NATIONAL INSTITUTES OF HEALTH

CUMULATED INDEX MEDICUS

1997

VOLUME 38 BOOK 6

SUBJECT INDEX
Fim–His

U.S. DEPARTMENT OF HEALTH
AND HUMAN SERVICES
Public Health Service
National Institutes of Health

NATIONAL LIBRARY OF MEDICINE
8600 Rockville Pike
Bethesda, MD 20894
NIH Publication Number: 98-259

ISSN: 0090-1423

Cumulated Index Medicus

© All or portions of this publication are protected against copying or other reproduction outside of the United States in accordance with the provisions of Article II of the Universal Copyright Convention.

National Library of Medicine Cataloging in Publication

Cumulated Index medicus.
Vol. 1 (Jan.-Dec. 1960)-
--Chicago : American Medical Association ; Washington, D.C. : Supt. of Docs., U.S. G.P.O. [distributor], 1961-
v.

Vols. for 1971-1978 issued as DHEW publication ; no. (NIH) 72-259, etc.; for 1979- as NIH publication ; no. 80-259, etc.
Annual cumulation of the monthly issues of Index medicus.
Continues: Quarterly cumulative Index medicus.
Issues for 1967- include Bibliography of medical reviews.
Vols. for 1965- issued by the National Library of Medicine.

1. Bibliography of Medicine 2. Medicine - indexes I. American Medical Association II. National Library of Medicine (U.S.). III. Bibliography of medical reviews IV. Index medicus V. Series: DHEW publication ; no. (NIH) 72-259, etc. VI. Series: NIH publication ; no. 80-259, etc.

ISSN 0090-1423 = Cumulated Index medicus.

ZW 1 I384

This book is printed on acid-free paper for permanence.

Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 30, 1998.

For sale by the U.S. Government Printing Office
Superintendent of Documents, Mail Stop: SSOP, Washington, DC 20402-9328
ISBN 0-16-049542-3

CUMULATED INDEX MEDICUS 1997

CONTENTS

BOOK 1

Preface v
Index Medicus Citation Format vii
Introduction viii
Materials Indexed viii
The Indexing Operation viii
Subject Headings viii
Subject Heading Changes ix
Arrangement ix
Subject Section ix
Author Section xi
Bibliography of Medical Reviews xi
Access to Articles Cited xii
Interlibrary Loan Policy xii
Other Resources xiv
National Network of Libraries of Medicine xiv
International MEDLARS/MEDLINE Centers xv

MEDICAL SUBJECT HEADINGS (Contents) I-3
Medical Subject Headings 1

JOURNALS INDEXED Abbreviation Listing 1429
Full Title Listing 1529

BOOK 2 Subject Index **A-Ars** 1609

BOOK 3 Subject Index **Art-Cas** 3447

BOOK 4 Subject Index **Cat-De** 5280

BOOK 5 Subject Index **Df-Fil** 7174

BOOK 6 Subject Index **Fim-His** 9065

BOOK 7 Subject Index **Hit-Lh** 10920

BOOK 8 Subject Index **Li-Mu** 12782

BOOK 9 Subject Index **Mv-Pep** 14625

BOOK 10 Subject Index **Per-Rea** 16435

BOOK 11 Subject Index **Reb-St** 18189

BOOK 12 Subject Index **Su-Z** 20080

BOOK 13 Author Index **A-Dif** 21921

BOOK 14 Author Index **Dig-Jeq** 23938

BOOK 15 Author Index **Jer-Mor** 25951

BOOK 16 Author Index **Mos-She** 27971

BOOK 17 Author Index **Shf-Z** 29991

BOOK 18 Bibliography of Medical Reviews **A-H** 1

BOOK 19 Bibliography of Medical Reviews **I-Z** 1177

Ophthalmic Surg Lasers 1997 Feb;28(2):151–5

Use of a special device for the treatment of overfiltration after glaucoma filtering surgery. Cennamo G, et al. **Ophthalmologica** 1997;211(2):61–5

Blebitis, early endophthalmitis, and late endophthalmitis after glaucoma-filtering surgery. Ciulla TA, et al. **Ophthalmology** 1997 Jun;104(6):986–95

Delayed-onset endophthalmitis associated with conjunctival filtering blebs. Kangas TA, et al. **Ophthalmology** 1997 May; 104(5):746–52

Hypotony maculopathy after filtering surgery with mitomycin C. Incidence and treatment. Suñer IJ, et al. **Ophthalmology** 1997 Feb;104(2):207–14; discussion 214–5

Postsurgical hypotony: relationship to fistulization, inflammation, chorioretinal lesions, and the vitreous. Schubert HD. **Surv Ophthalmol** 1996 Sep–Oct;41(2):97–125 (331 ref.)

[An experimental study on homoharringtonine and glaucoma surgery] Peng D, et al. **Yen Ko Hsueh Pao** 1995 Jun; 11(2):76–9 (Eng. Abstr.) **(Chi)**

INSTRUMENTATION

Topical cyclosporine and glaucoma drainage implant surgery in rabbits. Park KH, et al. **Ophthalmic Surg Lasers** 1996 Jun;27(6):452–8

Long-term results of Krupin–Denver valve implants in filtering surgery for neovascular glaucoma. Mastropasqua L, et al. **Ophthalmologica** 1996;210(4):203–6

In vitro flow testing of glaucoma drainage devices. Porter JM, et al. **Ophthalmology** 1997 Oct;104(10):1701–7

[How successful is the filtering bleb "needling"?] Meyer JH, et al. **Klin Monatsbl Augenheilkd** 1997 Apr;210(4):192–6 (Eng. Abstr.) **(Ger)**

METHODS

Clinical evaluation of the effect of mitomycin-C in re-operation for primary open angle glaucoma. Andreanos D, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):49–54

Resiting Molteno implant tubes. Billson F, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):801–3

The trabeculum as a drain in aphakic glaucoma. Devin F, et al. **Ophthalmologica** 1997;211(1):21–4

Long-term effects of tube-shunt procedures on management of refractory childhood glaucoma. Eid TE, et al. **Ophthalmology** 1997 Jun;104(6):1011–6

[Surgical effects of trabeculotomy combined with sinusotomy in advanced glaucoma patients controlled in normal intraocular pressure of 15 mmHg or higher] Mizoguchi T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Nov; 100(11):890–5 (Eng. Abstr.) **(Jpn)**

[Long-term surgical effects of trabeculotomy combined with sinusotomy] Mizoguchi T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Aug;100(8):611–6 (Eng. Abstr.) **(Jpn)**

STANDARDS

Is the standard approach to glaucoma therapy still appropriate? Jay JL, et al. **Can J Ophthalmol** 1996 Oct; 31(6):277–80; discussion 280–1 (41 ref.)

FILTRATION

Allergen reduction measures in houses of allergic asthmatic patients: effects of air-cleaners and allergen-impermeable mattress covers [see comments] van der Heide S, et al. **Eur Respir J** 1997 Jun;10(6):1217–23. Comment in: Eur Respir J 1997 Jun;10(6):1203–4.

Effectiveness of in-room air filtration and dilution ventilation for tuberculosis infection control. Miller-Leiden S, et al. **J Air Waste Manag Assoc** 1996 Sep;46(9):869–82

Isolation and identification of further peptides in the diafiltration retentate of the water-soluble fraction of Cheddar cheese. Singh TK, et al. **J Dairy Res** 1997 Aug; 64(3):433–43

Swine wastewater treatment by media filtration. Szögi AA, et al. **J Environ Sci Health B** 1997 Sep;32(5):831–43

Efficient removal of viruses by a novel polyvinylidene fluoride membrane filter. Roberts P. **J Virol Methods** 1997 Apr;65(1):27–31

Diffusive airflow integrity testing. Waibel PJ, et al. **PDA J Pharm Sci Technol** 1996 Sep–Oct;50(5):311–6

The microbiologic effect of gas filtration. Schneider TL, et al. **Retina** 1996;16(2):125–8

Determination of glucose levels using dried filter paper blood spots: new perspective in home monitoring. Ward LS, et al. **Rev Paul Med** 1996 Jan–Feb;114(1):1100–3

Negatively charged leucocyte filter significantly enhances kallikrein and thrombin-like activities of platelet concentrates. Krailadsiri P, et al. **Thromb Res** 1996 Sep 15;83(6):469–74

Release of carbon granules from cigarettes with charcoal filters. Pauly JL, et al. **Tob Control** 1997 Spring;6(1):33–40

[Double filtration and immunoadsorption plasmapheresis in Guillain-Barré syndrome] Kuwabara S, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):289–92 (Eng. Abstr.) **(Jpn)**

[Filtration of media for infusion-transfusion therapy as a measure of prevention of systemic inflammatory reaction in surgery using artificial blood circulation] Kozlov IA, et al. **Anesteziol Reanimatol** 1997 May–Jun;(3):21–6 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

Laboratory measurements of oil mist concentrations using filters and an electrostatic precipitator. Leith D, et al. **Am Ind Hyg Assoc J** 1996 Dec;57(12):1137–41

Using the Pall HME Filter as an oxygen therapy device in recovery room [letter] Chui PT, et al. **Anaesth Intensive Care** 1996 Aug;24(4):514

Anaesthetic machine and breathing system contamination and the efficacy of bacterial/viral filters. Hogarth I. **Anaesth Intensive Care** 1996 Apr;24(2):154–63 (74 ref.)

Barriers to hepatitis C transmission within breathing systems: efficacy of a pleated hydrophobic filter. Lloyd G, et al. **Anaesth Intensive Care** 1997 Jun;25(3):235–8

End-tidal carbon dioxide measurement and breathing system filters. Hardman JG, et al. **Anaesthesia** 1997 Jul;52(7):646–8

An automated high throughput filtration assay: application to polymerase inhibitor identification. Wu P, et al. **Anal Biochem** 1997 Feb 15;245(2):226–30

Scanning electron microscope sizing of airborne fibre samples: a preliminary investigation into the effects of the variable inclination of fibres to filter surfaces. McIntosh C, et al. **Ann Occup Hyg** 1996 Feb;40(1):45–55

Techniques for colony DNA hybridization and protein immunoassays for a broad spectrum of yeast genera. Palková Z, et al. **Biotechniques** 1996 Dec;21(6):982, 984, 986

Rapid removal of platelets from plasma utilizing the Hepcheck heparin removal filter. McGlasson DL, et al. **Blood Coagul Fibrinolysis** 1997 Jan;8(1):16–20

Demonstration of a combined filter to improve the field uniformity of a 90 kV superficial X-ray therapy machine for different treatment field sizes. Meyer J, et al. **Br J Radiol** 1997 Feb;70:201–6

Short communication: kilovoltage measurement with rhodium target and filters on mammography X-ray machines. Underwood AC, et al. **Br J Radiol** 1996 Aug; 69(824):769–73

Serum S-100 protein concentration after cardiac surgery: a randomized trial of arterial line filtration. Taggart DP, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):645–9

Added copper filtration in digital paediatric double-contrast colon examinations: effects on radiation dose and image quality. Hansson B, et al. **Eur Radiol** 1997;7(7):1117–22

Mobile high-efficiency-filter air cleaners. **Health Devices** 1997 Jun;26(6):228–45

Brita water filters [letter; comment] Couric CM. **Infect Control Hosp Epidemiol** 1996 Jun;17(6):347–8. Comment on: Infect Control Hosp Epidemiol 1995 Aug;16(8):440–1.

Utilization of DNA as functional materials: preparation of filters containing DNA insolubilized with alginic acid gel. Iwata K, et al. **Int J Biol Macromol** 1996 Feb; 18(1–2):149–50

Comparison of platelet loss during leukocyte reduction at 4, 24, and 48 hours postcollection using a Closed System Apheresis Kit with Integral filter. Jin YS, et al. **J Clin Apheresis** 1997;12(1):14–7

The potential for catheter microbial contamination from a needleless connector. Brown JD, et al. **J Hosp Infect** 1997 Jul;36(3):181–9

A new tracheostomy filter [letter] Jones AS, et al. **Lancet** 1997 Feb 22;349(9051):544

Use of sheet color filters for video-endoscopic observation during intraluminal photodynamic therapy. Marijnissen JP, et al. **Lasers Surg Med** 1996;18(1):96–9

Improved dose distribution with a universal acrylic breast compensator. Johnson JM, et al. **Med Dosim** 1996 Fall; 21(3):127–32

Use of protective filters by fluorescein angiography nursing staff. Virgili G, et al. **Optom Vis Sci** 1996 Jan;73(1):65

Analysis and evaluation of filter cartridge extractables for validation in pharmaceutical downstream processing. Reif OW, et al. **PDA J Pharm Sci Technol** 1996 Nov–Dec; 50(6):399–410

Using compensating filters to reduce radiation dose. Katsuda T, et al. **Radiol Technol** 1996 Sep–Oct;68(1):18–22

An improved process for development and testing of vena caval filters: the percutaneous steel Greenfield filter. Greenfield LJ, et al. **Surgery** 1997 Jan;121(1):50–7

Evaluation of a new prestorage leukoreduction filter for red blood cell units. AuBuchon JP, et al. **Vox Sang** 1997; 72(2):101–6

Leukocyte filtration of single-donor platelet units through an integrated filter system for the Fresenius AS 104 blood cell separator. Moog R, et al. **Vox Sang** 1997;72(2):107–10

Effectiveness of leukocyte filters in reducing tumor cell contamination after intraoperative blood salvage in lung cancer patients. Perseghin P, et al. **Vox Sang** 1997; 72(4):221–4

[Hearing impairment fitting: study of an auditory prosthesis with 7 entirely programmable filters] Chouard CH. **Bull Acad Natl Med** 1997 Feb;181(2):275–86; discussion 286–7 (Eng. Abstr.) **(Fre)**

[Improvement of a filter and the effect on the TECHNEGAS leakage] Komatani A, et al. **Kaku Igaku** 1997 Jun; 34(6):385–8 (Eng. Abstr.) **(Jpn)**

[Study of X-ray filter and peak kilovoltage in Fuji Computed Radiography in regard to the detection of simulated pulmonary nodules] Kiyono K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1126–35 (Eng. Abstr.) **(Jpn)**

METHODS

Immunobead filtration: a novel approach for the isolation and propagation of tumor cells. Rye PD, et al. **Am J Pathol** 1997 Jan;150(1):99–106

Accelerated detection of DNA on membranes by automated enzyme-linked immunofiltration assay. Aubert D, et al. **Anal Biochem** 1997 Apr 5;247(1):25–9

A filter elution assay for the simultaneous detection of DNA double and single strand breaks. Lu J, et al. **Anal Biochem** 1996 Mar 15;235(2):227–33

A 96-well plate protein assay for samples containing sodium dodecyl sulfate and reducing agent using the multiscreen nitrocellulose filtration plate with amido black. Mahoney CW, et al. **Anal Biochem** 1997 May 15;248(1):182–4

Immunofiltration purification for urinary leukotriene E4 quantitation. Westcott JY, et al. **Anal Biochem** 1997 Jun 1;248(2):202–10

An automated high throughput filtration assay: application to polymerase inhibitor identification. Wu P, et al. **Anal Biochem** 1997 Feb 15;245(2):226–30

Comparison between swim-up and glass wool column filtration of human semen in a gamete intrafallopian transfer program. Sanchez Sarmiento CA, et al. **Arch Androl** 1996 Mar–Apr;36(2):155–60

In-line leukocyte filtration during bypass. Clinical results from a randomized prospective trial. Lust RM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M819–22

Evaluation of anti-viral filters. Hughes B, et al. **Dev Biol Stand** 1996;88:91–8 (3 ref.)

Removal of virus through novel membrane filtration method. Manabe S. **Dev Biol Stand** 1996;88:81–90

Cell transfer by filtration: evaluation of protocols for transformational competence. Williams P, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):183–7

Change in hemorrheological and biochemical parameters following membrane differential filtration. Brunner R, et al. **Int J Artif Organs** 1995 Dec;18(12):794–8

Screening of biofiltering material for VOC treatment. Chou MS, et al. **J Air Waste Manag Assoc** 1997 Jun;47(6):674–81

Filtration of bacteria and yeast by ultrasound-enhanced sedimentation. Hawkes JJ, et al. **J Appl Microbiol** 1997 Jan;82(1):39–47

Effects of in-line filtration on lipid particle size distribution in total nutrient admixtures. Driscoll DF, et al. **JPEN J Parenter Enteral Nutr** 1996 Jul–Aug;20(4):296–301

Dried blood spots collected on filter paper: an international resource for the diagnosis and genetic characterization of human immunodeficiency virus type-1. Cassol SA, et al. **Mem Inst Oswaldo Cruz** 1996 May–Jun;91(3):351–8

Tetanus toxoid purification: a case study. Vancetto MD, et al. **Nat Biotechnol** 1997 Aug;15(8):807–8

Cerebrospinal fluid filtration in a case of severe pneumococcal meningitis. Brizzi M, et al. **Scand J Infect Dis** 1996;28(5):455–8

[Clinical and immunological effects of leukapheresis therapy using cotton-wool filter for patients with rheumatoid arthritis] Takeda M. **Ryumachi** 1996 Jun;36(3):493–502 (Eng. Abstr.) **(Jpn)**

FILTRATION SURGERY see **FILTERING SURGERY**

FILUM TERMINALE see **CAUDA EQUINA**

FIMBRIAE, BACTERIAL

see related
ADHESINS, BACTERIAL

The FimH protein of type 1 fimbriae. An adaptable adhesin. Klemm P, et al. **Adv Exp Med Biol** 1996;408:193–5 (5 ref.)

Transferred nuclear Overhauser effect spectroscopy study of a peptide from the PapG pilus subunit bound by the Escherichia coli PapD chaperone. Walse B, et al. **FEBS Lett** 1997 Jul 21;412(1):115–20

SEF17 fimbriae are essential for the convoluted colonial morphology of Salmonella enteritidis. Allen-Vercoe E, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):33–42

Type-4 pili: biogenesis, adhesins, protein export and DNA import. Proceedings of a workshop. Rottach-Egern, Germany, 26–29 November 1995. **Gene** 1997 Jun 11; 192(1):1–198

Active sites of salivary proline-rich protein for binding to Porphyromonas gingivalis fimbriae. Kataoka K, et al. **Infect Immun** 1997 Aug;65(8):3159–64

Role of fimbriae in Porphyromonas gingivalis invasion of gingival epithelial cells. Weinberg A, et al. **Infect Immun** 1997 Jan;65(1):313–6

The Tra2 core of the IncP(alpha) plasmid RP4 is required for intergeneric mating between Escherichia coli and Streptomyces lividans. Giebelhaus LA, et al. **J Bacteriol** 1996 Nov;178(21):6378–81

Identification and localization of the Tgl protein, which is required for Myxococcus xanthus social motility. Rodriguez-Soto JP, et al. **J Bacteriol** 1997 Jul; 179(13):4372–81

The tgl gene: social motility and stimulation in Myxococcus xanthus. Rodriguez-Soto JP, et al. **J Bacteriol** 1997 Jul; 179(13):4361–71

Influence of subinhibitory concentrations of ceftazidime, ciprofloxacin and azithromycin on the morphology and adherence of P-fimbriated escherichia coli. Vranes J, et al. **J Chemother** 1996 Aug;8(4):254–60

Relatedness and phylogeny within the family of periplasmic

chaperones involved in the assembly of pili or capsule-like structures of gram-negative bacteria. Bonci A, et al. **J Mol Evol** 1997 Mar;44(3):299–309

Presence of F18ac (2134P) fimbriae on 4P- Escherichia coli isolates from weaned pigs with diarrhea. Dean-Nystrom EA, et al. **J Vet Diagn Invest** 1997 Jan;9(1):77–9

Localization of the in vivo expression of P and F1 fimbriae in chickens experimentally inoculated with pathogenic Escherichia coli. Pourbakhsh SA, et al. **Microb Pathog** 1997 Jun;22(6):331–41

Fimbriae extracts from enterotoxigenic Escherichia coli strains of bovine and porcine origin with K99 and/or F41 antigens. Vázquez F, et al. **Vet Microbiol** 1996 Feb; 48(3–4):231–41

[Mechanism and results of bacterial adhesion in urinary tract infections] Roberts JA. **Kansenshogaku Zasshi** 1996 Nov; 70(11):1127–32 **(Jpn)**

CHEMISTRY

Fimbrial adhesins of Salmonella typhimurium. Role in bacterial interactions with epithelial cells. Bäumler AJ, et al. **Adv Exp Med Biol** 1997;412:149–58 (56 ref.)

Posttranslational modifications of meningococcal pili. Identification of a common trisaccharide substitution on variant pilins of strain C311. Virji M, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:53–64

Isolation and characterization of fimbriae from a sparsely fimbriated strain of Porphyromonas gingivalis. Sojar HT, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2318–23

Fimbrial adhesins: similarities and variations in structure and biogenesis. Smyth CJ, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):127–39 (65 ref.)

Occurrence of S and F1C/S-related fimbrial determinants and their expression in Escherichia coli strains isolated from extraintestinal infections. Sokolowska-Köhler W, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):1–6

Structural studies on the Escherichia coli O101 lipopolysaccharide found in association with F41 and K99 fimbriae. Karamanos Y, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):221–5

Type-4 pilus-structure: outside to inside and top to bottom—a minireview. Forest KT, et al. **Gene** 1997 Jun 11;192(1):165–9 (13 ref.)

The type-4 pilus is the major virulence-associated adhesin of Pseudomonas aeruginosa—a review. Hahn HP. **Gene** 1997 Jun 11;192(1):99–108 (64 ref.)

Post-translational modifications of meningococcal pili. Identification of common substituents: glycans and alpha-glycerophosphate—a review. Virji M. **Gene** 1997 Jun 11;192(1):141–7 (42 ref.)

Type-4 pili of Kingella denitrificans. Weir S, et al. **Gene** 1997 Jun 11;192(1):171–6

Identification, purification, and characterization of the type 4 fimbriae of Pasteurella multocida. Ruffolo CG, et al. **Infect Immun** 1997 Jan;65(1):339–43

Identification of two minor subunits in the pilus of Haemophilus influenzae. McCrea KW, et al. **J Bacteriol** 1997 Jul;179(13):4227–31

Characterization of a type IV bundle-forming pilus (SFP) from a gastroenteritis-associated strain of Aeromonas veronii biovar sobria. Kirov SM, et al. **Microb Pathog** 1996 Jul;21(1):23–34

Sequence and product analyses of the four genes downstream from the fimbrilin gene (fimA) of the oral anaerobe Porphyromonas gingivalis. Watanabe K, et al. **Microbiol Immunol** 1996;40(10):725–34

High-performance liquid chromatographic separation of Porphyromonas gingivalis fimbriae. Sojar HT, et al. **Protein Expr Purif** 1997 Feb;9(1):49–52

Epigenetic phase variation of the pap operon in Escherichia coli. van der Woude M, et al. **Trends Microbiol** 1996 Jan; 4(1):5–9 (39 ref.)

DRUG EFFECTS

Tamm-Horsfall protein inhibits binding of S- and P-fimbriated Escherichia coli to human renal tubular epithelial cells. Leeker A, et al. **Exp Nephrol** 1997 Jan–Feb; 5(1):38–46

Effect of antimicrobial agents on the piliation of Pseudomonas aeruginosa and adherence to mouse tracheal epithelium. Yamasaki T, et al. **J Chemother** 1997 Feb; 9(1):32–7

GENETICS

Characterization of the agfBA fimbrial operon encoding thin aggregative fimbriae of Salmonella enteritidis. Collinson SK, et al. **Adv Exp Med Biol** 1997;412:247–8

Genes involved in the biogenesis and function of type-4 fimbriae in Pseudomonas aeruginosa. Alm RA, et al. **Gene** 1997 Jun 11;192(1):89–98

Molecular genetic analysis of type-4 pilus biogenesis and twitching motility using Pseudomonas aeruginosa as a model system—a review. Darzins A, et al. **Gene** 1997 Jun 11;192(1):109–15 (56 ref.)

Translocation failure in a type-4 pilin operon: rfb and tcpT mutants in Vibrio cholerae. Iredell JR, et al. **Gene** 1997 Jun 11;192(1):71–7

The tcp gene cluster of Vibrio cholerae. Manning PA. **Gene** 1997 Jun 11;192(1):63–70

The molecular genetics of type-4 fimbriae in Pseudomonas aeruginosa—a review. Mattick JS, et al. **Gene** 1996 Nov 7;179(1):147–55 (70 ref.)

Uptake and processing of DNA by Acinetobacter calcoaceticus—a review. Palmen R, et al. **Gene** 1997 Jun 11;192(1):179–90 (72 ref.)

Functional expression of heterologous type 4 fimbriae in Pseudomonas aeruginosa. Watson AA, et al. **Gene** 1996 Oct 10;175(1–2):143–50

Identification of a gene, pilF, required for type 4 fimbrial biogenesis and twitching motility in Pseudomonas aeruginosa. Watson AA, et al. **Gene** 1996 Nov 21; 180(1–2):49–56

Proteus mirabilis mannose-resistant, Proteus-like fimbriae: MrpG is located at the fimbrial tip and is required for fimbrial assembly. Li X, et al. **Infect Immun** 1997 Apr; 65(4):1327–34

Proteus mirabilis ambient-temperature fimbriae: cloning and nucleotide sequence of the aft gene cluster. Massad G, et al. **Infect Immun** 1996 Oct;64(10):4390–5

Characterization of the fim2 and fim3 fimbrial subunit genes of Bordetella bronchiseptica: roles of Fim2 and Fim3 fimbriae and flagella in adhesion. Savelkoul PH, et al. **Infect Immun** 1996 Dec;64(12):5098–105

Contribution of horizontal gene transfer and deletion events to development of distinctive patterns of fimbrial operons during evolution of Salmonella serotypes. Bäumler AJ, et al. **J Bacteriol** 1997 Jan;179(2):317–22

Transcriptional control of genes encoding CS1 pili: negative regulation by a silencer and positive regulation by Rns. Murphree D, et al. **J Bacteriol** 1997 Sep;179(18):5736–43

Characterization of the fimA gene encoding bundle-forming fimbriae of the plant pathogen Xanthomonas campestris pv. vesicatoria. Ojanen-Reuhs T, et al. **J Bacteriol** 1997 Feb;179(4):1280–90

Duplication of pilus gene complexes of Haemophilus influenzae biogroup aegyptius. Read TD, et al. **J Bacteriol** 1996 Nov;178(22):6564–70

Use of an alkaline phosphatase-conjugated oligonucleotide probe for the gene encoding the bundle-forming pilus of enteropathogenic Escherichia coli. Nagayama K, et al. **J Clin Microbiol** 1996 Nov;34(11):2819–21

Mutations in the f165(1)A and f165(1)E fimbrial genes and regulation of their expression in an Escherichia coli strain causing septicemia in pigs. Daigle F, et al. **Microb Pathog** 1997 Apr;22(4):247–52

Isolation and characterization of chromosomal mTn 10 insertion mutations affecting K88 fimbriae production in Escherichia coli. Huisman TT, et al. **Microb Pathog** 1996 Feb;20(2):101–8

Characterization of F18 fimbrial genes fedE and fedF involved in adhesion and length of enterotoxemic Escherichia coli strain 107/86. Imberechts H, et al. **Microb Pathog** 1996 Sep;21(3):183–92

Restriction fragment length polymorphism of PCR amplified papE gene products is correlated with complete serotype among uropathogenic Escherichia coli isolates. Jantausch BA, et al. **Microb Pathog** 1996 Jun;20(6):351–60

P-fimbriae-producing septicaemic Escherichia coli from poultry possess fel-related gene clusters whereas pap-hybridizing P-fimbriae-negative strains have partial or divergent P fimbrial gene clusters. Dozois CM, et al. **Microbiology** 1996 Oct;142 (Pt 10):2759–66

Authentic display of a cholera toxin epitope by chimeric type 1 fimbriae: effects of insert position and host background. Stentebjerg-Olesen B, et al. **Microbiology** 1997 Jun;143 (Pt 6):2027–38

Fimbrial biogenesis genes of Pseudomonas aeruginosa: pilW and pilX increase the similarity of type 4 fimbriae to the GSP protein-secretion systems and pilY1 encodes a gonococcal PilC homologue. Aim RA, et al. **Mol Microbiol** 1996 Oct;22(1):161–73

An environmentally regulated pilus-like appendage involved in Campylobacter pathogenesis. Dolg P, et al. **Mol Microbiol** 1996 May;20(4):885–94

Cloning of an Aeromonas hydrophila type IV pilus biogenesis gene cluster: complementation of pilus assembly functions and characterization of a type IV leader peptidase/N-methyltransferase required for extracellular protein secretion. Pepe CM, et al. **Mol Microbiol** 1996 Feb; 19(4):857–69

The bundle-forming pili of enteropathogenic Escherichia coli: transcriptional regulation by environmental signals. Puente JL, et al. **Mol Microbiol** 1996 Apr;20(1):87–100

PilC of Neisseria meningitidis is involved in class II pilus formation and restores pilus assembly, natural transformation competence and adherence to epithelial cells in PilC-deficient gonococci. Ryll RR, et al. **Mol Microbiol** 1997 Mar;23(5):879–92

A cluster of fourteen genes from enteropathogenic Escherichia coli is sufficient for the biogenesis of a type IV pilus. Stone KD, et al. **Mol Microbiol** 1996 Apr; 20(2):325–37

Cloning and characterization of bfpTVW, genes required for the transcriptional activation of bfpA in enteropathogenic Escherichia coli [see comments] Tobe T, et al. **Mol Microbiol** 1996 Sep;21(5):963–75. Comment in: Mol Microbiol 1997 Jan;23(1):179–81.

Opc- and pilus-dependent interactions of meningococci with human endothelial cells: molecular mechanisms and modulation by surface polysaccharides. Virji M, et al. **Mol Microbiol** 1995 Nov;18(4):741–54

In vivo phase variation of MR/P fimbrial gene expression in Proteus mirabilis infecting the urinary tract. Zhao H, et al. **Mol Microbiol** 1997 Mar;23(5):1009–19

An Escherichia coli CS31A fibrillum chimera capable of inducing memory antibodies in outbred mice following booster immunization with the entero-pathogenic coronavirus transmissible gastroenteritis virus. Der Vartanian M, et al. **Vaccine** 1997 Feb;15(2):111–20

[Genetically strange Borrelia and conservation of genes associated with motility in Lyme disease Borrelia] Yanagihara Y, et al. **Nippon Saikingaku Zasshi** 1996 Oct; 51(4):1015–24 (14 ref.) **(Jpn)**

IMMUNOLOGY

Fimbriae-mediated adherence induces mucosal inflammation and bacterial clearance. Consequences for anti-adhesion therapy. Connell H, et al. **Adv Exp Med Biol** 1996; 408:73–80 (43 ref.)

A three-receptor model for the interaction of the K88 fimbrial adhesin variants of Escherichia coli with porcine intestinal epithelial cells. Erickson AK, et al. **Adv Exp Med Biol** 1997;412:167–73

Adhesion and invasion of Escherichia coli. Studies on function and regulation. Oelschlaeger TA, et al. **Adv Exp Med Biol** 1996;408:57–62 (29 ref.)

Studies on the molecular mechanisms of meningococcal interactions with human cells. Towards anti-adhesion measures for the control of meningococcal disease. Virji M. **Adv Exp Med Biol** 1996;408:113–22 (40 ref.)

Effect of adjuvants on antibody responses of sheep immunised with recombinant pili from Dichelobacter nodosus. Walduck AK, et al. **Aust Vet J** 1996 Dec;74(6):451–5

Antigenic characterization of fimbria preparations from Streptococcus mutans isolates from caries-free and caries-susceptible subjects. Perrone M, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):291–6

Reduced intestinal colonisation with F18-positive enterotoxigenic Escherichia coli in weaned pigs fed chicken egg antibody against the fimbriae. Zúñiga A, et al. **FEMS Immunol Med Microbiol** 1997 Jul;18(3):153–61

A new putative fimbrial colonization factor, CS19, of human enterotoxigenic Escherichia coli. Grewal HM, et al. **Infect Immun** 1997 Feb;65(2):507–13

Identification and characterization of S fimbria-binding sialoglycoproteins on brain microvascular endothelial cells. Prasadarao NV, et al. **Infect Immun** 1997 Jul;65(7):2852–60

Induction of protective immunity after escherichia coli bladder infection in primates. Dependence of the globoside-specific P-fimbrial tip adhesin and its cognate receptor. Söderhäll M, et al. **J Clin Invest** 1997 Jul 15; 100(2):364–72

Aeromonas trota strains, which agglutinate with Vibrio cholerae O139 Bengal antiserum, possess a serologically distinct fimbrial colonization factor. Nakasone N, et al. **Microbiology** 1996 Feb;142 (Pt 2):309–13

Questions about gonococcal pilus phase- and antigenic variation. Seifert HS. **Mol Microbiol** 1996 Aug;21(3):433–40 (54 ref.)

Chicken egg yolk antibodies against F18ab fimbriae of Escherichia coli inhibit shedding of F18 positive E. coli by experimentally infected pigs. Imberechts H, et al. **Vet Microbiol** 1997 Mar;54(3–4):329–41

Role of fimbriae F18 for actively acquired immunity against porcine enterotoxigenic Escherichia coli. Sarrazin E, et al. **Vet Microbiol** 1997 Feb;54(2):133–44

Characterisation of monoclonal antibodies specific to SEF 21 fimbriae of Salmonella enteritidis and their reactivity with other Salmonellae and Enterobacteria. Sojka MG, et al. **Vet Microbiol** 1996 Feb;48(3–4):207–21

METABOLISM

PapG adhesin from E. coli J96 recognizes the same saccharide epitope when present on whole bacteria and as isolated protein. Nilsson U, et al. **Bioorg Med Chem** 1996 Nov;4(11):1809–17

Plant transformation: a pilus in Agrobacterium T-DNA transfer. Baron C, et al. **Curr Biol** 1996 Dec 1;6(12):1567–9 (12 ref.)

Salmonella enterica var Typhimurium and Salmonella enterica var Enteritidis express type 1 fimbriae in the rat in vivo. Ewen SW, et al. **FEMS Immunol Med Microbiol** 1997 Jul;18(3):185–92

Molecular and structural aspects of fimbriae biosynthesis and assembly in Escherichia coli. Mol O, et al. **FEMS Microbiol Rev** 1996 Oct;19(1):25–52 (239 ref.)

Biogenesis of the bundle-forming pilus of enteropathogenic Escherichia coli: reconstitution of fimbriae in recombinant E. coli and role of DsbA in pilin stability—a review. Donnenberg MS, et al. **Gene** 1997 Jun 11;192(1):33–8 (62 ref.)

Binding and transport of transforming DNA by Bacillus subtilis: the role of type-IV pilin-like proteins—a review. Dubnau D. **Gene** 1997 Jun 11;192(1):191–8 (56 ref.)

Transformation competence and type-4 pilus biogenesis in Neisseria gonorrhoeae—a review. Fussenegger M, et al. **Gene** 1997 Jun 11;192(1):125–34 (93 ref.)

Longus pilus of enterotoxigenic Escherichia coli and its relatedness to other type-4 pili—a minireview. Girón JA, et al. **Gene** 1997 Jun 11;192(1):39–43 (28 ref.)

Structure-function relationship of type-IV prepilin peptidase of Pseudomonas aeruginosa—a review. Lory S, et al. **Gene** 1997 Jun 11;192(1):117–21 (26 ref.)

Filamentous phage assembly: variation on a protein export theme. Russel M, et al. **Gene** 1997 Jun 11;192(1):23–32 (62 ref.)
The pilus colonization factor of pathogenic neisserial species: organelle biogenesis and structure/function relationships—a review. Tønjum T, et al. **Gene** 1997 Jun 11;192(1):155–63 (90 ref.)
Porphyromonas gingivalis fimbria–stimulated bone resorption is inhibited through binding of the fimbriae to fibronectin. Kawata Y, et al. **Infect Immun** 1997 Feb;65(2):815–7
Binding of the type 3 fimbriae of Klebsiella pneumoniae to human endothelial and urinary bladder cells. Tarkkanen AM, et al. **Infect Immun** 1997 Apr;65(4):1546–9
Secretion of type–1–fimbriae binding proteins from human neutrophil granulocytes. Karlsson A, et al. **Inflammation** 1996 Aug;20(4):389–400
Outer membrane translocation arrest of the TcpA pilin subunit in rfb mutants of Vibrio cholerae O1 strain 569B. Iredell JR, et al. **J Bacteriol** 1997 Mar;179(6):2038–46
BfpB, an outer membrane lipoprotein required for the biogenesis of bundle–forming pili in enteropathogenic Escherichia coli. Ramer SW, et al. **J Bacteriol** 1996 Nov; 178(22):6555–63
Biological relationship between F18ab and F18ac fimbriae of enterotoxigenic and verotoxigenic Escherichia coli from weaned pigs with oedema disease or diarrhoea. Nagy B, et al. **Microb Pathog** 1997 Jan;22(1):1–11
Levels of Porphyromonas gingivalis Fimbriae and inflammatory cytokines in gingival crevicular fluid from adult human subjects. Hirose K, et al. **Microbiol Immunol** 1997;41(1):21–6
Interaction of a rat intestinal brush border membrane glycoprotein with type–1 fimbriae of Salmonella typhimurium. Ghosh S, et al. **Mol Cell Biochem** 1996 May 24;158(2):125–31
Traversal of a polarized epithelium by pathogenic Neisseriae: facilitation by type IV pili and maintenance of epithelial barrier function. Merz AJ, et al. **Mol Med** 1996 Nov; 2(6):745–54
Adherence of Porphyromonas gingivalis to matrix proteins via a fimbrial cryptic receptor exposed by its own arginine–specific protease. Kontani M, et al. **Mol Microbiol** 1997 Jun;24(6):1179–87
The N–terminal beta–barrel domain of the Escherichia coli K88 periplasmic chaperone FaeE determines fimbrial subunit recognition and dimerization. Mol O, et al. **Mol Microbiol** 1996 Oct;22(2):379–88
Genetic and functional evidence that Type IV pili are required for social gliding motility in Myxococcus xanthus. Wu SS, et al. **Mol Microbiol** 1995 Nov;18(3):547–58
DsbA is required for stability of the type IV pilin of enteropathogenic escherichia coli. Zhang HZ, et al. **Mol Microbiol** 1996 Aug;21(4):787–97
Role of pili in Haemophilus influenzae adherence to, and internalization by, respiratory cells. Gilsdorf JR, et al. **Pediatr Res** 1996 Feb;39(2):343–8
Cyclic AMP and its receptor protein negatively regulate the coordinate expression of cholera toxin and toxin–coregulated pilus in Vibrio cholerae. Skorupski K, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):265–70
Adhesive properties of P–like fimbriae in Klebsiella–species. Przondo–Mordarska A, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):372–7

PHYSIOLOGY

Fimbrial colonisation factors F18ab and F18ac of Escherichia coli isolated from pigs with postweaning diarrhea and edema disease. Imberechts H, et al. **Adv Exp Med Biol** 1997; 412:175–83
Expression of colonization factor antigen I fimbriae by enterotoxigenic Escherichia coli; influence of growth conditions and a recombinant positive regulatory gene. Halvorsen T, et al. **APMIS** 1997 Mar;105(3):247–54
Adhesion of bovine enterotoxigenic Escherichia coli (ETEC) by type 1–like fimbriae. Catani CF, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):241–5
Type–4 pili and meningococcal adhesiveness. Nassif X, et al. **Gene** 1997 Jun 11;192(1):149–53 (28 ref.)
Domains within the Vibrio cholerae toxin coregulated pilin subunit that mediate bacterial colonization. Sun D, et al. **Gene** 1997 Jun 11;192(1):79–85
Fimbriae and the hemagglutinating adhesin HA–Ag2 mediate adhesion of Porphyromonas gingivalis to epithelial cells. Du L, et al. **Infect Immun** 1997 Sep;65(9):3875–81
Role of pili in Haemophilus influenzae adherence and colonization. Gilsdorf JR, et al. **Infect Immun** 1997 Aug; 65(8):2997–3002 (75 ref.)
Porphyromonas gingivalis fimbria–stimulated bone resorption is inhibited through binding of the fimbriae to fibronectin. Kawata Y, et al. **Infect Immun** 1997 Feb;65(2):815–7
A role for fimbriae in Porphyromonas gingivalis invasion of oral epithelial cells. Njoroge T, et al. **Infect Immun** 1997 May;65(5):1980–4
Role of SefA subunit protein of SEF14 fimbriae in the pathogenesis of Salmonella enterica serovar Enteritidis. Ogunniyi AD, et al. **Infect Immun** 1997 Feb;65(2):708–17
Synthesis and function of Actinomyces naeslundii T14V type 1 fimbriae require the expression of additional fimbria–associated genes. Yeung MK, et al. **Infect Immun** 1997 Jul;65(7):2629–39
A specific protease encoded by the conjugative DNA transfer systems of IncP and Ti plasmids is essential for pilus synthesis. Haase J, et al. **J Bacteriol** 1997 Sep; 179(18):5728–35
Development of experimental model of chronic pyelonephritis with Escherichia coli O75:K5:H–bearing Dr fimbriae: mutation in the dra region prevented tubulointerstitial nephritis. Goluszko P, et al. **J Clin Invest** 1997 Apr 1;99(7):1662–72
Prophyromonas gingivalis fimbriae mediate coaggregation with Streptococcus oralis through specific domains. Amano A, et al. **J Dent Res** 1997 Apr;76(4):852–7
Role of type–1 fimbriae in the pathogenesis of chronic pyelonephritis in relation to reactive oxygen species. Gupta R, et al. **J Med Microbiol** 1997 May;46(5):403–6
Molecular evidence for pap–G specific adhesion of Escherichia coli to human renal cells. Söderhäll M, et al. **J Urol** 1997 Jan;157(1):346–50
PilC of Neisseria meningitidis is involved in class II pilus formation and restores pilus assembly, natural transformation competence and adherence to epithelial cells in PilC–deficient gonococci. Ryll RR, et al. **Mol Microbiol** 1997 Mar;23(5):879–92
Influence of pili, fibrils, and capsule on in vitro adherence by Haemophilus influenzae type b. St. Geme JW 3rd, et al. **Mol Microbiol** 1996 Jul;21(1):21–31
Assembly proteins of CS1 pili of enterotoxigenic Escherichia coli. Sakellaris H, et al. **Mol Microbiol** 1996 Aug; 21(3):529–41
The Myxococcus xanthus pilT locus is required for social gliding motility although pili are still produced. Wu SS, et al. **Mol Microbiol** 1997 Jan;23(1):109–21
Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper. Bullitt E, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12890–5
Establishing communication via gram–negative bacterial pili. Kuehn MJ. **Trends Microbiol** 1997 Apr;5(4):130–2 (16 ref.)
Pili, peptidases and protein secretion: curious connections. Salmond GP. **Trends Microbiol** 1996 Dec;4(12):474–6
[Porphyromonas gingivalis fimbriae function as one of virulence factors] Hanazawa S, et al. **Nippon Saikingaku Zasshi** 1996 Aug;51(3):803–11 (13 ref.) **(Jpn)**

ULTRASTRUCTURE

Isolation and characterization of a minor fimbria from Porphyromonas gingivalis. Hamada N, et al. **Infect Immun** 1996 Nov;64(11):4788–94
Characterization of Shigella type 1 fimbriae: expression, FimA sequence, and phase variation. Snellings NJ, et al. **Infect Immun** 1997 Jun;65(6):2462–7
Three–dimensional structure of Bordetella pertussis fimbriae. Heck DV, et al. **J Struct Biol** 1996 Mar–Apr;116(2):264–9
Experimental infection of laying hens with Salmonella enteritidis strains that express different types of fimbriae. Thiagarajan D, et al. **Poult Sci** 1996 Nov;75(11):1365–72
Symmetries in bacterial motility. Berg HC. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14225–8
Haemophilus influenzae pili are composite structures assembled via the HifB chaperone. St. Geme JW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11913–8
Morphological evidence of a filamentous cilia–associated respiratory (CAR) bacillus in goats. Fernández A, et al. **Vet Pathol** 1996 Jul;33(4):445–7
[Ultrastructure of bacterial fimbriae in E. coli and Sh. flexneri] Baroni A. **Boll Ist Sieroter Milan** 1966 May–Jun; 45(5–6):273–8 **(Ita)**

VIROLOGY

[Characterization of B–type bacteriophages adsorbed on Pseudomonas aeruginosa pili] Zhilenkov EL, et al. **Mikrobiologiia** 1996 Jul–Aug;65(4):540–5 (Eng. Abstr.) **(Rus)**

FIMBRIAL ADHESINS see **ADHESINS, BACTERIAL**

FINANCIAL AUDIT

Canadian beef quality audit. Van Donkersgoed J, et al. **Can Vet J** 1997 Apr;38(4):217–25
Accounting. Is your back–office a backwater? Montague J. **Hosp Health Netw** 1996 Dec 5;70(23):72

CLASSIFICATION

Finance. Measuring up [news] **Hosp Health Netw** 1997 May 5;71(9):10

LEGISLATION & JURISPRUDENCE

At least five IMS members involved.... Medicare audits underway [news] **Iowa Med** 1996 Oct;86(8):315

METHODS

Risk analysis in the valuation of medical practices. Nanda S, et al. **Health Care Manage Rev** 1996 Fall;21(4):26–32
Physician–hospital transactions: developing a process for handling valuation–related issues. Becker S, et al. **J Health Care Finance** 1996 Winter;23(2):19–31
Auditing the Medicare–billing practices of teaching physicians—welcome accountability, unfair approach. Cohen JJ, et al. **N Engl J Med** 1997 May 1;336(18):1317–20

FINANCIAL INSOLVENCY see **BANKRUPTCY**

FINANCIAL MANAGEMENT

see related
INCOME

Endowments and financing academic medicine [letter] Murden RA, et al. **Acad Med** 1997 Mar;72(3):162
Determining the size of a total purchasing site to manage the financial risks of rare costly referrals: computer simulation model [see comments] Bachmann MO, et al. **BMJ** 1996 Oct 26;313(7064):1054–7. Comment in: BMJ 1996 Oct 26;313(7064):1057.
Effect of fundholding on waiting times: database study. Dowling B. **BMJ** 1997 Aug 2;315(7103):290–2
What is to be done about fundholding? Gosden T, et al. **BMJ** 1997 Jul 19;315(7101):170–1
General practice fundholding and health care costs [editorial; comment] Keeley D. **BMJ** 1997 Jul 19;315(7101):139. Comment on: BMJ 1997 Jul 19;315(7101):166–70.
How has fundholding in Northern Ireland affected prescribing patterns? A longitudinal study [see comments] Rafferty T, et al. **BMJ** 1997 Jul 19;315(7101):166–70. Comment in: BMJ 1997 Jul 19;315(7101):139.
General practice fundholding has improved services [letter; comment] Scott K. **BMJ** 1996 Sep 21;313(7059):752. Comment on: BMJ 1996 May 25;312(7042):1311–2.
Commentary: models can be powerful tools for making decisions about effective and efficient health care [comment] Shahani A. **BMJ** 1996 Oct 26;313(7064):1057. Comment on: BMJ 1996 Oct 26;313(7064):1054–7.
Managed care and the relevant costs for pricing. Heshmat S. **Health Care Manage Rev** 1997 Winter;22(1):82–5
Strategic options in capital budgeting and program selection under fee–for–service and managed care. Magiera FT, et al. **Health Care Manage Rev** 1996 Fall;21(4):7–17
Cash—the lifeblood of veterinary practice. Bradley CR, et al. **J Am Vet Med Assoc** 1996 Sep 15;209(6):1084–5
Selling a medical practice: changing perspectives. Bryant ME. **J Med Assoc Ga** 1996 Nov;85(4):227–9
The impact of managed care on physicians' personal finances. McGeehan MC. **J Med Assoc Ga** 1996 Nov;85(4):247–9
Pricing your practice. BeSaw L, et al. **Tex Med** 1996 Mar; 92(3):48–51
Competing for foreign aid for health development. Drager N. **World Health Forum** 1996;17(1):46–8

ECONOMICS

Getting the doctor his due. Harty–Golder B. **J Fla Med Assoc** 1997 Feb;84(2):125–8

LEGISLATION & JURISPRUDENCE

Fiction or reality? The Zagoria case and derivative professional liability. Berg RN. **J Med Assoc Ga** 1996 Nov; 85(4):261–2

METHODS

Monitoring and evaluating disease management: information requirements. Armstrong EP. **Clin Ther** 1996 Nov–Dec; 18(6):1327–33
Development of provider networks for specific diseases. Pristave RJ, et al. **J Health Care Finance** 1995 Winter; 22(2):27–41 (17 ref.)

STANDARDS

A framework for evaluating capital structure. Sterns JB, et al. **J Health Care Finance** 1995 Winter;22(2):80–5

STATISTICS & NUMERICAL DATA

Financial performance among adult day centers: results of a national demonstration program. Reifler BV, et al. **J Am Geriatr Soc** 1997 Feb;45(2):146–53

TRENDS

"Managed education": an approach to funding medical education. Watson RT. **Acad Med** 1997 Feb;72(2):92–3
Help us do this job [editorial] Mills JW. **Pa Med** 1997 Apr; 100(4):4

FINANCIAL MANAGEMENT, HOSPITAL

The salary responsibility program for full–time faculty members in an academic clinical department. Kastor JA, et al. **Acad Med** 1997 Jan;72(1):23–9
The effects of CEO–board relations on hospital performance. Molinari C, et al. **Health Care Manage Rev** 1997 Summer; 22(3):7–15
Finance ... give small–town and rural hospitals their due [news] **Hosp Health Netw** 1996 Dec 5;70(23):11
Finance ... bad tidings for hospitals in Philadelphia and Pittsburgh [news] **Hosp Health Netw** 1997 Aug 5;71(15):12
Software. Data rich, information poor. Serb C. **Hosp Health Netw** 1997 May 5;71(9):43–4
Fast, flexible, and fluid: the continuing success of the Charlotte–Mecklenburg Hospital Authority in an era of public hospital crisis. Waters JB, et al. **J Health Care Finance** 1997 Summer;23(4):51–9
Optimum investments in project evaluations: when are

cost-effectiveness analyses cost-effective? Woodward RS, et al. **J Med Syst** 1996 Dec;20(6):385-93
Spending more through "cost control": our obsessive quest to gut the hospital. Reinhardt UE. **Nurs Outlook** 1997 Jul-Aug;45(4):156-60
[Control of hospital expenditures] Huguier M. **Chirurgie** 1997; 122(2):122-6 (Eng. Abstr.) **(Fre)**

LEGISLATION & JURISPRUDENCE

Policy. Hospitals get the eagle eye [news] Greene J. **Hosp Health Netw** 1997 Feb 5;71(3):13
Fraud & abuse. Comply route. Serb C. **Hosp Health Netw** 1997 Sep 5;71(17):50, 52, 54
To fear or not to fear: hospital liability for teaching physician and resident billing issues. Berliner MC. **J Health Care Finance** 1996 Winter;23(2):86-7

METHODS

Downsizing and financial performance in rural hospitals [see comments] Mick SS, et al. **Health Care Manage Rev** 1996 Spring;21(2):16-25. Comment in: Health Care Manage Rev 1996 Spring;21(2):26-8.
Activity-based costing for hospitals. Udpa S. **Health Care Manage Rev** 1996 Summer;21(3):83-96
Global budgets and excess demand for hospital care. Feldman R, et al. **Health Econ** 1997 Mar-Apr;6(2):187-96 (20 ref.)
How to buy a medical practice without losing your shirt [see comments] Parr J. **Hosp Health Netw** 1997 Apr 20; 71(8):30, 32, 34. Comment in: Hosp Health Netw 1997 Jun 20;71(12):10.
Bundling post-acute care (PAC) with Medicare DRG payments: an exploration of the distributional and risk consequences. Lee AJ, et al. **Inquiry** 1996 Fall;33(3):283-91
Activity-based costing for clinical paths. An example to improve clinical cost & efficiency. Asadi MJ, et al. **J Soc Health Syst** 1996;5(2):1-7
Selling high quality and low cost: market conditions and successful quality improvement projects. Uttermohlen DM. **J Soc Health Syst** 1996;5(2):73-81
Financing [editorial; comment] Waddington C. **Trop Doct** 1996 Oct;26(4):145-6. Comment on: Trop Doct 1996 Oct;26(4):177-9.

ORGANIZATION & ADMINISTRATION

Move to "more corporate" health care system may affect hospital donations. Stewart J. **CMAJ** 1997 Jul 15; 157(2):189-90
The value of one. Kirschner S. **J Med Assoc Ga** 1996 Nov; 85(4):245-6
An integrated approach to health care financing--the case of Chogoria Hospital [see comments] Sammon AM. **Trop Doct** 1996 Oct;26(4):177-9. Comment in: Trop Doct 1996 Oct;26(4):145-6.

STANDARDS

Business office. A better way to bill. Nordhaus-Bike AM. **Hosp Health Netw** 1997 Mar 5;71(5):48

STATISTICS & NUMERICAL DATA

Assessing the characteristics of hospital bond defaults. McCue MJ, et al. **Med Care** 1996 Nov;34(11):1121-34

TRENDS

Capital spending. Loan program on borrowed time? Meyer HR. **Hosp Health Netw** 1997 Aug 5;71(15):61-2
The effect of rural hospital closures on the financial performance of neighboring rural hospitals. McKay NL, et al. **Inquiry** 1996 Fall;33(3):271-82
Financing care for the uninsured: the dilemma vexes New Jersey hospitals and payers. Wells EV. **N J Med** 1996 May; 93(5):23-5

FINANCIAL SUPPORT

Why should the public help pay to educate doctors? Cohen JJ. **Acad Med** 1996 Aug;71(8):903
Financing academic medicine: strengthening the tangled strands before they snap. Cohen JJ. **Acad Med** 1997 Jun; 72(6):520
Caring for older people. Article omitted to mention Princess Royal Trust for Carers... [letter] Butler D. **BMJ** 1996 Nov 30;313(7069):1403
Caring for older people. Carers need financial assistance to buy help [letter; comment] Eskin F. **BMJ** 1996 Nov 30; 313(7069):1402-3. Comment on: BMJ 1996 Aug 24;313(7055):482-6.
Caring for older people....and Crossroads Association [letter] Wallace P, et al. **BMJ** 1996 Nov 30;313(7069):1403
Why you should support the American Heart Association! Presented at the 69th scientific sessions of the American Heart Association. November 10, 1996. New Orleans, Louisiana. Breslow JL. **Circulation** 1996 Dec 1; 94(11):3016-22
The financing of child care: current and emerging trends. Stoney L, et al. **Future Child** 1996 Summer-Fall;6(2):83-102 (49 ref.)
OSDH receives grant to assist pregnant women with HIV, AIDS [news] **J Okla State Med Assoc** 1996 Aug;89(8):299
Current trends in financing graduate medical education. Silversmith J. **Minn Med** 1996 Mar;79(3):26-31
Dental license at stake in support cases. Plunkett LR. **N Y State Dent J** 1996 Feb;62(2):10-1
Buy now ... pay later. Winter L. **N Y State Dent J** 1997 Jun-Jul;63(6):44-5
A fundholder's support for community participation. Colin-Thomé D. **Occas Pap R Coll Gen Pract** 1994 Jan; (64):14-6
Financial disclosure is not full disclosure [editorial] Goldwyn RM. **Plast Reconstr Surg** 1997 Jun;99(7):2034-5
Actuarial status of the Social Security and Medicare Trust Funds. **Soc Secur Bull** 1996 Summer;59(2):57-63
Income protection for the aged in the 21st century: a framework to help inform the debate. Wheeler PM, et al. **Soc Secur Bull** 1996 Summer;59(2):3-19
Profiles of clients in government-funded drug user treatment settings. Hoffman JA, et al. **Subst Use Misuse** 1996 Mar; 31(4):453-77
Financial support of organ procurement in the United States. Wolf JS. **Transplant Proc** 1997 Feb-Mar;29(1-2):1631-2
Medical education should not be held hostage to managed care, but tuition should be managed. Ulmer RH. **Wis Med J** 1997 Jan;96(1):5
Funding priorities for a struggling world: ours and theirs [letter] [see comments] Elkins TE, et al. **Womens Health Issues** 1996 Mar-Apr;6(2):115. Comment in: Womens Health Issues 1996 Sep-Oct;6(5):307.
[Economics of health care in Mali (see comments)] Coulibaly SO, et al. **Sante** 1996 Nov-Dec;6(6):353-9 (Eng. Abstr.). Comment in: Sante 1996 Nov-Dec;6(6):337-9. **(Fre)**
[Cancer screening in Hungary: World Bank supported model programs] Bodó M, et al. **Orv Hetil** 1997 Jul 13; 138(28):1801-4 (Eng. Abstr.) **(Hun)**
[Graduate education financing. An indispensable review in the modernization of health education in universities] Rosselot EJ. **Rev Med Chil** 1995 Sep;123(9):1150-9 (Eng. Abstr.) **(Spa)**

FINANCING, CAPITAL see **CAPITAL FINANCING**

FINANCING, GOVERNMENT

Dispute over breast cancer research funds in the US [news] **Ann Oncol** 1997 Jan;8(1):2-3
Reshaping Italian AIDS research [news] Bindi R. **Ann Oncol** 1997 Jun;8(6):508-9
A clever solution [editorial] Morain WD. **Ann Plast Surg** 1997 Aug;39(2):216-7
University, industry, and governmental consortia: alliances for a new era. Moskowitz J. **Ann Thorac Surg** 1997 Sep; 64(3):906-7
Funding the NHS. A little local difficulty? Dixon J, et al. **BMJ** 1997 Jan 18;314(7075):216-9
Funding the NHS. Is the NHS underfunded? Dixon J, et al. **BMJ** 1997 Jan 4;314(7073):58-61
Funding the NHS. Is the NHS sustainable? Harrison A, et al. **BMJ** 1997 Jan 25;314(7076):296-8
Withdrawal of funding for intercalating BSc students [letter] Attwell D, et al. **Br Dent J** 1996 Sep 21;181(6):196
NLM extramural program: frequently asked questions. Zink S, et al. **Bull Med Libr Assoc** 1996 Apr;84(2):165-81
Acknowledgement of your research sponsor. It pays to advertise [news] Lenfant C. **Circulation** 1996 Aug 1; 94(3):234-5
Federal funding and university science: lessons learned from lobbying government. Murphy RA. **Clin Invest Med** 1997 Aug;20(4):289-95
Furious about the forum [letter; comment] Smith D. **CMAJ** 1997 Jul 15;157(2):139. Comment on: Can Med Assoc J 1997 Apr 1;156(7):999-1000.
Decisions are only as good as the information considered [editorial] Hook GE. **Environ Health Perspect** 1996 Feb; 104(2):130
Demise of the OTA. Susman E. **Environ Health Perspect** 1996 Feb;104(2):154-5
Funding child rearing: child allowance and parental leave. Walker JR. **Future Child** 1996 Summer-Fall;6(2):122-36; discussion 137-45
Do public support payments encourage substance abuse? Rosenheck R, et al. **Health Aff (Millwood)** 1996 Fall; 15(3):192-200
Bridging the gap between public expectations and public willingness to pay [editorial] Smee CH. **Health Econ** 1997 Jan-Feb;6(1):1-9
Promoting the recruitment and retention of minority dental faculty: federal, state, and personal programs. Moore RN. **J Dent Educ** 1997 Mar;61(3):277-82
Federal block grants and state spending: the Alcohol, Drug Abuse, and Mental Health block grant and state agency behavior. Jacobsen K, et al. **J Health Polit Policy Law** 1996 Winter;21(4):753-70
Friends of Cancer Research testify at Senate: cancer funding should be doubled [news] Smeltz KJ. **J Natl Cancer Inst** 1997 Jun 4;89(11):756-8
Funds for nutrition related research. Aging. Starke-Reed PE. **J Nutr** 1996 Oct;126(10):2593-4
Restorative treatments received by children covered by a universal, publicly financed, dental insurance plan. Ismail A, et al. **J Public Health Dent** 1997 Winter;57(1):11-8
NIH retains research funds for the future [news] Macilwain C. **Nature** 1996 Nov 21;384(6606):203
Japanese grant system is a lottery [letter] Yokoyama S. **Nature** 1996 Dec 5;384(6608):402-3
A curbstone consult to applicants for National Institute of Mental Health grant support. Rush AJ, et al. **Psychopharmacol Bull** 1996;32(3):311-20
Is federal funding a necessary condition to defining the role of nurse researcher? [editorial] Schmitt MH. **Res Nurs Health** 1996 Dec;19(6):449
Selling science: at what price? [news] Lawler A. **Science** 1997 Jan 17;275(5298):296-7
Too radical for NIH? Try DARPA [news] Marshall E. **Science** 1997 Feb 7;275(5301):744-6
Senate bills back huge increases [news] Mervis J. **Science** 1997 Jan 31;275(5300):608
Seed money. BeSaw L. **Tex Med** 1997 Aug;93(8):46-8
[Cancer screening in Hungary: World Bank supported model programs] Bodó M, et al. **Orv Hetil** 1997 Jul 13; 138(28):1801-4 (Eng. Abstr.) **(Hun)**
[Efficiency based financing--why does the reimbursement go to the county councils?] Grøtting T. **Tidsskr Nor Laegeforen** 1997 Aug 20;117(19):2820-1 **(Nor)**
[The Canadian health system and its financing] Solórzano FX. **Rev Panam Salud Publica** 1997 Mar;1(3):180-5 (Eng. Abstr.) **(Spa)**

ECONOMICS

Does increased spending on alcoholism treatment lead to lower cirrhosis death rates? Smart RG, et al. **Alcohol Alcohol** 1996 Sep;31(5):487-91
Centers for Disease Control and Prevention partnerships with external behavioral and social scientists. Roles, extramural funding, and employment. Rugg DL, et al. **Am Psychol** 1997 Feb;52(2):147-53
Universal coverage: the best use of funds or the tragedy of the commons? [letter; comment] Aldis JS. **Can Med Assoc J** 1996 Sep 15;155(6):627; discussion 628, 630. Comment on: Can Med Assoc J 1996 Jun 1;154(11):1619-20.
Ontario's proposal to end provincial funding for public health: what is at stake? [editorial] Chambers LW. **Can Med Assoc J** 1997 Apr 1;156(7):1001-3
Averting disaster: a conversation with the Los Angeles County 'Health Czar' [interview by John K. Iglehart] Margolin B. **Health Aff (Millwood)** 1996 Spring;15(1):86-91
The growth of cost-effectiveness assessment in environmental health legislation. Smalley T. **J R Soc Health** 1996 Oct;116(5):287-9
Managed care: the ultimate model [letter] Strawcutter H. **N C Med J** 1996 May-Jun;57(3):126-7
Federally funded drug and alcohol programs found effective in reducing drug use, crime, homelessness [news] **Psychiatr Serv** 1996 Nov;47(11):1280-1
Incompatibility of capitation and government grant-in-aid programs. Ford WE. **Psychiatr Serv** 1996 Aug;47(8):795-6, 801
The new federal role in education and family services: goal setting without responsibility. Allen-Meares P. **Soc Work** 1996 Sep;41(5):533-40
[Reform of the financing of the public health system in Israel] Koen MA. **Probl Sotsialnoi Gig Istor Med** 1994 Sep-Oct; (5):45-54 **(Rus)**

HISTORY

A brief history of federal financing for child care in the United States. Cohen AJ. **Future Child** 1996 Summer-Fall; 6(2):26-40

LEGISLATION & JURISPRUDENCE

Integrating HIV prevention, STD, and family planning services. The need for integrated government funding and services [letter; comment] Sable M. **Am J Public Health** 1997 Apr;87(4):693. Comment on: Am J Public Health 1996 Jun;86(6):783-4.
Neoliberalism and criticisms of earthquake insurance arrangements in New Zealand. Hay I. **Disasters** 1996 Mar; 20(1):34-48
The financing of child care: current and emerging trends. Stoney L, et al. **Future Child** 1996 Summer-Fall;6(2):83-102 (49 ref.)
Financing graduate medical education: the search for new sources of support. Desmarais HR, et al. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):48-63
Welfare reform: the bad, the ugly, and the maybe not too awful [editorial] Poole DL. **Health Soc Work** 1996 Nov; 21(4):243-6
Campaign 1996. The lobbyists. Hudson T. **Hosp Health Netw** 1996 Oct 5;70(19):46, 48, 50-2
Campaign 1996. The scenarios. Meyer H. **Hosp Health Netw** 1996 Oct 5;70(19):38-40, 42-4, 54
Extracting the teeth from the False Claims Act. Walter C, et al. **IEEE Eng Med Biol Mag** 1997 May-Jun;16(3):93-5
The buck stops here: preemption of third-party claims by the false claims act. O'Neil TF 3rd, et al. **J Contemp Health Law Policy** 1995 Fall;12(1):41-65 (149 ref.)
Comments concerning graduate medical education. Litch CS. **J Dent Educ** 1997 Jun;61(6):501-5
Proposed 1998 federal budget abandons nurse education [news] **J Nurs Adm** 1997 Jun;27(6):3
Health and welfare reform, part 1: the origins [see comments] Velsor-Friedrich B. **J Pediatr Nurs** 1996 Feb;11(1):62-3. Comment in: J Pediatr Nurs 1996 Aug;11(4):269.

Clinton proposes cuts in Medicare spending growth [news] **Minn Med** 1997 Mar;80(3):40
Heat rises over UCSD 'misconduct' charge [news] Dalton R. **Nature** 1997 Feb 13;385(6617):566
Clinton's 1997 budget includes small increases for research, cuts in funds for service programs [news] **Psychiatr Serv** 1996 May;47(5):548
Medicaid block grants [letter; comment] Buck JA, et al. **Psychiatr Serv** 1996 Nov;47(11):1265–6. Comment on: Psychiatr Serv 1996 Jul;47(7):679.
The False Claims Act: litigating scientific misconduct II. Sherman S. **Public Health Rep** 1997 May–Jun;112(3):248
[Physician responsibility/public responsibility] Vilmar K. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:667–71 **(Ger)**

METHODS

Radiology in Finland. Soimakallio S. **Eur Radiol** 1997; 7(5):759–60

ORGANIZATION & ADMINISTRATION

Move to "more corporate" health care system may affect hospital donations. Stewart J. **CMAJ** 1997 Jul 15; 157(2):189–90
The provision of public–sector services by family planning agencies in 1995. Frost JJ, et al. **Fam Plann Perspect** 1997 Jan–Feb;29(1):6–14
Financing child care: analysis and recommendations. Gomby DS, et al. **Future Child** 1996 Summer–Fall;6(2):5–25 (88 ref.)
Integrated networks and health care provider cooperatives: new models for rural health care delivery and financing. Casey MM. **Health Care Manage Rev** 1997 Spring; 22(2):41–8
Accreditation programs for hospitals: funding and operation. Bohigas L, et al. **Int J Qual Health Care** 1996 Dec; 8(6):583–9
Organization and financing of home nursing in the European Union. Kerkstra A, et al. **J Adv Nurs** 1996 Nov; 24(5):1023–32
Medicare repair. Nichols CS. **J S C Med Assoc** 1997 Feb; 93(2):45

STATISTICS & NUMERICAL DATA

Public funding for contraceptive, sterilization and abortion services, 1994. Sollom T, et al. **Fam Plann Perspect** 1996 Jul–Aug;28(4):166–73
What types of hospitals form the safety net? Fishman LE. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):215–22
[Statistics—lying, but correctly!] Bias R. **Wien Med Wochenschr** 1996;146(11):236–7 **(Ger)**
[The federal health expenditure on the uninsured population: Mexico 1980–1995] Lara A, et al. **Salud Publica Mex** 1997 Mar–Apr;39(2):102–9 (Eng. Abstr.) **(Spa)**

TRENDS

Publicly funded HIV counseling and testing in the United States, 1992–1995. Weber JT, et al. **AIDS Educ Prev** 1997 Jun;9(3 Suppl):79–91
NIH funding opportunities: tempora mutantur et nos mutamur in illis! (times are changing and we are changing with them). McClure ME. **Am J Reprod Immunol** 1997 Jan;37(1):144–8
Geographical resource allocation for public mental health services in Victoria. Meadows G. **Aust N Z J Psychiatry** 1997 Feb;31(1):95–104
Few government forecasts of public expenditure have been realistic [letter; comment] Dixon J. **BMJ** 1997 Jul 12; 315(7100):120–1. Comment on: BMJ 1997 Mar 29;314(7085):974.
Can the NHS cope in future? Harrison A, et al. **BMJ** 1997 Jan 11;314(7074):139–42
Medical schools seeking new ways to cope with funding cutbacks. Thorne S. **Can Med Assoc J** 1997 Jun 1; 156(11):1611–3
A consortium, graduate medical education, and Buffalo: defining a common ground. Rosenthal TC, et al. **Fam Med** 1997 Jul–Aug;29(7):465–70
At the crossroads: options for financing college health services in the 21st century. Brindis C, et al. **J Am Coll Health** 1997 May;45(6):279–88
Reduction in length of hospital stay for acute childhood asthma associated with the introduction of casemix funding. South M. **Med J Aust** 1997 Jul 7;167(1):11–3
Excerpt from the report of the 1994–96 Advisory Council on Social Security: findings and recommendations. **Soc Secur Bull** 1996 Winter;59(4):51–68

FINANCING, ORGANIZED

Periodontal status among male industrial workers in southern Finland with or without access to subsidized dental care. Ahlberg J, et al. **Acta Odontol Scand** 1996 Jun;54(3):166–70
Illustration of a method for selecting research grant applications. Frey FJ, et al. **Altern Ther Health Med** 1997 May;3(3):35–8
Funding research in the NHS [editorial] Peters K, et al. **BMJ** 1996 Nov 30;313(7069):1344–5
Medical Research Council is to abolish project grants [news] Wise J. **BMJ** 1997 May 31;314(7094):1571
Finance schemes for funding private orthodontic treatment. Perks S. **Br J Orthod** 1997 Feb;24(1):69–73
Top–down savings [letter; comment] Uzych L. **Hastings Cent Rep** 1996 Sep–Oct;26(5):3. Comment on: Hastings Cent Rep 1995 Nov–Dec;25(6):5–12.
"Funding first" launched by Lasker trust [news] **J Natl Cancer Inst** 1997 Jun 4;89(11):758
Homegrown program promotes health in New Jersey. Seitz PM. **N J Med** 1996 Dec;93(12):47–51
Limit the number of grants per person [letter] Sachs F. **Nature** 1997 Jul 17;388(6639):222
Financing of pediatric dental postgraduate programs. Tinanoff N. **Pediatr Dent** 1997 May;19(3):178–81
[Productivity–based payment. A new system in Germany combines efficiency and cost control] Horgby PJ. **Lakartidningen** 1997 Feb 19;94(8):646, 649, 651–2 **(Swe)**

ECONOMICS

Graduate medical education financing: a primer. Amis ES Jr, et al. **Acad Radiol** 1996 Jun;3(6):507–11
The potential and limits of competition in health care. Ginzberg E. **Bull N Y Acad Med** 1996 Winter;73(2):224–36
Changes in health care financing: effects on the delivery of health care services in the 1990s [see comments] Gates DM. **J Cardiovasc Nurs** 1996 Oct;11(1):1–13. Comment in: J Cardiovasc Nurs 1996 Oct;11(1):v–vii.
Comparison of publication rates for basic sciences versus practice from pharmacy–based grant programs. Ateshkadi A, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1128–32

HISTORY

Irish medicine's appeal to Rockefeller, 1920s. Lyons JB. **Ir J Med Sci** 1997 Jan–Mar;166(1):50–6

ORGANIZATION & ADMINISTRATION

The surgical scientist. Wells SA Jr. **Ann Surg** 1996 Sep; 224(3):239–54

FINANCING, PERSONAL

The economic impact on families of children's participation in junior sport. Kirk D, et al. **Aust J Sci Med Sport** 1997 Jun;29(2):27–33
Whither private health insurance? [letter; comment] Stacey BG. **Aust N Z J Public Health** 1997 Jun;21(3):347–8. Comment on: Aust N Z J Public Health 1997 Apr;21(2):119–20.
The financial year–end health check. Way R. **Br J Hosp Med** 1997 Mar 5–18;57(5):231–2
Furious about the forum [letter; comment] Smith D. **CMAJ** 1997 Jul 15;157(2):139. Comment on: Can Med Assoc J 1997 Apr 1;156(7):999–1000.
A real health threat—debt. Bentivegna JF. **Conn Med** 1997 Mar;61(3):180
Age differences in performance awareness on a complex financial decision–making task. Hershey DA, et al. **Exp Aging Res** 1997 Jul–Sep;23(3):257–73
Why MSAs increase costs [letter; comment] Sheils JF. **Health Aff (Millwood)** 1996 Spring;15(1):241. Comment on: Health Aff (Millwood) 1995 Spring;14(1):126–39.
Using willingness to pay to assess the benefits of assisted reproductive techniques. Ryan M. **Health Econ** 1996 Nov–Dec;5(6):543–58
Putting choice back into the health care equation [editorial] Meskin LH. **J Am Dent Assoc** 1997 May;128(5):536, 538, 540
Who benefits from medical savings accounts? [letter; comment] Guazzo E. **JAMA** 1996 Oct 23–30;276(16):1298; discussion 1299. Comment on: JAMA 1996 Jun 5;275(21):1666–71.
Who benefits from medical savings accounts? [letter; comment] Hixson JS. **JAMA** 1996 Oct 23–30;276(16):1299; discussion 1299. Comment on: JAMA 1996 Jun 5;275(21):1666–71.
Who benefits from medical savings accounts? [letter; comment] Kastner T, et al. **JAMA** 1996 Oct 23–30; 276(16):1298–9; discussion 1299. Comment on: JAMA 1996 Jun 5;275(21):1666–71.
Can we afford medical savings accounts? Keeler LL. **N J Med** 1996 Nov;93(11):67–8
Banking for health [editorial] Slobodien HD. **N J Med** 1996 Feb;93(2):81–2
Does "process utility" exist? A case study of willingness to pay for laparoscopic cholecystectomy. Donaldson C, et al. **Soc Sci Med** 1997 Mar;44(5):699–707
Psychiatric patient faces major personal costs [comment] Hamilton S. **Wis Med J** 1996 Apr;95(4):226–7. Comment on: Wis Med J 1996 Apr;95(4):223–5.

ECONOMICS

Paying the cost of living. Way R. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):176–7
Impact of childhood brain injury on work and family finances. Osberg JS, et al. **Brain Inj** 1997 Jan;11(1):11–24
Does sharing the cost of a bicycle helmet help promote helmet use? Kim AN, et al. **Inj Prev** 1997 Mar;3(1):38–42
Household cost of seeking malaria care. A retrospective study of two districts in Ghana. Asenso–Okyere WK, et al. **Soc Sci Med** 1997 Sep;45(5):659–67
Household strategies to cope with the economic costs of illness. Sauerborn R, et al. **Soc Sci Med** 1996 Aug; 43(3):291–301
[Economic wealth in Germany] Beske F, et al. **Gesundheitswesen** 1997 Apr;59(4):289–91 **(Ger)**

LEGISLATION & JURISPRUDENCE

Medical savings account: available at last [editorial] Pulec JL. **Ear Nose Throat J** 1997 May;76(5):286
Bank on it. Thrift, theft or confusion? Medical savings accounts may bring all three [news] Meyer H. **Hosp Health Netw** 1997 Feb 5;71(3):26, 28
Policy. Are savings accounts Medicare's loss? Meyer H. **Hosp Health Netw** 1997 Sep 5;71(17):77–8
Egging people on. Long–term care. Meyer H. **Hosp Health Netw** 1996 Oct 20;70(20):36–8
Medical savings accounts and research. Swartz K. **Inquiry** 1996 Fall;33(3):216–9
Medical savings accounts: health system savior or insurance scam? Rabinowitz HK. **J Am Board Fam Pract** 1997 Jan–Feb;10(1):50–4

METHODS

The case for medical savings accounts. Jampel HD. **Arch Ophthalmol** 1997 Sep;115(9):1185–8
Are medical savings accounts an effective insurance alternative? Halva K. **Minn Med** 1997 Jun;80(6):52–3

ORGANIZATION & ADMINISTRATION

Medical savings accounts: real patient power [letter] Blevins SA. **Nurse Pract** 1996 Sep;21(9):14–5, 148

STATISTICS & NUMERICAL DATA

How will medical savings accounts affect medical spending? Ozanne L. **Inquiry** 1996 Fall;33(3):225–36 (10 ref.)
Willingness to pay for reductions in angina pectoris attacks. Kartman B, et al. **Med Decis Making** 1996 Jul–Sep; 16(3):248–53
An empirical note on willingness to pay and starting–point bias. Stålhammar NO. **Med Decis Making** 1996 Jul–Sep; 16(3):242–7
Willingness to pay for antihypertensive care: evidence from a staff–model HMO. Ramsey SD, et al. **Soc Sci Med** 1997 Jun;44(12):1911–7

TRENDS

Excerpt from the report of the 1994–96 Advisory Council on Social Security: findings and recommendations. **Soc Secur Bull** 1996 Winter;59(4):51–68

FINANCING, PUBLIC see **FINANCING, GOVERNMENT**

FINASTERIDE

ADMINISTRATION & DOSAGE

Clinical trials referral resource. Breast cancer and prostate cancer. Brawley OW, et al. **Oncology (Huntingt)** 1996 Jan; 10(1):100, 102
Chronic prostatic pain. A new treatment option with finasteride? Holm M, et al. **Scand J Urol Nephrol** 1997 Apr; 31(2):213–5
[Finanseride in symtomatic benign prostatic hyeprtrophy. A 2–year placebo–controlled study] Andersen JT, et al. **Ugeskr Laeger** 1996 Sep 2;158(36):5030–5 (Eng. Abstr.) **(Dan)**
[Drug therapy of benign prostatic hyperplasia concentrates on early stages (news)] Hofstetter A. **Fortschr Med** 1997 Feb 20;115(5):8 **(Ger)**

ADVERSE EFFECTS

The safety of finasteride used in benign prostatic hypertrophy: a non–interventional observational cohort study in 14,772 patients. Wilton L, et al. **Br J Urol** 1996 Sep;78(3):379–84
Finasteride induced gynecomastia. Carlin BI, et al. **J Urol** 1997 Aug;158(2):547
Reversible severe myopathy during treatment with finasteride. Haan J, et al. **Muscle Nerve** 1997 Apr; 20(4):502–4
Measures of Proscar, Hytrin, and Cardura side effects. Frankel S. **Neurourol Urodyn** 1997;16(1):63–6 (0 ref.)

ANALOGS & DERIVATIVES

Synthesis of 4,17–diazasteroid inhibitors of human 5 alpha–reductase. Morzycki JW, et al. **Bioorg Med Chem** 1996 Aug;4(8):1209–15
A putative 5 alpha–reductase inhibitor demasculinizes portions of the zebra finch song system. Grisham W, et al. **Brain Res** 1997 Mar 7;750(1–2):122–8
Determination of turosteride, a new inhibitor of 5 alpha–reductase, in human plasma by high–performance liquid chromatography with ultraviolet detection. Basileo G, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10; 688(1):117–25
The effects of progesterone, 4,16–androstadien–3–one and MK–434 on the kinetics of pig testis microsomal testosterone–4–ene–5alpha–reductase activity. Cooke GM, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5–6):353–9
Effect of turosteride, a 5 alpha–reductase inhibitor, on the

FINASTERIDE

Dunning R3327 rat prostatic carcinoma. Zaccheo T, et al. **Prostate** 1997 Feb 1;30(2):85–91

BLOOD

Finasteride in biological fluids: extraction and separation by a graphitized carbon black cartridge and quantification by high–performance liquid chromatography. Carlucci G, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):245–8

Synthesis of 5,6,6–[2H3]finasteride and quantitative determination of finasteride in human plasma at picogram level by an isotope–dilution mass spectrometric method. Guarna A, et al. **J Chromatogr B Biomed Appl** 1995 Dec 15;674(2):197–204

High–performance liquid chromatographic determination of finasteride in human plasma using direct injection with column switching. Takano T, et al. **J Chromatogr B Biomed Appl** 1996 Feb 9;676(1):141–6

PHARMACOKINETICS

Disposition and metabolism of finasteride in dogs. Carlin JR, et al. **Drug Metab Dispos** 1997 Jan;25(1):100–9

Assessment of the pharmacokinetic–pharmacodynamic interaction between terazosin and finasteride. Samara EE, et al. **J Clin Pharmacol** 1996 Dec;36(12):1169–78

In vivo time–dependent inhibition of human steroid 5 alpha–reductase by finasteride. Tian G. **J Pharm Sci** 1996 Jan;85(1):106–11

PHARMACOLOGY

Evaluation of prostatic intraepithelial neoplasia after treatment with a 5–alpha–reductase inhibitor (finasteride). A methodologic approach. Montironi R, et al. **Anal Quant Cytol Histol** 1996 Dec;18(6):461–70

Inhibition of brain 5 alpha–reductase in pregnant rats: effects on enzymatic and behavioral activity. Lephart ED, et al. **Brain Res** 1996 Nov 11;739(1–2):356–60

Down–regulation of prostate–specific antigen expression by finasteride through inhibition of complex formation between androgen receptor and steroid receptor–binding consensus in the promoter of the PSA gene in LNCaP cells. Wang LG, et al. **Cancer Res** 1997 Feb 15;57(4):714–9

5 alpha–reductase activity in cultured epithelial and stromal cells from normal and hyperplastic human prostates—effect of finasteride (Proscar), a 5 alpha–reductase inhibitor. Boudon C, et al. **Cell Mol Biol (Noisy–le–grand)** 1995 Dec; 41(8):1007–15

Effect of finasteride (Proscar) on the proliferation of cultured epithelial and stromal cells from normal and hyperplastic human prostates. Lobaccaro JM, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jun;42(4):511–8

Androgen metabolism in the prostate of the finasteride–treated, adult rat: a possible explanation for the differential action of testosterone and 5 alpha–dihydrotestosterone during development of the male urogenital tract. George FW. **Endocrinology** 1997 Mar; 138(3):871–7

Effect of finasteride on human testicular steroidogenesis. Castro–Magana M, et al. **J Androl** 1996 Sep–Oct; 17(5):516–21

Effects of a 5 alpha–reductase inhibitor, finasteride, on the developing prostate and testis of a marsupial. Ryhorchuk AR, et al. **J Androl** 1997 Mar–Apr;18(2):123–30

Effect of MK–386, a novel inhibitor of type 1 5 alpha–reductase, alone and in combination with finasteride, on serum dihydrotestosterone concentrations in men. Schwartz JI, et al. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2942–7

Assessment of the pharmacokinetic–pharmacodynamic interaction between terazosin and finasteride. Samara EE, et al. **J Clin Pharmacol** 1996 Dec;36(12):1169–78

In vivo time–dependent inhibition of human steroid 5 alpha–reductase by finasteride. Tian G. **J Pharm Sci** 1996 Jan;85(1):106–11

Inhibition of rat aipha–reductases by finasteride: evidence for isozyme differences in the mechanism of inhibition. Azzolina B, et al. **J Steroid Biochem Mol Biol** 1997 Apr; 61(1–2):55–64

Human prostate tumor growth in athymic mice: inhibition by androgens and stimulation by finasteride. Umekita Y, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11802–7

THERAPEUTIC USE

Study provides head–to–head comparison of terazosin, finasteride [news] **Am J Health Syst Pharm** 1996 Oct 15; 53(20):2380, 2382

Drug treatment for benign prostatic hyperplasia. Several trials have shown benefit of finasteride [letter; comment] Collins GN. **BMJ** 1997 Aug 9;315(7104):371. Comment on: BMJ 1997 Apr 26;314(7089):1215–6.

Drug treatment for benign prostatic hyperplasia. Health authorities must audit use of finasteride [letter; comment] Mendelsohn R, et al. **BMJ** 1997 Aug 9;315(7104):370–1. Comment on: BMJ 1997 Apr 26;314(7089):1215–6.

Drug treatment for benign prostatic hyperplasia. To interpret PSA concentrations in patients taking finasteride, multiply them by two [letter; comment] Taneja S. **BMJ** 1997 Aug 9;315(7104):371. Comment on: BMJ 1997 Apr 26;314(7089):1215–6.

Effect of finasteride on free and total serum prostate–specific antigen in men with benign prostatic hyperplasia. Matzkin H, et al. **Br J Urol** 1996 Sep;78(3):405–8

What is the best medical treatment for benign prostate hyperplasia? Evans MF, et al. **Can Fam Physician** 1997 Jun;43:1073–4

Efficacy and safety of finasteride therapy for benign prostatic hyperplasia: results of a 2–year randomized controlled trial (the PROSPECT study). PROscar Safety Plus Efficacy Canadian Two year Study [see comments] Nickel JC, et al. **Can Med Assoc J** 1996 Nov 1;155(9):1251–9. Comment in: Can Med Assoc J 1997 Apr 1;156(7):978–9.

The chemoprevention of prostate cancer and the Prostate Cancer Prevention Trial. Brawley OW, et al. **Cancer Treat Res** 1996;88:189–200

The efficacy of finasteride in the treatment of symptomatic benign prostatic hyperplasia. Wu TT, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Dec; 56(6):399–403

Differential effect of finasteride on the tissue androgen concentrations in benign prostatic hyperplasia. Habib FK, et al. **Clin Endocrinol (Oxf)** 1997 Feb;46(2):137–44

Patient satisfaction with finasteride in the treatment of symptomatic benign prostatic hyperplasia. Kaplan SA, et al. **Clin Ther** 1996 Jan–Feb;18(1):73–83

The impact of different therapies on symptoms of benign prostatic hyperplasia: a prospective study. Kawachi I, et al. **Clin Ther** 1996 Nov–Dec;18(6):1118–27

Efficacy and tolerability of finasteride in symptomatic benign prostatic hyperplasia: a primary care study. Primary Care Investigator Study Group. Tenover JL, et al. **Clin Ther** 1997 Mar–Apr;19(2):243–58

Treatment of benign prostatic hyperplasia. A pharmacoeconomic perspective. Eri LM, et al. **Drugs Aging** 1997 Feb;10(2):107–18 (84 ref.)

Promoting effects and mechanisms of action of androgen in bladder carcinogenesis in male rats. Imada S, et al. **Eur Urol** 1997;31(3):360–4

Lipids and finasteride [letter; comment] Blumenfeld Z. **Fertil Steril** 1996 Mar;65(3):677–8. Comment on: Fertil Steril 1995 Aug;64(2):299–306.

Outcome of long–term treatment with the 5 alpha–reductase inhibitor finasteride in idiopathic hirsutism: clinical and hormonal effects during a 1–year course of therapy and 1–year follow–up. Castello R, et al. **Fertil Steril** 1996 Nov; 66(5):734–40

Efficacy and safety of finasteride? [letter; comment] Durmuşoğlu F, et al. **Fertil Steril** 1997 Mar;67(3):589–90 . Comment on: Fertil Steril 1996 Jul;66(1):61–5.

Finasteride in the treatment of hirsutism: new therapeutic perspectives [see comments] Tolino A, et al. **Fertil Steril** 1996 Jul;66(1):61–5. Comment in: Fertil Steril 1997 Mar;67(3):589–90.

Treatment of hirsutism by finasteride and flutamide in women with polycystic ovary syndrome. Falsetti L, et al. **Gynecol Endocrinol** 1997 Aug;11(4):251–7

The concentrations of the endogenous C19–steroids in hyperplastic prostatic tissue and the effect of finasteride treatment. Hill M, et al. **Horm Metab Res** 1996 Oct; 28(10):562–4

Medicinal drugs with hormonal activity as chemopreventive agents. Cuzick J. **IARC Sci Publ** 1996;(139):99–114 (116 ref.)

Pharmacotherapy of benign prostatic hyperplasia: inhibitor of 5 alpha–reductase. Polat O, et al. **Int Urol Nephrol** 1997; 29(3):323–30

Finasteride therapy does not alter bone turnover in men with benign prostatic hyperplasia—a Clinical Research Center study. Tollin SR, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1031–4

Terazosin vs finasteride for BPH. Zacks M. **J Fam Pract** 1996 Dec;43(6):533

Treating benign prostatic hyperplasia with finasteride in Chinese men: one–year experience. Chueh SC, et al. **J Formos Med Assoc** 1996 Aug;95(8):650–2

Prostate tissue composition and response to finasteride in men with symptomatic benign prostatic hyperplasia. Marks LS, et al. **J Urol** 1997 Jun;157(6):2171–8

The role of sex steroids in the pathogenesis and maintenance of benign prostatic hyperplasia. Levine AC, et al. **Mt Sinai J Med** 1997 Jan;64(1):20–5

Finasteride–related cutaneous vaculitis [letter] Lear JT, et al. **Postgrad Med J** 1996 Feb;72(844):127

Role of finasteride in the treatment of recurrent hematuria secondary to benign prostatic hyperplasia. Carlin BI, et al. **Prostate** 1997 May 15;31(3):180–2

Evaluation of men on finasteride. Gormley GJ. **Semin Urol Oncol** 1996 Aug;14(3):139–44 (40 ref.)

Finasteride significantly reduces acute urinary retention and need for surgery in patients with symptomatic benign prostatic hyperplasia. Andersen JT, et al. **Urology** 1997 Jun; 49(6):839–45

Finasteride and flutamide as potency–sparing androgen–ablative therapy for advanced adenocarcinoma of the prostate. Brufsky A, et al. **Urology** 1997 Jun; 49(6):913–20

Biologic variability of prostate–specific antigen and its usefulness as a marker for prostate cancer: effects of finasteride. The Finasteride PSA Study Group. Oesterling JE, et al. **Urology** 1997 Jul;50(1):13–8

Lack of correlation between prostate–specific antigen density and prostatic shrinkage in response to finasteride therapy. Kirschenbaum A, et al. **World J Urol** 1996;14(6):360–2

[Benign prostatic hyperplasia—its treatment with Proscar] Panchev P, et al. **Khirurgiia (Sofiia)** 1996;49(1):15–8 (Eng. Abstr.) **(Bul)**

[Combination of Sabal and Urtica extract vs. finasteride in benign prostatic hyperplasia (Aiken stages I to II). Comparison of therapeutic effectiveness in a one year double–blind study] Sökeland J, et al. **Urologe A** 1997 Jul; 36(4):327–33 (Eng. Abstr.) **(Ger)**

[Significance of 5–alpha–reductase inhibitors in therapy of benign prostatic hyperplasia with mild to modern symptoms] Wirth MP, et al. **Urologe A** 1997 Jan;36(1):35–9 (20 ref.) (Eng. Abstr.) **(Ger)**

[Finasteride: a new drug for the treatment of male hirsutism and androgenetic alopecia?] Spinucci G, et al. **Clin Ter** 1996 Jun;147(6):305–15 (41 ref.) (Eng. Abstr.) **(Ita)**

[Treatment of prostate adenoma with finasteride. Contribution of cases] Avogadro A, et al. **Minerva Urol Nefrol** 1996 Dec;48(4):199–201 (Eng. Abstr.) **(Ita)**

[Treatment of benign prostatic hyperplasia with Proscar (finasteride). Results of a 10–year Scandinavian study] Tveter KJ, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10; 116(27):3226–30 (Eng. Abstr.) **(Nor)**

[Proscar (finasteride, MSD) in the treatment of patients with prostatic hyperplasia] Pytel' IuA, et al. **Urol Nefrol (Mosk)** 1996 Jul–Aug;(4):25–7 (Eng. Abstr.) **(Rus)**

[Treatment of benign prostatic hyperplasia with finasteride. Results after 7 years of follow–up] Martínez Sarmiento M, et al. **Actas Urol Esp** 1997 Feb;21(2):105–10 (Eng. Abstr.) **(Spa)**

TOXICITY

Effects of finasteride, a type 2 5–alpha reductase inhibitor, on fetal development in the rhesus monkey (Macaca mulatta). Prahalada S, et al. **Teratology** 1997 Feb; 55(2):119–31

FINGER INJURIES

DIAGNOSIS

Proximal interphalangeal joint injuries of the hand. Part I: anatomy and diagnosis. Bailie DS, et al. **Am J Orthop** 1996 Jul;25(7):474–7

Magnetic resonance imaging scanning in the diagnosis of zone II flexor tendon rupture. Matloub HS, et al. **J Hand Surg [Am]** 1996 May;21(3):451–5

An unreported cause of rupture of the extensor pollicis longus tendon. Cassell OC, et al. **J Hand Surg [Br]** 1996 Oct; 21(5):640–1

Bundle pattern of the flexor digitorum profundus tendon in zone II of the hand: a quantitative assessment of the size of a laceration. Grewal R, et al. **J Hand Surg [Br]** 1996 Nov;21(6):978–83

A method of two–dimensional measurement for evaluating finger motion impairment [letter; comment] Hage JJ, et al. **J Hand Surg [Br]** 1996 Aug;21(4):564–5. Comment on: J Hand Surg [Br] 1995 Oct;20(5):691–5.

Diagnosis of closed central slip injuries. A cadaveric analysis of non–invasive tests. Rubin J, et al. **J Hand Surg [Br]** 1996 Oct;21(5):614–6

EPIDEMIOLOGY

Reducing the rate of paramedic needlesticks in emergency medical services: the role of self–capping intravenous catheters [see comments] O'Connor RE, et al. **Acad Emerg Med** 1996 Jul;3(7):668–74. Comment in: Acad Emerg Med 1996 Jul;3(7):653–4.

ETIOLOGY

Acute radiodermatitis from accidental overexposure to X–rays. Soleo L, et al. **Am J Ind Med** 1996 Aug; 30(2):207–11

Two–level dorsal dislocation of the little finger. Soucacos PN, et al. **Am J Orthop** 1996 Dec;25(12):839–41

Injury during opening of an ampoule [letter] Koga K. **Anaesthesia** 1997 Mar;52(3):288

Needle stick injury using a needleless system [letter] Miyasaka K, et al. **Anesthesiology** 1996 Dec;85(6):1496–7

Association of rattlesnake bite location with severity of clinical manifestations. Moss ST, et al. **Ann Emerg Med** 1997 Jul;30(1):58–61

Finger exostosis caused by drumming? Comment on the clinical image report by Buttgereit and Burmester [letter] König A, et al. **Arthritis Rheum** 1997 Jun;40(6):1185–6

Ring avulsion injuries and the basketball player. Pynn BR, et al. **Br J Sports Med** 1997 Mar;31(1):72–4

Occupational high–pressure injection injury of the hand [letter] O'Sullivan ST, et al. **Dermatology** 1997;194(3):311

Longitudinal study on factors related to the course of vibration–induced white finger. Ogasawara C, et al. **Int Arch Occup Environ Health** 1997;69(3):180–4

The acute pathologic changes of paint–injection injury and correlation to surgical treatment: a report of two cases. Failla JM, et al. **J Hand Surg [Am]** 1997 Jan;22(1):156–9

Flexor digitorum profundus rupture of the small finger secondary to nonunion of the hook of hamate: a case report. Hartford JM, et al. **J Hand Surg [Am]** 1996 Jul;21(4):621–3 (7 ref.)

Closed rupture of a finger extensor following the Sauvé–Kapandji procedure: a case report. Wada T, et al.

J Hand Surg [Am] 1997 Jul;22(4):705–7

Simultaneous rupture of both flexor tendons in a finger [letter; comment] Lanzetta M, et al. **J Hand Surg [Br]** 1996 Nov; 21(6):1114–5. Comment on: J Hand Surg [Am] 1994 Mar;19(2):246–8.

Ring avulsion injuries in a field environment. Varela CD. **Mil Med** 1996 May;161(5):308–10 (9 ref.)

[Interposition of the extensor tendon in a subcapital metacarpal fracture] Blohm D, et al. **Ugeskr Laeger** 1996 Nov 18;158(47):6781 (Eng. Abstr.) **(Dan)**

[High-pressure injection injuries—underlying traumas are often disguised] Rotwitt AM, et al. **Ugeskr Laeger** 1997 Mar 10;159(11):1623–4 (Eng. Abstr.) **(Dan)**

[Mountaineers' finger: finger injuries in athletic mountaineers (letter; comment)] Bökenkamp R.
Ned Tijdschr Geneeskd 1996 Sep 28;140(39):1968. Comment on: Ned Tijdschr Geneeskd 1996 Jul 27;140(30):1543–7. **(Dut)**

[Tropical snakes as a risk of accidents even in Sweden. Four cases from the Norrbotten] Holmen C. **Lakartidningen** 1996 Nov 27;93(48):4409–11 **(Swe)**

HISTORY

Composite graft replacement of digital tips. 1. Before 1850 and after 1950. Elliot D, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):341–5

MICROBIOLOGY

A man who pricked his finger and smelled putrid for 5 years [see comments] Mills CM, et al. **Lancet** 1996 Nov 9; 348(9037):1282. Comment in: Lancet 1996 Dec 21–28;348(9043):1736. Comment in: Lancet 1996 Dec 21–28;348(9043):1737.

[Seal fingers and other infections transmitted from seals] Krag ML, et al. **Ugeskr Laeger** 1996 Sep 2;158(36):5015–7 (31 ref.) (Eng. Abstr.) **(Dan)**

PATHOLOGY

Dislocations of the proximal interphalangeal joints of the long fingers. Anatomo-clinical study and therapeutic results. Schernberg F, et al. **Ann Chir Main** 1982;1(1):18–28 **(Eng, Fre)**

Large volar plate avulsion fracture of the base of the middle phalanx with rotational displacement: a report of three cases. Takami H, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):592–5

[What is your diagnosis? Electric burn] Sigrist T.
Schweiz Rundsch Med Prax 1997 Jul 2;86(27–28):1095–6 **(Ger)**

PHYSIOPATHOLOGY

Biomechanics of the intact and surgically repaired proximal interphalangeal joint collateral ligaments. Dzwierzynski WW, et al. **J Hand Surg [Am]** 1996 Jul;21(4):679–83

PSYCHOLOGY

Emotional disturbances in trauma patients during the rehabilitation phase: studies of posttraumatic stress disorder and alexithymia. Fukunishi I, et al.
Gen Hosp Psychiatry 1996 Mar;18(2):121–7

An interesting case of viper bite [letter] Saha BK, et al.
J Indian Med Assoc 1995 Oct;93(10):398–9

RADIOGRAPHY

Two cases of closed dislocation of the interphalangeal joint of the thumb. Nakae H, et al.
Arch Orthop Trauma Surg 1996;115(3–4):236–7

Transverse bayonet dislocation of the distal interphalangeal joint—a case report. Shetty PC, et al. **J Emerg Med** 1997 Mar–Apr;15(2):197–200

REHABILITATION

Flexor tendon repair in zone 2 followed by early active mobilization. Baktir A, et al. **J Hand Surg [Br]** 1996 Oct; 21(5):624–8

Fracture bracing for proximal phalanx fractures. Oxford KL, et al. **J Hand Ther** 1996 Oct–Dec;9(4):404–5

A device for tension adjustment on dynamic splints. Van Veldhoven G. **J Hand Ther** 1996 Oct–Dec;9(4):405–6

Metacarpal hand: classification and guidelines for microsurgical reconstruction with toe transfers. Wei FC, et al. **Plast Reconstr Surg** 1997 Jan;99(1):122–8

[Rehabilitation of hand injured co-workers from the occupational medicine viewpoint (exemplified by a chassis and montage automobile industry] Harwerth A.
Handchir Mikrochir Plast Chir 1997 Jul;29(4):218–21 (Eng. Abstr.) **(Ger)**

SURGERY

Replantation by arterialization of the venous system of amputated parts. Veselý J, et al. **Acta Chir Plast** 1995; 37(3):67–70

Percutaneous release for trigger finger in idiopathic and hemodialysis patients. Nagoshi M, et al.
Acta Med Okayama 1997 Jun;51(3):155–8

Isolated volar carpometacarpal dislocation of the fifth digit. Lintner SA, et al. **Am J Orthop** 1995 Dec;24(12):918–9

Treatment of old introclable lesions of the extensors of the middle finger by resection arthroplasty with implant. Iselin F, et al. **Ann Chir Main** 1982;1(1):11–7 **(Eng, Fre)**

Translocation of the fifth finger by intracarpal osteotomy. Le Viet D. **Ann Chir Main** 1982;1(1):45–56 (9 ref.) **(Eng, Fre)**

Homodigital neurovascular island flaps with "direct flow" vascularization. Adani R, et al. **Ann Plast Surg** 1997 Jan; 38(1):36–40

Thenar flap rehabilitated: a review of 20 cases. Barbato BD, et al. **Ann Plast Surg** 1996 Aug;37(2):135–9

Salvage of fingertip amputated at nail level: new surgical principles and treatments. Hirase Y. **Ann Plast Surg** 1997 Feb;38(2):151–7

Cutaneous pulse oximetry in the preoperative assessment of devascularized digits [letter] Isenberg JS, et al.
Ann Plast Surg 1996 Jun;36(6):659–61

A biomechanical analysis of the stability of titanium bone fixation systems in proximal phalangeal fractures. Prevel CD, et al. **Ann Plast Surg** 1996 Nov;37(5):473–81

Replantation of ring avulsion of index, long, and ring fingers. Tseng OF, et al. **Ann Plast Surg** 1996 Jun;36(6):625–8

Regeneration of sudomotor and sensory nerve fibres after digital replantation and microneurovascular toe-to-hand transfer. Ahčan U, et al. **Br J Plast Surg** 1997 Jun; 50(4):227–35

Temporary ectopic implantation for salvage of amputated digits [letter; comment] Cooper TM. **Br J Plast Surg** 1997 Feb;50(2):144. Comment on: Br J Plast Surg 1996 Apr;49(3):174–7.

Fingertip reconstruction with a dorsal island homodigital flap. Shibu MM, et al. **Br J Plast Surg** 1997 Feb;50(2):121–4

Digital reconstruction with island flaps. Foucher G, et al. **Clin Plast Surg** 1997 Jan;24(1):1–32 (80 ref.)

Microvascular reconstruction of the distal digits by partial toe transfer. el-Gammal TA, et al. **Clin Plast Surg** 1997 Jan;24(1):49–55 (36 ref.)

Advances in digital replantation. Merle M, et al.
Clin Plast Surg 1997 Jan;24(1):87–105 (27 ref.)

Advances in reconstruction of digital joints. Schenck RR. **Clin Plast Surg** 1997 Jan;24(1):175–89 (33 ref.)

Soft-tissue defects of the digits. Coverage considerations. Goitz RJ, et al. **Hand Clin** 1997 May;13(2):189–205 (50 ref.)

Neurosensory free flaps. Digits and hand. Halbert CF, et al. **Hand Clin** 1997 May;13(2):251–62 (58 ref.)

Salvaging the "unsalvageable" digit. Zachary SV, et al.
Hand Clin 1997 May;13(2):239–49 (59 ref.)

Nail gun injury: a barbed problem. Armstrong AP, et al.
J Accid Emerg Med 1996 May;13(3):210

Transfer of a severely damaged digit to reconstruct an amputated thumb. Foucher G, et al.
J Bone Joint Surg Am 1996 Dec;78(12):1889–96

Extensor carpi radialis brevis avulsion fracture of the long finger metacarpal: a case report. Cobbs KF, et al.
J Hand Surg [Am] 1996 Jul;21(4):684–6

Biomechanics of the intact and surgically repaired proximal interphalangeal joint collateral ligaments. Dzwierzynski WW, et al. **J Hand Surg [Am]** 1996 Jul;21(4):679–83

Actinomycetoma of the phalanx in an immunocompromised patient: a case report. Kocher MS, et al.
J Hand Surg [Am] 1996 May;21(3):515–7

Pulp neurovascular island flap for finger amputation. Lanzetta M, et al. **J Hand Surg [Am]** 1996 Sep;21(5):918–21

Staged flexor tendon reconstruction using pedicled tendon graft from the flexor digitorum superficialis. Naam NH. **J Hand Surg [Am]** 1997 Mar;22(2):323–7

Innervated radial thenar flap for sensory reconstruction of fingers. Omokawa S, et al. **J Hand Surg [Am]** 1996 May; 21(3):373–80

Lengthening of the finger fillet flap to cover dorsal wrist defects. al-Qattan MM. **J Hand Surg [Am]** 1997 May; 22(3):550–1

Simplified functional splinting after extensor tenorrhaphy. Slater RR Jr, et al. **J Hand Surg [Am]** 1997 May; 22(3):445–51

Transplantation of second and third toes to the hand [letter; comment] Tsai TM. **J Hand Surg [Am]** 1996 May;21(3):532 . Comment on: J Hand Surg [Am] 1995 May;20(3 Pt 2):S34–45.

Replantation and revascularization at the transmetacarpal level: long-term functional results. Weinzweig N, et al.
J Hand Surg [Am] 1996 Sep;21(5):877–83

A relatively atraumatic method of retrieving retracted digital flexor tendons. Adeniran A, et al. **J Hand Surg [Br]** 1997 Feb;22(1):122–4

Flexor tendon repair in zone 2 followed by early active mobilization. Baktir A, et al. **J Hand Surg [Br]** 1996 Oct; 21(5):624–8

Management of nail-bed fracture-lacerations using a tension-band suture. Bindra RR. **J Hand Surg [Br]** 1996 Nov;21(6):1111–3

Palmar plate interposition (Tupper) arthroplasty for post-traumatic metacarpophalangeal osteoarthritis. Bolis GU, et al. **J Hand Surg [Br]** 1997 Feb;22(1):94–5

Very distal finger amputations: replantation or "reposition-flap" repair? Dubert T, et al.
J Hand Surg [Br] 1997 Jun;22(3):353–8

External fixation for comminuted phalangeal fractures. A biomechanical cadaver study. Fitoussi F, et al.
J Hand Surg [Br] 1996 Dec;21(6):760–4

Combined fracture of the hook of the hamate and palmar dislocation of the fifth carpometacarpal joint. Garcia-Elias M, et al. **J Hand Surg [Br]** 1996 Aug;21(4):446–50

The reverse pedicle heterodigital cross-finger island flap. Germann G, et al. **J Hand Surg [Br]** 1997 Feb;22(1):25–9

Cardiac arrhythmia caused by a Kirschner wire inside the heart. An unusual complication of finger osteosynthesis. Haapaniemi TA, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):402–4

Replantation-revascularization and primary amputation in major hand injuries. Resources spent on treatment and the indirect costs of sick leave in Sweden. Holmberg J, et al.
J Hand Surg [Br] 1996 Oct;21(5):576–80

The central slip attachment fracture. Imatami J, et al.
J Hand Surg [Br] 1997 Feb;22(1):107–9

Results of dynamic splintage following extensor tendon repair. Ip WY, et al. **J Hand Surg [Br]** 1997 Apr;22(2):283–7

Biodegradable pins versus Kirschner wires in hand surgery. Jensen CH, et al. **J Hand Surg [Br]** 1996 Aug;21(4):507–10

Toe to hand transfer in children. Part 1: technical aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):723–34

Toe to hand transfer in children. Part 2: Functional and psychological aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):735–45

Complete avulsion of the palmar cortex of the distal phalanx. Kevu JE, et al. **J Hand Surg [Br]** 1996 Dec;21(6):758–9

Early active mobilization after second stage flexor tendon grafts. Khan K, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):372–4

The dorsal middle phalangeal finger flap. Mid-term results of 43 cases. Leupin P, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):362–71

Fixation for comminuted phalangeal fractures. A biomechanical study of five methods. Lu WW, et al.
J Hand Surg [Br] 1996 Dec;21(6):765–7

Flexor tendon ruptures caused by an intraosseous ganglion of the hook of the hamate. Masada K, et al.
J Hand Surg [Br] 1997 Jun;22(3):383–5

The direct midlateral approach with lateral enlargement of the pulley system for repair of flexor tendons in fingers. Messina A, et al. **J Hand Surg [Br]** 1996 Aug;21(4):463–8

Composite graft replacement of digital tips. 2. A study in children. Moiemen NS, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):346–52

A further tendon retrieval trick. Sandow MJ.
J Hand Surg [Br] 1997 Feb;22(1):125–7

Partial lacerations of flexor tendons in children. Primary repair versus conservative treatment. Stahl S, et al.
J Hand Surg [Br] 1997 Jun;22(3):377–80

Subcutaneous extensor tendon rupture associated with calcium pyrophosphate dihydrate crystal deposition disease of the wrist. Taniguchi Y, et al. **J Hand Surg [Br]** 1997 Jun;22(3):386–7

Complete avulsion of the extensor apparatus of the little finger. Watanabe K, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):281–2

Ring avulsion injuries: microsurgical management. Adani R, et al. **J Reconstr Microsurg** 1996 Apr;12(3):189–94

Replantation and revascularization of the digits in a community microsurgical practice. Pomerance J, et al.
J Reconstr Microsurg 1997 Apr;13(3):163–70

The arterialized antebrachial skin flap for hand reconstruction. Reynoso R, et al. **J Reconstr Microsurg** 1997 May;13(4):267–75

Flexor tendon graft for late management of isolated rupture of the profundus tendon. Liu TK, et al. **J Trauma** 1997 Jul;43(1):103–6

Application of different types of free foot flaps in hand surgery. Li X, et al. **Microsurgery** 1995;16(11):730–8

Eight years experience in crush and avulsion type finger amputation. Ozerkan F, et al. **Microsurgery** 1995; 16(11):739–42

The lateral arm fascial free flap for resurfacing of the hand and fingers. Chen HC, et al. **Plast Reconstr Surg** 1997 Feb; 99(2):454–9

Arterialized venous flaps from the thenar and hypothenar regions for repairing finger pulp tissue losses. Iwasawa M, et al. **Plast Reconstr Surg** 1997 May;99(6):1765–70

The venocutaneous fistula: a new technique for reducing venous congestion in replanted fingertips. Kamei K, et al.
Plast Reconstr Surg 1997 May;99(6):1771–4

A proximal interphalangeal joint fracture-dislocation treated by limited open (percutaneous) reduction and dynamic external fixation [letter] Skoff HD. **Plast Reconstr Surg** 1997 Feb;99(2):587–9 (23 ref.)

A new flap from the dorsum of the first intermetacarpal area: the first dorsal intermetacarpal flap. Tezcan M, et al.
Plast Reconstr Surg 1997 Sep;100(4):914–8

Free vascularized transfer of the metatarsophalangeal and proximal interphalangeal joints of the second toe for reconstruction of the metacarpophalangeal joints of the thumb and index finger using a single vascular pedicle. Tsai TM, et al. **Plast Reconstr Surg** 1996 Nov;98(6):1080–6

Optimization of the MGH repair using an algorithm for tenorrhaphy evaluation. Wassermann RJ, et al.
Plast Reconstr Surg 1997 May;99(6):1688–94

Toe-to-hand transfer for traumatic digital amputations in children and adolescents. Wei FC, et al.
Plast Reconstr Surg 1997 Sep;100(3):605–9

Flap defatting with an ultrasonic surgical aspirator. Yamanaka K, et al. **Plast Reconstr Surg** 1997 Mar; 99(3):888–91

Substantial volar defects of the fingers treated with free thenar flaps. Kamei K, et al.
Scand J Plast Reconstr Surg Hand Surg 1997 Mar; 31(1):87–90

[Value of Swanson implants in complex traumatic lesions of the proximal interphalangeal joint] Gérard F, et al. **Ann Chir Main Memb Super** 1996;15(3):158–66 (Eng. Abstr.) **(Fre)**

[Hueston's flap in distal digital amputations. Apropos of 43 cases] Dallassera M, et al. **Ann Chir Plast Esthet** 1996 Jun; 41(3):235–9 (Eng. Abstr.) **(Fre)**

[Treatment of cutaneous loss of substance of the dorsal surface of the proximal interphalangeal joints of fingers. A general review] Dap F, et al. **Ann Chir Plast Esthet** 1996 Jun;41(3):240–50 (27 ref.) (Eng. Abstr.) **(Fre)**

[Loss cutaneous substance on fingers in children. Indications for local flaps] Dautel G. **Ann Chir Plast Esthet** 1996 Jun; 41(3):277–83 (Eng. Abstr.) **(Fre)**

[Cover plasties of distal finger amputations. Focus on techniques and indications] Foucher G, et al. **Ann Chir Plast Esthet** 1996 Jun;41(3):227–34 (Eng. Abstr.) **(Fre)**

[Boomerang flap. A true single-stage pedicled cross finger flap] Legaillard P, et al. **Ann Chir Plast Esthet** 1996 Jun; 41(3):251–8 (Eng. Abstr.) **(Fre)**

[Anterior tenoarthrolysis in flexion contracture of the fingers. Apropos of 41 cases] Foucher G, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):529–34 (Eng. Abstr.) **(Fre)**

[Reconstruction of digital pulp by pulp tissue transfer of the toe. Apropos of 15 cases] Guelmi K, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):446–52 (Eng. Abstr.) **(Fre)**

[Carpometacarpal dislocations of the long fingers. Apropos of 26 cases with review of 20 cases] Guimaraes RM, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(7):598–607 (Eng. Abstr.) **(Fre)**

[Osteocartilaginous reconstruction, research and clinical application] Eberlin JL, et al. **Swiss Surg** 1996;2(6):264–8 (Eng. Abstr.) **(Fre)**

[AO external mini-fixateur for the hand bones. Surgical technique and initial experiences] Fricker R, et al. **Chirurg** 1996 Jul;67(7):760–3 (Eng. Abstr.) **(Ger)**

[Arteriovenous dysplasia of the hand. A case report and attempts at conservative therapy] Bahm J, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):39–42 (Eng. Abstr.) **(Ger)**

[Causes for reoperations after osteosyntheses of finger and mid-hand fractures] Bartelmann U, et al. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):204–8 (Eng. Abstr.) **(Ger)**

[Functional results following surgical management of palmar fibrocartilagenous injuries] Das Gupta K, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):249–53 (Eng. Abstr.) **(Ger)**

[Comment on the contribution: 202 toe transplants to the hand (letter; comment)] Graf P, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):53–4. Comment on: Handchir Mikrochir Plast Chir 1995 Mar;27(2):105–10. **(Ger)**

[Outcome of flexor tenolysis after injury in zone 2] Hahn P, et al. **Handchir Mikrochir Plast Chir** 1996 Jul; 28(4):198–203 (Eng. Abstr.) **(Ger)**

[Restoration of grip function in both hands after frostbite of all fingers and toes. A case report] Hofmann AK, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):50–4 (Eng. Abstr.) **(Ger)**

[Initial results of treatment of a two-stage surgical technique of chronic flexor tendon injuries with Kleinert modified early mobilization] Kaltenecker G, et al. **Handchir Mikrochir Plast Chir** 1996 Jul;28(4):187–90 (Eng. Abstr.) **(Ger)**

[Analysis of change in finger function after flexor tenolysis] Koller R, et al. **Handchir Mikrochir Plast Chir** 1996 Jul; 28(4):204–9 (Eng. Abstr.) **(Ger)**

[Fresh injuries of the tractus intermedius of the extensor aponeurosis. Diagnosis, classification and therapy] Rappold G, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):42–9 (Eng. Abstr.) **(Ger)**

[Washington regime after-care of flexor tendon injuries in zone 2] Wittemann M, et al. **Handchir Mikrochir Plast Chir** 1996 Jul;28(4):191–7 (Eng. Abstr.) **(Ger)**

[Fibrinolytic treatment of postoperative ischemia of the hand caused by thrombotic obstruction of the interdigital artery: a case] Salvatori FM, et al. **Radiol Med (Torino)** 1996 Sep; 92(3):328–31 **(Ita)**

[Replantation of amputated limb and digit] Tamai S. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jul;70(7):380–90 (8 ref.) **(Jpn)**

[Treatment of complications of plastic surgery on the tendons of finger flexors] Miguleva IIu. **Khirurgiia (Mosk)** 1996; (2):92–6 (Eng. Abstr.) **(Rus)**

[Plastic microsurgery of the fingers defects] Milanov NO, et al. **Khirurgiia (Mosk)** 1997;(2):52–5 (Eng. Abstr.) **(Rus)**

[Current problems in the reconstructive surgery of the locomotor apparatus in children] Kupatadze DD, et al. **Vestn Khir Im I I Grek** 1997;156(2):94–6 (Eng. Abstr.) **(Rus)**

THERAPY

Proximal interphalangeal joint injuries of the hand. Part II: Treatment and complications. Benson LS, et al. **Am J Orthop** 1996 Aug;25(8):527–30 (25 ref.)

Long-term results of splintage for mallet finger. Foucher G, et al. **Int Orthop** 1996;20(3):129–31

Mallet deformity of the finger. Five-year follow-up of conservative treatment. Okafor B, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):544–7

Results of zone II flexor tendon lacerations in civilians treated by the Washington regimen. Schenck RR, et al. **J Hand Surg [Br]** 1996 Nov;21(6):984–7

Adjustable first webspace splint. Haelterman JC. **J Hand Ther** 1996 Jul-Sep;9(3):249

Dynamic extension assist splinting of acute central slip lacerations. Maddy LS, et al. **J Hand Ther** 1997 Jul-Sep; 10(3):206–12

Dynamic extension splint: Rotterdam design. Schreuders TA, et al. **J Hand Ther** 1997 Jul-Sep;10(3):240–1

Irreducible dorsal dislocation of the distal interphalangeal joint: case report and literature review. Abouzahr MK, et al. **J Trauma** 1997 Apr;42(4):743–5 (9 ref.)

A simple method to prepare a custom-made finger splint using a disposable hypodermic syringe [letter] Dalal M, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2102–3

[An experimental study of a cyanoacrylate biological adhesive in view of its use in the fixation of various fractures of the fingers] Caroli A, et al. **Ann Chir Main Memb Super** 1997;16(2):138–45 (Eng. Abstr.) **(Fre)**

[A small distal osseous avulsion of the fibrocartilago palmaris of the middle finger interphalangeal joints. Results of conservative therapy] Haferkamp H. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):187–91 (Eng. Abstr.) **(Ger)**

[Results of conservative treatment of bony palmar plate avulsion of the middle joint (type I and type II according to Hintringer and Leixnering)] Janousek A, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):242–5 (Eng. Abstr.) **(Ger)**

[Functional treatment of the interphalangeal joints in palmar ligament rupture] Lutz M, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):239–41 (Eng. Abstr.) **(Ger)**

[Conservative treatment of stable finger joint dislocations using the Stack splint] Straub G, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):246–8 (Eng. Abstr.) **(Ger)**

[Treatment of intraarticular finger fractures with the help of the traction system of "pins and rubbers" according to Y. Suzuki] Jablecki J, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):109–13 (Eng. Abstr.) **(Pol)**

ULTRASONOGRAPHY

High resolution sonography of the flexor tendons in trigger fingers. Serafini G, et al. **J Ultrasound Med** 1996 Mar; 15(3):213–9

[Self-sonographic follow-up of bone refraction at a fracture site of the distal phalanx of the thumb] Barzilai M. **Harefuah** 1996 May 1;130(9):647–8 **(Heb)**

VIROLOGY

Reduction in the incidence of infection by hepatitis C virus in children with acute lymphoblastic leukemia after suspension of sampling from the finger. Dibenedetto SP, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):265–6

FINGER JOINT

Giant cell tumor of tendon sheath. Schleicher SM. **Cutis** 1997 Mar;59(3):133–4

Periarticular ectopic calcinosis probably due to 1 alpha-OH-vitamin D3 therapy, and successful treatment with bisphosphonate compound in a patient with systemic lupus erythematosus. Miyata M, et al. **Fukushima J Med Sci** 1996 Dec;42(1–2):39–46 (28 ref.)

Kirner's deformity: a case report and review. Scott CE, et al. **Iowa Orthop J** 1996;16:167–9

The palmar aponeurosis pulley as a cause of trigger finger. A report of two cases. Sherman PJ, et al. **J Bone Joint Surg Am** 1996 Nov;78(11):1753–4

Pre- and postimplantation dynamic mechanical properties of silastic HP-100 finger joints. Naidu SH, et al. **J Hand Surg [Am]** 1997 Mar;22(2):299–301

Congenital triggering of the index finger at the A2 pulley. Hirata H, et al. **J Hand Surg [Br]** 1996 Oct;21(5):609–11

Avascular necrosis of an index sesamoid: a case report. Takei TR, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1104–5

Pachydermodactyly a rare cause of finger joint swelling [letter] Costa MM, et al. **J Rheumatol** 1995 Dec; 22(12):2374–5

Intraarticular envenomation by Trimeresurus flavomaculatus mcgregori resulting in joint destruction. Clark RF, et al. **Toxicon** 1997 Jun;35(6):837–42

[Recent palmar dislocations of the proximal interphalangeal joint] Auquit-Auckbur I, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):60–4 (Eng. Abstr.) **(Fre)**

[Functional treatment of the interphalangeal joints in palmar ligament rupture] Lutz M, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):239–41 (Eng. Abstr.) **(Ger)**

[Results of a multicenter study of chondroitin sulfate (Condrosulf) use in arthroses of the finger, knee and hip joints] Leeb BF, et al. **Wien Med Wochenschr** 1996; 146(24):609–14 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

Proximal interphalangeal joint injuries of the hand. Part I: anatomy and diagnosis. Bailie DS, et al. **Am J Orthop** 1996 Jul;25(7):474–7

The insertion of the extensor digitorum tendon on the proximal phalanx. Van Sint Jan S, et al. **J Hand Surg [Am]** 1996 Jan;21(1):69–76

High resolution magnetic resonance imaging of the proximal interphalangeal joints. Correlation with histology and production of a three-dimensional data set [see comments] Lewis AR, et al. **J Hand Surg [Br]** 1996 Aug;21(4):488–95 . Comment in: J Hand Surg [Br] 1997 Apr;22(2):288.

MRI of the proximal interphalangeal joints [letter; comment] Slattery PG. **J Hand Surg [Br]** 1997 Apr;22(2):288. Comment on: J Hand Surg [Br] 1996 Aug;21(4):488–95.

BLOOD SUPPLY

Laser Doppler perfusion imaging of proximal interphalangeal joints in patients with rheumatoid arthritis. Ferrell WR, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):649–52

INJURIES see FINGER INJURIES

METABOLISM

Intraarticular apatite crystal deposition as a predictor of erosive osteoarthritis of the fingers [letter; comment] Jones JG. **J Rheumatol** 1995 Oct;22(10):2007. Comment on: J Rheumatol 1994 Nov;21(11):2164–5.

PATHOLOGY

Erosive azotemic osteoarthropathy of the hands in chronic ambulatory peritoneal dialysis and hemodialysis. Gonzalez T, et al. **Clin Exp Rheumatol** 1997 Jul-Aug;15(4):367–71

The second annular pulley: a histologic examination [letter; comment] Badalamente MA, et al. **J Hand Surg [Am]** 1996 May;21(3):529–30. Comment on: J Hand Surg [Am] 1995 Jul;20(4):632–5.

"Congenital" trigger thumb caused by intratendinous granulation tissue. Chia J, et al. **J Hand Surg [Br]** 1996 Oct;21(5):612–3

[A proposal for the MR staging of early rheumatoid arthritis in the metacarpophalangeal and proximal interphalangeal joints] Scheck RJ, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):215–20 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

A graphic analysis of the biomechanics of the massless bi-articular chain. application to the proximal bi-articular chain of the human finger. Leijnse JN. **J Biomech** 1996 Mar;29(3):355–66

Efficiency of the flexor tendon pulley system in human cadaver hands. Rispler D, et al. **J Hand Surg [Am]** 1996 May;21(3):444–50

Biomechanical changes of cadaveric finger flexion: the effect of wrist position and of the transverse carpal ligament and palmar and forearm fasciae. Kang HJ, et al. **J Hand Surg [Br]** 1996 Nov;21(6):963–8

PHYSIOPATHOLOGY

Thumb interphalangeal joint flexion through the vinculum brevis: a case report. Zielinski CJ. **J Hand Surg [Am]** 1996 Sep;21(5):912–3

A method of two-dimensional measurement for evaluating finger motion impairment [letter; comment] Hage JJ, et al. **J Hand Surg [Br]** 1996 Aug;21(4):564–5. Comment on: J Hand Surg [Br] 1995 Oct;20(5):691–5.

The contractility of knuckle pads. An in vitro study. Irwin LR, et al. **J Hand Surg [Br]** 1997 Feb;22(1):110–2

Diagnosis of closed central slip injuries. A cadaveric analysis of non-invasive tests. Rubin J, et al. **J Hand Surg [Br]** 1996 Oct;21(5):614–6

RADIOGRAPHY

Definitions of osteoarthritis in the knee and hand. Jacobson LT. **Ann Rheum Dis** 1996 Sep;55(9):656–8 (23 ref.)

X-ray changes after expanded polytetrafluoroethylene (Gore-Tex) interpositional arthroplasty. Greenberg JA, et al. **J Hand Surg [Am]** 1997 Jul;22(4):658–63

Roentgenographic evaluation of erosive changes in early cases of rheumatoid arthritis: using magnified view. Rathour DP, et al. **J Indian Med Assoc** 1995 May; 93(5):173–4

The association of radiographic changes of osteoarthritis of the hand and hip in elderly women [see comments] Hochberg MC, et al. **J Rheumatol** 1995 Dec;22(12):2291–4 . Comment in: J Rheumatol 1997 Jul;24(7):1452–3.

Nodal osteoarthritis and gout: a report of four new cases. Foldes K, et al. **Skeletal Radiol** 1996 Jul;25(5):421–4

[Radiologic healing phenomena in chronic polyarthritis treated with methotrexate or sodium aurothiomalate (published erratum appears in Z Rheumatol 1996 Sep-Oct;55(5):361)] Menninger H, et al. **Z Rheumatol** 1996 Jul-Aug;55(4):241–8 (Eng. Abstr.) **(Ger)**

SURGERY

Tendon interposition arthroplasty for basal joint arthrosis.

38 thumbs followed for 4 years. Kleven T, et al. **Acta Orthop Scand** 1996 Dec;67(6):575–7

An experimental study of small-joint compression arthrodesis. Breibart AS, et al. **Ann Plast Surg** 1997 Jul; 39(1):47–52

Swanson proximal interphalangeal joint arthroplasty in patients with rheumatoid arthritis. Ashworth CR, et al. **Clin Orthop** 1997 Sep;(342):34–7

Ligament reconstruction basal joint arthroplasty without tendon interposition. Gerwin M, et al. **Clin Orthop** 1997 Sep;(342):42–5

Silicone rubber implants for replacement of arthritic or destroyed joints in the hand. 1968 [classical article] Swanson AB. **Clin Orthop** 1997 Sep;(342):4–10

Distal interphalangeal joint silicone interpositional arthroplasty of the hand. Wilgis EF. **Clin Orthop** 1997 Sep; (342):38–41

Advances in reconstruction of digital joints. Schenck RR. **Clin Plast Surg** 1997 Jan;24(1):175–89 (33 ref.)

Development of a surface replacement arthroplasty for proximal interphalangeal joints. Linscheid RL, et al. **J Hand Surg [Am]** 1997 Mar;22(2):286–98

In vivo inflammatory response to silicone elastomer particulate debris. Naidu SH, et al. **J Hand Surg [Am]** 1996 May;21(3):496–500

Tensile properties of canine intrasynovial and extrasynovial flexor tendon autografts. Noguchi M, et al. **J Hand Surg [Am]** 1997 May;22(3):457–63

Distal interphalangeal joint arthrodesis comparing tension-band wire and Herbert screw: a biomechanical and dimensional analysis. Wyrsch B, et al. **J Hand Surg [Am]** 1996 May;21(3):438–43

Bilateral osteoarthritis of the trapeziometacarpal joint treated by bilateral tendon interposition arthroplasty. Damen A, et al. **J Hand Surg [Br]** 1997 Feb;22(1):96–9

The central slip attachment fracture. Imatami J, et al. **J Hand Surg [Br]** 1997 Feb;22(1):107–9

Effectiveness of the chevron arthrodesis in small joints of the hand. Pribyl CR, et al. **J Hand Surg [Br]** 1996 Nov; 21(6):1052–8

A proximal interphalangeal joint fracture-dislocation treated by limited open (percutaneous) reduction and dynamic external fixation [letter] Skoff HD. **Plast Reconstr Surg** 1997 Feb;99(2):587–9 (23 ref.)

[Primary metacarpophalangeal and proximal interphalangeal arthrosis of the hand. Indications and results of 27 DJOA arthroplasty] Condamine JL, et al. **Ann Chir Main Memb Super** 1997;16(1):66–78 (Eng. Abstr.) **(Fre)**

[Value of Swanson implants in complex traumatic lesions of the proximal interphalangeal joint] Gérard F, et al. **Ann Chir Main Memb Super** 1996;15(3):158–66 (Eng. Abstr.) **(Fre)**

[Treatment of cutaneous loss of substance of the dorsal surface of the proximal interphalangeal joints of fingers. A general review] Dap F, et al. **Ann Chir Plast Esthet** 1996 Jun;41(3):240–50 (27 ref.) (Eng. Abstr.) **(Fre)**

[Trapezoid-metacarpal arthrodesis] Kenesi C, et al. **Chirurgie** 1996;121(6):487–91 (Eng. Abstr.) **(Fre)**

[Results of interphalangeal joint arthrolysis in patients with Dupuytren disease] Belusa L, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):158–63 (Eng. Abstr.) **(Ger)**

[Flexor pulleys of the fingers. Anatomy, biomechanics, reconstruction] Hahn P, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):265–70 (Eng. Abstr.) **(Ger)**

[A method for reconstruction of the A1 retinaculum in the flexor pollicis longus sheath with extensor pollicis brevis tendon] Chmiel Z. **Chir Narzadow Ruchu Ortop Pol** 1996; 61(3):225–7 (Eng. Abstr.) **(Pol)**

ULTRASONOGRAPHY

Pitfalls in sonography of the Gamekeeper's thumb. Hergan K, et al. **Eur Radiol** 1997;7(1):65–9

FINGERPRINTS see **DERMATOGLYPHICS**

FINGERPRINTS, DNA see **DNA FINGERPRINTING**

FINGERPRINTS, NUCLEOTIDE see **NUCLEOTIDE MAPPING**

FINGERPRINTS, PEPTIDE see **PEPTIDE MAPPING**

FINGERS

Scanning electron microscopy of the basal surface of the epidermis of human digits. Yamada N, et al. **Acta Anat (Basel)** 1996;155(4):242–8

A 63-year-old woman with right small finger pain. Lopes TD, et al. **Am J Orthop** 1997 Feb;26(2):169–71

Development of a vibratory white finger prevention program for shipyard workers: an exploratory study. Johnson KL, et al. **Am J Prev Med** 1996 Nov–Dec;12(6):478–81

Sensory loss of the distal phalanx caused by pulse oximeter probe [letter] Clark M, et al. **Anaesthesia** 1997 May; 52(5):508–9

Chronic subungual hematomas: a presumed immunologic puzzle resolved with a diagnosis of child abuse. Gavin LA, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):103–5

Picture of the month. Tuberculous dactylitis. Salimpour R, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):851–2

Dactylitis in patients with seronegative spondylarthropathy. Assessment by ultrasonography and magnetic resonance imaging. Olivieri I, et al. **Arthritis Rheum** 1996 Sep; 39(9):1524–8

Comparative biomechanical analysis of a new circumferential flexor tendon repair and a modified Kessler repair. Ion LE, et al. **Br J Plast Surg** 1997 Jun;50(4):236–41

Removal of fish-hooks. Reid AJ. **Can Fam Physician** 1997 Jun;43:1063

Hand-arm vibration and terrain vehicles. Anttonen H, et al. **Cent Eur J Public Health** 1995;3 Suppl:123–5

Experience on the reversibility of the vibration-induced white finger disease. Dupuis H, et al. **Cent Eur J Public Health** 1995;3 Suppl:19–21

Low intensity vibration exposure in postmen. Tominaga Y. **Cent Eur J Public Health** 1995;3 Suppl:118–9

Fibro-osseous pseudotumor of the digits: description of a case. Calista F, et al. **Chir Organi Mov** 1996 Jan–Mar; 81(1):69–72 **(Eng, Ita)**

Clubbing of single digit: an unusual cause. De Smet L, et al. **Clin Rheumatol** 1996 May;15(3):310–1

Squamous cell carcinoma of the nail bed. Lai CS, et al. **Cutis** 1996 May;57(5):341–5 (25 ref.)

Isometric pinch force control and learning in older adults. Lazarus JA, et al. **Exp Aging Res** 1997 Apr–Jun; 23(2):179–99

Gestational trophoblastic disease presenting as a large metastasis to the finger. Hetzel DJ, et al. **Gynecol Oncol** 1996 Oct;63(1):123–6

Finger deformities in rheumatoid arthritis. Rizio L, et al. **Hand Clin** 1996 Aug;12(3):531–40 (25 ref.)

Metastatic tumours of the hand. A case report. Saglike Y, et al. **Int Orthop** 1996;20(2):123–4

The natural history of the neglected felon. Watson PA, et al. **Iowa Orthop J** 1996;16:164–6

Surgical pearl: surgical treatment of tumor-sized granuloma annulare of the fingers. Shelley WB, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):473–4

A low profile human tendon force transducer: the influence of tendon thickness on calibration. Dennerlein JT, et al. **J Biomech** 1997 Apr;30(4):395–7

Tissue pressures in pyogenic flexor tenosynovitis of the finger. Compartment syndrome and its management. Schnall SB, et al. **J Bone Joint Surg Br** 1996 Sep; 78(5):793–5

Multiple new-onset subcutaneous nodules of the upper extremity digits: giant cell tumor of tendon sheath and lipoma. Cohen PR. **J Dermatol** 1996 Apr;23(4):290–2

Injection versus surgery in the treatment of trigger finger. Benson LS, et al. **J Hand Surg [Am]** 1997 Jan;22(1):138–44

Synchronous glomus tumors in a distal digit: a case report. Noor MA, et al. **J Hand Surg [Am]** 1997 May;22(3):508–10

Steroid versus placebo injection for trigger finger [letter; comment] Robinson JH. **J Hand Surg [Am]** 1996 May; 21(3):530. Comment on: J Hand Surg [Am] 1995 Jul;20(4):628–31.

Melorheostosis of the skeletally immature hand: a case report and long-term follow-up evaluation. Rozencwaig R, et al. **J Hand Surg [Am]** 1996 Jul;21(4):703–6

Congenital trigger digit. Steenwerckx A, et al. **J Hand Surg [Am]** 1996 Sep;21(5):909–11

Fibro-osseous pseudotumor that may be mistaken for a malignant tumor in the hand: a case Report and review of the literature. Tang JB, et al. **J Hand Surg [Am]** 1996 Jul;21(4):714–6 (5 ref.)

Fracture of the hook of hamate with rupture of the flexor tendons of the small finger in a rheumatoid patient: a case report. Yang SS, et al. **J Hand Surg [Am]** 1996 Sep; 21(5):916–7

Metastatic tumours of the hand. Report of six additional cases. Castelló JR, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):547–50

Idiopathic multicentric osteolysis principally affecting the phalanges of the hands and feet. Downing ND, et al. **J Hand Surg [Br]** 1996 Oct;21(5):656–9 (16 ref.)

The distribution of fibrous flexor sheath ganglions. al-Khawashki H, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):226–7

Long-term follow-up of 50 Duke silicone prosthetic fingers. O'Farrell DA, et al. **J Hand Surg [Br]** 1996 Oct; 21(5):696–700

Myxoma of the hand. al-Qattan MM. **J Hand Surg [Br]** 1996 Oct;21(5):690–2

Metastases to the hand from carcinoma of the lower alveolus. Viswanathan PN, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):544–6

MP/PIP adjustable digit blocking splint. Rose H. **J Hand Ther** 1996 Jul–Sep;9(3):247–8

Strength measurements of the lumbrical muscles. Schreuders TA, et al. **J Hand Ther** 1996 Oct–Dec;9(4):303–5

Trigger finger: not always work related. Kasdan ML, et al. **J Ky Med Assoc** 1996 Nov;94(11):498–9

Re: semen of smokers and cervical cancer risk [letter; comment] Whidden P. **J Natl Cancer Inst** 1997 Apr 2; 89(7):520. Comment on: J Natl Cancer Inst 1997 Jan 1;89(1):96–7.

Brachytelephalangic chondrodysplasia punctata in a female child. Peter MO, et al. **J Pediatr Orthop B** 1997 Jan; 6(1):24–6

Diagnostician's digit. A repercussion of percussion. Adams SL, et al. **JAMA** 1997 Apr 9;277(14):1168

Changes over a workshift in aesthesiometric and vibrotactile perception thresholds of workers exposed to intermittent hand transmitted vibration from impact wrenches. Bovenzi M, et al. **Occup Environ Med** 1997 Aug;54(8):577–87

Comparison of bone densitometry of the phalanges, distal forearm and axial skeleton in early postmenopausal women participating in the EPIC Study. Ravn P, et al. **Osteoporos Int** 1996;6(4):308–13

Prediction of peripheral fracture risk by quantitative microdensitometry. Vecht-Hart CM, et al. **Prev Med** 1997 Jan–Feb;26(1):86–91

A case of digital glomus tumour: misdiagnosis and verification by magnetic resonance imaging. Case report. Ekerot L. **Scand J Plast Reconstr Surg Hand Surg** 1996 Jun;30(2):151–2

An anomalous flexor digitorum superficialis to the index finger. Honing ML, et al. **Surg Radiol Anat** 1995; 17(4):339–41

Phalangeal intraosseous well-differentiated osteosarcoma of the hand. Sugano I, et al. **Virchows Arch** 1997 Feb; 430(2):185–9

[Simultaneous occurrence of trigger fingers and carpal tunnel syndrome] Pedersen MS, et al. **Ugeskr Laeger** 1997 Sep 15;159(38):5674–5 (Eng. Abstr.) **(Dan)**

[Recurrent infantile digital fibromatosis] Werther K, et al. **Ugeskr Laeger** 1997 Jul 21;159(30):4656–7 (Eng. Abstr.) **(Dan)**

[Apropos of a case of epidermoid carcinoma metastasizing into the digital pulp] Horn GF. **Ann Chir Plast Esthet** 1996 Jun;41(3):308–10 (Eng. Abstr.) **(Fre)**

[A recurrent subcutaneous nodule in an infant] Moukassa D, et al. **Ann Pathol** 1997 Mar;17(1):55–6 **(Fre)**

[Vascular networks of the periphery of the finger nail] Sick H, et al. **Arch Anat Histol Embryol** 1993–94;75:47–60 (Eng. Abstr.) **(Fre)**

[Motor paresis with cheiro-oral topography due to small infarct in the internal capsule or the corona radiata] Takahashi N, et al. **Rinsho Shinkeigaku** 1997 Jan;37(1):7–12 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Deletion at 12p in a Japanese child with brachydactyly overlaps the assigned locus of brachydactyly with hypertension in a Turkish family [letter] Bähring S, et al. **Am J Hum Genet** 1997 Mar;60(3):732–5

Clinical analysis of a large kindred with the Pallister ulnar-mammary syndrome. Bamshad M, et al. **Am J Med Genet** 1996 Nov 11;65(4):325–31

Epidemiological analysis of rare polydactylies. Castilla EE, et al. **Am J Med Genet** 1996 Nov 11;65(4):295–303

The atrioventricular canal defect is the congenital heart disease connecting short rib-polydactyly and oral-facial-digital syndromes [letter; comment] Digilio MC, et al. **Am J Med Genet** 1997 Jan 10;68(1):110–2. Comment on: Am J Med Genet 1994 Nov 20;59(3):365–8.

Dermatoglyphics in patients with Cenani-Lenz type syndactyly: studies in a new case. Elçioglu N, et al. **Am J Med Genet** 1997 Jun 27;70(4):341–5

Autosomal dominant inheritance of hypothalamic hamartoma associated with polysyndactyly: heterogeneity or variable expressivity? Grebe TA, et al. **Am J Med Genet** 1996 Dec 11;66(2):129–37

Tetramelic mirror-image polydactyly and a de novo balanced translocation between 2p23.3 and 14q13. Kim KC, et al. **Am J Med Genet** 1997 Jan 10;68(1):70–3

Mental retardation, postaxial polydactyly, phalangeal hypoplasia, 2-3 toe syndactyly, unusual face, uncombable hair: new syndrome? Kozlowski K, et al. **Am J Med Genet** 1997 Jan 20;68(2):142–6

Craniosynostosis, Philadelphia type: a new autosomal dominant syndrome with sagittal craniosynostosis and syndactyly of the fingers and toes. Robin NH, et al. **Am J Med Genet** 1996 Mar 15;62(2):184–91

Another Arab patient with overlap of Váradi-Papp/Opitz trigonocephaly syndromes? Sabry MA, et al. **Am J Med Genet** 1997 Jan 10;68(1):54–7

Six patients with oral-facial-digital syndrome IV: the case for heterogeneity. Toriello HV, et al. **Am J Med Genet** 1997 Mar 31;69(3):250–60

A 10-year-old girl with a left little-finger deformity. Tiedeman JJ. **Am J Orthop** 1995 Dec;24(12):920–2

Jadassohn's sebaceous nevus and aphalangia [letter] Midón J, et al. **Ann Plast Surg** 1997 Apr;38(4):438–9

A syndrome of brachyphalangy, polydactyly and absent tibiae. Baraitser M, et al. **Clin Dysmorphol** 1997 Apr; 6(2):111–21

A boy with a cleft lip and palate, tritubercular incisors, and finger anomaly. Hennekam RC, et al. **Clin Dysmorphol** 1996 Oct;5(4):303–5

Isolated macrodactyly and Proteus syndrome [letter; comment] Lacombe D, et al. **Clin Dysmorphol** 1996 Jul; 5(3):255–7. Comment on: Clin Dysmorphol 1994 Oct;3(4):351–2.

Christian's spondylo-digital syndrome: second familial case. García-Cruz D, et al. **Clin Genet** 1995 Nov;48(5):268–71

Brachydactyly in a child with duplication-deficiency subsequent to t(15;20)(q25.2;p12.2)mat. Candidate regions on one or both chromosomes? Pfeiffer RA, et al. **Clin Genet** 1997 May;51(5):357–60

Scarring folliculitis in the ectrodactyly-ectodermal dysplasia-clefting syndrome. Histologic, scanning electron-microscopic and biophysical studies of hair. Trüeb

RM, et al. **Dermatology** 1997;194(2):191–4

Pulmonary metastasis from a benign giant-cell tumor of the hand: report of a case diagnosed by fine-needle aspiration cytology. Lawson L, et al. **Diagn Cytopathol** 1996 Aug; 15(2):157–60

Brachytelephalangy with mental retardation, peculiar face and short stature in two sibs. A new MCA/MR syndrome? Mégarbané A, et al. **Genet Couns** 1997;8(2):127–32

Central nervous system abnormalities in oculodentodigital dysplasia [letter] Schrander-Stumpel CT, et al. **Genet Couns** 1996;7(3):233–5 (9 ref.)

Spherophakia, nanophthalmia, hypoplastic ciliary body and glaucoma in brachydactyly-associated syndromes. Dietlein TS, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug; 234 Suppl 1:S187–92

Molecular mapping of a translocation breakpoint at 14q13 in a patient with mirror-image polydactyly of hands and feet. Matsumoto N, et al. **Hum Genet** 1997 Apr;99(4):450–3

Autosomal dominant hypertension and brachydactyly in a Turkish kindred resembles essential hypertension. Schuster H, et al. **Hypertension** 1996 Dec;28(6):1085–92

Prevention of post-operative "sublimis minus" deformity by modified surgical procedure at the donor finger. Beine A. **Indian J Lepr** 1997 Jan-Mar;69(1):33–41

Unfavourable results after surgical correction of claw fingers in leprosy. Malaviya GN. **Indian J Lepr** 1997 Jan-Mar; 69(1):43–52

Comparative study of some procedures for correction of claw fingers in leprosy. Malaviya GN. **Indian J Lepr** 1997 Jan-Mar;69(1):71–6

Surgical correction of claw fingers in leprosy using flexor superficialis direct lasso procedure. Patond KR, et al. **Indian J Lepr** 1997 Jan-Mar;69(1):25–32

Application of "measured tension" technique in correction of claw fingers by tendon transfer in leprosy. Sane SB, et al. **Indian J Lepr** 1997 Jan-Mar;69(1):63–70

Macrodactylia fibrolipomatosis complicated by multiple small bowel lipomas and intussusception. Gates LK Jr, et al. **J Clin Gastroenterol** 1996 Oct;23(3):241–2

Acrocallosal syndrome: a case report. Bonatz E, et al. **J Hand Surg [Am]** 1997 May;22(3):492–4

Use of forearm flaps for the severely contracted first web space in children with congenital malformations. Upton J, et al. **J Hand Surg [Am]** 1996 May;21(3):470–7

Two-stage reconstruction of apert acrosyndactyly. Van Heest AE, et al. **J Hand Surg [Am]** 1997 Mar;22(2):315–22

Finger duplication in Apert's syndrome. Anderson PJ, et al. **J Hand Surg [Br]** 1996 Oct;21(5):649–51

Toe to hand transfer in children. Part 1: technical aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):723–34

Toe to hand transfer in children. Part 2: Functional and psychological aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):735–45

Absence of nails with absent distal phalanges [letter; comment] al-Qattan MM. **J Hand Surg [Br]** 1996 Dec; 21(6):833. Comment on: J Hand Surg [Br] 1996 Jun;21(3):403–4.

Isolated autosomal dominant type E brachydactyly: exclusion of linkage to candidate regions 2q37 and 20q13. Oude Luttikhuis ME, et al. **J Med Genet** 1996 Oct;33(10):873–6

Keloid formation in syndactyly release: report of two cases. Smet LD, et al. **J Pediatr Orthop B** 1997 Jan;6(1):68–9

Nerve territory-oriented macrodactyly: unusual cause of carpal tunnel syndrome. Chen P, et al. **J Ultrasound Med** 1996 Sep;15(9):661–4

Military service and pseudopseudohypoparathyroidism: recognizing red flags for rare medical conditions. Riggs JE. **Mil Med** 1997 Jul;162(7):510–2

Volcano cast to monitor revascularized digits [letter] Rockwell WB, et al. **Plast Reconstr Surg** 1997 Sep; 100(4):1072–3

Repair of incomplete simple syndactyly by a web flap on a subcutaneous tissue pedicle. Yao JM, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2079–81

Ectrodactyly, ectodermal dysplasia, and cleft lip syndrome. Case report. Seno H, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):227–30 (22 ref.)

Palatal dimensions and some inherited factors (body height and metacarpal index). Westling L, et al. **Swed Dent J** 1996; 20(4):141–9

Tricho-rhino-phalangeal syndrome type I. Eroğlu Y, et al. **Turk J Pediatr** 1996 Oct-Dec;38(4):537–42

Macrodactyly: report of eight cases of a rare anomaly. Kostakoglu N, et al. **Turk J Pediatr** 1996 Jan-Mar; 38(1):73–9

Prenatal diagnosis of ectrodactyly: the 'lobster claw' anomaly. Leung KY, et al. **Ultrasound Obstet Gynecol** 1995 Dec;6(6):443–6 (16 ref.)

[Kirner's disease: surgical treatment] Mantero R. **Ann Chir Main** 1982;1(1):88–91 (13 ref.) (Eng. Abstr.) **(Fre)**

[A new method for treating the Kirner deformity with the SM-Fix phalangeal distractor] Moser N, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):34–8 (Eng. Abstr.) **(Ger)**

[A case of lingual agenesis] Carinci F, et al. **Minerva Stomatol** 1996 Jul-Aug;45(7–8):359–62 (Eng. Abstr.) **(Ita)**

[Mohr-Claussen syndrome] Nakano M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):281–3 (10 ref.) **(Jpn)**

[The concept of the surgical treatment of ectrodactyly in children] Tiazhelkov AP. **Vestn Khir Im I I Grek** 1996; 155(3):51–3 (Eng. Abstr.) **(Rus)**

[Brachydactyly of the hand] Tiazhelkov AP. **Vestn Khir Im I I Grek** 1995;154(4–6):60–4 (Eng. Abstr.) **(Rus)**

[The surgical treatment of contractures and syndactyly in a child with epidermolysis bullosa without using autotransplantation] Vozdvizhenskiĭ SI, et al. **Vestn Khir Im I I Grek** 1996;155(3):49–50 (Eng. Abstr.) **(Rus)**

[Brachydactyly: diagnostic sign of Turner's syndrome (letter)] Rodríguez Cuartero A. **An Med Interna** 1997 Mar; 14(3):156 **(Spa)**

[Polydactyly: a genetic epidemiological study in Santiago, Chile] Cifuentes L, et al. **Rev Med Chil** 1996 Mar; 124(3):313–8 (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Histomorphology of the peritendinous tissue of the phalangeal extensor apparatus. Bade H, et al. **Acta Anat (Basel)** 1996;156(2):112–7

Hair distribution on the phalanges of the hand among Kanuris and Baburs/Buras of north-eastern Nigeria. Mbajiorgu FE, et al. **Acta Anat (Basel)** 1996;157(4):324–9

Dermatoglyphic variation in Europe. Sokal RR, et al. **Am J Phys Anthropol** 1996 May;100(1):35–47

Distribution of hair on the dorsum of the phalanges of the hand in a Chinese population from Malaysia. Dharap AS, et al. **Anthropol Anz** 1996 Dec;54(4):311–6

Variations of the flexor digitorum superficialis tendon of the little finger. Gonzalez MH, et al. **J Hand Surg [Br]** 1997 Apr;22(2):277–80

Anatomy of the extensor tendons to the index finger. Gonzalez MH, et al. **J Hand Surg [Br]** 1996 Nov; 21(6):988–91

Bundle pattern of the flexor digitorum profundus tendon in zone II of the hand: a quantitative assessment of the size of a laceration. Grewal R, et al. **J Hand Surg [Br]** 1996 Nov;21(6):978–83

Susceptibility, field inhomogeneity, and chemical shift-corrected NMR microscopy: application to the human finger in vivo. Weis J, et al. **Magn Reson Imaging** 1996;14(10):1165–75

A bibliography covering the use of metacarpophalangeal pattern profile analysis in bone dysplasias, congenital malformation syndromes, and other disorders. Poznanski AK, et al. **Pediatr Radiol** 1997 May;27(5):358–65

BLOOD SUPPLY

Treatment of ischaemic digital ulcers and prevention of gangrene with intravenous iloprost in systemic sclerosis. Zachariae H, et al. **Acta Derm Venereol** 1996 May; 76(3):236–8

Increased finger arterial blood pressure after exercise detraining in women with parental hypertension: autonomic tasks. Buckworth J, et al. **Acta Physiol Scand** 1997 May; 160(1):29–41

Cocaine effects on digital blood flow and diffusing capacity for carbon monoxide among chronic cocaine users. Sullivan JT, et al. **Am J Med** 1997 Mar;102(3):232–8

Local constriction of arteriovenous anastomoses in the cooled finger. Bergersen TK, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R880–6

Control of arteriovenous anastomoses in rabbit ear model of digital perfusion. Pollock DC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2007–13

Decreased digital flow persists after the abatement of cocaine-induced hemodynamic stimulation. Silverman DG, et al. **Anesth Analg** 1997 Jan;84(1):46–50

Cold-induced acral vasospasm in migraine as assessed by nailfold video-microscopy: prevalence and response to migraine prophylaxis. Hegyalijai T, et al. **Angiology** 1997 Apr;48(4):345–9

Hypothenar hammer syndrome successfully managed with intravenous prostaglandin E1 and heparin and with correction of the thrombogenic risk profile. A case report. Wieczorek I, et al. **Angiology** 1996 Nov;47(11):1111–6

Cutaneous pulse oximetry in the preoperative assessment of devascularized digits [letter] Isenberg JS, et al. **Ann Plast Surg** 1996 Jun;36(6):659–61

Insulin as a pressor agent: effects of 'physiological' insulin concentrations on finger blood pressure. O'Callaghan CJ, et al. **Blood Press Suppl** 1996;1:18–22

Spontaneous digital arteriovenous malformation in a 28-year-old pregnant female [letter] Mcculley S, et al. **Br J Dermatol** 1997 Mar;136(3):472–3

Hypothenar hammer syndrome caused by recreational sports activities and muscle anomaly in the wrist. Kreitner KF, et al. **Cardiovasc Intervent Radiol** 1996 Sep-Oct;19(5):356–9

Models of brachial to finger pulse wave distortion and pressure decrement. Gizdulich P, et al. **Cardiovasc Res** 1997 Mar;33(3):698–705

Exposure-response relationship for vibration-induced white finger among forestry workers. Bovenzi M, et al. **Cent Eur J Public Health** 1996 Feb;4(1):69–72

Vascular responses to acute vibration in the fingers of normal subjects. Bovenzi M, et al. **Cent Eur J Public Health** 1995; 3 Suppl:15–8

Evaluation of the white finger risk prediction model in ISO 5349 suggests need for prospective studies. Gemne G, et al. **Cent Eur J Public Health** 1996 May;4(2):137–9 (23 ref.)

Re-evaluation of capillaroscopy of finger nailfold in vibration-exposed workers. Kaji H, et al. **Cent Eur J Public Health** 1995;3 Suppl:34–6

Finger systolic blood pressures: effects of cold provocation on the reference finger. Lindsell CJ, et al. **Cent Eur J Public Health** 1995;3 Suppl:45–8

Reconstruction of brachial artery pressure from noninvasive finger pressure measurements. Bos WJ, et al. **Circulation** 1996 Oct 15;94(8):1870–5

Ovarian carcinoma and digital ischaemia. Maurice PD. **Clin Exp Dermatol** 1996 Sep;21(5):381–2

Continuous non-invasive measurement of mean blood pressure in fingers by volume-clamp and differential oscillometric method. Jagomägi K, et al. **Clin Physiol** 1996 Sep;16(5):551–60

Accuracy and reliability of noninvasive continuous finger blood pressure measurement in critically ill patients. Hirschl MM, et al. **Crit Care Med** 1996 Oct;24(10):1684–9

A comparison of non-invasive continuous finger blood pressure measurement (Finapres) with intra-arterial pressure during prolonged head-up tilt. Petersen ME, et al. **Eur Heart J** 1995 Nov;16(11):1641–54

Accuracy of automated finger blood pressure devices. Nesselroad JM, et al. **Fam Med** 1996 Mar;28(3):189–92

Case in point. Digital infarction secondary to radial artery cannulation. Olivero JJ. **Hosp Pract (Off Ed)** 1997 Jan 15; 32(1):30

A comparison of vibrotactile thresholds on the finger obtained with ISO type equipment and Japanese equipment. Maeda S, et al. **Ind Health** 1997 Jul;35(3):343–52

Effect of local limb temperature on pulse oximetry and the plethysmographic pulse wave. Schramm WM, et al. **Int J Clin Monit Comput** 1997 Feb;14(1):17–22

A new technique for controlling the finger skin temperature in microcirculatory research demonstrated in a local cold stress test in healthy controls and patients with Raynaud's phenomenon. Hahn M, et al. **Int J Microcirc Clin Exp** 1996 Jan-Feb;16(1):16–22

Discrepancy in skin capillary circulation between fingers and toes in patients with type 1 diabetes. Jörneskog G, et al. **Int J Microcirc Clin Exp** 1996 Nov-Dec;16(6):313–9

Radiological case of the month. Hypothenar hammer syndrome. Avva R, et al. **J Ark Med Soc** 1996 Nov; 93(6):303–4

Numerical analysis of an extremity in a cold environment including countercurrent arterio-venous heat exchange. SHitzer A, et al. **J Biomech Eng** 1997 May;119(2):179–86

Digital ischemia associated with a thrombosed aneurysm of the dorsal interosseous artery. A case report. O'Farrell DA, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):441–3

Aneurysms of the digital arteries: a case report and literature review. Abouzahr MK, et al. **J Hand Surg [Am]** 1997 Mar; 22(2):311–4 (19 ref.)

Microembolectomy in the treatment of arterial occlusion of the hand: report of two cases. Hudson DA, et al. **J Hand Surg [Am]** 1996 Sep;21(5):884–7

Quantitative evaluation of sympathetic nervous system dysfunction in patients with reflex sympathetic dystrophy. Ide J, et al. **J Hand Surg [Br]** 1997 Feb;22(1):102–6

Is vibration-induced white finger a reversible syndrome if vibration is stopped? Ostman F, et al. **J Hand Surg [Br]** 1996 Dec;21(6):750–2

Limited microsurgical arteriolysis for complications of digital vasospasm. Tham S, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):359–61

Brachial and digital artery pulse pressures in hypertensive and normotensive subjects. Bochmann RP, et al. **J Hum Hypertens** 1996 Aug;10(8):539–46

Digital pulse volume recording: an essential test for the assessment of arteritis in diabetic patients. Kreidy R, et al. **J Med Liban** 1997;45(2):73–7

Local inhibition of nitric oxide generation in man reduces blood flow in finger pulp but not in hand dorsum skin. Noon JP, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):501–8

Replantation and revascularization of the digits in a community microsurgical practice. Pomerance J, et al. **J Reconstr Microsurg** 1997 Apr;13(3):163–70

Digital vascular responses to cooling in subjects with cold sensitivity, primary Raynaud's phenomenon, or scleroderma spectrum disorders [see comments] Maricq HR, et al. **J Rheumatol** 1996 Dec;23(12):2068–78. Comment in: J Rheumatol 1997 Jul;24(7):1454.

Optical assessment of recovery of tissue blood supply after removal of externally applied pressure. Murray A, et al. **Med Biol Eng Comput** 1997 Jul;35(4):425–7

Visualization of small vessels in the fingertip of man using color-coded Doppler sonography: a new noninvasive tool reducing the diagnostic gap between macro- and microcirculation. Mück-Weymann M, et al. **Microvasc Res** 1997 Mar;53(2):194–6

Reliability of finger stick capillary blood for the lymphocyte micronucleus assay. Lee TK, et al. **Mutagenesis** 1997 Mar; 12(2):79–81

Acute effects of vibration on peripheral blood flow in healthy subjects. Egan CE, et al. **Occup Environ Med** 1996 Oct; 53(10):663–9

Fingertip temperature during cardiopulmonary bypass. Johnson J, et al. **Perfusion** 1997 Mar;12(2):120–6

Estimation of arterial blood pressure variability by spectral analysis: comparison between Finapres and invasive

measurements. Pinna GD, et al. **Physiol Meas** 1996 Aug; 17(3):147–69

Recurrent digital ischemia due to thrombosis of the persistent median artery. Beran SJ, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1169–71

The venocutaneous fistula: a new technique for reducing venous congestion in replanted fingertips. Kamei K, et al. **Plast Reconstr Surg** 1997 May;99(6):1771–4

Microvascular abnormalities in patients with vibration white finger. Littleford RC, et al. **QJM** 1997 Aug;90(8):525–9

Cervical epidural analgesia for management of pain associated with digital vasculitis secondary to rheumatoid arthritis. Green CR, et al. **Reg Anesth** 1997 Mar–Apr; 22(2):188–91

Is skull sawing by autopsy assistants overlooked as a cause of vibration-induced white fingers? Torén K, et al. **Scand J Work Environ Health** 1996 Jun;22(3):227–9

Intraarticular envenomation by Trimeresurus flavomaculatus mcgregori resulting in joint destruction. Clark RF, et al. **Toxicon** 1997 Jun;35(6):837–42

Immunoelectron microscopical characterization of the epithelioid type of smooth muscle cells in human glomus organs. Kasper M, et al. **Ultrastruct Pathol** 1997 Sep–Oct; 21(5):425–30

Colour coded duplex sonography in ischemic finger artery disease—a comparison with hand arteriography. Langholz J, et al. **Vasa** 1997 May;26(2):85–90

[Red fingers syndrome in the course of HIV infection. A new case] Lair G, et al. **J Mal Vasc** 1997;22(1):48–50 (Eng. Abstr.) **(Fre)**

[Raynaud phenomenon with organic microangiopathy and prolonged treatment with bromocriptine (letter)] Zenone T, et al. **Rev Med Interne** 1996;17(11):948–50 **(Fre)**

[Occlusion of finger arteries and thrombotic angiopathy of the retina during adjuvant tamoxifen therapy of a mammary carcinoma] Schlich B, et al. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):783–6 (Eng. Abstr.) **(Ger)**

[Arteriovenous dysplasia of the hand. A case report and attempts at conservative therapy] Bahm J, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):39–42 (Eng. Abstr.) **(Ger)**

[Critical peripheral ischemia in infection] Joseph U, et al. **Internist (Berl)** 1996 Oct;37(10):1049–52 **(Ger)**

[What is the role of the sympathetic nervous system in digital vasospasms?] Gasser P. **Schweiz Rundsch Med Prax** 1996 Oct 15;85(42):1320–3 (31 ref.) (Eng. Abstr.) **(Ger)**

[Fibrinolytic treatment of postoperative ischemia of the hand caused by thrombotic obstruction of the interdigital artery: a case] Salvatori FM, et al. **Radiol Med (Torino)** 1996 Sep; 92(3):328–31 **(Ita)**

[Vasculitis with digital ischemic necrosis preceding diagnosis of malignancy] Gajewski P, et al. **Pol Arch Med Wewn** 1995 Oct;94(4):364–6 **(Pol)**

EMBRYOLOGY

Distribution patterns of neoglycoprotein-binding sites (endogenous lectins) and lectin-reactive glycoconjugates during cartilage and bone formation in human finger. Zschäbitz A, et al. **Acta Anat (Basel)** 1995;154(4):272–82

Antenatal depiction of fetal digits with three-dimensional ultrasonography. Ploeckinger-Ulm B, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):571–4

[The morphogenetic link of the integrative complex at the base of the formation of the tactile pattern of the distal phalanx of the human fingers. A statistical analysis] Guseva IS. **Arkh Anat Gistol Embriol** 1968 Nov;55(11):27–35 (Eng. Abstr.) **(Rus)**

INJURIES see FINGER INJURIES

INNERVATION

Digital sensory nerve conduction velocity and vibration perception threshold in peripheral neurological test for hand-arm vibration syndrome. Sakakibara H, et al. **Am J Ind Med** 1996 Aug;30(2):219–24

Evaluation of residual neuromuscular block using train-of-four and double burst stimulation at the index finger. Saitoh Y, et al. **Anesth Analg** 1997 Jun;84(6):1354–8

Finger drop in a patient with rheumatoid arthritis [letter; comment] Ehrlich GE. **Ann Rheum Dis** 1997 Apr;56(4):280 . Comment on: Ann Rheum Dis 1996 Oct;55(10):728–30.

Effect of long-term implanted nerve cuff electrodes on the electrophysiological properties of human sensory nerves. Slot PJ, et al. **Artif Organs** 1997 Mar;21(3):207–9 (7 ref.)

Regeneration of sudomotor and sensory nerve fibres after digital replantation and microneurovascular toe-to-hand transfer. Ahčan U, et al. **Br J Plast Surg** 1997 Jun; 50(4):227–35

Response to psychological stressors in hand-arm vibration syndrome patients. Harada N, et al. **Cent Eur J Public Health** 1995;3 Suppl:54–6

Digital nerve conduction velocity for evaluation of peripheral nerve impairments in vibration syndrome. Sakakibara H, et al. **Cent Eur J Public Health** 1995;3 Suppl:52–3

Callosal transfer of finger localization information in phonologically dyslexic adults. Moore LH, et al. **Cortex** 1996 Jun;32(2):311–22

Distal, "Tinel-like" percussion paresthesiae, with proximal nerve lesions. Jabre JF. **Electromyogr Clin Neurophysiol** 1996 Apr–May;36(3):175–8 (16 ref.)

Nondigital afferent input in reactive control of fingertip forces during precision grip. Häger-Ross C, et al. **Exp Brain Res** 1996 Jun;110(1):131–41

Control of grip force during restraint of an object held between finger and thumb: responses of muscle and joint afferents from the digits. Macefield VG, et al. **Exp Brain Res** 1996 Feb;108(1):172–84

Somatosensory evoked potentials following proprioceptive stimulation of finger in man. Mima T, et al. **Exp Brain Res** 1996 Sep;111(2):233–45

Parkinsonism reduces coordination of fingers, wrist, and arm in fine motor control. Teulings HL, et al. **Exp Neurol** 1997 Jul;146(1):159–70

Patterns of median nerve sensory innervation to the thumb and index finger: an anatomic study. Jolley BJ, et al. **J Hand Surg [Am]** 1997 Mar;22(2):228–31 (30 ref.)

Innervated radial thenar flap for sensory reconstruction of fingers. Omokawa S, et al. **J Hand Surg [Am]** 1996 May; 21(3):373–80

Outcome of digital nerve injuries in adults. Wang WZ, et al. **J Hand Surg [Am]** 1996 Jan;21(1):138–43

Neurofibromas of digital nerves. Basheer H, et al. **J Hand Surg [Br]** 1997 Feb;22(1):61–3

Neural encoding of shape: responses of cutaneous mechanoreceptors to a wavy surface stroked across the monkey fingerpad. LaMotte RH, et al. **J Neurophysiol** 1996 Dec;76(6):3787–97

Digital blocks [letter] Tountas CP. **Minn Med** 1996 Sep; 79(9):6

Cerebral activation during the exertion of sustained static force in man. Dettmers C, et al. **Neuroreport** 1996 Sep 2; 7(13):2103–10

Phantom limb imaginary fingertapping causes primary motor cortex activation: an fMRI study. Ersland L, et al. **Neuroreport** 1996 Dec 20;8(1):207–10

False localizing signs in upper cervical spinal cord compression [see comments] Sonstein WJ, et al. **Neurosurgery** 1996 Mar;38(3):445–8; discussion 448–9. Comment in: Neurosurgery 1997 Jan;40(1):217–8.

Selective modification of somatosensory evoked potential during voluntary finger movement in humans. Nishihira Y, et al. **Percept Mot Skills** 1997 Aug;85(1):259–66

Peripheral cutaneous nerve distribution to the fingers. Stappaerts KH, et al. **Physiother Res Int** 1996;1(1):41–9

Responses in primary somatosensory cortex of rhesus monkey to controlled application of embossed grating and bar patterns. Sinclair RJ, et al. **Somatosens Mot Res** 1996; 13(3–4):287–306

[Post-traumatic anterior interosseous nerve syndrome after supracondylar humerus fracture in a child] Joist A, et al. **Chirurg** 1997 Jul;68(7):738–41 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

A case of primary cutaneous cryptococcosis. Vogelaers D, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):150–2

Flexor tenosynovitis in the hand caused by Mycobacterium malmoense: a case report. Gabl M, et al. **J Hand Surg [Am]** 1997 Mar;22(2):338–40

Staphylococcal blistering dactylitis: report of two patients. Woroszylski A, et al. **Pediatr Dermatol** 1996 Jul–Aug; 13(4):292–3

PATHOLOGY

Digital necrosis associated with chronic myeloid leukemia: a rare paraneoplastic phenomenon ... and not a toxicity of recombinant interferon [letter; comment] D'Hondt L, et al. **Acta Clin Belg** 1997;52(1):49. Comment on: Acta Clin Belg 1996;51(1):61–2.

Congenital ectopic nails of the fingers is associated with bone deformities [letter] Kuniyuki S. **Acta Derm Venereol** 1996 Jul;76(4):322–3

An unusual trigger finger. Pampliega T, et al. **Acta Orthop Belg** 1997 Jun;63(2):132–3

Unilateral insensate macrodactyly secondary to tuberous sclerosis in a child. Shin AY, et al. **Am J Orthop** 1997 Jan;26(1):30–2

Digital necrosis with Ogilvie's syndrome. Wright GD, et al. **Ann Rheum Dis** 1997 Apr;56(4):224–5

Pseudoainhum associated with linear scleroderma [letter] Park BS, et al. **Arch Dermatol** 1996 Dec;132(12):1520–1

Raynaud's phenomenon and digital necrosis induced by interferon-alpha. Bachmeyer C, et al. **Br J Dermatol** 1996 Sep;135(3):481–3

Granuloma annulare in a patient with malignant lymphoma. Ono H, et al. **Dermatology** 1997;195(1):46–7

Standard and high resolution magnetic resonance imaging of glomus tumors of toes and fingertips. Drapé JL, et al. **J Am Acad Dermatol** 1996 Oct;35(4):550–5

Fibro-osseous pseudotumor of the digit: a comparison to myositis ossificans by light microscopy and immunohistochemical methods. Sleater J, et al. **J Cutan Pathol** 1996 Aug;23(4):373–7

A case of congenital ectopic nails on bilateral little fingers. Iida N, et al. **J Dermatol** 1997 Jan;24(1):38–42 (10 ref.)

Isolated digital swelling as the initial presentation of juvenile rheumatoid arthritis. Naidu SH, et al. **J Hand Surg [Am]** 1997 Jul;22(4):653–7

Plexiform schwannoma (neurilemmoma) associated with macrodactyly: a case report. Posner MA, et al. **J Hand Surg [Am]** 1996 Jul;21(4):707–10

Rupture of all finger flexor tendons 17 years after a colles fracture: a case report. Van Loon J, et al. **J Hand Surg [Am]** 1997 Mar;22(2):263–5

Images in clinical medicine. Orf skin ulcer. Roingeard P, et al. **N Engl J Med** 1997 Oct 16;337(16):1131

Pachydermodactyly in two young girls. Bardazzi F, et al. **Pediatr Dermatol** 1996 Jul–Aug;13(4):288–91

Bone invasion by a recurrent digital fibroma of infancy in a child with Beckwith-Wiedemann syndrome. Craver RD, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):147–51

Imaging interpretation session: 1996. Fibrolipomatous hamartoma of the median nerve and macrodystrophia lipomatosa (MDL). **Radiographics** 1997 Jan–Feb; 17(1):258–61

Dermal leiomyosarcoma of the right fifth finger. Case report. Munk B, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun;31(2):179–80

Still another case of Wegener's granulomatosis with a digital gangrene [letter; comment] Karjalainen A, et al. **Scand J Rheumatol** 1996;25(5):339 (3 ref.). Comment on: Scand J Rheumatol 1996;25(2):103–4.

[Glomus tumors. Clinical, histological and immunohistochemical study. Apropos of 29 cases] Arkwright S, et al. **Arch Anat Cytol Pathol** 1996; 44(4):160–5 (Eng. Abstr.) **(Fre)**

[Raynaud syndrome complicated by digital gangrene during treatment with interferon-alpha] Liozon E, et al. **Rev Med Interne** 1997;18(4):316–9 (Eng. Abstr.) **(Fre)**

[Lytic lesion of the distal phalanx of a patient with systemic circumscribed sclerosis] Gómez-Rodríguez N, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):449–50 **(Spa)**

PHYSIOLOGY

Effects of preceding movements and contractions on the tonic vibration reflex of human finger extensor muscles. Nordin M, et al. **Acta Physiol Scand** 1996 Apr; 156(4):435–40

In-hand manipulation in young children: rotation of an object in the fingers. Pehoski C, et al. **Am J Occup Ther** 1997 Jul–Aug;51(7):544–52

Effects of finger and wrist taping on grip strength. Rettig AC, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):96–8

Involvement of the ipsilateral motor cortex in finger movements of different complexities. Chen R, et al. **Ann Neurol** 1997 Feb;41(2):247–54

Tactile agnosia. Casuistic evidence and theoretical remarks on modality-specific meaning representations and sensorimotor integration. Platz T. **Brain** 1996 Oct;119 (Pt 5):1565–74

Changes in regional cerebral blood flow during self-paced arm and finger movements. A PET study. Kawashima R, et al. **Brain Res** 1996 Apr 15;716(1–2):141–8

Changes in movement-related brain activity during transient deafferentation: a neuromagnetic study. Kristeva-Feige R, et al. **Brain Res** 1996 Apr 1;714(1–2):201–8

Event-related desynchronisation of central beta-rhythms during brisk and slow self-paced finger movements of dominant and nondominant hand. Stancák A Jr, et al. **Brain Res Cogn Brain Res** 1996 Oct;4(3):171–83

The vibrotactile threshold (VT) at the fingertips of chain saw operators. Ahrend KD, et al. **Cent Eur J Public Health** 1995;3 Suppl:85–7

Screening of vibration-induced disorders in the building industry using digital tactilometry. Results of a field study. Beaumont D, et al. **Cent Eur J Public Health** 1995;3 Suppl:103–6

Clinical studies of the vibration syndrome using a cold stress test measuring finger temperature. Gautherie M. **Cent Eur J Public Health** 1995;3 Suppl:5–10

Effect of contact conditions on the mechanical impedance of the finger. Mann NA, et al. **Cent Eur J Public Health** 1996 Feb;4(1):46–9

Post-exercise cutaneous hyperaemia resulting from local exercise of an extremity. Rendell MS, et al. **Clin Physiol** 1997 May;17(3):213–24

Laterality of finger movements in preterm infants. Konishi Y, et al. **Dev Med Child Neurol** 1997 Apr;39(4):248–52

Steady-state movement-related cortical potentials: a new approach to assessing cortical activity associated with fast repetitive finger movements. Gerloff C, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb; 102(2):106–13

Lateralised cortical activity due to preparation of saccades and finger movements: a comparative study. Wauschkuhn B, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb; 102(2):114–24

Hand and finger skin temperatures in convective and contact cold exposure. Chen F, et al. **Eur J Appl Physiol** 1996; 72(4):372–9

Thumb-pointing is humans after damage to somatic sensory cortex. Aglioti S, et al. **Exp Brain Res** 1996 Apr; 109(1):92–100

Anticipatory and sequential motor control in piano playing. Engel KC, et al. **Exp Brain Res** 1997 Feb;113(2):189–99

Influence of afferent feedback on isometric fine force resolution in humans. Henningsen H, et al. **Exp Brain Res** 1997 Feb;113(2):207–13

Identification of motor and sensory brain activities during unilateral finger movement: spatiotemporal source analysis of movement-associated magnetic fields. Hoshiyama M, et al. **Exp Brain Res** 1997 Jun;115(1):6–14

Coupling of fingertip somatosensory information to head and

body sway. Jeka JJ, et al. **Exp Brain Res** 1997 Mar; 113(3):475–83

Control of grip force during restraint of an object held between finger and thumb: responses of muscle and joint afferents from the digits. Macefield VG, et al. **Exp Brain Res** 1996 Feb;108(1):172–84

Control of grip force during restraint of an object held between finger and thumb: responses of cutaneous afferents from the digits. Macefield VG, et al. **Exp Brain Res** 1996 Feb;108(1):155–71

Synchronization of human finger movements: delays and sex differences with isotonic 'antiphase' motion. Walsh EG. **Exp Physiol** 1997 May;82(3):559–65

Keyboard reaction force and finger flexor electromyograms during computer keyboard work. Martin BJ, et al. **Hum Factors** 1996 Dec;38(4):654–64

An experimental study on changes in finger blood pressure during chain-saw operation. Futatsuka M, et al. **Ind Health** 1996;34(2):93–100

Influence of local vibration on finger functions of forest workers. Tanaka M, et al. **Ind Health** 1997 Jul;35(3):337–42

Effect of manipulating visual feedback parameters on eye and finger movements. Beuter A, et al. **Int J Neurosci** 1995 Dec;83(3–4):281–94

Lumped-parameter tissue temperature-blood perfusion model of a cold-stressed fingertip. Shitzer A, et al. **J Appl Physiol** 1996 May;80(5):1829–34

Power spectrum analysis of spontaneous fluctuations in the photoplethysmographic signal. Nitzan M, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul–Dec;5(3–4):269–76

Identification of the mechanical impedance at the human finger tip. Hajian AZ, et al. **J Biomech Eng** 1997 Feb; 119(1):109–14

An investigation of the mechanics of tactile sense using two-dimensional models of the primate fingertip. Srinivasan MA, et al. **J Biomech Eng** 1996 Feb;118(1):48–55

Boundary lubrication between the tendon and the pulley in the finger. Uchiyama S, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):213–8

Gliding resistance of extrasynovial and intrasynovial tendons through the A2 pulley. Uchiyama S, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):219–24

Relationship between finger movement rate and functional magnetic resonance signal change in human primary motor cortex. Rao SM, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1250–4

Handedness and performance variability as factors influencing mirror movement occurrence. Armatas CA, et al. **J Clin Exp Neuropsychol** 1996 Dec;18(6):823–35

Flexibility and repeatability of finger movements during typing: analysis of multiple degrees of freedom. Soechting JF, et al. **J Comput Neurosci** 1997 Jan;4(1):29–46

A biomechanical study of the flexor digitorum superficialis: effects of digital pulley excision and loss of the flexor digitorum profundus. Hamman J, et al. **J Hand Surg [Am]** 1997 Mar;22(2):328–35

Activity of the extrinsic finger flexors during mobilization in the Kleinert splint. van Alphen JC, et al. **J Hand Surg [Am]** 1996 Jan;21(1):77–84

The motion analysis system and the maximal area of fingertip motion. A preliminary report. Chiu HY, et al. **J Hand Surg [Br]** 1996 Oct;21(5):604–8

Independent index extension after indicis proprius transfer: excision of juncturae tendinum. Kitano K, et al. **J Hand Surg [Br]** 1996 Nov;21(6):992–6

Brachial and digital artery pulse pressures in hypertensive and normotensive subjects. Bochmann RP, et al. **J Hum Hypertens** 1996 Aug;10(8):539–46

Functional MRI in human somatosensory cortex activated by touching textured surfaces. Lin W, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):565–72

Self-paced versus metronome-paced finger movements. A positron emission tomography study. Wessel K, et al. **J Neuroimaging** 1997 Jul;7(3):145–51

Visual and somatosensory information about object shape control manipulative fingertip forces. Jenmalm P, et al. **J Neurosci** 1997 Jun 1;17(11):4486–99

Tension distribution of single motor units in multitendoned muscles: comparison of a homologous digit muscle in cats and monkeys. Schieber MH, et al. **J Neurosci** 1997 Mar 1;17(5):1734–47

Effects of static fingertip loading on carpal tunnel pressure. Rempel D, et al. **J Orthop Res** 1997 May;15(3):422–6

The effect of acetylcholine on finger capillary pressure and capillary flow in healthy volunteers. Morris SJ, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):307–13

Pulsatile motor output in human finger movements is not dependent on the stretch reflex. Wessberg J, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):895–908

Changes in central motor-sensory system following voluntary movement of stimulated finger. Nishihira Y, et al. **J Sports Med Phys Fitness** 1997 Mar;37(1):65–71

Finger flexion does not contribute to ball speed in overarm throws. Hore J, et al. **J Sports Sci** 1996 Aug;14(4):335–42

Development and evaluation of an inexpensive sensor system for use in measuring relative finger positions. Jurgens J, et al. **Med Eng Phys** 1997 Jan;19(1):1–6

Cortical representation of self-paced finger movement. Larsson J, et al. **Neuroreport** 1996 Jan 31;7(2):463–8

Internal consistency of dipole localizations for the human movement-evoked magnetic field component 1 (MEF 1). Rosburg T, et al. **Neurosci Lett** 1996 Aug 30;215(1):45–8

Temporal control of the reach and grip components during a prehension task in humans. Timmann D, et al. **Neurosci Lett** 1996 Mar 29;207(2):133–6

Vibration-induced finger flexion reflex and inhibitory effect of acupuncture on this reflex in cervical spinal cord injury patients. Takakura N, et al. **Neurosci Res** 1996 Dec; 26(4):391–4

Haemodynamic changes in ipsilateral and contralateral fingers caused by acute exposures to hand transmitted vibration. Bovenzi M, et al. **Occup Environ Med** 1997 Aug; 54(8):566–76

Inhibition of the blink reflex R2 component after supraorbital and index finger stimulations is reduced in cluster headache: an indication for both segmental and suprasegmental dysfunction? Lozza A, et al. **Pain** 1997 May;71(1):81–8

Children's lateralization on a finger-localization task. Geraldson B, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1259–64

Selective modification of somatosensory evoked potential during voluntary finger movement in humans. Nishihira Y, et al. **Percept Mot Skills** 1997 Aug;85(1):259–66

An experimental study on an evaluation method for occupational therapy—the effectiveness of a newly developed computerized measurement system of finger function. Kikuchi E, et al. **Tokai J Exp Clin Med** 1996 Oct;21(3):129–38

[Modulation of evoked potentials following electrical tooth and finger stimulation at selective attention task] Izumi K. **Kokubyo Gakkai Zasshi** 1997 Jun;64(2):296–315 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Flexion contracture of fingers due to sarcoidosis--a case report. Ikeda K, et al. **Acta Orthop Scand** 1996 Dec; 67(6):623–5

Regional cerebral blood flow response in gray matter heterotopia during finger tapping: an activation study with positron emission tomography. Hatazawa J, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):479–82

Effects of key stiffness on force and the development of fatigue while typing. Gerard MJ, et al. **Am Ind Hyg Assoc J** 1996 Sep;57(9):849–54

The use of intra-arterial urokinase in the management of hand ischemia secondary to palmar and digital arterial occlusion. Wheatley MJ, et al. **Ann Plast Surg** 1996 Oct;37(4):356–62; discussion 362–3

An uncommon cause of finger drop in a patient with rheumatoid arthritis [see comments] McDonald SP, et al. **Ann Rheum Dis** 1996 Oct;55(10):728–30. Comment in: Ann Rheum Dis 1997 Apr;56(4):280.

[Pinch deficit of the thumb–index finger due to a lesion of the anterior interosseous nerve. Apropos of 17 cases] Seror P. **Ann Chir Main Memb Super** 1997;16(2):118–22; discussion 123 (Eng. Abstr.) **(Fre)**

[Motor function outcome and changes in motor impairment level of the upper limbs and fingers in patients with acute carotid-system cerebral infarction] Itoh H, et al. **No To Shinkei** 1997 Jun;49(6):529–36 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Phalangeal bone density and hip fracture risk. Mussolino ME, et al. **Arch Intern Med** 1997 Feb 24;157(4):433–8

Bizarre parosteal osteochondromatous proliferation: a review of seven cases [published erratum appears in Aust N Z J Surg 1996 Nov;66(11):784] Smith NC, et al. **Aust N Z J Surg** 1996 Oct;66(10):694–7

Melorheostosis. Gupta RK, et al. **J Indian Med Assoc** 1995 May;93(5):209

Hand vs. finger radiographs. Folio LR. **Radiol Technol** 1996 Jan–Feb;67(3):249–50

Assessment of osteoporosis: comparison of radiographic absorptiometry of the phalanges and dual X-ray absorptiometry of the radius and lumbar spine. Takada M, et al. **Radiology** 1997 Mar;202(3):759–63

[What is your diagnosis? Glomus tumor] Braunschweig M. **Schweiz Rundsch Med Prax** 1997 Apr 9;86(15):603–4 **(Ger)**

SURGERY

Thenar flap rehabilitated: a review of 20 cases. Barbato BD, et al. **Ann Plast Surg** 1996 Aug;37(2):135–9

Cutaneous pulse oximetry in the preoperative assessment of devascularized digits [letter] Isenberg JS, et al. **Ann Plast Surg** 1996 Jun;36(6):659–61

A case of double fingernail and ectopic fingernail. Muraoka M, et al. **Ann Plast Surg** 1996 Feb;36(2):201–5 (17 ref.)

A four-pulp flap technique for creating nail folds in the separation of a mid-digital mass in a patient with Apert's disease. Noguchi M, et al. **Ann Plast Surg** 1996 Oct; 37(4):444–8

Replantation of ring avulsion of index, long, and ring fingers. Tseng OF, et al. **Ann Plast Surg** 1996 Jun;36(6):625–8

Finger replantation in a 12-month-old child: a long-term follow-up. Nagase T, et al. **Br J Plast Surg** 1996 Dec; 49(8):555–8

Anatomical basis for a fasciocutaneous flap from the hypothenar eminence of the hand. Omokawa S, et al. **Br J Plast Surg** 1996 Dec;49(8):559–63

Digital reconstruction with island flaps. Foucher G, et al. **Clin Plast Surg** 1997 Jan;24(1):1–32 (80 ref.)

Microvascular reconstruction of the distal digits by partial toe transfer. el-Gammal TA, et al. **Clin Plast Surg** 1997 Jan;24(1):49–55 (36 ref.)

Advances in digital replantation. Merle M, et al. **Clin Plast Surg** 1997 Jan;24(1):87–105 (27 ref.)

Flexor aponeurotic release for resistant adaptive shortening of long flexors in claw hands in leprosy. Rath S. **Indian J Lepr** 1997 Jan–Mar;69(1):101–7

Opponensplasty--a rare complication and its prevention. Jimulia TR, et al. **J Assoc Physicians India** 1996 Aug; 44(8):569–70

Enchondroma of the distal phalanx of the hand. Shimizu K, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):898–900

Florid reactive periostitis of the digit with cortical erosion: a case report and review of the literature. Howard RF, et al. **J Hand Surg [Am]** 1996 May;21(3):501–5

Surgical treatment and postoperative splinting of recessive dystrophic epidermolysis bullosa. Ladd AL, et al. **J Hand Surg [Am]** 1996 Sep;21(5):888–97

Pulp neurovascular island flap for finger amputation. Lanzetta M, et al. **J Hand Surg [Am]** 1996 Sep;21(5):918–21

Staged flexor tendon reconstruction using pedicled tendon graft from the flexor digitorum superficialis. Naam NH. **J Hand Surg [Am]** 1997 Mar;22(2):323–7

Percutaneous release of trigger digit with and without cortisone injection. Patel MR, et al. **J Hand Surg [Am]** 1997 Jan;22(1):150–5

Subungual melanoma of the hand. Quinn MJ, et al. **J Hand Surg [Am]** 1996 May;21(3):506–11

A critical look at intercarpal arthrodesis: review of the literature. Siegel JM, et al. **J Hand Surg [Am]** 1996 Jul; 21(4):717–23 (36 ref.)

The results of surgical treatment of trigger finger. Turowski GA, et al. **J Hand Surg [Am]** 1997 Jan;22(1):145–9

Replantation and revascularization at the transmetacarpal level: long-term functional results. Weinzweig N, et al. **J Hand Surg [Am]** 1996 Sep;21(5):877–83

Modified transthecal digital block. Whetzel TP, et al. **J Hand Surg [Am]** 1997 Mar;22(2):361–3

The "S" Quattro in severe Dupuytren's contracture. Beard AJ, et al. **J Hand Surg [Br]** 1996 Dec;21(6):795–6

Rotation-angulation osteotomy in the hand [letter; comment] Botelheiro JC. **J Hand Surg [Br]** 1996 Aug;21(4):567. Comment on: J Hand Surg [Br] 1996 Feb;21(1):43–6.

Complications following mucous cyst excision. Fritz GR, et al. **J Hand Surg [Br]** 1997 Apr;22(2):222–5

Replantation-revascularization and primary amputation in major hand injuries. Resources spent on treatment and the indirect costs of sick leave in Sweden. Holmberg J, et al. **J Hand Surg [Br]** 1996 Oct;21(5):576–80

Clinical outcome of digital replantation using the fibrin glue-assisted microvascular anastomosis technique. Isogai N, et al. **J Hand Surg [Br]** 1996 Oct;21(5):573–5

Extending the use of the palmar advancement flap with V-Y closure. Kinoshita Y, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):212–8

Total middle ray amputation. Lyall H, et al. **J Hand Surg [Br]** 1996 Oct;21(5):675–80

Eccrine spiradenoma of the hand clinically mimicking a lipoma. Al-Qattan MM. **J Hand Surg [Br]** 1996 Aug; 21(4):551–2

A new technique of attachment of flexor tendons to the distal phalanx without a button tie-over. Sood MK, et al. **J Hand Surg [Br]** 1996 Oct;21(5):629–32

Two-stage toe-to-thumb reconstruction in pollicized second metacarpal and useless fingers. Sastre N, et al. **J Reconstr Microsurg** 1996 Oct;12(7):431–7

The lateral arm fascial free flap for resurfacing of the hand and fingers. Chen HC, et al. **Plast Reconstr Surg** 1997 Feb; 99(2):454–9

Vascularized toe joint transfer to the hand. Chen SH, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1275–84 (29 ref.)

Aesthetic fingertip reconstruction with a free vascularized nail graft: a review of 60 flaps involving partial toe transfers. Hirasé Y, et al. **Plast Reconstr Surg** 1997 Mar; 99(3):774–84

The Brunelli reversed flow pedicle flap from the thumb. Kumar VP, et al. **Plast Reconstr Surg** 1996 Dec; 98(7):1298–301

Volcano cast to monitor revascularized digits [letter] Rockwell WB, et al. **Plast Reconstr Surg** 1997 Sep; 100(4):1072–3

Aggressive surgical treatment of digital papillary adenocarcinoma. Singla AK, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2058–60

Free vascularized transfer of the metatarsophalangeal and proximal interphalangeal joints of the second toe for reconstruction of the metacarpophalangeal joints of the thumb and index finger using a single vascular pedicle. Tsai TM, et al. **Plast Reconstr Surg** 1996 Nov;98(6):1080–6

Coverage of volar hand skin defects with great toe skin grafts [letter] Wendt JR. **Plast Reconstr Surg** 1996 Dec; 98(7):1314–5

Recovery of finger sensibility and somatosensory evoked potentials following digit-to-digit replantation in man. Chu NS. **Scand J Rehabil Med** 1996 Sep;28(3):125–31

[Personal technique for suturing the flexor tendons of the fingers with immediate mobilization] Brunelli G, et al. **Ann Chir Main** 1982;1(1):92–6 (11 ref.) (Eng. Abstr.) **(Fre)**

[Boomerang flap. A true single-stage pedicled cross finger flap] Legaillard P, et al. **Ann Chir Plast Esthet** 1996 Jun;

41(3):251–8 (Eng. Abstr.) **(Fre)**
[Merkel cell tumor of the hand in a 104-year-old patient. Case report with review of the literature] Sonak RA, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):43–5 (21 ref.) (Eng. Abstr.) **(Ger)**
[A case of a Barré-Masson tumor] Kostin AE. **Vestn Khir Im I I Grek** 1996;(1):95 **(Rus)**
[The concept of the surgical treatment of ectrodactyly in children] Tiazhelkov AP. **Vestn Khir Im I I Grek** 1996; 155(3):51–3 (Eng. Abstr.) **(Rus)**
[The surgical treatment of contractures and syndactyly in a child with epidermolysis bullosa without using autotransplantation] Vozdvizhenskiĭ SI, et al. **Vestn Khir Im I I Grek** 1996;155(3):49–50 (Eng. Abstr.) **(Rus)**

TRANSPLANTATION

Transfer of a severely damaged digit to reconstruct an amputated thumb. Foucher G, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1889–96
Lengthening of the finger fillet flap to cover dorsal wrist defects. al-Qattan MM. **J Hand Surg [Am]** 1997 May; 22(3):550–1
Contralateral transplantation of a finger for restoration of thumb function. Brüser P, et al. **J Hand Surg [Br]** 1997 Jun;22(3):336–40

ULTRASONOGRAPHY

Antenatal depiction of fetal digits with three-dimensional ultrasonography. Ploeckinger-Ulm B, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):571–4
Ultrasound bone velocity on proximal phalanges in premenopausal, perimenopausal, and postmenopausal healthy women. Aguado F, et al. **Invest Radiol** 1997 Jan; 32(1):66–70
Ultrasound velocity measured at the proximal phalanges: precision and age-related changes in normal females. Duboeuf F, et al. **Rev Rhum Engl Ed** 1996 Jun;63(6):427–34

FINGERSUCKING

A minimally obtrusive, secure mask for prevention of access to the mouth. Taylor MB, et al. **Clin Rehabil** 1997 Feb; 11(1):77–9
Bad habits and pernicious results: thumb sucking and the discipline of late-nineteenth-century paediatrics. Gillis J. **Med Hist** 1996 Jan;40(1):55–73
Sucking habits in Saudi children: prevalence, contributing factors and effects on the primary dentition. Farsi NM, et al. **Pediatr Dent** 1997 Jan–Feb;19(1):28–33 (37 ref.)

ADVERSE EFFECTS

Damage to the primary dentition resulting from thumb and finger (digit) sucking. Fukuta O, et al. **ASDC J Dent Child** 1996 Nov–Dec;63(6):403–7
A cephalometric evaluation of patients presenting with persistent digit sucking habits. Moore MB, et al. **Br J Orthod** 1997 Feb;24(1):17–23

PSYCHOLOGY

The effects of implementing program consequences with a group of individuals who engaged in sensory maintained hand mouthing. Turner WD, et al. **Res Dev Disabil** 1996 Jul–Aug;17(4):311–30

THERAPY

Changes in the dentition secondary to palatal crib therapy in digit-suckers: a preliminary study. Villa NL, et al. **Pediatr Dent** 1997 Jul–Aug;19(5):323–6

FIPV see **INFECTIOUS PERITONITIS VIRUS, FELINE**

FIRE RETARDANTS see **FLAME RETARDANTS**

FIREARMS

see related
WOUNDS, GUNSHOT

A population-based study of fatal and nonfatal firearm-related injuries. Coben JH, et al. **Acad Emerg Med** 1997 Apr;4(4):248–55
Gun safety education [letter; comment] Bryant-Bruce C. **Am Fam Physician** 1997 Mar;55(4):1078. Comment on: Am Fam Physician 1996 Sep 1;54(3):971–5, 977–8.
Gun safety education [letter; comment] Johnstone A. **Am Fam Physician** 1997 Mar;55(4):1074, 1077. Comment on: Am Fam Physician 1996 Sep 1;54(3):971–5, 977–8.
Gun safety education [letter; comment] Simon FA Jr. **Am Fam Physician** 1997 Mar;55(4):1077–8. Comment on: Am Fam Physician 1996 Sep 1;54(3):971–5, 977–8.
Public perception of safety and metal detectors in an urban emergency department. McNamara R, et al. **Am J Emerg Med** 1997 Jan;15(1):40–2
Homicidal tandem bullet wound of the chest. Bentley AJ, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):56–9 (13 ref.)
Fatal gunshot injury caused by an unusual projectile--a barrel-cleaning brush as a tandem bullet. Ellis PS. **Am J Forensic Med Pathol** 1997 Jun;18(2):168–71
Accidental firearm fatality involving a hand-crafted pen gun. Case report. Hartshorne NJ, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):92–5
Violence prevention begins at home—with nurses. Hatcher PA. **Am J Nurs** 1997 May;97(5):80
Teaching gun safety [letter] Hunter E. **Am J Nurs** 1997 Sep; 97(9):16
Comment: Gunsmoke—changing public attitudes toward smoking and firearms. Kellermann AL. **Am J Public Health** 1997 Jun;87(6):910–3
Gun availability and violent death [editorial; comment] Morgenstern H. **Am J Public Health** 1997 Jun; 87(6):899–901. Comment on: Am J Public Health 1997 Jun;87(6):974–8.
Weapon carrying among black adolescents: a social network perspective. Myers GP, et al. **Am J Public Health** 1997 Jun;87(6):1038–40
Suicide with an air rifle. Pottker TI, et al. **Ann Emerg Med** 1997 Jun;29(6):818–20
Criminality and morbidity in young victims of firearm injuries. A follow-up study. Bergman B, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:334–5
Reduction of firearm-related violence through firearm safety counseling. The role of family physicians. Price JH, et al. **Arch Fam Med** 1997 Jan–Feb;6(1):79–83
Risk factors for violent death of women in the home. Bailey JE, et al. **Arch Intern Med** 1997 Apr 14;157(7):777–82
Fears and other suspected risk factors for carrying lethal weapons among urban youths of middle-school age. Arria A, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):555–60
The association of weapon carrying and fighting on school property and other health risk and problem behaviors among high school students. DuRant RH, et al. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):360–6
Pediatricians' experience with and attitudes toward firearms. Results of a national survey. Olson LM, et al. **Arch Pediatr Adolesc Med** 1997 Apr;151(4):352–9
Training in firearm safety counseling in pediatric residency programs. Price JH, et al. **Arch Pediatr Adolesc Med** 1997 Mar;151(3):306–10
Access to firearms and the risk of suicide: a case control study [see comments] Beautrais AL, et al. **Aust N Z J Psychiatry** 1996 Dec;30(6):741–8. Comment in: Aust N Z J Psychiatry 1997 Jun;31(3):436–8.
Comment on Access to firearms and the risk of suicide: a case control study [letter; comment] Dignam P. **Aust N Z J Psychiatry** 1997 Jun;31(3):436–8. Comment on: Aust N Z J Psychiatry 1996 Dec;30(6):741–8.
Doctors should work towards elimination of all firearms and knives [letter] [see comments] Gunn WD, et al. **BMJ** 1997 Feb 15;314(7079):514. Comment in: BMJ 1997 Jun 7;314(7095):1693.
Doctors may have say on gun licences [news] Warden J. **BMJ** 1996 Oct 26;313(7064):1031
Getting the lead out [news] **Environ Health Perspect** 1996 Jan;104(1):16–7
Site of entrance wound and direction of bullet path in firearm fatalities as indicators of homicide versus suicide. Druid H. **Forensic Sci Int** 1997 Aug 4;88(2):147–62
Is the exploding powder gas of the propellant from blank cartridges sterile? Rothschild MA, et al. **Forensic Sci Int** 1996 Nov 11;83(1):1–13
The use of air weapons in attempted suicide. Campbell-Hewson G, et al. **Injury** 1997 Mar;28(2):153–8 (31 ref.)
Gun ownership associated with increased risk for murder and suicide [news] **Int J Fertil Womens Med** 1997 May–Jun; 42(3):183
Prior exposure of the entrance wound region from clothing is uncommon in firearm suicides. Karger B, et al. **Int J Legal Med** 1997;110(2):79–81
The destabilizing effect of body armour on military rifle bullets. Knudsen PJ, et al. **Int J Legal Med** 1997;110(2):82–7
Lead exposure in indoor firing ranges: environmental impact and health risk to the range users. Abudhaise BA, et al. **Int J Occup Med Environ Health** 1996;9(4):323–9
Characteristics of students who bring weapons to school. Bailey SL, et al. **J Adolesc Health** 1997 Apr;20(4):261–70
The association between weapon carrying and the use of violence among adolescents living in and around public housing. Durant RH, et al. **J Adolesc Health** 1995 Dec; 17(6):376–80
Penetrating BB shot head wound in an asymptomatic 9-year-old girl: the ultimate teaching moment. Johnson NA. **J Am Board Fam Pract** 1997 Mar–Apr;10(2):125–30 (14 ref.)
Marksmanship and vision [letter; comment] Eastlake J. **J Am Optom Assoc** 1996 May;67(5):254. Comment on: J Am Optom Assoc 1996 Feb;67(2):73–6.
Association between eye dominance and training for rifle marksmanship: a pilot study [see comments] Jones LF 3rd, et al. **J Am Optom Assoc** 1996 Feb;67(2):73–6. Comment in: J Am Optom Assoc 1996 May;67(5):254.
Marksmanship and vision [letter] Perkins G. **J Am Optom Assoc** 1996 May;67(5):254
Postural stability and skilled performance--a study on top-level and naive rifle shooters. Era P, et al. **J Biomech** 1996 Mar;29(3):301–6
Training in firearm safety counseling in family practice residency programs. Price JH, et al. **J Community Health** 1997 Apr;22(2):91–9
A firearm safety program for children: they just can't say no. Hardy MS, et al. **J Dev Behav Pediatr** 1996 Aug; 17(4):216–21
Not under the hammer: a revolver suicide. Lew EO, et al. **J Forensic Sci** 1996 Mar;41(2):317–9
Air rifles--lethal weapons. Radhakrishnan J, et al. **J Pediatr Surg** 1996 Oct;31(10):1407–8
Response of African-American adolescents in North Carolina to gun carrying by school mates. Martin SL, et al. **J Sch Health** 1996 Jan;66(1):23–6
Guns in young hands: a survey of urban teenagers' attitudes and behaviors related to handgun violence. Bergstein JM, et al. **J Trauma** 1996 Nov;41(5):794–8
Expanding handgun bullets. Padrta JC Jr, et al. **J Trauma** 1997 Sep;43(3):516–20 (41 ref.)
Regulating firearm advertisements [letter; comment] Blackman PH. **JAMA** 1997 Sep 3;278(9):702; discussion 703. Comment on: JAMA 1997 May 7;277(17):1391–7.
Regulating firearm advertisements [letter; comment] Orr DL 2nd. **JAMA** 1997 Sep 3;278(9):701–2; discussion 703. Comment on: JAMA 1997 May 7;277(17):1391–7.
Regulating firearm advertisements [letter; comment] Paola FA. **JAMA** 1997 Sep 3;278(9):702; discussion 703. Comment on: JAMA 1997 May 7;277(17):1391–7.
Regulating firearm advertisements [letter; comment] Pipas JE. **JAMA** 1997 Sep 3;278(9):702; discussion 703. Comment on: JAMA 1997 May 7;277(17):1391–7.
Physician group declares war on land mine injuries [news] Skolnick AA. **JAMA** 1997 Aug 6;278(5):375–6
Regulating firearm advertisements that promise home protection. A public health intervention [see comments] Vernick JS, et al. **JAMA** 1997 May 7;277(17):1391–7. Comment in: JAMA 1997 Sep 3;278(9):701–2; discussion 703. Comment in: JAMA 1997 Sep 3;278(9):702; discussion 703.
Firearms injuries, 1991–1995. Buechner JS. **Med Health R I** 1997 Apr;80(4):128–9
Caliber confusion: bullet localization and caliber identification with radiographs. Coy J, et al. **Mil Med** 1996 Nov;161(11):704–6
Machine gunner's recovery [letter; comment] Sonna LA, et al. **Mil Med** 1996 May;161(5):A4. Comment on: Mil Med 1995 Jul;160(7):364–6.
Unauthorised disclosure of patient information [letter] Cook N. **N Z Med J** 1997 Apr 11;110(1041):131
Craniofacial speargun injury. Hefer T, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):553–5
Serious and fatal air gun injuries: more than meets the eye. Bratton SL, et al. **Pediatrics** 1997 Oct;100(4):609–12
Firearm suicide among older men. Adamek ME, et al. **Psychiatr Serv** 1996 Mar;47(3):304–6
Impulse noise and acute acoustic trauma in Finnish conscripts. Number of shots fired and safe distances. Savolainen S, et al. **Scand Audiol** 1997;26(2):122–6
The growing use of firearms by suicidal older women, 1979–1992: a research note. Adamek ME, et al. **Suicide Life Threat Behav** 1996 Spring;26(1):71–8
[Clinical aspects of injury to the eye inflicted with gas pistols for self-defense] Gundorova RA, et al. **Vestn Oftalmol** 1996 Sep–Oct;112(4):10–12 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Wounding effects of the Winchester Black Talon bullet. McCormick GM 2nd, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):124–9
Traces of ricocheted action safety bullets. Schyma C, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):15–20
Fractures at the base of the skull in gunshots to the head. Betz P, et al. **Forensic Sci Int** 1997 May 5;86(3):155–61
Dynamic analysis of penetrating trauma [letter] Fackler ML. **J Trauma** 1997 Aug;43(2):386–8

LEGISLATION & JURISPRUDENCE

Media violence, gun control, and public policy. Zuckerman DM. **Am J Orthopsychiatry** 1996 Jul;66(3):378–89 (32 ref.)
Flawed gun policy research could endanger public safety. Webster DW, et al. **Am J Public Health** 1997 Jun; 87(6):918–21
The Maryland ban on the sale of assault pistols and high-capacity magazines: estimating the impact in Baltimore [letter] Weil DS, et al. **Am J Public Health** 1997 Feb;87(2):297–8
Nonfatal firearm misuse: licence status of perpetrators and legality of the firearms. Gardiner J, et al. **Aust N Z J Public Health** 1996 Oct;20(5):479–82
Australia's new gun laws: preventing the backslide [editorial] Peters R. **Aust N Z J Public Health** 1996 Aug;20(4):339–40
Elimination of firearms would do little to reduce premature deaths [letter; comment] Baillie-Hamilton P. **BMJ** 1997 Jun 7;314(7095):1693. Comment on: BMJ 1997 Feb 15;314(7079):514.
Getting guns out of homes [editorial] Chapman S. **BMJ** 1996 Oct 26;313(7064):1030
Guns don't die. People do. Chapman S. **BMJ** 1996 Sep 21; 313(7059):739–40
CPHA gun control campaign successful. Dafoe GH. **Can J Public Health** 1995 Nov–Dec;86(6):364 **(Eng, Fre)**
Firearms injury prevention and gun control in Canada [see comments] Chapdelaine A, et al. **Can Med Assoc J** 1996 Nov 1;155(9):1285–9. Comment in: Can Med Assoc J 1997 Jun 1;156(11):1534–5.
Keeping kids away from guns [letter; comment] Leonard KA.

FIREARMS

Can Med Assoc J 1997 Jun 1;156(11):1534–5. Comment on: Can Med Assoc J 1996 Nov 1;155(9):1285–9.
Preventing firearm violence: a physician's guide. Hunt DK. **J Gen Intern Med** 1996 Nov;11(11):694–701 (94 ref.)
State gun safe storage laws and child mortality due to firearms. Cummings P, et al. **JAMA** 1997 Oct 1; 278(13):1084–6
Guns and suicide in Australia [editorial] Martin G, et al. **Med J Aust** 1997 Jan 6;166(1):5
The first mass murder of modern times [editorial] Shepherd R. **Med Leg J** 1996;64 (Pt 3):97–8
Rubber and plastic ammunition lethal injuries: the Israeli experience. Hiss J, et al. **Med Sci Law** 1997 Apr; 37(2):139–44
At the summit. Minnesota youth lobby for gun safety. Belcamino K. **Minn Med** 1996 Feb;79(2):8–9
Liability and firearms in the waiting room [letter; comment] Nidess R. **Tex Med** 1996 Oct;92(10):16. Comment on: Tex Med 1996 Jun;92(6):7.
Concealed handgun law has safety, legal implications for physicians [see comments] Price CL. **Tex Med** 1996 Apr; 92(4):18–9. Comment in: Tex Med 1996 Jun;92(6):7.
[Information on evaluating applicants for purchase of weapons] Lukeš V. **Ceska Slov Psychiatr** 1996 May; 92(2):109–11 **(Cze)**
[Retained capacity for action in brain gunshot injury. Case report and systematic examination] Karger B, et al. **Arch Kriminol** 1997 May–Jun;199(5–6):159–66 (18 ref.) (Eng. Abstr.) **(Ger)**
[Marks on clothing and skin in absolutely and relatively close distance gunshots with fright weapons] Nadjem H, et al. **Arch Kriminol** 1996 May–Jun;197(5–6):175–84 (Eng. Abstr.) **(Ger)**
[Murder weapon in a homicide case—signal pen or bullet pen gun?] Rothschild MA, et al. **Arch Kriminol** 1996 Jan–Feb;197(1–2):31–40 (Eng. Abstr.) **(Ger)**
[Blank fright guns as assault weapons. Forensic medicine and legal aspects] Rothschild MA, et al. **Arch Kriminol** 1997 May–Jun;199(5–6):129–37 (Eng. Abstr.) **(Ger)**
[Dangerousness of blank fright guns and salute rifles] Schöning R, et al. **Arch Kriminol** 1997 May–Jun; 199(5–6):138–42 (Eng. Abstr.) **(Ger)**
[Gunshot into the eye] Schyma C, et al. **Arch Kriminol** 1996 May–Jun;197(5–6):155–64 (Eng. Abstr.) **(Ger)**

STANDARDS

[The standardization of the description of gun shells (bullets)] Emelin VV. **Sud Med Ekspert** 1996 Oct–Dec;39(4):10–1 (Eng. Abstr.) **(Rus)**

STATISTICS & NUMERICAL DATA

Weapon carriage article [editorial; comment] Hedges JR. **Acad Emerg Med** 1996 Aug;3(8):735. Comment on: Acad Emerg Med 1995 Feb;2(2):109–13; discussion 114.
Firearm ownership and safety practices: a random-digit dial survey of San Diego. Morrison TC, et al. **Am J Prev Med** 1995 Nov–Dec;11(6):364–70
The association between the purchase of a handgun and homicide or suicide [see comments] Cummings P, et al. **Am J Public Health** 1997 Jun;87(6):974–8. Comment in: Am J Public Health 1997 Jun;87(6):899–901.
Characteristics of automatic or semiautomatic firearm ownership in the United States. Hemenway D, et al. **Am J Public Health** 1997 Feb;87(2):286–8
Firearms and New Zealand suicide [letter] Cantor C. **Aust N Z J Psychiatry** 1997 Aug;31(4):608–9
Jumping the gun: firearms and the mental health of Australians. Dudley M, et al. **Aust N Z J Psychiatry** 1996 Jun;30(3):370–81
More ammunition against firearm editorial [letter; comment] Mauser GA. **Can Fam Physician** 1996 Oct;42:1897–8, 1900, 1902–3. Comment on: Can Fam Physician 1996 Jun;42:1060–2, 1073–6.
Firearms editorial full of holes [letter] Sobrian J. **Can Fam Physician** 1996 Sep;42:1661–6, 1669
Sociodemographic predictors of firearm suicide among older white males. Kaplan MS, et al. **Gerontologist** 1996 Aug; 36(4):530–3
Weapon carrying and substance abuse among college students. Presley CA, et al. **J Am Coll Health** 1997 Jul; 46(1):3–8
A profile of rural Texas adolescents who carry handguns to school. Kingery PM, et al. **J Sch Health** 1996 Jan; 66(1):18–22
When bullets don't kill. Barber CW, et al. **Public Health Rep** 1996 Nov–Dec;111(6):482–93
Firearm suicide among older women in the U.S. Kaplan MS, et al. **Soc Sci Med** 1997 May;44(9):1427–30
Firearms prevalence and storage practices in Wisconsin households. Chatterjee BF, et al. **Wis Med J** 1996 May; 95(5):286–91

FIREFLIES see **BEETLES**

FIREPROOFING AGENTS see **FLAME RETARDANTS**

FIRES

see related
BURNS, INHALATION
SMOKE INHALATION INJURY

Complications following butane inhalation and flash fire. Huston BM, et al. **Am J Forensic Med Pathol** 1997 Jun; 18(2):140–3
Suicide by self-incineration. Leth P, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):113–8
Carboxyhemoglobin levels in a series of automobile fires. Death due to crash or fire? Wirthwein DP, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):117–23
Congenital anomalies among the offspring of fire fighters. Aronson KJ, et al. **Am J Ind Med** 1996 Jul;30(1):83–6
Bronchoalveolar lavage findings in firefighters. Bergström CE, et al. **Am J Ind Med** 1997 Oct;32(4):332–6
Pulmonary function in Sardinian fire fighters. Serra A, et al. **Am J Ind Med** 1996 Jul;30(1):78–82
Airway fire during elective tracheostomy. Lim HJ, et al. **Anaesth Intensive Care** 1997 Apr;25(2):150–2
My anaesthetic machine's on fire [letter] Rogers S, et al. **Anaesthesia** 1997 May;52(5):505
Prevention of flash fires during facial surgery performed under local anesthesia. Howard BK, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):248–51
Aircraft fires, smoke toxicity, and survival. Chaturvedi AK, et al. **Aviat Space Environ Med** 1996 Mar;67(3):275–8 (18 ref.)
You're the flight surgeon. Gilleran LG. **Aviat Space Environ Med** 1996 Jan;67(1):83–4
Physiological, psychophysical, and psychological responses of firefighters to firefighting training drills. Smith DL, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1063–8
Secretary of state for health declines to promote free distribution of smoke alarms [letter] Roberts I. **BMJ** 1996 Sep 28;313(7060):814
Shack fires: a consequence of urban migration. Godwin Y, et al. **Burns** 1997 Mar;23(2):151–3
Burns of the female genitalia and perineum. Weiler-Mithoff EM, et al. **Burns** 1996 Aug;22(5):390–5 (28 ref.)
Effects of the water-soluble fraction of partially combusted crude oil from Kuwait's oil fires (from Desert Storm) on survival and growth of the marine fish Menidia beryllina. Al-Yakoob SN, et al. **Ecotoxicol Environ Saf** 1996 Nov; 35(2):142–9
The effects of different thermal environments on the physiological and psychological responses of firefighters to a training drill. Smith DL, et al. **Ergonomics** 1997 Apr; 40(4):500–10
Mortality amongst Paris fire-fighters. Deschamps S, et al. **Eur J Epidemiol** 1995 Dec;11(6):643–6
Use of wrong gas in laparoscopic insufflator causes fire. **Health Devices** 1994 Oct–Nov;23(10–11):456–7
Electrosurgical airway fires still a hot topic. **Health Devices** 1996 Jul;25(7):260–2
Restructuring life after home loss by fire. Stern PN, et al. **Image J Nurs Sch** 1996 Spring;28(1):11–6
Asthma presentations to emergency departments in western Sydney during the January 1994 Bushfires. Smith MA, et al. **Int J Epidemiol** 1996 Dec;25(6):1227–36
Posttraumatic symptomatology in children and adolescents after an industrial fire. March JS, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug;36(8):1080–8
Effects of a natural marsh fire on larval populations of Culex Salinarius in east Texas. Janousek TE, et al. **J Am Mosq Control Assoc** 1994 Jun;10(2 Pt 1):233–5
Raging wildfire in Alaska forces evacuation of homes, displaces companion animals [news] Meehan SK. **J Am Vet Med Assoc** 1996 Aug 15;209(4):707, 710
Protecting the public's health & investigating the potential for exposure: the BPS Chemical Company fire & explosion in West Helena. **J Ark Med Soc** 1997 Aug;94(3):125–6
Substance abuse in victims of fire. Barillo DJ, et al. **J Burn Care Rehabil** 1996 Jan–Feb;17(1):71–6
Propane gas dangers and strategies for prevention of injuries. Smoot EC 3rd, et al. **J Burn Care Rehabil** 1996 May–Jun; 17(3):273–9
Commentary on "Evaluation of canines for accelerant detection at fire scenes" (J Forensic Sci 1994 Nov; 39(60):1528–1536)—sensitivity vs. specificity [letter; comment] Schultz BW, et al. **J Forensic Sci** 1996 Mar; 41(2):187. Comment on: J Forensic Sci 1994 Nov;39(6):1528–36.
Medical surveillance of hazardous materials response fire fighters: a two-year prospective study. Kales SN, et al. **J Occup Environ Med** 1997 Mar;39(3):238–47
Assessment of exposure to polycyclic aromatic hydrocarbons during firefighting by measurement of urinary 1-hydroxypyrene. Moen BE, et al. **J Occup Environ Med** 1997 Jun;39(6):515–9
Fire walking in Singapore: a profile of the burn patient. Sayampanathan SR, et al. **J R Coll Surg Edinb** 1997 Apr; 42(2):131–4
Dissociative responses in the immediate aftermath of the Oakland/Berkeley firestorm. Koopman C, et al. **J Trauma Stress** 1996 Jul;9(3):521–40
From the Centers for Disease Control and Prevention. Urban community intervention to prevent halloween arson—Detroit, Michigan, 1985–1996. **JAMA** 1997 May 28;277(20):1587–8
Fire during arthroscopy—an unusual complication. Sadat-Ali M, et al. **Knee Surg Sports Traumatol Arthrosc** 1995; 3(3):178–9
Urban community intervention to prevent Halloween arson—Detroit, Michigan, 1985–1996. **MMWR Morb Mortal Wkly Rep** 1997 Apr 11; 46(14):299–304
Forest fires cause pollution crisis in Asia [news] Swinbanks D. **Nature** 1997 Sep 25;389(6649):321
A case of death due to outbreak of fire during thinner abuse. Ohshima T, et al. **Nippon Hoigaku Zasshi** 1996 Feb; 50(1):33–6
Fire fighters' health and safety during overhaul operations. Anderson DO. **Occup Health Saf** 1997 Aug;66(8):44–5
Smoke inhalation among firefighters. Bizovi KE, et al. **Occup Med** 1995 Oct–Dec;10(4):721–33 (52 ref.)
Burn injuries in firefighters. Cimino VG, et al. **Occup Med** 1995 Oct–Dec;10(4):707–20 (34 ref.)
Firefighters: fitness for duty. Gerkin D. **Occup Med** 1995 Oct–Dec;10(4):871–6 (12 ref.)
Occupational stress in contemporary fire service. Gist R, et al. **Occup Med** 1995 Oct–Dec;10(4):763–87 (53 ref.)
The risk of cancer in firefighters. Golden AL, et al. **Occup Med** 1995 Oct–Dec;10(4):803–20 (73 ref.)
Respiratory health hazards and lung function in wildland firefighters. Harrison R, et al. **Occup Med** 1995 Oct–Dec; 10(4):857–70 (41 ref.)
Combustion products and other firefighter exposures. Lees PS. **Occup Med** 1995 Oct–Dec;10(4):691–706 (43 ref.)
Reproductive hazards and firefighters. McDiarmid MA, et al. **Occup Med** 1995 Oct–Dec;10(4):829–41 (84 ref.)
Cardiovascular disease among firefighters. Melius JM. **Occup Med** 1995 Oct–Dec;10(4):821–7 (45 ref.)
Musculoskeletal injury: ergonomics and physical fitness in firefighters. Reichelt PA, et al. **Occup Med** 1995 Oct–Dec; 10(4):735–46
Pulmonary effects of firefighting. Scannell CH, et al. **Occup Med** 1995 Oct–Dec;10(4):789–801 (42 ref.)
Noise and hearing loss in firefighting. Tubbs RL. **Occup Med** 1995 Oct–Dec;10(4):843–56 (38 ref.)
Communicable disease and firefighters. Weaver VM, et al. **Occup Med** 1995 Oct–Dec;10(4):747–62 (59 ref.)
Use of contact lenses by firefighters: Part 2. Clinical evaluation. Owen CG, et al. **Ophthalmic Physiol Opt** 1997 May;17(3):205–15
Use of contact lenses by firefighters. Part 1: Questionnaire data. Owen CG, et al. **Ophthalmic Physiol Opt** 1997 Mar; 17(2):102–11
Significant reduction of UVB caused by smoke from biomass burning in Brazil. Mims FM 3rd. **Photochem Photobiol** 1996 Nov;64(5):814–6
Risk of fires when using defibrillators in an oxygen enriched atmosphere [letter] Ward ME. **Resuscitation** 1996 Apr; 31(2):173
Psychiatric morbidity following a natural disaster: an Australian bushfire. McFarlane AC, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 Jul;32(5):261–8
New research avenues in combustion toxicology. **Toxicology** 1996 Dec 31;115(1–3):185–200
Smoke toxicity 'standard' test method for materials. **Toxicology** 1996 Dec 31;115(1–3):201–22
Situational smoke toxicity testing: hazard assessment as the 'front end' of a smoke toxicity test. Clarke FB, et al. **Toxicology** 1996 Dec 31;115(1–3):179–84 (7 ref.)
In-flight cabin smoke control. Eklund TI. **Toxicology** 1996 Dec 31;115(1–3):135–44
Computer modelling of human behaviour in aircraft fire accidents. Galea ER, et al. **Toxicology** 1996 Dec 31; 115(1–3):63–78 (34 ref.)
Overview of combustion toxicology. Hartzell GE. **Toxicology** 1996 Dec 31;115(1–3):7–23 (70 ref.)
Predicted combustion product deposition in the human airway. Kaufman JW, et al. **Toxicology** 1996 Dec 31; 115(1–3):123–8
New research avenues in toxicology: 7-gas N-Gas Model, toxicant suppressants, and genetic toxicology. Levin BC. **Toxicology** 1996 Dec 31;115(1–3):89–106 (41 ref.)
Methodologic considerations in the interpretation of postmortem carboxyhemoglobin concentrations. Levine B, et al. **Toxicology** 1996 Dec 31;115(1–3):129–34
Behavioural impairment in smoke environments. Purser D. **Toxicology** 1996 Dec 31;115(1–3):25–40 (17 ref.)
An overview of the development, validation, and application of neurobehavioral and neuromolecular toxicity assessment batteries: potential applications to combustion toxicology. Rossi J 3rd, et al. **Toxicology** 1996 Dec 31;115(1–3):107–17 (18 ref.)
Application of full-scale fire tests to characterize and improve the aircraft postcrash fire environment. Sarkos CP. **Toxicology** 1996 Dec 31;115(1–3):79–87 (16 ref.)
Ventilation effects on combustion products. Tewarson A. **Toxicology** 1996 Dec 31;115(1–3):145–56 (9 ref.)
The management of aircraft passenger survival in fire. Trimble EJ. **Toxicology** 1996 Dec 31;115(1–3):41–61 (25 ref.)
Social support and network conflict in firefighters and paramedics. Beaton RD, et al. **West J Nurs Res** 1997 Jun; 19(3):297–313
[Emergency medicine for the practitioner: management of patients who are victims of a smoky fire] Kirchner N, et al. **Rev Med Suisse Romande** 1997 Apr;117(4):325–9 **(Fre)**
[Catastrophy management in the large clinic. Bridges between fundamental research and rescue practice] Kröger F, et al. **Gesundheitswesen** 1997 Jul;59(7):473–8 (Eng. Abstr.) **(Ger)**
[Playing with fire...] Bar-Dayan Y, et al. **Harefuah** 1996 Dec 1;131(11):474–6, 535 (Eng. Abstr.) **(Heb)**

[Substantiation of criteria for evaluating fire and explosion hazards of chemical cargo transported by railroad] Zemskii GT, et al. **Gig Sanit** 1996 Sep–Oct;(5):51–4 **(Rus)**

[Atmospheric contamination by 137Cs during forest fires in the Chernobyl area] Azarov SI. **Radiats Biol Radioecol** 1996 Jul–Aug;36(4):506–15 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Uptake of polycyclic aromatic hydrocarbons among trainers in a fire–fighting training facility. Feunekes FD, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):23–8

Pulmonary function and respiratory symptoms in forest firefighters. Betchley C, et al. **Am J Ind Med** 1997 May; 31(5):503–9

Fire hazard in oxygen–enriched atmospheres at low barometric pressures. West JB. **Aviat Space Environ Med** 1997 Feb;68(2):159–62 (6 ref.)

NFPA 99–1996: changes for gas and vacuum systems. **Health Devices** 1996 Dec;25(12):474–5

Use of nurse call pendants and pillow speakers by patients receiving oxygen therapy. **Health Devices** 1996 Dec; 25(12):477–9

Identifying homes with inadequate smoke detector protection from residential fires in Pennsylvania. Forjuoh SN, et al. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 1):86–91

Progress towards a fire–safe cigarette. Brigham PA, et al. **J Public Health Policy** 1995;16(4):433–9 (0 ref.)

National Fire Prevention Week—October 5–11, 1997. **MMWR Morb Mortal Wkly Rep** 1997 Sep 26;46(38):901–2

Class distinctions. Those who don't distinguish their flammable liquids' flashpoint classes, storage specifications and compliance codes can wind up trying to extinguish a blaze. Buric A. **Occup Health Saf** 1994 Nov;63(11):42–4, 50

Reasons for rejection: why people fail to qualify as firefighters. Ide CW. **Occup Med (Oxf)** 1996 Dec; 46(6):421–7

Predictors of weight increases over 7 years in fire fighters and paramedics. Gerace TA, et al. **Prev Med** 1996 Sep–Oct; 25(5):593–600

STATISTICS & NUMERICAL DATA

A review of crash data analysis in a defect and recall investigation of the general motors C/K pickup trucks. Hubele NF, et al. **Accid Anal Prev** 1996 Jan;28(1):33–42

The dynamics of flash fires involving flammable hydrocarbon liquids. DeHaan JD. **Am J Forensic Med Pathol** 1996 Mar; 17(1):24–31

Progress towards a fire–safe cigarette. Brigham PA, et al. **J Public Health Policy** 1995;16(4):433–9 (0 ref.)

FIRESETTING BEHAVIOR

Gas residues of engine starting fluid in postmortem sample from an arsonist. Schuberth J. **J Forensic Sci** 1997 Jan; 42(1):144–7

From the Centers for Disease Control and Prevention. Urban community intervention to prevent halloween arson—Detroit, Michigan, 1985–1996. **JAMA** 1997 May 28;277(20):1587–8

Urban community intervention to prevent Halloween arson—Detroit, Michigan, 1985–1996. **MMWR Morb Mortal Wkly Rep** 1997 Apr 11; 46(14):299–304

DIAGNOSIS

[Arson usually is not pyromania] Plinsinga AE, et al. **Ned Tijdschr Geneeskd** 1997 Jan 18;141(3):129–31 (Eng. Abstr.) **(Dut)**

["Pyromania" and arson. A psychiatric and criminologic data analysis] Laubichler W, et al. **Nervenarzt** 1996 Sep; 67(9):774–80 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Criminal recidivism and family histories of schizophrenic and nonschizophrenic fire setters: comorbid alcohol dependence in schizophrenic fire setters. Repo E, et al. **J Am Acad Psychiatry Law** 1997;25(2):207–15

HISTORY

[Head teacher Wagner and Professor Gaupp—a 25–year relationship catamnesis] Neuzner B. **Fortschr Neurol Psychiatr** 1996 Jul;64(7):243–9 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Criminal and psychiatric histories of Finnish arsonists. Repo E, et al. **Acta Psychiatr Scand** 1997 Apr;95(4):318–23

Non–referral of psychopathological child firesetters to mental health services. Pierce JL, et al. **J Clin Psychol** 1997 Jun; 53(4):349–50

Investigation of a murder case involving arson. Tsaroom S. **J Forensic Sci** 1996 Nov;41(6):1064–7

Cerebellar arachnoid cyst in a firesetter: the weight of organic lesions in arson. Heidrich A, et al. **J Psychiatry Neurosci** 1996 May;21(3):202–6 (35 ref.)

Arson and epilepsy. Brook R, et al. **Med Sci Law** 1996 Jul; 36(3):268–71

[Arson as a symptom of borderline personality disorder] Garlipp P, et al. **Psychiatr Prax** 1996 Nov;23(6):303–4 **(Ger)**

FIRST AID

Usefulness of self–administration of intramuscular lidocaine in the prehospital setting for ventricular tachyarrhythmias unassociated with acute myocardial infarction (the "Shahal" experience in Israel). Roth A, et al. **Am J Cardiol** 1997 Mar 1;79(5):611–4

First aid and transportation of burned patients during mass disasters. Hadjiiski O, et al. **Am J Emerg Med** 1996 Oct; 14(6):613–4

Re: Pit viper bites: rational management in locales in which copperheads and cottonmouths predominate [letter; comment] Bucknall NC. **Ann Plast Surg** 1997 Mar; 38(3):302–4. Comment on: Ann Plast Surg 1996 Mar;36(3):276–85.

Training in first aid at the workplace. van Sprundel M. **Bull Inst Marit Trop Med Gdynia** 1996;47(1–4):45–51

Prehospital use of activated charcoal: a pilot study. Crockett R, et al. **J Emerg Med** 1996 May–Jun;14(3):335–8

Hand over glove [letter] Southern S, et al. **J Hand Surg [Br]** 1997 Jun;22(3):428

Medical training in the army from first aid to advanced trauma life support the development of an integrated package [editorial] Bolton JP. **J R Army Med Corps** 1994 Feb;140(1):3–5

Medical training in the army from first aid to advanced trauma life support. The development of an integrated package [letter] Gale RG. **J R Army Med Corps** 1994 Jun; 140(2):99–100

Providing first aid assistance in confined spaces. Johnson LF. **Occup Health Saf** 1996 Apr;65(4):34, 38

Pain relievers in first aid cabinets [letter] Lloyd K. **Occup Health Saf** 1996 Nov;65(11):10

The treatment of hydrofluoric acid burns. Matsuno K. **Occup Med (Oxf)** 1996 Aug;46(4):313–7

Skills of lay people in checking the carotid pulse. Bahr J, et al. **Resuscitation** 1997 Aug;35(1):23–6

The dangers of taking 'T in the Park'. Kerr GW, et al. **Scott Med J** 1996 Dec;41(6):165–6

[To promote socialization and high efficiency high quality of prehospital emergency care (editorial)] Li Z. **Chung Hua I Hsueh Tsa Chih** 1996 Nov;76(11):805–6 **(Chi)**

[Portable emergency kits prescribed for patients allergic to hymenoptera venoms] Wessel F. **Allerg Immunol (Paris)** 1996 Oct;28(8):282–7 (Eng. Abstr.) **(Fre)**

[Needlestick injury with infectious material—what is the procedure?] Gürtler L. **Fortschr Med** 1997 Feb 10; 115(4):45–6 **(Ger)**

[Drowning is one of the most frequent causes of death in children(interview by Stefanie Kraus)] Laub MC. **Fortschr Med** 1996 Sep 10;114(25):12, 14–5 **(Ger)**

[What should be done after needlestick injuries with possible HIV exposure?] Marcus U. **Fortschr Med** 1996 Feb 10; 114(4):23–4 **(Ger)**

[Anaphylactic shock. Principles and acute therapy] Flesche CW, et al. **Hautarzt** 1996 Aug;47(8):650–60; quiz 660 **(Ger)**

[Systemic release of mediators at the accident site and in the early phase after trauma] Gebhard F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:489–94 (Eng. Abstr.) **(Ger)**

[Analysis of primary management of bladder malfunction in traumatic paraplegic patients] Zermann DH, et al. **Zentralbl Chir** 1997;122(3):177–80 (Eng. Abstr.) **(Ger)**

[Emergency management of polytrauma patients] Ziegenfuss T. **Zentralbl Chir** 1996;121(11):924–42 (91 ref.) (Eng. Abstr.) **(Ger)**

[Prehospital care for the victims in road traffic accidents] Levenets VN, et al. **Klin Khir** 1995;(1):25–7 **(Rus)**

[The rising of first aid efficiency to the rural population] Pozdeev VG. **Probl Sotsialnoi Gig Istor Med** 1994 Jul–Aug; (4):36–9 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

A laboratory assessment of oxygen delivery from a portable chemical generator. Murray WB, et al. **Anaesthesia** 1996 Dec;51(12):1127–8

First, do no harm: the role of defibrillators and advanced medical care in commercial aviation [editorial] McKenas DK. **Aviat Space Environ Med** 1997 May;68(5):365–7

Policy. Medical emergencies on the fly [news] **Hosp Health Netw** 1996 Dec 20;70(24):10

METHODS

Pharmacology in space: pharmacotherapy. Pavy–Le Traon A, et al. **Adv Space Biol Med** 1997;6:93–105

The management of blast injury. Guzzi LM, et al. **Eur J Emerg Med** 1996 Dec;3(4):252–5 (28 ref.)

First aid treatment of epistaxis—are the patients well informed? Lavy JA, et al. **J Accid Emerg Med** 1996 May; 13(3):193–5

Obstetric first aid in the community—partners in safe motherhood. A strategy for reducing maternal mortality. Sibley L, et al. **J Nurse Midwifery** 1997 Mar–Apr; 42(2):117–21

Emergency care for snake bites [letter] Knight J. **Nurse Pract** 1996 Dec;21(12 Pt 1):16, 92

Clinical trial of intramuscular anti–snake venom administration as a first aid measure in the field in the management of Russell's viper bite patients. Win–Aung, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):494–7

PSYCHOLOGY

Bystander–initiated cardiopulmonary resuscitation out–of–hospital. A first description of the bystanders and their experiences. Axelsson A, et al. **Resuscitation** 1996 Nov;33(1):3–11

STANDARDS

Single–rescuer adult basic life support: an advisory statement from the Basic Life Support Working Group of the International Liaison Committee on Resuscitation. Handley AJ, et al. **Circulation** 1997 Apr 15;95(8):2174–9

The universal advanced life support algorithm: an advisory statement from the Advanced Life Support Working Group of the International Liaison Committee on Resuscitation. Kloeck W, et al. **Circulation** 1997 Apr 15; 95(8):2180–2

FIRST–PASS RADIONUCLIDE ANGIOGRAPHY see **VENTRICULOGRAPHY, FIRST–PASS**

FIRST–PASS VENTRICULOGRAPHY see **VENTRICULOGRAPHY, FIRST–PASS**

FISCHER RATS see **RATS, INBRED F344**

FISH DISEASES

Cataract development in Atlantic salmon (Salmo salar L) in fresh water. Bjerkås E, et al. **Acta Vet Scand** 1996; 37(3):351–60

Experiences with different vaccines and vaccination procedures to control furunculosis in sea–reared Atlantic salmon. Lillehaug A. **Acta Vet Scand Suppl** 1996;90:57–62

Evaluation of filamentous bacteriophage as immunogens in Atlantic salmon. Coull JJ, et al. **Biochem Soc Trans** 1996 May;24(2):255S

Identification and expression of antigens from Lepeophtheirus salmonis for use in vaccination trials. Labus MB, et al. **Biochem Soc Trans** 1996 May;24(2):254S

Fish Vaccinology. Oslo, Norway, June 5–7, 1996. Symposium proceedings and abstracts. **Dev Biol Stand** 1997; 90:1–484

Protective effect of lysozyme–galactomannan or lysozyme–palmitic acid conjugates against Edwardsiella tarda infection in carp, Cyprinus carpio L. Nakamura S, et al. **FEBS Lett** 1996 Apr 1;383(3):251–4

Trophic controls on stage transformations of a toxic ambush–predator dinoflagellate. Burkholder JM, et al. **J Eukaryot Microbiol** 1997 May–Jun;44(3):200–5 (29 ref.)

Distribution and variation of NV genes in fish rhabdoviruses. Kurath G, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):113–7

Intestinal coccidiosis of channel catfish, Ictalurus punctatus. Brown DW, et al. **J Vet Diagn Invest** 1996 Oct;8(4):510–2

Epitheliocystis infection in cultured white sturgeon (Acipenser transmontanus): antigenic and ultrastructural similarities of the causative agent to the chlamydiae. Groff JM, et al. **J Vet Diagn Invest** 1996 Apr;8(2):172–80

Mineralization of the bulbus arteriosus in adult rainbow trout (Oncorhynchus mykiss). Heidel JR, et al. **J Vet Diagn Invest** 1997 Apr;9(2):213–6

Cryptosporidiosis in a tropical freshwater catfish (Plecostomus spp.). Muench TR, et al. **J Vet Diagn Invest** 1997 Jan;9(1):87–90

Internal hydrocephalus of channel catfish fry (Ictalurus punctatus). Muench TR, et al. **J Vet Diagn Invest** 1997 Jul;9(3):306–8

The use of kidney biopsy of broodstock steelhead trout (Oncorhyncus mykiss) to determine the status of bacterial kidney disease infection. White MR, et al. **J Vet Diagn Invest** 1996 Oct;8(4):519–22

Genomic characterization of the virus causing infectious salmon anemia in Atlantic salmon (Salmo salar L.): an orthomyxo–like virus in a teleost. Mjaaland S, et al. **J Virol** 1997 Oct;71(10):7681–6

Molecular characterization of a piscine retrovirus, walleye dermal sarcoma virus. Holzschu DL, et al. **Leukemia** 1997 Apr;11 Suppl 3:172–5

Plasmacytoid leukemia of chinook salmon. Kent ML, et al. **Leukemia** 1997 Apr;11 Suppl 3:170–1

Ultrastructure and cytochemistry study of Eimeria sparis (Protozoa:Apicomplexa) stages from the intestine of gilthead sea bream Sparus aurata L. (Pisces:teleostei). Alvarez–Pellitero P, et al. **Parasitol Res** 1997;83(2):126–36

Establishment, survival and site selection of the cestode Eubothrium crassum in brown trout, Salmo trutta. Kennedy CR. **Parasitology** 1996 Mar;112 (Pt 3):347–55

A CDKN2–like polymorphism in Xiphophorus LG V is associated with UV–B–induced melanoma formation in platyfish–swordtail hybrids. Nairn RS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13042–7

Analysis of genetic factors and molecular mechanisms in the development of hereditary and carcinogen–induced tumors of Xiphophorus. Schartl A, et al. **Recent Results Cancer Res** 1997;143:225–35 (24 ref.)

Brucellosis in fish. Salem SF, et al. **Vet Med (Praha)** 1997 Jan;42(1):5–7

Marine parasitology with special reference to Japanese fisheries and mariculture. Ogawa K. **Vet Parasitol** 1996

Aug;64(1–2):95–105 (36 ref.)
[Gas bubble disease of fish] Bohl M. **Tierarztl Prax** 1997 May; 25(3):284–8 (19 ref.) (Eng. Abstr.) **(Ger)**

BLOOD

Adherence of carp leucocytes to adults and cercariae of the blood fluke Sanguinicola inermis. Richards DT, et al. **J Helminthol** 1996 Mar;70(1):63–7
[Changes in the blood morphofunctional characteristics of cyprinid fishes in ammonia poisoning] Hrubinko VV, et al. **Fiziol Zh** 1996;42(1–2):40–6 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED

Similarities and differences between the massive eel (Anguilla anguilla L.) devastations that occurred in Lake Balaton in 1991 and 1995. Bálint T, et al. **Ecotoxicol Environ Saf** 1997 Jun;37(1):17–23
Skin and liver diseases induced in flounder (Platichthys flesus) after long–term exposure to contaminated sediments in large–scale mesocosms. Vethaak AD, et al. **Environ Health Perspect** 1996 Nov;104(11):1218–29
Aquatic pollution–induced immunotoxicity in wildlife species. Luebke RW, et al. **Fundam Appl Toxicol** 1997 May; 37(1):1–15
Electron microscopic perspectives of gill pathology induced by 1–naphthyl–N–methylcarbamate in the goldfish (Carassius auratus Linnaeus). Pfeiffer CJ, et al. **Histol Histopathol** 1997 Jul;12(3):645–53
Evaluation of gentamicin–induced nephrotoxicosis in toadfish. Reimschuessel R, et al. **J Am Vet Med Assoc** 1996 Jul 1;209(1):137–9
Feminization of male carp [letter] Gimeno S, et al. **Nature** 1996 Nov 21;384(6606):221–2
Scientists angle for answers [news] Kaiser J. **Science** 1996 Dec 13;274(5294):1837–8
[Changes in the blood morphofunctional characteristics of cyprinid fishes in ammonia poisoning] Hrubinko VV, et al. **Fiziol Zh** 1996;42(1–2):40–6 (Eng. Abstr.) **(Ukr)**

DIAGNOSIS

A method for direct DNA amplification of uncharacterized DNA viruses and for development of a viral polymerase chain reaction assay: application to the red sea bream iridovirus. Oshima S, et al. **Anal Biochem** 1996 Nov 1; 242(1):15–9
An enzyme–linked immunosorbent assay for detection of Vibrio vulnificus biotype 2: development and field studies. Biosca EG, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):537–42
Task force investigates disease [news] Murray G. **Aust Vet J** 1996 Sep;74(3):251
Papillomatosis of a farmed black cod in British Columbia. Brocklebank JR. **Can Vet J** 1996 Sep;37(9):556
Protozoal dermatitis of farmed Atlantic salmon in British Columbia. Brocklebank JR. **Can Vet J** 1997 Jun;38(6):386–7
Systemic nematodosis in farmed coho salmon in British Columbia. Brocklebank JR, et al. **Can Vet J** 1996 Aug; 37(8):496–8
Haemobaphes disphaerocephalus, an accidental parasite of seawater pen–reared Atlantic salmon. Kent ML, et al. **Can Vet J** 1997 Feb;38(2):110–1
PCR and probe–PCR assays to monitor broodstock Atlantic salmon (Salmo salar L.) ovarian fluid and kidney tissue for presence of DNA of the fish pathogen Renibacterium salmoninarum. Miriam A, et al. **J Clin Microbiol** 1997 Jun; 35(6):1322–6
Preparation and applications of the International Aquatic Animal Health Code and Diagnostic Manual for Aquatic Animal Diseases of the Office International des Epizooties. Håstein T. **Rev Sci Tech** 1996 Jun;15(2):723–31 (4 ref.)
Clinical infectious pancreatic necrosis virus infection in farmed halibut in the United Kingdom. Rodger HD, et al. **Vet Rec** 1997 Apr 12;140(15):401–2

DRUG THERAPY

First use in North America of azamethiphos to treat Atlantic salmon for sea lice infestation: procedures and efficacy. O'Halloran J, et al. **Can Vet J** 1996 Oct;37(10):610–1
Surveillance of drug prescribing for farmed fish in Norway: possible applications of computerized prescription information. Bangen M, et al. **J Vet Pharmacol Ther** 1996 Feb;19(1):78–81
Comparison in prescribing patterns of antibacterial drugs in salmonid farming in Norway during the periods 1980–1988 and 1989–1994. Grave K, et al. **J Vet Pharmacol Ther** 1996 Jun;19(3):184–91
The control of ichthyophthiriasis by a medicated food containing quinine: efficacy tests and ultrastructure investigations. Schmahl G, et al. **Parasitol Res** 1996; 82(8):697–705
Usage of antibacterial and antiparasitic drugs in animals in Sweden between 1988 and 1993 [published erratum appears in Vet Rec 1996 Oct 5;139(14):350] Björnerot L, et al. **Vet Rec** 1996 Sep 21;139(12):282–6
Control of sea lice on salmon [letter; comment] Braidwood J. **Vet Rec** 1997 Mar 8;140(10):263–4. Comment on: Vet Rec 1997 Feb 22;140(8):212.
Novel cypermethrin formulation for the control of sea lice on salmon (Salmo salar) [see comments] Hart JL, et al. **Vet Rec** 1997 Feb 15;140(7):179–81. Comment in: Vet Rec 1997 Feb 22;140(8):212.
Control of sea lice in salmon using unlicensed products [letter; comment] [see comments] Muir I. **Vet Rec** 1997 Feb 22;140(8):212. Comment on: Vet Rec 1997 Feb 15;140(7):179–81. Comment in: Vet Rec 1997 Mar 8;140(10):263–4.

ENZYMOLOGY

Vitamin A–deficiency and its effects on the lysosomal enzymes of fish. Harikumar P, et al. **Int J Vitam Nutr Res** 1996;66(2):97–100

EPIDEMIOLOGY

Dynamics of Anguillicola crassus (Nematoda: Dracunculoidea) larval infection in paratenic host fishes of Lake Balaton, Hungary. Székely C. **Acta Vet Hung** 1995; 43(4):401–22
Lymphocystis disease in snapper (Pagrus auratus) from Spencer Gulf, South Australia. Durham PJ, et al. **Aust Vet J** 1996 Oct;74(4):312–3
Occurrence of cutaneous infections of Myxobolus episquamalis (Myxozoa:Myxobolidae) in sea mullet, Mugil cephalus L, in Australia. Rothwell JT, et al. **Aust Vet J** 1997 May;75(5):349–52
Protozoal dermatitis of farmed Atlantic salmon in British Columbia. Brocklebank JR. **Can Vet J** 1997 Jun;38(6):386–7
Descriptive epidemiology of marine anemia in seapen–reared salmon in southern British Columbia. Stephen C, et al. **Can Vet J** 1996 Jul;37(7):420–5
Spreading of introduced monogeneans Pseudodactylogyrus anguillae and P. bini among eel populations in the Czech Republic. Skoríková B, et al. **Folia Parasitol (Praha)** 1996; 43(2):155–6
Finnish salmon resistant to Gyrodactylus salaris: a long–term study at fish farms. Rintamäki–Kinnunen P, et al. **Int J Parasitol** 1996 Jul;26(7):723–32
Epizootiology of protozoans in farmed salmonids at northern latitudes. Rintamäki–Kinnunen P, et al. **Int J Parasitol** 1997 Jan;27(1):89–99
Colonization and establishment of Pomphorhynchus laevis (Acanthocephala) in an isolated English river. Kennedy CR. **J Helminthol** 1996 Mar;70(1):27–31
On the distribution and abundance of eel parasites in Nova Scotia: local versus regional patterns. Barker DE, et al. **J Parasitol** 1996 Oct;82(5):697–701
Prevalence of Eustrongylides ignotus in mosquitofish (Gambusia holbrooki) in Florida: historical and regional comparisons. Frederick PC, et al. **J Wildl Dis** 1996 Jul; 32(3):552–5
Seasonal occurrence and maturation of Neoechinorhynchus rutili (Acanthocephala) in barbel, Barbus barbus (Pisces), of the Jihlava River, Czech Republic. Moravec F, et al. **Parasite** 1994 Sep;1(3):271–8
A processing plant survey of external lesions of American eels (Anguilla rostrata) from Lake Ontario and the St. Lawrence River, Canada. Dutil LT, et al. **Prev Vet Med** 1997 Jul;31(1–2):19–32
Disease problems of salmonid fish in Japan caused by international trade. Yoshimizu M. **Rev Sci Tech** 1996 Jun; 15(2):533–49 (28 ref.)
Diseases of freshwater fish. Haenen OL. **Vet Q** 1996;18 Suppl 3:S132–3 (24 ref.)
Fish diseases and environmental quality. Vethaak D. **Vet Q** 1996;18 Suppl 3:S130–1 (12 ref.)
Observations on the helminths of harbour porpoises (Phocoena phocoena) and common guillemots (Uria aalge) from the Belgian and German coasts. Brosens L, et al. **Vet Rec** 1996 Sep 14;139(11):254–7
An outbreak of amoebic gill disease in Ireland. Rodger HD, et al. **Vet Rec** 1996 Oct 5;139(14):348–9
Clinical infectious pancreatic necrosis virus infection in farmed halibut in the United Kingdom. Rodger HD, et al. **Vet Rec** 1997 Apr 12;140(15):401–2
Gas bubble disease in farmed fish in Saudi Arabia. Saeed MO, et al. **Vet Rec** 1997 Jun 28;140(26):682–4
Water quality parameters associated with Aeromonas spp–affected hatcheries. Ortega C, et al. **Vet Res** 1996; 27(6):553–60

ETIOLOGY

Influence of environmental temperature on experimental infection of redfin perch (Perca fluviatilis) and rainbow trout (Oncorhynchus mykiss) with epizootic haematopoietic necrosis virus, an Australian iridovirus. Whittington RJ, et al. **Aust Vet J** 1995 Nov;72(11):421–4
Differences in patterns of meningoencephalitis due to bacterial kidney disease in farmed Atlantic and chinook salmon. Speare DJ. **Res Vet Sci** 1997 Jan–Feb;62(1):79–80
PCR and RT–PCR analysis of infection and transcriptional activity of walleye dermal sarcoma virus (WDSV) in organs of adult walleyes (Stizostedion vitreum). Poulet FM, et al. **Vet Pathol** 1996 Jan;33(1):66–73
Fish diseases and environmental quality. Vethaak D. **Vet Q** 1996;18 Suppl 3:S130–1 (12 ref.)
Gas bubble disease in farmed fish in Saudi Arabia. Saeed MO, et al. **Vet Rec** 1997 Jun 28;140(26):682–4
[The etiology and diagnosis of "black spot disease" of fish] Kurochkin IuV, et al. **Parazitologiia** 1996 Mar–Apr; 30(2):117–25 (93 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

Susceptibility to the development of pigment cell tumors in a clone of the Amazon molly, Poecilia formosa, introduced through a microchromosome. Schartl A, et al. **Cancer Res** 1997 Jul 15;57(14):2993–3000
[Pain in the breeding of fish] Kölle P, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb;104(2):74–5 (Eng. Abstr.) **(Ger)**

HISTORY

A historical review of fish vaccinology. Evelyn TP. **Dev Biol Stand** 1997;90:3–12

IMMUNOLOGY

Anti–viral cytotoxic cells in the channel catfish (Ictalurus punctatus). Hogan RJ, et al. **Dev Comp Immunol** 1996 Mar–Apr;20(2):115–27
Damselfish with neurofibromatosis exhibit cytotoxicity towards retrovirus infected cells. McKinney EC, et al. **Dev Comp Immunol** 1997 May–Jun;21(3):287–98
The in vitro effect of Khawia sinensis on leucocyte activity in carp (Cyprinus carpio). Morley NJ, et al. **J Helminthol** 1997 Mar;71(1):47–52
Temperature modulation of the response of Ig–positive cells to Goussia carpelli (Protozoa: Apicomplexa) infections in carp, Cyprinus Carpio L. Steinhagen D. **J Parasitol** 1997 Jun;83(3):434–9
Cell–mediated immune response and T–like cells in thymectomized Oncorhynchus mykiss (Walbaum) infected with or vaccinated against the pathogenic haemoflagellate Cryptobia salmositica Katz, 1951. Feng S, et al. **Parasitol Res** 1996;82(7):604–11
Immunostimulating effect of growth hormone: in–vivo administration of growth hormone in rainbow trout enhances resistance to Vibrio anguillarum infection. Sakai M, et al. **Vet Immunol Immunopathol** 1997 Jun; 57(1–2):147–52

METABOLISM

Mutagenic DNA base modifications are correlated with lesions in nonneoplastic hepatic tissue of the English sole carcinogenesis model. Malins DC, et al. **Cancer Res** 1996 Dec 15;56(24):5563–5
Histological and histochemical characteristics of the lymphocystis disease in gilthead seabream, Sparus aurata L. from the south–atlantic coast of Spain. González de Canales ML, et al. **Eur J Histochem** 1996;40(2):143–52
In vivo production of A–protein, lipopolysaccharide, iron–regulated outer membrane proteins and 70–kDa serine protease by Aeromonas salmonicida subsp. salmonicida. Ellis AE, et al. **FEMS Microbiol Lett** 1997 Apr 15; 149(2):157–63

MICROBIOLOGY

Kinetics of adhesion of selected fish–pathogenic Vibrio strains of skin mucus of gilt–head sea bream (Sparus aurata L.). Bordas MA, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3650–4
Vibrio damsela associated with diseased fish in Denmark. Pedersen K, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3711–5
Restriction fragment length polymorphism of the pMJ101–like plasmid and ribotyping in the fish pathogen Vibrio ordalii. Pedersen K, et al. **Epidemiol Infect** 1996 Oct;117(2):385–91
Electron microscopic characteristics of actinomycetic agents having aetiological association with human leprosy and epizootic ulcerative syndrome of fish. Chakrabarty A, et al. **Indian J Exp Biol** 1996 Aug;34(8):810–2
Influence of the capsular layer on the virulence of Pasteurella piscicida for fish. Magariños B, et al. **Microb Pathog** 1996 Oct;21(4):289–97
Growth of the fish pathogen Renibacterium salmoninarum on different media. Bandin I, et al. **Microbiologia** 1996 Sep; 12(3):439–42
Experimental transmission and pathogenicity of some zoosporic fungi to Tilapia fish. El–Sharouny HM, et al. **Mycopathologia** 1995 Nov;132(2):95–103
Immunostimulating effect of growth hormone: in–vivo administration of growth hormone in rainbow trout enhances resistance to Vibrio anguillarum infection. Sakai M, et al. **Vet Immunol Immunopathol** 1997 Jun; 57(1–2):147–52
Application of a modified disc diffusion technique to antimicrobial susceptibility testing of Vibrio anguillarum and Aeromonas salmonicida clinical isolates. Guérin–Faublée V, et al. **Vet Microbiol** 1996 Jul; 51(1–2):137–49
Pan–Asian spread of single fungal clone results in large scale fish kills. Lilley JH, et al. **Vet Rec** 1997 Jun 21; 140(25):653–4
[Recent knowledge on fish pathogenic bacteria Aeromonas salmonicida, Listonella anguillara and Cytophaga columnaris, and their virulence factors] Nomura S. **Nippon Saikingaku Zasshi** 1997 Apr;52(2):393–416 (193 ref.) **(Jpn)**

MORTALITY

Winter stress syndrome: an important consideration for

hazard assessment of aquatic pollutants. Lemly AD. **Ecotoxicol Environ Saf** 1996 Aug;34(3):223–7 (22 ref.)

A telephone survey of eel fishermen regarding external lesions and mortalities of American eels (Anguilla rostrata) from Lake Ontario and the St. Lawrence River basin, Canada. Dutil L, et al. **Prev Vet Med** 1997 Jul;31(1–2):33–49

PARASITOLOGY

A focus of opisthorchiidosis in Germany. Hering–Hagenbeck S, et al. **Appl Parasitol** 1996 Dec;37(4):260–5

Seasonal variation of Opisthorchis viverrini infection in cyprinoid fish in north-east Thailand: implications for parasite control and food safety. Sithithaworn P, et al. **Bull World Health Organ** 1997;75(2):125–31

The distribution of the metacercariae of Diplostomum phoxini in the brain of minnows, Phoxinus phoxinus. Barber I, et al. **Folia Parasitol (Praha)** 1997;44(1):19–25

Intense infections with a variant of Myxobolus procerus (Myxosporea) in muscle of trout-perch (Percopsis omiscomaycus) in Duluth Harbor, Lake Superior. Cone D, et al. **Folia Parasitol (Praha)** 1997;44(1):7–11

Transmission experiments to determine the relationship between Sphaerospora sp. from Atlantic salmon, Salmo salar, and Sphaerospora truttae: a revised species description for S. truttae. McGeorge J, et al. **Folia Parasitol (Praha)** 1996;43(2):107–16

Some nematodes of freshwater fishes in Venezuela. Moravec F, et al. **Folia Parasitol (Praha)** 1997;44(1):33–47

Parasites of the recently established round goby (Neogobium melanostomus) and tubenose goby (Proterorhinus marmoratus) (Cottidae) from the St. Clair River and Lake St. Clair, Michigan, USA. Pronin NM, et al. **Folia Parasitol (Praha)** 1997;44(1):1–6

Endoparasitic helminths of the European eel, Anguilla anguilla, from four disconnected meanders from the rivers Leie and Scheldt in western Flanders, Belgium. Schabuss M, et al. **Folia Parasitol (Praha)** 1997;44(1):12–8

Accumulation of Diplostomum spp. (Digenea: Diplostomatidae) metacercariae in the eyes of 0+ and 1+ roach (Rutilus rutilus). McKeown CA, et al. **Int J Parasitol** 1997 Apr;27(4):377–80

Taxonomy studies and diagnostic tests for myxosporean and microsporidian pathogens of salmonid fishes utilising ribosomal DNA sequence. Kent ML, et al. **J Eukaryot Microbiol** 1996 Sep–Oct;43(5):98S–99S

Freeze fixation–dehydration as a method of preparation of Gyrodactylus (Monogenea) for SEM. Veltkamp CJ, et al. **J Helminthol** 1996 Mar;70(1):85–9

Benedeniine capsalid monogeneans from Australian fishes: pathogenic species, site-specificity and camouflage. Whittington ID. **J Helminthol** 1996 Sep;70(3):177–84 (46 ref.)

Population dynamics of Gyrodactylus salaris (Monogenea) infecting Atlantic salmon, Salmo salar, parr in the river Batnfjordselva, Norway. Appleby C, et al. **J Parasitol** 1997 Feb;83(1):23–30

Echinobothrium raschii n. sp. (Cestoda: Diphyllidea) from Rhinoraja longi (Chondrichthyes, Rajoidei) in the Bering Sea. Campbell RA, et al. **J Parasitol** 1997 Feb;83(1):115–20

Diclybothrium atriatum n. sp. (Monogenea:Diclybothriidae) from North American acipenserid fishes with observations on Diclybothrium armatum and Diclybothrium hamulatum. Choudhury A, et al. **J Parasitol** 1996 Dec;82(6):965–76

Observations on the morphology, systematics, and biogeography of the genus Truttaedacnitis (Nematoda:Cucullanidae). Choudhury A, et al. **J Parasitol** 1996 Dec;82(6):977–87

Myxobolus mississippiensis n. sp. (Myxosporea) from gills of Lepomis macrochirus in Mississippi. Cone DK, et al. **J Parasitol** 1997 Feb;83(1):122–4

Cucullanus palmeri n. sp. (Nematoda: Cucullanidae) from the batfish Ogcocephalus nasutus in the Gulf of Mexico. Crites JL, et al. **J Parasitol** 1997 Feb;83(1):125–30

Random amplified polymorphic DNA (RAPD) analysis of three Norwegian Gyrodactylus salaris populations (Monogenea:Gyrodactylidae). Cunningham CO, et al. **J Parasitol** 1997 Apr;83(2):311–4

Clarification of the identity of copepods of the genus Chondracanthus parasitizing Merluccius hubbsi from Argentinean waters. Etchegoin JA, et al. **J Parasitol** 1997 Feb;83(1):155–8

Proteocephalus brooksi n. sp. (Cestoda:Proteocephalidae) in the neotropical freshwater fish Rhamdia guatemalensis (Siluriformes: Pimelodidae) from Lake Catemaco, Veracruz, Mexico. García-Prieto L, et al. **J Parasitol** 1996 Dec;82(6):992–7

Redescription of Myxobolus paralintoni (Myxosporea:Myxobolidae), with notes regarding new host and locality. Hayden KJ, et al. **J Parasitol** 1997 Apr; 83(2):283–6

Evolutionary constraints on population structure: the parasites of Fundulus zebrinus (Pisces:Cyprinodontidae) in the South Platte River of Nebraska. Janovy J Jr, et al. **J Parasitol** 1997 Aug;83(4):584–92

Campechetrema herrerai n. gen., n. sp. (Trematoda: Cryptogonimidae) from the intestine of Petenia splendida (Pisces: Cichlidae) from Campeche, Mexico. Lamothe-Argumedo R, et al. **J Parasitol** 1997 Feb; 83(1):137–9

Six species of Acanthobothrium (Eucestoda: Tetraphyllidea) in stingrays (Chondrichthyes: Rajiformes: Myliobatoidei) from Ecuador. Marguee F, et al. **J Parasitol** 1997 Jun; 83(3):475–84

Koronacantha pectinaria n. comb. (Acanthocephala: Illiosentidae) from Microlepidotus brevipinnis (Haemulidae) and redescription of Tegorhynchus brevis. Monks S, et al. **J Parasitol** 1997 Jun;83(3):485–94

Koronacantha mexicana n. gen., n. sp. (Acanthocephala: Illiosentidae) from marine fishes in Chamela Bay, Jalisco, Mexico. Monks S, et al. **J Parasitol** 1996 Oct;82(5):788–92

Parasites of the deepwater sculpin, Myoxocephalus thompsoni (Cottidae), from Lake Michigan and Lake Huron. Muzzall PM, et al. **J Parasitol** 1997 Feb;83(1):160–2

Analysis of Calliobothrium (Tetraphyllidea:Onchobothriidae) with descriptions of three new species and erection of a new genus. Nasin CS, et al. **J Parasitol** 1997 Aug; 83(4):714–33

Comparison of Leptorhynchoides thecatus (Acanthocephala) recruitment into green sunfish and largemouth bass populations. Olson PD, et al. **J Parasitol** 1996 Oct; 82(5):702–6

Proteolytic enzymes in the blood-feeding parasitic copepod, Phrixocephalus cincinnatus. Perkins PS, et al. **J Parasitol** 1997 Feb;83(1):6–12

Copulation and sexual congress of Leptorhynchoides thecatus (Acanthocephala). Richardson DJ, et al. **J Parasitol** 1997 Jun;83(3):542–3

Systematic resolution of Crossobothrium Linton, 1889, and taxonomic information on four species allocated to that genus. Ruhnke TR. **J Parasitol** 1996 Oct;82(5):793–800

Bothriocephalus pearsei n. sp. (Cestoda: Pseudophyllidea) from cenote fishes of the Yucatan Peninsula, Mexico. Scholz T, et al. **J Parasitol** 1996 Oct;82(5):801–5

Ascocotyle (A.) nunezae n. sp. (Digenea: Heterophyidae) from Yucatan, Mexico. Scholz T, et al. **J Parasitol** 1997 Feb;83(1):141–7

A new species of Loma (Microsporea) in shiner perch (Cymatogaster aggregata). Shaw RW, et al. **J Parasitol** 1997 Apr;83(2):296–301

Acid phosphatase in the pathogenic and nonpathogenic hemoflagellates, Cryptobia spp., of fishes. Zuo X, et al. **J Parasitol** 1996 Dec;82(6):893–9

The infection status of anisakid larvae in marine fish and cephalopods from the Bohai Sea, China and their taxonomical consideration. Ma HW, et al. **Korean J Parasitol** 1997 Mar;35(1):19–24

Cloning, sequencing and expression of a cDNA encoding an antigen from the Myxosporean parasite causing the proliferative kidney disease of salmonid fish. Saulnier D, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):153–61

Scientists close in on 'cell from hell' lurking in Chesapeake Bay [news] Macilwain C. **Nature** 1997 Sep 25; 389(6649):317–8

A giant merogonial stage (Apicomplexa, Coccidia) in the intestine of Blicca bjoerkna (L.) (Cyprinidae). Lukeš J. **Parasite** 1994 Dec;1(4):393–5

Electron-microscopy observations on an intracellular mastigophoran in the gills of crucian carp, Carassius carassius. Ball SJ, et al. **Parasitol Res** 1997;83(7):740–2

Frequency distributions of fish parasites in the perch Perca fluviatilis L. from Lake Constance. Balling TE, et al. **Parasitol Res** 1997;83(4):370–3

Experimental infection/transmission of sculpins (Myoxocephalus scorpius) and cod (Gadus morhua) by sealworm (Pseudoterranova decipiens) larvae. Jensen T. **Parasitol Res** 1997;83(4):380–2

Ceratomyxa sparusaurati (Protozoa:Myxosporea) infections in cultured gilthead sea bream Sparus aurata (Pisces:Teleostei) from Spain: aspects of the host-parasite relationship. Palenzuela O, et al. **Parasitol Res** 1997; 83(6):539–48

Lead and cadmium content of two cestodes, Monobothrium wageneri and Bothriocephalus scorpii, and their fish hosts. Sures B, et al. **Parasitol Res** 1997;83(6):618–23

Surface charge and surface carbohydrates of Cyptobia salmositica virulent and avirulent forms and of C. bullocki (Kinetoplastida: Cryptobiidae). Vommaro RC, et al. **Parasitol Res** 1997;83(7):698–705

Ectoparasites of the whitespotted rabbitfish, Siganus sutor (Valenciennes, 1835) off the Kenyan Coast: distribution within the host population and site selection on the gills. Geets A, et al. **Parasitology** 1997 Jul;115 (Pt 1):69–79

Changes in gas composition in the swimbladder of the European eel (Anguilla anguilla) infected with Anguillicola crassus (Nematoda). Würtz J, et al. **Parasitology** 1996 Feb; 112 (Pt 2):233–8

A study on the distribution of Bothriocephalus andresi (Cestoda, Pseudophyllidea) in Citharus linguatula. Cognetti Varriale AM, et al. **Parassitologia** 1996 Dec;38(3):517–9

Fishing for answers to whirling disease [news] Potera C. **Science** 1997 Oct 10;278(5336):225–6

[Biosystematic study of two populations of teleosts (Sardina pilchardus) and their copepod parasites (Peroderma cylindricum) from the Tunisian coast] Becheikh S, et al. **Parasite** 1994 Sep;1(3):279–82 (Eng. Abstr.) **(Fre)**

[New details of the life cycle of Myxobolus cerebralis according to the literature] Prost M. **Wiad Parazytol** 1996; 42(3):283–90 (8 ref.) (Eng. Abstr.) **(Pol)**

PATHOLOGY

An unusual location for Ergasilus sieboldi Nordmann (Copepoda, Ergasilidae) on the operculum and base of pectoral fins of the pikeperch (Stizostedion lucioperca L.). Molnár K, et al. **Acta Vet Hung** 1997;45(2):165–75

Remarks on the morphology, site of infection and validity of some coccidian species from fish. Molnár K. **Acta Vet Hung** 1996;44(3):295–307

Histopathological changes induced by environmental stress in common carp, Japanese coloured carp, European eel, and African catfish. Szakolczai J. **Acta Vet Hung** 1997; 45(1):1–10

Ulcerative dermatitis associated with Uronema sp infection of farmed sand whiting Sillago ciliata. Gill PA, et al. **Aust Vet J** 1997 May;75(5):357

Comparative oncology. Harshbarger JC. **Jpn J Cancer Res** 1996 Nov;87(11):inside front cover

A telephone survey of eel fishermen regarding external lesions and mortalities of American eels (Anguilla rostrata) from Lake Ontario and the St. Lawrence River basin, Canada. Dutil L, et al. **Prev Vet Med** 1997 Jul;31(1–2):33–49

A processing plant survey of external lesions of American eels (Anguilla rostrata) from Lake Ontario and the St. Lawrence River, Canada. Dutil LT, et al. **Prev Vet Med** 1997 Jul;31(1–2):19–32

Differences in patterns of meningoencephalitis due to bacterial kidney disease in farmed Atlantic and chinook salmon. Speare DJ. **Res Vet Sci** 1997 Jan–Feb;62(1):79–80

PHYSIOPATHOLOGY

Capture and confinement stress in white sucker exposed to bleached kraft pulp mill effluent. Jardine JJ, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):287–98

The stress response in fish. Wendelaar Bonga SE. **Physiol Rev** 1997 Jul;77(3):591–625 (285 ref.)

PREVENTION & CONTROL

Salmon import bans to remain [news] **Aust Vet J** 1997 Feb; 75(2):88

Immunization with bacterial antigens: infections with streptococci and related organisms. Bercovier H, et al. **Dev Biol Stand** 1997;90:153–60 (25 ref.)

Immunization with bacterial antigens: Flavobacterium and Flexibacter infections. Bernardet JF. **Dev Biol Stand** 1997; 90:179–88 (46 ref.)

Polyvalent vaccines in fish: the interactive effects of multiple antigens. Busch RA. **Dev Biol Stand** 1997;90:245–56 (25 ref.)

Immunization with viral antigens: infectious pancreatic necrosis. Christie KE. **Dev Biol Stand** 1997;90:191–9 (54 ref.)

Immunization with viral antigens: viral diseases of carp and catfish. Dixon P. **Dev Biol Stand** 1997;90:221–32 (31 ref.)

Immunization with bacterial antigens: furunculosis. Ellis AE. **Dev Biol Stand** 1997;90:107–16 (60 ref.)

Immunization with bacterial antigens: bacterial kidney disease. Kaattari SL, et al. **Dev Biol Stand** 1997;90:145–52 (40 ref.)

Immunization with bacterial antigens: infections with motile aeromonads. Karunasagar I, et al. **Dev Biol Stand** 1997; 90:135–41

Immunization with viral antigens: viral haemorrhagic septicaemia. Lorenzen N, et al. **Dev Biol Stand** 1997; 90:201–9 (37 ref.)

Immunization with bacterial antigens: pasteurellosis. Romalde JL, et al. **Dev Biol Stand** 1997;90:167–77 (42 ref.)

Canadian regulatory requirements for recombinant fish vaccines. Sethi MS, et al. **Dev Biol Stand** 1997;90:347–53

Immunization with bacterial antigens: piscirickettsiosis. Smith PA, et al. **Dev Biol Stand** 1997;90:161–6 (12 ref.)

Immunization with bacterial antigens: yersiniosis. Stevenson RM. **Dev Biol Stand** 1997;90:117–24 (41 ref.)

Immunization with bacterial antigens: edwardsiellosis. Thune RL, et al. **Dev Biol Stand** 1997;90:125–34 (46 ref.)

Immunization with bacterial antigens: Vibrio infections. Toranzo AE, et al. **Dev Biol Stand** 1997;90:93–105 (40 ref.)

Immunization with viral antigens: infectious haematopoietic necrosis. Winton JR. **Dev Biol Stand** 1997;90:211–20 (35 ref.)

Immunization against parasitic diseases of fish. Woo PT. **Dev Biol Stand** 1997;90:233–41 (62 ref.)

Passive immunization of channel catfish (Ictalurus punctatus) against the ciliated protozoan parasite Ichthyophthirius multifiliis by use of murine monoclonal antibodies. Lin TL, et al. **Infect Immun** 1996 Oct;64(10):4085–90

Review of disease control in aquaculture in the Republic of South Africa. Brückner GK. **Rev Sci Tech** 1996 Jun; 15(2):703–10 (9 ref.)

Chilean legislation for the control of diseases of aquatic species. Campos Larraín MC, et al. **Rev Sci Tech** 1996 Jun; 15(2):675–86 (16 ref.)

Finfish health protection regulations in Canada. Carey TG. **Rev Sci Tech** 1996 Jun;15(2):647–58 (6 ref.)

Animal health and the trade in aquatic animals within and to the European Union. Daelman W. **Rev Sci Tech** 1996 Jun;15(2):711–22 (6 ref.)

Quarantine of aquatic animals in Australia. Doyle KA, et al. **Rev Sci Tech** 1996 Jun;15(2):659–73 (25 ref.)

National legislation in Great Britain for the control of fish diseases. Hill BJ. **Rev Sci Tech** 1996 Jun;15(2):633–45 (20 ref.)

Synopsis of freshwater aquaculture legislation in Germany since national reunification. Schlotfeldt HJ. **Rev Sci Tech** 1996 Jun;15(2):687–701 (8 ref.)

Development and efficacy of a vaccine against Streptococcus iniae infection in farmed rainbow trout. Eldar A, et al.

FISH DISEASES

Vet Immunol Immunopathol 1997 May;56(1–2):175–83
Furunculosis control using a paraimmunization stimulant (Baypamun) in rainbow trout. Ortega C, et al. **Vet Res** 1996;27(6):561–8

RADIOGRAPHY

Pet fish radiography: technique and case history reports. Love NE, et al. **Vet Radiol Ultrasound** 1997 Jan–Feb; 38(1):24–9

TRANSMISSION

The rickettsia: an emerging group of pathogens in fish. Fryer JL, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):137–44 (34 ref.)
Invasive infections due to a fish pathogen, Streptococcus iniae. S. iniae Study Group. Weinstein MR, et al. **N Engl J Med** 1997 Aug 28;337(9):589–94
Movement of pathogens with the international trade of live fish: problems and solutions. Hedrick RP. **Rev Sci Tech** 1996 Jun;15(2):523–31 (29 ref.)
Importation of aquaculture seedlings to Japan. Wakabayashi H. **Rev Sci Tech** 1996 Jun;15(2):409–22 (17 ref.)

VIROLOGY

Genomic classification of fish nodaviruses by molecular phylogenetic analysis of the coat protein gene. Nishizawa T, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1633–6
Damselfish with neurofibromatosis exhibit cytotoxicity towards retrovirus infected cells. McKinney EC, et al. **Dev Comp Immunol** 1997 May–Jun;21(3):287–98
Cell culture isolation of piscine neuropathy nodavirus from juvenile sea bass, Dicentrarchus labrax. Frerichs GN, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2067–71
Comparison of the coat protein genes of five fish nodaviruses, the causative agents of viral nervous necrosis in marine fish. Nishizawa T, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1563–9
Fish nodavirus lytic cycle and semipermissive expression in mammalian and fish cell cultures. Delsert C, et al. **J Virol** 1997 Jul;71(7):5673–7
Fast neutralization/immunoperoxidase assay for viral haemorrhagic septicaemia with anti-nucleoprotein monoclonal antibody. Lorenzo G, et al. **J Virol Methods** 1996 Apr 26;58(1–2):1–6
Polymerase chain reaction amplification of the thymidine kinase and protein kinase-related genes of channel catfish virus and a putative pilchard herpesvirus. Tham KM, et al. **J Virol Methods** 1996 Sep;61(1–2):65–72
Single-tube heminested PCR coupled with 'touchdown' PCR for the analysis of the walleye dermal sarcoma virus env gene. Zhang Z, et al. **J Virol Methods** 1996 Jun;60(1):29–37
Major viral diseases affecting fish aquaculture in Spain. Pérez SI, et al. **Microbiologia** 1997 Jun;13(2):149–60 (43 ref.)
[Iridovirus infection in fish] Nakajima K. **Uirusu** 1996 Jun; 46(1):61–6 (26 ref.) **(Jpn)**
[Salmonid herpesvirus] Yoshimizu M. **Uirusu** 1996 Jun; 46(1):53–9 (46 ref.) **(Jpn)**
[Fish viruses] Yoshimizu M. **Uirusu** 1996 Jun;46(1):49–52 (10 ref.) **(Jpn)**

FISH LIVER OILS see **FISH OILS**

FISH OILS

Lipid structure of rat adipocyte plasma membranes following dietary lard and fish oil. Parrish CC, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):253–62
Fish consumption, fish oil, lipids, and coronary heart disease. Stone NJ. **Circulation** 1996 Nov 1;94(9):2337–40 (41 ref.)
Daily supplementation with MaxEPA suppresses endotoxin-inducible monocytic procoagulation in dogs. Chu AJ, et al. **J Surg Res** 1997 Jul 15;71(1):93–9
Blood pressure and atherogenic lipoprotein profiles of fish-diet and vegetarian villagers in Tanzania: the Lugalawa study [see comments] Pauletto P, et al. **Lancet** 1996 Sep 21;348(9030):784–8. Comment in: Lancet 1996 Nov 23;348(9039):1460.
Intestinal lymph absorption of butter, corn oil, cod liver oil, menhaden oil, and eicosapentaenoic and docosahexaenoic acid ethyl esters in rats. Degrace P, et al. **Lipids** 1996 Apr; 31(4):405–14
Marine oils: the health benefits of n-3 fatty acids. Uauy-Dagach R, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S102–8 (66 ref.)
[Biological activity of fish oil] Cukier C, et al. **Arq Gastroenterol** 1996 Jul–Sep;33(3):173–8 (36 ref.) (Eng. Abstr.) **(Por)**
[Technological innovation applicable to marine oils rich in n-3 fatty acids to allow their nutritional and pharmacological use: a challenge for the present decade] Valenzuela A, et al. **Arch Latinoam Nutr** 1994 Dec; 44(4):223–31 (45 ref.) (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

Effect of garlic and fish-oil supplementation on serum lipid and lipoprotein concentrations in hypercholesterolemic men [see comments] Adler AJ, et al. **Am J Clin Nutr** 1997 Feb;65(2):445–50. Comment in: Am J Clin Nutr 1997 Feb;65(2):561–2.
Efficacy of multiple dietary therapies in reducing cardiovascular disease risk factors [editorial; comment] Kris-Etherton PM, et al. **Am J Clin Nutr** 1997 Feb; 65(2):560–1. Comment on: Am J Clin Nutr 1997 Feb;65(2):445–50.
Fibrinolytic function after dietary supplementation with omega3 polyunsaturated fatty acids. Toft I, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):814–9
Effect of dietary fish oil supplementation on peroxidation of serum lipids in patients with non-insulin dependent diabetes mellitus. McGrath LT, et al. **Atherosclerosis** 1996 Apr 5;121(2):275–83
Dietary fat and colon cancer: modulating effect of types and amount of dietary fat on ras-p21 function during promotion and progression stages of colon cancer. Singh J, et al. **Cancer Res** 1997 Jan 15;57(2):253–8
Levels of PCDDs, PCDFs and non-ortho PCBs in dietary supplement fish oil obtained in Spain. Jimenez B, et al. **Chemosphere** 1996 Feb;32(3):461–7
Liver fatty acid composition and peroxisomal fatty acid oxidase activity in blue foxes (Alopex lagopus) and mink (Mustela vison) fed diets containing different levels of fish oil. Ahlstrøm O, et al. **Comp Biochem Physiol A Physiol** 1997 May;117(1):135–40
Fish diet, fish oil and docosahexaenoic acid rich oil lower fasting and postprandial plasma lipid levels. Agren JJ, et al. **Eur J Clin Nutr** 1996 Nov;50(11):765–71
Postprandial triacylglycerolaemia: the effect of low-fat dietary treatment with and without fish oil supplementation. Roche HM, et al. **Eur J Clin Nutr** 1996 Sep;50(9):617–24
Dietary modulation of omega-3/omega-6 polyunsaturated fatty acid ratios in patients with breast cancer. Bagga D, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1123–31
An enteral formula containing fish oil, indigestible oligosaccharides, gum arabic and antioxidants affects plasma and colonic phospholipid fatty acid and prostaglandin profiles in pigs. Campbell JM, et al. **J Nutr** 1997 Jan;127(1):137–45
A comparative study of high-fat diet containing fish oil or lard on blood glucose in genetically diabetic (db/db) mice. Miura T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr; 43(2):225–31
Fish oil-supplemented feeding does not attenuate warm liver ischemia and reperfusion injury in the rat. Lo CJ, et al. **J Surg Res** 1997 Jul 15;71(1):54–60
Blood lipid docosahexaenoic and arachidonic acid in term gestation infants fed formulas with high docosahexaenoic acid, low eicosapentaenoic acid fish oil. Innis SM, et al. **Lipids** 1996 Jun;31(6):617–25
Formation and persistence of DNA adducts of 2-amino-3-methylimidazo[4,5-f]quinoline (IQ) in CDF1 mice fed a high omega-3 fatty acid diet. Schut HA, et al. **Mutat Res** 1997 Aug 1;378(1–2):23–30
Immunostimulation following fish oil-based parenteral nutrition in tumor-bearing rats. Chance WT, et al. **Nutr Cancer** 1996;26(3):303–12
The effects of n-3 and n-6 polyunsaturated fatty acids on plasma lipids and fatty acids of treated phenylketonuric children. Agostoni C, et al. **Prostaglandins Leukot Essent Fatty Acids** 1995 Dec; 53(6):401–4
Whole blood production of thromboxane, prostacyclin and leukotriene B4 after dietary fish oil supplementation in man: effect of vitamin E. Engström K, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jun; 54(6):419–25
Distribution of plasma phosphatidylcholine molecular species in rabbits fed fish oil is modulated by dietary n-6 fatty acids. Koba K, et al. **Prostaglandins Leukot Essent Fatty Acids** 1995 Dec; 53(6):445–9
Effects of ruminal or postruminal fish oil supplementation on intake and digestion in dairy cows. Doreau M, et al. **Reprod Nutr Dev** 1997;37(1):113–24
Modulation by fish oil diet of eicosanoid-induced anion secretion in the rat distal colon. Hug F, et al. **Z Ernahrungswiss** 1996 Dec;35(4):323–31
[Fish oil as prevention and treatment for hypertension—to be recommended and to whom?] Yosefi C, et al. **Harefuah** 1996 Nov 1;131(9):340–3 (41 ref.) **(Heb)**
[Possibilities for taking advantage of fish oil in obstetrics] Jóźwiak Z, et al. **Wiad Lek** 1994 Nov–Dec;47(21–24):865–7 **(Pol)**
[Effect of fish liver oil on the rat testis] Chertok VM, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):340–3 **(Rus)**
[The effects of eiconol in elderly patients with non-insulin-dependent diabetes mellitus] Malichenko SB, et al. **Ter Arkh** 1996;68(10):15–8 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Dietary fish oil reduces survival and impairs bacterial clearance in C3H/Hen mice challenged with Listeria monocytogenes. Fritsche KL, et al. **Clin Sci (Colch)** 1997 Jan;92(1):95–101

ANALYSIS

Purification and characterization of deep sea shark Centrophorus squamosus liver oil 1-O-alkylglycerol ether lipids. Bordier CG, et al. **Lipids** 1996 May;31(5):521–8

CHEMISTRY

Levels of PCDDs, PCDFs and non-ortho PCBs in dietary supplement fish oil obtained in Spain. Jimenez B, et al. **Chemosphere** 1996 Feb;32(3):461–7
Fish lipids: more than n-3 fatty acids? Opstvedt J. **Med Hypotheses** 1997 Jun;48(6):481–3

METABOLISM

Effects of iron supplementation and ET-18-OCH3 on MDA-MB 231 breast carcinomas in nude mice consuming a fish oil diet. Hardman WE, et al. **Br J Cancer** 1997; 76(3):347–54
Triglyceride hydrolysis of soy oil vs fish oil emulsions. Oliveira FL, et al. **JPEN J Parenter Enteral Nutr** 1997 Jul–Aug;21(4):224–9
Digestion of the 1-O-alkyl diacylglycerol ethers of Atlantic dogfish liver oils by Atlantic salmon Salmo salar. Kang SJ, et al. **Lipids** 1997 Jan;32(1):19–30

PHARMACOLOGY

Does vegetable oil attenuate the beneficial effects of fish oil in reducing risk factors for cardiovascular disease? [see comments] Hwang DH, et al. **Am J Clin Nutr** 1997 Jul; 66(1):89–96. Comment in: Am J Clin Nutr 1997 Jul;66(1):188–9.
Dietary fish oil prevents reperfusion Ins(1,4,5)P3 release in rat heart: possible antiarrhythmic mechanism. Anderson KE, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1483–90
Effects of fish oil on metabolic responses to oral fructose and glucose loads in healthy humans. Delarue J, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E353–62
Effect of moderate levels of dietary fish oil on insulin secretion and sensitivity, and pancreas insulin content in normal rats. Chicco A, et al. **Ann Nutr Metab** 1996; 40(2):61–70
Effects of docosahexaenoic acid and sardine oil diets on the ultrastructure of jejunal absorptive cells in adult mice. Tamura M, et al. **Ann Nutr Metab** 1996;40(5):263–8
Interactions between dietary fat, fish, and fish oils and their effects on platelet function in men at risk of cardiovascular disease. Mori TA, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):279–86
Fish oil fatty acids and human platelets: dose-dependent decrease in dienoic and increase in trienoic thromboxane generation. Krämer HJ, et al. **Biochem Pharmacol** 1996 Oct 25;52(8):1211–7
Dietary fish oil diminishes the antigen presentation activity of rat dendritic cells. Sanderson P, et al. **Biochem Soc Trans** 1997 May;25(2):351S
Interrelationships between salt and fish oil in stroke-prone spontaneously hypertensive rat. Vaskonen T, et al. **Blood Press** 1996 May;5(3):178–89
Dietary fat and colon cancer: modulation of cyclooxygenase-2 by types and amount of dietary fat during the postinitiation stage of colon carcinogenesis. Singh J, et al. **Cancer Res** 1997 Aug 15;57(16):3465–70
Dietary fish oil blocks carcinogen-induced down-regulation of colonic protein kinase C isozymes. Jiang YH, et al. **Carcinogenesis** 1997 Feb;18(2):351–7
Effect of dietary supplementation with fish oil on cyclosporine A-induced vascular toxicity. Berkenboom G, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):379–85
Both dietary fish-oil supplementation and aspirin fail to inhibit atherosclerosis in long-term vein bypass grafts in moderately hypercholesterolemic nonhuman primates. Boerboom LE, et al. **Circulation** 1997 Aug 5;96(3):968–74
Dietary fish oil and fish and borage oil suppress intrapulmonary proinflammatory eicosanoid biosynthesis and attenuate pulmonary neutrophil accumulation in endotoxic rats. Mancuso P, et al. **Crit Care Med** 1997 Jul; 25(7):1198–206
Dietary fish oil and blood lipids. Harris WS. **Curr Opin Lipidol** 1996 Feb;7(1):3–7 (12 ref.)
Alteration of Na,K-ATPase isoenzymes in diabetic cardiomyopathy: effect of dietary supplementation with fish oil (n-3 fatty acids) in rats. Gerbi A, et al. **Diabetologia** 1997 May;40(5):496–505
Effects of partially hydrogenated fish oil, partially hydrogenated soybean oil and butter on the susceptibility of low density lipoprotein to oxidative modification in men. Halvorsen B, et al. **Eur J Clin Nutr** 1996 Jun;50(6):364–70
Administration of fish oil by gavage increases the activities of hexokinase, glucose-6-phosphate dehydrogenase, and citrate synthase in rat lymphoid organs. Miyasaka CK, et al. **Gen Pharmacol** 1996 Sep;27(6):991–4
Vitamin E-deficient diets enriched with fish oil suppress lethal Plasmodium yoelii infections in athymic and scid/bg mice. Taylor DW, et al. **Infect Immun** 1997 Jan; 65(1):197–202
Alteration of cardiovascular function in trained rats fed with fish oil. Lortet S, et al. **Int J Sports Med** 1995 Nov; 16(8):519–21
Effect of dietary fish oil on plasma lipoprotein cholesterol in rats fed a diet enriched in cholesterol and sucrose. Chiang MT, et al. **Int J Vitam Nutr Res** 1997;67(3):196–200
Exercise performance, red blood cell deformability, and lipid peroxidation: effects of fish oil and vitamin E. Oostenbrug GS, et al. **J Appl Physiol** 1997 Sep;83(3):746–52
Fish oil and vitamin E supplementation in oxidative stress at rest and after physical exercise. Sen CK, et al. **J Appl Physiol** 1997 Jul;83(1):189–95

Influence of supplementary fish oil and rumen-protected methionine on milk yield and composition in dairy cows. Chilliard Y, et al. **J Dairy Res** 1997 May;64(2):173-9

Overexpression of mdr2 gene by peroxisome proliferators in the mouse liver. Miranda S, et al. **J Hepatol** 1997 Jun; 26(6):1331-9

Dietary fish oil enhances circulating interferon-gamma in mice during listeriosis without altering in vitro production of this cytokine. Fritsche KL, et al. **J Interferon Cytokine Res** 1997 May;17(5):271-7

Exocrine pancreatic secretions in growing pigs fed diets containing fish oil, rapeseed oil or coconut oil. Gabert VM, et al. **J Nutr** 1996 Sep;126(9):2076-82

Docosahexaenoic acid-rich fish oil does not affect serum lipid concentrations of normolipidemic young adults. Hamazaki T, et al. **J Nutr** 1996 Nov;126(11):2784-9

Normal subjects consuming physiological levels of 18:3(n-3) and 20:5(n-3) from flaxseed or fish oils have characteristic differences in plasma lipid and lipoprotein fatty acid levels. Layne KS, et al. **J Nutr** 1996 Sep;126(9):2130-40

Fish oil source differentially affects rat immune cell alpha-tocopherol concentration. McGuire SO, et al. **J Nutr** 1997 Jul;127(7):1388-94

Fish oil dietary supplementation for prevention of indomethacin induced gastric and small bowel toxicity in healthy volunteers. Kremer JM, et al. **J Rheumatol** 1996 Oct;23(10):1770-3

Comparative hypocholesterolemic effects of capybara (Hydrochoerus hydrochaeris dabbenei) oil, horse oil, and sardine oil in cholesterol-fed rats. Fukushima M, et al. **Lipids** 1997 Apr;32(4):391-5

Vitamin E inhibits fish oil-induced hyperlipidemia and tissue lipid peroxidation in hamsters. Kubow S, et al. **Lipids** 1996 Aug;31(8):839-47

Modification of odd-chain length unsaturated fatty acids by hepatocytes of rainbow trout (Oncorhynchus mykiss) fed diets containing fish oil or olive oil. Rodríguez C, et al. **Lipids** 1997 Jun;32(6):611-9

The influence of a fish oil-enriched diet on the phospholipid fatty acid turnover in the rabbit red cell membrane in vivo. van den Boom MA, et al. **Lipids** 1996 Mar;31(3):285-93

Magnesium taurate and fish oil for prevention of migraine. McCarty MF. **Med Hypotheses** 1996 Dec;47(6):461-6 (94 ref.)

Fish oil may be an antidote for the cardiovascular risk of smoking. McCarty MF. **Med Hypotheses** 1996 Apr; 46(4):337-47 (166 ref.)

The effect of parenteral fish oil on leukocyte membrane fatty acid composition and leukotriene-synthesizing capacity in patients with postoperative trauma. Morlion BJ, et al. **Metabolism** 1996 Oct;45(10):1208-13

Effects of fish oil on fecal bacterial enzymes and steroid excretion in healthy volunteers: implications for colon cancer prevention. Bartram HP, et al. **Nutr Cancer** 1996; 25(1):71-8

Dietary fish oil modulation of macrophage tumoricidal activity. Erickson KL, et al. **Nutrition** 1996 Jan;12(1 Suppl):S34-8

Dietary fish oil decreases superoxide generation by human neutrophils: relation to cyclooxygenase pathway and lysosomal enzyme release. Luostarinen R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):167-72

Effects of dietary gamma-linolenic acid-rich borage oil combined with marine fish oils on tissue phospholipid fatty acid composition and production of prostaglandins E and F of the 1-, 2- and 3-series in a marine fish deficient in delta5 fatty acyl desaturase. Tocher DR, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Aug; 57(2):125-34

Small effects of linseed oil or fish oil supplementation on postprandial changes in hemostatic factors. Freese R, et al. **Thromb Res** 1997 Jan 15;85(2):147-52

[Use of the fish oil "Polyen" in pediatric practice] Ladodo KS, et al. **Vopr Pitan** 1996;(2):22-5 (Eng. Abstr.) **(Rus)**

STANDARDS

Fish consumption, fish oil, lipids, and coronary heart disease. Stone NJ. **Am J Clin Nutr** 1997 Apr;65(4):1083-6 (41 ref.)

THERAPEUTIC USE

Separate and joint effects of marine oil and simvastatin in patients with combined hyperlipidemia. Davidson MH, et al. **Am J Cardiol** 1997 Sep 15;80(6):797-8

Do the n-3 fatty acids from fish prevent deaths from cardiovascular disease? [editorial; comment] Connor WE. **Am J Clin Nutr** 1997 Jul;66(1):188-9. Comment on: Am J Clin Nutr 1997 Jul;66(1):89-96.

Fish oil therapy in IgA nephropathy. Fung SM, et al. **Ann Pharmacother** 1997 Jan;31(1):112-5 (17 ref.)

Dietary fish oil. Influence on lesion regression in the porcine model of atherosclerosis. Barbeau ML, et al. **Arterioscler Thromb Vasc Biol** 1997 Apr;17(4):688-94

Effect of fish oil on indometacin-induced gastric lesions in rats. Güzel C, et al. **Arzneimittelforschung** 1995 Nov; 45(11):1172-3

Protective effect of fish oil against stress-induced gastric injury in rats. Ulak G, et al. **Arzneimittelforschung** 1995 Nov;45(11):1174-5

Fish oils and low-molecular-weight heparin for the reduction of restenosis after percutaneous transluminal coronary angioplasty. The EMPAR Study. Cairns JA, et al. **Circulation** 1996 Oct 1;94(7):1553-60

Dietary fish oil prevents the development of renal damage in salt-loaded stroke-prone spontaneously hypertensive rats. Hobbs LM, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):508-13

Immunoglobulin A nephropathy: fish oils and beyond. Feehally J. **Curr Opin Nephrol Hypertens** 1996 Sep; 5(5):442-6 (27 ref.)

Long-term effects of fish oil on insulin resistance and plasma lipoproteins in NIDDM patients with hypertriglyceridemia. Rivellese AA, et al. **Diabetes Care** 1996 Nov;19(11):1207-13

Fish oil in diabetic nephropathy. Rossing P, et al. **Diabetes Care** 1996 Nov;19(11):1214-9

Increasing fish oil intake--any net benefits? **Drug Ther Bull** 1996 Aug;34(8):60-2 (38 ref.)

Fish oil supplementation versus gemfibrozil treatment in hyperlipidemic NIDDM. A randomized crossover study. Fasching P, et al. **Horm Metab Res** 1996 May;28(5):230-6

The triglyceride lowering effect of fish oils is affected by fish consumption. Silva JM, et al. **Int J Cardiol** 1996 Nov 15;57(1):75-80

Fatty acid oxidation in the heart. Grynberg A, et al. **J Cardiovasc Pharmacol** 1996;28 Suppl 1:S11-7 (21 ref.)

Fish oil and other nutritional adjuvants for treatment of congestive heart failure. McCarty MF. **Med Hypotheses** 1996 Apr;46(4):400-6 (120 ref.)

Enteric-coated fish oil in Crohn's disease [letter; comment] Guthy E. **N Engl J Med** 1996 Oct 31;335(18):1397-8. Comment on: N Engl J Med 1996 Jun 13;334(24):1557-60.

Intervention of transplantable human mammary carcinoma MX-1 chemotherapy with dietary menhaden oil in athymic mice: increased therapeutic effects and decreased toxicity of cyclophosphamide. Shao Y, et al. **Nutr Cancer** 1997; 28(1):63-73

Can fish oil maintain Crohn's disease in remission? Kim YI. **Nutr Rev** 1996 Aug;54(8):248-52

Fish oil as a therapy for lung disease [editorial; comment] Archer SL. **Nutrition** 1996 May;12(5):372-4. Comment on: Nutrition 1996 May;12(5):334-9.

The effect of polyunsaturated fatty acids on the progress of cachexia in patients with pancreatic cancer. Wigmore SJ, et al. **Nutrition** 1996 Jan;12(1 Suppl):S27-30

Advances in treatment: immunoglobulin A nephropathy. Hogg RJ, et al. **Semin Nephrol** 1996 Nov;16(6):511-6 (31 ref.)

Fish oil-feeding prevents perfluorooctanoic acid-induced fatty liver in mice. Kudo N, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):285-93

[The effect of dietary fish oil supplementation on the clinical course of asthma in children] Machura E, et al. **Pediatr Pol** 1996 Feb;71(2):97-102 (Eng. Abstr.) **(Pol)**

[Effect of treating glomerulonephritis with omega 3 fatty acids for selected parameters of hemostasis, blood platelet function and lipid metabolism] Małyszko JS, et al. **Przegl Lek** 1996;53(8):600-3 (Eng. Abstr.) **(Pol)**

[Experience in the use of eiconol (a complex of unsaturated fatty acids) in non-insulin-dependent diabetes mellitus] Lazebnik LB, et al. **Klin Med (Mosk)** 1996;74(3):29-33 (Eng. Abstr.) **(Rus)**

[The effect of polyunsaturated fatty acids of the omega-3 class on the late phase of the allergic reaction in bronchial asthma patients] Masuev KA. **Ter Arkh** 1997;69(3):31-3 (Eng. Abstr.) **(Rus)**

[The effect of polyunsaturated fatty acids on the biochemical indices of bronchial asthma patients] Masuev KA. **Ter Arkh** 1997;69(3):33-5 (Eng. Abstr.) **(Rus)**

[Comparative evaluation of hypolipidemic effects of omega-3 polyunsaturated acids and lipostabil] Pogozheva AV, et al. **Vopr Pitan** 1996;(4):31-3 (Eng. Abstr.) **(Rus)**

TOXICITY

Impaired cellular immune response in rats exposed perinatally to Baltic Sea herring oil or 2,3,7,8-TCDD. Ross PS, et al. **Arch Toxicol** 1997;71(9):563-74

FISH PRODUCTS

Ingestion of herring leads to absorption of pristane in humans [letter] Sjögren B, et al. **Occup Environ Med** 1997 Jan; 54(1):66

[Production of biological silage from fish scraps] Bello R, et al. **Arch Latinoam Nutr** 1994 Dec;44(4):264-269B (Eng. Abstr.) **(Spa)**

[Evaluation of biological fish silage in broiler chicken] Bello RA, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):134-9 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Surimi: something fishy. Musmand JJ, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):697-9

Scombroid fish poisoning: a potentially life-threatening allergic-like reaction. Sánchez-Guerrero IM, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):433-4

ANALYSIS

Fish meal lecithin as alternative precursor of docosahexaenoate and choline. Dahlan W, et al. **Biomed Environ Sci** 1996 Sep;9(2-3):263-8

Antihypertensive effect of thermolysin digest of dried bonito in spontaneously hypertensive rat. Fujita H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S304-5

Determination of heterocyclic amines in flame-grilled fish patty by capillary electrophoresis. Wu J, et al. **Food Addit Contam** 1996 Oct;13(7):851-61

Fatty acid composition of commercially manufactured omega-3 enriched pork products, haddock, and mackerel. Specht-Overholt S, et al. **J Anim Sci** 1997 Sep; 75(9):2335-43

Determination of sulfonamides in edible salmon tissue by liquid chromatography with postcolumn derivatization and fluorescence detection. Gehring TA, et al. **J AOAC Int** 1997 Jul-Aug;80(4):751-5

Determination of ethoxyquin in feeds by liquid chromatography: collaborative study. Schreier CJ, et al. **J AOAC Int** 1997 Jul-Aug;80(4):725-31

IgE-binding proteins in fish and fish steam. Pascual CY, et al. **Monogr Allergy** 1996;32:174-80

Determination of gizzerosine activity in fish meal with a homologous radioimmunoassay. Rosselot G, et al. **Poult Sci** 1996 Jul;75(7):873-80

Current and potential doses from Arctic seafood consumption. Sazykina TG, et al. **Sci Total Environ** 1997 Aug 25;202(1-3):57-65

Impaired immunity in harbour seals [Phoca vitulina] fed environmentally contaminated herring. de Swart RL, et al. **Vet Q** 1996;18 Suppl 3:S127-8 (12 ref.)

[Evaluation of the quality of food products and rations] Vasiukova AT, et al. **Vopr Pitan** 1997;(1):31-5 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Sample preparation and DNA extraction procedures for polymerase chain reaction identification of Listeria monocytogenes in seafoods. Agersborg A, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):275-80

Distribution and behavior of Listeria monocytogenes in three lots of naturally-contaminated vacuum-packed smoked salmon stored at 2 and 10 degrees C. Cortesi ML, et al. **Int J Food Microbiol** 1997 Jul 22;37(2-3):209-14

Microbiological spoilage of fish and fish products. Gram L, et al. **Int J Food Microbiol** 1996 Nov;33(1):121-37 (69 ref.)

Risk factors for contamination of smoked salmon with Listeria monocytogenes during processing. Rørvik LM, et al. **Int J Food Microbiol** 1997 Jul 22;37(2-3):215-9

Extremely halotolerant bacteria characteristic of fully cured and dried cod. Vilhelmsson O, et al. **Int J Food Microbiol** 1997 May 20;36(2-3):163-70

Molecular detection of Clostridium botulinum type E neurotoxin gene in smoked fish by polymerase chain reaction and capillary electrophoresis. Sciacchitano CJ, et al. **J AOAC Int** 1996 Jul-Aug;79(4):861-5

Classification of photobacteria associated with spoilage of fish products by numerical taxonomy and pyrolysis mass spectrometry. Dalgaard P, et al. **Zentralbl Bakteriol** 1997 Jan;285(2):157-68

POISONING

Scombrotoxic fish poisoning and imported tuna steaks. **Commun Dis Rep CDR Wkly** 1997 Jan 10;7(2):9, 12

Behavioral effects of prenatal and adult exposure to toxic chemicals found in Lake Ontario fish: two methodological approaches. Daly H, et al. **Toxicol Ind Health** 1996 May-Aug;12(3-4):419-26

Fish consumption advisories and outreach programs for Southeast Asian immigrants. Shubat PJ, et al. **Toxicol Ind Health** 1996 May-Aug;12(3-4):427-34

STANDARDS

Fish consumption, fish oil, lipids, and coronary heart disease. Stone NJ. **Am J Clin Nutr** 1997 Apr;65(4):1083-6 (41 ref.)

Salmon import bans to remain [news] **Aust Vet J** 1997 Feb; 75(2):88

Effects of fish meal in beef cattle diets on growth performance, carcass characteristics, and fatty acid composition of longissimus muscle. Mandell IB, et al. **J Anim Sci** 1997 Apr;75(4):910-9

[Growth and carcass quality of carp (Cyprinus carpio L.) fed different cereals, lupin seed or zooplankton] Oberle M, et al. **Arch Tierernahr** 1997;50(1):75-86 (Eng. Abstr.) **(Ger)**

FISH VENOMS

ADVERSE EFFECTS

Stingray injury. Evans RJ, et al. **J Accid Emerg Med** 1996 May;13(3):224-5

Ichthyosarcotoxism: poisoning by edible fish. Grant IC. **J Accid Emerg Med** 1997 Jul;14(4):246-51 (56 ref.)

BIOSYNTHESIS

Stonustoxin is a novel lethal factor from stonefish (Synanceja horrida) venom. cDNA cloning and characterization. Ghadessy FJ, et al. **J Biol Chem** 1996 Oct 11; 271(41):25575-81

CHEMISTRY

Indian catfish (Plotosus canius, Hamilton) venom. Occurrence of lethal protein toxin (toxin-PC). Auddy B, et al. **Adv Exp Med Biol** 1996;391:225-9

FISH VENOMS

Reversible surface aggregation in pore formation by pardaxin. Rapaport D, et al. **Biophys J** 1996 Jun;70(6):2502–12

Solution conformations of peptides representing the sequence of the toxin pardaxin and analogues in trifluoroethanol–water mixtures: analysis of CD spectra. Thennarasu S, et al. **Biopolymers** 1997 May;41(6):635–45

Stonustoxin is a novel lethal factor from stonefish (Synanceja horrida) venom. cDNA cloning and characterization. Ghadessy FJ, et al. **J Biol Chem** 1996 Oct 11; 271(41):25575–81

Presence of norepinephrine and other biogenic amines in stonefish venom. Garnier P, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):364–9

Occurrence of paralytic shellfish poison in Bangladeshi freshwater puffers. Zaman L, et al. **Toxicon** 1997 Mar; 35(3):423–31

GENETICS

Complete amino–acid sequence of the beta–subunit of VTX from venom of the stonefish (Synanceia verrucosa) as identified from cDNA cloning experiments. Garnier P, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):1–5

ISOLATION & PURIFICATION

Detection of diarrhoetic shellfish toxins in mussels from Italy by ionspray liquid chromatography–mass spectrometry. Draisci R, et al. **Toxicon** 1995 Dec;33(12):1591–603

METABOLISM

A new saxitoxin analogue from a xanthid crab Atergatis floridus. Arakawa O, et al. **Toxicon** 1995 Dec; 33(12):1577–84

Occurrence of tetrodotoxin and paralytic shellfish poison in the Taiwanese crab Lophozozymus pictor. Tsai YH, et al. **Toxicon** 1995 Dec;33(12):1669–73

PHARMACOLOGY

Haemolytic activity of stonustoxin from stonefish (Synanceja horrida) venom: pore formation and the role of cationic amino acid residues. Chen D, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):685–91

Specific antimicrobial and hemolytic activities of 18–residue peptides derived from the amino terminal region of the toxin pardaxin. Thennarasu S, et al. **Protein Eng** 1996 Dec; 9(12):1219–24

An in vitro pharmacological examination of venom from the soldierfish Gymnapistes marmoratus. Hopkins BJ, et al. **Toxicon** 1997 Jul;35(7):1101–11

POISONING

Scombroid poisoning revisited [letter; comment] Clark RB. **Ann Emerg Med** 1997 Mar;29(3):426–7. Comment on: Ann Emerg Med 1996 Aug;28(2):235–8.

Scombroid poisoning revisited [letter; comment] Downs M. **Ann Emerg Med** 1997 Mar;29(3):426; discussion 427. Comment on: Ann Emerg Med 1996 Aug;28(2):235–8.

Stonefish sting: an occupational hazard in Hong Kong. Chan TY, et al. **Ann Trop Med Parasitol** 1996 Dec;90(6):675–6

SECRETION

Occurrence of toxins, other than paralysing type, in the skin of Tetraodontiformes fish. Malpezzi EL, et al. **Toxicon** 1997 Jan;35(1):57–65

TOXICITY

Biochemical studies on the effect of Plotosus lineatus crude venom (in vivo) and its effect on EAC–cells (in vitro). Fahim FA, et al. **Adv Exp Med Biol** 1996;391:343–55

Selective depletion of clear synaptic vesicles and enhanced quantal transmitter release at frog motor nerve endings produced by trachynilysin, a protein toxin isolated from stonefish (Synanceia trachynis) venom. Colasante C, et al. **Eur J Neurosci** 1996 Oct;8(10):2149–56

Cardiotoxicity of verrucotoxin, a protein isolated from the venom of Synanceia verrucosa. Garnier P, et al. **Toxicon** 1997 Jan;35(1):47–55

Evidence for adrenergic and tachykinin activity in venom of the stonefish (Synanceja trachynis). Hopkins BJ, et al. **Toxicon** 1996 May;34(5):541–54

Toxicity of sea nettle (Chrysaora quinquecirrha) fishing tentacle nematocyst venom in cultured rat hepatocytes. Houck HE, et al. **Toxicon** 1996 Jul;34(7):771–8

Production and characterization of monoclonal antibodies against stonustoxin from Synanceja horrida. Yuen R, et al. **Toxicon** 1995 Dec;33(12):1557–64

FISHERIES

Investigation of factors affecting mass psychogenic illness in employees in a fish–packing plant. House RA, et al. **Am J Ind Med** 1997 Jul;32(1):90–6

Demonstration of tank effect on growth indices of juvenile rainbow trout (Oncorhynchus mykiss) during an ad libitum feeding trial. Speare DJ, et al. **Am J Vet Res** 1995 Oct; 56(10):1372–9

Dioxin–like compounds in fishing people from the Lower North Shore of the St. Lawrence River, Quebec, Canada. Ryan JJ, et al. **Arch Environ Health** 1997 Jul–Aug; 52(4):309–16

Lipid and fatty acid contents in red tides from tropical fish ponds of the coastal water of South China Sea. Shamsudin L. **Arch Physiol Biochem** 1996;104(1):36–42

Organochlorine pesticide residues in rainbow trout, Oncorhynchus mykiss, taken from four fish farms in León, Spain. Sahagún AM, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):779–86

Protozoal dermatitis of farmed Atlantic salmon in British Columbia. Brocklebank JR. **Can Vet J** 1997 Jun;38(6):386–7

Papillomatosis of a farmed black cod in British Columbia. Brocklebank JR. **Can Vet J** 1996 Sep;37(9):556

The Great Lakes Fisheries Specimen Bank: a Canadian perspective in environmental specimen banking. Kiriluk RM, et al. **Chemosphere** 1997 May;34(9–10):1921–32

Finnish salmon resistant to Gyrodactylus salaris: a long–term study at fish farms. Rintamäki–Kinnunen P, et al. **Int J Parasitol** 1996 Jul;26(7):723–32

Surveillance of drug prescribing for farmed fish in Norway: possible applications of computerized prescription information. Bangen M, et al. **J Vet Pharmacol Ther** 1996 Feb;19(1):78–81

Blood and nerves revisited: menopause and the privatization of the body in a Newfoundland postindustrial fishery. Davis DL. **Med Anthropol Q** 1997 Mar;11(1):3–20; discussion 21–5 (44 ref.)

Health hazards while fishing in heavy weather [letter] Jensen OC. **Occup Environ Med** 1997 Feb;54(2):141

Work related injuries in Danish fishermen. Jensen OC. **Occup Med (Oxf)** 1996 Dec;46(6):414–20

The writing on the wall: an allegory of fish management. Murphy JE. **Pharmacotherapy** 1996 Jul–Aug;16(4):721–2

Differences in patterns of meningoencephalitis due to bacterial kidney disease in farmed Atlantic and chinook salmon. Speare DJ. **Res Vet Sci** 1997 Jan–Feb;62(1):79–80

Severe penetrating eye trauma caused by fish pick accidents. Ciulla TA, et al. **Retina** 1996;16(3):219–21

Historical aspects of international movement of living aquatic species. Bartley DM, et al. **Rev Sci Tech** 1996 Jun; 15(2):387–400 (25 ref.)

Characteristics of current international trade of live salmonid eggs. Jansen M, et al. **Rev Sci Tech** 1996 Jun;15(2):423–33 (20 ref.)

Incidence and relative risk for hepatitis A, hepatitis B and tuberculosis and occurrence of malaria among merchant seamen. Hansen HL, et al. **Scand J Infect Dis** 1996; 28(2):107–10

Ammonia gassing deaths––a report on two cases. Chao TC, et al. **Singapore Med J** 1996 Apr;37(2):147–9 (11 ref.)

Development and efficacy of a vaccine against Streptococcus iniae infection in farmed rainbow trout. Eldar A, et al. **Vet Immunol Immunopathol** 1997 May;56(1–2):175–83

[Occupational respiratory tract allergy in trout processing workers] Tougård AB, et al. **Ugeskr Laeger** 1997 Sep 22; 159(39):5800–4 (Eng. Abstr.) **(Dan)**

[A population survey on bone mineral density in a fishing village in Wakayama Prefecture (Part 2); The analysis of the risk factors affecting the bone mineral density] Yoshimura N, et al. **Nippon Eiseigaku Zasshi** 1996 Oct; 51(3):677–84 (Eng. Abstr.) **(Jpn)**

[A descriptive analysis of cognitive activities involved in locating fishing points: In the case of fishermen of Toyoshima Island, Hiroshima Prefecture] Sawada H. **Shinrigaku Kenkyu** 1995 Oct;66(4):288–95 (Eng. Abstr.) **(Jpn)**

[Sociomedical aspects of injuries of the sailors of the fish fleet] Shapovalov KA. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):17–25 (Eng. Abstr.) **(Rus)**

[Bacteremia caused by Erysipelothrix rhusiopathiae in an HIV–positive patient (letter)] Marne C, et al. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):403–4 **(Spa)**

LEGISLATION & JURISPRUDENCE

Chilean legislation for the control of diseases of aquatic species. Campos Larraín MC, et al. **Rev Sci Tech** 1996 Jun; 15(2):675–86 (16 ref.)

Finfish health protection regulations in Canada. Carey TG. **Rev Sci Tech** 1996 Jun;15(2):647–58 (6 ref.)

National legislation in Great Britain for the control of fish diseases. Hill BJ. **Rev Sci Tech** 1996 Jun;15(2):633–45 (20 ref.)

Synopsis of freshwater aquaculture legislation in Germany since national reunification. Schlotfeldt HJ. **Rev Sci Tech** 1996 Jun;15(2):687–701 (8 ref.)

FISHES

Marine n–3 fatty acid and calcium intake in relation to pregnancy induced hypertension, intrauterine growth retardation, and preterm delivery. A case–control study. Kesmodel U, et al. **Acta Obstet Gynecol Scand** 1997 Jan; 76(1):38–44

Food selection behaviour of potential biological agents to control intermediate host snails of schistosomiasis: Sargochromis codringtoni and Tilapia rendalli. Chimbari MJ, et al. **Acta Trop** 1996 May;61(3):191–9

Biologically active lipids from S. scombrus. Rementzis J, et al. **Adv Exp Med Biol** 1996;416:65–72

Allergic reactions following skin contact with fish. Domínguez C, et al. **Allergy Asthma Proc** 1996 Mar–Apr; 17(2):83–7

Very–long–chain n–3 fatty acids as biomarkers for intake of fish and n–3 fatty acid concentrates [see comments] Andersen LF, et al. **Am J Clin Nutr** 1996 Sep;64(3):305–11 . Comment in: Am J Clin Nutr 1996 Sep;64(3):379–80.

Lionfish envenomation [letter] [see comments] Garyfallou GT, et al. **Ann Emerg Med** 1996 Oct;28(4):456–7. Comment in: Ann Emerg Med 1997 May;29(5):692–3.

An intercomparison of gamma–spectrometry on two samples of biological origin by eight laboratories in four countries. Twining JR. **Appl Radiat Isot** 1996 Aug;47(8):801–10

Evaluation of bleached kraft mill process water using Microtox(R), Ceriodaphnia dubia, and Menidia beryllina toxicity tests. Middaugh DP, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):367–75

Experimental factors that may affect toxicity of cadmium to freshwater organisms. Suedel BC, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):188–93

Fish consumption by Vietnamese women immigrants: a comparison of methods. Cavan KR, et al. **Arch Environ Health** 1996 Nov–Dec;51(6):452–7

Interactions between dietary fat, fish, and fish oils and their effects on platelet function in men at risk of cardiovascular disease. Mori TA, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):279–86

An unusual foreign body: a whole fish in the throat. Vele DD, et al. **Auris Nasus Larynx** 1997 Apr;24(2):207–9

Structure of chymotrypsin variant B from Atlantic cod, Gadus morhua. Leth–Larsen R, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):49–56

Managing a fish induced injury [letter] Henman PD, et al. **BMJ** 1997 Apr 19;314(7088):1199–200

Increased risk of thyroid cancer among Norwegian women married to fishery workers—a retrospective cohort study. Frich L, et al. **Br J Cancer** 1997;76(3):385–9

Fish tank granuloma in a 4–year–old boy [letter] Bleiker TO, et al. **Br J Dermatol** 1996 Nov;135(5):863–4

The dietary effect of oily fish consumption on psoriasis [letter; comment] Collier PM, et al. **Br J Dermatol** 1996 Nov; 135(5):858. Comment on: Br J Dermatol 1996 Jan;134(1):101–6.

Plasma steroid and corticosteroid levels in female pacu Piaractus mesopotamicus, Teleostei–Characidae. Gazola R, et al. **Braz J Med Biol Res** 1996 May;29(5):659–64

Papillomatosis of a farmed black cod in British Columbia. Brocklebank JR. **Can Vet J** 1996 Sep;37(9):556

Urinary excretion of 3–methyladenine after consumption of fish containing high levels of dimethylamine. Fay LB, et al. **Carcinogenesis** 1997 May;18(5):1039–44

Distribution of neuropeptide Y–like immunoreactivity in the brain of the bichir, Polypterus senegalus, with special regard to the terminal nerve. Chiba A. **Cell Tissue Res** 1997 Aug;289(2):275–84

Gastric carcinogenesis: 2–chloro–4–methylthiobutanoic acid, a novel mutagen in salted, pickled Sanma hiraki fish, or similarly treated methionine. Chen W, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):58–66

Fish consumption, fish oil, lipids, and coronary heart disease. Stone NJ. **Circulation** 1996 Nov 1;94(9):2337–40 (41 ref.)

Characterization of Cu,Zn superoxide dismutase from the bathophile fish, Lampanyctus crocodilus. Capo C, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jul; 117(3).403–7

Induction of micronuclei in fish by polluted water and heavy metals. Poongothai K, et al. **Cytobios** 1996;86(344):17–22

Fish Vaccinology. Oslo, Norway, June 5–7, 1996. Symposium proceedings and abstracts. **Dev Biol Stand** 1997; 90:1–484

Regulation of veterinary biological products for fish in the United States. Birnbaum NG. **Dev Biol Stand** 1997; 90:335–40

Reduction of antibacterial drug use in Norwegian fish farming due to vaccination. Markestad A, et al. **Dev Biol Stand** 1997;90:365–9

Vaccinated fish welfare: protection versus side–effects. Midtlyng PJ. **Dev Biol Stand** 1997;90:371–9 (28 ref.)

The ontogeny of antipredator behavior in paradise fish larvae (Macropodus opercularis) IV. The effect of exposure to siblings. Miklósi A, et al. **Dev Psychobiol** 1997 May; 30(4):283–91

Biological monitoring for mercury within a community with soil and fish contamination. Harnly M, et al. **Environ Health Perspect** 1997 Apr;105(4):424–9

Sentinel school [news] Manuel J. **Environ Health Perspect** 1996 Sep;104(9):934–6

Diet and rheumatoid arthritis in women: a possible protective effect of fish consumption. Shapiro JA, et al. **Epidemiology** 1996 May;7(3):256–63

Effect of extreme fish consumption on dietary and plasma antioxidant levels and fatty acid composition. Anttolainen M, et al. **Eur J Clin Nutr** 1996 Nov;50(11):741–6

Lipid, protein, and calorie content of different Atlantic and Mediterranean fish, shellfish, and molluscs commonly eaten in the south of Spain. Soriguer F, et al. **Eur J Epidemiol** 1997 Jun;13(4):451–63

Prenatal care and sea fish. Odent MR, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1–2):49–51

Amino acid sequence of a new type of antifreeze protein, from the longhorn sculpin Myoxocephalus octodecimspinosis. Deng G, et al. **FEBS Lett** 1997 Jan 27; 402(1):17–20

Contents of lead and cadmium in selected fish species consumed in Finland in 1993–1994. Tahvonen R, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):647–54

Direct mutagenicity of the polycylic aromatic hydrocarbon-containing fraction of smoked and charcoal-broiled foods treated with nitrite in acid solution. Kangsadalampai K, et al. **Food Chem Toxicol** 1997 Feb; 35(2):213–8

Polar and non-polar heterocyclic amines in cooked fish and meat products and their corresponding pan residues. Skog K, et al. **Food Chem Toxicol** 1997 Jun;35(6):555–65

Comparative biological activities of alpha-MSH antagonists in vertebrate pigment cells. Castrucci AM, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):410–6

The hypothalamo-hypophyseal system in Acipenseridae. XI. Morphological and immunohistochemical analysis of nonapeptidergic and corticoliberin-immunoreactive elements in hypophysectomized sterlet (Acipenser ruthenus L.). Polenov AL, et al. **Gen Comp Endocrinol** 1997 Mar; 105(3):314–22

Response to Suchanek et al. [letter; comment] Rosenblum S, et al. **Health Phys** 1997 Jun;72(6):936–8. Comment on: Health Phys 1996 Aug;71(2):167–78.

The triglyceride lowering effect of fish oils is affected by fish consumption. Silva JM, et al. **Int J Cardiol** 1996 Nov 15;57(1):75–80

Alcohol, fish, fibre and antioxidant vitamins intake do not explain population differences in coronary heart disease mortality. Kromhout D, et al. **Int J Epidemiol** 1996 Aug; 25(4):753–9

Influence of dietary fish on fatty acid composition of the erythrocyte membrane in coronary heart disease patients. Santos MJ, et al. **Int J Vitam Nutr Res** 1996;66(4):378–85

Bioacoustic behavior of African fishes (Mormyridae): potential cues for species and individual recognition in Pollimyrus. Crawford JD, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1200–12

Effects of low-frequency underwater sound on hair cells of the inner ear and lateral line of the teleost fish Astronotus ocellatus. Hastings MC, et al. **J Acoust Soc Am** 1996 Mar; 99(3):1759–66

Acute effects of Permanone 31-66 (permethrin-piperonyl butoxide) on nontarget minnows and grass shrimp. Tietze NS, et al. **J Am Mosq Control Assoc** 1995 Dec;11(4):476–9

A simple and rapid solvent extraction method for determining total lipids in fish tissue. Lee CM, et al. **J AOAC Int** 1996 Mar-Apr;79(2):487–92

Analysis of toxic wastes in tissues from aquatic species. Applications of matrix solid-phase dispersion. Crouch MD, et al. **J Chromatogr A** 1997 Jul 11;774(1-2):287–309 (175 ref.)

High-performance liquid chromatographic determination of biogenic amines in fish implicated in food poisoning. Hwang DF, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):23–9

High-performance liquid chromatographic analysis of ascorbyl-2-phosphate in fish tissues. Sakai T, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):196–8

Pavlovian conditioning of agonistic behavior in male threespine stickleback (Gasterosteus aculeatus). Jenkins JR, et al. **J Comp Psychol** 1996 Dec;110(4):396–401

A blend of animal and cereal protein or fish meal as partial replacement for soybean meal in the diets of lactating Holstein cows. Polan CE, et al. **J Dairy Sci** 1997 Jan; 80(1):160–6

Assessment of the contamination of surface water and fish from Côte d'Ivoire. Wandan EN, et al. **J Environ Sci Health B** 1996 Mar;31(2):225–40

Cancer mortality in Minamata disease patients exposed to methylmercury through fish diet. Kinjo Y, et al. **J Epidemiol** 1996 Sep;6(3):134–8

Antinociceptive activity of Channa striatus (haruan) extracts in mice. Mat Jais AM, et al. **J Ethnopharmacol** 1997 Jul; 57(2):125–30

Effects of commonly used cooking practices on total mercury concentration in fish and their impact on exposure assessments. Morgan JN, et al. **J Expo Anal Environ Epidemiol** 1997 Jan-Mar;7(1):119–33

Estimation of fish consumption and methylmercury intake in the New Jersey population. Stern AH, et al. **J Expo Anal Environ Epidemiol** 1996 Oct-Dec;6(4):503–25

Marine animal exposures in Florida. Hillman JV. **J Fla Med Assoc** 1996 Mar;83(3):187–91

Vitamin K deficiency in cats fed commercial fish-based diets. Strieker MJ, et al. **J Small Anim Pract** 1996 Jul;37(7):322–6

Concentrations of blood and hair mercury and serum PCBs in an Ojibwa population that consumes Great Lakes region fish. Gerstenberger SL, et al. **J Toxicol Clin Toxicol** 1997; 35(4):377–86

Safety of milbemycin as an oral or bath treatment for the tropical freshwater angelfish Pterophyllum scalare. Killino TJ, et al. **J Zoo Wildl Med** 1997 Mar;28(1):94–6

Vibrio infection in Israel due to changes in fish marketing [letter] Bisharat N, et al. **Lancet** 1996 Dec 7; 348(9041):1585–6

Blood pressure and cholesterol in fish-eaters versus vegetarians [letter; comment] Lavine JB. **Lancet** 1996 Nov 23;348(9039):1460. Comment on: Lancet 1996 Sep 21;348(9030):784–8.

Blood pressure and atherogenic lipoprotein profiles of fish-diet and vegetarian villagers in Tanzania: the Lugalawa study [see comments] Pauletto P, et al. **Lancet** 1996 Sep 21;348(9030):784–8. Comment in: Lancet 1996 Nov 23;348(9039):1460.

The effect of short-term diets rich in fish, red meat, or white meat on thromboxane and prostacyclin synthesis in humans. Mann N, et al. **Lipids** 1997 Jun;32(6):635–44

Great Lakes fish health issues [letter] Soderstrom RM. **Mich Med** 1997 Apr;96(4):4

Erratum to "The first contiguous estrogen receptor gene from a fish, Oreochromis aureus: evidence for multiple transcripts" [Mol. Cell. Endocrinol. 120 (1996) 186–188]. Tan NS, et al. **Mol Cell Endocrinol** 1996 Oct 14; 123(1):107–10

Antimutagenicity of Tochu tea (an aqueous extract of Eucommia ulmoides leaves): 2. Suppressing effect of Tochu tea on the urine mutagenicity after ingestion of raw fish and cooked beef. Sasaki YF, et al. **Mutat Res** 1996 Dec 20;371(3-4):203–14

Fish consumption and the risk of myocardial infarction [letter; comment] Albert CM, et al. **N Engl J Med** 1997 Aug 14;337(7):497–8; discussion 498–9. Comment on: N Engl J Med 1997 Apr 10;336(15):1046–53.

Fish consumption and the risk of myocardial infarction [letter; comment] Bhopal R. **N Engl J Med** 1997 Aug 14; 337(7):498–9. Comment on: N Engl J Med 1997 Apr 10;336(15):1046–53.

Fish consumption and the 30-year risk of fatal myocardial infarction [see comments] Daviglus ML, et al. **N Engl J Med** 1997 Apr 10;336(15):1046–53. Comment in: N Engl J Med 1997 Aug 14;337(7):497–8; discussion 498–9. Comment in: N Engl J Med 1997 Aug 14;337(7):498; discussion 498–9. Comment in: N Engl J Med 1997 Aug 14;337(7);498–9.

Fish consumption and the risk of myocardial infarction [letter; comment] Lichtenstein AH. **N Engl J Med** 1997 Aug 14;337(7):498; discussion 498–9. Comment on: N Engl J Med 1997 Apr 10;336(15):1046–53.

Risk assessment of mercury exposure through fish consumption by the riverside people in the Madeira Basin, Amazon, 1991. Boischio AA, et al. **Neurotoxicology** 1996 Spring;17(1):169–75

Do historic studies of fish consumers support the widely accepted LOEL for methylmercury in adults. Kosatsky T, et al. **Neurotoxicology** 1996 Spring;17(1):177–86 (30 ref.)

Assessment of potential health risks associated with ingesting heavy metals in fish collected from a hazardous-waste contaminated wetland in Louisiana, USA. Tchounwou PB, et al. **Rev Environ Health** 1996 Oct-Dec;11(4):191–203

Historical aspects of international movement of living aquatic species. Bartley DM, et al. **Rev Sci Tech** 1996 Jun; 15(2):387–400 (25 ref.)

Overview of the current international trade in ornamental fish, with special reference to Singapore. Cheong L. **Rev Sci Tech** 1996 Jun;15(2):445–81 (4 ref.)

Characteristics of the current international trade in ornamental fish, with special reference to the European Union. Davenport KE. **Rev Sci Tech** 1996 Jun;15(2):435–43 (6 ref.)

Importation of aquaculture seedlings to Japan. Wakabayashi H. **Rev Sci Tech** 1996 Jun;15(2):409–22 (17 ref.)

Fishing in a polluted estuary: fishing behavior, fish consumption, and potential risk. May H, et al. **Risk Anal** 1996 Aug;16(4):459–71

The spectrum of allergy to South African bony fish (Teleosti). Evaluation by double-blind, placebo-controlled challenge. Zinn C, et al. **S Afr Med J** 1997 Feb;87(2):146–52

Evaluation of critical body residue QSARs for predicting organic chemical toxicity to aquatic organisms. Barron MG, et al. **SAR QSAR Environ Res** 1997;6(1-2):47–62

Dietary intake of fish contaminated with persistent organochlorine compounds in relation to low birthweight. Rylander L, et al. **Scand J Work Environ Health** 1996 Aug; 22(4):260–6

Heavy metal contamination in freshwater fish from the border region between Norway and Russia. Amundsen PA, et al. **Sci Total Environ** 1997 Aug 18;201(3):211–24

Plutonium in fish, algae, and sediments in the Barents, Petshora and Kara Seas. Ikäheimonen TK, et al. **Sci Total Environ** 1997 Aug 25;202(1-3):79–87

Monitoring of fish and human exposure to mercury due to gold mining in the Lake Victoria goldfields, Tanzania. Ikingura JR, et al. **Sci Total Environ** 1996 Nov 18; 191(1-2):59–68

Ecological hazard assessment of dioxins: hazards to organisms at different levels of aquatic food webs (fish-eating birds and mammals, fish and invertebrates). Loonen H, et al. **Sci Total Environ** 1996 Apr 5; 182(1-3):93–103

Baseline studies in the Slave River, NWT, 1990-1994: Part II. Body burden contaminants in whole fish tissue and livers. McCarthy LH, et al. **Sci Total Environ** 1997 Apr 30;197(1-3):55–86

Temporal changes in concentration of radiocaesium in lake sediment and fish of southern Finland as related to environmental factors. Särkkä J, et al. **Sci Total Environ** 1996 Nov 18;191(1-2):125–36

Evaluation of shading of fish farming ponds as a larval control measure against Anopheles sundaicus Rodenwaldt (Diptera:Culicidae). Takagi M, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):748–53

Experimental chemical carcinogenesis in fish. Bunton TE. **Toxicol Pathol** 1996 Sep-Oct;24(5):603–18 (217 ref.)

Identification of Caribbean ciguatoxins as the cause of an outbreak of fish poisoning among U.S. soldiers in Haiti. Poli MA, et al. **Toxicon** 1997 May;35(5):733–41

Severe infections following fish bone and spine injuries. de Wind CM. **Trop Doct** 1996 Oct;26(4):168–9

Scombroid fish poisoning: an overlooked marine food poisoning. Wu ML, et al. **Vet Hum Toxicol** 1997 Aug; 39(4):236–41

Diseases of freshwater fish. Haenen OL. **Vet Q** 1996;18 Suppl 3:S132-3 (24 ref.)

Relationships between Müller cells and neurons in a primitive tetrapod, the Australian lungfish. Robinson SR. **Vis Neurosci** 1997 Jul-Aug;14(4):795–800

Ciguatera fish poisoning following travel to the tropics. Sanner BM, et al. **Z Gastroenterol** 1997 May;35(5):327–30

[Food hygiene aspects in the production of food fish in fishing] Hörmansdorfer S, et al. **Berl Munch Tierarztl Wochenschr** 1997 Mar;110(3):96–101 (Eng. Abstr.) **(Ger)**

[Pain in the breeding of fish] Kölle P, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb;104(2):74–5 (Eng. Abstr.) **(Ger)**

[Antifreeze glycoproteins in fishes: structure, mode of action and possible applications] Wöhrmann A. **Tierarztl Prax** 1996 Feb;24(1):1–9 (72 ref.) (Eng. Abstr.) **(Ger)**

[A case of swallowed fish bone-induced esophageal perforation and mediastinitis treated with pedicled omental graft] Masaki H, et al. **Kyobu Geka** 1996 May;49(5):376–9 (Eng. Abstr.) **(Jpn)**

[Dioxins and furans in edible species of fish from the Gulf of Gdańsk] Falandysz J, et al. **Rocz Panstw Zakl Hig** 1996; 47(2):197–204 (Eng. Abstr.) **(Pol)**

[Fatty acid composition and cholesterol content in naturally canned jurel, sardine, salmon, and tuna] Romero N, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):75–7 (Eng. Abstr.) **(Spa)**

[Fat, protein and caloric content of different fish, seafood and mollusks, Atlantic and Mediterranean habitually consumed in the south of Spain] Soriguer F, et al. **Nutr Hosp** 1996 Jul-Aug;11(4):245–57 (Eng. Abstr.) **(Spa)**

[The Mediterranean diet in Spain. Legend or reality? (II). Other elements in the Mediterranean diet: vegetables and fruits, fish. Evolution of the diet and cardiovascular diseases in Spain in the last decades] Alvarez-Sala Walther LA, et al. **Rev Clin Esp** 1996 Sep;196(9):636–46 (161 ref.) **(Spa)**

ANATOMY & HISTOLOGY

Morphometry of the kidneys of fresh water percoid and ostariophysian teleosts. Kamunde CN, et al. **Acta Biol Hung** 1997;48(1):29–41

The development of the dentigerous bones and teeth in the hemiramphid fish Dermogenys pusillus (Atheriniformes, Teleostei). Clemen G, et al. **Anat Anz** 1997 Apr; 179(2):165–74

Dentigerous bones and dentition in the hemiramphid fish Dermogenys pusillus (Atheriniformes, Teleostei). Greven H, et al. **Anat Anz** 1997 Feb;179(1):21–32

Immunohistochemical and Ultrastructural characterization of the terminal nerve ganglion cells of the ayu, Plecoglossus altivelis (Salmoniformes, Teleostei). Chiba A, et al. **Anat Rec** 1996 Dec;246(4):549–56

Immunocytochemical and ultrastructural characterization of prolactin, growth hormone, and somatolactin cells from the Mediterranean yellowtail (Seriola dumerilii, Risso 1810). García-Ayala A, et al. **Anat Rec** 1997 Mar; 247(3):395–404

The chloride cell: structure and function in the gills of freshwater fishes. Perry SF. **Annu Rev Physiol** 1997; 59:325–47 (99 ref.)

Evolution of gnathostome lateral line ontogenies. Northcutt RG. **Brain Behav Evol** 1997 Jul;50(1):25–37 (70 ref.)

The Agnathan ark: the origin of craniate brains. Northcutt RG. **Brain Behav Evol** 1996;48(5):237–47 (67 ref.)

The forebrain of the blind cave fish Astyanax hubbsi (Characidae). II. Projections of the olfactory bulb. Riedel G, et al. **Brain Behav Evol** 1997;49(1):39–52

The forebrain of the blind cave fish Astyanax hubbsi (Characidae). I. General anatomy of the telencephalon. Riedel G. **Brain Behav Evol** 1997;49(1):20–38

Morphology and distribution of pit organs and canal neuromasts in non-teleost bony fishes. Webb JF, et al. **Brain Behav Evol** 1997;50(3):139–51

Apoptosis in the cerebellum of adult teleost fish, Apteronotus leptorhynchus. Soutschek J, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):279–86

The fine structure of the cornea of the salamanderfish, Lepidogalaxias salamandroides (Lepidogalaxiidae, Teleostei). Collin HB, et al. **Cornea** 1996 Jul;15(4):414–26

VIP-like immunoreactivity in the intestinal tract of fish with different feeding habits. Andreozzi G, et al. **Eur J Histochem** 1997;41(1):57–64

Muscle length changes during swimming in scup: sonomicrometry verifies the anatomical high-speed cine technique. Coughlin DJ, et al. **J Exp Biol** 1996 Feb;199 (Pt 2):459–63

Paraneurons in the gills and airways of fishes. Zaccone G, et al. **Microsc Res Tech** 1997 Apr 1;37(1):4–12 (48 ref.)

Efficient fish not faint-hearted [news] Brainerd E. **Nature** 1997 Sep 18;389(6648):229–30

Direct projections from the spinal cord to the trigeminal sympathetic ganglion of the puffer fish, Takifugu niphobles. Funakoshi K, et al. **Neurosci Lett** 1996 Aug 2;213(2):115–8

An atypical diencephalic nucleus in actinopterygian fishes:

visual connections and sporadic phylogenetic distribution. Saidel WM, et al. **Neurosci Lett** 1997 Jun 20;229(1):13–6

Biplexiform ganglion cells, characterized by dendrites in both outer and inner plexiform layers, are regular, mosaic-forming elements of teleost fish retinae. Cook JE, et al. **Vis Neurosci** 1996 May–Jun;13(3):517–28

Rod outer segment renewal in the retinae of deep-sea fish. Fröhlich E, et al. **Vision Res** 1996 Oct;36(19):3183–94

Preference of peanut agglutinin labeling for long-wavelength-sensitive cone photoreceptors in the dace retina. Ishikawa M, et al. **Vision Res** 1997 Feb;37(4):383–7

[Density distribution of dopaminergic neurons in the retina of a marine teleost, Thamnoconus (Navodon) modestus] Negishi K, et al. **Nippon Ika Daigaku Zasshi** 1996 Oct; 63(5):343–8 (Eng. Abstr.) **(Jpn)**

[The structure and histotopography of the gastroenteropancreatic endocrine system in teleost fish] Shirkina NI. **Morfologiia** 1995;108(3):78–83 (66 ref.) **(Rus)**

BLOOD

Purification, structural characterization, and cardiovascular activity of cod bradykinins. Platzack B, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R710–7

Comparative studies on the effects of herbicide atrazine on freshwater fish Oreochromis niloticus and Chrysichthyes auratus at Assiut, Egypt. Hussein SY, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):503–10

The unique hemoglobin system of Pleuragramma antarcticum, an antarctic migratory teleost. Structure and function of the three components. Tamburrini M, et al. **J Biol Chem** 1996 Sep 27;271(39):23780–5

Pharmacokinetics of enrofloxacin in the red pacu (Colossoma brachypomum) after intramuscular, oral and bath administration. Lewbart G, et al. **J Vet Pharmacol Ther** 1997 Apr;20(2):124–8

[Crystallization of aqueous solutions of cryoprotectors from Atlantic cod and lake Gammarus] Andreev AA, et al. **Biofizika** 1996 Nov–Dec;41(6):1294–7 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Fish species identification by isoelectric focusing of parvalbumins in immobilized pH gradients. Esteve-Romero JS, et al. **Electrophoresis** 1996 Aug;17(8):1380–5

Identification of fish species using random amplified polymorphic DNA (RAPD). Partis L, et al. **Mol Cell Probes** 1996 Dec;10(6):435–41

Evolutionary analyses of hedgehog and Hoxd-10 genes in fish species closely related to the zebrafish. Zardoya R, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13036–41

Reconstructing labroid evolution with single-copy nuclear DNA. Streelman JT, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22;264(1384):1011–20

EMBRYOLOGY

Production of fish chimeras from embryonic cells. Váradi L, et al. **Acta Biol Hung** 1997;48(1):95–104

Toxicity of weathered coal tar for shortnose sturgeon (Acipenser brevirostrum) embryos and larvae. Kocan RM, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):161–5

Disruption of hemoglobin oxygen transport does not impact oxygen-dependent physiological processes in developing embryos of zebra fish (Danio rerio). Pelster B, et al. **Circ Res** 1996 Aug;79(2):358–62

Temperature and neural development of the Atlantic herring (Clupea harengus L.). Hill J, et al. **Comp Biochem Physiol A Physiol** 1997 Aug;117(4):457–62

New approaches for studying the permeability of fish embryos: toward successful cryopreservation. Hagedorn M, et al. **Cryobiology** 1997 Jun;34(4):335–47 (71 ref.)

Biosynthesis in vivo and excretion of cortisol by fish larvae. Sampath-Kumar R, et al. **J Exp Zool** 1997 Mar 1; 277(4):337–44

GENETICS

Production of fish chimeras from embryonic cells. Váradi L, et al. **Acta Biol Hung** 1997;48(1):95–104

Characterization of the aromatic hydrocarbon receptor gene and its expression in Atlantic tomcod. Roy NK, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):373–86

Antipredator behavior in paradise fish (Macropodus opercularis) larvae: the role of genetic factors and paternal influence. Miklósi A, et al. **Behav Genet** 1997 May; 27(3):191–200

Difference in hepatic metallothionein content in Antarctic red-blooded and haemoglobinless fish: undetectable metallothionein levels in haemoglobinless fish is accompanied by accumulation of untranslated metallothionein mRNA. Scudiero R, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):207–11

Complete amino-acid sequence of the beta-subunit of VTX from venom of the stonefish (Synanceia verrucosa) as identified from cDNA cloning experiments. Garnier P, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):1–5

Functional comparison of the metal-regulated transcriptional control regions of metallothionein genes from cadmium-sensitive and tolerant fish species. Olsson PE, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):325–34

A new method for detecting nucleolus organizer regions in fish chromosomes using denaturation and propidium iodide staining. Rab P, et al. **Biotech Histochem** 1996 May; 71(3):157–62

Immediate digestion of fish muscle following field collections yields DNA suitable for RAPD fingerprinting. Nelson JS, et al. **Biotechniques** 1997 Aug;23(2):224–6

Cytogenetics of the genus Leporinus (Pisces, Anostomidae). 1. Karyotype analysis, heterochromatin distribution and sex chromosomes. Koehler MR, et al. **Chromosome Res** 1997 Feb;5(1):12–22

Cytogenetics of the genus Leporinus (Pisces, Anostomidae). II. Molecular cytogenetics, organization and evolutionary conservation of a chromosome-specific satellite DNA from Leporinus obtusidens. Koehler MR, et al. **Chromosome Res** 1997 Aug;5(5):325–31

Isolation and characterization of two cDNAs from Atlantic cod encoding two distinct psychrophilic elastases. Gudmundsdóttir E, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr; 113(4):795–801

Sex-ratio distortion associated with the presence of a B chromosome in Astyanax scabripinnis (Teleostei, Characidae). Vicente VE, et al. **Cytogenet Cell Genet** 1996; 74(1-2):70–5

Immunogenetics of disease resistance in fish: a comparative approach. Wiegertjes GF, et al. **Dev Comp Immunol** 1996 Nov–Dec;20(6):365–81 (110 ref.)

Molecular cloning of fish alcohol dehydrogenase cDNA. Funkenstein B, et al. **Gene** 1996 Sep 26;174(1):159–64

Genomic structure and sequence of the pufferfish (Fugu rubripes) growth hormone-encoding gene: a comparative analysis of teleost growth hormone genes. Venkatesh B, et al. **Gene** 1997 Mar 18;187(2):211–5

Molecular cloning of 5-hydroxytryptamine (5-HT) type 1 receptor genes from the Japanese puffer fish, Fugu rubripes. Yamaguchi F, et al. **Gene** 1997 Jun 3;191(2):219–23

Length variation, heteroplasmy and sequence divergence in the mitochondrial DNA of four species of sturgeon (Acipenser). Brown JR, et al. **Genetics** 1996 Feb; 142(2):525–35

Characteristics and distribution of large tandem duplications in brook stickleback (Culaea inconstans) mitochondrial DNA. Gach MH, et al. **Genetics** 1997 Feb;145(2):383–94

A newly isolated family of short interspersed repetitive elements (SINEs) in coregonid fishes (whitefish) with sequences that are almost identical to those of the SmaI family of repeats: possible evidence for the horizontal transfer of SINEs. Hamada M, et al. **Genetics** 1997 May; 146(1):355–67

The complete mitochondrial DNA sequence of the bichir (Polypterus ornatipinnis), a basal ray-finned fish: ancient establishment of the consensus vertebrate gene order. Noack K, et al. **Genetics** 1996 Nov;144(3):1165–80

Structural and functional differences in the promoter and 5' flanking region of Ldh-B within and between populations of the teleost Fundulus heteroclitus. Schulte PM, et al. **Genetics** 1997 Mar;145(3):759–69

Stock structure and homing fidelity in Gulf of Mexico sturgeon (Acipenser oxyrinchus desotoi) based on restriction fragment length polymorphism and sequence analyses of mitochondrial DNA. Stabile J, et al. **Genetics** 1996 Oct;144(2):767–75

The complete DNA sequence of the mitochondrial genome of a "living fossil," the coelacanth (Latimeria chalumnae). Zardoya R, et al. **Genetics** 1997 Jul;146(3):995–1010

A minisatellite polymorphism in intron III of the barramundi (Lates calcarifer) growth hormone gene. Yowe DL, et al. **Genome** 1996 Oct;39(5):934–40

The tuberin (TSC2), autosomal dominant polycystic kidney disease (PKD1), and somatostatin type V receptor (SSTR5) genes form a synteny group in the Fugu genome. Sandford R, et al. **Genomics** 1996 Nov 15;38(1):84–6

Molecular cloning of two cannabinoid type 1-like receptor genes from the puffer fish Fugu rubripes. Yamaguchi F, et al. **Genomics** 1996 Aug 1;35(3):603–5

Quality not quantity: the pufferfish genome. Elgar G. **Hum Mol Genet** 1996;5 Spec No:1437–42 (40 ref.)

Short-range linkage relationships of the valyl-tRNA synthetase gene in Fugu rubripes. Lim EH, et al. **Immunogenetics** 1997;46(4):332–6

Ig light chain gene in the Siberian sturgeon (Acipenser baeri). Lundqvist M, et al. **J Immunol** 1996 Sep 1;157(5):2031–8

Patterns of nucleotide change in mitochondrial ribosomal RNA genes and the phylogeny of piranhas. Ortí G, et al. **J Mol Evol** 1996 Feb;42(2):169–82

Evolution of the mitochondrial DNA control region in the mbuna (Cichlidae) species flock of Lake Malawi, East Africa. Parker A, et al. **J Mol Evol** 1997 Jul;45(1):70–83

Sperm nuclear basic proteins (SNBPs) of agnathans and chondrichthyans: variability and evolution of sperm proteins in fish. Saperas N, et al. **J Mol Evol** 1997 Apr; 44(4):422–31

Comparative analysis of Pax-6 sequence and expression in the eye development of the blind cave fish Astyanax fasciatus and its epigean conspecific. Behrens M, et al. **Mol Biol Evol** 1997 Mar;14(3):299–308

Methylation status of Sillago japonica satellite DNA examined by bisulfite modification. Kato M. **Mol Biol Rep** 1996;23(2):123–7

Microsatellite analysis of maternity and the mating system in the Gulf pipefish Syngnathus scovelli, a species with male pregnancy and sex-role reversal. Jones AG, et al. **Mol Ecol** 1997 Mar;6(3):203–13

The complete mitochondrial DNA sequence of Atlantic cod (Gadus morhua): relevance to taxonomic studies among codfishes. Johansen S, et al. **Mol Mar Biol Biotechnol** 1996 Sep;5(3):203–14

Interdecadal heterogeneity in mitochondrial DNA of Atlantic haddock (Melanogrammus aeglefinus) from Georges Bank. Purcell MK, et al. **Mol Mar Biol Biotechnol** 1996 Sep;5(3):185–92

Conservation of the myoglobin gene among Antarctic notothenioid fishes. Vayda ME, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):207–16

A molecular and morphological perspective on the phylogenetic relationships of the otophysan fishes. Dimmick WW, et al. **Mol Phylogenet Evol** 1996 Aug; 6(1):120–33

An initial assessment of the genotoxic impact of the Sea Empress oil spill by the measurement of DNA adduct levels in the intertidal teleost Lipophrys pholis. Lyons BP, et al. **Mutat Res** 1997 May 23;390(3):263–8

How good a model is the Fugu genome? [letter; comment] Aparicio S, et al. **Nature** 1997 May 8;387(6629):140. Comment on: Nature 1997 Jan 23;385(6614):305–6.

How good a model is the Fugu genome? [letter; comment] Elgar G, et al. **Nature** 1997 May 8;387(6629):140. Comment on: Nature 1997 Jan 23;385(6614):305–6.

Fugu genome is not a good mammalian model [letter] [see comments] Gilley J, et al. **Nature** 1997 Jan 23; 385(6614):305–6. Comment in: Nature 1997 May 8;387(6629):140.

Structure of repetitive DNA element isolated from Osphariichthys uncirostris. Kato M, et al. **Nucleic Acids Symp Ser** 1995;(34):95–6

Characterization of CYP1A1 gene regulatory elements in cancer-prone Atlantic tomcod. Roy NK, et al. **Pharmacogenetics** 1996 Jun;6(3):273–7

Evolution of antifreeze glycoprotein gene from a trypsinogen gene in Antarctic notothenioid fish. Chen L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3811–6

Convergent evolution of antifreeze glycoproteins in Antarctic notothenioid fish and Arctic cod. Chen L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3817–22

Opioid receptors from a lower vertebrate (Catostomus commersoni): sequence, pharmacology, coupling to a G-protein-gated inward-rectifying potassium channel (GIRK1), and evolution. Darlison MG, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8214–9

Variable expression of myoglobin among the hemoglobinless Antarctic icefishes. Sidell BD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3420–4

Evolutionary analyses of hedgehog and Hoxd-10 genes in fish species closely related to the zebrafish. Zardoya R, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13036–41

Reconstructing labroid evolution with single-copy nuclear DNA. Streelman JT, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22;264(1384):1011–20

Evolutionary conservation of microsatellite flanking regions and their use in resolving the phylogeny of cichlid fishes (Pisces: Perciformes). Zardoya R, et al. **Proc R Soc Lond B Biol Sci** 1996 Nov 22;263(1376):1589–98

'Living fossil' fish is dethroned [news] Roush W. **Science** 1997 Sep 5;277(5331):1436

Small is beautiful: comparative genomics with the pufferfish (Fugu rubripes). Elgar G, et al. **Trends Genet** 1996 Apr; 12(4):145–50 (45 ref.)

[Strong differences of mitochondrial DNA between Mediterranean sea and Eastern Atlantic populations of Sardinella aurita] Chikhi L, et al. **C R Acad Sci III** 1997 Apr;320(4):289–97 (Eng. Abstr.) **(Fre)**

[Immune response of fishes with respect to phylogenetic aspects] Ahne W. **Tierarztl Prax** 1996 Feb;24(1):88–95 (27 ref.) (Eng. Abstr.) **(Ger)**

[Nucleotide sequence of a fragment of the Cottocomephorus grewingki phosphofructokinase gene] Tulokhonov II, et al. **Bioorg Khim** 1996 Aug;22(8):596–8 (Eng. Abstr.) **(Rus)**

[Genomic heterozygosity, sexual maturation rate, and life expectancy] Altukhov IuP. **Dokl Akad Nauk** 1996 Jun; 348(6):842–5 **(Rus)**

[Analysis of expression of foreign genetic material under the control of heterogeneous promoters in the process of early development of the loach (Misgurnus fossilis L.)] Mukha DV, et al. **Genetika** 1996 Oct;32(10):1387–91 (Eng. Abstr.) **(Rus)**

[Restriction mapping of a highly-repetitive DNA sequence in studying the genetic relationship of lower taxons of animal] Grechno VV, et al. **Mol Biol (Mosk)** 1997 Mar–Apr;31(2):244–52 **(Rus)**

[Evolution of a fragment of the mitochondrial DNA cytochrome B gene from some Baikalian and non-Baikalian species of Cottus fish] Kiril'chik SV, et al. **Mol Biol (Mosk)** 1997 Jan–Feb;31(1):168–75 **(Rus)**

[The structure of Alu-like DNA nucleotide sequences in cyclostomes and fishes] Anatskiĭ SIu, et al. **Tsitologiia** 1996; 38(12):1255–60 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Effects of the water-soluble fraction of partially combusted crude oil from Kuwait's oil fires (from Desert Storm) on survival and growth of the marine fish Menidia beryllina.

Al-Yakoob SN, et al. **Ecotoxicol Environ Saf** 1996 Nov; 35(2):142–9

Nonsequential developmental trajectories lead to dimorphic vocal circuitry for males with alternative reproductive tactics. Bass AH, et al. **J Neurobiol** 1996 Aug;30(4):493–504

Changes in lipid composition during metamorphosis of bonefish (Albula sp.) leptocephali. Padrón D, et al. **Lipids** 1996 May;31(5):513–9

Identification of a structural constituent and one possible site of postembryonic formation of a teleost otolithic membrane. Davis JG, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):707–12

IMMUNOLOGY

Occupational asthma caused by fish inhalation. Rodríguez J, et al. **Allergy** 1997 Aug;52(8):866–9

Codfish allergy in adults: IgE cross-reactivity among fish species. Hansen TK, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):187–94

Cross-reactivity of anti-yellowtail thymic lymphocyte monoclonal antibody (YeT-2) with lymphocytes from other fish species. Nishimura H, et al. **Arch Histol Cytol** 1997 Mar;60(1):113–9

Response of eosinophilic granule cells of gilthead seabream (Sparus aurata, Teleostei) to bacteria and bacterial products. Noya M, et al. **Cell Tissue Res** 1997 Jan; 287(1):223–30

Codfish allergy in adults. Specific tests for IgE and histamine release vs double-blind, placebo-controlled challenges. Hansen TK, et al. **Clin Exp Allergy** 1996 Nov; 26(11):1276–85

Adjuvants and immunostimulants for enhancing vaccine potency in fish. Anderson DP. **Dev Biol Stand** 1997; 90:257–65 (41 ref.)

Live fish vaccines: history and perspectives. Benmansour A, et al. **Dev Biol Stand** 1997;90:279–89

Environmental effects on fish immune mechanisms. Bly JE, et al. **Dev Biol Stand** 1997;90:33–43 (51 ref.)

Polyvalent vaccines in fish: the interactive effects of multiple antigens. Busch RA. **Dev Biol Stand** 1997;90:245–56 (25 ref.)

Regulatory harmonization—a vaccine industry perspective. Goodrich TD. **Dev Biol Stand** 1997;90:355–61

Technical aspects of the administration of vaccines. Horne MT. **Dev Biol Stand** 1997;90:79–89

Statistical aspects of fish vaccination trials. Jarp J, et al. **Dev Biol Stand** 1997;90:311–20

European regulations relevant to the marketing and use of fish vaccines. Lee A. **Dev Biol Stand** 1997;90:341–6

Operator safety during injection vaccination of fish. Leira HL, et al. **Dev Biol Stand** 1997;90:383–7

Fish vaccine antigens produced or delivered by recombinant DNA technologies. Leong JC, et al. **Dev Biol Stand** 1997; 90:267–77 (47 ref.)

The pitfalls of field trials in fish vaccinology. Mitchell H. **Dev Biol Stand** 1997;90:321–32

Antigen uptake and immune responses after immersion vaccination. Nakanishi T, et al. **Dev Biol Stand** 1997; 90:59–68 (61 ref.)

Strengths and weaknesses of different challenge methods. Nordmo R. **Dev Biol Stand** 1997;90:303–9

Antigen uptake and immune responses after oral vaccination. Quentel C, et al. **Dev Biol Stand** 1997;90:69–78 (75 ref.)

In vitro methods for vaccine evaluation. Reitan LJ, et al. **Dev Biol Stand** 1997;90:293–301 (24 ref.)

Canadian regulatory requirements for recombinant fish vaccines. Sethi MS, et al. **Dev Biol Stand** 1997;90:347–53

Immune responses after injection vaccination of fish. van Muiswinkel WB, et al. **Dev Biol Stand** 1997;90:55–7 (10 ref.)

The adaptive immune system of fish. Warr GW. **Dev Biol Stand** 1997;90:15–21 (33 ref.)

Immunity in fish larvae. Zapata AG, et al. **Dev Biol Stand** 1997;90:23–32 (45 ref.)

Immunogenetics of disease resistance in fish: a comparative approach. Wiegertjes GF, et al. **Dev Comp Immunol** 1996 Nov-Dec;20(6):365–81 (110 ref.)

Exposure to mercury alters early activation events in fish leukocytes. MacDougal KC, et al. **Environ Health Perspect** 1996 Oct;104(10):1102–6

An immune response to ice crystals in North Atlantic fishes. Verdier JM, et al. **Eur J Biochem** 1996 Nov 1;241(3):740–3

Ig light chain gene in the Siberian sturgeon (Acipenser baeri). Lundqvist M, et al. **J Immunol** 1996 Sep 1;157(5):2031–8

[Immune response of fishes with respect to phylogenetic aspects] Ahne W. **Tierarztl Prax** 1996 Feb;24(1):88–95 (27 ref.) (Eng. Abstr.) **(Ger)**

METABOLISM

Serine proteinases from cold-adapted organisms. Kristjánsson MM, et al. **Adv Exp Med Biol** 1997;415:27–46 (93 ref.)

Na(+)-D-glucose cotransport by intestinal BBMVs of the Antarctic fish Trematomus bernacchii. Maffia M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1576–83

Presence and activity of compounds with GnRH-like activity in the ovary of seabream Sparus aurata. Nabissi M, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R111–7

Electrogenic, proton-coupled, intestinal dipeptide transport in herbivorous and carnivorous teleosts. Thamotharan M, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R939–47

Temperature-dependent shift of pHi in fish white muscle: contributions of passive and active processes. Van Dijk PL, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R84–9

Evolution and regulation of urea synthesis and ureotely in (batrachoidid) fishes. Walsh PJ. **Annu Rev Physiol** 1997; 59:299–323 (110 ref.)

A study of radioactivities in six types of fish consumed in Hong Kong. Yu KN, et al. **Appl Radiat Isot** 1997 Apr; 48(4):515–9

Protection against heavy metal toxicity by mucus and scales in fish. Coello WF, et al. **Arch Environ Contam Toxicol** 1996 Mar;30(3):319–26

Metallothionein-like protein: is It an efficient biomarker of metal contamination? A case study based on fish from the Tunisian coast. Hamza-Chaffai A, et al. **Arch Environ Contam Toxicol** 1997 Jul;33(1):53–62

Concentration, distribution, and comparison of selected trace elements in bed sediment and fish tissue in the South Platte River Basin, USA, 1992–1993. Heiny JS, et al. **Arch Environ Contam Toxicol** 1997 Apr;32(3):246–59

DDT contamination in selected estuarine and coastal marine finfish and shellfish of New Jersey. Kennish MJ, et al. **Arch Environ Contam Toxicol** 1996 Aug;31(2):256–62

Phase I and II enzymes and antioxidant responses in different tissues of brown bullheads from relatively polluted and non-polluted systems. Otto DM, et al. **Arch Environ Contam Toxicol** 1996 Jul;31(1):141–7

Mercury concentrations in pond fish in relation to a coal-fired power plant. Pinkney AE, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):222–9

Immunocytochemical localization of taurine in the pineal organ and retina of an anadromous fish, Plecoglossus altivelis. Omura Y, et al. **Arch Histol Cytol** 1997 Jun; 60(2):153–62

Lethal effects of inorganic mercury on cells and tissues of Trichomycterus brasiliensis (Pisces; Siluroidei). Oliveira Ribeiro CA, et al. **Biocell** 1996 Dec;20(3):171–8

Metabolism of glyoxylate, the end product of purin degradation, in liver peroxisomes of fresh water fish. Sakuraba H, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):603–6

Induction and post-transcriptional suppression of hepatic cytochrome P450 1A1 by 3,3',4,4'-tetrachlorobiphenyl. White RD, et al. **Biochem Pharmacol** 1997 Apr 4; 53(7):1029–40

Autoradiographic localization of dihydrotestosterone and testosterone concentrating neurons in the brain of the oyster toadfish. Fine ML, et al. **Brain Res** 1996 Feb 12; 709(1):65–80

Polychlorinated biphenyls in Barents and Greenland Seas fish. Ali IB, et al. **Bull Environ Contam Toxicol** 1997 Jun; 58(6):885–92

Toxicity of chlorpyrifos, fenubucarb, monocrotophos, and methyl parathion to fish and frogs after a simulated overflow of paddy water. Calumpang SM, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):909–14

Influence of textile dyeing and printing industry effluent on ATPases in liver, brain, and muscle of mudskipper, Periophthalmus dipes. Chhaya J, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):793–800

Fate of oil hydrocarbons in fish and shrimp after major oil spills in the Arabian Gulf. Fayad NM, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):475–82

Total and organic mercury in Greenland and Barents Seas demersal fish. Joiris CR, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):101–7

Chlordane contamination in selected freshwater finfish of New Jersey. Kennish MJ, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):142–9

1-Nitropyrene-metabolizing activities of fish liver preparations. Kitamura S, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):448–55

Stress-related changes in cunner, Tautogolabrus adspersus, living near a paper mill. Mercer IR, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):442–7

Mercury levels in muscle of some fish species from the Dique Channel, Colombia. Olivero J, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):865–70

Pesticides in water and fish from rivers flowing into Lake Biwa. Tsuda T, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):442–9

Eel-pout (Zoarces viviparus L.) as a marine bioindicator. Schladot JD, et al. **Chemosphere** 1997 May; 34(9-10):2133–42

Lithium transport in the chicken and marine teleost kidney. Natochin YuV, et al. **Comp Biochem Physiol A Physiol** 1996 Sep;115(1):73–9

Determination of alpha-, gamma(+ beta)-, and delta-tocopherols in a variety of liver tissues by reverse-phase high pressure liquid chromatography. Koprivnjak JF, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):143–8

Cytochromes P450 (CYP) in tropical fishes: catalytic activities, expression of multiple CYP proteins and high levels of microsomal P450 in liver of fishes from Bermuda. Stegeman JJ, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jan;116(1):61–75

Selenium bioaccumulation and hazards in a fish community affected by coal fly ash effluent. Besser JM, et al. **Ecotoxicol Environ Saf** 1996 Oct;35(1):7–15

Influence of the energy relationships of organic compounds on their specificity toward aquatic organisms. Genoni GP. **Ecotoxicol Environ Saf** 1997 Mar;36(2):99–108

The capacity of liver microsomes to form benzo[a]pyrene-diolepoxide-DNA adducts and induction of cytochrome P450 1A in feral fish exposed to pulp mill effluents. Kantoniemi A, et al. **Ecotoxicol Environ Saf** 1996 Nov;35(2):136–41

Fish biliary polycyclic aromatic hydrocarbon metabolites estimated by fixed-wavelength fluorescence: comparison with HPLC-fluorescent detection. Lin EL, et al. **Ecotoxicol Environ Saf** 1996 Oct;35(1):16–23

A comparative analysis of somatolactin-related immunoreactivity in the pituitaries of four neopterygian fishes and one chondrostean fish: an immunohistochemical study. Dores RM, et al. **Gen Comp Endocrinol** 1996 Apr; 102(1):79–87

Isolation and characterization of two distinct gonadotropins from the pituitary gland of Mediterranean yellowtail, Seriola dumerilii (Risso, 1810). García-Hernández MP, et al. **Gen Comp Endocrinol** 1997 Jun;106(3):389–99

An immunohistochemical study of the endocrine cells within the pancreas, intestine, and stomach of the gar (Lepisosteus osseus L.) Groff KE, et al. **Gen Comp Endocrinol** 1997 Apr; 106(1):1–16

Past and present levels of some radionuclides in fish from Bikini and Enewetak Atolls. Noshkin VE, et al. **Health Phys** 1997 Jul;73(1):49–65

Glucagon and glucagon-like peptides in fishes. Plisetskaya EM, et al. **Int Rev Cytol** 1996;168:187–257 (260 ref.)

TCDD residues in fish and shellfish from U.S. waterways. Firestone D, et al. **J AOAC Int** 1996 Sep-Oct;79(5):1174–83

Gas chromatographic method for putrescine and cadaverine in canned tuna and mahimahi and fluorometric method for histamine (minor modification of AOAC Official Method 977.13): collaborative study. Rogers PL, et al. **J AOAC Int** 1997 May-Jun;80(3):591–602

Determination of organochlorine pesticide and polychlorinated biphenyl residues in fatty fish by tandem solid-phase extraction cleanup. Schenck FJ, et al. **J AOAC Int** 1996 Sep-Oct;79(5):1209–14

Screening of nonfatty fish for organochlorine pesticide residues by solid-phase extraction cleanup: interlaboratory study. Schenck FJ. **J AOAC Int** 1996 Sep-Oct;79(5):1215–9

Hypophysial and extrahypophysial projections of the neurosecretory system of cartilaginous fishes: an immunocytochemical study using a polyclonal antibody against dogfish neurophysin. Meurling P, et al. **J Comp Neurol** 1996 Sep 23;373(3):400–21

Immunocytochemical localization of atrial natriuretic factor and autoradiographic distribution of atrial natriuretic factor binding sites in the brain of the African lungfish, Protopterus annectens. Vallarino M, et al. **J Comp Neurol** 1996 Nov 18;375(3):345–62

Inhibition of goby posterior intestinal NaCl absorption by natriuretic peptides and by cardiac extracts. Loretz CA. **J Comp Physiol [B]** 1996;166(8):484–91

Immunolocalisation of angiotensin II receptors in icefish (Chionodraco hamatus) tissues. Marsigliante S, et al. **J Endocrinol** 1997 Aug;154(2):193–200

Effects of Ca2+ on oxidative phosphorylation in mitochondria from the thermogenic organ of marlin. O'Brien J, et al. **J Exp Biol** 1996 Dec;199 (12):2679–87

Melatonin receptors are present in non-optic regions of the brain of a deep-sea fish living in the absence of solar light. Smith A, et al. **J Neuroendocrinol** 1996 Sep;8(9):655–8

Concentration factors for 137Cs in Japanese coastal fish (1984–1990). Tateda Y, et al. **J Radiat Res (Tokyo)** 1996 Jun;37(2):71–9

Activity of esterases from different tissues of freshwater fish and responses of their isoenzymes to inhibitors. Li SN, et al. **J Toxicol Environ Health** 1997 Jun 6;51(2):149–57

Lipid content and fatty acid composition of 11 species of Queensland (Australia) fish. Belling GB, et al. **Lipids** 1997 Jun;32(6):621–5

The high content of monoene fatty acids in the lipids of some midwater fishes: family Myctophidae. Saito H, et al. **Lipids** 1996 Jul;31(7):757–63

Localization of immunoreactive endothelin in the neuroendocrine cells of fish gill. Zaccone G, et al. **Neuropeptides** 1996 Feb;30(1):53–7

Ion regulation in ion-poor acidic water by the blackskirt tetra (Gymnocorymbus ternetzi), a fish native to the Amazon River. Gonzalez RJ, et al. **Physiol Zool** 1997 Jul-Aug; 70(4):428–35

Mercury speciation and accumulation in Bangladesh freshwater and anadromous fish. Holsbeek L, et al. **Sci Total Environ** 1997 May 30;198(3):201–10

Fish consumption and other characteristics of reproductive-aged Michigan anglers--a potential population for studying the effects of consumption of Great Lakes fish on reproductive health. Courval JM, et al. **Toxicol Ind Health** 1996 May-Aug;12(3–4):347–59

Polychlorinated biphenyl (PCB) and dichlorodiphenyl dichloroethylene (DDE) exposure among Native American men from contaminated Great Lakes fish and wildlife. Fitzgerald EF, et al. **Toxicol Ind Health** 1996 May-Aug; 12(3–4):361–8

The Great Lakes: a historical overview. Hicks HE. **Toxicol Ind Health** 1996 May-Aug;12(3–4):303–13 (30 ref.)

The New York Angler Cohort Study: exposure characterization and reproductive and developmental health. Vena JE, et al. **Toxicol Ind Health** 1996 May-Aug;

12(3–4):327–34

Great Lakes fish as a source of maternal and fetal exposure to chlorinated hydrocarbons. Waller DP, et al. **Toxicol Ind Health** 1996 May–Aug;12(3–4):335–45

Isolation and characterisation of Caribbean ciguatoxins from the horse-eye jack (Caranx latus). Vernoux JP, et al. **Toxicon** 1997 Jun;35(6):889–900

[Annual daily intakes of Hg, PCB and arsenic from fish and shellfish and comparative survey of their residue levels in fish by body weight] Ikarashi A, et al. **Eisei Shikenjo Hokoku** 1996;(114):43–7 (Eng. Abstr.) **(Jpn)**

[The digestive characteristics of fishes (the biocenotic aspects)] Kuz'mina VV. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):95–102 (28 ref.) (Eng. Abstr.) **(Rus)**

[The serotoninergic neurosecretory system in the caudal neurosecretory complex of sturgeons] Saenko II. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):128–34 **(Rus)**

[Isolation and properties of fish chymopsin] Kolodzeiskaia MV, et al. **Ukr Biokhim Zh** 1996 Jul–Aug;68(4):75–9 (Eng. Abstr.) **(Rus)**

[A comparative study of the phospholipids and their fatty acid composition in different organs of mammals and fishes. The role of stereometry of the phospholipid molecules during the extraction of oxygen from the environment in these animal groups] Zabelinskiĭ SA, et al. **Zh Evol Biokhim Fiziol** 1996 Nov–Dec;32(6):722–34 **(Rus)**

[Proteolytic activity control in fish silage] Tomé E, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):317–21 (Eng. Abstr.) **(Spa)**

[Solubilization of the AMP deaminase in the muscles of the teleost fish Scorpaena] Smirnova IuD, et al. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):63–8 (Eng. Abstr.) **(Ukr)**

MICROBIOLOGY

Typing Listeria monocytogenes isolates from fish products and human listeriosis cases. Boerlin P, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1338–43

Invasive infection due to Streptococcus iniae: a new or previously unrecognized disease--Ontario, 1995–1996. Weinstein M, et al. **Can Commun Dis Rep** 1996 Aug 1; 22(15):129–31; discussion 131–2 **(Eng, Fre)**

Electron microscopic characteristics of actinomycetic agents having aetiological association with human leprosy and epizootic ulcerative syndrome of fish. Chakrabarty A, et al. **Indian J Exp Biol** 1996 Aug;34(8):810–2

Effect of modified atmosphere packaging on the TVB/TMA-producing microflora of cod fillets. Debevere J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):221–9

Microbiological spoilage of fish and fish products. Gram L, et al. **Int J Food Microbiol** 1996 Nov;33(1):121–37 (69 ref.)

Aeromonas species in fish, fish-eggs, shrimp and freshwater. Hänninen ML, et al. **Int J Food Microbiol** 1997 Jan; 34(1):17–26

Detection of Clostridium botulinum in fish and environmental samples using polymerase chain reaction. Hielm S, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):357–65

Incidence of Listeria spp. in tropical fish. Jeyasekaran G, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):333–40

Incidence and toxigenicity of Aeromonas hydrophila in seafood. Tsai GJ, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):121–31

Shieh medium supplemented with tobramycin for selective isolation of Flavobacterium columnare (Flexibacter columnaris) from diseased fish. Decostere A, et al. **J Clin Microbiol** 1997 Jan;35(1):322–4

Antimicrobial treatment of fish tank granuloma. Laing RB, et al. **J Hand Surg [Br]** 1997 Feb;22(1):135–7

The cell surface of Aeromonas salmonicida determines in vitro survival in cultured brook trout (Salvelinus fontinalis) peritoneal macrophages. Daly JG, et al. **Microb Pathog** 1996 Dec;21(6):447–61

Vibrio cholerae 01 in fish tank water [letter] Hay J, et al. **Public Health** 1996 Mar;110(2):131

Typing of the fish pathogen Listonella (Vibrio) anguillara by pyrolysis mass spectrometry. Manfio GP, et al. **Zentralbl Bakteriol** 1997 Jan;285(2):245–51

[Microbiological contamination of fish in the delta of Volga] Lartseva LV, et al. **Gig Sanit** 1997 May–Jun;(3):24–6 (Eng. Abstr.) **(Rus)**

[Enterobacteria isolated from commercial fishes from the Volga–Caspian basin] Lartseva LV, et al. **Gig Sanit** 1996 May–Jun;(3):22–3 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Dynamics of Anguillicola crassus (Nematoda: Dracunculoidea) larval infection in paratenic host fishes of Lake Balaton, Hungary. Székely C. **Acta Vet Hung** 1995; 43(4):401–22

Sensitization to Anisakis simplex: an unusual presentation. Estrada Rodríguez JL, et al. **Allergol Immunopathol (Madr)** 1997 Mar–Apr;25(2):95–7

A new species of Phyllobothrium, parasite from Rhinoptera javanica from Waltair Coast, Andhra Pradesh, India. Vijayalakshmi C, et al. **Bol Chil Parasitol** 1996 Jan–Jun; 51(1–2):12–4

Trypanosoma Mukasai (HOARE, 1932) in its biological vector Batracobdelloides tricarinata (BLANCHARD, 1897) and their life cycles. Negm-Eldin MM. **DTW Dtsch Tierarztl Wochenschr** 1997 Jun;104(6):215–9

Intense infections with a variant of Myxobolus procerus (Myxosporea) in muscle of trout-perch (Percopsis omiscomaycus) in Duluth Harbor, Lake Superior. Cone D, et al. **Folia Parasitol (Praha)** 1997;44(1):7–11

Experimental studies on the infectivity of Anguillicola crassus third-stage larvae (Nematoda) from paratenic hosts. Székely C. **Folia Parasitol (Praha)** 1996;43(4):305–11

A revision of Heterocotyle (Monogenea:Monocotylidae) with a description of Heterocotyle capricornensis n. sp. from Himantura fai (Dasyatididae) from Heron Island, Great Barrier Reef, Australia. Chisholm LA, et al. **Int J Parasitol** 1996 Nov;26(11):1169–90

Hatching rhythms in the the capsalid monogeneans Benedenia lutjani from the skin and B. rohdei from the gills of Lutjanus carponotatus at Heron Island, Queensland, Australia. Ernst I, et al. **Int J Parasitol** 1996 Nov; 26(11):1191–204

The adhesive attitude of the gill-parasitic ancyrocephaline monogenean Bifurcohaptor indicus. Kearn GC, et al. **Int J Parasitol** 1997 May;27(5):607–9

A comparison of the ectoparasite assemblage on snapper, Pagrus auratus, from different regions in Australia and from New Zealand. Roubal FR. **Int J Parasitol** 1996 Jun; 26(6):661–5

The distribution and abundance of Lernaeocera lusci (Copepoda) on hake (Merluccius merluccius) and bib (Trisopterus luscus) (Teleostei). Tirard C, et al. **Int J Parasitol** 1996 Dec;26(12):1387–92

Genomic identification of Anisakis simplex isolates. Siles M, et al. **J Helminthol** 1997 Mar;71(1):73–5

Ultrastructure of spermiogenesis and the spermatozoon of Nomimoscolex sp. (Cestoda, Proteocephalidea) intestinal parasite of Clarotes laticeps (Fish, Teleost) in Senegal. Sène A, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):115–24

Conger myriaster, a new second intermediate host of Heterophyopsis continua (Digenea:Heterophyidae). Kim KH, et al. **Korean J Parasitol** 1996 Dec;34(4):283–5

The infestation states and changing patterns of human infecting metacercariae in freshwater fish in Kyongsang-do and Kyonggi-do, Korea. Rim HJ, et al. **Korean J Parasitol** 1996 Jun;34(2):95–105

Classification and host specificity of Metagonimus spp. from Korean freshwater fish. Rim HJ, et al. **Korean J Parasitol** 1996 Mar;34(1):7–14

Structure and diversity of endoparasitic infracommunities and the trophic level of Pseudoplatystoma corruscans and Schizodon borelli (Osteichthyes) of the high Paraná River. Machado MH, et al. **Mem Inst Oswaldo Cruz** 1996 Jul–Aug; 91(4):441–8

Evolutionary relationships of sibling tapeworm species (Cestoda) parasitizing teleost fishes. Verneau O, et al. **Mol Biol Evol** 1997 Jun;14(6):630–6

Camallanus polypteri n. sp. (Nematoda:Camallanidae) in freshwater fishes from Burkina Faso. Kabré GB, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):33–7

Ultrastructure and cytochemistry study of Eimeria sparis (Protozoa:Apicomplexa) stages from the intestine of gilthead sea bream Sparus aurata L. (Pisces:teleostei). Alvarez-Pellitero P, et al. **Parasitol Res** 1997;83(2):126–36

Some ultrastructural aspects of Henneguya striolata sp. nov. (Myxozoa, Myxosporea), a parasite of the Amazonian fish Serrasalmus striolatus. Casal G, et al. **Parasitol Res** 1997; 83(1):93–5

Experimental infection/transmission of sculpins (Myoxocephalus scorpius) and cod (Gadus morhua) by sealworm (Pseudoterranova decipiens) larvae. Jensen T. **Parasitol Res** 1997;83(4):380–2

Ectoparasites of the whitespotted rabbitfish, Siganus sutor (Valenciennes, 1835) off the Kenyan Coast: distribution within the host population and site selection on the gills. Geets A, et al. **Parasitology** 1997 Jul;115 (Pt 1):69–79

A survey of Gnathostoma larvae in fresh water fish in the valley of the Yangtze River and morphological characteristics of the recovered larvae. Koga M, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):542–7

Workshop summary: food safety: meat- and fish-borne zoonoses. Eckert J. **Vet Parasitol** 1996 Aug;64(1–2):143–7

Marine parasitology with special reference to Japanese fisheries and mariculture. Ogawa K. **Vet Parasitol** 1996 Aug;64(1–2):95–105 (36 ref.)

[Localization and activity of some hydrolases in larvae of tapeworms Neogryporhynchus cheilancristrotus and Triaenophorus nodulosus parasitizing fish] Niemczuk W, et al. **Wiad Parazytol** 1996;42(4):415–20 (Eng. Abstr.) **(Pol)**

[Phalocrocorax olivaceus (Aves: Phalacrocoracidae), a new vector of Henneguya sp. in aquatic ecosystems from southern Chile] Figueroa L, et al. **Bol Chil Parasitol** 1995 Jul–Dec;50(3–4):101–2 (Eng. Abstr.) **(Spa)**

[Seasonal infection by metacercaria of Diplostomum (Austrodiplostomum) mordax (Szidat and Nani, 1951) and Tylodelphys destructor Szidat and Nani, 1951 in the Chilean Silverside, Basilichthys australis Eigenmann, 1927 (Pisces:Atherinidae) in Lake Riñihue] Torres P, et al. **Bol Chil Parasitol** 1996 Jan–Jun;51(1–2):15–9 (Eng. Abstr.) **(Spa)**

[Presence of protozoan parasites in Argentine Patogonian autochthonous fish] Viozzi G. **Bol Chil Parasitol** 1996 Jan–Jun;51(1–2):32–4 **(Spa)**

PHYSIOLOGY

Myoglobin enhances cardiac performance in antarctic icefish species that express the protein. Acierno R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R100–6

Cardiac performance in relation to oxygen supply varies with dietary lipid composition in sturgeon. Agnisola C, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R417–25

Cardiac force and high-energy phosphates under metabolic inhibition in four ectothermic vertebrates. Hartmund T, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R946–54

Nervous control of the spleen in the red-blooded Antarctic fish, Pagothenia borchgrevinki. Nilsson S, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R599–604

Efferent neurons of the lateral line system and their innervation of lateral line branches in a euteleost and an osteoglossomorph. Wagner T, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):271–8

Immunocytochemical and ultrastructural characterization of melanotropin and adrenocorticotropin cells from the Mediterranean yellowtail (Seriola dumerilii, Risso 1810). García-Hernández MP, et al. **Anat Rec** 1997 Sep; 249(1):74–80

Immunodetection of amelogenin-like proteins in the ganoine of experimentally regenerating scales of Calamoichthys calabaricus, a primitive actinopterygian fish. Zylberberg L, et al. **Anat Rec** 1997 Sep;249(1):86–95

The chloride cell: structure and function in the gills of freshwater fishes. Perry SF. **Annu Rev Physiol** 1997; 59:325–47 (99 ref.)

Evolution of lactate dehydrogenase-A homologs of barracuda fishes (genus Sphyraena) from different thermal environments: differences in kinetic properties and thermal stability are due to amino acid substitutions outside the active site. Holland LZ, et al. **Biochemistry** 1997 Mar 18; 36(11):3207–15

Cooperation among unrelated individuals: reciprocal altruism, by-product mutualism and group selection in fishes. Dugatkin LA, et al. **Biosystems** 1996;37(1–2):19–30

The generation and subtraction of sensory expectations within cerebellum-like structures. Bell C, et al. **Brain Behav Evol** 1997;50 Suppl 1:17–31 (60 ref.)

The preglomerular nucleus of gymnotiform fish: relay station for conveying information between telencephalon and diencephalon. Zupanc GK. **Brain Res** 1997 Jul 4; 761(2):179–91

Cardiovascular effects of adrenomedullin in teleost fishes. Aota S. **Braz J Med Biol Res** 1995 Nov–Dec; 28(11–12):1223–6

The coronary circulation: a fish perspective. Axelsson M. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1167–77 (38 ref.)

Fish antioxidant defenses--a comparative approach. Wilhelm Filho D. **Braz J Med Biol Res** 1996 Dec;29(12):1735–42

The heart of the icefish: bioconstruction and adaptation. Zummo G, et al. **Braz J Med Biol Res** 1995 Nov–Dec; 28(11–12):1265–76 (40 ref.)

Relative susceptibility of different life stages of Channa punctatus and Cyprinus carpio to nickel-chrome electroplating effluent. Kaur A, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):836–41

Visual connections of the atypical diencephalic nucleus rostrolateralis in Pantodon buchholzi (Teleostei, Osteoglossomorpha). Saidel WM, et al. **Cell Tissue Res** 1997 Jan;287(1):91–9

Characterization of the single tyrosine containing troponin C from lungfish white muscle. Comparison with several fast skeletal muscle troponin C's from fish species. François JM, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Aug;117(4):589–98

Relative sensitivity of three endangered fishes, Colorado squawfish, bonytail, and razorback sucker, to selected metal pollutants. Buhl KJ. **Ecotoxicol Environ Saf** 1997 Jul; 37(2):186–92

Distinct efficacies for two endogenous ligands on a single cognate gonadoliberin receptor. Tensen C, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):134–40

Immunocytochemical and ultrastructural changes in the caudal neurosecretory system of a seawater fish Boops boops L. (teleostei:sparidae) in relation to the osmotic stress. Minniti F, et al. **Eur J Morphol** 1995 Nov; 33(5):473–83

Molecular evolution of fish neurohypophysial hormones: neutral and selective evolutionary mechanisms. Acher R. **Gen Comp Endocrinol** 1996 May;102(2):157–72 (59 ref.)

Reproductive steroids during maturation in a primitive teleost, the Pacific herring (Clupea harengus pallasi). Carolsfeld J, et al. **Gen Comp Endocrinol** 1996 Sep; 103(3):331–48

Arginine vasotocin relaxation of gar (Lepisosteous spp.) hepatic vein in vitro. Conklin DJ, et al. **Gen Comp Endocrinol** 1996 Oct;104(1):52–60

Primary structure of insulin from the african lungfish, Protopterus annectens. Conlon JM, et al. **Gen Comp Endocrinol** 1997 Sep;107(3):421–7

Deciphering posttranslational processing events in the pituitary of a neopterygian fish: cloning of a gar proopiomelanocortin cDNA. Dores RM, et al. **Gen Comp Endocrinol** 1997 Sep;107(3):401–13

Modification of gonadotropin releasing hormone (GnRH) mRNA expression in the retinal-recipient Thalamus. Foran CM, et al. **Gen Comp Endocrinol** 1997 May;106(2):251–64

Localization of IGF-I and IGF-I receptor mRNA in Sparus

aurata larvae. Funkenstein B, et al. **Gen Comp Endocrinol** 1997 Sep;107(3):291–303

The kallikrein–kinin and renin–angiotensin systems in the kidney of an African lungfish, Protopterus annectens. Masini MA, et al. **Gen Comp Endocrinol** 1996 Jul; 103(1):93–100

Growth hormone as a function of age and dietary protein: energy ratio in a marine teleost, the gilthead sea bream (Sparus aurata). Martí-Palanca H, et al. **Growth Regul** 1996 Dec;6(4):253–9

Pheromone-induced spawning of Pacific herring. I. Behavioral characterization. Carolsfeld J, et al. **Horm Behav** 1997 Jun;31(3):256–68

Pheromone-induced spawning of Pacific herring. II. Plasma steroids distinctive to fish responsive to spawning pheromone. Carolsfeld J, et al. **Horm Behav** 1997 Jun; 31(3):269–76

Role of the pineal organ in the photoregulated hatching of the Atlantic halibut. Forsell J, et al. **Int J Dev Biol** 1997 Aug;41(4):591–5

Cell to cell interactions during teleosts fin regeneration. Mari-Beffa M, et al. **Int J Dev Biol** 1996;Suppl 1:179S–180S

An antiserum against ceratotrichia (selachian) recognizes actinotrichia in teleost regenerating fins. Santamaria JA, et al. **Int J Dev Biol** 1996;Suppl 1:175S–176S

Sonic/vocal–acousticolateralis pathways in teleost fishes: a transneuronal biocytin study in mochokid catfish. Ladich F, et al. **J Comp Neurol** 1996 Oct 28;374(4):493–505

Differential central projections of physiologically characterized horizontal semicircular canal vestibular nerve afferents in the toadfish, Opsanus tau. Mensinger AF, et al. **J Comp Neurol** 1997 Jul 21;384(1):71–85

Feature-detecting auditory neurons in the brain of a sound-producing fish. Crawford JD. **J Comp Physiol [A]** 1997 May;180(5):439–50

The eye of the blue acara (Aequidens pulcher, Cichlidae) grows to compensate for defocus due to chromatic aberration. Kröger RH, et al. **J Comp Physiol [A]** 1996 Dec;179(6):837–42

Rhythmic melatonin secretion in different teleost species: an in vitro study. Bolliet V, et al. **J Comp Physiol [B]** 1996; 165(8):677–83

Muscle length changes during swimming in scup: sonomicrometry verifies the anatomical high-speed cine technique. Coughlin DJ, et al. **J Exp Biol** 1996 Feb;199 (Pt 2):459–63

Contraction dynamics and power production of pink muscle of the scup (Stenotomus chrysops). Coughlin DJ, et al. **J Exp Biol** 1996 Dec;199 (12):2703–12

The physiology of massive zinc accumulation in the liver of female squirrelfish and its relationship to reproduction. Hogstrand C, et al. **J Exp Biol** 1996 Nov;199 (Pt 11):2543–54

Contraction kinetics of red muscle in scup: mechanism for variation in relaxation rate along the length of the fish. Swank DM, et al. **J Exp Biol** 1997 May;200 (Pt 9):1297–307

Neuropeptide Y (NPY) induces gonad reversal in the protogynous bluehead wrasse, Thalassoma bifasciatum (Teleostei: Labridae). Kramer CR, et al. **J Exp Zool** 1997 Oct 1;279(2):133–44

Nonsequential developmental trajectories lead to dimorphic vocal circuitry for males with alternative reproductive tactics. Bass AH, et al. **J Neurobiol** 1996 Aug;30(4):493–504

Pharmacological evidence for two types of postsynaptic glycinergic receptors on the Mauthner cell of 52-h-old zebrafish larvae. Legendre P. **J Neurophysiol** 1997 May; 77(5):2400–15

Characterization of TTX-resistant persistent Na+ current underlying pacemaker potentials of fish gonadotropin-releasing hormone (GnRH) neurons. Oka Y. **J Neurophysiol** 1996 Jun;75(6):2397–404

Nucleus preeminentialis of mormyrid fish, a center for recurrent electrosensory feedback. I. Electrosensory and corollary discharge responses. von der Emde G, et al. **J Neurophysiol** 1996 Sep;76(3):1581–96

Effects of glutamic acid and related agents on horizontal cells in a marine teleost retina. Laufer M, et al. **J Neurosci Res** 1996 Jun 15;44(6):568–76

Origins of horizontal cell spectral responses in the retina of marine teleosts (Centropomus and Mugil sp). Negishi K, et al. **J Neurosci Res** 1997 Jan 1;47(1):68–76

Perspectives on Canadian field studies examining the potential of pulp and paper mill effluent to affect fish reproduction. Kovacs TG, et al. **J Toxicol Environ Health** 1997 Jul;51(4):305–52 (77 ref.)

Lesions of gonadotropin-releasing hormone-immunoreactive terminal nerve cells: effects on the reproductive behavior of male dwarf gouramis. Yamamoto N, et al. **Neuroendocrinology** 1997 Jun;65(6):403–12

Lateralization of predator–evasion response in a teleost fish (Girardinus falcatus). Cantalupo C, et al. **Neuropsychologia** 1995 Dec;33(12):1637–46

Serial adult sex change involves rapid and reversible changes in forebrain neurochemistry. Grober MS, et al. **Neuroreport** 1996 Nov 25;7(18):2945–9

Nervus terminalis projection to the retina in the 'four-eyed' fish, Anableps anableps. Meyer DL, et al. **Neurosci Lett** 1996 Aug 2;213(2):87–90

Density ratio of dopaminergic versus serotonergic cells correlates with cone–to–rod ratio in teleost retinas. Negishi K, et al. **Neurosci Lett** 1997 Mar 28;225(1):37–40

Long-term survival of postembryonically born cells in the cerebellum of gymnotiform fish, Apteronotus leptorhynchus. Ott R, et al. **Neurosci Lett** 1997 Jan 17; 221(2–3):185–8

Immunoreactive Phe-Met-Arg-Phe-NH2-like peptides in the brain of the antarctic icefish, Chionodraco hamatus. Pestarino M, et al. **Neurosci Lett** 1996 Jul 26;213(1):21–4

Aroclor 1254-induced alterations in hypothalamic monoamine metabolism in the Atlantic croaker (Micropogonias undulatas): correlation with pituitary gonadotropin release. Khan IA, et al. **Neurotoxicology** 1997; 18(2):553–60

Lateral asymmetries during escape behavior in a species of teleost fish (Jenynsia lineata). Bisazza A, et al. **Physiol Behav** 1997 Jan;61(1):31–5

Lateralization of displays during aggressive and courtship behaviour in the Siamese fighting fish (Betta splendens). Cantalupo C, et al. **Physiol Behav** 1996 Jul;60(1):249–52

Absolute and spectral sensitivities in dark- and light-adapted Pagothenia borchgrevinki, an Antarctic notothenid fish. Morita Y, et al. **Physiol Behav** 1997 Feb;61(2):159–63

The stress response in fish. Wendelaar Bonga SE. **Physiol Rev** 1997 Jul;77(3):591–625 (285 ref.)

Ion regulation in ion-poor acidic water by the blackskirt tetra (Gymnocorymbus ternetzi), a fish native to the Amazon River. Gonzalez RJ, et al. **Physiol Zool** 1997 Jul–Aug; 70(4):428–35

Behavioural sex change in the absence of gonads in a coral reef fish. Godwin J, et al. **Proc R Soc Lond B Biol Sci** 1996 Dec 22;263(1377):1683–8

Mechanisms of wavelength tuning in the rod opsins of deep-sea fishes. Hope AJ, et al. **Proc R Soc Lond B Biol Sci** 1997 Feb 22;264(1379):155–63

Interactions of angiotensin II and atrial natriuretic peptide in the brain: fish to rodent. Galli SM, et al. **Proc Soc Exp Biol Med** 1996 Nov;213(2):128–37 (65 ref.)

17 alpha,20 beta–dihydroxy–4–pregnen–3–one, a maturation-inducing hormone in fish oocytes: mechanisms of synthesis and action. Nagahama Y. **Steroids** 1997 Jan; 62(1):190–6 (46 ref.)

Haemostasis in fish—an evolutionary perspective. Rowley AF, et al. **Thromb Haemost** 1997 Feb;77(2):227–33 (61 ref.)

Fish diseases and environmental quality. Vethaak D. **Vet Q** 1996;18 Suppl 3:S130–1 (12 ref.)

The naturally occurring accommodative response of the oscar, Astronotus ocellatus, to visual stimuli. Andison ME, et al. **Vision Res** 1996 Oct;36(19):3021–7

[Genomic heterozygosity, sexual maturation rate, and life expectancy] Altukhov IuP. **Dokl Akad Nauk** 1996 Jun; 348(6):842–5 **(Rus)**

[New data on the characteristics of sleep and the organization of the wakefulness-sleep cycle in cold-blooded vertebrates] Karmanova IG. **Zh Evol Biokhim Fiziol** 1996 Jul–Aug; 32(4):511–35 (10 ref.) **(Rus)**

VIROLOGY

Genomic classification of fish nodaviruses by molecular phylogenetic analysis of the coat protein gene. Nishizawa T, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1633–6

Host resistance to rat cytomegalovirus (RCMV) and immune function in adult PVG rats fed herring from the contaminated Baltic Sea. Ross PS, et al. **Arch Toxicol** 1996; 70(10):661–71

Mapping the neutralizing epitopes on the glycoprotein of infectious haematopoietic necrosis virus, a fish rhabdovirus. Huang C, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3033–40

Comparison of the coat protein genes of five fish nodaviruses, the causative agents of viral nervous necrosis in marine fish. Nishizawa T, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1563–9

Nucleotide sequence of the glycoprotein gene of viral haemorrhagic septicaemia (VHS) viruses from different geographical areas: a link between VHS in farmed fish species and viruses isolated from North Sea cod (Gadus morhua L.). Stone DM, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1319–26

Identification of a new genogroup of aquareovirus by RNA-RNA hybridization. Subramanian K, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1385–8

Fish nodavirus lytic cycle and semipermissive expression in mammalian and fish cell cultures. Delsert C, et al. **J Virol** 1997 Jul;71(7):5673–7

Major viral diseases affecting fish aquaculture in Spain. Pérez SI, et al. **Microbiologia** 1997 Jun;13(2):149–60 (43 ref.)

PCR and RT-PCR analysis of infection and transcriptional activity of walleye dermal sarcoma virus (WDSV) in organs of adult walleyes (Stizostedion vitreum). Poulet FM, et al. **Vet Pathol** 1996 Jan;33(1):66–73

Molecular characterization, sequence analysis, and taxonomic position of newly isolated fish iridoviruses. Mao J, et al. **Virology** 1997 Mar 3;229(1):212–20

The glycoprotein genes and gene junctions of the fish rhabdoviruses spring viremia of carp virus and hirame rhabdovirus: analysis of relationships with other rhabdoviruses. Björklund HV, et al. **Virus Res** 1996 Jun; 42(1–2):65–80

[Iridovirus infection in fish] Nakajima K. **Uirusu** 1996 Jun; 46(1):61–6 (26 ref.) **(Jpn)**

[Marine fish pathogenic ssRNA viruses] Nishizawa T. **Uirusu** 1996 Jun;46(1):67–72 (32 ref.) **(Jpn)**

[Molecular biology of fish birnaviruses and its application] Suzuki S. **Uirusu** 1996 Jun;46(1):73–8 (32 ref.) **(Jpn)**

[Fish viruses] Yoshimizu M. **Uirusu** 1996 Jun;46(1):49–52 (10 ref.) **(Jpn)**

FISHES, POISONOUS

see related
FISH VENOMS
TETRODOTOXIN

Tetrodotoxic poisoning from ingestion of a porcupine fish (Diodon hystrix) in Papua New Guinea: nerve conduction studies. Trevett AJ, et al. **Am J Trop Med Hyg** 1997 Jan; 56(1):30–2

Anesthesia for fish envenomation [letter; comment] Bush SP. **Ann Emerg Med** 1997 May;29(5):692–3. Comment on: Ann Emerg Med 1996 Oct;28(4):456–7.

Stonefish sting: an occupational hazard in Hong Kong. Chan TY, et al. **Ann Trop Med Parasitol** 1996 Dec;90(6):675–6

Poisonings: food, fish, shellfish. Mines D, et al. **Emerg Med Clin North Am** 1997 Feb;15(1):157–77 (65 ref.)

Case report: Weever fish sting—an unusual cause of foot pain. Mulcahy DM, et al. **Ir J Med Sci** 1996 Jul–Sep;165(3):153–4

Stingray injury. Evans RJ, et al. **J Accid Emerg Med** 1996 May;13(3):224–5

Ichthyosarcotoxism: poisoning by edible fish. Grant IC. **J Accid Emerg Med** 1997 Jul;14(4):246–51 (56 ref.)

An in vitro pharmacological examination of venom from the soldierfish Gymnapistes marmoratus. Hopkins BJ, et al. **Toxicon** 1997 Jul;35(7):1101–11

GENETICS

Genomic structure and sequence analysis of the valyl-tRNA synthetase gene of the Japanese pufferfish, Fugu rubripes. Lim EH, et al. **DNA Seq** 1997;7(3–4):141–51

Genomic structure and sequence of the pufferfish (Fugu rubripes) growth hormone–encoding gene: a comparative analysis of teleost growth hormone genes. Venkatesh B, et al. **Gene** 1997 Mar 18;187(2):211–5

Fugu intron oversize reveals the presence of U15 snoRNA coding sequences in some introns of the ribosomal protein S3 gene. Crosio C, et al. **Genome Res** 1996 Dec; 6(12):1227–31

Conserved linkage between the puffer fish (Fugu rubripes) and human genes for platelet-derived growth factor receptor and macrophage colony-stimulating factor receptor. How GF, et al. **Genome Res** 1996 Dec; 6(12):1185–91

G protein alpha subunit multigene family in the Japanese puffer fish Fugu rubripes: PCR from a compact vertebrate genome [letter] Sarwal MM, et al. **Genome Res** 1996 Dec; 6(12):1207–15

Tetraodon fluviatilis, a new puffer fish model for genome studies. Crnogorac-Jurcevic T, et al. **Genomics** 1997 Apr 15;41(2):177–84

Organization of the Fugu rubripes Hox clusters: evidence for continuing evolution of vertebrate Hox complexes. Aparicio S, et al. **Nat Genet** 1997 May;16(1):79–83

FISSION YEAST see **SCHIZOSACCHAROMYCES**

FISSURE IN ANO

Aetiology and treatment of anal fissure [see comments] Lund JN, et al. **Br J Surg** 1996 Oct;83(10):1335–44 (150 ref.). Comment in: Br J Surg 1997 Feb;84(2):279.

Re–examination of clinical manifestations and response to therapy of fissure-in-ano. Hananel N, et al. **Dis Colon Rectum** 1997 Feb;40(2):229–33

Anal fissure: new concepts in pathogenesis and treatment. Schouten WR, et al. **Scand J Gastroenterol Suppl** 1996; 218:78–81 (34 ref.)

COMPLICATIONS

Aetiology and treatment of anal fissure [letter; comment] Cotton MH. **Br J Surg** 1997 Feb;84(2):279. Comment on: Br J Surg 1996 Oct;83(10):1335–44.

DIAGNOSIS

Prospective evaluation of dynamic contrast enhanced magnetic resonance imaging in the evaluation of fistula in ano. Beckingham IJ, et al. **Br J Surg** 1996 Oct;83(10):1396–8

Anorectal disorders. Janicke DM, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):757–88 (83 ref.)

The use of glyceryl trinitrate in inexaminable patients with anal fissure. Larpent JL, et al. **Int J Colorectal Dis** 1996; 11(6):263

Genital herpes masquerading as anal fissures. Winceslaus J, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):276–7

[Anal fissure] Hager T. **Ther Umsch** 1997 Apr;54(4):190–2 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Treating anal fissure [editorial] Banerjee AK. **BMJ** 1997 Jun 7;314(7095):1638–9

Use of glyceryl trinitrate ointment in the treatment of anal fissure [letter] Edwards DP, et al. **Br J Surg** 1996 Nov; 83(11):1655

Local nitroglycerin for treatment of anal fissures: an alternative to lateral sphincterotomy? Bacher H, et al. **Dis Colon Rectum** 1997 Jul;40(7):840–5

One hundred cases of anal fissure treated with botulin toxin: early and long–term results. Jost WH.

Dis Colon Rectum 1997 Sep;40(9):1029–32

Glyceryl trinitrate is an effective treatment for anal fissure. Lund JN, et al. **Dis Colon Rectum** 1997 Apr;40(4):468–70

Pathophysiological aspects and clinical outcome of intra-anal application of isosorbide dinitrate in patients with chronic anal fissure. Schouten WR, et al. **Gut** 1996 Sep;39(3):465–9

A nonsurgical approach to chronic anal fissure. Scholefield JH, et al. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):181–6, 188 (10 ref.)

Topical treatment of chronic anal fissures. Miser WF. **J Fam Pract** 1997 Apr;44(4):338

The management of chronic fissure in ano with botulinum toxin [letter; comment] Moore AP. **J R Coll Surg Edinb** 1997 Aug;42(4):289. Comment on: J R Coll Surg Edinb 1996 Aug;41(4):235–8.

The use of botulinum toxin for anal fissure [letter; comment] Parikh VA. **J R Coll Surg Edinb** 1997 Aug;42(4):288–9. Comment on: J R Coll Surg Edinb 1996 Aug;41(4):235–8.

The management of chronic fissure in ano with botulinum toxin [letter; comment] Wannas HR. **J R Coll Surg Edinb** 1997 Aug;42(4):289–90. Comment on: J R Coll Surg Edinb 1996 Aug;41(4):235–8.

Glyceryl trinitrate ointment for chronic anal fissure [letter; comment] Herxheimer A. **Lancet** 1997 Feb 22; 349(9051):573. Comment on: Lancet 1997 Jan 4;349(9044):11–4.

A randomised, prospective, double-blind, placebo-controlled trial of glyceryl trinitrate ointment in treatment of anal fissure [see comments] Lund JN, et al. **Lancet** 1997 Jan 4;349(9044):11–4. Comment in: Lancet 1997 Feb 22;349(9051):573.

ETIOLOGY

What causes anal fissure? Soybel DI. **Gastroenterology** 1996 Oct;111(4):1154–5

[Etiology, pathogenesis and classification of anal fissure] Wehrli H. **Swiss Surg** 1996;(1):14–7 (19 ref.) (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Tuberculous perianal ulcers. Sarela AI, et al. **J R Soc Med** 1996 Oct;89(10):584

PATHOLOGY

Perianal abscess and fistula in ano in infancy and childhood: a clinicopathological study. al-Salem AH, et al. **Pediatr Pathol Lab Med** 1996 Sep-Oct;16(5):755–64

Endoanal magnetic resonance imaging versus endosonography. Stoker J, et al. **Radiol Med (Torino)** 1996 Dec;92(6):738–41

PHYSIOPATHOLOGY

Anal canal pressures are low in women with postpartum anal fissure. Corby H, et al. **Br J Surg** 1997 Jan;84(1):86–8

SURGERY

Technical failure of lateral sphincterotomy for the treatment of chronic anal fissure: a study using endoanal ultrasonography. Farouk R, et al. **Br J Surg** 1997 Jan; 84(1):84–5

Open vs. closed sphincterotomy for chronic anal fissure: long-term results. Garcia-Aguilar J, et al. **Dis Colon Rectum** 1996 Apr;39(4):440–3

Lateral internal sphincterotomy for fissure-in-ano—revisited. Hananel N, et al. **Dis Colon Rectum** 1997 May; 40(5):597–602

Resolution of chronic anal fissures after treatment of contiguous internal hemorrhoids with direct current probe. Machicado GA, et al. **Gastrointest Endosc** 1997 Feb; 45(2):157–62

[The surgical treatment of anal fissure] Arma S, et al. **Swiss Surg** 1996;(1):21–3 (Eng. Abstr.) **(Ger)**

[Surgical therapy of anal fissure] Blessing H. **Swiss Surg** 1996; (1):24–8 (Eng. Abstr.) **(Ger)**

[Recurrent high anal fistula: treatment with the use of seton] Tocchi A, et al. **G Chir** 1997 Jun-Jul;18(6-7):375–7 (Eng. Abstr.) **(Ita)**

[Combined outpatient surgical-cryotherapeutic treatment of anal fissures. Our experience] Maturanza M, et al. **Minerva Chir** 1997 Apr;52(4):393–5 (Eng. Abstr.) **(Ita)**

THERAPY

Anorectal disorders. Janicke DM, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):757–88 (83 ref.)

The management of infectious and noninfectious anorectal complications in patients with leukemia. North JH Jr, et al. **J Am Coll Surg** 1996 Oct;183(4):322–8

Endoscopic anal dilatation for fissure-in-ano: a new outpatient treatment modality. Pérez-Miranda M, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):265–72 **(Eng, Spa)**

[Anal fissure: conservative treatment] Vouillamoz D. **Swiss Surg** 1996;(1):18–20 (Eng. Abstr.) **(Fre)**

[Anal fissure. Possibilities for treatment] Giebel GD. **Med Monatsschr Pharm** 1996 Nov;19(11):330–3 (7 ref.) **(Ger)**

[Anal fissure] Hager T. **Ther Umsch** 1997 Apr;54(4):190–2 (Eng. Abstr.) **(Ger)**

[Controversies in anal endoscopic dilatation for fissure (letter)] Prieto Reyes MA, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):66–8 **(Spa)**

ULTRASONOGRAPHY

Endoanal magnetic resonance imaging versus endosonography. Stoker J, et al. **Radiol Med (Torino)** 1996 Dec;92(6):738–41

FISSURE SEALANTS see **PIT AND FISSURE SEALANTS**

FISSURES, DENTAL see **DENTAL FISSURES**

FISTULA

Giant right coronary artery aneurysm with fistulous connection to the coronary sinus: diagnosis and management. Shammas NW, et al. **Clin Cardiol** 1996 Jan; 19(1):74–6

Congenital extrahepatic portocaval shunts--the Abernethy malformation. Howard ER, et al. **J Pediatr Surg** 1997 Mar; 32(3):494–7 (24 ref.)

Urethro-vaso-cutaneous fistula in a 5-year-old child. Arat A, et al. **Pediatr Radiol** 1997 Jan;27(1):11–3

Skin care management of gastrointestinal fistulas. Dearlove JL. **Surg Clin North Am** 1996 Oct;76(5):1095–109

Spontaneous arterioenteric fistula after pancreas transplantation. Gritsch HA, et al. **Transplantation** 1997 Mar 27;63(6):903–4

[Mirizzi's syndrome] Siragusa G, et al. **Minerva Chir** 1997 Jan-Feb;52(1-2):97–102 (22 ref.) (Eng. Abstr.) **(Ita)**

[Fistulas in the ear--diagnosis and therapy] Wennmo C. **Lakartidningen** 1996 Dec 4;93(49):4545–8 (16 ref.) **(Swe)**

COMPLICATIONS

Colovenous fistula complicating diverticulitis: CT and radiographic findings. Rossmann MD, et al. **Abdom Imaging** 1997 Sep-Oct;22(5):513–5

Infected abdominal aortic aneurysm associated with a psoas abscess, aorto-duodenal and sigmoid fistulas. Case report and review of the literature. Louagie YA, et al. **Acta Chir Belg** 1997 Jan-Feb;97(1):39–43 (22 ref.)

Mondini dysplasia with recurrent meningitis. Lu MY, et al. **Acta Paediatr Sin** 1996 Jul-Aug;37(4):289–91

Perilymphatic fistula in teens and young adults: emphasis on preexisting sensorineural hearing loss. Fitzgerald DC. **Am J Otol** 1996 May;17(3):397–400

Massive air embolism with pulmonary arterio-bronchial fistula and ventricular septal defect. Simes D, et al. **Anaesth Intensive Care** 1997 Aug;25(4):420–2

Coronary fistula associated with double mitral valve disease. A case report. Ayala F, et al. **Arch Med Res** 1996 Autumn; 27(3):345–7

Massive pancreatic duct haemorrhage. Orr KB. **Aust N Z J Surg** 1996 Dec;66(12):843–5

Case report: abscess of the adductor muscles of the thigh--an unusual complication of Crohn's disease. Denton ER, et al. **Br J Radiol** 1996 Sep;69(825):865–6

Haemoptysis: a rare cause. Hynes JE, et al. **Br J Radiol** 1997 Mar;70:317–8

Aorto-left atrial fistula associated with left coronary artery origin anomaly and bicuspid aortic valve and aortic regurgitation: a case report [letter] San M, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):330

Aorto-left atrial fistula. A reversible cause of acute refractory heart failure. Archer TP, et al. **Chest** 1997 Mar; 111(3):828–31 (17 ref.)

Isolated gastric varices associated with spontaneous splenorenal shunt. Stewart FW, et al. **Dig Dis** 1996 May-Jun;14(3):209–10

A rare case of gastrointestinal hemorrhage: aortoesophageal fistula following repair of aortic dissection. Kirchgatterer A, et al. **Endoscopy** 1997 Feb;29(2):137–8

Unilateral lower limb hypertrophic osteoarthropathy due to aortic graft infection and aortoenteric fistula. Martínez JI, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):497–500 (23 ref.)

Rare causes of occult small intestinal bleeding, including aortoenteric fistulas, small bowel tumors, and small bowel ulcers. Bashir RM, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):709–38 (238 ref.)

Tubal implantation, spontaneous fistula and unicornuate uterus [letter] Gomibuchi H, et al. **Int J Gynaecol Obstet** 1996 Mar;52(3):275–6

Primary adenocarcinoma in the urethrorectal fistula. Takaki R, et al. **Int J Urol** 1997 Jan;4(1):97–8

Rupture of a dissecting aneurysm into the superior vena cava in Marfan's syndrome. Toyoda Y, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):411–3

Mitral homograft for tricuspid valve endocarditis complicating a congenital fistula between the right coronary artery and right ventricle. Hvass U, et al. **J Heart Valve Dis** 1996 Sep;5(5):564–6

Food embolus. Reynolds P, et al. **J Neurol Sci** 1997 Aug; 149(2):185–90

Acute thyroid abscess in infancy as a complication of pharyngeal fistula. el-Naggar M, et al. **J Otolaryngol** 1997 Apr;26(2):136–8

A rare complication after endoscopic resection of the prostate: osteitis pubis due to a prostate-symphysis fistula. Kats E, et al. **J Urol** 1997 Feb;157(2):624

Chronic bronchopleural fistula in conservatively-treated calcified fibrothorax. Sulzer MA, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):229–31

Vesicouterine fistula--variable clinical presentation. al-Rifaei M, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):287–9

Surgical management and treatment of sepsis associated with gastrointestinal fistulas. Rolandelli R, et al. **Surg Clin North Am** 1996 Oct;76(5):1111–22 (19 ref.)

Desmoid tumor-ureteral fistula in Gardner's syndrome. Richard HM 3rd, et al. **Urology** 1997 Jan;49(1):135–8

[Aortoduodenal fistula as the cause of gastrointestinal hemorrhage] Adamek HE, et al. **Leber Magen Darm** 1996 Nov;26(6):317–9 (Eng. Abstr.) **(Ger)**

[Coronary fistula associated with severe pulmonary stenosis and cianosis] Aoun NB, et al. **Arq Bras Cardiol** 1996 Mar; 66(3):157–60 (Eng. Abstr.) **(Por)**

[Primary aorto-enteric fistula associated with Takayasu disease (letter)] Pérez M, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):516 **(Spa)**

CONGENITAL

Aorto-left atrial fistula with bicuspid aortic valve and coronary artery origin anomaly. Topcuoğlu MS, et al. **Ann Thorac Surg** 1997 Mar;63(3):854–6

Three major coronary artery-to-left ventricular shunts: report of three cases and review of literature. Nawa S, et al. **Cardiovasc Intervent Radiol** 1997 Jul-Aug;20(4):300–4 (31 ref.)

Surgical treatment of coronary artery fistulae associated with other cardiovascular anomalies. Chen Y, et al. **Chin Med J (Engl)** 1996 May;109(5):393–8

Relationship between lower-lip fistulae and cleft lip and/or palate in Von der Woude syndrome. Onofre MA, et al. **Cleft Palate Craniofac J** 1997 May;34(3):261–5

Congenital psoriasiform erythrokeratodermia with cleidocranial dysplasia, urogenital anomalies and atresia ani. Watanabe K, et al. **Dermatology** 1996;192(4):368–72

Coronary artery fistula in children and adults: a review of 25 cases with long-term observations. Sunder KR, et al. **Int J Cardiol** 1997 Jan 3;58(1):47–53

[Congenital fistula of the lower lip. Apropos of 2 cases] Riquet-Bricard C, et al. **Rev Stomatol Chir Maxillofac** 1996; 97(4):209–16 (43 ref.) (Eng. Abstr.) **(Fre)**

[Congenital abnormalities of the prenasal space: glioma, fistulas and epidermoid cysts] Stoll W, et al. **Laryngorhinootologie** 1996 Dec;75(12):739–44 (Eng. Abstr.) **(Ger)**

[Coronary artery to ventricular communication] Endo S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):817–20 (20 ref.) **(Jpn)**

[Congenital coronary ventricular fistula] Kato H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):837–9 (14 ref.) **(Jpn)**

[Right coronary artery-right atrial fistula] Kumamoto H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):787–9 (13 ref.) **(Jpn)**

[Left coronary arterial-right atrium fistulae] Nakamura Y. **Ryoikibetsu Shokogun Shirizu** 1996;(12):821–4 (20 ref.) **(Jpn)**

[Valsalva fistula] Sugama M. **Ryoikibetsu Shokogun Shirizu** 1996;(13):326 (8 ref.) **(Jpn)**

[Congenital periauricular fistulas in children: diagnostic difficulties] Kruchinina IL, et al. **Vestn Otorinolaringol** 1996 Sep-Oct;(5):30 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Pelvic fistulas: appearances on MR images. Semelka RC, et al. **Abdom Imaging** 1997 Jan-Feb;22(1):91–5

Computer-assisted auscultation of a bronchopleurocutaneous fistula during general anesthesia. Manecke GR Jr, et al. **Anesth Analg** 1996 Oct;83(4):880–2

Pott's puffy tumour [letter] Bellaney GJ, et al. **Br J Dermatol** 1997 Jan;136(1):145–7

Imaging appearances of ileouterine fistula complicating recurrent adenocarcinoma of the rectum. Hession P, et al. **Br J Radiol** 1997 Apr;70:415–7

Magnetic resonance imaging in the evaluation of cerebrospinal fluid fistulae. Johnson DB, et al. **Clin Radiol** 1996 Dec;51(12):837–41

Aortoesophageal fistula of unusual location. da Fonseca J, et al. **Endoscopy** 1997 Feb;29(2):138–9

Pancreatic-pleural fistula demonstrated by endoscopic retrograde cholangiopancreatography. Ondrejka P, et al. **Endoscopy** 1996 Nov;28(9):784

Pancreaticopleural fistula: a case report. Verhaeghe W, et al. **Eur J Radiol** 1996 Sep;23(2):118–20

Video-assisted thoracic surgery in trauma patients [letter; comment] Villavicencio RT. **J Am Coll Surg** 1997 Aug; 185(2):197–8. Comment on: J Am Coll Surg 1997 Mar;184(3):316–24.

Gallbladder perforation with cholecystoantral fistula. Yang CC, et al. **J Clin Ultrasound** 1996 Nov-Dec;24(9):536–9

Pneumarthrosis of the temporomandibular joint: report of case. Schwartz HC, et al. **J Oral Maxillofac Surg** 1997 Mar;55(3):287–9

Case of the season. Infected false aneurysm of the aorta with aorto-enteric fistula. Kew J, et al. **Semin Roentgenol** 1996 Jul;31(3):182–4

Onset of uncomplicated cerebrospinal fluid fistula 27 years after head injury: case report. Salca HC, et al. **Surg Neurol** 1997 Feb;47(2):132–3

Amoebic liver abscess communicating with intrahepatic bile

ducts. Misra SP, et al. **Trop Doct** 1997 Jul;27(3):181–2
[Recurrent meningitis and spontaneous cerebrospinal fluid otorrhea] Zhou Q, et al.
Chung Hua Erh Pi Yen Hou Ko Tsa Chih 1995;30(5):261–3 (Eng. Abstr.) **(Chi)**
[Diagnosis of secondary aorto–intestinal fistula (letter; comment)] Schønheyder HC, et al. **Ugeskr Laeger** 1996 Dec 9;158(50):7256. Comment on: Ugeskr Laeger 1996 Aug 19;158(34):4771–2. **(Dan)**
[Right coronary–ventricular fistula. Diagnosis and course. Apropos of 2 cases] Kammoun S, et al.
Ann Cardiol Angeiol (Paris) 1997 Jan;46(1):33–7 (25 ref.) (Eng. Abstr.) **(Fre)**
[Postoperative hemobilia. Apropos of a case (letter)] Mselmi A, et al. **J Chir (Paris)** 1996;133(9–10):469–70 (Eng. Abstr.) **(Fre)**
[Pericranial sinus] Leblanc I, et al. **J Neuroradiol** 1994 Apr; 21(3):161–9 (Eng. Abstr.) **(Fre)**
[Congenital auricular fistula imitating otogenic complication] Kruk–Zagajewska A, et al. **Otolaryngol Pol** 1996; 50(6):622–7 (Eng. Abstr.) **(Pol)**
[Congenital periauricular fistulas in children: diagnostic difficulties] Kruchinina IL, et al. **Vestn Otorinolaringol** 1996 Sep–Oct;(5):30 (Eng. Abstr.) **(Rus)**
[Massive pleural effusion secondary to pancreatic–pleural fistula as first manifestation of chronic pancreatitis. Report of three cases] Molinuevo JL, et al. **Med Clin (Barc)** 1997 Jul 5;109(6):222–4 (Eng. Abstr.) **(Spa)**
[Myelographic diagnosis of an epidural arterio–venous fistula] Muñoz A, et al. **Rev Neurol** 1997 Aug;25(144):1203–6 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Prophylactic antibiotics for posttraumatic cerebrospinal fluid fistulae. A meta–analysis. Brodie HA.
Arch Otolaryngol Head Neck Surg 1997 Jul;123(7):749–52
Cyclosporin treatment of perianal fistulas in dogs. Mathews KA, et al. **Can Vet J** 1997 Jan;38(1):39–41
Pancreatico–pleural fistula: successful treatment with octreotide. Poddar U, et al. **Indian J Gastroenterol** 1995 Oct;14(4):145–6
Corpus cavernosum–spongiosum fistula after blunt pelvic trauma: successful resolution with digoxin. Seftel AD, et al. **J Urol** 1996 Nov;156(5):1769
[Use of collagen and gentamycin in the treatment of chronic soft tissue lesions] Sváb J, et al. **Rozhl Chir** 1997 Feb; 76(2):66–7 (Eng. Abstr.) **(Cze)**
[Clinical evaluation of factor XIII for postoperative stomal leakage and fistulae after gastrointestinal surgery] Ishibiki K. **Rinsho Byori** 1997 Feb;Suppl 104:17–24 (7 ref.) **(Jpn)**

EPIDEMIOLOGY

The epidemiology of genitourinary fistulae in Kumasi, Ghana, 1977–1992. Danso KA, et al.
Int Urogynecol J Pelvic Floor Dysfunct 1996;7(3):117–20
[Postoperative fistulas after gastrectomy: risk factors in relation to incidence and mortality] Degiuli M, et al.
Minerva Chir 1996 May;51(5):255–64 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Benign ulcer in a hiatus hernia complicated with a pericardial fistula. Oosterbosch L, et al. **Acta Gastroenterol Belg** 1996 Oct–Dec;59(4):248–50
Iatrogenic coronary septal artery–to–right ventricular fistula complicating percutaneous transluminal coronary angioplasty with spontaneous resolution. Youssef M, et al. **Am Heart J** 1997 Feb;133(2):260–2 (9 ref.)
Aortoesophageal conduit due to a foreign body. Jiraki K. **Am J Forensic Med Pathol** 1996 Dec;17(4):347–8
Hepatocolic fistula and lower GI bleeding in hepatoma. Berkelhammer C, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2625–6
Obstetric ureterouterine fistula: a case report. Lazarevski MB, et al. **Am J Obstet Gynecol** 1996 May;174(5):1657–8
Genital fistulas caused by diverticular disease of the sigmoid colon. Tancer ML, et al. **Am J Obstet Gynecol** 1996 May; 174(5):1547–50
Management of labyrinthine fistulae secondary to cholesteatoma. Herzog JA, et al. **Am J Otol** 1996 May; 17(3):410–5
Salpingocolonic fistula secondary to diverticulitis. Hain JM, et al. **Am Surg** 1996 Dec;62(12):984–6 (22 ref.)
Gastro–aortic fistula: an uncommon complication of Nissen fundoplication. Wasvary H, et al. **Am Surg** 1997 May; 63(5):455–8
Intra–abdominal abscess and tumor–enteric fistula formation: an unusual complication of chemotherapy for advanced testicular choriocarcinoma [letter] Stein ME, et al.
Ann Oncol 1996 Jul;7(5):536–7
Postpneumonectomy stump fistula in a ventilated patient. De Groot M, et al. **Ann Thorac Surg** 1997 Feb;63(2):552–4
Traumatic subarachnoid–pleural fistula [letter; comment] Fell SC. **Ann Thorac Surg** 1997 May;63(5):1511. Comment on: Ann Thorac Surg 1996 Dec;62(6):1622–6.
Successful management of secondary aortoesophageal fistula. Luketich JD, et al. **Ann Thorac Surg** 1996 Dec;62(6):1852–4 (11 ref.)
Traumatic subarachnoid–pleural fistula [see comments] Sarwal V, et al. **Ann Thorac Surg** 1996 Dec;62(6):1622–6 (26 ref.). Comment in: Ann Thorac Surg 1997 May;63(5):1511.
Ureterouterine fistula as a complication of an elective abortion. Lodh U, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):94–5
Pharyngo–cutaneous fistula following anterior cervical fusion. Jamjoom ZA. **Br J Neurosurg** 1997 Feb;11(1):69–74
Diagnosis and therapy of aortic prosthetic fistulas: trends over a 30–year experience. van Baalen JM, et al.
Br J Surg 1996 Dec;83(12):1729–34
An unusual prostatocutaneous fistula. Price AJ, et al.
Br J Urol 1997 Sep;80(3):509–10
Vesico–adnexal fistula following endometriosis of an ovary. Yazawa K, et al. **Br J Urol** 1997 Apr;79(4):658
Vesico–uterine fistula—a rare complication of vacuum extraction in a patient with previous caesarean section. Yip SK, et al. **Br J Urol** 1997 Sep;80(3):502–3
Laryngeal fistula following electrical burn. Sharma RK, et al. **Burns** 1997 May;23(3):265–7
Re: Fallopian tube communication after percutaneous abdominal abscess drainage [letter] Herskowitz MM, et al.
Cardiovasc Intervent Radiol 1997 Sep–Oct;20(5):409
Delayed appearance of traumatic aorto–right ventricular fistula [letter; comment] Cheng TO.
Cathet Cardiovasc Diagn 1995 Dec;36(4):375. Comment on: Cathet Cardiovasc Diagn 1995 Jun;35(2):136–8.
LAD–right ventricular fistula complicating PTCA: another case [see comments] Marques KM, et al.
Cathet Cardiovasc Diagn 1997 Sep;42(1):34–6. Comment in: Cathet Cardiovasc Diagn 1997 Sep;42(1):37.
Traumatic thoracic fistulas. Sebastian MW, et al.
Chest Surg Clin N Am 1997 May;7(2):385–400 (33 ref.)
Delayed presentation of a mitral annular perforation complicating Staphylococcus aureus infective endocarditis [letter; comment] Baumgartner F, et al. **Clin Cardiol** 1996 Aug;19(8):605. Comment on: Clin Cardiol 1992 Oct;15(10):777–80.
Pharyngocutaneous fistula following total laryngectomy and post–operative vomiting. Tomkinson A, et al.
Clin Otolaryngol 1996 Aug;21(4):369–70
What happens to a pelvic pouch when a fistula develops? Ozuner G, et al. **Dis Colon Rectum** 1997 May;40(5):543–7
Labyrinthine fistula from cholesteatoma: surgical management. Pulec JL. **Ear Nose Throat J** 1996 Mar; 75(3):143–8
Massive hemorrhage caused by a perforating Gianturco–Z stent resulting in an aortoesophageal fistula. Siersema PD, et al. **Endoscopy** 1997 Jun;29(5):416–20 (44 ref.)
Late esophageal fistula complicating early postpneumonectomy empyema. Magistrelli P, et al.
Eur J Cardiothorac Surg 1996;10(9):803–5
Aorto–colonic fistula as a late complication of colon interposition for oesophageal atresia. Debras B, et al.
Eur J Pediatr Surg 1996 Oct;6(5):310–1
Porta choledochal fistula: an unusual complication of a cholangiocarcinoma arising from a type I choledochal cyst. Kale IT, et al. **Eur J Surg Oncol** 1997 Apr;23(2):188–9
Gastropleural fistula due to gastric lymphoma presenting as tension pneumothorax and empyema. Warburton CJ, et al.
Eur Respir J 1997 Jul;10(7):1678–9
Pericardioesophageal fistula associated with metallic stent placement. Dennert B, et al. **Gastrointest Endosc** 1997 Jan; 45(1):82–4
Adenocarcinoma of the ileum with an enterotubal fistula presenting as an adnexal mass. Hamid AM, et al.
Gynecol Oncol 1997 Feb;64(2):270–3
Hepatic artery–biliary fistula during infusion chemotherapy. Noda M, et al. **Hepatogastroenterology** 1996 Sep–Oct; 43(11):1387–9
Abdominal wall sinus: a late complication of gallstone spillage during laparoscopic cholecystectomy. Graham MD, et al. **HPB Surg** 1997;10(3):163–4
Vesicouterine fistula—an analysis of 24 cases from Poland. Jóźwik M, et al. **Int J Gynaecol Obstet** 1997 May; 57(2):169–72
Vesicouterine fistula after a previous low vertical cesarean section (DeLee incision). Al Nuaim LA, et al.
Int J Gynaecol Obstet 1996 Nov;55(2):161–2
Severe cervical chyle fistula after radical neck dissection. Rollon A, et al. **Int J Oral Maxillofac Surg** 1996 Oct; 25(5):363–5
Esophagomediastinal fistula as a complication of tuberculous mediastinal lymphadenitis. Ohtake M, et al. **Intern Med** 1996 Dec;35(12):984–6
Fistular complication of gastric ectopia in the proximal oesophagus and pyriform sinus. Guido E, et al.
Ital J Gastroenterol 1996 Apr;28(3):160–2
Fistula between the hip and the sigmoid colon after total hip arthroplasty. A case report. Levin JS, et al.
J Bone Joint Surg Am 1997 Aug;79(8):1240–2
Traumatic carotid cavernous sinus fistula following a gunshot wound to the face. Wallick K 4th, et al. **J Emerg Med** 1997 Jan–Feb;15(1):23–9 (17 ref.)
Pleurocutaneous fistula as a complication of radiation treatment in locally advanced breast cancer. Samuel LM, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):138–9
Prostatic cutaneous fistula after radiation therapy for localized prostate cancer. Feuer–Regan A, et al. **J Urol** 1997 Apr;157(4):1367–8
Biliary venous fistula: an unusual complication of fine–needle aspiration biopsy of the liver. Patel RI, et al.
J Vasc Interv Radiol 1995 Nov–Dec;6(6):953–6
'Menouria'—a presentation of vesicouterine fistula. Bhutta SZ. **JPMA J Pak Med Assoc** 1996 Jul;46(7):159–61 (20 ref.)
Combined chylous neck fistula, chylothorax and chyloperitoneum after transhiatal esophagectomy. Tytgat SH, et al. **Lymphology** 1996 Dec;29(4):151–4
Early bronchopleural fistula after lung resection. Van Schil PE, et al. **Monaldi Arch Chest Dis** 1996 Oct;51(5):421–3
Traumatic indirect carotid–cavernous fistula: report of two cases. Jacobson BE, et al. **Neurosurgery** 1996 Dec; 39(6):1235–7; discussion 1237–8
Fistula of stapes footplate caused by pulsatile cerebrospinal fluid in inner ear malformation. Hoppe F, et al.
ORL J Otorhinolaryngol Relat Spec 1997 Mar–Apr; 59(2):115–8
Aortoesophageal fistula. Report of one case complicating foreing body ingestion with considerations about pathogenesis. Sonzogni A, et al. **Pathologica** 1996 Oct; 88(5):447–8
Biliary venous fistula from umbilical catheter placement. Mogbo KI, et al. **Pediatr Radiol** 1997 Apr;27(4):333–5
Adrenobronchial fistula complicating a neonatal adrenal abscess: treatment by percutaneous aspiration and antibiotics. Pointe HD, et al. **Pediatr Radiol** 1997 Feb; 27(2):184–5
Fistula formation and repair after palatal closure: an institutional perspective. Emory RE Jr, et al.
Plast Reconstr Surg 1997 May;99(6):1535–8
Pancreaticopleural fistula: a rare complication of chronic pancreatitis. Wakefield S, et al. **Postgrad Med J** 1996 Feb; 72(844):115–6
Umbilical sinus tract with gallstone extrusion after laparoscopic cholecystectomy. Pohl D, et al.
Surg Endosc 1997 Aug;11(8):846–7
Primary aortoduodenal fistula caused by duodenal tuberculosis without an abdominal aortic aneurysm: report of a case. Kodaira Y, et al. **Surg Today** 1997;27(8):745–8
Aortobronchial fistula secondary to chronic post–traumatic thoracic aneurysm. Fernández González AL, et al.
Tex Heart Inst J 1996;23(2):174–7
Asymptomatic calculous pyelonephritis with cutaneous–renal–broncho–pleural fistula. Lautin R, et al.
Urology 1996 Dec;48(6):928–9
[Spontaneous cutaneous cysto–hepato–bronchial fistula caused by a hydatid cyst. Apropos of a case (letter)] Harandou M, et al. **J Chir (Paris)** 1997 May;134(1):31–4 (Eng. Abstr.) **(Fre)**
[Secondary aorto–digestive fistula (letter)] Andreu MR, et al. **Presse Med** 1997 Feb 22;26(5):215 **(Fre)**
[Gases and damages] André M, et al. **Rev Med Interne** 1996; 17(8):699–700 **(Fre)**
[Pseudoaneurysm of the right hepatic artery with an arterio–biliary fistula]
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jun;166(6):586–7 **(Ger)**
[Aorto–enteric fistula: current information on diagnostic and therapeutic procedures] Bianchi G, et al. **G Chir** 1997 Jun–Jul;18(6–7):378–81 (Eng. Abstr.) **(Ita)**
[Vesico–acetabular fistula occurring 10 years after total hip replacement] Hamano S, et al. **Hinyokika Kiyo** 1996 Oct; 42(10):743–5 (6 ref.) (Eng. Abstr.) **(Jpn)**
[Pharyngo–cutaneous fistula after total laryngectomy] Nakamizo M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Feb;100(2):213–9 (Eng. Abstr.) **(Jpn)**
[Analysis of risk factors for development of bronchopleural fistula after pneumonectomy for lung cancer] Haraguchi S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1835–9 (Eng. Abstr.) **(Jpn)**
[Report of a case. Late enteral graft erosion is a rare condition] Buntzen S, et al. **Lakartidningen** 1996 Oct 2; 93(40):3457–9 **(Swe)**

HISTORY

Fistula surgery: past, present and future directions. Elkins TE. **Int Urogynecol J Pelvic Floor Dysfunct** 1997;8(1):30–5
Victor Goodhill, MD, and perilymph fistula: reflecting on the man and the controversy. Bailey BJ, et al.
Laryngoscope 1997 May;107(5):580–4

MICROBIOLOGY

Internal fistula formation: an unusual complication of mycetoma. Fahal AH, et al.
Trans R Soc Trop Med Hyg 1996 Sep–Oct;90(5):550–2

MORTALITY

Death in custody due to a colopericardial fistula. Huddleston DJ, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):194–8

PATHOLOGY

Rectovesical fistula: a possible cause of postnatal lethality in F1 Dh/+ male mice between DDD female and DH (Dh/+) male. Suto J, et al. **Exp Anim** 1996 Oct; 45(4):399–402
Diagnosis and treatment of branchial cleft cysts and fistulae. A retrospective study of 183 patients. Agaton–Bonilla FC, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):449–52
Bronchial–pulmonary artery fistula after unilateral lung transplantation: a case report. Kessler R, et al.
J Heart Lung Transplant 1997 Jun;16(6):674–7
Images in clinical medicine. Aortoenteric fistula. Abernethy W, et al. **N Engl J Med** 1997 Jan 2;336(1):27

Update on idiopathic perilymphatic fistulas. Kohut RI, et al. **Otolaryngol Clin North Am** 1996 Apr;29(2):343–52 (15 ref.)

PHYSIOPATHOLOGY

Perilymphatic fistula in teens and young adults: emphasis on preexisting sensorineural hearing loss. Fitzgerald DC. **Am J Otol** 1996 May;17(3):397–400

Histopathology of labyrinthine fistulae in chronic otitis media with clinical implications. Jang CH, et al. **Am J Otol** 1997 Jan;18(1):15–25

Natural history of bronchopleural fistula after pneumonectomy: a review of 96 cases. Hollaus PH, et al. **Ann Thorac Surg** 1997 May;63(5):1391–6; discussion 1396–7

Pharyngocutaneous fistula following total laryngectomy and post–operative vomiting. Tomkinson A, et al. **Clin Otolaryngol** 1996 Aug;21(4):369–70

Child's tuberculous lymphadenitis with fistula evoked by the BCG stem. Jakubiková J, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):85–90

A large right coronary artery–left ventricle fistula with mild volume overload on the left ventricle owing to its capacitive action—pulsed Doppler and cineangiographic analyses in a patient. Oka T, et al. **Jpn Circ J** 1997 Aug; 61(8):719–23

Transvenous embolization of traumatic carotid cavernous fistula with mechanical detachable coils. Irie K, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):28–30

[Petronasal fistula caused by the epidermal cyst of the cerebellopontine angle region] Bażowski P, et al. **Otolaryngol Pol** 1996;50(2):173–7 (Eng. Abstr.) **(Pol)**

[Congenital auricular fistula imitating otogenic complication] Kruk–Zagajewska A, et al. **Otolaryngol Pol** 1996; 50(6):622–7 (Eng. Abstr.) **(Pol)**

[Low flow cavernous sinus fistula. Treatment by highly selective embolization] Lanzas MG, et al. **Rev Neurol** 1996 Apr;24(128):452–5 (Eng. Abstr.) **(Spa)**

[Carotid cavernous fistula: endovascular therapy] Macho JM, et al. **Rev Neurol** 1996 Jan;24(125):59–64 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Pyogenic liver abscesses complicated with abscess–duodenum fistula in a child: report of one case. Lin CC, et al. **Acta Paediatr Sin** 1996 Jan–Feb;37(1):45–7

Aortoduodenal fistula: appearances on computed tomography. Daly CA, et al. **Aust N Z J Surg** 1997 Oct; 67(10):745–6

Transvaginal leak of peritoneal dialysate demonstrated by CT peritoneography. Bradley AJ, et al. **Br J Radiol** 1997 Jun;70(834):652–3

Three–dimensional CT demonstration of intrahepatic portosystemic venous shunt draining into the inferior vena cava. Kanematsu M, et al. **Br J Radiol** 1997 Apr;70:418–20

Hydatid cyst of the liver communicating with the left colon. Lo Casto A, et al. **Br J Radiol** 1997 Jun;70(834):650–1

Multiple coronary artery–left ventricular fistulae: haemodynamic quantification by intracoronary Doppler ultrasound. Meissner A, et al. **Heart** 1997 Jul;78(1):91–3

A woman with anginal pain despite normal coronary arteries. Javeed N, et al. **Hosp Pract (Off Ed)** 1997 Sep 15; 32(9):215–6

Colosalpingeal fistula: a rare complication of diverticular disease of the colon. Parikh VA. **J Clin Gastroenterol** 1997 Apr;24(3):187–8

Case report. Aortic pseudoaneurysm with aortobronchial fistula: diagnosis with CT angiography. Ferretti GR, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):975–8 (8 ref.)

Images in hepatology. Large splenorenal shunt in portal venous obstruction. Dhiman RK, et al. **J Hepatol** 1997 Jul; 27(1):216

Dural caroticocavernous fistula with both ophthalmic arteries arising from middle meningeal arteries. Watanabe A, et al. **Neuroradiology** 1996 Nov;38(8):806–8

Intrahepatic portosystemic venous shunt: report of two cases assessed by helical computed tomography. Nagafuchi Y, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1132–5

Radiologic investigation and treatment of gastrointestinal fistulas. Thomas HA. **Surg Clin North Am** 1996 Oct; 76(5):1081–94 (46 ref.)

Aortotracheal fistula: demonstration by computerized tomography. Elmadbouh HM, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):142–4

[Coronary artery–cardiac fistulas. Review of the literature. Two accidentally discovered cases] Jazra C, et al. **J Med Liban** 1995;43(3):162–5 (25 ref.) (Eng. Abstr.) **(Fre)**

[Hepatic abscess with hepato–bronchial fistula] Blayac PM, et al. **J Radiol** 1997 Jun;78(6):469–71 **(Fre)**

[2–phase contrast for the CT imaging of fistulae] Malzfeldt EJ, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):87–91 (Eng. Abstr.) **(Ger)**

[What is your diagnosis? Persistent incomplete omphalomesenteric duct] Kleeman D, et al. **Schweiz Rundsch Med Prax** 1996 Dec 17;85(51–52):1637–40 **(Ger)**

RADIONUCLIDE IMAGING

Lymphoscintigraphy pre– and post–surgical lymphatic leak repair. Andrews JT, et al. **Australas Radiol** 1996 Feb; 40(1):19–21

Diagnosis and localization of bronchopulmonary air leaks using ventilation scintigraphy. Mark JB, et al. **Chest** 1997 Feb;111(2):286–9

"Double fistula" bronchopleural and pleurocutaneous during radioxenon study. Cronin EB, et al. **Clin Nucl Med** 1997 Apr;22(4):241–2

Cerebrospinal fluid fistula to the maxillary bone demonstrated by In–111 DTPA cisternography. Lampreave JL, et al. **Clin Nucl Med** 1997 Jan;22(1):57–8

RADIOTHERAPY

Laser treatment of endobronchial lesions. Dullye KK, et al. **Anesthesiology** 1997 Jun;86(6):1387–90

SURGERY

Uretero–arterial fistula: two observations. Van Damme H, et al. **Acta Chir Belg** 1997 Jun;97(3):133–6

Osteoplastic frontal sinusotomy and extradural microsurgical repair of frontobasal cerebrospinal fluid fistulas. Mayfrank L, et al. **Acta Neurochir (Wien)** 1996;138(3):245–54

Dural arteriovenous fistulas including the transverse and sigmoid sinuses: results of treatment in 30 cases. Olteanu–Nerbe V, et al. **Acta Neurochir (Wien)** 1997; 139(4):307–18

Labyrinthine fistulae: a retrospective analysis. Vanclooster C, et al. **Acta Otorhinolaryngol Belg** 1997;51(2):119–21

Management of labyrinthine fistulae secondary to cholesteatoma. Herzog JA, et al. **Am J Otol** 1996 May; 17(3):410–5

Endoscopic management of cerebrospinal fluid fistulae and traumatic cephalocoele. Sethi DS, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):724–7

Aerocele: an unusual complication of tracheocutaneous fistula repair. Rosbe KW, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):994–5

Technique for early bronchopleural fistula repair after lung resection [letter] Grunenwald D, et al. **Ann Thorac Surg** 1997 Apr;63(4):1214–5

Repair of aortobronchial fistula using extraanatomic grafts and hypothermic arrest. Lawrence WA, et al. **Ann Thorac Surg** 1997 Apr;63(4):1158–60

Coronary artery fistulas in infants and children: a surgical review and discussion of coil embolization. Mavroudis C, et al. **Ann Thorac Surg** 1997 May;63(5):1235–42

Repair of aortoesophageal fistula after aortic grafting. Wickstrom PH, et al. **Ann Thorac Surg** 1997 Jul;64(1):253–5

Successful management of an aortoesophageal fistula using a cryopreserved arterial allograft. Debras B, et al. **Ann Vasc Surg** 1996 May;10(3):292–6 (24 ref.)

Third branchial anomalies. Avoiding recurrences. Edmonds JL, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr; 123(4):438–41

Management of microfistula following pulmonary resection. Gall SA Jr, et al. **Chest Surg Clin N Am** 1996 Aug; 6(3):543–65 (53 ref.)

Management of tracheoinnominate artery fistula. Wright CD. **Chest Surg Clin N Am** 1996 Nov;6(4):865–73 (17 ref.)

Secondary cleft deformities. Folk SN, et al. **Clin Plast Surg** 1997 Jul;24(3):599–611 (32 ref.)

Transient healing of TIPS–induced biliovenous fistula by PTFE–covered stent graft. Spahr L, et al. **Dig Dis Sci** 1996 Nov;41(11):2229–32

Labyrinthine fistula from cholesteatoma: surgical management. Pulec JL. **Ear Nose Throat J** 1996 Mar; 75(3):143–8

Closure of a bronchopleural fistula by midsternal approach in three patients with previous aortocoronary bypass grafting. Barenbrug PJ, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):141–3

Surgical treatment of a fistula between the right pulmonary artery and the left atrium: presentation of two cases and review of literature. Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1056–61 (58 ref.)

Reconstruction of urethrovaginal fistula and vaginal atresia in an adolescent girl after an abdominoperineal–vaginal pull–through procedure. Creatsas G, et al. **Fertil Steril** 1997 Sep;68(3):556–9

Free gastro–omental flap reconstruction of the complex, irradiated pharyngeal wound. Carlson GW, et al. **Head Neck** 1997 Jan;19(1):68–71 (11 ref.)

Aortoduodenal fistula. Two case reports and a review of the literature. Capaldo GR, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):567–70

Surgical management of endocarditis–induced aorto–atrial and aorto–ventricular fistula: a new technique. Gharagozloo F, et al. **J Cardiovasc Surg (Torino)** 1997 Apr; 38(2):131–5

Partial thyroidectomy and selective neck dissection in the management of pyriform sinus fistulae. Elahi MM, et al. **J Otolaryngol** 1997 Feb;26(1):57–63

Surgical strategy for the treatment of pyriform sinus fistula. Kubota M, et al. **J Pediatr Surg** 1997 Jan;32(1):34–7

Surgically correcting a vesicouterine fistula with a myouterine flap. A case report. Char D, et al. **J Reprod Med** 1997 Jun;42(6):372–4

Traumatic and perilymphatic fistula PLF [letter; comment] Lehrer JF, et al. **J Trauma** 1997 Feb;42(2):346–7. Comment on: J Trauma 1996 Mar;40(3):488–96.

Treatment of impotence resulting from internal urethrotomy. Chen GL, et al. **J Urol** 1997 Aug;158(2):542

Autologous vein–covered stent for the endovascular management of an iliac artery–ureteral fistula: case report and review of the literature. Kerns DB, et al. **J Vasc Surg** 1996 Oct;24(4):680–6 (46 ref.)

Secondary aortoesophageal fistula. Pipinos II, et al. **J Vasc Surg** 1997 Jul;26(1):144–9 (21 ref.)

In situ repair of aortobronchial, aortoesophageal, and aortoenteric fistulae with cryopreserved aortic homografts. Vogt PR, et al. **J Vasc Surg** 1997 Jul;26(1):11–7

Congenital coronary artery fistula—surgical results and late changes in coronary artery aneurysm. Miyamura H, et al. **Jpn Circ J** 1995 Dec;59(12):786–9

Transnasal endoscopic repair of cranionasal fistulae: a refined technique with long–term follow–up. Burns JA, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1080–3

Microvascular access in the multiply operated neck: thoracodorsal transposition. Dolan R, et al. **Laryngoscope** 1996 Nov;106(11):1436–7

Endoscopic repair of cerebrospinal fluid fistulae and encephaloceles. Lanza DC, et al. **Laryngoscope** 1996 Sep; 106(9 Pt 1):1119–25

Transvenous embolization of traumatic carotid cavernous fistula with mechanical detachable coils. Irie K, et al. **Minim Invasive Neurosurg** 1996 Mar;39(1):28–30

The use of processed pericardium in the repair of corneo–scleral fistulas. Sibayan SA, et al. **Ophthalmic Surg Lasers** 1997 Apr;28(4):334–5

Treatment of long–standing thoracostoma and bronchopleural fistula without pulmonary resection in high risk patients. Francel TJ, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1046–53

Factors influencing outcome in patients with gastrointestinal fistula. Campos AC, et al. **Surg Clin North Am** 1996 Oct; 76(5):1191–8 (37 ref.)

Surgical management and treatment of esophageal fistula. Fernando HC, et al. **Surg Clin North Am** 1996 Oct; 76(5):1123–35 (36 ref.)

The surgical management of aortoenteric fistulas. Montgomery RS, et al. **Surg Clin North Am** 1996 Oct; 76(5):1147–57 (54 ref.)

Video–assisted thoracoscopic closure of postpneumonectomy bronchopleural fistulas. Saw E, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):73–6

Onset of uncomplicated cerebrospinal fluid fistula 27 years after head injury: case report. Salca HC, et al. **Surg Neurol** 1997 Feb;47(2):132–3

Closure of a gastric tube–tracheal fistula by transposition of a pedicled sternocleidomastoid muscle flap. Sakamoto K, et al. **Surg Today** 1997;27(2):181–5

Open window thoracostomy in the treatment of esophageal or bronchopleural fistula with advanced mediastinitis and septic shock. Bauwens K, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):308–10

Unsuccessful omentopexy in thoracic surgery. Yokomise H, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):145–8

[Aorto–duodenal fistula—direct suture and pedicled omentum flap–plasty] Friedrich J, et al. **Zentralbl Chir** 1997;122(7):565–8; discussion 568 (Eng. Abstr.) **(Ger)**

[The treatment of bronchopleural fistulae due to bronchial dehiscence by chest wall interventions. The authors' personal experience] Biraghi T, et al. **Minerva Chir** 1997 Apr;52(4):503–8 (Eng. Abstr.) **(Ita)**

[A case of uretero–aortic fistula] Awakura Y, et al. **Hinyokika Kiyo** 1997 Apr;43(4):299–301 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Vesicouterine fistula: a case report] Tanaka K, et al. **Hinyokika Kiyo** 1996 Aug;42(8):601–3 (Eng. Abstr.) **(Jpn)**

[Management of aortoesophageal fistula due to thoracic aortic aneurysm] Sakurai T, et al. **Kyobu Geka** 1996 Sep; 49(10):815–20 (16 ref.) (Eng. Abstr.) **(Jpn)**

[An experience with omentopexy for the repair of postoperative bronchopleural fistula] Takenouchi N, et al. **Kyobu Geka** 1997 Mar;50(3):243–6 (Eng. Abstr.) **(Jpn)**

[A case of anastomotic aneurysm–enteric fistula] Takiguchi M, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):580–3 (Eng. Abstr.) **(Jpn)**

[A case of empyema with a bronchopleural fistula treated by a pedicle muscle flap with the thick parietal pleura] Yamamoto H, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun; 98(6):576–9 (Eng. Abstr.) **(Jpn)**

[A case of total cavopulmonary connection with preceding tricuspid valve closure in pulmonary atresia and intact ventricular septum, right ventricular–coronary artery fistulae, and coronary artery stenoses] Cho Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1929–34 (Eng. Abstr.) **(Jpn)**

[The use of free rectus abdominis myocutaneous flap to close the empyema space with alveolar fistula—a case report] Tsuji H, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):297–300 (Eng. Abstr.) **(Jpn)**

[Chronic semi–invasive aspergillosis with broncho–pleural fistula treated with itraconazole and surgically] Nalepa P, et al. **Pneumonol Alergol Pol** 1996;64(7–8):472–7 (Eng. Abstr.) **(Pol)**

[Reconstruction of the anterior cranial base with a frontal muscle flap in cerebrospinal fluid fistulae] Costa H, et al. **Acta Med Port** 1997 Jan;10(1):19–26 (Eng. Abstr.) **(Por)**

[A coronary–right ventricular fistula of the heart] Zorin AB, et al. **Vestn Khir Im I I Grek** 1996;155(3):71–2 **(Rus)**

[Symptomatic treatment of a tracheogastric neoplastic fistula

with an intragastric autoexpandable prosthesis (letter)] De Tomás Palacios J, et al. **Rev Esp Enferm Dig** 1996 Oct; 88(10):712–3 **(Spa)**

[Carotid cavernous fistula: endovascular therapy] Macho JM, et al. **Rev Neurol** 1996 Jan;24(125):59–64 (Eng. Abstr.) **(Spa)**

THERAPY

Biliary–pleural fistulas without biliary obstruction: percutaneous catheter management. Feld R, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):381–3

Closure of a bronchopleural fistula using decalcified human spongiosa and a fibrin sealant. Baumann WR, et al. **Ann Thorac Surg** 1997 Jul;64(1):230–3

Which stent to use for tracheobronchial stenoses: metallic or silicone? [letter; comment] Yim AP, et al. **Ann Thorac Surg** 1997 May;63(5):1512–3. Comment on: Ann Thorac Surg 1996 Sep;62(3):844–7.

Acute exophthalmos during treatment of a cavernous sinus–dural fistula through the superior ophthalmic vein [letter; comment] Devoto MH, et al. **Arch Ophthalmol** 1997 Jun;115(6):823–4. Comment on: Arch Ophthalmol 1996 Jun;114(6):707–14.

Technique for rapid control of bleeding from an aortoenteric fistula. Loftus IM, et al. **Br J Surg** 1997 Aug;84(8):1114

Delayed presentation of post–traumatic internal pudendal arterial–urethral fistula, with successful embolization as therapy. Borgaonkar SS, et al. **Br J Urol** 1997 Mar; 79(3):486–7

Lung ventilation and bronchopleural fistula [letter] McGuive GP. **Can J Anaesth** 1996 Dec;43(12):1275–6

The clinician's perspective on pneumothorax management. Baumann MH, et al. **Chest** 1997 Sep;112(3):822–8

Management of bronchopleural fistula with a variable–resistance valve and a single ventilator. Carvalho P, et al. **Chest** 1997 May;111(5):1452–4

Management of postpneumonectomy empyema and bronchopleural fistula. Deschamps C, et al. **Chest Surg Clin N Am** 1996 Aug;6(3):519–27 (34 ref.)

Management of late postpneumonectomy empyema and bronchopleural fistula. Wain JC. **Chest Surg Clin N Am** 1996 Aug;6(3):529–41 (32 ref.)

Treatment of esophagorespiratory fistulas with a polyurethane–covered self–expanding metallic mesh stent. Macken E, et al. **Gastrointest Endosc** 1996 Sep;44(3):324–6

Systematic approach to the treatment of chylous leakage after neck dissection. de Gier HH, et al. **Head Neck** 1996 Jul–Aug;18(4):347–51

Detachable balloon occlusion of vascular malformations in young patients. Sreeram N, et al. **Int J Cardiol** 1996 Oct 11;56(2):119–24

Transcatheter embolization of coronary artery fistula with controlled release coils. Quek SC, et al. **J Paediatr Child Health** 1996 Dec;32(6):542–4 (22 ref.)

Endovascular stent–graft exclusion of an aortobronchial fistula. Chuter TA, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):357–9

Transhepatic embolization of a portohepatic venous fistula. Stroz P, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):705–7

Phrenic nerve paralysis after doxycycline sclerotherapy for chylous fistula. Kirse DJ, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):680–3

Malignant esophageal obstruction and esophagorespiratory fistula: palliation with a polyethylene–covered Z–stent. Saxon RR, et al. **Radiology** 1997 Feb;202(2):349–54

Pseudomeningocele/CSF fistula in a patient with lumbar spinal implants treated with epidural blood patch and a brief course of closed subarachnoid drainage. A case report. McCormack BM, et al. **Spine** 1996 Oct 1;21(19):2273–6

Surgical management and treatment of gastric and duodenal fistulas. Chung MA, et al. **Surg Clin North Am** 1996 Oct; 76(5):1137–46 (34 ref.)

General management of gastrointestinal fistulas. Recognition, stabilization, and correction of fluid and electrolyte imbalances. Foster CE 3rd, et al. **Surg Clin North Am** 1996 Oct;76(5):1019–33 (60 ref.)

Nutritional management of patients with gastrointestinal fistulas. Meguid MM, et al. **Surg Clin North Am** 1996 Oct; 76(5):1035–80 (114 ref.)

Endoscopic management of biliary pleural fistula. Kumar N, et al. **Trop Gastroenterol** 1995 Jul–Sep;16(3):40–2

[Congenital coronary–cardiac fistula in children. Effects of surgical occlusion and percutaneous embolization] Aggoun Y, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):605–9 (Eng. Abstr.) **(Fre)**

[Value of detachable silicone balloon in the closure of coronary artery fistula. Apropos of 3 cases] Godart F, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):611–6 (28 ref.) (Eng. Abstr.) **(Fre)**

[Blood patch therapy of the perilymphatic fistulas—an experimental study] Shinohara T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Aug;99(8):1104–9 (Eng. Abstr.) **(Jpn)**

[Obturation with an elastic balloon—the authors' procedure for the conservative treatment of external postoperative digestive fistulae] Georgescu I, et al. **Chirurgia (Bucur)** 1996 Jul–Aug;45(4):207–12 (Eng. Abstr.) **(Rum)**

[Selective arterial embolization in the treatment of posttraumatic intrahepatic arteriobiliary fistulae] Verkhovskiĭ VS, et al. **Vestn Khir Im I I Grek** 1996; 155(2):49–50 **(Rus)**

ULTRASONOGRAPHY

Transesophageal echocardiography in the diagnosis and management of a coronary artery fistula. Lowson SM, et al. **Anesth Analg** 1996 Nov;83(5):1117–9

Diagnosis of a persistent coronary fistula after ventricular septal defect patch closure. Scott CH, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):573–5

Doppler color imaging recognition of CSF leakages after spinal surgery. Meuwly JY, et al. **J Clin Ultrasound** 1996 Mar–Apr;24(3):151–3

Prenatal diagnosis of ventriculo–coronary communications in a second–trimester fetus using transvaginal and transabdominal color Doppler sonography. Chaoui R, et al. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):194–7

VETERINARY

Utero–cecal fistula in a doe. Angelos JA, et al. **Can Vet J** 1996 Oct;37(10):619–20

Cyclosporin treatment of perianal fistulas in dogs. Mathews KA, et al. **Can Vet J** 1997 Jan;38(1):39–41

Association of perianal fistula and colitis in the German shepherd dog: response to high–dose prednisone and dietary therapy. Harkin KR, et al. **J Am Anim Hosp Assoc** 1996 Nov–Dec;32(6):515–20

Lateral exploration of fistulas developing after total ear canal ablations: 10 cases (1989–1993). Holt D, et al. **J Am Anim Hosp Assoc** 1996 Nov–Dec;32(6):527–30

Feline portosystemic shunts. Schunk CM. **Semin Vet Med Surg (Small Anim)** 1997 Feb;12(1):45–50 (12 ref.)

FITC see **FLUORESCEIN–5–ISOTHIOCYANATE**

FIV see **IMMUNODEFICIENCY VIRUS, FELINE**

FIXATION DEVICES, EXTERNAL see **EXTERNAL FIXATORS**

FIXATION DEVICES, INTERNAL see **INTERNAL FIXATORS**

FIXATION DISPARITY see **VISION DISPARITY**

FIXATION, OCULAR

Voluntary suppression of caloric nystagmus under fixation of imaginary or after–image target. Watabe H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:155–7

Control of visual attention during the basketball free throw. Vickers JN. **Am J Sports Med** 1996;24(6 Suppl):S93–7

How initial fixation position influences visual word recognition: a comparison of French and Arabic. Farid M, et al. **Brain Lang** 1996 Jun;53(3):351–68

Infant sensitivity to adult eye direction. Hains SM, et al. **Child Dev** 1996 Oct;67(5):1940–51

Relations between individual differences in oculomotor resting states and visual inspection performance. Best PS, et al. **Ergonomics** 1996 Jan;39(1):35–40

Lower limb kinematics during treadmill walking after space flight: implications for gaze stabilization. McDonald PV, et al. **Exp Brain Res** 1996 Nov;112(2):325–34

The human vertical vestibulo–ocular reflex during combined linear and angular acceleration with near–target fixation. Viirre ES, et al. **Exp Brain Res** 1996 Nov;112(2):313–24

Gaze following and joint attention in rhesus monkeys (Macaca mulatta). Emery NJ, et al. **J Comp Psychol** 1997 Sep;111(3):286–93

Initiation and inhibition of saccadic eye movements in younger and older adults: an analysis of the gap effect. Pratt J, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar; 52(2):P103–7

The ability of Medmont M600 automated perimetry to detect threats to fixation. Zhang L, et al. **J Glaucoma** 1997 Aug; 6(4):259–62

Augmenting surgery for sensory esotropia with near/distance disparity with a medial rectus posterior fixation suture. Elsas FJ, et al. **J Pediatr Ophthalmol Strabismus** 1996 Jan–Feb;33(1):28–30

Latent fixation nystagmus and nasotemporal asymmetries of motion visually evoked potentials in naturally strabismic primate. Tychsen L, et al. **J Pediatr Ophthalmol Strabismus** 1996 May–Jun; 33(3):148–52

The effect of various methods of eye immobilization on corneal topography. Sher NA, et al. **J Refract Surg** 1996 May–Jun;12(4):467–71

Downgaze eyelid position in patients with blepharoptosis. Meyer DR, et al. **Ophthalmology** 1995 Oct;102(10):1517–23

Differential diagnosis of staring spells in children: a video–EEG study. Carmant L, et al. **Pediatr Neurol** 1996 Apr;14(3):199–202

Trajectories of the human binocular fixation point during conjugate and non–conjugate gaze–shifts. Collewijn H, et al. **Vision Res** 1997 Apr;37(8):1049–69

[Disparity of fixation in asthenopic syndrome] Paris V. **Bull Soc Belge Ophtalmol** 1995;259:165–73 (Eng. Abstr.) **(Fre)**

[A study on the relationship of shyness and gaze] Iizuka Y. **Shinrigaku Kenkyu** 1995 Oct;66(4):277–82 (Eng. Abstr.) **(Jpn)**

[Anomalous visual suppression of caloric nystagmus] Pérez Fernández N, et al. **An Otorrinolaringol Ibero Am** 1996; 23(1):19–34 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Quantitative assessment of fixational eye movements by scanning laser ophthalmoscopy. Møller F, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):578–83

Binocular field in pigeons: behavioral measures of stimulus detection and coding. Cesaretti G, et al. **Arch Ital Biol** 1997 Mar;135(2):131–43

Topographical reproducibility of small scotoma using computerised dynamic fixation target. Mutlukan E. **Doc Ophthalmol** 1995–96;91(3):223–31

Attention–related neurons in the supplementary eye field of the macaque monkey. Bon L, et al. **Exp Brain Res** 1997 Jan;113(1):180–5

Hypometric primary saccades of schizophrenics in a delayed–response task. Everling S, et al. **Exp Brain Res** 1996 Sep;111(2):289–95

Reaction times of vertical prosaccades and antisaccades in gap and overlap tasks. Goldring J, et al. **Exp Brain Res** 1997 Jan;113(1):88–103

Combined eye–head gaze shifts to visual and auditory targets in humans. Goldring JE, et al. **Exp Brain Res** 1996 Sep; 111(1):68–78

The effect of fixation condition manipulations on antisaccade performance in schizophrenia: studies of diagnostic specificity. McDowell JE, et al. **Exp Brain Res** 1997 Jun, 115(2):333–44

Effects of fixation target timing on smooth–pursuit initiation. Morrow MJ, et al. **Exp Brain Res** 1996 Sep;111(2):262–70

Validity of Listing's law during fixations, saccades, smooth pursuit eye movements, and blinks. Straumann D, et al. **Exp Brain Res** 1996 Nov;112(1):135–46

Effect of neck posture on patterns of activation of feline neck muscles during horizontal rotation. Thomson DB, et al. **Exp Brain Res** 1996 Aug;110(3):392–400

Properties of eye movements induced by activation of neck muscle proprioceptors. Lennerstrand G, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Nov;234(11):703–9

Response latencies and event–related potentials during the gap paradigm using saccadic responses in human subjects. Gómez C, et al. **Int J Psychophysiol** 1996 Aug–Sep; 23(1–2):91–9

Evaluation of fixation one year after perifoveal laser treatment of subfoveal choroidal neovascularization. Fasce F, et al. **Int Ophthalmol** 1996–97;20(5):251–8

Evidence that perihypoglossal neurons involved in vestibular–auditory and gaze control functions respond to nerve growth factor. Sukhov RR, et al. **J Comp Neurol** 1997 Jun 30;383(2):123–34

Ineffective leftward search in line bisection and mechanisms of left unilateral spatial neglect. Ishiai S, et al. **J Neurol** 1996 May;243(5):381–7

Three–dimensional vector analysis of the human vestibuloocular reflex in response to high–acceleration head rotations. I. Responses in normal subjects. Aw ST, et al. **J Neurophysiol** 1996 Dec;76(6):4009–20

Human express saccade makers are impaired at suppressing visually evoked saccades. Biscaldi M, et al. **J Neurophysiol** 1996 Jul;76(1):199–214

Coding of peripersonal space in inferior premotor cortex (area F4). Fogassi L, et al. **J Neurophysiol** 1996 Jul; 76(1):141–57

Initiation of saccades during fixation or pursuit: evidence in humans for a single mechanism. Krauzlis RJ, et al. **J Neurophysiol** 1996 Dec;76(6):4175–9

Transitions between pursuit eye movements and fixation in the monkey: dependence on context. Krauzlis RJ, et al. **J Neurophysiol** 1996 Sep;76(3):1622–38

Effect of remote distractors on saccade programming: evidence for an extended fixation zone. Walker R, et al. **J Neurophysiol** 1997 Aug;78(2):1108–19

Shared neural control of attentional shifts and eye movements. Kustov AA, et al. **Nature** 1996 Nov 7; 384(6604):74–7

Target predictability influences the distribution of coordinated eye–head gaze saccades in patients with homonymous hemianopia. Schoepf D, et al. **Neurol Res** 1996 Oct;18(5):425–39

Fixation–off–sensitive epilepsy with absences and absence status: video–EEG documentation. Agathonikou A, et al. **Neurology** 1997 Jan;48(1):231–4

Attention and oculomotor control: a high–density ERP study of the gap effect. Csibra G, et al. **Neuropsychologia** 1997 Jun;35(6):855–65

Eye position–dependent activation of neurones in striate cortex of macaque. Guo K, et al. **Neuroreport** 1997 Apr 14;8(6):1405–9

Fixation patterns and reading rates in eyes with central scotomas from advanced atrophic age–related macular degeneration and Stargardt disease. Sunness JS, et al. **Ophthalmology** 1996 Sep;103(9):1458–66

Velocity criteria for "foveation periods" determined from image motions simulating congenital nystagmus. Chung ST, et al. **Optom Vis Sci** 1996 Feb;73(2):92–103

Comparison of the monocular occlusion and a direct method for objective measurement of fixation disparity. Fogt N, et al. **Optom Vis Sci** 1997 Jan;74(1):43–50

The relationship between the locations of spatial features and those of fixations made during visual examination of briefly presented images. Mannan SK, et al. **Spat Vis** 1996;

10(3):165–88
Gaze field properties of eye position neurones in areas MST and 7a of the macaque monkey. Squatrito S, et al. **Vis Neurosci** 1996 Mar–Apr;13(2):385–98
Visual receptive fields of neurons in primary visual cortex (V1) move in space with the eye movements of fixation. Gur M, et al. **Vision Res** 1997 Feb;37(3):257–65
Fixation conditions, the foveola and saccadic latency. Kalesnykas RP, et al. **Vision Res** 1996 Oct;36(19):3195–203
Listing's plane dependence on alternating fixation in a strabismus patient. Melis BJ, et al. **Vision Res** 1997 May; 37(10):1355–66
[Acquired vertical diplopia in macular dystrophy as a model for obligate fixation disparity] Steffen H, et al. **Ophthalmologe** 1996 Aug;93(4):383–6 (Eng. Abstr.) **(Ger)**
[Detection of resting state of accommodation by accommodative microfluctuation] Kajita M, et al. **Nippon Ganka Gakkai Zasshi** 1997 May;101(5):413–6 (Eng. Abstr.) **(Jpn)**

FIXATION, TISSUE see **TISSUE FIXATION**

FIXATIVES

Cellular fixation. A study of CytoRich Red and Cytospin Collection Fluid. Weidmann J, et al. **Acta Cytol** 1997 Jan–Feb;41(1):182–7
Kinesin movement on glutaraldehyde-fixed microtubules. Turner D, et al. **Anal Biochem** 1996 Nov 1;242(1):20–5
Physical properties of a porcine internal thoracic artery fixed with an epoxy compound. Sung HW, et al. **Biomaterials** 1996 Dec;17(24):2357–65
Accessibility of 7-aminoactinomycin D to lymphocyte nuclei after paraformaldehyde fixation. Lindén E, et al. **Cytometry** 1997 Jan 1;27(1):92–5
Liquid fixation of endometrial brush cytology ensures a well-preserved, representative cell sample with frequent tissue correlation. Maksem JA, et al. **Diagn Cytopathol** 1996 Jun;14(4):367–73
Method for the purification of tissue DNA suitable for PCR after fixation with Bouin's fluid. Uses and limitations in microsatellite typing. Longy M, et al. **Diagn Mol Pathol** 1997 Jun;6(3):167–73
Comparison of formalin, ethanol, and Histochoice fixation on the PCR amplification from paraffin-embedded breast cancer tissue. Giannella C, et al. **Eur J Clin Chem Clin Biochem** 1997 Aug;35(8):633–5
Influence of fixation and histological procedure on the morphometric parameters of neuronal cells. Sadowski M, et al. **Folia Morphol (Warsz)** 1995;54(4):219–26
Improved preservation of ultrastructural morphology in human spermatozoa using betaine in the primary fixative. Swan MA. **Int J Androl** 1997 Feb;20(1):45–54
In vivo ANA is a fixation artifact: nucleosome-complexed antinucleosome autoantibodies bind to the cell surface and are internalized. Kramers K, et al. **J Am Soc Nephrol** 1996 Jun;7(6):946–54
Fixation affects morphometric characters of Psoroptes cuniculi mites (Acari:Psoroptidae). Reese NE, et al. **J Med Entomol** 1996 Sep;33(5):835–8
Drying cells for SEM, AFM and TEM by hexamethyldisilazane: a study on hepatic endothelial cells. Braet F, et al. **J Microsc** 1997 Apr;186 (Pt 1):84–7
A new RNA-friendly fixative for the preservation of penaeid shrimp samples for virological detection using cDNA genomic probes. Hasson KW, et al. **J Virol Methods** 1997 Jul;66(2):227–36
Fixation of urinary sediment [letter] van der Snoek BE, et al. **Lancet** 1997 Sep 27;350(9082):933–4
Detection of Mycobacterium tuberculosis in formaldehyde solution-fixed, paraffin-embedded tissue by polymerase chain reaction in Pott's disease. Berk RH, et al. **Spine** 1996 Sep 1;21(17):1991–5
Prolonged storage of fixative for electron microscopy: effects on tissue preservation for diagnostic specimens. Mount SL, et al. **Ultrastruct Pathol** 1997 Mar–Apr;21(2):195–200
Multicenter evaluation of the 3% paraformaldehyde method for white cell counting in leukocyte-reduced red blood cells. BEST (Biomedical Excellence for Safer Transfusion) Working Party of the International Society of Blood Transfusion. Prati D, et al. **Vox Sang** 1996;70(4):241–5
[The clarification of anatomical preparations with a naphthalene solution in dimethylphthalate] Gendler EM. **Arkh Anat Gistol Embriol** 1968 Nov;55(11):83–4 **(Rus)**
[A method of improving the attachment of paraffin sections to a glass slide] Zavalishina LE, et al. **Arkh Patol** 1997 Jul–Aug;59(4):63–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Potential dangers from topical preparations containing methyl salicylate. Chan TY. **Hum Exp Toxicol** 1996 Sep; 15(9):747–50 (34 ref.)

CHEMISTRY

Glutaraldehyde as a fixative in bioprostheses and drug delivery matrices. Jayakrishnan A, et al. **Biomaterials** 1996 Mar;17(5):471–84 (169 ref.)
Effect of aqueous and nonaqueous fixatives on the quantitative estimation of collagen–proteoglycan interaction in tissue sections. Toledo OM, et al. **Biotech Histochem** 1996 May;71(3):109–14
Tannic acid supplemented fixation improves ultrastructural evaluation of respiratory epithelium in children with recurrent respiratory tract infections. Valletta EA, et al. **Biotech Histochem** 1996 Sep;71(5):245–50
Chloromethyl-X-Rosamine is an aldehyde-fixable potential-sensitive fluorochrome for the detection of early apoptosis. Macho A, et al. **Cytometry** 1996 Dec 1; 25(4):333–40
Expression of estrogen and progesterone receptors in cytologic specimens using various fixatives. Hudock JA, et al. **Diagn Cytopathol** 1996 Jul;15(1):78–83
Immunostaining of cell preparations: a comparative evaluation of common fixatives and protocols. Suthipintawong C, et al. **Diagn Cytopathol** 1996 Aug; 15(2):167–74
The effects of mercaptoethanol-formaldehyde on tissue fixation and protein retention. Durgun-Yücel B, et al. **Histochem J** 1996 May;28(5):375–83
Crosslinking characteristics of an epoxy-fixed porcine tendon: effects of pH, temperature, and fixative concentration. Sung HW, et al. **J Biomed Mater Res** 1996 Aug;31(4):511–8
Studies on epoxy compound fixation. Sung HW, et al. **J Biomed Mater Res** 1996 Fall;33(3):177–86
Degradation potential of biological tissues fixed with various fixatives: an in vitro study. Sung HW, et al. **J Biomed Mater Res** 1997 May;35(2):147–55

DIAGNOSTIC USE

Lymph node-revealing solution: simple new method for detecting minute lymph nodes in colon carcinoma. Koren R, et al. **Dis Colon Rectum** 1997 Apr;40(4):407–10

METABOLISM

Fixation of various porcine arteries with an epoxy compound. Sung HW, et al. **Artif Organs** 1997 Jan;21(1):50–8
Metabolism and disposition of dimethyl hydrogen phosphite in rats and mice. Nomeir AA, et al. **J Toxicol Environ Health** 1997 Aug 8;51(5):489–501

PHARMACOKINETICS

Metabolism and disposition of dimethyl hydrogen phosphite in rats and mice. Nomeir AA, et al. **J Toxicol Environ Health** 1997 Aug 8;51(5):489–501

PHARMACOLOGY

The effect of decalcification and choice of fixative on histiocytic iron in bone marrow core biopsies. DePalma L. **Biotech Histochem** 1996 Mar;71(2):57–60
The role of DNase and EDTA on DNA degradation in formaldehyde fixed tissues. Yagi N, et al. **Biotech Histochem** 1996 May;71(3):123–9
Rapid single-step method for flow cytometric detection of surface and intracellular antigens using whole blood. Francis C, et al. **Cytometry** 1996 Sep 1;25(1):58–70
Formalin fixation strongly influences biomechanical properties of the spine. Wilke HJ, et al. **J Biomech** 1996 Dec;29(12):1629–31
Sporicidal activity of chemical and physical tissue fixation methods. Vardaxis NJ, et al. **J Clin Pathol** 1997 May; 50(5):429–33
Estimation of age from teeth by amino acid racemization: influence of fixative. Ohtani S, et al. **J Forensic Sci** 1997 Jan;42(1):137–9
Preservation of spatial organization and antigenicity of leukocyte surface molecules by aldehyde fixation: flow cytometry and high-resolution FESEM studies of CD62L, CD11b, and Thy-1. Hasslen SR, et al. **J Histochem Cytochem** 1996 Oct;44(10):1115–22
Concentration of glutaraldehyde in fixation of bioprosthetic valves [letter] Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):512–3
Viscoelasticity of dynamically fixed bioprosthetic valves. II. Effect of glutaraldehyde concentration. Duncan AC, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):302–10
Paraformaldehyde effect on ruthenium red and lysine preservation and staining of the staphylococcal glycocalyx. Fassel TA, et al. **Microsc Res Tech** 1997 Mar 1;36(5):422–7

FIXED ACTION PATTERN see **INSTINCT**

FIXED BRIDGE see **DENTURE, PARTIAL, FIXED**

FIXED PARTIAL DENTURE see **DENTURE, PARTIAL, FIXED**

FK 33-824

PHARMACOLOGY

The opioid peptide DAMME modulates histamine's content in gastric mucosa of the rat. Speroni E, et al. **Peptides** 1996; 17(6):957–64

FK-506 see **TACROLIMUS**

FL-1039 see **AMDINOCILLIN PIVOXIL**

FL-1060 see **AMDINOCILLIN**

FLACCIDITY, MUSCLE see **MUSCLE HYPOTONIA**

FLAGELLA

The archaeal flagellum: a unique motility structure. Jarrell KF, et al. **J Bacteriol** 1996 Sep;178(17):5057–64 (62 ref.)
The flgE gene of Campylobacter coli is under the control of the alternative sigma factor sigma54. Kinsella N, et al. **J Bacteriol** 1997 Aug;179(15):4647–53
Promoter selectivity of Escherichia coli RNA polymerase sigmaF holoenzyme involved in transcription of flagellar and chemotaxis genes. Kundu TK, et al. **J Bacteriol** 1997 Jul;179(13):4264–9
Primordial germ cells and oocytes of Branchiostoma virginiae (Cephalochordata, Acrania) are flagellated epithelial cells: relationship between epithelial and primary egg polarity. Frick JE, et al. **Zygote** 1997 May;5(2):139–51

CHEMISTRY

Adiabatic compressibility of flagellin and flagellar filament of Salmonella typhimurium. Tamura Y, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):120–6
Axonemal dyneins: assembly, organization, and regulation. Porter ME. **Curr Opin Cell Biol** 1996 Feb;8(1):10–7 (68 ref.)
A flagellar sheath protein of Helicobacter pylori is identical to HpaA, a putative N-acetylneuraminyllactose-binding hemagglutinin, but is not an adhesin for AGS cells. Jones AC, et al. **J Bacteriol** 1997 Sep;179(17):5643–7
Sulfur-binding protein of flagella of Thiobacillus ferrooxidans. Ohmura N, et al. **J Bacteriol** 1996 Oct; 178(19):5776–80
Flagellar assembly in Salmonella typhimurium. Aizawa SI. **Mol Microbiol** 1996 Jan;19(1):1–5 (30 ref.)
Purification and characterization of the flagellar hook-basal body complex of Bacillus subtilis. Kubori T, et al. **Mol Microbiol** 1997 Apr;24(2):399–410
The C-terminal half of the anti-sigma factor, FlgM, becomes structured when bound to its target, sigma 28. Daughdrill GW, et al. **Nat Struct Biol** 1997 Apr;4(4):285–91

DRUG EFFECTS

Bacterial filamentation of Yersinia pestis by beta-lactam antibiotics in experimentally infected mice. Davis KJ, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):865–8
Vibrio alginolyticus mutants resistant to phenamil, a specific inhibitor of the sodium-driven flagellar motor. Kojima S, et al. **J Mol Biol** 1997 Jan 24;265(3):310–8

ENZYMOLOGY

SksC, a fertilization-related protein kinase in Chlamydomonas, is expressed throughout the cell cycle and gametogenesis, and a phosphorylated form is present in both flagella and cell bodies. Kurvari V, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):45–54

GENETICS

Recognition of mucin by the adhesin-flagellar system of Pseudomonas aeruginosa. Ramphal R, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S170–4 (32 ref.)
Sequence analysis of the Chlamydomonas reinhardtii flagellar alpha dynein gene. Mitchell DR, et al. **Cell Motil Cytoskeleton** 1997;37(2):120–6
Molecular characterization of a flagellar/chemotaxis operon in the spirochete Borrelia burgdorferi. Ge Y, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):425–31
Isolation and characterisation of a linked cluster of genes from Agrobacterium tumefaciens encoding proteins involved in flagellar basal-body structure. Deakin WJ, et al. **Gene** 1997 Apr 11;189(1):135–7
The Agrobacterium tumefaciens motor gene, motA, is in a linked cluster with the flagellar switch protein genes, fliG, fliM and fliN. Deakin WJ, et al. **Gene** 1997 Apr 11; 189(1):139–41
Identification of a large motility operon in Borrelia burgdorferi by semi-random PCR chromosome walking. Ge Y, et al. **Gene** 1997 Apr 21;189(2):195–201
Cloning and nucleotide sequence of a flagellin encoding genetic locus from Xenorhabdus nematophilus: phase variation leads to differential transcription of two flagellar genes (fliCD). Givaudan A, et al. **Gene** 1996 Dec 12; 183(1–2):243–53
Genetic and transcriptional analysis of flgB flagellar operon constituents in the oral spirochete Treponema denticola and their heterologous expression in enteric bacteria. Heinzerling HF, et al. **Infect Immun** 1997 Jun;65(6):2041–51
Construction of a flagellum-negative mutant of Proteus mirabilis: effect on internalization by human renal epithelial cells and virulence in a mouse model of ascending urinary tract infection. Mobley HL, et al. **Infect Immun** 1996 Dec; 64(12):5332–40
A transcriptional activator, FleQ, regulates mucin adhesion and flagellar gene expression in Pseudomonas aeruginosa in a cascade manner. Arora SK, et al. **J Bacteriol** 1997 Sep;179(17):5574–81
The alternative sigma factor sigma28 of Legionella pneumophila restores flagellation and motility to an Escherichia coli fliA mutant. Heuner K, et al. **J Bacteriol** 1997 Jan;179(1):17–23

Cloning and characterization of the region III flagellar operons of the four Shigella subgroups: genetic defects that cause loss of flagella of Shigella boydii and Shigella sonnei. Al Mamun AA, et al. **J Bacteriol** 1997 Jul;179(14):4493–500

Cell cycle regulation of flagellar genes. Prüss BM, et al. **J Bacteriol** 1997 Sep;179(17):5602–4

Cloning and characterization of the Helicobacter pylori flbA gene, which codes for a membrane protein involved in coordinated expression of flagellar genes. Schmitz A, et al. **J Bacteriol** 1997 Feb;179(4):987–97

Use of the flagellar H7 gene as a target in multiplex PCR assays and improved specificity in identification of enterohemorrhagic Escherichia coli strains. Gannon VP, et al. **J Clin Microbiol** 1997 Mar;35(3):656–62

PF20 gene product contains WD repeats and localizes to the intermicrotubule bridges in Chlamydomonas flagella. Smith EF, et al. **Mol Biol Cell** 1997 Mar;8(3):455–67

Autogenous and global control of the flagellar master operon, flhD, in Salmonella typhimurium. Kutsukake K. **Mol Gen Genet** 1997 Apr 28;254(4):440–8

Characterization of flagella genes of Agrobacterium tumefaciens, and the effect of a bald strain on virulence. Chesnokova O, et al. **Mol Microbiol** 1997 Feb;23(3):579–90

A motile but non–swarming mutant of Proteus mirabilis lacks FlgN, a facilitator of flagella filament assembly. Gygi D, et al. **Mol Microbiol** 1997 Aug;25(3):597–604

Regulation of the Caulobacter flagellar gene hierarchy; not just for motility. Wu J, et al. **Mol Microbiol** 1997 Apr; 24(2):233–9 (45 ref.)

Calcium influx signals normal flagellar RNA induction following acid shock of Chlamydomonas reinhardtii. Evans JH, et al. **Plant Mol Biol** 1997 Feb;33(3):467–81

IMMUNOLOGY

Antibody responses of rats and humans to flagella–less cells and OspA protein of Borrelia burgdorferi. Sadziene A, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:140–50

Assembly and function of Chlamydomonas flagellar mastigonemes as probed with a monoclonal antibody. Nakamura S, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):57–62

The flagellar fraction of Trypanosoma cruzi depleted of an immunosuppressive antigen enhances protection to infection and elicits spontaneous T cell responses. Hansen DS, et al. **Parasite Immunol** 1996 Dec;18(12):607–15

METABOLISM

A flagellar–specific ATPase (FliI) is necessary for flagellar export in Helicobacter pylori. Jenks PJ, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):205–11

Negative feedback from a Proteus class II flagellum export defect to the flhDC master operon controlling cell division and flagellum assembly. Furness RB, et al. **J Bacteriol** 1997 Sep;179(17):5585–8

Hook–length control of the export–switching machinery involves a double–locked gate in Salmonella typhimurium flagellar morphogenesis. Kutsukake K. **J Bacteriol** 1997 Feb;179(4):1268–73

The FliO, FliP, FliQ, and FliR proteins of Salmonella typhimurium: putative components for flagellar assembly. Ohnishi K, et al. **J Bacteriol** 1997 Oct;179(19):6092–9

Regulation of flagellar dynein by phosphorylation of a 138–kD inner arm dynein intermediate chain. Habermacher G, et al. **J Cell Biol** 1997 Jan 13;136(1):167–76

Regulation of flagellar dynein by an axonemal type–1 phosphatase in Chlamydomonas. Habermacher G, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1899–907

Detection of motility and putative synthesis of flagellar proteins in Salmonella pullorum cultures. Holt PS, et al. **J Clin Microbiol** 1997 Apr;35(4):1016–20

The specificity of fumarate as a switching factor of the bacterial flagellar motor. Barak R, et al. **Mol Microbiol** 1996 Jan;19(1):139–44

Calcium influx signals normal flagellar RNA induction following acid shock of Chlamydomonas reinhardtii. Evans JH, et al. **Plant Mol Biol** 1997 Feb;33(3):467–81

Transport of a novel complex in the cytoplasmic matrix of Chlamydomonas flagella. Piperno G, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4457–62

PHYSIOLOGY

Torque generated by the bacterial flagellar motor close to stall. Berry RM, et al. **Biophys J** 1996 Dec;71(6):3501–10

Protein turbines. I: The bacterial flagellar motor. Elston TC, et al. **Biophys J** 1997 Aug;73(2):703–21

Control of phobic behavioral responses by rhodopsin–induced photocurrents in Chlamydomonas. Holland EM, et al. **Biophys J** 1997 Sep;73(3):1395–401

Torque–generating units of the bacterial flagellar motor step independently. Samuel AD, et al. **Biophys J** 1996 Aug; 71(2):918–23

How Chlamydomonas keeps track of the light once it has reached the right phototactic orientation. Schaller K, et al. **Biophys J** 1997 Sep;73(3):1562–72

New insights into the workings of the ultimate swimming machine. Svoboda K. **Biophys J** 1996 Aug;71(2):539–40

Temperature–induced switching of the bacterial flagellar motor. Turner L, et al. **Biophys J** 1996 Oct;71(4):2227–33

A moving image of flagella: news and views on the mechanisms involved in axonemal beating. Cosson J. **Cell Biol Int** 1996 Feb;20(2):83–94 (53 ref.)

Induction of temporary beating in paralyzed flagella of Chlamydomonas mutants by application of external force. Hayashibe K, et al. **Cell Motil Cytoskeleton** 1997; 37(3):232–9

Flagellar photoresponses of ptx1, a nonphototactic mutant of Chlamydomonas. Rüffer U, et al. **Cell Motil Cytoskeleton** 1997;37(2):111–9

Beat frequency difference between the two flagella of Chlamydomonas depends on the attachment site of outer dynein arms on the outer–doublet microtubules. Takada S, et al. **Cell Motil Cytoskeleton** 1997;36(1):68–75

Conversion of beating mode in Chlamydomonas flagella induced by electric stimulation. Yoshimura K, et al. **Cell Motil Cytoskeleton** 1997;36(3):236–45

Functions of bacterial flagella. Moens S, et al. **Crit Rev Microbiol** 1996;22(2):67–100 (282 ref.)

Ion selectivity in the Chlamydomonas reinhardtii flagellar regeneration system. Evans JH, et al. **Exp Cell Res** 1997 Jan 10;230(1):94–102

The Rhodobacter sphaeroides flagellar motor is a variable–speed rotor. Packer HL, et al. **FEBS Lett** 1997 Jun 2;409(1):37–40

Induction of flagellation and a novel agar–penetrating flagellar structure in Salmonella enterica grown on solid media: possible consequences for serological identification. Guard–Petter J. **FEMS Microbiol Lett** 1997 Apr 15; 149(2):173–80

Characterization of flaA– and flaB– mutants of Serpulina hyodysenteriae: both flagellin subunits, FlaA and FlaB, are necessary for full motility and intestinal colonization. Kennedy MJ, et al. **FEMS Microbiol Lett** 1997 Aug 1; 153(1):119–28

The role of flagella and motility in the adherence and invasion to fish cell lines by Aeromonas hydrophila serogroup O:34 strains. Merino S, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):213–7

Analysis of the Legionella pneumophila fliI gene: intracellular growth of a defined mutant defective for flagellum biosynthesis. Merriam JJ, et al. **Infect Immun** 1997 Jun;65(6):2497–501

Dual flaA1 flaB1 mutant of Serpulina hyodysenteriae expressing periplasmic flagella is severely attenuated in a murine model of swine dysentery. Rosey EL, et al. **Infect Immun** 1996 Oct;64(10):4154–62

A model for flagellar motility. Lindemann CB, et al. **Int Rev Cytol** 1997;173:1–72 (376 ref.)

Putative channel components for the fast–rotating sodium–driven flagellar motor of a marine bacterium. Asai Y, et al. **J Bacteriol** 1997 Aug;179(16):5104–10

Deletion analysis of the FliM flagellar switch protein of Salmonella typhimurium. Toker AS, et al. **J Bacteriol** 1996 Dec;178(24):7069–79

The polyglutamylated lateral chain of alpha–tubulin plays a key role in flagellar motility. Gagnon C, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1545–53

Charged residues of the rotor protein FliG essential for torque generation in the flagellar motor of Escherichia coli. Lloyd SA, et al. **J Mol Biol** 1997 Mar 7;266(4):733–44

Chemotactic responses to an attractant and a repellent by the polar and lateral flagellar systems of Vibrio alginolyticus. Homma M, et al. **Microbiology** 1996 Oct;142 (Pt 10):2777–83

A motile but non–swarming mutant of Proteus mirabilis lacks FlgN, a facilitator of flagella filament assembly. Gygi D, et al. **Mol Microbiol** 1997 Aug;25(3):597–604

The sodium–driven polar flagellar motor of marine Vibrio as the mechanosensor that regulates lateral flagellar expression. Kawagishi I, et al. **Mol Microbiol** 1996 May; 20(4):693–9

Direct interaction of flagellin termini essential for polymorphic ability of flagellar filament. Mimori–Kiyosue Y, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15108–13

Stepped versus continuous rotatory motors at the molecular scale. Sabbert D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2312–7

Spinning tails: homologies among bacterial flagellar systems. Harshey RM, et al. **Trends Microbiol** 1996 Jun;4(6):226–31 (68 ref.)

[Intervention of Campylobacter jejuni subsp. jejuni flagella in the adhesion to cellular cultures: bacteriological and immunological evidence] Fernández H, et al. **Rev Med Chil** 1996 Sep;124(9):1029–35 (Eng. Abstr.) **(Spa)**

SECRETION

Identification of the fliI and fliJ components of the Caulobacter flagellar type III protein secretion system. Stephens C, et al. **J Bacteriol** 1997 Sep;179(17):5355–65

ULTRASTRUCTURE

A moving image of flagella: news and views on the mechanisms involved in axonemal beating. Cosson J. **Cell Biol Int** 1996 Feb;20(2):83–94 (53 ref.)

Purification and characterization of basal apparatuses from a flagellate green alga. Geimer S, et al. **Cell Motil Cytoskeleton** 1997;37(1):72–85

Molecular characterization of a large Borrelia burgdorferi motility operon which is initiated by a consensus sigma70 promoter. Ge Y, et al. **J Bacteriol** 1997 Apr;179(7):2289–99

The flk gene of Salmonella typhimurium couples flagellar P– and L–ring assembly to flagellar morphogenesis. Karlinsey JE, et al. **J Bacteriol** 1997 Apr;179(7):2389–400

Assembly of the switch complex onto the MS ring complex of Salmonella typhimurium does not require any other flagellar proteins. Kubori T, et al. **J Bacteriol** 1997 Feb; 179(3):813–7

Relationship of Treponema denticola periplasmic flagella to irregular cell morphology. Ruby JD, et al. **J Bacteriol** 1997 Mar;179(5):1628–35

Studies on the eel sperm flagellum. I. The structure of the inner dynein arm complex. Woolley DM. **J Cell Sci** 1997 Jan;110 (Pt 1):85–94

Immunochemical characterization of a human sperm fibrous sheath protein, its developmental expression pattern, and morphogenetic relationships with actin. Escalier D, et al. **J Histochem Cytochem** 1997 Jul;45(7):909–22

Cytoskeletal architecture and components involved in the attachment of Trypanosoma congolense epimastigotes. Beattie P, et al. **Parasitology** 1997 Jul;115 (Pt 1):47–55

Molecular architecture of bacterial flagellum. Namba K, et al. **Q Rev Biophys** 1997 Feb;30(1):1–65 (185 ref.)

FLAGELLATA see **MASTIGOPHORA**

FLAGELLIN

BIOSYNTHESIS

Vibrio parahaemolyticus FlaJ, a homologue of FliS, is required for production of a flagellin. Stewart BJ, et al. **Mol Microbiol** 1996 Apr;20(1):137–49

[The PCR amplification, cloning, sequencing, expression in E. coli of gene encoding endoflagella subunit protein (fla B) from Leptospira interrogans serovar lai] Chen Z, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):10–6 (Eng. Abstr.) **(Chi)**

BLOOD

Serum antibodies against Borrelia afzelii, Borrelia burgdorferi sensu stricto and the 41–kiloDalton flagellin in patients from a Lyme borreliosis endemic area: analysis by EIA and immunoblot. Nilsson I, et al. **APMIS** 1996 Dec; 104(12):907–14

CHEMISTRY

Adiabatic compressibility of flagellin and flagellar filament of Salmonella typhimurium. Tamura Y, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):120–6

Mapping of the H7–serospecific domain of Escherichia coli flagellin. Kwang J, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):523–6

Locations of terminal segments of flagellin in the filament structure and their roles in polymerization and polymorphism. Mimori–Kiyosue Y, et al. **J Mol Biol** 1997 Jul 11;270(2):222–37

Direct interaction of flagellin termini essential for polymorphic ability of flagellar filament. Mimori–Kiyosue Y, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15108–13

GENETICS

Variation in manifestation of E. coli H7 antigen. Bailey CW, et al. **Adv Exp Med Biol** 1997;412:83–5

Specific identification of Escherichia coli O157:H7 using a multiplex PCR assay. Gannon VP, et al. **Adv Exp Med Biol** 1997;412:81–2

Decrease in expression of the master operon of flagellin synthesis in a dnaA46 mutant of Escherichia coli. Mizushima T, et al. **Biol Pharm Bull** 1997 Apr;20(4):327–31

Single–tube nested polymerase chain reaction assay based on Flagellin gene sequences for detection of Borrelia burgdorferi sensu lato. Picken MM, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):489–98

Genetic diversity of flagellins of Pseudomonas aeruginosa. Spangenberg C, et al. **FEBS Lett** 1996 Nov 4; 396(2–3):213–7

Characterization of flaA– and flaB– mutants of Serpulina hyodysenteriae: both flagellin subunits, FlaA and FlaB, are necessary for full motility and intestinal colonization. Kennedy MJ, et al. **FEMS Microbiol Lett** 1997 Aug 1; 153(1):119–28

PCR–based restriction fragment length polymorphism (RFLP) analysis and serotyping of Campylobacter jejuni isolates from diarrheic patients in China and Japan. Nishimura M, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):133–8

Cloning and nucleotide sequence of a flagellin encoding genetic locus from Xenorhabdus nematophilus: phase variation leads to differential transcription of two flagellar genes (fliCD). Givaudan A, et al. **Gene** 1996 Dec 12; 183(1–2):243–53

Deletion formation between the two Salmonella typhimurium flagellin genes encoded on the mini F plasmid: Escherichia coli ssb alleles enhance deletion rates and change hot–spot preference for deletion endpoints. Mukaihara T, et al. **Genetics** 1997 Mar;145(3):563–72

Infection of the ferret stomach by isogenic flagellar mutant strains of Helicobacter mustelae. Andrutis KA, et al. **Infect Immun** 1997 May;65(5):1962–6

Dual flaA1 flaB1 mutant of Serpulina hyodysenteriae expressing periplasmic flagella is severely attenuated in a murine model of swine dysentery. Rosey EL, et al.

FLAGELLIN

Infect Immun 1996 Oct;64(10):4154–62
A phylogenetic analysis of Borrelia burgdorferi sensu lato isolates associated with Lyme disease in Japan by flagellin gene sequence determination. Fukunaga M, et al.
Int J Syst Bacteriol 1996 Apr;46(2):416–21
Phylogenetic analysis of Borrelia species based on flagellin gene sequences and its application for molecular typing of Lyme disease borreliae. Fukunaga M, et al.
Int J Syst Bacteriol 1996 Oct;46(4):898–905
Posttranscriptional regulation of Caulobacter flagellin genes by a late flagellum assembly checkpoint. Anderson DK, et al. **J Bacteriol** 1997 Apr;179(7):2281–8
Mutagenesis of Burkholderia pseudomallei with Tn5–OT182: isolation of motility mutants and molecular characterization of the flagellin structural gene. DeShazer D, et al.
J Bacteriol 1997 Apr;179(7):2116–25
Molecular characterization of a large Borrelia burgdorferi motility operon which is initiated by a consensus sigma70 promoter. Ge Y, et al. **J Bacteriol** 1997 Apr;179(7):2289–99
An unexpected flaA homolog is present and expressed in Borrelia burgdorferi. Ge Y, et al. **J Bacteriol** 1997 Jan; 179(2):552–6
The alternative sigma factor sigma28 of Legionella pneumophila restores flagellation and motility to an Escherichia coli fliA mutant. Heuner K, et al.
J Bacteriol 1997 Jan;179(1):17–23
Identification and characterization of additional flagellin genes from Vibrio anguillarum. McGee K, et al.
J Bacteriol 1996 Sep;178(17):5188–98
Cloning and characterization of the Helicobacter pylori flbA gene, which codes for a membrane protein involved in coordinated expression of flagellar genes. Schmitz A, et al. **J Bacteriol** 1997 Feb;179(4):987–97
Identification and molecular characterization of two tandemly located flagellin genes from Aeromonas salmonicida A449. Umelo E, et al. **J Bacteriol** 1997 Sep; 179(17):5292–9
Evidence for recombination in the flagellin locus of Campylobacter jejuni: implications for the flagellin gene typing scheme. Harrington CS, et al. **J Clin Microbiol** 1997 Sep;35(9):2386–92
Culturing selects for specific genotypes of Borrelia burgdorferi in an enzootic cycle in Colorado. Norris DE, et al. **J Clin Microbiol** 1997 Sep;35(9):2359–64
Immune response to a Murray Valley encephalitis virus epitope expressed in the flagellin of an attenuated strain of Salmonella. Whittle BL, et al. **J Med Microbiol** 1997 Feb;46(2):129–38
DNA–melting at the Bacillus subtilis flagellin promoter nucleates near –10 and expands unidirectionally. Chen YF, et al. **J Mol Biol** 1997 Mar 21;267(1):47–59
Regulatory sequences of two flagellin genes in Bacillus thuringiensis subsp. alesti. Ankarloo J, et al.
Microbiology 1996 Feb;142 (Pt 2):315–20
Isolation and characterization of insertional mutations in flagellin genes in the archaeon Methanococcus voltae. Jarrell KF, et al. **Mol Microbiol** 1996 May;20(3):657–66
Flagellin gene profiling of Campylobacter jejuni heat–stable serotype 1 and 4 complex. Santesteban E, et al.
Res Microbiol 1996 Oct;147(8):641–9
Flagellin gene diversity among Helicobacter pylori strains and IL–8 secretion from gastric epithelial cells. Ohta–Tada U, et al. **Scand J Gastroenterol** 1997 May;32(5):455–9

HISTORY

Immune deviation: a historical perspective. Parish CR.
Immunol Cell Biol 1996 Oct;74(5):449–56 (53 ref.)

IMMUNOLOGY

Immunoblot reactivity of polyclonal and monoclonal antibodies with periplasmic flagellar proteins FlaA1 and FlaB of porcine Serpulina species. Fisher LN, et al.
Clin Diagn Lab Immunol 1997 Jul;4(4):400–4
Mapping of the H7–serospecific domain of Escherichia coli flagellin. Kwang J, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):523–6
Lyme disease in transgenic mice expressing the Borrelia burgdorferi flagellin epitope implicated in human neuroborreliosis. Fikrig E, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):137–43
Immune deviation: a historical perspective. Parish CR.
Immunol Cell Biol 1996 Oct;74(5):449–56 (53 ref.)
FlaA, a putative flagellar outer sheath protein, is not an immunodominant antigen associated with Lyme disease. Ge Y, et al. **Infect Immun** 1997 Jul;65(7):2992–5
A monoclonal antibody to Borrelia burgdorferi flagellin modifies neuroblastoma cell neuritogenesis in vitro: a possible role for autoimmunity in the neuropathy of Lyme disease. Sigal LH, et al. **Infect Immun** 1997 May; 65(5):1722–8
Characterization of nonmotile variants of Escherichia coli O157 and other serotypes by using an antiflagellin monoclonal antibody. Feng P, et al. **J Clin Microbiol** 1996 Nov;34(11):2856–9
Identification of a natural T cell epitope presented by Salmonella–infected macrophages and recognized by T cells from orally immunized mice. Cookson BT, et al.
J Immunol 1997 May 1;158(9):4310–9
Development of enzyme–linked immunosorbent assays using recombinant borrelial antigens for serodiagnosis of Borrelia burgdorferi infection. Burkert S, et al.
Med Microbiol Immunol (Berl) 1996 May;185(1):49–57
In a vaccine model, selected substitution of a highly stimulatory T cell epitope of hen's egg lysozyme into a Salmonella flagellin does not result in a homologous, specific, cellular immune response and may alter the way in which the total antigen is processed. Vanegas RA, et al. **Vaccine** 1997 Feb;15(3):321–4

ISOLATION & PURIFICATION

Flagellin, a major protein present in SDS–PAGE profiles of Sarkosyl–OMP–enriched fractions from Bordetella bronchiseptica Bvg– or modulated Bvg+ strains. Passerini de Rossi BN, et al. **Vet Microbiol** 1997 May;56(1–2):65–77

METABOLISM

Defined mutants of Proteus mirabilis lacking flagella cause ascending urinary tract infection in mice. Legnani–Fajardo C, et al. **Microb Pathog** 1996 Nov;21(5):395–405
The flagellin N–methylase gene fliB and an adjacent serovar–specific IS200 element in Salmonella typhimurium. Burnens AP, et al. **Microbiology** 1997 May;143 (Pt 5):1539–47
Characterization of a post–translational modification of Campylobacter flagellin: identification of a sero–specific glycosyl moiety. Doig P, et al. **Mol Microbiol** 1996 Jan; 19(2):379–87
Identification and characterization of genes required for post–translational modification of Campylobacter coli VC167 flagellin. Guerry P, et al. **Mol Microbiol** 1996 Jan; 19(2):369–78
The sodium–driven polar flagellar motor of marine Vibrio as the mechanosensor that regulates lateral flagellar expression. Kawagishi I, et al. **Mol Microbiol** 1996 May; 20(4):693–9
Direct interaction of flagellin termini essential for polymorphic ability of flagellar filament. Mimori–Kiyosue Y, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15108–13

FLAIL CHEST

COMPLICATIONS

Cerebro–costo–mandibular syndrome [published erratum appears in Am J Med Genet 1996 Aug 23;64(3):527] Plötz FB, et al. **Am J Med Genet** 1996 Mar 29;62(3):286–92 (20 ref.)

PHYSIOPATHOLOGY

Actions of the inspiratory intercostal muscles in flail chest. Cappello M, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1085–9

SURGERY

An unusual case of flail chest: surgical repair using Marlex mesh. Heriot AG, et al. **Thorax** 1997 May;52(5):488–9
Management of oesophageal atresia [comment] Walker WS. **Thorax** 1997 May;52(5):486. Comment on: Thorax 1997 May;52(5):487–8.
[Early treatment of the unstable thorax in polytrauma] Michek J, et al. **Rozhl Chir** 1996 Apr;75(4):202–5 (Eng. Abstr.) **(Cze)**
[Flail chest] Fabbri C, et al. **Minerva Chir** 1996 Sep; 51(9):669–73 (Eng. Abstr.) **(Ita)**

FLAME RETARDANTS

ANALYSIS

Determination of decabromobiphenyl ether in water and sediment samples by gas chromatography with electron capture detection. Yamamoto H, et al. **J AOAC Int** 1997 Jan–Feb;80(1):102–6

TOXICITY

Acute toxicity of firefighting chemical formulations to four life stages of fathead minnow. Gaikowski MP, et al.
Ecotoxicol Environ Saf 1996 Aug;34(3):252–63

FLAPS see **SURGICAL FLAPS**

FLATFISHES

Determination of vitamin E in aquatic organisms by high–performance liquid chromatography with fluorescence detection. Huo JZ, et al. **Anal Biochem** 1996 Nov 1;242(1):123–8
In vitro synthesis of 17,20 beta,21–trihydroxy–4–pregnen–3–one by ovaries of turbot (Scophthalmus maximus L.) during oocyte maturation. Mugnier C, et al. **Gen Comp Endocrinol** 1997 Jul; 107(1):63–73
Epithelial cell line from turbot (Scophthalmus maximus L.) [letter] Fernández–Puentes C, et al.
In Vitro Cell Dev Biol Anim 1996 Jul–Aug;32(7):391–3
Clinical infectious pancreatic necrosis virus infection in farmed halibut in the United Kingdom. Rodger HD, et al. **Vet Rec** 1997 Apr 12;140(15):401–2

ANATOMY & HISTOLOGY

Distribution of ionocytes in the saccular epithelium of the inner ear of two teleosts (Oncorhynchus mykiss and Scophthalmus maximus). Mayer–Gostan N, et al.
Cell Tissue Res 1997 Jul;289(1):53–61
Acral–lentiginous naevus of plantar skin [letter; comment] Slater D. **Histopathology** 1996 Jul;29(1):95–6. Comment on: Histopathology 1995 Dec;27(6):549–55.

EMBRYOLOGY

An immunohistochemical analysis of the ontogeny, distribution and coexistence of 12 regulatory peptides and serotonin in endocrine cells and nerve fibers of the digestive tract of the turbot, Scophthalmus maximus (Teleostei). Reinecke M, et al. **Anat Embryol (Berl)** 1997 Jan; 195(1):87–101

GENETICS

Four polymorphic microsatellites in turbot Scophthalmus maximus. Coughlan J, et al. **Anim Genet** 1996 Dec;27(6):441
Structure and expression of a cluster of glutathione S–transferase genes from a marine fish, the plaice (Pleuronectes platessa). Leaver MJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):405–12
Inducibility of metallothionein mRNA expression and cadmium tolerance in larvae of a marine teleost, the turbot (Scophthalmus maximus). George SG, et al.
Fundam Appl Toxicol 1996 Sep;33(1):91–9
Characterization of the insulin–like growth factor type 1 receptor messenger in two teleost species. Elies G, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):131–40

GROWTH & DEVELOPMENT

NADPH diaphorase activity is asymmetrically distributed in the optic tectum during the period of eye migration in turbots. Jansen JK, et al. **Acta Physiol Scand** 1996 Aug; 157(4):515–7

IMMUNOLOGY

Codfish allergy in adults: IgE cross–reactivity among fish species. Hansen TK, et al.
Ann Allergy Asthma Immunol 1997 Feb;78(2):187–94
The humoral immune response of turbot, Scophthalmus maximus L., to spore–surface antigens of microsporidian parasites. Leiro J, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1–3):235–42

METABOLISM

NADPH diaphorase activity is asymmetrically distributed in the optic tectum during the period of eye migration in turbots. Jansen JK, et al. **Acta Physiol Scand** 1996 Aug; 157(4):515–7
Accumulation of trimethoprim, sulfamethoxazole, and N–acetylsulfamethoxazole in fish and shrimp fed medicated Artemia franciscana. Chair M, et al.
Antimicrob Agents Chemother 1996 Jul;40(7):1649–52
Aliphatic hydrocarbon levels in turbot and salmon farmed close to the site of the Aegean Sea oil spill. Alvarez Piñeiro ME, et al. **Bull Environ Contam Toxicol** 1996 Nov; 57(5):811–5
Production of eicosanoids derived from 20:4n–6 and 20:5n–3 in primary cultures of turbot (Scophthalmus maximus) brain astrocytes in response to platelet activating factor, substance P and interleukin–1 beta. Tocher DR, et al.
Comp Biochem Physiol B Biochem Mol Biol 1996 Oct; 115(2):215–22
Isolation of a metal–binding protein from ovaries of dab (Limanda limanda L.) distinct from metallothionein: effect of cadmium exposure. Kammann U, et al.
Ecotoxicol Environ Saf 1996 Apr;33(3):281–6
Ionic composition of endolymph in teleosts: origin and importance of endolymph alkalinity. Payan P, et al.
J Exp Biol 1997 Jul;200 (Pt 13):1905–12
The application of the 32P–postlabelling assay to aquatic biomonitoring. Harvey JS, et al. **Mutat Res** 1997 Aug 1; 378(1–2):77–88
Lead and cadmium content of two cestodes, Monobothrium wageneri and Bothriocephalus scorpii, and their fish hosts. Sures B, et al. **Parasitol Res** 1997;83(6):618–23

PARASITOLOGY

A study on the distribution of Bothriocephalus andresi (Cestoda, Pseudophyllidea) in Citharus linguatula. Cognetti Varriale AM, et al. **Parassitologia** 1996 Dec;38(3):517–9
The humoral immune response of turbot, Scophthalmus maximus L., to spore–surface antigens of microsporidian parasites. Leiro J, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1–3):235–42
The role of opsonization by antibody and complement in in vitro phagocytosis of microsporidian parasites by turbot spleen cells. Leiro J, et al. **Vet Immunol Immunopathol** 1996 May;51(1–2):201–10

PHYSIOLOGY

Pre– and postmetamorphic organization of the vestibular nuclear complex in the turbot examined by retrograde tracer substances. Jansen JK, et al. **J Comp Neurol** 1996 Jan 22;364(4):677–89

FLATFOOT

COMPLICATIONS

Pes planus in patients with posterior tibial tendon insufficiency: asymptomatic versus symptomatic foot. Dyal CM, et al. **Foot Ankle Int** 1997 Feb;18(2):85–8

ETIOLOGY

Posterior tibial tendon dysfunction as a cause of acquired flatfoot in the adult: value of magnetic resonance imaging. Narváez J, et al. **Br J Rheumatol** 1997 Jan;36(1):136–9

Posterior tibial tendon dysfunction as a cause of acquired flatfoot in adults. Kupcha PC, et al. **Del Med J** 1997 May; 69(5):255–7 (5 ref.)

A new operative approach for flatfoot secondary to posterior tibial tendon insufficiency: a preliminary report. Pomeroy GC, et al. **Foot Ankle Int** 1997 Apr;18(4):206–12

Tear of the plantar calcaneonavicular (spring) ligament causing flatfoot. A case report. Borton DC, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):641–3

PATHOLOGY

Success of calcaneonavicular coalition resection in the adult population. Cohen BE, et al. **Foot Ankle Int** 1996 Sep; 17(9):569–72

RADIOGRAPHY

Radiologic signs of unilateral pes planus. Chadha H, et al. **Foot Ankle Int** 1997 Sep;18(9):603–4

SURGERY

Subtalar arthrorisis and associated procedures. Smith SD, et al. **Clin Podiatr Med Surg** 1997 Jan;14(1):87–98 (14 ref.)

Viladot's operation in the treatment of the child's flatfoot. Carranza-Bencano A, et al. **Foot Ankle Int** 1997 Sep; 18(9):544–9

Success of calcaneonavicular coalition resection in the adult population. Cohen BE, et al. **Foot Ankle Int** 1996 Sep; 17(9):569–72

Calcaneocuboid joint pressures with lateral column lengthening (Evans) procedure. Cooper PS, et al. **Foot Ankle Int** 1997 Apr;18(4):199–205

Talonavicular arthrodesis for the painful adult acquired flatfoot [see comments] Harper MC, et al. **Foot Ankle Int** 1996 Nov;17(11):658–61. Comment in: Foot Ankle Int 1997 Jun;18(6):375–6.

Talonavicular arthrodesis for the painful adult acquired flatfoot [letter; comment] Mann RA. **Foot Ankle Int** 1997 Jun;18(6):375–6. Comment on: Foot Ankle Int 1996 Nov;17(11):658–61.

A new operative approach for flatfoot secondary to posterior tibial tendon insufficiency: a preliminary report. Pomeroy GC, et al. **Foot Ankle Int** 1997 Apr;18(4):206–12

Long term follow-up of medial column fusion and tibialis anterior transposition for adolescent flatfoot deformity. Sekiya JK, et al. **Iowa Orthop J** 1997;17:121–9

Adult acquired flatfoot deformity. Treatment of dysfunction of the posterior tibial tendon [letter] Mann RA. **J Bone Joint Surg Am** 1997 Sep;79(9):1434

THERAPY

Nonoperative management of posterior tibial tendon dysfunction [see comments] Chao W, et al. **Foot Ankle Int** 1996 Dec;17(12):736–41. Comment in: Foot Ankle Int 1997 Jul;18(7):457–8.

Adult acquired flatfoot deformity: treatment of dysfunction of the posterior tibial tendon. Myerson MS. **Instr Course Lect** 1997;46:393–405 (53 ref.)

FLATULENCE

see related
ANTIFOAMING AGENTS

ETIOLOGY

The effect of ingestion of inulin on blood lipids and gastrointestinal symptoms in healthy females. Pedersen A, et al. **Br J Nutr** 1997 Aug;78(2):215–22

PHYSIOPATHOLOGY

Insights into human colonic physiology obtained from the study of flatus composition. Suarez F, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1028–33

FLATUS see **FLATULENCE**

FLATWORMS see **PLATYHELMINTHS**

FLAVACRIDIUM see **ACRIFLAVINE**

FLAVIN-ADENINE DINUCLEOTIDE see **FAD**

FLAVIN MONONUCLEOTIDE see **FMN**

FLAVINS

CHEMISTRY

Direct electrochemistry of the flavin domain of assimilatory nitrate reductase: effects of NAD+ and NAD+ analogs. Barber MJ, et al. **Arch Biochem Biophys** 1997 Sep 1; 345(1):88–96

Identification of the naturally occurring flavin of nitroalkane oxidase from fusarium oxysporum as a 5-nitrobutyl-FAD and conversion of the enzyme to the active FAD-containing form. Gadda G, et al. **J Biol Chem** 1997 Feb 28;272(9):5563–70

Binding of Net-Fla, a netropsin-flavin hybrid molecule, to DNA: molecular mechanics and dynamics studies in vacuo and in water solution. Ketterlé C, et al. **J Biomol Struct Dyn** 1996 Jun;13(6):963–77

Model systems for flavoenzyme activity. The effects of specific hydrogen bonds on the 13C and 1H NMR of flavins. Niemz A, et al. **J Mol Recognit** 1996 Mar-Apr; 9(2):158–62

Syntheses and applications of flavin analogs as active site probes for flavoproteins. Murthy YV, et al. **Methods Enzymol** 1997;280:436–60

METABOLISM

Identification of a reactive cysteine in the flavin-binding domain of Rhodotorula gracilis D-amino acid oxidase. Pollegioni L, et al. **Arch Biochem Biophys** 1997 Jul 1; 343(1):1–5

Resonance Raman study on the oxidized and anionic semiquinone forms of flavocytochrome b2 and L-lactate monooxygenase. Influence of the structure and environment of the isoalloxazine ring on the flavin function. Tegoni M, et al. **Biochemistry** 1997 Jul 22;36(29):8932–46

The assessment of flavin-containing monooxygenase activity in intact animals. Damani LA, et al. **Drug Metabol Drug Interact** 1996;13(1):1–28 (110 ref.)

Glycerol-assisted restorative adjustment of flavoenzyme conformation perturbed by site-directed mutagenesis. Raibekas AA, et al. **J Biol Chem** 1997 Aug 29; 272(35):22248–52

Model systems for flavoenzyme activity. The effects of specific hydrogen bonds on the 13C and 1H NMR of flavins. Niemz A, et al. **J Mol Recognit** 1996 Mar-Apr; 9(2):158–62

Electrostatic properties deduced from refined structures of NADH-cytochrome b5 reductase and the other flavin-dependent reductases: pyridine nucleotide-binding and interaction with an electron-transfer partner. Nishida H, et al. **Proteins** 1996 Sep;26(1):32–41

FLAVIVIRIDAE

CLASSIFICATION

The GB hepatitis viruses. Karayiannis P, et al. **J Viral Hepat** 1995;2(5):221–6 (17 ref.)

FLAVIVIRIDAE INFECTIONS

COMPLICATIONS

Infection with GB virus C in leprous patients in Japan. Egawa K, et al. **J Med Virol** 1996 Jun;49(2):110–4

FLAVIVIRUS

GENETICS

Expression and purification of the seven nonstructural proteins of the flavivirus Kunjin in the E. coli and the baculovirus expression systems. Khromykh AA, et al. **J Virol Methods** 1996 Sep;61(1–2):47–58

Secondary structure of the 3' untranslated region of flaviviruses: similarities and differences. Proutski V, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1194–202

Secondary structure of the 3'-noncoding region of flavivirus genomes: comparative analysis of base pairing probabilities. Rauscher S, et al. **RNA** 1997 Jul;3(7):779–91

Molecular epidemiology and evolution of mosquito-borne flaviviruses and alphaviruses enzootic in Australia. Mackenzie JS, et al. **Virus Genes** 1995;11(2–3):225–37 (57 ref.)

Complete sequence of two tick-borne flaviviruses isolated from Siberia and the UK: analysis and significance of the 5' and 3'-UTRs. Gritsun TS, et al. **Virus Res** 1997 May; 49(1):27–39

IMMUNOLOGY

Japanese encephalitis vaccine in travellers. Is wider use prudent? Jelinek T, et al. **Drug Saf** 1997 Mar;16(3):153–6

Flavivirus-induced up-regulation of MHC class I antigens; implications for the induction of CD8+ T-cell-mediated autoimmunity. Lobigs M, et al. **Immunol Rev** 1996 Aug; 152:5–19 (67 ref.)

Evaluation of monoclonal antibodies for generic detection of flaviviruses by ELISA. Brown JM, et al. **J Virol Methods** 1996 Dec;62(2):143–51

Poxvirus-based Japanese encephalitis vaccine candidates induce JE virus-specific CD8+ cytotoxic T lymphocytes in mice. Konishi E, et al. **Virology** 1997 Jan 20; 227(2):353–60

PHYSIOLOGY

[Flavivirus RNA replication and involvement of host factors] Takegami T. **Uirusu** 1996 Dec;46(2):91–7 (35 ref.) **(Jpn)**

FLAVIVIRUS INFECTIONS

DIAGNOSIS

Evaluation of monoclonal antibodies for generic detection of flaviviruses by ELISA. Brown JM, et al. **J Virol Methods** 1996 Dec;62(2):143–51

Detection of flaviviruses by reverse transcriptase-polymerase chain reaction with the universal primer set. Meiyu F, et al. **Microbiol Immunol** 1997;41(3):209–13

DRUG THERAPY

[Effectiveness of the interferon inducers ridostin and camedon in prevention and treatment of experimental alpha- and flavivirus infections] Barinskiĭ IF, et al. **Vopr Virusol** 1996 May-Jun;41(3):133–5 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

[Effectiveness of the interferon inducers ridostin and camedon in prevention and treatment of experimental alpha- and flavivirus infections] Barinskiĭ IF, et al. **Vopr Virusol** 1996 May-Jun;41(3):133–5 (Eng. Abstr.) **(Rus)**

FLAVOBACTERIUM

Recurrent cellulitis and bacteremia caused by Flavobacterium odoratum. Bachman KH, et al. **Clin Infect Dis** 1996 Jun;22(6):1112–3

Flavobacterium indologenes bacteremia: clinical and microbiological characteristics. Hsueh PR, et al. **Clin Infect Dis** 1996 Sep;23(3):550–5

Immunization with bacterial antigens: Flavobacterium and Flexibacter infections. Bernardet JF. **Dev Biol Stand** 1997; 90:179–88 (46 ref.)

Flavobacterium meningosepticum: an unusual pathogen [letter] Ramachandran VG, et al. **Indian Pediatr** 1996 Aug; 33(8):705

Chryseobacterium meningosepticum: an emerging pathogen among immunocompromised adults. Report of 6 cases and literature review. Bloch KC, et al. **Medicine (Baltimore)** 1997 Jan;76(1):30–41 (84 ref.)

CHEMISTRY

Adjuvanticity of an ornithine-containing lipid of Flavobacterium meningosepticum as a candidate vaccine adjuvant. Kato H, et al. **Microbiol Immunol** 1997; 41(2):101–6

CLASSIFICATION

Emendation of the genus Planococcus and transfer of Flavobacterium okeanokoites Zobell and Upham 1944 to the genus Planococcus as Planococcus okeanokoites comb. nov. Nakagawa Y, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):866–70

Phylogenetic position of Riemerella anatipestifer based on 16S rRNA gene sequences. Subramaniam S, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):562–5

DRUG EFFECTS

Antimicrobial susceptibility of flavobacteria as determined by agar dilution and disk diffusion methods. Chang JC, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1301–6

Comparison of Etest and agar dilution method for antimicrobial susceptibility testing of Flavobacterium isolates. Hsueh PR, et al. **J Clin Microbiol** 1997 Apr; 35(4):1021–3

ENZYMOLOGY

Prolyl aminopeptidase gene from Flavobacterium meningosepticum: cloning, purification of the expressed enzyme, and analysis of its sequence. Kitazono A, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):35–41

A comparative analysis of the primary sequences and characteristics of heparinases I, II, and III from Flavobacterium heparinum. Godavarti R, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):770–7

Opposite effects of basic fibroblast growth factor and heparin on heparin/heparan sulfate degrading enzymes from Flavobacterium heparinum. Cavari S, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):823–31

Purification and characterization of 2,6-dichloro-p-hydroquinone chlorohydrolase from Flavobacterium sp. strain ATCC 39723. Lee JY, et al. **J Bacteriol** 1997 Mar;179(5):1521–4

GENETICS

Isolation of a gene encoding cysteine synthase from Flavobacterium K3-15. Müller R, et al. **FEMS Microbiol Lett** 1996 Mar 1;136(3):305–8

Isolation and characterization of the carotenoid biosynthesis genes of Flavobacterium sp. strain R1534. Pasamontes L,

FLAVOBACTERIUM

et al. **Gene** 1997 Jan 31;185(1):35–41

Phylogenetic position of Riemerella anatipestifer based on 16S rRNA gene sequences. Subramaniam S, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):562–5

An isoamylase with neutral pH optimum from a Flavobacterium species: cloning, characterization and expression of the iam gene. Krohn BM, et al. **Mol Gen Genet** 1997 May 20;254(5):469–78

IMMUNOLOGY

Comparison of whole-cell antigens of pressure- and formalin-killed Flexibacter columnaris from channel catfish (Ictalurus punctatus). Bader JA, et al. **Am J Vet Res** 1997 Sep;58(9):985–8

ISOLATION & PURIFICATION

Comparison of whole-cell antigens of pressure- and formalin-killed Flexibacter columnaris from channel catfish (Ictalurus punctatus). Bader JA, et al. **Am J Vet Res** 1997 Sep;58(9):985–8

Shieh medium supplemented with tobramycin for selective isolation of Flavobacterium columnare (Flexibacter columnaris) from diseased fish. Decostere A, et al. **J Clin Microbiol** 1997 Jan;35(1):322–4

Clinical and microbiological characteristics of Flavobacterium indologenes infections associated with indwelling devices. Hsueh PR, et al. **J Clin Microbiol** 1996 Aug;34(8):1908–13

Sphingobacterium multivorum septicemia: a case report. Areekul S, et al. **J Med Assoc Thai** 1996 Jun;79(6):395–8

Flavobacterium indologenes keratitis. Lu PC, et al. **Ophthalmologica** 1997;211(2):98–100

[Meningitis caused by Flavobacterium meningosepticum in an adult (letter)] Bascuñana A, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):394–5 **(Spa)**

METABOLISM

Complete microbial degradation of both enantiomers of the chiral herbicide mecoprop [(RS)-2-(4-chloro-2-methylphenoxy)propionic acid] in an enantioselective manner by Sphingomonas herbicidovorans sp. nov. Zipper C, et al. **Appl Environ Microbiol** 1996 Dec; 62(12):4318–22

Hydrolysis of imipenem, meropenem, ceftazidime, and cefepime by multiresistant nosocomial strains of Sphingobacterium multivorum [letter] Blahová J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):178–80

Isolation and characterization of a new arsenic methylating bacterium from soil. Honschopp S, et al. **Microbiol Res** 1996 Mar;151(1):37–41

[A new metabolite with fungistatic and bacteriostatic activity, produced by strain L-30 of Flavobacterium sp.] Shenin IuD, et al. **Antibiot Khimioter** 1996 May;41(5):6–12 (Eng. Abstr.) **(Rus)**

FLAVOBACTERIUM MENINGOSEPTICUM see **FLAVOBACTERIUM**

FLAVODOXIN

CHEMISTRY

Encapsulation of flavodoxin in reverse micelles. Andrade S, et al. **Biochem Biophys Res Commun** 1997 May 29; 234(3):651–4

Regulation of oxidation-reduction potentials through redox-linked ionization in the Y98H mutant of the Desulfovibrio vulgaris [Hildenborough] flavodoxin: direct proton nuclear magnetic resonance spectroscopic evidence for the redox-dependent shift in the pKa of Histidine-98. Chang FC, et al. **Biochemistry** 1997 Jul 22;36(29):9013–21

Control of oxidation-reduction potentials in flavodoxin from Clostridium beijerinckii: the role of conformation changes. Ludwig ML, et al. **Biochemistry** 1997 Feb 11;36(6):1259–80

The cumulative electrostatic effect of aromatic stacking interactions and the negative electrostatic environment of the flavin mononucleotide binding site is a major determinant of the reduction potential for the flavodoxin from Desulfovibrio vulgaris [Hildenborough]. Zhou Z, et al. **Biochemistry** 1996 Dec 17;35(50):15980–8

One-electron photo-oxidation of reduced Desulfovibrio vulgaris flavodoxin on laser excitation at 355 nm. El Hanine-Lmoumene C, et al. **Biochim Biophys Acta** 1997 Apr 25;1339(1):97–100

NMR assignments, secondary structure and hydration of oxidized Escherichia coli flavodoxin. Ponstingl H, et al. **Eur J Biochem** 1997 Mar 1;244(2):384–99

Conformational stability of apoflavodoxin. Genzor CG, et al. **Protein Sci** 1996 Jul;5(7):1376–88

GENETICS

Transcriptional regulation of a second flavodoxin gene from Klebsiella pneumoniae. Achenbach LA, et al. **Gene** 1997 Jul 31;194(2):235–40

ISOLATION & PURIFICATION

Flavodoxin from Wolinella succinogenes. Biel S, et al. **Arch Microbiol** 1996 Aug;166(2):122–7

METABOLISM

Interaction of Escherichia coli cobalamin-dependent methionine synthase and its physiological partner flavodoxin: binding of flavodoxin leads to axial ligand dissociation from the cobalamin cofactor. Hoover DM, et al. **Biochemistry** 1997 Jan 7;36(1):127–38

Evaluation of the electrostatic effect of the 5'-phosphate of the flavin mononucleotide cofactor on the oxidation--reduction potentials of the flavodoxin from desulfovibrio vulgaris (Hildenborough). Zhou Z, et al. **Biochemistry** 1996 Sep 24;35(38):12443–54

The cumulative electrostatic effect of aromatic stacking interactions and the negative electrostatic environment of the flavin mononucleotide binding site is a major determinant of the reduction potential for the flavodoxin from Desulfovibrio vulgaris [Hildenborough]. Zhou Z, et al. **Biochemistry** 1996 Dec 17;35(50):15980–8

Negatively charged anabaena flavodoxin residues (Asp144 and Glu145) are important for reconstitution of cytochrome P450 17alpha-hydroxylase activity. Jenkins CM, et al. **J Biol Chem** 1997 Sep 5;272(36):22509–13

The three-dimensional structure of flavodoxin reductase from Escherichia coli at 1.7 A resolution. Ingelman M, et al. **J Mol Biol** 1997 Apr 25;268(1):147–57

FLAVONES

Energy transfer to a proton-transfer fluorescence probe: tryptophan to a flavonol in human serum albumin. Sytnik A, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12959–63

[Biomolecular electronic device using an artificial flavocytochrome] Ueyama S, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(2):181–5 (14 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Taste responses to naringin, a flavonoid, and the acceptance of grapefruit juice are related to genetic sensitivity to 6-n-propylthiouracil. Drewnowski A, et al. **Am J Clin Nutr** 1997 Aug;66(2):391–7

Antioxidant flavonols and ischemic heart disease in a Welsh population of men: the Caerphilly Study. Hertog MG, et al. **Am J Clin Nutr** 1997 May;65(5):1489–94

Dietary flavonoids and the risk of lung cancer and other malignant neoplasms. Knekt P, et al. **Am J Epidemiol** 1997 Aug 1;146(3):223–30

Alcohol, ischemic heart disease, and the French paradox. Constant J. **Clin Cardiol** 1997 May;20(5):420–4 (51 ref.)

Nutrition and therapeutics. Samman S, et al. **Curr Opin Lipidol** 1996 Oct;7(5):U141–4

Antioxidant flavonols and coronary heart disease risk [letter] Hertog MG, et al. **Lancet** 1997 Mar 8;349(9053):699

Effects of co-administration of butylated hydroxytoluene, butylated hydroxyanisole and flavonoids on the activation of mutagens and drug-metabolizing enzymes in mice. Sun B, et al. **Toxicology** 1997 Sep 26;122(1-2):61–72

ANALYSIS

Determination of plant polyphenols in Danish foodstuffs by HPLC-UV and LC-MS detection. Justesen U, et al. **Cancer Lett** 1997 Mar 19;114(1-2):165–7

Flavonoids and phenolic acids in selected berries. Törrönen R, et al. **Cancer Lett** 1997 Mar 19;114(1-2):191–2

Estrogenic and antiproliferative properties of genistein and other flavonoids in human breast cancer cells in vitro. Zava DT, et al. **Nutr Cancer** 1997;27(1):31–40

[Determination of genkwanin in flos Genkwa by HPLC] Zhang B, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr; 21(4):237, 253, 256 (Eng. Abstr.) **(Chi)**

BIOSYNTHESIS

Apparent redundancy in myb gene function provides gearing for the control of flavonoid biosynthesis in antirrhinum flowers. Moyano E, et al. **Plant Cell** 1996 Sep;8(9):1519–32

Regulation of flavonol biosynthesis during anther and pistil development, and during pollen tube growth in Solanum tuberosum. van Eldik GJ, et al. **Plant J** 1997 Jan; 11(1):105–13

BLOOD

Determination of naringin and naringenin in human plasma by high-performance liquid chromatography. Ishii K, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30;683(2):225–9

CHEMICAL SYNTHESIS

Synthesis and antitumour activity of new derivatives of flavone-8-acetic acid (FAA). Part 1: 6-Methyl derivatives. Aitken RA, et al. **Arch Pharm (Weinheim)** 1996 Nov; 329(11):489–97

Synthesis and antitumour activity of new derivatives of flavone-8-acetic acid (FAA). Part 2: Ring-substituted derivatives. Aitken RA, et al. **Arch Pharm (Weinheim)** 1997 Jul;330(7):215–24

Novel bioconversions for the production of designer antioxidant and colourant flavonoids using polyphenol oxidases. Ridgway T, et al. **Biotechnol Genet Eng Rev** 1997; 14:165–90 (117 ref.)

CHEMISTRY

Glycosylated flavones as selective inhibitors of topoisomerase IV. Bernard FX, et al. **Antimicrob Agents Chemother** 1997 May;41(5):992–8

Peroxynitrite scavenging by flavonoids. Haenen GR, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):591–3

The flavonols quercetin, rutin and morin in DNA solution: UV-vis dichroic (and mid-infrared) analysis explain the possible association between the biopolymer and a nucleophilic vegetable-dye. Solimani R. **Biochim Biophys Acta** 1997 Aug 29;1336(2):281–94

Antioxidant and prooxidant behavior of flavonoids: structure-activity relationships. Cao G, et al. **Free Radic Biol Med** 1997;22(5):749–60

Hydrogen bond formation as basis for radical scavenging activity: a structure-activity study of C-methylated dihydrochalcones from Myrica gale and structurally related acetophenones. Mathiesen L, et al. **Free Radic Biol Med** 1997;22(1-2):307–11

Molecular electrostatic potential mapping and structure-activity relationship for 3-methoxy flavones. Santhosh C, et al. **Indian J Biochem Biophys** 1996 Dec; 33(6):458–64

Interaction of 5,7-dihydroxy-4'-methoxyflavone with a multisubunit protein, carmin: thermodynamics and kinetics of interaction. Rao KS, et al. **Int J Pept Protein Res** 1996 May;47(5):323–32

Mechanism of catechin chemiluminescence in the presence of active oxygen. Yoshiki Y, et al. **J Biolumin Chemilumin** 1996 May-Jun;11(3):131–6

Parenteral formulation of Flavopiridol (NSC-649890). Dannenfelser RM, et al. **PDA J Pharm Sci Technol** 1996 Nov-Dec;50(6):356–9

Application of the electrotopological state index to QSAR analysis of flavone derivatives as HIV-1 integrase inhibitors. Buolamwini JK, et al. **Pharm Res** 1996 Dec; 13(12):1892–5

Lipophilic flavonoids from Orthosiphon spicatus prevent oxidative inactivation of 15-lipoxygenase. Lyckander IM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Apr; 54(4):239–46

ISOLATION & PURIFICATION

Separation of naphthalene and flavone derivatives by micellar electrokinetic chromatography with double- and triple-chain surfactants. Harino H, et al. **J Chromatogr A** 1996 Nov 29;755(1):147–51

Characterization of flavonoids in extracts from four species of Epimedium by micellar electrokinetic capillary chromatography with diode-array detection. Liang HR, et al. **J Chromatogr Sci** 1997 Mar;35(3):117–25

Flavonol and chalcone ester glycosides from Bidens leucantha. De Tommasi N, et al. **J Nat Prod** 1997 Mar; 60(3):270–3

Adenosine-1 active ligands: cirsimarin, a flavone glycoside from Microtea debilis. Hasrat JA, et al. **J Nat Prod** 1997 Jun;60(6):638–41

Isolation of two flavonoids from Tanacetum microphyllum as PMA-induced ear edema inhibitors. Martinez J, et al. **J Nat Prod** 1997 Feb;60(2):142–4

Five new anthocyanins, ternatins A3, B4, B3, B2, and D2, from Clitoria ternatea flowers. Terahara N, et al. **J Nat Prod** 1996 Feb;59(2):139–44

DNA topoisomerase I inhibitors: cytotoxic flavones from Lethedon tannaensis. Zahir A, et al. **J Nat Prod** 1996 Jul; 59(7):701–3

Phenolic and antibacterial constituents of Vahlia capensis [letter] Majinda RR, et al. **Planta Med** 1997 Jun; 63(3):268–70

[Flavone constituents in the seeds of Sophora vicii folia Hance] Wang X, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Mar;21(3):165–6, 191 (Eng. Abstr.) **(Chi)**

[The constituents of Taxillus kaempferi and the host, Pinus thunbergii. I. Catechins and flavones of Taxillus kaempferi] Konishi T, et al. **Yakugaku Zasshi** 1996 Feb;116(2):148–57 (Eng. Abstr.) **(Jpn)**

METABOLISM

A comparison of active site binding of 4-quinolones and novel flavone gyrase inhibitors to DNA gyrase. Hilliard JJ, et al. **Adv Exp Med Biol** 1995;390:59–69

Phytoalexin production by amino acid conjugates of jasmonic acid through induction of naringenin-7-O-methyltransferase, a key enzyme on phytoalexin biosynthesis in rice (Oryza sativa L.). Tamogami S, et al. **FEBS Lett** 1997 Jan 20;401(2-3):239–42

Identification of Gingko biloba flavonol metabolites after oral administration to humans. Pietta PG, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):249–55

Identification of flavonoid metabolites after oral administration to rats of a Ginkgo biloba extract. Pietta PG, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3; 673(1):75–80

Extraordinary stability of IgE-binding Parietaria pollen allergens in relation to chemically bound flavonoids. González Romano ML, et al. **Mol Immunol** 1996 Dec; 33(17-18):1287–93

cDNA cloning and characterization of a 3'/5'-O-methyltransferase for partially methylated flavonols from Chrysosplenium americanum. Gauthier A,

et al. **Plant Mol Biol** 1996 Dec;32(6):1163–9

Flavonols are not essential for fertilization in Arabidopsis thaliana. Ylstra B, et al. **Plant Mol Biol** 1996 Dec; 32(6):1155–8

PHARMACOKINETICS

In vivo and in vitro percutaneous absorption of cancer preventive flavonoid apigenin in different vehicles in mouse skin. Li B, et al. **Pharm Res** 1996 Nov;13(11):1710–5

Influence of vehicle, distant topical delivery, and biotransformation on the chemopreventive activity of apigenin, a plant flavonoid, in mouse skin. Li B, et al. **Pharm Res** 1996 Oct;13(10):1530–4

PHARMACOLOGY

A comparison of active site binding of 4–quinolones and novel flavone gyrase inhibitors to DNA gyrase. Hilliard JJ, et al. **Adv Exp Med Biol** 1995;390:59–69

Inhibition of HIV activation in latently infected cells by flavonoid compounds. Critchfield JW, et al. **AIDS Res Hum Retroviruses** 1996 Jan 1;12(1):39–46

The anti–inflammatory activity of Scutellaria rivularis extracts and its active components, baicalin, baicalein and wogonin. Lin CC, et al. **Am J Chin Med** 1996;24(1):31–6

Effects of baicalein on prostanoid generation from the lung and contractile responses of the trachea in guinea pig. Miyamoto K, et al. **Am J Chin Med** 1997;25(1):37–50

Green tea catechins (EGCG and EGC) have modulating effects on the activity of doxorubicin in drug–resistant cell lines. Stammler G, et al. **Anticancer Drugs** 1997 Mar; 8(3):265–8

Glycosylated flavones as selective inhibitors of topoisomerase IV. Bernard FX, et al. **Antimicrob Agents Chemother** 1997 May;41(5):992–8

Synthesis and antitumour activity of new derivatives of flavone–8–acetic acid (FAA). Part 2: Ring–substituted derivatives. Aitken RA, et al. **Arch Pharm (Weinheim)** 1997 Jul;330(7):215–24

Selective inhibition of tumor necrosis factor–induced vascular cell adhesion molecule–1 gene expression by a novel flavonoid. Lack of effect on transcription factor NF–kappa B. Wölle J, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1501–8

Flavone acetic acid stimulates nitric oxide and peroxynitrite production in subcutaneous mouse tumors. Harris SR, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):509–14

Differential effects of a mitogen–activated protein kinase kinase inhibitor on human neutrophil responses to chemotactic factors. Kuroki M, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):474–7

Inhibition of microsomal lipid peroxidation by baicalein: a possible formation of an iron–baicalein complex. Gao D, et al. **Biochem Mol Biol Int** 1996 May;39(2):215–25

Evidence for antiradical and antioxidant properties of four biologically active N,N–diethylaminoethyl ethers of flavanone oximes: a comparison with natural polyphenolic flavonoid (rutin) action. Metodiewa D, et al. **Biochem Mol Biol Int** 1997 Apr;41(5):1067–75

Relationship between flavonoid structure and inhibition of phosphatidylinositol 3–kinase: a comparison with tyrosine kinase and protein kinase C inhibition. Agullo G, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1649–57

Analysis of structural requirements for Ah receptor antagonist activity: ellipticines, flavones, and related compounds. Gasiewicz TA, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1787–803

Morelloflavone, a novel biflavonoid inhibitor of human secretory phospholipase A2 with anti–inflammatory activity [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1946] Gil B, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):733–40

Substituted flavones as aryl hydrocarbon (Ah) receptor agonists and antagonists. Lu YF, et al. **Biochem Pharmacol** 1996 Apr 26;51(8):1077–87

Effect of flavones on glucose–induced changes in human serum albumen. Coussons PJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):397S

Modulation of human platelet function by food flavonoids. Kelly C, et al. **Biochem Soc Trans** 1996 May;24(2):197S

Effect of flavonoids on arachidonic acid metabolism and prostacyclin (PGI2) formation in human vascular endothelial cells. Khaza'ai H, et al. **Biochem Soc Trans** 1996 May;24(2):173S

The effect of various dietary flavonoids on the susceptibility of low density lipoproteins to oxidation in vitro using both metallic and non–metallic oxidising agents. McAnlis GT, et al. **Biochem Soc Trans** 1997 Feb;25(1):142S

Antioxidant action of novel derivatives of the apple–derived flavonoid phloridzin compared to oestrogen: relevance to potential cardioprotective action. Ridgway T, et al. **Biochem Soc Trans** 1997 Feb;25(1):106S

Influence of the dietary flavonoid quercetin on the cardioprotective antioxidant action of oestrogen and phytoestrogens. Wiseman H, et al. **Biochem Soc Trans** 1997 Feb;25(1):108S

Inhibition of monkey sperm hyaluronidase activity and heterologous cumulus penetration by flavonoids. Li MW, et al. **Biol Reprod** 1997 Jun;56(6):1383–9

Flavonoids (apigenin, tangeretin) counteract tumor promoter–induced inhibition of intercellular communication of rat liver epithelial cells. Chaumontet C, et al. **Cancer Lett** 1997 Mar 19;114(1–2):207–10

Antiproliferative potency of structurally distinct dietary flavonoids on human colon cancer cells. Kuo SM. **Cancer Lett** 1996 Dec 20;110(1–2):41–8

Cytotoxic synergy between flavopiridol (NSC 649890, L86–8275) and various antineoplastic agents: the importance of sequence of administration. Bible KC, et al. **Cancer Res** 1997 Aug 15;57(16):3375–80

Flavopiridol: a cytotoxic flavone that induces cell death in noncycling A549 human lung carcinoma cells. Bible KC, et al. **Cancer Res** 1996 Nov 1;56(21):4856–61

Flavonoids, dietary–derived inhibitors of cell proliferation and in vitro angiogenesis. Fotsis T, et al. **Cancer Res** 1997 Jul 15;57(14):2916–21

Effect of PD 098059, a specific inhibitor of mitogen–activated protein kinase kinase, on urokinase expression and in vitro invasion. Simon C, et al. **Cancer Res** 1996 Dec 1; 56(23):5369–74

The chemopreventive flavonoid apigenin induces G2/M arrest in keratinocytes. Lepley DM, et al. **Carcinogenesis** 1996 Nov;17(11):2367–75

Selective inhibition of rat heart cAMP phosphodiesterases by lipophilic C–methyl–2–phenyl–4H–1–benzopyran–4–ones (C–methylflavones). Gaillard P, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1571–6

Displacement of T4 from transthyretin by the synthetic flavonoid EMD 21388 results in increased production of T3 from T4 in rat dams and fetuses. Pedraza P, et al. **Endocrinology** 1996 Nov;137(11):4902–14

Different tissue distribution, elimination, and kinetics of thyroxine and its conformational analog, the synthetic flavonoid EMD 49209 in the rat. Schröder–van der Elst JP, et al. **Endocrinology** 1997 Jan;138(1):79–84

Involvement of monoamine oxidase and noradrenaline uptake in the positive chronotropic effects of apigenin in rat atria. Lorenzo PS, et al. **Eur J Pharmacol** 1996 Sep 26; 312(2):203–7

Anxioselective properties of 6,3'–dinitroflavone, a high–affinity benzodiazepine receptor ligand. Wolfman C, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):23–30

Insulin activates a PD 098059–sensitive kinase that is involved in the regulation of p70S6K and PHAS–I. Scott PH, et al. **FEBS Lett** 1997 Jun 9;409(2):171–6

Green tea catechins such as (–)–epicatechin and (–)–epigallocatechin accelerate Cu2+–induced low density lipoprotein oxidation in propagation phase. Yamanaka N, et al. **FEBS Lett** 1997 Jan 20;401(2–3):230–4

Inhibition of the mutagenicity of 2–nitrofluorene, 3–nitrofluoranthene and 1–nitropyrene by flavonoids, coumarins, quinones and other phenolic compounds. Edenharder R, et al. **Food Chem Toxicol** 1997 Mar–Apr; 35(3–4):357–72

Antioxidant and prooxidant behavior of flavonoids: structure–activity relationships. Cao G, et al. **Free Radic Biol Med** 1997;22(5):749–60

Antioxidant properties of hydroxy–flavones. Cotelle N, et al. **Free Radic Biol Med** 1996;20(1):35–43

Pharmacological effects of selected flavonoids on rat isolated ileum: structure–activity relationship. Hammad HM, et al. **Gen Pharmacol** 1997 May;28(5):767–71

Effects of flavonoids on rat aortic smooth muscle contractility: structure–activity relationships. Herrera MD, et al. **Gen Pharmacol** 1996 Mar;27(2):273–7

Biological effects of myricetin. Ong KC, et al. **Gen Pharmacol** 1997 Aug;29(2):121–6 (75 ref.)

Mitogen–activated protein kinase activation is involved in platelet–derived growth factor–directed migration by vascular smooth muscle cells. Graf K, et al. **Hypertension** 1997 Jan;29(1 Pt 2):334–9

Specific regulation of HSPs in human tumor cell lines by flavonoids. Morino M, et al. **In Vivo** 1997 May–Jun; 11(3):265–70

Inhibition of lysoPAF acetyltransferase activity by flavonoids. Yanoshita R, et al. **Inflamm Res** 1996 Nov; 45(11):546–9

Antiviral activity of 5,6,7–trimethoxyflavone and its potentiation of the antiherpes activity of acyclovir. Hayashi K, et al. **J Antimicrob Chemother** 1997 Jun;39(6):821–4

Two discrete regions of interleukin–2 (IL2) receptor beta independently mediate IL2 activation of a PD98059/rapamycin/wortmannin–insensitive Stat5a/b serine kinase. Kirken RA, et al. **J Biol Chem** 1997 Jun 13; 272(24):15459–65

Stimulated mitogen–activated protein kinase is necessary but not sufficient for the mitogenic response to angiotensin II. A role for phospholipase D. Wilkie N, et al. **J Biol Chem** 1996 Dec 13;271(50):32447–53

Effects of baicalein isolated from Scutellaria baicalensis on interleukin 1 beta– and tumor necrosis factor alpha–induced adhesion molecule expression in cultured human umbilical vein endothelial cells. Kimura Y, et al. **J Ethnopharmacol** 1997 Jun;57(1):63–7

Antiviral activity of galangin isolated from the aerial parts of Helichrysum aureonitens. Meyer JJ, et al. **J Ethnopharmacol** 1997 Apr;56(2):165–9

Flavones with antibacterial activity against cariogenic bacteria. Sato M, et al. **J Ethnopharmacol** 1996 Nov; 54(2–3):171–6

Effects on cultured neonatal mouse calvaria of the flavonoids isolated from Boerhaavia repens. Li J, et al. **J Nat Prod** 1996 Nov;59(11):1015–8

Selective cytotoxicity of ginkgetin from Selaginella moellendorffii. Sun CM, et al. **J Nat Prod** 1997 Apr; 60(4):382–4

DNA topoisomerase I inhibitors: cytotoxic flavones from Lethedon tannaensis. Zahir A, et al. **J Nat Prod** 1996 Jul; 59(7):701–3

Inhibition of p42 and p44 mitogen–activated protein kinase activity by PD98059 does not suppress nerve growth factor–induced survival of sympathetic neurones. Virdee K, et al. **J Neurochem** 1996 Nov;67(5):1801–5

Evaluation of properties of apigenin and [G–3H]apigenin and analytic method development. Li B, et al. **J Pharm Sci** 1997 Jun;86(6):721–5

Serotonin activates the mitogen–activated protein kinase pathway in vascular smooth muscle: use of the mitogen–activated protein kinase kinase inhibitor PD098059. Watts SW. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1541–50

Time course of induction of rat hepatic drug–metabolizing enzyme activities following dietary administration of flavonoids. Siess MH, et al. **J Toxicol Environ Health** 1996 Dec 6;49(5):481–96

Poliovirus infection and expression of the poliovirus protein 2B provoke the disassembly of the Golgi complex, the organelle target for the antipoliovirus drug Ro–090179. Sandoval IV, et al. **J Virol** 1997 Jun;71(6):4679–93

Apigenin inhibits tumor necrosis factor–induced intercellular adhesion molecule–1 upregulation in vivo. Panés J, et al. **Microcirculation** 1996 Sep;3(3):279–86

Induction of p21/WAF1 and G1 cell–cycle arrest by the chemopreventive agent apigenin. Lepley DM, et al. **Mol Carcinog** 1997 Jun;19(2):74–82

New Rhizobium leguminosarum flavonoid–induced proteins revealed by proteome analysis of differentially displayed proteins. Guerreiro N, et al. **Mol Plant Microbe Interact** 1997 May;10(4):506–16

The effect of dietary flavonoids on DNA damage (strand breaks and oxidised pyrimdines) and growth in human cells. Duthie SJ, et al. **Mutat Res** 1997 Apr 24;390(1–2):141–51

Blockade of protein kinase C is involved in the inhibition by cycloheterophyllin of neutrophil superoxide anion generation. Wang JP, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):551–8

Inhibition of human breast cancer cell proliferation and delay of mammary tumorigenesis by flavonoids and citrus juices. So FV, et al. **Nutr Cancer** 1996;26(2):167–81

Estrogenic and antiproliferative properties of genistein and other flavonoids in human breast cancer cells in vitro. Zava DT, et al. **Nutr Cancer** 1997;27(1):31–40

Increased plasma serotonin following treatment with flavone–8–acetic acid, 5,6–dimethylxanthenone–4–acetic acid, vinblastine, and colchicine: relation to vascular effects. Baguley BC, et al. **Oncol Res** 1997;9(2):55–60

Preventive effect of natural and synthetic antioxidants on lipid peroxidation in the mammalian eye. Ueda T, et al. **Ophthalmic Res** 1996;28(3):184–92

Inhibition of benzodiazepine binding in vitro by amentoflavone, a constituent of various species of Hypericum. Baureithel KH, et al. **Pharm Acta Helv** 1997 Jun;72(3):153–7

Inhibition of low density lipoprotein oxidation by myrigalone B, a naturally occurring flavonoid. Mathiesen L, et al. **Pharmacol Toxicol** 1996 Mar;78(3):143–6

Pinobanksin inhibits peroxidation of low density lipoprotein and it has electron donor properties reducing alpha–tocopherol radicals. Ondriaš K, et al. **Pharmazie** 1997 Jul;52(7):566–7

Inhibition of phospholipase C gamma 1 by the prenylated flavonoids from Sophora flavescens [letter] Lee HS, et al. **Planta Med** 1997 Jun;63(3):266–8

Inhibition of phospholipase C gamma 1 activity by amentoflavone isolated from Selaginella tamariscina. Lee HS, et al. **Planta Med** 1996 Aug;62(4):293–6

Antihepatotoxic activity of icariin, a major constituent of Epimedium koreanum. Lee MK, et al. **Planta Med** 1995 Dec;61(6):523–6

Antioxidant activity of fruit exudate and C–methylated dihydrochalcones from Myrica gale. Mathiesen L, et al. **Planta Med** 1995 Dec;61(6):515–8

Radical scavenger activity of three flavonoid metabolites studied by inhibition of chemiluminescence in human PMNs. Merfort I, et al. **Planta Med** 1996 Aug;62(4):289–92

Investigations on the gastroprotective and antidiarrhoeal properties of ternatin, a tetramethoxyflavone from Egletes viscosa. Rao VS, et al. **Planta Med** 1997 Apr;63(2):146–9

Casein kinase II is a selective target of HIV–1 transcriptional inhibitors. Critchfield JW, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6110–5

Prostanoids and free radicals in Cl4C–induced hepatotoxicity in rats: effect of astilbin. Closa D, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):331–4

Protective effect of flavonoids on doxorubicin–induced cardiotoxicity. Sadzuka Y, et al. **Toxicol Lett** 1997 Jun 16; 92(1):1–7

Healing process induced by a flavonic fraction of Bidens aurea on chronic gastric lesion in rat. Role of angiogenesis and neutrophil inhibition. Martin Calero M, et al. **Z Naturforsch [C]** 1996 Jul–Aug;51(7–8):570–7

Antiulcerogenicity of the flavonoid fraction from Erica

FLAVONES

andevalensis Cabezudo-Rivera. Reyes M, et al. **Z Naturforsch [C]** 1996 Jul-Aug;51(7-8):563-9

[Bioactive constituents of Chinese natural medicines. III. Absolute stereostructures of new dihydroflavonols, hovenitins I, II, and III, isolated from hoveniae semen seu fructus, the seed and fruit of Hovenia dulcis THUNB. (Rhamnaceae): inhibitory effect on alcohol-induced muscular relaxation and hepatoprotective activity] Yoshikawa M, et al. **Yakugaku Zasshi** 1997 Feb; 117(2):108-18 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Inhibition of ultraviolet light induced skin carcinogenesis in SKH-1 mice by apigenin, a plant flavonoid. Birt DF, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):85-91

Phytochemicals and cardiovascular disease. A statement for healthcare professionals from the American Heart Association. Howard BV, et al. **Circulation** 1997 Jun 3; 95(11):2591-3 (25 ref.)

Effects of (-)-epigallocatechin-3-O-gallate (green tea tannin) on the life span of stroke-prone spontaneously hypertensive rats. Uchida S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S302-3

The in vivo interaction between flavone acetic acid and hyperthermia. Horsman MR, et al. **Int J Hyperthermia** 1996 Nov-Dec;12(6):779-89

Influence of vehicle, distant topical delivery, and biotransformation on the chemopreventive activity of apigenin, a plant flavonoid, in mouse skin. Li B, et al. **Pharm Res** 1996 Oct;13(10):1530-4

TOXICITY

Assessing the estrogenic and dioxin-like activities of chemicals and complex mixtures using in vitro recombinant receptor-reporter gene assays. Balaguer P, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):216-22

Inhibition of thyroid peroxidase by dietary flavonoids. Divi RL, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):16-23

Lipid peroxidation and DNA damage induced by morin and naringenin in isolated rat liver nuclei. Sahu SC, et al. **Food Chem Toxicol** 1997 May;35(5):443-7

Lack of tumor-promoting effects of flavonoids: studies on rat liver preneoplastic foci and on in vivo and in vitro gap junctional intercellular communication. Chaumontet C, et al. **Nutr Cancer** 1996;26(3):251-63

Mechanisms of myricetin mutagenicity in V79 cells: involvement of radicalar species. Silva ID, et al. **Teratog Carcinog Mutagen** 1996;16(5):253-68

Comparative effects of flavonoids and model inducers on drug-metabolizing enzymes in rat liver. Canivenc-Lavier MC, et al. **Toxicology** 1996 Nov 15;114(1):19-27

URINE

Chromatographic identification of phenolic compounds in human urine following oral administration of the herbal medicines Daisaiko-to and Shosaiko-to. Li C, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):191-8

FLAVOPHOSPHOLIPOLS see **BAMBERMYCINS**

FLAVOPROTEINS

Heterodisulfide reductase from methanol-grown cells of Methanosarcina barkeri is not a flavoenzyme. Künkel A, et al. **Eur J Biochem** 1997 Feb 15;244(1):226-34

BIOSYNTHESIS

Fig1, an interleukin 4-induced mouse B cell gene isolated by cDNA representational difference analysis. Chu CC, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2507-12

CHEMISTRY

Flavin mononucleotide-binding domain of the flavoprotein component of the sulfite reductase from Escherichia coli. Coves J, et al. **Biochemistry** 1997 May 13;36(19):5921-8

Electron transfer across the O2- generating flavocytochrome b of neutrophils. Evidence for a transition from a low-spin state to a high-spin state of the heme iron component. Doussière J, et al. **Biochemistry** 1996 Oct 15; 35(41):13400-10

alphaT244M mutation affects the redox, kinetic, and in vitro folding properties of Paracoccus denitrificans electron transfer flavoprotein. Griffin KJ, et al. **Biochemistry** 1997 Apr 8;36(14):4194-202

Putative human blue-light photoreceptors hCRY1 and hCRY2 are flavoproteins. Hsu DS, et al. **Biochemistry** 1996 Nov 5;35(44):13871-7

Involvement of a flavin iminoquinone methide in the formation of 6-hydroxyflavin mononucleotide in trimethylamine dehydrogenase: a rationale for the existence of 8alpha-methyl and C6-linked covalent flavoproteins. Mewies M, et al. **Biochemistry** 1997 Jun 10;36(23):7162-8

An ultracentrifugal approach to quantitative characterization of the molecular assembly of a physiological electron-transfer complex: the interaction of electron-transferring flavoprotein with trimethylamine dehydrogenase. Wilson EK, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):393-9

The assimilatory nitrate reductase from the phototrophic bacterium, Rhodobacter capsulatus E1F1, is a flavoprotein. Blasco R, et al. **FEBS Lett** 1997 Sep 1;414(1):45-9

In vitro refolding and unfolding of subunits of electron-transferring flavoprotein: characterization of the folding intermediates and the effects of FAD and AMP on the folding reaction. Sato K, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):276-85

Characterization of an iron-sulfur flavoprotein from Methanosarcina thermophila. Latimer MT, et al. **J Biol Chem** 1996 Sep 27;271(39):24023-8

Determining covalent flavinylation. Decker K, et al. **Methods Enzymol** 1997;280:413-23

Three-dimensional structure of human electron transfer flavoprotein to 2.1-A resolution. Roberts DL, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14355-60

Unexpected genetic and structural relationships of a long-forgotten flavoenzyme to NAD(P)H:quinone reductase (DT-diaphorase) [published erratum appears in Proc Natl Acad Sci U S A 1997 May 27;94(11):5979] Zhao Q, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4; 94(5):1669-74

Crystallization and preliminary X-ray analysis of the flavoenzyme vanillyl-alcohol oxidase from Penicillium simplicissimum. Mattevi A, et al. **Proteins** 1997 Apr; 27(4):601-3

GENETICS

Isolation of Cry1Ab protein mutants of Bacillus thuringiensis by a highly efficient PCR site-directed mutagenesis system. Meza R, et al. **FEMS Microbiol Lett** 1996 Dec 15; 145(3):333-9

Purification and sequence analysis of 4-methyl-5-nitrocatechol oxygenase from Burkholderia sp. strain DNT. Haigler BE, et al. **J Bacteriol** 1996 Oct; 178(20):6019-24

Cloning and expression of the two genes coding for L-serine dehydratase from Peptostreptococcus asaccharolyticus: relationship of the iron-sulfur protein to both L-serine dehydratases from Escherichia coli. Hofmeister AE, et al. **J Bacteriol** 1997 Aug;179(15):4937-41

Cloning and characterization of sulfite dehydrogenase, two c-type cytochromes, and a flavoprotein of Paracoccus denitrificans GB17: essential role of sulfite dehydrogenase in lithotrophic sulfur oxidation. Wodara C, et al. **J Bacteriol** 1997 Aug;179(16):5014-23

PHH1, a novel gene from Arabidopsis thaliana that encodes a protein similar to plant blue-light photoreceptors and microbial photolyases. Hoffman PD, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):259-65

Analysis of fast neutron-generated mutants at the Arabidopsis thaliana HY4 locus. Bruggemann E, et al. **Plant J** 1996 Oct;10(4):755-60

Fig1, an interleukin 4-induced mouse B cell gene isolated by cDNA representational difference analysis. Chu CC, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2507-12

ISOLATION & PURIFICATION

Purification and characterization of flavoproteins and cytochromes from the yellow bioluminescence marine bacterium Vibrio fischeri strain Y1. Petushkov VN, et al. **Eur J Biochem** 1997 May 1;245(3):790-6

METABOLISM

Flavin mononucleotide-binding domain of the flavoprotein component of the sulfite reductase from Escherichia coli. Coves J, et al. **Biochemistry** 1997 May 13;36(19):5921-8

Electron transfer across the O2- generating flavocytochrome b of neutrophils. Evidence for a transition from a low-spin state to a high-spin state of the heme iron component. Doussière J, et al. **Biochemistry** 1996 Oct 15; 35(41):13400-10

alphaT244M mutation affects the redox, kinetic, and in vitro folding properties of Paracoccus denitrificans electron transfer flavoprotein. Griffin KJ, et al. **Biochemistry** 1997 Apr 8;36(14):4194-202

Functional interactions in cytochrome P450BM3. Fatty acid substrate binding alters electron-transfer properties of the flavoprotein domain. Murataliev MB, et al. **Biochemistry** 1996 Nov 26;35(47):15029-37

An exposed tyrosine on the surface of trimethylamine dehydrogenase facilitates electron transfer to electron transferring flavoprotein: kinetics of transfer in wild-type and mutant complexes. Wilson EK, et al. **Biochemistry** 1997 Jan 7;36(1):41-8

Gene overexpression, purification, and identification of a desulfurization enzyme from Rhodococcus sp. strain IGTS8 as a sulfide/sulfoxide monooxygenase. Lei B, et al. **J Bacteriol** 1996 Oct;178(19):5699-705

In vitro assembly of FAD, AMP, and the two subunits of electron-transferring flavoprotein: an important role of AMP related with the conformational change of the apoprotein. Sato K, et al. **J Biochem (Tokyo)** 1997 Mar; 121(3):477-86

The archaeal SoxABCD complex is a proton pump in Sulfolobus acidocaldarius. Gleissner M, et al. **J Biol Chem** 1997 Mar 28;272(13):8417-26

Reaction mechanism of Amphibacillus xylanus NADH oxidase/alkyl hydroperoxide reductase flavoprotein. Niimura Y, et al. **J Biol Chem** 1996 Nov 29; 271(48):30459-64

Syntheses and applications of flavin analogs as active site probes for flavoproteins. Murthy YV, et al. **Methods Enzymol** 1997;280:436-60

Light modulation of vegetative development. Chory J. **Plant Cell** 1997 Jul;9(7):1225-34 (100 ref.)

PHYSIOLOGY

A signal transducer for aerotaxis in Escherichia coli. Bibikov SI, et al. **J Bacteriol** 1997 Jun;179(12):4075-9

Effects of synergistic signaling by phytochrome A and cryptochrome1 on circadian clock-regulated catalase expression. Zhong HH, et al. **Plant Cell** 1997 Jun; 9(6):947-55

The blue-light receptor cryptochrome 1 shows functional dependence on phytochrome A or phytochrome B in Arabidopsis thaliana. Ahmad M, et al. **Plant J** 1997 Mar; 11(3):421-7

FLAVORING AGENTS

see related

PHARMACEUTIC AIDS

Mislabeled cherry syrup [letter] Wolff J. **Am J Health Syst Pharm** 1996 Jan 1;53(1):85-6

The FEMA GRAS assessment of alicyclic substances used as flavour ingredients. Adams TB, et al. **Food Chem Toxicol** 1996 Sep;34(9):763-828 (141 ref.)

ADMINISTRATION & DOSAGE

Estimating intakes of flavouring substances. Cadby P. **Food Addit Contam** 1996 May-Jun;13(4):453-60 (0 ref.)

ADVERSE EFFECTS

Cross-reactions in patch testing and photopatch testing with ketoprofen, thiaprophenic acid, and cinnamic aldehyde. Pigatto P, et al. **Am J Contact Dermat** 1996 Dec;7(4):220-3

Hypokalaemia and hypertension associated with use of liquorice flavoured chewing gum. de Klerk GJ, et al. **BMJ** 1997 Mar 8;314(7082):731-2

Sweeteners, dyes, and other excipients in vitamin and mineral preparations. Kumar A, et al. **Clin Pediatr (Phila)** 1996 Sep; 35(9):443-50 (28 ref.)

Occupational contact dermatitis from anethole in food handlers. García-Bravo B, et al. **Contact Dermatitis** 1997 Jul;37(1):38

Mutagenic heterocyclic aromatic amines (HAAs) in 'processed food flavour' samples. Stavric B, et al. **Food Chem Toxicol** 1997 Feb;35(2):185-97

[Migraine induced by vanillin (letter)] Saint Denis M, et al. **Presse Med** 1996 Dec 21;25(40):2043 **(Fre)**

ANALYSIS

Determination of benzo[a]pyrene in lipid-soluble liquid smoke (LSLS) by HPLC-FL. García Falcón MS, et al. **Food Addit Contam** 1996 Oct;13(7):863-70

CHEMISTRY

A review of the interactions between milk proteins and dairy flavor compounds. Hansen AP. **Adv Exp Med Biol** 1997; 415:67-76 (35 ref.)

Antisweet natural products. XII. Structures of sitakisosides XI-XX from Stephanotis lutchuensis Koidz. var. japonica. Yoshikawa K, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan; 45(1):62-7

Immunochemical detection of covalently modified protein adducts in livers of rats treated with methyleugenol. Gardner I, et al. **Chem Res Toxicol** 1996 Jun;9(4):713-21

Disastrous reflavorig of antibiotics [letter] Perrin JH. **Pediatrics** 1997 Sep;100(3 Pt 1):420

METABOLISM

An aminotransferase from Lactococcus lactis initiates conversion of amino acids to cheese flavor compounds. Yvon M, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):414-9

PHARMACOKINETICS

Pathways of metabolism of [1'-14C]-trans-anethole in the rat and mouse. Bounds SV, et al. **Drug Metab Dispos** 1996 Jul;24(7):717-24

PHARMACOLOGY

Salt enhances flavour by suppressing bitterness. Breslin PA, et al. **Nature** 1997 Jun 5;387(6633):563

TOXICITY

(E)-2-hexenal-induced DNA damage and formation of cyclic 1,N2-(1,3-propano)-2'-deoxyguanosine adducts in mammalian cells. Gölzer P, et al. **Chem Res Toxicol** 1996 Oct-Nov;9(7):1207-13

Cinnamyl anthranilate causes coinduction of hepatic microsomal and peroxisomal enzymes in mouse but not rat. Viswalingam A, et al. **Toxicol Appl Pharmacol** 1997 Feb; 142(2):338-47

FLAVOXATE

PHARMACOLOGY

Brain pertussis toxin-sensitive G proteins are involved in the

flavoxate hydrochloride-induced suppression of the micturition reflex in rats. Oka M, et al. **Brain Res** 1996 Jul 15;727(1-2):91-8

Effect of alpha 1-adrenoceptor antagonists on urinary bladder function in urethane-anesthetized rats. Sudoh K, et al. **Gen Pharmacol** 1997 Apr;28(4):521-4

Mechanisms of the suppression of the bladder activity by flavoxate. Kimura Y, et al. **Int J Urol** 1996 May;3(3):218-27

In-vivo whole bladder response to anticholinergic and musculotropic agents in spinal cord injured rats. Shenot PJ, et al. **J Spinal Cord Med** 1997 Jan;20(1):31-5

FLEAS

Tungiasis presenting with sterile pustular lesions on the hand [letter] Veraldi S, et al. **Acta Derm Venereol** 1996 Nov; 76(6):495

Use of injectable lufenuron for treatment of infestations of Ctenocephalides felis in cats. Franc M, et al. **Am J Vet Res** 1997 Feb;58(2):140-2

Plague foci in Viet Nam: zoological and parasitological aspects. Suntsov VV, et al. **Bull World Health Organ** 1997; 75(2):117-23

Wells' syndrome: vesiculobullous presentation and possible role of ectoparasites. Chang DK, et al. **Int J Dermatol** 1997 Apr;36(4):288-91

Tungiasis in New York. Mashek H, et al. **Int J Dermatol** 1997 Apr;36(4):276-8

Insecticide susceptibility of cat flea (Siphonaptera: Pulicidae) pupae. Dryden MW, et al. **J Econ Entomol** 1996 Apr; 89(2):421-7

Human disodium octaborate tetrahydrate exposure following carpet flea treatment is not associated with significant dermal absorption. Krieger RI, et al. **J Expo Anal Environ Epidemiol** 1996 Jul-Sep;6(3):279-88

Flea (Siphonaptera:Ceratophyllidae, hystrichopsyllidae) and tick (Acarina:Ixodidae) control on wood rats using host-targeted liquid permethrin in bait tubes. Gage KL, et al. **J Med Entomol** 1997 Jan;34(1):46-51

New records of human tungiasis in Mexico (Siphonaptera:Tungidae). Ibáñez-Bernal S, et al. **J Med Entomol** 1996 Nov;33(6):988-9

Insecticidal effects of the insect growth regulators methoprene and pyriproxyfen on the cat flea (Siphonaptera:Pulicidae). Kawada H, et al. **J Med Entomol** 1996 Sep;33(5):819-22

Factors affecting the seasonal abundance of ground squirrel and wood rat fleas (Siphonaptera) in San Diego County, California. Lang JD. **J Med Entomol** 1996 Sep; 33(5):790-804

The fleas (Siphonaptera) of Tennessee. Durden LA, et al. **J Vector Ecol** 1997 Jun;22(1):13-22

Prevalence of rat fleas in and around Delhi (India) area and their susceptibility status to insecticides. Kumar K, et al. **Jpn J Med Sci Biol** 1996 Apr;49(2):57-62

A circus flea [letter] Lerch MM, et al. **Lancet** 1997 Feb 1; 349(9048):364

A case of tungiasis. Lowry MA, et al. **Mil Med** 1996 Feb; 161(2):128-9

Susceptibility of the cat flea, Ctenocephalides felis (Siphonaptera: Pulicidae) to four pyrethroids. Franc M, et al. **Parasite** 1997 Mar;4(1):91-3

Host-habitat relations as an important determinant of spatial distribution of flea assemblages (Siphonaptera) on rodents in the Negev Desert. Krasnov BR, et al. **Parasitology** 1997 Feb;114 (Pt 2):159-73

Tiguvon spot-on and flea control in dogs and cats [letter] [see comments] Bell GD. **Vet Rec** 1997 Feb 8;140(6):159-60 . Comment in: Vet Rec 1997 Apr 12;140(15):407.

Duration of activity of imidacloprid, a novel adulticide for flea control, against Ctenocephalides felis on cats. Jacobs DE, et al. **Vet Rec** 1997 Mar 8;140(10):259-60

[Lice, fleas, ticks and ants: non-venomous apterous arthropods] **Med Trop (Mars)** 1996;56(3):238-40 **(Fre)**

[General practice case. Pulicosis (early reaction to flea bite)] Tietz A, et al. **Schweiz Rundsch Med Prax** 1997 Jun 11; 86(24):1038-40 **(Ger)**

[Test results on the insecticidal activity of Oradelt and Omait against rodent fleas] Chumakov IV, et al. **Med Parazitol (Mosk)** 1997 Jan-Mar;(1):55-8 (Eng. Abstr.) **(Rus)**

ANATOMY & HISTOLOGY

[Asymmetry of the chaetae in fleas (Citellophilus tesquorum) as a possible marker of their capacity for blocking] Korzun VM, et al. **Med Parazitol (Mosk)** 1997 Jan-Mar;(1):34-6 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

[The fleas of mammals from the Ucayali River basin (the Peruvian Amazonia)] Darskaia NF, et al. **Parazitologiia** 1996 Mar-Apr;30(2):187-90 (Eng. Abstr.) **(Rus)**

[The flea fauna of small mammals in Kostroma Province] Krylov DG. **Parazitologiia** 1996 Jan-Feb;30(1):19-26 (Eng. Abstr.) **(Rus)**

[Fleas of Insectivora in western and central Siberia] Sapegina VF. **Parazitologiia** 1996 Mar-Apr;30(2):105-12 (Eng. Abstr.) **(Rus)**

[The species composition of fleas (Siphonaptera) from northwestern Russia] Vashchenok VS. **Parazitologiia** 1996 Sep-Oct;30(5):410-24 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Effect of juvenile hormone and juvenile hormone mimics on sperm transfer from the testes of the male cat flea (Siphonaptera:Pulicidae). Dean SR, et al. **J Med Entomol** 1997 Jul;34(4):485-8

A novel approach to flea control on cats, using pyriproxyfen. Jacobs DE, et al. **Vet Rec** 1996 Dec 7;139(23):559-61

EMBRYOLOGY

Structure of the insect head as revealed by the EN protein pattern in developing embryos. Rogers BT, et al. **Development** 1996 Nov;122(11):3419-32

GROWTH & DEVELOPMENT

Effects of larval nutrition on the postembryonic development of Ctenocephalides felis felis (Siphonaptera:Pulicidae). Linardi PM, et al. **J Med Entomol** 1997 Jul;34(4):494-7

IMMUNOLOGY

Allergenic cross-reactivities in flea-reactive canine serum samples. Pucheu-Haston CM, et al. **Am J Vet Res** 1996 Jul;57(7):1000-5

Salivary antigens of the cat flea, Ctenocephalides felis felis. Lee SE, et al. **Parasite Immunol** 1997 Jan;19(1):13-9

MICROBIOLOGY

Flea-borne rickettsioses: ecologic considerations. Azad AF, et al. **Emerg Infect Dis** 1997 Jul-Sep;3(3):319-27 (27 ref.)

Experimental transmission of Bartonella henselae by the cat flea. Chomel BB, et al. **J Clin Microbiol** 1996 Aug; 34(8):1952-6

Rickettsia felis: a new species of pathogenic rickettsia isolated from cat fleas. Higgins JA, et al. **J Clin Microbiol** 1996 Mar;34(3):671-4

Transmission factors for insect-vectored microorganisms. Paskewitz SM. **Trends Microbiol** 1997 May;5(5):171-3

PATHOGENICITY

[The host-loyalty index of fleas, its analysis and importance in plague epizootiology] Kuznetsov AA. **Parazitologiia** 1997 May-Jun;31(3):193-200 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

The biology, ecology, and management of the cat flea. Rust MK, et al. **Annu Rev Entomol** 1997;42:451-73 (172 ref.)

Effect of temperature on cat flea (Siphonaptera:Pulicidae) development and overwintering. Metzger ME, et al. **J Med Entomol** 1997 Mar;34(2):173-8

On-host viability and fecundity of Ctenocephalides felis (Siphonaptera: Pulicidae), using a novel chambered flea technique. Thomas RE, et al. **J Med Entomol** 1996 Mar; 33(2):250-6

[Parasitic fleas in dogs from two Warsaw shelters, urban and suburban] Rudzińska M, et al. **Wiad Parazytol** 1996; 42(2):229-34 (Eng. Abstr.) **(Pol)**

FLECAINIDE

ADMINISTRATION & DOSAGE

Safety and efficacy of oral flecainide acetate in patients with cardiac arrhythmias. Nakazato Y, et al. **Jpn Heart J** 1997 May;38(3):379-85

ADVERSE EFFECTS

Unusual atrial pro-arrhythmic effect of flecainide: a contemporary review. De Meester A, et al. **Acta Cardiol** 1996;51(6):529-34

[Benefit of monitoring the level of blood flecainide acetate in an elderly patient with ventricular premature contractions] Nagashima J, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):54-9 (Eng. Abstr.) **(Jpn)**

BLOOD

Identification of flecainide and lorcainide in blood by means of TLC. Paw B, et al. **Acta Pol Pharm** 1995 Jan-Feb; 52(1):5-7

[Benefit of monitoring the level of blood flecainide acetate in an elderly patient with ventricular premature contractions] Nagashima J, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):54-9 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Stability of baclofen, captopril, diltiazem hydrochloride, dipyridamole, and flecainide acetate in extemporaneously compounded oral liquids. Allen LV Jr, et al. **Am J Health Syst Pharm** 1996 Sep 15;53(18):2179-84

PHARMACOLOGY

Comparison of the effects of restacorin and flecainide on various cardiac transmembrane potassium currents. Németh M, et al. **Acta Physiol Hung** 1996;84(3):317-8

Electrophysiologic effects of sodium channel blockade on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by flecainide versus disopyramide or lidocaine. Kondo T, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1639-44

Flecainide and the electrophysiologic matrix: the effects of flecainide acetate on the determinants of cardiac excitability in sheep Purkinje fibers. Arnsdorf MF, et al. **J Cardiovasc Electrophysiol** 1996 Dec;7(12):1172-82

Modifications in the evolution of the dominant frequency in ventricular fibrillation induced by amiodarone, diltiazem, and flecainide. An experimental study. Chorro FJ, et al. **J Electrocardiol** 1996 Oct;29(4):319-26

Comparison of the effects of class I anti-arrhythmic drugs, cibenzoline, mexiletine and flecainide, on the delayed rectifier K+ current of guinea-pig ventricular myocytes. Wang DW, et al. **J Mol Cell Cardiol** 1996 May; 28(5):893-903

Flecainide alters the cardiac microscopic activation pattern. An in-vitro study using voltage sensitive dyes. Dhein S, et al. **Pharmacol Res** 1996 Sep-Oct;34(3-4):125-30

[Sotalol, propafenone, and flecainide: compared multiparametric analysis of ventricular repolarization in subjects without organic cardiopathy] Sarubbi B, et al. **Cardiologia** 1996 Jul;41(7):645-51 (Eng. Abstr.) **(Ita)**

POISONING

Flecainide overdose: is cardiopulmonary support the treatment? Yasui RK, et al. **Ann Emerg Med** 1997 May; 29(5):680-2

Sodium bicarbonate to correct widened QRS in a case of flecainide overdose. Goldman MJ, et al. **J Emerg Med** 1997 Mar-Apr;15(2):183-6

Paranoid psychosis due to flecainide toxicity in malignant neuropathic pain. Bennett MI. **Pain** 1997 Mar;70(1):93-4

THERAPEUTIC USE

Impact of the Food and Drug Administration approval of flecainide and encainide on coronary artery disease mortality: putting "Deadly Medicine" to the test. Anderson JL, et al. **Am J Cardiol** 1997 Jan 1;79(1):43-7

Direct-current cardioversion of atrial tachyarrhythmias under oral flecainide therapy. Leclercq JF, et al. **Am J Cardiol** 1997 Sep 1;80(5):645-8

Use of flecainide for refractory atrial tachycardia of pregnancy. Ahmed K, et al. **Am J Crit Care** 1996 Jul; 5(4):306-8

Disappearance with ischaemic depolarization of the antifibrillatory activity in a sodium channel blocker and appearance in calcium channel blocker. Bui-Xuan B, et al. **Arch Int Pharmacodyn Ther** 1996 May-Jun; 331(3):246-62

[Comparative study of cibenzoline and flecainide by oral route for preventing recurrence of paroxysmal atrial tachyarrhythmias] Maison-Blanche P, et al. **Ann Cardiol Angeiol (Paris)** 1997 Feb;46(2):109-16 (Eng. Abstr.) **(Fre)**

[European protocol for the management of fetal supraventricular tachycardia. European Association of Pediatric Cardiology] Azancot-Benisty A, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):735-43 **(Fre)**

[Fetal supraventricular tachycardia with anasarca complicating benign extrasystole: treatment with flecainide. Apropos of a case] Hamel P, et al. **Arch Mal Coeur Vaiss** 1997 Mar;90(3):407-10 (Eng. Abstr.) **(Fre)**

[Flecaine: drug of choice for supraventricular tachycardias with anasarca. A case report] Hamel P, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):37-9 (Eng. Abstr.) **(Fre)**

[Propafenone and flecainide in the therapy of ventricular arrhythmias] Paperini L, et al. **Minerva Cardioangiol** 1995 Oct;43(10):449-57 (32 ref.) (Eng. Abstr.) **(Ita)**

[Propafenone, flecainide, procainamide in the treatment of a fresh attack of atrial fibrillation] Kosmala W, et al. **Wiad Lek** 1994 Nov-Dec;47(21-24):801-7 (Eng. Abstr.) **(Pol)**

TOXICITY

Proarrhythmic actions of flecainide in an isolated tissue model of ischemia and reperfusion. Heisler BE, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):317-24

Prevention by calcium antagonists of profibrillatory effects of class I antiarrhythmic drugs in acute myocardial ischemia: study in pig heart in situ. Bui-Xuan B, et al. **Pharmacotherapy** 1997 Jul-Aug;17(4):737-45

FLECAINIDE ACETATE see **FLECAINIDE**

FLEROXACIN

[Fleroxacin--a new quinolone antibiotic] Kostić D. **Vojnosanit Pregl** 1996 Jul-Aug;53(4):311-24 (100 ref.) **(Scr)**

ADMINISTRATION & DOSAGE

Once-daily fleroxacin versus twice-daily ciprofloxacin in the treatment of complicated urinary tract infections. Frankenschmidt A, et al. **J Urol** 1997 Oct;158(4):1494-9

ANALOGS & DERIVATIVES

Effect of RO 23-9424, cefotaxime and fleroxacin on functions of human polymorphonuclear cells and cytokine

production by human monocytes. Matera G, et al. **J Antimicrob Chemother** 1996 Nov;38(5):799–807

The use of capillary electrophoresis to monitor the stability of a dual–action cephalosporin in solution. Nickerson B, et al. **J Pharm Biomed Anal** 1995 Dec;14(1–2):73–83

CHEMISTRY

Photogeneration of fluoride by the fluoroquinolone antimicrobial agents lomefloxacin and fleroxacin. Martinez LJ, et al. **Photochem Photobiol** 1997 Mar;65(3):599–602

PHARMACOKINETICS

Pharmacokinetics of oral fleroxacin in male and premenopausal female volunteers. Bertino JS Jr, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):789–91

Penetration of ciprofloxacin and fleroxacin into biliary tract. Edmiston CE Jr, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):787–91

Pharmacokinetics of [18F]fleroxacin in patients with acute exacerbations of chronic bronchitis and complicated urinary tract infection studied by positron emission tomography. Fischman AJ, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):659–64

Factors influencing elimination and distribution of fleroxacin: metaanalysis of individual data from 10 pharmacokinetic studies. Reigner BG, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):575–80

Pharmacokinetics of fleroxacin after multiple oral dosing in patients receiving regular hemodialysis. Uehlinger DE, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1903–9

Sustained release of fleroxacin in vitro from lactic acid polymer. Dounis E, et al. **Bull Hosp Jt Dis** 1996;55(1):16–9

PHARMACOLOGY

Pharmacodynamic effects of ciprofloxacin, fleroxacin and lomefloxacin in vivo and in vitro. Fuentes F, et al. **Chemotherapy** 1996 Sep–Oct;42(5):354–62

Fleroxacin enhancement of superoxide production by polymorphonuclear leukocytes: the role of protein kinases. Matsumoto T, et al. **Chemotherapy** 1996 Jul–Aug; 42(4):280–5

In vitro activity of trovafloxacin (CP–99,219), sparfloxacin, ciprofloxacin, and fleroxacin against respiratory pathogens. Crokaert F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug;15(8):696–8

Endothelial cell compatibility of fluoroquinolone solutions for intravenous use. Vorbach H, et al. **Int J Clin Pharmacol Ther** 1997 Jun;35(6):235–8

Effect of RO 23–9424, cefotaxime and fleroxacin on functions of human polymorphonuclear cells and cytokine production by human monocytes. Matera G, et al. **J Antimicrob Chemother** 1996 Nov;38(5):799–807

THERAPEUTIC USE

Attenuation of gentamicin–induced nephrotoxicity in rats by fleroxacin. Beauchamp D, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1237–45

Single oral dose treatment of uncomplicated urinary tract infection in women. Bailey RR. **Chemotherapy** 1996 Mar; 42 Suppl 1:10–6

Fleroxacin in complicated urinary tract infections. Giamarellou H. **Chemotherapy** 1996 Mar;42 Suppl 1:17–27 (29 ref.)

Quinolones in everyday clinical practice: respiratory tract infections and nosocomial pneumonia. Marklein G. **Chemotherapy** 1996 Mar;42 Suppl 1:33–42

Fleroxacin overview. Naber KG. **Chemotherapy** 1996 Mar; 42 Suppl 1:1–9 (27 ref.)

Complicated urinary infection in spinal injury patients: fleroxacin compared with ciprofloxacin. Whitby M, et al. **Chemotherapy** 1996 Nov–Dec;42(6):468–72

Atypical pneumonia in the Nordic countries: aetiology and clinical results of a trial comparing fleroxacin and doxycycline. Nordic Atypical Pneumonia Study Group. Ragnar Norrby S. **J Antimicrob Chemother** 1997 Apr; 39(4):499–508

TOXICITY

Fluoroquinolone antibacterials enhance UVA–induced skin tumors. Klecak G, et al. **J Photochem Photobiol B** 1997 Feb;37(3):174–81

FLESH–EATING BACTERIA see **STREPTOCOCCUS PYOGENES**

FLETCHER FACTOR see **PREKALLIKREIN**

FLEXIBILITY see **PLIABILITY**

FLICKER FUSION

Basic study of the portable fatigue meter: effects of illumination, distance from eyes and age. Hosokawa T, et al. **Ergonomics** 1997 Sep;40(9):887–94

Accommodation, convergence, pupil diameter and eye blinks at a CRT display flickering near fusion limit. Jaschinski W, et al. **Ergonomics** 1996 Jan;39(1):152–64

Perception of a border defined by rapidly reversing luminance contrast. Lee K, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):739–46

PHYSIOLOGY

Flicker perimetry in diabetic children without retinopathy. Lobefalo L, et al. **Can J Ophthalmol** 1997 Aug;32(5):324–8

Large–field S–cone flicker test. Budde WM, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jul;235(7):415–24

Flicker masking depends on the method of measurement. Stomonyakov V, et al. **Int J Psychophysiol** 1996 Feb–Mar; 21(2–3):75–82

The range and variability of ophthalmological parameters in normal children aged 4 1/2 to 5 1/2 years [see comments] Lam SR, et al. **J Pediatr Ophthalmol Strabismus** 1996 Sep–Oct;33(5):251–6. Comment in: J Pediatr Ophthalmol Strabismus 1997 Mar–Apr;34(2):76.

The effects of luminance and chromatic background flicker on the human visual evoked potential. Brigell M, et al. **Vis Neurosci** 1996 Mar–Apr;13(2):265–75

Adaptation to peripheral flicker. Anstis S. **Vision Res** 1996 Nov;36(21):3479–85

A dissociation between brain activity and perception: chromatically opponent cortical neurons signal chromatic flicker that is not perceived. Gur M, et al. **Vision Res** 1997 Feb;37(4):377–82

Development of temporal contrast sensitivity in human infants. Rasengane TA, et al. **Vision Res** 1997 Jul; 37(13):1747–54

[Frequency range of the flicker fusion reaction in the cerebral cortex] Il'ianok VA. **Fiziol Cheloveka** 1997 Jan–Feb; 23(1):33–8 **(Rus)**

FLIES, TRUE see **DIPTERA**

FLIGHT, ANIMAL

Odour plumes and odour–mediated flight in insects. Cardé RT. **Ciba Found Symp** 1996;200:54–66; discussion 66–70 (46 ref.)

Large genetic change at small fitness cost in large populations of Drosophila melanogaster selected for wind tunnel flight: rethinking fitness surfaces. Weber KE. **Genetics** 1996 Sep; 144(1):205–13

The changes in power requirements and muscle efficiency during elevated force production in the fruit fly Drosophila melanogaster. Lehmann FO, et al. **J Exp Biol** 1997 Apr; 200 (Pt 7):1133–43

Effect of weather conditions on the flight activity of Nigerian blackflies (Diptera:Simuliidae). Roberts DM, et al. **Med Vet Entomol** 1996 Apr;10(2):137–44

PHYSIOLOGY

Innervation of propatagial musculature in a flying squirrel, Glaucomys volans (Rodentia, Sciuridae). Chickering JG, et al. **Brain Behav Evol** 1996;47(1):1–7

The evolution of insect wings and their sensory apparatus. Dickinson MH, et al. **Brain Behav Evol** 1997 Jul;50(1):13–24 (70 ref.)

The evolution of insect flight: implications for the evolution of the nervous system. Edwards JS. **Brain Behav Evol** 1997 Jul;50(1):8–12 (26 ref.)

Neural parameters contributing to temperature compensation in the flight CPG of the locust, Locusta migratoria. Xu H, et al. **Brain Res** 1996 Sep 23;734(1–2):213–22

Physiological constraints in the aerobic performance of hummingbirds. Bicudo JE, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1139–45

A software oscilloscope for DOS computers with an integrated remote control for a video tape recorder. The assignment of acoustic events to behavioural observations. Höller P. **Comput Methods Programs Biomed** 1995 Dec; 48(3):229–35

Alterations in flight muscle ultrastructure and function in Drosophila tropomyosin mutants. Kreuz AJ, et al. **J Cell Biol** 1996 Nov;135(3):673–87

Trehalose inhibits the release of adipokinetic hormones from the corpus cardiacum in the African migratory locust, Locusta migratoria, at the level of the adipokinetic cells. Passier PC, et al. **J Endocrinol** 1997 May;153(2):299–305

Transient hovering performance of hummingbirds under conditions of maximal loading. Chai P, et al. **J Exp Biol** 1997 Mar;200 (Pt 5):921–9

Hummingbird hovering performance in hyperoxic heliox: effects of body mass and sex. Chai P, et al. **J Exp Biol** 1996 Dec;199 (12):2745–55

Hummingbird hovering energetics during moult of primary flight feathers. Chai P. **J Exp Biol** 1997 May;200 (Pt 10):1527–36

Limits to flight energetics of hummingbirds hovering in hypodense and hypoxic gas mixtures. Chai P, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2285–95

In vivo length oscillations of indirect flight muscles in the fruit fly Drosophila virilis. Chan WP, et al. **J Exp Biol** 1996 Dec;199 (12):2767–74

The wake dynamics and flight forces of the fruit fly Drosophila melanogaster. Dickinson MH, et al. **J Exp Biol** 1996 Sep;199 (Pt 9):2085–104

Activity of asynchronous flight muscle from two bee families during sonication (buzzing). King MJ, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2317–21

Anatomy and histochemistry of spread–wing posture in birds. 2. Gliding flight in the California gull, Larus californicus: a paradox of fast fibers and posture. Meyers RA, et al. **J Morphol** 1997 Sep;233(3):237–47

Exposure to heat shock affects thermosensitivity of the locust flight system. Robertson RM, et al. **J Neurobiol** 1996 Mar; 29(3):367–83

Haltere afferents provide direct, electrotonic input to a steering motor neuron in the blowfly, Calliphora. Fayyazuddin A, et al. **J Neurosci** 1996 Aug 15; 16(16):5225–32

A radiotelemetric 2–channel unit for transmission of muscle potentials during free flight of the desert locust, Schistocerca gregaria. Fischer H, et al. **J Neurosci Methods** 1996 Jan;64(1):39–45

Effects of ambient oxygen tension on flight performance, metabolism, and water loss of the honeybee. Joos B, et al. **Physiol Zool** 1997 Mar–Apr;70(2):167–74

Honeybee thermoregulation [letter; comment] Heinrich B, et al. **Science** 1997 May 16;276(5315):1015; discussion 1016–7. Comment on: Science 1996 Oct 4;274(5284):88–90.

Honeybee thermoregulation [letter; comment] Stevenson RD, et al. **Science** 1997 May 16;276(5315):1015–6; discussion 1016–7. Comment on: Science 1996 Oct 4;274(5284):88–90.

[Isoenzymatic characterization of the hexokinase in the development of Plebeia droryana (Hymenoptera, Apidae) and its relation with flight activity] de Paiva ML, et al. **Rev Bras Biol** 1995 Dec;55 Suppl 1:107–11 (Eng. Abstr.) **(Por)**

FLIGHT REACTION see **ESCAPE REACTION**

FLIGHT SUITS see **SPACE SUITS**

FLOCCULATION

MIG1 overexpression causes flocculation in Saccharomyces cerevisiae. Shankar CS, et al. **Microbiology** 1996 Sep;142 (Pt 9):2663–7

FLOODING see **IMPLOSIVE THERAPY**

FLOODS see **NATURAL DISASTERS**

FLOOR OF MOUTH see **MOUTH FLOOR**

FLOORCOVERINGS see **FLOORS AND FLOORCOVERINGS**

FLOORS AND FLOORCOVERINGS

Mite control with low temperature washing. I. Elimination of living mites on carpet pieces. Bischoff ER, et al. **Clin Exp Allergy** 1996 Aug;26(8):945–52

Variability and repeatability of house dust mite allergen measurement: implications for study design and interpretation. Marks GB, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1190–7

Der p I concentrations in mattress surface and floor dust collected from infants' bedrooms. van Strien RT, et al. **Clin Exp Allergy** 1995 Dec;25(12):1184–9

The influence of different floor stiffness on mechanical efficiency of leg extensor muscle. Bosco C, et al. **Ergonomics** 1997 Jun;40(6):670–9

Profile of the musculoskeletal pain suffered by textile tufting workers handling thread cones according to work, age and employment duration. Montreuil S, et al. **Ergonomics** 1996 Jan;39(1):76–91

The effect of load carrying and floor contaminants on slip and fall parameters. Myung R, et al. **Ergonomics** 1997 Feb; 40(2):235–46

Evaluation of the sensory irritation potential of volatile organic chemicals from carpets—alone and in combination. Stadler JC, et al. **Food Chem Toxicol** 1996 Nov–Dec; 34(11–12):1125–30

Evaluation of a novel assay of potential toxicity/neurotoxicity of carpet emissions (VOCs) in mice. Stott WT, et al. **Food Chem Toxicol** 1997 Feb;35(2):241–54

A strategy for the evaluation of sensory and pulmonary irritation due to chemical emissions from indoor sources. Muller WJ, et al. **J Air Waste Manag Assoc** 1996 Sep; 46(9):808–12

Possible prolonged environmental survival of small round structured viruses [letter] Cheesbrough JS, et al. **J Hosp Infect** 1997 Apr;35(4):325–6

A bacteriological study of a contamination control tacky mat [letter] Traore O, et al. **J Hosp Infect** 1997 Jun;36(2):158–60

Carpet bezoar obstruction of the small intestine. Wang PY, et al. **J Pediatr Surg** 1996 Dec;31(12):1691–3

Bacterial threats to new hospitals [letter] Maley MP. **Lancet** 1997 Jul 19;350(9072):223–4

Behavioral effects of exposure to organic solvents in carpet layers. Muijser H, et al. **Neurotoxicol Teratol** 1996 Jul–Aug; 18(4):455–62

House dust mite exposure in asthmatic and healthy children: the difference is carpeting. Meijer GG, et al. **Pediatr Allergy Immunol** 1995 Nov;6(4):187–91

[Effects of renovation measures on the health status of persons, exposed to pyrethroids through carpets and flooring] Böge KP, et al. **Gesundheitswesen** 1996 Dec; 58(12):673–81 (Eng. Abstr.) **(Ger)**

[Floor cleaning methods of patients' room. Effect on bacteria, dirt and particles] Andersen BM, et al. **Tidsskr Nor Laegeforen** 1997 Feb 28;117(6):838–41 (Eng. Abstr.) **(Nor)**

FLOPPY MITRAL VALVE see **MITRAL VALVE PROLAPSE**

FLORAFUR see **TEGAFUR**

FLORIMYCIN see **VIOMYCIN**

FLOUNDER

Effect of sediment from two sulphite-bleaching paper mills on winter flounder (Pleuronectes americanus) following chronic exposure. Khan RA.
Bull Environ Contam Toxicol 1997 Jul;59(1):139–45

Skin and liver diseases induced in flounder (Platichthys flesus) after long-term exposure to contaminated sediments in large-scale mesocosms. Vethaak AD, et al.
Environ Health Perspect 1996 Nov;104(11):1218–29

Characterization of a heat-stable fraction of lipovitellin and development of an immunoassay for vitellogenin and yolk protein in winter flounder (Pleuronectes americanus). Hartling RC, et al. **J Exp Zool** 1997 Jun 15;278(3):156–66

GENETICS

The role of CCAAT/enhancer-binding protein alpha and a protein that binds to the activator-protein-1 site in the regulation of liver-specific expression of the winter flounder antifreeze protein gene. Chan SL, et al.
Eur J Biochem 1997 Jul 1;247(1):44–51

METABOLISM

Stability of cytochrome P4501A-associated enzyme activity in cryogenically stored teleost liver samples. Anulacion BF, et al. **Chemosphere** 1997 May;34(9–10):2029–39

Aromatic hydrocarbon quinone-mediated reactive oxygen species production on hepatic microsomes of the flounder (Platichthys flesus L.). Lemaire P, et al.
Comp Biochem Physiol C Pharmacol Toxicol Endocrinol 1997 Jun;117(2):131–9

Comparative pharmacokinetics and tissue distribution of norfloxacin-glycine acetate in flounder, (Paralichthys olivaceus) at two different temperatures. Park SC, et al.
J Vet Med Sci 1996 Oct;58(10):1039–40

[Investigation on spatial distribution of chloronaphthalenes in flounder Platychtis flesus from the gulf of Gdansk] Falandysz J, et al. **Rocz Panstw Zakl Hig** 1996;47(3):257–64 (Eng. Abstr.) **(Pol)**

PARASITOLOGY

Colonization and establishment of Pomphorhynchus laevis (Acanthocephala) in an isolated English river. Kennedy CR. **J Helminthol** 1996 Mar;70(1):27–31

Proteolytic enzymes in the blood-feeding parasitic copepod, Phrixocephalus cincinnatus. Perkins PS, et al.
J Parasitol 1997 Feb;83(1):6–12

PHYSIOLOGY

Changes in plasma arginine vasotocin (AVT) concentration and dorsal aortic blood pressure following AVT injection in the teleost Platichthys flesus. Warne JM, et al.
Gen Comp Endocrinol 1997 Mar;105(3):358–64

Adrenergic receptor activation hyperpolarizes the caudal neurosecretory cells of the flounder, Platichthys flesus. Hubbard PC, et al. **J Neuroendocrinol** 1996 Feb;8(2):153–9

FLOUR

Local ventilation for powder handling--combination of local supply and exhaust air. Heinonen K, et al.
Am Ind Hyg Assoc J 1996 Apr;57(4):356–64

Grouping strategies for exposure to inhalable dust, wheat allergens and alpha-amylase allergens in bakeries. Houba R, et al. **Ann Occup Hyg** 1997 Jun;41(3):287–96

Natural occurrence of deoxynivalenol in wheat, wheat flour and bakery products in Argentina. Pacin AM, et al.
Food Addit Contam 1997 May-Jun;14(4):327–31

Kinetics of starch gelatinization during extrusion of tarhana, a traditional turkish wheat flour-yogurt mixture. Ibanoglu S, et al. **Int J Food Sci Nutr** 1997 May;48(3):201–4

Functional properties of thermally treated legume flours. Nagmani B, et al. **Int J Food Sci Nutr** 1997 May; 48(3):205–14

When flour lipase inhibitor decreases serum lipid levels in male rats. Tani H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):699–706

ADVERSE EFFECTS

Nasal response to allergen challenge in patients with immediate asthmatic reaction. Palczynski C, et al.
Allergol Immunopathol (Madr) 1996 Jul-Aug;24(4):163–8

Systemic allergic reaction following ingestion of undeclared peanut flour in a peanut-sensitive woman. McKenna C, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):234–6

Mouse lung immune response after acute exposure to flour dust. Kolopp-Sarda MN, et al. **Arch Environ Health** 1997 Jul-Aug;52(4):304–8

Rye flour allergens associated with baker's asthma. Correlation between in vivo and in vitro activities and comparison with their wheat and barley homologues. García-Casado G, et al. **Clin Exp Allergy** 1996 Apr; 26(4):428–35

Buckwheat flour hypersensitivity: an occupational asthma in a noodle maker. Park HS, et al. **Clin Exp Allergy** 1996 Apr;26(4):423–7

Differentiation between cosensitization and cross-reactivity in wheat flour and grass pollen-sensitized subjects. Sander I, et al. **Int Arch Allergy Immunol** 1997 Apr;112(4):378–85

Anaphylaxis after ingestion of wheat flour contaminated with mites. Blanco C, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):308–13

Quantitative bronchial challenge tests with wheat flour dust administered by spinhaler: comparison with aqueous wheat flour extract inhalation. Merget R, et al.
J Allergy Clin Immunol 1997 Aug;100(2):199–207

Mite-contaminated foods as a cause of anaphylaxis. Sanchez-Borges M, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):738–43

Allergy to flour and fungal amylase in bakery workers. Smith TA, et al. **Occup Med (Oxf)** 1997 Jan;47(1):21–4

[Respiratory symptoms and occupational sensitization in a group of trainee bakers: results of a 6-month follow up] De Zotti R, et al. **Med Lav** 1997 Mar-Apr;88(2):155–65 (Eng. Abstr.) **(Ita)**

ANALYSIS

Identification of a masked allergen, alpha-lactalbumin, in baby-food cereal flour guaranteed free of cow's milk protein. Frémont S, et al. **Allergy** 1996 Oct;51(10):749–54

Development, acceptability, nutritional and physical characteristics of protein improved Nigerian abari (maize meal) prepared from soya and maize flours. Omueti O, et al. **Int J Food Sci Nutr** 1996 Sep;47(5):369–75

Determination and survey of deoxynivalenol in white flour, whole wheat flour, and bran. Trucksess MW, et al.
J AOAC Int 1996 Jul-Aug;79(4):883–7

Fractionation of wheat proteins by counter-current distribution using aqueous two-phase systems containing propionic acid. Truust H, et al.
J Chromatogr B Biomed Appl 1996 May 17;680(1–2):71–80

Dietary skim milk powder increases ionized calcium in the small intestine of piglets compared to dietary defatted soybean flour. Matsui T, et al. **J Nutr** 1997 Jul; 127(7):1357–61

Endogenous factors responsible for the textural characteristics of buckwheat products. Ikeda K, et al.
J Nutr Sci Vitaminol (Tokyo) 1997 Feb;43(1):101–11

Effect of gamma-irradiation on the natural occurrence of Fusarium mycotoxins in wheat, flour and bread. Aziz NH, et al. **Nahrung** 1997 Feb;41(1):34–7

Technological and chemical characters of bread prepared from irradiated wheat flour. Zaied SE, et al. **Nahrung** 1996 Feb;40(1):28–31

Protein profiles and organoleptic properties of bread from wheat flour and full-fat or defatted fermented cocoa bean powder. Aremu CY, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):287–95

Effects of debittering methods on the proximate composition, organoleptic and functional properties of sesame (Sesamum indicum L.) seed flour. Badifu GI, et al.
Plant Foods Hum Nutr 1996 Feb;49(2):119–26

Effect of traditional processing of cassava on the cyanide content of gari and cassava flour. Kemdirim OC, et al.
Plant Foods Hum Nutr 1995 Dec;48(4):335–9

Feeding heated soyabean flour increases the density of B and T lymphocytes in the small intestine of calves. Lallès JP, et al. **Vet Immunol Immunopathol** 1996 Jun 15; 52(1–2):105–15

[Electrophoretic analysis of buckwheat flour compared with regular wheat flour] de Francischi ML, et al.
Arch Latinoam Nutr 1994 Dec;44(4):274–6 (Eng. Abstr.) **(Por)**

[Selenium content in wheat and rye flow from Russia, cis nations and Baltic countries] Golubkina NA. **Vopr Pitan** 1997;(3):17–20 (Eng. Abstr.) **(Rus)**

[The use of deffated corn germ in flour manufactured to bakery products] Granito M, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):322–8 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Fate of Salmonella enteritidis and Salmonella typhimurium during the fermentation of siljo. Dessie G, et al.
East Afr Med J 1996 Jul;73(7):432–4

STANDARDS

Effects of food intake, soaking time, enzyme and cornflour addition on the digestibility of the diet and performance of broilers given wet food. Yalda AY, et al.
Br Poult Sci 1996 Sep;37(4):797–807

Effect of sesame seed proteins supplementation on the nutritional, physical, chemical and sensory properties of wheat flour bread. El-Adawy TA.
Plant Foods Hum Nutr 1995 Dec;48(4):311–26

FLOW CYTOMETRY

Flow cytometric analysis of band 3 protein of human erythrocytes. Stoya G, et al. **Acta Histochem** 1997 Mar; 99(1):29–36

Prognostic significance of nuclear DNA content in human meningiomas: a prospective study. Meixensberger J, et al.
Acta Neurochir Suppl (Wien) 1996;65:70–2

Flow cytometric analysis of lymphocytes in cerebrospinal fluid in patients with tick-borne encephalitis. Tomažič J, et al. **Acta Neurol Scand** 1997 Jan;95(1):29–33

Flow cytometric evaluation of proliferating cell nuclear antigen expression in human hematopoietic malignancies. Erlanson M, et al. **Acta Oncol** 1997;36(1):17–22

Flow cytometric DNA-heterogeneity in paraffin-embedded endometrial cancer. Rosenberg P, et al. **Acta Oncol** 1997; 36(1):23–6

Major salivary gland lesions: correlation of MR findings with flow cytometric DNA analysis and prognosis. Takashima S, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1297–304

Can flow cytometric detection of platelet activation early in pregnancy predict the occurrence of preeclampsia? A prospective study. Konijnenberg A, et al.
Am J Obstet Gynecol 1997 Aug;177(2):434–42

Flow cytometric analysis of mast cells from normal and pathological human bone marrow samples: identification and enumeration. Orfao A, et al. **Am J Pathol** 1996 Nov; 149(5):1493–9

A comparison of flow and image DNA cytometry in prediction of patient prognosis in surgically resected small cell lung cancer. Carey FA, et al. **Anal Cell Pathol** 1996 Dec;12(3):137–43

Flow cytometric DNA analyses of 105 fresh hydatidiform moles, with correlations to prognosis. Sunde L, et al.
Anal Cell Pathol 1996 Nov;12(2):99–114

DNA flow cytometry and glial fibrillary acidic protein reactivity in pleomorphic adenomas of the salivary glands. Desinan L, et al. **Anal Quant Cytol Histol** 1996 Oct; 18(5):355–60

Lymphocyte phenotyping in systemic sclerosis: a flow cytometry analysis of lymphocytes in bronchoalveolar lavage fluid. Domagała-Kulawik J, et al.
Anal Quant Cytol Histol 1997 Jun;19(3):264–70

Reproducibility of DNA ploidy and S-phase values from paraffin-embedded tissue. Elavathil LJ, et al.
Anal Quant Cytol Histol 1996 Aug;18(4):316–22

A new flow cytometric approach to the analysis of DNA and a second parameter. Kusuda L, et al.
Anal Quant Cytol Histol 1996 Aug;18(4):309–15

Characterization of cell division cycle regulating genes of Entamoeba histolytica by flow cytometry. Ray SS, et al.
Arch Med Res 1997;28 Spec No:122–3

Rapid detection of IgG subclasses on DAT positive RBC membranes by flow cytometry (FC). Asmussen C, et al.
Beitr Infusionsther Transfusionsmed 1996;33:35–9

Storage of peripheral blood stem cell samples alters flow cytometric CD34+ results. Gutensohn K, et al.
Beitr Infusionsther Transfusionsmed 1996;33:170–4

Platelet activation in newborns detected by flow-cytometry. Gatti L, et al. **Biol Neonate** 1996;70(6):322–7

Analysis of atresia in bovine follicles using different methods: flow cytometry, enzyme-linked immunosorbent assay, and classic histology. Blondin P, et al. **Biol Reprod** 1996 Mar; 54(3):631–7

Isolation of human blood dendritic cells using the CMRF-44 monoclonal antibody: implications for studies on antigen-presenting cell function and immunotherapy. Fearnley DB, et al. **Blood** 1997 May 15;89(10):3708–16

Flow-cytometric study of granulocyte activation during hemodialysis with different membranes. Mordacchini M, et al. **Blood Purif** 1995 Nov-Dec;13(6):322–6

Flow cytometric DNA analysis of cirrhotic liver cells in patients with hepatocellular carcinoma can provide a new prognostic factor. Ruà S, et al. **Cancer** 1996 Sep 15; 78(6):1195–202

Comparison of DNA flow cytometry and fluorescence in situ hybridization with a set of 10 chromosome-specific DNA probes in four head and neck carcinomas. Hemmer J, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):35–8

Flow cytometry is becoming an indispensable tool in leukemia diagnosis and classification [editorial; comment] Braylan RC. **Cancer Invest** 1997;15(4):382–3. Comment on: Cancer Invest 1997 ;15(4):384–99.

Analyte and label binding assay read by flow cytometry. Utgaard JO, et al. **Clin Chem** 1996 Oct;42(10):1702–8

A simplified method for Ca2+ flux measurement on isolated human B cells that uses flow cytometry. Gergely L, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):70–4

Interference of blood leucocytes in the measurements of immature red cells (reticulocytes) by two different (semi-) automated flow-cytometry technologies [see comments] Villamor N, et al. **Clin Lab Haematol** 1996 Jun;18(2):89–94 . Comment in: Clin Lab Haematol 1997 Mar;19(1):83.

Flow cytometric determination of intracellular free potassium concentration. Balkay L, et al. **Cytometry** 1997 May 1; 28(1):42–9

Flow cytometric measurement of kinetic and equilibrium binding parameters of arginine-glycine-aspartic acid ligands in binding to glycoprotein IIb/IIIa on platelets. Bednar B, et al. **Cytometry** 1997 May 1;28(1):58–65

Comparison of five cell cycle analysis models applied to 1414 flow cytometric DNA histograms of fresh frozen breast cancer. Bergers E, et al. **Cytometry** 1997 Feb 15;30(1):54–60

Bax upregulation is an early event in cisplatin-induced apoptosis in human testicular germ-cell tumor cell line NT2, as quantitated by flow cytometry. Boersma AW, et al. **Cytometry** 1997 Mar 1;27(3):275–82

Toxic action of copper on the membrane system of a marine diatom measured by flow cytometry. Cid A, et al.
Cytometry 1996 Sep 1;25(1):32–6

Assessment of the effects of gramicidin, formaldehyde, and

surfactants on Escherichia coli by flow cytometry using nucleic acid and membrane potential dyes. Comas J, et al. **Cytometry** 1997 Sep 1;29(1):58–64

Cytometric analysis of immunosenescence. Cossarizza A, et al. **Cytometry** 1997 Apr 1;27(4):297–313 (192 ref.)

Epstein–Barr virus suspension cell assay using in situ hybridization and flow cytometry. Crouch J, et al. **Cytometry** 1997 Sep 1;29(1):50–7

Cytometry of cyclin proteins. Darzynkiewicz Z, et al. **Cytometry** 1996 Sep 1;25(1):1–13 (79 ref.)

Characterizing submicron vesicles with wavelength–resolved fluorescence in flow cytometry. Fuller RR, et al. **Cytometry** 1996 Oct 1;25(2):144–55

Isolation of glycosylation mutants in Dictyostelium discoideum using flow cytometry. Griffiths KR, et al. **Cytometry** 1996 Oct 1;25(2):133–43

Analysis of tumor thiol concentrations: comparison of flow cytometric with chemical and biochemical techniques. Horan AD, et al. **Cytometry** 1997 Sep 1;29(1):76–82

Flow cytometric detection of the Golgi apparatus using antibodies to glycosyltransferases. Mrkoci Felner K, et al. **Cytometry** 1997 May 1;28(1):50–7

Flow cytometric detection of the association between cell surface receptors and the cytoskeleton. Nebe B, et al. **Cytometry** 1997 May 1;28(1):66–73

Evaluation of four monoclonal antibodies against HLA–B27 for their reliability in HLA–B27 typing with flow cytometry (FC): comparison with the classic microlymphocytotoxic test (MLCT). Neumüller J, et al. **Cytometry** 1996 Sep 15;26(3):209–15

Flow cytometric measurement of DNA content in human solid tumors: a comparison with cytogenetics. Rapi S, et al. **Cytometry** 1996 Sep 15;26(3):192–7

Interactions of intercalating fluorochromes with DNA analyzed by conventional and fluorescence lifetime flow cytometry utilizing deuterium oxide. Sailer BL, et al. **Cytometry** 1996 Oct 1;25(2):164–72

Comment on R.A. White's v function. Schmidt W. **Cytometry** 1996 Jul 1;24(3):289–91

Proposed new data file standard for flow cytometry, version FCS 3.0. Seamer LC, et al. **Cytometry** 1997 Jun 1; 28(2):118–22

Mitochondrial membrane potential measurement in rat cerebellar neurons by flow cytometry. Sureda FX, et al. **Cytometry** 1997 May 1;28(1):74–80

Flow cytometric immunophenotyping of non–Hodgkin's lymphomas and related disorders. Tbakhi A, et al. **Cytometry** 1996 Oct 1;25(2):113–24 (90 ref.)

Initial results of Central European Immunophenotyping Quality Control Program (CEQUAL). Vesely R, et al. **Cytometry** 1996 Jun 15;26(2):108–12

Combining fine–needle aspiration and flow cytometric immunophenotyping in evaluation of nodal and extranodal sites for possible lymphoma: a retrospective review. Dunphy CH, et al. **Diagn Cytopathol** 1997 Mar;16(3):200–6 (16 ref.)

Flow cytometric examination of p53 protein in primary tumors and metastases to the liver and lymph nodes of colorectal cancer. Kimura O, et al. **Dis Colon Rectum** 1996 Dec;39(12):1428–33

Flow cytometry in squamous cell esophageal cancer and precancerous lesions. Chanvitan A, et al. **Dis Esophagus** 1997 Jul;10(3):206–10

Nucleolar organizer regions in glottic carcinomas: comparison of DNA cytofluorometry and clinicopathological analysis. Yamamoto Y, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):499–503

Prognostic value of quantitative cytometry in a series of 415 T1T2/N0N1/M0 breast cancer patients—preliminary results. Bolla M, et al. **Eur J Cancer** 1996 Sep; 32A(10):1680–5

VIIth Workshop Flow Cytometry of Arbeitsgemeinschaft Dermatologische Forschung in cooperation with Deutsch Gesellschaft für Zytometrie. September 12–13, 1996. Abstracts. **Eur J Clin Chem Clin Biochem** 1997 May; 35(5):A1–12

Flow cytometric analysis of platelet activation markers CD62P and CD63 in patients with coronary artery disease. Murakami T, et al. **Eur J Clin Invest** 1996 Nov; 26(11):996–1003

Flow cytometric DNA analysis of gastric cancer that is invading the muscularis propria. Mizunuma H, et al. **Eur J Surg** 1996 Nov;162(11):889–94

Leishmania infantum promastigotes: flow cytometry as a possible tool for assessing the effects of drugs on cellular functions. Azas N, et al. **Exp Parasitol** 1997 Sep;87(1):1–7

Flow cytometry study on the effect of serum and peritoneal fluid of women on sperm–binding activity of immunoglobulin G antisperm antibodies. Nikolaeva MA, et al. **Fertil Steril** 1997 Apr;67(4):680–6

Flow cytometry in clinical diagnosis and in tests on new drugs. Kawiak J, et al. **Folia Morphol (Warsz)** 1996; 55(4):312–4

Flow cytometric DNA–analysis of cells obtained with fine needle aspiration biopsy of the breast. Niezabitowski A, et al. **Gen Diagn Pathol** 1996 Jun;142(1):33–9

Flow–cytometric analysis of peripheral lymphocytes in the rat following penetrating keratoplasty and immunosuppressive treatment. Klebe S, et al. **Ger J Ophthalmol** 1996 May;5(3):137–45

Comparison of beta–thromboglobulin, flow cytometry, and platelet aggregometry to study platelet activation. Matzdorff AC, et al. **Haemostasis** 1996 Mar–Apr; 26(2):98–106

Reticulocyte analysis using flow cytometry. Corberand JX. **Hematol Cell Ther** 1996 Dec;38(6):487–94 (49 ref.)

Priming study of human phagocytes oxidative burst by using flow cytometry. Elbim C, et al. **Hematol Cell Ther** 1996 Dec;38(6):527–35 (58 ref.)

Flow cytometry assessment of leukocyte functions in vascular pathologies. Freyburger G, et al. **Hematol Cell Ther** 1996 Dec;38(6):513–26 (102 ref.)

Applications of flow cytometry in the study of human neutrophil biology and pathology. Carulli G. **Hematopathol Mol Hematol** 1996;10(1–2):39–61 (87 ref.)

Flow cytometric DNA analysis in endometriotic tissue compared to normal uterine endometrium. Bergqvist A, et al. **Hum Reprod** 1996 Aug;11(8):1731–5

DNA flow cytometry of left and right testes in normospermic patients affected by left varicocele. Bonanni G, et al. **Hum Reprod** 1997 Jan;12(1):64–7

High fertilization prediction by flow cytometric analysis of the CD46 antigen on the inner acrosomal membrane of spermatozoa. Carver–Ward JA, et al. **Hum Reprod** 1996 Sep;11(9):1923–8

Flow cytometric analysis of granulosa cells from follicular fluid after follicular stimulation. Neubourg DD, et al. **Hum Reprod** 1996 Oct;11(10):2211–4

The predetermination of embryonic sex using flow cytometrically separated X and Y spermatozoa. Cran DG, et al. **Hum Reprod Update** 1996 Jul–Aug;2(4):355–63 (48 ref.)

Neural network analysis of flow cytometry immunophenotype data. Kothari R, et al. **IEEE Trans Biomed Eng** 1996 Aug;43(8):803–10

Sphingosine, oleylamine and stearylamine inhibit both CD11a/CD18–dependent and –independent homotypic aggregation: demonstration by cytofluorimetry. Aussel C, et al. **Immunol Lett** 1995 Sep;47(3):175–80

Flow cytometry analysis of the Fas ligand expression of activated lymph node T–cells. Sasaki K, et al. **Immunol Lett** 1997 Jan;55(1):11–3

The use of flow cytometry and fluorescein–labeled antibodies to measure specific milk proteins in bovine mammary epithelial cells. Keys JE, et al. **In Vitro Cell Dev Biol Anim** 1997 Mar;33(3):201–5

Flow cytometrical comparison of different semi–automatic ways of measuring S–phase fractions using fresh and formalin–treated normal endometrial tissue. Lindahl B, et al. **In Vivo** 1996 May–Jun;10(3):335–7

A flowcytometric study of CD4+ & CD19+ cell lymphopenia in patients with alopecia areata. Sharma VK, et al. **Indian J Med Res** 1996 Nov;104:296–8

Application of flow cytometry to the analysis of the immunosuppressive effect of histamine dilutions on human basophil activation: effect of cimetidine. Sainte–Laudy J, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S27–8

Immunologic cytofluorometric studies in adolescents with anorexia nervosa. Silber TJ, et al. **Int J Eat Disord** 1996 May;19(4):415–8

Bladder washing flow cytometry assessment of nephrogenic adenoma of the bladder. Kontothanassis D, et al. **Int Urol Nephrol** 1996;28(4):495–7

Determination of antigen–specific memory/effector CD4+ T cell frequencies by flow cytometry: evidence for a novel, antigen–specific homeostatic mechanism in HIV–associated immunodeficiency. Waldrop SL, et al. **J Clin Invest** 1997 Apr 1;99(7):1739–50

DNA flow cytometric measurements in breast cancer: a review of the instrumentation principles and clinical significance. Berho M, et al. **J Fla Med Assoc** 1997 Feb; 84(2):104–10 (44 ref.)

Preservation of spatial organization and antigenicity of leukocyte surface molecules by aldehyde fixation: flow cytometry and high–resolution FESEM studies of CD62L, CD11b, and Thy–1. Hasslen SR, et al. **J Histochem Cytochem** 1996 Oct;44(10):1115–22

A comparison of conventional microscopy, immunofluorescence microscopy and flow cytometry in the detection of Giardia lamblia cysts in beaver fecal samples. Dixon BR, et al. **J Immunol Methods** 1997 Mar 10;202(1):27–33

Analyzing cytotoxic T lymphocyte activity: a simple and reliable flow cytometry–based assay. Mattis AE, et al. **J Immunol Methods** 1997 May 26;204(2):135–42

Nuclear DNA content using computerized image cytometry of squamous cell carcinomas of the head and neck. Sarker SK, et al. **J Laryngol Otol** 1997 Jan;111(1):43–7

A statistical theory for flow cytometry profiles in terms of the binding of ligands to cell surface receptors and changes in gene expression. Bardsley WG, et al. **J Math Biol** 1996; 34(3):271–96

Experts say oncologists need to go with flow [news] Law C. **J Natl Cancer Inst** 1996 Oct 16;88(20):1430–1

Prediction of relapse of pediatric acute myeloid leukemia by use of multidimensional flow cytometry. Sievers EL, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1483–8

Flow cytometry in colon cancer: does flow cytometric cell cycle analysis help predict for short–term recurrence in patients with colorectal carcinoma? Hixon C, et al. **J Natl Med Assoc** 1995 Nov;87(11):803–6

Quantifying apoptosis in banked human brains using flow cytometry. Olano JP, et al. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1164–72

Nearest–neighbor classification for identification of aggressive versus nonaggressive low–grade astrocytic tumors by means of image cytometry–generated variables. Decaestecker C, et al. **J Neurosurg** 1997 Mar;86(3):532–7

Flow cytometry in diagnosis of central nervous system leukemic involvement [letter] del Amo A, et al. **J Pediatr** 1996 Nov;129(5):775–6

Flow cytometry in cervical adenocarcinoma. Correlating DNA content analysis with the clinical picture. Kaspar HG, et al. **J Reprod Med** 1997 Mar;42(3):170–2

Image cytometry for quantitative analysis of DNA in the testes of infertile men with varicocele: comparison with flow cytometry. Iwamoto T, et al. **J Urol** 1997 Jun; 157(6):2370–4

Features of DNA oligonucleosomal fragmentation in human tumor cell lines and its detection by flow cytometry: utility and limitations. Kikuchi H, et al. **Jpn J Cancer Res** 1997 Jan;88(1):56–63

Retrospective DNA ploidy analysis by image and flow cytometry in head and neck cancer. Epp RA, et al. **Laryngoscope** 1996 Oct;106(10):1306–13

Flow cytometric detection of CD44 (H–CAM) in hairy cell leukemia. Rutella S, et al. **Leuk Lymphoma** 1996 May; 21(5–6):497–500

Isolation and phenotypic characterization of CD117–positive cells. Neu S, et al. **Leuk Res** 1996 Nov–Dec; 20(11–12):963–71

Flow cytometric analysis of the multiple drug resistance phenotype. Krishan A, et al. **Leukemia** 1997 Jul; 11(7):1138–46

Flow cytometric detection of circulating activated platelets in primary antiphospholipid syndrome. Correlation with thrombocytopenia and anticardiolipin antibodies. Fanelli A, et al. **Lupus** 1997;6(3):261–7

Altered expression of various receptors on T cells in young and old mice after mitogenic stimulation: a flow cytometric analysis. Wakikawa A, et al. **Mech Ageing Dev** 1997 Mar; 94(1–3):113–22

Contribution of flow cytometry to the diagnosis of gastric lymphomas in endoscopic biopsy specimens. Almasri NM, et al. **Mod Pathol** 1997 Jul;10(7):650–6

Bacterial genetics by flow cytometry: rapid isolation of Salmonella typhimurium acid–inducible promoters by differential fluorescence induction. Valdivia RH, et al. **Mol Microbiol** 1996 Oct;22(2):367–78

Flow cytometric analysis of platelet surface glycoproteins in the diagnosis of Bernard–Soulier syndrome. Cohn RJ, et al. **Pediatr Hematol Oncol** 1997 Jan–Feb;14(1):43–50

The proportion of fetal nucleated red blood cells in maternal blood: estimation by FACS analysis. Sohda S, et al. **Prenat Diagn** 1997 Aug;17(8):743–52

Enrichment of tumor cells for cell kinetic analysis in human tumor biopsies using cytokeratin gating. Haustermans K, et al. **Radiother Oncol** 1996 Dec;41(3):237–48

Assessment of viability of yeast by flow cytometry using Light Green as vital dye exclusion. Alvarado–Aleman FJ, et al. **Rev Latinoam Microbiol** 1996 Jan–Mar;38(1):25–30

HLA–B27 determination using serological methods. A comparison of enzyme immunoassay and a microlymphocytotoxic test with flow cytometry and a molecular biological assay. Dunky A, et al. **Rheumatol Int** 1996;16(3):95–100

Flow cytometric characterisation of the "false naive" (CD45RA+, CD45RO–, CD29 bright+) peripheral blood T–lymphocytes in health and in rheumatoid arthritis. Neidhart M, et al. **Rheumatol Int** 1996;16(2):77–87

Kikuchi's disease: a case report with emphasis on flow cytometric studies [see comments] Lima M, et al. **Sangre (Barc)** 1996 Oct;41(5):383–6. Comment in: Sangre (Barc) 1996 Oct;41(5):337–9.

DNA flow cytometric analysis of chest–wall chondroma and chondrosarcoma. Shih CS, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3–4):157–61

Flow cytometric evaluation of the effect of various thrombin inhibitors on platelet activation in whole blood. Kaiser B, et al. **Thromb Res** 1996 May 1;82(3):257–63

Flow cytometry and immunoblotting analysis of monoclonal antibodies directed to CD–related antigens. Blanchard D, et al. **Transfus Clin Biol** 1997;4(1):153–6

Flow cytometric investigation of non–specific erythrocyte antigens. Ernst M, et al. **Transfus Clin Biol** 1997;4(1):149–52

RHD epitope density profiles of RHD variant red cells analyzed by flow cytometry. Flegel WA, et al. **Transfus Clin Biol** 1996;3(6):429–31

Coordinator's report on the flow cytometric analysis of the Rh antibodies. Fletcher A, et al. **Transfus Clin Biol** 1996; 3(6):407–13

Flow cytometric evaluation of non anti–RH1(D) monoclonal Rh antibodies. Le Pennec PY, et al. **Transfus Clin Biol** 1996;3(6):433–5

Flow cytometric analysis of 68 monoclonal anti–D reagents. Lubenko A, et al. **Transfus Clin Biol** 1996;3(6):415–7

IgG anti–D MAbs in tests by flow cytometry. Roubinet F, et al. **Transfus Clin Biol** 1996;3(6):419–23

Evaluation of Rh monoclonal antibodies for flow cytometry tests. Wendel RF, et al. **Transfus Clin Biol** 1996;3(6):425–7

Semi–quantitative assay of D antigen site density by flow cytometric analysis. Nicholson G, et al. **Transfus Med** 1991 Jun;1(2):87–90

Analysis of fine–needle aspiration biopsies by flow cytometry in kidney transplant patients. Oliveira JG, et al. **Transplantation** 1997 Jul 15;64(1):97–102

Flow cytometry cross-match: a method for predicting graft rejection. Utzig MJ, et al. **Transplantation** 1997 Feb 27; 63(4):551-4

Bernard-Soulier syndrome: a flow cytometric analysis of membrane GP-Ib expression. Yeşilipek MA, et al. **Turk J Pediatr** 1996 Jul-Sep;38(3):375-9

Deoxyribonucleic acid flow cytometry of squamous cell carcinoma of the penis. Hoofnagle RF Jr, et al. **W V Med J** 1996 Sep-Oct;92(5):271-3

Assessment of proliferative activity of glandular cells in hyperfunctioning parathyroid gland using flow cytometric and immunohistochemical methods. Xiao-Lin P, et al. **World J Surg** 1996 Mar-Apr;20(3):361-6; discussion 367

[10 years' experiences with flow cytometric immunological phenotyping in malignant hematologic diseases] Kristensen JS, et al. **Ugeskr Laeger** 1996 Oct 21;158(43):6098-102 (Eng. Abstr.) **(Dan)**

[Contribution of flow cytometry to allergologic diagnosis] Sabbah A, et al. **Allerg Immunol (Paris)** 1997 Jan; 29(1):15-21 (Eng. Abstr.) **(Fre)**

[Flow cytometry measurement of DNA fragmentation in the course of cell death via apoptosis. New techniques for evaluation of DNA status for the pathologist] Lizard G, et al. **Ann Pathol** 1997 Mar;17(1):61-6 (45 ref.) (Eng. Abstr.) **(Fre)**

[Prognostic value of quantitative DNA analysis, expressed in integrated optical density, in a series of 415 T1-T2, N0N1, M0 UICC breast cancers] Bolla M, et al. **Bull Cancer** 1996 Sep;83(9):687-92 (Eng. Abstr.) **(Fre)**

[Prognostic value of flow cytometry in squamous cell bronchogenic cancer. A retrospective study of 61 cases] Jeanfaivre T, et al. **Bull Cancer** 1997 Jun;84(6):597-602 (Eng. Abstr.) **(Fre)**

[Detection of HLA-B27 antigen using flow cytometry. A method for rapid sorting (letter)] Lechevalier D, et al. **Presse Med** 1996 Oct 12;25(30):1388 **(Fre)**

[Importance of flow cytometry in the detection of anti-erythrocyte autoantibodies] Marion V, et al. **Transfus Clin Biol** 1996;3(2):99-107 (Eng. Abstr.) **(Fre)**

[Flow cytometry for extensive thoracic diagnosis] Bernhardt K. **Acta Med Austriaca** 1997;24(1):5-7 (24 ref.) (Eng. Abstr.) **(Ger)**

[Flow cytometry in dermatology] Bauer R, et al. **Hautarzt** 1996 Jul;47(7):561-78 (36 ref.) **(Ger)**

[Comparative DNA cytometric and cytogenetic ploidy determination of chondrosarcoma and osteosarcoma] Werner M, et al. **Pathologe** 1996 Sep;17(5):374-9 (Eng. Abstr.) **(Ger)**

[Influence of DNA ploidy and grading on survival in primary metastatic prostate carcinoma] Kugler A, et al. **Urologe A** 1997 Mar;36(2):138-42 (Eng. Abstr.) **(Ger)**

[V Conference on flow cytometry in pathologic anatomy] **Pathologica** 1995 Oct;87(5):563-76 **(Ita)**

[Male breast cancer. Histochemical and flow cytometry analysis of 6 cases] Galasso MG, et al. **Pathologica** 1995 Oct;87(5):503-5 (Eng. Abstr.) **(Ita)**

[Clinical uses of flow cytometry in hematological oncology] D'Ostilio A, et al. **Recenti Prog Med** 1997 Apr;88(4):157-65 (54 ref.) (Eng. Abstr.) **(Ita)**

[Assessment by flow cytometric method of IgE-binding state of basophils in allergic disorders] Toma T, et al. **Arerugi** 1996 Jul;45(7):627-36 (Eng. Abstr.) **(Jpn)**

[Combined fluorescence in situ hybridization and cytofluorometric analysis of numerical chromosomal aberrations in squamous cell carcinomas of the tongue] Nakai S. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul; 99(7):1026-35 (Eng. Abstr.) **(Jpn)**

[A review of cell kinetics of brain tumors with use of flow cytometry] Kawamoto K. **No Shinkei Geka** 1995 Dec; 23(12):1059-68 (59 ref.) **(Jpn)**

[An attempt of immunological monitoring of patients with laryngeal carcinoma by flow cytometry] Zeromski J, et al. **Otolaryngol Pol** 1996;50(4):356-62 (Eng. Abstr.) **(Pol)**

[Use of flow cytofluorimetry in the analysis of interactions of mononuclear phagocytes with protein antigens] Stenina MA, et al. **Klin Lab Diagn** 1997 Jul;(7):25-6, 31 (Eng. Abstr.) **(Rus)**

[Flow-cytometric study of aneuploidy and proliferative activity of colonic cancer cells] Bychkova NV, et al. **Vopr Onkol** 1996;42(5):40-4 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Analysis of the flow cytometer stain Hoechst 33342 on human spermatozoa. Watkins AM, et al. **Mol Hum Reprod** 1996 Sep;2(9):709-12

HISTORY

Origins of ... flow cytometry and applications in oncology. Giaretti W. **J Clin Pathol** 1997 Apr;50(4):275-7

INSTRUMENTATION

Detection of cellulose with improved specificity using laser-based instruments. Taylor JG, et al. **Biotech Histochem** 1996 Sep;71(5):215-23

The LightCycler: a microvolume multisample fluorimeter with rapid temperature control. Wittwer CT, et al. **Biotechniques** 1997 Jan;22(1):176-81

Performance evaluation of the FACSCount System: a dedicated system for clinical cellular analysis. Strauss K, et al. **Cytometry** 1996 Mar 15;26(1):52-9

A high-speed gated baseline restorer and its implementation in a blood cell volume analyser. Abel EW, et al. **Med Eng Phys** 1997 Apr;19(3):267-72

Analysis of urinary red blood cells of healthy individuals by an automated urinary flow cytometer. Hyodo T, et al. **Nephron** 1997;75(4):451-7

METHODS

The application of a flow cytometric assay for evaluation of phagocytosis of neutrophils. Zielińska M, et al. **Acta Biochim Pol** 1997;44(1):121-5

Methodological aspects of flow cytometry DNA analysis in endometrial carcinoma, with special reference to sampling and reproducibility. Gudmundsson TE, et al. **Acta Oncol** 1996;35(8):999-1006

Value of neutrophil CD16 expression for detection of left shift and acute-phase response. Hübl W, et al. **Am J Clin Pathol** 1997 Feb;107(2):187-96

Gating strategy for immunophenotyping of leukemia and lymphoma. Sun T, et al. **Am J Clin Pathol** 1997 Aug; 108(2):152-7

A simple, fluorescent method to internally label platelets suitable for physiological measurements. Baker GR, et al. **Am J Hematol** 1997 Sep;56(1):17-25

Flow cytometric analysis of lymph node metastases in advanced ovarian cancer: clinical and biologic significance. Kimball RE, et al. **Am J Obstet Gynecol** 1997 Jun; 176(6):1319-26; discussion 1326-7

Flow cytometric detection of mitochondrial dysfunction in subpopulations of human mononuclear cells. Kunz D, et al. **Anal Biochem** 1997 Mar 15;246(2):218-24

A flow cytometric assay for lysosomal glucocerebrosidase. van Es HH, et al. **Anal Biochem** 1997 May 1;247(2):268-71

Options of flow cytometric three-colour DNA measurements to quantitate EGFR in subpopulations of human bladder cancer. Brockhoff G, et al. **Anal Cell Pathol** 1996 Jun; 11(1):55-70

Limits of flow-cytometry histogram analysis methods to assess bladder tumour antigen expression. Chabanas A, et al. **Anal Cell Pathol** 1997;13(1):39-47

Sequential assessment of cell cycle S phase in flow cytometry: a non-isotopic method to measure lymphocyte activation in vitro. Kohler C, et al. **Anal Cell Pathol** 1997;14(1):51-9

Cell cycle analysis of normal, atrophic, and hyperplastic breast epithelium using two-color multiparametric flow cytometry. Visscher DW, et al. **Anal Cell Pathol** 1996 Nov; 12(2):115-24

Flow cytometry analysis of malignant tumors of the head and neck--differences between two methods in the recognition of aneuploidy. Wennerberg J, et al. **Anal Cell Pathol** 1996 Dec;12(3):125-36

Non-small cell lung cancer. Morphology and DNA flow cytometry. Desinan L, et al. **Anal Quant Cytol Histol** 1996 Dec;18(6):438-52

Flow cytometric determination of binding of monoclonal antibodies to human spermatozoa. Schwarzinger F, et al. **Andrologia** 1997 May-Jun;29(3):163-8

Gastric cancer and flow cytometry: the beginning of a promising match. Melato M. **Anticancer Res** 1997 May-Jun; 17(3C):2279-84 (73 ref.)

Application of flow cytometry and fluorescent in situ hybridization for assessment of exposures to airborne bacteria. Lange JL, et al. **Appl Environ Microbiol** 1997 Apr; 63(4):1557-63

Centrifugation on Percoll gradient enhances fluorescent lectin binding on human sperm: a flow cytometric analysis. De Maistre E, et al. **Arch Androl** 1996 Nov-Dec; 37(3):179-87

Spermatozoal DNA flow cytometry and recurrent miscarriage. Drudy L, et al. **Arch Androl** 1996 Nov-Dec; 37(3):143-7

Multiparameter flow cytometric characterization of epidermal cell suspensions prepared from normal and hyperproliferative human skin using an optimized thermolysin-trypsin protocol. Glade CP, et al. **Arch Dermatol Res** 1996 Apr;288(4):203-10

Flow cytometry evaluation of complement mediated bacterial membrane damage. Alvarado-Alemán FJ. **Arch Med Res** 1996 Winter;27(4):459-63

Helper T-lymphocyte count. TRAx CD4 test kit versus conventional flow cytometry. Saah AJ, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):960-2

Magnetic flow sorting using a model system of human lymphocytes and a colloidal magnetic label. Zborowski M, et al. **ASAIO J** 1996 Sep-Oct;42(5):M666-71

Use of antibodies against the human antigen of erythroblasts for the detection of nucleated erythrocytes in the maternal circulation. Savion S, et al. **Biol Neonate** 1997;71(2):126-30

Detection of cell-surface antigens using antibody-conjugated fluorospheres (ACF): application for six-color immunofluorescence. Beavis AJ, et al. **Biotechniques** 1996 Sep;21(3):498-503

Use of flow cytometry and RT-PCR for detecting gene expression by single cells. Gaynor EM, et al. **Biotechniques** 1996 Aug;21(2):286-91

Use of a dicistronic expression cassette encoding the green fluorescent protein for the screening and selection of cells expressing inducible gene products. Mosser DD, et al. **Biotechniques** 1997 Jan;22(1):150-4, 156, 158-61

Quantification of hepatitis C virus-infected peripheral blood mononuclear cells by in situ reverse transcriptase-polymerase chain reaction. Muratori L, et al. **Blood** 1996 Oct 1;88(7):2768-74

Flow cytometry [letter; comment] Galley HF, et al. **Br J Anaesth** 1997 Feb;78(2):227-8. Comment on: Br J Anaesth 1996 Sep;77(3):387-92.

Flow cytometric S-phase fraction in soft-tissue sarcoma: prognostic importance analysed in 160 patients. Gustafson P, et al. **Br J Cancer** 1997;75(1):94-100

The cytotoxic action of four ammine/amine platinum(IV) dicarboxylates: a flow cytometric study. Ormerod MG, et al. **Br J Cancer** 1996 Dec;74(12):1935-43

Flow cytometric method for the routine follow-up of red cell populations after bone marrow transplantation. Hendriks EC, et al. **Br J Haematol** 1997 Apr;97(1):141-5

Erythropoietin receptor expression on human bone marrow erythroid precursor cells by a newly-devised quantitative flow-cytometric assay. Shinjo K, et al. **Br J Haematol** 1997 Mar;96(3):551-8

Flow-cytometric estimation on glutamate- and kainate-induced increases in intracellular Ca2+ of brain neurons: a technical aspect. Oyama Y, et al. **Brain Res** 1996 Jul 22;728(1):121-4

Analysis by flow cytometry of surface-exposed epitopes of outer membrane protein F of Pseudomonas aeruginosa. Hughes EE, et al. **Can J Microbiol** 1996 Aug;42(8):859-62

Flow cytometry: recent advances in diagnosis and monitoring of leukemia [see comments] Jennings CD, et al. **Cancer Invest** 1997;15(4):384-99 (94 ref.). Comment in: Cancer Invest 1997 ;15(4):382-3.

Expression of alpha2-macroglobulin receptor/low density lipoprotein receptor-related protein on surfaces of tumour cells: a study using flow cytometry. Li Y, et al. **Cancer Lett** 1997 Jan 1;111(1-2):199-205

Laser scanning cytometer (LSC) analysis of fraction of labelled mitoses (FLM). Gorczyca W, et al. **Cell Prolif** 1996 Oct;29(10):539-47

General concepts about cell sorting techniques. Orfao A, et al. **Clin Biochem** 1996 Feb;29(1):5-9 (60 ref.)

Automation of human sperm cell analysis by flow cytometry. Ferrara F, et al. **Clin Chem** 1997 May;43(5):801-7

Advanced multiplexed analysis with the FlowMetrix system. Fulton RJ, et al. **Clin Chem** 1997 Sep;43(9):1749-56

Comparative study of neutrophil activation by chemiluminescence and flow cytometry. Lieberman MM, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):654-62

Evaluation of a method for counting absolute numbers of cells with a flow cytometer. Nicholson JK, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):309-13

Heterogeneity of cell-associated CP5 expression on Staphylococcus aureus strains demonstrated by flow cytometry. Poutrel B, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):275-8

DNA cytometric proliferative index predicting organ confinement in clinical stage-B prostate cancer. Moussa M, et al. **Clin Invest Med** 1997 Apr;20(2):119-26

A note on specific counting of platelets using fluorescent antibodies [letter; comment] Chapman ES, et al. **Clin Lab Haematol** 1996 Jun;18(2):131-2. Comment on: Clin Lab Haematol 1995 Jun;17(2):163-72.

Comparison of two methods to detect P-glycoprotein in patients with chronic lymphocytic leukaemia. Chin-Yee I, et al. **Clin Lab Haematol** 1996 Jun;18(2):99-104

Dual CD38 and DNA staining of plasma cells in monoclonal gammopathies attained by a rapid, non-wash and automated method. Gómez-Arbonés X, et al. **Clin Lab Haematol** 1996 Jun;18(2):95-7

Assessment of the severity of hereditary spherocytosis using routine haematological data obtained with dual angle laser scattering cytometry. Ricard MP, et al. **Clin Lab Haematol** 1996 Jun;18(2):75-8

The effect of splenectomy in hereditary spherocytosis by dual angle laser light cytometry. Ricard MP, et al. **Clin Lab Haematol** 1996 Dec;18(4):249-51

Flow cytometric platelet enumeration utilizing monoclonal antibody CD42a. Tanaka C, et al. **Clin Lab Haematol** 1996 Dec;18(4):265-9

Flow cytometry crossmatching and primary cadaver kidney graft outcome: relevance of T and B cell targets, historic sera and autologous controls. LeFor WM, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):601-6

A simple flow cytometric technique to quantify rod outer segment phagocytosis in cultured retinal pigment epithelial cells. Kennedy CJ, et al. **Curr Eye Res** 1996 Sep; 15(9):998-1003

Fluorescence analysis of carrier rat and human erythrocytes loaded with FITC-dextran. Alvarez FJ, et al. **Cytometry** 1996 Jun 1;24(2):181-9

Fluorescence spectra of DNA dyes measured in a flow cytometer. Asbury CL, et al. **Cytometry** 1996 Jul 1; 24(3):234-42

Simultaneous measurement of Ca2+ and pH by laser cytometry using fluo-3 and SNARF-1. Atsumi T, et al. **Cytometry** 1996 Jun 1;24(2):99-105

Assessment of amphotericin B susceptibility in Leishmania infantum promastigotes by flow cytometric membrane potential assay. Azas N, et al. **Cytometry** 1997 Jun 1; 28(2):165-9

Uptake and efflux of polycyclic aromatic hydrocarbons by Tetrahymena pyriformis: evidence for a resistance mechanism. Bamdad M, et al. **Cytometry** 1997 Jun 1; 28(2):170-5

Allo-7: a new fluorescent tandem dye for use in flow cytometry. Beavis AJ, et al. **Cytometry** 1996 Aug 1; 24(4):390-5

FLOW CYTOMETRY

Peripheral blood mononuclear cells are a reliable internal standard for the flow cytometric DNA analysis of frozen malignant breast biopsies. Benn DE, et al. **Cytometry** 1996 Jun 15;26(2):161–5

Coaxial flow mixer for real–time monitoring of cellular responses in flow injection cytometry. Blankenstein G, et al. **Cytometry** 1996 Oct 1;25(2):200–4

Quantification of apoptotic cells with fluorescein isothiocyanate–labeled annexin V in chinese hamster ovary cell cultures treated with cisplatin. Boersma AW, et al. **Cytometry** 1996 Jun 1;24(2):123–30

Comparative analysis of whole blood lysis methods for flow cytometry. Bossuyt X, et al. **Cytometry** 1997 Jun 15; 30(3):124–33

A novel method for detecting apoptosis shows that hepatocytes undergo a time dependent increase in DNA cleavage and chromatin condensation which is augmented after TGF–beta 1 treatment. Cain K, et al. **Cytometry** 1996 Apr 1;23(4):312–21

Flow cytometric analysis of activation markers on stimulated T cells and their correlation with cell proliferation. Caruso A, et al. **Cytometry** 1997 Jan 1;27(1):71–6

Flow cytometric HLA–B27 typing using CD3 gating and molecules of equivalent soluble fluorochrome (MESF) quantitation. Chen JC, et al. **Cytometry** 1996 Dec 15; 26(4):286–92

Flow cytometric calibration of intracellular pH measurements in viable cells using mixtures of weak acids and bases. Chow S, et al. **Cytometry** 1996 Aug 1;24(4):360–7

One–tube triple staining method for flow cytometric analysis of DNA ploidy and phenotypic heterogeneity of human solid tumors using single laser excitation. Corver WE, et al. **Cytometry** 1996 Dec 1;25(4):358–66

Improved single laser measurement of two cellular antigens and DNA–ploidy by the combined use of propidium iodide and TO–PRO–3 iodide. Corver WE, et al. **Cytometry** 1997 Aug 1;28(4):329–36

Cytometry in cell necrobiology: analysis of apoptosis and accidental cell death (necrosis). Darzynkiewicz Z, et al. **Cytometry** 1997 Jan 1;27(1):1–20 (108 ref.)

Fluorescent brighteners: novel stains for the flow cytometric analysis of microorganisms. Davey HM, et al. **Cytometry** 1997 Aug 1;28(4):311–5

Double fluorescent flow cytometric assessment of bacterial internalization and binding by epithelial cells. de Boer EC, et al. **Cytometry** 1996 Dec 1;25(4):381–7

Analysis of fluorescence lifetime and quenching of FITC–conjugated antibodies on cells by phase–sensitive flow cytometry. Deka C, et al. **Cytometry** 1996 Nov 1; 25(3):271–9

Flow cytometric analysis of in vivo polyamine deprivation in Lewis lung carcinoma (3LL) cells using the monoclonal antibody SPM8–2. Delcros JG, et al. **Cytometry** 1997 Mar 1;27(3):255–61

Improved fetal nucleated erythrocyte sorting purity using intracellular antifetal hemoglobin and Hoechst 33342. DeMaria MA, et al. **Cytometry** 1996 Sep 1;25(1):37–45

Quantitative determination of surface antibody binding capacities of immune subsets present in peripheral blood of healthy adult donors. Denny TN, et al. **Cytometry** 1996 Dec 15;26(4):265–74

Multiparametric cell–cycle analysis of peripheral blood–activated lymphocyte subsets using staining based on the TdT method for incorporated BrdUrd. Dolbeare F, et al. **Cytometry** 1996 Dec 1;25(4):317–23

Enhanced flow cytometric method for counting very low numbers of white cells in platelet products. Dumont LJ, et al. **Cytometry** 1996 Dec 15;26(4):311–6

Flow cytometric analysis of nuclear matrix proteins: method and potential applications. Dynlacht JR, et al. **Cytometry** 1996 Aug 1;24(4):348–59

Encapsulation of ribonucleic acid in human red blood cells for use as a reticulocyte quality control material for flow cytometric analysis. Ebrahim A, et al. **Cytometry** 1996 Oct 1;25(2):156–63

Flow cytometric analysis of the early phases of apoptosis by cellular and nuclear techniques. Ferlini C, et al. **Cytometry** 1996 Jun 1;24(2):106–15

Novel flow cytometric analysis of the progress and route of internalization of a monoclonal anti–carcinoembryonic antigen (CEA) antibody. Ford CH, et al. **Cytometry** 1996 Mar 1;23(3):228–40

Rapid single–step method for flow cytometric detection of surface and intracellular antigens using whole blood. Francis C, et al. **Cytometry** 1996 Sep 1;25(1):58–70

Application of neural networks to flow cytometry data analysis and real–time cell classification. Frankel DS, et al. **Cytometry** 1996 Apr 1;23(4):290–302

Correlated flow cytometric analysis of terminal events in apoptosis reveals the absence of some changes in some model systems. Frey T. **Cytometry** 1997 Jul 1;28(3):253–63

Cell–associated IL–8 in human blood monocytes: analysis by flow cytometry. Fujishima S, et al. **Cytometry** 1996 Aug 1;24(4):382–9

Flow cytometric analysis of kappa and lambda light chain expression in evaluation of specimens for B–cell neoplasia. Fukushima PI, et al. **Cytometry** 1996 Dec 15;26(4):243–52

Quantitative cytometry of MHC class I digestion from living cells. Galati G, et al. **Cytometry** 1997 Jan 1;27(1):77–83

Observation of single–cell fluorescence spectra in laser flow cytometry. Gauci MR, et al. **Cytometry** 1996 Dec 1; 25(4):388–93

Flow cytometric analysis of cytosolic pH of mesophyll cell protoplasts from the crabgrass Digitaria sanguinalis. Giglioli–Guivarc'h N, et al. **Cytometry** 1996 Mar 1; 23(3):241–9

Cytokeratin labeling of breast cancer cells extracted from paraffin–embedded tissue for bivariate flow cytometric analysis. Glogovac JK, et al. **Cytometry** 1996 Jul 1; 24(3):260–7

Automated particle classification based on digital acquisition and analysis of flow cytometric pulse waveforms. Godavarti M, et al. **Cytometry** 1996 Aug 1;24(4):330–9

Analysis of variation in results of flow cytometric lymphocyte immunophenotyping in a multicenter study. Gratama JW, et al. **Cytometry** 1997 Aug 15;30(4):166–77

Improved four–color flow cytometry method using fluo–3 and triple immunofluorescence for analysis of intracellular calcium ion ([Ca2+]i) fluxes among mouse lymph node B– and T–lymphocyte subsets. Greimers R, et al. **Cytometry** 1996 Mar 1;23(3):205–17

Adaptation of a simple flow cytometric assay to identify different stages during apoptosis. Hamel W, et al. **Cytometry** 1996 Oct 1;25(2):173–81

Comparison of flow cytometry and western blotting to measure Hsp70. He L, et al. **Cytometry** 1996 Nov 1; 25(3):280–6

A novel flow cytometric method for quantifying phagocytosis of apoptotic cells. Hess KL, et al. **Cytometry** 1997 Feb 1;27(2):145–52

Establishing a pure lymphocyte gate for subset analysis by flow cytometry. Horvatinovich JM, et al. **Cytometry** 1996 Jun 15;26(2):172–7

DNA ploidy and protein content in bronchioloalveolar carcinoma multi–variable flow cytometry. Huang MS, et al. **Cytometry** 1996 Dec 15;26(4):253–9

Analysis by flow cytometry of tyrosine–phosphorylated proteins in activated T–cell subsets on whole blood samples. Hubert P, et al. **Cytometry** 1997 Sep 1;29(1):83–91

Proposed reference method for peripheral–blood monocyte counting using fluorescence–labelled monoclonal antibodies. Hübl W, et al. **Cytometry** 1996 Mar 15; 26(1):69–74

Toward a new reference method for the leukocyte five–part differential. Hübl W, et al. **Cytometry** 1997 Apr 15; 30(2):72–84

Prostate cancer: flow cytometric methods for detection of bone marrow micrometastases. Hussain M, et al. **Cytometry** 1996 Mar 15;26(1):40–6

Nucleic acid specificity of an acridine derivative permits its use for flow cytometric analysis of the cell cycle. Jayat–Vignoles C, et al. **Cytometry** 1997 Feb 1;27(2):153–60

Natural killer cells and CD56+ T cells in the blood of multiple myeloma patients: analysis by 4–colour flow cytometry. King MA, et al. **Cytometry** 1996 Jun 15; 26(2):121–4

Use of four–colour flow cytometry to evaluate conjugate formation between human peripheral blood mononuclear cells and tumour target cells. King MA, et al. **Cytometry** 1996 Aug 1;24(4):368–73

DNA image cytometry on sections as compared with image cytometry on smears and flow cytometry in melanoma. Klapperstück T, et al. **Cytometry** 1996 Sep 1;25(1):82–9

Flow cytometric analysis of cell surface antigen recognized by monoclonal antibody (MSN–1) in normal, hyperplasia, and carcinoma of endometrial cells: its diagnostic value for endometrial carcinoma. Kobayashi Y, et al. **Cytometry** 1997 Feb 15;30(1):23–7

Flow cytometric analysis of micronucleus induction in rat bone marrow polychromatic erythrocytes by 1,2;3,4–diepoxybutane, 3,4–epoxy–1–butene, and 1,2–epoxybutane–3,4–diol. Lähdetie J, et al. **Cytometry** 1997 Jul 1;28(3):228–35

Nuclear autoantigen p330d/CENP–F: a marker for cell proliferation in human malignancies. Landberg G, et al. **Cytometry** 1996 Sep 1;25(1):90–8

Cytofluorimetric measurement of cytoplasmic myeloperoxidase by permeabilization of blood cells with the FACS lysing solution [letter; comment] Lanza F, et al. **Cytometry** 1996 Jul 1;24(3):292–5. Comment on: Cytometry 1995 Aug 1;20(4):341–8.

Comparative analysis of different permeabilization methods for the flow cytometry measurement of cytoplasmic myeloperoxidase and lysozyme in normal and leukemic cells. Lanza F, et al. **Cytometry** 1997 Jun 15;30(3):134–44

Long lasting immunological effects of ethanol after withdrawal. Laso FJ, et al. **Cytometry** 1996 Dec 15; 26(4):275–80

Trivariate flow cytometric analysis of paraffin–embedded lung cancer specimens: application of cytokeratin subtype specific antibodies to distinguish between differentiation pathways. Leers MP, et al. **Cytometry** 1997 Feb 1; 27(2):179–88

Multi–parameter flow cytometric analysis with detection of the Ki67–Ag in paraffin embedded mammary carcinomas. Leers MP, et al. **Cytometry** 1997 Mar 1;27(3):283–9

Rare event selection of fetal nucleated erythrocytes in maternal blood by flow cytometry. Lewis DE, et al. **Cytometry** 1996 Mar 1;23(3):218–27

Enzyme–generated intracellular fluorescence for single–cell reporter gene analysis utilizing Escherichia coli beta–glucuronidase. Lorincz M, et al. **Cytometry** 1996 Aug 1;24(4):321–9

Resolution of mitotic cells using laser scanning cytometry. Luther E, et al. **Cytometry** 1996 Apr 1;23(4):272–8

Rapid generation and flow cytometric analysis of stable GFP–expressing cells. Lybarger L, et al. **Cytometry** 1996 Nov 1;25(3):211–20

Analysis of surface density of expression of molecules by flow cytometry [letter; comment] Mahalingam M. **Cytometry** 1996 Jun 1;24(2):190. Comment on: Cytometry 1995 Dec 1;21(4):338–43.

Measurement of T–cell CD69 expression: a rapid and efficient means to assess mitogen– or antigen–induced proliferative capacity in normals. Mardiney M 3rd, et al. **Cytometry** 1996 Dec 15;26(4):305–10

DiOC2(3) is not a substrate for multidrug resistance protein (MRP)–mediated drug efflux. Minderman H, et al. **Cytometry** 1996 Sep 1;25(1):14–20

Reducing cellular autofluorescence in flow cytometry: an in situ method. Mosiman VL, et al. **Cytometry** 1997 Jun 15;30(3):151–6

Three–color supplement to the NIAID DAIDS guideline for flow cytometric immunophenotyping. Nicholson J, et al. **Cytometry** 1996 Sep 15;26(3):227–30

Use of CD45 fluorescence and side–scatter characteristics for gating lymphocytes when using the whole blood lysis procedure and flow cytometry. Nicholson JK, et al. **Cytometry** 1996 Mar 15;26(1):16–21

Sensitivity of combined DNA/immunophenotype flow cytometry for the detection of low levels of aneuploid lymphoblastic leukemia cells in bone marrow. Nowak R, et al. **Cytometry** 1997 Feb 15;30(1):47–53

Comparison of Vindelov et al. and bromodeoxyuridine/DNA double–staining flow cytometry methods for analysis of cell cycle distribution in rat thymocytes. Orfao A, et al. **Cytometry** 1996 Sep 1;25(1):104–8

Tissue disaggregation for flow cytometric DNA analysis: comparison of fine–needle aspiration and an automated mechanical procedure. Ottesen GL, et al. **Cytometry** 1996 Mar 15;26(1):65–8

Peripheral blood lymphocyte binding to a soluble FITC–fibronectin conjugate. Pallis M, et al. **Cytometry** 1997 Jun 1;28(2):157–64

Culture of malaria parasites in two different red blood cell populations using biotin and flow cytometry. Pattanapanyasat K, et al. **Cytometry** 1996 Nov 1; 25(3):287–94

Flow cytometric assessment of hydroxypyridinone iron chelators on in vitro growth of drug–resistant malaria. Pattanapanyasat K, et al. **Cytometry** 1997 Jan 1;27(1):84–91

A flow cytometric method for measurement of intracellular chloride concentration in lymphocytes using the halide–specific probe 6–methoxy–N–(3–sulfopropyl) quinolinium (SPQ). Pilas B, et al. **Cytometry** 1997 Aug 1; 28(4):316–22

Detection of apoptosis in live cells by MitoTracker red CMXRos and SYTO dye flow cytometry. Poot M, et al. **Cytometry** 1997 Apr 1;27(4):358–64

Accuracy of least squares designed spatial FIR filters for segmentation of images of fluorescence stained cell nuclei. Price JH, et al. **Cytometry** 1996 Dec 1;25(4):303–16

Immunocytochemistry and flow cytometry evaluation of human megakaryocytes in fresh samples and cultures of CD34+ cells. Qiao X, et al. **Cytometry** 1996 Mar 1; 23(3):250–9

Slit–scan flow cytometry for consistent high resolution DNA analysis of X– and Y–chromosome bearing sperm [published erratum appears in Cytometry 1996 Dec 1;25(4):403] Rens W, et al. **Cytometry** 1996 Oct 1; 25(2):191–9

Detection of apoptosis by flow cytometry of cells simultaneously stained for intracellular pH (carboxy SNARF–1) and membrane permeability (Hoechst 33342). Reynolds JE, et al. **Cytometry** 1996 Dec 1;25(4):349–57

Cy7PE and Cy7APC: bright new probes for immunofluorescence. Roederer M, et al. **Cytometry** 1996 Jul 1;24(3):191–7

Flow cytometric analysis of gelatinase B (MMP–9) activity using immobilized fluorescent substrate on microspheres. St–Pierre Y, et al. **Cytometry** 1996 Dec 1;25(4):374–80

Association between flow cytometric S–phase fraction and apoptotic rate in breast cancer. Samoszuk MK, et al. **Cytometry** 1996 Dec 15;26(4):281–5

Flow cytometric analysis and confocal imaging of anticancer alkylaminoanthraquinones and their N–oxides in intact human cells using 647–nm krypton laser excitation. Smith PJ, et al. **Cytometry** 1997 Jan 1;27(1):43–53

Flow cytometric detection and quantitative analysis of the GM–CSF receptor in human granulocytes and comparison with the radioligand binding assay. Stacchini A, et al. **Cytometry** 1996 Aug 1;24(4):374–81

Flow cytometric analysis of apoptosis and bcl–2 in primary breast carcinomas: clinical and biological implications. Steck K, et al. **Cytometry** 1996 Jun 1;24(2):116–22

A comparison of cytogenetic studies and flow cytometry in breast carcinomas. Steinardóttir M, et al. **Cytometry** 1997 Aug 1;28(4):323–8

Karyotyping of individual cells with flow cytometry. Stepanov SI, et al. **Cytometry** 1996 Apr 1;23(4):279–83

Three–parameter flow cytometric analysis of rat spermatogenesis. Suter L, et al. **Cytometry** 1997 Feb 1; 27(2):161–8

Comparison of cytogenetics, interphase cytogenetics, and DNA flow cytometry in bone tumors. Tarkkaren M, et al. **Cytometry** 1996 Sep 15;26(3):185–91

Rare-event sorting by fixed-time flow cytometry based on changes in intracellular free calcium. Tárnok A. **Cytometry** 1997 Jan 1;27(1):65–70

Detection of plasma membrane Ca(2+)-ATPase activity in mouse T lymphocytes by flow cytometry using fluo-3-loaded vesicles. Telford WG, et al. **Cytometry** 1996 Jul 1;24(3):243–50

Quantitative flow cytometric detection of specific microorganisms in soil samples using rRNA targeted fluorescent probes and ethidium bromide. Thomas JC, et al. **Cytometry** 1997 Mar 1;27(3):224–32

A novel assay to measure loss of plasma membrane asymmetry during apoptosis of adherent cells in culture. van Engeland M, et al. **Cytometry** 1996 Jun 1;24(2):131–9

Rapid assessment of ceftazidime, ciprofloxacin, and gentamicin susceptibility in exponentially-growing E. coli cells by means of flow cytometry. Walberg M, et al. **Cytometry** 1997 Feb 1;27(2):169–78

Measurement of apoptosis in heterogenous cell populations. Weber GF, et al. **Cytometry** 1997 Feb 1;27(2):136–44

Separation of cells at different times within G2 and mitosis by cyclin B1 flow cytometry. Widrow RJ, et al. **Cytometry** 1997 Mar 1;27(3):250–4

Detection of myeloma cells in the peripheral blood by flow cytometry. Witzig TE, et al. **Cytometry** 1996 Jun 15; 26(2):113–20

Supravital exposure to propidium iodide identifies apoptotic cells in the absence of nucleosomal DNA fragmentation. Zamai L, et al. **Cytometry** 1996 Apr 1;23(4):303–11

Surface antigen expression on CD34+ cord blood cells: comparative analysis by flow cytometry and limiting dilution (LD) RT-PCR of chymopapain-treated or untreated cells. Ziegler BL, et al. **Cytometry** 1996 Sep 1; 25(1):46–57

Nuclear grading and flow cytometric DNA pattern in fine-needle aspirates of primary breast cancer. Bozzetti C, et al. **Diagn Cytopathol** 1996 Aug;15(2):116–20

Early diagnosis of low grade malignant lymphoma and chronic lymphocytic leukaemia. Verification of morphologically suspected malignancy in blood lymphocytes by flow cytometry. Schleiffenbaum BE, et al. **Eur J Haematol** 1996 Nov;57(5):341–8

Flow cytometry cross-match. Brando B, et al. **Eur J Histochem** 1996;40 Suppl 1:53–62 (26 ref.)

The use of flow cytometry to detect minimal residual disease in acute leukemia. Campana D, et al. **Eur J Histochem** 1996; 40 Suppl 1:39–42 (19 ref.)

Flow-cytometric quantitation in chronic leukemias. Lavabre-Bertrand T. **Eur J Histochem** 1996;40 Suppl 1:33–8 (56 ref.)

High-resolution cell cycle analysis of defined phenotypic subsets within primitive human hematopoietic cell populations. Jordan CT, et al. **Exp Hematol** 1996 Sep; 24(11):1347–55

Cell cycle modulation by hematopoietic growth factors in myelodysplastic syndromes: analysis by three-color flow cytometry. Ogata K, et al. **Exp Hematol** 1997 Jan; 25(1):8–18

Flow cytometric assay for cytotoxic activity of crude Clostridium perfringens enterotoxin using non-adherent cell FM3A. Hu D, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3–4):239–44

Acridine orange as an indicator of bacterial susceptibility to gentamicin. Mason DJ, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):199–204

Novel fluorescein-based flow-cytometric method for detection of lipid peroxidation. Makrigiorgos GM, et al. **Free Radic Biol Med** 1997;22(1–2):93–100

Flow cytometric DNA ploidy and cells phase fractions in recurrent human pituitary adenomas. A correlative study of flow cytometric analysis and the expression of proliferating cell nuclear antigen. Chae YS, et al. **Gen Diagn Pathol** 1996 Oct;142(2):89–95

Interlaboratory reproducibility of the interpretation of flow cytometric DNA histograms [letter; comment] Seidman JD. **Hum Pathol** 1997 Feb;28(2):257–8. Comment on: Hum Pathol 1996 Jun;27(6):553–60.

Application of flow cytometry in transplantation medicine. Shanahan T. **Immunol Invest** 1997 Jan-Feb;26(1–2):91–101 (25 ref.)

Identification and function of host defense cells by flow cytometry. Stewart CC. **Immunol Invest** 1997 Jan-Feb; 26(1–2):83–9 (6 ref.)

Rapid determination of gamma delta T-cell stimulation by microfluorimetry. Schoel B, et al. **Immunol Lett** 1996 Nov; 53(2–3):135–9

Demonstration of functionally distinct human polymorphonuclear leukocyte fractions by simultaneous measurement of phagocytosis and oxygen radical generation. Takano K, et al. **Int J Hematol** 1997 Jul; 66(1):69–78

Flow cytometry in impression cytology specimens. A new method for evaluation of conjunctival inflammation. Baudouin C, et al. **Invest Ophthalmol Vis Sci** 1997 Jun; 38(7):1458–64

A flow cytometric study of antibiotic-induced damage and evaluation as a rapid antibiotic susceptibility test for methicillin-resistant Staphylococcus aureus. Suller MT, et al. **J Antimicrob Chemother** 1997 Jul;40(1):77–83

Rapid flow cytometric assessment of mecillinam and ampicillin bacterial susceptibility. Walberg M, et al. **J Antimicrob Chemother** 1996 Jun;37(6):1063–75

Flow cytometry for rapid assessment of viability after exposure to a quaternary ammonium compound. Langsrud S, et al. **J Appl Bacteriol** 1996 Oct;81(4):411–8

Cytokine flow cytometry: understanding cytokine biology at the single-cell level. Prussin C. **J Clin Immunol** 1997 May;17(3):195–204 (28 ref.)

Standardization of bivariate flow karyotypes of human chromosomes for clinical applications. Kuriki H, et al. **J Clin Lab Anal** 1997;11(3):169–74

Rapid susceptibility testing for nontuberculosis mycobacteria using flow cytometry. Bownds SE, et al. **J Clin Microbiol** 1996 Jun;34(6):1386–90

Flow cytometric immunofluorescence assay for detection of antibodies to human immunodeficiency virus type 1 using insoluble precursor forms of recombinant polyproteins as carriers and antigens. Hu YW, et al. **J Clin Microbiol** 1996 Jun;34(6):1412–9

Rapid susceptibility testing of Candida albicans by flow cytometry. Kirk SM, et al. **J Clin Microbiol** 1997 Feb; 35(2):358–63

Rapid flow cytometric susceptibility testing of Candida albicans. Ramani R, et al. **J Clin Microbiol** 1997 Sep; 35(9):2320–4

Flow cytometric detection of Cryptosporidium oocysts in human stool samples. Valdez LM, et al. **J Clin Microbiol** 1997 Aug;35(8):2013–7

The influence of flow cytometric gating strategy on the standardization of CD34+ cell quantitation: an Australian multicenter study. Australasian BMT Scientists Study Group. Chang A, et al. **J Hematother** 1996 Dec;5(6):605–16

Detection of intracellular interleukin-8 in human mast cells: flow cytometry as a guide for immunoelectron microscopy. Grützkau A, et al. **J Histochem Cytochem** 1997 Jul; 45(7):935–45

Flow-cytometric screening for the modulation of receptor-mediated endocytosis in human dendritic cells: implications for the development of an in vitro technique for predictive testing of contact sensitizers. Becker D, et al. **J Immunol Methods** 1997 Apr 25;203(2):171–80

The use of Apostain in identifying early apoptosis. Ferlini C, et al. **J Immunol Methods** 1997 Jun 23;205(1):95–101

Flow cytometric identification of murine neutrophils and monocytes. Lagasse E, et al. **J Immunol Methods** 1996 Oct 16;197(1–2):139–50

Comparative analysis of flow cytometric methods for apoptosis quantitation in murine thymocytes and human peripheral lymphocytes from controls and HIV-infected persons. Evidence for interference by granulocytes and erythrocytes. Lecoeur H, et al. **J Immunol Methods** 1996 Oct 30;198(1):87–99

A sensitive flow cytometric method for measuring the oxidative burst. Model MA, et al. **J Immunol Methods** 1997 Mar 28;202(2):105–11

A flow cytometric method for the rapid detection of beta-galactosidase transfected cells: an in vitro and in vivo study. Mouawad R, et al. **J Immunol Methods** 1997 May 12;204(1):51–6

Flow cytometric quantitation of attachment and phagocytosis in phenotypically-defined subpopulations of cells using PKH26-labeled Fc gamma R-specific probes. Pricop L, et al. **J Immunol Methods** 1997 Jun 23;205(1):55–65

A simple method for the flow cytometric analysis of intracellular antigens in whole smooth muscle cells: quantification of cyclin-dependent kinase 2. Sindermann J, et al. **J Immunol Methods** 1997 Mar 28;202(2):205–12

Flow cytometric analysis of the H2O2-induced increase in intracellular Ca2+ concentration of rat thymocytes. Okazaki E, et al. **Jpn J Pharmacol** 1996 Aug;71(4):273–80

Flow cytometry analysis of pan-T-, CD4(+)-, CD8(+)-, and pan-B lymphocytes in blood samples obtained from healthy, nontreated rats: comparison of lymphocyte subpopulations in blood samples obtained from rat heart and tail. Jensen JE, et al. **Lab Anim Sci** 1996 Oct; 46(5):579–81

DNA ploidy, S-phase, and Ki-67 antigen expression in the evaluation of cell content of pleural effusions. Sikora J, et al. **Lung** 1996;174(5):303–13

In vitro confirmation of newly established lung cancer cell lines using flow cytometry and multicellular tumor spheroids. Inoue S, et al. **Lung Cancer** 1997 May; 17(1):85–101

Red cell age by flow cytometry. Nusbaum NJ. **Med Hypotheses** 1997 Jun;48(6):469–72

Flow cytometric analysis of tumor DNA profile related to response to treatment and survival in small-cell lung cancer. Virén MM, et al. **Med Oncol** 1997 Mar;14(1):35–8

Fine needle aspiration for flow cytometry immunophenotyping of non Hodgkin lymphoma. Sapia S, et al. **Medicina (B Aires)** 1995;55(6):675–80

Fluorescence-activated cell sorting of transfected cells. Adams PD, et al. **Methods Enzymol** 1997;283:59–72

Energy transfer methods for detecting molecular clusters on cell surfaces. Matko J, et al. **Methods Enzymol** 1997; 278:444–62 (56 ref.)

Flow cytometry analysis of an in situ PCR for the detection of human immunodeficiency virus type-1 (HIV-1) proviral DNA. Gibellini DE, et al. **Methods Mol Biol** 1997; 71:113–22 (23 ref.)

Flow cytometry and cell sorting of heterogeneous microbial populations: the importance of single-cell analyses. Davey HM, et al. **Microbiol Rev** 1996 Dec;60(4):641–96 (1073 ref.)

Simultaneous analysis of peripheral blood granulocytes, lymphocytes, and monocytes adhering to human microvascular endothelial cells. Heckmann M, et al. **Microvasc Res** 1996 Sep;52(2):101–14

Lack of correlation between flow cytometric and immunohistologic proliferation measurements of tumors. Linden MD, et al. **Mod Pathol** 1996 Jun;9(6):682–9

Measurement of intracellular pH in human spermatozoa by flow cytometry with the benzo[c]xanthene dye SNAFL-1: a novel, single excitation, dual emission, molecular probe. Brook PF, et al. **Mol Hum Reprod** 1996 Jan;2(1):18–25

Analysis of the flow cytometer stain Hoechst 33342 on human spermatozoa. Watkins AM, et al. **Mol Hum Reprod** 1996 Sep;2(9):709–12

Comparison of detergent-solubilized membrane and soluble proteins from flow cytometrically sorted X- and Y-chromosome bearing porcine spermatozoa by high resolution 2-D electrophoresis. Hendriksen PJ, et al. **Mol Reprod Dev** 1996 Nov;45(3):342–50

Errors and pitfalls in diagnostic cytology: new techniques applied to cytopathology. Ross JS. **Monogr Pathol** 1997; (39):94–117 (75 ref.)

Quantitative and qualitative studies of micronucleus induction in mouse erythrocytes using flow cytometry. I. Measurement of micronucleus induction in peripheral blood polychromatic erythrocytes by chemicals with known and suspected genotoxicity. Grawé J, et al. **Mutagenesis** 1997 Jan;12(1):1–8

Quantitative and qualitative studies of micronucleus induction in mouse erythrocytes using flow cytometry. II. Analysis of micronuclei of aneugenic and clastogenic origin by dual-colour FISH on populations of bone marrow PCEs flow sorted on the basis of their relative DNA content. Grawé J, et al. **Mutagenesis** 1997 Jan;12(1):9–16

Flow cytometric analysis of micronucleated reticulocytes in mouse bone marrow. Dertinger SD, et al. **Mutat Res** 1997 May 23;390(3):257–62

Flow cytometric analysis of micronuclei in cell cultures and human lymphocytes: advantages and disadvantages. Nüsse M, et al. **Mutat Res** 1997 Aug 1;392(1–2):109–15

Gel microdrop technology for rapid isolation of rare and high producer cells. Weaver JC, et al. **Nat Med** 1997 May; 3(5):583–5

The validity of the criteria to differentiate the origin of hematuria in the automated urinary flow cytometer [letter] Hyodo T, et al. **Nephron** 1997;75(1):112

Prediction of drug cytotoxicity in 9L rat brain tumor by using flow cytometry with a deoxyribonucleic acid-binding dye. Iwadate Y, et al. **Neurosurgery** 1997 Apr;40(4):782–7; discussion 787–8

Large DNA fragment sizing by flow cytometry: application to the characterization of P1 artificial chromosome (PAC) clones. Huang Z, et al. **Nucleic Acids Res** 1996 Nov 1; 24(21):4202–9

Fine-needle aspiration of lymph nodes: use of flow cytometry immunophenotyping. Cha I, et al. **Pathology (Phila)** 1996; 4(2):337–64 (50 ref.)

Analysis of pleural effusions using flow cytometry. Ceyhan BB, et al. **Respiration** 1996;63(1):17–24

DNA cell cycle analysis of K562 and Ehrlich tumor cells by flow cytometry. Radu DL, et al. **Roum Arch Microbiol Immunol** 1996 Jul-Sep;55(3):193–203

Comparison of a semi-automated new Coulter methylene blue method with fluorescence flow cytometry in reticulocyte counting. Rudensky B. **Scand J Clin Lab Invest** 1997 Jul;57(4):291–6

Evaluation of T cell subsets by an immunocytochemical method compared to flow cytometry in four countries. Lisse IM, et al. **Scand J Immunol** 1997 Jun;45(6):637–44

Measurement of fluorescent-labeled LMM-heparin in biological fluids using protamine-linked microbeads. Malsch R, et al. **Semin Thromb Hemost** 1997;23(1):23–30

The importance of platelets in the expression of monocyte tissue factor antigen measured by a new whole blood flow cytometric assay. Amirkhosravi A, et al. **Thromb Haemost** 1996 Jan;75(1):87–95

A new flow cytometry method of platelet-derived microvesicle quantitation in plasma [letter] Combes V, et al. **Thromb Haemost** 1997 Jan;77(1):220

Measurement of glycoprotein IIb/IIIa blockade by flow cytometry with fluorescein isothiocyanate-conjugated crotavirin, a member of disintegrins. Liu CZ, et al. **Thromb Haemost** 1996 Oct;76(4):585–91

Lymphocytes subsets in normal individuals: analysis by four color immunofluorescence and flow cytometry on whole blood. Schiavon V, et al. **Tissue Antigens** 1996 Oct;48(4 Pt 1):312–8

A rapid method for detection of nongenotoxic carcinogens of environmental pollutants using synchronized V79 cells and flow cytometry. Hader C, et al. **Toxicol Lett** 1996 Nov; 88(1–3):99–108

Flow cytometric analysis of platelet membrane antigens during and after continuous-flow plateletpheresis. Gutensohn K, et al. **Transfusion** 1997 Aug;37(8):809–15

A modified flow cytometric method for counting very low numbers of white cells in platelet concentrates [letter; comment] Tanaka M, et al. **Transfusion** 1997 Jan; 37(1):102–3. Comment on: Transfusion 1993 Mar;33(3):256–61. Comment on: Transfusion 1993 Mar;33(3):262–7.

Flow cytometry: is it the ultimate crossmatch technique in living donors? Klein T, et al. **Transplant Proc** 1997 Sep; 29(6):2647–8

FLOW CYTOMETRY

Importance of methodology in the flow cytometric crossmatch: a multicentre study. Shenton BK, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1454–5

Urine flow cytometry as a predictor of renal allograft function. Roberti I, et al. **Transplantation** 1997 Mar 15; 63(5):781–2

Urine flow cytometry as a tool to differentiate acute allograft rejection from other causes of acute renal graft dysfunction. Roberti I, et al. **Transplantation** 1997 Sep 15;64(5):731–4

Flow cytometric analysis of the reactivity of workshop monoclonal antibodies on sheep lymph node cells, after infection with Salmonella abortusovis. Bernard S, et al. **Vet Immunol Immunopathol** 1996 Aug;52(4):403–9

Simultaneous flow cytometric measurement of phagocytotic and oxidative burst activity of polymorphonuclear leukocytes in whole bovine blood. Smits E, et al. **Vet Immunol Immunopathol** 1997 May;56(3–4):259–69

[Use of flow cytometry for HLA B27 phenotyping: study of a HLA B7/HLA B27 double marker technique] Ulrich G. **Allerg Immunol (Paris)** 1997 Jan;29(1):11–4 (Eng. Abstr.) **(Fre)**

[Evaluation of reticulocyte count on Cell-Dyn 3500 automate: comparison with a flow cytometry technique] Alvarez C, et al. **Ann Biol Clin (Paris)** 1997 May–Jun; 55(3):215–21 (Eng. Abstr.) **(Fre)**

[In vivo evaluation of potential doubling time (Tpot) of tumors by flow cytometry: practical difficulties and possible solutions] Gorisse MC, et al. **Bull Cancer** 1996 Oct; 83(10):825–34 (29 ref.) (Eng. Abstr.) **(Fre)**

[Flow cytometry analysis of CD34 expressing hematopoietic cells in blood and cytapheresis products] Gutensohn K, et al. **Infusionsther Transfusionsmed** 1996 Jun;23 Suppl 2:1–23 (68 ref.) **(Ger)**

[DNA cytometry in breast carcinoma. Review of method and value in assessing prognosis] Sinn HP, et al. **Pathologe** 1997 Jan;18(1):19–26 (81 ref.) (Eng. Abstr.) **(Ger)**

[Cell biology of bronchial asthma: interesting new methods. Intracellular determination of cytokines in T-cells and basic proteins in eosinophilic granulocytes using flow cytometry] Krug N, et al. **Pneumologie** 1997 Apr;51(4):381–5 (26 ref.) (Eng. Abstr.) **(Ger)**

[Detection of human cytomegalovirus-antigen in peripheral blood cells by using flow-cytometer] Honda J, et al. **Kansenshogaku Zasshi** 1996 Sep;70(9):923–30 (Eng. Abstr.) **(Jpn)**

STANDARDS

Comparison study results [letter; comment] **Cytometry** 1997 Apr 15;30(2):103–7. Comment on: Cytometry 1995 Dec 15;22(4):331–2. Comment on: Cytometry 1995 Dec 15;22(4):332–3.

Quality control study by the French Cytometry Association on flow cytometric DNA content and S-phase fraction (S%). The Association Française de Cytométrie. D'hautcourt JL, et al. **Cytometry** 1996 Mar 15;26(1):32–9

Analysis of variation in results of CD34+ hematopoietic progenitor cell enumeration in a multicenter study. Gratama JW, et al. **Cytometry** 1997 Jun 15;30(3):109–17

Reduction of interlaboratory variability in flow cytometric immunophenotyping by standardization of instrument set-up and calibration, and standard list mode data analysis. Gratama JW, et al. **Cytometry** 1997 Feb 15;30(1):10–22

Reference intervals of CD3, CD4, CD8, CD4/CD8, and absolute CD4 values in Asian and Non-Asian populations. Howard RR, et al. **Cytometry** 1996 Sep 15;26(3):231–2

Survey of quality assurance/quality control practices for CD4+ lymphocyte counting. Koepke JA. **Cytometry** 1996 Jun 15;26(2):178–80

How many gated lymphocytes are needed for accurate assessment of T-subset percentages by flow cytometry? Lape'-Nixon ML, et al. **Cytometry** 1996 Sep 15;26(3):223–6

Standardizing flow cytometry: construction of a standardized fluorescence calibration plot using matching spectral calibrators. Schwartz A, et al. **Cytometry** 1996 Mar 15; 26(1):22–31

Quality control study of the Italian Group of Cytometry on flow cytometry DNA content measurements: II. Factors affecting inter- and intralaboratory variability. Tirindelli Danesi D, et al. **Cytometry** 1997 Apr 15;30(2):85–97

Flow cytometric DNA ploidy and S-phase fraction correlate with histopathologic indicators of tumor behavior in colorectal carcinoma. Pinto AE, et al. **Dis Colon Rectum** 1997 Apr;40(4):411–9

Towards standardization in immunophenotyping hematological malignancies. How can we improve the reproducibility and comparability of flow cytometric results? Working Group on Leukemia Immunophenotyping. Lanza F. **Eur J Histochem** 1996;40 Suppl 1:7–14 (43 ref.)

Quantitation of hemopoietic cell antigens in flow cytometry. Poncelet P, et al. **Eur J Histochem** 1996;40 Suppl 1:15–32 (120 ref.)

Quality control procedures for flow cytometric applications in the hematology laboratory. D'hautcourt JL. **Hematol Cell Ther** 1996 Dec;38(6):467–70

Benign and malignant eccrine poroma—a flow cytometric comparison. Hagler J, et al. **Isr J Med Sci** 1996 Dec; 32(12):1151–3

Toward a worldwide standard for CD34+ enumeration? [letter] Johnsen HE. **J Hematother** 1997 Apr;6(2):83–9

Nordic flow cytometry standards for CD34+ cell enumeration in blood and leukapheresis products: report from the second Nordic Workshop. Nordic Stem Cell Laboratory Group (NSCL-G). Johnsen HE, et al. **J Hematother** 1996 Jun;5(3):237–45

Assessment of peripheral blood stem cell grafts by CD34+ cell enumeration: toward a standardized flow cytometric approach [editorial; comment] Sutherland DR. **J Hematother** 1996 Jun;5(3):209–10. Comment on: J Hematother 1996 Jun;5(3):227–36.

The ISHAGE guidelines for CD34+ cell determination by flow cytometry. International Society of Hematotherapy and Graft Engineering. Sutherland DR, et al. **J Hematother** 1996 Jun;5(3):213–26

Evaluation of methods for preparing and thawing cryopreserved CD34+ and CD34- cell lines for use as reagents in flow cytometry of hematopoietic progenitor cells. Bowman CA, et al. **Transfusion** 1996 Nov-Dec; 36(11–12):985–8

STATISTICS & NUMERICAL DATA

Theoretical basis for sampling statistics useful for detecting and isolating rare cells using flow cytometry and cell sorting. Rosenblatt JI, et al. **Cytometry** 1997 Mar 1; 27(3):233–8

TRENDS

New flow cytometric technologies for the 21st century. Roslaniec MC, et al. **Hum Cell** 1997 Mar;10(1):3–10 (14 ref.)

FLOW INJECTION ANALYSIS

Simultaneous spectrofluorimetric determination of selenium (IV) and (VI) by flow injection analysis. Ahmed MJ, et al. **Analyst** 1997 Mar;122(3):221–6

Spectrophotometric determination of urinary iodine by flow-injection analysis with on-line catalytic digestion. Yaping Z, et al. **Clin Chem** 1996 Dec;42(12):2021–7

Biosensors based on flow-through systems. Spener F, et al. **EXS** 1997;81:27–44

New technologies for amperometric biosensors. Boutelle MG, et al. **J Mol Recognit** 1996 Sep-Dec;9(5–6):664–71

Principles and applications of flow injection analysis in biosensors. Hansen EH. **J Mol Recognit** 1996 Sep-Dec; 9(5–6):316–25 (39 ref.)

Biosensors in flow-injection systems for biomedical analysis, process and environmental monitoring. Tran-Minh C. **J Mol Recognit** 1996 Sep-Dec;9(5–6):658–63

Determination of acid values of fats and oils by flow injection analysis with electrochemical detection. Fuse T, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1515–9

Flow injection amperometric determination of L-dopa, epinephrine or dopamine in pharmaceutical preparations. Garrido EM, et al. **J Pharm Biomed Anal** 1997 Mar; 15(6):845–9

Flow injection analysis for measurement of activity of matrix metalloproteinase-7 (MMP-7). Itoh M, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1417–26

Flow-injection biamperometric determination of epinephrine. Mateo JV, et al. **J Pharm Biomed Anal** 1997 Aug;15(12):1821–8

Quantitation of glycerophosphorylcholine by flow injection analysis using immobilized enzymes. Mancini A, et al. **Mol Cell Biochem** 1996 Sep 20;162(2):83–7

INSTRUMENTATION

Optimization of a polarized photometric detector equipped with a split-type flow cell and its analytical application to oligo-saccharides. Yamamoto A, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1383–7

METHODS

Flow injection analysis of some nonapeptides derivatized with 4-fluoro-7-nitrobenzo-2,1,3-oxadiazole. Baeyens WR, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):109–10

Precipitation flow-injection immunoassay for human IgG. Hacker A, et al. **Biomed Chromatogr** 1997 Mar-Apr; 11(2):105–6

Flow-injection analysis of cobalt(II) utilizing enhanced lophine chemiluminescence with hydroxylammonium chloride. Nakashima K, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):63–4

Automated flow-injection fluorimetric determination of different penicillins in pharmaceutical dosage forms. Solich P, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):65–6

Chemiluminescence determination of tiopronin by flow injection analysis based on cerium (IV) oxidation sensitized by quinine. Zhao Y, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):117–8

Electrochemiluminescence flow injection immunoassay for atrazine. Wilson R, et al. **Biosens Bioelectron** 1997; 12(4):277–86

Drug substance manufacture process control: application of flow injection analysis and HPLC for monitoring an enantiospecific synthesis. Chong K, et al. **J Pharm Biomed Anal** 1996 Oct;15(1):111–21

Development and validation of a flow-injection method for the determination of albumin tannate, the active component of a pharmaceutical preparation. Gámiz Gracia L, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):447–52

Potentiometric flow injection determination of serum bromide in patients with epilepsy. Katsu T, et al. **J Pharm Biomed Anal** 1997 Aug;15(12):1829–32

FLOW MICROFLUORIMETRY see **FLOW CYTOMETRY**

FLOW, PULSATING see **PULSATILE FLOW**

FLOWCHARTS (COMPUTER) see **SOFTWARE DESIGN**

FLOWMETRY see **RHEOLOGY**

FLOWMETRY, LASER-DOPPLER see **LASER-DOPPLER FLOWMETRY**

FLOXACILLIN

ADVERSE EFFECTS

Adverse hepatic events associated with drug therapy [letter] Hewitt J, et al. **Med J Aust** 1996 Sep 16;165(6):347, 350

METABOLISM

Re: B. L. Røder, et al.: Dicloxacillin and flucloxacillin: pharmacokinetics, protein binding and serum bactericidal titers in healthy subjects after oral administration (Infection 23 [1995] 107–112) [letter; comment] Thijssen HH. **Infection** 1996 May-Jun;24(3):272. Comment on: Infection 1995 Mar-Apr;23(2):107–12.

PHARMACOKINETICS

Distribution of systemically administered ampicillin, benzylpenicillin, and flucloxacillin in excisional wounds in diabetic and normal rats and effects of local topical vasodilator treatment. Cross SE, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1703–10

Lack of interaction between flucloxacillin and methotrexate in patients with rheumatoid arthritis. Herrick AL, et al. **Br J Clin Pharmacol** 1996 Mar;41(3):223–7

PHARMACOLOGY

Combination of flucloxacillin and gentamicin inhibits toxic shock syndrome toxin 1 production by Staphylococcus aureus in both logarithmic and stationary phases of growth. van Langevelde P, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1682–5

In-vitro modelling of the bactericidal activity of teicoplanin versus flucloxacillin as used in surgical prophylaxis, against Staphylococcus aureus. Steer JA, et al. **J Antimicrob Chemother** 1997 Apr;39(4):477–81

Drug delivery concepts for the efficacious prevention of foreign-body infections. Schierholz JM, et al. **Zentralbl Bakteriol** 1996 Jul;284(2–3):390–401

THERAPEUTIC USE

Teicoplanin versus flucloxacillin in the treatment of infection following burns. Steer JA, et al. **J Antimicrob Chemother** 1997 Mar;39(3):383–92

FLOXURIDINE

Use of biometric embryonic growth parameters as indicator of exposure to a teratogen. Amwayi PJ, et al. **East Afr Med J** 1997 Jan;74(1):6–11

ADMINISTRATION & DOSAGE

Randomized phase II noncomparative trial of oral and intravenous doxifluridine plus levo-leucovorin in untreated patients with advanced colorectal carcinoma. Bajetta E, et al. **Cancer** 1996 Nov 15;78(10):2087–93

Regional versus systemic chemotherapy in the treatment of colorectal carcinoma metastatic to the liver. Is there a survival difference? Meta-analysis of the published literature. Harmantas A, et al. **Cancer** 1996 Oct 15; 78(8):1639–45

Doxifluridine in colorectal cancer patients resistant to 5-fluorouracil (5-FU) containing regimens. Bajetta E, et al. **Eur J Cancer** 1997 Apr;33(4):687–90

Economic implications of hepatic arterial infusion chemotherapy in treatment of nonresectable colorectal liver metastases. Meta-Analysis Group in Cancer. Durand-Zaleski I, et al. **J Natl Cancer Inst** 1997 Jun 4; 89(11):790–5

Hepatic metastases from colorectal cancer. Kemeny MM. **Tumori** 1997 Jan-Feb;83(1 Suppl):S26–7

[The alteration of PyNPase activity in breast cancers due to preoperative oral administration of 5'-DFUR] Akao S, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):685–90 (Eng. Abstr.) **(Jpn)**

[A case of advanced gastric cancer that responded to long-term administration of low-dose 5'-DFUR] Miyoshi K, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):101–3 (Eng. Abstr.) **(Jpn)**

[Significance of 5'-deoxy-5-fluorouridine (5'-DFUR) administration before surgery for advanced gastric and colonic cancers--activity of pyrimidine nucleoside phosphorylase (PyNPase) and serum immunosuppressive acidic protein (IAP)] Murakami N, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1959–66 (Eng. Abstr.) **(Jpn)**

[Pyrimidine nucleoside phosphorylase activity, 5-fluorouracil concentration and thymidylate synthase inhibition rate in colorectal cancer after oral administration of 5'-doxifluridine] Tomoda H, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):971-4 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Glycosaminoglycan biosynthesis during 5-fluoro-2-deoxyuridine-induced palatal clefts in the rat. Singh GD, et al. **Arch Oral Biol** 1997 May;42(5):355-63

ANALOGS & DERIVATIVES

Gas chromatography-mass spectrometry identification of a novel N3-methylated metabolite of 5'-deoxy-5-fluorouridine in plasma of cancer patients undergoing chemotherapy. Zambonin CG, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1521-8

BLOOD

Gas chromatography-mass spectrometry identification of a novel N3-methylated metabolite of 5'-deoxy-5-fluorouridine in plasma of cancer patients undergoing chemotherapy. Zambonin CG, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1521-8

CHEMICAL SYNTHESIS

Synthesis and properties of 5-fluorouracil oligonucleotides. Koga M, et al. **Nucleic Acids Symp Ser** 1995;(34):27-8

CHEMISTRY

Synthesis and biological activity of aromatic amino acid phosphoramidates of 5-fluoro-2'-deoxyuridine and 1-beta-arabinofuranosylcytosine: evidence of phosphoramidase activity. Abraham TW, et al. **J Med Chem** 1996 Nov 8;39(23):4569-75

DIAGNOSTIC USE

Prediction of improvement of contractile function in patients with ischemic ventricular dysfunction after revascularization by fluorine-18 fluorodeoxyglucose single-photon emission computed tomography. Bax JJ, et al. **J Am Coll Cardiol** 1997 Aug;30(2):377-83

Development of labeled thymidine analogs for imaging tumor proliferation. Shields AF, et al. **Nucl Med Biol** 1996 Jan; 23(1):17-22

METABOLISM

Gas chromatography-mass spectrometry identification of a novel N3-methylated metabolite of 5'-deoxy-5-fluorouridine in plasma of cancer patients undergoing chemotherapy. Zambonin CG, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1521-8

PHARMACOKINETICS

Modulation of the pharmacokinetics of 5'-deoxy-5-fluorouridine and 5-fluorouracil in rats by oral co-administration of acyclothymidine. Hamada A, et al. **Biol Pharm Bull** 1996 May;19(5):729-32

PHARMACOLOGY

Effects of hyperoxia and caffeine on the expression of fragile site at Xq27.3. Rafi SK, et al. **Am J Med Genet** 1996 Feb 2;61(4):299-303

Apoptosis in androgen-independent mouse mammary tumor cells induced by 5-fluorodeoxyuridine but not by androgen withdrawal. Furuya Y, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):2613-8

Enhancement of drug sensitivity and a bystander effect in PC-9 cells transfected with a platelet-derived endothelial cell growth factor thymidine phosphorylase cDNA. Kato Y, et al. **Br J Cancer** 1997;75(4):506-11

A possible role for topoisomerase II in cell death and N-phosphonoacetyl-L-aspartate-resistance frequency and its enhancement by 1-beta-D-arabinofuranosyl cytosine and 5-fluoro-2'-deoxyuridine. Goz B, et al. **Mutat Res** 1997 Aug;384(2):89-106

THERAPEUTIC USE

Use of floxuridine to modulate the antiviral activity of zidovudine. Medina DJ, et al. **AIDS Res Hum Retroviruses** 1996 Jul 20;12(11):965-8 (7 ref.)

Phase II study of oral doxifluridine in elderly patients with advanced non-small-cell lung cancer. Baldini E, et al. **Am J Clin Oncol** 1996 Dec;19(6):592-4

A prospective randomized administration of 5'-deoxy-5-fluorouridine as adjuvant chemotherapy for hepatocellular carcinoma treated with transcatheter arterial chemoembolization. Ikeda K, et al. **Am J Clin Oncol** 1997 Apr;20(2):202-8

Chemotherapy with FUDR in the management of metastatic renal cell carcinoma. Aveta P, et al. **Ann Urol (Paris)** 1997; 31(3):159-63

Effects of 5'-DFUR and OK-432 on cytokines and thymidine phosphorylase in tumor tissue of gastric cancer patients. Ohwada S, et al. **Anticancer Res** 1997 May-Jun; 17(3C):2313-8

Thymidylate synthase is a predictor for response and resistance in hepatic artery infusion chemotherapy. Kornmann M, et al. **Cancer Lett** 1997 Sep 16;118(1):29-35

Inhibitory effects of fluorinated pyrimidines, 5'-DFUR, UFT and T-506, in a model of hepatic metastasis of mouse colon 26 adenocarcinoma-assessment of inhibitory activity and adverse reactions at the maximum tolerated dose. Tazawa K, et al. **Clin Exp Metastasis** 1997 May;15(3):266-71

Long-term results of hepatic artery fluorodeoxyuridine and conformal radiation therapy for primary hepatobiliary cancers. Robertson JM, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):325-30

Antitumor effects of 5'-deoxy-5-fluorouridine in combination with recombinant human interleukin 2 on murine colon carcinoma 26. Midoro K, et al. **Jpn J Cancer Res** 1997 Mar;88(3):306-15

Doxifluridine: previous experience and new developments in the treatment of colorectal cancer. Bajetta E, et al. **Tumori** 1997 Jan-Feb;83(1 Suppl):S87-9

TOXICITY

Acyclothymidine alleviates intestinal toxicity of 5'-deoxy-5-fluorouridine without loss of antitumor activity in mice. Hamada A, et al. **Biol Pharm Bull** 1996 Oct; 19(10):1362-6

Embryonic hypertension following exposure to teratogenic doses of 5-fluoro-2'-deoxyuridine. Patel VD, et al. **Biomed Environ Sci** 1996 Dec;9(4):408-17

Comparative immunotoxicity assessment of N4-Trimethoxybenzoyl-5'-deoxy-5- fluorocytidine (Ro 09-1390) and 5'-deoxy-5-fluorouridine (5'-DFUR) in BDF1 mice. Inoue T, et al. **J Toxicol Sci** 1996 Feb; 21(1):29-39

FLUBENISOLONE see **BETAMETHASONE**

FLUBENISOLONVALERATE see **BETAMETHASONE 17-VALERATE**

FLUCLOXACILLIN see **FLOXACILLIN**

FLUCONAZOLE

ADMINISTRATION & DOSAGE

Antifungal prophylaxis for secondary fungal peritonitis in peritoneal dialysis patients. Wadhwa NK, et al. **Adv Perit Dial** 1996;12:189-91

Relationship between fluconazole dosage regimens and the emergence of fluconazole-resistant Candida albicans. Goetz MB. **AIDS** 1996 Mar;10(3):335-6

Fluconazole suspension for oropharyngeal candidiasis unresponsive to tablets [letter] Martins MD, et al. **Ann Intern Med** 1997 Feb 15;126(4):332-3

Effect of fluconazole dose on the extent of fluconazole-triazolam interaction. Varhe A, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):465-70

Single-dose systemic oral fluconazole for the treatment of vaginal candidiasis. Kaplan B, et al. **Int J Gynaecol Obstet** 1997 Jun;57(3):281-6

Successful treatment of fungus ball in a patient with allergic bronchopulmonary aspergillosis: continuous percutaneous instillation of antifungal agents into the cavity. Tsushima K, et al. **Intern Med** 1996 Sep;35(9):736-41

A randomized, double-blind comparison of itraconazole oral solution and fluconazole tablets in the treatment of esophageal candidiasis. Wilcox CM, et al. **J Infect Dis** 1997 Jul;176(1):227-32

Fluconazole therapy of oropharyngeal candidiasis in a patient with multiple endocrine failure does not correlate with Candida albicans susceptibility to fluconazole in vitro. Field EA, et al. **J Med Vet Mycol** 1996 Jun-Jul;34(3):205-8

Treatment of presumed fungal endophthalmitis with oral fluconazole. Zarbin MA, et al. **Ophthalmic Surg Lasers** 1996 Jul;27(7):628-31

[Clinical study on a concomitant therapy with fluconazole and human recombinant granulocyte colony stimulating factor in the treatment of systemic fungal infections with hematological disorders] Kitamura K, et al. **Jpn J Antibiot** 1996 Dec;49(12):1062-72 (Eng. Abstr.) **(Jpn)**

[Conversion of chronic necrotizing pulmonary aspergillosis to invasive pulmonary aspergillosis, and successful treatment with fluconazole] Hirano K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr; 35(4):408-13 (13 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Congenital anomalies and fluconazole [news] Wray CM. **Can Med Assoc J** 1997 Jan 1;156(1):91, 95-6 **(Eng, Fre)**

Fluconazole-induced congenital anomalies in three infants. Pursley TJ, et al. **Clin Infect Dis** 1996 Feb;22(2):336-40

Teratogenicity of fluconazole [letter; comment] Krcmery V Jr, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):841. Comment on: Pediatr Infect Dis J 1992 Dec;11(12):1062-4.

ANALYSIS

Determination of antifungals in rodent diet by supercritical fluid extraction followed by packed column supercritical fluid chromatography with ultraviolet detection. Dean JR, et al. **J AOAC Int** 1997 Jan-Feb;80(1):7-13

A comparison between solid phase extraction and supercritical fluid extraction for the determination of fluconazole from animal feed. Khundker S, et al. **J Pharm Biomed Anal** 1995 Nov;13(12):1441-7

BLOOD

Determination of fluconazole in human plasma by micellar electrokinetic capillary chromatography with detection at 190 nm. von Heeren F, et al. **J Chromatogr A** 1996 Sep 20;745(1-2):165-72

High-performance liquid chromatographic determination of fluconazole in plasma. Cociglio M, et al. **J Chromatogr B Biomed Appl** 1996 Nov 8;686(1):11-7

CHEMISTRY

Spectral characterization of fluconazole. Cyr TD, et al. **J Pharm Biomed Anal** 1996 Jan;14(3):247-55

ECONOMICS

Fluconazole versus oral polyenes in the prophylaxis of immunocompromised patients: a cost-minimization analysis. Wakerly L, et al. **J Hosp Infect** 1996 May; 33(1):35-48

IMMUNOLOGY

Desensitization for fluconazole hypersensitivity. Craig TJ, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):845-6

METABOLISM

Reduced intracellular accumulation of azole antifungal results in resistance in Candida albicans isolate NCPF 3363. Lamb DC, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):189-93

PHARMACOKINETICS

Levels of fluconazole in normal and diseased nails during and after treatment of onychomycoses in toe-nails with fluconazole 150 mg once weekly. Faergemann J, et al. **Acta Derm Venereol** 1996 May;76(3):219-21

Pharmacokinetics of fluconazole in saliva and plasma after administration of an oral suspension and capsules. Koks CH, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1935-7

Pharmacokinetics of oral fluconazole when used for prophylaxis in bone marrow transplant recipients. El-Yazigi A, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):914-7

Variability of plasma fluconazole levels in patients with hematologic malignancy. Ellis ME, et al. **Clin Infect Dis** 1997 Jan;24(1):86-7

Clinical pharmacokinetics of fluconazole in superficial and systemic mycoses. Debruyne D. **Clin Pharmacokinet** 1997 Jul;33(1):52-77

Ocular penetration and pharmacokinetics of topical fluconazole. Yee RW, et al. **Cornea** 1997 Jan;16(1):64-71

Fluconazole concentrations in pulmonary tissue and pericardial fluid. Rieder-Nelissen CM, et al. **Infection** 1997 May-Jun;25(3):192-4

Fluconazole in cats: pharmacokinetics following intravenous and oral administration and penetration into cerebrospinal fluid, aqueous humour and pulmonary epithelial lining fluid. Vaden SL, et al. **J Vet Pharmacol Ther** 1997 Jun; 20(3):181-6

Plasma and tissue concentrations of fluconazole and their correlation to breakpoints. Pittrow L, et al. **Mycoses** 1997 Jan-Feb;40(1-2):25-32 (42 ref.)

A new pharmaceutical concept for the treatment of oropharyngeal and oesophageal candidosis with fluconazole. Wildfeuer A, et al. **Mycoses** 1996 Sep-Oct; 39(9-10):357-60

Fluconazole distribution to the brain: a crossover study in freely-moving rats using in vivo microdialysis. Yang H, et al. **Pharm Res** 1996 Oct;13(10):1570-5

[Plasma and tissue concentrations of fluconazole: discussion of the breakpoint problem] Pittrow L, et al. **Mycoses** 1996; 39 Suppl 2:58-65 (44 ref.) (Eng. Abstr.) **(Ger)**

[Fluconazole: comparison of pharmacokinetics, therapy and in vitro susceptibility of yeasts] Wildfeuer A, et al. **Mycoses** 1996;39 Suppl 2:51-7 (42 ref.) (Eng. Abstr.) **(Ger)**

[A new pharmaceutical concept for the therapy of oropharyngeal and esophageal candidiasis with fluconazole] Wildfeuer A, et al. **Mycoses** 1996;39 Suppl 1:123-6 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

The in vitro effect of fluconazole on the filamentous form of Pityrosporum ovale. Faergemann J, et al. **Acta Derm Venereol** 1996 Nov;76(6):444-6

Oral transmission of Candida albicans between partners in HIV-infected couples could contribute to dissemination of fluconazole-resistant isolates. Dromer F, et al. **AIDS** 1997 Jul 15;11(9):1095-101

In vitro susceptibility of clinical yeast isolates to fluconazole and terconazole. Cooper CR Jr, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1626-31

Multiple efflux mechanisms are involved in Candida albicans fluconazole resistance. Albertson GD, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2835-41

In vitro activities of terbinafine in combination with

fluconazole and itraconazole against isolates of Candida albicans with reduced susceptibility to azoles. Barchiesi F, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1812–4

In vitro studies of two triazole antifungal agents (voriconazole [UK–109,496] and fluconazole) against Candida species. Barry AL, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1948–9

Reversible fluconazole resistance in Candida albicans: a potential in vitro model. Calvet HM, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):535–9

In vitro activity of fluvastatin, a cholesterol–lowering agent, and synergy with flucanazole and itraconazole against Candida species and Cryptococcus neoformans. Chin NX, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):850–2

Pneumocandin L–743,872 enhances the activities of amphotericin B and fluconazole against Cryptococcus neoformans in vitro. Franzot SP, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):331–6

Antifungal pharmacodynamic characteristics of fluconazole and amphotericin B tested against Candida albicans. Klepser ME, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1392–5

In vitro activities of semisynthetic pneumocandin L–733,560 against fluconazole–resistant and –susceptible Candida albicans isolates. Martinez–Suarez JV, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1277–9

Antifungal drug susceptibilities of oral Candida dubliniensis isolates from human immunodeficiency virus (HIV)–infected and non–HIV–infected subjects and generation of stable fluconazole–resistant derivatives in vitro. Moran GP, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):617–23

In vitro activities of voriconazole (UK–109,496) against fluconazole–susceptible and –resistant Candida albicans isolates from oral cavities of patients with human immunodeficiency virus infection. Ruhnke M, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):575–7

Combination therapy with amphotericin B and fluconazole against invasive candidiasis in neutropenic–mouse and infective–endocarditis rabbit models. Sanati H, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1345–8

Candida norvegensis: a fluconazole–resistant species. Sandven P, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1375–6

Isolation of Candida species on media with and without added fluconazole reveals high variability in relative growth susceptibility phenotypes. Schoofs A, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1625–35

Effect of fluconazole on viability of Candida albicans over extended periods of time. Sohnle PG, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2622–5

In vitro activity of a new echinocandin, LY303366, compared with those of amphotericin B and fluconazole against clinical yeast isolates. Uzun O, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1156–7

Comparative resistance of Candida albicans clinical isolates to fluconazole and itraconazole in vitro and in vivo in a murine model. Valentin A, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1342–5

Comparison of D0870, a new triazole antifungal agent, to fluconazole for inhibition of Candida albicans cytochrome P–450 by using in vitro assays. Venkateswarlu K, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1382–6

Fluconazole tolerance in clinical isolates of Cryptococcus neoformans. Venkateswarlu K, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):748–51

In vitro activity of BMS–181184 compared with those of fluconazole and amphotericin B against various candida spp. Wardle HM, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2229–31

The presence of an R467K amino acid substitution and loss of allelic variation correlate with an azole–resistant lanosterol 14alpha demethylase in Candida albicans. White TC. **Antimicrob Agents Chemother** 1997 Jul;41(7):1488–94

The effect of fluconazole and ketoconazole on the metabolism of sulphamethoxazole. Gill HJ, et al. **Br J Clin Pharmacol** 1996 Sep;42(3):347–53

Effect of fluconazole dose on the extent of fluconazole–triazolam interaction. Varhe A, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):465–70

Experimental evidences for a role of subinhibitory concentrations of rilopirox, nystatin and fluconazole on adherence of Candida spp. to vaginal epithelial cells. Braga PC, et al. **Chemotherapy** 1996 Jul–Aug;42(4):259–65

Antifungal and immunoadjuvant properties of fluconazole in mice immunosuppressed with morphine. Di Francesco P, et al. **Chemotherapy** 1997 May–Jun;43(3):198–203

Effects of systemic fluconazole therapy on in vitro adhesion of Candida albicans to buccal epithelial cells and changes of the cell surface proteins of the epithelial cells. Wu S, et al. **Chin Med Sci J** 1996 Mar;11(1):45–8

Patterns of fluconazole susceptibility in isolates from human immunodeficiency virus–infected patients with oropharyngeal candidiasis due to Candida albicans. Laguna F, et al. **Clin Infect Dis** 1997 Feb;24(2):124–30

A fluconazole/amitriptyline drug interaction in three male adults. Newberry DL, et al. **Clin Infect Dis** 1997 Feb; 24(2):270–1

Strain variation and antifungal susceptibility among bloodstream isolates of Candida species from 21 different medical institutions. Pfaller MA, et al. **Clin Infect Dis** 1995 Dec;21(6):1507–9

Development of interpretive breakpoints for antifungal susceptibility testing: conceptual framework and analysis of in vitro–in vivo correlation data for fluconazole, itraconazole, and candida infections. Subcommittee on Antifungal Susceptibility Testing of the National Committee for Clinical Laboratory Standards [see comments] Rex JH, et al. **Clin Infect Dis** 1997 Feb; 24(2):235–47 (123 ref.). Comment in: Clin Infect Dis 1997 Feb;24(2):248–9.

Identification of patients with acute AIDS–associated cryptococcal meningitis who can be effectively treated with fluconazole: the role of antifungal susceptibility testing [see comments] Witt MD, et al. **Clin Infect Dis** 1996 Feb; 22(2):322–8. Comment in: Clin Infect Dis 1996 Feb;22(2):329–30. Comment in: Clin Infect Dis 1996 Dec;23(6):1337–8.

Rapid detection of susceptibility to fluconazole in Candida species by a bioluminescence assay of intracellular ATP. Kretschmar M, et al. **Diagn Microbiol Infect Dis** 1996 Jul; 25(3):117–21

Cross–resistance phenotypes of fluconazole–resistant Candida species: results with 655 clinical isolates with different methods. Stevens DA, et al. **Diagn Microbiol Infect Dis** 1996 Nov–Dec;26(3–4):145–8

In vitro susceptibility of 115 isolates of Candida to amphotericin B, fluconazole and itraconazole. Mallié M, et al. **Drugs Exp Clin Res** 1996;22(6):301–7

Evaluation of the E test for fluconazole susceptibility testing of Candida albicans isolates from oropharyngeal candidiasis. Dannaoui E, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):228–32

Variable antifungal susceptibility of wild–type Candida albicans phenotypes from neutropenic hosts. Velegraki A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov; 15(11):854–60

Effect of route of administration of fluconazole on the interaction between fluconazole and midazolam. Ahonen J, et al. **Eur J Clin Pharmacol** 1997;51(5):415–9

Resistance to fluconazole and cross–resistance to amphotericin B in Candida albicans from AIDS patients caused by defective sterol delta5,6–desaturation. Kelly SL, et al. **FEBS Lett** 1997 Jan 2;400(1):80–2

Reduced intracellular accumulation of azole antifungal results in resistance in Candida albicans isolate NCPF 3363. Lamb DC, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):189–93

Molecular analysis of cyp51 from fluconazole–resistant Candida albicans strains. Löffler J, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):263–8

In vivo effects of fluconazole on lymphocyte subpopulations of the thymus and spleen in mice: flow cytometry analysis. Liu J, et al. **Int J Immunopharmacol** 1996 Aug–Sep; 18(8–9):449–57

Lack of effect of fluconazole on the pharmacokinetics of rifampicin in AIDS patients. Jaruratanasirikul S, et al. **J Antimicrob Chemother** 1996 Nov;38(5):877–80

ZD0870 treatment of murine candidiasis caused by fluconazole resistant isolates of Candida albicans. Najvar LK, et al. **J Antimicrob Chemother** 1996 Oct;38(4):671–7

In–vitro activity of D0870, a new triazole antifungal drug, in comparison with fluconazole and itraconazole against Aspergillus fumigatus and Candida krusei. Venkateswarlu K, et al. **J Antimicrob Chemother** 1997 Jun;39(6):731–6

Characterization of Saccharomyces cerevisiae CYP61, sterol delta22–desaturase, and inhibition by azole antifungal agents. Kelly SL, et al. **J Biol Chem** 1997 Apr 11; 272(15):9986–8

The mutation T315A in Candida albicans sterol 14alpha–demethylase causes reduced enzyme activity and fluconazole resistance through reduced affinity. Lamb DC, et al. **J Biol Chem** 1997 Feb 28;272(9):5682–8

Interaction of Candida albicans, macrophages and fluconazole: in vitro and ex vivo observations. Tullio V, et al. **J Chemother** 1996 Dec;8(6):438–44

Fluconazole disk diffusion procedure for determining susceptibility of Candida species. Barry AL, et al. **J Clin Microbiol** 1996 Sep;34(9):2154–7

Emergence of fluconazole–resistant strains of Blastoschizomyces capitatus causing nosocomial infections in cancer patients. D'Antonio D, et al. **J Clin Microbiol** 1996 Mar;34(3):753–5

Species differentiation by internally transcribed spacer PCR and HhaI digestion of fluconazole–resistant Candida krusei, Candida inconspicua, and Candida norvegensis strains. Nho S, et al. **J Clin Microbiol** 1997 Apr;35(4):1036–9

Simple method for detecting fluconazole–resistant yeasts with chromogenic agar. Patterson TF, et al. **J Clin Microbiol** 1996 Jul;34(7):1794–7

Comparative evaluation of macrodilution and chromogenic agar screening for determining fluconazole susceptibility of Candida albicans. Patterson TF, et al. **J Clin Microbiol** 1996 Dec;34(12):3237–9

Rapid flow cytometric susceptibility testing of Candida albicans. Ramani R, et al. **J Clin Microbiol** 1997 Sep; 35(9):2320–4

Variations in fluconazole susceptibility and DNA subtyping of multiple Candida albicans colonies from patients with AIDS and oral candidiasis suffering one or more episodes of infection. Redding SW, et al. **J Clin Microbiol** 1997 Jul; 35(7):1761–5

Fluconazole and amphotericin B antifungal susceptibility testing by National Committee for Clinical Laboratory Standards broth macrodilution method compared with E–test and semiautomated broth microdilution test [letter; comment] Rodríguez–Tudela JL, et al. **J Clin Microbiol** 1997 Jan;35(1):336–7. Comment on: J Clin Microbiol 1996 Apr;34(4):842–7.

Comparative evaluation of three antifungal susceptibility test methods for Candida albicans isolates and correlation with response to fluconazole therapy. Ruhnke M, et al. **J Clin Microbiol** 1996 Dec;34(12):3208–11

Role of extended culture time on synergy of fluconazole and human monocyte–derived macrophages in clearing Candida albicans. Gujral S, et al. **J Infect Dis** 1996 Oct; 174(4):888–90

In vitro growth–inhibitory activity of pneumocandins L–733,560 and L–743,872 against putatively amphotericin B– and fluconazole–resistant Candida isolates: influence of assay conditions. Nelson PW, et al. **J Med Vet Mycol** 1997 Jul–Aug;35(4):285–7

Resistance to fluconazole and amphotericin in Candida albicans from AIDS patients [letter] Kelly SL, et al. **Lancet** 1996 Nov 30;348(9040):1523–4

An ATP bioluminescence assay applicable to rapid fluconazole susceptibility testing of dermatophytes. Yoshida T, et al. **Microbiol Immunol** 1997;41(5):377–86

In vitro activity of fluconazole on Candida albicans. Abecia LC, et al. **Microbiologia** 1996 Dec;12(4):613–20

A disc plate assay for characterization of the effect of interaction between polyenes and azoles on growth of Candida albicans CA12. Cao B, et al. **Microbios** 1996; 87(352):161–7

Synergy of human neutrophils with fluconazole in killing Candida species. Brummer E, et al. **Mycopathologia** 1996; 134(3):115–20

Effect of nordihydroguaretic acid and fluconazole on the LTC4/PGE2 ratio in the kidney of mice damaged by Candida albicans. Kuştimur S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):281–3

Postantifungal effect and effects of low concentrations of amphotericin B and fluconazole on previously treated Candida albicans. Mínguez F, et al. **Scand J Infect Dis** 1996; 28(5):503–6

The cardiopulmonary, eicosanoid, and tissue microanatomic effects of fluconazole during graded bacteremia. Salartash K, et al. **Shock** 1996 Sep;6(3):206–12

Ketoconazole and fluconazole inhibition of the metabolism of cyclosporin A by human liver in vitro. Omar G, et al. **Ther Drug Monit** 1997 Aug;19(4):436–45

Tacrolimus (FK506) malabsorption: management with fluconazole coadministration. Dhawan A, et al. **Transpl Int** 1997;10(4):331–4

[Methods for the determination of the sensitivity of Candida strains to fluconazole: focus of a micromethod and correlation with 2 other techniques] Goutaland C, et al. **Pathol Biol (Paris)** 1996 Oct;44(8):724–8 (Eng. Abstr.) **(Fre)**

[Fluconazole: advances in the testing of sensitivity of yeasts. 28th Session of the Clinical Mycology Study Group of the German–Speaking Society of Mycology. Illertissen, Germany, 26–27 April 1996] **Mycoses** 1996;39 Suppl 2:1–65 **(Ger)**

[Fluconazole and itraconazole susceptibility testing with clinical yeast isolates and algae of the genus Prototheca by means of the Etest] Blaschke–Hellmessen R. **Mycoses** 1996;39 Suppl 2:39–43 (Eng. Abstr.) **(Ger)**

[Itraconazole suspension in the treatment of HIV–infected patients with fluconazole–resistant oropharyngeal candidiasis and esophagitis] Eichel M, et al. **Mycoses** 1996; 39 Suppl 1:102–6 (Eng. Abstr.) **(Ger)**

[Comparison of three antifungal susceptibility testing methods for the in vitro testing of Candida isolates from patients with HIV infection] Ruhnke M, et al. **Mycoses** 1996;39 Suppl 2:47–50 (Eng. Abstr.) **(Ger)**

[Susceptibility testing of yeasts against fluconazole: proposal for a standardized agar diffusion method with 25 microgram fluconazole paper discs] Schmalreck AF, et al. **Mycoses** 1996;39 Suppl 2:27–30 (Eng. Abstr.) **(Ger)**

[Susceptibility testing of yeasts against fluconazole: comparison of the Etest method with microdilution and agar dilution] Schmalreck AF, et al. **Mycoses** 1996;39 Suppl 2:31–8 (Eng. Abstr.) **(Ger)**

[Criteria for a microdilution susceptibility testing method of fluconazole: proposal of a standardized testing method for yeasts] Schmalreck AF, et al. **Mycoses** 1996;39 Suppl 2:12–6 (Eng. Abstr.) **(Ger)**

[Susceptibility testing of fluconazole: evaluation of a multicenter study of the working group "Clinical Mycology" of the German Speaking Mycological Society] Schmalreck AF. **Mycoses** 1996;39 Suppl 2:1–11 (Eng. Abstr.) **(Ger)**

[In vitro susceptibility testing of Candida species against fluconazole using the microdilution test with Alamar Blue] Schröder G, et al. **Mycoses** 1996;39 Suppl 2:17–21 (Eng. Abstr.) **(Ger)**

[Controversies in the standardization of susceptibility testing on yeasts to azole antimycotics] Tintelnot K, et al. **Mycoses** 1996;39 Suppl 2:22–6 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Itraconazole cyclodextrin solution: the role of in vitro susceptibility testing in predicting successful treatment of HIV–related fluconazole–resistant and fluconazole–susceptible oral candidosis. Cartledge JD, et

al. **AIDS** 1997 Feb;11(2):163–8

Oropharyngeal yeast flora and fluconazole resistance in HIV–infected patients receiving long–term continuous versus intermittent fluconazole therapy. Heald AE, et al. **AIDS** 1996 Mar;10(3):263–8

Itraconazole cyclodextrin solution for fluconazole–refractory oropharyngeal candidiasis in AIDS: correlation of clinical response with in vitro susceptibility. Phillips P, et al. **AIDS** 1996 Oct;10(12):1369–76

Treatment of histoplasmosis with fluconazole in patients with acquired immunodeficiency syndrome. National Institute of Allergy and Infectious Diseases Acquired Immunodeficiency Syndrome Clinical Trials Group and Mycoses Study Group. Wheat J, et al. **Am J Med** 1997 Sep;103(3):223–32

Prospective assessment of pregnancy outcomes after first–trimester exposure to fluconazole. Mastroiacovo P, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1645–50

Weekly fluconazole for the prevention of mucosal candidiasis in women with HIV infection. A randomized, double–blind, placebo–controlled trial. Terry Beirn Community Programs for Clinical Research on AIDS. Schuman P, et al. **Ann Intern Med** 1997 May 1; 126(9):689–96

Fluconazole treatment for vulvovaginal candidiasis during pregnancy [letter] Campomori A, et al. **Ann Pharmacother** 1997 Jan;31(1):118–9

Fluconazole and amphotericin B for cryptococcal meningitis. Clark AB, et al. **Ann Pharmacother** 1996 Dec; 30(12):1408–10

Variation in fluconazole efficacy for Candida albicans strains sequentially isolated from oral cavities of patients with AIDS in an experimental murine candidiasis model. Barchiesi F, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1317–20

Comparison of fluconazole and amphotericin B in prophylaxis of experimental Candida endocarditis caused by non–C. albicans strains. Bayer AS, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):494–6

Comparison of fluconazole and amphotericin B for treatment of experimental Candida albicans endocarditis in rabbits. Chemlal K, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):263–6

Efficacies of two novel azole derivatives each containing a morpholine ring, UR–9746 and UR–9751, against systemic murine coccidioidomycosis. Clemons KV, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):200–3

Efficacy of D0870 treatment of experimental Candida vaginitis. Fidel PL Jr, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1455–9

Electronic compliance assessment of antifungal prophylaxis for human immunodeficiency virus–infected women. Geletko SM, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1338–41

Response to fluconazole by 23 patients with human immunodeficiency virus infection and oral candidiasis: pharmacological and mycological factors. Lacassin F, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1961–3

Effect of fluconazole on fungicidal activity of flucytosine in murine cryptococcal meningitis. Larsen RA, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2178–82

Effect of granulocyte colony–stimulating factor on the candidacidal activity of polymorphonuclear neutrophils and their collaboration with fluconazole. Natarajan U, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1575–8

Combination therapy with fluconazole and flucytosine in the murine model of cryptococcal meningitis. Nguyen MH, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1120–3

Isolation and characterization of fluconazole– and amphotericin B–resistant Candida albicans from blood of two patients with leukemia. Nolte FS, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):196–9

Hypothesis on the mechanism of resistance to fluconazole in Histoplasma capsulatum. Wheat J, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):410–4

Fluconazole as prophylaxis against fungal infection in patients with advanced HIV infection. Manfredi R, et al. **Arch Intern Med** 1997 Jan 13;157(1):64–9

Candida parapsilopsis fungemias in bone marrow transplant recipients: implications for azole prophylactic therapy [letter; comment] López–Jiménez J, et al. **Blood** 1997 May 1;89(9):3491–2. Comment on: Blood 1996 Jan 15;87(2):838–9.

A multicentre (double–blind) comparative study to assess the safety and efficacy of fluconazole and griseofulvin in the treatment of tinea corporis and tinea cruris. Faergemann J, et al. **Br J Dermatol** 1997 Apr;136(4):575–7

Successful treatment with fluconazole of protothecosis developing at the site of an intralesional corticosteroid injection. Kim ST, et al. **Br J Dermatol** 1996 Nov; 135(5):803–6

Fluconazole versus amphotericin B in the treatment of esophageal candidiasis in cancer patients. Lake DE, et al. **Chemotherapy** 1996 Jul–Aug;42(4):308–14

Fungemia in patients with hematologic malignancies: therapeutic effects of concomitant administration of fluconazole and granulocyte–colony–stimulating factor. Niitsu N, et al. **Chemotherapy** 1996 May–Jun;42(3):215–19

Fluconazole vs itraconazole–flucytosine association in the treatment of esophageal candidiasis in AIDS patients. A double–blind, multicenter placebo–controlled study. The Candida Esophagitis Multicenter Italian Study (CEMIS) Group. Barbaro G, et al. **Chest** 1996 Dec;110(6):1507–14

Successful treatment of subcutaneous mycoses with fluconazole: a report of two cases. Yang SP, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Dec;56(6):432–5

The role of azole antifungal agents for systemic antifungal therapy. Lee YP, et al. **Cleve Clin J Med** 1997 Feb; 64(2):99–106 (67 ref.)

Management of invasive candidal infections: results of a prospective, randomized, multicenter study of fluconazole versus amphotericin B and review of the literature. Anaissie EJ, et al. **Clin Infect Dis** 1996 Nov;23(5):964–72 (31 ref.)

Possible development of resistance to fluconazole during suppressive therapy for AIDS–associated cryptococcal meningitis [letter; comment] Armengou A, et al. **Clin Infect Dis** 1996 Dec;23(6):1337–8. Comment on: Clin Infect Dis 1996 Feb;22(2):322–8.

Candida inconspicua, a fluconazole–resistant pathogen in patients infected with human immunodeficiency virus. Baily GG, et al. **Clin Infect Dis** 1997 Jul;25(1):161–3

Fluconazole monotherapy for candidal meningitis in a premature infant. Gürses N, et al. **Clin Infect Dis** 1996 Sep; 23(3):645–6

Oral fluconazole compared with bladder irrigation with amphotericin B for treatment of fungal urinary tract infections in elderly patients [see comments] Jacobs LG, et al. **Clin Infect Dis** 1996 Jan;22(1):30–5. Comment in: Clin Infect Dis 1996 Aug;23(2):416.

Treatment of lymphocutaneous and visceral sporotrichosis with fluconazole. Kauffman CA, et al. **Clin Infect Dis** 1996 Jan;22(1):46–50

Resistance to fluconazole and amphotericin B in a patient with AIDS who was being treated for candidal esophagitis. Le TP, et al. **Clin Infect Dis** 1996 Sep;23(3):649–50

Fluconazole therapy for histoplasmosis. The National Institute of Allergy and Infectious Diseases Mycoses Study Group. McKinsey DS, et al. **Clin Infect Dis** 1996 Nov; 23(5):996–1001

Infection due to fluconazole–resistant Candida in patients with AIDS: prevalence and microbiology. Maenza JR, et al. **Clin Infect Dis** 1997 Jan;24(1):28–34

Oropharyngeal candidiasis in patients with AIDS: randomized comparison of fluconazole versus nystatin oral suspensions. Pons V, et al. **Clin Infect Dis** 1997 Jun; 24(6):1204–7

Low–dose fluconazole as primary prophylaxis for cryptococcal infection in AIDS patients with CD4 cell counts of < or = 100/mm3: demonstration of efficacy in a positive, multicenter trial. Singh N, et al. **Clin Infect Dis** 1996 Dec;23(6):1282–6

Fluconazole–resistant Candida parapsilosis fungemia in a patient with AIDS. Tumbarello M, et al. **Clin Infect Dis** 1996 Jan;22(1):179–80

The contribution of fluconazole to the changing epidemiology of invasive candidal infections [editorial; comment] White MH. **Clin Infect Dis** 1997 Jun; 24(6):1129–30. Comment on: Clin Infect Dis 1997 Jun;24(6):1122–6.

Topical fluconazole therapy of Candida keratitis. Panda A, et al. **Cornea** 1996 Jul;15(4):373–5

Oral fluconazole in the treatment of pulmonary cryptococcosis in non–AIDS patients. Yew WW, et al. **Drugs Exp Clin Res** 1996;22(1):25–8

Fluconazole versus amphotericin B as empirical antifungal therapy of unexplained fever in granulocytopenic cancer patients: a pragmatic, multicentre, prospective and randomised clinical trial. Viscoli C, et al. **Eur J Cancer** 1996 May;32A(5):814–20

Selection of Candida glabrata strains with reduced susceptibility to azoles in four liver transplant patients with invasive candidiasis. Fortún J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):314–8

A case of Alternaria keratitis treated with fluconazole [letter] Koç AN, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr; 16(4):322–3

Multicenter randomized trial of fluconazole versus amphotericin B for treatment of candidemia in non–neutropenic patients. Canadian Candidemia Study Group. Phillips P, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):337–45

Large–scale multicentre study of fluconazole in the treatment of hospitalised patients with fungal infections. Multicentre European Study Group. Troke PF. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):287–95

Fluconazole treatment of candidal infections caused by non–albicans Candida species. van 't Wout JW. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):238–42

Fluconazole monotherapy for cryptococcosis in non–AIDS patients. Yamaguchi H, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):787–92

Fluconazole versus itraconazole for candida esophagitis in acquired immunodeficiency syndrome. Candida Esophagitis. Barbaro G, et al. **Gastroenterology** 1996 Nov; 111(5):1169–77

Fluconazole compared with endoscopy for human immunodeficiency virus–infected patients with esophageal symptoms. Wilcox CM, et al. **Gastroenterology** 1996 Jun; 110(6):1803–9

Fluconazole in the management of neonatal systemic candidiasis. Narang A, et al. **Indian Pediatr** 1996 Oct; 33(10):823–6

A randomized study comparing fluconazole with amphotericin B/5–flucytosine for the treatment of systemic Candida infections in intensive care patients. Abele–Horn M, et al. **Infection** 1996 Nov–Dec;24(6):426–32

Nosocomial Cryptococcus laurentii fungemia in a bone marrow transplant patient after prophylaxis with ketoconazole successfully treated with oral fluconazole [letter] Krcméry V Jr, et al. **Infection** 1997 Mar–Apr; 25(2):130

Candida tropicalis arthritis in a patient with acute myeloid leukemia successfully treated with fluconazole: case report and review of the literature. Weers–Pothoff G, et al. **Infection** 1997 Mar–Apr;25(2):109–11 (25 ref.)

Fluconazole in Candida albicans sepsis during pregnancy: case report and review of the literature. Wiesinger EC, et al. **Infection** 1996 May–Jun;24(3):263–6

Tinea versicolor with generalized anhidrosis [letter] Bhargava P, et al. **Int J Dermatol** 1996 Sep;35(9):683

Fluconazole in the treatment of severe onychomycosis. Montero–Gei F, et al. **Int J Dermatol** 1996 Aug;35(8):587–8

Candidemia in non–neutropenic critically ill patients: analysis of prognostic factors and assessment of systemic antifungal therapy. Study Group of Fungal Infection in the ICU. Nolla–Salas J, et al. **Intensive Care Med** 1997 Jan; 23(1):23–30

Fluconazole for the treatment of tinea capitis in children. Solomon BA, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 1):274–5

The in–vivo activity of an antifungal antibiotic, benanomicin A, in comparison with amphotericin B and fluconazole. Ohtsuka K, et al. **J Antimicrob Chemother** 1997 Jan; 39(1):71–7

Fluconazole plus allopurinol in treatment of visceral leishmaniasis [letter] Torrús D, et al. **J Antimicrob Chemother** 1996 May;37(5):1042–3

Susceptibility testing of fungi and correlation with clinical outcome. Ghannoum MA. **J Chemother** 1997 May;9 Suppl 1:19–24 (49 ref.)

Fluconazole versus itraconazole in therapy of oropharyngeal candidiasis in cancer patients: a prospective comparative randomized trial. Studena V, et al. **J Chemother** 1995 Nov; 7 Suppl 4:204–5

Fluconazole therapy for postoperative Candida infections and in coccidioidomycosis. Thadepalli H, et al. **J Chemother** 1995 Nov;7 Suppl 4:193–5

Fatal Candida tropicalis fungaemia in a leukaemic patient receiving fluconazole prophylaxis. Barnes AJ, et al. **J Infect** 1996 Jul;33(1):43–5

Experience with infection by Scedosporium prolificans including apparent cure with fluconazole therapy. Pickles RW, et al. **J Infect** 1996 Nov;33(3):193–7

Detection and significance of fluconazole resistance in oropharyngeal candidiasis in human immunodeficiency virus–infected patients. Revankar SG, et al. **J Infect Dis** 1996 Oct;174(4):821–7

Fluconazole treatment of neonates and infants with severe fungal infections. Gürpinar AN, et al. **J Int Med Res** 1997 Jul–Aug;25(4):214–8

Nursery outbreak of neonatal fungal arthritis treated with fluconazole. Merchant RH, et al. **J Trop Pediatr** 1997 Apr; 43(2):106–8

Long–term observation of a case of cutaneous blastomycosis in Poland treated with fluconazole. Chodorowska G, et al. **Mycoses** 1996 Jul–Aug;39(7–8):283–7

Fluconazole in the prophylaxis of fungal infection after bone marrow transplantation. Ehninger G, et al. **Mycoses** 1996 Jul–Aug;39(7–8):259–63

A new pharmaceutical concept for the treatment of oropharyngeal and oesophageal candidosis with fluconazole. Wildfeuer A, et al. **Mycoses** 1996 Sep–Oct; 39(9–10):357–60

Vitrectomy and systemic fluconazole for treatment of endogenous fungal endophthalmitis. Christmas NJ, et al. **Ophthalmic Surg Lasers** 1996 Dec;27(12):1012–8

Successful treatment of onychomycosis with fluconazole in two patients with hyperimmunoglobulin E syndrome. Aihara Y, et al. **Pediatr Dermatol** 1996 Nov–Dec; 13(6):493–5

Successful therapy of Candida albicans arthritis with a sequential intravenous amphotericin B and oral fluconazole regimen. Barson WJ, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1119–22 (42 ref.)

Fluconazole vs. amphotericin B for the treatment of neonatal fungal septicemia: a prospective randomized trial. Driessen M, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1107–12

Prospective study of fluconazole therapy in systemic neonatal fungal infection. Wainer S, et al. **Pediatr Infect Dis J** 1997 Aug;16(8):763–7

Fluconazole for treatment of fungal infections of the urinary tract in children. Zia–ul–Miraj M, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):414–6

The fluconazole era: management of hematogenously disseminated candidiasis in the nonneutropenic patient. Kramer KM, et al. **Pharmacotherapy** 1997 May–Jun; 17(3):538–48 (44 ref.)

Cryptococcal meningitis in patients with the acquired immunodeficiency syndrome. Zeind CS, et al. **Pharmacotherapy** 1996 Jul–Aug;16(4):547–61 (127 ref.)

[A multiple center clinical trial on fluconazole for deep–seated fungal infections] Liang D, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):823–6 (Eng. Abstr.) **(Chi)**

[Clinical fluconazole and itraconazole resistance of oro–gastrointestinal candidiasis in a patient with AIDS]

FLUCONAZOLE

Tebbe B, et al. **Hautarzt** 1996 Feb;47(2):136–9 (Eng. Abstr.) **(Ger)**

[Focusing on therapy of systemic mycoses] **Internist (Berl)** 1995 Dec;36(12 Suppl):1–12 **(Ger)**

[Osteomyelitis from Cryptococcus neoformans] Hummel H, et al. **Mycoses** 1996;39 Suppl 1:94–6 (Eng. Abstr.) **(Ger)**

[Prerequisites for effective therapy of chronic recurrent vaginal candidiasis] Kunzelmann V, et al. **Mycoses** 1996; 39 Suppl 1:65–72 (Eng. Abstr.) **(Ger)**

[Plasma and tissue concentrations of fluconazole: discussion of the breakpoint problem] Pittrow L, et al. **Mycoses** 1996; 39 Suppl 2:58–65 (44 ref.) (Eng. Abstr.) **(Ger)**

[Fluconazole: comparison of pharmacokinetics, therapy and in vitro susceptibility of yeasts] Wildfeuer A, et al. **Mycoses** 1996;39 Suppl 2:51–7 (42 ref.) (Eng. Abstr.) **(Ger)**

[A new pharmaceutical concept for the therapy of oropharyngeal and esophageal candidiasis with fluconazole] Wildfeuer A, et al. **Mycoses** 1996;39 Suppl 1:123–6 (Eng. Abstr.) **(Ger)**

[A clinical evaluation of fluconazole in deep seated fungal infections associated with hematological disorders] Murakami S, et al. **Jpn J Antibiot** 1996 Jan;49(1):95–105 (Eng. Abstr.) **(Jpn)**

[Use of Diflucan in the treatment of chronic and recurrent candidosis with involvement of the esophagus] Barantsevich EP, et al. **Klin Med (Mosk)** 1996;74(5):55–7 (Eng. Abstr.) **(Rus)**

[Systemic mycoses: therapy with a new antifungal drug diflucan] Barantsevich EP. **Klin Med (Mosk)** 1996; 74(4):52–4 (Eng. Abstr.) **(Rus)**

[Obstructive renal insufficiency due to Candida. Fluconazole as a valid alternative to classical therapy] Díez-Delgado Rubio J, et al. **An Esp Pediatr** 1997 Mar;46(3):296–8 **(Spa)**

[Systemic candidiasis in heroin addicts: therapeutic considerations (letter; comment)] Márquez de Prado Urquia M, et al. **An Med Interna** 1997 Mar;14(3):155–6. Comment on: An Med Interna 1994 Nov;11(11):537–40. **(Spa)**

[Curative treatment with fluconazole in 5 cases of invasive candidiasis] Martínez-Marcos FJ, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):541–4 (Eng. Abstr.) **(Spa)**

[Fluconazole (Diflucan): its clinical spectrum and development] Espejo Martínez J, et al. **Rev Clin Esp** 1997 Apr;197 Suppl 1:86–93 (34 ref.) **(Spa)**

[Oral amphotericin B inefficacy in the treatment of fluconazole++ resistant oropharyngeal candidiasis in HIV-positive patients (letter)] Laguna F, et al. **Rev Clin Esp** 1996 Dec;196(12):878–9 **(Spa)**

[Emergency of fluconazole-resistant infections by Candida krusei and Candida glabrata in neutropenic patients (letter)] Piemonte P, et al. **Rev Med Chil** 1996 Sep;124(9):1149 **(Spa)**

[Fluconazole in treatment of urinary candidiasis. Experience with 24 patients] Thompson L, et al. **Rev Med Chil** 1995 Dec;123(12):1505–9 (Eng. Abstr.) **(Spa)**

TOXICITY

Inhibition of mitochondrial function in isolated rate liver mitochondria by azole antifungals. Rodriquez RJ, et al. **J Biochem Toxicol** 1996;11(3):127–31

FLUCYTOSINE

ADMINISTRATION & DOSAGE

Efficacy of continuous flucytosine infusion against Candida lusitaniae in experimental hematogenous murine candidiasis. Karyotakis NC, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2907–8

Fluconazole vs itraconazole-flucytosine association in the treatment of esophageal candidiasis in AIDS patients. A double-blind, multicenter placebo-controlled study. The Candida Esophagitis Multicenter Italian Study (CEMIS) Group. Barbaro G, et al. **Chest** 1996 Dec;110(6):1507–14

Comparison of amphotericin B, flucytosine and itraconazole with amphotericin B and flucytosine in the treatment of cryptococcal meningitis in AIDS. Chotmongkol V, et al. **J Med Assoc Thai** 1997 Jul;80(7):416–25

ADVERSE EFFECTS

Suspected drug eruption in seven dogs during administration of flucytosine. Malik R, et al. **Aust Vet J** 1996 Oct; 74(4):285–8

Acute cerebellopathy as a probable toxic effect of flucytosine. Cubo Delgado E, et al. **Eur J Clin Pharmacol** 1997; 51(6):505–6

ANALYSIS

Stability of acetazolamide, allopurinol, azathioprine, clonazepam, and flucytosine in extemporaneously compounded oral liquids. Allen LV Jr, et al. **Am J Health Syst Pharm** 1996 Aug 15;53(16):1944–9

PHARMACOLOGY

Selective augmentation of radiation effects by 5-fluorocytosine on murine B16(F10) melanoma cells transfected with cytosine deaminase gene. Szary J, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):269–72

In vivo replication-deficient adenovirus vector-mediated transduction of the cytosine deaminase gene sensitizes glioma cells to 5-fluorocytosine. Dong Y, et al. **Hum Gene Ther** 1996 Apr 10;7(6):713–20

Regional delivery of an adenovirus vector containing the Escherichia coli cytosine deaminase gene to provide local activation of 5-fluorocytosine to suppress the growth of colon carcinoma metastatic to liver. Ohwada A, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1567–76

Transduction of cytosine deaminase gene makes rat glioma cells highly sensitive to 5-fluorocytosine. Ge K, et al. **Int J Cancer** 1997 May 16;71(4):675–9

Combination of 5-flucytosine and capsule-binding monoclonal antibody in the treatment of murine Cryptococcus neoformans infections and in vitro. Feldmesser M, et al. **J Antimicrob Chemother** 1996 Mar; 37(3):617–22

Isolates of Cryptococcus neoformans serotype A or D from cerebrospinal fluid resistant to 5-fluorocytosine. Arsic V, et al. **J Chemother** 1995 Nov;7 Suppl 4:90–2

Susceptibility of Candida albicans pretreated with ketoconazole and 5-fluorocytosine to fungicidal activity of leukocytes and serum. Chiu ML, et al. **J Chemother** 1995 Nov;7 Suppl 4:21–2

Influence of human serum on the postantifungal effect induced by therapeutic concentrations of ketoconazole and 5-fluorocytosine. Lima JE, et al. **J Chemother** 1995 Nov; 7 Suppl 4:38–9

[Antifungal resistance in opportunistic pathogenic fungi (I). Polyenes and fluorocytosine] Martínez-Suárez JV, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):384–9 (43 ref.) **(Spa)**

THERAPEUTIC USE

Effect of fluconazole on fungicidal activity of flucytosine in murine cryptococcal meningitis. Larsen RA, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2178–82

Combination therapy with fluconazole and flucytosine in the murine model of cryptococcal meningitis. Nguyen MH, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1120–3

Phase I study of direct administration of a replication deficient adenovirus vector containing the E. coli cytosine deaminase gene to metastatic colon carcinoma of the liver in association with the oral administration of the pro-drug 5-fluorocytosine. Crystal RG, et al. **Hum Gene Ther** 1997 May 20;8(8):985–1001

A randomized study comparing fluconazole with amphotericin B/5-flucytosine for the treatment of systemic Candida infections in intensive care patients. Abele-Horn M, et al. **Infection** 1996 Nov-Dec;24(6):426–32

Treatment of cryptococcal meningitis associated with the acquired immunodeficiency syndrome. National Institute of Allergy and Infectious Diseases Mycoses Study Group and AIDS Clinical Trials Group. van der Horst CM, et al. **N Engl J Med** 1997 Jul 3;337(1):15–21

Nosocomial cerebral aspergillosis: a report of 3 cases. Darras-Joly C, et al. **Scand J Infect Dis** 1996;28(3):317–9 (28 ref.)

TOXICITY

Anaerobic bacteria as a delivery system for cancer gene therapy: in vitro activation of 5-fluorocytosine by genetically engineered clostridia [published erratum appears in Gene Ther 1996 Aug;3(8):741] Fox ME, et al. **Gene Ther** 1996 Feb;3(2):173–8

FLUDROCORTISONE

PHARMACOLOGY

Effect of fludrocortisone and spironolactone on sodium and potassium losses in secretory diarrhea. Wenzl HH, et al. **Dig Dis Sci** 1997 Jan;42(1):119–28

Evidence that high dose cortisol-induced Na+ retention in man is not mediated by the mineralocorticoid receptor. Whitworth JA, et al. **J Endocrinol Invest** 1995 Jul-Aug; 18(7):586–91

THERAPEUTIC USE

Fludrocortisone in the treatment of subarachnoid hemorrhage-induced hyponatremia. Woo MH, et al. **Ann Pharmacother** 1997 May;31(5):637–9

Circulating kallikreins in normotensive and hypertensive humans: effects of mineralocorticoid administration. Ohman KP. **Blood Press** 1997 Jul;6(4):214–22

The role of plasma renin activity in evaluating the adequacy of mineralocorticoid replacement in primary adrenal insufficiency. Flad TM, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):529–34

Fludrocortisone in the treatment of hypotensive disorders in the elderly [published erratum appears in Heart 1997 Mar;77(3):294] Hussain RM, et al. **Heart** 1996 Dec; 76(6):507–9

Treatment and long-term follow-up of 205 dogs with hypoadrenocorticism. Kintzer PP, et al. **J Vet Intern Med** 1997 Mar-Apr;11(2):43–9

FLUFENAMIC ACID

ADMINISTRATION & DOSAGE

Sustained release of flufenamic acid from a drug-triacetyl-beta-cyclodextrin complex. Nakanishi K, et al. **Biol Pharm Bull** 1997 Jan;20(1):66–70

BLOOD

High-performance liquid chromatography of flufenamic acid in rat plasma. Cerretani D, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):365–8

PHARMACOLOGY

Inhibition by fenamates of calcium influx and proliferation of human lymphocytes. Kankaanranta H, et al. **Br J Pharmacol** 1996 Oct;119(3):487–94

Mechanism of action of the non-steroidal anti-inflammatory drug flufenamate on [Ca2+]i and Ca(2+)-activated currents in neurons. Lee RJ, et al. **Cell Calcium** 1996 May; 19(5):431–8

Investigations on the mechanism of action of the antiproliferant and ion channel antagonist flufenamic acid. Weiser T, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar;353(4):452–60

FLUFENAZIN see **FLUPHENAZINE**

FLUGESTONE see **FLUROGESTONE ACETATE**

FLUID BALANCE see **WATER-ELECTROLYTE BALANCE**

FLUID SHIFTS

see related

LOWER BODY NEGATIVE PRESSURE

Postural hemodilution in nephrotic edema: a cause of spurious hemorrhage after renal biopsy. Clive DM. **Am J Kidney Dis** 1997 Apr;29(4):627–30

Fluid shifts across human dentine in vitro in response to hydrodynamic stimuli. Pashley DH, et al. **Arch Oral Biol** 1996 Nov;41(11):1065–72

Effects of head down tilt on hemodynamics, fluid volumes, and plasma Na-K pump inhibitor in rats. Pamnani MB, et al. **Aviat Space Environ Med** 1996 Oct;67(10):928–34

Plasma marinobufagenin-like and ouabain-like immunoreactivity during saline volume expansion in anesthetized dogs. Bagrov AY, et al. **Cardiovasc Res** 1996 Feb;31(2):296–305

Changes in intrathoracic fluid volumes during weaning from mechanical ventilation in patients after coronary artery bypass grafting. Schmidt H, et al. **J Crit Care** 1997 Mar; 12(1):22–7

A study on regulating factors of plasma refilling during hemodialysis. Iimura O, et al. **Nephron** 1996;74(1):19–25

PHYSIOLOGY

Hyperreactio luteinalis differentiated from severe ovarian hyperstimulation syndrome in a spontaneously conceived pregnancy. Foulk RA, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1300–2; discussion 1302–4

Effects of hypovolemia and posture on responses to the Valsalva maneuver. Luster EA, et al. **Aviat Space Environ Med** 1996 Apr;67(4):308–13

Effects of thoracic volume expansion on cardiorenal function in the conscious rat. McCombs GB, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1086–91

Monitoring acute whole-body fluid redistribution by changes in leg and neck volumes. Watenpaugh DE, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):858–62

A poroelastic finite element formulation including transport and swelling in soft tissue structure [letter; comment] Lai WM, et al. **J Biomech Eng** 1997 Feb;119(1):130–1. Comment on: J Biomech Eng 1996 Feb;118(1):1–9.

In vivo observations of hydraulic stiffening in the canine femoral head. Ochoa JA, et al. **J Biomech Eng** 1997 Feb; 119(1):103–8

FLUID THERAPY

see related

REHYDRATION SOLUTIONS

Hyperosmotic-hyperoncotic solutions during abdominal aortic aneurysm (AAA) resection. Christ F, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):62–70

Fluid therapy with Ringer's solution versus Haemaccel following coronary artery bypass surgery. Wahba A, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1227–33

Fluid replacement in burned patients. Bortolani A, et al. **Acta Chir Plast** 1996;38(4):132–6

Emergency treatment and early fluid resuscitation following electrical injuries. Colić M, et al. **Acta Chir Plast** 1996; 38(4):137–41

"Small volume resuscitation" as treatment of cerebral blood flow disturbances and increased ICP in trauma and ischemia. Kempski O, et al. **Acta Neurochir Suppl (Wien)** 1996;66:114–7

Arginine vasopressin and renin in acutely ill children: implication for fluid therapy. Gerigk M, et al. **Acta Paediatr** 1996 May;85(5):550–3

American Academy of Pediatrics develops guidelines for acute gastroenteritis in young children. **Am Fam Physician** 1996 Oct;54(5):1796, 1799

Misguided mercy [letter; comment] Volz BA. **Am J Nurs** 1997 May;97(5):16. Comment on: Am J Nurs 1997 Mar;97(3):26–30; quiz 31.

Do dying patients really need i.v. fluids? [see comments] Zerwekh JV. **Am J Nurs** 1997 Mar;97(3):26–30; quiz 31 (9 ref.). Comment in: Am J Nurs 1997 May;97(5):16.

Upregulation of alveolar liquid clearance after fluid resuscitation for hemorrhagic shock in rats. Modelska K, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L305–14

Fluid compartments in hemorrhaged rats after hyperosmotic crystalloid and hyperoncotic colloid resuscitation. Moon PF, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F1–8

Fluid preload and atrial natriuretic peptide [letter; comment] Rout CC. **Anaesthesia** 1996 Sep;51(9):889–90. Comment on: Anaesthesia 1996 Feb;51(2):128–32.

Transesophageal echocardiography: an objective tool in defining maximum ventricular response to intravenous fluid therapy. Swenson JD, et al. **Anesth Analg** 1996 Dec; 83(6):1149–53

The effect of dextran infusion on antithrombin III concentrations and on platelet function during minor surgery. Randell T, et al. **Ann Chir Gynaecol** 1996; 85(1):17–21

Effect of immediate fluid resuscitation on the rate, volume, and duration of pulmonary vascular hemorrhage in a sheep model of penetrating thoracic trauma. Sakles JC, et al. **Ann Emerg Med** 1997 Mar;29(3):392–9

Postoperative hyponatremia despite near–isotonic saline infusion: a phenomenon of desalination [see comments] Steele A, et al. **Ann Intern Med** 1997 Jan 1;126(1):20–5. Comment in: Ann Intern Med 1997 Jun 15;126(12):1005–6.

Randomised double blind study of hypotonic oral rehydration solution in diarrhoea. Rautanen T, et al. **Arch Dis Child** 1997 Mar;76(3):272–4

Shorter preoperative fluid fasts reduce postoperative emesis [letter; comment] Smith AF, et al. **BMJ** 1997 May 17; 314(7092):1486. Comment on: BMJ 1997 Jan 18;314(7075):162.

Normal saline i.v. fluid load decreases uterine activity in active labour. Cheek TG, et al. **Br J Anaesth** 1996 Nov; 77(5):632–5

Volume kinetics of Ringer's solution in female volunteers. Hahn RG, et al. **Br J Anaesth** 1997 Feb;78(2):144–8

Modelling the volume of expandable body fluid spaces during i.v. fluid therapy. Ståhle L, et al. **Br J Anaesth** 1997 Feb; 78(2):138–43

Antioxidant potential of i.v. fluids. Stratford N. **Br J Anaesth** 1997 Jun;78(6):757–9

Variability in post–operative fluid and electrolyte prescription. Stoneham MD, et al. **Br J Clin Pract** 1997 Mar;51(2):82–4

Diet and nutrition. Griffin J. **Br J Sports Med** 1997 Mar; 31(1):78

Heat acclimatisation and rehydration strategy. Maughan R. **Br J Sports Med** 1997 Mar;31(1):77

Hemodynamic support during sepsis. Ognibene FP. **Clin Chest Med** 1996 Jun;17(2):279–87 (22 ref.)

Effect of water and bicarbonate loading in patients with chronic renal failure. Passfall J, et al. **Clin Nephrol** 1997 Feb;47(2):92–8

Fluid and electrolyte therapy [editorial; comment] Brouhard BH. **Clin Pediatr (Phila)** 1997 Jul;36(7):401–2 (11 ref.). Comment on: Clin Pediatr (Phila) 1997 Jul;36(7):395–400.

Treatment of acute gastroenteritis: too much and too little care. Merrick N, et al. **Clin Pediatr (Phila)** 1996 Sep; 35(9):429–35 (38 ref.)

Must living renal donors be hospitalized overnight prior to surgery? Friedman AL, et al. **Clin Transplant** 1996 Oct; 10(5):444–6

Small hemodynamic effect of typical rapid volume infusions in critically ill patients. Axler O, et al. **Crit Care Med** 1997 Jun;25(6):965–70

Analysis of the use of oral rehydration therapy corner in a teaching hospital in Gondar, Ethiopia. Teka T. **East Afr Med J** 1995 Oct;72(10):669–71

The emergency department approach to diarrhea. Hogan DE. **Emerg Med Clin North Am** 1996 Nov;14(4):673–94 (121 ref.)

Restoration of fluid balance after exercise–induced dehydration: effects of food and fluid intake. Maughan RJ, et al. **Eur J Appl Physiol** 1996;73(3–4):317–25

Nitric oxide counteracts 5–hydroxytryptamine– and cholera toxin–induced fluid secretion and enhances the effect of oral rehydration solution. Beubler E, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):223–8

Postoperative intravenous drip infusion is not required after minilaparotomy cholecystectomy. Kumar N, et al. **HPB Surg** 1997;10(5):279–81

Changes in the initial distribution volume of glucose and plasma volume following volume challenge in dogs. Miyahara A, et al. **Infusionsther Transfusionsmed** 1995 Oct; 22(5):274–9

Is potassium needed in sports drinks for fluid replacement during exercise? Cunningham JJ. **Int J Sport Nutr** 1997 Jun;7(2):154–9 (17 ref.)

Influence of sodium replacement on fluid ingestion following exercise–induced dehydration. Wemple RD, et al. **Int J Sport Nutr** 1997 Jun;7(2):104–16

Total fluid balance during transurethral resection of the prostate. Hahn RG. **Int Urol Nephrol** 1996;28(5):665–71

Aiding fluid prescription for the dysnatremias. Adrogué HJ, et al. **Intensive Care Med** 1997 Mar;23(3):309–16

Changes in plasma ionised calcium within 24 hours of trauma in patients infused with the calcium containing colloid Haemaccel during fluid resuscitation. Evans PA, et al. **J Accid Emerg Med** 1997 Mar;14(2):73–5

Fluid resuscitation in traumatic haemorrhage [letter; comment] McNicholl B. **J Accid Emerg Med** 1996 Jul; 13(4):301. Comment on: J Accid Emerg Med 1995 Sep;12(3):165–72.

Hysteroscopic fluid management. Corson SL. **J Am Assoc Gynecol Laparosc** 1997 May;4(3):375–9

Intravenous vs. oral rehydration: effects on subsequent exercise–heat stress. Castellani JW, et al. **J Appl Physiol** 1997 Mar;82(3):799–806

Thermodilution cardiac output measurement during simultaneous volume infusion through the venous infusion port of the pulmonary artery catheter. Griffin K, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):437–9

Magnetron–based inline microwave fluid warmer. Gibby GL, et al. **J Clin Monit** 1996 May;12(3):271–6

Treatment of acute infantile diarrhoea with a commercial rice–based oral rehydration solution. Guiraldes E, et al. **J Diarrhoeal Dis Res** 1995 Dec;13(4):207–11

Glucose–based oral rehydration therapy. Richardson CR. **J Fam Pract** 1996 Oct;43(4):344–5

A controlled trial comparing the efficacy of rice–based and hypotonic glucose oral rehydration solutions in infants and young children with gastroenteritis. Wall CR, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):24–8

A systematic review of the evidence for hypodermoclysis to treat dehydration in older people. Rochon PA, et al. **J Gerontol A Biol Sci Med Sci** 1997 May;52(3):M169–76 (51 ref.)

Hydration for control of syncope in palliative care [letter] Benítez del Rosario MA, et al. **J Pain Symptom Manage** 1997 Jul;14(1):5–6

Improving the palatability of oral rehydration solutions has implications for salt and water transport: a study in animal models. Dias JA, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):275–9

A multicentre study on behalf of the European Society of Paediatric Gastroenterology and Nutrition Working Group on Acute Diarrhoea. Early feeding in childhood gastroenteritis. Sandhu BK, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):522–7

Maternal intravenous hydration and amniotic fluid index in patients with preterm ruptured membranes. Chelmow D, et al. **J Soc Gynecol Investig** 1996 May–Jun;3(3):127–30

Fluid balance during team sports. Burke LM. **J Sports Sci** 1997 Jun;15(3):287–95

Nutritional strategies to minimize fatigue during prolonged exercise: fluid, electrolyte and energy replacement. Dennis SC, et al. **J Sports Sci** 1997 Jun;15(3):305–13

Recovery from prolonged exercise: restoration of water and electrolyte balance. Maughan RJ, et al. **J Sports Sci** 1997 Jun;15(3):297–303

Fluid resuscitation attenuates early cytokine mRNA expression after peritonitis. Wilson MA, et al. **J Trauma** 1996 Oct;41(4):622–7

A double–blind randomized trial comparing outpatient parenteral nutrition with intravenous hydration: effect on resumption of oral intake after marrow transplantation. Charuhas PM, et al. **JPEN J Parenter Enteral Nutr** 1997 May–Jun;21(3):157–61

Evaluation of doctors trained at Diarrhoea Training Unit of National Institute of Child Health, Karachi. Ibrahim S, et al. **JPMA J Pak Med Assoc** 1997 Jan;47(1):7–11

Evaluation of diarrhoea management of health professionals trained at the Diarrhoea Training Unit of Rawalpindi General Hospital. Kundi MZ, et al. **JPMA J Pak Med Assoc** 1997 Jan;47(1):3–6

American College of Sports Medicine position stand. Exercise and fluid replacement. Convertino VA, et al. **Med Sci Sports Exerc** 1996 Jan;28(1):i–vii (92 ref.)

Post–exercise rehydration in man: effects of volume consumed and drink sodium content. Shirreffs SM, et al. **Med Sci Sports Exerc** 1996 Oct;28(10):1260–71

Intraoperative maintenance of tissue perfusion prevents ARDS. Adult Respiratory Distress Syndrome. Thangathurai D, et al. **New Horiz** 1996 Nov;4(4):466–74

Guidelines on artificial nutrition versus hydration in terminal cancer patients. European Association for Palliative Care. Bozzetti F, et al. **Nutrition** 1996 Mar;12(3):163–7

Fluid management of diabetic ketoacidosis [comment] Finberg L. **Pediatr Rev** 1996 Feb;17(2):46, 52. Comment on: Pediatr Rev 1995 Aug;16(8):304–5.

Reversing oliguria in critically ill patients. DePriest J. **Postgrad Med** 1997 Sep;102(3):245–6, 251–2, 258 passim (20 ref.)

Dehydration in the terminally ill—iatrogenic insult or natural process? Chadfield–Mohr SM, et al. **Postgrad Med J** 1997 Aug;73(862):476–80 (35 ref.)

Cellulose derivatives and intestinal absorption of water and electrolytes: potential role in oral rehydration solutions. Wapnir RA, et al. **Proc Soc Exp Biol Med** 1997 Jul; 215(3):275–80

Cytosolic Ca2+ concentration and contraction–relaxation properties of ventricular myocytes from Escherichia coli endotoxemic guinea pigs: effect of fluid resuscitation. Zhong J, et al. **Shock** 1997 May;7(5):383–8

When to treat dehydration in a terminally ill patient? Fainsinger RL, et al. **Support Care Cancer** 1997 May; 5(3):205–11 (54 ref.)

Fluid resuscitation with Haemaccel vs. human albumin following coronary artery bypass grafting. Wahba A, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):178–82

Self–reported concepts about oral rehydration solution, drug prescribing and reasons for prescribing antidiarrhoeals for acute watery diarrhea in children. Nizami SQ, et al. **Trop Doct** 1996 Oct;26(4):180–3

Managing chronic retention of urine in obstructive uropathy [editorial] Schweitzer F. **Trop Doct** 1997 Apr;27(2):67–8

A safety study of Albumex 5, a human albumin solution produced by ion exchange chromatography. Wolf M, et al. **Vox Sang** 1996;70(4):198–202

Oral rehydration at home—with a little help from friends. Akpede GO, et al. **World Health Forum** 1997;18(1):75–9

Aspects of dehydration and rehydration in sport. Brouns F. **World Rev Nutr Diet** 1997;82:63–80 (61 ref.)

[Perioperative fluid infusion—still a challenge (editorial)] Engquist A. **Ugeskr Laeger** 1996 Sep 16;158(38):5270 **(Dan)**

[Dehydration in the elderly patient] Smitz S. **Rev Med Liege** 1997 Apr;52(4):215–20 (14 ref.) **(Fre)**

[Infusion constituents in pediatric anesthesia] Pigna A, et al. **Minerva Anestesiol** 1996 Apr;62(4):137–41 (Eng. Abstr.) **(Ita)**

[Intraoperative fluid therapy] Ogawa R. **Masui** 1996 Dec;45 Suppl:S199–207 (15 ref.) **(Jpn)**

[Damage of intestinal mucosal barrier function after fluid resuscitation during hemorrhagic shock] Shimada J. **Masui** 1996 Jan;45(1):49–58 (Eng. Abstr.) **(Jpn)**

[Intraoperative fluid infusion and blood transfusion in patients of esophageal cancer] Endo Y, et al. **Nippon Geka Gakkai Zasshi** 1996 Jun;97(6):416–20 (9 ref.) (Eng. Abstr.) **(Jpn)**

[A very old man with Crush syndrome] Ogimoto A, et al. **Nippon Ronen Igakkai Zasshi** 1996 Oct;33(10):783–6 (Eng. Abstr.) **(Jpn)**

[Infusion–transfusion therapy at stages of medical evacuation] Danil'chenko VV. **Voen Med Zh** 1997 Jan;318(1):53–6 **(Rus)**

ADVERSE EFFECTS

Effect of permissive hypotension in continuous uncontrolled intra–abdominal hemorrhage. Silbergleit R, et al. **Acad Emerg Med** 1996 Oct;3(10):922–6

Marked dilutional acidosis complicating management of right ventricular myocardial infarction. Jaber BL, et al. **Am J Kidney Dis** 1997 Oct;30(4):561–7

Accidental massive extravascular infusion of fluids in a burned patient. Svartling N, et al. **Anaesth Intensive Care** 1996 Jun;24(3):394–6

Fluid retention and intravenous hydration in the dying [letter] Musgrave CF, et al. **Palliat Med** 1996 Jan;10(1):53

INSTRUMENTATION

Very limited air elimination capability of the level 1 fluid warmer. Hartmannsgruber MW, et al. **J Clin Anesth** 1997 May;9(3):233–5

Excess mortality associated with the use of a rapid infusion system at a level 1 trauma center [see comments] Hambly PR, et al. **Resuscitation** 1996 Apr;31(2):127–33. Comment in: Resuscitation 1997 Feb;34(1):89–90. Comment in: Resuscitation 1997 Feb;34(1):90–1. Comment in: Resuscitation 1997 Feb;34(1):91–3. Comment in: Resuscitation 1997 Feb;34(1):93–5. Comment in: Resuscitation 1997 Feb;34(1):95–6.

Excess mortality associated with the use of a rapid infusion system at a level 1 trauma center [letter] Tisherman. **Resuscitation** 1997 Aug;35(1):87–8

METHODS

Fluid resuscitation in thermally injured pediatric patients. Marinov Z, et al. **Acta Chir Plast** 1997;39(1):28–32

A trial in the Karelian Republic of oral rehydration and Lactobacillus GG for treatment of acute diarrhoea. Shornikova AV, et al. **Acta Paediatr** 1997 May;86(5):460–5

Small–volume resuscitation using hypertonic saline improves organ perfusion in burned rats. Kien ND, et al. **Anesth Analg** 1996 Oct;83(4):782–8

Outpatient oral rehydration [letter; comment] Ladinsky M, et al. **Ann Emerg Med** 1997 Apr;29(4):551–2. Comment on: Ann Emerg Med 1996 Sep;28(3):318–23.

Outpatient oral rehydration [letter; comment] Meyers A. **Ann Emerg Med** 1997 Apr;29(4):552–3. Comment on: Ann Emerg Med 1996 Sep;28(3):318–23.

Use of modified fluid gelatin and hydroxyethyl starch for colloidal volume replacement in major orthopaedic surgery. Beyer R, et al. **Br J Anaesth** 1997 Jan;78(1):44–50

Influence of different volume therapy regimens on regulators of the circulation in the critically ill. Boldt J, et al. **Br J Anaesth** 1996 Oct;77(4):480–7

Safe, simple subcutaneous fluid administration. Farrand S, et al. **Br J Hosp Med** 1996 Jun 5–18;55(11):690–2 (5 ref.)

Fluid resuscitation following a burn injury: implications of a mathematical model of microvascular exchange. Bert J, et al. **Burns** 1997 Mar;23(2):93–105

Dehydration and provision of fluids in palliative care. What is the evidence? Burge FI. **Can Fam Physician** 1996 Dec; 42:2383–8 (14 ref.)

FLUID THERAPY

Therapeutic interventions for oligohydramnios: amnioinfusion and maternal hydration. Kilpatrick SJ. **Clin Obstet Gynecol** 1997 Jun;40(2):328–36 (39 ref.)

Effect of resuscitation on bacterial translocation in haemorrhagic shocked rats [see comments] Erbil Y, et al. **East Afr Med J** 1996 Nov;73(11):699–702. Comment in: East Afr Med J 1996 Nov;73(11):697–8.

Feto–maternal outcome in pre–eclampsia/eclampsia with and without multisystem organ failure managed by strict input/output fluid regimen. Van Bogaert LJ. **East Afr Med J** 1996 Nov;73(11):720–3

Penile intracorporeal infusion—possible access to the systemic circulation. Pressure flow studies in dogs and humans. Gofrit ON, et al. **Eur J Surg** 1997 Jun; 163(6):457–61

Hypertonic saline infusion with or without dextran 70 in the reperfusion phase of experimental acute limb ischaemia. Waagstein LM, et al. **Eur J Vasc Endovasc Surg** 1997 Mar; 13(3):285–95

Comparison of oral and intravenous hydration and diuretic, choice for protecting cisplatin induced nephrotoxicity. Dana R, et al. **Indian J Cancer** 1996 Dec;33(4):168–70

Bouhaja et al., Intensive Care Med (1994) 20:307–308 [letter; comment] Bascom JU. **Intensive Care Med** 1996 Dec; 22(12):1464–5. Comment on: Intensive Care Med 1994;20(4):307–8.

Oral rehydration solutions: enhanced sodium absorption with gum arabic. Wapnir RA, et al. **J Am Coll Nutr** 1996 Aug; 15(4):377–82

A comparison of two different 2400 mOsm solutions for resuscitation of major burns. Milner SM, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):109–15

The significance of oncometry for infusion therapy during pediatric heart surgery. Bartels C, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):249–55

A comparison between the acute effects of nitric oxide synthase inhibition and fluid resuscitation on myocardial function and metabolism in entotoxemic dogs. Cohen RI, et al. **J Crit Care** 1996 Mar;11(1):27–36

Oral rehydration therapy. Sachdev HP. **J Indian Med Assoc** 1996 Aug;94(8):298–305 (46 ref.)

Nutrition of infants and children during acute diarrhea. Bittar Z. **J Med Liban** 1997;45(2):93–6 (12 ref.)

Fluid management in gastroenteritis [letter; comment] Howard K. **J Paediatr Child Health** 1996 Aug;32(4):354. Comment on: J Paediatr Child Health 1996 Feb;32(1):16–7. Comment on: J Paediatr Child Health 1996 Feb;32(1):18–21.

Re: Comparison of concentrations of hyaluronidase [letter; comment] Regnard CF. **J Pain Symptom Manage** 1996 Sep; 12(3):147. Comment on: J Pain Symptom Manage 1995 Oct;10(7):505–9.

Re: Comparison of concentrations of hyaluronidase [letter; comment] Viola R, et al. **J Pain Symptom Manage** 1996 Sep;12(3):147–8. Comment on: J Pain Symptom Manage 1995 Oct;10(7):505–9.

Should intravenous hydration be the first line of defense with threatened preterm labor? A critical review of the literature. Freda MC, et al. **J Perinatol** 1996 Sep–Oct; 16(5):385–9 (15 ref.)

Fluid resuscitation in a model of uncontrolled hemorrhage: too much too early, or too little too late? Leppäniemi A, et al. **J Surg Res** 1996 Jul 1;63(2):413–8

Myocardial O2 balance during fluid resuscitation in uncontrolled hemorrhage: computer model. Sheffer N, et al. **J Trauma** 1997 Apr;42(4):647–51

Fluid resuscitation and systemic complications in crush syndrome: 14 Hanshin–Awaji earthquake patients. Shimazu T, et al. **J Trauma** 1997 Apr;42(4):641–6

An optimal choice: home intravenous hydration after tonsillectomy. Blakeslee DB, et al. **Laryngoscope** 1997 Oct; 107(10):1332–5

Effects of oral and intravenous rehydration on ratings of perceived exertion and thirst. Riebe D, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):117–24

Superiority of rice–based oral rehydration solution [letter] Kulkarni ML, et al. **Natl Med J India** 1996 Jul–Aug; 9(4):198–9

Comparison of fluid and flunixin meglumine therapy in combination and individually in the treatment of toxic mastitis. Green MJ, et al. **Vet Rec** 1997 Feb 8;140(6):149–52

Fluid and electrolyte therapy in West African adults. Badoe EA. **West Afr J Med** 1997 May–Jun;16(2):64–70 (14 ref.)

[Clinical application of albumin: a closer look at indications] Smorenburg CH, et al. **Ned Tijdschr Geneeskd** 1997 Apr 12;141(15):719–23 (47 ref.) (Eng. Abstr.) **(Dut)**

[Indications and role of albumin for vascular loading during prehospital care] Carli P. **Ann Fr Anesth Reanim** 1996; 15(4):470–2 (Eng. Abstr.) **(Fre)**

[Fluid management of patients with craniocerebral trauma] Eckart J. **Zentralbl Neurochir** 1997;58(2):82–8 (47 ref.) **(Ger)**

[Administration of fluid by subcutaneous infusion: revival of a forgotten method] Schen R. **Harefuah** 1997 May 15; 132(10):716–7 (24 ref.) **(Heb)**

MORTALITY

Excess mortality associated with the use of rapid infusion system at level 1 trauma center [letter; comment] Gabrielson GV. **Resuscitation** 1997 Feb;34(1):95–6. Comment on: Resuscitation 1996 Apr;31(2):127–33.

Excess mortality associated with the use of rapid infusion system at level 1 trauma center [letter; comment] Kindscher JD. **Resuscitation** 1997 Feb;34(1):90–1. Comment on: Resuscitation 1996 Apr;31(2):127–33.

Excess mortality associated with the use of rapid infusion system at level 1 trauma center [letter; comment] Merritt WT. **Resuscitation** 1997 Feb;34(1):89–90. Comment on: Resuscitation 1996 Apr;31(2):127–33.

Excess mortality associated with the use of rapid infusion system at level 1 trauma center [letter; comment] Plotkin JS. **Resuscitation** 1997 Feb;34(1):93–5. Comment on: Resuscitation 1996 Apr;31(2):127–33.

Excess mortality associated with the use of rapid infusion system at level 1 trauma center [letter; comment] Spiess BD. **Resuscitation** 1997 Feb;34(1):91–3. Comment on: Resuscitation 1996 Apr;31(2):127–33.

NURSING

Tube feeding dilemmas: can artificial nutrition and hydration be legally or ethically withheld or withdrawn? Goodhall L. **J Adv Nurs** 1997 Feb;25(2):217–22

Oral rehydration therapy. A neglected treatment for pediatric diarrhea. Straughn A, et al. **MCN Am J Matern Child Nurs** 1996 May–Jun;21(3):144–7

PSYCHOLOGY

Symptoms and perceived severity of illness as predictive of treatment for diarrhea in six Asian and African sites. Yoder PS, et al. **Soc Sci Med** 1996 Aug;43(4):429–39

STANDARDS

Evaluation of a nutritive oral rehydration solution for the treatment of calf diarrhoea. Brooks HW, et al. **Br Vet J** 1996 Nov;152(6):699–708

Hypertensive, hypervolemic, hemodilutional therapy for aneurysmal subarachnoid hemorrhage. Is it efficacious? No. Oropello JM, et al. **Crit Care Clin** 1996 Jul;12(3):709–30 (79 ref.)

Hypertensive, hypervolemic, hemodilutional therapy for aneurysmal subarachnoid hemorrhage. Is it efficacious? Yes. Ullman JS, et al. **Crit Care Clin** 1996 Jul;12(3):697–707 (70 ref.)

Influence of location and staff knowledge on quality of retail pharmacy prescribing for childhood diarrhea in Kenya. Goel PK, et al. **Int J Qual Health Care** 1996 Dec; 8(6):519–26

The use of electrolyte solutions for reducing transport stress. Schaefer AL, et al. **J Anim Sci** 1997 Jan;75(1):258–65 (97 ref.)

[Perioperative fluid therapy. A quality control study] Rasmussen LA, et al. **Ugeskr Laeger** 1996 Sep 16; 158(38):5286–90 (Eng. Abstr.) **(Dan)**

[Effect of hygiene measures, water sanitation and oral rehydration therapy on diarrhea in children less than five years old in the south of Ivory Coast] Messou E, et al. **Bull Soc Pathol Exot** 1997;90(1):44–7 (Eng. Abstr.) **(Fre)**

VETERINARY

Effect of glutamine or glycine containing oral electrolyte solutions on mucosal morphology, clinical and biochemical findings, in calves with viral induced diarrhea. Naylor JM, et al. **Can J Vet Res** 1997 Jan;61(1):43–8

Restoration of water and electrolyte balance in horses after repeated exercise in hot and humid conditions. Hyyppä S, et al. **Equine Vet J Suppl** 1996 Jul;(22):108–12

Strategies for voluntary rehydration in horses during endurance exercise. Nyman S, et al. **Equine Vet J Suppl** 1996 Jul;(22):99–106

The effects of tonicity, glucose concentration and temperature of an oral rehydration solution on its absorption and elimination. Sosa León LA, et al. **Equine Vet J Suppl** 1995 Nov;(20):140–6

Evaluation of a hypertonic saline–dextran solution for treatment of dogs with shock induced by gastric dilatation–volvulus. Schertel ER, et al. **J Am Vet Med Assoc** 1997 Jan 15;210(2):226–30

Cost effectiveness of use of a solution of 6% dextran 70 in young calves with severe diarrhea. Wall PL, et al. **J Am Vet Med Assoc** 1996 Nov 15;209(10):1714–5

Direct in–straw rehydration after thawing of vitrified in vitro produced bovine blastocysts. Vajta G, et al. **Vet Rec** 1995 Dec 23–30;137(26):672

FLUKES see **TREMATODA**

FLUMAZENIL

Midazolam–flumazenil topical anaesthesia for microlaryngoscopy with jet ventilation. Rushatamukayanunt W, et al. **Anaesth Intensive Care** 1997 Aug;25(4):358–64

ADMINISTRATION & DOSAGE

Effect of flumazenil on ventilatory drive during sedation with midazolam and alfentanil. Gross JB, et al. **Anesthesiology** 1996 Oct;85(4):713–20

Intrathecally administered flumazenil and PK 11195 precipitate abstinence syndrome in freely moving diazepam dependent rats. Wala EP, et al. **Drug Alcohol Depend** 1996 Dec 11;43(3):169–77

Intravenous flumazenil following prolonged exposure to lormetazepam in humans: lack of precipitated withdrawal. Gerra G, et al. **Int Clin Psychopharmacol** 1996 Jun; 11(2):81–8

[Sedation in endoscopic diagnosis: rationale of the use of specific benzodiazepine antagonists] Chillemi S, et al. **G Chir** 1996 Jun–Jul;17(6–7):349–52 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Flumazenil–induced seizure accompanying benzodiazepine and baclofen intoxication [letter] Chern TL, et al. **Am J Emerg Med** 1996 Mar;14(2):231–2

Flumazenil associated seizure in an 11–month–old child. Davis CO, et al. **J Emerg Med** 1996 May–Jun;14(3):331–3

[A case of convulsion induced by flumazenil] Taki H, et al. **Masui** 1996 Oct;45(10):1247–51 (Eng. Abstr.) **(Jpn)**

ANALOGS & DERIVATIVES

A method for the quantification of benzodiazepine receptors by using 123I–iomazenil and SPECT with one scan and one blood sampling. Ito H, et al. **Ann Nucl Med** 1997 May; 11(2):101–8

Decrease of the central type benzodiazepine receptor in cortical tubers in a patient with tuberous sclerosis. Fujita M, et al. **Clin Nucl Med** 1997 Feb;22(2):130–1

Delayed image of iodine–123 iomazenil as a relative map of benzodiazepine receptor binding: the optimal scan time. Onishi Y, et al. **Eur J Nucl Med** 1996 Nov;23(11):1491–7

Reduced cortical distribution volume of iodine–123 iomazenil in Alzheimer's disease as a measure of loss of synapses. Soricelli A, et al. **Eur J Nucl Med** 1996 Oct;23(10):1323–8

Presurgical identification of epileptic foci with iodine–123 iomazenil SPET: comparison with brain perfusion SPET and FDG PET. Tanaka F, et al. **Eur J Nucl Med** 1997 Jan;24(1):27–34

123I–iomazenil as a clinical tool for studying neuronal loss [letter] Postiglione A, et al. **J Am Geriatr Soc** 1997 Apr; 45(4):534–6

Is 11C–flumazenil PET superior to 18FDG PET and 123I–iomazenil SPECT in presurgical evaluation of temporal lobe epilepsy? Debets RM, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):141–50

Comparison of iodine–123–iomazenil SPECT and technetium–99m–HMPAO–SPECT in Alzheimer's disease. Fukuchi K, et al. **J Nucl Med** 1997 Mar;38(3):467–70

The effects of single and repeated phencyclidine administration on [125I] iomazenil binding in the rat brain. Kaneko K, et al. **Neurochem Int** 1996 Sep;29(3):279–87

Reduction of 123I–iomazenil uptake in haemodynamically and metabolically impaired brain areas in patients with cerebrovascular disease. Hayashida K, et al. **Nucl Med Commun** 1996 Aug;17(8):701–5

Pharmacokinetic analysis of benzodiazepine receptor binding of [123I]iomazenil in human brain. Ito K, et al. **Pharm Res** 1997 Aug;14(8):999–1003

Alterations of benzodiazepine receptor binding potential in anxiety and somatoform disorders measured by 123I–iomazenil SPECT. Tokunaga M, et al. **Radiat Med** 1997 May–Jun;15(3):163–9

Assessment of benzodiazepine receptors using iodine–123–labeled iomazenil single–photon emission computed tomography in patients with ischemic cerebrovascular disease. A comparison with PET study. Dong Y, et al. **Stroke** 1997 Sep;28(9):1776–82

Incomplete brain infarction of reperfused cortex may be quantitated with iomazenil. Nakagawara J, et al. **Stroke** 1997 Jan;28(1):124–32

[Benzodiazepine receptor and cerebral blood flow in early Alzheimer's disease—SPECT study using 123I–iomazenil and 123I–IMP] Kitamura S, et al. **Kaku Igaku** 1996 Jan; 33(1):49–56 (Eng. Abstr.) **(Jpn)**

[Evaluation of 123I–iomazenil SPECT in patients with ischemic cerebrovascular disease: comparative study with 123I–IMP SPECT] Moriwaki H, et al. **Kaku Igaku** 1996 Jun;33(6):587–97 (Eng. Abstr.) **(Jpn)**

[Parametric images of central–type benzodiazepine receptor binding and ligand transport by two SPECT scans of 123I–iomazenil: relative quantification without blood data] Onishi Y, et al. **Kaku Igaku** 1996 Sep;33(9):953–63 (Eng. Abstr.) **(Jpn)**

[Compartment analysis of 123I–iomazenil brain on early and delayed SPECT] Yanagimoto S, et al. **Kaku Igaku** 1997 Jun;34(6):371–7 (Eng. Abstr.) **(Jpn)**

[Assessment of cerebral benzodiazepine receptor distribution in anxiety disorders by 123I–iomazenil–SPECT: comparison to cerebral perfusion scintigraphy by 123I–IMP] Uchiyama M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan;57(1):41–6 (Eng. Abstr.) **(Jpn)**

[Assessment of cerebral benzodiazepine receptor distribution in epilepsy by 123I–iomazenil–SPECT] Uchiyama M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan; 57(1):47–51 (Eng. Abstr.) **(Jpn)**

[Evaluation of benzodiazepine receptor in the cerebral cortex of Parkinson's disease using 123I–iomazenil SPECT] Kawabata K, et al. **Nippon Rinsho** 1997 Jan;55(1):244–8 (21 ref.) (Eng. Abstr.) **(Jpn)**

DIAGNOSTIC USE

A pilot controlled study of the effects of flumazenil in posttraumatic stress disorder. Coupland NJ, et al.

Biol Psychiatry 1997 May 1;41(9):988–90

Parametric images of benzodiazepine receptor concentration using a partial-saturation injection. Delforge J, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):343–55

11C-flumazenil PET, volumetric MRI, and quantitative pathology in mesial temporal lobe epilepsy. Koepp MJ, et al. **Neurology** 1997 Sep;49(3):764–73

Receptor imaging technique with 11C-labeled receptor ligands in living brain slices: its application to time-resolved imaging and saturation analysis of benzodiazepine receptor using [11C]Ro15-1788. Murata T, et al. **Neurosci Res** 1996 Jun;25(2):145–54

METABOLISM

Pharmacological profile of benzodiazepine site ligands with recombinant GABAA receptor subtypes. Graham D, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):119–25

Cerebral benzodiazepine receptor binding in vivo in patients with recurrent hepatic encephalopathy. Macdonald GA, et al. **Hepatology** 1997 Aug;26(2):277–82

Is 11C-flumazenil PET superior to 18FDG PET and 123I-iomazenil SPECT in presurgical evaluation of temporal lobe epilepsy? Debets RM, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):141–50

PHARMACOKINETICS

Quantitative autoradiography using selective radioligands for central and peripheral-type benzodiazepine receptors in experimental Wernicke's encephalopathy: implications for positron emission tomography imaging. Leong DK, et al. **Alcohol Clin Exp Res** 1996 May;20(3):601–5

PHARMACOLOGY

Receptorpharmacological models for the therapy of labyrinthine vertigo. Ehrenberger K, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):189–91

A placebo controlled study of flumazenil in bronchoscopic procedures. Williamson BH, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):77–83

Effects of the benzodiazepine inverse agonist RO19-4603 alone and in combination with the benzodiazepine receptor antagonists flumazenil, ZK 93426 and CGS 8216, on ethanol intake in alcohol-preferring (P) rats. June HL, et al. **Brain Res** 1996 Sep 23;734(1-2):19–34

Flumazenil but not FG7142 reverses the decrease in pentobarbital sleep caused by activation of central noradrenergic systems in mice. Matsumoto K, et al. **Brain Res** 1997 Apr 18;754(1-2):325–8

Flumazenil reverses the decrease in the hypnotic activity of pentobarbital by social isolation stress: are endogenous benzodiazepine receptor ligands involved? Ojima K, et al. **Brain Res** 1997 Jan 16;745(1-2):127–33

Sex differences in bicuculline-induced convulsions: interaction with stress and ligands of benzodiazepine binding sites. Perićić D, et al. **Brain Res** 1997 Mar 28; 752(1-2):279–84

Antagonism of AND and AND-OR drug mixture discriminations in rats. Mariathasan EA, et al. **Drug Alcohol Depend** 1997 Jan 10;44(1):31–4

Intrathecally administered flumazenil and PK 11195 precipitate abstinence syndrome in freely moving diazepam dependent rats. Wala EP, et al. **Drug Alcohol Depend** 1996 Dec 11;43(3):169–77

Hyperphagia induced by direct administration of midazolam into the parabrachial nucleus of the rat. Higgs S, et al. **Eur J Pharmacol** 1996 Oct 10;313(1-2):1–9

Flumazenil attenuates the pituitary response to CRH in healthy males. Ströhle A, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):323–5

Evaluation of sedation in quail induced by use of midazolam and reversed by use of flumazenil [see comments] Day TK, et al. **J Am Vet Med Assoc** 1996 Sep 1;209(5):969–71. Comment in: J Am Vet Med Assoc 1996 Dec 15;209(12):1992–3.

Ability of flumazenil, butorphanol, and naloxone to reverse the anesthetic effects of oxymorphone-diazepam in dogs. Lemke KA, et al. **J Am Vet Med Assoc** 1996 Aug 15; 209(4):776–9

The effects of midazolam and flumazenil on psychomotor function. Gupta A, et al. **J Clin Anesth** 1997 Feb;9(1):21–5

Electrophysiological evidence for agonist properties of flumazenil, a benzodiazepine receptor antagonist, in rat hippocampus slices. Buldakova S, et al. **J Neurol Sci** 1997 Aug;149(2):121–6

The effects of flumazenil, Ro 15-4513 and beta-CCM on the behaviour of control and stressed mice in the plus-maze test. Pokk P, et al. **J Physiol Pharmacol** 1997 Jun; 48(2):253–61

Flumazenil does not affect the increase in rat hippocampal extracellular glutamate concentration produced during thioacetamide-induced hepatic encephalopathy. McArdle P, et al. **Metab Brain Dis** 1996 Dec;11(4):329–342

Intraseptal flumazenil enhances, while diazepam binding inhibitor impairs, performance in a working memory task. Herzog CD, et al. **Neurobiol Learn Mem** 1996 Nov; 66(3):341–52

Hypnotic and hypothermic effects of melatonin on daytime sleep in humans: lack of antagonism by flumazenil. Nave R, et al. **Neurosci Lett** 1996 Aug 23;214(2-3):123–6

Prevention of ACTH- and adrenalectomy-induced muricidal behavior: by benzodiazepinic ligands. Miachon S, et al. **Peptides** 1997;18(2):185–9

Discriminative stimulus effects of flumazenil in rhesus monkeys treated chronically with chlordiazepoxide. France CP, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):447–55

Effect of midazolam with and without flumazenil on conditioned hypoalgesia. Johnston RE. **Pharmacol Biochem Behav** 1996 Mar;53(3):649–56

Transient emotional changes elicited by intraperitoneal saline injection: effect of naloxone and flumazenil. Saldívar-González A, et al. **Pharmacol Biochem Behav** 1997 Feb;56(2):211–20

Dorsal raphe and substantia nigra response to flumazenil in diazepam-dependent rats. Wala EP, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):221–9

Blockade of behavioral effects of bretazenil by flumazenil and ZK 93,426 in pigeons. Witkin JM, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):1–7

A pilot pharmacokinetic-pharmacodynamic study of benzodiazepine antagonism by flumazenil and aminophylline. Bonfiglio MF, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1166–72

Repeated administration of flumazenil does not alter its potency in modifying schedule-controlled behavior in chlordiazepoxide-treated rhesus monkeys. Gerak LR, et al. **Psychopharmacology (Berl)** 1997 May;131(1):64–70

Enhancement by flumazenil of dopamine release in the nucleus accumbens of rats repeatedly exposed to diazepam or imidazenil. Motzo C, et al. **Psychopharmacology (Berl)** 1997 May;131(1):34–9

Flumazenil blockade of anxiety following ethanol withdrawal in rats. Moy SS, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):354–60

THERAPEUTIC USE

Receptorpharmacological models for the therapy of labyrinthine vertigo. Ehrenberger K, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):189–91

Flumazenil reverses paradoxical reaction to midazolam in a child. Thakker P, et al. **Anaesth Intensive Care** 1996 Aug; 24(4):505–7

Does midazolam cause retrograde amnesia, and can flumazenil reverse that amnesia? Koht A, et al. **Anesth Analg** 1997 Jul;85(1):211–2

Pseudocervical cord syndrome: a deceptive flumazenil reversible manifestation of hepatic encephalopathy [letter] McDonald JW, et al. **Arch Neurol** 1996 Oct;53(10):956

The use of antidotes in the management of central nervous system depression. Ferrer A, et al. **Arch Toxicol Suppl** 1997; 19:289–98 (35 ref.)

Double-blind trial of flumazenil in hemiballismus. Kulisevsky J, et al. **Clin Neuropharmacol** 1994 Oct;17(5):470–2

Evoked potentials and the effect of flumazenil in patients with liver cirrhosis. Ozyilkan E, et al. **East Afr Med J** 1997 Apr;74(4):210–2

Benzodiazepine receptor antagonist (flumazenil) does not affect sleep-related breathing disorders. Schönhofer B, et al. **Eur Respir J** 1996 Sep;9(9):1816–20

Flumazenil reversal of psychomotor impairment due to midazolam or diazepam for conscious sedation for upper endoscopy. Kankaria A, et al. **Gastrointest Endosc** 1996 Oct;44(4):416–21

Evaluation of the efficacy and safety of flumazenil in the treatment of portal systemic encephalopathy: a double blind, randomised, placebo controlled multicentre study. Gyr K, et al. **Gut** 1996 Aug;39(2):319–24

Cognitive effects of flumazenil in patients with Alzheimer's disease. Ott BR, et al. **J Clin Psychopharmacol** 1996 Oct; 16(5):400–2

Benzodiazepine mediated antagonism of opioid analgesia. Gear RW, et al. **Pain** 1997 May;71(1):25–9

Effects of flumazenil in the treatment of benzodiazepine withdrawal--a double-blind pilot study. Saxon L, et al. **Psychopharmacology (Berl)** 1997 May;131(2):153–60

Emergency department use of flumazenil prior to poison center consultation. Burda T, et al. **Vet Hum Toxicol** 1997 Aug;39(4):245–7

[Idiopathic and recurrent stupor: efficacy of flumazenil (letter)] Lemesle M, et al. **Presse Med** 1996 Nov 30; 25(37):1847 **(Fre)**

TOXICITY

Evaluation of perinatal flumazenil effects on the behavior of female RLA/Verh rats in anxiety tests and shuttle box avoidance. Ferré P, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):475–80

FLUMAZEPIL see **FLUMAZENIL**

FLUMETHASONE

ADMINISTRATION & DOSAGE

Prophylaxis of respiratory distress syndrome in premature calves by administration of dexamethasone or a prostaglandin F2 alpha analogue to their dams before parturition. Zaremba W, et al. **Am J Vet Res** 1997 Apr; 58(4):404–7

ANALYSIS

Dexametnasone and flumethasone residues in milk of intramuscularly dosed cows. Reding J, et al. **J Vet Pharmacol Ther** 1997 Jun;20(3):198–203

THERAPEUTIC USE

Efficacy of the combination sodium ceftiofur-flumethasone in the treatment of experimental Pasteurella haemolytica bronchopneumonia in calves. Sustronck B, et al. **Zentralbl Veterinarmed A** 1997 May;44(3):179–87

FLUNARIZINE

ADMINISTRATION & DOSAGE

Flunarizine in stroke treatment (FIST): a double-blind, placebo-controlled trial in Scandinavia and the Netherlands. Franke CL, et al. **Acta Neurol Scand** 1996 Jan;93(1):56–60

Essential palatal tremor successfully treated with flunarizine. Cakmur R, et al. **Eur Neurol** 1997;38(2):133–4

ADVERSE EFFECTS

Postmarketing study of the use of flunarizine in vestibular vertigo and in migraine. Verspeelt J, et al. **Eur J Clin Pharmacol** 1996;51(1):15–22

A long-term follow-up study of cinnarizine- and flunarizine-induced parkinsonism. Negrotti A, et al. **Mov Disord** 1997 Jan;12(1):107–10

Can flunarizine induce frozen shoulder? [letter] Franck JL, et al. **Rev Rhum Engl Ed** 1996 Jun;63(6):457

[Paradoxal insomnia induced by flunarizine (letter)] Pradalier A, et al. **Therapie** 1997 Jan-Feb;52(1):81–2 **(Fre)**

METABOLISM

Oxidative metabolism of flunarizine and cinnarizine by microsomes from B-lymphoblastoid cell lines expressing human cytochrome P450 enzymes. Kariya S, et al. **Biol Pharm Bull** 1996 Nov;19(11):1511–4

PHARMACOKINETICS

A limited sampling method for the estimation of flunarizine area under the curve (AUC) and maximum plasma concentration (Cmax). Mahmood I, et al. **Biopharm Drug Dispos** 1997 Mar;18(2):117–26

PHARMACOLOGY

The effects of verapamil and flunarizine on epileptiform activity induced by bicuculline and low Mg2+ in neocortical tissue of epileptic and primary non-epileptic patients. Straub H, et al. **Brain Res** 1996 Sep 16; 733(2):307–11

Central action of cinnarizine and flunarizine: a saccadic eye movement study. Casucci G, et al. **Clin Neuropharmacol** 1994 Oct;17(5):417–22

Flunarizine, an anti-migraine agent, impairs nitroxidergic nerve function in cerebral arteries. Ayajiki K, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):49–53

Flunarizine but not theophylline modulates inotropic responses of the isolated rat heart to diazepam. Leeuwin RS, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):153–7

Mechanism of L- and T-type Ca2+ channel blockade by flunarizine in ventricular myocytes of the guinea-pig. Tytgat J, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):189–97

Diphenylpiperazines enhance regeneration after facial nerve injury. Tong JX, et al. **J Neurocytol** 1997 May;26(5):339–47

Effects of the calcium channel blockers Dotarizine and Flunarizine on cerebrovascular reactivity. Czernicki Z, et al. **J Neurol Sci** 1996 Nov;143(1-2):60–3

The effects of Na+ channel blockers on somatosensory processing by rat dorsal horn neurones. Blackburn-Munro G, et al. **Neuroreport** 1997 May 6;8(7):1549–54

Ultrastructural changes in the blood-brain barrier in rats after treatment with nimodipine and flunarizine. A comparison. Zumkeller M, et al. **Neurosurg Rev** 1996;19(4):253–60

Effects of flunarizine and nitrendipine on electroconvulsive shock- and clonidine-induced amnesia. Genkova-Papazova M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):583–7

[Changes in the blood circulation in the middle cerebral and common carotid arteries of rats under the influence of flunarizine] Semkina GA, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):28–31 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Long-term follow-up after flunarizine or nimodipine discontinuation in migraine patients. Nuti A, et al. **Cephalalgia** 1996 Aug;16(5):337–40

Post-marketing cohort study comparing the safety and efficacy of flunarizine and propranolol in the prophylaxis of migraine. Verspeelt J, et al. **Cephalalgia** 1996 Aug; 16(5):328–36; discussion 288

Prolactin response to bromocriptine in flunarizine-treated migrainous women. Cupini LM, et al. **Clin Neuropharmacol** 1997 Jun;20(3):234–8

FLUNITRAZEPAM

Flunitrazepam and its involvement in date or acquaintance rape. Anglin D, et al. **Acad Emerg Med** 1997 Apr;4(4):323–6

Photoaffinity labeling of peripheral benzodiazepine receptors in R-3327 Dunning prostatic tumors. Alenfall J, et al. **Biochem Pharmacol** 1996 Apr 26;51(8):1009–13

FLUNITRAZEPAM

Abuse liability of flunitrazepam. Woods JH, et al. **J Clin Psychopharmacol** 1997 Jun;17(3 Suppl 2):1S-57S (232 ref.)

Abuse of flunitrazepam (Rohypnol) and other benzodiazepines in Austin and south Texas. Calhoun SR, et al. **J Psychoactive Drugs** 1996 Apr-Jun;28(2):183-9

Rohypnol misuse in the United States. Saum CA, et al. **Subst Use Misuse** 1997 May;32(6):723-31

[Make flunitrazepam an A-preparation (letter)] Buer OA. **Tidsskr Nor Laegeforen** 1997 Jan 20;117(2):263 **(Nor)**

[Rohypnol, drug addicts and family physicians (letter; comment)] Vázquez Torguet A, et al. **Aten Primaria** 1997 Jun 15;20(1):57-8. Comment on: Aten Primaria 1996 Dec;18(10):539-45. **(Spa)**

ADMINISTRATION & DOSAGE

Improvement of hypertonus after treatment for sleep disturbances in three patients with severe brain damage. Tanaka H, et al. **Brain Dev** 1997 Jun;19(4):240-4

ANALOGS & DERIVATIVES

Testing human hair for flunitrazepam and 7-amino-flunitrazepam by GC/MS-NCI. Cirimele V, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):189-200

ANALYSIS

Localization of flunitrazepam in artificial membranes. A spectrophotometric study about the effect the polarity of the medium exerts on flunitrazepam acid-base equilibrium. García DA, et al. **Biochim Biophys Acta** 1997 Feb 21; 1324(1):76-84

Testing human hair for flunitrazepam and 7-amino-flunitrazepam by GC/MS-NCI. Cirimele V, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):189-200

Determination of chronic flunitrazepam abuse by hair analysis using GC-MS-NCI. Cirimele V, et al. **J Anal Toxicol** 1996 Nov-Dec;20(7):596-8

BLOOD

Simultaneous high-performance liquid chromatographic analysis of flunitrazepam and four metabolites in serum. Berthault F, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):383-7

METABOLISM

N3-phenacyluridine, a novel hypnotic compound, interacts with the benzodiazepine receptor. Kimura T, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):265-9

Simultaneous high-performance liquid chromatographic analysis of flunitrazepam and four metabolites in serum. Berthault F, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):383-7

Unsaturated free fatty acids increase benzodiazepine receptor agonist binding depending on the subunit composition of the GABAA receptor complex. Witt MR, et al. **J Neurochem** 1996 Nov;67(5):2141-5

Pharmacological characterisation of multiple components in the enhancement by pregnanolone and propofol of [3H]flunitrazepam binding to GABAA receptors. Zhong Y, et al. **Neuropharmacology** 1996;35(9-10):1193-8

Glutamate and benzodiazepine receptor autoradiography in rat brain after repetition of alcohol dependence. Ulrichsen J, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):31-41

PHARMACOKINETICS

Identification of domains in human recombinant GABAA receptors that are photoaffinity labelled by [3H]flunitrazepam and [3H]Ro15-4513. Davies M, et al. **Neuropharmacology** 1996;35(9-10):1199-208

PHARMACOLOGY

Melatonin in insomniac patients and effects of sleep medication. Rodenbeck A, et al. **Adv Exp Med Biol** 1996; 398:113-7

Ethanol, flunitrazepam, and pentobarbital modulation of GABAA receptors expressed in mammalian cells and Xenopus oocytes. Harris RA, et al. **Alcohol Clin Exp Res** 1997 May;21(3):444-51

Molecular mechanisms of benzodiazepine-induced down-regulation of GABAA receptor alpha 1 subunit protein in rat cerebellar granule cells. Brown MJ, et al. **Br J Pharmacol** 1996 Jul;118(5):1103-10

Nocturnal plasma melatonin levels after flunitrazepam administration in healthy subjects. Hajak G, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):149-53

Potentiation by ethanol of GABA-induced current and facilitation of its desensitization in cultured rat cortical neurons. Tsujiyama S, et al. **Gen Pharmacol** 1997 Mar; 28(3):375-80

Benzodiazepine effects on memory tests: dependence on retrieval cues? Pompéia S, et al. **Int Clin Psychopharmacol** 1996 Dec;11(4):229-36

Flunitrazepam has an inverse agonistic effect on recombinant alpha6beta2gamma2-GABAA receptors via a flunitrazepam-binding site. Hauser CA, et al. **J Biol Chem** 1997 May 2;272(18):11723-7

Interaction between erythromycin and the benzodiazepines diazepam and flunitrazepam. Luurila H, et al. **Pharmacol Toxicol** 1996 Feb;78(2):117-22

A comparison of the acute behavioral effects of flunitrazepam and triazolam in healthy volunteers. Farré M, et al. **Psychopharmacology (Berl)** 1996 May;125(1):1-12

[Pharmacologic analysis of phenazepam and flunitrazepam activity when administered in extremely low doses] Molodavkin GM, et al. **Biull Eksp Biol Med** 1996 Feb; 121(2):164-6 **(Rus)**

THERAPEUTIC USE

[Sedation with flunitarazepam at magnetic resonance imaging in the elderly patients with dementia] Mori S, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):7-11 (Eng. Abstr.) **(Jpn)**

URINE

Urine screening for flunitrazepam: applicability of Emit immunoassay [letter] Mørland H, et al. **Clin Chem** 1997 Jul;43(7):1245-6

Identification of urinary benzodiazepines and their metabolites: comparison of automated HPLC and GC-MS after immunoassay screening of clinical specimens. Valentine JL, et al. **J Anal Toxicol** 1996 Oct;20(6):416-24

FLUOCINOLIDE see **FLUOCINONIDE**

FLUOCINOLONE ACETONIDE

ANALOGS & DERIVATIVES

New formulation of aqueous flunisolide nasal spray in the treatment of allergic rhinitis: comparative assessment of safety, tolerability, and efficacy. Ratner P, et al. **Allergy Asthma Proc** 1996 May-Jun;17(3):149-56

Topical corticosteroid treatment of anosmia associated with nasal and sinus disease. Mott AE, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr;123(4):367-72

Allergic rhinitis in children: effects of flunisolide and disodium cromoglycate on nasal eosinophil cationic protein. Sensi LG, et al. **Clin Exp Allergy** 1997 Mar; 27(3):270-6

The effectiveness of once-daily dosing of inhaled flunisolide in maintaining asthma control. ZuWallack RL, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):278-85

Efficient delivery to the lungs of flunisolide aerosol from a new portable hand-held multidose nebulizer. Newman SP, et al. **J Pharm Sci** 1996 Sep;85(9):960-4

Nebulized flunisolide in infants and young children with asthma: a pilot study. de Benedictis FM, et al. **Pediatr Pulmonol** 1996 May;21(5):310-5

Comparison of topical silver nitrate and flunisolide treatment in patients with idiopathic non-allergic rhinitis. Erhan E, et al. **Tokai J Exp Clin Med** 1996 Jun;21(2):103-11

[Controlled clinical comparative evaluation of fluticasone powder inhalation versus flunisolide dose aerosol in patients with mild to moderate asthma] Bergmann KC. **Pneumologie** 1997 Jan;51(1):27-32 (Eng. Abstr.) **(Ger)**

[Determination of flunisolide and its principal hydrolytic metabolite in urine and plasma by LC-NICI-MS with a particle beam interface] Rauli S, et al. **Boll Chim Farm** 1997 Apr;136(4):308-15 **(Ita)**

CHEMISTRY

Solid-state investigation of fluocinolone acetonide. Bartolomei M, et al. **J Pharm Biomed Anal** 1997 Aug; 15(12):1813-20

PHARMACOLOGY

Mechanism of skin tumorigenesis by contact sensitizers: the effect of the corticosteroid fluocinolone acetonide on inflammation and tumor induction by 2,4 dinitro-1-fluorobenzene in the skin of the TG.AC (v-Ha-ras) mouse. Albert RE, et al. **Environ Health Perspect** 1996 Oct;104(10):1062-8

Drug-induced reversion of progression phenotype is accompanied by reversion of AP-1 phenotype in JB6 cells. Lavrovsky V, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr; 32(4):234-7

Resistance of transformed mouse keratinocytes to growth inhibition by glucocorticoids. Spiegelman VS, et al. **Mol Carcinog** 1997 Sep;20(1):99-107

THERAPEUTIC USE

Efficacy of topical retinoic acid compared with topical fluocinolone acetonide in the treatment of oral lichen planus. Buajeeb W, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):21-5

FLUOCINONIDE

ADMINISTRATION & DOSAGE

[The topical treatment of atrophic-erosive oral lichen planus with fluocinonide in a bioadhesive gel, chlorhexidine and miconazole gel. A totally open trial] Carbone M, et al. **Minerva Stomatol** 1996 Mar;45(3):61-8 (Eng. Abstr.) **(Ita)**

THERAPEUTIC USE

Once-daily fluocinonide-bifonazole combination for the treatment of vulvar itching and vulvovaginal candidiasis. Preliminary study. Kaplan B, et al. **Clin Exp Obstet Gynecol** 1996;23(3):173-6

Clinical pearl: discoid lupus erythematosus--treatment with occlusive compression. Maggio KL, et al. **J Am Acad Dermatol** 1996 Oct;35(4):627-8

FLUOCORTOLONE

ADVERSE EFFECTS

[Generalized Mycobacterium avium-intracellulare infection due to immunosuppressive therapy of paraneoplastic dermatomyositis] Schaller M, et al. **Hautarzt** 1997 Feb; 48(2):118-21 (Eng. Abstr.) **(Ger)**

ANALOGS & DERIVATIVES

Double-blind study of prednicarbate versus fluocortin butyl ester in atopic dermatitis. Aliaga A, et al. **Int J Dermatol** 1996 Feb;35(2):131-2

THERAPEUTIC USE

Evaluation of the efficacy and toxicity of the cyclosporine A-flucortolone-methotrexate combination in the treatment of sarcoidosis. Pia G, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Sep;13(2):146-52

FLUOCORTOLONE CAPROATE see **FLUOCORTOLONE**

FLUOCORTOLONE PIVALATE see **FLUOCORTOLONE**

FLUON see **POLYTETRAFLUOROETHYLENE**

FLURENES

Enantioselective determination of selfotel in human urine by high-performance liquid chromatography on a chiral stationary phase after derivatization with 9-fluorenylmethyl chloroformate. Knoche B, et al. **J Chromatogr B Biomed Sci Appl** 1997 Aug 1;695(2):355-63

ANALYSIS

Formation of glutathione adducts and 2-aminofluorene from 2-nitrosofluorene in postimplantation rat conceptuses in vitro. Berberian RM, et al. **Reprod Toxicol** 1996 Jul-Aug; 10(4):273-84

BLOOD

Determination of a new antimalarial drug, benflumetol, in blood plasma by high-performance liquid chromatography. Mansor SM, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):321-5

Determination of benflumetol in human plasma by reversed-phase high-performance liquid chromatography with ultraviolet detection. Zeng MY, et al. **J Chromatogr B Biomed Appl** 1996 Jun 7;681(2):299-306

CHEMICAL SYNTHESIS

Synthesis of the very acid-sensitive Fmoc-Cys(Mmt)-OH and its application in solid-phase peptide synthesis. Barlos K, et al. **Int J Pept Protein Res** 1996 Mar;47(3):148-53

CHEMISTRY

Two P21/n monoclinic phases of fluorene-4-carboxylic acid at 296 K. Blackburn AC, et al. **Acta Crystallogr C** 1996 Jun 15;52 (Pt 6):1482-6

Synthesis of the very acid-sensitive Fmoc-Cys(Mmt)-OH and its application in solid-phase peptide synthesis. Barlos K, et al. **Int J Pept Protein Res** 1996 Mar;47(3):148-53

Investigation on enantiomeric separations of fluorenylmethoxycarbonyl amino acids and peptides by high-performance liquid chromatography using native cyclodextrins as chiral stationary phases. Tang Y, et al. **J Chromatogr A** 1996 Sep 6;743(2):261-71

Determination of amphetamine and related compounds in urine using on-line derivatization in octadecyl silica columns with 9-fluorenylmethyl chloroformate and liquid chromatography. Herráez-Hernández R, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):69-78

Study of the biotransformation of a potential benzo[c]fluorene antineoplastic using high-performance liquid chromatography with high-speed-scanning ultraviolet detection. Nobilis M, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):143-51

Use of Fmoc-N-(2-hydroxy-4-methoxybenzyl)amino acids in peptide synthesis. Zeng W, et al. **J Pept Res** 1997 Mar; 49(3):273-9

Solid-phase synthesis of neuropeptides by Fmoc strategies. Kowalczyk C, et al. **Methods Mol Biol** 1997;73:41-8

Novel N omega-xanthenyl-protecting groups for asparagine and glutamine, and applications to N alpha-9-fluorenylmethyloxycarbonyl (Fmoc) solid-phase peptide synthesis. Han Y, et al. **Pept Res** 1996 Jul-Aug; 9(4):166-73

Intramolecular pyrophosphate formation during N alpha-9-fluorenylmethyloxycarbonyl (Fmoc) solid-phase synthesis of peptides containing adjacent phosphotyrosine residues. Ottinger EA, et al. **Pept Res** 1996 Sep-Oct; 9(5):223-8

Large-pore polydimethylacrylamide resin for solid-phase

peptide synthesis: applications in Fmoc chemistry. Sparrow JT, et al. **Pept Res** 1996 Nov–Dec;9(6):297–304

METABOLISM

New metabolites in the degradation of fluorene by Arthrobacter sp. strain F101. Casellas M, et al. **Appl Environ Microbiol** 1997 Mar;63(3):819–26

Further metabolism of 2-formylaminofluorene, a metabolite of 2-aminofluorene, in rats. Ueda O, et al. **Biol Pharm Bull** 1996 Feb;19(2):330–3

Mammary carcinogenicity of diol epoxide metabolites of benzo[j]fluoranthene in female CD rats. Hecht SS, et al. **Cancer Lett** 1996 Sep 10;106(2):251–5

Earthworm and food interactions on bioaccumulation and disappearance in soil of polycyclic aromatic hydrocarbons: studies on phenanthrene and fluoranthene. Ma WC, et al. **Ecotoxicol Environ Saf** 1995 Dec;32(3):226–32

Characterization of fluoranthene- and pyrene-degrading Mycobacterium-like strains by RAPD and SSU sequencing. Lloyd-Jones G, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):51–6

Cellular strategies for accommodating replication-hindering adducts in DNA: control by the SOS response in Escherichia coli. Koffel-Schwartz N, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7805–10

Evidence for arylamine N-acetyltransferase activity in the bacterium Helicobacter pylori. Chung JG, et al. **Toxicol Lett** 1997 Mar 14;91(1):63–71

PHARMACOKINETICS

Effect of ovariectomy on the in vitro and in vivo activation of carcinogenic N-2-fluorenylhydroxamic acids by rat mammary gland and liver. Ritter CL, et al. **Carcinogenesis** 1996 Nov;17(11):2411–8

Study of the biotransformation of a potential benzo[c]fluorene antineoplastic using high-performance liquid chromatography with high-speed-scanning ultraviolet detection. Nobilis M, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):143–51

Bioactivation of promutagens by the unicellular green alga Chlamydomonas reinhardtii. Podstavková S, et al. **J Environ Pathol Toxicol Oncol** 1997;16(1):21–6

PHARMACOLOGY

Attenuation of diet-induced atherosclerosis in rabbits with a highly selective 15-lipoxygenase inhibitor lacking significant antioxidant properties. Sendobry SM, et al. **Br J Pharmacol** 1997 Apr;120(7):1199–206

The membrane effect of benfluron: modulation of the heart sarcolemmal (Na+, K+)-ATPase and Mg(2+)-ATPase activities. Džurba A, et al. **Gen Physiol Biophys** 1996 Feb; 15(1):71–5

Mutagenicity of the atmospheric transformation products 2-nitrofluoranthene and 2-nitrodibenzopyranone in Salmonella and human cell forward mutation assays. Busby WF Jr, et al. **Mutat Res** 1997 Mar 17;389(2–3):261–70

2-Aminofluorene-DNA adduct levels in tumor-target and nontarget organs of rapid and slow acetylator Syrian hamsters congenic at the NAT2 locus. Feng Y, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):248–55

[The genetic activity of superlow doses of antitumor antibiotics and 2-nitrofluorene: the ecological aspects of the problem] Vasil'eva SV, et al. **Izv Akad Nauk Ser Biol** 1996 Nov–Dec;(6):676–80 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Delayed adjuvant therapy with the 21-aminosteroid U74006F and the anion channel blocker L644-711 does not improve outcome following thrombolytic therapy in a rabbit model of thromboembolic stroke. Gross CE, et al. **Surg Neurol** 1997 Jan;47(1):60–5; discussion 66–7

TOXICITY

Photoinduced toxicity of fluoranthene to seven marine benthic crustaceans. Boese BL, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):389–93

Lysosomal storage of sulfated glycosaminoglycans induced by two bis-aminomethyl anthrachinones. Fischer J, et al. **Arch Toxicol** 1996;70(6):373–9

Mechanisms of frameshift mutations: insight from aromatic amines. Hoffmann GR, et al. **Chem Res Toxicol** 1997 Apr; 10(4):347–59

Variation in the response of T cells to concanavalin A after in vitro exposure to benzo[A]pyrene and 2-aminofluorene. Lee M, et al. **Immunopharmacol Immunotoxicol** 1996 May; 18(2):309–21

Assessment of the potential in vivo genotoxicity of fluoranthene. Stocker KJ, et al. **Mutagenesis** 1996 Sep; 11(5):493–6

Genotoxic and chronic toxic effects in the carcinogenicity of aromatic amines. Bitsch A, et al. **Recent Results Cancer Res** 1997;143:209–23

Metabolic and genotoxic interactions of 2-aminofluorene and 2,4-diaminotoluene. Pan YH, et al. **Toxicol Lett** 1997 Mar 14;91(1):73–82

FLUOREN-2-YLACETAMIDE see **2-ACETYLAMINOFLUORENE**

FLUORESCAMINE

Variations in pigment and carbohydrate content of gallbladder bile affect accurate quantitation of total protein when using the fluorescamine method. Ginanni Corradini S, et al. **Scand J Gastroenterol** 1997 Apr;32(4):340–9

FLUORESCEIN ANGIOGRAPHY

ICG videoangiography of occult choroidal neovascularization in age-related macular degeneration. Atmaca LS, et al. **Acta Ophthalmol Scand** 1997 Feb; 75(1):44–7

Precise correlation of histopathological and fluorescein angiographic morphology using retinal vascular casting. Bek T, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):547–52

Funduscopy versus photographic assessment of cytomegalovirus retinitis progression: a clinician's perspective. Migdal C. **AIDS** 1996 Dec;10 Suppl 4:S19–23 (4 ref.)

Indocyanine green videoangiography after acute retinal pigment epithelial tears in age-related macular degeneration. Arroyo JG, et al. **Am J Ophthalmol** 1997 Mar;123(3):377–85

Indocyanine green angiography-guided photocoagulation of choroidal neovascularization associated with retinal pigment epithelial detachment. Lim JI, et al. **Am J Ophthalmol** 1997 Apr;123(4):524–32

Indocyanine green angiography of the peripapillary region in glaucomatous eyes by confocal scanning laser ophthalmoscopy. O'Brart DP, et al. **Am J Ophthalmol** 1997 May;123(5):657–66

Indocyanine green angiography of retrobulbar vascular structures in severe myopia. Ohno-Matsui K, et al. **Am J Ophthalmol** 1997 Apr;123(4):494–505

Indocyanine green angiographic features of pathologic myopia. Quaranta M, et al. **Am J Ophthalmol** 1996 Nov; 122(5):663–71

Fluorescein angiography of peripheral retina and pars plana during vitrectomy for proliferative diabetic retinopathy. Terasaki H, et al. **Am J Ophthalmol** 1997 Mar;123(3):370–6

Diagnostic indocyanine green angiography in preeclampsia. Valluri S, et al. **Am J Ophthalmol** 1996 Nov;122(5):672–7

Multiple evanescent white dot syndrome--an uncommon cause for an enlarged blind spot. Fong KS, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):866–8 (13 ref.)

In vivo fundus autofluorescence in macular dystrophies. von Rückmann A, et al. **Arch Ophthalmol** 1997 May; 115(5):609–15

Perimetric and angiographic effects of retinotomy. Bourke RD, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):245–9

Digital indocyanine green angiography in chorioretinal diseases. Yang CS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Dec;56(6):411–7

The microvasculature in myeloproliferative disease. A study using retinal fluorescein angiography. Dapling RB, et al. **Clin Lab Haematol** 1996 Dec;18(4):277–9

An image-processing strategy for the segmentation and quantification of microaneurysms in fluorescein angiograms of the ocular fundus. Spencer T, et al. **Comput Biomed Res** 1996 Aug;29(4):284–302

Angiographic abnormalities of experimental autoimmune uveoretinitis. Howe LJ, et al. **Curr Eye Res** 1996 Dec; 15(12):1149–55

Diabetic retinopathy assessed by fundus photography in Pima Indians with impaired glucose tolerance and NIDDM. Nagi DK, et al. **Diabet Med** 1997 Jun;14(6):449–56

Indocyanine green angiography in serpiginous choroidopathy. Giovannini A, et al. **Eur J Ophthalmol** 1996 Jul–Sep;6(3):299–306

Exploration of Vogt-Koyanagi-Harada syndrome by infrared choroidal angiography with indocyanine green. Harada T, et al. **Eur J Ophthalmol** 1997 Apr–Jun; 7(2):163–70

Computer assisted image analysis using the subtraction method in indocyanine green angiography. Miki T, et al. **Eur J Ophthalmol** 1996 Jan–Mar;6(1):30–8

Study of choroidal blood flow by comparison of SLO fluorescein angiography and microspheres. Duijm HF, et al. **Exp Eye Res** 1996 Dec;63(6):693–704

Vitreous laser absorption following fluorescein angiography in diabetic patients. Azzolini C, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234(8):488–92

Indocyanine green angiography in choroidal osteoma. Lafaut BA, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 May; 235(5):330–7

Fluorescein angiography in posterior uveitis. De Laey JJ. **Int Ophthalmol Clin** 1995 Summer;35(3):33–58 (41 ref.)

Role of indocyanine green fluorescence videoangiography in evaluation of subretinal disease. Lampariello DA, et al. **J Am Optom Assoc** 1997 Jun;68(6):343–52

Directly visualized cerebral circulation during retrograde cerebral perfusion. Yoshimura N, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):553–6

Fluorescein angiography and ultrasonography of malignant intraocular medulloepithelioma. Shields JA, et al. **J Pediatr Ophthalmol Strabismus** 1996 May–Jun; 33(3):193–6

Angiographic findings in eyes with active ocular toxoplasmosis. Iijima H, et al. **Jpn J Ophthalmol** 1995; 39(4):402–10

Indocyanine green angiography of a laser-induced retinal-choroidal venous anastomosis. Cohen SM. **Ophthalmic Surg Lasers** 1997 Jan;28(1):65–6

Endoscopic fluorescein angiography of the ciliary body in glaucoma management. Uram M. **Ophthalmic Surg Lasers** 1996 Mar;27(3):174–8

Indocyanine green angiography of acute multifocal posterior placoid pigment epitheliopathy. Park D, et al. **Ophthalmology** 1995 Dec;102(12):1877–83

Indocyanine green angiography and choroidal neovascularization obscured by hemorrhage. Reichel E, et al. **Ophthalmology** 1995 Dec;102(12):1871–6

Ophthalmic fluorescein angiography. Cavallerano AA. **Optom Clin** 1996;5(1):1–23 (46 ref.)

Use of protective filters by fluorescein angiography nursing staff. Virgili G, et al. **Optom Vis Sci** 1996 Jan;73(1):65

Multiple posttraumatic choroidal ruptures obscured by hemorrhage: imaging with indocyanine green angiography. Baltatzis S, et al. **Retina** 1997;17(4):352–4

Choroidal findings in the course of idiopathic serous pigment epithelium detachment detected by indocyanine green videoangiography. Giovannini A, et al. **Retina** 1997; 17(4):286–93

Indocyanine green angiographic aspects of multiple evanescent white dot syndrome. Obana A, et al. **Retina** 1996;16(2):97–104

Fluorescein angiography in the progressive outer retinal necrosis syndrome. Walton RC, et al. **Retina** 1996; 16(5):393–8

Fluorescein angiographic evaluation of the effect of latanoprost treatment on blood-retinal barrier integrity: a review of studies conducted on pseudophakic glaucoma patients and on phakic and aphakic monkeys. Hoyng PF, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S83–8 (33 ref.)

[The role of angiography in age-related macular degeneration] Bischoff P, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):296–8 (Eng. Abstr.) **(Ger)**

[Cavernous hemangioma of the optic papilla: clinical and echographic findings] Irene R, et al. **Klin Monatsbl Augenheilkd** 1996 Dec;209(6):380–2 (Eng. Abstr.) **(Ger)**

[Fluorescence angiography in age-related macular degeneration. Study of the incidence of lesions treatable with coagulation] Pauleikhoff D, et al. **Klin Monatsbl Augenheilkd** 1996 Nov;209(5):309–14 (Eng. Abstr.) **(Ger)**

[Quantification of cystoid changes in diabetic macular edema] Solbach U, et al. **Klin Monatsbl Augenheilkd** 1996 Dec; 209(6):358–61 (Eng. Abstr.) **(Ger)**

[Confocal scanning laser indocyanine green angiography of classical choroid neovascularization] Dithmar S, et al. **Ophthalmologe** 1997 May;94(5):343–7 (Eng. Abstr.) **(Ger)**

[Observations of different presentations of choroid neovascularization in indocyanine green angiography] Schilling H, et al. **Ophthalmologe** 1996 Dec;93(6):703–8 (Eng. Abstr.) **(Ger)**

[Risk factors and clinical fluorescein angiography findings in anterior ischemic optic neuropathy] Spraul CW, et al. **Ophthalmologe** 1996 Aug;93(4):354–60 (Eng. Abstr.) **(Ger)**

[Indocyanine green angiography in Stargardt's disease] Hirano K, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr; 101(4):327–34 (Eng. Abstr.) **(Jpn)**

[Choroidal vascular lesions in serous retinal detachment viewed with indocyanine green angiography] Iida T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Oct;100(10):817–24 (Eng. Abstr.) **(Jpn)**

[Indocyanine green infrared fluorescence angiography and vascular cast--preparation in experimental choroidal circulatory disturbance] Matsunaga H, et al. **Nippon Ganka Gakkai Zasshi** 1996 Mar;100(3):201–7 (Eng. Abstr.) **(Jpn)**

[Indocyanine green infrared fluorescence angiography and histopathological correlation in experimental choroidal circulatory disturbance. Report 2] Matsunaga H, et al. **Nippon Ganka Gakkai Zasshi** 1997 Feb;101(2):127–33 (Eng. Abstr.) **(Jpn)**

[Indocyanine green infrared fluorescence angiography and histopathological correlation in experimental choroidal circulatory disturbance. Report 1] Matsunaga H, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan;101(1):12–8 (Eng. Abstr.) **(Jpn)**

[Comparison between indocyanine green angiography and histopathological observations of choroidal neovascular membrane in age-related macular degeneration] Nakajima M, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jul; 101(7):584–92 (Eng. Abstr.) **(Jpn)**

[Study of choroidal vascular lesions in central serous chorioretinopathy using indocyanine green angiography] Okushiba U, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan; 101(1):74–82 (Eng. Abstr.) **(Jpn)**

[A study of serum protein fraction binding to indocyanine green (ICG) by combined method of immunoelectrophoresis and ICG fundus videosystem] Saito T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Aug; 100(8):617–23 (Eng. Abstr.) **(Jpn)**

[Measurement of retinal circulation] Konno S, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:446–9 (14 ref.) **(Jpn)**

[The effect of angiography with disodium fluorescein on the hemorheologic parameters of diabetics] Sargento L, et al. **Acta Med Port** 1996 Oct–Dec;9(10–12):303–7 (Eng. Abstr.)

FLUORESCEIN ANGIOGRAPHY

(Por)

ADVERSE EFFECTS

Fluorescent venogram? an interesting side effect of fluorescein angiography [letter] Kulshrestha MK, et al. **Eye** 1996;10 (Pt 1):146

INSTRUMENTATION

Retino-choroidal oxygen imaging through a fundus camera. Blumenröder S, et al. **Adv Exp Med Biol** 1996;388:35-9

Filtering properties of an adaptive trend operator and the application for determining the arterial blood velocity in retinal vessels. Barešová E, et al. **Med Prog Technol** 1995-96;21(3):123-34

Stereoscopic digital fluorescein and indocyanine green videoangiography. Klein ML, et al. **Retina** 1997; 17(4):359-60

[Digital fluorescein angiography in follow-up of the clinical course in therapy of patients with central vein occlusion and cystoid macular edema] Arend O, et al. **Klin Monatsbl Augenheilkd** 1996 Aug-Sep;209(2-3):163-70 (Eng. Abstr.) (Ger)

[Fluorescence angiography of the anterior eye segment in severe eye chemical burns] Kuckelkorn R, et al. **Klin Monatsbl Augenheilkd** 1996 Aug-Sep;209(2-3):109-13 (Eng. Abstr.) (Ger)

[Simultaneous fluorescein and indocyanine green angiography with a confocal laser ophthalmoscope] Holz FG, et al. **Ophthalmologe** 1997 May;94(5):348-53 (Eng. Abstr.) (Ger)

[Development of rotational digital angiography system and new cone-beam 3 D CT] Kumazaki T. **Nippon Ika Daigaku Zasshi** 1997 Feb;64(1):57-60 (6 ref.) (Jpn)

METHODS

Indocyanine green angiography in angioid streaks. Pece A, et al. **Acta Ophthalmol Scand** 1997 Jun;75(3):261-5

Retino-choroidal oxygen imaging through a fundus camera. Blumenröder S, et al. **Adv Exp Med Biol** 1996;388:35-9

Peripapillary fluorescein angiographic findings in primary open angle glaucoma. Yamazaki S, et al. **Br J Ophthalmol** 1996 Sep;80(9):812-7

Fluorescence endoscopic imaging study of anastomotic recurrence of Crohn's disease. Maunoury V, et al. **Gastrointest Endosc** 1996 Jun;43(6):603-4

Indocyanine-green angiography in patients with occult choroidal neovascularization. Wolf S, et al. **Ger J Ophthalmol** 1996 Sep;5(5):251-6

Identification of individual microaneurysms: a comparison between fluorescein angiograms and red-free and colour photographs. Hellstedt T, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S13-7

Scanning laser ophthalmoscope imaging of fluorescein-labelled blood cells. Le Gargasson JF, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jan;235(1):56-8

Assessment of visual function in choroidal neovascularization with scanning laser microperimetry and simultaneous indocyanine green angiography. Schneider U, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Oct;234(10):612-7

Visualization of retinal and choroidal blood flow with fluorescein leukocyte angiography in rabbits. Yang Y, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jan; 235(1):27-31

Dermofluorography as a possibility for therapeutic control following sympathectomy. Böhler U, et al. **Int J Microcirc Clin Exp** 1996 Jul-Aug;16(4):195-7

Indocyanine green angiographic findings in idiopathic choroidal neovascularization. Giovannini A, et al. **Int Ophthalmol** 1996-97;20(4):171-9

Indocyanine green angiography in the juvenile haemorrhagic choroidopathy. Pece A, et al. **Int Ophthalmol** 1995-96; 19(4):211-7

Hypofluorescent spots in indocyanine green angiography of peau d'orange and fundus. Shiraki K, et al. **Int Ophthalmol** 1997;21(1):43-50

Visualization of leukocyte dynamics in the choroid with indocyanine green. Matsuda N, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2228-33

The adjustable globe: a technique for adjustable strabismus surgery. Connor TB, et al. **J Pediatr Ophthalmol Strabismus** 1996 May-Jun; 33(3):156-63

Indocyanine green angiography of idiopathic polypoidal choroidal vasculopathy. Phillips WB 2nd, et al. **Ophthalmic Surg Lasers** 1996 Jun;27(6):467-70

Endoscopic fluorescein angiography. Uram M. **Ophthalmic Surg Lasers** 1996 Oct;27(10):849-55

Indocyanine green angiography in vitelliform macular lesions. Lanzetta P, et al. **Ophthalmologica** 1996; 210(4):189-94

Indocyanine green videoangiography of hemorrhagic retinal arterial macroaneurysms. Schneider U, et al. **Ophthalmologica** 1997;211(2):115-8

Classification of choroidal neovascularization by digital indocyanine green videoangiography. Guyer DR, et al. **Ophthalmology** 1996 Dec;103(12):2054-60

Fluorescent dots in fluorescein angiography and fluorescein leukocyte angiography using a scanning laser ophthalmoscope in humans. Yang Y, et al. **Ophthalmology** 1997 Oct;104(10):1670-6

Indocyanine green angiographic evaluation of retinal pigment epithelial tears. Colucciello M, et al. **Retina** 1997;17(1):23-7

Early versus late staining of microaneurysms in fluorescein angiography. Jalli PY, et al. **Retina** 1997;17(3):211-5

Iris fluorescein angiography in clinical practice. Brancato R, et al. **Surv Ophthalmol** 1997 Jul-Aug;42(1):41-70 (417 ref.)

[Angiography by scanning laser ophthalmoscope with fluorescein compounds of different physicochemical properties] Mori K, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr;101(4):318-26 (Eng. Abstr.) (Jpn)

FLUORESCEIN-5-ISOTHIOCYANATE

A double fluorescence staining protocol to determine the cross-sectional area of myofibers using image analysis. Mozdziak PE, et al. **Biotech Histochem** 1996 Mar; 71(2):102-7

Use of selective binding of fluorescein isothiocyanate to detect eosinophils by flow cytometry [letter] Efthimiadis A, et al. **Cytometry** 1996 Mar 15;26(1):75-6

Immune response to different doses of a hapten of fluorescein isothiocyanate analyzed by two-dimensional affinity electrophoresis. Wang P, et al. **Electrophoresis** 1996 Jul; 17(7):1273-9

Differences in phycoerythrin- or fluorescein-isothiocyanate conjugated 8G12 on CD34+ cell evaluation. Ortuño F, et al. **Haematologica** 1997 May-Jun;82(3):334-5

The use of flow cytometry and fluorescein-labeled antibodies to measure specific milk proteins in bovine mammary epithelial cells. Keys JE, et al. **In Vitro Cell Dev Biol Anim** 1997 Mar;33(3):201-5

Is cysteine residue important in FITC-sensitive ATP-binding site of P-type ATPases? A commentary tc the state of the art. Breier A, et al. **Mol Cell Biochem** 1996 Jul-Aug; 160-161:89-93 (30 ref.)

ADVERSE EFFECTS

UVB irradiation decreases the magnitude of the Th1 response to hapten but does not increase the Th2 response. Saijo S, et al. **Photodermatol Photoimmunol Photomed** 1996 Aug; 12(4):145-53

ANALOGS & DERIVATIVES

Diffusion of fluorescently labeled macromolecules in cultured muscle cells. Arrio-Dupont M, et al. **Biophys J** 1996 May; 70(5):2327-32

L-arginine does not reverse impaired agonist-induced increases in macromolecular efflux during diabetes mellitus. Mayhan WG. **Cardiovasc Res** 1997 Apr;34(1):215-22

Fluorescence analysis of carrier rat and human erythrocytes loaded with FITC-dextran. Alvarez FJ, et al. **Cytometry** 1996 Jun 1;24(2):181-9

Measurement of antibody-antigen dissociation constants using fast capillary electrophoresis with laser-induced fluorescence detection. Tao L, et al. **Electrophoresis** 1997 Jan;18(1):112-7

Detection of human sperm acrosome reaction: comparison between methods using double staining, Pisum sativum agglutinin, concanavalin A and transmission electron microscopy. Köhn FM, et al. **Hum Reprod** 1997 Apr; 12(4):714-21

Molecular weight-dependent lymphatic transfer of fluorescein isothiocyanate-labeled dextrans after intrapulmonary administration and effects of various absorption enhancers on the lymphatic transfer of drugs in rats. Hanatani K, et al. **J Drug Target** 1995;3(4):263-71

Size-dependent dextran transport across rat alveolar epithelial cell monolayers. Matsukawa Y, et al. **J Pharm Sci** 1997 Mar;86(3):305-9

Evidence for hapten recognition in receptor-mediated intracellular uptake of a hapten-protein conjugate by murine macrophage. Cherukuri A, et al. **Mol Immunol** 1997 Jan;34(1):21-32

The application of pH-sensitive fluorescent dyes in lactic acid bacteria reveals distinct extrusion systems for unmodified and conjugated dyes. Glaasker E, et al. **Mol Membr Biol** 1996 Jul-Sep;13(3):173-81

When vitreous enters the subretinal space. Implications for subretinal fluid protein. Takeuchi A, et al. **Retina** 1996; 16(5):426-30

CHEMISTRY

Centrifugation on Percoll gradient enhances fluorescent lectin binding on human sperm: a flow cytometric analysis. De Maistre E, et al. **Arch Androl** 1996 Nov-Dec; 37(3):179-87

Quantification of apoptotic cells with fluorescein isothiocyanate-labeled annexin V in chinese hamster ovary cell cultures treated with cisplatin. Boersma AW, et al. **Cytometry** 1996 Jun 1;24(2):123-30

Flow cytometric HLA-B27 typing using CD3 gating and molecules of equivalent soluble fluorochrome (MESF) quantitation. Chen JC, et al. **Cytometry** 1996 Dec 15; 26(4):286-92

One-tube triple staining method for flow cytometric analysis of DNA ploidy and phenotypic heterogeneity of human solid tumors using single laser excitation. Corver WE, et al. **Cytometry** 1996 Dec 1;25(4):358-66

Double fluorescent flow cytometric assessment of bacterial internalization and binding by epithelial cells. de Boer EC, et al. **Cytometry** 1996 Dec 1;25(4):381-7

Analysis of fluorescence lifetime and quenching of FITC-conjugated antibodies on cells by phase-sensitive flow cytometry. Deka C, et al. **Cytometry** 1996 Nov 1; 25(3):271-9

Observation of single-cell fluorescence spectra in laser flow cytometry. Gauci MR, et al. **Cytometry** 1996 Dec 1; 25(4):388-93

Peripheral blood lymphocyte binding to a soluble FITC-fibronectin conjugate. Pallis M, et al. **Cytometry** 1997 Jun 1;28(2):157-64

Flow cytometric analysis of gelatinase B (MMP-9) activity using immobilized fluorescent substrate on microspheres. St-Pierre Y, et al. **Cytometry** 1996 Dec 1;25(4):374-80

A novel assay to measure loss of plasma membrane asymmetry during apoptosis of adherent cells in culture. van Engeland M, et al. **Cytometry** 1996 Jun 1;24(2):131-9

Detection of the receptor for the human urokinase-type plasminogen activator using fluoresceinated uPA. Ciccocioppo R, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1307-13

Double coupling Edman chemistry for high-sensitivity automated protein sequencing. Ireland ID, et al. **J Protein Chem** 1997 Jul;16(5):491-3

Measurement of glycoprotein IIb/IIIa blockade by flow cytometry with fluorescein isothiocyanate-conjugated crotavirin, a member of disintegrins. Liu CZ, et al. **Thromb Haemost** 1996 Oct;76(4):585-91

[The use of selective chemical modification of cytochrome P450scc (CYPXIA1) with fluorescein isothiocyanate for evaluation of intramolecular distances and conformational changes by fluorescent resonance energy transfer] Lepesheva GI, et al. **Biokhimiia** 1996 Aug;61(8):1395-407 (Eng. Abstr.) (Rus)

DIAGNOSTIC USE

A highly sensitive model for quantification of in vivo tumor angiogenesis induced by alginate-encapsulated tumor cells. Hoffmann J, et al. **Cancer Res** 1997 Sep 1;57(17):3847-51

METABOLISM

Stoichiometry of phosphorylation to fluorescein 5-isothiocyanate binding in the Ca2+-ATPase of sarcoplasmic reticulum vesicles. Nakamura S, et al. **J Biol Chem** 1997 Mar 7;272(10):6232-7

PHARMACOKINETICS

Effects of protease inhibitors on the absorption of phenol red and fluorescein isothiocyanate dextrans from the rat intestine. Gotoh S, et al. **J Pharm Sci** 1996 Aug; 85(8):858-62

Transport of drugs across the Xenopus pulmonary membrane and their absorption enhancement by various absorption enhancers. Okumura S, et al. **Pharm Res** 1996 Aug; 13(8):1247-51

PHARMACOLOGY

Redirecting circulating antibodies via ligand-hapten conjugates eliminates target cells in vivo. Lussow AR, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jul; 19(4):257-65

TOXICITY

Influence of dibutyl phthalate on dermal sensitization to fluorescein isothiocyanate. Dearman RJ, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):24-30

FLUORESCEINS

A simple, fluorescent method to internally label platelets suitable for physiological measurements. Baker GR, et al. **Am J Hematol** 1997 Sep;56(1):17-25

Ranking of P-glycoprotein substrates and inhibitors by a calcein-AM fluorometry screening assay. Tiberghien F, et al. **Anticancer Drugs** 1996 Jul;7(5):568-78

Effects of secondary forces on the ligand binding and conformational state of antifluorescein monoclonal antibody 9-40. Mummert ME, et al. **Biochemistry** 1997 Sep 30;36(39):11918-22

The use of calcein acetomethylester (AM)-labelled polymorphonuclear cells in a polycarbonate filter chemotaxis assay. De Gendt CM, et al. **Clin Chim Acta** 1996 May 30;249(1-2):189-95

Confocal imaging of the keratocyte network in porcine cornea using the fixable vital dye 5-chloromethylfluorescein diacetate. Poole CA, et al. **Curr Eye Res** 1996 Feb;15(2):165-74

High-resolution capillary array electrophoretic sizing of multiplexed short tandem repeat loci using energy-transfer fluorescent primers. Wang Y, et al. **Electrophoresis** 1996 Sep;17(9):1485-90

Novel fluorescein-based flow-cytometric method for detection of lipid peroxidation. Makrigiorgos GM, et al. **Free Radic Biol Med** 1997;22(1-2):93-100

Gene family use and somatic mutation in primary and secondary fluorescein-specific IgM antibody responses. Van der Keyl H, et al. **Immunol Cell Biol** 1996 Jun; 74(3):245-54

Ratiometric measurement of intracellular pH of cultured cells with BCECF in a fluorescence multi-well plate reader.

Grant RL, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr; 33(4):256–60

Application of an eosin B dye method for estimating a wide range of proteins. Waheed AA, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):187–96

Particle concentration fluorescence as an alternative to radioactivity for cytokine receptor binding assays. Sarubbi E. **J Immunol Methods** 1996 Nov 13;198(2):113–8

Dual staining assessment of Schwann cell viability within whole peripheral nerves using calcein–AM and ethidium homodimer. Decherchi P, et al. **J Neurosci Methods** 1997 Feb;71(2):205–13

Labeling of oligonucleotides with fluorescein. Chadwick PM, et al. **Mol Biotechnol** 1997 Jun;7(3):299–301

Construction, properties and specific fluorescent labeling of a bovine prothrombin mutant engineered with a free C–terminal cysteine. Chen Q, et al. **Protein Eng** 1996 Jun; 9(6):545–53

[Control of photocoagulation intensity by thermo–induced release of a fluorescent marker encapsulated in liposomes: study of an in vivo vascular model] Desmettre T, et al. **J Fr Ophtalmol** 1996;19(11):667–78 (Eng. Abstr.) **(Fre)**

[Selective chemical modification of cytochrome P450scc (CYP11A1) with diiodofluorescein iodoacetamide in the study of the role and topology of interdomain hinge of the hemoprotein molecule] Chernogolov AA, et al. **Biokhimiia** 1996 Dec;61(12):2103–15 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Size–dependent release of carboxyfluorescein from cetylmannoside–modified liposomes in human plasma. Ferdous AJ, et al. **Biopharm Drug Dispos** 1996 Mar; 17(2):145–54

Osteotropic drug delivery system (ODDS) based on bisphosphonic prodrug. I: synthesis and in vivo characterization of osteotropic carboxyfluorescein. Fujisaki J, et al. **J Drug Target** 1995;3(4):273–82

Thermal damage assessment of blood vessels in a hamster skin flap model by fluorescence measurement of a liposome–dye system. Mordon S, et al. **Lasers Surg Med** 1997;20(2):131–41

Effect of consecutively applied fluorescein eye drops on corneal and aqueous concentrations of fluorescein. Lindén C, et al. **Ophthalmic Res** 1997;29(2):57–60

ADVERSE EFFECTS

Phototoxic reactions caused by sodium fluorescein. Danis RP, et al. **Am J Ophthalmol** 1997 May;123(5):694–6

Photosensitivity reaction to intravenously administered fluorescein. Lentner A, et al. **Photodermatol Photoimmunol Photomed** 1995 Aug; 11(4):178–9 (21 ref.)

[Anaphylactic shock caused by application of fluorescein on the ocular conjunctiva] el Harrar N, et al. **Presse Med** 1996 Oct 26;25(32):1546–7 (Eng. Abstr.) **(Fre)**

[Apropos of anaphylactic shock caused by application of fluorescein on the ocular conjunctiva (letter)] Moneret–Vautrin DA. **Presse Med** 1997 Mar 22;26(9):420 **(Fre)**

ANALYSIS

Effects of glutathione and pH on the oxidation of biomarkers of cellular oxidative stress. Zhu H, et al. **Arch Toxicol** 1996; 70(10):628–34

CHEMICAL SYNTHESIS

Preparation of succinimidyl and pentafluorophenyl active esters of 5– and 6–carboxyfluorescein. Adamczyk M, et al. **Bioconjug Chem** 1997 Mar–Apr;8(2):253–5

Production and characterization of recombinant human plasminogen(S741C–fluorescein). A novel approach to study zymogen activation without generation of active protease. Horrevoets AJG, et al. **J Biol Chem** 1997 Jan 24;272(4):2176–82

CHEMISTRY

Estimation of protein using eosin B dye. Waheed AA, et al. **Anal Biochem** 1996 Jan 15;233(2):249–52

Patterned staining by fluorescein–labeled oligonucleotides obtained by in vitro selection. Kawazoe N, et al. **Anal Chem** 1996 Dec 15;68(24):4309–11

Fluorescein–conjugated lysine monomers for solid phase synthesis of fluorescent peptides and PNA oligomers. Lohse J, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):503–9

Influence of the triplet excited state on the photobleaching kinetics of fluorescein in microscopy. Song L, et al. **Biophys J** 1996 Jun;70(6):2959–68

Influence of fluorochrome labeling density on the photobleaching kinetics of fluorescein in microscopy. Song L, et al. **Cytometry** 1997 Mar 1;27(3):213–23

The antioxidant Trolox enhances the oxidation of 2',7'–dichlorofluorescin to 2',7'–dichlorofluorescein. Kalinich JF, et al. **Free Radic Res** 1997 Jan;26(1):37–47

Improved visualization of F–actin in the green alga Acetabularia by microwave–accelerated fixation and simultaneous FITC–Phalloidin staining. Sawitzky H, et al. **Histochem J** 1996 May;28(5):353–60

Use of fluorescein–labeled oligonucleotide for analysis of formation and dissociation kinetics of T:A:T triple–stranded DNA: effect of divalent cations. Ellouze C, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):521–6

Improvements in a competition assay to detect scrapie prion protein by capillary electrophoresis. Schmerr MJ, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):29–35

Spectrophotometric assay for total peroxyl radical–trapping antioxidant potential in human serum. Valkonen M, et al. **J Lipid Res** 1997 Apr;38(4):823–33

Physicochemical characterization of bisphosphonic carboxyfluorescein for osteotropic drug delivery. Fujisaki J, et al. **J Pharm Pharmacol** 1996 Aug;48(8):798–800

Multiplex fluorescence–based primer extension method for quantitative mutation analysis of mitochondrial DNA and its diagnostic application for Alzheimer's disease. Fahy E, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):3102–9

New energy transfer dyes for DNA sequencing. Lee LG, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2816–22

Reversible photobleaching of fluorescein conjugates in air–saturated viscous solutions: singlet and triplet state quenching by tryptophan. Periasamy N, et al. **Photochem Photobiol** 1996 Mar;63(3):265–71

DIAGNOSTIC USE

Micropunctate fluorescein staining of the human corneal surface: microerosions or cystic spaces? A non–contact photomicrographic in vivo study. Tabery HM. **Acta Ophthalmol Scand** 1997 Apr;75(2):134–6

Assessment of esophageal leak with oral fluorescein. Brevetti GR, et al. **Am J Gastroenterol** 1997 Jan;92(1):165–6

Inadequacy of high K+/nigericin for calibrating BCECF. I. Estimating steady–state intracellular pH. Boyarsky G, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1131–45

Inadequacy of high K+/nigericin for calibrating BCECF. II. Intracellular pH dependence of the correction. Boyarsky G, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1146–56

Detection of melanoma by monitoring the intracellular fluorescein fluorescence polarization changes in lymphocytes. Merimsky O, et al. **Cancer Detect Prev** 1997; 21(2):167–77

Bulbar conjunctival fluorescein staining in hydrogel contact lens wearers. Lakkis C, et al. **CLAO J** 1996 Jul;22(3):189–94

Modified serum pancreolauryl test in chronic pancreatitis: evaluation in comparison to endoscopic retrograde pancreatography. Lock G, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1110–6

Fluorescein and burn depth [letter; comment] Peled IJ. **J Burn Care Rehabil** 1996 Jul–Aug;17(4):378. Comment on: J Burn Care Rehabil 1995 Nov–Dec;16(6):602–4.

Difficulties in interpreting optic disc fluorescein leakage in Leber's hereditary optic neuropathy [letter; comment] Sanders MD, et al. **J Neuroophthalmol** 1997 Jun;17(2):143 . Comment on: J Neuroophthalmol 1996 Sep;16(3):178–81.

Measurement of intracellular pH in human spermatozoa by flow cytometry with the benzo[c]xanthene dye SNAFL–1: a novel, single excitation, dual emission, molecular probe. Brook PF, et al. **Mol Hum Reprod** 1996 Jan;2(1):18–25

Corneal staining patterns in normal non–contact lens wearers. Schwallie JD, et al. **Optom Vis Sci** 1997 Feb;74(2):92–8

The risk of pancreaticointestinal anastomosis can be predicted preoperatively. Friess H, et al. **Pancreas** 1996 Aug; 13(2):202–8

Intraoperative biliary tree imaging with cholyl–lysyl–fluorescein: an experimental study in the rabbit. Oddi A, et al. **Surg Laparosc Endosc** 1996 Jun; 6(3):198–200

[The intraoperative visualization of the bile ducts by the use of fluorescent substances. A feasibility study] Oddi A, et al. **G Chir** 1996 Nov–Dec;17(11–12):620–3 (Eng. Abstr.) **(Ita)**

[Fluorescent endoscopy in diagnosis of stomach neoplasm] Kuzin NM, et al. **Khirurgiia (Mosk)** 1997;(6):70–2 (21 ref.) **(Rus)**

ISOLATION & PURIFICATION

Practical method for the multigram separation of the 5– and 6–isomers of carboxyfluorescein. Rossi FM, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):495–7

METABOLISM

Quantitative assay for cell invasion using the fluorogenic substrate 2',7'–Bis(2–carboxyethyl)–5 (and –6)–carboxyfluorescein acetoxymethylester. Garrido T, et al. **Anal Biochem** 1996 Mar 15;235(2):234–6

Binding of two fluorescent cAMP analogues to type I and II regulatory subunits of cAMP–dependent protein kinases. Mucignat–Caretta C, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):81–90

Indomethacin–mediated reversal of multidrug resistance and drug efflux in human and murine cell lines overexpressing MRP, but not P–glycoprotein. Draper MP, et al. **Br J Cancer** 1997;75(6):810–5

Indication that intracellular fluorescence polarization of T lymphocytes is cell cycle dependent. Zurgil N, et al. **Cell Struct Funct** 1996 Aug;21(4):271–6

Modification of the Mycobacterium bovis extracellular protein MPB70 with fluorescein for rapid detection of specific serum antibodies by fluorescence polarization. Lin M, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):438–43

Detection of viable and non–viable cells in connective tissue explants using the fixable fluoroprobes 5–chloromethylfluorescein diacetate and ethidium homodimer–1. Poole CA, et al. **Connect Tissue Res** 1996; 33(4):233–41

Flow cytometric analysis of cytosolic pH of mesophyll cell protoplasts from the crabgrass Digitaria sanguinalis. Giglioli–Guivarc'h N, et al. **Cytometry** 1996 Mar 1; 23(3):241–9

Verapamil inhibition of enzymatic product efflux leads to improved detection of beta–galactosidase activity in lacZ–transfected cells. Poot M, et al. **Cytometry** 1997 May 1;28(1):36–41

Active efflux of the free acid form of the fluorescent dye 2',7'–bis(2–carboxyethyl)–5(6)–carboxyfluorescein in multidrug–resistance–protein–overexpressing murine and human leukemia cells. Draper MP, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):219–24

Vitreous laser absorption following fluorescein angiography in diabetic patients. Azzolini C, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234(8):488–92

Peripapillary fluorescein leakage in 11778 Leber's optic neuropathy [see comments] Yen MY, et al. **J Neuroophthalmol** 1996 Sep;16(3):178–81. Comment in: J Neuroophthalmol 1997 Jun;17(2):143.

Excretion of fluorescein in the urine of women with interstitial cystitis. Buffington CA, et al. **J Urol** 1997 Sep; 158(3 Pt 1):786–9

Fluorescein–Trp25–exendin–4, a biologically active fluorescent probe for the human GLP–1 receptor. Chicchi GG, et al. **Peptides** 1997;18(2):319–21

Real–time monitoring of hairpin ribozyme kinetics through base–specific quenching of fluorescein–labeled substrates. Walter NG, et al. **RNA** 1997 Apr;3(4):392–404

PHARMACOKINETICS

Finite element modeling of drug distribution in the vitreous humor of the rabbit eye. Friedrich S, et al. **Ann Biomed Eng** 1997 Mar–Apr;25(2):303–14

Drug distribution in the vitreous humor of the human eye: the effects of intravitreal injection position and volume. Friedrich S, et al. **Curr Eye Res** 1997 Jul;16(7):663–9

Impregnation of collagen corneal shields with liposomes: uptake and release of hydrophilic and lipophilic marker substances. Grammer JB, et al. **Curr Eye Res** 1996 Aug; 15(8):815–23

Dye spread through gap junctions in the corneal epithelium of the rabbit. Williams KK, et al. **Curr Eye Res** 1997 May; 16(5):445–52

Bidirectional small intestinal permeability changes to different–sized molecules after HCl–induced injury in the rat. Lundin PD, et al. **Dig Dis Sci** 1997 Mar;42(3):677–83

Influence of topical cyclosporine A and dissolvent on corneal epithelium permeability of fluorescein. Benítez del Castillo JM, et al. **Doc Ophthalmol** 1995;91(1):49–55

Movement of carboxyfluorescein across retinal pigment epithelium–choroid. Kimura M, et al. **Exp Eye Res** 1996 Jul;63(1):51–6

Improved reproducibility of the 'large–window' method of assessing transcapillary and interstitial fluorescein diffusion in the skin in healthy subjects and in subjects with insulin–dependent diabetes mellitus. Jager J, et al. **Int J Microcirc Clin Exp** 1997 May–Jun;17(3):150–8

Hyperventilation enhances transcapillary diffusion of sodium fluorescein. Steurer J, et al. **Int J Microcirc Clin Exp** 1996 Sep–Oct;16(5):266–70

Osteotropic drug delivery system (ODDS) based on bisphosphonic prodrug. I: synthesis and in vivo characterization of osteotropic carboxyfluorescein. Fujisaki J, et al. **J Drug Target** 1995;3(4):273–82

Osteotropic drug delivery system (ODDS) based on bisphosphonic prodrug. III: Pharmacokinetics and targeting characteristics of osteotropic carboxyfluorescein. Fujisaki J, et al. **J Drug Target** 1996;4(2):117–23

Effect of food intake on the delivery of fluorescein as a model drug in colon delivery capsule after oral administration to beagle dogs. Matsuda K, et al. **J Drug Target** 1996; 4(2):59–67

In vivo and in vitro evidence for nonrestricted transport of 2',7'–bis(2–carboxyethyl)–5(6)–carboxyfluorescein tetraacetoxymethyl ester at the blood–brain barrier. Hirohashi T, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):813–9

Calcein is excreted from the intestinal mucosal cell membrane by the active transport system. Fujita T, et al. **Life Sci** 1997;60(4–5):307–13

Simultaneous measurement of liposome extravasation and content release in tumors. Wu NZ, et al. **Microcirculation** 1997 Mar;4(1):83–101

Intracarotid tumor necrosis factor–alpha administration increases the blood–brain barrier permeability in cerebral cortex of the newborn pig: quantitative aspects of double–labelling studies and confocal laser scanning analysis. Abraham CS, et al. **Neurosci Lett** 1996 Apr 19; 208(2):85–8

In vitro evaluation of polymeric matrix and porous biodegradable reservoir devices for slow–release drug delivery. Peyman GA, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):384–91

Water–in–oil microemulsions containing medium–chain fatty acids/salts: formulation and intestinal absorption enhancement evaluation. Constantinides PP, et al. **Pharm Res** 1996 Feb;13(2):210–5

Fluorescent characteristics and pharmacokinetic profiles of the fluorescent probe BCECF in various tissues: the role of blood content. Devoisselle JM, et al.

FLUORESCEINS

Photochem Photobiol 1996 Dec;64(6):906–10

PHARMACOLOGY

The effect of BCECF on intracellular pH of human platelets. Aharonovitz O, et al. **Biochim Biophys Acta** 1996 Oct 23; 1284(2):227–32

Cytoplasmic delivery of calcein mediated by liposomes modified with a pH-sensitive poly(ethylene glycol) derivative. Kono K, et al. **Biochim Biophys Acta** 1997 Apr 26;1325(2):143–54

Modification of the Mycobacterium bovis extracellular protein MPB70 with fluorescein for rapid detection of specific serum antibodies by fluorescence polarization. Lin M, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):438–43

Cytotoxic activity of calcein acetoxymethyl ester (Calcein/AM) on primary cultures of human haematological and solid tumours. Jonsson B, et al. **Eur J Cancer** 1996 May;32A(5):883–7

Interaction of fluorescein with the dicarboxylate carrier in rat kidney cortex mitochondria. Masereeuw R, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1559–65

The effect of dichlorotriazinyl aminofluorescein on human keratocytes in vitro. Wee WR, et al. **Korean J Ophthalmol** 1996 Dec;10(2):63–7

Effect of fluorescein on the tear stability of Hong Kong-Chinese. Cho P, et al. **Optom Vis Sci** 1996 Jan; 73(1):1–7

Sequential staining: the effects of sodium fluorescein, osmolarity, and pH on human corneal epithelium. Thomas ML, et al. **Optom Vis Sci** 1997 Apr;74(4):207–10

Comparative behavioral sensitization to stereotypy by direct and indirect dopamine agonists in CF-1 mice. Bedingfield JB, et al. **Psychopharmacology (Berl)** 1996 Apr; 124(3):219–25

[The effect of angiography with disodium fluorescein on the hemorheologic parameters of diabetics] Sargento L, et al. **Acta Med Port** 1996 Oct–Dec;9(10–12):303–7 (Eng. Abstr.) **(Por)**

RADIATION EFFECTS

Influence of the triplet excited state on the photobleaching kinetics of fluorescein in microscopy. Song L, et al. **Biophys J** 1996 Jun;70(6):2959–68

FLUORESCENCE

Two-photon excitation by the evanescent wave from total internal reflection. Gryczynski I, et al. **Anal Biochem** 1997 Apr 5;247(1):69–76

An homogeneous fluorescence polymerase chain reaction assay to identify Salmonella. Tseng SY, et al. **Anal Biochem** 1997 Feb 15;245(2):207–12

Maximum entropy method for frequency-domain fluorescence lifetime analysis. 2. Timing, mismatched intensity, and reference lifetime errors. Shaver JM, et al. **Anal Chem** 1996 Feb 15;68(4):611–20

Quenching of chlorophyll a fluorescence in the aggregates of LHCII: steady state fluorescence and picosecond relaxation kinetics. Vasil'ev S, et al. **Biochemistry** 1997 Jun 17;36(24):7503–12

Generation of multiple mRNA fingerprints using fluorescence-based differential display and an automated DNA sequencer. Jones SW, et al. **Biotechniques** 1997 Mar; 22(3):536–40, 542–3

Fluorescence photography as a diagnostic method for oral cancer. Onizawa K, et al. **Cancer Lett** 1996 Nov 12; 108(1):61–6

Fluorescent diagnosis of experimental gastric cancer using a tumor-localizing photosensitizer. Tajiri H, et al. **Cancer Lett** 1997 Jan 1;111(1–2):215–20

Fluorescence localization of anti-pregnant rat kidney antibody and lectin binding analysis in exencephalic rat embryos. Fujii M, et al. **Childs Nerv Syst** 1996 Oct; 12(10):595–603

Fluorescence lifetime imaging: an emerging technique in fluorescence microscopy. Morgan CG, et al. **Chromosome Res** 1996 Jun;4(4):261–3

Reducing cellular autofluorescence in flow cytometry: an in situ method. Mosiman VL, et al. **Cytometry** 1997 Jun 15;30(3):151–6

Lens autofluorescence is increased in newly diagnosed patients with NIDDM. Koefoed Theil P, et al. **Diabetologia** 1996 Dec;39(12):1524–7

Native cellular fluorescence and its application to cancer prevention. Schantz SP, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:941–4 (30 ref.)

Age dependency of nanosecond fluorescence characteristics in human arteries. Araki T, et al. **Front Med Biol Eng** 1996; 7(4):265–73

One-tube post-PCR fluorescent labeling of DNA fragments. Inazuka M, et al. **Genome Res** 1996 Jun;6(6):551–7

Fundus autofluorescence in age-related macular disease imaged with a laser scanning ophthalmoscope. von Rückmann A, et al. **Invest Ophthalmol Vis Sci** 1997 Feb; 38(2):478–86

Narrow Band Imaging and fluorescence and its role in wound pattern documentation. Schneider RE, et al. **J Biol Photogr** 1996 Jul;64(3):67–75 (74 ref.)

Fluorescence resonance energy transfer analysis of the degradation of an oligonucleotide protected by a very stable hairpin. Réfrégiers M, et al. **J Biomol Struct Dyn** 1996 Dec;14(3):365–71

Two-photon excited lifetime imaging of autofluorescence in cells during UVA and NIR photostress. König K, et al. **J Microsc** 1996 Sep;183 (Pt 3):197–204

A fluorescence technique to measure intracellular pH of single neurons in brainstem slices. Ritucci NA, et al. **J Neurosci Methods** 1996 Oct;68(2):149–63

A fluorescence study of Tn10-encoded tet repressor. Wasylewski Z, et al. **J Protein Chem** 1996 Jan;15(1):45–58

Propagation of fluorescent light. Weich AJ, et al. **Lasers Surg Med** 1997;21(2):166–78

Multiple-domain fluorescence lifetime data analysis. Johnson ML. **Methods Enzymol** 1997;278:570–83 (15 ref.)

Determination of NADH in the rat brain during sleep–wake states with an optic fibre sensor and time-resolved fluorescence procedures. Mottin S, et al. **Neuroscience** 1997 Aug;79(3):683–93

Lenticular autofluorescence in normal tree shrews. Kado M, et al. **Ophthalmic Res** 1996;28(3):160–4

Pre-injection fluorescence in indocyanine green angiography. Piccolino FC, et al. **Ophthalmology** 1996 Nov; 103(11):1837–45

[Contribution of nidus fluorescence in the surgical treatment of osteoid osteoma. Apropos of 17 cases] Thomazeau H, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(8):737–42 (Eng. Abstr.) **(Fre)**

[A method of fluorescence spectral analysis of lymphocyte function in cancer patients] Sheĭko EA, et al. **Vopr Onkol** 1997;43(3):295–8 (Eng. Abstr.) **(Rus)**

FLUORESCENCE-ACTIVATED CELL SORTING see **FLOW CYTOMETRY**

FLUORESCENCE ANGIOGRAPHY see **FLUORESCEIN ANGIOGRAPHY**

FLUORESCENCE ANISOTROPY see **FLUORESCENCE POLARIZATION**

FLUORESCENCE MICROSCOPY see **MICROSCOPY, FLUORESCENCE**

FLUORESCENCE POLARIZATION

Two-photon excitation by the evanescent wave from total internal reflection. Gryczynski I, et al. **Anal Biochem** 1997 Apr 5;247(1):69–76

Anisotropy values for liposomes from neonatal and adult erythrocytes differ after adjustment for optical density scattering. Huisman MA, et al. **Anal Biochem** 1997 Jun 1; 248(2):301–3

A high-throughput STAT binding assay using fluorescence polarization. Wu P, et al. **Anal Biochem** 1997 Jun 15; 249(1):29–36

Molecular mechanics analysis of Tet repressor TRP-43 fluorescence. Silvi Antonini P, et al. **Biophys J** 1997 Apr; 72(4):1800–11

Detection of melanoma by monitoring the intracellular fluorescein fluorescence polarization changes in lymphocytes. Merimsky O, et al. **Cancer Detect Prev** 1997; 21(2):167–77

A homogeneous method for genotyping with fluorescence polarization. Gibson NJ, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1336–41

Strand displacement amplification and fluorescence polarization [letter; comment] Seckinger D. **Clin Chem** 1996 Oct;42(10):1720. Comment on: Clin Chem 1996 Jan;42(1):7–8. Comment on: Clin Chem 1996 Jan;42(1):9–13.

Detection of Mycobacterium tuberculosis DNA with thermophilic strand displacement amplification and fluorescence polarization. Walker GT, et al. **Clin Chem** 1996 Oct;42(10):1604–8

Analysis of the intracellular processing of proteins: application of fluorescence polarization and a novel fluorescent probe. Weaver DJ Jr, et al. **Cytometry** 1997 May 1;28(1):25–35

Adaptation of the cellscan technique for the SCM test in breast cancer. Rahmani H, et al. **Eur J Cancer** 1996 Sep; 32A(10):1758–65

[Analysis of molecular interaction by fluorescence polarization method] Mineno J. **Tanpakushitsu Kakusan Koso** 1997 Jan;42(1):77–81 (12 ref.) **(Jpn)**

METHODS

Measurement of specific protease activity utilizing fluorescence polarization. Levine LM, et al. **Anal Biochem** 1997 Apr 5;247(1):83–8

A fluorescence polarization based Src-SH2 binding assay. Lynch BA, et al. **Anal Biochem** 1997 Apr 5;247(1):77–82

BODIPY-alpha-casein, a pH-independent protein substrate for protease assays using fluorescence polarization. Schade SZ, et al. **Anal Biochem** 1996 Dec 1;243(1):1–7

Simultaneous strand displacement amplification and fluorescence polarization detection of Chlamydia trachomatis DNA. Spears PA, et al. **Anal Biochem** 1997 Apr 5;247(1):130–7

On the interaction between a bactericidal antibody and a PorA epitope of Neisseria meningitidis in outer membrane vesicles: a competitive fluorescence polarization immunoassay. van den Elsen JM, et al. **Anal Biochem** 1997 May 1;247(2):382–8

Fluorescence polarization analysis of protein-DNA and protein-protein interactions. Lundblad JR, et al. **Mol Endocrinol** 1996 Jun;10(6):607–12 (12 ref.)

FLUORESCENCE POLARIZATION IMMUNOASSAY

Topical application of eosin to burns produces interference in measurement of serum vancomycin by fluorescence polarization immunoassay. Leal T, et al. **Clin Chem** 1997 Jul;43(7):1238–40

Characterization of competitive binding, fluorescent drug immunoassays based on micellar electrokinetic capillary chromatography. Steinmann L, et al. **Electrophoresis** 1996 Aug;17(8):1348–56

A homogeneous fluorescence polarization assay for detection of antibody to Brucella abortus. Nielsen K, et al. **J Immunol Methods** 1996 Sep 9;195(1–2):161–8

Comparison of high-performance liquid chromatography and polyclonal fluorescence polarization immunoassay for the monitoring of midazolam in the plasma of intensive care unit patients. Bourget P, et al. **Ther Drug Monit** 1996 Oct; 18(5):610–9

Digitoxinlike and digoxinlike immunoreactivitis in sera of patients with uremia and liver disease as measured by fluorescence polarization immunoassays: poor correlation between digitoxinlike and digoxinlike immunoreactivities. Luke M, et al. **Ther Drug Monit** 1997 Apr;19(2):230–5

Vancomycin serum concentrations in patients with renal dysfunction: a comparison of fluorescence polarization immunoassay and the enzyme-multiplied immunoassay technique. Peckman HJ, et al. **Ther Drug Monit** 1996 Dec; 18(6):647–53

Comparison of fluorescence polarization immunoassay with liquid chromatography for quantification of procainamide and N-acetylprocainamide in urine. Tisdale JE, et al. **Ther Drug Monit** 1996 Dec;18(6):693–7

[The accuracy of blood alcohol determination with head-space GC, ADH and REA ethanol assay for the AXSYM system--a comparison of the methods] Alt A, et al. **Blutalkohol** 1996 Jul;33(4):209–14 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Evaluation of the Syva Emit 2000 digoxin assay on a Hitachi 717 analyzer. Vogl M, et al. **Clin Biochem** 1996 Aug; 29(4):389–91

METHODS

Interpretation of the TDx-FLM fluorescence polarization assay in pregnancies complicated by diabetes mellitus. Del Valle GO, et al. **Am J Perinatol** 1997 May;14(5):241–4

Fluorescence polarization immunoassay of a high-molecular-weight antigen using a long wavelength-absorbing and laser diode-excitable metal-ligand complex. Terpetschnig E, et al. **Anal Biochem** 1996 Aug 15;240(1):54–9

Evaluation of Innofluor fluorescence polarization immunoassay kits for the determination of serum concentrations of gentamicin, tobramycin, amikacin and vancomycin.lesassays@ukneqasaa.win-uk.net. White LO, et al. **J Antimicrob Chemother** 1997 Mar;39(3):355–61

Thermodynamic analysis of monoclonal antibody binding to duplex DNA. Tanha J, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1442–9

Effects of digoxinlike immunoreactive substances and digoxin FAB antibodies on the new digoxin microparticle enzyme immunoassay. Crossey MJ, et al. **Ther Drug Monit** 1997 Apr;19(2):185–90

[Determination of serum methadone with an immunologic kit and comparison with a liquid chromatography method] Dessalles MC, et al. **Ann Biol Clin (Paris)** 1996;54(5):203–9 (Eng. Abstr.) **(Fre)**

[Fluorescence polarization immunoassay and microparticle enzyme immunoassay] Suguri M, et al. **Rinsho Byori** 1996 Nov;44(11):1072–5 (Eng. Abstr.) **(Jpn)**

FLUORESCENCE SPECTROPHOTOMETRY see **SPECTROMETRY, FLUORESCENCE**

FLUORESCENCE SPECTROSCOPY see **SPECTROMETRY, FLUORESCENCE**

FLUORESCENT ANTIBODY TECHNIQUE

Comparison of antinuclear antibody testing methods: immunofluorescence assay versus enzyme immunoassay. Gniewek RA, et al. **Clin Diagn Lab Immunol** 1997 Mar; 4(2):185–8

A simple and rapid technique for the immunofluorescence confocal microscopy of intact Arabidopsis root tips. Harper JD, et al. **Cytobios** 1996;87(349):71–8

A comparison of conventional microscopy, immunofluorescence microscopy and flow cytometry in the detection of Giardia lamblia cysts in beaver fecal samples. Dixon BR, et al. **J Immunol Methods** 1997 Mar 10;202(1):27–33

ANCA-Tutor: a program that teaches interpretation of an immunofluorescence assay. Wener MH, et al.

MD Comput 1996 May-Jun;13(3):216-20

Adhesion molecules on isolated and cultured microvascular endothelial cells demonstrated by immunofluorescence and immune electron microscopy. Neumüller J, et al. **Methods Mol Biol** 1997;75:399-425 (108 ref.)

Immunofluorescent quantitation of chloroplast proteins. Leech RM, et al. **Plant J** 1996 Dec;10(6):1169-75

[Comparative evaluation of test-systems for detection of Venezuelan equine encephalomyelitis virus and variola virus using dot immunoenzyme assay and solid-phase lanthanide immunofluorescent assay] Gradoboev VN, et al. **Vopr Virusol** 1996 Nov-Dec;41(6):277-80 (Eng. Abstr.) **(Rus)**

INSTRUMENTATION

[Ophthalmia neonatorum caused by Chlamydia trachomatis. Rapid diagnosis and therapy] Schaller U, et al. **Ophthalmologe** 1997 May;94(5):317-20 (Eng. Abstr.) **(Ger)**

METHODS

Immunofluorescence assay for the quantitative and qualitative evaluation of intracellular interleukin-8 in microtiter plates. Wolff B, et al. **Anal Biochem** 1997 Jan 1;244(1):33-9

Improving the efficacy of fluorescent labeling for histological tracking of cells in early mammalian and avian embryos. Garton HJ, et al. **Anat Rec** 1996 Jan;244(1):112-17

A simple immunofluorescence technique for simultaneous visualization of mast cells and nerve fibers reveals selectivity and hair cycle--dependent changes in mast cell--nerve fiber contacts in murine skin. Botchkarev VA, et al. **Arch Dermatol Res** 1997 Apr;289(5):292-302

Fluoro-Jade: a novel fluorochrome for the sensitive and reliable histochemical localization of neuronal degeneration. Schmued LC, et al. **Brain Res** 1997 Mar 14; 751(1):37-46

Detection of antineutrophil cytoplasmic antibodies in primary sclerosing cholangitis: a comparison of the alkaline phosphatase and immunofluorescent techniques. Bansi DS, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):575-80

Lipopolysaccharide-induced cytokine production in peripheral blood mononuclear cells: intracellular localization of tumor necrosis factor alpha and interleukin 1 beta detected with a three-color immunofluorescence technique. de Bont ES, et al. **Histochem Cell Biol** 1996 Dec;106(6):593-8

The effect of temperature, pH and medium in a surface adhesion immunofluorescent technique for detection of Listeria monocytogenes. Duffy G, et al. **J Appl Microbiol** 1997 Jul;83(1):95-101

A covalent fluorescent-gold immunoprobe: simultaneous detection of a pre-mRNA splicing factor by light and electron microscopy. Powell RD, et al. **J Histochem Cytochem** 1997 Jul;45(7):947-56

Double immunofluorescent staining using two unconjugated primary antisera raised in the same species. Shindler KS, et al. **J Histochem Cytochem** 1996 Nov;44(11):1331-5

Quantitative analysis of immunofluorescence and lipofuscin distribution in human cortical areas by dual-channel confocal laser scanning microscopy. Belichenko PV, et al. **J Neurosci Methods** 1996 Nov;69(2):155-61

Energy transfer methods for detecting molecular clusters on cell surfaces. Matko J, et al. **Methods Enzymol** 1997; 278:444-62 (56 ref.)

Rapid direct determination of low and high molecular weight kininogen in human plasma by Particle Concentration Fluorescence Immunoassay (PCFIA). Scott CF, et al. **Thromb Haemost** 1997 Jan;77(1):109-18

FLUORESCENT ANTIBODY TECHNIQUE, DIRECT

Functionally active T cell receptor/CD3 complexes are present at the surface of cloned cytotoxic T cells without fluorescence-immunological detectability. Staege MS, et al. **Cell Immunol** 1996 Jul 10;171(1):62-7

A note on specific counting of platelets using fluorescent antibodies [letter; comment] Chapman ES, et al. **Clin Lab Haematol** 1996 Jun;18(2):131-2. Comment on: Clin Lab Haematol 1995 Jun;17(2):163-72.

Detection of Pneumocystis carinii in tracheal aspirates of intubated patients using calcofluor-white (Fungi-Fluor) and immunofluorescence antibody (Genetic Systems) stains. Alvarez F, et al. **Crit Care Med** 1997 Jun; 25(6):948-52

Evaluation of a direct immunofluorescence assay, dot-blot enzyme immunoassay, and shell vial culture in the diagnosis of lower respiratory tract infections caused by influenza A virus. Reina J, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):143-5

Comparison of an automated enzyme immunoassay with a direct fluorescent antibody test and polymerase chain reaction for the detection of Chlamydia trachomatis in diagnostic specimens from male patients. Tong CY, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):336-40

Circulating pemphigus IgG in families of patients with pemphigus: comparison of indirect immunofluorescence, direct immunofluorescence, and immunoblotting. Brandsen R, et al. **J Am Acad Dermatol** 1997 Jan;36(1):44-52

Antigen detection: the method of choice in comparison with virus isolation and serology for laboratory diagnosis of herpes zoster in human immunodeficiency virus-infected patients. Dahl H, et al. **J Clin Microbiol** 1997 Feb; 35(2):347-9

Detection of Chlamydia trachomatis by immunofluorescence, papanicolaou and immunoperoxidase in women with leucorrhea. Reyes-Maldonado E, et al. **Rev Latinoam Microbiol** 1996 Apr-Jun;38(2):65-73

Confirmation of the Syva MicroTrak enzyme immunoassay for chlamydia trachomatis by Syva Direct Fluorescent Antibody Test. Beebe JL, et al. **Sex Transm Dis** 1996 Nov-Dec;23(6):465-70

[Biological diagnosis of pneumocystis infection. Evaluation and value of a new direct immunofluorescent technique] Rigole P, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):19-23 (Eng. Abstr.) **(Fre)**

[Direct immunofluorescence in the diagnosis of Twar infection (letter)] Sanchis-Bayarri V, et al. **An Med Interna** 1995 Sep;12(9):461-2 **(Spa)**

[Diagnosis of infections caused by varicella zoster virus (letter)] Barraquer P, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):277-8 **(Spa)**

[Evaluation of a dot-blot ELISA method, direct immunofluorescence, and shell-vial culture for the detection of influenza virus A in nasopharyngeal aspirates (letter)] Reina J, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):397-8 **(Spa)**

METHODS

Immunoperoxidase and immunofluorescent staining of Rickettsia rickettsii in skin biopsies. A comparative study. Procop GW, et al. **Arch Pathol Lab Med** 1997 Aug; 121(8):894-9

Clinical significance of antinuclear antibodies: comparison of detection with immunofluorescence and enzyme-linked immunosorbent assays. Emlen W, et al. **Arthritis Rheum** 1997 Sep;40(9):1612-8

Direct immunofluorescence labeling provides an improved method for the glycophorin A somatic cell mutation assay. Jensen RH, et al. **Cytometry** 1996 Apr 1;23(4):337-43

Detection of Pneumocystis carinii with direct fluorescence antibody and calcofluor white stain. Aslanzadeh J, et al. **Infection** 1996 May-Jun;24(3):248-50

Evaluation of nine immunoassay kits (enzyme immunoassay and direct fluorescence) for detection of Giardia lamblia and Cryptosporidium parvum in human fecal specimens. Garcia LS, et al. **J Clin Microbiol** 1997 Jun;35(6):1526-9

Microwave-accelerated direct immunofluorescent staining for respiratory syncytial virus and influenza A virus. Hite SA, et al. **J Clin Microbiol** 1996 Jul;34(7):1819-20

Differential diagnoses of influenza A virus, influenza B virus, and respiratory syncytial virus infections by direct immunofluorescence using mixtures of monoclonal antibodies of different isotypes. Murphy P, et al. **J Clin Microbiol** 1996 Jul;34(7):1798-800

A case of linear IgA disease: an immunofluorescent study using confocal laser scan microscopy. Kobayashi T, et al. **J Dermatol** 1997 May;24(5):306-9

Quadruple immunofluorescence: a direct visualization method. Ferri GL, et al. **J Histochem Cytochem** 1997 Feb; 45(2):155-8

Triple immunofluorescence labelling of parvalbumin, calbindin-D28k and calretinin in rat and monkey brain. Härtig W, et al. **J Neurosci Methods** 1996 Aug;67(2):89-95

Application of local products R-phycoerythrin and monoclonal antibody as a fluorescent antibody probe to detect Entamoeba histolytica trophozoites. Thammapalerd N, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun;27(2):297-303

Lymphocytes subsets in normal individuals: analysis by four color immunofluorescence and flow cytometry on whole blood. Schiavon V, et al. **Tissue Antigens** 1996 Oct;48(4 Pt 1):312-8

Detection of mitotic spindles in third-instar imaginal discs of Drosophila melanogaster. Audibert A, et al. **Trends Genet** 1996 Nov;12(11):452-3

FLUORESCENT ANTIBODY TECHNIQUE, INDIRECT

Detection of cell-surface antigens using antibody-conjugated fluorospheres (ACF): application for six-color immunofluorescence. Beavis AJ, et al. **Biotechniques** 1996 Sep;21(3):498-503

Lack of agreement among two commercial enzyme-linked immunosorbent antibody assays and a conventional immunofluorescence-based method for detecting islet cell autoantibodies. Baron EJ, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):429-31

Immunofluorescent study after transient transfection of myoblast cells with the plasmid PSV40-beta-globin. Pironcheva GL, et al. **Cytobios** 1996;86(347):243-6

Correction for antibody crosstalk [letter; comment] Shackney SE. **Cytometry** 1996 Sep 1;25(1):109-10. Comment on: Cytometry 1995 Sep 1;21(1):6-13.

Comparison of immunofluorescence with enzyme immunoassay for detection of Q fever. D'Harcourt SC, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):749-52

Circulating pemphigus IgG in families of patients with pemphigus: comparison of indirect immunofluorescence, direct immunofluorescence, and immunoblotting. Brandsen R, et al. **J Am Acad Dermatol** 1997 Jan;36(1):44-52

Sensitivity of indirect immunofluorescence, substrate specificity, and immunoblotting in the diagnosis of pemphigus. Jiao D, et al. **J Am Acad Dermatol** 1997 Aug; 37(2 Pt 1):211-6

Detection of enteroviruses from clinical specimens by spin amplification shell vial culture and monoclonal antibody assay. Klespies SL, et al. **J Clin Microbiol** 1996 Jun; 34(6):1465-7

Detection of autoantibody against 97-kD antigen by immunoblot, but not by indirect immunofluorescence, in a patient with linear IgA bullous dermatosis. Ohno H, et al. **J Dermatol** 1996 Oct;23(10):665-9

Immunofluorescence detection of F-actin on low melting point wax sections from plant tissues. Vitha S, et al. **J Histochem Cytochem** 1997 Jan;45(1):89-95

Clinical comparison of borreliacidal-antibody test with indirect immunofluorescence and enzyme-linked immunosorbent assays for diagnosis of Lyme disease. Agger WA, et al. **Mayo Clin Proc** 1997 Jun;72(6):510-4

Immunocytochemistry of renal H-ATPase. Bastani B, et al. **Miner Electrolyte Metab** 1996;22(5-6):382-95 (73 ref.)

Platelet antibody detection in pediatric immune thrombocytopenic purpura: evaluation of three screening methods. Biglino P, et al. **Vox Sang** 1997;72(4):242-6

[Detection of dsDNA antibodies in diagnosis of systemic lupus erythematosus--comparative studies of diagnostic effectiveness of 3 ELISA methods with different antigens and a Crithidia luciliae immunofluorescence test] Wigand R, et al. **Z Rheumatol** 1997 Mar-Apr;56(2):53-62 (Eng. Abstr.) **(Ger)**

[Diagnosis of legionellosis by microagglutination test--comparison to indirect immunofluorescent antibody method] Koide M, et al. **Kansenshogaku Zasshi** 1996 Dec; 70(12):1254-8 (Eng. Abstr.) **(Jpn)**

[Decreased incidence of peripheral nuclear staining pattern by indirect immunofluorescent antibody technique using HEp-2 cells] Miyawaki S, et al. **Ryumachi** 1996 Aug; 36(4):644-50 (Eng. Abstr.) **(Jpn)**

[The detection of the Glm(1) antigen by the indirect immunofluorescence reaction in a quantitative modification] Sidorov VL, et al. **Sud Med Ekspert** 1997 Jan-Mar;40(1):33-4 (Eng. Abstr.) **(Rus)**

[Efficacy of an indirect immunofluorescence technique in the rapid diagnosis of parainfluenza virus type 3 infection (letter)] Reina J, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):46-7 **(Spa)**

[Cross-reactivity between Chlamydia psittaci and Acinetobacter in indirect immunofluorescence assays] Espinosa M, et al. **Rev Argent Microbiol** 1996 Jul-Sep; 28(3):143-6 (Eng. Abstr.) **(Spa)**

METHODS

Antinuclear antibody determination in a routine laboratory. Feltkamp TE. **Ann Rheum Dis** 1996 Oct;55(10):723-7

An in vitro method for detecting infectious Cryptosporidium oocysts with cell culture. Slifko TR, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3669-75

A time-resolved immunofluorometric assay of autoantibodies to double-stranded DNA. van der Sluijs Veer G, et al. **Eur J Clin Chem Clin Biochem** 1996 Nov;34(11):915-20

Comparison of the indirect immunofluorescent antibody test and the direct agglutination test for serodiagnosis of visceral leishmaniasis in HIV-infected subjects. Nigro L, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):832-5

Antimitochondrial antibody detection by indirect immunofluorescence on mouse sperms. Martínez S, et al. **Eur J Histochem** 1996;40(4):315-22

Differences in phycoerythrin- or fluorescein-isothiocyanate conjugated 8G12 on CD34+ cell evaluation. Ortuño F, et al. **Haematologica** 1997 May-Jun;82(3):334-5

Detection of poly(ADP-ribose) polymerase and its reaction product poly(ADP-ribose) by immunocytochemistry. Küpper JH, et al. **Histochem J** 1996 May;28(5):391-5

Diagnosis of toxoplasmosis by joint detection of immunoglobulin A and immunoglobulin M. Arcavi M, et al. **J Clin Microbiol** 1997 Jun;35(6):1450-3

Pitfalls and fallacies of cat scratch disease serology: evaluation of Bartonella henselae-based indirect fluorescence assay and enzyme-linked immunoassay. Bergmans AM, et al. **J Clin Microbiol** 1997 Aug; 35(8):1931-7

Detection and typing of herpes simplex viruses by using recombinant immunoglobulin fragments produced in bacteria. Cattani P, et al. **J Clin Microbiol** 1997 Jun; 35(6):1504-9

Flow cytometric immunofluorescence assay for detection of antibodies to human immunodeficiency virus type 1 using insoluble precursor forms of recombinant polyproteins as carriers and antigens. Hu YW, et al. **J Clin Microbiol** 1996 Jun;34(6):1412-9

Efficacy of immunoglobulin M serodiagnostic test for rapid diagnosis of acute babesiosis. Krause PJ, et al. **J Clin Microbiol** 1996 Aug;34(8):2014-6

Comparison of PCR and culture to the indirect fluorescent-antibody test for diagnosis of Potomac horse fever. Mott J, et al. **J Clin Microbiol** 1997 Sep;35(9):2215-9

An indirect immunofluorescence assay using a cell culture-derived antigen for detection of antibodies to the agent of human granulocytic ehrlichiosis. Nicholson WL, et al. **J Clin Microbiol** 1997 Jun;35(6):1510-6

FLUORESCENT ANTIBODY TECHNIQUE, INDIRECT

Monoclonal antibodies capable of distinguishing epizootic from enzootic varieties of subtype 1 Venezuelan equine encephalitis viruses in a rapid indirect immunofluorescence assay. Roehrig JT, et al. **J Clin Microbiol** 1997 Jul; 35(7):1887–90

Comparison of nested PCR with immunofluorescent-antibody assay for detection of Ehrlichia canis infection in dogs treated with doxycycline. Wen B, et al. **J Clin Microbiol** 1997 Jul;35(7):1852–5

Immunocytochemical detection and spatial distribution of myosin light-chain kinase in preimplantation mouse embryos. Kabir N, et al. **J Exp Zool** 1997 Jun 15; 278(3):147–55

Comparison of immunologic amplification vs enzymatic deposition of fluorochrome-conjugated tyramide as detection systems for FISH. Macechko PT, et al. **J Histochem Cytochem** 1997 Mar;45(3):359–63

Quantification of replication of clinical cytomegalovirus isolates in cultured endothelial cells and fibroblasts by a focus expansion assay. Sinzger C, et al. **J Virol Methods** 1997 Jan;63(1–2):103–12

Chromosomal PRINS DNA labeling combined with indirect immunocytochemistry. Mitchell AR. **Methods Mol Biol** 1997;71:61–70 (12 ref.)

Indirect quenching fluororeceptor assay of anti-AChR antibodies. Messripour M, et al. **Mol Chem Neuropathol** 1997 May;31(1):43–51

Analysis of DES-induced micronuclei in binucleated rat fibroblasts: comparison between FISH with a rat satellite I probe and immunocytochemical staining with CREST serum. de Stoppelaar JM, et al. **Mutat Res** 1997 Aug 1; 392(1–2):139–49

Diagnosis of pulmonary infections in immunocompromised patients by fiber-optic bronchoscopy with bronchoalveolar lavage and serology. Eriksson BM, et al. **Scand J Infect Dis** 1996;28(5):479–85

Assessment of the acrosome reaction in Bufo arenarum spermatozoa by immunostaining: comparison with other methods. Martínez ML, et al. **Zygote** 1996 Aug;4(3):181–90

[Use of indirect immunofluorescence and polymerase chain reaction (PCR) for detection of Borrelia burgdorferi in ticks] Tylewska-Wierzbanowska S, et al. **Przegl Epidemiol** 1996;50(3):239–44 (11 ref.) (Eng. Abstr.) (Pol)

STANDARDS

Investigation of rabies virus strains in Mexico with a panel of monoclonal antibodies used to classify Lyssavirus. Loza-Rubio E, et al. **Bull Pan Am Health Organ** 1996 Mar; 30(1):31–5

Specificity of a commercial indirect immunofluorescence technique in the diagnosis of visceral leishmaniasis in patients infected with HIV-1. Gallardo JA, et al. **Trans R Soc Trop Med Hyg** 1996 Jul-Aug;90(4):383

VETERINARY

Comparative study of serological methods for the detection of antibodies to porcine reproductive and respiratory syndrome virus. Cho HJ, et al. **Can J Vet Res** 1997 Jul; 61(3):161–6

Detection of equine antisperm antibodies by indirect immunofluorescence and the tube-slide agglutination test. Day MJ. **Equine Vet J** 1996 Nov;28(6):494–6

Analysis and significance of anti-nuclear antibodies in dogs. Bell SC, et al. **Res Vet Sci** 1997 Jan-Feb;62(1):83–4

The indirect fluorescent antibody test based on schizont antigen for study of the sheep parasite Theileria lestoquardi. Leemans I, et al. **Vet Parasitol** 1997 Apr;69(1–2):9–18

Diagnosis of Theileria annulata infection of cattle in Tunisia: comparison of serology and blood smears. Darghouth ME, et al. **Vet Res** 1996;27(6):613–21

FLUORESCENT ANTINUCLEAR ANTIBODIES see **ANTIBODIES, ANTINUCLEAR**

FLUORESCENT ANTINUCLEAR ANTIBODY TEST see **FLUORESCENT ANTIBODY TECHNIQUE**

FLUORESCENT DYES

Three-dimensional imaging of rhodamine 123 fluorescence distribution in human melanoma cells by means of confocal laser scanning microscopy. Porwol T, et al. **Acta Anat (Basel)** 1996;157(2):116–25

Detection of hyphae in pus with Fungiflora Y [letter] Kimura M, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1327–8

Second generation video imaging technique for assessing dermal exposure (VITAE System). Fenske RA, et al. **Am Ind Hyg Assoc J** 1997 Sep;58(9):636–45

A simple, fluorescent method to internally label platelets suitable for physiological measurements. Baker GR, et al. **Am J Hematol** 1997 Sep;56(1):17–25

Measurement of changes in cell volume based on fluorescence quenching. Srinivas SP, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1405–14

Visualization of DNA in agarose gels as migrating colored bands: applications for preparative gels and educational demonstrations. Adkins S, et al. **Anal Biochem** 1996 Aug 15;240(1):17–23

Potential misevaluation of the ground-state dissociation constant from fluorimetric titrations: application to the ion indicators SBFI, PBFI, and fura-2. Kowalczyk A, et al. **Anal Biochem** 1997 Feb 1;245(1):28–37

A rapid fluorescence bioassay for the determination of selenium on agar plates. Liu Z, et al. **Anal Biochem** 1997 Jan 1;244(1):40–4

Long-lifetime metal-ligand pH probe. Murtaza Z, et al. **Anal Biochem** 1997 May 1;247(2):216–22

BODIPY-alpha-casein, a pH-independent protein substrate for protease assays using fluorescence polarization. Schade SZ, et al. **Anal Biochem** 1996 Dec 1;243(1):1–7

SYPRO orange and SYPRO red protein gel stains: one-step fluorescent staining of denaturing gels for detection of nanogram levels of protein. Steinberg TH, et al. **Anal Biochem** 1996 Aug 1;239(2):223–37

Applications of SYPRO orange and SYPRO red protein gel stains. Steinberg TH, et al. **Anal Biochem** 1996 Aug 1; 239(2):238–45

Optimal filter combinations for photographing SYPRO orange or SYPRO red dye-stained gels. Steinberg TH, et al. **Anal Biochem** 1997 May 15;248(1):168–72

A microplate assay measuring chloride ion channel activity. West MR, et al. **Anal Biochem** 1996 Oct 1;241(1):51–8

3-(4-Carboxybenzoyl)quinoline-2-carboxaldehyde, a reagent with broad dynamic range for the assay of proteins and lipoproteins in solution. You WW, et al. **Anal Biochem** 1997 Jan 15;244(2):277–82

Characterization of visible dyes for four-decay fluorescence detection in DNA sequencing. Nunnally BK, et al. **Anal Chem** 1997 Jul 1;69(13):2392–7

Technical features of a CCD video camera system to record cardiac fluorescence data. Baxter WT, et al. **Ann Biomed Eng** 1997 Jul-Aug;25(4):713–25

Dermal exposure of amateur or non-occupational users to wood-preservative fluids applied by brushing outdoors. Roff MW. **Ann Occup Hyg** 1997 Jun;41(3):297–311

Accuracy and reproducibility of calibrations on the skin using the fives fluorescence monitor. Roff MW. **Ann Occup Hyg** 1997 Jun;41(3):313–24

Detection of P-glycoprotein expression by tumoral cells with NBDL-CsA, a fluorescent derivative of cyclosporin A. Didier A, et al. **Anticancer Drugs** 1996 May;7(3):257–65

Ranking of P-glycoprotein substrates and inhibitors by a calcein-AM fluorometry screening assay. Tiberghien F, et al. **Anticancer Drugs** 1996 Jul;7(5):568–78

Rapid measurement of modified oligonucleotide levels in plasma samples with a fluorophore specific for single-stranded DNA. Gray GD, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):133–40

Bacterial viability and antibiotic susceptibility testing with SYTOX green nucleic acid stain. Roth BL, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2421–31

Molecular beacons: trial of a fluorescence-based solution hybridization technique for ecological studies with ruminal bacteria. Schofield P, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1143–7

Fluorescence techniques for diagnosing intestinal microsporidiosis in stool, enteric fluid, and biopsy specimens from acquired immunodeficiency syndrome patients with chronic diarrhea. Conteas CN, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):847–53

Characterization of voltage-dependent calcium influx in human erythrocytes by fura-2. Soldati L, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):549–54

Effects of secondary forces on the ligand binding and conformational state of antifluorescein monoclonal antibody 9-40. Mummert ME, et al. **Biochemistry** 1997 Sep 30;36(39):11918–22

Fluorescence recovery after photobleaching (FRAP) of a fluorescent transferrin internalized in the late transferrin endocytic compartment of living A431 cells: experimer.ts. Azizi F, et al. **Biochim Biophys Acta** 1997 Jul 5; 1327(1):75–88

Fluorescent probes of membrane surface properties. Epand RF, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):191–5

Diffusion membrane potential in liposomes: setting by ion gradients, absolute calibration and monitoring of fast changes by spectral shifts of diS-C3(3) fluorescence maximum. Vecer J, et al. **Biochim Biophys Acta** 1997 Apr 26;1325(2):155–64

Fluorescent recovery after photobleaching (FRAP) of a fluorescent transferrin internalized in the late transferrin endocytic compartment of living A431 cells: theory. Wahl P, et al. **Biochim Biophys Acta** 1997 Jul 5;1327(1):69–74

Determination of carboxylic acid salts in pharmaceuticals by high-performance liquid chromatography after pre-column fluorogenic labelling. Gatti R, et al. **Biomed Chromatogr** 1996 Jan-Feb;10(1):19–24

Determination of the cyanobacterial neurotoxin, anatoxin-a, by derivatisation using 7-fluoro-4-nitro-2,1,3-benzoxadiazole (NBD-F) and HPLC analysis with fluorimetric detection. James KJ, et al. **Biomed Chromatogr** 1996 Jan-Feb;10(1):46–7

High-speed, random-access fluorescence microscopy: I. High-resolution optical recording with voltage-sensitive dyes and ion indicators. Bullen A, et al. **Biophys J** 1997 Jul;73(1):477–91

Time-resolved fluorescence spectroscopy and imaging of DNA labeled with DAPI and Hoechst 33342 using three-photon excitation. Lakowicz JR, et al. **Biophys J** 1997 Feb;72(2 Pt 1):567–78

Resonance energy transfer in a model system of membranes: application to gel and liquid crystalline phases. Loura LM, et al. **Biophys J** 1996 Oct;71(4):1823–36

Structure and interactive properties of highly fluorinated phospholipid bilayers. McIntosh TJ, et al. **Biophys J** 1996 Oct;71(4):1853–68

New fluorescent octadecapentaenoic acids as probes of lipid membranes and protein-lipid interactions. Mateo CR, et al. **Biophys J** 1996 Oct;71(4):2177–91

Probing pH and pressure effects on the apomyoglobin heme pocket with the 2'-(N,N-dimethylamino)-6-naphthoyl-4-trans-cyclohexanoic acid fluorophore. Sire O, et al. **Biophys J** 1996 Jun;70(6):2903–14

The fluorescent dye 3, 3' dihexyloxacarbocyanine iodide selectively stains the midpiece and apical region of the heads of murid rodent spermatozoa. Breed WG, et al. **Biotech Histochem** 1995 Nov;70(6):294–6

Flow cytometric applications of Sulforhodamine 101 as a fluorescent stain for total cellular protein. Engelhard HH. **Biotech Histochem** 1997 Jan;72(1):1–9

A double fluorescence staining protocol to determine the cross-sectional area of myofibers using image analysis. Mozdziak PE, et al. **Biotech Histochem** 1996 Mar; 71(2):102–7

Cerium oxide removes background fluorescent contaminants, "green smears", from glass plates used for automated fluorescence-based DNA sequencing. Bunville J, et al. **Biotechniques** 1997 Feb;22(2):236–8

Use of the fluorescent dye PicoGreen for quantification of PCR products after agarose gel electrophoresis. Enger O. **Biotechniques** 1996 Sep;21(3):372–4

Simultaneous detection of multiple point mutations using fluorescence-coupled competitive primer extension. Fauser S, et al. **Biotechniques** 1997 May;22(5):964–8

Multiple fluorescence-based PCR-SSCP analysis using internal fluorescent labeling of PCR products. Iwahana H, et al. **Biotechniques** 1996 Sep;21(3):510–4, 516–9

Automated differential display using a fluorescently labeled universal primer. Smith NR, et al. **Biotechniques** 1997 Aug; 23(2):274–9

Nonradioisotopic PCR heteroduplex analysis: a rapid, reliable method of detecting minor gene mutations. Xing Y, et al. **Biotechniques** 1996 Aug;21(2):186–7

Elucidation of N-linked oligosaccharide structures of recombinant human factor VIII using fluorophore-assisted carbohydrate electrophoresis. Kumar HP, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):207–16

Fluoro-Green and Fluoro-Red: two new fluorescent retrograde tracers with a number of unique properties. Dong K, et al. **Brain Res** 1996 Oct 14;736(1–2):61–7

High-resolution fluorescent labeling of living cerebellar slices. Schreurs BG, et al. **Brain Res** 1996 Aug 19; 730(1–2):125–32

A novel fluorochrome for the microscopic observation of microbial morphology in wet mounts. Chan EC, et al. **Can J Microbiol** 1996 Aug;42(8):875–9

Comparison of daunorubicin and Fluo-3 for detection of multidrug resistance in human tumor cells. Gheuens EE, et al. **Cancer Detect Prev** 1997;21(1):78–82

Quantification of tumour cell-endothelial cell attachment by 1,1'-dioctadecyl-3,3,3',3'-tetramethylindocarbocyanine (DiI). Hiscox S, et al. **Cancer Lett** 1997 Jan 30;112(2):209–17

Non-hyperbolic calcium calibration curve of Fura-2: implications for the reliability of quantitative Ca2+ measurements. Henke W, et al. **Cell Calcium** 1996 Sep; 20(3):287–92

Quantification of intraluminal free [Ca] in the agonist-sensitive internal calcium store using compartmentalized fluorescent indicators: some considerations. Hofer AM, et al. **Cell Calcium** 1996 Sep; 20(3):235–42

Can the Indo-1 fluorescence approach measure brain intracellular calcium in vivo? A multiparametric study of cerebrocortical anoxia and ischemia. Ligeti L, et al. **Cell Calcium** 1997 Feb;21(2):115–24

Improved indicators of cell membrane potential that use fluorescence resonance energy transfer. González JE, et al. **Chem Biol** 1997 Apr;4(4):269–77

Assay of plasma homocysteine: light sensitivity of the fluorescent 7-benzo-2-oxa-1, 3-diazole-4-sulfonic acid derivative, and use of appropriate calibrators. Dudman NP, et al. **Clin Chem** 1996 Dec;42(12):2028–32

Quantitative polymerase chain reaction-based homogeneous assay with fluorogenic probes to measure c-erbB-2 oncogene amplification. Gelmini S, et al. **Clin Chem** 1997 May;43(5):752–8

4-Pentafluoroethylumbelliferyl-beta-D-glucoside as a new fluorogenic substrate for acid beta-D-glucosidase. Tsvetkova IV, et al. **Clin Chim Acta** 1996 Apr 30; 248(2):125–33

Confocal imaging of the keratocyte network in porcine cornea using the fixable vital dye 5-chloromethylfluorescein diacetate. Poole CA, et al. **Curr Eye Res** 1996 Feb;15(2):165–74

Energy-transfer fluorescent reagents for DNA analyses. Glazer AN, et al. **Curr Opin Biotechnol** 1997 Feb; 8(1):94–102 (46 ref.)

A novel multicolor hybridization scheme applied to localization of a transcribed sequence (D10S170/H4) and deletion mapping in the thyroid cancer cell line TPC-1. Jossart GH, et al. **Cytogenet Cell Genet** 1996;75(4):254–7

Horseradish peroxidase-labeled oligonucleotides and fluorescent tyramides for rapid detection of

chromosome-specific repeat sequences. van Gijlswijk RP, et al. **Cytogenet Cell Genet** 1996;75(4):258–62

Assessment of the effects of gramicidin, formaldehyde, and surfactants on Escherichia coli by flow cytometry using nucleic acid and membrane potential dyes. Comas J, et al. **Cytometry** 1997 Sep 1;29(1):58–64

Improved single laser measurement of two cellular antigens and DNA–ploidy by the combined use of propidium iodide and TO–PRO–3 iodide. Corver WE, et al. **Cytometry** 1997 Aug 1;28(4):329–36

Fluorescent brighteners: novel stains for the flow cytometric analysis of microorganisms. Davey HM, et al. **Cytometry** 1997 Aug 1;28(4):311–5

Improved fetal nucleated erythrocyte sorting purity using intracellular antifetal hemoglobin and Hoechst 33342. DeMaria MA, et al. **Cytometry** 1996 Sep 1;25(1):37–45

Use of selective binding of fluorescein isothiocyanate to detect eosinophils by flow cytometry [letter] Efthimiadis A, et al. **Cytometry** 1996 Mar 15;26(1):75–6

Analysis of tumor thiol concentrations: comparison of flow cytometric with chemical and biochemical techniques. Horan AD, et al. **Cytometry** 1997 Sep 1;29(1):76–82

Accessibility of 7-aminoactinomycin D to lymphocyte nuclei after paraformaldehyde fixation. Lindén E, et al. **Cytometry** 1997 Jan 1;27(1):92–5

Comparison of Vindelov et al. and bromodeoxyuridine/DNA double-staining flow cytometry methods for analysis of cell cycle distribution in rat thymocytes. Orfao A, et al. **Cytometry** 1996 Sep 1;25(1):104–8

A flow cytometric method for measurement of intracellular chloride concentration in lymphocytes using the halide-specific probe 6-methoxy-N-(3-sulfopropyl) quinolinium (SPQ). Pilas B, et al. **Cytometry** 1997 Aug 1; 28(4):316–22

Detection of apoptosis in live cells by MitoTracker red CMXRos and SYTO dye flow cytometry. Poot M, et al. **Cytometry** 1997 Apr 1;27(4):358–64

A method to determine the filter matrix in four-dye fluorescence-based DNA sequencing. Huang W, et al. **Electrophoresis** 1997 Jan;18(1):23–5

Binding of 1-anilinonaphthalene-8-sulfonic acid to alpha-crystallin. Stevens A, et al. **Eur J Biochem** 1997 Feb 1;243(3):792–7

Ethidium bromide fluorescence photo-enhancement in glycerol. Galassi L. **Eur J Histochem** 1996;40(4):323–30

JC-1, but not DiOC6(3) or rhodamine 123, is a reliable fluorescent probe to assess delta psi changes in intact cells: implications for studies on mitochondrial functionality during apoptosis. Salvioli S, et al. **FEBS Lett** 1997 Jul 7; 411(1):77–82

Acridine orange as an indicator of bacterial susceptibility to gentamicin. Mason DJ, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):199–204

Multiplex amplification of STR loci with gender alleles using infrared fluorescence detection. Steffens DL, et al. **Forensic Sci Int** 1997 Mar 14;85(3):225–32

Assessment of the C-525 laser dye as a chemiluminescence sensitizer for lipid peroxidation in biological membranes: a comparison with chlorophyll-a. Sharov VS, et al. **Free Radic Biol Med** 1996;21(6):833–43

High-throughput microsatellite analysis using fluorescent dUTPs for high-resolution genetic mapping of the mouse genome. Rhodes M, et al. **Genome Res** 1997 Jan;7(1):81–6

A DNA microarray system for analyzing complex DNA samples using two-color fluorescent probe hybridization. Shalon D, et al. **Genome Res** 1996 Jul;6(7):639–45

An infrared fluorescent dATP for labeling DNA. Steffens DL, et al. **Genome Res** 1995 Nov;5(4):393–9

Linkage analysis with multiplexed short tandem repeat polymorphisms using infrared fluorescence and M13 tailed primers. Oetting WS, et al. **Genomics** 1995 Dec 10; 30(3):450–8

Differences in phycoerythrin- or fluorescein-isothiocyanate conjugated 8G12 on CD34+ cell evaluation. Ortuño F, et al. **Haematologica** 1997 May-Jun;82(3):334–5

Evaluation of five green fluorescence-emitting streptavidin-conjugated fluorochromes for use in immunofluorescence microscopy. Benchaib M, et al. **Histochem Cell Biol** 1996 Aug;106(2):253–6

A new version of the Ag-NOR technique. A combination with DAPI staining. Biliński SM, et al. **Histochem J** 1996 Sep;28(9):651–6

Frequency analysis of multidrug resistance-1 gene transfer into human primitive hematopoietic progenitor cells using the cobblestone area-forming cell assay and detection of vector-mediated P-glycoprotein expression by rhodamine-123. Fruehauf S, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1219–31

The Acridine Orange test: a clinically relevant screening method for sperm quality during infertility investigation? Eggert-Kruse W, et al. **Hum Reprod** 1996 Apr;11(4):784–9

Ratiometric measurement of intracellular pH of cultured cells with BCECF in a fluorescence multi-well plate reader. Grant RL, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr; 33(4):256–60

The use of flow cytometry and fluorescein-labeled antibodies to measure specific milk proteins in bovine mammary epithelial cells. Keys JE, et al. **In Vitro Cell Dev Biol Anim** 1997 Mar;33(3):201–5

A simple luciferase assay to measure atp levels in small numbers of cells using a fluorescent plate reader [letter] Turman MA, et al. **In Vitro Cell Dev Biol Anim** 1996 Jan; 32(1):1–4

Fluorogenic and chromogenic enzyme substrates in culture media and identification tests. Manafi M. **Int J Food Microbiol** 1996 Aug;31(1–3):45–58 (72 ref.)

Microbial quality of lamb carcasses during processing and the acridine orange direct count technique (a modified DEFT) for rapid enumeration of total viable counts. Sierra ML, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):61–7

Effect of fluorescent powder on Lutzomyia longipalpis (Diptera: Psychodidae) and a simple device for marking sand flies. Pardo RH, et al. **J Am Mosq Control Assoc** 1996 Jun;12(2 Pt 1):235–42

Sequence verification by hybridisation with fluorescent octanucleotides as a first step to a fluorescent sequencing by hybridisation protocol. Eickhoff H, et al. **J Biochem Biophys Methods** 1996 Apr;32(1):59–68

A fluorogenic substrate for beta-glucuronidase: applications in fluorometric, polyacrylamide gel and histochemical assays. Zhou M, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):197–205

Detection in living cells of Ca2+-dependent changes in the fluorescence emission of an indicator composed of two green fluorescent protein variants linked by a calmodulin-binding sequence. A new class of fluorescent indicators. Romoser VA, et al. **J Biol Chem** 1997 May 16; 272(20):13270–4

3,4-Dimethoxybenzylamine as a sensitive pre-column fluorescence derivatization reagent for the determination of serotonin in human platelet-poor plasma. Ishida J, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):31–6

Determination of simvastatin and its active metabolite in human plasma by column-switching high-performance liquid chromatography with fluorescence detection after derivatization with 1-bromoacetylpyrene. Ochiai H, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):211–7

Determination of erythromycin in urine and plasma using microbore liquid chromatography with tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence detection. Ridlen JS, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):393–400

2-(5-hydrazinocarbonyl-2-oxazolyl)-5,6-dimethoxybenzothiazole as a precolumn fluorescence derivatization reagent for carboxylic acids in high-performance liquid chromatography and its application to the assay of fatty acids in human serum. Saito M, et al. **J Chromatogr B Biomed Appl** 1995 Dec 15; 674(2):167–75

Development of a sensitive method for quantitation of ABT-089 in plasma using fluorescence labeling with 7-fluoro-4-nitrobenzo-2-oxa-1,3-diazole. Hui YH, et al. **J Chromatogr B Biomed Sci Appl** 1997 Aug 1;695(2):337–47

Infrared fluorescent detection of PCR amplified gender identifying alleles. Roy R, et al. **J Forensic Sci** 1997 May; 42(3):452–60

Quadruple immunofluorescence: a direct visualization method. Ferri GL, et al. **J Histochem Cytochem** 1997 Feb; 45(2):155–8

A procedure for in situ hybridization combined with retrograde labeling of neurons: application to the study of cell adhesion molecule expression in DiI-labeled rat pyramidal neurons. Fujimori KE, et al. **J Histochem Cytochem** 1997 Mar;45(3):455–9

Characterization of acidic vesicles in multidrug-resistant and sensitive cancer cells by acridine orange staining and confocal microspectrofluorometry. Millot C, et al. **J Histochem Cytochem** 1997 Sep;45(9):1255–64

Analysis of mitochondrial morphology and function with novel fixable fluorescent stains. Poot M, et al. **J Histochem Cytochem** 1996 Dec;44(12):1363–72

A new fluorescence reaction in DNA cytochemistry: microscopic and spectroscopic studies on the aromatic diamidino compound M&B 938. Stockert JC, et al. **J Histochem Cytochem** 1997 Jan;45(1):97–105

DNA staining for fluorescence and laser confocal microscopy. Suzuki T, et al. **J Histochem Cytochem** 1997 Jan;45(1):49–53

The use of Apostain in identifying early apoptosis. Ferlini C, et al. **J Immunol Methods** 1997 Jun 23;205(1):95–101

Tracking of dye-labeled lymphocytes in rhesus macaques. Salvato MS, et al. **J Med Primatol** 1996 Apr;25(2):112–21

Toluidine blue-O is a Nissl bright-field counterstain for lipophilic fluorescent tracers Di-ASP, DiI and DiO. Chelvanayagam DK, et al. **J Neurosci Methods** 1997 Mar; 72(1):49–55

Dextran backfill tracers combined with Lucifer yellow injections for neuroanatomic studies of the leech head ganglion. Daberkow DP, et al. **J Neurosci Methods** 1996 Aug;67(2):149–55

Dual staining assessment of Schwann cell viability within whole peripheral nerves using calcein-AM and ethidium homodimer. Decherchi P, et al. **J Neurosci Methods** 1997 Feb;71(2):205–13

Marking microelectrode penetrations with fluorescent dyes. DiCarlo JJ, et al. **J Neurosci Methods** 1996 Jan;64(1):75–81

Vital staining from dye-coated microprobes identifies new olfactory interneurons for optical and electrical recording. Gelperin A, et al. **J Neurosci Methods** 1997 Mar; 72(1):97–108

Oxygen-enriched photoconversion of fluorescent dyes by means of a closed conversion chamber. Kacza J, et al. **J Neurosci Methods** 1997 Feb;71(2):225–32

Persistent neuronal labeling by retrograde fluorescent tracers: a comparison between Fast Blue, Fluoro-Gold and various dextran conjugates. Novikova L, et al. **J Neurosci Methods** 1997 Jun 6;74(1):9–15

A reliable and sensitive method for fluorescent photoconversion. Singleton CD, et al. **J Neurosci Methods** 1996 Jan;64(1):47–54

Measurement of the rate of myelination using a fluorescent analogue of ceramide. Bilderback TR, et al. **J Neurosci Res** 1997 Aug 15;49(4):497–507

Use of the novel carbocyanine tracer fast-DiI for investigating upper respiratory tract cranial nerves in prenatal rats. Friedland DR, et al. **Lab Anim Sci** 1996 Apr; 46(2):220–5

Fluorescence probes for studying membrane heterogeneity. Davenport L. **Methods Enzymol** 1997;278:487–512 (91 ref.)

Mechanism of leakage of contents of membrane vesicles determined by fluorescence requenching. Ladokhin AS, et al. **Methods Enzymol** 1997;278:474–86 (17 ref.)

Distribution analysis of depth-dependent fluorescence quenching in membranes: a practical guide. Ladokhin AS. **Methods Enzymol** 1997;278:462–73 (27 ref.)

Preparation of bifluorescent-labeled glycopeptides for glycoamidase assay. Lee KB, et al. **Methods Enzymol** 1997; 278:512–9

Intramolecular pyrene excimer fluorescence: a probe of proximity and protein conformational change. Lehrer SS. **Methods Enzymol** 1997;278:286–95 (18 ref.)

Preparation of fluorescence-labeled neoglycolipids for ceramide glycanase assays. Matsuoka K, et al. **Methods Enzymol** 1997;278:519–28 (20 ref.)

Long-lifetime metal-ligand complexes as probes in biophysics and clinical chemistry. Terpetschnig E, et al. **Methods Enzymol** 1997;278:295–321 (49 ref.)

N-terminal modification of proteins for fluorescence measurements. Wu P, et al. **Methods Enzymol** 1997; 278:321–30 (17 ref.)

Fluorescence resonance energy transfer as a probe of DNA structure and function. Yang M, et al. **Methods Enzymol** 1997;278:417–44 (81 ref.)

Enzymatic fluorescence and biotin labeling of primers for PCR sequencing. Igloi GL. **Methods Mol Biol** 1996;65:23–8

Nystatin-rhodamine B assay for estimating activity of killer toxin from Kluyveromyces lactis. Palková Z, et al. **Methods Mol Biol** 1996;53:325–9 (5 ref.)

Rhodamine B assay for estimating activity of killer toxins permeabilizing cytoplasmic membranes. Vondrejs V, et al. **Methods Mol Biol** 1996;53:319–24 (4 ref.)

Assay of neuropeptidases using fluorogenic substrates. Williams CH. **Methods Mol Biol** 1997;73:361–8

Calcofluor white stain for the detection of Pneumocystis carinii in transbronchial lung biopsy specimens: a study of 68 cases [see comments] Fraire AE, et al. **Mod Pathol** 1996 Aug;9(8):861–4. Comment in: Mod Pathol 1997 Apr;10(4):395–6.

Correspondence re: Fraire AE, Kemp B, Greenberg SD, Kim H-S, Estrada R, McBride RA. Calcofluor white stain for the detection of Pneumocystis carinii in transbronchial lung biopsy specimens: a study of 68 cases. Mod pathol 1996;9:861–4 [letter; comment] Harrington BJ, et al. **Mod Pathol** 1997 Apr;10(4):395–6. Comment on: Mod Pathol 1996 Aug;9(8):861–4.

The analysis of fluorophore-labeled carbohydrates by polyacrylamide gel electrophoresis. Jackson P. **Mol Biotechnol** 1996 Apr;5(2):101–23 (180 ref.)

Prediction of drug cytotoxicity in 9L rat brain tumor by using flow cytometry with a deoxyribonucleic acid-binding dye. Iwadate Y, et al. **Neurosurgery** 1997 Apr;40(4):782–7; discussion 787–8

Real-time imaging of the reorientation mechanisms of YOYO-labelled DNA molecules during 90 degrees and 120 degrees pulsed field gel electrophoresis. Gurrieri S, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4759–67

Fluorescence detection of specific sequence of nucleic acids by oxazole yellow-linked oligonucleotides. Homogeneous quantitative monitoring of in vitro transcription. Ishiguro T, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4992–7

Ligation mediated fluorescent labeling of DNA sequencing primers. Jang GY, et al. **Nucleic Acids Res** 1997 Feb 15; 25(4):922–3

SYBR Green I staining of pulsed field agarose gels is a sensitive and inexpensive way of quantitating DNA double-strand breaks in mammalian cells. Kiltie AE, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2945–6

Precise assessment of microsatellite instability using high resolution fluorescent microsatellite analysis. Oda S, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3415–20

Chemical methods of DNA and RNA fluorescent labeling. Proudnikov D, et al. **Nucleic Acids Res** 1996 Nov 15; 24(22):4535–42

Fluorophores for labeling of DNA/RNA fragments. Dubey KK, et al. **Nucleic Acids Symp Ser** 1995;(34):177–8

Influence of fluorescent labelling of polystyrene particles on phagocytic uptake, surface hydrophobicity, and plasma protein adsorption. Müller RH, et al. **Pharm Res** 1997 Jan; 14(1):18–24

Processing of fluorescently labelled insulin and insulin-like growth factor-I by the rat visceral yolk sac. Cowley EA, et al. **Placenta** 1996 Jul-Aug;17(5–6):321–7

Profluorescent protease substrates: intramolecular dimers described by the exciton model. Packard BZ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11640–5

Construction, properties and specific fluorescent labeling of

a bovine prothrombin mutant engineered with a free C-terminal cysteine. Chen Q, et al. **Protein Eng** 1996 Jun; 9(6):545–53

Changes in distribution of labile zinc in mouse spermatozoa during maturation in the epididymis assessed by the fluorophore Zinquin. Zalewski PD, et al. **Reprod Fertil Dev** 1996;8(7):1097–105

Assessment of viability of yeast by flow cytometry using Light Green as vital dye exclusion. Alvarado-Aleman FJ, et al. **Rev Latinoam Microbiol** 1996 Jan-Mar;38(1):25–30

Ex vivo PKH26-labelling of lymphocytes for studies of cell migration in vivo. Johnsson C, et al. **Scand J Immunol** 1997 May;45(5):511–4

Monitoring secretion in real time: capacitance, amperometry and fluorescence compared. Angleson JK, et al. **Trends Neurosci** 1997 Jul;20(7):281–7 (57 ref.)

Chlortetracycline fluorescence patterns and in vitro fertilisation of frozen-thawed boar spermatozoa incubated under various bicarbonate concentrations. Abeydeera LR, et al. **Zygote** 1997 May;5(2):117–25

[Analysis of human DNA fingerprints by using fluorescein labelled probe JH12.6] Shen B, et al. **I Chuan Hsueh Pao** 1995;22(3):167–70 (Eng. Abstr.) **(Chi)**

[Development of calcium fluorescent probes and their application in life sciences] Zhang CL, et al. **Sheng Li Ko Hsueh Chin Chan** 1996 Jan;27(1):37–42 (19 ref.) (Eng. Abstr.) **(Chi)**

[Angiography by scanning laser ophthalmoscope with fluorescein compounds of different physicochemical properties] Mori K, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr;101(4):318–26 (Eng. Abstr.) **(Jpn)**

[A novel quantitative PCR with fluorogenic probe] Isono K. **Rinsho Byori** 1997 Mar;45(3):218–23 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Tracer molecules and caged compounds] Furuno T. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1122–7 (21 ref.) **(Jpn)**

[Visualization of protein molecules using fluorescence-labeled bioactive compounds] Hiratsuka T. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1069–74 (15 ref.) **(Jpn)**

[Fluorescent nucleotides: their applications for studies on the structure and function of proteins] Hiratsuka T. **Tanpakushitsu Kakusan Koso** 1997 Jan;42(1):64–72 (195 ref.) **(Jpn)**

[Nuclear transport visualized by protein tagging systems including GFP] Kimata Y, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1187–92 (24 ref.) **(Jpn)**

[Selective chemical modification of cytochrome P450scc (CYP11A1) with diiodofluorescein iodoacetamide in the study of the role and topology of interdomain hinge of the hemoprotein molecule] Chernogolov AA, et al. **Biokhimiia** 1996 Dec;61(12):2103–15 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Distribution of Fluoro-Gold (FG) in the central nervous system of the rat following its injection into the cerebello-medullary cistern. Szabados G, et al. **Acta Biol Hung** 1996;47(1–4):411–8

AM-loading of fluorescent Ca2+ indicators into intact single fibers of frog muscle. Zhao M, et al. **Biophys J** 1997 Jun; 72(6):2736–47

Osteotropic drug delivery system (ODDS) based on bisphosphonic prodrug. I: synthesis and in vivo characterization of osteotropic carboxyfluorescein. Fujisaki J, et al. **J Drug Target** 1995;3(4):273–82

Importance of photo activation of rose bengal for platelet activation in experimental models of photochemically induced thrombosis. Inamo J, et al. **Thromb Res** 1996 Aug 1;83(3):229–35

[Experimental study of detection of brain tumor at surgery using fluorescent imaging under a surgical microscope after fluorescein administration] Kabuto M, et al. **No To Shinkei** 1997 Mar;49(3):261–5 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Phototoxic reactions caused by sodium fluorescein. Danis RP, et al. **Am J Ophthalmol** 1997 May;123(5):694–6

Photosensitivity reaction to intravenously administered fluorescein. Lentner A, et al. **Photodermatol Photoimmunol Photomed** 1995 Aug; 11(4):178–9 (21 ref.)

ANALYSIS

Optimization of the reaction conditions for the peroxyoxalate chemiluminescence detection system of fluorescent compounds in HPLC. Imai K, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):73

Sensitive detection of near-infrared fluorescent dyes using high-performance liquid chromatography with peroxyoxalate chemiluminescence detection system. Kimoto K, et al. **Biomed Chromatogr** 1996 Jul-Aug; 10(4):189–90

Development of a new capillary electrophoresis-based fibre optic sensor. Stokes DL, et al. **Biomed Chromatogr** 1997 Jul-Aug;11(4):187–92

Selection of fluorescent ion indicators for simultaneous measurements of pH and Ca2+. Martínez-Zaguilán R, et al. **Cell Calcium** 1996 Apr;19(4):337–49

A novel method for monitoring Mycobacterium bovis BCG trafficking with recombinant BCG expressing green fluorescent protein. Luo Y, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):761–8

Imaging techniques: picture the world with kaleidoscope dyes. Paddock SW. **Curr Biol** 1997 Mar 1;7(3):R182–5 (30 ref.)

Membrane potential changes visualized in complete growth media through confocal laser scanning microscopy of bis-oxonol-loaded cells. Dall'Asta V, et al. **Exp Cell Res** 1997 Mar 15;231(2):260–8

Liquid chromatographic determination of acriflavine and proflavine residues in channel catfish muscle. Plakas SM, et al. **J AOAC Int** 1997 May-Jun;80(3):486–90

The use of peroxidase-mediated deposition of biotin-tyramide in combination with time-resolved fluorescence imaging of europium chelate label in immunohistochemistry and in situ hybridization. de Haas RR, et al. **J Histochem Cytochem** 1996 Oct;44(10):1091–9

Comparison of methods to determine chromophore concentrations from fluorescence spectra of turbid samples. Durkin AJ, et al. **Lasers Surg Med** 1996;19(1):75–89

Low mobility of the Ca2+ buffers in axons of cultured Aplysia neurons. Gabso M, et al. **Neuron** 1997 Mar; 18(3):473–81

Three-dimensional imaging of single molecules solvated in pores of poly(acrylamide) gels. Dickson RM, et al. **Science** 1996 Nov 8;.74(5289):966–9

Direct measurement of single-molecule diffusion and photodecomposition in free solution. Xu XH, et al. **Science** 1997 Feb 21;275(5303):1106–9

[Method for determining concentration of fluorescent probes binding to biological structures] Dobretsov GE. **Biofizika** 1996 Sep-Oct;41(5):1062–7 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Chemical synthesis of 4-trifluoromethylumbelliferyl-alpha-D-N-acetylneuraminic acid glycoside and its use for the fluorometric detection of poorly expressed natural and recombinant sialidases. Engstler M, et al. **Anal Biochem** 1997 Aug 1;250(2):176–80

Synthesis and spectral characterization of sulfhydryl-reactive fluorescent probes. Pouchnik DJ, et al. **Anal Biochem** 1996 Mar 1;235(1):26–35

Development of the FUN-1 family of fluorescent probes for vacuole labeling and viability testing of yeasts. Millard PJ, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2897–905

Preparation of succinimidyl and pentafluorophenyl active esters of 5- and 6-carboxyfluorescein. Adamczyk M, et al. **Bioconjug Chem** 1997 Mar-Apr;8(2):253–5

Nuclease activity and binding characteristics of a cationic "manganese porphyrin-bis(benzimidazole) dye (Hoechst 33258)" conjugate. Frau S, et al. **Bioconjug Chem** 1997 Mar-Apr;8(2):222–31

Poly(ethylene glycol) fluorescent linkers. Pendri A, et al. **Bioconjug Chem** 1995 Sep-Oct;6(5):596–8

Fluorescent taxoids. Guy R, et al. **Chem Biol** 1996 Dec; 3(12):1021–31

Design of sensitive fluorogenic substrates for human cathepsin D. Gulnik SV, et al. **FEBS Lett** 1997 Aug 18; 413(2):379–84

Synthesis and biology of a 7-nitro-2,1,3-benzoxadiazol-4-yl derivative of 2-phenylindole-3-acetamide: a fluorescent probe for the peripheral-type benzodiazepine receptor. Kozikowski AP, et al. **J Med Chem** 1997 Aug 1; 40(16):2435–9

Synthesis of N alpha-protected aminoacyl 7-amino-4-methyl-coumarin amide by phosphorous oxychloride and preparation of specific fluorogenic substrates for papain. Alves LC, et al. **Pept Res** 1996 Mar-Apr;9(2):92–6

Three-dimensional laser scanning two-photon fluorescence confocal microscopy of polymer materials using a new, efficient upconverting fluorophore. Bhawalkar JD, et al. **Scanning** 1996 Nov;18(8):562–6

An efficient stereoselective synthesis of 6-alpha-aminoestradiol: preparation of estradiol fluorescent probes. Adamczyk M, et al. **Steroids** 1997 Jun; 62(6):462–7

CHEMISTRY

New cationic fluorochromes from diaryloxazole scintillators: fluorescence of chromatin DNA induced by N-quaternary POPOP derivatives. Stockert JC, et al. **Acta Histochem** 1997 Jun;99(2):195–205

A simple assay for intracellular lipid-binding proteins using displacement of 1-anilinonaphthalene 8-sulfonic acid. Kane CD, et al. **Anal Biochem** 1996 Jan 15;233(2):197–204

Synthesis and luminescence spectral characterization of long-lifetime lipid metal-ligand probes [published erratum appears in Anal Biochem 1997 May 1;247(2):465] Li L, et al. **Anal Biochem** 1997 Jan 1;244(1):80–5

A novel method for determination of inorganic polyphosphates using the fluorescent dye fura-2. Lorenz B, et al. **Anal Biochem** 1997 Mar 15;246(2):176–84

Characterization of PicoGreen reagent and development of a fluorescence-based solution assay for double-stranded DNA quantitation. Singer VL, et al. **Anal Biochem** 1997 Jul 1;249(2):228–38

Time-resolved fluorescence microscopy could correct for probe binding while estimating intracellular pH. Srivastava A, et al. **Anal Biochem** 1997 Jul 1;249(2):140–6

Sodium Green as a potential probe for intracellular sodium imaging based on fluorescence lifetime. Szmacinski H, et al. **Anal Biochem** 1997 Aug 1;250(2):131–8

2-Methyl-3-oxo-4-phenyl-2,3-dihydrofuran-2-yl acetate: a fluorogenic reagent for detection and analysis of primary amines. Chen P, et al. **Anal Chem** 1997 Jul 15; 69(14):2806–11

Accessibility of the fluorescent reporter group in native, silica-adsorbed, and covalently attached acrylodan-labeled serum albumins. Ingersoll CM, et al. **Anal Chem** 1996 Sep 15;68(18):3194–8

Effects of pH and solvent on the fluorescence properties of biomedically important benzamides. Application to determination in drugs and in human urine. Buna M, et al. **Analyst** 1996 Nov;121(11):1551–6

Evolution of a specific fluorogenic derivatization of ivermectin for bioanalytical applications. A review. Fink DW, et al. **Analyst** 1996 Nov;121(11):1533–7 (12 ref.)

Simultaneous detection of the acrosomal status and viability of incubated ram spermatozoa using fluorescent markers. Sukardi S, et al. **Anim Reprod Sci** 1997 Mar;46(1-2):89–96

Internally consistent libraries of fluorogenic substrates demonstrate that Kex2 protease specificity is generated by multiple mechanisms. Rockwell NC, et al. **Biochemistry** 1997 Feb 18;36(7):1912–7

Laurdan properties in glycosphingolipid-phospholipid mixtures: a comparative fluorescence and calorimetric study. Bagatolli LA, et al. **Biochim Biophys Acta** 1997 Apr 3;1325(1):80–90

Different bindings of the minor groove ligands DAPI and Hoechst 33258 to multimers of the curved (CA4T4G) and noncurved (CT4A4G) DNA sequences. Caneva R, et al. **Biochim Biophys Acta** 1997 Aug 7;1353(2):93–7

Selective 'in synthesis' labelling of peptides by fluorochromes. Chersi A, et al. **Biochim Biophys Acta** 1997 Jul 19;1336(1):83–8

Optical detection of membrane dipole potential: avoidance of fluidity and dye-induced effects. Clarke RJ, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):223–39

Solvent relaxation behaviour of n-anthroyloxy fatty acids in PC-vesicles and paraffin oil: a time-resolved emission spectra study. Hutterer R, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):195–207

Interactions of cytochrome P450 2B4 with NADPH-cytochrome P450 reductase studied by fluorescent probe. Davydov DR, et al. **Biochimie** 1996; 78(8-9):734–43

Biotin-fluorophore conjugates with poly(ethylene glycol) spacers retain intense fluorescence after binding to avidin and streptavidin. Gruber HJ, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):552–9

Biotin-pyrene conjugates with poly(ethylene glycol) spacers are convenient fluorescent probes for avidin and streptavidin. Marek M, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):560–6

8-(omega-aminoalkyl)theophyllines and their use in preparing fluorescently labeled derivatives for applications in immunoassay. Yahioglu F, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):611–6

Determination of plasma total homocysteine and cysteine using HPLC with fluorescence detection and an ammonium 7-fluoro-2, 1, 3-benzoxadiazole-4-sulphonate (SBD-F) derivatization protocol optimized for antioxidant concentration, derivatization reagent concentration, temperature and matrix pH. Daskalakis I, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):205–12

Evolution of a specific fluorogenic derivatization of ivermectin. Fink DW, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):74

1-(5-Dimethylamino-1-naphthalenesulphonyl)-(S)-3-aminopyrrolidine (DNS-Apy) as a fluorescence chiral labelling reagent for carboxylic acid enantiomers. al-Kindy S, et al. **Biomed Chromatogr** 1997 May-Jun;11(3):137–42

Ultraviolet and fluorescence derivatization reagents for carboxylic acids suitable for high performance liquid chromatography: a review. Mukherjee PS, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):193–204 (114 ref.)

4-(N-hydrazinoformylmethyl-N-methyl)-amino-7-N, N-dimethylaminosulphonyl-2,1,3-benzoxadiazole (DBD-CO-Hz) as a precolumn fluorescence derivatization reagent for carboxylic acids in high-performance liquid chromatography. Santa T, et al. **Biomed Chromatogr** 1996 Jul-Aug;10(4):183–5

On-line diode laser based time-resolved fluorescence detection of labelled oligonucleotides in capillary gel electrophoresis. Sauer M, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):81–2

Determination of saccharides labelled with a fluorescent reagent, DBD-ProCZ, by liquid chromatography. Toyo'oka T, et al. **Biomed Chromatogr** 1997 May-Jun; 11(3):132–6

Light quenching of pyridine2 fluorescence with time-delayed pulses. Gryczynski I, et al. **Biophys Chem** 1997 May 21; 66(1):13–24

Reorientational properties of fluorescent analogues of the protein kinase C cofactors diacylglycerol and phorbol ester. Pap EH, et al. **Biophys Chem** 1996 Feb 8;58(3):255–66

The orientation of eosin-5-maleimide on human erythrocyte band 3 measured by fluorescence polarization microscopy. Blackman SM, et al. **Biophys J** 1996 Jul;71(1):194–208

Diffusion measurement of fluorescence-labeled amphiphilic molecules with a standard fluorescence microscope. Dietrich C, et al. **Biophys J** 1997 Apr;72(4):1701–10

7-nitrobenz-2-oxa-1,3-diazole-4-yl-labeled phospholipids in lipid membranes: differences in fluorescence behavior. Mazères S, et al. **Biophys J** 1996 Jul;71(1):327–35

Voltage-dependent translocation of R18 and DiI across lipid bilayers leads to fluorescence changes. Melikyan GB, et al. **Biophys J** 1996 Nov;71(5):2680–91

Highly selective acridine and ethidium staining of bacterial DNA and RNA. Bruno JG, et al. **Biotech Histochem** 1996 May;71(3):130–6

Detection of cell-surface antigens using antibody-conjugated fluorospheres (ACF): application for six-color immunofluorescence. Beavis AJ, et al. **Biotechniques** 1996 Sep;21(3):498–503

Substrate properties of fluorescent ribonucleotides in the terminal transferase-catalyzed labeling of DNA sequencing primers. Igloi GL. **Biotechniques** 1996 Dec;21(6):1084–92

Analysis of differential display RT-PCR products using fluorescent primers and GENESCAN software. Luehrsen KR, et al. **Biotechniques** 1997 Jan;22(1):168–74

Continuous fluorescence monitoring of rapid cycle DNA amplification. Wittwer CT, et al. **Biotechniques** 1997 Jan; 22(1):130–1, 134–8

A novel use for a carbodiimide compound for the fixation of fluorescent and non-fluorescent calcium indicators in situ following physiological experiments. Tymianski M, et al. **Cell Calcium** 1997 Mar;21(3):175–83

In vivo dynamics of myosin II in Dictyostelium by fluorescent analogue cytochemistry. Chu Q, et al. **Cell Motil Cytoskeleton** 1996;35(3):254–68

Site-directed mutagenesis enabled preparation of a functional fluorescent analog of profilin: biochemical characterization and localization in living cells. Tarachandani A, et al. **Cell Motil Cytoskeleton** 1996;34(4):313–23

Fluorescence signaling of ligand binding and assembly in metal-chelating lipid membranes. Maloney K, et al. **Chem Biol** 1996 Mar;3(3):185–92

The pretransition of dipalmitoyllecithin bilayers as probed by the fluorescent pyrrolopyrimidine, U-104067. Epps DE, et al. **Chem Phys Lipids** 1997 Apr 25;86(2):121–33

Enantiomeric perylene-glycerolipids as fluorogenic substrates for a dual wavelength assay of lipase activity and stereoselectivity. Zandonella G, et al. **Chirality** 1996; 8(7):481–89

Fluorescence spectra of DNA dyes measured in a flow cytometer. Asbury CL, et al. **Cytometry** 1996 Jul 1; 24(3):234–42

Simultaneous measurement of Ca2+ and pH by laser cytometry using fluo-3 and SNARF-1. Atsumi T, et al. **Cytometry** 1996 Jun 1;24(2):99–105

Quantification of apoptotic cells with fluorescein isothiocyanate-labeled annexin V in chinese hamster ovary cell cultures treated with cisplatin. Boersma AW, et al. **Cytometry** 1996 Jun 1;24(2):123–30

Interactive computer-aided assignment of multiple probes to cytogenetic bands by simultaneous dual color fluorescence in situ hybridization and DAPI banding. Burde S, et al. **Cytometry** 1996 Nov 1;25(3):295–300

Flow cytometric HLA-B27 typing using CD3 gating and molecules of equivalent soluble fluorochrome (MESF) quantitation. Chen JC, et al. **Cytometry** 1996 Dec 15; 26(4):286–92

Double fluorescent flow cytometric assessment of bacterial internalization and binding by epithelial cells. de Boer EC, et al. **Cytometry** 1996 Dec 1;25(4):381–7

Observation of single-cell fluorescence spectra in laser flow cytometry. Gauci MR, et al. **Cytometry** 1996 Dec 1; 25(4):388–93

A strategy for multiple immunophenotyping by image cytometry: model studies using latex microbeads labeled with seven streptavidin-bound fluorochromes. Gothot A, et al. **Cytometry** 1996 Jul 1;24(3):214–25

Nucleic acid specificity of an acridine derivative permits its use for flow cytometric analysis of the cell cycle. Jayat-Vignoles C, et al. **Cytometry** 1997 Feb 1;27(2):153–60

Chloromethyl-X-Rosamine is an aldehyde-fixable potential-sensitive fluorochrome for the detection of early apoptosis. Macho A, et al. **Cytometry** 1996 Dec 1; 25(4):333–40

Accuracy of least squares designed spatial FIR filters for segmentation of images of fluorescence stained cell nuclei. Price JH, et al. **Cytometry** 1996 Dec 1;25(4):303–16

Detection of apoptosis by flow cytometry of cells simultaneously stained for intracellular pH (carboxy SNARF-1) and membrane permeability (Hoechst 33342). Reynolds JE, et al. **Cytometry** 1996 Dec 1;25(4):349–57

Flow cytometric analysis of gelatinase B (MMP-9) activity using immobilized fluorescent substrate on microspheres. St-Pierre Y, et al. **Cytometry** 1996 Dec 1;25(4):374–80

Influence of fluorochrome labeling density on the photobleaching kinetics of fluorescein in microscopy. Song L, et al. **Cytometry** 1997 Mar 1;27(3):213–23

Detection of plasma membrane Ca(2+)-ATPase activity in mouse T lymphocytes by flow cytometry using fluo-3-loaded vesicles. Telford WG, et al. **Cytometry** 1996 Jul 1;24(3):243–50

Quantitative flow cytometric detection of specific microorganisms in soil samples using rRNA targeted fluorescent probes and ethidium bromide. Thomas JC, et al. **Cytometry** 1997 Mar 1;27(3):224–32

A novel assay to measure loss of plasma membrane asymmetry during apoptosis of adherent cells in culture. van Engeland M, et al. **Cytometry** 1996 Jun 1;24(2):131–9

Influence of optical probing with YOYO on the electrophoretic behavior of the DNA molecule. Carlsson C, et al. **Electrophoresis** 1996 Apr;17(4):642–51

Separation of 1-aminopyrene-3,6,8-trisulfonate-labeled asparagine-linked fetuin glycans by capillary gel electrophoresis. Guttman A, et al. **Electrophoresis** 1996 Feb;17(2):412–7

Capillary electrophoresis of herbicides: IV. Evaluation of octylmaltopyranoside chiral surfactant in the enantiomeric separation of fluorescently labeled phenoxy acid herbicides and their laser-induced fluorescence detection. Mechref Y, et al. **Electrophoresis** 1997 Feb;18(2):220–6

Separation of 8-aminonaphthalene-1,3,6-trisulfonate (ANTS)-labeled oligomers containing galacturonic acid by capillary electrophoresis: application to determining the substrate specificity of endopolygalacturonases. Mort AJ, et al. **Electrophoresis** 1996 Feb;17(2):379–83

High resolution slab gel electrophoresis of 8-amino-1,3,6-pyrenetrisulfonic acid (APTS) tagged oligosaccharides using a DNA sequencer. O'Shea MG, et al. **Electrophoresis** 1996 Apr;17(4):681–6

Determination of carbohydrates as their dansylhydrazine derivatives by capillary electrophoresis with laser-induced fluorescence detection. Perez SA, et al. **Electrophoresis** 1996 Feb;17(2):352–8

Field and pore size dependence of the electrophoretic mobility of DNA: a combination of fluorescence recovery after photobleaching and electric birefringence measurements. Tinland B, et al. **Electrophoresis** 1996 Jun; 17(6):1046–51

Automatic matrix determination in four dye fluorescence-based DNA sequencing. Yin Z, et al. **Electrophoresis** 1996 Jun;17(6):1143–50

Fluorescence spectral characteristics of novel asymmetric monomethine cyanine dyes in nucleic acid solutions. Timcheva II, et al. **FEBS Lett** 1997 Mar 24;405(2):141–4

Chromosome-specific panels of tri- and tetranucleotide microsatellite markers for multiplex fluorescent detection and automated genotyping: evaluation of their utility in pathology and forensics. Lindqvist AK, et al. **Genome Res** 1996 Dec;6(12):1170–6

Biological characteristics of the globular substance in the otoconial membrane of the guinea pig. Suzuki H, et al. **Hear Res** 1995 Oct;90(1-2):212–8

Development of a quantitative method for the study of apoptosis in peripheral blood. Tsangaris GT, et al. **In Vivo** 1996 Jul-Aug;10(4):435–43

Detection of Pneumocystis carinii with direct fluorescence antibody and calcofluor white stain. Aslanzadeh J, et al. **Infection** 1996 May-Jun;24(3):248–50

Improvement of calibration curve for determining peroxide values of food lipids by the modified ferrous oxidation-xylenol orange method. Burat KM, et al. **J AOAC Int** 1996 Jul-Aug;79(4):995–7

Novel fluorescence-photochrome labeling method in the study of biomembrane dynamics. Likhtenshtein GI, et al. **J Biochem Biophys Methods** 1996 Nov 15;33(2):117–33

Sensitive determination of nitrotyrosine in human plasma by isocratic high-performance liquid chromatography. Kamisaki Y, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):343–7

Improvements in a competition assay to detect scrapie prion protein by capillary electrophoresis. Schmerr MJ, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):29–35

Detection of the receptor for the human urokinase-type plasminogen activator using fluoresceinated uPA. Ciccocioppo R, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1307–13

The ELF-97 alkaline phosphatase substrate provides a bright, photostable, fluorescent signal amplification method for FISH. Paragas VB, et al. **J Histochem Cytochem** 1997 Mar; 45(3):345–57

Signal amplification in the detection of single-copy DNA and RNA by enzyme-catalyzed deposition (CARD) of the novel fluorescent reporter substrate Cy3.29-tyramide. Schmidt BF, et al. **J Histochem Cytochem** 1997 Mar; 45(3):365–73

Sensitive multicolor fluorescence in situ hybridization using catalyzed reporter deposition (CARD) amplification. Speel EJ, et al. **J Histochem Cytochem** 1997 Oct;45(10):1439–46

Fluorochrome-labeled tyramides: use in immunocytochemistry and fluorescence in situ hybridization. van Gijlswijk RP, et al. **J Histochem Cytochem** 1997 Mar;45(3):375–82

New fluorogenic triacylglycerol analogs as substrates for the determination and chiral discrimination of lipase activities. Duque M, et al. **J Lipid Res** 1996 Apr;37(4):868–76

Evaluation of fluorinated indole derivatives for electron-capture negative ionization mass spectrometry: application to the measurement of endogenous 5-methoxyindole-3-acetic acid in rat. Li P, et al. **J Mass Spectrom** 1996 Nov;31(11):1228–36

Monitoring by cis-parinaric fluorescence of free radical induced lipid peroxidation in aqueous liposome suspensions. Di Giulio A, et al. **J Microencapsul** 1996 Jul-Aug; 13(4):435–45

Chelation-enhanced fluorescence chemosensing of Pb(II), an inherently quenching metal ion. Chae MY, et al. **J Mol Recognit** 1996 Jul-Aug;9(4):297–303

Dye screening and signal-to-noise ratio for retrogradely transported voltage-sensitive dyes. Tsau Y, et al. **J Neurosci Methods** 1996 Dec 28;70(2):121–9

Sensitive detection of selected cholinergic channel activators derivatized with 7-fluoro-4-nitrobenzo-2-oxa-1,3-diazole. Hui Y, et al. **J Pharm Biomed Anal** 1995 Dec; 14(1-2):131–42

Physicochemical characterization of bisphosphonic carboxyfluorescein for osteotropic drug delivery. Fujisaki J, et al. **J Pharm Pharmacol** 1996 Aug;48(8):798–800

Dynamic fluorescence changes during photodynamic therapy in vivo and in vitro of hydrophilic Al(III) phthalocyanine tetrasulphonate and lipophilic Zn(II) phthalocyanine administered in liposomes. Rück A, et al. **J Photochem Photobiol B** 1996 Nov;36(2):127–33

Fusion of bovine leukemia virus with target cells monitored by R18 fluorescence and PCR assays. Zarkik S, et al. **J Virol** 1997 Jan;71(1):738–40

Spectroscopic properties of fluorescence dye fura-2 with various divalent cations. Hatae J, et al. **Jpn J Physiol** 1996 Oct;46(5):423–9

Fluorescent nucleotide analogs: synthesis and applications. Jameson DM, et al. **Methods Enzymol** 1997;278:363–90 (75 ref.)

Encoded combinatorial chemistry: binary coding using chemically robust secondary amine tags. Ni ZJ, et al. **Methods Enzymol** 1996;267:261–72

Modern bioassays using metal chelates as luminescent probes. Sammes PG, et al. **Nat Prod Rep** 1996 Feb;13(1):1–28 (125 ref.)

Bis-benzimidazole dyes, Hoechst 33258 and Hoechst 33342: radioiodination, facile purification and subcellular distribution. Harapanhalli RS, et al. **Nucl Med Biol** 1994 May;21(4):641–7

New energy transfer dyes for DNA sequencing. Lee LG, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2816–22

Stability, specificity and fluorescence brightness of multiply-labeled fluorescent DNA probes. Randolph JB, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2923–9

DNA transfer in a Biomphalaria glabrata embryonic cell line by DOTAP lipofection. Lardans V, et al. **Parasitol Res** 1996;82(6):574–6

Intracellular distribution and mechanism of delivery of oligonucleotides mediated by cationic lipids. Zelphati O, et al. **Pharm Res** 1996 Sep;13(9):1367–72

Two-color two-photon excitation of fluorescence. Lakowicz JR, et al. **Photochem Photobiol** 1996 Oct;64(4):632–5

On the possibility of evanescent wave excitation distal from a solid-liquid interface using light quenching. Lakowicz JR, et al. **Photochem Photobiol** 1996 Oct;64(4):636–41

Multiphoton fluorescence excitation: new spectral windows for biological nonlinear microscopy. Xu C, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10763–8

Characterization of the two myotoxin a isomers from the prairie rattlesnake (Crotalus viridis viridis) by capillary zone electrophoresis and fluorescence quenching studies. Nedelkov D, et al. **Toxicon** 1997 May;35(5):689–98

[The use of selective chemical modification of cytochrome P450scc (CYPXIA1) with fluorescein isothiocyanate for evaluation of intramolecular distances and conformational changes by fluorescent resonance energy transfer] Lepesheva GI, et al. **Biokhimiia** 1996 Aug;61(8):1395–407 (Eng. Abstr.) **(Rus)**

[Novel reagent for labeling of biomolecules—activated derivative of pyrene dichromophore with excimeric fluorescence] Balakin KV, et al. **Bioorg Khim** 1997 Jan; 23(1):33–41 (Eng. Abstr.) **(Rus)**

[Study of interactions of methemoglobin with liposomes using the fluorescent probe DSM and its derivatives] Gorbenko GP. **Ukr Biokhim Zh** 1996 May-Jun;68(3):111–6 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

A simple technique for introducing anterograde and retrograde tracers into the vestibular and cochlear sensory organs. Ramsay H, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):39–43

Assessment of esophageal leak with oral fluorescein. Brevetti GR, et al. **Am J Gastroenterol** 1997 Jan;92(1):165–6

Comparison of fluorescent consensus IgH PCR and allele-specific oligonucleotide probing in the detection of minimal residual disease in childhood ALL. Owen RG, et al. **Br J Haematol** 1997 May;97(2):457–9

Fluoro-Jade: a novel fluorochrome for the sensitive and reliable histochemical localization of neuronal degeneration. Schmued LC, et al. **Brain Res** 1997 Mar 14; 751(1):37–46

The applicability of hematoxylin-eosin staining plus fluorescence or confocal laser scanning microscopy to the study of elastic fibers in cartilages. de Carvalho HF, et al. **C R Acad Sci III** 1996 Nov;319(11):991–6

A highly sensitive model for quantification of in vivo tumor angiogenesis induced by alginate-encapsulated tumor cells. Hoffmann J, et al. **Cancer Res** 1997 Sep 1;57(17):3847–51

Focal increases in [Ca2+]i may account for apparent low Ca2+ sensitivity in swine carotid artery. Van Riper DA, et al. **Cell Calcium** 1996 Jun;19(6):501–8

A rapid and sensitive fluorometric screening assay using YO-PRO-1 to quantify tumour cell invasion through Matrigel. Gohla A, et al. **Clin Exp Metastasis** 1996 Oct; 14(5):451–8

Detection of Pneumocystis carinii in tracheal aspirates of

intubated patients using calcofluor-white (Fungi-Fluor) and immunofluorescence antibody (Genetic Systems) stains. Alvarez F, et al. **Crit Care Med** 1997 Jun; 25(6):948-52

Activation and repolarization patterns are governed by different structural characteristics of ventricular myocardium: experimental study with voltage-sensitive dyes and numerical simulations. Efimov IR, et al. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):512-30

Unique properties of cardiac action potentials recorded with voltage-sensitive dyes. Girouard SD, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1024-38

Fluorescent staining of kappa opioid receptors using naltrexamine derivatives and phycoerythrin. Lawrence DM, et al. **J Immunol Methods** 1997 Feb 28;201(2):173-81

Measurement of intracellular pH in human spermatozoa by flow cytometry with the benzo[c]xanthene dye SNAFL-1: a novel, single excitation, dual emission, molecular probe. Brook PF, et al. **Mol Hum Reprod** 1996 Jan;2(1):18-25

Evidence for breaches of the retinal vasculature in acquired immune deficiency syndrome angiopathy. A fluorescent microsphere study. Glasgow BJ. **Ophthalmology** 1997 May; 104(5):753-60

Patient tolerance and ocular surface staining characteristics of lissamine green versus rose bengal. Manning FJ, et al. **Ophthalmology** 1995 Dec;102(12):1953-7

Polychromatic labeling of otoconia for the investigation of calcium turnover. Takumida M, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jan-Feb;59(1):4-9

The rapid diagnosis of tinea capitis using calcofluor white. Honig PJ, et al. **Pediatr Emerg Care** 1996 Oct;12(5):333-5

Intraoperative biliary tree imaging with cholyl-lysyl-fluorescein: an experimental study in the rabbit. Oddi A, et al. **Surg Laparosc Endosc** 1996 Jun; 6(3):198-200

[The clinical value of fluorescence cystoscopy in the detection of superficial transitional epithelial cell carcinoma of the bladder] Jichlinski P, et al. **Ann Urol (Paris)** 1997; 31(1):43-8 (Eng. Abstr.) **(Fre)**

[The intraoperative visualization of the bile ducts by the use of fluorescent substances. A feasibility study] Oddi A, et al. **G Chir** 1996 Nov-Dec;17(11-12):620-3 (Eng. Abstr.) **(Ita)**

ISOLATION & PURIFICATION

Thiol-reactive, luminescent Europium chelates: luminescence probes for resonance energy transfer distance measurements in biomolecules. Heyduk E, et al. **Anal Biochem** 1997 Jun 1;248(2):216-27

METABOLISM

Correlation between rhodamine 123 accumulation and azole sensitivity in Candida species: possible role for drug efflux in drug resistance. Clark FS, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):419-25

Improved sensitivity of whole-cell hybridization by the combination of horseradish peroxidase-labeled oligonucleotides and tyramide signal amplification. Schönhuber W, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3268-73

Single molecule imaging of fluorophores and enzymatic reactions achieved by objective-type total internal reflection fluorescence microscopy. Tokunaga M, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):47-53

Selective loading of Rhod 2 into mitochondria shows mitochondrial Ca2+ transients during the contractile cycle in adult rabbit cardiac myocytes. Trollinger DR, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):738-42

Detection of an unfolding intermediate in alpha-urease with enhanced affinity for ANSA. Peters CD, et al. **Biochem Cell Biol** 1997;75(1):55-61

Characterization of the substrate specificity of the major cysteine protease (cruzipain) from Trypanosoma cruzi using a portion-mixing combinatorial library and fluorogenic peptides. Nery ED, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):427-33

Measurement of spontaneous transfer and transbilayer movement of BODIPY-labeled lipids in lipid vesicles. Bai J, et al. **Biochemistry** 1997 Jul 22;36(29):8840-8

L-type calcium channels: binding domains for dihydropyridines and benzothiazepines are located in close proximity to each other. Brauns T, et al. **Biochemistry** 1997 Mar 25;36(12):3625-31

Double-labeled fluorescent probes for 5' nuclease assays: purification and performance evaluation. Rudert WA, et al. **Biotechniques** 1997 Jun;22(6):1140-5

Fluorescent indicators give biased estimates of intracellular free calcium change in aggregating platelets: implication for studies with human von Willebrand factor. Kermode JC, et al. **Blood Cells Mol Dis** 1996;22(3):238-53

Formation, intracellular distribution and efflux of glutathione-bimane conjugates in drug-sensitive and -resistant MCF-7 cells. Millis KK, et al. **Cancer Chemother Pharmacol** 1997;40(2):101-11

Time course of calcium transients derived from Fura-2 fluorescence measurements in single fast twitch fibres of adult mice and rat myotubes developing in primary culture. Bakker AJ, et al. **Cell Calcium** 1997 May;21(5):359-64

Nucleoplasmic and cytoplasmic differences in the fluorescence properties of the calcium indicator Fluo-3. Perez-Terzic C, et al. **Cell Calcium** 1997 Apr;21(4):275-82

Effect of hydrogen peroxide on the binding of Merocyanine 540 to human erythrocytes. Lagerberg JW, et al. **Cell Mol Life Sci** 1997 Mar;53(3):257-62

Distribution and orientation of rhodamine-phalloidin bound to thin filaments in skeletal and cardiac myofibrils. Zhukarev V, et al. **Cell Motil Cytoskeleton** 1997; 37(4):363-77

Enantiomeric perylene-glycerolipids as fluorogenic substrates for a dual wavelength assay of lipase activity and stereoselectivity. Zandonella G, et al. **Chirality** 1996; 8(7):481-89

Detection of viable and non-viable cells in connective tissue explants using the fixable fluoroprobes 5-chloromethylfluorescein diacetate and ethidium homodimer-1. Poole CA, et al. **Connect Tissue Res** 1996; 33(4):233-41

Flow cytometric analysis of cytosolic pH of mesophyll cell protoplasts from the crabgrass Digitaria sanguinalis. Giglioli-Guivarc'h N, et al. **Cytometry** 1996 Mar 1; 23(3):241-9

DNA binding fluorochromes as probes for histone H1-chromatin interactions in situ. Loborg H, et al. **Cytometry** 1997 Jul 1;28(3):212-9

DiOC2(3) is not a substrate for multidrug resistance protein (MRP)-mediated drug efflux. Minderman H, et al. **Cytometry** 1996 Sep 1;25(1):14-20

Mitochondrial membrane potential measurement in rat cerebellar neurons by flow cytometry. Sureda FX, et al. **Cytometry** 1997 May 1;28(1):74-80

Molecular mechanism controlling the incorporation of fluorescent nucleotides into DNA by PCR. Zhu Z, et al. **Cytometry** 1997 Jul 1;28(3):206-11

Imaging of cAMP-dependent protein kinase activity in living neural cells using a novel fluorescent substrate. Higashi H, et al. **FEBS Lett** 1997 Sep 1;414(1):55-60

The hydrophobic probe 4,4'-bis(1-anilino-8-naphthalene sulfonic acid) is specifically photoincorporated into the N-terminal domain of alpha B-crystallin. Smulders RH, et al. **FEBS Lett** 1997 Jun 2;409(1):101-4

Studies on ion channel antagonist-binding sites in sunflower protoplasts. Vallée N, et al. **FEBS Lett** 1997 Jul 7; 411(1):115-8

Vitreous laser absorption following fluorescein angiography in diabetic patients. Azzolini C, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234(8):488-92

Subcellular distribution of protein kinase C in the living outer hair cell of the guinea pig cochlea. Ueda N, et al. **Hear Res** 1996 May;94(1-2):24-30

Cytoplasmic transport in Drosophila ovarian follicles: the migration of microinjected fluorescent probes through intercellular bridges depends neither on electrical charge nor on external osmolarity. Bohrmann J, et al. **Int J Dev Biol** 1997 Jun;41(3):499-507

Dansyl N-acetyl glucosamine as a precursor of fluorescent chitin: a method to detect fungal cell wall inhibitors. Carrano L, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):177-9

The heterogeneous interaction of substoichiometric TNP-ATP and F1-ATPase from Escherichia coli. Muneyuki E, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):940-5

Use of fluorescence probes to monitor function of the subunit proteins of the MexA-MexB-oprM drug extrusion machinery in Pseudomonas aeruginosa. Ocaktan A, et al. **J Biol Chem** 1997 Aug 29;272(35):21964-9

Ca2+ binding to troponin C in skinned skeletal muscle fibers assessed with caged Ca2+ and a Ca2+ fluorophore. Invariance of Ca2+ binding as a function of sarcomere length. Patel JR, et al. **J Biol Chem** 1997 Feb 28; 272(9):6018-27

Inhibition of restriction endonuclease activity by DNA binding fluorochromes. Meng X, et al. **J Biomol Struct Dyn** 1996 Jun;13(6):945-51

Nuclear pH gradient in mammalian cells revealed by laser microspectrofluorimetry. Seksek O, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):257-62

High-performance liquid chromatographic determination of lipoamidase (lipoyl-X hydrolase) activity with a novel substrate, lipoyl-6-aminoquinoline. Yoshikawa K, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1-2):41-7

Differential effects of deuterium oxide on the fluorescence lifetimes and intensities of dyes with different modes of binding to DNA. Sailer BL, et al. **J Histochem Cytochem** 1997 Feb;45(2):165-75

Use of a fluorescent analog of CDP-DAG in human skin fibroblasts: characterization of metabolism, distribution, and application to studies of phosphatidylinositol turnover. Salman M, et al. **J Lipid Res** 1997 Mar;38(3):482-90

Effects of absorption enhancers on the transport of model compounds in Caco-2 cell monolayers: assessment by confocal laser scanning microscopy. Sakai M, et al. **J Pharm Sci** 1997 Jul;86(7):779-85

Excited triplet state photophysics of the sulphonated aluminium phathalocyanines bound to human serum albumin. Foley MS, et al. **J Photochem Photobiol B** 1997 Mar;38(1):10-7

Functional assay of multidrug resistant cells using JC-1, a carbocyanine fluorescent probe. Kühnel JM, et al. **Leukemia** 1997 Jul;11(7):1147-55

Kinetics of formation of fluorescent products from hexanal and L-lysine in a two-phase system. Stapelfeldt H, et al. **Lipids** 1996 Nov;31(11):1125-32

Comparison of lucifer yellow leakage and cell-to-cell transfer following intracellular injection in normal and antisense Novikoff cells under treatment with low extracellular Ca2+. Liu TF, et al. **Methods Find Exp Clin Pharmacol** 1996 Oct;18(8):493-7

Fluorescent oligonucleotide rDNA probes that specifically bind to a common nanoflagellate, Paraphysomonas vestita. Rice J, et al. **Microbiology** 1997 May;143 (Pt 5):1717-27

The application of pH-sensitive fluorescent dyes in lactic acid bacteria reveals distinct extrusion systems for unmodified and conjugated dyes. Glaasker E, et al. **Mol Membr Biol** 1996 Jul-Sep;13(3):173-81

Template-directed dye-terminator incorporation (TDI) assay: a homogeneous DNA diagnostic method based on fluorescence resonance energy transfer. Chen X, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):347-53

Diffusion of microinjected markers across the parasitophorous vacuole membrane in cells infected with Eimeria nieschulzi (Coccidia, Apicomplexa). Werner-Meier R, et al. **Parasitol Res** 1997;83(6):611-3

Direct oxidation of polyunsaturated cis-parinaric fatty acid by phenoxyl radicals generated by peroxidase/H2O2 in model systems and in HL-60 cells. Ritov VB, et al. **Toxicol Lett** 1996 Oct;87(2-3):121-9

Brain-stem afferents upon retinal projecting isthmo-optic and ectopic neurons of the pigeon centrifugal visual system demonstrated by retrograde transneuronal transport of rhodamine beta-isothiocyanate. Miceli D, et al. **Vis Neurosci** 1997 Mar-Apr;14(2):213-24

PHARMACOKINETICS

Distribution of Fluoro-Gold (FG) in the central nervous system of the rat following its injection into the cerebello-medullary cistern. Szabados G, et al. **Acta Biol Hung** 1996;47(1-4):411-8

Impregnation of collagen corneal shields with liposomes: uptake and release of hydrophilic and lipophilic marker substances. Grammer JB, et al. **Curr Eye Res** 1996 Aug; 15(8):815-23

Dye spread through gap junctions in the corneal epithelium of the rabbit. Williams KK, et al. **Curr Eye Res** 1997 May; 16(5):445-52

Efficiency of P-glycoprotein-mediated exclusion of rhodamine dyes from multidrug-resistant cells is determined by their passive transmembrane movement rate. Eytan GD, et al. **Eur J Biochem** 1997 Aug 15;248(1):104-12

Rhodamine 123 accumulates extensively in the isolated perfused rat kidney and is secreted by the organic cation system. Masereeuw R, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):315-23

Movement of carboxyfluorescein across retinal pigment epithelium-choroid. Kimura M, et al. **Exp Eye Res** 1996 Jul;63(1):51-6

Loading and localization of Fluo-3 and Fluo-3/AM calcium indicators in sinapis alba root tissue. Tretyn A, et al. **Folia Histochem Cytobiol** 1997;35(1):41-51

Photodynamic activities and biodistribution of fluorinated zinc phthalocyanine derivatives in the murine EMT-6 tumour model. Allémann E, et al. **Int J Cancer** 1997 Jul 17;72(2):289-94

Osteotropic drug delivery system (ODDS) based on bisphosphonic prodrug. I: synthesis and in vivo characterization of osteotropic carboxyfluorescein. Fujisaki J, et al. **J Drug Target** 1995;3(4):273-82

Intracellular accumulation of rhodamine 110 in single living cells. Jeannot V, et al. **J Histochem Cytochem** 1997 Mar; 45(3):403-12

Dye screening and signal-to-noise ratio for retrogradely transported voltage-sensitive dyes. Tsau Y, et al. **J Neurosci Methods** 1996 Dec 28;70(2):121-9

Voltage-sensitive dye recording using retrogradely transported dye in the chicken spinal cord: staining and signal characteristics. Wenner P, et al. **J Neurosci Methods** 1996 Dec 28;70(2):111-20

Calcein is excreted from the intestinal mucosal cell membrane by the active transport system. Fujita T, et al. **Life Sci** 1997;60(4-5):307-13

Effects of monovalent cations, pH and temperature on the dissociation constant (KD) for the fluorescent indicator mag-fura-2 at different excitation wavelengths. Howarth FC, et al. **Magnes Res** 1995 Dec;8(4):299-306

Fluorescence lifetime measurements in confocal microscopy of neurons labeled with multiple fluorophores. Brismar H, et al. **Nat Biotechnol** 1997 Apr;15(4):373-7

Bis-benzimidazole dyes, Hoechst 33258 and Hoechst 33342: radioiodination, facile purification and subcellular distribution. Harapanhalli RS, et al. **Nucl Med Biol** 1994 May;21(4):641-7

Fluorescent characteristics and pharmacokinetic profiles of the fluorescent probe BCECF in various tissues: the role of blood content. Devoisselle JM, et al. **Photochem Photobiol** 1996 Dec;64(6):906-10

PHARMACOLOGY

Hoechst 33342-induced apoptosis in BC3H-1 myocytes. Zhang X, et al. **Ann Clin Lab Sci** 1997 Jul-Aug; 27(4):260-75

Improved four-color flow cytometry method using fluo-3 and triple immunofluorescence for analysis of intracellular calcium ion ([Ca2+]i) fluxes among mouse lymph node B- and T-lymphocyte subsets. Greimers R, et al. **Cytometry** 1996 Mar 1;23(3):205-17

Interactions of intercalating fluorochromes with DNA analyzed by conventional and fluorescence lifetime flow cytometry utilizing deuterium oxide. Sailer BL, et al. **Cytometry** 1996 Oct 1;25(2):164–72

The effect of dichlorotriazinyl aminofluorescein on human keratocytes in vitro. Wee WR, et al. **Korean J Ophthalmol** 1996 Dec;10(2):63–7

Sequential staining: the effects of sodium fluorescein, osmolarity, and pH on human corneal epithelium. Thomas ML, et al. **Optom Vis Sci** 1997 Apr;74(4):207–10

STANDARDS

The purity of fluorescent dyes: a report delivered to the scientific session of the annual meeting of the Biological Stain Commission. Horobin RW. **Biotech Histochem** 1997 Jan;72(1):33–7

THERAPEUTIC USE

Enzyme-assisted cell photosensitization: a proposal for an efficient approach to tumor therapy and diagnosis. The rose bengal fluorogenic substrate. Bottiroli G, et al. **Photochem Photobiol** 1997 Sep;66(3):374–83

TOXICITY

Analysis of the flow cytometer stain Hoechst 33342 on human spermatozoa. Watkins AM, et al. **Mol Hum Reprod** 1996 Sep;2(9):709–12

FLUORESCENT IN SITU HYBRIDIZATION see **IN SITU HYBRIDIZATION, FLUORESCENCE**

FLUORESCENT PROBES see **FLUORESCENT DYES**

FLUORESCENT PROTEIN TRACING see **FLUORESCENT ANTIBODY TECHNIQUE**

FLUORESCENT TREPONEMAL ANTIBODY-ABSORPTION TEST

[Differential evaluation of serologic syphilis reactions in the United States and Europe] Luger A. **Hautarzt** 1996 Aug; 47(8):643 **(Ger)**

FLUORIDATION

The effect of drinking water fluoridation on the natural course of hearing in patients with otosclerosis. Vartiainen E, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):747–50

Misusing the term 'artificial fluoridation' [letter; comment] Horowitz HS. **Am J Public Health** 1997 Jul;87(7):1235–6 . Comment on: Am J Public Health 1996 Sep;86(9):1310–7.

Prior fluoridation in childhood affects dental caries and tooth wear in a south east Queensland population. Teo C, et al. **Aust Dent J** 1997 Apr;42(2):92–102

It's their right not to fluoridate, but is it right? [editorial; comment] Short LM, et al. **Aust N Z J Public Health** 1996 Dec;20(6):563. Comment on: Aust N Z J Public Health 1996 Dec;20(6):623–9.

Caries experience among children in fluoridated Townsville and unfluoridated Brisbane [see comments] Slade GD, et al. **Aust N Z J Public Health** 1996 Dec;20(6):623–9. Comment in: Aust N Z J Public Health 1996 Dec;20(6):563.

Campaign calls for action on fluoridation [news] Beecham L. **BMJ** 1996 Nov 9;313(7066):1166

Water fluoridation, tooth decay in 5 year olds, and social deprivation measured by the Jarman score: analysis of data from British dental surveys. Jones CM, et al. **BMJ** 1997 Aug 30;315(7107):514–7

The continuing saga [editorial] [see comments] Grace M. **Br Dent J** 1996 Dec 7–21;181(11–12):391. Comment in: Br Dent J 1997 Feb 8;182(3):88.

Fluoride content of the enamel and dentine of human premolars prior to and following the introduction of fluoridation in New Zealand. Cutress TW, et al. **Caries Res** 1996;30(3):204–12

The influence of fluoridation of drinking water on the long-term hearing results of stapedectomy. Vartiainen E, et al. **Clin Otolaryngol** 1997 Feb;22(1):34–6

Proceedings of the International Symposium on Water Fluoridation. Birmingham, United Kingdom, 1–2 June 1995. **Community Dent Health** 1996 Sep;13 Suppl 2:1–71

Dental caries in children from two Libyan cities with different levels of fluoride in their drinking water. Hawew RM, et al. **Community Dent Health** 1996 Sep;13(3):175–7

The effect of fluoridation on populations in New Zealand [letter] Treasure ET. **Community Dent Oral Epidemiol** 1996 Jun;24(3):230

Plaque fluoride and mutans streptococci in plaque and saliva before and after discontinuation of water fluoridation. Seppä L, et al. **Eur J Oral Sci** 1996 Aug;104(4 (Pt 1)):353–8

Prediction of caries in pre-school children in relation to fluoride exposure. Twetman S, et al. **Eur J Oral Sci** 1996 Oct-Dec;104(5–6):523–8

Systemic fluorides apart from fluoride in water. Marthaler TM. **Fogorv Sz** 1997 Apr;90 Spec No:13–23

Efficacy of fluoride against dental caries; fluoride in water. O'Mullane D, et al. **Fogorv Sz** 1997 Apr;90 Spec No:7–12

Fluoridated drinking water, oestrogen therapy and residual ridge resorption. Klemetti E, et al. **J Oral Rehabil** 1997 Jan;24(1):47–51

Proceedings of the International Symposium of the 50th Anniversary of Water Fluoridation. Grand Rapids, Michigan, September 1995. **J Public Health Dent** 1996;56(5 Spec No):233–300

The effectiveness of community water fluoridation in the United States. Horowitz HS. **J Public Health Dent** 1996; 56(5 Spec No):253–8 (50 ref.)

Water fluoridation results in Basel since 1962: health and political implications. Marthaler TM. **J Public Health Dent** 1996;56(5 Spec No):265–70

The fluoridation war: a scientific dispute or a religious argument? Newbrun E. **J Public Health Dent** 1996;56(5 Spec No):246–52 (57 ref.)

The results of water fluoridation in Ireland. O'Mullane D, et al. **J Public Health Dent** 1996;56(5 Spec No):259–64

Fluoridation and the private practice of dentistry. Stevens RE Jr. **J Public Health Dent** 1996;56(5 Spec No):239–41

Does fluoridation reduce the use of dental services among adults? Grembowski D, et al. **Med Care** 1997 May; 35(5):454–71

Recommendations for the appropriate use of fluoride products. Tennessee Department of Health. Gillcrist JA. **Tenn Med** 1997 Jan;90(1):27–8

ADVERSE EFFECTS

New evidence on fluoridation [see comments] Diesendorf M, et al. **Aust N Z J Public Health** 1997 Apr;21(2):187–90 (57 ref.). Comment in: Aust N Z J Public Health 1997 Jun;21(3):345–6. Comment in: Aust N Z J Public Health 1997 Jun;21(3):346.

Need for evidence about fluoridation [letter] Herbison P. **Aust N Z J Public Health** 1997 Jun;21(3):344–5

Evidence on fluoridation [letter; comment] Jackman P. **Aust N Z J Public Health** 1997 Jun;21(3):346. Comment on: Aust N Z J Public Health 1997 Apr;21(2):187–90.

Evidence on fluoridation [letter; comment] Webb PM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):345–6. Comment on: Aust N Z J Public Health 1997 Apr;21(2):187–90.

Effects of fluoride level in drinking water, nutritional status, and socio-economic status on the prevalence of developmental defects of dental enamel in permanent teeth in Saudi 14-year-old boys. Rugg-Gunn AJ, et al. **Caries Res** 1997;31(4):259–67

The effect of fluoridation on the occurrence of hidden caries in clinically sound occlusal surfaces. Weerheijm KL, et al. **Caries Res** 1997;31(1):30–4

Does fluoridation harm immune function? Challacombe SJ. **Community Dent Health** 1996 Sep;13 Suppl 2:69–71 (15 ref.)

Cancer and fluoridation. Cook-Mozaffari P. **Community Dent Health** 1996 Sep;13 Suppl 2:56–62 (38 ref.)

Water fluoridation and osteoporotic fracture. Hillier S, et al. **Community Dent Health** 1996 Sep;13 Suppl 2:63–8 (23 ref.)

Relationship between fluoride concentration in drinking water and mortality rate from uterine cancer in Okinawa prefecture, Japan. Tohyama E. **J Epidemiol** 1996 Dec; 6(4):184–91

Effect of drinking water fluoridation on the prevalence of otosclerosis. Vartiainen E, et al. **J Laryngol Otol** 1997 Jan; 111(1):20–2

HISTORY

The dawn of a new era. Scott DB. **J Public Health Dent** 1996;56(5 Spec No):235–8

INSTRUMENTATION

Technical aspects of water fluoridation in the United States and an overview of fluoridation engineering world-wide. Reeves TG. **Community Dent Health** 1996 Sep;13 Suppl 2:21–6

METHODS

Technical aspects of water fluoridation in the United States and an overview of fluoridation engineering world-wide. Reeves TG. **Community Dent Health** 1996 Sep;13 Suppl 2:21–6

[A model outline of the organizational and medical measures for the introduction of milk fluoridation projects in different regions of Russia] Kolesnik AG. **Stomatologiia (Mosk)** 1996;Spec No:25–6 **(Rus)**

STANDARDS

Evidence on fluoridation [letter; comment] Jackman P. **Aust N Z J Public Health** 1997 Jun;21(3):346. Comment on: Aust N Z J Public Health 1997 Apr;21(2):187–90.

STATISTICS & NUMERICAL DATA

The US experience with fluoridation. Hinman AR, et al. **Community Dent Health** 1996 Sep;13 Suppl 2:5–9 (32 ref.)

Fluoridation—the Israel experience. Kelman AM. **Community Dent Health** 1996 Sep;13 Suppl 2:42–6 (14 ref.)

Thirty-eight years of water fluoridation—the Singapore scenario. Loh T. **Community Dent Health** 1996 Sep;13 Suppl 2:47–50 (21 ref.)

Fluoridation in South Africa. Moola MH. **Community Dent Health** 1996 Sep;13 Suppl 2:51–5 (43 ref.)

Obstacles to extending fluoridation in the United States. Neenan ME. **Community Dent Health** 1996 Sep;13 Suppl 2:10–20 (64 ref.)

Water fluoridation in Ireland. O'Mullane DM, et al. **Community Dent Health** 1996 Sep;13 Suppl 2:38–41 (22 ref.)

Water fluoridation in Australia. Spencer AJ, et al. **Community Dent Health** 1996 Sep;13 Suppl 2:27–37 (39 ref.)

TRENDS

Status and strategic plans for fluoridation: Centers for Disease Control and Prevention perspective. Reeves TG. **J Public Health Dent** 1996;56(5 Spec No):242–5

FLUORIDE POISONING

COMPLICATIONS

Reversal of fluorosis in children. Gupta SK, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):513–9

DIAGNOSIS

Compressive myelopathy in fluorosis: MRI. Gupta RK, et al. **Neuroradiology** 1996 May;38(4):338–42

ETIOLOGY

Fluoride mouthrinse [letter] Fayle S, et al. **Br Dent J** 1996 Feb 24;180(4):129

Skeletal fluorosis with delayed manifestations [letter] Bernardeau C, et al. **Rev Rhum Engl Ed** 1996 Jun; 63(6):459–60

FLUORIDE VARNISHES see **FLUORIDES, TOPICAL**

FLUORIDES

see related
FLUOROSIS, DENTAL

Mg2+ and other polyvalent cations catalyze nucleotide fluorolysis. London RE, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):332–40

Deliberations and evaluations of the approaches, endpoints and paradigms for boron, chromium and fluoride dietary recommendations. Hunt CD, et al. **J Nutr** 1996 Sep;126(9 Suppl):2441S–2451S

Fluoride exposure in cervids inhabiting areas adjacent to aluminum smelters in Norway. II. Fluorosis. Vikøren T, et al. **J Wildl Dis** 1996 Apr;32(2):181–9

Fluoride exposure and selected characteristics of eggs and bones of the herring gull (Larus argentatus) and the common gull (Larus canus). Vikøren T, et al. **J Wildl Dis** 1996 Apr;32(2):190–8

Fluoride exposure in cervids inhabiting areas adjacent to aluminum smelters in Norway. I. Residue levels. Vikøren T, et al. **J Wildl Dis** 1996 Apr;32(2):169–80

ADA statement on FDA toothpaste warning labels [news] **N Y State Dent J** 1997 Aug-Sep;63(7):50

Recommendations for the appropriate use of fluoride products. Tennessee Department of Health. Gillcrist JA. **Tenn Med** 1997 Jan;90(1):27–8

ADMINISTRATION & DOSAGE

Fluoride release and shear bond strengths of three light-cured glass ionomer cements. Ashcraft DB, et al. **Am J Orthod Dentofacial Orthop** 1997 Mar;111(3):260–5

In vitro evaluation of matrix-bound fluoride-releasing orthodontic bonding adhesives. Sinha PK, et al. **Am J Orthod Dentofacial Orthop** 1997 Mar;111(3):276–82

Determination of fluoride from fluoride-releasing elastomeric ligature ties [see comments] Wiltshire WA. **Am J Orthod Dentofacial Orthop** 1996 Oct;110(4):383–7. Comment in: Am J Orthod Dentofacial Orthop 1997 Apr;111(4):33A.

Aluminum potentiates P(i) transport stimulation induced by fluoride in osteoblast-like cells. Imai T, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E694–701

Influence of fluoride co-cystallized with sugar on caries development in desalivated rats. Rosalen PL, et al. **Arch Oral Biol** 1997 Apr;42(4):317–22

Fluoride supplement dosage. British Dental Association, the British Society of Paediatric Dentistry and the British Association for the Study of Community Dentistry [see comments] **Br Dent J** 1997 Jan 11;182(1):6–7. Comment in: Br Dent J 1997 Mar 22;182(6):206.

Pandora's box [letter; comment] Gebbie CJ. **Br Dent J** 1997 Feb 8;182(3):88. Comment on: Br Dent J 1996 Dec 7–21;181(11–12):391.

Fluoride supplement dosage [letter; comment] Hodgson A. **Br Dent J** 1997 Mar 22;182(6):206. Comment on: Br Dent J 1997 Jan 11;182(1):6–7.

Dietary fluoride supplement dosage [letter; comment] Holloway PJ. **Br Dent J** 1997 Apr 26;182(8):290. Comment on: Br Dent J 1997 Jan 25;182(2):48.

Non-evidence-based fluoride prescribing recommendations [letter] [see comments] Stephen KW. **Br Dent J** 1997 Jan 25;182(2):48. Comment in: Br Dent J 1997 Apr 26;182(8):290.

An in situ interproximal model for studying the effect of fluoride on enamel. Dunipace AJ, et al. **Caries Res** 1997; 31(1):60–70

The cessation of fluoridated water administration and the fluoride distribution profiles in rat molar cementum. Ito T, et al. **Caries Res** 1997;31(5):390–6

In vivo cariostatic effect of resin modified glass ionomer

cement and amalgam on dentine. Kreulen CM, et al. **Caries Res** 1997;31(5):384–9

Fluorides and oral health. Barmes DE. **Community Dent Health** 1996 Sep;13 Suppl 2:3–4

Developments in fluoride toothpastes—an overview. Holt RD, et al. **Community Dent Health** 1997 Mar;14(1):4–10 (42 ref.)

Caries prevalence and salt fluoridation among 9-year-old schoolchildren in Strasbourg, France. Fabien V, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):408–11

Lack of effect of long-term fluoride ingestion on blood chemistry and frequency of sister chromatid exchange in human lymphocytes. Jackson RD, et al. **Environ Mol Mutagen** 1997;29(3):265–71

A clinical evaluation of the effectiveness of including fluoride into an orthodontic bonding adhesive. Banks PA, et al. **Eur J Orthod** 1997 Aug;19(4):391–5

Topical fluorides (especially toothpaste). König KG. **Fogorv Sz** 1997 Apr;90 Spec No:24

Aluminum potentiates the effect of fluoride on tyrosine phosphorylation and osteoblast replication in vitro and bone mass in vivo. Caverzasio J, et al. **J Bone Miner Res** 1996 Jan;11(1):46–55

Comparison of recommended and actual mean intakes of fluoride by Canadians. Lewis DW, et al. **J Can Dent Assoc** 1996 Sep;62(9):708–9, 712–5

Total fluoride intake in children aged 3 to 4 years—a longitudinal study. Guha-Chowdhury N, et al. **J Dent Res** 1996 Jul;75(7):1451–7

Fluoride and silicon intake in normal and endemic fluorotic areas. Anasuya A, et al. **J Trace Elem Med Biol** 1996 Sep; 10(3):149–55

Fluoride levels in whole saliva of preschool children after brushing with 0.25 g (pea-sized) as compared to 1.0 g (full-brush) of a fluoride dentifrice. DenBesten P, et al. **Pediatr Dent** 1996 Jul–Aug;18(4):277–80

Effects of dietary fluoride and magnesium supplements on cyclic adenosine monophosphate (cAMP), calcium and magnesium levels in aorta of genetically hypercholesterolaemic RICO rats. Luoma H, et al. **Scand J Clin Lab Invest** 1997 Aug;57(5):421–5

[Fluoride against caries. Should toothpaste be a substitute for tablets in basic prophylaxis for children?] Løkken P, et al. **Tidsskr Nor Laegeforen** 1997 Feb 20;117(5):642–3 **(Nor)**

[The hygienic validation of the recommended values for fluoride consumption for the adult population] Vankhanen VV, et al. **Vopr Pitan** 1996;(1):19–21 (Eng. Abstr.) **(Rus)**

[Should fluoride supplementation be administered to infants? (see comments)] Marès Bermúdez J, et al. **An Esp Pediatr** 1996 Sep;45(3):236–41 (40 ref.). Comment in: An Esp Pediatr 1997 Mar;46(3):312. **(Spa)**

ADVERSE EFFECTS

Allergen sensitization and exposure to irritants in infancy. Søyseth V, et al. **Allergy** 1996 Oct;51(10):719–23

Safety issues related to the use of silver fluoride in paediatric dentistry. Gotjamanos T. **Aust Dent J** 1997 Jun;42(3):166–8

High fluoride intakes cause osteomalacia and diminished bone strength in rats with renal deficiency. Turner CH, et al. **Bone** 1996 Dec;19(6):595–601

The relationship between reported toothpaste usage in infancy and fluorosis of permanent incisors. Rock WP, et al. **Br Dent J** 1997 Sep 13;183(5):165–70

Supra-acetabular insufficiency fractures: role of fluoride treatment and vitamin D deficiency? [letter] Chary-Valckenaere I, et al. **Br J Rheumatol** 1997 May; 36(5):603–5

Dental fluorosis and the use of a high fluoride-containing trona tenderizer (magadi). Mabelya L, et al. **Community Dent Oral Epidemiol** 1997 Apr;25(2):170–6

Calculation of intercrystalline solution composition during in vitro subsurface lesion formation in dental minerals. Wang Z, et al. **J Pharm Sci** 1996 Jan;85(1):117–28

The metabolism and toxicity of fluoride. Whitford GM. **Monogr Oral Sci** 1996;16 Rev 2:1–153 (389 ref.)

Skeletal fluorosis with delayed manifestations [letter] Bernardeau C, et al. **Rev Rhum Engl Ed** 1996 Jun; 63(6):459–60

Endemic fluorosis in Guizhou Province, China [letter] Dasheng L, et al. **World Health Forum** 1996;17(2):173–4

[Endemic fluorosis in southern China: radiological findings] Watanabe T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jun;57(7):425–6 (Eng. Abstr.) **(Jpn)**

[Evaluation of bone mineral density in the distal radius of former workers employed at the Aluminum Works] Czerwiński E, et al. **Przegl Lek** 1997;54(4):269–71 (Eng. Abstr.) **(Pol)**

[Morphogenesis of occupational fluoride osteopathy] Razumov VV, et al. **Med Tr Prom Ekol** 1997;(4):18–23 (Eng. Abstr.) **(Rus)**

ANALYSIS

Variability in fluoride content of subsurface water reservoirs. Bårdsen A, et al. **Acta Odontol Scand** 1996 Dec;54(6):343–7

Salivary fluoride concentration in adults after different fluoride procedures. Seppä L, et al. **Acta Odontol Scand** 1997 Apr;55(2):84–7

Comment on determination of fluoride from ligature ties [letter; comment] [see comments] Miethke RR. **Am J Orthod Dentofacial Orthop** 1997 Apr;111(4):33A. Comment on: Am J Orthod Dentofacial Orthop 1996 Oct;110(4):383–7. Comment in: Am J Orthod Dentofacial Orthop 1997 Aug;112(2):17A.

Fluoride level in saliva after bonding orthodontic brackets with a fluoride containing adhesive. Ogaard B, et al. **Am J Orthod Dentofacial Orthop** 1997 Feb;111(2):199–202

Fluoride release from ligature ties [letter; comment] Wiltshire WA. **Am J Orthod Dentofacial Orthop** 1997 Aug; 112(2):17A. Comment on: Am J Orthod Dentofacial Orthop 1997 Apr;111(4):33A.

In vivo fluoride profiles at different sites of buccal and lingual enamel surfaces obtained by enamel biopsy of human maxillary first permanent molars in young adults. Hirose MN, et al. **Arch Oral Biol** 1996 Dec;41(12):1187–90

Chemical and X-ray analysis of fluoride, phosphorus, and calcium in human foetal blood and hard tissues. Montherrat-Carret L, et al. **Arch Oral Biol** 1996 Dec; 41(12):1169–78

Fluoride profiles in different sites of approximal surfaces of second primary molars after topical application of acidulated phosphate fluoride gel in vivo. Nishioka Y, et al. **Arch Oral Biol** 1995 Dec;40(12):1157–61

19F NMR spectroscopy of glass ceramics containing fluorapatites. Jana C, et al. **Biomaterials** 1996 Nov; 17(21):2065–9

Fluoride concentrations in ground waters of Visakhapatnam, India. Sarma DRR, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):241–7

Salivary and urinary fluoride levels after 1-month use of fluoride-releasing removable appliances. Alaçam A, et al. **Caries Res** 1996;30(3):200–3

Fluoride content in caffeinated, decaffeinated and herbal teas. Chan JT, et al. **Caries Res** 1996;30(1):88–92

Fluoride content of the enamel and dentine of human premolars prior to and following the introduction of fluoridation in New Zealand. Cutress TW, et al. **Caries Res** 1996;30(3):204–12

Rise and fall of caries prevalence in German towns with different F concentrations in drinking water. Künzel W, et al. **Caries Res** 1997;31(3):166–73

Enamel fluoride concentrations in unerupted third molars and the influence of fluoridated water on caries scores. Mestriner W Jr, et al. **Caries Res** 1996;30(1):83–7

Fluoride in the interdental area after two different post-brushing water rinsing procedures. Sjögren K, et al. **Caries Res** 1996;30(3):194–9

Fluoride concentrations and distribution in premolars of children from low and optimal fluoride areas. Takeuchi K, et al. **Caries Res** 1996;30(1):76–82

Fluoride and mutans streptococci levels in plaque on aged restorations of resin-modified glass ionomer cement, compomer and resin composite. van Dijken JW, et al. **Caries Res** 1997;31(5):379–83

Dental caries, fluoride levels and oral hygiene practices of school children in Matebeleland South, Zimbabwe. Sathananthan K, et al. **Community Dent Oral Epidemiol** 1996 Feb;24(1):21–4

P450-dependent and nonenzymatic human liver microsomal defluorination of fluoromethyl-2,2-difluoro-1-(trifluoromethyl)vinyl ether (compound A), a sevoflurane degradation product. Kharasch ED, et al. **Drug Metab Dispos** 1996 Jun; 24(6):649–54

Plaque fluoride and mutans streptococci in plaque and saliva before and after discontinuation of water fluoridation. Seppä L, et al. **Eur J Oral Sci** 1996 Aug;104(4 (Pt 1)):353–8

Enamel fluoride levels after orthodontic band cementation with glass ionomer cement. Akkaya S, et al. **Eur J Orthod** 1996 Feb;18(1):81–7

Analysis of fluoride ion concentrations and in vitro fluoride uptake from different commercial dentifrices. Itthagarun A, et al. **Int Dent J** 1996 Aug;46(4):357–61

Fluoride in drinking water and the bone mineral density of women in Taiwan. Lan CF, et al. **Int J Epidemiol** 1995 Dec;24(6):1182–7

Fluoride concentrations of infant foods. Heilman JR, et al. **J Am Dent Assoc** 1997 Jul;128(7):857–63

Aluminum ions in analysis of released fluoride from glass ionomers. Nakajima H, et al. **J Dent** 1997 Mar;25(2):137–44

Increased overnight fluoride concentrations in saliva, plaque, and plaque fluid after a novel two-solution rinse. Vogel GL, et al. **J Dent Res** 1997 Mar;76(3):761–7

Drinking water fluoride levels, dental fluorosis, and caries experience in Brazil. Cortes DF, et al. **J Public Health Dent** 1996 Summer;56(4):226–8

The association between developmental enamel defects and caries in populations with and without fluoride in their drinking water. Ellwood RP, et al. **J Public Health Dent** 1996 Spring;56(2):76–80

Fluoride in drinking water and human urine in northern and central Poland. Czarnowski W, et al. **Sci Total Environ** 1996 Nov 18;191(1–2):177–84

Radon, fluoride and 62 elements as determined by ICP-MS in 145 Norwegian hard rock groundwater samples. Reimann C, et al. **Sci Total Environ** 1996 Nov 29; 192(1):1–19

Natural fluoride and trace metal levels of ground and surface waters in the greater Accra region of Ghana. Botchway CA, et al. **West Afr J Med** 1996 Oct–Dec;15(4):204–9

Fluoride content of drinking-water and beverages in Jordan [letter] Hattab FN, et al. **World Health Forum** 1997; 18(1):69–70

[Determination of fluorides in urine, serum and bone samples using a special fluoride electrode] Irlweck K, et al. **Mikrochim Acta** 1977;(1–2 Pt 2):25–31 **(Ger)**

[Exposure of inhabitants of Poznan to fluorides. I. Fluorides in atmospheric air, tap water and selected additional fluids] Oporowska-Moszyk K, et al. **Rocz Panstw Zakl Hig** 1997; 48(1):47–52 (Eng. Abstr.) **(Pol)**

[Exposure of Poznan inhabitants to fluorides. II. Fluorides in urine and hair of school children] Oporowska-Moszyk K, et al. **Rocz Panstw Zakl Hig** 1997;48(1):53–8 (Eng. Abstr.) **(Pol)**

BLOOD

Intracranial pressure, middle cerebral artery flow velocity, and plasma inorganic fluoride concentrations in neurosurgical patients receiving sevoflurane or isoflurane. Artru AA, et al. **Anesth Analg** 1997 Sep;85(3):587–92

The relationship between cytochrome P4502E1 activity and plasma fluoride levels after sevoflurane anesthesia in humans. Wandel C, et al. **Anesth Analg** 1997 Oct; 85(4):924–30

Long-term follow up of ionic plasma fluoride level in patients receiving hemodialysis treatment. Nicolay A, et al. **Clin Chim Acta** 1997 Jul 4;263(1):97–104

Inorganic fluoride concentration after long-term sedation with isoflurane. Osborne MA, et al. **Intensive Care Med** 1996 Jul;22(7):677–82

Serum ionic fluoride levels in haemodialysis and continuous ambulatory peritoneal dialysis patients. al-Wakeel JS, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1420–4

The effect of hemodialysis upon serum levels of fluoride. Usuda K, et al. **Nephron** 1997;75(2):175–8

[Enzyme saturation of sevoflurane in piglets at clinically-used concentrations] Kadota Y, et al. **Masui** 1996 Feb; 45(2):167–72 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Fluoride release and uptake in vitro from a composite resin and two orthodontic adhesives. Young A, et al. **Acta Odontol Scand** 1996 Aug;54(4):223–8

Unacceptably high levels of fluoride in commercial preparations of silver fluoride. Gotjamanos T, et al. **Aust Dent J** 1997 Feb;42(1):52–3

Heterogeneous iron-containing fluoridated apatites. Okazaki M, et al. **Biomaterials** 1997 Jan;18(1):11–4

Method for enhancing the fluoride release of a glass-ionomer cement. Thevadass KP, et al. **Biomaterials** 1996 Feb; 17(4):425–9

Heterogeneous fluoridated hydroxyapatites partially substituted with fluoride ions. Okazaki M, et al. **Biomed Mater Eng** 1997;7(2):141–8

Fluoride analysis of apatite crystals with a central planar OCP inclusion: concerning the role of F- ions on apatite/OCP/apatite structure formation. Iijima M, et al. **Calcif Tissue Int** 1996 Nov;59(5):377–84

Fluoridation of hydroxyapatite powder by ammonium hexafluorosilicate. Murata H, et al. **Caries Res** 1996; 30(6):465–70

The effect of fluoro substituents on reactivity of 7-methylbenz[a]anthracene diol epoxides. Baer-Dubowska W, et al. **Chem Res Toxicol** 1996 Jun;9(4):722–8

The effect of fluoride on apatite structure and growth. Aoba T. **Crit Rev Oral Biol Med** 1997;8(2):136–53 (148 ref.)

Resin-modified glass ionomer cements: fluoride release and influence on Streptococcus mutans growth. Friedl KH, et al. **Eur J Oral Sci** 1997 Feb;105(1):81–5

Silver and fluoride ion release from metal-reinforced glass-ionomer filling materials. Williams JA, et al. **J Oral Rehabil** 1997 May;24(5):369–75

Structure of ADP x AlF4(-)-stabilized nitrogenase complex and its implications for signal transduction. Schindelin H, et al. **Nature** 1997 May 22;387(6631):370–6

Fluoridated and nonfluoridated unfilled sealants show similar shear strength. Marcushamer M, et al. **Pediatr Dent** 1997 May-Jun;19(4):289–90

In vitro comparative fluoride release, and weight and volume change in light-curing and self-curing glass ionomer materials. Wandera A, et al. **Pediatr Dent** 1996 May-Jun; 18(3):210–4

Photogeneration of fluoride by the fluoroquinolone antimicrobial agents lomefloxacin and fleroxacin. Martinez LJ, et al. **Photochem Photobiol** 1997 Mar;65(3):599–602

The effect of aromatic fluorine substitution on the nephrotoxicity and metabolism of N-(3,5-dichlorophenyl)succinimide in Fischer 344 rats. Kellner-Weibel GL, et al. **Toxicology** 1997 Feb 14; 117(1):73–83

[Evaluation of the long-term release of fluorides from type II glass ionomer cements with conventional setting reactions] De Moor R, et al. **Rev Belge Med Dent** 1996; 51(1):22–35 (Eng. Abstr.) **(Fre)**

[The formulation of glass ionomer cements and the amount of fluoride] De Moor R. **Rev Belge Med Dent** 1996; 51(1):9–21 (33 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSTIC USE

Optimization and deconvolution of lithium fluoride TLD-100 in diagnostic radiology. Burke K, et al. **Br J Radiol** 1997 Mar;70:261–71

ISOLATION & PURIFICATION

A simple method for defluoridation of drinking water at village level by adsorption on Ando soil in Kenya. Zevenbergen C, et al. **Sci Total Environ** 1996 Oct 11; 188(2-3):225-32

METABOLISM

Interindividual differences in degradation of sodium monofluorophosphate by saliva in relation to oral health status. Klimek J, et al. **Arch Oral Biol** 1997 Feb;42(2):181-4

The reaction of halides with cytochrome bo from Escherichia coli. Moody AJ, et al. **Biochem Soc Trans** 1997 Feb; 25(1):62S

Fluoride binding in hemoproteins: the importance of the distal cavity structure. Neri F, et al. **Biochemistry** 1997 Jul 22;36(29):8947-53

Adsorption/desorption of amine fluorides to hydroxyapatite. Sefton J, et al. **Biomaterials** 1996 Jan;17(1):37-46

Binding of monofluorophosphate to alpha2-macroglobulin and C3. Rigalli A, et al. **Calcif Tissue Int** 1997 Jan; 60(1):86-9

Aluminum fluoride associates with the small guanine nucleotide binding proteins. Ahmadian MR, et al. **FEBS Lett** 1997 May 26;408(3):315-8

Equilibrium and kinetic study of the conformational transition toward the active state of p21Ha-ras, induced by the binding of BeF3- to the GDP-bound state, in the absence of GTPase-activating proteins. Díaz JF, et al. **J Biol Chem** 1997 Sep 12;272(37):23138-43

Beryllium fluoride and phalloidin restore polymerizability of a mutant yeast actin (V266G,L267G) with severely decreased hydrophobicity in a subdomain 3/4 loop. Kuang B, et al. **J Biol Chem** 1997 Jan 10;272(2):1237-47

Differential scanning calorimetric study of the complexes of modified myosin subfragment 1 with ADP and vanadate or beryllium fluoride. Golitsina NL, et al. **J Muscle Res Cell Motil** 1996 Aug;17(4):475-85

The metabolism and toxicity of fluoride. Whitford GM. **Monogr Oral Sci** 1996;16 Rev 2:1-153 (389 ref.)

[The effect of low-dose prostaglandin E1 on serum and urinary fluoride concentrations in patients anesthetized with sevoflurane] Hayashida M, et al. **Masui** 1997 Jun; 46(6):736-42 (Eng. Abstr.) **(Jpn)**

[Some aspects of prenatal fluoride metabolism in human studies performed during the perinatal period] Chlubek D. **Ann Acad Med Stetin** 1996;Suppl 31:1-99 (126 ref.) (Eng. Abstr.) **(Pol)**

PHARMACOKINETICS

Influence of tooth surface conditions on enamel fluoride uptake after topical application of TiF4 in vitro. Gu Z, et al. **Acta Odontol Scand** 1996 Oct;54(5):279-81

Bioavailability of fluoride administered as sodium fluoride or sodium monofluorophosphate to human volunteers. Rigalli A, et al. **Arzneimittelforschung** 1996 May; 46(5):531-3

Fluoride uptake by proximal surfaces from professionally applied fluorides: an in vitro study. Kohli K, et al. **ASDC J Dent Child** 1997 Jan-Feb;64(1):28-31

An in vitro study of the distribution of silver and fluoride following application of 40 per cent silver fluoride solution to dentine. Afonso F, et al. **Aust Dent J** 1996 Dec; 41(6):388-92

Fluoride pharmacokinetics and changes in lumbar spine and hip bone mineral density. Patel S, et al. **Bone** 1996 Dec; 19(6):651-5

The cessation of fluoridated water administration and the fluoride distribution profiles in rat molar cementum. Ito T, et al. **Caries Res** 1997;31(5):390-6

The role of cation bridging in microbial fluoride binding. Rose RK, et al. **Caries Res** 1996;30(6):458-64

Clearance of fluoride by hemodialysis [letter] Usuda K, et al. **Clin Nephrol** 1996 May;45(5):363-4

Absolute bioavailability of fluoride from disodium monofluorophosphate and enteric-coated sodium fluoride tablets. van Asten P, et al. **Eur J Clin Pharmacol** 1996; 50(4):321-6

In vitro dentine fluoride uptake from three fluoride-containing composites and their acid resistance. Kawai K, et al. **J Dent** 1997 May-Jul;25(3-4):291-6

Release of cariostatic agents from a new buffering fluoride- and xylitol-containing lozenge to human whole saliva in vivo. Tenovuo J, et al. **J Oral Rehabil** 1997 May; 24(5):325-31

Serum fluoride and serum osteocalcin levels in response to a novel sustained-release monofluorophosphate preparation: comparison with plain monofluorophosphate. Battmann A, et al. **Osteoporos Int** 1997;7(1):48-51

PHARMACOLOGY

Dual role for AlF4(-)-sensitive G proteins in the function of T84 epithelial cells: transport and barrier effects. Ries J, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C794-803

Effects of copper, iron and fluoride co-crystallized with sugar on caries development and acid formation in deslivated rats. Rosalen PL, et al. **Arch Oral Biol** 1996 Nov; 41(11):1003-10

Morphometry and autoradiography of altered rat enamel protein processing due to chronic exposure to fluoride. Zhou R, et al. **Arch Oral Biol** 1996 Aug-Sep;41(8-9):739-47

Some effects of fluoride on the IgA protease of the oral bacterium Streptococcus sanguis. Duguid R, et al. **Biochem Soc Trans** 1996 May;24(2):312S

Inhibition of P-glycoprotein ATPase activity by beryllium fluoride. Sankaran B, et al. **Biochemistry** 1997 Jun 3; 36(22):6847-53

Relationship between specific binding of 125I-omega-conotoxin GVIA and GTP binding protein: effects of the GTP analogues, mastoparan and AlF4-. Ichida S, et al. **Biochim Biophys Acta** 1997 Apr 26; 1325(2):215-25

Characterisation of the role of calcium in AlF4-induced long-term potentiation in area CA1 of rat hippocampus. Breakwell NA, et al. **Biosci Rep** 1997 Apr;17(2):209-18

ADP indirectly supports activation of non-selective cation channels by AlF complex in guinea-pig chromaffin cells. Inoue M, et al. **Brain Res** 1996 Jan 29;707(2):298-302

Fluctuation analysis of nonselective cation currents induced by AlF complex in guinea-pig chromaffin cells. Inoue M, et al. **Brain Res** 1996 Nov 11;739(1-2):350-5

Fluoride treatment increased serum IGF-1, bone turnover, and bone mass, but not bone strength, in rabbits. Turner CH, et al. **Calcif Tissue Int** 1997 Jul;61(1):77-83

Effect of low levels of fluoride on proton excretion and intracellular pH in glycolysing streptococcal cells under strictly anaerobic conditions. Guha-Chowdhury N, et al. **Caries Res** 1997;31(5):373-8

pH-cycling of enamel and dentin lesions in the presence of low concentrations of fluoride. ten Cate JM, et al. **Eur J Oral Sci** 1995 Dec;103(6):362-7

Activation of G-proteins with AlF-4 induces LFA-1-mediated adhesion of T-cell hybridoma cells to ICAM-1 by signal pathways that differ from phorbol ester- and manganese-induced adhesion. Driessens MH, et al. **Exp Cell Res** 1997 Mar 15;231(2):242-50

Ethnic differences in the frequency distribution of serum cholinesterase activity. Hosseini J, et al. **Ir J Med Sci** 1997 Jan-Mar;166(1):10-2

Fluoride at mitogenic doses induces a sustained activation of p44mapk, but not p42mapk, in human TE85 osteosarcoma cells. Wu LW, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1126-35

Effects of hexafluorosilicate on the precipitate composition and dentine tubule occlusion by calcium phosphate. Kawasaki A, et al. **J Dent** 1996 Nov;24(6):429-34

The influence of trace elements on calcium phosphate formation by matrix vesicles. Sauer GR, et al. **J Inorg Biochem** 1997 Jan;65(1):57-65

The effects of fluorides and/or trace elements on the solubilities of enamel and cementum. Koray M, et al. **J Trace Elem Med Biol** 1996 Dec;10(4):255-9

Effect of cations on the tyrosine kinase activity of the insulin receptor: inhibition by fluoride is magnesium dependent. Viñals F, et al. **Mol Cell Biochem** 1997 Jun;171(1-2):69-73

Bidirectional regulation of neuronal potassium currents by the G-protein activator aluminum fluoride as a function of intracellular calcium concentration. Matzel LD, et al. **Neuroscience** 1996 Oct;74(4):1175-85

The effects of various fluoride concentrations on new bone formation in intramuscular implants of bone matrix in mice. Broulík PD. **Physiol Res** 1996;45(6):449-51

Enhancement of aluminum digestive absorption by fluoride in rats. Allain P, et al. **Res Commun Mol Pathol Pharmacol** 1996 Feb;91(2):225-31

POISONING see FLUORIDE POISONING

THERAPEUTIC USE

Retention of titanium tetrafluoride (TiF4), used as fissure sealant on human deciduous molars. Büyükyilmaz T, et al. **Acta Odontol Scand** 1997 Apr;55(2):73-8

Direct evidence concerning the 'major role' of fluoride dentifrices in the caries decline. A 6-year analytical cohort study. Haugejorden O, et al. **Acta Odontol Scand** 1997 Jun; 55(3):173-80

Pulp response in primary teeth with deep residual caries treated with silver fluoride and glass ionomer cement ('atraumatic' technique) [see comments] Gotjamanos T. **Aust Dent J** 1996 Oct;41(5):328-34. Comment in: Aust Dent J 1997 Feb;42(1):66-7.

Silver fluoride use [letter; comment] Gotjamanos T. **Aust Dent J** 1997 Apr;42(2):138. Comment on: Aust Dent J 1997 Feb;42(1):66-7.

The place of fluoride supplements in caries prevention today. Riordan PJ. **Aust Dent J** 1996 Oct;41(5):335-42 (78 ref.)

Prior fluoridation in childhood affects dental caries and tooth wear in a south east Queensland population. Teo C, et al. **Aust Dent J** 1997 Apr;42(2):92-102

In vitro measurement of enamel demineralization in the assessment of fluoride-leaching orthodontic bonding agents. Kindelan JD. **Br J Orthod** 1996 Nov;23(4):343-9

Prevention and management of osteoporosis: consensus statements from the Scientific Advisory Board of the Osteoporosis Society of Canada. 7. Fluoride therapy for osteoporosis. Murray TM, et al. **Can Med Assoc J** 1996 Oct 1;155(7):949-54 (52 ref.)

Randomized clinical trial of the effect of prenatal fluoride supplements in preventing dental caries. Leverett DH, et al. **Caries Res** 1997;31(3):174-9

Fluoride and pilocarpine reduce the risk of caries produced by chronic clomipramine treatment in rats. Martínez-Gomis J, et al. **Caries Res** 1997;31(2):155-60

Oral hygiene as a variable in dental caries experience in 14-year-olds exposed to fluoride. Mathiesen AT, et al. **Caries Res** 1996;30(1):29-33

Influence of iron alone or with fluoride on caries development in desalivated and intact rats. Miguel JC, et al. **Caries Res** 1997;31(3):244-8

Effect of a two-solution fluoride mouth rinse on deposition of loosely bound fluoride on sound root tissue and remineralization of root lesions in vitro. Takagi S, et al. **Caries Res** 1997;31(3):206-11

The effect of fluoridated milk on human dental enamel in an in vitro demineralization model. Tóth Z, et al. **Caries Res** 1997;31(3):212-5

A clinical trial of two fluoride dentifrices in an area of low caries prevalence. Glass RL, et al. **Community Dent Health** 1997 Jun;14(2):74-8

Using the DMF gender difference to assess the "major" role of fluoride toothpastes in the caries decline in industrialized countries: a meta-analysis [published erratum appears in Community Dent Oral Epidemiol 1997 Apr;25(2):192] Haugejorden O. **Community Dent Oral Epidemiol** 1996 Dec;24(6):369-75

Plaque surface area after rinsing with a low-level fluoride-containing Darjeeling tea. Attin T, et al. **Eur J Oral Sci** 1995 Dec;103(6):416-8

The caries decline: is the effect of fluoride toothpaste overrated? Krasse B. **Eur J Oral Sci** 1996 Aug;104(4 (Pt 2)):426-9

The start of caries decline and related fluoride use in Norway. von der Fehr FR, et al. **Eur J Oral Sci** 1997 Feb;105(1):21-6

Systemic fluorides apart from fluoride in water. Marthaler TM. **Fogorv Sz** 1997 Apr;90 Spec No:13-23

The effectiveness of an amine fluoride/stannous fluoride dentifrice on the gingival health of teenagers: results after six months. Sgan-Cohen HD, et al. **Int Dent J** 1996 Aug; 46(4):340-5

The effect of a fluoridated toothpaste on dentinal lesions in plaque-filled grooves: an intra-oral crossover study. Lagerweij MD, et al. **J Dent Res** 1996 Sep;75(9):1687-91

Comparison of 2 desensitizing dentifrices with a commercially available fluoride dentifrice in alleviating cervical dentine sensitivity. Gillam DG, et al. **J Periodontol** 1996 Aug;67(8):737-42

Clinical observations of noncoping overdenture abutments protected by tannin-fluoride preparation. Yamaga T, et al. **J Prosthet Dent** 1997 Sep;78(3):315-9

Effect of disodium monofluorophosphate, calcium and vitamin D supplementation on bone mineral density in patients chronically treated with glucocorticosteroids: a prospective, randomized, double-blind study. Lippuner K, et al. **Miner Electrolyte Metab** 1996;22(4):207-13

The increase in spinal bone density that occurs in response to fluoride therapy for osteoporosis is not maintained after the therapy is discontinued. Talbot JR, et al. **Osteoporos Int** 1996;6(6):442-7

Remineralization of caries-like lesions of enamel with acidulated calcifying fluids: a polarized light microscopic study. Flaitz CM, et al. **Pediatr Dent** 1996 May-Jun; 18(3):205-9

Patterns of fluoride dentifrice use among infants. Levy SM, et al. **Pediatr Dent** 1997 Jan-Feb;19(1):50-5

Fluoride and osteoporosis: an overview [editorial] Briançon D. **Rev Rhum Engl Ed** 1997 Feb;64(2):78-81 (32 ref.)

Are drugs helpful in adults with osteogenesis imperfecta? [editorial] Chevrel G, et al. **Rev Rhum Engl Ed** 1997 May; 64(5):283-6

Fluoride therapy for bone disease. Orcel P, et al. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):63S-69S (47 ref.)

Remineralization of natural carious lesions with a glass ionomer cement. Hatibovic-Kofman S, et al. **Swed Dent J** 1997;21(1-2):11-7

[Preventive effect of 10% (NH4)2MoO2F4 solution on artificial root-surface caries in vitro] Yang D, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Sep; 30(5):274-6, 319-20 (Eng. Abstr.) **(Chi)**

[Cavity preparation and caries prophylaxis by fluorides. The 10th annual meeting of the German Society for Restorative Dentistry (DGZ) of 10 to 11 May 1996 in Münster/G] Stassinakis A, et al. **Schweiz Monatsschr Zahnmed** 1996; 106(12):1145-6 **(Ger)**

[On the administration of fluor to infants (letter; comment)] González de Aledo A. **An Esp Pediatr** 1997 Mar;46(3):312 . Comment on: An Esp Pediatr 1996 Sep;45(3):236-41. **(Spa)**

TOXICITY

Marked hypocalcemia and ventricular fibrillation in two pediatric patients exposed to a fluoride-containing wheel cleaner. Klasaer AE, et al. **Ann Emerg Med** 1996 Dec; 28(6):713-8

Fatality due to acute fluoride poisoning following dermal contact with hydrofluoric acid in a palynology laboratory. Muriale L, et al. **Ann Occup Hyg** 1996 Dec;40(6):705-10

Reductions in bone strength after fluoride treatment are not reflected in tissue-level acoustic measurements. Turner CH, et al. **Bone** 1996 Dec;19(6):603-7

Fluoride-induced lesions in the teeth of the short-tailed field vole (Microtus agrestis): a description of the dental pathology. Boulton IC, et al. **J Morphol** 1997 May; 232(2):155-67

FLUORIDES

URINE

Fluoride in drinking water and human urine in northern and central Poland. Czarnowski W, et al. **Sci Total Environ** 1996 Nov 18;191(1–2):177–84

FLUORIDES, TOPICAL

ADMINISTRATION & DOSAGE

Fluoridated etching on orthodontic bonding. Meng CL, et al. **Am J Orthod Dentofacial Orthop** 1997 Sep;112(3):259–62

Fluoride profiles in different sites of approximal surfaces of second primary molars after topical application of acidulated phosphate fluoride gel in vivo. Nishioka Y, et al. **Arch Oral Biol** 1995 Dec;40(12):1157–61

Effects of compliance with fluoride gel application on caries and caries risk in patients after radiation therapy for head and neck cancer. Epstein JB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):268–75

ANALYSIS

Spectrophotometric determination of fluoride in dosage forms and dental preparations. Săndulescu R, et al. **J Pharm Biomed Anal** 1996 Jun;14(8–10):951–8

CHEMISTRY

Unacceptably high levels of fluoride in commercial preparations of silver fluoride. Gotjamanos T, et al. **Aust Dent J** 1997 Feb;42(1):52–3

Fluoridation of hydroxyapatite powder by ammonium hexafluorosilicate. Murata H, et al. **Caries Res** 1996; 30(6):465–70

Effect of topical fluoride agents on the morphologic characteristics and composition of resin composite restorative materials. Papagiannoulis L, et al. **J Prosthet Dent** 1997 Apr;77(4):405–13

PHARMACOKINETICS

Fluoride uptake by proximal surfaces from professionally applied fluorides: an in vitro study. Kohli K, et al. **ASDC J Dent Child** 1997 Jan–Feb;64(1):28–31

Penetration of varnishes into demineralized root dentine in vitro. Arends J, et al. **Caries Res** 1997;31(3):201–5

Absolute bioavailability of fluoride from disodium monofluorophosphate and enteric-coated sodium fluoride tablets. van Asten P, et al. **Eur J Clin Pharmacol** 1996; 50(4):321–6

PHARMACOLOGY

Efficacy of a chlorhexidine and a chlorhexidine-fluoride varnish mixture to decrease interdental levels of mutans streptococci. Twetman S, et al. **Caries Res** 1997;31(5):361–5

Effect of amine and stannous fluoride on human neutrophil functions in vitro. Shapira L, et al. **J Dent Res** 1997 Jul; 76(7):1381–6

The effect of topical fluoride agents on saliva secretion. Engel-Brill N, et al. **J Oral Rehabil** 1996 Jul;23(7):501–4

Changes of dentinal tubules following fluoride iontophoresis. Huang GF, et al. **Proc Natl Sci Counc Repub China B** 1995 Oct;19(4):246–52

THERAPEUTIC USE

Silver fluoride use [letter; comment] [see comments] Martin AP. **Aust Dent J** 1997 Feb;42(1):66–7. Comment on: Aust Dent J 1996 Oct;41(5):328–34. Comment in: Aust Dent J 1997 Apr;42(2):138.

Caries incidence in relation to salivary mutans streptococci and fluoride varnish applications in preschool children from low- and optimal-fluoride areas. Twetman S, et al. **Caries Res** 1996;30(5):347–53

Protection of bovine enamel and dentine by chlorhexidine and fluoride varnishes in a bacterial demineralization model. van Loveren C, et al. **Caries Res** 1996;30(1):45–51

Effectiveness of visible light fissure sealant (Delton) versus fluoride varnish (Duraphat): 24-month clinical trial. Bravo M, et al. **Community Dent Oral Epidemiol** 1996 Feb; 24(1):42–6

A 48-month survival analysis comparing sealant (Delton) with fluoride varnish (Duraphat) in 6- to 8-year-old children. Bravo M, et al. **Community Dent Oral Epidemiol** 1997 Jun;25(3):247–50

Microradiography and confocal laser scanning microscopy applied to enamel lesions formed in vivo with and without fluoride varnish treatment. Ogaard B, et al. **Eur J Oral Sci** 1996 Aug;104(4 (Pt 1)):378–83

Prediction of caries in pre-school children in relation to fluoride exposure. Twetman S, et al. **Eur J Oral Sci** 1996 Oct–Dec;104(5–6):523–8

Fluoride: the verdict is in, but the controversy lingers [editorial] Kleerekoper M. **J Bone Miner Res** 1996 May; 11(5):565–7

Slow-release sodium fluoride in osteoporosis. Pak CY, et al. **J Bone Miner Res** 1996 May;11(5):561–4 (16 ref.)

Effect of fluoride treatment on remineralization of bleached enamel. Attin T, et al. **J Oral Rehabil** 1997 Apr;24(4):282–6

In vitro evaluation of topical fluorides for overdenture abutments. Ettinger RL, et al. **J Prosthet Dent** 1997 Sep; 78(3):309–14

Dental sealants. Who needs them? Siegal MD, et al. **Public Health Rep** 1997 Mar–Apr;112(2):98–106; discussion 107

[Plaque and gingivitis reduction by an amine fluoride/stannous fluoride combination] Schulz E, et al. **Dtsch Zahn Mund Kieferheilkd Zentralbl** 1991;79(1):9–13 (Eng. Abstr.) **(Ger)**

FLUORIMETRY see **FLUOROMETRY**

FLUORINATED HYDROCARBONS see **HYDROCARBONS, FLUORINATED**

FLUORINATED POLYMERS see **FLUOROCARBON POLYMERS**

FLUORINE

6-Fluoropyridoxal polymer conjugates: novel 19F pH indicators for magnetic resonance spectroscopy. Mehta VD, et al. **Bioconjug Chem** 1996 Sep–Oct;7(5):536–40

Effects of fluorine substitution on the structure and dynamics of complexes of dihydrofolate reductase (Escherichia coli). Lau EY, et al. **Biophys J** 1997 Sep;73(3):1579–92

Comparison of fluorine-surface-modified and unmodified lenses for implantation in pediatric aphakia. Thouvenin D, et al. **J Cataract Refract Surg** 1996 Nov;22(9):1226–31

Synthesis of nonhydrolyzable analogues of thiazole-4-carboxamide and benzamide adenine dinucleotide containing fluorine atom at the C2' of adenine nucleoside: induction of K562 differentiation and inosine monophosphate dehydrogenase inhibitory activity. Lesiak K, et al. **J Med Chem** 1997 Aug 1;40(16):2533–8

ADMINISTRATION & DOSAGE

Fluorine intake of a Tibetan population. Cao J, et al. **Food Chem Toxicol** 1996 Aug;34(8):755–7

ADVERSE EFFECTS

Pustular contact dermatitis from fluorine in an antirust solution. Stéciuk A, et al. **Contact Dermatitis** 1997 May; 36(5):276–7

The relationship of fluorosis and brick tea drinking in Chinese Tibetans. Cao J, et al. **Environ Health Perspect** 1996 Dec; 104(12):1340–3

[Fluorine and sciences] Waldbott GL. **Aliment Vie** 1969; 57(7–9):207–16 (36 ref.) **(Fre)**

ANALYSIS

Fluoride exposure and selected characteristics of eggs and bones of the herring gull (Larus argentatus) and the common gull (Larus canus). Vikøren T, et al. **J Wildl Dis** 1996 Apr;32(2):190–8

Simultaneous 3D NMR spectroscopy of proton-decoupled fluorine and phosphorus in human liver during 5-fluorouracil chemotherapy. Gonen O, et al. **Magn Reson Med** 1997 Feb;37(2):164–9

[Concentration and distribution of fluorine in hen's eggs as an aspect of selected biological parameters] Machaliński B. **Ann Acad Med Stetin** 1996;42:25–38 (Eng. Abstr.) **(Pol)**

CHEMISTRY

Use of fluorine-containing stationary phases for the separation of an alkyl bromide from its hydrocarbon analog by high-performance liquid chromatography. Hendershot S, et al. **J Chromatogr A** 1997 Feb 21;762(1–2):159–65

Molecular dynamics simulations of silicon–fluorine etching. Darcy A, et al. **J Mol Graph** 1996 Oct;14(5):260–71, 278

Proton irradiation of [18O]O2: production of [18F]F2 and [18F]F2 + [18F] OF2. Bishop A, et al. **Nucl Med Biol** 1996 Apr;23(3):189–99

Steroidal allylic fluorination using diethylaminosulfur trifluoride: a convenient method for the synthesis of 3 beta-acetoxy-7 alpha- and 7 beta-fluoroandrost-5-en-17-one. Marwah P, et al. **Steroids** 1996 Aug;61(8):453–60

DIAGNOSTIC USE

1H and 19F magnetic resonance imaging of solid paramagnetic compounds using large magnetic field gradients and Hahn echoes. Randall EW. **Solid State Nucl Magn Reson** 1997 May;8(3):173–8

METABOLISM

ADP-fluoroaluminate complexes are formed cooperatively at two catalytic sites of wild-type and mutant alpha3beta3gamma subcomplexes of the F1-ATPase from the thermophilic Bacillus PS3. Dou C, et al. **Biochemistry** 1997 Mar 25;36(12):3719–27

Enantioselective fluorination of organic molecules. I. Synthetic studies of the agents for electrophilic, enantioselective fluorination of carbanions. Takeuchi Y, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):1085–8

PHARMACOLOGY

Fluoroaluminate induces pertussis toxin-sensitive protein phosphorylation: differences in MC3T3-E1 osteoblastic and NIH3T3 fibroblastic cells. Susa M, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):680–4

Fluoroaluminate induces rapid release of endothelin-1 in the isolated perfused arterial and venous vessels of the rat mesentery. Cirino G, et al. **Gen Pharmacol** 1997 Mar; 28(3):459–62

POISONING

[Toxic effects of fluorine compounds on the the fetus and their effect on the course of pregnancy] Chlubek D, et al. **Ginekol Pol** 1996 Aug;67(8):414–8 (21 ref.) (Eng. Abstr.) **(Pol)**

TOXICITY

Effect of different fluorine doses on the supraoptic nucleus of the rat. Dąbrowska E. **Folia Histochem Cytobiol** 1997; 35(2):115–6

FLUORINE COMPOUNDS

Preparation and use of ion-exchange chromatographic supports based on perfluoropolymers. McCreath GE, et al. **J Chromatogr A** 1997 Jun 27;773(1–2):73–83

ANALYSIS

Identification and quantitation of gaseous compounds of fluorine generated in [18F]F2 target systems. Bishop A, et al. **Nucl Med Biol** 1996 May;23(4):391–405

CHEMISTRY

Molecular packing of highly fluorinated phosphatidylcholines in monolayers. Rolland JP, et al. **Chem Phys Lipids** 1996 Jan 25;79(1):71–7

FLUORINE RADIOISOTOPES

Use of 19F NMR to probe protein structure and conformational changes. Danielson MA, et al. **Annu Rev Biophys Biomol Struct** 1996;25:163–95 (98 ref.)

20-[18F]fluoroarachidonic acid: tissue biodistribution and incorporation into phospholipids. Nagatsugi F, et al. **Biol Pharm Bull** 1996 Oct;19(10):1316–21

Characterization of pulmonary and myocardial beta-adrenoceptors with S-1'-[fluorine-18]fluorocarazolol. Visser TI, et al. **J Nucl Med** 1997 Feb;38(2):169–74

Chemical reactivity of the 18F electrophilic reagents from the 18O(p,n) 18F gas target systems. Bishop A, et al. **Nucl Med Biol** 1996 Jul;23(5):559–65

Proton irradiation of [18O]O2: production of [18F]F2 and [18F]F2 + [18F] OF2. Bishop A, et al. **Nucl Med Biol** 1996 Apr;23(3):189–99

Metals suitable for fluorine gas target bodies: first use of aluminum for the production of [18F]F2. Bishop A, et al. **Nucl Med Biol** 1996 Apr;23(3):181–8

The use of 3-methoxymethyl-16 beta, 17 beta-epiestriol-O-cyclic sulfone as the precursor in the synthesis of F-18 16 alpha-fluoroestradiol. Lim JL, et al. **Nucl Med Biol** 1996 Oct;23(7):911–5

A color spot test for the detection of Kryptofix 2.2.2 in [18F]FDG preparations. Mock BH, et al. **Nucl Med Biol** 1997 Feb;24(2):193–5

Synthesis, radiosynthesis, and biological evaluation of fluorinated thienylcyclohexyl piperidine derivatives as potential radiotracers for the NMDA receptor-linked calcium ionophore. Ouyang X, et al. **Nucl Med Biol** 1996 Apr;23(3):315–24

Biological evaluation of 5-methyl-branched-chain omega-[18F]fluorofatty acid: a potential myocardial imaging tracer for positron emission tomography. Takahashi T, et al. **Nucl Med Biol** 1996 Apr;23(3):303–8

Improving the yield of 2-[18F]fluoro-2-deoxyglucose using a microwave cavity. Taylor MD, et al. **Nucl Med Biol** 1996 Jul;23(5):605–9

A comparative study of N.C.A. fluorine-18 labeling of proteins via acylation and photochemical conjugation. Wester HJ, et al. **Nucl Med Biol** 1996 Apr;23(3):365–72

Synthesis of isomers of 18F-labelled amino acid radiopharmaceutical: position 2- and 3-L-18F-alpha-methyltyrosine using a separation and purification system. Tomiyoshi K, et al. **Nucl Med Commun** 1997 Feb;18(2):169–75

ADMINISTRATION & DOSAGE

An automated radiopharmaceutical dispenser. Plascjak PS, et al. **Appl Radiat Isot** 1997 Mar;48(3):345–8

CHEMISTRY

9-[(3-[18F]-fluoro-1-hydroxy-2-propoxy)methyl]guanine ([18F]-FHPG): a potential imaging agent of viral infection and gene therapy using PET. Alauddin MM, et al. **Nucl Med Biol** 1996 Aug;23(6):787–92

18F-labeling and biodistribution of the novel fluoro-quinolone antimicrobial agent, trovafloxacin (CP 99,219). Babich JW, et al. **Nucl Med Biol** 1996 Nov; 23(8):995–8

Oxohexestrol derivatives labeled with fluorine-18. Synthesis, receptor binding and in vivo distribution of two non-steroidal estrogens as potential breast tumor imaging agents. Bergmann KE, et al. **Nucl Med Biol** 1994 Jan; 21(1):25–39

Production of [18F]F2 using the 16O(3He,p)18F reaction. Bishop A, et al. **Nucl Med Biol** 1996 May;23(4):385–9

Identification and quantitation of gaseous compounds of fluorine generated in [18F]F2 target systems. Bishop A, et al. **Nucl Med Biol** 1996 May;23(4):391–405

Synthesis of carbon–11– and fluorine–18–labeled 1–methyl–4–piperidyl–4'–fluorobenzoate and their biodistribution in mice. Bormans G, et al. **Nucl Med Biol** 1996 May;23(4):513–7

Radiosynthesis of [18F] N–3–fluoropropyl–2–beta–carbomethoxy–3–beta–(4–iodophenyl) nortropane and the first human study with positron emission tomography. Chaly T, et al. **Nucl Med Biol** 1996 Nov;23(8):999–1004

Synthesis and preliminary evaluation of para– and meta–[18F]fluorobenzylguanidine. Garg PK, et al. **Nucl Med Biol** 1994 Jan;21(1):97–103

The use of pentafluorophenyl derivatives for the 18F labelling of proteins. Herman LW, et al. **Nucl Med Biol** 1994 Oct;21(7):1005–10

Synthesis of 2–[18F]fluoro–2–deoxy–L–glucose and positron emission tomography studies in monkeys. Meng J, et al. **Nucl Med Biol** 1994 May;21(4):633–40

Back–to–back "one–pot" [18F]FDG syntheses in a single Siemens–CTI chemistry process control unit. Mock BH, et al. **Nucl Med Biol** 1996 May;23(4):497–501

Radiosynthesis and biodistribution of the S–[18F]fluoroethyl analog of McN5652. Suehiro M, et al. **Nucl Med Biol** 1996 May;23(4):407–12

The synthesis of fluorine–18 lomefloxacin and its preliminary use in human studies. Tewson TJ, et al. **Nucl Med Biol** 1996 Aug;23(6):767–72

DIAGNOSTIC USE

Local recurrence of rectal cancer: evaluation with F–18 fluorodeoxyglucose PET imaging. Keogan MT, et al. **Abdom Imaging** 1997 May–Jun;22(3):332–7

Clinical positron emission tomography for brain tumors: comparison of fludeoxyglucose F 18 and L–methyl–11C–methionine. Ogawa T, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):345–53

Evaluation of adrenal masses in patients with bronchogenic carcinoma using 18F–fluorodeoxyglucose positron emission tomography [see comments] Erasmus JJ, et al. **AJR Am J Roentgenol** 1997 May;168(5):1357–60. Comment in: AJR Am J Roentgenol 1997 May;168(5):1361–2.

Staging of esophageal cancer with 18F–fluorodeoxyglucose positron emission tomography. Flanagan FL, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):417–24

Positron emission tomography, bronchogenic carcinoma, and the adrenals [comment] Lamki LM. **AJR Am J Roentgenol** 1997 May;168(5):1361–2. Comment on: AJR Am J Roentgenol 1997 May;168(5):1357–60.

Talc pleurodesis simulating pleural metastases on 18F–fluorodeoxyglucose positron emission tomography [see comments] Murray JG, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):359–60. Comment in: AJR Am J Roentgenol 1997 Sep;169(3):911.

Pulmonary nodules: differential diagnosis using 18F–fluorodeoxyglucose single–photon emission computed tomography. Worsley DF, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):771–4

F–18–fluorodeoxyglucose PET imaging alters clinical decision making in patients with impaired ventricular function. Beanlands RS, et al. **Am J Cardiol** 1997 Apr 15; 79(8):1092–5

Oral 18F–fluoro–2–deoxyglucose for primate PET studies without behavioral restraint: demonstration of principle. Martinez ZA, et al. **Am J Primatol** 1997;42(3):215–24

Validation and clinical application of computer–combined computed tomography and positron emission tomography with 2–[18F]fluoro–2–deoxy–D–glucose head and neck images. Wong WL, et al. **Am J Surg** 1996 Dec; 172(6):628–32

FDG–PET in infectious lesions: The detection and assessment of lesion activity. Ichiya Y, et al. **Ann Nucl Med** 1996 May;10(2):185–91

A clinical evaluation of FDG–PET to assess the response in radiation therapy for bronchogenic carcinoma. Ichiya Y, et al. **Ann Nucl Med** 1996 May;10(2):193–200

Simple method to quantify myocardial glucose metabolism from MB ratio in myocardial FDG PET. Nishikawa J, et al. **Ann Nucl Med** 1996 Aug;10(3):323–8

Whole–body positron emission tomography (PET) for diagnosis of residual mass in patients with lymphoma. de Wit M, et al. **Ann Oncol** 1997;8 Suppl 1:57–60

Detection of local recurrence of soft–tissue sarcoma with positron emission tomography using [18F]fluorodeoxyglucose. Kole AC, et al. **Ann Surg Oncol** 1997 Jan;4(1):57–63

The development of estrogen and progestin radiopharmaceuticals for imaging breast cancer. Katzenellenbogen JA, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1573–6

Focal abnormalities detected by 18FDG PET in epileptic encephalopathies [see comments] Ferrie CD, et al. **Arch Dis Child** 1996 Aug;75(2):102–7. Comment in: Arch Dis Child 1997 May;76(5):477–8.

18–Fluorodeoxyglucose uptake and survival of patients with suspected recurrent malignant glioma. Barker FG 2nd, et al. **Cancer** 1997 Jan 1;79(1):115–26

18F–fluorodeoxyglucose positron emission tomography and the prognosis of patients with pancreatic adenocarcinoma. Nakata B, et al. **Cancer** 1997 Feb 15;79(4):695–9

Positron emission tomography with F–18–fluorodeoxyglucose to evaluate the results of hepatic chemoembolization [see comments] Vitola JV, et al. **Cancer** 1996 Nov 15;78(10):2216–22. Comment in: Cancer 1996 Nov 15;78(10):2039–42.

Likelihood of malignancy in a solitary pulmonary nodule: comparison of Bayesian analysis and results of FDG–PET scan. Dewan NA, et al. **Chest** 1997 Aug;112(2):416–22

FDG uptake in gestational sac. Alibazoglu H, et al. **Clin Nucl Med** 1997 Aug;22(8):557

Comparison of F–18 FDG to I–123 and I–131 scans in thyroid carcinoma. Bakheet SM, et al. **Clin Nucl Med** 1997 Jun;22(6):438–9

F–18 FDG uptake by recurrent Hürthle cell carcinoma of the thyroid using high–energy planar scintigraphy. Blount CL, et al. **Clin Nucl Med** 1996 Nov;21(11):831–3

Impact of fluorodeoxyglucose positron emission tomography on the clinical management of patients with glioma. Deshmukh A, et al. **Clin Nucl Med** 1996 Sep;21(9):720–5

Differentiating benign from malignant lung lesions using "quantitative" parameters of FDG PET images. Hübner KF, et al. **Clin Nucl Med** 1996 Dec;21(12):941–9

Melorheostosis bone scintigraphy and F–18 fluorodeoxyglucose positron emission tomography. Kloos RT, et al. **Clin Nucl Med** 1996 Oct;21(10):805–6

Normal thymic uptake of FDG on PET imaging. Patel PM, et al. **Clin Nucl Med** 1996 Oct;21(10):772–5

'False–positive' uptake of FDG in a hepatic adenoma. Patel PM, et al. **Clin Nucl Med** 1997 Jul;22(7):490–1

Tc–99m MIBI scintigraphy in patients with lung cancer. Comparison with CT and fluorine–18 FDG PET imaging. Wang H, et al. **Clin Nucl Med** 1997 Apr;22(4):243–9

High fluorine–18 labeled deoxyglucose uptake in sarcoidosis. Yasuda S, et al. **Clin Nucl Med** 1996 Dec;21(12):983–4

F–18 FDG accumulation in inflamed joints. Yasuda S, et al. **Clin Nucl Med** 1996 Sep;21(9):740

Diffuse F–18 FDG uptake in chronic thyroiditis. Yasuda S, et al. **Clin Nucl Med** 1997 May;22(5):341

A prospective study of PET–FDG imaging for the assessment of head and neck squamous cell carcinoma. Wong WL, et al. **Clin Otolaryngol** 1997 Jun;22(3):209–14

Evidence for dissociation of insulin stimulation of blood flow and glucose uptake in human skeletal muscle: studies using [15O]H2O, [18F]fluoro–2–deoxy–D–glucose, and positron emission tomography. Raitakari M, et al. **Diabetes** 1996 Nov;45(11):1471–7

Optimal metabolic conditions during fluorine–18 fluorodeoxyglucose imaging; a comparative study using different protocols. Bax JJ, et al. **Eur J Nucl Med** 1997 Jan;24(1):35–41

Comparison of three different methods for radiolabelling human activated T lymphocytes. Botti C, et al. **Eur J Nucl Med** 1997 May;24(5):497–504

Does fluorine–18 fluorodeoxyglucose metabolic imaging of tumours benefit oncology? [see comments] Brock CS, et al. **Eur J Nucl Med** 1997 Jun;24(6):691–705 (136 ref.). Comment in: Eur J Nucl Med 1997 Jun;24(6):587–9.

Staging of non–small–cell lung cancer by whole–body fluorine–18 deoxyglucose positron emission tomography. Bury T, et al. **Eur J Nucl Med** 1996 Feb;23(2):204–6

Evaluation of two population–based input functions for quantitative neurological FDG PET studies. Eberl S, et al. **Eur J Nucl Med** 1997 Mar;24(3):299–304

Rapid rise in FDG uptake in an irradiated human tumour xenograft. Furuta M, et al. **Eur J Nucl Med** 1997 Apr; 24(4):435–8

Fluorine–18 fluoro–2–deoxyglucose positron emission tomography in recurrent rectal cancer: relation to tumour size and cellularity. Ito K, et al. **Eur J Nucl Med** 1996 Oct;23(10):1372–7

Preliminary assessment of fluorine–18 fluorodeoxyglucose positron emission tomography in patients with bladder cancer. Kosuda S, et al. **Eur J Nucl Med** 1997 Jun; 24(6):615–20

Detection of anaerobic odontogenic infections by fluorine–18 fluoromisonidazole. Liu RS, et al. **Eur J Nucl Med** 1996 Oct;23(10):1384–7

Double–blind stereo–EEG and FDG PET study in severe partial epilepsies: are the electric and metabolic findings related? Lucignani G, et al. **Eur J Nucl Med** 1996 Nov; 23(11):1498–507

Brain glucose utilization in systemic lupus erythematosus with neuropsychiatric symptoms: a controlled positron emission tomography study. Otte A, et al. **Eur J Nucl Med** 1997 Jul;24(7):787–91

Is there a future for PET in oncology? [editorial; comment] Price P. **Eur J Nucl Med** 1997 Jun;24(6):587–9. Comment on: Eur J Nucl Med 1997 Jun;24(6):691–705.

Oncological applications of positron emission tomography with fluorine–18 fluorodeoxyglucose. Rigo P, et al. **Eur J Nucl Med** 1996 Dec;23(12):1641–74 (374 ref.)

Qualitative [18F]FDG positron emission tomography in primary breast cancer: clinical relevance and practicability. Scheidhauer K, et al. **Eur J Nucl Med** 1996 Jun; 23(6):618–23

Fluorine–18 deoxyglucose and false–positive results: a major problem in the diagnostics of oncological patients. Strauss LG. **Eur J Nucl Med** 1996 Oct;23(10):1409–15 (22 ref.)

Prospective evaluation of fluorine–18 fluorodeoxyclucose positron emission tomography in breast cancer for staging of the axilla related to surgery and immunocytochemistry. Utech CI, et al. **Eur J Nucl Med** 1996 Dec;23(12):1588–93

Metabolic myocardial viability assessment with iodine 123–16–iodo–3–methylhexadecanoic acid in recent myocardial infarction: comparison with thallium–201 and fluorine–18 fluorodeoxyglucose. Vanzetto G, et al. **Eur J Nucl Med** 1997 Feb;24(2):170–8

Non–invasive grading of primary brain tumours: results of a comparative study between SPET with 123I–alpha–methyl tyrosine and PET with 18F–deoxyglucose. Woesler B, et al. **Eur J Nucl Med** 1997 Apr;24(4):428–34

Evaluation of the limits of visual detection of image misregistration in a brain fluorine–18 fluorodeoxyglucose PET–MRI study. Wong JCH, et al. **Eur J Nucl Med** 1997 Jun;24(6):642–50

Fluorine–18 fluoromisonidazole tumour to muscle retention ratio for the detection of hypoxia in nasopharyngeal carcinoma. Yeh SH, et al. **Eur J Nucl Med** 1996 Oct; 23(10):1378–83

Fluorine–18 fluorodeoxyglucose positron emission tomography in the differential diagnosis of pancreatic carcinoma: a report of 106 cases. Zimny M, et al. **Eur J Nucl Med** 1997 Jun;24(6):678–82

Longitudinal behavioral and 6–[18F]fluoro–L–DOPA–PET assessment in MPTP–hemiparkinsonian monkeys. Melega WP, et al. **Exp Neurol** 1996 Oct;141(2):318–29

Metabolic imaging using F18–fluorodeoxyglucose to assess myocardial viability. Bax JJ, et al. **Int J Card Imaging** 1997 Apr;13(2):145–55; discussion 157–60 (87 ref.)

Course of impaired left ventricular function after acute myocardial infarction predicted with planar thallium–201 chloride and F18–fluorodeoxyglucose imaging. Huitink JM, et al. **Int J Cardiol** 1996 Dec 13;57(3):271–81

Quantifying regional hypoxia in human tumors with positron emission tomography of [18F]fluoromisonidazole: a pretherapy study of 37 patients. Rasey JS, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):417–28

Interpretation variability of 18FDG–positron emission tomography studies in dementia. Hoffman JM, et al. **Invest Radiol** 1996 Jun;31(6):316–22

Prediction of improvement of contractile function in patients with ischemic ventricular dysfunction after revascularization by fluorine–18 fluorodeoxyglucose single–photon emission computed tomography. Bax JJ, et al. **J Am Coll Cardiol** 1997 Aug;30(2):377–83

Enhanced myocardial 18F–2–fluoro–2–deoxyglucose uptake after orthotopic heart transplantation assessed by positron emission tomography. Rechavia E, et al. **J Am Coll Cardiol** 1997 Aug;30(2):533–8

Determination of unchanged [18F]dopamine in human and non–human primate plasma during positron emission tomography studies: a new solid–phase extraction method comparable to radio–thin–layer chromatography analysis. Wang RF, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):265–70

Alignment of volume MR images and high resolution [18F]fluorodeoxyglucose PET images for the evaluation of patients with brain tumors. Nelson SJ, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):183–91

Regional body FDG–PET in postoperative recurrent hyperparathyroidism. Neumann DR, et al. **J Comput Assist Tomogr** 1997 Jan–Feb;21(1):25–8

PET for diagnosis of malignant lymphoma of the scalp: comparison of [11C]methyl–L–methionine and [18F]fluoro–2–deoxyglucose. Tsuyuguchi N, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):590–3 (16 ref.)

In vivo diagnosis of human malignant melanoma with positron emission tomography using specific melanoma–seeking 18F–DOPA analogue. Mishima Y, et al. **J Neurooncol** 1997 May;33(1–2):163–9

Effects of m–chlorophenylpiperazine on regional brain glucose utilization: a positron emission tomographic comparison of alcoholic and control subjects. Hommer D, et al. **J Neurosci** 1997 Apr 15;17(8):2796–806

F18–fluorodeoxyglucose single–photon emission computed tomography predicts functional outcome of dyssynergic myocardium after surgical revascularization. Bax JJ, et al. **J Nucl Cardiol** 1997 Jul–Aug;4(4):302–8

Glucose uptake and lumped constant variability in normal human hearts determined with [18F]fluorodeoxyglucose. Bøtker HE, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):125–32

The incidence of scintigraphically viable and nonviable tissue by rubidium–82 and fluorine–18–fluorodeoxyglucose positron emission tomographic imaging in patients with prior infarction and left ventricular dysfunction. Go RT, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):96–104

Fluorine 18–labeled fluorodeoxyglucose myocardial single–photon emission computed tomography: an alternative for determining myocardial viability. Sandler MP, et al. **J Nucl Cardiol** 1996 Jul–Aug;3(4):342–9 (48 ref.)

Breast imaging with fluorine–18–FDG PET: quantitative image analysis. Avril N, et al. **J Nucl Med** 1997 Aug; 38(8):1186–91

Skeletal muscle uptake of fluorine–18–FDG: effect of oral diazepam. Barrington SF, et al. **J Nucl Med** 1996 Jul; 37(7):1127–9

Comparison of myocardial uptake of fluorine–18–fluorodeoxyglucose imaged with PET and SPECT in dyssynergic myocardium. Bax JJ, et al. **J Nucl Med** 1996 Oct;37(10):1631–6

Myocardial viability studies using fluorine–18–FDG SPECT: a comparison with fluorine–18–FDG PET. Chen EQ, et

al. **J Nucl Med** 1997 Apr;38(4):582–6
Fluorine–18–FDG PET in Paget's disease of bone. Cook GJ, et al. **J Nucl Med** 1997 Sep;38(9):1495–7
Fasting improves discrimination of grade 1 and atypical or malignant meningioma in FDG–PET. Cremerius U, et al. **J Nucl Med** 1997 Jan;38(1):26–30
Controversies arising from recent FDOPA articles [letter; comment] [see comments] Cumming P, et al. **J Nucl Med** 1997 Aug;38(8):1267–71. Comment on: J Nucl Med 1996 Feb;37(2):209–16. Comment on: J Nucl Med 1996 Feb;37(2):216–22. Comment on: J Nucl Med 1996 Mar;37(3):432–7. Comment in: J Nucl Med 1997 Aug;38(8):1267–71.
Evaluation of fluorinated m–tyrosine analogs as PET imaging agents of dopamine nerve terminals: comparison with 6–fluoroDOPA. DeJesus OT, et al. **J Nucl Med** 1997 Apr; 38(4):630–6
Staging recurrent metastatic colorectal carcinoma with PET. Delbeke D, et al. **J Nucl Med** 1997 Aug;38(8):1196–201
Bladder wall radiation dose in humans from fluorine–18–FDOPA. Dhawan V, et al. **J Nucl Med** 1996 Nov;37(11):1850–2
Whole–body PET: physiological and artifactual fluorodeoxyglucose accumulations. Engel H, et al. **J Nucl Med** 1996 Mar;37(3):441–6
FDG hypermetabolism associated with inflammatory necrotic changes following radiation of meningioma. Fischman AJ, et al. **J Nucl Med** 1997 Jul;38(7):1027–9
Regional methionine and glucose uptake in high–grade gliomas: a comparative study on PET–guided stereotactic biopsy. Goldman S, et al. **J Nucl Med** 1997 Sep; 38(9):1459–62
PET 2–fluoro–2–deoxyglucose uptake in rat prostate adenocarcinoma during chemotherapy with gemcitabine. Haberkorn U, et al. **J Nucl Med** 1997 Aug;38(8):1215–21
Abnormal colonic accumulation of fluorine–18–FDG in pseudomembranous colitis. Hannah A, et al. **J Nucl Med** 1996 Oct;37(10):1683–5
Early changes in fluorine–18–FDG uptake during radiotherapy. Hautzel H, et al. **J Nucl Med** 1997 Sep; 38(9):1384–6
Improvement of fluorine–18 planar images using low–pass filtering [letter] Hawkins WG. **J Nucl Med** 1997 Mar; 38(3):500
F–Dopa as an amino acid tracer to detect brain tumors. Heiss WD, et al. **J Nucl Med** 1996 Jul;37(7):1180–2
Expression of glucose transporters in human pancreatic tumors compared with increased FDG accumulation in PET study. Higashi T, et al. **J Nucl Med** 1997 Sep; 38(9):1337–44
Whole–body FDG–PET imaging for staging of Hodgkin's disease and lymphoma. Hoh CK, et al. **J Nucl Med** 1997 Mar;38(3):343–8
Fluorine–18–FPH for PET imaging of nicotinic acetylcholine receptors. Horti A, et al. **J Nucl Med** 1997 Aug; 38(8):1260–5
Physiologic modeling of PET data: quantitative conflict and challenge [editorial; comment] Ichise M, et al. **J Nucl Med** 1997 Aug;38(8):1266–7. Comment on: J Nucl Med 1997 Aug;38(8):1267–71. Comment on: J Nucl Med 1997 Aug;38(8):1271–2.
False–negative fluorine–18–FDG PET in metastatic carcinoid. Jadvar H, et al. **J Nucl Med** 1997 Sep; 38(9):1382–3
Standardized uptake value and quantification of metabolism for breast cancer imaging with FDG and L–[1–11C]tyrosine PET. Kole AC, et al. **J Nucl Med** 1997 May;38(5):692–6
Speech–related visualization of laryngeal muscles with fluorine–18–FDG. Kostakoglu L, et al. **J Nucl Med** 1996 Nov;37(11):1771–3
Re–evaluation of myocardial FDG uptake in hyperglycemia. Kubota K, et al. **J Nucl Med** 1996 Oct;37(10):1713–7
Comparative PET imaging of experimental tumors with bromine–76–labeled antibodies, fluorine–18–fluorodeoxyglucose and carbon–11–methionine. Lövqvist A, et al. **J Nucl Med** 1997 Jul;38(7):1029–35
FDG–PET appearance of pelvic Castleman's disease. Murphy SP, et al. **J Nucl Med** 1997 Aug;38(8):1211–2
Comparison of FDG–PET and sestamibi–SPECT in primary hyperparathyroidism. Neumann DR, et al. **J Nucl Med** 1996 Nov;37(11):1809–15
Recurrent postoperative parathyroid carcinoma: FDG–PET and sestamibi–SPECT findings. Neumann DR, et al. **J Nucl Med** 1996 Dec;37(12):2000–1
Independent thallium–201 accumulation and fluorine–18–fluorodeoxyglucose metabolism in glioma. Oriuchi N, et al. **J Nucl Med** 1996 Mar;37(3):457–62
Simplified calculation of MRglc using PET [letter] Phillips RL, et al. **J Nucl Med** 1997 Aug;38(8):1334
Determination of regional rate constants from dynamic FDG–PET studies in Parkinson's disease. Piert M, et al. **J Nucl Med** 1996 Jul;37(7):1115–22
Noise reduction in PET attenuation correction by maximum likelihood histogram sharpening of attenuation images. Price JC, et al. **J Nucl Med** 1996 May;37(5):786–94
FDG–PET evaluation of retroperitoneal metastases of testicular cancer before and after chemotherapy. Reinhardt MJ, et al. **J Nucl Med** 1997 Jan;38(1):99–101
Overexpression of glucose transporter 1 and increased FDG uptake in pancreatic carcinoma. Reske SN, et al. **J Nucl Med** 1997 Sep;38(9):1344–8
Abnormal cerebral glucose metabolism in HIV–1 seropositive subjects with and without dementia. Rottenberg DA, et al. **J Nucl Med** 1996 Jul;37(7):1133–41
Cerebral glucose metabolism during pharmacologic studies: test–retest under placebo conditions. Schmidt ME, et al. **J Nucl Med** 1996 Jul;37(7):1142–9
Technetium–99m–MIBI versus fluorine–18–FDG in diffuse multiple myeloma. el–Shirbiny AM, et al. **J Nucl Med** 1997 Aug;38(8):1208–10
Nigrostriatal dopaminergic imaging with iodine–123–beta CIT–FP/SPECT and fluorine–18–FDOPA/PET [letter] [see comments] Tissingh G, et al. **J Nucl Med** 1997 Aug; 38(8):1271–2. Comment in: J Nucl Med 1997 Aug;38(8):1266–7.
Cerebral metabolic differences in Parkinson's and Alzheimer's diseases matched for dementia severity. Vander Borght T, et al. **J Nucl Med** 1997 May; 38(5):797–802
Imaging beta–adrenoceptors in the human brain with (S)–1'–[18F]fluorocarazolol. van Waarde A, et al. **J Nucl Med** 1997 Jun;38(6):934–9
Peptide T and glucose metabolism in AIDS dementia complex. Villemagne VL, et al. **J Nucl Med** 1996 Jul; 37(7):1177–80
Reproducibility and discriminating ability of fluorine–18–6–fluoro–L–Dopa PET in Parkinson's disease. Vingerhoets FJ, et al. **J Nucl Med** 1996 Mar;37(3):421–6
Effect of myocardial viability assessed by technetium–99m–sestamibi SPECT and fluorine–18–FDG PET on clinical outcome in coronary artery disease. vom Dahl J, et al. **J Nucl Med** 1997 May;38(5):742–8
Modeling of fluorine–18–6–fluoro–L–Dopa in humans [see comments] Wahl L, et al. **J Nucl Med** 1996 Mar;37(3):432–7 . Comment in: J Nucl Med 1997 Aug;38(8):1267–71.
Fluorine–18–FDG PET and iodine–123–IMT SPECT in the evaluation of brain tumors. Weber W, et al. **J Nucl Med** 1997 May;38(5):802–8
False–positive FDG–PET imaging of the thymus of a child with Hodgkin's disease. Weinblatt ME, et al. **J Nucl Med** 1997 Jun;38(6):888–90
Derivation of input function from FDG–PET studies in small hearts. Wu HM, et al. **J Nucl Med** 1996 Oct;37(10):1717–22
Quantification of serial tumor glucose metabolism. Wu HM, et al. **J Nucl Med** 1996 Mar;37(3):506–13
Influence of chemotherapy on FDG uptake by human cancer xenografts in nude mice. Yoshioka T, et al. **J Nucl Med** 1997 May;38(5):714–7
Development of oncology protocol using fluorine–18–FDG: one center's experience. Cronin V, et al. **J Nucl Med Technol** 1997 Mar;25(1):66–9
Technical improvements in fluorine–18–FDG PET imaging of the abdomen and pelvis. Leisure GP, et al. **J Nucl Med Technol** 1997 Jun;25(2):115–9
PET FDG studies of Wilms tumors. Shulkin BL, et al. **J Pediatr Hematol Oncol** 1997 Jul–Aug;19(4):334–8
Temporal lobe epilepsy: correlation of proton magnetic resonance spectroscopy and 18F–fluorodeoxyglucose positron emission tomography. Lu D, et al. **Magn Reson Med** 1997 Jan;37(1):18–23
Positron emission tomography in the detection and management of metastatic melanoma. Damian DL, et al. **Melanoma Res** 1996 Aug;6(4):325–9
Dopaminergic function in patients with posttraumatic parkinsonism: an 18F–dopa PET study. Turjanski N, et al. **Neurology** 1997 Jul;49(1):183–9
Vulnerability to tardive dyskinesia development in schizophrenia: an FDG–PET study of cerebral metabolism. Szymanski S, et al. **Neuropsychopharmacology** 1996 Dec; 15(6):567–75
18F–labeling and biodistribution of the novel fluoro–quinolone antimicrobial agent, trovafloxacin (CP 99,219). Babich JW, et al. **Nucl Med Biol** 1996 Nov; 23(8):995–8
In vivo binding of [18F]altanserin to rat brain 5HT2 receptors: a film and electronic autoradiographic study. Biver F, et al. **Nucl Med Biol** 1997 May;24(4):357–60
Assessment of the biodistribution and metabolism of 5–fluorouracil as monitored by 18F PET and 19F MRI: a comparative animal study. Brix G, et al. **Nucl Med Biol** 1996 Oct;23(7):897–906
Radiosynthesis of [18F] N–3–fluoropropyl–2–beta–carbomethoxy–3–beta–(4–iodophenyl) nortropane and the first human study with positron emission tomography. Chaly T, et al. **Nucl Med Biol** 1996 Nov;23(8):999–1004
PET and [18F]–FDG in oncology: a clinical update. Conti PS, et al. **Nucl Med Biol** 1996 Aug;23(6):717–35 (220 ref.)
Evaluation of 3–[18F]fluoro–alpha–fluoromethyl–p–tyrosine as a tracer for striatal tyrosine hydroxylase activity. DeJesus OT, et al. **Nucl Med Biol** 1994 May;21(4):663–7
Synthesis and evaluation of [18F] labeled benzamides: high affinity sigma receptor ligands for PET imaging. Dence CS, et al. **Nucl Med Biol** 1997 May;24(4):333–40
Fluorine–18–labelled NCQ 115, a selective dopamine D–2 receptor ligand. Preparation and positron emission tomography. Halldin C, et al. **Nucl Med Biol** 1994 May; 21(4):627–31
PET FDG studies in oncology. Hawkins RA, et al. **Nucl Med Biol** 1994 Jul;21(5):739–47
Bone marrow uptake of fluorine–18–fluorodeoxyglucose following treatment with hematopoietic growth factors: initial evaluation. Knopp MV, et al. **Nucl Med Biol** 1996 Aug;23(6):845–9
A review of new oncotropic tracers for PET imaging. Lang L, et al. **Nucl Med Biol** 1996 Aug;23(6):669–72 (34 ref.)
Analysis of blood clearance and labeled metabolites for the estrogen receptor tracer [F–18]–16 alpha–fluoroestradiol (FES). Mankoff DA, et al. **Nucl Med Biol** 1997 May; 24(4):341–8
Synthesis of 2–[18F]fluoro–2–deoxy–L–glucose and positron emission tomography studies in monkeys. Meng J, et al. **Nucl Med Biol** 1994 May;21(4):633–40
Radiation dosimetry of [18F] (N–methyl)benperidol as determined by whole–body PET imaging of primates. Moerlein SM, et al. **Nucl Med Biol** 1997 May;24(4):311–8
Development of labeled thymidine analogs for imaging tumor proliferation. Shields AF, et al. **Nucl Med Biol** 1996 Jan; 23(1):17–22
The synthesis of fluorine–18 lomefloxacin and its preliminary use in human studies. Tewson TJ, et al. **Nucl Med Biol** 1996 Aug;23(6):767–72
PET–pharmacokinetics of 18F–octreotide: a comparison with 67Ga–DFO– and 86Y–DTPA–octreotide. Wester HJ, et al. **Nucl Med Biol** 1997 May;24(4):275–86
[18F]fluoroalkyl analogues of the potent 5–HT1A antagonist WAY 100635: radiosyntheses and in vivo evaluation. Wilson AA, et al. **Nucl Med Biol** 1996 May;23(4):487–90
Positron–labeled antioxidant 6–deoxy–6–[18F]fluoro–L–ascorbic acid: increased uptake in transient global ischemic rat brain. Yamamoto F, et al. **Nucl Med Biol** 1996 May;23(4):479–86
Fluorinated benzazepines: 1. Synthesis, radiosynthesis and biological evaluation of a series of substituted benzazepines as potential radiotracers for positron emission tomographic studies of dopamine D–1 receptors. Yang ZY, et al. **Nucl Med Biol** 1996 Aug;23(6):793–805
Detection of bony metastases of androgen–independent prostate cancer by PET–FDG. Yeh SD, et al. **Nucl Med Biol** 1996 Aug;23(6):693–7
Cardiac 18F–FDG–SPET studies in patients with non–insulin–dependent diabetes mellitus during hyperinsulinaemic euglycaemic clamping. Bax JJ, et al. **Nucl Med Commun** 1997 Mar;18(3):200–6
Myocardial viability assessed with fluorodeoxyglucose and PET in patients with Q wave myocardial infarction receiving thrombolysis: relationship to coronary anatomy and ventricular function. Fragasso G, et al. **Nucl Med Commun** 1997 Mar;18(3):191–9
Whole–body scintigraphy with 99Tcm–MIBI, 18F–FDG and 131I in patients with metastatic thyroid carcinoma. Fridrich L, et al. **Nucl Med Commun** 1997 Jan;18(1):3–9
Reliability of a simple non–invasive method for the evaluation of 5–HT2 receptors using [18F]–setoperone PET imaging. Kapur S, et al. **Nucl Med Commun** 1997 May;18(5):395–9
Focal metabolic activation in the predominant left auditory cortex in patients suffering from tinnitus: a PET study with [18F]deoxyglucose. Arnold W, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Jul–Aug; 58(4):195–9
Automated image registration for FDOPA PET studies. Lin KP, et al. **Phys Med Biol** 1996 Dec;41(12):2775–88
Factors influencing the in vivo pharmacokinetics of peptides and antibody fragments: the pharmacokinetics of two PET–labeled low molecular weight proteins. Lang L, et al. **Q J Nucl Med** 1997 Jun;41(2):53–61
Axillary lymph node metastases: screening with [F–18]2–deoxy–2–fluoro–D–glucose (FDG) PET. Adler LP, et al. **Radiology** 1997 May;203(2):323–7
Non–small cell lung cancer: nodal staging with FDG PET versus CT with correlative lymph node mapping and sampling. Steinert HC, et al. **Radiology** 1997 Feb; 202(2):441–6
Normal physiological and benign pathological variants of 18–fluoro–2–deoxyglucose positron–emission tomography scanning: potential for error in interpretation. Cook GJ, et al. **Semin Nucl Med** 1996 Oct;26(4):308–14 (12 ref.)
Imaging of cholinergic terminals using the radiotracer [18F](+)–4–fluorobenzyltrozamicol: in vitro binding studies and positron emission tomography studies in nonhuman primates. Mach RH, et al. **Synapse** 1997 Apr; 25(4):368–80
Evaluation of pleural diseases with FDG–PET imaging: preliminary report. Bury T, et al. **Thorax** 1997 Feb; 52(2):187–9
18F–fluorodeoxyglucose PET scans in lung cancer. Hughes JM. **Thorax** 1996 Aug;51 Suppl 2:S16–22 (34 ref.)
The contribution of positron emission tomography (PET) with 18F–fluorodeoxyglucose (FDG) in the preoperative detection of axillary metastases of breast cancer: the experience of the National Cancer Institute of Milan. Crippa F, et al. **Tumori** 1997 Mar–Apr;83(2):542–3
The role of fluorine–18–deoxyglucose (FDG) positron emission tomography (PET) whole body scan (WBS) in the staging and follow–up of cancer patients: our first experience. Ferlin G, et al. **Tumori** 1997 May–Jun; 83(3):679–84
Radiopharmaceuticals for breast cancer imaging. Maffioli L, et al. **Tumori** 1997 Mar–Apr;83(2):512–4
[Quantification of liver hypoxia with [18F]fluoromisonidazole and positron emission tomography (PET)] Dissmann PD, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:221–7 (Eng. Abstr.) **(Ger)**
[18Fluoro–FDG SPECT for the demonstration of

hibernating myocardium: an interim account] Alexander C, et al. **Nuklearmedizin** 1997 Jun;36(4):125–30 (Eng. Abstr.) **(Ger)**

[Metabolic characterization of ovarian tumors with positron-emission tomography and F-18 fluorodeoxyglucose] Römer W, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):62–8 (Eng. Abstr.) **(Ger)**

[Positron emission tomography (PET) with fludeoxyglucose F 18 in the study of adrenal masses: comparison of benign and malignant lesions] Maurea S, et al. **Radiol Med (Torino)** 1996 Dec;92(6):782–7 (Eng. Abstr.) **(Ita)**

[Diagnosis of cancers by FDG-PET] Ichiya Y. **Fukuoka Igaku Zasshi** 1997 Jan;88(1):7–10 (2 ref.) **(Jpn)**

[Cost effectiveness analysis of FDG-PET in the differential diagnosis and staging of lung cancer in Japan] Kubota K, et al. **Kaku Igaku** 1997 May;34(5):329–36 (Eng. Abstr.) **(Jpn)**

[The usefulness of 18F-FDG SPECT imaging in evaluating myocardial viability] Sato H, et al. **Kaku Igaku** 1997 Mar; 34(3):137–43 (Eng. Abstr.) **(Jpn)**

[Comparison of the number of parameters using nonlinear iteration methods for compartment model analysis with 18F-FDG brain PET] Taguchi A, et al. **Kaku Igaku** 1997 Jan;34(1):25–34 (Eng. Abstr.) **(Jpn)**

[Cancer screening with whole-body FDG PET] Yasuda S, et al. **Kaku Igaku** 1996 Oct;33(10):1065–71 (Eng. Abstr.) **(Jpn)**

[Tumor diagnosis using 18F-FDG SPECT] Sugiyama S, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):679–80 (Eng. Abstr.) **(Jpn)**

[18F-fluorodeoxyglucose positron emission tomography in Parkinson's disease] Arahata Y, et al. **Nippon Rinsho** 1997 Jan;55(1):222–6 (19 ref.) (Eng. Abstr.) **(Jpn)**

[PET study using 6-[18F]-fluorodopa in Parkinson's disease] Nagasawa H, et al. **Nippon Rinsho** 1997 Jan;55(1):213–7 (15 ref.) (Eng. Abstr.) **(Jpn)**

[A case of familial juvenile dystonia-parkinsonism: 18F-6-fluorodopa and 18F-fluoro-2-deoxyglucose PET study] Hanakawa T, et al. **Rinsho Shinkeigaku** 1996 May; 36(5):655–60 (Eng. Abstr.) **(Jpn)**

METABOLISM

Metabolic fate of the sympathoneural imaging agent 6-[18F]fluorodopamine in humans. Goldstein DS, et al. **Clin Exp Hypertens** 1997 Jan-Feb;19(1-2):155–61

P-[18F]-MPPF: a potential radioligand for PET studies of 5-HT1A receptors in humans. Shiue CY, et al. **Synapse** 1997 Feb;25(2):147–54

PHARMACOKINETICS

Superiority of C-11 acetate compared with F-18 fluorodeoxyglucose in predicting myocardial functional recovery by positron emission tomography in patients with acute myocardial infarction. Rubin PJ, et al. **Am J Cardiol** 1996 Dec 1;78(11):1230–5

The development of estrogen and progestin radiopharmaceuticals for imaging breast cancer. Katzenellenbogen JA, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1573–6

6-[18F]fluoro-L-m-tyrosine: metabolism, positron emission tomography kinetics, and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine lesions in primates. Jordan S, et al. **Brain Res** 1997 Mar 7; 750(1-2):264–76

18F-2-deoxyglucose deposition and regional flow in pigs with chronically dysfunctional myocardium. Evidence for transmural variations in chronic hibernating myocardium. Fallavollita JA, et al. **Circulation** 1997 Apr 1;95(7):1900–9

Fluorine-18-FPCT: a PET radiotracer for imaging dopamine transporters. Goodman MM, et al. **J Nucl Med** 1997 Jan; 38(1):119–26

Effect of hyperglycemia on in vitro tumor uptake of tritiated FDG, thymidine, L-methionine and L-leucine. Torizuka T, et al. **J Nucl Med** 1997 Mar;38(3):382–6

No-carrier-added iodine-131-FIBG: evaluation of an MIBG analog. Vaidyanathan G, et al. **J Nucl Med** 1997 Feb; 38(2):330–4

A kinetic comparison of [18F]2-fluoro-2-deoxyglucose and [18F]2-fluoro-2-deoxymannose using positron emission tomography. Braun AR, et al. **Nucl Med Biol** 1994 Aug; 21(6):857–63

Synthesis and evaluation of an 18F-labeled dopa prodrug as a PET tracer for studying brain dopamine metabolism. Ishiwata K, et al. **Nucl Med Biol** 1996 Apr;23(3):295–301

8-[18F]fluorooctanoic acid and its beta-substituted derivatives as potential agents for cerebral fatty acid studies: synthesis and biodistribution. Nagatsugi F, et al. **Nucl Med Biol** 1994 Aug;21(6):809–17

Fluorine-18-labeled [Nle4,D-Phe7]-alpha-MSH, an alpha-melanocyte stimulating hormone analogue. Vaidyanathan G, et al. **Nucl Med Biol** 1997 Feb;24(2):171–8

18F-radiopharmacokinetics of [18F]-5-fluorouracil in a mouse bearing two colon tumors with a different 5-fluorouracil sensitivity: a study for a correlation with oncological results. Visser GW, et al. **Nucl Med Biol** 1996 Apr;23(3):333–42

In vivo evaluation of [18F]1-(3-fluoropropyl)-4-(4-cyanophenoxymethyl) piperidine: a selective sigma-1 receptor radioligand for PET. Waterhouse RN, et al. **Nucl Med Biol** 1997 Feb; 24(2):127–34

[18F]fluoroalkyl analogues of the potent 5-HT1A antagonist WAY 100635: radiosyntheses and in vivo evaluation. Wilson AA, et al. **Nucl Med Biol** 1996 May;23(4):487–90

Synthesis and preliminary evaluation of (S)-(2-[18F]fluoro-4,5-dihydroxyphenyl)-2-methyl L-alanine, (S)-[18F]-FMEDOPA, a potentially improved imaging agent for the presynaptic dopaminergic nervous system. Yost Y, et al. **Nucl Med Biol** 1996 Oct;23(7):857–65

Dependency of standardized uptake values of fluorine-18 fluorodeoxyglucose on body size: comparison of body surface area correction and lean body mass correction. Kim CK, et al. **Nucl Med Commun** 1996 Oct;17(10):890–4

[18F]fluorodeoxyglucose uptake in neonatal acute lung injury measured by positron emission tomography. Kirpalani H, et al. **Pediatr Res** 1997 Jun;41(6):892–6

Factors influencing the in vivo pharmacokinetics of peptides and antibody fragments: the pharmacokinetics of two PET-labeled low molecular weight proteins. Lang L, et al. **Q J Nucl Med** 1997 Jun;41(2):53–61

Insulin-induced hypoglycemia decreases uptake of 2-[F-18]fluoro-2-deoxy-D-glucose into experimental mammary carcinoma. Torizuka T, et al. **Radiology** 1997 Apr;203(1):169–72

STANDARDS

The standardisation of fluorine-18. van der Gaast HA. **Australas Phys Eng Sci Med** 1995 Dec;18(4):177–84

FLUOROACETATES

CHEMISTRY

Perfluorinated acid alternatives to trifluoroacetic acid for reversed-phase high-performance liquid chromatography. Pearson JD, et al. **J Chromatogr A** 1996 Oct 11; 746(2):277–81

METABOLISM

Fluoroacetate content of some species of the toxic Australian plant genus, Gastrolobium, and its environmental persistence. Twigg LE, et al. **Nat Toxins** 1996;4(3):122–7

PHARMACOKINETICS

Use of fluorocitrate and fluoroacetate in the study of brain metabolism. Fonnum F, et al. **Glia** 1997 Sep;21(1):106–13 (58 ref.)

PHARMACOLOGY

Regional differences in glial cell modulation of synaptic transmission. Keyser DO, et al. **Hippocampus** 1997; 7(1):73–7

Heptanol but not fluoroacetate prevents the propagation of spreading depression in rat hippocampal slices. Largo C, et al. **J Neurophysiol** 1997 Jan;77(1):9–16

Expression cassettes for formaldehyde and fluoroacetate resistance, two dominant markers in Saccharomyces cerevisiae. van den Berg MA, et al. **Yeast** 1997 May; 13(6):551–9

POISONING

Clinical presentation and prognostic factors in sodium monofluoroacetate intoxication. Chi CH, et al. **J Toxicol Clin Toxicol** 1996;34(6):707–12

TOXICITY

Toxicity of Palicourea marcgravii: combined effects of fluoroacetate, N-methyltyramine and 2-methyltetrahydro-beta-carboline. Kemmerling W. **Z Naturforsch [C]** 1996 Jan-Feb;51(1-2):59–64

FLUOROBENZENES

Assay of plasma homocysteine: light sensitivity of the fluorescent 7-benzo-2-oxa-1, 3-diazole-4-sulfonic acid derivative, and use of appropriate calibrators. Dudman NP, et al. **Clin Chem** 1996 Dec;42(12):2028–32

In situ derivatisation and extraction of volatile fatty acids entrapped on anion-exchange resin from aqueous solutions and urine as a test matrix using pentafluorobenzyl bromide in supercritical carbon dioxide. Cummins MT, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):11–9

Methods to reduce background interferences in electron-capture gas chromatographic analysis of valproic acid and its unsaturated metabolites after derivatization with pentafluorobenzyl bromide. Dills RL, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):139–52

Determination of hexahydrophthalic acid and methylhexahydrophthalic acid in plasma after derivatisation with pentafluorobenzyl bromide using gas chromatography and mass spectrometric detection. Lindh CH, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11; 691(2):331–9

ANALYSIS

Development of a simple liquid chromatographic method for the separation of mixtures of positional isomers and anomers of synthetic 2-, 3- and 4-fluorobenzoic acid glucuronides formed via acyl migration reactions. Sidelmann U, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):113–22

Electron-capture detection: difluorobenzyl and related electrophores. Wang Z, et al. **J Chromatogr B Biomed Appl** 1997 Feb 7;689(1):195–203

BLOOD

In situ derivatisation and extraction of volatile fatty acids entrapped on anion-exchange resin from aqueous solutions and urine as a test matrix using pentafluorobenzyl bromide in supercritical carbon dioxide. Cummins MT, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):11–9

CHEMICAL SYNTHESIS

Synthesis and preliminary evaluation of para- and meta-[18F]fluorobenzylguanidine. Garg PK, et al. **Nucl Med Biol** 1994 Jan;21(1):97–103

CHEMISTRY

Determination of plasma total homocysteine and cysteine using HPLC with fluorescence detection and an ammonium 7-fluoro-2, 1, 3-benzoxadiazole-4-sulphonate (SBD-F) derivatization protocol optimized for antioxidant concentration, derivatization reagent concentration, temperature and matrix pH. Daskalakis I, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):205–12

Preparation and properties of N alpha-Bpoc-amino acid pentafluorophenyl esters. Carey RI, et al. **J Pept Res** 1997 Jun;49(6):570–81

The use of pentafluorophenyl derivatives for the 18F labelling of proteins. Herman LW, et al. **Nucl Med Biol** 1994 Oct;21(7):1005–10

DIAGNOSTIC USE

Para-[18F]fluorobenzylguanidine kinetics in a canine coronary artery occlusion model. Berry CR, et al. **J Nucl Cardiol** 1996 Mar-Apr;3(2):119–29

Uptake and retention kinetics of para-fluorine-18-fluorobenzylguanidine in isolated rat heart. Berry CR, et al. **J Nucl Med** 1996 Dec;37(12):2011–6

Development of central 5-HT2A receptor radioligands for PET: comparison of [3H]RP 62203 and [3H]SR 46349B kinetics in rat brain. Ashworth S, et al. **Nucl Med Biol** 1996 Apr;23(3):245–50

METABOLISM

MP8-dependent oxidative dehalogenation: evidence for the direct formation of 1,4-benzoquinone from 4-fluorophenol by a peroxidase-type of reaction pathway. Osman AM, et al. **Chem Biol Interact** 1997 May 2;104(2-3):147–64

[3H]MDL 100,907: a novel selective 5-HT2A receptor ligand. Johnson MP, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):205–9

PHARMACOKINETICS

Influence of substituents in fluorobenzene derivatives on the cytochrome P450-catalyzed hydroxylation at the adjacent ortho aromatic carbon center. Koerts J, et al. **Chem Res Toxicol** 1997 Mar;10(3):279–88

Preclinical evaluation and PET imaging of 18F-labeled Mel-14 F(ab')2 fragment in normal dogs. Page RL, et al. **Nucl Med Biol** 1994 Oct;21(7):911–9

PHARMACOLOGY

Reversal of amphetamine-induced behaviours by MDL 100,907, a selective 5-HT2A antagonist. Moser PC, et al. **Behav Brain Res** 1996;73(1-2):163–7

Comparison of neurotensin responses to MDL 100,907, a selective 5HT2A antagonist, with clozapine and haloperidol. Hanson GR, et al. **Brain Res Bull** 1997; 42(3):211–9

Effects of the selective 5-HT2A receptor antagonist MDL 100,907 on MDMA-induced locomotor stimulation in rats. Kehne JH, et al. **Neuropsychopharmacology** 1996 Aug; 15(2):116–24

5-HT modulation of auditory and visual sensorimotor gating: II. Effects of the 5-HT2A antagonist MDL 100,907 on disruption of sound and light prepulse inhibition produced by 5-HT agonists in Wistar rats. Padich RA, et al. **Psychopharmacology (Berl)** 1996 Mar;124(1-2):107–16

Modulation of platelet function and vascular smooth muscle contractile actions by a novel, selective, highly potent 5-HT2 antagonist (SR46349). Yang LH, et al. **Thromb Res** 1996 Mar 1;81(5):555–67

FLUOROCARBON AEROSOLS see **FREONS**

FLUOROCARBON EMULSIONS see **FLUOROCARBONS**

FLUOROCARBON POLYMERS

Enzyme immunoassay technique using alkaline phosphatase enzyme labels and a Nafion electrode as sensor. Degrand C, et al. **J Pharm Biomed Anal** 1996 Jun;14(8-10):1343–9

Lithium/carbon monofluoride (Li/CFx): a new pacemaker battery. Greatbatch W, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1836–40

FLUOROCARBON POLYMERS

Effect of postoperative treatment with a combination of chuangxiong and electret on functional recovery of muscle grafts: an experimental study in the dog. Hua J, et al. **Plast Reconstr Surg** 1996 Oct;98(5):851–5

CHEMISTRY

Effect of polyanions on ferricytochrome c. Sedlák E. **Biochem Mol Biol Int** 1997 Jan;41(1):25–32

Interaction of ferricytochrome c with polyanion Nafion. Sedlák E, et al. **Biochim Biophys Acta** 1997 Apr 11; 1319(2–3):258–66

Polyvinyl alcohol–coated perfluorocarbon supports for metal chelating affinity separation of a monoclonal antibody. Morgan PE, et al. **J Mol Recognit** 1996 Sep–Dec; 9(5–6):394–400

METABOLISM

Interaction of ferricytochrome c with polyanion Nafion. Sedlák E, et al. **Biochim Biophys Acta** 1997 Apr 11; 1319(2–3):258–66

TOXICITY

Mist particle diameters are related to the toxicity of waterproofing sprays: comparison between toxic and non–toxic products. Yamashita M, et al. **Vet Hum Toxicol** 1997 Apr;39(2):71–4

FLUOROCARBON PROPELLANTS see **FREONS**

FLUOROCARBON RESINS see **FLUOROCARBON POLYMERS**

FLUOROCARBONS

see related

BLOOD SUBSTITUTES

Use of a PFC–based oxygen carrier to lower the transfusion trigger in a canine model of hemodilution and surgical blood loss. Batra S, et al. **Adv Exp Med Biol** 1997; 411:377–81

Effect of perfluorochemical emulsion on hemorheology and shear induced blood trauma. Possible mechanisms and future applications. Kameneva MV, et al. **Adv Exp Med Biol** 1997;411:383–90

Clinicopathologic correlation of an untreated macular hole and a macular hole treated by vitrectomy, transforming growth factor–beta 2, and gas tamponade. Rosa RH Jr, et al. **Am J Ophthalmol** 1996 Dec;122(6):853–63

Beneficial effects of fluosol–polyethylene glycol cardioplegia on cold, preserved rabbit heart. Bhayana JN, et al. **Ann Thorac Surg** 1997 Feb;63(2):459–64

The effect of fluorocarbon emulsion on 24–hour canine heart preservation 1989: Updated in 1997 by Hidenori Gohra,MD, Yoshihiko Fujimura, MD, Kimikazu Hamano, MD, Hiroshi Noda, MD, Tomoe Katoh, MD, Nobuya Zempo, MD, and Kensuke Esato, MD. Gohra H, et al. **Ann Thorac Surg** 1997 Feb;63(2):594–5

Description of a project for the production and evaluation of oxygen–carrying hemosubstitutes. Briceño JC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):473–9

Perfluorochemicals and cell biotechnology. Lowe KC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):261–74 (47 ref.)

Beneficial effects of oxygenated fluorocarbon on the in vitro culture of protoplasts and cell electrofusion products. Wardrop J, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):481–6

Advances in the management of respiratory failure. Liquid ventilation in the setting of respiratory failure. Hirschl RB. **ASAIO J** 1996 May–Jun;42(3):209–10 (22 ref.)

Measurement of percent oxyhemoglobin by optical densitometry in perfluorocarbon supplemented blood. Murrah CP, et al. **ASAIO J** 1996 Sep–Oct;42(5):M769–73

"Teflon–coated peptides": hexafluoroacetone trihydrate as a structure stabilizer for peptides. Rajan R, et al. **Biopolymers** 1997 Aug;42(2):125–8

Successful 14–day preservation of rat skin using a two–layer cold–storage method. Chi L, et al. **Burns** 1996 Feb; 22(1):22–5

A novel site–targeted ultrasonic contrast agent with broad biomedical application [published erratum appears in Circulation 1997 May 20;95(10):2458] Lanza GM, et al. **Circulation** 1996 Dec 15;94(12):3334–40

Effect of hemoglobin– and Perflubron–based oxygen carriers on common clinical laboratory tests. Ma Z, et al. **Clin Chem** 1997 Sep;43(9):1732–7

Partial liquid ventilation enhances surfactant phospholipid synthesis [letter; comment] Godinez RI, et al. **Crit Care Med** 1997 Jul;25(7):1255. Comment on: Crit Care Med 1996 Jul;24(7):1252–6.

Gas chromatographic–mass spectrometric identification and quantitation of benzyl alcohol from human serum and postmortem blood after derivatization with 4–carbethoxy hexafluorobutyryl chloride: a novel derivative. Dasgupta A, et al. **J Forensic Sci** 1997 Jul;42(4):697–700

A novel derivatization of phenol after extraction from human serum using perfluorooctanoyl chloride for gas chromatography–mass spectrometric confirmation and quantification. Hart AP, et al. **J Forensic Sci** 1997 Jul; 42(4):693–6

Aerobic preservation of organs using a new perflubron/lecithin emulsion stabilized by molecular dowels. Voiglio EJ, et al. **J Surg Res** 1996 Jul 1; 63(2):439–46

Interaction of diagnostic ultrasound with synthetic oligonucleotide–labeled perfluorocarbon–exposed sonicated dextrose albumin microbubbles. Porter TR, et al. **J Ultrasound Med** 1996 Aug;15(8):577–84

A new technique of extracapsular restoration with a tie made of ethylene tetrafluoroethylene (ETFE) for rupture of the cranial cruciate ligament in dogs. Yamada E, et al. **J Vet Med Sci** 1996 Jun;58(6):571–5

Investigation of fluorocarbon blowing agents in insulating polymer foams by 19F NMR imaging. Fyfe CA, et al. **Magn Reson Imaging** 1996;14(7–8):887–9

Hexafluorobenzene: a sensitive 19F NMR indicator of tumor oxygenation. Mason RP, et al. **NMR Biomed** 1996 May; 9(3):125–34

Morphometrics of normal and hypoplastic lungs in preterm lambs with gas and partial liquid ventilation. Major D, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):121–5

Halothane administration during liquid ventilation. Kimless–Garber DB, et al. **Respir Med** 1997 May; 91(5):255–62

The microbiologic effect of gas filtration. Schneider TL, et al. **Retina** 1996;16(2):125–8

Perfluorochemical respiratory gas carriers: applications in medicine and biotechnology. Lowe KC. **Sci Prog** 1997;80 (Pt 2):169–93 (89 ref.)

Resuscitation of ischemically damaged pancreas by the two–layer (University of Wisconsin solution/perfluorochemical) mild hypothermic storage method. Matsumoto S, et al. **World J Surg** 1996 Oct; 20(8):1030–4

[A request for authorization to use tetrafluoroethane as a propellant gas for agents of removal presented in the form of aerosols] Delaveau P. **Bull Acad Natl Med** 1997 Feb; 181(2):345–9 **(Fre)**

[Liquid ventilation with perfluorocarbons (see comments)] Quintel M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):461–9 (72 ref.) (Eng. Abstr.). Comment in: Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Oct;31(8):459–60. **(Ger)**

[Liquid ventilation—fact or fiction? (editorial; comment)] van Ackern K. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):459–60. Comment on: Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Oct;31(8):461–9. **(Ger)**

[Partial liquid ventilation with perflubron in premature infants with severe respiratory distress syndrome] Quintel M. **Pneumologie** 1997 Feb;51(2):104–5 **(Ger)**

ADMINISTRATION & DOSAGE

The Silicone Study. A small piece of the PVR puzzle is put into place [editorial; comment] Campochiaro PA. **Arch Ophthalmol** 1997 Mar;115(3):407–8 (6 ref.). Comment on: Arch Ophthalmol 1997 Mar;115(3):335–44.

Formation and treatment of a traumatic macular hole. Madreperla SA, et al. **Arch Ophthalmol** 1997 Sep; 115(9):1210–1

A comparison of intratracheal and intravenous administration of gentamicin during liquid ventilation. Zelinka MA, et al. **Eur J Pediatr** 1997 May;156(5):401–4

Fluid vitreous substitutes in vitreo retinal surgery. Saxena S, et al. **Indian J Ophthalmol** 1996 Dec;44(4):191–206 (142 ref.)

Surgical management of traumatic retinal detachment with perfluorocarbon liquid. The Vitreon Study Group. Soheilian M, et al. **Int Ophthalmol** 1996–97;20(5):241–9

Retained perfluorodecalin after retinal detachment surgery. Wong TY, et al. **Int Ophthalmol** 1996–97;20(6):293–4

Perfluorocarbon compound aerosols for delivery to the lung as potential 19F magnetic resonance reporters of regional pulmonary pO2. Thomas SR, et al. **Invest Radiol** 1997 Jan; 32(1):29–38

Dissolution of thrombotic arterial occlusion by high intensity, low frequency ultrasound and dodecafluoropentane emulsion: an in vitro and in vivo study. Nishioka T, et al. **J Am Coll Cardiol** 1997 Aug;30(2):561–8

Hemodynamic characteristics, myocardial kinetics and microvascular rheology of FS–069, a second–generation echocardiographic contrast agent capable of producing myocardial opacification from a venous injection. Skyba DM, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1292–300

Partial liquid ventilation in newborn patients with congenital diaphragmatic hernia. Pranikoff T, et al. **J Pediatr Surg** 1996 May;31(5):613–8

Macular pucker after successful surgery for proliferative vitreoretinopathy. Silicone Study Report 8. Cox MS, et al. **Ophthalmology** 1995 Dec;102(12):1884–91

Vitrectomy, fluid–gas exchange and transforming growth factor—beta–2 for the treatment of traumatic macular holes. Rubin JS, et al. **Ophthalmology** 1995 Dec; 102(12):1840–5

[Liquid ventilation: a new mode of ventilation in neonatology?] Hamon I. **Arch Pediatr** 1997 Feb;4(2):176–80 (20 ref.) (Eng. Abstr.) **(Fre)**

[Retinal detachment caused by macular holes in patients with severe myopia: results of intravitreal injection of pure C3F8] Pernot A, et al. **J Fr Ophtalmol** 1996;19(8–9):491–5 (Eng. Abstr.) **(Fre)**

[The biomicroscopic evaluation of the blood microcirculatory bed in the mesentery of the small intestine during experimental perftoran infusion under normovolemia] Golubev AM, et al. **Morfologiia** 1996; 109(3):36–40 (Eng. Abstr.) **(Rus)**

[Use of liquid perfluorocarbons in ophthalmology] Strmeň P. **Cesk Slov Oftalmol** 1995 Oct;51(5):310–6 **(Slo)**

ADVERSE EFFECTS

Neutrophil activation and chemotaxis after in vitro treatment with perfluorocarbon. Rossman JE, et al. **J Pediatr Surg** 1996 Aug;31(8):1147–50; discussion 1150–1

Pulmonary pathology of patients treated with partial liquid ventilation. Bruch LA, et al. **Mod Pathol** 1997 May; 10(5):463–8

Pupillary block glaucoma due to residual perfluoro–decalin. Alster Y, et al. **Ophthalmic Surg Lasers** 1996 May; 27(5):395–6

Risk factors for elevated intraocular pressure after the use of intraocular gases in vitreoretinal surgery. Chen PP, et al. **Ophthalmic Surg Lasers** 1997 Jan;28(1):37–42

The complications of perfluoropropane gas use in complex retinal detachments. Sabates NR, et al. **Retina** 1996; 16(1):7–12

Experimental vitreous and aqueous replacement with perfluorophenanthrene. Clinical, histologic, and electrophysiologic results. Stolba U, et al. **Retina** 1997; 17(2):146–53

ANALYSIS

Sulfur hexafluoride and perfluoropropane do not escape from a plastic syringe closed with a stopcock. Ohji M, et al. **Am J Ophthalmol** 1997 May;123(5):709–11

Chlorofluorocarbon CFCs, potential alternative HCFCs and HFCs, and related chlorinated compounds: mass spectral study, Part II. Reizian–Fouley A, et al. **Ecotoxicol Environ Saf** 1997 Apr;36(3):197–204

Quantitative measurements of second harmonic Doppler using ultrasound contrast agents. Chang PH, et al. **Ultrasound Med Biol** 1996;22(9):1205–14

CHEMICAL SYNTHESIS

The syntheses of 3–substituted perfluoroalkyl steroids. Williams JR, et al. **Steroids** 1996 Feb;61(2):50–7

CHEMISTRY

Novel fluorinated surfactants for perfluorochemical emulsification: biocompatibility assessments of glycosidic and polyol derivatives. Edwards CM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):327–33

Advanced fluorocarbon–based systems for oxygen and drug delivery, and diagnosis. Riess JG, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):43–52 (36 ref.)

Beneficial effects of oxygenated fluorocarbon on the in vitro culture of protoplasts and cell electrofusion products. Wardrop J, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):481–6

Membrane permeability and stability of liposomes made from highly fluorinated double–chain phosphocholines derived from diaminopropanol, serine or ethanolamine. Clary L, et al. **Biochim Biophys Acta** 1997 Aug 14;1328(1):55–64

Phase behavior of fluorocarbon di–O–alkyl–glycerophosphocholines and glycerophosphoethanolamines and long–term shelf stability of fluorinated liposomes. Ravily V, et al. **Biochim Biophys Acta** 1997 Feb 21;1324(1):1–17

Membrane permeability and stability in buffer and in human serum of fluorinated di–O–alkylglycerophosphocholine–based liposomes. Ravily V, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):79–90

The chemistry of perfluoroisobutylene (PFIB) with nitrone and nitroso spin traps: an EPR/Spin trapping study. Arroyo CM. **Chem Biol Interact** 1997 Jul 11;105(2):119–29

Chemical and physical stability of perfluorocarbons with laser treatment. Meinert H, et al. **Eur J Ophthalmol** 1995 Oct–Dec;5(4):219–24

A model for the interaction of trifluoroethanol with peptides and proteins. Rajan R, et al. **Int J Pept Protein Res** 1996 Oct;48(4):328–36

Bond–specific chemical cleavages of peptides and proteins with perfluoric acid vapors: novel peptide bond cleavages of glycyl–threonine, the amino side of serine residues and the carboxyl side of aspartic acid residues. Kawakami T, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):68–76

Sonochemically produced fluorocarbon microspheres: a new class of magnetic resonance imaging agent. Webb AG, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):675–83

Affinity adsorption of Saccharomyces cerevisiae on concanavalin A perfluorocarbon emulsions. McCreath GE, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):607–16

Application of perfluorocarbons in novel continuous counter–current protein chromatography. Owen RO, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):575–84

Application of a 3D volume 19F MR imaging protocol for mapping oxygen tension (pO2) in perfluorocarbons at low field. Pratt RG, et al. **Magn Reson Med** 1997 Feb;

37(2):307–13

NiTi shape memory alloys treated by plasma–polymerized tetrafluoroethylene. A physicochemical and electrochemical characterization. Yahia LH, et al. **Med Prog Technol** 1996–97;21(4):187–93

Comparison of perfluorochemical fluids used for liquid ventilation: effect of endotracheal tube flow resistance. Fox WW, et al. **Pediatr Pulmonol** 1997 Jun;23(6):449–56

Fluorous synthesis: a fluorous–phase strategy for improving separation efficiency in organic synthesis. Studer A, et al. **Science** 1997 Feb 7;275(5301):823–6

DIAGNOSTIC USE

Renal, hepatic, and cardiac enhancement on Doppler and gray–scale sonograms obtained with EchoGen. Albrecht T, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S198–200

MRX 115, an echocardiographic contrast agent, produces myocardial opacification after intravenous injection in primates: studies before and after occlusion of left anterior descending coronary artery. Grauer SE, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S405–6

Placental enhancement with AF0145, a perfluorocarbon–stabilized microbubble sonographic contrast agent. Mattrey RF, et al. **Acad Radiol** 1996 Aug; 3 Suppl 2:S320–1

Virtual bronchoscopy with perfluoronated hydrocarbon enhancement. Milestone BN, et al. **Acad Radiol** 1997 Aug; 4(8):583–6

Myocardial imaging with a new transpulmonary lipid–fluorocarbon echo contrast agent: experimental studies in pigs. Grauer SE, et al. **Am Heart J** 1996 Nov; 132(5):938–45

Myocardial contrast echocardiography: reliable, safe, and efficacious myocardial perfusion assessment after intravenous injections of a new echocardiographic contrast agent. Meza M, et al. **Am Heart J** 1996 Oct;132(4):871–81

Gray–scale liver enhancement in VX2 tumor–bearing rabbits using BR14, a new ultrasonographic contrast agent. Schneider M, et al. **Invest Radiol** 1997 Jul;32(7):410–7

Detection of myocardial perfusion in multiple echocardiographic windows with one intravenous injection of microbubbles using transient response second harmonic imaging. Porter TR, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):791–9

Prolonged myocardial contrast echocardiography via peripheral venous administration of QW3600 injection (EchoGen): its efficacy and side effects [published erratum appears in J Am Soc Echocardiogr 1997 Jun;10(5):30A] Beppu S, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb; 10(1):11–24

Benefits of reducing the cardiac cycle–triggering frequency of ultrasound imaging to increase myocardial opacification with FSO69 during fundamental and second harmonic imaging. Colon PJ 3rd, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):602–7

Contrast echocardiographic quantification of regional myocardial perfusion: validation with an isolated rabbit heart model. Mor–Avi V, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):156–65

Detection of myocardial perfusion abnormalities during dobutamine and adenosine stress echocardiography with transient myocardial contrast imaging after minute quantities of intravenous perfluorocarbon–exposed sonicated dextrose albumin. Porter TR, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):779–86

Reduction in left ventricular cavitary attenuation and improvement in posterior myocardial contrast with higher molecular weight intravenous perfluorocarbon–exposed sonicated dextrose albumin microbubbles. Porter TR, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug;9(4):437–41

Rectal perflubron: new application in MRI of perirectal fistulae. Mergo PJ, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):259–64

Perfluorocarbons: recent developments and implications for neurosurgery. Sakas DE, et al. **J Neurosurg** 1996 Aug; 85(2):248–54 (124 ref.)

Ultrasonographic detection of testicular ischemia in a canine model using phospholipid coated microbubbles (MRX–115). Metzger–Rose C, et al. **J Ultrasound Med** 1997 May;16(5):317–24; quiz 325–6

Power, spectral, and color flow Doppler enhancement by a new ultrasonographic contrast agent. Pugh CR, et al. **J Ultrasound Med** 1996 Dec;15(12):843–52

Effects of vasodilators on the signal intensity of perfluorocarbon monitored by in vivo 19F–NMR spectroscopy. Sogabe T, et al. **Magn Reson Imaging** 1997; 15(3):341–5

Analysis of regional cerebral blood flow in dogs, with an experimental microbubble–based US contrast agent [see comments] Greenberg RS, et al. **Radiology** 1996 Oct; 201(1):119–23. Comment in: Radiology 1997 Jul;204(1):279–81.

Ability of a phase shift US contrast agent to improve imaging of the main renal arteries. Melany ML, et al. **Radiology** 1997 Oct;205(1):147–52

Renal cortical perfusion in rabbits: visualization with color amplitude imaging and an experimental microbubble–based US contrast agent. Taylor GA, et al. **Radiology** 1996 Oct; 201(1):125–9

Gray scale second harmonic imaging of the liver: a preliminary animal study. Kono Y, et al. **Ultrasound Med Biol** 1997;23(5):719–26

Second harmonic characteristics of the ultrasound contrast agents albunex and FSO69. Krishna PD, et al. **Ultrasound Med Biol** 1997;23(3):453–9

METABOLISM

A volume–controlled liquid ventilator with pressure–limit mode: imperative expiratory control. Baba Y, et al. **Artif Organs** 1996 Sep;20(9):1052–6

Modeling of oxygen uptake in perfluorocarbon emulsions. Some comparisons with uptake by blood. Shah N, et al. **ASAIO J** 1996 May–Jun;42(3):181–9

Biotransformation of the aerosol propellant 1,1,1,2,3,3,3–heptafluoropropane (HFA–227): lack of protein binding of the metabolite hexafluoroacetone. Köster U, et al. **Drug Metab Dispos** 1996 Aug;24(8):906–10

PHARMACOKINETICS

Osmotically stabilized microbubble sonographic contrast agents. Schutt EG, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S188–90

Recent developments in pharmacokinetic modeling of perfluorocarbon emulsions. Ni Y, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Mar; 24(2):81–90

The effect of anaesthesia on the intraocular volume of the C3F8 gas bubble. Briggs M, et al. **Eye** 1997;11 (Pt 1):47–52

Analysis of perfluorochemical elimination from the respiratory system. Shaffer TH, et al. **J Appl Physiol** 1997 Sep;83(3):1033–40

Subconjunctival retention of C3F8 gas increased the success rates of trabeculectomy in young people. Lu DW, et al. **J Ocul Pharmacol Ther** 1997 Jun;13(3):235–42

Liquid ventilation in premature lambs: uptake, biodistribution and elimination of perfluorodecalin liquid. Shaffer TH, et al. **Reprod Fertil Dev** 1996;8(3):409–16

PHARMACOLOGY

Longitudinal studies on the interaction of perfluorochemicals with liver cytochromes P–450 by means of testing the rate of detoxification of pentobarbital. Lutz J, et al. **Adv Exp Med Biol** 1997;411:391–4

Effects of perflubron emulsion and 100% oxygen breathing on local tissue PO2 in brain cortex of unanaesthetized rabbits. van Rossem K, et al. **Adv Exp Med Biol** 1997; 411:403–9

Effects of a novel perfluorocarbon emulsion on neutrophil chemiluminescence in human whole blood in vitro. Edwards CM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):255–60

Enhancement of brain p0(2) during cardiopulmonary bypass using a hyperosmolar oxygen carrying solution. Runge TM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May;25(3):297–308

Changes in brain pH, PO2, PCO2, cerebral blood flow, and blood gases induced by a hyperosmolar oxyreplete hemosubstitute during cardiopulmonary bypass. Briceño JC, et al. **ASAIO J** 1997 Jan–Feb;43(1):13–8

Perfluorodecanoic acid enhances the formation of oleic acid in rat liver. Yamamoto A, et al. **Biochem J** 1997 Jul 15; 325 (Pt 2):429–34

Differences in the induction of carboxylesterase RL4 in rat liver microsomes by various perfluorinated fatty acids, metabolically inert derivatives of fatty acids. Derbel M, et al. **Biol Pharm Bull** 1996 May;19(5):765–7

Suppressive effect of FC–43 perfluorocarbon emulsion on enhanced oxidative haemolysis in the early postburn phase. Bekyarova G, et al. **Burns** 1997 Mar;23(2):117–21

Perfluorocarbon emulsion prevents eicoasanoid release in skeletal muscle ischemia and reperfusion. Gennaro M, et al. **Cardiovasc Surg** 1996 Jun;4(3):399–404

Perfluorochemical oxygen carriers: potential uses in neurosciences. Sakas DE, et al. **Cerebrovasc Brain Metab Rev** 1996 Fall;8(3):209–29 (172 ref.)

Postischemic synthesis of high energy phosphates in isolated porcine hearts during reperfusion with 11 or 25 degrees C hypothermic perfluorocarbon emulsion FC 43. A 31P magnetic resonance spectroscopy study. Scheule AM, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):746–50

Perfluorodecanoic acid as a useful pharmacologic tool for the study of peroxisome proliferation. Vahden Heuvel JP. **Gen Pharmacol** 1996 Oct;27(7):1123–9 (60 ref.)

Echocardiographic contrast agents and left ventricular contractility: evaluation using an isolated rabbit heart model. Mor–Avi V, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug;9(4):452–61

Influence of moderate haemodilution with fluosol or normal saline on carbaryl disposition in Sprague–Dawley rats. Shrewsbury RP, et al. **J Pharm Pharmacol** 1997 Mar; 49(3):236–40

A perfluorochemical prevents ischemia–reperfusion injury of muscle. Yabe Y, et al. **J Surg Res** 1996 Jul 15;64(1):89–94

Activated Kupffer cells attenuate the liver response to the peroxisome proliferator perfluorooctanoic acid. Youssef J, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):143–7

Transient perfusion and radiosensitizing effect after nicotinamide, carbogen, and perflubron emulsion administration. Thomas CD, et al. **Radiother Oncol** 1996 Jun;39(3):235–41

Perfluorocarbon protects lung epithelial cells from neutrophil–mediated injury in an in vitro model of liquid ventilation therapy. Varani J, et al. **Shock** 1996 Nov; 6(5):339–44

Oxygen dynamics during partial liquid ventilation in a sheep model of severe respiratory failure. Parent AC, et al. **Surgery** 1997 Mar;121(3):320–7

Efficacy of perfluorotributylamine/pluronic F–68 stem–emulsion (FC43se) against reperfusion injury in ischemic rabbit lungs. Ueno T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1349–53

[Aspects of perfluoro–organic hemo–protection] Shevchenko IuL, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):17–9 (Eng. Abstr.) **(Rus)**

[Hemoprotective effect of perfluorodecalin] Skorik VI, et al. **Biull Eksp Biol Med** 1996 May;121(5):512–5 **(Rus)**

POISONING

Perfluorodecalin corneal toxicity: five case reports. Wilbanks GA, et al. **Cornea** 1996 May;15(3):329–34

RADIATION EFFECTS

Interaction between infrared radiation and vitreous substitutes. Azzolini C, et al. **Arch Ophthalmol** 1997 Jul; 115(7):899–903

Chemical and physical stability of perfluorocarbons with laser treatment. Meinert H, et al. **Eur J Ophthalmol** 1995 Oct–Dec;5(4):219–24

THERAPEUTIC USE

Partial liquid ventilation (PLV) in acute respiratory failure. Quintel M, et al. **Acta Anaesthesiol Scand Suppl** 1996; 109:73–4

Supporting tissue oxygenation during acute surgical bleeding using a perfluorochemical–based oxygen carrier. Keipert PE, et al. **Adv Exp Med Biol** 1996;388:603–9

Selective aortic arch perfusion during cardiac arrest: enhanced resuscitation using oxygenated perflubron emulsion, with and without aortic arch epinephrine. Manning JE, et al. **Ann Emerg Med** 1997 May;29(5):580–7

Perfluorocarbon emulsion in the cardiopulmonary bypass prime reduces neurologic injury. Cochran RP, et al. **Ann Thorac Surg** 1997 May;63(5):1326–32

Increased antioxidant capacity, suppression of free radical damage and erythrocyte aggrerability after combined application of alpha–tocopherol and FC–43 perfluorocarbon emulsion in early postburn period in rats. Bekyarova G, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):629–41

Quantitative structure–activity relationships of perfluorinated hetero–hydrocarbons as potential respiratory media. Application to oxygen solubility, partition coefficient, viscosity, vapor pressure, and density. Gabriel JL, et al. **ASAIO J** 1996 Nov–Dec;42(6):968–73

Partial liquid ventilation—turning back a PAGE on evolution [editorial] Kelly KP. **Br J Anaesth** 1997 Jan;78(1):1–2

Perfluorodecalin and silicone oil used to achieve retinal tamponade left in an eye for 6 months [letter] Geh VS, et al. **Br J Ophthalmol** 1997 Mar;81(3):252–3

Partial liquid ventilation with Perflubron in premature infants with severe respiratory distress syndrome. Spitzer AR, et al. **Clin Pediatr (Phila)** 1997 Mar;36(3):181–2

High–frequency oscillatory ventilation with partial liquid ventilation in a model of acute respiratory failure. Baden HP, et al. **Crit Care Med** 1997 Feb;25(2):299–302

Partial liquid ventilation: a comparison using conventional and high–frequency techniques in an animal model of acute respiratory failure [see comments] Smith KM, et al. **Crit Care Med** 1997 Jul;25(7):1179–86. Comment in: Crit Care Med 1997 Jul;25(7):1104–5.

You take the high mode and I'll take the low mode...for now [editorial; comment] Zimmerman JJ, et al. **Crit Care Med** 1997 Jul;25(7):1104–5. Comment on: Crit Care Med 1997 Jul;25(7):1179–86.

Liquid ventilation: an alternative ventilation strategy for management of neonatal respiratory distress. Shaffer TH, et al. **Eur J Pediatr** 1996 Aug;155 Suppl 2:S30–4 (48 ref.)

Partial liquid ventilation in neonates. Rajeshwari K. **Indian Pediatr** 1997 Feb;34(2):166–7

The use of liquid perfluorocarbons for neonatal lung ventilation. Costantino ML. **Int J Artif Organs** 1996 May; 19(5):284–90

Partial liquid ventilation provides effective gas exchange in a large animal model. Overbeck MC, et al. **J Crit Care** 1996 Mar;11(1):37–42

Treatment of recurrent malignant glioma with BCNU–fluosol and oxygen inhalation. A phase I–II study. Hochberg F, et al. **J Neurooncol** 1997 Mar;32(1):45–55

Perfluorocarbons: recent developments and implications for neurosurgery. Sakas DE, et al. **J Neurosurg** 1996 Aug; 85(2):248–54 (124 ref.)

Partial liquid ventilation (PLV) and lung injury: is PLV able to modify pulmonary vascular resistance? Aly H, et al. **J Pediatr Surg** 1997 Feb;32(2):197–201; discussion 201–2

The use of perfluorocarbon–associated gas exchange to improve ventilation and decrease mortality after inhalation injury in a neonatal swine model. Fitzpatrick JC, et al. **J Pediatr Surg** 1997 Feb;32(2):192–6

Oxygenated intraluminal perfluorocarbon protects intestinal muscosa from ischemia/reperfusion injury. O'Donnell KA, et al. **J Pediatr Surg** 1997 Feb;32(2):361–5

FLUOROCARBONS

Partial liquid ventilation and nitric oxide in congenital diaphragmatic hernia. Wilcox DT, et al. **J Pediatr Surg** 1997 Aug;32(8):1211–5

Perflubron in infants with severe respiratory distress syndrome [letter; comment] Salon JE. **N Engl J Med** 1997 Feb 27;336(9):660. Comment on: N Engl J Med 1996 Sep 12;335(11):761–7.

A liquid panacea for failing lungs [news] Hirschl RB. **Nat Med** 1996 Nov;2(11):1195–6

Use of perfluorocarbon liquid in the repair of retinoschisis retinal detachments. Lomeo MD, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):778–81

The management of giant retinal tears using perfluoroperhydrophenanthrene. A multicenter case series. Vitreon Collaborative Study Group. Kertes PJ, et al. **Ophthalmology** 1997 Jul;104(7):1159–65

Partial liquid ventilation combined with inhaled nitric oxide in acute respiratory failure with pulmonary hypertension in piglets. Zobel G, et al. **Pediatr Res** 1997 Feb;41(2):172–7

Acute respiratory distress syndrome: CT findings during partial liquid ventilation. Meaney JF, et al. **Radiology** 1997 Feb;202(2):570–3

Use of perflubron as a new temporary vitreous substitute and manipulation agent for vitreoretinal surgery. Wills Eye Hospital Perflubron Study Group. Banker AS, et al. **Retina** 1996;16(4):285–91

Removal of subretinal gas using perfluorocarbon liquid. Brown AD, et al. **Retina** 1997;17(1):70–1

Intraocular tamponade duration and success of macular hole surgery. Thompson JT, et al. **Retina** 1996;16(5):373–82

[Use of perfluorodecalin in giant retinal tear retinal detachment surgery] Dai H, et al. **Chung Hua Yen Ko Tsa Chih** 1995 Jul;31(4):259–61 (Eng. Abstr.) **(Chi)**

[Retinal detachment and posterior lens luxation. Value of liquid perfluorocarbons] Nacef L, et al. **J Fr Ophtalmol** 1996;19(6–7):432–4 (10 ref.) (Eng. Abstr.) **(Fre)**

[Extrapulmonary fluorocarbon oxygenation] Moroz VV, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):20–3 **(Rus)**

[The use of perftoran in clinical medicine] Moroz VV, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):12–7 **(Rus)**

[Changes in clinico–immunological indices of experimental allergic encephalomyelitis after treatment with perftoran] Zhitnukhin IuL, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):315–8 **(Rus)**

[The effect of perftoran on the resistance of mice to GABA receptor antagonists and on the antidote activity of anticonvulsant agents] Golovko AI, et al. **Eksp Klin Farmakol** 1996 Nov–Dec;59(6):34–7 (Eng. Abstr.) **(Rus)**

[Results of the use of perftoran for anti–ischemic protection of renal transplant] Zakharov VV. **Klin Khir** 1997;(1):24–6 (Eng. Abstr.) **(Rus)**

TOXICITY

Preclinical studies of MRX–115: safety evaluations of a myocardial perfusion agent. Fritz T, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S185–7

Effects of perfluorochemical–based artificial blood compounds in discordant xenotransplantation. Wada S, et al. **Artif Organs** 1996 Aug;20(8):930–5

Toxicant–induced alterations in two–dimensional electrophoretic patterns of hepatic and renal stress proteins. Witzmann FA, et al. **Electrophoresis** 1996 Jan;17(1):198–202

Experimental vitreous replacement with perfluorophenanthrene. Ratiglia R, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):59–63

Toxicological evaluation of 1,1,1,2,2–pentafluoroethane (HFC–125). Kawano T, et al. **Fundam Appl Toxicol** 1995 Dec;28(2):223–31

Oral N–acetylcysteine protects against perfluoroisobutene toxicity in rats. Lailey AF. **Hum Exp Toxicol** 1997 Apr; 16(4):212–6

Experimental tolerance to perfluorodecalin used in prolonged intraocular tamponade. Devin F, et al. **Ophthalmologica** 1995;209(6):306–14

Acute lung injury induced by a commercial leather conditioner. Hubbs AF, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):37–46

Fish oil–feeding prevents perfluorooctanoic acid–induced fatty liver in mice. Kudo N, et al. **Toxicol Appl Pharmacol** 1997 Aug;145(2):285–93

URINE

Gas chromatographic–mass spectrometric identification and quantitation of urinary phenols after derivatization with 4–carbethoxyhexafluorobutyryl chloride, a novel derivative. Dasgupta A, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):415–21

FLUOROCHLOROXACILLIN see **FLOXACILLIN**

FLUOROCHROMES see **FLUORESCENT DYES**

9–FLUOROCORTISOL see **FLUDROCORTISONE**

5–FLUOROCYTOSINE see **FLUCYTOSINE**

FLUORODEOXYURIDINE see **FLOXURIDINE**

FLUORODEOXYURIDYLATE

ANALOGS & DERIVATIVES

Inhibitory effects of fluorinated pyrimidines, 5'–DFUR, UFT and T–506, in a model of hepatic metastasis of mouse colon 26 adenocarcinoma–assessment of inhibitory activity and adverse reactions at the maximum tolerated dose. Tazawa K, et al. **Clin Exp Metastasis** 1997 May;15(3):266–71

CHEMISTRY

Use of strain in a stereospecific catalytic mechanism: crystal structures of Escherichia coli thymidylate synthase bound to FdUMP and methylenetetrahydrofolate. Hyatt DC, et al. **Biochemistry** 1997 Apr 15;36(15):4585–94

METABOLISM

Functional effects of amino acid substitutions at residue 33 of human thymidylate synthase. Reilly RT, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):338–43

PHARMACOLOGY

Histopathological response to preoperative chemotherapy including 5–fluorouracil additionally assessed by immunocytochemical and pharmacologic parameters in patients with advanced gastric cancer. Nakano H, et al. **Surg Today** 1996;26(7):482–8

FLUORODEXAMETHASONE see **FLUMETHASONE**

FLUORODINITROBENZENE see **DINITROFLUOROBENZENE**

FLUOROFUR see **TEGAFUR**

FLUOROIMMUNOASSAY

Comparison of immunofluorometry and immunohistochemistry for the detection of p53 protein in lung cancer specimens. Levesque MA, et al. **Am J Clin Pathol** 1997 Mar;107(3):308–16

Time–resolved, in vivo studies of mitotic spindle formation and nuclear lamina breakdown in Drosophila early embryos. Paddy MR, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):591–607

The use of peroxidase–mediated deposition of biotin–tyramide in combination with time–resolved fluorescence imaging of europium chelate label in immunohistochemistry and in situ hybridization. de Haas RR, et al. **J Histochem Cytochem** 1996 Oct;44(10):1091–9

Detection of Chlamydia trachomatis in genitourinary tract specimens using an automated enzyme–linked fluorescent immunoassay. Gun–Munro J, et al. **Sex Transm Dis** 1996 Mar–Apr;23(2):115–9

INSTRUMENTATION

Evaluation of a time–resolved fluorescence microscope using a phosphorescent Pt–porphine model system. Hennink EJ, et al. **Cytometry** 1996 Aug 1;24(4):312–20

METHODS

Determination of 14,15–epoxyeicosatrienoic acid and 14,15–dihydroxyeicosatrienoic acid by fluoroimmunoassay. Nithipatikom K, et al. **Anal Biochem** 1997 Mar 15; 246(2):253–9

Study of a lanthanide fluorescence system with a coupled reaction based on hemin catalysis. Zheng XY, et al. **Analyst** 1997 May;122(5):455–8

Assay development for a portable fiberoptic biosensor. Anderson GP, et al. **ASAIO J** 1996 Nov–Dec;42(6):942–6

Effectiveness of protein A for antibody immobilization for a fiber optic biosensor. Anderson GP, et al. **Biosens Bioelectron** 1997;12(4):329–36

A specific and highly sensitive time–resolved fluoroimmunoassay for human proinsulin. Dalbosco IS, et al. **Braz J Med Biol Res** 1996 Feb;29(2):193–9

Comparison of three immunoassay kits for serum thyroglobulin in patients with thyroid cancer. Dai J, et al. **Clin Biochem** 1996 Oct;29(5):461–5

Time–resolved fluoroimmunoassay of terfenadine in human serum. Eskola JU, et al. **Clin Biochem** 1997 Apr;30(3):231–4

Immunofluorometric assay of pepsinogen C and preliminary clinical applications. Diamandis EP, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1365–71

Immunofluorometric assay of prostaglandin D synthase in human tissue extracts and fluids. Melegos DN, et al. **Clin Chem** 1996 Dec;42(12):1984–91

Two–site immunofluorometric assay of intact salmon calcitonin with improved sensitivity. Rong H, et al. **Clin Chem** 1997 Jan;43(1):71–5

Analyte and label binding assay read by flow cytometry. Utgaard JO, et al. **Clin Chem** 1996 Oct;42(10):1702–8

Comparison between two automated systems to determine specific IgE: CAP and ELItest. Brunnée T, et al. **Clin Exp Allergy** 1996 Dec;26(12):1420–7

Evaluation of a time–resolved fluorescence microscope using a phosphorescent Pt–porphine model system. Hennink EJ, et al. **Cytometry** 1996 Aug 1;24(4):312–20

VIDAS enzyme–linked fluorescent immunoassay for detection of Salmonella in foods: collaborative study. Curiale MS, et al. **J AOAC Int** 1997 May–Jun;80(3):491–504

Platinum porphyrins as phosphorescent label for time–resolved microscopy. de Haas RR, et al. **J Histochem Cytochem** 1997 Sep;45(9):1279–92

Development of a specific fluoroimmunoassay for ovine albumin. Hreczuk–Hirst DH, et al. **J Immunoassay** 1997 Aug;18(3):203–13

Dual–label time–resolved immunofluorometric assay for simultaneous determination of pregnancy–associated plasma protein A and free beta–subunit of human chorionic gonadotrophin. Qin Q, et al. **J Immunol Methods** 1997 Jul 14;205(2):169–75

Time–resolved fluoroimmunoassay for pituitary adenylate cyclase activating polypeptide 27 (PACAP27) using europium (III) ion chelate labeled streptavidin–biotin complex. Ito K, et al. **J Pharm Biomed Anal** 1997 Jun; 15(9–10):1489–95

Sensitive immunoassay and in vitro bioassay demonstrate constant bioactive/immunoreactive ratio of luteinizing hormone in healthy boys during the pubertal maturation. Huhtaniemi IT, et al. **Pediatr Res** 1996 Jan;39(1):180–4

[Evaluation of CK–MB determination technique by immuno–enzymolfluorometry with Vidas (bioMérieux)] Ayed SB, et al. **Ann Biol Clin (Paris)** 1996;54(3–4):145–9 (Eng. Abstr.) **(Fre)**

FLUOROMETHOLONE

PHARMACOLOGY

Effect of diclofenac, ketorolac, and fluorometholone on arachidonic acid metabolites following excimer laser corneal surgery. Phillips AF, et al. **Arch Ophthalmol** 1996 Dec;114(12):1495–8

THERAPEUTIC USE

Effect of topical anti–inflammatory treatment on the outcome of laser trabeculoplasty [letter; comment] Hollö G. **Am J Ophthalmol** 1997 Apr;123(4):570–1. Comment on: Am J Ophthalmol 1996 Sep;122(3):349–54.

Keratitis associated with presumed polyendocrinopathy syndrome: treatment with fluorometholone and diclofenac sodium. Des Marchais B, et al. **Can J Ophthalmol** 1995 Dec;30(7):380–4

A comparison of two ophthalmic steroid–antibiotic combinations after cataract surgery. van Endt JJ, et al. **Eur J Ophthalmol** 1997 Apr–Jun;7(2):144–8

Effects of topical corticosteroids after photorefractive keratectomy. Chatterjee A, et al. **J Refract Surg** 1997 Aug; 13(5 Suppl):S454–5

FLUOROMETRY

Di–fluoresceinthiocarbamyl–insulin: a fluorescent substrate for the assay of protein disulfide oxidoreductase activity. Heuck AP, et al. **Anal Biochem** 1997 May 15;248(1):94–101

Fluorometric detection of biological S–nitrosothiols. Park JK, et al. **Anal Biochem** 1997 Jun 15;249(1):61–6

Quantitative RT–PCR combined with time–resolved fluorometry for determination of BCR–ABL mRNA. Bortolin S, et al. **Clin Chem** 1996 Dec;42(12):1924–9

Evaluation of fluorometric and zymographic methods as activity assays for stromelysins and gelatinases [published erratum appears in Clin Exp Metastasis 1997 May;15(3):339–40] Quesada AR, et al. **Clin Exp Metastasis** 1997 Jan;15(1):26–32

Continuous arterial blood gas monitoring: a technology in transition [editorial; comment] Larson CP Jr. **Intensive Care Med** 1996 Nov;22(11):1141–3. Comment on: Intensive Care Med 1996 Nov;22(11):1162–8.

Fluorometry of the crystalline lens for correcting blue–on–yellow perimetry results. Teesalu P, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):697–703

Determination of thiocyanate anion by high–performance liquid chromatography with fluorimetric detection. Chen SH, et al. **J Anal Toxicol** 1996 Jan–Feb;20(1):38–42

Determination of selenium in feeds and premixes: collaborative study. Palmer IS, et al. **J AOAC Int** 1997 May–Jun;80(3):469–80

Fluorometric study of the isoform difference of mammalian metallothionein. Tie JK, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):245–53

A fluorogenic substrate for beta–glucuronidase: applications in fluorometric, polyacrylamide gel and histochemical assays. Zhou M, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):197–205

Chelation–enhanced fluorescence chemosensing of Pb(II), an inherently quenching metal ion. Chae MY, et al. **J Mol Recognit** 1996 Jul–Aug;9(4):297–303

Identification of a new diarrhoetic toxin in shellfish using liquid chromatography with fluorimetric and mass spectrometric detection. James KJ, et al. **Toxicon** 1997 Jun; 35(6):973–8

INSTRUMENTATION

Multiparameter immunophenotypic analysis of fine needle aspiration biopsies and other hematologic specimens by laser scanning cytometry. Clatch RJ, et al. **Acta Cytol** 1997 Jan–Feb;41(1):109–22

Laser scanning cytometry in pathology of solid tumors. A review. Gorczyca W, et al. **Acta Cytol** 1997 Jan–Feb;

41(1):98–108 (74 ref.)
Slide-based laser scanning cytometry. Kamentsky LA, et al. **Acta Cytol** 1997 Jan–Feb;41(1):123–43 (34 ref.)
The LightCycler: a microvolume multisample fluorimeter with rapid temperature control. Wittwer CT, et al. **Biotechniques** 1997 Jan;22(1):176–81

METHODS

Microtiter plate assays for inhibition of human, drug–metabolizing cytochromes P450. Crespi CL, et al. **Anal Biochem** 1997 May 15;248(1):188–90
A fluorometric assay for measurement of mono–ADP–ribosyltransferase activity. Klebl BM, et al. **Anal Biochem** 1996 Aug 1;239(2):145–52
Potential misevaluation of the ground–state dissociation constant from fluorimetric titrations: application to the ion indicators SBFI, PBFI, and fura–2. Kowalczyk A, et al. **Anal Biochem** 1997 Feb 1;245(1):28–37
Direct determination of dipyridamole in serum. Murillo Pulgarin JA, et al. **Anal Biochem** 1997 Feb 1;245(1):8–16
A time–resolved immunofluorometric method for the measurement of sialyl Lewis x–synthesizing alpha1,3–fucosyltransferase activity. Räbinä J, et al. **Anal Biochem** 1997 Mar 1;246(1):71–8
A microtiter–based fluorescence assay for (1,3)–beta–glucan synthases. Shedletzky E, et al. **Anal Biochem** 1997 Jun 15; 249(1):88–93
SYPRO orange and SYPRO red protein gel stains: one–step fluorescent staining of denaturing gels for detection of nanogram levels of protein. Steinberg TH, et al. **Anal Biochem** 1996 Aug 1;239(2):223–37
Applications of SYPRO orange and SYPRO red protein gel stains. Steinberg TH, et al. **Anal Biochem** 1996 Aug 1; 239(2):238–45
A fluorescent microplate assay for diarrheic shellfish toxins. Vieytes MR, et al. **Anal Biochem** 1997 Jun 1;248(2):258–64
Time–resolved fluorescence detection of oligonucleotide hybridization on a single microparticle: covalent immobilization of oligonucleotides and quantitation of a model system. Hakala H, et al. **Bioconjug Chem** 1997 Mar–Apr;8(2):232–7
Determination of the extent of protein biotinylation by fluorescence binding assay. Rao SV, et al. **Bioconjug Chem** 1997 Jan–Feb;8(1):94–8
Real–time fluorescence measurement of cell–free endosome fusion: regulation by second messengers. Emans N, et al. **Biophys J** 1996 Jul;71(1):487–94
A new fluorometric assay for determination of osteoblastic proliferation: effects of glucocorticoids and insulin–like growth factor–I. Jonsson KB, et al. **Calcif Tissue Int** 1997 Jan;60(1):30–6
Simple triple–label detection of seven cystic fibrosis mutations by time–resolved fluorometry. Heinonen P, et al. **Clin Chem** 1997 Jul;43(7):1142–50
Evaluation of multicomponent fluorimetric analytical data by use of partial least–squares calibration. Application to the determination of codeine and ephedrine in urine. Bautista Jiménez RD, et al. **Clin Chim Acta** 1996 May 30; 249(1–2):21–36
The use of calcein acetomethylester (AM)–labelled polymorphonuclear cells in a polycarbonate filter chemotaxis assay. De Gendt CM, et al. **Clin Chim Acta** 1996 May 30;249(1–2):189–95
A new fluorometric method for measuring the action of C apolipoproteins on milk lipoprotein lipase. Lambert DA, et al. **Clin Chim Acta** 1997 Aug 8;264(1):75–90
A simple, rapid immunometric assay for determination of functional and growth hormone–occupied growth hormone–binding protein in human serum. Fisker S, et al. **Eur J Clin Invest** 1996 Sep;26(9):779–85
Age dependency of nanosecond fluorescence characteristics in human arteries. Araki T, et al. **Front Med Biol Eng** 1996; 7(4):265–73
Methods for integrating fluorimetry in the study of hearing organ structure and function. Flock A, et al. **Hear Res** 1997 Apr;106(1–2):29–38
Flow–injection fluorimetric determination of penicillamine and tiopronin in pharmaceutical preparations. Pérez Ruiz T, et al. **J Pharm Biomed Anal** 1996 Oct;15(1):33–8
Synthesis of a new tetradentate beta–diketonate–europium chelate and its application for time–resolved fluorimetry of albumin. Yuan J, et al. **J Pharm Biomed Anal** 1997 Jun; 15(9–10):1397–403
Large–scale purification of Aplysia ADP–ribosylcyclase and measurement of its activity by fluorimetric assay. Lee HC, et al. **Methods Enzymol** 1997;280:331–40
Rapid, simple and sensitive microassay for skeletal muscle homogenates in the functional assessment of the Ca–release channel of sarcoplasmic reticulum: application to diagnosis of susceptibility to malignant hyperthermia. O'Brien PJ, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):61–72
Methods and reagents. Is your fluorometer on the blink? Hengen PN. **Trends Biochem Sci** 1996 Aug;21(8):317–8
[A sensitive fluorometric assay for dihydrodiol dehydrogenase] Miyabe Y, et al. **Yakugaku Zasshi** 1997 Mar;117(3):167–77 (Eng. Abstr.) **(Jpn)**
[Evaluation of a detection method for determination of aflatoxins in peanuts using immunoaffinity chromatography coupled fluorimetry detection] Postupolski J, et al. **Rocz Panstw Zakl Hig** 1996;47(3):277–83 (Eng. Abstr.) **(Pol)**

P-FLUOROPHENYLALANINE

DIAGNOSTIC USE

Early delineation of cerebral glioma using amino acid positron tracers. Mineura K, et al. **Comput Med Imaging Graph** 1997 Jan–Feb;21(1):63–6

FLUOROPHOTOMETRY

Vitreous fluorophotometry and changes in blood–retinal barrier permeability induced by bendazac lysine. Nuzzi G, et al. **Acta Ophthalmol Scand** 1997 Feb;75(1):41–3
A fluorophotometric study of corneal endothelium after trabeculectomy using different concentrations of Mitomycin–C. Szymanski A, et al. **Int Ophthalmol** 1996–97; 20(1–3):95–9
Reproducibility of vitreous fluorophotometry in patients with type 1 diabetes mellitus. Jager J, et al. **Ophthalmologica** 1997;211(4):209–13

METHODS

Comparative study of three methods of evaluation of the corneal endothelium in pseudophakic patients: fluorophotometry, specular microscopy and pachymetry. Beneyto P, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Oct;234(10):623–7
Determination of the pseudofacility by fluorophotometry in the human eye. Beneyto Martin P, et al. **Int Ophthalmol** 1995–96;19(4):219–23
Noninvasive monitoring of intraocular pharmacokinetics of daunorubicin using fluorophotometry. Kizhakkethara I, et al. **Int Ophthalmol** 1995–96;19(6):363–7
Fluorophotometry with a small animal adapter. Ishiko S, et al. **Jpn J Ophthalmol** 1996;40(3):310–6

FLUOROQUINOLONE ANTI–INFECTIVE AGENTS see **ANTI–INFECTIVE AGENTS, FLUOROQUINOLONE**

FLUOROSCOPY

Abdominal metastases of infiltrating lobular breast carcinoma: CT and fluoroscopic imaging findings. Kidney DD, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):156–9
Radiation dose at small intestinal biopsies in children: results of a national study. Persliden J, et al. **Acta Paediatr** 1996 Sep;85(9):1042–6
Association of midoesophageal diverticula with oesophageal motor disorders. Videofluoroscopy and manometry. Schima W, et al. **Acta Radiol** 1997 Jan;38(1):108–14
Precise placement of sphenoidal electrodes via fluoroscopic guidance. Fenton DS, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):776–8
Percutaneous nephrostomy: placement under CT and fluoroscopy guidance. Barbaric ZL, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):151–5
Fluoroscopic diagnosis of complications after Nissen antireflux fundoplication in children. Trinh TD, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1023–8
Reduced radiation during cardiac catheterization of infants using acquisition zoom technology. Ross RD, et al. **Am J Cardiol** 1997 Mar 1;79(5):691–3
Airway fluoroscopic diagnosis of vocal cord dysfunction syndrome. Nastasi KJ, et al. **Ann Allergy Asthma Immunol** 1997 Jun;78(6):586–8
Is there more radiation using a two–monitor system? [letter] Ord MD. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):379
Method for image equalization of ROI fluoroscopic images using mask localization, selection and subtraction. Fletcher LM, et al. **Comput Med Imaging Graph** 1996 Mar–Apr; 20(2):89–103
Videofluoroscopic evaluation of aspiration with visual examination of the gag reflex and velar movement. Leder SB. **Dysphagia** 1997 Winter;12(1):21–3
Comparison of film–screen combination and digital fluorography in gastrointestinal barium examinations in a clinical setting. Barkhof F, et al. **Eur J Radiol** 1996 Jun; 22(3):232–5
Perception of detail and greyscale range in X–ray fluoroscopy images captured with a personal computer and frame–grabber. Okkalides D. **Eur J Radiol** 1996 Sep; 23(2):149–58
Upper airway size and collapsibility in snorers: evaluation with digital fluoroscopy. Tsushima Y, et al. **Eur Respir J** 1996 Aug;9(8):1611–8
Phantom–derived estimation of effective dose equivalent from X rays with and without a lead apron. Mateya CF, et al. **Health Phys** 1997 Jun;72(6):842–7
A versatile three–iodine molecular building block leading to new radiopaque polymeric biomaterials. Benzina A, et al. **J Biomed Mater Res** 1996 Nov;32(3):459–66
Experience with EDAP LT02 extracorporeal shockwave lithotripsy in 1363 patients: comparison with results of LT01 SWL in 1586 patients. Kim SC, et al. **J Endourol** 1997 Apr;11(2):103–11
Fluoroscopy of programmable cerebrospinal fluid shunt valve settings. Technical illustration. Kaufman BA, et al. **J Neurosurg** 1997 Apr;86(4):735
Fluoroscopy–assisted intubation of a child with an unstable subluxation of C1/C2. Morell RC, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):25–8
Risks of radiation exposure to orthopaedic surgeons. O'Rourke PJ, et al. **J R Coll Surg Edinb** 1996 Feb; 41(1):40–3
Interjudge agreement in videofluoroscopic studies of swallowing. Wilcox F, et al. **J Speech Hear Res** 1996 Feb; 39(1):144–52
Single plane fluoroscopic guided biopsy of thoracic lesions. Hussain S. **JPMA J Pak Med Assoc** 1996 Apr;46(4):73–7
Measured scattered x–ray energy spectra for simulated irradiation geometries in diagnostic radiology. Marshall NW, et al. **Med Phys** 1996 Jul;23(7):1271–6
Role of the modified barium swallow in management of patients with dysphagia. Logemann JA. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):335–8
Miniature C–arm imaging: an in vitro study of detecting foreign bodies in the emergency department. Cohen DM, et al. **Pediatr Emerg Care** 1997 Aug;13(4):247–9
Intraosseous needle: use of the miniature C–arm imaging device to confirm placement. Garcia CT, et al. **Pediatr Emerg Care** 1996 Apr;12(2):94–7
Transrectal drainage of deep pelvic abscesses in children using a combined transrectal sonographic and fluoroscopic guidance. Chung T, et al. **Pediatr Radiol** 1996 Dec; 26(12):874–8
Videofluoroscopic assessment in children with severe cerebral palsy presenting with dysphagia. Wright RE, et al. **Pediatr Radiol** 1996 Oct;26(10):720–2
Radiation dosimetry at CT fluoroscopy: physician's hand dose and development of needle holders. Kato R, et al. **Radiology** 1996 Nov;201(2):576–8
Fluoroscopically triggered contrast–enhanced three–dimensional MR angiography with elliptical centric view order: application to the renal arteries. Wilman AH, et al. **Radiology** 1997 Oct;205(1):137–46
[The intracavitary administration of contrast medium in the aftercare of complicated thoracic empyema with long–term drainage: x–ray fluoroscopy compared to computed tomography] Düx M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):37–45 (Eng. Abstr.) **(Ger)**
[Spiral CT for the detection of coronary artery calcifications and the prognosis of coronary heart disease—a comparison with fluoroscopy and coronary angiography] Heussel CP, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):16–23 (Eng. Abstr.) **(Ger)**
[Current role of fluorography in early detection of tuberculosis in adults] Iukelis LI. **Probl Tuberk** 1996; (3):32–4 **(Rus)**
[Videofluoroscopy of the pharyngoesophageal segment after total phonatory laryngectomy] Artazkoz del Toro JJ, et al. **Acta Otorrinolaringol Esp** 1997 Jan–Feb;48(1):51–6 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Automatic filter placement device for region of interest (ROI) fluoroscopy. Kezerashvili M, et al. **Health Phys** 1997 Jan;72(1):141–6
Potential radiation hazard associated with the unprotective use of mini C–arm fluoroscopy systems [letter] Wilson CR. **Med Phys** 1997 Aug;24(8):1331
Acute radiation dermatitis following radiofrequency catheter ablation of atrioventricular nodal reentrant tachycardia. Rosenthal LS, et al. **Pacing Clin Electrophysiol** 1997 Jul; 20(7):1834–9
Radiation–induced skin injuries from fluoroscopy. Shope TB. **Radiographics** 1996 Sep;16(5):1195–9
Radiation risk to the urologist during endourologic procedures, and a new shield that reduces exposure. Giblin JG, et al. **Urology** 1996 Oct;48(4):624–7

INSTRUMENTATION

C–arm manipulation using a sterile disposable lamp handle. Shaw BA, et al. **Am J Orthop** 1997 Jul;26(7):507, 510
A contrast technique to improve sampling in cavitating lung lesions. Black JA, et al. **Australas Radiol** 1996 Feb;40(1):6–9
Rapid bedside coronary angiography with a portable fluoroscopic imaging system. Aliabadi D, et al. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):449–55
XiTec XiScan 1000 mini C–arm unit. **Health Devices** 1996 Nov;25(11):413–25
Interventional magnetic resonance. Initial clinical experience with a 1.5–tesla magnetic resonance system combined with c–arm fluoroscopy. Adam G, et al. **Invest Radiol** 1997 Apr; 32(4):191–7
Stereo fluoroscopy–assisted distal interlocking of intramedullary nails. Ohe T, et al. **J Orthop Trauma** 1997 May;11(4):300–3
Combined transrectal sonographic and fluoroscopic guidance for deep pelvic abscess drainage. Kastan DJ, et al. **J Ultrasound Med** 1996 Mar;15(3):235–9
Physical characteristics of a commercial electronic portal imaging device. Althof VG, et al. **Med Phys** 1996 Nov; 23(11):1845–55
Empirical investigation of the signal performance of a high–resolution, indirect detection, active matrix flat–panel imager (AMFPI) for fluoroscopic and radiographic operation. Antonuk LE, et al. **Med Phys** 1997 Jan; 24(1):51–70
Primary beam exposure outside the fluoroscopic field of view. Granger WE Jr, et al. **Med Phys** 1997 May; 24(5):703–7

FLUOROSCOPY

Feasibility of a large area x-ray sensitive vidicon for medical fluoroscopy: resolution and lag factors. Luhta R, et al. **Med Phys** 1997 May;24(5):621–31

Feasibility of a large area x-ray sensitive vidicon for medical fluoroscopy: signal and noise factors. Luhta R, et al. **Med Phys** 1997 May;24(5):609–20

[Initial experiences with pulsed fluoroscopy on a multifunctional fluoroscopic unit] Herrmann K, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):475–9 (Eng. Abstr.) **(Ger)**

[Radiation exposure in digital micturition cystourethrography in children. How much exposure by fluoroscopy?] Merkle EM, et al. **Urologe A** 1997 Mar;36(2):181–5 (Eng. Abstr.) **(Ger)**

[Development of real-time CT fluoroscopy] Katada K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1172–4 (Eng. Abstr.) **(Jpn)**

METHODS

Digital fluoroscopy before and after laser uvulopalatopharyngoplasty in obstructive sleep apnea. Importance of pharyngeal collapsibility and hyoid bone position. Tsushima Y, et al. **Acta Radiol** 1997 Mar; 38(2):214–21

Reduction of radiation dose in pediatric patients using pulsed fluoroscopy. Hernandez RJ, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1247–53

Fluoroscopic functional evaluation of bileaflet prostheses: effect of different intraoperative valve orientation. Montorsi P, et al. **Am J Card Imaging** 1996 Apr;10(2):101–7

Patient dose reduction by audit of grid usage in barium enemas. Seymour R. **Br J Radiol** 1997 May;70(833):489–91

Dose reduction in double contrast barium enema by use of low fluoroscopic current. Smiddy PF, et al. **Br J Radiol** 1996 Sep;69(825):852–4

Fluoroscopic evaluation of the painful total knee arthroplasty. Fehring TK, et al. **Clin Orthop** 1996 Oct; (331):226–33

Air contrast fluoroscopy as a diagnostic aid during colonoscopy. Dickey W, et al. **Endoscopy** 1996 Oct; 28(8):730

Simultaneous endoscopic and radiological examination of the colon [letter] Rabast U. **Endoscopy** 1997 May;29(4):330

Accurate measurement of three-dimensional knee replacement kinematics using single-plane fluoroscopy. Banks SA, et al. **IEEE Trans Biomed Eng** 1996 Jun; 43(6):638–49

Fluoroscopic-guided in vivo gastric mapping for assessment of gastric carcinoma. Makuch RS, et al. **Invest Radiol** 1997 Aug;32(8):496–9

Stereo fluoroscopy-assisted percutaneous needle puncture of the vertebral body. Nakamura K, et al. **J Spinal Disord** 1997 Apr;10(2):102–5

Automatic location of vertebrae in digitized videofluoroscopic images of the lumbar spine. Muggleton JM, et al. **Med Eng Phys** 1997 Jan;19(1):77–89

Effect of patient support pads on image quality and dose in fluoroscopy. Geiser WR, et al. **Med Phys** 1997 Mar; 24(3):377–82

Analysis of the temporal response of computed tomography fluoroscopy. Hsieh J. **Med Phys** 1997 May;24(5):665–75

Efficiency of low-contrast detail detectability in fluoroscopic imaging. Tapiovaara MJ. **Med Phys** 1997 May;24(5):655–64

Pulsed fluoroscopy detectability from interspersed adaptive forced-choice measurements. Xue P, et al. **Med Phys** 1996 Nov;23(11):1833–43

Automatic system for measuring dose-area product (DAP) in ROI fluoroscopy. Kezerashvili M, et al. **Phys Med Biol** 1997 Apr;42(4):613–23

Simultaneous electrical impedance tomography and videofluoroscopy in the assessment of swallowing. Hughes TA, et al. **Physiol Meas** 1996 May;17(2):109–19

[Videofluoroscopy in the study of the oral and pharyngeal phases of deglutition (editorial; comment)] Dantas RO. **Arq Gastroenterol** 1996 Jul-Sep;33(3):122–3. Comment on: Arq Gastroenterol 1996 Jul-Sep;33(3):124–31. **(Por)**

STANDARDS

Short communication: use of the output video signal for dynamic range, brightness control and image memory assessment in X-ray fluoroscopy. Okkalides D. **Br J Radiol** 1996 Sep;69(825):855–9

Quality assurance programme applied to mobile C-arm fluoroscopy systems. Tuohy B, et al. **Eur Radiol** 1997; 7(4):534–41

Effect of patient support pads on image quality and dose in fluoroscopy. Geiser WR, et al. **Med Phys** 1997 Mar; 24(3):377–82

Nationwide survey of fluoroscopy: radiation dose and image quality. Suleiman OH, et al. **Radiology** 1997 May; 203(2):471–6

UTILIZATION

Fluoroscopy. A valuable ally during difficult colonoscopy. Cirocco WC, et al. **Surg Endosc** 1996 Nov;10(11):1080–4

VETERINARY

Characterization of anatomic communications among the antebrachiocarpal, middle carpal, and carpometacarpal joints in cattle, using intra-articular latex, positive-contrast arthrography, and fluoroscopy. Desrochers A, et al. **Am J Vet Res** 1997 Jan;58(1):7–10

FLUOROSIS, DENTAL

DIAGNOSIS

Amelogenesis imperfecta with enamel opacities and taurodontism: an alternative diagnosis for 'idiopathic dental fluorosis'. Winter GB. **Br Dent J** 1996 Sep 7;181(5):167–72

DRUG THERAPY

Reversal of fluorosis in children. Gupta SK, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):513–9

EPIDEMIOLOGY

Dental erosion, soft-drink intake, and oral health in young Saudi men, and the development of a system for assessing erosive anterior tooth wear. Johansson AK, et al. **Acta Odontol Scand** 1996 Dec;54(6):369–78

Dental caries, fluorosis and the cosmetic implications of different TF scores in 14-year-old adolescents. Hawley GM, et al. **Community Dent Health** 1996 Dec;13(4):189–92

Developmental enamel defects and extrinsic tooth stain in Libyan schoolchildren. Ellwood RP, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):419–20

Prevalence of dental fluorosis in children in Singapore. Lo GL, et al. **Community Dent Oral Epidemiol** 1996 Feb; 24(1):25–7

Caries experience and fluorosis prevalence in Chilean children from different socio-economic status. Villa AE, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):225–7

The relationship of fluorosis and brick tea drinking in Chinese Tibetans. Cao J, et al. **Environ Health Perspect** 1996 Dec; 104(12):1340–3

Endemic fluorosis with genu valgum syndrome in a village of district Mandla, Madhya Pradesh. Chakma T, et al. **Indian Pediatr** 1997 Mar;34(3):232–6

Drinking water fluoride levels, dental fluorosis, and caries experience in Brazil. Cortes DF, et al. **J Public Health Dent** 1996 Summer;56(4):226–8

Fluoride and silicon intake in normal and endemic fluorotic areas. Anasuya A, et al. **J Trace Elem Med Biol** 1996 Sep; 10(3):149–55

Recommendations for the appropriate use of fluoride products. Tennessee Department of Health. Gillcrist JA. **Tenn Med** 1997 Jan;90(1):27–8

Endemic fluorosis in Guizhou Province, China [letter] Dasheng L, et al. **World Health Forum** 1996;17(2):173–4

ETIOLOGY

The relationship between reported toothpaste usage in infancy and fluorosis of permanent incisors. Rock WP, et al. **Br Dent J** 1997 Sep 13;183(5):165–70

Effects of fluoride level in drinking water, nutritional status, and socio-economic status on the prevalence of developmental defects of dental enamel in permanent teeth in Saudi 14-year-old boys. Rugg-Gunn AJ, et al. **Caries Res** 1997;31(4):259–67

Determinants and mechanisms of enamel fluorosis. Whitford GM. **Ciba Found Symp** 1997;205:226–41; discussion 241–5 (60 ref.)

Dental fluorosis and the use of a high fluoride-containing trona tenderizer (magadi). Mabelya L, et al. **Community Dent Oral Epidemiol** 1997 Apr;25(2):170–6

Fluoride-induced lesions in the teeth of the short-tailed field vole (Microtus agrestis): a description of the dental pathology. Boulton IC, et al. **J Morphol** 1997 May; 232(2):155–67

[Fluorine and sciences] Waldbott GL. **Aliment Vie** 1969; 57(7–9):207–16 (36 ref.) **(Fre)**

HISTORY

Centenary year of scientific papers in the British Dental Journal. Murray J. **Br Dent J** 1996 Mar 9;180(5):191–2

METABOLISM

Determinants and mechanisms of enamel fluorosis. Whitford GM. **Ciba Found Symp** 1997;205:226–41; discussion 241–5 (60 ref.)

The protein composition of normal and developmentally defective enamel. Wright JT, et al. **Ciba Found Symp** 1997; 205:85–99; discussion 99–106

Modification of the proteoglycans of rat incisor dentin-predentin during in vivo fluorosis. Hall RC, et al. **Eur J Oral Sci** 1996 Jun;104(3):285–91

Protein characterization of fluorosed human enamel. Wright JT, et al. **J Dent Res** 1996 Dec;75(12):1936–41

PATHOLOGY

Two types of intraoral distribution of fluorotic enamel. van Palenstein Helderman WH, et al. **Community Dent Oral Epidemiol** 1997 Jun;25(3):251–5

PHYSIOPATHOLOGY

[General pathology of trace element deficiency] Zhavoronkov AA, et al. **Arkh Patol** 1997 Mar-Apr; 59(2):8–11 (24 ref.) (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Fluoride content of drinking-water and beverages in Jordan [letter] Hattab FN, et al. **World Health Forum** 1997; 18(1):69–70

THERAPY

Examination of esthetic improvement and surface alteration following microabrasion in fluorotic human incisors in vivo [see comments] Train TE, et al. **Pediatr Dent** 1996 Sep-Oct; 18(5):353–62. Comment in: Pediatr Dent 1997 May-Jun;19(4):242–5.

VETERINARY

Fluoride exposure in cervids inhabiting areas adjacent to aluminum smelters in Norway. II. Fluorosis. Vikøren T, et al. **J Wildl Dis** 1996 Apr;32(2):181–9

FLUOROURACIL

Effect of ethyldeoxyuridine on 5-fluorouracil-induced neutropenia. Megyeri A, et al. **Acta Physiol Hung** 1996; 84(3):309–10

A report of infusional 5-fluorouracil and subcutaneous alpha-2A-interferon in the treatment of advanced colorectal carcinoma. Koo WH, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):210–4

5-Fluorouracil continuous infusion in metastatic colorectal cancer. Tan EH, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):748–51

Low-dose continuous intravenous infusion of 5-fluorouracil for metastatic breast cancer [see comments] Regazzoni S, et al. **Ann Oncol** 1996 Oct;7(8):807–13. Comment in: Ann Oncol 1996 Oct;7(8):771.

Continuous infusional 5-fluorouracil in breast cancer or the revival of an old drug? [editorial; comment] Smith IE. **Ann Oncol** 1996 Oct;7(8):771–2 (13 ref.). Comment on: Ann Oncol 1996 Oct;7(8):807–13.

Host conditioning with 5-fluorouracil and kit-ligand to provide for long-term bone marrow engraftment. van Os R, et al. **Blood** 1997 Apr 1;89(7):2376–83

Doxifluridine in colorectal cancer patients resistant to 5-fluorouracil (5-FU) containing regimens. Bajetta E, et al. **Eur J Cancer** 1997 Apr;33(4):687–90

"Stem cell candidates" purified by liquid culture in the presence of Steel factor, IL-3, and 5FU are strictly stroma-dependent and have myeloid, lymphoid, and megakaryocytic potential. Bertolini F, et al. **Exp Hematol** 1997 Apr;25(4):350–6

Modulation of 5-FU and its related compounds. Taguchi T. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:195–205 (40 ref.)

ADMINISTRATION & DOSAGE

Phase II study of cisplatin, 5-fluorouracil, and leucovorin in inoperable squamous cell carcinoma of the esophagus. ONCOPAZ Cooperative Group, Spain. Feliu J, et al. **Am J Clin Oncol** 1996 Dec;19(6):577–80

Phase I-II study of combined 5-fluorouracil and cisplatin chemotherapy and altered fractionation radiotherapy for advanced squamous cell carcinoma of the cervix. Fishman A, et al. **Am J Clin Oncol** 1997 Aug;20(4):342–7

Continuous-infusion 5-fluorouracil and cisplatin for advanced/recurrent transitional cell cancer of the bladder: a Southwest Oncology Group trial. Kish JA, et al. **Am J Clin Oncol** 1997 Aug;20(4):327–30

A phase II trial of 5-fluorouracil and high-dose leucovorin in patients with recurrent squamous cell carcinoma of the cervix: a Gynecologic Oncology Group study. Look KY, et al. **Am J Clin Oncol** 1996 Oct;19(5):439–41

Retrospective comparative analysis of 5FU + low-dose folinic acid vs. 5FU + high-dose folinic acid in the treatment of metastatic colorectal cancer. The Ottawa experience. Maroun JA, et al. **Am J Clin Oncol** 1997 Aug; 20(4):387–92

Sequential chemotherapy and radiotherapy for squamous cell esophageal carcinoma. Sharma D, et al. **Am J Clin Oncol** 1997 Apr;20(2):151–3

Phase II trial of prolonged continuous infusion of 5-fluorouracil and interferon-alpha in patients with advanced pancreatic cancer. Eastern Cooperative Oncology Group Protocol 3292. Sparano JA, et al. **Am J Clin Oncol** 1996 Dec;19(6):546–51

Five-year follow-up of the Fluorouracil Filtering Surgery Study [letter; comment] Van Buskirk EM. **Am J Ophthalmol** 1996 Nov;122(5):751–2. Comment on: Am J Ophthalmol 1996 Apr;121(4):349–66.

Infusion pumps for systemic and intra-arterial chemotherapy of colorectal liver metastases. Howell JD, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):257–8

A phase II study of oral fluorouracil for gastrointestinal cancer. Cartei F, et al. **Anticancer Drugs** 1996 Jan; 7(1):48–53

Selective delivery of 5-fluorouracil (5-FU) to i.p. tissues using 5-FU microspheres in rats. Hagiwara A, et al. **Anticancer Drugs** 1997 Feb;8(2):182–8

Weekly chronomodulated 48 h infusion of high-dose 5-fluorouracil modulated by methotrexate and (6S)-leucovorin in advanced colorectal cancer: a phase IB study. Punt CJ, et al. **Anticancer Drugs** 1997 Jun;8(5):454–8

Thymic carcinoma with autoimmune syndrome: successful

treatment with weekly infusional high-dose 5-fluorouracil and leucovorin. Hsu CH, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1331-4

Advanced colorectal cancer, refractory to infusional fluorouracil treatment: efficacy of second line fluorouracil in combination with a different biochemical modulation. van Halteren HK, et al. **Anticancer Res** 1997 Jul-Aug; 17(4A):2715-9

Intralesional fluorouracil/epinephrine injectable gel for treatment of condylomata acuminata. A phase 3 clinical study. Swinehart JM, et al. **Arch Dermatol** 1997 Jan; 133(1):67-73

Impact of schedule on leucovorin potentiation of fluorouracil antitumor activity in dietary folic acid deplete mice. Raghunathan K, et al. **Biochem Pharmacol** 1997 Apr 25; 53(8):1197-202

5-FU loaded pHEMA drainage implants for glaucoma-filtering surgery: device design and in vitro release kinetics. Gökce M, et al. **Biomaterials** 1996 May; 17(9):941-9

Transgenic mice overexpressing human c-mpl ligand exhibit chronic thrombocytosis and display enhanced recovery from 5-fluorouracil or antiplatelet serum treatment. Zhou W, et al. **Blood** 1997 Mar 1;89(5):1551-9

Prolonged intraperitoneal infusion of 5-fluorouracil using a novel carrier solution. Kerr DJ, et al. **Br J Cancer** 1996 Dec;74(12):2032-5

A randomised controlled trial evaluating a novel cytotoxic drug delivery system for the treatment of cervical intraepithelial neoplasia. Sidhu HK, et al. **Br J Obstet Gynaecol** 1997 Feb;104(2):145-9

Role of portal vein chemotherapy following failure of previous treatment for advanced colorectal hepatic metastases. Fenton-Lee D, et al. **Br J Surg** 1997 Feb; 84(2):205-6

Treatment of advanced adenocarcinomas of the exocrine pancreas and the gallbladder with 5-fluorouracil, high dose levofolinic acid and oral hydroxyurea on a weekly schedule. Results of a multicenter study of the Southern Italy Oncology Group (G.O.I.M.). Gebbia V, et al. **Cancer** 1996 Sep 15;78(6):1300-7

Regional versus systemic chemotherapy in the treatment of colorectal carcinoma metastatic to the liver. Is there a survival difference? Meta-analysis of the published literature. Harmantas A, et al. **Cancer** 1996 Oct 15; 78(8):1639-45

A comprehensive review of 5-fluorouracil and leucovorin in patients with metastatic colorectal carcinoma. Machover D. **Cancer** 1997 Oct 1;80(7):1179-87 (47 ref.)

Nocturnal 5-fluorouracil infusion to patients with breast cancer prior to surgery: appearance of 5-fluorouracil-induced AgNORs aggregation (FAA). Furuya Y, et al. **Cancer Lett** 1997 Jun 3;116(1):79-84

Enhanced antitumor activity of combination radioimmunotherapy (131I-labeled monoclonal antibody A33) with chemotherapy (fluorouracil). Tschmelitsch J, et al. **Cancer Res** 1997 Jun 1;57(11):2181-6

Treatment of peritoneal carcinomatosis from colon or appendiceal cancer with induction intraperitoneal chemotherapy. Sugarbaker PH. **Cancer Treat Res** 1996; 82:317-25

Intraperitoneal 5-fluorouracil and mitomycin C as adjuvants to resectable gastric cancer: a status report. Yu W. **Cancer Treat Res** 1996;81:177-83

Long-term efficacy and safety of Jessner's solution and 35% trichloroacetic acid vs 5% fluorouracil in the treatment of widespread facial actinic keratoses. Witheiler DD, et al. **Dermatol Surg** 1997 Mar;23(3):191-6

Final results of a phase III clinical trial on adjuvant intraportal infusion with heparin and 5-fluorouracil (5-FU) in resectable colon cancer (EORTC GITCCG 1983-1987). European Organization for Research and Treatment of Cancer. Gastrointestinal Tract Cancer Cooperative Group. Nitti D, et al. **Eur J Cancer** 1997 Jul;33(8):1209-15

Development of treatment for advanced colorectal cancer: infusional 5-FU and the role of new agents. Schmoll HJ. **Eur J Cancer** 1996;32A Suppl 5:S18-22 (30 ref.)

Chemotherapy for lymphatic metastatic gynecologic cancer via pelvic retroperitoneal cannulation: a preliminary report. Zeyi C, et al. **Gynecol Oncol** 1996 Dec;63(3):358-63

Palliative treatment with low-dose continuous infusion 5-fluorouracil in recurrent and/or metastatic undifferentiated nasopharyngeal carcinoma type. Fandi A, et al. **Head Neck** 1997 Jan;19(1):41-7

Influence of stage classification, tumor differentiation and mode of invasion against clinical and histopathological effects on low dose sequential methotrexate and 5-fluorouracil administration as neo-adjuvant chemotherapy for oral squamous cell carcinoma. Asaumi J. **In Vivo** 1997 Mar-Apr;11(2):147-51

Short-term results of initial trabeculectomy with intraoperative or postoperative 5-fluorouracil for primary glaucomas. Lamba PA, et al. **Indian J Ophthalmol** 1996 Sep;44(3):157-60

Results of intraoperative 5-fluorouracil in patients undergoing trabeculectomy--pilot trial. Shelat B, et al. **Indian J Ophthalmol** 1996 Jun;44(2):91-4

Primary resection and synchronous regional hepatic chemotherapy or cryotherapy for colorectal cancer with liver metastases. Dasappa V, et al. **Int J Colorectal Dis** 1996;11(1):38-41

Hypofractionated radiotherapy with concurrent 5-fluorouracil radiosensitisation for recurrent or locally advanced colorectal cancer. A phase II study. Skarlatos J, et al. **Int J Colorectal Dis** 1996;11(5):206-10

Significance of the preoperative intravesical instillation of doxorubicin and the oral administration of 5-fluorouracil in preventing recurrence after a transurethral resection of superficial bladder cancer. Kyushu University Urological Oncology Group. Naito S, et al. **Int J Urol** 1997 Jul; 4(4):352-7

Intravitreal sustained release corticosteroid-5-fluoruracil conjugate in the treatment of experimental proliferative vitreoretinopathy. Berger AS, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2318-25

Chemotherapy for disseminated actinic keratoses with 5-fluorouracil and isotretinoin. Sander CA, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):236-8

5-fluorouracil iontophoretic therapy for Bowen's disease. Welch ML, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):956-8

A novel MMC-loaded pHEMA drainage device for the treatment of glaucoma: in vitro and in vivo studies. Kiremitçi-Gümüşderelioglu M, et al. **J Biomater Sci Polym Ed** 1996;7(10):857-69

Adjuvant therapy for resectable colorectal carcinoma with 5-fluorouracil portal vein infusion. Cremona F, et al. **J Chemother** 1997 Apr;9(2):140-1

Release of 5-fluorouracil from poly(acrylamide-co-monopropyl itaconate) hydrogels. Blanco MD, et al. **J Chromatogr B Biomed Appl** 1996 May 17;680(1-2):243-53

Tumoral-reduced folates and clinical resistance to fluorouracil-based treatment in head and neck cancer patients. Chéradame S, et al. **J Clin Oncol** 1997 Jul; 15(7):2604-10

Phase II randomized trial of gallium nitrate plus fluorouracil versus methotrexate, vinblastine, doxorubicin, and cisplatin in patients with advanced transitional-cell carcinoma. McCaffrey JA, et al. **J Clin Oncol** 1997 Jun;15(6):2449-55

Optimal duration of fluorouracil plus levamisole colon cancer surgical adjuvant therapy [letter] O'Connell MJ, et al. **J Clin Oncol** 1996 Oct;14(10):2887

Fluorouracil in colorectal cancer--a tale of two drugs: implications for biochemical modulation. Sobrero AF, et al. **J Clin Oncol** 1997 Jan;15(1):368-81 (163 ref.)

Results of intraoperative 5-fluorouracil or lower dose mitomycin-C administration on initial trabeculectomy surgery. Smith MF, et al. **J Glaucoma** 1997 Apr;6(2):104-10

Phase II study of recombinant alpha-interferon (rIFN alpha) and continuous-infusion 5-fluorouracil in metastatic breast cancer. Walters RS, et al. **J Immunother Emphasis Tumor Immunol** 1995 Oct; 18(3):185-7

The French experience with infusional 5-FU in gastric and pancreatic cancer. Ducreux M, et al. **J Infus Chemother** 1996 Fall;6(4):203-5

The dead end of 5-fluorouracil double modulation and promise of continuous infusion schedules in the treatment of metastatic colorectal cancer. Köhne CH, et al. **J Infus Chemother** 1996 Fall;6(4):206-10 (31 ref.)

Infusional 5-FU for advanced colorectal cancer. Lokich J. **J Infus Chemother** 1995 Fall;5(4):208-11 (24 ref.)

To modulate or not to modulate; to infuse or to bolus; the enigma of 5-fluorouracil is still alive after all these years [editorial] Lokich J, et al. **J Infus Chemother** 1996 Spring; 6(2):82-3

5-Fluorouracil-loaded chitosan microspheres: preparation and release characteristics. Akbuğa J, et al. **J Microencapsul** 1996 Mar-Apr;13(2):161-8

Appendiceal carcinoma: patterns of failure following surgery and implications for adjuvant therapy. Proulx GM, et al. **J Surg Oncol** 1997 Sep;66(1):51-3

Factors predictive of response and survival in patients with metastatic colorectal cancer in Taiwan. Wang WS, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):174-9

Randomised multicentre trial of chronotherapy with oxaliplatin, fluorouracil, and folinic acid in metastatic colorectal cancer. International Organization for Cancer Chronotherapy. Lévi F, et al. **Lancet** 1997 Sep 6; 350(9079):681-6

Effect of stereotactic implantation of biodegradable 5-fluorouracil-loaded microspheres in healthy and C6 glioma-bearing rats. Menei P, et al. **Neurosurgery** 1996 Jul; 39(1):117-23; discussion 123-4

Weekly 24-hour infusion of high-dose 5-fluorouracil and leucovorin in the treatment of advanced gastric cancers. An effective and low-toxic regimen for patients with poor general condition. Hsu CH, et al. **Oncology** 1997 Jul-Aug; 54(4):275-80

Mechanism-based improvement in the therapeutic selectivity of 5-FU prodrug alone and under conditions of metabolic modulation. Rustum YM. **Oncology** 1997;54 Suppl 1:7-11

Clinical application of biochemical modulation in cancer chemotherapy: biochemical modulation for 5-FU. Taguchi T. **Oncology** 1997;54 Suppl 1:12-8

A comparative, randomized trial of UFT and 5-fluorouracil in combination with cyclophosphamide and doxorubicin in the treatment of advanced breast cancer patients at The Philippines General Hospital. Villalon AH, et al. **Oncology** 1997;54 Suppl 1:2-6

Low-dose perioperative 5-fluorouracil in trabeculectomy. Hugkulstone CE, et al. **Ophthalmic Surg Lasers** 1996 Nov; 27(11):910-6

Sustained-release subconjunctival 5-fluorouracil. Smith TJ, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):763-7

5-fluorouracil in combined trabeculectomy and clear-cornea phacoemulsification with posterior chamber intraocular lens implantation. A one-year randomized, controlled clinical trial. Gandolfi SA, et al. **Ophthalmology** 1997 Feb; 104(2):181-6

Mitomycin C versus 5-fluorouracil in high-risk glaucoma filtering surgery. Extended follow-up. Katz GJ, et al. **Ophthalmology** 1995 Sep;102(9):1263-9

Single exposures to 5-fluorouracil: a possible mode of targeted therapy to reduce contractile scarring in the injured tendon. Khan U, et al. **Plast Reconstr Surg** 1997 Feb;99(2):465-71

Paclitaxel combined with weekly high-dose 5-fluorouracil/folinic acid and cisplatin in the treatment of advanced breast cancer. Klaassen U, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 11):32-7

New approaches to the management and treatment of malignant pericardial effusion. Tomkowski W, et al. **Support Care Cancer** 1997 Jan;5(1):64-6

A pilot study of adjuvant hepatic arterial infusion chemotherapy, associating 5-fluorouracil and leucovorin, after resection of colorectal cancer liver metastases. Porte H, et al. **Surg Oncol** 1995;4(6):317-22

Paradoxical clinical deterioration despite near-complete pathological response to neoadjuvant chemotherapy for locally advanced gastro-oesophageal adenocarcinoma. Windsor AC, et al. **Surg Oncol** 1995;4(5):277-9

Histopathological response to preoperative chemotherapy including 5-fluorouracil additionally assessed by immunocytochemical and pharmacologic parameters in patients with advanced gastric cancer. Nakano H, et al. **Surg Today** 1996;26(7):482-8

Intermittent continuous infusion of fluorouracil and low-dose oral leucovorin in pretreated breast cancer: a pilot study. Colleoni M, et al. **Tumori** 1997 May-Jun;83(3):665-8

The value of weekly high dose infusional 5-fluorouracil in the treatment of advanced colorectal cancer. Köhne CH, et al. **Tumori** 1997 Jan-Feb;83(1 Suppl):S56-60

Protracted infusional 5-fluorouracil for colorectal cancer. Lokich J. **Tumori** 1997 Jan-Feb;83(1 Suppl):S53-5 (13 ref.)

Prognostic value of the immunomonitoring of patients with renal cell carcinoma under therapy with IL-2/IFN-alpha-2 in combination with 5-FU. Göhring B, et al. **Urol Res** 1996;24(5):297-303

Enhancing effect of essential oils on the penetration of 5-fluorouracil through rat skin. Abdullah D, et al. **Yao Hsueh Hsueh Pao** 1996;31(3):214-21

[The influence on prognosis of intraoperative chemotherapy for adenocarcinoma of gastric cardia] Li Q, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):137-9 (Eng. Abstr.) **(Chi)**

[Preoperative intraluminal 5-FU osmosis chemotherapy as an adjuvant to radical resection for rectal cancer] Lu J, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):54-6 (Eng. Abstr.) **(Chi)**

[Feasability of the dose adjustment of continuous infusion administration over 120 hours of 5-fluorouracil associated with cisplatin] Coudert B, et al. **Bull Cancer** 1996 Oct; 83(10):847-52 (Eng. Abstr.) **(Fre)**

[Drug targeting with liposome encapsulated 5-FU. Pharmacokinetics of i.v. and locoregional therapy--an animal experiment study with VX-2 liver tumor] Berger G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:127-30 (Eng. Abstr.) **(Ger)**

[Concentration of intra-aortic 5-FU administration in hypoxia--an animal experiment study of abdominal stop-flow perfusion in the rabbit] Pohlen U, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:137-40 (Eng. Abstr.) **(Ger)**

[Filtering glaucoma operations. Can growth factor blockers replace antimetabolites?] Mietz H. **Ophthalmologe** 1997 Mar;94(3):242-7 (64 ref.) **(Ger)**

[Antiproliferative therapy with 5-fluorouracil in erbium:YAG laser sclerostomy ab externo] Schmidbauer JM, et al. **Ophthalmologe** 1996 Oct;93(5):569-75 (Eng. Abstr.) **(Ger)**

[Single dose intraoperative administration of 5-fluorouracil (5-FU) in trabeculectomy. Long-term results of a pilot study] Spiegel D, et al. **Ophthalmologe** 1996 Oct;93(5):561-6 (Eng. Abstr.) **(Ger)**

[Immunochemotherapy of metastatic renal cell carcinoma with interleukin 2, interferon-alpha and 5-fluorouracil] Hofmockel G, et al. **Urologe A** 1997 Jan;36(1):45-9 (Eng. Abstr.) **(Ger)**

[Adjuvant combined radiochemotherapy of rectum carcinoma with long-term 5-fluorouracil infusion] Fischbach W. **Z Gastroenterol** 1997 Mar;35(3):227-8 **(Ger)**

[Function and complications of diverse totally implantable systems for continuous intra-arterial infusion of FUdR in colorectal hepatic metastases] Civalleri D, et al. **G Chir** 1996 Jun-Jul;17(6-7):309-13 (Eng. Abstr.) **(Ita)**

[Study of anti-cancer drug delivery into the organs during resection of esophagus--an experimental study] Hamabe Y, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):115-7 **(Jpn)**

[Evaluation of prophylactic hepatic arterial infusion chemotherapy after hepatectomy for metastases from colorectal cancer--the second report] Hasuike Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1451-3 (Eng.

Abstr.) **(Jpn)**

[Preoperative adjuvant chemotherapy with oral anticancer agents for stomach cancer] Honda I, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1109–17 (Eng. Abstr.) **(Jpn)**

[Adjuvant therapies in combination with pancreatectomy for carcinoma of the pancreas] Ishikawa O, et al. **Gan To Kagaku Ryoho** 1996 Oct;23(12):1635–41 (34 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical study of home hepatic arterial infusion chemotherapy for liver metastasis from colorectal cancer] Sato K, et al. **Gan To Kagaku Ryoho** 1996 Dec;23 Suppl 3:252–5 (Eng. Abstr.) **(Jpn)**

[The preventive effect of weekly high-dose 5-FU infusion (WHF) after resection of hepatic metastasis from colorectal cancer] Tsuji Y, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1454–6 (Eng. Abstr.) **(Jpn)**

[The effect of intraportal chemotherapy in terms of administered dose of 5-FU] Yamamura T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1461–3 (Eng. Abstr.) **(Jpn)**

[Experimental study on CDDP, 5-FU concentrations of paraaortic and mesenteric lymph nodes after subphrenic infusion] Kawahara H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):789–96 (Eng. Abstr.) **(Jpn)**

[Adjuvant treatment in operable colonic and rectal cancer. A new possibility] Tveit KM. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2991–2 **(Nor)**

[Use of 5-fluorouracil shortly after trabeculectomy] Lewandowska-Furmanik M, et al. **Klin Oczna** 1996; 98(6):427–8 (Eng. Abstr.) **(Pol)**

[The combined treatment of locally disseminated stomach cancer with intra-arterial regional chemotherapy] Zyrianov BN, et al. **Khirurgiia (Mosk)** 1996;(6):13–6 (Eng. Abstr.) **(Rus)**

[Experimental use of a cytostatic and a corticosteroid on a collagen implant in surgery for glaucoma] Batmanov IE, et al. **Vestn Oftalmol** 1996 Sep–Oct;112(4):14–16 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Late onset of sequential multifocal bleb leaks after glaucoma filtration surgery with 5-fluorouracil and mitomycin C. Belyea DA, et al. **Am J Ophthalmol** 1997 Jul;124(1):40–5

The influence of 5-fluorouracil and methotrexate on vascular endothelium. An experimental study using endothelial cells in the culture. Cwikiel M, et al. **Ann Oncol** 1996 Sep; 7(7):731–7

Noninvasive evaluation of cardiotoxicity of 5-fluorouracil and low doses of folinic acid: a one-year follow-up study. Grandi AM, et al. **Ann Oncol** 1997 Jul;8(7):705–8

Major upper gastrointestinal haemorrhage associated with hepatic arterial chemoperfusion. Ross WB, et al. **Aust N Z J Surg** 1996 Dec;66(12):816–9

High-dose 5-fluorouracil infusional therapy is associated with hyperammonaemia, lactic acidosis and encephalopathy [letter] Yeh KH, et al. **Br J Cancer** 1997; 75(3):464–5

Inflammation of solar keratoses following systemic 5-fluorouracil. Bataille V, et al. **Br J Dermatol** 1996 Sep; 135(3):478–80

Corneal ectasia secondary to excessive ocular massage following trabeculectomy with 5-fluorouracil. Baldassare RD, et al. **Can J Ophthalmol** 1996 Aug;31(5):252–4

Late bleb leakage after trabeculectomy with 5-fluorouracil or mitomycin C. Susanna R Jr, et al. **Can J Ophthalmol** 1996 Oct;31(6):296–300

Neutropenic enterocolitis in a patient with colorectal carcinoma: unusual course after treatment with 5-fluorouracil and leucovorin—a case report. Kronawitter U, et al. **Cancer** 1997 Aug 15;80(4):656–60

Gastric mucosal blood flow and gastric secretion following intravenous administration of 5-fluorouracil in anesthetized rats. Kakinuma S, et al. **Cancer Chemother Pharmacol** 1997; 39(4):357–60

Acute mesenteric ischaemia associated with 5-FU, cisplatin and vincristine chemotherapy. Allerton R. **Clin Oncol (R Coll Radiol)** 1996;8(2):116–7 (15 ref.)

Systemic contact dermatitis from 5-fluorouracil. Nadal C, et al. **Contact Dermatitis** 1996 Aug;35(2):124–5

Hand-foot syndrome induced by high-dose, short-term, continuous 5-fluorouracil infusion. Chiara S, et al. **Eur J Cancer** 1997 May;33(6):967–9

Colitis associated to chemotherapy with 5-fluorouracil. Trevisani F, et al. **Hepatogastroenterology** 1997 May–Jun; 44(15):710–2

Temporary ectropion due to topical fluorouracil [letter] Lewis JE. **Int J Dermatol** 1997 Jan;36(1):79

Allergic contact dermatitis and reactivation phenomenon from iontophoresis of 5-fluorouracil. Anderson LL, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):478–9

Phase I trial of PN401, an oral prodrug of uridine, to prevent toxicity from fluorouracil in patients with advanced cancer. Kelsen DP, et al. **J Clin Oncol** 1997 Apr;15(4):1511–7

Phase III controlled evaluation of sucralfate to alleviate stomatitis in patients receiving fluorouracil-based chemotherapy. Loprinzi CL, et al. **J Clin Oncol** 1997 Mar; 15(3):1235–8

Focal dystonia after chemotherapy: a case series. Brashear A, et al. **J Neurooncol** 1997 Sep;34(2):163–7

Strategic proposals for predicting drug-drug interactions during new drug development: based on sixteen deaths caused by interactions of the new antiviral sorivudine with 5-fluorouracil prodrugs. Watabe T. **J Toxicol Sci** 1996 Dec; 21(5):299–300

Dihydropyrimidine dehydrogenase deficiency: a pharmacogenetic defect causing severe adverse reactions to 5-fluorouracil-based chemotherapy. Morrison GB, et al. **Oncol Nurs Forum** 1997 Jan–Feb;24(1):83–8 (22 ref.)

Transforming growth factor-beta 3 mediated modulation of cell cycling and attenuation of 5-fluorouracil induced oral mucositis. Sonis ST, et al. **Oral Oncol** 1997 Jan;33(1):47–54

Multisite mucous membrane bleeding due to a possible interaction between warfarin and 5-fluorouracil. Brown MC. **Pharmacotherapy** 1997 May–Jun;17(3):631–3

Acute encephalopathy attributed to 5-FU. Langer CJ, et al. **Pharmacotherapy** 1996 Mar–Apr;16(2):311–3

Symptomatic cardiotoxicity associated with 5-fluorouracil. Meyer CC, et al. **Pharmacotherapy** 1997 Jul–Aug; 17(4):729–36

Dihydropyrimidine dehydrogenase deficiency: a potential etiology for 5-fluorouracil-induced neurotoxicity. Risso ME, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):847–8; discussion 849

Iatrogenic chest pain—5-fluorouracil cardiotoxicity [letter] Cassidy J. **QJM** 1997 Apr;90(4):305–6

Iatrogenic chest pain: a case of 5-fluorouracil cardiotoxicity [letter] Farooqi IS, et al. **QJM** 1996 Dec;89(12):953–5

Evaluation of factors influencing 5-fluorouracil-induced diarrhea in colorectal cancer patients. An Italian Group for the Study of Digestive Tract Cancer (GISCAD) study. Cascinu S, et al. **Support Care Cancer** 1997 Jul;5(4):314–7

5-Fluorouracil-induced severe but reversible cardiogenic shock: a case report. Akhtar SS, et al. **Tumori** 1996 Sep–Oct;82(5):505–7

Sucralfate prophylaxis of fluorouracil-induced stomatitis. Giorgi F, et al. **Tumori** 1996 Nov–Dec;82(6):585–7

[Cardiotoxicity of 5-fluorouracil] Pan L, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Feb;31(2):86–9 (Eng. Abstr.) **(Chi)**

[The injury of liver sinusoidal endothelial cells in a rat's isolated liver perfusion (ILP) model for regional chemotherapy] Xing X, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):47–9 (Eng. Abstr.) **(Chi)**

[Reversible liver steatosis in patients treated with 5-fluorouracil and interferon-alpha] Sørensen P, et al. **Ugeskr Laeger** 1997 Feb 3;159(6):765–7 (Eng. Abstr.) **(Dan)**

[Anticancer drug-induced colitis—case report and review of the literature] Abe H, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):619–24 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Inhibition of 5-fluorouracil-cisplatin-induced stomatitis by oral cryotherapy: use of an ice-bar containing fibrinolysin and deoxyribonuclease combine (Elase)] Sato A, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1135–9 (Eng. Abstr.) **(Jpn)**

[Case of acute immune hemolytic anemia developing during fluorouracil administration following surgery of colonic cancer] Nosaka S, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):687–8 **(Jpn)**

ANALOGS & DERIVATIVES

Metabolites of 5-fluorouracil, alpha-fluoro-beta-alanine and fluoroacetic acid, directly injure myelinated fibers in tissue culture. Akiba T, et al. **Acta Neuropathol (Berl)** 1996 Jul; 92(1):8–13

Simultaneous determination of dihydrofluorouracil and 5-fluorouracil in plasma by high-performance liquid chromatography. Ackland SP, et al. **Anal Biochem** 1997 Mar 1;246(1):79–85

Effects of thermochemotherapy [1-hexylcarbamoyl-5-fluorouracil (HCFU) combined with hyperthermia]: a basic study on the most effective timing and sequence in vivo. Sakurai K, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2729–33

Combined effect of clinically relevant doses of emitefur, a new 5-fluorouracil derivative, and radiation in murine tumours. Shibamoto Y, et al. **Br J Cancer** 1996 Dec; 74(11):1709–13

Improved surgical results after combining preoperative hyperthermia with chemotherapy and radiotherapy for patients with carcinoma of the rectum. Ohno S, et al. **Dis Colon Rectum** 1997 Apr;40(4):401–6

High-performance liquid chromatographic determination of 5-fluorouracil and its prodrugs, tegafur and 4-deoxy-5-fluorouracil, in rat plasma. Jarugula VR, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):199–203

Oral adjuvant chemotherapy with carmofur (HCFU) for colorectal cancer: five-year follow-up. Tokai HCFU Study Group—third study on colorectal cancer. Ito K, et al. **J Surg Oncol** 1996 Oct;63(2):107–11

Leukopenia-inducing effect of a combination of a new 5-fluorouracil (5-FU)-derived drug, BOF-A2 (emitefur), with other 5-FU-derived drugs or BV-araU (sorivudine) in rats. Miyauchi S, et al. **Jpn J Pharmacol** 1996 Feb; 70(2):139–48

Investigation of the mechanisms of DNA binding of the human G/T glycosylase using designed inhibitors. Schärer OD, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):4878–83

ANALYSIS

Determination of S-1 (combined drug of tegafur, 5-chloro-2,4-dihydroxypyridine and potassium oxonate) and 5-fluorouracil in human plasma and urine using high-performance liquid chromatography and gas chromatography-negative ion chemical ionization mass spectrometry. Matsushima E, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):95–104

[Experimental study on CDDP, 5-FU concentrations of paraaortic and mesenteric lymph nodes after subphrenic infusion] Kawahara H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):789–96 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Improvement of intestinal toxicity of 5-fluorouracil by conagenin, a low molecular immunomodulator. Kawatsu M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2937–41

Myelosuppression in the pig (Sus scrofa): uteroferrin reduces the myelosuppressive effects of 5-fluorouracil in young pigs. Laurenz JC, et al. **Comp Biochem Physiol A Physiol** 1997 Apr;116(4):369–77

Thymic humoral factor-gamma 2 (THF-gamma 2) immunotherapy reduces the metastatic load and restores immunocompetence in 3LL tumor-bearing mice receiving anticancer chemotherapy. Ophir R, et al. **Immunopharmacol Immunotoxicol** 1996 May;18(2):209–36

BLOOD

Simultaneous determination of dihydrofluorouracil and 5-fluorouracil in plasma by high-performance liquid chromatography. Ackland SP, et al. **Anal Biochem** 1997 Mar 1;246(1):79–85

Measurement of plasma 5-fluorouracil by high-performance liquid chromatography with comparison of results to tissue drug levels observed using in vivo 19F magnetic resonance spectroscopy in patients on a protracted venous infusion with or without interferon-alpha. Findlay MP, et al. **Ann Oncol** 1996 Jan;7(1):47–53

Simultaneous gas chromatographic-mass spectrophotometric determination of alpha-fluoro-beta-alanine and 5-fluorouracil in plasma. Anderson D, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):87–93

High-performance liquid chromatographic determination of 5-fluorouracil and its prodrugs, tegafur and 4-deoxy-5-fluorouracil, in rat plasma. Jarugula VR, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):199–203

Determination of 5-fluorouracil and its main metabolites in plasma by high-performance liquid chromatography: application to a pharmacokinetic study. Joulia JM, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):427–35

High-performance liquid chromatographic assay of 5-fluorouracil in human erythrocytes, plasma and whole blood. Wattanatorn W, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):233–7

Rapid and sensitive high-performance liquid chromatographic analysis of halogenopyrimidines in plasma. Gamelin E, et al. **J Chromatogr B Biomed Sci Appl** 1997 Aug 1;695(2):409–16

Determination of 5-fluorouracil in human plasma by a simple and sensitive reversed-phase HPLC method. Coe RA, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1733–41

CHEMISTRY

Stability of fluorouracil in polypropylene syringes and ethylene vinyl acetate infusion-pump reservoirs [letter] Baud-Camus F, et al. **Am J Health Syst Pharm** 1996 Jun 15;53(12):1457, 1461

Precipitation of fluorouracil in elastomeric infusers with a polyisoprene reservoir and in polypropylene syringes with an elastomeric joint. Corbrion V, et al. **Am J Health Syst Pharm** 1997 Aug 15;54(16):1845–8

Stability of deferoxamine mesylate, floxuridine, fluorouracil, hydromorphone hydrochloride, lorazepam, and midazolam hydrochloride in polypropylene infusion-pump syringes. Stiles ML, et al. **Am J Health Syst Pharm** 1996 Jul 1; 53(13):1583–8

Rapid loss of fentanyl citrate admixed with fluorouracil in polyvinyl chloride containers. Xu QA, et al. **Ann Pharmacother** 1997 Mar;31(3):297–302

Stability and compatibility of fluorouracil with morphine sulfate and hydromorphone hydrochloride. Xu QA, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):756–61

Solution structures of 5-fluorouracil-substituted RNA duplexes containing G-U wobble base pairs. Sahasrabudhe PV, et al. **Biochemistry** 1997 May 20;36(20):5981–91

Solution structures of 5-fluorouracil-substituted DNA and RNA decamer duplexes. Sahasrabudhe PV, et al. **Biochemistry** 1996 Oct 22;35(42):13597–608

ECONOMICS

Advanced colorectal carcinoma: redefining the role of oral ftorafur. Ron IG, et al. **Anticancer Drugs** 1996 Aug; 7(6):649–54

Skin lesion removal rationed in Florida [news] Charatan FB. **BMJ** 1996 Dec 14;313(7071):1506

METABOLISM

Metabolites of 5-fluorouracil, alpha-fluoro-beta-alanine and

fluoroacetic acid, directly injure myelinated fibers in tissue culture. Akiba T, et al. **Acta Neuropathol (Berl)** 1996 Jul; 92(1):8–13

An alternative molecular mechanism of action of 5–fluorouracil, a potent anticancer drug. Ghoshal K, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1569–75 (50 ref.)

Opiate effects on 5–fluorouracil disposition in mice. Li Y, et al. **Cancer Chemother Pharmacol** 1997;39(3):273–7

Tiazofurin enhances the anabolism and toxicity of 5–fluorouracil. Cysyk RL, et al. **Cancer Lett** 1996 Dec 3; 109(1–2):49–55

Preliminary examination of the influence of incubation time or cytosolic protein concentration on dihydropyrimidine dehydrogenase activity. Tateishi T, et al. **Clin Chim Acta** 1996 Aug 15;252(1):1–9

Biochemical mechanisms of interferon modulation of 5–fluorouracil activity in colon cancer cells. van der Wilt CL, et al. **Eur J Cancer** 1997 Mar;33(3):471–8

5–Fluorouracil metabolite patterns in viable and necrotic tumor areas of murine colon carcinoma determined by 19F NMR spectroscopy. Kamm YJ, et al. **Magn Reson Med** 1996 Sep;36(3):445–50

Proton–decoupled 19F spectroscopy of 5–FU catabolites in human liver. Murphy–Boesch J, et al. **Magn Reson Med** 1997 Mar;37(3):321–6

Assessment of the biodistribution and metabolism of 5–fluorouracil as monitored by 18F PET and 19F MRI: a comparative animal study. Brix G, et al. **Nucl Med Biol** 1996 Oct;23(7):897–906

[Pyrimidine nucleoside phosphorylase activity, 5–fluorouracil concentration and thymidylate synthase inhibition rate in colorectal cancer after oral administration of 5'–doxifluridine] Tomoda H, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):971–4 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

Intravitreal concentrations of some drugs administered with microdialysis. Waga J, et al. **Acta Ophthalmol Scand** 1997 Feb;75(1):36–40

Selective delivery of 5–fluorouracil (5–FU) to i.p. tissues using 5–FU microspheres in rats. Hagiwara A, et al. **Anticancer Drugs** 1997 Feb;8(2):182–8

Drug retention following intravesical delivery of fluorouracil therapeutic adhesive in C3H mouse bladder. Singh SS, et al. **Anticancer Drugs** 1996 Jul;7(5):507–13

Pharmacokinetics of 5–fluorouracil (5–FUra) in patients with metastatic colorectal cancer receiving 5–FUra bolus plus continuous infusion with high dose folinic acid (LV5FU2). Joulia JM, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2727–30

Modulation of the pharmacokinetics of 5'–deoxy–5–fluorouridine and 5–fluorouracil in rats by oral co–administration of acyclothymidine. Hamada A, et al. **Biol Pharm Bull** 1996 May;19(5):729–32

Intestinal brush border transport mechanism of 5–fluorouracil in rats. Yuasa H, et al. **Biol Pharm Bull** 1996 Jan;19(1):94–9

Dose–dependent gastrointestinal absorption of 5–fluorouracil in rats in vivo. Yuasa H, et al. **Biol Pharm Bull** 1996 Nov; 19(11):1494–8

Pharmacokinetics of intrapericardial administration of 5–fluorouracil. Lerner–Tung MB, et al. **Cancer Chemother Pharmacol** 1997;40(4):318–20

The activity of dihydropyrimidine dehydrogenase from rat liver was not affected by any of five 5–hydroxytryptamine antagonists. Tateishi T, et al. **Cancer Lett** 1996 Nov 12; 108(1):1–5

Pharmacokinetic analysis of 5–[18F]fluorouracil tissue concentrations measured with positron emission tomography in patients with liver metastases from colorectal adenocarcinoma. Kissel J, et al. **Cancer Res** 1997 Aug 15;57(16):3415–23

Regional pharmacokinetics of 5–bromo–2'–deoxyuridine and 5–fluorouracil in dogs: hepatic arterial versus portal venous infusions. Kuan HY, et al. **Cancer Res** 1996 Oct 15; 56(20):4724–7

5–fluorouracil kinetics in the interstitial tumor space: clinical response in breast cancer patients. Müller M, et al. **Cancer Res** 1997 Jul 1;57(13):2598–601

Effect of regional angiotensin II infusion on the relationship between tumour blood flow and fluorouracil uptake in a liver metastasis animal model. Dworkin MJ, et al. **Eur J Cancer** 1996 Aug;32A(9):1580–4

Tumor retention of 5–fluorouracil following irradiation observed using 19F nuclear magnetic resonance spectroscopy. Blackstock AW, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):641–8

Pharmacokinetic, oral bioavailability, and safety study of fluorouracil in patients treated with 776C85, an inactivator of dihydropyrimidine dehydrogenase. Baker SD, et al. **J Clin Oncol** 1996 Dec;14(12):3085–96

Terpene penetration enhancers in propylene glycol/water co–solvent systems: effectiveness and mechanism of action. Yamane MA, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):978–89

Nonlinear pharmacokinetics of 5–fluorouracil in rats. Jarugula VR, et al. **J Pharm Sci** 1997 Jun;86(6):756–8

Incorporation of 5–fluorouracil into hepatoma and normal tissue RNA at protein depletion in the rat. Roos G, et al. **J Surg Oncol** 1997 Jul;65(3):155–8

Secondary ion mass spectrometry (SIMS) microscopy: a new tool for pharmacological studies in humans. Fragu P, et al. **Microsc Res Tech** 1997 Feb 15;36(4):296–300

18F–radiopharmacokinetics of [18F]–5–fluorouracil in a mouse bearing two colon tumors with a different 5–fluorouracil sensitivity: a study for a correlation with oncological results. Visser GW, et al. **Nucl Med Biol** 1996 Apr;23(3):333–42

In vitro evaluation of polymeric matrix and porous biodegradable reservoir devices for slow–release drug delivery. Peyman GA, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):384–91

The enhancer effect of several phenyl alcohols on percutaneous penetration of 5–fluorouracil. López A, et al. **Pharm Res** 1997 May;14(5):681–5

In vitro and in vivo evaluation in rabbits of a controlled release 5–fluorouracil subconjunctival implant based on poly(D,L–lactide–co–glycolide). Wang G, et al. **Pharm Res** 1996 Jul;13(7):1059–64

Mechanisms of 5–fluorouracil (5–FU) transport in isolated rabbit choroid plexus tissue slices. Washington CB, et al. **Pharm Res** 1996 Aug;13(8):1276–8

Intestinal anaerobic bacteria hydrolyse sorivudine, producing the high blood concentration of 5–(E)–(2–bromovinyl)uracil that increases the level and toxicity of 5–fluorouracil. Nakayama H, et al. **Pharmacogenetics** 1997 Feb;7(1):35–43

IL–2 perfusion to the liver augments the hepatic extraction rate of accompanying anticancer drugs. Okuno K, et al. **Surg Today** 1996;26(8):662–4

Individualizing therapy with 5–fluorouracil related to dihydropyrimidine dehydrogenase: theory and limits. Milano G, et al. **Ther Drug Monit** 1996 Aug;18(4):335–40 (41 ref.)

PHARMACOLOGY

Continuous infusion of 5–fluorouracil plus low–dose cisplatin in tumor–bearing mice. Kamano T, et al. **Anticancer Drugs** 1997 Jul;8(6):632–6

Irreversible cytotoxic effect of a novel lowly immunosuppressive antitumor fluorouridine derivative, UK–21. Mori H, et al. **Anticancer Drugs** 1997 Jun; 8(5):482–8

Dual effects of folinic acid in 5–fluorouracil induced killing of human tumor cell lines in vitro. Blomgren H, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2713–7

Cytotoxic interactions of 5–fluorouracil and nucleoside analogues in vitro. Li YX, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):21–7

5–Fluorouracil induces apoptotic cell death with G2 phase arrest in human breast cancer grafted in nude mice. Okamoto S, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):2699–704

Potentiation of the stavudine anti–human immunodeficiency virus activity by 5–fluorouracil [letter] Gong YF, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1329

Inhibition of replication of rinderpest virus by 5–fluorouracil. Ghosh A, et al. **Antiviral Res** 1996 Jun;31(1–2):35–44

Effect of 5–fluorouracil on interleukin–1 and interleukin–2 receptor expression. Balaji KN, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):419–24

Dual modulation of 5–fluorouracil cytotoxicity using folinic acid with a dihydropyrimidine dehydrogenase inhibitor. Fischel JL, et al. **Biochem Pharmacol** 1997 Jun 1; 53(11):1703–9

Mechanisms of acquired resistance to modulation of 5–fluorouracil by leucovorin in HCT–8 human ileocecal carcinoma cells. Lu K, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):689–96

Phenotypic and functional changes induced at the clonal level in hematopoietic stem cells after 5–fluorouracil treatment. Randall TD, et al. **Blood** 1997 May 15;89(10):3596–606

Pharmacological effects of 5–fluorouracil microspheres on peritoneal carcinomatosis in animals. Hagiwara A, et al. **Br J Cancer** 1996 Nov;74(9):1392–6

In vivo effect of platelet factor 4 (PF4) and tetrapeptide AcSDKP on haemopoiesis of mice treated with 5–fluorouracil. Aidoudi S, et al. **Br J Haematol** 1996 Sep; 94(3):443–8

Ex vivo cytokine expansion of peripheral blood 5–fluorouracil–treated CD34–positive chronic myeloid leukaemia cells increases the selection of Ph–negative cells. Mahon FX, et al. **Br J Haematol** 1997 Aug;98(2):467–73

Modulation of the expression on constitutive rat hepatic cytochrome P450 isozymes by 5–fluorouracil. Afsar A, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):150–6

Dihydropyrimidine dehydrogenase inactivation and 5–fluorouracil pharmacokinetics: allometric scaling of animal data, pharmacokinetics and toxicodynamics of 5–fluorouracil in humans. Khor SP, et al. **Cancer Chemother Pharmacol** 1997;39(3):233–8

Preventive effect of 1–(2–tetrahydrofuryl)–5–fluorouracil in combination with uracil on colonic carcinogenesis induced by 1,2–dimethylhydrazine in rats. Sakamoto S, et al. **Cancer Detect Prev** 1997;21(4):340–5

Tiazofurin enhances the anabolism and toxicity of 5–fluorouracil. Cysyk RL, et al. **Cancer Lett** 1996 Dec 3; 109(1–2):49–55

Nicotinamide–induced modification of hepatic MFO systems in tumour–bearing rats, treated with anti–cancer drugs. Kamat JP. **Cancer Lett** 1996 Dec 3;109(1–2):85–90

Evidence that cutaneous carcinogen–initiated epithelial cells from mice are quiescent rather than actively cycling. Morris RJ, et al. **Cancer Res** 1997 Aug 15;57(16):3436–43

Mechanisms of clinical resistance to 5–fluorouracil chemotherapy. Chu E, et al. **Cancer Treat Res** 1996; 87:175–95 (130 ref.)

Effect of electric pulses and antiproliferative drugs on cultured bovine retinal pigment epithelial cells. Oshima Y, et al. **Curr Eye Res** 1997 Jan;16(1):64–70

Localization of megakaryocytes in normal mice and following administration of platelet antiserum, 5–fluorouracil, or radiostrontium: evidence for the site of platelet production. Davis RE, et al. **Exp Hematol** 1997 Jul;25(7):638–48

5–Fluorouracil and levamisole exacerbate demyelination in susceptible mice infected with Theiler's virus. Lucchinetti CF, et al. **Exp Neurol** 1997 Sep;147(1):123–9

The use of cationic liposomes DC–CHOL/DOPE and DDAB/DOPE for direct transfer of Escherichia coli cytosine deaminase gene into growing melanoma tumors. Szala S, et al. **Gene Ther** 1996 Nov;3(11):1026–31

Growth inhibition and apoptotic cell death in uterine cervical carcinoma cells induced by 5–fluorouracil. Ueda M, et al. **Int J Cancer** 1997 May 16;71(4):668–74

Colonic healing after early intraperitoneal administration of 5–fluorouracil and interferon in rats. Kanellos I, et al. **Int J Colorectal Dis** 1997;12(1):45–8

Single exposures to antiproliferatives: long–term effects on ocular fibroblast wound–healing behavior. Occleston NL, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):1998–2007

Effect of calcium channel blockers on the action of various antitumour agents in the yeast Saccharomyces cerevisiae. Tillgada E, et al. **J Appl Bacteriol** 1996 Nov;81(5):481–5

Fluorouracil in colorectal cancer—a tale of two drugs: implications for biochemical modulation. Sobrero AF, et al. **J Clin Oncol** 1997 Jan;15(1):368–81 (163 ref.)

5–fluorouracil modulates the toxicity of high dose methotrexate. White RM. **J Clin Pharmacol** 1995 Dec; 35(12):1156–65

Risk of microbial contamination with multiple use of 5–fluorouracil vials. Mora JS, et al. **J Glaucoma** 1996 Dec; 5(6):371–4

Drug–induced changes of carcinoembryonic antigen expression in human cancer cells: effect of 5–fluorouracil. Prete SP, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1574–81

Experimental studies on potentiation of the antitumor activity of 5–fluorouracil with 3'–azido–3'–deoxythymidine for the gastric cancer cell line MKN28 in vivo. Yasuda C, et al. **Jpn J Cancer Res** 1997 Jan;88(1):97–102

Activation of quiescent ABL–transduced hemopoietic stem cells. Chung SW, et al. **Oncogene** 1996 Dec 5; 13(11):2397–405

Modulation of 5–fluorouracil resistance in human colon tumor cell lines by azidothymidine. Findenig G, et al. **Oncol Res** 1996;8(5):189–96

Inhibition by 5–fluorouracil of ERCC1 and gamma–glutamylcysteine synthetase messenger RNA expression in a cisplatin–resistant HST–1 human squamous carcinoma cell line. Fujishima H, et al. **Oncol Res** 1997; 9(4):167–72

Prevention of secondary cataract by antimitotic drugs: experimental study. Ismail MM, et al. **Ophthalmic Res** 1996; 28(1):64–9

Inhibition by uridine but not thymidine of p53–dependent intestinal apoptosis initiated by 5–fluorouracil: evidence for the involvement of RNA perturbation. Pritchard DM, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1795–9

Investigation of the mechanisms of DNA binding of the human G/T glycosylase using designed inhibitors. Schärer OD, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):4878–83

Stem cell factor has contrasting effects in combination with 5–fluorouracil or total–body irradiation on frequencies of different hemopoietic cell subsets and engraftment of transplanted bone marrow. Down JD, et al. **Radiat Res** 1997 Jun;147(6):680–5

Changes in markers, receptors and adhesion molecules expressed on murine hemopoietic stem cells after a single injection of 5–fluorouracil. Nishio N, et al. **Stem Cells** 1996 Sep;14(5):584–91

Long–term engraftment of precultured post–5–fluorouracil allogeneic marrow in mice conditioned with a nonmyeloablative regimen: relevance for a gene therapy approach to tolerance induction. Hayashi H, et al. **Transpl Immunol** 1996 Mar;4(1):86–90

[Morphological changes in human colon carcinoma after chemotherapy with 5–fluorouracil—a study in the nude mouse model] Lohwasser S, et al. **Z Gastroenterol** 1997 May;35(5):319–26 (Eng. Abstr.) **(Ger)**

[Effects of carcinostatic agents in the hematogenous metastasis of cancer] Nakashio T, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):591–6 (Eng. Abstr.) **(Jpn)**

[The correlation between thymidylate synthase expression and cytotoxicity of 5–fluorouracil in human cancer cell lines: study using polyclonal antibody against recombinant human thymidylate synthase] Okabe H, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):705–12 (Eng. Abstr.) **(Jpn)**

[Chemosensitivity test on hepatocellular carcinoma (HCC) and drug resistance] Ishimura H. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):689–98 (Eng. Abstr.) **(Jpn)**

FLUOROURACIL

THERAPEUTIC USE

Biochemical modulation by 5-fluorouracil and 1-folinic acid of tumor uptake of intra-arterial 5-[123I]iodo-2'deoxyuridine in patients with liver metastases from colorectal cancer. Mariani G, et al. **Acta Oncol** 1996;35(7):941-5

Concomitant intraarterial cisplatin, intravenous 5-flourouracil, and split-course radiation therapy for locally advanced unresectable pancreatic adenocarcinoma: a phase II study of the Puget Sound Oncology Consortium (PSOC-703). Thomas CR Jr, et al. **Am J Clin Oncol** 1997 Apr;20(2):161-5

Trabeculectomy with intraoperative 5-fluorouracil vs mitomycin C. Singh K, et al. **Am J Ophthalmol** 1997 Jan; 123(1):48-53

Prognostic significance of computed tomography in tumors of the oral cavity and oropharynx treated with neoadjuvant chemotherapy. Verschuur HP, et al. **Am J Otolaryngol** 1997 May-Jun;18(3):190-6

5-Fluorouracil versus 5-fluorouracil plus alpha-interferon as treatment of metastatic colorectal carcinoma. A randomized study [see comments] Dufour P, et al. **Ann Oncol** 1996 Aug;7(6):575-9. Comment in: Ann Oncol 1996 Aug;7(6):551-2.

5-Fluorouracil in colorectal cancer, a never ending story [editorial; comment] [see comments] Herrmann R. **Ann Oncol** 1996 Aug;7(6):551-2. Comment on: Ann Oncol 1996 Aug;7(6):575-9. Comment in: Ann Oncol 1997 Feb;8(2):139-40; discussion 141. Comment in: Ann Oncol 1997 Feb;8(2):203. Comment in: Ann Oncol 1997 Feb;8(2):203-4.

5-fluorouracil and folinic acid in advanced adenocarcinoma of the esophagus or esophago-gastric junction area. Rotterdam Esophageal Tumor Study Group. Kok TC, et al. **Ann Oncol** 1996 Jul;7(5):533-4

Multifocal leukoencephalopathy associated with 5-fluorouracil and levamisole adjuvant therapy for colon cancer. A report of two cases and review of the literature. The INTACC. Intergruppo Nazionale Terpia Adiuvante Colon Carcinoma. Luppi G, et al. **Ann Oncol** 1996 Apr; 7(4):412-5 (11 ref.)

5-Fluorouracil revisited: a new perspective for treatment planning [letter; comment] Presant CA, et al. **Ann Oncol** 1997 Feb;8(2):203-4. Comment on: Ann Oncol 1996 Aug;7(6):551-2.

Infusional 5-fluorouracil in the treatment of gastrointestinal cancers: the Royal Marsden Hospital experience. Ross PJ, et al. **Ann Oncol** 1997 Feb;8(2):111-5 (24 ref.)

A phase II trial of gemcitabine in patients with 5-FU-refractory pancreas cancer [see comments] Rothenberg ML, et al. **Ann Oncol** 1996 Apr;7(4):347-53. Comment in: Ann Oncol 1996 Apr;7(4):333-4. Comment in: Ann Oncol 1996 Apr;7(4):335-7.

5-Fluorouracil-based treatment of patients with advanced colorectal carcinoma outside clinical trials: importance of limited toxicity [letter; comment] van Halteren HK, et al. **Ann Oncol** 1997 Feb;8(2):203. Comment on: Ann Oncol 1996 Aug;7(6):551-2.

The role of 5-fluorouracil dose in the adjuvant therapy of colorectal cancer. Zalcberg JR, et al. **Ann Oncol** 1996 Jan; 7(1):42-6

Weekly chronomodulated 48 h infusion of high-dose 5-fluorouracil modulated by methotrexate and (6S)-leucovorin in advanced colorectal cancer: a phase IB study. Punt CJ, et al. **Anticancer Drugs** 1997 Jun;8(5):454-8

Development of a novel form of an oral 5-fluorouracil derivative (S-1) directed to the potentiation of the tumor selective cytotoxicity of 5-fluorouracil by two biochemical modulators. Shirasaka T, et al. **Anticancer Drugs** 1996 Jul; 7(5):548-57

Phase II trial of continuous oral trofosfamide in patients with advanced colorectal cancer refractory to 5-fluorouracil. Strumberg D, et al. **Anticancer Drugs** 1997 Mar;8(3):293-5

5-FU-induced apoptosis correlates with efficacy against human gastric and colon cancer xenografts in nude mice. Inada T, et al. **Anticancer Res** 1997 May-Jun; 17(3C):1965-71

Pre-operative radiotherapy and chemotherapy for non-resectable rectal cancer. Leong T, et al. **Aust N Z J Surg** 1997 Sep;67(9):603-6

A phase III study of radiotherapy with and without continuous-infusion fluorouracil as palliation for non-small-cell lung cancer. Ball D, et al. **Br J Cancer** 1997; 75(5):690-7

Interleukin 2 and interferon alpha-2a do not improve anti-tumour activity of 5-fluorouracil in advanced colorectal cancer. Goey SH, et al. **Br J Cancer** 1996 Dec; 74(12):2018-23

A phase II study of recombinant interferon-beta (r-hIFN-beta 1a) in combination with 5-fluorouracil (5-FU) in the treatment of patients with advanced colorectal carcinoma. Joffe JK, et al. **Br J Cancer** 1997; 75(3):423-6

A phase II randomised trial of 5-fluorouracil with or without interferon alpha-2a in advanced colorectal cancer. Piga A, et al. **Br J Cancer** 1996 Sep;74(6):971-4

Bcl-2 expression and response to chemotherapy in colorectal adenocarcinomas. Schneider HJ, et al. **Br J Cancer** 1997; 75(3):427-31

Trabeculectomy with intraoperative sponge 5-fluorouracil in Afro-Caribbeans. Lachkar Y, et al. **Br J Ophthalmol** 1997 Jul;81(7):555-8 (28 ref.)

Randomized controlled trial of postoperative radiotherapy and short-term time-scheduled 5-fluorouracil against surgery alone in the treatment of Dukes B and C rectal cancer. Norwegian Adjuvant Rectal Cancer Project Group. Tveit KM, et al. **Br J Surg** 1997 Aug;84(8):1130-5

Protracted 5-fluorouracil infusion with concurrent radiotherapy as a treatment for locally advanced pancreatic carcinoma. Ishii H, et al. **Cancer** 1997 Apr 15;79(8):1516-20

Enhanced induction of apoptosis of human gastric carcinoma cells after preoperative treatment with 5-fluorouracil. Sugamura K, et al. **Cancer** 1997 Jan 1;79(1):12-7

A phase I study of 5-fluorouracil, leucovorin and levamisole. Cleary JF, et al. **Cancer Chemother Pharmacol** 1997; 39(4):300-6

Tumor size and origin determine the antitumor activity of cisplatin or 5-fluorouracil and its modulation by leucovorin in murine colon carcinomas. Van Laar JA, et al. **Cancer Chemother Pharmacol** 1996;39(1-2):79-89

Synergistic effects of Actinobacillus suis cells in combination with 5-fluorouracil on mice bearing murine L1210 leukemia cells. Watanabe T, et al. **Cancer Immunol Immunother** 1997 Jun;44(4):216-20

AcSDKP plasma concentrations in patients with solid tumours: comparison of two chemotherapeutic regimens. Comte L, et al. **Cancer Lett** 1997 Jan 15;112(1):1-4

Thymidylate synthase is a predictor for response and resistance in hepatic artery infusion chemotherapy. Kornmann M, et al. **Cancer Lett** 1997 Sep 16;118(1):29-35

Intraoperative electron and external beam irradiation with or without 5-fluorouracil and maximum surgical resection for previously unirradiated, locally recurrent colorectal cancer. Gunderson LL, et al. **Dis Colon Rectum** 1996 Dec; 39(12):1379-95

Use of intraperitoneal 5-fluorouracil and chlorhexidine for prevention of recurrence of perforated colorectal carcinoma in a rat model. Stuntz M, et al. **Dis Colon Rectum** 1997 Sep;40(9):1085-8

Comparison of chemotherapy and X-ray therapy with Ukrain monotherapy for colorectal cancer. Susak YM, et al. **Drugs Exp Clin Res** 1996;22(3-5):115-22

Colorectal cancer: the challenge. Bleiberg H. **Eur J Cancer** 1996;32A Suppl 5:S2-6 (58 ref.)

Colorectal cancer--is there an alternative to 5-FU? Bleiberg H. **Eur J Cancer** 1997 Apr;33(4):536-41 (32 ref.)

Assessing clinical benefit in the treatment of pancreas cancer: gemcitabine compared to 5-fluorouracil. Burris H, et al. **Eur J Cancer** 1997 Jan;33 Suppl 1:S18-22

Relevance of tumoral folylpolyglutamate synthetase and reduced folates for optimal 5-fluorouracil efficacy: experimental data. Chéradame S, et al. **Eur J Cancer** 1997 May;33(6):950-9

Double biochemical modulation of 5-fluorouracil by methotrexate and levo-folinic acid in the treatment of advanced digestive tract malignancies. Comella P, et al. **Eur J Cancer** 1996 Sep;32A(10):1719-26

Modulated 5-fluorouracil (5-FU) regimens in advanced colorectal cancer: a critical review of comparative studies. Labianca R, et al. **Eur J Cancer** 1996;32A Suppl 5:S7-12 (55 ref.)

Treatment of men with flat (FC) or acuminata (CA) condylomata with interferon alpha-2a. Relakis K, et al. **Eur J Gynaecol Oncol** 1996;17(6):529-33

Treatment with 5-fluorouracil of 35 patients with clinical or subclinical HPV infection of the vagina. Stefanon B, et al. **Eur J Gynaecol Oncol** 1996;17(6):534

Influence of intraperitoneal 5-fluorouracil plus folinic acid on the healing of colonic anastomoses in rats. Kanellos I, et al. **Eur Surg Res** 1996;28(5):374-9

Locally advanced primary colorectal cancer: IOERT and EBRT +/-5-FU. Gunderson LL, et al. **Front Radiat Ther Oncol** 1997;31:204-8

Locally recurrent colorectal cancer: IOERT and EBRT +/-5-FU and maximal resection. Gunderson LL, et al. **Front Radiat Ther Oncol** 1997;31:224-8

Topical 5-fluorouracil in the treatment of cervical human papillomavirus infection. Davila GW, et al. **Gynecol Obstet Invest** 1996;41(4):275-7

Low dose sequential methotrexate and 5-fluorouracil administration is effective and safe as neo-adjuvant chemotherapy in oral cancer. Asaumi J, et al. **In Vivo** 1996 Nov-Dec;10(6):559-62

Preoperative 5-FU, low-dose leucovorin, and radiation therapy for locally advanced and unresectable rectal cancer. Minsky BD, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):289-95

Biochemical modulation of 5-fluorouracil with murine interferon-alpha/beta against murine renal cell carcinoma. Marumo K, et al. **Int J Urol** 1997 Mar;4(2):163-8

Phase I trial of fluorouracil modulation by N-phosphonacetyl-L-aspartate and 6-methylmercaptopurine ribonucleoside (MMPR), and leucovorin in patients with advanced cancer. Hageboutros A, et al. **Invest New Drugs** 1997;15(2):139-45

Nonsurgical treatment of basal cell carcinomas with intralesional 5-fluorouracil/epinephrine injectable gel. Miller BH, et al. **J Am Acad Dermatol** 1997 Jan;36(1):72-7

Interferons as biochemical modulators [editorial; comment] Borden EC, et al. **J Clin Oncol** 1996 Oct;14(10):2627-30. Comment on: J Clin Oncol 1996 Oct;14(10):2653-65. Comment on: J Clin Oncol 1996 Oct;14(10):2774-84.

Improvements in survival and clinical benefit with gemcitabine as first-line therapy for patients with advanced pancreas cancer: a randomized trial. Burris HA 3rd, et al. **J Clin Oncol** 1997 Jun;15(6):2403-13

Randomized trial of vinorelbine compared with fluorouracil plus leucovorin in patients with stage IV non-small-cell lung cancer [see comments] [published erratum appears in J Clin Oncol 1996 Dec;14(12):3175] Crawford J, et al. **J Clin Oncol** 1996 Oct;14(10):2774-84. Comment in: J Clin Oncol 1996 Oct;14(10):2627-30.

Controlled trial of fluorouracil and low-dose leucovorin given for 6 months as postoperative adjuvant therapy for colon cancer. O'Connell MJ, et al. **J Clin Oncol** 1997 Jan; 15(1):246-50

Fluorouracil plus racemic leucovorin versus fluorouracil combined with the pure l-isomer of leucovorin for the treatment of advanced colorectal cancer: a randomized phase III study. Scheithauer W, et al. **J Clin Oncol** 1997 Mar;15(3):908-14

Adjuvant postoperative fluorouracil-modulated chemotherapy combined with pelvic radiation therapy for rectal cancer: initial results of intergroup 0114. Tepper JE, et al. **J Clin Oncol** 1997 May;15(5):2030-9

Adjuvant chemotherapy in colorectal cancer with high-dose leucovorin and fluorouracil: impact on disease-free survival and overall survival. Zaniboni A. **J Clin Oncol** 1997 Jun; 15(6):2432-41 (59 ref.)

Unusual multiple keratoacanthoma in a child successfully treated with 5-fluorouracil. Singal A, et al. **J Dermatol** 1997 Aug;24(8):546-8

Intra-hepatic arterial drug delivery. Blesing CH, et al. **J Drug Target** 1996;3(5):341-7 (63 ref.)

Use of antifibrosis agents and glaucoma drainage devices in the American and Japanese Glaucoma Societies. Chen PP, et al. **J Glaucoma** 1997 Jun;6(3):192-6

The Spanish experience with high-dose infusional 5-fluorouracil (5-FU) in colorectal cancer. The Spanish Cooperative Group For Gastrointestinal Tumor Therapy (TTD). Aranda E, et al. **J Infus Chemother** 1996 Summer; 6(3):118-22

The EORTC GI group experience with high-dose infusional 5-FU in colorectal cancer. Blijham GH. **J Infus Chemother** 1996 Summer;6(3):114-7

Continuous infusion 5-fluorouracil as first-line therapy for metastatic breast cancer. Chu L, et al. **J Infus Chemother** 1996 Fall;6(4):211-6

The French experience with infusional 5-fluorouracil in advanced colorectal cancer. de Gramont A, et al. **J Infus Chemother** 1996 Summer;6(3):133-6 (26 ref.)

First-line protracted venous infusion fluorouracil with CisDDP or carboplatin in advanced colorectal cancer. Garcia-Giralt E, et al. **J Infus Chemother** 1996 Summer; 6(3):149-51

Weekly high-dose infusional 5-fluorouracil (HD-5-FU) combinations in the treatment of advanced breast cancer: results of phase I/II studies with weekly 24-hour infusion of HD-5-FU plus high-dose folinic acid (FA) alone and in combination with paclitaxel and cisplatin. Klaassen U, et al. **J Infus Chemother** 1996 Summer;6(3):127-32 (34 ref.)

High-dose infusional 5-fluorouracil combination therapy of metastatic gastric and colorectal cancer. Loeffler TM, et al. **J Infus Chemother** 1996 Summer;6(3):137-40

Infusional 5-fluorouracil in the treatment of gastrointestinal cancers: The Royal Marsden Hospital experience. Ross PJ, et al. **J Infus Chemother** 1996 Summer;6(3):141-4 (19 ref.)

Weekly infusional 5-fluorouracil plus/minus other drugs for the treatment of advanced gastric cancer. Wilke H, et al. **J Infus Chemother** 1996 Summer;6(3):123-6

High-dose infusional 5-FU in the treatment of advanced colorectal cancer: a summary of the European experience. Wils JA. **J Infus Chemother** 1996 Summer;6(3):145-8 (26 ref.)

IFN-gamma in combination with IL-3 accelerates platelet recovery in mice with 5-fluorouracil-induced marrow aplasia. Tsuji-Takayama K, et al. **J Interferon Cytokine Res** 1996 Jun;16(6):447-51

Phase II study of 5-fluorouracil and leucovorin in recurrent primary brain tumor. Cascino TL, et al. **J Neurooncol** 1996 Dec;30(3):243-6

5-Fluorouracil reduces scarring after strabismus surgery. Andreo LK, et al. **J Pediatr Ophthalmol Strabismus** 1997 Mar-Apr;34(2):107-10

The role of initial 5-fluorouracil trabeculectomy in primary glaucoma. Dastur YK, et al. **J Postgrad Med** 1994 Oct-Dec; 40(4):197-201

Effect of preoperative 5-fluorouracil on apoptosis of advanced gastric cancer. Inada T, et al. **J Surg Oncol** 1997 Jun;65(2):106-10

In vivo and ex vivo study of metabolic and cellular effects of 5-fluorouracil chemotherapy in a mouse mammary carcinoma. Street JC, et al. **Magn Reson Imaging** 1997; 15(5):587-96

Simultaneous 3D NMR spectroscopy of proton-decoupled fluorine and phosphorus in human liver during 5-fluorouracil chemotherapy. Gonen O, et al. **Magn Reson Med** 1997 Feb;37(2):164-9

How to optimize the effect of 5-fluorouracil modulated therapy in advanced colorectal cancer. Ragnhammar P, et al. **Med Oncol** 1995 Sep;12(3):187-201 (137 ref.)

Biochemical modulation: its pharmacological basis and clinical applications. Proceedings of a meeting. Singapore, October 19, 1995. **Oncology** 1997;54 Suppl 1:1-39

Month-long postoperative radiotherapy and 5-FU improve survival in rectal cancer [news] **Oncology (Huntingt)** 1996

Sep;10(9):1311
5-Fluorouracil in primary combined glaucoma surgery [letter] Khouri AS, et al. **Ophthalmology** 1997 Oct; 104(10):1527–8
Topical 5-fluorouracil in treating epithelial neoplasia of the conjunctiva and cornea. Yeatts RP, et al. **Ophthalmology** 1995 Sep;102(9):1338–44
Combined preoperative irradiation and direct postoperative 5-fluorouracil without negative effects on early anastomotic healing in the rat colon. Biert J, et al. **Radiother Oncol** 1996 Dec;41(3):257–62
Pilot study in locally advanced unresectable pancreas carcinoma using a combination of accelerated radiotherapy and continuous infusion of 5-fluorouracil. Luderhoff EC, et al. **Radiother Oncol** 1996 Sep;40(3):241–3
Comparison by carcinoembryonic antigen doubling time of hepatic injection and infusion for unresectable hepatic metastasis from colorectal cancer. Ichikawa W, et al. **Surg Oncol** 1995;4(5):271–6
Relief of jaundice by 5-fluorouracil and folinic acid in patients with recurrent gastric cancer. Kajiyama Y, et al. **Surg Oncol** 1996 Aug;5(4):177–81
Increased apoptosis rate by hyperthermochemoradiotherapy for advanced rectal cancers. Sakakura C, et al. **Surg Today** 1997;27(8):773–6
[Colorectal carcinoma: therapeutic approach in patients already treated with metastasis resection] Bajetta E, et al. **Ann Ital Chir** 1996 Nov–Dec;67(6):827–30 (Eng. Abstr.) **(Ita)**
[Drug therapy of condylomata acuminata] Zarcone R, et al. **Minerva Ginecol** 1996 Jul–Aug;48(7–8):299–302 (Eng. Abstr.) **(Ita)**
[Clinical use of platinum compounds and fluorinated pyrimidines for lung cancer] Kobayashi K. **Gan To Kagaku Ryoho** 1996 Nov;23(13):1747–56 (51 ref.) (Eng. Abstr.) **(Jpn)**
[The characteristics of the pathogenesis and immunomodulator treatment in the postoperative period in pseudophakia patients] Boiştean V, et al. **Oftalmologia** 1996 Jul–Sep;40(3):210–3 (Eng. Abstr.) **(Rum)**
[Immunological monitoring of patients with disseminated colorectal cancer under thermochemotherapy] Iaremchuk AIa, et al. **Klin Khir** 1997;(1):35–7 (Eng. Abstr.) **(Rus)**
[5-fluorouracil in the treatment of postoperative glaucoma] Kuljača Z, et al. **Srp Arh Celok Lek** 1996 Jul–Aug; 124(7–8):190–2 (Eng. Abstr.) **(Scc)**
[Changes in the nuclear morphometry in oropharyngeal epidermoid carcinoma after induction chemotherapy] Santa Cruz Ruiz S, et al. **Acta Otorrinolaringol Esp** 1997 Mar; 48(2):93–7 (Eng. Abstr.) **(Spa)**

TOXICITY

Metabolites of 5-fluorouracil, alpha-fluoro-beta-alanine and fluoroacetic acid, directly injure myelinated fibers in tissue culture. Akiba T, et al. **Acta Neuropathol (Berl)** 1996 Jul; 92(1):8–13
New formulation of 5-fluorouracil in microspheres reduces toxicity in mice. Hagiwara A, et al. **Anticancer Drugs** 1996 Sep;7(7):780–4
Modulation by conagenin of inflammatory mediator productions in mice given 5-fluorouracil. Kawatsu M, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):917–22
Differences in sensitivity to developmental toxicants as seen in Xenopus and Pimephales embryos. DeYoung DJ, et al. **Bull Environ Contam Toxicol** 1996 Jan;56(1):143–50
Effects of a nonapeptide thymic hormone on intestinal intraepithelial lymphocytes in mice following administration of 5-fluorouracil. Inagaki-Ohara K, et al. **Cell Immunol** 1996 Jul 10;171(1):30–40
Myelosuppression in the pig (Sus scrofa): uteroferrin reduces the myelosuppressive effects of 5-fluorouracil in young pigs. Laurenz JC, et al. **Comp Biochem Physiol A Physiol** 1997 Apr;116(4):369–77
Fourteen-day oral combination dose toxicity study of CGS 16949 A (aromatase inhibitor) with 5-fluorouracil or tamoxifen in rats. Matsuda A, et al. **J Toxicol Sci** 1997 Feb;22(1):1–24
5-fluorouracil induced cardiotoxicity in albino rats. Kumar S, et al. **Mater Med Pol** 1995 Apr–Jun;27(2):63–6
Determinants of cytotoxicity with prolonged exposure to fluorouracil in human colon cancer cells. Ren Q, et al. **Oncol Res** 1997;9(2):77–88
Potentiation of testicular cytotoxicity by the alkyltransferase inhibitor O6 benzylguanine and the 5-fluorouracil/N-(2-chloroethyl)-N-nitrosourea molecular combination, B.4152. Thompson MJ, et al. **Reprod Toxicol** 1996 Jan–Feb;10(1):71–7
Protection of the small intestinal clonogenic stem cells from radiation-induced damage by pretreatment with interleukin 11 also increases murine survival time. Potten CS. **Stem Cells** 1996 Jul;14(4):452–9
Nucleoside-mediated mitigation of 5-fluorouracil-induced toxicity in synchronized murine erythroleukemic cells. Elstein KH, et al. **Toxicol Appl Pharmacol** 1997 Sep; 146(1):29–39
[Determination of dihydropyrimidine dehydrogenase in the prediction of toxic side effects of 5-fluorouracil] Katona C, et al. **Orv Hetil** 1997 Jul 20;138(29):1843–7 (Eng. Abstr.) **(Hun)**
[Immunotoxic effects of a new antineoplastic agent S-1 in mice--comparison with S-1, UFT and 5-FU] Kouchi Y, et al. **J Toxicol Sci** 1996 Nov;21 Suppl 3:691–701 (Eng. Abstr.) **(Jpn)**
[Reaction of the adrenal medulla to the effect of various extreme factors] Khlusov IA, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):293–5 **(Rus)**

FLUORTRIAMCINOLONE ACETONIDE see **FLUOCINOLONE ACETONIDE**

FLUOSTIGMINE see **ISOFLUROPHATE**

FLUOXETINE

Fluoxetine abuse [letter] Gross R. **J Clin Psychopharmacol** 1996 Dec;16(6):467–8
[Fluoxetine] Gleiter CH, et al. **Dtsch Med Wochenschr** 1997 Apr 11;122(15):481–2 **(Ger)**

ADMINISTRATION & DOSAGE

A placebo-controlled, double-blind study of fluoxetine in severe alcohol dependence: adjunctive pharmacotherapy during and after inpatient treatment. Kabel DI, et al. **Alcohol Clin Exp Res** 1996 Jun;20(4):780–4
Intensive nutritional counselling in bulimia nervosa: a role for supplementation with fluoxetine? Beumont PJ, et al. **Aust N Z J Psychiatry** 1997 Aug;31(4):514–24
Safety and tolerability of combined treatment with moclobemide and SSRIs: a systematic study of 50 patients. Hawley CJ, et al. **Int Clin Psychopharmacol** 1996 Sep; 11(3):187–91
Efficacy of treatment with trazodone in combination with pindolol or fluoxetine in major depression. Maes M, et al. **J Affect Disord** 1996 Dec 16;41(3):201–10
Moclobemide and fluoxetine in treatment of seasonal affective disorder. Partonen T, et al. **J Affect Disord** 1996 Nov 25; 41(2):93–9
Fluoxetine treatment of children with selective mutism: an open trial. Dummit ES 3d, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May; 35(5):615–21
AIDS-related obsessive compulsive disorder: deconditioning based on fluoxetine-induced inhibition of anxiety. Kraus RP, et al. **J Behav Ther Exp Psychiatry** 1996 Mar;27(1):51–6
An investigation into the prescribing patterns of selective serotonin re-uptake inhibitors in South Africa. Truter I, et al. **J Clin Pharm Ther** 1996 Aug;21(4):237–42
Metabolic interaction between fluoxetine and clomipramine: a case report. Balant-Gorgia AE, et al. **Pharmacopsychiatry** 1996 Jan;29(1):38–41
Lower total serum protein, albumin, and beta- and gamma-globulin in major and treatment-resistant depression: effects of antidepressant treatments. Van Hunsel F, et al. **Psychiatry Res** 1996 Dec 20;65(3):159–69
Fluoxetine and norfluoxetine serum concentrations and clinical response in weekly versus daily dosing. Burke WJ, et al. **Psychopharmacol Bull** 1996;32(1):27–32
A double-blind, randomized, fixed-dose trial of fluoxetine vs. amitriptyline in the treatment of major depression complicating Alzheimer's disease. Taragano FE, et al. **Psychosomatics** 1997 May–Jun;38(3):246–52
[Maintenance therapy with 20 mg fluoxetine. Results of an administration study of 1,737 depressed patients] Kasper S, et al. **Wien Klin Wochenschr** 1997 Mar 28;109(6):197–201 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Co-administration of fluoxetine and sumatriptan: the Canadian experience. Joffe RT, et al. **Acta Psychiatr Scand** 1997 Jun;95(6):551–2
Acute cholestasis by fluoxetine [letter] Cosme A, et al. **Am J Gastroenterol** 1996 Nov;91(11):2449–50
Chronic hepatitis related to use of fluoxetine. Johnston DE, et al. **Am J Gastroenterol** 1997 Jul;92(7):1225–6
Fluoxetine discontinuation in elderly dysthymic patients. Devanand DP, et al. **Am J Geriatr Psychiatry** 1997 Winter; 5(1):83–7
Severe neutropenia associated with fluoxetine hydrochloride [letter] Vilinsky FD, et al. **Ann Intern Med** 1997 Oct 1; 127(7):573–4
Heat intolerance induced by antidepressants. Epstein Y, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:553–8
Effects of serotonin reuptake inhibitors on hemostasis. Alderman CP, et al. **Ann Pharmacother** 1996 Nov; 30(11):1232–4
Bruising associated with the use of fluoxetine. Pai VB, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):786–8
Fluoxetine-induced serum sickness-like reaction [letter] Shapiro LE, et al. **Ann Pharmacother** 1997 Jul–Aug; 31(7–8):927
Interaction of serotonin re-uptake inhibitors with perhexiline. Alderman CP, et al. **Aust N Z J Psychiatry** 1997 Aug; 31(4):601–3
Lactation associated with fluoxetine treatment [letter] Arya DK, et al. **Aust N Z J Psychiatry** 1995 Dec;29(4):697
Fluoxetine and the syndrome of inappropriate secretion of antidiuretic hormone (SIADH) [see comments] Burke D, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):295–8 (13 ref.) . Comment in: Aust N Z J Psychiatry 1997 Apr;31(2):306–7.
Fluoxetine-induced SIADH: most likely in the elderly? [letter] Burke D, et al. **Aust N Z J Psychiatry** 1996 Apr; 30(2):299–301
Fluoxetine and involuntary recall of remote memories. Robertson AR. **Aust N Z J Psychiatry** 1997 Feb; 31(1):128–30
Fluoxetine-induced Raynaud's phenomenon. Rudnick A, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1218–21
Speech dysfunction due to trazodone—fluoxetine combination in traumatic brain injury. Patterson DE, et al. **Brain Inj** 1997 Apr;11(4):287–91
First-trimester exposure to fluoxetine (prozac). Does it affect pregnancy outcome? Koren G. **Can Fam Physician** 1996 Jan;42:43–4
Urinary retention with fluoxetine-haloperidol combination in a young patient [letter] Benazzi F. **Can J Psychiatry** 1996 Nov;41(9):606–7
Fluoxetine-imipramine interaction [letter] Leroi I, et al. **Can J Psychiatry** 1996 Jun;41(5):318–9
A new case of fluoxetine-induced mania in poststroke depression [letter] Kulisevsky J, et al. **Clin Neuropharmacol** 1997 Apr;20(2):180–1
Course of psychomotor agitation during pharmacotherapy of depression: analysis from double-blind controlled trials with fluoxetine. Tollefson GD, et al. **Depress Anxiety** 1996–97;4(6):294–311 (55 ref.)
Subhyaloid haemorrhage with fluoxetine [letter] Wilmshurst PT, et al. **Eye** 1996;10 (Pt 1):141
Changes in fine motor retardation in depressed patients treated with fluoxetine. Sabbe B, et al. **J Affect Disord** 1996 Oct 14;40(3):149–57
Is mycosis fungoides exacerbated by fluoxetine? Vermeer MH, et al. **J Am Acad Dermatol** 1996 Oct;35(4):635–6
Fluoxetine-induced SIADH [letter] Schattner A, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1413
Fluoxetine-induced akathisia does not reappear after switch to paroxetine [letter] Bauer M, et al. **J Clin Psychiatry** 1996 Dec;57(12):593–4
Dyskinesia with fluoxetine: tardive or late-onset persistent, acute norfluoxetine dyskinesia? [letter; comment] Lauterbach EC, et al. **J Clin Psychiatry** 1997 Feb; 58(2):85–6. Comment on: J Clin Psychiatry 1996 Feb;57(2):91.
Electrocardiographic effects of fluoxetine and doxepin in patients with major depressive disorder. Baker B, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):15–21
Fluoxetine-related suicidality and muscle aches in a patient with poststroke depression [letter] Liu CY, et al. **J Clin Psychopharmacol** 1996 Dec;16(6):466–7
Fluoxetine and suicidal ideation [letter] Ratan DA. **J Clin Psychopharmacol** 1997 Feb;17(1):61–2
Birth outcomes in pregnant women taking fluoxetine. Johnson GL. **J Fam Pract** 1997 Jan;44(1):32
Combined pharmacotherapy or polypharmacy? Levy F, et al. **J Paediatr Child Health** 1996 Jun;32(3):265–6
Dangerous interaction with nefazodone added to fluoxetine, desipramine, venlafaxine, valproate and clonazepam combination therapy [letter] Benazzi F. **J Psychopharmacol (Oxf)** 1997;11(2):190–1
Intermittent amantadine for fluoxetine-induced anorgasmia. Balon R. **J Sex Marital Ther** 1996 Winter;22(4):290–2
Syndrome of inappropriate secretion of antidiuretic hormone in two elderly women with elevated serum fluoxetine. Girault C, et al. **J Toxicol Clin Toxicol** 1997;35(1):93–5
Fatality associated with combined fluoxetine-amitriptyline therapy [letter] Preskorn SH, et al. **JAMA** 1997 Jun 4; 277(21):1682
Dangers of fluoxetine [letter] [see comments] Bourguignon RP. **Lancet** 1997 Jan 18;349(9046):214. Comment in: Lancet 1997 Mar 15;349(9054):809.
Dangers of fluoxetine [letter; comment] Judge R. **Lancet** 1997 Mar 15;349(9054):809. Comment on: Lancet 1997 Jan 18;349(9046):214.
Complex movement disorders induced by fluoxetine. Bharucha KJ, et al. **Mov Disord** 1996 May;11(3):324–6
Acute reversible myoclonic encephalopathy associated with fluoxetine therapy. Ghika-Schmid F, et al. **Mov Disord** 1997 Jul;12(4):622–3
Fluoxetine-induced movement disorders and deficient CYP2D6 enzyme activity [letter] Perucca E, et al. **Mov Disord** 1997 Jul;12(4):624–5
Birth outcomes in pregnant women taking fluoxetine [letter; comment] Cohen LS, et al. **N Engl J Med** 1997 Mar 20; 336(12):872; discussion 873. Comment on: N Engl J Med 1996 Oct 3;335(14):1010–5.
Birth outcomes in pregnant women taking fluoxetine [letter; comment] Goldstein DJ, et al. **N Engl J Med** 1997 Mar 20;336(12):872–3; discussion 873. Comment on: N Engl J Med 1996 Oct 3;335(14):1010–5.
Fluoxetine and seizures [letter; comment] Walker MC, et al. **Neurology** 1996 Sep;47(3):850. Comment on: Neurology 1995 Oct;45(10):1926–7.
Effects of first-trimester fluoxetine exposure on the newborn. Goldstein DJ, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):713–8
Metabolic interaction between fluoxetine and clomipramine: a case report. Balant-Gorgia AE, et al. **Pharmacopsychiatry** 1996 Jan;29(1):38–41
Serotonin syndrome with moclobemide-fluoxetine combination [letter] Benazzi F. **Pharmacopsychiatry** 1996 Jul;29(4):162
Fluoxetine and aggressive behaviour [letter] Friedman EH. **Pharmacopsychiatry** 1996 May;29(3):121
Warfarin-fluoxetine and diazepam-fluoxetine interaction. Dent LA, et al. **Pharmacotherapy** 1997 Jan–Feb;17(1):170–2

FLUOXETINE

Tardive dyskinesia associated with fluoxetine. Dubovsky SL, et al. **Psychiatr Serv** 1996 Sep;47(9):991–3

Serotonin reuptake inhibitor–related extrapyramidal side effects in two patients with cerebral palsy [letter] Rone LA, et al. **Psychosomatics** 1996 Mar–Apr;37(2):165–6

The safety of fluoxetine during pregnancy and lactation. Nulman I, et al. **Teratology** 1996 May;53(5):304–8 (33 ref.)

Pharmacokinetics of fluoxetine [letter] Young AH, et al. **Trends Pharmacol Sci** 1996 Nov;17(11):400

Hypoglycemia associated with the use of fluoxetine. Deeg MA, et al. **West J Med** 1996 Mar;164(3):262

[Fluoxetine, akathisia and suicide] Lançon C, et al. **Encephale** 1997 May–Jun;23(3):218–23 (46 ref.) (Eng. Abstr.) **(Fre)**

[Sexual dysfunction secondary to SSRIs. A comparative analysis in 308 patients] Montejo AI, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Nov–Dec;24(6):311–21 (Eng. Abstr.) **(Spa)**

[Suggestive episodes of hypoglycemia related to fluoxetine (letter) (see comments)] Fernández López MI, et al. **Aten Primaria** 1996 Dec;18(10):581. Comment in: Aten Primaria 1997 May 15;19(8):442, 444–5. **(Spa)**

[Adverse reactions and drugs: the wrong title and content (letter; comment)] Palop Larrea V, et al. **Aten Primaria** 1997 May 15;19(8):442, 444–5. Comment on: Aten Primaria 1996 Dec;18(10):581. **(Spa)**

[Exacerbation of spasticity induced by serotonin reuptake inhibitors. Letter] del Real MA, et al. **Neurologia** 1996 Aug–Sep;11(7):272 **(Spa)**

ANALOGS & DERIVATIVES

Fluoxetine and norfluoxetine plasma concentrations in major depression: a multicenter study. Amsterdam JD, et al. **Am J Psychiatry** 1997 Jul;154(7):963–9

Simultaneous determination of plasma levels of fluvoxamine and of the enantiomers of fluoxetine and norfluoxetine by gas chromatography–mass spectrometry. Eap CB, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):265–72

Direct analysis of fluoxetine and norfluoxetine in plasma by gas chromatography with nitrogen–phosphorus detector. Fontanille P, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):337–43

Inhibition of human cytochrome P450–3A isoforms by fluoxetine and norfluoxetine: in vitro and in vivo studies. Greenblatt DJ, et al. **J Clin Pharmacol** 1996 Sep;36(9):792–8 (51 ref.)

Midazolam hydroxylation by human liver microsomes in vitro: inhibition by fluoxetine, norfluoxetine, and by azole antifungal agents. von Moltke LL, et al. **J Clin Pharmacol** 1996 Sep;36(9):783–91

Dyskinesia with fluoxetine: tardive or late–onset persistent, acute norfluoxetine dyskinesia? [letter; comment] Lauterbach EC, et al. **J Clin Psychiatry** 1997 Feb; 58(2):85–6. Comment on: J Clin Psychiatry 1996 Feb;57(2):91.

Lack of change in fluoxetine and norfluoxetine kinetics when switching from fluoxetine to paroxetine. Dominguez RA, et al. **J Clin Psychopharmacol** 1996 Aug;16(4):320–3

Single pump column switching technique employing a flow gradient and wavelength programmed fluorescence for simultaneous monitoring of serotonin, fluoxetine and norfluoxetine in rat brain microdialysate. Ramaiya A, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):729–38

Inhibition of rat brain monoamine oxidase enzymes by fluoxetine and norfluoxetine. Holt A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):17–24

Gender–related differences exist in cortical [3H]nisoxetine binding and are not affected by prenatal morphine exposure. Vathy I, et al. **Neuroscience** 1997 Jan;76(2):331–4

Fluoxetine and norfluoxetine serum concentrations and clinical response in weekly versus daily dosing. Burke WJ, et al. **Psychopharmacol Bull** 1996;32(1):27–32

Interactions of selective serotonin reuptake inhibitors with the serotonin 5–HT2c receptor. Pälvimäki EP, et al. **Psychopharmacology (Berl)** 1996 Aug;126(3):234–40

ANALYSIS

Single pump column switching technique employing a flow gradient and wavelength programmed fluorescence for simultaneous monitoring of serotonin, fluoxetine and norfluoxetine in rat brain microdialysate. Ramaiya A, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):729–38

BLOOD

Fluoxetine and norfluoxetine plasma concentrations in major depression: a multicenter study. Amsterdam JD, et al. **Am J Psychiatry** 1997 Jul;154(7):963–9

Are fluoxetine plasma levels related to outcome in obsessive–compulsive disorder? Koran LM, et al. **Am J Psychiatry** 1996 Nov;153(11):1450–4

Simultaneous determination of plasma levels of fluvoxamine and of the enantiomers of fluoxetine and norfluoxetine by gas chromatography–mass spectrometry. Eap CB, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):265–72

Direct analysis of fluoxetine and norfluoxetine in plasma by gas chromatography with nitrogen–phosphorus detection. Fontanille P, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):337–43

Fluoxetine and norfluoxetine serum concentrations and clinical response in weekly versus daily dosing. Burke WJ, et al. **Psychopharmacol Bull** 1996;32(1):27–32

CHEMICAL SYNTHESIS

An efficient chemoenzymatic route to the antidepressants (R)–fluoxetine and (R)–tomoxetine. Bracher F, et al. **Bioorg Med Chem** 1996 Jun;4(6):877–80

CHEMISTRY

Adsorption of fluoxetine HCl by activated charcoal. Cooney DO, et al. **J Pharm Sci** 1997 May;86(5):642–4

DIAGNOSTIC USE

Fluoxetine's effect on biochemical screening for pheochromocytoma [letter] Sheps SG, et al. **Am J Hypertens** 1996 Jan;9(1):97–8

ECONOMICS

Study addresses question of preferred initial therapy for depression [news] **Am J Health Syst Pharm** 1996 Sep 1; 53(17):1994

Antidepressant pharmacotherapy: economic evaluation of fluoxetine, paroxetine and sertraline in a health maintenance organization [see comments] Sclar DA, et al. **J Int Med Res** 1995 Nov–Dec;23(6):395–412. Comment in: J Int Med Res 1997 Jan–Feb;25(1):45–51.

METABOLISM

Determination of D–fenfluramine, D–norfenfluramine and fluoxetine in plasma, brain tissue and brain microdialysate using high–performance liquid chromatography after precolumn derivatization with dansyl chloride. Clausing P, et al. **J Chromatogr B Biomed Appl** 1997 May 9; 692(2):419–26

In vitro adsorption study of fluoxetine onto activated charcoal at gastric and intestinal pH using high performance liquid chromatography with fluorescence detector. Tsitoura A, et al. **J Toxicol Clin Toxicol** 1997; 35(3):269–76

PHARMACOKINETICS

Antidepressants and breast–feeding [letter; comment] Ito S, et al. **Am J Psychiatry** 1997 Aug;154(8):1174. Comment on: Am J Psychiatry 1996 Sep;153(9):1132–7.

The disposition of fluoxetine but not sertraline is altered in poor metabolizers of debrisoquin. Hamelin BA, et al. **Clin Pharmacol Ther** 1996 Nov;60(5):512–21

The effect of co–administration of zolpidem with fluoxetine: pharmacokinetics and pharmacodynamics. Piergies AA, et al. **Int J Clin Pharmacol Ther** 1996 Apr;34(4):178–83

Fluoxetine distribution in human milk [letter] Duffull SB, et al. **J Clin Pharmacol** 1996 Nov;36(11):1078–9

Excretion of fluoxetine and its metabolite, norfluoxetine, in human breast milk. Taddio A, et al. **J Clin Pharmacol** 1996 Jan;36(1):42–7

Lack of change in fluoxetine and norfluoxetine kinetics when switching from fluoxetine to paroxetine. Dominguez RA, et al. **J Clin Psychopharmacol** 1996 Aug;16(4):320–3

Interaction between fluoxetine and haloperidol: pharmacckinetic and clinical implications. Avenoso A, et al. **Pharmacol Res** 1997 Apr;35(4):335–9

Fluoxetine addition to methadone in addicts: pharmacokinetic aspects. Bertschy G, et al. **Ther Drug Monit** 1996 Oct;18(5):570–2

Pharmacokinetics of fluoxetine [letter] Young AH, et al. **Trends Pharmacol Sci** 1996 Nov;17(11):400

PHARMACOLOGY

Effects on nociception of the Ca2+ and 5–HT antagonist dotarizine and other 5–HT receptor agonists and antagonists. Belcheva S, et al. **Acta Physiol Pharmacol Bulg** 1995;21(4):93–8

Propofol, fluoxetine and spontaneous movement [letter] Armstrong TS, et al. **Anaesthesia** 1997 Aug;52(8):809–10

Serotonin diminishes aggression by suppressing the activity of the vasopressin system. Ferris CF. **Ann N Y Acad Sci** 1996 Sep 20;794:98–103

Fluoxetine effects on serotonin function and aggressive behavior. Fuller RW. **Ann N Y Acad Sci** 1996 Sep 20; 794:90–7

Comment: delirium probably induced by clarithromycin in a patient receiving fluoxetine [letter; comment] Tracy TS, et al. **Ann Pharmacother** 1996 Oct;30(10):1199–200. Comment on: Ann Pharmacother 1995 May;29(5):486–8.

Effect of fluoxetine on food intake of humans living in a residential laboratory. Foltin RW, et al. **Appetite** 1996 Oct; 27(2):165–81

SSRI antidepressants and SIADH [letter; comment] Ayonrinde OT, et al. **Aust N Z J Psychiatry** 1997 Apr; 31(2):306–7. Comment on: Aust N Z J Psychiatry 1996 Apr;30(2):295–8.

Behavioral changes in Anolis carolinensis following injection with fluoxetine. Deckel AW. **Behav Brain Res** 1996 Aug; 78(2):175–82

Identification of hypothalamic transcripts upregulated by antidepressants. Wong ML, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):275–9

Effects of fluoxetine administration on mood response to tryptophan depletion in healthy subjects. Barr LC, et al. **Biol Psychiatry** 1997 May 1;41(9):949–54

Fluoxetine treatment alters leukocyte trafficking in the intrathecal compartment of the young primate. Coe CL, et al. **Biol Psychiatry** 1996 Sep 1;40(5):361–7

The anticonvulsant action of fluoxetine in substantia nigra is dependent upon endogenous serotonin. Pasini A, et al. **Brain Res** 1996 Jun 10;724(1):84–8

Effects of fluoxetine and olfactory bulbectomy on mouse circadian activity rhythms. Possidente B, et al. **Brain Res** 1996 Mar 25;713(1–2):108–13

Influence of fluoxetine and p–chloroamphetamine on the somatostatin receptor–adenylyl cyclase system in the rat frontoparietal cortex. Muñoz–Acedo G, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):117–24

Greater effects of fluoxetine and its combination with (–)–pindolol in elevating hypothalamic serotonin in rats during dark hours. Dreshfield LJ, et al. **Chin J Physiol** 1997 Jun 30;40(2):57–61

Diurnal effects of fluoxetine and naloxone on the human hypothalamic–pituitary–adrenal axis. Torpy DJ, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):421–3

Comparative sexual side effects of bupropion, fluoxetine, paroxetine, and sertraline. Modell JG, et al. **Clin Pharmacol Ther** 1997 Apr;61(4):476–87

Sleep deprivation hastens the antidepressant action of fluoxetine. Benedetti F, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(2):100–3

Behavioural sensitization of mesolimbic dopamine D2 receptors in chronic fluoxetine–treated rats. Collu M, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):123–7

Methamphetamine–induced decrease in tryptophan hydroxylase activity: role of 5–hydroxytryptaminergic transporters. Fleckenstein AE, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):179–86

Increased noradrenaline efflux induced by local infusion of fluoxetine in the rat frontal cortex. Hughes ZA, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):83–90

An investigation of the mechanism responsible for fluoxetine–induced hypophagia in rats. Lightowler S, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):137–43

Potentiation of fluoxetine–induced penile erections by combined blockade of 5–HT1A and 5–HT1B receptors. Millan MJ, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):R11–3

Prophylactic effect of serotonin uptake inhibitors against motion sickness in Suncus murinus. Okada F, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):33–5

Electrophysiological effects of fluoxetine and duloxetine in the dorsal raphe nucleus and hippocampus. Smith JE, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):69–73

Neither intranigral fluoxetine nor 5,7–dihydroxytryptamine alter audiogenic seizures in genetically epilepsy–prone rats. Statnick M, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1–3):93–102

Effects of fluoxetine hydrochloride and fluvoxamine maleate on different preparations of isolated guinea pig and rat organ tissues. Velasco A, et al. **Gen Pharmacol** 1997 Apr; 28(4):509–12

The effect of co–administration of zolpidem with fluoxetine: pharmacokinetics and pharmacodynamics. Piergies AA, et al. **Int J Clin Pharmacol Ther** 1996 Apr;34(4):178–83

Questioning the efficacy of psychotropic drugs [letter; comment] Mobley TE. **J Am Vet Med Assoc** 1996 Dec 15;209(12):1995–6. Comment on: J Am Vet Med Assoc 1996 Oct 15;209(8):1470–4.

Use of fluoxetine for the treatment of stereotypical pacing behavior in a captive polar bear [see comments] Poulsen EM, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1470–4 . Comment in: J Am Vet Med Assoc 1996 Dec 15;209(12):1995–6.

Inhibition of human cytochrome P450–3A isoforms by fluoxetine and norfluoxetine: in vitro and in vivo studies. Greenblatt DJ, et al. **J Clin Pharmacol** 1996 Sep;36(9):792–8 (51 ref.)

Midazolam hydroxylation by human liver microsomes in vitro: inhibition by fluoxetine, norfluoxetine, and by azole antifungal agents. von Moltke LL, et al. **J Clin Pharmacol** 1996 Sep;36(9):783–91

Exercise–induced orgasms associated with fluoxetine treatment of depression [letter] Ellison JM. **J Clin Psychiatry** 1996 Dec;57(12):596–7

The synergistic effect of fluoxetine on the locomotor hyperactivity induced by MK–801, a non–competitive NMDA receptor antagonist. Maj J, et al. **J Neural Transm** 1996;103(1–2):131–46

Potentiation of the fluoxetine–induced increase in dialysate levels of serotonin (5–HT) in the frontal cortex of freely moving rats by combined blockade of 5–HT1A and 5–HT1B receptors with WAY 100,635 and GR 127,935. Gobert A, et al. **J Neurochem** 1997 Mar;68(3):1159–63

Influence of fluoxetine on regional serotonin synthesis in the rat brain. Mück–Seler D, et al. **J Neurochem** 1996 Dec; 67(6):2434–42

On the in–vivo modulation of neostriatal dopamine release by fluoxetine and 5–hydroxy–L–tryptophan in conscious rats. Li XM, et al. **J Pharm Pharmacol** 1996 Aug; 48(8):825–8

Fluoxetine selectively alters 5–hydroxytryptamine1A and gamma–aminobutyric acidB receptor–mediated hyperpolarization in area CA1, but not area CA3, hippocampal pyramidal cells. Beck SG, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):115–22

Effect of prenatal fluoxetine (Prozac) exposure on brain serotonin neurons in prepubescent and adult male rat

offspring. Cabrera-Vera TM, et al.
J Pharmacol Exp Ther 1997 Jan;280(1):138-45

Interaction between the forced swimming test and fluoxetine treatment on extracellular 5-hydroxytryptamine and 5-hydroxyindoleacetic acid in the rat. Kirby LG, et al.
J Pharmacol Exp Ther 1997 Aug;282(2):967-76

Chronic fluoxetine induces a gradual desensitization of 5-HT1A receptors: reductions in hypothalamic and midbrain Gi and G(o) proteins and in neuroendocrine responses to a 5-HT1A agonist. Li Q, et al.
J Pharmacol Exp Ther 1996 Nov;279(2):1035-42

Platelet I1-imidazoline binding sites are decreased by two dissimilar antidepressant agents in depressed patients. Piletz JE, et al. **J Psychiatr Res** 1996 May-Jun;30(3):169-84

[3H]8-OH-DPAT binding and serotonin content in rat cerebral cortex after acute fluoxetine, desipramine, or pargyline. Carli M, et al. **J Psychiatry Neurosci** 1996 May; 21(2):114-22

Interactions between different antidepressants and morphine alter gastrointestinal transit in mice. Backer MM, et al.
Life Sci 1997;61(9):PL109-13

Potentiation of LSD-induced stimulus control by fluoxetine in the rat. Fiorella D, et al. **Life Sci** 1996;59(18):PL283-7

Effects of fluoxetine on the immunosuppressive response to stress in mice. Freire-Garabal M, et al. **Life Sci** 1997; 60(26):PL403-13

Neurodevelopment of children exposed in utero to antidepressant drugs. Nulman I, et al. **N Engl J Med** 1997 Jan 23;336(4):258-62

Experimental anxiety and antidepressant drugs: the effects of moclobemide, a selective reversible MAO-A inhibitor, fluoxetine and imipramine in mice. de Angelis L.
Naunyn Schmiedebergs Arch Pharmacol 1996 Aug-Sep; 354(3):379-83

Effects of chronic treatment with fluoxetine and citalopram on 5-HT uptake, 5-HT1B autoreceptors, 5-HT3 and 5-HT4 receptors in rats. Gobbi M, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 Jul; 356(1):22-8

Inhibition of rat brain monoamine oxidase enzymes by fluoxetine and norfluoxetine. Holt A, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 Jun; 354(1):17-24

Regional differences in the effect of the combined treatment of WAY 100635 and fluoxetine: an in vivo microdialysis study. Malagié I, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 Dec; 354(6):785-90

Functional regulation by dopamine receptors of serotonin release from the rat hippocampus: in vivo microdialysis study. Matsumoto M, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 May; 353(6):621-9

Enhancement of fluoxetine-dependent increase of extracellular serotonin (5-HT) levels by (-)-pindolol, an antagonist at 5-HT1A receptors. Dreshfield LJ, et al.
Neurochem Res 1996 May;21(5):557-62

RU 486 blocks and fluoxetine augments progesterone-induced prolactin secretion in monkeys. Pecins-Thompson M, et al. **Neuroendocrinology** 1997 May; 65(5):335-43

Modulation of the discriminative stimulus properties of cocaine: comparison of the effects of fluoxetine with 5-HT1A and 5-HT1B receptor agonists. Callahan PM, et al. **Neuropharmacology** 1997 Mar;36(3):373-81

Fluoxetine-induced sleep disturbance in depressed patients. Dorsey CM, et al. **Neuropsychopharmacology** 1996 Jun; 14(6):437-42

The influence of fluoxetine on aggressive behavior [see comments] Fuller RW. **Neuropsychopharmacology** 1996 Feb;14(2):77-81 (36 ref.). Comment in: Neuropsychopharmacology 1997 May;16(5):373-4.

Chronic citalopram and fluoxetine treatments upregulate 5-HT2c receptors in the rat choroid plexus. Laakso A, et al. **Neuropsychopharmacology** 1996 Aug;15(2):143-51

Chronic fluoxetine reduces serotonin transporter mRNA and 5-HT1B mRNA in a sequential manner in the rat dorsal raphe nucleus. Neumaier JF, et al.
Neuropsychopharmacology 1996 Nov;15(5):515-22

An analysis of the effects of acute and chronic fluoxetine on extracellular norepinephrine in the rat hippocampus during stress. Page ME, et al. **Neuropsychopharmacology** 1997 Jun;16(6):419-25

Fluoxetine and aggression [letter; comment] Troisi A.
Neuropsychopharmacology 1997 May;16(5):373-4. Comment on: Neuropsychopharmacology 1996 Feb;14(2):77-81.

Modification of acoustic startle reactivity by cocaine administration during the postnatal period: comparison with a specific serotonin reuptake inhibitor. Dow-Edwards DL. **Neurotoxicol Teratol** 1996 May-Jun;18(3):289-96

The effects of mexiletine, desipramine and fluoxetine in rat models involving central sensitization. Jett MF, et al.
Pain 1997 Jan;69(1-2):161-9

Neuropharmacological effects of low and high doses of repeated oral dexfenfluramine in rats: a comparison with fluoxetine. Caccia S, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):851-6

Fluoxetine alters the effects of cocaine on vigilance task performance of rats. Grilly DM, et al.
Pharmacol Biochem Behav 1997 Mar;56(3):515-22

Metergoline antagonizes fluoxetine-induced suppression of food intake but not changes in the behavioural satiety sequence. Halford JC, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):745-51

Fluoxetine reduces saccharin-induced elevation of fluid intake in alcohol-preferring Fawn-Hooded rats. Kampov-Polevoy AB, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):51-4

Conditioned taste aversion induced by fluoxetine. Prendergast MA, et al. **Physiol Behav** 1996 Jul;60(1):311-5

Anxiolytic and memory improving activity of fluoxetine. Nowakowska E, et al. **Pol J Pharmacol** 1996 May-Jun; 48(3):255-60

Blockage of muscle and neuronal nicotinic acetylcholine receptors by fluoxetine (Prozac). García-Colunga J, et al.
Proc Natl Acad Sci U S A 1997 Mar 4;94(5):2041-4

Blockage of 5HT2C serotonin receptors by fluoxetine (Prozac). Ni YG, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2036-40

Fluoxetine-elicited changes in brain neurosteroid content measured by negative ion mass fragmentography. Uzunov DP, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12599-604

A pharmacological analysis of serotonergic receptors: effects of their activation of blockade in learning. Meneses A, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb; 21(2):273-96 (121 ref.)

Dopaminergic and serotonergic properties of fluoxetine. Simon B, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1997 Jan; 21(1):169-81

Substitution of the selective serotonin reuptake inhibitors fluoxetine and paroxetine for the discriminative stimulus effects of ethanol in rats. Maurel S, et al.
Psychopharmacology (Berl) 1997 Apr;130(4):404-6

Reflexes of the cutaneous microcirculation in amitriptyline and in fluoxetine treated patients. Mück-Weymann M, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):241-4

Interactions of selective serotonin reuptake inhibitors with the serotonin 5-HT2c receptor. Pälvimäki EP, et al.
Psychopharmacology (Berl) 1996 Aug;126(3):234-40

Chronic desipramine and fluoxetine differentially affect extracellular dopamine in the rat prefrontal cortex. Tanda G, et al. **Psychopharmacology (Berl)** 1996 Sep;127(2):83-7

Effects of fluoxetine and maprotiline on functional recovery in poststroke hemiplegic patients undergoing rehabilitation therapy [letter; comment] Boyeson MG. **Stroke** 1996 Nov; 27(11):2145-6. Comment on: Stroke 1996 Jul;27(7):1211-4.

Effect of acute and chronic fluoxetine on extracellular dopamine levels in the caudate-putamen and nucleus accumbens of rat. Clark RN, et al. **Synapse** 1996 Jul; 23(3):125-31

Fluoxetine-induced conditioned place preference: a preliminary study. Collu M, et al. **Synapse** 1997 Mar; 25(3):309-11

Local cerebral metabolic effects of the novel cocaine analog, WF-31: comparisons to fluoxetine. Porrino LJ, et al.
Synapse 1997 Sep;27(1):26-35

Drug interaction potential of fluoxetine, sertraline, and paroxetine in four state psychiatric hospital populations [letter] Markowitz JS, et al. **Ther Drug Monit** 1997 Apr; 19(2):244-5

Appetite suppression by commonly used drugs depends on 5-HT receptors but not on 5-HT availability [see comments] Curzon G, et al. **Trends Pharmacol Sci** 1997 Jan;18(1):21-5 (51 ref.). Comment in: Trends Pharmacol Sci 1997 Jun;18(6):191-2.

An indirect action for fluoxetine on the dopamine neurotransmitter system [letter] Esposito E.
Trends Pharmacol Sci 1996 Nov;17(11):400-2

Prozac: panacea or puzzle? Stanford SC.
Trends Pharmacol Sci 1996 Apr;17(4):150-4 (33 ref.)

[Biological mechanisms of drug-resistant depression] Suwalska A, et al. **Psychiatr Pol** 1996 Sep-Oct;30(5):713-29 (56 ref.) (Eng. Abstr.) **(Pol)**

[A comparative pharmacological study of the serotoninergic antidepressants tetrindole and fluoxetin] Andreeva NI, et al. **Eksp Klin Farmakol** 1996 Jul-Aug;59(4):5-7 (Eng. Abstr.) **(Rus)**

POISONING

Fluoxetine-induced cardiotoxicity with response to bicarbonate therapy. Graudins A, et al.
Am J Emerg Med 1997 Sep;15(5):501-3

Fluoxetine versus tricyclic antidepressants: a prospective multicenter study of antidepressant drug overdoses. The Antidepressant Study Group. Phillips S, et al.
J Emerg Med 1997 Jul-Aug;15(4):439-45

[A case report. Fatal case of acute fluoxetine poisoning] Druid H, et al. **Lakartidningen** 1996 Nov 13;93(46):4149-50 **(Swe)**

THERAPEUTIC USE

The effect of fluoxetine on anxiety and depression symptoms in cancer patients. Razavi D, et al.
Acta Psychiatr Scand 1996 Sep;94(3):205-10

Tryptophan and epilepsy. Lunardi G, et al.
Adv Exp Med Biol 1996;398:101-2

Fluoxetine treatment seems to reduce the beneficial effects of cognitive-behavioral therapy in type B alcoholics. Kranzler HR, et al. **Alcohol Clin Exp Res** 1996 Dec; 20(9):1534-41

A double-blind, placebo-controlled trial of the effect of fluoxetine on dietary intake in overweight women with and without binge-eating disorder. Greeno CG, et al.
Am J Clin Nutr 1996 Sep;64(3):267-73

Estrogen replacement and response to fluoxetine in a multicenter geriatric depression trial. Fluoxetine Collaborative Study Group. Schneider LS, et al.
Am J Geriatr Psychiatry 1997 Spring;5(2):97-106

Fluoxetine and norfluoxetine plasma concentrations in major depression: a multicenter study. Amsterdam JD, et al.
Am J Psychiatry 1997 Jul;154(7):963-9

Effect of pindolol in hastening response to fluoxetine in the treatment of major depression: a double-blind, placebo-controlled trial. Berman RM, et al.
Am J Psychiatry 1997 Jan;154(1):37-43

Fluoxetine augmentation of clozapine treatment in patients with schizophrenia. Buchanan RW, et al.
Am J Psychiatry 1996 Dec;153(12):1625-7

Folate, vitamin B12, and homocysteine in major depressive disorder. Fava M, et al. **Am J Psychiatry** 1997 Mar; 154(3):426-8

Predicting nonresponsiveness to depression treatments [letter; comment] Feiner NF. **Am J Psychiatry** 1996 Nov; 153(11):1508-9. Comment on: Am J Psychiatry 1995 Oct;152(10):1500-3.

Placebo-controlled trial of fluoxetine and phenelzine for obsessive-compulsive disorder. Jenike MA, et al.
Am J Psychiatry 1997 Sep;154(9):1261-4

Are fluoxetine plasma levels related to outcome in obsessive-compulsive disorder? Koran LM, et al.
Am J Psychiatry 1996 Nov;153(11):1450-4

Use of fluoxetine for obsessive-compulsive behavior in adults with autism [letter] Koshes RJ. **Am J Psychiatry** 1997 Apr; 154(4):578

Medication and psychotherapy in the treatment of bulimia nervosa. Walsh BT, et al. **Am J Psychiatry** 1997 Apr; 154(4):523-31

Fluoxetine treatment of anger attacks: a replication study. Fava M, et al. **Ann Clin Psychiatry** 1996 Mar;8(1):7-10

L-Deprenyl augmentation of fluoxetine in a patient with Huntington's disease. Patel SV, et al.
Ann Clin Psychiatry 1996 Mar;8(1):23-6

A clinical approach to the pharmacotherapy of aggression in children and adolescents. Connor DF, et al.
Ann N Y Acad Sci 1996 Sep 20;794:290-307 (132 ref.)

Fluoxetine prescribing in a South African patient population [letter] Truter I, et al. **Ann Pharmacother** 1996 Nov; 30(11):1340

Double-blind pilot trial of desipramine versus fluoxetine in panic patients. Bystritsky A, et al. **Anxiety** 1994-95; 1(6):287-90

Treatment of social phobia with fluoxetine. Perugi G, et al.
Anxiety 1994-95;1(6):282-6

Clinical improvement with fluoxetine therapy and noradrenergic function in patients with panic disorder. Coplan JD, et al. **Arch Gen Psychiatry** 1997 Jul;54(7):643-8

Fluoxetine in depressed alcoholics. A double-blind, placebo-controlled trial [see comments] Cornelius JR, et al. **Arch Gen Psychiatry** 1997 Aug;54(8):700-5. Comment in: Arch Gen Psychiatry 1997 Aug;54(8):691-4.

Fluoxetine is a safer alternative to fenfluramine in the medical treatment of obesity [letter] Anchors M.
Arch Intern Med 1997 Jun 9;157(11):1270

A randomized, double-blind crossover trial of fluoxetine and amitriptyline in the treatment of fibromyalgia. Goldenberg D, et al. **Arthritis Rheum** 1996 Nov;39(11):1852-9

Fluoxetine: a treatment option for severe symptomatic postural hypotension in a diabetic haemodialysis patient [letter] Chin CK, et al. **Aust N Z J Med** 1996 Oct;26(5):714

Effects of selective serotonin reuptake inhibitors on platelet serotonin parameters in major depressive disorder. Bakish D, et al. **Biol Psychiatry** 1997 Jan 15;41(2):184-90

Plasma free 3-methoxy-4-hydroxyphenylglycol predicts response to fluoxetine. Ko HC, et al. **Biol Psychiatry** 1997 Apr 1;41(7):774-81

Are neurovegetative symptoms stable in relapsing or recurrent atypical depressive episodes? Nierenberg AA, et al. **Biol Psychiatry** 1996 Oct 15;40(8):691-6

Fluoxetine versus phenelzine in atypical depression. Pande AC, et al. **Biol Psychiatry** 1996 Nov 15;40(10):1017-20

Basal ganglia choline levels in depression and response to fluoxetine treatment: an in vivo proton magnetic resonance spectroscopy study. Renshaw PF, et al. **Biol Psychiatry** 1997 Apr 15;41(8):837-43

Are study dropouts different from completers? Tedlow JR, et al. **Biol Psychiatry** 1996 Oct 1;40(7):668-70

A controlled study of fluoxetine and cognitive-behavioural counselling in the treatment of postnatal depression [see comments] Appleby L, et al. **BMJ** 1997 Mar 29; 314(7085):932-6. Comment in: BMJ 1997 Jul 12;315(7100):122.

Controlled efficacy study of fluoxetine in dysthymia. Vanelle JM, et al. **Br J Psychiatry** 1997 Apr;170:345-50

Freud, Prozac, and the human condition [letter] Khouzam HR. **Can J Psychiatry** 1996 Apr;41(3):195

Cognitive therapy versus fluoxetine in the treatment of dysthymic disorder. Dunner DL, et al. **Depression** 1996; 4(1):34-41

A controlled trial of fluoxetine in crack cocaine dependence. Batki SL, et al. **Drug Alcohol Depend** 1996 Jun;41(2):137-42

Predicting factors for absenteeism in patients with major depressive disorders. Souêtre E, et al. **Eur J Epidemiol** 1997

FLUOXETINE

Jan;13(1):87–93

Fluoxetine in the treatment of premenstrual syndrome. Ozeren S, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun;73(2):167–70

Neither intranigral fluoxetine nor 5,7–dihydroxytryptamine alter audiogenic seizures in genetically epilepsy–prone rats. Statnick M, et al. **Eur J Pharmacol** 1996 Mar 28; 299(1–3):93–102

Do noradrenaline and serotonin differentially affect social motivation and behaviour? Dubini A, et al. **Eur Neuropsychopharmacol** 1997 Apr;7 Suppl 1:S49–55; discussion S71–3

Double–blind comparison of fluoxetine versus clomipramine in the treatment of obsessive compulsive disorder. López–Ibor JJ Jr, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):111–8

Depression: making the diagnosis and using SSRIs in the older patient. Reynolds CF 3rd. **Geriatrics** 1996 Oct; 51(10):28–34 (25 ref.)

The eight–item treatment–outcome post–traumatic stress disorder scale: a brief measure to assess treatment outcome in post–traumatic stress disorder. Davidson JR, et al. **Int Clin Psychopharmacol** 1997 Jan;12(1):41–5

Effects of fluoxetine at antidepressant doses on short–term outcome of detoxified alcoholics. Janiri L, et al. **Int Clin Psychopharmacol** 1996 Jun;11(2):109–17

Citalopram versus fluoxetine: a double–blind, controlled, multicentre, phase III trial in patients with unipolar major depression treated in general practice. Patris M, et al. **Int Clin Psychopharmacol** 1996 Jun;11(2):129–36

Serotonergic agents in the treatment of hypothalamic obesity syndrome: a case report. Jordaan GP, et al. **Int J Eat Disord** 1996 Jul;20(1):111–3

Placebo–controlled treatment trial of depression in elderly physically ill patients. Evans M, et al. **Int J Geriatr Psychiatry** 1997 Aug;12(8):817–24

Fluoxetine improves insulin sensitivity in obese patients with non–insulin–dependent diabetes mellitus independently of weight loss. Maheux P, et al. **Int J Obes Relat Metab Disord** 1997 Feb;21(2):97–102

Serzone superior to Prozac [news] **Ir Med J** 1997 Jun–Jul; 90(4):156

TRH stimulation test as a predictor of acute and long–term antidepressant response in major depression. Amsterdam JD, et al. **J Affect Disord** 1996 Jun 5;38(2–3):165–72

Depressive retardation and treatment with fluoxetine: assessment of the motor component. Sabbe B, et al. **J Affect Disord** 1997 Mar;43(1):53–61

SSRI for body dysmorphic disorder [letter] Heimann SW. **J Am Acad Child Adolesc Psychiatry** 1997 Jul;36(7):868

SSRI and EPS with fluoxetine [letter] Jones–Fearing KB. **J Am Acad Child Adolesc Psychiatry** 1996 Sep;35(9):1107–8

Impact of physical illness on quality of life and antidepressant response in geriatric major depression. Fluoxetine Collaborative Study Group. Small GW, et al. **J Am Geriatr Soc** 1996 Oct;44(10):1220–5

Use of fluoxetine to treat dominance aggression in dogs. Dodman NH, et al. **J Am Vet Med Assoc** 1996 Nov 1; 209(9):1585–7

Open fluoxetine treatment of mixed anxiety disorders in children and adolescents. Fairbanks JM, et al. **J Child Adolesc Psychopharmacol** 1997 Spring;7(1):17–29

Open–label treatment of comorbid depression and attentional disorders with co–administration of serotonin reuptake inhibitors and psychostimulants in children, adolescents, and adults: a case series. Findling RL. **J Child Adolesc Psychopharmacol** 1996 Fall;6(3):165–75

An open–label study of SSRI treatment in depressed hispanic and non–Hispanic women [letter] Alonso M, et al. **J Clin Psychiatry** 1997 Jan;58(1):31

A comparison of nefazodone and fluoxetine on mood and on objective, subjective, and clinician–rated measures of sleep in depressed patients: a double–blind, 8–week clinical trial [published erratum appears in J Clin Psychiatry 1997 Jun;58(6):275] Gillin JC, et al. **J Clin Psychiatry** 1997 May; 58(5):185–92

Fluoxetine efficacy in social phobia [letter] Taylor LH. **J Clin Psychiatry** 1997 Mar;58(3):124–5

Fluoxetine treatment of patients with major depressive disorder who failed initial treatment with sertraline. Thase ME, et al. **J Clin Psychiatry** 1997 Jan;58(1):16–21

A multicenter, double–blind comparison of the effects of nefazodone and fluoxetine on sleep architecture and quality of sleep in depressed outpatients. Armitage R, et al. **J Clin Psychopharmacol** 1997 Jun;17(3):161–8

Risperidone and fluoxetine in the treatment of pedophilia with comorbid dysthymia [letter] Bourgeois JA, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):257–8

An open clinical trial of fluoxetine in the treatment of premature ejaculation. Lee HS, et al. **J Clin Psychopharmacol** 1996 Oct;16(5):379–82

Comparison of fluoxetine, bupropion, and placebo in the treatment of premenstrual dysphoric disorder. Pearlstein TB, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):261–6

A comparison of fluvoxamine and fluoxetine in the treatment of major depression. Rapaport M, et al. **J Clin Psychopharmacol** 1996 Oct;16(5):373–8

Correlated reductions in cerebrospinal fluid 5–HIAA and MHPG concentrations after treatment with selective serotonin reuptake inhibitors. Sheline Y, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):11–4

SSRI or tricyclics for depression? Bushell I, et al. **J Fam Pract** 1996 Oct;43(4):345–6

Fluoxetine and amitriptyline in the treatment of fibromyalgia. Johnson SP. **J Fam Pract** 1997 Feb;44(2):128–30

Fluoxetine and restless legs syndrome. Bakshi R. **J Neurol Sci** 1996 Oct;142(1–2):151–2

Moclobemide versus fluoxetine for double depression: a randomized double–blind study. Duarte A, et al. **J Psychiatr Res** 1996 Nov–Dec;30(6):453–8

Hostility changes following antidepressant treatment: relationship to stress and negative thinking. Fava M, et al. **J Psychiatr Res** 1996 Nov–Dec;30(6):459–67

Venlafaxine–fluoxetine–nortriptyline interaction [letter] Benazzi F. **J Psychiatry Neurosci** 1997 Jul;22(4):278–9

Moclobemide versus fluoxetine in the treatment of major depressive disorder in adults. Lapierre YD, et al. **J Psychiatry Neurosci** 1997 Mar;22(2):118–26

Antidepressants in the treatment of premature ejaculation. Balon R. **J Sex Marital Ther** 1996 Summer;22(2):85–96 (51 ref.)

The efficacy of fluoxetine in the treatment of premature ejaculation: a double–blind placebo controlled study [see comments] Kara H, et al. **J Urol** 1996 Nov;156(5):1631–2 . Comment in: J Urol 1996 Nov;156(5):1636.

Fluoxetine vs. tricyclic antidepressants in women with major depressive disorder. Lewis–Hall FC, et al. **J Womens Health** 1997 Jun;6(3):337–43

Initial choice of antidepressant therapy in primary care [letter; comment] Bruhat A, et al. **JAMA** 1996 Oct 23–30; 276(16):1301; discussion 1302. Comment on: JAMA 1996 Jun 26;275(24):1897–902.

Randomised, double–blind, placebo–controlled trial of pindolol in combination with fluoxetine antidepressant treatment [see comments] Pérez V, et al. **Lancet** 1997 May 31;349(9065):1594–7. Comment in: Lancet 1997 Jul 26;350(9073):288–9. Comment in: Lancet 1997 Jul 26;350(9073):289.

Selective serotonin reuptake inhibitors plus pindolol [letter; comment] Terao T. **Lancet** 1997 Jul 26;350(9073):289. Comment on: Lancet 1997 May 31;349(9065):1594–7.

A controlled trial of fluoxetine in nondepressed patients with Huntington's disease. Como PG, et al. **Mov Disord** 1997 May;12(3):397–401

Dichotic listening before and after fluoxetine treatment for major depression: relations of laterality to therapeutic response. Bruder GE, et al. **Neuropsychopharmacology** 1996 Aug;15(2):171–9

Fluoxetine, but not tricyclic antidepressants, potentiates the 5–hydroxytryptophan–mediated increase in plasma cortisol and prolactin secretion in subjects with major depression or with obsessive compulsive disorder. Meltzer H, et al. **Neuropsychopharmacology** 1997 Jul;17(1):1–11

Fluoxetine in the treatment of premenstrual dysphoria. Su TP, et al. **Neuropsychopharmacology** 1997 May;16(5):346–56

Usefulness of fluoxetine in obese non–insulin–dependent diabetics: a multicenter study. Daubresse JC, et al. **Obes Res** 1996 Jul;4(4):391–6

The addition of dexfenfluramine to fluoxetine in the treatment of obesity: a randomized clinical trial. Pedrinola F, et al. **Obes Res** 1996 Nov;4(6):549–54

Interaction between fluoxetine and haloperidol: pharmacokinetic and clinical implications. Avenoso A, et al. **Pharmacol Res** 1997 Apr;35(4):335–9

Ritanserin as adjunct to fluoxetine treatment of OCD patients with psychotic features [letter] Bach M, et al. **Pharmacopsychiatry** 1997 Jan;30(1):28–9

Antidepressant drug use: differences between psychiatrists and general practitioners. Results from a drug utilization observation study with fluoxetine. Dittmann RW, et al. **Pharmacopsychiatry** 1997 Jan;30(1 Suppl):28–34

An investigation of the representativity of neuropsychiatrists and their patients in a drug utilization observation study on fluoxetine. Schaaf B, et al. **Pharmacopsychiatry** 1997 Jan;30(1 Suppl):44–51

Potentiation of fluoxetine by aminoglutethimide, an adrenal steroid suppressant, in obsessive–compulsive disorder resistant to SSRIs: a case report. Chouinard G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Aug; 20(6):1067–79

Obsessive compulsive disorder and depression—first results of a prospective study on 74 patients. Demal U, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jul; 20(5):801–13

A double–blind comparison of venlafaxine and fluoxetine for treatment of major depression in outpatients. Dierick M, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):57–71

The use of fluoxetine in Gilles de la Tourette syndrome and obsessive compulsive behaviours: preliminary clinical experience. Eapen V, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 May; 20(4):737–43

Hostility in heroin abusers subtypes: fluoxetine and naltrexone treatment. Gerra G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1225–37

Follow–up assessment of medication–treated dysthymia. Hellerstein DJ, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):427–42

Two–year outcome of elderly patients with anxious depression. Flint AJ, et al. **Psychiatry Res** 1997 Jan 15; 66(1):23–31

Double–blind fluoxetine in depressed alcoholic smokers. Cornelius JR, et al. **Psychopharmacol Bull** 1997; 33(1):165–70

A double–blind, randomized, fixed–dose trial of fluoxetine vs. amitriptyline in the treatment of major depression complicating Alzheimer's disease. Taragano FE, et al. **Psychosomatics** 1997 May–Jun;38(3):246–52

Fluoxetine in the treatment of depression in Asian (Chinese and Indian) patients in Singapore. Tsoi WF, et al. **Singapore Med J** 1995 Aug;36(4):397–9

[A test for using meta–analysis to evaluate antidepressive effects of fluoxetine] Jarema M. **Psychiatr Pol** 1996 Jul–Aug;30(4):569–81 (Eng. Abstr.) **(Pol)**

[Biological mechanisms of drug–resistant depression] Suwalska A, et al. **Psychiatr Pol** 1996 Sep–Oct;30(5):713–29 (56 ref.) (Eng. Abstr.) **(Pol)**

[A comparative clinical evaluation of the antidepressive activity of fluoxetine and fluvoxamine] Lopukhov IG. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(4):53–7 (Eng. Abstr.) **(Rus)**

[Exacerbation of spasticity induced by serotonin reuptake inhibitors. Letter] del Real MA, et al. **Neurologia** 1996 Aug–Sep;11(7):272 **(Spa)**

TOXICITY

A murine model of adenomyosis: the effects of hyperprolactinemia induced by fluoxetine hydrochloride, a selective serotonin reuptake inhibitor, on adenomyosis induction in Wistar albino rats. Fiçicioğlu C, et al. **Acta Eur Fertil** 1995 Mar–Apr;26(2):75–9

Comments on fluoxetine in carcinogenicity [letter; comment] Hoffman WP, et al. **J Clin Psychopharmacol** 1996 Aug; 16(4):335–9. Comment on: J Clin Psychopharmacol 1995 Feb;15(1):84–5.

Potential fluoxetine chloride (Prozac) toxicity in a newborn [letter] Mhanna MJ, et al. **Pediatrics** 1997 Jul;100(1):158–9

Development of an animal model of fluoxetine akathisia. Teicher MH, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1305–19

Fluoxetine hypophagia. Is there a role for serotonergic mechanisms in some circumstances? [letter; comment] Clifton PG, et al. **Trends Pharmacol Sci** 1997 Jun; 18(6):191–2 (4 ref.). Comment on: Trends Pharmacol Sci 1997 Jan;18(1):21–5.

FLUPENTHIXOL

ADVERSE EFFECTS

[Drug–induced or aggravated parkinsonism: clinical signs and the changing pattern of implicated drugs] Martí Massó JF, et al. **Neurologia** 1996 Jan;11(1):10–5 (Eng. Abstr.) **(Spa)**

ANALOGS & DERIVATIVES

Morphological and histochemical changes in the liver of albino Wistar rat given flupenthixol depot. Kasacka I. **Rocz Akad Med Bialymst** 1996;41(2):230–8

[Non–compliance and lack of indications for depot treatment as reasons for exclusion from adequate prevention of recurrence] Jakobitsch A, et al. **Psychiatr Prax** 1996 Sep; 23(5):236–9 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Sensitivity to the motoric effects of a dopamine receptor antagonist differs as a function of age at the time of dopamine depletion. Sandstrom MI, et al. **Dev Psychobiol** 1997 May;30(4):293–300

Symmetrical effects of amphetamine and alpha–flupenthixol on conditioned punishment and conditioned reinforcement: contrasts with midazolam. Killcross AS, et al. **Psychopharmacology (Berl)** 1997 Jan;129(2):141–52

POISONING

A complication of self–poisoning. Gerrand CH, et al. **Postgrad Med J** 1997 Feb;73(856):113–4

FLUPHENAZINE

ADMINISTRATION & DOSAGE

Suggestions to improve conversion of fluphenazine dosage forms [letter; comment] Raleigh F. **Am J Health Syst Pharm** 1996 Jul 15;53(14):1727, 1732. Comment on: Am J Health Syst Pharm 1995 Dec 15;52(24):2826–7.

Evaluation of inpatient depot antipsychotic prescribing. Pabis DJ, et al. **Ann Pharmacother** 1996 Dec;30(12):1381–6

Absolute bioavailability of oral immediate and slow release fluphenazine in healthy volunteers. Koytchev R, et al. **Eur J Clin Pharmacol** 1996;51(2):183–7

Effects of ceruletide on perioral movements and the dopamine receptor–adenylate cyclase system in rats chronically treated with fluphenazine. Ashizawa T, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):185–94

ADVERSE EFFECTS

Fluphenazine decanoate causing atrioventricular block. Rao AV. **Indian Heart J** 1996 Nov–Dec;48(6):713–4

ANALOGS & DERIVATIVES

Relapse and rehospitalization during maintenance treatment of schizophrenia. The effects of dose reduction and family treatment. Schooler NR, et al. **Arch Gen Psychiatry** 1997 May;54(5):453–63

Spiramycin–associated acute dystonia during neuroleptic treatment [letter] Benazzi F. **Can J Psychiatry** 1997 Aug; 42(6):665–6

Sensitive method for the simultaneous measurement of fluphenazine decanoate and fluphenazine in plasma by high–performance liquid chromatography with coulometric detection. Luo JP, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):303–8

Studies on the mechanism of absorption of depot neuroleptics: fluphenazine decanoate in sesame oil. Luo JP, et al. **Pharm Res** 1997 Aug;14(8):1079–84

BLOOD

Sensitive method for the simultaneous measurement of fluphenazine decanoate and fluphenazine in plasma by high–performance liquid chromatography with coulometric detection. Luo JP, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):303–8

CHEMISTRY

Anodic voltammetry of fluphenazine at different solid electrodes. Sentürk Z, et al. **J Pharm Biomed Anal** 1996 Dec;15(3):365–70

PHARMACOKINETICS

Absolute bioavailability of oral immediate and slow release fluphenazine in healthy volunteers. Koytchev R, et al. **Eur J Clin Pharmacol** 1996;51(2):183–7

PHARMACOLOGY

The brain metabolic patterns of clozapine– and fluphenazine–treated patients with schizophrenia during a continuous performance task. Cohen RM, et al. **Arch Gen Psychiatry** 1997 May;54(5):481–6

Effects of dopamine agonists on Cebus apella monkeys with previous long–term exposure to fluphenazine. Lifshitz K, et al. **Biol Psychiatry** 1997 Mar 15;41(6):657–67

Duration–dependent increase in striatal glutamate following prolonged fluphenazine administration in rats. See RE, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):279–82

THERAPEUTIC USE

Nortriptyline–fluphenazine vs. carbamazepine in the symptomatic treatment of diabetic neuropathy. Gómez–Pérez FJ, et al. **Arch Med Res** 1996 Winter; 27(4):525–9

Transition from acute to maintenance treatment: prediction of stabilization. Schooler NR, et al. **Int Clin Psychopharmacol** 1996 May;11 Suppl 2:85–91

TOXICITY

Teratogenic effect of diphenylhydantoin and/or fluphenazine in mice. Abdel–Hamid HA, et al. **J Appl Toxicol** 1996 May–Jun;16(3):221–5

FLUPREDNISOLONE

THERAPEUTIC USE

Comparative evaluation of the short–term bactericidal potential of a steroid–antibiotic combination versus steroid in the treatment of chronic bacterial blepharitis and conjunctivitis. Shulman DG, et al. **Eur J Ophthalmol** 1996 Oct–Dec;6(4):361–7

A comparison of two ophthalmic steroid–antibiotic combinations after cataract surgery. van Endt JJ, et al. **Eur J Ophthalmol** 1997 Apr–Jun;7(2):144–8

A prospective randomized study of medications after silicone intubation. Liu D. **Ophthalmic Surg Lasers** 1996 Jun; 27(6):434–7

FLUPYRAZAPON see **ZOLAZEPAM**

FLURAZEPAM

ANALOGS & DERIVATIVES

Doxefazepam. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:97–104 (12 ref.)

PHARMACOLOGY

Propofol and flurazepam act synergistically to potentiate GABAA receptor activation in human recombinant receptors. Reynolds JN, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):151–6

Silent GABAA synapses during flurazepam withdrawal are region–specific in the hippocampal formation. Poisbeau P, et al. **J Neurosci** 1997 May 15;17(10):3467–75

Evaluation of in vivo interactions in mice between flurazepam and two neuroactive steroids. Deutsch SI, et al. **Pharmacol Biochem Behav** 1996 Nov;55(3):323–6

FLURBIPROFEN

ADMINISTRATION & DOSAGE

Topical 0.5% ketorolac vs 0.03% flurbiprofen for inhibition of miosis during cataract surgery. Solomon KD, et al. **Arch Ophthalmol** 1997 Sep;115(9):1119–22

Evaluation of topical 0.03% flurbiprofen drops in the treatment of herpetic stromal keratitis. Vajpayee RB, et al. **Aust N Z J Ophthalmol** 1996 May;24(2):131–5

Efficacy and tolerability of a topical NSAID patch (local action transcutaneous flurbiprofen) and oral diclofenac in the treatment of soft–tissue rheumatism. Martens M. **Clin Rheumatol** 1997 Jan;16(1):25–31

A clinical evaluation of flurbiprofen LAT and piroxicam gel: a multicentre study in general practice. Ritchie LD. **Clin Rheumatol** 1996 May;15(3):243–7

Radioprotective properties of flurbiprofen. Hofer M, et al. **Folia Biol (Praha)** 1996;42(5):267–9

Topical flurbiprofen therapy in vernal keratoconjunctivitis. Sud RN, et al. **Indian J Med Sci** 1995 Sep;49(9):205–9

Efficacy and tolerance of diclofenac sodium 0.1%, flurbiprofen 0.03%, and indomethacin 1.0% in controlling postoperative inflammation. Diestelhorst M, et al. **J Cataract Refract Surg** 1996;22 Suppl 1:788–93

[Preoperative flurbiprofen provides pain relief after laparoscopic cholecystectomy] Tanaka S, et al. **Masui** 1997 May;46(5):679–83 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Membranous nephropathy associated with the use of flurbiprofen [letter] MacKay K. **Clin Nephrol** 1997 Apr; 47(4):279–80

Delayed hypersensitivity to flurbiprofen. Romano A, et al. **J Intern Med** 1997 Jan;241(1):81–3 (15 ref.)

ANALOGS & DERIVATIVES

Stereoselective disposition of flurbiprofen from a mutual prodrug with a histamine H2–antagonist to reduce gastrointestinal lesions in the rat. Fukuhara A, et al. **Chirality** 1996;8(7):494–502

Effects of flurbiprofen and flurbinitroxybutylester on prostaglandin endoperoxide synthases. Santini G, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):65–72

Intestinal tolerability of nitroxybutyl–flurbiprofen in rats. Somasundaram S, et al. **Gut** 1997 May;40(5):608–13

Vasodilating properties of a new non–steroidal anti–inflammatory drug, nitroflurbiprofen, on rat aortic rings. Adami A, et al. **Pharmacol Res** 1996 Apr–May; 33(4–5):239–44

BLOOD

High–performance thin–layer chromatographic determination of flurbiprofen in plasma. Dhavse VV, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):449–53

CHEMISTRY

Stereoselective disposition of flurbiprofen from a mutual prodrug with a histamine H2–antagonist to reduce gastrointestinal lesions in the rat. Fukuhara A, et al. **Chirality** 1996;8(7):494–502

ISOLATION & PURIFICATION

Enantiomeric separation of some 2–arylpropionic acids with a chiral fluorescence labelling reagent by narrow–bore liquid chromatography. Pecanac D, et al. **Biomed Chromatogr** 1997 Mar–Apr;11(2):83–4

METABOLISM

Studies of flurbiprofen 4'–hydroxylation. Additional evidence suggesting the sole involvement of cytochrome P450 2C9. Tracy TS, et al. **Biochem Pharmacol** 1996 Oct 25; 52(8):1305–9

PHARMACOKINETICS

The effect of food on the bioavailability of ibuprofen and flurbiprofen from sustained release formulations. Pargal A, et al. **Biopharm Drug Dispos** 1996 Aug;17(6):511–9

Disposition and effects of flurbiprofen enantiomers in human serum and blister fluid. Oelkers R, et al. **Br J Clin Pharmacol** 1997 Feb;43(2):145–53

Stereoselective disposition of flurbiprofen from a mutual prodrug with a histamine H2–antagonist to reduce gastrointestinal lesions in the rat. Fukuhara A, et al. **Chirality** 1996;8(7):494–502

Studies on the in vitro inversion of flurbiprofen. Lombard A, et al. **Chirality** 1997;9(3):317–9

Biliary excretion and enterohepatic cycling of R– and S–flurbiprofen in the rat. Eeckhoudt SL, et al. **Drug Metab Dispos** 1997 Apr;25(4):428–30

Pharmacokinetics and pharmacodynamics of enantiomers of ibuprofen and flurbiprofen after oral administration. Suri A, et al. **Int J Clin Pharmacol Ther** 1997 Jan;35(1):1–8

Human plasma concentrations of R, S, and racemic flurbiprofen given as a toothpaste. Forland SC, et al. **J Clin Pharmacol** 1996 Jun;36(6):546–53

PHARMACOLOGY

Comparison of in vitro antiproliferative effects of steroids and nonsteroidal antiinflammatory drugs on human keratocytes. Lu KL, et al. **Cornea** 1996 Mar;15(2):185–90

Effects of flurbiprofen and flurbinitroxybutylester on prostaglandin endoperoxide synthases. Santini G, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):65–72

Pharmacokinetics and pharmacodynamics of enantiomers of ibuprofen and flurbiprofen after oral administration. Suri A, et al. **Int J Clin Pharmacol Ther** 1997 Jan;35(1):1–8

Anti–inflammatory medication after muscle injury. A treatment resulting in short–term improvement but subsequent loss of muscle function [letter; comment] Swaak AJ. **J Bone Joint Surg Am** 1997 Aug;79(8):1270–1. Comment on: J Bone Joint Surg Am 1995 Oct;77(10):1510–9.

New insights into the site and mode of antinociceptive action of flurbiprofen enantiomers. Geisslinger G, et al. **J Clin Pharmacol** 1996 Jun;36(6):513–20 (85 ref.)

Antiproliferative effects of the enantiomers of flurbiprofen. McCracken JD, et al. **J Clin Pharmacol** 1996 Jun; 36(6):540–5

Comparative evaluation of Butea frondosa and flurbiprofen for ocular anti–inflammatory activity in rabbits. Mengi SA, et al. **J Pharm Pharmacol** 1995 Dec;47(12A):997–1001

Effect of the enantiomers of flurbiprofen, ibuprofen, and ketoprofen on intestinal permeability. Davies NM, et al. **J Pharm Sci** 1996 Nov;85(11):1170–3

The effect of flurbiprofen on steady–state plasma lithium levels. Hughes BM, et al. **Pharmacotherapy** 1997 Jan–Feb; 17(1):113–20

THERAPEUTIC USE

Tetracycline/flurbiprofen combination therapy modulates bone remodeling in ovariectomized rats: preliminary observations. Aoyagi M, et al. **Bone** 1996 Dec;19(6):629–35

Dose–response of flurbiprofen on postoperative pain and emesis after paediatric strabismus surgery. Mikawa K, et al. **Can J Anaesth** 1997 Jan;44(1):95–8

Topical analgesia for superficial corneal injuries. Brahma AK, et al. **J Accid Emerg Med** 1996 May;13(3):186–8

Comparison of diclofenac sodium and flurbiprofen for inhibition of surgically induced miosis. Roberts CW. **J Cataract Refract Surg** 1996;22 Suppl 1:780–7

Comparative study of diclofenac sodium and flurbiprofen in osteoarthritis. Shaikh KA, et al. **JPMA J Pak Med Assoc** 1996 Dec;46(12):270–2

[Flurbiprofen collutory in oral surgical pathology] Procaccini M, et al. **Minerva Stomatol** 1996 Sep;45(9):421–5 (Eng. Abstr.) **(Ita)**

TOXICITY

Combined flurbiprofen and cyclosporin–A does not attenuate bone loss and exaggerates renal impairment. Sass DA, et al. **Bone** 1996 Oct;19(4):381–6

FLURIDRAZEPAM see **FLUNITRAZEPAM**

FLUROGESTONE see **FLUROGESTONE ACETATE**

FLUROGESTONE ACETATE

PHARMACOLOGY

Estrus synchronization in dairy goats: use of fluorogestone acetate vaginal sponges or norgestomet ear implants. Freitas VJ, et al. **Anim Reprod Sci** 1997 Apr;46(3–4):237–44

FLUROTHYL

Effects of valproate, phenytoin, and MK–801 in a novel model of epileptogenesis. Applegate CD, et al. **Epilepsia** 1997 Jun;38(6):631–6

PHARMACOKINETICS

An indirect method for absorption rate estimation: flurothyl–induced seizures. Lánský P, et al. **Bull Math Biol** 1997 May;59(3):569–79

PHARMACOLOGY

Flurothyl seizure susceptibility in rats following prenatal methylazoxymethanol treatment. Baraban SC, et al. **Epilepsy Res** 1996 Apr;23(3):189–94

TOXICITY

Functional observational battery comparing effects of ethanol, 1,1,1–trichloroethane, ether, and flurothyl. Bowen SE, et al. **Neurotoxicol Teratol** 1996 Sep–Oct;18(5):577–85

FLUSHING

see related
BLUSHING

Postoperative autonomic deficit: a case of harlequin syndrome. Turco GR, et al. **Anesthesiology** 1996 Nov; 85(5):1197–9

The "harlequin" sign and congenital Horner's syndrome. Morrison DA, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):626–8

[Analysis of flushing response to alcohol and drinking behavior in Japanese male students] Sobue I, et al. **Nippon Eiseigaku Zasshi** 1997 Jan;51(4):722–33 (Eng.

FLUSHING

Abstr.) **(Jpn)**

CHEMICALLY INDUCED

Headache, circumoral paresthesia, and facial flushing associated with high-dose carmustine infusion. Woo MH, et al. **Bone Marrow Transplant** 1997 Apr;19(8):845-7

Flushing pattern and idiopathic avascular necrosis of the femoral head. Shibata A, et al. **J Epidemiol** 1996 Mar; 6(1):37-43

Membrane fatty acids, niacin flushing and clinical parameters. Glen AI, et al.
Prostaglandins Leukot Essent Fatty Acids 1996 Aug; 55(1-2):9-15

The effect of adrenergic blockade on blushing and facial flushing. Drummond PD. **Psychophysiology** 1997 Mar; 34(2):163-8

DIAGNOSIS

Recurrent near-syncope with flushing. Suchard JR.
Acad Emerg Med 1997 Jul;4(7):718-24

Localized facial flushing in infancy. Auriculotemporal nerve (Frey) syndrome. Dizon MV, et al. **Arch Dermatol** 1997 Sep;133(9):1143-5 (28 ref.)

DRUG THERAPY

Double-masked, multicenter study of an estradiol matrix transdermal delivery system (Alora) versus placebo in postmenopausal women experiencing menopausal symptoms. Alora Study Group. Good WR, et al.
Clin Ther 1996 Nov-Dec;18(6):1093-105

Management of hot flushes due to endocrine therapy for prostate carcinoma. Smith JA Jr. **Oncology (Huntingt)** 1996 Sep;10(9):1319-22; discussion 1324 (22 ref.)

[The effective therapy of the hot flashes during hormone withdrawal treatment in patients with advanced prostatic carcinoma] Kliesch S, et al. **Dtsch Med Wochenschr** 1997 Jul 25;122(30):940-5 (64 ref.) **(Ger)**

ETIOLOGY

Facial flushes and diarrhoea. Crasset V, et al.
Postgrad Med J 1997 Jun;73(860):337-8

FLUSPIRILENE

ADVERSE EFFECTS

Side effects of low dose neuroleptics and their impact on clinical outcome in generalized anxiety disorder. Wurthmann C, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1997 May; 21(4):601-9

[Fluspirilene--safe weekly tranquilizer?] Kuhn W, et al.
Nervenarzt 1997 Jun;68(6):528 **(Ger)**

PHARMACOLOGY

Inhibition of synaptic transmission and epileptiform activity in central neurones by fluspirilene. Wang SJ, et al.
Br J Pharmacol 1997 Mar;120(6):1114-8

FLUTAMIDE

ADMINISTRATION & DOSAGE

Flutamide withdrawal and concomitant initiation of aminoglutethimide in patients with hormone refractory prostate cancer. Figg WD, et al. **Acta Oncol** 1996; 35(6):763-5

Flutamide withdrawal plus hydrocortisone resulted in clinical complete response in a patient with prostate carcinoma. Figg WD, et al. **Cancer** 1997 May 15;79(10):1964-8

Recommended dose of flutamide with LH-RH agonist therapy in patients with advanced prostate cancer. Akaza H, et al. **Int J Urol** 1996 Nov;3(6):468-71

Re: Characterization of patients with androgen independent prostatic carcinoma whose serum prostate specific antigen decreased following flutamide withdrawal [letter; comment] Small EJ. **J Urol** 1997 Aug;158(2):552. Comment on: J Urol 1996 Feb;155(2):620-3.

In vitro evaluation of flutamide-carrier systems. Part 1: Preparation and evaluation of flutamide systems with polyvinyl pyrrolidone and polyethylene glycol 4000 and 6000. Adel MS, et al. **Pharmazie** 1997 May;52(5):373-5

[Studies on changes in the ratio of free to total PSA after endocrine treatment of prostate carcinoma] Sumi S, et al.
Hinyokika Kiyo 1996 Dec;42(12):937-41 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Photosensitive dermatitis induced by flutamide [letter] Fujimoto M, et al. **Br J Dermatol** 1996 Sep;135(3):496-7

Flutamide-induced toxic hepatitis. Potential utility of ursodeoxycholic acid administration in toxic hepatitis. Cicognani C, et al. **Dig Dis Sci** 1996 Nov;41(11):2219-21

The effects of pre- and postnatal exposure to the nonsteroidal antiandrogen flutamide on testis descent and morphology in the Albino Swiss rat. Kassim NM, et al. **J Anat** 1997 May;190 (Pt 4):577-88

Flutamide induced methemoglobinemia. Khan AM, et al.
J Urol 1997 Apr;157(4):1363 (3 ref.)

Flutamide photosensitivity. Leroy D, et al.
Photodermatol Photoimmunol Photomed 1996 Oct; 12(5):216-8

Finasteride and flutamide as potency-sparing androgen-ablative therapy for advanced adenocarcinoma of the prostate. Brufsky A, et al. **Urology** 1997 Jun; 49(6):913-20

A case of flutamide-induced acute cholestatic hepatitis--a case report. Lee HW, et al. **Yonsei Med J** 1996 Jun; 37(3):225-9

[Hepatic encephalopathy induced by flutamide administered for the treatment of prostatic cancer] Patel H, et al.
J Urol (Paris) 1996;102(3):123-5 (12 ref.) (Eng. Abstr.) **(Fre)**

[A case of fulminant hepatitis caused by antiandrogen, flutamide in a patient with prostate cancer] Satoh T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jul;88(7):694-6 (Eng. Abstr.) **(Jpn)**

[Liver failure caused by flutamide] Guzmán Martínez-Valls PL, et al. **Actas Urol Esp** 1997 Mar;21(3):278-82 (Eng. Abstr.) **(Spa)**

[Hepatoxicity caused by flutamide increased by hypotensive situation?] Serrano Hernández N, et al. **An Med Interna** 1996 Nov;13(11):552-4 (Eng. Abstr.) **(Spa)**

[Fulminant liver failure with a fatal outcome due to flutamide (letter)] Fernández Peña CM, et al. **Med Clin (Barc)** 1997 Feb 15;108(6):237-8 (8 ref.) **(Spa)**

ANALOGS & DERIVATIVES

Effects of short-term exposure to hydroxyflutamide in utero on the development of the reproductive tract in male mice. Silversides DW, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1582-8

Antiandrogen microimplants into the rostral medial preoptic area decrease gamma-aminobutyric acidergic neuronal activity and increase luteinizing hormone secretion in the intact male rat. Grattan DR, et al. **Endocrinology** 1996 Oct; 137(10):4167-73

New and validated high-performance liquid chromatographic method for determination of hydroxyflutamide in human plasma. Leibinger J, et al.
J Pharm Biomed Anal 1996 Jun;14(8-10):1377-81

Hydroxyflutamide may not always be a pure antiandrogen [letter] Yeh S, et al. **Lancet** 1997 Mar 22;349(9055):852-3

Inhibition of male sex behavior by androgen receptor blockade in preoptic area or hypothalamus, but not amygdala or septum. McGinnis MY, et al.
Physiol Behav 1996 Sep;60(3):783-9

Comparison of in vitro effects of the pure antiandrogens OH-flutamide, Casodex, and nilutamide on androgen-sensitive parameters. Simard J, et al. **Urology** 1997 Apr;49(4):580-6; discussion 586-9

[Does interferon-alpha enhance the effect of tamoxifen-medroxyprogesterone acetate and hydroxyflutamide on in vitro tumor cells? Werner A, et al. **Zentralbl Gynakol** 1996;118(11):616-21 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Bioequivalence evaluation of two flutamide preparations in healthy female subjects. Doser K, et al.
Arzneimittelforschung 1997 Feb;47(2):213-7

PHARMACOLOGY

Marked symptom reduction in two women with bulimia nervosa treated with the testosterone receptor antagonist flutamide. Bergman L, et al. **Acta Psychiatr Scand** 1996 Aug;94(2):137-9

Ornithine decarboxylase activity and polyamine levels in the epididymis of prepubertal rat after antiandrogen administration. Rulli SB, et al. **Arch Androl** 1997 Mar-Apr; 38(2):163-71

Alteration by flutamide of neutrophil response to stimulation. Implications for tissue injury. Srinivasan R, et al.
Biochem Pharmacol 1997 Apr 25;53(8):1179-85

Androgen action on the restoration of spermatogenesis in adult rats: effects of human chorionic gonadotrophin, testosterone and flutamide administration on germ cell number. Meachem SJ, et al. **Int J Androl** 1997 Apr; 20(2):70-9

Endocrine mechanisms of suppressive effect of low dose estrogen-antiandrogen treatment on androgen-dependent organs of male rats. Reznikov AG, et al.
J Endocrinol Invest 1996 Nov;19(10):654-8

The influence of the anti-androgen flutamide on early sexual differentiation of the marsupial male. Lucas JC, et al.
J Reprod Fertil 1997 Mar;109(2):205-12

Immunological and biological activities of pituitary FSH isoforms in prepubertal male rats: effect of antiandrogens. Rulli SB, et al. **Neuroendocrinology** 1996 Jun;63(6):514-21

[The effect of antiandrogens cyproterone acetate and niftolide on free radical oxidation indices in model biological systems in vitro] Chukaev SA.
Biull Eksp Biol Med 1996 Nov;122(11):524-6 **(Rus)**

THERAPEUTIC USE

Marked symptom reduction in two women with bulimia nervosa treated with the testosterone receptor antagonist flutamide. Bergman L, et al. **Acta Psychiatr Scand** 1996 Aug;94(2):137-9

Long-term follow-up of stages T2-T3 prostate cancer pretreated with androgen ablation therapy prior to radical prostatectomy. Lee F, et al. **Anticancer Res** 1997 May-Jun; 17(3A):1507-10

Successful treatment of hirsutism in HAIR-AN syndrome using flutamide, spironolactone, and birth control therapy. Zemtsov A, et al. **Arch Dermatol** 1997 Apr;133(4):431-3

Reduction of flutamide-induced alanine aminotransferase elevation after replacement by bicalutamide in a patient with N+ disease treated with maximal androgen blockade as a primary treatment. Palmberg C, et al. **Br J Urol** 1997 May;79(5):808-9

Early endocrine therapy versus radical prostatectomy combined with early endocrine therapy for stage D1 prostate cancer. Schmeller N, et al. **Br J Urol** 1997 Feb; 79(2):226-34

Androgen-receptor blockade does not impair bone mineral density in adolescent females. Bertelloni S, et al.
Calcif Tissue Int 1997 Jul;61(1):1-5

Pathology of androgen deprivation therapy in prostate carcinoma. A comparative study of 173 patients. Civantos F, et al. **Cancer** 1995 Apr 1;75(7):1634-41

A controlled trial of bicalutamide versus flutamide, each in combination with luteinizing hormone-releasing hormone analogue therapy, in patients with advanced prostate carcinoma. Analysis of time to progression. CASODEX Combination Study Group. Schellhammer PF, et al.
Cancer 1996 Nov 15;78(10):2164-9

Promoting effects and mechanisms of action of androgen in bladder carcinogenesis in male rats. Imada S, et al.
Eur Urol 1997;31(3):360-4

Tolerability and safety of flutamide in monotherapy, with orchiectomy or with LHRH-a in advanced prostate cancer patients. A Belgian multicenter study of 905 patients. Oosterlinck W, et al. **Eur Urol** 1996;30(4):458-63

Effects of neoadjuvant androgen deprivation therapy on prostatic cancer. Polito M, et al. **Eur Urol** 1996;30 Suppl 1:26-31; discussion 38-9

Randomized comparison of total androgen blockade alone versus combined with weekly epirubicin in advanced prostate cancer. Pummer K, et al. **Eur Urol** 1997;32 Suppl 3:81-5

Influence of irradiation and androgen ablation on prostatic intraepithelial neoplasia. Wheeler TM. **Eur Urol** 1996; 30(2):261-4 (20 ref.)

Treatment of hirsutism by finasteride and flutamide in women with polycystic ovary syndrome. Falsetti L, et al.
Gynecol Endocrinol 1997 Aug;11(4):251-7

A preliminary study of flutamide, testolactone, and reduced hydrocortisone dose in the treatment of congenital adrenal hyperplasia. Laue L, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3535-9

Large Shionogi tumors lose their responsiveness to flutamide treatment. Chen C, et al. **J Steroid Biochem Mol Biol** 1996 Aug;58(5-6):489-94

Is prednisolone as good as flutamide in hormone refractory metastatic carcinoma of the prostate? [see comments] Datta SN, et al. **J Urol** 1997 Jul;158(1):175-7. Comment in: J Urol 1997 Jul;158(1):178.

Prostate specific antigen in black and white men after hormonal therapies for prostate cancer. Fowler JE, et al.
J Urol 1997 Jul;158(1):150-4

New approaches to the treatment of congenital adrenal hyperplasia [clinical conference] Merke DP, et al.
JAMA 1997 Apr 2;277(13):1073-6

A phase II study of flutamide in ovarian cancer. Vassilomanolakis M, et al. **Oncology** 1997 May-Jun; 54(3):199-202

Combination treatment versus LHRH alone in advanced prostatic cancer. Ferrari P, et al. **Urol Int** 1996;56 Suppl 1:13-7

The indications, rationale, and results of neoadjuvant androgen deprivation in the treatment of prostatic cancer: Memorial Sloan-Kettering Cancer Center results. Fair WR, et al. **Urology** 1997 Mar;49(3A Suppl):46-55

Neoadjuvant hormonal therapy: the Canadian experience. Labrie F, et al. **Urology** 1997 Mar;49(3A Suppl):56-64

Flutamide plus castration in patients with previously untreated prostate cancer [letter] Labrie F. **Urology** 1997 Sep;50(3):479

PSA levels and the rate of positive surgical margins in radical prostatectomy specimens preceded by androgen blockade in clinical B2 (T2bNxMo) prostate cancer. The Lupron Depot Neoadjuvant Study Group. McLeod DG, et al.
Urology 1997 Mar;49(3A Suppl):70-3

Neoadjuvant androgen ablation prior to radiotherapy for prostate cancer: reducing the potential morbidity of therapy. Zelefsky MJ, et al. **Urology** 1997 Mar;49(3A Suppl):38-45

[Neoadjuvant combined hormonal therapy and radiotherapy with external beam irradiation in prostatic carcinoma] Cellini N, et al. **Radiol Med (Torino)** 1997 Apr;93(4):446-50 (Eng. Abstr.) **(Ita)**

[Total androgen blockade for prostate cancer] Kagebayashi Y, et al. **Hinyokika Kiyo** 1997 Mar;43(3):197-201 (Eng. Abstr.) **(Jpn)**

[Complete remission of endobronchial, parenchymal and hilar lymphatic lung metastases of prostatic carcinoma after anti-androgenic hormotherapy] Morrone N, et al.
Rev Assoc Med Bras 1996 Jan-Mar;42(1):57-60 (Eng. Abstr.) **(Por)**

[Effect of complete androgen block before radical prostatectomy for cancer of the prostate] Gómez Veiga

F, et al. **Arch Esp Urol** 1997 May;50(4):355–63 (Eng. Abstr.) **(Spa)**

[Histologic regression of localized prostatic tumor with neoadjuvant hormonal therapy] López López C, et al. **Arch Esp Urol** 1996 Oct;49(8):819–23 (Eng. Abstr.) **(Spa)**

[Prognostic factors in patients with prostatic cancer treated with neoadjuvant hormonal therapy and radical prostatectomy] Villavicencio Mavrich H, et al. **Arch Esp Urol** 1996 Oct;49(8):797–806 (Eng. Abstr.) **(Spa)**

FLUVOXAMINE

ADMINISTRATION & DOSAGE

The oral dose–effect relationship for fluvoxamine: a fixed–dose comparison against placebo in depressed outpatients. Walczak DD, et al. **Ann Clin Psychiatry** 1996 Sep;8(3):139–51

Fluvoxamine augmentation in clozapine–resistant schizophrenia: an open pilot study. Silver H, et al. **Biol Psychiatry** 1996 Oct 1;40(7):671–4

Fluvoxamine–clozapine dose–dependent interaction [letter] Markowitz JS, et al. **Can J Psychiatry** 1996 Dec; 41(10):670–1

Long–term pharmacotherapy of obsessive–compulsive disorder: a double–blind controlled study. Mundo E, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):4–10

Serotonin and human information processing: fluvoxamine can improve reaction time performance. Hasbroucq T, et al. **Neurosci Lett** 1997 Jul 4;229(3):204–8

[Maprotiline versus fluvoxamine: comparison of their effects on the hypothalamo–hypophyseal–thyroid axis] De Mendonça Lima CA, et al. **Encephale** 1997 Jan–Feb; 23(1):48–55 (Eng. Abstr.) **(Fre)**

ADVERSE EFFECTS

Fluvoxamine–induced theophylline toxicity [letter] DeVane CL, et al. **Am J Psychiatry** 1997 Sep;154(9):1317–8

Treatment of fluvoxamine–induced anorgasmia with a partial drug holiday [letter] Németh A, et al. **Am J Psychiatry** 1996 Oct;153(10):1365

Vitamin C for paroxetine– and fluvoxamine–associated bleeding [letter] Tielens JA. **Am J Psychiatry** 1997 Jun; 154(6):883–4

Fluvoxamine photosensitivity [letter] Gillet–Terver MN, et al. **Australas J Dermatol** 1996 Feb;37(1):62

Fluvoxamine–associated bleeding [letter] Leung M, et al. **Can J Psychiatry** 1996 Nov;41(9):604–5

The serotonin syndrome and psychosis–like side–effects of fluvoxamine clinical use––an estimation of incidence. Ebert D, et al. **Eur Neuropsychopharmacol** 1997 Feb;7(1):71–4

Worsening of psychosis with clozapine and selective serotonin reuptake inhibitor combination: two case reports [letter] Chong SA, et al. **J Clin Psychopharmacol** 1997 Feb; 17(1):68–9

Fluvoxamine and akathisia [letter] Chong SA, et al. **J Clin Psychopharmacol** 1996 Aug;16(4):334–5

A case of fluvoxamine intoxication demonstrating nonlinear elimination pharmacokinetics [letter] Spigset O, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):254–5

[Serious drug interaction between clozapine–Leponex and fluvoxamine–Fevarin] Olesen OV, et al. **Ugeskr Laeger** 1996 Nov 25;158(48):6931–2 (Eng. Abstr.) **(Dan)**

[Sexual dysfunction secondary to SSRIs. A comparative analysis in 308 patients] Montejo AI, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Nov–Dec;24(6):311–21 (Eng. Abstr.) **(Spa)**

ANALOGS & DERIVATIVES

Synthesis of [O–methyl–11C]fluvoxamine––a potential serotonin uptake site radioligand. Matarrese M, et al. **Appl Radiat Isot** 1997 Jun;48(6):749–54

ANALYSIS

A rapid electron–capture gas chromatographic method for the quantification of fluvoxamine in brain tissue. Rotzinger S, et al. **J Pharmacol Toxicol Methods** 1997 Apr; 37(3):129–33

BLOOD

Simultaneous determination of plasma levels of fluvoxamine and of the enantiomers of fluoxetine and norfluoxetine by gas chromatography–mass spectrometry. Eap CB, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):265–72

PHARMACOKINETICS

19F magnetic resonance spectroscopy investigation in vivo of acute and steady–state brain fluvoxamine levels in obsessive–compulsive disorder. Strauss WL, et al. **Am J Psychiatry** 1997 Apr;154(4):516–22

Fluvoxamine in breast–milk and infant development [letter] Yoshida K, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):210–1

Clozapine–fluroxamine interaction [letter; comment] Markowitz JS. **Clin Neuropharmacol** 1997 Jun;20(3):281–2 . Comment on: Clin Neuropharmacol 1996 Aug;19(4):305–13.

Disposition of fluvoxamine in humans is determined by the polymorphic CYP2D6 and also by the CYP1A2 activity. Carrillo JA, et al. **Clin Pharmacol Ther** 1996 Aug; 60(2):183–90

Relationship between fluvoxamine pharmacokinetics and CYP2D6/CYP2C19 phenotype polymorphisms. Spigset O, et al. **Eur J Clin Pharmacol** 1997;52(2):129–33

Clinical pharmacokinetics of fluvoxamine: applications to dosage regimen design. DeVane CL, et al. **J Clin Psychiatry** 1997;58 Suppl 5:7–14 (51 ref.)

A case of fluvoxamine intoxication demonstrating nonlinear elimination pharmacokinetics [letter] Spigset O, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):254–5

The effect of activated charcoal on the absorption of fluoxetine, with special reference to delayed charcoal administration. Laine K, et al. **Pharmacol Toxicol** 1996 Nov; 79(5):270–3

Pharmacokinetic fluvoxamine–clomipramine interaction with favorable therapeutic consequences in therapy–resistant depressive patient. Conus P, et al. **Pharmacopsychiatry** 1996 May;29(3):108–10

PHARMACOLOGY

Distinction of CYP1A1 and CYP1A2 activity by selective inhibition using fluvoxamine and isosafrole. Pastrakuljic A, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):531–8

In vivo inhibition of CYP2C19 but not CYP2D6 by fluvoxamine. Xu ZH, et al. **Br J Clin Pharmacol** 1996 Oct; 42(4):518–21

Influence of the CYP1A2 inhibitor fluvoxamine on tacrine pharmacokinetics in humans. Becquemont L, et al. **Clin Pharmacol Ther** 1997 Jun;61(6):619–27

Fluvoxamine increases the clozapine serum levels significantly. Koponen HJ, et al. **Eur Neuropsychopharmacol** 1996 Mar;6(1):69–71

The antinociceptive effect of fluvoxamine. Schreiber S, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):281–4

Influence of fluvoxamine on tacrine metabolism in vitro: potential implication for the hepatotoxicity in vivo. Becquemont L, et al. **Fundam Clin Pharmacol** 1996; 10(2):156–7

Effects of fluoxetine hydrochloride and fluvoxamine maleate on different preparations of isolated guinea pig and rat organ tissues. Velasco A, et al. **Gen Pharmacol** 1997 Apr; 28(4):509–12

The effect of fluvoxamine on serum prolactin and serum sodium concentrations: relation to platelet 5–HT2A receptor status. Spigset O, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):292–7

Comparative pharmacodynamic studies with the novel serotonin uptake–enhancing tianeptine and –inhibiting fluvoxamine utilizing EEG mapping and psychometry. Saletu B, et al. **J Neural Transm** 1996;103(1–2):191–216

Effect of fluvoxamine on 5–hydroxytryptamine uptake, paroxetine binding sites and ketanserin binding sites in the Japanese monkey brain and platelets, in vivo and in vitro. Goto S, et al. **Jpn J Pharmacol** 1996 Aug;71(4):291–8

Comparative electrophysiological effects of the antidepressants fluvoxamine and amitriptyline in the canine heart after myocardial infarction. Ikeda Y, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):30–7

The degree of inhibition of dopaminergic neurons in the ventral tegmental area induced by selective serotonin reuptake inhibitors is a function of the density–power–spectrum of the interspike interval. Di Mascio M, et al. **Neuroscience** 1997 Aug;79(4):957–61

A fluvoxamine–caffeine interaction study. Jeppesen U, et al. **Pharmacogenetics** 1996 Jun;6(3):213–22

Effects of fluvoxamine and dothiepin on psychomotor abilities in healthy volunteers. Fairweather DB, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):265–9

Effects of fluvoxamine on food intake during rebound hyperphagia in rats. Inoue K, et al. **Physiol Behav** 1997 Apr;61(4):603–8

The effect of chronic fluvoxamine on hormonal and psychological responses to buspirone in normal volunteers. Anderson IM, et al. **Psychopharmacology (Berl)** 1996 Nov; 128(1):74–82

Effects of desipramine and fluvoxamine on timing behavior investigated with the fixed–interval peak procedure and the interval bisection task. Ho MY, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):274–84

Effect of the selective serotonin reuptake inhibitor fluvoxamine on CCK–4 induced panic attacks. van Megen HJ, et al. **Psychopharmacology (Berl)** 1997 Feb; 129(4):357–64

Griseofulvin and fluvoxamine interactions with the metabolism of theophylline. Rasmussen BB, et al. **Ther Drug Monit** 1997 Feb;19(1):56–62

Observations of the interaction between tricyclic antidepressants and fluvoxamine in poor metabolizers of dextromethorphan and mephenytoin [letter] Vandel P, et al. **Therapie** 1997 Jan–Feb;52(1):74–6

THERAPEUTIC USE

Treatment of irritable bowel syndrome with fluvoxamine [letter] Emmanuel NP, et al. **Am J Psychiatry** 1997 May; 154(5):711–2

Fluvoxamine for stereotypic behavior in patients with dementia. Trappler B, et al. **Ann Pharmacother** 1997 May; 31(5):578–81

Comparison of fluvoxamine, imipramine, and placebo in the treatment of outpatients with panic disorder. Nair NP, et al. **Anxiety** 1996;2(4):192–8

A double–blind, placebo–controlled study of fluvoxamine in adults with autistic disorder [see comments] McDougle CJ, et al. **Arch Gen Psychiatry** 1996 Nov;53(11):1001–8. Comment in: Arch Gen Psychiatry 1996 Nov;53(11):980–3.

Plasma prolactin response to d–fenfluramine in obsessive–compulsive patients before and after fluvoxamine treatment. Monteleone P, et al. **Biol Psychiatry** 1997 Aug 1;42(3):175–80

Melatonin secretion during fluvoxamine treatment in medicated chronic schizophrenic patients: evidence for the development of tolerance to selective serotonin re–uptake inhibitor. Silver H, et al. **Biol Psychiatry** 1996 Jul 1; 40(1):75–7

Treatment of nodular prurigo with cyclosporin (treat the disease, not just the symptoms) [letter; comment] Koblenzer CS. **Br J Dermatol** 1996 Aug;135(2):330–1. Comment on: Br J Dermatol 1995 May;132(5):795–9.

Global measures of outcome in a controlled comparison of pharmacological and psychological treatment of panic disorder and agoraphobia in primary care [see comments] Sharp DM, et al. **Br J Gen Pract** 1997 Mar;47(416):150–5 . Comment in: Br J Gen Pract 1997 Mar;47(416):136–7.

Pharmacologic treatment of emotional lability. Iannaccone S, et al. **Clin Neuropharmacol** 1996 Dec;19(6):532–5

Fluvoxamine treatment in clozapine–induced obsessive–compulsive symptoms in schizophrenic patients [see comments] Poyurovsky M, et al. **Clin Neuropharmacol** 1996 Aug;19(4):305–13. Comment in: Clin Neuropharmacol 1997 Jun;20(3):281–2.

Can psychotropic medications change ethnoculturally determined behavior? Jacobsen FM. **Cult Divers Ment Health** 1995;1(1):67–72

Predictive value of obsessive–compulsive personality disorder in antiobsessional pharmacological treatment. Cavedini P, et al. **Eur Neuropsychopharmacol** 1997 Feb; 7(1):45–9

Fluvoxamine versus imipramine and placebo: a double–blind comparison in depressed patients. Fabre L, et al. **Int Clin Psychopharmacol** 1996 Jun;11(2):119–27

Efficacy and tolerability of citalopram in comparison with fluvoxamine in depressed outpatients: a double–blind, multicentre study. The LUCIFER Group. Haffmans PM, et al. **Int Clin Psychopharmacol** 1996 Sep;11(3):157–64

A double–blind study of fluvoxamine and clomipramine in the treatment of obsessive–compulsive disorder. Milanfranchi A, et al. **Int Clin Psychopharmacol** 1997 May; 12(3):131–6

Fluvoxamine in the treatment of body dysmorphic disorder (dysmorphophobia). Perugi G, et al. **Int Clin Psychopharmacol** 1996 Dec;11(4):247–54

Fluvoxamine and lithium in long–term treatment of unipolar subjects with high recurrence rate. Franchini L, et al. **J Affect Disord** 1996 Apr 26;38(1):67–9

Responders and non–responders to drug treatment in social phobia: differences at baseline and prediction of response. Slaap BR, et al. **J Affect Disord** 1996 Jun 20;39(1):13–9

Response to risperidone addition in fluvoxamine–refractory obsessive–compulsive disorder: three cases [letter; comment] Berigan TR, et al. **J Clin Psychiatry** 1996 Dec; 57(12):594–5. Comment on: J Clin Psychiatry 1995 Nov;56(11):526–8.

Fluvoxamine in the treatment of compulsive buying. Black DW, et al. **J Clin Psychiatry** 1997 Apr;58(4):159–63

A double–blind study of long–term treatment with sertraline or fluvoxamine for prevention of highly recurrent unipolar depression. Franchini L, et al. **J Clin Psychiatry** 1997 Mar; 58(3):104–7

Fluvoxamine in the treatment of obsessive–compulsive disorder and related conditions. Goodman WK, et al. **J Clin Psychiatry** 1997;58 Suppl 5:32–49 (200 ref.)

A double–blind comparison of fluvoxamine and paroxetine in the treatment of depressed outpatients. Kiev A, et al. **J Clin Psychiatry** 1997 Apr;58(4):146–52

Issues in the assessment of treatment response in panic disorder with special reference to fluvoxamine. Ninan PT. **J Clin Psychiatry** 1997;58 Suppl 5:24–31 (39 ref.)

Fluvoxamine attenuates panic induced by 35% CO2 challenge. Pols HJ, et al. **J Clin Psychiatry** 1996 Nov; 57(11):539–42

Fluvoxamine: a review of the controlled trials in depression. Ware MR. **J Clin Psychiatry** 1997;58 Suppl 5:15–23 (42 ref.)

Fluvoxamine in prevention of relapse in bulimia nervosa: effects on eating–specific psychopathology. Fichter MM, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):9–18

Efficacy of fluvoxamine, paroxetine, and citalopram in the treatment of obsessive–compulsive disorder: a single–blind study. Mundo E, et al. **J Clin Psychopharmacol** 1997 Aug; 17(4):267–71

Modification of 35% carbon dioxide hypersensitivity across one week of treatment with clomipramine and fluvoxamine: a double–blind, randomized, placebo–controlled study. Perna G, et al. **J Clin Psychopharmacol** 1997 Jun; 17(3):173–8

A comparison of fluvoxamine and fluoxetine in the treatment of major depression. Rapaport M, et al. **J Clin Psychopharmacol** 1996 Oct;16(5):373–8

Correlated reductions in cerebrospinal fluid 5–HIAA and MHPG concentrations after treatment with selective serotonin reuptake inhibitors. Sheline Y, et al.

FLUVOXAMINE

J Clin Psychopharmacol 1997 Feb;17(1):11–4

Fluvoxamine treatment of trichotillomania. Stanley MA, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):278–83

A double-blind comparative study of brofaromine and fluvoxamine in outpatients with panic disorder. van Vliet IM, et al. **J Clin Psychopharmacol** 1996 Aug;16(4):299–306

Buspirone augmentation of fluvoxamine in the treatment of kleptomania. Durst R, et al. **J Nerv Ment Dis** 1997 Sep; 185(9):586–8

Pharmacokinetic fluvoxamine–clomipramine interaction with favorable therapeutic consequences in therapy-resistant depressive patient. Conus P, et al. **Pharmacopsychiatry** 1996 May;29(3):108–10

Effects of fluvoxamine on depression, anxiety, and other areas of general psychopathology in bulimia nervosa. Fichter MM, et al. **Pharmacopsychiatry** 1997 May;30(3):85–92

A double-blind placebo-controlled trial comparing fluvoxamine and imipramine in the treatment of panic disorder with or without agoraphobia. Bakish D, et al. **Psychopharmacol Bull** 1996;32(1):135–41

Non-response to citalopram in depressive patients: pharmacokinetic and clinical consequences of a fluvoxamine augmentation. Bondolfi G, et al. **Psychopharmacology (Berl)** 1996 Dec;128(4):421–5

MHPG and heart rate as correlates of nonresponse to drug therapy in panic disorder patients. A preliminary report. Slaap BR, et al. **Psychopharmacology (Berl)** 1996 Oct; 127(4):353–8

[Evaluating quality of life of depressed patients in ambulatory care treatment] Dazord A, et al. **Encephale** 1996 Jul–Aug; 22(4):247–54 (Eng. Abstr.) **(Fre)**

[A comparative clinical evaluation of the antidepressive activity of fluoxetine and fluvoxamine] Lopukhov IG. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(4):53–7 (Eng. Abstr.) **(Rus)**

FMN

ADMINISTRATION & DOSAGE

Long-term therapy with cytochrome c, flavin mononucleotide and thiamine diphosphate for a patient with Kearns-Sayre syndrome. Nakagawa E, et al. **Brain Dev** 1996 Jan–Feb;18(1):68–70

Treatment of mitochondrial encephalomyopathy with a combination of cytochrome C and vitamins B1 and B2. Tanaka J, et al. **Brain Dev** 1997 Jun;19(4):262–7

ANALOGS & DERIVATIVES

Involvement of a flavin iminoquinone methide in the formation of 6-hydroxyflavin mononucleotide in trimethylamine dehydrogenase: a rationale for the existence of 8alpha-methyl and C6-linked covalent flavoproteins. Mewies M, et al. **Biochemistry** 1997 Jun 10;36(23):7162–8

ANALYSIS

Determination of nitric oxide synthase cofactors: heme, FAD, FMN, and tetrahydrobiopterin. Klatt P, et al. **Methods Enzymol** 1996;268:358–65

CHEMISTRY

Bovine kidney low molecular weight acid phosphatase: FMN-dependent kinetics. Granjeiro JM, et al. **Biochem Mol Biol Int** 1997 May;41(6):1201–8

Flavin mononucleotide-binding domain of the flavoprotein component of the sulfite reductase from Escherichia coli. Coves J, et al. **Biochemistry** 1997 May 13;36(19):5921–8

Evaluation of the electrostatic effect of the 5'-phosphate of the flavin mononucleotide cofactor on the oxidation—reduction potentials of the flavodoxin from desulfovibrio vulgaris (Hildenborough). Zhou Z, et al. **Biochemistry** 1996 Sep 24;35(38):12443–54

FMN cofactor dissociation from the soluble hydrogenase of Alcaligenes eutrophus H16. Axley MJ, et al. **Biofactors** 1995–96;5(2):87–92

Electron transfer between the FMN and heme domains of cytochrome P450BM-3. Effects of substrate and CO. Hazzard JT, et al. **J Biol Chem** 1997 Mar 21;272(12):7922–6

Determining covalent flavinylation. Decker K, et al. **Methods Enzymol** 1997;280:413–23

Three-dimensional structure of NADPH-cytochrome P450 reductase: prototype for FMN- and FAD-containing enzymes. Wang M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8411–6

METABOLISM

The interaction of NADPH-P450 reductase with P450: an electrochemical study of the role of the flavin mononucleotide-binding domain. Estabrook RW, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):308–15

Flavin mononucleotide-binding domain of the flavoprotein component of the sulfite reductase from Escherichia coli. Coves J, et al. **Biochemistry** 1997 May 13;36(19):5921–8

Involvement of a flavin iminoquinone methide in the formation of 6-hydroxyflavin mononucleotide in trimethylamine dehydrogenase: a rationale for the existence of 8alpha-methyl and C6-linked covalent flavoproteins. Mewies M, et al. **Biochemistry** 1997 Jun 10;36(23):7162–8

Flavin reductase P: structure of a dimeric enzyme that reduces flavin. Tanner JJ, et al. **Biochemistry** 1996 Oct 22; 35(42):13531–9

The cumulative electrostatic effect of aromatic stacking interactions and the negative electrostatic environment of the flavin mononucleotide binding site is a major determinant of the reduction potential for the flavodoxin from Desulfovibrio vulgaris [Hildenborough]. Zhou Z, et al. **Biochemistry** 1996 Dec 17;35(50):15980–8

Studies with flavin analogs provide evidence that a protonated reduced FMN is the substrate-induced transient intermediate in the reaction of Escherichia coli chorismate synthase. Macheroux P, et al. **J Biol Chem** 1996 Oct 18; 271(42):25850–8

The B form of dihydroorotate dehydrogenase from Lactococcus lactis consists of two different subunits, encoded by the pyrDb and pyrK genes, and contains FMN, FAD, and [FeS] redox centers. Nielsen FS, et al. **J Biol Chem** 1996 Nov 15;271(46):29359–65

FMRI see **MAGNETIC RESONANCE IMAGING**

FMS GENES see **GENES, FMS**

FMS ONCOGENE PROTEIN GP120 see **ONCOGENE PROTEIN GP140(V-FMS)**

FMS ONCOGENE PROTEIN GP140 see **ONCOGENE PROTEIN GP140(V-FMS)**

FMS PROTO-ONCOGENE PROTEIN see **RECEPTORS, MACROPHAGE COLONY-STIMULATING FACTOR**

FOAM CELLS

Possibility of defense against colorectal tumor by foamy cells. Hirota S, et al. **J Clin Gastroenterol** 1997 Mar;24(2):82–6

CHEMISTRY

Iron in human atheroma and LDL oxidation by macrophages following erythrophagocytosis. Yuan XM, et al. **Atherosclerosis** 1996 Jul;124(1):61–73

DRUG EFFECTS

PSK protects macrophages from lipoperoxide accumulation and foam cell formation caused by oxidatively modified low-density lipoprotein. Yuan C, et al. **Atherosclerosis** 1996 Aug 2;124(2):171–81

Regulatory effects of aggregated LDL on apoptosis during foam cell formation of human peripheral blood monocytes. Kubo N, et al. **FEBS Lett** 1997 Jun 9;409(2):177–82

METABOLISM

Downregulation of the selectin ligand-producing fucosyltransferases Fuc-TIV and Fuc-TVII during foam cell formation in monocyte-derived macrophages. Cullen P, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug; 17(8):1591–8

Lysophosphatidylcholine promotes cholesterol efflux from mouse macrophage foam cells. Hara S, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1258–66

Endothelin-1 is increased overlying atherosclerotic plaques in human arteries [published erratum appears in Atherosclerosis 1996 Oct 25;126(2):345–6] Jones GT, et al. **Atherosclerosis** 1996 Jul;124(1):25–35

Remodeling of HDL containing apoA-I but not apoA-II (LpA-I) by lipoprotein-deficient plasma and hepatic lipase: its effect on the structure and cellular cholesterol-reducing capacity of LpA-I. Ohta T, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):137–44

Functional and possible physical association of scavenger receptor with cytoplasmic tyrosine kinase Lyn in monocytic THP-1-derived macrophages. Miki S, et al. **FEBS Lett** 1996 Dec 16;399(3):241–4

Cholesteryl ester accumulation in foam cells and extracellular space of atherosclerotic lesions. Takano T. **J Atheroscler Thromb** 1994;1 Suppl 1:S1–5 (18 ref.)

Cyclodextrins as catalysts for the removal of cholesterol from macrophage foam cells. Atger VM, et al. **J Clin Invest** 1997 Feb 15;99(4):773–80

Cholesterol deposition in macrophages: foam cell formation mediated by cholesterol-enriched oxidized low density lipoprotein. Greenspan P, et al. **J Lipid Res** 1997 Jan; 38(1):101–9

Connexin43 gene expression in the rabbit arterial wall: effects of hypercholesterolemia, balloon injury and their combination. Polacek D, et al. **J Vasc Res** 1997 Jan–Feb; 34(1):19–30

Regulation, location and activity of plasminogen activator inhibitor 2 (PAI-2) in peripheral blood monocytes, macrophages and foam cells. Ritchie H, et al. **Thromb Haemost** 1997 Jun;77(6):1168–73

[Distribution and quantification of oxidative low density lipoprotein in the development of atherosclerotic lesions of human aorta] Mao Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):224–7 (Eng. Abstr.) **(Chi)**

PARASITOLOGY

Foamy macrophages in acquired immunodeficiency syndrome cholangiopathy with Encephalitozoon intestinalis. Liberman E, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):985–8

PATHOLOGY

The problematic interpretation of foamy cells in breast fine needle aspirates. A report of two cases. Gottschalk-Sabag S, et al. **Acta Cytol** 1997 Mar–Apr;41(2):561–4

A comparison of the quantitation of macrophage foam cell populations and the extent of apolipoprotein E deposition in developing atherosclerotic lesions in young people: high and low serum thiocyanate groups as an indication of smoking. PDAY Research Group. Pathobiological Determinants of Atherosclerosis in Youth. Botti TP, et al. **Atherosclerosis** 1996 Aug 2;124(2):191–202

Luminal foam cell accumulation is associated with smooth muscle cell death in the intimal thickening of human saphenous vein grafts. Kockx MM, et al. **Circulation** 1996 Sep 15;94(6):1255–62

Evidence that the initial up-regulation of phosphatidylcholine biosynthesis in free cholesterol-loaded macrophages is an adaptive response that prevents cholesterol-induced cellular necrosis. Proposed role of an eventual failure of this response in foam cell necrosis in advanced atherosclerosis. Tabas I, et al. **J Biol Chem** 1996 Sep 13;271(37):22773–81

Glomerular lipid deposition and proteinuria in a patient with familial dysbetalipoproteinaemia. Balson KR, et al. **J Intern Med** 1996 Sep;240(3):157–9

Foam cell apoptosis and the development of the lipid core of human atherosclerosis. Hegyi L, et al. **J Pathol** 1996 Dec;180(4):423–9

Effect of policosanol on foam-cell formation in carrageenan-induced granulomas in rats. Noa M, et al. **J Pharm Pharmacol** 1996 Mar;48(3):306–9

PHYSIOLOGY

The receptor for advanced glycation end products mediates the chemotaxis of rabbit smooth muscle cells. Higashi T, et al. **Diabetes** 1997 Mar;46(3):463–72

Effect of uniaxial, cyclic stretch on the morphology of monocytes/macrophages in culture. Matsumoto T, et al. **J Biomech Eng** 1996 Aug;118(3):420–2

Reactive oxygen species produced by macrophage-derived foam cells regulate the activity of vascular matrix metalloproteinases in vitro. Implications for atherosclerotic plaque stability. Rajagopalan S, et al. **J Clin Invest** 1996 Dec 1;98(11):2572–9

FOAM RETARDANTS see **ANTIFOAMING AGENTS**

FOAMY VIRUS see **SPUMAVIRUS**

FOCAL DERMAL HYPOPLASIA

COMPLICATIONS

Focal dermal hypoplasia (Goltz syndrome) associated with intestinal malrotation and mediastinal dextroposition. Irvine AD, et al. **Am J Med Genet** 1996 Mar 29;62(3):213–5

Oculocerebrocutaneous syndrome: a case report, a follow-up, and differential diagnostic considerations. Moog U, et al. **Genet Couns** 1996;7(4):257–65

DIAGNOSIS

Focal dermal hypoplasia (Goltz syndrome) presenting as a severe fetal malformation syndrome. Patel JS, et al. **Clin Dysmorphol** 1997 Jul;6(3):267–72

ETIOLOGY

Patchy dermal hypoplasia as a characteristic feature of Proteus syndrome. Happle R, et al. **Arch Dermatol** 1997 Jan;133(1):77–80

GENETICS

Focal dermal hypoplasia (Goltz syndrome) with vertebral solid aneurysmal bone cyst variant. A case report. D'Alise MD, et al. **Pediatr Neurosurg** 1996;24(3):151–4

METABOLISM

Focal dermal hypoplasia (Goltz syndrome): a decreased accumulation of hyaluronic acid in three-dimensional culture. Sato M, et al. **Acta Derm Venereol** 1996 Sep; 76(5):365–7

PATHOLOGY

Palmar papillomatous lesions reminiscent of epidermal nevus in a case of focal dermal hypoplasia: a nosological consideration. van der Steen PH, et al. **Dermatology** 1996; 193(2):147–8

Electronmicroscopic observation of the basement membrane zone in focal dermal hypoplasia. Lee IJ, et al. **Pediatr Dermatol** 1996 Jan–Feb;13(1):5–9 (18 ref.)

[Elastolysis of the mid-dermis and annular elastolytic giant cell granuloma: different stages in the clinical spectrum of dermal elastolysis? Case report and review of the literature] Hohenleutner S, et al. **Hautarzt** 1997 Jan; 48(1):45–50 (Eng. Abstr.) **(Ger)**

FOCAL EPITHELIAL HYPERPLASIA

GENETICS

[Focal epithelial hyperplasia (Heck's disease) in a Turkish family] Weidner F. **Hautarzt** 1996 Dec;47(12):927–9 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Correspondence re: Nucci MR, Genest DR, Tate JE, Sparks CK, Crum CP: pseudobowenoid vulvar change: untreated condyloma acuminatum. Mod Pathol 9:375, 1996 [letter; comment] LeBoit PE. **Mod Pathol** 1996 Aug;9(8):870–. Comment on: Mod Pathol 1996 Apr;9(4):375–9.

Correspondence re: Nucci MR, Genest DR, Tate JE, Sparks CK, Crum CP: pseudobowenoid vulvar change: untreated condyloma acuminatum. Mod Pathol 9:375, 1996 [letter; comment] Slater LJ. **Mod Pathol** 1996 Aug;9(8):871. Comment on: Mod Pathol 1996 Apr;9(4):375–9.

VIROLOGY

Focal epithelial hyperplasia (Heck disease) associated with AIDS. Viraben R, et al. **Dermatology** 1996;193(3):261–2

FOCAL INFECTION

CLASSIFICATION

Classifying extraintestinal non–typhoid Salmonella infections. Ramos JM, et al. **QJM** 1996 Feb;89(2):123–6

COMPLICATIONS

Salvage of the septic ankle with concomitant tibial osteomyelitis. Thordarson DB, et al. **Foot Ankle Int** 1997 Mar;18(3):151–6

Focal lesion of African histoplasmosis presenting as a malignant gastric ulcer. Sanguino JC, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):771–5

Intracranial complications of sinusitis. Giannoni CM, et al. **Laryngoscope** 1997 Jul;107(7):863–7

Suppurative thrombophlebitis in children: a ten–year experience. Khan EA, et al. **Pediatr Infect Dis J** 1997 Jan; 16(1):63–7

IMMUNOLOGY

Detection of streptococcal class I M protein in psoriasis by confocal immunofluorescent microscopy. Talanin NY, et al. **Acta Derm Venereol** 1997 May;77(3):175–80

MICROBIOLOGY

[The dependence of the clinical course of acute hematogenic osteomyelitis in children on the type and number of microorganisms in the lesion focus] Rusak PS, et al. **Klin Khir** 1996;(7):32–3 **(Rus)**

RADIOGRAPHY

Cytomegalovirus pneumonia manifesting as a focal mass in acquired immunodeficiency syndrome. Fishman JE, et al. **South Med J** 1996 Nov;89(11):1121–2

RADIONUCLIDE IMAGING

The clinical use of 99m–Tc–labeled WBC scintigraphy in critically ill surgical and trauma patients with occult sepsis. Minoja G, et al. **Intensive Care Med** 1996 Sep;22(9):867–71

Optimization of technetium–99m–labeled PEG liposomes to image focal infection: effects of particle size and circulation time. Boerman OC, et al. **J Nucl Med** 1997 Mar; 38(3):489–93

Preclinical studies of indium–111–labeled IgM: a human monoclonal antibody for infection imaging. Subramanian R, et al. **J Nucl Med** 1997 Jul;38(7):1054–9

SURGERY

[The simultaneous sanative treatment of foci of odontogenic and cardiogenic infections during the surgical treatment of septic endocarditis] Shelkovskiĭ VN, et al. **Stomatologiia (Mosk)** 1996;Spec No:92–3 **(Rus)**

THERAPY

Salvage of the septic ankle with concomitant tibial osteomyelitis. Thordarson DB, et al. **Foot Ankle Int** 1997 Mar;18(3):151–6

FOCAL INFECTION, DENTAL

Anatomical considerations in the diagnosis and management of acute maxillofacial bacterial infections. Bridgeman A, et al. **Aust Dent J** 1996 Aug;41(4):238–45 (33 ref.)

Focal infection. Newman HN. **J Dent Res** 1996 Dec; 75(12):1912–9 (169 ref.)

Mortality associated with cervicofacial necrotizing fasciitis. Roberson JB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):264–7

BLOOD

Oral infections in home–living elderly patients admitted to an acute geriatric ward. Meurman JH, et al. **J Dent Res** 1997 Jun;76(6):1271–6

COMPLICATIONS

Serious complications of endodontic infections: some cautionary tales. Walsh LJ. **Aust Dent J** 1997 Jun; 42(3):156–9 (32 ref.)

Oral infections in home–living elderly patients admitted to an acute geriatric ward. Meurman JH, et al. **J Dent Res** 1997 Jun;76(6):1271–6

Cervical cellulitis with mediastinitis from an odontogenic infection complicated by diabetes mellitus: report of a case. Sugata T, et al. **J Oral Maxillofac Surg** 1997 Aug; 55(8):864–9 (14 ref.)

Recurrent vertebral osteomyelitis and psoas abscess caused by Streptococcus constellatus and Fusobacterium nucleatum in a patient with atrial septal defect and an occult dental infection. Wang TD, et al. **Scand J Infect Dis** 1996;28(3):309–10

[Chronic oral infections—a threat to health?] Meurman JH, et al. **Duodecim** 1995;111(14):1348–54 (38 ref.) **(Fin)**

[Retroperitoneal abscess from odontogenic infection. Clinical case] Pelizzo G, et al. **Minerva Chir** 1997 Jan–Feb; 52(1–2):129–30 (Eng. Abstr.) **(Ita)**

[Pleural empyema as a complication of descending necrotizing mediastinitis] Sobolewska E, et al. **Pneumonol Alergol Pol** 1997;65(5–6):364–9 (Eng. Abstr.) **(Pol)**

[The diagnosis and treatment of complications in acute odontogenic infection] Gubin MA, et al. **Stomatologiia (Mosk)** 1996;Spec No:39–40 **(Rus)**

[Mediastinitis—a severe complication of acute odontogenic inflammatory processes of the maxillofacial area] Nikitin AA, et al. **Stomatologiia (Mosk)** 1996;Spec No:70–1 **(Rus)**

DIAGNOSIS

[Severe acute dental infections] Lindqvist C, et al. **Duodecim** 1995;111(14):1338–47 (39 ref.) **(Fin)**

[The atypical and chronic course of suppurative inflammatory diseases of the maxillofacial area and the diagnostic and treatment methods] Fomichev EV, et al. **Stomatologiia (Mosk)** 1996;Spec No:85–6 **(Rus)**

[The diagnosis and treatment of complications in acute odontogenic infection] Gubin MA, et al. **Stomatologiia (Mosk)** 1996;Spec No:39–40 **(Rus)**

[The characteristics of managing and treating patients with suppurative–inflammatory processes of the maxillofacial area and diabetes mellitus] Ivasenko PI, et al. **Stomatologiia (Mosk)** 1996;Spec No:58–9 **(Rus)**

[The clinico–immunological diagnosis, prognosis and treatment follow–up in odontogenic abscesses, phlegmons and lymphadenitis] Kazimirskiĭ VA, et al. **Stomatologiia (Mosk)** 1996;Spec No:60 **(Rus)**

[The importance of the immunogram for the prognosis of the course of odontogenic inflammatory diseases and of the performance of immunotherapy] Lebedev KA, et al. **Stomatologiia (Mosk)** 1996;Spec No:65 **(Rus)**

[The diagnosis of disseminated phlegmons and their complications and a strategy for their combined treatment] Robustova TG, et al. **Stomatologiia (Mosk)** 1996;Spec No:74–5 **(Rus)**

[The diagnosis and treatment of contact odontogenic mediastinitis] Robustova TG, et al. **Stomatologiia (Mosk)** 1996;75(6):28–32 (Eng. Abstr.) **(Rus)**

[The diagnosis and treatment of odontogenic mediastinitis] Gubin MA, et al. **Vestn Khir Im I I Grek** 1996;155(3):12–5 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

[Drug stimulation of the healing of suppurative wounds of the maxillofacial area] Agapov VS, et al. **Stomatologiia (Mosk)** 1996;Spec No:41–2 **(Rus)**

[The experimental evaluation of the efficacy of using a Rhodiola rosea extract for treating odontogenic inflammatory diseases] Alekhova TM, et al. **Stomatologiia (Mosk)** 1996;Spec No:42–3 **(Rus)**

[Tactivin in the combined treatment of acute inflammatory diseases of the maxillofacial area] Bazhanov NN, et al. **Stomatologiia (Mosk)** 1996;75(2):31–3 (Eng. Abstr.) **(Rus)**

[The immunomodulating therapy of odontogenic phlegmons with complexes of antibacterial preparations and water–soluble polymers for medical use] Tsarev VN, et al. **Stomatologiia (Mosk)** 1996;Spec No:88 **(Rus)**

[The problem of the antibacterial therapy of inflammatory diseases of the maxillofacial area] Ushakov RV, et al. **Stomatologiia (Mosk)** 1996;Spec No:84 **(Rus)**

ECONOMICS

Risk factors affecting hospital length of stay in patients with odontogenic maxillofacial infections. Peters ES, et al. **J Oral Maxillofac Surg** 1996 Dec;54(12):1386–91; discussion 1391–2

ENZYMOLOGY

[The urease activity of the saliva in patients with acute odontogenic infection of the maxillofacial area] Gavrikova LM, et al. **Stomatologiia (Mosk)** 1996;Spec No:49–50 **(Rus)**

EPIDEMIOLOGY

[Odontogenic inflammatory processes in children based on data from the Pediatric Dentistry Clinic of the Perm State Medical Academy] Simanovskaia Elu, et al. **Stomatologiia (Mosk)** 1996;Spec No:77–8 **(Rus)**

ETIOLOGY

Incidence of infections requiring hospitalization associated with partially erupted third molars. Berge TI. **Acta Odontol Scand** 1996 Oct;54(5):309–13

Incidence of large third–molar–associated cystic lesions requiring hospitalization. Berge TI. **Acta Odontol Scand** 1996 Oct;54(5):327–31

[The role of the microflora infecting the dentin in caries and its complications in the development and spread of acute odontogenic and cross infectious diseases] Kunin AA, et al. **Stomatologiia (Mosk)** 1996;Spec No:62–3 **(Rus)**

IMMUNOLOGY

[The evaluation of the status of the body's protective mechanisms in the clinical picture of odontogenic inflammatory diseases] Leonova LE, et al. **Stomatologiia (Mosk)** 1996;Spec No:65–6 **(Rus)**

MICROBIOLOGY

Recurrent vertebral osteomyelitis and psoas abscess caused by Streptococcus constellatus and Fusobacterium nucleatum in a patient with atrial septal defect and an occult dental infection. Wang TD, et al. **Scand J Infect Dis** 1996;28(3):309–10

[The importance of microbiological study in the therapy of odontogenic abscesses. A report of a clinical case] Bux P, et al. **Minerva Stomatol** 1996 May;45(5):227–30 (10 ref.) (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

[Homeostatic disorders and their correction in a program of combined treatment in odontogenic sepsis] Kharitonov IuM, et al. **Stomatologiia (Mosk)** 1996;Spec No:86–7 **(Rus)**

PREVENTION & CONTROL

[The status and outlook in the prevention and treatment of suppurative inflammatory diseases of the maxillofacial area] Bazhanov NN, et al. **Stomatologiia (Mosk)** 1997;76(2):15–9 **(Rus)**

[The prevention of odontogenic inflammatory diseases in children by improving the diagnosis and treatment of deep caries] Suntsov VG, et al. **Stomatologiia (Mosk)** 1996;Spec No:80–1 **(Rus)**

[Means for preventing odontogenic inflammatory diseases in servicemen of the Armed Forces] Valin VN, et al. **Stomatologiia (Mosk)** 1996;Spec No:45–6 **(Rus)**

RADIOGRAPHY

Odontogenic versus nonodontogenic deep neck space infections: CT manifestations. Kim HJ, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):202–8

REHABILITATION

[The use of physiotherapeutic factors in the combined treatment of patients with diseases of the maxillofacial area] Ivasenko PI, et al. **Stomatologiia (Mosk)** 1996;Spec No:59–60 **(Rus)**

SURGERY

[The differentiated surgical treatment of odontogenic maxillary sinusitis] Aniutin RG, et al. **Stomatologiia (Mosk)** 1996;Spec No:43 **(Rus)**

[The treatment of foci of chronic odontogenic infection by using the pulsed periodic CO2 laser scalpel] Bazikian EA. **Stomatologiia (Mosk)** 1996;Spec No:45 **(Rus)**

[The treatment of patients with odontogenic maxillary sinusitis at a dental polyclinic] Bogatov AI. **Stomatologiia (Mosk)** 1996;Spec No:47 **(Rus)**

[The simultaneous sanative treatment of foci of odontogenic and cardiogenic infections during the surgical treatment of septic endocarditis] Shelkovskiĭ VN, et al. **Stomatologiia (Mosk)** 1996;Spec No:92–3 **(Rus)**

THERAPY

[Methods of efferent therapy in the combined treatment of contact odontogenic mediastinitis] Girko EI, et al. **Stomatologiia (Mosk)** 1996;Spec No:50 **(Rus)**

[The endogenous intoxication syndrome and the procedure for detoxication therapy in the treatment of suppurative diseases of the face and neck] Gubin MA, et al. **Stomatologiia (Mosk)** 1996;75(4):23–7 (Eng. Abstr.) **(Rus)**

[The efficacy of using ozone in the combined treatment of disseminated odontogenic phlegmons of the maxillofacial area] Kiniapina ID, et al. **Stomatologiia (Mosk)** 1996;Spec No:60–1 **(Rus)**

[The use of ozonized solutions in the combined treatment of odontogenic putrefactive–necrotic phlegmons of the maxillofacial area and neck] Lazutikov OV, et al. **Stomatologiia (Mosk)** 1996;Spec No:64–5 **(Rus)**

[Dental care for the pediatric population in the city of Moscow with inflammatory diseases] Roginskiĭ VV, et al.

FOCAL INFECTION, DENTAL

Stomatologiia (Mosk) 1996;Spec No:40 **(Rus)**

FOCUS GROUPS

Insights into medical students' career choices based on third- and fourth-year students' focus-group discussions. Mutha S, et al. **Acad Med** 1997 Jul;72(7):635–40

Determining the information needs of women after breast biopsy procedures. Deane KA, et al. **AORN J** 1997 Apr; 65(4):767–72, 775–6

Re: Reconcilable differences: the marriage of qualitative and quantitative methods [letter; comment] Brooks SA. **Can J Psychiatry** 1997 Jun;42(5):529–30. Comment on: Can J Psychiatry 1996 Oct;41(8):491–7.

Focus groups: a useful tool for curriculum evaluation. Frasier PY, et al. **Fam Med** 1997 Jul–Aug;29(7):500–7

Coping with chronic low back pain: an idiographic exploration through focus groups. Strong J, et al. **Int J Psychiatry Med** 1995;25(4):371–87

Focus groups in mental health research: enhancing the validity of user and provider questionnaires. Powell RA, et al. **Int J Soc Psychiatry** 1996 Autumn;42(3):193–206

Using focus group methodology to develop breast cancer screening programs that recruit African American women. Williams GA, et al. **J Community Health** 1997 Feb; 22(1):45–56

Ethical reasoning in mixed nurse–physician groups. Holm S, et al. **J Med Ethics** 1996 Jun;22(3):168–73

Focus groups: their use in administrative research. Crawford M, et al. **J Nurs Adm** 1997 May;27(5):15–8

Nursing education: focus on flexibility. Clark MJ. **J Nurs Educ** 1997 Mar;36(3):108–13

Genetic testing for susceptibility to breast cancer: findings from women's focus groups. Tessaro I, et al. **J Womens Health** 1997 Jun;6(3):317–27

Quality of life in breast cancer survivors as identified by focus groups. Ferrell BR, et al. **Psychooncology** 1997 Mar; 6(1):13–23

Focus groups as a path to clinical knowledge about the acutely and severely ill child. Malterud K, et al. **Scand J Prim Health Care** 1997 Mar;15(1):26–9

Using a focus group of clinicians to develop a research project on therapeutic process for clients with dual diagnoses. Loneck B, et al. **Soc Work** 1997 Jan;42(1):107–11

[Focus groups: preliminary experiences in educational health programs in Brazil] Westphal MF, et al. **Bol Oficina Sanit Panam** 1996 Jun;120(6):472–82 (Eng. Abstr.) **(Por)**

METHODS

Focus group methodology in the development of a survey to measure physician use of cancer staging systems. Ashbury FD, et al. **Can J Oncol** 1995 Jul;5(2):361–8

Planning a health education programme for the elderly visually impaired person—a focus group study. Ivanoff SD, et al. **Disabil Rehabil** 1996 Oct;18(10):515–22

Critical factors in the determination of focus group size. Tang KC, et al. **Fam Pract** 1995 Dec;12(4):474–5 (13 ref.)

Focus groups. Powell RA, et al. **Int J Qual Health Care** 1996 Oct;8(5):499–504 (10 ref.)

Focus groups: an exciting approach to clinical nursing research. Gulanick M, et al. **Prog Cardiovasc Nurs** 1997 Spring;12(2):24–9 (24 ref.)

[Potential application of the qualitative technique focus group in substance abuse research] Carlini-Cotrim B. **Rev Saude Publica** 1996 Jun;30(3):285–93 (Eng. Abstr.) **(Por)**

STANDARDS

A methodology to maximize resident input in improving a pediatric rotation. Fein JA, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):840–4

FOG FEVER see **PNEUMONIA, ATYPICAL INTERSTITIAL, OF CATTLE**

FOGARTY BALLOON CATHETERIZATION see **BALLOON DILATATION**

FOLATE CONJUGASE see **PTEROYL POLYGLUTAMATE HYDROLASE**

FOLATE POLYGLUTAMATES see **PTEROYLPOLYGLUTAMIC ACIDS**

FOLEY BALLOON CATHETERIZATION see **BALLOON DILATATION**

FOLIC ACID

Folic acid and the prevention of birth defects. Butterworth CE Jr, et al. **Annu Rev Nutr** 1996;16:73–97 (91 ref.)

From the Centers for Disease Control and Prevention. Knowledge and use of folic acid by women of childbearing age—United States, 1997. **JAMA** 1997 Sep 17; 278(11):892–3

Folate supplementation and the risk of masking vitamin B12 deficiency [letter; comment] Brantigan CO. **JAMA** 1997 Mar 19;277(11):884–5. Comment on: JAMA 1996 Dec 18;276(23):1879–85.

Predictors of red cell folate level in women attempting pregnancy. Brown JE, et al. **JAMA** 1997 Feb 19; 277(7):548–52

Folic acid fortification of the food supply. Potential benefits and risks for the elderly population [see comments] [published erratum appears in JAMA 1997 Mar 5;277(9):714] Tucker KL, et al. **JAMA** 1996 Dec 18; 276(23):1879–85. Comment in: JAMA 1997 Mar 19;277(11):884–5.

The B4–you–conceive pill [letter] [see comments] Wald N. **Lancet** 1996 Nov 23;348(9039):1460. Comment in: Lancet 1997 Jan 25;349(9047):289.

Knowledge and use of folic acid by women of childbearing age—United States, 1997. **MMWR Morb Mortal Wkly Rep** 1997 Aug 8;46(31):721–3

Knowledge about folic acid and use of multivitamins containing folic acid among reproductive-aged women—Georgia, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Sep 20;45(37):793–5

Folic acid and food fortification: implications for the primary care practitioner. Tinkle M. **Nurse Pract** 1997 Mar; 22(3):105–6, 109, 112–4 (42 ref.)

Folic acid and neural tube defects. Minns RA. **Spinal Cord** 1996 Aug;34(8):460–5 (42 ref.)

FDA requires manufacturers to fortify grain products with folic acid. Scruggs R. **Tenn Med** 1997 Feb;90(2):60, 64

ADMINISTRATION & DOSAGE

The relationship between maternal dietary intake and infant birthweight. Neggers YH, et al. **Acta Obstet Gynecol Scand Suppl** 1997;165:71–5

Weekly micronutrient supplementation to build iron stores in female Indonesian adolescents. Angeles-Agdeppa I, et al. **Am J Clin Nutr** 1997 Jul;66(1):177–83

Call for endorsement of a petition to the Food and Drug Administration to always add vitamin B-12 to any folate fortification or supplement [see comments] Herbert V, et al. **Am J Clin Nutr** 1997 Feb;65(2):572–3. Comment in: Am J Clin Nutr 1997 Aug;66(2):450–1.

Vitamin B-12 fortification of folate-enriched grain products [letter; comment] Lavine JB. **Am J Clin Nutr** 1997 Aug; 66(2):450–1. Comment on: Am J Clin Nutr 1997 Feb;65(2):572–3.

Kinetic modeling of folate metabolism through use of chronic administration of deuterium-labeled folic acid in men [see comments] Stites TE, et al. **Am J Clin Nutr** 1997 Jan; 65(1):53–60. Comment in: Am J Clin Nutr 1997 Jan;65(1):162–3.

NTD phenotypes in infants and fetuses whose mothers used multivitamins containing folic acid in early pregnancy compared to those who did not [letter] Shaw GM, et al. **Am J Med Genet** 1997 Jun 13;70(3):330–1

Vitamin intake: a possible determinant of plasma homocyst(e)ine among middle-aged adults. Shimakawa T, et al. **Ann Epidemiol** 1997 May;7(4):285–93

Folic acid–polylysine carrier improves efficacy of c-myc antisense oligodeoxynucleotides on human melanoma (M14) cells. Ginobbi P, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):29–35

Guidelines for folate supplementation in rheumatoid arthritis patients treated with methotrexate: comment on the guidelines for monitoring drug therapy [letter] Alarcón GS, et al. **Arthritis Rheum** 1997 Feb;40(2):391; discussion 391–2

Dietary folate and folylpolyglutamate synthetase activity in normal and neoplastic murine tissues and human tumor xenografts. Gates SB, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1477–9

Transfection of folate-polylysine DNA complexes: evidence for lysosomal delivery. Mislick KA, et al. **Bioconjug Chem** 1995 Sep–Oct;6(5):512–5

Knowledge about folic acid and the prevention of neural tube defects in two general practice populations. Krischer J. **Br J Gen Pract** 1997 Apr;47(417):231–2

The prevention of neural tube defects in post-partum women [letter] Wild J, et al. **Br J Gen Pract** 1997 Feb;47(415):123

Unpredictable intra-individual variations in serum homocysteine levels on folic acid supplementation. Santhosh-Kumar CR, et al. **Eur J Clin Nutr** 1997 Mar; 51(3):188–92

Folate intake in young women and their knowledge of preconceptional folate supplementation to prevent neural tube defects. Wild J, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27;70(2):185–9

The effect of folic acid supplementation on the risk for cancer or dysplasia in ulcerative colitis. Lashner BA, et al. **Gastroenterology** 1997 Jan;112(1):29–32

Dietary folate protects against the development of macroscopic colonic neoplasia in a dose responsive manner in rats. Kim YI, et al. **Gut** 1996 Nov;39(5):732–40

Folate nutrition and older adults: challenges and opportunities. Koehler KM, et al. **J Am Diet Assoc** 1997 Feb;97(2):167–73 (57 ref.)

A 1997 Mother's Day message for your patients: "folic acid—make it a habit" [news] **J Okla State Med Assoc** 1997 Mar;90(3):114

Knowledge and use of periconceptual folic acid supplements by British Forces Germany personnel and dependents. Roberts LJ. **J R Army Med Corps** 1996 Oct;142(3):116–9

Fortifying food with folic acid [letter] Johnston RB Jr, et al. **J Womens Health** 1997 Apr;6(2):233–4

Folate awareness among South American women [letter] Castilla EE, et al. **Lancet** 1997 Mar 8;349(9053):735

Thermolabile variant of 5,10-methylenetetrahydrofolate reductase associated with low red-cell folates: implications for folate intake recommendations. Molloy AM, et al. **Lancet** 1997 May 31;349(9065):1591–3

Folic acid supplementation improves erythropoietin response [letter] Pronai W. **Nephron** 1997;76(1):120

Folate and alcohol intakes: related or independent roles in the adenoma-carcinoma sequence? Boutron-Ruault MC, et al. **Nutr Cancer** 1996;26(3):337–46

Folic acid fortification. **Nutr Rev** 1996 Mar;54(3):94–5 (4 ref.)

Preventing neural tube defects. Buehler JW, et al. **Pediatr Ann** 1997 Sep;26(9):535–9 (17 ref.)

Folate requirements for health in women. McNulty H. **Proc Nutr Soc** 1997 Mar;56(1B):291–303 (86 ref.)

Plasma homocysteine, a risk factor for cardiovascular disease, is lowered by physiological doses of folic acid. Ward M, et al. **QJM** 1997 Aug;90(8):519–24

Influence of dietary folic acid on the developmental toxicity of methanol and the frequency of chromosomal breakage in the CD-1 mouse. Fu SS, et al. **Reprod Toxicol** 1996 Nov–Dec;10(6):455–63

Doubling the number of women consuming vitamin supplement pills containing folic acid: an urgently needed birth defect prevention complement to the folic acid fortification of cereal grains. Oakley GP Jr. **Reprod Toxicol** 1997 Jul–Aug;11(4):579–81

Population-based case control study of folic acid supplementation during pregnancy. Czeizel AE, et al. **Teratology** 1996 Jun;53(6):345–51

Caution advised before rushing to start folic acid supplements [letter] Klein NW. **Teratology** 1996 Jun;53(6):331

[Peri-conceptional multivitamin administration may result in higher frequency of twin pregnancies] Métneki J, et al. **Orv Hetil** 1996 Oct 27;137(43):2401–5 (Eng. Abstr.) **(Hun)**

[An adult case of homocystinuria probably due to methylenetetrahydrofolate-reductase deficiency—treatment with folic acid and the course of coagulation-fibrinolysis parameters] Hamano H, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):330–5 (Eng. Abstr.) **(Jpn)**

[Peri-conception use of folic acid in the prevention of neural tube defect: current concepts] García-Morales MA, et al. **Ginecol Obstet Mex** 1996 Sep;64:418–21 (Eng. Abstr.) **(Spa)**

[Calcium and folic acid are delicate knotty questions] Bruce A. **Lakartidningen** 1997 May 21;94(21):1993–6 **(Swe)**

ANALOGS & DERIVATIVES

Prodrugs of thymidylate synthase inhibitors: potential for antibody directed enzyme prodrug therapy (ADEPT). Springer CJ, et al. **Anticancer Drug Des** 1996 Dec; 11(8):625–36

Folate-based thymidylate synthase inhibitors in cancer chemotherapy. Takemura Y, et al. **Anticancer Drugs** 1997 Jan;8(1):3–16 (115 ref.)

Cofactor role for 10-formyldihydrofolic acid. Baggott JE, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):1031–6

Biological properties of fluoroglutamate-containing analogs of folates and methotrexate with altered capacities to form poly (gamma-glutamate) metabolites. McGuire JJ, et al. **Biochem Pharmacol** 1996 Oct 25;52(8):1295–303

Liquid chromatographic determination of folate monoglutamates in fish, meat, egg, and dairy products consumed in Finland. Vahteristo LT, et al. **J AOAC Int** 1997 Mar–Apr;80(2):373–8

Amplification of the thymidylate synthase gene in an N10-propargyl-5,8-dideazafolic-acid-resistant human leukemia, MOLT-3 cell line developed in pteroylglutamic acid, but not in leucovorin. Miyachi H, et al. **J Cancer Res Clin Oncol** 1996;122(11):659–64

Folate-based inhibitors of thymidylate synthase: synthesis and antitumor activity of gamma-linked sterically hindered dipeptide analogues of 2-desamino-2-methyl-N10-propargyl-5,8-dideazafolic acid (ICI 198583). Bavetsias V, et al. **J Med Chem** 1997 May 9;40(10):1495–510

Design and synthesis of histidine analogues of folic acid and methotrexate as potential folylpolyglutamate synthetase inhibitors. Mao Z, et al. **J Med Chem** 1996 Oct 11; 39(21):4340–4

Use of 10-formyl-5,8-dideazafolate as substrate for rat 10-formyltetrahydrofolate dehydrogenase. Cook RJ. **Methods Enzymol** 1997;281:129–34

Biotin derivatives of folate compounds: synthesis and utilization for visualization and affinity purification of folate transport proteins. Fan J, et al. **Methods Enzymol** 1997; 281:97–105

Preparation of stable isotopically labeled folates for in vivo investigation of folate absorption and metabolism. Pfeiffer CM, et al. **Methods Enzymol** 1997;281:106–16

Structural characterization of modified folates in Archaea. White RH. **Methods Enzymol** 1997;281:391–401

Novel substrate analogs delineate an endocytotic mechanism for uptake of folate via the high-affinity, glycosylphosphatidylinositol-linked transport protein in L1210 mouse leukemia cells. Fan J, et al. **Oncol Res** 1995; 7(10–11):511–6

ANALYSIS

Development and validation of high-performance liquid chromatographic method for the determination of folic

acid. Nagy E, et al. **Acta Pharm Hung** 1996 Jul;66(4):181–4
Effect of milk processing on the concentration of folate–binding protein (FBP), folate–binding capacity and retention of 5–methyltetrahydrofolate. Wigertz K, et al. **Int J Food Sci Nutr** 1996 Jul;47(4):315–22
Serum and milk folates during the first two gestations and lactations in Romanov, Finnsheep, and Suffolk ewes. Girard CL, et al. **J Anim Sci** 1996 Jul;74(7):1711–5
Effect of folic acid supplementation on folate status and formate oxidation rate in mink (Mustela vision). Pölönen IJ, et al. **J Anim Sci** 1997 Jun;75(6):1569–74
Folate and folate–binding protein content in dairy products. Wigertz K, et al. **J Dairy Res** 1997 May;64(2):239–52
Folate depletion induced by methotrexate affects methionine synthase activity and its susceptibility to inactivation by nitrous oxide. Fiskerstrand T, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1305–11
Prospectively measured red cell folate levels in methotrexate treated patients with rheumatoid arthritis: relation to withdrawal and side effects. Andersen LS, et al. **J Rheumatol** 1997 May;24(5):830–7
Analysis of folates using combined affinity and ion–pair chromatography. Bagley PJ, et al. **Methods Enzymol** 1997; 281:16–25
Microbiological assay of folates in 96–well microtiter plates. Horne DW. **Methods Enzymol** 1997;281:38–43
Molar quantitation of folates by gas chromatography–mass spectrometry. Santhosh–Kumar CR, et al. **Methods Enzymol** 1997;281:26–38
Red cell folate: an appropriate index of folate body stores [letter; comment] Portolés J, et al. **Nephron** 1997;76(1):119 . Comment on: Nephron 1995;71(4):395–400.
Folate and 10–formyltetrahydrofolate dehydrogenase in human and rat retina: relation to methanol toxicity. Martinasevic MK, et al. **Toxicol Appl Pharmacol** 1996 Dec; 141(2):373–81

ANTAGONISTS & INHIBITORS see FOLIC ACID ANTAGONISTS

BIOSYNTHESIS

Defective transport is a common mechanism of acquired methotrexate resistance in acute lymphocytic leukemia and is associated with decreased reduced folate carrier expression. Gorlick R, et al. **Blood** 1997 Feb 1;89(3):1013–8

BLOOD

Serum concentrations of zinc, folate, vitamins A and E, and proteins, and their relationships to pregnancy outcome. Tamura T, et al. **Acta Obstet Gynecol Scand Suppl** 1997; 165:63–70
Unmetabolized folic acid in serum: acute studies in subjects consuming fortified food and supplements [see comments] Kelly P, et al. **Am J Clin Nutr** 1997 Jun;65(6):1790–5. Comment in: Am J Clin Nutr 1997 Jun;65(6):1889–90.
Genetic effects on variation in red–blood–cell folate in adults: implications for the familial aggregation of neural tube defects. Mitchell LE, et al. **Am J Hum Genet** 1997 Feb; 60(2):433–8
Homocysteine in sickle cell disease: relationship to stroke. Houston PE, et al. **Am J Med** 1997 Sep;103(3):192–6
Folate, vitamin B12, and homocysteine in major depressive disorder. Fava M, et al. **Am J Psychiatry** 1997 Mar; 154(3):426–8
Effect of storage on serum vitamin B12 and folate stability. Komaromy–Hiller G, et al. **Ann Clin Lab Sci** 1997 Jul–Aug; 27(4):249–53
Folate status is the major determinant of fasting total plasma homocysteine levels in maintenance dialysis patients. Bostom AG, et al. **Atherosclerosis** 1996 Jun; 123(1–2):193–202
Analysis and biochemistry of blood folate. Lucock MD, et al. **Biochem Mol Med** 1996 Jun;58(1):93–112
Levels of folic acid in plasma and in red blood cells of colorectal cancer patients. Porcelli B, et al. **Biomed Pharmacother** 1996;50(6–7):303–5
Interference by antifolate drugs in a folate competitive protein–binding assay. Hardcastle A, et al. **Cancer Chemother Pharmacol** 1997;39(6):552–3
Colorectal cancer and folate status: a nested case–control study among male smokers. Glynn SA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):487–94
Folate, vitamin B12, homocysteine status and chromosome damage rate in lymphocytes of older men. Fenech MF, et al. **Carcinogenesis** 1997 Jul;18(7):1329–36
Methylenetetrahydrofolate reductase polymorphism, plasma folate, homocysteine, and risk of myocardial infarction in US physicians. Ma J, et al. **Circulation** 1996 Nov 15; 94(10):2410–6
Hyperhomocysteinemia confers an independent increased risk of atherosclerosis in end–stage renal disease and is closely linked to plasma folate and pyridoxine concentrations. Robinson K, et al. **Circulation** 1996 Dec 1;94(11):2743–8
Myocardial infarction in young women in relation to plasma total homocysteine, folate, and a common variant in the methylenetetrahydrofolate reductase gene. Schwartz SM, et al. **Circulation** 1997 Jul 15;96(2):412–7
Results of an international round robin for serum and whole–blood folate [see comments] Gunter EW, et al. **Clin Chem** 1996 Oct;42(10):1689–94. Comment in: Clin Chem 1996 Oct;42(10):1579–81.
Serum and erythrocyte folates: a matter of life and premature death [editorial; comment] Jacobsen DW. **Clin Chem** 1996 Oct;42(10):1579–81 (38 ref.). Comment on: Clin Chem 1996 Oct;42(10):1579–81.
Measurement of maternal folate status and risk of neural tube defects. Makowski GS, et al. **Clin Chem** 1997 Jan; 43(1):185–6
Enzymatic deconjugation of erythrocyte polyglutamyl folates during preparation for folate assay: investigation with reversed–phase liquid chromatography. Pfeiffer CM, et al. **Clin Chem** 1996 Nov;42(11):1847–54
Evaluation of nonisotopic binding assays for measuring vitamin B12 and folate in serum. Steijns LS, et al. **Clin Chim Acta** 1996 Apr 30;248(2):135–41
Folate and vitamin B12 status of the elderly. Quinn K, et al. **Eur J Clin Nutr** 1996 Jun;50(6):340–2
Factors related to plasma folate and vitamin B12. The SENECA study. Weggemans RM, et al. **Int J Food Sci Nutr** 1997 Mar;48(2):141–50
Folate and vitamin B12 status in a group of preschool children. Requejo AM, et al. **Int J Vitam Nutr Res** 1997; 67(3):171–5
Atherogenesis and the homocysteine–folate–cobalamin triad: do we need standardized analyses? Flynn MA, et al. **J Am Coll Nutr** 1997 Jun;16(3):258–67
Serum and milk folates during the first two gestations and lactations in Romanov, Finnsheep, and Suffolk ewes. Girard CL, et al. **J Anim Sci** 1996 Jul;74(7):1711–5
Tumoral–reduced folates and clinical resistance to fluorouracil–based treatment in head and neck cancer patients. Chéradame S, et al. **J Clin Oncol** 1997 Jul; 15(7):2604–10
Cigarette smoking, serum lipids, folate, and vitamin B12 in lung cancer. Gürdal–Yüksel E, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):161–7
Relationship of plasma folic acid and status of DNA methylation in human gastric cancer. Fang JY, et al. **J Gastroenterol** 1997 Apr;32(2):171–5
Mechanism for reduction of serum folate by antiepileptic drugs during prolonged therapy. Kishi T, et al. **J Neurol Sci** 1997 Jan;145(1):109–12
Some vitamin sources relating to plasma homocysteine provide not only folate but also vitamins B–12 and B–6 [letter] Koehler KM, et al. **J Nutr** 1997 Aug;127(8):1534–6
Dietary intake pattern relates to plasma folate and homocysteine concentrations in the Framingham Heart Study. Tucker KL, et al. **J Nutr** 1996 Dec;126(12):3025–31
Folate assays: serum or red cell? Phekoo K, et al. **J R Coll Physicians Lond** 1997 May–Jun;31(3):291–5
Serum folate and risk of fatal coronary heart disease [letter; comment] Braun RD. **JAMA** 1996 Oct 16;276(15):1222. Comment on: JAMA 1996 Jun 26;275(24):1893–6.
Thermolabile variant of 5,10–methylenetetrahydrofolate reductase associated with low red–cell folates: implications for folate intake recommendations. Molloy AM, et al. **Lancet** 1997 May 31;349(9065):1591–3
Accurate red–cell folate analysis [letter] Wright AJ. **Lancet** 1997 Aug 9;350(9075):445–6
Plasma total homocysteine concentrations in epileptic patients taking anticonvulsants. Ono H, et al. **Metabolism** 1997 Aug;46(8):959–62
Microbiological assay for serum, plasma, and red cell folate using cryopreserved, microtiter plate method. Molloy AM, et al. **Methods Enzymol** 1997;281:43–53
Effects of serum vitamin B12 and folate status on episodic memory performance in very old age: a population–based study. Wahlin A, et al. **Psychol Aging** 1996 Sep;11(3):487–96
Folate and homocysteine status and haemolysis in patients treated with sulphasalazine for arthritis. Krogh Jensen M, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):421–9
Basic haematological parameters, serum gamma–glutamyl–transferase activity, and erythrocyte folate and serum vitamin B12 levels during carbamazepine and oxcarbazepine therapy. Isojärvi JI, et al. **Seizure** 1997 Jun;6(3):207–11
Maternal and fetal serum and red blood cell folate and vitamin B12 concentrations in pregnancies affected by neural tube defects. Thorand B, et al. **Z Geburtshilfe Neonatol** 1996 Sep–Oct;200(5):176–80
[Measurement of folic acid and vitamin B12 in the elderly. Low serum levels result in worse memory] Wahlin A, et al. **Lakartidningen** 1997 Jun 4;94(23):2177–82 **(Swe)**

CHEMISTRY

Patterned staining by fluorescein–labeled oligonucleotides obtained by in vitro selection. Kawazoe N, et al. **Anal Chem** 1996 Dec 15;68(24):4309–11
Structural characterization of modified folates in Archaea. White RH. **Methods Enzymol** 1997;281:391–401
Site–specific introduction of functional groups into phosphodiester oligodeoxynucleotides and their thermal stability and nuclease–resistance properties. Nomura Y, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2784–91

CLASSIFICATION

Classification of folic acid [letter; comment] van Dusseldorp M. **Lancet** 1997 Jan 25;349(9047):289. Comment on: Lancet 1996 Nov 23;348(9039):1460.

DEFICIENCY see FOLIC ACID DEFICIENCY

HISTORY

E. L. Robert Stokstad (1913–1995). Shane B, et al. **J Nutr** 1997 Feb;127(2):199–201

METABOLISM

Modeling of folate metabolism. Gregory JF 3rd, et al. **Adv Food Nutr Res** 1996;40:81–93 (32 ref.)
Molecular biology in nutrition research: modeling of folate metabolism. Lin BF, et al. **Adv Food Nutr Res** 1996; 40:95–106 (9 ref.)
Effect of ethanol on folate binding by isolated rat renal brush border membranes. Ross DM, et al. **Alcohol** 1996 Sep–Oct; 13(5):449–54
Kinetic modeling of folate metabolism through use of chronic administration of deuterium–labeled folic acid in men [see comments] Stites TE, et al. **Am J Clin Nutr** 1997 Jan; 65(1):53–60. Comment in: Am J Clin Nutr 1997 Jan;65(1):162–3.
Internalization and apical–to–basolateral transport of folate in rat kidney proximal tubule. Birn H, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):F70–8
Evidence for the existence of a carrier–mediated folate uptake mechanism in human colonic luminal membranes. Dudeja PK, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1408–15
A common genetic variant affecting folate metabolism is not over–represented in chronic fatigue syndrome. Harmon DL, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):427–9
Folate absorption in the jejunum of chronic ethanol–fed rats: in vivo studies. Fernandez–Borrachero O, et al. **Ann Nutr Metab** 1996;40(5):277–82
Folate absorption in the caecum of chronic ethanol–fed rats: in vivo studies. Fernandez–Borrachero O, et al. **Ann Nutr Metab** 1996;40(5):283–6
Folate utilization by monomeric versus heterotetrameric sarcosine oxidases. Wagner MA, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):176–81
Pterin and folate reduction by the Leishmania tarentolae H locus short–chain dehydrogenase/reductase PTR1. Wang J, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):197–202
Tissue–specific promoters of the alpha human folate receptor gene yield transcripts with divergent 5' leader sequences and different translational efficiencies. Roberts SJ, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):439–47
Kinetic scheme for thymidylate synthase from Escherichia coli: determination from measurements of ligand binding, primary and secondary isotope effects, and pre–steady–state catalysis. Spencer HT, et al. **Biochemistry** 1997 Apr 8; 36(14):4212–22
Relevance of tumoral folylpolyglutamate synthetase and reduced folates for optimal 5–fluorouracil efficacy: experimental data. Chéradame S, et al. **Eur J Cancer** 1997 May;33(6):950–9
The influence of aspartate 26 on the tautomeric forms of folate bound to Lactobacillus casei dihydrofolate reductase. Birdsall B, et al. **FEBS Lett** 1997 Feb 3;402(2–3):157–61
Organization, structure and alternate splicing of the murine RFC–1 gene encoding a folate transporter. Tolner B, et al. **Gene** 1997 Apr 11;189(1):1–7
Altered metabolism of folates and lipids in hyperthyroid and hypothyroid rats. Viswanathan G, et al. **Indian J Biochem Biophys** 1996 Aug;33(4):311–4
Brain folates and DNA methylation in rats fed a choline deficient diet or treated with low doses of methotrexate. Alonso–Aperte E, et al. **Int J Vitam Nutr Res** 1996; 66(3):232–6
Folate, antifolates, and folate analogs in pediatric oncology. Hum MC, et al. **Invest New Drugs** 1996;14(1):101–11 (59 ref.)
Purine biosynthesis in the domain Archaea without folates or modified folates. White RH. **J Bacteriol** 1997 May; 179(10):3374–7
A protein–tyrosine kinase–regulated, pH–dependent, carrier–mediated uptake system for folate in human normal colonic epithelial cell line NCM460. Kumar CK, et al. **J Biol Chem** 1997 Mar 7;272(10):6226–31
Activation of the mitogen–activated protein kinase ERK2 by the chemoattractant folic acid in Dictyostelium. Maeda M, et al. **J Biol Chem** 1997 Sep 19;272(38):23690–5
Fumonisin B1–induced sphingolipid depletion inhibits vitamin uptake via the glycosylphosphatidylinositol–anchored folate receptor. Stevens VL, et al. **J Biol Chem** 1997 Jul 18;272(29):18020–5
Simultaneous activity of two different mechanisms of folate transport in ovarian carcinoma cell lines. Miotti S, et al. **J Cell Biochem** 1997 Jun 15;65(4):479–91
Clustering of GPI–anchored folate receptor independent of both cross–linking and association with caveolin. Wu M, et al. **J Membr Biol** 1997 Sep 15;159(2):137–47
Compartmentation of folate metabolism in rat pancreas: nitrous oxide inactivation of methionine synthase leads to accumulation of 5–methyltetrahydrofolate in cytosol. Horne DW, et al. **J Nutr** 1997 Sep;127(9):1772–5
Folate transport proteins mediate the bidirectional transport of 5–methyltetrahydrofolate in cultured human proximal tubule cells. Morshed KM, et al. **J Nutr** 1997 Jun; 127(6):1137–47
Use of 13C nuclear magnetic resonance to evaluate metabolic flux through folate one–carbon pools in Saccharomyces cerevisiae. Appling DR, et al. **Methods Enzymol** 1997; 281:218–31
Biotin derivatives of folate compounds: synthesis and

utilization for visualization and affinity purification of folate transport proteins. Fan J, et al. **Methods Enzymol** 1997; 281:97–105

Identification and assay of folate catabolites in human urine. McPartlin J, et al. **Methods Enzymol** 1997;281:70–7

Preparation of stable isotopically labeled folates for in vivo investigation of folate absorption and metabolism. Pfeiffer CM, et al. **Methods Enzymol** 1997;281:106–16

Red cell folate: an appropriate index of folate body stores [letter; comment] Portolés J, et al. **Nephron** 1997;76(1):119 . Comment on: Nephron 1995;71(4):395–400.

Accumulation and distribution of free folic acid content in red beet (Beta vulgaris L.). Wang M, et al. **Plant Foods Hum Nutr** 1997;50(1):1–8

Altered folate and vitamin B12 metabolism in families with spina bifida offspring. van der Put NM, et al. **QJM** 1997 Aug;90(8):505–10

Characterization and glutamyl preferring carboxypeptidase function of prostate specific membrane antigen: a novel folate hydrolase. Heston WD. **Urology** 1997 Mar;49(3A Suppl):104–12

[Regulation of folate metabolism in fungi: Aspergillus nidulans as an experimental model] Paszewski A, et al. **Postepy Biochem** 1996;42(2):129–32 (21 ref.) **(Pol)**

PHARMACOKINETICS

Intracellular regulation of intestinal folate uptake: studies with cultured IEC–6 epithelial cells. Said HM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C729–36

Partial characterization of folate uptake in microvillous membrane vesicles isolated from human placenta. Henriques C, et al. **Braz J Med Biol Res** 1996 Dec; 29(12):1583–91

Bioavailability of folate. Gregory JF 3rd. **Eur J Clin Nutr** 1997 Jan;51 Suppl 1:S54–9 (56 ref.)

Bioavailability for humans of deuterium–labeled monoglutamyl and polyglutamyl folates is affected by selected foods. Wei MM, et al. **J Nutr** 1996 Dec; 126(12):3100–8

Novel substrate analogs delineate an endocytotic mechanism for uptake of folate via the high–affinity, glycosylphosphatidylinositol–linked transport protein in L1210 mouse leukemia cells. Fan J, et al. **Oncol Res** 1995; 7(10–11):511–6

PHARMACOLOGY

Unmetabolized folic acid in serum: acute studies in subjects consuming fortified food and supplements [see comments] Kelly P, et al. **Am J Clin Nutr** 1997 Jun;65(6):1790–5. Comment in: Am J Clin Nutr 1997 Jun;65(6):1889–90.

Let's increase folic acid fortification and include vitamin B–12 [editorial; comment] Oakley GP Jr. **Am J Clin Nutr** 1997 Jun;65(6):1889–90. Comment on: Am J Clin Nutr 1997 Jun;65(6):1790–5.

Does periconceptional multivitamin use reduce the risk of neural tube defects associated with other birth defects? [letter; comment] Bower C, et al. **Am J Med Genet** 1997 May 16;70(2):206. Comment on: Am J Med Genet 1996 Jan 2;61(1):30–6.

Exon–specific DNA hypomethylation of the p53 gene of rat colon induced by dimethylhydrazine. Modulation by dietary folate. Kim YI, et al. **Am J Pathol** 1996 Oct; 149(4):1129–37

Autosomal folate sensitive fragile sites in an autistic Basque sample. Arrieta I, et al. **Ann Genet** 1996;39(2):69–74

Effects of folic and folinic acids in the activities of cycloguanil and WR99210 against Plasmodium falciparum in erythrocytic culture. Yeo AE, et al. **Ann Trop Med Parasitol** 1997 Jan;91(1):17–23

Effect of various amounts of folic acid added to rat food on food intake and some parameters of carbohydrate metabolism. Prusiewicz–Witaszek U, et al. **Arch Vet Pol** 1994;34(3–4):261–6

The influence of dietary folate and methionine on the metabolic disposition of endotoxic homocysteine. Lucock MD, et al. **Biochem Mol Med** 1996 Dec;59(2):104–11

Single–chain Fv/folate conjugates mediate efficient lysis of folate–receptor–positive tumor cells. Cho BK, et al. **Bioconjug Chem** 1997 May–Jun;8(3):338–46

Dietary folate affects the response of rats to nickel deprivation. Uthus EO, et al. **Biol Trace Elem Res** 1996 Apr;52(1):23–35

Markedly induced asialoGM1+CD8+ T cell production and enhancement of antimetastatic activity by interferon beta with folic or folinic acid. Iigo M, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):65–9

Effect of folic acid supplementation on folate status and formate oxidation rate in mink (Mustela vision). Pölönen IJ, et al. **J Anim Sci** 1997 Jun;75(6):1569–74

Intracellular free calcium responses during chemotaxis of Dictyostelium cells. Yumura S, et al. **J Cell Sci** 1996 Nov; 109 (Pt 11):2673–8

The form of folate affects the mechanisms of methotrexate resistance in Enterococcus faecium. Tamura T, et al. **Microbiology** 1997 Aug;143 (Pt 8):2639–46

Inositol prevents folate–resistant neural tube defects in the mouse [see comments] Greene ND, et al. **Nat Med** 1997 Jan;3(1):60–6. Comment in: Nat Med 1997 Jan;3(1):24–5.

Will an increased dietary folate intake reduce the incidence of cardiovascular disease? Ubbink JB, et al. **Nutr Rev** 1996 Jul;54(7):213–6 (20 ref.)

Homocysteine induces congenital defects of the heart and neural tube: effect of folic acid. Rosenquist TH, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15227–32

Comparison of national policies on periconceptional use of folic acid to prevent spina bifida and anencephaly (SBA). Cornel MC, et al. **Teratology** 1997 Feb;55(2):134–7

Effect of supplemental folic acid on valproic acid–induced embryotoxicity and tissue zinc levels in vivo. Hansen DK, et al. **Teratology** 1995 Nov;52(5):277–85

PHYSIOLOGY

Disturbances of one–carbon metabolism in neuropsychiatric disorders: a review. Smythies JR, et al. **Biol Psychiatry** 1997 Jan 15;41(2):230–3 (35 ref.)

Lipotrope–mediated c–jun and ornithine decarboxylase mRNA expression in mammary acinar cells [letter] Moon YS, et al. **In Vitro Cell Dev Biol Anim** 1996 Jun;32(6):313–4

Protein expression in response to folate stress in Escherichia coli. Huang EY, et al. **J Bacteriol** 1997 Sep;179(17):5648–53

Statistical interaction model for exchangeability of food folates in rat growth bioassay. Müller HG, et al. **J Nutr** 1996 Oct;126(10):2585–92

Influence of maternal folate status on the developmental toxicity of methanol in the CD–1 mouse. Sakanashi TM, et al. **Teratology** 1996 Oct;54(4):198–206

STANDARDS

Better understanding of folate nutrition through chemistry [editorial; comment] Rosenberg IH. **Am J Clin Nutr** 1997 Jan;65(1):162–3. Comment on: Am J Clin Nutr 1997 Jan;65(1):53–60.

Folic acid fortification. **Nutr Rev** 1996 Mar;54(3):94–5 (4 ref.)

THERAPEUTIC USE

Folic acid: new dimensions of an old friendship. Johnston RB Jr. **Adv Pediatr** 1997;44:231–61 (134 ref.)

Micronutrients and the risk of colorectal adenomas [see comments] Tseng M, et al. **Am J Epidemiol** 1996 Dec 1; 144(11):1005–14. Comment in: Am J Epidemiol 1996 Dec 1;144(11):1026–7.

Folate–based thymidylate synthase inhibitors in cancer chemotherapy. Takemura Y, et al. **Anticancer Drugs** 1997 Jan;8(1):3–16 (115 ref.)

The effects of folic acid supplementation on plasma total homocysteine are modulated by multivitamin use and methylenetetrahydrofolate reductase genotypes. Malinow MR, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun; 17(6):1157–62

Thrombosis, megaloblastic anaemia, and sickle cell disease: a unified hypothesis [letter] Ballas SK, et al. **Br J Haematol** 1997 Mar;96(4):879–80

Folate supplementation and methotrexate [letter; comment] Houtman PM. **Br J Rheumatol** 1996 Oct;35(10):1031–2. Comment on: Br J Rheumatol 1995 Dec;34(12):1172–4.

Folic acid and neural tube defects. Those who should haven't heard yet. **Can Fam Physician** 1996 Oct;42:1911–2

Periconception folic acid supplementation. Knowledge and practice of Canadian family physicians. Koren G. **Can Fam Physician** 1997 May;43:851–2

Folic acid to prevent neural tube defects: scientific advances and public health issues. Mills JL, et al. **Curr Opin Obstet Gynecol** 1996 Dec;8(6):394–7 (18 ref.)

Folic acid in the prevention of birth defects. Allen WP. **Curr Opin Pediatr** 1996 Dec;8(6):630–4 (40 ref.)

Folates and the fetus. Eskes TK. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):105–11 (44 ref.)

Folate prophylaxis for neural tube defects in infertility units in the UK. Luckas M, et al. **Int J Gynaecol Obstet** 1997 Feb;56(2):187–8

The way to prevent spina bifida [news] **Ir Med J** 1996 Jul–Aug;89(4):136

Suboptimal compliance with periconceptual folic acid in an Irish hospital population. Milner M, et al. **Ir Med J** 1996 Jan–Feb;89(1):28–30

Clinical development plan: folic acid. **J Cell Biochem Suppl** 1996;26:100–13

The role of folic acid in deficiency states and prevention of disease. Swain RA, et al. **J Fam Pract** 1997 Feb; 44(2):138–44 (53 ref.)

Failure of pretreatment with intravenous folic acid to alter the cumulative hematologic toxicity of lometrexol [letter] Muggia FM, et al. **J Natl Cancer Inst** 1996 Oct 16; 88(20):1495–6

Child bearing age women and folic acid—what's the connection? **J Okla State Med Assoc** 1996 Mar;89(3):110–1

Can women live on bread alone? Folic acid supplementation revisited. Page RL 2nd, et al. **J S C Med Assoc** 1997 Feb; 93(2):57–62 (27 ref.)

Can terathanasia explain the protective effect of folic–acid supplementation on birth defects? Hook EB, et al. **Lancet** 1997 Aug 16;350(9076):513–5 (20 ref.)

Folic acid and prevention of neural–tube defects [letter] Howell F, et al. **Lancet** 1997 Aug 30;350(9078):664–5

Folic acid and prevention of neural–tube defects [letter] Hurren C, et al. **Lancet** 1997 Aug 30;350(9078):664

Folic acid and prevention of neural–tube defects [letter] Wald N, et al. **Lancet** 1997 Aug 30;350(9078):665

Prevention of neural–tube defects [letter] Wild J, et al. **Lancet** 1997 Jul 5;350(9070):30–1

Give the embryo a chance [news; comment] Hall JG. **Nat Med** 1997 Jan;3(1):24–5. Comment on: Nat Med 1997 Jan;3(1):60–6.

Acute folate deficiency in a critically ill patient. Geerlings SE, et al. **Neth J Med** 1997 Jul;51(1):36–8

Definition and prevalence of anemia in Bolivian women of childbearing age living at high altitudes: the effect of iron–folate supplementation. Berger J, et al. **Nutr Rev** 1997 Jun;55(6):247–56

Folic acid supplementation—when and how. Schwarz RH, et al. **Obstet Gynecol** 1996 Nov;88(5):886–7

Folate: effects on carcinogenesis and the potential for cancer chemoprevention. Mason JB, et al. **Oncology (Huntingt)** 1996 Nov;10(11):1727–36, 1742–3; discussion 1743–4 (109 ref.)

Teratology Society Consensus Statement on use of folic acid to reduce the risk of birth defects. Holmes L, et al. **Teratology** 1997 Jun;55(6):381 (3 ref.)

Atherosclerotic vascular disease: will folate or gene therapy be useful? Heistad DD, et al. **Trans Am Clin Climatol Assoc** 1996;108:69–76; discussion 76–7 (21 ref.)

Translation of the advice of the special mixed advisory commission concerning folic acid supplementation for the prevention of neural tube defects. **Verh K Acad Geneeskd Belg** 1996;58(6):635–79; discussion 679–81 (135 ref.) **(Eng, Dut, Fre)**

[Folic acid and cervix dysplasia] Zarcone R, et al. **Minerva Ginecol** 1996 Oct;48(10):397–400 (Eng. Abstr.) **(Ita)**

TOXICITY

Effect of folate deficiency and folate and B12 excess on memory functioning in young chicks. Crowe SF, et al. **Pharmacol Biochem Behav** 1997 Feb;56(2):189–97

FOLIC ACID ANTAGONISTS

see related
ANTIMETABOLITES
ANTIMETABOLITES, ANTINEOPLASTIC

New antifolates in clinical development. Takimoto CH, et al. **Oncology (Huntingt)** 1995 Jul;9(7):649–56, 659 DISC 660, 662, 665 (87 ref.)

ADMINISTRATION & DOSAGE

Systemic treatment of ectopic pregnancies with single–dose methotrexate. Schäfer D, et al. **J Am Assoc Gynecol Laparosc** 1994 May;1(3):213–8

Posttranscriptionally mediated decreases in folylpolyglutamate synthetase gene expression in some folate analogue–resistant variants of the L1210 cell. Evidence for an altered cognate mRNA in the variants affecting the rate of de novo synthesis of the enzyme. Roy K, et al. **J Biol Chem** 1997 Mar 14;272(11):6903–8

Methotrexate dose–escalation studies in transgenic mice and marrow transplant recipients expressing drug–resistant dihydrofolate reductase activity. May C, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1444–51

ADVERSE EFFECTS

Hyperpigmentation of the flexures and pancytopenia during treatment with folate antagonists [letter] Jucgla A, et al. **Acta Derm Venereol** 1997 Mar;77(2):165–6

Methotrexate and triamterene—a potentially fatal combination? [letter] Richmond R, et al. **Ann Rheum Dis** 1997 Mar;56(3):209–10

A biochemical perspective of methotrexate neurotoxicity with insight on nonfolate rescue modalities. Quinn CT, et al. **J Investig Med** 1996 Dec;44(9):522–30 (106 ref.)

Failure of pretreatment with intravenous folic acid to alter the cumulative hematologic toxicity of lometrexol [letter] Muggia FM, et al. **J Natl Cancer Inst** 1996 Oct 16; 88(20):1495–6

Life–threatening neutropenia following methotrexate treatment of ectopic pregnancy: a report of two cases. Isaacs JD Jr, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):694–6

[Pancytopenia in rheumatoid arthritis treated with methotrexate] Laroche F, et al. **Presse Med** 1996 Sep 7; 25(25):1144–6 (Eng. Abstr.) **(Fre)**

ANALYSIS

Simple HPLC determination of the concentrations of epiroprim in the serum and brains of mice. Lee HS, et al. **J Pharm Pharmacol** 1996 Oct;48(10):1090–2

High–performance liquid chromatography determination of pyrimethamine, dapsone, monoacetyldapsone, sulfadoxine, and N–acetyl–sulfadoxine after rapid solid–phase extraction. Eljaschewitsch J, et al. **Ther Drug Monit** 1996 Oct;18(5):592–7

BLOOD

Simple and sensitive method for the quantitative analysis of lometrexol in plasma using high–performance liquid chromatography with electrochemical detection. Synold TW, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30; 683(2):245–9

CHEMICAL SYNTHESIS

Non-glutamate type pyrrolo[2,3-d]pyrimidine antifolates. II. Synthesis and antitumor activity of N5-substituted glutamine analogs. Itoh F, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1498-509

Quinoxaline chemistry. Part 5. 2-(R)-benzylaminoquinoxalines as nonclassical antifolate agents. Synthesis and evaluation of in vitro anticancer activity. Loriga M, et al. **Farmaco** 1996 Aug-Sep; 51(8-9):559-68

A simplified and efficient synthesis of 5,10-dideaza-5,6,7,8-tetrahydrofolic acid (DDATHF). Taylor EC, et al. **Invest New Drugs** 1996;14(3):281-5

Synthesis and dihydrofolate reductase inhibitory activities of 2,4-diamino-5-deaza and 2,4-diamino-5,10-dideaza lipophilic antifolates. Gangjee A, et al. **J Med Chem** 1997 Feb 14;40(4):470-8

Synthesis and biological evaluation of nonclassical 2,4-diamino-5-methylpyrido[2,3-d]pyrimidines with novel side chain substituents as potential inhibitors of dihydrofolate reductases. Gangjee A, et al. **J Med Chem** 1997 Feb 14;40(4):479-85

Synthesis and biological activities of conformationally restricted, tricyclic nonclassical antifolates as inhibitors of dihydrofolate reductases. Gangjee A, et al. **J Med Chem** 1997 Jun 6;40(12):1930-6

Nonclassical 2,4-diamino-5-aryl-6-ethylpyrimidine antifolates: activity as inhibitors of dihydrofolate reductase from Pneumocystis carinii and Toxoplasma gondii and as antitumor agents. Robson C, et al. **J Med Chem** 1997 Sep 12;40(19):3040-8

CHEMISTRY

Lead discovery of inhibitors of the dihydrofolate reductase domain of Plasmodium falciparum dihydrofolate reductase-thymidylate synthase. Toyoda T, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):515-9

Sequence-specific 1H, 13C and 15N assignment of the TMP-resistant dihydrofolate reductase mutant DHFR(F98Y) in the ternary complex with TMP and NADPH. Altmann S, et al. **J Biomol NMR** 1997 Jun; 9(4):445-6

Conformationally restricted analogues of trimethoprim: 2,6-diamino-8-substituted purines as potential dihydrofolate reductase inhibitors from Pneumocystis carinii and Toxoplasma gondii. Gangjee A, et al. **J Med Chem** 1997 Sep 12;40(19):3032-9

Structural studies on bioactive compounds. 28. Selective activity of triazenyl-substituted pyrimethamine derivatives against Pneumocystis carinii dihydrofolate reductase. Stevens MF, et al. **J Med Chem** 1997 Jun 6;40(12):1886-93

Consideration of the pH-dependent inhibition of dihydrofolate reductase by methotrexate. Cannon WR, et al. **J Mol Biol** 1997 Aug 29;271(4):656-68

Vitamins, metabolic antagonists, and molecular evolution. Jukes TH. **Protein Sci** 1997 Jan;6(1):254-6

Specificity in structure-based drug design: identification of a novel, selective inhibitor of Pneumocystis carinii dihydrofolate reductase. Gschwend DA, et al. **Proteins** 1997 Sep;29(1):59-67

Dynamics of trimethoprim bound to dihydrofolate reductase--a deuterium NMR study. Yang QX, et al. **Solid State Nucl Magn Reson** 1996 Dec;7(3):193-201

Binding of the anticancer drug ZD1694 to E. coli thymidylate synthase: assessing specificity and affinity. Rutenber EE, et al. **Structure** 1996 Nov 15;4(11):1317-24

METABOLISM

Penetration of brodimoprim into human neutrophils and intracellular activity. Braga PC, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2392-8

Dihydrofolate reductase protein inhibits its own translation by binding to dihydrofolate reductase mRNA sequences within the coding region. Ercikan-Abali EA, et al. **Biochemistry** 1997 Oct 7;36(40):12317-22

Tight binding of folate substrates and inhibitors to recombinant mouse glycinamide ribonucleotide formyltransferase. Sanghani SP, et al. **Biochemistry** 1997 Aug 26;36(34):10506-16

Disparate affinities of antifolates for folylpolyglutamate synthetase from human leukemia cells. Longo GS, et al. **Blood** 1997 Aug 1;90(3):1241-5

In vitro and in vivo biological activities of a novel nonpolyglutamable anti-folate, MX-68. Mihara M, et al. **Immunopharmacology** 1996 Oct;35(1):41-6

The biotransformation of sulfadimethoxine, sulfadimidine, sulfamethoxazole, trimethoprim and aditoprim by primary cultures of pig hepatocytes. Mengelers MJ, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):24-32

Specificity in structure-based drug design: identification of a novel, selective inhibitor of Pneumocystis carinii dihydrofolate reductase. Gschwend DA, et al. **Proteins** 1997 Sep;29(1):59-67

Dynamics of trimethoprim bound to dihydrofolate reductase--a deuterium NMR study. Yang QX, et al. **Solid State Nucl Magn Reson** 1996 Dec;7(3):193-201

PHARMACOKINETICS

The absorption of low-dose methotrexate in patients with inflammatory bowel disease. Moshkowitz M, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):569-73

pH dependence of methotrexate transport by the reduced folate carrier and the folate receptor in L1210 leukemia cells. Further evidence for a third route mediated at low pH. Sierra EE, et al. **Biochem Pharmacol** 1997 Jan 24; 53(2):223-31

The pharmacokinetics of 1954U89, 1,3-diamino-7-(1-ethylpropyl)-8-methyl-7H-pyrrolo-(3,2-f)quinazoline, in dogs and rats after intravenous and oral administration. Studenberg SD, et al. **Biopharm Drug Dispos** 1997 Jul;18(5):433-42

Metabolism and disposition of the antifolate LY231514 in mice and dogs. Woodland JM, et al. **Drug Metab Dispos** 1997 Jun;25(6):693-700

Cellular transport of CI-980. Hook KE, et al. **Invest New Drugs** 1996;14(4):341-7

Interspecies comparisons of plasma half-life of trimethoprim in relation to body mass. Pashov DA, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):48-53

Role of folylpolygutamate synthetase (FPGS) in antifolate chemotherapy; a biochemical and clinical update. Synold TW, et al. **Leuk Lymphoma** 1996 Mar;21(1-2):9-15 (56 ref.)

PHARMACOLOGY

Molecular mechanisms of resistance to antifolates, a review. Banerjee D, et al. **Acta Biochim Pol** 1995;42(4):457-64 (56 ref.)

Growth inhibitory effects of antifolates against an adriamycin-resistant human small cell lung cancer cell line. Matsuo K, et al. **Acta Med Okayama** 1997 Jun;51(3):121-7

Molecular approaches to the spreading problem of drug resistant malaria. Plowe CV, et al. **Adv Exp Med Biol** 1995; 390:197-209 (48 ref.)

Genetic characterization of trimethoprim resistance in Haemophilus influenzae. de Groot R, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2131-6

6,7-disubstituted 2,4-diaminopteridines: novel inhibitors of Pneumocystis carinii and Toxoplasma gondii dihydrofolate reductase. Jackson HC, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1371-5

Antibacterial activities of epiroprim, a new dihydrofolate reductase inhibitor, alone and in combination with dapsone. Locher HH, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1376-81

In vitro and in vivo immunomodulatory effects of anti-Pneumocystis carinii drugs. Viora M, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1294-7

Anticytomegaloviral activity of methotrexate associated with preferential accumulation of drug by cytomegalovirus-infected cells. Wachsman M, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):433-6

New antifolate 4,4'-diaminodiphenyl sulfone substituted 2,4-diamino-5-benzylpyrimidines. Proof of their dual mode of action and autosynergism. Wiese M, et al. **Arch Pharm (Weinheim)** 1996 Mar;329(3):161-8

Lead discovery of inhibitors of the dihydrofolate reductase domain of Plasmodium falciparum dihydrofolate reductase-thymidylate synthase. Toyoda T, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):515-9

Studies on the mechanism of antimalarial action of a novel arylene bis(methylketone). Berger BJ, et al. **Biochem Pharmacol** 1997 Sep 15;54(6):739-42

Cross-resistance to antifolates in multidrug resistant cell lines with P-glycoprotein or multidrug resistance protein expression. van Triest B, et al. **Biochem Pharmacol** 1997 Jun 15;53(12):1855-66

Effects of dual combinations of antifolates with atovaquone or dapsone on nucleotide levels in Plasmodium falciparum. Yeo AE, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):943-50

Dihydrofolate reductase protein inhibits its own translation by binding to dihydrofolate reductase mRNA sequences within the coding region. Ercikan-Abali EA, et al. **Biochemistry** 1997 Oct 7;36(40):12317-22

Drug-resistant dihydrofolate reductases: generation, expression and therapeutic application. McIvor RS. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S50-4 (19 ref.)

Confocal microscopy visualization of antifolate uptake by the reduced folate carrier in human leukaemic cells. Jolivet J, et al. **Br J Cancer** 1997;76(6):734-8

Interference by antifolate drugs in a folate competitive protein-binding assay. Hardcastle A, et al. **Cancer Chemother Pharmacol** 1997;39(6):552-3

Cell cycle effects of antifolate antimetabolites: implications for cytotoxicity and cytostasis. Tonkinson JL, et al. **Cancer Chemother Pharmacol** 1997;39(6):521-31

LY231514, a pyrrolo[2,3-d]pyrimidine-based antifolate that inhibits multiple folate-requiring enzymes. Shih C, et al. **Cancer Res** 1997 Mar 15;57(6):1116-23

Antifolates: current developments. Rayl EA, et al. **Cancer Treat Res** 1996;87:197-223 (220 ref.)

In vitro susceptibility studies of Plasmodium falciparum isolates and clones against type II antifolate drugs. Ang HH, et al. **Chemotherapy** 1996 Sep-Oct;42(5):318-23

A heritable folate-sensitive fragile site on chromosome 2p 11.2 (FRA2L). Schuffenhauer S, et al. **Chromosome Res** 1996 Apr;4(3):252-4

Quinoxaline chemistry. Part 7. 2-[aminobenzoates]- and 2-[aminobenzoylglutamate]-quinoxalines as classical antifolate agents. Synthesis and evaluation of in vitro anticancer, anti-HIV and antifungal activity. Loriga M, et al. **Farmaco** 1997 Mar;52(3):157-66

Isolation and characterization of a dihydrofolate reductase gene mutation in methotrexate-resistant Drosophila cells. Hao H, et al. **Gene Expr** 1996;6(4):231-9

Preventive effect of a novel antifolate, MX-68, in murine systemic lupus erythematosus (SLE). Mihara M, et al. **Int J Immunopharmacol** 1997 Feb;19(2):67-74

Biochemistry and pharmacology of glycinamide ribonucleotide formyltransferase inhibitors: LY309887 and lometrexol. Mendelsohn LG, et al. **Invest New Drugs** 1996; 14(3):287-94

In-vitro activity of atovaquone, sulphamethoxazole and dapsone alone and combined with inhibitors of dihydrofolate reductase and macrolides against Pneumocystis carinii. Cirioni O, et al. **J Antimicrob Chemother** 1997 Jan;39(1):45-51

Evolution of the bacterial dihydrofolate reductase inhibitors. Periti P. **J Antimicrob Chemother** 1995 Dec;36(6):887-90 (27 ref.)

Brodimoprim synergy against Enterococcus faecalis evaluated in vitro. Richards RM, et al. **J Antimicrob Chemother** 1996 Jul;38(1):27-37

Protein expression in response to folate stress in Escherichia coli. Huang EY, et al. **J Bacteriol** 1997 Sep;179(17):5648-53

Loss of folic acid exporter function with markedly augmented folate accumulation in lipophilic antifolate-resistant mammalian cells. Assaraf YG, et al. **J Biol Chem** 1997 Jul 11;272(28):17460-6

Dipyridamole mediated enhanced antiproliferative activity of 10-ethyl-10-deazaaminopterin (10-EDAM) against human lung cancer cell lines. Dearing MP, et al. **J Cell Biochem Suppl** 1996;24:165-72

Brodimoprim: effects of subminimal inhibitory concentrations on virulence traits of respiratory and urinary tract pathogens, and on plasmid transfer and stability. Marchese A, et al. **J Chemother** 1996 Jun;8(3):171-7

The effect of methotrexate on the expression of a cysteine protease inhibitor (type 2 cystatin) in rat sebaceous glands. Cohen RE, et al. **J Dermatol** 1996 Dec;23(12):863-70

Solution of the conformation and alignment tensors for the binding of trimethoprim and its analogs to dihydrofolate reductase: 3D-quantitative structure-activity relationship study using molecular shape analysis, 3-way partial least-squares regression, and 3-way factor analysis. Dunn WJ 3rd, et al. **J Med Chem** 1996 Nov 22;39(24):4825-32

2-amino-4-oxo-5-substituted-pyrrolo[2,3-d]pyrimidines as nonclassical antifolate inhibitors of thymidylate synthase. Gangjee A, et al. **J Med Chem** 1996 Nov 8;39(23):4563-8

Effect of N9-methylation and bridge atom variation on the activity of 5-substituted 2,4-diaminopyrrolo[2,3-d]pyrimidines against dihydrofolate reductases from Pneumocystis carinii and Toxoplasma gondii. Gangjee A, et al. **J Med Chem** 1997 Mar 28;40(7):1173-7

Synthesis and biological activities of conformationally restricted, tricyclic nonclassical antifolates as inhibitors of dihydrofolate reductases. Gangjee A, et al. **J Med Chem** 1997 Jun 6;40(12):1930-6

Analogues of N alpha-(4-amino-4-deoxypteroyl)-N delta-hemiphthaloyl-L-ornithine (PT523) modified in the side chain: synthesis and biological evaluation. Rosowsky A, et al. **J Med Chem** 1997 Jan 31;40(3):286-99

Susceptibility studies of Plasmodium falciparum isolates and clones against cycloguanil and pyrimethamine using the modified in vitro microtechnique. Ang HH, et al. **J Parasitol** 1996 Dec;82(6):1029-31

A dapsone-induced blood dyscrasia in the mouse: evidence for the role of an active metabolite. Ahmadi M, et al. **J Pharm Pharmacol** 1996 Feb;48(2):228-32

Folate depletion induced by methotrexate affects methionine synthase activity and its susceptibility to inactivation by nitrous oxide. Fiskerstrand T, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1305-11

In vitro selection of Plasmodium falciparum lines resistant to dihydrofolate-reductase inhibitors and cross resistance studies. Bhasin VK, et al. **Jpn J Med Sci Biol** 1996 Feb; 49(1):1-14

The form of folate affects the mechanisms of methotrexate resistance in Enterococcus faecium. Tamura T, et al. **Microbiology** 1997 Aug;143 (Pt 8):2639-46

Recombinant Plasmodium falciparum dihydrofolate reductase-based in vitro screen for antifolate antimalarials. Brobey RK, et al. **Mol Biochem Parasitol** 1996 Oct 30; 81(2):225-37

Potential antifolate resistance determinants and genotypic variation in the bifunctional dihydrofolate reductase-thymidylate synthase gene from human and bovine isolates of Cryptosporidium parvum. Vásquez JR, et al. **Mol Biochem Parasitol** 1996 Aug;79(2):153-65

Analysis in yeast of antimalaria drugs that target the dihydrofolate reductase of Plasmodium falciparum. Wooden JM, et al. **Mol Biochem Parasitol** 1997 Mar; 85(1):25-40

Effects of two histamine-N-methyltransferase inhibitors, SKF 91488 and BW 301 U, in rodent antinociception. Malmberg-Aiello P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):354-60

Correlation between reduction of surface hydrophobicity of S. aureus and the decrease in its adhesiveness induced by subinhibitory concentrations of brodimoprim. Braga PC, et al. **Pharmacol Res** 1995 Nov;32(5):315-9

Antifolate-resistant mutants of Plasmodium falciparum

dihydrofolate reductase. Sirawaraporn W, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1124–9

Regulation of male fertility by pyrimethamine in adult mice. Kalla NR, et al. **Res Exp Med (Berl)** 1997;197(1):45–52

New concepts for the development and use of antifolates. Chu E, et al. **Stem Cells** 1996 Jan;14(1):41–6 (20 ref.)

Activity of PS–15 and its metabolite, WR99210, against Plasmodium falciparum in an in vivo–in vitro model. Rieckmann KH, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):568–71

In vitro sensitivity of Plasmodium falciparum to anti–folinic agents (trimethoprim, pyrimethamine, cycloguanil): a study of 29 African strains] Basco LK, et al. **Bull Soc Pathol Exot** 1997;90(2):90–3 (Eng. Abstr.) **(Fre)**

POISONING

[A case of acute pyrimethamine poisoning] Aguemon AR, et al. **Bull Soc Pathol Exot** 1997;90(2):117–9 (7 ref.) (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

A phase II trial of edatrexate in previously treated squamous cell cervical cancer: a Gynecologic Oncology Group study. Broun ER, et al. **Am J Clin Oncol** 1997 Feb;20(1):78–80

A phase II study of raltitrexed ('Tomudex') in patients with hepatocellular carcinoma. Rougier P, et al. **Ann Oncol** 1997 May;8(5):500–2

Poor efficacy of antimalarial biguanide–dapsone combinations in the treatment of acute, uncomplicated, falciparum malaria in Thailand. Wilairatana P, et al. **Ann Trop Med Parasitol** 1997 Mar;91(2):125–32

Combination of PS–15, epiroprim, or pyrimethamine with dapsone in prophylaxis of Toxoplasma gondii and Pneumocystis carinii dual infection in a rat model. Brun–Pascaud M, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2067–70

Antifolate effect of methotrexate: comment on the article by Cronstein [letter; comment] Jaffe IA. **Arthritis Rheum** 1997 Aug;40(8):1545–6. Comment on: Arthritis Rheum 1996 Dec;39(12):1951–60.

A risk–benefit assessment of methotrexate in corticosteroid–dependent asthma. Shulimzon TR, et al. **Drug Saf** 1996 Oct;15(4):283–90 (51 ref.)

Controlled trial of methotrexate in patients with severe chronic asthma. Hedman J, et al. **Eur J Clin Pharmacol** 1996;49(5):347–9

A novel antifolate, MX–68, inhibits the development of autoimmune disease in MRL/lpr mice. Mihara M, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):454–9

Folate, antifolates, and folate analogs in pediatric oncology. Hum MC, et al. **Invest New Drugs** 1996;14(1):101–11 (59 ref.)

Tomudex (ZD1694): from concept to care, a programme in rational drug discovery. Jackman AL, et al. **Invest New Drugs** 1996;14(3):305–16 (83 ref.)

Exploitation of folate and antifolate polyglutamylation to achieve selective anticancer chemotherapy. McGuire JJ, et al. **Invest New Drugs** 1996;14(3):317–23 (28 ref.)

Anti–toxoplasma effect of pyrimethamine, trimethoprim and sulphonamides alone and in combination: implications for therapy. van der Ven AJ, et al. **J Antimicrob Chemother** 1996 Jul;38(1):75–80

Anti–oxidative therapy with oral dapsone improved HCV antibody positive annular elastolytic giant cell granuloma. Igawa K, et al. **J Dermatol** 1997 May;24(5):328–31

Interstitial pregnancy managed medically. A case report. Swaim LS, et al. **J Reprod Med** 1997 May;42(5):312–4

Role of folylpolygutamate synthetase (FPGS) in antifolate chemotherapy; a biochemical and clinical update. Synold TW, et al. **Leuk Lymphoma** 1996 Mar;21(1–2):9–15 (56 ref.)

Low–dose oral methotrexate with expectant management of ectopic pregnancy. Korhonen J, et al. **Obstet Gynecol** 1996 Nov;88(5):775–8

Clinical trials renew interest in old drug for children with leukemia [news] **Oncology (Huntingt)** 1996 May;10(5):665–6

Clinical trials referral resource. Clinical trials with tomudex. Sorensen JM, et al. **Oncology (Huntingt)** 1996 Jul; 10(7):1041–2

Ovarian pregnancies treated with methotrexate. Annunziata N, et al. **Panminerva Med** 1996 Sep;38(3):190–2

Direct evidence that asparagine at position 108 of the Plasmodium falciparum dihydrofolate reductase is involved in resistance to antifolate drugs in Tanzania. Curtis J, et al. **Trans R Soc Trop Med Hyg** 1996 Nov–Dec;90(6):678–80

TOXICITY

Studies on the toxicity of analogues of dapsone in–vitro using rat, human and heterologously expressed metabolizing systems. Coleman MD, et al. **J Pharm Pharmacol** 1996 Sep; 48(9):945–50

URINE

Determination of methotrexate and its main metabolite 7–hydroxymethotrexate in human urine by high–performance liquid chromatography with normal solid–phase extraction. Hirai T, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1–2):267–73

FOLIC ACID DEFICIENCY

see related
ANEMIA, SIDEROBLASTIC

Folic acid: new dimensions of an old friendship. Johnston RB Jr. **Adv Pediatr** 1997;44:231–61 (134 ref.)

Dietary nucleotides: effects on cell proliferation following partial hepatectomy in rats fed NIH–31, AIN–76A, or folate/methyl–deficient diets. Jackson CD, et al. **J Nutr** 1997 May;127(5 Suppl):834S–837S

Effects of folic acid deficiency in pregnant Wistar rats on the activities of D5–3 beta hydroxysteroid dehydrogenase and glucose–6 phosphate dehydrogenase in the ovaries of their litters. Uche–Nwachi EO, et al. **Kaibogaku Zasshi** 1997 Jun;72(3):195–8

BLOOD

Pro–thrombotic effects of a folic acid deficient diet in rat platelets and macrophages related to elevated homocysteine and decreased n–3 polyunsaturated fatty acids. Durand P, et al. **Atherosclerosis** 1996 Apr 5;121(2):231–43

Hyperhomocysteinemia induced by folic acid deficiency and methionine load––applications of a modified HPLC method. Durand P, et al. **Clin Chim Acta** 1996 Aug 15; 252(1):83–93

Marginal folate deficiency as a possible cause of hyperhomocystinaemia in stroke patients. Hultberg B, et al. **Eur J Clin Chem Clin Biochem** 1997 Jan;35(1):25–8

Is metabolic evidence for vitamin B–12 and folate deficiency more frequent in elderly patients with Alzheimer's disease? Joosten E, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):M76–9

[Do you treat your vitamin B12–patients correctly? (letter)] Magnus E. **Tidsskr Nor Laegeforen** 1996 Sep 20; 116(22):2711 **(Nor)**

CHEMICALLY INDUCED

Mechanism for reduction of serum folate by antiepileptic drugs during prolonged therapy. Kishi T, et al. **J Neurol Sci** 1997 Jan;145(1):109–12

Megaloblastic anaemia and pancytopenia secondary to prophylactic cotrimoxazole therapy. Tapp H, et al. **J Paediatr Child Health** 1997 Apr;33(2):166–7

COMPLICATIONS

The role of folate, choline, and methionine in carcinogenesis induced by methyl–deficient diets. Henning SM, et al. **Adv Exp Med Biol** 1996;399:143–55 (78 ref.)

Vulvodynia associated with coeliac disease. Costello C, et al. **Br J Obstet Gynaecol** 1996 Nov;103(11):1162–3

Methylenetetrahydrofolate reductase polymorphism, dietary interactions, and risk of colorectal cancer. Ma J, et al. **Cancer Res** 1997 Mar 15;57(6):1098–102

Marginal folate deficiency as a possible cause of hyperhomocystinaemia in stroke patients. Hultberg B, et al. **Eur J Clin Chem Clin Biochem** 1997 Jan;35(1):25–8

Nutritional vitamin B12 deficiency and folate deficiency in an adolescent patient presenting with anemia, weight loss, and poor school performance. Middleman AB, et al. **J Adolesc Health** 1996 Jul;19(1):76–9

Is metabolic evidence for vitamin B–12 and folate deficiency more frequent in elderly patients with Alzheimer's disease? Joosten E, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):M76–9

The relationship between maternal nutritional status and spontaneous abortion. Neela J, et al. **Natl Med J India** 1997 Jan–Feb;10(1):15–6

Acute folate deficiency in a critically ill patient. Geerlings SE, et al. **Neth J Med** 1997 Jul;51(1):36–8

Central pontine myelinolysis associated with acquired folate depletion. Ramaekers VT, et al. **Neuropediatrics** 1997 Apr; 28(2):126–30

Nutrition and depression: the role of folate. Alpert JE, et al. **Nutr Rev** 1997 May;55(5):145–9 (38 ref.)

Folate, vitamin B12, and neuropsychiatric disorders. Bottiglieri T. **Nutr Rev** 1996 Dec;54(12):382–90 (59 ref.)

Folate: effects on carcinogenesis and the potential for cancer chemoprevention. Mason JB, et al. **Oncology (Huntingt)** 1996 Nov;10(11):1727–36, 1742–3; discussion 1743–4 (109 ref.)

[Folic acid deficiency with leukoencephalopathy and chronic axonal neuropathy of sensory predominance] Guettat L, et al. **Rev Neurol (Paris)** 1997 Jun;153(5):351–3 (Eng. Abstr.) **(Fre)**

[Atrophy of the oro–pharyngeal mucosa caused by vitamin B12 and folic acid deficiency. Etiopathologic aspects and clinico–therapeutic problems] Bottero A, et al. **Minerva Stomatol** 1997 Jul–Aug;46(7–8):359–74 (99 ref.) (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Cobalamin and folate deficiencies [letter] Leeming RJ. **Clin Lab Haematol** 1996 Jun;18(2):126–7

DRUG THERAPY

Long–term treatment of congenital folate malabsorption [letter; comment] Poncz M, et al. **J Pediatr** 1996 Dec; 129(6):948. Comment on: J Pediatr 1981 Jan;98(1):76–9.

EPIDEMIOLOGY

Iron, folate and vitamin B12 status of an elderly South African population. Charlton KE, et al. **Eur J Clin Nutr** 1997 Jul;51(7):424–30

ETIOLOGY

Epithelial cell folate depletion occurs in neoplastic but not adjacent normal colon mucosa. Meenan J, et al. **Gastroenterology** 1997 Apr;112(4):1163–8

What's new about an old disease? [editorial] Barlow JF. **S D J Med** 1997 May;50(5):151–2

GENETICS

Effect of folate deficiency on mutations at the hprt locus in Chinese hamster ovary cells exposed to monofunctional alkylating agents. Branda RF, et al. **Cancer Res** 1997 Jul 1;57(13):2586–8

Apoptosis and proliferation under conditions of deoxynucleotide pool imbalance in liver of folate/methyl deficient rats. James SJ, et al. **Carcinogenesis** 1997 Feb; 18(2):287–93

Folate deficiency causes uracil misincorporation into human DNA and chromosome breakage: implications for cancer and neuronal damage. Blount BC, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3290–5

METABOLISM

Impact of schedule on leucovorin potentiation of fluorouracil antitumor activity in dietary folic acid deplete mice. Raghunathan K, et al. **Biochem Pharmacol** 1997 Apr 25; 53(8):1197–202

Disposition of leucovorin and its metabolites in dietary folic acid–deplete mice – comparison between tumor, liver, and plasma. Raghunathan K, et al. **Cancer Chemother Pharmacol** 1997;40(2):126–30

PHYSIOPATHOLOGY

Folate deficiency in rats induces DNA strand breaks and hypomethylation within the p53 tumor suppressor gene. Kim YI, et al. **Am J Clin Nutr** 1997 Jan;65(1):46–52

Effect of folate deficiency and folate and B12 excess on memory functioning in young chicks. Crowe SF, et al. **Pharmacol Biochem Behav** 1997 Feb;56(2):189–97

Influence of dietary folic acid on the developmental toxicity of methanol and the frequency of chromosomal breakage in the CD–1 mouse. Fu SS, et al. **Reprod Toxicol** 1996 Nov–Dec;10(6):455–63

Influence of maternal folate status on the developmental toxicity of methanol in the CD–1 mouse. Sakanashi TM, et al. **Teratology** 1996 Oct;54(4):198–206

PREVENTION & CONTROL

A 1997 Mother's Day message for your patients: "folic acid––make it a habit" [news] **J Okla State Med Assoc** 1997 Mar;90(3):114

Translation of the advice of the special mixed advisory commission concerning folic acid supplementation for the prevention of neural tube defects. **Verh K Acad Geneeskd Belg** 1996;58(6):635–79; discussion 679–81 (135 ref.) **(Eng, Dut, Fre)**

FOLIC ACID REDUCTASE see **TETRAHYDROFOLATE DEHYDROGENASE**

FOLIE A DEUX see **SHARED PARANOID DISORDER**

FOLINIC ACID see **LEUCOVORIN**

FOLK MEDICINE see **MEDICINE, TRADITIONAL**

FOLK REMEDIES see **MEDICINE, TRADITIONAL**

FOLKLORE

Assigning new meanings to traditional literature: illustrations for HIV educators. Leoutsakas D. **AIDS Educ Prev** 1996 Aug;8(4):375–80

Spiritual healing and folklore research: evaluating the hypnosis/placebo theory. McClenon J. **Altern Ther Health Med** 1997 Jan;3(1):61–6

Muti or ritual murder. Scholtz HJ, et al. **Forensic Sci Int** 1997 Jun 6;87(2):117–23

Fairy–tales in psychotherapy. Dieckmann H. **J Anal Psychol** 1997 Apr;42(2):253–68

Preserving the pot and water: a traditional concept of reproductive health in a Yoruba community, Nigeria. Adetunji JA. **Soc Sci Med** 1996 Dec;43(11):1561–7

FOLLICLE–STIMULATING HORMONE see **FSH**

FOLLICLE–STIMULATING HORMONE, ALPHA SUBUNIT see **GLYCOPROTEIN HORMONES, ALPHA SUBUNIT**

FOLLICLE–STIMULATING HORMONE RECEPTORS see **RECEPTORS, FSH**

FOLLICULAR ATRESIA

Elimination of apoptotic granulosa cells by intact granulosa

cells and macrophages in atretic mature follicles of the guinea pig ovary. Kasuya K. **Arch Histol Cytol** 1997 Jun; 60(2):175–84

Proteolytic activity degrading insulin–like growth factor–binding protein–2, –3, –4, and –5 in healthy growing and atretic follicles in the pig ovary. Besnard N, et al. **Biol Reprod** 1997 Apr;56(4):1050–8

Analysis of atresia in bovine follicles using different methods: flow cytometry, enzyme–linked immunosorbent assay, and classic histology. Blondin P, et al. **Biol Reprod** 1996 Mar; 54(3):631–7

Expression of androgen receptors and steroidogenic enzymes in relation to follicular growth and atresia following ovulation in pigs. Garrett WM, et al. **Biol Reprod** 1996 Nov;55(5):949–55

Expression of different molecular mass forms of inhibin in atretic and nonatretic follicles during the early luteal phase and altrenogest–synchronized follicular phase in pigs. Guthrie HD, et al. **Biol Reprod** 1997 Apr;56(4):870–7

Relationships among oocyte–cumulus morphology, follicular atresia, initial chromatin configuration, and oocyte meiotic competence in the horse. Hinrichs K, et al. **Biol Reprod** 1997 Aug;57(2):377–84

Changes in extracellular matrix components and steroidogenic enzymes during growth and atresia of antral ovarian follicles in the sheep. Huet C, et al. **Biol Reprod** 1997 Apr;56(4):1025–34

Early onset of deoxyribonucleic acid fragmentation during atresia of preovulatory ovarian follicles in rats. Nahum R, et al. **Biol Reprod** 1996 Nov;55(5):1075–80

Follicle–oocyte atresia and temporal taphonomy in cold–stored domestic cat ovaries. Wood TC, et al. **Mol Reprod Dev** 1997 Feb;46(2):190–200

DRUG EFFECTS

Activin–attenuated expression of transcripts encoding granulosa cell–derived insulin–like growth factor binding proteins 4 and 5 in the rat: a putative antiatretic effect. Choi D, et al. **Biol Reprod** 1997 Feb;56(2):508–15

Effects of gonadotropin treatment and withdrawal on follicular growth, cell proliferation, and atresia in ewes. Jablonka–Shariff A, et al. **Biol Reprod** 1996 Sep; 55(3):693–702

Progesterone–induced atresia of the proestrous dominant follicle in the bovine ovary: changes in diameter, insulin–like growth factor system, aromatase activity, steroid hormones, and apoptotic index. Manikkam M, et al. **Biol Reprod** 1997 Sep;57(3):580–7

Recombinant human growth hormone acts on intermediate–sized follicles and rescues growing follicles from atresia. Ozawa K, et al. **Endocr J** 1996 Feb;43(1):87–92

[The effect of naloxone and leu–enkephalin on the atretic changes in the ovarian follicles of hypophysectomized rats] Zaporozhchenko MB, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):18–22 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Expression of Fas–Fas ligand system associated with atresia through apoptosis in murine ovary. Mori T, et al. **Horm Res** 1997;48 Suppl 3:11–9

METABOLISM

Rat ovarian insulin–like growth factor binding protein–4: a hormone–dependent granulosa cell–derived antigonadotropin. Putowski L, et al. **J Soc Gynecol Investig** 1997 May–Jun;4(3):144–51

PHYSIOLOGY

Form and function of lacunae in the ovary of the laying hen. Nili H, et al. **Anat Rec** 1996 Feb;244(2):165–74

Regulation of ovarian follicle atresia. Kaipia A, et al. **Annu Rev Physiol** 1997;59:349–63 (89 ref.)

Follicular Atresia, follicular fluid hormones, and circulating hormones during the midluteal phase of the estrous cycle in pigs. Guthrie HD, et al. **Biol Reprod** 1996 Sep; 55(3):543–7

Expression of avian urokinase and tissue–type plasminogen activator messenger ribonucleic acid during follicle development and atresia. Johnson AL, et al. **Biol Reprod** 1997 Mar;56(3):581–8

Morphological evidence of apoptosis and the prevalence of apoptotic versus mitotic cells in the membrana granulosa of ovarian follicles during spontaneous and induced atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):837–46

Granulosa cell apoptosis, aromatase activity, cyclic adenosine 3',5'–monophosphate response to gonadotropins, and follicular fluid steroid levels during spontaneous and induced follicular atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):830–6

Progesterone–induced atresia of the proestrous dominant follicle in the bovine ovary: changes in diameter, insulin–like growth factor system, aromatase activity, steroid hormones, and apoptotic index. Manikkam M, et al. **Biol Reprod** 1997 Sep;57(3):580–7

Temporal changes in inhibin, steroid hormones, and steroidogenic enzymes during induced follicular atresia in the hypophysectomized cyclic hamster. Otsuka M, et al. **Biol Reprod** 1997 Feb;56(2):423–9

Ovarian follicular kinetics in response to enucleation and parietal shielding in Rana cyanophlyctis. Udaykumar K, et al. **Gen Comp Endocrinol** 1996 Sep;103(3):244–8

Does apoptosis contribute follicular atresia and luteal regression in human ovary? Fukaya T, et al. **Horm Res** 1997;48 Suppl 3:20–6

Follicular maturation and atresia––possible role of intraovarian regulatory factors. Mukhopadhyay AK, et al. **J Reprod Fertil Suppl** 1996;50:105–12

Involvement of Fas antigen in ovarian follicular atresia and luteolysis. Sakamaki K, et al. **Mol Reprod Dev** 1997 May; 47(1):11–8

Growth factors in ovarian follicle atresia. Chun SY, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):197–202 (39 ref.)

[The dynamics of the somatotropin content in the follicular fluid during maturation and atresia of the antral follicles in bovine ovaries] Lebedeva IIu, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov;82(10–11):91–7 (Eng. Abstr.) **(Rus)**

FOLLICULAR CYST

DIAGNOSIS

A case of generalized eruptive vellus hair cysts [letter] Kwon KS, et al. **J Dermatol** 1997 Aug;24(8):556–7

METABOLISM

Effect of dental cyst epithelium–conditioned medium on collagenase production by periodontal ligament fibroblasts. Ohshima M, et al. **J Nihon Univ Sch Dent** 1997 Mar; 39(1):31–3

PATHOLOGY

Thymic follicular hyperplasia manifested as an anterior mediastinal mass. Mizuno T, et al. **Surg Today** 1997; 27(3):275–7

SURGERY

The laparoscopic approach to uterine adnexal torsion in childhood. Cohen Z, et al. **J Pediatr Surg** 1996 Nov; 31(11):1557–9

VETERINARY

Induction of luteinizing hormone surge by pulsatile administration of gonadotropin–releasing hormone analogue in cows with follicular cysts. Kawate N, et al. **J Vet Med Sci** 1997 Jun;59(6):463–6

FOLLICULAR FLUID

Acrosomal status of human spermatozoa after follicular fluid or calcium ionophore challenge in relation to semen parameters and fertilizing capacity in vitro. Avrech O, et al. **Andrologia** 1997 Mar–Apr;29(2):97–101

Motility of spermatozoa in hydrosalpingeal and follicular fluid of pigs. Nichol R, et al. **J Reprod Fertil** 1997 May; 110(1):79–86

[Optimization of embryo production in cattle by aspiration of the fluid from large follicles before induction of superovulation with the assistance of an ovary puncture cannula] Nohner HP, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug–Sep; 103(8–9):302–5 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Fibronectin concentrations correlate with ovarian follicular size and estradiol values in equine follicular fluid. Gentry PA, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):91–102

Effect of progesterone pre–treatment on steroid secretion rates and follicular fluid insulin–like growth factor–1 concentrations in seasonally anoestrous ewes treated with gonadotrophin releasing hormone. Khalid M, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):69–78

Structural and functional comparison of HDL from homologous human plasma and follicular fluid. A model for extravascular fluid. Jaspard B, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1605–13

Macrophage migration inhibitory factor in the human ovary: presence in the follicular fluids and production by granulosa cells. Wada S, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):805–14

Purification of GnSAF from human follicular fluid for production of a monoclonal antibody. Bates RL, et al. **Biochem Soc Trans** 1996 May;24(2):269S

Insulin–like growth factor system in bovine first–wave dominant and subordinate follicles. de la Sota RL, et al. **Biol Reprod** 1996 Oct;55(4):803–12

Concentrations of steroids and biochemical constituents in follicular fluid of buffalo cows during different stages of the oestrous cycle. Eissa HM. **Br Vet J** 1996 Sep; 152(5):573–81

Detection of immunoreactive interleukin–11 in human follicular fluid: correlations with ovarian steroid, insulin–like growth factor I levels, and follicular maturity. Branisteanu I, et al. **Fertil Steril** 1997 Jun;67(6):1054–8

Elevated levels of interleukin–6 in the follicular fluid at the time of oocyte retrieval for in vitro fertilization may predict the development of early–form ovarian hyperstimulation syndrome. Geva E, et al. **Fertil Steril** 1997 Jul;68(1):133–7

Increased follicular fluid total and free cortisol levels during the luteinizing hormone surge. Harlow CR, et al. **Fertil Steril** 1997 Jul;68(1):48–53

Colony stimulating factor–1 in human follicular fluid. Witt BR, et al. **Fertil Steril** 1997 Aug;68(2):259–64

Immunodetection of cotinine protein in granulosa–lutein cells of women exposed to cigarette smoke. Zenzes MT, et al. **Fertil Steril** 1997 Jul;68(1):76–82

Comparison between steroid hormones and cortisol in serum and follicular fluid in stimulated and unstimulated cycles of in vitro fertilization patients. Mantzavinos T, et al. **Gynecol Endocrinol** 1997 Jun;11(3):163–8

Steroidogenesis–inducing protein, isolated from human ovarian follicular fluid, is a potent mitogen for cell lines derived from ovarian surface epithelial carcinomas. Khan SA, et al. **Gynecol Oncol** 1997 Sep;66(3):501–8

The detection of blood contamination in human follicular fluid. Levay PF, et al. **J Assist Reprod Genet** 1997 Apr; 14(4):212–7

Relationship between anticomplement in seminal plasma and complement in follicular fluid associated with outcome in an in vitro fertilization program. Zabludovsky N, et al. **J Assist Reprod Genet** 1996 Jul;13(6):472–6

Development, validation and application of a two–site enzyme–linked immunosorbent assay for activin–AB. Evans LW, et al. **J Endocrinol** 1997 May;153(2):221–30

Sampling follicular fluid without altering follicular status in cattle: oestradiol concentrations early in a follicular wave. Ginther OJ, et al. **J Reprod Fertil** 1997 Mar;109(2):181–6

Partial purification from bovine follicular fluid of a factor of low molecular mass with inhibitory effects on the proliferation of bovine granulosa cells in vitro and on rat follicular development in vivo. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):185–91

Isolation and characterization of maturation inhibiting compound in bovine follicular fluid. Dostál J, et al. **Reprod Nutr Dev** 1996;36(6):681–90

Identification of hyaluronic acid and chondroitin sulfates in human follicular fluid and their effects on human sperm motility and the outcome of in vitro fertilization. Hamamah S, et al. **Reprod Nutr Dev** 1996;36(1):43–52

CYTOLOGY

Application of image analysis cytometry in follicular fluid cells obtained from in–vitro fertilization cycles: relationships to patient's age, oocyte maturity, fertilizability and in–vitro fertilization outcome. Agorastos T, et al. **Hum Reprod** 1996 Oct;11(10):2200–7

Flow cytometric analysis of granulosa cells from follicular fluid after follicular stimulation. Neubourg DD, et al. **Hum Reprod** 1996 Oct;11(10):2211–4

ENZYMOLOGY

Platelet–activating factor acetylhydrolase activity in human follicular fluid. Narahara H, et al. **Adv Exp Med Biol** 1996; 416:121–7 (27 ref.)

Proteolytic activity degrading insulin–like growth factor–binding protein–2, –3, –4, and –5 in healthy growing and atretic follicles in the pig ovary. Besnard N, et al. **Biol Reprod** 1997 Apr;56(4):1050–8

IMMUNOLOGY

Cytokines of the human reproductive tract. Srivastava MD, et al. **Am J Reprod Immunol** 1996 Sep;36(3):157–66

METABOLISM

Interleukin–10 in preovulatory follicular fluid of patients undergoing in–vitro fertilization and embryo transfer. Geva E, et al. **Am J Reprod Immunol** 1997 Feb;37(2):187–90

Preincubation in peritoneal fluid decreases the follicular fluid–induced acrosomal reactivity of human spermatozoa. Revelli A, et al. **Andrologia** 1997 Jan–Feb;29(1):43–8

Insulin–like growth factor I and insulin–like growth factor–binding proteins in bovine serum and follicular fluid before and after the preovulatory surge of luteinizing hormone. Funston RN, et al. **Biol Reprod** 1996 Dec; 55(6):1390–6

Follicular Atresia, follicular fluid hormones, and circulating hormones during the midluteal phase of the estrous cycle in pigs. Guthrie HD, et al. **Biol Reprod** 1996 Sep; 55(3):543–7

Immunoneutralization of transforming growth factor alpha present in bovine follicular fluid prevents the suppression of the follicle–stimulating hormone–induced production of estradiol by bovine granulosa cells cultured in vitro. Rouillier P, et al. **Biol Reprod** 1997 Aug;57(2):341–6

Effects of bovine follicular fluid and passive immunization against gonadotropin–releasing hormone (GnRH) on messenger ribonucleic acid for GnRH receptor and gonadotropin subunits in ovariectomized ewes. Turzillo AM, et al. **Biol Reprod** 1997 Jun;56(6):1537–43

Biological activity of hormones in preovulatory follicular fluid and serum of women undergoing ovarian stimulation. Andersen CY. **Dan Med Bull** 1997 Jun;44(3):257–73 (180 ref.)

Müllerian–inhibiting substance in follicular fluid and serum: a comparison of patients with tubal factor infertility, polycystic ovary syndrome, and endometriosis. Fallat ME, et al. **Fertil Steril** 1997 May;67(5):962–5

Vascular endothelial growth factor levels in serum and follicular fluid of patients undergoing in vitro fertilization.

Lee A, et al. **Fertil Steril** 1997 Aug;68(2):305–11

Insulin–like growth factors and insulin–like growth factor binding proteins in androgen–dominant ovarian follicles from testosterone–treated female–to–male trans–sexuals. Yap OW, et al. **Fertil Steril** 1997 Aug;68(2):252–8

Leukaemia inhibitory factor expression in human follicular fluid and ovarian cells. Arici A, et al. **Hum Reprod** 1997 Jun;12(6):1233–9

Relationship between tumour necrosis factor alpha and sex steroid concentrations in the follicular fluid of women with immunological infertility. Cianci A, et al. **Hum Reprod** 1996 Feb;11(2):265–8

Immunoreactive endothelin–1, endothelin–2 and big endothelin–1 in follicular fluids of women undergoing ovulation induction for in–vitro fertilization. Haq A, et al. **Hum Reprod** 1996 Feb;11(2):269–73

Different protein patterns derived from follicular fluid of mature and immature human follicles. Spitzer D, et al. **Hum Reprod** 1996 Apr;11(4):798–807

Nitric oxide concentrations in the follicular fluid and apoptosis of granulosa cells in human follicles. Sugino N, et al. **Hum Reprod** 1996 Nov;11(11):2484–7

Inhibin in individual buffalo ovarian follicles in relation to size. Palta P, et al. **Indian J Exp Biol** 1996 Jun;34(6):606–8

Viscosity and refractive index of follicular fluid in relation to in vitro fertilization. Fisch B, et al. **J Assist Reprod Genet** 1996 Jul;13(6):468–71

Adjunctive growth hormone during ovarian hyperstimulation increases levels of insulin–like growth factor binding proteins in follicular fluid: a randomized, placebo–controlled, cross–over study. Rabinovici J, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1171–6

The biological and immunological characterization of inhibin A and B forms in human follicular fluid and plasma. Robertson DM, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):889–96

Low levels of follicle–stimulating hormone receptor–activation inhibitors in serum and follicular fluid from normal controls and anovulatory patients with or without polycystic ovary syndrome. Schipper I, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1325–31

Serum and follicular fluid levels of insulin–like growth factor I (IGF–I), IGF–II, and IGF–binding protein–1 and –3 during the normal menstrual cycle. Thierry van Dessel HJ, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1224–31

Modulation of the insulin–like growth factor–binding proteins by follicle size in the human ovary. Cwyfan Hughes S, et al. **J Endocrinol** 1997 Jul;154(1):35–43

Internal pH of human spermatozoa: effect of ions, human follicular fluid and progesterone. Hamamah S, et al. **Mol Hum Reprod** 1996 Apr;2(4):219–24

Granulocyte–macrophage colony–stimulating factor: presence in human follicular fluid, protein secretion and mRNA expression by ovarian cells. Jasper MJ, et al. **Mol Hum Reprod** 1996 Aug;2(8):555–62

The human preovulatory follicle is a source of the chemotactic cytokine interleukin–8. Runesson E, et al. **Mol Hum Reprod** 1996 Apr;2(4):245–50

Bioactive angiotensin (1–8) is the main component of angiotensin II immunoreactivity in human follicular fluid. Delbaere A, et al. **Peptides** 1996;17(7):1135–8

Control of ovarian innervation. Gioia L. **Zygote** 1996 Nov; 4(4):295–8 (35 ref.)

PHYSIOLOGY

Activation of the acrosome reaction after treatment with human follicular fluid. A morphofunctional evaluation useful for in vitro fertilization. Ruvolo G, et al. **Acta Eur Fertil** 1995 Jul–Aug;26(4):125–30

Characteristics of calcium ion influx induced by human follicular fluid in individual human sperm. Shiomi H, et al. **Arch Androl** 1996 Sep–Oct;37(2):79–86

Granulosa cell apoptosis, aromatase activity, cyclic adenosine 3',5'–monophosphate response to gonadotropins, and follicular fluid steroid levels during spontaneous and induced follicular atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):830–6

Morphological evidence of apoptosis and the prevalence of apoptotic versus mitotic cells in the membrana granulosa of ovarian follicles during spontaneous and induced atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):837–46

Effects of follicular fluid during in vitro maturation of bovine oocytes on in vitro fertilization and early embryonic development. Romero–Arredondo A, et al. **Biol Reprod** 1996 Nov;55(5):1012–6

Development of ovine embryos in synthetic oviductal fluid containing amino acids at oviductal fluid concentrations. Walker SK, et al. **Biol Reprod** 1996 Sep;55(3):703–8

Follicular tissues reduce drug effects on ion channels in oocytes of Xenopus laevis. Madeja M, et al. **Eur J Neurosci** 1997 Mar;9(3):599–604

Effect of follicular fluid on granulosa luteal cells from polycystic ovary. Andreani CL, et al. **Hum Reprod** 1996 Oct;11(10):2107–13

The influence of sera, follicular fluids and seminal plasma on human sperm–zona pellucida binding. Huyser C, et al. **Hum Reprod** 1997 Apr;12(4):792–9

Human follicular fluid inhibits the binding of human spermatozoa to zona pellucida in vitro. Yao YQ, et al. **Hum Reprod** 1996 Dec;11(12):2674–80

Characteristics of proteoglycans of buffalo ovarian follicular fluid during maturation of follicles. Boushehri I, et al. **Indian J Biochem Biophys** 1996 Jun;33(3):213–7

The acrosome reaction response assay: a new way to identify patients in whom pentoxifylline would improve the human follicular fluid–induced acrosome reaction. Briggiler CI, et al. **Int J Androl** 1997 Apr;20(2):96–103

[The dynamics of the somatotropin content in the follicular fluid during maturation and atresia of the antral follicles in bovine ovaries] Lebedeva IIu, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov;82(10–11):91–7 (Eng. Abstr.) **(Rus)**

[Participation of the follicular fluid in follicular development, oocyte maturation and spermatic function] Durán Reyes G, et al. **Ginecol Obstet Mex** 1997 Aug;65:349–56 (34 ref.) (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Measurement error—"How much of a difference does it take to make a difference?" [editorial; comment] McDonough PG. **Fertil Steril** 1997 Apr;67(4):790–1. Comment on: Fertil Steril 1996 Feb;65(2):371–6. Comment on: Fertil Steril 1997 Apr;67(4):789.

Measurement error—"how much of a difference does it take to make a difference"? [letter; comment] [see comments] Wang ST, et al. **Fertil Steril** 1997 Apr;67(4):789. Comment on: Fertil Steril 1996 Feb;65(2):371–6. Comment in: Fertil Steril 1997 Apr;67(4):790–1.

FOLLICULAR LYMPHOMA see **LYMPHOMA, FOLLICULAR**

FOLLICULAR PHASE

Controlled ovarian hyperstimulation in women > or = 40 years old undergoing IVF–ET: mid–luteal versus early follicular (flare–up) GnRH analog regimens. Borini A, et al. **Acta Eur Fertil** 1995 Mar–Apr;26(2):59–61

Interleukin–8 expression and modulation in human preovulatory follicles and ovarian cells. Arici A, et al. **Endocrinology** 1996 Sep;137(9):3762–9

Synaptic remodeling in the arcuate nucleus during the estrous cycle is induced by estrogen and precedes the preovulatory gonadotropin surge. Naftolin F, et al. **Endocrinology** 1996 Dec;137(12):5576–80

Inhibin A and inhibin B are inversely correlated to follicle–stimulating hormone, yet are discordant during the follicular phase of the rat estrous cycle, and inhibin A is expressed in a sexually dimorphic manner. Woodruff TK, et al. **Endocrinology** 1996 Dec;137(12):5463–7

Endometrial evaluation by aspiration biopsy on the day of oocyte retrieval in the embryo transfer cycles in patients with serum progesterone rise during the follicular phase. Ubaldi F, et al. **Fertil Steril** 1997 Mar;67(3):521–6

Immunohistochemical localization of transforming growth factor–beta 1 beta 2 during folliculogenesis in the quail ovary. Van Nassauw L, et al. **Histochem J** 1996 Dec; 28(12):859–65

Length of the follicular phase, time of insemination, coital rate and the sex of offspring. Martin JF. **Hum Reprod** 1997 Mar;12(3):611–6 (39 ref.)

Relationship between endometrial histology, morphometry and ultrasound texture in the follicular phase of infertile women with natural menstrual cycles. Miyara M, et al. **Hum Reprod** 1996 Aug;11(8):1719–23

Effect of menstrual cycle phase on neuroendocrine and behavioral responses to the serotonin agonist m–chlorophenylpiperazine in women with premenstrual syndrome and controls. Su TP, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1220–8

Frequency modulation of follicle–stimulating hormone (FSH) during the luteal–follicular transition: evidence for FSH control of inhibin B in normal women. Welt CK, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2645–52

Interleukin–1 stimulates luteinizing hormone release during the midfollicular phase in the rhesus monkey: a novel way in which stress may influence the menstrual cycle. Xiao E, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2136–41

Gonadotrope responsiveness in orchidectomized sheep: effect of duration of a simulated follicular phase. Sakurai H, et al. **J Reprod Fertil** 1996 Nov;108(2):211–7

Premenstrual asthma: still poorly understood [editorial; comment] O'Connor BJ. **Thorax** 1997 Jul;52(7):591–2. Comment on: Thorax 1997 Jul;52(7):608–11.

[Participation of the follicular fluid in follicular development, oocyte maturation and spermatic function] Durán Reyes G, et al. **Ginecol Obstet Mex** 1997 Aug;65:349–56 (34 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Serum CA–125 concentrations during midfollicular phase, a clinically useful and reproducible marker in diagnosis of advanced endometriosis. Hompes PG, et al. **Clin Chem** 1996 Nov;42(11):1871–4

Relationship of early follicular phase sera follicle stimulating hormone and luteinizing hormone levels as measured by a radioimmunoassay and an enzyme–linked immunosorbent assay to number of oocytes retrieved. Check JH, et al. **Clin Exp Obstet Gynecol** 1996;23(2):83–6

Hormonal profile during the follicular phase in cycles stimulated with a combination of human menopausal gonadotrophin and gonadotrophin–releasing hormone antagonist (Cetrorelix). Albano C, et al. **Hum Reprod** 1996 Oct;11(10):2114–8

Ovarian hyperstimulation syndrome: pre–ovulatory serum concentrations of interleukin–6, interleukin–1 receptor antagonist and tumour necrosis factor–alpha cannot predict its occurrence. Loret de Mola JR, et al. **Hum Reprod** 1996 Jul;11(7):1377–80

Oocyte and embryo quality as well as pregnancy rate in intracytoplasmic sperm injection are not affected by high follicular phase serum progesterone. Ubaldi F, et al. **Hum Reprod** 1995 Dec;10(12):3091–6

Relative bioactivity of endogenous luteinizing hormone during superovulation therapy for in vitro fertilization in normal–cycling women. Abuzeid MI, et al. **J Assist Reprod Genet** 1996 Sep;13(8):629–34

DRUG EFFECTS

Initiation of high dose gonadotrophin–releasing hormone antagonist treatment during the late follicular phase in the macaque abolishes luteal function irrespective of effects upon the luteinizing hormone surge. Fraser HM, et al. **Hum Reprod** 1997 Mar;12(3):430–5

Pituitary response to early follicular–phase minidose gonadotropin releasing hormone agonist (GnRHa) therapy: evidence for a second flare. Deaton JL, et al. **J Assist Reprod Genet** 1996 May;13(5):390–4

Prostaglandin synthesis is suppressed by progesterone in rat preovulatory follicles in vitro. Hedin L, et al. **Prostaglandins** 1997 Feb;53(2):91–106

IMMUNOLOGY

Interleukin–10 in preovulatory follicular fluid of patients undergoing in–vitro fertilization and embryo transfer. Geva E, et al. **Am J Reprod Immunol** 1997 Feb;37(2):187–90

Midfollicular anticardiolipin and antiphosphatidylserine antibody titers do not correlate with in vitro fertilization outcome. Kowalik A, et al. **Fertil Steril** 1997 Aug; 68(2):298–304

METABOLISM

Steroidogenic enzyme expression during preovulatory follicle maturation in pigs. Garrett WM, et al. **Biol Reprod** 1997 Jun;56(6):1424–31

FSH isoforms: bio and immuno–activities in post–menopausal and normal menstruating women. Creus S, et al. **Clin Endocrinol (Oxf)** 1996 Feb;44(2):181–9

Sampling follicular fluid without altering follicular status in cattle: oestradiol concentrations early in a follicular wave. Ginther OJ, et al. **J Reprod Fertil** 1997 Mar;109(2):181–6

The expression of leptin and its receptors in pre–ovulatory human follicles. Cioffi JA, et al. **Mol Hum Reprod** 1997 Jun;3(6):467–72

Loss of normal cyclical beta 2 adrenoceptor regulation and increased premenstrual responsiveness to adenosine monophosphate in stable female asthmatic patients [see comments] Tan KS, et al. **Thorax** 1997 Jul;52(7):608–11. Comment in: Thorax 1997 Jul;52(7):591–2.

PHYSIOLOGY

Feedback actions of estradiol on GnRH secretion during the follicular phase of the estrous cycle. Karsch FJ, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):715–25 (35 ref.)

Growth–regulated alpha expression in human preovulatory follicles and ovarian cells. Oral E, et al. **Am J Reprod Immunol** 1997 Jul;38(1):19–25

The influence of latent hyperprolactinaemia on the levels of LH, FSH, E2 and T in the midfollicular phase of the cycle. Koštál M, et al. **Arch Gynecol Obstet** 1997; 259(2):65–8

A local oxytocin system is part of the luteinization process in the preovulatory follicle of the marmoset monkey (Callithrix jacchus). Einspanier A, et al. **Biol Reprod** 1997 Jul;57(1):16–26

Biological activity of hormones in preovulatory follicular fluid and serum of women undergoing ovarian stimulation. Andersen CY. **Dan Med Bull** 1997 Jun;44(3):257–73 (180 ref.)

Manipulation of human ovarian function: physiological concepts and clinical consequences. Fauser BC, et al. **Endocr Rev** 1997 Feb;18(1):71–106 (412 ref.)

Increased follicular fluid total and free cortisol levels during the luteinizing hormone surge. Harlow CR, et al. **Fertil Steril** 1997 Jul;68(1):48–53

Expression and regulation of mRNA for inhibin/activin alpha– and betaA–subunits in the granulosa layer of the two largest preovulatory follicles during the hen ovulatory cycle. Chen CC, et al. **Gen Comp Endocrinol** 1997 Sep; 107(3):386–93

Increased interleukin–1 and interleukin–1 receptor antagonist levels in cervical mucus in the ovulatory phase in comparison with the follicular phase. Kanai T, et al. **Gynecol Obstet Invest** 1997;43(3):166–70

Specific gonadotrophin–releasing hormone analogue binding predominantly in human luteinized follicular aspirates and not in human pre–ovulatory follicles. Brus L, et al. **Hum Reprod** 1997 Apr;12(4):769–73

Luteal phase oestradiol and progesterone levels are stronger predictors than follicular phase follicle stimulating hormone for the outcome of in–vitro fertilization treatment in women with tubal infertility. Csemiczky G, et al. **Hum Reprod** 1996 Nov;11(11):2396–9

Follicular phase length, time of insemination, mean cycle length, season of mother's birth and sex ratio of offspring [letter; comment] James WH. **Hum Reprod** 1997 Feb; 12(2):398–9. Comment on: Hum Reprod 1995 Feb;10(2):304–7.

Intraovarian blood flow during spontaneous and stimulated cycles. Lunenfeld E, et al. **Hum Reprod** 1996 Nov; 11(11):2481–3

Vasopressin and atrial natriuretic hormone response to hypertonic saline during the follicular and luteal phases of the menstrual cycle. Trigoso WF, et al. **Hum Reprod** 1996 Nov;11(11):2392–5

Modifications of the human oocyte plasma membrane protein pattern during preovulatory maturation. Ji YZ, et al. **Mol Reprod Dev** 1997 May;47(1):120–6

Thyroid hormone as a regulator of basal and human chorionic gonadotrophin–stimulated steroidogenesis by cultured porcine theca and granulosa cells isolated at different stages of the follicular phase. Gregoraszczuk EL, et al. **Reprod Fertil Dev** 1996;8(6):961–7

Development of oocytes derived from the first dominant follicles of beef cows. Otoi T, et al. **Vet Rec** 1996 Oct 19;139(16):396

[The role of growth factors during follicular development and maturation in the mammal ovary] Ortega–Camarillo C, et al. **Ginecol Obstet Mex** 1997 Feb;65:68–77 (Eng. Abstr.) **(Spa)**

[Correlation between plasma progesterone and ultrasonographic detection of corpus luteum in ovulatory cycles] Manzur A, et al. **Rev Chil Obstet Ginecol** 1995; 60(3):168–73 (Eng. Abstr.) **(Spa)**

FOLLICULITIS

BLOOD

Ofuji's disease and cytokines: Remission of eosinophilic pustular folliculitis associated with increased serum concentrations of interferon gamma. Teraki Y, et al. **Dermatology** 1996;192(1):16–8

CHEMICALLY INDUCED

Hyperplastic pseudofolliculitis barbae associated with cyclosporin [letter] Lear J, et al. **Br J Dermatol** 1997 Jan; 136(1):132–3

Lithium–induced follicular hyperkeratosis. Wakelin SH, et al. **Clin Exp Dermatol** 1996 Jul;21(4):296–8

[Gram–negative folliculitis. Complication of antibiotic therapy of acne vulgaris, 1: Disease picture and classification—special form: whirlpool dermatitis] Jansen T, et al. **Fortschr Med** 1997 Jan 30;115(3):37–8 **(Ger)**

[Gram negative folliculitis. A complication of antibiotic therapy of acne vulgaris. 2: Diagnosis and differential diagnosis—therapy] Jansen T, et al. **Fortschr Med** 1997 Feb 10;115(4):42–4 **(Ger)**

COMPLICATIONS

Progress and new directions in the investigation of the specific dermatoses of pregnancy. Black MM. **Keio J Med** 1997 Mar;46(1):40–1 (13 ref.)

DIAGNOSIS

Picture of the month. Folliculitis, furunculosis, and carbuncles. Eley CD, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):625–6

Pruritic follicular facial rash: eosinophilic folliculitis. Kossard S, et al. **Australas J Dermatol** 1997 Aug;38(3):161–2

Eosinophilic pustular folliculitis (Ofuji disease) in a child. Lazarov A, et al. **Cutis** 1996 Aug;58(2):135–8 (14 ref.)

The superficial mycoses. Assaf RR, et al. **Dermatol Clin** 1996 Jan;14(1):57–67 (67 ref.)

[Tufted hair folliculitis] Trüeb RM, et al. **Hautarzt** 1997 Apr; 48(4):266–9 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Non–infective mucocutaneous presentations of human immunodeficiency virus infection. Hamann ID, et al. **Australas J Dermatol** 1997 Aug;38(3):105–12; quiz 113–4 (43 ref.)

Severe folliculitis with keloid scars induced by wax epilation in adolescents. Mimouni–Bloch A, et al. **Cutis** 1997 Jan; 59(1):41–2

Diving suit dermatitis: a manifestation of Pseudomonas folliculitis. Saltzer KR, et al. **Cutis** 1997 May;59(5):245–6

[AIDS–related eosinophilic folliculitis. Efficacy of high dose topical corticotherapy] Grange F, et al. **Ann Dermatol Venereol** 1996;123(8):456–9 (Eng. Abstr.) **(Fre)**

[Folliculitis in a patient undergoing kidney transplantation (letter)] Ojeda–Vargas M, et al. **Enferm Infecc Microbiol Clin** 1995 Dec;13(10):637 **(Spa)**

MICROBIOLOGY

Pseudomonas folliculitis. Hogan PA. **Australas J Dermatol** 1997 May;38(2):93–4

Candida folliculitis mimicking tinea barbae. Kapdağli H, et al. **Int J Dermatol** 1997 Apr;36(4):295–7

Malassezia furfur folliculitis of the vulva: olive oil solves the mystery. Nyirjesy P, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):710–1

[Candida folliculitis: superficial dermatitis or septicemia?] Piérard GE, et al. **Rev Med Liege** 1996 Sep;51(9):565 **(Fre)**

PARASITOLOGY

Demodex–associated folliculitis. Vollmer RT. **Am J Dermatopathol** 1996 Dec;18(6):589–91

PATHOLOGY

Chronic acneiform eruption with crateriform scars. Acne necrotica (varioliformis) (necrotizing lymphocytic folliculitis). Zirn JR, et al. **Arch Dermatol** 1996 Nov; 132(11):1367, 1370

Are eosinophilic pustular folliculitis of infancy and infantile acropustulosis the same entity? Vicente J, et al. **Br J Dermatol** 1996 Nov;135(5):807–9

Acne keloidalis nuchae and tufted hair folliculitis. Luz Ramos M, et al. **Dermatology** 1997;194(1):71–3

Scarring folliculitis in the ectrodactyly–ectodermal dysplasia–clefting syndrome. Histologic, scanning electron–microscopic and biophysical studies of hair. Trüeb RM, et al. **Dermatology** 1997;194(2):191–4

Eosinophilic pustular folliculitis (Ofuji's disease). Blume–Peytavi U, et al. **J Am Acad Dermatol** 1997 Aug; 37(2 Pt 1):259–62

[Morphology of Malassezia–associated diseases] Mittag H. **Mycoses** 1996;39 Suppl 1:13–9 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

I–131 accumulation in folliculitis of the scalp. Kinuya S, et al. **Clin Nucl Med** 1996 Oct;21(10):807–8

ULTRASONOGRAPHY

Ultrasound examination of hair follicles in hidradenitis suppurativa. Jemec GB, et al. **Arch Dermatol** 1997 Aug; 133(8):967–70

VIROLOGY

Viral folliculitis. Atypical presentations of herpes simplex, herpes zoster, and molluscum contagiosum [see comments] Weinberg JM, et al. **Arch Dermatol** 1997 Aug;133(8):983–6 . Comment in: Arch Dermatol 1997 Aug;133(8):1039–41.

FOLLICULOSTATIN see **INHIBIN**

FOLLOW–UP STUDIES

Follow up studies: a case for a standard minimum data set. Johnson A. **Arch Dis Child Fetal Neonatal Ed** 1997 Jan; 76(1):F61–3

A note on quantifying follow–up in studies of failure time. Schemper M, et al. **Control Clin Trials** 1996 Aug; 17(4):343–6

Unstable equilibrium [editorial] Lutter LD. **Foot Ankle Int** 1997 Sep;18(9):533–4

Now you see it, now you don't: a comparison of traditional versus random–effects regression models in the analysis of longitudinal follow–up data from a clinical trial. Nich C, et al. **J Consult Clin Psychol** 1997 Apr;65(2):252–61

The utility of follow–up testing after curative cancer therapy. A critical review and economic analysis. Edelman MJ, et al. **J Gen Intern Med** 1997 May;12(5):318–31 (133 ref.)

Loss to follow–up in a sample of Americans 70 years of age and older: The LSOA 1984–1990. Mihelic AH, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jan;52(1):S37–48

Tracing patients in rural Africa [see comments] Strang JI. **Lancet** 1996 Oct 19;348(9034):1083–4. Comment in: Lancet 1996 Dec 7;348(9041):1598.

Tracing patients with myocardial infarction for a 10–year follow–up study. Froelicher ES. **Nurs Res** 1996 Nov–Dec; 45(6):341–4 (16 ref.)

Strategies for follow–up of drug users: field research guidelines. Spotts D, et al. **Subst Use Misuse** 1996 Nov; 31(13):1891–927

Follow–up in colorectal cancer. Andreoni B, et al. **Tumori** 1997 Jan–Feb;83(1 Suppl):S19–20

FOLYL CONJUGATE SYNTHETASE see **PTEROYL POLYGLUTAMATE HYDROLASE**

FONTAN OPERATION see **FONTAN PROCEDURE**

FONTAN PROCEDURE

The Fontan procedure in adults. Gates RN, et al. **Ann Thorac Surg** 1997 Apr;63(4):1085–90

Pulmonary atresia with intact ventricular septum: results of the Fontan procedure. Najm HK, et al. **Ann Thorac Surg** 1997 Mar;63(3):669–75

Enalapril does not enhance exercise capacity in patients after Fontan procedure. Kouatli AA, et al. **Circulation** 1997 Sep 2;96(5):1507–12

Update on the modified Fontan procedure [see comments] Geggel RL. **Curr Opin Cardiol** 1997 Jan;12(1):51–62 (80 ref.). Comment in: Curr Opin Cardiol 1997 Jan;12(1):41–3.

Percutaneous transhepatic dual chamber pacing in children with Fontan circulation. Adwani SS, et al. **Heart** 1997 Jun; 77(6):574–5

Sequelae after modified Fontan operation: postoperative haemodynamic data and organ function. Kaulitz R, et al. **Heart** 1997 Aug;78(2):154–9

Cardiorespiratory response to exercise after modified Fontan operation: determinants of performance. Durongpisitkul K, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):785–90

The Fontan procedure for pulmonary atresia with intact ventricular septum: operative and late results. Mair DD, et al. **J Am Coll Cardiol** 1997 May;29(6):1359–64

Reversal of protein–losing enteropathy with heparin therapy in three patients with univentricular hearts and Fontan palliation. Donnelly JP, et al. **J Pediatr** 1997 Mar; 130(3):474–8

Obstruction of the right pulmonary veins after the modified Fontan operation [letter; comment] Elzenga NJ, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):219. Comment on: J Thorac Cardiovasc Surg 1996 Jun;111(6):1169–76.

Factors that influence the development of atrial flutter after the Fontan operation. Fishberger SB, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):80–6

Effect of volume unloading surgery on coronary flow dynamics in patients with aortic atresia. Fogel MA, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):718–26; discussion 726–7

Inhaled nitric oxide in patients with critical pulmonary perfusion after Fontan–type procedures and bidirectional Glenn anastomosis. Gamillscheg A, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):435–42

Fontan operation in five hundred consecutive patients: factors influencing early and late outcome. Gentles TL, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):376–91

Functional outcome after the Fontan operation: factors influencing late morbidity. Gentles TL, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):392–403; discussion 404–5

Coagulation factor abnormalities after the Fontan procedure and its modifications. Jahangiri M, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):989–92; discussion 992–3

Hemodynamic effect of progressive right atrial dilatation in atriopulmonary connections. Lardo AC, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):2–8

Alveolar–arterial gas tension differences during progressive exercise in patients after the Fontan operation. Ohuchi H, et al. **Jpn Circ J** 1997 May;61(5):402–12

Late endocardial pacing lead body migration compromising Fontan physiology. O'Connor BK, et al. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 1):2147–9

Late–onset pulmonary venous pathway obstruction after Fontan operation: presentation masquerading as intra–atrial baffle leakage. Berman W Jr, et al. **Pediatr Cardiol** 1997 Jan–Feb;18(1):49–51

Novel approach to transvenous pacemaker implantation in a post–fontan adolescent. Johnsrude CL, et al. **Pediatr Cardiol** 1997 Jul–Aug;18(4):309–11

Exercise performance following repair of hypoplastic left heart syndrome: A comparison with other types of Fontan patients. Joshi VM, et al. **Pediatr Cardiol** 1997 Sep–Oct; 18(5):357–60

Stroke and the Fontan procedure [letter] Rosti L, et al. **Pediatr Cardiol** 1997 Mar–Apr;18(2):159

Unilateral Fontan operation for tricuspid atresia. Subbareddy K, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(2):97–9

Regression of post–Fontan protein–losing enteropathy. After surgical correction of hemodynamic faults other than high right atrial pressure. Ventriglia F, et al. **Tex Heart Inst J** 1996;23(3):233–5

Transcatheter embolization of a pulmonary collateral vessel in a child with tricuspid atresia: case report. Karaaslan S, et al. **Turk J Pediatr** 1996 Jan–Mar;38(1):107–11

[Pathogenesis of venous congestion symptoms after Fontan operation] Buchhorn R, et al. **Z Kardiol** 1997 Jan; 86(1):26–34 (Eng. Abstr.) **(Ger)**

[Anatomic and functional hypoplastic left heart syndrome and its surgical Norwood and Fontan treatment] Thies WR, et al. **Z Kardiol** 1997 Jul;86(7):505–13 (Eng. Abstr.) **(Ger)**

[Late arrhythmias after the Fontan operation] Nakanishi K, et al. **Kyobu Geka** 1996 Sep;49(10):804–8 (Eng. Abstr.) **(Jpn)**

[Thoracic epidural anesthesia for cholecystectomy in a patient after Fontan procedure] Arai M, et al. **Masui** 1997 Feb;46(2):271–5 (Eng. Abstr.) **(Jpn)**

[A case of total cavopulmonary connection with preceding tricuspid valve closure in pulmonary atresia and intact ventricular septum, right ventricular–coronary artery fistulae, and coronary artery stenoses] Cho Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1929–34 (Eng. Abstr.) **(Jpn)**

[Re–do Fontan operation—a case report] Toda R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):986–9 (Eng. Abstr.) **(Jpn)**

[Modified Fontan procedure on 106 cases: indication and surgical results] Imai Y, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):133–7 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Transcatheter fenestration dilation and/or creation in postoperative Fontan patients. Kreutzer J, et al. **Am J Cardiol** 1997 Jan 15;79(2):228–32

Hepatic venous malformation after modified Fontan procedure with partial hepatic vein exclusion. Schneider DJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):1177–9

Pulmonary AV malformations after superior cavopulmonary

connection: resolution after inclusion of hepatic veins in the pulmonary circulation [see comments] Shah MJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):960–3. Comment in: Ann Thorac Surg 1997 Apr;63(4):930–2.

Management of azygos vein "steal" following hemi–Fontan by transcatheter coil embolization. Vance MS, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):403–6 (7 ref.)

Pharmacological control of pulmonary blood flow with inhaled nitric oxide after the fenestrated Fontan operation. Goldman AP, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II44–8

Late surgical fenestration for complications after the Fontan operation. Rychik J, et al. **Circulation** 1997 Jul 1;96(1):33–6

Negative–pressure ventilation improves cardiac output after right heart surgery. Shekerdemian LS, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II49–55

Iatrogenic atrioventricular bypass tract following a Fontan operation for tricuspid atresia. Rosenthal E, et al. **Heart** 1997 Mar;77(3):283–5

Protein–losing enteropathy secondary to Fontan procedure resolved after cardiac transplantation. Sierra C, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):229–30

Protein–losing enteropathy after the modified fontan operation: oral prednisone treatment with biopsy and laboratory proved improvement. Zellers TM, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):115–7

CONTRAINDICATIONS

A congenitally "poor" pulmonary artery is a major reason for exclusion from Fontan operation. Nakazawa M, et al. **Heart Vessels** 1996;11(4):197–202

INSTRUMENTATION

Should Fontan fenestrations be closed with coils? [editorial; comment] Moore JW. **Circulation** 1996 Aug 1;94(3):247–8 . Comment on: Circulation 1996 Aug 1;94(3):249–52.

Transcatheter coil occlusion of surgical fenestration after Fontan operation [see comments] Sommer RJ, et al. **Circulation** 1996 Aug 1;94(3):249–52. Comment in: Circulation 1996 Aug 1;94(3):247–8.

METHODS

Extracardiac Fontan operation without cardiopulmonary bypass. Burke RP, et al. **Ann Thorac Surg** 1997 Apr; 63(4):1175–7

Extracardiac total cavopulmonary connection without cardiopulmonary bypass [letter] al–Ebrahim KE, et al. **Ann Thorac Surg** 1997 Jul;64(1):285

Intermediate results of the extracardiac Fontan procedure. Laschinger JC, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1261–7; discussion 1266–7

Revision of previous Fontan connections to extracardiac or intraatrial conduit cavopulmonary anastomosis. McElhinney DB, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1276–82; discussion 1283

Hepatic venous malformation after modified Fontan procedure with partial hepatic vein exclusion. Schneider DJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):1177–9

Developments in surgical palliation of univentricular physiology [letter] van Son JA, et al. **Ann Thorac Surg** 1997 Jan;63(1):301–3

Should Fontan fenestrations be closed with coils? [editorial; comment] Moore JW. **Circulation** 1996 Aug 1;94(3):247–8 . Comment on: Circulation 1996 Aug 1;94(3):249–52.

Transcatheter coil occlusion of surgical fenestration after Fontan operation [see comments] Sommer RJ, et al. **Circulation** 1996 Aug 1;94(3):249–52. Comment in: Circulation 1996 Aug 1;94(3):247–8.

Management of the univentricular connection: are we improving? Cochrane AD, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):107–15

Comparative assessment of Fontan operation in modifications of atriopulmonary and total cavopulmonary anastomoses. Podzolkov VP, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):458–65

Total cavopulmonary direct anastomosis [letter; comment] Di Carlo DC, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):808–9. Comment on: J Thorac Cardiovasc Surg 1995 Dec;110(6):1766–8.

Modified Fontan procedure in ninety–nine cases of atrioventricular valve regurgitation. Imai Y, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):262–8; discussion 269

Anatomically based ablation of atrial flutter in an acute canine model of the modified Fontan operation. Rodefeld MD, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):898–907

Fenestrated fontan procedure: evolution of technique and occurrence of paradoxical embolism. Quinones JA, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):218–21

Lung perfusion patterns after bidirectional cavopulmonary anastomosis (Hemi–Fontan procedure). Seliem MA, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):191–6

Right ventricular bypass for palliation of cardiac sarcoma. Calderón M, et al. **Tex Heart Inst J** 1996;23(2):178–9

[Total cavopulmonary anastomosis for definitive palliation of complex univentricular cardiovascular systems—potential preoperative risk factors] Kaulitz R, et al. **Z Kardiol** 1997 Jan;86(1):20–5 (Eng. Abstr.) **(Ger)**

[A case report of a fenestrated Fontan operation after bivalvation of the common atrioventricular valve in right isomerism] Noma M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):88–91 (Eng. Abstr.) **(Jpn)**

FOOD

see related
DIET
PLANTS, EDIBLE

Gastric emptying of a light hospital breakfast. A study using real time ultrasonography [see comments] Søreide E, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):549–53. Comment in: Acta Anaesthesiol Scand 1996 May;40(5):507–8.

Lansoprazole versus omeprazole: influence on meal–stimulated gastric acid secretion. Dammann HG, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):359–64

Phytonutrition, phytotherapy, and phytopharmacology. Bland JS. **Altern Ther Health Med** 1996 Nov;2(6):73–6 (24 ref.)

Food and nutrition: attitudes, beliefs, and knowledge in the United Kingdom. Buttriss JL. **Am J Clin Nutr** 1997 Jun; 65(6 Suppl):1985S–1995S

Method for assessing food intakes in terms of servings based on food guidance. Cleveland LE, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1254S–1263S

Effect of nationality on dietary pattern and meal behavior in China. Ge K, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1290S–1294S

Food and nutrition surveillance: an international overview. Jerome NW, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1198S–1202S (11 ref.)

Characterizing food intake patterns of American adults. Krebs–Smith SM, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1264S–1268S

Dietary assessment using a picture–sort approach. Kumanyika SK, et al. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1123S–1129S (26 ref.)

Cross–cultural variations and changes in food–group intake among elderly women in Europe: results from the Survey in Europe on Nutrition and the Elderly a Concerted Action (SENECA). Schroll K, et al. **Am J Clin Nutr** 1997 Apr; 65(4 Suppl):1282S–1289S

INFOODS: the international network of food data systems. Scrimshaw NS. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1190S–1193S (17 ref.)

Role of food in the stimulation of cytokine production. Solis–Pereyra B, et al. **Am J Clin Nutr** 1997 Aug; 66(2):521S–525S

Food provision in dietary intervention studies [editorial; comment] Wing RR. **Am J Clin Nutr** 1997 Aug;66(2):421–2 . Comment on: Am J Clin Nutr 1997 Aug;66(2):373–85.

Acute esophageal food impaction treated by water–soluble contrast esophagography with maneuvers. Ko SF, et al. **Am J Emerg Med** 1996 Oct;14(6):604–5

Food and phytochemicals, magic bullets and measurement error: a commentary [comment] Potter JD. **Am J Epidemiol** 1996 Dec 1;144(11):1026–7. Comment on: Am J Epidemiol 1995 Dec 1;144(11):1005–14. Comment on: Am J Epidemiol 1996 Dec 1;144(11):1015–25.

Enzymic method for the spectrophotometric determination of benzoic acid in soy sauce and pickles. Hamano T, et al. **Analyst** 1997 Mar;122(3):259–62

Age–related response of the small intestine to severe starvation and refeeding in rats. Ortega MA, et al. **Ann Nutr Metab** 1996;40(6):351–8

Comparison of the effects of two weeks' intervention with different meal frequencies on glucose metabolism, insulin sensitivity and lipid levels in non–insulin–dependent diabetic patients. Thomsen C, et al. **Ann Nutr Metab** 1997; 41(3):173–80

Nectar from a wax plant, Hoya sp., as a carbohydrate source for Lutzomyia longipalpis (Diptera: Psychodidae). Petts SL, et al. **Ann Trop Med Parasitol** 1997 Jun;91(4):443–6

Effects of food on drug absorption. Welling PG. **Annu Rev Nutr** 1996;16:383–415 (222 ref.)

Time–restricted feeding schedules modify temporal variation of gentamicin experimental nephrotoxicity. Beauchamp D, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1468–74

The epidemic of dieting women: the need for a sociological approach to food and nutrition. Germov J, et al. **Appetite** 1996 Oct;27(2):97–108 (60 ref.)

Acute effects on mood and cognitive performance of breakfasts differing in fat and carbohydrate content. Lloyd HM, et al. **Appetite** 1996 Oct;27(2):151–64

Reinforcing value of food in obese and non–obese women. Saelens BE, et al. **Appetite** 1996 Aug;27(1):41–50

Mechanical properties of foods responsible for resisting food breakdown in the human mouth. Agrawal KR, et al. **Arch Oral Biol** 1997 Jan;42(1):1–9

Refeeding hypophosphatemia in critically ill patients in an intensive care unit. A prospective study. Marik PE, et al. **Arch Surg** 1996 Oct;131(10):1043–7

Antioxidants in food and chronic degenerative diseases. Candlish JK, et al. **Biomed Environ Sci** 1996 Sep; 9(2–3):117–23

The effect of food on the pharmacokinetics of multiple–dose terbinafine in young and elderly healthy subjects. Nedelman J, et al. **Biopharm Drug Dispos** 1997 Mar; 18(2):127–38

'Pavlovian' food effect on the enterohepatic recirculation of piroxicam. Polli JE, et al. **Biopharm Drug Dispos** 1996 Oct; 17(7):635–41

Effects of food and antacid on the pharmacokinetics of single doses of mycophenolate mofetil in rheumatoid arthritis patients. Bullingham R, et al. **Br J Clin Pharmacol** 1996 Jun;41(6):513–6

Regional cerebral blood flow during food exposure in obese and normal–weight women. Karhunen LJ, et al. **Brain** 1997 Sep;120 (Pt 9):1675–84

The effects of food and divided dosing on the bioavailability of oral vinorelbine. Rowinsky EK, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):9–16

Risk factors for lower urinary tract cancer: the role of total fluid consumption, nitrites and nitrosamines, and selected foods. Wilkens LR, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):161–6

Food and Cancer Prevention II: summary of the meeting. Potter JD. **Cancer Lett** 1997 Mar 19;114(1–2):337–8

Product quality and food processing: how to quantify the healthiness of a product. van Boekel MA, et al. **Cancer Lett** 1997 Mar 19;114(1–2):65–9

Integration of methods for determining the acido/cariogenic potential of foods: a comparison of several different methods. Curzon ME, et al. **Caries Res** 1996;30(2):126–31

Specificity of salivary thiocyanate as marker of cigarette smoking is not affected by alimentary sources. Galanti LM. **Clin Chem** 1997 Jan;43(1):184–5

Gastric tubes, meals, acid, and analysis: rise and decline. Rosenfeld L. **Clin Chem** 1997 May;43(5):837–42

Effect of gamma–interferon on binding of gliadin and other food peptides to the human intestinal cell line HT–29. Bendix U, et al. **Clin Chim Acta** 1997 May 6;261(1):69–80

The effect of food intake on the pharmacokinetics of sustained–release morphine sulfate capsules. Kaiko RF. **Clin Ther** 1997 Mar–Apr;19(2):296–303

Science and food during the Great War: Britain and Germany. Teich M. **Clio Med** 1995;32:213–34

Monoglycerides in membrane systems. Boyle E, et al. **Crit Rev Food Sci Nutr** 1996 Dec;36(8):785–805 (69 ref.)

Food allergens. Bush RK, et al. **Crit Rev Food Sci Nutr** 1996; 36 Suppl:S119–63 (349 ref.)

Ultrasonic characterization of foods and drinks: principles, methods, and applications. McClements DJ. **Crit Rev Food Sci Nutr** 1997 Feb;37(1):1–46 (180 ref.)

Rice bran proteins: properties and food uses. Prakash J. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):537–52 (113 ref.)

Principles and characteristics of food allergens. Taylor SL, et al. **Crit Rev Food Sci Nutr** 1996;36 Suppl:S91–118 (179 ref.)

Alkaline–fermented foods: a review with emphasis on pidan fermentation. Wang J, et al. **Crit Rev Microbiol** 1996; 22(2):101–38 (81 ref.)

Pancreatic polypeptide response to food and autonomic neuropathy in diabetics [letter] Inui A, et al. **Diabetes Care** 1996 Jul;19(7):778–9

Evaluation of a snack bar containing uncooked cornstarch in subjects with diabetes. Kaufman FR, et al. **Diabetes Res Clin Pract** 1997 Feb;35(1):27–33

Effects of dopaminergic drugs on food– and cocaine–maintained responding. IV: Continuous cocaine infusions. Glowa JR, et al. **Drug Alcohol Depend** 1997 Apr 14;45(1–2):71–9

Exploration of pharyngeal swallowing by audiosignal recording. Boiron M, et al. **Dysphagia** 1997 Spring; 12(2):86–92

A comparison of consistency and taste of five commercial thickeners. Pelletier CA. **Dysphagia** 1997 Spring;12(2):74–8

Oral sensory discrimination of fluid viscosity. Smith CH, et al. **Dysphagia** 1997 Spring;12(2):68–73

Restoration of fluid balance after exercise–induced dehydration: effects of food and fluid intake. Maughan RJ, et al. **Eur J Appl Physiol** 1996;73(3–4):317–25

A critique of the effects of snacking on body weight status. Drummond S, et al. **Eur J Clin Nutr** 1996 Dec; 50(12):779–83 (79 ref.)

Subjective and objective indices of the satiating effect of foods. Can people predict how filling a food will be? Green SM, et al. **Eur J Clin Nutr** 1996 Dec;50(12):798–806

Interrelationships among postprandial satiety, glucose and insulin responses and changes in subsequent food intake. Holt SH, et al. **Eur J Clin Nutr** 1996 Dec;50(12):788–97

Food and nutrient intake outside the home of 629 French people of fifteen years and over. Le François P, et al. **Eur J Clin Nutr** 1996 Dec;50(12):826–31

Energy intake adaptation of food intake to extreme energy densities of food by obese and non–obese women. Westerterp–Plantenga MS, et al. **Eur J Clin Nutr** 1996 Jun; 50(6):401–7

Effect of food on the bioavailability of oxybutynin from a controlled release tablet. Lukkari E, et al. **Eur J Clin Pharmacol** 1996;50(3):221–3

The effect of food on the relative bioavailability of deflazacort. Rao N, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jul–Sep;21(3):241–5

The influence of food on the absorption and metabolism of drugs: an update [see comments] Williams L, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jul–Sep; 21(3):201–11 (82 ref.). Comment in: Eur J Drug Metab Pharmacokinet 1997 Jan–Mar;22(1):85–6.

Effects of dietary oil contamination and absence of prophylaxis on orthodontic bonding. Tan LS, et al. **Eur J Orthod** 1997 Apr;19(2):109–14

The effects of food consistency on maxillary growth in rats. Yamamoto S. **Eur J Orthod** 1996 Dec;18(6):601–15

Harmonization of strategies for utilizing available data on a pan-European basis. Chaisson CF, et al. **Food Addit Contam** 1996 May-Jun;13(4):461-5

Extraction of an esophageal food impaction with a Roth retrieval net. Neustater B, et al. **Gastrointest Endosc** 1996 Jan;43(1):66-7

The effect of food intake from two weeks of age to sexual maturity on plasma growth hormone, insulin-like growth factor-I, insulin-like growth factor-binding proteins, and thyroid hormones in female broiler breeder chickens. Bruggeman V, et al. **Gen Comp Endocrinol** 1997 Aug; 107(2):212-20

Frequency and risk factors of recurrent pain during refeeding in patients with acute pancreatitis: a multivariate multicentre prospective study of 116 patients [see comments] Lévy P, et al. **Gut** 1997 Feb;40(2):262-6. Comment in: ACP J Club 1997 Sep-Oct;127(2):51.

Regional expression of intestinal genes for nutrient absorption. Shaw-Smith CJ, et al. **Gut** 1997 Jan;40(1):5-8

Food groups and risk of colorectal cancer in Italy. Franceschi S, et al. **Int J Cancer** 1997 Jul 3;72(1):56-61

Early postoperative feeding after elective colorectal surgery is not a benefit unique to laparoscopy-assisted procedures [letter; comment] Parker MC. **Int J Colorectal Dis** 1997; 12(1):51-2. Comment on: Int J Colorectal Dis 1996;11(5):246-9.

Impaired color naming of food and body shape words: weight phobia or distinct affective state? Green MW, et al. **Int J Eat Disord** 1997 Jan;21(1):77-82

Fermentation--a traditional anti-diarrhoeal practice lost? The use of fermented foods in urban and rural Kenya. Watson FE, et al. **Int J Food Sci Nutr** 1996 Mar;47(2):171-9

Net carbon flux across subcutaneous adipose tissue after a standard meal in normal-weight and insulin-resistant obese subjects. Frayn KN, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):795-800

Effect of food palatability on early (cephalic) phase of diet-induced thermogenesis in nonobese and obese man. Hashkes PJ, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):608-13

Effect of chronic intracerebroventricular infusion of insulin on brown adipose tissue activity in fed and fasted rats. Müller C, et al. **Int J Obes Relat Metab Disord** 1997 Jul; 21(7):562-6

The alginate reduce the postprandial glycaemic response by forming a gel with dietary calcium in the stomach of the rat. Ohta A, et al. **Int J Vitam Nutr Res** 1997;67(1):55-61

Contributions of food groups to estimated intakes of nutritional elements: results from the FDA total diet studies, 1982-1991 [published erratum appears in Int J Vitam Nutr Res 1997;67(3):207] Pennington JA, et al. **Int J Vitam Nutr Res** 1996;66(4):342-9

Tray service generates more food waste in dining areas of a continuing-care retirement community. Hackes BL, et al. **J Am Diet Assoc** 1997 Aug;97(8):879-82; quiz 883-4

The value of antioxidant supplements vs their natural counterparts [letter; comment] Herbert V. **J Am Diet Assoc** 1997 Apr;97(4):375-6. Comment on: J Am Diet Assoc 1996 Jul;96(7):693-702; quiz 703-4.

Messages for the masses: food and nutrition issues on television [news] MacLaren T. **J Am Diet Assoc** 1997 Jul; 97(7):733-4

Incorporating fat-modified foods into a food frequency questionnaire improves classification of fat intake. Vandenlangenberg GM, et al. **J Am Diet Assoc** 1997 Aug; 97(8):860-6

Multimethod training increases portion-size estimation accuracy. Weber JL, et al. **J Am Diet Assoc** 1997 Feb; 97(2):176-9

Food as a circadian Zeitgeber for house sparrows: the effect of different food access durations. Hau M, et al. **J Biol Rhythms** 1996 Sep;11(3):196-207

Chromatographic analysis of water and wine samples for phenolic compounds released from food-contact epoxy resins. Lambert C, et al. **J Chromatogr Sci** 1997 Feb; 35(2):57-62

Fasting and postprandial lipid abnormalities in hypopituitary women receiving conventional replacement therapy. al-Shoumer KA, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2653-9

Effect of fasting, refeeding, and dietary fat restriction on plasma leptin levels. Weigle DS, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):561-5

Pharmacokinetics of retinoids in women after meal consumption or vitamin A supplementation. Chen C, et al. **J Clin Pharmacol** 1996 Sep;36(9):799-808

Effects of food texture and sample thickness on mandibular movement and hardness assessment during biting in man. Peyron MA, et al. **J Dent Res** 1997 Mar;76(3):789-95

The effect of food consistency upon jaw movement in the macaque: a cineradiographic study. Thexton A, et al. **J Dent Res** 1997 Jan;76(1):552-60

Thyroid hormones homeostasis in rats refed after short-term and prolonged fasting. Kmiec Z, et al. **J Endocrinol Invest** 1996 May;19(5):304-11

Repeated fasting and refeeding with 20:5, n-3 eicosapentaenoic acid (EPA): a novel approach for rapid fatty acid exchange and its effect on blood pressure, plasma lipids and hemostasis. Yosefy C, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S135-9

Determinants of postprandial lipemia in men with coronary artery disease and low levels of HDL cholesterol. Syvänne M, et al. **J Lipid Res** 1997 Jul;38(7):1463-72

Food embolus. Reynolds P, et al. **J Neurol Sci** 1997 Aug; 149(2):185-90

T-maze and food reinforcement: an inexpensive drug discrimination procedure. Colombo G, et al. **J Neurosci Methods** 1996 Aug;67(2):83-7

Effects of intermittent food restriction and refeeding on energy efficiency and body fat deposition in sedentary and exercised rats. Lim K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):449-68

Effects of refeeding diets on emeriamine-induced fatty liver in fasting rats. Maeda H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Oct;42(5):469-78

Antioxidative mechanism and apoptosis induction by 3-hydroxyanthranilic acid, an antioxidant in Indonesian food Tempeh, in the human hepatoma-derived cell line, HuH-7. Matsuo M, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr;43(2):249-59

The effects of bolus size and chewing rate on masticatory performance with artificial test foods. Buschang PH, et al. **J Oral Rehabil** 1997 Jul;24(7):522-6

Observation of bolus position with standardized test foods and fluoroscopic technique. Shiau YY, et al. **J Oral Rehabil** 1996 Sep;23(9):607-14

Melatonin concentrations in serum and tissues of porcine gastrointestinal tract and their relationship to the intake and passage of food. Bubenik GA, et al. **J Pineal Res** 1996 Nov;21(4):251-6

Regulation of hepatic insulin receptors by pancreatic polypeptide in fasting and feeding. Seymour NE, et al. **J Surg Res** 1996 Sep;65(1):1-4

An analytic probability density for particle size in human mastication. Baragar FA, et al. **J Theor Biol** 1996 Jul 21; 181(2):169-78

Creutzfeldt-Jakob disease and eating squirrel brains [letter] Berger JR, et al. **Lancet** 1997 Aug 30;350(9078):642

Nutrition. But is it food? Katan MB, et al. **Lancet** 1996 Dec 21-28;348 Suppl 2:sII15 (5 ref.)

Magnetic resonance imaging (MRI) of a cookie in comparison with time-lapse photographic analysis (TLPA) during baking process. Hong SW, et al. **Magn Reson Imaging** 1996; 14(7-8):923-7

NMR applications in complex food systems. Yan ZY, et al. **Magn Reson Imaging** 1996;14(7-8):979-81

Minimal model of food absorption in the gut. Worthington DR. **Med Inf (Lond)** 1997 Jan-Mar;22(1):35-45

Mercury in the food web: accumulation and transfer mechanisms. Boudou A, et al. **Met Ions Biol Syst** 1997; 34:289-319 (95 ref.)

Great Lakes fish health issues [letter] Soderstrom RM. **Mich Med** 1997 Apr;96(4):4

How can components of common foods affect cancer risk? Senior K. **Mol Med Today** 1997 Mar;3(3):103-7

Genetically enhanced food for thought. Golub ES. **Nat Biotechnol** 1997 Feb;15(2):112

Indian restaurants in Glasgow [news] Kohli HS. **Natl Med J India** 1997 Jan-Feb;10(1):37-8

US attacks EU gene-food labelling move [news] **Nature** 1997 Jun 26;387(6636):833

Distrust in genetically altered foods [editorial] [see comments] **Nature** 1996 Oct 17;383(6601):559. Comment in: Nature 1996 Nov 28;384(6607):304. Comment in: Nature 1997 Jan 23;385(6614):290.

Freedom of choice [letter] Berry C. **Nature** 1997 Feb 13; 385(6617):574

UK seeks to appease food safety critics [news] Butler D. **Nature** 1997 Feb 6;385(6616):474

Brussels reshapes science panels after BSE criticism [news] Butler D. **Nature** 1997 Jun 19;387(6635):749

Interactions of rabbit neocortical neurons during natural food motivation. Pavlova IV. **Neurosci Behav Physiol** 1997 Mar-Apr;27(2):124-30

Effects of carotenoid-rich food extracts on the development of preneoplastic lesions in rat liver and on in vivo and in vitro antioxidant status. He Y, et al. **Nutr Cancer** 1997; 27(3):238-44

Role of immediate postoperative feeding on colonic anastomoses resistance. An experimental study in a rat model. García-Olmo D, et al. **Nutr Hosp** 1996 Sep-Oct; 11(5):279-85

Proceedings of the 1st International Conference on East-West Perspectives on Functional Foods. Singapore, September 26-29, 1995. **Nutr Rev** 1996 Nov;54(11 Pt 2):S1-202

Center for Food Safety and Applied Nutrition. **Nutr Rev** 1997 Aug;55(8):315

Research and development on functional foods in Malaysia. Ahmad S. **Nutr Rev** 1996 Nov;54(11 Pt 2):S169-71 (13 ref.)

Functional properties of edible mushrooms. Chang R. **Nutr Rev** 1996 Nov;54(11 Pt 2):S91-3 (22 ref.)

What scientific data are necessary? Clydesdale FM. **Nutr Rev** 1996 Nov;54(11 Pt 2):S195-8 (7 ref.)

Functional food in China. Dai Y, et al. **Nutr Rev** 1996 Nov; 54(11 Pt 2):S21-3 (0 ref.)

Functional foods in North America. Glinsmann WH. **Nutr Rev** 1996 Nov;54(11 Pt 2):S33-7 (10 ref.)

Functional foods: the western perspective. Hasler CM. **Nutr Rev** 1996 Nov;54(11 Pt 2):S6-10 (49 ref.)

Functional foods: approaches to definition and substantiation. Head RJ, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S17-20 (13 ref.)

Functional foods: the western consumer viewpoint. Hilliam M. **Nutr Rev** 1996 Nov;54(11 Pt 2):S189-94 (6 ref.)

Legal aspects of functional foods: the situation in China. Kan X. **Nutr Rev** 1996 Nov;54(11 Pt 2):S162-6 (16 ref.)

Beneficial effects of tempeh in disease prevention and treatment. Karyadi D, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S94-8 (19 ref.)

The Eastern consumer viewpoint: the experience in Japan. Kojima K. **Nutr Rev** 1996 Nov;54(11 Pt 2):S186-8 (0 ref.)

Indian functional foods: role in prevention of cancer. Krishnaswamy K. **Nutr Rev** 1996 Nov;54(11 Pt 2):S127-31 (42 ref.)

Women, food, and mood. Kurzer MS. **Nutr Rev** 1997 Jul; 55(7):268-76 (96 ref.)

An approach to functional food: cancer preventive potential of vegetables and fruits and their active constituents. Ohigashi H, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S24-8 (26 ref.)

Functional foods--the future: how to regulate these foods. Pascal G. **Nutr Rev** 1996 Nov;54(11 Pt 2):S199-201 (8 ref.)

Functional foods in the European Union. Pascal G. **Nutr Rev** 1996 Nov;54(11 Pt 2):S29-32 (13 ref.)

Health effects of salicylates in foods and drugs. Perry CA, et al. **Nutr Rev** 1996 Aug;54(8):225-40 (47 ref.)

The prospect for functional foods in Thailand. Pothisiri P, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S172-3 (3 ref.)

Regulatory and legal aspects of functional foods: the Australian perspective. Preston C, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S156-61 (5 ref.)

Functional foods--shades of gray: an industry perspective. Richardson DP. **Nutr Rev** 1996 Nov;54(11 Pt 2):S174-85 (42 ref.)

Functional effects of food components and the gastrointestinal system: chicory fructooligosaccharides. Roberfroid MB. **Nutr Rev** 1996 Nov;54(11 Pt 2):S38-42 (20 ref.)

The eastern perspective on functional foods based on traditional Chinese medicine. Weng W, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S11-6 (11 ref.)

Severe hypophosphatemia related to refeeding [see comments] Crook MA, et al. **Nutrition** 1996 Jul-Aug; 12(7-8):538-9. Comment in: Nutrition 1996 Jul-Aug;12(7-8):540-1.

Gut rest versus early feeding after elective abdominal surgery [editorial] Eagon JC, et al. **Nutrition** 1997 Feb;13(2):155-6

Cooked food mutagens and breast cancer [editorial] Gaubatz JW. **Nutrition** 1996 Jun;12(6):449-50

A fall in blood glucose level precedes meal onset in free-feeding rats. 1980 [classical article] [see comments] Louis-Sylvestre J, et al. **Obes Res** 1996 Sep;4(5):497-500 . Comment in: Obes Res 1996 Sep;4(5):489-92.

An automatic food delivery system for operant training of mice. van den Bergen H, et al. **Physiol Behav** 1997 Jun; 61(6):879-82

A message from Preventive Medicine and your physician. **Prev Med** 1997 May-Jun;26(3):285-6

Metabolism of the food carcinogen 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) in the rat and other rodents. Alexander J, et al. **Princess Takamatsu Symp** 1995;23:113-22 (35 ref.)

Heterocyclic amine mutagenicity/carcinogenicity: influence of repair, metabolism, and structure. Felton JS, et al. **Princess Takamatsu Symp** 1995;23:50-8 (25 ref.)

Induction of cytochrome P4501A isozymes by heterocyclic amines and other food-derived compounds. Kleman MI, et al. **Princess Takamatsu Symp** 1995;23:163-71 (37 ref.)

Activation and effects of the food-derived heterocyclic amines in extrahepatic tissues. Overvik E, et al. **Princess Takamatsu Symp** 1995;23:123-33 (50 ref.)

History, present and future, of heterocyclic amines, cooked food mutagens. Sugimura T. **Princess Takamatsu Symp** 1995;23:214-31 (88 ref.)

Different techniques of food preparation and cooking: implication for dietary surveys. Bergström IL. **Proc Nutr Soc** 1996 Jul;55(2):671-8 (19 ref.)

Regulation of the plasma non-esterified fatty acid concentration in the postprandial state. Frayn KN, et al. **Proc Nutr Soc** 1997 Jul;56(2):713-21 (46 ref.)

Postprandial lipid metabolism: an overview. Havel RJ. **Proc Nutr Soc** 1997 Jul;56(2):659-66 (50 ref.)

Postprandial lipid metabolism in relation to coronary heart disease. Karpe F. **Proc Nutr Soc** 1997 Jul;56(2):671-8 (47 ref.)

Postprandial lipid metabolism and thrombosis. Miller GJ. **Proc Nutr Soc** 1997 Jul;56(2):739-44 (38 ref.)

Effects of drugs on postprandial lipoprotein metabolism. Packard CJ. **Proc Nutr Soc** 1997 Jul;56(2):745-51 (19 ref.)

Influences on adolescent food choice. Shepherd R, et al. **Proc Nutr Soc** 1996 Mar;55(1B):345-57 (87 ref.)

The acylation-stimulating protein pathway and regulation of postprandial metabolism. Sniderman AD, et al. **Proc Nutr Soc** 1997 Jul;56(2):703-12 (37 ref.)

Women and nurture in industrial societies. Van Esterik P. **Proc Nutr Soc** 1997 Mar;56(1B):335-43

Postprandial lipid metabolism: effects of dietary fatty acids. Williams CM. **Proc Nutr Soc** 1997 Jul;56(2):679-92 (53 ref.)

Effects of drugs on food- and cocaine-maintained responding, III: Dopaminergic antagonists. Glowa JR, et al. **Psychopharmacology (Berl)** 1996 Dec;128(4):351-8

Differences in salivation to repeated food cues in obese and nonobese women. Epstein LH, et al. **Psychosom Med** 1996 Mar-Apr;58(2):160-4

Methodology to estimate the amount and particle size of soil

ingested by children: implications for exposure assessment at waste sites [published erratum appears in Regul Toxicol Pharmacol 1997 Feb;25(1):87] Calabrese EJ, et al. **Regul Toxicol Pharmacol** 1996 Dec;24(3):264–8

Nutritional and metabolic aspects of postprandial lipemia. Lairon D. **Reprod Nutr Dev** 1996;36(4):345–55 (46 ref.)

Thermic effect of food and sympathetic nervous system activity in humans. Tappy L. **Reprod Nutr Dev** 1996; 36(4):391–7 (39 ref.)

Effects of L–carnitine on the hypoxic atria from fed and fasted rats. Varela A, et al. **Rev Esp Fisiol** 1995 Dec; 51(4):201–6

Shift in sodium chloride sources in past 10 years of salt reduction campaign in Japan. Shimbo S, et al. **Tohoku J Exp Med** 1996 Nov;180(3):249–59

Stress, hormonal changes, alcohol, food constituents and drugs: factors that advance the incidence of tobacco smoke–related cancer? Maser E. **Trends Pharmacol Sci** 1997 Aug;18(8):270–5 (95 ref.)

A standardised breakfast tolerance test in pregnancy: comparison with the 75 g oral glucose tolerance test in unselected mothers and in those with impaired glucose tolerance. Roberts RN, et al. **Ulster Med J** 1997 May; 66(1):18–23

The influence of food, beverages and NSAIDs on gastric acid secretion and mucosal integrity. Peterson WL. **Yale J Biol Med** 1996 Jan–Feb;69(1):81–4 (22 ref.)

[Cushing's disease: role of feeding] Bercovici JP, et al. **Presse Med** 1996 Oct 5;25(29):1326–30 (13 ref.) (Eng. Abstr.) **(Fre)**

[A case of postprandial hypotension in an elderly subject] Ruggieri G, et al. **Schweiz Rundsch Med Prax** 1996 Dec 10;85(50):1621–5 (Eng. Abstr.) **(Fre)**

[Responses to different test meal loading in percutaneous electrogastrography in children] Yagi M, et al. **J Smooth Muscle Res** 1995 Dec;31(6):431–3 **(Jpn)**

[Food smell as a problem in trophology] Ugolev DA, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):66–73 (33 ref.) **(Rus)**

[Chemicals in agriculture and problems of ecologically clean and biologically full–value food products] Ladonin VF. **Vopr Pitan** 1996;(4):19–23 (Eng. Abstr.) **(Rus)**

[Food and nutrition knowledge of elementary and high school–age children from Chile's Metropolitan Region] Ivanovic D, et al. **Rev Med Chil** 1996 Sep;124(9):1058–70 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Systemic contact dermatitis caused by ingestion of certain foods in propylene glycol–sensitive patients. Fisher AA. **Am J Contact Dermat** 1996 Dec;7(4):259

Profet, profits, and proof: do nausea and vomiting of early pregnancy protect women from "harmful" vegetables? Brown JE, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):179–81

Overview of bioactive compounds in foods. Sanders TA. **Biochem Soc Trans** 1996 Aug;24(3):771–5 (29 ref.)

Adverse reactions to food constituents: allergy, intolerance, and autoimmunity. Kitts D, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):241–54 (112 ref.)

Survey of gastrointestinal reactions to foods in adults in relation to atopy, presence of mucus in the stools, swelling of joints and arthralgia in patients with gastrointestinal reactions to foods. Bengtsson U, et al. **Clin Exp Allergy** 1996 Dec;26(12):1387–94

Food–associated gastrointestinal disease. James JM, et al. **Curr Opin Pediatr** 1996 Oct;8(5):471–5 (27 ref.)

Carcinogenicity of food mutagens. Sugimura T, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:429–33 (48 ref.)

Exercise–induced anaphylaxis after food contaminant ingestion in double–blinded, placebo–controlled, food–exercise challenge. Fiocchi A, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):424–5

Proliferative responses of lymphocytes to food antigens are useful for detection of allergens in nonimmediate types of food allergy. Kondo N, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):122–6

Foodborne triggers for epileptic attacks [letter] Rose GA. **J R Soc Med** 1997 Jul;90(7):413–4

Specific IgG antibodies as markers of adverse reactions to foods. Marinkovich V. **Monogr Allergy** 1996;32:221–5 (7 ref.)

Specific IgG antibodies as markers of adverse reactions to food. Contra! Wüthrich B. **Monogr Allergy** 1996;32:226–7 (10 ref.)

The safety assurance of functional foods. Huggett AC, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S132–40 (25 ref.)

Research needs for establishing the safety of functional foods. Huggett AC, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S143–8 (29 ref.)

Food challenge procedures in research and in clinical practice. Bahna SL. **Pediatr Allergy Immunol** 1995;6 Suppl 8:49–53 (30 ref.)

Classification of adverse reactions to food. Guarnaccia S, et al. **Pediatr Allergy Immunol** 1995;6 Suppl 8:13–19 (58 ref.)

Adverse reactions to foods: management and prognosis. Kjellman NI. **Pediatr Allergy Immunol** 1995;6 Suppl 8:54–8 (13 ref.)

Labial food challenge in children with food allergy. Rance F, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):41–4

Clinical manifestations of adverse food reactions. Sampson HA. **Pediatr Allergy Immunol** 1995;6 Suppl 8:29–37 (56 ref.)

The effect of some Mexican citric acid snacks on in vitro tooth enamel erosion. Dodds MW, et al. **Pediatr Dent** 1997 Jul–Aug;19(5):339–40

ANALYSIS see FOOD ANALYSIS

CLASSIFICATION

The glycemic index: flogging a dead horse? [see comments] Wolever TM. **Diabetes Care** 1997 Mar;20(3):452–6 (41 ref.) . Comment in: Diabetes Care 1997 Mar;20(3):241–3.

ECONOMICS

Disadvantage, and the cost of food [letter; comment] Mackerras D. **Aust N Z J Public Health** 1997 Apr;21(2):218 . Comment on: Aust N Z J Public Health 1996 Dec;20(6):611–7.

Structural, material and economic influences on the food–purchasing choices of socioeconomic groups [see comments] Turrell G. **Aust N Z J Public Health** 1996 Dec; 20(6):611–7. Comment in: Aust N Z J Public Health 1997 Apr;21(2):218.

Consumption implications of agri–food policies. Traill B, et al. **Proc Nutr Soc** 1996 Jul;55(2):649–59 (14 ref.)

Integration of nutritional data based on household budget surveys in European countries. DAFNE I Group. Data Food Networking. Trichopoulou A, et al. **Proc Nutr Soc** 1996 Jul;55(2):699–704 (8 ref.)

MICROBIOLOGY see FOOD MICROBIOLOGY

PARASITOLOGY see FOOD PARASITOLOGY

POISONING see FOOD POISONING

RADIATION EFFECTS

Influence of the dielectric property on microwave oven heating patterns: application to food materials. Peyre F, et al. **J Microw Power Electromagn Energy** 1997;32(1):3–15

STANDARDS

Advice on healthy food as given by Flemish general practitioners. Govaerts F. **Am J Clin Nutr** 1997 Jun;65(6 Suppl):1951S–1952S (3 ref.)

Impact of the use of reduced–fat foods on nutrient adequacy. Heimbach JT, et al. **Ann N Y Acad Sci** 1997 May 23; 819:108–14 (14 ref.)

Consumers' views on food quality. A qualitative interview study. Holm L, et al. **Appetite** 1996 Aug;27(1):1–14

Functional foods. Farr DR. **Cancer Lett** 1997 Mar 19; 114(1–2):59–63

Position of the American Dietetic Association: food and water safety. **J Am Diet Assoc** 1997 Feb;97(2):184–9 (44 ref.)

Effect of fat replacement on sensory attributes of chocolate chip cookies. Charlton O, et al. **J Am Diet Assoc** 1996 Dec;96(12):1288–90

Taste, temperature, and presentation predict satisfaction with foodservices in a Canadian continuing–care hospital. O'hara PA, et al. **J Am Diet Assoc** 1997 Apr;97(4):401–5

The US Army food safety program. Barrows PL. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2061–3

The safety of foods of animal origin: an overview. Heidelbaugh ND. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):2063–4

Risk assessment and its role in the safety of foods of animal origin. Kindred TP. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):2055–6 (3 ref.)

Are veterinary roles vague in the HACCP era? [letter; comment] Nusbaum SR. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1099–100. Comment on: J Am Vet Med Assoc 1997 Feb 15;210(4):492–5.

HACCP system simplified [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):16

Characteristics of a model state agency program for the safety of foods of animal origin. Rosser WW. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2058–61

Expert systems for the evaluation of data quality for establishing the Recommended Dietary Allowances. Holden JM. **J Nutr** 1996 Sep;126(9 Suppl):2329S–2336S

The end of big government? Miller HI. **Nat Biotechnol** 1997 Feb;15(2):111

Codex Alimentarius. Pothisiri P, et al. **Nutr Rev** 1996 Nov; 54(11 Pt 2):S149–51 (4 ref.)

Food safety: a global perspective. Forsythe RH. **Poult Sci** 1996 Dec;75(12):1448–54

[Helpful chemistry. Professor A. Ruiter's farewell lecture on 7 November 1966] Ruiter A. **Tijdschr Diergeneeskd** 1997 Apr 15;122(8):221–5 **(Dut)**

[Principles of monitoring food products by impedance Bactometer] Khastsaev BD. **Med Tekh** 1996 Sep–Oct; (5):41–3 (8 ref.) (Eng. Abstr.) **(Rus)**

[Multichannel device for monitoring the quality of food products] Khastsaev BD. **Med Tekh** 1996 Nov–Dec; (6):42–4 **(Rus)**

[Monitoring nutrition and the quality of the food products in the social–hygiene monitoring system in the Russian Federation] Beliaev EN. **Vopr Pitan** 1996;(3):3–8 (Eng. Abstr.) **(Rus)**

[Effectiveness of certification] Gordienko L. **Vopr Pitan** 1996; (4):37–41 **(Rus)**

STATISTICS & NUMERICAL DATA

Validation of simplified diet history questionnaire. Takatsuka N, et al. **J Epidemiol** 1997 Mar;7(1):33–41

SUPPLY & DISTRIBUTION see FOOD SUPPLY

TOXICITY

Food and Drug Administration Proposed Guidelines for Neurotoxicological Testing of Food Chemicals. Sobotka TJ, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):825–36

[The mixed mineralization in technique in preparing samples for polarographic determination of toxic elements] Tikhonov MA, et al. **Gig Sanit** 1996 Sep–Oct;(5):48–9 **(Rus)**

FOOD ADDITIVES

see related

PHARMACEUTIC AIDS

The precautionary principle and science–based limits in regulatory toxicology: the human experience, individual protection. Pugh DM. **Arch Toxicol Suppl** 1997;19:147–54 (2 ref.)

Panax ginseng pharmacology: a nitric oxide link? Gillis CN. **Biochem Pharmacol** 1997 Jul 1;54(1):1–8 (50 ref.)

Phloridzin derivatives; food additives/chemopreventative drugs of the future. Ridgway T, et al. **Biochem Soc Trans** 1997 Feb;25(1):109S

An analytical comparison of cobalt cardiomyopathy and idiopathic dilated cardiomyopathy. Centeno JA, et al. **Biol Trace Elem Res** 1996 Oct–Nov;55(1–2):21–30

Novel bioconversions for the production of designer antioxidant and colourant flavonoids using polyphenol oxidases. Ridgway T, et al. **Biotechnol Genet Eng Rev** 1997; 14:165–90 (117 ref.)

Residues of some veterinary drugs in animals and foods. Joint FAO/WHO Expert Committee on Food Additives [published erratum appears in FAO Food Nutr Pap 1997;41(9):141, 127–34] **FAO Food Nutr Pap** 1996; 41(8):1–166

Residues of some veterinary drugs in animals and foods. Monographs prepared by the Forty–Seventh meeting of the Joint FAO/WHO Expert Committee on Food Additives. Rome, 4–13 June 1996. **FAO Food Nutr Pap** 1997;41(9):1–139

Ethyl carbamate levels resulting from azodicarbonamide use in bread. Cañas BJ, et al. **Food Addit Contam** 1997 Jan; 14(1):89–94

The effect of azodicarbonamide concentrations on ethyl carbamate concentrations in bread and toast. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):95–100

The contribution of azodicarbonamide to ethyl carbamate formation in bread and beer. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):101–8

Reactivity of butylated hydroxytoluene. Lambert CR, et al. **Free Radic Biol Med** 1996;21(3):395–400

Additives in medicines [letter] Sanghvi BA. **J Indian Med Assoc** 1996 Jan;94(1):34

Meat tenderizer unclogs enteral feeding tubes [see comments] Abate MP. **Oncol Nurs Forum** 1997 Jan–Feb;24(1):22–3. Comment in: Oncol Nurs Forum 1997 May;24(4):627.

Trends of FDA resource allocations over the past 20 years: expected future resources and workload. Shank FR, et al. **Regul Toxicol Pharmacol** 1996 Dec;24(3):218–23

[Medicated feed with or without A, D, and K additives (news)] **Tijdschr Diergeneeskd** 1996 Sep 15;121(18):524–5 **(Dut)**

[Medicated fodder with or without A, D and K additives (news)] **Tijdschr Diergeneeskd** 1997 May 1;122(9):256–7 **(Dut)**

[Experience in the use of eiconol (a complex of unsaturated fatty acids) in non–insulin–dependent diabetes mellitus] Lazebnik LB, et al. **Klin Med (Mosk)** 1996;74(3):29–33 (Eng. Abstr.) **(Rus)**

[Effects of pectins with different levels of esterification and food additive Medetopect on colon microflora in rats after lead poisoning and lesions by radioactive isotopes] Ivanov AA, et al. **Vopr Pitan** 1997;(2):15–8 (Eng. Abstr.) **(Rus)**

[Experience in using the biologically active additive "miprovit" in the treatment of various metabolic diseases] Popova IuP, et al. **Vopr Pitan** 1997;(1):23–6 (Eng. Abstr.) **(Rus)**

[Clinical and metabolic effects of biological active food additives––phospholipids––in patients with cardiovascular diseases] Samsonov MA, et al. **Vopr Pitan** 1997;(3):35–8 (Eng. Abstr.) **(Rus)**

[Toxicological and hygienic evaluation of a new fodder additive: liquid mash concentrate] Sorokina EIu, et al. **Vopr Pitan** 1997;(2):18–21 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

Could salicylates in food have contributed to the decline in cardiovascular disease mortality? A new hypothesis. Ingster LM, et al. **Am J Public Health** 1997 Sep;87(9):1554–7 (27 ref.)

Estimating intakes of flavouring substances. Cadby P. **Food Addit Contam** 1996 May–Jun;13(4):453–60 (0 ref.)

Estimation of food additive intake: methodology overview.

Gibney MJ, et al. **Food Addit Contam** 1996 May–Jun; 13(4):405–10 (2 ref.)

ILSI Europe Workshop on Food Additive Intake: scientific assessment of the regulatory requirements in Europe 29–30 March 1995, Brussels summary report. Howlett J. **Food Addit Contam** 1996 May–Jun;13(4):385–95

Additive usage levels. Langlais R. **Food Addit Contam** 1996 May–Jun;13(4):443–52 (2 ref.)

The approach adopted in the UK for the estimation of the intake of food additives. Lawrie CA, et al. **Food Addit Contam** 1996 May–Jun;13(4):411–6 (12 ref.)

Possible use of food consumption surveys to estimate exposure to additives. Löwik MR. **Food Addit Contam** 1996 May–Jun;13(4):427–41 (23 ref.)

Estimation of food additive intake. Nordic approach. Penttilä PL. **Food Addit Contam** 1996 May–Jun;13(4):421–6 (15 ref.)

Needs and methods for priority setting for estimating the intake of food additives. Renwick AG. **Food Addit Contam** 1996 May–Jun;13(4):467–75 (11 ref.)

One example of utilization of the 'French approach'. Verger P. **Food Addit Contam** 1996 May–Jun;13(4):417–9

The assessment of food additive usage and consumption: the Commission perspective. Wagstaffe PJ. **Food Addit Contam** 1996 May–Jun;13(4):397–403

Inducing cholesterol precipitation from pig bile with beta–cyclodextrin and cholesterol dietary supplementation. Juste C, et al. **J Hepatol** 1997 Mar;26(3):711–21

[A study of lipid peroxidation in patients with chronic gastritis during administration of a food additive monosodium glutamate] Shirina LI, et al. **Vopr Pitan** 1996; (4):34–6 (Eng. Abstr.) **(Rus)**

[The use of food additives in the manufacture of child food products] Zaitsev AN. **Vopr Pitan** 1996;(5):64–7 **(Rus)**

ADVERSE EFFECTS

Prevalence of lysozyme sensitization in an egg–allergic population. Frémont S, et al. **Allergy** 1997 Feb;52(2):224–8

Toward an understanding of laypeople's notions about additives in food: clear–cut viewpoints about additives decrease with education. Kajanne A, et al. **Appetite** 1996 Dec;27(3):207–22

Dental fluorosis and the use of a high fluoride–containing trona tenderizer (magadi). Mabelya L, et al. **Community Dent Oral Epidemiol** 1997 Apr;25(2):170–6

Topographic mapping of brain electrical activity in children with food–induced attention deficit hyperkinetic disorder. Uhlig T, et al. **Eur J Pediatr** 1997 Jul;156(7):557–61

Mutagenic heterocyclic aromatic amines (HAAs) in 'processed food flavour' samples. Stavric B, et al. **Food Chem Toxicol** 1997 Feb;35(2):185–97

The monosodium glutamate symptom complex: assessment in a double–blind, placebo–controlled, randomized study. Yang WH, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):757–62

"Inactive" ingredients in pharmaceutical products: update (subject review). American Academy of Pediatrics Committee on Drugs. **Pediatrics** 1997 Feb;99(2):268–78 (187 ref.)

The logistical requirements of current FDA review: format of documentation requested. Hattan D. **Regul Toxicol Pharmacol** 1996 Dec;24(3):232–5

[Why is strong licorice not healthy for children] Olsen P, et al. **Ugeskr Laeger** 1996 Dec 9;158(50):7262–3 **(Dan)**

[Gluten as food additive in The Netherlands: cheese forbidden for celiac patients?] Friederich P, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):393–4 (Eng. Abstr.) **(Dut)**

[Gluten as a food additive in the Netherlands: cheese prohibited for colic patients? (letter)] Jasken HH. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):1018 **(Dut)**

[The Chinese restaurant syndrome (letter)] García Ortiz JC, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):518 **(Spa)**

[Prevalence of chronic urticaria following the ingestion of food additives in a third tier hospital] Jiménez–Aranda GS, et al. **Rev Alerg Mex** 1996 Nov–Dec;43(6):152–6 (Eng. Abstr.) **(Spa)**

ANALYSIS

Improving exposure estimates for indirect food additives. Heimbach JT. **Drug Metab Rev** 1995;27(4):563–72 (4 ref.)

Determination of UV stabilizers in PET bottles by high performance–size exclusion chromatography. Monteiro M, et al. **Food Addit Contam** 1996 Jul;13(5):575–86

Detection of added beet sugar in concentrated and single strength fruit juices by deuterium nuclear magnetic resonance (SNIF–NMR method): collaborative study. Martin GG, et al. **J AOAC Int** 1996 Jul–Aug;79(4):917–28

Improved protocol for an oxygen electrode method for determining hydrogen peroxide in foods. Miyamoto F, et al. **J AOAC Int** 1997 May–Jun;80(3):681–7

Rapid liquid chromatographic method to distinguish wild salmon from aquacultured salmon fed synthetic astaxanthin. Turujman SA, et al. **J AOAC Int** 1997 May–Jun; 80(3):622–32

Validated high–performance liquid chromatographic method for quantitation of neohesperidine dihydrochalcone in foodstuffs. Montijano H, et al. **J Chromatogr A** 1997 Jan 10;758(1):163–6

Liquid chromatography and mass spectrometry for the speciation of arsenic animal feed additives. Pergantis SA, et al. **J Chromatogr A** 1997 Mar 14;764(2):211–22

[Importance of the evaluation of food consumption in the risk of exceeding the permissible daily doses for poisons potentially contained in food] Verger P. **Bull Acad Natl Med** 1997 Jan;181(1):127–35; discussion 135–8 (Eng. Abstr.) **(Fre)**

[Studies on the stability of ferrous ion in the feeds added iron lactate during storage] Takeda Y, et al. **Eisei Shikenjo Hokoku** 1994;(112):128–30 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Immunochemical detection of covalently modified protein adducts in livers of rats treated with methyleugenol. Gardner I, et al. **Chem Res Toxicol** 1996 Jun;9(4):713–21

Modelling of additive diffusion in polyolefins. Limm W, et al. **Food Addit Contam** 1996 Nov–Dec;13(8):949–67

A comparison of the physicochemical and immunological properties of the plant gum exudates of Acacia senegal (gum arabic) and Acacia seyal (gum tahla). Menzies AR, et al. **Food Addit Contam** 1996 Nov–Dec;13(8):991–9

An investigation into the temperature dependence of the rheological synergy between xanthan gum and locust bean gum mixtures. Craig DQ, et al. **J Biomater Sci Polym Ed** 1997;8(5):377–89

[Analysis of components in natural food additive "grapefruit seed extract" by HPLC and LC/MS] Sakamoto S, et al. **Eisei Shikenjo Hokoku** 1996;(114):38–42 (Eng. Abstr.) **(Jpn)**

[Comparison of the quality of frozen raspberries depending on the use of various additives] Kmiecik W, et al. **Rocz Panstw Zakl Hig** 1996;47(4):401–10 (Eng. Abstr.) **(Pol)**

METABOLISM

Diacetyl formation by lactic bacteria. Escamilla–Hurtado ML, et al. **Rev Latinoam Microbiol** 1996 Apr–Jun; 38(2):129–37 (48 ref.)

PHARMACOKINETICS

Effect of citric acid clearance on the saturation with respect to hydroxyapatite in saliva. Bashir E, et al. **Caries Res** 1996; 30(3):213–7

PHARMACOLOGY

Potent antioxidant properties of novel apple–derived flavonoids with commercial potential as food additives. Ridgway T, et al. **Biochem Soc Trans** 1996 Aug;24(3):391S

Effects of food intake, soaking time, enzyme and cornflour addition on the digestibility of the diet and performance of broilers given wet food. Yalda AY, et al. **Br Poult Sci** 1996 Sep;37(4):797–807

Are the tastes of polycose and monosodium glutamate unique? Hettinger TP, et al. **Chem Senses** 1996 Jun; 21(3):341–7

A randomized, double–blind placebo controlled cross–over study to investigate the effects of RW94 on the absorption of dietary fat in healthy volunteers. Williams AR, et al. **Curr Med Res Opin** 1996;13(8):457–64

Inhibition of benzo[a]pyrene–induced mouse forestomach neoplasia and reduction of H2O2 concentration in human polymorphonuclear leucocytes by flavour components of Japanese–style fermented soy sauce. Kataoka S, et al. **Food Chem Toxicol** 1997 May;35(5):449–57

Effect of two levels of transgalactosylated oligosaccharide intake in rats associated with human faecal microflora on bacterial glycolytic activity, end–products of fermentation and bacterial steroid transformation. Kikuchi H, et al. **J Appl Bacteriol** 1996 Apr;80(4):439–46

Effect of medicating ingredients and other additives on microflora present on swine and chicken feeds from a Manitoba mill. Mills JT, et al. **Mycopathologia** 1996; 135(1):21–7

In vitro inhibition of CYP2B1 monooxygenase by beta–myrcene and other monoterpenoid compounds. De–Oliveira AC, et al. **Toxicol Lett** 1997 Jun 16;92(1):39–46

[THe characteristics of the action of Khi–Mi on gastric and hepatic secretion] Rymshina MV, et al. **Vopr Pitan** 1996; (1):9–11 (Eng. Abstr.) **(Rus)**

[Natural flavonoids as dietary antioxidants and biologically active additives] Tiukavkina NA, et al. **Vopr Pitan** 1996; (2):33–8 (55 ref.) (Eng. Abstr.) **(Rus)**

STANDARDS

Regulatory and legal aspects of supplementing grazing ruminants. Sellers R. **J Anim Sci** 1997 Feb;75(2):551–5 (5 ref.)

Associations between off–label feed additives and farm size, veterinary consultant use, and animal age. Dewey CE, et al. **Prev Vet Med** 1997 Jul;31(1–2):133–46

Optimizing the review process of food additive and GRAS petitions. Legislative options and opportunities. Finley AM. **Regul Toxicol Pharmacol** 1996 Dec;24(3):240–1

Workshop "Optimizing the Review Process of Food Additive and GRAS Petitions", April 18, 1996. Welcoming remarks. Gori GB. **Regul Toxicol Pharmacol** 1996 Dec;24(3):213

Food contact substances and the need for food safety reform. Heckman JH. **Regul Toxicol Pharmacol** 1996 Dec; 24(3):236–9

Optimizing the review process of food additive and GRAS petitions. Overview of the workshop. Hutt PB. **Regul Toxicol Pharmacol** 1996 Dec;24(3):242–5

Origins and causes of the problem: the regulatory context. Merrill RA. **Regul Toxicol Pharmacol** 1996 Dec;24(3):214–7

Food ingredient review at FDA: recent data and initiatives to improve the process. Rulis AM, et al. **Regul Toxicol Pharmacol** 1996 Dec;24(3):224–31

THERAPEUTIC USE

Protective effect of food additives on aflatoxin–induced mutagenicity and hepatocarcinogenicity. Soni KB, et al. **Cancer Lett** 1997 May 19;115(2):129–33

[Lipid peroxidation and various parameters of mineral metabolism in patients with alimentary obesity during therapy with monosodium glutamate] Popova IuP, et al. **Vopr Pitan** 1997;(3):8–10 (Eng. Abstr.) **(Rus)**

TOXICITY

Filament disassembly and loss of mammary myoepithelial cells after exposure to lambda–carrageenan. Tobacman JK. **Cancer Res** 1997 Jul 15;57(14):2823–6

Assessment of cassia gum. Hallagan JB, et al. **Food Chem Toxicol** 1997 Jun;35(6):625–32 (35 ref.)

Safety evaluation of tannase enzyme preparation derived from Aspergillus oryzae. Lane RW, et al. **Food Chem Toxicol** 1997 Feb;35(2):207–12

Studies on the effects of monosodium glutamate on hepatic microsomal lipid peroxidation, calcium, ascorbic acid and glutathione and its dependent enzymes in adult male mice. Choudhary P, et al. **Toxicol Lett** 1996 Dec;89(1):71–6

Food and Drug Administration risk assessment—process and toxicologic pathology. Moch RW, et al. **Toxicol Pathol** 1997 Jan–Feb;25(1):61–7 (12 ref.)

[Teratogenicity study of magnesium chloride hexahydrate in rats] Usami M, et al. **Eisei Shikenjo Hokoku** 1996; (114):16–20 (Eng. Abstr.) **(Jpn)**

FOOD ADULTERATION see **FOOD CONTAMINATION**

FOOD ALLERGY see **FOOD HYPERSENSITIVITY**

FOOD ANALYSIS

Fumonisins Veratox. A new rapid quantitative ELISA for determination of fumonisin in food and feed. Abouzied MM, et al. **Adv Exp Med Biol** 1996;392:135–44

Non–protein tryptophan in foods. Biasiolo M, et al. **Adv Exp Med Biol** 1996;398:571–4

Tryptophan content of foods and feeds. Conditions for a reliable quantitation. Landry J, et al. **Adv Exp Med Biol** 1996;398:703–9

Food: what a surprise! [editorial; comment] Heaney RP. **Am J Clin Nutr** 1996 Nov;64(5):791–2. Comment on: Am J Clin Nutr 1996 Nov;64(5):731–7.

The Food and Agriculture Organization food–composition initiative. Lupien JR. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1194S–1197S (6 ref.)

Some Food and Drug Administration perspectives of fat and fatty acids. Scarbrough FE. **Am J Clin Nutr** 1997 May;65(5 Suppl):1578S–1580S (6 ref.)

INFOODS: the international network of food data systems. Scrimshaw NS. **Am J Clin Nutr** 1997 Apr;65(4 Suppl):1190S–1193S (17 ref.)

Determination of synephrine enantiomers in food and conjugated synephrine in urine by high–performance liquid chromatography with electrochemical detection [published erratum appears in Anal Biochem 1996 May 1;236(2):378] Kusu F, et al. **Anal Biochem** 1996 Mar 15;235(2):191–4

Isotope dilution gas chromatographic–mass spectrometric method for the determination of isoflavonoids, coumestrol, and lignans in food samples. Mazur W, et al. **Anal Biochem** 1996 Jan 15;233(2):169–80

Determination of organophosphorus pesticides in foods using an accelerated solvent extraction system. Obana H, et al. **Analyst** 1997 Mar;122(3):217–20

Bioactive lipids in foods. Calder PC. **Biochem Soc Trans** 1996 Aug;24(3):814–24 (58 ref.)

Antioxidant activities of flavonoids as bioactive components of food. Rice–Evans CA, et al. **Biochem Soc Trans** 1996 Aug;24(3):790–5 (22 ref.)

Overview of bioactive compounds in foods. Sanders TA. **Biochem Soc Trans** 1996 Aug;24(3):771–5 (29 ref.)

Monitoring of organochlorine pesticide residues—the GEMS/Food program in China. Zhang Y, et al. **Biomed Environ Sci** 1997 Mar;10(1):102–6

Aluminum concentrations in selected foods prepared in aluminum cookware, and its implications for human health. Fimreite N, et al. **Bull Environ Contam Toxicol** 1997 Jan; 58(1):1–7

Acetylsalicylate and salicylates in foods. Janssen PL, et al. **Cancer Lett** 1997 Mar 19;114(1–2):163–4

A food composition database for epidemiological studies in Italy. Salvini S. **Cancer Lett** 1997 Mar 19;114(1–2):299–300

Twenty–four–hour duplicate diet study 1994; nitrate and nitrite: method development and intake per person per day. van Vliet JJ, et al. **Cancer Lett** 1997 Mar 19;114(1–2):305–7

Artifacts and contaminants in the analysis of food flavor. Etiévant PX. **Crit Rev Food Sci Nutr** 1996 Oct;36(7):733–45 (95 ref.)

Amino acid composition of food products used in the treatment of patients with disorders of the amino acid and protein metabolism. Bremer HJ, et al. **Eur J Pediatr** 1996

Jul;155 Suppl 1:S108–14

Biosensors for food analysis. Warsinke A. **EXS** 1997; 81:121–39

Residues of some veterinary drugs in animals and foods. Monographs prepared by the Forty-Seventh meeting of the Joint FAO/WHO Expert Committee on Food Additives. Rome, 4–13 June 1996. **FAO Food Nutr Pap** 1997;41(9):1–139

Residues of some veterinary drugs in animals and foods. Joint FAO/WHO Expert Committee on Food Additives [published erratum appears in FAO Food Nutr Pap 1997;41(9):141, 127–34] **FAO Food Nutr Pap** 1996; 41(8):1–166

Dietary intake of food contaminants in The Netherlands (Dutch Nutrition Surveillance System). Brussaard JH, et al. **Food Addit Contam** 1996 Jul;13(5):561–73

Sampling and analysis for ochratoxin A in foods. Gilbert J. **Food Addit Contam** 1996;13 Suppl:17–8 (3 ref.)

Aluminium levels in Italian diets and in selected foods from aluminium utensils. Gramiccioni L, et al. **Food Addit Contam** 1996 Oct;13(7):767–74

Occurrence and estimated dietary intakes of ochratoxin A in European countries--results from a SCOOP project. Jørgensen K, et al. **Food Addit Contam** 1996;13 Suppl:15–6

Survey of baked goods for propionic acid and propionates. Scotter MJ, et al. **Food Addit Contam** 1996 Feb–Mar; 13(2):133–9

Fluorine intake of a Tibetan population. Cao J, et al. **Food Chem Toxicol** 1996 Aug;34(8):755–7

The safety assessment of novel foods. Guidelines prepared by ILSI Europe Novel Food Task Force. Jonas DA, et al. **Food Chem Toxicol** 1996 Oct;34(10):931–40

Histamine containing food: establishment of a German Food Intolerance Databank (NFID). Diel E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S87–8

Waste yield, proximate and mineral composition of three different types of land snails found in Nigeria. Adeyeye EI. **Int J Food Sci Nutr** 1996 Mar;47(2):111–6

Study of isomeric trans-fatty acids content in the commercial Spanish foods. Fernández San Juan PM. **Int J Food Sci Nutr** 1996 Sep;47(5):399–403

The influence of different food components on the in vitro availability of iron, zinc and calcium from a composed meal. Van Dyck K, et al. **Int J Food Sci Nutr** 1996 Nov; 47(6):499–506

The boron content of selected foods and the estimation of its daily intake among free-living subjects. Naghii MR, et al. **J Am Coll Nutr** 1996 Dec;15(6):614–9

Increased iron content of food due to stainless steel cookware. Park J, et al. **J Am Diet Assoc** 1997 Jun; 97(6):659–61

Improvement of calibration curve for determining peroxide values of food lipids by the modified ferrous oxidation-xylenol orange method. Burat KM, et al. **J AOAC Int** 1996 Jul–Aug;79(4):995–7

Gas chromatographic determination of cyprodinil, fludioxonil, pyrimethanil, and tebuconazole in grapes, must, and wine. Cabras P, et al. **J AOAC Int** 1997 Jul–Aug; 80(4):867–70

Use of solid-phase extraction disks for analysis of moderately polar and nonpolar pesticides in high-moisture foods. Casanova JA. **J AOAC Int** 1996 Jul–Aug;79(4):936–40

Organochlorine and organophosphorus pesticide residues in food from Egyptian local markets. Dogheim SM, et al. **J AOAC Int** 1996 Jul–Aug;79(4):949–52

Liquid chromatographic determination of tocopherols and tocotrienols in margarine, infant foods, and vegetables. Konings EJ, et al. **J AOAC Int** 1996 Jul–Aug;79(4):902–6

Evaluation of Aegys Mi 600 Fourier transform infrared milk analyzer for analysis of fat, protein, lactose, and solids nonfat: a compilation of eight independent studies. Lanher BS. **J AOAC Int** 1996 Nov–Dec;79(6):1388–99

Determination of total free and glucose-conjugated 3-phenoxybenzyl alcohol residues in foods by gas chromatography with electron capture detection. Mortimer RD, et al. **J AOAC Int** 1996 Jul–Aug;79(4):967–71

Monitoring of domestic and imported apples and rice by the U.S. Food and Drug Administration pesticide program. Roy RR, et al. **J AOAC Int** 1997 Jul–Aug;80(4):883–94

Multiresidue method for determination of organochlorine insecticides and polychlorinated biphenyl congeners in fatty processed foods. Sannino A, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1434–46

Florisil solid-phase extraction cartridges for cleanup of organochlorine pesticide residues in foods. Schenck FJ, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1454–8

Levels of Cd, Hg, As, Cu, Mn, and Zn in Japanese restaurant and box lunches. Tsuda T, et al. **J AOAC Int** 1996 Jul–Aug; 79(4):972–5

Enzyme immunoassay for determination of peanut proteins in food products. Yeung JM, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1411–6

Applications of liquid chromatography-mass spectrometry interfacing systems in food analysis: pesticide, drug and toxic substance residues. Careri M, et al. **J Chromatogr A** 1996 Mar 15;727(2):153–84 (162 ref.)

Determination of ethylenethiourea in food commodities by a two-step derivatization method and gas chromatography with electron-capture and nitrogen-phosphorus detection. Dubey JK, et al. **J Chromatogr A** 1997 Mar 21;765(1):31–8

Determination of molecular-mass distribution of food-grade protein hydrolyzates by size-exclusion chromatography and chemiluminescent nitrogen detection. Fujinari EM, et al. **J Chromatogr A** 1997 Feb 28;763(1–2):323–9

Simple and rapid high-performance liquid chromatographic method for the determination of aspartame and its metabolites in foods. Gibbs BF, et al. **J Chromatogr A** 1996 Feb 23;725(2):372–7

Validated high-performance liquid chromatographic method for quantitation of neohesperidine dihydrochalcone in foodstuffs. Montijano H, et al. **J Chromatogr A** 1997 Jan 10;758(1):163–6

Tyramine content of previously restricted foods in monoamine oxidase inhibitor diets [see comments] Walker SE, et al. **J Clin Psychopharmacol** 1996 Oct;16(5):383–8. Comment in: J Clin Psychopharmacol 1997 Jun;17(3):226–7; discussion 227–8. Comment in: J Clin Psychopharmacol 1997 Jun;17(3):227; discussion 227–8.

Tyramine content in Chinese food [letter; comment] Wing YK, et al. **J Clin Psychopharmacol** 1997 Jun;17(3):227; discussion 227–8. Comment on: J Clin Psychopharmacol 1996 Oct;16(5):383–8.

Expert systems for the evaluation of data quality for establishing the Recommended Dietary Allowances. Holden JM. **J Nutr** 1996 Sep;126(9 Suppl):2329S–2336S

Intakes of minerals from diets and foods: is there a need for concern? Pennington JA. **J Nutr** 1996 Sep;126(9 Suppl):2304S–2308S

Identification of allergens in apple, pear, celery, carrot and potato: cross-reactivity with pollen allergens. Ebner C, et al. **Monogr Allergy** 1996;32:73–7 (21 ref.)

Optimization, standardization and control of food allergens. Niemeijer NR, et al. **Monogr Allergy** 1996;32:50–6 (20 ref.)

Cross-reacting allergens in clinical syndromes. Pastorello EA, et al. **Monogr Allergy** 1996;32:57–62 (22 ref.)

Development, acceptability and nutritional evaluation of home made supplements for school children. Chahal S, et al. **Nahrung** 1996 Dec;40(6):345–7

Magnesium, calcium and phosphorus contents in daily food rations in primary school children: questionnaire and analytic studies. Szajkowski Z. **Nahrung** 1996 Dec; 40(6):330–5

Phytoestrogen content of foods--a compendium of literature values. Reinli K, et al. **Nutr Cancer** 1996;26(2):123–48 (36 ref.)

Salicylates in foods. Janssen PL, et al. **Nutr Rev** 1996 Nov; 54(11 Pt 1):357–9 (24 ref.)

The suitability of African bush mango juice for wine production. Akubor PI. **Plant Foods Hum Nutr** 1996 Apr; 49(3):213–9

Mutagenic activity and heterocyclic amine content of the human diet. Knize MG, et al. **Princess Takamatsu Symp** 1995;23:30–8 (37 ref.)

Physiologically-active compounds in plant foods: an overview. Rhodes MJ. **Proc Nutr Soc** 1996 Mar; 55(1B):371–84 (41 ref.)

Sulfamethazine, sulfothiazole and albendazole residue dosage in food products determined by liquid chromatography/tandem mass spectrometry. Casetta B, et al. **Rapid Commun Mass Spectrom** 1996;10(12):1497–503

The study of iodine in Chinese total diets. Hou X, et al. **Sci Total Environ** 1997 Jan 30;193(3):161–7

Evaluation of certain veterinary drug residues in food. Forty-fifth report of the Joint FAO/WHO Expert Committee on Food Additives. **World Health Organ Tech Rep Ser** 1996;864:1–62 (118 ref.)

Vitamin E content of different animal products: influence of animal nutrition. Leonhardt M, et al. **Z Ernahrungswiss** 1997 Mar;36(1):23–7

Daily dietary chromium intake in Belgium, using duplicate portion sampling. Van Cauwenbergh R, et al. **Z Lebensm Unters Forsch** 1996 Sep;203(3):203–6

[Helpful chemistry. Professor A. Ruiter's farewell lecture on 7 November 1966] Ruiter A. **Tijdschr Diergeneeskd** 1997 Apr 15;122(8):221–5 **(Dut)**

[Cancer preventive value of natural, non-nutritive food constituents] Fröhlich RH, et al. **Acta Med Austriaca** 1997; 24(3):108–13 (82 ref.) (Eng. Abstr.) **(Ger)**

[Hidden alcohol in foods?] Greubel S. **Med Monatsschr Pharm** 1997 Aug;20(8):218–9 **(Ger)**

[Content of trans-fatty acids in convenience food] Henninger M, et al. **Z Ernahrungswiss** 1997 Jun;36(2):161–8 (Eng. Abstr.) **(Ger)**

[Condition of supply of Austrians with the trace element chromium] Wilplinger M, et al. **Z Lebensm Unters Forsch** 1996 Sep;203(3):207–9 (Eng. Abstr.) **(Ger)**

[Contents of toxic elements in some raw plant materials] Ivanova TN, et al. **Gig Sanit** 1997 Jan–Feb;(1):21–3 **(Rus)**

[The mixed mineralization in technique in preparing samples for polarographic determination of toxic elements] Tikhonov MA, et al. **Gig Sanit** 1996 Sep–Oct;(5):48–9 **(Rus)**

[The iodine content in the the drinking water and food products and its urinary excretion in Novosibirsk schoolchildren] Seliatitskaia VG, et al. **Vopr Pitan** 1996; (1):27–9 **(Rus)**

[Chemical composition, dietary fiber and mineral content of frequently consumed foods in northwest Mexico] Haro MI, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):145–50 (Eng. Abstr.) **(Spa)**

METHODS

A high-performance liquid chromatographic (HPLC) method for the simultaneous determination of nitrite and formaldehyde from foods. Csiba A, et al. **Acta Vet Hung** 1996;44(2):165–72

The reliability and significance of analytical data on the natural occurrence of fumonisins in food. Thiel PG, et al. **Adv Exp Med Biol** 1996;392:145–51 (43 ref.)

Inhibition by L-ascorbic acid and other antioxidants of the 2,2'-azino-bis(3-ethylbenzthiazoline-6-sulfonic acid) oxidation catalyzed by peroxidase: a new approach for determining total antioxidant status of foods. Arnao MB, et al. **Anal Biochem** 1996 May 1;236(2):255–61

Structural determination of unknown subsidiary colors in food yellow no. 5 (Sunset yellow FCF). Yamada M, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1624–7

Comparison of supercritical fluid extraction and solvent extraction of twenty-two organochlorine pesticides from eggs. Wigfield YY, et al. **Chemosphere** 1996 Mar; 32(5):841–7

The sulfites: Part I. Fisher AA. **Cutis** 1997 Jun;59(6):305

The determination of choline in vitamin preparations, infant formula and selected foods by capillary zone electrophoresis with indirect ultraviolet detection. Carter N, et al. **Electrophoresis** 1996 Oct;17(10):1622–6

Analytical methodology and regulations for ochratoxin A. Van Egmond HP. **Food Addit Contam** 1996;13 Suppl:11–3 (8 ref.)

Application of a rapid automated immunosensor for the detection of Staphylococcus aureus enterotoxin B in cream. Strachan NJ, et al. **Int J Food Microbiol** 1997 Apr 15; 35(3):293–7

Computed and chemically determined nutrient content of foods in Greece. The Foods and Nutrients Working Group. Boulous C, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):507–11

Nutrient composition and nutritional importance of green leaves and wild food resources in an agricultural district, Koutiala, in southern Mali. Nordeide MB, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):455–68

Robotic automated analysis of foods for aflatoxin. Carman AS Jr, et al. **J AOAC Int** 1996 Mar–Apr;79(2):456–64

Supercritical fluid extraction of volatile N-nitrosamines in fried bacon and its drippings: method comparison. Fiddler W, et al. **J AOAC Int** 1996 Jul–Aug;79(4):895–901

Spectrophotometric method for determination of paraquat in food and biological samples. Kesari R, et al. **J AOAC Int** 1997 Mar–Apr;80(2):388–91

Variability associated with analytical methods used to measure aflatoxin in agricultural commodities. Whitaker T, et al. **J AOAC Int** 1996 Mar–Apr;79(2):476–85

Presence of tetrahydro-beta-carboline-3-carboxylic acids in foods by gas chromatography-mass spectrometry as their N-methoxycarbonyl methyl ester derivatives. Herraiz T, et al. **J Chromatogr A** 1997 Mar 28;765(2):265–77

Analysis of foods for heterocyclic aromatic amine carcinogens by solid-phase extraction and high-performance liquid chromatography. Knize MG, et al. **J Chromatogr A** 1997 Feb 28;763(1–2):179–85

High-performance liquid chromatographic evaluation of biogenic amines in foods. An analysis of different methods of sample preparation in relation to food characteristics. Moret S, et al. **J Chromatogr A** 1996 Apr 5;729(1–2):363–9

Determination of heterocyclic aromatic amines by micellar electrokinetic chromatography with amperometric detection. Olsson JC, et al. **J Chromatogr A** 1997 Mar 28; 765(2):329–35

Pesticide residue analysis in foodstuffs applying capillary gas chromatography with atomic emission detection state-of-the-art use of modified multimethod S19 of the Deutsche forschungsgemeinschaft and automated large-volume injection with programmed-temperature vaporization and solvent venting. Stan HJ, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):369–90 (33 ref.)

Determination of amino acids in the foods by reversed-phase high-performance liquid chromatography with a new precolumn derivative, butylthiocarbamyl amino acid, compared to the conventional phenylthiocarbamyl derivatives and ion-exchange chromatography. Woo KL, et al. **J Chromatogr A** 1996 Jul 26;740(1):31–40

Quality milk and tests for antibiotic residues. Sischo WM. **J Dairy Sci** 1996 Jun;79(6):1065–73 (20 ref.)

The protein digestibility-corrected amino acid score method overestimates quality of proteins containing antinutritional factors and of poorly digestible proteins supplemented with limiting amino acids in rats. Sarwar G. **J Nutr** 1997 May; 127(5):758–64

Allergenicity of foods derived from transgenic plants. Astwood JD, et al. **Monogr Allergy** 1996;32:105–20

Specific IgG antibodies as markers of adverse reactions to foods. Marinkovich V. **Monogr Allergy** 1996;32:221–5 (7 ref.)

Chemical composition and structure of food constituents: defining allergenic potential. Miller K, et al. **Monogr Allergy** 1996;32:100–4

Determination of heterocyclic aromatic amines in food products: automation of the sample preparation method prior to HPLC and HPLC-MS quantification. Fay LB, et al. **Mutat Res** 1997 May 12;376(1–2):29–35

Processes in ranking nutrients of foods in a food data base. Khan AS. **Nutr Health** 1996;11(1):59–72

A modification of a method to determine expressible moisture in ground, dark poultry meat. Earl LA, et al. **Poult Sci**

1996 Nov;75(11):1433–6

Is there any possibility of detecting the use of genetic engineering in processed foods? Greiner R, et al. **Z Ernahrungswiss** 1997 Jun;36(2):155–60

[A method to estimate the nutritional value of food sold by street vendors] Ag Bendech M, et al. **Med Trop (Mars)** 1996;56(4):361–6 (Eng. Abstr.) **(Fre)**

[Comparison of several fluorescence HPLC methods for fumonisin analysis] Akiyama H, et al. **Eisei Shikenjo Hokoku** 1994;(112):112–7 (Eng. Abstr.) **(Jpn)**

[Determination of total bromine in foods by ECD gas chromatograph] Matsuda R, et al. **Eisei Shikenjo Hokoku** 1994;(112):108–11 (Eng. Abstr.) **(Jpn)**

[Methods of the analysis of nitrosamines in food products] Val'ter AI, et al. **Gig Sanit** 1996 Nov–Dec;(6):49–50 **(Rus)**

[Instrumental methods and express analyzers for measuring composition and quality of milk and dairy products] Brusilovskiĭ LP, et al. **Vopr Pitan** 1996;(4):42–7 **(Rus)**

[Enzymatic analysis of the quality of foodstuffs] Kolesnov AIu. **Vopr Pitan** 1997;(3):21–5 (Eng. Abstr.) **(Rus)**

STANDARDS

Simultaneous separation of soya bean and animal whey proteins by reversed-phase high-performance liquid chromatography. Quantitative analysis in edible samples. García MC, et al. **Anal Chem** 1997 Jun 1;69(11):2217–20

Current testing procedures for residues and contaminants. Human Food Safety Program, Center for Veterinary Medicine. Farber TM. **Drug Metab Rev** 1995;27(4):543–8

Analytical quality assurance for the WHO GEMS/Food-EURO programme--results of 1993/94 laboratory proficiency testing. Weigert P, et al. **Food Addit Contam** 1997 May–Jun;14(4):399–410

Effect of seeds on bile-enzymatic-gravimetric analysis of total dietary fiber. Cranker KJ, et al. **J AOAC Int** 1997 Jan–Feb;80(1):95–7

Comparison of modified TECRA visual immunoassay with AOAC method 989.14 and reference culture methods 967.25–967.28 for detection of Salmonella in foods and related samples. Hughes D, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1344–59

International proficiency testing of analytical laboratories for foods and feeds from 1990 to 1996: the experiences of the United Kingdom Food Analysis Performance Assessment Scheme. Key PE, et al. **J AOAC Int** 1997 Jul–Aug; 80(4):895–9

Advances in determination of antibiotic residues. Moats WA. **J AOAC Int** 1997 Jan–Feb;80(1):1–4

Determination of total phosphorus in foods by colorimetry: summary of NMKL collaborative study. Pulliainen TK, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1408–11

Rapid and alternative screening methods for microbiological analysis. van der Zee H, et al. **J AOAC Int** 1997 Jul–Aug; 80(4):934–40 (27 ref.)

Method for measuring base/neutral and carbamate pesticides in personal dietary samples. Sheldon LS, et al. **J Expo Anal Environ Epidemiol** 1997 Jan–Mar;7(1):37–59

Testing duplicate diet sample collection methods for measuring personal dietary exposures to chemical contaminants. Thomas KW, et al. **J Expo Anal Environ Epidemiol** 1997 Jan–Mar;7(1):17–36

STATISTICS & NUMERICAL DATA

The reliability and significance of analytical data on the natural occurrence of fumonisins in food. Thiel PG, et al. **Adv Exp Med Biol** 1996;392:145–51 (43 ref.)

Comparison of the plaque pH response to an acidogenic challenge in children and adults. Tahmassebi JF, et al. **Caries Res** 1996;30(5):342–6

[Allowable fluctuations in the data on the content of lipid-complex components in food products in chemical composition tables] Baĭko VG, et al. **Vopr Pitan** 1996; (1):16–8 (Eng. Abstr.) **(Rus)**

FOOD AND AGRICULTURAL ORGANIZATION, UNITED NATIONS see **UNITED NATIONS**

FOOD AND DRUG ADMINISTRATION (U.S.) see **UNITED STATES FOOD AND DRUG ADMINISTRATION**

FOOD BROWNING see **MAILLARD REACTION**

FOOD, CANNED see **FOOD PRESERVATION**

FOOD COLORANTS see **FOOD COLORING AGENTS**

FOOD COLORING AGENTS

The sulfites: Part I. Fisher AA. **Cutis** 1997 Jun;59(6):305

ADMINISTRATION & DOSAGE

Effect of oral and parenteral administration of metanil yellow on some hepatic and intestinal biochemical parameters. Ramchandani S, et al. **J Appl Toxicol** 1997 Jan–Feb; 17(1):85–91

ADVERSE EFFECTS

Interaction of immobilised food dye residues with gut proteins. Jervis L. **Biochem Soc Trans** 1996 Aug;24(3):395S

Canthaxanthine retinopathy. Bloomenstein MR, et al. **J Am Optom Assoc** 1996 Nov;67(11):690–2

[Effect of an oligo-antigen diet on the behavior of hyperkinetic children] Schulte-Körne G, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):176–83 (Eng. Abstr.) **(Ger)**

ANALYSIS

Simultaneous determination of the colorants sunset yellow FCF and quinoline yellow by solid-phase spectrophotometry using partial least squares multivariate calibration. Capitán-Vallvey LF, et al. **Analyst** 1997 Apr; 122(4):351–4

Structural determination of unknown subsidiary colors in food yellow no. 5 (Sunset yellow FCF). Yamada M, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1624–7

Distribution profiles of sulphur in caramel colours on a gel-filtration column studied by HPLC/ICP. Maitani T, et al. **Food Addit Contam** 1996 Nov–Dec;13(8):1001–8

Fragmentation of isomeric N-quinolinylphthalimides on electron impact ionization. Weisz A, et al. **J Mass Spectrom** 1996 Jun;31(6):676–80

[Official inspection estimated production of coal-tar dyes (including dye aluminum lakes) in 1993–1994] Ishimitsu S, et al. **Eisei Shikenjo Hokoku** 1994;(112):152–4 (Eng. Abstr.) **(Jpn)**

[Estimated production by the official inspection of coal-tar dyes (including dye aluminum lakes) in 1995] Ishimitsu S, et al. **Eisei Shikenjo Hokoku** 1996;(114):102–5 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Spectrometric determination of chromium in FD&C blue no. 1 by X-ray fluorescence. Hepp NM. **J AOAC Int** 1996 Sep–Oct;79(5):1189–90

METABOLISM

Interaction of immobilised food dye residues with gut proteins. Jervis L. **Biochem Soc Trans** 1996 Aug;24(3):395S

PHARMACOLOGY

Inhibition of 12-O-tetradecanoylphorbol-13-acetate induced Epstein-Barr virus early antigen activation by natural colorants. Kapadia GJ, et al. **Cancer Lett** 1997 May 19; 115(2):173–8

STANDARDS

Growth performance and intestinal microbial populations of growing pigs fed diets containing sucrose thermal oligosaccharide caramel. Orban JI, et al. **J Anim Sci** 1997 Jan;75(1):170–5

TOXICITY

Reproductive and neurobehavioural effects of lac dye administered in the diet to mice. Tanaka T. **Food Addit Contam** 1997 May–Jun;14(4):373–80

Occurrence of birefringent retinal inclusions in cynomolgus monkeys after high doses of canthaxanthin. Goralczyk R, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):741–52

Developmental toxicity of Orange B given to rats in drinking water. Collins TF, et al. **Toxicol Ind Health** 1995 Jul–Aug; 11(4):387–97

Acute and subacute toxicity tests of madder root, natural colorant extracted from madder (Rubia tinctorum), in (C57BL/6 X C3H)F1 mice. Ino N, et al. **Toxicol Ind Health** 1995 Jul–Aug;11(4):449–58

[A 13-week subchronic toxicity study of gardenia blue in F344 rats] Imazawa T, et al. **Eisei Shikenjo Hokoku** 1996; (114):27–32 (Eng. Abstr.) **(Jpn)**

[A 13-week toxicity study of simultaneous administration of cochineal and aluminum potassium sulfate in rats] Kawasaki Y, et al. **Eisei Shikenjo Hokoku** 1994;(112):48–56 (Eng. Abstr.) **(Jpn)**

FOOD CONTAINERS see **FOOD PACKAGING**

FOOD CONTAMINATION

The problems of food-borne disease in Hungary. Ralovich B. **Acta Microbiol Immunol Hung** 1996;43(4):319–32

Nutrient content and survival of selected pathogenic bacteria in kenkey used as a weaning food in Ghana. Annan-Prah A, et al. **Acta Trop** 1997 Apr 30;65(1):33–42

Proceedings of an American Chemical Society Symposium on Fumonisins in Food. Anaheim, California, April 2–7, 1995. **Adv Exp Med Biol** 1996;392:1–399

Distribution of fumonisins in food and feed products prepared from contaminated corn. Bennett GA, et al. **Adv Exp Med Biol** 1996;392:317–22

Occurrence of Fusarium and fumonisins on food grains and in foods. Bullerman LB. **Adv Exp Med Biol** 1996;392:27–38 (31 ref.)

Effect of thermal processing on the stability of fumonisins. Jackson LS, et al. **Adv Exp Med Biol** 1996;392:345–53 (38 ref.)

Approaches to the risk assessment of fumonisins in corn-based foods in Canada. Kuiper-Goodman T, et al. **Adv Exp Med Biol** 1996;392:369–93 (80 ref.)

Regulatory aspects of fumonisins with respect to animal feed. Animal derived residues in foods. Miller MA, et al. **Adv Exp Med Biol** 1996;392:363–8 (4 ref.)

Reduction of risks associated with fumonisin contamination in corn. Park DL, et al. **Adv Exp Med Biol** 1996;392:335–44

Analytical determination of fumonisins and other metabolites produced by Fusarium moniliforme and related species on corn. Plattner RD, et al. **Adv Exp Med Biol** 1996;392:57–64

Occurrence of fumonisins in the U.S. food supply. Pohland AE. **Adv Exp Med Biol** 1996;392:19–26 (34 ref.)

Biological fate of fumonisin B1 in food-producing animals. Prelusky DB, et al. **Adv Exp Med Biol** 1996;392:265–78

Occurrence and fate of fumonisins in beef. Smith JS, et al. **Adv Exp Med Biol** 1996;392:39–55

Regulatory aspects of fumonisins in the United States. Troxell TC. **Adv Exp Med Biol** 1996;392:355–61 (4 ref.)

Increased mortality from chronic liver disease and cirrhosis 13 years after the Taiwan "yucheng" ("oil disease") incident. Yu ML, et al. **Am J Ind Med** 1997 Feb;31(2):172–5

Effects of dietary fumonisin B1-containing culture material, deoxynivalenol-contaminated wheat, or their combination on growing barrows. Harvey RB, et al. **Am J Vet Res** 1996 Dec;57(12):1790–4

Aflatoxin variability in pistachios. Mahoney NE, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1197–202

Transfer of lead from lead-glazed ceramics to food. González de Mejía E, et al. **Arch Environ Contam Toxicol** 1996 Nov; 31(4):581–4

Blood serum levels of PCBs and PCDFs in Yucheng women 14 years after exposure to a toxic rice oil. Guo YL, et al. **Arch Environ Contam Toxicol** 1997 Jul;33(1):104–8

Food chain analysis of exposures and risks to wildlife at a metals-contaminated wetland. Pascoe GA, et al. **Arch Environ Contam Toxicol** 1996 Mar;30(3):306–18

Evaluation of Osilinus attratus as a bioindicator organism to monitor oil pollution in the Canary Islands. Peña E, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):444–52

Immunological aspects of the toxic oil syndrome. Lahoz C, et al. **Arch Toxicol Suppl** 1997;19:65–73 (35 ref.)

Epidemiology of the toxic oil syndrome. Philen RM, et al. **Arch Toxicol Suppl** 1997;19:41–52 (25 ref.)

Analytical measurements of products of aniline and triglycerides in oil samples associated with the toxic oil syndrome. Schurz HH, et al. **Arch Toxicol Suppl** 1997; 19:53–64

Determination of lead and cadmium content in the rice consumed in Maracaibo, Venezuela. Buscema I, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):94–8

PCB intake from sport fishing along the northern Illinois shore of Lake Michigan. Pellettieri MB, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):766–70

Summary of the National Consensus Conference on Foodborne, Waterborne and Enteric Disease Surveillance. **Can Commun Dis Rep** 1996 Jun 1;22(11):81–4 (0 ref.) **(Eng, Fre)**

Mycotoxins in fungal contaminated samples of animal feed from western Canada, 1982–1994. Abramson D, et al. **Can J Vet Res** 1997 Jan;61(1):49–52

Multiple myeloma: clusters, clues, and dioxins. Schwartz GG. **Cancer Epidemiol Biomarkers Prev** 1997 Jan;6(1):49–56 (84 ref.)

Xenobiotics in food. I. Metabolic phthalate degradation. Weidenhoffer Z, et al. **Cent Eur J Public Health** 1996 Feb; 4(1):11–5

Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/PCDF) in food samples collected in southern Mississippi, USA. Fiedler H, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):1411–9

PCDDS and PCDFS in milk from farms in Derbyshire, U.K. Harrison N, et al. **Chemosphere** 1996 Feb;32(3):453–60

Determination of polychlorinated dibenzo-p-dioxin and dibenzofuran background in milk and cheese by quadrupole ion storage collision induced dissociation MS/MS. Hayward DG. **Chemosphere** 1997 Mar–Apr;34(5–7):929–39

Comparison of clinical picture between Yusho/Yucheng cases and occupational PCB poisoning cases. Ikeda M. **Chemosphere** 1996 Feb;32(3):559–66 (53 ref.)

Levels of PCDDs, PCDFs and non-ortho PCBs in dietary supplement fish oil obtained in Spain. Jimenez B, et al. **Chemosphere** 1996 Feb;32(3):461–7

Levels of selected ortho and non-ortho polychlorinated biphenyls in UK retail milk. Krokos F, et al. **Chemosphere** 1996 Feb;32(4):667–73

PCB and PCDD/DF congeners in locally grown fruit and vegetable samples in Wales and England. Lovett AA, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):1421–36

Lipid extraction from blood and biological samples and concentrations of dioxin-like compounds. Ryan JJ, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):999–1009

Levels of dioxins, dibenzofurans, PCB and DDE congeners in pooled food samples collected in 1995 at supermarkets across the United States. Schecter A, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):1437–47

Dioxins, dibenzofurans, dioxin-like PCBs, and DDE in U.S. fast food, 1995. Schecter A, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):1449–57

Cancer risk assessment using blood dioxin levels and daily dietary TEQ intake in general populations of industrial and non-industrial countries. Schecter A, et al. **Chemosphere** 1997 Mar–Apr;34(5–7):1569–77

Concentrations of polychlorinated dibenzo-p-dioxins and dibenzofurans in human placental and fetal tissues from the U.S. and in placentas from Yu-Cheng exposed mothers. Schecter A, et al. **Chemosphere** 1996 Feb;32(3):551-7

Reassessment of PCDD/DFs and Co-PCBs toxicity in contaminated rice-bran oil responsible for the disease "Yu-Cheng". Soong DK, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1579-86

Comparisons of heavy metal concentration of grass carp (Ctenopharyngodon idella Cuv. et Val.) in a shallow eutrophic lake and a fish pond (possible effects of food contamination). Vigh P, et al. **Chemosphere** 1996 Feb; 32(4):691-701

Toxaphene, PCB, DDT, and Chlordane Analyses of Beluga whale blubber. Wade TL, et al. **Chemosphere** 1997 Mar-Apr;34(5-7):1351-7

Wheatburger anaphylaxis due to hidden buckwheat [letter] Wüthrich B, et al. **Clin Exp Allergy** 1995 Dec;25(12):1263

Antifungal attributes of lactic acid bacteria--a review. Batish VK, et al. **Crit Rev Biotechnol** 1997;17(3):209-25 (61 ref.)

Artifacts and contaminants in the analysis of food flavor. Etiévant PX. **Crit Rev Food Sci Nutr** 1996 Oct;36(7):733-45 (95 ref.)

Clinicoepidemiological, toxicological, and safety evaluation studies on argemone oil. Das M, et al.
Crit Rev Toxicol 1997 May;27(3):273-97 (137 ref.)

A new triad: sensitivity to aspirin, allergic rhinitis, and severe allergic reaction to ingested aeroallergens. Sánchez-Borges M, et al. **Cutis** 1997 Jun;59(6):311-4 (11 ref.)

Preschoolers' understanding of mental and bodily reactions to contamination: what you don't know can hurt you, but cannot sadden you. Kalish C. **Dev Psychol** 1997 Jan; 33(1):79-91

Current testing procedures for residues and contaminants. Human Food Safety Program, Center for Veterinary Medicine. Farber TM. **Drug Metab Rev** 1995;27(4):543-8

Identifying the "residue of toxicological concern"--exposure assessments. Fitzpatrick SC. **Drug Metab Rev** 1995; 27(4):557-61 (5 ref.)

Improving exposure estimates for indirect food additives. Heimbach JT. **Drug Metab Rev** 1995;27(4):563-72 (4 ref.)

Identifying the "residue of toxicological concern"--bioavailability and bioactivity testing. MacDonald A. **Drug Metab Rev** 1995;27(4):549-56 (5 ref.)

Carcinogens in food [news] **Environ Health Perspect** 1996 Jul;104(7):685

Human germinal mutagenic effects in relation to intentional and accidental exposure to toxic agents. Czeizel AE.
Environ Health Perspect 1996 May;104 Suppl 3:615-7

PCDDs, PCDFs, and PCBs in human blood in relation to consumption of crabs from a contaminated Fjord area in Norway. Johansen HR, et al. **Environ Health Perspect** 1996 Jul;104(7):756-64

Dietary exposures to selected metals and pesticides. MacIntosh DL, et al. **Environ Health Perspect** 1996 Feb; 104(2):202-9

Natural occurrence of mycotoxins in different spices in Egypt. El-Kady IA, et al. **Folia Microbiol (Praha)** 1995; 40(3):297-300

The application of a predictive migration model for evaluating the compliance of plastic materials with European food regulations. Baner A, et al.
Food Addit Contam 1996 Jul;13(5):587-601

Conclusions from the Workshop on Ochratoxin in Food, organized by ILSI Europe in Aix-en-Provence (10-12 January 1996) [editorial] Battalglia R, et al.
Food Addit Contam 1996;13 Suppl:1-3

Dietary intake of food contaminants in The Netherlands (Dutch Nutrition Surveillance System). Brussaard JH, et al. **Food Addit Contam** 1996 Jul;13(5):561-73

Aspartame as a preventive agent of chronic toxic effects of ochratoxin A in experimental animals. Creppy EE, et al. **Food Addit Contam** 1996;13 Suppl:51-2 (6 ref.)

Occurrence of deoxynivalenol and Fusarium graminearum in Argentinian wheat. Dalcero A, et al.
Food Addit Contam 1997 Jan;14(1):11-4

An intercomparison of methods for the determination of ochratoxin A in pig kidney. Entwisle AC, et al.
Food Addit Contam 1997 Apr;14(3):223-36

Purity of food cooked in stainless steel utensils. Flint GN, et al. **Food Addit Contam** 1997 Feb-Mar;14(2):115-26

Determination of methylcyclopentadienyl manganese tricarbonyl in beverages by solid-phase microextraction. Forsyth DS, et al. **Food Addit Contam** 1997 Apr;14(3):301-7

Food control surveys of polychlorinated dibenzo-p-dioxins and dibenzofurans and intake estimates. Hallikainen A, et al. **Food Addit Contam** 1997 May-Jun;14(4):355-66 (64 ref.)

Polycyclic aromatic hydrocarbons in food products originating from locally reared animals in Kuwait. Husain A, et al. **Food Addit Contam** 1997 Apr;14(3):295-9

Occurrence and estimated dietary intakes of ochratoxin A in European countries--results from a SCOOP project. Jørgensen K, et al. **Food Addit Contam** 1996;13 Suppl:15-6

Estimation of menthol in Pan Masala samples by a spectrophotometric method. Kannan A, et al.
Food Addit Contam 1997 May-Jun;14(4):367-71

Food-contact epoxy resin: co-variation between migration and degree of cross-linking. Lambert C, et al.
Food Addit Contam 1997 Feb-Mar;14(2):199-208

Using a simple diffusion model to predict residual monomer migration--considerations and limitations. Lickly TD, et al. **Food Addit Contam** 1997 Jan;14(1):65-74

Mycotoxins in ingredients of animal feeding stuffs: I. Determination of Alternaria mycotoxins in oilseed rape meal and sunflower seed meal. Nawaz S, et al.
Food Addit Contam 1997 Apr;14(3):249-62

The effects of milling and processing on wheat contaminated with ochratoxin A. Osborne BG, et al.
Food Addit Contam 1996 Feb-Mar;13(2):141-53

Natural occurrence of deoxynivalenol in wheat, wheat flour and bakery products in Argentina. Pacin AM, et al.
Food Addit Contam 1997 May-Jun;14(4):327-31

Survey of ochratoxin A in UK retail coffees. Patel S, et al.
Food Addit Contam 1997 Apr;14(3):217-22

Surveillance of fumonisins in UK maize-based foods and other cereals. Patel S, et al. **Food Addit Contam** 1997 Feb-Mar;14(2):187-91

Aflatoxin M1 occurrence in samples of Grana Padano cheese. Peitri A, et al. **Food Addit Contam** 1997 May-Jun; 14(4):341-4

Natural contamination of spring barley with group A trichothecene mycotoxins in south-eastern Poland. Perkowski J, et al. **Food Addit Contam** 1997 May-Jun; 14(4):321-5

Migration from PVC cling films compared with their field of application. Petersen JH, et al. **Food Addit Contam** 1997 May-Jun;14(4):345-53

Reactions of epoxide monomers in food simulants used to test plastics for migration. Philo MR, et al.
Food Addit Contam 1997 Jan;14(1):75-82

Food and packaging interactions: tailoring fatty food simulants. Riquet AM, et al. **Food Addit Contam** 1997 Jan; 14(1):53-63

The effect of cooking on veterinary drug residues in food; 5. Oxfendazole. Rose MD, et al. **Food Addit Contam** 1997 Jan;14(1):15-26

Effects of processing and detoxification treatments on ochratoxin A: introduction. Scott PM.
Food Addit Contam 1996;13 Suppl:19-21 (18 ref.)

Multi-year monitoring of Canadian grains and grain-based foods for trichothecenes and zearalenone. Scott PM.
Food Addit Contam 1997 May-Jun;14(4):333-9

Occurrence of mycotoxins in raw ingredients used for animal feeding stuffs in the United Kingdom in 1992. Scudamore KA, et al. **Food Addit Contam** 1997 Feb-Mar;14(2):157-73

Determination of mycotoxins in pet foods sold for domestic pets and wild birds using linked-column immunoassay clean-up and HPLC. Scudamore KA, et al.
Food Addit Contam 1997 Feb-Mar;14(2):175-86

Natural occurrence of trichothecenes and zearalenone in Korean and imported beers. Shim WB, et al.
Food Addit Contam 1997 Jan;14(1):1-5

Essential elements (Mn, Fe, Cu, Zn) in pork and duck liver paste produced in Spain. Sola S, et al.
Food Addit Contam 1997 Feb-Mar;14(2):135-41

Determination of potential migrants present in Nylon 'microwave and roasting bags' and migration into olive oil. Soto-Valdez H, et al. **Food Addit Contam** 1997 Apr; 14(3):309-18

Comparison of enzyme immunoassay and mouse bioassay for determining paralytic shellfish poisoning toxins in shellfish. Usleber E, et al. **Food Addit Contam** 1997 Feb-Mar; 14(2):193-8

Screening of European coffee final products for occurrence of ochratoxin A (OTA). v.d. Stegen G, et al.
Food Addit Contam 1997 Apr;14(3):211-6

Analytical quality assurance for the WHO GEMS/Food-EURO programme--results of 1993/94 laboratory proficiency testing. Weigert P, et al.
Food Addit Contam 1997 May-Jun;14(4):399-410

Anti-aflatoxin mutagenic factors in corn. Weng CY, et al.
Food Addit Contam 1997 Apr;14(3):269-79

Ochratoxin A in wheat: certification of two reference materials. Wood GM, et al. **Food Addit Contam** 1997 Apr; 14(3):237-48

Ochratoxin A in wheat: a second intercomparison of procedures. Wood GM, et al. **Food Addit Contam** 1996 Jul; 13(5):519-39

Forensic examination of a mouse allegedly found in a previously sealed can of milk stout. Williams MC.
Forensic Sci Int 1996 Oct 25;82(3):211-5

Carcinogens in food: priorities for regulatory action. McDonald AL, et al. **Hum Exp Toxicol** 1996 Sep; 15(9):739-46

Emerging foodborne diseases. **Indian Pediatr** 1997 Feb; 34(2):171-2

Histamine containing food: establishment of a German Food Intolerance Databank (NFID). Diel E, et al.
Inflamm Res 1997 Mar;46 Suppl 1:S87-8

The integrity of the liver among people environmentally exposed to cadmium at various levels. Ikeda M, et al.
Int Arch Occup Environ Health 1997;69(6):379-85

Driving predictive modelling on a risk assessment path for enhanced food safety. Foegeding PM.
Int J Food Microbiol 1997 May 20;36(2-3):87-95

Fatalities from E. coli 0157 [editorial] O'Flanagan D.
Ir Med J 1997 Apr-May;90(3):88, 90

Anaphylaxis after ingestion of wheat flour contaminated with mites. Blanco C, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):308-13

Mite-contaminated foods as a cause of anaphylaxis. Sanchez-Borges M, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):738-43

Determination of patulin in apple juice by liquid chromatography: collaborative study. Brause AR, et al. **J AOAC Int** 1996 Mar-Apr;79(2):451-5

Robotic automated analysis of foods for aflatoxin. Carman AS Jr, et al. **J AOAC Int** 1996 Mar-Apr;79(2):456-64

Comparison of three methods for determining aflatoxins in melon seeds. DiProssimo VP, et al. **J AOAC Int** 1996 Nov-Dec;79(6):1330-5

Determination and degradation of methomyl in tomatoes and green beans grown in greenhouses. Gil Garcia MD, et al. **J AOAC Int** 1997 May-Jun;80(3):633-8

Extraction and cleanup of organochlorine and organophosphorus pesticide residues in fats by supercritical fluid techniques. Hopper ML. **J AOAC Int** 1997 May-Jun; 80(3):639-46

Assessment of immunochemical methods for the analysis of trichothecene mycotoxins in naturally occurring moldy corn. Park JJ, et al. **J AOAC Int** 1996 Mar-Apr; 79(2):465-71

Physicochemical data for some selected Fusarium toxins. Sydenham EW, et al. **J AOAC Int** 1996 Nov-Dec; 79(6):1365-79

Determination of deoxynivalenol in wheat, barley, and malt by column cleanup and gas chromatography with electron capture detection. Tacke BK, et al. **J AOAC Int** 1996 Mar-Apr;79(2):472-5

Determination and survey of deoxynivalenol in white flour, whole wheat flour, and bran. Trucksess MW, et al.
J AOAC Int 1996 Jul-Aug;79(4):883-7

Comparison of mouse bioassay and sodium channel cytotoxicity assay for detecting paralytic shellfish poisoning toxins in shellfish extracts. Truman P, et al.
J AOAC Int 1996 Sep-Oct;79(5):1130-3

Rapid and alternative screening methods for microbiological analysis. van der Zee H, et al. **J AOAC Int** 1997 Jul-Aug; 80(4):934-40 (27 ref.)

Variability associated with analytical methods used to measure aflatoxin in agricultural commodities. Whitaker T, et al. **J AOAC Int** 1996 Mar-Apr;79(2):476-85

Determination of o-phenylphenol, diphenylamine, and propargite pesticide residues in selected fruits and vegetables by gas chromatography/mass spectrometry. Yu L, et al. **J AOAC Int** 1997 May-Jun;80(3):651-6

Restriction endonuclease analysis, DNA relatedness and phenotypic characterization of Campylobacter jejuni and Camp. coli isolates involved in food-borne disease. Jiménez A, et al. **J Appl Microbiol** 1997 Jun;82(6):713-21

Points clarified related to article on mercury in fish [letter] Nix JF. **J Ark Med Soc** 1996 Aug;93(3):118

Determination of the furazolidone metabolite, 3-amino-2-oxazolidinone, in porcine tissues using liquid chromatography-thermospray mass spectrometry and the occurrence of residues in pigs produced in Northern Ireland. McCracken RJ, et al.
J Chromatogr B Biomed Appl 1997 Mar 28;691(1):87-94

Food-borne disease outbreaks due to bacteria in Taiwan, 1986 to 1995. Pan TM, et al. **J Clin Microbiol** 1997 May; 35(5):1260-2

Advances in dietary exposure research at the United States Environmental Protection Agency-National Exposure Research Laboratory. Berry MR.
J Expo Anal Environ Epidemiol 1997 Jan-Mar;7(1):3-16

Estimation of fish consumption and methylmercury intake in the New Jersey population. Stern AH, et al.
J Expo Anal Environ Epidemiol 1996 Oct-Dec;6(4):503-25

Cannabis cookies: a cause of coma. Boros CA, et al.
J Paediatr Child Health 1996 Apr;32(2):194-5

Concentrations of blood and hair mercury and serum PCBs in an Ojibwa population that consumes Great Lakes region fish. Gerstenberger SL, et al. **J Toxicol Clin Toxicol** 1997; 35(4):377-86

Effects induced by feeding organochlorine-contaminated carp from Saginaw Bay, Lake Huron, to laying White Leghorn hens. II. Embryotoxic and teratogenic effects. Summer CL, et al. **J Toxicol Environ Health** 1996 Nov; 49(4):409-38

Effect of feeding deoxynivalenol (vomitoxin)-contaminated barley to horses. Johnson PJ, et al. **J Vet Diagn Invest** 1997 Apr;9(2):219-21

From the Centers for Disease Control and Prevention. Outbreaks of Escherichia coli O157:H7 infection and cryptosporidiosis associated with drinking unpasteurized apple cider--Connecticut and New York, October 1996. **JAMA** 1997 Mar 12;277(10):781-2

An outbreak of Shigella dysenteriae type 2 among laboratory workers due to intentional food contamination. Kolavic SA, et al. **JAMA** 1997 Aug 6;278(5):396-8

A large community outbreak of salmonellosis caused by intentional contamination of restaurant salad bars. Török TJ, et al. **JAMA** 1997 Aug 6;278(5):389-95

Toxicity of tungsten [letter; comment] Lison D, et al.
Lancet 1997 Jan 4;349(9044):58-9. Comment on: Lancet 1996 Oct 19;348(9034):1070.

A soldier who had seizures after drinking quarter of a litre of wine. Marquet P, et al. **Lancet** 1996 Oct 19; 348(9034):1070

Oral transmission of BSE to primates [letter] Ridley RM, et al. **Lancet** 1996 Oct 26;348(9035):1174

Bioaccumulation of mercury in the aquatic food chain in newly flooded areas. Bodaly RA, et al.
Met Ions Biol Syst 1997;34:259-87 (93 ref.)

Detection of enterohaemorrhagic Escherichia coli O157:H7 in minced beef using immunomagnetic separation. Blanco

JE, et al. **Microbiologia** 1996 Sep;12(3):385–94

Outbreaks of Escherichia coli O157:H7 infection and cryptosporidiosis associated with drinking unpasteurized apple cider—Connecticut and New York, October 1996. **MMWR Morb Mortal Wkly Rep** 1997 Jan 10;46(1):4–8

Monitoring program for mycotoxin contamination in Uruguayan food and feeds. Piñeiro M, et al. **Nat Toxins** 1996;4(5):242–5

CJD variant stirs debate on release of data [news] Butler D. **Nature** 1996 Oct 24;383(6602):658

How BSE crisis forced Europe out of its complacency [news] Butler D. **Nature** 1997 Jan 2;385(6611):6–7

Risk assessment of mercury exposure through fish consumption by the riverside people in the Madeira Basin, Amazon, 1991. Boischio AA, et al. **Neurotoxicology** 1996 Spring;17(1):169–75

Do historic studies of fish consumers support the widely accepted LOEL for methylmercury in adults. Kosatsky T, et al. **Neurotoxicology** 1996 Spring;17(1):177–86 (30 ref.)

Ingestion of herring leads to absorption of pristane in humans [letter] Sjögren B, et al. **Occup Environ Med** 1997 Jan; 54(1):66

Amino acid composition and chemical evaluation of protein quality of cereals as affected by insect infestation. Jood S, et al. **Plant Foods Hum Nutr** 1995 Sep;48(2):159–67

Limits for pesticide residues in infant foods: a safety-based proposal. Schilter B, et al. **Regul Toxicol Pharmacol** 1996 Oct;24(2 Pt 1):126–40 (96 ref.)

Assessment of potential health risks associated with ingesting heavy metals in fish collected from a hazardous-waste contaminated wetland in Louisiana, USA. Tchounwou PB, et al. **Rev Environ Health** 1996 Oct–Dec;11(4):191–203

Estimation of dietary exposure to chemicals: a case study illustrating methods of distributional analyses for food consumption data. Driver JH, et al. **Risk Anal** 1996 Dec; 16(6):763–71

Public perceptions of everyday food hazards: a psychometric study. Fife-Schaw C, et al. **Risk Anal** 1996 Aug; 16(4):487–500

What determines trust in information about food-related risks? Underlying psychological constructs. Frewer LJ, et al. **Risk Anal** 1996 Aug;16(4):473–86

Fishing in a polluted estuary: fishing behavior, fish consumption, and potential risk. May H, et al. **Risk Anal** 1996 Aug;16(4):459–71

Mortality and cancer incidence among women with a high consumption of fatty fish contaminated with persistent organochlorine compounds. Rylander L, et al. **Scand J Work Environ Health** 1995 Dec;21(6):419–26

Contamination by persistent chemicals in food chain and human health. Bro-Rasmussen F. **Sci Total Environ** 1996 Sep;188 Suppl 1:S45–60

Intake of 226Ra, 210Pb and 210Po with food in Poland. Pietrzak-Flis Z, et al. **Sci Total Environ** 1997 Sep 6; 203(2):157–65

Extraction of lead, cadmium and zinc from overglaze decorations on ceramic dinnerware by acidic and basic food substances. Sheets RW. **Sci Total Environ** 1997 Apr 30; 197(1–3):167–75

Modulating effects of flavonoids on food mutagens in human blood and sperm samples in the comet assay. Anderson D, et al. **Teratog Carcinog Mutagen** 1997;17(2):45–58

Possible aluminum content of canned drinks. Abercrombie DE, et al. **Toxicol Ind Health** 1997 Sep–Oct;13(5):649–54

Consortium for the Health Assessment of Great Lakes Sport Fish Consumption. Anderson H, et al. **Toxicol Ind Health** 1996 May–Aug;12(3–4):369–73

The Ojibwa Health Study: fish residue comparisons for Lakes Superior, Michigan, and Huron. Dellinger JA, et al. **Toxicol Ind Health** 1996 May–Aug;12(3–4):393–402

Harmonizing human health studies in the Great Lakes. Hicks HE, et al. **Toxicol Ind Health** 1996 May–Aug; 12(3–4):467–76

Botulinum versus tetanus neurotoxins: why is botulinum neurotoxin but not tetanus neurotoxin a food poison? Singh BR, et al. **Toxicon** 1995 Dec;33(12):1541–7 (48 ref.)

A protein phosphatase 2A inhibition assay for a fast and sensitive assessment of okadaic acid contamination in mussels. Tubaro A, et al. **Toxicon** 1996 Jul;34(7):743–52

Food animal and poultry retroviruses and human health. DiGiacomo RF, et al. **Vet Clin North Am Food Anim Pract** 1997 Mar;13(1):177–90 (81 ref.)

Botulism outbreak associated with poultry litter consumption in three Brazilian cattle herds. Ortolani EL, et al. **Vet Hum Toxicol** 1997 Apr;39(2):89–92

Lead intoxication in rural Albania. Tabaku A, et al. **Vet Hum Toxicol** 1996 Dec;38(6):434–5

Feline neuropathy associated with contaminated food [letter] Wheeler SJ. **Vet Rec** 1996 Sep 28;139(13):323

Chemical euthanasia of horses [letter] Woodward KN, et al. **Vet Rec** 1996 Jun 15;138(24):600

Food safety. Outbreak of Escherichia coli O157 infection. **Wkly Epidemiol Rec** 1997 Jan 17;72(3):14–5 **(Eng, Fre)**

Food safety: a commonly underestimated public health issue. Käferstein FK. **World Health Stat Q** 1997;50(1–2):3–4

On the origin of benzene, toluene, ethylbenzene, and the xylenes in virgin olive oil—further results. Biedermann M, et al. **Z Lebensm Unters Forsch** 1996 Sep;203(3):224–9

EuroResidue III. Third conference on residues of veterinary drugs in food. Ruiter A. **Z Lebensm Unters Forsch** 1996 Sep;203(3):F1

The response of rat serum lipids to diets of varying composition or contaminated with organochlorine pesticides. Boll M, et al. **Z Naturforsch [C]** 1996 Jan–Feb; 51(1–2):91–100

[Importance of the evaluation of food consumption in the risk of exceeding the permissible daily doses for poisons potentially contained in food] Verger P. **Bull Acad Natl Med** 1997 Jan;181(1):127–35; discussion 135–8 (Eng. Abstr.) **(Fre)**

[Antibiotics in animal husbandry (editorial)] Heinzl S. **Med Monatsschr Pharm** 1997 Jun;20(6):145 **(Ger)**

[Investigation and evaluation of fumonisin contamination of native and imported cereals] Meister U, et al. **Z Lebensm Unters Forsch** 1996 Dec;203(6):528–33 (Eng. Abstr.) **(Ger)**

[Nickel food exposure] Roggi C, et al. **Ann Ig** 1997 May–Jun; 9(3):221–7 **(Ita)**

[Tissue distribution of methylsulfonyl metabolites derived from Kanechlor 400 in mice] Haraguchi K, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):157–61 (Eng. Abstr.) **(Jpn)**

[An epidemiologic examination on the prevalence of the periodontal diseases and oral pigmentation in Yusho patients in 1996] Hashiguchi I, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):226–30 (Eng. Abstr.) **(Jpn)**

[Symptoms and blood PCB level among chronic Yusho patients, twenty-five years after outbreak] Hirota Y, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):220–5 (Eng. Abstr.) **(Jpn)**

[Concentrations of PCDDs, PCDFs and coplanar PCBs in blood of 83 patients with Yusho] Iida T, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):169–76 (Eng. Abstr.) **(Jpn)**

[Levels of PCDDs, PCDFs and coplanar PCBs in sebum and blood of Yusho patients] Iida T, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):177–85 (Eng. Abstr.) **(Jpn)**

[The condition of PCBs and PCDFs in the blood of Yusho patients 20 years after the onset] Masuda Y, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):149–56 (Eng. Abstr.) **(Jpn)**

[Dermatological findings in the annual examination of the patients with Yusho in 1995–1996] Nakayama J, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):236–9 (Eng. Abstr.) **(Jpn)**

[Thyroid function in patients with Yusho: 28 year follow-up study] Tsuji H, et al. **Fukuoka Igaku Zasshi** 1997 May; 88(5):231–5 (Eng. Abstr.) **(Jpn)**

[Yearly and seasonal fluctuation of PCB concentration in skin surface lipid] Watanabe M, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):205–6 (Eng. Abstr.) **(Jpn)**

[Elevation of serum creatine kinase in the patients with Kanemi Yusho] Yoshimura T, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):216–9 (Eng. Abstr.) **(Jpn)**

[Mutagens and antimutagens in food products] Durnev AD. **Genetika** 1997 Feb;33(2):165–76 (123 ref.) (Eng. Abstr.) **(Rus)**

[Contents of toxic elements in some raw plant materials] Ivanova TN, et al. **Gig Sanit** 1997 Jan–Feb;(1):21–3 **(Rus)**

[Heavy metals in the soil–plant–man system (review)] Mudryĭ IV. **Gig Sanit** 1997 Jan–Feb;(1):14–7 (23 ref.) **(Rus)**

[Ecological and food safety considerations about products of vegetable origin] Tapia de Daza MS, et al. **Arch Latinoam Nutr** 1994 Dec;44(4):232–41 (75 ref.) (Eng. Abstr.) **(Spa)**

[Color loss evaluation of a dietary formulation in function of temperature, storage time and packaging] Torres A, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):54–8 (Eng. Abstr.) **(Spa)**

[Organochlorine pesticide residues in cow's milk, Nicaragua] Zapata Morán AL, et al. **Bol Oficina Sanit Panam** 1996 Jun;120(6):483–90 (Eng. Abstr.) **(Spa)**

[Mycotoxin-producing fungi in foods] Fernández Pinto VE, et al. **Rev Argent Microbiol** 1996 Jul–Sep;28(3):147–62 (73 ref.) (Eng. Abstr.) **(Spa)**

[Clenbuterol poisoning. Clinical and analytical data on an outbreak in Móstoles, Madrid] Bilbao Garay J, et al. **Rev Clin Esp** 1997 Feb;197(2):92–5 (Eng. Abstr.) **(Spa)**

[PCB in the environment can threaten health (letter)] Hardell L, et al. **Lakartidningen** 1997 Jan 15;94(3):111 **(Swe)**

ANALYSIS

Evaluation of luciferase reporter bacteriophage A511::luxAB for detection of Listeria monocytogenes in contaminated foods. Loessner MJ, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2961–5

In vitro assay of Staphylococcus aureus enterotoxin A activity in food. Rasooly L, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2361–5

Analysis of metals in blue crabs, Callinectes sapidus, from two Connecticut estuaries. Jop KM, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):311–7

Organochlorine pesticide residues in foodstuffs of animal origin in Nigeria. Osibanjo O, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):206–12

Loss of label during processing cotton oil grown with 14C-aldicarb. Tunçbilek AS, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):213–8

Determination of the mycotoxin deoxynivalenol in beer by commercial elisa tests and estimation of the exposure dose from beer for the population in the Czech Republic. Ruprich J, et al. **Cent Eur J Public Health** 1995 Nov; 3(4):224–9

Evaluation of a terrestrial food chain model for estimating foodstuff concentrations of PCDD/Fs. Harrad SJ, et al. **Chemosphere** 1997 Apr;34(8):1723–37

Exposure of laboratory animals to polychlorinated dibenzodioxins and polychlorinated dibenzofurans from commerical rodent chow. Schecter AJ, et al. **Chemosphere** 1996 Feb;32(3):501–8

Orange juice classification with a biologically based neural network. Dettmar HP, et al. **Comput Chem** 1996 Jun; 20(2):261–6

Establishing tolerable dungeness crab (Cancer magister) and razor clam (Siliqua patula) domoic acid contaminant levels. Mariën K. **Environ Health Perspect** 1996 Nov; 104(11):1230–6

Measuring mercury [see comments] Wheeler M. **Environ Health Perspect** 1996 Aug;104(8):826–30. Comment in: Environ Health Perspect 1997 Mar;105(3):266.

Screening of aflatoxins in Shiro and ground red pepper in Addis Ababa. Fufa H, et al. **Ethiop Med J** 1996 Oct; 34(4):243–9

Migration studies from paper and board food packaging materials. 1. Compositional analysis. Castle L, et al. **Food Addit Contam** 1997 Jan;14(1):35–44

Migration studies from paper and board food packaging materials. Part 2. Survey for residues of dialkylamino benzophenone UV-cure ink photoinitiators. Castle L, et al. **Food Addit Contam** 1997 Jan;14(1):45–52

Mineral oil material in canned foods. Grob K, et al. **Food Addit Contam** 1997 Jan;14(1):83–8

Development of an ELISA for maduramicin and determination of the depletion kinetics of maduramicin residues in poultry. Kennedy DG, et al. **Food Addit Contam** 1997 Jan;14(1):27–33

Determination of methamidophos residues in food remnants. Lee WO, et al. **Food Addit Contam** 1996 Aug–Sep; 13(6):687–93

Screening method for the gas chromatographic/mass spectrometric determination of microgram/litre levels of bromate in bottled water. Nyman PJ, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):623–31

Immunochemical assessment of aflatoxin M1 in milk powder consumed by infants in São Paulo, Brazil. Oliveira CA, et al. **Food Addit Contam** 1997 Jan;14(1):7–10

Survey of ethnic foods for mycotoxins. Patel S, et al. **Food Addit Contam** 1996 Oct;13(7):833–41

Control and intake of pesticide residues during 1981–1993 in Finland. Penttilä PL, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):609–21 (45 ref.)

Benzo(a)pyrene in Brazilian vegetable oils. Pupin AM, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):639–45

Analysis of nitro-PAHs in food matrices by on-line reduction and high performance liquid chromatography. Schlemitz S, et al. **Food Addit Contam** 1996 Nov–Dec;13(8):969–77

Determination of hydrolysed fumonisin B1 in alkali-processed corn foods. Scott PM, et al. **Food Addit Contam** 1996 Oct;13(7):823–32

Contents of lead and cadmium in selected fish species consumed in Finland in 1993–1994. Tahvonen R, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):647–54

Measurement of bromate in bottled water by high-performance liquid chromatography with post-column flow reactor detection. Warner CR, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):633–8

Ochratoxin A in table wine and grape-juice: occurrence and risk assessment. Zimmerli B, et al. **Food Addit Contam** 1996 Aug–Sep;13(6):655–68

The transfer of 137Cs from barley to beer. Pröhl G, et al. **Health Phys** 1997 Jan;72(1):111–3

Effects of carbon dioxide on the fate of Listeria monocytogenes, of aerobic bacteria and on the development of spoilage in minimally processed fresh endive. Carlin F, et al. **Int J Food Microbiol** 1996 Sep; 32(1–2):159–72

Assessment of alimentary exposure to Listeria monocytogenes. Hitchins AD. **Int J Food Microbiol** 1996 Jun;30(1–2):71–85

Determination of selenium in infant formula and enteral formula by dry ash graphite furnace atomic absorption spectrometry with deuterium background correction. Cook KK. **J AOAC Int** 1996 Sep–Oct;79(5):1162–6

Organochlorine and organophosphorus pesticide residues in food from Egyptian local markets. Dogheim SM, et al. **J AOAC Int** 1996 Jul–Aug;79(4):949–52

N-nitrosodibenzylamine in boneless hams processed in elastic rubber nettings. Fiddler W, et al. **J AOAC Int** 1997 Mar–Apr;80(2):353–8

TCDD residues in fish and shellfish from U.S. waterways. Firestone D, et al. **J AOAC Int** 1996 Sep–Oct;79(5):1174–83

Analysis of trichothecene mycotoxins in contaminated grains by gas chromatography/matrix isolation/Fourier transform infrared spectroscopy and gas chromatography/mass spectrometry. Mossoba MM, et al. **J AOAC Int** 1996 Sep–Oct;79(5):1116–23

Screening of nonfatty fish for organochlorine pesticide residues by solid-phase extraction cleanup: interlaboratory study. Schenck FJ. **J AOAC Int** 1996 Sep–Oct;79(5):1215–9

Aflatoxin B1 in common Egyptian foods. Selim MI, et al.

J AOAC Int 1996 Sep–Oct;79(5):1124–9

Levels of Cd, Hg, As, Cu, Mn, and Zn in Japanese restaurant and box lunches. Tsuda T, et al. **J AOAC Int** 1996 Jul–Aug; 79(4):972–5

Complementation of direct–injection high–performance liquid chromatography and enzyme–linked immunosorbent assay for the analysis of thiabendazole in fruit juices and concentrates. Bushway RJ. **J Chromatogr A** 1996 Nov 22; 754(1–2):431–5

Chromatographic methods for the determination of pyrethrin and pyrethroid pesticide residues in crops, foods and environmental samples. Chen ZM, et al.
J Chromatogr A 1996 Nov 22;754(1–2):367–95 (226 ref.)

Extraction of maleic hydrazide residues from potato crisps and their determination using high–performance liquid chromatography with UV and atmospheric pressure chemical ionisation mass spectrometric detection. Lewis DJ, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):391–6

Official multiresidue methods of pesticide analysis in vegetables, fruits and soil. Motohashi N, et al.
J Chromatogr A 1996 Nov 22;754(1–2):333–46 (64 ref.)

Chromatographic techniques in the analysis of organochlorine pesticide residues. Mukherjee I, et al.
J Chromatogr A 1996 Nov 22;754(1–2):33–42 (87 ref.)

Pesticide residue analysis in fresh produce by gas chromatography–tandem mass spectrometry. Schachterle S, et al. **J Chromatogr A** 1996 Nov 22;754(1–2):411–22

Pesticide residue analyses in plant material by chromatographic methods: clean–up procedures and selective detectors. Tekel J, et al. **J Chromatogr A** 1996 Nov 22;754(1–2):397–410 (99 ref.)

Off–line high–performance liquid chromatography and solid–phase extraction clean–up for confirmation of pesticide residues in fresh produce by gas chromatography–mass spectrometry. Ting KC, et al.
J Chromatogr A 1996 Nov 22;754(1–2):455–62

Determination of pesticide residues in fruit and vegetables. Torres CM, et al. **J Chromatogr A** 1996 Nov 22; 754(1–2):301–31 (185 ref.)

Determination of polycyclic aromatic hydrocarbons in edible oils and fats by on–line donor–acceptor complex chromatography and high–performance liquid chromatography with fluorescence detection. van Stijn F, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):263–73

Automated on–line gel permeation chromatography–gas chromatography for the determination of organophosphorus pesticides in olive oil. Vreuls JJ, et al.
J Chromatogr A 1996 Oct 25;750(1–2):275–86

Dietary exposure from pesticide application on farms in the Agricultural Health Pilot Study. Melnyk LJ, et al.
J Expo Anal Environ Epidemiol 1997 Jan–Mar;7(1):61–80

Effects of commonly used cooking practices on total mercury concentration in fish and their impact on exposure assessments. Morgan JN, et al.
J Expo Anal Environ Epidemiol 1997 Jan–Mar;7(1):119–33

Method for measuring base/neutral and carbamate pesticides in personal dietary samples. Sheldon LS, et al.
J Expo Anal Environ Epidemiol 1997 Jan–Mar;7(1):37–59

Analytical considerations for trace determinations of drugs in breast milk. Rossi DT, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):495–504 (62 ref.)

Supercritical fluid extraction method development for extraction of an experimental HIV protease inhibitor drug from animal feed. Roston DA, et al.
J Pharm Biomed Anal 1997 Jan;15(4):461–8

Sterigmatocystin: incidence, fate and production by Aspergillus versicolor in Ras cheese. Abd Alla EA, et al. **Nahrung** 1996 Dec;40(6):310–3

Effect of Callosobruchus chinensis (L.) (Coleoptera: Bruchidae) on carbohydrate content of chickpea, green gram and pigeon pea. Modgil R, et al. **Nahrung** 1996 Feb; 40(1):41–3

Changes in phenol oxidase and peroxidase levels in cocoyam tubers of different postharvest ages infected by Sclerotium rolfsii sacc. Ohazurike NC, et al. **Nahrung** 1996 Feb; 40(1):25–7

Mold spectrum of four cereal brands of the German crop 1995. Weidenbörner M, et al. **Nahrung** 1997 Jun; 41(3):139–41

Pesticide residues in milk and cheeses from Greece. Mallatou H, et al. **Sci Total Environ** 1997 Mar 20;196(2):111–7

Cadmium levels in wine, beer and other alcoholic beverages: possible sources of contamination. Mena C, et al.
Sci Total Environ 1996 Mar 29;181(3):201–8

Estimation of dietary intake of arsenic in the general population of the Republic of Croatia. Sapunar–Postružnik J, et al. **Sci Total Environ** 1996 Nov 18;191(1–2):119–23

Lead content of rice collected from various areas in the world. Zhang ZW, et al. **Sci Total Environ** 1996 Nov 18; 191(1–2):169–75

Food–borne nitrates and nitrites as a cause of methemoglobinemia. Chan TY.
Southeast Asian J Trop Med Public Health 1996 Mar; 27(1):189–92 (24 ref.)

Public health impact on drug residues in animal tissues. Paige JC, et al. **Vet Hum Toxicol** 1997 Jun;39(3):162–9 (22 ref.)

[Dietary lead exposure] Roggi C, et al. **Ann Ig** 1997 Jan–Feb; 9(1):59–65 **(Ita)**

[The lead concentration in the converted and special–formula milks used in infant feeding] Guidi B, et al.
Pediatr Med Chir 1996 May–Jun;18(3):275–7 (Eng. Abstr.) **(Ita)**

[Annual daily intakes of Hg, PCB and arsenic from fish and shellfish and comparative survey of their residue levels in fish by body weight] Ikarashi A, et al.
Eisei Shikenjo Hokoku 1996;(114):43–7 (Eng. Abstr.) **(Jpn)**

[Mercury in mushrooms and underlying substrate from the area of Polanowice in the county of Gubin, district of Zielona G'ora] Falandysz J, et al.
Rocz Panstw Zakl Hig 1996;47(4):377–88 (Eng. Abstr.) **(Pol)**

[Residues of chlorinated hydrocarbons in cheeses] Niewiadowska A, et al. **Rocz Panstw Zakl Hig** 1996; 47(4):371–6 (Eng. Abstr.) **(Pol)**

[Evaluation of a detection method for determination of aflatoxins in peanuts using immunoaffinity chromatography coupled fluorimetry detection] Postupolski J, et al.
Rocz Panstw Zakl Hig 1996;47(3):277–83 (Eng. Abstr.) **(Pol)**

[The heavy metal problem in food products and the approaches to using raw foodstuffs with a high content of heavy metals (a review)] Karpliuk IA, et al.
Vopr Pitan 1996;(1):22–6 (25 ref.) (Eng. Abstr.) **(Rus)**

LEGISLATION & JURISPRUDENCE

Peace of mind about pesticides [news]
Environ Health Perspect 1996 Dec;104(12):1271

Worldwide regulations for mycotoxins 1995. A compendium. **FAO Food Nutr Pap** 1997;64:1–43

Dietary intake estimates as a means to the harmonization of maximum residue levels for veterinary drugs. II. Proposed application to the Free Trade Agreement between the United States and Canada. Fitzpatrick SC, et al. **Regul Toxicol Pharmacol** 1996 Oct;24(2 Pt 1):177–83

Food contact substances and the need for food safety reform. Heckman JH. **Regul Toxicol Pharmacol** 1996 Dec; 24(3):236–9

Public health impact on drug residues in animal tissues. Paige JC, et al. **Vet Hum Toxicol** 1997 Jun;39(3):162–9 (22 ref.)

PREVENTION & CONTROL

Weighing contaminant risks and nutrient benefits of country food in Nunavik. Dewailly E, et al. **Arctic Med Res** 1996; 55 Suppl 1:13–9

Prophylactic measures in order to reduce contamination of pig carcasses with Yersinia enterocolitica during slaughter. Nesbakken T, et al. **Contrib Microbiol Immunol** 1995; 13:62–6

Fate of low temperature and acid–adapted Yersinia enterocolitica and Listeria monocytogenes that contaminate lactic acid decontaminated meat during chill storage. van Netten P, et al. **J Appl Microbiol** 1997 Jun; 82(6):769–79

Assessment of microwave sterilization of foods using intrinsic chemical markers. Prakash A, et al.
J Microw Power Electromagn Energy 1997;32(1):50–7

Safe lead abatement at a major food processing plant. Nace P. **Occup Health Saf** 1996 Oct;65(10):194–6

Optimum duration of feed and water removal prior to processing in order to reduce the potential for fecal contamination in turkeys. Duke GE, et al. **Poult Sci** 1997 Mar;76(3):516–22

Effect of cloacal plugging on microbial recovery from partially processed broilers. Musgrove MT, et al.
Poult Sci 1997 Mar;76(3):530–3

Are biological antagonists an alternative to synthetic fungicides for preventing postharvest diseases of fruits and vegetables? Droby S, et al. **Rev Environ Health** 1996 Jan–Jun;11(1–2):71–7 (47 ref.)

Restoring confidence in beef: towards a European solution [news] **Vet Rec** 1996 Jun 29;138(26):631–2

Clean livestock at slaughter [letter] Longstreeth JR, et al. **Vet Rec** 1997 Mar 1;140(9):239

Establishment of microbiological safety criteria for foods in international trade. International Commission on Microbiological Specifications for Foods.
World Health Stat Q 1997;50(1–2):119–23 (2 ref.)

Improving the safety of street–vended food. Moy G, et al.
World Health Stat Q 1997;50(1–2):124–31 (8 ref.)

Foodborne listeriosis. Rocourt J, et al.
World Health Stat Q 1997;50(1–2):67–73 (27 ref.)

[80 percent of infections originate in the kitchen. 'Everything is everywhere, man regulates' (interview by S. Deleu and W. Sybesma)] Oosterom H. **Tijdschr Diergeneeskd** 1996 Dec 15;121(24):719–21 **(Dut)**

[Prevention of Listeria monocytogenes contamination on dairy farms and in the cheese industry] Stahl V, et al.
Pathol Biol (Paris) 1996 Nov;44(9):816–24 (Eng. Abstr.) **(Fre)**

[Survival of Listeria monocytogenes in milk fermented with a starter culture for making yogurt] Zúñiga–Estrada A, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):257–65 (Eng. Abstr.) **(Spa)**

STATISTICS & NUMERICAL DATA

Toxicologists versus toxicological disasters: toxic oil syndrome, clinical aspects. Gómez de la Cámara A, et al. **Arch Toxicol Suppl** 1997;19:31–40 (40 ref.)

A statistical survey of dioxin–like compounds in United States beef: a progress report. Winters D, et al. **Chemosphere** 1996 Feb;32(3):469–78

Evaluation of the population distribution of dietary contaminant exposure in an Arctic population using Monte Carlo statistics. Chan HM, et al.
Environ Health Perspect 1997 Mar;105(3):316–21

Aflatoxin B1 contamination in maize samples collected from different geographical regions of India—a multicentre study. Bhat RV, et al. **Food Addit Contam** 1997 Feb–Mar; 14(2):151–6

Pesticide residue concentrations in the Belgian total diet, 1991–1993. Dejonckheere W, et al. **J AOAC Int** 1996 Mar–Apr;79(2):520–8

Organohalogen and organophosphorus pesticides in mixed feed rations: findings from FDA's domestic surveillance during fiscal years 1989–1994. Lovell RA, et al.
J AOAC Int 1996 Mar–Apr;79(2):544–8

Occurrence of pesticide residues in selected agricultural food commodities available in Canada. Neidert E, et al.
J AOAC Int 1996 Mar–Apr;79(2):549–66

Development of a Dietary Exposure Potential Model for evaluating dietary exposure to chemical residues in food. Tomerlin JR, et al. **J Expo Anal Environ Epidemiol** 1997 Jan–Mar;7(1):81–101

Dietary intake of fish contaminated with persistent organochlorine compounds in relation to low birthweight. Rylander L, et al. **Scand J Work Environ Health** 1996 Aug; 22(4):260–6

Monitoring and assessment of dietary exposure to chemical contaminants. Baht RV, et al. **World Health Stat Q** 1997; 50(1–2):132–49 (82 ref.)

Global estimation of foodborne diseases. Motarjemi Y, et al.
World Health Stat Q 1997;50(1–2):5–11 (7 ref.)

[Blood and hair arsenic, lead and cadmium analysis of adults and correlation analysis with special reference to eating habits and other behavioral influences] Paulsen F, et al.
Gesundheitswesen 1996 Aug–Sep;58(8–9):459–64 (Eng. Abstr.) **(Ger)**

FOOD CONTAMINATION, RADIOACTIVE

A study of radioactivities in six types of fish consumed in Hong Kong. Yu KN, et al. **Appl Radiat Isot** 1997 Apr; 48(4):515–9

Developing historical food production and consumption data for 131I dose estimates: the Hanford experience. Anderson DM, et al. **Health Phys** 1996 Oct;71(4):578–87

Long term radiocesium contamination of fruit trees following the Chernobyl accident. Antonopoulos–Domis M, et al.
Health Phys 1996 Dec;71(6):910–4

Impact of the 235U series on doses from intakes of natural uranium and decay progeny. Lowe LM. **Health Phys** 1997 Oct;73(4):694–5

Adaptation of ECOSYS–87 to Hong Kong environmental conditions. Poon CB, et al. **Health Phys** 1997 Jun; 72(6):856–64

ECOSYS–87: model calculations of the activity in cattle meat related to deposition time and feeding regimes after a nuclear fallout. Riesen TK, et al. **Health Phys** 1996 Dec; 71(6):863–9

Development and testing of a revised dynamic model of radiocaesium transfer to sheep tissues. Crout NM, et al.
Radiat Environ Biophys 1996 Feb;35(1):19–24

[The mutagenic action of radioactive contaminants of feed and food products on strains TA98 and TA100 of Salmonella typhimurium] Matseliukh BP, et al.
Mikrobiol Z 1996 May–Jun;58(3):49–53 (Eng. Abstr.) **(Ukr)**

ANALYSIS

The chemical speciation of 137Cs in sheepmeat. Pang TY, et al. **Appl Radiat Isot** 1996 Sep–Oct;47(9–10):947–50

137Cs content in the fruit bodies of various Tuber species. Lorenzelli R, et al. **Health Phys** 1996 Dec;71(6):956–9

Use of large gamma–ray detector to measure 131I in milk and water at low levels. Rosson R, et al. **Health Phys** 1996 Nov;71(5):770–2

Determination of long–life radiocesiums Cs–134 and Cs–137 in food by gamma–ray spectrometry: summary of collaborative study. Beljaars PR, et al. **J AOAC Int** 1997 May–Jun;80(3):545–8

The use of dietary calcium intake of dairy ruminants to predict the transfer coefficient of radiostrontium to milk. Howard BJ, et al. **Radiat Environ Biophys** 1997 Feb; 36(1):39–43

Long–term decline of radiocesium concentration in seafood from the Ligurian sea (northern Italy) after Chernobyl. Gallelli G, et al. **Sci Total Environ** 1997 Mar 20; 196(2):163–70

Current and potential doses from Arctic seafood consumption. Sazykina TG, et al. **Sci Total Environ** 1997 Aug 25;202(1–3):57–65

[Changes in the specific activity of radionuclides during the technological processing of nettle for food purposes] Ivanova TN, et al. **Gig Sanit** 1996 May–Jun;(3):31–3 **(Rus)**

PREVENTION & CONTROL

The effect of sustained release boli with ammoniumiron(III)–hexacyanoferrate(II) on radiocesium accumulation in sheep grazing contaminated pasture. Hansen HS, et al. **Health Phys** 1996 Nov;71(5):705–12

A review of countermeasures to reduce radioiodine in milk

of dairy animals. Howard BJ, et al. **Health Phys** 1996 Nov; 71(5):661–73

Reduction of cesium concentration in ovine tissues following treatment with Prussian Blue labeled with 59Fe. Ioannides KG, et al. **Health Phys** 1996 Nov;71(5):713–8

Long–term effective decrease of cesium concentration in foodstuffs after nuclear fallout. Mück K. **Health Phys** 1997 May;72(5):659–73 (52 ref.)

Thermodynamic approach to the selection of polyuronide sequestrants for preventive and medicinal nutrition. Braudo EE, et al. **Nahrung** 1996 Aug;40(4):205–8

STATISTICS & NUMERICAL DATA

Radioecology and and the health of the indigenous inhabitants in Chukotka. Doudarev AA, et al. **Arctic Med Res** 1996;55 Suppl 1:32–4 (1 ref.)

FOOD DEPRIVATION

see related
FASTING
HUNGER
STARVATION

Angiotensin II reduces alcohol intake and choice in water– or food–restricted rats. Kulkosky PJ, et al. **Alcohol** 1996 Jul–Aug;13(4):359–63

Pi–class glutathione–S–transferase–positive hepatocytes in aging B6C3F1 mice undergo apoptosis induced by dietary restriction. Muskhelishvili L, et al. **Am J Pathol** 1996 Nov; 149(5):1585–91

Adaptations of intestinal nutrient transport to chronic caloric restriction in mice. Casirola DM, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G192–200

Insulin secretion in adult rats that had experienced different underfeeding patterns during their development. Martín MA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E634–40

Effects of intermittent feed deprivation, intermittent feed deprivation with ranitidine administration, and stall confinement with ad libitum access to hay on gastric ulceration in horses. Murray MJ, et al. **Am J Vet Res** 1996 Nov;57(11):1599–603

Ponderostat: hoarding behavior satisfies the condition for a lipostat in the rat. Cabanac M, et al. **Appetite** 1996 Dec; 27(3):251–61

Effects of deprivation level on humans' self–control for food reinforcers. Kirk JM, et al. **Appetite** 1997 Jun;28(3):215–26

Negative feedback potency of estradiol is increased in orchidectomized sheep during chronic nutrient restriction. Beckett JL, et al. **Biol Reprod** 1997 Aug;57(2):408–14

Moderate and severe nutrient restriction has divergent effects on gonadotroph function in orchidectomized sheep. Beckett JL, et al. **Biol Reprod** 1997 Aug;57(2):415–9

Immunization against growth hormone releasing factor or chronic feed restriction initiated at 3.5 months of age reduces ovarian response to pulsatile administration of gonadotropin–releasing hormone at 6 months of age and delays onset of puberty in heifers. Schoppee PD, et al. **Biol Reprod** 1996 Jul;55(1):87–98

Effects of corticosteroid synthesis inhibitors on the sensitization of reward by food restriction. Abrahamsen GC, et al. **Brain Res** 1996 Jul 8;726(1–2):39–48

Somatostatin release as measured by in vivo microdialysis: circadian variation and effect of prolonged food deprivation. Ishikawa M, et al. **Brain Res** 1997 Feb 28; 749(2):226–31

Electrographic patterns of postprandial sleep after food deprivation or intraventricular adrenaline injections in pigeons. Dario AJ, et al. **Brain Res Bull** 1996;39(4):249–54

Chronic food restriction and streptozotocin–induced diabetes differentially alter prodynorphin mRNA levels in rat brain regions. Berman Y, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):25–30

Chicken parathyroid hormone gene expression in response to gastrin, omeprazole, ergocalciferol, and restricted food intake. Gagnemo–Persson R, et al. **Calcif Tissue Int** 1997 Sep;61(3):210–5

Food deprivation increases the rat's preference for a fatty flavor over a sweet taste. Lucas F, et al. **Chem Senses** 1996 Apr;21(2):169–79

Effects of diabetes and food deprivation on shivering activity during progressive hypothermia in the rat. Kilgour RD, et al. **Comp Biochem Physiol A Physiol** 1996 Jun; 114(2):159–65

Effects of food deprivation in early pregnancy on the development of ovaries and adrenals in female progeny of the water vole (Arvicola terrestris). Yakovleva TV, et al.
Comp Biochem Physiol C Pharmacol Toxicol Endocrinol 1997 Jan;116(1):103–9

Reproductive toxicology. Feed restriction in Swiss CD–1 mice. **Environ Health Perspect** 1997 Feb;105 Suppl 1:377–8

Reproductive toxicology. Feed restriction in Swiss CD–1 mice. **Environ Health Perspect** 1997 Feb;105 Suppl 1:379–80

Reproductive toxicology. Feed restriction in rats.
Environ Health Perspect 1997 Feb;105 Suppl 1:381–2

Consequences of food restriction on short–term growth variation and on plasma circulating hormones in Oreochromis niloticus in relation to sex. Toguyeni A, et al. **Gen Comp Endocrinol** 1996 Aug;103(2):167–75

Effect of inducers on hepatic microsomal mixed function oxidase system of male rats during food restriction. Ahmed RS, et al. **Indian J Exp Biol** 1997 Jan;35(1):46–9

Effects of short–term food deprivation and chronic dietary restraint on the selective processing of appetitive–related cues. Stewart SH, et al. **Int J Eat Disord** 1997 Mar; 21(2):129–35

Five–year longitudinal study on limited food consumption and development of osteoarthritis in coxofemoral joints of dogs. Kealy RD, et al. **J Am Vet Med Assoc** 1997 Jan 15;210(2):222–5

Effect of food restriction on life span and immune functions in long–lived Fischer–344 x Brown Norway F1 rats. Fernandes G, et al. **J Clin Immunol** 1997 Jan;17(1):85–95

Effect of method of delivery of propylene glycol on plasma metabolites of feed–restricted cattle. Christensen JO, et al. **J Dairy Sci** 1997 Mar;80(3):563–8

Additive effects of lactation and food restriction to increase hypothalamic neuropeptide Y mRNA in rats. Wilding JP, et al. **J Endocrinol** 1997 Mar;152(3):365–9

Modulation by food restriction of intracellular calcium signaling in parotid acinar cells of aging Fischer 344 rats. Olsen JG, et al. **J Gerontol A Biol Sci Med Sci** 1997 May; 52(3):B152–8

Food or water deprivation modulate nitric oxide synthase (NOS) activity and gene expression in rat hypothalamic neurones: correlation with neurosecretory activity? O'Shea RD, et al. **J Neuroendocrinol** 1996 Jun;8(6):417–25

The effects of diet, overfeeding and moderate dietary restriction on Sprague–Dawley rat survival, disease and toxicology. Keenan KP, et al. **J Nutr** 1997 May;127(5 Suppl):851S–856S (43 ref.)

Restriction of nutrition in utero selectively inhibits gastrointestinal growth in fetal sheep. Trahair JF, et al. **J Nutr** 1997 Apr;127(4):637–41

Protein synthesis and degradation change rapidly in response to food intake in muscle of food–deprived mice. Yoshizawa F, et al. **J Nutr** 1997 Jun;127(6):1156–9

Effects of intermittent food restriction and refeeding on energy efficiency and body fat deposition in sedentary and exercised rats. Lim K, et al.
J Nutr Sci Vitaminol (Tokyo) 1996 Oct;42(5):449–68

Effect of somatostatin–28 on growth hormone response to growth hormone–releasing hormone—impact of aging and lifelong dietary restriction. Shimokawa I, et al.
Neuroendocrinology 1997 May;65(5):369–76

Melanin–concentrating hormone is a potent anorectic peptide regulated by food–deprivation and glucopenia in the rat. Presse F, et al. **Neuroscience** 1996 Apr;71(3):735–45

Female sexual behavior is inhibited by short– and long–term food restriction. Gill CJ, et al. **Physiol Behav** 1997 Mar; 61(3):387–94

Food deprivation and food–delay effects on the development of adjunctive drinking. Lamas E, et al. **Physiol Behav** 1997 Feb;61(2):153–8

Activity measures in rhesus monkeys on long–term calorie restriction. Weed JL, et al. **Physiol Behav** 1997 Jul; 62(1):97–103

Relationship between feed withdrawal and viscera condition of broilers. Northcutt JK, et al. **Poult Sci** 1997 Feb; 76(2):410–4

Oral squamous cell carcinoma in ad libitum–fed and food–restricted Brown–Norway rats. Thurman JD, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):217–24

PHYSIOLOGY

Food hoarding is increased by pregnancy, lactation, and food deprivation in Siberian hamsters. Bartness TJ.
Am J Physiol 1997 Jan;272(1 Pt 2):R118–25

Effects of food deprivation on induction of neural progestin receptors by estradiol in Syrian hamsters. Du Y, et al.
Am J Physiol 1996 May;270(5 Pt 2):R978–83

Chronic food restriction and acute food deprivation decrease mRNA levels of opioid peptides in arcuate nucleus. Kim EM, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1019–24

Short–day weight loss and effect of food deprivation on hypothalamic NPY and CRF mRNA in Djungarian hamsters. Mercer JG, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R768–76

Dissociation of paraventricular NPY release and plasma corticosterone levels in rats under food deprivation. Yoshihara T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E239–45

Effects of bis(maltolato)oxovanadium(IV) are distinct from food restriction in STZ–diabetic rats. Yuen VG, et al.
Am J Physiol 1997 Jan;272(1 Pt 1):E30–5

Distribution of energy between food–restricted dams and offspring. Luz J, et al. **Ann Nutr Metab** 1996;40(3):165–74

The effects of short–term food deprivation on caloric intake in eating–disordered subjects. Telch CF, et al. **Appetite** 1996 Jun;26(3):221–33

Effects of ovarian steroids on glucose metabolism in uterus horns isolated from underfed rats. Influence of castration. Casalino SM, et al. **Arch Physiol Biochem** 1996;104(2):152–6

Response of broilers to deprivation of food and water for 24 hours. Knowles TG, et al. **Br Vet J** 1995 Mar–Apr; 151(2):197–202

NMDA–induced lesions of the nucleus accumbens or the ventral pallidum increase the rewarding efficacy of food to deprived rats. Johnson PI, et al. **Brain Res** 1996 May 25;722(1–2):109–17

Acute pharmacological blockade of corticosterone secretion reverses food restriction–induced sensitization of the locomotor response to cocaine. Marinelli M, et al.
Brain Res 1996 Jun 17;724(2):251–5

Effects of tryptophan and/or acute running on extracellular 5–HT and 5–HIAA levels in the hippocampus of food–deprived rats. Meeusen R, et al. **Brain Res** 1996 Nov 18;740(1–2):245–52

mu–Opioid receptor binding in chicken brain in relation to degree of food restriction: a quantitative autoradiographic study. Stewart MG, et al. **Brain Res** 1996 Dec 2; 742(1–2):343–6

Increased pituitary growth hormone–releasing factor (GRF) receptor messenger ribonucleic acid expression in food–deprived rats. Sugihara H, et al. **Brain Res** 1996 Dec 2;742(1–2):355–8

Chronic food restriction alters mu and kappa opioid receptor binding in the parabrachial nucleus of the rat: a quantitative autoradiographic study. Wolinsky TD, et al. **Brain Res** 1996 Jan 15;706(2):333–6

Diabetes alters mu and kappa opioid binding in rat brain regions: comparison with effects of food restriction. Wolinsky TD, et al. **Brain Res** 1996 Oct 28;738(1):167–71

Effect of prenatal protein deprivation on postnatal granule cell generation in the hippocampal dentate gyrus. Debassio WA, et al. **Brain Res Bull** 1996;41(6):379–83

Downregulation of corticotropin–releasing factor mRNA, but not vasopressin mRNA, in the paraventricular hypothalamic nucleus of rats following nutritional stress. Hwang BH, et al. **Brain Res Bull** 1997;43(5):509–14

Food deprivation and hypothermia in desynchronized sleep–deprived rats. Hoshino K. **Braz J Med Biol Res** 1996 Jan;29(1):41–6

Effects of long–term dietary restriction on cardiovascular function and plasma catecholamines in the rat. Hilderman T, et al. **Cardiovasc Drugs Ther** 1996 Jun;10 Suppl 1:247–50

Modification of catecholamine–induced changes in heart function by food restriction in rats. McKnight KA, et al.
Cardiovasc Drugs Ther 1996 Jun;10 Suppl 1:239–46

Cardiac nuclear encoded cytochrome c oxidase subunits are decreased with copper restriction but not iron restriction: gene expression, protein synthesis and heat shock protein aspects. Medeiros DM, et al.
Comp Biochem Physiol A Physiol 1997 May;117(1):77–87

Erythropoietin in 29 men during and after prolonged physical stress combined with food and fluid deprivation. Gunga HC, et al. **Eur J Appl Physiol** 1996;73(1–2):11–6

Gender–specific changes in thyroid hormone–glucuronidating enzymes in rat liver during short–term fasting and long–term food restriction. Visser TJ, et al. **Eur J Endocrinol** 1996 Oct;135(4):489–97

Effects of peripheral 5–HT2 and 5–HT3 receptor agonists on food intake in food–deprived and 2–deoxy–D–glucose–treated rats. Sugimoto Y, et al.
Eur J Pharmacol 1996 Nov 28;316(1):15–21

Starvation increases the number of coliform bacteria in the caecum and induces bacterial adherence to caecal epithelium in rats. Nettelbladt CG, et al. **Eur J Surg** 1997 Feb;163(2):135–42

Development of enzyme immunoassays for 3,5,3'–triiodo–L–thyronine and L–thyroxine: time–course studies on the effect of food deprivation on plasma thyroid hormones in two marine teleosts, sea bass (Dicentrarchus labrax L.) and sea bream (Sparus aurata L.). Cerdá–Reverter JM, et al. **Gen Comp Endocrinol** 1996 Sep; 103(3):290–300

Effects of food deprivation and a stressor on head pain. Martin PR, et al. **Health Psychol** 1997 Jul;16(4):310–8

Regulation of lipolysis in fat cells of obese women during long–term hypocaloric diet. Hellström L, et al.
Int J Obes Relat Metab Disord 1996 Aug;20(8):745–52

Effect of chronic intracerebroventricular infusion of insulin on brown adipose tissue activity in fed and fasted rats. Müller C, et al. **Int J Obes Relat Metab Disord** 1997 Jul; 21(7):562–6

Serum leptin concentration is associated with total body fat mass, but not abdominal fat distribution. Shimizu H, et al.
Int J Obes Relat Metab Disord 1997 Jul;21(7):536–41

Physical performance and metabolic recovery among lean, healthy men following a prolonged energy deficit. Nindl BC, et al. **Int J Sports Med** 1997 Jul;18(5):317–24

Reducing milk production in ewes at weaning using restricted feeding and methscopolamine bromide. Aaron DK, et al.
J Anim Sci 1997 Jun;75(6):1434–42

Metabolic changes during the transition from the fed to the acute feed–deprived state in prepuberal and mature gilts. Barb CR, et al. **J Anim Sci** 1997 Mar;75(3):781–9

Effect of clenbuterol on growth and body composition during food restriction in rats. Cardoso LA, et al. **J Anim Sci** 1996 Sep;74(9):2245–52

Acute effects of short–term feed deprivation and refeeding on circulating concentrations of metabolites, insulin–like growth factor I, insulin–like growth factor binding proteins, somatotropin, and thyroid hormones in adult geldings. Christensen RA, et al. **J Anim Sci** 1997 May; 75(5):1351–8

Effect of halothane genotype, breed, feed withdrawal, and lairage on pork quality of belgian slaughter pigs. De Smet SM, et al. **J Anim Sci** 1996 Aug;74(8):1854–63

Effects of B vitamin injections on plasma B vitamin concentrations of feed–restricted beef calves infected with bovine herpesvirus–1. Dubeski PL, et al. **J Anim Sci** 1996 Jun;74(6):1358–66

Effect of duration of feed withdrawal and transportation time on muscle characteristics and quality in Friesian–Holstein calves. Fernandez X, et al. **J Anim Sci** 1996 Jul;

74(7):1576–83
Influence of thermal and dietary stress on immune response of rabbits. Franci O, et al. **J Anim Sci** 1996 Jul;74(7):1523–9
Effect of feeding and feed deprivation on plasma concentrations of prolactin, insulin, growth hormone, and metabolites in horses. Nadal MR, et al. **J Anim Sci** 1997 Mar;75(3):736–44
Dietary protein and energy restriction in mares: rapid changes in plasma metabolite and hormone concentrations during dietary alteration. Sticker LS, et al. **J Anim Sci** 1996 Jun;74(6):1326–35
Mortality rate and longevity of food-restricted exercising male rats: a reevaluation. Holloszy JO. **J Appl Physiol** 1997 Feb;82(2):399–403
Phase-advanced daily rhythms of melatonin, body temperature, and locomotor activity in food-restricted rats fed during daytime. Challet E, et al. **J Biol Rhythms** 1997 Feb;12(1):65–79
Hepatic gene expression of apolipoprotein B100 during early lactation in underfed, high producing dairy cows. Gruffat D, et al. **J Dairy Sci** 1997 Apr;80(4):657–66
Effect of chronic food restriction on pulsatile luteinizing hormone secretion and hypothalamic neuropeptide Y gene expression in castrate male sheep. Adam CL, et al. **J Endocrinol** 1997 Feb;152(2):329–37
Moderate food restriction reduces serum IGF-I and alters circulating IGF-binding protein profiles in lactating rats. Monaco MH, et al. **J Endocrinol** 1997 Feb;152(2):303–16
Effects of long-term food reduction on the hypothalamus-pituitary-thyroid axis in male and female rats. van Haasteren GA, et al. **J Endocrinol** 1996 Aug; 150(2):169–78
Effects of GH and IGF-I administration on GHRH and somatostatin mRNA levels: I. A study on ad libitum fed and starved adult male rats. Ghigo MC, et al. **J Endocrinol Invest** 1997 Mar;20(3):144–50
Foraging by food deprived larvae of Neobellieria bullata (Diptera: Sarcophagidae). Christopherson C, et al. **J Forensic Sci** 1997 Jan;42(1):71–3
Effects of aging and food restriction on alpha 1-adrenergic receptors and G-protein in the rat parotid gland. Chen C, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):B103–10
Food restriction reduces aflatoxin B1 (AFB1)-DNA adduct formation, AFB1-glutathione conjugation, and DNA damage in AFB1-treated male F344 rats and B6C3F1 mice. Chou MW, et al. **J Nutr** 1997 Feb;127(2):210–7
Food restriction reduces sympathetic support of blood pressure in spontaneously hypertensive rats. Overton JM, et al. **J Nutr** 1997 Apr;127(4):655–60
Rates of mitochondrial and peroxisomal beta-oxidation of palmitate change during postnatal development and food deprivation in liver, kidney and heart of pigs. Yu XX, et al. **J Nutr** 1997 Sep;127(9):1814–21
Effects of food deprivation and adrenalectomy on CYP3A induction by RU486 in female rats. Cheesman MJ, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):447–54
Short-term caloric restriction augments age-related decreases in gastrin content and release. Chu KU, et al. **Mech Ageing Dev** 1996 May 24;87(1):25–33
A tumor preventive effect of dietary restriction is antagonized by a high housing temperature through deprivation of torpor. Koizumi A, et al. **Mech Ageing Dev** 1996 Nov 29;92(1):67–82
Food restriction increases the protection of erythrocytes against the hemolysis induced by peroxyl radicals. Pieri C, et al. **Mech Ageing Dev** 1996 May 24;87(1):15–23
Neuropeptide Y treatment and food deprivation increase cyclic AMP response element-binding in rat hypothalamus. Sheriff S, et al. **Mol Pharmacol** 1997 Apr;51(4):597–604
Effects of food deprivation on the GH axis: immunocytochemical and molecular analysis. Brogan RS, et al. **Neuroendocrinology** 1997 Feb;65(2):129–35
Changes in rat melanin-concentrating hormone and dynorphin messenger ribonucleic acids induced by food deprivation. Hervé C, et al. **Neuropeptides** 1997 Jun; 31(3):237–42
Effects of food deprivation on midbrain 5-HT1A autoreceptors in Lewis and SHR rats. Chaouloff F, et al. **Neuropharmacology** 1997 Apr-May;36(4–5):483–8
Food restriction decreases serotonin and its synthesis rate in the hypothalamus. Haleem DJ, et al. **Neuroreport** 1996 Apr 26;7(6):1153–6
Increase of urocortin-like immunoreactivity in the rat supraoptic nucleus after dehydration but not food deprivation. Hara Y, et al. **Neurosci Lett** 1997 Jun 20; 229(1):65–8
Pre-stress carbohydrate solution prevents fatal outcome after hemorrhage in 24-hour food-deprived rats. Nettelbladt CG, et al. **Nutrition** 1996 Oct;12(10):696–9
Interactions between vasopressin and food restriction on stress-induced analgesia. Wideman CH, et al. **Peptides** 1996;-17(1):63–6
Morphological and metabolic changes associated with large differences in daily food intake in crossed-intestines rats. Koopmans HS, et al. **Physiol Behav** 1997 Jul;62(1):129–36
A contact eatometer suitable for feeding restriction schedules. Lax P, et al. **Physiol Behav** 1996 Jun;59(6):1179–83
Effects of central oxytocin administration on intraoral intake of glucose in deprived and nondeprived rats. Lokrantz CM, et al. **Physiol Behav** 1997 Aug;62(2):347–52
Food deprivation and the facilitatory effects of estrogen in female hamsters: the LH surge and locomotor activity. Mangels RA, et al. **Physiol Behav** 1996 Sep;60(3):837–43
Relationships of consumer characteristics and food deprivation to food purchasing behavior. Mela DJ, et al. **Physiol Behav** 1996 Nov;60(5):1331–5
Hypothalamic NPY and CRF gene expression in the food-deprived Syrian hamster. Mercer JG, et al. **Physiol Behav** 1996 Jul;60(1):121–7
Phase shifts to refeeding in the Syrian hamster mediated by running activity. Mistlberger RE, et al. **Physiol Behav** 1997 Feb;61(2):273–8
Changes in responsiveness to serotonin on rat ventromedial hypothalamic neurons after food deprivation. Nishimura F, et al. **Physiol Behav** 1996 Jul;60(1):7–12
Is there a role for corticosterone in expression of abnormal behaviour in restricted-fed fowls? Savory CJ, et al. **Physiol Behav** 1997 Jul;62(1):7–13
Separation as a new animal model for self-induced weight loss. van Leeuwen SD, et al. **Physiol Behav** 1997 Jul; 62(1):77–81
Entrainment of aged, dysrhythmic rats to a restricted feeding schedule. Walcott EC, et al. **Physiol Behav** 1996 Nov; 60(5):1205–8
Food deprivation-induced increases in hoarding by Siberian hamsters are not photoperiod-dependent. Wood AD, et al. **Physiol Behav** 1996 Oct;60(4):1137–45
Comparative growth and development of Nicholas and hybrid toms from 16 to 82 days and effects of protein restriction from 0 to 59 days on growth of hybrid toms through 125 days of age. Barbour GW, et al. **Poult Sci** 1996 Jun;75(6):790–6
Duration of fertility in ad libitum and feed-restricted caged broiler breeders. Goerzen PR, et al. **Poult Sci** 1996 Aug; 75(8):962–5
Application of direct-fed microbial bacteria and fructooligosaccharides for salmonella control in broilers during feed withdrawal. Oyarzabal OA, et al. **Poult Sci** 1996 Feb;75(2):186–90
Effect of feed withdrawal on the incidence of Salmonella in the crops and ceca of market age broiler chickens. Ramirez GA, et al. **Poult Sci** 1997 Apr;76(4):654–6
Changes in body composition and adipocyte cellularity of male broilers subjected to varying degrees of early-life feed restriction. Zubair AK, et al. **Poult Sci** 1996 Jun; 75(6):719–28
Influence of underfeeding on the spontaneous contraction and on metabolism of labelled arachidonic acid in uteri isolated from intact and ovariectomized rats. Casalino SM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):155–8
Aspects of the neuroendocrine control of somatotropic function in calorically restricted dogs and patients with eating disorders: studies with cholinergic drugs. Müller EE, et al. **Psychiatry Res** 1996 Apr 16;62(1):51–63
Food-deprivation increases cocaine-induced conditioned place preference and locomotor activity in rats. Bell SM, et al. **Psychopharmacology (Berl)** 1997 May;131(1):1–8
Dietary restriction modulated carcinogen-DNA adduct formation and the carcinogen-induced DNA strand breaks. Chou MW, et al. **Toxicol Lett** 1997 Jun 16;92(1):21–30
FDA points-to-consider documents: the need for dietary control for the reduction of experimental variability within animal assays and the use of dietary restriction to achieve dietary control. Allaben WT, et al. **Toxicol Pathol** 1996 Nov-Dec;24(6):776–81
Changes in rat heart histomorphometry due to two-week dietary restriction. Burkhardt JE, et al. **Toxicol Pathol** 1996 Sep-Oct;24(5):636–8
The effects of diet, ad libitum overfeeding, and moderate dietary restriction on the rodent bioassay: the uncontrolled variable in safety assessment. Keenan KP, et al. **Toxicol Pathol** 1996 Nov-Dec;24(6):757–68 (49 ref.)
Effect of food restriction on risk assessment. Keenan KP. **Toxicol Pathol** 1996 Nov-Dec;24(6):736–7
Possible mechanisms underlying the antiaging actions of caloric restriction. Masoro EJ. **Toxicol Pathol** 1996 Nov-Dec;24(6):738–41 (39 ref.)
Rationale for the use of dietary control in toxicity studies--B6C3F1 mouse. Turturro A, et al. **Toxicol Pathol** 1996 Nov-Dec;24(6):769–75 (49 ref.)
The retardation of aging by caloric restriction: studies in rodents and primates. Weindruch R. **Toxicol Pathol** 1996 Nov-Dec;24(6):742–5 (26 ref.)
Fluid regulation during prolonged physical strain with water and food deprivation in healthy, trained men. Wittels P, et al. **Wien Klin Wochenschr** 1996 Dec 27;108(24):788–94
Infusion of various short chain fatty acids causes different changes in the blood glucose and insulin concentrations in growing lambs deprived of food overnight. Husveth F, et al. **Zentralbl Veterinarmed A** 1996 Sep;43(7):437–44
[Food restriction and neuronal growth in the aging brain. Increase in a neuronal growth marker in the hippocampus and thalamus] Popa-Wagner A, et al. **Fortschr Med** 1996 Nov 30;114(33):456 **(Ger)**
[The effect of low molecular weight ovarian peptides on the reproductive function during its partial inhibition by food deprivation] Zelenina NV, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):610–3 **(Rus)**

FOOD DIARIES see **DIET RECORDS**

FOOD DISPENSERS, AUTOMATIC

Time to B. cereus about hot chocolate. Nelms PK, et al. **Public Health Rep** 1997 May-Jun;112(3):240–4

FOOD, DRIED see **FOOD PRESERVATION**

FOOD, DRUG AND COSMETIC ACT see **LEGISLATION, DRUG**

FOOD-DRUG INTERACTIONS

Interactions between drugs and nutrients. Tschanz C, et al. **Adv Pharmacol** 1996;35:1–26 (57 ref.)
Drug interactions and consequences of sodium restriction. Bennett WM. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):678S–681S (27 ref.)
Comparison of programs for preventing drug-nutrient interactions in hospitalized patients. Gauthier I, et al. **Am J Health Syst Pharm** 1997 Feb 15;54(4):405–11
Emergency! Hypertensive crisis from drug-food interaction. Cramer C. **Am J Nurs** 1997 May;97(5):32
Drug-food interaction with isoniazid resembling anaphylaxis [letter; comment] O'Sullivan TL. **Ann Pharmacother** 1997 Jul-Aug;31(7-8):928–9. Comment on: Ann Pharmacother 1997 Mar;31(3):373–4.
The effect of food on the pharmacokinetics of the bicalutamide ('Casodex') enantiomers. Cockshott ID, et al. **Biopharm Drug Dispos** 1997 Aug;18(6):499–507
The influence of coffee with milk and tea with milk on the bioavailability of tetracycline. Jung H, et al. **Biopharm Drug Dispos** 1997 Jul;18(5):459–63
The effect of food on the bioavailability of ibuprofen and flurbiprofen from sustained release formulations. Pargal A, et al. **Biopharm Drug Dispos** 1996 Aug;17(6):511–9
Comparative bioavailability of letrozole under fed and fasting conditions in 12 healthy subjects after a 2.5 mg single oral administration. Sioufi A, et al. **Biopharm Drug Dispos** 1997 Aug;18(6):489–97
Effects of food, antacid, and dosage form on the pharmacokinetics and relative bioavailability of sertindole in healthy volunteers. Wong SL, et al. **Biopharm Drug Dispos** 1997 Aug;18(6):533–41
Effects of food and antacid on the pharmacokinetics of single doses of mycophenolate mofetil in rheumatoid arthritis patients. Bullingham R, et al. **Br J Clin Pharmacol** 1996 Jun;41(6):513–6
Effect of food on the absorption of frusemide and bumetanide in man. McCrindle JL, et al. **Br J Clin Pharmacol** 1996 Dec;42(6):743–6
Drug interactions with grapefruit juice. Ameer B, et al. **Clin Pharmacokinet** 1997 Aug;33(2):103–21 (101 ref.)
Sertraline. Chronopharmacokinetics and the effect of coadministration with food. Ronfeld RA, et al. **Clin Pharmacokinet** 1997;32 Suppl 1:50–5
Grapefruit juice-terfenadine single-dose interaction: magnitude, mechanism, and relevance. Rau SE, et al. **Clin Pharmacol Ther** 1997 Apr;61(4):401–9
Drug interactions with grapefruit: whose responsibility is it to warn the public? Spence JD. **Clin Pharmacol Ther** 1997 Apr;61(4):395–400
Effect of food intake on pharmacokinetics and effects of a new thromboxane A2 receptor antagonist, S-1452. Fujimura A, et al. **Eur J Clin Pharmacol** 1996;50(4):311–4
Influence of food intake on the bioavailability of thioctic acid enantiomers [letter] Gleiter CH, et al. **Eur J Clin Pharmacol** 1996;50(6):513–4
Influence of food on the bioavailability and some pharmacokinetic parameters of diprafenone--a novel antiarrhythmic agent. Koytchev R, et al. **Eur J Clin Pharmacol** 1996;50(4):315–9
Effect of food on the bioavailability of oxybutynin from a controlled release tablet. Lukkari E, et al. **Eur J Clin Pharmacol** 1996;50(3):221–3
Metabolic and analytical interactions of grapefruit juice and 1,2-benzopyrone (coumarin) in man. Runkel M, et al. **Eur J Clin Pharmacol** 1996;50(3):225–30
Pharmacokinetic-pharmacodynamic modelling as a tool to evaluate the clinical relevance of a drug-food interaction for a nisoldipine controlled-release dosage form. Schaefer HG, et al. **Eur J Clin Pharmacol** 1997;51(6):473–80
Cyanide detoxification in rats exposed to acetonitrile and fed a low protein diet. Swenne I, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):66–71
Bioavailability and pharmacokinetic properties of 2 sustained-release formulations of diclofenac sodium, Voltaren vs inflaban: effect of food on inflaban bioavailability. Zmeili S, et al. **Int J Clin Pharmacol Ther** 1996 Dec;34(12):564–70
Histamine poisoning after ingestion of spoiled raw tuna in a patient taking isoniazid. Morinaga S, et al. **Intern Med** 1997 Mar;36(3):198–200
The absence of an effect of food on the bioavailability of azithromycin administered as tablets, sachet or suspension. Foulds G, et al. **J Antimicrob Chemother** 1996 Jun;37 Suppl C:37–44
The propensity of different brands of tea and coffee to cause staining associated with chlorhexidine. Leard A, et al. **J Clin Periodontol** 1997 Feb;24(2):115–8
Studies on stannous fluoride toothpaste and gel (1). Antimicrobial properties and staining potential in vitro. Wade W, et al. **J Clin Periodontol** 1997 Feb;24(2):81–5

Single-dose pharmacokinetics and effect of food on the bioavailability of topiramate, a novel antiepileptic drug. Doose DR, et al. **J Clin Pharmacol** 1996 Oct;36(10):884–91
Influence of food on the oral bioavailability of loratadine and pseudoephedrine from extended-release tablets in healthy volunteers. Nomeir AA, et al. **J Clin Pharmacol** 1996 Oct;36(10):923–30
Fruit juices and pharmacology [editorial] Shader RI, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):245–6
Differential effects of food on the bioavailability of controlled-release oxycodone tablets and immediate-release oxycodone solution. Benziger DP, et al. **J Pharm Sci** 1996 Apr;85(4):407–10
Drug–nutrient interactions in enteral feeding: a primary care focus. Varella L, et al. **Nurse Pract** 1997 Jun;22(6):98–104 (24 ref.)
Bioequivalence of a highly variable drug: an experience with nadolol. Buice RG, et al. **Pharm Res** 1996 Jul;13(7):1109–15
Mechanisms of food effects of structurally related antiarrhythmic drugs, disopyramide and bidisomide in the rat. Lee KH, et al. **Pharm Res** 1997 Aug;14(8):1030–8
Influence of grapefruit juice on caffeine pharmacokinetics and pharmacodynamics. Maish WA, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1046–52
[Possibilities and limitations on the interpretation of pharmacokinetic interaction studies (drug–drug, drug–food)] Schug BS, et al. **Pharm Unserer Zeit** 1996 Jul; 25(4):195–6 **(Ger)**

PHYSIOLOGY

Food interaction study of a new theophylline (Egifilin) 200 and 400 mg retard tablet in healthy volunteers. Urmös I, et al. **Int J Clin Pharmacol Ther** 1997 Feb;35(2):65–70
Physiochemical and physiological mechanisms for the effects of food on drug absorption: the role of lipids and pH. Charman WN, et al. **J Pharm Sci** 1997 Mar;86(3):269–82 (263 ref.)

FOOD FADS see **DIET FADS**

FOOD, FORMULATED

Effect of portal venous flow augmentation on liver enhancement with CT. Garcia P, et al. **Abdom Imaging** 1997 May–Jun;22(3):277–80
Experimental milk formulae with reduced protein content and desialylated milk proteins: influence on the faecal flora and the growth of term newborn infants. Chierici R, et al. **Acta Paediatr** 1997 Jun;86(6):557–63
Selenium status of preterm infants: the effect of postnatal age and method of feeding. Daniels L, et al. **Acta Paediatr** 1997 Mar;86(3):281–8
Randomized trial of high nutrient density formula versus standard formula in chronic lung disease. Fewtrell MS, et al. **Acta Paediatr** 1997 Jun;86(6):577–82
Evaluation of full–term infants fed an evaporated milk formula. Friel JK, et al. **Acta Paediatr** 1997 May; 86(5):448–53
The influence of feeding regimens on endogenous digoxin–like immunoreactive substance concentrations in infants. Kurugöl Z, et al. **Acta Paediatr** 1996 Jun; 85(6):753–4
Effects of a liquid meal on contrast–enhanced CT of the liver. Irie T, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1023–4
Review article: the dietary management of Crohn's disease. King TS, et al. **Aliment Pharmacol Ther** 1997 Feb; 11(1):17–31 (120 ref.)
Changes in iron status during weight loss with very–low–energy diets. Beard J, et al. **Am J Clin Nutr** 1997 Jul;66(1):104–10
Extended use of foods modified in fat and sugar content: nutritional implications in a free–living female population. Gatenby SJ, et al. **Am J Clin Nutr** 1997 Jun;65(6):1867–73
Palm olein in infant formula: absorption of fat and minerals by normal infants. Nelson SE, et al. **Am J Clin Nutr** 1996 Sep;64(3):291–6
Orally administered IGF–I increases intestinal mucosal growth in formula–fed neonatal pigs. Burrin DG, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1085–91
Nutritional implications of macronutrient substitutes. Arlington, Virginia, October 27–29, 1996. Conference proceedings. **Ann N Y Acad Sci** 1997 May 23;819:1–253
Dietary fiber: nutritional lessons for macronutrient substitutes. Behall KM. **Ann N Y Acad Sci** 1997 May 23; 819:142–54 (61 ref.)
Beyond calories: other benefits of macronutrient substitutes. Effects on chronic disease. Hannah JS. **Ann N Y Acad Sci** 1997 May 23;819:221–8 (46 ref.)
Appropriate animal models for clinical studies. Harris RB. **Ann N Y Acad Sci** 1997 May 23;819:155–68 (45 ref.)
Macronutrient substitutes. Description and uses. Leveille GA, et al. **Ann N Y Acad Sci** 1997 May 23;819:11–21 (44 ref.)
Impact of macronutrient substitutes on the composition of the diet and the U.S. food supply. Morgan R, et al. **Ann N Y Acad Sci** 1997 May 23;819:70–95 (22 ref.)
Nutritional aspects of macronutrient–substitute intake. Peters JC. **Ann N Y Acad Sci** 1997 May 23;819:169–79 (33 ref.)
Fat and sugar substitutes and the control of food intake. Rolls BJ. **Ann N Y Acad Sci** 1997 May 23;819:180–93 (43 ref.)
Changes in plasma insulin, enterostatin, and lipoprotein levels during an energy–restricted dietary regimen including a new oat–based liquid food. Rytter E, et al. **Ann Nutr Metab** 1996;40(4):212–20
A randomized trial of isonitrogenous enteral diets after severe trauma. An immune–enhancing diet reduces septic complications. Kudsk KA, et al. **Ann Surg** 1996 Oct; 224(4):531–40; discussion 540–3
Development and biomedical testing of military operational rations. Friedl KE, et al. **Annu Rev Nutr** 1997;17:51–75 (110 ref.)
A standardized diet for performing focal fat excretion studies [letter] Dinning JP, et al. **Arch Intern Med** 1997 Jan 27; 157(2):245–6
Infant growth differs by feeding mode [letter; comment] Frongillo EA Jr, et al. **Arch Pediatr Adolesc Med** 1997 Mar;151(3):322–3. Comment on: Arch Pediatr Adolesc Med 1996 Aug;150(8):842–9.
Gut function and immune and inflammatory responses in patients perioperatively fed with supplemented enteral formulas. Braga M, et al. **Arch Surg** 1996 Dec; 131(12):1257–64; discussion 1264–5
Dietary treatment of active Crohn's disease. Diet is the best treatment [letter; comment] King TS, et al. **BMJ** 1997 Jun 21;314(7097):1827–8. Comment on: **BMJ** 1997 Feb 15;314(7079):454–5.
Synthesis and intravenous infusion into the rat of glyceryl bisacetoacetate, 1–acetoacetamido–2, 3–propane diol, and partially reduced glucosyl pentaacetoacetate. Birkhahn RH, et al. **Br J Nutr** 1997 Jul;78(1):155–72
Breastfeeding still best [letter] Lent B. **Can Fam Physician** 1996 Sep;42:1669
Breastfeeding still the best [letter; comment] Lexchin J. **Can Fam Physician** 1996 Sep;42:1669, 1671. Comment on: Can Fam Physician 1996 May;42:850, 852.
Adopting the WHO international code of marketing of breast–milk substitutes [editorial] Reid AJ. **Can Fam Physician** 1996 Sep;42:1639–41, 1650–3 **(Eng, Fre)**
Cow's milk protein allergy and hypoallergenic formulas [editorial] Wyllie R. **Clin Pediatr (Phila)** 1996 Oct; 35(10):497–500 (40 ref.)
Amelioration of chronic inflammation by ingestion of elemental diet in a rat model of granulomatous enteritis. Tanaka S, et al. **Dig Dis Sci** 1997 Feb;42(2):408–19
How to make the gut grow. Carey HV. **Gastroenterology** 1997 Apr;112(4):1420–2
In vivo rat assay for true protein digestibility and protein quality of beef and meat products extended with soy protein. Abdel–Aziz S, et al. **Int J Food Sci Nutr** 1997 Jan;48(1):51–6
A long–term study on the effect of spontaneous consumption of reduced fat products as part of a normal diet on indicators of health. van het Hof KH, et al. **Int J Food Sci Nutr** 1997 Jan;48(1):19–29
Long–term effects of a very low calorie diet (Nutrilett) in obesity treatment. A prospective, randomized, comparison between VLCD and a hypocaloric diet+behavior modification and their combination. Ryttig KR, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):574–9
Gastrointestinal tolerance of a pediatric fiber formula in developmentally disabled children. Tolia V, et al. **J Am Coll Nutr** 1997 Jun;16(3):224–8
Decreased fat and nitrogen losses in patients with AIDS receiving medium–chain–triglyceride–enriched formula vs those receiving long–chain–triglyceride–containing formula. Craig GB, et al. **J Am Diet Assoc** 1997 Jun; 97(6):605–11
Reversal of altered intestinal mucosal immunity in rats fed elemental diet by supplementation of oleic acid. Serizawa H, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):811–8
Treatment products and approaches for phenylketonuria: improved palatability and flexibility demonstrate safety, efficacy and acceptance in US clinical trials. Prince AP, et al. **J Inherit Metab Dis** 1997 Aug;20(4):486–98
Dietary nucleotides: effects on cell proliferation following partial hepatectomy in rats fed NIH–31, AIN–76A, or folate/methyl–deficient diets. Jackson CD, et al. **J Nutr** 1997 May;127(5 Suppl):834S–837S
New nonpurified diet (NTP–2000) for rodents in the National Toxicology Program's toxicology and carcinogenesis studies. Rao GN. **J Nutr** 1997 May;127(5 Suppl):842S–846S (22 ref.)
Components of the AIN–93 diets as improvements in the AIN–76A diet. Reeves PG. **J Nutr** 1997 May;127(5 Suppl):838S–841S (28 ref.)
Trigeminal neuralgia managed by a change in lifestyle. Davies AN, et al. **J Palliat Care** 1997 Summer;13(2):50–1
Effect of small variations of aluminum intake on calcium metabolism in young rats. Boudey M, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):124–7
Simplified preparation of a refined milk formula comparable to rat's milk: influence of the formula on development of the gut and brain in artificially reared rat pups. Kanno T, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):242–52
Soy–polysaccharide–supplemented soy formula enhances mucosal disaccharidase levels following massive small intestinal resection in rats. Michail S, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):140–5
Absorption of nutrients from an energy–dense diet liquefied with amylase from germinated wheat in infants with acute diarrhea. Rahman MM, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):119–23
Effects of an immune–enhancing diet in critically injured patients. Mendez C, et al. **J Trauma** 1997 May;42(5):933–40; discussion 940–1
Randomized trial of immune–enhancing enteral nutrition in burn patients. Saffle JR, et al. **J Trauma** 1997 May; 42(5):793–800; discussion 800–2
Effects of small–peptide and whole–protein enteral feedings on serum proteins and diarrhea in critically ill patients: a randomized trial. Heimburger DC, et al. **JPEN J Parenter Enteral Nutr** 1997 May–Jun;21(3):162–7
Glycemic response to dietary supplements in cystic fibrosis is dependent on the carbohydrate content of the formula. Milla C, et al. **JPEN J Parenter Enteral Nutr** 1996 May–Jun;20(3):182–6
The use of an enteral expert system in the prescription of enteral formulas in a university hospital. Morgan SL, et al. **Nutrition** 1997 Mar;13(3):196–201
Physical and nutritional qualities of extruded weaning foods containing sorghum, pearl millet, or finger millet blended with mung beans and nonfat dried milk. Malleshi NG, et al. **Plant Foods Hum Nutr** 1996 Apr;49(3):181–9
Polyunsaturated fatty acids status in blood, heart, liver, intestine, retina and brain of newborn piglets fed either sow milk or a milk replacer diet. Alessandri JM, et al. **Reprod Nutr Dev** 1996;36(1):95–109
Clinical evaluation of food allergy and food intolerance dietary treatment in children. Iwańczak F, et al. **Rocz Akad Med Bialymst** 1995;40(3):588–94
Effectiveness of Nutramigen and Prosobee in children with cow's milk protein intolerance. Korol D, et al. **Rocz Akad Med Bialymst** 1995;40(3):595–601
Elemental diet in the treatment of pneumatosis coli. Johnston BT, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1224–7
Pectin–supplemented enteral diet reduces the severity of methotrexate induced enterocolitis in rats. Mao Y, et al. **Scand J Gastroenterol** 1996 Jun;31(6):558–67
Defined–formula diets versus steroids in the treatment of active Crohn's disease: a meta–analysis. Messori A, et al. **Scand J Gastroenterol** 1996 Mar;31(3):267–72
Effect of oral supplementation of ornithine–alpha–ketoglutarate on the intestinal barrier after orthotopic small bowel transplantation. de Oca J, et al. **Transplantation** 1997 Mar 15;63(5):636–9
[Effects of various feeding regimens in multiple trauma patients on septic complications and immune parameters] Engel JM, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Apr; 32(4):234–9 (Eng. Abstr.) **(Ger)**
[Glutamine supplemented nutrition in clinical practice—use of glutamine–containing dipeptides (see comments)] Fürst P, et al. **Infusionsther Transfusionsmed** 1995 Oct; 22(5):317–24 (56 ref.) (Eng. Abstr.). Comment in: Infusionsther Transfusionsmed 1996 Apr;23(2):98–9. **(Ger)**
[Effect of dietary measures on body weight and height of children with phenylketonuria in East Germany] Bührdel P, et al. **Klin Padiatr** 1997 Jan–Feb;209(1):26–9 (Eng. Abstr.) **(Ger)**
[Barriers in breast feeding: marketing of breast feeding substitutes] Mikiel–Kostyra K. **Pediatr Pol** 1996 Aug; 71(8):731–4 (Eng. Abstr.) **(Pol)**
[Probiotics and functional food] Shendereov BA, et al. **Antibiot Khimioter** 1997;42(7):30–4 (13 ref.) **(Rus)**
[Sugar substitutes in specialized child nutrition products for the prevention and treatment of diabetes mellitus] Gapparov MM. **Vopr Pitan** 1996;(5):68–70 **(Rus)**
[The "Nutritec Company", a joint–stock enterprise, at a new stage in the development of the child nutrition industry] Kruglik VI. **Vopr Pitan** 1996;(5):74–6 **(Rus)**
[New low–calorie, vitamin–enriched products manufactured by the firm of Corona Laboratories, Inc., USA (news)] Samsonov MA. **Vopr Pitan** 1996;(3):46–7 **(Rus)**
[Color loss evaluation of a dietary formulation in function of temperature, storage time and packaging] Torres A, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):54–8 (Eng. Abstr.) **(Spa)**
[Response of the intestinal mucosa to different enteral diets in situations of surgical stress and malnutrition] Vázquez P, et al. **Nutr Hosp** 1996 Nov–Dec;11(6):321–7 (Eng. Abstr.) **(Spa)**
[Lactose–free formula products available in Mexico. Their significance and applications] Rosado JL, et al. **Rev Invest Clin** 1996 Nov;48 Suppl:67–86 (Eng. Abstr.) **(Spa)**

ANALYSIS

The influence of dietary nucleotides on erythrocyte membrane fatty acids and plasma lipids in preterm infants. Axelsson I, et al. **Acta Paediatr** 1997 May;86(5):539–44
Aminophylline stability in total parenteral nutrition admixtures. Ciszewska–Jędrasik M, et al. **Acta Pol Pharm** 1995 Nov–Dec;52(6):487–90
Determination of zinc, magnesium and calcium in therapeutical nutrients by flameless AAS after microwave digestion. Sołtyk K, et al. **Acta Pol Pharm** 1995 Nov–Dec; 52(6):437–40
Determination of selenium in infant formula and enteral formula by dry ash graphite furnace atomic absorption spectrometry with deuterium background correction. Cook KK. **J AOAC Int** 1996 Sep–Oct;79(5):1162–6
Extension of dry ash atomic absorption and spectrophotometric methods to determination of minerals and phosphorus in soy–based, whey–based, and enteral

formulae (modification of AOAC Official Methods 985.35 and 986.24): collaborative study. Cook KK.
J AOAC Int 1997 Jul-Aug;80(4):834-44

Rapid separation of soybean globulins by reversed-phase high-performance liquid chromatography. García MC, et al. **J Chromatogr A** 1997 Jan 10;758(1):75-83

Aluminum in enteral nutrition formulas and parenteral solutions. Baydar T, et al. **J Toxicol Clin Toxicol** 1997; 35(3):277-81

The use of modular nutrients in pediatrics [published erratum appears in JPEN J Parenter Enteral Nutr 1996 Jul-Aug;20(4):305] [see comments] Davis A, et al.
JPEN J Parenter Enteral Nutr 1996 May-Jun;20(3):228-36 (65 ref.). Comment in: JPEN J Parenter Enteral Nutr 1997 Mar-Apr;21(2):118.

Effects of in-line filtration on lipid particle size distribution in total nutrient admixtures. Driscoll DF, et al.
JPEN J Parenter Enteral Nutr 1996 Jul-Aug;20(4):296-301

Glutamine content of protein and peptide-based enteral products. Kuhn KS, et al.
JPEN J Parenter Enteral Nutr 1996 Jul-Aug;20(4):292-5

Phospholipid-rich particles in commercial parenteral fat emulsions. An overview. Bach AC, et al.
Prog Lipid Res 1996;35(2):133-53 (232 ref.)

MICROBIOLOGY

Effect of storage temperatures and ingredients on growth of Bacillus cereus in coffee creamers. Feijoo SC, et al. **J Dairy Sci** 1997 Aug;80(8):1546-53

STANDARDS

Calcium and phosphorus supplementation of iron-fortified infant formula: no effect on iron status of healthy full-term infants. Dalton MA, et al. **Am J Clin Nutr** 1997 Apr; 65(4):921-6

A prospective randomized study of glutamine-enriched parenteral compared with enteral feeding in postoperative patients. Fish J, et al. **Am J Clin Nutr** 1997 Apr; 65(4):977-83

Regulatory aspects of the introduction of new macronutrient substitutes. Rulis AM, et al. **Ann N Y Acad Sci** 1997 May 23;819:22-8 (0 ref.)

Early postoperative enteral immunonutrition: clinical outcome and cost-comparison analysis in surgical patients. Senkal M, et al. **Crit Care Med** 1997 Sep;25(9):1489-96

Effect of feeding a milk replacer to early-weaned pigs on growth, body composition, and small intestinal morphology, compared with suckled littermates. Zijlstra RT, et al. **J Anim Sci** 1996 Dec;74(12):2948-59

Infant feeding and the law. Sobti JC, et al.
J Indian Med Assoc 1996 Mar;94(3):108-10

Formula containing randomized fats with palmitic acid (16:0) in the 2-position increases 16:0 in the 2-position of plasma and chylomicron triglycerides in formula-fed piglets to levels approaching those of piglets fed sow's milk. Innis SM, et al. **J Nutr** 1997 Jul;127(7):1362-70

Use of modular nutrients in pediatrics [letter; comment] Kalnins D. **JPEN J Parenter Enteral Nutr** 1997 Mar-Apr; 21(2):118. Comment on: JPEN J Parenter Enteral Nutr 1996 May-Jun;20(3):228-36.

It's a food, it's a drug ... no, it's a medical food. King AB. **Nutrition** 1997 Mar;13(3):247-8

FOOD, FORTIFIED

Follow-on formula in the prevention of iron deficiency: a multicentre study. Gill DG, et al. **Acta Paediatr** 1997 Jul; 86(7):683-9

Taurine supplementation prevents hyperaminoacidemia in growing term infants fed high-protein cow's milk formula. Räihä NC, et al. **Acta Paediatr** 1996 Dec;85(12):1403-7

Selenium supply and glutathione peroxidase activity in breastfed Polish infants. Trafikowska U, et al.
Acta Paediatr 1996 Oct;85(10):1143-5

Effect of retinyl acetate, ascorbic acid and tocopherol supplementation of the feed on egg vitamin A content in Japanese quail. Bárdos J et al. **Acta Vet Hung** 1996; 44(2):213-9

Haematologic values of Hyla rabbits fed different levels of by-product arising from the propagation of Pleurotus pulmonarius. Rupić V, et al. **Acta Vet Hung** 1996; 44(1):75-84

Designer foods. Is there a role for supplementation/fortification? Finley JW.
Adv Exp Med Biol 1996;401:213-20

Nutritional supplementation in elderly medical in-patients: a double-blind placebo-controlled trial. Hogarth MB, et al. **Age Ageing** 1996 Nov;25(6):453-7

Does maternal supplementation shorten the duration of lactational amenorrhea? [editorial; comment] Dewey KG. **Am J Clin Nutr** 1996 Sep;64(3):377-8. Comment on: Am J Clin Nutr 1996 Sep;64(3):283-90.

Plasma alpha-tocopherol concentrations after supplementation with water- and fat-soluble vitamin E. Dimitrov NV, et al. **Am J Clin Nutr** 1996 Sep;64(3):329-35

Adherence to iron supplementation during pregnancy in Tanzania: determinants and hematologic consequences. Ekström EC, et al. **Am J Clin Nutr** 1996 Sep;64(3):368-74

Effects of early childhood supplementation with and without stimulation on later development in stunted Jamaican children. Grantham-McGregor SM, et al.
Am J Clin Nutr 1997 Aug;66(2):247-53

Call for endorsement of a petition to the Food and Drug Administration to always add vitamin B-12 to any folate fortification or supplement [see comments] Herbert V, et al. **Am J Clin Nutr** 1997 Feb;65(2):572-3. Comment in: Am J Clin Nutr 1997 Aug;66(2):450-1.

Unmetabolized folic acid in serum: acute studies in subjects consuming fortified food and supplements [see comments] Kelly P, et al. **Am J Clin Nutr** 1997 Jun;65(6):1790-5. Comment in: Am J Clin Nutr 1997 Jun;65(6):1889-90.

Vitamin B-12 fortification of folate-enriched grain products [letter; comment] Lavine JB. **Am J Clin Nutr** 1997 Aug; 66(2):450-1. Comment on: Am J Clin Nutr 1997 Feb;65(2):572-3.

n-3 fatty acids induce oxidative modifications in human erythrocytes depending on dose and duration of dietary supplementation. Palozza P, et al. **Am J Clin Nutr** 1996 Sep;64(3):297-304

Use of multivitamin/mineral prenatal supplements: influence on the outcome of pregnancy. Scholl TO, et al.
Am J Epidemiol 1997 Jul 15;146(2):134-41

Why WIC (Women, Infants and Children Food Supplement Program)? [letter; comment] Spellacy WN.
Am J Obstet Gynecol 1996 Oct;175(4 Pt 1):1079. Comment on: Am J Obstet Gynecol 1996 Apr;174(4):1279-83.

Gut adaptation and the insulin-like growth factor system: regulation by glutamine and IGF-I administration. Ziegler TR, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G866-75

The recovery of Guatemalan children with mild to moderate wasting: factors enhancing the impact of supplementary feeding. Rivera JA, et al. **Am J Public Health** 1996 Oct; 86(10):1430-4

The duration of the effect of vitamin A supplementation [letter; comment] Sommer A, et al.
Am J Public Health 1997 Mar;87(3):467-9. Comment on: Am J Public Health 1995 Sep;85(9):1246-51.

Effects of creatine supplementation on performance. Ekblom B. **Am J Sports Med** 1996;24(6 Suppl):S38-9

Effects of choreito consumption on urine variables of healthy cats fed a magnesium-supplemented commercial diet. Buffington CA, et al. **Am J Vet Res** 1997 Feb;58(2):146-9

Salt: an ineffective vehicle for iodine delivery to young children in rural Sarawak. Foo LC, et al.
Ann Endocrinol (Paris) 1996;57(6):470-5

Calcium and vitamin D3 supplementation prevents bone loss in the spine secondary to low-dose corticosteroids in patients with rheumatoid arthritis. A randomized, double-blind, placebo-controlled trial [see comments] Buckley LM, et al. **Ann Intern Med** 1996 Dec 15; 125(12):961-8. Comment in: Ann Intern Med 1997 Jul 1;127(1):90.

Eating to beat breast cancer: potential role for soy supplements. Stoll BA. **Ann Oncol** 1997 Mar;8(3):223-5

Nutrient intakes and impact of fortified breakfast cereals in schoolchildren. McNulty H, et al. **Arch Dis Child** 1996 Dec; 75(6):474-81

Gut function and immune and inflammatory responses in patients perioperatively fed with supplemented enteral formulas. Braga M, et al. **Arch Surg** 1996 Dec; 131(12):1257-64; discussion 1264-5

Vitamin E supplementation in elderly lowers the oxidation rate of linoleic acid in LDL. de Waart FG, et al.
Atherosclerosis 1997 Sep;133(2):255-63

Effect of dietary vitamin E supplements on cholesteryl ester transfer activity in hamster adipose tissue. Shen GX, et al. **Atherosclerosis** 1996 Aug 2;124(2):211-9

An investigation of the radioprotective effect of dietary antioxidants on isolated murine lymphocytes. Galligan ES, et al. **Biochem Soc Trans** 1997 Feb;25(1):136S

Supplementation of calves with stabilized orthosilicic acid. Effect on the Si, Ca, Mg, and P concentrations in serum and the collagen concentration in skin and cartilage. Calomme MR, et al. **Biol Trace Elem Res** 1997 Feb; 56(2):153-65

The effects of high energy and micronutrient supplementation on iron status in nutritionally at risk infants. Husaini MA, et al. **Biomed Environ Sci** 1996 Sep; 9(2-3):325-40

Iron supplementation moderates but does not cure the Belgrade anemia. Garrick M, et al. **Biometals** 1997 Apr; 10(2):65-76

Dietary magnesium supplementation ameliorates anemia in a mouse model of beta-thalassemia. De Franceschi L, et al. **Blood** 1997 Aug 1;90(3):1283-90

Fluoride supplement dosage. British Dental Association, the British Society of Paediatric Dentistry and the British Association for the Study of Community Dentistry [see comments] **Br Dent J** 1997 Jan 11;182(1):6-7. Comment in: Br Dent J 1997 Mar 22;182(6):206.

Influence of iron supplementation frequency on absorption efficiency and mucosal ferritin in anaemic rats. Benito P, et al. **Br J Nutr** 1997 Sep;78(3):469-77

Incorporation of n-3 polyunsaturated fatty acids into processed foods [editorial; comment] Gibney MJ.
Br J Nutr 1997 Aug;78(2):193-5. Comment on: Br J Nutr 1997 Aug;78(2):223-6.

Dietary supplementation and rapid catch-up growth after acute diarrhoea in childhood. Hoare S, et al.
Br J Nutr 1996 Oct;76(4):479-90

Use of manufactured foods enriched with fish oils as a means of increasing long-chain n-3 polyunsaturated fatty acid intake [see comments] Lovegrove JA, et al. **Br J Nutr** 1997 Aug;78(2):223-36. Comment in: Br J Nutr 1997 Aug;78(2):193-5.

The effect of ingestion of inulin on blood lipids and gastrointestinal symptoms in healthy females. Pedersen A, et al. **Br J Nutr** 1997 Aug;78(2):215-22

Long-term supplementation with selenate and selenomethionine: urinary excretion by New Zealand women. Robinson MF, et al. **Br J Nutr** 1997 Apr; 77(4):551-63

The effect of long-term calcium supplementation on indices of iron, zinc and magnesium status in lactating Gambian women. Yan L, et al. **Br J Nutr** 1996 Dec;76(6):821-31

Creatine supplementation: recent developments [editorial] Greenhaff PL. **Br J Sports Med** 1996 Dec;30(4):276-7

Effects of enzyme supplementation on the nutritive value of dehulled lupins. Annison G, et al. **Br Poult Sci** 1996 Mar;37(1):157-72

Effect of vitamin A on the oxidative stability of broiler meat during storage: lack of interactions with vitamin E. Bartov I, et al. **Br Poult Sci** 1997 Jul;38(3):255-7

Increased small intestinal fermentation is partly responsible for the anti-nutritive activity of non-starch polysaccharides in chickens. Choct M, et al. **Br Poult Sci** 1996 Jul; 37(3):609-21

Depletion of dietary sulphamonomethoxine and sulphadimethoxine from various tissues of laying hens. Furusawa N, et al. **Br Poult Sci** 1996 May;37(2):435-42

Effects of dietary protein content, addition of nonessential amino acids and dietary methionine to cysteine balance on responses to dietary sulphur-containing amino acids in broilers. Huyghebaert G, et al. **Br Poult Sci** 1996 Jul; 37(3):623-39

Effect of probiotic supplementation on growth, nitrogen utilisation and serum cholesterol in broilers. Mohan B, et al. **Br Poult Sci** 1996 May;37(2):395-401

Effects on dietary phosphorus of treating cottonseed meal with crystalline ferrous sulphate for the prevention of brown yolk discolouration. Panigrahi S, et al.
Br Poult Sci 1996 May;37(2):403-11

Effectiveness of dietary 25- and 1-hydroxycholecalciferol in combating tibial dyschondroplasia in broiler chickens. Rennie JS, et al. **Br Poult Sci** 1996 May;37(2):413-21

Prevention of preeclampsia with calcium supplementation and its relation with the L-arginine:nitric oxide pathway. López-Jaramillo P. **Braz J Med Biol Res** 1996 Jun; 29(6):731-41 (99 ref.)

Treating anemia with iron-fortified formula [letter] Rauliuk M, et al. **Can Fam Physician** 1997 Sep;43:1497-9

Calcium supplementation for the nation [letter; comment] Bobechko WP. **Can Med Assoc J** 1997 May 1;156(9):1269 . Comment on: Can Med Assoc J 1996 Oct 1;155(7):935-9.

The association between participant characteristics and serum concentrations of beta-carotene, retinol, retinyl palmitate, and alpha-tocopherol among participants in the Carotene and Retinol Efficacy Trial (CARET) for prevention of lung cancer. Goodman GE, et al.
Cancer Epidemiol Biomarkers Prev 1996 Oct;5(10):815-21

New carotenoid values for foods improve relationship of food frequency questionnaire intake estimates to plasma values. Ritenbaugh C, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):907-12

Supplementary iron intake and risk of cancer: reversed causality? Ullén H, et al. **Cancer Lett** 1997 Mar 19; 114(1-2):215-6

Levels of PCDDs, PCDFs and non-ortho PCBs in dietary supplement fish oil obtained in Spain. Jimenez B, et al. **Chemosphere** 1996 Feb;32(3):461-7

Dietary supplementation of nucleotides and arginine promotes healing of small bowel ulcers in experimental ulcerative ileitis. Sukumar P, et al. **Dig Dis Sci** 1997 Jul; 42(7):1530-6

Effect of tempe-yellow maize porridge and milk-yellow maize porridge on growth rate, diarrhoea and duration of rehabilitation of malnourished children [see comments] Kalavi FN, et al. **East Afr Med J** 1996 Jul;73(7):427-31. Comment in: Early Hum Dev 1996 Jul;73(7):417-8.

Vitamin requirements: present recommendations and future prospects. Giacosa A, et al. **Eur J Cancer Prev** 1997 Mar; 6 Suppl 1:S79-81 (10 ref.)

Case management of kwashiorkor: an intervention project at seven nutrition rehabilitation centres in Malawi. Brewster DR, et al. **Eur J Clin Nutr** 1997 Mar;51(3):139-47

The use of nutritional supplements by 4-12 year olds in England and Scotland. Bristow A, et al.
Eur J Clin Nutr 1997 Jun;51(6):366-9

Lack of influence of intestinal transit on oxidative status in premenopausal women. Lewis S, et al. **Eur J Clin Nutr** 1996 Aug;50(8):565-8

Effect of 6 month supplementation with different combinations of an association of antioxidant nutrients on biochemical parameters and markers of the antioxidant defence system in the elderly. The Geriatrie/Min.Vit.Aox Network. Monget AL, et al. **Eur J Clin Nutr** 1996 Jul; 50(7):443-9

Evaluation of the effect of vitamin A-fortified margarine on the vitamin A status of preschool Filipino children. Solon FS, et al. **Eur J Clin Nutr** 1996 Nov;50(11):720-3

Ascorbic acid enhances hydroxyl radical formation in iron-fortified infant cereals and infant formulas. Almaas R, et al. **Eur J Pediatr** 1997 Jun;156(6):488-92

Effects of ingested fluids on exercise capacity and on cardiovascular and metabolic responses to prolonged

exercise in man. Maughan RJ, et al. **Exp Physiol** 1996 Sep; 81(5):847–59

Food fortification. Technology and quality control. FAO Technical Meeting. **FAO Food Nutr Pap** 1996;60:1–102

Dietary choline supplementation in pregnant rats increases hippocampal phospholipase D activity of the offspring. Holler T, et al. **FASEB J** 1996 Dec;10(14):1653–9

A therapeutic dosage (3 g/day) of borage oil supplementation has no effect on platelet aggregation in healthy volunteers. Bard JM, et al. **Fundam Clin Pharmacol** 1997;11(2):143–4

Vitamin E supplements. Clinical practice is changing with new data on preventive care of older patients [editorial] Butler RN. **Geriatrics** 1997 Jul;52(7):7–8

Influence of dietary protein supplements on the formation of bacterial metabolites in the colon. Geypens B, et al. **Gut** 1997 Jul;41(1):70–6

Two phase randomised controlled clinical trial of postoperative oral dietary supplements in surgical patients. Keele AM, et al. **Gut** 1997 Mar;40(3):393–9

Effects of a yeast-based dietary supplementation on premenstrual syndrome. A double-blind placebo-controlled study. Facchinetti F, et al. **Gynecol Obstet Invest** 1997;43(2):120–4

Modulation of antibody-forming cell and mitogen-driven lymphoproliferative responses by dietary nucleotides in mice. Navarro J, et al. **Immunol Lett** 1996 Nov; 53(2–3):141–5

Zinc supplementation in severe malnutrition. Vasudevan A, et al. **Indian Pediatr** 1997 Mar;34(3):236–8

Effect of vitamin A supplementation to mother and infant on morbidity in infancy. Venkatarao T, et al. **Indian Pediatr** 1996 Apr;33(4):279–86

Vitamin A supplementation in premature neonates with postnatal lung injury. Italian Collaborative Group on Preterm Delivery (ICGPD). **Int J Clin Pharmacol Ther** 1996 Aug;34(8):362–5

Iodine. Do we need an enrichment program in Denmark? Rasmussen LB, et al. **Int J Food Sci Nutr** 1996 Sep; 47(5):377–81

Response to an iron fortification programme in relation to vitamin A status in 6–12-year-old school children. van Stuijvenberg ME, et al. **Int J Food Sci Nutr** 1997 Jan; 48(1):41–9

Effects of ingesting supplements designed to promote lean tissue accretion on body composition during resistance training. Kreider RB, et al. **Int J Sport Nutr** 1996 Sep; 6(3):234–46

The effect of creatine supplementation on two 700-m maximal running bouts. Terrillion KA, et al. **Int J Sport Nutr** 1997 Jun;7(2):138–43

Effect of oral creatine supplementation on jumping and running performance. Bosco C, et al. **Int J Sports Med** 1997 Jul;18(5):369–72

Combined effects of caloric restriction and branched-chain amino acid supplementation on body composition and exercise performance in elite wrestlers. Mourier A, et al. **Int J Sports Med** 1997 Jan;18(1):47–55

Influence of different dietary vitamin B6 supply during gravidity and lactation on total vitamin B6 concentration (pyridoxine, pyridoxal and pyridoxamine) in blood and milk. Benedikt J, et al. **Int J Vitam Nutr Res** 1996; 66(2):146–50

The way to prevent spina bifida [news] **Ir Med J** 1996 Jul–Aug;89(4):136

Nutritional supplements [letter; comment] Muncie HL Jr. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):466. Comment on: J Am Board Fam Pract 1996 Jul–Aug;9(4):249–53.

Dietary L-arginine supplementation normalizes platelet aggregation in hypercholesterolemic humans. Wolf A, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):479–85

Calcium absorption from apple and orange juice fortified with calcium citrate malate (CCM). Andon MB, et al. **J Am Coll Nutr** 1996 Jun;15(3):313–6

Vitamin supplementation and other variables affecting serum homocysteine and methylmalonic acid concentrations in elderly men and women. Koehler KM, et al. **J Am Coll Nutr** 1996 Aug;15(4):364–76

Zinc status relates to hematological deficits in women endurance runners [see comments] Nishiyama S, et al. **J Am Coll Nutr** 1996 Aug;15(4):359–63. Comment in: J Am Coll Nutr 1996 Aug;15(4):323–4.

VFD simplified [news] **J Am Vet Med Assoc** 1997 May 1; 210(9):1252–3

Dietary coenzyme Q10 supplementation alters platelet size and inhibits human vitronectin (CD51/CD61) receptor expression. Serebruany VL, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):16–22

Calcium-enriched foods and bone mass growth in prepubertal girls: a randomized, double-blind, placebo-controlled trial. Bonjour JP, et al. **J Clin Invest** 1997 Mar 15;99(6):1287–94

The speciation of lysine-complexed copper as a bovine nutritional supplement. Attaelmannan MA, et al. **J Inorg Biochem** 1996 Nov 15;64(3):215–24

Dietary modulation of omega-3/omega-6 polyunsaturated fatty acid ratios in patients with breast cancer. Bagga D, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1123–31

Should intakes with beneficial actions, often requiring supplementation, be considered for RDAs? Combs GF Jr. **J Nutr** 1996 Sep;126(9 Suppl):2373S–2376S

Supplementation with an algae source of docosahexaenoic acid increases (n-3) fatty acid status and alters selected risk factors for heart disease in vegetarian subjects. Conquer JA, et al. **J Nutr** 1996 Dec;126(12):3032–9

Food supplementation during lactation shortens anestrus and elevates gonadotropins in rats. Gournis E, et al. **J Nutr** 1997 May;127(5):785–90

Should infant formulas be supplemented with bioactive components and conditionally essential nutrients present in human milk? Hamosh M. **J Nutr** 1997 May;127(5 Suppl):971S–974S (38 ref.)

Dietary supplementation with gamma-linolenic acid alters fatty acid content and eicosanoid production in healthy humans. Johnson MM, et al. **J Nutr** 1997 Aug; 127(8):1435–44

Some vitamin sources relating to plasma homocysteine provide not only folate but also vitamins B-12 and B-6 [letter] Koehler KM, et al. **J Nutr** 1997 Aug;127(8):1534–6

Early childhood supplementation does not benefit the long-term growth of stunted children in Jamaica. Walker SP, et al. **J Nutr** 1996 Dec;126(12):3017–24

New procedure to fortify fluid milk and derivatives with iron: a comparative study in mice. Boccio JR, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):619–26

Digestion of proteins in human milk, human milk fortifier, and preterm formula in infant rhesus monkeys. Lindberg T, et al. **J Pediatr Gastroenterol Nutr** 1997 May; 24(5):537–43

Correction of iron deficiency with an iron-fortified fluid whole cow's milk in children: results of a pilot study. Rapetti MC, et al. **J Pediatr Hematol Oncol** 1997 May–Jun; 19(3):192–6

The effect of arginine supplementation on growth hormone release and intestinal mucosal growth after massive small bowel resection in growing rats. Hebiguchi T, et al. **J Pediatr Surg** 1997 Aug;32(8):1149–53

The effect of selenium supplementation during the early post-mating period on embryonic survival in sheep. van Niekerk FE, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):209–13

Can women live on bread alone? Folic acid supplementation revisited. Page RL 2nd, et al. **J S C Med Assoc** 1997 Feb; 93(2):57–62 (27 ref.)

Leucine supplementation and serum amino acids, testosterone, cortisol and growth hormone in male power athletes during training. Mero A, et al. **J Sports Med Phys Fitness** 1997 Jun;37(2):137–45

Nutritional ergogenics in athletics. Williams MH. **J Sports Sci** 1995 Summer;13 Spec No:S63–74 (90 ref.)

Influence of dietary selenium on the disposition of arsenate in the female B6C3F1 mouse. Kenyon EM, et al. **J Toxicol Environ Health** 1997 Jun 27;51(3):279–99

Comparative trace mineral nutritional balance of first-litter gilts under two dietary levels of copper intake. Cao J, et al. **J Trace Elem Med Biol** 1995 Jul;9(2):102–11

Effect of selenium supplementation on biological constants and antioxidant status in rats. Coudray C, et al. **J Trace Elem Med Biol** 1996 Apr;10(1):12–9

Human selenium supplementation as assessed by changes in blood selenium concentration and glutathione peroxidase activity. Nève J. **J Trace Elem Med Biol** 1995 Jul;9(2):65–73 (32 ref.)

Optimal dose of enterococcal preparation (FK-23) supplemented perorally for stimulation of leukocyte reconstitution in dogs treated with cyclophosphamide. Kanasugi H, et al. **J Vet Med Sci** 1996 Jun;58(6):563–5

Fortifying food with folic acid [letter] Johnston RB Jr, et al. **J Womens Health** 1997 Apr;6(2):233–4

From the Centers for Disease Control and Prevention. Knowledge and use of folic acid by women of childbearing age--United States, 1997. **JAMA** 1997 Sep 17; 278(11):892–3

Folate supplementation and the risk of masking vitamin B12 deficiency [letter; comment] Brantigan CO. **JAMA** 1997 Mar 19;277(11):884–5. Comment on: JAMA 1996 Dec 18;276(23):1879–85.

Predictors of red cell folate level in women attempting pregnancy. Brown JE, et al. **JAMA** 1997 Feb 19; 277(7):548–52

Graying of the immune system. Can nutrient supplements improve immunity in the elderly? [comment] Chandra RK. **JAMA** 1997 May 7;277(17):1398–9. Comment on: JAMA 1997 May 7;277(17):1380–6.

Folic acid fortification of the food supply. Potential benefits and risks for the elderly population [see comments] [published erratum appears in JAMA 1997 Mar 5;277(9):714] Tucker KL, et al. **JAMA** 1996 Dec 18; 276(23):1879–85. Comment in: JAMA 1997 Mar 19;277(11):884–5.

Folic acid and prevention of neural-tube defects [letter] Howell F, et al. **Lancet** 1997 Aug 30;350(9078):664–5

Folic acid and prevention of neural-tube defects [letter] Hurren C, et al. **Lancet** 1997 Aug 30;350(9078):664

Folic acid and prevention of neural-tube defects [letter] Wald N, et al. **Lancet** 1997 Aug 30;350(9078):665

Influence of dietary arachidonic acid on metabolism in vivo of 8cis,11cis,14-eicosatrienoic acid in humans. Emken EA, et al. **Lipids** 1997 Apr;32(4):441–8

Increased dietary arachidonic acid enhances the synthesis of vasoactive eicosanoids in humans. Ferretti A, et al. **Lipids** 1997 Apr;32(4):435–9

Effects of dietary arachidonic acid on human immune response. Kelley DS, et al. **Lipids** 1997 Apr;32(4):449–56

The effect of dietary arachidonic acid on platelet function, platelet fatty acid composition, and blood coagulation in humans. Nelson GJ, et al. **Lipids** 1997 Apr;32(4):421–5

The effect of dietary arachidonic acid on plasma lipoprotein distributions, apoproteins, blood lipid levels, and tissue fatty acid composition in humans. Nelson GJ, et al. **Lipids** 1997 Apr;32(4):427–33

A human dietary arachidonic acid supplementation study conducted in a metabolic research unit: rationale and design. Nelson GJ, et al. **Lipids** 1997 Apr;32(4):415–20

Effects of long-term high manganese intake on magnesium metabolism in rats. Gaillard E, et al. **Magnes Res** 1996 Jun; 9(2):119–23

Chromium and exercise training: effect on obese women. Grant KE, et al. **Med Sci Sports Exerc** 1997 Aug; 29(8):992–8

Creatine supplementation does not improve sprint performance in competitive swimmers. Mujika I, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1435–41

Effect of inosine supplementation on aerobic and anaerobic cycling performance. Starling RD, et al. **Med Sci Sports Exerc** 1996 Sep;28(9):1193–8

Knowledge and use of folic acid by women of childbearing age—United States, 1997. **MMWR Morb Mortal Wkly Rep** 1997 Aug 8;46(31):721–3

Curbs on B6 highlight dietary dilemmas [news] Abbott A. **Nature** 1997 Sep 4;389(6646):7

Changes in blood-brain barrier nutrient transport in the offspring of iodine-deficient rats and their preventability. Sunitha Y, et al. **Neurochem Res** 1997 Jul;22(7):785–90

Folic acid and food fortification: implications for the primary care practitioner. Tinkle M. **Nurse Pract** 1997 Mar; 22(3):105–6, 109, 112–4 (42 ref.)

Protective effects of glutamine enriched diets on acute actinic enteritis. Campos FG, et al. **Nutr Hosp** 1996 May–Jun; 11(3):167–77 (140 ref.)

Preventing iron deficiency through food fortification. Hurrell RF. **Nutr Rev** 1997 Jun;55(6):210–22 (97 ref.)

Creatine is an ergogen for anaerobic exercise. Toler SM. **Nutr Rev** 1997 Jan;55(1 Pt 1):21–3 (25 ref.)

Strategies for the prevention of iron deficiency: iron in infant formulas and baby foods. Ziegler EE, et al. **Nutr Rev** 1996 Nov;54(11 Pt 1):348–54 (32 ref.)

Experimental hepatectomy: the effect on the intestine and influence of various supplements [editorial; comment] Andersson R, et al. **Nutrition** 1997 May;13(5):473–4. Comment on: Nutrition 1997 May;13(5):431–7.

Fish oil as a therapy for lung disease [editorial; comment] Archer SL. **Nutrition** 1996 May;12(5):372–4. Comment on: Nutrition 1996 May;12(5):334–9.

NIH workshop on the role of dietary supplements for physically active people. Bethesda, Maryland, June 3–4, 1996. Glade MJ. **Nutrition** 1997 Mar;13(3):257–62

More attention on oral nutritional supplementation [editorial; comment] Hessov IB. **Nutrition** 1996 Jul–Aug; 12(7–8):554–5. Comment on: Nutrition 1996 Jul–Aug;12(7–8):502–6.

Dietary supplementation at home improves the regain of lean body mass after surgery [see comments] Jensen MB, et al. **Nutrition** 1997 May;13(5):422–30. Comment in: Nutrition 1997 May;13(5):475–6.

A comparison between oral and nasogastric nutritional supplements in malnourished patients [see comments] Mcwhirter JP, et al. **Nutrition** 1996 Jul–Aug;12(7–8):502–6 . Comment in: Nutrition 1996 Jul–Aug;12(7–8):554–5.

Zinc status and serum testosterone levels of healthy adults. Prasad AS, et al. **Nutrition** 1996 May;12(5):344–8

Effect of home supplementation on lean body mass after surgery [editorial; comment] Walters ER, et al. **Nutrition** 1997 May;13(5):475–6. Comment on: Nutrition 1997 May;13(5):422–30.

Folic acid supplementation—when and how. Schwarz RH, et al. **Obstet Gynecol** 1996 Nov;88(5):886–7

Vitamin and mineral supplement prior to and during pregnancy. Menard MK. **Obstet Gynecol Clin North Am** 1997 Sep;24(3):479–98 (21 ref.)

The usefulness of faecal phosphorus and nitrogen in interpreting differences in live-mass gain and the response to P supplementation in grazing cattle in arid regions. Grant CC, et al. **Onderstepoort J Vet Res** 1996 Jun;63(2):121–6

Prevention of secondary hyperparathyroidism and hip fracture in elderly women with calcium and vitamin D3 supplements. Chapuy MC, et al. **Osteoporos Int** 1996;6 Suppl 3:60–3 (22 ref.)

Branched chain amino acids improve body composition and nitrogen balance in a rat model of extra hepatic biliary atresia. Sokal EM, et al. **Pediatr Res** 1996 Jul;40(1):66–71

Relative kinetics of phenylalanine and leucine in low birth weight infants during nutrient administration. van Toledo-Eppinga L, et al. **Pediatr Res** 1996 Jul;40(1):41–6

The effects of nutrient fortification and varying storage conditions on host defense properties of human milk. Jocson MA, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):240–3

Impact of zinc supplementation on morbidity from diarrhea and respiratory infections among rural Guatemalan children. Ruel MT, et al. **Pediatrics** 1997 Jun;99(6):808–13

Predictors of nutritional supplement use by the elderly. Gray SL, et al. **Pharmacotherapy** 1996 Jul–Aug;16(4):715–20

Dietary marine algae promotes efficient deposition of n-3 fatty acids for the production of enriched shell eggs. Herber SM, et al. **Poult Sci** 1996 Dec;75(12):1501–7

Replacement value of betaine for DL-methionine in male broiler chicks. Schutte JB, et al. **Poult Sci** 1997 Feb;

76(2):321–5

Efficacy of supplemental microbial phytase at different dietary calcium levels on growth performance and mineral utilization of broiler chickens. Sebastian S, et al. **Poult Sci** 1996 Dec;75(12):1516–23

The effects of supplemental microbial phytase on the performance and utilization of dietary calcium, phosphorus, copper, and zinc in broiler chickens fed corn–soybean diets. Sebastian S, et al. **Poult Sci** 1996 Jun;75(6):729–36

Effect of diets containing different amounts of precursor and derivative fatty acids on serum TXB2. Pregnolato P, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Nov; 55(5):325–8

Hazard assessment of germanium supplements. Tao SH, et al. **Regul Toxicol Pharmacol** 1997 Jun;25(3):211–9 (62 ref.)

Effect of dietary protein on the regulation of populations of Nematodirus battus by lambs. Israf DA, et al. **Res Vet Sci** 1996 May;60(3):276–7

Effect of supplementary feeding during the sucking period on net absorption from the small intestine of weaned pigs. Nabuurs MJ, et al. **Res Vet Sci** 1996 Jul;61(1):72–7

Trace elements and osteoporosis [letter; comment] [see comments] Wynchank S, et al. **S Afr Med J** 1997 Apr; 87(4):473–4. Comment on: S Afr Med J 1997 Feb;87(2):132–3. Comment in: S Afr Med J 1997 Jul;87(7):902.

Omega-3 fatty acid supplementation does not improve maximal aerobic power, anaerobic threshold and running performance in well-trained soccer players. Raastad T, et al. **Scand J Med Sci Sports** 1997 Feb;7(1):25–31

Dietary L-arginine in renal disease. Peters H, et al. **Semin Nephrol** 1996 Nov;16(6):567–75 (64 ref.)

Effects of supplemental dietary arginine, canola oil, and trace elements on cellular immune function in critically injured patients. Mendez C, et al. **Shock** 1996 Jul;6(1):7–12

Effects of exercise on chromium levels. Is supplementation required? Clarkson PM. **Sports Med** 1997 Jun;23(6):341–9 (48 ref.)

FDA requires manufacturers to fortify grain products with folic acid. Scruggs R. **Tenn Med** 1997 Feb;90(2):60, 64

Dangerously revved. Ephedrine misuse poses health hazards. Jones TL. **Tex Med** 1996 May;92(5):52–3

Small effects of linseed oil or fish oil supplementation on postprandial changes in hemostatic factors. Freese R, et al. **Thromb Res** 1997 Jan 15;85(2):147–52

Immunological findings in groups of children after compensatory measures. Richter J, et al. **Toxicol Lett** 1996 Nov;88(1–3):165–8

Measles vaccine failure not associated with vitamin A supplementation. de Francisco A, et al. **Trans R Soc Trop Med Hyg** 1996 Jul–Aug;90(4):441

Effects of supplementation of molassed natural pasture hay with urea, and of water intake restriction on feed intakes by zebu cattle in the semi-arid zone of Mali. Bartholomew PW, et al. **Trop Anim Health Prod** 1996 May;28(2):191–2

Responses to supplementation in white Fulani cattle under agro–pastoral management in northern Nigeria. I. Phosphorus. Campbell DA, et al. **Trop Anim Health Prod** 1996 May;28(2):183–90

Responses to supplementation in white Fulani cattle under agro–pastoral management in northern Nigeria. II. Fodder. Campbell DA, et al. **Trop Anim Health Prod** 1996 Aug; 28(3):230–6

The effect of cobalt supplementation on the immune response in vitamin B12 deficient Texel lambs. Vellema P, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1–3):151–61

Potential health economic benefits of vitamin supplementation. Bendich A, et al. **West J Med** 1997 May; 166(5):306–12

The 'Are' Sport Nutratherapy Program: the rationale for food supplements in sports medicine. Göransson U, et al. **World Rev Nutr Diet** 1997;82:101–21 (61 ref.)

Dietary thiamin supply during lactation influences thiamin status in lactating rats and their offspring and the thiamin level in milk. Roth-Maier DA, et al. **Z Ernahrungswiss** 1997 Jun;36(2):169–75

[Fortified milk and supplements of oral vitamin D. Comparison of the effect of two doses of vitamin D (500 and 1,000 UI/d) during the first trimester of life] Vervel C, et al. **Arch Pediatr** 1997 Feb;4(2):126–32 (Eng. Abstr.) **(Fre)**

[How can food supplementation to young children be improved?] Gerbouin-Rérolle P. **Sante** 1996 Jul–Aug; 6(4):229–35 (31 ref.) (Eng. Abstr.) **(Fre)**

[Therapy of liver damage in sheep] Fürll M. **Berl Munch Tierarztl Wochenschr** 1996 Oct;109(10):375–80 (Eng. Abstr.) **(Ger)**

[Promotion of wool growth and body weight development of sheep by alimentary supplementation with thiocyanate] Kramer A, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov–Dec;109(11–12):419–27 (Eng. Abstr.) **(Ger)**

[Improving the human iodine supply by iodination of swine feed] Rambeck WA, et al. **Tierarztl Prax** 1997 Jul; 25(4):312–5 (Eng. Abstr.) **(Ger)**

[Results of an open study for evaluating the effectiveness and tolerance of adjuvant administration of the ISF nutrient program in HIV positive patients] Fuchs N, et al. **Wien Med Wochenschr** 1996;146(18):483–93 (Eng. Abstr.) **(Ger)**

[Increased dietary intake of iodine in young people in Mecklenburg-Vorpommern 1993 and 1996] Hampel R, et al. **Z Ernahrungswiss** 1997 Jun;36(2):151–4 (Eng. Abstr.) **(Ger)**

[Effect of various riboflavin supplementations during lactation on riboflavin levels in milk, liver and carcass in lactating rats] Roth-Maier DA, et al. **Z Ernahrungswiss** 1997 Jun;36(2):176–81 (Eng. Abstr.) **(Ger)**

[Results of a dietary survey in adults in Erfurt 1991/92: food and supplement intake] Winkler G, et al. **Z Ernahrungswiss** 1997 Jun;36(2):143–50 (Eng. Abstr.) **(Ger)**

[Nutrition in the first months of life with a new formula containing maltodextrins and enriched with long-chain fatty acids] Cavalli C, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5):473–6 (Eng. Abstr.) **(Ita)**

[Current medical therapies for Crohn's disease in Japan] Munakata A, et al. **Nippon Geka Gakkai Zasshi** 1997 Apr; 98(4):406–11 (Eng. Abstr.) **(Jpn)**

[Clinical use of magnesium] Martyka Z, et al. **Przegl Lek** 1996;53(3):155–8 (18 ref.) (Eng. Abstr.) **(Pol)**

[Fortification of fluid milk for the prevention and treatment of iron deficiency anemia in children under 4 years of age] Torres MA, et al. **Rev Saude Publica** 1996 Aug;30(4):350–7 (Eng. Abstr.) **(Por)**

[The effect of the use of milk fortified with iron and vitamin C on hemoglobin levels and nutritional status of children under 2] Torres MA, et al. **Rev Saude Publica** 1995 Aug; 29(4):301–7 (Eng. Abstr.) **(Por)**

[The possibility of using the alimentary means to correct metabolism in man under stress] Agureev AN, et al. **Aviakosm Ekolog Med** 1996;30(1):26–32 (Eng. Abstr.) **(Rus)**

[A model outline of the organizational and medical measures for the introduction of milk fluoridation projects in different regions of Russia] Kolesnik AG. **Stomatologiia (Mosk)** 1996;Spec No:25–6 **(Rus)**

[Effect of docanol on the status of hemostasis and fibrinolysis systems, as well as lipid spectrum in patients with ischemic heart disease depending on the initial level of fibrinolytic activity] Liutova LV, et al. **Vopr Med Khim** 1996 Jan–Mar; 42(1):64–70 (Eng. Abstr.) **(Rus)**

[Therapeutic–prophylactic milk products with a new immunocorrector of natural origin] Besednova NN, et al. **Vopr Pitan** 1997;(3):31–4 (Eng. Abstr.) **(Rus)**

[A new therapeutic-prophylactic product with an immunomodulating additive] Borovskaia GA, et al. **Vopr Pitan** 1996;(4):28–30 **(Rus)**

[The use of diets incorporating soy products in the treatment of experimental alimentary dystrophy] Bul'on VV, et al. **Vopr Pitan** 1996;(3):38–40 **(Rus)**

[Effect of soybean products on the reproductive system of sexually mature female albino rats] Goncharova EN, et al. **Vopr Pitan** 1997;(1):17–20 (Eng. Abstr.) **(Rus)**

[The effect of vitamin- and beta-carotene-enriched products on the vitamin A allowance and the concentration of different carotenoids of the blood serum in victims of the accident at the Chernobyl Atomic Electric Power Station] Iakushina LM, et al. **Vopr Pitan** 1996;(1):12–5 (Eng. Abstr.) **(Rus)**

[Use of the fish oil "Polyen" in pediatric practice] Ladodo KS, et al. **Vopr Pitan** 1996;(2):22–5 (Eng. Abstr.) **(Rus)**

[Effectiveness of using processed cheese enriched with iodine in the prevention of endemic goiter] Sukhinina SIu, et al. **Vopr Pitan** 1997;(1):21–3 **(Rus)**

[Strategy of development, use and evaluation of the efficiency of biologically active food supplements] Tutel'ian VA. **Vopr Pitan** 1996;(6):3–11 (Eng. Abstr.) **(Rus)**

[The biological value of fermented vitamin-enriched milk products] Vasiukova AT, et al. **Vopr Pitan** 1996;(3):24–5 (Eng. Abstr.) **(Rus)**

[Probiotics and their future] Pardio Sedas VT, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):6–10 (44 ref.) (Eng. Abstr.) **(Spa)**

[Calcium supplements. When to use them? (letter)] Martín Alvarez R, et al. **Aten Primaria** 1996 Dec;18(10):583–4 **(Spa)**

[Effect of dietary supplementation with gamma-linolenic acid on the growth of a human lung carcinoma implanted in nude mice] de Bravo MG, et al. **Medicina (B Aires)** 1995; 55(6):670–4 (Eng. Abstr.) **(Spa)**

[Does genetically altered food cause allergy and poisoning? High safety requirements could eliminate health hazards] Wilhelmson B. **Lakartidningen** 1997 Feb 19;94(8):612–7 **(Swe)**

ADVERSE EFFECTS

FDA proposes constraints on ephedrine dietary supplements [news] **Am J Health Syst Pharm** 1997 Jul 15;54(14):1578

Shark cartilage-induced hepatitis [letter] Ashar B, et al. **Ann Intern Med** 1996 Nov 1;125(9):780–1

Comparison of dietary calcium with supplemental calcium and other nutrients as factors affecting the risk for kidney stones in women [see comments] Curhan GC, et al. **Ann Intern Med** 1997 Apr 1;126(7):497–504. Comment in: Ann Intern Med 1997 Apr 1;126(7):553–5.

Over-the-counter chromium and renal failure [letter] Hathcock JN. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):655

Over-the-counter chromium and renal failure [letter] McCarty MF. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):654–5; discussion 656

Over-the-counter chromium and renal failure [letter] Mennen B. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):655–6

Over-the-counter chromium and renal failure [letter] Michenfelder HJ, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):655–6

Nutritional supplements and surgical patients. Petry JJ. **AORN J** 1997 Jun;65(6):1117–21 (20 ref.)

Comments on the safety of antioxidant vitamin supplementation [letter; comment] Schulz LO. **Arch Intern Med** 1997 Aug 11–25;157(15):1776–7. Comment on: Arch Intern Med 1996 May 13;156(9):925–35.

Experimental studies on bovine Hyena disease induced by administration of excessive vitamin AD3E premix, vitamin A, or vitamin D3. Takaki H, et al. **J Vet Med Sci** 1996 Apr;58(4):311–6

ANALYSIS

Effect of iron and lactose supplementation of milk on the Maillard reaction and tryptophan content. Birlouez-Aragon I, et al. **Food Addit Contam** 1997 May–Jun;14(4):381–8

Extension of dry ash atomic absorption and spectrophotometric methods to determination of minerals and phosphorus in soy-based, whey-based, and enteral formulae (modification of AOAC Official Methods 985.35 and 986.24): collaborative study. Cook KK. **J AOAC Int** 1997 Jul–Aug;80(4):834–44

[Biological quality of a milk substitute for school children based on refined flour subjected to enzymatic hydrolysis] Barrera G, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):90–6 (Eng. Abstr.) **(Spa)**

[Development of products for the elderly population: vitamin enriched pudding] Vera MS, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):63–6 (Eng. Abstr.) **(Spa)**

[Food fortification with calcium] Farías H. **Rev Med Chil** 1996 Aug;124(8 Suppl):97–102 **(Spa)**

ECONOMICS

Preventing the Wernicke–Korsakoff syndrome in Australia: cost–effectiveness of thiamin–supplementation alternatives. Connelly L, et al. **Aust N Z J Public Health** 1996 Apr; 20(2):181–7

The costs and effectiveness of three vitamin A interventions in Guatemala. Phillips M, et al. **Soc Sci Med** 1996 Jun; 42(12):1661–8

HISTORY

Search for the competitive edge: a history of dietary fads and supplements. Applegate EA, et al. **J Nutr** 1997 May; 127(5 Suppl):869S–873S

MICROBIOLOGY

Salmonella java phage type Worksop in young children associated with fresh fortified milk. **Commun Dis Rep CDR Wkly** 1997 Aug 1;7(31):275

POISONING

Gains in bone mineral density with resolution of vitamin D intoxication [see comments] Adams JS, et al. **Ann Intern Med** 1997 Aug 1;127(3):203–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):231–3.

Vitamin D supplementation: a word of caution [editorial; comment] Marriott BM. **Ann Intern Med** 1997 Aug 1; 127(3):231–3. Comment on: Ann Intern Med 1997 Aug 1;127(3):203–6.

From the Centers for Disease Control and Prevention. Adverse events associated with ephedrine–containing products--Texas, December 1993–September 1995. **JAMA** 1996 Dec 4;276(21):1711–2

STANDARDS

Influence of the intake of fortified breakfast cereals on dietary habits and nutritional status of Spanish schoolchildren. Ortega RM, et al. **Ann Nutr Metab** 1996;40(3):146–56

Plasma lipid and apolipoprotein concentrations in full term infants fed formula supplemented with long-chain polyunsaturated fatty acids and cholesterol. Decsi T, et al. **Eur J Pediatr** 1997 May;156(5):397–400

A multicenter evaluation of a proprietary weight loss program for the treatment of marked obesity: a five-year follow-up. Wadden TA, et al. **Int J Eat Disord** 1997 Sep; 22(2):203–12

A randomized, controlled evaluation of two commercially available human breast milk fortifiers in healthy preterm neonates. Sankaran K, et al. **J Am Diet Assoc** 1996 Nov; 96(11):1145–9

Efficacy of supplemental 1 alpha-hydroxycholecalciferol and microbial phytase for young pigs fed phosphorus- or amino acid–deficient corn–soybean meal diets. Biehl RR, et al. **J Anim Sci** 1996 Dec;74(12):2960–6

Delivery method and supplement consumption by grazing ruminants: a review. Bowman JG, et al. **J Anim Sci** 1997 Feb;75(2):543–50 (44 ref.)

Influence of energy supplementation on grazing ruminants: requirements and responses. Caton JS, et al. **J Anim Sci** 1997 Feb;75(2):533–42 (64 ref.)

Soaking increases the efficacy of supplemental microbial phytase in a low-phosphorus corn–soybean meal diet for growing pigs. Liu J, et al. **J Anim Sci** 1997 May; 75(5):1292–8

Mineral status in beef cows fed broiler litter diets with cation–anion differences or supplemented with hay. Rude

BJ, et al. **J Anim Sci** 1997 Mar;75(3):727–35
Regulatory and legal aspects of supplementing grazing ruminants. Sellers R. **J Anim Sci** 1997 Feb;75(2):551–5 (5 ref.)
Effects of quality, quantity, and timing of colostrum feeding and addition of a dried colostrum supplement on immunoglobulin G1 absorption in Holstein bull calves. Morin DE, et al. **J Dairy Sci** 1997 Apr;80(4):747–53
Calcium and phosphate solubility curves for parenteral nutrient solutions containing Vaminolact. Mo-Suwan L, et al. **J Med Assoc Thai** 1997 Aug;80(8):516–20
"Grow dumb along with me". Misuse of DHEA (dehydroepiandrosterone). Mack RB. **N C Med J** 1997 Mar–Apr;58(2):144–6
FDA and Pharmanex clash over dietary supplement [news] **Nat Biotechnol** 1997 Jun;15(6):489
A new procedure to fortify fluid milk and dairy products with high-bioavailable ferrous sulfate. Boccio JR, et al. **Nutr Rev** 1997 Jun;55(6):240–6 (21 ref.)
Food fortification in the United States. Mertz W. **Nutr Rev** 1997 Feb;55(2):44–9 (25 ref.)
Effect of feeding tagernut (Cyperus rotundus, L) meal on the performance of rabbits. Bamgbose AM, et al. **Trop Anim Health Prod** 1997 Feb;29(1):60–2
Nutritional and economic benefits of Leucaena and Gliricidia as feed supplements for small ruminants in humid West Africa. Jabbar MA, et al. **Trop Anim Health Prod** 1997 Feb;29(1):35–47 (44 ref.)

STATISTICS & NUMERICAL DATA

Dietary supplement users: demographics, product use, and medical system interaction. Eliason BC, et al. **J Am Board Fam Pract** 1997 Jul–Aug;10(4):265–71
Use of dietary supplements by patients in a family practice clinic [see comments] Eliason BC, et al. **J Am Board Fam Pract** 1996 Jul–Aug;9(4):249–53. Comment in: J Am Board Fam Pract 1996 Nov–Dec;9(6):466.

UTILIZATION

The prevalence of anaemia and mineral supplement use in a Swedish middle-aged population. Results from the Malmö Diet and Cancer Study. Elmståhl S, et al. **Eur J Clin Nutr** 1996 Jul;50(7):450–5

FOOD, FROZEN see **FROZEN FOODS**

FOOD HABITS

Dietary habits related to caries development and immigrant status in infants and toddlers living in Sweden. Wendt LK, et al. **Acta Odontol Scand** 1995 Dec;53(6):339–44
Food habits and energy and nutrient intake in Swedish adolescents approaching the year 2000 [published erratum appears in Acta Paediatr Suppl 1996 Nov;85(11):1392] Samuelson G, et al. **Acta Paediatr Suppl** 1996 Sep;415:1–19
Nutrition and smoking cessation. Stefanich C. **Alaska Med** 1996 Jan–Mar;38(1):36–7
Nutrition in general practice in Italy. Lupo A. **Am J Clin Nutr** 1997 Jun;65(6 Suppl):1963S–1966S (35 ref.)
The litany of the last meal. Plaisance L. **Am J Nurs** 1997 Mar;97(3):60–1
Do nutrition label readers eat healthier diets? Behavioral correlates of adults' use of food labels. Kreuter MW, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):277–83
Mangabey (Cercocebus albigena) ranging patterns in relation to fruit availability and the risk of parasite infection in Kibale National Park, Uganda. Olupot W, et al. **Am J Primatol** 1997;43(1):65–78
Using a brief household food inventory as an environmental indicator of individual dietary practices [see comments] Patterson RE, et al. **Am J Public Health** 1997 Feb; 87(2):272–5. Comment in: Am J Public Health 1997 Feb;87(2):157–8.
Trends in food consumption in a south German population from 1984/85 to 1989/90: results from the WHO MONICA project Augsburg. Schaeffler V, et al. **Ann Nutr Metab** 1996;40(3):129–36
Dietary change and traditional food systems of indigenous peoples. Kuhnlein HV, et al. **Annu Rev Nutr** 1996;16:417–42 (156 ref.)
Gender difference in cereal intake: possible impacts of social group affiliation and season. Chakrabarty M. **Anthropol Anz** 1996 Dec;54(4):355–60
Impact of changing food choices and eating habits on nutritional status in European countries. **Appetite** 1996 Aug; 27(1):91–4
Eating frequency in the Nationwide Food Consumption Survey (U.S.A.), 1987–1988. Longnecker MP, et al. **Appetite** 1997 Aug;29(1):55–9
Fish consumption by Vietnamese women immigrants: a comparison of methods. Cavan KR, et al. **Arch Environ Health** 1996 Nov–Dec;51(6):452–7
Adolescent vegetarians. A behavioral profile of a school-based population in Minnesota. Neumark-Sztainer D, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):833–8
Water supplementation of infants in the first month of life. Scariati PD, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):830–2
Cardiovascular disease and environmental pollutants: the Arctic aspect. Bjerregaard P. **Arctic Med Res** 1996;55 Suppl 1:25–31 (7 ref.)
Soft drink logos on baby bottles: do they influence what is fed to children? Siener K, et al. **ASDC J Dent Child** 1997 Jan–Feb;64(1):55–60
Hypothesis: UK consumption of dietary lipid hydroperoxides—a possible contributory factor to atherosclerosis [letter] Wolff SP, et al. **Atherosclerosis** 1996 Jan 26;119(2):261–3
Consumption pattern of carotene rich foods and development of a year calendar. Devadas Rajammal P, et al. **Biomed Environ Sci** 1996 Sep;9(2–3):213–22
Age related dietary exposure to meat products from British dietary surveys of teenagers and adults in the 1980s and 1990s. Gore SM, et al. **BMJ** 1997 Aug 16;315(7105):404–5
Prevalence of obesity is low in people who do not eat meat [letter] Key T, et al. **BMJ** 1996 Sep 28;313(7060):816–7
Dietary habits and mortality in 11,000 vegetarians and health conscious people: results of a 17 year follow up [see comments] Key TJ, et al. **BMJ** 1996 Sep 28; 313(7060):775–9. Comment in: **BMJ** 1996 Sep 28;313(7060):765–6. Comment in: BMJ 1997 Jan 11;314(7074):148; discussion 148–9.
Dietary habits and mortality in vegetarians and health conscious people. Weight cannot be interpreted without information on height [letter; comment] Morgan JF. **BMJ** 1997 Jan 11;314(7074):148; discussion 148–9. Comment on: BMJ 1996 Sep 28;313(7060):775–9.
Dietary habits and mortality in vegetarians and health conscious people. Several uncertainties still exist [letter; comment] Ness AR, et al. **BMJ** 1997 Jan 11;314(7074):148; discussion 148–9. Comment on: BMJ 1996 Sep 28;313(7060):775–9.
Blood cadmium, game consumption and tobacco smoking in southern Ontario anglers and hunters. Cole DC, et al. **Can J Public Health** 1997 Jan–Feb;88(1):44–6
Dietary patterns leading to high fat intake. Nolan CC, et al. **Can J Public Health** 1995 Nov–Dec;86(6):389–91
The role of dietary factors in the intestinal and diffuse histologic subtypes of gastric adenocarcinoma: a case-control study in the U.S. Harrison LE, et al. **Cancer** 1997 Sep 15;80(6):1021–8
Diet and the risk of papillary and follicular thyroid carcinoma: a population-based case-control study in Sweden and Norway. Galanti MR, et al. **Cancer Causes Control** 1997 Mar;8(2):205–14
Hierarchical modeling of gene-environment interactions: estimating NAT2 genotype-specific dietary effects on adenomatous polyps. Aragaki CC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):307–14
Meat intake, heterocyclic amines, and risk of breast cancer: a case-control study in Uruguay. De Stefani E, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):573–81
Diet diversity and the risk of colorectal cancer in northern Italy. Fernandez E, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun;5(6):433–6
Correlation between biomarkers of omega-3 fatty acid consumption and questionnaire data in African American and Caucasian United States males with and without prostatic carcinoma. Godley PA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):115–9
High dietary omega-6 polyunsaturated fatty acids drastically increase the formation of etheno-DNA base adducts in white blood cells of female subjects. Nair J, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):597–601
Serum micronutrients and prostate cancer in Japanese Americans in Hawaii. Nomura AM, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):487–91
Use of a food frequency questionnaire to screen for dietary eligibility in a randomized cancer prevention phase III trial. Ritenbaugh C, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):347–54
Correspondence re: J. Shannon et al., Relationship of food groups and water intake to colon cancer risk. Cancer Epidemiol., Biomarkers & Prev., 5: 495–502 [letter] Stookey JD, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug; 6(8):657–8
Effects of frequency of exposure to iron-sucrose on the incidence of dental caries in desalivated rats. Miguel JC, et al. **Caries Res** 1997;31(3):238–43
Stages of change for sugar and fat reduction in an adolescent sample. Watt RG. **Community Dent Health** 1997 Jun; 14(2):102–7
Genetic versus environmental factors in renal stone disease. Jaeger P. **Curr Opin Nephrol Hypertens** 1996 Jul;5(4):342–6 (35 ref.)
Why cardiac patients do not follow the nutritionist's advice: barriers in nutritional advice perceived in rehabilitation. Koikkalainen M, et al. **Disabil Rehabil** 1996 Dec; 18(12):619–23
Dietary habits, pregnancy weight gain and birthweights in a highland population of Kenya [see comments] Perry H, et al. **East Afr Med J** 1996 Jul;73(7):424–6. Comment in: East Afr Med J 1996 Jul;73(7):417–8.
Childhood feeding practice in north Ethiopia. Tessema T, et al. **East Afr Med J** 1997 Feb;74(2):92–5
Association of diet and colorectal adenomatous polyps: dietary fiber, calcium, and total fat. Martínez ME, et al. **Epidemiology** 1996 May;7(3):264–8
The association between fruit and vegetable intake and chronic disease risk factors. Serdula MK, et al. **Epidemiology** 1996 Mar;7(2):161–5
Diet and rheumatoid arthritis in women: a possible protective effect of fish consumption. Shapiro JA, et al. **Epidemiology** 1996 May;7(3):256–63
Dietary habits and geographic variation in stomach cancer mortality in Spain. Corella D, et al. **Eur J Cancer Prev** 1996 Aug;5(4):249–57
Dietary patterns in Europe—preliminary results of dietary habits in the EPIC Study. European Prospective Investigation on Cancer and Nutrition. González CA. **Eur J Cancer Prev** 1997 Apr;6(2):125–6
Meal patterns in obese and normal weight men: the 'Gustaf' study. Andersson I, et al. **Eur J Clin Nutr** 1996 Oct; 50(10):639–46
Comparison of dietary assessment methods in a southern French population: use of weighed records, estimated-diet records and a food-frequency questionnaire. Bonifacj C, et al. **Eur J Clin Nutr** 1997 Apr;51(4):217–31
Iron, folate and vitamin B12 status of an elderly South African population. Charlton KE, et al. **Eur J Clin Nutr** 1997 Jul;51(7):424–30
Cigarette smoking is associated with differences in nutritional habits and related to lipoprotein alterations independently of food and alcohol intake. Dallongeville J, et al. **Eur J Clin Nutr** 1996 Oct;50(10):647–54
Women's dietary fat and sugar intakes: implications for food based guidelines. Flynn MA, et al. **Eur J Clin Nutr** 1996 Nov;50(11):713–9
Infant feeding practices reflect antecedent risk of xerophthalmia in Nepali children. Gittelsohn J, et al. **Eur J Clin Nutr** 1997 Jul;51(7):484–90
Dietary fat reduction achieved by increasing consumption of a starchy food—an intervention study. Kirk TR, et al. **Eur J Clin Nutr** 1997 Jul;51(7):455–61
Eating habits, food and health related attitudes and beliefs reported by French students. Monneuse MO, et al. **Eur J Clin Nutr** 1997 Jan;51(1):46–53
Food patterns associated with intakes of fat, carbohydrate and dietary fibre in a cohort of Danish adults followed for six years. Osler M, et al. **Eur J Clin Nutr** 1997 Jun; 51(6):354–61
Longitudinal changes in dietary habits and attitudes of elderly Europeans. SENECA Investigators. Schlettwein-Gsell, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 2:S56–66
Food patterns of elderly Europeans. SENECA Investigators. Schroll K, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 2:S86–100
Dietary practices and lipid intake in relation to plasma lipid profile in Hong Kong Chinese. Woo J, et al. **Eur J Clin Nutr** 1997 Jul;51(7):467–71
Relationships between childbearing and some food and alcohol habits: the Nordland Health Study. Jacobsen BK. **Eur J Epidemiol** 1996 Aug;12(4):327–30
Mortality trends and past and current dietary factors of breast cancer in Spain. Prieto-Ramos F, et al. **Eur J Epidemiol** 1996 Apr;12(2):141–8
Use of ethnographic methods for applied research on diabetes among the Ojibway-Cree in northern Ontario. Gittelsohn J, et al. **Health Educ Q** 1996 Aug;23(3):365–82
Smoking status, dietary intake, and physical activity in a sample of working adults. French SA, et al. **Health Psychol** 1996 Nov;15(6):448–54
Diet and stomach cancer in Korea. Ahn YO. **Int J Cancer** 1997;Suppl 10:7–9
Food groups and risk of colorectal cancer in Italy. Franceschi S, et al. **Int J Cancer** 1997 Jul 3;72(1):56–61
Diet, nutrition and prostate cancer. Giles G, et al. **Int J Cancer** 1997;Suppl 10:13–7
An ecological study on diet/nutrition and cancer in Japan. Tominaga S, et al. **Int J Cancer** 1997;Suppl 10:2–6
Smoking, alcohol use, dietary factors and risk of small intestinal adenocarcinoma. Wu AH, et al. **Int J Cancer** 1997 Mar 4;70(5):512–7
Association of trans fatty acids (vegetable ghee) and clarified butter (Indian ghee) intake with higher risk of coronary artery disease in rural and urban populations with low fat consumption. Singh RB, et al. **Int J Cardiol** 1996 Oct 25; 56(3):289–98; discussion 299–300
Diet and dietary markers in Kiruna and Uppsala, Sweden—a comparison. Messner T, et al. **Int J Circumpolar Health** 1997 Apr;56(1–2):21–9
Improved eating behavior in eating-disordered inpatients after treatment: documentation in a naturalistic setting. Andersen AE, et al. **Int J Eat Disord** 1996 Dec; 20(4):397–403
Family resemblance in energy and macronutrient intakes: the Stanislas Family Study. Vauthier JM, et al. **Int J Epidemiol** 1996 Oct;25(5):1030–7
A long-term study on the effect of spontaneous consumption of reduced fat products as part of a normal diet on indicators of health. van het Hof KH, et al. **Int J Food Sci Nutr** 1997 Jan;48(1):19–29
Effects of Orem-based nursing intervention on nutritional self-care of myocardial infarction patients. Aish AE, et al. **Int J Nurs Stud** 1996 Jun;33(3):259–70
Role of food familiarity and taste quality in food preferences of individuals with Prader-Willi syndrome. Rankin KM, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):759–62
Nutrition knowledge, eating practices, and health of adolescent female runners: a 3-year longitudinal study. Wiita BG, et al. **Int J Sport Nutr** 1996 Dec;6(4):414–25
Differences in breakfast habits between institutionalized and independent elderly Spanish people. Redondo MR, et al. **Int J Vitam Nutr Res** 1996;66(4):363–70

A 10-year longitudinal study of body weight, dieting, and eating disorder symptoms. Heatherton TF, et al. **J Abnorm Psychol** 1997 Feb;106(1):117-25

Estimated dietary calcium intake and food sources for adolescent females: 1980-92. Albertson AM, et al. **J Adolesc Health** 1997 Jan;20(1):20-6

Dietary intakes of adolescent females consuming vegetarian, semi-vegetarian, and omnivorous diets. Donovan UM, et al. **J Adolesc Health** 1996 Apr;18(4):292-300

Nutritional intake and physical activity in leg ulcer patients. Wissing U, et al. **J Adv Nurs** 1997 Mar;25(3):571-8

Nutrient patterns, nutritional adequacy, and comparisons with nutrition recommendations among French-Canadian adults in Montreal. Ghadirian P, et al. **J Am Coll Nutr** 1996 Jun;15(3):255-63

Use of qualitative and quantitative methods to define behavioral fat-reduction strategies and their relationship to dietary fat reduction in the Patterns of Dietary Change Study. Keenan DP, et al. **J Am Diet Assoc** 1996 Dec; 96(12):1245-50, 1253; quiz 1251-2

Influential factors of caregiver behavior at mealtime: a study of 24 child-care programs. Nahikian-Nelms M. **J Am Diet Assoc** 1997 May;97(5):505-9

Dietary fat intake of patients with heart transplants. Romaine AA, et al. **J Am Diet Assoc** 1996 Oct;96(10):1044-6

Influences of social groups on eating patterns: a study among young adults. Oygard L, et al. **J Behav Med** 1996 Feb; 19(1):1-15

Comparing two strategies to modify dietary behavior and serum cholesterol. Reynolds KD, et al. **J Cardiovasc Risk** 1997 Feb;4(1):1-5

Epidemiological features of first-visit outpatients in Japan: comparison with general population and variation by sex, age, and season. Inoue M, et al. **J Clin Epidemiol** 1997 Jan;50(1):69-77

Potential efficacy of low metal diets and dental metal elimination in the management of atopic dermatitis: an open clinical study. Adachi A, et al. **J Dermatol** 1997 Jan; 24(1):12-9

Validation of simplified diet history questionnaire. Takatsuka N, et al. **J Epidemiol** 1997 Mar;7(1):33-41

Validation of recalled food intake in the past in a Japanese population. Takatsuka N, et al. **J Epidemiol** 1996 Mar; 6(1):9-13

A data-based approach for designing a semiquantitative food frequency questionnaire for a population-based prospective study in Japan. Tsubono Y, et al. **J Epidemiol** 1996 Mar; 6(1):45-53

Bottle-feeding histories of preterm infants. Pickler RH, et al. **J Obstet Gynecol Neonatal Nurs** 1997 Jul-Aug; 26(4):414-20

Gender differences in food-related concerns, beliefs and behaviours of north Queensland adolescents. Nowak M, et al. **J Paediatr Child Health** 1996 Oct;32(5):424-7

Functional units, chewing, swallowing, and food avoidance among the elderly. Hildebrandt GH, et al. **J Prosthet Dent** 1997 Jun;77(6):588-95

Diet in the prevention of cancer: what are the chances of avoidance? Walker AR. **J R Soc Health** 1996 Dec; 116(6):360-6 (82 ref.)

Guidelines for school health programs to promote lifelong healthy eating. **J Sch Health** 1997 Jan;67(1):9-26 (229 ref.)

High blood cadmium levels are not associated with consumption of traditional food among the Inuit of Nunavik. Rey M, et al. **J Toxicol Environ Health** 1997 May; 51(1):5-14

Dietary antioxidants and other dietary factors in the etiology of Parkinson's disease. Scheider WL, et al. **Mov Disord** 1997 Mar;12(2):190-6

Healthy eating in schools and "eating disorders"--are "healthy eating" messages part of the problem or part of the solution? Dixey R. **Nutr Health** 1996;11(1):49-58

Supply and demand: a framework for explaining variability in dietary intake and its impact on data. Joachim G. **Nutr Health** 1997;11(4):289-99 (26 ref.)

Food habits of mothers and children in two regions of Oman. Musaiger AO. **Nutr Health** 1996;11(1):29-48

Dietary assessment of male students: a study of what they wasted while in residence. al-Othman AA, et al. **Nutr Health** 1997;11(3):197-206

Assessment of lifetime patterns of dairy food intake and physical activity. Swan PD, et al. **Nutr Health** 1997; 11(4):255-70

Compliance with the Australian Dietary Guidelines in the early 1990's: have population-based health promotion programs been effective? Turrell G. **Nutr Health** 1997; 11(4):271-88

Results of a community-based campaign to reduce fat intake. Van Wechem SN, et al. **Nutr Health** 1997;11(3):207-18

The impact of a computer-tailored nutrition intervention. Brug J, et al. **Prev Med** 1996 May-Jun;25(3):236-42

Determinants of fat and fiber consumption in American rural energy workers. Kuppens R, et al. **Prev Med** 1996 Mar-Apr;25(2):212-7

Changes in diet in Finland from 1972 to 1992: impact on coronary heart disease risk. Pietinen P, et al. **Prev Med** 1996 May-Jun;25(3):243-50

Preventive nutrition in childhood: a rationale. Deckelbaum RJ. **Public Health Rev** 1996;24(2):105-11 (5 ref.)

Dietary habits in Eastern Germany: changes after reunification and their relation to CHD risk profiles (DRECAN). Jaross W, et al. **Rev Environ Health** 1996 Jan-Jun;11(1-2):27-33

Nutritional behaviour differences in Germany. Thiel C, et al. **Rev Environ Health** 1996 Jan-Jun;11(1-2):35-40

Dietary factors associated with a low risk of colon cancer in coloured west coast fishermen. Schloss I, et al. **S Afr Med J** 1997 Feb;87(2):152-8

Effects of meal frequency on body composition during weight control in boxers. Iwao S, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):265-72

The role of dairy products and non alcoholic beverages in bone fractures among schoolage children. Petridou E, et al. **Scand J Soc Med** 1997 Jun;25(2):119-25

Infant feeding patterns on Mauritius Island, 1991. Grummer-Strawn LM, et al. **Soc Sci Med** 1996 Dec; 43(12):1697-702

Disappearance of differences in nutrient intake across two local cultures in Japan: a comparison between Tokyo and Kyoto. Yamada Y, et al. **Tohoku J Exp Med** 1996 Aug; 179(4):235-45

Lifestyle in Curaçao. Smoking, alcohol consumption, eating habits and exercise. Grol ME, et al. **West Indian Med J** 1997 Mar;46(1):8-14

What food for the heart? [see comments] Gutiérrez Fuentes JA. **World Health Forum** 1996;17(2):157-63. Comment in: World Health Forum 1997;18(1):64-6.

Difficulties of putting dietary changes into practice [letter; comment] Walker AR, et al. **World Health Forum** 1997; 18(1):64-6. Comment on: World Health Forum 1996;17(2):157-63.

Historical development of Chinese dietary patterns and nutrition from the ancient to the modern society. Chen JD, et al. **World Rev Nutr Diet** 1996;79:133-53 (23 ref.)

Traditional diets and meal patterns in South Africa. Labadarios D, et al. **World Rev Nutr Diet** 1996;79:70-108 (94 ref.)

Diet, obesity and risk for renal cell carcinoma: results from a case control-study in Germany. Boeing H, et al. **Z Ernahrungswiss** 1997 Mar;36(1):3-11

[Food consumption of the population. Trends followed via telephone interviews] Haraldsdóttir J, et al. **Ugeskr Laeger** 1996 Dec 16;158(51):7402-6 (Eng. Abstr.) **(Dan)**

[The influence of dietary factors on weight change estimated by the use of multivariate graphical models] Jørgensen LM, et al. **Ugeskr Laeger** 1997 Mar 3;159(10):1443-7 (Eng. Abstr.) **(Dan)**

[The EU campaign for olive oil is oiled with corrupt science (letter)] Marckmann P, et al. **Ugeskr Laeger** 1997 Sep 22; 159(39):5810-1 **(Dan)**

[Food and secondary prevention of ischemic heart disease (editorial)] Nordestgaard BG, et al. **Ugeskr Laeger** 1996 Nov 25;158(48):6881 **(Dan)**

[Food and cancer prevention] Thorling EB. **Ugeskr Laeger** 1997 Aug 4;159(32):4862-3 **(Dan)**

[Variability of home dietary habits of families living in Bamako (Mali) according to their socioeconomic status] Ag Bendech M, et al. **Sante** 1996 Sep-Oct;6(5):285-97 (Eng. Abstr.) **(Fre)**

[Eating behavior of 12-16-year olds of French-speaking Valais: cross-sectional survey among 962 secondary students] Chastonay P, et al. **Soz Praventivmed** 1996; 41(5):280-7 (Eng. Abstr.) **(Fre)**

[Cancer preventive value of natural, non-nutritive food constituents] Fröhlich RH, et al. **Acta Med Austriaca** 1997; 24(3):108-13 (82 ref.) (Eng. Abstr.) **(Ger)**

[Is eating sweets becoming easier now?] Küpper C. **Fortschr Med** 1997 Feb 20;115(5):39-40 **(Ger)**

[Disorders of lipid metabolism--diagnosis and therapy in general practice. 3: Therapy of hypercholesterolemia--non-medicamentous treatment] Richter WO. **Fortschr Med** 1996 May 10;114(13):164-6 **(Ger)**

[Increased dietary intake of iodine in young people in Mecklenburg-Vorpommern 1993 and 1996] Hampel R, et al. **Z Ernahrungswiss** 1997 Jun;36(2):151-4 (Eng. Abstr.) **(Ger)**

[Socioeconomic status, dietary habits and physical activity in overweight/obese children: results of a retrospective study] Petti S, et al. **Ann Ig** 1997 May-Jun;9(3):229-36 **(Ita)**

[Effects of alcohol consumption, smoking, and dietary habits on blood concentrations of lead and cadmium] Roggi C, et al. **Ann Ig** 1996 Nov-Dec;8(6):657-65 **(Ita)**

[Relationship between dietary life style in youth and osteoporosis] Hosokawa M, et al. **Nippon Koshu Eisei Zasshi** 1996 Aug;43(8):606-14 (Eng. Abstr.) **(Jpn)**

[Evaluation of the relation of job stress and food intake to hyperuricemia] Ono K, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):239-46 (Eng. Abstr.) **(Jpn)**

[Characteristics of smoking, drinking, dietary habits, and physical exercise in health behavioral models] Ozasa K, et al. **Nippon Koshu Eisei Zasshi** 1995 Dec;42(12):1029-41 (Eng. Abstr.) **(Jpn)**

[Evaluation of dietary changes during a 10 year observation period of the local Pol-MONICA population in Warsaw with regard to risk of cardiovascular diseases] Waśkiewicz A, et al. **Przegl Lek** 1995;52(11):558-61 (Eng. Abstr.) **(Pol)**

[Nutrition and mortality from some diet-related diseases] Swistak E, et al. **Rocz Panstw Zakl Hig** 1996;47(3):303-12 (Eng. Abstr.) **(Pol)**

[Scurvy, a serious and rare form of avitaminosis, easily diagnosed and treated. Presentation of a case (see comments)] Gil Llano JR, et al. **An Med Interna** 1995 Sep; 12(9):450-2 (Eng. Abstr.). Comment in: An Med Interna 1996 Sep;13(9):462-3. **(Spa)**

[Changes in lipid availability in Venezuela, 1970-1992] Abreu Olivo EA, et al. **Arch Latinoam Nutr** 1994 Dec;44(4):207-22 (Eng. Abstr.) **(Spa)**

[Dietary habits and consumption patterns in a health district] Aroca García MD, et al. **Aten Primaria** 1997 Feb 15; 19(2):72-9 (Eng. Abstr.) **(Spa)**

[Food habits in the school population from rural areas] Pena Blanco G, et al. **Aten Primaria** 1996 Nov 15;18(8):452-6 (Eng. Abstr.) **(Spa)**

[Food consumption, habits, and nutritional status of the population of Reus (VIII). Evolution of energy and nutrient intake from 1983 to 1993] Arija V, et al. **Med Clin (Barc)** 1996 Jan 20;106(2):45-50 (Eng. Abstr.) **(Spa)**

[Impact of a nutrition education program on the lipid profile and food habits of a working adult population] de Dios Sanz JJ, et al. **Nutr Hosp** 1996 Nov-Dec;11(6):334-8 (Eng. Abstr.) **(Spa)**

[Nutrient and food consumption by ages and gender in school children from the Community of Madrid (CAENPE)] Vázquez C, et al. **Rev Clin Esp** 1996 Aug;196(8):501-8 (Eng. Abstr.) **(Spa)**

[Dietary and personal hygiene habits of adolescents in a rural population] Martín Moreno V, et al. **Rev Esp Salud Publica** 1996 May-Jun;70(3):331-43 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

The relationship of gender, diet patterns, and body type to weight change following smoking reduction: a multivariate approach. Gray CL, et al. **J Subst Abuse** 1995;7(4):405-23

Can we make low-fat foods more palatable? [news] **Oncology (Huntingt)** 1997 Aug;11(8):1100

ETHNOLOGY

Health risk behaviors of Hispanics in the United States: findings from HHANES, 1982-84. Marks G, et al. **Am J Public Health** 1990 Dec;80 Suppl:20-6

The role of socioeconomic status and serum fatty acids in the relationship between intake of animal foods and cardiovascular risk factors. Yeh LL, et al. **Ann Epidemiol** 1996 Jul;6(4):290-8

Dietary practices among Europeans and different South Asian groups in Coventry. Simmons D, et al. **Br J Nutr** 1997 Jul;78(1):5-14

Diet and hygiene in the lives of Gypsy Travellers in Hertfordshire. Edwards DM, et al. **Community Dent Health** 1997 Mar;14(1):41-6

The relationship of fluorosis and brick tea drinking in Chinese Tibetans. Cao J, et al. **Environ Health Perspect** 1996 Dec; 104(12):1340-3

Association among health habits, risk factors, and all-cause mortality in a black California population. Fraser GE, et al. **Epidemiology** 1997 Mar;8(2):168-74

Does puberty alter dietary habits in adolescents living in a western society? Clavien H, et al. **J Adolesc Health** 1996 Jul;19(1):68-75

A longitudinal study of the dietary practices of black and white girls 9 and 10 years old at enrollment: the NHLBI Growth and Health Study. McNutt SW, et al. **J Adolesc Health** 1997 Jan;20(1):27-37

Macronutrient intake and blood cholesterol level of a community of Asian Indians living in the United States. Kamath SK, et al. **J Am Diet Assoc** 1997 Mar;97(3):299-301

Assessing fruit and vegetable consumption in a 5 a day study targeting rural blacks: the issue of portion size. Kramish Campbell M, et al. **J Am Diet Assoc** 1996 Oct;96(10):1040-2

Intake of nutrients related to cardiovascular disease risk among three groups of American Indians: the Strong Heart Dietary Study. Zephier EM, et al. **Prev Med** 1997 Jul-Aug; 26(4):508-15

Examining the gender gap in nutrition: an example from rural Mexico. Backstrand JR, et al. **Soc Sci Med** 1997 Jun; 44(11):1751-9

Cultural factors, caloric intake and micronutrient sufficiency in rural Nepali households. Gittelsohn J, et al. **Soc Sci Med** 1997 Jun;44(11):1739-49

Food allocation in rural Peruvian households: concepts and behavior regarding children. Graham MA. **Soc Sci Med** 1997 Jun;44(11):1697-709

Why are boys so small? Child growth, diet and gender near Ranomafana, Madagascar. Hardenbergh SH. **Soc Sci Med** 1997 Jun;44(11):1725-38

Intra-household allocation of food and health care: current findings and understandings--introduction. Messer E. **Soc Sci Med** 1997 Jun;44(11):1675-84 (46 ref.)

Social class, gender and intrahousehold food allocations to children in South Asia. Miller BD. **Soc Sci Med** 1997 Jun; 44(11):1685-95

PHYSIOLOGY

Physical activity and dietary constituents as predictors of forearm cortical and trabecular bone gain in healthy children and adolescents: a prospective study. Gunnes M, et al. **Acta Paediatr** 1996 Jan;85(1):19-25

Influence of the intake of fortified breakfast cereals on dietary habits and nutritional status of Spanish schoolchildren. Ortega RM, et al. **Ann Nutr Metab** 1996;40(3):146–56

Effect of physical exercise on renal response to head–out water immersion. Rim H, et al. **Appl Human Sci** 1997 Jan; 16(1):35–43

High and low fat consumers, their macronutrient intake and body mass index: further analysis of the National Diet and Nutrition Survey of British Adults. Macdiarmid JI, et al. **Eur J Clin Nutr** 1996 Aug;50(8):505–12

Nutrient density estimates from an average of food frequency and food records correlate well with serum concentration of vitamins E and the carotenoids in free–living adults. Dixon ZR, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):477–84

The effects of exercise intensity on body composition, weight loss, and dietary composition in women. Bryner RW, et al. **J Am Coll Nutr** 1997 Feb;16(1):68–73

Differences in diet and food habits between patients with gallstones and controls. Ortega RM, et al. **J Am Coll Nutr** 1997 Feb;16(1):88–95

Fat as a risk factor for overconsumption: satiation, satiety, and patterns of eating. Blundell JE, et al. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S63–9 (42 ref.)

Food preference and acceptance of novel foods by lambs depend on the composition of the basal diet. Wang J, et al. **J Anim Sci** 1996 Oct;74(10):2349–54

Effects of dietary sodium substitution with potassium and magnesium in hypertensive type II diabetics: a randomised blind controlled parallel study. Gilleran G, et al. **J Hum Hypertens** 1996 Aug;10(8):517–21

A comparison of food habit and food frequency data as predictors of breast cancer in the NHANES I/NHEFS cohort. Byrne C, et al. **J Nutr** 1996 Nov;126(11):2757–64

A clinical trial of the effects of dietary patterns on blood pressure. DASH Collaborative Research Group [see comments] Appel LJ, et al. **N Engl J Med** 1997 Apr 17; 336(16):1117–24. Comment in: N Engl J Med 1997 Aug 28;337(9):636–7; discussion 637–8. Comment in: N Engl J Med 1997 Aug 28;337(9):637; discussion 637–8.

Psychophysical responses to single and multiple presentations of the oral irritant zingerone: relationship to frequency of chili consumption. Prescott J, et al. **Physiol Behav** 1996 Aug;60(2):617–24

Breakfasts with different fiber and macronutrient contents do not differentially affect timing, size or microstructure of the subsequent lunch. Silberbauer C, et al. **Z Ernahrungswiss** 1996 Dec;35(4):356–68

[Methods of nutrient intake and nutritional status of the elderly in Poland on the basis of the literature from the years 1980–1996] Wierzbicka E, et al. **Rocz Panstw Zakl Hig** 1997;48(1):87–102 (62 ref.) (Eng. Abstr.) **(Pol)**

[Cardiovascular risk factors in healthy adult men: influence of physical activity and dietary habits] Dadán S, et al. **Rev Med Chil** 1996 Aug;124(8):911–7 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Late adolescents' perceptions of their caregiver's feeding styles and practices and those they will use with their own children. Fletcher J, et al. **Adolescence** 1997 Summer; 32(126):287–98

Body dissatisfaction as a mediator of the relationship between dietary restraint and bulimic eating patterns. Ricciardelli LA, et al. **Appetite** 1997 Aug;29(1):43–54

Social effects on duration in restaurants. Sommer R, et al. **Appetite** 1997 Aug;29(1):25–30

Application of a behavioral approach to measuring dietary change: the fat– and fiber–related diet behavior questionnaire. Shannon J, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):355–61

Eating style in seasonal affective disorder: who will gain weight in winter? Kräuchi K, et al. **Compr Psychiatry** 1997 Mar–Apr;38(2):80–7

Stages of dietary change among nationally–representative samples of adults in the European Union. de Graaf C, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S47–56

Perceived need to alter eating habits among representative samples of adults from all member states of the European Union. Kearney M, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S30–5

Difficulties in trying to eat healthier: descriptive analysis of perceived barriers for healthy eating. Lappalainen R, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S36–40

Effects of an obesity prevention program on the eating behavior of African American mothers and daughters. Stolley MR, et al. **Health Educ Behav** 1997 Apr; 24(2):152–64

Restrained and unrestrained females' positive and negative associations with specific foods and body parts. Gattellari M, et al. **Int J Eat Disord** 1997 May;21(4):377–83

The nutrient intake of women with bulimia nervosa. Gendall KA, et al. **Int J Eat Disord** 1997 Mar;21(2):115–27

Familial eating concerns and psychopathological traits: causal implications of transgenerational effects. Steiger H, et al. **Int J Eat Disord** 1996 Mar;19(2):147–57

The validity of a short food frequency questionnaire and its ability to measure changes in food intake: a longitudinal study. Osler M, et al. **Int J Epidemiol** 1996 Oct;25(5):1023–9

Restraint, dieting, and the continuum model of bulimia nervosa. Lowe MR, et al. **J Abnorm Psychol** 1996 Nov; 105(4):508–17

Covariations of eating behaviors with other health–related behaviors among adolescents. Neumark–Sztainer D, et al. **J Adolesc Health** 1997 Jun;20(6):450–8

Effect of parental mental health status on adolescents' dietary behaviors. Su LJ, et al. **J Adolesc Health** 1997 Jun; 20(6):426–33

A two–factor model of dietary restraint. Ricciardelli LA, et al. **J Clin Psychol** 1997 Feb;53(2):123–31

Food– and weight–related attitudes in obese persons: a longitudinal study over two years following biliopancreatic diversion. Adami G, et al. **J Psychosom Res** 1996 Jul; 41(1):31–8

Psychiatric aspects of food–related physical symptoms: a community study. Peveler R, et al. **J Psychosom Res** 1996 Aug;41(2):149–59

Applying the stages–of–change model to dietary change. Ni Mhurchu C, et al. **Nutr Rev** 1997 Jan;55(1 Pt 1):10–6 (24 ref.)

Why do pouched mice (Saccostomus campestris) hoard food? Ellison GT. **Physiol Behav** 1996 Feb;59(2):375–81

The influence of food on pain perception in healthy human volunteers. Zmarzty SA, et al. **Physiol Behav** 1997 Jul; 62(1):185–91

Psychosocial and cognitive factors associated with adherence to dietary and fluid restriction regimens by people on chronic haemodialysis. Sensky T, et al. **Psychother Psychosom** 1996;65(1):36–42

Effects of parity and weaning practices on breastfeeding duration. Hill P, et al. **Public Health Nurs** 1997 Aug; 14(4):227–34

Concern about nutrition and its relation to the food habits of a group of young university students from Madrid (Spain). Ortega RM, et al. **Z Ernahrungswiss** 1997 Mar; 36(1):16–22

FOOD HANDLING

see related

MAILLARD REACTION

Effect of processing on fumonisin content of corn. Murphy PA, et al. **Adv Exp Med Biol** 1996;392:323–34 (21 ref.)

Occupational asthma to lobster and shrimp. Lemière C, et al. **Allergy** 1996 Apr;51(4):272–3

The medical and epidemiologic effects on workers of the levels of airborne Thermoactinomyces Spp. spores present in Australian raw sugar mills. Dawson MW, et al. **Am Ind Hyg Assoc J** 1996 Nov;57(11):1002–12

Airborne aflatoxin in the grain processing industries in India. Ghosh SK, et al. **Am Ind Hyg Assoc J** 1997 Aug; 58(8):583–6

Outbreaks of Escherichia coli O157:H7 infection associated with drinking unpasteurized apple cider—October 1996. Update on emerging infections from the Centers for Disease Control and Prevention. **Ann Emerg Med** 1997 May; 29(5):645–6

Faulty sausage production causing methaemoglobinaemia. Kennedy N, et al. **Arch Dis Child** 1997 Apr;76(4):367–8

The effect of soaking time on water absorption and solid losses of whole and dehulled soybeans. Cabral LC, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):46–9

Effects of dehulling and storage conditions on cooking requirements and chemical composition of soybeans. Cabral LC, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):36–40

Effects of dehulling, cooking and storage conditions on protein quality and digestibility of soybeans. Cabral LC, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):41–5

Effects of processing on antinutritional factors in legumes: the soybean case. Liener IE. **Arch Latinoam Nutr** 1996 Dec; 44(4 Suppl 1):48S–54S

The effects of alpha–tocopherol addition on oxidative stability of whole milk powder. McCluskey S, et al. **Biochem Soc Trans** 1997 Feb;25(1):145S

The possible role of aminopeptidases from starter culture Lactococcus lactis subspecies cremoris AM2 in cheese making. McDonnell M, et al. **Biochem Soc Trans** 1997 Feb; 25(1):119S

Fall in cholesterol after changes in composition of cooking oil in Mauritius [letter; comment] Chandrasekharan N, et al. **BMJ** 1997 Feb 15;314(7079):516. Comment on: BMJ 1995 Nov 11;311(7015):1255–9. Comment on: BMJ 1996 Oct 26;313(7064):1044–6.

Incorporation of n–3 polyunsaturated fatty acids into processed foods [editorial; comment] Gibney MJ. **Br J Nutr** 1997 Aug;78(2):193–5. Comment on: Br J Nutr 1997 Aug;78(2):223–6.

Use of manufactured foods enriched with fish oils as a means of increasing long–chain n–3 polyunsaturated fatty acid intake [see comments] Lovegrove JA, et al. **Br J Nutr** 1997 Aug;78(2):223–36. Comment in: Br J Nutr 1997 Aug;78(2):193–5.

Acceleration of post–mortem changes in Tsaiya duck (Anas platyrhynchos) breast muscle by lactic acid marination. Chou RG, et al. **Br Poult Sci** 1997 Mar;38(1):78–83

Food fermentation: a safety and nutritional assessment. Joint FAO/WHO Workshop on Assessment of Fermentation as a Household Technology for Improving Food Safety. Motarjemi Y, et al. **Bull World Health Organ** 1996; 74(6):553–9

Invasive infection due to Streptococcus iniae: a new or previously unrecognized disease—Ontario, 1995–1996. Weinstein M, et al. **Can Commun Dis Rep** 1996 Aug 1; 22(15):129–31; discussion 131–2 **(Eng, Fre)**

Decomposition of anticarcinogen factors of the beetroot during juice and nectar production. Pátkai G, et al. **Cancer Lett** 1997 Mar 19;114(1–2):105–6

Product quality and food processing: how to quantify the healthiness of a product. van Boekel MA, et al. **Cancer Lett** 1997 Mar 19;114(1–2):65–9

Flavonoids as bioactive components in apple products. van der Sluis AA, et al. **Cancer Lett** 1997 Mar 19;114(1–2):107–8

Effects of processing conditions on glucosinolates in cruciferous vegetables. Verkerk R, et al. **Cancer Lett** 1997 Mar 19;114(1–2):193–4

Occupational dermatitis—what's new? Catering industry. Wood BP, et al. **Clin Dermatol** 1997 Jul–Aug;15(4):567–71 (37 ref.)

Scombrotoxicosis–like illness following the ingestion of smoked salmon that demonstrated low histamine levels and high toxicity on mouse bioassay. Gessner BD, et al. **Clin Infect Dis** 1996 Dec;23(6):1316–8

Four outbreaks of Salmonella enteritidis phage type 4 food poisoning linked to a single baker. Wight JP, et al. **Commun Dis Rep CDR Rev** 1996 Jul 19;6(8):R112–5

Occupational contact dermatitis from anethole in food handlers. García–Bravo B, et al. **Contact Dermatitis** 1997 Jul;37(1):38

Nonthermal pasteurization of liquid foods using high–intensity pulsed electric fields. Qin BL, et al. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):603–27 (50 ref.)

The effects of processing on the occurrence of ochratoxin A in cereals. Alldrick AJ. **Food Addit Contam** 1996;13 Suppl:27–8 (8 ref.)

Fate of ochratoxin A on processing of meat products. Gareis M. **Food Addit Contam** 1996;13 Suppl:35–7 (6 ref.)

Determination of low nanogram/millilitre levels of volatile organic compounds in on–purpose and by–product hydrochloric acids. Nyman PJ. **Food Addit Contam** 1996 Aug–Sep;13(6):705–15

The effects of milling and processing on wheat contaminated with ochratoxin A. Osborne BG, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):141–53

Effects of processing and detoxification treatments on ochratoxin A: introduction. Scott PM. **Food Addit Contam** 1996;13 Suppl:19–21 (18 ref.)

Ochratoxin A in animal feed—effects of processing. Scudamore KA. **Food Addit Contam** 1996;13 Suppl:39–42 (14 ref.)

Fate of ochratoxin A during breadmaking. Subirade I. **Food Addit Contam** 1996;13 Suppl:25–6 (3 ref.)

Fate of ochratoxin A (OTA) during processing of coffee. Cooperative work by PEC (Physiological Effects of Coffee committee). Viani R. **Food Addit Contam** 1996;13 Suppl:29–33 (15 ref.)

Effect of commercial marinades on the mutagenic activity, sensory quality and amount of heterocyclic amines in chicken grilled under different conditions. Tikkanen LM, et al. **Food Chem Toxicol** 1996 Aug;34(8):725–30

Effect of cereal fibre source and processing on rectal epithelial cell proliferation. Macrae FA, et al. **Gut** 1997 Aug;41(2):239–44

Prevalence of hepatitis A antibodies in food handlers in Italy. Angelillo IF, et al. **Infection** 1996 Mar–Apr;24(2):147–50

Risk factors for Raynaud's phenomenon among workers in poultry slaughterhouses and canning factories. Kaminski M, et al. **Int J Epidemiol** 1997 Apr;26(2):371–80

Changes in microbial populations on fresh cut spinach. Babic I, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):107–19

The sub–typing of Listeria monocytogenes isolates from food, environments surrounding food manufacturing sites, and clinical samples in New Zealand using multilocus enzyme electrophoresis. Flint SH, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):349–55

Processing and storage of lye–treated carrots fermented by a mixed starter culture. Montaño A, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):83–90

Food products and consumer protection: a conceptual approach and a glossary of terms. Notermans S, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):175–85

Available lysine in dried milk after processing. El SN, et al. **Int J Food Sci Nutr** 1997 Mar;48(2):109–11

Kinetics of starch gelatinization during extrusion of tarhana, a traditional turkish wheat flour–yogurt mixture. Ibanoglu S, et al. **Int J Food Sci Nutr** 1997 May;48(3):201–4

Glycemic response to malted, popped and roller dried wheat–legume based foods in normal subjects. Sumathi A, et al. **Int J Food Sci Nutr** 1997 Mar;48(2):103–7

The corporate assault on the Food and Drug Administration. Nixon R. **Int J Health Serv** 1996;26(3):561–8 (18 ref.)

Effectiveness of consumer labels for the safety of foods of animal origin. Altekruse SF. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2056

Effects of electrical stimulation and postmortem storage on changes in titin, nebulin, desmin, troponin–T, and muscle ultrastructure in Bos indicus crossbred cattle. Ho CY, et al. **J Anim Sci** 1997 Feb;75(2):366–76

N–nitrosodibenzylamine in boneless hams processed in elastic rubber nettings. Fiddler W, et al. **J AOAC Int** 1997 Mar–Apr;80(2):353–8

Homogeneity of fruits and vegetables comminuted in a vertical cutter mixer. Young SJ, et al. **J AOAC Int** 1996 Jul–Aug;79(4):976–80

An outbreak of acute diarrheal diseases caused by E. coli in a tea garden of upper Assam. Nayak HK, et al. **J Commun Dis** 1996 Sep;28(3):209–11

Effects of heat treatment and physical processing of cottonseed on nutrient digestibility and production performance by lactating cows. Pires AV, et al. **J Dairy Sci** 1997 Aug;80(8):1685–94

Intestinal parasites among food–handlers in Qualyobia Governorate, with reference to the pathogenic parasite blastocystis hominis. Sadek Y, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):471–8

Enterotoxin production by Staphylococcus aureus clones and detection of Brazilian epidemic MRSA clone (III::B:A) among isolates from food handlers. Soares MJ, et al. **J Med Microbiol** 1997 Mar;46(3):214–21

Extrusion and boiling improve rat body weight gain and plasma cholesterol lowering ability of peas and chickpeas. Wang YH, et al. **J Nutr** 1996 Dec;126(12):3054–62

AIDS and the food handler [news] **J R Soc Health** 1996 Aug;116(4):209

Putting money where the US mouth is: initiative on food safety gets under way [news] Marwick C. **JAMA** 1997 May 7;277(17):1340–2

From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Jun 4;277(21):1664

New approaches for detecting and curtailing foodborne microbial infections [news] Stephenson J. **JAMA** 1997 May 7;277(17):1337, 1339–40

Vibrio infection in Israel due to changes in fish marketing [letter] Bisharat N, et al. **Lancet** 1996 Dec 7; 348(9041):1585–6

Dynamics of fluid/particulate mixtures in tube flow. McCarthy KL, et al. **Magn Reson Imaging** 1996; 14(7–8):995–7

Foodborne disease: emerging problems and solutions. Desmarchelier PM. **Med J Aust** 1996 Dec 2–16; 165(11–12):668–71

Long–term changes of cockroach infestations in Czech and Slovak food–processing plants. Stejskal V, et al. **Med Vet Entomol** 1996 Jan;10(1):103–4

Biofilms associated with poultry processing equipment. Lindsay D, et al. **Microbios** 1996;86(347):105–16

Efficiency of some technological processes on reducing the residues of malathion and pirimiphos methyl in mature broad bean seeds. Kamil ME, et al. **Nahrung** 1996 Oct; 40(5):277–81

Effect of some factors used to the chicken meat preservation and processing on the protease activity. Przysiezna E, et al. **Nahrung** 1996 Aug;40(4):200–5

Enzyme exposure and enzyme sensitisation in the baking industry. Vanhanen M, et al. **Occup Environ Med** 1996 Oct; 53(10):670–6

Safe lead abatement at a major food processing plant. Nace P. **Occup Health Saf** 1996 Oct;65(10):194–6

Effect of processing on nutrient composition and anti–nutritive substances of African locust bean (Parkia filicoidea) and baobab seed (Adansonia digitata). Addy EO, et al. **Plant Foods Hum Nutr** 1995 Sep;48(2):113–7

The fate of beta–carotene in processed leaves of fluted pumpkin (Telfairia occidentalis hook. f.): a popular vegetable in Nigerian diet. Badifu GI, et al. **Plant Foods Hum Nutr** 1995 Sep;48(2):141–7

Nutrient and nutritional evaluation of sinasin prepared in two ways. Chibuzo EC, et al. **Plant Foods Hum Nutr** 1996 Feb; 49(2):139–45

Phytic acid, in vitro protein digestibility, dietary fiber, and minerals of pulses as influenced by processing methods. Chitra U, et al. **Plant Foods Hum Nutr** 1996 Jun; 49(4):307–16

Effect of processing on protein digestibility, biological value and net protein utilization of millet and legume based infant mixes and biscuits. Geervani P, et al. **Plant Foods Hum Nutr** 1996 Apr;49(3):221–7

Physical and nutritional qualities of extruded weaning foods containing sorghum, pearl millet, or finger millet blended with mung beans and nonfat dried milk. Malleshi NG, et al. **Plant Foods Hum Nutr** 1996 Apr;49(3):181–9

Functional suitability of commercially milled rice bran in India for use in different food products. Sekhon KS, et al. **Plant Foods Hum Nutr** 1997;50(2):127–40

Levels of antinutritional factors in pearl millet as affected by processing treatments and various types of fermentation. Sharma A, et al. **Plant Foods Hum Nutr** 1996 Apr; 49(3):241–52

The influence of micronization, dehulling, and enzyme supplementation on the nutritional value of peas for laying hens. Igbasan FA, et al. **Poult Sci** 1997 Feb;76(2):331–7

Identification of a starting point of breast skin tears during chicken plucking. Pitcovski J, et al. **Poult Sci** 1997 Feb; 76(2):405–9

A prolonged outbreak of streptococcal infection among workers at a meat plant. Sims P, et al. **Public Health** 1996 Mar;110(2):81–4

Parasitic contamination of stored water used for drinking/cooking in Hyderabad. Jonnalagadda PR, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):789–94

Cooking and freezing may not protect against allergenic reactions to ingested Anisakis simplex antigens in humans. Audicana L, et al. **Vet Rec** 1997 Mar 1;140(9):235

Is there any possibility of detecting the use of genetic engineering in processed foods? Greiner R, et al. **Z Ernahrungswiss** 1997 Jun;36(2):155–60

Analysis of free amino acids in green coffee beans. II. Changes of the amino acid content in arabica coffees in connection with post–harvest model treatment. Arnold U, et al. **Z Lebensm Unters Forsch** 1996 Oct;203(4):379–84

Effects of blanching, freezing and freeze–drying on the fatty acid contents of green beans. Gonzalez–Castro MY, et al. **Z Lebensm Unters Forsch** 1996 Oct;203(4):370–3

[The dimension of animal carcass disposal in Germany and Europe— quantification and differentiation] Böhm R. **DTW Dtsch Tierarztl Wochenschr** 1997 Jul;104(7):232–8 (Eng. Abstr.) **(Ger)**

[Testing for food allergy in dyshidrotic eczema (letter)] Lischka G. **Hautarzt** 1996 Jan;47(1):65 **(Ger)**

[Content of trans–fatty acids in convenience food] Henninger M, et al. **Z Ernahrungswiss** 1997 Jun;36(2):161–8 (Eng. Abstr.) **(Ger)**

[Characterization of low molecular weight zinc species in normal commercial vegetable foodstuffs] Waldner H, et al. **Z Lebensm Unters Forsch** 1996 Mar;202(3):256–62 (Eng. Abstr.) **(Ger)**

[Prevalence of hepatitis A virus antibodies in food handlers] Romano F, et al. **Ann Ig** 1996 Jul–Aug;8(4):419–23 (Eng. Abstr.) **(Ita)**

[Repetitive movement of the upper limbs: results of exposure evaluation and clinical investigation in cash register operators in supermarkets] Panzone I, et al. **Med Lav** 1996 Nov–Dec;87(6):634–9 (Eng. Abstr.) **(Ita)**

[Investigation in a slaughter house and processing of pork meat. Repetitive task work and osteo–articular and musculotendinous pathology of the upper limbs] Rovetta S, et al. **Med Lav** 1996 Nov–Dec;87(6):693–703 (Eng. Abstr.) **(Ita)**

[Evaluation and control of the microbiological quality of hands in foodhandlers] Almeida RC, et al. **Rev Saude Publica** 1995 Aug;29(4):290–4 (Eng. Abstr.) **(Por)**

[Occurrence of Campylobacter spp among food handlers in hospital kitchens in urban areas of the southern region of Brazil] Tosin I, et al. **Rev Saude Publica** 1995 Dec; 29(6):472–7 (Eng. Abstr.) **(Por)**

[Manufacture of a freeze dried stew for mountaineers] de Penna EW, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):67–75 (Eng. Abstr.) **(Spa)**

[Preservation and stability of corn tortillas at room temperature] Higuera–Ciapara I, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):122–7 (Eng. Abstr.) **(Spa)**

[Development of an intermediate moisture product for the elderly based on texturized soybeans] Morales de León JC, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):329–35 (Eng. Abstr.) **(Spa)**

[Prevalence of Staphylococcus aureus among food handlers from a metropolitan university in Chile] Soto A, et al. **Rev Med Chil** 1996 Sep;124(9):1142–6 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Thermal processing of foods, a retrospective, Part II: On–line methods for ensuring commercial sterility. Ramesh MN, et al. **Adv Appl Microbiol** 1997;44:315–45 (60 ref.)

METHODS

Nutritional composition of home–prepared baby meals in Madrid. Comparison with commercial products in Spain and home–made meals in England. van den Boom S, et al. **Acta Paediatr** 1997 Jan;86(1):57–62

Microstructure of white and dark turkey meat batters as affected by pH. Barbut S. **Br Poult Sci** 1997 May; 38(2):175–82

Spread of an enteric 'marker' organism during evisceration of New York dressed poultry in a simulated kitchen environment. Mead GC, et al. **Br Poult Sci** 1997 May; 38(2):195–8

Effect of the method of killing, interval between killing and neck cutting and blood vessels cut on blood loss in broilers. Raj AB, et al. **Br Poult Sci** 1997 May;38(2):190–4

Effects of food intake, soaking time, enzyme and cornflour addition on the digestibility of the diet and performance of broilers given wet food. Yalda AY, et al. **Br Poult Sci** 1996 Sep;37(4):797–807

Loss and/or formation of antioxidants during food processing and storage. Nicoli MC, et al. **Cancer Lett** 1997 Mar 19; 114(1–2):71–4

Combination of preservation factors applied to minimal processing of foods. Tapia de Daza MS, et al. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):629–59 (133 ref.)

Effects of cooking and storage methods on the micronutrient content of foods. Severi S, et al. **Eur J Cancer Prev** 1997 Mar;6 Suppl 1:S21–4 (15 ref.)

Microbiological analysis of 'black pudding', a Trinidadian delicacy and health risk to consumers. Adesiyun AA, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):283–99

Use of total of Escherichia coli counts to assess the hygienic characteristics of a beef carcass dressing process. Gill CO, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):181–96

Studies on production, physiochemical and sensory properties of a standard kilishi ingredient mix powder. Badau MH, et al. **Int J Food Sci Nutr** 1997 May;48(3):165–8

Some chemical and physical properties of bambara groundnut (Voandzeia subterranea Thouars) seed and products. Enwere NJ, et al. **Int J Food Sci Nutr** 1996 Nov; 47(6):469–75

Milling reduces the goitrogenic potential of cassava. Mlingi ML, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):445–54

Allergenicity of gourmet nut oils processed by different methods. Teuber SS, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):502–7

Analysis of the decision to select a conventional or cook–chill system for hospital foodservice. Nettles MF, et al. **J Am Diet Assoc** 1997 Jun;97(6):626–31

Influence of dietary forage level and forage coarseness of grind on growth performance and digestive function in feedlot steers. Calderon–Cortes JF, et al. **J Anim Sci** 1996 Oct;74(10):2310–6

Soaking increases the efficacy of supplemental microbial phytase in a low–phosphorus corn–soybean meal diet for growing pigs. Liu J, et al. **J Anim Sci** 1997 May; 75(5):1292–8

Evaluation of corn and sorghum distillers byproducts. Lodge SL, et al. **J Anim Sci** 1997 Jan;75(1):37–43

Incubation temperature effects on physical characteristics of normal, dark, firm and dry, and halothane–carrier pork longissimus. McCaw J, et al. **J Anim Sci** 1997 Jun; 75(6):1547–52

Calcium chloride injection and degree of doneness effects on the sensory characteristics of beef inside round roasts. Milligan SD, et al. **J Anim Sci** 1997 Mar;75(3):668–72

Urea in dry–rolled corn diets: finishing steer performance, nutrient digestion, and microbial protein production. Milton CT, et al. **J Anim Sci** 1997 May;75(5):1415–24

Effect of storage temperature and time on fiber content of fresh and ensiled alfalfa. Nelson ML, et al. **J Anim Sci** 1996 Jul;74(7):1689–93

Nutritional value for swine of soybean meal produced by isopropyl alcohol extraction. O'Quinn PR, et al. **J Anim Sci** 1997 Mar;75(3):714–9

The effect of grain source and grain processing on performance of feedlot cattle: a review. Owens FN, et al. **J Anim Sci** 1997 Mar;75(3):868–79 (33 ref.)

Performance of growing lambs fed two levels of concentrate with conventional or macerated timothy hay. Petit HV, et al. **J Anim Sci** 1997 Mar;75(3):598–603

Grain processing: effects on mixing, prehension, and other characteristics of feeds. Pritchard RH, et al. **J Anim Sci** 1997 Mar;75(3):880–4 (19 ref.)

Comment on the paper "Improving tenderness of normal and callipyge lambs with calcium chloride" [letter] Rumsey TS. **J Anim Sci** 1997 Jul;75(7):1987–8

The hydrodyne: a new process to improve beef tenderness. Solomon MB, et al. **J Anim Sci** 1997 Jun;75(6):1534–7

Comparative ruminal and total tract digestion of a finishing diet containing fresh vs air–dry steam–flaked corn. Zinn RA, et al. **J Anim Sci** 1997 Jul;75(7):1704–7

Influence of flake density on the comparative feeding value of a barley–corn blend for feedlot cattle. Zinn RA, et al. **J Anim Sci** 1997 Apr;75(4):904–9

The hygienic efficiency of conventional and inverted lamb dressing systems. Bell RG, et al. **J Appl Bacteriol** 1996 Sep;81(3):225–34

Effects on nutrient digestion of wheat processing and methods of tallow addition to the diets of lactating dairy cows. Espindola MS, et al. **J Dairy Sci** 1997 Jun; 80(6):1160–71

Probiotic fermentation: effect on antinutrients and digestibility of starch and protein of indigenously developed food mixture. Binita R, et al. **Nutr Health** 1997; 11(3):139–47

Prevention of nutrient loss during preparation of the most popular weaning diet in Nigeria—practical considerations. Ojofeitimi EO, et al. **Nutr Health** 1996;11(2):127–32

A new procedure to fortify fluid milk and dairy products with high–bioavailable ferrous sulfate. Boccio JR, et al. **Nutr Rev** 1997 Jun;55(6):240–6 (21 ref.)

Factors affecting storability of apples in Syria. Al–Bachir M. **Plant Foods Hum Nutr** 1995 Oct;48(3):259–67

Effect of Egyptian cooking methods of faba beans on its nutritive value, dietary protein utilization and iron deficiency anemia. 1. The role of main technological pretreatments. Bakr AA. **Plant Foods Hum Nutr** 1996 Jan; 49(1):83–92

Effects of soaking, cooking and fermentation on composition, in–vitro starch digestibility and nutritive value of common beans. Barampama Z, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):349–65

Effects of altitude above sea level on the cooking time and nutritional value of common beans. Bressani R, et al. **Plant Foods Hum Nutr** 1996 Jan;49(1):53–61

Effect of domestic processing on the cooking time, nutrients, antinutrients and in vitro protein digestibility of the African yambean (Sphenostylis stenocarpa). Ene–obong HN, et al. **Plant Foods Hum Nutr** 1996 Jan;49(1):43–52

Effect of traditional processing of cassava on the cyanide content of gari and cassava flour. Kemdirim OC, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):335–9

Proximate composition and mineral content of selected Tanzanian vegetables and the effect of traditional processing on the retention of ascorbic acid, riboflavin and thiamine. Mosha TC, et al. **Plant Foods Hum Nutr** 1995 Oct;48(3):235–45

Composition and functional properties of cholesterol reduced egg yolk. Awad AC, et al. **Poult Sci** 1997 Apr;76(4):649–53

Egg handling and storage. Brake J, et al. **Poult Sci** 1997 Jan; 76(1):144–51 (84 ref.)

Effect of muscle opposition during rigor on development of broiler breast meat tenderness. Cason JA, et al.

Poult Sci 1997 May;76(5):785–7

Effects of acetic acid and hydrogen peroxide application during defeathering on the microbiological quality of broiler carcasses prior to evisceration. Dickens JA, et al. **Poult Sci** 1997 Apr;76(4):657–60

Optimum duration of feed and water removal prior to processing in order to reduce the potential for fecal contamination in turkeys. Duke GE, et al. **Poult Sci** 1997 Mar;76(3):516–22

Pulsed light and pulsed electric field for foods and eggs. Dunn J. **Poult Sci** 1996 Sep;75(9):1133–6 (0 ref.)

Development of further processed poultry products [letter] Essary EO. **Poult Sci** 1997 May;76(5):788

Supplementation of broiler diets with all-rac-alpha- or a mixture of natural source RRR-alpha-,gamma-,delta-tocopheryl acetate. 2. Effect on the oxidative stability of raw and precooked broiler meat products. Jensen C, et al. **Poult Sci** 1995 Dec; 74(12):2048–56

Effects of post-mortem time before chilling and chilling temperatures on water-holding capacity and texture of turkey breast muscle. Lesiak MT, et al. **Poult Sci** 1997 Mar; 76(3):552–6

Protein quality and calcium availability from extruded and autoclaved turkey hatchery residue. Lilburn MS, et al. **Poult Sci** 1997 Jun;76(6):841–8

Texture evaluations of cooked, diced broiler breast samples by sensory and mechanical methods. Lyon BG, et al. **Poult Sci** 1996 Jun;75(6):812–9

Innovative methods of energy transfer. McBee LE. **Poult Sci** 1996 Sep;75(9):1137–40 (24 ref.)

The effect of thermal processing and enzyme treatments of soybean meal on growth performance, ileal nutrient digestibilities, and chyme characteristics in broiler chicks. Marsman GJ, et al. **Poult Sci** 1997 Jun;76(6):864–72

Carcass yield and weep loss from fast-food cuts after processing broilers using extremes in stunning current and slush-ice chilling. Moran ET Jr, et al. **Poult Sci** 1996 Jun; 75(6):809–12

Effect of cloacal plugging on microbial recovery from partially processed broilers. Musgrove MT, et al. **Poult Sci** 1997 Mar;76(3):530–3

Tenderizing spent fowl meat with calcium chloride. 1. Effects of delivery method and tumbling. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):534–7

Tenderizing spent fowl meat with calcium chloride. 2. The role of delayed application and ionic strength. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):538–42

Tenderizing spent fowl meat with calcium chloride. 3. Biochemical characteristics of tenderized breast meat. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):543–7

Muscle metabolism and meat quality of Pectoralis from turkeys treated with postmortem electrical stimulation. Owens CM, et al. **Poult Sci** 1997 Jul;76(7):1047–51

The response of broiler chickens and turkey poults to steam-pelleted diets supplemented with fat or carbohydrates. Plavnik I, et al. **Poult Sci** 1997 Jul; 76(7):1006–13

The effect of evisceration on visible contamination and the microbiological profile of fresh broiler chicken carcasses using the Nu-Tech Evisceration System or the conventional Streamlined Inspection System. Russell SM, et al. **Poult Sci** 1997 May;76(5):780–4

Thermal and biological treatments to control psychrotrophic pathogens. Sheldon BW, et al. **Poult Sci** 1996 Sep; 75(9):1126–32 (45 ref.)

Pasteurization of eggs in the shell. Stadelman WJ, et al. **Poult Sci** 1996 Sep;75(9):1122–5

Introduction to egg pasteurization. Vandepopuliere JM. **Poult Sci** 1996 Sep;75(9):1121

High temperature processing effects on the properties of fowl meat gels. Voller-Reasonover L, et al. **Poult Sci** 1997 May; 76(5):774–9

Effect of processing systems on protein quality of feather meals and hog hair meals. Wang X, et al. **Poult Sci** 1997 Mar;76(3):491–6

Tenderizing spent fowl meat with calcium chloride. 4. Improved oxidative stability and the effects of additional aging. Woods KL, et al. **Poult Sci** 1997 Mar;76(3):548–51

Effects of stunning duration on quality characteristics of early deboned chicken fillets. Young LL, et al. **Poult Sci** 1997 Jul;76(7):1052–5

Different techniques of food preparation and cooking: implication for dietary surveys. Bergström IL. **Proc Nutr Soc** 1996 Jul;55(2):671–8 (19 ref.)

The concentration of creatine in meat, offal and commercial dog food. Harris RC, et al. **Res Vet Sci** 1997 Jan–Feb; 62(1):58–62

[Conventional and alternative types of animal carcass disposal] Küttler D. **DTW Dtsch Tierarztl Wochenschr** 1997 Jul;104(7):239–45 (Eng. Abstr.) **(Ger)**

[Cará-de-rama (Dioscorea bulbifera, L) fried processing] Ferreira SM. **Arch Latinoam Nutr** 1995 Jun;45(2):128–33 (Eng. Abstr.) **(Por)**

[The disinfection of fish in the family Cyprinidae of Opisthorchis felineus Riv. metacercariae by the combined use of acetic acid and table salt] Zviagina VV, et al. **Med Parazitol (Mosk)** 1997 Jan–Mar;(1):9–12 (Eng. Abstr.) **(Rus)**

[Evaluation of biological fish silage in broiler chicken] Bello RA, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):134–9 (Eng. Abstr.) **(Spa)**

STANDARDS

Safe poultry meat production in the next century. Mulder RW. **Acta Vet Hung** 1997;45(3):307–15 (9 ref.)

Food safety regulation: reforming the Delaney Clause. Merrill RA. **Annu Rev Public Health** 1997;18:313–40 (70 ref.)

Haemolytic-uraemic syndrome: of sausages and legislation [editorial; comment] Beers M. **Aust N Z J Public Health** 1996 Oct;20(5):453–5. Comment on: Aust N Z J Public Health 1996 Oct;20(5):457–62. Comment on: Aust N Z J Public Health 1996 Oct;20(5):462–6.

Salmonella in retail poultry in Northern Ireland. Wilson IG, et al. **Commun Dis Rep CDR Rev** 1996 Mar 29;6(4):R64–6

Heat transfer and lethality considerations in aseptic processing of liquid/particle mixtures: a review. Ramaswamy HS, et al. **Crit Rev Food Sci Nutr** 1997 Apr; 37(3):253–86 (163 ref.)

Street foods. Report of an FAO technical meeting. Calcutta, India. 6–9 November 1995. United Nations. **FAO Food Nutr Pap** 1997;63:1–76 **(Eng, Fre, Spa)**

The safety assessment of novel foods. Guidelines prepared by ILSI Europe Novel Food Task Force. Jonas DA, et al. **Food Chem Toxicol** 1996 Oct;34(10):931–40

Quantitative risk analysis and the production of microbiologically safe food: an introduction. Notermans S, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):3–7

Microbial quality of lamb carcasses during processing and the acridine orange direct count technique (a modified DEFT) for rapid enumeration of total viable counts. Sierra ML, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):61–7

Practice points: translating research into practice. Attention to food safety should not wait for a crisis. Hess MA. **J Am Diet Assoc** 1997 Jun;97(6):625

Community food systems: working toward a sustainable future. Peters J. **J Am Diet Assoc** 1997 Sep;97(9):955–6 (10 ref.)

International meat and poultry HACCP alliance. Cross HR. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2048

Neglected but common sense steps to prevent foodborne illness [news] Reed CA, et al. **J Am Vet Med Assoc** 1996 Sep 15;209(6):1053

Pre-harvest food safety as part of a farm-to-table pathogen reduction program to prevent foodborne disease [letter; comment] Tollefson L, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):718–21. Comment on: J Am Vet Med Assoc 1996 Jun 15;208(12):1964–5.

A comparison of Warner-Bratzler shear force assessment within and among institutions. Wheeler TL, et al. **J Anim Sci** 1997 Sep;75(9):2423–32

Effect of household preparation on levels of pesticide residues in produce. Schattenberg HJ 3rd, et al. **J AOAC Int** 1996 Nov-Dec;79(6):1447–53

The provision of food and catering services in hospital. Barrie D. **J Hosp Infect** 1996 May;33(1):13–33 (70 ref.)

Enhancing taste, texture, appearance, and presentation of pureed food improved resident quality of life and weight status. Cassens D, et al. **Nutr Rev** 1996 Jan;54(1 Pt 2):S51–4

Effect of high levels of dietary iron, iron injection, and dietary vitamin E on the oxidative stability of turkey meat during storage. Bartov I, et al. **Poult Sci** 1996 Aug; 75(8):1039–46

The effect of refrigerated and frozen storage on populations of mesophilic and coliform bacteria on fresh broiler chicken carcasses. Russell SM. **Poult Sci** 1995 Dec;74(12):2057–60

Spoilage bacteria of fresh broiler chicken carcasses. Russell SM, et al. **Poult Sci** 1995 Dec;74(12):2041–7

The effect of temperature mishandling at various times during storage on detection of temperature abuse of fresh broiler chicken carcasses. Russell SM, et al. **Poult Sci** 1996 Feb; 75(2):261–4

Changes of bromopropylate and carbendazim residues during processing of apples into apple puree. Sadło S. **Rocz Panstw Zakl Hig** 1996;47(3):273–6

Kitchen hygiene [letter] Leslie NW. **Vet Rec** 1997 Apr 12; 140(15):408

Establishment of microbiological safety criteria for foods in international trade. International Commission on Microbiological Specifications for Foods. **World Health Stat Q** 1997;50(1–2):119–23 (2 ref.)

Improving the safety of street-vended food. Moy G, et al. **World Health Stat Q** 1997;50(1–2):124–31 (8 ref.)

Modernizing food control systems: the experience of Thailand. Pothisiri P. **World Health Stat Q** 1997; 50(1–2):150–4 (6 ref.)

[Hygiene and microbiologic quality of ice creams produced in Cameroon. A public health problem] Wouafo MN, et al. **Bull Soc Pathol Exot** 1996;89(5):358–62 (Eng. Abstr.) **(Fre)**

[Food hygiene aspects in the production of food fish in fishing] Hörmansdorfer S, et al. **Berl Munch Tierarztl Wochenschr** 1997 Mar;110(3):96–101 (Eng. Abstr.) **(Ger)**

[Alternatives to presently established forms of animal body removal-- tolerated, intended and feared?] Kamphues J. **DTW Dtsch Tierarztl Wochenschr** 1997 Jul;104(7):257–60 (Eng. Abstr.) **(Ger)**

STATISTICS & NUMERICAL DATA

Thermal processing of foods, a retrospective, Part I: Uncertainties in thermal processing and statistical analysis. Ramesh MN, et al. **Adv Appl Microbiol** 1997;44:287–314 (90 ref.)

[Repetitive movement of the upper limbs: results of a current exposure evaluation and a clinical investigation in workers employed in the preparation of pork meat in the province of Modena] Ghersi R, et al. **Med Lav** 1996 Nov-Dec; 87(6):656–74 (Eng. Abstr.) **(Ita)**

FOOD, HEALTH see **HEALTH FOOD**

FOOD HYPERSENSITIVITY

Food allergy in atopic dogs. Frick OL. **Adv Exp Med Biol** 1996;409:1–7 (9 ref.)

Food hypersensitivity and allergic disease: a selective review. Chandra RK. **Am J Clin Nutr** 1997 Aug;66(2):526S–529S (14 ref.)

Mechanisms of food allergy. Sampson HA, et al. **Annu Rev Nutr** 1996;16:161–77 (83 ref.)

The establishment of an animal model for the screening of food products with potentially allergenic constituents. Miller K, et al. **Biochem Soc Trans** 1997 May;25(2):376S

Urticaria from beer in 3 patients. Santucci B, et al. **Contact Dermatitis** 1996 May;34(5):368

Allergic reactions to foods. Anderson JA. **Crit Rev Food Sci Nutr** 1996;36 Suppl:S19–38 (125 ref.)

Food-associated gastrointestinal disease. James JM, et al. **Curr Opin Pediatr** 1996 Oct;8(5):471–5 (27 ref.)

Screening for latent gluten sensitivity: questions many, but answers few [editorial; comment] Marsh MN. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):3–6. Comment on: Eur J Gastroenterol Hepatol 1996 Jan;8(1):15–21.

Lupin-based food [news] Marrs T. **Health Bull (Edinb)** 1996 Sep;54(5):366–7

Histamine containing food: establishment of a German Food Intolerance Databank (NFID). Diel E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S87–8

New directions in food allergy research. Plaut M. **J Allergy Clin Immunol** 1997 Jul;100(1):7–10

Effect of technological treatments on digestibility and allergenicity of meat-based baby foods. Restani P, et al. **J Am Coll Nutr** 1997 Aug;16(4):376–82

Meat allergy: III--Proteins involved and cross-reactivity between different animal species. Restani P, et al. **J Am Coll Nutr** 1997 Aug;16(4):383–9

When food can kill. McKevitt KV. **Mich Med** 1997 Feb; 96(2):16–9

Proceedings of the 6th International Symposium on Immunological and Clinical Problems of Food Allergy. Lugano, Switzerland, September 24–26, 1995. **Monogr Allergy** 1996;32:1–259

Formulae odds and ends. Aiges H. **Pediatr Rev** 1997 Mar; 18(3):84–5

The new South African food intolerance databank (FIDB). **S Afr Med J** 1996 Apr;86(4 Suppl):472

Food allergy. Rumsaeng V, et al. **Semin Gastrointest Dis** 1996 Jul;7(3):134–43 (94 ref.)

[Questions about transgenic foods--importance and/or dangers-- importance of research on unexpected cross-reactions] Sabbah A. **Allerg Immunol (Paris)** 1996 Oct;28(8):288–9 (0 ref.) **(Fre)**

[Food allergy: recent findings] Furcolo G, et al. **Pediatr Med Chir** 1996 Nov-Dec;18(6):551–7 (66 ref.) (Eng. Abstr.) **(Ita)**

[Food allergy and its role in gastrointestinal diseases] Santos Vicente J. **Rev Esp Enferm Dig** 1997 Jul;89(7):551–8 (58 ref.) (Eng. Abstr.) **(Spa)**

[Allergic reactions to peanuts and soya. The life-threatening/fatal cases can be prevented] Kjellman NI, et al. **Lakartidningen** 1997 Jul 23;94(30–31):2633–4 (11 ref.) **(Swe)**

BLOOD

IgE and mast cell response on intestinal allergen exposure: a murine model to study the onset of food allergy. van Halteren AG, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):94–9

IL-4 and IFN-gamma level in blood serum of children with food allergy. Hofman T. **Rocz Akad Med Bialymst** 1995; 40(3):462–7

The level of interleukine-2 (IL-2) in blood serum in children with food sensitive atopic dermatitis. Szczepański M, et al. **Rocz Akad Med Bialymst** 1995;40(3):692–5

[Eosinophilic cationic protein levels in feces and serum in children with food allergies] Kósa L, et al. **Orv Hetil** 1997 Feb 9;138(6):345–7 (Eng. Abstr.) **(Hun)**

CLASSIFICATION

Classification of adverse reactions to food. Guarnaccia S, et al. **Pediatr Allergy Immunol** 1995;6 Suppl 8:13–19 (58 ref.)

COMPLICATIONS

Allergy to pine nuts in a bird fancier. Jansen A, et al. **Allergy** 1996 Oct;51(10):741–4

Nonmigrainous headache from food allergy. Stefanini GF, et al. **Allergy** 1996 Sep;51(9):657–8

Asthma after consumption of snails in house-dust-mite-allergic patients: a case of IgE cross-reactivity. van Ree R, et al. **Allergy** 1996 Jun; 51(6):387–93

Anaphylaxis induced by exercise and related to multiple food intake. Caffarelli C, et al. **Allergy Asthma Proc** 1997 Jul–Aug;18(4):245–8

Food plus exercise plus anaphylaxis: theories and challenge [editorial] Fink JN. **Allergy Asthma Proc** 1997 Jul–Aug; 18(4):249

Cooccurrence of latex and fruit allergies. Freeman GL. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):85–8 (30 ref.)

Allergic eustachian tube dysfunction: diagnosis and treatment. Derebery MJ, et al. **Am J Otol** 1997 Mar; 18(2):160–5

Pulmonary hemosiderosis with hypersensitivity to buckwheat. Agata H, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):233–7

Ethanol–induced anaphylaxis following ingestion of overripe rock melon, Cucumis melo. Mallon DF, et al. **Ann Allergy Asthma Immunol** 1997 Mar;78(3):285–6

Effect of cow milk on pulmonary function in atopic asthmatic patients. Nguyen MT. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):62–4

Food related, exercise induced anaphylaxis. Caffarelli C, et al. **Arch Dis Child** 1996 Aug;75(2):141–4

Patients' perceptions of food–induced asthma. Woods RK, et al. **Aust N Z J Med** 1996 Aug;26(4):504–12

Food–dependent exercise–induced anaphylaxis due to matsutake mushrooms [letter] Okano M, et al. **Br J Dermatol** 1997 May;136(5):805

Scurvy, osteoporosis and megaloblastic anaemia due to alleged food intolerance [letter] Barratt JA, et al. **Br J Rheumatol** 1996 Jul;35(7):701–2

Does food intolerance play a role in juvenile chronic arthritis? Schrander JJ, et al. **Br J Rheumatol** 1997 Aug; 36(8):905–8 (41 ref.)

Ingested food in systemic allergic contact dermatitis. Veien NK. **Clin Dermatol** 1997 Jul–Aug;15(4):547–55 (128 ref.)

Life–threatening, recurrent anaphylaxis caused by allergy to gliadin and exercise. Varjonen E, et al. **Clin Exp Allergy** 1997 Feb;27(2):162–6

Acute pancreatitis associated with food allergy [letter] Iwata F, et al. **Eur J Pediatr** 1997 Jun;156(6):506

Topographic mapping of brain electrical activity in children with food–induced attention deficit hyperkinetic disorder. Uhlig T, et al. **Eur J Pediatr** 1997 Jul;156(7):557–61

Irritable bowel syndrome and food allergy: an association via anxiety–depression? [letter; comment] Addolorato G, et al. **Gastroenterology** 1996 Sep;111(3):833–4. Comment on: Gastroenterology 1995 Dec;109(6):1736–41. Comment on: Gastroenterology 1995 Dec;109(6):2029–31.

Does gluten sensitivity always imply celiac disease? [letter; comment] Bai JC, et al. **Gastroenterology** 1997 Feb; 112(2):671–2. Comment on: Gastroenterology 1996 Aug;111(2):318–24.

Eosinophil–derived proteins in postprandial (food–dependent) exercise–induced anaphylaxis. Romano A, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):505–11

Use of thrombospondin level to predict the clinical course of atopic dermatitis associated with food hypersensitivity or skin infection. Huang SW, et al. **J Dermatol Sci** 1996 Jan;11(1):59–63

Skin manifestations and immunological parameters in childhood food allergy. Oehling A, et al. **J Investig Allergol Clin Immunol** 1997 May–Jun;7(3):155–9

Food sensitivity and the pathogenesis of atopic dermatitis. Sampson HA. **J R Soc Med** 1997;90 Suppl 30:2–8 (56 ref.)

Celiac disease: a food allergy? Contra! Bahna SL. **Monogr Allergy** 1996;32:211–5 (22 ref.)

Serous otitis media and food allergy. Bellanti JA, et al. **Monogr Allergy** 1996;32:188–94

Food allergy in patients with gastrointestinal disease. Bischoff SC, et al. **Monogr Allergy** 1996;32:130–42 (35 ref.)

Food allergy in adults with atopic dermatitis. de Maat–Bleeker F, et al. **Monogr Allergy** 1996;32:157–63

Irritable bowel: a food allergy? Gallo C, et al. **Monogr Allergy** 1996;32:198–203 (18 ref.)

Coeliac disease: a food allergy? Hed J. **Monogr Allergy** 1996; 32:204–10 (44 ref.)

Otitis serosa: a food allergy? Høst A. **Monogr Allergy** 1996; 32:195–7 (9 ref.)

Diseases of the gastrointestinal tract of children caused by immune reactions to foods. Sampson HA. **Monogr Allergy** 1996;32:36–48 (77 ref.)

Food allergy and infantile autism. Lucarelli S, et al. **Panminerva Med** 1995 Sep;37(3):137–41

The potential role of gastroesophageal reflux in the pathogenesis of food–induced wheezing. Meer S, et al. **Pediatr Allergy Immunol** 1996 Nov;7(4):167–70

Allergy to food in children with pollinosis. Buczyłko K, et al. **Rocz Akad Med Bialymst** 1995;40(3):568–72

Therapeutic effectiveness of treatment with an elimination diet in children with atopic dermatitis of different ages. Olendzka–Rzepecka E, et al. **Rocz Akad Med Bialymst** 1995;40(3):602–6

Analysis of causes which intensify the skin symptoms in food allergy. Uścinowicz M, et al. **Rocz Akad Med Bialymst** 1995;40(3):538–43

Food hypersensitivity and headaches in children and youth. Zagórecka E, et al. **Rocz Akad Med Bialymst** 1995; 40(3):550–6

Haematological reactions in children with food allergy. Zapolska B, et al. **Rocz Akad Med Bialymst** 1995; 40(3):557–60

Self–reported food reactions and their associations with asthma. Emery NL, et al. **West J Nurs Res** 1996 Dec; 18(6):643–54

[Asthma caused by food allergy] Moneret–Vautrin DA, et al. **Rev Med Interne** 1996;17(7):551–7 (73 ref.) (Eng. Abstr.) **(Fre)**

[Cerebral venous thrombosis in a child with iron deficiency anemia caused by food allergy] Repetto T, et al. **Pediatr Med Chir** 1997 Mar–Apr;19(2):133–4 (Eng. Abstr.) **(Ita)**

[Role of food in atopic eczema] Dotterud LK. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3335–40 (59 ref.) (Eng. Abstr.) **(Nor)**

[The analysis of causes that intensify skin clinical symptoms in patients with food allergy] Uścinowicz M, et al. **Pediatr Pol** 1996 Feb;71(2):93–6 (Eng. Abstr.) **(Pol)**

DIAGNOSIS

How well does a history of seafood allergy predict the likelihood of an adverse reaction to i.v. contrast material? Leder R. **AJR Am J Roentgenol** 1997 Sep;169(3):906–7

Immediate hypersensitivity reaction to date. Gonzalo MA, et al. **Allergy** 1997 May;52(5):598–9

IgE–mediated hypersensitivity to custard–apple. Gonzalo MA, et al. **Allergy** 1997 May;52(5):597

Honey allergy and rhinitis in Ankara, Turkey. Kalyoncu AF. **Allergy** 1997 Aug;52(8):876–7

Copro–eosinophil cationic protein (ECP) in food allergy. Kósa L, et al. **Allergy** 1996 Dec;51(12):964–6

Oral allergy syndrome to a jackfruit (Artocarpus integrifolia). Wüthrich B, et al. **Allergy** 1997 Apr;52(4):428–31

Pulmonary hemosiderosis with hypersensitivity to buckwheat. Agata H, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):233–7

Food allergy in human immunodeficiency virus (HIV) infection. Tubiolo VC, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):209–12

Intestinal inflammation in children with atopic eczema: faecal eosinophil cationic protein and tumour necrosis factor–alpha as non–invasive indicators of food allergy. Majamaa H, et al. **Clin Exp Allergy** 1996 Feb;26(2):181–7

Food intolerance (food hypersensitivity) and chronic complaints in children: the parents' perception. Aardoom HA, et al. **Eur J Pediatr** 1997 Feb;156(2):110–2

Double blind, placebo controlled food reactions do not correlate to IgE allergy in the diagnosis of staple food related gastrointestinal symptoms. Bengtsson U, et al. **Gut** 1996 Jul;39(1):130–5

Colonoscopic allergen provocation (COLAP): a new diagnostic approach for gastrointestinal food allergy. Bischoff SC, et al. **Gut** 1997 Jun;40(6):745–53

Clinical significance of the colonoscopic allergen provocation test. Bischoff SC, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):348–51

Severe allergic reactions to foods are predicted by increases of CD4+CD45RO+ T cells and loss of L–selectin expression. Beyer K, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):522–9

Intradermal skin tests in the diagnostic evaluation of food allergy [letter; comment] Sampson HA, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):714–5. Comment on: J Allergy Clin Immunol 1995 Sep;96(3):434.

Scombroid fish poisoning: a potentially life–threatening allergic–like reaction. Sánchez–Guerrero IM, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):433–4

Peanut allergy [editorial] Douglas RG, et al. **Med J Aust** 1997 Jan 20;166(2):63–4

Allergenicity of foods derived from transgenic plants. Astwood JD, et al. **Monogr Allergy** 1996;32:105–20

What do we at present know about the ALCAT test and what is lacking? Bindslev–Jensen C, et al. **Monogr Allergy** 1996;32:228–32 (5 ref.)

Some limitations in the use of specific IgE in the diagnosis of food hypersensitivity. Bindslev–Jensen C, et al. **Monogr Allergy** 1996;32:216–20 (6 ref.)

Food allergy in adults with atopic dermatitis. de Maat–Bleeker F, et al. **Monogr Allergy** 1996;32:157–63

Comparison of the results of skin prick tests, CAP system and ENEA system in the diagnosis of food allergy. Ispano M, et al. **Monogr Allergy** 1996;32:181–6

Specific IgG antibodies as markers of adverse reactions to foods. Marinkovich V. **Monogr Allergy** 1996;32:221–5 (7 ref.)

Specific IgG antibodies as markers of adverse reactions to food. Contra! Wüthrich B. **Monogr Allergy** 1996;32:226–7 (10 ref.)

Votes in percent in the session on 'controversial aspects in diagnosis and treatment of food allergy and intolerance'. Wüthrich B. **Monogr Allergy** 1996;32:253–4

Food challenge procedures in research and in clinical practice. Bahna SL. **Pediatr Allergy Immunol** 1995;6 Suppl 8:49–53 (30 ref.)

Skin tests in the diagnosis of food allergy. Dreborg S. **Pediatr Allergy Immunol** 1995;6 Suppl 8:38–43 (29 ref.)

Labial food challenge in children with food allergy. Rance F, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):41–4

Clinical manifestations of adverse food reactions. Sampson HA. **Pediatr Allergy Immunol** 1995;6 Suppl 8:29–37 (56 ref.)

Might laboratory tests other than RAST help in diagnosing food allergy? Ventura A, et al. **Pediatr Allergy Immunol** 1995;6 Suppl 8:44–8 (70 ref.)

Prevalence of food allergy and intolerance in children based on MAST CLA and ALCAT tests. Buczyłko K, et al. **Rocz Akad Med Bialymst** 1995;40(3):452–6

[Acute or chronic food allergy: adapted therapeutic and diagnostic procedures] Drouet M. **Allerg Immunol (Paris)** 1997 May;29(5):129–30, 133–6 (Eng. Abstr.) **(Fre)**

[Clinical signs of food allergy] Le Sellin J. **Allerg Immunol (Paris)** 1997 Jun;29(6):165–8 (Eng. Abstr.) **(Fre)**

[Immunobiologic diagnosis of food allergy] Sabbah A, et al. **Allerg Immunol (Paris)** 1997 Apr;29(4):103–7 (Eng. Abstr.) **(Fre)**

[Apropos of peanut allergy (letter; comment)] de Montis G. **Arch Pediatr** 1996 Jun;3(6):608. Comment on: Arch Pediatr 1996 Jan;3(1):91–2. **(Fre)**

[Testing for food allergy in dyshidrotic eczema (letter)] Lischka G. **Hautarzt** 1996 Jan;47(1):65 **(Ger)**

[Eosinophilic gastroenteritis in food allergy] Pfaffenbach B, et al. **Z Gastroenterol** 1996 Aug;34(8):490–3 (Eng. Abstr.) **(Ger)**

[Correlation of interleukin–2 (IL–2) responsiveness by egg white–stimulated lymphocytes with hen egg oral provocation test in atopic children] Noma T, et al. **Arerugi** 1996 Jul;45(7):660–71 (Eng. Abstr.) **(Jpn)**

[Evaluation of the RAST in the diagnosis of children with food allergy] Medina RR, et al. **Rev Alerg Mex** 1996 Jan–Feb;43(1):9–12 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Metabolic alkalosis [letter; comment] D'Eufemia P, et al. **Acta Paediatr** 1996 Dec;85(12):1518. Comment on: Acta Paediatr 1995 Jan;84(1):103–5.

Diet regimen in the treatment of food allergy. Bernardini R, et al. **Ann Ist Super Sanita** 1995;31(4):481–8 (44 ref.)

Probiotics: a novel approach in the management of food allergy. Majamaa H, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):179–85

The dietetic and nutritional management of food allergy. Baker HB, et al. **J R Soc Med** 1997;90 Suppl 30:45–50 (8 ref.)

ALCAT Test results in the treatment of respiratory and gastrointestinal symptoms, arthritis, skin and central nervous system. Mylek D. **Rocz Akad Med Bialymst** 1995; 40(3):625–9

Therapeutic effectiveness of treatment with an elimination diet in children with atopic dermatitis of different ages. Olendzka–Rzepecka E, et al. **Rocz Akad Med Bialymst** 1995;40(3):602–6

[Effect of an oligo–antigen diet on the behavior of hyperkinetic children] Schulte–Körne G, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):176–83 (Eng. Abstr.) **(Ger)**

[Evaluation of IGF1 and IGFBP3 during diet therapy in patients with food allergy with complex nutritional risk] La Grutta S, et al. **Minerva Pediatr** 1996 Jul–Aug; 48(7–8):303–7 (Eng. Abstr.) **(Ita)**

[Dietary therapy used for food allergy in infants and young children] Rudzka–Kańtoch Z. **Pediatr Pol** 1996 Jan; 71(1):41–5; discussion 45–6 (17 ref.) (Eng. Abstr.) **(Pol)**

[The characteristics of diet therapy for children with a food allergy] Borovik TE. **Vopr Pitan** 1996;(5):71–3 **(Rus)**

DRUG THERAPY

Cetirizine: effective treatment for food (egg) allergy. Shaikh WA. **Allergy** 1996 Apr;51(4):275–6

[Energetic treatment of food hypersensitivity (interview by Dr. rer. nat. T. U. Keil)] Schmidt W, et al. **Fortschr Med** 1996 Aug 30;114(24):48 **(Ger)**

[The effect of a protein concentrate from milk whey and its fractions on the macromolecular permeability of the intestinal barrier in rats with experimental food anaphylaxis] Gmoshinskiĭ IV, et al. **Vopr Pitan** 1996;(1):3–6 (Eng. Abstr.) **(Rus)**

[Anaphylaxis in severe food allergy. Adrenaline injection is safer than inhalation] Foucard T, et al. **Lakartidningen** 1997 Apr 16;94(16):1478, 1483 **(Swe)**

ENZYMOLOGY

Analysis and characteristics of mast cell tryptase and eosinophilic cationic protein from human gut mucosa in gastrointestinal allergy. Raithel M, et al. **Monogr Allergy** 1996;32:143–56

The disaccharidase activity of jejunal mucosa in children with malabsorption syndrome caused by food intolerance. Kaczmarski M. **Rocz Akad Med Bialymst** 1995;40(3):504–11

EPIDEMIOLOGY

Prevalence of adverse reactions to food in patients with gastrointestinal disease. Bischoff SC, et al. **Allergy** 1996 Nov;51(11):811–8

Prevalence of lysozyme sensitization in an egg–allergic population. Frémont S, et al. **Allergy** 1997 Feb;52(2):224–8

Prevalence of sensitization to food allergens in adult Swedes. Björnsson E, et al. **Ann Allergy Asthma Immunol** 1996 Oct; 77(4):327–32

Peanut allergy. Study's results were predictable [letter; comment] Clifford R. **BMJ** 1996 Dec 7;313(7070):1478. Comment on: BMJ 1996 Aug 31;313(7056):518–21.

Allergy to peanut, nuts, and sesame seed in Australian children [letter; comment] Sporik R, et al. **BMJ** 1996 Dec 7;313(7070):1477–8. Comment on: BMJ 1996 Apr

27;312(7038):1050–1. Comment on: BMJ 1996 Apr 27;312(7038):1074–8.
Serous otitis media and food allergy. Bellanti JA, et al. **Monogr Allergy** 1996;32:188–94
Food allergy: problems, fiction and hard facts. de Weck AL. **Monogr Allergy** 1996;32:1–8 (22 ref.)
Adverse reactions to foods: epidemiology and risk factors. Høst A. **Pediatr Allergy Immunol** 1995;6 Suppl 8:20–8 (61 ref.)
Epidemiology of food allergy. Sampson HA. **Pediatr Allergy Immunol** 1996;7(9 Suppl):42–50 (76 ref.)
Self-reported food intolerance in chronic inflammatory bowel disease. Ballegaard M, et al. **Scand J Gastroenterol** 1997 Jun;32(6):569–71

ETIOLOGY

Sensitization to Anisakis simplex: an unusual presentation. Estrada Rodríguez JL, et al. **Allergol Immunopathol (Madr)** 1997 Mar–Apr;25(2):95–7
Oral allergy syndrome from pork. Asero R, et al. **Allergy** 1997 Jun;52(6):684–6
Exercise-induced egg anaphylaxis. Asero R, et al. **Allergy** 1997 Jun;52(6):687–9
Prevalence of adverse reactions to food in patients with gastrointestinal disease. Bischoff SC, et al. **Allergy** 1996 Nov;51(11):811–8
"Latex-fruit syndrome": frequency of cross-reacting IgE antibodies. Brehler R, et al. **Allergy** 1997 Apr;52(4):404–10
Birch pollinosis and atopy caused by apple, peach, and hazelnut; comparison of three extraction procedures with two apple strains. de Groot H, et al. **Allergy** 1996 Oct; 51(10):712–8
Anisakis simplex, a relevant etiologic factor in acute urticaria. Del Pozo MD, et al. **Allergy** 1997 May;52(5):576–9
Anaphylactic reaction caused by cherry ingestion. Escribano MM, et al. **Allergy** 1996 Oct;51(10):756–7
Food allergy to pumpkinseed—characterization of allergens. Fritsch R, et al. **Allergy** 1997 Mar;52(3):335–7
IgE-mediated hypersensitivity to custard-apple. Gonzalo MA, et al. **Allergy** 1997 May;52(5):597
Snail ingestion and asthma. Grembiale RD, et al. **Allergy** 1996 May;51(5):361
Occupational asthma to lobster and shrimp. Lemière C, et al. **Allergy** 1996 Apr;51(4):272–3
Oral allergy syndrome (OAS) in pollinosis patients after eating pistachio nuts: two cases with two different patterns of onset. Liccardi G, et al. **Allergy** 1996 Dec;51(12):919–22
Allergenicity of alpha-caseins from cow, sheep, and goat. Spuergin P, et al. **Allergy** 1997 Mar;52(3):293–8
Banana allergy in infants. Tokuyama K, et al. **Allergy** 1997 Mar;52(3):350–1
Review on buckwheat allergy. Wieslander G. **Allergy** 1996 Oct;51(10):661–5 (25 ref.)
Oral allergy syndrome to a jackfruit (Artocarpus integrifolia). Wüthrich B, et al. **Allergy** 1997 Apr;52(4):428–31
Anaphylaxis to saffron. Wüthrich B, et al. **Allergy** 1997 Apr; 52(4):476–7
Oral allergy syndrome to apple after a lover's kiss. Wüthrich B. **Allergy** 1997 Feb;52(2):235–6
Allergic reactions following skin contact with fish. Domínguez C, et al. **Allergy Asthma Proc** 1996 Mar–Apr; 17(2):83–7
Anaphylaxis induced by lentils. Kalogeromitros D, et al. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):480–2
Systemic allergic reaction following ingestion of undeclared peanut flour in a peanut-sensitive woman. McKenna C, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):234–6
Allergic reactions to anisakis simplex parasitizing seafood. Moreno-Ancillo A, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):246–50
Allergy to fenugreek (Trigonella foenum graecum). Patil SP, et al. **Ann Allergy Asthma Immunol** 1997 Mar;78(3):297–300
Allergic reactions to oral, surgical and topical bovine collagen. Anaphylactic risk for surgeons. Mullins RJ, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):257–60
Randomised, double blind, crossover challenge study of allergenicity of peanut oils in subjects allergic to peanuts. Hourihane JO, et al. **BMJ** 1997 Apr 12;314(7087):1084–8
Inhalative occupational and ingestive immediate-type allergy caused by chicory (Cichorium intybus). Cadot P, et al. **Clin Exp Allergy** 1996 Aug;26(8):940–4
Codfish allergy in adults. Specific tests for IgE and histamine release vs double-blind, placebo-controlled challenges. Hansen TK, et al. **Clin Exp Allergy** 1996 Nov; 26(11):1276–85
Sensitivity reaction to parenteral vitamin B12: recurrence of symptoms after Marmite ingestion [letter] Denis R, et al. **Clin Lab Haematol** 1996 Jun;18(2):129–31 (11 ref.)
Contact urticaria from Loligo japonica. Valsecchi R, et al. **Contact Dermatitis** 1996 Dec;35(6):367–8
Characterization of Ara h 1 by two-dimensional electrophoresis immunoblot and recombinant techniques: new digestion experiments with peanuts imitating the gastrointestinal tract. Becker WM. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):118–21
Recombinant proteins in newly developed foods: identification of allergenic activity. Lehrer SB, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):122–4
Xenobiotics and food allergy: in vivo and in vitro studies in patients with apple allergy. Vieluf D, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):352–4
Allergy syndrome after ingestion of salami [letter] Armentia A, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):142–3
Cumin anaphylaxis: a case report. Boxer M, et al. **J Allergy Clin Immunol** 1997 May;99(5):722–3
Food allergy to Belgian endive (chicory). Helbling A, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):854–6
Anaphylaxis to ackee fruit. Lebo DB, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):997–8
Surimi: something fishy. Musmand JJ, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):697–9
The monosodium glutamate symptom complex: assessment in a double-blind, placebo-controlled, randomized study. Yang WH, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):757–62
Fixed food eruption. Kelso JM. **J Am Acad Dermatol** 1996 Oct;35(4):638–9
Wheat starch intolerance in patients with celiac disease. Chartrand LJ, et al. **J Am Diet Assoc** 1997 Jun;97(6):612–8
IgE binding proteins in honey: discussion on their origin. de la Torre F, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):83–9
Anisakis simplex induces not only anisakiasis: report on 28 cases of allergy caused by this nematode. Fernández de Corres L, et al. **J Investig Allergol Clin Immunol** 1996 Sep–Oct;6(5):315–9
Peanut allergy: recent advances and unresolved issues. Hourihane JO. **J R Soc Med** 1997;90 Suppl 30:40–4 (33 ref.)
Allergies to wheat, yeast and royal jelly: a connection between ingestion and inhalation? Baldo BA. **Monogr Allergy** 1996;32:84–91 (12 ref.)
Transfer of symptomatic peanut allergy to the recipient of a combined liver-and-kidney transplant. Legendre C, et al. **N Engl J Med** 1997 Sep 18;337(12):822–4
Food challenge procedures in research and in clinical practice. Bahna SL. **Pediatr Allergy Immunol** 1995;6 Suppl 8:49–53 (30 ref.)
Application of an electrophoretic methodology for the identification of low molecular weight proteins in foods. Dean TP, et al. **Pediatr Allergy Immunol** 1996 Nov; 7(4):171–5
Classification of adverse reactions to food. Guarnaccia S, et al. **Pediatr Allergy Immunol** 1995;6 Suppl 8:13–19 (58 ref.)
Soy allergy and DSCG in atopic eczema: "much ado about nothing"? Ventura A, et al. **Pediatr Med Chir** 1996 May–Jun;18(3):283–8
Environmental and constitutional conditions and food hypersensitivity in children. Roslan K, et al. **Rocz Akad Med Bialymst** 1995;40(3):448–51
Allergic factors as the probable causes of erythrocyturia in children. Uścinowicz M, et al. **Rocz Akad Med Bialymst** 1995;40(3):561–7
The spectrum of allergy to South African bony fish (Teleosti). Evaluation by double-blind, placebo-controlled challenge. Zinn C, et al. **S Afr Med J** 1997 Feb;87(2):146–52
[Clinico-immunological study of 16 cases of benzoate intolerance in children] Pétrus M, et al. **Allerg Immunol (Paris)** 1997 Feb;29(2):36–8 (Eng. Abstr.) **(Fre)**
[Brief update on bisulfite allergy] Sonneville A. **Allerg Immunol (Paris)** 1996 Sep;28(7):246–7 (Eng. Abstr.) **(Fre)**
[Pseudo-allergies are due to histamine intolerance] Götz M. **Wien Med Wochenschr** 1996;146(15):426–30 (27 ref.) (Eng. Abstr.) **(Ger)**
[Atopic dermatitis and food allergy in infancy and childhood] Stögmann W, et al. **Wien Med Wochenschr** 1996; 146(15):411–4 (22 ref.) (Eng. Abstr.) **(Ger)**
[A case of food-dependent exercise-induced anaphylaxis induced by shrimp] Tokunaga H, et al. **Arerugi** 1995 Nov; 44(11):1297–304 (Eng. Abstr.) **(Jpn)**
[Case of food-dependent exercise-induced anaphylaxis caused by wheat] Murakami R, et al. **Nippon Naika Gakkai Zasshi** 1997 Jan 10;86(1):138–9 **(Jpn)**
[Pseudoallergic reactions. Intolerance to natural and synthetic food constituents masquerading as food allergy] Kurek M. **Pediatr Pol** 1996 Sep;71(9):743–52 (37 ref.) (Eng. Abstr.) **(Pol)**
[Fatal and severe food hypersensitivity. Peanut and soya underestimated allergens] Foucard T, et al. **Lakartidningen** 1997 Jul 23;94(30–31):2635–8 (Eng. Abstr.) **(Swe)**

GENETICS

Does gluten sensitivity always imply celiac disease? [letter; comment] Bai JC, et al. **Gastroenterology** 1997 Feb; 112(2):671–2. Comment on: Gastroenterology 1996 Aug;111(2):318–24.

IMMUNOLOGY

Immune response to food antigens: kinetics of food-specific antibodies in the normal population. Ahmed T, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):322–8
A case retaining contact urticaria against egg white after gaining tolerance to ingestion. Yamada K, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):69–73
Interactions between dietary proteins and the human system: implications for oral tolerance and food-related diseases. Barbeau WE. **Adv Exp Med Biol** 1997;415:183–93 (47 ref.)
Human T cell clones and cell lines specific to ovomucoid recognize different domains and consistently express IL-5. Eigenmann PA, et al. **Adv Exp Med Biol** 1996;409:217
IgE and monoclonal antibody reactivities to the major shrimp allergen Pen a 1 (tropomyosin) and vertebrate tropomyosins. Reese G, et al. **Adv Exp Med Biol** 1996; 409:225–30
Peanut hypersensitivity. IgE binding characteristics of a recombinant Ara h I protein. Stanley JS, et al. **Adv Exp Med Biol** 1996;409:213–6 (13 ref.)
Relevance of pollen-specific IgE levels to the development of Apiaceae hypersensitivity in patients with birch pollen allergy. Asero R. **Allergy** 1997 May;52(5):560–4
Allergy to foods in patients monosensitized to Artemisia pollen. Garcia Ortiz JC, et al. **Allergy** 1996 Dec; 51(12):927–31
Hypersensitivity to pollen of Olea europaea in Israel. Geller-Bernstein C, et al. **Allergy** 1996 May;51(5):356–9
Oral allergy syndrome (OAS) in pollinosis patients after eating pistachio nuts: two cases with two different patterns of onset. Liccardi G, et al. **Allergy** 1996 Dec;51(12):919–22
Periodate treatment of Anisakis simplex allergens. Moneo I, et al. **Allergy** 1997 May;52(5):565–9
Cross-reactivity between IgE-binding proteins from Anisakis, German cockroach, and chironomids. Pascual CY, et al. **Allergy** 1997 May;52(5):514–20
Peculiarities of egg allergy in children with bird protein sensitization. Bausela BA, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):213–6
Prevalence of sensitization to food allergens in adult Swedes. Björnsson E, et al. **Ann Allergy Asthma Immunol** 1996 Oct; 77(4):327–32
Development of IgG1 and IgG4 antibodies against beta-lactoglobulin and ovalbumin in healthy and atopic children. Duchén K, et al. **Ann Allergy Asthma Immunol** 1997 Apr;78(4):363–8
Bean bag allergy revisited: a case of allergy to inhaled soybean dust. Falleroni AE, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):298–302
Codfish allergy in adults: IgE cross-reactivity among fish species. Hansen TK, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):187–94
The role of circulating food antigen-specific lymphocytes in food allergic children with atopic dermatitis. Reekers R, et al. **Br J Dermatol** 1996 Dec;135(6):935–41
Adverse reactions to food constituents: allergy, intolerance, and autoimmunity. Kitts D, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):241–54 (112 ref.)
Determination of the food specific IgE antibodies: comparison of MAST-CLA and CAP systems. Tang RB, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Mar; 57(3):219–23
IgE cross-reactivity between birch pollen, mugwort pollen and celery is due to at least three distinct cross-reacting allergens: immunoblot investigation of the birch-mugwort-celery syndrome. Bauer L, et al. **Clin Exp Allergy** 1996 Oct;26(10):1161–70
Latex allergy can induce clinical reactions to specific foods. Beezhold DH, et al. **Clin Exp Allergy** 1996 Apr; 26(4):416–22
Inhalant allergy to fresh asparagus [published erratum appears in Clin Exp Allergy 1996 Jun;26(6):733–4] Eng PA, et al. **Clin Exp Allergy** 1996 Mar;26(3):330–4
Allergy to pistachio: crossreactivity between pistachio nut and other Anacardiaceae. Fernández C, et al. **Clin Exp Allergy** 1995 Dec;25(12):1254–9
Specific T cell lines for ovalbumin, ovomucoid, lysozyme and two OA synthetic epitopes, generated from egg allergic patients' PBMC. Holen E, et al. **Clin Exp Allergy** 1996 Sep;26(9):1080–8
Allergenic foods. Hefle SL, et al. **Crit Rev Food Sci Nutr** 1996;36 Suppl:S69–89 (264 ref.)
Why are some proteins allergenic? Implications for biotechnology. Lehrer SB, et al. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):553–64 (66 ref.)
Circulating antibodies to common food antigens in Japanese children with IDDM. Ahmed T, et al. **Diabetes Care** 1997 Jan;20(1):74–6
Putting up a different front for food hypersensitivity [editorial; comment] Mayer L. **Gastroenterology** 1997 Sep; 113(3):1034–6. Comment on: Gastroenterology 1997 Sep;113(3):856–64.
Allergic sensitization to native and heated celery root in pollen-sensitive patients investigated by skin test and IgE binding. Jankiewicz A, et al. **Int Arch Allergy Immunol** 1996 Nov;111(3):268–78
Cross-reacting allergens in tree pollen and pollen-related food allergy: implications for diagnosis of specific IgE. Scheiner O, et al. **Int Arch Allergy Immunol** 1997 May–Jul; 113(1–3):105–8
Combinations of IgE values and lymphocyte proliferative responses for consideration of the clinical course of infantile hen's-egg-sensitive atopic dermatitis. Shinoda S, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):163–8
Identification of unique peanut and soy allergens in sera adsorbed with cross-reacting antibodies. Eigenmann PA, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):969–78
Identification of a 60 kd cross-reactive allergen in pollen and plant-derived food. Heiss S, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):938–47
Food allergy to Belgian endive (chicory). Helbling A, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):854–6
Wheat alpha-amylase inhibitor: a second route of allergic

sensitization. James JM, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):239–44

Is immigration a prognostic factor for oral allergy syndrome in patients with birch pollen hypersensitivity? [letter; comment] Kalyoncu AF. **J Allergy Clin Immunol** 1996 Dec; 98(6 Pt 1):1135. Comment on: J Allergy Clin Immunol 1996 Feb;97(2):611–6.

Oral allergy syndrome after ingestion of salami in a subject with monosensitization to mite allergens. Liccardi G, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):850–2

Identification of the first major allergen of a squid (Todarodes pacificus). Miyazawa H, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):948–53

Ubiquitous structures responsible for IgE cross-reactivity between tomato fruit and grass pollen allergens. Petersen A, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):805–15

Food allergy to gelatin in children with systemic immediate-type reactions, including anaphylaxis, to vaccines. Sakaguchi M, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1058–61

Allergenic activity of heated and ovomucoid-depleted egg white. Urisu A, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):171–6

Poor biologic activity of cross-reactive IgE directed to carbohydrate determinants of glycoproteins. van der Veen MJ, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):327–34

IgE and mast cell response on intestinal allergen exposure: a murine model to study the onset of food allergy. van Halteren AG, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):94–9

Clinical reactivity to beef in children allergic to cow's milk. Werfel SJ, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):293–300

Critical evaluation of food and mite allergy in the management of atopic dermatitis. Hanifin JM. **J Dermatol** 1997 Aug;24(8):495–503 (46 ref.)

Evaluation of the efficacy of oral cromolyn sodium or an oligoantigenic diet in children with atopic dermatitis: a multicenter study of 1085 patients. Businco L, et al. **J Investig Allergol Clin Immunol** 1996 Mar–Apr;6(2):103–9

IgE binding proteins in honey: discussion on their origin. de la Torre F, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):83–9

Skin manifestations and immunological parameters in childhood food allergy. Oehling A, et al. **J Investig Allergol Clin Immunol** 1997 May–Jun;7(3):155–9

Intestinal involvement in atopic disease. Isolauri E. **J R Soc Med** 1997;90 Suppl 30:15–20 (50 ref.)

Diabetes and cows' milk [letter; comment] Akerblom HK. **Lancet** 1996 Dec 14;348(9042):1656–7. Comment on: Lancet 1996 May 25;347(9013):1464–5. Comment on: Lancet 1996 Oct 5;348(9032):905–6.

Allergenicity of foods derived from transgenic plants. Astwood JD, et al. **Monogr Allergy** 1996;32:105–20

Immunological interaction between the mother and her infant in relation to the development of food allergy. Björkstén B. **Monogr Allergy** 1996;32:16–24 (40 ref.)

Food allergy: problems, fiction and hard facts. de Weck AL. **Monogr Allergy** 1996;32:1–8 (22 ref.)

The pork/cat syndrome or crossed reactivity between cat epithelia and pork meat. Drouet M, et al. **Monogr Allergy** 1996;32:164–73

Identification of allergens in apple, pear, celery, carrot and potato: cross-reactivity with pollen allergens. Ebner C, et al. **Monogr Allergy** 1996;32:73–7 (21 ref.)

Coeliac disease: a food allergy? Hed J. **Monogr Allergy** 1996; 32:204–10 (44 ref.)

Chemical composition and structure of food constituents: defining allergenic potential. Miller K, et al. **Monogr Allergy** 1996;32:100–4

Optimization, standardization and control of food allergens. Niemeijer NR, et al. **Monogr Allergy** 1996;32:50–6 (20 ref.)

IgE-binding proteins in fish and fish steam. Pascual CY, et al. **Monogr Allergy** 1996;32:174–80

Diseases of the gastrointestinal tract of children caused by immune reactions to foods. Sampson HA. **Monogr Allergy** 1996;32:36–48 (77 ref.)

Contrast between immunologic and nutritional properties of food proteins [editorial] Ferguson A. **Nutrition** 1996 Nov–Dec;12(11–12):817–8 (7 ref.)

In vitro testing for immunoglobulin E-mediated food allergies. Corey JP, et al. **Otolaryngol Head Neck Surg** 1996 Oct;115(4):312–8

Characterization of ovomucoid-specific T-cell lines and clones from egg-allergic subjects. Eigenmann PA, et al. **Pediatr Allergy Immunol** 1996 Feb;7(1):12–21

IgE and IgG antibodies in children with food allergy. Hofman T. **Rocz Akad Med Bialymst** 1995;40(3):468–73

Carcionoembryonic antigen and immunoglobulin IgE in coeliac disease, food allergy and dudenal ulcer disease in children. Romańczuk W, et al. **Rocz Akad Med Bialymst** 1995;40(3):655–61

Measles immunization in children with a history of egg allergy. Baxter DN. **Vaccine** 1996 Feb;14(2):131–4

IgE binding to a new cross-reactive structure: a 35 kDa protein in birch pollen, exotic fruit and other plant foods. Wellhausen A, et al. **Z Ernahrungswiss** 1996 Dec; 35(4):348–55

[Food allergens] Bonneau JC. **Allerg Immunol (Paris)** 1997 May;29(5):137–8, 141–3 (17 ref.) (Eng. Abstr.) **(Fre)**

[Allergy to cow's milk] Fourrier E. **Allerg Immunol (Paris)** 1997 Apr;29(4):108–10 (Eng. Abstr.) **(Fre)**

[Allergy associated with pepper and latex: new cross reaction?] Maillard H, et al. **Allerg Immunol (Paris)** 1995 Oct;27(8):292–4 (Eng. Abstr.) **(Fre)**

[Bioclinical interest in the assay of leukotrienes in four cases of sensitization to trophallergens] Sainte-Laudy J, et al. **Allerg Immunol (Paris)** 1997 Jun;29(6):152, 155–6, 159 (Eng. Abstr.) **(Fre)**

[Important cross-reactive allergens] Helbling A. **Schweiz Med Wochenschr** 1997 Mar 8;127(10):382–9 (56 ref.) (Eng. Abstr.) **(Ger)**

[Does mucosal immune reaction to nutritional antigens play a role in certain neurologic diseases? Studies exemplified by gluten hypersensitivity] Stüber E, et al. **Z Gastroenterol** 1996 Oct;34(10):717–8 **(Ger)**

[Food allergy in patients with chronic urticaria] Husz S, et al. **Orv Hetil** 1996 Apr 7;137(14):739–41 (Eng. Abstr.) **(Hun)**

[Analysis of immune responses in buckwheat allergy] Takahashi Y. **Arerugi** 1996 Dec;45(12):1244–55 (Eng. Abstr.) **(Jpn)**

[Specific IgE against inhaled allergens in dystreptic children with food allergy] Bujniewicz E, et al. **Pol Merkuriusz Lek** 1996 Jul;1(1):28–9 (Eng. Abstr.) **(Pol)**

METABOLISM

Interleukin-4 and interferon-gamma production by peripheral blood mononuclear cells from food-allergic patients. André F, et al. **Allergy** 1996 May;51(5):350–5

Cytokine production in children outgrowing hen egg allergy. Noma T, et al. **Clin Exp Allergy** 1996 Nov;26(11):1298–307

Increase in degranulation of mucosal mast cells in rats sensitized with milk whey protein hydrolysates compared with native proteins. Ju HR, et al. **Food Chem Toxicol** 1997 Jul;35(7):663–8

PATHOLOGY

Survey of gastrointestinal reactions to foods in adults in relation to atopy, presence of mucus in the stool», swelling of joints and arthralgia in patients with gastrointestinal reactions to foods. Bengtsson U, et al. **Clin Exp Allergy** 1996 Dec;26(12):1387–94

Gastritis and duodenitis in children with food polyallergy. Czaja-Bulsa G, et al. **Rocz Akad Med Bialymst** 1995; 40(3):520–5

Endoscopic and pathomorphologic findings in the gastrointestinal tract (GI) in patients with food allergy. Grzybowska K, et al. **Rocz Akad Med Bialymst** 1995; 40(3):512–9

Morphological picture of the mucosa of small intestine in children with food allergy. Woś H, et al. **Rocz Akad Med Bialymst** 1995;40(3):526–31

PHYSIOPATHOLOGY

Exercise-induced egg anaphylaxis. Asero R, et al. **Allergy** 1997 Jun;52(6):687–9

Mediation of altered motility in food protein induced intestinal anaphylaxis in Hooded-Lister rat. Scott RB, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):320–30

Clinical characteristics of peanut allergy. Hourihane JO, et al. **Clin Exp Allergy** 1997 Jun;27(6):634–9

Cytokine production in children outgrowing hen egg allergy. Noma T, et al. **Clin Exp Allergy** 1996 Nov;26(11):1298–307

Exercise-induced anaphylaxis related to cuttlefish intake. Caffarelli C, et al. **Eur J Pediatr** 1996 Dec;155(12):1025–6

Reduced pulmonary function in multiple food-induced, exercise-related episodes of anaphylaxis. Caffarelli C, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):762–5

Celiac disease: a food allergy? Contra! Bahna SL. **Monogr Allergy** 1996;32:211–5 (22 ref.)

Immunological interaction between the mother and her infant in relation to the development of food allergy. Björkstén B. **Monogr Allergy** 1996;32:16–24 (40 ref.)

Irritable bowel: a food allergy? Gallo C, et al. **Monogr Allergy** 1996;32:198–203 (18 ref.)

Functional studies of intestinal mast cells in children with food intolerance. Wąsowska-Królikowska K, et al. **Rocz Akad Med Bialymst** 1995;40(3):457–61

Modulation by fish oil diet of eicosanoid-induced anion secretion in the rat distal colon. Hug F, et al. **Z Ernahrungswiss** 1996 Dec;35(4):323–31

[Physiopathology of food allergy] Hassoun S. **Allerg Immunol (Paris)** 1997 Apr;29(4):101–2 (Eng. Abstr.) **(Fre)**

[A correlation between food allergy, the autonomic nervous system and the central nervous system: a study of 8 patients in childhood] De Luca L, et al. **Pediatr Med Chir** 1996 Nov–Dec;18(6):565–71 (18 ref.) (Eng. Abstr.) **(Ita)**

PREVENTION & CONTROL

Exercise-induced anaphylaxis: useful screening of food sensitization. Guinnepain MT, et al. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):491–6

Monoclonal and polyclonal antibodies against casein components of cow milk for evaluation of residual antigenic activity in 'hypoallergenic' infant formulas. Plebani A, et al. **Clin Exp Allergy** 1997 Aug;27(8):949–56

Prevention of food allergy and atopic disease. Zeiger RS. **J R Soc Med** 1997;90 Suppl 30:21–33 (90 ref.)

Optimization, standardization and control of food allergens. Niemeijer NR, et al. **Monogr Allergy** 1996;32:50–6 (20 ref.)

Prophylaxis and treatment of food allergy with disodium cromoglycate. Paganelli R, et al. **Monogr Allergy** 1996; 32:246–52 (19 ref.)

Prevention of allergic disease. Exposure to food allergens and dietetic intervention. Halken S, et al. **Pediatr Allergy Immunol** 1996;7(9 Suppl):102–7 (50 ref.)

Thioredoxin-linked mitigation of allergic responses to wheat. Buchanan BB, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5372–7

[Treatment and prevention of food allergy] Gay G. **Allerg Immunol (Paris)** 1997 Jun;29(6):169–70 (Eng. Abstr.) **(Fre)**

[Atopic manifestations, growth and nutritional data in newborns at high risk for allergy fed serum protein hydrolysate: 2-year follow-up] Laforgia N, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5):477–80 (Eng. Abstr.) **(Ita)**

[Immunologic analysis of milk, hen egg, and soybean proteins in butter and margarine, and clinical assessment for availability of hypoallergenic margarine (HAM)] Yokota S, et al. **Arerugi** 1996 Dec;45(12):1237–43 (Eng. Abstr.) **(Jpn)**

[Report from the educational symposium on prophylaxis of civilization related diseases from food—nutrition—drugs] Duda G. **Rocz Panstw Zakl Hig** 1997;48(1):103–6 **(Pol)**

PSYCHOLOGY

Irritable bowel syndrome and food allergy: an association via anxiety-depression? [letter; comment] Addolorato G, et al. **Gastroenterology** 1996 Sep;111(3):833–4. Comment on: Gastroenterology 1995 Dec;109(6):1736–41. Comment on: Gastroenterology 1995 Dec;109(6):2029–31.

Psychiatric aspects of food-related physical symptoms: a community study. Peveler R, et al. **J Psychosom Res** 1996 Aug;41(2):149–59

THERAPY

Peanut allergy [editorial] Douglas RG, et al. **Med J Aust** 1997 Jan 20;166(2):63–4

Treatment of food allergy with low-dose vaccination. Ansotegui IJ, et al. **Monogr Allergy** 1996;32:241–5 (20 ref.)

Prophylaxis and treatment of food allergy with disodium cromoglycate. Paganelli R, et al. **Monogr Allergy** 1996; 32:246–52 (19 ref.)

Votes in percent in the session on 'controversial aspects in diagnosis and treatment of food allergy and intolerance'. Wüthrich B. **Monogr Allergy** 1996;32:253–4

Adverse reactions to foods: management and prognosis. Kjellman NI. **Pediatr Allergy Immunol** 1995;6 Suppl 8:54–8 (13 ref.)

[Acute or chronic food allergy: adapted therapeutic and diagnostic procedures] Drouet M. **Allerg Immunol (Paris)** 1997 May;29(5):129–30, 133–6 (Eng. Abstr.) **(Fre)**

[Treatment and prevention of food allergy] Gay G. **Allerg Immunol (Paris)** 1997 Jun;29(6):169–70 (Eng. Abstr.) **(Fre)**

VETERINARY

Food hypersensitivity in 20 dogs with skin and gastrointestinal signs. Paterson S. **J Small Anim Pract** 1995 Dec;36(12):529–34

The atopic dog: a model for food allergy. Ermel RW, et al. **Lab Anim Sci** 1997 Feb;47(1):40–9

FOOD, INFANT see **INFANT FOOD**

FOOD INSPECTION

Herbal products in Canada. How safe are they? [see comments] Kozyrskyj A. **Can Fam Physician** 1997 Apr; 43:697–702 (26 ref.). Comment in: Can Fam Physician 1997 Jun;43:1047.

The US Army food safety program. Barrows PL. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2061–3

The role of the food animal veterinarian in the HACCP era [see comments] Buntain B. **J Am Vet Med Assoc** 1997 Feb 15;210(4):492–5. Comment in: J Am Vet Med Assoc 1997 Apr 15;210(8):1099–100.

Effectiveness of microbiologic criteria for the safety of foods of animal origin. Dreesen DW. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2052–4 (3 ref.)

Meats from ratite family receive inspection [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 May 1;210(9):1261

Teaching food safety in the veterinary curriculum. Russell LH. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2050–2

Novel pathogens beat food safety checks [news] [see comments] Butler D. **Nature** 1996 Dec 5;384(6608):397. Comment in: Nature 1997 Jan 30;385(6615):384.

[Hygiene and microbiologic quality of ice creams produced in Cameroon. A public health problem] Wouafo MN, et al. **Bull Soc Pathol Exot** 1996;89(5):358–62 (Eng. Abstr.) **(Fre)**

[The hygienic evaluation of the industrial environment in a dairy plant] Belova LV, et al. **Gig Sanit** 1996 May–Jun; (3):17–20 **(Rus)**

[Monitoring nutrition and the quality of the food products in the social-hygiene monitoring system in the Russian Federation] Beliaev EN. **Vopr Pitan** 1996;(3):3–8 (Eng.

Abstr.) **(Rus)**
[Effectiveness of certification] Gordienko L. **Vopr Pitan** 1996; (4):37–41 **(Rus)**
[The quality of grain is the quality of its products] Mal'tsev V. **Vopr Pitan** 1996;(2):39–41 **(Rus)**
[Microbiological quality of street sold fruits in San José, Costa Rica] Monge R, et al. **Arch Latinoam Nutr** 1995 Jun; 45(2):117–21 (Eng. Abstr.) **(Spa)**
[Does genetically altered food cause allergy and poisoning? High safety requirements could eliminate health hazards] Wilhelmson B. **Lakartidningen** 1997 Feb 19;94(8):612–7 **(Swe)**

INSTRUMENTATION

[Multichannel device for monitoring the quality of food products] Khastsaev BD. **Med Tekh** 1996 Nov–Dec; (6):42–4 **(Rus)**

LEGISLATION & JURISPRUDENCE

Food safety regulation: reforming the Delaney Clause. Merrill RA. **Annu Rev Public Health** 1997;18:313–40 (70 ref.)
Salmon import bans to remain [news] **Aust Vet J** 1997 Feb; 75(2):88
Task force investigates disease [news] Murray G. **Aust Vet J** 1996 Sep;74(3):251
The Canadian Food Inspection Agency [editorial] Hare D. **Can Vet J** 1997 Jun;38(6):329–30 **(Eng, Fre)**

METHODS

Suggestions for the construction, analysis and use of descriptive epidemiological models for the modernization of meat inspection. Berends BR, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):27–36
HACCP system simplified [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):16
Extraction of maleic hydrazide residues from potato crisps and their determination using high-performance liquid chromatography with UV and atmospheric pressure chemical ionisation mass spectrometric detection. Lewis DJ, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):391–6
Monitoring the microbiology of high quality milk by monthly sampling over 2 years. Desmasures N, et al. **J Dairy Res** 1997 May;64(2):271–80
The effect of evisceration on visible contamination and the microbiological profile of fresh broiler chicken carcasses using the Nu-Tech Evisceration System or the conventional Streamlined Inspection System. Russell SM, et al. **Poult Sci** 1997 May;76(5):780–4
Meat safety consequences of implementing visual postmortem meat inspection procedures in Danish slaughter pigs. Mousing J, et al. **Vet Rec** 1997 May 3;140(18):472–7
Establishment of microbiological safety criteria for foods in international trade. International Commission on Microbiological Specifications for Foods. **World Health Stat Q** 1997;50(1–2):119–23 (2 ref.)
Monitoring and assessment of dietary exposure to chemical contaminants. Baht RV, et al. **World Health Stat Q** 1997; 50(1–2):132–49 (82 ref.)
Modernizing food control systems: the experience of Thailand. Pothisiri P. **World Health Stat Q** 1997; 50(1–2):150–4 (6 ref.)

STANDARDS

International meat and poultry HACCP alliance. Cross HR. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2048
An HACCP learning module for graduate veterinarians. Cullor JS. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):2049–50
Are veterinary roles vague in the HACCP era? [letter; comment] Nusbaum SR. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1099–100. Comment on: J Am Vet Med Assoc 1997 Feb 15;210(4):492–5.
Nationwide inspection and disposition uniformity ... FSIS goal [news] Reed CA, et al. **J Am Vet Med Assoc** 1996 Jul 1;209(1):23, 30
FSIS consolidates to improve services [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Apr 1;210(7):880
Meat inspection: an overview of present practices and future trends. Edwards DS, et al. **Vet J** 1997 Sep;154(2):135–47 (78 ref.)
Meat inspector! Whither goest thou? [editorial] Hinton MH, et al. **Vet J** 1997 Sep;154(2):91–2
E coli outbreak prompts tightening of food safety procedures [news] **Vet Rec** 1997 Jan 25;140(4):79–80
Farm assurance schemes [letter] Main D. **Vet Rec** 1996 Nov 30;139(22):551–2
Disposal of rendered specified offal [letter] Taylor KC. **Vet Rec** 1996 Sep 14;139(11):267
Modernizing food control systems: the experience of Thailand. Pothisiri P. **World Health Stat Q** 1997; 50(1–2):150–4 (6 ref.)
[Learning to control the meat] Krol B. **Tijdschr Diergeneeskd** 1996 Oct 15;121(20):586–90 **(Dut)**
[The quality and safety of child nutrition products in Russia: biomedical demands and monitoring results] Beliaev EN, et al. **Vopr Pitan** 1996;(5):8–12 **(Rus)**

FOOD INTAKE see **EATING**

FOOD INTAKE REGULATION see **APPETITE REGULATION**

FOOD INTERACTIONS see **FOOD-DRUG INTERACTIONS**

FOOD, IRRADIATED see **FOOD IRRADIATION**

FOOD IRRADIATION

Identification of irradiated mangoes by means of ESR spectroscopy. Bustos ME, et al. **Appl Radiat Isot** 1996 Nov–Dec;47(11–12):1655–6
Influence of sample treatment on ESR signal of irradiated citrus. de Jesus EF, et al. **Appl Radiat Isot** 1996 Nov–Dec; 47(11–12):1647–53
Current status of the EPR method to detect irradiated food. Desrosiers MF. **Appl Radiat Isot** 1996 Nov–Dec; 47(11–12):1621–8 (80 ref.)
Use of ESR for the detection of irradiated dates (Phoenix dactylifera L.). Ghelawi MA, et al. **Appl Radiat Isot** 1996 Nov–Dec;47(11–12):1641–5
Effect of irradiation dose, storage time and temperature on the ESR signal in irradiated oat, corn and wheat. Murrieta H, et al. **Appl Radiat Isot** 1996 Nov–Dec;47(11–12):1657–61
Inhibition of microbial growth in chub-packed ground beef by refrigeration (2 degrees C) and medium-dose (2.2 to 2.4 kGy) irradiation. Gamage SD, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):175–82
Control of Yersinia enterocolitica in raw pork and pork products by gamma-irradiation. Kamat AS, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):69–76
The growth of Salmonella typhimurium on irradiated, raw, skinless chicken breast. McKay AL, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):121–9
Why not irradiate? [letter] [see comments] Erbeck DH. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1379. Comment in: J Am Vet Med Assoc 1997 Jan 1;210(1):18.
Potentials of cold pasteurization for the safety of foods of animal origin. Mussman HC. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2057–8
The DNA 'comet assay' as a rapid screening technique to control irradiated food. Cerda H, et al. **Mutat Res** 1997 Apr 29;375(2):167–81
Cyclosporiasis and raspberries [letter] Cockerill FR 3rd. **N Engl J Med** 1997 Oct 16;337(16):1171; discussion 1172
Effect of gamma-irradiation on the natural occurrence of Fusarium mycotoxins in wheat, flour and bread. Aziz NH, et al. **Nahrung** 1997 Feb;41(1):34–7
Technological and chemical characters of bread prepared from irradiated wheat flour. Zaied SE, et al. **Nahrung** 1996 Feb;40(1):28–31
D values of Salmonella enteritidis isolates and quality attributes of shell eggs and liquid whole eggs treated with irradiation. Serrano LE, et al. **Poult Sci** 1997 Jan; 76(1):202–6
Comparison between irradiated and thermally pasteurized liquid egg white on functional, physical, and microbiological properties. Wong YC, et al. **Poult Sci** 1996 Jun;75(6):803–8
Irradiation as a cold pasteurization process of food [published erratum appears in Vet Parasitol 1997 Jul 15;71(1):65] Loaharanu P. **Vet Parasitol** 1996 Aug;64(1–2):71–82 (56 ref.)
Migration of dioctyladipate plasticizer from food-grade PVC film into chicken meat products: effect of gamma-radiation. Goulas AE, et al. **Z Lebensm Unters Forsch** 1996 Mar; 202(3):250–5
[Food irradiation with ionizing radiation; an overview] Nooitgedagt AJ. **Tijdschr Diergeneeskd** 1997 Mar 15; 122(6):158–63 (33 ref.) (Eng. Abstr.) **(Dut)**

ADVERSE EFFECTS

Cyclosporiasis and raspberries [letter] Tritsch GL, et al. **N Engl J Med** 1997 Oct 16;337(16):1171; discussion 1172

ECONOMICS

Economics may be cause for lack of food irradiation [letter; comment] Gonder E. **J Am Vet Med Assoc** 1997 Jan 1; 210(1):18. Comment on: J Am Vet Med Assoc 1996 Oct 15;209(8):1379.
Cyclosporiasis and raspberries [letter] Lavietes MH. **N Engl J Med** 1997 Oct 16;337(16):1171; discussion 1171–2

INSTRUMENTATION

Radiation protection. Protection from potential exposures: application to selected radiation sources. A report of a task group of the International Commission on Radiation Protection. **Ann ICRP** 1997;27(2):1–61

METHODS

The effect of electron beam irradiation, combined with acetic acid, on the survival and recovery of Escherichia coli and Lactobacillus curvatus. Fielding LM, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):259–65

FOOD LABELING

Food shopping and label use behavior among high school-aged adolescents. McCullum C, et al. **Adolescence** 1997 Spring;32(125):181–97
Some Food and Drug Administration perspectives of fat and fatty acids. Scarbrough FE. **Am J Clin Nutr** 1997 May;65(5 Suppl):1578S–1580S (6 ref.)
Do nutrition label readers eat healthier diets? Behavioral correlates of adults' use of food labels. Kreuter MW, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):277–83
Increasing willingness to taste novel foods: effects of nutrition and taste information. McFarlane T, et al. **Appetite** 1997 Jun;28(3):227–38
Influence of relative fat content information on responses to three foods. Westcombe A, et al. **Appetite** 1997 Feb; 28(1):49–62
Food labels, trans fatty acids, and coronary heart disease [editorial; comment] Longnecker MP. **Epidemiology** 1997 Mar;8(2):122–3. Comment on: Epidemiology 1997 Mar;8(2):144–9.
Unlabeled milk from cows treated with biosynthetic growth hormones: a case of regulatory abdication. Epstein SS. **Int J Health Serv** 1996;26(1):173–85 (66 ref.)
Labeling of trans fatty acids [letter; comment] Hegsted DM. **J Am Coll Nutr** 1997 Feb;16(1):98–100. Comment on: J Am Coll Nutr 1996 Aug;15(4):321–2.
Obstacles to nutrition labeling in restaurants. Almanza BA, et al. **J Am Diet Assoc** 1997 Feb;97(2):157–61
Effectiveness of consumer labels for the safety of foods of animal origin. Altekruse SF. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2056
Determination of total, saturated, and monounsaturated fats in foodstuffs by hydrolytic extraction and gas chromatographic quantitation: collaborative study. House SD. **J AOAC Int** 1997 May–Jun;80(3):555–63
Fat content for nutritional labeling by supercritical fluid extraction and an on-line lipase catalyzed reaction. Snyder JM, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):201–7
Biotech food labeling: polite hedging or loggerheads? [news] Fox JL. **Nat Biotechnol** 1997 Apr;15(4):308
Novartis' new labeling policy creates confusion. Hoyle R. **Nat Biotechnol** 1997 May;15(5):395
US attacks EU gene-food labelling move [news] **Nature** 1997 Jun 26;387(6636):833
Europe agrees a compromise on food labels [news] [see comments] Butler D. **Nature** 1996 Dec 12;384(6609):502–3 . Comment in: Nature 1997 Jan 23;385(6614):290.
Scientists' statement regarding data on the sodium-hypertension relationship and sodium health claims on food labeling. **Nutr Rev** 1997 May;55(5):172–5 (13 ref.)
[Comprehension of food label claims by university undergraduate students] Grenier K, et al. **Can J Public Health** 1996 Sep–Oct;87(5):351–3 (Eng. Abstr.) **(Fre)**
[Effectiveness of certification] Gordienko L. **Vopr Pitan** 1996; (4):37–41 **(Rus)**

LEGISLATION & JURISPRUDENCE

What place for alcoholic beverage container labels? A view from the United States [editorial] Mosher JF. **Addiction** 1997 Jul;92(7):789–92
Functional foods. Farr DR. **Cancer Lett** 1997 Mar 19; 114(1–2):59–63
Legislative and legal restrictions on labeling information regarding the use of recombinant bovine somatotropin. Centner TJ, et al. **J Dairy Sci** 1997 Jan;80(1):215–9
Infant feeding and the law. Sobti JC, et al. **J Indian Med Assoc** 1996 Mar;94(3):108–10
Regulatory climate for therapeutic nutritional claims regarding cachexia. McCamish MA, et al. **Nutrition** 1996 Jan;12(1 Suppl):S63–5 (20 ref.)

STANDARDS

Trans fatty acid content should be included on food labels [editorial; comment] [see comments] Sampugna J, et al. **J Am Coll Nutr** 1996 Aug;15(4):321–2. Comment on: J Am Coll Nutr 1996 Aug;15(4):325–39. Comment in: J Am Coll Nutr 1997 Feb;16(1):98–100.
Nutrition labeling to prevent deficiency, promote health, and avert toxicity. King AB. **Nutrition** 1996 May;12(5):382–3
It's a food, it's a drug ... no, it's a medical food. King AB. **Nutrition** 1997 Mar;13(3):247–8

TRENDS

'Healthy' developments in the food industry. Korver O. **Cancer Lett** 1997 Mar 19;114(1–2):19–23 (4 ref.)

FOOD LAWS see **LEGISLATION, FOOD**

FOOD MICROBIOLOGY

Nutrient content and survival of selected pathogenic bacteria in kenkey used as a weaning food in Ghana. Annan-Prah A, et al. **Acta Trop** 1997 Apr 30;65(1):33–42
Thermal processing of foods, a retrospective, Part I: Uncertainties in thermal processing and statistical analysis. Ramesh MN, et al. **Adv Appl Microbiol** 1997;44:287–314 (90 ref.)
Occurrence of Fusarium and fumonisins on food grains and in foods. Bullerman LB. **Adv Exp Med Biol** 1996;392:27–38 (31 ref.)
Hunting of peridomestic rodents and consumption of their meat as possible risk factors for rodent-to-human transmission of Lassa virus in the Republic of Guinea. Ter Meulen J, et al. **Am J Trop Med Hyg** 1996 Dec;55(6):661–6

FOOD MICROBIOLOGY

Emerging issues in microbiological food safety. Meng J, et al. **Annu Rev Nutr** 1997;17:255–75 (92 ref.)

Acceleration of cheese ripening. Fox PF, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):271–97 (187 ref.)

Biopreservation by lactic acid bacteria. Stiles ME. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):331–45 (132 ref.)

Barriers to application of genetically modified lactic acid bacteria. Verrips CT, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):299–316 (44 ref.)

Leavening ability and freeze tolerance of yeasts isolated from traditional corn and rye bread doughs. Almeida MJ, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4401–4

Use of rRNA gene restriction patterns to evaluate lactic acid bacterium contamination of vacuum-packaged sliced cooked whole-meat product in a meat processing plant. Björkroth KJ, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):448–53

Typing Listeria monocytogenes isolates from fish products and human listeriosis cases. Boerlin P, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1338–43

Vibrio mimicus diarrhea following ingestion of raw turtle eggs. Campos E, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1141–4

Application and evaluation of the phage resistance- and bacteriocin-encoding plasmid pMRC01 for the improvement of dairy starter cultures. Coakley M, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1434–40

Recovery of a strain of Clostridium botulinum producing both neurotoxin A and neurotoxin B from canned macrobiotic food. Franciosa G, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1148–50

On-farm monitoring of mouse-invasive Salmonella enterica serovar enteritidis and a model for its association with the production of contaminated eggs. Guard-Petter J, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1588–93

Identification and quantification of Bifidobacterium species isolated from food with genus-specific 16S rRNA-targeted probes by colony hybridization and PCR. Kaufmann P, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1268–73

Food-grade cloning and expression system for Lactococcus lactis. Platteeuw C, et al. **Appl Environ Microbiol** 1996 Mar; 62(3):1008–13

In vitro assay of Staphylococcus aureus enterotoxin A activity in food. Rasooly L, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2361–5

Maltodextrin stimulates growth of Bacillus cereus and synthesis of diarrheal enterotoxin in infant milk formulae. Rowan NJ, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):1182–4

Effects of pH on distribution of Listeria ribotypes in corn, hay, and grass silage. Ryser ET, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3695–7

Epidemiological typing of Bacillus spp. isolated from food. Schraft H, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4229–32

Applying tests for specific yolk antibodies to predict contamination by Salmonella enteritidis in eggs from experimentally infected laying hens. Gast RK, et al. **Avian Dis** 1997 Jan-Mar;41(1):195–202

Spread of an enteric 'marker' organism during evisceration of New York dressed poultry in a simulated kitchen environment. Mead GC, et al. **Br Poult Sci** 1997 May; 38(2):195–8

Summary of the National Consensus Conference on Foodborne, Waterborne and Enteric Disease Surveillance. **Can Commun Dis Rep** 1996 Jun 1;22(11):81–4 (0 ref.) **(Eng, Fre)**

Mycotoxins in fungal contaminated samples of animal feed from western Canada, 1982–1994. Abramson D, et al. **Can J Vet Res** 1997 Jan;61(1):49–52

Concurrent outbreaks of Salmonella Typhimurium in South Australia. Andrews R, et al. **Commun Dis Intell** 1997 Mar 6;21(5):61–2

A prolonged outbreak of Campylobacter infection at a training facility. Kirk M, et al. **Commun Dis Intell** 1997 Mar 6;21(5):57–61

Outbreak of small round structured virus gastroenteritis arose after kitchen assistant vomited. Patterson W, et al. **Commun Dis Rep CDR Rev** 1997 Jun 27;7(7):R101–3

Salmonella in retail poultry in Northern Ireland. Wilson IG, et al. **Commun Dis Rep CDR Rev** 1996 Mar 29;6(4):R64–6

Escherichia coli O157 outbreak in Lincolnshire. **Commun Dis Rep CDR Wkly** 1997 Mar 21;7(12):101

Isolation of Yersinia enterocolitica from foods. de Boer E. **Contrib Microbiol Immunol** 1995;13:71–3

Fate of Yersinia enterocolitica in commercial acidified/emulsified foods. Erickson JP. **Contrib Microbiol Immunol** 1995;13:86–8

Human carriage of Yersinia species and incidence in foods. Greenwood MH. **Contrib Microbiol Immunol** 1995;13:74–6

Detection of pathogenic Yersinia enterocolitica in food, water, and feces by nested polymerase chain reactions and immunomagnetic separation. Kapperud G, et al. **Contrib Microbiol Immunol** 1995;13:130–3

Alkaline-fermented foods: a review with emphasis on pidan fermentation. Wang J, et al. **Crit Rev Microbiol** 1996; 22(2):101–38 (81 ref.)

Food microbiology. Hindman D. **Del Med J** 1997 Mar; 69(3):155

Electronic communication facilitates investigation of a highly dispersed foodborne outbreak: Salmonella on the superhighway. Mahon BE, et al. **Emerg Infect Dis** 1995 Jul-Sep;1(3):94–5

The effect of ice-cream-scoop water on the hygiene of ice cream. Wilson IG, et al. **Epidemiol Infect** 1997 Aug; 119(1):35–40

Emerging foodborne pathogens: Escherichia coli O157:H7 as a model of entry of a new pathogen into the food supply of the developed world. Armstrong GL, et al. **Epidemiol Rev** 1996;18(1):29–51 (179 ref.)

Cholera: foodborne transmission and its prevention. Estrada-García T, et al. **Eur J Epidemiol** 1996 Oct; 12(5):461–9 (71 ref.)

Interregional foodborne salmonellosis outbreak due to powdered infant formula contaminated with lactose-fermenting Salmonella virchow. Usera MA, et al. **Eur J Epidemiol** 1996 Aug;12(4):377–81

Investigation of animal botulism outbreaks by PCR and standard methods. Fach P, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):279–85

Purification and partial characterization of an antigen specific to Lactobacillus brevis strains with beer spoilage activity. Yasui T, et al. **FEMS Microbiol Lett** 1997 Jun 15; 151(2):169–76

Bacteriocins of Lactobacillus plantarum strains from fermented foods. Olasupo NA. **Folia Microbiol (Praha)** 1996;41(2):130–6 (25 ref.)

Assessment of a bacteriocin-producing Lactobacillus strain in the control of spoilage of a cereal-based African fermented food. Olasupo NA, et al. **Folia Microbiol (Praha)** 1997;42(1):31–4

Rapid identification of Clostridium botulinum and botulinal toxin in food. Rodriguez A, et al. **Folia Microbiol (Praha)** 1997;42(2):149–51

Production of trichothecenes and zearalenone by isolates of Fusarium spp. from Argentinian maize. Molto GA, et al. **Food Addit Contam** 1997 Apr;14(3):263–8

Food-borne and air-borne streptococcal pharyngitis--a clinical comparison. Bar-Dayan Y, et al. **Infection** 1997 Jan-Feb;25(1):12–5

Emergence of nalidixic acid resistant Shigella dysenteriae type 1 in Thailand: an outbreak associated with consumption of a coconut milk dessert. Hoge CW, et al. **Int J Epidemiol** 1995 Dec;24(6):1228–32

Microbiological analysis of 'black pudding', a Trinidadian delicacy and health risk to consumers. Adesiyun AA, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):283–99

Sample preparation and DNA extraction procedures for polymerase chain reaction identification of Listeria monocytogenes in seafoods. Agersborg A, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):275–80

Lactic acid fermentation of cassava dough into agbelima. Amoa-Awua WK, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):87–98

Optimisation of methodology for enumeration of xerophilic yeasts from foods. Andrews S, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):109–16

Differences in pathogenicity for chick embryos and growth kinetics at 37 degrees C between clinical and meat isolates of Listeria monocytogenes previously stored at 4 degrees C. Avery SM, et al. **Int J Food Microbiol** 1997 Mar 3; 34(3):319–27

Multiplex PCR assay for the routine detection of Listeria in food. Bansal NS, et al. **Int J Food Microbiol** 1996 Dec; 33(2–3):293–300

The determination of efficacy of antimicrobial rinses on turkey carcasses using response surface designs. Bautista DA, et al. **Int J Food Microbiol** 1997 Mar 3;34(3):279–92

Comparison of chemical treatments to kill Salmonella on alfalfa seeds destined for sprout production. Beuchat LR. **Int J Food Microbiol** 1997 Mar 3;34(3):329–33

rRNA gene restriction patterns as a characterization tool for Lactobacillus sake strains producing ropy slime. Björkroth J, et al. **Int J Food Microbiol** 1996 Jul;30(3):293–302

Characterization of Lactobacillus sake strains associating with production of ropy slime by randomly amplified polymorphic DNA (RAPD) and pulsed-field gel electrophoresis (PFGE) patterns. Björkroth J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):59–68

Assay of Salmonella in enrichment cultures of foods, feeds and environmental samples by the polymyxin-cloth enzyme immunoassay. Blais BW, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):183–8

Bacterial spoilage of meat and cured meat products. Borch E, et al. **Int J Food Microbiol** 1996 Nov;33(1):103–20 (64 ref.)

Insufficient antilisterial capacity of low inoculum Lactobacillus cultures on long-term stored meats at 4 degrees C. Buncic S, et al. **Int J Food Microbiol** 1997 Feb; 34(2):157–70

Listeriolysin O production and pathogenicity of non-growing Listeria monocytogenes stored at refrigeration temperature. Buncic S, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):133–47

Main microbial flora present as natural starters in Cebreiro raw cow's-milk cheese (northwest Spain). Centeno JA, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):307–13

Luminescent Salmonella strains as real time reporters of growth and recovery from sublethal injury in food. Chen J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):27–43

Multilocus enzyme electrophoretic (MEE) analysis of Australian isolates of Salmonella enteritidis. Cox JM, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):273–82

Detection of Salmonella from raw food samples using Dynabeads anti-Salmonella and a conventional reference method. Cudjoe KS, et al. **Int J Food Microbiol** 1997 Jun 17;37(1):55–62

Chemical/biochemical detection of spoilage. Dainty RH. **Int J Food Microbiol** 1996 Nov;33(1):19–33 (63 ref.)

Staphylococcus aureus in dairy products in the Bologna area. De Luca G, et al. **Int J Food Microbiol** 1997 Apr 15; 35(3):267–70

Enterotoxigenic Escherichia coli detected in foods by PCR and an enzyme-linked oligonucleotide probe. Deng MY, et al. **Int J Food Microbiol** 1996 Jul;30(3):217–29

The effect of previous growth conditions on the lag phase time of some foodborne pathogenic micro-organisms. Dufrenne J, et al. **Int J Food Microbiol** 1997 Jan;34(1):89–94

Antibacterial activity of Lactobacillus plantarum UG1 isolated from dry sausage: characterization, production and bactericidal action of plantaricin UG1. Enan G, et al. **Int J Food Microbiol** 1996 Jul;30(3):189–215

Genotypic diversity of Campylobacter lari isolated from mussels and oysters in The Netherlands. Endtz HP, et al. **Int J Food Microbiol** 1997 Jan;34(1):79–88

PCR detection of Listeria monocytogenes in 'gravad' rainbow trout. Ericsson H, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):281–5

Health risk assessment of Listeria monocytogenes in Canada. Farber JM, et al. **Int J Food Microbiol** 1996 Jun; 30(1–2):145–56 (28 ref.)

Detection of aflatoxinogenic fungi in figs by a PCR reaction. Färber P, et al. **Int J Food Microbiol** 1997 May 20; 36(2–3):215–20

Moulds in food spoilage. Filtenborg O, et al. **Int J Food Microbiol** 1996 Nov;33(1):85–102 (108 ref.)

The sub-typing of Listeria monocytogenes isolates from food, environments surrounding food manufacturing sites, and clinical samples in New Zealand using multilocus enzyme electrophoresis. Flint SH, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):349–55

Introduction into Japan of pathogenic Yersinia through imported pork, beef and fowl. Fukushima H, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):205–12

Predictive models of the effect of temperature, pH and acetic and lactic acids on the growth of Listeria monocytogenes. George SM, et al. **Int J Food Microbiol** 1996 Sep; 32(1–2):73–90

Sensitive populations: who is at the greatest risk? Gerba CP, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):113–23 (59 ref.)

The aerobic growth of Aeromonas hydrophila and Listeria monocytogenes in broths and on pork. Gill CO, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):67–74

Predictive model of the effect of temperature, pH and sodium chloride on growth from spores of non-proteolytic Clostridium botulinum. Graham AF, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):69–85

Microbiological spoilage of fish and fish products. Gram L, et al. **Int J Food Microbiol** 1996 Nov;33(1):121–37 (69 ref.)

Effect of water activity, modified atmosphere packaging and storage temperature on spore germination of moulds isolated from prunes. el Halouat A, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):41–8

Influence of modified atmosphere and preservatives on the growth of Zygosaccharomyces rouxii isolated from dried fruits. el Halouat A, et al. **Int J Food Microbiol** 1996 Dec; 33(2–3):219–29

Microflora of Boza, a traditional fermented Turkish beverage. Hancioğlu O, et al. **Int J Food Microbiol** 1997 Apr 15; 35(3):271–4

Aeromonas species in fish, fish-eggs, shrimp and freshwater. Hänninen ML, et al. **Int J Food Microbiol** 1997 Jan; 34(1):17–26

A regulatory perspective on the potential uses of microbial risk assessment in international trade. Hathaway SC, et al. **Int J Food Microbiol** 1997 May 20;36(2–3):127–33

Estimating the incidence of food-borne Salmonella and the effectiveness of alternative control measures using the Delphi method. Henson S. **Int J Food Microbiol** 1997 Apr 15;35(3):195–204 (18 ref.)

In vivo bioluminescence to detect the attachment of L-forms of Listeria monocytogenes to food and clinical contact surfaces. Hibma AM, et al. **Int J Food Microbiol** 1996 Dec; 33(2–3):157–67

Water availability and the survival of Salmonella typhimurium in porous systems. Hills BP, et al. **Int J Food Microbiol** 1997 May 20;36(2–3):187–98

Assessment of alimentary exposure to Listeria monocytogenes. Hitchins AD. **Int J Food Microbiol** 1996 Jun;30(1–2):71–85

Adherence to stainless steel by foodborne microorganisms during growth in model food systems. Hood SK, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):145–53

Microbial and biochemical spoilage of foods: an overview. Huis in 't Veld JH. **Int J Food Microbiol** 1996 Nov; 33(1):1–18 (78 ref.)

Biochemical characteristics of Enterobacter agglomerans and related strains found in buckwheat seeds. Iimura K, et al. **Int J Food Microbiol** 1996 Jul;30(3):243–53

Specific spoilage organisms in breweries and laboratory media for their detection. Jespersen L, et al. **Int J Food Microbiol** 1996 Nov;33(1):139–55 (75 ref.)

Thermal destruction of Escherichia coli O157:H7 in beef and

chicken: determination of D- and z-values. Juneja VK, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):231–7

Isolation and characterization of bacteriocin-producing lactic acid bacteria from ready-to-eat food products. Kelly WJ, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):209–18

Prevalence, detection and control of Cryptosporidium parvum in food. Laberge I, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):1–26 (130 ref.)

The effect of glucose supplementation on the spoilage microflora and chemical composition of minced beef stored aerobically or under a modified atmosphere at 4 degrees C. Lambropoulou KA, et al. **Int J Food Microbiol** 1996 Jul;30(3):281–91

The occurrence of Bacillus cereus in Danish pasteurized milk. Larsen HD, et al. **Int J Food Microbiol** 1997 Feb; 34(2):179–86

Antimicrobial activity of hop extracts against Listeria monocytogenes in media and in food. Larson AE, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):195–207

Preparation of PCR samples from food by a rapid and simple centrifugation technique evaluated by detection of Escherichia coli O157:H7. Lindqvist R. **Int J Food Microbiol** 1997 Jun 17;37(1):73–82

Yersinia spp. and numbers, with particular reference to Y. enterocolitica bio/serotypes, occurring on Irish meat and meat products, and the influence of alkali treatment on their isolation. Logue CM, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):257–74

Mycotoxins in two Spanish cheese varieties. López-Díaz TM, et al. **Int J Food Microbiol** 1996 Jul;30(3):391–5

Characterization of monoclonal antibodies for the rapid detection of foodborne campylobacters. Lu P, et al. **Int J Food Microbiol** 1997 Jun 17;37(1):87–91

Shelf life prediction: status and future possibilities. McMeekin TA, et al. **Int J Food Microbiol** 1996 Nov;33(1):65–83 (47 ref.)

Purification, partial characterisation and mode of action of enterococcin EFS2, an antilisterial bacteriocin produced by a strain of Enterococcus faecalis isolated from a cheese. Maisnier-Patin S, et al. **Int J Food Microbiol** 1996 Jul; 30(3):255–70

Fluorogenic and chromogenic enzyme substrates in culture media and identification tests. Manafi M. **Int J Food Microbiol** 1996 Aug;31(1–3):45–58 (72 ref.)

Assessment of the dose-response relationship of Campylobacter jejuni. Medema GJ, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):101–11

Effect of diluent type on viability of yeasts enumerated from foods or pure culture. Mian MA, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):103–7

Enterobacter sakazakii: a review. Nazarowec-White M, et al. **Int J Food Microbiol** 1997 Feb;34(2):103–13 (40 ref.)

Incorporation of elements of quantitative risk analysis in the HACCP system. Notermans S, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):157–73

Quantitative risk analysis and the production of microbiologically safe food: an introduction. Notermans S, et al. **Int J Food Microbiol** 1996 Jun;30(1–2):3–7

Detection of Penicillium species in complex food samples using the polymerase chain reaction. Pedersen LH, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):169–77

Drug resistance, plasmids, biotypes and susceptibility to bacteriophages of Salmonella isolated from poultry in Canada. Poppe C, et al. **Int J Food Microbiol** 1996 Jul; 30(3):325–44

Enumeration of fungi in barley. Rabie CJ, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):117–27

Minimum growth temperatures of Hafnia alvei and other Enterobacteriaceae isolated from refrigerated meat determined with a temperature gradient incubator. Ridell J, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):287–92

Enterotoxin production by staphylococci isolated from foods in France. Rosec JP, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):213–21

Prevalence of Salmonella in broilers at retail outlets, processing plants and farms in Malaysia. Rusul G, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):183–94

Temperature distribution and prevalence of Listeria spp. in domestic, retail and industrial refrigerators in Greece. Sergelidis D, et al. **Int J Food Microbiol** 1997 Feb; 34(2):171–7

Microbial quality of lamb carcasses during processing and the acridine orange direct count technique (a modified DEFT) for rapid enumeration of total viable counts. Sierra ML, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):61–7

Characterisation of virulence factors of Serratia strains isolated from foods. Singh BR, et al. **Int J Food Microbiol** 1997 Mar 3;34(3):259–66

Randomly amplified polymorphic DNA (RAPD) assay for genomic fingerprinting of Bacillus cereus isolates. Stephan R. **Int J Food Microbiol** 1996 Aug;31(1–3):311–6

Lactic acid bacteria of foods and their current taxonomy. Stiles ME, et al. **Int J Food Microbiol** 1997 Apr 29; 36(1):1–29 (167 ref.)

Application of a rapid automated immunosensor for the detection of Staphylococcus aureus enterotoxin B in cream. Strachan NJ, et al. **Int J Food Microbiol** 1997 Apr 15; 35(3):293–7

Isolation and characterisation of Bacillus cereus from pasteurised milk in household refrigerators in The Netherlands. Te Giffel MC, et al. **Int J Food Microbiol** 1997 Mar 3;34(3):307–18

Reliability and practicability of bacteriological monitoring of beef carcass contamination and their rating within a hygiene quality control programme of abattoirs. Untermann F, et al. **Int J Food Microbiol** 1997 Jan; 34(1):67–77

Identification of yeasts and coryneform bacteria from the surface microflora of brick cheeses. Valdés-Stauber N, et al. **Int J Food Microbiol** 1997 Feb;34(2):115–29

DNA based typing, identification and detection systems for food spoilage microorganisms: development and implementation. van der Vossen JM, et al. **Int J Food Microbiol** 1996 Nov;33(1):35–49 (103 ref.)

Enterotoxin production by coagulase-negative staphylococci isolated from goats' milk and cheese. Vernozy-Rozand C, et al. **Int J Food Microbiol** 1996 Jul;30(3):271–80

Identification of micrococcaceae isolated from goat's milk and cheese in the Poitou-Charentes region. Vernozy Rozand C, et al. **Int J Food Microbiol** 1996 Jul;30(3):373–8

Use of predictive microbiology in microbial food safety risk assessment. Walls I, et al. **Int J Food Microbiol** 1997 May 20;36(2–3):97–102

Isolation of vancomycin resistant Enterococcus faecium from food. Wegener HC, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):57–66

Identification of bifidobacteria from dairy products and evaluation of a microplate hybridization method. Yaeshima T, et al. **Int J Food Microbiol** 1996 Jul;30(3):303–13

Comparison of the hydrophobic grid-membrane filter DNA probe method and the Health Protection Branch standard method for the detection of Listeria monocytogenes in foods. Yan W, et al. **Int J Food Microbiol** 1996 Jul; 30(3):379–84

Growth of Shigella flexneri in foods: comparison of observed and predicted growth kinetics parameters. Zaika LL, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):91–102

Prevalence of thermophilic Campylobacter and Arcobacter butzleri in food of animal origin. Zanetti F, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):315–21

Propionibacterium cyclohexanicum sp. nov., a new acid-tolerant omega-cyclohexyl fatty acid-containing propionibacterium isolated from spoiled orange juice. Kusano K, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):825–31

Tetragenococcus muriaticus sp. nov., a new moderately halophilic lactic acid bacterium isolated from fermented squid liver sauce. Satomi M, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):832–6

Effectiveness of microbiologic criteria for the safety of foods of animal origin. Dreesen DW. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2052–4 (3 ref.)

Prevalence of Salmonella organisms in swine feed. Harris IT, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):382–5

Current trends in human diseases associated with foods of animal origin. Morris JG Jr. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2045–7 (2 ref.)

Potentials of cold pasteurization for the safety of foods of animal origin. Mussman HC. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2057–8

S.O.S. ...——... help prevent E coli O157:H7 ... et al! [news] Reed CA, et al. **J Am Vet Med Assoc** 1996 Oct 1; 209(7):1213

Safe eggs and egg products: a government and consumer responsibility [news] Reed CA, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1829–30

Hepatitis A infrequent food link, but of concern... [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 May 15; 210(10):1398

Pre-harvest food safety as part of a farm-to-table pathogen reduction program to prevent foodborne disease [letter; comment] Tollefson L, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):718–21. Comment on: J Am Vet Med Assoc 1996 Jun 15;208(12):1964–5.

Usefulness of cellulase in recovery of Salmonella spp. from guar gum. Amaguaña RM, et al. **J AOAC Int** 1996 Jul–Aug; 79(4):853–7

Salmonella detection in dried milk products by motility enrichment on modified semisolid Rappaport-Vassiliadis medium: collaborative study. Bolderdijk RF, et al. **J AOAC Int** 1996 Mar–Apr;79(2):441–50

Evaluation of a rapid and automated enzyme-linked fluorescent immunoassay for detecting Escherichia coli serogroup O157 in cheese. Cohen AE, et al. **J AOAC Int** 1996 Jul–Aug;79(4):858–60

VIDAS enzyme-linked fluorescent immunoassay for detection of Salmonella in foods: collaborative study. Curiale MS, et al. **J AOAC Int** 1997 May–Jun;80(3):491–504

Two-day hydrophobic grid membrane filter method for yeast and mold enumeration in foods using YM-11 agar: collaborative study. Entis P. **J AOAC Int** 1996 Sep–Oct; 79(5):1069–82

Assurance Escherichia coli O157:H7: a comparative validation study. Feldsine PT, et al. **J AOAC Int** 1997 Jan–Feb;80(1):37–42

Escherichia coli O157:H7 visual immunoprecipitate assay: a comparative validation study. Feldsine PT, et al. **J AOAC Int** 1997 Jan–Feb;80(1):43–8

Visual immunoprecipitate assay (VIP) for detection of enterohemorrhagic Escherichia coli (EHEC) O157:H7 in selected foods: collaborative study. Feldsine PT, et al. **J AOAC Int** 1997 May–Jun;80(3):517–29

Assurance enzyme immunoassay for detection of enterohemorrhagic Escherichia coli O157:H7 in selected foods: collaborative study. Feldsine PT, et al. **J AOAC Int** 1997 May–Jun;80(3):530–43

Assurance polyclonal enzyme immunoassay for detection of Listeria monocytogenes and related Listeria species in selected foods: collaborative study. Feldsine PT, et al. **J AOAC Int** 1997 Jul–Aug;80(4):775–90

Visual immunoprecipitate assay (VIP) for Listeria monocytogenes and related Listeria species detection in selected foods: collaborative study. Feldsine PT, et al. **J AOAC Int** 1997 Jul–Aug;80(4):791–805

Comparison of sorbitol MacConkey and hemorrhagic coli agars for recovery of Escherichia coli O157:H7 from brie, ice cream, and whole milk. Hammack TS, et al. **J AOAC Int** 1997 Mar–Apr;80(2):335–40

Comparison of modified TECRA visual immunoassay with AOAC method 989.14 and reference culture methods 967.25–967.28 for detection of Salmonella in foods and related samples. Hughes D, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1344–59

Relative effectiveness of selenite cystine broth, tetrathionate broth, and rappaport-vassiliadis medium for recovery of Salmonella spp. from raw flesh, highly contaminated foods, and poultry feed: collaborative study. June GA, et al. **J AOAC Int** 1996 Nov–Dec;79(6):1307–23

Comparison of the Petrifilm dry rehydratable film and conventional culture methods for enumeration of yeasts and molds in foods: collaborative study. Knight MT, et al. **J AOAC Int** 1997 Jul–Aug;80(4):806–23

TECRA Listeria Visual Immunoassay (TLVIA) for detection of Listeria in foods: collaborative study. Knight MT, et al. **J AOAC Int** 1996 Sep–Oct;79(5):1083–94

Physicochemical data for some selected Fusarium toxins. Sydenham EW, et al. **J AOAC Int** 1996 Nov–Dec; 79(6):1365–79

Rapid and alternative screening methods for microbiological analysis. van der Zee H, et al. **J AOAC Int** 1997 Jul–Aug; 80(4):934–40 (27 ref.)

Microbiological contamination of ovine carcasses associated with the presence of wool and faecal material. Biss ME, et al. **J Appl Bacteriol** 1996 Dec;81(6):594–600

A solid phase fluorescent capillary immunoassay for the detection of Escherichia coli O157:H7 in ground beef and apple cider. Czajka J, et al. **J Appl Bacteriol** 1996 Dec; 81(6):601–7

The incidence and level of Listeria monocytogenes contamination of food sources at primary production and initial processing. Fenlon DR, et al. **J Appl Bacteriol** 1996 Dec;81(6):641–50

Bacterial contaminants in liquid packaging boards: assessment of potential for food spoilage. Pirttijärvi TS, et al. **J Appl Bacteriol** 1996 Oct;81(4):445–58

Indices for performance evaluation of predictive models in food microbiology. Ross T. **J Appl Bacteriol** 1996 Nov; 81(5):501–8

Impedance microbiology—a rapid change for microbiologists. Silley P, et al. **J Appl Bacteriol** 1996 Mar; 80(3):233–43 (89 ref.)

The use of selective and differential agars in the isolation of Escherichia coli O157 from dairy herds. Wallace JS, et al. **J Appl Bacteriol** 1996 Dec;81(6):663–8

Effect of high pressure on the reduction of microbial populations in vegetables. Arroyo G, et al. **J Appl Microbiol** 1997 Jun;82(6):735–42

The use of bacteriophage-based systems for the separation and concentration of Salmonella. Bennett AR, et al. **J Appl Microbiol** 1997 Aug;83(2):259–65

Detection of bacteriocins of lactic acid bacteria isolated from foods and comparison with pediocin and nisin. Coventry MJ, et al. **J Appl Microbiol** 1997 Aug;83(2):248–58

Mycobiota in Portuguese 'normal' and 'green' cork throughout the manufacturing process of stoppers. Danesh P, et al. **J Appl Microbiol** 1997 Jun;82(6):689–94

Restriction endonuclease analysis, DNA relatedness and phenotypic characterization of Campylobacter jejuni and Camp. coli isolates involved in food-borne disease. Jiménez A, et al. **J Appl Microbiol** 1997 Jun;82(6):713–21

Factors contributing to the survival of poultry associated Pseudomonas spp. exposed to a quaternary ammonium compound. Langsrud S, et al. **J Appl Microbiol** 1997 Jun; 82(6):705–12

Viability of Cryptosporidium parvum during ensilage of perennial ryegrass. Merry RJ, et al. **J Appl Microbiol** 1997 Jan;82(1):115–20

The use of Bacillus diarrhoeal enterotoxin (BDE) detection using an ELISA technique in the confirmation of the aetiology of Bacillus-mediated diarrhoea. Tan A, et al. **J Appl Microbiol** 1997 Jun;82(6):677–82

Fate of low temperature and acid-adapted Yersinia enterocolitica and Listeria monocytogenes that contaminate lactic acid decontaminated meat during chill storage. van Netten P, et al. **J Appl Microbiol** 1997 Jun; 82(6):769–79

A review of Vibrio vulnificus infections related to eating raw oysters, including three cases in Arkansas residents. **J Ark Med Soc** 1996 Mar;92(10):509–10

Use of ion chromatography for monitoring microbial spoilage in the fruit juice industry. Trifirò A, et al. **J Chromatogr A** 1997 May 16;770(1–2):243–52

Use of aqueous two-phase systems in sample preparation for polymerase chain reaction-based detection of microorganisms. Lantz PG, et al. **J Chromatogr B Biomed Appl** 1996 May 17;680(1–2):165–70

Molecular typing of enterohemorrhagic Escherichia coli

O157:H7 isolates in Japan by using pulsed-field gel electrophoresis. Izumiya H, et al. **J Clin Microbiol** 1997 Jul;35(7):1675–80

Characterization of a neurotoxigenic Clostridium butyricum strain isolated from the food implicated in an outbreak of food-borne type E botulism. Meng X, et al. **J Clin Microbiol** 1997 Aug;35(8):2160–2

Molecular microbiological investigation of an outbreak of hemolytic-uremic syndrome caused by dry fermented sausage contaminated with Shiga-like toxin-producing Escherichia coli. Paton AW, et al. **J Clin Microbiol** 1996 Jul;34(7):1622–7

Temperature characterization of psychrotrophic and mesophilic Bacillus species from milk. García-Armesto MR, et al. **J Dairy Res** 1997 May;64(2):261–70

A prolonged outbreak of Escherichia coli O157:H7 infections caused by commercially distributed raw milk. Keene WE, et al. **J Infect Dis** 1997 Sep;176(3):815–8

An international outbreak of Salmonella infections caused by alfalfa sprouts grown from contaminated seeds. Mahon BE, et al. **J Infect Dis** 1997 Apr;175(4):876–82

Fungal contamination of potential medical interest in Spanish grain stores. Mediavilla Molina A, et al. **J Investig Allergol Clin Immunol** 1996 May-Jun; 6(3):196–201

Food- and milk-borne zoonotic infections. Humphrey TJ. **J Med Microbiol** 1997 Jan;46(1):11–3, 28–33 (228 ref.)

Assessment of microwave sterilization of foods using intrinsic chemical markers. Prakash A, et al. **J Microw Power Electromagn Energy** 1997;32(1):50–7

Emerging food-borne diseases [editorial] Ebrahim GJ. **J Trop Pediatr** 1997 Aug;43(4):190–1

Putting money where the US mouth is: initiative on food safety gets under way [news] Marwick C. **JAMA** 1997 May 7;277(17):1340–2

New approaches for detecting and curtailing foodborne microbial infections [news] Stephenson J. **JAMA** 1997 May 7;277(17):1337, 1339–40

Public health experts take aim at a moving target: foodborne infections [news] [see comments] Stephenson J. **JAMA** 1997 Jan 8;277(2):97–8. Comment in: JAMA 1997 Jun 4;277(21):1679–80.

Betraying the public over nvCJD risk [editorial] **Lancet** 1996 Dec 7;348(9041):1529

Foodborne botulism in Italy [letter] Aureli P, et al. **Lancet** 1996 Dec 7;348(9041):1594

Enterococcus faecium strains with vanA-mediated high-level glycopeptide resistance isolated from animal foodstuffs and fecal samples of humans in the community. Klare I, et al. **Microb Drug Resist** 1995 Fall;1(3):265–72

Enumeration of bacterial and yeast colonists of apple fruits and identification of epiphytic yeasts on pear fruits in the Pacific Northwest United States. Chand-Goyal T, et al. **Microbiol Res** 1996 Dec;151(4):427–32

The Clostridium perfringens enterotoxin gene is on a transposable element in type A human food poisoning strains. Brynestad S, et al. **Microbiology** 1997 Jul;143 (Pt 7):2109–15

Challenging food microbiology from a molecular perspective. Stewart GS. **Microbiology** 1997 Jul;143 (Pt 7):2099–108 (52 ref.)

Impact of molecular biology on the detection of foodborne pathogens. Feng P. **Mol Biotechnol** 1997 Jun;7(3):267–78 (49 ref.)

Detection of foodborne pathogens using DNA probes and a dipstick format. Groody EP. **Mol Biotechnol** 1996 Dec; 6(3):323–7

Occurrence of cyclopiazonic acid in feeds and feedstuffs in Tamil Nadu, India. Balachandran C, et al. **Mycopathologia** 1996;133(3):159–62

Microbiological, nutritional and sensory aspects of stored amaranth biscuits and amaranth crackers. Hozová B, et al. **Nahrung** 1997 Jun;41(3):155–8

Mycotoxins in foods in Africa [editorial] Cardwell K, et al. **Nat Toxins** 1996;4(3):103–7

Comparison of detection methods for trichothecenes produced by Fusarium sporotrichioides on fodder and grains at different air humidities. Nikulin M, et al. **Nat Toxins** 1996;4(3):117–21

Novel pathogens beat food safety checks [news] [see comments] Butler D. **Nature** 1996 Dec 5;384(6608):397. Comment in: Nature 1997 Jan 30;385(6615):384.

Flaccid paralysis caused by botulinum toxin type B after pesto ingestion [letter] Chiorboli E, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):725–6

Relationship between aerobic bacteria, salmonellae and Campylobacter on broiler carcasses. Cason JA, et al. **Poult Sci** 1997 Jul;76(7):1037–41

Pulsed light and pulsed electric field for foods and eggs. Dunn J. **Poult Sci** 1996 Sep;75(9):1133–6 (0 ref.)

Innovative methods of energy transfer. McBee LE. **Poult Sci** 1996 Sep;75(9):1137–40 (24 ref.)

The effect of evisceration on visible contamination and the microbiological profile of fresh broiler chicken carcasses using the Nu-Tech Evisceration System or the conventional Streamlined Inspection System. Russell SM, et al. **Poult Sci** 1997 May;76(5):780–4

Spoilage bacteria of fresh broiler chicken carcasses. Russell SM, et al. **Poult Sci** 1995 Dec;74(12):2041–7

Thermal and biological treatments to control psychrotrophic pathogens. Sheldon BW, et al. **Poult Sci** 1996 Sep; 75(9):1126–32 (45 ref.)

Pasteurization of eggs in the shell. Stadelman WJ, et al. **Poult Sci** 1996 Sep;75(9):1122–5

Introduction to egg pasteurization. Vandepopuliere JM. **Poult Sci** 1996 Sep;75(9):1121

Diacetyl formation by lactic bacteria. Escamilla-Hurtado ML, et al. **Rev Latinoam Microbiol** 1996 Apr-Jun; 38(2):129–37 (48 ref.)

Better red than dead. An inexpensive new test instantly spots harmful E. coli [news] Zorpette G. **Sci Am** 1997 Mar; 276(3):36

Quick-change pathogens gain an evolutionary edge [news; comment] Grady D. **Science** 1996 Nov 15;274(5290):1081 . Comment on: Science 1996 Nov 15;274(5290):1208–11.

Salmonella enteritidis outbreak in Thailand: study by random amplified polymorphic DNA (RAPD) analysis. Kantama L, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar;27(1):119–25

Hemolysins and plasmid profiles of Vibrio parahaemolyticus. Vadivelu J, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):126–31

Animal and human listeriosis: a shared problem? [editorial; comment] McLauchlin J. **Vet J** 1997 Jan;153(1):3–5. Comment on: Vet J 1997 Jan;153(1):9–29.

Lamb products as a potential source of E coli O157 [letter] Chapman PA, et al. **Vet Rec** 1996 Oct 26;139(17):427–8

Establishment of microbiological safety criteria for foods in international trade. International Commission on Microbiological Specifications for Foods. **World Health Stat Q** 1997;50(1–2):119–23 (2 ref.)

The role of food in the epidemiology of cholera. Albert MJ, et al. **World Health Stat Q** 1997;50(1–2):111–8 (59 ref.)

Classification of photobacteria associated with spoilage of fish products by numerical taxonomy and pyrolysis mass spectrometry. Dalgaard P, et al. **Zentralbl Bakteriol** 1997 Jan;285(2):157–68

Campylobacter and Salmonella contaminating fresh chicken meat. Geilhausen B, et al. **Zentralbl Bakteriol** 1996 Jul; 284(2–3):241–5

Plasmid profiling for strain differentiation and characterization of Clostridium perfringens isolates. Eisgruber H, et al. **Zentralbl Veterinarmed [B]** 1996 May; 43(3):137–46

[Testing of culture media for detection of Staphylococcus aureus in bulk milk samples] Benda P, et al. **Vet Med (Praha)** 1997 Jan;42(1):9–17 (Eng. Abstr.) **(Cze)**

[Validation of TKT medium for detection of Streptococcus agalactiae in bulk milk samples] Benda P, et al. **Vet Med (Praha)** 1997 Mar;42(3):71–80 (Eng. Abstr.) **(Cze)**

[Identification of Citrobacter species and their occurrence in raw products and foods] Urbanová E, et al. **Vet Med (Praha)** 1997 Mar;42(3):87–91 (Eng. Abstr.) **(Cze)**

[Incidence of Listeria in food] Lahellec C, et al. **Pathol Biol (Paris)** 1996 Nov;44(9):808–15 (Eng. Abstr.) **(Fre)**

[Prevention of Listeria monocytogenes contamination on dairy farms and in the cheese industry] Stahl V, et al. **Pathol Biol (Paris)** 1996 Nov;44(9):816–24 (Eng. Abstr.) **(Fre)**

[The epidemiology of helicobacteriosis in humans; studies of the survival capacity of the microbe in food] Böhmler G, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct; 103(10):438–43 (Eng. Abstr.) **(Ger)**

[Incidence of enterohemorrhagic E. coli in meat] Junghannss U, et al. **Gesundheitswesen** 1996 Aug-Sep;58(8–9):482–4 (Eng. Abstr.) **(Ger)**

[Health risks due to unpasteurized milk?] Greubel S. **Med Monatsschr Pharm** 1997 Jan;20(1):20–1 **(Ger)**

[Infections caused by enterohemorrhagic Escherichia coli strains] Stock I, et al. **Med Monatsschr Pharm** 1997 Mar; 20(3):58–65 (60 ref.) **(Ger)**

[The detection of toxinogenic Bacillus cereus strains] Seidel KE, et al. **Zentralbl Veterinarmed [B]** 1996 Sep;43(7):421–8 (Eng. Abstr.) **(Ger)**

[Presence of Listeria monocytogenes and Listeria spp. in various kinds of food] Castellucci MC, et al. **Ann Ig** 1996 Nov-Dec;8(6):667–674 **(Ita)**

[Foods responsible for transmission of cholera: factors favoring survival of Vibrio and preventive measures] Croci L, et al. **Ann Ig** 1997 Jan-Feb;9(1):41–8 **(Ita)**

[Salmonellosis caused by unusual vehicles in Molise] Manfredi Selvaggi TM, et al. **Ann Ig** 1996 Sep-Oct; 8(5):523–30 (Eng. Abstr.) **(Ita)**

[Antibacterial actin of vinegar against food-borne pathogenic bacteria including Escherichia coli O157:H7 (Part 1). Examination of bacteriostatic and bactericidal activities] Entani E, et al. **Kansenshogaku Zasshi** 1997 May; 71(5):443–50 (Eng. Abstr.) **(Jpn)**

[Outbreak of food-borne gastroenteritis caused by a Norwalk-like virus. Evaluation of methods for confirmation of the etiology in suspected viral gastroenteritis] Andersen FR, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3325–8 (Eng. Abstr.) **(Nor)**

[Investigation of outbreaks of food-borne diseases] Kapperud G. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3329–34 (16 ref.) (Eng. Abstr.) **(Nor)**

[Evaluation and control of the microbiological quality of hands in foodhandlers] Almeida RC, et al. **Rev Saude Publica** 1995 Aug;29(4):290–4 (Eng. Abstr.) **(Por)**

[The absence of Yersinia enterocolitica in foods and animal reservoirs in areas of the state of Pernambuco, Brazil] Leal TC, et al. **Rev Soc Bras Med Trop** 1997 May-Jun; 30(3):193–6 (Eng. Abstr.) **(Por)**

[Microbiological contamination of fish in the delta of Volga] Lartseva LV, et al. **Gig Sanit** 1997 May-Jun;(3):24–6 (Eng. Abstr.) **(Rus)**

[Principles of monitoring food products by impedance Bactometer] Khastsaev BD. **Med Tekh** 1996 Sep-Oct; (5):41–3 (8 ref.) (Eng. Abstr.) **(Rus)**

[Multichannel device for monitoring the quality of food products] Khastsaev BD. **Med Tekh** 1996 Nov-Dec; (6):42–4 **(Rus)**

[Changes in the microbial picture during the production of poultry salami] Pipová M, et al. **Vet Med (Praha)** 1997 Mar; 42(3):81–5 (Eng. Abstr.) **(Slo)**

[Ecological and food safety considerations about products of vegetable origin] Tapia de Daza MS, et al. **Arch Latinoam Nutr** 1994 Dec;44(4):232–41 (75 ref.) (Eng. Abstr.) **(Spa)**

[Mycotoxin-producing fungi in foods] Fernández Pinto VE, et al. **Rev Argent Microbiol** 1996 Jul-Sep;28(3):147–62 (73 ref.) (Eng. Abstr.) **(Spa)**

STANDARDS

Comparison of commercially available kits with standard methods for detection of Salmonella strains in foods. Hanai K, et al. **Appl Environ Microbiol** 1997 Feb;63(2):775–8

The application of quantitative risk assessment to microbial food safety risks. Jaykus LA. **Crit Rev Microbiol** 1996; 22(4):279–93 (48 ref.)

The evaluation of a fluorogenic polymerase chain reaction assay for the detection of Salmonella species in food commodities. Chen S, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):239–50

Determination of ready-to-eat vegetable salad shelf-life. García-Gimeno RM, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):31–8

Control of Yersinia enterocolitica in raw pork and pork products by gamma-irradiation. Kamat AS, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):69–76

FSIS consolidates to improve services [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Apr 1;210(7):880

Monitoring the microbiology of high quality milk by monthly sampling over 2 years. Desmasures N, et al. **J Dairy Res** 1997 May;64(2):271–80

Microbiological quality of cooked chicken breasts containing commercially available shelf-life extenders. Rozum JJ, et al. **Poult Sci** 1997 Jun;76(6):908–13

Relevance of abattoir hygiene assessment to microbial contamination of British beef carcases. Hudson WR, et al. **Vet Rec** 1996 Dec 14;139(24):587–9

[Quality assurance in food microbiology laboratories] Cwiek-Ludwicka K, et al. **Rocz Panstw Zakl Hig** 1996; 47(4):359–69 (Eng. Abstr.) **(Pol)**

FOOD, ORGANIC see **HEALTH FOOD**

FOOD PACKAGING

The application of a predictive migration model for evaluating the compliance of plastic materials with European food regulations. Baner A, et al. **Food Addit Contam** 1996 Jul;13(5):587–601

Migration studies from paper and board food packaging materials. 1. Compositional analysis. Castle L, et al. **Food Addit Contam** 1997 Jan;14(1):35–44

Migration studies from paper and board food packaging materials. Part 2. Survey for residues of dialkylamino benzophenone UV-cure ink photoinitiators. Castle L, et al. **Food Addit Contam** 1997 Jan;14(1):45–52

Migration from plasticized poly(vinyl chloride) into fatty media: importance of simulant selectivity for the choice of volatile fatty simulants. Hamdani M, et al. **Food Addit Contam** 1996 Aug-Sep;13(6):717–29

Using a simple diffusion model to predict residual monomer migration--considerations and limitations. Lickly TD, et al. **Food Addit Contam** 1997 Jan;14(1):65–74

Determination of UV stabilizers in PET bottles by high performance-size exclusion chromatography. Monteiro M, et al. **Food Addit Contam** 1996 Jul;13(5):575–86

Migration from PVC cling films compared with their field of application. Petersen JH, et al. **Food Addit Contam** 1997 May-Jun;14(4):345–53

Reactions of epoxide monomers in food simulants used to test plastics for migration. Philo MR, et al. **Food Addit Contam** 1997 Jan;14(1):75–82

Food and packaging interactions: tailoring fatty food simulants. Riquet AM, et al. **Food Addit Contam** 1997 Jan; 14(1):53–63

Evaluating organic compound migration in poly(ethylene terephthalate): a simple test with implications for polymer recycling. Sadler G, et al. **Food Addit Contam** 1996 Nov-Dec;13(8):979–89

Determination of potential migrants present in Nylon 'microwave and roasting bags' and migration into olive oil. Soto-Valdez H, et al. **Food Addit Contam** 1997 Apr; 14(3):309–18

Effects of feeding a return chewing gum/packaging material mixture on performance and carcass characteristics of

feedlot cattle. Wolf BW, et al. **J Anim Sci** 1996 Nov; 74(11):2559–65

Bacterial contaminants in liquid packaging boards: assessment of potential for food spoilage. Pirttijärvi TS, et al. **J Appl Bacteriol** 1996 Oct;81(4):445–58

[Repetitive movement of the upper limbs: results of exposure evaluation and clinical investigation during jar packaging of preserved vegetables] Panzone I, et al. **Med Lav** 1996 Nov–Dec;87(6):640–5 (Eng. Abstr.) **(Ita)**

[Repetitive movements of the upper limbs: results of exposure evaluation and clinical investigation in the production and packaging of ice cream] Sannino G, et al. **Med Lav** 1996 Nov–Dec;87(6):598–602 (Eng. Abstr.) **(Ita)**

[Color loss evaluation of a dietary formulation in function of temperature, storage time and packaging] Torres A, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):54–8 (Eng. Abstr.) **(Spa)**

LEGISLATION & JURISPRUDENCE

Food contact substances and the need for food safety reform. Heckman JH. **Regul Toxicol Pharmacol** 1996 Dec; 24(3):236–9

METHODS

Effect of modified atmosphere packaging on the TVB/TMA–producing microflora of cod fillets. Debevere J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):221–9

Predictive modeling of the growth of Listeria monocytogenes in CO2 environments. Farber JM, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):133–44

Effects of modified atmosphere and vacuum packaging on the growth of spoilage and inoculated pathogenic bacteria on fresh poultry. Ozbaş ZY, et al. **Z Lebensm Unters Forsch** 1996 Oct;203(4):326–32

STANDARDS

[A method of determining global migration from plastic packing materials into model fluids simulating food products containing fat according to directives of the EWG Commission] Lewandowska I, et al. **Rocz Panstw Zakl Hig** 1996;47(4):415–21 (Eng. Abstr.) **(Pol)**

FOOD PARASITOLOGY

Mite–related allergy and oral tolerance. Matsumoto T, et al. **Allergy** 1996 Apr;51(4):276–7

Anaphylaxis to the ingestion and inhalation of Tenebrio molitor (mealworm) and Zophobas morio (superworm). Freye HB, et al. **Allergy Asthma Proc** 1996 Jul–Aug; 17(4):215–9

Livers in the fast lane. Flemmer M, et al. **Am J Gastroenterol** 1996 Dec;91(12):2629–30

Unjust desserts? Flemmer M, et al. **Am J Gastroenterol** 1997 Apr;92(4):716–7

Emerging issues in microbiological food safety. Meng J, et al. **Annu Rev Nutr** 1997;17:255–75 (92 ref.)

Outbreak of trichinosis in Ontario secondary to the ingestion of wild boar meat. Greenbloom SL, et al. **Can J Public Health** 1997 Jan–Feb;88(1):52–6

Cyclospora: update on an emerging pathogen. Gumbo T, et al. **Cleve Clin J Med** 1997 Jun;64(6):299–301 (17 ref.)

Cyclosporiasis: another emerging pathogen comes ashore. Werker DH. **CMAJ** 1997 Aug 1;157(3):295–6 **(Eng, Fre)**

Cyclosporiasis in North America associated with fruit and vegetables. **Commun Dis Rep CDR Wkly** 1997 Aug 8; 7(32):283, 286

Widespread foodborne cyclosporiasis outbreaks present major challenges [letter] Colley DG. **Emerg Infect Dis** 1996 Oct–Dec;2(4):354–6

Diphyllobothriasis after eating raw salmon. Hutchinson JW, et al. **Hawaii Med J** 1997 Jul;56(7):176–7

Cryptosporidiosis and public health [editorial] Marshall AT, et al. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):11, 15–6, 23

Zoonotic potential of infection with Fasciola spp. by consumption of freshly prepared raw liver containing immature flukes. Taira N, et al. **Int J Parasitol** 1997 Jul; 27(7):775–9

Current trends in human diseases associated with foods of animal origin. Morris JG Jr. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2045–7 (2 ref.)

Human distomatosis due to Fasciola hepatica infection in Assam, India. Narain K, et al. **J Commun Dis** 1997 Jun; 29(2):161–5

Case report: locally acquired trichinosis in an immigrant from Southeast Asia. Graves T, et al. **J Okla State Med Assoc** 1996 Nov;89(11):402–4

Outbreaks of Cyclospora cayetanensis infection—United States, 1996. **MMWR Morb Mortal Wkly Rep** 1996 Jun 28;45(25):549–51

Cyclosporiasis and raspberries [letter] Cockerill FR 3rd. **N Engl J Med** 1997 Oct 16;337(16):1171; discussion 1172

An outbreak in 1996 of cyclosporiasis associated with imported raspberries. The Cyclospora Working Group [see comments] Herwaldt BL, et al. **N Engl J Med** 1997 May 29;336(22):1548–56. Comment in: N Engl J Med 1997 May 29;336(22):1597–9.

Cyclosporiasis and raspberries [letter] Lavietes MH. **N Engl J Med** 1997 Oct 16;337(16):1171; discussion 1171–2

Cyclosporiasis and raspberries—lessons for the future [editorial; comment] Osterholm MT. **N Engl J Med** 1997 May 29;336(22):1597–9. Comment on: N Engl J Med 1997 May 29;336(22):1548–56.

Cyclosporiasis and raspberries [letter] Simini B. **N Engl J Med** 1997 Oct 16;337(16):1170; discussion 1171–2

Cyclosporiasis and raspberries [letter] Tritsch GL, et al. **N Engl J Med** 1997 Oct 16;337(16):1171; discussion 1172

A survey of Gnathostoma larvae in fresh water fish in the valley of the Yangtze River and morphological characteristics of the recovered larvae. Koga M, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):542–7

Control of Parasitic Diseases, Food Safety and the Environment. Proceedings of the 15th International Conference of the World Association for the Advancement of Veterinary Parasitology. Yokohama, Japan, 30 August–2 September 1995. **Vet Parasitol** 1996 Aug;64(1–2):1–169

Cooking and freezing may not protect against allergenic reactions to ingested Anisakis simplex antigens in humans. Audicana L, et al. **Vet Rec** 1997 Mar 1;140(9):235

[The disinfection of fish in the family Cyprinidae of Opisthorchis felineus Riv. metacercariae by the combined use of acetic acid and table salt] Zviagina VV, et al. **Med Parazitol (Mosk)** 1997 Jan–Mar;(1):9–12 (Eng. Abstr.) **(Rus)**

[Trichinellosis: study of 2 outbreaks in Navarre] Tiberio G, et al. **Enferm Infecc Microbiol Clin** 1997 Mar;15(3):151–3 (Eng. Abstr.) **(Spa)**

FOOD PLANTS see **PLANTS, EDIBLE**

FOOD POISONING

Livers in the fast lane. Flemmer M, et al. **Am J Gastroenterol** 1996 Dec;91(12):2629–30

Emerging issues in microbiological food safety. Meng J, et al. **Annu Rev Nutr** 1997;17:255–75 (92 ref.)

'Must it have been something I ate?' [editorial] Veitch MG, et al. **Aust N Z J Public Health** 1997 Feb;21(1):7–9

Scombrotoxicosis–like illness following the ingestion of smoked salmon that demonstrated low histamine levels and high toxicity on mouse bioassay. Gessner BD, et al. **Clin Infect Dis** 1996 Dec;23(6):1316–8

An outbreak of viral gastroenteritis following a wedding reception. Hicks NJ, et al. **Commun Dis Rep CDR Rev** 1996 Sep 13;6(10):R136–9

Scombrotoxic fish poisoning and imported tuna steaks. **Commun Dis Rep CDR Wkly** 1997 Jan 10;7(2):9, 12

Myoglobinuria due to quail poisoning. Papadimitriou A, et al. **Eur Neurol** 1996;36(3):142–5

Emerging foodborne diseases. **Indian Pediatr** 1997 Feb; 34(2):171–2

A mixed foodborne outbreak with Salmonella heidelberg and Campylobacter jejuni in a nursing home. Layton MC, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):115–21

Ichthyosarcotoxism: poisoning by edible fish. Grant IC. **J Accid Emerg Med** 1997 Jul;14(4):246–51 (56 ref.)

Does organic gardening foster foodborne pathogens? [letter; comment] DiMatteo KT. **JAMA** 1997 Jun 4; 277(21):1679–80. Comment on: JAMA 1997 Jan 8;277(2):97–8.

From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Jun 4;277(21):1664

New approaches for detecting and curtailing foodborne microbial infections [news] Stephenson J. **JAMA** 1997 May 7;277(17):1337, 1339–40

Public health experts take aim at a moving target: foodborne infections [news] [see comments] Stephenson J. **JAMA** 1997 Jan 8;277(2):97–8. Comment in: JAMA 1997 Jun 4;277(21):1679–80.

Foodborne diseases. Lee CC, et al. **Singapore Med J** 1996 Apr;37(2):197–204 (55 ref.)

Bacterial enterotoxins. Vaishnavi C. **Trop Gastroenterol** 1996 Jul–Sep;17(3):160–4 (39 ref.)

Virus transmission via food. Cliver DO. **World Health Stat Q** 1997;50(1–2):90–101 (53 ref.)

[Licorice. A basis for precautions one more time!] Folkersen L, et al. **Ugeskr Laeger** 1996 Dec 16;158(51):7420–1 (Eng. Abstr.) **(Dan)**

[Food poisoning (editorial)] Gutschik E. **Ugeskr Laeger** 1997 Sep 1;159(36):5351–2 **(Dan)**

[Co–occurring trichinellosis and sausage poisoning: report of 4 cases] Furmaniuk J. **Przegl Epidemiol** 1996;50(4):443–5 (Eng. Abstr.) **(Pol)**

BLOOD

[The dynamic levels of acute–phase proteins and of the lipopolysaccharide–bonding activity of the peripheral blood neutrophils in patients with acute intestinal infections] Malov VA, et al. **Ter Arkh** 1996;68(11):23–7 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Chronic health effects of microbial foodborne disease. Bunning VK, et al. **World Health Stat Q** 1997;50(1–2):51–6 (45 ref.)

[Nephropathy by food poisoning] Yoshikawa Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):560–2 (8 ref.) **(Jpn)**

DIAGNOSIS

Drug–food interaction with isoniazid resembling anaphylaxis [letter; comment] O'Sullivan TL. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):928–9. Comment on: Ann Pharmacother 1997 Mar;31(3):373–4.

A temporal extension to the parsimonious covering theory. Wainer J, et al. **Artif Intell Med** 1997 Jul;10(3):235–55

Beast in the belly. Greene J. **Hosp Health Netw** 1997 Sep 5;71(17):12, 14

Scombroid fish poisoning: a potentially life–threatening allergic–like reaction. Sánchez–Guerrero IM, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):433–4

[General practice case. Acute hepatitis A infection. Symptomatic and icteric course] Tränkle P, et al. **Schweiz Rundsch Med Prax** 1997 May 28;86(22):957–9 **(Ger)**

[The clinical manifestations and treatment of shock in acute intestinal infections] Brodov LE, et al. **Ter Arkh** 1996; 68(11):27–9 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

[Mass ciguatera poisoning after eating barracuda in Mexico: prognostic and therapeutic implications] De Haro L, et al. **Med Trop (Mars)** 1997;57(1):55–8 (Eng. Abstr.) **(Fre)**

ECONOMICS

Economic costs and trade impacts of microbial foodborne illness. Buzby JC, et al. **World Health Stat Q** 1997; 50(1–2):57–66

EPIDEMIOLOGY

The problems of food–borne disease in Hungary. Ralovich B. **Acta Microbiol Immunol Hung** 1996;43(4):319–32

Association of Sauropus androgynus and bronchiolitis obliterans syndrome: a hospital–based case–control study. Ger LP, et al. **Am J Epidemiol** 1997 May 1;145(9):842–9

A cohort study on mortality and exposure to polychlorinated biphenyls. Hsieh SF, et al. **Arch Environ Health** 1996 Nov–Dec;51(6):417–24

International investigation of outbreaks of foodborne disease [editorial; comment] Tauxe RV, et al. **BMJ** 1996 Nov 2; 313(7065):1093–4. Comment on: BMJ 1996 Nov 2;313(7065):1105–7. Comment on: BMJ 1996 Nov 2;313(7065):1107–9.

Outbreaks of Escherichia coli O157:H7 infection and cryptosporidiosis associated with drinking unpasteurized apple cider—Connecticut and New York, October 1996. **Can Commun Dis Rep** 1997 Mar 1;23(5):37–40 **(Eng, Fre)**

General outbreaks of infectious intestinal disease associated with milk and dairy products in England and Wales: 1992 to 1996. Djuretic T, et al. **Commun Dis Rep CDR Rev** 1997 Mar 7;7(3):R41–5

Outbreaks of foodborne viral gastroenteritis in England and Wales: 1992 to 1994. Luthi TM, et al. **Commun Dis Rep CDR Rev** 1996 Sep 13;6(10):R131–6 (31 ref.)

Risk factors for outbreaks of infectious intestinal disease linked to domestic catering. Ryan MJ, et al. **Commun Dis Rep CDR Rev** 1996 Dec 6;6(13):R179–83

Outbreak of Escherichia coli O157 phage type 2 infection associated with eating precooked meats. Stevenson J, et al. **Commun Dis Rep CDR Rev** 1996 Jul 19;6(8):R116–8

Outbreak of fatal food poisoning in India: August 1996. **Commun Dis Rep CDR Wkly** 1996 Aug 23;6(34):293

An outbreak of diarrhetic shellfish poisoning. **Commun Dis Rep CDR Wkly** 1997 Jul 11;7(28):247

Surveillance of infectious intestinal disease. **Commun Dis Rep CDR Wkly** 1996 Feb 9;6(6):45

Developing a standard enhanced surveillance system for food poisoning. **Commun Dis Rep CDR Wkly** 1997 Jun 13; 7(24):207, 210

Emerging foodborne diseases. Altekruse SF, et al. **Emerg Infect Dis** 1997 Jul–Sep;3(3):285–93 (59 ref.)

Problems in the diagnosis of foodborne infection in general practice. Palmer S, et al. **Epidemiol Infect** 1996 Dec; 117(3):479–84

A foodborne outbreak of gastroenteritis involving Listeria monocytogenes. Salamina G, et al. **Epidemiol Infect** 1996 Dec;117(3):429–36

Subtyping of Bacillus cereus by total cell protein patterns and arbitrary primer polymerase chain reaction. Matar GM, et al. **Eur J Epidemiol** 1996 Jun;12(3):309–14

Nosocomial infections by Listeria monocytogenes: analysis of a cluster of septicemias in immunocompromised patients. Elsner HA, et al. **Infection** 1997 May–Jun;25(3):135–9

Evaluation of serotyping, biotyping, plasmid banding pattern analysis, and HEp–2 vacuolation factor assay in the epidemiological investigation of Bacillus cereus emetic–syndrome food poisoning. Nishikawa Y, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):149–59

The major sources of Salmonella enteritidis in Thailand. Sakai T, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):173–80

Current trends in human diseases associated with foods of animal origin. Morris JG Jr. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2045–7 (2 ref.)

From the Centers for Disease Control and Prevention. Foodborne Diseases Active Surveillance Network, 1996. **JAMA** 1997 May 7;277(17):1344–5

From the Centers for Disease Control and Prevention. Foodborne outbreak of diarrheal illness associated with Cryptosporidium parvum—Minnesota, 1995. **JAMA** 1996

Oct 16;276(15):1214

From the Centers for Disease Control and Prevention. Outbreak of Escherichia coli O157:H7 infections associated with drinking unpasteurized commercial apple juice--British Columbia, California, Colorado, and Washington, October 1996. **JAMA** 1996 Dec 18; 276(23):1865

From the Centers for Disease Control. Outbreak of cyclosporiasis--Northern Virginia-Washington, DC-Baltimore, Maryland, metropolitan area, 1997. **JAMA** 1997 Aug 20;278(7):538-9

From the Centers for Disease Control and Prevention. Outbreaks of Escherichia coli O157:H7 infection associated with eating alfalfa sprouts--Michigan and Virginia, June-July 1997. **JAMA** 1997 Sep 10;278(10):809-10

An outbreak of Escherichia coli O157:H7 infections traced to jerky made from deer meat. Keene WE, et al. **JAMA** 1997 Apr 16;277(15):1229-31

An outbreak of Shigella dysenteriae type 2 among laboratory workers due to intentional food contamination. Kolavic SA, et al. **JAMA** 1997 Aug 6;278(5):396-8

Foodborne disease: current trends and future surveillance needs in Australia. Crerar SK, et al. **Med J Aust** 1996 Dec 2-16;165(11-12):672-5

Foodborne disease: emerging problems and solutions. Desmarchelier PM. **Med J Aust** 1996 Dec 2-16; 165(11-12):668-71

Foodborne disease: how to respond? Hedberg CW. **Med J Aust** 1996 Dec 2-16;165(11-12):667

Surveillance for foodborne-disease outbreaks--United States, 1988-1992. Bean NH, et al. **MMWR CDC Surveill Summ** 1996 Oct 25;45(5):1-66

Outbreak of cyclosporiasis--northern Virginia-Washington, D.C.-Baltimore, Maryland, metropolitan area, 1997. **MMWR Morb Mortal Wkly Rep** 1997 Aug 1;46(30):689-91

Foodborne Diseases Active Surveillance Network, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Mar 28; 46(12):258-61

Outbreak of Escherichia coli O157:H7 infection--Georgia and Tennessee, June 1995. **MMWR Morb Mortal Wkly Rep** 1996 Mar 29; 45(12):249-51

Outbreak of Escherichia coli O157:H7 infections associated with drinking unpasteurized commercial apple juice--British Columbia, California, Colorado, and Washington, October 1996. **MMWR Morb Mortal Wkly Rep** 1996 Nov 8;45(44):975

Cyclosporiasis and raspberries--lessons for the future [editorial; comment] Osterholm MT. **N Engl J Med** 1997 May 29;336(22):1597-9. Comment on: N Engl J Med 1997 May 29;336(22):1548-56.

Let's do lunch: food poisoning at school. Adams RM. **Pediatr Infect Dis J** 1996 Mar;15(3):274-6

More chaos on the microbiology front: the E. coli 0157 outbreaks. Rowbury RJ. **Sci Prog** 1997;80 (Pt 1):3-4

Harmonizing human health studies in the Great Lakes. Hicks HE, et al. **Toxicol Ind Health** 1996 May-Aug; 12(3-4):467-76

Michigan's fisheater cohorts: a prospective history of exposure. Humphrey HE, et al. **Toxicol Ind Health** 1996 May-Aug;12(3-4):499-505 (9 ref.)

Neuropsychological assessment of an aging population of Great Lakes fisheaters. Schantz SL, et al. **Toxicol Ind Health** 1996 May-Aug;12(3-4):403-17

Identification of Caribbean ciguatoxins as the cause of an outbreak of fish poisoning among U.S. soldiers in Haiti. Poli MA, et al. **Toxicon** 1997 May;35(5):733-41

Ciguatera in Réunion Island (SW Indian Ocean): epidemiology and clinical patterns. Quod JP, et al. **Toxicon** 1996 Jul;34(7):779-85

An estimate of the incidence of pesticide poisoning in Hong Kong. Chan TY, et al. **Vet Hum Toxicol** 1996 Oct; 38(5):362-4 (12 ref.)

Scombroid fish poisoning: an overlooked marine food poisoning. Wu ML, et al. **Vet Hum Toxicol** 1997 Aug; 39(4):236-41

E coli outbreak prompts tightening of food safety procedures [news] **Vet Rec** 1997 Jan 25;140(4):79-80

E coli O157: lessons of the Scottish outbreak [news] **Vet Rec** 1997 Apr 12;140(15):382

Clostridium perfringens outbreak at a juvenile detention facility linked to a Thanksgiving holiday meal. Parikh AI, et al. **West J Med** 1997 Jun;166(6):417-9

Food safety. Enterohaemorrhagic Escherichia coli (EHEC) infection. **Wkly Epidemiol Rec** 1997 Jun 20;72(25):185 **(Eng, Fre)**

The role of food in the epidemiology of cholera. Albert MJ, et al. **World Health Stat Q** 1997;50(1-2):111-8 (59 ref.)

Surveillance of foodborne diseases: what are the options? Borgdorff MW, et al. **World Health Stat Q** 1997; 50(1-2):12-23 (120 ref.)

Foodborne diseases in travellers. Cartwright RY, et al. **World Health Stat Q** 1997;50(1-2):102-10 (40 ref.)

Food safety: a commonly underestimated public health issue. Käferstein FK. **World Health Stat Q** 1997;50(1-2):3-4

Global estimation of foodborne diseases. Motarjemi Y, et al. **World Health Stat Q** 1997;50(1-2):5-11 (7 ref.)

Epidemiology of foodborne diseases: tools and applications. Potter ME, et al. **World Health Stat Q** 1997;50(1-2):24-9 (19 ref.)

Foodborne listeriosis. Rocourt J, et al. **World Health Stat Q** 1997;50(1-2):67-73 (27 ref.)

Enterohaemorrhagic Escherichia coli. Takeda Y. **World Health Stat Q** 1997;50(1-2):74-80 (57 ref.)

Epidemiology of foodborne diseases: a worldwide review. Todd EC. **World Health Stat Q** 1997;50(1-2):30-50 (133 ref.)

[Food poisoning and infection in 1995] Przybylska A. **Przegl Epidemiol** 1997;51(1-2):97-109 **(Pol)**

[An outbreak of acute intestinal infections in a nursery-kindergarten (2)] Solodovnikov IuP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan-Feb; (1):111-2 **(Rus)**

[An outbreak of food poisoning at a children's rest center (epidemiological practice No. 6)] Solodovnikov IuP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan-Feb; (1):105-6 **(Rus)**

[Food poisoning at a boarding school (epidemiological practice No. 7)] Solodovnikov IuP, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan-Feb; (1):106-7 **(Rus)**

[Collective scombroid fish poisoning following tuna consumption in Castellon] Arnedo Pena A, et al. **Med Clin (Barc)** 1996 Nov 16;107(17):645-8 (Eng. Abstr.) **(Spa)**

[Red tides in México: a review] Cortés-Altamirano R, et al. **Rev Latinoam Microbiol** 1995 Oct-Dec;37(4):343-52 (40 ref.) (Eng. Abstr.) **(Spa)**

ETIOLOGY

Vibrio mimicus diarrhea following ingestion of raw turtle eggs. Campos E, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1141-4

Nitrate preserved sausage meat causes an unusual food poisoning incident. Bacon R. **Commun Dis Rep CDR Rev** 1997 Mar 7;7(3):R45-7

Poisonings: food, fish, shellfish. Mines D, et al. **Emerg Med Clin North Am** 1997 Feb;15(1):157-77 (65 ref.)

Characterisation of a non-haemolytic enterotoxin complex from Bacillus cereus isolated after a foodborne outbreak. Lund T, et al. **FEMS Microbiol Lett** 1996 Aug 1; 141(2-3):151-6

Emerging food-borne diseases [editorial] Ebrahim GJ. **J Trop Pediatr** 1997 Aug;43(4):190-1

American seeds suspected in Japanese food poisoning epidemic [news] Nathan R. **Nat Med** 1997 Jul;3(7):705-6

Oleoylanilide, a possible causative agent of toxic oil syndrome, interferes with the cytoskeleton in a neuronal cell line. Martínez JL, et al. **Neurotoxicol Teratol** 1997 Mar-Apr;19(2):147-50

Foodborne diseases in travellers. Cartwright RY, et al. **World Health Stat Q** 1997;50(1-2):102-10 (40 ref.)

Improving the safety of street-vended food. Moy G, et al. **World Health Stat Q** 1997;50(1-2):124-31 (8 ref.)

Ciguatera fish poisoning following travel to the tropics. Sanner BM, et al. **Z Gastroenterol** 1997 May;35(5):327-30

[Cannabis poisoning after eating salad] Meier H, et al. **Schweiz Med Wochenschr** 1997 Feb 8;127(6):214-8 (Eng. Abstr.) **(Ger)**

[Fatal food poisoning by parathion] Laynez Bretones F, et al. **Med Clin (Barc)** 1997 Feb 15;108(6):224-5 (17 ref.) (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Cytokine mRNA expression in lung tissue from toxic oil syndrome patients: a TH2 immunological mechanism. del Pozo V, et al. **Toxicology** 1997 Mar 14;118(1):61-70

METABOLISM

Biologically active lipids from S. scombrus. Rementzis J, et al. **Adv Exp Med Biol** 1996;416:65-72

MICROBIOLOGY

Escherichia coli O157: occurrence, transmission and laboratory detection. Easton L. **Br J Biomed Sci** 1997 Mar; 54(1):57-64 (33 ref.)

A foodborne outbreak of gastroenteritis involving Listeria monocytogenes. Salamina G, et al. **Epidemiol Infect** 1996 Dec;117(3):429-36

Subtyping of Bacillus cereus by total cell protein patterns and arbitrary primer polymerase chain reaction. Matar GM, et al. **Eur J Epidemiol** 1996 Jun;12(3):309-14

A review of Vibrio vulnificus infections related to eating raw oysters, including three cases in Arkansas residents. **J Ark Med Soc** 1996 Mar;92(10):509-10

Subspecies typing of Vibrio parahaemolyticus by pulsed-field gel electrophoresis. Wong HC, et al. **J Clin Microbiol** 1996 Jun;34(6):1535-9

Mouse lethal activity of a HEp-2 vacuolation factor, cereulide, produced by Bacillus cereus isolated from vomiting-type food poisoning. Shinagawa K, et al. **J Vet Med Sci** 1996 Oct;58(10):1027-9

Fulminant liver failure in association with the emetic toxin of Bacillus cereus [see comments] Mahler H, et al. **N Engl J Med** 1997 Apr 17;336(16):1142-8. Comment in: N Engl J Med 1997 Apr 17;336(16):1173-4.

Power failure, liver failure [editorial; comment] Schafer DF, et al. **N Engl J Med** 1997 Apr 17;336(16):1173-4. Comment on: N Engl J Med 1997 Apr 17;336(16):1142-8.

Incompleteness of statutory notification of bacterial gastro-intestinal infection. Barrett P, et al. **Public Health** 1997 May;111(3):183-5

Hemolysins and plasmid profiles of Vibrio parahaemolyticus. Vadivelu J, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):126-31

Animal and human listeriosis: a shared problem? [editorial; comment] McLauchlin J. **Vet J** 1997 Jan;153(1):3-5. Comment on: Vet J 1997 Jan;153(1):9-29.

The role of food in the epidemiology of cholera. Albert MJ, et al. **World Health Stat Q** 1997;50(1-2):111-8 (59 ref.)

Economic costs and trade impacts of microbial foodborne illness. Buzby JC, et al. **World Health Stat Q** 1997; 50(1-2):57-66

Enterohaemorrhagic Escherichia coli. Takeda Y. **World Health Stat Q** 1997;50(1-2):74-80 (57 ref.)

Plasmid profiling for strain differentiation and characterization of Clostridium perfringens isolates. Eisgruber H, et al. **Zentralbl Veterinarmed [B]** 1996 May; 43(3):137-46

[Food-borne streptococcal epidemics] Jespersen NB, et al. **Ugeskr Laeger** 1997 Sep 1;159(36):5368-71 (Eng. Abstr.) **(Dan)**

[Infections caused by enterohemorrhagic Escherichia coli strains] Stock I, et al. **Med Monatsschr Pharm** 1997 Mar; 20(3):58-65 (60 ref.) **(Ger)**

[Enteropathogenic Escherichia coli strains harboring enteroaggregative Escherichia coli (EAggEC) heat-stable enterotoxin-1 gene isolated from a food-borne like outbreak] Yatsuyanagi J, et al. **Kansenshogaku Zasshi** 1996 Jan;70(1):73-9 (Eng. Abstr.) **(Jpn)**

[Exotoxins of Bacillus cereus associated with food poisoning] Agata N, et al. **Nippon Saikingaku Zasshi** 1996 Oct; 51(4):993-1002 (38 ref.) **(Jpn)**

MORTALITY

A cohort study on mortality and exposure to polychlorinated biphenyls. Hsieh SF, et al. **Arch Environ Health** 1996 Nov-Dec;51(6):417-24

PARASITOLOGY

Eustrongylidiasis--a parasitic infection acquired by eating live minnows. Narr LL, et al. **J Am Osteopath Assoc** 1996 Jul;96(7):400-2

PHYSIOPATHOLOGY

Tetrodotoxic poisoning from ingestion of a porcupine fish (Diodon hystrix) in Papua New Guinea: nerve conduction studies. Trevett AJ, et al. **Am J Trop Med Hyg** 1997 Jan; 56(1):30-2

Electrophysiological studies on acute tetrodotoxin poisoning: a case report. Fong VH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Oct; 58(4):299-302

PREVENTION & CONTROL

E coli report calls for better food safety [news] Christie B. **BMJ** 1997 Apr 19;314(7088):1147

E coli inquiry calls for stricter laws on selling meat [news] [see comments] Christie B. **BMJ** 1997 Jan 25;314(7076):249 . Comment in: BMJ 1997 Jan 25;314(7076):241.

The application of quantitative risk assessment to microbial food safety risks. Jaykus LA. **Crit Rev Microbiol** 1996; 22(4):279-93 (48 ref.)

Poisonings: food, fish, shellfish. Mines D, et al. **Emerg Med Clin North Am** 1997 Feb;15(1):157-77 (65 ref.)

International meat and poultry HACCP alliance. Cross HR. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2048

An HACCP learning module for graduate veterinarians. Cullor JS. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):2049-50

Effectiveness of microbiologic criteria for the safety of foods of animal origin. Dreesen DW. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2052-4 (3 ref.)

Why not irradiate? [letter] [see comments] Erbeck DH. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1379. Comment in: J Am Vet Med Assoc 1997 Jan 1;210(1):18.

Risk assessment and its role in the safety of foods of animal origin. Kindred TP. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):2055-6 (3 ref.)

Potentials of cold pasteurization for the safety of foods of animal origin. Mussman HC. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2057-8

S.O.S. ...---... help prevent E coli O157:H7 ... et al! [news] Reed CA, et al. **J Am Vet Med Assoc** 1996 Oct 1; 209(7):1213

Neglected but common sense steps to prevent foodborne illness [news] Reed CA, et al. **J Am Vet Med Assoc** 1996 Sep 15;209(6):1053

FSIS consolidates to improve services [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Apr 1;210(7):880

Prevention is best against foodborne illness [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):316

Swine pathogen emerges as human pathogen [news] Reed CA. **J Am Vet Med Assoc** 1997 Mar 1;210(5):604

Pre-harvest food safety as part of a farm-to-table pathogen reduction program to prevent foodborne disease [letter; comment] Tollefson L, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):718-21. Comment on: J Am Vet Med Assoc 1996 Jun 15;208(12):1964-5.

The provision of food and catering services in hospital. Barrie D. **J Hosp Infect** 1996 May;33(1):13-33 (70 ref.)

Raising food hygiene standards--could customer power and the new laws hold the key? Leach JC. **J R Soc Health** 1996 Dec;116(6):351-5 (36 ref.)

Putting money where the US mouth is: initiative on food safety gets under way [news] Marwick C. **JAMA** 1997 May 7;277(17):1340-2

Prevention of Vibrio vulnificus infections. Assessment of regulatory educational strategies. Mouzin E, et al. **JAMA** 1997 Aug 20;278(7):576-8

Fish consumption advisories and outreach programs for Southeast Asian immigrants. Shubat PJ, et al. **Toxicol Ind Health** 1996 May-Aug;12(3-4):427-34

E coli outbreak prompts tightening of food safety procedures [news] **Vet Rec** 1997 Jan 25;140(4):79-80

Safety of reheated foods [letter; comment] Borque OV. **World Health Forum** 1996;17(1):78-9. Comment on: World Health Forum 1991;12(4):403-5. Comment on: World Health Forum 1993;14(4):437-8. Comment on: World Health Forum 1994;15(1):69-71.

Improving the safety of street-vended food. Moy G, et al. **World Health Stat Q** 1997;50(1-2):124-31 (8 ref.)

[Health risks due to unpasteurized milk?] Greubel S. **Med Monatsschr Pharm** 1997 Jan;20(1):20-1 **(Ger)**

[An ecological study for prediction of Vibrio parahaemolyticus food poisoning in Shizuoka prefecture] Kubota T. **Nippon Koshu Eisei Zasshi** 1996 Sep; 43(9):844-53 (Eng. Abstr.) **(Jpn)**

VETERINARY

Sorghum spp neurotoxicity in sheep. Bourke C. **Aust Vet J** 1995 Dec;72(12):467

Diagnosis of oleander poisoning in livestock. Galey FD, et al. **J Vet Diagn Invest** 1996 Jul;8(3):358-64

Recent acute and subacute mycotoxicoses recognized in France. Le Bars J, et al. **Vet Res** 1996;27(4-5):383-94 (36 ref.)

[Animal nutrition in veterinary medicine: actual situations: decreased feed intake in swine] Zentek J, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jan;104(1):36-7 (Eng. Abstr.) **(Ger)**

FOOD POLICY see **NUTRITION POLICY**

FOOD PREFERENCES

The role of congruency and pleasantness in odor-induced taste enhancement. Schifferstein HN, et al. **Acta Psychol (Amst)** 1996 Oct;94(1):87-105

Food shopping and label use behavior among high school-aged adolescents. McCullum C, et al. **Adolescence** 1997 Spring;32(125):181-97

Adaptation of African-American cultural and food preferences in end-stage renal disease diets. Patel C, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):30-9 (14 ref.)

Sodium intake trends and food choices. Engstrom A, et al. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):704S-707S

Reduced food intake after jejunoileal bypass: a possible association with prolonged gastric emptying and altered gut hormone patterns [see comments] Näslund E, et al. **Am J Clin Nutr** 1997 Jul;66(1):26-32. Comment in: Am J Clin Nutr 1997 Jul;66(1):184-5.

Food preferences among individuals with and without Prader-Willi syndrome. Glover D, et al. **Am J Ment Retard** 1996 Sep;101(2):195-205

Carbohydrate versus fat intake: differing patterns of macronutrient selection in two inbred mouse strains. Smith BK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R357-62

Taste preferences and food intake. Drewnowski A. **Annu Rev Nutr** 1997;17:237-53 (109 ref.)

Impact of changing food choices and eating habits on nutritional status in European countries. **Appetite** 1996 Aug; 27(1):91-4

Do type as eat differently? A comparison of men and women. Barker ME, et al. **Appetite** 1996 Jun;26(3):277-85

Food choice: a conceptual model of the process. Furst T, et al. **Appetite** 1996 Jun;26(3):247-65

Hyperphagia in dementia: 2. Food choices and their macronutrient contents in hyperphagia, dementia and ageing. Keene JM, et al. **Appetite** 1997 Apr;28(2):167-75

From the lab to the living room: consumer studies of ingestive behavior. Mela DJ, et al. **Appetite** 1996 Jun;26(3):303

Food cravings in young and elderly adults. Pelchat ML. **Appetite** 1997 Apr;28(2):103-13

Meal pattern and nutrient intake among adult Finns. Roos E, et al. **Appetite** 1997 Aug;29(1):11-24

Influences on meat avoidance among British students. Santos ML, et al. **Appetite** 1996 Dec;27(3):197-205

Increased liking for salty foods in adolescents exposed during infancy to a chloride-deficient feeding formula. Stein LJ, et al. **Appetite** 1996 Aug;27(1):65-77

Adolescents' reported usage of selected foods in relation to their perceptions and social norms for those foods. Woodward DR, et al. **Appetite** 1996 Oct;27(2):109-17

Disadvantage, and the cost of food [letter; comment] Mackerras D. **Aust N Z J Public Health** 1997 Apr;21(2):218 . Comment on: Aust N Z J Public Health 1996 Dec;20(6):611-7.

Structural, material and economic influences on the food-purchasing choices of socioeconomic groups [see comments] Turrell G. **Aust N Z J Public Health** 1996 Dec; 20(6):611-7. Comment in: Aust N Z J Public Health 1997 Apr;21(2):218.

Food intake and diet selection in sheep: the effect of manipulating the rates of digestion of carbohydrates and protein of the foods offered as a choice. Kyriazakis I, et al. **Br J Nutr** 1997 Feb;77(2):243-54

Short-term effects of food protein content on subsequent diet selection by chickens and the consequences of alternate feeding of high- and low-protein foods. Forbes JM, et al. **Br Poult Sci** 1996 Jul;37(3):597-607

Diet and risk of renal cell cancer: a population-based case-control study. Lindblad P, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr;6(4):215-23

Changes in taste perception following mental or physical stress. Nakagawa M, et al. **Chem Senses** 1996 Apr; 21(2):195-200

Selective eaters: a retrospective case note study. Timimi S, et al. **Child Care Health Dev** 1997 May;23(3):265-78

Effects of short-term exercise on appetite responses in unrestrained females. King NA, et al. **Eur J Clin Nutr** 1996 Oct;50(10):663-7

Influences on food choice perceived to be important by nationally-representative samples of adults in the European Union. Lennernäs M, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S8-15

The role of macronutrient selection in determining patterns of food intake in obese and non-obese women. Westerterp-Plantenga MS, et al. **Eur J Clin Nutr** 1996 Sep; 50(9):580-91

Obesity treated with phototherapy: four case studies. Bylesjö EI, et al. **Int J Eat Disord** 1996 Dec;20(4):443-46

Sensory quality ratings, consumption pattern and preference for some selected meat types in Nigeria. Ladele AA, et al. **Int J Food Sci Nutr** 1996 Mar;47(2):141-5

Serotoninergic drug-induced weight loss in carbohydrate craving obese patients. Toornvliet AC, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):917-20

Young adult exercisers and nonexercisers differ in food attitudes, perceived dietary changes, and food choices. Georgiou C, et al. **Int J Sport Nutr** 1996 Dec;6(4):402-13

Comparison of dietary self-efficacy and behavior among American-born and foreign-born Chinese adolescents residing in New York City and Chinese adolescents in Guangzhou, China [see comments] Sun WY, et al. **J Am Coll Nutr** 1997 Apr;16(2):127-33. Comment in: J Am Coll Nutr 1997 Apr;16(2):103-4.

Among young adults, college students and graduates practiced more healthful habits and made more healthful food choices than did nonstudents. Georgiou CC, et al. **J Am Diet Assoc** 1997 Jul;97(7):754-9

Food preferences predict eating behavior of very young Mohawk children. Harvey-Berino J, et al. **J Am Diet Assoc** 1997 Jul;97(7):750-3

Using cluster analysis to examine dietary patterns: nutrient intakes, gender, and weight status differ across food pattern clusters. Wirfält AK, et al. **J Am Diet Assoc** 1997 Mar; 97(3):272-9

Using obsessions as reinforcers with and without mild reductive procedures to decrease inappropriate behaviors of children with autism. Charlop-Christy MH, et al. **J Autism Dev Disord** 1996 Oct;26(5):527-46

Effect of fungal biomass in moldy alfalfa hay on preference by dairy calves with no previous exposure to moldy feeds. Undi M, et al. **J Dairy Sci** 1996 Jul;79(7):1250-4

Taste preference for sweetness in urban and rural populations in Iraq. Jamel HA, et al. **J Dent Res** 1996 Nov; 75(11):1879-84

Parental smoking and the nutrient intake and food choice of British teenagers aged 16-17 years. Crawley HF, et al. **J Epidemiol Community Health** 1996 Jun;50(3):306-12

Some aspects of food choice and availability today. Bürger I. **Nutr Health** 1997;11(4):233-8

Do children eat what they say? Validity of intended food choices among Native American school children. Toporoff EG, et al. **Obes Res** 1997 Mar;5(2):87-92

Eating behaviour, food preferences and dietary intake in relation to obesity and body-weight status. Mela DJ. **Proc Nutr Soc** 1996 Nov;55(3):803-16 (122 ref.)

[Identification of food sources of Anopheles aquasalis (Diptera: Culicidae) by precipitin test in the State of Rio de Janeiro, Brazil] Flores-Mendoza C, et al. **Rev Saude Publica** 1996 Apr;30(2):129-34 (Eng. Abstr.) **(Por)**

DRUG EFFECTS

Cholecystokinin octapeptide inhibits carbohydrate but not protein intake. Mamoun AH, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 2):R972-80

Monosodium glutamate affects mealtime food selection in diabetic patients. Bellisle F, et al. **Appetite** 1996 Jun; 26(3):267-75

Effects of dietary preference and galanin administration in the paraventricular or amygdaloid nucleus on diet self-selection. Smith BK, et al. **Brain Res Bull** 1996; 39(3):149-54

Small changes in essential amino acid concentrations alter diet selection in amino acid-deficient rats. Hrupka BJ, et al. **J Nutr** 1997 May;127(5):777-84

Dietary preferences in monosodium glutamate-lesioned rats: age-variable influence of hypothalamic neuropeptide Y. Beck B, et al. **Neurosci Lett** 1997 Apr 11;225(3):153-6

Chronic ICV enterostatin preferentially reduced fat intake and lowered body weight. Lin L, et al. **Peptides** 1997; 18(5):657-61

Intra-arcuate opiate actions stimulate GRF-dependent and protein-selective feeding. Vaccarino FJ, et al. **Peptides** 1997;18(2):197-205

Preferences for tastes paired with a nicotine antagonist in rats chronically treated with nicotine. Mucha RF. **Pharmacol Biochem Behav** 1997 Feb;56(2):175-9

Conditioned flavour preferences reinforced by caffeine consumed after lunch. Richardson NJ, et al. **Physiol Behav** 1996 Jul;60(1):257-63

Development of the enhanced neural response to NaCl in Fischer 344 rats. Schafe GE, et al. **Physiol Behav** 1997 May; 61(5):775-8

Cypha [propionic acid, 2-(4-methoxyphenol) salt] inhibits sweet taste in humans, but not in rats. Sclafani A, et al. **Physiol Behav** 1997 Jan;61(1):25-9

Selective effects of naltrexone on food pleasantness and intake. Yeomans MR, et al. **Physiol Behav** 1996 Aug; 60(2):439-46

The calcium channel agonist BAY k 8644 reduces ethanol intake and preference in alcohol-preferring AA rats. de Beun R, et al. **Psychopharmacology (Berl)** 1996 Oct; 127(4):302-10

Preference for saccharin-sweetened alcohol relative to isocaloric sucrose. Heyman GM. **Psychopharmacology (Berl)** 1997 Jan;129(1):72-8

Effects of bromocriptine on self-administration of sweetened ethanol solutions in rats. Nadal R, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):45-53

[Behavioral pharmacological studies on the effects of cocaine on alcohol preference in inbred strain of mouse C57BL/6J] Uemura K. **Nihon Arukoru Yakubutsu Igakkai Zasshi** 1997 Feb;32(1):59-77 (Eng. Abstr.) **(Jpn)**

ETHNOLOGY

Food preferences and eating attitudes in three generations of black and white women. Dacosta KO, et al. **Appetite** 1996 Oct;27(2):183-91

Food preferences, practices, and cancer-related food and nutrition knowledge of southwestern American Indian youth. Cunningham-Sabo LD, et al. **Cancer** 1996 Oct 1; 78(7 Suppl):1617-22

Development of a protocol to assess dietary intake among Hispanics who have low literacy skills in English. Lyons GK, et al. **J Am Diet Assoc** 1996 Dec;96(12):1276-9

Intakes of nutrients and foods relevant to bone health in ethnically diverse youths. Wang MC, et al. **J Am Diet Assoc** 1997 Sep;97(9):1010-3

Dietary patterns amongst ethnic Chinese pregnant women in Hong Kong. Wong HO, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):91-6

PHYSIOLOGY

Diabetic rats prefer glucose-paired flavors over fructose-paired flavors. Ackroff K, et al. **Appetite** 1997 Feb; 28(1):73-83

Food preferences and chemical senses: comments on the food attitude survey of Frank and van der Klaauw. Meiselman HL. **Appetite** 1996 Oct;27(2):193-5; discussion 196

Geometric analysis of macronutrient selection in the rat. Simpson SJ, et al. **Appetite** 1997 Jun;28(3):201-13

Role of vasopressin in long-term preferences of sucrose and polycose under ad-libitum and food-restricted conditions. Wideman CH, et al. **Appetite** 1997 Jun;28(3):189-200

Absence of a salt (NaCl) preference or appetite in sodium-replete or depleted kittens. Yu S, et al. **Appetite** 1997 Aug;29(1):1-10

Gustatory thalamus lesions in the rat: II. Aversive and appetitive taste conditioning. Reilly S, et al. **Behav Neurosci** 1996 Aug;110(4):746-59

Gustatory thalamus lesions in the rat: I. Innate taste preferences and aversions. Reilly S, et al. **Behav Neurosci** 1996 Aug;110(4):737-45

Aversion-preference patterns in amino acid- or protein-deficient rats: a comparison with previously reported responses to thiamin-deficient diets. Fromentin G, et al. **Br J Nutr** 1997 Feb;77(2):299-314

Eating frequency: methodological and dietary aspects. Gatenby SJ. **Br J Nutr** 1997 Apr;77 Suppl 1:S7-20 (72 ref.)

Preference for wheat straw by lambs conditioned with intraruminal infusions of starch. Villalba JJ, et al. **Br J Nutr** 1997 Feb;77(2):287-97

Food intake and food choice: the role of the endogenous opioid peptides in the marsupial Sminthopsis crassicaudata. Hope PJ, et al. **Brain Res** 1997 Aug 1;764(1-2):39-45

Psychophysical and psychohedonic functions of four common food flavours in elderly subjects. de Graaf C, et al. **Chem Senses** 1996 Jun;21(3):293-302

Food deprivation increases the rat's preference for a fatty flavor over a sweet taste. Lucas F, et al. **Chem Senses** 1996 Apr;21(2):169-79

Food selection by the domestic cat, an obligate carnivore. Bradshaw JW, et al. **Comp Biochem Physiol A Physiol** 1996 Jul;114(3):205-9

Taste perception in cirrhosis: its relationship to circulating micronutrients and food preferences. Madden AM, et al. **Hepatology** 1997 Jul;26(1):40-8

Role of food familiarity and taste quality in food preferences of individuals with Prader-Willi syndrome. Rankin KM, et al. **Int J Obes Relat Metab Disord** 1996 Aug;20(8):759-62

The effect of color on perceived flavor intensity and

acceptance of foods by young adults and elderly adults. Chan MM, et al. **J Am Diet Assoc** 1997 Jun;97(6):657–9

The utilization of multidimensional scaling to identify forage characteristics associated with preference in sheep. Buntinx SE, et al. **J Anim Sci** 1997 Jun;75(6):1641–50

The effects of physical form of feed, carbohydrate source, and inclusion of sodium bicarbonate on the diet selections of sheep. Cooper SD, et al. **J Anim Sci** 1996 Jun; 74(6):1240–51

Acquired aversions as the basis for varied diets of ruminants foraging on rangelands. Provenza FD. **J Anim Sci** 1996 Aug;74(8):2010–20 (167 ref.)

Preference of sheep for foods varying in flavors and nutrients. Provenza FD, et al. **J Anim Sci** 1996 Oct;74(10):2355–61

Preference for flavored wheat straw by lambs conditioned with intraruminal administrations of sodium propionate. Villalba JJ, et al. **J Anim Sci** 1996 Oct;74(10):2362–8

Food preference and acceptance of novel foods by lambs depend on the composition of the basal diet. Wang J, et al. **J Anim Sci** 1996 Oct;74(10):2349–54

Differential effects of baseline macronutrient preferences on macronutrient selection after galanin, NPY, and an overnight fast. Smith BK, et al. **Peptides** 1997;18(2):207–11

Ethanol preference, metabolism, blood pressure, and conditioned taste aversion in experimental cholestasis. Lane JR, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):755–66

Postingestive factors influencing operant sugar intake in pigs. Baldwin BA. **Physiol Behav** 1996 Jul;60(1):283–6

Effects of chorda tympani transection on long-term salt preference in hamsters. Barry MA, et al. **Physiol Behav** 1996 Aug;60(2):347–52

Caloric intake and weight gain of rats depends on endogenous fat preference. Cook CB, et al. **Physiol Behav** 1997 May; 61(5):743–8

Diurnal variation in the effect of chronic mild stress on sucrose intake and preference. D'Aquila PS, et al. **Physiol Behav** 1997 Aug;62(2):421–6

The role of gastric and postgastric sites in glucose-conditioned flavor preferences in rats. Drucker DB, et al. **Physiol Behav** 1997 Feb;61(2):351–8

Daylength and body mass affect diet self-selection by Siberian hamsters. Fine JB, et al. **Physiol Behav** 1996 Jun; 59(6):1039–50

Effect of central glucagon infusion on macronutrient selection in rats. Komenami N, et al. **Physiol Behav** 1996 Feb;59(2):383–8

Effects of a 2-day abstinence from smoking on dietary, cognitive, subjective, and physiologic parameters among younger and older female smokers. Kos J, et al. **Physiol Behav** 1997 May;61(5):671–8

Refeeding after prolonged fasting in rats: nycthemeral variations in dietary self-selection. Larue-Achagiotis C, et al. **Physiol Behav** 1996 Jun;59(6):1033–7

Hemodialysis increases the preference for salt in soup. Leshem M, et al. **Physiol Behav** 1997 Jan;61(1):65–9

The role of olfaction in oil preference in the chicken. Mabayo RT, et al. **Physiol Behav** 1996 Jun;59(6):1185–8

Relationships of consumer characteristics and food deprivation to food purchasing behavior. Mela DJ, et al. **Physiol Behav** 1996 Nov;60(5):1331–5

Modifications in dietary self-selection specifically attributable to voluntary wheel running and exercise training in the rat. Oudot F, et al. **Physiol Behav** 1996 Jun;59(6):1123–8

Abdominal vagotomy does not block carbohydrate-conditioned flavor preferences in rats. Sclafani A, et al. **Physiol Behav** 1996 Aug;60(2):447–53

Continuous intraoral saccharin infusions in high vs. low saccharin-consuming rats. Thiele TE, et al. **Physiol Behav** 1997 Jan;61(1):149–52

PSYCHOLOGY

Cue reactivity to food- and body-related stimuli in restrained and unrestrained eaters. Overduin J, et al. **Addict Behav** 1997 May-Jun;22(3):395–404

Food- and nonfood-related differential outcomes in equivalence learning by adults with Prader-Willi syndrome. Joseph B, et al. **Am J Ment Retard** 1997 Jan; 101(4):374–86

Mineral and phytochemical influences on foliage selection by the proboscis monkey (Nasalis larvatus). Yeager CP, et al. **Am J Primatol** 1997;41(2):117–28

Observational conditioning of food valence in humans. Baeyens F, et al. **Appetite** 1996 Dec;27(3):235–50

The effect of pre-exposure to food cues on the eating behavior of restrained and unrestrained eaters. Fedoroff IC, et al. **Appetite** 1997 Feb;28(1):33–47

Impact of definition on prevalence of food cravings in a random sample of young women. Gendall KA, et al. **Appetite** 1997 Feb;28(1):63–72

Eating sweet snacks: gender differences in attitudes and behaviour. Grogan SC, et al. **Appetite** 1997 Feb;28(1):19–31

Food and general neophobia and their relationship with self-reported food choice: familial resemblance in Swedish families with children of ages 7–17 years. Hursti UkK, et al. **Appetite** 1997 Aug;29(1):89–103

Similarities and differences in affective and cognitive origins of food likings and dislikes. Letarte A, et al. **Appetite** 1997 Apr;28(2):115–29

Increasing willingness to taste novel foods: effects of nutrition and taste information. McFarlane T, et al. **Appetite** 1997 Jun;28(3):227–38

"Try it; it's good and it's good for you": effects of taste and nutrition information on willingness to try novel foods. Martins Y, et al. **Appetite** 1997 Apr;28(2):89–102

Perceptions of starchy food dishes: application of the Repertory Grid Method. Monteleone E, et al. **Appetite** 1997 Jun;28(3):255–65

Temperament and food neophobia in children and their mothers. Pliner P, et al. **Appetite** 1997 Jun;28(3):239–54

Meal preferences amongst 9 to 15-year-old Ulster schoolchildren. Warwick J, et al. **Appetite** 1997 Feb; 28(1):86

Influence of relative fat content information on responses to three foods. Westcombe A, et al. **Appetite** 1997 Feb; 28(1):49–62

Independent effects of palatability and within-meal pauses on intake and appetite ratings in human volunteers. Yeomans MR, et al. **Appetite** 1997 Aug;29(1):61–76

Increased histidine preference during specific alteration of rhythm of environmental temperature stress in rats. Kondoh T, et al. **Behav Neurosci** 1996 Oct;110(5):1187–92

Palatability-induced hyperphagia increases hypothalamic Dynorphin peptide and mRNA levels. Welch CC, et al. **Brain Res** 1996 May 20;721(1–2):126–31

Psychophysical and psychohedonic functions of four common food flavours in elderly subjects. de Graaf C, et al. **Chem Senses** 1996 Jun;21(3):293–302

Effect of mood and food cues on body image in women with bulimia and controls. Carter FA, et al. **Int J Eat Disord** 1996 Jul;20(1):65–76

Patterns of food selection during binges in women with binge eating disorder. Cooke EA, et al. **Int J Eat Disord** 1997 Sep;22(2):187–93

Eating disorders in dementia. Cullen P, et al. **Int J Geriatr Psychiatry** 1997 May;12(5):559–62

Why do we like fat? Drewnowski A. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S58–62 (43 ref.)

Transfers of food from adults to infants in tufted capuchins (Cebus apella). Fragaszy DM, et al. **J Comp Psychol** 1997 Jun;111(2):194–200

Kinship and familiarity as factors affecting social transfer of food preferences in adult Mongolian gerbils (Meriones unguiculatus). Valsecchi P, et al. **J Comp Psychol** 1996 Sep; 110(3):243–51

Imitative learning of artificial fruit processing in children (Homo sapiens) and chimpanzees (Pan troglodytes). Whiten A, et al. **J Comp Psychol** 1996 Mar;110(1):3–14

Food neophobia in humans: effects of manipulated arousal and individual differences in sensation seeking. Pliner P, et al. **Physiol Behav** 1997 Feb;61(2):331–5

Is fructose sweeter than glucose for rats? Ramirez I. **Physiol Behav** 1996 Nov;60(5):1299–306

Stimulus specificity in flavor acceptance learning. Ramirez I. **Physiol Behav** 1996 Aug;60(2):595–610

Palatability and dietary restraint: effect on cephalic phase insulin release in women. Teff KL, et al. **Physiol Behav** 1996 Aug;60(2):567–73

FOOD PRESERVATION

see related
MAILLARD REACTION

Biopreservation by lactic acid bacteria. Stiles ME. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):331–45 (132 ref.)

Use of rRNA gene restriction patterns to evaluate lactic acid bacterium contamination of vacuum-packaged sliced cooked whole-meat product in a meat processing plant. Björkroth KJ, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):448–53

Recovery of a strain of Clostridium botulinum producing both neurotoxin A and neurotoxin B from canned macrobiotic food. Franciosa G, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1148–50

The effects of alpha-tocopherol addition on oxidative stability of whole milk powder. McCluskey S, et al. **Biochem Soc Trans** 1997 Feb;25(1):145S

Gastric carcinogenesis: 2-chloro-4-methylthiobutanoic acid, a novel mutagen in salted, pickled Sanma hiraki fish, or similarly treated methionine. Chen W, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):58–66

Mineral oil material in canned foods. Grob K, et al. **Food Addit Contam** 1997 Jan;14(1):83–8

Distribution and behavior of Listeria monocytogenes in three lots of naturally-contaminated vacuum-packed smoked salmon stored at 2 and 10 degrees C. Cortesi ML, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):209–14

Methods for preservation and extension of shelf life. Gould GW. **Int J Food Microbiol** 1996 Nov;33(1):51–64 (47 ref.)

Sodium nitrite and potassium nitrate in control of nonproteolytic Clostridium botulinum outgrowth and toxigenesis in vacuum-packed cold-smoked rainbow trout. Hyytiä E, et al. **Int J Food Microbiol** 1997 Jun 17; 37(1):63–72

The effect of glucose supplementation on the spoilage microflora and chemical composition of minced beef stored aerobically or under a modified atmosphere at 4 degrees C. Lambropoulou KA, et al. **Int J Food Microbiol** 1996 Jul;30(3):281–91

Composition and toxigenic potential of the mould population on dry-cured Iberian ham. Núñez F, et al. **Int J Food Microbiol** 1996 Sep;32(1–2):185–97

Biochemical changes occurring during growth and storage of two yam species. Trèche S, et al. **Int J Food Sci Nutr** 1996 Mar;47(2):93–102

A study of some important vitamins and antioxidants in a blackcurrant jam with low sugar content and without additives. Viberg U, et al. **Int J Food Sci Nutr** 1997 Jan; 48(1):57–66

Trouble with tuna: two cases of scombrotoxin poisoning. Stell IM. **J Accid Emerg Med** 1997 Mar;14(2):110–1

Effects of electrical stimulation and postmortem storage on changes in titin, nebulin, desmin, troponin-T, and muscle ultrastructure in Bos indicus crossbred cattle. Ho CY, et al. **J Anim Sci** 1997 Feb;75(2):366–76

Salmonella detection in dried milk products by motility enrichment on modified semisolid Rappaport-Vassiliadis medium: collaborative study. Bolderdijk RF, et al. **J AOAC Int** 1996 Mar-Apr;79(2):441–50

Effect of somatic cell count and stage of lactation on the quality and storage life of ultra high temperature milk. Auldist MJ, et al. **J Dairy Res** 1996 Aug;63(3):377–86

Lipid oxidation in chicken as affected by cooking and frozen storage. Abdel-Kader ZM. **Nahrung** 1996 Feb;40(1):21–4

Ingestion of herring leads to absorption of pristane in humans [letter] Sjögren B, et al. **Occup Environ Med** 1997 Jan; 54(1):66

The effects of nutrient fortification and varying storage conditions on host defense properties of human milk. Jocson MA, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):240–3

The effect of food and frozen storage on the nutrient composition of some African fishes. Omotosho JS, et al. **Rev Biol Trop** 1995 Apr-Dec;43(1–3):289–95

[Changes in pesticide residues during various stages of preserved food production] Fauquet JP, et al. **Aliment Vie** 1969;57(7–9):141–206 **(Fre)**

[Apropos of preservation indicators controlling time and temperature] Leroux JM, et al. **Ann Pharm Fr** 1996; 54(5):236–7 **(Fre)**

[Case report: tyrosine deposits] Stephan R, et al. **Schweiz Arch Tierheilkd** 1996;138(8):399–401 (Eng. Abstr.) **(Ger)**

[Fatty acid composition and cholesterol content in naturally canned jurel, sardine, salmon, and tuna] Romero N, et al. **Arch Latinoam Nutr** 1996 Mar;46(1):75–7 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Thermal processing of foods, a retrospective, Part II: On-line methods for ensuring commercial sterility. Ramesh MN, et al. **Adv Appl Microbiol** 1997;44:315–45 (60 ref.)

LEGISLATION & JURISPRUDENCE

Safe milk, tub baths, and relative risk. [commentary] Mauss IH. **Am J Ind Med** 1996 Mar;29(3):282

METHODS

Preservation of biological materials under desiccation. Aguilera JM, et al. **Crit Rev Food Sci Nutr** 1997 Apr; 37(3):287–309 (117 ref.)

Nonthermal pasteurization of liquid foods using high-intensity pulsed electric fields. Qin BL, et al. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):603–27 (50 ref.)

Heat transfer and lethality considerations in aseptic processing of liquid/particle mixtures: a review. Ramaswamy HS, et al. **Crit Rev Food Sci Nutr** 1997 Apr; 37(3):253–86 (163 ref.)

Review on tropical root and tuber crops. II. Physiological disorders in freshly stored roots and tubers. Ravi V, et al. **Crit Rev Food Sci Nutr** 1996 Oct;36(7):711–31 (170 ref.)

Review on tropical root and tuber crops. I. Storage methods and quality changes. Ravi V, et al. **Crit Rev Food Sci Nutr** 1996 Oct;36(7):661–709 (374 ref.)

Combination of preservation factors applied to minimal processing of foods. Tapia de Daza MS, et al. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):629–59 (133 ref.)

Assessment of a bacteriocin-producing Lactobacillus strain in the control of spoilage of a cereal-based African fermented food. Olasupo NA, et al. **Folia Microbiol (Praha)** 1997;42(1):31–4

The effect of electron beam irradiation, combined with acetic acid, on the survival and recovery of Escherichia coli and Lactobacillus curvatus. Fielding LM, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):259–65

Minimum growth temperatures of Hafnia alvei and other Enterobacteriaceae isolated from refrigerated meat determined with a temperature gradient incubator. Ridell J, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):287–92

The effect of preservation method on the neutral detergent soluble fraction of forages. Doane PH, et al. **J Anim Sci** 1997 Apr;75(4):1140–8

Application of antimicrobial-producing lactic acid bacteria to control pathogens in ready-to-use vegetables. Vescovo M, et al. **J Appl Bacteriol** 1996 Aug;81(2):113–9

Factors affecting storability of apples in Syria. Al-Bachir M. **Plant Foods Hum Nutr** 1995 Oct;48(3):259–67

Egg handling and storage. Brake J, et al. **Poult Sci** 1997 Jan; 76(1):144–51 (84 ref.)

Effects of post-mortem time before chilling and chilling temperatures on water-holding capacity and texture of turkey breast muscle. Lesiak MT, et al. **Poult Sci** 1997 Mar; 76(3):552–6

The effect of refrigerated and frozen storage on populations of mesophilic and coliform bacteria on fresh broiler chicken carcasses. Russell SM. **Poult Sci** 1995 Dec;74(12):2057–60

Effect of dietary vitamin E on the oxidative stability, flavor, color, and volatile profiles of refrigerated and frozen turkey breast meat. Sheldon BW, et al. **Poult Sci** 1997 Apr; 76(4):634–41

[Comparison of the quality of frozen raspberries depending on the use of various additives] Kmiecik W, et al. **Rocz Panstw Zakl Hig** 1996;47(4):401–10 (Eng. Abstr.) **(Pol)**

[Preservation and stability of corn tortillas at room temperature] Higuera-Ciapara I, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):122–7 (Eng. Abstr.) **(Spa)**

STANDARDS

Determination of ready-to-eat vegetable salad shelf-life. García-Gimeno RM, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):31–8

The relationship of broiler breast meat color and pH to shelf-life and odor development. Allen CD, et al. **Poult Sci** 1997 Jul;76(7):1042–6

Microbiological quality of cooked chicken breasts containing commercially available shelf-life extenders. Rozum JJ, et al. **Poult Sci** 1997 Jun;76(6):908–13

The effect of temperature mishandling at various times during storage on detection of temperature abuse of fresh broiler chicken carcasses. Russell SM, et al. **Poult Sci** 1996 Feb; 75(2):261–4

STATISTICS & NUMERICAL DATA

Thermal processing of foods, a retrospective, Part I: Uncertainties in thermal processing and statistical analysis. Ramesh MN, et al. **Adv Appl Microbiol** 1997;44:287–314 (90 ref.)

FOOD PRESERVATIVES

see related

ANTIOXIDANTS

Excretion of benzoic acid derivatives in urine of sheep given intraruminal infusions of 3-phenylpropionic and cyclohexanecarboxylic acids. Pagella JH, et al. **Br J Nutr** 1997 Apr;77(4):577–92

Prolongation of the keeping quality of Mozzarella cheese by treatment with sorbate. Aly ME. **Nahrung** 1996 Aug; 40(4):194–200

ADMINISTRATION & DOSAGE

Oral challenge with parabens in paraben-sensitive patients. Veien NK, et al. **Contact Dermatitis** 1996 Jun;34(6):433

Microbiological quality of cooked chicken breasts containing commercially available shelf-life extenders. Rozum JJ, et al. **Poult Sci** 1997 Jun;76(6):908–13

ADVERSE EFFECTS

Perioral contact urticaria from sodium benzoate in a toothpaste. Muñoz FJ, et al. **Contact Dermatitis** 1996 Jul; 35(1):51

[Clinico-immunological study of 16 cases of benzoate intolerance in children] Pétrus M, et al. **Allerg Immunol (Paris)** 1997 Feb;29(2):36–8 (Eng. Abstr.) **(Fre)**

[Effect of an oligo-antigen diet on the behavior of hyperkinetic children] Schulte-Körne G, et al. **Z Kinder Jugenpsychiatr** 1996 Sep;24(3):176–83 (Eng. Abstr.) **(Ger)**

ANALYSIS

Enzymic method for the spectrophotometric determination of benzoic acid in soy sauce and pickles. Hamano T, et al. **Analyst** 1997 Mar;122(3):259–62

Survey of baked goods for propionic acid and propionates. Scotter MJ, et al. **Food Addit Contam** 1996 Feb–Mar; 13(2):133–9

Improved method for quantification of the bacteriocin nisin. Wolf CE, et al. **J Appl Bacteriol** 1996 Apr;80(4):453–7

Investigation of a pulsed-laser thermo-optical absorbance detector for the determination of food preservatives separated by capillary electrophoresis. Waldron KC, et al. **J Chromatogr B Biomed Appl** 1996 Aug 9;683(1):47–54

Comparison of quantitative high performance thin layer chromatography and the high performance liquid chromatography of parabens. Thomassin M, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):831–8

[Determination of benzoic acid in nonalcoholic carbonated soft drinks using the HPLC method] Rodziewicz L, et al. **Rocz Panstw Zakl Hig** 1996;47(4):411–4 (Eng. Abstr.) **(Pol)**

ISOLATION & PURIFICATION

Concentration and recovery of the bacteriocin nisin from Lactococcus lactis subsp. lactis. Van't Hul JS, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):251–6

Adsorption of bacteriocins by ingestible silica compounds. Wan J, et al. **J Appl Bacteriol** 1996 Aug;81(2):167–73

PHARMACOLOGY

Applications of the bacteriocin, nisin. Delves-Broughton J, et al. **Antonie Van Leeuwenhoek** 1996 Feb;69(2):193–202 (67 ref.)

Effects of nisin and temperature on survival, growth, and enterotoxin production characteristics of psychrotrophic Bacillus cereus in beef gravy. Beuchat LR, et al. **Appl Environ Microbiol** 1997 May;63(5):1953–8

Effect of nitrite on blood pressure in anaesthetized and free-moving rats. Vleeming W, et al. **Food Chem Toxicol** 1997 Jun;35(6):615–9

Influence of modified atmosphere and preservatives on the growth of Zygosaccharomyces rouxii isolated from dried fruits. el Halouat A, et al. **Int J Food Microbiol** 1996 Dec; 33(2–3):219–29

Control of microbiological quality and shelf-life of catfish (Clarias gariepinus) by chemical preservatives and smoking. Efiuvwevwere BJ, et al. **J Appl Bacteriol** 1996 May; 80(5):465–70

Quantitative structure activity relationship for the effect of benzoic acids, cinnamic acids and benzaldehydes on Listeria monocytogenes. Ramos-Nino ME, et al. **J Appl Bacteriol** 1996 Mar;80(3):303–10

Spatial interactions between subsurface bacterial colonies in a model system: a territory model describing the inhibition of Listeria monocytogenes by a nisin-producing lactic acid bacterium. Thomas LV, et al. **Microbiology** 1997 Aug;143 (Pt 8):2575–82

Effect of some factors used to the chicken meat preservation and processing on the protease activity. Przysiezna E, et al. **Nahrung** 1996 Aug;40(4):200–5

Chloride current in toad skeletal muscle and its modification by the histidine-modifying reagent diethylpyrocarbonate. Bertrán GC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):685–8

Sodium benzoate differentially blocks circling induced by D-and L-dopa in the hemi-parkinsonian rat. Moses J, et al. **Neurosci Lett** 1996 Nov 8;218(3):145–8

POISONING

Faulty sausage production causing methaemoglobinaemia. Kennedy N, et al. **Arch Dis Child** 1997 Apr;76(4):367–8

STANDARDS

Action on preservatives in fresh pet food. **Aust Vet J** 1997 May;75(5):379

TOXICITY

Nitrite-induced adrenal effects in rats and the consequences for the no-observed-effect level. Til HP, et al. **Food Chem Toxicol** 1997 Mar–Apr;35(3–4):349–55

Selective suppression of in vitro T-dependent humoral immunity by synthetic food additive antioxidants. Kim HM, et al. **J Toxicol Sci** 1996 Feb;21(1):41–5

Cytotoxicity of food preservatives in cultured rat hepatocytes loaded with linolenic acid. Sugihara N, et al. **Toxicology** 1997 Jun 6;120(1):29–36

FOOD, PRESERVED see **FOOD PRESERVATION**

FOOD PROCESSING see **FOOD HANDLING**

FOOD-PROCESSING INDUSTRY

Whose data are they anyway? Food industry could be misusing data [letter; comment] Winkler JT. **BMJ** 1997 Mar 8;314(7082):750. Comment on: **BMJ** 1996 May 18;312(7041):1241–2.

Species-specific selection on soil fungal population after olive mill waste-water treatment. Tardioli S, et al. **Chemosphere** 1997 Jun;34(11):2329–36

Detection of snow-crab antigens by air sampling of a snow-crab production plant. Malo JL, et al. **Clin Exp Allergy** 1997 Jan;27(1):75–8

Respiratory disease among Nigerians working in a sugar industry. Tanimowo MO. **East Afr Med J** 1996 Aug; 73(8):556–9

Food biotechnology's challenge to cultural integrity and individual consent. Thompson PB. **Hastings Cent Rep** 1997 Jul–Aug;27(4):34–8 (5 ref.)

Pathways of Listeria monocytogenes contamination in the meat processing industry. Nesbakken T, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):161–71

Airborne levels of alpha-amylase allergens in bakeries. Houba R, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):286–92

The incidence and level of Listeria monocytogenes contamination of food sources at primary production and initial processing. Fenlon DR, et al. **J Appl Bacteriol** 1996 Dec;81(6):641–50

Applications of magnetic resonance imaging to food research. McCarthy MJ, et al. **Magn Reson Imaging** 1996; 14(7–8):799–802

Functional foods--shades of gray: an industry perspective. Richardson DP. **Nutr Rev** 1996 Nov;54(11 Pt 2):S174–85 (42 ref.)

Incidence, location and interrelationships between the sites of abscesses recorded in pigs at a bacon factory in Northern Ireland. Huey RJ. **Vet Rec** 1996 May 25;138(21):511–4

[Epicondylitis of the radial humerus] Mach J. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):801 **(Ger)**

[Occupational and lifestyle factors related to musculoskeletal and fatigue symptoms among middle-aged female workers in a frozen food processing factory] Mizoue T, et al. **Sangyo Eiseigaku Zasshi** 1996 Sep;38(5):223–9 (Eng. Abstr.) **(Jpn)**

[Use of additional sources of protein-containing raw materials in manufacturing of food products (review)] Kuznetsov VD, et al. **Gig Sanit** 1996 Sep–Oct;(5):10–5 (46 ref.) **(Rus)**

[Effects of industrial environment factors in milk-processing enterprises on the health status of workers] Dovzhanskii IS, et al. **Med Tr Prom Ekol** 1996;(7):43–6 **(Rus)**

[Hygienic evaluation of work conditions in the combined production of fodder using Biotrin protein additives] Rakhmatullin NR, et al. **Med Tr Prom Ekol** 1996;(11):36–8 **(Rus)**

[The sugar manufacturing complex in Russia] Golovkina EV, et al. **Vopr Pitan** 1997;(1):46–7 **(Rus)**

[Production and marketing of vegetable oil in the Russian Federation] Kostiuk G, et al. **Vopr Pitan** 1996;(2):44–7 **(Rus)**

[Ventilatory function and immunologic reactions in female workers processing dried fruits and teas] Zuškin E, et al. **Lijec Vjesn** 1996 May–Jun;118(5–6):113–7 (Eng. Abstr.) **(Scr)**

[Changes in the microbial picture during the production of poultry salami] Pipová M, et al. **Vet Med (Praha)** 1997 Mar; 42(3):81–5 (Eng. Abstr.) **(Slo)**

ECONOMICS

Influence of wholesale lamb marketing options and merchandising styles on retail yield and fabrication time. Lorenzen CL, et al. **J Anim Sci** 1997 Jan;75(1):1–6

HISTORY

The business of vitamins: nutrition science and the food industry in inter-war Britain. Horrocks SM. **Clio Med** 1995; 32:235–58

LEGISLATION & JURISPRUDENCE

Food safety: from plough to plate [editorial] Godlee F. **BMJ** 1997 Sep 13;315(7109):619–20

Health workers and the baby food industry. New developments in Nestlé court case in India [letter; comment] Jindal T. **BMJ** 1996 Nov 30;313(7069):1399. Comment on: **BMJ** 1996 Jun 22;312(7046):1556–7.

Infant feeding and the law. Sobti JC, et al. **J Indian Med Assoc** 1996 Mar;94(3):108–10

Movement on by-products ban as Britain sets out its proposals on BSE [news] **Vet Rec** 1996 Jun 8;138(23):554

METHODS

Influence of wholesale lamb marketing options and merchandising styles on retail yield and fabrication time. Lorenzen CL, et al. **J Anim Sci** 1997 Jan;75(1):1–6

Effects of blast chilling and postmortem calcium chloride injection on tenderness of pork longissimus muscle. McFarlane BJ, et al. **J Anim Sci** 1996 Aug;74(8):1842–5

The enhancement of the nutritive value of peas for broiler chickens: an evaluation of micronization and dehulling processes. Igbasan FA, et al. **Poult Sci** 1996 Oct; 75(10):1243–52

Time spent by turkeys in transit to processing plants. Warriss PD, et al. **Vet Rec** 1996 Jul 20;139(3):72–3

[Report from a training trip to Germany, Holland and Belgium. On June 11–24, 1995] Kuźmicz-Brodzińska Z, et al. **Rocz Panstw Zakl Hig** 1996;47(4):445–51 **(Pol)**

ORGANIZATION & ADMINISTRATION

[The "Nutritec Company", a joint-stock enterprise, at a new stage in the development of the child nutrition industry] Kruglik VI. **Vopr Pitan** 1996;(5):74–6 **(Rus)**

STANDARDS

Biosecurity in poultry production: where are we and where do we go? te Winkel GP. **Acta Vet Hung** 1997;45(3):361–72 (8 ref.)

Risk management and food safety. Report of a Joint FAO/WHO Consultation, Rome, Italy, 27 to 31 January 1997.United Nations. **FAO Food Nutr Pap** 1997;65:1–27

A food safety system ... from embryo to maturity [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 Jun 1; 210(11):1566

Incidence and sensory evaluation of injection-site lesions in beef top sirloin butts. George MH, et al. **J Anim Sci** 1996 Sep;74(9):2095–103

A processing plant survey of external lesions of American eels (Anguilla rostrata) from Lake Ontario and the St. Lawrence River, Canada. Dutil LT, et al. **Prev Vet Med** 1997 Jul;31(1–2):19–32

Biosecurity systems and animal health [letter] Blackwell M. **Vet Rec** 1997 Jun 14;140(24):634–5

Welfare and market forces [letter] Lewis W. **Vet Rec** 1996 Sep 14;139(11):267–8

Veterinary involvement in meat hygiene [letter] Longstreeth J, et al. **Vet Rec** 1996 Nov 23;139(21):528

Presentation of clean livestock for slaughter [letter] Mullen PA. **Vet Rec** 1997 Jun 14;140(24):634

Disposal of rendered specified offal [letter] Taylor KC. **Vet Rec** 1996 Sep 14;139(11):267

STATISTICS & NUMERICAL DATA

[What the figures say. A commentary on a given topic]

FOOD-PROCESSING INDUSTRY

Potapenko VV. **Vopr Pitan** 1996;(5):84–5 **(Rus)**

TRENDS

Safe poultry meat production in the next century. Mulder RW. **Acta Vet Hung** 1997;45(3):307–15 (9 ref.)

Biosecurity in poultry production: where are we and where do we go? te Winkel GP. **Acta Vet Hung** 1997;45(3):361–72 (8 ref.)

'Healthy' developments in the food industry. Korver O. **Cancer Lett** 1997 Mar 19;114(1–2):19–23 (4 ref.)

The hydrodyne: a new process to improve beef tenderness. Solomon MB, et al. **J Anim Sci** 1997 Jun;75(6):1534–7

[The priority directions for the scientific support of a federal targeted program in the development of a child nutrition industry] Lipatov NN. **Vopr Pitan** 1996;(5):18–22 **(Rus)**

FOOD SELECTION see **FOOD PREFERENCES**

FOOD SERVICE, HOSPITAL

Community health. A link in the food chain. Montague J. **Hosp Health Netw** 1996 Sep 20;70(18):38–9

The nitrate and nitrite contents in a whole day's hospital diet during the spring season. Borawska M, et al. **Rocz Akad Med Bialymst** 1996;41(2):202–9

[Nutrition in hospitals (see comments)] Kondrup J, et al. **Ugeskr Laeger** 1997 Jun 9;159(24):3755–9. Comment in: Ugeskr Laeger 1997 Jul 28;159(31):4771–2. **(Dan)**

[Nutrition in hospitals (letter; comment)] Skjoldborg H. **Ugeskr Laeger** 1997 Jul 28;159(31):4771–2. Comment on: Ugeskr Laeger 1997 Jun 9;159(24):3755–9. **(Dan)**

ECONOMICS

A computerized interactive menu selector system for hospitals. Jamison J, et al. **J Am Diet Assoc** 1996 Oct; 96(10):1046–7

HISTORY

'... but the patient remembers the food': a new diet, a new hospital in 1930s Spain. Salmon F. **Clio Med** 1995;32:259–87

MANPOWER

[Occurrence of Campylobacter spp among food handlers in hospital kitchens in urban areas of the southern region of Brazil] Tosin I, et al. **Rev Saude Publica** 1995 Dec; 29(6):472–7 (Eng. Abstr.) **(Por)**

ORGANIZATION & ADMINISTRATION

Analysis of the decision to select a conventional or cook–chill system for hospital foodservice. Nettles MF, et al. **J Am Diet Assoc** 1997 Jun;97(6):626–31

Dietetics and foodservice personnel are ready for team problem solving. Wolf KN, et al. **J Am Diet Assoc** 1997 Sep;97(9):997–1002

STANDARDS

An audit of meal provision in an elderly care hospital. Hankey CR, et al. **Int J Qual Health Care** 1996 Aug; 8(4):375–82

Clarifying problematic JCAHO standards: solutions for hospital practitioners. Inman–Felton AE, et al. **J Am Diet Assoc** 1996 Nov;96(11):1193–6

Taste, temperature, and presentation predict satisfaction with foodservices in a Canadian continuing–care hospital. O'hara PA, et al. **J Am Diet Assoc** 1997 Apr;97(4):401–5

The provision of food and catering services in hospital. Barrie D. **J Hosp Infect** 1996 May;33(1):13–33 (70 ref.)

Dispose of disposables? Redpath C, et al. **J Hosp Infect** 1997 Apr;35(4):313–7

The bacteriological quality of hospital–prepared infant feeds. Rowan NJ, et al. **J Hosp Infect** 1997 Apr;35(4):259–67

Who's doing what with quality? D'arcy S, et al. **J Qual Clin Pract** 1997 Mar;17(1):47–50

[Nutritional and dietary assessment of feeding at a hospital with its own kitchen services] Tosantos Boneta G, et al. **Nutr Hosp** 1996 May–Jun;11(3):200–3 (Eng. Abstr.) **(Spa)**

FOOD SERVICES

Measles vaccination levels of children enrolled in WIC during the 1991 measles epidemic in New York City. LeBaron CW, et al. **Am J Public Health** 1996 Nov; 86(11):1551–6

Infantile malnutrition redux? [editorial; comment] Finberg L. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):870. Comment on: Arch Pediatr Adolesc Med 1997 Sep;151(9):871–5.

Nutrition programs through public health centers in Korea. Moon HK. **Biomed Environ Sci** 1996 Sep;9(2–3):276–89

Food poisoning among clients of a meals on wheels service. Jakubovic MO, et al. **Commun Dis Rep CDR Rev** 1996 Dec 6;6(13):R186–8

Risk factors for outbreaks of infectious intestinal disease linked to domestic catering. Ryan MJ, et al. **Commun Dis Rep CDR Rev** 1996 Dec 6;6(13):R179–83

Food and nutrient intake outside the home of 629 French people of fifteen years and over. Le François P, et al. **Eur J Clin Nutr** 1996 Dec;50(12):826–31

Energy and macronutrient consumption of elementary school children served modified lower fat and sodium lunches or standard higher fat and sodium lunches. Whatley JE, et al. **J Am Coll Nutr** 1996 Dec;15(6):602–7

An innovative approach to teaching foodservice management: emphasis on community–based programs. Fraser AM, et al. **J Am Diet Assoc** 1996 Dec;96(12):1282–3

Twenty years of WIC: a review of some effects of the program. Owen AL, et al. **J Am Diet Assoc** 1997 Jul; 97(7):777–82 (30 ref.)

Scientific evidence + professional judgment + translation = consistent carbohydrate?[comment] Wheeler ML, et al. **J Am Diet Assoc** 1997 Jan;97(1):22. Comment on: J Am Diet Assoc 1997 Jan;97(1):43–51.

Refugee relief rations [letter] Boelaert M, et al. **Lancet** 1997 Jun 14;349(9067):1775

Nutrition and poverty in industrialized countries: report of roundtable discussion. Buttriss JL. **Proc Nutr Soc** 1997 Mar; 56(1A):101–3

Developments in the UK: work of the Low Income Project Team. Nelson M. **Proc Nutr Soc** 1997 Mar;56(1A):91–100 (13 ref.)

Cognitive and behavioural effects of a school breakfast. Richter LM, et al. **S Afr Med J** 1997 Jan;87(1 Suppl):93–100

Eating breakfast—does it make a difference? [editorial] Steyn N, et al. **S Afr Med J** 1997 Jan;87(1 Suppl):91–2

Outbreak of hepatitis A in a college traced to contaminated water reservoir in cafeteria. Poonawagul U, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):705–8

[Contribution of the school meal program—basic cycle—to the nutritional requirements of school children] da Silva MV. **Arch Latinoam Nutr** 1995 Jun;45(2):103–10 (Eng. Abstr.) **(Por)**

[Caloric and nutritive value of kindergarten meals in Zagreb from 1988 to 1993] Bošnir J, et al. **Lijec Vjesn** 1996 Oct; 118(10):229–34 (Eng. Abstr.) **(Scr)**

ECONOMICS

Pricing strategy to promote fruit and vegetable purchase in high school cafeterias. French SA, et al. **J Am Diet Assoc** 1997 Sep;97(9):1008–10

Comparison of waste composition in a continuing–care retirement community. Kim T, et al. **J Am Diet Assoc** 1997 Apr;97(4):396–400

Economic benefit of breast–feeding infants enrolled in WIC [see comments] Montgomery DL, et al. **J Am Diet Assoc** 1997 Apr;97(4):379–85. Comment in: J Am Diet Assoc 1997 Apr;97(4):385.

Profitability and acceptability of fat– and sodium–modified hot entrees in a worksite cafeteria. Perlmutter CA, et al. **J Am Diet Assoc** 1997 Apr;97(4):391–5

LEGISLATION & JURISPRUDENCE

Welfare reform law specifies changes and budget cuts for food stamp and child nutrition programs. Johnson B. **J Am Diet Assoc** 1996 Oct;96(10):999–1000

ORGANIZATION & ADMINISTRATION

Welfare reform and food insecurity: influence on children [see comments] Willis E, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):871–5 (23 ref.) . Comment in: Arch Pediatr Adolesc Med 1997 Sep;151(9):870.

From relief to development: food for work in Bangladesh. Hyder M. **Disasters** 1996 Mar;20(1):21–33

Food aid and nutritional programmes during the Rwandan emergency. Shoham J. **Disasters** 1996 Dec;20(4):338–52

Tray service generates more food waste in dining areas of a continuing–care retirement community. Hackes BL, et al. **J Am Diet Assoc** 1997 Aug;97(8):879–82; quiz 883–4

Assigned versus participative goal setting and response generalization: managing injury control among professional pizza deliverers. Ludwig TD, et al. **J Appl Psychol** 1997 Apr;82(2):253–61

Program characteristics of home–delivered meals programs for persons with HIV and AIDS. Balsam A, et al. **J Community Health** 1996 Feb;21(1):37–49

Raising food hygiene standards—could customer power and the new laws hold the key? Leach JC. **J R Soc Health** 1996 Dec;116(6):351–5 (36 ref.)

The effect of staffing on the quality of care at mealtime. Kayser–Jones J, et al. **Nurs Outlook** 1997 Mar–Apr; 45(2):64–72

STANDARDS

Assessment of a take home child supplementary feeding programme in a high density suburb of Mutare City, Zimbabwe. Bijlsma M, et al. **Cent Afr J Med** 1997 Jan; 43(1):16–20

Why aid agencies need better understanding of the communities they assist: the experience of food aid in Rwandan refugee camps. Pottier J. **Disasters** 1996 Dec; 20(4):324–37

Development needs of faculty in foodservice management. Parham ES, et al. **J Am Diet Assoc** 1997 Mar;97(3):262–5

Integrating Hazard Analysis and Critical Control Point (HACCP) and sanitation for verifiable food safety. Setiabuhdi M, et al. **J Am Diet Assoc** 1997 Aug; 97(8):889–91

Assessment of meal portion, food temperature, and select nutrient content of the Hawaii Meals on Wheels program. Shovic A, et al. **J Am Diet Assoc** 1997 May;97(5):530–2

Food safety training needs exist for staff and consumers in a variety of community–based homes for people with developmental disabilities. Walter A, et al. **J Am Diet Assoc** 1997 Jun;97(6):619–25

Enhancing taste, texture, appearance, and presentation of pureed food improved resident quality of life and weight status. Cassens D, et al. **Nutr Rev** 1996 Jan;54(1 Pt 2):S51–4

Remarks from the Honorable Russell D. Feingold, Wisconsin, the United States Senate, Washington, DC. Feingold RD. **Nutr Rev** 1996 Jan;54(1 Pt 2):S31–4

Remarks from the Honorable William Goodling, Pennsylvania 19th district, the United States House of Representatives, Washington, DC. Goodling W. **Nutr Rev** 1996 Jan;54(1 Pt 2):S55–6

Remarks from the Honorable Joseph P. Kennedy II, Massachusetts 8th district, the United States House of Representatives, Washington, DC. Kennedy JP 2d. **Nutr Rev** 1996 Jan;54(1 Pt 2):S57–8

Improving school breakfasts: effects of the CATCH Eat Smart Program on the nutrient content of school breakfasts. Dwyer JT, et al. **Prev Med** 1996 Jul–Aug;25(4):413–22

Changes in the nutrient content of school lunches: results from the CATCH Eat Smart Food service Intervention. Osganian SK, et al. **Prev Med** 1996 Jul–Aug;25(4):400–12

[Evaluation and control of the microbiological quality of hands in foodhandlers] Almeida RC, et al. **Rev Saude Publica** 1995 Aug;29(4):290–4 (Eng. Abstr.) **(Por)**

STATISTICS & NUMERICAL DATA

Does allowing the sale of wine in Quebec grocery stores increase consumption? Adrian M, et al. **J Stud Alcohol** 1996 Jul;57(4):434–48

FOOD, SUPPLEMENTED see **FOOD, FORTIFIED**

FOOD SUPPLY

A question of balance: nutrition, health and gastronomy. Coveney J, et al. **Appetite** 1997 Jun;28(3):267–77

The effect of retail store managers on aboriginal diet in remote communities. Lee A, et al. **Aust N Z J Public Health** 1996 Apr;20(2):212–4

Current food and nutrition situation in south Asian and south–east Asian countries. Gopalan C. **Biomed Environ Sci** 1996 Sep;9(2–3):102–16 (15 ref.)

Status, prospect and policy of food development in China. Jiang JP, et al. **Biomed Environ Sci** 1996 Sep;9(2–3):149–63

A global view of food supply, access to food and nutrition adequacy. Lupien JR. **Biomed Environ Sci** 1996 Sep; 9(2–3):93–101

Averting a world food shortage: tighten your belts for CAIRO II. King M, et al. **BMJ** 1996 Oct 19; 313(7063):995–7

Government proposes food safety adviser [news] Warden J. **BMJ** 1997 Feb 8;314(7078):395

The contemporary food supply of three northern Manitoba Cree communities. Campbell ML, et al. **Can J Public Health** 1997 Mar–Apr;88(2):105–8

Estimating the capacity of warehouses. Cosgrave J. **Disasters** 1997 Jun;21(2):155–65 (31 ref.)

Glycaemic responses after ingestion of some local foods by non–insulin dependent diabetic subjects. Ayuo PO, et al. **East Afr Med J** 1996 Dec;73(12):782–5

Comparison between a normal and a Cr–tolerant strain of Scenedesmus acutus as a food source to Daphnia magna. Gorbi G, et al. **Ecotoxicol Environ Saf** 1996 Nov; 35(2):109–11

World food summit [news] **Environ Health Perspect** 1997 Feb;105(2):170

Emerging foodborne pathogens: Escherichia coli O157:H7 as a model of entry of a new pathogen into the food supply of the developed world. Armstrong GL, et al. **Epidemiol Rev** 1996;18(1):29–51 (179 ref.)

The nutrient content of the Italian food supply 1961–1992. Zizza C. **Eur J Clin Nutr** 1997 Apr;51(4):259–65

Relationship of hunger and food insecurity to food availability and consumption. Kendall A, et al. **J Am Diet Assoc** 1996 Oct;96(10):1019–24; quiz 1025–6

The world's food supply and the role of food animal veterinarians [letter] Herrick JB. **J Am Vet Med Assoc** 1997 Mar 15;210(6):751–2

The entrainment of persistent tidal rhythmicity in a filter–feeding bivalve using cycles of food availability. Williams BG, et al. **J Biol Rhythms** 1997 Apr;12(2):173–81

Foraging by food deprived larvae of Neobellieria bullata (Diptera: Sarcophagidae). Christopherson C, et al. **J Forensic Sci** 1997 Jan;42(1):71–3

"Food for all": slogan or worthy goal? [editorial] **Lancet** 1996 Oct 26;348(9035): 1109

USA and shortage of food and medicine in Cuba [letter; comment] Garfield R. **Lancet** 1997 Feb 1;349(9048):363. Comment on: Lancet 1996 Nov 30;348(9040):1489–91.

Role of the USA in shortage of food and medicine in Cuba [see comments] Kirkpatrick AF. **Lancet** 1996 Nov 30; 348(9040):1489–91. Comment in: Lancet 1996 Nov 30;348(9040):1461. Comment in: Lancet 1997 Feb 1;349(9048):363.

USA and shortage of food and medicine in Cuba [letter; comment] Simhan I. **Lancet** 1997 Feb 1;349(9048):363.

Comment on: Lancet 1996 Nov 30;348(9040):1461. Comment on: Lancet 1996 Nov 30;348(9040):1489–91.

USA and shortage of food and medicine in Cuba [letter; comment] Van der Stuyft P, et al. **Lancet** 1997 Feb 1; 349(9048):363. Comment on: Lancet 1996 Nov 30;348(9040):1489–91.

Supply and demand: a framework for explaining variability in dietary intake and its impact on data. Joachim G. **Nutr Health** 1997;11(4):289–99 (26 ref.)

Composition and functional properties of unprocessed and locally processed seeds from three underutilized food sources in Nigeria. Giami SY, et al. **Plant Foods Hum Nutr** 1997;50(1):27–36

[Problems and outlook for production of land animals] Coleou J. **Bull Acad Natl Med** 1996 Nov;180(8):1915–30; discussion 1930–2 (11 ref.) (Eng. Abstr.) **(Fre)**

[Problems and outlook for animal production in the aquatic environment] Kaushik S. **Bull Acad Natl Med** 1996 Nov; 180(8):1933–41; discussion 1941–2 (26 ref.) (Eng. Abstr.) **(Fre)**

[Relationship between world food production and the environment] Rérat A. **Bull Acad Natl Med** 1996 Nov; 180(8):1893–9; discussion 1899–901 **(Fre)**

[Some examples of introductions and transfers of mollusks] Grizel H. **Rev Sci Tech** 1996 Jun;15(2):401–8 (11 ref.) (Eng. Abstr.) **(Fre)**

[Chemicals in agriculture and problems of ecologically clean and biologically full-value food products] Ladonin VF. **Vopr Pitan** 1996;(4):19–23 (Eng. Abstr.) **(Rus)**

ECONOMICS

Challenges for food animal veterinarians in food animal production in the 21st century. Humble JA. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1106–8

Food, hunger and the market economy [editorial] Kidson C. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):1–3

HISTORY

[Correlations between cribra orbitalia, archeometric findings on the skeleton and habitat conditions] Schutkowski H, et al. **Anthropol Anz** 1997 Jun;55(2):155–66 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Food for independence [editorial] McKee M, et al. **BMJ** 1997 Feb 15;314(7079):459–60

STANDARDS

Food safety regulation: reforming the Delaney Clause. Merrill RA. **Annu Rev Public Health** 1997;18:313–40 (70 ref.)

Setting and evaluating the energy content of emergency rations. Schofield EC, et al. **Disasters** 1996 Sep; 20(3):248–60

Street foods. Report of an FAO technical meeting. Calcutta, India. 6–9 November 1995. United Nations. **FAO Food Nutr Pap** 1997;63:1–76 **(Eng, Fre, Spa)**

Growing a healthy food system. Rebuilding connections between farmers and consumers [news] Hahn NI. **J Am Diet Assoc** 1997 Sep;97(9):949–50

Community food systems: working toward a sustainable future. Peters J. **J Am Diet Assoc** 1997 Sep;97(9):955–6 (10 ref.)

Questionnaire-based measures are valid for the identification of rural households with hunger and food insecurity. Frongillo EA Jr, et al. **J Nutr** 1997 May;127(5):699–705

Food safety: a commonly underestimated public health issue. Käferstein FK. **World Health Stat Q** 1997;50(1–2):3–4

[The provision of the pediatric population of Russia with high-quality products--a problem of national security] Sazhinov GIu. **Vopr Pitan** 1996;(5):3–7 **(Rus)**

STATISTICS & NUMERICAL DATA

Dietary trends: estimates from food supply and survey data. Dobson A, et al. **Eur J Clin Nutr** 1997 Mar;51(3):193–8

Food supply versus household survey data: nutrient consumption trends for Spain, 1958–1988. Rodríguez-Artalejo F, et al. **Eur J Epidemiol** 1996 Aug; 12(4):367–71

[Changes in lipid availability in Venezuela, 1970–1992] Abreu Olivo EA, et al. **Arch Latinoam Nutr** 1994 Dec;44(4):207–22 (Eng. Abstr.) **(Spa)**

FOOD TECHNOLOGY

Application of saponins in foods and cosmetics: saponins of Mohave yucca and Sapindus mukurossi. Tanaka O, et al. **Adv Exp Med Biol** 1996;405:1–11 (14 ref.)

Acceleration of cheese ripening. Fox PF, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):271–97 (187 ref.)

Product quality and food processing: how to quantify the healthiness of a product. van Boekel MA, et al. **Cancer Lett** 1997 Mar 19;114(1–2):65–9

Lessening dental erosive potential by product modification. Grenby TH. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 2)):221–8 (36 ref.)

Food fortification. Technology and quality control. FAO Technical Meeting. **FAO Food Nutr Pap** 1996;60:1–102

Food biotechnology's challenge to cultural integrity and individual consent. Thompson PB. **Hastings Cent Rep** 1997 Jul–Aug;27(4):34–8 (5 ref.)

Starch–gum interactions: nutritional and technological implications. Sudhakar V, et al. **Int J Food Sci Nutr** 1996 Mar;47(2):117–29 (90 ref.)

Effect of technological treatments on digestibility and allergenicity of meat-based baby foods. Restani P, et al. **J Am Coll Nutr** 1997 Aug;16(4):376–82

Replacing fat with food technology. A brief review of new fat replacement ingredients [news] **J Am Diet Assoc** 1997 Jan;97(1):15–6

Effect of fat replacement on sensory attributes of chocolate chip cookies. Charlton O, et al. **J Am Diet Assoc** 1996 Dec;96(12):1288–90

The world's food supply and the role of food animal veterinarians [letter] Herrick JB. **J Am Vet Med Assoc** 1997 Mar 15;210(6):751–2

Potentials of cold pasteurization for the safety of foods of animal origin. Mussman HC. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2057–8

Growth, carcass, and tenderness characteristics of virgin, spayed, and single-calf heifers. Field R, et al. **J Anim Sci** 1996 Sep;74(9):2178–86

Preference of sheep for foods varying in flavors and nutrients. Provenza FD, et al. **J Anim Sci** 1996 Oct;74(10):2355–61

Genetic influences on beef longissimus palatability in charolais- and limousin-sired steers and heifers. Wulf DM, et al. **J Anim Sci** 1996 Oct;74(10):2394–405

Effect of high pressure on the reduction of microbial populations in vegetables. Arroyo G, et al. **J Appl Microbiol** 1997 Jun;82(6):735–42

Mycobiota in Portuguese 'normal' and 'green' cork throughout the manufacturing process of stoppers. Danesh P, et al. **J Appl Microbiol** 1997 Jun;82(6):689–94

Dynamics of fluid/particulate mixtures in tube flow. McCarthy KL, et al. **Magn Reson Imaging** 1996; 14(7–8):995–7

Applications of magnetic resonance imaging to food research. McCarthy MJ, et al. **Magn Reson Imaging** 1996; 14(7–8):799–802

NMR applications in complex food systems. Yan ZY, et al. **Magn Reson Imaging** 1996;14(7–8):979–81

Consumer acceptance of biotechnology: an international perspective. Hoban TJ. **Nat Biotechnol** 1997 Mar; 15(3):232–4

Effect of sesame seed proteins supplementation on the nutritional, physical, chemical and sensory properties of wheat flour bread. El-Adawy TA. **Plant Foods Hum Nutr** 1995 Dec;48(4):311–26

Effects of debittering methods on the proximate composition, organoleptic and functional properties of sesame (Sesamum indicum L.) seed flour. Badifu GI, et al. **Plant Foods Hum Nutr** 1996 Feb;49(2):119–26

Biological and chemical evaluation of chick pea seed proteins as affected by germination, extraction and alpha-amylase treatment. Mansour EH. **Plant Foods Hum Nutr** 1996 Jun; 49(4):271–82

The cocoyam, Xanthosoma sagittifollium, as a potential raw material source for beer brewing. Onwuka ND, et al. **Plant Foods Hum Nutr** 1996 Jun;49(4):283–93

[International Journal of Food Research and Technology] **Z Lebensm Unters Forsch** 1996 Feb;202(2):88–190 **(Ger)**

[International Journal of Food Research and Technology] **Z Lebensm Unters Forsch** 1996 May;202(5):344–446 **(Ger)**

[Food research and technology] **Z Lebensm Unters Forsch** 1996 Aug;203(2):100–202 **(Ger)**

[International Journal of Food Research and Technology] **Z Lebensm Unters Forsch** 1996 Nov;203(5):395–498 **(Ger)**

[Advances in embryo transfer and its impact in the production of food for mankind] Pérez Pérez DF. **An R Acad Nac Med (Madr)** 1996;113(1):115–49; discussion 149–50 **(Spa)**

[International perspective of the role of the INTA in nutrition] Cordano A. **Arch Latinoam Nutr** 1994 Dec;44(4 Suppl 2):63S–66S **(Spa)**

[Does genetically altered food cause allergy and poisoning? High safety requirements could eliminate health hazards] Wilhelmson B. **Lakartidningen** 1997 Feb 19;94(8):612–7 **(Swe)**

HISTORY

The business of vitamins: nutrition science and the food industry in inter-war Britain. Horrocks SM. **Clio Med** 1995; 32:235–58

LEGISLATION & JURISPRUDENCE

European politics pass food regulations lacking meat [news] Johnson E. **Nat Biotechnol** 1997 Mar;15(3):210

METHODS

Production and application of tannin acyl hydrolase: state of the art. Lekha PK, et al. **Adv Appl Microbiol** 1997; 44:215–60 (150 ref.)

Microstructure of white and dark turkey meat batters as affected by pH. Barbut S. **Br Poult Sci** 1997 May; 38(2):175–82

Preservation of biological materials under desiccation. Aguilera JM, et al. **Crit Rev Food Sci Nutr** 1997 Apr; 37(3):287–309 (117 ref.)

Artifacts and contaminants in the analysis of food flavor. Etiévant PX. **Crit Rev Food Sci Nutr** 1996 Oct;36(7):733–45 (95 ref.)

Alkaline-fermented foods: a review with emphasis on pidan fermentation. Wang J, et al. **Crit Rev Microbiol** 1996; 22(2):101–38 (81 ref.)

Prediction of breeding values for tenderness of market animals from measurements on bulls. Barkhouse KL, et al. **J Anim Sci** 1996 Nov;74(11):2612–21

Evaluation of electronic technology to assess lamb carcass composition. Berg EP, et al. **J Anim Sci** 1997 Sep; 75(9):2433–44

Improving tenderness of normal and callipyge lambs with calcium chloride. Clare TL, et al. **J Anim Sci** 1997 Feb; 75(2):377–85

Use of chevon in the development of low-fat meat products. James NA, et al. **J Anim Sci** 1997 Feb;75(2):571–7

Predicting the yield and composition of mature cow carcasses. Johnson DD, et al. **J Anim Sci** 1997 Jul; 75(7):1831–6

Meat toughening does not occur when rigor shortening is prevented. Koohmaraie M, et al. **J Anim Sci** 1996 Dec; 74(12):2935–42

Skeletal alteration to improve beef longissimus muscle tenderness. Ludwig CJ, et al. **J Anim Sci** 1997 Sep; 75(9):2404–10

Incubation temperature effects on physical characteristics of normal, dark, firm and dry, and halothane-carrier pork longissimus. McCaw J, et al. **J Anim Sci** 1997 Jun; 75(6):1547–52

Calcium chloride injection and degree of doneness effects on the sensory characteristics of beef inside round roasts. Milligan SD, et al. **J Anim Sci** 1997 Mar;75(3):668–72

Effect of storage temperature and time on fiber content of fresh and ensiled alfalfa. Nelson ML, et al. **J Anim Sci** 1996 Jul;74(7):1689–93

Effects of ultrasound and convection cooking to different end point temperatures on cooking characteristics, shear force and sensory properties, composition, and microscopic morphology of beef longissimus and pectoralis muscles. Pohlman FW, et al. **J Anim Sci** 1997 Feb;75(2):386–401

Performance, carcass, and palatability traits for cull cows fed high-energy concentrate diets for 0, 14, 28, 42, or 56 days. Schnell TD, et al. **J Anim Sci** 1997 May; 75(5):1195–202

Repeatability of tenderness measurements in beef round muscles. Shackelford SD, et al. **J Anim Sci** 1997 Sep; 75(9):2411–6

Tenderness classification of beef: I. Evaluation of beef longissimus shear force at 1 or 2 days postmortem as a predictor of aged beef tenderness. Shackelford SD, et al. **J Anim Sci** 1997 Sep;75(9):2417–22

Effect of vitamin C concentration and co-injection with calcium chloride on beef retail display color. Wheeler TL, et al. **J Anim Sci** 1996 Aug;74(8):1846–53

Large-scale high-performance liquid chromatography of enzymes for food applications. Hamada JS. **J Chromatogr A** 1997 Jan 24;760(1):81–7 (48 ref.)

Composition and functional properties of cholesterol reduced egg yolk. Awad AC, et al. **Poult Sci** 1997 Apr;76(4):649–53

Effects of post-mortem time before chilling and chilling temperatures on water-holding capacity and texture of turkey breast muscle. Lesiak MT, et al. **Poult Sci** 1997 Mar; 76(3):552–6

Texture evaluations of cooked, diced broiler breast samples by sensory and mechanical methods. Lyon BG, et al. **Poult Sci** 1996 Jun;75(6):812–9

Tenderizing spent fowl meat with calcium chloride. 3. Biochemical characteristics of tenderized breast meat. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):543–7

Tenderizing spent fowl meat with calcium chloride. 1. Effects of delivery method and tumbling. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):534–7

Tenderizing spent fowl meat with calcium chloride. 2. The role of delayed application and ionic strength. Nurmahmudi, et al. **Poult Sci** 1997 Mar;76(3):538–42

Effect of background color, sample thickness, and illuminant on the measurement of broiler meat color. Sandusky CL, et al. **Poult Sci** 1996 Nov;75(11):1437–42

Effect of dietary vitamin E on the oxidative stability, flavor, color, and volatile profiles of refrigerated and frozen turkey breast meat. Sheldon BW, et al. **Poult Sci** 1997 Apr; 76(4):634–41

Species, muscle type, and formulation influence the residual concentrations of three endpoint temperature indicators in poultry products. Veeramuthu GJ, et al. **Poult Sci** 1997 Apr;76(4):642–8

High temperature processing effects on the properties of fowl meat gels. Voller-Reasonover L, et al. **Poult Sci** 1997 May; 76(5):774–9

Tenderizing spent fowl meat with calcium chloride. 4. Improved oxidative stability and the effects of additional aging. Woods KL, et al. **Poult Sci** 1997 Mar;76(3):548–51

Effect of calcium marination on biochemical and textural properties of peri-rigor chicken breast meat. Young LL, et al. **Poult Sci** 1997 Jan;76(1):197–201

[Report from a training trip to Germany, Holland and Belgium. On June 11–24, 1995] Kuźmicz-Brodzińska Z, et al. **Rocz Panstw Zakl Hig** 1996;47(4):445–51 **(Pol)**

[Technological innovation applicable to marine oils rich in

n-3 fatty acids to allow their nutritional and pharmacological use: a challenge for the present decade] Valenzuela A, et al. **Arch Latinoam Nutr** 1994 Dec; 44(4):223–31 (45 ref.) (Eng. Abstr.) **(Spa)**

STANDARDS

Influence of activity and dietary energy on broiler performance, carcase yield and sensory quality. Lei S, et al. **Br Poult Sci** 1997 May;38(2):183–9

Artifacts and contaminants in the analysis of food flavor. Etiévant PX. **Crit Rev Food Sci Nutr** 1996 Oct;36(7):733–45 (95 ref.)

Biotechnology and food safety. Joint FAO/WHO Consultation. United Nations. **FAO Food Nutr Pap** 1996; 61:1–27

The effect of color on perceived flavor intensity and acceptance of foods by young adults and elderly adults. Chan MM, et al. **J Am Diet Assoc** 1997 Jun;97(6):657–9

Consumer evaluation of beef of known categories of tenderness. Boleman SJ, et al. **J Anim Sci** 1997 Jun; 75(6):1521–4

Influence of realimentation of mature cows on maturity, color, collagen solubility, and sensory characteristics. Boleman SJ, et al. **J Anim Sci** 1996 Sep;74(9):2187–94

Tenderness variation among loin steaks from A and C maturity carcasses of heifers similar in chronological age. Field R, et al. **J Anim Sci** 1997 Mar;75(3):693–9

Comparison of USDA quality grade with tendertec for the assessment of beef palatability. George MH, et al. **J Anim Sci** 1997 Jun;75(6):1538–46

Incidence and sensory evaluation of injection-site lesions in beef top sirloin butts. George MH, et al. **J Anim Sci** 1996 Sep;74(9):2095–103

Slaughter plant location, USDA quality grade, external fat thickness, and aging time effects on sensory characteristics of beef loin strip steak. Miller MF, et al. **J Anim Sci** 1997 Mar;75(3):662–7

Genetic effects on beef tenderness in Bos indicus composite and Bos taurus cattle. O'Connor SF, et al. **J Anim Sci** 1997 Jul;75(7):1822–30

Comment on the paper "Improving tenderness of normal and callipyge lambs with calcium chloride" [letter] Rumsey TS. **J Anim Sci** 1997 Jul;75(7):1987–8

The hydrodyne: a new process to improve beef tenderness. Solomon MB, et al. **J Anim Sci** 1997 Jun;75(6):1534–7

A comparison of Warner-Bratzler shear force assessment within and among institutions. Wheeler TL, et al. **J Anim Sci** 1997 Sep;75(9):2423–32

Sampling, cooking, and coring effects on Warner-Bratzler shear force values in beef. Wheeler TL, et al. **J Anim Sci** 1996 Jul;74(7):1553–62

Using objective measures of muscle color to predict beef longissimus tenderness. Wulf DM, et al. **J Anim Sci** 1997 Mar;75(3):684–92

Breed differences in boar taint: relationship between tissue levels boar taint compounds and sensory analysis of taint. Xue J, et al. **J Anim Sci** 1996 Sep;74(9):2170–7

Enhancing taste, texture, appearance, and presentation of pureed food improved resident quality of life and weight status. Cassens D, et al. **Nutr Rev** 1996 Jan;54(1 Pt 2):S51–4

The relationship of broiler breast meat color and pH to shelf-life and odor development. Allen CD, et al. **Poult Sci** 1997 Jul;76(7):1042–6

Textural, color, and sensory properties of bologna containing various levels of washed chicken skin. Bonifer LJ, et al. **Poult Sci** 1996 Aug;75(8):1047–55

Effect of muscle opposition during rigor on development of broiler breast meat tenderness. Cason JA, et al. **Poult Sci** 1997 May;76(5):785–7

Muscle metabolism and meat quality of Pectoralis from turkeys treated with postmortem electrical stimulation. Owens CM, et al. **Poult Sci** 1997 Jul;76(7):1047–51

Palatability of sous vide processed chicken breast. Turner BE, et al. **Poult Sci** 1996 Aug;75(8):1056–63

Species, muscle type, and formulation influence the residual concentrations of three endpoint temperature indicators in poultry products. Veeramuthu GJ, et al. **Poult Sci** 1997 Apr;76(4):642–8

Effects of stunning duration on quality characteristics of early deboned chicken fillets. Young LL, et al. **Poult Sci** 1997 Jul;76(7):1052–5

[Learning to control the meat] Krol B. **Tijdschr Diergeneeskd** 1996 Oct 15;121(20):586–90 **(Dut)**

TRENDS

Development of further processed poultry products [letter] Essary EO. **Poult Sci** 1997 May;76(5):788

[Transgenic foods—advantages and risks] Mannhalter C. **Wien Klin Wochenschr** 1997 Jan 31;109(2):33–9 (20 ref.) **(Ger)**

[Agribusiness and the consumer market: a continuation of crisis trends] Rubval'er DA. **Vopr Pitan** 1996;(1):43–8 **(Rus)**

[New technologies in the manufacture of prospective products for child nutrition] Sazhinov GIu, et al. **Vopr Pitan** 1996;(5):41–4 **(Rus)**

FOOT

Selective neurotomies for relief of spasticity focalized to the foot and to the knee flexors. Results in a series of 58 patients. Abdennebi B, et al. **Acta Neurochir (Wien)** 1996; 138(8):917–20

Using local anesthetics to expel foreign objects in the foot [letter] Ahearn MA. **Am Fam Physician** 1997 Mar; 55(4):1073

Dermatoscopic and videomicroscopic features of melanocytic plantar nevi. Akasu R, et al. **Am J Dermatopathol** 1996 Feb;18(1):10–8

Lesions of the bones of the hands and feet. Ostrowski ML, et al. **Am J Surg Pathol** 1997 Jun;21(6):676–90

Relative foot size and shape to general body size in Javanese, Filipinas and Japanese with special reference to habitual footwear types. Ashizawa K, et al. **Ann Hum Biol** 1997 Mar-Apr;24(2):117–29

Surgical management of primary cutaneous melanomas of the hands and feet. Tseng JF, et al. **Ann Surg** 1997 May; 225(5):544–50; discussion 550–3

Shoehorn-type ankle-foot orthoses: prediction of flexibility. Nagaya M. **Arch Phys Med Rehabil** 1997 Jan;78(1):82–4

The painful foot [letter] Elwell-Sutton R. **Aust Fam Physician** 1996 Oct;25(10):1645

Chondrosarcoma of small bones of the hands and feet. Ogose A, et al. **Cancer** 1997 Jul 1;80(1):50–9

Posterior tibial tendon dysfunction in the athlete. Ross JA. **Clin Podiatr Med Surg** 1997 Jul;14(3):479–88 (21 ref.)

Multiple acral syringomata with uniform involvement of the hands and feet. Garcia C, et al. **Cutis** 1997 Apr;59(4):213–4, 216

Dermatofibrosarcoma protuberans of the sole. Mizushima J, et al. **Dermatology** 1996;192(3):280–2 (11 ref.)

The role of dynamic plantar pressures in diabetic foot ulcers. Stess RM, et al. **Diabetes Care** 1997 May;20(5):855–8

Action of the peroneus longus tendon on the first metatarsal against metatarsus primus varus force. Bohne WH, et al. **Foot Ankle Int** 1997 Aug;18(8):510–2

Aneurysmal bone cyst and giant cell tumor of the foot. Casadei R, et al. **Foot Ankle Int** 1996 Aug;17(8):487–95 (58 ref.)

Nonoperative management of posterior tibial tendon dysfunction [see comments] Chao W, et al. **Foot Ankle Int** 1996 Dec;17(12):736–41. Comment in: Foot Ankle Int 1997 Jul;18(7):457–8.

A further modification to the McBride procedure for hallux valgus using the Acufex tag system to reattach the adductor hallucis. Harris NJ, et al. **Foot Ankle Int** 1997 Jan; 18(1):57–8

Analysis of clinical grading scales for the foot and ankle. Kitaoka HB, et al. **Foot Ankle Int** 1997 Jul;18(7):443–6

Material selection for foot orthoses. Marzano R. **Foot Ankle Int** 1997 Jul;18(7):455

Functional bracing with a half-cast. Porter DA, et al. **Foot Ankle Int** 1996 Oct;17(10):644–5

Foot and ankle research priority: report from the Research Council of the American Orthopaedic Foot and Ankle Society. Saltzman CL, et al. **Foot Ankle Int** 1997 Jul; 18(7):447–8

Intermittent pneumatic pedal compression and edema resolution after acute ankle fracture: a prospective, randomized study. Thordarson DB, et al. **Foot Ankle Int** 1997 Jun;18(6):347–50

Estimation of stature from stride length while walking fast. Jasuja OP, et al. **Forensic Sci Int** 1997 May 5;86(3):181–6

Brief communication: bilateral footedness and task complexity. Hart S, et al. **Int J Neurosci** 1996 Nov; 88(1-2):141–6

Angioleiomyoma of the lower extremity. Hanft JR, et al. **J Am Podiatr Med Assoc** 1997 Aug;87(8):388–91

Foot pain and disability in older persons. Pilot study in assessment and education. Helfand AE, et al. **J Am Podiatr Med Assoc** 1996 Feb;86(2):93–8

Piriformis syndrome mimics sural nerve entrapment [letter] Murphy BP. **J Am Podiatr Med Assoc** 1997 Apr;87(4):183–4

Effect of patient position on the consistency of placing the rearfoot at subtalar neutral. Pierrynowski MR, et al. **J Am Podiatr Med Assoc** 1997 Sep;87(9):399–406

Proficiency of foot care specialists to place the rearfoot at subtalar neutral. Pierrynowski MR, et al. **J Am Podiatr Med Assoc** 1996 May;86(5):217–23

Rupture of the posterior tibial tendon. Evaluation of injury of the spring ligament and clinical assessment of tendon transfer and ligament repair. Gazdag AR, et al. **J Bone Joint Surg Am** 1997 May;79(5):675–81

Atypical melanosis of the foot. Nogita T. **J Dermatol** 1996 Nov;23(11):825–7

Fibrosarcoma of the foot: a case presentation and review of the literature. Blume PA, et al. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):51–4 (17 ref.)

Longitudinal peroneal tendon tears. Saxena A, et al. **J Foot Ankle Surg** 1997 May-Jun;36(3):173–9; discussion 255

A simplified technique for determining foot progression angle in children 4 to 16 years of age. Lösel S, et al. **J Pediatr Orthop** 1996 Sep-Oct;16(5):570–4

Ankle-foot orthoses for preambulatory children with spastic diplegia. Wilson H, et al. **J Pediatr Orthop** 1997 May-Jun; 17(3):370–6

Instantaneous centers of rotation in dorsi/plantar flexion movements of posterior-type plastic ankle-foot orthoses. Sumiya T, et al. **J Rehabil Res Dev** 1997 Jul;34(3):279–85

Fact and fallacy in clinical and electrophysiological studies of anomalous innervation of the intrinsic foot muscles [letter; comment] Amoiridis G, et al. **Muscle Nerve** 1996 Sep;19(9):1227–9. Comment on: Muscle Nerve 1994 May;17(5):560–1. Comment on: Muscle Nerve 1995 Aug;18(8):926–7.

Limited fiber type grouping in self-reinnervation cat tibialis anterior muscles. Unguez GA, et al. **Muscle Nerve** 1996 Oct;19(10):1320–7

Autosomal dominant hyaline body myopathy presenting as scapuloperoneal syndrome: clinical features and muscle pathology. Masuzugawa S, et al. **Neurology** 1997 Jan; 48(1):253–7

Occupational disorders of the foot and ankle. Trepman E, et al. **Orthop Clin North Am** 1996 Oct;27(4):815–29 (37 ref.)

Extraskeletal chondroma of the foot. O'Malley MJ, et al. **Orthopedics** 1996 Mar;19(3):256–8

Antinociceptive effects of dynorphin peptides in a model of inflammatory pain. Beyer A, et al. **Pain** 1997 Apr; 70(2-3):141–7

Progressive tactile hypersensitivity: an inflammation-induced incremental increase in the excitability of the spinal cord [see comments] Ma QP, et al. **Pain** 1996 Sep;67(1):97–106 . Comment in: Pain 1996 Sep;67(1):1–2.

[Rotational deformities of the lower limbs in children] Lokiec F, et al. **Harefuah** 1996 Jun 2;130(11):770–4 (31 ref.) **(Heb)**

ABNORMALITIES see FOOT DEFORMITIES, CONGENITAL

ANATOMY & HISTOLOGY

Distribution of muscle spindles in the extensor digitorum and hallucis brevis muscles of the macaque as determined by plastination. Matsumura A, et al. **Acta Anat (Basel)** 1997; 158(1):59–67

Nomenclature for imaging planes of the feet [letter; comment] Herring C. **AJR Am J Roentgenol** 1997 Jan;168(1):277–8 . Comment on: AJR Am J Roentgenol 1996 May;166(5):1079–84.

Carolyn's feet. Resta RG. **Am J Med Genet** 1997 Oct 3; 72(1):1–2

New pedal remains of Megaladapis and their functional significance. Wunderlich RE, et al. **Am J Phys Anthropol** 1996 May;100(1):115–39 (62 ref.)

Postmortem evaluation of homotypic variation in shoe characteristics of 201 thoroughbred racehorses. Kane AJ, et al. **Am J Vet Res** 1996 Aug;57(8):1141–6

Insertion of musculus tibialis posterior into musculus peroneus (fibularis) longus. Lohrmann S, et al. **Anat Anz** 1997 Apr;179(2):161–3

Sectional anatomy of connective tissue structures in the hindfoot of the newborn child and the adult. Fritsch H. **Anat Rec** 1996 Sep;246(1):147–54

Quantitative analysis of the intrinsic muscles of the foot. Kura H, et al. **Anat Rec** 1997 Sep;249(1):143–51

A comparative study of foot morphology between Filipino and Japanese women, with reference to the significance of a deformity like hallux valgus as a normal variation. Kusumoto A, et al. **Ann Hum Biol** 1996 Sep-Oct; 23(5):373–85

An examination of the relationship between foot length, foot breath, ball girth, height and weight of Turkish university students aged between 17 and 25. Anil A, et al. **Anthropol Anz** 1997 Mar;55(1):79–87

Variations in foot breadth: effect on aspects of postural control during one-leg stance. Hoogvliet P, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):284–9

Anatomic considerations for safe placement of calcaneal pins. Mekhail AO, et al. **Clin Orthop** 1996 Nov;(332):254–9

Relationship between ossification of the cartilages of the foot and conformation and radiographic measurements of the front feet in Finnhorses. Ruohoniemi M, et al. **Equine Vet J** 1997 Jan;29(1):44–8

Automatic calculation of the medial axis of foot outline and its flexion angles. Mochimaru M, et al. **Ergonomics** 1997 Apr;40(4):450–64

The plantar aponeurosis. Hedrick MR. **Foot Ankle Int** 1996 Oct;17(10):646–9 (18 ref.)

Endoscopic plantar fascia release: a cross-sectional anatomic study. Reeve F, et al. **Foot Ankle Int** 1997 Jul;18(7):398–401

Study of ten anatomical variants of the foot and ankle. Chaney DM, et al. **J Am Podiatr Med Assoc** 1996 Nov; 86(11):532–7

Flexor digitorum accessorius longus muscle. VanCourt RB, et al. **J Am Podiatr Med Assoc** 1996 Nov;86(11):559–60 (5 ref.)

The relationship of static foot structure to dynamic foot function. Cavanagh PR, et al. **J Biomech** 1997 Mar; 30(3):243–50

Attribution of foot bones to sex and population groups. Smith SL. **J Forensic Sci** 1997 Mar;42(2):186–95

A low-cost method to analyse footprint patterns. Klapdor K, et al. **J Neurosci Methods** 1997 Jul 18;75(1):49–54

A comparison of trial shoe and shell shoe fitting techniques. Chen RC, et al. **Prosthet Orthot Int** 1995 Dec;19(3):181–7

MR imaging of the ankle and foot. Erickson SJ, et al. **Radiol Clin North Am** 1997 Jan;35(1):163–92 (78 ref.)

Is shoe size a reliable obstetric predictor of cephalopelvic disproportion? [letter] Louw GJ, et al. **S Afr Med J** 1996 Sep;86(9 Suppl):1206

Anthropometric measures as a predictor of cephalopelvic disproportion. Burgess HA. **Trop Doct** 1997 Jul;27(3):135–8

[Reliability of the evaluation of the active sweat gland density on the dorsum of the foot using the silastic impression mold

technique] Imamura S, et al.
Sangyo Ika Daigaku Zasshi 1996 Mar 1;18(1):1–5 (Eng. Abstr.) **(Jpn)**

BLOOD SUPPLY

Peripheral gangrene in African children: a clinical report of twelve cases. Noyez JF, et al. **Acta Orthop Belg** 1996 Dec; 62(4):207–11

Dynamic properties of the aorta and of the foot microcirculation in adolescents with diabetes mellitus. Hu J, et al. **Acta Paediatr** 1997 Jun;86(6):620–5

Heterogeneous blood flow response in the foot on dependency, assessed by laser Doppler perfusion imaging. Golster H, et al. **Acta Physiol Scand** 1997 Feb;159(2):101–6

Cutaneous microvascular flow in the foot during simulated variable gravities. Chang DS, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R961–6

Fifteen years of experience in treating 2177 episodes of foot and leg lesions with the circulator boot. Results of treatments with the circulator boot. Dillon RS.
Angiology 1997 May;48(5 Pt 2):S17–34

Effect of carbon dioxide–enriched water and fresh water on the cutaneous microcirculation and oxygen tension in the skin of the foot. Hartmann BR, et al. **Angiology** 1997 Apr; 48(4):337–43

Anatomic study of the dorsalis pedis–first dorsal metatarsal artery. Lee JH, et al. **Ann Plast Surg** 1997 Jan;38(1):50–5

Tibial nerve damage during subfascial endoscopic perforator vein surgery. Whiteley MS, et al. **Br J Surg** 1997 Apr; 84(4):512

Thrombosed vein. A cause of a painful nodule of the sole. Lemont H. **Clin Podiatr Med Surg** 1996 Jan;13(1):85–9

Skin microcirculation of the foot in diabetic neuropathy. Netten PM, et al. **Clin Sci (Colch)** 1996 Nov;91(5):559–65

Adjunctive systemic hyperbaric oxygen therapy in treatment of severe prevalently ischemic diabetic foot ulcer. A randomized study. Faglia E, et al. **Diabetes Care** 1996 Dec; 19(12):1338–43

Value of duplex scanning in evaluation of crural and foot arteries in limbs with severe lower limb ischaemia—a prospective comparison with angiography. Karacagil S, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):300–3

Heterogeneity of capillary density of skin over the dorsum of the foot and toes of healthy subjects. Lamah M, et al. **Int J Microcirc Clin Exp** 1996 Sep–Oct;16(5):271–6

Repeatability of intravital capillaroscopic measurement of capillary density. Lamah M, et al.
Int J Microcirc Clin Exp 1996 Jan–Feb;16(1):23–9

Plantar thrombotic nodules with marked neovascularization in diabetes: a symptom which has been overlooked? Akimoto S, et al. **J Dermatol** 1997 Jun;24(6):405–9

Bilateral rheumatoid nodule development on the distal region of the soles; poor blood circulation and local pressure as possible causes [letter] Horiuchi Y, et al. **J Dermatol** 1997 Apr;24(4):273–4

Foot ulcer due to arteriovenous malformation: report of a case. Lee SG, et al. **J Dermatol** 1997 Apr;24(4):255–7

Bilateral forefoot ischemia as a premonitory symptom of mixed cryoglobulinemia. Griffiths TA, et al.
J Foot Ankle Surg 1996 May–Jun;35(3):213–7

Dorsalis pedis artery: variations and clinical significance. Ali MW, et al. **J Indian Med Assoc** 1996 Nov;94(11):417–8

Ergotamine induced gangrene. Mansoor T, et al.
J Indian Med Assoc 1996 Apr;94(4):163

Pedal arterial imaging. Alson MD, et al.
J Vasc Interv Radiol 1997 Jan–Feb;8(1 Pt 1):9–18 (56 ref.)

Venous outflow of the leg: anatomy and physiologic mechanism of the plantar venous plexus. White JV, et al. **J Vasc Surg** 1996 Nov;24(5):819–24

Laser Doppler flux characteristics at the skin of the dorsum of the foot in young and in elderly healthy human subjects. Van den Brande P, et al. **Microvasc Res** 1997 Mar; 53(2):156–62

Acute effects of thromboxane dual blocker (KDI-792) on different portions of lower limb blood flow—a study using Doppler ultrasonography and laser Doppler flowmetry in type 2 diabetic patients. Sone H, et al. **Prostaglandins** 1997 Jun;53(6):395–409

[Sympathetic reflex dystrophy in circumscribed stenosis of the abdominal aorta. Case report and discussion of pathophysiologic principles] Haarmeier T, et al.
Nervenarzt 1997 Feb;68(2):147–9 (Eng. Abstr.) **(Ger)**

[Significance of arterial anastomoses of the distal calf and proximal foot for compensation of peripheral arterial occlusive disease] Schwarzenbach BP, et al. **Vasa** 1996; 25(4):331–6 (Eng. Abstr.) **(Ger)**

[Arterial blood flow in congenital idiopathic clubfoot] Vispo Seara JL, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec; 134(6):533–6 (Eng. Abstr.) **(Ger)**

[Microcirculatory evaluation of the early diabetic foot syndrome using laser doppler] Walewski J, et al.
Pol Merkuriusz Lek 1997 Jan;2(7):18–20 (Eng. Abstr.) **(Pol)**

[Patterns in the spread of the vertical blood reflux in the musculo-venous "pump" of the foot in varicose disease] Sukovatykh BS, et al. **Vestn Khir Im I I Grek** 1995; 154(4–6):34–7 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Fetal and postnatal development of palmar, plantar, and digital pads, and flexion creases of the rat (Rattus norvegicus). Kimura S, et al. **J Morphol** 1996 May; 228(2):179–87

BMP expression in duck interdigital webbing: a reanalysis [letter] Laufer E, et al. **Science** 1997 Oct 10;278(5336):305

GROWTH & DEVELOPMENT

Change of foot size with weightbearing. A study of 2829 children 3 to 18 years of age. Cheng JC, et al.
Clin Orthop 1997 Sep;(342):123–31

Footwear for children. Staheli LT. **Instr Course Lect** 1994; 43:193–7 (50 ref.)

INJURIES see FOOT INJURIES

INNERVATION

Spinal cholinergic and monoamine receptors mediate the antinociceptive effect of morphine microinjected in the periaqueductal gray on the rat tail, but not the feet. Fang F, et al. **Brain Res** 1996 May 25;722(1–2):95–108

The communicating branch of the lateral plantar nerve: a descriptive anatomic study. Frank PW, et al. **Clin Anat** 1996;9(4):237–43

Variable innervation of the intrinsic foot muscles. An electrophysiological study. Linden D, et al.
Electromyogr Clin Neurophysiol 1996 Oct–Nov; 36(7):399–403

Vascular supply of nerves in the tarsal tunnel. Flanigan DC, et al. **Foot Ankle Int** 1997 May;18(5):288–92

Nerve injury and repair in the foot and ankle. Santi MD, et al. **Foot Ankle Int** 1996 Jul;17(7):425–39 (108 ref.)

Pressure palsy as the initial presentation in a case of late–onset Charcot–Marie–Tooth disease type 1A. Abe Y, et al.
Intern Med 1997 Jul;36(7):501–3

Tibialis posterior transfer for the correction of foot drop in leprosy. Long-term outcome. Soares D.
J Bone Joint Surg Br 1996 Jan;78(1):61–2

Evidence suggesting a transcortical pathway from cutaneous foot afferents to tibialis anterior motoneurones in man. Nielsen J, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):473–84

Surgery of Morton's neuroma: dorsal or plantar approach? Nashi M, et al. **J R Coll Surg Edinb** 1997 Feb;42(1):36–7

Neuropathy in non–freezing cold injury (trench foot). Irwin MS, et al. **J R Soc Med** 1997 Aug;90(8):433–8

Foot dystonia and lumbar canal stenosis. Blunt SB, et al.
Mov Disord 1996 Nov;11(6):723–5

Painful calf, moving foot [letter] Mosek A, et al.
Mov Disord 1996 May;11(3):339–40

In vivo intracellular recording and labeling of neurons in the forepaw barrel subfield (FBS) of rat somatosensory cortex: possible physiological and morphological substrates for reorganization. Li CX, et al. **Neuroreport** 1996 Oct 2; 7(14):2261–72

Relationship between representation of hindpaw and hindpaw barrel subfield (HBS) in layer IV of rat somatosensory cortex. Pearson PP, et al. **Neuroreport** 1996 Oct 2;7(14):2317–23

Post–movement synchronization of beta rhythms in the EEG over the cortical foot area in man. Neuper C, et al.
Neurosci Lett 1996 Sep 20;216(1):17–20

The superficial peroneal nerve at the foot. Organisation, surgical applications. Canovas F, et al.
Surg Radiol Anat 1996;18(3):241–4

The effect of the high palmar nerve block and the ulnar nerve block on lameness provoked by a collagenase–induced tendonitis of the lateral branch of the suspensory ligament. Keg PR, et al. **Vet Q** 1996;18 Suppl 2:S103–5

[Foot drop. A differential diagnosis problem] Dubuisson A, et al. **Rev Med Liege** 1997 May;52(5):355–62 **(Fre)**

[Compression syndrome of the superficial fibular nerve. Case report] Piza–Katzer H, et al.
Handchir Mikrochir Plast Chir 1997 May;29(3):124–6 (Eng. Abstr.) **(Ger)**

[Acute foot drop paralysis in multiple sclerosis. Peroneal nerve compression as differential diagnosis of acute onset] Albrecht H, et al. **Nervenarzt** 1996 Feb;67(2):163–9 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Acute group G streptococcal myositis associated with streptococcal toxic shock syndrome: case report and review. Wagner JG, et al. **Clin Infect Dis** 1996 Nov; 23(5):1159–61

PATHOLOGY

Suppressive effects of a herbal formula, TBL–1, on type II collagen–induced arthritis in DBA/1J mice. Li SH, et al.
Clin Exp Pharmacol Physiol 1996 Mar;23(3):236–40

MR findings of macrodystrophia lipomatosa. Soler R, et al.
Clin Imaging 1997 Mar–Apr;21(2):135–7

Selected morphological features of overweighed children's foot as overload adaptation indices. Jaworski JM, et al.
Folia Morphol (Warsz) 1996;55(4):290–2

Geometric data of hallux valgus feet. Lamur KS, et al.
Foot Ankle Int 1996 Sep;17(9):548–54

Accessory ossification centres associated with osteochondral fragments in the extremities of horses. Grøndahl AM, et al. **J Comp Pathol** 1996 May;114(4):385–98

Effect of foot and ankle MR imaging on clinical decision making [see comments] Anzilotti K Jr, et al. **Radiology** 1996 Nov;201(2):515–7. Comment in: Radiology 1997 May;203(2):578–9.

Can running cause the appearance of marrow edema on MR images of the foot and ankle? Lazzarini KM, et al.
Radiology 1997 Feb;202(2):540–2

PHYSIOLOGY

Various strategies of forelimb movement during contact placing reactions elicited by tactile stimulation of the different aspects of a cat's paw. Czarkowska–Bauch J.
Acta Neurobiol Exp (Warsz) 1996;56(4):907–18

Modern gait analysis: a tool to improve shoes, insoles and the understanding of foot function. Morlock MM, et al.
Acta Orthop Belg 1996;62 Suppl 1:11–6

Alterations in the distal extension of the musculus peroneus brevis with foot movement. Radenaker J, et al.
AJR Am J Roentgenol 1997 Mar;168(3):787–9

Hindlimb suspension and hind foot reversal in Varecia variegata and other arboreal mammals. Meldrum DJ, et al. **Am J Phys Anthropol** 1997 May;103(1):85–102 (35 ref.)

New pedal remains of Megaladapis and their functional significance. Wunderlich RE, et al.
Am J Phys Anthropol 1996 May;100(1):115–39 (62 ref.)

Three–dimensional analysis of normal ankle and foot mobility. Kitaoka HB, et al. **Am J Sports Med** 1997 Mar–Apr;25(2):238–42

The developmental skeletal growth in the rat foot is reduced after denervation. Edoff K, et al. **Anat Embryol (Berl)** 1997 Jun;195(6):531–8

Variations in foot breadth: effect on aspects of postural control during one–leg stance. Hoogvliet P, et al.
Arch Phys Med Rehabil 1997 Mar;78(3):284–9

Preloading and range of motion effect on plantarflexor muscle performance. Nadeau S, et al.
Arch Phys Med Rehabil 1996 Oct;77(10):1000–4

Experience of clinical use of the Odstock dropped foot stimulator. Burridge J, et al. **Artif Organs** 1997 Mar; 21(3):254–60

Natural versus artificial sensors applied in peroneal nerve stimulation. Upshaw BJ, et al. **Artif Organs** 1997 Mar; 21(3):227–31

Interaction of nociceptive and non–nociceptive cutaneous afferents from foot sole in common reflex pathways to tibialis anterior motoneurones in humans. Rossi A, et al.
Brain Res 1996 Apr 1;714(1–2):76–86

Analysis of longitudinal arch supports in stabilizing the arch of the foot. Kitaoka HB, et al. **Clin Orthop** 1997 Aug; (341):250–6

The epidemiology and clinical manifestations of hamstring muscle and plantar foot flexor shortening. Jożwiak M, et al. **Dev Med Child Neurol** 1997 Jul;39(7):481–3

Selective gating of lower limb cortical somatosensory evoked potentials (SEPs) during passive and active foot movements. Tinazzi M, et al.
Electroencephalogr Clin Neurophysiol 1997 Jul; 104(4):312–21

Variable innervation of the intrinsic foot muscles. An electrophysiological study. Linden D, et al.
Electromyogr Clin Neurophysiol 1996 Oct–Nov; 36(7):399–403

Temperatures measured by a deep body thermometer (Coretemp) compared with tissue temperatures measured at various depths using needles placed into the sole of the foot. Matsukawa T, et al. **Eur J Anaesthesiol** 1996 Jul; 13(4):340–5

Unilateral displacement of lower limb evokes bilateral EMG responses in leg and foot muscles in standing humans. Corna S, et al. **Exp Brain Res** 1996 Apr;109(1):83–91

The significance of somatosensory stimulations to the human foot in the control of postural reflexes. Wu G, et al.
Exp Brain Res 1997 Mar;114(1):163–9

A comparison study of plantar foot pressure in a standardized shoe, total contact cast, and prefabricated pneumatic walking brace. Baumhauer JF, et al. **Foot Ankle Int** 1997 Jan;18(1):26–33

Plantar pressure measurements during ambulation in weightbearing conventional short leg casts and total contact casts. Conti SF, et al. **Foot Ankle Int** 1996 Aug; 17(8):464–9

The plantar aponeurosis. Hedrick MR. **Foot Ankle Int** 1996 Oct;17(10):646–9 (18 ref.)

Effect of the posterior tibial tendon on the arch of the foot during simulated weightbearing: biomechanical analysis. Kitaoka HB, et al. **Foot Ankle Int** 1997 Jan;18(1):43–6

Two–point discrimination of vibratory perception on the sole of the human foot. Kowalzik R, et al. **Foot Ankle Int** 1996 Oct;17(10):629–34

A comparison of two motion analysis systems for the measurement of two–dimensional rearfoot motion during walking. Mannon K, et al. **Foot Ankle Int** 1997 Jul; 18(7):427–31

Plantar foot pressures during treadmill walking with high–heel and low–heel shoes. Nyska M, et al.
Foot Ankle Int 1996 Nov;17(11):662–6

In–shoe plantar pressures during activities of daily living: implications for therapeutic footwear design. Rozema A, et al. **Foot Ankle Int** 1996 Jun;17(6):352–9

The hand as a teaching tool defining the terminology of motion of the foot. Sarrafian SK. **Foot Ankle Int** 1997 Jan; 18(1):59

Rear foot inversion/eversion during gait relative to the subtalar joint neutral position [letter; comment] Sobel E,

et al. **Foot Ankle Int** 1996 Dec;17(12):786. Comment on: Foot Ankle Int 1996 Jul;17(7):406–12.

Foot orientation and lower limb kinematics during running. Viale F, et al. **Foot Ankle Int** 1997 Mar;18(3):157–62

Limb laterality and motor proficiency in children. Iteya M, et al. **Int J Neurosci** 1995 Dec;83(3–4):275–9

Foot and hand area mu rhythms. Pfurtscheller G, et al. **Int J Psychophysiol** 1997 Jun;26(1–3):121–35 (43 ref.)

Planter foot pressures in pregnant women. Nyska M, et al. **Isr J Med Sci** 1997 Feb;33(2):139–46

Foot position awareness in younger and older men: the influence of footwear sole properties. Robbins S, et al. **J Am Geriatr Soc** 1997 Jan;45(1):61–6

Clinical applications of three–dimensional magnetic resonance image analysis. Bauer GR, et al. **J Am Podiatr Med Assoc** 1996 Jan;86(1):33–7

Novel methodology to obtain salient biomechanical characteristics of insole materials. Lavery LA, et al. **J Am Podiatr Med Assoc** 1997 Jun;87(6):266–71

Foot type biomechanics. comparison of planus and rectus foot types. Song J, et al. **J Am Podiatr Med Assoc** 1996 Jan;86(1):16–23

The generation of torque in the horizontal plane at the foot–base during laterally directed manual exertions. Wilkinson AT, et al. **J Anat** 1996 Aug;189 (Pt 1):135–43

A two–part, viscoelastic foot model for use in gait simulations. Gilchrist LA, et al. **J Biomech** 1996 Jun; 29(6):795–8

A controlled–release ergometer for the human ankle. Hof AL. **J Biomech** 1997 Feb;30(2):203–6

Dominant role of interface over knee angle for cushioning impact loading and regulating initial leg stiffness. Lafortune MA, et al. **J Biomech** 1996 Dec;29(12):1523–9

Influence of lateral destabilization on compensatory stepping responses. Maki BE, et al. **J Biomech** 1996 Mar; 29(3):343–53

Improved agreement of foot segmental power and rate of energy change during gait: inclusion of distal power terms and use of three–dimensional models. Siegel KL, et al. **J Biomech** 1996 Jun;29(6):823–7

Identification and correlation of human footfall load parameters using multivariate analysis. Wilson JF, et al. **J Biomech Eng** 1997 Feb;119(1):115–23

The effect of active movement of the foot on venous blood flow after total hip replacement. McNally MA, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1198–201

Dynamic control of location–specific information in tactile cutaneous reflexes from the foot during human walking. Van Wezel BM, et al. **J Neurosci** 1997 May 15; 17(10):3804–14

The relationship between static lower extremity measurements and rearfoot motion during walking. McPoil TG, et al. **J Orthop Sports Phys Ther** 1996 Nov; 24(5):309–14

The influence of experience on the reliability of goniometric and visual measurement of forefoot position. Somers DL, et al. **J Orthop Sports Phys Ther** 1997 Mar;25(3):192–202

Analysis of toe pressures under the foot while dynamic standing on one foot in healthy subjects. Tanaka T, et al. **J Orthop Sports Phys Ther** 1996 Mar;23(3):188–93

Sprinting and intoeing. Fuchs R, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):489–91

A Holter–type, microprocessor–based, rehabilitation instrument for acquisition and storage of plantar pressure data. Abu–Faraj ZO, et al. **J Rehabil Res Dev** 1997 Apr; 34(2):187–94

In–shoe biaxial shear force measurement: the Kent shear system. Akhlaghi F, et al. **Med Biol Eng Comput** 1996 Jul; 34(4):315–7

Calibration of optical foot pressure systems. Franks CI. **Med Biol Eng Comput** 1997 Jan;35(1):69–72

Spatial resolution in plantar pressure measurement. Lord M. **Med Eng Phys** 1997 Mar;19(2):140–4

Relationship between rearfoot and forefoot orientation and ground reaction forces during running. Freychat P, et al. **Med Sci Sports Exerc** 1996 Feb;28(2):225–32

Adenosine triphosphate production rates, metabolic economy calculations, pH, phosphomonoesters, phosphodiesters, and force output during short–duration maximal isometric plantar flexion exercises and repeated maximal isometric plantar flexion exercises. Newcomer BR, et al. **Muscle Nerve** 1997 Mar;20(3):336–46

Plantar pressure reduction in an incremental weight–bearing system. Flynn TW, et al. **Phys Ther** 1997 Apr;77(4):410–6

Stiffness control in posterior–type plastic ankle–foot orthoses: effect of ankle trimline. Part 2: Orthosis characteristics and orthosis/patient matching. Sumiya T, et al. **Prosthet Orthot Int** 1996 Aug;20(2):132–7

Stiffness control in posterior–type plastic ankle–foot orthoses: effect of ankle trimline. Part 1: A device for measuring ankle moment. Sumiya T, et al. **Prosthet Orthot Int** 1996 Aug;20(2):129–31

Relationships between torque, velocity and power output during plantarflexion in healthy subjects. Nadeau S, et al. **Scand J Rehabil Med** 1997 Mar;29(1):49–55

Some biomechanical consequences of varying foot placement in sit–to–stand in young women. Shepherd RB, et al. **Scand J Rehabil Med** 1996 May;28(2):79–88

PHYSIOPATHOLOGY

Autosomal recessive paraparesis with amyotrophy of hands and feet and white matter lesions. Malandrini A, et al. **Acta Neurol Scand** 1996 Jul;94(1):60–2

Regeneration of tactile lamellar corpuscles of the rat after postnatal freeze injury. Jirmanová I, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):363–74

Plantar pressure distribution after resection of the metatarsal heads in rheumatoid arthritis. Bitzan P, et al. **Foot Ankle Int** 1997 Jul;18(7):391–7

Mechanical behavior of the foot and ankle after plantar fascia release in the unstable foot. Kitaoka HB, et al. **Foot Ankle Int** 1997 Jan;18(1):8–15

The Foot Function Index for measuring rheumatoid arthritis pain: evaluating side–to–side reliability. Saag KG, et al. **Foot Ankle Int** 1996 Aug;17(8):506–10

Effect of partial versus complete plantar fasciotomy on the windlass mechanism. Thordarson DB, et al. **Foot Ankle Int** 1997 Jan;18(1):16–20

Altered response in cutaneous sympathetic outflow to mental and thermal stimuli in primary palmoplantar hyperhidrosis. Iwase S, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):65–73

Frequency content of normal and diabetic plantar pressure profiles: implications for the selection of transducer sizes. Davis BL, et al. **J Biomech** 1996 Jul;29(7):979–83

Varus malalignment of the talar neck. Its effect on the position of the foot and on subtalar motion. Daniels TR, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1559–67

Effectiveness of diabetic insoles to reduce foot pressures. Ashry HR, et al. **J Foot Ankle Surg** 1997 Jul–Aug; 36(4):268–71; discussion 328–9

Analysis of stresses in two–dimensional models of normal and neuropathic feet. Patil KM, et al. **Med Biol Eng Comput** 1996 Jul;34(4):280–4

Three–dimensional finite element stress analysis of the polypropylene ankle–foot orthoses: static analysis by Chu et al [letter; comment] Paul JP. **Med Eng Phys** 1996 Oct; 18(7):607–8. Comment on: Med Eng Phys 1995 Jul;17(5):372–9.

Foot dipping in coma [letter; comment] Chang GY. **Neurology** 1997 Aug;49(2):640–1. Comment on: Neurology 1995 May;45(5):985–6.

Enhanced withdrawal responses to heat and mechanical stimuli following intraplantar injection of capsaicin in rats. Gilchrist HD, et al. **Pain** 1996 Sep;67(1):179–88

Both motor and sensory abnormalities contribute to changes in foot posture in an experimental rat neuropathic model. Na HS, et al. **Pain** 1996 Sep;67(1):173–8

[Movement–related cortical potentials upon forward–stepping in patients with Parkinson disease] Saitou K, et al. **Nippon Rinsho** 1997 Jan;55(1):185–8 (Eng. Abstr.) **(Jpn)**

[The function of the musculo–venous "pump" of the foot in varicose veins] Sukovatykh BS, et al. **Klin Khir** 1994; (12):54–6 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Pictorial review: foot axes and angles. Gentili A, et al. **Br J Radiol** 1996 Oct;69(826):968–74 (5 ref.)

Radiographic damage in large joints in early rheumatoid arthritis: relationship with radiographic damage in hands and feet, disease activity, and physical disability. Kuper HH, et al. **Br J Rheumatol** 1997 Aug;36(8):855–60

Relationship between ossification of the cartilages of the foot and conformation and radiographic measurements of the front feet in Finnhorses. Ruohoniemi M, et al. **Equine Vet J** 1997 Jan;29(1):44–8

Clinical and radiographic outcome of revision surgery for failed triple arthrodesis. Haddad SL, et al. **Foot Ankle Int** 1997 Aug;18(8):489–99

The chevron osteotomy: a clinical and radiographic analysis. Mann RA, et al. **Foot Ankle Int** 1997 May;18(5):255–61

Juvenile chronic arthritis: radiologic manifestations in the foot and ankle. Tong G, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):260–2

SURGERY

Minor amputations on the feet after revascularization for gangrene. A consecutive series of 95 limbs. Albrektsen SB, et al. **Acta Orthop Scand** 1997 Jun;68(3):291–3

Reconstruction of the heel pad in ankle disarticulation with a free muscle transfer. Pinzur MS, et al. **Am J Orthop** 1997 Jul;26(7):491–3

Continuous popliteal sciatic nerve block: an original technique to provide postoperative analgesia after foot surgery. Singelyn FJ, et al. **Anesth Analg** 1997 Feb; 84(2):383–6

Salvage of a below–the–knee amputation with a fillet of foot free flap: a 15–year follow–up. Shaw WW, et al. **Ann Plast Surg** 1996 Oct;37(4):433–8

Unilateral cleft foot deformity. Koldaş T, et al. **Arch Orthop Trauma Surg** 1996;115(5):295–6

Mycosis fungoides palmaris et plantaris: successful treatment with the carbon dioxide laser. Goldberg DJ, et al. **Br J Dermatol** 1997 Apr;136(4):617–9

The distally based islanded dorsal foot flap. Bharathwaj VS, et al. **Br J Plast Surg** 1997 Jun;50(4):284–7

The dorsal metatarsal V–Y advancement flap for dorsal foot reconstruction [letter; comment] Wechselberger G, et al. **Br J Plast Surg** 1996 Oct;49(7):500–1. Comment on: Br J Plast Surg 1996 Apr;49(3):170–3.

Prophylaxis in lower–extremity infectious diseases. Joseph WS, et al. **Clin Podiatr Med Surg** 1996 Oct;13(4):647–60 (41 ref.)

Ambulatory phlebectomy of the foot. Review of 75 patients. Olivencia JA. **Dermatol Surg** 1997 Apr;23(4):279–80

Distally based flaps for skin coverage of the foot and ankle. Hallock GG. **Foot Ankle Int** 1996 Jun;17(6):343–8 (25 ref.)

Trochanteric bone grafts in foot and ankle surgery. Hayes WR Jr, et al. **Foot Ankle Int** 1996 Jul;17(7):402–5

Kenneth A. Johnson Memorial Lecture. What makes for effective orthopaedic teaching? Mann RA. **Foot Ankle Int** 1996 Dec;17(12):727–31

Clinical safety and efficacy of calf tourniquets. Michelson JD, et al. **Foot Ankle Int** 1996 Sep;17(9):573–5

Popliteal sciatic nerve block for postoperative analgesia. Rongstad K, et al. **Foot Ankle Int** 1996 Jul;17(7):378–82

Effect of partial versus complete plantar fasciotomy on the windlass mechanism. Thordarson DB, et al. **Foot Ankle Int** 1997 Jan;18(1):16–20

Digital pad transposition for replacement of the metacarpal or metatarsal pad in dogs. Olsen D, et al. **J Am Anim Hosp Assoc** 1997 Jul–Aug;33(4):337–41

Retrospective review of endoscopic plantar fasciotomy—1992 through 1994. Stone PA, et al. **J Am Podiatr Med Assoc** 1996 Sep;86(9):414–20

The use of a permanent dermal allograft in full–thickness burns of the hand and foot: a report of three cases. Lattari V, et al. **J Burn Care Rehabil** 1997 Mar–Apr;18(2):147–55

Introduction to bone grafting. Blitch EL, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):458–62 (20 ref.)

Different forms of bone grafts. Bollo A, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):400–5

The application of allograft bone in foot and ankle surgery. Catanzariti A, et al. **J Foot Ankle Surg** 1996 Sep–Oct; 35(5):440–51 (87 ref.)

Psoriasis and elective foot surgery [see comments] Cheleuitte E, et al. **J Foot Ankle Surg** 1996 Jul–Aug;35(4):297–302; discussion 371 (25 ref.). Comment in: J Foot Ankle Surg 1997 Jan–Feb;36(1):77–8.

Psoriasis and elective foot surgery [letter; comment] Griffith L. **J Foot Ankle Surg** 1997 Jan–Feb;36(1):77–8. Comment on: J Foot Ankle Surg 1996 Jul–Aug;35(4):297–302; discussion 371.

A review of wound healing and wound dressing products. Hanna JR, et al. **J Foot Ankle Surg** 1997 Jan–Feb; 36(1):2–14; discussion 79 (39 ref.)

Autogenous bone grafting. Hofbauer MH, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):386–90

"Endoscopic plantar fasciotomy: a multi–surgeon prospective analysis of 652 cases". Landsman A. **J Foot Ankle Surg** 1996 Jan–Feb;35(1):86

Techniques for harvesting autogenous bone graft of the lower extremity. Mendicino RW, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):428–35

Radiographic evaluation of bone grafts. Nigro N, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):378–85

The use of transpositional skin flaps in closing plantar defects: a case report. Park EY, et al. **J Foot Ankle Surg** 1997 Jul–Aug;36(4):315–21; discussion 329

Coralline hydroxyapatite: a bone graft alternative in foot and ankle surgery. Rahimi F, et al. **J Foot Ankle Surg** 1997 May–Jun;36(3):192–203; discussion 255–6 (27 ref.)

Retrospective assessment of antibiotic and tourniquet use in an ambulatory surgery center. Reyes C, et al. **J Foot Ankle Surg** 1997 Jan–Feb;36(1):55–62

Utilization of autogenous corticocancellous bone graft from the distal tibia for reconstructive surgery of the foot and ankle. Saltrick KR, et al. **J Foot Ankle Surg** 1996 Sep–Oct; 35(5):406–12

Iliac crest donor site morbidity in foot and ankle surgery. Schulhofer SD, et al. **J Foot Ankle Surg** 1997 Mar–Apr; 36(2):155–8; discussion 161

Free vascularized bone graft. Storm TR, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):436–9

Comment: surgical reconstruction of leprotic foot–drop [letter] Andersen JG. **Lepr Rev** 1997 Mar;68(1):96

Amputations of the foot and ankle: review of techniques and results. Choudhury SN, et al. **Orthopedics** 1997 May; 20(5):446–57, quiz 458–9 (70 ref.)

Regional anesthesia in foot and ankle surgery. Lee TH, et al. **Orthopedics** 1996 Jul;19(7):577–80

Partial failure of a free flap salvaged by using the surviving portion as a "bridge" flap for revascularizing a second free flap. Hallock GG. **Plast Reconstr Surg** 1997 Sep; 100(4):981–5

[Sciatic nerve block at the popliteal fossa for foot surgery] Monsó A, et al. **Rev Esp Anestesiol Reanim** 1996 Jan; 43(1):27–9 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Ingenious use of prosthesis in China [letter] Cheng TO. **J Biocommun** 1997;24(1):2

ULTRASONOGRAPHY

Water bath and contact methods in ultrasonic evaluation of bone. Häusler KD, et al. **Calcif Tissue Int** 1997 Jul; 61(1):26–9

Sonographic evaluation of soft tissue chondroma. Bianchi S, et al. **J Clin Ultrasound** 1996 Mar–Apr;24(3):148–50

FOOT-AND-MOUTH DISEASE

DIAGNOSIS

[Use of protease 3c and foot-and-mouth disease virus RNA polymerase hybrid proteins, synthesized in Escherichia coli, for diagnosis] Aminev AG, et al. **Mol Biol (Mosk)** 1997 May-Jun;31(3):568-72 **(Rus)**

DRUG THERAPY

Dexamethasone inhibits virus production and the secretory IgA response in oesophageal-pharyngeal fluid in cattle persistently infected with foot-and-mouth disease virus. Ilott MC, et al. **Epidemiol Infect** 1997 Apr;118(2):181-7

EPIDEMIOLOGY

Identification of foot-and-mouth disease virus-free regions by use of a standardized enzyme-linked immunoelectrotransfer blot assay. Bergmann IE, et al. **Am J Vet Res** 1996 Jul;57(7):972-4

An analysis of foot-and-mouth-disease epidemics in the UK. Haydon DT, et al. **IMA J Math Appl Med Biol** 1997 Mar; 14(1):1-9

The 1992 foot-and-mouth disease epizootic in the Kruger National Park. Keet DF, et al. **J S Afr Vet Assoc** 1996 Jun;67(2):83-7

A risk-assessment model for foot and mouth disease (FMD) virus introduction through deboned beef importation. Yu P, et al. **Prev Vet Med** 1997 Apr;30(1):49-59

Foot-and-mouth disease in Taiwan [letter] Donaldson AI. **Vet Rec** 1997 Apr 12;140(15):407

IMMUNOLOGY

Foot-and-mouth disease virus-infected but not vaccinated cattle develop antibodies against recombinant 3AB1 nonstructural protein. Silberstein E, et al. **Arch Virol** 1997; 142(4):795-805

Cellular immune response to foot-and-mouth disease virus. Cedillo-Barron L, et al. **Biochem Soc Trans** 1997 May; 25(2):275S

Isotype-specific antibody responses to foot-and-mouth disease virus in sera and secretions of "carrier' and "non-carrier' cattle. Salt JS, et al. **Epidemiol Infect** 1996 Oct;117(2):349-60

Duration of the foot-and-mouth disease virus antibody response in mice is closely related to the presence of antigen-specific presenting cells. Wigdorovitz A, et al. **J Gen Virol** 1997 May;78 (Pt 5):1025-32

Detection of antibodies against foot-and-mouth disease virus using a liquid-phase blocking sandwich ELISA (LPBE) with a bioengineered 3D protein. O'Donnell VK, et al. **J Vet Diagn Invest** 1996 Apr;8(2):143-50

Preparation of virus-infection-associated (VIA) antigen of foot-and-mouth disease (FMD) virus from inactivated vaccine. Sugimura T, et al. **J Vet Med Sci** 1996 Jun; 58(6):599-601

Plasmid DNA encoding replicating foot-and-mouth disease virus genomes induces antiviral immune responses in swine. Ward G, et al. **J Virol** 1997 Oct;71(10):7442-7

Implementation of internal laboratory quality control procedures for the monitoring of ELISA performance at a regional veterinary laboratory. Blacksell SD, et al. **Vet Microbiol** 1996 Jul;51(1-2):1-9

Role of a distinct population of bovine gamma delta T cells in the immune response to viral agents. Amadori M, et al. **Viral Immunol** 1995;8(2):81-91

[The use of synthetic peptides for detection of antibodies against foot-and-mouth disease virus in the blood from convalescent animals] Petrov VN, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul-Sep;(3):27-31 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Progress toward control of foot-and-mouth disease. **Bull Pan Am Health Organ** 1996 Sep;30(3):273-4

A large-scale evaluation of peptide vaccines against foot-and-mouth disease: lack of solid protection in cattle and isolation of escape mutants. Taboga O, et al. **J Virol** 1997 Apr;71(4):2606-14

Prevalence of foot-and-mouth disease antibodies in dairy herds in The Netherlands four years after vaccination. Dekker A, et al. **Res Vet Sci** 1996 Jul;61(1):89-91

Synthetic vaccine against foot-and-mouth disease based on a palmitoyl derivative of the VP1 protein 135-159 fragment of the A22 virus strain. Volpina OM, et al. **Vaccine** 1996 Oct;14(14):1375-80

Foot-and-mouth disease outbreak [letter] Macgregor-Skinner G. **Vet Rec** 1996 Aug 17;139(7):171-2

Evaluation of a live-attenuated foot-and-mouth disease virus as a vaccine candidate. Mason PW, et al. **Virology** 1997 Jan 6;227(1):96-102

[I&R (identification and registration) system cattle: an analysis of its use during a foot-and-mouth-disease outbreak in The Netherlands] Nielen M, et al. **Tijdschr Diergeneeskd** 1996 Oct 15;121(20):576-81 (Eng. Abstr.) **(Dut)**

TRANSMISSION

Simulated airborne spread of Aujeszky's disease and foot-and-mouth disease. Casal J, et al. **Vet Rec** 1997 Jun 28;140(26):672-6

Infectivity assays of foot-and-mouth disease virus: contact transmission between cattle and buffalo (Bubalus bubalis) in the early stages of infection. Gomes I, et al. **Vet Rec** 1997 Jan 11;140(2):43-7

VIROLOGY

Antigenic analysis of type O foot-and-mouth disease virus in the persistently infected bovine. Salt JS, et al. **Arch Virol** 1996;141(8):1407-21

Pathogenesis of wild-type and leaderless foot-and-mouth disease virus in cattle. Brown CC, et al. **J Virol** 1996 Aug; 70(8):5638-41

Efficient infection of cells in culture by type O foot-and-mouth disease virus requires binding to cell surface heparan sulfate. Jackson T, et al. **J Virol** 1996 Aug; 70(8):5282-7

Evolution of a persistent aphthovirus in cytolytic infections: partial reversion of phenotypic traits accompanied by genetic diversification. Sevilla N, et al. **J Virol** 1996 Oct; 70(10):6617-24

Natural adaption to pigs of a Taiwanese isolate of foot-and-mouth disease virus. Dunn CS, et al. **Vet Rec** 1997 Aug 16;141(7):174-5

Serological and molecular analysis of serotype O foot-and-mouth disease virus isolated from disease outbreaks in India during 1987-91. Singh M, et al. **Virus Res** 1996 Jul;43(1):45-55

FOOT-AND-MOUTH DISEASE VIRUS see **APHTHOVIRUS**

FOOT DEFORMITIES

The painful foot, Part I: Common forefoot deformities. van Wyngarden TM. **Am Fam Physician** 1997 Apr; 55(5):1866-76 (15 ref.)

COMPLICATIONS

The painful foot, Part II: Common rearfoot deformities. Van Wyngarden TM. **Am Fam Physician** 1997 May 1; 55(6):2207-12 (07 ref.)

The combined hammer toe-mallet toe deformity with associated double corns: a retrospective review. Oliver TP, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):263-8 (9 ref.)

CONGENITAL see FOOT DEFORMITIES, CONGENITAL

DIAGNOSIS

A simple demonstration of hindfoot flexibility in the cavovarus foot. Price BD, et al. **J Pediatr Orthop** 1997 Jan-Feb;17(1):18-9

Evaluation and management of pediatric foot deformities. Hoffinger SA. **Pediatr Clin North Am** 1996 Oct; 43(5):1091-111 (22 ref.)

Normal variant or orthopaedic abnormality? Paterson JM. **Practitioner** 1997 Jun;241(1575):342-4 (0 ref.)

ETIOLOGY

Clawfoot deformity: an analysis of the causes and surgical treatment using a modification of the Jones suspension procedure. Grumbine NA, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):221-38 (19 ref.)

[Contribution of electromyographic analysis of the walking habits of children with spastic foot in cerebral palsy: a preliminary study] Renders A, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):259-64 (Eng. Abstr.) **(Fre)**

HISTORY

Stabilizing operations on the foot: a study of the indications, techniques used, and end results. 1950 [classical article] Patterson RL Jr, et al. **Foot Ankle Int** 1996 Oct; 17(10):594-607

An anthropologist's walk into the past. Mann RW, et al. **J Am Podiatr Med Assoc** 1997 Feb;87(2):87

PATHOLOGY

Isolated first naviculocuneiform joint coalition. Kumai T, et al. **Foot Ankle Int** 1996 Oct;17(10):635-40

PHYSIOPATHOLOGY

Anatomy, biomechanics, and pathomechanics of lesser digital deformities. Green DR, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):179-200 (14 ref.)

RADIOGRAPHY

Prevalence of radiographic foot abnormalities in patients with diabetes. Smith DG, et al. **Foot Ankle Int** 1997 Jun; 18(6):342-6

Grand rounds: Haglund's deformity and retrocalcaneal intratendinous spurring [letter; comment] Grossman AB. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):70. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):362-8.

REHABILITATION

Shoe therapy. Past and present treatments. Toenges F. **Clin Podiatr Med Surg** 1997 Jan;14(1):209-14

Pediatric lower extremity splinting and bracing techniques. Valmassy RL. **Clin Podiatr Med Surg** 1997 Jan;14(1):217-28

SURGERY

Laterally closing metatarsal head osteotomy in the correction of a medially overlapping digit. Berens TA. **Clin Podiatr Med Surg** 1996 Apr;13(2):293-307 (7 ref.)

Multiple Z plasty as an adjunct procedure for the correction of contracted fifth digit. Giovinco JD. **Clin Podiatr Med Surg** 1996 Apr;13(2):207-10

Displacement osteotomy for the treatment of digital transverse plane deformities. Goforth WP, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):279-92 (16 ref.)

Correction of crossover second toe deformity. Graziano TA. **Clin Podiatr Med Surg** 1996 Apr;13(2):269-78 (6 ref.)

Anatomy, biomechanics, and pathomechanics of lesser digital deformities. Green DR, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):179-200 (14 ref.)

Clawfoot deformity: an analysis of the causes and surgical treatment using a modification of the Jones suspension procedure. Grumbine NA, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):221-38 (19 ref.)

Operative procedures for the correction of hammertoe, claw toe, and mallet toe: a literature review. Harmonson JK, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):211-20 (47 ref.)

A comparison of end-to-end versus "V" arthrodesis procedures for the correction of digital deformities. Kimmel HM, et al. **Clin Podiatr Med Surg** 1996 Apr; 13(2):239-50 (17 ref.)

Research perspectives in first metatarsal osteotomy and fixation stability. Landsman AS, et al. **Clin Podiatr Med Surg** 1996 Jul;13(3):575-87 (34 ref.)

The combined hammer toe-mallet toe deformity with associated double corns: a retrospective review. Oliver TP, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):263-8 (9 ref.)

Digital implant arthroplasty. Sgarlato TE, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):255-62 (12 ref.)

Tendon arthroplasty of the first metatarsophalangeal joint in hallux rigidus: preliminary communication. Barca F. **Foot Ankle Int** 1997 Apr;18(4):222-8

Proximal phalanx basilar osteotomy for resistant angulation of the lesser toes. Davis WH, et al. **Foot Ankle Int** 1997 Feb;18(2):103-4

Clinical evaluation of the Ruiz-Mora procedure: long-term follow-up. Dyal CM, et al. **Foot Ankle Int** 1997 Feb; 18(2):94-7

Roger Mann Award 1995. Capsular interposition arthroplasty for severe hallux rigidus. Hamilton WG, et al. **Foot Ankle Int** 1997 Feb;18(2):68-70

The influence of subtalar and triple arthrodesis on the tibiotalar joint. A long-term follow-up study. de Heus JA, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):644-7

Bone grafting for reconstructive osteotomies of the foot. Alter SA, et al. **J Foot Ankle Surg** 1996 Sep-Oct; 35(5):418-27 (39 ref.)

First metatarsophalangeal joint replacement [letter] Ham JF. **J Foot Ankle Surg** 1996 May-Jun;35(3):268-9

First metatarsophalangeal joint replacement [letter] Kravitz SR. **J Foot Ankle Surg** 1996 May-Jun;35(3):267-8

Callus distraction in reconstructive foot surgery. Martin DE, et al. **J Foot Ankle Surg** 1996 Sep-Oct;35(5):489-506

New procedure for stabilization of lesser metatarsophalangeal joints: a preliminary study. Schwartz N. **J Foot Ankle Surg** 1997 May-Jun;36(3):236-9

Surgical management of ankle valgus in children: use of a transphyseal medial malleolar screw. Davids JR, et al. **J Pediatr Orthop** 1997 Jan-Feb;17(1):3-8

Residual bone cysts after correction of severe foot deformities with the Ilizarov technique. Ganel A, et al. **J Pediatr Orthop** 1997 Jan-Feb;17(1):25-8

Screw epiphysiodesis for ankle valgus. Stevens PM, et al. **J Pediatr Orthop** 1997 Jan-Feb;17(1):9-12

THERAPY

Evaluation and management of in-toe gait in the neurologically intact child. Volpe RG. **Clin Podiatr Med Surg** 1997 Jan;14(1):57-85 (101 ref.)

Preventive treatment of foot deformities in type 1 diabetic patients aged 15-50 years--an epidemiological and prospective study. Borssén B, et al. **J Intern Med** 1996 Oct;240(4):219-25

Evaluation and management of pediatric foot deformities. Hoffinger SA. **Pediatr Clin North Am** 1996 Oct; 43(5):1091-111 (22 ref.)

[Foot changes are common in patients with diabetes type 1. Foot casts may reduce the risk of plantar wounds] Borssén B, et al. **Lakartidningen** 1997 Aug 20;94(34):2822-4 **(Swe)**

FOOT DEFORMITIES, ACQUIRED

The female foot. Meyer HR. **Foot Ankle Int** 1996 Feb; 17(2):120-4 (8 ref.)

Ischemic contracture of the foot and ankle: principles of management and prevention. Botte MJ, et al. **Orthopedics** 1996 Mar;19(3):235-44 (72 ref.)

COMPLICATIONS

Extraosseous manifestations of rheumatoid arthritis in the

FOOT DEFORMITIES, ACQUIRED

foot and ankle. O'Brien TS, et al. **Clin Orthop** 1997 Jul; (340):26–33 (46 ref.)
Surgery of the rheumatoid forefoot with special reference to the plantar approach. Tillmann K. **Clin Orthop** 1997 Jul;(340):39–47 (62 ref.)

DIAGNOSIS

Guillain–Barré syndrome. Review and presentation of a case with pedal manifestations. Viegas GV.
J Am Podiatr Med Assoc 1997 May;87(5):209–18 (89 ref.)
[Orthopedic foot abnormalities as a important sign of lumbosacral spinal lipoma in an 11–year–old boy] Prandota J, et al. **Pediatr Pol** 1996 Feb;71(2):153–6 (Eng. Abstr.) **(Pol)**

ETIOLOGY

Spontaneous fusion of the midfoot following reflex sympathetic dystrophy. A case report and review of the literature. Stratton NJ, et al. **Am J Orthop** 1996 Jul; 25(7):497–9 (16 ref.)
Acquired hallux varus. Donley BG. **Foot Ankle Int** 1997 Sep; 18(9):586–92 (32 ref.)
Acquired hallux varus and clinical tolerability. Trnka HJ, et al. **Foot Ankle Int** 1997 Sep;18(9):593–7
Study of deformities in children with leprosy: an urban experience. Mahajan PM, et al. **Indian J Lepr** 1995 Oct–Dec;67(4):405–9
Rheumatoid nodules affecting both heels with surgical debulking: a case report*. Jones RO, et al.
J Am Podiatr Med Assoc 1996 Apr;86(4):179–82
Cavus deformity of the foot secondary to a neuromuscular choristoma (hamartoma) of the sciatic nerve. A case report. Bassett GS, et al. **J Bone Joint Surg Am** 1997 Sep; 79(9):1398–401
Rupture of the posterior tibial tendon. Evaluation of injury of the spring ligament and clinical assessment of tendon transfer and ligament repair. Gazdag AR, et al.
J Bone Joint Surg Am 1997 May;79(5):675–81
Disabilities of hands, feet and eyes in newly diagnosed leprosy patients in eastern Nepal [see comments] Schipper A, et al. **Lepr Rev** 1994 Sep;65(3):239–47. Comment in: Lepr Rev 1996 Sep;67(3):231–2.
Chopart amputations [letter; comment] Keagy RD.
Orthopedics 1997 May;20(5):388. Comment on: Orthopedics 1996 Aug;19(8):689–91.
Lawn mower injury resulting in Chopart amputation in a young child [see comments] Rougraff BT, et al.
Orthopedics 1996 Aug;19(8):689–91. Comment in: Orthopedics 1997 May;20(5):388.
[The rheumatic forefoot] Kerschbaumer F, et al.
Orthopade 1996 Aug;25(4):354–61 (57 ref.) (Eng. Abstr.) **(Ger)**

HISTORY

An operation for severe grades of contracted or clawed toes. 1911 [classical article] Hoffmann P. **Clin Orthop** 1997 Jul; (340):4–6

PATHOLOGY

Pathological anatomy and dynamic effect of the displaced plantar plate and the importance of the integrity of the plantar plate–deep transverse metatarsal ligament tie–bar. Stainsby GD. **Ann R Coll Surg Engl** 1997 Jan;79(1):58–68 (17 ref.)

PHYSIOPATHOLOGY

Plantar pressure analysis of diabetic rockerbottom deformity in total contact casts. Martin RL, et al. **Foot Ankle Int** 1996 Aug;17(8):470–2

RADIOGRAPHY

Bound feet in an elderly Chinese woman. Munk PL, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1216

RADIONUCLIDE IMAGING

The bone scan in tarsal coalition: a case report. de Lima RT, et al. **Pediatr Radiol** 1996 Oct;26(10):754–6

REHABILITATION

A preliminary objective evaluation of leprosy footwear using in–shoe pressure measurement. Linge K.
Acta Orthop Belg 1996;62 Suppl 1:18–22
Cost–effective footwear for leprosy control programmes: a study in rural Ethiopia. Seboka G, et al. **Lepr Rev** 1996 Sep;67(3):208–16
Postsurgical hindfoot deformity of a patient with rheumatoid arthritis treated with custom–made foot orthoses and shoe modifications. Shrader JA, et al. **Phys Ther** 1997 Mar; 77(3):296–305

SURGERY

The surgical management of the rheumatoid foot. Grace DL.
Br J Hosp Med 1996 Nov 6–19;56(9):473–80
Arthroplasty of rheumatoid metatarsophalangeal joints. An outcome study. Clayton ML, et al. **Clin Orthop** 1997 Jul; (340):48–57
Rheumatoid arthritis. Hindfoot disease. Cracchiolo A 3rd. **Clin Orthop** 1997 Jul;(340):58–68
Long–term followup of rheumatoid forefoot surgery. Hamalainen M, et al. **Clin Orthop** 1997 Jul;(340):34–8
Arthroplasty for rheumatoid forefoot deformities by a shortening oblique osteotomy. Hanyu T, et al.
Clin Orthop 1997 May;(338):131–8
Management of the rheumatoid hindfoot with special reference to talonavicular arthrodesis. Kindsfater K, et al. **Clin Orthop** 1997 Jul;(340):69–74
Talonavicular arthrodesis for the painful adult acquired flatfoot [see comments] Harper MC, et al.
Foot Ankle Int 1996 Nov;17(11):658–61. Comment in: Foot Ankle Int 1997 Jun;18(6):375–6.
Sling procedure for correction of splay–foot, metatarsus primus varus, and hallux valgus. Joplin RJ.
Foot Ankle Int 1996 Mar;17(3):136–41
Biomechanical assessment of a new tenodesis for correction of hallux varus. Juliano PJ, et al. **Foot Ankle Int** 1996 Jan; 17(1):17–20
Results of hallux varus correction using an extensor hallucis brevis tenodesis. Myerson MS, et al. **Foot Ankle Int** 1996 Jan;17(1):21–7
Iatrogenic metatarsus primus elevatus. Etiology, evaluation, and surgical management. Cicchinelli LD, et al.
J Am Podiatr Med Assoc 1997 Apr;87(4):165–77
Acute and chronic pedal boutonnière deformity. Quebedeaux T, et al. **J Am Podiatr Med Assoc** 1996 Sep;86(9):447–50
Adult acquired flatfoot deformity. Treatment of dysfunction of the posterior tibial tendon [letter] Mann RA.
J Bone Joint Surg Am 1997 Sep;79(9):1434
The modified Jones procedure for pes cavovarus with claw hallux. de Palma L, et al. **J Foot Ankle Surg** 1997 Jul–Aug; 36(4):279–83
Reconstruction of the diabetic Charcot foot incorporating bone grafts. Deresh GM, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):474–88
Application of external fixators in major foot contractures. Erdoğan B, et al. **J Foot Ankle Surg** 1996 May–Jun; 35(3):218–21
Major arthrodeses in patients with neuropathic arthropathy. Sticha RS, et al. **J Foot Ankle Surg** 1996 Nov–Dec; 35(6):560–6
Supramalleolar osteotomy for ankle valgus in myelomeningocele. Abraham E, et al. **J Pediatr Orthop** 1996 Nov–Dec;16(6):774–81
Tibialis anterior transfer for calcaneal deformity: a postoperative gait analysis. Stott NS, et al.
J Pediatr Orthop 1996 Nov–Dec;16(6):792–8
Surgical reconstruction of leprotic foot–drop. Bari MM, et al. **Lepr Rev** 1996 Sep;67(3):200–2
Comment: long–term follow–up of joint stabilization procedures in the treatment of fixed deformities of feet in leprosy [letter; comment] Schreuder PA. **Lepr Rev** 1997 Mar;68(1):94. Comment on: Lepr Rev 1996 Jun;67(2):126–34.
Reconstruction of a complex defect on the foot with an osteotendofasciocutaneous lateral arm free flap. Case report. Moshammer HE, et al.
Scand J Plast Reconstr Surg Hand Surg 1997 Sep; 31(3):271–3
[Corrective soft tissue interventions for equinovarus deformity. Foot deformities after tibial compartment syndrome] Dávid A, et al. **Unfallchirurg** 1997 May; 100(5):371–4 (Eng. Abstr.) **(Ger)**
[Surgical treatment of a bunionette] Kasparek M, et al.
Z Orthop Ihre Grenzgeb 1996 Nov–Dec;134(6):520–3 (Eng. Abstr.) **(Ger)**

THERAPY

Shoes and insoles for patients with rheumatoid foot disease. Grifka JK. **Clin Orthop** 1997 Jul;(340):18–25 (15 ref.)
Nerve involvement in leprosy. Prevention and management of deformities: need for a paradigm–shift [editorial] Palande DD. **Lepr Rev** 1994 Sep;65(3):161–4

FOOT DEFORMITIES, CONGENITAL

An anomalous muscle in children with congenital talipes. Porter RW. **Clin Anat** 1996;9(1):25–7
Keipert syndrome in two brothers from Turkey. Balci S, et al. **Clin Genet** 1996 Oct;50(4):223–8
Fibular dimelia and mirror foot without associated anomalies. Bayram H, et al. **Clin Genet** 1996 Jun;49(6):311–3
Unusual congenital limb anomalies. Agarwal RP, et al.
Indian Pediatr 1996 Jan;33(1):58–60
Accessory bone or unusual congenital anomaly. O'Rourke J, et al. **J Am Podiatr Med Assoc** 1997 Sep;87(9):407–13 (52 ref.)
What syndrome is this? Ectrodactyly, ectodermal dysplasia, and cleft palate (EEC) syndrome. Miller CI, et al.
Pediatr Dermatol 1997 May–Jun;14(3):239–40
Freeman Sheldon syndrome: severe upper airway obstruction requiring neonatal tracheostomy. Robinson PJ.
Pediatr Pulmonol 1997 Jun;23(6):457–9 (5 ref.)
[Results of podoscope screening in 948 non–selected children, with special reference to cavus foot] González de Aledo Linos A, et al. **An Esp Pediatr** 1996 Dec;45(6):579–82 (Eng. Abstr.) **(Spa)**

BLOOD

Normal erythrocyte membrane Gs alpha bioactivity in two unrelated patients with acrodysostosis. Wilson LC, et al.
J Med Genet 1997 Feb;34(2):133–6

COMPLICATIONS

Ocular manifestations in a father and son with EEC syndrome. Käsmann B, et al.
Graefes Arch Clin Exp Ophthalmol 1997 Aug;235(8):512–6
Ectrodactyly, soft–tissue syndactyly, and nodulocystic acne: coincidence or association? Krunic AL, et al.
Pediatr Dermatol 1997 Jan–Feb;14(1):31–5

DIAGNOSIS

Ectrodactyly–ectodermal dysplasia–clefting syndrome and hypothalamo–pituitary insufficiency. Gershoni–Baruch R, et al. **Am J Med Genet** 1997 Jan 20;68(2):168–72
Ectrodactyly–ectodermal dysplasia–-clefting (EEC) syndrome. Moshegov CN. **Arch Ophthalmol** 1996 Oct; 114(10):1290–1
Craniosynostosis with Marfan syndrome, hand and foot anomalies [letter] Shah AM, et al. **Clin Dysmorphol** 1996 Jul;5(3):263–6
MR findings of macrodystrophia lipomatosa. Soler R, et al.
Clin Imaging 1997 Mar–Apr;21(2):135–7
Surgical correction of a simian foot. Kelly IP, et al.
Foot Ankle Int 1996 Mar;17(3):174–6
Metatarsus adductus and skewfoot. Greene WB.
Instr Course Lect 1994;43:161–77 (66 ref.)
Painful os cuboideum secundarium. Cross–sectional imaging findings. Logan PM, et al. **J Am Podiatr Med Assoc** 1996 Mar;86(3):123–5
Delta phalanx [letter; comment] Sobel E, et al.
J Foot Ankle Surg 1996 May–Jun;35(3):266–7. Comment on: J Foot Ankle Surg 1996 Jan–Feb;35(1):49–53.
Foot deformities at birth: a longitudinal prospective study over a 16–year period. Widhe T. **J Pediatr Orthop** 1997 Jan–Feb;17(1):20–4
Hemimegalencephaly associated with somatic hemihypertrophy and a malformation of the feet: case report. Calzolari F, et al. **Neuroradiology** 1996 May; 38(4):367–70
Fibrous hamartoma of infancy. German DS, et al.
Orthopedics 1996 Mar;19(3):258–60 (10 ref.)
Common lower extremity problems in children. Wells L.
Prim Care 1996 Jun;23(2):299–303

EMBRYOLOGY

Congenital scalp defect, distal limb reduction anomalies, right spastic hemiplegia and hypoplasia of the left arteria cerebri media. Further evidence that interruption of early embryonic blood supply may result in Adams–Oliver (plus) syndrome. Fryns JP, et al. **Clin Genet** 1996 Dec;50(6):505–9

EPIDEMIOLOGY

Endemic fluorosis with genu valgum syndrome in a village of district Mandla, Madhya Pradesh. Chakma T, et al.
Indian Pediatr 1997 Mar;34(3):232–6

ETIOLOGY

Severe malformation of one foot from amniocentesis needle injury. Holmes LB. **Clin Dysmorphol** 1997 Jul;6(3):273–9; discussion 279–80
The feet in Crouzon syndrome. Anderson PJ, et al.
J Craniofac Genet Dev Biol 1997 Jan–Mar;17(1):43–7

GENETICS

Clinical and locus heterogeneity in brachydactyly type C. Robin NH, et al. **Am J Med Genet** 1997 Jan 31;68(3):369–77
Familial distal arthrogryposis type I. Stoll C, et al.
Ann Genet 1996;39(2):75–80
An autosomal recessive adducted thumb–club foot syndrome observed in Turkish cousins. Dundar M, et al.
Clin Genet 1997 Jan;51(1):61–4
Brachydactyly type C gene maps to human chromsome 12q24. Polymeropoulos MH, et al. **Genomics** 1996 Nov 15; 38(1):45–50
Characterization of the split hand/split foot malformation locus SHFM1 at 7q21.3–q22.1 and analysis of a candidate gene for its expression during limb development. Crackower MA, et al. **Hum Mol Genet** 1996 May; 5(5):571–9
Genotype–phenotype correlation for nucleotide substitutions in the IgII–IgIII linker of FGFR2. Oldridge M, et al.
Hum Mol Genet 1997 Jan;6(1):137–43
Ehler's Danlos syndrome with atypical foot deformity. Bhat GA, et al. **J Assoc Physicians India** 1995 May;43(5):360–1
Split hand/split foot malformation, deafness, and mental retardation with a complex cytogenetic rearrangement involving 7q21.3. Ignatius J, et al. **J Med Genet** 1996 Jun; 33(6):507–10
Refined mapping of a gene for split hand–split foot malformation (SHFM3) on chromosome 10q25.
Raas–Rothschild A, et al. **J Med Genet** 1996 Dec; 33(12):996–1001
Mirror hands and feet [letter] van Steensel MA.
J Med Genet 1997 Aug;34(8):701–2
Mutation of HOXA13 in hand–foot–genital syndrome [see comments] Mortlock DP, et al. **Nat Genet** 1997 Feb; 15(2):179–80. Comment in: Nat Genet 1997 Feb;15(2):117–8.
HOX gene links limb, genital defects [news] Dickman S.

Science 1997 Mar 14;275(5306):1568

[Cryptorchidism with didymo-epididymal dissociation and Robinow's syndrome: 2 case reports] Fabbro MA, et al. **Pediatr Med Chir** 1997 Mar-Apr;19(2):121-4 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Digital anomalies, microcephaly, and normal intelligence: new syndrome or Feingold syndrome? Kawame H, et al. **Am J Med Genet** 1997 Mar 31;69(3):240-4

A second case of microcephaly, microphthalmia, ectrodactyly (split-foot) and prognathism (MMEP). Suthers G, et al. **Clin Dysmorphol** 1996 Jan;5(1):77-9

Ectrodactyly of lower limbs, congenital heart defect and characteristic facies in four unrelated Dutch patients: a new association. Van Den Ende JJ, et al. **Clin Dysmorphol** 1996 Jan;5(1):1-7

Congenital metatarsus adductus in early human fetal development: a histologic study. Morcuende JA, et al. **Clin Orthop** 1996 Dec;(333):261-6

Macrodystrophia lipomatosa of the foot: a report of three cases and literature review. Bailey EJ, et al. **Foot Ankle Int** 1997 Feb;18(2):89-93 (17 ref.)

Acrorenal syndrome associated with visual defect. al Salloum AA, et al. **Pediatr Nephrol** 1996 Dec;10(6):759-60

PHYSIOPATHOLOGY

Distal arthrogryposis type 1: clinical analysis of a large kindred. Bamshad M, et al. **Am J Med Genet** 1996 Nov 11;65(4):282-5

Extending the spectrum of distal arthrogryposis. Gripp KW, et al. **Am J Med Genet** 1996 Nov 11;65(4):286-90

[Rotational deformities of the lower limbs in children] Lokiec F, et al. **Harefuah** 1996 Jun 2;130(11):770-4 (31 ref.) **(Heb)**

PREVENTION & CONTROL

Does periconceptional multivitamin use reduce the risk for limb deficiency in offspring? Yang Q, et al. **Epidemiology** 1997 Mar;8(2):157-61

RADIOGRAPHY

Unilateral hypoplasia of the calcaneus associated with other abnormalities. A new entity? Theodorou SD, et al. **Acta Orthop Belg** 1996 Sep;62(3):165-7

Longitudinal epiphyseal bracket: associated foot deformities with implications for treatment. Sobel E, et al. **J Am Podiatr Med Assoc** 1996 Apr;86(4):147-55 (23 ref.)

Radiologic case study. Skewfoot. Cavalier R, et al. **Orthopedics** 1997 Aug;20(8):736, 728-30

Skeletal abnormalities of hands and feet in Laurence-Moon-Bardet-Biedl (LMBB) syndrome: a radiographic study. Rudling O, et al. **Skeletal Radiol** 1996 Oct;25(7):655-60

SURGERY

Unilateral cleft foot deformity. Koldaş T, et al. **Arch Orthop Trauma Surg** 1996;115(5):295-6

Congenital digital deformities. McDaniel L, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):327-42 (49 ref.)

Surgical correction of a simian foot. Kelly IP, et al. **Foot Ankle Int** 1996 Mar;17(3):174-6

Early one-stage reconstruction of congenital vertical talus. Stricker SJ, et al. **Foot Ankle Int** 1997 Sep;18(9):535-43

Effect of proximal phalangeal epiphysiodesis in the treatment of macrodactyly. Topoleski TA, et al. **Foot Ankle Int** 1997 Aug;18(8):500-3

Concomitant syndactyly and polydactyly in a pediatric foot. Adler J, et al. **J Foot Ankle Surg** 1997 Mar-Apr;36(2):151-4

Delta phalanx [see comments] Day MR, et al. **J Foot Ankle Surg** 1996 Jan-Feb;35(1):49-53. Comment in: J Foot Ankle Surg 1996 May-Jun;35(3):266-7.

Polydactyly in the pre-adolescent foot: an unusual case presentation with impending pathologic fracture. Farrell DJ, et al. **J Foot Ankle Surg** 1996 Jan-Feb;35(1):54-8

Surgical treatment of congenital convex pes valgus. Yen CC, et al. **J Formos Med Assoc** 1997 Jun;96(6):424-8

Free gracilis muscle transfer for coverage of severe foot deformities [letter; comment] Sobel E, et al. **J Pediatr Orthop** 1996 May-Jun;16(3):388. Comment on: J Pediatr Orthop 1995 Sep-Oct;15(5):608-12.

Anatomic considerations of the foot and leg in tibial hemimelia. Turker R, et al. **J Pediatr Orthop** 1996 Jul-Aug;16(4):445-9

Arthrogrypotic joint contracture at the knee and the foot: correction with a circular frame. Brunner R, et al. **J Pediatr Orthop B** 1997 Jul;6(3):192-7

Hemimetatarsal transfer: a unique solution for postaxial metatarsal duplication. Ezra E, et al. **J Pediatr Orthop B** 1996 Summer;5(3):220-1

Extra digit at the dorsum of the foot: hypoplastic central ray metatarsal duplication. Fortems Y, et al. **J Pediatr Orthop B** 1996 Spring;5(2):132-3

THERAPY

Parent satisfaction comparing two bandage materials used during serial casting in infants. Coss HS, et al. **Foot Ankle Int** 1996 Aug;17(8):483-6

Metatarsus adductus and skewfoot. Greene WB. **Instr Course Lect** 1994;43:161-77 (66 ref.)

Rotational problems in children. Staheli LT. **Instr Course Lect** 1994;43:199-209 (91 ref.)

Longitudinal epiphyseal bracket: associated foot deformities with implications for treatment. Sobel E, et al. **J Am Podiatr Med Assoc** 1996 Apr;86(4):147-55 (23 ref.)

[Comparison of evaluation methods of the results of congenital clubfoot treatment] Ghanem I, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995;81(7):615-21 (Eng. Abstr.) **(Fre)**

FOOT DERMATOSES

Acral peeling skin syndrome [letter] Shwayder T, et al. **Arch Dermatol** 1997 Apr;133(4):535-6

Solitary painful piezogenic pedal papule. Graham BS, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):780-1

CHEMICALLY INDUCED

Chemotherapy-induced acral erythema due to Tegafur [letter] Bastida J, et al. **Acta Derm Venereol** 1997 Jan; 77(1):72-3

Palmar-plantar erythrodysaesthesia syndrome and other cutaneous side-effects after treatment with Tegafur [letter] Rios-Buceta L, et al. **Acta Derm Venereol** 1997 Jan; 77(1):80-1

Acute and painful erythema of the hands and feet. Acral erythema induced by chemotherapy. Revenga Arranz F, et al. **Arch Dermatol** 1997 Apr;133(4):499-500, 502-3

Hand involvement in allergic contact dermatitis from mercaptobenzothiazole in shoes. Lear JT, et al. **Contact Dermatitis** 1996 Jun;34(6):432

Pustular contact dermatitis from fluorine in an antirust solution. Stéciuk A, et al. **Contact Dermatitis** 1997 May; 36(5):276-7

Taxol-induced acral erythema. de Argila D, et al. **Dermatology** 1996;192(4):377-8

Hand-foot syndrome induced by high-dose, short-term, continuous 5-fluorouracil infusion. Chiara S, et al. **Eur J Cancer** 1997 May;33(6):967-9

Diagnosis in oncology. Hand-foot syndrome. Skarin A. **J Clin Oncol** 1997 Sep;15(9):3164

A case of bleomycin-induced scleroderma. Kim KH, et al. **J Korean Med Sci** 1996 Oct;11(5):454-6

COMPLICATIONS

The combined hammer toe-mallet toe deformity with associated double corns: a retrospective review. Oliver TP, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):263-8 (9 ref.)

Verrucosis of hands and feet in a patient with combined immune deficiency. Asadullah K, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):850-2

DIAGNOSIS

Evaluation and management of the interdigital corn: a literature review. Day RD, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):201-6 (9 ref.)

Papular-purpuric gloves-and-socks syndrome. Vargas-Díez E, et al. **Int J Dermatol** 1996 Sep;35(9):626-32 (25 ref.)

Dermatitis of the feet. Parkinson RW, et al. **Postgrad Med** 1997 Jun;101(6):95-8, 101-2, 107-10

[Erythema elevatum and diutinum in Crohn disease] Elsner J, et al. **Hautarzt** 1996 Sep;47(9):701-4 (Eng. Abstr.) **(Ger)**

[Diagnosis, clinical aspects and therapy of early chromoblastomycosis in a case example] Mayser P, et al. **Hautarzt** 1996 Sep;47(9):693-700 (Eng. Abstr.) **(Ger)**

[Fever, stomatitis, and cutaneous eruption on the hands and feet. "Gloves and socks" papular purpuric syndrome] Allegue F, et al. **Enferm Infecc Microbiol Clin** 1996 Apr; 14(4):271-2 **(Spa)**

[Delayed diagnosis of subungual melanoma. Two cases were misjudged as onychomycosis] Wallberg B, et al. **Lakartidningen** 1997 Jul 9;94(28-29):2543-4 **(Swe)**

DRUG THERAPY

Topical calcipotriol for treatment of inflammatory linear verrucous epidermal nevus. Zvulunov A, et al. **Arch Dermatol** 1997 May;133(5):567-8

A new method of intralesional bleomycin therapy in the treatment of recalcitrant warts. Munn SE, et al. **Br J Dermatol** 1996 Dec;135(6):969-71

Diphencyprone in the management of refractory palmoplantar and periungual warts: an open study. Rampen FH, et al. **Dermatology** 1996;193(3):236-8

Double-blind, randomized comparison of itraconazole capsules and placebo in onychomycosis of toenail. Jones HE, et al. **Int J Dermatol** 1996 Aug;35(8):589-90

Dermatography with bleomycin as a new treatment for verrucae vulgaris. van der Velden EM, et al. **Int J Dermatol** 1997 Feb;36(2):145-50

Itraconazole therapy is effective for pedal onychomycosis caused by some nondermatophyte molds and in mixed infection with dermatophytes and molds: a multicenter study with 36 patients. De Doncker PR, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):173-7

Treatment of chronic palmoplantar eczema with local bath-PUVA therapy. Schempp CM, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):733-7

Intermittent therapy with terbinafine for dermatophyte toe-onychomycosis: a new approach. Alpsoy E, et al. **J Dermatol** 1996 Apr;23(4):259-62

Bleomycin sulfate in the treatment of mosaic plantar verrucae [letter; comment] McAloon C. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):70-1. Comment on: J Foot Ankle Surg 1996 Mar-Apr;35(2):169-72.

ETIOLOGY

Shoe dermatitis. Freeman S. **Contact Dermatitis** 1997 May; 36(5):247-51

Footwear contact dermatitis in children. Roul S, et al. **Contact Dermatitis** 1996 Dec;35(6):334-6

Allergic contact dermatitis due to diethyl sebacate. Sasaki E, et al. **Contact Dermatitis** 1997 Mar;36(3):172

Gloves-and-socks syndrome in a patient with Epstein-Barr virus infection [letter] Drago F, et al. **Dermatology** 1997; 194(4):374

Bilateral rheumatoid nodule development on the distal region of the soles; poor blood circulation and local pressure as possible causes [letter] Horiuchi Y, et al. **J Dermatol** 1997 Apr;24(4):273-4

[Localized bilateral and symmetrical neurofibromatosis] Secchi T, et al. **Ann Dermatol Venereol** 1996;123(8):487-9 (Eng. Abstr.) **(Fre)**

["Gloves and socks" purpura syndrome caused by human parvovirus B19 (letter)] García-Bermejo, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):398-9 **(Spa)**

GENETICS

Isolated acral Darier's disease with haemorrhagic lesions in a kindred [letter] Regazzini R, et al. **Br J Dermatol** 1996 Sep;135(3):495-6

MICROBIOLOGY

Plantar infection by Scopulariopsis brevicaulis. Ginarte M, et al. **Dermatology** 1996;193(2):149-51

Localized cutaneous infection by Scedosporium prolificans (inflatum). Gillum PS, et al. **Int J Dermatol** 1997 Apr; 36(4):297-9

The identification of methicillin-resistant Staphylococcus aureus in Osler's nodes and Janeway lesions of acute bacterial endocarditis. Parikh SK, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):767-8

First European cases of onychomycosis caused by Onychocola canadensis. Koenig H, et al. **J Med Vet Mycol** 1997 Jan-Feb;35(1):71-2

Mycetoma due to Madurella grisea acquired in Mexico. Southern PM Jr. **Trop Doct** 1996 Oct;26(4):187-8

PARASITOLOGY

Tungiasis in New York. Mashek H, et al. **Int J Dermatol** 1997 Apr;36(4):276-8

A case of tungiasis. Lowry MA, et al. **Mil Med** 1996 Feb; 161(2):128-9

PATHOLOGY

Coexistence of subcutaneous sarcoidosis of the sole and scar sarcoidosis [letter] Ohi T, et al. **Acta Derm Venereol** 1996 Nov;76(6):500

Idiopathic palmoplantar hidradenitis. Buezo GF, et al. **Am J Dermatopathol** 1996 Aug;18(4):413-6

Pitted keratolysis: clinical manifestations in 53 cases. Takama H, et al. **Br J Dermatol** 1997 Aug;137(2):282-5

Bilateral plantar amyloidosis: a unique presentation of localized cutaneous amyloidosis. Helm TN, et al. **Cutis** 1997 Mar;59(3):142-4

Subcutaneous mucormycosis seen after gypsum fixation for bone fracture. Maeda M, et al. **Cutis** 1996 Mar;57(3):147-50

Basement membrane folds on plantar skin [letter] McGovern TW, et al. **Int J Dermatol** 1997 Jun;36(6):474-5

Reactive nodular mucinosis: a variant of cutaneous focal mucinosis? [letter] Yamamoto T, et al. **Int J Dermatol** 1996 Jan;35(1):73-4

Plantar granulomatous cutaneous T-cell lymphoma. Gibson GE, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):326-8 (13 ref.)

Two cases of intravascular papillary endothelial hyperplasia developing on the sole. Kato H. **J Dermatol** 1996 Sep; 23(9):655-7

Granulomatous pigmented purpuric dermatosis. Saito R, et al. **J Dermatol** 1996 Aug;23(8):551-5

Darier's disease with circumscribed plantar keratoderma [letter] Thappa DM, et al. **J Dermatol** 1996 Feb; 23(2):139-40

Eccrine angiomatous hamartoma: report of three patients. Smith C, et al. **Pediatr Dermatol** 1996 Mar-Apr; 13(2):139-42

PREVENTION & CONTROL

Influence of boot-sock systems on frequency and severity of foot blisters. Knapik JJ, et al. **Mil Med** 1996 Oct; 161(10):594-8

SURGERY

Evaluation and management of the interdigital corn: a literature review. Day RD, et al. **Clin Podiatr Med Surg** 1996 Apr;13(2):201-6 (9 ref.)

Flashlamp pulsed dye laser (585 nm). Treatment of resistant

FOOT DERMATOSES

verrucae. Borovoy MA, et al.
J Am Podiatr Med Assoc 1996 Nov;86(11):547–50

THERAPY

Painful piezogenic pedal papules: response to local electro–acupuncture. Woodrow SL, et al.
Br J Dermatol 1997 Apr;136(4):628–30

Chronic and aggressive plantar verrucae in a patient with HIV. Soltani SK, et al. **J Am Podiatr Med Assoc** 1996 Nov;86(11):555–8

VETERINARY

Rearing conditions and foot–pad dermatitis in Swedish turkey poults. Ekstrand C, et al. **Acta Vet Scand** 1997;38(2):167–74

Humoral response of dairy cattle to spirochetes isolated from papillomatous digital dermatitis lesions. Walker RL, et al. **Am J Vet Res** 1997 Jul;58(7):744–8

Ulcerative pododermatitis in free–ranging African elephant (Loxodonta africana) in the Kruger National Park. Keet DF, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):25–32

Rearing conditions and foot–pad dermatitis in Swedish broiler chickens. Ekstrand C, et al. **Prev Vet Med** 1997 Aug;31(3–4):167–74

Histological and bacteriological evaluation of digital dermatitis in cattle, with special reference to spirochaetes and Campylobacter faecalis. Döpfer D, et al. **Vet Rec** 1997 Jun 14;140(24):620–3

VIROLOGY

Immunohistochemical and virological study of skin in the papular–purpuric gloves and socks syndrome. Aractingi S, et al. **Br J Dermatol** 1996 Oct;135(4):599–602

FOOT DISEASES

Fortnightly review. Plantar fasciitis. Singh D, et al. **BMJ** 1997 Jul 19;315(7101):172–5 (27 ref.)

Infracalcaneal heel pain in the athlete. Agostinelli J, et al. **Clin Podiatr Med Surg** 1997 Jul;14(3):503–9 (14 ref.)

Necrotizing fasciitis. Harmonson JK, et al.
Clin Podiatr Med Surg 1996 Oct;13(4):635–46 (39 ref.)

Dermatologic problems in podiatric sports medicine. King MJ. **Clin Podiatr Med Surg** 1997 Jul;14(3):511–24 (9 ref.)

Diagnoses and interventions in podiatry. Zuijderduin WM, et al. **Disabil Rehabil** 1996 Jan;18(1):27–34

Chondroblastoma of the foot. Fink BR, et al.
Foot Ankle Int 1997 Apr;18(4):236–42 (19 ref.)

Aneurysmal bone cyst of the navicular: a case report and review of the literature. Fraipont MJ, et al.
Foot Ankle Int 1996 Nov;17(11):709–11 (30 ref.)

Chondromyxoid fibroma. Baron RL, et al.
J Am Podiatr Med Assoc 1996 May;86(5):212–6

Dermatofibrosarcoma protuberans of the hallux. Behfar KN, et al. **J Am Podiatr Med Assoc** 1996 Mar;86(3):126–8

Fibrosarcoma of the foot: a case presentation and review of the literature. Blume PA, et al. **J Foot Ankle Surg** 1997 Jan–Feb;36(1):51–4 (17 ref.)

Clear cell hidradenoma of the second digit: a review of the literature with case presentation. Feldman AH, et al.
J Foot Ankle Surg 1997 Jan–Feb;36(1):21–3 (7 ref.)

Melanoma of the foot in white South Africans. Hudson DA, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Dec; 30(4):315–9

[Apropos of "Necrotizing fasciitis of the foot" (letter; comment)] Sellah A.
Rev Chir Orthop Reparatrice Appar Mot 1995;81(7):643–4 . Comment on: Rev Chir Orthop Reparatrice Appar Mot 1994;80(6):551–4. **(Fre)**

CHEMICALLY INDUCED

Mitozantrone–induced onycholysis. A series of five cases. Creamer JD, et al. **Clin Exp Dermatol** 1995 Nov; 20(6):459–61

Effects of captopril and Icatibant on bradykinin (BK) and des [Arg9] BK in carrageenan–induced edema. Decarie A, et al. **Peptides** 1996;17(6):1009–15

COMPLICATIONS

A serendipitous observation regarding restless legs syndrome [letter; comment] McMahon JM. **Arch Intern Med** 1996 Nov 11;156(20):2386, 2390. Comment on: Arch Intern Med 1996 Feb 12;156(3):243–8.

Surgical correction of talipes equinovarus following foot and leg compartment syndrome. Dávid A, et al.
Foot Ankle Int 1996 Jun;17(6):334–9

Intraosseous gouty invasion of the talus. Raikin S, et al.
Foot Ankle Int 1997 Jul;18(7):439–42 (18 ref.)

Malignant melanoma and group G streptococci. A case report. Oberholtzer CS, et al. **J Am Podiatr Med Assoc** 1997 Sep;87(9):431–3

Bony anomalies in a patient with reticulate acropigmentation of Kitamura. el–Hoshy K, et al. **J Dermatol** 1996 Oct; 23(10):713–5

DIAGNOSIS

Efficacy of MR imaging in patients suspected of having Morton's neuroma. Zanetti M, et al.
AJR Am J Roentgenol 1997 Feb;168(2):529–32

Keratotic lesions of the foot. DeLauro TM.
Clin Podiatr Med Surg 1996 Jan;13(1):73–84 (9 ref.)

Diagnostic imaging of heel pain and plantar fasciitis. DiMarcangelo MT, et al. **Clin Podiatr Med Surg** 1997 Apr; 14(2):281–301 (47 ref.)

Morton's neuroma. Update on diagnosis and imaging. Mendicino SS, et al. **Clin Podiatr Med Surg** 1997 Apr; 14(2):303–11 (40 ref.)

MRI in the investigation of Morton's neuroma: which sequences? Williams JW, et al. **Clin Radiol** 1997 Jan; 52(1):46–9

MRI of the foot and ankle. Lucas P, et al.
Curr Probl Diagn Radiol 1997 Sep–Oct;26(5):209–66

Neural fibrolipoma of the foot: a case report. Donley BG, et al. **Foot Ankle Int** 1996 Nov;17(11):712–3 (8 ref.)

The calcaneus: applications of magnetic resonance imaging. Yu JS, et al. **Foot Ankle Int** 1996 Dec;17(12):771–80

Standard and high resolution magnetic resonance imaging of glomus tumors of toes and fingertips. Drapé JL, et al. **J Am Acad Dermatol** 1996 Oct;35(4):550–5

Imaging of digital neuromas. Baron RL, et al.
J Am Podiatr Med Assoc 1997 Aug;87(8):380–4

Bilateral large ankle lipomas [letter] Davis E, et al.
J Am Podiatr Med Assoc 1997 May;87(5):242–4

Cutaneous fibrous histiocytoma [letter] Derk FF, et al.
J Am Podiatr Med Assoc 1997 May;87(5):241–2

Proper digital neuroma of the fifth toe [letter] Feller SR, et al. **J Am Podiatr Med Assoc** 1996 Apr;86(4):187–8

Magnetic resonance imaging of the foot. Rheumatologic disorders mimicking osteomyelitis [published erratum appears in J Am Podiatr Med Assoc 1996 Jul;86(7):306] Jelinek J, et al. **J Am Podiatr Med Assoc** 1996 May; 86(5):228–31

Bilateral interosseous lipoma of the calcaneus [letter] Niemi WJ, et al. **J Am Podiatr Med Assoc** 1997 Apr;87(4):189–91

Rheumatoid nodules: MR/pathological correlation.
el–Noueam KI, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):796–9

Chondroblastoma of the calcaneus: literature review and case presentation. Blitch E, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):250–4

Myositis ossificans of the foot. De Maeseneer M, et al.
J Foot Ankle Surg 1997 Jul–Aug;36(4):290–3; discussion 331

Bronchogenic carcinoma mimicking paronychia and osteomyelitis in the great toe. Shepherd DM, et al.
J Foot Ankle Surg 1997 Mar–Apr;36(2):115–9

Intraosseous gout of the foot: an unusual case report. Surprenant MS, et al. **J Foot Ankle Surg** 1996 May–Jun; 35(3):237–43

Plantar fibromatosis of the heel in children: a report of 14 cases. Godette GA, et al. **J Pediatr Orthop** 1997 Jan–Feb; 17(1):16–7 (5 ref.)

Calcium pyrophosphate dihydrate deposition disease presenting as tumoral calcinosis (periarticular pseudogout). Luisiri P, et al. **J Rheumatol** 1996 Sep;23(9):1647–50 (18 ref.)

Fibrous hamartoma of infancy. German DS, et al.
Orthopedics 1996 Mar;19(3):258–60 (10 ref.)

Common foot problems. Burns S. **Prim Care** 1996 Jun; 23(2):203–14

How to examine a foot and what to do with a bunion. Nork SE, et al. **Prim Care** 1996 Jun;23(2):281–97

Osteomyelitis of the diabetic foot: MR imaging–pathologic correlation. Craig JG, et al. **Radiology** 1997 Jun; 203(3):849–55

Effects of foot and ankle MR imaging [letter; comment] Ehara S, et al. **Radiology** 1997 May;203(2):578–9. Comment on: Radiology 1996 Nov;201(2):515–7.

Fluoroscopically guided injections into the foot and ankle: localization of the source of pain as a guide to treatment--prospective study. Lucas PE, et al.
Radiology 1997 Aug;204(2):411–5

Angiomyoma of the lower extremity: MR findings. Kinoshita T, et al. **Skeletal Radiol** 1997 Jul;26(7):443–5

[Aponeurotomy and degenerative lesions of the plantar aponeurosis. Contribution of magnetic imaging] Jardé O, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(7):629–35 (Eng. Abstr.) **(Fre)**

[Tenography in tenosynoviopathies of the posterior tibial tendon] Jardé O, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(8):700–4 (Eng. Abstr.) **(Fre)**

[Synovial sarcoma of the foot] Beus J, et al.
Aktuelle Radiol 1996 Sep;6(5):261–3 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Compartment syndrome after isolated perfusion of the leg: a case report. Chan PS, et al. **Am J Orthop** 1997 May; 26(5):369–70 (7 ref.)

Cost–effectiveness of ampicillin/sulbactam versus imipenem/cilastatin in the treatment of limb–threatening foot infections in diabetic patients. McKinnon PS, et al. **Clin Infect Dis** 1997 Jan;24(1):57–63

The use of oral antibiotics in lower–extremity infections. Joseph WS, et al. **Clin Podiatr Med Surg** 1996 Oct; 13(4):683–99

Oral cimetidine and the treatment of verrucae [letter] Mahoney JM. **J Am Podiatr Med Assoc** 1996 Apr; 86(4):183–6

ETHNOLOGY

A foot risk classification system to predict diabetic amputation in Pima Indians. Mayfield JA, et al.
Diabetes Care 1996 Jul;19(7):704–9

ETIOLOGY

Sole haemorrhages in tied heifers in early gestation as an indicator of laminitis: effects of diet and flooring. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):375–81

Sole haemorrhages in tied primiparous cows as an indicator of periparturient laminitis: effects of diet, flooring and season. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):383–94

Sole haemorrhages and heel horn erosion in dairy cows: the influence of housing system on their prevalence and severity. Bergsten C, et al. **Acta Vet Scand** 1996; 37(4):395–408

Repetitive strain injury to the foot in elite women kendoka. Nunn NR, et al. **Br J Sports Med** 1997 Mar;31(1):68–9

Foot and ankle issues in rheumatoid arthritis. Marks RM, et al. **Bull Rheum Dis** 1997 Aug;46(5):1–3

A prospective study of Plantar fasciitis in Harare. Chigwanda PC. **Cent Afr J Med** 1997 Jan;43(1):23–5

Blood vessels of the sinus tarsi and the sinus tarsi syndrome. Schwarzenbach B, et al. **Clin Anat** 1997;10(3):173–82

A patient with classical Kaposi's sarcoma and angiosarcoma: bad luck or a common aetiology? Steiner MC, et al.
Clin Oncol (R Coll Radiol) 1997;9(3):186–8

Foot problems in the diabetic transplant recipient. Kalker AJ, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):503–10

Calcaneal osteomyelitis caused by nail puncture wounds. Laughlin RT, et al. **Foot Ankle Int** 1997 Sep;18(9):575–7

Development of foot–drop after recovery from chickenpox. Ekambaram V. **Indian J Lepr** 1997 Apr–Jun;69(2):189–90

Bilateral foot–drop in a patient with anorexia nervosa. Kershenbaum A, et al. **Int J Eat Disord** 1997 Nov; 22(3):335–7

Spinal stenosis. A common cause of podiatric symptoms. Goldman SM, et al. **J Am Podiatr Med Assoc** 1997 Mar; 87(3):117–24

Sickle cell myonecrosis involving the plantar musculature. Groves J, et al. **J Am Podiatr Med Assoc** 1997 Aug; 87(8):384–8

Malignancy and pedal gangrene [letter] Pacheco NM, et al.
J Am Podiatr Med Assoc 1996 Nov;86(11):564–6

Drop foot as a complication of acupuncture injury and intragluteal injection. Sobel E, et al.
J Am Podiatr Med Assoc 1997 Feb;87(2):52–9

Adenocarcinoma of the lung with metatarsal metastasis. Kemnitz MJ, et al. **J Foot Ankle Surg** 1996 May–Jun; 35(3):210–2

Squamous cell carcinoma of the foot arising in chronic ulcers in leprosy patients. Soares D, et al. **Lepr Rev** 1996 Dec; 67(4):325–9

Unilateral foot drop. Lath R, et al. **Postgrad Med J** 1996 Sep;72(851):573–4

[A rare entity: intraosseous synovial cyst of the calcaneus] Mestdagh H, et al.
Rev Chir Orthop Reparatrice Appar Mot 1997;83(3):274–7 (Eng. Abstr.) **(Fre)**

HISTORY

Stabilizing operations on the foot: a study of the indications, techniques used, and end results. 1950 [classical article] Patterson RL Jr, et al. **Foot Ankle Int** 1996 Oct; 17(10):594–607

METABOLISM

Inflammation increases the distribution of dorsal horn neurons that internalize the neurokinin–1 receptor in response to noxious and non–noxious stimulation. Abbadie C, et al. **J Neurosci** 1997 Oct 15;17(20):8049–60

MICROBIOLOGY

Atypical eumycetoma caused by Phialophora parasitica successfully treated with itraconazole and flucytosine. Hood SV, et al. **Br J Dermatol** 1997 Jun;136(6):953–6

Prosthetic joint infection caused by Tropheryma whippelii (Whipple's bacillus). Frésard A, et al. **Clin Infect Dis** 1996 Mar;22(3):575–6

Cost–effectiveness of ampicillin/sulbactam versus imipenem/cilastatin in the treatment of limb–threatening foot infections in diabetic patients. McKinnon PS, et al. **Clin Infect Dis** 1997 Jan;24(1):57–63

Recurrent episodes of spontaneous clostridial myonecrosis related to colorectal carcinoma. Miguélez M, et al.
Clin Infect Dis 1996 Mar;22(3):582–3

Granulomatous Pneumocystis carinii myositis presenting as an intramuscular mass. Pearl GS, et al. **Clin Infect Dis** 1996 Mar;22(3):577–8

Blastomycosis in children [see comments] Schutze GE, et al. **Clin Infect Dis** 1996 Mar;22(3):496–502. Comment in: Clin Infect Dis 1996 Oct;23(4):853–4.

Cellulitis due to catalase–negative Staphylococcus aureus [letter] Al–Awagi A, et al. **Infection** 1996 Jan–Feb;24(1):54

A fresh water pathogen and its pedal manifestations [letter] Albreski DA, et al. **J Am Podiatr Med Assoc** 1996 Mar; 86(3):135–7

Actinomycosis of the foot. Vogen KW.
J Am Podiatr Med Assoc 1996 May;86(5):238–40

Unicameral bone cyst. An unusual complication. Yoho RM, et al. **J Am Podiatr Med Assoc** 1996 May;86(5):236–8

Subcutaneous phaeohyphomycosis: overview and case

report. Hurley MA, et al. **J Foot Ankle Surg** 1997 May–Jun; 36(3):230–5

Necrotizing fasciitis of the foot caused by an unusual organism, Vibrio vulnificus. Yip KM, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):222–4

Periodic fever and skin lesions caused by disseminated Mycobacterium chelonae infection in an immunocompetent child. Ryan ME, et al. **Pediatr Infect Dis J** 1996 Mar; 15(3):270–2

[Cellulitis and lymphangitis caused by Staphylococcus lugdunensis (letter)] Gómez–Rodríguez N, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):457 **(Spa)**

NURSING

Clinical snapshot: plantar fasciitis. Campbell–Giovaniello KJ. **Am J Nurs** 1997 Sep;97(9):38–9

PARASITOLOGY

Aggressive hydatid disease of the foot and ankle. Akyar GS, et al. **Australas Radiol** 1997 Feb;41(1):41–3

PATHOLOGY

Non–pigmented nodular plantar melanoma in 12 Japanese patients. Kato T, et al. **Br J Dermatol** 1997 Feb; 136(2):207–11

Soft tissue mass in the foot of a 39–year–old woman [clinical conference] Johnston JO, et al. **Clin Orthop** 1997 May; (338):271–4, 288

Primary and metastatic malignant tumors in soft tissue of skin. Diagnostic, surgical, and prognostic considerations for the foot. Potter GK, et al. **Clin Podiatr Med Surg** 1996 Jan;13(1):155–72 (85 ref.)

Clinicopathological study of acral melanoma in situ in 44 Japanese patients. Kato T, et al. **Dermatology** 1996; 193(3):192–7

Porokeratotic eccrine ostial and dermal duct nevus of late onset: more frequent than previously suggested? Valks R, et al. **Dermatology** 1996;193(2):138–40 (17 ref.)

Hypertrophic pulmonary osteoarthropathy in pulmonary metastasis—a case report. Aderaye G. **Ethiop Med J** 1996 Oct;34(4):251–4 (13 ref.)

Myositis ossificans: an unusual presentation in the foot. Allard MM, et al. **Foot Ankle Int** 1997 Jan;18(1):39–42 (26 ref.)

Recurring desmoid tumor of the foot: a case study [letter; comment] Callahan DJ. **Foot Ankle Int** 1997 May;18(5):314 . Comment on: Foot Ankle Int 1996 Apr;17(4):221–5.

Subungual exostosis of the foot. de Palma L, et al. **Foot Ankle Int** 1996 Dec;17(12):758–63

Intraosseous lipoma of the calcaneus. Greenspan A, et al. **Foot Ankle Int** 1997 Jan;18(1):53–6 (26 ref.)

Dorsal neuroma of the feet: a case report. Samimi S, et al. **Foot Ankle Int** 1996 Jul;17(7):417–9

Eccrine syringofibroadenoma surrounding a squamous cell carcinoma: a case report. Lele SM, et al. **J Cutan Pathol** 1997 Mar;24(3):193–6

Intravascular fasciitis in the foot. Sticha RS, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):95–9 (9 ref.)

Metastasis from carcinoma of breast masquerading as chilblains. Tan BB, et al. **J R Soc Med** 1997 Mar;90(3):162

Multifocal plasmacytoma of hand and foot bones. Antonijevic N, et al. **Leuk Lymphoma** 1996 May;21(5–6):505–7

Reactive bone and cartilage forming processes of the hands and feet [letter] Ishida T, et al. **Pathol Int** 1995 Dec; 45(12):975–6

Immunohistochemical expression of type VI collagen in superficial fibromatoses. Magro G, et al. **Pathol Res Pract** 1995 Oct;191(10):1023–8

Amelanotic Spitzoid melanoma in the burn scar of a child. Ghorbani Z, et al. **Pediatr Dermatol** 1996 Jul–Aug; 13(4):285–7

Unilateral foot drop. Lath R, et al. **Postgrad Med J** 1996 Sep;72(851):573–4

[Squamous cell carcinoma in neuropathic plantar ulcers in leprosy: another example of Marjolin's ulcer] Schoeman BJ. **S Afr Med J** 1996 Aug;86(8):966–9 (Eng. Abstr.) **(Dut)**

PHYSIOPATHOLOGY

Effect of cutting the plantar fascia on mechanical properties of the foot. Arangio GA, et al. **Clin Orthop** 1997 Jun; (339):227–31

Hallux limitus in the athlete. Lichniak JE. **Clin Podiatr Med Surg** 1997 Jul;14(3):407–26 (24 ref.)

Foot and ankle considerations in golf. Pietrocarlo TA. **Clin Sports Med** 1996 Jan;15(1):129–46 (18 ref.)

Foot pathology and risk factors for diabetic foot disease in elderly men. Bresäter LE, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1–2):103–9

PREVENTION & CONTROL

Intermittent pneumatic pedal compression and edema resolution after acute ankle fracture: a prospective, randomized study. Thordarson DB, et al. **Foot Ankle Int** 1997 Jun;18(6):347–50

Foot care: an innovative nursing service in a community nursing center. Westley CJ, et al. **J Community Health Nurs** 1997;14(1):15–21

RADIOGRAPHY

Radiographs in heel pain [letter; comment] Devitt N. **Bull Rheum Dis** 1997 Apr;46(2):1. Comment on: Bull Rheum Dis 1996 Jun;45(4):1–3.

Clinics in diagnostic imaging (26). Madura foot (or mycetoma). Corr P. **Singapore Med J** 1997 Jun;38(6):268–9

[Bone lesions due to endemic African Kaposi sarcoma: a case report] Simon F, et al. **Med Trop (Mars)** 1997;57(2):174–6 (Eng. Abstr.) **(Fre)**

[What is your diagnosis? Calcaneo–navicular coalition] Keller N. **Schweiz Rundsch Med Prax** 1996 Sep 10;85(37):1099–101 **(Ger)**

RADIONUCLIDE IMAGING

Diagnosis of pedal osteomyelitis with Tc–99m HMPAO labeled leukocytes. Blume PA, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):120–6; discussion 160

RADIOTHERAPY

Human melanoma treated by boron neutron capture therapy: comparison of the clinical response with the predicted response. Hiratsuka J, et al. **Radiat Med** 1996 Sep–Oct; 14(5):257–63

SURGERY

Minor amputations on the feet after revascularization for gangrene. A consecutive series of 95 limbs. Albrektsen SB, et al. **Acta Orthop Scand** 1997 Jun;68(3):291–3

Postoperative analgesia after peripheral nerve block for podiatric surgery: clinical efficacy and chemical stability of lidocaine alone versus lidocaine plus clonidine. Reinhart DJ, et al. **Anesth Analg** 1996 Oct;83(4):760–5

Multiple benign schwannomas of the foot. von Deimling U, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):240–2

Long–term results of weight–bearing foot reconstruction with non–innervated and reinnervated free flaps. Potparić Z, et al. **Br J Plast Surg** 1997 Apr;50(3):176–81

Effect of cutting the plantar fascia on mechanical properties of the foot. Arangio GA, et al. **Clin Orthop** 1997 Jun; (339):227–31

Fibrosarcoma of the toe: a destructive lesion of the distal phalanx. Inoue A, et al. **Clin Orthop** 1996 Dec;(333):239–44

Plantar fibromatosis: treatment of primary and recurrent lesions and factors associated with recurrence. Aluisio FV, et al. **Foot Ankle Int** 1996 Nov;17(11):672–8

Clinical results of simultaneous adjacent interdigital neurectomy in the foot [letter; comment] Brahms MA. **Foot Ankle Int** 1996 Sep;17(9):583. Comment on: Foot Ankle Int 1996 May;17(5):264–8.

Centrocentral anastomosis with autologous nerve graft treatment of foot and ankle neuromas. Lidor C, et al. **Foot Ankle Int** 1996 Feb;17(2):85–8

Unstable equilibrium [editorial] Lutter LD. **Foot Ankle Int** 1997 Sep;18(9):533–4

Pseudoaneurysm with an arteriovenous fistula of the tibial vessels after plantar fasciotomy: a case report. Nierenberg G, et al. **Foot Ankle Int** 1997 Aug;18(8):524–5

Treatment of Morton's neuroma by neurolysis. Okafor B, et al. **Foot Ankle Int** 1997 May;18(5):284–7

Surgical treatment of recalcitrant plantar fasciitis. Sammarco GJ, et al. **Foot Ankle Int** 1996 Sep;17(9):520–6

Glomus tumours of the hand and foot. Sun BG, et al. **Int Orthop** 1996;20(6):339–41

Tumoral calcinosis of the plantar forefoot: a case study. Boc SF, et al. **J Am Podiatr Med Assoc** 1996 Feb;86(2):99–103

Dermatofibrosarcoma protuberans. Salvaging quality of life using two approaches to treatment. Gurevitch D, et al. **J Am Podiatr Med Assoc** 1996 Sep;86(9):439–46

Soft tissue surgery using radiowave techniques. Hettinger DF. **J Am Podiatr Med Assoc** 1997 Mar;87(3):131–5

Digital occurrence of nodular malignant melanoma. Knedgen JF, et al. **J Am Podiatr Med Assoc** 1997 Apr;87(4):178–82

Deep venous thrombosis. The dilemma of diagnosis. Servatjoo P. **J Am Podiatr Med Assoc** 1997 May; 87(5):224–32 (24 ref.)

Graft–enhanced arthrodesis. Catanzariti AR. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):463–73 (31 ref.)

Biwinged excision for round pedal lesions. Dayton PD, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):244–9

Cryogenic denervation of the intermetatarsal space neuroma. Hodor L, et al. **J Foot Ankle Surg** 1997 Jul–Aug; 36(4):311–4

Uses of Grafton for reconstructive foot and ankle surgery. Kado KE, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):59–66

Asymmetric "V" osteotomy: a predictable surgical approach for chronic central metatarsalgia. Lauf E, et al. **J Foot Ankle Surg** 1996 Nov–Dec;35(6):550–9; discussion 601

Bone grafting in the surgical management of osseous neoplasms. Leonheart EE, et al. **J Foot Ankle Surg** 1996 Sep–Oct;35(5):391–5

Rupture of the plantar fascia. Pai VS. **J Foot Ankle Surg** 1996 Jan–Feb;35(1):39–40

Coralline hydroxyapatite: a bone graft alternative in foot and ankle surgery. Rahimi F, et al. **J Foot Ankle Surg** 1997 May–Jun;36(3):192–203; discussion 255–6 (27 ref.)

The use of the Synthes 7.3–mm. cannulated screw in rearfoot and ankle surgery: a preliminary prospective study. Rockett MS, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):87–94; discussion 159

Grand rounds: sports medicine. Saxena A, et al. **J Foot Ankle Surg** 1996 Nov–Dec;35(6):595–9

Early clinical results of the use of radiofrequency lesioning in the treatment of plantar fasciitis. Sollitto RJ, et al. **J Foot Ankle Surg** 1997 May–Jun;36(3):215–9; discussion 256

Outcome of treatment for pediatric sarcoma of the foot: a retrospective review over a 20–year period. Gross E, et al. **J Pediatr Surg** 1997 Aug;32(8):1181–4

Surgery of Morton's neuroma: dorsal or plantar approach? Nashi M, et al. **J R Coll Surg Edinb** 1997 Feb;42(1):36–7

THERAPY

Plantar fasciitis: a prospective randomized clinical trial of the tension night splint. Batt ME, et al. **Clin J Sport Med** 1996 Jul;6(3):158–62

Diagnosis, pathophysiology, and treatment of plantar verruca. Landsman MJ, et al. **Clin Podiatr Med Surg** 1996 Jan;13(1):55–71 (39 ref.)

Management of Morton's neuroma in athletes. Nunan PJ, et al. **Clin Podiatr Med Surg** 1997 Jul;14(3):489–501 (21 ref.)

Outcome of nonsurgical treatment for plantar fasciitis [published erratum appears in Foot Ankle Int 1996 Nov;17(11):722] Gill LH, et al. **Foot Ankle Int** 1996 Sep; 17(9):527–32

Footwear prescriptions. Janisse DJ. **Foot Ankle Int** 1997 Aug; 18(8):526–7

Material selection for foot orthoses. Marzano R. **Foot Ankle Int** 1997 Jul;18(7):455

Treatment of plantar fasciitis with a night splint and shoe modification consisting of a steel shank and anterior rocker bottom [see comments] Mizel MS, et al. **Foot Ankle Int** 1996 Dec;17(12):732–5. Comment in: Foot Ankle Int 1997 Jul;18(7):458.

Treatment of plantar fasciitis with night splint and shoe modifications consisting of a steel shank and anterior rocker bottom [letter; comment] Ng A. **Foot Ankle Int** 1997 Jul; 18(7):458. Comment on: Foot Ankle Int 1996 Dec;17(12):732–5.

The malodorous foot. Pedowitz WJ. **Foot Ankle Int** 1996 Jan;17(1):54–5

Fastest reduction of posttraumatic edema: continuous cryotherapy or intermittent impulse compression? Stöckle U, et al. **Foot Ankle Int** 1997 Jul;18(7):432–8

Acute calcification of the peroneal tendons in a sheep shearer. Williams CR. **Foot Ankle Int** 1996 Jan;17(1):49–50

Wax therapy for dry feet in leprosy [see comments] Mahajan PM, et al. **Indian J Lepr** 1995 Oct–Dec;67(4):383–8. Comment in: Indian J Lepr 1996 Oct–Dec;68(4):374–5.

Wax therapy for dry feet in leprosy [letter; comment] Premkumar R, et al. **Indian J Lepr** 1996 Oct–Dec; 68(4):374–5. Comment on: Indian J Lepr 1995 Oct–Dec;67(4):383–8.

Podiatry in the 1996 Summer Olympic Games. Julien PH. **J Am Podiatr Med Assoc** 1997 Sep;87(9):425–30

Common foot problems. Burns S. **Prim Care** 1996 Jun; 23(2):203–14

ULTRASONOGRAPHY

Ultrasonographic imaging of mycetoma. Fahal AH, et al. **Br J Surg** 1997 Aug;84(8):1120–2

Plantar fasciitis: sonographic evaluation [see comments] Cardinal E, et al. **Radiology** 1996 Oct;201(1):257–9. Comment in: Radiology 1997 Apr;203(1):290.

Plantar fasciitis: US evaluation [letter; comment] Gibbon W, et al. **Radiology** 1997 Apr;203(1):290. Comment on: Radiology 1996 Oct;201(1):257–9.

VETERINARY

Sole haemorrhages and heel horn erosion in dairy cows: the influence of housing system on their prevalence and severity. Bergsten C, et al. **Acta Vet Scand** 1996; 37(4):395–408

Sole haemorrhages in tied primiparous cows as an indicator of periparturient laminitis: effects of diet, flooring and season. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):383–94

Sole haemorrhages in tied heifers in early gestation as an indicator of laminitis: effects of diet and flooring. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):375–81

Primary intraosseous mast cell tumour of the third phalanx in a quarter horse. Ritmeester AM, et al. **Equine Vet J** 1997 Mar;29(2):151–2

Glyceryl trinitrate enhances nitric oxide mediated perfusion within the equine hoof. Hinckley KA, et al. **J Endocrinol** 1996 Nov;151(2):R1–8

Incidence and risk factors for bumblefoot (pododermatitis) in rehabilitated raptors. Rodriguez–Lainz AJ, et al. **Prev Vet Med** 1997 Aug;31(3–4):175–84

Treatment of a keratoma in a Clydesdale horse. Chan CC, et al. **Vet Rec** 1997 Apr 26;140(17):453–6

VIROLOGY

Demonstration of herpes virus 8 in a lymphangioma–like Kaposi's sarcoma occurring in a non–immunosuppressed patient [letter] Noël JC, et al. **Dermatology** 1997;194(1):90–1

FOOT INJURIES

Prophylaxis in lower-extremity infectious diseases. Joseph WS, et al. **Clin Podiatr Med Surg** 1996 Oct;13(4):647–60 (41 ref.)
Lower leg, foot, and ankle injuries in young athletes. Stanish WD. **Clin Podiatr Med Surg** 1997 Jul;14(3):559–78 (71 ref.)
Malodorous wounds [letter; comment] Toolis F. **Lancet** 1996 Dec 21–28;348(9043):1737. Comment on: Lancet 1996 Nov 9;348(9037):1282.

CLASSIFICATION

Foot and ankle severity scale (FASS). Manoli A 2nd, et al. **Foot Ankle Int** 1997 Sep;18(9):598–602
Distribution of pedal burns by source and depth. Schoen NS, et al. **J Foot Ankle Surg** 1996 May–Jun;35(3):194–8

COMPLICATIONS

"Complex regional pain syndrome" after trauma from high-heeled shoe [letter] Engelhart M, et al. **Acta Derm Venereol** 1997 Jul;77(4):331–2
The distally based islanded dorsal foot flap. Bharathwaj VS, et al. **Br J Plast Surg** 1997 Jun;50(4):284–7
Mycobacterium abscessus osteomyelitis following a plantar puncture wound. Meredith FT, et al. **Clin Infect Dis** 1996 Sep;23(3):651–3
Puncture wound related pseudomonas infections of the foot in children. Niall DM, et al. **Ir J Med Sci** 1997 Apr–Jun; 166(2):98–101
Plantar puncture wounds: a survey to determine the incidence of infection. Weber EJ. **J Accid Emerg Med** 1996 Jul;13(4):274–7
Surgical morbidity and the risk of amputation due to infected puncture wounds in diabetic versus nondiabetic adults. Armstrong DG, et al. **J Am Podiatr Med Assoc** 1997 Jul; 87(7):321–6
Tear of the plantar calcaneonavicular (spring) ligament causing flatfoot. A case report. Borton DC, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):641–3
Unconsciousness following snake bite envenomation [letter] Kumar PD, et al. **J Indian Med Assoc** 1995 Oct; 93(10):397–8
Bone marrow edema caused by altered pedal biomechanics. Yochum TR, et al. **J Manipulative Physiol Ther** 1997 Jan; 20(1):56–9
Reflex sympathetic dystrophy in an 8-year-old: successful treatment by physical therapy. Hood-White R, et al. **Orthopedics** 1997 Jan;20(1):73–4
Pseudomonas osteomyelitis after a plantar puncture wound through a rubber sandal. Saha P, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):710–1
Painless stress fractures in diabetic neuropathic feet. Gill G, et al. **Postgrad Med J** 1997 Apr;73(858):241–2
Soft tissue and bone infections from puncture wounds in children. Laughlin TJ, et al. **West J Med** 1997 Feb; 166(2):126–8
[Pyogenic osteomyelitis after a plantar puncture wound: analysis of a series of 8 cases] Morales M, et al. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):479–82 (17 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Case report: Weever fish sting—an unusual cause of foot pain. Mulcahy DM, et al. **Ir J Med Sci** 1996 Jul–Sep;165(3):153–4
Bilateral stress fractures of the tarsal navicular with associated avascular necrosis in a pole vaulter. Helstad PE, et al. **J Am Podiatr Med Assoc** 1996 Nov;86(11):551–4
Plantar fascia rupture: diagnosis and treatment. Rolf C, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):112–4 (13 ref.)
Plantar ecchymosis sign: a clinical aid to diagnosis of occult Lisfranc tarsometatarsal injuries. Ross G, et al. **J Orthop Trauma** 1996;10(2):119–22
Fluoroscopically guided injections into the foot and ankle: localization of the source of pain as a guide to treatment—prospective study. Lucas PE, et al. **Radiology** 1997 Aug;204(2):411–5
MR diagnosis of traumatic tear of the spring ligament in a pole vaulter. Chen JP, et al. **Skeletal Radiol** 1997 May; 26(5):310–2
[Aponeurotomy and degenerative lesions of the plantar aponeurosis. Contribution of magnetic imaging] Jardé O, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(7):629–35 (Eng. Abstr.) **(Fre)**
[Gait analysis after intra-articular calcaneus fractures] Siegmeth A, et al. **Unfallchirurg** 1996 Jan;99(1):52–8 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Treatment of plantar fasciitis by iontophoresis of 0.4% dexamethasone. A randomized, double-blind, placebo-controlled study. Gudeman SD, et al. **Am J Sports Med** 1997 May–Jun;25(3):312–6
Infections complicating lawn mower injuries in children. Gaglani MJ, et al. **Pediatr Infect Dis J** 1996 May; 15(5):452–5 (22 ref.)

EPIDEMIOLOGY

Foot-ankle injuries: influence of crash location, seating position and age. Parenteau CS, et al. **Accid Anal Prev** 1996 Sep;28(5):607–17
Predictors of ankle and foot fractures in older women. The Study of Osteoporotic Fractures Research Group. Seeley DG, et al. **J Bone Miner Res** 1996 Sep;11(9):1347–55

ETIOLOGY

Full-thickness foot burn of a pilgrim to Mecca. Fried M, et al. **Burns** 1996 Dec;22(8):644–5
Severe malformation of one foot from amniocentesis needle injury. Holmes LB. **Clin Dysmorphol** 1997 Jul;6(3):273–9; discussion 279–80
Overuse foot and ankle injuries in ballet. Denton J. **Clin Podiatr Med Surg** 1997 Jul;14(3):525–32 (7 ref.)
Healing rates of diabetic foot ulcers associated with midfoot fracture due to Charcot's arthropathy. Lavery LA, et al. **Diabet Med** 1997 Jan;14(1):46–9
Nerve injury and repair in the foot and ankle. Santi MD, et al. **Foot Ankle Int** 1996 Jul;17(7):425–39 (108 ref.)
Fire walking in Singapore: a profile of the burn patient. Sayampanathan SR, et al. **J R Coll Surg Edinb** 1997 Apr; 42(2):131–4
Injury to diabetic feet by thumb tacks [letter] Teelucksingh S, et al. **Lancet** 1997 Jul 5;350(9070):74
Walking aches and running pains. Injuries of the foot and ankle. Gellman R, et al. **Prim Care** 1996 Jun;23(2):263–80
[Injuries caused by motorized lawn mowers—hand injuries the most common ones] Alm P, et al. **Nord Med** 1996 Sep; 111(7):222–4 (Eng. Abstr.) **(Swe)**

MICROBIOLOGY

Infections complicating lawn mower injuries in children. Gaglani MJ, et al. **Pediatr Infect Dis J** 1996 May; 15(5):452–5 (22 ref.)

PATHOLOGY

[The forensic medical evaluation of independent foot injuries and the establishment of expert versions of their origins] Kulikov SN. **Sud Med Ekspert** 1996 Oct–Dec;39(4):12–3 **(Rus)**

PHYSIOPATHOLOGY

Regeneration of tactile lamellar corpuscles of the rat after postnatal freeze injury. Jirmanová I, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):363–74
[Pronation angle of the rear foot during running in relation to load] Fromme A, et al. **Sportverletz Sportschaden** 1997 Jun;11(2):52–7 (Eng. Abstr.) **(Ger)**
[Functional deficits of the foot after calcaneus fracture] Rosenbaum D, et al. **Sportverletz Sportschaden** 1996 Jun; 10(2):32–7 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

The bicycle spoke injury: an avoidable accident? D'Souza LG, et al. **Foot Ankle Int** 1996 Mar;17(3):170–3
Educating workers on the need for a firm, safe footing. Johnson LF. **Occup Health Saf** 1997 Jul;66(7):20–7, 36 (0 ref.)

RADIOGRAPHY

Implementation of the Ottawa ankle rules in France. A multicenter randomized controlled trial [see comments] Auleley GR, et al. **JAMA** 1997 Jun 25;277(24):1935–9. Comment in: JAMA 1997 Jun 25;277(24):1977–8.
An unusual foreign body: catfish spine. Baker DH. **Pediatr Radiol** 1997 Jul;27(7):585
Challenging fractures of the foot and ankle. Prokuski LJ, et al. **Radiol Clin North Am** 1997 May;35(3):655–70 (33 ref.)
Fractures of the hands and feet in child abuse: imaging and pathologic features. Nimkin K, et al. **Radiology** 1997 Apr; 203(1):233–6

REHABILITATION

Maintenance of aerobic capacity during recovery from right foot Jones fracture: a case report. Frangolias DD, et al. **Clin J Sport Med** 1997 Jan;7(1):54–7; discussion 57–8 (16 ref.)
Rehabilitation of foot and ankle injuries. Losito JM, et al. **Clin Podiatr Med Surg** 1997 Jul;14(3):533–57 (39 ref.)

SURGERY

Chronic traumatic wounds of the leg. Pros Z, et al. **Acta Chir Plast** 1996;38(3):83–6
Reconstruction of posttraumatic defects of the foot by flow-through anterolateral or anteromedial thigh flaps with preservation of posterior tibial vessels. Ao M, et al. **Ann Plast Surg** 1997 Jun;38(6):598–603
Musculofascial flaps based on the dorsalis pedis vascular pedicle for coverage of the foot and ankle. Gibstein LA, et al. **Ann Plast Surg** 1996 Aug;37(2):152–7
Distal foot coverage with a reverse dorsalis pedis flap [letter; comment] Karacaoglan N. **Ann Plast Surg** 1996 Feb; 36(2):224. Comment on: Ann Plast Surg 1995 Feb;34(2):191–6.
Anatomic design of a sensate plantar flap. Narsete TA. **Ann Plast Surg** 1997 May;38(5):538–9
Reverse first dorsal metatarsal artery adipofascial flap [see comments] Senyuva C, et al. **Ann Plast Surg** 1996 Feb; 36(2):158–61. Comment in: Ann Plast Surg 1996 Oct;37(4):453–4.
Re: Scarpa's adipofascial flap for repair of wide scalp defects [letter; comment] Southern S, et al. **Ann Plast Surg** 1996 Sep;37(3):343–4. Comment on: Ann Plast Surg 1996 Jan;36(1):88–92.
Long-term results of weight-bearing foot reconstruction with non-innervated and reinnervated free flaps. Potparić Z, et al. **Br J Plast Surg** 1997 Apr;50(3):176–81
Radial free flaps in plantar burns. Fernandez-Palacios J, et al. **Burns** 1996 May;22(3):242–5
Arthroscopy of the foot and ankle in the athlete. Cooper PS, et al. **Clin Sports Med** 1996 Oct;15(4):805–24 (68 ref.)
Escalator injuries in Genevan children: a report of 6 cases. Quinodoz P, et al. **Eur J Pediatr Surg** 1996 Aug;6(4):225–7
Nerve injury and repair in the foot and ankle. Santi MD, et al. **Foot Ankle Int** 1996 Jul;17(7):425–39 (108 ref.)
Technical factors in hindfoot arthrodesis. Manoli A 2nd, et al. **Instr Course Lect** 1997;46:347–56 (23 ref.)
Lisfranc fracture-dislocation in a windsurfer [letter] Roukis TS, et al. **J Am Podiatr Med Assoc** 1996 Nov;86(11):566–8
The influence of subtalar and triple arthrodesis on the tibiotalar joint. A long-term follow-up study. de Heus JA, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):644–7
Acute exertional compartment syndrome of the medial foot. Blackledge DK, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):19–22
Surgical management of the acute calcaneal joint depression fracture: the VAMC Miami experience. Cohen M. **J Foot Ankle Surg** 1996 Jan–Feb;35(1):2–12 (32 ref.)
Uses of Grafton for reconstructive foot and ankle surgery. Kado KE, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):59–66
The use of bone grafts in the management of nonunions. Mendicino SS, et al. **J Foot Ankle Surg** 1996 Sep–Oct; 35(5):452–7 (23 ref.)
Moving car-tire injuries of the foot: reconstruction with microvascular free flaps. Nuzumlali E, et al. **J Reconstr Microsurg** 1996 Jul;12(5):297–302
Successful revascularization of a toe-avulsion injury in a three-year-old child, using a digital artery transfer. Schwentker AR, et al. **J Reconstr Microsurg** 1996 Aug; 12(6):349–53
Complete cuboid dislocation. Littlejohn SG, et al. **Orthopedics** 1996 Feb;19(2):175–6
Classification and reconstructive options in foot plantar skin avulsion injuries. Jeng SF, et al. **Plast Reconstr Surg** 1997 May;99(6):1695–703; discussion 1704–5
Distally based sural island flap for foot and ankle reconstruction. Jeng SF, et al. **Plast Reconstr Surg** 1997 Mar;99(3):744–50
Reconstruction of a complex defect on the foot with an osteotendofasciocutaneous lateral arm free flap. Case report. Moshammer HE, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):271–3
The bipedicled flap on the lower leg, a valuable old method? Its indications and limitations in 12 cases. Schwabegger A, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):187–93
An unusual lawn mower injury. Logar M, et al. **Unfallchirurg** 1996 Feb;99(2):152–3
[External fixation in the foot and distal portion of the leg] Kameníček V. **Rozhl Chir** 1997 May;76(5):239–41 (Eng. Abstr.) **(Cze)**
[Spontaneous liver rupture after thrombolytic therapy with streptokinase] Hinterthaner M, et al. **Zentralbl Chir** 1997; 122(1):49–51 (20 ref.) (Eng. Abstr.) **(Ger)**
[Case report on management of grade 4 infected open comminuted tarsus fracture by tibio-Chopart arthrodesis] Klauss R, et al. **Zentralbl Chir** 1996;121(11):1000–4 (Eng. Abstr.) **(Ger)**

THERAPY

Primary care of foot and ankle injuries in the athlete. Clanton TO, et al. **Clin Sports Med** 1997 Jul;16(3):435–66 (71 ref.)
Catfish spine injury of the foot [letter] Fredette SE, et al. **J Am Podiatr Med Assoc** 1997 Apr;87(4):187–9

VETERINARY

Comparison of bandaging and elevation of the claw for the treatment of foot lameness in dairy cows. Pyman MF. **Aust Vet J** 1997 Feb;75(2):132–5
Management of a transverse fracture in the distal phalanx of a horse. Klohnen A, et al. **Can Vet J** 1997 Sep; 38(9):561–3
Haematoma of the heel as a cause of lameness in dairy cattle [see comments] Blowey RW. **Vet Rec** 1997 May 10; 140(19):507–8. Comment in: Vet Rec 1997 May 24;140(21):564.

FOOT JOINT see **TARSAL JOINT**

FOOT ROT

DIAGNOSIS

Improved laboratory diagnosis of ovine footrot: an update. Liu D, et al. **Vet J** 1997 Jan;153(1):99–105 (39 ref.)
Assessment of gelatin gel and elastase tests for detection of protease activity of Dichelobacter nodosus isolates from ovine footrot. Links IJ, et al. **Vet Microbiol** 1996 Aug; 51(3–4):305–18

Antigens for serological diagnosis of ovine footrot. Whittington RJ, et al. **Vet Microbiol** 1997 Mar; 54(3–4):255–74
Virulent foot rot in sheep [letter] Lewis CJ, et al. **Vet Rec** 1997 Jul 26;141(4):107–8

DRUG THERAPY

Factors associated with the effectiveness of antibiotic treatment for ovine virulent footrot. Jordan D, et al. **Aust Vet J** 1996 Jun;73(6):211–5
Efficacy of a novel copper-based footbath preparation for the treatment of ovine footrot during the spread period. Reed GA, et al. **Aust Vet J** 1996 Nov;74(5):375–82
Comparison of erythromycin and oxytetracycline for the treatment of virulent footrot in grazing sheep. Rendell DK, et al. **Aust Vet J** 1997 May;75(5):354

EPIDEMIOLOGY

A survey of sheep flocks on Kangaroo Island for virulent footrot. McFarland IJ, et al. **Aust Vet J** 1996 Nov; 74(5):388–9
Virulent foot rot in sheep [letter] Day CE. **Vet Rec** 1997 Jul 12;141(2):56
Virulent foot rot in sheep [letter] Grogono-Thomas R. **Vet Rec** 1997 Jul 5;141(1):26–7
Virulent foot rot in sheep [letter] Harwood DG, et al. **Vet Rec** 1997 Jun 28;140(26):687
Virulent foot rot in sheep [letter] Winter A. **Vet Rec** 1997 Jul 5;141(1):27

MICROBIOLOGY

Virulence regions and virulence factors of the ovine footrot pathogen, Dichelobacter nodosus. Billington SJ, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):147–56 (36 ref.)
Immunoblot and ultrastructural analysis of antigens extracted from Dichelobacter nodosus with potassium thiocyanate. Whittington R. **J Vet Diagn Invest** 1996 Jul;8(3):315–23
Assessment of gelatin gel and elastase tests for detection of protease activity of Dichelobacter nodosus isolates from ovine footrot. Links IJ, et al. **Vet Microbiol** 1996 Aug; 51(3–4):305–18
Comparison of gene probe and conventional methods for the differentiation of ovine footrot isolates of Dichelobacter nodosus. Rood JI, et al. **Vet Microbiol** 1996 Sep; 52(1–2):127–41
Bacteriological study of footrot in pigs: a preliminary note. Piriz S, et al. **Vet Rec** 1996 Jul 6;139(1):17–9

PATHOLOGY

A retrospective study of clinical and laboratory characteristics of ovine footrot. Liu D, et al. **Vet Microbiol** 1994 Dec;42(4):373–81

PREVENTION & CONTROL

Virulent foot rot in sheep [letter] Harwood DG, et al. **Vet Rec** 1997 Jul 19;141(3):83

FOOT ULCER

CHEMICALLY INDUCED

Ionic versus nonionic contrast media [see comments] Berlin L. **AJR Am J Roentgenol** 1996 Nov;167(5):1095–7. Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1620–1.
Re: Ionic versus nonionic contrast media [letter; comment] Silverman PM. **AJR Am J Roentgenol** 1997 Jun; 168(6):1620–1. Comment on: AJR Am J Roentgenol 1996 Nov;167(5):1095–7.
Perforating foot ulceration with allopurinol therapy. Bouloc A, et al. **Clin Exp Dermatol** 1996 Sep;21(5):351–2

COMPLICATIONS

Cryofibrinogenemia with polyarthralgia, Raynaud's phenomenon and acral ulcer in a patient with Graves' disease treated with methimazole. Hosoi K, et al. **Intern Med** 1997 Jun;36(6):439–42
Squamous cell carcinoma of the foot arising in chronic ulcers in leprosy patients. Soares D, et al. **Lepr Rev** 1996 Dec; 67(4):325–9

DIAGNOSIS

Five cases of extraoral infection associated with Eikenella corrodens [letter] Nebreda T, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):254–6
Current methods of measuring ulcers. A review. Houghton E, et al. **J Am Podiatr Med Assoc** 1997 Aug;87(8):358–9 (5 ref.)

DRUG THERAPY

Spontaneous laser doppler flux distribution in ischemic ulcers and the effect of prostanoids: a crossover study comparing the acute action of prostaglandin E1 and iloprost vs saline. Gschwandtner ME, et al. **Microvasc Res** 1996 Jan; 51(1):29–38

EPIDEMIOLOGY

The tactile circumferential discriminator. A new, simple screening device to identify diabetic patients at risk of foot ulceration. Vileikyte L, et al. **Diabetes Care** 1997 Apr; 20(4):623–6
Leg and foot ulcer patients. Epidemiology and nursing care in an urban population in south Stockholm, Sweden. Ebbeskog B, et al. **Scand J Prim Health Care** 1996 Dec; 14(4):238–43

ETIOLOGY

Wound management. Sixty-eight year old woman with ulcers on her foot. Findlay D. **Aust Fam Physician** 1996 Sep; 25(9):1449–51
Hereditary sensory autonomic neuropathy--type II in siblings [letter] Balachandran C, et al. **Indian J Lepr** 1996 Oct–Dec;68(4):373–4
Chronic leg ulcers associated with hereditary protein S deficiency. Kulthanan K, et al. **Int J Dermatol** 1997 Mar; 36(3):210–2
Cauda equina syndrome resulting in late sequela of calcaneal gait and neuropathic heel ulcer. Ward K, et al. **J Am Podiatr Med Assoc** 1997 Feb;87(2):60–5
Foot ulcer due to arteriovenous malformation: report of a case. Lee SG, et al. **J Dermatol** 1997 Apr;24(4):255–7
Squamous cell carcinoma of the foot arising in chronic ulcers in leprosy patients. Soares D, et al. **Lepr Rev** 1996 Dec; 67(4):325–9
Cutaneous and pharyngeal diphtheria imported from the Indian subcontinent. Hart PE, et al. **Postgrad Med J** 1996 Oct;72(852):619–20
[Unilateral gigantism of the extremities, venous ectasia and ischemic foot ulcer in a 33-year-old patient] Taute BM, et al. **Internist (Berl)** 1996 Mar;37(3):304–9 **(Ger)**
[Successful management of malum perforans resulting from spina bifida (see comments)] Somogyi T, et al. **Orv Hetil** 1997 Mar 2;138(9):547–50 (Eng. Abstr.). Comment in: Orv Hetil 1997 Jul 13;138(28):1833. **(Hun)**

MICROBIOLOGY

Five cases of extraoral infection associated with Eikenella corrodens [letter] Nebreda T, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):254–6
[A tropical ulcer; cutaneous diphtheria] Werdmuller BF, et al. **Ned Tijdschr Geneeskd** 1996 Nov 30;140(48):2414–6 (Eng. Abstr.) **(Dut)**
[Simplification and codification of treatment for leprous plantar ulcers] Grauwin MY, et al. **Acta Leprol** 1997; 10(3):165–8 (12 ref.) (Eng. Abstr.) **(Fre)**
[Extraintestinal Salmonella typhi infection] Neri S, et al. **Minerva Med** 1997 Jun;88(6):257–9 (Eng. Abstr.) **(Ita)**

NURSING

Leg and foot ulcer patients. Epidemiology and nursing care in an urban population in south Stockholm, Sweden. Ebbeskog B, et al. **Scand J Prim Health Care** 1996 Dec; 14(4):238–43

PATHOLOGY

Microcystic adnexal carcinoma. Sabhikhi AK, et al. **Int J Dermatol** 1997 Feb;36(2):134–6
Pseudoepitheliomatous hyperplasia in trophic ulcers in leprosy patients. A 28-case study. Grauwin MY, et al. **Lepr Rev** 1996 Sep;67(3):203–7
[Squamous cell carcinoma in neuropathic plantar ulcers in leprosy: another example of Marjolin's ulcer] Schoeman BJ. **S Afr Med J** 1996 Aug;86(8):966–9 (Eng. Abstr.) **(Dut)**
[A cutaneous ulcer induced by fungi of the genus Fusarium] Negroni R, et al. **Rev Soc Bras Med Trop** 1997 Jul–Aug; 30(4):323–8 (18 ref.) (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Do people with diabetes wear their prescribed footwear? Knowles EA, et al. **Diabet Med** 1996 Dec;13(12):1064–8
Design and pilot testing of the DVA/Seattle Footwear System for diabetic patients with foot insensitivity. Reiber GE, et al. **J Rehabil Res Dev** 1997 Jan;34(1):1–8
Measurement of pressure walking in footwear used in leprosy. Birke JA, et al. **Lepr Rev** 1994 Sep;65(3):262–71

REHABILITATION

Cost-effective footwear for leprosy control programmes: a study in rural Ethiopia. Seboka G, et al. **Lepr Rev** 1996 Sep;67(3):208–16

SURGERY

Reverse first dorsal metatarsal artery adipofascial flap [see comments] Senyuva C, et al. **Ann Plast Surg** 1996 Feb; 36(2):158–61. Comment in: Ann Plast Surg 1996 Oct;37(4):453–4.
The distally based superficial sural flap for reconstruction of the lower leg and foot [letter; comment] Greant P. **Br J Plast Surg** 1997 Jun;50(4):295–6. Comment on: Br J Plast Surg 1996 Sep;49(6):383–9.
Rheumatoid nodules affecting both heels with surgical debulking: a case report*. Jones RO, et al. **J Am Podiatr Med Assoc** 1996 Apr;86(4):179–82
Recurrent plantar ulceration following pan metatarsal head resection. Petrov O, et al. **J Foot Ankle Surg** 1996 Nov–Dec;35(6):573–7; discussion 602
Pseudoepitheliomatous hyperplasia in trophic ulcers in leprosy patients. A 28-case study. Grauwin MY, et al. **Lepr Rev** 1996 Sep;67(3):203–7
[Tumoral proliferations in chronic plantar ulcers: how to treat?] Grauwin MY, et al. **Acta Leprol** 1996;10(2):101–4 (Eng. Abstr.) **(Fre)**
[Pinch grafting in slow-healing leg ulcer. An old method becomes popular again] Tarstedt M, et al. **Lakartidningen** 1997 Jun 25;94(26–27):2473–6 **(Swe)**

THERAPY

Wound management. Sixty-eight year old woman with ulcers on her foot. Findlay D. **Aust Fam Physician** 1996 Sep; 25(9):1449–51
Reducing dynamic foot pressures in high-risk diabetic subjects with foot ulcerations. A comparison of treatments. Lavery LA, et al. **Diabetes Care** 1996 Aug;19(8):818–21
Difference in treatment of foot ulcerations in Boston, USA and Pisa, Italy. Frykberg RG, et al. **Diabetes Res Clin Pract** 1997 Feb;35(1):21–6
Successes and pitfalls in the healing of neuropathic forefoot ulcerations with the IPOS postoperative shoe. Needleman RL. **Foot Ankle Int** 1997 Jul;18(7):412–7
Transcutaneous oxygen pressure as predictive parameter for ulcer healing in endstage vascular patients treated with spinal cord stimulation. Claeys LG, et al. **Int Angiol** 1996 Dec;15(4):344–9
[Simplification and codification of treatment for leprous plantar ulcers] Grauwin MY, et al. **Acta Leprol** 1997; 10(3):165–8 (12 ref.) (Eng. Abstr.) **(Fre)**

VETERINARY

Histopathological changes in digits of dairy cows affected with sole ulcers. Mochizuki M, et al. **J Vet Med Sci** 1996 Oct;58(10):1031–5
Ulcerative pododermatitis in free-ranging African elephant (Loxodonta africana) in the Kruger National Park. Keet DF, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):25–32

FOOT ULCER, DIABETIC see **DIABETIC FOOT**

FOOTBALL

Football folly: sideline oxygen [letter] Winter FD Jr. **Am J Cardiol** 1997 Apr 1;79(7):1003–4
Intervention and prevention of steroid use in adolescents. Elliot D, et al. **Am J Sports Med** 1996;24(6 Suppl):S46–7
I have often wondered... [editorial] Leach RE. **Am J Sports Med** 1997 May–Jun;25(3):281
The New Zealand rugby injury and performance project. III. Anthropometric and physical performance characteristics of players [published erratum appears in Br J Sports Med 1996 Sep;30(3):273] Quarrie KL, et al. **Br J Sports Med** 1995 Dec;29(4):263–70
Physical and fitness characteristics of successful Gaelic footballers. Watson AW. **Br J Sports Med** 1995 Dec; 29(4):229–31
Lacunar stroke in a hypertensive football player: implications in managing hypertension in athletes. Mann SJ, et al. **Clin J Sport Med** 1997 Jan;7(1):69–72 (27 ref.)
Mild head injury and speed of information processing: a prospective study of professional rugby league players. Hinton-Bayre AD, et al. **J Clin Exp Neuropsychol** 1997 Apr;19(2):275–89
An outbreak of herpes rugbiorum managed by vaccination of players and sociosexual contacts. Skinner GR, et al. **J Infect** 1996 Nov;33(3):163–7
Dynamic trunk strength of Canadian football players, soccer players, and middle to long distance runners. Williams CA, et al. **J Orthop Sports Phys Ther** 1997 Apr;25(4):271–6
Use of ionising radiation by professional football clubs to assess asymptomatic transfer candidates. Bailey D, et al. **J R Army Med Corps** 1996 Oct;142(3):114–5
Communications to the 3rd World Congress of Science and Football. Cardiff, Wales, 9–13 April 1995. Abstracts. **J Sports Sci** 1995 Dec;13(6):499–522
Bone mineral density in female junior, senior and former football players. Düppe H, et al. **Osteoporos Int** 1996; 6(6):437–41

INJURIES

Repeated measures analysis of binary outcomes: applications to injury research. Williamson DS, et al. **Accid Anal Prev** 1996 Sep;28(5):571–9
The New Zealand Rugby Injury and Performance Project: alcohol use patterns within a cohort of rugby players. Quarrie KL, et al. **Addiction** 1996 Dec;91(12):1865–8
Nonunion of a distal femoral epiphyseal fracture-separation. Goldberg BA, et al. **Am J Orthop** 1996 Nov;25(11):773–7
Factors related to quadriplegia in football and the implications for intervention strategies. Bishop PJ. **Am J Sports Med** 1996 Mar–Apr;24(2):235–9
Football cleat design and its effect on anterior cruciate ligament injuries [letter; comment] Garrick JG, et al. **Am J Sports Med** 1996 Sep–Oct;24(5):705–6. Comment on: Am J Sports Med 1996 Mar–Apr;24(2):155–9.
Impact loading of the lumbar spine during football blocking. Gatt CJ Jr, et al. **Am J Sports Med** 1997 May–Jun; 25(3):317–21
Football cleat design and its effect on anterior cruciate ligament injuries. A three-year prospective study [see

comments] Lambson RB, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):155–9. Comment in: Am J Sports Med 1996 Sep–Oct;24(5):705–6.
The pathomechanics of chronic, recurrent cervical nerve root neurapraxia. The chronic burner syndrome. Levitz CL, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):73–6
Knee injuries in women collegiate rugby players. Levy AS, et al. **Am J Sports Med** 1997 May–Jun;25(3):360–2
Pulmonary barotrauma: diagnosis in American football players. Three cases in three years. Levy AS, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):227–9
Preseason hamstring muscle weakness associated with hamstring muscle injury in Australian footballers. Orchard J, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):81–5
The effect of protective football equipment on alignment of the injured cervical spine. Radiographic analysis in a cadaveric model. Palumbo MA, et al. **Am J Sports Med** 1996 Jul–Aug;24(4):446–53
Direct injury to the axillary nerve in athletes playing contact sports. Perlmutter GS, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):65–8
Cervical spine alignment in the immobilized football player. Radiographic analysis before and after helmet removal. Swenson TM, et al. **Am J Sports Med** 1997 Mar–Apr; 25(2):226–30
Traumatic ossifying periostitis of the ulna masquerading as a malignancy in a football player. A case report and literature review. Ward WG Sr, et al. **Am J Sports Med** 1996 Nov–Dec;24(6):852–6
Prevalence of orofacial injuries and use of mouthguards in high school Rugby Union. Chapman PJ, et al. **Aust Dent J** 1996 Aug;41(4):252–5
Frequency of injuries in different age–groups in an elite rugby league club. Estell J, et al. **Aust J Sci Med Sport** 1995 Dec;27(4):95–7
Acute compartment syndrome due to closed muscle rupture. Gwynne Jones DP, et al. **Aust N Z J Surg** 1997 Apr; 67(4):227–8
Retrospective study of concussive convulsions in elite Australian rules and rugby league footballers: phenomenology, aetiology, and outcome [see comments] McCrory PR, et al. **BMJ** 1997 Jan 18;314(7075):171–4. Comment in: BMJ 1997 Jan 18;314(7075):158–9. Comment in: BMJ 1997 Apr 26;314(7089):1283.
Spinal cord injuries have fallen in rugby union players in New South Wales [letter; comment] Wilson SP, et al. **BMJ** 1996 Dec 14;313(7071):1550. Comment on: BMJ 1995 May 27;310(6991):1345–6.
MRI diagnosis of accessory soleus muscle strain [see comments] Featherstone T. **Br J Sports Med** 1995 Dec; 29(4):277–8. Comment in: Br J Sports Med 1996 Jun;30(2):185.
Injury in rugby league football: the new super league [letter] Gissane C, et al. **Br J Sports Med** 1997 Mar;31(1):85
Medicolegal aspects of deliberate foul play in rugby union [editorial] Grayson E. **Br J Sports Med** 1996 Sep; 30(3):191–2
Turf–toe: super league toe [letter] Jennings D, et al. **Br J Sports Med** 1997 Jun;31(2):164
Influence of players' physique on rugby football injuries. Lee AJ, et al. **Br J Sports Med** 1997 Jun;31(2):135–8
Epidemiological comparison of injuries in school and senior club rugby. Lee AJ, et al. **Br J Sports Med** 1996 Sep; 30(3):213–7
Injury consequences from participation in professional rugby league: a preliminary investigation. Meir RA, et al. **Br J Sports Med** 1997 Jun;31(2):132–4
Acute compartment syndrome following non–contact football injury. Mohanna PN, et al. **Br J Sports Med** 1997 Sep;31(3):254–5
Rugby, injury, and the lions. Williams JP. **Br J Sports Med** 1997 Jun;31(2):95
Adolescent football injuries and sexual maturity. Arciero RA. **Clin J Sport Med** 1996 Jan;6(1):69
Thoracic spinal fracture in a rugby league footballer. Geffen S, et al. **Clin J Sport Med** 1997 Apr;7(2):144–6
Bucket–handle tear of the medial plica. Gerbino PG 2nd, et al. **Clin J Sport Med** 1996 Oct;6(4):265–8; discussion 268–9
Bilateral acute–on–chronic exertional lateral compartment syndrome of the leg: a case report and review of the literature. Goldfarb SJ, et al. **Clin J Sport Med** 1997 Jan; 7(1):59–61; discussion 62 (20 ref.)
"Rugby neck": cervical degeneration in two front row rugby union players. O'Brien CP. **Clin J Sport Med** 1996 Jan; 6(1):56–9
Complete rupture of the distal semimembranosus complex in a professional athlete. Alioto RJ, et al. **Clin Orthop** 1997 Mar;(336):162–5
Sports injuries in school gaelic football: a study over one season. Watson AW. **Ir J Med Sci** 1996 Jan–Mar; 165(1):12–6
High school football–related cervical spinal cord injuries in Louisiana: the athlete's perspective. Lawrence DW, et al. **J La State Med Soc** 1997 Jan;149(1):27–31
American football injuries in Germany. First results from Bundesliga football. Baltzer AW, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):46–9
Chiari I malformation and spinal cord injury: cause for concern in contact athletes? Callaway GH, et al. **Med Sci Sports Exerc** 1996 Oct;28(10):1218–20 (17 ref.)
Standardized assessment of concussion in football players. McCrea M, et al. **Neurology** 1997 Mar;48(3):586–8
Neuropsychological functioning and recovery after mild head injury in collegiate athletes. Macciocchi SN, et al. **Neurosurgery** 1996 Sep;39(3):510–4
Football injuries in a rural area. Zoch TW, et al. **Wis Med J** 1996 Aug;95(8):570–3

LEGISLATION & JURISPRUDENCE

Developing a health surveillance strategy for professional footballers in compliance with UK health and safety legislation. Fuller CW, et al. **Br J Sports Med** 1997 Jun; 31(2):148–9; discussion 150
Medicolegal aspects of deliberate foul play in rugby union [editorial] Grayson E. **Br J Sports Med** 1996 Sep; 30(3):191–2

PHYSIOLOGY

"The effect of the squat exercise on anterior–posterior knee translation in professional football players" [letter] Drez D Jr. **Am J Sports Med** 1996 Mar–Apr;24(2):248
Effects of finger and wrist taping on grip strength. Rettig AC, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):96–8
Influence of players' physique on rugby football injuries. Lee AJ, et al. **Br J Sports Med** 1997 Jun;31(2):135–8
Moderate altitude has no effect on choice reaction time in international rugby players. O'Carroll RE, et al. **Br J Sports Med** 1997 Jun;31(2):151–2
Serum zinc and blood rheology in sportsmen (football players). Khaled S, et al. **Clin Hemorheol Microcirc** 1997 Jan–Feb;17(1):47–58
Sagittal back motion of college football athletes and nonathletes. Strong LR, et al. **Spine** 1997 Aug 1; 22(15):1755–9
Anthropometric and physiological characteristics of rugby union football players. Nicholas CW. **Sports Med** 1997 Jun; 23(6):375–96 (75 ref.)
A physiological review of American football. Pincivero DM, et al. **Sports Med** 1997 Apr;23(4):247–60 (40 ref.)

PSYCHOLOGY

Antecedents of state anxiety in rugby. Lane AM, et al. **Percept Mot Skills** 1997 Apr;84(2):427–33
Ratings of stress by rugby referees. Rainey DW, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):728–30

STATISTICS & NUMERICAL DATA

Drug doping in senior Australian rules football: a survey for frequency. Hardy KJ, et al. **Br J Sports Med** 1997 Jun; 31(2):126–8

FOOTPRINTS, DNA see **DNA FOOTPRINTING**

FORAMEN MAGNUM

Melanocytoma of the foramen magnum. Hirose T, et al. **Pathol Int** 1997 Feb–Mar;47(2–3):155–60
Meningioma of the foramen magnum: a series of 40 cases. George B, et al. **Surg Neurol** 1997 Apr;47(4):371–9
[Foramen magnum meningioma of ventral type] Yamakami I, et al. **No Shinkei Geka** 1996 Apr;24(4):335–40 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

[Iniencephaly: description of a case] Zatterale A, et al. **Pathologica** 1995 Dec;87(6):726–8 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Foramen magnum neurenteric cyst causing mollaret meningitis: MR findings. Weiss MA, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):386–8
Foramen magnum schwannoma with an unusual clinical presentation: case report. Sairyo K, et al. **Spinal Cord** 1997 Aug;35(8):554–6

PHYSIOLOGY

Magnetic stimulation of the descending and ascending tracts at the foramen magnum level. Ugawa Y, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 105(2):128–31

SURGERY

The effect of condylectomy on extreme lateral transcondylar approach to the anterior foramen magnum. Açikbaş SC, et al. **Acta Neurochir (Wien)** 1997;139(6):546–50
Symptomatic subdural hygroma as a complication of foramen magnum decompression for hindbrain herniation (Arnold–Chiari deformity). Ranjan A, et al. **Br J Neurosurg** 1996 Jun;10(3):301–3
The transcondylar approach to the lower clivus, foramen magnum and C1–C2. Sen C. **Clin Neurosurg** 1996;43:113–26 (13 ref.)
Petroclival and foramen magnum meningiomas: surgical approaches and pitfalls. Sekhar LN, et al. **J Neurooncol** 1996 Sep;29(3):249–59 (22 ref.)
[Lateral approaches to the foramen magnum: with special reference to the transcondylar fossa approach and the transcondylar approach] Matsushima T, et al. **No Shinkei Geka** 1996 Feb;24(2):119–24 **(Jpn)**

FORAMEN OF MONRO see **CEREBRAL VENTRICLES**

FORAMEN OVALE see **HEART SEPTUM**

FORAMEN OVALE, PATENT see **HEART SEPTAL DEFECTS, ATRIAL**

FORBES DISEASE see **GLYCOGEN STORAGE DISEASE TYPE III**

FORCE FEEDING see **ENTERAL NUTRITION**

FORCED EXPIRATORY FLOW RATES

Expiratory flow limitation in COPD patients after single lung transplantation. Murciano D, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1036–41
Myasthenia gravis and upper airway dysfunction [letter; comment] Garcia–Pachon E, et al. **Chest** 1996 Oct; 110(4):1127–8. Comment on: Chest 1996 Feb;109(2):400–4.
A five year follow–up of lung function among chemical workers using flow–volume and impedance measurements. Keman S, et al. **Eur Respir J** 1996 Oct;9(10):2109–15
Flow limitation in anesthetized rhesus monkeys: a comparison of rapid thoracoabdominal compression and forced deflation techniques. Hammer J, et al. **Pediatr Res** 1996 Mar;39(3):539–46
[A study on peak expiratory flow monitoring maneuver as compared to forced expiratory flow maneuver] Nagasaka Y, et al. **Arerugi** 1996 Jan;45(1):34–40 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Pulmonary barotrauma in divers: can prospective pulmonary function testing identify those at risk? [editorial; comment] Bove AA. **Chest** 1997 Sep;112(3):576–8. Comment on: Chest 1997 Sep;112(3):654–9.
Effects of lung volume and thoracic gas compression on maximal and partial flow–volume curves. Pellegrino R, et al. **Eur Respir J** 1996 Oct;9(10):2168–73

FORCED EXPIRATORY FLOW 0.2–1.2 see **MAXIMAL EXPIRATORY FLOW RATE**

FORCED EXPIRATORY FLOW 025–075 PERCENT see **MAXIMAL MIDEXPIRATORY FLOW RATE**

FORCED EXPIRATORY FLOW 200–1200 see **MAXIMAL EXPIRATORY FLOW RATE**

FORCED EXPIRATORY VOLUME

Heavy habitual marijuana smoking does not cause an accelerated decline in FEV1 with age. Tashkin DP, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):141–8
Ventilatory capacities at sea level and high altitude. Forte VA Jr, et al. **Aviat Space Environ Med** 1997 Jun; 68(6):488–93
Impaired lung function and mortality risk in men and women: findings from the Renfrew and Paisley prospective population study [see comments] Hole DJ, et al. **BMJ** 1996 Sep 21;313(7059):711–5; discussion 715–6. Comment in: BMJ 1997 Feb 22;314(7080):605–6.
Predicted postoperative FEV1 and complications in lung resection candidates [letter; comment] Brunelli A, et al. **Chest** 1997 Apr;111(4):1145–6. Comment on: Chest 1994 Mar;105(3):753–9.
Methacholine challenge testing: safety of low starting FEV1. Asthma Clinical Research Network (ACRN). Martin RJ, et al. **Chest** 1997 Jul;112(1):53–6
Quality control of spirometry testing in the registry for patients with severe alpha1–antitrypsin deficiency. alpha1–Antitrypsin Deficiency Registry Study Group. Stoller JK, et al. **Chest** 1997 Apr;111(4):899–909
Is the symptomatic improvement after lung volume reduction surgery correlated with FEV1 in patients with diffuse emphysema? [letter; comment] Teramoto S, et al. **Chest** 1997 Apr;111(4):1144–5. Comment on: Chest 1996 Jul;110(1):28–34.
Defining patients' abnormal pulmonary function [letter; comment] Thomas HM 3rd. **Chest** 1997 Apr;111(4):1146–7 . Comment on: Chest 1996 Aug;110(2):417–21.
Seasonal variation in the circadian rhythm of pulmonary function in stable asthmatic children who have nearly outgrown their asthma. Kondo S, et al. **Chronobiol Int** 1996 Oct;13(4):295–303
Airway responsiveness and atopy in families of patients with asthma. Laprise C, et al. **Clin Invest Med** 1996 Dec; 19(6):461–9
NIDDM, impaired glucose tolerance, and pulmonary function in older adults. The Rancho Bernardo Study. Barrett–Connor E, et al. **Diabetes Care** 1996 Dec; 19(12):1441–4
Relationship between peak expiratory flow (PEF) and FEV1. Paggiaro PL, et al. **Eur Respir J Suppl** 1997 Feb;24:39S–41S
Status of lung transplant recipients surviving beyond five years. Chaparro C, et al. **J Heart Lung Transplant** 1997 May;16(5):511–6
Pulmonary function is compromised in children with mediastinal lymphoma. King DR, et al. **J Pediatr Surg** 1997 Feb;32(2):294–9; discussion 299–300
Pulmonary retransplantation: does the indication for

operation influence postoperative lung function? Novick RJ, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1504–13; discussion 1513–4

Lung function testing: methods and reference values for forced expiratory volume (FEV1) and transfer factor (TL). Cotes JE, et al. **Occup Environ Med** 1997 Jul;54(7):457–65

Bronchodilator response in pulmonary disease at two different states of respiratory mechanics. Ahmad HR, et al. **Respiration** 1996;63(5):288–91

Patent foramen ovale and paradoxical emboli as a possible mechanism of stroke in patients with low FEV1 [letter; comment] Gilon D, et al. **Stroke** 1996 Oct;27(10):1920. Comment on: Stroke 1995 Nov;26(11):2004–10.

Spirometric measurements in healthy Sierra Leoneans. Odonkor PO, et al. **West Afr J Med** 1997 May–Jun; 16(2):112–6

[Validity of isotopic studies in predicting FEV1 after lung resection (letter; comment)] Díez Herranz A. **Arch Bronconeumol** 1996 Nov;32(9):492–3. Comment on: Arch Bronconeumol 1995 Aug–Sep;31(7):328–32. **(Spa)**

DRUG EFFECTS

Sensitivity of FEV1 and indices of flow volume curve in the methacholine test. Mannino F, et al. **Allergol Immunopathol (Madr)** 1996 Mar–Apr;24(2):75–80

Effect of 3 hours' passive smoke exposure in the evening on airway tone and responsiveness until next morning. Nowak D, et al. **Int Arch Occup Environ Health** 1997; 69(2):125–33

Involvement of thromboxane A2 in bronchial hyperresponsiveness of asthma. Kanazawa Asthma Research Group. Fujimura M, et al. **Pulm Pharmacol** 1995 Dec;8(6):251–7

A comparison of the bronchodilating effects of salmeterol, salbutamol and ipratropium bromide in patients with chronic obstructive pulmonary disease. Matera MG, et al. **Pulm Pharmacol** 1995 Dec;8(6):267–71

[Reduced lung function parameters after physical exertion in Austrian Alps in ozone concentrations below the legal warning limit] Wittels P, et al. **Wien Klin Wochenschr** 1997 May 9;109(9):321–6 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Alcohol consumption, gamma-glutamyl transpeptidase (GGT), and pulmonary function: a cross-sectional and longitudinal study in working men. Zureik M, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1507–11

Median sternotomy wound complication: the effect of reconstruction on lung function. Cohen M, et al. **Ann Plast Surg** 1997 Jul;39(1):36–43

Lung volumes of Igloolik Inuit and Volochanka nGanasan. Rode A, et al. **Arctic Med Res** 1996 Jan;55(1):4–13

The effects of breathing pattern training on ventilatory function in patients with COPD. Estève F, et al. **Biofeedback Self Regul** 1996 Dec;21(4):311–21

Repeatability of a rapid dosimetric method for methacholine challenge using a pocket turbine spirometer for FEV1 measurements. Hedman J, et al. **Clin Physiol** 1996 Jul; 16(4):353–9

Effect of pattern of preceding inspiration on FEV1 in asthmatic children. Sette L, et al. **Eur Respir J** 1996 Sep; 9(9):1902–6

Comparison between peak expiratory flow and forced expiratory volume in one second (FEV1) during bronchoconstriction induced by different stimuli. Giannini D, et al. **J Asthma** 1997;34(2):105–11

Relation between decline in FEV1 and exposure to dust and tobacco smoke in aluminium potroom workers. Søyseth V, et al. **Occup Environ Med** 1997 Jan;54(1):27–31

[Effect of smoking on the decline in forced expiratory volume in one second] Sato K, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar; 35(3):288–93 (Eng. Abstr.) **(Jpn)**

FORCED VITAL CAPACITY see **VITAL CAPACITY**

FORCED VITAL CAPACITY, TIMED see **FORCED EXPIRATORY VOLUME**

FOREARM

Ifosfamide-based chemotherapy for recurrent or metastatic hemangiopericytoma. Celik I, et al. **Acta Oncol** 1997; 36(3):348

Ultrasound diagnosis of soft-tissue tumours in the hand and forearm. A prospective study. Höglund M. **Acta Radiol** 1997 Jul;38(4 Pt 1):508–13

Thermographic changes in keyboard operators with chronic forearm pain [see comments] Sharma SD, et al. **BMJ** 1997 Jan 11;314(7074):118. Comment in: BMJ 1997 Apr 5;314(7086):1041–2. Comment in: BMJ 1997 Apr 5;314(7086):1042.

Reinnervated free gracilis muscle transplantation in the treatment of Volkmann's syndrome of the forearm. Innocenti M, et al. **Chir Organi Mov** 1996 Jul–Sep; 81(3):287–93 **(Eng, Ita)**

Symptomatic forearm mass in a 48-year-old man [clinical conference] Hanlon MM, et al. **Clin Orthop** 1996 Oct; (331):308–9, 312–4

Imaging characteristics of aggressive fibromatosis in children. Petchprapa CN, et al. **Comput Med Imaging Graph** 1996 May–Jun;20(3):153–8

Influence of temperature on irritation in the hand/forearm immersion test. Clarys P, et al. **Contact Dermatitis** 1997 May;36(5):240–3

Single-fibre laser Doppler flowmetry and electromyography for evaluating microcirculation in forearm muscle during static and continuous handgrip contractions. Larsson SE, et al. **Eur J Appl Physiol** 1996;73(3–4):219–24

Differential cardiorespiratory response to combined exercise with different combinations of forearm and calf exercise. Ogita F, et al. **Eur J Appl Physiol** 1996;73(6):511–5

Constriction of an extremity after amnioreduction in a TRAP-like sequence. von Eckardstein S, et al. **Fetal Diagn Ther** 1997 Jan–Feb;12(1):50–3

Case report: accessory head of the deep forearm flexors [letter] Jones M, et al. **J Anat** 1997 Aug;191 (Pt 2):313–4

Bilateral chronic compartment syndrome in the forearm and the hand. Söderberg TA. **J Bone Joint Surg Br** 1996 Sep; 78(5):780–2

Lack of relationship between vitamin D receptor genotype and forearm bone gain in healthy children, adolescents, and young adults. Gunnes M, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):851–5

Limb salvage surgery and adjuvant radiotherapy for soft tissue sarcomas of the forearm and hand. Bray PW, et al. **J Hand Surg [Am]** 1997 May;22(3):495–503

Development and evaluation of a precision forearm and hand volumeter and measuring cylinder. Boland R, et al. **J Hand Ther** 1996 Oct–Dec;9(4):349–58

Comparison of bone densitometry of the phalanges, distal forearm and axial skeleton in early postmenopausal women participating in the EPIC Study. Ravn P, et al. **Osteoporos Int** 1996;6(4):308–13

Case report of metallic mercury injury. Smith SR, et al. **Pediatr Emerg Care** 1997 Apr;13(2):114–6 (14 ref.)

Compartment syndrome of the upper extremity following cutaneous laser surgery. Rheingold LM, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1418–20

[Usefulness of brachial artery pressure with forearm compression as arterial pressure monitoring after cardiopulmonary bypass] Katsuno M. **Masui** 1996 Jan; 45(1):77–81 (Eng. Abstr.) **(Jpn)**

[Case of non-trauma forearm compartment syndrome with prominent hypermyoglobinemia] Kawai K, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1940–2 **(Jpn)**

ABNORMALITIES

The Holt–Oram syndrome: radiological approach. Penne D, et al. **J Belge Radiol** 1997 Jun;80(3):118–9

ANATOMY & HISTOLOGY

A variation in the organization of abductor pollicis longus. Fabrizio PA, et al. **Clin Anat** 1996;9(6):371–5 (20 ref.)

The reliability of upper limb anthropometry in older Chinese people. Kwok T, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):542–7

Laser reflectance imaging of human organs and comparison with perfusion images. Shanthi S, et al. **Med Biol Eng Comput** 1997 May;35(3):253–8

The accessory tendon of the extensor indicis muscle. Cavdar S, et al. **Okajimas Folia Anat Jpn** 1996 Aug;73(2–3):139–42

The lateral forearm flap: an anatomic study. Lanzetta M, et al. **Plast Reconstr Surg** 1997 Feb;99(2):460–4

BLOOD SUPPLY

Plasma angiotensins and human forearm circulation: effects of sympatho-adrenal activation. Kahan T, et al. **Acta Physiol Scand** 1997 Feb;159(2):107–11

Sustained forearm vasodilation in humans during mental stress is not neurogenically mediated. Lindqvist M, et al. **Acta Physiol Scand** 1996 Sep;158(1):7–14

Venous aneurysm of the distal forearm: MR imaging findings. Morrison J, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1552–4

Flow-induced vasodilation of the human brachial artery is impaired in patients <40 years of age with coronary artery disease. Lieberman EH, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1210–4

Four weeks of cycle training increases basal production of nitric oxide from the forearm. Kingwell BA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1070–7

Postischemic vasodilation in human forearm is dependent on endothelium-derived nitric oxide. Meredith IT, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1435–40

Physical fitness, muscle morphology, and insulin-stimulated limb blood flow in normal subjects. Utriainen T, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E905–11

Results of arteriovenous fistula revision in the forearm. Yasuhara H, et al. **Am J Surg** 1997 Jul;174(1):83–6

Distal dorsal forearm flap. Syed SA, et al. **Ann Plast Surg** 1997 Apr;38(4):396–403

Simvastatin reduces forearm vascular responsiveness to norepinephrine [letter] Abbott D, et al. **Atherosclerosis** 1997 Jun;131(2):263–4

Suppression of the reactive hyperemic response in the forearm due to local hand cooling. Kilgour RD, et al. **Aviat Space Environ Med** 1997 Jan;68(1):46–50

Comparison of cholinergic vasodilator responses to acetylcholine and methacholine in the human forearm. Bruning TA, et al. **Blood Press** 1996 Nov;5(6):333–41

Angiotensin II-receptor (AT1) blockade in the human forearm. Ritter JM, et al. **Blood Press Suppl** 1996;2:67–70 (31 ref.)

Haemodynamic effects of adrenomedullin in human resistance and capacitance vessels. Cockcroft JR, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):57–60

Intra-arterial substance P mediated vasodilatation in the human forearm: pharmacology, reproducibility and tolerability. Newby DE, et al. **Br J Clin Pharmacol** 1997 May;43(5):493–9

Venous drainage of the radial forearm and anterior tibial reverse flow flaps: anatomical and radiographic perfusion studies. Nakajima H, et al. **Br J Plast Surg** 1997 Sep; 50(6):389–401

Effects of losartan on vasoconstrictor responses to angiotensin II in the forearm vascular bed of healthy volunteers. Baan J Jr, et al. **Cardiovasc Res** 1996 Nov; 32(5):973–9

Effects of inhibition of the L-arginine/nitric oxide pathway on vasodilation caused by beta-adrenergic agonists in human forearm. Dawes M, et al. **Circulation** 1997 May 6; 95(9):2293–7

Hyperreactivity to nitrovasodilators in forearm vasculature is related to autonomic dysfunction in insulin-dependent diabetes mellitus [see comments] Mäkimattila S, et al. **Circulation** 1997 Feb 4;95(3):618–25. Comment in: Circulation 1997 Feb 4;95(3):560–1.

Vitamin C improves endothelium-dependent vasodilation in forearm resistance vessels of humans with hypercholesterolemia. Ting HH, et al. **Circulation** 1997 Jun 17;95(12):2617–22

Does sympathetic activation blunt nitric oxide-mediated hyperemia in the human forearm? Engelke KA, et al. **Clin Auton Res** 1997 Apr;7(2):85–91

Abnormal desmopressin-induced forearm vasodilatation in patients with heart failure: dependence on nitric oxide synthase activity. Rector TS, et al. **Clin Pharmacol Ther** 1996 Dec;60(6):667–74

Comparison of forearm vasodilatation to substance P and acetylcholine: contribution of nitric oxide. Newby DE, et al. **Clin Sci (Colch)** 1997 Feb;92(2):133–8

Role of nitric oxide towards vasodilator effects of substance P and ATP in human forearm vessels. Shiramoto M, et al. **Clin Sci (Colch)** 1997 Feb;92(2):123–31

Forearm nitric oxide balance, vascular relaxation, and glucose metabolism in NIDDM patients. Avogaro A, et al. **Diabetes** 1997 Jun;46(6):1040–6

Blockade of vascular ATP-sensitive potassium channels reduces the vasodilator response to ischaemia in humans. Bijlstra PJ, et al. **Diabetologia** 1996 Dec;39(12):1562–8

Dissociation between insulin sensitivity of glucose uptake and endothelial function in normal subjects. Utriainen T, et al. **Diabetologia** 1996 Dec;39(12):1477–82

Arterial blood pressure and forearm vascular conductance responses to sustained and rhythmic isometric exercise and arterial occlusion in trained rock climbers and untrained sedentary subjects. Ferguson RA, et al. **Eur J Appl Physiol** 1997;76(2):174–80

Effects of intra-arterial infusion of insulin on control of forearm vascular resistance in normotensive and hypertensive subjects. Imaizumi T. **Hypertens Res** 1996 Jun;19 Suppl 1:S47–50 (19 ref.)

Estrogen enhances basal nitric oxide release in the forearm vasculature in perimenopausal women [see comments] Sudhir K, et al. **Hypertension** 1996 Sep;28(3):330–4. Comment in: Hypertension 1997 Jun;29(6):1357.

Effects of supplemental oxygen on forearm vasodilation in humans. Crawford P, et al. **J Appl Physiol** 1997 May; 82(5):1601–6

Sympathetic withdrawal and forearm vasodilation during vasovagal syncope in humans. Dietz NM, et al. **J Appl Physiol** 1997 Jun;82(6):1785–93

Contribution of nitric oxide and prostaglandins to reactive hyperemia in human forearm. Engelke KA, et al. **J Appl Physiol** 1996 Oct;81(4):1807–14

Endothelium-derived nitric oxide activity in forearm vessels of tennis players. Green DJ, et al. **J Appl Physiol** 1996 Aug;81(2):943–8

Dependence of muscle VO2 on blood flow dynamics at onset of forearm exercise. Hughson RL, et al. **J Appl Physiol** 1996 Oct;81(4):1619–26

Effect of luteal phase elevation in core temperature on forearm blood flow during exercise. Kolka MA, et al. **J Appl Physiol** 1997 Apr;82(4):1079–83

Otolithic and tonic neck receptors control of limb blood flow in humans. Normand H, et al. **J Appl Physiol** 1997 Jun; 82(6):1734–8

Failure of prostaglandins to modulate the time course of blood flow during dynamic forearm exercise in humans. Shoemaker JK, et al. **J Appl Physiol** 1996 Oct;81(4):1516–21

Role of endothelium in control of forearm blood flow in patients with heart failure. Takeshita A, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S209–15

Effects of in vivo and in vitro L-arginine supplementation on healthy human vessels. Chin-Dusting JP, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):158–66

Role of nitric oxide in substance P-induced vasodilation differs between the coronary and forearm circulation in humans. Tagawa T, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):546–53

Infectious aneurysm of the interosseous artery at the forearm. Case report. Illuminati G, et al.

J Cardiovasc Surg (Torino) 1996 Dec;37(6):589–91

An anatomical study on the forearm vascular system. Shima H, et al. **J Craniomaxillofac Surg** 1996 Oct;24(5):293–9

Peripheral gangrene associated with fulminating meningococcal septicaemia. Is early escharotomy indicated? Fitton AR, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):408–10

Impaired endothelium–mediated vasodilatation in the peripheral vasculature of patients with acute pulmonary allograft rejection. Scherstén H, et al. **J Heart Lung Transplant** 1996 Jun;15(6):556–63

On the existence of functional angiotensin II receptors on vascular sympathetic nerve terminals in the human forearm. Chang PC, et al. **J Hypertens** 1995 Nov;13(11):1275–84

Myocardial and forearm blood flow reserve in mild–moderate essential hypertensive patients. Pedrinelli R, et al. **J Hypertens** 1997 Jun;15(6):667–73

Hydrochlorothiazide exerts no direct vasoactivity in the human forearm. Pickkers P, et al. **J Hypertens** 1995 Dec; 13(12 Pt 2):1833–6

Evidence for nitric oxide–mediated sympathetic forearm vasodiolatation in humans. Dietz NM, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):531–40

Thrombolysis versus surgical thrombectomy for the treatment of dialysis graft thrombosis: pilot study comparing costs. Vesely TM, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):507–12

Impaired hyperemic response of forearm vessels in patients with coronary artery disease. A non–invasive evaluation. Hirono O, et al. **Jpn Heart J** 1996 Nov;37(6):837–46

An analysis of the effects of nitroglycerin on forearm circumference, with simultaneous recordings of arterial and venous diameters and blood pressure. Oshibuchi R, et al. **Jpn Heart J** 1997 May;38(3):409–17

Measurement of venous oxyhaemoglobin saturation in the adult human forearm by near infrared spectroscopy with venous occlusion. Yoxall CW, et al. **Med Biol Eng Comput** 1997 Jul;35(4):331–6

Temporal inhomogeneity in brachial artery blood flow during forearm exercise. Robergs RA, et al. **Med Sci Sports Exerc** 1997 Aug;29(8):1021–7

Failure of manual massage to alter limb blood flow: measures by Doppler ultrasound. Shoemaker JK, et al. **Med Sci Sports Exerc** 1997 May;29(5):610–4

Forearm blood flow by Doppler ultrasound during test and exercise: tests of day–to–day repeatability. Shoemaker JK, et al. **Med Sci Sports Exerc** 1996 Sep;28(9):1144–9

Influence of different types of recovery positions on perfusion indices of the forearm. Rathgeber J, et al. **Resuscitation** 1996 Jul;32(1):13–7

O2 consumption–O2 delivery relationship and arteriolar resistance in the forearm of critically ill patients measured by near infrared spectroscopy. De Blasi RA, et al. **Shock** 1996 Nov;6(5):319–25

Sympathoadrenal activation and muscarinic receptor stimulation induce acute release of tissue–type plasminogen activator but not von Willebrand factor across the human forearm. Jern C, et al. **Thromb Haemost** 1997 Aug; 78(2):887–91

Subtraction procedure for the registration of tissue perfusion with Doppler ultrasound. Bührer A, et al. **Ultrasound Med Biol** 1996;22(5):651–8

Reversal of blood flow direction for the salvage of forearm straight and looped ePTFE–shunts. Mickley V, et al. **Vasa** 1996;25(3):257–60

Impairment of adenosine–induced dilation of forearm resistance arteries in patients with arterial hypertension. Preik M, et al. **Vasa** 1997 May;26(2):70–5

[The aortic arch as the source of a peripheral arterial embolism] Rühlmann C, et al. **Dtsch Med Wochenschr** 1997 Mar 7;122(10):287–92 (Eng. Abstr.) **(Ger)**

[Evaluation on rebound effects when the forearm was exposed to cold air] Kakitsuba N, et al. **Sangyo Eiseigaku Zasshi** 1996 Sep;38(5):211–6 (Eng. Abstr.) **(Jpn)**

INJURIES see FOREARM INJURIES

INNERVATION

Terminal nerve branch entries (motor points) of forearm muscles: a comparative study between monkey and human. Liu J, et al. **Acta Anat (Basel)** 1996;155(1):41–9

Intraneural mucous cysts of peripheral nerves. Patel MR, et al. **Am J Orthop** 1997 Aug;26(8):562–4

Distribution of primary motor nerve branches and terminal nerve entry points to the forearm muscles. Liu J, et al. **Anat Rec** 1997 Jul;248(3):456–63

Median nerve suture in the distal part of the forearm. MRI evaluation. Silbermann–Hoffman O, et al. **Ann Chir Main Memb Super** 1996;15(4):213–9

An uncommon cause of finger drop in a patient with rheumatoid arthritis [see comments] McDonald SP, et al. **Ann Rheum Dis** 1996 Oct;55(10):728–30. Comment in: Ann Rheum Dis 1997 Apr;56(4):280.

Does sympathetic activation blunt nitric oxide–mediated hyperemia in the human forearm? Engelke KA, et al. **Clin Auton Res** 1997 Apr;7(2):85–91

Ischaemic anterior interosseus nerve injuries following supracondylar fractures of the humerus in children [letter; comment] Combalia A, et al. **Injury** 1996 Sep;27(7):530. Comment on: Injury 1995 Jun;26(5):343–4.

Fractures of the forearm complicated by palsy of the anterior interosseous nerve caused by a constrictive dressing. A report of four cases. Casey PJ, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):122–4

Non–traumatic paralysis of the posterior interosseous nerve. Hashizume H, et al. **J Bone Joint Surg Br** 1996 Sep; 78(5):771–6

Anatomy of the radial nerve motor branches in the forearm. Abrams RA, et al. **J Hand Surg [Am]** 1997 Mar;22(2):232–7

Tubular versus conventional repair of median and ulnar nerves in the human forearm: early results from a prospective, randomized, clinical study. Lundborg G, et al. **J Hand Surg [Am]** 1997 Jan;22(1):99–106

Ligamentomuscular protective reflex in the elbow. Phillips D, et al. **J Hand Surg [Am]** 1997 May;22(3):473–8

Brachial neuritis presenting as anterior interosseous nerve compression—implications for diagnosis and treatment: a case report. Wong L, et al. **J Hand Surg [Am]** 1997 May; 22(3):536–9 (29 ref.)

Anterior interosseous nerve palsy. A review of 16 cases. Sood MK, et al. **J Hand Surg [Br]** 1997 Feb;22(1):64–8

Martin–Gruber connections in South Africa. An anatomical study. Taams KO. **J Hand Surg [Br]** 1997 Jun;22(3):328–30

Compression of the lateral cutaneous nerve of the forearm by a glomus tumour. van der Lei B, et al. **J Hand Surg [Br]** 1997 Feb;22(1):71–2

On the existence of functional angiotensin II receptors on vascular sympathetic nerve terminals in the human forearm. Chang PC, et al. **J Hypertens** 1995 Nov;13(11):1275–84

Compression of the lateral antebrachial cutaneous nerve by the biceps tendon. Gillingham BL, et al. **J Shoulder Elbow Surg** 1996 Jul–Aug;5(4):330–2 (10 ref.)

Delayed onset of posterior interosseous nerve palsy after distal biceps tendon repair. Katzman BM, et al. **J Shoulder Elbow Surg** 1997 Jul–Aug;6(4):393–5

Surgical exposure of the dorsal proximal third of the radius: how vulnerable is the posterior interosseous nerve? Strauch RJ, et al. **J Shoulder Elbow Surg** 1996 Sep–Oct;5(5):342–6

The raccoon as an animal model for upper limb neural prosthetics. Walter JS, et al. **J Spinal Cord Med** 1996 Oct; 19(4):234–41

An unusual presentation of a traumatic ulnar mononeuropathy with a Martin–Gruber anastomosis. Kingery WS, et al. **Muscle Nerve** 1996 Jul;19(7):920–2

All ulnar motor hand without forearm communication [letter; comment] Nobrega JA, et al. **Muscle Nerve** 1997 Jul; 20(7):908–9. Comment on: Muscle Nerve 1995 Mar;18(3):309–13.

Reorganization of human cortical motor output maps following traumatic forearm amputation. Pascual–Leone A, et al. **Neuroreport** 1996 Sep 2;7(13):2068–70

[The sensitive branch of the radial nerve at the inferior third of the forearm and at the wrist. Clinical applications] Ndiaye A, et al. **Bull Assoc Anat (Nancy)** 1996 Jun; 80(249):27–30 (Eng. Abstr.) **(Fre)**

PARASITOLOGY

Primary hydatidosis of the peripheral muscles: treatment with albendazole. Carpintero P, et al. **Clin Infect Dis** 1997 Jan; 24(1):85–6

PATHOLOGY

Late rupture of a flexor tendon after electrical injury: tendon localization using magnetic resonance imaging. A case report. Concannon MJ, et al. **Ann Plast Surg** 1996 Jan; 36(1):84–7

MR demonstration of anomalous muscles about the volar aspect of the wrist and forearm. Zeiss J, et al. **Clin Imaging** 1996 Jul–Sep;20(3):219–21

Axonal neuropathy with perineurial hyperplasia: report of a case with multifocal involvement. Jay V, et al. **J Child Neurol** 1996 Sep;11(5):400–3

Compartment syndrome of the pronator quadratus: a case report. Summerfield SL, et al. **J Hand Surg [Am]** 1997 Mar; 22(2):266–8

Two unusual nerve abscesses—lepromatous leprosy and pure neural leprosy: case reports. Kumar GR, et al. **Lepr Rev** 1996 Sep;67(3):217–21

Magnetic resonance imaging of the forearm as a diagnostic aid in patients with sporadic inclusion body myositis. Sekul EA, et al. **Neurology** 1997 Apr;48(4):863–6

PHYSIOLOGY

How forearm position affects grip strength. Richards LG, et al. **Am J Occup Ther** 1996 Feb;50(2):133–8

Discrimination of forearm's motions by surface EMG signals using neural network. Itakura N, et al. **Appl Human Sci** 1996 Nov;15(6):287–94

Study of human forearm posture maintenance with a physiologically based robotic arm and spinal level neural controller. Chou PC, et al. **Biol Cybern** 1997 Apr; 76(4):285–98

Autonomy versus forcing in the organization of human rhythmic forearm movements. Pailhous J, et al. **C R Acad Sci III** 1996 Sep;319(9):773–7

Reciprocal inhibition in the forearm during voluntary contraction and thinking about movement. Ikai T, et al. **Electromyogr Clin Neurophysiol** 1996 Jul–Aug; 36(5):295–304

Lactate uptake by forearm skeletal muscles during repeated periods of short–term intense leg exercise in humans. Granier P, et al. **Eur J Appl Physiol** 1996;72(3):209–14

Noninvasive measures of oxidative metabolism on working human muscles by near–infrared spectroscopy. Hamaoka T, et al. **J Appl Physiol** 1996 Sep;81(3):1410–7

Near–infrared estimation of O2 supply and consumption in forearm muscles working at varying intensity. Homma S, et al. **J Appl Physiol** 1996 Apr;80(4):1279–84

Forearm training attenuates sympathetic responses to prolonged rhythmic forearm exercise. Sinoway L, et al. **J Appl Physiol** 1996 Oct;81(4):1778–84

A dynamic model for simulating movements of the elbow, forearm, an wrist. Lemay MA, et al. **J Biomech** 1996 Oct; 29(10):1319–30

Torque: an appraisal of misuse of terminology in chiropractic literature and technique. Harrison DD, et al. **J Manipulative Physiol Ther** 1996 Sep;19(7):454–62 (57 ref.)

Tensile properties of the interosseous membrane of the human forearm. Pfaeffle HJ, et al. **J Orthop Res** 1996 Sep; 14(5):842–5

Diminished forearm vasomotor response to central hypervolemic loading in aerobically fit individuals. Shi X, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1388–95

[Monitoring intraoperative awareness. Vegetative signs, isolated forearm technique, electroencephalogram, and acute evoked potentials] Schwender D, et al. **Anaesthesist** 1996 Aug;45(8):708–21 (66 ref.) (Eng. Abstr.) **(Ger)**

[Statistical modeling of random forearm microoscillations] Antonets VA, et al. **Biofizika** 1996 May–Jun;41(3):704–10 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Changes of forearm EMG and cerebral evoked potentials following sudden muscle stretch during isometric contractions in patients with Parkinson's disease. Aminoff MJ, et al. **Brain Res** 1997 May 23;757(2):254–9

Basal ganglia and cerebellar impairment differentially affect the amplitude and time scaling during the performance of forearm step tracking movements. Hefter H, et al. **Electromyogr Clin Neurophysiol** 1996 Mar;36(2):121–8

The effects of distal radius fracture malalignment on forearm rotation: a cadaveric study. Bronstein AJ, et al. **J Hand Surg [Am]** 1997 Mar;22(2):258–62

Pain due to tissue acidosis: a mechanism for inflammatory and ischemic myalgia? Issberner U, et al. **Neurosci Lett** 1996 Apr 26;208(3):191–4

RADIOGRAPHY

Epithelioid sarcoma of the forearm. Hanley SD, et al. **Australas Radiol** 1996 Aug;40(3):254–6

Bone mineral density in normal Swedish women. Löfman O, et al. **Bone** 1997 Feb;20(2):167–74

SURGERY

Single versus dual venous drainage of the radial forearm free flap. Futran ND, et al. **Am J Otolaryngol** 1996 Mar–Apr; 17(2):112–7

Subcutaneous metallic mercury injection: early, massive excision. Işik S, et al. **Ann Plast Surg** 1997 Jun;38(6):645–8

Use of a monitor muscle flap in buried free forearm flap transfer. Iwasawa M, et al. **Ann Plast Surg** 1996 Oct; 37(4):364–6

Preformed above elbow cast for composite radial forearm free flap. Ethunandan M, et al. **Br J Oral Maxillofac Surg** 1996 Apr;34(2):193–4

A simple splint for the radial forearm donor site. Marinho RO, et al. **Br J Oral Maxillofac Surg** 1996 Dec;34(6):533–4

Reconstruction of anterior neck contractures with sensate expanded radial forearm free flap. Celiköz B, et al. **Burns** 1996 Jun;22(4):320–3

Doppler ultrasonography as a pre–operative aid to base the forearm flap on the radial or ulnar artery. Dost P, et al. **Clin Otolaryngol** 1993 Oct;18(5):355–8

Reconstruction of the hand with forearm island flaps. Martin D, et al. **Clin Plast Surg** 1997 Jan;24(1):33–48 (27 ref.)

The use of ulnar microvascular free flap as an emergency solution after a complication during radial forearm free–flap raising. A case report. Sadeghi HM, et al. **Int J Oral Maxillofac Surg** 1997 Aug;26(4):287–9

Surgical management of eosinophilic fasciitis of the upper extremity. Suzuki G, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):405–7

Local intravenous thrombolysis with recombinant tissue plasminogen activator for salvage of forearm replantation. Hashim HA, et al. **J Reconstr Microsurg** 1996 Nov; 12(8):543–6

The use of artificial dermis on the donor defect of the free forearm flap. Tane N, et al. **J Reconstr Microsurg** 1996 May;12(4):215–20

Limiting donor site morbidity by suprafascial dissection of the radial forearm flap. Chang SC, et al. **Microsurgery** 1996; 17(3):136–40

Use of distal arteries for microvascular reconstruction in forearm and hand surgery. Ge XZ, et al. **Microsurgery** 1996;17(4):180–3

Role of the perforating vein in vascular pedicle of free forearm flap. Tahara S, et al. **Microsurgery** 1995; 16(11):743–5

Free and island flap transfer for soft tissue defects in the hand and forearm. Yajima H, et al. **Microsurgery** 1996; 17(3):150–4

Donor–site morbidity of reversed radial artery forearm flaps

[letter] Agarwal R. **Plast Reconstr Surg** 1997 Aug; 100(2):549–50

Comparison of free and reversed pedicled posterior interosseous cutaneous flaps. Shibata M, et al. **Plast Reconstr Surg** 1997 Mar;99(3):791–802

[Reconstruction of the loss of bone substance of the forearm by cubitalization of the radius (one bone forearm). Apropos of 6 cases] Bessy H, et al. **Ann Chir Main Memb Super** 1996;15(4):199–211 (Eng. Abstr.) **(Fre)**

[Clinical comparison between radial and lateral forearm flap] Gehrking E, et al. **Laryngorhinootologie** 1997 Mar; 76(3):162–8 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Ultrasound characteristics of five common soft-tissue tumours in the hand and forearm. Höglund M, et al. **Acta Radiol** 1997 May;38(3):348–54

A statistical model for ultrasound diagnosis of soft-tissue tumours in the hand and forearm. Höglund M, et al. **Acta Radiol** 1997 May;38(3):355–8

FOREARM INJURIES

The distal radioulnar joint: anatomy and management of disorders. Jaffe R, et al. **J Hand Ther** 1996 Apr–Jun; 9(2):129–38 (65 ref.)

COMPLICATIONS

Clinical pearls. Stab wound to the left forearm. Kaplan JJ, et al. **Acad Emerg Med** 1997 Aug;4(8):810, 844–6

Posttraumatic compartment syndrome of the dorsal forearm: an unusual case. Anderson WJ, et al. **Orthopedics** 1997 Mar; 20(3):265–6

[Heterotopic ossification as a complication of fracture-dislocations of the forearm in children] Nikitiuk IE, et al. **Vestn Khir Im I I Grek** 1996;155(5):62–5 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

[Radiologic skeletal diagnosis: traumatology of the distal forearm, the wrists and the hand] Neumann K, et al. **Aktuelle Radiol** 1996 Jul;6(4):171–5 (15 ref.) (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Local intravenous thrombolysis with recombinant tissue plasminogen activator for salvage of forearm replantation. Hashim HA, et al. **J Reconstr Microsurg** 1996 Nov; 12(8):543–6

EPIDEMIOLOGY

Risk factors, falls, and fracture of the distal forearm in Manchester, UK. O'Neill TW, et al. **J Epidemiol Community Health** 1996 Jun;50(3):288–92

ETIOLOGY

A survey of croquet injuries. Appleton DR. **J R Soc Med** 1997 Apr;90(4):218–20

Case report of metallic mercury injury. Smith SR, et al. **Pediatr Emerg Care** 1997 Apr;13(2):114–6 (14 ref.)

PHYSIOPATHOLOGY

Patients who have had fractures of the distal forearm do not lose bone as expected [letter] Keen RW, et al. **BMJ** 1996 Sep 28;313(7060):821

PREVENTION & CONTROL

Do wrist guards protect against fractures? Lewis LM, et al. **Ann Emerg Med** 1997 Jun;29(6):766–9

Calcium intake and the incidence of forearm and hip fractures among men. Owusu W, et al. **J Nutr** 1997 Sep;127(9):1782–7

RADIOGRAPHY

Refracture of the forearm in children. Schwarz N, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):740–4

SURGERY

Evaluation of ketorolac in children with forearm fractures. Pierce MC, et al. **Acad Emerg Med** 1997 Jan;4(1):22–6

Case report: upper extremity soft-tissue reconstruction by alloplastic implant: long-term result and follow-up. Bonnecarrere ER, et al. **Ann Plast Surg** 1997 Jan;38(1):74–6

Long-term results of intramedullary pinning of forearm fractures in a developing country. Wal A. **Aust N Z J Surg** 1997 Sep;67(9):622–4

Isolated injury to a major branch of the posterior interosseous nerve of the forearm with surgical repair. Poppi M, et al. **Br J Neurosurg** 1996 Aug;10(4):403–4

Circular fixation for forearm fractures. Seligson D, et al. **Bull Hosp Jt Dis** 1997;56(1):22–5 (17 ref.)

Transposition of flexor pollicis brevis muscle for reconstruction of thumb opposition. Anatomical study and clinical application. Zhu W, et al. **Chin Med J (Engl)** 1996 Jun;109(6):437–40

Complex injuries of the forearm. Coverage considerations. Bray PW, et al. **Hand Clin** 1997 May;13(2):263–78 (90 ref.)

Soft-tissue coverage for the elbow. Sherman R. **Hand Clin** 1997 May;13(2):291–302 (20 ref.)

Plate osteosynthesis of diaphyseal fractures of the radius and ulna. Hertel R, et al. **Injury** 1996 Oct;27(8):545–8

Refracture risk after plate removal in the forearm. Beaupre GS, et al. **J Orthop Trauma** 1996;10(2):87–92

Local intravenous thrombolysis with recombinant tissue plasminogen activator for salvage of forearm replantation. Hashim HA, et al. **J Reconstr Microsurg** 1996 Nov; 12(8):543–6

Tire explosion injuries to the upper extremity. Blechner MH, et al. **J South Orthop Assoc** 1995 Winter;4(4):255–62

Latissimus dorsi musculocutaneous free flap transplantation to salvage below-elbow amputation in an emergency operation: a case report. Naito T, et al. **Microsurgery** 1996; 17(3):155–7

Closure of upper extremity soft-tissue defects using the new "supra-crest" fasciocutaneous free flap. Safak T, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1154–9

[Fractures of the distal end of the forearm and treatment with external fixation] Zasche F, et al. **Rozhl Chir** 1996 Mar;75(3):121–4 (Eng. Abstr.) **(Cze)**

[Lateral brachial flaps] Pélissier P, et al. **Chirurgie** 1997 Jan; 121(9–10):643–6; discussion 646–7 (Eng. Abstr.) **(Fre)**

[Elastic intramedullary cavity splint. Comment on the contribution by Hahn et al. (letter)] Burgdörfer R. **Chirurg** 1996 Nov;67(11):1197 **(Ger)**

[Traumatic axial dislocation injury of the carpus and metacarpus with triquetrum fracture. Rare entity or typical injury] Richter D, et al. **Unfallchirurg** 1997 Jun; 100(6):502–5 (Eng. Abstr.) **(Ger)**

THERAPY

Factors affecting fracture position at cast removal after pediatric forearm fracture. Younger AS, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):332–6

[Value of orthopedic treatment of distal fractures of the forearm in children. Apropos of 152 cases] Prévot N, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997; 83(3):251–8 (Eng. Abstr.) **(Fre)**

FOREBRAIN see **PROSENCEPHALON**

FORECASTING

Workforce projections for emergency medicine: how many emergency physicians does the United States need? [see comments] Holliman CJ, et al. **Acad Emerg Med** 1997 Jul; 4(7):725–30. Comment in: Acad Emerg Med 1997 Jul;4(7):648–50.

Analysis of factors affecting U.S. emergency physician workforce projections. SAEM Workforce Task Force [see comments] Holliman CJ, et al. **Acad Emerg Med** 1997 Jul; 4(7):731–5. Comment in: Acad Emerg Med 1997 Jul;4(7):648–50.

News from the future: health care summit caps decade of transformation, 1996–2005. Aschenbrener CA. **Acad Med** 1996 Aug;71(8):823–7

Predictors of increases in alcohol-related problems among black and white adults: results from the 1984 and 1992 National Alcohol Surveys. Jones-Webb R, et al. **Am J Drug Alcohol Abuse** 1997 May;23(2):281–99

Importance of public health in the next century [letter] Moore SR. **Am J Health Syst Pharm** 1996 May 15;53(10):1200, 1203

The use of administrative data to risk-stratify asthmatic patients. Grana J, et al. **Am J Med Qual** 1997 Summer; 12(2):113–9

Preparing occupational therapists for the year 2000: the impact of managed care on education and training. Foto M. **Am J Occup Ther** 1997 Feb;51(2):88–90

Future directions of laparoscopic surgery [editorial] Mack PO, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):627–8

2001: an American health care odyssey. Hazzard WR. **Ann Intern Med** 1997 Apr 15;126(8):658–9

Dose intensification and breast cancer: current results and future perspectives. Antoine EC, et al. **Ann Oncol** 1996;7 Suppl 2:31–40 (52 ref.)

New generation of aromatase inhibitors: prospects of a major advantage for the patients [editorial; comment] Cocconi G. **Ann Oncol** 1996 Jul;7(5):433–7. Comment on: Ann Oncol 1996 Jul;7(5):465–9. Comment on: Ann Oncol 1996 Jul;7(5):465–9. Comment on: Ann Oncol 1996 Jul;7(5):471–9.

Is there a future for cancer chemotherapy? The Michel Clavel Lecture. Connors TA. **Ann Oncol** 1996 Jul; 7(5):445–52 (25 ref.)

Gene therapy—the challenge for the future. Moore MA, et al. **Ann Oncol** 1996;7 Suppl 2:53–8

Immune monitoring of cancer vaccines. Report on a workshop held at the 9th NCI-EORTC Symposium on New Drugs in Cancer Therapy. Sznol M, et al. **Ann Oncol** 1996 Sep;7(7):667–70

Computers in biology: the future is today. Prilusky J. **Arch Biol Med Exp (Santiago)** 1986;19(3–4):323–8 (7 ref.)

Infectious diseases in the 21st century. Kumate J. **Arch Med Res** 1997 Summer;28(2):155–61 (57 ref.)

AAPM&R presidential address. Forging the physiatric future. Braddom RL. **Arch Phys Med Rehabil** 1996 Nov; 77(11):1097–100

Accreditation: the key to your future! Possible benefits from accreditation. Bollen M. **Aust Fam Physician** 1996 Oct; 25(10):1523–5

Ambulatory blood pressure recording in clinical practice. Current use and future direction [editorial] McGrath BP. **Aust Fam Physician** 1996 Oct;25(10):1517–9

Family medicine—meeting new challenges. Rakel RE. **Aust Fam Physician** 1996 Sep;25(9 Suppl 2):S91–6

Patient-specific predictions for clinical decision-making. McGiffin DC, et al. **Aust N Z J Surg** 1997 Feb–Mar; 67(2–3):108–14

The future of surgery in Papua New Guinea and the South Pacific. Watters DA. **Aust N Z J Surg** 1996 Sep;66(9):580–3

Science and medicine at the millennium. Kornberg A. **Biochem Mol Med** 1997 Aug;61(2):121–6

Computer program to predict likelihood of finding and HLA-matched donor: methodology, validation, and application. Mori M, et al. **Biol Blood Marrow Transplant** 1996 Oct;2(3):134–44

Child malnutrition in China—present status and changing trend. Chang Y, et al. **Biomed Environ Sci** 1996 Sep; 9(2–3):164–80

Status, prospect and policy of food development in China. Jiang JP, et al. **Biomed Environ Sci** 1996 Sep;9(2–3):149–63

Test for linear trend in 2 x K ordered tables with open-ended categories. Gautam S. **Biometrics** 1997 Sep;53(3):1163–9

Ceramics: past, present, and future. Lemons JE. **Bone** 1996 Jul;19(1 Suppl):121S–128S

Year to end budget forecasting: income and expenditure. Pilkington S. **Br J Hosp Med** 1997 May 21–Jun 3; 57(10):527–30

The future of oral and maxillofacial surgery in the UK: the trainees' perspective [editorial] Baker N, et al. **Br J Oral Maxillofac Surg** 1996 Apr;34(2):141–2

Low back pain in the year 2000—"back" to the future. Nachemson AL. **Bull Hosp Jt Dis** 1996;55(3):119–21 (39 ref.)

The future of managed care in New York State. Schimke K. **Bull N Y Acad Med** 1996 Summer;73(1):149–56; discussion 157–67

Will primary central nervous system lymphoma be the most frequent brain tumor diagnosed in the year 2000? Corn BW, et al. **Cancer** 1997 Jun 15;79(12):2409–13

Specimen banking of marine organisms in the United States: current status and long-term prospective. Becker PR, et al. **Chemosphere** 1997 May;34(9–10):1889–906 (33 ref.)

Environmental specimen banking in Germany—present state and further challenges. Emons H, et al. **Chemosphere** 1997 May;34(9–10):1875–88 (17 ref.)

Specimen banking—a planning in advance. Olsson M, et al. **Chemosphere** 1997 May;34(9–10):1961–74 (23 ref.)

Future directions in asthma therapy. Is a cure possible? Leff AR. **Chest** 1997 Feb;111(2 Suppl):61S–68S (18 ref.)

Entering the 21st century: future perspectives. Wolf R. **Clin Dermatol** 1996 Jan–Feb;14(1):129–32

Predictive value of MCV for hazardous drinking in the community. Peach HG, et al. **Clin Lab Haematol** 1997 Jun; 19(2):85–7

AIDS and severe HIV disease: combined predictions for the United Kingdom to 1999. Allardice G, et al. **Commun Dis Rep CDR Rev** 1996 Dec 6;6(13):R192–4

Innovations for the new year [editorial] [published erratum appears in Commun Dis Rep CDR Rev 1997 Feb 7;7(2):R32] Handysides S. **Commun Dis Rep CDR Rev** 1997 Jan 10;7(1):R1–2

Unstable angina: new insights into pathophysiologic characteristics, prognosis, and management strategies. Ribeiro PA, et al. **Curr Probl Cardiol** 1996 Oct; 21(10):669–731 (241 ref.)

What is new in clinical research in wound healing. Choucair MM, et al. **Dermatol Clin** 1997 Jan;15(1):45–58 (135 ref.)

Cutaneous gene therapy. Khavari PA, et al. **Dermatol Clin** 1997 Jan;15(1):27–35 (54 ref.)

Advances in Kaposi's sarcoma. Myskowski PL, et al. **Dermatol Clin** 1997 Jan;15(1):177–88 (122 ref.)

Advances in dermatologic surgery. Perez M. **Dermatol Clin** 1997 Jan;15(1):9–18 (61 ref.)

Antimicrobial resistance issues of the future. Craig WA. **Diagn Microbiol Infect Dis** 1996 Aug;25(4):213–7

Putting genes into modern epidemiology: "nature-nurture" and beyond [editorial; comment] Leon D. **Epidemiology** 1997 Jan;8(1):2–4. Comment on: Epidemiology 1997 Jan;8(1):6–11.

Gene therapy—the state of play [editorial] Barton PJ. **Eur Heart J** 1996 Sep;17(9):1295–6

Biochemical markers in acute myocardial infarction—the beginning of a new era? [editorial; comment] Erhardt L. **Eur Heart J** 1996 Dec;17(12):1781–2. Comment on: Eur Heart J 1996 Dec;17(12):1852–9.

Prospects for gene therapy in cardiovascular disease. Lafont A, et al. **Eur Heart J** 1996 Sep;17(9):1312–7 (69 ref.)

Time to bid farewell to surgical mitral commissurotomy? [editorial] Tan K, et al. **Eur Heart J** 1996 Sep;17(9):1304–5

History, role and future goals of the European Society of Gynaecological Oncology [editorial] Onnis A. **Eur J Gynaecol Oncol** 1996;17(6):475–9

A plan for the future of obstetrics and gynaecology in Europe. Beard RW. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):5–9

Extending therapeutic options? Prospects for the future. Edmeads JG. **Eur Neurol** 1996;36 Suppl 2:32–3

Gastroenterology in the 21st century—strength in unity: 1996 presidential address [editorial] Keeffe EB. **Gastrointest Endosc** 1996 Oct;44(4):505–9

Predicting future health system change. Davis JM. **Health Aff (Millwood)** 1996 Winter;15(4):107–8

FORECASTING

Chaos and predictability: is the universe a game of dice? Varadhan R, et al. **IEEE Eng Med Biol Mag** 1997 May–Jun; 16(3):25–6

Immunotoxicity of pesticides: perspectives and trends. Banerjee BD, et al. **Indian J Exp Biol** 1996 Aug; 34(8):723–33 (45 ref.)

The genesis, status and future of environmental toxicology. Bhattacharya S. **Indian J Exp Biol** 1996 Jun;34(6):491–5 (110 ref.)

Facing up to Medicare's challenges [editorial] Moon M. **Inquiry** 1996–97 Winter;33(4):304–7

Infrastructure for radiotherapy in The Netherlands: development from 1970 to 2010. van Daal WA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):411–5

International trends in nursing professional development. Oulton J. **Int Nurs Rev** 1997 Mar–Apr;44(2):47–51

"What is expected of physicians in the coming century" [editorial] Kurokawa K. **Intern Med** 1997 Feb;36(2):79

Project 2000: perceptions of the philosophy and practice of nursing: shifting perceptions—a new practitioner? Clark JM, et al. **J Adv Nurs** 1997 Jul;26(1):161–8

President's page: technology—the bridge to the 21st century. Chernoff R. **J Am Diet Assoc** 1997 Jan;97(1):75

Osteopathic medical education at the bridge to the 21st century [editorial] Retz KC. **J Am Osteopath Assoc** 1996 Nov;96(11):649–50

Distance learning in the future [interview by Diane Heestand] Bork A. **J Biocommun** 1996;23(2):22–4

The future of informed consent and patient–dentist communication. Graham PE, et al. **J Can Dent Assoc** 1997 Jun;63(6):460–3

Future management of high blood pressure. Johnston CI. **J Cardiovasc Pharmacol** 1996;27 Suppl 3:S55–60 (29 ref.)

Environmental magnesium deficiency as a cardiovascular risk factor. Rylander R. **J Cardiovasc Risk** 1996 Feb;3(1):4–10 (48 ref.)

The future of cancer research and the role of the National Cancer Institute. Klausner RD. **J Clin Oncol** 1996 Oct; 14(10):2878–83

Dermatology 1945–95: the golden age of treatment. Fitzpatrick TB. **J Dermatol** 1996 Nov;23(11):728–34 (22 ref.)

How good is Sullivan's method for monitoring changes in population health expectancies. Mathers CD, et al. **J Epidemiol Community Health** 1997 Feb;51(1):80–6

The future of Medicare. Bagby RJ. **J Fla Med Assoc** 1997 Feb;84(2):75–6

Primary care and capitation: an opportunity to construct the future [letter] Goodson JD. **J Gen Intern Med** 1996 Jul; 11(7):440–1

Reconceptualizing baccalaureate nursing education: outcomes and competencies for practice in the 21st century. Halstead JA, et al. **J Nurs Educ** 1996 Dec;35(9):413–6

Transcutaneous electrical nerve stimulation for the control of pain in musculoskeletal disorders. Robinson AJ. **J Orthop Sports Phys Ther** 1996 Oct;24(4):208–26 (83 ref.)

Synthesis at the cutting edge of inquiry [editorial] Slavkin HC. **J Public Health Dent** 1996 Summer;56(4):169–70

The crisis in psychiatry [editorial] [see comments] **Lancet** 1997 Apr 5;349(9057):965. Comment in: Lancet 1997 May 24;349(9064):1550. Comment in: Lancet 1997 May 24;349(9064):1550–1.

Medical imaging in the 21st century. Hillman BJ. **Lancet** 1997 Sep 6;350(9079):731–3

Pregnancy in the 21st century: back to nature with a little assistance. Saunders N. **Lancet** 1997 Mar;349 Suppl 1:sI7–9

The people's health competency collegium. Entin EJ. **Med Health R I** 1996 Aug;79(8):299–302

MD2000: a competency-based curriculum for the Brown University School of Medicine. Smith SR, et al. **Med Health R I** 1996 Aug;79(8):292–8

Projected smoking-related deaths among youth—United States. **MMWR Morb Mortal Wkly Rep** 1996 Nov 8; 45(44):971–4

The future of oncology under managed care. Acker JC. **N C Med J** 1996 Mar–Apr;57(2):84–6

Geriatric health care in the 21st century. Williams ME, et al. **N C Med J** 1996 Nov–Dec;57(6):368–71

Probing the future [editorial; comment] **N Z Dent J** 1997 Jun;93(412):35. Comment on: N Z Dent J 1997 Jun;93(412):39–43.

Predicted distribution of treatment needs for caries across three indicator age groups by the year 2031 [see comments] Thomson WM. **N Z Dent J** 1997 Jun;93(412):39–43. Comment in: N Z Dent J 1997 Jun;93(412):35.

Doubling of world population unlikely [see comments] Lutz W, et al. **Nature** 1997 Jun 19;387(6635):803–5. Comment in: Nature 1997 Jun 19;387(6635):760–1.

Demography. Taking the measure of uncertainty [news; comment] Tuljapurkar S. **Nature** 1997 Jun 19; 387(6635):760–1. Comment on: Nature 1997 Jun 19;387(6635):803–5.

Diagnosis of thyroid dysfunction: present and future. Bartalena L, et al. **Nucl Med Biol** 1994 Apr;21(3):531–44 (35 ref.)

Immunoassay: recent developments and future directions. Ekins R. **Nucl Med Biol** 1994 Apr;21(3):495–521 (33 ref.)

Present and potential uses of growth hormone in therapeutics. Job JC, et al. **Nucl Med Biol** 1994 Apr;21(3):401–6

Developing new safety markets. Morris R. **Occup Health Saf** 1996 Apr;65(4):26, 81

A mission to help, a mission of hope. Hoepfer M. **Pa Med** 1997 Feb;100(2):32–3

Legislative seasons.... What lies ahead. Thompson DJ. **Pa Med** 1996 Sep;99(9):10–2

The likely increase in maternal mortality rates in the United Kingdom and in France until 2005. Salanave B, et al. **Paediatr Perinat Epidemiol** 1996 Oct;10(4):418–22

Back pain in primary care: predictors of high health-care costs. Engel CC, et al. **Pain** 1996 May–Jun;65(2–3):197–204

History of medicine revisited: does it give a glimpse into our future? [editorial] Altemeier WA 3rd. **Pediatr Ann** 1997 Jan;26(1):6–8, 18, 25 passim

Preventing Pneumocystis carinii pneumonia in human immunodeficiency virus-infected children: new guidelines for prophylaxis. CDC, US Public Health Service, and the Infectious Disease Society of America. Grubman S, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):165–8 (19 ref.)

Pediatric thoracoscopy: a new vista [see comments] Bullard KM, et al. **Pediatr Pulmonol** 1996 Aug;22(2):129–35 (34 ref.). Comment in: Pediatr Pulmonol 1996 Aug;22(2):79.

Peritoneal dialysis—year 2010 [editorial] Oreopoulos DG. **Perit Dial Int** 1996 Mar–Apr;16(2):109–12

Looking ahead: some genetic issues of the future. Neel JV. **Perspect Biol Med** 1997 Spring;40(3):328–47

Artificial neural network prediction of amino acid levels in feed ingredients. Roush WB, et al. **Poult Sci** 1997 May; 76(5):721–7

Parasuicide, depression and the anticipation of positive and negative future experiences. MacLeod AK, et al. **Psychol Med** 1997 Jul;27(4):973–7

Future directions for resuscitation research. I. Advanced airway control measures. Benson D, et al. **Resuscitation** 1996 Jul;32(1):51–62 (51 ref.)

Future directions for resuscitation research. II. External cardiopulmonary resuscitation basic life support. Bircher N, et al. **Resuscitation** 1996 Jul;32(1):63–75 (68 ref.)

Future directions for resuscitation research. III. External cardiopulmonary resuscitation advanced life support. Ornato JP, et al. **Resuscitation** 1996 Sep;32(2):139–58 (128 ref.)

Future directions for resuscitation research: introduction. Safar P, et al. **Resuscitation** 1996 Jul;32(1):45–50 (20 ref.)

Newer approaches to therapy of hepatic encephalopathy. Ferenci P, et al. **Semin Liver Dis** 1996 Aug;16(3):329–38 (71 ref.)

Noninvasive neuroinvestigation in liver disease. Morgan MY. **Semin Liver Dis** 1996 Aug;16(3):293–314 (112 ref.)

The changing vascular surgery workforce. Stanley JC. **Semin Vasc Surg** 1997 Jun;10(2):65–71

Recent advances in osteoarthritis. Lim KK, et al. **Singapore Med J** 1996 Apr;37(2):189–93 (38 ref.)

Obesity—the genetics perspective [editorial] Sit KH. **Singapore Med J** 1996 Jun;37(3):247–9

Contributions of various major causes of death to life expectancy in Singapore, 1980–1990. Tan KC, et al. **Singapore Med J** 1996 Aug;37(4):348–51

Impact of future cigarette smoking scenarios on mortality of the adult population in the United States, 2000–2050. Nam CB, et al. **Soc Biol** 1996 Fall–Winter;43(3–4):155–68

Comparison of trends in HIV infection for two risk categories. Becker NG, et al. **Stat Med** 1996 Aug 30; 15(16):1779–91

A structural explanation for the twilight zone of protein sequence homology. Chung SY, et al. **Structure** 1996 Oct 15;4(10):1123–7 (26 ref.)

Virtual endoscopy: diagnosis using 3-D visualization and virtual representation. Satava RM. **Surg Endosc** 1996 Feb; 10(2):173–4

Policy development for the control of sex-offending behavior. Cole CM, et al. **Tex Med** 1997 Mar;93(3):65–9

Vascular gene therapy in the 21st century. Clowes AW. **Thromb Haemost** 1997 Jul;78(1):605–10 (70 ref.)

The past, present and future of transgenic bioreactors. Drohan WN. **Thromb Haemost** 1997 Jul;78(1):543–7 (57 ref.)

Cancer in the 21st century. Wright PN. **Trans Med Soc Lond** 1994–95;111:8–11

25 years since the discovery of presynaptic receptors: present knowledge and future perspectives. Langer SZ. **Trends Pharmacol Sci** 1997 Mar;18(3):95–9 (39 ref.)

The future of first-trimester embryoscopy [comment] Hobbins JC. **Ultrasound Obstet Gynecol** 1996 Jul;8(1):3–4. Comment on: Ultrasound Obstet Gynecol 1996 Jul;8(1):11–5.

What's new in ... clinical pharmacology and therapeutics. Kochar MS, et al. **Wis Med J** 1996 Sep;95(9):645–6

What's new in ... obstetrics and gynecology. Wigton TR. **Wis Med J** 1996 Sep;95(9):647–8

Forecasting cataract blindness—and planning to combat it. Limburg H, et al. **World Health Forum** 1996;17(1):15–20

[Average length of life and health status of Danes towards the year of 2000 (editorial)] Kamper-Jørgensen F. **Ugeskr Laeger** 1997 Jun 23;159(26):4085–6 **(Dan)**

[Cervical smears and evaluation of quality] Marsan C. **Ann Pathol** 1996 Nov;16(5):344–9 (41 ref.) **(Fre)**

[Treatment of venous thrombosis with low molecular weight heparin. Progress and outlook] Fiessinger JN. **Bull Acad Natl Med** 1997 May;181(5):875–83; discussion 883–5 (27 ref.) (Eng. Abstr.) **(Fre)**

[Problems and outlook for plant production] Manichon H. **Bull Acad Natl Med** 1996 Nov;180(8):1903–12; discussion 1913–4 (12 ref.) (Eng. Abstr.) **(Fre)**

[Report of the activity of ANDEM and outlook] Matillon Y. **Bull Acad Natl Med** 1997 May;181(5):841–52 (Eng. Abstr.) **(Fre)**

[Cerebral HITS: diagnosis, clinical relevance, outlook] Tranquart F, et al. **J Mal Vasc** 1997;22(1):13–7 (Eng. Abstr.) **(Fre)**

[Chronic diabetogenic pancreatitis: current aspects and new prospects] Assan R, et al. **Journ Annu Diabetol Hotel Dieu** 1996;:85–97 **(Fre)**

[The future of kidney and pancreas transplantation] **Prog Urol** 1996 Oct;6(5):831–41 (64 ref.) **(Fre)**

[A longitudinal evaluation of the reliability of a growth forecast in a sample of an untreated population] Lucchese A, et al. **Minerva Stomatol** 1997 Mar;46(3):87–96 (Eng. Abstr.) **(Ita)**

[Outlook and experience in using ofloxacin in urology] Derevianko II, et al. **Antibiot Khimioter** 1996;41(9):89–94 (Eng. Abstr.) **(Rus)**

[Fluoroquinolones--current value in antibacterial therapy, outlook for development] Navashin SM, et al. **Antibiot Khimioter** 1996;41(9):4–10 (13 ref.) **(Rus)**

[Problems in organization and management of Russian public health in the XXI century: style, strategy, system] Rice D, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr; (2):36–41 **(Rus)**

[The prediction of the needs of the medical service for military physicians] Riabinkin VV, et al. **Voen Med Zh** 1996 Oct;317(10):13–6 **(Rus)**

METHODS

Workforce projection in emergency medicine: imperfections, but significant implications [editorial; comment] Dalsey WC, et al. **Acad Emerg Med** 1997 Jul;4(7):648–50. Comment on: Acad Emerg Med 1997 Jul;4(7):725–30. Comment on: Acad Emerg Med 1997 Jul;4(7):731–5. Comment on: Acad Emerg Med 1997 Jul;4(7):736–41.

Meeting review: the Second meeting on the Critical Assessment of Techniques for Protein Structure Prediction (CASP2), Asilomar, California, December 13–16, 1996. Dunbrack RL Jr, et al. **Fold Des** 1997;2(2):R27–42

The discounting of lives saved in future generations—some empirical results. Johannesson M, et al. **Health Econ** 1996 Jul–Aug;5(4):329–32

Bangkok Workshop on Leprosy Research. Predicting trends. Lechat MF. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4 Suppl):S38–42; discussion S42–3 (7 ref.)

Topology prediction for helical transmembrane proteins at 86% accuracy. Rost B, et al. **Protein Sci** 1996 Aug; 5(8):1704–18

Predicting poor outcomes for back pain seen in primary care using patients' own criteria. Cherkin DC, et al. **Spine** 1996 Dec 15;21(24):2900–7

Modelling prevalence of a condition: chronic graft-versus-host disease after bone marrow transplantation. Couper D, et al. **Stat Med** 1997 Jul 30; 16(14):1551–71 (11 ref.)

[The analysis of expert assessments as a method for the identification and forecasting of trends in the development of scientific and medical problems] Duplenko IuK, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):175–9 **(Rus)**

FOREFOOT, HUMAN

Surgery of the rheumatoid forefoot with special reference to the plantar approach. Tillmann K. **Clin Orthop** 1997 Jul;(340):39–47 (62 ref.)

ANATOMY & HISTOLOGY

Anatomy of the Lisfranc joint complex. de Palma L, et al. **Foot Ankle Int** 1997 Jun;18(6):356–64

BLOOD SUPPLY

Surgical importance of the radio-automatic study of the arterial vascularization of the forefoot. Roffe JL, et al. **Ann Chir Main** 1982;1(1):84–7 **(Eng, Fre)**

Free flap coverage of a gangrenous forefoot in a patient with Buerger's disease: a case report. Van Landuyt K, et al. **Ann Plast Surg** 1996 Feb;36(2):154–7

INJURIES

Traumatic injuries of the first ray. Blakeslee TJ. **Clin Podiatr Med Surg** 1996 Jul;13(3):549–73 (22 ref.)

Radiographic and computed tomographic evaluation of Lisfranc dislocation: a cadaver study. Lu J, et al. **Foot Ankle Int** 1997 Jun;18(6):351–5

PATHOLOGY

A 20-year follow-up study of subtalar changes in rheumatoid arthritis. Belt EA, et al. **Scand J Rheumatol** 1997; 26(4):266–8

PHYSIOLOGY

A weight bearing method for determining forefoot posting for orthotic fabrication. Cummings GS, et al. **Physiother Res Int** 1997;2(1):42–50

PHYSIOPATHOLOGY

A quantitative assessment of healing sandals and postoperative shoes in offloading the neuropathic diabetic foot. Giacalone VF, et al. **J Foot Ankle Surg** 1997 Jan–Feb;

36(1):28–30

SURGERY

Long-term followup of rheumatoid forefoot surgery. Hamalainen M, et al. **Clin Orthop** 1997 Jul;(340):34–8

Infections following implant arthroplasties of the forefoot. Shapiro SE, et al. **Clin Podiatr Med Surg** 1996 Oct; 13(4):767–91 (73 ref.)

Pedodynographic measurements after forefoot reconstruction in rheumatoid arthritis patients. Dereymaeker G, et al. **Foot Ankle Int** 1997 May;18(5):270–6

Tourniquets in forefoot surgery: less pain when placed at the ankle. Finsen V, et al. **J Bone Joint Surg Br** 1997 Jan; 79(1):99–101

Modified Boyd amputation. Kornah B. **J Bone Joint Surg Br** 1996 Jan;78(1):149–50

The plantar marginal septum cutaneous island flap: a new flap in forefoot reconstruction. Bertelli JA, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1390–5

[The rheumatic forefoot] Kerschbaumer F, et al. **Orthopade** 1996 Aug;25(4):354–61 (57 ref.) (Eng. Abstr.) **(Ger)**

FOREHEAD

Subcutaneous granuloma annulare in a patient with rheumatoid arthritis and diabetes mellitus. Tam MM, et al. **Australas J Dermatol** 1996 Nov;37(4):199–201 (8 ref.)

BLOOD SUPPLY

Galeo-pericranial flaps in the forehead: a study of blood supply and volumes. Potparić Z, et al. **Br J Plast Surg** 1996 Dec;49(8):519–28

Adrenergic receptors in the forehead microcirculation. Drummond PD. **Clin Auton Res** 1996 Feb;6(1):23–7

Moderators of ethnic differences in vasoconstrictive reactivity in youth. Musante L, et al. **Ethn Dis** 1996 Autumn;6(3–4):224–34

Intracranial and extracranial blood flow during acute anxiety. Mathew RJ, et al. **Psychiatry Res** 1997 May 16;74(2):93–107

The effect of adrenergic blockade on blushing and facial flushing. Drummond PD. **Psychophysiology** 1997 Mar; 34(2):163–8

INJURIES

Necrotizing fasciitis of the periorbita and forehead. Isenberg JS, et al. **J Oral Maxillofac Surg** 1997 May;55(5):521–3

The reversed-flow temporoparietal fascial flap. Kivanç O, et al. **Plast Reconstr Surg** 1997 May;99(6):1727–9

PATHOLOGY

Botulinum toxin for correction of fronto-glabella wrinkles: preliminary evaluation. Matsudo PK. **Aesthetic Plast Surg** 1996 Sep–Oct;20(5):439–41

PHYSIOPATHOLOGY

Intradiploic haematoma behaving as a progressive mass lesion. Goel A, et al. **Br J Neurosurg** 1996 Dec;10(6):611–2

SURGERY

Frontal exostose resection during an endoscopic subperiosteal lifting: case report. Bracaglia R, et al. **Aesthetic Plast Surg** 1997 Mar–Apr;21(2):122–4

Endoscopic forehead lift: the subperiosteal pulling stitch. Muller GH. **Aesthetic Plast Surg** 1996 Jul–Aug; 20(4):297–301

Evaluation of the median forehead flap and the nasolabial flap in nasal reconstruction. Uchinuma E, et al. **Aesthetic Plast Surg** 1997 Mar–Apr;21(2):86–9

Transblepharoplasty forehead lift and upper face rejuvenation. Ramirez OM. **Ann Plast Surg** 1996 Dec; 37(6):577–84

Rejuvenation of the upper face. A logical gamut of surgical options. Michelow BJ, et al. **Clin Plast Surg** 1997 Apr; 24(2):199–212 (20 ref.)

Contemporary management of the aging brow and forehead. Koch RJ, et al. **Laryngoscope** 1997 Jun;107(6):710–5

Skin expansion versus free forearm flap in forehead reconstruction. Di Giuseppe A, et al. **Microsurgery** 1996; 17(5):248–53

Concepts in scalp and forehead reconstruction. TerKonda RP, et al. **Otolaryngol Clin North Am** 1997 Aug; 30(4):519–39 (23 ref.)

Endoscopic forehead lift: an operative technique. Daniel RK, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1148–57; discussion 1158

Refinements in endoscopic forehead rejuvenation. Guyuron B, et al. **Plast Reconstr Surg** 1997 Jul;100(1):154–60

The reversed-flow temporoparietal fascial flap. Kivanç O, et al. **Plast Reconstr Surg** 1997 May;99(6):1727–9

Fibrin glue fixation in forehead endoscopy: evaluation of our experience with 206 cases. Marchac D, et al. **Plast Reconstr Surg** 1997 Sep;100(3):704–12; discussion 713–4

Intraoperatively controlled small-incision forehead and brow lift. Putterman AM. **Plast Reconstr Surg** 1997 Jul; 100(1):262–6

A simple method for forehead fixation following endoscopy [letter] Smith DS. **Plast Reconstr Surg** 1996 Nov;98(6):1117

[Endoscopic forehead lift] Biemer E. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1118–22 (Eng. Abstr.) **(Ger)**

FOREIGN AID see **INTERNATIONAL COOPERATION**

FOREIGN BODIES

Metallic foreign bodies and MR imaging [letter] Hatfield M, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1597–8

Zinc toxicity following massive coin ingestion. Bennett DR, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):148–53

Foreign body in the trachea: fragmentation and migration. Lele SY, et al. **Am J Otolaryngol** 1997 Jul–Aug;18(4):274–6

Gastric foreign body: a potential risk when using transesophageal echo [letter] Brook M, et al. **Anesth Analg** 1997 Jun;84(6):1389

Knife blade as a facial foreign body. Gardner PA, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):710–3

Endoscopic-assisted wire removal and neurolysis. Ramirez OM, et al. **Ann Plast Surg** 1996 Aug;37(2):184–6

Needle injuries as a cause of non-accidental injury [letter] Fearne C, et al. **Arch Dis Child** 1997 Aug;77(2):187

Intractable pelvic pain following Filshie clip application. Robson S, et al. **Aust N Z J Obstet Gynaecol** 1997 May; 37(2):242–3

Accidental squid jig ingestion. Read KO, et al. **Aust N Z J Surg** 1997 Oct;67(10):741–2

Laparoscopic removal of an electric wire from the bladder. Ejstrud P, et al. **Br J Urol** 1997 Aug;80(2):338

Unresolving pneumonia in a child? Look for an aspirated foreign body. de Silva GD, et al. **Ceylon Med J** 1996 Dec; 41(4):159

Retained vaginal gauze with unusual complication: a case report. Wu CC, et al. **Chang Keng I Hsueh** 1997 Mar; 20(1):62–5

Esophageal injuries. Bastos RB, et al. **Chest Surg Clin N Am** 1997 May;7(2):357–71 (57 ref.)

Missiles in the cardiovascular system. Symbas PN, et al. **Chest Surg Clin N Am** 1997 May;7(2):343–56 (28 ref.)

Lymphoreticular dissemination of metal particles after primary joint replacements. Shea KG, et al. **Clin Orthop** 1997 May;(338):219–26

Miniature disc battery in the nose: a dangerous foreign body. Alvi A, et al. **Clin Pediatr (Phila)** 1997 Jul;36(7):427–9 (5 ref.)

An unusual endoscopic procedure to remove a toothbrush from the stomach. Bastos I, et al. **Endoscopy** 1996 Aug; 28(6):525

Leadshot: an unusual cause of stent occlusion. England R, et al. **Endoscopy** 1996 Aug;28(6):527

Oesophageal intramural pseudodiverticulosis: a cause of dysphagia in a 10-year-old boy. Daud AS, et al. **Eur J Pediatr** 1997 Jul;156(7):530–2 (18 ref.)

In vitro effects of simulated gastric juice on swallowed metal objects: implications for practical management. Li PK, et al. **Gastrointest Endosc** 1997 Aug;46(2):152–5

Bezoars and foreign bodies of the stomach. Lee J. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):605–19 (64 ref.)

Prepyloric diaphragm detected following foreign body ingestion. Oak S, et al. **Indian J Gastroenterol** 1996 Jul; 15(3):109–10

Whisky bottle in the rectum [letter] Singla S, et al. **Indian J Gastroenterol** 1996 Jul;15(3):113

And now, a needle in the rectum [letter] Soni NK, et al. **Indian J Gastroenterol** 1997 Apr;16(2):77–8

Self-implanted subcutaneous penile balls—a new phenomenon in Western Europe. Rothschild MA, et al. **Int J Legal Med** 1997;110(2):88–91

Foreign body in the maxillary antrum. A case report. Sandu KB, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):110–1

Nasal foreign bodies in children. Tong MC, et al. **Int J Pediatr Otorhinolaryngol** 1996 May;35(3):207–11

Deliberate ingestion of foreign bodies by institutionalised psychiatric hospital patients and prison inmates. O'Sullivan ST, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):294–6

An unusual site to find a "swallowed" foreign body [letter] Hilton MM. **J Accid Emerg Med** 1996 Jul;13(4):304

Lost surgical specimens. Hill DJ, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb;4(2):277–9

Body piercing involving oral sites. Price SS, et al. **J Am Dent Assoc** 1997 Jul;128(7):1017–20

Spontaneous expulsion of an intravesical bullet. DiDomenico D, et al. **J Am Osteopath Assoc** 1997 Jul;97(7):415–6

Endobronchial cockroach: an unusual foreign body aspiration. Marlow TJ, et al. **J Emerg Med** 1997 Jul–Aug; 15(4):487–9

Thermal epiglottitis in adults: a new complication of illicit drug use. Mayo-Smith MF, et al. **J Emerg Med** 1997 Jul–Aug;15(4):483–5

Bronchial foreign bodies in adults. Lai YF, et al. **J Formos Med Assoc** 1996 Mar;95(3):213–7

Uncommon presentation of foreign body in the hypopharynx. Sen MK. **J Indian Med Assoc** 1995 May;93(5):176

Fortuitous discovery of an aspirated denture flange during bronchoscopy. Whitesides LM, et al. **J Oral Maxillofac Surg** 1997 Apr;55(4):408–10

Sand aspiration: a case report. Choy IO, et al. **J Pediatr Surg** 1996 Oct;31(10):1448–50 (5 ref.)

Foreign bodies in the tracheobronchial tree in Sudanese patients. Yagi HI. **J R Coll Surg Edinb** 1997 Aug; 42(4):235–7

Retained surgical needle in the perineum. Report of a case with a novel method of search and rescue. Kleinpeter SJ, et al. **J Reprod Med** 1997 May;42(5):303–5

A gastric "bee-zoar" [letter] [see comments] Lynch JP, et al. **N Engl J Med** 1997 Jun 12;336(24):1763–4. Comment in: N Engl J Med 1997 Aug 21;337(8):575; discussion 576.

Foreign body gingivitis: identification of the foreign material by energy-dispersive x-ray microanalysis. Gordon SC, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):571–6

Radiologic case study. Lead arthropathy. Giyanani R, et al. **Orthopedics** 1996 Jul;19(7):629–31

Conservative management of cocaine-packet ingestion: experience in Milan, the main Italian smuggling center of South American cocaine. Aldrighetti L, et al. **Panminerva Med** 1996 Jun;38(2):111–6

Case report of metallic mercury injury. Smith SR, et al. **Pediatr Emerg Care** 1997 Apr;13(2):114–6 (14 ref.)

Massive bronchoalveolar aspiration of barium sulfate during a radiologic study of the upper digestive tract [letter] López-Castilla JD, et al. **Pediatr Pulmonol** 1997 Aug; 24(2):126–7

Bronchoesophageal fistula secondary to aspiration of tongue adhesion button in a child with glossoptosis. Zunzunegui J, et al. **Pediatr Pulmonol** 1997 Feb;23(2):120–2

A new method for removal of metallic-ferromagnetic foreign bodies from the tracheobronchial tree. Mayr J, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):461–2

Management of oesophageal foreign bodies in a rural hospital in developing countries. Ansaloni L, et al. **Trop Doct** 1997 Jan;27(1):48–9

Double-knotted feeding tube in a child's bladder. Gonzalez CM, et al. **Urology** 1997 May;49(5):772

[Peroperative contamination of the peritoneal cavity with micro-foreign bodies] Duron JJ, et al. **Chirurgie** 1996; 121(3):175–9; discussion 179–80 (Eng. Abstr.) **(Fre)**

[Aspiration of a wasp in the right lower lobe of the lung] Kubh M. **Schweiz Med Wochenschr** 1997 Apr 12; 127(15):650 **(Ger)**

[Intracardiac foreign bodies] Masuda M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):571–3 (15 ref.) **(Jpn)**

[A rare foreign body of the tympanic cavity (acryl) necessitating surgical intervention in the middle ear] Lopatin BS, et al. **Vestn Otorinolaringol** 1997;(3):54 **(Rus)**

[A pearl in the nose—can it be "cured" with white pepper? (letter)] Eidenson Y. **Lakartidningen** 1997 May 7; 94(19):1782 **(Swe)**

COMPLICATIONS

Surgical clip as a nidus for a common bile duct stone: radiographic demonstration. Bradfield H, et al. **Abdom Imaging** 1997 May–Jun;22(3):293–4

An unusual case of small bowel obstruction. Verstocken A, et al. **Acta Chir Belg** 1996 Jul–Aug;96(4):168–9 (23 ref.)

Strangulated intestinal obstruction due to forgotten eroding laparotomy pad. Gökalp A, et al. **Acta Chir Hung** 1995–96; 35(3–4):271–6

Obstructive ileus caused by a swallowed foreign body (a "press-through" package) and preexisting adhesions. Imaizumi H, et al. **Am J Emerg Med** 1997 Jan;15(1):52–3

Retropharyngeal and epidural abscess from a swallowed fish bone. Tsai YS, et al. **Am J Emerg Med** 1997 Jul;15(4):381–2

Foreign body airway obstruction: when the Heimlich maneuver fails [letter] Westfal R. **Am J Emerg Med** 1997 Jan;15(1):103–5

Aortoesophageal conduit due to a foreign body. Jiraki K. **Am J Forensic Med Pathol** 1996 Dec;17(4):347–8

"Blister pack"-induced gastrointestinal hemorrhage. Chan FK, et al. **Am J Gastroenterol** 1997 Jan;92(1):172–3

Complete esophageal stricture resulting from a neglected foreign body. Sheen TS, et al. **Am J Otolaryngol** 1996 Jul–Aug;17(4):272–5

Delayed abscess formation in the wrist due to an unusual retained foreign body—a case report. Liew YM, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):867–8

Complications associated with 327 foreign bodies of the pharynx, larynx, and esophagus. Singh B, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):301–4

Chronic flexor tenosynovitis: missed diagnosis for a decade. Morris L, et al. **Ann Rheum Dis** 1996 Sep;55(9):597–9

A case of upper gastrointestinal bleeding secondary to a bread bag clip [letter] Norrie MW, et al. **Aust N Z J Med** 1997 Feb;27(1):75

An unusual case of trauma [letter] Cooke L. **Br Dent J** 1997 Aug 23;183(4):120

Subdural empyema resulting from displacement of a root into the maxillary antrum. Woolley EJ, et al. **Br Dent J** 1997 Jun 14;182(11):430–2

Penile constriction by foreign bodies: the use of a dental drill. Huang JK, et al. **Br J Urol** 1997 May;79(5):801

Occult liver abscess following clinically unsuspected ingestion of foreign bodies. Tsui BC, et al. **Can J Gastroenterol** 1997 Jul–Aug;11(5):445–8

Bay leaf perforation of Meckel's diverticulum [letter] Bell CD, et al. **Can J Surg** 1997 Apr;40(2):146–7 (9 ref.)

Late presentation of an intra-abdominal foreign body [see comments] Quantz MA, et al. **Can J Surg** 1997 Aug; 40(4):305–7. Comment in: Can J Surg 1997 Aug;40(4):249–50.

Importance of diffuse aspiration bronchiolitis caused by

chronic occult aspiration in the elderly. Matsuse T, et al. **Chest** 1996 Nov;110(5):1289–93

Severe coughing and gagging episode in an adolescent with a chronic laryngotracheal foreign body: a case report. Pitlanish ML, et al. **Clin Pediatr (Phila)** 1997 Jun; 36(6):357–9

Olive pit pyloric obstruction. Losanoff JE, et al. **Endoscopy** 1996 Nov;28(9):788–9

Sticker causing airway obstruction [letter] Mayr J, et al. **Eur J Pediatr** 1996 Mar;155(3):254–5

Extraction of an esophageal food impaction with a Roth retrieval net. Neustater B, et al. **Gastrointest Endosc** 1996 Jan;43(1):66–7

The use of a wire mesh stent in treating biliary obstruction caused by shrapnel. Silvis SE, et al. **Gastrointest Endosc** 1996 Dec;44(6):741–6

Prison doctors beware!. Winceslaus J. **Genitourin Med** 1997 Apr;73(2):121

Endotracheal intubation–induced upper airway obstruction. Warshawsky ME, et al. **Heart Lung** 1996 Jan–Feb; 25(1):69–71

Aerosol cap and rectovaginal fistula: unusual findings at routine cervical smear [letter] Meniru GI, et al. **Int J Gynaecol Obstet** 1996 Feb;52(2):179–80

Acute suppurative parotitis caused by a fish bone: a case report. Matsuo T. **Int J Oral Maxillofac Surg** 1997 Feb; 26(1):54

Palatal trauma: an unusual cause of a parotid sinus. Grieve JP, et al. **Int J Pediatr Otorhinolaryngol** 1996 Feb; 34(3):253–7

Colovesical fistula caused by chronic chicken bone perforation. Khan MS, et al. **Ir J Med Sci** 1996 Jan–Mar; 165(1):51–2 (19 ref.)

Aspiration pneumonia in a mentally handicapped patient due to a foreign body impacted in the pharynx: a near fatal outcome. Asgarali S, et al. **J Accid Emerg Med** 1996 Jul; 13(4):291

Unusual presentation of calcaneal osteomyelitis. Twenty–five years after inoculation. Rogoff RS, et al. **J Am Podiatr Med Assoc** 1997 Mar;87(3):125–30

Lymphedema due to chronic penile strangulation: a case report. Tanabe N, et al. **J Dermatol** 1996 Sep;23(9):648–51 (15 ref.)

Extracorporeal shockwave lithotripsy for kidney stone on surgical clip. Clark JY, et al. **J Endourol** 1997 Apr; 11(2):119–20

Intestinal perforation due to an ingested foreign body: laparoscopic management. Hebra A, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S95–8

An unusual foreign body in the larynx: a case report. Bhat NA, et al. **J Laryngol Otol** 1996 Dec;110(12):1164–5 (7 ref.)

An unusual cause of facial pain. de Carpentier JP, et al. **J Laryngol Otol** 1996 Aug;110(8):796–8

Acute oesophageal obstruction 18 months after an abdominal shotgun wound. Riley N, et al. **J Laryngol Otol** 1997 Feb; 111(2):177–8

Patients with retained transcranial knife blades: a high–risk group. Taylor AG, et al. **J Neurosurg** 1997 Oct;87(4):512–5

Spondylodiscitis and mediastinitis after esophageal perforation owing to a swallowed radiolucent foreign body. Fonga–Djimi H, et al. **J Pediatr Surg** 1996 May; 31(5):698–700

Mischievous magnets: unexpected health hazard in children. Lee SK, et al. **J Pediatr Surg** 1996 Dec;31(12):1694–5

Meckel's diverticulum–rare complications and review of the literature. Andrew DR, et al. **J R Army Med Corps** 1994 Oct;140(3):143–5

'Gossypiboma': an unusual cause of perinephric abscess. Bhat HS, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):277–8

Gossypiboma (retained surgical sponge) and recurrent bladder neck contracture after radical retropubic prostatectomy and bilateral pelvic lymph node dissection. Heffernan JP, et al. **J Urol** 1997 Apr;157(4):1356–7

Urinary tract infection with a neglected vaginal foreign body. Yu TJ. **J Urol** 1997 Apr;157(4):1475–6

Pediatric aerodigestive foreign body injuries are complications related to timeliness of diagnosis. Reilly J, et al. **Laryngoscope** 1997 Jan;107(1):17–20

Unusual foreign body causing quadriparesis: case report. Tomaras CR, et al. **Neurosurgery** 1997 Jun;40(6):1291–3; discussion 1293–4

Aortoesophageal fistula. Report of one case complicating foreing body ingestion with considerations about pathogenesis. Sonzogni A, et al. **Pathologica** 1996 Oct; 88(5):447–8

Refractory suppurative apical periodontitis due to cellulose fibers in the periapical tissues: case report. Sonntag KD, et al. **Pediatr Dent** 1996 May–Jun;18(3):245–7

Retained gallstone fragments following laparoscopic cholecystectomy [letter; comment] Hutchinson R. **Postgrad Med J** 1996 Nov;72(853):694. Comment on: Postgrad Med J 1995 Jun;71(836):382.

Incarceration of the penis by a metallic ring [letter] Wasadikar PP. **Postgrad Med J** 1997 Apr;73(858):255

Overlooked inhaled foreign bodies: late sequelae and the likelihood of recovery. al–Majed SA, et al. **Respir Med** 1997 May;91(5):293–6

Rhinolithiasis. Celikkanat S, et al. **Rhinology** 1997 Mar; 35(1):39–40

A case of tracheal obstruction during oesophageal removal of a foreign body. Shah MK, et al. **Singapore Med J** 1997 Mar;38(3):120–2

Neurogenic claudication, a delayed complication of a retained bullet. Kuijlen JM, et al. **Spine** 1997 Apr 15; 22(8):910–4

A case of choledocholithiasis with an endoclip nidus, 6 months after laparoscopic cholecystectomy. Shibata S, et al. **Surg Endosc** 1996 Nov;10(11):1097–8

[Chronic unilateral maxillary sinusitis caused by foreign bodies in the maxillary sinus] Tingsgaard PK, et al. **Ugeskr Laeger** 1997 Jul 7;159(28):4402–4 (Eng. Abstr.) **(Dan)**

[Mucormycosis–actinomycosis and caseous dental sinusitis associated with sinusal foreign body] Braun JJ, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(5):289–93 (22 ref.) (Eng. Abstr.) **(Fre)**

[Long–term unrecognized foreign body aspiration as the cause of pleural effusion] de Wall N, et al. **Med Klin** 1996 Sep 15;91(9):600–2 **(Ger)**

[Intestinal foreign body with sigmoid perforation in an area of carcinomatous stenosis: incidental finding or etiology?] Stiefel D, et al. **Swiss Surg** 1997;3(3):100–3 (Eng. Abstr.) **(Ger)**

[A case of bladder calculus due to a ruptured balloon fragment of a Foley catheter] Ohashi H. **Hinyokika Kiyo** 1997 Mar;43(3):227–8 (Eng. Abstr.) **(Jpn)**

[A case of swallowed fish bone–induced esophageal perforation and mediastinitis treated with pedicled omental graft] Masaki H, et al. **Kyobu Geka** 1996 May;49(5):376–9 (Eng. Abstr.) **(Jpn)**

[A case of recurrent choledocholithiasis due to foreign bodies (fish bones) after endoscopic sphincterotomy] Sakai T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):143–7 **(Jpn)**

[Penetrating brain injury and traumatic aneurysm caused by a nail gun] Sakuta Y, et al. **No Shinkei Geka** 1997 Apr; 25(4):357–62 (Eng. Abstr.) **(Jpn)**

[A foreign body as the cause of the occurrence of liver abscesses] Fasuliak PI, et al. **Klin Khir** 1995;(3):47 **(Rus)**

[Rare cause of obturation intestinal obstruction] Raĭchuk IE, et al. **Klin Khir** 1996;(6):49 **(Rus)**

[A case of trauma from a foreign body in the esophagus and pericardium] Sherstiuk BV, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):51 **(Rus)**

[A 2–year–old child with acute pulmonary process] Chouza M, et al. **An Esp Pediatr** 1996 Dec;45(6):653–4 **(Spa)**

[Lesions of the tracheobronchial tree after the aspiration of a tablet of ferrous sulfate] Hernández Martínez J, et al. **Arch Bronconeumol** 1997 Jan;33(1):50–1 (Eng. Abstr.) **(Spa)**

[Jejunal perforation caused by a fish bone (letter)] Córdoba López A, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):218–9 **(Spa)**

[Primary bronchial actinomycosis and foreign body] Mingrone H, et al. **Medicina (B Aires)** 1995;55(4):337–40 (5 ref.) (Eng. Abstr.) **(Spa)**

[Penetrating trauma by foreign body in the left heart ventricle] García–Lledó JA, et al. **Rev Esp Cardiol** 1997 Feb;50(2):137–9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Foreign bodies in the airway: eighteen–year retrospective study. Yamamoto S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:6–8

Indications for flexible versus rigid bronchoscopy in children with suspected foreign–body aspiration. Martinot A, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1676–9

Tumour fragment in the airway detected by intraoperative fibreoptic examination. Sakura S, et al. **Anaesth Intensive Care** 1996 Apr;24(2):265–6

Detection of accidental oesophageal intubation. Role of the anaesthetic assistant. Cameron AE, et al. **Anaesthesia** 1997 Aug;52(8):733–5

Pre–hospital use of the SCOTI device [letter; comment] Lockey D. **Anaesthesia** 1997 Feb;52(2):190. Comment on: Anaesthesia 1996 Oct;51(10):932–4.

SCOTI vs. Wee. An assessment of two oesophageal intubation detection devices. Lockey DJ, et al. **Anaesthesia** 1997 Mar;52(3):242–3

Rhinolith: an unusual case and an update. Ezsiás A, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):135–8

Pseudotumour due to surgical sponge: gossypiboma. Sahin–Akyar G, et al. **Australas Radiol** 1997 Aug; 41(3):288–91

Unlikely foreign bodies in unusual facial sites. Robinson PD, et al. **Br J Oral Maxillofac Surg** 1997 Feb;35(1):36–9

Ophthaproblem. Corneal rust ring. Sharma S. **Can Fam Physician** 1997 Aug;43:1353, 1360

Foreign body aspiration in children: experience from Ethiopia. Melaku G. **East Afr Med J** 1996 Jul;73(7):459–62

Pin ingestion and upper endoscopy. Oksüzoglu G, et al. **Endoscopy** 1996 Nov;28(9):785

Retained surgical sponge simulating intestinal tuberculosis. Gupta MM, et al. **Indian J Gastroenterol** 1997 Apr; 16(2):68–9

Removal of an intrauterine foreign body retained for 12 years. Roy KK, et al. **Int J Gynaecol Obstet** 1996 Aug;54(2):185–6

Clear plastic cups: a childhood choking hazard. Weiss RL, et al. **Int J Pediatr Otorhinolaryngol** 1996 Nov;37(3):243–51

Foreign body in the hypopharynx––an unusual presentation. Sheikh S, et al. **J Accid Emerg Med** 1996 Jul;13(4):292–3

The use of a metal detector to locate ingested metallic foreign bodies in children. Tidey B, et al. **J Accid Emerg Med** 1996 Sep;13(5):341–2

Magnetic resonance imaging characteristics of a lead pencil foreign body in the hand. Nelson EW, et al. **J Hand Surg [Am]** 1996 Jan;21(1):100–3

Metal implant localizers: frontiers and diagnostic feasibility. Trobec R, et al. **J Med Eng Technol** 1996 May–Jun; 20(3):134–40

Toothpick foreign body perforation and migration mimicking Crohn's disease in a child. O'Gorman MA, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):628–30

Retained foreign bodies. Kaiser CW, et al. **J Trauma** 1997 Jul;43(1):107–11

MRI features of neurosurgical gossypiboma: report of two cases. Mathew JM, et al. **Neuroradiology** 1996 Jul; 38(5):468–9

Atypical presentation of a vaginal foreign body. Le SQ, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):736

Index of suspicion. Hair tourniquet syndrome. Conners G. **Pediatr Rev** 1997 Aug;18(8):283, 285

Index of suspicion Case #1 presentation. Toledo–Valido M. **Pediatr Rev** 1996 Feb;17(2):65–6

Foreign body in the heart. Bedi HS, et al. **Tex Heart Inst J** 1997;24(2):140–1

Unusual foreign bodies of upper gastrointestinal tract. Nijhawan S, et al. **Trop Gastroenterol** 1995 Oct–Dec; 16(4):50–2

[Closed colonic perforation secondary to foreign body. Endoscopic diagnosis (letter)] Bourgeois F, et al. **Ann Chir** 1996;50(6):475 **(Fre)**

[Tracheobronchial foreign body in children. Is anamnesis alone enough to indicate tracheobronchoscopy?] Caversaccio MD, et al. **HNO** 1996 Aug;44(8):440–4 (Eng. Abstr.) **(Ger)**

[Foreign bodies in the gastrointestinal tract. Our cases and a review of the literature] Cosimati A, et al. **G Chir** 1996 Nov–Dec;17(11–12):581–5 (42 ref.) (Eng. Abstr.) **(Ita)**

[Diagnostic imaging of "body packers"] Ichikawa K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Feb; 57(3):89–93 (Eng. Abstr.) **(Jpn)**

[Arthroscopy of the elbow joint] Pawlas R, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):437–41 (Eng. Abstr.) **(Pol)**

[A case of a foreign body––surgical linen left in the abdominal cavity 25 years earlier] Emerich J, et al. **Ginekol Pol** 1996 May;67(5):274–6 (Eng. Abstr.) **(Pol)**

[Difficulties in bronchoscopic diagnosis of the foreign bodies located in lower respiratory tract in children] Pogorzelski A, et al. **Otolaryngol Pol** 1996;50(2):119–24 (Eng. Abstr.) **(Pol)**

[Foreign body imitating bronchial neoplasm] Ochmański W, et al. **Przegl Lek** 1997;54(1):70–2 (Eng. Abstr.) **(Pol)**

[Foreign bodies in the tracheobronchial tree. 12 years' experience] Agostinho M, et al. **Acta Med Port** 1997 Feb–Mar;10(2–3):151–5 (Eng. Abstr.) **(Por)**

[Localization and removal of metallic foreign bodies using LIT–2 foreign body locator] Pudov VI, et al. **Med Tekh** 1996 Jul–Aug;(4):23–8 (Eng. Abstr.) **(Rus)**

[Localizing foreign ferromagnetic bodies by means of the PF–02 ferroprobe polarity detector] Pudov VI, et al. **Med Tekh** 1996 Nov–Dec;(6):28–33 (Eng. Abstr.) **(Rus)**

[Inductance transducers for borderline localization of metallic foreign bodies] Pudov VI, et al. **Med Tekh** 1996 Sep–Oct;(5):31–5 (Eng. Abstr.) **(Rus)**

[The possibility for the carrying out of active deeds by the victim with the presence of foreign bodies in the brain] Ignat'ev NV. **Sud Med Ekspert** 1996 Oct–Dec;39(4):31–3 **(Rus)**

[An unusual foreign body of the oropharynx] Derepa VK. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):47 **(Rus)**

[Foreign bodies of the ear] Shanturov AG, et al. **Vestn Otorinolaringol** 1997;(2):4–8 (Eng. Abstr.) **(Rus)**

[Foreign–body aspiration] Pérez Prado MG, et al. **An Esp Pediatr** 1996 May;44(5):453–5 (Eng. Abstr.) **(Spa)**

[Tracheobronchial aspiration of foreign bodies in children] Sánchez Echániz J, et al. **An Esp Pediatr** 1996 Oct; 45(4):365–8 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Accidental bronchial intubation. An analysis of AIMS incident reports from 1988 to 1994 inclusive [see comments] McCoy EP, et al. **Anaesthesia** 1997 Jan;52(1):24–31. Comment in: Anaesthesia 1997 Jul;52(7):714–5. Comment in: Anaesthesia 1997 Jul;52(7):715.

Foreign body aspiration into the lower airway in Chinese adults. Chen CH, et al. **Chest** 1997 Jul;112(1):129–33

[ENT emergencies due to foreign bodies at a tertiary hospital] Pérez Obón J, et al. **An Otorrinolaringol Ibero Am** 1996; 23(5):451–60 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

A bewitching case of factitious disorder in Zimbabwe. Linde PR. **Gen Hosp Psychiatry** 1996 Nov;18(6):440–3

ETIOLOGY

Cut–off fragments of rubber caps of bottles of contrast material: foreign bodies in the drip infusion system [letter] Sakai O, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul; 17(6):1194–5

Wire fragments after needle localization. Montrey JS, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1267–9

Stent embolization during intracoronary stenting. Alfonso F, et al. **Am J Cardiol** 1996 Oct 1;78(7):833–5
Charcoal deposits in the esophageal and gastric mucosa. Lopes de Freitas JM, et al. **Am J Gastroenterol** 1997 Aug; 92(8):1359–60
Accidental bronchial intubation [letter; comment] Beasley JM. **Anaesthesia** 1997 Jul;52(7):714–5. Comment on: Anaesthesia 1997 Jan;52(1):24–31.
Changes in tracheal tube position during laparoscopic cholecystectomy [see comments] Inada T, et al. **Anaesthesia** 1996 Sep;51(9):823–6. Comment in: Anaesthesia 1997 Feb;52(2):189.
Accidental bronchial intubation [letter; comment] Lindsay WA. **Anaesthesia** 1997 Jul;52(7):715. Comment on: Anaesthesia 1997 Jan;52(1):24–31.
Another complication of radial artery cannulation [letter] Mayne D, et al. **Anaesthesia** 1997 Jan;52(1):89–90
Catheter fragments embolization. Monsuez JJ, et al. **Angiology** 1997 Feb;48(2):117–20
Foreign body impaction arising in adulthood: a result of neonatal repair of tracheo–oesophageal fistula and oesophageal atresia [letter; comment] Myers NA, et al. **Ann R Coll Surg Engl** 1997 Jan;79(1):73. Comment on: Ann R Coll Surg Engl 1996 May;78(3 Pt 1):217–20.
An iatrogenic arterial foreign body [see comments] Shah US, et al. **Br J Anaesth** 1996 Sep;77(3):430–1. Comment in: Br J Anaesth 1996 Dec;77(6):811.
Oxidized cellulose (Surgicel) granulomata mimicking tumour recurrence. Sandhu GS, et al. **Br J Neurosurg** 1996 Dec; 10(6):617–9
A lesson—a biter bit? [letter] Till K. **Br J Neurosurg** 1997 Jun;11(3):266
An unusual prostatic foreign body. Khalid MA, et al. **Br J Urol** 1996 Sep;78(3):467
Haematuria 2 years after transurethral resection of the prostate. Meganathan V, et al. **Br J Urol** 1997 Jul;80(1):149
Stent stranded in left main [editorial; comment] Linnemeier TJ. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):405. Comment on: Cathet Cardiovasc Diagn 1996 Aug;38(4):402–4.
Thrombotic occlusion of the coronary artery associated with accidental detachment of undeployed Palmaz–Schatz stent. Shiojima I, et al. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):360–2
Intranasal tooth in a patient with cleft lip and alveolus [letter; comment] Ranalli DN. **Cleft Palate Craniofac J** 1996 Nov; 33(6):530. Comment on: Cleft Palate Craniofac J 1996 Mar;33(2):157–9.
Crunchy peanut butter: a cause of foreign body aspiration in children. Roberts JR, et al. **Clin Pediatr (Phila)** 1996 Nov;35(11):591–2
Duodenal Endoclip migration after laparoscopic cholecystectomy: report of a case. Yu SC, et al. **Endoscopy** 1997 May;29(4):339
Peritoneal lithiasis and cliptomas following laparoscopic cholecystectomy. Makanjuola D, et al. **Eur J Radiol** 1996 Sep;23(2):121–5
Post–operative peritoneal adhesions and foreign bodies. Duron JJ, et al. **Eur J Surg Suppl** 1997;(579):15–6
Another disappearing bullet [letter] Beirouty ZA, et al. **Eye** 1996;10 (Pt 1):148–9
An impacted metallic clip at the ampulla causing ascending cholangitis. Venu RP, et al. **Gastrointest Endosc** 1997 May; 45(5):435–6 (12 ref.)
Ingested foreign body associated with oral implant treatment: report of a case. Worthington P. **Int J Oral Maxillofac Implants** 1996 Sep–Oct;11(5):679–81
Rectal sexual trauma including foreign bodies [editorial] Irizarry E, et al. **Int J STD AIDS** 1996 May–Jun;7(3):166–9 (21 ref.)
Increased risk in esophageal obstruction with slow–release medications. Simko V, et al. **J Assoc Acad Minor Phys** 1997;8(2):38–42
Laryngeal foreign body: an unusual complication of percutaneous tracheostomy. Kumar BN, et al. **J Laryngol Otol** 1997 Jul;111(7):652–3 (13 ref.)
Patient swallows removable partial denture: a clinical report. Dunn JR. **J Prosthet Dent** 1996 Dec;76(6):571–2
Aspiration of shattered windshield glass after blind nasotracheal intubation in a motor vehicle crash. Madhere S, et al. **J Trauma** 1997 Aug;43(2):353–6
Full intrusion of a tooth after facial trauma. Tung TC, et al. **J Trauma** 1997 Aug;43(2):357–9 (7 ref.)
Joint replacement and particulate wear debris [editorial] Nolan JF, et al. **Lancet** 1996 Sep 28;348(9031):839–40
Penetrating injury of the vertebral artery caused by a nail gun: preoperative embolization. Kaji T, et al. **Radiat Med** 1996 Mar–Apr;14(2):99–101
Foreign body in the heart. Bedi HS, et al. **Tex Heart Inst J** 1997;24(2):140–1
[An interesting case: late sequelae of a primary asymptomatic glass fragment injury of the wrist] Slodicka R, et al. **Handchir Mikrochir Plast Chir** 1996 Nov;28(6):306–8 (Eng. Abstr.) **(Ger)**
[Periapical lesions of mixed etiology: bacterial and foreign body] Bruno E, et al. **Minerva Stomatol** 1996 Dec; 45(12):563–8 (13 ref.) (Eng. Abstr.) **(Ita)**
[A case of the foreign body due to "coring"] Sakai T, et al. **Masui** 1996 Dec;45(12):1533–5 (Eng. Abstr.) **(Jpn)**
[A reused suction catheter was broken and produced a tracheobronchial foreign body] Tabuchi Y, et al. **Masui** 1996 Jun;45(6):756–9 (Eng. Abstr.) **(Jpn)**
[Dislocation of lens particles during cataract surgery] Milewski SA, et al. **Klin Oczna** 1996 Jan;98(1):13–6 (Eng. Abstr.) **(Pol)**
[A foreign body of the nose and ethmoid labyrinth extending to the nasopharynx] Lopatin BS, et al. **Vestn Otorinolaringol** 1997;(1):59–60 **(Rus)**
[A foreign body of the parapharyngeal space] Tselishchev VA. **Vestn Otorinolaringol** 1997;(1):60 **(Rus)**

HISTORY

A foreign body removed from the larynx with the aid of the autoscope. 1897 [classical article] Thorner M. **J Laryngol Otol** 1997 Jan;111(1):92
[Foreign bodies of the ear, pharynx and esophagus] Chumakov FI. **Vestn Otorinolaringol** 1997;(2):56–8 **(Rus)**

MORTALITY

Deaths due to foreign body aspiration in children: the continuing hazard of toy balloons. Lifschultz BD, et al. **J Forensic Sci** 1996 Mar;41(2):247–51

PARASITOLOGY

Cutaneous myiasis due to Dermatobia hominis: case report. Murdoch DR, et al. **N Z Med J** 1996 Dec 13; 109(1035):465–6

PATHOLOGY

Foreign body contamination during stent implantation. Whelan DM, et al. **Cathet Cardiovasc Diagn** 1997 Mar; 40(3):328–32
Analysis of particles in acetabular components from patients with osteolysis. Bloebaum RD, et al. **Clin Orthop** 1997 May; (338):109–18
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 33–1997. A 75–year–old man with chest pain, hemoptysis, and a pulmonary lesion [clinical conference] **N Engl J Med** 1997 Oct 23; 337(17):1220–6
[The suction attachment of a foreign body to the mucosa of the hard palate (a clinical case)] Vakhrina IA. **Stomatologiia (Mosk)** 1997;76(1):71 **(Rus)**
[Unusual finding of a foreign body during forensic medical expertise on a cadaver] Demiev IN, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):52–3 **(Rus)**

PHYSIOPATHOLOGY

Foreign bodies in the airway: eighteen–year retrospective study. Yamamoto S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:6–8
A new repair technique for penile paraffinoma: bilateral scrotal flaps. Jeong JH, et al. **Ann Plast Surg** 1996 Oct; 37(4):386–93
Atypical intranasal foreign body. Fini–Storchi I, et al. **Ear Nose Throat J** 1996 Dec;75(12):796–9
Dysrhythymia from an intrapericardial air gun pellet: a case report. Willemsen P, et al. **Eur J Cardiothorac Surg** 1996; 10(6):461–2
[Difficulties in bronchoscopic diagnosis of the foreign bodies located in lower respiratory tract in children] Pogorzelski A, et al. **Otolaryngol Pol** 1996;50(2):119–24 (Eng. Abstr.) **(Pol)**
[ENT emergencies due to foreign bodies at a tertiary hospital] Pérez Obón J, et al. **An Otorrinolaringol Ibero Am** 1996; 23(5):451–60 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Residual throat pack—a further method of prevention [letter] Burden RJ, et al. **Anaesthesia** 1997 Aug;52(8):806
Impact of community educational programmes on foreign body aspiration in Israel [letter; comment] Hussein A. **Eur J Pediatr** 1996 Jun;155(6):523. Comment on: Eur J Pediatr 1995 Oct;154(10):859–62.
Laparoscopic excision of benign dermoid cysts with controlled intraoperative spillage. Hessami SH, et al. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4):479–81

RADIOGRAPHY

Mammography of breasts in which catheter cuffs have been retained: normal, infected, and postoperative appearances. Ellis RL, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):713–5
Appearance of oxidized cellulose (Surgicel) on abdominal radiographs [letter] van Gelderen F, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1593
An intraoperative method of localizing a missing piece of a broken laparoscopic instrument. Ostrzenski A. **Am J Obstet Gynecol** 1997 Mar;176(3):726–7
Sand aspiration with near–drowning. Radiographic and bronchoscopic findings [see comments] Dunagan DP, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):292–5 (15 ref.). Comment in: N Engl J Med 1997 Oct 16;337(16):1175.
Radiographic detection of gravel in soft tissue. Chisholm CD, et al. **Ann Emerg Med** 1997 Jun;29(6):725–30
Prevertebral calcification masquerading as a hypopharyngeal foreign body. Talmi YP, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):435–6
Bamboo skewer perforation of the bowel: computed tomography appearances. Peh WC, et al. **Australas Radiol** 1997 Aug;41(3):308–10
Foreign bodies and radiographs [letter] Dyer TA, et al. **Br Dent J** 1997 Mar 22;182(6):208
Aspiration of a tooth in a patient with a tracheostomy [letter] Steelman R, et al. **Clin Pediatr (Phila)** 1997 May; 36(5):309–10
Computed tomography of malpositioned thoracostomy drains: a pictorial essay. Cameron EW, et al. **Clin Radiol** 1997 Mar;52(3):187–93 (9 ref.)
Atypical intranasal foreign body. Fini–Storchi I, et al. **Ear Nose Throat J** 1996 Dec;75(12):796–9
Accidental embolization of an intravenous cannula in the upper limb: retrieval following computed tomography localization. Bloom AI, et al. **Eur J Emerg Med** 1996 Jun; 3(2):106–7
An 8–year–old girl with an abdominal mass.Pica. Yogev Y, et al. **Eur J Pediatr** 1997 Mar;156(3):243–4
Foreign body simulating a hard palate lesion in a child. Tseng E, et al. **Int J Pediatr Otorhinolaryngol** 1996 Dec 20; 38(2):169–74
Flat–panel x–ray detector using amorphous silicon technology. Reduced radiation dose for the detection of foreign bodies. Völk M, et al. **Invest Radiol** 1997 Jul; 32(7):373–7
Foreign body aspiration [letter; comment] Gettleman L. **J Am Dent Assoc** 1996 Dec;127(12):1698, 1700. Comment on: J Am Dent Assoc 1996 Aug;127(8):1224–9.
Intrapulmonary foreign body simulating pulmonary AVM: CT findings. Davis SW, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):769–70
CT of retained surgical sponges (textilomas): pitfalls in detection and evaluation. Kopka L, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):919–23
An unusual foreign body in the post–nasal space: a case report. al–Ayoubi A, et al. **J Laryngol Otol** 1997 Aug; 111(8):775
Fractured tracheostomy tube: an overlooked foreign body. Gupta SC, et al. **J Laryngol Otol** 1996 Nov;110(11):1069–71 (14 ref.)
Glass in the frontal sinus: report of three cases. Onerci M, et al. **J Laryngol Otol** 1997 Feb;111(2):156–8 (3 ref.)
A metal ring embedded in the hypopharynx. Braverman I, et al. **J Otolaryngol** 1997 Jun;26(3):201–2
An unusual case of nail gun injury: penetrating neck wound with nail retention in the right pleural cavity. Alberico G, et al. **J Trauma** 1997 Jul;43(1):153–6
Sheath detachment during coronary arteriogram. Coy J, et al. **Mil Med** 1996 Oct;161(10):632–4
Images in clinical medicine. Sand as a foreign body [see comments] [published erratum appears in N Engl J Med 1997 Oct 16;337(16):1175] Petitti N. **N Engl J Med** 1997 Jul 10;337(2):96. Comment in: N Engl J Med 1997 Oct 16;337(16):1175.
Duplicate publication and correction [letter; comment] Petitti N. **N Engl J Med** 1997 Oct 16;337(16):1175. Comment on: N Engl J Med 1997 Jul 10;337(2):96. Comment on: Am J Respir Crit Care Med 1997 Jul;156(1):292–5.
Removal of radiopaque foreign bodies [letter] Fisher H. **N J Med** 1996 Aug;93(8):8
Retained gauze in the sinonasal cavities: plain film and CT findings. Pekanan P, et al. **Neuroradiology** 1996 May; 38(4):381–2
Dual microcatheter and guidewire snare technique for retrieval of intravascular foreign body: technical note. Terada T, et al. **Neuroradiology** 1996 Oct;38(7):615–7
Miniature C–arm imaging: an in vitro study of detecting foreign bodies in the emergency department. Cohen DM, et al. **Pediatr Emerg Care** 1997 Aug;13(4):247–9
Choking on crayon. Swischuk LE. **Pediatr Emerg Care** 1997 Aug;13(4):285–6
An unusual foreign body: catfish spine. Baker DH. **Pediatr Radiol** 1997 Jul;27(7):585
Esophageal 'stars': a sinister foreign body ingestion. Vassilev BN, et al. **South Med J** 1997 Feb;90(2):211–4
Large radiolucent tracheal foreign body found by CT scan caused dyspnea: an admonition on flexible fiberscopic foreign body removal. Ikeda M, et al. **Surg Endosc** 1996 Feb;10(2):164–5
Impaction of foreign body in right coronary ostium. Dal A, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):150–1
[The body–packer syndrome] Teijink JA, et al. **Ned Tijdschr Geneeskd** 1997 Mar 1;141(9):433–7 (Eng. Abstr.) **(Dut)**
[Primary unrecognized gunshot wound in the frontal skull base] Keller A, et al. **Laryngorhinootologie** 1996 Dec; 75(12):772–4 (Eng. Abstr.) **(Ger)**
[Glass fragment in the corpus adiposum infrapatellare] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):576–8 **(Ger)**
[Detection of orbital foreign bodies by CT: are plain radiographs of foreign bodies still useful?] Trommer G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):487–92 (Eng. Abstr.) **(Ger)**
[The computed tomographic demonstration of duodenal perforation caused by a fish bone] Völk M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):198–200 (10 ref.) **(Ger)**
[A case from practice (370). Rectal foreign body] Kleeman D, et al. **Schweiz Rundsch Med Prax** 1996 Dec 17; 85(51–52):1666–8 **(Ger)**
[Interventional radiology in thoracic emergencies] Florio FP, et al. **Minerva Med** 1997 Jan–Feb;88(1–2):31–8 (16 ref.) (Eng. Abstr.) **(Ita)**

[Use of computerized tomography for localization of a foreign body impacted into the cranium] Pelc R, et al. **Wiad Lek** 1996;49(1–6):59–65 (Eng. Abstr.) **(Pol)**

[Intrabronchial foreign body in adults: usefulness of computerized tomography] Domingo Morera JA, et al. **Arch Bronconeumol** 1997 Apr;33(4):201–3 (Eng. Abstr.) **(Spa)**

[Recurrent ingestion of foreign bodies. Unusual presentation of Munchausen by Proxy syndrome] Gómez De Terreros I, et al. **Child Abuse Negl** 1996 Jul;20(7):613–20 (Eng. Abstr.) **(Spa)**

SURGERY

Unusual palpebral foreign bodies. Uchinuma E, et al. **Aesthetic Plast Surg** 1997 Jul–Aug;21(4):258–61

Subungual splinter removal [letter] Schwartz GR, et al. **Am J Emerg Med** 1997 May;15(3):330–1

Video–assisted thoracoscopy in the evaluation of penetrating thoracic trauma [letter; comment] Boyce KE, et al. **Ann R Coll Surg Engl** 1997 May;79(3):233–4. Comment on: Ann R Coll Surg Engl 1996 Sep;78(5):463–5.

A new technique for removal of intraarticular bullet fragments from the femoral head. Williams MS, et al. **Bull Hosp Jt Dis** 1997;56(2):107–10

Leave no stone unturned [editorial; comment] Stoller JL. **Can J Surg** 1997 Aug;40(4):249–50. Comment on: Can J Surg 1997 Aug;40(4):300–4. Comment on: Can J Surg 1997 Aug;40(4):305–7.

Contralateral loop snare removal of a ruptured and entrapped angioplasty balloon. Braun MA, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec;19(6):428–30

Self–introduction of unusual foreign body into the urethra: a case report. Lee JD, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Dec;56(6):440–2

Laryngeal foreign body in a former tracheotomy patient. Spiegel JR, et al. **Ear Nose Throat J** 1997 Aug;76(8):490

A novel approach to the removal of sharp foreign bodies from the stomach using a combined endoscopic and laparoscopic technique. Iafrati MD, et al. **Gastrointest Endosc** 1996 Jan;43(1):67–70

Endoscopic removal of an entrapped foreign body from the sigmoid colon using a needle knife. Ramirez FC, et al. **Gastrointest Endosc** 1996 Jul;44(1):84–5

Endoscopic retrieval of impacted spigot from gastrostomy tube [letter] Rathi P, et al. **Indian J Gastroenterol** 1997 Jul;16(3):120–1

Screwing a carrot out of the rectum [letter] Vashist MG, et al. **Indian J Gastroenterol** 1997 Jul;16(3):120

A technique for removal of fractured locking screws from an intramedullary nail. Davies NM, et al. **Injury** 1997 Mar; 28(2):159

An unorthodox method of removing a Küntscher nail. Ting P, et al. **Injury** 1996 Dec;27(10):750–2

Endoscopic retrieval of a surgical gauze from the common bile duct. Cipolletta L, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):58–61

Removal of minute foreign bodies. Adeniran A, et al. **J Accid Emerg Med** 1995 Dec;12(4):298–9

Oesophageal "cross"—a sinister foreign body. Losanoff JE, et al. **J Accid Emerg Med** 1997 Jan;14(1):54–5

Role of regional anaesthesia and a modified technique of fish–hook removal. Abid SA, et al. **J Indian Med Assoc** 1996 Aug;94(8):323

Retained fragment of a lumbar subarachnoid drain. Simmerman SR, et al. **J Neurosurg Anesthesiol** 1997 Apr; 9(2):159–61

Removal of a retained T–tube from the common bile duct. Muhammad SR, et al. **JPMA J Pak Med Assoc** 1997 Jul; 47(7):194–5

Surgical office procedures. Cunningham SJ. **Pediatr Ann** 1996 Dec;25(12):699–704 (4 ref.)

Optimal time to restart conventional CAPD after laparoscopic revision of CAPD catheters [letter] Lin YP, et al. **Perit Dial Int** 1996 Sep–Oct;16(5):538–9

Strangulation of the scrotum. Zermann DH, et al. **Scand J Urol Nephrol** 1997 Aug;31(4):401–2

Potential large vessel injury during thoracolumbar pedicle screw removal. A case report. Vanichkachorn JS, et al. **Spine** 1997 Jan 1;22(1):110–3

Large radiolucent tracheal foreign body found by CT scan caused dyspnea: an admonition on flexible fiberscopic foreign body removal. Ikeda M, et al. **Surg Endosc** 1996 Feb;10(2):164–5

Laparoscopic removal of a swallowed toothbrush. Wishner JD, et al. **Surg Endosc** 1997 May;11(5):472–3 (7 ref.)

Microsurgical removal of a free segment of microcatheter in the anterior circulation as a complication of embolization. Inci S, et al. **Surg Neurol** 1996 Dec; 46(6):562–6; discussion 566–7 (25 ref.)

An unusual lawn mower injury. Logar M, et al. **Unfallchirurg** 1996 Feb;99(2):152–3

Ingested foreign bodies of the gastrointestinal tract: retrospective analysis of 542 cases. Velitchkov NG, et al. **World J Surg** 1996 Oct;20(8):1001–5

[An unusual case of vascular injury in the lower extremity] Malý I, et al. **Rozhl Chir** 1996 May;75(5):249–51 (Eng. Abstr.) **(Cze)**

[Late abscess after laparoscopic cholecystectomy caused by lost gallstones] Zarras K, et al. **Chirurg** 1996 Oct; 67(10):1047–9 (Eng. Abstr.) **(Ger)**

[Accidental dirt tattooing. Removal with Q–switched ruby laser] Hellwig S, et al. **HNO** 1996 Oct;44(10):592–4 (Eng. Abstr.) **(Ger)**

[Facial injury caused by an umbrella spoke] Mühler G. **HNO** 1996 Oct;44(10):590–1 (Eng. Abstr.) **(Ger)**

[Primary therapy refractory osteomyelitis of the sternum after aortocoronary bypass operation—a case report] Fialka C, et al. **Zentralbl Chir** 1996;121(10):866–8 (Eng. Abstr.) **(Ger)**

[Endobronchial foreign bodies: surgical indications] Buonsanto A, et al. **Minerva Chir** 1996 Nov; 51(11):997–1003 (Eng. Abstr.) **(Ita)**

[Retrieval of intravascular catheter fragment remaining for 15 years—a case report] Toda R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):51–4 (Eng. Abstr.) **(Jpn)**

[Emergency surgery making use of video–assisted thoracoscopy—2 case reports] Yamada K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):632–4 (Eng. Abstr.) **(Jpn)**

[A common bile duct foreign body migrated from a war wound] Inada T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug;94(8):549–51 **(Jpn)**

[A penetrating cranio–facial injury due to a nail–gun accident] Inoha S, et al. **No Shinkei Geka** 1997 Jul; 25(7):635–9 (Eng. Abstr.) **(Jpn)**

[The reason for the removal of springing foreign bodies in the esophagus] Maj J. **Otolaryngol Pol** 1996;50(2):130–4 (Eng. Abstr.) **(Pol)**

[A rare case of a foreign body in the common bile duct] Shal'kov EL, et al. **Klin Khir** 1996;(9):51 **(Rus)**

[Suture retractors for flap wounds in removing foreign bodies] Mamedov AG. **Vestn Khir Im I I Grek** 1996; (1):88–9 **(Rus)**

[A large foreign body filling the nose, nasopharynx, maxillary sinus and pterygopalatine fossa] Starokha AV, et al. **Vestn Otorinolaringol** 1997;(4):53–4 **(Rus)**

[Acute poisoning caused by cocaine in a patient carrying cocaine packages in the intestine: indication for surgical treatment (letter) (see comments)] García Castaño J, et al. **Med Clin (Barc)** 1996 Nov 23;107(18):718–9. Comment in: Med Clin (Barc) 1997 Jun 14;109(3):117. **(Spa)**

THERAPY

Esophageal foreign bodies: safety and efficacy of Foley catheter extraction of coins. Harned RK 2nd, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):443–6

Angiography/interventional case of the day. Fractured central venous catheter. LiPuma JP, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):258, 261–2

Percutaneous removal of a fractured and extruded telectronics accufix atrial retention wire: new approach preserving pacing function. Saito H, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1334–6

Using local anesthetics to expel foreign objects in the foot [letter] Ahearn MA. **Am Fam Physician** 1997 Mar; 55(4):1073

Cocaine balloon aspiration: successful removal with bronchoscopy. Cobaugh DJ, et al. **Am J Emerg Med** 1997 Sep;15(5):544–6

Removal of nasal foreign bodies in the pediatric population. Kadish HA, et al. **Am J Emerg Med** 1997 Jan;15(1):54–6

Acute esophageal food impaction treated by water–soluble contrast esophagography with maneuvers. Ko SF, et al. **Am J Emerg Med** 1996 Oct;14(6):604–5

Endoscopic removal of a toothpick from the transverse colon. Monkemuller KE, et al. **Am J Gastroenterol** 1996 Nov;91(11):2438–9

Successful endoscopic removal of a severed, impacted Dormia basket. Schutz SM, et al. **Am J Gastroenterol** 1997 Apr;92(4):679–81 (8 ref.)

Thoracoscopic retrieval of foreign bodies after penetrating chest trauma. Bartek JP, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1783–5

An unusual foreign body: a whole fish in the throat. Vele DD, et al. **Auris Nasus Larynx** 1997 Apr;24(2):207–9

Up your nose. Quick and somewhat dirty method of removing foreign bodies from children's noses. Manca D. **Can Fam Physician** 1997 Feb;43:223

Removal of fish–hooks. Reid AJ. **Can Fam Physician** 1997 Jun;43:1063

Percutaneous retrieval of a retained Jackson–Pratt drain fragment. Namyslowski J, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec;19(6):446–8

Re: in situ formation of a loop snare for retrieval of a foreign body without a free end [letter] Thomas S, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):163–4

Percutaneous extraction of a fractured, exposed atrial "J" lead retention wire. Caudill CC, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):342–6

Extraction of fully deployed coronary stents. Eisenhauer AC, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):393–401

Successful retrieval of unexpanded Palmaz–Schatz stent from left main coronary artery [see comments] Kobayashi Y, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):402–4. Comment in: Cathet Cardiovasc Diagn 1996 Aug;38(4):405.

Innovative use of a long sheath for removal of a knotted pacing electrode [letter] Naik AM, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):111–2

Therapeutic endoscopy: removal of gastrointestinal foreign bodies in children. Seo JK. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 May–Jun;38(3):183–6

Crunchy peanut butter: a cause of foreign body aspiration in children. Roberts JR, et al. **Clin Pediatr (Phila)** 1996 Nov;35(11):591–2

Retrieval of a dental screwdriver from the cecum [letter] Borum ML, et al. **Dig Dis Sci** 1997 Apr;42(4):861

Foreign body aspiration in children: experience from Ethiopia. Melaku G. **East Afr Med J** 1996 Jul;73(7):459–62

Unusual rectal foreign body: treatment using argon–beam coagulation. Glaser J, et al. **Endoscopy** 1997 Mar; 29(3):230–1

Percutaneous release of Dormia baskets impacted in the common bile duct. Halfhide BC, et al. **Endoscopy** 1997 Jan; 29(1):48

Removal of a mango seed from the esophagus using a specially designed retrieval device. Misra SP, et al. **Endoscopy** 1996 May;28(4):399

Novel methods of management of trapped dormia baskets in the pancreatic and biliary ducts [letter; comment] Mutignani M, et al. **Endoscopy** 1997 Feb;29(2):129–30. Comment on: Endoscopy 1995 Jun;27(5):384–7.

Retrieval of an impacted mechanical lithotripsy basket [letter] Ng EK, et al. **Endoscopy** 1997 Feb;29(2):128

Can the expandable esophageal metal Endocoil stent be safely removed? Segalin A, et al. **Endoscopy** 1997 May;29(4):337–9

Laser–assisted removal of a foreign body from the esophagus. Weber FX, et al. **Endoscopy** 1996 Jun;28(5):464

A simple latex protector hood for safe endoscopic removal of sharp–pointed gastroesophageal foreign bodies. Bertoni G, et al. **Gastrointest Endosc** 1996 Oct;44(4):458–61

Device choice and experience level in endoscopic foreign object retrieval: an in vivo study. Faigel DO, et al. **Gastrointest Endosc** 1997 Jun;45(6):490–2

Balloon extraction of an impacted meat bolus after argon beam coagulation [letter] Lingenfelser T. **Gastrointest Endosc** 1997 Aug;46(2):195

Colonoscopic removal of chicken bones impacted in the sigmoid in two patients [letter] Rex DK, et al. **Gastrointest Endosc** 1997 Aug;46(2):193–5

An esophageal foreign body impaction from a Tums E–X tablet. Wisniewski RM, et al. **Gastrointest Endosc** 1997 Jun; 45(6):518–21

Coins can be safely removed from the esophagus by Foley's catheter without fluoroscopic control. Agarwala S, et al. **Indian Pediatr** 1996 Feb;33(2):109–11

Management of undeflatable Foley catheter balloons in women. Gülmez I, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1997;8(2):81–4 (25 ref.)

Removal of fishbones in the throat [letter] Alfonsi P, et al. **J Accid Emerg Med** 1996 May;13(3):230

Pharyngeal coin removal in children. Mason SM. **J Accid Emerg Med** 1997 May;14(3):175–6

Removal of fish bones from the throat. Nathan B, et al. **J Accid Emerg Med** 1995 Dec;12(4):303

Catfish spine injury of the foot [letter] Fredette SE, et al. **J Am Podiatr Med Assoc** 1997 Apr;87(4):187–9

Palliation of esophageal cancer with a self–expanding, silicone–covered stent and a technique for stent retrieval. Nayyar S, et al. **J Assoc Acad Minor Phys** 1996;7(3):78–82

Conservative management of pediatric distal esophageal coins. Conners GP, et al. **J Emerg Med** 1996 Nov–Dec; 14(6):723–6

Magnets. Richards JW Jr. **J Fam Pract** 1996 Sep;43(3):307

Combined forceps and catheter extraction of an oesophageal foreign body. al–Shahi R, et al. **J Laryngol Otol** 1997 Jun; 111(6):583–4

Management of esophageal coins in children by bougienage: a case report. Haines JD Jr. **J Okla State Med Assoc** 1996 Feb;89(2):60–1

Endourologic removal of upper airway foreign objects: case report. Horowitz M, et al. **J Pediatr Surg** 1996 Dec; 31(12):1727–8

Nonsurgical retrieval of embolized umbilical catheters in premature infants. Simon–Fayard EE, et al. **J Perinatol** 1997 Mar–Apr;17(2):143–7

Management of colorectal foreign bodies. Cohen JS, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):312–5

Management of foreign bodies of the rectum: report of 21 cases. Kouraklis G, et al. **J R Coll Surg Edinb** 1997 Aug; 42(4):246–7

Endoscopic removal of difficult bladder foreign bodies. Gaffney CM. **J S C Med Assoc** 1996 Jan;92(1):9–10

Re: Fogarty catheter extraction of unusual urethral foreign bodies [letter; comment] Geraniotis EG. **J Urol** 1997 Jan; 157(1):268. Comment on: J Urol 1996 Apr;155(4):1374–5.

Delayed retrieval of fragment after needle breakage during intracavernous self–injection. Greenstein A, et al. **J Urol** 1997 Mar;157(3):953

Use of a large–diameter coring needle to remove a foreign body [letter] Althaus SJ, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):481–2

Removal of a fractured retention wire of an Accufix "J" pacemaker lead with an Amplatz goose neck snare. Saibil EA. **J Vasc Interv Radiol** 1996 May–Jun;7(3):367–9

Management of pediatric aspirated foreign bodies. Deskin R, et al. **Laryngoscope** 1997 Apr;107(4):540–3

Laser–assisted removal of a foreign body impacted in the esophagus. Lam YH, et al. **Lasers Surg Med** 1997; 20(4):480–2

Problems with the retrieval of long–standing inhaled foreign bodies in children. Barbato A, et al. **Monaldi Arch Chest Dis** 1996 Oct;51(5):419–20

Prevention and management of aerodigestive foreign body injuries in childhood. Reilly JS, et al.
Pediatr Clin North Am 1996 Dec;43(6):1403–11 (13 ref.)
A literature-based comparison of three methods of pediatric esophageal coin removal. Conners GP.
Pediatr Emerg Care 1997 Apr;13(2):154–7 (34 ref.)
Snare retrieval of migrated ventriculoatrial shunt. James CA, et al. **Pediatr Radiol** 1997 Apr;27(4):330–2
Percutaneous retrieval of a fractured biliary guidewire from a reduced liver graft. Khong PL, et al. **Pediatr Radiol** 1997 Mar;27(3):253–4
Bronchial foreign body: should bronchoscopy be performed in all patients with a choking crisis? Barrios Fontoba JE, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):118–20
One-stage operation for treatment after delayed diagnosis of thoracic esophageal perforation. Balkan ME, et al.
Scand Cardiovasc J 1997;31(2):111–5 (40 ref.)
Bronchoscopic foreign body removal using a cystoscope rod lens. Hodges AM, et al. **Trop Doct** 1997 Apr;27(2):113
Balloon-wire retrieval of a migrated urethral stent in the early postoperative period [letter; comment] Smith DP, et al. **Urology** 1997 Jul;50(1):160–1. Comment on: Urology 1996 Jun;47(6):915–7.
[Removal of bronchial foreign bodies by suction with a bronchoscope] Mita Y, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 Apr;35(4):442–6 (Eng. Abstr.) **(Jpn)**
[Laparoscopic retrieval of a dislocated ventriculoperitoneal shunt catheter: report of three cases and a review of the literature] Hirano Y, et al. **No Shinkei Geka** 1997 Jul; 25(7):629–33 (19 ref.) (Eng. Abstr.) **(Jpn)**
[Intravenous catheter embolism] Panichkin IuV, et al.
Klin Khir 1997;(1):18–22 (Eng. Abstr.) **(Rus)**
[Localization and removal of metallic foreign bodies using LIT-2 foreign body locator] Pudov VI, et al.
Med Tekh 1996 Jul–Aug;(4):23–8 (Eng. Abstr.) **(Rus)**
[A foreign body of the esophagus and stomach in a child] Sabirova MM, et al. **Vestn Khir Im I I Grek** 1996;155(2):70 **(Rus)**
[Foreign bodies of the ear] Shanturov AG, et al.
Vestn Otorinolaringol 1997;(2):4–8 (Eng. Abstr.) **(Rus)**
[Extraction of yuxtaureteral suture, with ureteroscopy. A clinical case] Fernández Fernández A, et al.
Actas Urol Esp 1997 Jan;21(1):72–4 (Eng. Abstr.) **(Spa)**
[A new solution to the retained Foley catheter] Torrús Tendero P, et al. **Arch Esp Urol** 1997 Mar;50(2):183–5 (Eng. Abstr.) **(Spa)**
[Endoscopic treatment of esophageal foreign bodies (letter)] Jover R, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):885–6 **(Spa)**

ULTRASONOGRAPHY

Sonographic detection of ingested foreign bodies in the inferior vena cava. Rioux M, et al. **Abdom Imaging** 1997 Jan–Feb;22(1):108–10
Configuration of the SCOTI device with different tracheal tubes [see comments] Nandwani N, et al. **Anaesthesia** 1996 Oct;51(10):932–4. Comment in: Anaesthesia 1997 Feb;52(2):190.
Ultrasound for the detection of foreign bodies in human tissue. Hill R, et al. **Ann Emerg Med** 1997 Mar;29(3):353–6
Ultrasound retrieval of foreign bodies [editorial; comment] Storrow AB, et al. **Ann Emerg Med** 1997 Jun;29(6):779–8 . Comment on: Ann Emerg Med 1997 Jun;29(6):731–4.
Ultrasound-guided retrieval of small foreign objects in subcutaneous tissue [see comments] Turner J, et al.
Ann Emerg Med 1997 Jun;29(6):731–4. Comment in: Ann Emerg Med 1997 Jun;29(6):779–80.
Locating an arterial foreign body by ultrasonography [letter; comment] Ball DR, et al. **Br J Anaesth** 1996 Dec;77(6):811 . Comment on: Br J Anaesth 1996 Sep;77(3):430–1.
Sonohysterography for detection of a retained laminaria fragment. Bussey LA, et al. **J Ultrasound Med** 1996 Mar; 15(3):249–51
Wooden foreign bodies in the hand. Pai VS. **N Z Med J** 1997 Jun 13;110(1045):215
[Diagnostic ultrasonography of perforating foreign bodies of the digestive tract] Coulier B. **J Belge Radiol** 1997 Feb; 80(1):1–5 (Eng. Abstr.) **(Fre)**
[Ultrasound imaging of foreign bodies--an experimental study] Grechenig W, et al. **Biomed Tech (Berl)** 1996 Nov; 41(11):308–15 (Eng. Abstr.) **(Ger)**
[The role of ultrasound in identification and localization of foreign bodies in the soft tissues] Barzilai M. **Harefuah** 1996 Sep;131(5–6):209–11 **(Heb)**
[Diagnostic and surgical problems in a case of post-traumatic retention of a foreign body in the submandibular gland] Becelli R, et al. **Minerva Stomatol** 1995 Nov;44(11):539–42 (Eng. Abstr.) **(Ita)**
[Special usefulness of ultrasonography in a case of multiple foreign bodies in soft tissues] Nardi P, et al.
Radiol Med (Torino) 1996 Nov;92(5):640–1 **(Ita)**

VETERINARY

Paroxysmal sneezing in a 7-year-old cat. Gabor L, et al. **Aust Vet J** 1997 May;75(5):320, 328, 335
Gravel obstruction in the abomasum or duodenum of two cows. Cebra CK, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1294–6
Use of tenoscopy for management of septic tenosynovitis caused by a penetrating porcupine quill in the synovial sheath surrounding the digital flexor tendons of a horse. Magee AA, et al. **J Am Vet Med Assoc** 1997 Jun 15; 210(12):1768–70
Lead poisoning in a dog. Williams JH, et al.
J S Afr Vet Assoc 1990 Dec;61(4):178–81
Zinc toxicosis in a Celebes ape (Macaca nigra) following ingestion of pennies. Murray S, et al. **J Zoo Wildl Med** 1997 Mar;28(1):101–4
Traumatic reticulopericarditis caused by a non-metallic object. Katunguka-Rwakishaya E.
Trop Anim Health Prod 1996 Nov;28(4):317
Unusual cause of rumen stasis in a cow [letter] Clarke PJ. **Vet Rec** 1997 Jun 14;140(24):636
Unusual foreign body in a cat [letter] Cordery R.
Vet Rec 1997 Feb 8;140(6):160
'Sudden death' in a dairy heifer [letter] Davies EV.
Vet Rec 1997 Aug 23;141(8):204
Influence of diet on the occurrence of intraepithelial microabscesses and foreign bodies in the ruminal mucosa of reindeer calves (Rangifer tarandus tarandus). Josefsen TD, et al. **Zentralbl Veterinarmed A** 1997 Jul;44(5):249–57
[Lameness in a dog following gunshot wound; case report and management protocol] Maarschalkerweerd RJ, et al. **Tijdschr Diergeneeskd** 1996 Dec 15;121(24):712–5 (Eng. Abstr.) **(Dut)**
[Duodenal perforation caused by Flippo's (letter)] Vaandrager AB. **Tijdschr Diergeneeskd** 1996 Nov 1; 121(21):624–5 **(Dut)**
[Clinical case. Cairn terrier, female, aged seven] Engelke A. **Tierarztl Prax** 1996 Oct;24(5):436–7, 522–3 **(Ger)**
[The ultrasonic diagnosis of foreign bodies in the dog and cat] Kramer M, et al. **Tierarztl Prax** 1996 Aug;24(4):378–84 (Eng. Abstr.) **(Ger)**

FOREIGN-BODY GRANULOMA see **GRANULOMA, FOREIGN-BODY**

FOREIGN-BODY MIGRATION

Removal of a broken solid intramedullary interlocking nail. A technical note. Hellemondt FJ, et al.
Acta Orthop Scand 1996 Oct;67(5):512
Foreign body in the trachea: fragmentation and migration. Lele SY, et al. **Am J Otolaryngol** 1997 Jul–Aug;18(4):274–6
Intraarticular migration of a femoral interference fit screw. A complication of anterior cruciate ligament reconstruction. Sidhu DS, et al. **Am J Sports Med** 1997 Mar–Apr;25(2):268–71
Spontaneous migration of subcutaneous central venous catheters. Collin GR, et al. **Am Surg** 1997 Apr;63(4):322–6
Migration of silicone through the fibrous capsules of mammary prostheses. Beekman WH, et al.
Ann Plast Surg 1997 May;38(5):441–5
Paraffin plombage of the chest revisited. Vigneswaran WT, et al. **Ann Thorac Surg** 1996 Dec;62(6):1837–9
Proximal migration of vena cava filters: report of two cases with operative retrieval [letter; comment] Friedell ML.
Ann Vasc Surg 1997 Jan;11(1):106. Comment on: Ann Vasc Surg 1995 Nov;9(6):571–5.
Contraceptive implants. High resolution ultrasonography facilitates removal [letter; comment] Cozens NJ. **BMJ** 1996 Oct 5;313(7061):880. Comment on: BMJ 1996 Jun 22;312(7046):1555–6.
Migration of a Filshie clip into the urinary bladder seven years after laparoscopic sterilisation. Kesby GJ, et al.
Br J Obstet Gynaecol 1997 Mar;104(3):379–82
An unexpected complication of urinary stomata. Fumi L.
Br J Urol 1997 May;79(5):813
Vesical calculus around an intra-uterine contraceptive device. Maskey CP, et al. **Br J Urol** 1997 Apr;79(4):654–5
Migration of Gianturco expandable metallic stents in the upper trachea. Kitanosono T, et al.
Cardiovasc Intervent Radiol 1997 May–Jun;20(3):216–8
A migrating biliary wallstent [letter; comment] Plant G.
Clin Radiol 1997 Apr;52(4):322. Comment on: Clin Radiol 1997 Mar;52(3):246.
Extrusion of Teflon aortic pledgets from a sternal wound six years after cardiac surgery. Conn KS, et al.
Eur J Cardiothorac Surg 1997 Jul;12(1):150–1; discussion 152–3
A migrating scleral explant presenting as a chalazion [letter] Chua CN, et al. **Eye** 1995;9 (Pt 6):803–4
Portal vein graft rectal evacuation after Whipple procedure. the Fabrizio's disease. Aldrighetti L, et al.
Hepatogastroenterology 1996 Nov–Dec;43(12):1638–9
Endoscopic biliary stent migration with small bowel perforation in a liver transplant recipient. Esterl RM Jr, et al. **J Clin Gastroenterol** 1997 Mar;24(2):106–10
Transgastric migration of a surgical sponge. Menteş BB, et al. **J Clin Gastroenterol** 1997 Jan;24(1):55–7
Retained surgical sponge: an unusual cause of intestinal obstruction. Wig JD, et al. **J Clin Gastroenterol** 1997 Jan; 24(1):57–8
An unusual complication of T-tubes. Green KM, et al.
J Laryngol Otol 1997 Mar;111(3):282–3
An unusual urological complication due to vascular surgery: transvesical polytetrafluoroethylene iliofemoral graft. Hubert J, et al. **J Urol** 1996 Dec;156(6):2004–5
Wear particles in bilateral internal iliac lymph nodes after loosening of a painless unilateral cemented total hip arthroplasty. Lidor C, et al. **J Urol** 1996 Nov;156(5):1775–6
Erosion of malleable penile prosthesis into bladder. Swana HS, et al. **J Urol** 1997 Jun;157(6):2259–60
Fracture and migration of an Antheor vena cava filter [letter] Ferreiro C, et al. **J Vasc Interv Radiol** 1996 Jan–Feb; 7(1):149–50
Erosion of internal cardioverter defibrillator pocket and migration of pulse generator into the peritoneal cavity. Chitkara VK, et al. **Pacing Clin Electrophysiol** 1996 Oct; 19(10):1528–9
The vanishing defibrillator syndrome: incidence, mechanism, and clinical relevance. Leonelli FM, et al.
Pacing Clin Electrophysiol 1997 Apr;20(4 Pt 1):960–5
The shocking lung mass: a case report. Mahajan S, et al.
Pacing Clin Electrophysiol 1996 Sep;19(9):1398–9
Hepatic foreign body in a child. Crankson SJ.
Pediatr Surg Int 1997 Jul;12(5–6):426–7
Intraductal migration of silicone [letter; comment] Holten I. **Plast Reconstr Surg** 1996 Oct;98(5):903. Comment on: Plast Reconstr Surg 1995 Dec;96(7):1746–7.
[Foreign bodies after total hip prosthesis] Cordonnier C, et al. **Ann Pathol** 1997 Apr;17(2):100–8 (65 ref.) **(Fre)**
[Migration of an aneurysm clip in the ventricular system] Sievert T, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 May;166(5):451–3 **(Ger)**
[Intravesical migration of an artificial urinary sphincter AMS-800: a rare complication] Asensio Egea L, et al.
Actas Urol Esp 1996 Nov-Dec;20(10):915–8 (11 ref.) (Eng. Abstr.) **(Spa)**
[Peritoneal migration of defibrillator implanted behind the rectus abdominis] Gil Jaurena JM, et al.
Rev Esp Cardiol 1996 Jul;49(7):532–4 (Eng. Abstr.) **(Spa)**
[A case report. A pin in the appendix caused hepatic abscess] Acosta S, et al. **Lakartidningen** 1996 Nov 20;93(47):4278 **(Swe)**

BLOOD

Titanemia from total knee arthroplasty. A case resulting from a failed patellar component. von Schroeder HP, et al.
J Arthroplasty 1996 Aug;11(5):620–5

COMPLICATIONS

Bullet embolus from the heart to the right subclavian artery after gunshot wound to the right chest. Bilsker MS, et al.
Am Heart J 1996 Nov;132(5):1093–4
A late complication of palliative stenting of malignant oesophageal obstruction [letter] Begbie S, et al.
Aust N Z J Med 1996 Feb;26(1):115
Necrotizing fasciitis: fatal complication of migrated biliary stent. Marsman JW, et al. **Australas Radiol** 1996 Feb; 40(1):80–3
Silicone punctal plug migration resulting in dacryocystitis and canaliculitis. Rumelt S, et al. **Cornea** 1997 May; 16(3):377–9
Sigmoid diverticular perforation relating to the migration of a polyethylene endoprosthesis. Baty V, et al. **Endoscopy** 1996 Nov;28(9):781
A severe complication of the new self-expanding spiral nitinol biliary stent. Pescatore P, et al. **Endoscopy** 1997 Jun; 29(5):413–5
Sigmoid perforation: a rare complication of a migrated biliary endoprosthesis. Schaafsma RJ, et al. **Endoscopy** 1996 Jun; 28(5):469–70
Lower intestinal hemorrhage due to a dislodged metallic stent. Wong SY, et al. **Endoscopy** 1997 Jun;29(5):407–8
Sciatic neuropathy secondary to intrapelvic migration of an acetabular cup. A case report. Isiklar ZU, et al.
J Bone Joint Surg Am 1997 Sep;79(9):1395–7
Cardiac arrhythmia caused by a Kirschner wire inside the heart. An unusual complication of finger osteosynthesis. Haapaniemi TA, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):402–4
Bullet embolus to the right pulmonary artery after abdominal gunshot wound with "piggyback bullet". Panichabhongse V, et al. **J Med Assoc Thai** 1996 Oct;79(10):676–9
Pulmonary artery band migration producing endobronchial obstruction. Parry RL, et al. **J Pediatr Surg** 1997 Jan; 32(1):48–9
Bird's nest filter: inferior strut migration during massive thromboembolization. White KE, et al.
J Vasc Interv Radiol 1996 Jul–Aug;7(4):537–40
Migration of a metal connecting piece of a repaired Hickman catheter associated with infection [letter; comment] Maden K, et al. **JPEN J Parenter Enteral Nutr** 1996 Jul–Aug; 20(4):311. Comment on: JPEN J Parenter Enteral Nutr 1993 May–Jun;17(3):287–8.
Retinal detachment in patients with retained lens fragments or dislocated posterior chamber intraocular lenses. Smiddy WE, et al. **Ophthalmic Surg Lasers** 1996 Oct;27(10):856–61
Late endocardial pacing lead body migration compromising Fontan physiology. O'Connor BK, et al.
Pacing Clin Electrophysiol 1996 Dec;19(12 Pt 1):2147–9
Erosion and migration of a Watzke sleeve into the anterior chamber. Ahn CS, et al. **Retina** 1997;17(1):71–3
Perforation of the gastro-intestinal tract by a foreign body. A case report [see comments] John KD, et al.
S Afr J Surg 1996 May;34(2):78–80. Comment in: S Afr J Surg 1997 Feb;35(1):43.
Perforation of the gastro-intestinal tract by a foreign body [letter; comment] Lodder JV. **S Afr J Surg** 1997 Feb; 35(1):43. Comment on: S Afr J Surg 1996 May;34(2):78–80.

Urologic complications from a gunshot wound and the rare course of a bullet in the human body. Kollias GN, et al. **Scand J Urol Nephrol** 1997 Aug;31(4):397–9

Choledochal 'clipoliths' after cholecystectomy. Brogdon BG, et al. **South Med J** 1996 Nov;89(11):1111–3

Small-bowel obstruction and perforation. A rare complication of an esophageal stent. Henne TH, et al. **Surg Endosc** 1997 Apr;11(4):383–4

[A rare cause of ileus and its laparoscopic treatment] Kala Z, et al. **Rozhl Chir** 1997 May;76(5):246–9 (Eng. Abstr.) **(Cze)**

[A puzzling case. Migration of a foreign body from one breast to the other (letter)] Granier JP, et al. **J Chir (Paris)** 1996 Sep;133(6):287–9 **(Fre)**

[Retropharyngeal abscess for foreign body complicated by mediastinitis and pericarditis] Grijalba Uche M, et al. **An Otorrinolaringol Ibero Am** 1996;23(6):577–87 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Generations of Guglielmi detachable coils [letter; comment] Guglielmi G. **AJNR Am J Neuroradiol** 1997 Jun–Jul; 18(6):1195. Comment on: AJNR Am J Neuroradiol 1996 Aug;17(7):1343–8.

Acetabular cup migration: prediction of aseptic loosening [letter; comment] Freeman MA. **J Bone Joint Surg Br** 1997 Mar;79(2):342–3. Comment on: J Bone Joint Surg Br 1995 Nov;77(6):853–61.

Penetrating oral foreign body presenting as an aural polyp. Law S, et al. **J Laryngol Otol** 1997 Aug;111(8):749–51

Migration of press-fit cups fixed with poly-L-lactic acid or titanium screws: a randomized study using radiostereometry. Thanner J, et al. **J Orthop Res** 1996 Nov; 14(6):895–900

Toothpick foreign body perforation and migration mimicking Crohn's disease in a child. O'Gorman MA, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):628–30

[Loss of a stent in the left main coronary artery and secondary migration into the left circumflex artery needing surgical extraction. Apropos of a case] Bedossa M, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1677–80 (10 ref.) (Eng. Abstr.) **(Fre)**

[Detection of an asymptomatic sigmoid carcinoma after extramural foreign body perforation (letter)] Wunsch M, et al. **Chirurg** 1996 Jul;67(7):766 **(Ger)**

[Intrapalpebral migration of a form stable contact lens: a rare complication in contact lens practice] Heine S, et al. **Klin Monatsbl Augenheilkd** 1997 Jul;211(1):70–1 (Eng. Abstr.) **(Ger)**

[A case of retained surgical sponge penetrated into the sigmoid colon] Manabe T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):279–80 (Eng. Abstr.) **(Jpn)**

[Migration of an aspired piece of plastics. ECMO in respiratory failure optimizes bronchoscopy] Lindén V, et al. **Lakartidningen** 1997 May 7;94(19):1820–2 **(Swe)**

EPIDEMIOLOGY

Does cervical spinal cord injury induce a higher incidence of complications after prophylactic Greenfield inferior vena cava filter usage? [see comments] Kinney TB, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):907–15. Comment in: J Vasc Interv Radiol 1997 Jul–Aug;8(4):719–20.

ETIOLOGY

Missile emboli to the pulmonary artery [letter] Gupta AK, et al. **Am J Emerg Med** 1997 Mar;15(2):213–4 (12 ref.)

Deviated hydroxyapatite orbital implant syndrome. Holck DE, et al. **Am J Ophthalmol** 1997 Jul;124(1):123–5

Intravascular migration of epidural catheter during cesarean section [letter] Lee BB, et al. **Anesth Analg** 1996 Dec; 83(6):1350

Long-term complications of extraperiosteal plombage. Massard G, et al. **Ann Thorac Surg** 1997 Jul;64(1):220–4; discussion 224–5

Hydrogel exoplant fragmentation 10 years after scleral buckling surgery [letter] Hwang KI, et al. **Arch Ophthalmol** 1997 Sep;115(9):1205–6

Spontaneous disengagement of the Optimed implant [letter] Kim DD, et al. **Arch Ophthalmol** 1996 Nov;114(11):1420–1

Retained gallstones: a pain in the back. Draganic BD, et al. **Aust N Z J Surg** 1997 Sep;67(9):662–4

An unusual case of cystolithiasis: a urological lesson for gynaecologists. Cumming GP, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):117–8

Migration of the AVE Micro coronary stent. Wong P, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):267–73

Retained vaginal gauze with unusual complication: a case report. Wu CC, et al. **Chang Keng I Hsueh** 1997 Mar; 20(1):62–5

Cerebrospinal fluid hydrothorax caused by transdiaphragmatic migration of a ventriculoperitoneal catheter through the foramen of Bochdalek. Martin LM, et al. **Childs Nerv Syst** 1997 May;13(5):282–4

Case report: demonstration of a potentially fatal complication of pacing. Fox BM, et al. **Clin Radiol** 1997 Sep;52(9):723–4

Emphysematous cholecystitis after endoscopic wallstent placement complicated by distal migration of the stent. Takasaki M, et al. **Endoscopy** 1995 Nov;27(9):704–6 (10 ref.)

Duodenal Endoclip migration after laparoscopic cholecystectomy: report of a case. Yu SC, et al. **Endoscopy** 1997 May;29(4):339

Repeated macroscopic haematuria caused by intravesical migration of a preperitoneal prosthesis. Savioz D, et al. **Eur J Surg** 1997 Aug;163(8):631–2

Pleurobiliary fistula following Tannenbaum biliary stent insertion. Richenberg JI, et al. **Eur Radiol** 1996;6(5):697–9

"Gallstone hip" and other sequelae of retained gallstones. Chin PT, et al. **HPB Surg** 1997;10(3):165–8

Fatigue failure of cancellous bone: a possible cause of implant migration and loosening. Taylor M, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):181–2 (18 ref.)

Complete displacement of the femoral stem during dislocation of a THR. Volpin G, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):616–7

Postoperative decentration of three-piece silicone intraocular lenses. Kimura W, et al. **J Cataract Refract Surg** 1996;22 Suppl 2:1277–80

Chromatic visual phenomenon caused by a subluxed intraocular lens. Miedziak A, et al. **J Cataract Refract Surg** 1996 Jun;22(5):637–8

Decentration of 5.1 mm intraocular lenses after continuous curvilinear capsulorhexis and in-the-bag fixation. Patel CK, et al. **J Cataract Refract Surg** 1997 Mar;23(2):289–93

The torque and tilt gamble. Teichmann KD, et al. **J Cataract Refract Surg** 1997 Apr;23(3):413–8

Bird's nest inferior vena caval filter migration into the duodenum: a rare cause of upper gastrointestinal bleeding. al Zahrani HA. **J Endovasc Surg** 1995 Nov;2(4):372–5

Mesh migration following laparoscopic inguinal hernia repair. Hume RH, et al. **J Laparoendosc Surg** 1996 Oct; 6(5):333–5

Migration of implantable cardioverter-defibrillator patch into the right atrium. Mulero E, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):951–2

Distal retraction and inversion of the Simon nitinol filter during surgical venous procedures: report of two cases. Cooper SG, et al. **J Vasc Interv Radiol** 1997 May–Jun; 8(3):433–5

Late migration of an orbital implant causing orbital hemorrhage with sudden proptosis and diplopia. Rosen CE. **Ophthal Plast Reconstr Surg** 1996 Dec;12(4):260–2; discussion 263

Decentration and tilt of polymethyl methacrylate, silicone, and acrylic soft intraocular lenses. Hayashi K, et al. **Ophthalmology** 1997 May;104(5):793–8

Migration of hydroxyapatite onlays into the mandible and nasal bone and local bone turnover in growing rabbits. Yanagisawa A, et al. **Plast Reconstr Surg** 1997 Jun; 99(7):1972–82

Fracture embolization of a Duromedics mitral prosthesis. Baumgartner FJ, et al. **Tex Heart Inst J** 1997;24(2):122–4

[Intrabronchial migration and extraction of a fragment of an Accufix J-shaped atrial pacing catheter] Lefez C, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):291–3 (Eng. Abstr.) **(Fre)**

[Complications of double J ureteral stents] el Khader K. **J Urol (Paris)** 1996;102(4):173–5 (25 ref.) (Eng. Abstr.) **(Fre)**

[Spontaneous elimination by the natural tracts of screws of anterior cervical osteosynthesis. Apropos of a case] Chataigner H, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):78–82 (Eng. Abstr.) **(Fre)**

[Displacement of a Schuknecht prosthesis in cranial MRI] Hüttenbrink KB. **HNO** 1997 May;45(5):401 **(Ger)**

[The penetration of a bile duct metal stent into the duodenal bulb as a late complication of combined stent/radiotherapy in Klatskin's tumor] Wingen M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):75–7 (10 ref.) **(Ger)**

[The proximal migration of a double-J catheter. A review of the predisposing factors. Apropos a case] Vallejo Herrádor J, et al. **Actas Urol Esp** 1997 Apr;21(4):430–3 (30 ref.) (Eng. Abstr.) **(Spa)**

PATHOLOGY

Migration of metal and polyethylene particles from articular prostheses may generate lymphadenopathy with histiocytosis. Baslé MF, et al. **J Biomed Mater Res** 1996 Feb;30(2):157–63

Identification and distribution of synthetic ligament wear particles in sheep. Margevicius KJ, et al. **J Biomed Mater Res** 1996 Jul;31(3):319–28

Transmural migration of a retained surgical sponge into the intestinal lumen: an experimental study. Wattanasirichaigoon S. **J Med Assoc Thai** 1996 Jul; 79(7):415–22

'Pilonidal appendicitis' or 'the hair of the dog': an unusual case of foreign body perforation of the appendix. Miller GG, et al. **J Pediatr Surg** 1996 May;31(5):703

[Systemic granulomatous reaction in hip prosthesis. Apropos of 2 anatomoclinical cases] Peoc'h M, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):564–7 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Rigid lens dynamics: lid effects. Carney LG, et al. **CLAO J** 1997 Jan;23(1):69–77

PREVENTION & CONTROL

Migration and shortening of a self-expanding metallic stent [letter; comment] Hartnell GG. **Clin Radiol** 1997 Mar; 52(3):248. Comment on: Clin Radiol 1996 Aug;51(8):593–5.

A migrating biliary wallstent: an unusual complication [letter; comment] [see comments] Loveday EJ. **Clin Radiol** 1997 Mar;52(3):246. Comment on: Clin Radiol 1996 Jul;51(7):519–20. Comment in: Clin Radiol 1997 Apr;52(4):322.

Self locking tension band technique in transverse patellar fractures. Us AK, et al. **Int Orthop** 1996;20(6):357–8

The ability of various acetabular components to resist protrusio migration. Benjamin J, et al. **Orthopedics** 1997 Apr;20(4):307–10

Secure placement of peritoneal dialysis catheters using a laparoscopic technique. Watson DI, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):35–7

RADIOGRAPHY

Bullet embolism to the heart. Grewal KS, et al. **Am Heart J** 1997 Apr;133(4):468–70

Evaluation of thoracic epidural catheter position and migration using radio-opaque catheters. Hendriks GW, et al. **Anaesthesia** 1997 May;52(5):457–9

Migration and lymphatic spread of calcified paraffinomas after breast augmentation. Ooi GC, et al. **Australas Radiol** 1996 Nov;40(4):404–7

Penetration of a vertebral body by a limb of the Greenfield filter. Wambeek ND, et al. **Australas Radiol** 1996 Aug; 40(3):364–6

Catheter migration of a Port-a-cath system. Bruninx G, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec;19(6):435–7

Greenfield filter caval perforation causing an aortic mural thrombus and femoral artery occlusion. Chintalapudi UB, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):53–5

Peritoneo-vulvar catheter extrusion after shunt operation. Nagulic M, et al. **Childs Nerv Syst** 1996 Apr;12(4):222–3

Migration and shortening of a self-expanding metallic stent [letter] Livsey R. **Clin Radiol** 1997 Feb;52(2):162

Use of computed tomography guidance and mammographic hook wires to remove displaced, embedded contraceptive rods. Weiner HM, et al. **J Am Osteopath Assoc** 1996 Jul; 96(7):422–3

Migration of porous press-fit cups in hip revision arthroplasty. A radiostereometric 2-year follow-up study of 60 hips. Nivbrant B, et al. **J Arthroplasty** 1996 Jun; 11(4):390–6

Subhepatic migration of a hip prosthesis. Muñoz Vives JM, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):152–3

Acetabular osteolysis and migration in bipolar arthroplasty of the hip: five- to 13-year follow-up study. Nakata K, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):258–64

Foreign body in the throat migrating through the common carotid artery. Osinubi OA, et al. **J Laryngol Otol** 1996 Aug;110(8):793–5

Migration of central venous catheters: implications for initial catheter tip positioning. Kowalski CM, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):443–7

Changes in tunneled catheter tip position when a patient is upright. Nazarian GK, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):437–41

Snare retrieval of migrated ventriculoatrial shunt. James CA, et al. **Pediatr Radiol** 1997 Apr;27(4):330–2

Radio-opaque punctate opacities on the chest radiograph following intravenous injection of a bismuth compound. Addrizzo-Harris DJ, et al. **Thorax** 1997 Mar;52(3):303–4

Spontaneous gun pellet migration in the brain. Demuren OA, et al. **West Afr J Med** 1997 May–Jun;16(2):117–20

[Radiological study of the migration of prosthetic implants following hip arthroplasty] Lemaire R, et al. **Acta Orthop Belg** 1996;62 Suppl 1:124–31 (Eng. Abstr.) **(Fre)**

[Complications of percutaneous endoscopic gastrostomy (PEG)] Drochner U, et al. **Leber Magen Darm** 1996 Sep; 26(5):263–6 (Eng. Abstr.) **(Ger)**

[Single-image roentgen analysis for the measurement of hip endoprosthesis migration] Krismer M, et al. **Orthopade** 1997 Mar;26(3):229–36 (38 ref.) (Eng. Abstr.) **(Ger)**

[The rupture and intravascular migration of the distal fragment of a central venous access catheter (letter)] Maroto P, et al. **Rev Clin Esp** 1997 Jan;197(1):68–9 (10 ref.) **(Spa)**

SURGERY

Bullet embolism to the heart. Grewal KS, et al. **Am Heart J** 1997 Apr;133(4):468–70

Surgical management of posteriorly dislocated silicone plate haptic intraocular lenses. Schneiderman TE, et al. **Am J Ophthalmol** 1997 May;123(5):629–35

A simple snare for transscleral fixation of dislocated intraocular lenses. Poon A, et al. **Aust N Z J Ophthalmol** 1996 Nov;24(4):385–8

Shotgun pellet embolus of the middle cerebral artery treated by emergency embolectomy. Haninec P, et al. **Br J Neurosurg** 1996 Jun;10(3):311–4

Laparoscopic retrieval of a needle migrated from the alimentary tract. Shah HK, et al. **Endoscopy** 1996 Nov; 28(9):787–8

Endoscopic removal of a "floating" biliary Gianturco Z stent five years after placement for a benign anastomotic stricture in a liver transplant patient. Baron TH, et al. **Gastrointest Endosc** 1997 Jul;46(1):80–2

Retained fragment of a lumbar subarachnoid drain.

Simmerman SR, et al. **J Neurosurg Anesthesiol** 1997 Apr; 9(2):159–61

Interventional techniques to shorten and lengthen central venous catheters to preserve function. Lebowitz EA, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):441–4

Intraventricular migration of VP shunt. Ammar A, et al. **Neurosurg Rev** 1995;18(4):293–5

Transcranial migration of microfixation plates and screws. Case report. Duke BJ, et al. **Pediatr Neurosurg** 1996 Jul; 25(1):31–4; discussion 35

Optimal time to restart conventional CAPD after laparoscopic revision of CAPD catheters [letter] Lin YP, et al. **Perit Dial Int** 1996 Sep–Oct;16(5):538–9

Use of perflubron as a new temporary vitreous substitute and manipulation agent for vitreoretinal surgery. Wills Eye Hospital Perflubron Study Group. Banker AS, et al. **Retina** 1996;16(4):285–91

Venous bullet embolism: controversies in management. Headrick JR Jr, et al. **Tenn Med** 1997 Mar;90(3):103–5

[Distal perforation of the small intestine by PEG endpiece in an inguinal hernia patient] Fusetti C, et al. **Chirurg** 1997 Mar;68(3):274–6 (Eng. Abstr.) **(Ger)**

[Fracture of a surgical needle in suture management of episiotomy] Bettelheim D, et al. **Gynakol Geburtshilfliche Rundsch** 1996;36(3):159–62 (Eng. Abstr.) **(Ger)**

[A case of cerebral arteriovenous malformation with accidental migration of a microcatheter during endovascular procedure] Mizoue T, et al. **No Shinkei Geka** 1997 May;25(5):443–6 (Eng. Abstr.) **(Jpn)**

[Surgical management of intraocular lens dislocation into the vitreous cavity] Omulecki W, et al. **Klin Oczna** 1996; 98(6):433–6 (Eng. Abstr.) **(Pol)**

[A rare combination of stomach cancer and a foreign body of the abdominal cavity] Munasypov FR, et al. **Klin Khir** 1995;(1):48 **(Rus)**

THERAPY

Retrievable versus nonretrievable coils [letter][see comments] Debrun G. **AJNR Am J Neuroradiol** 1997 Aug; 18(7):1389–90. Comment in: AJNR Am J Neuroradiol 1997 Aug;18(7):1390.

Retrievable versus nonretrievable coils [letter; comment] Higashida RT. **AJNR Am J Neuroradiol** 1997 Aug; 18(7):1390. Comment on: AJNR Am J Neuroradiol 1997 Aug;18(7):1389–90.

Endovascular extraction of malpositioned fibered platinum microcoils from the aneurysm sac during endovascular therapy. Zoarski GH, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):691–5

A simplified method for repositioning distally migrated ureteral stents. Coley BD, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):567–8

Early migration of a covered self–expanding metal stent corrected by implantation of a second stent. Conio M, et al. **Am J Gastroenterol** 1996 Oct;91(10):2212–4

Retained gallstones: a pain in the back. Draganic BD, et al. **Aust N Z J Surg** 1997 Sep;67(9):662–4

Catheter migration of a Port–a–cath system. Bruninx G, et al. **Cardiovasc Intervent Radiol** 1996 Nov–Dec;19(6):435–7

Intracoronary loss of balloon–mounted stents: successful retrieval with a 2 mm–"Microsnare"–device. Elsner M, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):271–6

Transcatheter retrieval of an embolized Palmaz stent from the right ventricle of a child. Hoyer MH, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):277–80

Repositioning a migrated esophageal stent using a retroflexed endoscope: a note of caution [letter; comment] Berkelhammer C, et al. **Gastrointest Endosc** 1996 Nov; 44(5):632–4. Comment on: Gastrointest Endosc 1995 Sep;42(3):278–9.

Percutaneous intravesical retrieval of a misplaced urethral stent: new laparoscopic instrumentation. Bukowski TP, et al. **J Urol** 1997 Jun;157(6):2257

Combined percutaneous and endoscopic removal of a proximally migrated pancreatic stent. Dean JW, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):935–8

Percutaneous removal of a fully expanded Wallstent from the right ventricle with transesophageal echocardiography guidance. Hartnell GG, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):371–4

Percutaneous deflation of a vertebral artery occlusion balloon that migrated to the axillary artery. Kallmes DF, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):809–12

Percutaneous retrieval of intracardiopulmonary artery metallic needle (Kirschner's wire): a case report. Aikawa H, et al. **Radiat Med** 1996 Nov–Dec;14(6):335–8

[Percutaneous removal of displaced metal stents in TIPS] Textor HJ, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):288–92 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Intrauterine device––primary and secondary perforation of the urinary bladder. Bjørnerem A, et al. **Acta Obstet Gynecol Scand** 1997 Apr;76(4):383–5

Intravascular ultrasound identification of stent entrapment in vivo with in vitro confirmation. Hiro T, et al. **Cathet Cardiovasc Diagn** 1997 Jan;40(1):40–5

Unexpected complication of intra–aortic balloon counterpulsation via the ascending aorta: balloon migration. Santini F, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):579–81

Penetration of the bladder by a perforating intrauterine contraceptive device: a sonographic diagnosis. Caspi B, et al. **Ultrasound Obstet Gynecol** 1996 Jun;7(6):458–60

[Intrabronchial inhaled seed migration. Value of ultrasonography in the diagnosis of pleural–cutaneous fistula] Giudicelli J, et al. **Rev Mal Respir** 1996;13(4):428–9 (Eng. Abstr.) **(Fre)**

FOREIGN-BODY REACTION

Radiologic case study. Silicone synovitis. Tadikonda L, et al. **Orthopedics** 1997 Mar;20(3):277–80, 288

Biological reaction to debris in relation to joint prostheses. Revell PA, et al. **Proc Inst Mech Eng [H]** 1997; 211(2):187–97 (90 ref.)

[Foreign bodies after total hip prosthesis] Cordonnier C, et al. **Ann Pathol** 1997 Apr;17(2):100–8 (65 ref.) **(Fre)**

CHEMICALLY INDUCED

Long–term evaluation of degradation and foreign–body reaction of subcutaneously implanted poly(DL–lactide–epsilon–caprolactone). den Dunnen WF, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):337–46

The inflammatory potential of surgical glove lubricants: Biosorb, Keoflo, calcium carbonate and Hydrocote after intravitreal injection. Park HS, et al. **Korean J Ophthalmol** 1997 Jun;11(1):51–9

COMPLICATIONS

Angiosarcoma occurring with chronic osteomyelitis and residual foreign material: case report of a late World War II wound complication. Schneider T, et al. **Aust N Z J Surg** 1997 Aug;67(8):576–8

Disintegration of cervical intervertebral BOP grafts with neurological sequelae: a report of two cases. Dorward NL, et al. **Br J Neurosurg** 1997 Feb;11(1):65–8

Foreign body gingivitis: clinical and microscopic features of 61 cases. Gordon SC, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):562–70

Bronchiectasis resulting from aspirated grass inflorescences. Başok O, et al. **Scand Cardiovasc J** 1997;31(3):157–9 (8 ref.)

DIAGNOSIS

Metallosis mimicking infection in a cemented total knee replacement. Huo MH, et al. **Orthopedics** 1997 May; 20(5):466–70 (18 ref.)

Perigraft inflammation due to Dacron–covered stent–grafts in sheep iliac arteries: correlation of MR imaging and histopathologic findings. Schürmann K, et al. **Radiology** 1997 Sep;204(3):757–63

DRUG THERAPY

Nafamostat mesilate reduces blood–foreign surface reactions similar to biocompatible materials. Usui A, et al. **Ann Thorac Surg** 1996 Nov;62(5):1404–11

ETIOLOGY

Aseptic foreign body reaction to Dacron graft material used for coracoclavicular ligament reconstruction after type III acromioclavicular dislocation. Colosimo AJ, et al. **Am J Sports Med** 1996 Jul–Aug;24(4):561–3

The morphological effects of synthetic augmentation in posterior cruciate ligament reconstruction: an experimental study in a sheep model. Bosch U, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):176–81

Characterization of cellular response to silicone implants in rats: implications for foreign–body carcinogenesis. James SJ, et al. **Biomaterials** 1997 May;18(9):667–75

Tissue response to commercial silicone and polyurethane elastomers after different sterilization procedures. Zhang YZ, et al. **Biomaterials** 1996 Dec;17(23):2265–72

Experimental study of thrombogenicity and foreign body reaction induced by heparin–coated coronary stents. De Scheerder I, et al. **Circulation** 1997 Mar 18;95(6):1549–53

Characterization of debris adjacent to failed knee implants of 3 different designs. Hirakawa K, et al. **Clin Orthop** 1996 Oct;(331):151–8

Urothelial hyperplasia complicating use of metal stents in malignant ureteral obstruction. Hekimoğlu B, et al. **Eur Radiol** 1996;6(5):675–81

Retained portion of latex glove during femoral nailing. Case report. Sadat–Ali M, et al. **Indian J Med Sci** 1996 Nov; 50(11):308–9

Large amounts of polyethylene debris in the interface tissue surrounding bipolar endoprostheses. Comparison to total hip prostheses. Kim KJ, et al. **J Arthroplasty** 1997 Jan; 12(1):32–9

Viscose cellulose sponge as an implantable matrix: changes in the structure increase the production of granulation tissue. Pajulo O, et al. **J Biomed Mater Res** 1996 Nov; 32(3):439–46

In vivo testing of crosslinked polyethers. I. Tissue reactions and biodegradation. Pol BJ, et al. **J Biomed Mater Res** 1996 Nov;32(3):307–20

Postoperative inflammatory reactions to sealed Dracon prostheses: a comparison of Gelseal and Hemashield. Utoh J, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):287–90

Tissue response to titanium plates: a transmitted electron microscopic study. Kim YK, et al. **J Oral Maxillofac Surg** 1997 Apr;55(4):322–6

Foreign body gingivitis: identification of the foreign material by energy–dispersive x–ray microanalysis. Gordon SC, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):571–6

Tissue reaction around miniplates used for the fixation of vascularized iliac crest bone grafts. Schön R, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):433–40

Non–infectious interstitial alveolitis and foreign body pulmonary vasculitis in a child treated for acute lymphoblastic leukemia. Loriette Y, et al. **Pediatr Pulmonol** 1997 May;23(5):382–5

Multiple lymphadenopathy induced by wear debris after total knee replacement. Bae SC, et al. **Scand J Rheumatol** 1996; 25(6):388–90

IMMUNOLOGY

Phenotype of lymphocytes associated with the inflammatory reaction to silicone gel breast implants. Katzin WE, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):156–61

A comfortable foreign body [editorial] Kwok S. **J Am Optom Assoc** 1996 Mar;67(3):128–9

METABOLISM

Nitric oxide synthase is expressed in human macrophages during foreign body inflammation. Moilanen E, et al. **Am J Pathol** 1997 Mar;150(3):881–7

PATHOLOGY

Foreign body contamination during stent implantation. Whelan DM, et al. **Cathet Cardiovasc Diagn** 1997 Mar; 40(3):328–32

Phenotype of lymphocytes associated with the inflammatory reaction to silicone gel breast implants. Katzin WE, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):156–61

Histologic evaluation during healing of hydrogel core–and–skirt keratoprostheses in the rabbit eye. Vijayasekaran S, et al. **Cornea** 1997 May;16(3):352–9

Foreign body reactions to monofilament and braided polypropylene mesh used as preperitoneal implants in pigs. Beets GL, et al. **Eur J Surg** 1996 Oct;162(10):823–5

Reaction of the periosteum to subperiosteal implantation of a foreign body. Baltadjiev G. **Folia Med (Plovdiv)** 1996; 38(3–4):55–61

Human tissue responses to metal stents implanted in vivo for the palliation of malignant stenoses. Bethge N, et al. **Gastrointest Endosc** 1996 Jun;43(6):596–602

Marsupialization of percutaneous implants in presence of deep connective tissue. Heaney TG, et al. **J Biomed Mater Res** 1996 Dec;32(4):593–601

In vivo biocompatibility and biostability of modified polyurethanes. Mathur AB, et al. **J Biomed Mater Res** 1997 Aug;36(2):246–57

Isolation and quantitation of debris particles around failed silicone orthopedic implants. Hirakawa K, et al. **J Hand Surg [Am]** 1996 Sep;21(5):819–27

In vivo inflammatory response to silicone elastomer particulate debris. Naidu SH, et al. **J Hand Surg [Am]** 1996 May;21(3):496–500

Ultrastructural study of degradation of calcium phosphate ceramic by human monocytes and modulation of this activity by HILDA/LIF cytokine. Benahmed MD, et al. **J Histochem Cytochem** 1996 Oct;44(10):1131–40

Long–term observation of subcutaneous tissue reaction to synthetic auditory ossicle (Apaceram) in rats. Li DJ, et al. **J Laryngol Otol** 1997 Aug;111(8):702–6

Comparison of arterial wall reaction after passage of the Hydrolyser device versus a thrombectomy balloon in an animal model. van Ommen VG, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):451–4

Bilateral mandibular radiopacities with mucosal masses [clinical conference] Will MJ, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):607–9

Molecular identification of foreign inclusions in inflammatory tissue surrounding metal implants by Fourier transform laser microprobe mass spectrometry. De Nollin S, et al. **Pathol Res Pract** 1997;193(4):313–8

Spectrum of histological changes reactive to prosthetic breast implants: a clinopathological study of 84 patients. Yeoh G, et al. **Pathology** 1996 Aug;28(3):232–5

Foreign body reaction to exogenous pulmonary surfactant in an infant with hydrops and cardiomyopathy. Bendon RW, et al. **Pediatr Pathol Lab Med** 1996 Jan–Feb;16(1):83–8

Pathologic and clinical aspects of repair of large incisional hernias after implant of a polytetrafluoroethylene prosthesis. Bellón JM, et al. **World J Surg** 1997 May; 21(4):402–6; discussion 406–7

[Massive foreign body reaction after intraocular penetration of hot, liquid plastic] Rohrbach JM, et al. **Klin Monatsbl Augenheilkd** 1997 Jan;210(1):65–7 (Eng. Abstr.) **(Ger)**

[Acute abdomen and cystic space–occupying lesion in mid abdomen] Mouton W, et al. **Schweiz Med Wochenschr** 1996 Dec 7;126(49):2152 **(Ger)**

[Reaction of the blood vessel wall to microporous endovascular prostheses] Marty B, et al. **Vasa** 1997;

FOREIGN-BODY REACTION

26(1):33–8 (Eng. Abstr.) **(Ger)**

[Physiologic and pathologic patterns of reaction to silicone breast implants] Friemann J, et al. **Zentralbl Chir** 1997; 122(7):551–64 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Paired comparison of vascular wall reactions to Palmaz stents, Strecker tantalum stents, and Wallstents in canine iliac and femoral arteries. Barth KH, et al. **Circulation** 1996 Jun 15;93(12):2161–9

PREVENTION & CONTROL

The effect of heparin-surface-modification on scar-tissue formation around a subconjunctival polymethylmethacrylate implant in the rabbit. Kivalo M. **Acta Ophthalmol Scand** 1997 Apr;75(2):189–93

New antiinfectious biomaterials. Ciprofloxacin containing polyurethanes as potential drug delivery systems to prevent foreign-body infections. Schierholz JM, et al. **Arzneimittelforschung** 1997 Jan;47(1):70–4

Local methylprednisolone inhibition of foreign body response to coated intracoronary stents. de Scheerder I, et al. **Coron Artery Dis** 1996 Feb;7(2):161–6

The effect of pentoxifylline on the lung during cardiopulmonary bypass. Türköz R, et al. **Eur J Cardiothorac Surg** 1996;10(5):339–46

In vivo study of cell reactions on poly(methyl methacrylate) intraocular lenses with different surface properties. Amon M, et al. **J Cataract Refract Surg** 1996;22 Suppl 1:825–9

Cellular reaction on the anterior surface of poly(methyl methacrylate) intraocular lenses. Pande MV, et al. **J Cataract Refract Surg** 1996;22 Suppl 1:811–7

Staple penetration and staple histological response for attaching an epimysial electrode onto the abdominal surface of the diaphragm using a laparoscopic approach. Schmit BD, et al. **Surg Endosc** 1997 Jan;11(1):45–53

RADIOGRAPHY

Migration and lymphatic spread of calcified paraffinomas after breast augmentation. Ooi GC, et al. **Australas Radiol** 1996 Nov;40(4):404–7

SURGERY

Muslin induced granuloma following wrapping of intracranial aneurysms: the role of infection as an additional precipitating factor. Report of two cases and review of the literature. Kirollos RW, et al. **Acta Neurochir (Wien)** 1997;139(5):411–5

Paraffinoma of the penis: one-stage repair. Muraro GB, et al. **Arch Esp Urol** 1996 Jul–Aug;49(6):648–50

[Insufficiency of a frontalis loop] Rohrbach JM, et al. **Klin Monatsbl Augenheilkd** 1997 Mar;210(3):172–3 (Eng. Abstr.) **(Ger)**

THERAPY

[Treatment with tissue plasminogen activator (tPA) in risk patients with fibrin reactions after cataract operations] Heiligenhaus A, et al. **Ophthalmologe** 1996 Feb;93(1):49–53 (Eng. Abstr.) **(Ger)**

VETERINARY

Concerns about glass foreign body reactions [letter; comment] Bull JK, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1379. Comment on: J Am Vet Med Assoc 1996 Aug 1;209(3):612–4.

What is your diagnosis? Foreign-body reaction. Kramer JM, et al. **J Am Vet Med Assoc** 1996 Sep 1;209(5):899–900

Urethral obstruction in a cat [letter] Christie MF. **Vet Rec** 1996 Aug 17;139(7):172

FOREIGN MEDICAL GRADUATES

Evaluating the potential of international medical graduates as physician assistants in primary care. Fowkes V, et al. **Acad Med** 1996 Aug;71(8):886–92

IMGs and cultural diversity training [letter] McClain TA. **Acad Med** 1996 Nov;71(11):1138–9

Israel's unique approach to licensing immigrant physicians [letter] Notzer N. **Acad Med** 1997 Aug;72(8):661

International medical graduates. Smith WL, et al. **Acad Radiol** 1997 Jul;4(7):539–41

Overseas trainees--training in the UK. A report on the First Surgical Conference for Overseas Trainees organised by the University of Liverpool and held at the Tropical School of Medicine, Liverpool in December, 1995. **Ann R Coll Surg Engl** 1997 Jan;79(1 Suppl):17–9

Refugee doctors in Britain: a wasted resource [editorial] Berlin A, et al. **BMJ** 1997 Aug 2;315(7103):264–5

Asian doctors are still being discriminated against [letter] Esmail A, et al. **BMJ** 1997 May 31;314(7094):1619

More freedom for doctors to move within EU [news] Watson R. **BMJ** 1997 Jul 26;315(7102):206

Shrinking the western Pacific: psychiatric training for medical students from Micronesia. Young DM, et al. **Hawaii Med J** 1996 Apr;55(4):70–1

Opportunities for emergency medicine training in Australia. Ryan JM, et al. **J Accid Emerg Med** 1997 Jan;14(1):36–9

More IMG involvement needed. Bagby RJ. **J Fla Med Assoc** 1996 Oct;83(8):533–4

Clinical training opportunities for Thai medical graduates in the United States. Nuchprayoon I. **J Med Assoc Thai** 1996 Oct;79(10):667–75 (10 ref.)

The Educational Commission for Foreign Medical Graduates: global efforts in graduate medical education. Miranda M. **Med Educ** 1995;29 Suppl 1:103–6

Workforce issues pressure IMGs. Ahmad B. **Mich Med** 1996 Dec;95(12):12–3

IMGs set goals for AMA section. Ward RD. **Mich Med** 1997 Jun;96(6):28–9

Graduates of foreign medical schools in the United States [letter] Bradley WG. **N Engl J Med** 1996 Nov 14; 335(20):1535–6; discussion 1536–7

Graduates of foreign medical schools in the United States [letter] Chandra M. **N Engl J Med** 1996 Nov 14; 335(20):1536; discussion 1536–7

Graduates of foreign medical schools in the United States [letter] Wollschlaeger B. **N Engl J Med** 1996 Nov 14; 335(20):1536; discussion 1536–7

Vocal minority: international medical graduates [interview by Diane K. Blair] Alvear DT. **Pa Med** 1997 Apr; 100(4):20–1

Quality medical care in South Africa [letter] Jackson JH. **S Afr Med J** 1997 Mar;87(3):331

[Foreign residency: specialist candidate in the United States] François E. **Rev Med Brux** 1996 Oct;17(5):355–8 (Eng. Abstr.) **(Fre)**

[Establish a special pool for interns with exams from non-Nordic countries (letter)] Brounéus A. **Lakartidningen** 1996 Dec 11;93(50):4611–2 **(Swe)**

HISTORY

[Russian Action (the history of Russian medicine abroad)] Mirskiĭ MB. **Probl Sotsialnoi Gig Istor Med** 1996 Sep–Oct; (5):43–6 **(Rus)**

LEGISLATION & JURISPRUDENCE

Congress and the International Medical Graduate: the need for equity. Stimmel BD. **Mt Sinai J Med** 1996 Oct–Nov; 63(5–6):359–63

[Physicians with foreign diplomas and pediatric care in Ile de France (letter)] Lejeune C. **Arch Pediatr** 1996 Dec; 3(12):1283–4 **(Fre)**

PSYCHOLOGY

Intention to relocate to the United States. Ma PC, et al. **Can Fam Physician** 1997 Sep;43:1533–9

Shades of greener grass [editorial] Webb RJ. **Can Fam Physician** 1997 Sep;43:1483–5, 1489–92 **(Eng, Fre)**

'Being a foreigner, I may be punished if I make a small mistake': assessing transcultural experiences in caring for patients. Fiscella K, et al. **Fam Pract** 1997 Apr;14(2):112–6

Improving the professional self-efficacy cognitions of immigrant doctors with Balint groups. Rabin S, et al. **Isr J Psychiatry Relat Sci** 1996;33(4):253–9

STANDARDS

Surgical training of overseas qualified doctors. Are we training the wrong doctors at the wrong time in the wrong way? Holcombe C, et al. **Ann R Coll Surg Engl** 1997 Jan; 79(1 Suppl):19–21

Storm of protest greets motion to restrict specialty exams. Square D. **Can Med Assoc J** 1997 Apr 15;156(8):1188–9

STATISTICS & NUMERICAL DATA

Graduates of foreign medical schools: progression to certification by the Educational Commission for Foreign Medical Graduates. Gary NE, et al. **Acad Med** 1997 Jan; 72(1):17–22

IMG applicants to a medical residency program [letter] Tulgan H, et al. **Acad Med** 1997 Aug;72(8):659–60

Another view on controlling physician supply [letter] Weissman S. **Acad Med** 1997 Apr;72(4):243–4

Women in US medicine: the comparative roles of graduates of US and foreign medical schools. Mick SS, et al. **J Am Med Womens Assoc** 1997 Summer;52(3):152–8

Foreign medical graduates in the United States--the end of dependence is near [news] Silva YJ. **Natl Med J India** 1996 Sep–Oct;9(5):238–9

SUPPLY & DISTRIBUTION

Workforce reform, international medical graduates, and the in-training examination [editorial] Waxman HS. **Ann Intern Med** 1997 May 15;126(10):803–5

UTILIZATION

Manitoba municipalities want foreign-trained physicians to fill medical-care gap. Square D. **Can Med Assoc J** 1997 Apr 1;156(7):1038–9

The safety-net role of international medical graduates. Mick SS, et al. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):141–50 (26 ref.)

Room for international medical graduates [letter; comment] Shuggi E. **Postgrad Med** 1996 Dec;100(6):39. Comment on: Postgrad Med 1996 May;99(5):15–7, 20–1.

FOREIGN PROFESSIONAL PERSONNEL

Health care work in developing countries. Redwood-Campbell L. **Can Fam Physician** 1997 Sep; 43:1599–602 (12 ref.)

Alleviating language problems for graduate nursing students from overseas. Burton DR. **J Nurs Educ** 1997 Sep; 36(7):330–2

EDUCATION

Admissions test predictors of performance in a foreign-trained dentist program. Simon J, et al. **J Dent Educ** 1997 May;61(5):440–3

LEGISLATION & JURISPRUDENCE

Legal nightmare for U.S. health care workers abroad: policy implications. Virgo KS, et al. **Health Care Manage Rev** 1996 Summer;21(3):34–42

FORELIMB

Dermatomes in the rat limbs as determined by antidromic stimulation of sensory C-fibers in spinal nerves. Takahashi Y, et al. **Pain** 1996 Sep;67(1):197–202

Factors affecting the ultrasonic properties of equine digital flexor tendons. Miles CA, et al. **Ultrasound Med Biol** 1996; 22(7):907–15

ABNORMALITIES

Demonstration of congenital anomalies in the joints of the forelimbs and hindlimbs caused by several pharmacological agents. Erdoğan D, et al. **Anat Histol Embryol** 1996 Dec; 25(4):263–7

The bent-leg syndrome in sheep. II. Association with genetic markers. Van Niekerk FE, et al. **J S Afr Vet Assoc** 1990 Dec;61(4):151–4

Management of antebrachial deformity and shortening secondary to a synostosis in a dog. Langley-Hobbs SJ, et al. **J Small Anim Pract** 1996 Aug;37(8):359–63

Phenytoin causes phalangeal hypoplasia in the rabbit fetus at clinically relevant free plasma concentrations. Danielsson BR, et al. **Teratology** 1995 Nov;52(5):252–9

Congenital conditions that lead to osteoarthritis in the dog. Martinez SA. **Vet Clin North Am Small Anim Pract** 1997 Jul;27(4):735–58 (54 ref.)

Multicentric schwannomas causing chronic ruminal tympany and forelimb paresis in a Holstein cow. Peek SF, et al. **Vet Rec** 1997 May 10;140(19):504–5

ANATOMY & HISTOLOGY

Quantification of skin displacement in the proximal parts of the limbs of the walking horse. van Weeren PR, et al. **Equine Vet J Suppl** 1990 Jun;(9):110–8

Use of the Wagner apparatus to lengthen the antebrachium of a growing dog. Hay CW, et al. **J Small Anim Pract** 1996 Nov;37(11):543–8

Magnetic resonance imaging of the equine metacarpophalangeal joint: three-dimensional reconstruction and anatomic analysis. Martinelli MJ, et al. **Vet Radiol Ultrasound** 1997 May–Jun;38(3):193–9

BLOOD SUPPLY

Monocyte chemotactic protein-1 increases collateral and peripheral conductance after femoral artery occlusion. Ito WD, et al. **Circ Res** 1997 Jun;80(6):829–37

An assessment of the peripheral antinociceptive potential of remoxipride, clonidine and fentanyl in sheep using the forelimb tourniquet. Main DC, et al. **J Vet Pharmacol Ther** 1997 Jun;20(3):220–8

DRUG EFFECTS

Amphetamine and task-specific practice augment recovery of vibrissae-evoked forelimb placing after unilateral sensorimotor cortical injury in the rat. Schmanke T, et al. **J Neurotrauma** 1997 Jul;14(7):459–68

EMBRYOLOGY

Recent molecular advances in understanding vertebrate limb development. Robertson KE, et al. **Br J Plast Surg** 1997 Feb;50(2):109–15 (59 ref.)

Hoxa-13 and Hoxd-13 play a crucial role in the patterning of the limb autopod. Fromental-Ramain C, et al. **Development** 1996 Oct;122(10):2997–3011

Evidence of a role for T-box genes in the evolution of limb morphogenesis and the specification of forelimb/hindlimb identity. Gibson-Brown JJ, et al. **Mech Dev** 1996 May; 56(1–2):93–101

GROWTH & DEVELOPMENT

Transgenic analysis of a potential Hoxd-11 limb regulatory element present in tetrapods and fish. Beckers J, et al. **Dev Biol** 1996 Dec 15;180(2):543–53

A novel family of T-box genes in urodele amphibian limb development and regeneration: candidate genes involved in vertebrate forelimb/hindlimb patterning. Simon HG, et al. **Development** 1997 Apr;124(7):1355–66

Peripheral nerve extract effects on mesenchymal cells. Dietz

FR, et al. **Iowa Orthop J** 1996;16:46–57
Use of the Wagner apparatus to lengthen the antebrachium of a growing dog. Hay CW, et al. **J Small Anim Pract** 1996 Nov;37(11):543–8

INJURIES

Lag screw fixation of an extensor process fracture in a foal with flexural deformity. MacLellan KN, et al.
Can Vet J 1997 Apr;38(4):226–8
[Traumatic elbow joint luxation in the dog and cat: perioperative findings] Savoldelli D, et al.
Schweiz Arch Tierheilkd 1996;138(8):387–91 (Eng. Abstr.) **(Ger)**

INNERVATION

Avoidance and classical conditioning of leg flexion in dogs. Cassady JM. **Behav Brain Res** 1996 May;77(1–2):79–99
Traumatic brain injury of the forelimb and hindlimb sensorimotor areas in the rat: physiological, histological and behavioral correlates. Soblosky JS, et al.
Behav Brain Res 1996 Sep;79(1–2):79–92
Varieties of paw and digit movement during spontaneous food handling in rats: postures, bimanual coordination, preferences, and the effect of forelimb cortex lesions. Whishaw IQ, et al. **Behav Brain Res** 1996 May; 77(1–2):135–48
Innervation of propatagial musculature in a flying squirrel, Glaucomys volans (Rodentia, Sciuridae). Chickering JG, et al. **Brain Behav Evol** 1996;47(1):1–7
Cutaneous reflex activity of the cat forelimb during fictive locomotion. Seki K, et al. **Brain Res** 1997 Apr 4; 753(1):56–62
Relation between cutaneous receptive fields and muscle afferent input to climbing fibres projecting to the cerebellar C3 zone in the cat. Jörntell H, et al. **Eur J Neurosci** 1996 Aug;8(8):1769–79
Conditioned and unconditioned forelimb reflex systems in the cat: involvement of the intermediate cerebellum. Kolb FP, et al. **Exp Brain Res** 1997 Apr;114(2):255–70
Convergence of skin reflex and corticospinal effects in segmental and propriospinal pathways to forelimb motoneurones in the cat. Sasaki M, et al.
Exp Brain Res 1996;107(3):422–34
Testing peripheral somatosensory neuroprostheses by recording from raccoon cortex. Robinson CJ, et al.
IEEE Trans Rehabil Eng 1997 Mar;5(1):75–80
Overlapping corticostriatal projections from the supplementary motor area and the primary motor cortex in the macaque monkey: an anterograde double labeling study. Inase M, et al. **J Comp Neurol** 1996 Sep 16; 373(2):283–96
Gracile, cuneate, and spinal trigeminal projections to inferior olive in rat and monkey. Molinari HH, et al.
J Comp Neurol 1996 Nov 18;375(3):467–80
Blockade of GABAergic inhibition reveals reordered cortical somatotopic maps in rats that sustained neonatal forelimb removal. Lane RD, et al. **J Neurophysiol** 1997 May; 77(5):2723–35
Effects of inactivating individual cerebellar nuclei on the performance and retention of an operantly conditioned forelimb movement. Milak MS, et al. **J Neurophysiol** 1997 Aug;78(2):939–59
Loss of lever press–related firing of rat striatal forelimb neurons after repeated sessions in a lever pressing task. Carelli RM, et al. **J Neurosci** 1997 Mar 1;17(5):1804–14
In vivo intracellular recording and labeling of neurons in the forepaw barrel subfield (FBS) of rat somatosensory cortex: possible physiological and morphological substrates for reorganization. Li CX, et al. **Neuroreport** 1996 Oct 2; 7(14):2261–72
Electrical stimulation of a forepaw digit increases the physiological representation of that digit in layer IV of SI cortex in rat. Li CX, et al. **Neuroreport** 1996 Oct 2; 7(14):2395–400
Adaptive behavioral reactions of reaching in rats following discrete somatosensorimotor cortex lesions. Saling M, et al. **Physiol Behav** 1996 Feb;59(2):255–63
The immediate effects of peripheral deafferentation on neurons of the cuneate nucleus in raccoons. Northgrave SA, et al. **Somatosens Mot Res** 1996;13(2):103–13
Long–term age–related consequences of forelimb damage upon expression of primary afferent phenotypes in the cervical dorsal horn. Rhoades RW, et al.
Somatosens Mot Res 1995;12(3–4):199–208
The effect of diagnostic regional nerve blocks in the fore limb on the locomotion of clinically sound horses. Keg PR, et al. **Vet Q** 1996;18 Suppl 2:S106–9

PATHOLOGY

Lateral collateral ligament avulsion of the humeroradial joint in a horse. Chopin JB, et al. **Vet Radiol Ultrasound** 1997 Jan–Feb;38(1):50–4
Arthroscopic findings in 100 dogs with elbow lameness. Van Ryssen B, et al. **Vet Rec** 1997 Apr 5;140(14):360–2

PHYSIOLOGY

Various strategies of forelimb movement during contact placing reactions elicited by tactile stimulation of the different aspects of a cat's paw. Czarkowska-Bauch J.
Acta Neurobiol Exp (Warsz) 1996;56(4):907–18
Use–dependent structural events in recovery of function. Schallert T, et al. **Adv Neurol** 1997;73:229–38 (32 ref.)
Climbing, brachiation, and terrestrial quadrupedalism: historical precursors of hominid bipedalism. Gebo DL.
Am J Phys Anthropol 1996 Sep;101(1):55–92 (352 ref.)
Vertical loading rates in clinically normal dogs at a trot. Budsberg SC, et al. **Am J Vet Res** 1995 Oct;56(10):1275–80
Skilled forelimb movements in prey catching and in reaching by rats (Rattus norvegicus) and opossums (Monodelphis domestica): relations to anatomical differences in motor systems. Ivanco TL, et al. **Behav Brain Res** 1996 Sep; 79(1–2):163–81
Utilization of the Denny–Brown collection: differential recovery of forelimb and hind limb stepping after extensive unilateral cerebral lesions. Vilensky JA, et al.
Behav Brain Res 1997 Jan;82(2):223–33
Does the red nucleus provide the tonic support against which fractionated movements occur? A study on forepaw movements used in skilled reaching by the rat. Whishaw IQ, et al. **Behav Brain Res** 1996 Jan;74(1–2):79–90
Unilateral lesions of the forelimb area of rat motor cortex: lack of evidence for use–dependent neural growth in the undamaged hemisphere. Forgie ML, et al. **Brain Res** 1996 Feb 26;710(1–2):249–59
The placement of a striatal ibotenic acid lesion affects skilled forelimb use and the direction of drug–induced rotation. Fricker RA, et al. **Brain Res Bull** 1996;41(6):409–16
Investigation of the vertical hoof force distribution in the equine forelimb with an instrumented horseboot. Barrey E. **Equine Vet J Suppl** 1990 Jun;(9):35–8
Shoulder and forelimb orientations and loading in sitting cats: implications for head and shoulder movement. Runciman RJ, et al. **J Biomech** 1997 Sep;30(9):911–9
Evolution of forelimb movement patterns for prey manipulation in anurans. Gray LA, et al. **J Exp Zool** 1997 Apr 15;277(6):417–24
Synaptic plasticity of the interpositorubral pathway functionally related to forelimb flexion movements. Pananceau M, et al. **J Neurophysiol** 1996 Jun;75(6):2542–61
Motor cortical muscimol injection disrupts forelimb movement in freely moving monkeys. Kubota K.
Neuroreport 1996 Oct 2;7(14):2379–84
Spatial cortical patterns of metabolic activity in monkeys performing a visually guided reaching task with one forelimb. Savaki HE, et al. **Neuroscience** 1997 Feb; 76(4):1007–34

RADIOGRAPHY

Relationship between physical signs of elbow dysplasia and radiographic score in growing Rottweilers. Read RA, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1427–30
Correlation of radiographic, necropsy and histologic findings in 8 dogs with elbow dysplasia. Keller GG, et al.
Vet Radiol Ultrasound 1997 Jul–Aug;38(4):272–6

SURGERY

Ununited anconeal process: lag–screw fixation. Fox SM, et al. **J Am Anim Hosp Assoc** 1996 Jan–Feb;32(1):52–6

ULTRASONOGRAPHY

Ultrasonographic cross–sectional area and mean echogenicity of the superficial and deep digital flexor tendons in 50 trained thoroughbred racehorses. Gillis C, et al.
Am J Vet Res 1995 Oct;56(10):1265–9
Ultrasonography as a method to determine tendon cross–sectional area. Gillis C, et al. **Am J Vet Res** 1995 Oct;56(10):1270–4
Effect of maturation and aging on material and ultrasonographic properties of equine superficial digital flexor tendon. Gillis C, et al. **Am J Vet Res** 1995 Oct; 56(10):1345–50
Pathways of transmission of ultrasound energy through the distal metaphysis of the second phalanx of pigs: an in vitro study. Cadossi R, et al. **Osteoporos Int** 1996;6(3):196–206

FORENSIC ANTHROPOLOGY

Taking the 5000 year old "Jettböle skeletons" out of the closet: a palaeo–medical examination of human remains from the Åland (Ahvenanmaa) Islands. Nunez M, et al.
Int J Circumpolar Health 1997 Apr;56(1–2):30–9
The diagnosis of a murder from skeletal remains: a case report. Vesterby A, et al. **Int J Legal Med** 1997; 110(2):97–100
Standardizing the technique of measurement of the collo–diaphyseal angle. Purkait R. **Med Sci Law** 1996 Oct; 36(4):290–4
Flight 800. Mobilized by disaster. Clark LB.
N Y State Dent J 1996 Nov;62(9):57–9
Flight 800. In the wake of tragedy. Friedman BK, et al.
N Y State Dent J 1996 Nov;62(9):60–1
They were there. Stoll MG. **N Y State Dent J** 1996 Nov; 62(9):54–7
[Examination of the degree of agreement among dental findings used for personal identification (report 5)—canonical correlation between dental findings on dental charts and those on radiographs] Komuro T, et al.
Nippon Hoigaku Zasshi 1996 Dec;50(6):390–9 (Eng. Abstr.) **(Jpn)**

HISTORY

The search for Father Bachelot: first Catholic missionary to the Hawaiian Islands (1827–1837). Pietrusewsky M, et al. **J Forensic Sci** 1997 Mar;42(2):208–12
Forensic three–dimensional facial reconstruction: historical review and contemporary developments. Tyrrell AJ, et al.
J Forensic Sci 1997 Jul;42(4):653–61 (54 ref.)
[Facial reconstruction: the history of a challenge] Sapanet M, et al. **Rev Stomatol Chir Maxillofac** 1997 Sep; 98(3):164–72 (Eng. Abstr.) **(Fre)**

METHODS

The skeletonized body: suicidal inhalation of motorbike exhaust. Busuttil A, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):50–5
Radiographic identification of fragmentary human remains from a mass disaster. Kahana T, et al.
Am J Forensic Med Pathol 1997 Mar;18(1):40–4
Radiographic comparison of the lumbar spine for positive identification of human remains. A case report. Valenzuela A. **Am J Forensic Med Pathol** 1997 Jun;18(2):215–7
Uniqueness of bare feet and its use as a possible means of identification. Kennedy RB. **Forensic Sci Int** 1996 Sep 15; 82(1):81–7
Facial reconstruction: utilization of computerized tomography to measure facial tissue thickness in a mixed racial population. Phillips VM, et al. **Forensic Sci Int** 1996 Nov 11;83(1):51–9
Sex, enamel and forensic dentistry: a search for identity. Slavkin HC. **J Am Dent Assoc** 1997 Jul;128(7):1021–5
Rebuilding the face of George Buchanan (1506–1582). Hill B, et al. **J Audiov Media Med** 1996 Mar;19(1):11–5
Three–dimensional imaging in forensic anthropology: a test study using the Macintosh. Ackermann RR.
J Forensic Sci 1997 Jan;42(1):93–9
Rodents, human remains, and North American hantaviruses: risk factors and prevention measures for forensic science personnel—a review. Fink TM. **J Forensic Sci** 1996 Nov; 41(6):1052–6 (42 ref.)
Optical and digital techniques for enhancing radiographic anatomy for identification of human remains. Fitzpatrick JJ, et al. **J Forensic Sci** 1996 Nov;41(6):947–59
Standardization model for describing the extent of burn injury to human remains. Glassman DM, et al.
J Forensic Sci 1996 Jan;41(1):152–4
Sex determination by discriminant analysis of calcanei measurements. Introna F Jr, et al. **J Forensic Sci** 1997 Jul; 42(4):725–8
A fully three–dimensional method for facial reconstruction based on deformable models. Quatrehomme G, et al.
J Forensic Sci 1997 Jul;42(4):649–52
Investigation of a murder case involving arson. Tsaroom S.
J Forensic Sci 1996 Nov;41(6):1064–7
The remains of Dr. Carl Austin Weiss: anthropological analysis. Ubelaker DH. **J Forensic Sci** 1996 Jan;41(1):60–79
Skeletal evidence for child abuse: a physical anthropological perspective. Walker PL, et al. **J Forensic Sci** 1997 Mar; 42(2):196–207
Allele frequency distributions at several variable number of tandem repeat (VNTR) and short tandem repeat (STR) loci in a restricted Caucasian population from south Italy and their evaluation for paternity and forensic use. Pastore L, et al. **Mol Cell Probes** 1996 Aug;10(4):299–308
[Personal identification with ante– and post–mortem computerized tomography. Report of a case] Lello PP, et al. **Radiol Med (Torino)** 1997 Mar;93(3):313–4 **(Ita)**
[Comparison of mitochondrial DNA sequences of T.N. Kulikovskii–Romanov, the nephew of Tsar Nikolai II Romanov, with DNA from the putative remains of the Tsar] Rogaev EI, et al. **Genetika** 1996 Dec;32(12):1690–2 (Eng. Abstr.) **(Rus)**
[The diagnosis of human sex and body height from fragmented bone remains (Methodological Recommendations No. 94/267 approved by the Ministry of Health and the Medical Industry of Russia 3 July 95)] Zviagin VN, et al. **Sud Med Ekspert** 1997 Jan–Mar; 40(1):24–31 **(Rus)**

ORGANIZATION & ADMINISTRATION

[The coordination of the forensic medical service with the medical criminology subdivisions of internal affairs organs in the personal identification of unidentified corpses] Pashinian GA, et al. **Sud Med Ekspert** 1997 Jan–Mar; 40(1):39–41 (Eng. Abstr.) **(Rus)**

TRENDS

Forensic three–dimensional facial reconstruction: historical review and contemporary developments. Tyrrell AJ, et al.
J Forensic Sci 1997 Jul;42(4):653–61 (54 ref.)

FORENSIC DENTISTRY

Dental identification of war victims from Petrinja in Croatia. Brkic H, et al. **Int J Legal Med** 1997;110(2):47–51
The remains of Dr. Carl Austin Weiss: anthropological analysis. Ubelaker DH. **J Forensic Sci** 1996 Jan;41(1):60–79
Flight 800. Mobilized by disaster. Clark LB.
N Y State Dent J 1996 Nov;62(9):57–9
Flight 800. In the wake of tragedy. Friedman BK, et al.
N Y State Dent J 1996 Nov;62(9):60–1

FORENSIC DENTISTRY

They were there. Stoll MG. **N Y State Dent J** 1996 Nov; 62(9):54–7

[Examination of the degree of agreement among dental findings used for personal identification (report 5)—canonical correlation between dental findings on dental charts and those on radiographs] Komuro T, et al. **Nippon Hoigaku Zasshi** 1996 Dec;50(6):390–9 (Eng. Abstr.) **(Jpn)**

[Identification of bodies in mass disasters. The aircraft on Svalbard] Olaisen B. **Tidsskr Nor Laegeforen** 1997 Mar 20; 117(8):1069–70 **(Nor)**

[The current status of personal identification by dental status] Pashinian GA, et al. **Sud Med Ekspert** 1996 Oct–Dec; 39(4):52–4 (25 ref.) **(Rus)**

ECONOMICS

Payments for attending court [letter] Britton DA. **Br Dent J** 1997 Sep 13;183(5):156

EDUCATION

Do experts need training as witnesses? [letter] Pamplin C. **Br J Oral Maxillofac Surg** 1997 Aug;35(4):299–300

LEGISLATION & JURISPRUDENCE

The past and present legal weight of bite marks as evidence [see comments] Aksu MN, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):136–40 (37 ref.) . Comment in: Am J Forensic Med Pathol 1996 Dec;17(4):352–4.

METHODS

Oral autopsy of unidentified burned human remains. A new procedure. Fereira J, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):306–11 (24 ref.)

Effect of environmental factors on PCR–DNA analysis from dental pulp. Alvarez García A, et al. **Int J Legal Med** 1996; 109(3):125–9

Sex, enamel and forensic dentistry: a search for identity. Slavkin HC. **J Am Dent Assoc** 1997 Jul;128(7):1021–5

Identification of Euro–Americans, Afro–Americans, and Amerindians from palatal dimensions. Byers SN, et al. **J Forensic Sci** 1997 Jan;42(1):3–9

Long–term validation study of bitewing dental radiographs for forensic identification. Kogon SL, et al. **J Forensic Sci** 1996 Mar;41(2):230–2

Digital video image capture in establishing positive identification. Marks MK, et al. **J Forensic Sci** 1997 May; 42(3):492–5

Endodontics as a dental identification [letter] Weisman MI. **J Forensic Sci** 1997 May;42(3):535

A cross–sectional study of canine dimorphism in establishing sex identity: comparison of two statistical methods. Sherfudhin H, et al. **J Oral Rehabil** 1996 Sep;23(9):627–31

[The study of bone, nail and tooth fragments] Trapeznikova TA. **Sud Med Ekspert** 1996 Oct–Dec;39(4):21–2 **(Rus)**

TRENDS

The past and present legal weight of bite marks as evidence [see comments] Aksu MN, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):136–40 (37 ref.) . Comment in: Am J Forensic Med Pathol 1996 Dec;17(4):352–4.

FORENSIC MEDICINE

Proceedings of the XVIth Congress of the International Academy of Legal Medicine and Social Medicine. Strasbourg, France, 31 May–2 June, 1994. **Acta Med Leg Soc (Liege)** 1994;44:1–532

Public relations for the Medical Examiner's Office. Speech delivered September 27, 1994, Charleston, South Carolina, USA, on receiving the Helpern Laureate Award. Coe JI. **Am J Forensic Med Pathol** 1997 Mar;18(1):26–32

Sudden death and benzodiazepines. Drummer OH, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):336–42

A study among the population of Sevilla of death due to submersion. Gamero J, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):70–4

Medicolegal investigation of death in custody: a postmortem procedure for detection of blunt force injuries. Hiss J, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):312–4

Forensic medicine in Israel. Hiss J, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):154–7

Diffuse axonal injury: its mechanism in an assault case. Imajo T. **Am J Forensic Med Pathol** 1996 Dec;17(4):324–6

Homicide by strangling or dumping with postmortem injuries after heroin poisoning? Missliwetz J, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):211–4

Technical note: error in Olivier and Pineau's regression formulae for calculation of stature and lunar age from radial diaphyseal length in forensic fetal remains. Huxley AK, et al. **Am J Phys Anthropol** 1996 Jul;100(3):435–7

The proliferation and risks of government DNA databases. Sankar P. **Am J Public Health** 1997 Mar;87(3):336–7

Forensic science. Brettell TA, et al. **Anal Chem** 1997 Jun 15;69(12):123R–143R (811 ref.)

Determining EDTA in blood. Sheppard RL, et al. **Anal Chem** 1997 Aug 1;69(15):477A–480A

Forensic examination of adolescent female genitalia: the Foley catheter technique. Starling SP, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):102–3

Role of metabolites in aviation forensic toxicology. Chaturvedi AK, et al. **Aviat Space Environ Med** 1997 Mar; 68(3):230–3 (30 ref.)

Medicolegal aspects of deliberate foul play in rugby union [editorial] Grayson E. **Br J Sports Med** 1996 Sep; 30(3):191–2

Experiences of a forensic pathologist in the examination of a mass grave in former Yugoslavia. Chandrasiri N. **Ceylon Med J** 1997 Jun;42(2):98–102

Validation of the Applied Biosystems Prism 377 automated sequencer for the forensic short tandem repeat analysis. Frazier RR, et al. **Electrophoresis** 1996 Oct;17(10):1550–2

Five cases of forensic short tandem repeat DNA typing. Schmitt C, et al. **Electrophoresis** 1997 May;18(5):690–4

Successful deoxyribonuclease I (DNase I) phenotyping from a small piece of used sock. Yasuda T, et al. **Electrophoresis** 1996 Jul;17(7):1253–6

High–risk obstetrics, medicolegal problems. Herczeg J. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):181–5 (14 ref.)

Estimation of stature from stride length while walking fast. Jasuja OP, et al. **Forensic Sci Int** 1997 May 5;86(3):181–6

Biomechanical properties of the human tibia: fracture behavior and morphology. Rabl W, et al. **Forensic Sci Int** 1996 Nov 11;83(1):39–49

Who dies at A&E? The role of forensic pathology in the audit of mortality in an emergency medicine department [published erratum appears in Forensic Sci Int 1996 Dec 2;83(2):159] Seow E, et al. **Forensic Sci Int** 1996 Oct 25; 82(3):201–10

In the courts [news] Moskowitz E. **Hastings Cent Rep** 1996 Jan–Feb;26(1):47–8

DNA recommendations. Further report of the DNA Commission of the ISFH regarding the use of short tandem repeat systems. International Society for Forensic Haemogenetics [editorial] Bär W, et al. **Int J Legal Med** 1997;110(4):175–6

Analysis of "Ecstasy" by capillary electrophoresis. Frost M, et al. **Int J Legal Med** 1996;109(2):53–7

On the physics of momentum in ballistics: can the human body be displaced or knocked down by a small arms projectile? Karger B, et al. **Int J Legal Med** 1996; 109(3):147–9 (9 ref.)

mtDNA as a tool for identification of human remains. Identification using mtDNA. Lutz S, et al. **Int J Legal Med** 1996;109(4):205–9

The validation of a 7–locus multiplex STR test for use in forensic casework. (II), Artefacts, casework studies and success rates. Sparkes R, et al. **Int J Legal Med** 1996; 109(4):195–204

The validation of a 7–locus multiplex STR test for use in forensic casework. (I). Mixtures, ageing, degradation and species studies. Sparkes R, et al. **Int J Legal Med** 1996; 109(4):186–94

Practice parameters for the forensic evaluation of children and adolescents who may have been physically or sexually abused. AACAP Official Action. American Academy of Child and Adolescent Psychiatry. **J Am Acad Child Adolesc Psychiatry** 1997 Mar;36(3):423–42 (165 ref.)

The confirmation of volatiles by solid–phase microextraction and GC–MS in the investigation of two traffic fatalities. Brewer WE, et al. **J Anal Toxicol** 1997 Jul–Aug; 21(4):286–90

Forensic application of an automated drug–profiling system. Kalasinsky KS, et al. **J Anal Toxicol** 1995 Oct;19(6):412–8

Postmortem distribution of nicotine and cotinine from a case involving the simultaneous administration of multiple nicotine transdermal systems. Kemp PM, et al. **J Anal Toxicol** 1997 Jul–Aug;21(4):310–3

Development of a supercritical fluid extraction method for the determination of temazepam in whole blood. Scott KS, et al. **J Anal Toxicol** 1997 Jul–Aug;21(4):297–300

Use of high–performance liquid chromatography with photodiode–array UV detection for the creation of a 600–compound library. Application to forensic toxicology. Gaillard Y, et al. **J Chromatogr A** 1997 Feb 28; 763(1–2):149–63

Forensic analysis of eleven cyclic antidepressants in human biological samples using a new reversed–phase chromatographic column of 2 microm porous microspherical silica gel. Tanaka E, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):405–12

A fatal case of methotrimeprazine overdose. Avis SP, et al. **J Forensic Sci** 1996 Nov;41(6):1080–1

Variability of the blood/breath alcohol ratio in drinking drivers. Jones AW, et al. **J Forensic Sci** 1996 Nov; 41(6):916–21

Influence of age, gender, and blood–alcohol concentration on the disappearance rate of alcohol from blood in drinking drivers. Jones AW, et al. **J Forensic Sci** 1996 Nov; 41(6):922–6

Not under the hammer: a revolver suicide. Lew EO, et al. **J Forensic Sci** 1996 Mar;41(2):317–9

Suicidal chloroquine poisoning: clinical course, autopsy findings, and chemical analysis. Muhm M, et al. **J Forensic Sci** 1996 Nov;41(6):1077–9

An assessment of DNA contamination risks in New York City Medical Examiner facilities. Toledano T, et al. **J Forensic Sci** 1997 Jul;42(4):721–4

Haplotyping of mitochondrial DNA in the D–loop region by PCR: forensic application. Pai CY, et al. **J Formos Med Assoc** 1997 Feb;96(2):73–82

Forensic documentation of battered pregnant women. Sheridan DJ. **J Nurse Midwifery** 1996 Nov–Dec; 41(6):467–72 (14 ref.)

Using crime statistics in nursing. Standing Bear ZG. **J Psychosoc Nurs Ment Health Serv** 1996 Oct;34(10):16–23

Forensic (medico–legal) necropsy of wildlife. Wobeser G. **J Wildl Dis** 1996 Apr;32(2):240–9 (9 ref.)

Solvent abuse: a case report and a review. Sarvesvaran R, et al. **Malays J Pathol** 1994 Dec;16(2):167–71 (22 ref.)

–editorial–00 **Med Leg J** 1996;64 (Pt 1):3–4

Legal issues concerning the taking of blood samples by a forensic medical examiner [letter; comment] Corre N. **Med Leg J** 1996;64 (Pt 4):198–9. Comment on: Med Leg J 1996;64 (Pt 1):43.

Homicide by strychnine poisoning. Benomran FA, et al. **Med Sci Law** 1996 Jul;36(3):271–3

Suicide of a prisoner with multiple missiles: a case report. Gee DJ. **Med Sci Law** 1996 Jan;36(1):85–90

Rubber and plastic ammunition lethal injuries: the Israeli experience. Hiss J, et al. **Med Sci Law** 1997 Apr; 37(2):139–44

The Lund lecture: television, science and the law. Jessel D. **Med Sci Law** 1997 Jan;37(1):4–15

Estimation of fetal age by histological study of kidney. Kumar KU, et al. **Med Sci Law** 1996 Jul;36(3):226–30

When a 'match' is not a genetic match [letter] Levine L, et al. **Med Sci Law** 1996 Oct;36(4):358

Physical aspects of alleged sexual assaults. Rogers D. **Med Sci Law** 1996 Apr;36(2):117–22

Diseases of the airways and lungs in forensic autopsy material of alcoholics. Thomsen JL. **Med Sci Law** 1997 Jan; 37(1):23–6

The forensic application of testing hair for drugs of abuse. Miller ML, et al. **NIDA Res Monogr** 1997;167:146–60 (12 ref.)

Astrocytic reaction in long–term resuscitation. Fassina G, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):77–82

Grazing bullet wounds on the tongue and liver. Hayase T, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):268–71

Estimation of sex and age by calcification pattern of costal cartilage in Japanese. Inoi T. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):89–94

A fatal case of drinking and cyanamide intake. Kojima T, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):111–5

Genotyping of ABO blood group system by PCR and RFLP on mummies discovered at Taklamakan desert in 1912. Lin Z, et al. **Nippon Hoigaku Zasshi** 1996 Oct;50(5):336–42

A medico–legal approach to the myocardial changes caused by transthoracic direct current countershock. Matsuda H, et al. **Nippon Hoigaku Zasshi** 1997 Feb;51(1):11–7

Endogenous ethanol production in trauma victims associated with medical treatment. Moriya F, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):263–7

Screening of antipsychotic drugs by wide–bore capillary gas chromatography with nitrogen phosphorus detection—detection levels in plasma. Tokunaga H, et al. **Nippon Hoigaku Zasshi** 1996 Jun;50(3):196–202

Sudden death due to diabetic coma in insulin–department diabetes mellitus: an autopsy report. Yamazaki M, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):102–10

An autopsy case of extremely immature newborn covered with fetal membrane. Zhu BL, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):272–5

Use of a microscope and video colposcope in sexual assault investigations [letter] Peele K, et al. **Nurse Pract** 1997 Apr; 22(4):250–2

Hypoglycemia as a mitigating factor in vehicular accidents. Piotrowski C. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1241–2

Discussion of "The evaluation of forensic DNA evidence" [comment] Bickel PJ. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5497. Comment on: Proc Natl Acad Sci U S A 1997 May 27;94(11):5498–500.

Assessment of alleged rape victims [letter; comment] London L, et al. **S Afr Med J** 1996 Jul;86(7):844; discussion 845 . Comment on: S Afr Med J 1996 Mar;86(3):237–8.

Assessment of alleged rape victims [letter; comment] Price M. **S Afr Med J** 1996 Jul;86(7):842; discussion 845. Comment on: S Afr Med J 1996 Mar;86(3):237–8.

Assessment of alleged rape victims [letter; comment] Wood K, et al. **S Afr Med J** 1996 Jul;86(7):842, 844; discussion 845. Comment on: S Afr Med J 1996 Mar;86(3):237–8.

The collection of data from findings in cases of sexual assault and the significance of spermatozoa on vaginal, anal and oral swabs. Allard JE. **Sci Justice** 1997 Apr–Jun; 37(2):99–108

Does justice require less precision than chemistry? [editorial] Brownlie AR. **Sci Justice** 1997 Apr–Jun;37(2):73–4

Phylogenetic analysis: getting its day in court [news] Vogel G. **Science** 1997 Mar 14;275(5306):1559–60

[The expert facing medical hazard] Baste JC. **Chirurgie** 1996; 121(7):515–8 **(Fre)**

[Responsibility and deontology of the medicolegal expertise] Hureau J. **Chirurgie** 1996;121(7):507–14 **(Fre)**

[Legal aspects of vascular injuries and their forensic medical sequelae] Natali J. **J Mal Vasc** 1996 Nov;21(4):256–60 (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular punctures and catheterization and radiologic procedures with diagnostic or therapeutic purpose] Natali J, et al. **J Mal Vasc** 1996

Nov;21(4):238–47 (9 ref.) (Eng. Abstr.) **(Fre)**

[Forensic medical implications of lymph node and lymphatic injuries] Natali J. **J Mal Vasc** 1996 Nov;21(4):248–9 (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular injuries in orthopedic surgery] Natali J. **J Mal Vasc** 1996 Nov; 21(4):206–15 (9 ref.) (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular injuries and accidents related to the practice of conventional vascular surgery] Natali J. **J Mal Vasc** 1996 Nov;21(4):216–9 (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular injuries and accidents related to the practice of conventional general surgery] Natali J. **J Mal Vasc** 1996 Nov;21(4):220–2 (Eng. Abstr.) **(Fre)**

[Forensic medical implications of vascular injuries in the course of video–endoscopic surgery] Natali J. **J Mal Vasc** 1996 Nov;21(4):223–6 (Eng. Abstr.) **(Fre)**

[Forensic medical implications in the course of sclerotherapy of varicose veins] Natali J, et al. **J Mal Vasc** 1996 Nov; 21(4):227–32 (Eng. Abstr.) **(Fre)**

[Forensic medical implications in surgery of chronic venous insufficiency of the legs] Perrin M, et al. **J Mal Vasc** 1996 Nov;21(4):233–7 (Eng. Abstr.) **(Fre)**

[Forensic medical implications of anticoagulant treatments] Samama M, et al. **J Mal Vasc** 1996 Nov;21(4):250–5 (Eng. Abstr.) **(Fre)**

[Use of the computer in dentistry: video superimposition and facial reproduction using the expedience of the computer interface] Smeets B, et al. **Rev Belge Med Dent** 1996; 51(4):272–83 (Eng. Abstr.) **(Fre)**

[From court medicine to forensic medicine (editorial)] Bär W. **Ther Umsch** 1997 May;54(5):215–6 **(Ger)**

[Medical examination of sexual assault victims] Wyler D, et al. **Ther Umsch** 1997 May;54(5):225–31 (Eng. Abstr.) **(Ger)**

[Report on medico–legal data from the mass–investigation performed by the Medico–Legal Society of Japan (XIV). Autopsy cases of traffic accidents in Japan (1990–1994). Planning and Development Committee of The Medico–Legal Society of Japan] **Nippon Hoigaku Zasshi** 1997 Apr;51(2):120–6 (Eng. Abstr.) **(Jpn)**

[Report on medico–legal data from the mass–investigation performed by The Medico–Legal Society of Japan (XV). Autopsy cases of therapeutic complications and other medical misadventures in Japan (1981–1991). Planning and Development Committee of The Medico–Legal Society of Japan] **Nippon Hoigaku Zasshi** 1997 Apr;51(2):127–34 (Eng. Abstr.) **(Jpn)**

[The 81st Congress of the Medico–Legal Society of Japan. Kagoshima, April 16–18, 1997. Abstracts] **Nippon Hoigaku Zasshi** 1997 Mar;51 Suppl:1–195 **(Jpn)**

[Haplotype analysis using two tetrameric loci within the vWF gene: its frequency in Japanese and application in forensic medicine] Dewa K. **Nippon Hoigaku Zasshi** 1996 Oct; 50(5):349–56 (Eng. Abstr.) **(Jpn)**

[Application of operant conditioning techniques to forensic toxicology: experimental studies on alcohol and abusable drugs] Hishida S. **Nippon Hoigaku Zasshi** 1996 Oct; 50(5):292–319 (Eng. Abstr.) **(Jpn)**

[A method to calculate the probability of paternity between relatives--a paternity case where the putative father was a deceased granduncle] Ishitani A, et al. **Nippon Hoigaku Zasshi** 1996 Jun;50(3):182–9 (Eng. Abstr.) **(Jpn)**

[A case of death due to mitral regurgitation caused by traumatic mitral valve injury] Iwasaki Y, et al. **Nippon Hoigaku Zasshi** 1996 Jun;50(3):178–81 (Eng. Abstr.) **(Jpn)**

[Discovery of genetic polymorphism of human nucleases] Kishi K. **Nippon Hoigaku Zasshi** 1996 Oct;50(5):281–91 (Eng. Abstr.) **(Jpn)**

[Death due to cold of a 63–year–old male associated with hepatocellular carcinoma--bibliographic consideration on alcohol metabolism of the patients with liver dysfunction] Kondo T, et al. **Nippon Hoigaku Zasshi** 1996 Aug; 50(4):276–80 (Eng. Abstr.) **(Jpn)**

[Methamphetamine–like substance detected only in stomach contents from autopsied cadavers] Maruyama K, et al. **Nippon Hoigaku Zasshi** 1996 Jun;50(3):168–73 (Eng. Abstr.) **(Jpn)**

[Paternity probability in the cases of incest] Minakata K, et al. **Nippon Hoigaku Zasshi** 1996 Jun;50(3):149–55 (Eng. Abstr.) **(Jpn)**

[Forensic practice in Hamburg] Miyaishi S. **Nippon Hoigaku Zasshi** 1996 Oct;50(5):366–73 (Eng. Abstr.) **(Jpn)**

[Personal identification using DNA polymorphism--the identification of forensic biological materials] Shiono H. **Nippon Hoigaku Zasshi** 1996 Oct;50(5):320–30 (Eng. Abstr.) **(Jpn)**

[Demonstration of heat shock protein, ubiquitin, in fire death autopsy cases by immunohistochemical study] Shoji T. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):70–6 (Eng. Abstr.) **(Jpn)**

[Forensic application of biochemical blood analysis--studies on CPK and LDH isozymes] Tsuji A, et al. **Nippon Hoigaku Zasshi** 1996 Dec;50(6):385–9 (Eng. Abstr.) **(Jpn)**

[The 4th international conference of World Police Medical Officers in Clinical Forensic Medicine in Kumamoto, Japan] Tsunenari S, et al. **Nippon Hoigaku Zasshi** 1997 Feb; 51(1):56–62 (Eng. Abstr.) **(Jpn)**

[Shotshell injuries--single or multiple shots?--a case report] Yamamoto H, et al. **Nippon Hoigaku Zasshi** 1996 Jun; 50(3):190–5 (Eng. Abstr.) **(Jpn)**

[A suicidal case of electrocution with hypnotic drug poisoning: an autopsy report] Yamazaki M, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):95–101 (Eng. Abstr.) **(Jpn)**

[With the microscope as weapon. A comment to criminal novels by Patricia D. Cornwell] Akslen LA. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1149–52 (Eng. Abstr.) **(Nor)**

[Identification of bodies in mass disasters. The aircraft on Svalbard] Olaisen B. **Tidsskr Nor Laegeforen** 1997 Mar 20; 117(8):1069–70 **(Nor)**

[Forensic autopsy after possible medical malpractice. A 3–year material from the Institute of Forensic Medicine in Oslo, 1993–95] Rognum TO, et al. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2969–73 (Eng. Abstr.) **(Nor)**

[The action of an explosion on the human body (the pathomorphological, forensic medical and criminalistics aspects)] Apollonov AIu, et al. **Sud Med Ekspert** 1996 Oct–Dec;39(4):4–7 **(Rus)**

[The 4th All–Russian Congress of Forensic Physicians] Kinle AF. **Sud Med Ekspert** 1997 Jan–Mar;40(1):3–6 **(Rus)**

[The All–Russian Society of Forensic Medical Personnel in the period between congresses (1992–1996)] Kriukov VN, et al. **Sud Med Ekspert** 1997 Apr–Jun;40(2):6–8 **(Rus)**

[The forensic medical evaluation of independent foot injuries and the establishment of expert versions of their origins] Kulikov SN. **Sud Med Ekspert** 1996 Oct–Dec;39(4):12–3 **(Rus)**

[The completion of the work on collecting and classifying the Russian literature on forensic medicine (news)] Viter VI, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):50 **(Rus)**

[Legal medicine: the criminals and the crime] Reverte Coma JM. **An R Acad Nac Med (Madr)** 1996;113(3):797–819; discussion 819–20 **(Spa)**

ECONOMICS

Compensation of medical examiners for telephone calls [letter] Taff ML. **Am J Forensic Med Pathol** 1996 Jun; 17(2):174–5

Alcohol estimation at necropsy: epidemiology, economics, and the elderly. Cox DE, et al. **J Clin Pathol** 1997 Mar; 50(3):197–201

A national survey of autopsy cost and workload. Jason DR, et al. **J Forensic Sci** 1997 Mar;42(2):270–5

[Mechanism of differentiated work payment under conditions of intensified medical activities] Dontsov VG. **Probl Sotsialnoi Gig Istor Med** 1995 Mar–Apr;(2):41–3 (Eng. Abstr.) **(Rus)**

EDUCATION

Postgraduate forensic science education in Turkey. Atasoy S, et al. **J Forensic Sci** 1996 Mar;41(2):206–8

HISTORY

The life and work of Erik M. P. Widmark. Andréasson R, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):177–90

Nineteenth–century Massachusetts coroner inquests. Mellen PF, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):207–10

Historical note and notice: The New York Society of Forensic Sciences at Lehman College, City University of New York, 1985 to 1996. Taff ML, et al. **Bull N Y Acad Med** 1997 Summer;74(1):148–50

History of hair analysis. Sachs H. **Forensic Sci Int** 1997 Jan 17;84(1–3):7–16

Death registration: history, methods, and legal issues. Hanzlick R. **J Forensic Sci** 1997 Mar;42(2):265–9

Evidence of pin implantation as a means of verifying death during the Great Plague of Marseilles (1722). Leonetti G, et al. **J Forensic Sci** 1997 Jul;42(4):744–8

[Contribution of the Department of Forensic Medicine of the Military Medical (Medico–Surgical) Academy to the development of the toxicological trend in forensic medical research (on the 200th anniversary of the Military Medical Academy)] Isakov VD, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):53–6 **(Rus)**

[The role of the Department of Forensic Medicine of the Military Medical Academy in the study of gunshot and blast trauma] Isakov VD, et al. **Voen Med Zh** 1997 Mar; 318(3):68–70 **(Rus)**

[Professor Max Westenhöfer (1871–1957) in Chile] Manríquez G. **Rev Med Chil** 1995 Oct;123(10):1313–7 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

An improved method for the preparation of combs for use in hair combing kits. Griffin RM, et al. **Sci Justice** 1997 Apr–Jun;37(2):109–11

LEGISLATION & JURISPRUDENCE

Lawsuits against medical examiners or coroners arising from death certificates. Hanzlick R. **Am J Forensic Med Pathol** 1997 Jun;18(2):119–23

Comment on "the past and present legal weight of bite marks as evidence" [letter; comment] Norrlander AL. **Am J Forensic Med Pathol** 1996 Dec;17(4):352–4. Comment on: Am J Forensic Med Pathol 1996 Jun;17(2):136–40.

Endoscopy is not autopsy [letter] Taff ML, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):86–8

Legal standards and the significance of DNA evidence. Gomulkiewicz R, et al. **Hum Biol** 1997 Oct;69(5):675–88

Death registration: history, methods, and legal issues. Hanzlick R. **J Forensic Sci** 1997 Mar;42(2):265–9

Commentary on McBay AJ. Cocaine sentencing. J Forensic Sci 1996 Jan;41(1):3–4 [letter; comment] Heagy JA. **J Forensic Sci** 1996 Nov;41(6):1086–9. Comment on: J Forensic Sci 1996 Jan;41(1):3–4.

Affording brutality the cloak of law -- consent to medical examination of suspects and children. McGleenan T. **Med Sci Law** 1996 Jan;36(1):9–14

HIV sequence analysis used in court case [news] **Nat Biotechnol** 1997 May;15(5):397

[Forensic autopsies performed because of suspected occupational disease during the period 1987–1991—counties of Funen and Southern Jutland. Guidelines for physicians' notifications and a review of autopsy practice during 5 years] Molsted K. **Ugeskr Laeger** 1997 Apr 28;159(18):2711–5 (Eng. Abstr.) **(Dan)**

[The regulations for the forensic medical expertise of the severity of harm to health. Appendix 2 to the order of the Ministry of Public Health of the Russian Federation of 10 December 1996 No. 407] **Sud Med Ekspert** 1997 Apr–Jun;40(2):48–53 **(Rus)**

[The regulations for the forensic medical expertise of a corpse. Appendix 1 to the order of the Ministry of Public Health of the Russian Federation of 10 December 1996 No. 407] **Sud Med Ekspert** 1997 Jul–Sep;40(3):44–53 **(Rus)**

[Problems with the order of admittance to the performance of the professional activities of forensic medical experts] Mazurenko MD. **Sud Med Ekspert** 1997 Jan–Mar;40(1):7–8 **(Rus)**

[Medical forensic aspects of the Penal Code] Ladrón de Guevara J. **An R Acad Nac Med (Madr)** 1997;114(1):213–43 **(Spa)**

[More distinct rules when taking care of the deceased. New regulations give better directives] Orn P. **Lakartidningen** 1997 Jul 23;94(30–31):2614 **(Swe)**

METHODS

Homicidal tandem bullet wound of the chest. Bentley AJ, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):56–9 (13 ref.)

Cockroach: the omnivorous scavenger. Potential misinterpretation of postmortem injuries. Denic N, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):177–80

Evaluation of agonal artifacts in the myocardium using a combination of histological stains and immunohistochemistry. Edston E. **Am J Forensic Med Pathol** 1997 Jun;18(2):163–7

The Abbreviated Injury Scale. A valuable tool for forensic documentation of trauma. Friedman Z, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):233–8

Application of high–performance liquid chromatography/mass spectrometry to drug screening. Higuchi T, et al. **Am J Forensic Med Pathol** 1996 Mar; 17(1):21–3

Bayesian evaluation of the modified zinc test and the acid phosphatase spot test for forensic semen investigation. Hooft PJ, et al. **Am J Forensic Med Pathol** 1997 Mar; 18(1):45–9

Determination of postmortem interval by sampling vitreous humour. James RA, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):158–62

Pretrial communication with defense counsel by medical examiners' pathologists. Jason DR, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):124–8

Postmortem production of ethanol and factors that influence interpretation: a critical review. O'Neal CL, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):8–20 (48 ref.)

Postmortem coronary subtraction angiography. Prahlow JA, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):225–30

Unusual presentation of death due to carbon monoxide poisoning. A report of two cases. Ruszkiewicz A, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):181–4

Traces of ricocheted action safety bullets. Schyma C, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):15–20

Ambulatory monitoring devices and the forensic autopsy. Weitzman JB, et al. **Am J Forensic Med Pathol** 1996 Sep; 17(3):210–6

DNA identification [letter; comment] Morton NE. **Am J Hum Genet** 1996 Dec;59(6):1398–400. Comment on: Am J Hum Genet 1996 Feb;58(2):398–407.

Ethnic–affiliation estimation by use of population–specific DNA markers. Shriver MD, et al. **Am J Hum Genet** 1997 Apr;60(4):957–64

Hydrogen peroxide decomposes the heme compound in forensic specimens and improves the efficiency of PCR. Akane A. **Biotechniques** 1996 Sep;21(3):392–4

Twenty years in the evaluation of the sexually abused child: has medicine helped or hurt the child and the family? [comment] Heger AH. **Child Abuse Negl** 1996 Oct; 20(10):893–7. Comment on: Child Abuse Negl 1996 Oct;20(10):985–91.

Forensic DNA tests. Weedn VW. **Clin Lab Med** 1996 Mar; 16(1):187–96 (40 ref.)

Application of forensic identity testing in a clinical setting. Specimen identification. Tsongalis GJ, et al. **Diagn Mol Pathol** 1997 Apr;6(2):111–4

A novel europium–bioconjugate method for latent fingerprint detection. Allred CE, et al. **Forensic Sci Int** 1997 Feb 28; 85(2):83–94

Further validation of a multiplex STR system for use in routine forensic identity testing. Andersen JF, et al. **Forensic Sci Int** 1996 Mar 5;78(1):47–64

Drugs and alcohol among suspected impaired drivers in Canton de Vaud (Switzerland). Augsburger M, et al. **Forensic Sci Int** 1997 Feb 28;85(2):95–104

Outer ear temperature and time of death. Baccino E, et al. **Forensic Sci Int** 1996 Dec 2;83(2):133–46

Comparative chemical analyses of drug samples: general approach and application to heroin. Besacier F, et al. **Forensic Sci Int** 1997 Feb 28;85(2):113–25

Detection of white restorative dental materials using an alternative light source. Carson DO, et al. **Forensic Sci Int** 1997 Aug 4;88(2):163–8

Site of entrance wound and direction of bullet path in firearm fatalities as indicators of homicide versus suicide. Druid H. **Forensic Sci Int** 1997 Aug 4;88(2):147–62

The utility of 'substrate controls' in relation to 'contamination'. Gill P. **Forensic Sci Int** 1997 Feb 28; 85(2):105–11

A possible chemical explanation for the events associated with the death of Gloria Ramirez at Riverside General Hospital. Grant PM, et al. **Forensic Sci Int** 1997 Jun 23; 87(3):219–37

A discussion of 'PCR DNA typing of stamps: evaluation of the DNA extraction' [letter; comment] Hochmeister MN. **Forensic Sci Int** 1996 Nov 11;83(1):75–9. Comment on: Forensic Sci Int 1996 Apr 2;78(2):103–10.

Fatal overdose of clozapine. Keller T, et al. **Forensic Sci Int** 1997 Apr 18;86(1–2):119–25

Injuries to the hyoid bone and laryngeal cartilages: effectiveness of different methods of medico–legal investigation. Khokhlov VD. **Forensic Sci Int** 1997 Aug 22;88(3):173–83

Reconsideration of the sequence of rigor mortis through postmortem changes in adenosine nucleotides and lactic acid in different rat muscles. Kobayashi M, et al. **Forensic Sci Int** 1996 Oct 25;82(3):243–53

Amphetamine derivative related deaths. Lora–Tamayo C, et al. **Forensic Sci Int** 1997 Feb 28;85(2):149–57

Bevelling in exit gunshot wounds in bones. Quatrehomme G, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):93–101

Identification by frontal sinus pattern in forensic anthropology. Quatrehomme G, et al. **Forensic Sci Int** 1996 Dec 2;83(2):147–53 (24 ref.)

Optimization of a simple method for the chiral separation of phenethylamines of forensic interest based on cyclodextrin complexation capillary electrophoresis and its preliminary application to the analysis of human urine and hair. Scarcella D, et al. **Forensic Sci Int** 1997 Sep 19; 89(1–2):33–46

Basic issues in forensic DNA typing. Schneider PM. **Forensic Sci Int** 1997 Jul 18;88(1):17–22 (14 ref.)

Increasing DNA extraction yield from saliva stains with a modified Chelex method. Sweet D, et al. **Forensic Sci Int** 1996 Dec 27;83(3):167–77

Forensic examination of a mouse allegedly found in a previously sealed can of milk stout. Williams MC. **Forensic Sci Int** 1996 Oct 25;82(3):211–5

Significant genetic correlations among Caucasians at forensic DNA loci. Balding DJ, et al. **Heredity** 1997 Jun;78 (Pt 6):583–9

Forensic evaluation of HUMCD4: an Italian database. Casarino L, et al. **Int J Legal Med** 1996;109(1):49–51

The distinction between lacerations and cuts in ligaments and tendons. Du Chesne A, et al. **Int J Legal Med** 1996; 109(1):1–4

A new method of STR interpretation using inferential logic—development of a criminal intelligence database. Gill P, et al. **Int J Legal Med** 1996;109(1):14–22

The forensic value of the immunohistochemical detection of oestrogen receptors in vaginal epithelium. Hausmann R, et al. **Int J Legal Med** 1996;109(1):10–3

Analysis of the STR loci HUMF13A01, HUMFXIIIB, HUMLIPOL, HUMTH01, HUMTPOX and HUMVWFA31 in a Japanese population. Nagai A, et al. **Int J Legal Med** 1996;109(1):34–6

Evaluation of 7 DNA markers (D1S80, HLA–DQ alpha, LDLR, GYPA, HBGG, D7S8 and GC) in a Japanese population. Nakajima T, et al. **Int J Legal Med** 1996; 109(1):47–8

Macrophage subtyping in the determination of age of injection sites. Schulz–Schaeffer WJ, et al. **Int J Legal Med** 1996;109(1):29–33

High concentration of ciprofloxacin in urine invalidates EMIT results. Lora–Tamayo C, et al. **J Anal Toxicol** 1996 Sep;20(5):334

Dilution of blood collected for medicolegal alcohol analysis by intravenous fluids. Riley D, et al. **J Anal Toxicol** 1996 Sep;20(5):330–1

A practical approach to determination of laboratory GC–MS limits of detection. Underwood PJ, et al. **J Anal Toxicol** 1997 Jan–Feb;21(1):12–6

Screening and identification of drugs in human hair by high–performance liquid chromatography–photodiode–array UV detection and gas chromatography–mass spectrometry after solid–phase extraction. A powerful tool in forensic medicine. Gaillard Y, et al. **J Chromatogr A** 1997 Feb 21;762(1–2):251–67

Gas chromatographic–mass spectrometric determination of beta 2–agonists in postmortem blood: application in forensic medicine. Couper FJ, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):265–72

Potential of high–performance liquid chromatography with photodiode array detection in forensic toxicology. Lambert WE, et al. **J Chromatogr B Biomed Appl** 1997 Feb 7; 689(1):45–53 (22 ref.)

Large–volume sample stacking of selected drugs of forensic significance by capillary electrophoresis. McGrath G, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):125–31

Analysis of organic volatile impurities as a forensic tool for the examination of bulk pharmaceuticals. Mulligan KJ, et al. **J Chromatogr B Biomed Appl** 1996 Nov 8;686(1):85–95 (46 ref.)

Use of DNA identification for forensic and paternity analysis. Baird ML. **J Clin Lab Anal** 1996;10(6):350–8 (34 ref.)

Alcohol estimation at necropsy: epidemiology, economics, and the elderly. Cox DE, et al. **J Clin Pathol** 1997 Mar; 50(3):197–201

The estimation of age of bloodstains by HPLC analysis. Andrasko J. **J Forensic Sci** 1997 Jul;42(4):601–7

GC/MS comparison of the West Indian aphrodisiac "Love Stone" to the Chinese medication "chan su": bufotenine and related bufadienolides. Barry TL, et al. **J Forensic Sci** 1996 Nov;41(6):1068–73

Fluorescence spectroscopy as an aid to imaging latent fingermarks in the ultraviolet. Bramble SK. **J Forensic Sci** 1996 Nov;41(6):1038–41

Validation studies of the CTT STR multiplex system. Budowle B, et al. **J Forensic Sci** 1997 Jul;42(4):701–7

Traffic fatality related to the use of methylenedioxymethamphetamine. Crifasi J, et al. **J Forensic Sci** 1996 Nov;41(6):1082–4

PCR–based forensic testing of DNA from stained cytological smears. Dimo–Simonin N, et al. **J Forensic Sci** 1997 May; 42(3):506–9

A compilation of fatal and control concentrations of drugs in postmortem femoral blood. Druid H, et al. **J Forensic Sci** 1997 Jan;42(1):79–87

A statistical approach to the prediction of verifiable heroin use from total codeine and total morphine concentrations in urine. Fuller DC. **J Forensic Sci** 1997 Jul;42(4):685–9

HLA DQA1 and Polymarker validations for forensic casework: standard specimens, reproducibility, and mixed specimens. Gross AM, et al. **J Forensic Sci** 1996 Nov; 41(6):1022–6

Suicidal terrorist bombings in Israel—identification of human remains. Kahana T, et al. **J Forensic Sci** 1997 Mar; 42(2):260–4

An unusual penetrating neck wound by a golf club: precise forensic imaging. Keller T, et al. **J Forensic Sci** 1997 Jul; 42(4):733–5

Rapid screening of multiple forensic stains by SSCP analysis of HLA–DQ alpha amplification products. Kreike J, et al. **J Forensic Sci** 1997 Jul;42(4):715–7

Characterization of acetaminophen: molecular microanalysis with Raman microprobe spectroscopy. Pestaner JP, et al. **J Forensic Sci** 1996 Nov;41(6):1060–3

Gender identification of human hair using fluorescence in situ hybridization. Prahlow JA, et al. **J Forensic Sci** 1996 Nov;41(6):1035–7

Contribution of microscopic plant anatomy to postmortem bone dating. Quatrehomme G, et al. **J Forensic Sci** 1997 Jan;42(1):140–3

The applicability of formalin–fixed and formalin fixed paraffin embedded tissues in forensic DNA analysis. Romero RL, et al. **J Forensic Sci** 1997 Jul;42(4):708–14

A pentaplex automated fluorescent typing system for forensic identification and French Caucasian population data. Rousselet F, et al. **J Forensic Sci** 1997 May;42(3):500–3

Sequence analysis of domestic dog mitochondrial DNA for forensic use. Savolainen P, et al. **J Forensic Sci** 1997 Jul; 42(4):593–600

Gas residues of engine starting fluid in postmortem sample from an arsonist. Schuberth J. **J Forensic Sci** 1997 Jan; 42(1):144–7

Findings in gunshot wounds from tandem projectiles. Simmons GT. **J Forensic Sci** 1997 Jul;42(4):678–81 (5 ref.)

A survey of gunshot residue analysis methods. Singer RL, et al. **J Forensic Sci** 1996 Mar;41(2):195–8

DNA typing of azoospermic semen at the D1S80 locus. Skinker DM, et al. **J Forensic Sci** 1997 Jul;42(4):718–20

Preliminary practical findings on drug monitoring by a transcutaneous collection device. Skopp G, et al. **J Forensic Sci** 1996 Nov;41(6):933–7

Recommended technique for brain removal to retain anatomic integrity of the pineal gland in order to determine its size in sudden infant death syndrome. Sparks DL, et al. **J Forensic Sci** 1997 Jan;42(1):100–2

An improved method to recover saliva from human skin: the double swab technique. Sweet D, et al. **J Forensic Sci** 1997 Mar;42(2):320–2

Identification of urine specimen donors by the PM+DQA1 amplification and typing kit. Tsongalis GJ, et al. **J Forensic Sci** 1996 Nov;41(6):1031–4

Rapid and clear detection of ABO genotypes by simultaneous PCR–RFLP method. Tun Z, et al. **J Forensic Sci** 1996 Nov;41(6):1027–30

The analysis of lysergide (LSD): the development of novel enzyme immunoassay and immunoaffinity extraction procedures together with an HPLC–MS confirmation procedure. Webb KS, et al. **J Forensic Sci** 1996 Nov; 41(6):938–46

Interpreting DNA mixtures. Weir BS, et al. **J Forensic Sci** 1997 Mar;42(2):213–22 (11 ref.)

Summary of validation studies from twenty–six forensic laboratories in the United States and Canada on the use of the AmpliType PM PCR amplification and typing kit. Word CJ, et al. **J Forensic Sci** 1997 Jan;42(1):39–48

Identification of a killer by a definitive sneaker pattern and his beating instruments by their distinctive patterns. Zugibe FT, et al. **J Forensic Sci** 1996 Mar;41(2):310–3

Use of Foley catheter to examine estrogenized hymens for evidence of sexual abuse. Persaud DI, et al. **J Pediatr Adolesc Gynecol** 1997 May;10(2):83–5

Forensic nursing implications and the forensic autopsy. Hoyt CA, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Oct; 34(10):24–31

The impact of child sexual abuse on the children of survivors. Implications for forensic nursing. Palmer L. **J Psychosoc Nurs Ment Health Serv** 1996 Oct;34(10):42–6 (19 ref.)

Forensic RNs as photographers. Documentation in the ED. Pasqualone GA. **J Psychosoc Nurs Ment Health Serv** 1996 Oct;34(10):47–51

Habitual, toxic, and lethal concentrations of 103 drugs of abuse in humans. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997;35(1):1–9 (20 ref.)

A microanalytical electrophoresis technique for the determination of polymorphic blood proteins for medical and forensic applications. Grunbaum BW. **Mikrochim Acta** 1977;(3–4 Pt 2):339–52

Detection of HIV, hepatitis B and hepatitis C markers in discarded syringes and bloodstains. Cattaneo C, et al. **Sci Justice** 1996 Oct–Dec;36(4):271–4

Methodologic considerations in the interpretation of postmortem carboxyhemoglobin concentrations. Levine B, et al. **Toxicology** 1996 Dec 31;115(1–3):129–34

Diagnostic and forensic toxicology. Galey FD. **Vet Clin North Am Equine Pract** 1995 Dec;11(3):443–54 (8 ref.)

[Age determination by measurement of the ratio of D– and L– forms of aspartic acid. II. Chiral separation of amino acids from human dentin] Pilin A, et al. **Soud Lek** 1997 Feb;42(1):12–6 (Eng. Abstr.) **(Cze)**

[Present possibilities of age determination in forensic medicine with emphasis on the importance of measurement of D– and L– forms of aspartic acid. I. An overview] Pilin A, et al. **Soud Lek** 1997 Feb;42(1):9–11 (Eng. Abstr.) **(Cze)**

[Medical procedures in gunshot injuries] Sigrist T. **Ther Umsch** 1997 May;54(5):232–7 (Eng. Abstr.) **(Ger)**

[Dependence producing substances in the practice of the Insitute of Forensic Experts in Krakow] Kała M. **Przegl Lek** 1997;54(6):430–7 (28 ref.) (Eng. Abstr.) **(Pol)**

[Selected medico–legal problems in cases of poisoning with substances of abuse] Klys M, et al. **Przegl Lek** 1997; 54(6):404–9 (Eng. Abstr.) **(Pol)**

[The choice of the study method in forensic medical osteological identification] Abramov SS. **Sud Med Ekspert** 1996 Oct–Dec;39(4):13–20 (Eng. Abstr.) **(Rus)**

[The detection of furacillin and no–shpa in the forensic chemical study of cadaveric material] Iaremenko EF, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):44–5 (Eng. Abstr.) **(Rus)**

[Biological age: the forensic medical aspects] Nekliudov IuA. **Sud Med Ekspert** 1997 Apr–Jun;40(2):10–3 (Eng. Abstr.) **(Rus)**

[The determination of toxic compounds with a dinitrophenol structure in the forensic chemical study of cadaveric material] Shormanov VK, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):40–4 (Eng. Abstr.) **(Rus)**

ORGANIZATION & ADMINISTRATION

Medical examiners, forensic pathologists, and coroners [letter; comment] DiMaio VJ. **JAMA** 1997 Feb 19; 277(7):531–2. Comment on: JAMA 1996 Dec 4;276(21):1775–8.

The role of forensic medical services of Azerbaijan Republic in cases of natural calamities, terrorist actions and other urgent situations—organizational principles of joint activities of forensic medical services and the law–enforcement agencies. Youssifli RM, et al. **Med Law** 1996;15(2):337–40

[Experience in organizing the work of forensic medical experts with mass human victims after an earthquake (Neftegorsk, May–June 1995)] Chernyshov AP, et al. **Sud Med Ekspert** 1996 Jul–Sep;39(3):48–50 (Eng. Abstr.) **(Rus)**

[The coordination of the forensic medical service with the obligatory medical insurance funds] Grinenko AIa, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):42–3 **(Rus)**

[Experience in the organization of joint research work with research institutes and practical departments] Zaslavskiĭ GI, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):43–5 **(Rus)**

STANDARDS

Medicolegal death investigator preemployment test

development. Jentzen JM, et al.
Am J Forensic Med Pathol 1996 Jun;17(2):112–6
Comment on "the past and present legal weight of bite marks as evidence" [letter; comment] Norrlander AL.
Am J Forensic Med Pathol 1996 Dec;17(4):352–4. Comment on: Am J Forensic Med Pathol 1996 Jun;17(2):136–40.
Diagnosis of alveolar pneumonia used as an example for quality control in legal medicine—macroscopy versus microscopy. Schnabel A, et al. **Forensic Sci Int** 1997 Aug 22;88(3):225–9
Stimulation of postmortem platelets with adenosine-5-diphosphate and epinephrine. Thomsen H, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):47–55
The Centers for Disease Control and Prevention's Medical Examiner/Coroner Information Sharing Program (MecISP). Hanzlick R. **J Forensic Sci** 1997 May; 42(3):531–2
Summary of validation studies from twenty-six forensic laboratories in the United States and Canada on the use of the AmpliType PM PCR amplification and typing kit. Word CJ, et al. **J Forensic Sci** 1997 Jan;42(1):39–48
The limitations of intimate samples in sexual offences. Keating SM. **Med Law** 1995;14(5–6):387–95
The evaluation of forensic DNA evidence. Excerpt from the Executive Summary of the National Research Council Report [see comments] **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5498–500. Comment in: Proc Natl Acad Sci U S A 1997 May 27;94(11):5497.
Ethics and the police surgeon: compromise or conflict? Kelly K, et al. **Soc Sci Med** 1996 Jun;42(11):1569–75 (44 ref.)

STATISTICS & NUMERICAL DATA

The lay death investigator: in search of a common ground. Haglund WD, et al. **Am J Forensic Med Pathol** 1997 Mar; 18(1):21–5
A statistical approach to the prediction of verifiable heroin use from total codeine and total morphine concentrations in urine. Fuller DC. **J Forensic Sci** 1997 Jul;42(4):685–9

TRENDS

Forensic pathology in northern Norway. Requested medico-legal autopsies in the counties of Finnmark and Troms 1973–1992. Nordrum I, et al. **APMIS** 1996 Jun; 104(6):465–74
The impact of homicide trials on the forensic pathologist's time—the Fulton County experience. Hanzlick R. **J Forensic Sci** 1997 May;42(3):533–4
Advances in forensic nursing: new dimensions for the 21st century [editorial] Lynch VA.
J Psychosoc Nurs Ment Health Serv 1996 Oct;34(10):6–7
DNA typing in forensic medicine and in criminal investigations: a current survey. Benecke M.
Naturwissenschaften 1997 May;84(5):181–8 (100 ref.)
Great Lakes forensic toxicology and the implications for research and regulatory programs. Gilbertson M.
Toxicol Ind Health 1996 May–Aug;12(3–4):563–71 (28 ref.)
[The status and goals of research in forensic chemistry in the Russian Federation] Salomatin EM, et al.
Sud Med Ekspert 1997 Apr–Jun;40(2):13–5 **(Rus)**
[The forensic medical service of the Russian Federation (its status, problems and developmental outlook)] Tomilin VV.
Sud Med Ekspert 1997 Apr–Jun;40(2):3–6 **(Rus)**
[The status of research in forensic medicine and the introduction of the results of research work into expert practice] Tomilin VV, et al. **Sud Med Ekspert** 1997 Apr–Jun;40(2):8–10 **(Rus)**

FORENSIC PSYCHIATRY

Attachment representations of personality-disordered criminal offenders. van IJzendoorn MH, et al.
Am J Orthopsychiatry 1997 Jul;67(3):449–59
Characteristics of long-term psychiatric patients hospitalized in Tokyo, Japan. Anders RL, et al.
Arch Psychiatr Nurs 1997 Jun;11(3):139–46
WWW forensic psychiatry on-line [letter] Boettcher B.
Aust N Z J Psychiatry 1997 Jun;31(3):434
Sentencing mentally disordered offenders [editorial; comment] [see comments] Chiswick D. **BMJ** 1996 Dec 14;313(7071):1497–8. Comment on: BMJ 1996 Dec 14;313(7071):1521–4. Comment on: BMJ 1996 Dec 14;313(7071):1524–7. Comment on: BMJ 1996 Dec 14;313(7071):1529–30. Comment in: BMJ 1997 Apr 5;314(7086):1047.
The police and Criminal Evidence Act (PACE) and confessions. Gudjonsson GH. **Br J Hosp Med** 1997 May 7–20;57(9):445–7
The role of serotonin in the future of forensic psychiatry [see comments] Bradford JM.
Bull Am Acad Psychiatry Law 1996;24(1):57–72 (87 ref.). Comment in: Bull Am Acad Psychiatry Law 1996;24(3):419–22.
Threats against clinicians: a preliminary descriptive classification. Brown GP, et al.
Bull Am Acad Psychiatry Law 1996;24(3):367–76
Issues in forensic psychiatry in Islamic jurisprudence. Chaleby KS. **Bull Am Acad Psychiatry Law** 1996; 24(1):117–24 (21 ref.)
Genetics, antisocial personality, and criminal responsibility. Dinwiddie SH. **Bull Am Acad Psychiatry Law** 1996; 24(1):95–108 (76 ref.)
Factitious sexual harassment. Feldman-Schorrig S.
Bull Am Acad Psychiatry Law 1996;24(3):387–92
The relationship of attention deficit hyperactivity disorder and conduct disorder to juvenile delinquency: legal implications. Foley HA, et al.
Bull Am Acad Psychiatry Law 1996;24(3):333–45 (44 ref.)
Trading forensic and family commitments. Kearney AJ, et al. **Bull Am Acad Psychiatry Law** 1996;24(4):533–46
Memory distortion and false memory creation. Loftus EF.
Bull Am Acad Psychiatry Law 1996;24(3):281–95 (45 ref.)
Forensic significance of the limbic psychotic trigger reaction. Pontius AA. **Bull Am Acad Psychiatry Law** 1996; 24(1):125–34
From "bugging-out" to "chilling-out": manipulating emotion and evoking reason in a forensic psychiatric hospital. Gaffin D. **Cult Med Psychiatry** 1996 Jun;20(2):199–228
Duties of a psychiatric-neurological consultation/liaison service in a prison setting. Kallert TW. **Forensic Sci Int** 1996 Aug 15;81(2–3):103–16
The Swedish forensic concept of severe mental disorder as related to personality disorders. An analysis of forensic psychiatric investigations of 1498 male offenders. Kullgren G, et al. **Int J Law Psychiatry** 1996 Spring;19(2):191–200
Toward the development of guidelines for the conduct of forensic psychiatric examinations. Simon RI, et al.
J Am Acad Psychiatry Law 1997;25(1):17–30 (37 ref.)
Employee sabotage in the workplace: a biopsychosocial model. Klein RL, et al. **J Forensic Sci** 1996 Jan;41(1):52–5
Forensic issues in the neuropsychiatric evaluation of the patient with mild traumatic brain injury. Silver JM, et al.
J Neuropsychiatry Clin Neurosci 1997 Winter;9(1):102–13 (120 ref.)
Forensic nursing in Pakistan. Bridging the gap between victimized women and health care delivery systems. Carbonu DM, et al.
J Psychosoc Nurs Ment Health Serv 1997 Jun;35(6):19–27 (41 ref.)
The distinction of malingering and mental illness in black forensic cases. Bunnting BG, et al. **Med Law** 1996; 15(2):241–7
Forensic implications of the difficulties of defining delusions. Levy A. **Med Law** 1996;15(2):257–60
Arson and epilepsy. Brook R, et al. **Med Sci Law** 1996 Jul; 36(3):268–71
A survey of male homicide cases resident in an English special hospital. Dolan M, et al. **Med Sci Law** 1996 Jul; 36(3):249–58
Sleep and sexual offending. Fenwick P. **Med Sci Law** 1996 Apr;36(2):122–34
Child witnesses. Goddard A. **Med Sci Law** 1996 Oct; 36(4):277–82
The outcome of psychiatric recommendations to courts. Hosty G, et al. **Med Sci Law** 1996 Apr;36(2):163–6
Self-mutilation with needles. Peschel O, et al.
Med Sci Law 1997 Apr;37(2):175–8
Shoplifting and robbery in a fugue state. Tang CP, et al. **Med Sci Law** 1996 Jul;36(3):265–8
Challenges for women in forensic psychiatry. Ednie KJ.
New Dir Ment Health Serv 1996 Spring;(69):43–8
[Classification of voluntary homicides and psychiatry] Bénézech M. **Ann Med Psychol (Paris)** 1996 Jun; 154(3):161–73 (45 ref.) (Eng. Abstr.) **(Fre)**
[Integrative concepts in modern forensic psychiatry] Dittmann V. **Ther Umsch** 1996 Mar;53(3):327–46 (Eng. Abstr.) **(Ger)**
[Thoughts on forensic psychiatry after visits to two neighbouring countries] Noreik K, et al.
Tidsskr Nor Laegeforen 1997 Feb 10;117(4):549–50 **(Nor)**
[The concept of social network as an example of modern diagnostic processes in forensic psychiatry] Gierowski JK, et al. **Psychiatr Pol** 1995 Nov–Dec;29(6):731–42 (12 ref.) (Eng. Abstr.) **(Pol)**
[Forensic psychiatric expertise in brain tumors] Lukacher Gla, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(5):43–6 (Eng. Abstr.) **(Rus)**
[Treatment of violent criminals—decades of neglect (letter)] Levander S. **Lakartidningen** 1996 Sep 18;93(38):3220 **(Swe)**
["Phineas Gage is put in prison in Sweden". Criminals with brain damage should be treated in forensic psychiatric institutions] Lidberg L, et al. **Lakartidningen** 1996 Sep 18; 93(38):3251 **(Swe)**
[Deficient concordance worries forensic psychiatry. Increased cooperation between psychiatrists and clinics is needed] Nilsson A, et al. **Lakartidningen** 1997 Apr 9; 94(15):1398–402, 1404 **(Swe)**
[Varying assessment of "danger to life" in forensic reports] Rammer J, et al. **Lakartidningen** 1996 Nov 6;93(45):4009–11 **(Swe)**
[46 forensic psychiatric problems in cases of sexual abuse. Sex crime hysteria or public health problem?] Schlaug R. **Lakartidningen** 1997 Mar 26;94(13):1211–2 **(Swe)**
[Continuing compulsory care without medical reasons. Application of forensic psychiatry against the international ethics codex] Villius A, et al. **Lakartidningen** 1996 Nov 13;93(46):4165–6 **(Swe)**

EDUCATION

Training psychologists to function as competent scientists in criminal forensics. Everett ML.
New Dir Ment Health Serv 1996 Spring;(69):49–57
Training and education in forensic psychiatry. Heisel D.
New Dir Ment Health Serv 1996 Spring;(69):73–9

HISTORY

The criminal lunatic asylum system before and after Broadmoor. Blom-Cooper L. **Clio Med** 1995;34:151–62
[A century after the Vacher affair: comments on the forensic psychiatry experts] Biéder J. **Ann Med Psychol (Paris)** 1995 Nov;153(9):600–4 **(Fre)**
["The drama of Brenles". Foundations of forensic psychiatry in French-speaking Switzerland] Barras V, et al.
Rev Med Suisse Romande 1996 Nov;116(11):901–7 **(Fre)**

INSTRUMENTATION

The MacArthur adjudicative competence study: development and validation of a research instrument. Hoge SK, et al. **Law Hum Behav** 1997 Apr;21(2):141–79

LEGISLATION & JURISPRUDENCE

Courts and torts: the psychiatrist preparing for trial. Hoffman BF. **Can J Psychiatry** 1997 Jun;42(5):497–501 (11 ref.)
The spectre of criminalization: remand admissions to the Forensic Psychiatric Institute, British Columbia, 1975–1990. Brinded PM, et al. **Med Sci Law** 1996 Jan; 36(1):59–64
Liability for injuries caused by violent patients. Miers D. **Med Sci Law** 1996 Jan;36(1):15–24
[The forensic-psychiatric evaluation of young persons in accordance with 105 JGG between punishment and therapeutic help] Weber MM, et al.
Fortschr Neurol Psychiatr 1997 Jun;65(6):247–55 (Eng. Abstr.) **(Ger)**
[Compulsory psychiatric drug therapy in Switzerland—legislation and reality exemplified by a few clinical cases] Caduff F. **Schweiz Med Wochenschr** 1997 Apr 5;127(14):585–96 (44 ref.) (Eng. Abstr.) **(Ger)**
[Legal approaches to the forensic psychiatric expertise of persons who have committed socially dangerous actions in a state of intoxication with alcohol and other psychoactive substances] Igonin AL, et al.
Sud Med Ekspert 1997 Jul–Sep;40(3):35–8 **(Rus)**

METHODS

Clinical evaluations for transfer of juveniles to criminal court: current practices and future research. Kruh IP, et al.
Behav Sci Law 1997 Spring;15(2):151–65 (93 ref.)
Pilot study of the adjunct utility of a computer-assisted Diagnostic Interview Schedule (C-DIS) in forensic psychiatric patients. Ahlberg J, et al.
Bull Am Acad Psychiatry Law 1996;24(1):109–16
Detection of misreported drug use in forensic populations: an overview of hair analysis. Kelly KS, et al.
Bull Am Acad Psychiatry Law 1996;24(1):85–94 (45 ref.)
Predictors of recidivistic violence in criminally insane and civilly committed psychiatric inpatients. Sreenivasan S, et al. **Int J Law Psychiatry** 1997 Spring;20(2):279–91
Family background of drug-related deaths: a descriptive study based on interviews with relatives of deceased drug users. Risser D, et al. **J Forensic Sci** 1996 Nov;41(6):960–2
The sexually sadistic serial killer. Warren JI, et al.
J Forensic Sci 1996 Nov;41(6):970–4
[A systems approach to the study of the problem of suicide and the prospects for its use in forensic medicine] Viter VI, et al. **Sud Med Ekspert** 1997 Jul–Sep;40(3):39–40 (Eng. Abstr.) **(Rus)**
[The development of expert systems for forensic psychiatric evaluation] Kondrat'ev FV, et al.
Zh Nevropatol Psikhiatr Im S S Korsakova 1996;96(2):65–7 (Eng. Abstr.) **(Rus)**

ORGANIZATION & ADMINISTRATION

Assessment of the perceived need for a psychiatric service to a magistrates' court. Evans J, et al. **Med Sci Law** 1997 Apr;37(2):161–4
[Cooperation between the different units of forensic psychiatry is missing (letter)] Fransson G.
Lakartidningen 1996 Oct 23;93(43):3769 **(Swe)**

STANDARDS

Ethics in evolution: the incompatibility of clinical and forensic functions [editorial] Appelbaum PS.
Am J Psychiatry 1997 Apr;154(4):445–6
On wearing two hats: role conflict in serving as both psychotherapist and expert witness. Strasburger LH, et al.
Am J Psychiatry 1997 Apr;154(4):448–56
Judges' assumptions about the appropriateness of civil and forensic commitment. Appelbaum KL, et al.
Psychiatr Serv 1997 May;48(5):710–2

TRENDS

The quest for excellence in forensic psychiatry. Dietz PE.
Bull Am Acad Psychiatry Law 1996;24(2):153–63
Forensic psychiatry in Israel and Britain: some developing links. Gordon H. **Isr J Psychiatry Relat Sci** 1996; 33(3):194–5

FORESTIER-CERTONCINY SYNDROME see **POLYMYALGIA RHEUMATICA**

FORESTIER DISEASE see **HYPEROSTOSIS, DIFFUSE**

FORESTIER DISEASE

IDIOPATHIC SKELETAL

FORESTRY

see related
TREES

Commercial logging fatalities in Ontario, 1986–1991. West R, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):299–304

The vibrotactile threshold (VT) at the fingertips of chain saw operators. Ahrend KD, et al. **Cent Eur J Public Health** 1995;3 Suppl:85–7

Bone mineralization changes in saw operators. Fialová J, et al. **Cent Eur J Public Health** 1995;3 Suppl:120–2

Hand–arm vibration in tropical rain forestry workers. Futatsuka M, et al. **Cent Eur J Public Health** 1995;3 Suppl:90–2

Environmental specimen banking of nationwide biomonitoring samples in Finland. Kubin E, et al. **Chemosphere** 1997 May;34(9–10):1939–44 (10 ref.)

Seroprevalence of Lyme borreliosis in forestry workers from Brandenburg, Germany. Rath PM, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):372–7

Influence of local vibration on finger functions of forest workers. Tanaka M, et al. **Ind Health** 1997 Jul;35(3):337–42

Limit theorems and a general framework for risk analysis in clonal forestry. Bishir J, et al. **Math Biosci** 1997 May; 142(1):1–11

Validity of self–reported physical work load in epidemiologic studies on musculoskeletal disorders. Viikari–Juntura E, et al. **Scand J Work Environ Health** 1996 Aug;22(4):251–9

[An unusual penetrating wound of the abdomen by a tree trunk] Tufanov SA. **Vestn Khir Im I I Grek** 1996;155(2):57 **(Rus)**

[The results of the medical examination of forestry industry workers in an area under intensified radioecological control] Bebeshko VH, et al. **Lik Sprava** 1996 Oct–Dec; (10–12):48–50 (Eng. Abstr.) **(Ukr)**

LEGISLATION & JURISPRUDENCE

Rules and regulations of the Government of Vietnam on collection and exportation of biological materials. Mai TV, et al. **J Ethnopharmacol** 1996 Apr;51(1–3):173–6 (2 ref.)

[Management policy and utilization of botanical resources in the Dominican Republic] Garcia R, et al. **J Ethnopharmacol** 1996 Apr;51(1–3):147–60 (Eng. Abstr.) **(Spa)**

[Forestry Law and the conservation of natural areas and wildlife] Villacrés V, et al. **J Ethnopharmacol** 1996 Apr; 51(1–3):167–72 (9 ref.) (Eng. Abstr.) **(Spa)**

FORESTS see **TREES**

FORHISTAL see **DIMETHINDENE**

FORM PERCEPTION

Visual object recognition. Legothetis NK, et al. **Annu Rev Neurosci** 1996;19:577–621 (228 ref.)

Morphology of the recovery from form deprivation myopia in the chick. Liang H, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):41–4

Deprivation of form vision suppresses diurnal cycling of retinal levels of leu–enkephalin. McKenzie C, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S79–81

The effect of form deprivation on retinal leu–enkephalin levels is mediated by a rod–driven pathway. Megaw P, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):58–60

Selective processing of superimposed objects: an electrophysiological analysis of object–based attentional selection. Weber TA, et al. **Biol Psychol** 1997 Mar 21; 45(1–3):159–82

Spatial nonuniformities in visual search. Efron R, et al. **Brain Cogn** 1996 Aug;31(3):331–68

Effect of absolute and relative gap sizes in visual search for closure. Mori S. **Can J Exp Psychol** 1997 Jun;51(2):112–25

Translating between orthogonally oriented stimulus and response arrays in four–choice reaction tasks. Proctor RW, et al. **Can J Exp Psychol** 1997 Jun;51(2):85–98

Patterns of eye movements during parallel and serial visual search tasks. Williams DE, et al. **Can J Exp Psychol** 1997 Jun;51(2):151–64

Spatiotemporal integration and object perception in infancy: perceiving unity versus form. Van de Walle GA, et al. **Child Dev** 1996 Dec;67(6):2621–40

The development of a dummy head for 3–D audiovisual recording for transmitting telepresence. Noro K, et al. **Ergonomics** 1996 Nov;39(11):1381–9

Are people with autism and Asperger syndrome faster than normal on the Embedded Figures Test? Jolliffe T, et al. **J Child Psychol Psychiatry** 1997 Jul;38(5):527–34

Liquid conservation in orangutans (Pongo pygmaeus) and humans (Homo sapiens): individual differences and perceptual strategies. Call J, et al. **J Comp Psychol** 1996 Sep;110(3):219–32

Information integration about object–object relationships by chimpanzees (Pan troglodytes). Tanaka M. **J Comp Psychol** 1996 Dec;110(4):323–35

Capacity limitations of a classic M–power measure: a modified dual–task approach. Foley EJ, et al. **J Exp Child Psychol** 1997 Aug;66(2):129–43

A use of self–instruction to extend the generalization of a self–instructed in–common discrimination. Grote I, et al. **J Exp Child Psychol** 1997 Aug;66(2):144–62

Display density influences visual search for conjunctions of movement and orientation. Berger RC, et al. **J Exp Psychol Hum Percept Perform** 1996 Feb;22(1):114–21

Evidence of limited capacity and noise reduction with single–element displays in the location–cuing paradigm. Cheal ML, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):51–71

Perceptual similarity of shapes generated from Fourier descriptors. Cortese JM, et al. **J Exp Psychol Hum Percept Perform** 1996 Feb;22(1):133–43

Effects of imagery on vernier acuity under conditions of induced depth. Craver–Lemley C, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):3–13

If it's not there, where is it? Locating illusory conjunctions. Hazeltine RE, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):263–77

Selection by color and form in vision. Humphreys GW, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb; 23(1):136–53

Visual search as a function of type of prior experience with target and distractor. Lubow RE, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):14–24

Temporal and spatial repetition blindness: effects of presentation mode and repetition lag on the perception of repeated items. Luo CR, et al. **J Exp Psychol Hum Percept Perform** 1996 Feb;22(1):95–113

Parallel processing in visual short–term memory. Magnussen S, et al. **J Exp Psychol Hum Percept Perform** 1996 Feb; 22(1):202–12

Visual search for conjunctions of motion and form: display density and asymmetry reversal. Müller HJ, et al. **J Exp Psychol Hum Percept Perform** 1996 Feb;22(1):122–32

Role of coarse and fine spatial information in face and object processing. Parker DM, et al. **J Exp Psychol Hum Percept Perform** 1996 Dec; 22(6):1448–66

Discrimination of the direction and speed of motion in depth of a monocularly visible target from binocular information alone. Portfors–Yeomans CV, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb;23(1):227–43

Shape completion time depends on the size of the occluded region. Shore DI, et al. **J Exp Psychol Hum Percept Perform** 1997 Aug; 23(4):980–98

Disappearance of unilateral spatial neglect following a simple instruction. Ishiai S, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):23–7

The complex interaction of normal biases in line bisection. Kashmere JL, et al. **Neurology** 1997 Sep;49(3):887–9

Backward masking of words and faces: evidence for different processing speeds in the hemispheres? Heider B, et al. **Neuropsychologia** 1997 Aug;35(8):1113–20

Ebbinghaus illusion: effect of figural similarity upon magnitude of illusion when context elements are equal in perceived size. Deni JR, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1171–5

The "jump" and "release" effects: some observations on the perception of causality. Gyulai E. **Percept Mot Skills** 1997 Apr;84(2):547–54

Adults and children with high imagery show more pronounced perceptual priming effect. Hatakeyama T. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1315–29

Perception of faces with and without spectacles. McKelvie SJ. **Percept Mot Skills** 1997 Apr;84(2):497–8

Consistency in the expression of aesthetic preference in line partitioning. Macrosson WD, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1151–4

Scores on the Group Embedded Figures Test by undergraduates in information management. Murphy HJ, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1135–8

Background instrumental music and serial recall. Nittono H. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1307–13

Mean differences among subcomponents of Vandenberg's Mental Rotation Test. Qubeck WJ 4th. **Percept Mot Skills** 1997 Aug;85(1):323–32

Effects of duration of stimulus and variability of foreperiod on the identification of multidimensional stimuli. Shieh KK, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1379–93

Symbolism of basic geometrical shapes. Valenti NL, et al. **Percept Mot Skills** 1997 Aug;85(1):321–2

Surface gradients, contours and the perception of surface attitude in images of complex scenes. Christou C, et al. **Perception** 1996;25(6):701–13

Evidence for good recovery of lengths of real objects seen with natural stereo viewing. Frisby JP, et al. **Perception** 1996;25(2):129–54

Occlusion constraints and stereoscopic slant. Häkkinen J, et al. **Perception** 1997;26(1):29–38

Shape constancy in pictorial relief. Koenderink JJ, et al. **Perception** 1996;25(2):155–64

Foreshortening in cube drawings by children and adults. Nicholls AL, et al. **Perception** 1995;24(12):1443–56

The discriminability of local surface structure. Norman JF, et al. **Perception** 1996;25(4):381–98

Sex classification is better with three–dimensional head structure than with image intensity information. O'Toole AJ, et al. **Perception** 1997;26(1):75–84

Comments on Parks's "Prior experience of form and illusory figures: new demonstrations" [comment] Wenderoth P. **Perception** 1997;26(1):97–100. Comment on: Perception 1996;25(3):353–4.

The effects of the contrast polarity of dot–pair partners on the detection of bilateral symmetry. Wenderoth P. **Perception** 1996;25(7):757–71

Faithful representation of similarities among three–dimensional shapes in human vision. Cutzu F, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):12046–50

The perception of transparent three–dimensional objects. Purves D, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6517–22

Preattentive filling–in of visual surfaces in parietal extinction. Mattingley JB, et al. **Science** 1997 Jan 31;275(5300):671–4

Orientation maps of subjective contours in visual cortex. Sheth BR, et al. **Science** 1996 Dec 20;274(5295):2110–5

Two–dimensional aspect ratio discrimination for shape defined by orientation texture. Regan D, et al. **Vision Res** 1996 Nov;36(22):3695–702

[Categorization in infancy: differentiation of global object classes] Pauen S. **Z Exp Psychol** 1996;43(4):600–24 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

Lorazepam impairs perceptual integration of visual forms: a central effect. Giersch A, et al. **Psychopharmacology (Berl)** 1996 Aug;126(3):260–70

PHYSIOLOGY

Gestalten of today: early processing of visual contours and surfaces. Kovács I. **Behav Brain Res** 1996 Dec;82(1):1–11 (93 ref.)

Object discrimination learning and object–pattern discrimination transfer in visually deprived cats. Zernicki B, et al. **Behav Brain Res** 1996 Dec;82(1):79–83

What's in a pause: event–related potential analysis of temporal disruptions in written and spoken sentences. Besson M, et al. **Biol Psychol** 1997 Jun 20;46(1):3–23

Uninformative symbolic cues may bias visual–spatial attention: behavioral and electrophysiological evidence. Eimer M. **Biol Psychol** 1997 Jun 20;46(1):67–71

An event–related potential (ERP) study of transient and sustained visual attention to color and form. Eimer M. **Biol Psychol** 1997 Jan 31;44(3):143–60

Shifting attention between global features and small details: an event–related potential study. Kotchoubey B, et al. **Biol Psychol** 1997 Jun 20;46(1):25–50

An electrophysiological study of the selection of the color and shape of alphanumeric characters in response choice. Smid HG, et al. **Biol Psychol** 1997 Jan 31;44(3):161–85

Bisection performance indicates spatial word representation. Fischer MH. **Brain Res Cogn Brain Res** 1996 Oct; 4(3):163–70

Functional MR imaging of semantic information processing and learning–related effects using psychometrically controlled stimulation paradigms. Spitzer M, et al. **Brain Res Cogn Brain Res** 1996 Oct;4(3):149–61

Neural mechanisms for heading and structure–from–motion perception. Andersen RA, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:15–25 (61 ref.)

Bisection and perception of horizontal lines in normal children. Dellatolas G, et al. **Cortex** 1996 Dec;32(4):705–15

A dissociation between the ability to print and write cursively in lower–case letters. Hanley JR, et al. **Cortex** 1996 Dec; 32(4):737–45

Written numeral transcoding in patients with Alzheimer's disease. Kessler J, et al. **Cortex** 1996 Dec;32(4):755–61

Abrupt learning and retinal size specificity in illusory–contour perception. Rubin N, et al. **Curr Biol** 1997 Jul 1;7(7):461–7

Effect of repetition and inspection times on picture recall in patients with dementia of Alzheimer type. Heun R, et al. **Dement Geriatr Cogn Disord** 1997 May–Jun;8(3):152–6

Neuronal generators of visual evoked potentials in humans: visual processing in the human cortex. Arroyo S, et al. **Epilepsia** 1997 May;38(5):600–10

Gamma–band responses in the brain: a short review of psychophysiological correlates and functional significance. Başar–Eroglu C, et al. **Int J Psychophysiol** 1996 Nov; 24(1–2):101–12 (69 ref.)

Letter and category fluency in community–dwelling Canadian seniors: a comparison of normal participants to those with dementia of the Alzheimer or vascular type. Crossley M, et al. **J Clin Exp Neuropsychol** 1997 Feb; 19(1):52–62

Picture naming deficits in vascular dementia and Alzheimer's disease. Laine M, et al. **J Clin Exp Neuropsychol** 1997 Feb; 19(1):126–40

Performance of healthy subjects and patients with resection from the anterior temporal lobe on matched tests of verbal and visuoperceptual learning. Majdan A, et al. **J Clin Exp Neuropsychol** 1996 Jun;18(3):416–30

The role of component function in visual recognition of Chinese characters. Feldman LB, et al. **J Exp Psychol Learn Mem Cogn** 1997 May;23(3):776–81

Effect of relevance shifts in category acquisition: a test of neural networks. Macho S. **J Exp Psychol Learn Mem Cogn** 1997 Jan;23(1):30–53

Visual hallucinosis: the major clinical determinant of distorted chromatic contour perception in Parkinson's disease. Büttner T, et al. **J Neural Transm** 1996; 103(10):1195–204

Form processing modules in primate area V4. Ghose GM, et al. **J Neurophysiol** 1997 Apr;77(4):2191–6

Neural encoding of shape: responses of cutaneous mechanoreceptors to a wavy surface stroked across the monkey fingerpad. LaMotte RH, et al. **J Neurophysiol** 1996 Dec;76(6):3787–97

Invariant visual responses from attentional gain fields. Salinas E, et al. **J Neurophysiol** 1997 Jun;77(6):3267–72

Object and place memory in the macaque entorhinal cortex. Suzuki WA, et al. **J Neurophysiol** 1997 Aug;78(2):1062–81

Classifying illusory contours: edges defined by "pacman" and monocular tokens. Westheimer G, et al. **J Neurophysiol** 1997 Feb;77(2):731–6

Loss of sensitivity to motion–defined form in patients with primary open–angle glaucoma and ocular hypertension. Giaschi DE, et al. **J Opt Soc Am A** 1996 Apr;13(4):707–15

Effect on vision of binocular foveal contour interactions [letter] Plant GT, et al. **Lancet** 1997 May 3; 349(9061):1296–7

Similarity, connectionism, and the problem of representation in vision. Edelman S, et al. **Neural Comput** 1997 May 15; 9(4):701–20 (48 ref.)

SEEMORE: combining color, shape, and texture histogramming in a neurally inspired approach to visual object recognition. Mel BW. **Neural Comput** 1997 May 15; 9(4):777–804

A simple common contexts explanation for the development of abstract letter identities. Polk TA, et al. **Neural Comput** 1997 Aug 15;9(6):1277–89

Stochastic completion fields; a neural model of illusory contour shape and salience. Williams LR, et al. **Neural Comput** 1997 May 15;9(4):837–58

Neural network for dynamic binding with graph representation: form, linking, and depth–from–occlusion. Williamson JR. **Neural Comput** 1996 Aug 15;8(6):1203–25

Visuomotor sensitivity for shape and orientation in a patient with visual form agnosia. Carey DP, et al. **Neuropsychologia** 1996 May;34(5):329–37

Hemispheric specialization for local and global processing of hierarchical visual stimuli in chimpanzees (Pan troglodytes). Hopkins WD. **Neuropsychologia** 1997 Mar; 35(3):343–8

Agnosia for object orientation: implications for theories of object recognition. Turnbull OH, et al. **Neuropsychologia** 1997 Feb;35(2):153–63

A double dissociation between knowledge of object identity and object orientation. Turnbull OH. **Neuropsychologia** 1997 Apr;35(4):567–70

Spatial locations gone awry: object and spatial memory deficits in children with fetal alcohol syndrome. Uecker A, et al. **Neuropsychologia** 1996 Mar;34(3):209–23

Functional MR imaging of the human sensorimotor cortex during haptic discrimination. Anton JL, et al. **Neuroreport** 1996 Nov 25;7(18):2849–52

How perceived object dimension influences prehension. Castiello U, et al. **Neuroreport** 1996 Feb 29;7(3):825–9

Visual working memory for shape and 3D–orientation: a PET study. Faillenot I, et al. **Neuroreport** 1997 Mar 3;8(4):859–62

Face and shape repetition effects in humans: a spatio–temporal ERP study. George N, et al. **Neuroreport** 1997 Apr 14;8(6):1417–23

Neural effects of visualizing and perceiving aversive stimuli: a PET investigation. Kosslyn SM, et al. **Neuroreport** 1996 Jul 8;7(10):1569–76

Grasping without form discrimination in a hemianopic field. Perenin MT, et al. **Neuroreport** 1996 Feb 29;7(3):793–7

Face–specific responses from the human inferior occipito–temporal cortex. Sams M, et al. **Neuroscience** 1997 Mar;77(1):49–55

The effect of defocus on edge contrast sensitivity. Jansonius NM, et al. **Ophthalmic Physiol Opt** 1997 Mar;17(2):128–32

Long–term form identification vision after early, closed, lensectomy–vitrectomy for stage 5 retinopathy of prematurity. Mintz–Hittner HA, et al. **Ophthalmology** 1997 Mar;104(3):454–9

Adaptation to spatial offsets. Hess RF, et al. **Perception** 1995; 24(12):1407–26

The perception of surface folding in static and animated displays. Massironi M, et al. **Perception** 1997;26(2):153–70

The effect of attention on phenomenal length. Prinzmetal W, et al. **Perception** 1997;26(2):193–205

Spatial and temporal coherence in perceptual binding. Blake R, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):7115–9

Picture media and emotion: effects of a sustained affective context. Bradley MM, et al. **Psychophysiology** 1996 Nov; 33(6):662–70

Localization of word and face recognition memory using topographical EEG. Burgess AP, et al. **Psychophysiology** 1997 Jan;34(1):7–16

Fear and the startle reflex: blink modulation and autonomic response patterns in animal and mutilation fearful subjects. Hamm AO, et al. **Psychophysiology** 1997 Jan;34(1):97–107

Cerebral processing of words and the development of chronic pain. Knost B, et al. **Psychophysiology** 1997 Jul;34(4):474–81

Manipulating affective state using extended picture presentations. Sutton SK, et al. **Psychophysiology** 1997 Mar; 34(2):217–26

Memory for words and novel visual patterns: repetition, recognition, and encoding effects in the event–related brain potential. Van Petten C, et al. **Psychophysiology** 1996 Sep; 33(5):491–506

Integration of what and where in the primate prefrontal cortex. Rao SC, et al. **Science** 1997 May 2;276(5313):821–4

Machine learning paradigms for pattern recognition and image understanding. Caelli T, et al. **Spat Vis** 1996; 10(1):87–103 (23 ref.)

Interactions between noise and signal segments at the decision level are task contingent. Dufour A. **Spat Vis** 1996; 10(3):273–83

Visual learning in the perception of texture: simple and contingent aftereffects of texture density. Durgin FH, et al. **Spat Vis** 1996;9(4):423–74 (127 ref.)

To what extent can matching algorithms based on direct outputs of spatial filters account for human object recognition? Fiser J, et al. **Spat Vis** 1996;10(3):237–71

Categorical relations in shape perception. Hummel JE, et al. **Spat Vis** 1996;10(3):201–36

Expectancy of line segment orientation. Kurylo DD, et al. **Spat Vis** 1996;10(2):149–62

Generalization of form in visual pattern classification. Rentschler I, et al. **Spat Vis** 1996;10(1):59–85

The receptive field of the primate P retinal ganglion cell, I: Linear dynamics. Benardete EA, et al. **Vis Neurosci** 1997 Jan–Feb;14(1):169–85

Cue–dependent deficits in grating orientation discrimination after V4 lesions in macaques. De Weerd P, et al. **Vis Neurosci** 1996 May–Jun;13(3):529–38

Processing of color, form, and motion in macaque area V2. Gegenfurtner KR, et al. **Vis Neurosci** 1996 Jan–Feb; 13(1):161–72

Visual acuity and contrast sensitivity for individual Sloan letters. Alexander KR, et al. **Vision Res** 1997 Mar; 37(6):813–9

Does the human visual system implement an ideal observer theory of slant from texture? Buckley D, et al. **Vision Res** 1996 Apr;36(8):1163–76

Across–object relationships in perceived object orientation. Burbeck CA, et al. **Vision Res** 1997 Apr;37(7):879–84

Light source dependence in shape from shading. Christou CG, et al. **Vision Res** 1997 Jun;37(11):1441–9

Contour integration across polarities and spatial gaps: from local contrast filtering to global grouping. Dresp B, et al. **Vision Res** 1997 Apr;37(7):913–24

Specificity of learning curvature, orientation, and vernier discriminations. Fahle M. **Vision Res** 1997 Jul; 37(14):1885–95

Becoming a "Greeble" expert: exploring mechanisms for face recognition. Gauthier I, et al. **Vision Res** 1997 Jun; 37(12):1673–82

Additive effect of luminance and color cues in generation of neon color spreading. Goda N, et al. **Vision Res** 1997 Feb;37(3):291–305

Integrating contours within and through depth. Hess RF, et al. **Vision Res** 1997 Mar;37(6):691–6

Investigating shape–from–shading illusions using solid objects. Johnston A, et al. **Vision Res** 1996 Sep; 36(18):2827–35

The influence of temporal phase differences on texture segmentation. Leonards U, et al. **Vision Res** 1996 Sep; 36(17):2689–97

Vernier acuity with plaid masks: the role of oriented filters in vernier acuity. Mussap AJ, et al. **Vision Res** 1997 May; 37(10):1325–40

The effect of an interrupted daily period of normal visual stimulation on form deprivation myopia in chicks. Napper GA, et al. **Vision Res** 1997 Jun;37(12):1557–64

The relative efficacy of cues for two–dimensional shape perception. Nawrot M, et al. **Vision Res** 1996 Apr; 36(8):1141–52

The perception of motion and structure in structure–from–motion: comparisons of affine and Euclidean formulations. Pollick FE. **Vision Res** 1997 Feb; 37(4):447–66

Spatial and temporal properties of illusory contours and amodal boundary completion. Ringach DL, et al. **Vision Res** 1996 Oct;36(19):3037–50

Spatio–temporal boundary formation: the role of local motion signals in boundary perception. Shipley TF, et al. **Vision Res** 1997 May;37(10):1281–93

Retention of local information in generation of subjective contours. Takemoto A, et al. **Vision Res** 1997 Jun; 37(11):1429–39

[Form deprivation myopia caused by keratitis scrophulosa] Meyer C, et al. **Ophthalmologe** 1996 Aug;93(4):361–6 (Eng. Abstr.) **(Ger)**

[The functional significance of alpha activity in the visual cortex for the recognition of images and movement] Shevelev IA. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov; 82(10–11):20–33 (Eng. Abstr.) **(Rus)**

[The temporal correlations of the VEP of the visual and motor cortices during the perception and mental reproduction of an image in normal children and in those with intellectual disorders] Puchinskaia LM, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan–Feb; 47(1):49–57 (Eng. Abstr.) **(Rus)**

FORMALDEHYDE

A method for the extraction of genomic DNA from human brain tissue fixed and stored in formalin for many years. Savioz A, et al. **Acta Neuropathol (Berl)** 1997 Apr; 93(4):408–13

An experimental design approach to retrospective exposure assessment. Hornung RW, et al. **Am Ind Hyg Assoc J** 1996 Mar;57(3):251–6

Assessing the efficiency of leukoreduction of cellular blood components. Use of a simplified formalin–fixation and batch–counting method. Narvios AB, et al. **Am J Clin Pathol** 1997 Jan;107(1):111–3

Sonification as a means of enhancing the detection of gene expression levels from formalin–fixed, paraffin–embedded biopsies. Houze TA, et al. **Biotechniques** 1996 Dec; 21(6):1074–8, 1080, 1082

Scanning electron microscopy of the respiratory epithelium of chicks fumigated with formaldehyde vapour. Fauziah O, et al. **Br Poult Sci** 1996 Jul;37(3):563–70

Comparison of the effects of nucleus tractus solitarius and ventral medial medulla lesions on illness–induced and subcutaneous formalin–induced hyperalgesias. Wiertelak EP, et al. **Brain Res** 1997 Feb 14;748(1–2):143–50

Accessibility of 7–aminoactinomycin D to lymphocyte nuclei after paraformaldehyde fixation. Lindén E, et al. **Cytometry** 1997 Jan 1;27(1):92–5

Immunostaining of estrogen receptor, progesterone receptor, MIB1 antigen, and c–erbB–2 oncoprotein in cytologic specimens: a simplified method with formalin fixation. Suthipintawong C, et al. **Diagn Cytopathol** 1997 Aug; 17(2):127–33

Comparison of methods for extracting DNA from formalin–fixed paraffin sections for nonisotopic PCR. Frank TS, et al. **Diagn Mol Pathol** 1996 Sep;5(3):220–4

Method for the purification of tissue DNA suitable for PCR after fixation with Bouin's fluid. Uses and limitations in microsatellite typing. Longy M, et al. **Diagn Mol Pathol** 1997 Jun;6(3):167–73

Morphological changes in rat submandibular gland mucous cells during fixation with 10% formalin. Kakoi H, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):214–21

Comparison of formalin, ethanol, and Histochoice fixation on the PCR amplification from paraffin–embedded breast cancer tissue. Giannella C, et al. **Eur J Clin Chem Clin Biochem** 1997 Aug;35(8):633–5

Central noradrenergic and cholinergic modulation of formaldehyde–induced pedal inflammation and nociception in rats. Dumka VK, et al. **Indian J Physiol Pharmacol** 1996 Jan;40(1):41–6

A radiological–anatomical comparison between formalin–preserved organs and "plastinated" ones. Brizzi E, et al. **Ital J Anat Embryol** 1994 Jul–Sep;99(3):145–55

Determination of amoxicillin in catfish and salmon tissues by liquid chromatography with precolumn formaldehyde derivatization. Ang CYW, et al. **J AOAC Int** 1996 Mar–Apr;79(2):389–96

The proper use of glue: a 20–year experience with the GRF glue in acute aortic dissection. Bachet J, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):243–53; discussion 253–5 (30 ref.)

Immune response prevalence to formaldehyde–human serum albumin molecular adduct in a healthy population. Carraro E, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2–3):215–8

The applicability of formalin–fixed and formalin fixed paraffin embedded tissues in forensic DNA analysis. Romero RL, et al. **J Forensic Sci** 1997 Jul;42(4):708–14

Medullary catecholaminergic neurons projecting to lateral hypothalamic area and expressing Fos after chemical stimulation of the stomach in the rat. Dong YX, et al. **J Hirnforsch** 1997;38(1):3–7

Fixation affects morphometric characters of Psoroptes cuniculi mites (Acari:Psoroptidae). Reese NE, et al. **J Med Entomol** 1996 Sep;33(5):835–8

A practical device for histological fixative procedures that limits formaldehyde deleterious effects in laboratory environments. Nogueira MI, et al. **J Neurosci Methods** 1997 Mar;72(1):65–70

The shrinkage of the human brain stem during formalin fixation and embedding in paraffin. Quester R, et al. **J Neurosci Methods** 1997 Jul 18;75(1):81–9

Early nociceptive events influence the temporal profile, but not the magnitude, of the tonic response to subcutaneous formalin: effects with remifentanil. Taylor BK, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):876–83

A recommended occupational exposure limit for formaldehyde based on irritation. Paustenbach D, et al. **J Toxicol Environ Health** 1997 Feb 21;50(3):217–63 (209 ref.)

Peripheral noxious stimulation releases spinal PGE2 during the first phase in the formalin assay of the rat. Scheuren N, et al. **Life Sci** 1997;60(21):PL 295–300

Analysis of chromatin structure by in vivo formaldehyde cross–linking. Orlando V, et al. **Methods** 1997 Feb; 11(2):205–14

The formalin test in rat: validation of an automated system. Jett MF, et al. **Pain** 1996 Jan;64(1):19–25

Attenuation of formalin pain responses in the rat by adrenal medullary transplants in the spinal subarachnoid space. Siegan JB, et al. **Pain** 1997 Apr;70(2–3):279–85

Formalin fixation by boiling: is it suitable for the TUNEL staining? [letter] Ichimura E, et al. **Pathol Int** 1995 Dec; 45(12):971–2

Determination of extent of formaldehyde–induced crosslinking in hard gelatin capsules by near–infrared spectrophotometry. Gold TB, et al. **Pharm Res** 1997 Aug; 14(8):1046–50

A prospective randomized controlled study of 4% lignocaine solution in Merocel nasal pack removal. Lavy JA, et al. **Rhinology** 1996 Dec;34(4):219–21

Detection of Mycobacterium tuberculosis in formaldehyde

solution-fixed, paraffin-embedded tissue by polymerase chain reaction in Pott's disease. Berk RH, et al. **Spine** 1996 Sep 1;21(17):1991-5

Sterilisation of surgical instruments with formaldehyde gas. Lubbe AM, et al. **Vet Rec** 1997 Apr 26;140(17):450-3

Multicenter evaluation of the 3% paraformaldehyde method for white cell counting in leukocyte-reduced red blood cells. BEST (Biomedical Excellence for Safer Transfusion) Working Party of the International Society of Blood Transfusion. Prati D, et al. **Vox Sang** 1996;70(4):241-5

[DNA degradation in formalin fixed tissues] Wiegand P, et al. **Pathologe** 1996 Nov;17(6):451-4 (Eng. Abstr.) **(Ger)**

[Endomethasone without formaldehyde (letter)] Wagner M. **Schweiz Monatsschr Zahnmed** 1996;106(1):72 **(Ger)**

[Changes in opioid receptor binding nature in rat brain and spinal cord following formalin or carrageenan-induced nociception] Ohta S, et al. **Masui** 1997 May;46(5):644-9 (Eng. Abstr.) **(Jpn)**

[Clinical experience with the gelatin-resorcine-formol biological glue in acute type A aortic dissection] Moriyama Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May; 45(5):682-6 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Massive haemorrhage of inoperable bladder carcinomas: treatment by intravesical formalin solution. Giannakopoulos X, et al. **Int Urol Nephrol** 1997;29(1):33-8

Endoscopic topical placement of formalin soaked pledgets to control localized hemorrhage due to radiation cystitis. Lowe BA, et al. **J Urol** 1997 Aug;158(2):528-9

Comparison of inhaled formaldehyde dosimetry predictions with DNA-protein cross-link measurements in the rat nasal passages. Hubal EA, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):47-55

Application of formaldehyde for treatment of hemorrhagic radiation-induced proctitis. Roche B, et al. **World J Surg** 1996 Oct;20(8):1092-4; discussion 1094-5

ADVERSE EFFECTS

O6-alkylguanine DNA alkyltransferase activity in student embalmers. Hayes RB, et al. **Am J Ind Med** 1997 Mar; 31(3):361-5

Occupational laryngitis caused by formaldehyde: a case report. Roto P, et al. **Am J Ind Med** 1996 Mar;29(3):275-77 (13 ref.)

Health aspects of formaldehyde in the indoor environment. Czech and Slovak experience. Holcátová I, et al. **Cent Eur J Public Health** 1997 Mar;5(1):38-42 (46 ref.)

Is formaldehyde an important cause of allergic respiratory disease? [editorial] Smedley J. **Clin Exp Allergy** 1996 Mar; 26(3):247-9

Exposure to gaseous formaldehyde induces IgE-mediated sensitization to formaldehyde in school-children. Wantke F, et al. **Clin Exp Allergy** 1996 Mar;26(3):276-80

Threshold for occluded formaldehyde patch test in formaldehyde-sensitive patients. Relationship to repeated open application test with a product containing formaldehyde releaser. Flyvholm MA, et al. **Contact Dermatitis** 1997 Jan;36(1):26-33

Comparison of 2 tests for clinical assessment of formaldehyde exposure. Flyvholm MA, et al. **Contact Dermatitis** 1996 Jan;34(1):35-8

Reactions to formaldehyde and formaldehyde releasers in a standard series. Kränke B, et al. **Contact Dermatitis** 1996 Sep;35(3):192-3

Contact urticaria syndrome from formaldehyde with multiple physical urticarias. Torresani C, et al. **Contact Dermatitis** 1996 Sep;35(3):174-5

Role of tachykinin and bradykinin receptors and mast cells in gaseous formaldehyde-induced airway microvascular leakage in rats. Ito K, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):291-8

Allergic contact dermatitis from leather strap of wrist watch [letter] Kanerva L, et al. **Int J Dermatol** 1996 Sep; 35(9):680-1

Lung cancer mortality among workers in formaldehyde industries [editorial] Callas PW, et al. **J Occup Environ Med** 1996 Aug;38(8):747-8; discussion 749-51

An updated meta-analysis of formaldehyde exposure and upper respiratory tract cancers. Collins JJ, et al. **J Occup Environ Med** 1997 Jul;39(7):639-51

Changes in respiratory function after one and three hours of exposure to formaldehyde in non-smoking subjects. Akbar-Khanzadeh F, et al. **Occup Environ Med** 1997 May; 54(5):296-300

Mortality among chemical workers in a factory where formaldehyde was used. Marsh GM, et al. **Occup Environ Med** 1996 Sep;53(9):613-27

Are textile formaldehyde regulations reasonable? Experiences from the Finnish textile and clothing industries. Priha E. **Regul Toxicol Pharmacol** 1995 Dec;22(3):243-9

Testicular toxicity: regulatory guidelines--the end of formaldehyde fixation? Harleman JH, et al. **Toxicol Pathol** 1997 Jul-Aug;25(4):414-7; discussion 418

[Hygienic and immuno-allergologic aspects of the effects of formaldehyde and wood dust in furniture production] Dueva LA, et al. **Med Tr Prom Ekol** 1996;(11):13-7 (Eng. Abstr.) **(Rus)**

[Clinical aspects of stomach and duodenal ulcer in workers exposed to phenol and formaldehyde] Pomytkina TE. **Med Tr Prom Ekol** 1996;(11):40-2 **(Rus)**

ANALYSIS

A high-performance liquid chromatographic (HPLC) method for the simultaneous determination of nitrite and formaldehyde from foods. Csiba A, et al. **Acta Vet Hung** 1996;44(2):165-72

Field precision of formaldehyde sampling and analysis using NIOSH method 3500. Akbar-Khanzadeh F, et al. **Am Ind Hyg Assoc J** 1997 Sep;58(9):657-60

Worker exposure to endotoxin, phenolic compounds, and formaldehyde in a fiberglass insulation manufacturing plant. Milton DK, et al. **Am Ind Hyg Assoc J** 1996 Oct; 57(10):889-96

Colophony, formaldehyde and mercury in mascaras. Sainio EL, et al. **Contact Dermatitis** 1996 May;34(5):364-5

Exposure to volatile organic compounds in the passenger compartment of automobiles during periods of normal and malfunctioning operation. Lawryk NJ, et al. **J Expo Anal Environ Epidemiol** 1995 Oct-Dec;5(4):511-31

[An example for stepwise reduction of work site-induced formaldehyde exposure in pathology] Binding N, et al. **Pathologe** 1996 Sep;17(5):380-4 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

Intrathecally administered c-fos antisense oligodeoxynucleotide decreases formalin-induced nociceptive behavior in adult rats. Hou WY, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):17-26

Blockade of spinal N- and P-type, but not L-type, calcium channels inhibits the excitability of rat dorsal horn neurones produced by subcutaneous formalin inflammation. Diaz A, et al. **Pain** 1997 Jan;69(1-2):93-100

CHEMISTRY

Effect of aqueous and nonaqueous fixatives on the quantitative estimation of collagen-proteoglycan interaction in tissue sections. Toledo OM, et al. **Biotech Histochem** 1996 May;71(3):109-14

Structure and mechanism of formation of a new adduct from formaldehyde and guanosine. Kennedy G, et al. **Chem Biol Interact** 1996 Oct 21;102(2):93-100

Chloromethyl-X-Rosamine is an aldehyde-fixable potential-sensitive fluorochrome for the detection of early apoptosis. Macho A, et al. **Cytometry** 1996 Dec 1; 25(4):333-40

The effects of mercaptoethanol-formaldehyde on tissue fixation and protein retention. Durgun-Yücel B, et al. **Histochem J** 1996 May;28(5):375-83

Identification of leucocyte surface antigens in paraffin-embedded bovine tissues using a modified formalin dichromate fixation. Rathkolb B, et al. **Histochem J** 1997 Jun;29(6):487-93

Demonstration of urate in formalin fixative as support for the histopathological diagnosis of gout [letter] Eulderink F, et al. **Histopathology** 1997 Feb;30(2):195

Doxoform and Daunoform: anthracycline-formaldehyde conjugates toxic to resistant tumor cells. Fenick DJ, et al. **J Med Chem** 1997 Aug 1;40(16):2452-61

Chromatin structure and methylation of rat rRNA genes studied by formaldehyde fixation and psoralen cross-linking. Stancheva I, et al. **Nucleic Acids Res** 1997 May 1;25(9):1727-35

DIAGNOSTIC USE

Spinally delivered nociceptin/orphanin FQ reduces flinching behaviour in the rat formalin test. Erb K, et al. **Neuroreport** 1997 May 27;8(8):1967-70

Induction of spinal cord neuronal nitric oxide synthase (NOS) after formalin injection in the rat hind paw. Lam HH, et al. **Neurosci Lett** 1996 Jun 7;210(3):201-4

Differential contribution of the two phases of the formalin test to the pattern of c-fos expression in the rat spinal cord: studies with remifentanil and lidocaine. Abbadie C, et al. **Pain** 1997 Jan;69(1-2):101-10

The effect of lesions of the dorsolateral funiculus on formalin pain and morphine analgesia: a dose-response analysis. Abbott FV, et al. **Pain** 1996 Apr;65(1):17-23

Continuous intravenous infusion of naloxone does not change behavioral, cardiovascular, or inflammatory responses to subcutaneous formalin in the rat. Taylor BK, et al. **Pain** 1997 Jan;69(1-2):171-7

Optimal scoring strategies and weights for the formalin test in rats. Watson GS, et al. **Pain** 1997 Mar;70(1):53-8

Microwave pretreatment improves RNA-ISH in various formalin-fixed tissues using a uniform protocol. Wilkens L, et al. **Pathol Res Pract** 1996 Jun;192(6):588-94

Opioid antagonist profile of SC nor-binaltorphimine in the formalin paw assay. Wettstein JG, et al **Pharmacol Biochem Behav** 1996 Feb;53(2):411-6

Effect of picrotoxin on antinociception in the formalin test. Heidari MR, et al. **Pharmacol Toxicol** 1996 May;78(5):313-6

IMMUNOLOGY

Formaldehyde and phenol exposure during an anatomy dissection course: a possible source of IgE-mediated sensitization? Wantke F, et al. **Allergy** 1996 Nov; 51(11):837-41

Immune response prevalence to formaldehyde-human serum albumin molecular adduct in a healthy population. Carraro E, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2-3):215-8

METABOLISM

Purification and properties of methyl formate synthase, a mitochondrial alcohol dehydrogenase, participating in formaldehyde oxidation in methylotrophic yeasts. Murdanoto AP, et al. **Appl Environ Microbiol** 1997 May; 63(5):1715-20

Oxidation of exogenous formaldehyde in methylotrophic and nonmethylotrophic yeast cells. Maidan NN, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):636-40

Reactions of hydrated formaldehyde in nasal mucus. Priha E, et al. **Chemosphere** 1996 Mar;32(6):1077-82

Dichloromethane metabolism to formaldehyde and reaction of formaldehyde with nucleic acids in hepatocytes of rodents and humans with and without glutathione S-transferase T1 and M1 genes. Casanova M, et al. **Fundam Appl Toxicol** 1997 Jun;37(2):168-80

Non-enzymatic formation of formaldehyde in mouse oocyte freezing mixtures. Karran G, et al. **Hum Reprod** 1996 Dec; 11(12):2681-6

Formation of formaldehyde from adrenaline in vivo; a potential risk factor for stress-related angiopathy. Yu PH, et al. **Neurochem Res** 1997 May;22(5):615-20

Maize glutathione-dependent formaldehyde dehydrogenase cDNA: a novel plant gene of detoxification. Fliegmann J, et al. **Plant Mol Biol** 1997 Aug;34(6):843-54

Oxidation of Tris and formaldehyde to CO2 by neutrophil oxidants. Zaki S, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):79-87

PHARMACOKINETICS

Formaldehyde replaces glutaraldehyde in porcine bioprosthetic heart valves [see comments] McClurg WM, et al. **J Heart Valve Dis** 1996 May;5(3):343-7. Comment in: J Heart Valve Dis 1997 May;6(3):327-8.

In response to "Formaldehyde Replaces Glutaraldehyde in Porcine Bioprosthetic Heart Valves" [letter; comment] Moore MA, et al. **J Heart Valve Dis** 1997 May;6(3):327-8 . Comment on: J Heart Valve Dis 1996 May;5(3):343-7.

Comparison of inhaled formaldehyde dosimetry predictions with DNA-protein cross-link measurements in the rat nasal passages. Hubal EA, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):47-55

PHARMACOLOGY

The effect of formalin on rumen surface area in red deer. Lentle RG, et al. **Anat Histol Embryol** 1997 Jun; 26(2):127-30

Formaldehyde vapour effects in chicken embryo. Magras IN. **Anat Histol Embryol** 1996 Sep;25(3):197-200

Plasmid-mediated formaldehyde resistance in Escherichia coli: characterization of resistance gene. Kümmerle N, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2276-9

The effect of formaldehyde on the growth of Candida diddensii 74-10 and Candida tropicalis R-70. Katranushkova C, et al. **Appl Biochem Biotechnol** 1997 Apr; 66(1):31-7

The role of DNase and EDTA on DNA degradation in formaldehyde fixed tissues. Yagi N, et al. **Biotech Histochem** 1996 May;71(3):123-9

Assessment of the effects of gramicidin, formaldehyde, and surfactants on Escherichia coli by flow cytometry using nucleic acid and membrane potential dyes. Comas J, et al. **Cytometry** 1997 Sep 1;29(1):58-64

The reaction of bacterial toxins with formaldehyde and its use for antigen stabilization. Petre J, et al. **Dev Biol Stand** 1996;87:125-34

Pneumostatic effect of gelatin-resorcinol formaldehyde-glutaraldehyde glue on thermal injury of the lung: an experimental study on rats. Kodama K, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):333-7

Caffeine antinociception: role of formalin concentration and adenosine A1 and A2 receptors. Sawynok J, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):105-11

Human stress protein response to formaldehyde exposure. Dietrich CJ, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):518-9

Formalin fixation strongly influences biomechanical properties of the spine. Wilke HJ, et al. **J Biomech** 1996 Dec;29(12):1629-31

Estimation of age from teeth by amino acid racemization: influence of fixative. Ohtani S, et al. **J Forensic Sci** 1997 Jan;42(1):137-9

Intraocular effects of ruthenium red in responses to compound 48/80 and topical formaldehyde in rabbit. Stenbäck H, et al. **J Ocul Pharmacol Ther** 1996 Spring; 12(1):85-93

Role of spinal gamma-aminobutyric acidA receptors in formalin-induced nociception in the rat. Kaneko M, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):928-38

Fate of gelatin-resorcinol-formaldehyde/glutaraldeyde adhesive on femoral vessel morphology. Walker JD, et al. **J Surg Res** 1997 Jul 15;71(1):73-8

Priming with live respiratory syncytial virus (RSV) prevents the enhanced pulmonary inflammatory response seen after RSV challenge in BALB/c mice immunized with formalin-inactivated RSV. Waris ME, et al. **J Virol** 1997 Sep;71(9):6935-9

Paraformaldehyde effect on ruthenium red and lysine preservation and staining of the staphylococcal glycocalyx. Fassel TA, et al. **Microsc Res Tech** 1997 Mar 1;36(5):422-7

Protein synthesis inhibitor cycloheximide dose-dependently decreases formalin-induced c-Fos protein and behavioral hyperalgesia in rats. Hou WY, et al. **Neurosci Lett** 1997 May 16;227(2):99–102

A contribution of neurokinin-1 receptor to formalin-induced c-fos expression in the rat spinal dorsal horn. Tao YX, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):105–8

Induction of interleukin-1 beta mRNA in the hypothalamus following subcutaneous injections of formalin into the rat hind paws. Yabuuchi K, et al. **Neurosci Lett** 1996 Mar 29; 207(2):109–12

Knee joint inflammation attenuates spinal FOS expression after unilateral paw formalin injection in rat. Yang LC, et al. **Neurosci Lett** 1997 Apr 4;225(2):89–92

The effect of pituitary adenylate cyclase activating peptide (PACAP) on the nociceptive formalin test. Zhang Y, et al. **Neurosci Lett** 1996 Apr 5;207(3):187–90

Formalin-induced changes in adrenocorticotropic hormone and corticosterone plasma levels and hippocampal choline acetyltransferase activity in male and female rats. Aloisi AM, et al. **Neuroscience** 1996 Oct;74(4):1019–24

Changes in formalin-evoked spinal Fos expression and nociceptive behaviour after oral administration of Bufferin A (aspirin) and L-5409709 (ibuprofen + caffeine + paracetamol). Carrive P, et al. **Pain** 1997 Apr; 70(2–3):253–66

Enantioselective inhibition of the formalin paw late phase by the NK1 receptor antagonist L-733,060 in gerbils. Rupniak NM, et al. **Pain** 1996 Sep;67(1):189–95

Procedures for embalming cadavers for the dissecting laboratory. Macdonald GJ, et al.
Proc Soc Exp Biol Med 1997 Sep;215(4):363–5 (4 ref.)

Comment on peroneal afferent nerve discharges and the formalin test [letter; comment] Davidson E. **Reg Anesth** 1997 Jul-Aug;22(4):385–6. Comment on: Reg Anesth 1996 May-Jun;21(3):226–33.

In situ and in vitro ruminal starch degradation of untreated and formaldehyde-treated wheat and maize.
Michalet-Doreau B, et al. **Reprod Nutr Dev** 1997 May-Jun; 37(3):305–12

c-fos expression after formalin injection into the face in the cat. Kuroda R, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):152–6

Expression cassettes for formaldehyde and fluoroacetate resistance, two dominant markers in Saccharomyces cerevisiae. van den Berg MA, et al. **Yeast** 1997 May; 13(6):551–9

POISONING

Circulatory shock in the course of fatal poisoning by ingestion of formalin [letter] Hilbert G, et al.
Intensive Care Med 1997 Jun;23(6):708

THERAPEUTIC USE

Gelatin-resorcinol-formaldehyde-glutaraldehyde glue-spread stapler prevents air leakage from the lung. Nomori H, et al. **Ann Thorac Surg** 1997 Feb;63(2):352–5

Effects of formalin, chloramine-T, and low salinity dip on the behavior and hemolymph biochemistry of the American lobster. Speare DJ, et al. **Can Vet J** 1996 Dec;37(12):729–34

Nasal packing for epistaxis: two methods compared [letter] Saab M, et al. **Eur J Emerg Med** 1997 Mar;4(1):44

Chemotherapy of dermatophilosis--a preliminary study. Aning KG, et al. **Trop Anim Health Prod** 1996 May;28(2 Suppl):38S–43S; discussion 74S–86S

[Surgery for acute aortic dissection extending to the aortic root using gelatine-resorcine-formol biological glue--a case report] Uchida K, et al.
Nippon Kyobu Geka Gakkai Zasshi 1997 Jul;45(7):1024–7 (Eng. Abstr.) **(Jpn)**

TOXICITY

Influence of methanol and its metabolites on the activity of alpha1-antitrypsin. Skrzydlewska E, et al. **Alcohol** 1997 May-Jun;14(3):295–9

Sensory irritation to mixtures of formaldehyde, acrolein, and acetaldehyde in rats. Cassee FR, et al. **Arch Toxicol** 1996; 70(6):329–37

Mutagenic activity of incense smoke in comparison to formaldehyde and acetaldehyde in Salmonella typhimurium TA102. Chang HL, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):394–401

Comments on DNA-protein crosslinks, a biomarker of exposure to formaldehyde--in vitro and in vivo studies' by Shaham et al [letter] Casanova M, et al.
Carcinogenesis 1996 Sep;17(9):2097–101

Lack of evidence for the involvement of formaldehyde in the hepatocarcinogenicity of methyl tertiary-butyl ether in CD-1 mice. Casanova M, et al. **Chem Biol Interact** 1997 Jul 11;105(2):131–43

Toxicity of formaldehyde and acrolein mixtures: in vitro studies using nasal epithelial cells. Cassee FR, et al.
Exp Toxicol Pathol 1996 Nov;48(6):481–3

Retrograde injections of formaldehyde into the biliary tree induce alterations of biliary epithelial function in rats. Dumont M, et al. **Hepatology** 1996 Nov;24(5):1217–23

Follow your nose. Reed C. **Hum Exp Toxicol** 1996 Nov; 15(11):920–1

S-formylglutathione hydrolase of Paracoccus denitrificans is homologous to human esterase D: a universal pathway for formaldehyde detoxification? Harms N, et al.
J Bacteriol 1996 Nov;178(21):6296–9

Effects of formaldehyde vapor on the nasal cavity and lungs of F-344 rats. Kamata E, et al.
J Environ Pathol Toxicol Oncol 1996;15(1):1–8

DNA sequence analysis of methylene chloride-induced HPRT mutations in Chinese hamster ovary cells: comparison with the mutation spectrum obtained for 1,2-dibromoethane and formaldehyde. Graves RJ, et al. **Mutagenesis** 1996 May;11(3):229–33

Sperm head abnormalities and dominant lethal effects of formaldehyde in albino rats. Odeigah PG. **Mutat Res** 1997 Mar 17;389(2–3):141–8

Quantification of epithelial cell micronuclei by fluorescence in situ hybridization (FISH) in mortuary science students exposed to formaldehyde. Titenko-Holland N, et al.
Mutat Res 1996 Dec 20;371(3–4):237–48

Formaldehyde mechanistic data and risk assessment: endogenous protection from DNA adduct formation. Conaway CC, et al. **Pharmacol Ther** 1996;71(1–2):29–55 (177 ref.)

Effect of picrotoxin on antinociception in the formalin test. Heidari MR, et al. **Pharmacol Toxicol** 1996 May;78(5):313–6

Signal changes in the spinal cord of the rat after injection of formalin into the hindpaw: characterization using functional magnetic resonance imaging. Pórszász R, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5034–9

A brief review of formaldehyde carcinogenesis in relation to rat nasal pathology and human health risk assessment. Morgan KT. **Toxicol Pathol** 1997 May-Jun;25(3):291–307 (142 ref.)

Local lymph node activation and IgE responses in brown Norway and Wistar rats after dermal application of sensitizing and non-sensitizing chemicals. Arts JH, et al. **Toxicology** 1997 Feb 28;117(2–3):229–34

[Genotoxic effect of formaldehyde in somatic human cells in vivo] Kitaeva LV, et al. **Genetika** 1996 Sep;32(9):1287–90 (Eng. Abstr.) **(Rus)**

[Experimental study of the effect of formaldehyde during embryogenesis on the activity of rat liver enzyme systems in ontogenesis] Astakhova LF, et al. **Vopr Med Khim** 1996 Jul-Sep;42(3):217–22 (Eng. Abstr.) **(Rus)**

FORMALIN see **FORMALDEHYDE**

FORMALIN TEST see **PAIN MEASUREMENT**

FORMAMIDES

ADMINISTRATION & DOSAGE

Paclitaxel and N-methylformamide: in vitro interactions in human colon cancer cell line. Valenti AM, et al.
Anticancer Res 1997 Jul-Aug;17(4A):2491–7

CHEMICAL SYNTHESIS

Synthesis and antihyperlipaemic activity of some novel N-cyanovinylformamidines. Shishoo CJ, et al.
Arzneimittelforschung 1997 Jan;47(1):35–8

CHEMISTRY

Reduced formamide content and hybridization temperature results in increased non-radioactive mRNA in situ hybridization signals [published erratum appears in Acta Histochem 1996 Apr;98(2):156] Berndt A, et al.
Acta Histochem 1996 Jan;98(1):79–87

Determination of association constants of dansyl-amino acids and beta-cyclodextrin in N-methylformamide by capillary electrophoresis. Valkó IE, et al. **Electrophoresis** 1997 Jun; 18(6):919–23

METABOLISM

Binding of formamides to liver alcohol dehydrogenase. Ramaswamy S, et al. **Biochemistry** 1997 Mar 25; 36(12):3522–7

Occurrence and biosynthesis of 5-aminoimidazole-4-carboxamide ribonucleotide and N-(beta-D-ribofuranosyl)formamide 5'-phosphate in Methanobacterium thermoautotrophicum delta(H). White RH. **J Bacteriol** 1997 Jan;179(2):563–6

PHARMACOLOGY

One-step, one-lane chemical DNA sequencing by N-methylformamide in the presence of metal ions. Negri R, et al. **Biotechniques** 1996 Nov;21(5):910–7

Influence of N-methylformamide on the intracellular transport of doxorubicin. Calcabrini A, et al.
Eur J Cell Biol 1997 Jan;72(1):61–9

Inhibition of benzo[a]pyrene-induced mouse forestomach neoplasia and reduction of H2O2 concentration in human polymorphonuclear leucocytes by flavour components of Japanese-style fermented soy sauce. Kataoka S, et al.
Food Chem Toxicol 1997 May;35(5):449–57

Secondary structure content of the HDV ribozyme in 95% formamide. Duhamel J, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3911–7

TOXICITY

Reproductive toxicology. Formamide.
Environ Health Perspect 1997 Feb;105 Suppl 1:311–2

Developmental toxicity of inhaled N-methylformamide in the rat. Rickard LB, et al. **Fundam Appl Toxicol** 1995 Dec; 28(2):167–76

Nephrotoxicity of thioformamide, a proximate toxicant of nephrotoxic thiazoles, in mice depleted of glutathione. Mizutani T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct;94(1):89–101

FORMATE DEHYDROGENASES

CHEMISTRY

Formate dehydrogenase-coupled spectrophotometric assay of peptide deformylase. Lazennec C, et al.
Anal Biochem 1997 Jan 1;244(1):180–2

The formate dehydrogenase isolated from the aerobe Methylobacterium sp. RXM is a molybdenum-containing protein. Duarte RO, et al.
Biochem Biophys Res Commun 1997 Jan 3;230(1):30–4

Identification of molybdopterins in molybdenum- and selenium-containing enzymes. Gladyshev VN, et al.
Biofactors 1995–96;5(2):93–7

Picture story. Cast metal stomach [comment] Felsenfeld AL. **Nat Struct Biol** 1997 Apr;4(4):262. Comment on: Nat Struct Biol 1997 Apr;4(4):276–84.

Crystal structure of formate dehydrogenase H: catalysis involving Mo, molybdopterin, selenocysteine, and an Fe4S4 cluster. Boyington JC, et al. **Science** 1997 Feb 28; 275(5304):1305–8

GENETICS

Structure and function of a second gene cluster encoding the formate dehydrogenase of Wolinella succinogenes. Lenger R, et al. **Eur J Biochem** 1997 Jun 15;246(3):646–51

Growth- and substrate-dependent transcription of the formate dehydrogenase (fdhCAB) operon in Methanobacterium thermoformicicum Z-245. Nölling J, et al. **J Bacteriol** 1997 Feb;179(3):899–908

Regulation of the formate dehydrogenase gene, FDH1, in the methylotrophic yeast Candida boidinii and growth characteristics of an FDH1-disrupted strain on methanol, methylamine, and choline. Sakai Y, et al. **J Bacteriol** 1997 Jul;179(14):4480–5

Suppression of Escherichia coli formate hydrogenlyase activity by trimethylamine N-oxide is due to drainage of the inducer formate. Abaibou H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2657–64

ISOLATION & PURIFICATION

The formate dehydrogenase isolated from the aerobe Methylobacterium sp. RXM is a molybdenum-containing protein. Duarte RO, et al.
Biochem Biophys Res Commun 1997 Jan 3;230(1):30–4

METABOLISM

Effect of pH on kinetic parameters of NAD+-dependent formate dehydrogenase. Mesentsev AV, et al.
Biochem J 1997 Jan 15;321 (Pt 2):475–80

Interaction of the Escherichia coli fdhF mRNA hairpin promoting selenocysteine incorporation with the ribosome. Hüttenhofer A, et al. **Nucleic Acids Res** 1996 Oct 15; 24(20):3903–10

FORMATE HYDROGENLYASES see **FORMATE DEHYDROGENASES**

FORMATES

CHEMISTRY

Use of p-nitrophenyl chloroformate chemistry to immobilize protein on orthopedic biomaterials. Mikulec LJ, et al.
J Biomed Mater Res 1996 Oct;32(2):203–8

METABOLISM

Assimilation of oxalate, acetate, and CO2 by Oxalobacter formigenes. Cornick NA, et al. **Can J Microbiol** 1996 Nov; 42(11):1081–6

Effect of folic acid supplementation on folate status and formate oxidation rate in mink (Mustela vision). Pölönen IJ, et al. **J Anim Sci** 1997 Jun;75(6):1569–74

FORMAZANS

ANALYSIS

Colorimetric assay for substrates of NADP+-dependent dehydrogenases based on reduction of a tetrazolium dye to its soluble formazan. Debnam PM, et al.
Anal Biochem 1997 Aug 1;250(2):253–5

CHEMISTRY

Simple and reliable methods to assess hepatocyte viability in bioartificial liver support system matrices. Sun J, et al.
Artif Organs 1997 May;21(5):408–13

FORMIC ACID ESTERS

TOXICITY

Trout liver slices for metabolism and toxicity studies. Singh

FORMIC ACID ESTERS

Y, et al. **Drug Metab Dispos** 1996 Jan;24(1):7–14
Monoamine oxidase released into plasma treated with the hepatotoxin allyl formate. Obata T, et al.
Res Commun Mol Pathol Pharmacol 1996 Jun;92(3):365–8

FORMIC ACIDS

Optimization of the capillary zone electrophoresis loading limit and resolution of proteins, using triethylamine, ammonium formate and acidic pH. Lee HG, et al.
J Chromatogr B Biomed Appl 1997 Mar 28;691(1):67–75

ADVERSE EFFECTS

Formic acid inhalation injury: a case report. Yelon JA, et al. **J Burn Care Rehabil** 1996 May–Jun;17(3):241–2

METABOLISM

Mechanism of H(+)-coupled formate transport in rabbit renal microvillus membranes. Saleh AM, et al.
Am J Physiol 1996 Aug;271(2 Pt 2):F401–7
Role of formate and hydrogen in the degradation of propionate and butyrate by defined suspended cocultures of acetogenic and methanogenic bacteria. Stams AJ, et al.
Antonie Van Leeuwenhoek 1995 Nov;68(4):281–4
Formate bound to cytochrome oxidase can be removed by cyanide and by reduction. Chang KT, et al.
Biochim Biophys Acta 1996 Dec 18;1277(3):237–42
Stable isotope studies of phytanic acid alpha-oxidation: in vivo production of formic acid. Verhoeven NM, et al.
Eur J Pediatr 1997 Aug;156 Suppl 1:S83–7
Functional identity of a purified proximal tubule anion exchanger protein: mediation of chloride/formate and chloride/bicarbonate exchange. Soleimani M, et al.
Kidney Int 1996 Dec;50(6):1914–21
Suppression of Escherichia coli formate hydrogenlyase activity by trimethylamine N-oxide is due to drainage of the inducer formate. Abaibou H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2657–64
Defensive production of formic acid (80%) by a carabid beetle (Galerita lecontei). Rossini C, et al.
Proc Natl Acad Sci U S A 1997 Jun 24;94(13):6792–7
Effects of formic acid hydrolysis on the quantitative analysis of radiation-induced DNA base damage products assayed by gas chromatography/mass spectrometry. Swarts SG, et al. **Radiat Environ Biophys** 1996 Feb;35(1):41–53
Crystal structure of formate dehydrogenase H: catalysis involving Mo, molybdopterin, selenocysteine, and an Fe4S4 cluster. Boyington JC, et al. **Science** 1997 Feb 28; 275(5304):1305–8
[The effect of 2,4-dinitrophenol and glucose on the utilization of succinate, lactate, pyruvate and formate by Escherichia coli K12] Dyl'ovyĭ MV. **Ukr Biokhim Zh** 1996 Mar–Apr; 68(2):37–41 (Eng. Abstr.) **(Ukr)**

PHARMACOLOGY

Mechanisms of stimulation of proximal tubule chloride transport by formate and oxalate. Wang T, et al.
Am J Physiol 1996 Aug;271(2 Pt 2):F446–50
Inhibition of acid production in Streptococcus mutans R9 by formic acid. Assinder SJ, et al.
FEMS Microbiol Lett 1996 Oct 1;143(2–3):229–33
Characterization of fhlA mutations resulting in ligand-independent transcriptional activation and ATP hydrolysis. Korsa I, et al. **J Bacteriol** 1997 Jan;179(1):41–5
Kinetics of cell-wall digestion of orchardgrass and alfalfa silages treated with cellulase and formic acid. Nadeau EM, et al. **J Dairy Sci** 1996 Dec;79(12):2207–16
[Fermentation process during the ensiling of green forage low in nitrate. 2. Fermentation process after supplementation of nitrate, nitrite, lactic acid bacteria and formic acid] Kaiser E, et al. **Arch Tierernahr** 1997; 50(2):187–200 (Eng. Abstr.) **(Ger)**

THERAPEUTIC USE

Antibacterial activity of formic and propionic acids in the diet of hens on Salmonellas in the crop. Thompson JL, et al. **Br Poult Sci** 1997 Mar;38(1):59–65

TOXICITY

In vitro assessment of the effect of methanol and the metabolite, formic acid, on embryonic development of the rat. Brown-Woodman PD, et al. **Teratology** 1995 Oct; 52(4):233–43
Formate-induced alterations in retinal function in methanol-intoxicated rats. Eells JT, et al.
Toxicol Appl Pharmacol 1996 Sep;140(1):58–69

FORMICOIDEA VENOMS see **ANT VENOMS**

N-FORMIMIDOYLTHIENAMYCIN see **IMIPENEM**

FORMOCRESOLS

ADMINISTRATION & DOSAGE

Ferric sulfate versus dilute formocresol in pulpotomized primary molars: long-term follow up. Fuks AB, et al.
Pediatr Dent 1997 Jul–Aug;19(5):327–30

FORMS AND RECORDS CONTROL

see related
MEDICAL RECORDS SYSTEMS, COMPUTERIZED

Comparison between emergency department and inpatient E-codes [letter] Rubens AJ, et al. **Acad Emerg Med** 1996 Apr;3(4):385–6
The effect of anticipatory discharge orders on length of hospital stay in staff pediatric patients. Sumer T, et al.
Am J Med Qual 1997 Spring;12(1):48–50
Estimating the completeness of under-5 death registration in Egypt. Becker S, et al. **Demography** 1996 Aug; 33(3):329–39
Those elusive molecular diagnostics CPT codes [news] Grody WW, et al. **Diagn Mol Pathol** 1997 Jun;6(3):131–3
Real world data--retrieval and validation of consultation data from four general practices. Neal RD, et al.
Fam Pract 1996 Oct;13(5):455–61
Coding and reimbursement for obstetric-gynecologic services [see comments] Griffin LP.
J Am Assoc Gynecol Laparosc 1995 Feb;2(2):125–9. Comment in: J Am Assoc Gynecol Laparosc 1995 Aug;2(4):493–5.
Dr. Griffin's special article on CPT coding, RBRVS, and reimbursement issues [letter; comment] Redwine DB.
J Am Assoc Gynecol Laparosc 1995 Aug;2(4):493–5. Comment on: J Am Assoc Gynecol Laparosc 1995 Feb;2(2):125–9.
Utility of a standardized sign-out card for new medical interns. Lee LH, et al. **J Gen Intern Med** 1996 Dec; 11(12):753–5
Self-report versus state records for identifying crashes among older drivers. Marottoli RA, et al.
J Gerontol A Biol Sci Med Sci 1997 May;52(3):M184–7
DIABCARD--an application of a portable medical record for persons with diabetes. Engelbrecht R, et al.
Med Inf (Lond) 1996 Oct–Dec;21(4):273–82
Identifying data. Bluestone NR. **Pharos** 1996 Winter; 59(1):20–3
[Form-filling is a curse. The paper work takes too much time from the patients] Förberg P, et al. **Lakartidningen** 1997 Jun 25;94(26–27):2444 **(Swe)**
[Sick certificates? (letter)] Nilsson ME. **Lakartidningen** 1996 Oct 9;93(41):3554 **(Swe)**

LEGISLATION & JURISPRUDENCE

Storage and release of radiographs. Berlin L.
AJR Am J Roentgenol 1997 Apr;168(4):895–7
Independent medical examinations and the fuzzy politics of disclosure [see comments] Grant D. **Can Med Assoc J** 1997 Jan 1;156(1):73–5. Comment in: Can Med Assoc J 1997 Mar 1;156(5):634. Comment in: Can Med Assoc J 1997 Apr 1;156(7):977.
Protecting the privacy of student education records. Policy Studies Associates, Inc. **J Sch Health** 1997 Apr; 67(4):139–40

METHODS

Computer-generated prescription forms for discharge medications. Gannon PM, et al.
Am J Health Syst Pharm 1996 Dec 15;53(24):2976–7
Sharing antenatal care: client satisfaction and use of the 'patient-held record'. Webster J, et al.
Aust N Z J Obstet Gynaecol 1996 Feb;36(1):11–4
A World Wide Web-based user interface for a data management system for use in multi-institutional clinical trials--development and experimental operation of an automated patient registration and random allocation system. Kiuchi T, et al. **Control Clin Trials** 1996 Dec; 17(6):476–93
Format-independent data collection forms. Singer SW, et al. **Control Clin Trials** 1995 Dec;16(6):363–76
Accuracy of data in computer-based patient records. Hogan WR, et al. **J Am Med Inform Assoc** 1997 Sep–Oct; 4(5):342–55 (36 ref.)
A generalized language for platform-independent structured reporting. Kahn CE Jr. **Methods Inf Med** 1997 Aug; 36(3):163–71
A proposal for improving the acquisition of medical data in forward field hospitals. Carey ME. **Mil Med** 1996 Feb; 161(2):92–6
Check-off logs for routine equipment maintenance. Brewster MA, et al. **Qual Assur** 1995 Dec;4(4):332–5
Equipment records for modular analytical systems. Pease KA. **Qual Assur** 1995 Dec;4(4):329–31

ORGANIZATION & ADMINISTRATION

Registration of births, stillbirths and infant deaths in Jamaica. McCaw-Binns AM, et al. **Int J Epidemiol** 1996 Aug; 25(4):807–13
Documentation of patient teaching. Barnes LP.
MCN Am J Matern Child Nurs 1996 Mar–Apr;21(2):111
Patient-retained records--experience at the Alexandra Health Centre [letter] Daviaud E, et al. **S Afr Med J** 1996 Aug;86(8):986–7

STANDARDS

Informed consent for medical research: common discrepancies and readability. White LJ, et al.
Acad Emerg Med 1996 Aug;3(8):745–50
Special order forms for cancer chemotherapy [letter; comment] Carrera Hueso FJ. **Am J Health Syst Pharm** 1996 Oct 1;53(19):2343. Comment on: Am J Health Syst Pharm 1996 Apr 1;53(7):737–46.
Continued inadequacies in data sources for the evaluation of cancer services. Smith SJ, et al. **Br J Cancer** 1997; 75(1):131–3
An open letter to the FDA regarding changes in reporting procedures for drugs and biologics proposed in the wake of the FIAU tragedy. Meinert CL. **Control Clin Trials** 1996 Aug;17(4):273–84
Inaccuracy of the International Classification of Diseases (ICD-9-CM) in identifying the diagnosis of ischemic cerebrovascular disease. Benesch C, et al. **Neurology** 1997 Sep;49(3):660–4

STATISTICS & NUMERICAL DATA

Immunization compliance among public and private school children. Fredrickson DD, et al. **J Sch Health** 1997 Feb; 67(2):75–7

FORMULARIES

see related
PHARMACOPOEIAS

Limitations of 'personal formularies' [letter] Manyari DE.
Am Fam Physician 1997 Jun;55(8):2604, 2606
Formulary revision: eliciting the opinions of users. McGavock H, et al. **Br J Gen Pract** 1996 Jul;46(408):419–21
Implementation of multiple outpatient formularies: undesirable effects. Stein CM, et al.
Clin Pharmacol Ther 1997 Jan;61(1):1–7 (32 ref.)
Poor utilisation and limited impact of formularies on quality of prescribing by hospital doctors. Hemeryck L, et al.
Ir Med J 1996 Sep–Oct;89(5):173–4
Adherence to the Grampian joint drug formulary in general practice. Stewart D, et al. **J Clin Pharm Ther** 1996 Apr; 21(2):79–82
Choosing drug of choice from restrictive formulary [editorial] Bender KJ. **J Clin Psychopharmacol** 1997 Jun; 17(3):145–8
Elucidation of Islamic drugs in Hui Hui Yao Fang: a linguistic and pharmaceutical approach. Kong YC, et al.
J Ethnopharmacol 1996 Nov;54(2–3):85–102
In vivo characterization of sustained-release formulations of human growth hormone. Lee HJ, et al.
J Pharmacol Exp Ther 1997 Jun;281(3):1431–9
Whither triazolam? Johnson RE, et al. **Med Care** 1997 Apr; 35(4):303–10
Architecture for a Federated Drug Reference in a managed care environment. Ketchell DS, et al.
Proc AMIA Annu Fall Symp 1996;:413–7

STANDARDS

[Comparison of regional formularies for general practitioners] Kamps GB, et al. **Ned Tijdschr Geneeskd** 1997 May 17; 141(20):1002–7 (Eng. Abstr.) **(Dut)**

FORMULARIES, HOMEOPATHIC

Classical homeopathic treatment of chronic headaches. Walach H, et al. **Cephalalgia** 1997 Apr;17(2):119–26; discussion 101
The efficacy of Prrrikweg gel in the treatment of insect bites: a double-blind, placebo-controlled clinical trial. Hill N, et al. **Pharm World Sci** 1996 Jan;18(1):35–41

FORMULARIES, HOSPITAL

Where is the evidence for formulary effectiveness? [letter; comment] Hepler CD. **Am J Health Syst Pharm** 1997 Jan 1;54(1):95. Comment on: Am J Health Syst Pharm 1996 Sep 15;53(18):2201–3. Comment on: Am J Health Syst Pharm 1996 Sep 15;53(18):2204–6.
Unintended consequences of drug formularies [see comments] Horn SD. **Am J Health Syst Pharm** 1996 Sep 15; 53(18):2204–6. Comment in: Am J Health Syst Pharm 1997 Jan 1;54(1):95.
Antimicrobial formulary control: is the glass half empty or half full? [comment] Rapp RP, et al.
Am J Health Syst Pharm 1996 Sep 1;53(17):2091–2. Comment on: Am J Health Syst Pharm 1996 Sep 1;53(17):2054–62.
Improving the presentation of drug information to pharmacy and therapeutics committees for formulary decisions. Sterné SC, et al. **Am J Health Syst Pharm** 1996 May 15; 53(10):1162–4
The American Hospital Formulary Service information books beat the PDR [letter] Hooper PL.
Arch Intern Med 1997 Mar 10;157(5):575–6
Ceftazidime to cefepime formulary switch: pharmacodynamic and pharmacoeconomic rationale. Owens RC Jr, et al. **Conn Med** 1997 Apr;61(4):225–7
Formulary management in a military treatment facility. Carr VF, et al. **Mil Med** 1997 Mar;162(3):205–8
Pharmacy benefit management, cost-effectiveness analysis and drug formulary decisions. Grabowski H, et al.
Soc Sci Med 1997 Aug;45(4):535–44
Basic dermatological treatments for tropical district hospitals. Gibbs S. **Trop Doct** 1997 Jul;27(3):142–5
[Drug selection in hospitals. A model of reference in

self-management of resources] Lucena González MI, et al. **An Med Interna** 1996 Oct;13(10):505-10 (Eng. Abstr.) **(Spa)**

STANDARDS

Drug formularies provide a path to best care [see comments] Curtiss FR. **Am J Health Syst Pharm** 1996 Sep 15; 53(18):2201-3. Comment in: Am J Health Syst Pharm 1997 Jan 1;54(1):95.

FORMULARY COMMITTEE see **PHARMACY AND THERAPEUTICS COMMITTEE**

FORMULARY, NATIONAL see **PHARMACOPOEIAS**

FORMYCINS

PHARMACOKINETICS

Uptake and release of [3H]formycin B via sodium-dependent nucleoside transporters in mouse leukemic L1210/MA27.1 cells. Borgland SL, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):347-53

PHARMACOLOGY

The riddle of formycin A insulinotropic action. Malaisse WJ, et al. **Biochem Mol Med** 1996 Feb;57(1):47-63

N-FORMYLMETHIONINE

METABOLISM

Increased production of peptide deformylase eliminates retention of formylmethionine in bovine somatotropin overproduced in Escherichia coli. Warren WC, et al. **Gene** 1996 Oct 3;174(2):235-8

Hydrolysis of N-formylmethionyl chemotactic peptides by endopeptidase 24.11 and endopeptidase 24.15. Lesser M, et al. **Peptides** 1996;17(1):13-6

N-FORMYLMETHIONINE LEUCYL-PHENYLALANINE

Stimulation of inflammatory mediators secretion by chemotactic peptides in rat colitis model. Ledesma de Paolo MI, et al. **Acta Gastroenterol Latinoam** 1996;26(1):23-30

Enhanced expression of chemotactic receptors in multiple sclerosis lesions. Müller-Ladner U, et al. **J Neurol Sci** 1996 Dec;144(1-2):135-41

ANALOGS & DERIVATIVES

Subtle differences between human and rabbit neutrophil receptors shown by the secretagogue activity of constrained formyl peptides. Dentino AR, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):267-74

Chemotactic peptide analogues. Centrally constrained chemotactic N-formyltripeptides: synthesis, conformation, and activity of two new analogues. Pagani Zecchini G, et al. **Arch Pharm (Weinheim)** 1996 Dec;329(12):517-23

Synthesis, conformation, and biological activity of two fMLP-OMe analogues containing the new 2-[2'-(methylthio)ethyl]methionine residue. Torrini I, et al. **Biopolymers** 1997 Oct 5;42(4):415-26

Effect of cyclic AMP level reduction on human neutrophil responses to formylated peptides. Spisani S, et al. **Cell Signal** 1996 Jun;8(4):269-77

Localization of radiolabeled chemotactic peptide at focal sites of Escherichia coli infection in rabbits: evidence for a receptor-specific mechanism [see comments] Babich JW, et al. **J Nucl Med** 1997 Aug;38(8):1316-22. Comment in: J Nucl Med 1997 Aug;38(8):1322-6.

Technetium-99m-labeled chemotactic peptides: specific for imaging infection? [editorial; comment] Vallabhajosula S. **J Nucl Med** 1997 Aug;38(8):1322-6. Comment on: J Nucl Med 1997 Aug;38(8):1310-5. Comment on: J Nucl Med 1997 Aug;38(8):1316-22.

Technetium-99m-labeled chemotactic peptides in acute infection and sterile inflammation [see comments] van der Laken CJ, et al. **J Nucl Med** 1997 Aug;38(8):1310-5. Comment in: J Nucl Med 1997 Aug;38(8):1322-6.

The importance of the peptide bond at position 2 in HCO-Met-Leu-Phe-OMe analogues as shown by studies on human neutrophils. Cavicchioni G, et al. **J Pept Sci** 1996 May-Jun;2(3):135-40

Modifications of the amide bond at position 3 in fMLP analogs select neutrophil functions. Spisani S, et al. **Pept Res** 1996 Nov-Dec;9(6):279-82

ANTAGONISTS & INHIBITORS

Inhibition of N-formylmethionyl-leucyl-phenylalanine-stimulated tyrosine phosphorylation and phospholipase D activation by quercetin in rabbit neutrophils. Takemura OS, et al. **Biochem Pharmacol** 1997 May 15;53(10):1503-10

Losartan, a selective inhibitor of subtype AT1 receptors for angiotensin II, inhibits the binding of N-formylmethionyl-leucyl-phenylalanine to neutrophil receptors. Raiden S, et al. **J Pharmacol Exp Ther** 1997 May; 281(2):624-8

CHEMICAL SYNTHESIS

Chemotactic peptide analogues. Centrally constrained chemotactic N-formyltripeptides: synthesis, conformation, and activity of two new analogues. Pagani Zecchini G, et al. **Arch Pharm (Weinheim)** 1996 Dec;329(12):517-23

CHEMISTRY

Complex formation between a formyl peptide and 24p3 protein with a blocked N-terminus of pyroglutamate. Chu ST, et al. **J Pept Res** 1997 Jun;49(6):582-5

METABOLISM

Subtle differences between human and rabbit neutrophil receptors shown by the secretagogue activity of constrained formyl peptides. Dentino AR, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):267-74

Tumor necrosis factor-alpha modulates the selective interference of hypnotics and sedatives to suppress N-formyl-methionyl-leucyl-phenylalanine-induced oxidative burst formation in neutrophils. Weiss M, et al. **Crit Care Med** 1997 Jan;25(1):128-34

Interleukin-1 alpha (IL-1 alpha) and N-formyl-methionyl-leucyl-phenylalanine (FMLP) as potential inducers of supravital chemotaxis. Grellner W, et al. **Int J Legal Med** 1996;109(3):130-3

Chemoattractant receptor-induced phosphorylation of L-selectin. Haribabu B, et al. **J Biol Chem** 1997 May 23; 272(21):13961-5

Fixation traps formyl peptide receptors in high and low affinity forms that can be regulated by GTP[S] in the absence of ligand. Domalewski MD, et al. **J Recept Signal Transduct Res** 1996 Jan-Mar;16(1-2):59-75

PHARMACOLOGY

Phosphatidylinositol-3-kinase pathway is stimulated by fungal lipid containing cocoa butter equivalents (CBE) in FMet-Leu-Phe (FMLP)- and phorbolester (PMA)-challenged human neutrophils. Roux MP, et al. **Adv Exp Med Biol** 1996;416:349-53

Allergic bronchial asthma: eosinophil chemotaxis and antihistaminic drug modulation. Ventura MT, et al. **Allergy** 1996 Nov;51(11):777-81

C-reactive protein inhibits increased pulmonary vascular permeability induced by fMLP in isolated rabbit lungs. Abernathy VJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H507-13

Role of intracellular alkalinization in inhibition of acetylcholine-induced relaxation by FMLP in rat aorta. Ando K, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2405-10

Cooperation between the Fc epsilonR1 and formyl peptide receptor signaling pathways in RBL(FPR) cells: the contribution of receptor-specific Ca2+ mobilization responses. Lee RJ, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):812-9

Evidence for the activation of myeloperoxidase by f-Meth-Leu-Phe prior to its release from neutrophil granulocytes. Zipfel M, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):209-12

Co-operation of phosphatidylinositol transfer protein with phosphoinositide 3-kinase gamma in the formylmethionyl-leucylphenylalanine-dependent production of phosphatidylinositol 3,4,5-trisphosphate in human neutrophils. Kular G, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):299-301

ADP-ribosylation-factor-regulated phospholipase D activity localizes to secretory vesicles and mobilizes to the plasma membrane following N-formylmethionyl-leucyl-phenylalanine stimulation of human neutrophils. Morgan CP, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):581-5

A subpopulation analysis of f-MLP stimulated granulocytes migrating in filters. Ebrahimzadeh PR, et al. **Biorheology** 1996 May-Jun;33(3):231-50

The N-formyl methionyl peptide, formyl-methionyl-leucyl phenylalanine (fMLF) increases the lateral diffusion of complement receptor 1 (CR1/CD35) in human neutrophils; a causative role for oxidative metabolites? Rasmusson BJ, et al. **Biosci Rep** 1996 Oct;16(5):391-404

Effects of volatile anaesthetics on human neutrophil oxidative response to the bacterial peptide FMLP. Fröhlich D, et al. **Br J Anaesth** 1997 Jun;78(6):718-23

Signalling defect in FMLP-induced neutrophil respiratory burst in myelodysplastic syndromes. Nakaseko C, et al. **Br J Haematol** 1996 Dec;95(3):482-8

Characterization of inositol hexakisphosphate (InsP6)-mediated priming in human neutrophils: lack of extracellular [3H]-InsP6 receptors. Kitchen E, et al. **Br J Pharmacol** 1996 Mar;117(5):979-85

Effect of 4-hydroxynonenal on superoxide anion production from primed human neutrophils. Dianzani C, et al. **Cell Biochem Funct** 1996 Sep;14(3):193-200

Topographic distribution of CD18 integrin on human neutrophils as related to shape changes and movement induced by chemotactic peptide and phorbol esters. Fernández-Segura E, et al. **Cell Immunol** 1996 Jul 10; 171(1):120-5

Effect of cyclic AMP level reduction on human neutrophil responses to formylated peptides. Spisani S, et al. **Cell Signal** 1996 Jun;8(4):269-77

Recovery of human basophils after FMLP-stimulated secretion. Dvorak AM, et al. **Clin Exp Allergy** 1996 Mar; 26(3):281-94

Inhibition of Fc gamma R-dependent functions by N-formylmethionylleucylphenylalanine in human neutrophils. Alves Rosa MF, et al. **Clin Immunol Immunopathol** 1997 May;83(2):147-55

N-formyl-methionyl-leucyl-phenylalanine induces and modulates IL-1 and IL-6 in human PBMC. Arbour N, et al. **Cytokine** 1996 Jun;8(6):468-75

Bacterial peptides enhance inflammatory activity in a rat model of colitis. García-Lafuente A, et al. **Digestion** 1996; 57(5):368-73

Thiopentone and propofol, but not methohexitone nor midazolam, inhibit neutrophil oxidative responses to the bacterial peptide FMLP. Fröhlich D, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):582-8

Effects of human low-density lipoproteins on superoxide production by formyl-methionyl-leucyl-phenylalanine activated polymorphonuclear leukocytes. Bonneau C, et al. **Eur J Clin Chem Clin Biochem** 1997 Feb;35(2):73-80

Comparison of tBuBHQ with chemotactic peptide and phorbol ester in O2- production in HL-60 cells. Tsukii K, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):87-95

Tyrosine phosphorylation and subcellular redistribution of p125 ras guanosine triphosphatase-activating protein in human neutrophils stimulated with FMLP. Dusi S, et al. **FEBS Lett** 1996 Apr 1;383(3):181-4

Phospholipase D is involved in cytosolic phospholipase A2-dependent selective release of arachidonic acid by fMLP-stimulated rat neutrophils. Fujita K, et al. **FEBS Lett** 1996 Oct 21;395(2-3):293-8

Dephosphorylation of a 34kd triton-insoluble F-actin pool protein is associated with phorbol ester-induced actin polymerization in human polymorphonuclear leukocytes. Watts RG. **Hematopathol Mol Hematol** 1996;10(1-2):69-84

Uncoupling of biliary lipid from bile acid secretion by formyl-methionyl-leucyl-phenylalanine in the rat. Mizuno K, et al. **Hepatology** 1996 Nov;24(5):1224-9

Internalization of ecto-ATPase activity in human neutrophils upon stimulation with phorbol ester or formyl peptide. Kobayashi T, et al. **Histochem Cell Biol** 1997 May; 107(5):353-63

Augmentation of tumor necrosis factor-alpha-induced priming of fMet-Leu-Phe-stimulated neutrophils by pentoxifylline. Dunzendorfer S, et al. **Immunol Lett** 1997 Jul;58(2):75-8

Adhesion properties of human alveolar macrophages with respect to extracellular matrix components and chemotactic agonists. Lundahl J, et al. **Immunol Lett** 1996 Nov; 53(2-3):121-4

Hemodynamic and metabolic effects of intravenous formyl-methionyl-leucyl-phenylalanine (FMLP) in rabbits. Jonsson M, et al. **In Vivo** 1997 Mar-Apr;11(2):133-9

Role of resident mast cells and macrophages in the neutrophil migration induced by LTB4, fMLP and C5a des arg. Ribeiro RA, et al. **Int Arch Allergy Immunol** 1997 Jan; 112(1):27-35

Glycosylation improves the priming effect exerted by recombinant human granulocyte colony-stimulating factor (lenograstim) on human neutrophil superoxide production. Decleva E, et al. **Int J Tissue React** 1995;17(5-6):191-8

Neutrophil superoxide release is required for spontaneous and FMLP-mediated but not for TNF alpha-mediated apoptosis. Kettritz R, et al. **J Am Soc Nephrol** 1997 Jul; 8(7):1091-100

Activation of MEKK by formyl-methionyl-leucyl-phenylalanine in human neutrophils. Mapping pathways for mitogen-activated protein kinase activation. Avdi NJ, et al. **J Biol Chem** 1996 Dec 27;271(52):33598-606

Cell type- and developmental stage-specific activation of NF-kappaB by fMet-Leu-Phe in myeloid cells. Browning DD, et al. **J Biol Chem** 1997 Mar 21;272(12):7995-8001

The renaturable 69- and 63-kDa protein kinases that undergo rapid activation in chemoattractant-stimulated guinea pig neutrophils are p21-activated kinases. Ding J, et al. **J Biol Chem** 1996 Oct 4;271(40):24869-73

Chemotactic peptide N-formyl-met-leu-phe activation of p38 mitogen-activated protein kinase (MAPK) and MAPK-activated protein kinase-2 in human neutrophils. Krump E, et al. **J Biol Chem** 1997 Jan 10;272(2):937-44

A tyrosine kinase signaling pathway accounts for the majority of phosphatidylinositol 3,4,5-trisphosphate formation in chemoattractant-stimulated human neutrophils. Ptasznik A, et al. **J Biol Chem** 1996 Oct 11;271(41):25204-7

Chemotactic peptide-induced activation of Ras in human neutrophils is associated with inhibition of p120-GAP activity. Zheng L, et al. **J Biol Chem** 1997 Sep 12; 272(37):23448-54

Common and distinct intracellular signaling pathways in human neutrophils utilized by platelet activating factor and FMLP. Nick JA, et al. **J Clin Invest** 1997 Mar 1; 99(5):975-86

Human umbilical cord blood-derived eosinophils cultured in the presence of IL-3 and IL-5 respond to fMLP with [Ca2+]i variation and O2- production. Zardini DM, et al. **J Immunol Methods** 1997 Jun 23;205(1):1-9

Sequential potentiation and inhibition of PMN reactivity by maximally stimulated platelets. Aziz KA, et al. **J Leukoc Biol** 1997 Mar;61(3):322-8

Peroxynitrite augments fMLP-stimulated chemiluminescence

by neutrophils in human whole blood. Bednar MM, et al. **J Leukoc Biol** 1996 Nov;60(5):619–24

Phospholipase D mediates Fc gamma receptor activation of neutrophils and provides specificity between high-valency immune complexes and fMLP signaling pathways. Gewirtz AT, et al. **J Leukoc Biol** 1997 Apr;61(4):522–8

Random migration of polymorphonuclear leukocytes induced by GM-CSF involving a signal transduction pathway different from that of fMLP. Harakawa N, et al. **J Leukoc Biol** 1997 Apr;61(4):500–6

Desensitization of the fMLP-induced NADPH-oxidase response in human neutrophils is lacking in okadaic acid-treated cells. Harbecke O, et al. **J Leukoc Biol** 1997 Jun;61(6):753–8

Comparison of PAF- and fMLP-induced [Ca2+]i transients in human polymorphonuclear leukocytes. Nowak D, et al. **J Lipid Mediat Cell Signal** 1996 Mar;13(2):163–75

FMLP actions and its binding sites in isolated human coronary arteries. Keitoku M, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):881–94

Neutrophil-endothelial interactions in a cell-column model of the microvasculature: effects of fMLP. Haselton FR, et al. **Microcirculation** 1996 Sep;3(3):329–42

Histamine sustains fMLP-stimulated leukocyte adhesion in rat mesenteric venules in vivo. Thorlacius H, et al. **Microvasc Res** 1997 Mar;53(2):191–3

Beta-adrenergic modulation of FMLP- and zymosan-induced intracellular and extracellular oxidant production by polymorphonuclear leukocytes. Kopprasch S, et al. **Mol Cell Biochem** 1997 Mar;168(1–2):133–9

Modifications of the amide bond at position 3 in fMLP analogs select neutrophil functions. Spisani S, et al. **Pept Res** 1996 Nov-Dec;9(6):279–82

N-FORMYL-METHIONYL-LEUCYL-PHENYLALANINE see **N-FORMYLMETHIONINE LEUCYL-PHENYLALANINE**

N(5)-FORMYLTETRAHYDROFOLATE see **LEUCOVORIN**

N(10)-FORMYLTETRAHYDROFOLATE see **FORMYLTETRAHYDROFOLATES**

FORMYLTETRAHYDROFOLATE SYNTHETASE

ANALYSIS

Activity of 5-formyl tetrahydrofolate cyclodehydrase and 5,10-methenyl tetrahydrofolate cyclohydrolase in primary brain tumors in children. Tzortzatou-Stathopoulou F, et al. **Pediatr Hematol Oncol** 1996 Nov-Dec;13(6):511–9

CHEMISTRY

Purification, crystallization, and preliminary X-ray studies of 10-formyltetrahydrofolate synthetase from Clostridia acidici-urici. D'Ari L, et al. **Proteins** 1997 Feb;27(2):319–21

GENETICS

Site-directed mutagenesis of a highly conserved aspartate in the putative 10-formyl-tetrahydrofolate binding site of yeast C1-tetrahydrofolate synthase. Kirksey TJ, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):251–9

Genetic and physiologic analysis of a formyl-tetrahydrofolate synthetase mutant of Streptococcus mutans. Crowley PJ, et al. **J Bacteriol** 1997 Mar;179(5):1563–72

ISOLATION & PURIFICATION

Purification of folate-dependent enzymes from rabbit liver. Schirch V. **Methods Enzymol** 1997;281:146–61

METABOLISM

Site-directed mutagenesis of a highly conserved aspartate in the putative 10-formyl-tetrahydrofolate binding site of yeast C1-tetrahydrofolate synthase. Kirksey TJ, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):251–9

Genetic and physiologic analysis of a formyl-tetrahydrofolate synthetase mutant of Streptococcus mutans. Crowley PJ, et al. **J Bacteriol** 1997 Mar;179(5):1563–72

13C nuclear magnetic resonance detection of interactions of serine hydroxymethyltransferase with C1-tetrahydrofolate synthase and glycine decarboxylase complex activities in Arabidopsis. Prabhu V, et al. **Plant Physiol** 1996 Sep; 112(1):207–16

FORMYLTETRAHYDROFOLATES

METABOLISM

Formyltetrahydrofolates associated with mitochondria have longer polyglutamate chains than the methyltetrahydrofolates associated with cytoplasm in rat brain. Carl GF, et al. **J Nutr** 1996 Dec;126(12):3077–82

FORMYLTETRAHYDROFOLIC ACIDS see **FORMYLTETRAHYDROFOLATES**

FORSKOLIN

ANALOGS & DERIVATIVES

Effects of 6-(3-dimethylaminopropionyl)forskolin hydrochloride on energy metabolism in dog hearts in situ. Yokoyama H, et al. **Arzneimittelforschung** 1996 May; 46(5):467–71

Glucose transport activity and ligand binding (cytochalasin B, IAPS-forskolin) of chimeric constructs of GLUT2 and GLUT4 expressed in COS-7-cells. Wandel S, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):56–62

Differential effects of forskolin and 1,9-dideoxy-forskolin on nicotinic receptor- and K+-induced responses in chromaffin cells. Gandia L, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):189–99

Forskolin's structural analogue 1,9-dideoxyforskolin has Ca2+ channel blocker-like action in rat cerebellar granule cells. Zerr P, et al. **Eur J Pharmacol** 1996 May 6; 303(1–2):101–8

The pharmacodynamics of 6-(3-dimethylaminopropionyl)forskolin and a possible metabolite in beagles. Kametani S, et al. **J Pharm Sci** 1996 Apr;85(4):377–80

Purification of bovine brain adenylyl cyclase with a novel derivative of forskolin: evidence for a high specific activity form of the enzyme. Moos M Jr, et al. **Prep Biochem Biotechnol** 1996 May;26(2):155–67

Effects of 1, 9-dideoxy forskolin on delayed rectifier potassium current of bullfrog dorsal root ganglion cells. Tokimasa T. **Tokai J Exp Clin Med** 1995 Dec; 20(4–6):227–32

[Effectiveness of NKH477, a novel forskolin derivative, in rat cardiac preparations with desensitized beta-adrenoceptors] Ishizuka O, et al. **Nippon Yakurigaku Zasshi** 1996 Jul;108(1):23–30 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Carbachol inhibits basal and forskolin-evoked adult rat striatal acetylcholine release. Login IS. **Neuroreport** 1997 May 27;8(8):1863–6

CHEMISTRY

Forskolin derivatives. I. Synthesis, and cardiovascular and adenylate cyclase-stimulating activities of water-soluble forskolins. Tatee T, et al. **Chem Pharm Bull (Tokyo)** 1996 Dec;44(12):2274–9

D-Glucose, forskolin and cytochalasin B affinities for the glucose transporter Glut1. Study of pH and reconstitution effects by biomembrane affinity chromatography. Lu L, et al. **J Chromatogr A** 1997 Jul 25;776(1):81–6

METABOLISM

G-protein function is reduced in hypertension. Feldman RD, et al. **Hypertension** 1997 Jan;29(1 Pt 2):422–7

Interactions of forskolin and ATP with the cytosolic domains of mammalian adenylyl cyclase. Dessauer CW, et al. **J Biol Chem** 1997 Aug 29;272(35):22272–7

PHARMACOLOGY

Forskolin delays the ethanol-induced desensitization of hypothalamic beta-endorphin neurons in primary cultures. Boyadjieva N, et al. **Alcohol Clin Exp Res** 1997 May; 21(3):477–82

Carbachol, but not forskolin, increases mucosal-to-serosal transport of intact protein in rat ileum in vitro. Bijlsma PB, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G147–55

Insulin sensitizes beta-agonist and forskolin-stimulated lipolysis to inhibition by 2',5'-dideoxyadenosine. Gokmen-Polar Y, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C562–9

Purinergic agonists, but not cAMP, stimulate coupled granule fusion and Cl- conductance in HT29-Cl.16E. Guo XW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C804–9

Delta F508-CFTR channels: kinetics, activation by forskolin, and potentiation by xanthines. Haws CM, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1544–55

cAMP and forskolin inhibit potassium currents in rat taste receptor cells by different mechanisms. Herness MS, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C2005–18

Neurally mediated cardiac effects of forskolin in conscious dogs. Iwase M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1473–82

Modulation of gliquidone action by forskolin in the pancreas of normal and GK rats. Leclercq-Meyer V, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E52–8

Bovine pancreatic duct cells express cAMP- and Ca(2+)-activated apical membrane Cl- conductances. al-Nakkash L, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G204–16

cAMP modulates glucocorticoid-induced protein accumulation and glucocorticoid receptor in cardiomyocytes. Sato A, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 1):E827–33

A comparison between ischemic preconditioning and anti-adrenergic interventions: cAMP, energy metabolism and functional recovery. Moolman JA, et al. **Basic Res Cardiol** 1996 May-Jun;91(3):219–33

Challenge of human Jurkat T-cells with the adenylate cyclase activator forskolin elicits major changes in cAMP phosphodiesterase (PDE) expression by up-regulating PDE3 and inducing PDE4D1 and PDE4D2 splice variants as well as down-regulating a novel PDE4A splice variant. Erdogan S, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):165–75

Interleukin 1 beta and cAMP trigger the expression of GTP cyclohydrolase I in rat renal mesangial cells. Plüss C, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):665–71

Cyclic AMP-mediated control of LDL receptor gene expression in human skin fibroblasts. Holmes C, et al. **Biochem Soc Trans** 1997 May;25(2):179S

Potentiation by higenamine of the aconitine-induced positive chronotropic effect in isolated right atria of mice: the effects of cholera toxin, forskolin and pertussis toxin. Kimura I, et al. **Biol Pharm Bull** 1996 Aug;19(8):1032–7

Forskolin-stimulated platelet adenylyl cyclase activity is lower in persons with major depression. Menninger JA, et al. **Biol Psychiatry** 1997 Jul 1;42(1):30–8

The effect of forskolin on 5-HT1-like and angiotensin II-induced vasoconstriction and cyclic AMP content of the rabbit isolated femoral artery. Randall VA, et al. **Br J Pharmacol** 1996 Jun;118(3):627–34

PK 11195 blockade of benzodiazepine-induced inhibition of forskolin-stimulated adenylate cyclase activity in the striatum. Tenn CC, et al. **Br J Pharmacol** 1996 Sep; 119(2):223–8

D2 dopamine receptor activation inhibits basal and forskolin-evoked acetylcholine release from dissociated striatal cholinergic interneurons. Login IS. **Brain Res** 1997 Feb 21;749(1):147–51

Forskolin reduces the activity of the rat muscle embryonic type acetylcholine receptor channel. Lorenzon P, et al. **Brain Res** 1995 Dec 12;703(1–2):100–4

Dexamethasone and forskolin synergistically increase [Met5]enkephalin accumulation in mixed brain cell cultures. McMillian MK, et al. **Brain Res** 1996 Aug 19; 730(1–2):67–74

Age-related differences in mouse Schwann cell response to cyclic AMP. Yamada H, et al. **Brain Res** 1996 May 6; 719(1–2):187–93

The rat galanin-gene promoter: response to members of the nuclear hormone receptor family, phorbol ester and forskolin. Corness JD, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):11–23

Activation of protein kinase A prevents the ethanol-induced up-regulation of delta-opioid receptor mRNA in NG108-15 cells. Jenab S, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):44–8

Long-term regulation of synapsin I gene expression and neuronal morphology by cyclic AMP and low-dose staurosporine. Sasaki K, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):157–60

Interaction of the delta-opioid receptor with GM1 ganglioside: conversion from inhibitory to excitatory mode. Wu G, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):341–6

Simultaneous functional expression of swelling and forskolin-activated chloride currents in primary cultures of rabbit distal convoluted tubule. Rubera I, et al. **C R Acad Sci III** 1997 Mar;320(3):223–32

Effect of forskolin on bradykinin-induced calcium mobilization in cultured canine tracheal smooth muscle cells. Luo SF, et al. **Cell Signal** 1997 Feb;9(2):159–67

Difference in behavior between responses to forskolin and general odorants in turtle vomeronasal organ. Taniguchi M, et al. **Chem Senses** 1996 Dec;21(6):763–71

Ca2+ and Cl(-)-dependence of the turtle olfactory response to odorants and forskolin. Kashiwayanagi M, et al. **Comp Biochem Physiol A Physiol** 1996 Sep;115(1):43–52

Downregulation of TGF-beta 1 gene expression in anterior pituitary cells treated with forskolin. Pastorcic M, et al. **Cytokine** 1997 Feb;9(2):106–11

Forskolin treatment directs steroid production towards the androgen pathway in the NCI-H295R adrenocortical tumour cell line. Cobb VJ, et al. **Endocr Res** 1996 Nov; 22(4):545–50

Activation of phospholipase D in FRTL-5 thyroid cells by forskolin and dibutyryl-cyclic adenosine monophosphate. Ginsberg J, et al. **Endocrinology** 1997 Sep;138(9):3645–51

Growth factor-induced transcription via the serum response element is inhibited by cyclic adenosine 3',5'-monophosphate in MCF-7 breast cancer cells [see comments] Lowe WL Jr, et al. **Endocrinology** 1997 Jun; 138(6):2219–26. Comment in: Endocrinology 1997 Jun;138(6):2217–8.

Consequences of transient focal cerebral ischaemia for second messenger and neurotransmitter binding in the rat: quantitative autoradiographic analysis of forskolin, dopamine D1 receptor binding and cerebral blood flow changes. Gartshore G, et al. **Eur J Neurosci** 1996 Mar; 8(3):486–93

Induction of tyrosine hydroxylase by forskolin: modulation with age. Tümer N, et al. **Eur J Pharmacol** 1997 Apr 11; 324(1):57–62

Comparative inotropic effect of calcium, endothelin-1, and forskolin on ferret papillary muscles during acidosis. Ishiguro Y, et al. **Fundam Clin Pharmacol** 1997;11(3):215–20

Potentiation of the relaxing action of isoproterenol by forskolin in rabbit aortic rings: the involvement of beta 2-adrenoceptors. Satake N, et al. **Gen Pharmacol** 1997 May; 28(5):753–6

Bovine serum albumin and lysophosphatidic acid stimulate calcium mobilization and reversal of cAMP-induced

stellation in rat spinal cord astrocytes. Manning TJ Jr, et al. **Glia** 1997 Jun;20(2):163–72

Steroid-regulated growth of DDT1MF-2 cells is profoundly influenced by culture conditions. Lamb DJ, et al. **In Vitro Cell Dev Biol Anim** 1995 Dec;31(11):871–5

Drug-induced reversion of progression phenotype is accompanied by reversion of AP-1 phenotype in JB6 cells. Lavrovsky V, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr; 32(4):234–7

Bisecting GlcNAc structures act as negative sorting signals for cell surface glycoproteins in forskolin-treated rat hepatoma cells. Sultan AS, et al. **J Biol Chem** 1997 Jan 31;272(5):2866–72

The rat D4 dopamine receptor couples to cone transducin (Galphat2) to inhibit forskolin-stimulated cAMP accumulation. Yamaguchi I, et al. **J Biol Chem** 1997 Jun 27;272(26):16599–602

Long-term effect of forskolin on the activation of adenylyl cyclase in astrocytes. el Jamali A, et al. **J Neurochem** 1996 Dec;67(6):2532–9

Neurotensin receptor down-regulation induced by dexamethasone and forskolin in rat hypothalamic cultures is mediated by endogenous neurotensin. Scarcériaux V, et al. **J Neuroendocrinol** 1996 Aug;8(8):587–93

Differential regulation of cytokine-induced major histocompatibility complex class II expression and nitric oxide release in rat microglia and astrocytes by effectors of tyrosine kinase, protein kinase C, and cAMP. Hellendall RP, et al. **J Neuroimmunol** 1997 Apr;74(1-2):19–29

Forskolin enhancement of opioid currents in rat locus coeruleus neurons. Osborne PB, et al. **J Neurophysiol** 1996 Sep;76(3):1559–65

Concurrent stimulation of cannabinoid CB1 and dopamine D2 receptors augments cAMP accumulation in striatal neurons: evidence for a Gs linkage to the CB1 receptor. Glass M, et al. **J Neurosci** 1997 Jul 15;17(14):5327–33

Modulation of dog atrial swelling-induced chloride current by cAMP: protein kinase A-dependent and -independent pathways. Du XY, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):111–22

Interactions between neuropeptide Y and the adenylate cyclase pathway in rat mesenteric small arteries: role of membrane potential. Prieto D, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):281–92

In vitro and in vivo anti-leukemic efficacy of cyclic AMP modulating agents against human leukemic B-cell precursors. Myers DE, et al. **Leuk Lymphoma** 1996 Jul; 22(3-4):259–64

Wortmannin converts insulin but not oxytocin from an antilipolytic to a lipolytic agent in the presence of forskolin. Fain JN, et al. **Metabolism** 1997 Jan;46(1):62–6

G proteins, adenylyl cyclase and related phosphoproteins in the developing rat heart. Bartel S, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:31–8

Gene expression of NOR-1, a neuron-derived orphan receptor, is inducible in neuronal and other cell lineages in culture. Bandoh S, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):227–30

Molecular cloning of c-jun and c-fos cDNAs from porcine anterior pituitary and their involvement in gonadotropin-releasing hormone stimulation [published erratum appears in Mol Cell Endocrinol 1996 Aug 30;122(1):113–4] Chung HO, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):75–82

Mutations to forskolin resistance result in loss of adrenocorticotropin receptors and consequent reductions in levels of G protein alpha-subunits. Qiu R, et al. **Mol Endocrinol** 1996 Dec;10(12):1708–18

Cyclic AMP-independent inhibition of cardiac calcium current by forskolin. Asai T, et al. **Mol Pharmacol** 1996 Nov;50(5):1262–72

GTP gamma S and forskolin-stimulated adenylyl cyclase activity in post-mortem brain from depressed suicides and controls. Lowther S, et al. **Mol Psychiatry** 1996 Dec; 1(6):470–7

Roles of protein kinase A and C in spontaneous maturation and in forskolin or 3-isobutyl-1-methylxanthine maintained meiotic arrest of bovine oocytes. Rose-Hellekant TA, et al. **Mol Reprod Dev** 1996 Jun;44(2):241–9

Proliferation in the auditory receptor epithelium mediated by a cyclic AMP-dependent signaling pathway [see comments] Navaratnam DS, et al. **Nat Med** 1996 Oct; 2(10):1136–9. Comment in: Nat Med 1996 Oct;2(10):1082–3.

5HT1A receptor agonist differentially increases cyclic AMP concentration in intact and lesioned goldfish retina. In vitro inhibition of outgrowth by forskolin. Urbina M, et al. **Neurochem Int** 1996 Nov;29(5):453–60

Differential effects of forskolin and phorbol-13-myristate injected intrathecally or intracerebroventricularly on antinociception induced by morphine or beta-endorphin administered intracerebroventricularly in the mouse. Suh HW, et al. **Neuropeptides** 1996 Apr;30(2):177–85

The pharmacology of adenylyl cyclase modulation by GABAB receptors in rat brain slices. Knight AR, et al. **Neuropharmacology** 1996 Jun;35(6):703–12

Activation of the adenylate cyclase-dependent protein kinase pathway increases high affinity glutamate uptake into rat striatal synaptosomes. Pisano P, et al. **Neuropharmacology** 1996 May;35(5):541–7

Regulation of stimulatory adenylyl cyclase signaling during forskolin-induced differentiation of mouse neuroblastoma x rat glioma (NG108-15) cells. Ammer H, et al. **Neurosci Lett** 1997 Jul 25;230(3):143–6

Cyclic AMP-dependent modulation of N- and Q-type Ca2+ channels expressed in Xenopus oocytes. Fukuda K, et al. **Neurosci Lett** 1996 Oct 11;217(1):13–6

Role of cerebellar granule cell-specific GABAA receptor subtype in the differential sensitivity of [3H]ethynylbicycloorthobenzoate binding to GABA mimetics. Huang J, et al. **Neurosci Lett** 1997 Apr 4; 225(2):85–8

Nerve growth factor and forskolin prevent H2O2-induced apoptosis in PC12 cells by glutathione independent mechanism. Kamata H, et al. **Neurosci Lett** 1996 Jul 19; 212(3):179–82

Forskolin evokes extracellular adenosine accumulation in rat cortical cultures. Rosenberg PA, et al. **Neurosci Lett** 1996 Jun 14;211(1):49–52

Phorbol ester and forskolin suppress the presynaptic inhibitory action of group-II metabotropic glutamate receptor at rat hippocampal mossy fibre synapse. Kamiya H, et al. **Neuroscience** 1997 Sep;80(1):89–94

The amiloride inhibitable Na+ conductance of rat colonic crypt cells is suppressed by forskolin. Ecke D, et al. **Pflugers Arch** 1996 Apr;431(6):984–6

Effects of glucose, forskolin and tolbutamide on membrane potential and insulin secretion in the insulin-secreting cell line INS-1. Ullrich S, et al. **Pflugers Arch** 1996 Aug; 432(4):630–6

Modulation of the forskolin-induced cyclic AMP accumulation by corticosterone. Czyrak A. **Pol J Pharmacol** 1996 Nov-Dec;48(6):595–9

Evaluation of cyclic AMP accumulation in EBV-transformed human B-lymphocytes: effects of dopamine agonists, isoproterenol, prostaglandin E1, cholera toxin, forskolin, and phorbol 12-myristate-13 acetate. Natsukari N, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):99–108

Increased cyclic AMP response to forskolin in Epstein-Barr virus-transformed human B-lymphocytes derived from schizophrenics. Natsukari N, et al. **Psychopharmacology (Berl)** 1997 Apr;130(3):235–41

Cholecystokinin (CCK) release from rat brain slices in vitro is enhanced by agents which elevate intracellular cAMP. Beinfeld MC. **Regul Pept** 1996 Dec 3;67(2):75–7

Interaction between adrenergic agonists and forskolin on adenylate cyclase activity in the rabbit proximal tubule. Beck JS, et al. **Ren Physiol Biochem** 1995 Sep-Oct; 18(5):231–6

Discrepancy between inotropic response and cyclic AMP production induced by isoprenaline and forskolin in rat ventricle strips. Martinez E, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):157–67

Aquaporins and ion conductance [letter; comment] Agre P, et al. **Science** 1997 Mar 7;275(5305):1490; discussion 1492 . Comment on: Science 1996 Aug 30;273(5279):1216–8.

Aquaporins and ion conductance [letter; comment] Fischbarg J, et al. **Science** 1997 Mar 7;275(5305):1491–2; discussion 1492. Comment on: Science 1996 Aug 30;273(5279):1216–8.

Aquaporins and ion conductance [letter; comment] Patil RV, et al. **Science** 1997 Mar 7;275(5305):1492; discussion 1492 . Comment on: Science 1996 Aug 30;273(5279):1216–8.

Aquaporins and ion conductance [letter; comment] Sasaki S, et al. **Science** 1997 Mar 7;275(5305):1490–1; discussion 1492. Comment on: Science 1996 Aug 30;273(5279):1216–8.

THERAPEUTIC USE

A preliminary study of possible psychoactive effects of intravenous forskolin in depressed and schizophrenic patients. Short communication. Bersudsky Y, et al. **J Neural Transm** 1996;103(12):1463–7

Influence of cardiac dysfunction on fast sodium current regulation by Forskolin. Kirstein M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):2018–22

FORSSMAN ANTIGEN

CHEMISTRY

Transferred nuclear Overhauser enhancement (NOE) and rotating-frame NOE experiments reflect the size of the bound segment of the Forssman pentasaccharide in the binding site of Dolichos biflorus lectin. Casset F, et al. **Eur J Biochem** 1997 Feb 15;244(1):242–50

[Synthesis of terminal disaccharide of Forssman antigen and its analogs as spacer glycosides and free disaccharides] Ovchinnikova TV, et al. **Bioorg Khim** 1997 Jan;23(1):61–74 (Eng. Abstr.) **(Rus)**

GENETICS

Expression cloning of Forssman glycolipid synthetase: a novel member of the histo-blood group ABO gene family. Haslam DB, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10697–702

METABOLISM

Forssman disaccharide is the specific ligand of a galectin from the sponge Geodia cydonium but does not mediate its binding to nuclear protein np56. Hanisch FG, et al. **Glycobiology** 1996 Apr;6(3):321–36

FOS-ASSOCIATED PROTEIN P39 see **PROTO-ONCOGENE PROTEINS C-JUN**

FOS B PROTEIN see **PROTO-ONCOGENE PROTEINS C-FOS**

FOS GENES see **GENES, FOS**

FOS ONCOGENE PROTEINS see **ONCOGENE PROTEINS V-FOS**

FOS PROTO-ONCOGENE PROTEINS see **PROTO-ONCOGENE PROTEINS C-FOS**

FOS-RELATED ANTIGENS see **PROTO-ONCOGENE PROTEINS C-FOS**

FOSCARNET

ADMINISTRATION & DOSAGE

Combination antiviral therapy for cytomegalovirus disease in patients with AIDS. Cline JJ, et al. **Ann Pharmacother** 1997 Sep;31(9):1080–2 (14 ref.)

Combined foscarnet -ganciclovir treatment for cytomegalovirus infections after allogeneic hemopoietic stem cell transplantation (Hsct). Bacigalupo A, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:110–4

Cytomegalovirus retinitis: decreased risk of bilaterality with increased use of systemic treatment. Swiss HIV Cohort Study Group. Stalder N, et al. **Clin Infect Dis** 1997 Apr; 24(4):620–4

Foscarnet 5 versus 7 days a week treatment for severe gastrointestinal CMV disease in HIV-infected patients. Salzberger B, et al. **Infection** 1996 Mar-Apr;24(2):121–4

Concurrent ganciclovir and foscarnet treatment for cytomegalovirus encephalitis and retinitis in an infant with acquired immunodeficiency syndrome: case report and review. Zaknun D, et al. **Pediatr Infect Dis J** 1997 Aug; 16(8):807–11

ADVERSE EFFECTS

Foscarnet-induced hypercalcaemia in AIDS [letter] Gayet S, et al. **AIDS** 1997 Jul;11(8):1068–70

Minimising the dosage-limiting toxicities of foscarnet induction therapy. Jayaweera DT. **Drug Saf** 1997 Apr; 16(4):258–66 (40 ref.)

Nephrogenic diabetes insipidus associated with foscarnet--a case report[letter] Conn J, et al. **J Antimicrob Chemother** 1996 Jun;37(6):1179–81

[Genital ulcers from foscarnet: three cases (letter)] Luelmo J, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):318 **(Spa)**

ANALOGS & DERIVATIVES

Lipid prodrugs of phosphonoacids: greatly enhanced antiviral activity of 1-O-octadecyl-sn-glycero-3-phosphonoformate in HIV-1, HSV-1 and HCMV-infected cells, in vitro. Hostetler KY, et al. **Antiviral Res** 1996 Jun;31(1-2):59–67

Synthesis and in vitro activity of long-chain 5'-O-[(alkoxycarbonyl)phosphinyl]-3'-azido-3'-deoxythymidines against wild-type and AZT- and foscarnet-resistant strains of HIV-1. Rosowsky A, et al. **J Med Chem** 1997 Aug 1;40(16):2482–90

CONTRAINDICATIONS

Rapid development of renal insufficiency with the simultaneous administration of amphotericin B and foscarnet. Zaman MM, et al. **Clin Infect Dis** 1996 Feb; 22(2):378

PHARMACOKINETICS

Relationship between foscarnet exposure, baseline cytomegalovirus (CMV) blood culture and the time to progression of CMV retinitis in HIV-positive patients. Drusano GL, et al. **AIDS** 1996 Sep;10(10):1113–9

Disposition of foscarnet during peritoneal dialysis. Alexander AC, et al. **Ann Pharmacother** 1996 Oct;30(10):1106–9

Treatment of gastrointestinal cytomegalovirus infection with twice-daily foscarnet: a pilot study of safety, efficacy, and pharmacokinetics in patients with AIDS. Dieterich DT, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1226–30

Renal excretion and pharmacokinetics of foscarnet in HIV sero-positive patients: effect of probenecid pretreatment. Noormohamed FH, et al. **Br J Clin Pharmacol** 1997 Jan; 43(1):112–5

Comparison of pharmacokinetics and dynamics of two dosage regimens of foscarnet in AIDS patients with Cytomegalovirus retinitis. Castelli F, et al. **Eur J Clin Pharmacol** 1997;52(5):397–401

In vitro evaluation of polymeric matrix and porous biodegradable reservoir devices for slow-release drug delivery. Peyman GA, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):384–91

PHARMACOLOGY

Clonal selection of HIV type 1 variants associated with resistance to foscarnet in vitro: confirmation by molecular evolutionary analysis. Nakano T, et al. **AIDS Res Hum Retroviruses** 1997 May 1;13(7):563–73

Effect of foscarnet on quantities of cytomegalovirus and

human immunodeficiency virus in blood of persons with AIDS. Balfour HH Jr, et al.
Antimicrob Agents Chemother 1996 Dec;40(12):2721–6

Interaction between ganciclovir and foscarnet as inhibitors of duck hepatitis B virus replication in vitro. Civitico G, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1180–5

Synergistic inhibition of human immunodeficiency virus isolates (including 3'-azido-3'-deoxythymidine-resistant isolates) by foscarnet in combination with 2',3'-dideoxyinosine or 2',3'-dideoxycytidine. Palmer S, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1285–8

Antiviral susceptibility testing–flow cytometric analysis (AST–FCA) for the detection of cytomegalovirus drug resistance. Lipson SM, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):123–9

Use of phosphonocarboxylic acids as inhibitors of sodium–phosphate cotransport. Loghman-Adham M.
Gen Pharmacol 1996 Mar;27(2):305–12 (92 ref.)

Phosphate excretion and phosphate transporter messenger RNA in uremic rats treated with phosphonoformic acid. Brooks DP, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1440–5

Zidovudine resistance is suppressed by mutations conferring resistance of human immunodeficiency virus type 1 to foscarnet. Tachedjian G, et al. **J Virol** 1996 Oct; 70(10):7171–81

A method for detection of HHV–6 antigens and its use for evaluating antiviral drugs. Yoshida M, et al.
J Virol Methods 1996 Apr 26;58(1–2):137–43

Antiviral efficacy and toxicity of ribavirin and foscarnet each given alone or in combination in the murine AIDS model. Omar RF, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):140–51

[Combined activity of meliacin and foscarnet against different strains of herpes simplex virus type 1 using a three–dimensional model] Barquero AA, et al.
Rev Argent Microbiol 1997 Jan–Mar;29(1):32–7 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Convenient twice daily foscarnet in induction therapy of AIDS–associated cytomegalovirus retinitis. The Foscarnet Italian Study Group [letter] Carosi G, et al. **AIDS** 1997 Feb;11(2):258–60

Relationship between foscarnet exposure, baseline cytomegalovirus (CMV) blood culture and the time to progression of CMV retinitis in HIV–positive patients. Drusano GL, et al. **AIDS** 1996 Sep;10(10):1113–9

Anti–herpesvirus treatment and risk of Kaposi's sarcoma in HIV infection. Royal Free/Chelsea and Westminster Hospitals Collaborative Group. Mocroft A, et al. **AIDS** 1996 Sep;10(10):1101–5

Re–evaluation of time to progression of foscarnet salvage therapy for cytomegalovirus retinitis in AIDS patients clinically resistant to ganciclovir [letter] Mueller AJ, et al. **AIDS** 1997 Mar;11(3):397–9

Early foscarnet failure in herpes simplex virus infection in a patient with AIDS [letter] Segal BH, et al. **AIDS** 1997 Mar 15;11(4):552–3

Topical foscarnet for aciclovir–resistant mucocutaneous herpes infections in AIDS [letter] Smith NA, et al.
AIDS 1997 Feb;11(2):254–5

Rhegmatogenous retinal detachment in patients with cytomegalovirus retinitis: the Foscarnet–Ganciclovir Cytomegalovirus Retinitis Trial. The Studies of Ocular Complications of AIDS (SOCA) Research Group in Collaboration with the AIDS Clinical Trials Group (ACTG). **Am J Ophthalmol** 1997 Jul;124(1):61–70

Foscarnet–Ganciclovir Cytomegalovirus Retinitis Trial: 5. Clinical features of cytomegalovirus retinitis at diagnosis. Studies of ocular complications of AIDS Research Group in collaboration with the AIDS Clinical Trials Group [see comments] **Am J Ophthalmol** 1997 Aug;124(2):141–57. Comment in: Am J Ophthalmol 1997 Aug;124(2):227–33.

Treatment of gastrointestinal cytomegalovirus infection with twice–daily foscarnet: a pilot study of safety, efficacy, and pharmacokinetics in patients with AIDS. Dieterich DT, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1226–30

Quantitative systemic and local evaluation of the antiviral effect of ganciclovir and foscarnet induction treatment on human cytomegalovirus gastrointestinal disease of patients with AIDS. Italian Foscarnet GID Study Group. Gerna G, et al. **Antiviral Res** 1997 Mar;34(1):39–50

Successful foscarnet therapy for mucocutaneous infection with herpes simplex virus in a recipient after unrelated bone marrow transplantation. Iino T, et al.
Bone Marrow Transplant 1996 Dec;18(6):1185–8

Foscarnet for pre–emptive therapy of CMV infection detected by a leukocyte–based nested PCR in allogeneic bone marrow transplant patients. Ljungman P, et al.
Bone Marrow Transplant 1996 Sep;18(3):565–8

Foscarnet therapy for cytomegalovirus infection after allogeneic bone marrow transplantation. Chang J, et al.
Clin Infect Dis 1996 Mar;22(3):583–4

Foscarnet therapy for acyclovir–resistant herpes simplex virus 1 infection in allogeneic bone marrow transplant recipients. Naik HR, et al. **Clin Infect Dis** 1995 Dec; 21(6):1514–5

Cytomegalovirus polyradiculopathy treated successfully with foscarnet [letter] Corral I, et al.
Eur J Clin Microbiol Infect Dis 1996 May;15(5):428–9 (10 ref.)

Treatment of clinically resistant cytomegalovirus retinitis in AIDS patients: combination of intravenous ganciclovir and intravitreal foscarnet. Pivetti–Pezzi P, et al.
Eur J Ophthalmol 1995 Oct–Dec;5(4):199–203

Intravitreal and systemic foscarnet in the treatment of AIDS–related CMV retinitis. Tognon MS, et al.
Eur J Ophthalmol 1996 Apr–Jun;6(2):179–82

Management strategies for patients with cytomegalovirus retinitis. Hardy WD.
J Acquir Immune Defic Syndr Hum Retrovirol 1997;14 Suppl 1:S7–12 (19 ref.)

Changes in HIV–1 RNA plasma level in patients treated with foscarnet [letter] Segondy M, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1997 Jan 1;14(1):79–80

Cytomegalovirus (CMV) culture results, drug resistance, and clinical outcome in patients with AIDS and CMV retinitis treated with foscarnet or ganciclovir. Studies of Ocular Complications of AIDS (SOCA) in collaboration with the AIDS Clinical Trial Group. **J Infect Dis** 1997 Jul; 176(1):50–8

Combined ganciclovir and foscarnet in pediatric cytomegalovirus retinitis. Sastry SM, et al.
J Natl Med Assoc 1996 Oct;88(10):661–2

Some antivirals may lower Kaposi's sarcoma risk [news] Larkin M. **Lancet** 1996 Sep 21;348(9030):812

Cytomegalovirus papillitis in patients with acquired immune deficiency syndrome. Visual prognosis of patients treated with ganciclovir and/or foscarnet. Patel SS, et al.
Ophthalmology 1996 Sep;103(9):1476–82

Combined intravenous ganciclovir and foscarnet for children with recurrent cytomegalovirus retinitis. Walton RC, et al. **Ophthalmology** 1995 Dec;102(12):1865–70

The treatment of AIDS–related cytomegalovirus disease with ganciclovir and foscarnet association. Three case reports. Manfredi R, et al. **Recenti Prog Med** 1996 Nov;87(11):545–8

Use of phosphonoformic acid to induce phosphaturia in chronic renal failure in rats. Loghman–Adham M, et al.
Ren Fail 1996 Nov;18(6):855–66

Successful treatment of progressive outer retinal necrosis syndrome. Spaide RF, et al. **Retina** 1996;16(6):479–87

Combined foscarnet–ganciclovir treatment for cytomegalovirus infections after allogeneic hemopoietic stem cell transplantation. Bacigalupo A, et al.
Transplantation 1996 Aug 15;62(3):376–80

Cytomegalovirus induced up–regulation of LFA–3 (CD58) and ICAM–1 (CD54) is a direct viral effect that is not prevented by ganciclovir or foscarnet treatment. Craigen JL, et al. **Transplantation** 1996 Oct 27;62(8):1102–8

[Foscarnet therapy for ganciclovir–refractory cytomegalovirus hepatitis in a patient who underwent bone marrow transplantation from an unrelated donor] Fujisaki T, et al. **Rinsho Ketsueki** 1997 Feb;38(2):142–5 (Eng. Abstr.) **(Jpn)**

[Long term survival in an HIV–immunosuppressed patient treated with foscarnet] Soriano V, et al.
An Med Interna 1996 Aug;13(8):387–9 (Eng. Abstr.) **(Spa)**

[Prophylaxis secondary to retinitis by CMV in patients with AIDS: the efficacy of an intermittent schedule of 3 days/week] Mallolas J, et al.
Enferm Infecc Microbiol Clin 1997 Feb;15(2):61–4 (Eng. Abstr.) **(Spa)**

TOXICITY

In vivo toxicity of foscarnet and zidovudine given alone or in combination. Omar RF, et al.
Toxicol Appl Pharmacol 1996 Aug;139(2):324–32

FOSENOPRIL see **FOSINOPRIL**

FOSFOMYCIN

ANALOGS & DERIVATIVES

Fosfomycin tromethamine. A review of its antibacterial activity, pharmacokinetic properties and therapeutic efficacy as a single–dose oral treatment for acute uncomplicated lower urinary tract infections. Patel SS, et al. **Drugs** 1997 Apr;53(4):637–56 (106 ref.)

Cloning of a gene from Escherichia coli that confers resistance to fosmidomycin as a consequence of amplification. Fujisaki S, et al. **Gene** 1996 Oct 10; 175(1–2):83–7

CHEMISTRY

Structure of UDP–N–acetylglucosamine enolpyruvyl transferase, an enzyme essential for the synthesis of bacterial peptidoglycan, complexed with substrate UDP–N–acetylglucosamine and the drug fosfomycin. Skarzynski T, et al. **Structure** 1996 Dec 15;4(12):1465–74

METABOLISM

Crystal structure of UDP–N–acetylglucosamine enolpyruvyltransferase, the target of the antibiotic fosfomycin. Schönbrunn E, et al. **Structure** 1996 Sep 15; 4(9):1065–75

PHARMACOKINETICS

Ocular penetration kinetics of fosfomycin administered as a one–hour infusion. Forestier F, et al. **Eur J Ophthalmol** 1996 Apr–Jun;6(2):137–42

PHARMACOLOGY

Immunomodulating effect of fosfomycin on gut–derived sepsis caused by Pseudomonas aeruginosa in mice. Matsumoto T, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):308–13

Modulatory effect of antibiotics on cytokine production by human monocytes in vitro. Morikawa K, et al.
Antimicrob Agents Chemother 1996 Jun;40(6):1366–70

The stimulating effect of fosfomycin, an antibiotic in common use in Japan, on the production/release of verotoxin–1 from enterohaemorrhagic Escherichia coli O157:H7 in vitro. Yoh M, et al. **Epidemiol Infect** 1997 Aug;119(1):101–3

In vitro activity of fosfomycin combined with ceftazidime, imipenem, amikacin, and ciprofloxacin against Pseudomonas aeruginosa. Tessier F, et al.
Eur J Clin Microbiol Infect Dis 1997 Feb;16(2):159–62

Activity of fosfomycin in a rabbit model of experimental pneumococcal meningitis. Nau R, et al.
J Antimicrob Chemother 1995 Dec;36(6):997–1004

Effects of combination of benzylpenicillin and fosfomycin on penicillin–resistant Streptococcus pneumoniae. Kikuchi K, et al. **Microb Drug Resist** 1995 Summer;1(2):185–9

[Sensitivity to fosfomycin of multiresistant serotype 012 Pseudomonas aeruginosa. Multicenter study] Dubrous P, et al. **Pathol Biol (Paris)** 1997 Jun;45(6):472–8 (Eng. Abstr.) **(Fre)**

[Mechanism of fosfomycin–resistance in clinical isolates] O'Hara K, et al. **Jpn J Antibiot** 1996 Jun;49(6):533–43 (61 ref.) **(Jpn)**

[Isolation and characterization of isogenic transductants related with the resistance from in vitro fosfomycin resistant strains] Tsuruoka T, et al. **Jpn J Antibiot** 1996 Sep;49(9):892–8 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Cisplatin–induced nephrotoxicity and the protective effect of fosfomycin on it as demonstrated by using a crossover study of urinary metabolite levels. Hayashi M, et al.
Acta Obstet Gynecol Scand 1997 Jul;76(6):590–5

Transitional concentration of antibacterial agent to the maxillary sinus via a nebuliser. Kondo H, et al.
Acta Otolaryngol Suppl (Stockh) 1996;525:64–7

Fosfomycin for urinary tract infections.
Med Lett Drugs Ther 1997 Jul 18;39(1005):66–8

FOSINOPRIL

ADMINISTRATION & DOSAGE

Use of the factorial design and quadratic response surface models to evaluate the fosinopril and hydrochlorothiazide combination therapy in hypertension. Pool JL, et al.
Am J Hypertens 1997 Jan;10(1):117–23

Fosinopril: a reappraisal of its pharmacology and therapeutic efficacy in essential hypertension. Wagstaff AJ, et al.
Drugs 1996 May;51(5):777–91 (75 ref.)

Effects of fosinopril on the blood pressure and lipid profile of patients undergoing heart transplantation. Almenar L, et al. **J Heart Lung Transplant** 1997 Apr;16(4):454–9

Effects of atenolol as add–on therapy to fosinopril in heart failure. Pacher R, et al. **Wien Klin Wochenschr** 1997 Apr 11;109(7):232–8

ADVERSE EFFECTS

Increased serum lithium concentration secondary to treatment with tiaprofenic acid and fosinopril. Alderman CP, et al. **Ann Pharmacother** 1996 Dec;30(12):1411–3

Scleroderma and eosinophilic fasciitis in patients taking fosinopril [letter] Biasi D, et al. **J Rheumatol** 1997 Jun; 24(6):1242

PHARMACOKINETICS

Fosinopril. Clinical pharmacokinetics and clinical potential. Shionoiri H, et al. **Clin Pharmacokinet** 1997 Jun; 32(6):460–80 (95 ref.)

PHARMACOLOGY

Perfusion–independent effect of bradykinin and fosinoprilate on glucose transport in Langendorff rat hearts. Rett K, et al. **Am J Cardiol** 1997 Aug 4;80(3A):143A–147A

Long–term angiotensin–converting enzyme inhibition with fosinopril improves depressed responsiveness to Ca2+ in myocytes from aortic–banded rats. Kagaya Y, et al.
Circulation 1996 Dec 1;94(11):2915–22

Fosinopril. A review of its pharmacology and clinical efficacy in the management of heart failure. Davis R, et al. **Drugs** 1997 Jul;54(1):103–16 (53 ref.)

Fosinopril: a reappraisal of its pharmacology and therapeutic efficacy in essential hypertension. Wagstaff AJ, et al.
Drugs 1996 May;51(5):777–91 (75 ref.)

Fosinopril reduces ADP–induced platelet aggregation in hypertensive patients. Keidar S, et al.
J Cardiovasc Pharmacol 1996 Feb;27(2):183–6

The angiotensin converting enzyme inhibitors fosinopril and enalapril differ in their central nervous effects in humans. Derad I, et al. **J Hypertens** 1996 Nov;14(11):1309–15

[Plausible pharmacologic interaction between fosinopril and

acenocoumarol (letter)] de Tomás ME, et al. **Med Clin (Barc)** 1997 May 17;108(19):757 **(Spa)**

THERAPEUTIC USE

Effects of cicaprost and fosinopril on the progression of rat diabetic nephropathy. Villa E, et al. **Am J Hypertens** 1997 Feb;10(2):202–8

Plasma endothelin in congestive heart failure: effect of the ACE inhibitor, fosinopril. Galatius-Jensen S, et al. **Cardiovasc Res** 1996 Dec;32(6):1148–54

Fosinopril. A review of its pharmacology and clinical efficacy in the management of heart failure. Davis R, et al. **Drugs** 1997 Jul;54(1):103–16 (53 ref.)

Fosinopril: a reappraisal of its pharmacology and therapeutic efficacy in essential hypertension. Wagstaff AJ, et al. **Drugs** 1996 May;51(5):777–91 (75 ref.)

Effect of angiotensin-converting enzyme inhibition in HIV-associated nephropathy. Burns GC, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1140–6

Fosinopril versus enalapril in the treatment of hypertension: a double-blind study in 195 patients. Hansson L, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):1–5

Fosinopril improves regulation of vascular tone in mesenteric bed of diabetic rats. Olbrich A, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):187–94

[Fosinopril in the cardiovascular management of elderly patients] **Fortschr Med Suppl** 1996;175:1–8 **(Ger)**

[Valley/peak ratio and pressure changes during treatment with fosinopril in hypertensive elderly patients] Cicconetti P, et al. **Clin Ter** 1996 Jul–Aug;147(7–8):359–64 (Eng. Abstr.) **(Ita)**

[Antihypertensive effect of fosinopril in mild hypertension] Pizarro M, et al. **Rev Port Cardiol** 1996 Jun;15(6):495–7, 460 (Eng. Abstr.) **(Por)**

FOSSIL FUELS

Analysis of sampling strategies for estimating annual average indoor NO2 concentrations in residences with gas ranges. Wilkes CR, et al. **J Air Waste Manag Assoc** 1996 Sep; 46(9):853–60

Nitrogen dioxide, gas heating and respiratory illness [editorial] Pilotto LS, et al. **Med J Aust** 1997 Sep 15; 167(6):295–6

[Accidents caused by gas equipment and carbon monoxide poisoning in dwellings of the Lombardy region in the period October 1955–April 1996] Carreri V, et al. **Ann Ig** 1996 Sep–Oct;8(5):579–91 (Eng. Abstr.) **(Ita)**

[Functional state of the temperature analyzer of operators in the gas condensation industry under conditions of hot climate] Khudaĭberdiev MD, et al. **Fiziol Cheloveka** 1997 Jan–Feb;23(1):20–4 **(Rus)**

[The work conditions and health status of women working in the gas-processing industry] Setko NP, et al. **Gig Sanit** 1997 Mar–Apr;(2):14–6 **(Rus)**

[Sanitary protection zones in major gas chemical enterprises] Kuznetsov IE, et al. **Med Tr Prom Ekol** 1996;(6):7–10 (Eng. Abstr.) **(Rus)**

[The current problems in protecting the health of the population in the oil- and gas-producing regions of Tyumen Province] Kutsenko GI, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Nov–Dec;(6):6–10 (Eng. Abstr.) **(Rus)**

[A health-promoting approach to the study of morbidity with temporary loss of work capacity among oil workers in western Siberia] Ovcharov EA. **Probl Sotsialnoi Gig Istor Med** 1996 Nov–Dec;(6):16–9 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Encephalopathy and peripheral neuropathy following carbon monoxide poisoning from a propane-fueled vehicle. Kelafant GA. **Am J Ind Med** 1996 Dec;30(6):765–8

[Cancer incidence among active male workers at Electricite de France-Gaz de France] Chevalier A, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):25–36 (Eng. Abstr.) **(Fre)**

ANALYSIS

Estimate of methane emissions from the U.S. natural gas industry. Kirchgessner DA, et al. **Chemosphere** 1997 Sep; 35(6):1365–90

FOSSILS

Reply to Stoneking: ancient DNA—how do you really know when you have it? [letter; comment] Cooper A. **Am J Hum Genet** 1997 Apr;60(4):1001–3. Comment on: Am J Hum Genet 1995 Dec;57(6):1259–62.

Twenty-five thousand-year-old triple burial from Dolní Věstonice: an ice-age family? Alt KW, et al. **Am J Phys Anthropol** 1997 Jan;102(1):123–31

Endocranial hyperostosis in Sangiran 2, Gibraltar 1, and Shanidar 5. Antón SC. **Am J Phys Anthropol** 1997 Jan; 102(1):111–22

Developmental age and taxonomic affinity of the Mojokerto child, Java, Indonesia. Antón SC. **Am J Phys Anthropol** 1997 Apr;102(4):497–514

Brief communication: estimates of some demographic parameters in a Neolithic rock-cut chamber (approximately 2000 BC) using iterative techniques for aging and demographic estimators. Bocquet-Appel JP, et al. **Am J Phys Anthropol** 1997 Apr;102(4):569–75

Immunospecificity of albumin detected in 1.6 million-year-old fossils from Venta Micena in Orce, Granada, Spain. Borja C, et al. **Am J Phys Anthropol** 1997 Aug;103(4):433–41

Brief communication: evidence of pathology on the frontal bone from Gongwangling. Caspari R. **Am J Phys Anthropol** 1997 Apr;102(4):565–8

Brief communication: new primate remains from the Miocene of Namibia, southern Africa. Conroy GC, et al. **Am J Phys Anthropol** 1996 Mar;99(3):487–92

Allometric patterns of cranial bone thickness in fossil hominids. Gauld SC. **Am J Phys Anthropol** 1996 Jul; 100(3):411–26

Reappraisal of the postcranium of Hadropithecus (Primates, Indroidea). Godfrey LR, et al. **Am J Phys Anthropol** 1997 Aug;103(4):529–56

Ecogeographical patterning and stature prediction in fossil hominids: component on M.R. Feldesman and R.L. Fountain, American Journal of Physical Anthropology (1996) 100:207–224. Holliday TW, et al. **Am J Phys Anthropol** 1997 May;103(1):137–40

Brief communication: when Adam delved ... an activity-related lesion in three human skeletal populations. Knüsel CJ, et al. **Am J Phys Anthropol** 1996 Jul; 100(3):427–34

Dietary inferences through buccal microwear analysis of middle and upper Pleistocene human fossils. Lalueza C, et al. **Am J Phys Anthropol** 1996 Jul;100(3):367–87

Chin morphology and sexual dimorphism in the fossil hominid mandible sample from Klasies River Mouth. Lam YM, et al. **Am J Phys Anthropol** 1996 Aug;100(4):545–57

How and why humans grow thin skulls: experimental evidence for systemic cortical robusticity. Lieberman DE. **Am J Phys Anthropol** 1996 Oct;101(2):217–36

An adolescent female Neandertal mandible from Montgaudier Cave, Charente, France. Mann A, et al. **Am J Phys Anthropol** 1997 Aug;103(4):507–27

Functional morphology of the postcranium and locomotor behavior of Neosaimiri fieldsi, a Saimiri-like Middle Miocene platyrrhine. Nakatsukasa M, et al. **Am J Phys Anthropol** 1997 Apr;102(4):515–44

New specimens of the oldest fossil platyrrhine, Branisella boliviana, from Salla, Bolivia. Takai M, et al. **Am J Phys Anthropol** 1996 Feb;99(2):301–17

Preliminary examination of non-occlusal dental microwear in anthropoids: implications for the study of fossil primates. Ungar PS, et al. **Am J Phys Anthropol** 1996 May; 100(1):101–13

New pedal remains of Megaladapis and their functional significance. Wunderlich RE, et al. **Am J Phys Anthropol** 1996 May;100(1):115–39 (62 ref.)

Isotopic biogeochemistry as a marker of Neandertal diet. Bocherens H. **Anthropol Anz** 1997 Jun;55(2):101–20

The origin of protein synthesis: on some molecular fossils identified through comparison of protein sequences. Di Giulio M. **Biosystems** 1996;39(2):159–69

Neandertal DNA sequences and the origin of modern humans [see comments] Krings M, et al. **Cell** 1997 Jul 11;90(1):19–30 . Comment in: Cell 1997 Jul 11;90(1):1–3.

Facts and artifacts of ancient DNA [comment] Lindahl T. **Cell** 1997 Jul 11;90(1):1–3 (7 ref.). Comment on: Cell 1997 Jul 11;90(1):19–30.

Fossilization processes in siliceous thermal springs: trends in preservation along thermal gradients. Cady SL, et al. **Ciba Found Symp** 1996;202:150–70; discussion 170–3 (23 ref.)

The Rhynie cherts: an early Devonian ecosystem preserved by hydrothermal activity. Trewin NH. **Ciba Found Symp** 1996;202:131–45; discussion 145–9

Ancient hydrothermal ecosystems on earth: a new palaeobiological frontier. Walter MR. **Ciba Found Symp** 1996;202:112–27; discussion 127–30 (78 ref.)

Biology in pictures. Eyes fossilized. **Curr Biol** 1996 Aug 1; 6(8):910

Mediatwatch. Mysterious origins. Harris RF. **Curr Biol** 1996 Sep 1;6(9):1045

Degradation of ancient DNA [letter] Kelman Z, et al. **Curr Biol** 1996 Mar 1;6(3):223

Defusing the Cambrian 'explosion'? Morris SC. **Curr Biol** 1997 Feb 1;7(2):R71–4 (13 ref.)

Analysing ancient DNA. Cano RJ. **Endeavour** 1996; 20(4):162–7 (37 ref.)

Humeral head shape as an indicator of locomotor behavior in extant strepsirhines and Eocene adapids. Schmitt D. **Folia Primatol (Basel)** 1996;67(3):137–51

DNA sequence from a fossil pollen of Abies spp. from Pleistocene peat. Suyama Y, et al. **Genes Genet Syst** 1996 Jun;71(3):145–9

Surface modifications of the Sima de los Huesos fossil humans. Andrews P, et al. **J Hum Evol** 1997 Aug–Sep; 33(2–3):191–217

Sima de los Huesos (Sierra de Atapuerca, Spain). The site. Arsuaga JL, et al. **J Hum Evol** 1997 Aug–Sep; 33(2–3):109–27

The Sima de los Huesos crania (Sierra de Atapuerca, Spain). A comparative study. Arsuaga JL, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):219–81

Palaeodemography of the Atapuerca-SH Middle Pleistocene hominid sample. Bermúdez de Castro JM, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):333–55

Geology and preliminary dating of the hominid-bearing sedimentary fill of the Sima de los Huesos Chamber, Cueva Mayor of the Sierra de Atapuerca, Burgos, Spain. Bischoff JL, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):129–54

Clavicles, scapulae and humeri from the Sima de los Huesos site (Sierra de Atapuerca, Spain). Carretero JM, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):357–408

Small mammals from Sima de los Huesos. Cuenca-Bescós G, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):175–90

Ecological diversity and community ecology in the Fayum sequence (Egypt). Gagnon M. **J Hum Evol** 1997 Feb–Mar; 32(2–3):133–60

The carnivore remains from the Sima de los Huesos Middle Pleistocene site (Sierra de Atapuerca, Spain). García N, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):155–74

Wasatchian–Bridgerian (Eocene) paleoecology of the western interior of North America: changing paleoenvironments and taxonomic composition of omomyid (Tarsiiformes) primates. Gunnell GF. **J Hum Evol** 1997 Feb–Mar;32(2–3):105–32 (55 ref.)

Assessing the pelvis of AL 288–1: a reply to Wood and Quinney. Häusler M, et al. **J Hum Evol** 1997 Jan; 32(1):99–102

Body proportions in Late Pleistocene Europe and modern human origins. Holliday TW. **J Hum Evol** 1997 May; 32(5):423–48

Mammals and rainfall: paleoecology of the middle Miocene at La Venta (Colombia, South America). Kay RF, et al. **J Hum Evol** 1997 Feb–Mar;32(2–3):161–99

The temporal bones from Sima de los Huesos Middle Pleistocene site (Sierra de Atapuerca, Spain). A phylogenetic approach. Martínez I, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):283–318

The Orce skull: anatomy of a mistake. Moyà-Solà S, et al. **J Hum Evol** 1997 Jul;33(1):91–7

A critical re-evaluation of the evidence for the presence of hominids in Lower Pleistocene times at Venta Micena, southern Spain. Palmqvist P. **J Hum Evol** 1997 Jul; 33(1):83–9

New Miocene fossil ape locality, Dangar, Hari-Talyangar region, Siwaliks, northern India. Patnaik R, et al. **J Hum Evol** 1997 Jan;32(1):93–7

Re-analysis of the hominid radii from Cave of Hearths and Klasies River Mouth, South Africa. Pearson OM, et al. **J Hum Evol** 1997 Jun;32(6):577–92

A gradient of size and shape for the Atapuerca sample and Middle Pleistocene hominid variability. Rosas A. **J Hum Evol** 1997 Aug–Sep;33(2–3):319–31

Fossil clavicle of a middle Pleistocene hominid from the Central Narmada Valley, India. Sankhyan AR. **J Hum Evol** 1997 Jan;32(1):3–16

Chronological changes in stone tool assemblages from Krapina (Croatia). Simek JF, et al. **J Hum Evol** 1997 Jun; 32(6):561–75

Cladistic analysis of dental traits in recent humans using a fossil outgroup. Stringer CB, et al. **J Hum Evol** 1997 Apr; 32(4):389–402

Human remains from the Moravian Gravettian: the Dolní Věstonice 3 postcrania. Trinkaus E, et al. **J Hum Evol** 1997 Jul;33(1):33–82

A multivariate analysis of Pleistocene hominids: testing hypothesis of European origins. Turbón D, et al. **J Hum Evol** 1997 May;32(5):449–68

Neandertal incisor beveling. Ungar PS, et al. **J Hum Evol** 1997 May;32(5):407–21

Phylogeny and rates of molecular evolution of planktonic foraminifera: SSU rDNA sequences compared to the fossil record. de Vargas C, et al. **J Mol Evol** 1997 Sep; 45(3):285–94

Intestinal capillariasis in neolithic inhabitants of Chalain (Jura, France) [letter] Bouchet F. **Lancet** 1997 Jan 25; 349(9047):256

Extreme differences in rates of molecular evolution of foraminifera revealed by comparison of ribosomal DNA sequences and the fossil record. Pawlowski J, et al. **Mol Biol Evol** 1997 May;14(5):498–505

Reanalysis of published DNA sequence amplified from cretaceous dinosaur egg fossil [letter] Wang HL, et al. **Mol Biol Evol** 1997 May;14(5):589–91

A blind testing design for authenticating ancient DNA sequences. Yang H, et al. **Mol Phylogenet Evol** 1997 Apr; 7(2):261–5

Evidence for stone age cranial surgery [letter] [published erratum appears in Nature 1997 Jun 19;387(6635):768] Alt KW, et al. **Nature** 1997 May 22;387(6631):360

Earliest known Old World monkey skull [see comments] Benefit BR, et al. **Nature** 1997 Jul 24;388(6640):368–71. Comment in: Nature 1997 Jul 24;388(6640):327–8.

Modern human origins backdated [letter] Bräuer G, et al. **Nature** 1997 Mar 27;386(6623):337–8

A new Late Eocene anthropoid primate from Thailand. Chaimanee Y, et al. **Nature** 1997 Jan 30;385(6615):429–31

Paleoanthropology. One skull does not a species make [news; comment] Delson E. **Nature** 1997 Oct 2;389(6650):445–6. Comment on: Nature 1997 Oct 2;389(6650):489–92.

Something up Dawson's sleeve? [letter; comment] Dempster WJ. **Nature** 1996 Jul 18;382(6588):202. Comment on: Nature 1996 May 23;381(6580):261–2.

The origin of the dog-like borhyaenoid marsupials of South America. de Muizon C, et al. **Nature** 1997 Oct 2; 389(6650):486–9

Contending for the dead. Jones DG, et al. **Nature** 1997 Mar

6;386(6620):15–6
Palaeoanthropology. They might be giants [news; comment] Kappelman J. **Nature** 1997 May 8;387(6629):126–7. Comment on: Nature 1997 May 8;387(6629):173–6.
Palaeoanthropology. Fossil muzzles and other puzzles [news; comment] Köhler M, et al. **Nature** 1997 Jul 24; 388(6640):327–8. Comment on: Nature 1997 Jul 24;388(6640):368–71.
Palaeontologists protest at Web sale of hominid remains [news] Masood E. **Nature** 1997 Jun 19;387(6635):748
Multituberculate and other mammal hair recovered from Palaeogene excreta. Meng J, et al. **Nature** 1997 Feb 20; 385(6618):712–4
Epipubic bones in eutherian mammals from the late Cretaceous of Mongolia [see comments] Novacek MJ, et al. **Nature** 1997 Oct 2;389(6650):483–6. Comment in: Nature 1997 Oct 2;389(6650):440–1.
Evolutionary biology. Pelvic problems for mammals [news; comment] Presley R. **Nature** 1997 Oct 2;389(6650):440–1. Comment on: Nature 1997 Oct 2;389(6650):483–6.
Tyrannosaurs suffered from gout [letter] Rothschild BM, et al. **Nature** 1997 May 22;387(6631):357
Body mass and encephalization in Pleistocene Homo [see comments] Ruff CB, et al. **Nature** 1997 May 8; 387(6629):173–6. Comment in: Nature 1997 May 8;387(6629):126–7.
Fossils, genes and the evolution of animal limbs. Shubin N, et al. **Nature** 1997 Aug 14;388(6643):639–48 (115 ref.)
The first skull of Australopithecus boisei [see comments] Suwa G, et al. **Nature** 1997 Oct 2;389(6650):489–92. Comment in: Nature 1997 Oct 2;389(6650):445–6.
Really ancient DNA. Lights turning red on amber [news] Sykes B. **Nature** 1997 Apr 24;386(6627):764–5
A molecular handle on the Neanderthals [news] Ward R, et al. **Nature** 1997 Jul 17;388(6639):225–6
The analysis of ontogenetic trajectories: when a change in size or shape is not heterochrony. Rice SH. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):907–12
Heme compounds in dinosaur trabecular bone. Schweitzer MH, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6291–6
An upper dentition of Aframonius dieides (Primates) from the Fayum, Egyptian Eocene. Simons EL, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7993–6
Problems of reproducibility—does geologically ancient DNA survive in amber-preserved insects? Austin JJ, et al. **Proc R Soc Lond B Biol Sci** 1997 Apr 22;264(1381):467–74
Early hominid fossils from Africa. Leakey M, et al. **Sci Am** 1997 Jun;276(6):74–9
Out of Africa again ... and again? Tattersall I. **Sci Am** 1997 Apr;276(4):60–7
Neanderthal notes. Did ancient humans play modern scales? [news] Wong K. **Sci Am** 1997 Sep;277(3):28, 30
Moroto morass. A fossil ape unexpectedly resembles modern apes and humans. Wong K. **Sci Am** 1997 Jul;277(1):21–2
Size variation in Middle Pleistocene humans. Arsuaga JL, et al. **Science** 1997 Aug 22;277(5329):1086–8
A hominid from the lower Pleistocene of Atapuerca, Spain: possible ancestor to Neandertals and modern humans [see comments] Bermúdez de Castro JM, et al. **Science** 1997 May 30;276(5317):1392–5. Comment in: Science 1997 May 30;276(5317):1331–3.
Evidence of cannibalism? [letter] Bullock PY. **Science** 1997 Sep 19;277(5333):1745–6
Mass survival of birds across the Cretaceous-Tertiary boundary: molecular evidence [see comments] Cooper A, et al. **Science** 1997 Feb 21;275(5303):1109–13. Comment in: Science 1997 Feb 21;275(5303):1068.
A hominoid genus from the early Miocene of Uganda [see comments] Gebo DL, et al. **Science** 1997 Apr 18; 276(5311):401–4. Comment in: Science 1997 Apr 18;276(5311):355–6.
Paleoanthropology. Miocene primates go ape [news; comment] Gibbons A, et al. **Science** 1997 Apr 18; 276(5311):355–6. Comment on: Science 1997 Apr 18;276(5311):401–4.
Tracing the identity of the first toolmakers [news] Gibbons A. **Science** 1997 Apr 4;276(5309):32
A rare glimpse of an early human face [news] Gibbons A. **Science** 1996 Nov 22;274(5291):1298
Did birds sail through the K-T extinction with flying colors? [news; comment] Gibbons A. **Science** 1997 Feb 21; 275(5303):1068. Comment on: Science 1997 Feb 21;275(5303):1109–13.
Bone sizes trace the decline of man (and woman) [news] Gibbons A. **Science** 1997 May 9;276(5314):896–7
Homo erectus in Java: a 250,000-year anachronism [news; comment] Gibbons A. **Science** 1996 Dec 13; 274(5294):1841–2. Comment on: Science 1996 Dec 13;274(5294):1870–4.
A new face for human ancestors [news; comment] Gibbons A. **Science** 1997 May 30;276(5317):1331–3. Comment on: Science 1997 May 30;276(5317):1392–5.
Archaeologists rediscover cannibals [news] Gibbons A. **Science** 1997 Aug 1;277(5326):635–7
Dating the Ngandong humans [comment] [published erratum appears in Science 1997 Aug 8;277(5327):753] Grün R, et al. **Science** 1997 Jun 6;276(5318):1575–6. Comment on: Science 1996 Dec 13;274(5294):1870–4.
Anthropoid origins. Kay RF, et al. **Science** 1997 Feb 7; 275(5301):797–804 (87 ref.)
Chlorine-36 in fossil rat urine: an archive of cosmogenic nuclide deposition during the past 40,000 years. Plummer MA, et al. **Science** 1997 Jul 25;277(5325):538–41
Latest Homo erectus of Java: potential contemporaneity with Homo sapiens in southeast Asia [see comments] Swisher CC 3rd, et al. **Science** 1996 Dec 13;274(5294):1870–4. Comment in: Science 1996 Dec 13;274(5294):1841–2. Comment in: Science 1997 Jun 6;276(5318):1575–6.
[Re-analysis of DNA sequence data from a dinosaur egg fossil unearthed in Xixia of Henan Province] Wang H. **I Chuan Hsueh Pao** 1996;23(3):183–9 (Eng. Abstr.) **(Chi)**
["Lingue di seripi", "serpents' tongues" and "glossopetrae". Highlights from the history of popular "cult" medicine in early modern times] Freller T. **Sudhoffs Arch Z Wissenschaftsgesch** 1997;81(1):62–83 (Eng. Abstr.) **(Ger)**
[Stone age deerfly (Lipoptena cervi) found with a mummy in a glacier] Gothe R, et al. **Tierarztl Prax** 1996 Dec; 24(6):549–51 (Eng. Abstr.) **(Ger)**
[Animal husbandry and hunting in the neolithic age as an example of animal remains Pestenacker (Lkr. Landsberg am Lech) settlement] Sorge G. **Tierarztl Prax** 1996 Oct; 24(5):432–5 (Eng. Abstr.) **(Ger)**
[Wild horse or domesticated horse? Horse remains from the neolithic settlement in Pestenacker, Bavaria] Vagedes K. **Tierarztl Prax** 1996 Aug;24(4):344–6 (Eng. Abstr.) **(Ger)**
[Taxonomy of European and Persian fallow deer on the basis of bone remains in Turkey] Vogler U. **Tierarztl Prax** 1997 Apr;25(2):100–5 (Eng. Abstr.) **(Ger)**
[Etiology of the cribra orbitalia: effect of amino acid profile in bone collagen and the iron content of bone minerals] Grupe G. **Z Morphol Anthropol** 1995 Dec;81(1):125–37 (Eng. Abstr.) **(Ger)**
[Fossils of auditory ossicles from the distance of one and a half millenia] Czigány J. **Orv Hetil** 1996 Jun 30; 137(26):1430–1 **(Hun)**
[Restriction analysis of the Enmynveem mammoth] Maliarchuk BA. **Dokl Akad Nauk** 1997 Mar;353(3):423–5 **(Rus)**

FOSTER HOME CARE

Supporting children in need through a community-based orphan visiting programme. Foster G, et al. **AIDS Care** 1996 Aug;8(4):389–403
Ensuring health care for foster children through Medicaid's EPSDT program. Ruptier NM. **Am J Public Health** 1997 Feb;87(2):290–1
Outcome in placements for adoption or long-term fostering. Holloway JS. **Arch Dis Child** 1997 Mar;76(3):227–30
Foster and adoptive mothers' assessment of permanent family placements. Holloway JS. **Arch Dis Child** 1997 Mar; 76(3):231–5
Shelter-based homeless youth. Health and access to care. Ensign J, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):817–23
Widespread growth retardation and variable growth recovery in foster children in the first year after initial placement. Wyatt DT, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):813–6
The mental health of children in foster care: a comparison with community and clinical samples. Stein E, et al. **Can J Psychiatry** 1996 Aug;41(6):385–91
The reported health and functioning of children maltreated while in family foster care. Benedict MI, et al. **Child Abuse Negl** 1996 Jul;20(7):561–71
Type of maltreatment as a predictor of mental health service use for children in foster care. Garland AF, et al. **Child Abuse Negl** 1996 Aug;20(8):675–88
The foster carer experience in Ireland: findings from a postal survey [published erratum appears in Child Care Health Dev 1996 May;22(3):217] Gilligan R. **Child Care Health Dev** 1996 Mar;22(2):85–98
The experience of family foster care in Malawi: a preliminary investigation. Bandawe CR, et al. **Child Welfare** 1997 Jul-Aug;76(4):535–47
Effects of age and race on the odds of adoption versus remaining in long-term out-of-home care. Barth RP. **Child Welfare** 1997 Mar-Apr;76(2):285–308
A comprehensive, multidisciplinary approach to providing health care for children in out-of-home care. Blatt SD, et al. **Child Welfare** 1997 Mar-Apr;76(2):331–47
Behavioral correlates of parental visiting during family foster care. Cantos AL, et al. **Child Welfare** 1997 Mar-Apr; 76(2):309–29
Understanding and countering racism with first nations children in out-of-home care. Palmer S, et al. **Child Welfare** 1996 Nov-Dec;75(6):709–25 (20 ref.)
Foster care: an update. Rosenfeld AA, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):448–57 (57 ref.)
AIDS orphans in Louisiana in the year 2000: the potential economic impact on the foster care system. Parsons S, et al. **J La State Med Soc** 1996 Sep;148(9):391–8
Evaluation of an HIV/AIDS education program for family-based foster care providers. Scotti JR, et al. **Ment Retard** 1996 Apr;34(2):75–82
"Sylvia Frumkin" has a baby: a case study for policymakers. Nicholson J, et al. **Psychiatr Serv** 1996 May;47(5):497–501
British agencies for adoption and fostering in Scotland—Scottish Medical Advisers' survey. Irving MA, et al. **Public Health** 1997 Jul;111(4):225–9
Mothers in recovery: rebuilding families in the aftermath of addiction. Carten AJ. **Soc Work** 1996 Mar;41(2):214–23

HISTORY

Survival of orphans in 19th century Sweden—the importance of remarriages. Andersson T, et al. **Acta Paediatr** 1996 Aug; 85(8):981–5

LEGISLATION & JURISPRUDENCE

Early citizen review: does it make a difference? Jennings MA, et al. **Soc Work** 1996 Mar;41(2):224–31
The politics of the Indian Child Welfare Act. Matheson L. **Soc Work** 1996 Mar;41(2):232–5

METHODS

Adult functioning of children who lived in kin versus nonrelative family foster homes. Benedict MI, et al. **Child Welfare** 1996 Sep-Oct;75(5):529–49
"Of mind, body, and spirit": therapeutic foster care—an innovative approach to healing from an NTU perspective. Gregory SD, et al. **Child Welfare** 1997 Jan-Feb; 76(1):127–42

ORGANIZATION & ADMINISTRATION

Permanency outcomes in kinship care: a study of children placed in kinship care in Erie County, New York. Link MK. **Child Welfare** 1996 Sep-Oct;75(5):509–28
Reorienting intensive family preservation services in relation to public child welfare practice. Wells K, et al. **Child Welfare** 1996 Nov-Dec;75(6):667–92 (75 ref.)
The substitutability of adult foster care for nursing home care in Oregon. Nyman JA, et al. **Med Care** 1997 Aug; 35(8):801–13

PSYCHOLOGY

Foster care's youngest: a preliminary report. Klee L, et al. **Am J Orthopsychiatry** 1997 Apr;67(2):290–9
The socioemotional development of orphans in orphanages and traditional foster care in Iraqi Kurdistan. Ahmad A, et al. **Child Abuse Negl** 1996 Dec;20(12):1161–73
Correlates of therapy referral in foster children. Cantos AL, et al. **Child Abuse Negl** 1996 Oct;20(10):921–31
The concept of family: perceptions of children in family foster care. Gardner H. **Child Welfare** 1996 Mar-Apr; 75(2):161–82
Malaise scores in adulthood of children and young people who have been in care. Cheung SY, et al. **J Child Psychol Psychiatry** 1997 Jul;38(5):575–80
Transracial family placements. Rushton A, et al. **J Child Psychol Psychiatry** 1997 Feb;38(2):147–59 (105 ref.)
Foster home environments: a preliminary report. Simms MD, et al. **J Dev Behav Pediatr** 1996 Jun;17(3):170–5
Foster parents' early adaptation to the placement of a child with developmental disabilities in their home. Rodriguez JA, et al. **J Pediatr Nurs** 1996 Apr;11(2):111–8

STANDARDS

Effectiveness of treatment foster care with children and adolescents: a review of outcome studies. Reddy LA, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):581–8

STATISTICS & NUMERICAL DATA

The orphan problem: experience of a sub-Saharan Africa rural population in the AIDS epidemic. Kamali A, et al. **AIDS Care** 1996 Oct;8(5):509–15
Africa's emerging AIDS-orphans crisis. Baggaley RC, et al. **Can Med Assoc J** 1997 Mar 15;156(6):873–5
An out-of-home care system in crisis: implications for African American children in the child welfare system. Brown AW, et al. **Child Welfare** 1997 Jan-Feb;76(1):65–83 (49 ref.)
Outcomes for infants exposed in utero to illicit drugs. Jaudes PK, et al. **Child Welfare** 1997 Jul-Aug;76(4):521–34
Public health. Orphaned by AIDS. Swan H. **Hosp Health Netw** 1997 Apr 5;71(7):88, 90
Use of the public mental health system by children in foster care: client characteristics and service use patterns. Blumberg E, et al. **J Ment Health Adm** 1996 Fall; 23(4):389–405

TRENDS

Kinship care: the African American response to family preservation. Scannapieco M, et al. **Soc Work** 1996 Mar; 41(2):190–6

FOUNDATIONS

Modifying the culture of medical education: the first three years of the RWJ Generalist Physician Initiative. Colwill JM, et al. **Acad Med** 1997 Sep;72(9):745–53 (34 ref.)
Award of the Professor Pierre Rijlant Foundation for Cardiac Electrophysiology. Lequime J. **Acta Cardiol** 1995; 50(6):411–2
Put the Pew Health Professions Commission health care workforce regulation report at the top of your 1996 reading list [editorial; comment] Giordano BP. **AORN J** 1996 Feb; 63(2):338, 340. Comment on: AORN J 1996 Feb;63(2):343, 346–8.
Evaluation of the Heart and Stroke Foundation of Canada

Research Scholarship Program: research productivity and impact. Armstrong PW, et al. **Can J Cardiol** 1997 May; 13(5):507–16

Are the lean days for research funding finally coming to an end? Gray C. **CMAJ** 1997 Jun 15;156(12):1748–9

CDC foundation supports emerging infectious disease projects [news] Stokes C. **Emerg Infect Dis** 1996 Apr–Jun; 2(2):157–8

The American Digestive Health Foundation: advancing digestive health through support of research and education in the cause, prevention, treatment, and cure of digestive diseases. Brotman M, et al. **Gastroenterology** 1996 Jun; 110(6):1997–9

"Great transitions, preparing adolescents for a new century". A commentary on the health component of the concluding report of the Carnegie Council on Adolescent Development. Cohen MI. **J Adolesc Health** 1996 Jul; 19(1):2–5

Foundation project promotes stroke prevention. **J Miss State Med Assoc** 1997 Jan;38(1):16–7

Colleagues in Caring. Rapson MF, et al. **J Nurs Adm** 1997 Jan;27(1):5–8

Another boost for US biomedical research [news] Greenberg DS. **Lancet** 1997 Sep 13;350(9080):791

Characteristics and activities of case managers in the RWJ Foundation Program on chronic mental illness. Ridgely MS, et al. **Psychiatr Serv** 1996 Jul;47(7):737–43

Foundation funding opportunities. Bowers B. **Radiology** 1996 Nov;201(2):28A

ECONOMICS

Some guidelines for managing charitable assets from conversions. Kane NM. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):229–37

Foundations. Show us the money. Blecher MB. **Hosp Health Netw** 1997 Jun 20;71(12):52–4

Sharing the responsibility [editorial] Laney WR. **Int J Oral Maxillofac Implants** 1996 Jan–Feb;11(1):9

Scientists with clout [news] Balter M. **Science** 1996 Nov 22; 274(5291):1292–5

[A scholar, fund holder, insurance and tax authority] Elovainio L. **Duodecim** 1995;111(19):1897–901 **(Fin)**

HISTORY

United Medical Research Foundation. A brief chapter in the history of North Carolina medicine. Alexander E Jr. **N C Med J** 1997 May–Jun;58(3):206–7

History of the Foundation for International Education in Neurological Surgery. Tyrer AR Jr. **Neurosurgery** 1997 Feb;40(2):379–81; discussion 381–2

LEGISLATION & JURISPRUDENCE

UCSF settles lawsuit over research costs [news] [see comments] Dalton R. **Nature** 1997 Jan 30;385(6615):377. Comment in: Nature 1997 Apr 17;386(6626):642–3.

Deserving of trust [letter; comment] Herskowitz A. **Nature** 1997 Apr 17;386(6626):642–3. Comment on: Nature 1997 Jan 30;385(6615):377.

ORGANIZATION & ADMINISTRATION

A woman's leadership in mobilizing an Indian community for drug control. Bedi K. **Bull Narc** 1995;47(1–2):15–21

Restructuring: meeting the challenges [news] Beatty JD. **Can J Oncol** 1995 Mar;5(1):VII–IX

Cancer scientist takes on top job at Wellcome Trust [news] Dickson D. **Nature** 1997 Sep 25;389(6649):318

FOUNDER EFFECT

Evidence for a possible Asian origin of YAP+ Y chromosomes [letter] Altheide TK, et al. **Am J Hum Genet** 1997 Aug;61(2):462–6

The Réunion paradox and the digenic model [letter; comment] Beckmann JS. **Am J Hum Genet** 1996 Dec; 59(6):1400–2. Comment on: Am J Hum Genet 1996 Jan;58(1):241–3.

The genetic clock and the age of the founder effect in growing populations: a lesson from French Canadians and Ashkenazim [letter] Labuda D, et al. **Am J Hum Genet** 1997 Sep;61(3):768–71

A high proportion of novel mutations in BRCA1 with strong founder effects among Dutch and Belgian hereditary breast and ovarian cancer families [see comments] Peelen T, et al. **Am J Hum Genet** 1997 May;60(5):1041–9. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Localization of the gene causing keratolytic winter erythema to chromosome 8p22–p23, and evidence for a founder effect in South African Afrikaans-speakers. Starfield M, et al. **Am J Hum Genet** 1997 Aug;61(2):370–8

Fragile X founder chromosomes in Italy: a few initial events and possible explanation for their heterogeneity. Chiurazzi P, et al. **Am J Med Genet** 1996 Jul 12;64(1):209–15

Fragile X founder effects and new mutations in Finland. Zhong N, et al. **Am J Med Genet** 1996 Jul 12;64(1):226–33

Population stratifications can cause false positive linkage results if founders are untyped. Curtis D, et al. **Ann Hum Genet** 1996 May;60 (Pt 3):261–3

Origin and migration of an Afrikaner founder mutation FHAfrikaner–2 (V408M) causing familial hypercholesterolemia. Defesche JC, et al. **Gene Geogr** 1996 Apr;10(1):1–10

Fine mapping of the gene for carbohydrate-deficient glycoprotein syndrome, type I (CDG1): linkage disequilibrium and founder effect in Scandinavian families. Bjursell C, et al. **Genomics** 1997 Feb 1;39(3):247–53

Gene frequency clines produced by kin–structured founder effects. Fix AG. **Hum Biol** 1997 Oct;69(5):663–73

No founder effect in three novel Alzheimer's disease families with APP 717 Val—>Ile mutation. Clerget-darpoux. French Alzheimer's Disease Study Group. Campion D, et al. **J Med Genet** 1996 Aug;33(8):661–4

Ashkenazim not alone: other ethnic groups have breast cancer gene mutations, too [news] Keoun B. **J Natl Cancer Inst** 1997 Jan 1;89(1):8–9

Genetic screening in hereditary multiple endocrine neoplasia type 1: absence of a founder effect among Japanese families. Sakurai A, et al. **Jpn J Cancer Res** 1996 Sep;87(9):985–94

[Prevalence and founder effect of Huntington's disease in the San–in area of Japan] Nakashima K, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1532–4 (Eng. Abstr.) **(Jpn)**

FOUR CORNERS VIRUS see **HANTAVIRUS**

FOURIER ANALYSIS

Fourier transformation of corneal topography data. Keller P, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S53–5

Rapid protein fragment search using hash functions based on the Fourier transform. Akutsu T, et al. **Comput Appl Biosci** 1997 Aug;13(4):357–64

Fast sinogram computation and the sinogram–based alignment of images. Lanzavecchia S, et al. **Comput Appl Biosci** 1996 Dec;12(6):531–7

Selection of amino acid parameters for Fourier transform–based analysis of proteins. Lazović J. **Comput Appl Biosci** 1996 Dec;12(6):553–62

Prediction of probable genes by Fourier analysis of genomic sequences. Tiwari S, et al. **Comput Appl Biosci** 1997 Jun; 13(3):263–70

Signal processing methods for pulse oximetry. Rusch TL, et al. **Comput Biol Med** 1996 Mar;26(2):143–59

Fluctuations in red cell membranes. Morariu VV, et al. **Cytobios** 1996;86(344):53–64

Investigating the effect of maternal alcohol intake on human fetal breathing rate using adaptive time–frequency analysis methods. Akay M, et al. **Early Hum Dev** 1996 Sep 20; 46(1–2):153–64

The interface of capillary electrophoresis with high performance Fourier transform ion cyclotron resonance mass spectrometry for biomolecule characterization. Severs JC, et al. **Electrophoresis** 1996 Dec;17(12):1808–17

MSE behavior of biomedical event–related filters. Barros AK, et al. **IEEE Trans Biomed Eng** 1997 Sep;44(9):848–55

Analysis of laser Doppler flux motion in man: comparison of autoregressive modelling and fast Fourier transformation. Weidenhagen R, et al. **Int J Microcirc Clin Exp** 1996 Mar–Apr;16(2):64–73

Fourier phase mapping of the human heart. The use of spatial modulation of magnetization cine magnetic resonance imaging. Knollmann FD, et al. **Invest Radiol** 1996 Dec; 31(12):743–8

Detection of wire EMG activity in whiplash injuries using wavelets. Panagiotacopulos ND, et al. **Iowa Orthop J** 1997; 17:134–8

Quantitative characterization of vascular endothelial cell morphology and orientation using Fourier transform analysis. Palmer BM, et al. **J Biomech Eng** 1997 May; 119(2):159–65

Use of Fourier shape descriptors to improve the reproducibility of echographic measurements of arterial intima–media thickness. Bruschi G, et al. **J Hypertens** 1997 May;15(5):467–74

SRS–FT, a Fourier imaging method based on sparse radial scanning and Bayesian estimation. Graveron–Demilly D, et al. **J Magn Reson B** 1996 Aug;112(2):119–23

The early development of Fourier transform ion cyclotron resonance (FT–ICR) spectroscopy. Comisarow MB, et al. **J Mass Spectrom** 1996 Jun;31(6):581–5

Fourier models and the loci of adaptation. Makous WL. **J Opt Soc Am A** 1997 Sep;14(9):2323–45

Quantitative FT–Raman analysis of two crystal forms of a pharmaceutical compound. Langkilde FW, et al. **J Pharm Biomed Anal** 1997 Mar;15(6):687–96

Improved image registration by using Fourier interpolation. Eddy WF, et al. **Magn Reson Med** 1996 Dec;36(6):923–31

Ray vector fields, prentice's equation, and Fourier representation of spherocylindrical lenses [see comments] Lakshminarayanan V, et al. **Optom Vis Sci** 1996 Jul; 73(7):499–505. Comment in: Optom Vis Sci 1997 Feb;74(2):120–1.

Power vectors: an application of Fourier analysis to the description and statistical analysis of refractive error [see comments] Thibos LN, et al. **Optom Vis Sci** 1997 Jun; 74(6):367–75 (44 ref.). Comment in: Optom Vis Sci 1997 Jun;74(6):339–41.

Fast direct Fourier methods, based on one– and two–pass coordinate transformations, yield accurate reconstructions of x–ray CT clinical images. Bellon PL, et al. **Phys Med Biol** 1997 Mar;42(3):443–63

Fast Fourier transform analysis of dynamic data: sine wave stress–strain analysis of biological tissue. Wang L, et al. **Phys Med Biol** 1997 Mar;42(3):537–47

High resolution fast quantitative docking using Fourier domain correlation techniques. Blom NS, et al. **Proteins** 1997 Apr;27(4):493–506

Analysis of the cough sound: an overview. Korpáš J, et al. **Pulm Pharmacol** 1996 Oct–Dec;9(5–6):261–8

Methods of recording and analysing cough sounds. Subburaj S, et al. **Pulm Pharmacol** 1996 Oct–Dec;9(5–6):269–79

Determination of the unit size of the corneal endothelial cell mosaic from Fourier component image analysis. Doughty MJ, et al. **Tissue Cell** 1997 Apr;29(2):229–38

[Analysis of colonic motility by fast Fourier transform] Takekawa S. **J Smooth Muscle Res** 1996 Oct;32(5):203–12 (Eng. Abstr.) **(Jpn)**

FOURIER SERIES see **FOURIER ANALYSIS**

FOURIER TRANSFORM see **FOURIER ANALYSIS**

FOURIER TRANSFORM INFRARED SPECTROSCOPY see **SPECTROSCOPY, FOURIER TRANSFORM INFRARED**

FOURNIER'S DISEASE see **FOURNIER'S GANGRENE**

FOURNIER'S GANGRENE

[Fournier gangrene (manifestation of anogenital necrotizing fasciitis)] Török L, et al. **Orv Hetil** 1996 Oct 27; 137(43):2417–9 (Eng. Abstr.) **(Hun)**

[Fournier's gangrene. Report of 3 cases] Morgana R, et al. **Minerva Chir** 1996 Oct;51(10):871–6 (Eng. Abstr.) **(Ita)**

[Fournier's gangrene] Roca B, et al. **An Med Interna** 1996 Dec;13(12):608–11 (37 ref.) (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Crohn's disease presenting with Fournier's gangrene and enterovesical fistula. Brings HA, et al. **Am Surg** 1997 May; 63(5):401–5

Fournier's gangrene as the initial clinical manifestation of diabetes mellitus. Cheng TJ, et al. **J Formos Med Assoc** 1996 Feb;95(2):184–6

DIAGNOSIS

Scrotal pain and swelling. Riviello RJ, et al. **Acad Emerg Med** 1997 Mar;4(3):223–4, 233–5

ETIOLOGY

Perforated colonic carcinoma presenting as epididymo–orchitis and Fournier's gangrene. Gould SW, et al. **Eur J Surg Oncol** 1997 Aug;23(4):367–8

MICROBIOLOGY

Necrotizing fasciitis: flesh–eating microbes [editorial; comment] Moses AE. **Isr J Med Sci** 1996 Sep;32(9):781–4 (26 ref.). Comment on: Isr J Med Sci 1996 Sep;32(9):745–9.

MORTALITY

Sudden unexpected death due to Fournier's gangrene. Bunai Y, et al. **Int J Legal Med** 1997;110(2):104–6

PATHOLOGY

Picture of the month. Fournier gangrene. Huang LT, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1307–8

Fournier's gangrene. Schmidt N, et al. **Can J Surg** 1996 Dec; 39(6):448–9

[Fournier's gangrene: description of a case] Negri S, et al. **Pathologica** 1996 Aug;88(4):303–6 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

[Fournier's gangrene: computerized tomography findings] Bernaldo de Quirós JM, et al. **Arch Esp Urol** 1997 Apr; 50(3):294–6 (Eng. Abstr.) **(Spa)**

SURGERY

Total scrotal reconstruction after Fournier's gangrene—a case report using rectus abdominis myocutaneous flap. Tan BK, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):890–2

Extensive necrotizing soft tissue infection of the perineum [see comments] Ben–Aharon U, et al. **Isr J Med Sci** 1996 Sep;32(9):745–9. Comment in: Isr J Med Sci 1996 Sep;32(9):781–4.

Fournier's gangrene: still highly lethal. Papachristodoulou AJ, et al. **Langenbecks Arch Chir** 1997;382(1):15–8

Reconstruction of a total anterior urethral defect using buccal mucosa. Hellstrom WJ, et al. **South Med J** 1996 Nov; 89(11):1088–91

[Plastic surgery defect coverage in the area of the pelvis and trunk] Germann G, et al. **Chirurg** 1997 May; 68(5):469–76 (26 ref.) (Eng. Abstr.) **(Ger)**

[Cosmetic and functional long–term outcome after operation of Fournier gangrene] Theiss M, et al. **Urologe A** 1996 Jul; 35(4):338–41 (Eng. Abstr.) **(Ger)**

[Anogenital problem wounds: Fournier's gangrene] Krause–Bergmann A, et al. **Zentralbl Chir** 1996;121 Suppl:81–2 **(Ger)**

[Fournier gangrene] Theiss M, et al. **Zentralbl Chir** 1996;121 Suppl:55–7 **(Ger)**

FOURNIER'S GANGRENE

THERAPY

Fournier's disease: adjunctive hyperbaric oxygen therapy (HBO) to classic therapy. Baykal K, et al. **Int Urol Nephrol** 1996;28(4):539–41

Hyperbaric oxygen therapy in the treatment of Fournier's disease in 11 male patients. Pizzorno R, et al. **J Urol** 1997 Sep;158(3 Pt 1):837–40

[A case of Fournier's gangrene with healing accelerated by argatroban] Soda T, et al. **Hinyokika Kiyo** 1996 Dec; 42(12):981–2 (Eng. Abstr.) **(Jpn)**

FOVEA CENTRALIS

Scanning laser densitometry in visual acuity loss of unknown origin. DeLint PJ, et al. **Br J Ophthalmol** 1996 Dec; 80(12):1051–4

Butterfly-shaped pigment dystrophy of the fovea associated with subretinal neovascularization. Marano F, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Apr;234(4):270–4

Choroidal hypoperfusion after surgical excision of subfoveal neovascular membranes in age-related macular degeneration. Thach AB, et al. **Int Ophthalmol** 1996–97; 20(4):205–13

Foveal cone function in nonproliferative diabetic retinopathy and macular edema. Weiner A, et al. **Invest Ophthalmol Vis Sci** 1997 Jun;38(7):1443–9

Determination of the foveal cone spacing by ocular speckle interferometry: limiting factors and acuity predictions. Marcos S, et al. **J Opt Soc Am A** 1997 Apr;14(4):731–40

Subfoveal choroidal neovascularization in uveitis. Inagaki M, et al. **Ophthalmologica** 1996;210(4):229–33

Subfoveal choroidal neovascularization in punctate inner choroidopathy. Surgical management and pathologic findings. Olsen TW, et al. **Ophthalmology** 1996 Dec; 103(12):2061–9

Correlation between scanning laser ophthalmoscope microperimetry and anatomic abnormalities in patients with subfoveal neovascularization. Tezel TH, et al. **Ophthalmology** 1996 Nov;103(11):1829–36

Factors influencing visual acuity after photocoagulation for subfoveal choroidal neovascularization of exudative age-related macular degeneration. Yuzawa M, et al. **Ophthalmology** 1996 Dec;103(12):2037–41

Surgical removal of subfoveal neovascularization in idiopathic juxtafoveolar retinal telangiectasis. Berger AS, et al. **Retina** 1997;17(2):94–8

BLOOD SUPPLY

Risk factors for choroidal neovascularization in the second eye of patients with juxtafoveal or subfoveal choroidal neovascularization secondary to age-related macular degeneration. Macular Photocoagulation Study Group. **Arch Ophthalmol** 1997 Jun;115(6):741–7

Macular surgery [published erratum appears in Br J Hosp Med 1996 Apr 17–30;55(8):526] Aylward GW. **Br J Hosp Med** 1996 Feb 7–20;55(3):85–8 (14 ref.)

Teletherapy in the management of patients with age-related macular degeneration complicated by subfoveal neovascularisation: an overview. Hart PM, et al. **Front Radiat Ther Oncol** 1997;30:229–37 (26 ref.)

Perifoveal capillary network in patients with acute central retinal vein occlusion. Remky A, et al. **Ophthalmology** 1997 Jan;104(1):33–7

Decision-making in the treatment of subfoveal neovascularization in age-related macular degeneration. An analysis from the patient's perspective. Bernstein PS, et al. **Retina** 1996;16(2):112–6

[Effect of different single agent antihypertensive therapies on peri-foveal microcirculation in patients with arterial hypertension] Kutschbach P, et al. **Ophthalmologe** 1996 Dec;93(6):699–702 (Eng. Abstr.) **(Ger)**

CYTOLOGY

Topography of ganglion cells and photoreceptors in the retina of a New World monkey: the marmoset Callithrix jacchus. Wilder HD, et al. **Vis Neurosci** 1996 Mar–Apr; 13(2):335–52

Foveal cone spacing and cone photopigment density difference: objective measurements in the same subjects. Marcos S, et al. **Vision Res** 1997 Jul;37(14):1909–15

EMBRYOLOGY

Maturational gradients in the retina of the ferret. Reese BE, et al. **J Comp Neurol** 1996 Nov 11;375(2):252–73

Evidence that retinal ganglion cell density affects foveal development. Leventhal AG. **Perspect Dev Neurobiol** 1996; 3(3):203–11 (20 ref.)

INNERVATION

Relationship of nerve fiber layer defects and parafoveal visual field defects in glaucomatous eyes. Uchida H, et al. **Jpn J Ophthalmol** 1996;40(4):548–53

Nitrergic nerve cells in the primate ciliary muscle are only present in species with a fovea centralis. Tamm ER, et al. **Ophthalmologica** 1997;211(3):201–4

METABOLISM

Immunostaining with antibodies against protein kinase C isoforms in the fovea of the monkey retina. Kolb H, et al. **Microsc Res Tech** 1997 Jan 1;36(1):57–75

[Foveal cone densitometry in high myopia] Horio N, et al. **Nippon Ganka Gakkai Zasshi** 1996 Mar;100(3):235–9 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

White dot fovea. Yokotsuka K, et al. **Am J Ophthalmol** 1997 Jan;123(1):76–83

The central visual field in homonymous hemianopia. Evidence for unilateral foveal representation. Gray LG, et al. **Arch Neurol** 1997 Mar;54(3):312–7

Fixation patterns and reading rates in eyes with central scotomas from advanced atrophic age-related macular degeneration and Stargardt disease. Sunness JS, et al. **Ophthalmology** 1996 Sep;103(9):1458–66

Bilateral subretinal neovascular membrane in idiopathic juxtafoveolar telangiectasis. Lee BL. **Retina** 1996; 16(4):344–6

Ring retinal pigment epithelial window defect of the macula in central serous chorioretinopathy. Park DW, et al. **Retina** 1997;17(3):205–10

PHYSIOLOGY

Influence of foveal afterimage on non-visually induced pursuit eye movements. Watanabe N, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:163–6

The effects of foveal load and visual context on peripheral letter recognition. Salvemini AV, et al. **Acta Psychol (Amst)** 1996 Aug;92(3):309–21

Characterization of a human fovea cDNA library and regional differential gene expression in the human retina. Bernstein SL, et al. **Genomics** 1996 Mar 15;32(3):301–8

Detection of geometric image distortions at various eccentricities. Rovamo J, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):1029–39

Ablation of the pursuit area in the frontal cortex of the primate degrades foveal but not optokinetic smooth eye movements. Keating EG, et al. **J Neurophysiol** 1996 Jul; 76(1):637–41

Spatial and temporal integration of signals in foveal line orientation. Westheimer G, et al. **J Neurophysiol** 1997 May; 77(5):2677–84

Effect of window size on detection acuity and resolution acuity for sinusoidal gratings in central and peripheral vision. Anderson RS, et al. **J Opt Soc Am A** 1996 Apr; 13(4):697–706

Test of a model of foveal vision by using simulations. Peli E. **J Opt Soc Am A** 1996 Jun;13(6):1131–8

Foveal cone mosaic and visual pigment density in dichromats. Berendschot TT, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):307–14

A neural model of foveal light adaptation and afterimage formation. Wilson HR. **Vis Neurosci** 1997 May–Jun; 14(3):403–23 (82 ref.)

Early impairment of foveal magno- and parvocellular pathways in juxta chiasmal tumours. Gutowski NJ, et al. **Vision Res** 1997 May;37(10):1401–8

Flicker sensitivity as a function of spectral density of external white temporal noise. Rovamo J, et al. **Vision Res** 1996 Dec;36(23):3767–74

PHYSIOPATHOLOGY

Effect on vision of binocular foveal contour interactions [letter] Plant GT, et al. **Lancet** 1997 May 3; 349(9061):1296–7

Foveal color and luminance sensitivity losses in glaucoma. Kelly JP, et al. **Ophthalmic Surg Lasers** 1996 Mar; 27(3):179–87

Predicting visual acuity in eyes with fundus colobomas: optic nerve involvement, size, or the fovea? [letter] Olsen TW, et al. **Ophthalmology** 1997 Sep;104(9):1367–8

Velocity criteria for "foveation periods" determined from image motions simulating congenital nystagmus. Chung ST, et al. **Optom Vis Sci** 1996 Feb;73(2):92–103

[Foveal deuteranoptic opposing color vision] Orazem A, et al. **Ophthalmologe** 1997 Mar;94(3):222–9 (Eng. Abstr.) **(Ger)**

SURGERY

Submacular surgery for subfoveal choroidal neovascular membranes in patients with presumed ocular histoplasmosis [see comments] Berger AS, et al. **Arch Ophthalmol** 1997 Aug;115(8):991–6. Comment in: Arch Ophthalmol 1997 Aug;115(8):1071–2.

Submacular surgery. New information, more questions [editorial; comment] Bressler NM. **Arch Ophthalmol** 1997 Aug;115(8):1071–2. Comment on: Arch Ophthalmol 1997 Aug;115(8):991–6.

Macular scatter ('grid') laser treatment of poorly demarcated subfoveal choroidal neovascularization in age-related macular degeneration. Results of a randomized pilot trial [see comments] Bressler NM, et al. **Arch Ophthalmol** 1996 Dec;114(12):1456–64. Comment in: Arch Ophthalmol 1996 Dec;114(120:1506–7.

The peril of the pilot study [editorial; comment] Ferris FL 3rd, et al. **Arch Ophthalmol** 1996 Dec;114(12):1506–7 (10 ref.). Comment on: Arch Ophthalmol 1996 Dec;114(12):1456–64.

Indirect scatter laser photocoagulation to subfoveal choroidal neovascularization in age-related macular degeneration. Arnold J, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Apr;235(4):208–16

Surgical removal of idiopathic, myopic and age-related subfoveal neovascularization. Bottoni F, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S42–50

Evaluation of fixation one year after perifoveal laser treatment of subfoveal choroidal neovascularization. Fasce F, et al. **Int Ophthalmol** 1996–97;20(5):251–8

Surgical removal of subfoveal choroidal neovascularization in presumed ocular histoplasmosis: stability of early visual results. Holekamp NM, et al. **Ophthalmology** 1997 Jan; 104(1):22–6

Nuclear sclerotic cataract after vitrectomy in patients younger than 50 years of age. Melberg NS, et al. **Ophthalmology** 1995 Oct;102(10):1466–71

TRANSPLANTATION

Retinotomy and foveal translocation for surgical management of subfoveal choroidal neovascular membranes. Ninomiya Y, et al. **Am J Ophthalmol** 1996 Nov;122(5):613–21

FOWL ADENOVIRUS 1 see **AVIADENOVIRUS**

FOWL DIPHTHERIA see **FOWLPOX**

FOWL PARALYSIS see **MAREK'S DISEASE**

FOWL PARALYSIS VIRUS see **HERPESVIRUS 2, GALLID**

FOWL PEST see **FOWL PLAGUE**

FOWL PLAGUE

DIAGNOSIS

Identification and characterisation of an H7N3 influenza A virus from an outbreak of virulent avian influenza in Victoria. Selleck PW, et al. **Aust Vet J** 1997 Apr; 75(4):289–92

Pathogenicity and diagnosis of H5N2 Mexican avian influenza viruses in chickens. Swayne DE, et al. **Avian Dis** 1997 Apr–Jun;41(2):335–46

EPIDEMIOLOGY

Identification and characterisation of an H7N3 influenza A virus from an outbreak of virulent avian influenza in Victoria. Selleck PW, et al. **Aust Vet J** 1997 Apr; 75(4):289–92

GENETICS

Susceptibility of pigeons to avian influenza. Panigrahy B, et al. **Avian Dis** 1996 Jul–Sep;40(3):600–4

IMMUNOLOGY

Immunity to Mexican H5N2 avian influenza viruses induced by a fowl pox-H5 recombinant. Webster RG, et al. **Avian Dis** 1996 Apr–Jun;40(2):461–5

Serological survey for avian viruses in houbara bustards (Chlamydotis undulata macqueenii). Bailey TA, et al. **Vet Rec** 1996 Sep 7;139(10):238–9

PATHOLOGY

Comparative pathology of chickens experimentally inoculated with avian influenza viruses of low and high pathogenicity. Mo IP, et al. **Avian Dis** 1997 Jan–Mar; 41(1):125–36

Neuropathological studies of chickens infected with highly pathogenic avian influenza viruses. Kobayashi Y, et al. **J Comp Pathol** 1996 Feb;114(2):131–47

Enhanced neuropathogenicity of avian influenza A virus by passages through air sac and brain of chicks. Silvano FD, et al. **J Vet Med Sci** 1997 Mar;59(3):143–8

PHYSIOPATHOLOGY

Assessment of the ability of ratite-origin influenza viruses to infect and produce disease in rheas and chickens. Swayne DE, et al. **Avian Dis** 1996 Apr–Jun;40(2):438–47

PREVENTION & CONTROL

Immunity to Mexican H5N2 avian influenza viruses induced by a fowl pox-H5 recombinant. Webster RG, et al. **Avian Dis** 1996 Apr–Jun;40(2):461–5

Prevention of entry of avian influenza and paramyxoviruses into an ornithological collection. Shortridge KF, et al. **Vet Rec** 1997 Apr 5;140(14):373–4

VIROLOGY

[Avian influenza a potential threat for poultry farming] Landman WJ. **Tijdschr Diergeneeskd** 1996 Nov 15; 121(22):651–2 **(Dut)**

FOWL PLAGUE VIRUS see **INFLUENZA A VIRUS, AVIAN**

FOWLPOX

DIAGNOSIS

Application of the polymerase chain reaction for the diagnosis of fowl poxvirus infection. Huw Lee L, et al. **J Virol Methods** 1997 Jan;63(1–2):113–9

PATHOLOGY

Squamous cell carcinoma–like and pox lesions occurring simultaneously in chorioallantoic membranes of chicken embryos inoculated with materials from squamous cell carcinoma and pox lesions in broiler chickens. Fallavena LC, et al. **Avian Dis** 1997 Apr–Jun;41(2):469–71

Debilitating cutaneous poxvirus infection in a Hodgson's grandala (Grandala coelicolor). Orós J, et al. **Avian Dis** 1997 Apr–Jun;41(2):481–3

PREVENTION & CONTROL

Evaluation of a commercial modified live virus fowl pox vaccine for the control of "variant" fowl poxvirus infections. Fatunmbi OO, et al. **Avian Dis** 1996 Jul–Sep; 40(3):582–7

FOWLPOX VIRUS

GENETICS

Restriction fragment analysis of fowlpox virus using Bgl I, Bam HI, Hha I and Sma I restriction endonucleases. Mishra SS, et al. **Indian J Exp Biol** 1996 Oct;34(10):959–63

Field and vaccine strains of fowlpox virus carry integrated sequences from the avian retrovirus, reticuloendotheliosis virus. Hertig C, et al. **Virology** 1997 Sep 1;235(2):367–76

Recombinant fowlpox virus vaccines against Australian virulent Marek's disease virus: gene sequence analysis and comparison of vaccine efficacy in specific pathogen free and production chickens. Heine HG, et al. **Virus Res** 1997 Jul;50(1):23–33

IMMUNOLOGY

Protection and synergism by recombinant fowl pox vaccines expressing genes from Marek's disease virus. Nazerian K, et al. **Avian Dis** 1996 Apr–Jun;40(2):368–76

Immunity to Mexican H5N2 avian influenza viruses induced by a fowl pox–H5 recombinant. Webster RG, et al. **Avian Dis** 1996 Apr–Jun;40(2):461–5

Recombinant fowlpox virus vaccines against Australian virulent Marek's disease virus: gene sequence analysis and comparison of vaccine efficacy in specific pathogen free and production chickens. Heine HG, et al. **Virus Res** 1997 Jul;50(1):23–33

FOWLS, DOMESTIC see **POULTRY**

FOX-FORDYCE DISEASE

PATHOLOGY

Fox–Fordyce disease in two prepubertal girls: histopathologic demonstration of eccrine sweat gland involvement. Ranalletta M, et al. **Pediatr Dermatol** 1996 Jul–Aug;13(4):294–7

FOXES

Rabies in New Hampshire and Vermont: an update. Brown CI, et al. **Ann Clin Lab Sci** 1997 May–Jun;27(3):216–23 (17 ref.)

Newfoundland and Labrador veterinarians promote dog vaccinations. Clarke L. **Can Vet J** 1997 Jan;38(1):16 **(Eng, Fre)**

Time course of coproantigen excretion in Echinococcus multilocularis infections in foxes and an alternative definitive host, golden hamsters. Nonaka N, et al. **Int J Parasitol** 1996 Nov;26(11):1271–8

Isolation of Yersinia pseudotuberculosis and Listeria monocytogenes serotype 4 from a gray fox (Urocyon cinereoargenteus) with canine distemper. Black SS, et al. **J Wildl Dis** 1996 Apr;32(2):362–6

Cluster of rabies cases of probable bat origin among red foxes in Prince Edward Island, Canada. Daoust PY, et al. **J Wildl Dis** 1996 Apr;32(2):403–6

Seroprevalence of orthopox virus specific antibodies in red foxes (Vulpes vulpes) in the Federal State Brandenburg, Germany. Müller T, et al. **J Wildl Dis** 1996 Apr; 32(2):348–53

A bait-delivered immunocontraceptive vaccine for the European red fox (Vulpes vulpes) by the year 2002? Bradley MP, et al. **Reprod Fertil Dev** 1997;9(1):111–6 (20 ref.)

Can foxes be controlled by reducing their fertility? Pech R, et al. **Reprod Fertil Dev** 1997;9(1):41–50 (28 ref.)

Pesticide poisoning of animals of wild fauna. Antoniou V, et al. **Vet Hum Toxicol** 1996 Jun;38(3):212–3

Effectiveness of SAG1 oral vaccine for the long-term protection of red foxes (Vulpes vulpes) against rabies. Artois M, et al. **Vet Rec** 1997 Jan 18;140(3):57–9

Rabies and quarantine [letter] Carwardine P. **Vet Rec** 1996 Dec 14;139(24):604

Disease risk from "fox middens' [letter] Milne EM, et al. **Vet Rec** 1997 Feb 1;140(5):135–6

Angiostrongylus vasorum infection in foxes (Vulpes vulpes) in Cornwall. Simpson VR. **Vet Rec** 1996 Nov 2; 139(18):443–45

Filariosis in foxes in Italy. Marconcini A, et al. **Vet Res Commun** 1996;20(4):316–9

Experimental Aujeszky's disease in blue foxes (Alopex lagopus). Quiroga MI, et al. **Zentralbl Veterinarmed A** 1995 Dec;42(10):649–57

ANATOMY & HISTOLOGY

Morphological peculiarities of respiratory compartments of arctic animal lungs. Shishkin GS, et al. **Anat Rec** 1997 Apr; 247(4):496–500

Reference data on the anatomy, hematology and biochemistry of 9–month–old silver foxes. Zhan YM, et al. **Jpn J Vet Res** 1997 May;45(1):13–9

BLOOD

[Circadian changes in the levels of sex and glucocorticoid hormones in the peripheral blood plasma of female silver foxes] Osadchuk LV. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):70–7 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

A noninvasive method for distinguishing among canid species: amplification and enzyme restriction of DNA from dung. Paxinos E, et al. **Mol Ecol** 1997 May;6(5):483–6

Visceral leishmaniasis in the hoary zorro Dusicyon vetulus: a case of mistaken identity. Courtenay O, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):498–502

GENETICS

Chromosome localization of the genes for growth hormone, somatostatin peptide, ornithine transcarbamylase, and prion protein in silver fox (Vulpes fulvus). Koroleva IV, et al. **Mamm Genome** 1996 Nov;7(11):860–2

Microsatellite differentiation between Phillip Island and mainland Australian populations of the red fox Vulpes vulpes. Lade JA, et al. **Mol Ecol** 1996 Feb;5(1):81–7

A noninvasive method for distinguishing among canid species: amplification and enzyme restriction of DNA from dung. Paxinos E, et al. **Mol Ecol** 1997 May;6(5):483–6

A non–epistatic interaction of agouti and extension in the fox, Vulpes vulpes. Våge DI, et al. **Nat Genet** 1997 Mar; 15(3):311–5

[Effect of domestication of the silver fox on the main enzymes of serotonin metabolism and serotonin receptors] Popova NK, et al. **Genetika** 1997 Mar;33(3):370–4 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Duration of immunity in foxes vaccinated orally with ERA vaccine in a bait. Lawson KF, et al. **Can J Vet Res** 1997 Jan;61(1):39–42

Safety study of the SAG2 rabies virus mutant in several non–target species with a view to its future use for the immunization of foxes in Europe. Masson E, et al. **Vaccine** 1996 Nov;14(16):1506–10

Progress and setbacks in the oral immunisation of foxes against rabies in Europe. Stöhr K, et al. **Vet Rec** 1996 Jul 13;139(2):32–5

METABOLISM

Liver fatty acid composition and peroxisomal fatty acid oxidase activity in blue foxes (Alopex lagopus) and mink (Mustela vison) fed diets containing different levels of fish oil. Ahlstrøm O, et al. **Comp Biochem Physiol A Physiol** 1997 May;117(1):135–40

[The circadian dynamics of the biochemical activity of the epiphysis in silver foxes] Kolesnikova LA, et al. **Izv Akad Nauk Ser Biol** 1997 May–Jun;(3):380–4 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Improvement of a polymerase chain reaction assay for the detection of Echinococcus multilocularis DNA in faecal samples of foxes. Monnier P, et al. **Vet Parasitol** 1996 Dec 31;67(3–4):185–95

PARASITOLOGY

Chemotherapy with praziquantel has the potential to reduce the prevalence of Echinococcus multilocularis in wild foxes (Vulpes vulpes). Schelling U, et al. **Ann Trop Med Parasitol** 1997 Mar;91(2):179–86

An improved test system for PCR–based specific detection of Echinococcus multilocularis eggs. Mathis A, et al. **J Helminthol** 1996 Sep;70(3):219–22

A helminthological survey of wild red foxes (Vulpes vulpes) from the metropolitan area of Copenhagen. Willingham AL, et al. **J Helminthol** 1996 Sep;70(3):259–63

Evidence of potential gene flow in Trichinella spiralis and in Trichinella britovi in nature. Pozio E, et al. **J Parasitol** 1997 Feb;83(1):163–6

Hepatozoon canis infection of wild carnivores in Brazil. Alencar NX, et al. **Vet Parasitol** 1997 Jul 1;70(4):279–82

Intestinal helminths of the red fox (Vulpes vulpes L.) in Galicia (Northwest Spain). Alvarez MF, et al. **Wiad Parazytol** 1995;41(4):429–42

On Physaloptera sibirica Petrow et Gorbunow, 1931 (Nematoda: Physalopteridae) parasitizing Iberian mammals. Miquel J, et al. **Wiad Parazytol** 1996;42(4):435–42

[The "dangerous fox tapeworm" (Echinococcus multilocularis) and alveolar echinococcosis of humans in central Europe] Eckert J. **Berl Munch Tierarztl Wochenschr** 1996 Jun–Jul; 109(6–7):202–10 (73 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Effects of handling and physical restraint on rectal temperature, cortisol, glucose and leucocyte counts in the silver fox (Vulpes vulpes). Moe RO, et al. **Acta Vet Scand** 1997;38(1):29–39

[Spermatogenesis and the testosterone level in young male silver foxes in their reproductive period] Osadchuk LV, et al. **Fiziol Zh Im I M Sechenova** 1996 May–Jun; 82(5–6):102–8 (Eng. Abstr.) **(Rus)**

VIROLOGY

[Isolation and identification of Lyssavirus strains from an area of Slovakia where oral antirabies vaccine was administered] Ondrejka R, et al. **Vet Med (Praha)** 1997 Feb;42(2):57–60 (Eng. Abstr.) **(Slo)**

FOXGLOVE see **DIGITALIS**

FPLV see **PARVOVIRUS, FELINE**

FRACTALS

see related

NONLINEAR DYNAMICS

Diffuse nodular lung disease on chest radiographs: a pilot study of characterization by fractal dimension. Floyd CE Jr, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1185–7

A comparison of analytical methods for the study of fractional Brownian motion. Fischer R, et al. **Ann Biomed Eng** 1996 Jul–Aug;24(4):537–43

Fractal signature analysis measures cancellous bone organisation in macroradiographs of patients with knee osteoarthritis. Buckland-Wright JC, et al. **Ann Rheum Dis** 1996 Oct;55(10):749–55

Antigen–antibody binding kinetics for biosensors. Changes in the fractal dimension (surface roughness) and in the binding rate coefficient. Sadana A, et al. **Appl Biochem Biotechnol** 1996 Aug;60(2):123–38 (37 ref.)

Antigen–antibody binding kinetics for biosensor applications. A dual–fractal analysis. Sadana A, et al. **Appl Biochem Biotechnol** 1997 Feb–Mar;62(2–3):275–90

Fractal property of eye movements in schizophrenia. Yokoyama H, et al. **Biol Cybern** 1996 Aug;75(2):137–40

Influence of diffusion to fractal surfaces on the binding kinetics for antibody–antigen, analyte–receptor, and analyte–receptorless (protein) systems. Sadana A, et al. **Biophys Chem** 1997 Mar 27;65(1):29–44

Fractal representation of the immune B cell repertoire. Burgos JD. **Biosystems** 1996;39(1):19–24

Generation of fractals from incursive automata, digital diffusion and wave equation systems. Dubois DM. **Biosystems** 1997;43(2):97–114

The characterization of broadband ultrasound attenuation and fractal analysis by biomechanical properties. Rho JY, et al. **Bone** 1997 May;20(5):497–504

Assessing the degree of osteoporosis in the axial skeleton using the dependence of the fractal dimension on the grey level threshold. Haidekker MA, et al. **Br J Radiol** 1997 Jun;70(834):586–93

Darwinian evolution by self–propagating species under fractional order kinetics. Davis BK. **Bull Math Biol** 1996 Jan;58(1):99–101

Fractal structure of caries. Gonzalez–Gonzalez JM. **Caries Res** 1997;31(3):186–8

The fractal structure of caries? [letter] Landini G. **Caries Res** 1997;31(5):401

Three–dimensional fractal analysis of the white matter surface from magnetic resonance images of the human brain. Free SL, et al. **Cereb Cortex** 1996 Nov–Dec; 6(6):830–6

Circadian rhythmic fractal scaling of heart rate variability in health and coronary artery disease. Otsuka K, et al. **Clin Cardiol** 1997 Jul;20(7):631–8

Fractal component of variability of heart rate and systolic blood pressure in congestive heart failure. Butler GC, et al. **Clin Sci (Colch)** 1997 Jun;92(6):543–50

Using fractals and nonlinear dynamics to determine the physical properties of ion channel proteins. Liebovitch LS, et al. **Crit Rev Neurobiol** 1996;10(2):169–87 (53 ref.)

Fractal geometry, fractal kinetics and chaos en route to biopharmaceutical sciences. Macheras P, et al. **Eur J Drug Metab Pharmacokinet** 1996 Apr–Jun; 21(2):77–86 (49 ref.)

Supraspinal effects on the fractal correlation in human H–reflex. Nozaki D, et al. **Exp Brain Res** 1996 Nov; 112(1):112–8

Fractal analysis of adults cerebellum surface NMR observations. Rybaczuk M, et al. **Folia Morphol (Warsz)** 1996;55(4):431–3

Fractal description of cerebellum surface during fetal period. Rybaczuk M, et al. **Folia Morphol (Warsz)** 1996;55(4):434–6

Differentiation of neurons populations based on fractal

dimension. Skrzat J, et al. **Folia Morphol (Warsz)** 1996; 55(4):444–6

Input impedance and reflection coefficient in fractal-like models of asymmetrically branching compliant tubes. Brown DJ. **IEEE Trans Biomed Eng** 1996 Jul;43(7):715–22

Fractalkine--a strange attractor in the chemokine landscape. Schall T. **Immunol Today** 1997 Apr;18(4):147

Classification of lung tumors on chest radiographs by fractal texture analysis. Peiss J, et al. **Invest Radiol** 1996 Oct; 31(10):625–9

Fractal noise strength in auditory-nerve fiber recordings. Kelly OE, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2210–20

Predictive value for future arrhythmic events of fractal dimension, a measure of time clustering of ventricular premature complexes, after myocardial infarction. CAST Investigators. Cardia Arrhythmia Suppression Trial. Anderson JL, et al. **J Am Coll Cardiol** 1997 Jul;30(1):226–32

Fractal analysis of cytoskeleton rearrangement in cardiac muscle during head-down tilt. Thomason DB, et al. **J Appl Physiol** 1996 Oct;81(4):1522–7

Change in trabecular architecture as measured by fractal dimension. Berry JL, et al. **J Biomech** 1996 Jun; 29(6):819–22

Fractals for multicyclic synthesis conditions of biopolymers. Examples of oligonucleotide synthesis measured by high-performance capillary electrophoresis and ion-exchange high-performance liquid chromatography. Földes-Papp Z, et al. **J Chromatogr A** 1996 Jul 19; 739(1–2):431–47

Measuring fractal dimension and complexity--an alternative approach with an application. Sandau K, et al. **J Microsc** 1997 May;186 (Pt 2):164–76

Fractal methods and results in cellular morphology--dimensions, lacunarity and multifractals. Smith TG JR, et al. **J Neurosci Methods** 1996 Nov; 69(2):123–36 (35 ref.)

Fractal character of the neural spike train in the visual system of the cat. Teich MC, et al. **J Opt Soc Am A** 1997 Mar; 14(3):529–46

Fractals in restorative treatment of teeth. Gonzalez-Gonzalez JM. **J Oral Rehabil** 1997 Jan;24(1):52–6

Fractals in pathology. Cross SS. **J Pathol** 1997 May; 182(1):1–8 (74 ref.)

Fractal analysis: a new method for evaluating fetal heart rate variability. di Renzo GC, et al. **J Perinat Med** 1996; 24(3):261–9

Is periodontal breakdown a fractal process? Simulations using the Weierstrass-Mandelbrot function. Landini G. **J Periodontal Res** 1997 Apr;32(3):300–7

Characterisation of structural changes in the arterial elastic matrix by a new fractal feature: directional fractal curve. Jiang CF, et al. **Med Biol Eng Comput** 1997 May; 35(3):246–52

Estimation of fractal dimension in radiographs. Veenland JF, et al. **Med Phys** 1996 Apr;23(4):585–94

Fractals and the birth of Gothic: reflections on the biologic basis of creativity. Goldberger AL. **Mol Psychiatry** 1996 May;1(2):99–104 (33 ref.)

Fractal dimensions of short EEG time series in humans. Preissl H, et al. **Neurosci Lett** 1997 Apr 4;225(2):77–80

The effect of image variations on fractal dimension calculations. Shrout MK, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jul;84(1):96–100

Fractal dimension in radiographic analysis of alveolar process bone. Southard TE, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):569–76

Fractal variability versus pathologic periodicity: complexity loss and stereotypy in disease. Goldberger AL. **Perspect Biol Med** 1997 Summer;40(4):543–61 (42 ref.)

A fractal approach to heterogeneous drug distribution: calcium pharmacokinetics. Macheras P. **Pharm Res** 1996 May;13(5):663–70

Anisotropy measurements obtained by fractal analysis of trabecular bone at the calcaneus and radius. Lespessailles E, et al. **Rev Rhum Engl Ed** 1996 May;63(5):337–43

A general model for the origin of allometric scaling laws in biology [see comments] West GB, et al. **Science** 1997 Apr 4;276(5309):122–6. Comment in: Science 1997 Apr 4;276(5309):34.

Fractal geometry gets the measure of life's scales [news; comment] [see comments] Williams N. **Science** 1997 Apr 4;276(5309):34. Comment on: Science 1997 Apr 4;276(5309):122–6. Comment in: Science 1997 Jun 13;276(5319):1633.

Fractal tumours: their real and virtual images. Sedivy R. **Wien Klin Wochenschr** 1996;108(17):547–51

[Fractal surface analysis of intrapulmonary space-occupying lesions from high-resolution CT studies] Beier J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):296–302 (Eng. Abstr.) **(Ger)**

[Fractal self-organization in Escherichia coli populations: experimental study] Krest'eva IB, et al. **Dokl Akad Nauk** 1996 Nov;351(3):406–9 **(Rus)**

[Fractal self-organization in Escherichia coli bacteria populations: computer simulation] Tsyganov MA, et al. **Dokl Akad Nauk** 1996 Dec;351(4):561–4 **(Rus)**

[The allegorized clinical act: uncertainty and disorder] Portera Sánchez A. **An R Acad Nac Med (Madr)** 1996; 113(2):493–508; discussion 508–11 **(Spa)**

FRACTIONAL PRECIPITATION

Bulk purification by fractional precipitation. Doonan S. **Methods Mol Biol** 1996;59:135–44

[Heparin-induced extracorporeal LDL precipitation (HELP) in therapy refractory hypercholesterolemia and coronary heart disease: effect on clinical and morphological regression of coronary sclerosis] Schuff-Werner P. **Z Kardiol** 1997;86 Suppl 1:57–64 (30 ref.) (Eng. Abstr.) **(Ger)**

FRACTIONATION

METHODS

The choice of plasma-derived clotting factor concentrates. Mannucci PM. **Baillieres Clin Haematol** 1996 Jun; 9(2):273–90 (75 ref.)

High-speed particle separation and steric inversion in thin flow field-flow fractionation channels. Jensen KD, et al. **J Chromatogr A** 1996 Oct 4;746(1):137–45

FRACTURE FIXATION

see related
EXTERNAL FIXATORS
ORTHOPEDIC FIXATION DEVICES

External fixation for distal radius fractures: adverse effects of excess distraction. Kaempffe FA. **Am J Orthop** 1996 Mar;25(3):205–9 (25 ref.)

Sequential intramedullary nailing of open tibial shaft fractures after external fixation. Siebenrock KA, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):32–6

Resorbable polymeric inserts as a means of enhancing fixation of fractures of porotic bones. I. Stability of mechanical properties and viscoelasticity of the inserts aged in vitro. Mainil-Varlet P, et al. **Biomaterials** 1997 Feb;18(4):289–93

Use of a pneumatic tourniquet induces changes in central temperature. Estebe JP, et al. **Br J Anaesth** 1996 Dec; 77(6):786–8

Current trends in the treatment of femoral shaft fractures in children and adolescents. Buckley SL. **Clin Orthop** 1997 May;(338):60–73 (66 ref.)

The role of internal fixation in the treatment of Jones fractures in diabetics. Yue JJ, et al. **Foot Ankle Int** 1996 Sep;17(9):559–62

Outcome after pelvic ring fractures: evaluation using the medical outcomes short form SF-36. Oliver CW, et al. **Injury** 1996 Nov;27(9):635–41

Fractures of the acetabulum: accuracy of reduction and clinical results in patients managed operatively within three weeks after the injury. Matta JM. **J Bone Joint Surg Am** 1996 Nov;78(11):1632–45

Management of distal radius fractures. Laseter GF, et al. **J Hand Ther** 1996 Apr-Jun;9(2):114–28 (105 ref.)

Use of the Medoff sliding plate for subtrochanteric hip fractures. Kummer FJ, et al. **J Orthop Trauma** 1997 Apr; 11(3):180–2

Radiocarpal articular pressures during the reduction of distal radius fractures. Schuind FA, et al. **J Orthop Trauma** 1997 May;11(4):295–9

Early complications in the operative treatment of patella fractures. Smith ST, et al. **J Orthop Trauma** 1997 Apr; 11(3):183–7

Severe (type III) open fractures of the tibia in children. Buckley SL, et al. **J Pediatr Orthop** 1996 Sep-Oct; 16(5):627–34

Fractures of the distal radius in adults. Amadio PC. **J South Orthop Assoc** 1994 Winter;3(4):312–22 (42 ref.)

External fixation in patients with panvertebral osteomyelitis and paraplegia. Hurley ME, et al. **Paraplegia** 1996 Feb; 34(2):113–5

The effect of fracture and fracture fixation on ultrasonic velocity and attenuation. Saulgozis J, et al. **Physiol Meas** 1996 Aug;17(3):201–11

[Fractures of the distal end of the forearm and treatment with external fixation] Zasche F, et al. **Rozhl Chir** 1996 Mar;75(3):121–4 (Eng. Abstr.) **(Cze)**

[Unstable fractures of the distal radius: a new classification] Milliez PY, et al. **Int Orthop** 1996;20(1):15–22 (Eng. Abstr.) **(Fre)**

[Experimental study of the stabilization capability of upper metaphyseal tibial fractures by different types of external fixators] Dujardin F, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):500–7 (Eng. Abstr.) **(Fre)**

[Anatomical and functional results of the external fixation of upper metaphyseal tibial fractures] Dujardin F, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):490–9 (Eng. Abstr.) **(Fre)**

[Value of orthopedic treatment of distal fractures of the forearm in children. Apropos of 152 cases] Prévot N, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997; 83(3):251–8 (Eng. Abstr.) **(Fre)**

[External humeral fixation in war injuries] Norman D, et al. **Harefuah** 1996 Nov 1;131(9):310–2, 375 (Eng. Abstr.) **(Heb)**

[Analysis of results of treatment of open and unstable grade II and III fractures in the calf] Has B, et al. **Lijec Vjesn** 1996 Mar-Apr;118(3–4):57–9 (Eng. Abstr.) **(Scr)**

ADVERSE EFFECTS

Ischaemic anterior interosseus nerve injuries following supracondylar fractures of the humerus in children [letter; comment] Combalia A, et al. **Injury** 1996 Sep;27(7):530. Comment on: Injury 1995 Jun;26(5):343–4.

Orthofix external fixation of distal radius fractures: complications associated with screw size. Gainor BJ, et al. **J South Orthop Assoc** 1994 Winter;3(4):299–302

Diskitis associated with transpedicular screw fixation. Hamilton W, et al. **J Spinal Disord** 1996 Feb;9(1):68–71

Early fracture fixation may be deleterious after head injury [letter; comment] Anglen JO. **J Trauma** 1997 May; 42(5):981–2; discussion 983. Comment on: J Trauma 1997 Jan;42(1):1–5; discussion 5–6.

Early fracture fixation may be deleterious after head injury [see comments] Jaicks RR, et al. **J Trauma** 1997 Jan; 42(1):1–5; discussion 5–6. Comment in: J Trauma 1997 May;42(5):981; discussion 983. Comment in: J Trauma 1997 May;42(5):981–2; discussion 983. Comment in: J Trauma 1997 May;42(5):982–3.

Early fracture fixation may be deleterious after head injury [letter; comment] Seligson D, et al. **J Trauma** 1997 May; 42(5):982–3. Comment on: J Trauma 1997 Jan;42(1):1–5; discussion 5–6.

Early fracture fixation may be deleterious after head injury [letter; comment] Starr AJ. **J Trauma** 1997 May;42(5):981; discussion 983. Comment on: J Trauma 1997 Jan;42(1):1–5; discussion 5–6.

ECONOMICS

Economic evaluation of 2 treatments for pediatric femoral shaft fractures. Coyte PC, et al. **Clin Orthop** 1997 Mar; (336):205–15

HISTORY

Early limb salvage: open tibia fractures of Ambroise Paré (1510–1590) and Percivall Pott (1714–1789). Kocher MS. **World J Surg** 1997 Jan;21(1):116–22

INSTRUMENTATION

A new functional brace for the treatment of Colles' fractures [letter] Moiz M. **Injury** 1996 Dec;27(10):756

Comparative biomechanics of the sliding screw-plate and the Bousquet nail-plate. Steriopoulos K, et al. **Int Orthop** 1996;20(1):51–4

Fracture bracing for proximal phalanx fractures. Oxford KL, et al. **J Hand Ther** 1996 Oct-Dec;9(4):404–5

A simple technique for creating hybrid fixators using a modified AO single adjustable clamp. Remiger AR, et al. **J Orthop Trauma** 1997 Jan;11(1):54–6

The use of external fixators in femur fractures in children. de Sanctis N, et al. **J Pediatr Orthop** 1996 Sep-Oct; 16(5):613–20

External fixation of children's fractures: use of the Orthofix Dynamic Axial Fixator. Hull JB, et al. **J Pediatr Orthop B** 1997 Jul;6(3):203–6

Force measurement on fracture site with external fixation. Wang ZG, et al. **Med Biol Eng Comput** 1997 May; 35(3):289–90

Simple appliance for reduction of facial skeletal fractures [letter] Taher AA. **Plast Reconstr Surg** 1997 Jan;99(1):272–3

[External fixation in the foot and distal portion of the leg] Kameníček V. **Rozhl Chir** 1997 May;76(5):239–41 (Eng. Abstr.) **(Cze)**

[Personal modification of the Molskich apparatus for treatment bone loss from segment transposition] Mazurkiewicz Z, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):499–503 (Eng. Abstr.) **(Pol)**

METHODS

Radial head fractures: operative or conservative treatment? The Greek temple model. Hammacher ER, et al. **Acta Orthop Belg** 1996;62 Suppl 1:112–5

Management of infected defect nonunion of the metacarpals. Ebraheim NA, et al. **Am J Orthop** 1997 May;26(5):362–4

The effect of a pneumatic leg brace on return to play in athletes with tibial stress fractures. Swenson EJ Jr, et al. **Am J Sports Med** 1997 May-Jun;25(3):322–8

A retrospective evaluation of operative treatment of ankle fractures. Low CK, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):172–4

External fixation of intra-articular fracture of the distal radius in young and old adults. Huch K, et al. **Arch Orthop Trauma Surg** 1996;115(1):38–42

Suspended circummandibular wire fixation for mixed-dentition pediatric mandible fractures. Nishioka GJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul; 123(7):753–8

Technique for arthroscopic suture fixation of displaced tibial intercondylar eminence fractures. Kogan MG, et al. **Arthroscopy** 1997 Jun;13(3):301–6

Arthroscopic management of tibial plateau fractures: special techniques. Perez Carro L. **Arthroscopy** 1997 Apr; 13(2):265–7

A modification of sub-mental intubation. Green JD, et al. **Br J Anaesth** 1996 Dec;77(6):789–91

An audit of mandibular fractures treated by intermaxillary fixation, intraosseous wiring and compression plating. Zachariades N, et al. **Br J Oral Maxillofac Surg** 1996 Aug;

34(4):293–7
Circular fixation for forearm fractures. Seligson D, et al. **Bull Hosp Jt Dis** 1997;56(1):22–5 (17 ref.)
Dynamic external fixation for distal radius fractures. Dienst M, et al. **Clin Orthop** 1997 May;(338):160–71
Fractures of the hand. Corley FG Jr, et al. **Clin Plast Surg** 1996 Jul;23(3):447–62 (63 ref.)
Treatment of fractures of the fifth metatarsal: a prospective study. Wiener BD, et al. **Foot Ankle Int** 1997 May; 18(5):267–9
Indications and techniques of external fixation of the injured pelvis. Bircher MD. **Injury** 1996;27 Suppl 2:B3–19 (12 ref.)
Biological fixation of subtrochanteric fractures by external fixation. Dhal A, et al. **Injury** 1996 Dec;27(10):723–31
Late reconstruction after pelvic ring injuries. Gautier E, et al. **Injury** 1996;27 Suppl 2:B39–46 (24 ref.)
The fate of the syndesmosis in type C ankle fractures: a cadaveric study. Harris IA, et al. **Injury** 1997 May; 28(4):275–7
External fixation in unstable intertrochanteric fractures of femur [letter; comment] Krikler SJ. **Injury** 1996 Dec; 27(10):756. Comment on: Injury 1996 Mar;27(2):139–42.
Subtrochanteric fractures of the femur. Parker MJ, et al. **Injury** 1997 Mar;28(2):91–5
Outcome after pelvic ring injuries. Pohlemann T, et al. **Injury** 1996;27 Suppl 2:B31–8
Dynamic external fixation versus non-operative treatment of severe distal radial fractures [letter; comment] Rodríguez-Merchán EC. **Injury** 1996 Dec;27(10):755–6. Comment on: Injury 1996 Jan;27(1):57–61.
A surgical protocol for combined internal and external fixation of complex intraarticular distal radius fractures using dorsal and volar approaches. Jebson PJ, et al. **Iowa Orthop J** 1996;16:35–8
Simulated Bennett fracture treated with closed reduction and percutaneous pinning. A biomechanical analysis of residual incongruity of the joint. Cullen JP, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):413–20
Cancellous grafting and external fixation for unstable Colles' fractures. Cannegieter DM, et al. **J Bone Joint Surg Br** 1997 May;79(3):428–32
Percutaneous fixation of three- and four-part fractures of the proximal humerus. Resch H, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):295–300
Operative fixation of Monteggia fractures in children. Ring D, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):734–9
Management of nonunion of fractures by distraction with correction of angulation and shortening. Saleh M, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):105–9
Treatment of unstable distal radius fractures: methods and comparison of external distraction and ORIF versus external distraction–ORIF neutralization. Putnam MD, et al. **J Hand Surg [Am]** 1997 Mar;22(2):238–51
Intra-articular fractures of the distal end of the radius treated with an adjustable fixator system. Zanotti RM, et al. **J Hand Surg [Am]** 1997 May;22(3):428–40
Management of nail-bed fracture-lacerations using a tension-band suture. Bindra RR. **J Hand Surg [Br]** 1996 Nov;21(6):1111–3
Mandibular fracture in a neonate: report of a case. Chidzonga MM. **J Oral Maxillofac Surg** 1996 Dec;54(12):1452–4
Repair of five distal radius fractures with an investigational cancellous bone cement: a preliminary report. Jupiter JB, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):110–6
External fixation of pediatric femur fractures. Blasier RD, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):342–6
Open fractures of the tibia and femur in children. Robertson P, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):621–6
Open fractures of the tibia in children. Song KM, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):635–9
Modern trends for external fixation of fractures in children: a critical review. Hull JB, et al. **J Pediatr Orthop B** 1997 Apr;6(2):103–9 (24 ref.)
Presidential address. Changes in the care of children's fractures. Green NE. **J South Orthop Assoc** 1997 Spring; 6(1):48–53
Spiral blade plate fixation for pathologic subtrochanteric femur fractures. Scully SP, et al. **J Surg Oncol** 1997 Apr; 64(4):352
The mechanical properties of catgut in holding and bonding fractured bones. Othman MO, et al. **Med Eng Phys** 1996 Oct;18(7):584–90
External fixation for pelvic ring disruptions. Yang AP, et al. **Orthop Clin North Am** 1997 Jul;28(3):331–44 (11 ref.)
A proximal interphalangeal joint fracture-dislocation treated by limited open (percutaneous) reduction and dynamic external fixation [letter] Skoff HD. **Plast Reconstr Surg** 1997 Feb;99(2):587–9 (23 ref.)
Rigid plate versus wire fixation for zygoma fracture [letter; comment] Top H, et al. **Plast Reconstr Surg** 1996 Nov; 98(6):1117–8. Comment on: Plast Reconstr Surg 1995 Sep;96(3):570–5.
Closed reduction and external fixation of unstable fractures of the distal radius. Hove LM, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):159–64
Acute axis fractures. Analysis of management and outcome in 340 consecutive cases. Greene KA, et al. **Spine** 1997 Aug 15;22(16):1843–52
Stabilizing properties of the halo apparatus. Mirza SK, et al. **Spine** 1997 Apr 1;22(7):727–33
[Treatment of distal forearm fractures using external fixation] Fleiberk L. **Rozhl Chir** 1996 Aug;75(8):404–6 (Eng. Abstr.) **(Cze)**
[Differentiated protocol for the conservative/surgical treatment of ankle fractures in adults (see comments)] Van Laarhoven CJ, et al. **Ned Tijdschr Geneeskd** 1996 Nov 23; 140(47):2342–9 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2320–1. **(Dut)**
[Differentiated protocol for the conservative/surgical treatment of ankle fractures in children (see comments)] Van Laarhoven CJ, et al. **Ned Tijdschr Geneeskd** 1996 Nov 23;140(47):2337–41 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2320–1. **(Dut)**
[Apropos of the article: "Reduction and synthesis of wrist fractures: comparative study of the method of Kapandji and that of Py" (comment)] Desmanet E. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):672. Comment on: Rev Chir Orthop Reparatrice Appar Mot 1994;80(2):94–107. **(Fre)**
[Ipsilateral fractures of the femoral and tibial diaphyses] Schiedts D, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):535–40 (Eng. Abstr.) **(Fre)**
[Treatment principles in aseptic pseudarthrosis] Kuner EH, et al. **Orthopade** 1996 Sep;25(5):394–404 (Eng. Abstr.) **(Ger)**
[Hip dislocations and hip fractures--acetabular fractures. Indication, technique and results of conservative treatment] Weise K, et al. **Orthopade** 1997 Apr;26(4):336–47 (Eng. Abstr.) **(Ger)**
[Clinical use of resorbable polymer mini-plates in mandibular fractures: a one-year experience] Tartaro GP, et al. **Minerva Stomatol** 1996 Jul–Aug;45(7–8):305–9 (Eng. Abstr.) **(Ita)**
[Differentiated treatment of wrist injuries] Hove LM. **Tidsskr Nor Laegeforen** 1996 Oct 30;116(26):3091–2 **(Nor)**
[Unstable fractures of the distal radius. External fixation or percutaneous pinning?] Ludvigsen TC, et al. **Tidsskr Nor Laegeforen** 1996 Oct 30;116(26):3093–7 (Eng. Abstr.) **(Nor)**
[A fixator-pin-wire-plaster technique in war conditions] Hadžiahmetović Z. **Med Arh** 1995;49(1–2):23–5 (Eng. Abstr.) **(Scr)**

STANDARDS

A multicentre audit of unilateral fractures of the mandibular condyle. Mitchell DA. **Br J Oral Maxillofac Surg** 1997 Aug;35(4):230–6

VETERINARY

Surgical management of a foal with a humerus-radius-ulna fracture. Auer JA, et al. **Equine Vet J** 1996 Sep; 28(5):416–20
Closed reduction and type-II external fixation of comminuted fractures of the radius and tibia in dogs: 23 cases (1990–1994). Johnson AL, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1445–8
Pinless external fixation of mandible fractures in cattle. Lischer CJ, et al. **Vet Surg** 1997 Jan–Feb;26(1):14–9
Dissipation of heat during polymerization of acrylics used for external skeletal fixator connecting bars. Martinez SA, et al. **Vet Surg** 1997 Jul–Aug;26(4):290–4
Mechanical characteristics and comparisons of cerclage wires: introduction of the double-wrap and loop/twist tying methods. Roe SC. **Vet Surg** 1997 Jul–Aug;26(4):310–6

FRACTURE FIXATION, INTERNAL

see related

INTERNAL FIXATORS

Social function after cervical hip fracture. A comparison of hook-pins and total hip replacement in 47 patients. Jónsson B, et al. **Acta Orthop Scand** 1996 Oct;67(5):431–4
The prevention of complications with the Gamma Locking Nail [see comments] Lyddon DW Jr. **Am J Orthop** 1996 May;25(5):357–63 (23 ref.). Comment in: Am J Orthop 1996 Oct;25(10):729.
Pneumoretroperitoneum secondary to an open reduction and internal fixation of a femoral fracture: case report. Maldjian PD, et al. **Am Surg** 1997 Jun;63(6):504–5
A retrospective study on elbow function after internal fixation of intercondylar fracture of adult humerus. Low CK, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):168–71
Tarsometatarsal (Lisfranc's) injuries--results of open reduction and internal fixation. Tan YH, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):816–9
A prospective controlled trial of the fracture of the humeral medial epicondyle--how to treat? Partio EK, et al. **Ann Chir Gynaecol** 1996;85(1):67–71
The great saphenous vein fasciocutaneous island flap for immediate calcaneal wound reconstruction. Isenberg JS. **Ann Plast Surg** 1997 Aug;39(2):193–5
Postoperative radiographs or thermal prints after internal fixation of fractures? A study of DHS fixation of hip fractures. Pattison RM, et al. **Ann R Coll Surg Engl** 1996 Nov;78(6):509–11
Fractures of posterior wall of acetabulum. Chiu FY, et al. **Arch Orthop Trauma Surg** 1996;115(5):273–5
Compression plating of tibial fractures following primary external fixation. Siebert CH, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):390–5
Arthroscopic subscapularis tenolysis: a technique for treating refractory glenohumeral stiffness following open reduction and internal fixation of a displaced three-part proximal humerus fracture. Burkhart SS. **Arthroscopy** 1996 Feb; 12(1):87–91
Arthroscopic reduction and internal fixation of a displaced intra-articular lateral femoral condyle fracture of the knee: case report [letter; comment] Stern RE. **Arthroscopy** 1996 Dec;12(6):760–1. Comment on: Arthroscopy 1996 Apr;12(2):224–7.
Posterior pelvic ring fractures: closed reduction and percutaneous CT-guided sacroiliac screw fixation. Jacob AL, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug; 20(4):285–94
Two compression rods to treat unstable lesions of the pelvic ring. Mainetti E, et al. **Chir Organi Mov** 1997 Jan–Mar; 82(1):41–7 **(Eng, Ita)**
Intertrochanteric osteotomy for failed internal fixation of femoral neck fracture. Anglen JO. **Clin Orthop** 1997 Aug; (341):175–82
Results of surgical treatment of tibial plafond fractures. Babis GC, et al. **Clin Orthop** 1997 Aug;(341):99–105
Hybrid external fixation in the treatment of tibial plafond fractures. Barbieri R, et al. **Clin Orthop** 1996 Nov; (332):16–22
Outcome of distal radius fractures using the short form 36 health survey. Fernandez JJ, et al. **Clin Orthop** 1997 Aug; (341):36–41
Intraarticular distal humerus fractures. Factors affecting functional outcome. Kundel K, et al. **Clin Orthop** 1996 Nov; (332):200–8
Treatment of humeral pathological fractures by internal fixation and methylmetacrylate injection. Vandeweyer E, et al. **Eur J Surg Oncol** 1997 Jun;23(3):238–42
Displaced intra-articular calcaneus fractures treated with the Galveston plate. Laughlin RT, et al. **Foot Ankle Int** 1996 Feb;17(2):71–8
The posterior Monteggia: a pathological lesion? [letter; comment] Krikler SJ. **Injury** 1996 Nov;27(9):678. Comment on: Injury 1996 Mar;27(2):101–2.
Effect of early hip decompression on the frequency of avascular necrosis in children with fractures of the neck of the femur. Ng GP, et al. **Injury** 1996 Jul;27(6):419–21
Irreducible femoral neck fracture in a child. Nolan PC, et al. **Injury** 1996 Nov;27(9):675–6
Resorbable device for fracture fixation: in vivo degradation and mechanical behaviour. Fini M, et al. **Int J Artif Organs** 1995 Dec;18(12):772–6
Rigid fixation with teeth in the line of mandibular fractures. Gerbino G, et al. **Int J Oral Maxillofac Surg** 1997 Jun; 26(3):182–6
Unreamed nailing of tibial fractures--a prospective study of the routine use of the unreamed tibial nail. Harrington P, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):282–5
Displaced intra-articular fractures of the distal aspect of the radius. Long-term results in young adults after open reduction and internal fixation. Catalano LW 3rd, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1290–302
Treatment of displaced intra-articular fractures of the distal end of the radius with plates. Fitoussi F, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1303–12
Osteosynthesis for the treatment of non-union of the lateral humeral condyle in children. Shimada K, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):234–40
A comparison of fixation screws for the scaphoid during application of cyclical bending loads. Toby EB, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1190–7
Non-union of the scaphoid. Treatment with cannulated screws compared with treatment with Herbert screws. Trumble TE, et al. **J Bone Joint Surg Am** 1996 Dec; 78(12):1829–37
Facial rhytidectomy approach for treatment of posterior mandibular fractures. Anastassov GE, et al. **J Craniomaxillofac Surg** 1997 Feb;25(1):9–14
The use of a calcaneal reconstruction plate in intra-articular calcaneal fractures. Frankel JP, et al. **J Foot Ankle Surg** 1996 Jul–Aug;35(4):318–30; discussion 370 (38 ref.)
The central slip attachment fracture. Imatami J, et al. **J Hand Surg [Br]** 1997 Feb;22(1):107–9
Complete avulsion of the palmar cortex of the distal phalanx. Kevu JE, et al. **J Hand Surg [Br]** 1996 Dec;21(6):758–9
In vitro femoral stiffness after femoral neck osteotomy and osteosynthesis with defined surgical errors. Hernefalk L, et al. **J Orthop Trauma** 1996;10(6):416–20
Management of humeral nonunion after the failure of locking intramedullary nails [letter; comment] Johnson KO. **J Orthop Trauma** 1997 Apr;11(3):238–9. Comment on: J Orthop Trauma 1996;10(7):492–9.
Parturition-induced pelvic dislocation: a report of four cases. Kharrazi FD, et al. **J Orthop Trauma** 1997 May; 11(4):277–81; discussion 281–2
Split fractures of the lateral tibial plateau: evaluation of three fixation methods. Koval KJ, et al. **J Orthop Trauma** 1996; 10(5):304–8
Avulsion fracture of the calcaneus: report of a case using a new tension band technique. Levi N, et al. **J Orthop Trauma** 1997 Jan;11(1):61–2
Incidence of sciatic nerve injury in operatively treated acetabular fractures without somatosensory evoked potential monitoring. Middlebrooks ES, et al. **J Orthop Trauma** 1997 Jul;11(5):327–9

Plaster cast versus percutaneous pin fixation for comminuted fractures of the distal radius in patients between 46 and 65 years of age. Rodríguez-Merchán EC. **J Orthop Trauma** 1997 Apr;11(3):212–7

Internal fixation in postpartum symphysis pubis rupture: report of three cases. Rommens PM. **J Orthop Trauma** 1997 May;11(4):273–6

Total hip arthroplasty for complications of proximal femoral fractures. Tabsh I, et al. **J Orthop Trauma** 1997 Apr; 11(3):166–9

Open fractures of the patella. Torchia ME, et al. **J Orthop Trauma** 1996;10(6):403–9

The role of fibular fixation in combined fractures of the tibia and fibula: a biomechanical investigation. Weber TG, et al. **J Orthop Trauma** 1997 Apr;11(3):206–11

Single-bone fixation of both-bone forearm fractures. Flynn JM, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):655–9

Open reduction and internal fixation of forearm fractures in children. Ortega R, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):651–4

Internal fixation of femoral shaft fractures in children and adolescents: a ten- to twenty-one-year follow-up of 52 fractures. Skak SV, et al. **J Pediatr Orthop B** 1996 Summer; 5(3):195–9

Operative management of impending pathological fractures: a critical analysis of therapy. Van Geffen E, et al. **J Surg Oncol** 1997 Mar;64(3):190–4

Outcomes can be very unexpected. Avery JK. **J Tenn Med Assoc** 1996 Apr;89(4):127–8

Open reduction and internal fixation of combined fourth and fifth carpometacarpal (fracture) dislocations. Schortinghuis J, et al. **J Trauma** 1997 Jun;42(6):1052–5

Mennen plate fixation for fractures of the femoral shaft after ipsilateral hip arthroplasty. Uchio Y, et al. **J Trauma** 1997 Jun;42(6):1157–60

Low thoracic fracture dislocation of the spine. McClellan JW 3rd, et al. **Nebr Med J** 1996 Sep;81(9):310–2

Biomechanics of pelvic fixation. Simonian PT, et al. **Orthop Clin North Am** 1997 Jul;28(3):351–67 (100 ref.)

Complications when using the cannulated 3.5 mm screw system. Schwend RK, et al. **Orthopedics** 1997 Mar; 20(3):221–3

Ender nails: an alternative for intramedullary fixation of femoral shaft fractures in children and adolescents. McGraw JJ, et al. **South Med J** 1997 Jul;90(7):694–6

Occipital morphology. An anatomic guide to internal fixation. Zipnick RI, et al. **Spine** 1996 Aug 1; 21(15):1719–24; discussion 1729–30

Comminuted avulsion fractures of the inferior pole of the patella. Veselko M, et al. **Unfallchirurg** 1996 Jan;99(1):71–2

[Surgery in the region of the ankle joint—5 years' experience] Jirka Z. **Rozhl Chir** 1997 May;76(5):228–30 (Eng. Abstr.) **(Cze)**

[Scapho-capitate fracture. Apropos of a case, review of the literature] Boisgard S, et al. **Ann Chir Main Memb Super** 1996;15(3):181–8 (21 ref.) (Eng. Abstr.) **(Fre)**

[Value of intramedullary locked nailing in distal fractures of the tibia] Bonnevialle P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):428–36 (Eng. Abstr.) **(Fre)**

[Osteosynthesis of internal malleolar fracture by staplers] Schiedts D, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):70–3 (Eng. Abstr.) **(Fre)**

[3-phase bone scintigraphy: perfusion and vitality of the femur head after media femoral neck fracture and osteosynthesis] Einert A, et al. **Aktuelle Radiol** 1996 Sep; 6(5):219–24 (Eng. Abstr.) **(Ger)**

[Vote of the International Association for Osteosynthesis Questions on the "medical standard" concept] Grafe S. **Chirurg** 1997 Jun;68(6):Suppl 175 **(Ger)**

[Post-traumatic anterior interosseous nerve syndrome after supracondylar humerus fracture in a child] Joist A, et al. **Chirurg** 1997 Jul;68(7):738–41 (Eng. Abstr.) **(Ger)**

[Reversed musculus biceps femoris flap for covering a defect of the distal thigh] Siebert CH, et al. **Chirurg** 1996 Nov; 67(11):1188–92 (Eng. Abstr.) **(Ger)**

[Causes for reoperations after osteosyntheses of finger and mid-hand fractures] Bartelmann U, et al. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):204–8 (Eng. Abstr.) **(Ger)**

[Isolated traumatic dislocation of the thumb saddle joint] Höcker K. **Handchir Mikrochir Plast Chir** 1997 Mar; 29(2):83–7 (Eng. Abstr.) **(Ger)**

[Proximal humerus fracture in advanced age] Hessmann M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:907–9 (Eng. Abstr.) **(Ger)**

[Radiotherapy from prevention of heterotopic ossification in various anatomic areas] Heyd R, et al. **Rontgenpraxis** 1997 Jan;50(1):1–5 **(Ger)**

[Elbow fractures in elderly patients] Kocher M, et al. **Swiss Surg** 1997;3(4):167–71 (Eng. Abstr.) **(Ger)**

[Quality control after pelvic injuries with a scoring system] Bürk W, et al. **Unfallchirurg** 1996 Feb;99(2):112–18 (Eng. Abstr.) **(Ger)**

[Modified treatment concept in fractures of the humeral head in elderly patients] Damanakis K, et al. **Unfallchirurg** 1996 Aug;99(8):561–8 (Eng. Abstr.) **(Ger)**

[Treatment concepts of femoral fractures after total endoprosthetic replacement of the hip or knee joint: intra- or extramedullary stabilization?] Hopf C, et al. **Unfallchirurg** 1996 Jan;99(1):31–7 (Eng. Abstr.) **(Ger)**

[Bridging an extensive bone defect with cortico-spongious transplants in femoral fracture caused by gunshot injury] Komadina R, et al. **Unfallchirurg** 1996 Sep;99(9):701–3 (Eng. Abstr.) **(Ger)**

[Treatment outcome after complex pelvic trauma in children] Meyer-Junghänel L, et al. **Unfallchirurg** 1997 Mar; 100(3):225–33 (Eng. Abstr.) **(Ger)**

[Preparation and technique for surgical treatment of 225 acetabulum fractures. 2 year results of 175 cases] Rommens PM, et al. **Unfallchirurg** 1997 May;100(5):338–48 (Eng. Abstr.) **(Ger)**

[Dislocated multiple fragment fractures of the head of the humerus. Does dislocation of the humeral head fragment signify a worse prognosis?] Trupka A, et al. **Unfallchirurg** 1997 Feb;100(2):105–10 (Eng. Abstr.) **(Ger)**

[Injuries of the wrist joint including carpal bones] Voigt C, et al. **Unfallchirurg** 1997 Jan;100(1):56–68; quiz 68 **(Ger)**

[Pediatric tibial fractures: is conservative therapy still currently appropriate?] Wessel L, et al. **Unfallchirurg** 1997 Jan;100(1):8–12 (Eng. Abstr.) **(Ger)**

[Spontaneous liver rupture after thrombolytic therapy with streptokinase] Hinterthaner M, et al. **Zentralbl Chir** 1997; 122(1):49–51 (20 ref.) (Eng. Abstr.) **(Ger)**

[Biological fixation of distal tibial fractures] Mosheiff R, et al. **Harefuah** 1997 May 15;132(10):727–30 (9 ref.) **(Heb)**

["Minimal osteosynthesis"—a new concept in the surgical treatment of humeral head and neck fractures] Volpin G, et al. **Harefuah** 1996 Sep;131(5–6):197–200 (29 ref.) **(Heb)**

[Deficient follow-up of surgically treated fractures of the foot joint. Tendency towards fewer check-ups because of cost savings] Rydell N, et al. **Lakartidningen** 1996 Nov 27;93(48):4420–1 **(Swe)**

ADVERSE EFFECTS

Staphylococcus infection complicating the application of a supracondylar nail to a fracture proximal to a total knee arthroplasty [letter] Seligson D, et al. **Am J Orthop** 1996 May;25(5):384

Risk of pelvic injury from femoral neck guidewires. Feeney M, et al. **Arch Orthop Trauma Surg** 1997;116(4):227–8

Sequential scintigraphy and orthoradiographic measurement of femoral shortening after femoral neck fracture. Hernefalk L, et al. **Arch Orthop Trauma Surg** 1997; 116(4):198–203

Massive fat emboli syndrome after unsuccessful unreamed nailing of the tibia. Rommens PM, et al. **Arch Orthop Trauma Surg** 1997;116(3):184–6

Osteosynthesis of condylar neck fractures: a review of 30 patients. Hammer B, et al. **Br J Oral Maxillofac Surg** 1997 Aug;35(4):288–91

Fracture-dislocation of the neck of the talus in a ten-year-old child: a case report and review of the literature. Pereles TR, et al. **Bull Hosp Jt Dis** 1996;55(2):88–91 (13 ref.)

A rare case of hip dislocation after internal fixation of a femoral neck fracture without infection. Younge D, et al. **Can J Surg** 1997 Feb;40(1):56–8

Complications in surgical treatment of undisplaced femoral neck fracture. Lee YH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jul;58(1):24–8

Spontaneous subcapital femoral neck fracture after healed trochanteric fracture. Buciuto R, et al. **Clin Orthop** 1997 Sep;(342):156–63

Retained portion of latex glove during femoral nailing. Case report. Sadat-Ali M, et al. **Indian J Med Sci** 1996 Nov; 50(11):308–9

Infection after open reduction and internal fixation with dynamic compression plates—clinical and experimental data. Arens S, et al. **Injury** 1996;27 Suppl 3:SC27–33 (29 ref.)

Dislocation of the hip following intertrochanteric fracture [letter; comment] Combalia A. **Injury** 1996 Dec; 27(10):757–8. Comment on: Injury 1995 Nov;26(9):645–6.

Complications of internal fixation of proximal humeral fractures. Connor PM, et al. **Instr Course Lect** 1997; 46:25–37 (114 ref.)

Traumatic and iatrogenic neurological complications after supracondylar humerous fractures in children [letter; comment] D'Souza L, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):678–9. Comment on: J Pediatr Orthop 1995 Jul–Aug;15(4):440–3.

An unusual cause of thoracic outlet syndrome. Casselman F, et al. **J Trauma** 1997 Jul;43(1):142–3

Clinics in diagnostic imaging (12). Iatrogenic pneumothorax. Irwin MG, et al. **Singapore Med J** 1996 Apr;37(2):212–5

Multidirectional instability of the thoracic spine due to iatrogenic pedicle injuries during transpedicular fixation. A biomechanical investigation. Kothe R, et al. **Spine** 1997 Aug 15;22(16):1836–42

[Post-traumatic epiphysiodesis of the distal end of the tibia in children] Toupin JM, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(2):112–22 (Eng. Abstr.) **(Fre)**

[Growth disturbances after A-O cancellous screw head-neck transfixation for slipped femoral epiphysis] Wojciechowski P, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):379–84 (Eng. Abstr.) **(Pol)**

ECONOMICS

Comparison of costs in ankle fractures treated with absorbable or metallic fixation devices. Juutilainen T, et al. **Arch Orthop Trauma Surg** 1997;116(4):204–8

[Injuries in elderly patients: maximal management versus minimal osteosynthesis depending on active life style and economic resources] Roesgen M. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:903–6 (6 ref.) (Eng. Abstr.) **(Ger)**

HISTORY

Osteosynthesis in trauma. Schatzker J. **Int Orthop** 1996; 20(4):244–52

INSTRUMENTATION

Posterolateral decompression and stabilization of thoracolumbar injuries using Diapason instrumentation. Ciappetta P, et al. **Acta Neurochir (Wien)** 1996; 138(3):314–21

Technique for securing guide wires in cannulated screw systems. Roux MA, et al. **Am J Orthop** 1996 Oct;25(10):726

Bone mineral density in fractures treated with absorbable or metallic implants. Juutilainen T, et al. **Ann Chir Gynaecol** 1997;86(1):51–5

Biodegradable self-reinforced polyglycolide screws and rods in the fixation of displaced malleolar fractures in the elderly. A comparison with metallic implants. Kankare J, et al. **Ann Chir Gynaecol** 1996;85(3):263–70

Absorbable pins in the treatment of hand fractures. Pelto-Vasenius K, et al. **Ann Chir Gynaecol** 1996; 85(4):353–8

Bead and wire intermaxillary fixation. Hataya Y, et al. **Ann Plast Surg** 1997 Jun;38(6):632–4

Risk of pelvic injury from femoral neck guidewires. Feeney M, et al. **Arch Orthop Trauma Surg** 1997;116(4):227–8

Failure of femoral nailing in the elderly. Harrington P, et al. **Arch Orthop Trauma Surg** 1997;116(4):244–5

Comparison of costs in ankle fractures treated with absorbable or metallic fixation devices. Juutilainen T, et al. **Arch Orthop Trauma Surg** 1997;116(4):204–8

Tibial condylar fractures fixed with totally absorbable, self-reinforced polyglycolide screws. A preliminary report. Kankare J. **Arch Orthop Trauma Surg** 1997;116(3):133–6

Totally absorbable fixation in the treatment of fractures of the distal femoral epiphyses. A prospective clinical study. Partio EK, et al. **Arch Orthop Trauma Surg** 1997; 116(4):213–6

Biomechanical validation of a new nail-plate for the repair of stable proximal femoral fractures. Ramer M, et al. **Arch Orthop Trauma Surg** 1997;116(3):137–42

Tibial avulsion fracture of the posterior cruciate ligament: K-wire or screw fixation? A retrospective study of 26 patients. Seitz H, et al. **Arch Orthop Trauma Surg** 1997; 116(5):275–8

Prevention of potential fracture between two implants using interlocking bipolar cut short GK nail and Enders nail. Yip KM. **Arch Orthop Trauma Surg** 1997;116(4):229–32

Application of a NiTi staple in the metatarsal osteotomy. Tang RG, et al. **Biomed Mater Eng** 1996;6(4):307–12

Corrosion resistance improvement of NiTi osteosynthesis staples by plasma polymerized tetrafluoroethylene coating. Villermaux F, et al. **Biomed Mater Eng** 1996;6(4):241–54

A comparative review of 266 mandibular fractures with internal fixation using rigid (AO/ASIF) plates or mini-plates. Kuriakose MA, et al. **Br J Oral Maxillofac Surg** 1996 Aug;34(4):315–21

Mennen plate in hip and shoulder joint replacement. Kligman M, et al. **Bull Hosp Jt Dis** 1997;56(2):84–7

A new technique for stabilization of complex intertrochanteric hip fractures. Kummer FJ, et al. **Bull Hosp Jt Dis** 1997;56(2):102–3

The immediate treatment of pelvic ring disruption with the pelvic stabilizer. Ward LD, et al. **Bull Hosp Jt Dis** 1997; 56(2):104–6

Subclavian artery injury caused by a screw in a clavicular compression plate. Johnson B, et al. **Cardiovasc Surg** 1996 Jun;4(3):414–5

Odontoid fractures in the child with neurological injury. Direct anterior osteosynthesis with a cortico-spongious screw and literature review. Godard J, et al. **Childs Nerv Syst** 1997 Feb;13(2):105–7 (14 ref.)

The long gamma nail: indications and results. Di Puccio G, et al. **Chir Organi Mov** 1997 Jan–Mar;82(1):49–52 **(Eng, Ita)**

Internal fixation of oblique metacarpal fractures. A biomechanical evaluation by impact loading. Firoozbakhsh KK, et al. **Clin Orthop** 1996 Apr;(325):296–301

Biomechanical evaluation of tension band placement for the repair of olecranon fractures. Paremain GP, et al. **Clin Orthop** 1997 Feb;(335):325–30

Comparison of reconstruction nails for high subtrochanteric femur fracture fixation. Wheeler DL, et al. **Clin Orthop** 1997 May;(338):231–9

Tibial plafond fractures: limited internal fixation and a hybrid external fixator. Griffiths GP, et al. **Foot Ankle Int** 1996 Aug;17(8):444–8

Breakage of Mennen femur device. Hagroo GA, et al. **Injury** 1996 Oct;27(8):593–5

How to avoid overlong screws. Wong-Chung J, et al. **Injury** 1996 Jul;27(6):427–8

Disruption of symphysis pubis during labor [letter] Kotwal PP, et al. **Int J Gynaecol Obstet** 1996 Jul;54(1):51–3

In vivo surface analysis of titanium and stainless steel

miniplates and screws. Matthew IR, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):463–8

Biomechanical evaluation of new fixation devices for mandibular angle fractures. Wittenberg JM, et al. **Int J Oral Maxillofac Surg** 1997 Feb;26(1):68–73

Complications and technical problems with the gamma nail. Albareda J, et al. **Int Orthop** 1996;20(1):47–50

Reconstruction femoral nailing for nonunion of subtrochanteric fracture: a revision technique following dynamic condylar screw failure. Charnley GJ, et al. **Int Orthop** 1996;20(1):55–7

Hydroxyapatite coating of threaded pins enhances fixation. Magyar G, et al. **J Bone Joint Surg Br** 1997 May; 79(3):487–9

Concomitant medial facet and dome fractures of the talus. Storm M, et al. **J Foot Ankle Surg** 1996 Jul–Aug; 35(4):331–4 (12 ref.)

Use of a bone block graft from the iliac crest with rigid fixation to correct diaphyseal defects of the radius and ulna. Barbieri CH, et al. **J Hand Surg [Br]** 1997 Jun;22(3):395–401

Herbert screw insertion in the scaphotrapezial joint. A cause of degenerative change? Callanan I, et al. **J Hand Surg [Br]** 1996 Dec;21(6):775–7

Cardiac arrhythmia caused by a Kirschner wire inside the heart. An unusual complication of finger osteosynthesis. Haapaniemi TA, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):402–4

Biodegradable pins versus Kirschner wires in hand surgery. Jensen CH, et al. **J Hand Surg [Br]** 1996 Aug;21(4):507–10

Loss of flexor pollicis longus function after plating of the radius. Report of six cases. Keogh P, et al. **J Hand Surg [Br]** 1997 Jun;22(3):375–6

A bioabsorbable poly-L-lactide miniplate and screw system for osteosynthesis in oral and maxillofacial surgery. Bessho K, et al. **J Oral Maxillofac Surg** 1997 Sep; 55(9):941–5;discussion 945–6

Lag screw fixation of a nonstable zygomatic complex fracture: case report. Chotkowski G, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):183–5

Use of lag screws for fractures of the mandibular body. Ellis E 3rd. **J Oral Maxillofac Surg** 1996 Nov;54(11):1314–6

Wurzburg lag screw plate versus four-hole miniplate for the treatment of condylar process fractures. Ziccardi VB, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):602–7; discussion 608–9

Titanium plate fixation: a review of implant failures [see comments] Banovetz JM, et al. **J Orthop Trauma** 1996; 10(6):389–94. Comment in: J Orthop Trauma 1997 Apr;11(3):239–40.

Knee pain after tibial nailing. Keating JF, et al. **J Orthop Trauma** 1997 Jan;11(1):10–3

Dynamic condylar screw for subtrochanteric femur fractures with greater trochanteric extension. Pai CH. **J Orthop Trauma** 1996;10(5):317–22

Strength recovery in fractured sheep tibia treated with a plate or an internal fixator: an experimental study with a two-year follow-up. Tepic S, et al. **J Orthop Trauma** 1997 Jan;11(1):14–23

Rigix plate system for anterior fixation of thoracolumbar vertebrae. Matsuzaki H, et al. **J Spinal Disord** 1997 Aug; 10(4):339–47

Routine implant removal after fracture surgery: a potentially reducible consumer of hospital resources in trauma units. Böstman O, et al. **J Trauma** 1996 Nov;41(5):846–9

Finite element stress analysis of a hybrid fracture fixation plate. Ferguson SJ, et al. **Med Eng Phys** 1996 Apr; 18(3):241–50

ORION anterior cervical plate system. Taha JM, et al. **Neurosurgery** 1996 Mar;38(3):607–9; 609–10

A comparison of mandibular angle fracture plating techniques. Haug RH, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):257–63

Lag-screw fixation of mandibular parasymphyseal and angle fractures. Kallela I, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):510–6

Relative displacement resistance of standard and low-profile bone plates in experimental mandibular angle fractures. Nissenbaum M, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):427–32

Photoelastic analysis of miniplate osteosynthesis for mandibular angle fractures. Rudman RA, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):129–36

A technical report reviewing the use of the 11-mm Gamma nail: interoperative femur fracture incidence. Boriani S, et al. **Orthopedics** 1996 Jul;19(7):597–600

Evaluation of Herbert screw fixation for the treatment of displaced scaphoid nonunions. Feldman MD, et al. **Orthopedics** 1997 Apr;20(4):325–8

Orderly oriented wire mesh: a novel porous coating. Naidu SH, et al. **Orthopedics** 1997 May;20(5):437–41; discussion 441–2

The fate of teeth transfixed by osteosynthesis screws [letter; comment] Christiansen SH, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2117–8. Comment on: Plast Reconstr Surg 1996 Apr;97(4):726–9.

Complications following metal removal: a follow-up of surgically treated forearm fractures. Chia J, et al. **Singapore Med J** 1996 Jun;37(3):268–9

An experimental study of a combination method using a pedicle screw and laminar hook for the osteoporotic spine. Hasegawa K, et al. **Spine** 1997 May 1;22(9):958–62; discussion 963

Use of the Texas Scottish Rite Hospital instrumentation in the treatment of thoracolumbar injuries. Korovessis PG, et al. **Spine** 1997 Apr 15;22(8):882–8

In vitro biomechanical comparison of multistrand cables with conventional cervical stabilization. Weis JC, et al. **Spine** 1996 Sep 15;21(18):2108–14

[The direct repair of the defect and grafting with single segment reduction fixation system in the treatment of lumbar spondylolysis and spondylolisthesis] Qian Z, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):711–4 (Eng. Abstr.) **(Chi)**

[Evaluation of impaction on bone nail and bone plate of the pertrochanteric fracture] de la Caffinière JY, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):243–50 (Eng. Abstr.) **(Fre)**

[Osteosynthesis of the odontoid process by a clover-shaped plate] Vichard P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):663–7 (Eng. Abstr.) **(Fre)**

[Proximal femoral fractures: fixation and nailing. Role of an implant fixed with a femoral head screw and nailing of the femoral diaphysis in per- and subtrochanteric fractures—results in a consecutive series of 28 Gamma long nails] Chevalley F. **Rev Med Suisse Romande** 1996 Jan; 116(1):65–70 **(Fre)**

[The "low contact plate" for stabilizing the dislocated intra-articular calcaneus fractures] Bauer G, et al. **Chirurg** 1996 Nov;67(11):1129–34 (Eng. Abstr.) **(Ger)**

[The dynamic hip screw with support plate—a reliable osteosynthesis for highly unstable "reverse" trochanteric fractures?] Dávid A, et al. **Chirurg** 1996 Nov;67(11):1166–73 (Eng. Abstr.) **(Ger)**

[Biomechanics of combined Kirschner wire osteosynthesis in the human model of unstable dorsal, distal radius fractures (Colles type)] Fritz T, et al. **Chirurg** 1997 May; 68(5):496–502 (Eng. Abstr.) **(Ger)**

[Proper and improper tension band fixation exemplified by patellar fracture] Labitzke R. **Chirurg** 1997 Jun; 68(6):638–42 (Eng. Abstr.) **(Ger)**

[Comparative stability evaluation of dynamic hip screw and gamma-nail osteosyntheses in unstable pertrochanteric femoral osteotomies] Kaiser W, et al. **Langenbecks Arch Chir** 1997;382(2):100–6 (Eng. Abstr.) **(Ger)**

[Titanium implants in accident surgery—when are they necessary?] Arens S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:938–40 (Eng. Abstr.) **(Ger)**

[Bridging plate osteosynthesis in simple femoral fractures—a minimally invasive method in polytrauma] Knopp W, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:951–3 (Eng. Abstr.) **(Ger)**

[External fixator or bone pin osteosyntheses in unstable distal intra-articular radius fractures in elderly patients] Neumann K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:912–3 (Eng. Abstr.) **(Ger)**

[Possibilities for early ambulation and long-term outcome of treatment of trochanteric fractures with the dynamic hip screw and gamma nail] Schick CH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:991–3 (Eng. Abstr.) **(Ger)**

[Advantage of load-bearing osteosynthesis of pertrochanteric fractures in geriatric traumatology] Schwämmle K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:967–9 (Eng. Abstr.) **(Ger)**

[Extra-articular proximal femur fracture in the elderly--dynamic hip screw or intramedullary hip screw for fracture management?] Wagner R, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:963–6 (Eng. Abstr.) **(Ger)**

[Osteosynthesis in the mid-face and forehead area] Siegert R, et al. **Laryngorhinootologie** 1996 Jul;75(7):419–25 (Eng. Abstr.) **(Ger)**

[New developments in surgery of the injured spine] Blauth M, et al. **Orthopade** 1997 May;26(5):437–49 (49 ref.) (Eng. Abstr.) **(Ger)**

[New developments in stabilization of dia- and metaphyseal fractures of long tubular bones] Krettek C, et al. **Orthopade** 1997 May;26(5):408–21 (80 ref.) (Eng. Abstr.) **(Ger)**

[New developments in the application of resorbable implants] Rehm KE, et al. **Orthopade** 1997 May;26(5):489–97 (Eng. Abstr.) **(Ger)**

[Distal femoral fractures. Transarticular reconstruction, percutaneous plate osteosynthesis and retrograde nailing] Krettek C, et al. **Unfallchirurg** 1996 Jan;99(1):2–10 (20 ref.) (Eng. Abstr.) **(Ger)**

[Minimally invasive osteosynthesis of fractures of the tibial head] Lobenhoffer P, et al. **Unfallchirurg** 1996 Aug; 99(8):569–75 (Eng. Abstr.) **(Ger)**

[Supportive composite-hybrid fixation of percutaneous screw fixation of tibial head fractures] Raschke MJ, et al. **Unfallchirurg** 1996 Nov;99(11):855–60 (Eng. Abstr.) **(Ger)**

[Plate osteosynthesis management of humerus shaft fractures] Siebert CH, et al. **Unfallchirurg** 1996 Feb;99(2):106–11 (Eng. Abstr.) **(Ger)**

[Elastic plate osteosynthesis, biomechanics, indications and technique in comparison with rigid osteosynthesis] Stürmer KM. **Unfallchirurg** 1996 Nov;99(11):816–29 (57 ref.) (Eng. Abstr.) **(Ger)**

[Testing bone implants in cell lines and human osteoblasts] Trentz OA, et al. **Unfallchirurg** 1997 Jan;100(1):39–43 (Eng. Abstr.) **(Ger)**

[Elastic plate osteosynthesis (editorial)] Tscherne H, et al. **Unfallchirurg** 1996 Nov;99(11):815 **(Ger)**

METHODS

An intra-operative technical aid to miniplating of mandibular fractures by fracture segment apposition. Van Hemelen G, et al. **Acta Chir Belg** 1997 Jun;97(3):123–6

Dens fractures in the elderly. Results of anterior screw fixation in 19 elderly patients. Berlemann U, et al. **Acta Orthop Scand** 1997 Aug;68(4):319–24

Open reduction and internal fixation of displaced intraarticular fractures of the distal radius. 31 patients followed for 3–7 years. Hove LM, et al. **Acta Orthop Scand** 1997 Feb;68(1):59–63

Bone-cement fixation for calcaneus fracture—a report on 2 elderly patients. Kiyoshige Y, et al. **Acta Orthop Scand** 1997 Aug;68(4):408–9

Biaxial dynamization in unstable intertrochanteric fractures. Good experience with a simplified Medoff sliding plate in 94 patients. Olsson O, et al. **Acta Orthop Scand** 1997 Aug;68(4):327–31

Coronal fracture of the hamate body. Chase JM, et al. **Am J Orthop** 1997 Aug;26(8):568–71 (14 ref.)

Direct complications of trochanteric osteotomy in open reduction and internal fixation of acetabular fractures. Heck BE, et al. **Am J Orthop** 1997 Feb;26(2):124–8

"Krammer splint technique" for immediate measuring of intramedullary nails. Mosheiff R, et al. **Am J Orthop** 1997 May;26(5):375

Postoperative magnetic resonance imaging evaluation of Pipkin fractures fixated with titanium implants: a report of two cases. Olscamp AJ, et al. **Am J Orthop** 1997 Apr; 26(4):294–7

Technique for securing guide wires in cannulated screw systems. Roux MA, et al. **Am J Orthop** 1996 Oct;25(10):726

Anomalous nerve anatomy at the wrist? Tyrdal S, et al. **Ann Chir Gynaecol** 1997;86(1):79–83

Pouteau-Colles fracture: double-closed "basket-like" pinning according to Kapandji. Apropos of a homogeneous series of 70 cases. Epinette JA, et al. **Ann Chir Main** 1982; 1(1):71–83 **(Eng, Fre)**

Endoscopic-assisted repair of a malar fracture. Lee CH, et al. **Ann Plast Surg** 1996 Aug;37(2):178–83

Surgically treated acetabular fractures in adult patients. Nooraie H, et al. **Arch Orthop Trauma Surg** 1996; 115(3–4):227–30

Measuring stability of wire cerclage in femoral fractures when performing total hip replacement. In vitro study on a standardized bone model. Wagner M, et al. **Arch Orthop Trauma Surg** 1996;115(1):33–7

Arthroscopic internal fixation of fractures of the intercondylar eminence of the tibia. Ando T, et al. **Arthroscopy** 1996 Oct;12(5):616–22

Management of patella fractures associated with central third bone-patella tendon-bone autograft ACL reconstructions. Berg EE. **Arthroscopy** 1996 Dec;12(6):756–9

Arthroscopic assistance for unselected tibial plateau fractures. Bernfeld B, et al. **Arthroscopy** 1996 Oct;12(5):598–602

Arthroscopically assisted reduction and fixation of an adult Tillaux fracture of the ankle. Miller MD. **Arthroscopy** 1997 Feb;13(1):117–9

Long-term results of intramedullary pinning of forearm fractures in a developing country. Wal A. **Aust N Z J Surg** 1997 Sep;67(9):622–4

Mandibular fracture osteosynthesis: a comparison of three techniques. Renton TF, et al. **Br J Oral Maxillofac Surg** 1996 Apr;34(2):166–73

An audit of mandibular fractures treated by intermaxillary fixation, intraosseous wiring and compression plating. Zachariades N, et al. **Br J Oral Maxillofac Surg** 1996 Aug; 34(4):293–7

Open reduction and internal fixation of condylar fractures via an extended bicoronal approach with a masseteric myotomy [letter; comment] Mitchell DA, et al. **Br J Plast Surg** 1997 Jan;50(1):67–8. Comment on: Br J Plast Surg 1996 Mar;49(2):79–84.

Ipsilateral fractures of the proximal ulna and distal radius (Colles type). Brewster NT, et al. **Bull Hosp Jt Dis** 1997; 56(2):117–9

A new technique for stabilization of complex intertrochanteric hip fractures. Kummer FJ, et al. **Bull Hosp Jt Dis** 1997;56(2):102–3

Femoral neck fracture fixation. Clinical decision making. Bray TJ. **Clin Orthop** 1997 Jun;(339):20–31 (41 ref.)

Arthroscopy assisted operative management of tibial plateau fractures. Buchko GM, et al. **Clin Orthop** 1996 Nov; (332):29–36 (19 ref.)

Treatment of tibial plateau fractures by limited internal fixation. Duwelius PJ, et al. **Clin Orthop** 1997 Jun; (339):47–57

Irreducible intertrochanteric fractures of the femur. Moehring HD, et al. **Clin Orthop** 1997 Jun;(339):197–9

Modified lateral approach to the distal humerus for internal fixation. Moran MC. **Clin Orthop** 1997 Jul;(340):190–7

Treatment of pathological fractures of the humeral shaft due to bone metastases: a comparison of intramedullary locking

nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6
Talar neck fractures: anatomic considerations for posterior screw application. Ebraheim NA, et al. **Foot Ankle Int** 1996 Sep;17(9):541–7
Percutaneous cannulated screw fixation of femoral neck fractures: the three point principle. Bout CA, et al. **Injury** 1997 Mar;28(2):135–9
The strength of iliosacral lag screws and transiliac bars in the fixation of vertically unstable pelvic injuries with sacral fractures. Gorczyca JT, et al. **Injury** 1996 Oct;27(8):561–4
Intercondylar fractures of the distal humerus in adults. Gupta R. **Injury** 1996 Oct;27(8):569–72
Plate osteosynthesis of diaphyseal fractures of the radius and ulna. Hertel R, et al. **Injury** 1996 Oct;27(8):545–8
Surgical management of fractures of the acetabulum: the Sheffield experience 1976–1994. Hull JB, et al. **Injury** 1997 Jan;28(1):35–40
Determination of femoral neck ante/retroversion and pinning angle: a simple technique. Melamed EA, et al. **Injury** 1996 Jul;27(6):456–7
Posterior dislocation of the shoulder with ipsilateral humeral shaft fracture: a very rare injury. Naresh S, et al. **Injury** 1997 Mar;28(2):150–2
Use of a laser guide to reduce screening time for the dynamic hip screw. Robinson AH, et al. **Injury** 1996 Dec; 27(10):713–4
Internal fixation of pelvic ring disruptions. Routt ML Jr, et al. **Injury** 1996;27 Suppl 2:B20–30 (32 ref.)
Contoured LCDC plating of the proximal ulna. Simpson NS, et al. **Injury** 1996 Jul;27(6):411–7
Open fractures and internal fixation in a major African hospital. Steiner AK, et al. **Injury** 1996 Nov;27(9):625–30
An unorthodox method of removing a Küntscher nail. Ting P, et al. **Injury** 1996 Dec;27(10):750–2
Condylar plate fixation of subtrochanteric femoral fractures. van Meeteren MC, et al. **Injury** 1996 Dec;27(10):715–7
Internal fixation of severely displaced mandibular condylar neck fracture with the aid of ramus osteotomy. A revised technique. Hillerup S. **Int J Oral Maxillofac Surg** 1997 Aug; 26(4):272–4
Uncemented revision stem for biological osteosynthesis in periprosthetic femoral fractures. Eingartner C, et al. **Int Orthop** 1997;21(1):25–9
Self-compressive osteotomy of the greater trochanter. Naito M, et al. **Int Orthop** 1997;21(2):119–21
Self locking tension band technique in transverse patellar fractures. Us AK, et al. **Int Orthop** 1996;20(6):357–8
An implant of a composite of bovine bone morphogenetic protein and plaster of paris for treatment of femoral shaft nonunions. Bai MH, et al. **Int Surg** 1996 Oct–Dec; 81(4):390–2
Metacarpal fracture fixation with absorbable polyglycolide rods and stainless steel K wires: a biomechanical comparison. Maruyama T, et al. **J Biomed Mater Res** 1996 Spring;33(1):9–12
Osteosynthesis without instrumentation for vertebral pseudarthrosis in the osteoporotic spine. Hasegawa K, et al. **J Bone Joint Surg Br** 1997 May;79(3):452–6
Herbert screw fixation by limited access for acute fractures of the scaphoid. Inoue G, et al. **J Bone Joint Surg Br** 1997 May;79(3):418–21
Complex nonunion of fractures of the femoral shaft treated by wave-plate osteosynthesis. Ring D, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):289–94
One- or two-plate fixation of mandibular angle fractures? Schierle HP, et al. **J Craniomaxillofac Surg** 1997 Jun; 25(3):162–8
Surgical management of the acute calcaneal joint depression fracture: the VAMC Miami experience. Cohen M. **J Foot Ankle Surg** 1996 Jan–Feb;35(1):2–12 (32 ref.)
Comparison of tension band wire and cancellous bone screw fixation for medial malleolar fractures. Johnson BA, et al. **J Foot Ankle Surg** 1997 Jul–Aug;36(4):284–9
Uses of Grafton for reconstructive foot and ankle surgery. Kado KE, et al. **J Foot Ankle Surg** 1996 Jan–Feb; 35(1):59–66
The lateral epicondyle as a bone graft donor site in procedures about the elbow. Charles LM, et al. **J Hand Surg [Am]** 1997 May;22(3):547–9
A modification for the insertion of the Herbert screw in the fractured or nonunited scaphoid. Heaps RJ, et al. **J Hand Surg [Am]** 1996 Sep;21(5):922–4
Repeat screw stabilization with bone grafting after a failed Herbert screw fixation for acute scaphoid fractures and nonunions. Inoue G, et al. **J Hand Surg [Am]** 1997 May; 22(3):413–8
Treatment of unstable distal radius fractures: methods and comparison of external distraction and ORIF versus external distraction–ORIF neutralization. Putnam MD, et al. **J Hand Surg [Am]** 1997 Mar;22(2):238–51
Experience with scaphoid grafting. Barton NJ. **J Hand Surg [Br]** 1997 Apr;22(2):153–60
Fixation for comminuted phalangeal fractures. A biomechanical study of five methods. Lu WW, et al. **J Hand Surg [Br]** 1996 Dec;21(6):765–7
Intraarticular calcaneus fractures: a biomechanical comparison or two fixation methods. Bailey EJ, et al. **J Orthop Trauma** 1997 Jan;11(1):34–7
The results of open reduction and Internal fixation of distal femur fractures using a biologic (indirect) reduction technique. Bolhofner BR, et al. **J Orthop Trauma** 1996; 10(6):372–7
A method for open reduction and internal fixation of the unstable posterior sternoclavicular joint dislocation. Brinker MR, et al. **J Orthop Trauma** 1997 Jul;11(5):378–81
Biomechanical evaluation of current patella fracture fixation techniques. Carpenter JE, et al. **J Orthop Trauma** 1997 Jul; 11(5):351–6
Biomechanical comparison of posterior internal fixation techniques for unstable pelvic fractures. Comstock CP, et al. **J Orthop Trauma** 1996;10(8):517–22
Comparative biomechanical analysis of supracondylar femur fracture fixation: locked intramedullary nail versus 95-degree angled plate. David SM, et al. **J Orthop Trauma** 1997 Jul;11(5):344–50
Biomechanical comparison of internal fixation techniques for the treatment of unstable basicervical femoral neck fractures. Deneka DA, et al. **J Orthop Trauma** 1997 Jul; 11(5):337–43
Titanium plate fixation [letter; comment] Klaue K. **J Orthop Trauma** 1997 Apr;11(3):239–40. Comment on: J Orthop Trauma 1996;10(6):389–94.
The use of endosteal substitution in the treatment of recalcitrant nonunions of the femur: report of seven cases. Matelic TM, et al. **J Orthop Trauma** 1996;10(1):1–6
Lateral approach to the humeral shaft: an alternative approach for fracture treatment. Mills WJ, et al. **J Orthop Trauma** 1996;10(2):81–6
Lateral condyle fractures in children: evaluation of classification and treatment. Mirsky EC, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):117–20
Open reduction and internal fixation of the calcaneus using minifragment plates. Tornetta P 3d. **J Orthop Trauma** 1996; 10(1):63–7
Biomechanical comparison of intramedullary and percutaneous pin fixation for proximal humeral fracture fixation. Wheeler DL, et al. **J Orthop Trauma** 1997 Jul; 11(5):363–7
The necessity of acute bone grafting in diaphyseal forearm fractures: a retrospective review. Wright RR, et al. **J Orthop Trauma** 1997 May;11(4):288–94
Optimal side plate fixation for unstable intertrochanteric hip fractures. Yian EH, et al. **J Orthop Trauma** 1997 May; 11(4):254–9
Endoscopic reduction and internal cyanoacrylate fixation of the zygoma. Cheski PJ, et al. **J Otolaryngol** 1997 Apr; 26(2):75–9
Surgical treatment of displaced olecranon fractures in children. Gaddy BC, et al. **J Pediatr Orthop** 1997 May–Jun; 17(3):321–4
The treatment of supracondylar fractures in children with an absent radial pulse. Garbuz DS, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):594–6
Fractures of the capitellum in adolescents. Letts M, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):315–20
Open reduction and internal fixation of pediatric forearm fractures. Wyrsch B, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):644–50
Plate fixation of comminuted olecranon fractures: an in vitro biomechanical study. King GJ, et al. **J Shoulder Elbow Surg** 1996 Nov–Dec;5(6):437–41
Biomechanical analysis of tension band fixation for olecranon fracture treatment. Kozin SH, et al. **J Shoulder Elbow Surg** 1996 Nov–Dec;5(6):442–8
Nonunions of the surgical neck of the humerus: surgical treatment with an intramedullary bone peg, internal fixation, and cancellous bone grafting. Walch G, et al. **J Shoulder Elbow Surg** 1996 May–Jun;5(3):161–8
Healing rate of transverse osteotomies of the olecranon used in reconstruction of distal humerus fractures. Gainor BJ, et al. **J South Orthop Assoc** 1995 Winter;4(4):263–8
Open reduction and internal fixation with bone grafting of clavicular nonunion. Ebraheim NA, et al. **J Trauma** 1997 Apr;42(4):701–4
Long-term outcome of isolated lesser tuberosity fractures of the humerus. Ogawa K, et al. **J Trauma** 1997 May; 42(5):955–9
External fixation–minimal osteosynthesis: indications, role, and place in war surgery. Pukljak D. **J Trauma** 1997 Aug; 43(2):275–82
Biomechanical analysis of location of lag screw of a dynamic hip screw in treatment of unstable intertrochanteric fracture. Wu CC, et al. **J Trauma** 1996 Oct;41(4):699–702
Unstable fractures of the upper thoracic spine. Schweighofer F, et al. **Langenbecks Arch Chir** 1997;382(1):25–8
Screw fixation for odontoid fracture; a comparison of the anterior and posterior technique. Hacker RJ. **Nebr Med J** 1996 Aug;81(8):275–8
An alternative to arch-bar maxillomandibular fixation. Karlis V, et al. **Plast Reconstr Surg** 1997 May;99(6):1758–9
Supracondylar humeral fractures--a review of the outcome of treatment. Ong TG, et al. **Singapore Med J** 1996 Oct; 37(5):508–11 (12 ref.)
Pedicle screw fixation for nontraumatic lesions of the cervical spine. Abumi K, et al. **Spine** 1997 Aug 15;22(16):1853–63
Internal fixation of the spine in traumatic and scoliotic cases. The potential of pedicle screws. Van Brussel K, et al. **Technol Health Care** 1996 Dec;4(4):365–84 (44 ref.)
Management of unstable ankle fractures with Kirschner wires. Oosterhuis JW, et al. **Trop Doct** 1997 Oct;27(4):230–1
[Adjustable reconditioner for the treatment of patella fracture] Yang A. **Chung Hua Wai Ko Tsa Chih** 1995 Oct; 33(10):589–90 (Eng. Abstr.) **(Chi)**
[Advantages of secured nailing] Belán P, et al. **Rozhl Chir** 1997 May;76(5):223–7 (Eng. Abstr.) **(Cze)**
[A salvage technique for comminuted fractures of the patella]. Vasilevski D, et al. **Int Orthop** 1996;20(4):216–7 (Eng. Abstr.) **(Fre)**
[Disruption of the pubic symphysis with overriding impacted symphysis. Apropos of a case] Catonné Y, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):458–61 (Eng. Abstr.) **(Fre)**
[Fractures of the anterior rim of the distal part of the tibia. Apropos of a series of 38 cases] Cesari B, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):417–27 (20 ref.) (Eng. Abstr.) **(Fre)**
[Biomechanical comparative study of three types of osteosynthesis in the treatment of supra and intercondylar fractures of the humerus in adults] Fornasiéri C, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):237–42 (Eng. Abstr.) **(Fre)**
[Fractures of the distal radius with dorsal displacement: a comparative study of the predictive value of 6 classifications] Lenoble E, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(5):396–402 (Eng. Abstr.) **(Fre)**
[Gluteal posterior approach for surgery of the acetabulum] Perves A, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995;81(7):639–42 (Eng. Abstr.) **(Fre)**
[Fracture dislocation of the ankle with retro-tibial luxation of the fibula (Bosworth fracture) . Apropos of a case] Pidet O, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995; 81(7):631–4 (11 ref.) (Eng. Abstr.) **(Fre)**
[Monocondylar fractures of the femur. Therapeutic strategy and clinical outcome] Ostermann PA, et al. **Chirurg** 1997 Jan;68(1):72–6 (Eng. Abstr.) **(Ger)**
[Results of a differentiated therapy concept for dislocated subcapital humeral fractures in elderly patients] Damanakis K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:910–1 (Eng. Abstr.) **(Ger)**
[Surgery of bone metastases in advanced age?] Grabbe F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:925–7 (Eng. Abstr.) **(Ger)**
[Results of modern osteosynthesis procedures in fractures of the radial head--are conservative therapy, bone pin osteosynthesis or primary resection still allowed?] Reimer H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:934–7 (Eng. Abstr.) **(Ger)**
[Resorbable bone cements] Claes L, et al. **Orthopade** 1997 May;26(5):459–62 (25 ref.) (Eng. Abstr.) **(Ger)**
[Acetabular and pelvic fractures in multiple trauma] Euler E, et al. **Orthopade** 1997 Apr;26(4):354–9 (Eng. Abstr.) **(Ger)**
[Indication, technique and complications in the surgical treatment of acetabular fractures] Kuner EH. **Orthopade** 1997 Apr;26(4):327–35 (Eng. Abstr.) **(Ger)**
[Approach-related results following acetabular fractures] Mayr E, et al. **Orthopade** 1997 Apr;26(4):384–93 (Eng. Abstr.) **(Ger)**
[Epimetaphyseal pseudarthroses] Mutschler W. **Orthopade** 1996 Sep;25(5):429–34 (Eng. Abstr.) **(Ger)**
[Periarticular fractures of the upper and lower extremity. II: Therapeutic principle] Arand M, et al. **Rontgenpraxis** 1997 Jun;50(6):175–81 (19 ref.) **(Ger)**
[Genioplasty. The long-term results after chin osteotomies with stable osteosynthesis] Ludwig A, et al. **Schweiz Monatsschr Zahnmed** 1996;106(11):1015–22 **(Ger, Fre)**
[Percutaneous iliosacral screw fixation of vertical unstable pelvic ring fractures] Remiger A, et al. **Swiss Surg** 1996; 2(6):259–63 (Eng. Abstr.) **(Ger)**
[Fixation of femoral shaft fractures from a Swiss viewpoint. An international prospective controlled study by the Study Group for Osteosynthesis Problems] Weber E, et al. **Swiss Surg** 1997;3(2):55–60 (Eng. Abstr.) **(Ger)**
[Injuries of the pelvic ring] Culemann U, et al. **Unfallchirurg** 1997 Jun;100(6):487–96 (14 ref.) **(Ger)**
[Therapy and outcome of lateral clavicular fractures] Hessmann M, et al. **Unfallchirurg** 1997 Jan;100(1):17–23 (Eng. Abstr.) **(Ger)**
[Bone lengthening osteotomy in malunited clavicular fracture] Peters G, et al. **Unfallchirurg** 1997 Apr; 100(4):270–3 (Eng. Abstr.) **(Ger)**
[4-fragment fractures of the proximal humerus. Alternative strategies for surgical treatment] Speck M, et al. **Unfallchirurg** 1997 May;100(5):349–53 (Eng. Abstr.) **(Ger)**
[Fractures after total knee joint endoprosthesis. Results of treatment with various stabilizing methods] Hopf C, et al. **Unfallchirurgie** 1997 Jun;23(3):92–9 (Eng. Abstr.) **(Ger)**
[Immediate posterior stabilization of pelvic fractures using threaded compression rods] Mosheiff R, et al. **Harefuah** 1996 Oct;131(7–8):217–21, 296 (Eng. Abstr.) **(Heb)**
[Unstable fractures of the distal radius. External fixation or percutaneous pinning?] Ludvigsen TC, et al. **Tidsskr Nor Laegeforen** 1996 Oct 30;116(26):3093–7 (Eng. Abstr.) **(Nor)**
[Surgical results of osteosynthesis in fracture of the mandible] Osmola K. **Pol Merkuriusz Lek** 1996 Oct;1(4):264–5 (Eng. Abstr.) **(Pol)**
[The use of extraoral compression–distraction osteosynthesis in treating patients with mandibular fractures with posttraumatic defects and complicated by a suppurative process] Diuriagin NM, et al. **Stomatologiia (Mosk)** 1996;

Spec No:54 **(Rus)**

[A method for the surgical treatment of mandibular condyle fractures with dislocation of the head of the mandible] Loktev NI, et al. **Stomatologiia (Mosk)** 1996;75(4):31–2 (Eng. Abstr.) **(Rus)**

[The use of the Ender nail in the osteosynthesis of diaphyseal fractures of the femur in children] Mgoian GKh, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):68 **(Rus)**

REHABILITATION

[Long-term results and late complications following acetabular fractures] Schlickewei W, et al. **Orthopade** 1997 Apr;26(4):375–83 (17 ref.) (Eng. Abstr.) **(Ger)**

[Feedback-controlled weight bearing following osteosynthesis of the lower extremity] Perren T, et al. **Swiss Surg** 1996;2(6):252–8 (Eng. Abstr.) **(Ger)**

STANDARDS

[Revision: guiding principles for successful or unsuccessful stabilization of subtrochanteric femoral neck fractures. A review] Pannike A. **Unfallchirurgie** 1996 Dec;22(6):239–47 (27 ref.) (Eng. Abstr.) **(Ger)**

STATISTICS & NUMERICAL DATA

Routine implant removal after fracture surgery: a potentially reducible consumer of hospital resources in trauma units. Böstman O, et al. **J Trauma** 1996 Nov;41(5):846–9

Temporal trends and geographic variations in surgical treatment of femoral neck fractures. Jaglal SB, et al. **J Trauma** 1997 Sep;43(3):475–9

VETERINARY

Fracture of the intercondylar eminence of the tibia treated by arthroscopic internal fixation. Walmsley JP. **Equine Vet J** 1997 Mar;29(2):148–50

Repair of a mid-diaphyseal femoral fracture in a boar. Grisel GR, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1608–10

The effects of internal fixation on calcium carbonate. Ceramic anterior spinal fusion in dogs. Fuller DA, et al. **Spine** 1996 Sep 15;21(18):2131–6

Comparison of three methods of ulnar fixation in horses. Hanson PD, et al. **Vet Surg** 1997 May–Jun;26(3):165–71

Results of screw/wire/polymethylmethacrylate composite fixation for acetabular fracture repair in 14 dogs. Lewis DD, et al. **Vet Surg** 1997 May–Jun;26(3):223–34

Use of a medial bone plate for repair of radius and ulna fractures in dogs and cats: a report of 22 cases. Sardinas JC, et al. **Vet Surg** 1997 Mar–Apr;26(2):108–13

FRACTURE FIXATION, INTRAMEDULLARY

see related

INTERNAL FIXATORS

Malunion after intramedullary nailing of tibial shaft fractures. Kyrö A. **Ann Chir Gynaecol** 1997;86(1):56–64

Rigid osteosynthesis decreases the late complication rate after femoral neck fracture. The influence of three different osteosynthesis devices evaluated in 369 patients. Hernefalk L, et al. **Arch Orthop Trauma Surg** 1996;115(2):71–4

Sequential intramedullary nailing of open tibial shaft fractures after external fixation. Siebenrock KA, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):32–6

Intramedullary nailing: experience in 427 patients. Lambiris E, et al. **Bull Hosp Jt Dis** 1996;55(1):25–7

Locked nailing of the femur and tibia: minimizing operative difficulties. Petri GJ, et al. **Bull Hosp Jt Dis** 1996; 54(4):255–7

Retrograde intramedullary nailing of the femur using a tibial nail—the adjunctive use of an existing implant: a case report. Rodgers WB, et al. **Bull Hosp Jt Dis** 1996; 55(2):78–80

Aseptic nonunion of the tibia treated by intramedullary osteosynthesis. Gualdrini G, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):275–8 **(Eng, Ita)**

Skeletal fixation of grade IIIB tibial fractures. The potential of metaanalysis. Dervin GF. **Clin Orthop** 1996 Nov; (332):10–5

Treatment of supracondylar femoral fractures with a retrograde intramedullary nail. Gellman RE, et al. **Clin Orthop** 1996 Nov;(332):90–7

Fixation of segmental subtrochanteric fractures. A biomechanical study. Kraemer WJ, et al. **Clin Orthop** 1996 Nov;(332):71–9

Exchange reamed intramedullary nailing for delayed union and nonunion of the tibia [letter] Levin PE. **Clin Orthop** 1996 Nov;(332):304–5

Superior results of tibial rodding versus external fixation in grade 3B fractures. Schandelmaier P, et al. **Clin Orthop** 1997 Sep;(342):164–72

Difficulty in removal of certain intramedullary nails. Seligson D, et al. **Clin Orthop** 1997 Jul;(340):202–6

Anatomic structures at risk: combined subtalar and ankle arthrodesis with a retrograde intramedullary rod [letter; comment] Carr JB. **Foot Ankle Int** 1996 Mar;17(3):189–90 . Comment on: Foot Ankle Int 1995 Sep;16(9):542–7. Comment on: Foot Ankle Int 1995 Sep;16(9):572–6.

Distal fracture with hypertrophic non-union: a complication of Seidel humeral nail. Cheng J, et al. **Injury** 1997 Apr; 28(3):223–6

Reamed against unreamed nailing of the femoral diaphysis: a retrospective study of healing time. Giannoudis PV, et al. **Injury** 1997 Jan;28(1):15–8

Group II phospholipase A2 in serum after knee surgery and intramedullary nailing of tibial shaft fracture. Lindström T, et al. **Injury** 1997 Apr;28(3):169–71

Infection after intramedullary nailing: an experimental investigation on rabbits. Melcher GA, et al. **Injury** 1996; 27 Suppl 3:SC23–6

Supracondylar femoral fracture above a PFC posterior cruciate-substituting total knee arthroplasty treated with supracondylar nailing. A unique technical problem. Maniar RN, et al. **J Arthroplasty** 1996 Aug;11(5):637–9

Displaced isolated fractures of the tibial shaft treated with either a cast or intramedullary nailing. An outcome analysis of matched pairs of patients. Bone LB, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1336–41

The effects of femoral intramedullary reaming on pulmonary function in a sheep lung model. Duwelius PJ, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):194–202

Removal of a broken solid femoral nail: a simple push-out technique. A case report. Krettek C, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):247–51

External fixation and secondary intramedullary nailing of open tibial fractures. A randomised, prospective trial. Antich-Adrover P, et al. **J Bone Joint Surg Br** 1997 May; 79(3):433–7

Accuracy of intramedullary templates in femoral and tibial radiographs. Krettek C, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):963–4

Reamed or unreamed nailing for closed tibial fractures [letter; comment] Smith RM, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):170; discussion 170–1. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):580–3.

Reamed or unreamed nailing for closed tibial fractures [letter; comment] Tennent TD, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):170; discussion 170–1. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):580–3.

Dual-energy X-ray absorptiometry as a measure of healing in fractures treated by intramedullary nailing. Cattermole HC, et al. **J Orthop Trauma** 1996;10(8):563–8

Recalcitrant femoral pseudarthrosis healed with a torsionally stiff intramedullary nail. Chandler RW. **J Orthop Trauma** 1996;10(2):135–7

Ipsilateral fractures of the femur and tibia: treatment with retrograde femoral nailing and unreamed tibial nailing. Gregory P, et al. **J Orthop Trauma** 1996;10(5):309–16

Intramedullary nailing of unstable diaphyseal fractures of the tibia with distal intraarticular involvement. Konrath G, et al. **J Orthop Trauma** 1997 Apr;11(3):200–5

Subfascial plate fixation of comminuted diaphyseal femoral fractures: a report of three cases utilizing biological osteosynthesis. van Riet YE, et al. **J Orthop Trauma** 1997 Jan;11(1):57–60

Effects on pulmonary physiology of reamed femoral intramedullary nailing in an open-chest sheep model. Wolinsky PR, et al. **J Orthop Trauma** 1996;10(2):75–80

Treatment of deformed tibial intramedullary nail: report of two cases. Yip KM, et al. **J Orthop Trauma** 1996; 10(8):580–3

Fracture of the femoral shaft in children: advantages of the descending medullary nailing. Bourdelat D. **J Pediatr Orthop B** 1996 Spring;5(2):110–4

Modern trends in internal fixation of femoral shaft fractures in children. A critical review. Parsch KD. **J Pediatr Orthop B** 1997 Apr;6(2):117–25 (78 ref.)

An overview of femoral intramedullary nailing. Howell GE. **J R Nav Med Serv** 1996 Summer;82(2):134–8 (11 ref.)

Retrograde nailing of supracondylar femoral fractures in patients with total hip arthroplasty: a preliminary report. Menth-Chiari WA, et al. **J Trauma** 1996 Dec;41(6):1059–63

Treatment of comminuted subtrochanteric femoral fractures in a young population with a reconstruction nail. Taylor DC, et al. **Mil Med** 1996 Dec;161(12):735–8 (30 ref.)

The risk of neurovascular injury with distal locking screws of humeral intramedullary nails [see comments] Rupp RE, et al. **Orthopedics** 1996 Jul;19(7):593–5. Comment in: Orthopedics 1996 Nov;19(11):926–7.

[The Medin intramedullary nails] Palarčík J, et al. **Rozhl Chir** 1996 Apr;75(4):206–12 (Eng. Abstr.) **(Cze)**

[Reconstructive nailing] Asencio G, et al. **Chirurgie** 1997; 122(3):175–7 **(Fre)**

[Retrograde centromedullary locked nailing for fractures of the lower portion of the femur] Garbuio P, et al. **Chirurgie** 1997;122(3):178–9; discussion 180 **(Fre)**

[The classical femoral nailing] Vives P, et al. **Chirurgie** 1997; 122(3):167 **(Fre)**

[Osteosynthesis in double elastic nailing of radial shortening osteotomy in Kienböck disease. Apropos of 4 cases] Desmanet E. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(4):327–30 (Eng. Abstr.) **(Fre)**

[Femoral head necrosis after intramedullary nailing of the femur in adults] Hernigou P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995;81(7):622–5 (Eng. Abstr.) **(Fre)**

[Elastic intramedullary cavity splint. Comment on the contribution by Hahn et al. (letter)] Burgdörfer R. **Chirurg** 1996 Nov;67(11):1197 **(Ger)**

[Treatment concepts of femoral fractures after total endoprosthetic replacement of the hip or knee joint: intra- or extramedullary stabilization?] Hopf C, et al. **Unfallchirurg** 1996 Jan;99(1):31–7 (Eng. Abstr.) **(Ger)**

[Intramedullary nailing in polytrauma. Pro and contra early management] Nast-Kolb D. **Unfallchirurg** 1997 Jan; 100(1):80–4 (34 ref.) (Eng. Abstr.) **(Ger)**

[Correcting torsion after intramedullary nailing osteosynthesis of the lower extremity] Strecker W, et al. **Unfallchirurg** 1997 Jan;100(1):29–38 (Eng. Abstr.) **(Ger)**

[Radiation burden to the hands of surgeons in intramedullary nailing] Müller LP, et al. **Unfallchirurgie** 1996 Dec; 22(6):253–9 (Eng. Abstr.) **(Ger)**

[Treatment of pathological fractures caused by metastatic bone cancer] Tateishi A, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):285–91 (9 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Removal of a broken solid intramedullary interlocking nail. A technical note. Hellemondt FJ, et al. **Acta Orthop Scand** 1996 Oct;67(5):512

Heterotopic ossification: a comparison between reamed and unreamed femoral nailing. Furlong AJ, et al. **Injury** 1997 Jan;28(1):9–14

Femoral neck fracture: a complication of femoral nailing [letter; comment] Rasheed AS. **Injury** 1996 Jul;27(6):461. Comment on: Injury 1995 Jun;26(5):319–21.

Malrotation of the femur after intramedullary nailing. Samuel AW. **Injury** 1996 Jul;27(6):438–40

Avascular necrosis of the head of femur after intramedullary nailing for fracture of the shaft of the femur. Shahane SA, et al. **Injury** 1996 Nov;27(9):663–5

Intramedullary femoral osteosynthesis: an additional cause of ARDS in multiply injured patients? van der Made WJ, et al. **Injury** 1996 Jul;27(6):391–3

Pathological fracture after prophylactic reconstruction nailing of the femur. The need for distal locking. Chesser TJ, et al. **Int Orthop** 1996;20(3):190–1

Adult respiratory distress syndrome, pneumonia, and mortality following thoracic injury and a femoral fracture treated either with intramedullary nailing with reaming or with a plate. A comparative study. Bosse MJ, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):799–809

Pulmonary effects of fixation of a fracture with a plate compared with intramedullary nailing. A canine model of fat embolism and fracture fixation. Schemitsch EH, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):984–96

Transcardiac echocardiography during invasive intramedullary procedures [letter; comment] Abraham P, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):854–5. Comment on: J Bone Joint Surg Br 1995 May;77(3):450–5.

Recurrent rotational deformity of the femur after static locking of intramedullary nails: case reports. Krettek C, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):4–8

Fracture on removal of the ACE tibial nail. Takakuwa M, et al. **J Bone Joint Surg Br** 1997 May;79(3):444–5

Knee pain after intramedullary tibial nailing: its incidence, etiology, and outcome. Court-Brown CM, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):103–5

Fractures below the end of locking humeral nails: a report of three cases. McKee MD, et al. **J Orthop Trauma** 1996; 10(7):500–4

Closed removal of a segmental intramedullary rod: a technical report. Randall RL, et al. **J Orthop Trauma** 1996; 10(5):363–5

Segmental avascularity of the humeral diaphysis after reamed intramedullary nailing. Remiger AR, et al. **J Orthop Trauma** 1997 May;11(4):308–11

Compartment pressures during nonreamed tibial nailing without traction. Tornetta P 3rd, et al. **J Orthop Trauma** 1997 Jan;11(1):24–7

Neurologic complications of pediatric femoral nailing. Riew KD, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):606–12

Avascular necrosis of the femoral head after intramedullary nailing of a femoral shaft fracture in a male adolescent. Buckaloo JM, et al. **J South Orthop Assoc** 1997 Summer; 6(2):97–100

Thoracic trauma and early intramedullary nailing of femur fractures: are we doing harm? Boulanger BR, et al. **J Trauma** 1997 Jul;43(1):24–8

Displacement of the posterior malleolus during intramedullary tibial nailing. Georgiadis GM, et al. **J Trauma** 1996 Dec;41(6):1056–8

[Removal of femoral interlocking nail-induced pulmonary embolism under spinal anesthesia—a case report] Chen FC, et al. **Acta Anaesthesiol Sin** 1996 Dec;34(4):247–51 (Eng. Abstr.) **(Chi)**

[Criticisms against annealing and the concept of solid nails] Heim D. **Chirurgie** 1997;122(3):170–1 (11 ref.) **(Fre)**

[Embolism and intramedullary femoral surgery] Barre J, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):9–21 (Eng. Abstr.) **(Fre)**

[Femoral head necrosis after intramedullary nailing of the femur in adults] Hernigou P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995;81(7):622–5 (Eng. Abstr.) **(Fre)**

HISTORY

Intramedullary fixation for fractures of the shaft of the tibia. 1952 [classical article] Lottes JO. **Clin Orthop** 1996 Nov; (332):4–9; discussion 2–3

[G. Kuntscher's centromedullary nailing of the femur. 50 years later. Historical recall] Vichard P. **Chirurgie** 1997; 122(3):165–6 **(Fre)**

FRACTURE FIXATION, INTRAMEDULLARY

INSTRUMENTATION

Compound osteosynthesis of pathological fractures of the proximal femoral shaft. Experimental studies on the biomechanical effects of additional intramedullary splinting. Heller KD, et al. **Arch Orthop Trauma Surg** 1996; 115(2):115–7

Placement of the distal locking screws of the femoral intramedullary nail without radiation. Steriopoulos KA, et al. **Arch Orthop Trauma Surg** 1996;115(1):43–4

Mechanical evaluation of humeral interlocking intramedullary nails. Lewis G. **Biomed Mater Eng** 1997; 7(2):149–57 (30 ref.)

Titanium implant for the osteosynthesis of massive allograft reconstruction to improve follow-up by magnetic resonance imaging. Exner GU, et al. **Bull Hosp Jt Dis** 1996; 54(3):140–5

Improving the distal fixation of intramedullary nails in osteoporotic bone. Kummer FJ, et al. **Bull Hosp Jt Dis** 1997;56(2):88–90

The use of customized long stem hemiarthroplasty in ipsilateral femoral neck and pending shaft fracture: case report. Yip KM. **Bull Hosp Jt Dis** 1996;55(2):81–2

Static assembly of the CEB system in per-subtrochanteric fractures. Battaglia L, et al. **Chir Organi Mov** 1996 Jul–Sep; 81(3):269–74 **(Eng, Ita)**

Seidel locked nailing for the treatment of unstable fractures and nonunion of the humerus. Corradi M, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):189–95 **(Eng, Ita)**

Gamma nailing for the treatment of subtrochanteric nonunion: two clinical cases. Prosperi P, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):213–6 (10 ref.) **(Eng, Ita)**

Nonreamed locking intramedullary nailing for open fractures of the tibia. Bonatus T, et al. **Clin Orthop** 1997 Jun; (339):58–64

Mechanical characterization of a totally intramedullary gradual elongation nail. Guichet JM, et al. **Clin Orthop** 1997 Apr;(337):281–90

Femoral nailing without a fracture table. Sirkin MS, et al. **Clin Orthop** 1996 Nov;(332):119–25

Decision making errors in the use of interlocking tibial nails. Templeman D, et al. **Clin Orthop** 1997 Jun;(339):65–70

Modified transverse locking nail fixation of proximal femoral fractures. Ziran BH, et al. **Clin Orthop** 1997 Jun;(339):82–91

Geometric properties of the fractured tibia stabilized by unreamed interlocking nail: development of a three-dimensional finite element model. Raunest J, et al. **Comput Biomed Res** 1996 Aug;29(4):259–70

Analysis of failed surgical management of fractures of the base of the fifth metatarsal distal to the tuberosity: the Jones fracture. Glasgow MT, et al. **Foot Ankle Int** 1996 Aug; 17(8):449–57

A technique for removal of fractured locking screws from an intramedullary nail. Davies NM, et al. **Injury** 1997 Mar; 28(2):159

Complications following the use of the Marchetti flexible intramedullary nail. Hargreaves DG, et al. **Injury** 1996 Dec; 27(10):735–8

An improved screw design for locked intramedullary nailing. Pennig D. **Injury** 1997 Mar;28(2):162–4

A cannulated pointed awl for femoral intramedullary nailing. Pennig D. **Injury** 1996 Jul;27(6):458–60

Gamma versus DHS nailing for extracapsular femoral fractures. Meta-analysis of ten randomised trials. Parker MJ, et al. **Int Orthop** 1996;20(3):163–8

Hackethal nailing in closed transverse humeral shaft fractures after failed manipulation. Rodriguez-Merchan EC. **Int Orthop** 1996;20(3):134–6

Biomechanical study of the Grosse-Kempf femoral nail. Sánchez Gimeno M, et al. **Int Orthop** 1997;21(2):115–8

Recurrent rotational deformity of the femur after static locking of intramedullary nails: case reports. Krettek C, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):4–8

Abduction strength following intramedullary nailing of the femur. Bain GI, et al. **J Orthop Trauma** 1997 Feb–Mar; 11(2):93–7

Technical notes on a radiolucent distractor for indirect reduction and intramedullary nailing. Dahners LE. **J Orthop Trauma** 1997 Jul;11(5):374–7

Technique for removal of intramedullary nails when there is failure of the proximal extraction device: a report of three cases. Georgiadis GM, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):130–2

Management of humeral nonunion after the failure of locking intramedullary nails [see comments] McKee MD, et al. **J Orthop Trauma** 1996;10(7):492–9. Comment in: J Orthop Trauma 1997 Apr;11(3):238–9.

Mechanical failure of the intramedullary hip screw in a subtrochanteric femoral fracture. Rantanen J, et al. **J Orthop Trauma** 1996;10(5):348–50

Biomechanical study of nine different tibia locking nails. Schandelmaier P, et al. **J Orthop Trauma** 1996;10(1):37–44

The treatment of femoral shaft fractures using intramedullary interlocked nails with and without intramedullary reaming: a preliminary report. Tornetta P 3rd, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):89–92

Fatigue properties of a twelve-hole versus a five-hole intramedullary supracondylar nail. Voor MJ, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):98–102

Flexible intramedullary nailing as fracture treatment in children. Huber RI, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):602–5

Intramedullary pressure and bone marrow fat intravasation in unreamed femoral nailing. Kröpfl A, et al. **J Trauma** 1997 May;42(5):946–54

Tibial diaphyseal nonunions after external fixation treated with nonreamed solid core nails. Riemer BL, et al. **Orthopedics** 1996 Feb;19(2):109–16

Percutaneous retrieval of intracardiopulmonary artery metallic needle (Kirschner's wire): a case report. Aikawa H, et al. **Radiat Med** 1996 Nov–Dec;14(6):335–8

[A new method of osteosynthesis in proximal humeral fractures: a new internal fixation device. Apropos of 17 cases followed over more than 2 years] Doursounian L, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(8):743–52 (Eng. Abstr.) **(Fre)**

[The monorail system--bone segment transport over unreamed interlocking nails] Oedekoven G, et al. **Chirurg** 1996 Nov;67(11):1069–79 (Eng. Abstr.) **(Ger)**

[Retrograde interlocking nailing of distal femoral fractures with the intramedullary supracondylar nail] Ostermann PA, et al. **Chirurg** 1996 Nov;67(11):1135–40 (Eng. Abstr.) **(Ger)**

[First experiences with unreamed AO intramedullary nail in treatment of femoral shaft fractures] Stockenhuber N, et al. **Chirurg** 1997 Jul;68(7):718–26 (Eng. Abstr.) **(Ger)**

[Possibilities and limits of intramedullary Kirschner wire osteosynthesis in treatment of metacarpal fractures] Larkin G, et al. **Handchir Mikrochir Plast Chir** 1997 Jul; 29(4):192–6 (Eng. Abstr.) **(Ger)**

[Intramedullary osteosynthesis of distal metacarpal fractures with curved wires] Schlageter M, et al. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):197–203 (Eng. Abstr.) **(Ger)**

[Comparative stability evaluation of dynamic hip screw and gamma-nail osteosyntheses in unstable pertrochanteric femoral osteotomies] Kaiser W, et al. **Langenbecks Arch Chir** 1997;382(2):100–6 (Eng. Abstr.) **(Ger)**

[Biomechanics of femoral interlocking nails at the bone-implant transition] Schandelmaier P, et al. **Langenbecks Arch Chir** 1997;382(3):167–72 (Eng. Abstr.) **(Ger)**

[UFN system. A method of minimal invasive surgical management of femoral shaft fractures] Stockenhuber N, et al. **Langenbecks Arch Chir** 1996;381(5):267–74 (Eng. Abstr.) **(Ger)**

[Experiences with the classic nail in management of per-/subtrochanteric femoral fractures in elderly patients] Berkhoff M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:974–6 (Eng. Abstr.) **(Ger)**

[Gamma nail osteosynthesis--progress in geriatric surgery] Domagk A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:999–1001 (Eng. Abstr.) **(Ger)**

[The gliding nail. A new implant for complication-free primary load-bearing management of per- and subtrochanteric femoral fractures] Friedl W. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:970–3 (Eng. Abstr.) **(Ger)**

[Fractures of the lower extremity--including femoral neck fractures--in advanced age] Hax PM. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1002–3 (Eng. Abstr.) **(Ger)**

[Efficacy of intramedullary stabilization of pathologic femoral shaft fractures] Holmenschlager F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:987–90 (Eng. Abstr.) **(Ger)**

[Full weight bearing after gamma nail osteosynthesis] Kirchgesser G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:994–5 **(Ger)**

[A new roentgen ray-free aiming technique for distal locking screw boring of the unreamed tibial nail] Krettek C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:947–50 (Eng. Abstr.) **(Ger)**

[Pertrochanteric femoral fracture in elderly patients--injury pattern and management with gamma nailing] Ruland WO. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:996–8 (Eng. Abstr.) **(Ger)**

[Possibilities for early ambulation and long-term outcome of treatment of trochanteric fractures with the dynamic hip screw and gamma nail] Schick CH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:991–3 (Eng. Abstr.) **(Ger)**

[Extra-articular proximal femur fracture in the elderly--dynamic hip screw or intramedullary hip screw for fracture management?] Wagner R, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:963–6 (Eng. Abstr.) **(Ger)**

[New developments in stabilization of dia- and metaphyseal fractures of long tubular bones] Krettek C, et al. **Orthopade** 1997 May;26(5):408–21 (80 ref.) (Eng. Abstr.) **(Ger)**

[Seidel humerus intramedullary nailing. Clinical results of 100 surgeries] Kelsch G, et al. **Unfallchirurg** 1997 Feb; 100(2):111–8 (Eng. Abstr.) **(Ger)**

[Distal femoral fractures. Transarticular reconstruction, percutaneous plate osteosynthesis and retrograde nailing] Krettek C, et al. **Unfallchirurg** 1996 Jan;99(1):2–10 (20 ref.) (Eng. Abstr.) **(Ger)**

[Analysis of implantation-induced nail deformation and roentgen morphometric studies as the principle for an aiming device for distal interlocking nailing without roentgen image intensification] Krettek C, et al. **Unfallchirurg** 1996 Sep;99(9):671–8 (Eng. Abstr.) **(Ger)**

[Development and initial clinical use of an aiming device for distal boring in interlocking nailing without roentgen image intensifier for the unreamed tibial nail] Krettek C, et al. **Unfallchirurg** 1996 Nov;99(11):845–54 (Eng. Abstr.) **(Ger)**

[Problems in removal of a broken unreamed tibial nail] Rangger C, et al. **Unfallchirurg** 1996 Jan;99(1):68–70 (Eng. Abstr.) **(Ger)**

[Results of primary unreamed tibial nailing of tibial fractures with severe open or closed soft tissue injuries] Runkel M, et al. **Unfallchirurg** 1996 Oct;99(10):771–7 (Eng. Abstr.) **(Ger)**

[Advantages of the unreamed tibial nail in comparison with external fixator in treatment of grade 3 B open tibial shaft fractures] Schandelmaier P, et al. **Unfallchirurg** 1997 Apr; 100(4):286–93 (Eng. Abstr.) **(Ger)**

[Surgical management of bone metastases of the lower extremity with AO interlocking nail] Krawzak HW, et al. **Zentralbl Chir** 1996;121(11):994–8; discussion 999 (Eng. Abstr.) **(Ger)**

METHODS

Our first experiences with the Unreamed Femoral Nail (UFN). Broos P, et al. **Acta Chir Belg** 1997 Jan–Feb; 97(1):27–32

Biomechanics of rigid tibial nail insertion sites. Carr JB, et al. **Am J Orthop** 1996 Aug;25(8):553–6

Percutaneous pinning of the proximal humerus. Ebraheim N, et al. **Am J Orthop** 1996 Jul;25(7):500, 501, 506

Intramedullary nailing for chronic tibial stress fractures. A review of five cases. Chang PS, et al. **Am J Sports Med** 1996 Sep–Oct;24(5):688–92

Soft-tissue blood flow following reamed versus unreamed locked intramedullary nailing: a fractured sheep tibia model. Schemitsch EH, et al. **Ann Plast Surg** 1996 Jan; 36(1):70–5

Placement of the distal locking screws of the femoral intramedullary nail without radiation. Steriopoulos KA, et al. **Arch Orthop Trauma Surg** 1996;115(1):43–4

Flexible intramedullary nail fixation of pediatric femoral fractures. Carey TP, et al. **Clin Orthop** 1996 Nov; (332):110–8

Retrograde nailing of the femur using an intercondylar approach. Herscovici D Jr, et al. **Clin Orthop** 1996 Nov; (332):98–104

Bone transport using intramedullary fixation and a single flexible traction cable. Hyodo A, et al. **Clin Orthop** 1996 Apr;(325):256–68

Reamed interlocking intramedullary nailing of open fractures of the tibia. Keating JF, et al. **Clin Orthop** 1997 May; (338):182–91

Treatment of humeral shaft fractures by retrograde locked nailing. Lin J, et al. **Clin Orthop** 1997 Sep;(342):147–55

Effect of proximal and distal venting during intramedullary nailing. Martin R, et al. **Clin Orthop** 1996 Nov;(332):80–9

Reamed femoral nailing in patients with multiple injuries. Adverse effects of tourniquet use. Pollak AN, et al. **Clin Orthop** 1997 Jun;(339):41–6

Missed Monteggia fracture dislocation in children. Devnani AS. **Injury** 1997 Mar;28(2):131–3

Interlocking nailing of humeral shaft fractures: the Oxford experience 1991 to 1994. Hems TE, et al. **Injury** 1996 Sep; 27(7):485–9

A traction technique for intramedullary nailing of tibial fractures. McBirnie JM, et al. **Injury** 1996 Dec;27(10):733–4

Preventing guide wire removal during intramedullary reaming. O'Connor D, et al. **Injury** 1997 Mar;28(2):160–1

A useful tip for distal interlocking in femoral intramedullary nailing. Palmer SH, et al. **Injury** 1996 Sep;27(7):528

Intramedullary locked nailing of femur and tibia: insertion of distal locking screws without image intensifier. Pennig D, et al. **Injury** 1997 May;28(4):323–6

Retrograde nailing for distal femoral fractures in Paget's disease. Sinha AK, et al. **Injury** 1996 Sep;27(7):514–5

Interlocking intramedullary nailing with and without reaming for the treatment of closed fractures of the tibial shaft. A prospective, randomized study. Blachut PA, et al. **J Bone Joint Surg Am** 1997 May;79(5):640–6

Locking intramedullary nailing with and without reaming for open fractures of the tibial shaft. A prospective, randomized study. Keating JF, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):334–41

Reamed or unreamed nailing for closed tibial fractures [letter; comment] Harrington P, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):697–8. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):580–3.

A technique for intramedullary nailing of proximal third tibia fractures. Buehler KC, et al. **J Orthop Trauma** 1997 Apr; 11(3):218–23

A new technique for complex fibula fracture fixation in the elderly: a clinical and biomechanical evaluation. Koval KJ, et al. **J Orthop Trauma** 1997 Jan;11(1):28–33

The effect of single-pass reaming on tibial nail insertion load and stress. Schmeling GJ, et al. **J Orthop Trauma** 1996; 10(8):569–74

Compartment pressures during nonreamed tibial nailing without traction. Tornetta P 3rd, et al. **J Orthop Trauma** 1997 Jan;11(1):24–7

Distal tibial nonunion treated by intramedullary reaming with

external immobilization. Wu CC, et al.
J Orthop Trauma 1996;10(1):45–9
Displaced radial neck fractures in children treated by closed intramedullary pinning (Metaizeau technique).
González-Herranz P, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):325–31
Closed flexible intramedullary nailing of the femoral shaft fractures in children. Mazda K, et al.
J Pediatr Orthop B 1997 Jul;6(3):198–202
The effect of dynamization on slowing the healing of femur shaft fractures after interlocking nailing. Wu CC.
J Trauma 1997 Aug;43(2):263–7
Distal locking screws [letter; comment] Blasier RB.
Orthopedics 1996 Nov;19(11):926–7. Comment on: Orthopedics 1996 Jul;19(7):593–5.
Anterior unicortical buttress plating in conjunction with an unreamed interlocking intramedullary nail for treatment of very proximal tibial diaphyseal fractures. Matthews DE, et al. **Orthopedics** 1997 Jul;20(7):647–8
Biomechanical analysis of nonreamed tibial intramedullary nailing after simulated transverse fracture and fibulectomy. Thomas KA, et al. **Orthopedics** 1997 Jan;20(1):51–7
[Personal experience with elastic stable intramedullary osteosynthesis in children] Bartl V, et al. **Rozhl Chir** 1996 Oct;75(10):486–8 (Eng. Abstr.) **(Cze)**
[Nail locking. Technique--indications--prospects for the future] Kempf I. **Chirurgie** 1997;122(3):168–9 **(Fre)**
[Surgery of bone metastases in advanced age?] Grabbe F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:925–7 (Eng. Abstr.) **(Ger)**
[Fractures after total knee joint endoprosthesis. Results of treatment with various stabilizing methods] Hopf C, et al. **Unfallchirurgie** 1997 Jun;23(3):92–9 (Eng. Abstr.) **(Ger)**
[Treatment of tibial shaft fracture by Ender's closed intramedullary nailing] Semenowicz J, et al.
Chir Narzadow Ruchu Ortop Pol 1996;61(5):467–72 (Eng. Abstr.) **(Pol)**
[Treatment of compound C2 tibial shaft fracture with Polfix fixator in the pillar version] Wójcik B, et al.
Chir Narzadow Ruchu Ortop Pol 1996;61(4):415–22 (Eng. Abstr.) **(Pol)**

VETERINARY

Interlocking intramedullary nail stabilization of a femoral fracture in a dog with osteomyelitis. Muir P, et al.
J Am Vet Med Assoc 1996 Oct 1;209(7):1262–4

FRACTURE HEALING

see related
CALLUS

Dens fractures in the elderly. Results of anterior screw fixation in 19 elderly patients. Berlemann U, et al.
Acta Orthop Scand 1997 Aug;68(4):319–24
Ununited proximal pole scaphoid fractures. Treatment with a Herbert screw in 16 cases followed for 0.5–8 years. Inoue G, et al. **Acta Orthop Scand** 1997 Apr;68(2):124–7
Bone-cement fixation for calcaneus fracture--a report on 2 elderly patients. Kiyoshige Y, et al. **Acta Orthop Scand** 1997 Aug;68(4):408–9
Shortening of clavicle after fracture. Incidence and clinical significance, a 5-year follow-up of 85 patients. Nordqvist A, et al. **Acta Orthop Scand** 1997 Aug;68(4):349–51
Biaxial dynamization in unstable intertrochanteric fractures. Good experience with a simplified Medoff sliding plate in 94 patients. Olsson O, et al. **Acta Orthop Scand** 1997 Aug;68(4):327–31
Acoustic assessment of fracture healing. Capabilities and limitations of "a lost art". Siffert RS, et al.
Am J Orthop 1996 Sep;25(9):614–8
Limb revascularization to stimulate bone fracture healing. Prêtre R, et al. **Am Surg** 1997 Sep;63(9):836–8
Identification of a dual leucine zipper kinase involved in rat fracture repair. Matsui N, et al.
Biochem Biophys Res Commun 1996 Dec 13;229(2):571–6
Role of exchanged ions in the integration of ionomeric (glass polyalkenoate) bone substitutes. Carter DH, et al.
Biomaterials 1997 Mar;18(6):459–66
Morphological and biomechanical difference in healing in segmental tibial defects implanted with Biocoral or tricalcium phosphate cylinders. Gao TJ, et al.
Biomaterials 1997 Feb;18(3):219–23
Quantitative assessment of experimental fracture repair by peripheral computed tomography. Augat P, et al.
Calcif Tissue Int 1997 Feb;60(2):194–9
Associations of early premenopausal fractures with subsequent fractures vary by sites and mechanisms of fractures. Honkanen R, et al. **Calcif Tissue Int** 1997 Apr; 60(4):327–31
Ultrasound bone densitometry of os calcis in elderly Japanese women with hip fracture. Sakata S, et al.
Calcif Tissue Int 1997 Jan;60(1):2–7
Guided bone regeneration in long bone. An experimental study. Lu S, et al. **Chin Med J (Engl)** 1996 Jul;109(7):551–4
The effects of cigarette smoke on the progression of septic pseudarthrosis of the tibia treated by Ilizarov external fixator. Gualdrini G d, et al. **Chir Organi Mov** 1996 Sep-Dec;81(4):395–400 hl
(Eng, Ita)
Nonreamed locking intramedullary nailing for open fractures of the tibia. Bonatus T, et al. **Clin Orthop** 1997 Jun; (339):58–64
Bone mineral changes during tibial fracture healing. Cattermole HC, et al. **Clin Orthop** 1997 Jun;(339):190–6
Acceleration of tibia and distal radius fracture healing in patients who smoke. Cook SD, et al. **Clin Orthop** 1997 Apr;(337):198–207
Treatment of tibial plateau fractures by limited internal fixation. Duwelius PJ, et al. **Clin Orthop** 1997 Jun; (339):47–57
Improved fracture healing with less rigid plates. A biomechanical study in dogs. Foux A, et al.
Clin Orthop 1997 Jun;(339):232–45
Bone transport using intramedullary fixation and a single flexible traction cable. Hyodo A, et al. **Clin Orthop** 1996 Apr;(325):256–68
Role of magnetic resonance imaging in assessing factors affecting healing in scaphoid nonunions. Morgan WJ, et al. **Clin Orthop** 1997 Mar;(336):240–6
Treatment of pathological fractures of the humeral shaft due to bone metastases: a comparison of intramedullary locking nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6
Reamed against unreamed nailing of the femoral diaphysis: a retrospective study of healing time. Giannoudis PV, et al. **Injury** 1997 Jan;28(1):15–8
Cyclical micromovement and fracture healing [letter; comment] Goodship AE. **J Bone Joint Surg Br** 1996 Jan; 78(1):166–7. Comment on: J Bone Joint Surg Br 1995 Jul;77(4):645–8.
Refracture of the forearm in children. Schwarz N, et al.
J Bone Joint Surg Br 1996 Sep;78(5):740–4
Three-fold induction of renal 25-hydroxyvitamin D3-24-hydroxylase activity and increased serum 24,25-dihydroxyvitamin D3 levels are correlated with the healing process after chick tibial fracture. Seo EG, et al.
J Bone Miner Res 1997 Apr;12(4):598–606
The lateral epicondyle as a bone graft donor site in procedures about the elbow. Charles LM, et al.
J Hand Surg [Am] 1997 May;22(3):547–9
X-ray film measurements for healed distal radius fractures [published erratum appears in J Hand Surg [Am] 1996 May;21(3):532] Kreder HJ, et al. **J Hand Surg [Am]** 1996 Jan;21(1):31–9
Early histologic and ultrastructural changes in microvessels of periosteal callus [see comments] Brighton CT, et al.
J Orthop Trauma 1997 May;11(4):244–53. Comment in: J Orthop Trauma 1997 May;11(4):243.
Problems with delayed and impaired fracture healing remain a challenge to the orthopedic trauma surgeon [editorial; comment] Einhorn TA. **J Orthop Trauma** 1997 May; 11(4):243. Comment on: J Orthop Trauma 1997 May;11(4):244–53.
Connective tissue parameters in experimental nonunion. Hietaniemi K, et al. **J Orthop Trauma** 1996;10(2):114–8
Evaluation of ground cortical autograft as a bone graft material in a new canine bilateral segmental long bone defect model. Johnson KD, et al. **J Orthop Trauma** 1996; 10(1):28–36
The use of endosteal substitution in the treatment of recalcitrant nonunions of the femur: report of seven cases. Matelic TM, et al. **J Orthop Trauma** 1996;10(1):1–6
Assessment of fracture healing in the tibia using the impulse response method. Nakatsuchi Y, et al. **J Orthop Trauma** 1996;10(1):50–62
Extended uses for the Herbert/Whipple screw: six case reports out of 35 illustrating technique. Reimer H, et al.
J Orthop Trauma 1996;10(1):7–14
Distal tibial nonunion treated by intramedullary reaming with external immobilization. Wu CC, et al.
J Orthop Trauma 1996;10(1):45–9
Isolated fractures of the tibia with intact fibula in children: a review of 95 patients. Yang JP, et al.
J Pediatr Orthop 1997 May–Jun;17(3):347–51
Periosteum: its relation to pediatric fractures. Jacobsen FS.
J Pediatr Orthop B 1997 Apr;6(2):84–90 (94 ref.)
Monitoring healing of acute Charcot's arthropathy with infrared dermal thermometry. Armstrong DG, et al.
J Rehabil Res Dev 1997 Jul;34(3):317–21
Type 2 fractures of the distal clavicle: a new surgical technique. Goldberg JA, et al. **J Shoulder Elbow Surg** 1997 Jul–Aug;6(4):380–2
Healing rate of transverse osteotomies of the olecranon used in reconstruction of distal humerus fractures. Gainor BJ, et al. **J South Orthop Assoc** 1995 Winter;4(4):263–8
Reduction of angulated metacarpal fractures with a custom fracture-brace. Jones AR. **J South Orthop Assoc** 1995 Winter;4(4):269–76
Spinal canal remodeling in burst fractures of the thoracolumbar spine: a computerized tomographic comparison between operative and nonoperative treatment. Yazici M, et al. **J Spinal Disord** 1996 Oct;9(5):409–13
Fracture healing in tibia fractures with an associated vascular injury. Brinker MR, et al. **J Trauma** 1997 Jan;42(1):11–9
External fixation-minimal osteosynthesis: indications, role, and place in war surgery. Pukljak D. **J Trauma** 1997 Aug; 43(2):275–82
The effect of dynamization on slowing the healing of femur shaft fractures after interlocking nailing. Wu CC.
J Trauma 1997 Aug;43(2):263–7
Force measurement on fracture site with external fixation. Wang ZG, et al. **Med Biol Eng Comput** 1997 May; 35(3):289–90
Wound healing and revascularization: a histologic observation of experimental tooth root fracture. Jin H, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):26–30
The effect of fracture and fracture fixation on ultrasonic velocity and attenuation. Saulgozis J, et al.
Physiol Meas 1996 Aug;17(3):201–11
Apoptosis is coordinately regulated with osteoblast formation during bone healing. Landry P, et al. **Tissue Cell** 1997 Aug; 29(4):413–9
[Pseudarthrosis (editorial)] Tscherne H. **Orthopade** 1996 Sep; 25(5):385 **(Ger)**

DRUG EFFECTS

Nature and healing of tibial shaft fractures in alcohol abusers. Nyquist F, et al. **Alcohol Alcohol** 1997 Jan–Feb;32(1):91–5
Metabolic and histologic effects of recombinant canine somatotropin on bone healing in dogs, using an unstable ostectomy gap model. Wilkens BE, et al.
Am J Vet Res 1996 Sep;57(9):1395–401
Healing of a tibial double osteotomy is modified by clodronate administration. Nyman MT, et al.
Arch Orthop Trauma Surg 1996;115(2):111–4
Biomechanical analysis of the effects of single high-dose vitamin D3 on fracture healing in a healthy rabbit model. Omeroğlu H, et al. **Arch Orthop Trauma Surg** 1997; 116(5):271–4
Effects of single high-dose vitamin D3 on fracture healing. An ultrastructural study in healthy guinea pigs. Omeroğlu S, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):37–40
Heparan-like molecules induce the repair of skull defects. Blanquaert F, et al. **Bone** 1995 Dec;17(6):499–506
Effects of indomethacin and local prostaglandin E2 on fracture healing in rabbits. Keller J. **Dan Med Bull** 1996 Sep;43(4):317–29 (177 ref.)
24R,25-dihydroxyvitamin D3: an essential vitamin D3 metabolite for both normal bone integrity and healing of tibial fracture in chicks. Seo EG, et al. **Endocrinology** 1997 Sep;138(9):3864–72
[Effect of 1-chloromethylsilatrane on healing of experimental open bone fractures] Mansurova LA, et al.
Dokl Akad Nauk 1996 Jan;346(1):129–31 **(Rus)**
[Experimental study of the effect of physiologically active combinations on the stimulation of reparative osteogenesis] Mansurova LA, et al. **Dokl Akad Nauk** 1996 Nov; 351(3):416–8 **(Rus)**
[The effect of selenium on free-radical oxidation processes in the bone regenerate after a fracture] Kozlova MV, et al. **Patol Fiziol Eksp Ter** 1997 Apr–Jun;(2):35–7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

[Effect of splenectomy on fracture healing] Schratt HE, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:709–13 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Factors that affect fracture healing [see comments] Heckman JD. **Am J Orthop** 1997 Feb;26(2):161–4. Comment in: Am J Orthop 1997 Jun;26(6):413.
Undisplaced femoral neck fracture in the elderly. Chiu FY, et al. **Arch Orthop Trauma Surg** 1996;115(2):90–3
Extensimetric monitoring of healing in the treatment with the Ilizarov apparatus. A multicenter clinical trial. Ceffa R, et al. **Bull Hosp Jt Dis** 1997;56(1):41–5
Age as a prognostic factor in open tibial fractures in children. Blasier RD, et al. **Clin Orthop** 1996 Oct;(331):261–4
Bone injury response. An animal model for testing theories of regulation. Landry PS, et al. **Clin Orthop** 1996 Nov; (332):260–73
Fracture healing in a rat osteopenia model. Walsh WR, et al. **Clin Orthop** 1997 Sep;(342):218–27
Fracture healing is a process independent of p53 function. Nakayama T, et al. **In Vivo** 1996 Nov–Dec;10(6):553–8
Alterations of fracture healing in the diabetic condition. Kagel EM, et al. **Iowa Orthop J** 1996;16:147–52 (33 ref.)
Comparative bone healing near eroding polylactide-polyglycolide implants of differing crystallinity in rabbit tibial bone chambers. Winet H, et al.
J Biomater Sci Polym Ed 1997;8(7):517–32
Study of the vibrational behaviour of a healing tibia using finite element modelling. Lowet G, et al. **J Biomech** 1996 Aug;29(8):1003–10
Accelerated healing of distal radial fractures with the use of specific, low-intensity ultrasound. A multicenter, prospective, randomized, double-blind, placebo-controlled study. Kristiansen TK, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):961–73
Clinical implications of stiffness and strength changes in fracture healing. Chehade MJ, et al.
J Bone Joint Surg Br 1997 Jan;79(1):9–12
Reamed or unreamed nailing for closed tibial fractures [letter; comment] Smith RM, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):170; discussion 170–1. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):580–3.
A new role for the chondrocyte in fracture repair: endochondral ossification includes direct bone formation by former chondrocytes. Scammell BE, et al.
J Bone Miner Res 1996 Jun;11(6):737–45
Osteoblasts express types I and II activin receptors during early intramembranous and endochondral bone formation. Shuto T, et al. **J Bone Miner Res** 1997 Mar;12(3):403–11

Dual-energy X-ray absorptiometry as a measure of healing in fractures treated by intramedullary nailing. Cattermole HC, et al. **J Orthop Trauma** 1996;10(8):563–8

Spontaneous healing of a massive tibial cortical defect. Klein DM, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):133–5

A new technique for complex fibula fracture fixation in the elderly: a clinical and biomechanical evaluation. Koval KJ, et al. **J Orthop Trauma** 1997 Jan;11(1):28–33

Avulsion fracture of the calcaneus: report of a case using a new tension band technique. Levi N, et al. **J Orthop Trauma** 1997 Jan;11(1):61–2

Subfascial plate fixation of comminuted diaphyseal femoral fractures: a report of three cases utilizing biological osteosynthesis. van Riet YE, et al. **J Orthop Trauma** 1997 Jan;11(1):57–60

Irreducible open intertrochanteric hip fracture secondary to entrapment of the sciatic nerve in a child. Wiss DA, et al. **J Orthop Trauma** 1997 Jan;11(1):38–40 (10 ref.)

Long bone fracture healing: IGF-I concentrations and specific binding to erythrocytes. Karachaliou FH, et al. **J Pediatr Endocrinol Metab** 1996 Jul–Aug;9(4):491–5

Premature closure of the distal radial physics after fracture of the distal radial metaphysis [letter; comment] Peterson HA. **J Pediatr Orthop** 1997 Jan–Feb;17(1):126–7 (8 ref.). Comment on: J Pediatr Orthop 1995 Jul–Aug;15(4):495–8.

The vibrational mode of the tibia and assessment of bone union in experimental fracture healing using the impulse response method. Nakatsuchi Y, et al. **Med Eng Phys** 1996 Oct;18(7):575–83

Nonoperative management of Types II and III odontoid fractures: the Philadelphia collar versus the halo vest. Polin RS, et al. **Neurosurgery** 1996 Mar;38(3):450–6; discussion 456–7

The integrated processes of hard tissue regeneration with special emphasis on fracture healing. Hollinger J, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):594–606 (87 ref.)

The intraosseous blood supply of the canine radius: implications for healing of distal fractures in small dogs. Welch JA, et al. **Vet Surg** 1997 Jan–Feb;26(1):57–61

[A providential callus? (letter)] Moyikoua A, et al. **Med Trop (Mars)** 1996;56(2):205–6 **(Fre)**

[Callus distraction in tibial defect fractures] Giebel G. **Chirurg** 1996 Nov;67(11):1063–8 (8 ref.) (Eng. Abstr.) **(Ger)**

[Is functional conservative treatment of stable lateral ankle fractures justified?] Richter J, et al. **Chirurg** 1996 Dec; 67(12):1255–60 (Eng. Abstr.) **(Ger)**

[Fate of the calcium-dense proximal fragment in scaphoid fracture] Zimmermann G, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):20–6 (Eng. Abstr.) **(Ger)**

[Ultrasound follow-up of callus distraction--an alternative to roentgen diagnosis?] Richter D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:931–3 (Eng. Abstr.) **(Ger)**

[Pathophysiology of disrupted bone healing] Stürmer KM. **Orthopade** 1996 Sep;25(5):386–93 (20 ref.) (Eng. Abstr.) **(Ger)**

[Functional deficits of the foot after calcaneus fracture] Rosenbaum D, et al. **Sportverletz Sportschaden** 1996 Jun; 10(2):32–7 (Eng. Abstr.) **(Ger)**

[Fracture healing. Morphologic and physiologic aspects] Braun W, et al. **Unfallchirurg** 1996 Jan;99(1):59–67 (18 ref.) **(Ger)**

[Long-term results of therapy of open and closed fractures of the elbow joint] Seekamp A, et al. **Unfallchirurg** 1997 Mar;100(3):205–11 (Eng. Abstr.) **(Ger)**

[Elastic plate osteosynthesis, biomechanics, indications and technique in comparison with rigid osteosynthesis] Stürmer KM. **Unfallchirurg** 1996 Nov;99(11):816–29 (57 ref.) (Eng. Abstr.) **(Ger)**

[Hypertrophic callus formation and craniocerebral trauma: early diagnosis and behavior of basic fibroblast growth factor] Wildburg R, et al. **Unfallchirurg** 1996 Jan; 99(1):17–23 (Eng. Abstr.) **(Ger)**

[Functional fracture treatment of the upper arm] Goldhahn S, et al. **Unfallchirurgie** 1996 Oct;22(5):209–15 (Eng. Abstr.) **(Ger)**

[The issue of fracture healing of pathologic femoral shaft fracture in disuse osteoporosis] Deszczyński J, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):385–91 (Eng. Abstr.) **(Pol)**

[Relationship between osteocalcin serum level and radiologic changes in long bone fracture healing--preliminary conclusions] Niedźwiedzki T, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):149–54 (Eng. Abstr.) **(Pol)**

RADIATION EFFECTS

Promotion of bone repair in the cortical bone of the tibia in rats by low energy laser (He-Ne) irradiation. Yaakobi T, et al. **Calcif Tissue Int** 1996 Oct;59(4):297–300

The Nicolas Andry Award-1995. Fracture healing. Radiation induced alterations. Pelker RR, et al. **Clin Orthop** 1997 Aug;(341):267–82

Effect of low-power He-Ne laser on fracture healing in rats. David R, et al. **Lasers Surg Med** 1996;19(4):458–64

[Extracorporeal shock-wave therapy. Experimental basis, clinical application] Rompe JD, et al. **Orthopade** 1997 Mar; 26(3):215–28 (Eng. Abstr.) **(Ger)**

FRACTURES

see related
CALLUS

Frequency of throat-skeleton fractures in hanging. Betz P, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):191–3

Barotraumatic fracture of the stapes footplate [letter; comment] Lehrer JF. **Am J Otol** 1997 Mar;18(2):266–7. Comment on: Am J Otol 1996 Sep;17(5):697–9.

Broadband ultrasound attenuation predicts fractures strongly and independently of densitometry in older women. A prospective study. Study of Osteoporotic Fractures Research Group [see comments] Bauer DC, et al. **Arch Intern Med** 1997 Mar 24;157(6):629–34. Comment in: ACP J Club 1997 Sep–Oct;127(2):42.

Traumatic posterior dislocation of the shoulder with fracture of the acromion in a child. Nakae H, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):238–9

Traumatic lesions of the acetabular triradiate cartilage (presentation of four cases and considerations on treatment). Valdiserri L, et al. **Chir Organi Mov** 1996 Sep–Dec;81(4):361–7 **(Eng, Ita)**

Clavicular fracture in newborns [letter] [see comments] Bergeson PS, et al. **Clin Pediatr (Phila)** 1997 Feb;36(2):123 . Comment in: Clin Pediatr (Phila) 1997 Aug;36(8):491.

Intra-articular fractures of the calcaneum: why such controversy? Eastwood DM, et al. **Injury** 1997 May; 28(4):247–59 (96 ref.)

Red blood cell metabolism in men during long term bed rest. Scianowski J, et al. **Int J Occup Med Environ Health** 1995; 8(4):315–19

Bilateral fractures of the capitulum. A case report. Acharya S, et al. **Int Orthop** 1996;20(5):337–8

Ranking the fracture toughness of thin mammalian soft tissues using the scissors cutting test. Pereira BP, et al. **J Biomech** 1997 Jan;30(1):91–4

Pediatric maxillofacial fractures. Spring PM, et al. **J La State Med Soc** 1996 May;148(5):199–203

Fractures and nonunions of the scaphoid. Rayan GM. **J Okla State Med Assoc** 1996 Sep;89(9):315–23 (74 ref.)

Pubic rami fracture [letter] Blasier RD. **J Orthop Trauma** 1997 Jul;11(5):386; discussion 386–7

Three-view radiographic assessment of heterotopic ossification after acetabular fracture surgery. Moed BR, et al. **J Orthop Trauma** 1996;10(2):93–8

Avulsion fractures of the anterior superior iliac spine in adolescents. Rosenberg N, et al. **J Orthop Trauma** 1996; 10(6):440–3

Pubic Rami fracture [letter] Trafton PG. **J Orthop Trauma** 1997 Jul;11(5):386; discussion 386–7

How I do it: cervical visor flap approach to bilateral mandible fractures. Alvi A. **J Otolaryngol** 1996 Dec;25(6):421–2

Flexible intramedullary nailing as fracture treatment in children. Huber RI, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):602–5

Proximal fibular physeal injury. Havránek P. **J Pediatr Orthop B** 1996 Spring;5(2):115–8

The triplane fracture: four years of follow-up of 21 cases and review of the literature. Kärrholm J. **J Pediatr Orthop B** 1997 Apr;6(2):91–102

Base of the fifth metatarsal fractures, an unusual presentation. Smith AL, et al. **J R Army Med Corps** 1997 Feb;143(1):51–2

Diagnosis and management of closed internal degloving injuries associated with pelvic and acetabular fractures: the Morel-Lavallée lesion. Hak DJ, et al. **J Trauma** 1997 Jun; 42(6):1046–51

Statistical analysis in Abbreviated Injury Scale does not reflect the added morbidity of multiple lower extremity fractures (J. Trauma 1996; 40; 951) [letter; comment] Wright SW. **J Trauma** 1997 Jul;43(1):173–4. Comment on: J Trauma 1996 Jun;40(6):951–4; discussion 954–5. Comment on: J Trauma 1997 Feb;42(2):347–8.

Acetabular fractures. Perry DC, et al. **Orthop Clin North Am** 1997 Jul;28(3):405–17 (27 ref.)

Assessment and management of pelvic fracture in the hemodynamically unstable patient. Wolinsky PR. **Orthop Clin North Am** 1997 Jul;28(3):321–9 (58 ref.)

Bilateral, asynchronous, apophyseal fractures in the pelvis and proximal femur. Wexler G, et al. **Orthopedics** 1997 Aug;20(8):715–8

[Gynecological management of osteoporosis and prevention of osteoporotic fracture] Minaguchi H. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug; 48(8):563–72 (23 ref.) **(Jpn)**

[Polish "ZESPOL" osteosynthesis in diaphyses fractures in children] Siarkiewicz J, et al. **Pediatr Pol** 1996 Jun; 71(6):537–41 (Eng. Abstr.) **(Pol)**

[Clavicular fracture in a neonate] Azcúnaga Santibáñez B, et al. **An Esp Pediatr** 1997 Apr;46(4):416–7 **(Spa)**

[Cortical fracture of the sternum in a child: an infrequent case] Pérez-Martínez A, et al. **Cir Pediatr** 1996 Jul; 9(3):130–1 (Eng. Abstr.) **(Spa)**

BLOOD

Relation between insulin-like growth factor-I concentrations, osteoarthritis, bone density, and fractures in the general population: the Chingford study. Lloyd ME, et al. **Ann Rheum Dis** 1996 Dec;55(12):870–4

CLASSIFICATION

Classification of fractures of the talus: clear differentiation between neck and body fractures. Inokuchi S, et al. **Foot Ankle Int** 1996 Dec;17(12):748–50

Fractures of the coracoid process [letter; comment] Goss TP. **J Bone Joint Surg Br** 1997 Jul;79(4):694. Comment on: J Bone Joint Surg Br 1997 Jan;79(1):17–9.

Fractures of the coracoid process [see comments] Ogawa K, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):17–9. Comment in: J Bone Joint Surg Br 1997 Jul;79(4):694.

An unclassified fracture of the talus. Niehaus LP, et al. **J Foot Ankle Surg** 1997 May-Jun;36(3):180–4

Fracture and dislocation compendium. Orthopaedic Trauma Association Committee for Coding and Classification. **J Orthop Trauma** 1996;10 Suppl 1:v–ix, 1–154

AO fracture classification logos, as evocative signposts [letter] Taylor JK. **J Orthop Trauma** 1996;10(2):146

Type 2 fractures of the distal clavicle: a new surgical technique. Goldberg JA, et al. **J Shoulder Elbow Surg** 1997 Jul–Aug;6(4):380–2

Role of Tile classification in predicting urethral injuries in pediatric pelvic fractures. Batislam E, et al. **J Trauma** 1997 Feb;42(2):285–7

Internal fixation in pelvic fractures and primary repairs of associated genitourinary disruptions: a team approach [letter; comment] McKee MD. **J Trauma** 1997 May; 42(5):981. Comment on: J Trauma 1996 May;40(5):784–90.

Current classification of fractures. Rationale and utility. Martin JS, et al. **Radiol Clin North Am** 1997 May; 35(3):491–506 (45 ref.)

[Periarticular fractures of the upper and lower extremity. I: ABC classification using the AO principle] Arand M, et al. **Rontgenpraxis** 1997 Jun;50(6):168–74 (16 ref.) **(Ger)**

COMPLICATIONS

Myositis ossificans in an infant. Gombault V, et al. **Acta Orthop Belg** 1996 Sep;62(3):177–9

Shortening of clavicle after fracture. Incidence and clinical significance, a 5-year follow-up of 85 patients. Nordqvist A, et al. **Acta Orthop Scand** 1997 Aug;68(4):349–51

Fractures and phenylketonuria. Greeves LG, et al. **Acta Paediatr** 1997 Mar;86(3):242–4

Sternal fractures in blunt chest trauma: a practical algorithm for management. Chiu WC, et al. **Am J Emerg Med** 1997 May;15(3):252–5

The crippling consequences of fractures and their impact on quality of life. Cooper C. **Am J Med** 1997 Aug 18; 103(2A):12S–17S; discussion 17S–19S (34 ref.)

Management of complications from 820 temporal bone fractures. Brodie HA, et al. **Am J Otol** 1997 Mar; 18(2):188–97 (55 ref.)

Extracranial vertebral artery dissection after trauma: a 5-year review. Thibodeaux LC, et al. **Br J Surg** 1997 Jan;84(1):94

North American blastomycosis of the vertebrae in an adolescent [letter; comment] Challapalli M, et al. **Clin Infect Dis** 1996 Oct;23(4):853–4. Comment on: Clin Infect Dis 1996 Mar;22(3):496–502.

Laryngeal trauma and laryngeal pain. Sataloff RT, et al. **Ear Nose Throat J** 1997 Jun;76(6):366

Occult fractures following subtalar joint injuries. Bohay DR, et al. **Foot Ankle Int** 1996 Mar;17(3):164–9 (11 ref.)

Ipsilateral fractures of the talus and calcaneus. Gregory P, et al. **Foot Ankle Int** 1996 Nov;17(11):701–5

Closed complete rupture of the flexor hallucis longus tendon at the groove of the talus. Inokuchi S, et al. **Foot Ankle Int** 1997 Jan;18(1):47–9 (10 ref.)

Interphalangeal dislocation of the fourth toe with avulsion-fracture in a child: report of a case. Neubauer T, et al. **Foot Ankle Int** 1997 Mar;18(3):175–7

Calcaneal malunions: results of a prognostic computed tomography classification system. Stephens HM, et al. **Foot Ankle Int** 1996 Jul;17(7):395–401

Intermittent pneumatic pedal compression and edema resolution after acute ankle fracture: a prospective, randomized study. Thordarson DB, et al. **Foot Ankle Int** 1997 Jun;18(6):347–50

Calcaneal fracture with peroneal impingement and tendon dysfunction. Wright DG, et al. **Foot Ankle Int** 1996 Oct; 17(10):650

Incidence of five common fracture types in an institutional epileptic population [letter; comment] Krikler SJ. **Injury** 1996 Dec;27(10):758–9. Comment on: Injury 1996 Mar;27(2):97–100.

Vascular injuries associated with limb fractures. al-Salman MM, et al. **Injury** 1997 Mar;28(2):103–7

The fat embolism syndrome. ten Duis HJ. **Injury** 1997 Mar; 28(2):77–85 (118 ref.)

Changing patterns of arterial injuries associated with fractures and dislocations. Atteberry LR, et al. **J Am Coll Surg** 1996 Oct;183(4):377–83

Fracture of the scapula with intrathoracic penetration. A case report. Blue JM, et al. **J Bone Joint Surg Am** 1997 Jul; 79(7):1076–8

Entrapment of the bladder in an acetabular fracture. A case report. McKee MD, et al. **J Bone Joint Surg Am** 1997 Jan; 79(1):113–7

Acute hematogenous osteomyelitis in intravenous drug users. Fox IM, et al. **J Foot Ankle Surg** 1997 Jul-Aug;36(4):301–5 (13 ref.)

Fracture of the hook of hamate with rupture of the flexor tendons of the small finger in a rheumatoid patient: a case report. Yang SS, et al. **J Hand Surg [Am]** 1996 Sep; 21(5):916–7

An unreported cause of rupture of the extensor pollicis longus tendon. Cassell OC, et al. **J Hand Surg [Br]** 1996 Oct; 21(5):640–1

Effect of trauma and pelvic fracture on female genitourinary, sexual, and reproductive function. Copeland CE, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):73–81

Scaphocapitate syndrome in a child associated with a distal radius and ulna fracture. Mazur K, et al. **J Orthop Trauma** 1997 Apr;11(3):230–2

Incidence of sciatic nerve injury in operatively treated acetabular fractures without somatosensory evoked potential monitoring. Middlebrooks ES, et al. **J Orthop Trauma** 1997 Jul;11(5):327–9

The detection and management of proximal deep venous thrombosis in patients with acute acetabular fractures: a follow-up report. Montgomery KD, et al. **J Orthop Trauma** 1997 Jul;11(5):330–6

Congenital insensitivity to pain: orthopaedic implications. Kuo RS, et al. **J Pediatr Orthop B** 1996 Fall;5(4):292–5

Rare traumatic aorto-iliac dissection injury in a child with pelvic fracture and urethral rupture: a case report. Namasivayam S, et al. **J Pediatr Surg** 1997 Apr; 32(4):638–40

Quadraplegia in a patient with an undiagnosed odontoid peg fracture. The importance of cervical spine immobilisation in patients with head injuries. Powell RM, et al. **J R Army Med Corps** 1996 Jun;142(2):79–81

Clavicular fractures and ipsilateral acromioclavicular arthrosis. Edelson JG. **J Shoulder Elbow Surg** 1996 May–Jun;5(3):181–5

Arterial embolization is a rapid and effective technique for controlling pelvic fracture hemorrhage. Agolini SF, et al. **J Trauma** 1997 Sep;43(3):395–9

Role of Tile classification in predicting urethral injuries in pediatric pelvic fractures. Batislam E, et al. **J Trauma** 1997 Feb;42(2):285–7

Long-term outcomes in open pelvic fractures. Brenneman FD, et al. **J Trauma** 1997 May;42(5):773–7

Postrenal anuria in pelvic or acetabular injury: a report of three cases. Hötker U, et al. **J Trauma** 1996 Nov; 41(5):916–9

Pseudoaneurysm of the superior gluteal arterial system: an unusual cause of pain after a pelvic fracture. Stephen DJ. **J Trauma** 1997 Jul;43(1):146–9

Re: Pelvic fracture urethral injuries: evaluation of various methods of management [letter; comment] Chiou RK, et al. **J Urol** 1997 Aug;158(2):550. Comment on: J Urol 1996 Oct;156(4):1288–91.

Posttraumatic posterior urethral strictures in children: a 20-year experience. Koraitim MM. **J Urol** 1997 Feb; 157(2):641–5

Pelvic fracture urethral injuries: evaluation of various methods of management [see comments] Koraitim MM. **J Urol** 1996 Oct;156(4):1288–91 (27 ref.). Comment in: J Urol 1997 Aug;158(2):550.

Immediate management of posterior urethral disruptions due to pelvic fracture: therapeutic alternatives. Podestá ML, et al. **J Urol** 1997 Apr;157(4):1444–8

Combined vascular injuries and limb fractures. Porcellini M, et al. **Minerva Cardioangiol** 1997 Apr;45(4):131–8

Milk-alkali syndrome in an aged patient with osteoporosis and fractures [letter] Lin SH, et al. **Nephron** 1996; 73(3):496–7

Evaluation of lacrimal obstruction secondary to facial fractures using computed tomography or computed tomographic dacryocystography. Glatt HJ. **Ophthal Plast Reconstr Surg** 1996 Dec;12(4):284–93

Practical management of venous thromboembolism following pelvic fractures. Montgomery KD, et al. **Orthop Clin North Am** 1997 Jul;28(3):397–404 (56 ref.)

Complications of skeletal trauma. Ehara S. **Radiol Clin North Am** 1997 May;35(3):767–81 (58 ref.)

Production of interleukin-10 in human fracture soft-tissue hematomas. Hauser CJ, et al. **Shock** 1996 Jul;6(1):3–6

Management of injury to the posterior urethra in Queen Elizabeth Central Hospital between 1990–1992 [see comments] van Hasselt EJ. **Trop Doct** 1996 Jul;26(3):129–30 . Comment in: Trop Doct 1996 Jul;26(3):97–8.

[Pregnancy and labor in congenital and acquired pelvic injuries] Bozhinova S, et al. **Akush Ginekol (Sofiia)** 1996; 35(3):4–6 (Eng. Abstr.) **(Bul)**

[Associated injuries of the pelvis] Michek J, et al. **Rozhl Chir** 1996 Jun;75(6):316–8 (Eng. Abstr.) **(Cze)**

[Perineal injuries in complicated pelvic trauma] David A, et al. **Swiss Surg** 1996;(1):4–9 (35 ref.) (Eng. Abstr.) **(Ger)**

[Pelvic fracture with shock-inducing retroperitoneal bleeding and concomitant lower extremity ischemia syndrome: discussion of management exemplified by a case report] Furrer M, et al. **Swiss Surg** 1996;2(6):238–43 (Eng. Abstr.) **(Ger)**

[Clinical studies on lower urinary tract injury] Tanaka M, et al. **Hinyokika Kiyo** 1997 Jan;43(1):7–12 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of aortic valve regurgitation due to nonpenetrating trauma of the chest—a case report and review of the literature in Japan] Ashida Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):207–12 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Heterotopic ossification as a complication of fracture-dislocations of the forearm in children] Nikitiuk IE, et al. **Vestn Khir Im I I Grek** 1996;155(5):62–5 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Intrasound vibration testing in acute ankle injuries. Plewa MC, et al. **Acad Emerg Med** 1996 Sep;3(9):849–52

MR imaging of clinically suspected scaphoid fractures. Hunter JC, et al. **AJR Am J Roentgenol** 1997 May; 168(5):1287–93

Scaphoid bone waist fractures, acute and chronic: imaging with different techniques. Munk PL, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):779–86 (75 ref.)

Stress and insufficiency fractures. Buckwalter JA, et al. **Am Fam Physician** 1997 Jul;56(1):175–82 (15 ref.)

Management of clavicle fractures. Eiff MP. **Am Fam Physician** 1997 Jan;55(1):121–8 (08 ref.)

Fracture of the os peroneum: an unusual cause of foot pain [letter] McElhinney CC, et al. **Am Fam Physician** 1997 Jun; 55(8):2610, 2612

Significance of short tau inversion recovery magnetic resonance sequence in the management of skeletal injuries. Van Gelderen WF, et al. **Australas Radiol** 1997 Feb; 41(1):13–5

Clinical guidelines for the treatment of osteoporosis in Japan. Fujita T. **Calcif Tissue Int** 1996;59 Suppl 1:34–7 (15 ref.)

Pictorial review: magnetic resonance imaging of acute orthopaedic trauma to the upper extremity. Eustace S, et al. **Clin Radiol** 1997 May;52(5):338–44 (15 ref.)

Injuries at the articulating surfaces of bone (chondral, osteochondral, subchondral fractures and osteochondrosis dissecans). Bohndorf K. **Eur J Radiol** 1996 Mar;22(1):22–9

Fracture-dislocation of the ankle with posterior tibial tendon entrapment within the tibiofibular interosseous space: a case report of a late diagnosis. Anderson JG, et al. **Foot Ankle Int** 1996 Feb;17(2):114–8

A pitfall of coronal computed tomographic imaging in evaluation of calcaneal fractures [see comments] Ebraheim NA, et al. **Foot Ankle Int** 1996 Aug;17(8):503–5. Comment in: Foot Ankle Int 1997 Mar;18(3):189.

Classification of fractures of the talus: clear differentiation between neck and body fractures. Inokuchi S, et al. **Foot Ankle Int** 1996 Dec;17(12):748–50

Predictive value of the hip flexion test for fractures of the pelvis. Ham SJ, et al. **Injury** 1996 Oct;27(8):543–4

The diagnostic management of suspected scaphoid fracture. Tiel-van Buul MM, et al. **Injury** 1997 Jan;28(1):1–8 (63 ref.)

Fractures of the patella. Carpenter JE, et al. **Instr Course Lect** 1994;43:97–108 (37 ref.)

Fractures of the ankle and the distal part of the tibia. Vander Griend R, et al. **Instr Course Lect** 1997;46:311–21 (66 ref.)

Ischial tuberosity apophysitis and avulsion among athletes. Kujala UM, et al. **Int J Sports Med** 1997 Feb;18(2):149–55

A pilot study to assess the sensitivity and specificity of an intrasound device in the diagnosis of ankle fractures. Dancocks A, et al. **J Accid Emerg Med** 1997 Jul;14(4):230–2

Double take--fracture fishing in accident and emergency practice. Hyland-McGuire P, et al. **J Accid Emerg Med** 1997 Mar;14(2):84–7

Toddler's fracture [see comments] Shravat BP, et al. **J Accid Emerg Med** 1996 Jan;13(1):59–61. Comment in: J Accid Emerg Med 1996 Sep;13(5):366–7.

Quantitative ultrasound of the calcaneus reflects the mechanical properties of calcaneal trabecular bone. Bouxsein ML, et al. **J Bone Miner Res** 1997 May; 12(5):839–46

Suspected scaphoid fractures in skeletally immature patients: application of MRI. Cook PA, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):511–5

Gout presenting as non-union of a patellar fracture. Espinosa-Morales R, et al. **J Rheumatol** 1997 Jul; 24(7):1421–2

Experimental evaluation of scaphoid X-series, carpal box radiographs, planar tomography, computed tomography, and magnetic resonance imaging in the diagnosis of scaphoid fracture. Roolker W, et al. **J Trauma** 1997 Feb; 42(2):247–53

Orthopedic aspects of child abuse. Cramer KE. **Pediatr Clin North Am** 1996 Oct;43(5):1035–51

Management of common pediatric fractures. England SP, et al. **Pediatr Clin North Am** 1996 Oct;43(5):991–1012 (12 ref.)

Non-accidental injury: confusion with temporary brittle bone disease and mild osteogenesis imperfecta. Ablin DS, et al. **Pediatr Radiol** 1997 Feb;27(2):111–3 (18 ref.)

Non-accidental injury or brittle bones. Chapman S, et al. **Pediatr Radiol** 1997 Feb;27(2):106–10 (41 ref.)

Expanding the concept of the toddler's fracture. John SD, et al. **Radiographics** 1997 Mar–Apr;17(2):367–76

Imaging of skeletal and soft tissue injuries in and around the knee. Walker CW, et al. **Radiol Clin North Am** 1997 May; 35(3):631–53 (61 ref.)

Radiographically occult scaphoid fractures: value of MR imaging in detection. Breitenseher MJ, et al. **Radiology** 1997 Apr;203(1):245–50

Guidelines for the early detection of osteoporosis and prediction of fracture risk. Council of the National Osteoporosis Foundation. **S Afr Med J** 1996 Sep; 86(9):1113–6

Avulsion fracture of the anterior inferior iliac spine with abundant reactive ossification in the soft tissue. Resnick JM, et al. **Skeletal Radiol** 1996 Aug;25(6):580–4

[MRI of the joints] Haltiala T, et al. **Duodecim** 1995; 111(16):1553–64 (21 ref.) **(Fin)**

[How I explore... an afebrile difficult infant] Bourguignon JP. **Rev Med Liege** 1996 Nov;51(11):726–8 **(Fre)**

[Pelvic and femoral injuries (see comments)] Duruz H. **Rev Med Suisse Romande** 1997 Jan;117(1):77–80. Comment in: Rev Med Suisse Romande 1997 Apr;117(4):365–6. **(Fre)**

[Imaging methods in traumatology of the shoulder- and elbow joint] Heyer D. **Aktuelle Radiol** 1996 Sep;6(5):225–31 (50 ref.) (Eng. Abstr.) **(Ger)**

[Radiologic skeletal diagnosis: traumatology of the distal forearm, the wrists and the hand] Neumann K, et al. **Aktuelle Radiol** 1996 Jul;6(4):171–5 (15 ref.) (Eng. Abstr.) **(Ger)**

[Diagnostic value of magnetic resonance tomography of the upper ankle joint--imaging of ligaments and tendons in standard slice orientation] Schröder RI, et al. **Aktuelle Radiol** 1996 Jan;6(1):19–24 (Eng. Abstr.) **(Ger)**

[Periarticular fractures--what should be observed?] Hald HJ. **Rontgenpraxis** 1997 Jun;50(6):158–67 (41 ref.) **(Ger)**

[Magnetic resonance tomography study of ankle joint fractures. A prospective pathologic-anatomic study] Elsner KS, et al. **Unfallchirurg** 1996 Aug;99(8):581–6 (Eng. Abstr.) **(Ger)**

[Radiologic and histologic observations in central talus fractures] Schwarz N, et al. **Unfallchirurg** 1997 Jun; 100(6):449–56 (Eng. Abstr.) **(Ger)**

[Abnormality as differential diagnosis in atlas fracture] Haakonsen M, et al. **Tidsskr Nor Laegeforen** 1997 Apr 30; 117(11):1602–3 (Eng. Abstr.) **(Nor)**

[Whiplash injuries with objective findings. Delayed diagnosis of fractures of the odontoid process] Hestnes A. **Tidsskr Nor Laegeforen** 1997 Jan 10;117(1):21–2 (Eng. Abstr.) **(Nor)**

[Bone fractures and craniocerebral trauma] Mamonov IuP. **Vestn Khir Im I I Grek** 1996;155(3):63–4 **(Rus)**

DRUG THERAPY

Development of tricalcium phosphate/amylopectin paste combined with recombinant human transforming growth factor beta 1 as a bone defect filler. Ongpipattanakul B, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):295–305

ECONOMICS

The socioeconomic burden of fractures: today and in the 21st century. Johnell O. **Am J Med** 1997 Aug 18; 103(2A):20S–25S; discussion 25S–26S (41 ref.)

Comparison of costs in ankle fractures treated with absorbable or metallic fixation devices. Juutilainen T, et al. **Arch Orthop Trauma Surg** 1997;116(4):204–8

Medical expenditures for the treatment of osteoporotic fractures in the United States in 1995: report from the National Osteoporosis Foundation. Ray NF, et al. **J Bone Miner Res** 1997 Jan;12(1):24–35

Incidence and costs to Medicare of fractures among Medicare beneficiaries aged > or = 65 years--United States, July 1991–June 1992. **MMWR Morb Mortal Wkly Rep** 1996 Oct 18;45(41):877–83

Prevention of osteoporosis--a cost-effectiveness. Analysis regarding fractures. Norlund A. **Scand J Rheumatol Suppl** 1996;103:42–5; discussion 46

ENZYMOLOGY

[Hypertrophic callus formation and craniocerebral trauma: early diagnosis and behavior of basic fibroblast growth factor] Wildburger R, et al. **Unfallchirurg** 1996 Jan; 99(1):17–23 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Fractures of the scapula. Scavenius M, et al. **Acta Orthop Belg** 1996 Sep;62(3):129–32

Falls presenting to the accident and emergency department: types of presentation and risk factor profile. Davies AJ, et al. **Age Ageing** 1996 Sep;25(5):362–6

Long-term effects of reproductive-age menstrual cycle patterns on peri- and postmenopausal fracture risk. Cooper GS, et al. **Am J Epidemiol** 1997 May 1;145(9):804–9

Epidemiology and predictors of fractures associated with osteoporosis. Lips P. **Am J Med** 1997 Aug 18; 103(2A):3S–8S; discussion 8S–11S (41 ref.)

Physical activity, functional limitations, and the risk of fall-related fractures in community-dwelling elderly. Stevens JA, et al. **Ann Epidemiol** 1997 Jan;7(1):54–61

Epidemiology of osteoporotic ankle fractures in elderly persons in Finland. Kannus P, et al. **Ann Intern Med** 1996 Dec 15;125(12):975–8

Fat embolism syndrome. A 10-year review. Bulger EM, et al. **Arch Surg** 1997 Apr;132(4):435–9

Musculoskeletal injury review in the U.S. space program. Jennings RT, et al. **Aviat Space Environ Med** 1996 Aug; 67(8):762–6

The epidemiology and pathogenesis of osteoporosis. Center J, et al. **Baillieres Clin Endocrinol Metab** 1997 Apr; 11(1):23–62 (272 ref.)

Skiing injuries: the increasing workload. Williams RL, et al. **Br J Sports Med** 1995 Dec;29(4):252–4

Associations of early premenopausal fractures with subsequent fractures vary by sites and mechanisms of fractures. Honkanen R, et al. **Calcif Tissue Int** 1997 Apr; 60(4):327–31

New spinal injuries in hockey. Tator CH, et al. **Clin J Sport Med** 1997 Jan;7(1):17–21

Basic epidemiology of fractures of the upper and lower limb among Americans over 65 years of age. Baron JA, et al. **Epidemiology** 1996 Nov;7(6):612–8

Fracture rate, pre- and postmenopausal bone mass and early and late postmenopausal bone loss are not associated with vitamin D receptor genotype in a high-endemic area of osteoporosis. Berg JP, et al. **Eur J Endocrinol** 1996 Jul; 135(1):96–100

Low bone mineral content is common but osteoporotic fractures are rare in elderly rural Gambian women. Aspray TJ, et al. **J Bone Miner Res** 1996 Jul;11(7):1019–25

Calcaneal bone mineral density predicts fracture occurrence: a five-year follow-up study in elderly people. Cheng S, et al. **J Bone Miner Res** 1997 Jul;12(7):1075–82

Predictors of ankle and foot fractures in older women. The Study of Osteoporotic Fractures Research Group. Seeley DG, et al. **J Bone Miner Res** 1996 Sep;11(9):1347–55

Train injuries in children. Blazar PE, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):126–9

In-line skating fractures in children. Mitts KG, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):640–3

Birth trauma. A five-year review of incidence and associated perinatal factors. Perlow JH, et al. **J Reprod Med** 1996 Oct;41(10):754–60 (22 ref.)

Fractures after myelopathy: the risk quantified. Frisbie JH. **J Spinal Cord Med** 1997 Jan;20(1):66–9

An earlier fracture as a risk factor for new fracture and its association with smoking and menopausal age in women. Johansson C, et al. **Maturitas** 1996 May;24(1–2):97–106

Association between urinary incontinence and urinary tract infections, and fractures in postmenopausal women. Johansson C, et al. **Maturitas** 1996 Apr;23(3):265–71

Fractures of neck structures in suicidal hanging. Morild I. **Med Sci Law** 1996 Jan;36(1):80–4

Incidence and costs to Medicare of fractures among Medicare beneficiaries aged > or = 65 years—United States, July 1991–June 1992. **MMWR Morb Mortal Wkly Rep** 1996 Oct 18;45(41):877–83

Women with past history of bone fracture have low spinal bone density before menopause. Goulding A, et al. **N Z Med J** 1997 Jun 27;110(1046):232–3

The number and incidence of minor trauma knee fractures are increasing in elderly women but not in elderly men. Kannus P, et al. **Osteoporos Int** 1997;7(2):149–54

In-line skate and rollerskate injuries in childhood. Powell EC, et al. **Pediatr Emerg Care** 1996 Aug;12(4):259–62

The incidence of osteoporotic fractures at the University Hospital of Tartu, Estonia. Haviko T, et al. **Scand J Rheumatol Suppl** 1996;103:13–5

The role of dairy products and non alcoholic beverages in bone fractures among schoolage children. Petridou E, et al. **Scand J Soc Med** 1997 Jun;25(2):119–25

[Motorcycle accidents in street traffic. An analysis of 86 cases] Wick M, et al. **Unfallchirurg** 1997 Feb;100(2):140–5 (Eng. Abstr.) **(Ger)**

[A statistical contribution to fractures of the maxillofacial area] Russo A, et al. **Minerva Stomatol** 1997 Apr; 46(4):139–45 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Complete obstruction of a naso-endotracheal tube. A case report. Politis C, et al. **Acta Stomatol Belg** 1996 Mar; 93(1):13–6

Stress and insufficiency fractures. Buckwalter JA, et al. **Am Fam Physician** 1997 Jul;56(1):175–82 (15 ref.)

Calcium intake and fracture risk: results from the study of osteoporotic fractures. Cumming RG, et al. **Am J Epidemiol** 1997 May 15;145(10):926–34

Epidemiology and predictors of fractures associated with osteoporosis. Lips P. **Am J Med** 1997 Aug 18; 103(2A):3S–8S; discussion 8S–11S (41 ref.)

Triplane fracture associated with a proximal third fibula fracture. Healy WA 3rd, et al. **Am J Orthop** 1996 Jun; 25(6):449–51

Fractures of the distal shaft of the fifth metatarsal. "Dancer's fracture". O'Malley MJ, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):240–3

Weight change and fractures in older women. Study of Osteoporotic Fractures Research Group. Ensrud KE, et al. **Arch Intern Med** 1997 Apr 28;157(8):857–63

The epidemiology and pathogenesis of osteoporosis. Center J, et al. **Baillieres Clin Endocrinol Metab** 1997 Apr; 11(1):23–62 (272 ref.)

Man's fractured sternum was probably due to snake's weight when it fell [letter] Davies DW. **BMJ** 1997 Jul 19; 315(7101):191

Low bone mass and fast rate of bone loss at menopause: equal risk factors for future fracture: a 15-year follow-up study. Riis BJ, et al. **Bone** 1996 Jul;19(1):9–12

The association between osteoarthritis and osteoporotic fracture: the Chingford Study. Arden NK, et al. **Br J Rheumatol** 1996 Dec;35(12):1299–304

Major pelvic injuries in equestrian sports. O'Farrell DA, et al. **Br J Sports Med** 1997 Sep;31(3):249–51

Urethral injury in girls with fractured pelvis following blunt abdominal trauma. Ahmed S, et al. **Br J Urol** 1996 Sep; 78(3):450–3

Genitourinary tract injuries in girls. Okur H, et al. **Br J Urol** 1996 Sep;78(3):446–9

Fractures in children in south eastern Nigeria. Archibong AE, et al. **Cent Afr J Med** 1996 Dec;42(12):340–3

A neglected avulsion fracture of calcaneal tuberosity associated with diabetes mellitus: a case report. Itokazu M, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):277–80

Newborn clavicle fractures [letter; comment] Joseph PR. **Clin Pediatr (Phila)** 1997 Aug;36(8):491. Comment on: Clin Pediatr (Phila) 1997 Feb;36(2):123.

Water fluoridation and osteoporotic fracture. Hillier S, et al. **Community Dent Health** 1996 Sep;13 Suppl 2:63–8 (23 ref.)

Orthopedic aspects of child abuse. Beaty JH. **Curr Opin Pediatr** 1997 Feb;9(1):100–3 (17 ref.)

Bone density and other possible predictors of fracture risk in children and adolescents with spastic quadriplegia. Henderson RC. **Dev Med Child Neurol** 1997 Apr; 39(4):224–7

Healing rates of diabetic foot ulcers associated with midfoot fracture due to Charcot's arthropathy. Lavery LA, et al. **Diabet Med** 1997 Jan;14(1):46–9

The role of internal fixation in the treatment of Jones fractures in diabetics. Yue JJ, et al. **Foot Ankle Int** 1996 Sep;17(9):559–62

Apolipoprotein E phenotype, arterial disease, and mortality among older women: the study of osteoporotic fractures. Vogt MT, et al. **Genet Epidemiol** 1997;14(2):147–56

Forestalling fracture in osteoporosis. Jackson RD, et al. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):77–95 passim; discussion 107–8

Bilateral wrist fractures from accidental electric shock. Adams AJ, et al. **Injury** 1997 Apr;28(3):227–8

Bilateral acetabular fracture as a result of epileptic seizure: a report of two cases. Granhed HP, et al. **Injury** 1997 Jan; 28(1):65–8

Pelvic ring diastasis and pseudo-diastasis in motorcycle pillion passengers. Price N, et al. **Injury** 1996 Jul; 27(6):441–4

Bicycle-spoke injuries: a prospective study. Segers MJ, et al. **Injury** 1997 May;28(4):267–9

Dysphagia and deformity after undetected odontoid fracture in elderly patients. Ishaque MA, et al. **J Accid Emerg Med** 1995 Dec;12(4):293–5

A case of maternal pelvic trauma following a road traffic accident, associated with fetal intracranial haemorrhage. Matthews G, et al. **J Accid Emerg Med** 1997 Mar; 14(2):115–7

Comparison of two conservative methods of treating an isolated fracture of the lateral malleolus [letter; comment] Williams RL, et al. **J Bone Joint Surg Br** 1997 Mar; 79(2):339–40. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):568–72.

Dual-energy X-ray absorptiometry derived structural geometry for stress fracture prediction in male U.S. Marine Corps recruits. Beck TJ, et al. **J Bone Miner Res** 1996 May;11(5):645–53

Calcaneal bone mineral density predicts fracture occurrence: a five-year follow-up study in elderly people. Cheng S, et al. **J Bone Miner Res** 1997 Jul;12(7):1075–82

Relationship of bone turnover to bone density and fractures. Melton LJ 3rd, et al. **J Bone Miner Res** 1997 Jul; 12(7):1083–91

Fractures attributable to osteoporosis: report from the National Osteoporosis Foundation. Melton LJ 3rd, et al. **J Bone Miner Res** 1997 Jan;12(1):16–23

Fractures after thyroidectomy in men: a population-based cohort study. Nguyen TT, et al. **J Bone Miner Res** 1997 Jul;12(7):1092–9

Fractures among the elderly: an old problem [editorial] Ross PD. **J Bone Miner Res** 1997 Jul;12(7):1005–8 (51 ref.)

The pathogenesis of age-related osteoporotic fracture: effects of dietary calcium deprivation. Prince RL, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):260–4

Fracture risk following bilateral oophorectomy. Melton LJ 3rd, et al. **J Clin Epidemiol** 1996 Oct;49(10):1111–5

Mountain bike injury [letter] Johnson NA, et al. **J Fam Pract** 1997 Sep;45(3):192–3

Scaphoid fractures in soccer goalkeepers. Green JR Jr, et al. **J Okla State Med Assoc** 1997 Feb;90(2):45–7

Patella fractures associated with accelerated ACL rehabilitation in patients with autogenous patella tendon reconstructions. Brownstein B, et al. **J Orthop Sports Phys Ther** 1997 Sep;26(3):168–72

Drug and alcohol use in orthopedic trauma patients: a prospective study. Levy RS, et al. **J Orthop Trauma** 1996; 10(1):21–7

Pedestrian pelvic fractures: 5-year experience of a major urban trauma center. Eastridge BJ, et al. **J Trauma** 1997 Apr;42(4):695–700

Experimentally induced upper facial third fractures in unembalmed human cadaver heads. Hudson JW, et al. **J Trauma** 1997 Apr;42(4):705–10

Dynamic fracture characteristics of the osteochondral junction undergoing shear deformation. Broom ND, et al. **Med Eng Phys** 1996 Jul;18(5):396–404

Calcium insufficiency and fracture risk. Dawson-Hughes B. **Osteoporos Int** 1996;6 Suppl 3:37–41 (26 ref.)

Osteogenesis imperfecta (OI), may be mistaken for child abuse [letter; comment] Kruse RW, et al. **Pediatr Emerg Care** 1997 Jun;13(3):244–5. Comment on: Pediatr Emerg Care 1996 Apr;12(2):116–21. Comment on: Pediatr Emerg Care 1996 Jun;12(3):217–21.

Acetabular fractures due to bone insufficiency. Two case-reports. Timsit MA, et al. **Rev Rhum Engl Ed** 1996 May;63(5):364–6

The incidence of osteoporotic fractures at the University Hospital of Tartu, Estonia. Haviko T, et al. **Scand J Rheumatol Suppl** 1996;103:13–5

Rate of characteristics for osteoporotic fractures in the elderly population of Kaunas region, Lithuania. Lashas L, et al. **Scand J Rheumatol Suppl** 1996;103:16–20; discussion 21–3

Assessment of fracture risk by bone density measurements. Jergas M, et al. **Semin Nucl Med** 1997 Jul;27(3):261–75 (69 ref.)

Pelvic fractures after long lumbosacral spine fusions. Wood KB, et al. **Spine** 1996 Jun 1;21(11):1357–62

Jeep door handle injury. Singla SL, et al. **Trop Doct** 1997 Jul;27(3):175

[Interposition of the extensor tendon in a subcapital metacarpal fracture] Blohm D, et al. **Ugeskr Laeger** 1996 Nov 18;158(47):6781 (Eng. Abstr.) **(Dan)**

[Bilateral acetabulum fractures of the anterior column and vertebral body fracture after alcohol-induced seizure] Rommens PM, et al. **Unfallchirurg** 1996 Sep;99(9):704–7 (Eng. Abstr.) **(Ger)**

[Fractures in osteoporosis as a social, economic and therapeutic problem] Dutka J, et al. **Przegl Lek** 1997; 54(3):194–200 (22 ref.) (Eng. Abstr.) **(Pol)**

HISTORY

Paleoepidemiology, healing, and possible treatment of trauma in the medieval cemetery population of St. Helen-on-the-Walls, York, England. Grauer AL, et al. **Am J Phys Anthropol** 1996 Aug;100(4):531–44

IMMUNOLOGY

The immune microenvironment of human fracture/soft-tissue hematomas and its relationship to systemic immunity. Hauser CJ, et al. **J Trauma** 1997 May; 42(5):895–903; discussion 903–4

METABOLISM

Radicals generated by bone cutting and fracture. Symons MC. **Free Radic Biol Med** 1996;20(6):831–5 (23 ref.)

MORTALITY

Pelvic fractures and mortality. Chong KH, et al. **Iowa Orthop J** 1997;17:110–4

Mortality rate of pelvic fracture patients. Wubben RC. **Wis Med J** 1996 Oct;95(10):702–4

NURSING

Perioperative nursing care of patients with craniofacial injuries. Hayes KM, et al. **AORN J** 1996 Sep;64(3):385–98; quiz 407–10, 413–4 (44 ref.)

PATHOLOGY

A multicenter study of the influence of fat and lean mass on bone mineral content: evidence for differences in their relative influence at major fracture sites. Early Postmenopausal Intervention Cohort (EPIC) Study Group. Hla MM, et al. **Am J Clin Nutr** 1996 Sep;64(3):354–60

Bilateral hypoglossal nerve injury with occipital condylar fracture. Lam CH, et al. **Can J Neurol Sci** 1996 May; 23(2):145–8

Reaction of the periosteum to subperiosteal implantation of a foreign body. Baltadjiev G. **Folia Med (Plovdiv)** 1996; 38(3–4):55–61

Ankle fractures involving the fibula proximal to the distal tibiofibular syndesmosis. Ebraheim NA, et al. **Foot Ankle Int** 1997 Aug;18(8):513–21 (58 ref.)

Calcaneocuboid joint involvement in calcaneal fractures. Ebraheim NA, et al. **Foot Ankle Int** 1996 Sep;17(9):563–5

Fractures at the base of the skull in gunshots to the head. Betz P, et al. **Forensic Sci Int** 1997 May 5;86(3):155–61

The fate of the syndesmosis in type C ankle fractures: a cadaveric study. Harris IA, et al. **Injury** 1997 May; 28(4):275–7

Nociceptive atrophy of the rat soleus muscle induced by bone fracture: a morphometric study. Zacharová G, et al. **J Appl Physiol** 1997 Feb;82(2):552–7

Fracture of the hyoid bone in strangulation: comparison of fractured and unfractured hyoids from victims of strangulation. Pollanen MS, et al. **J Forensic Sci** 1996 Jan; 41(1):110–3

Large volar plate avulsion fracture of the base of the middle phalanx with rotational displacement: a report of three cases. Takami H, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):592–5

Bony changes of the glenoid as a consequence of shoulder instability [published erratum appears in J Shoulder Elbow Surg 1997 Jan–Feb;6(1):80] Edelson JG. **J Shoulder Elbow Surg** 1996 Jul–Aug;5(4):293–8

PHYSIOPATHOLOGY

Isolated talus fractures: description of a new clinical sign. Mayer D. **Am J Emerg Med** 1997 Jul;15(4):412–4 (19 ref.)

Delayed union following stress fracture of the distal fibula secondary to rotational malunion of lateral malleolar fracture. Guille JT, et al. **Am J Orthop** 1997 Jun;26(6):442–5

Fracture healing: role of NSAIDs [letter; comment] Khan MI. **Am J Orthop** 1997 Jun;26(6):413. Comment on: Am

J Orthop 1997 Feb;26(2):161–4.
A retrospective study on elbow function after internal fixation of intercondylar fracture of adult humerus. Low CK, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):168–71
Patients who have had fractures of the distal forearm do not lose bone as expected [letter] Keen RW, et al. **BMJ** 1996 Sep 28;313(7060):821
A single bone density measurement can predict fractures over 25 years. Duppe H, et al. **Calcif Tissue Int** 1997 Feb; 60(2):171–4
Analgesia for emergency centers' orthopaedic patients: does an ethnic bias exist? Karpman RR, et al. **Clin Orthop** 1997 Jan;(334):270–5
Contact features of the talonavicular joint of the foot. Kitaoka HB, et al. **Clin Orthop** 1996 Apr;(325):290–5
Biomechanics of the hip joint and the effects of fracture of the acetabulum. Olson SA, et al. **Clin Orthop** 1997 Jun; (339):92–104 (26 ref.)
Calcaneal fractures cause a lateral load shift in Chopart joint contact stress and plantar pressure pattern in vitro. Rosenbaum D, et al. **J Biomech** 1996 Nov;29(11):1435–43
Fracture of articular cartilage. Chin–Purcell MV, et al. **J Biomech Eng** 1996 Nov;118(4):545–56
Functional outcome measures after displaced intra–articular calcaneal fractures. Hildebrand KA, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):119–23
Prediction of perimenopausal fractures by bone mineral density and other risk factors. Torgerson DJ, et al. **J Bone Miner Res** 1996 Feb;11(2):293–7
Navicular body fractures: computerized tomography findings and mechanism of injury. Rockett MS, et al. **J Foot Ankle Surg** 1997 May–Jun;36(3):185–91
The effect of variable size posterior wall acetabular fractures on contact characteristics of the hip joint. Olson SA, et al. **J Orthop Trauma** 1996;10(6):395–402
In–line skating fractures in children. Mitts KG, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):640–3
Biomechanics of pelvic fixation. Simonian PT, et al. **Orthop Clin North Am** 1997 Jul;28(3):351–67 (100 ref.)
Metacarpal fracture angulation decreases flexor mechanical efficiency in human hands. Birndorf MS, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1079–83; discussion 1084–5
[Pathophysiology of disrupted bone healing] Stürmer KM. **Orthopade** 1996 Sep;25(5):386–93 (20 ref.) (Eng. Abstr.) **(Ger)**
[Fracture healing. Morphologic and physiologic aspects] Braun W, et al. **Unfallchirurg** 1996 Jan;99(1):59–67 (18 ref.) **(Ger)**
[Effective treatment of a man with head injury and multiple rib fractures with epidural analgesia] Kariya N, et al. **Masui** 1996 Feb;45(2):223–6 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Osteoporosis: trials and tribulations. Seeman E. **Am J Med** 1997 Aug 18;103(2A):74S–87S; discussion 87S–89S (67 ref.)
Milk, dietary calcium, and bone fractures in women: a 12–year prospective study. Feskanich D, et al. **Am J Public Health** 1997 Jun;87(6):992–7
Biomechanical analysis of the effectiveness of in–line skating wrist guards for preventing wrist fractures. Giacobetti FB, et al. **Am J Sports Med** 1997 Mar–Apr;25(2):223–5
Do wrist guards protect against fractures? Lewis LM, et al. **Ann Emerg Med** 1997 Jun;29(6):766–9
The management of osteoporosis. Reid IR. **Baillieres Clin Endocrinol Metab** 1997 Apr;11(1):63–81 (94 ref.)
Clodronate decreases the frequency of skeletal metastases in women with breast cancer. Kanis JA, et al. **Bone** 1996 Dec; 19(6):663–7
Bone disease in asthma. Walsh LJ, et al. **Br J Hosp Med** 1997 Apr 16–May 6;57(8):390–3
Sodium fluoride treatment is a major protector against vertebral and nonvertebral fractures when compared with other common treatments of osteoporosis: a longitudinal, observational study. Farrerons J, et al. **Calcif Tissue Int** 1997 Mar;60(3):250–4
Prediction of bone loss rate in healthy postmenopausal women. Reginster JY, et al. **Calcif Tissue Int** 1997 Mar; 60(3):261–4
Osteoporosis [letter; comment] Marshall KG. **Can Med Assoc J** 1997 Jun 1;156(11):1530, 1532. Comment on: Can Med Assoc J 1996 Oct 1;155(7):929–34.
Fractures in children in south eastern Nigeria. Archibong AE, et al. **Cent Afr J Med** 1996 Dec;42(12):340–3
Osteoporosis: the need for comprehensive treatment guidelines. Abbott TA 3d, et al. **Clin Ther** 1996 Jan–Feb; 18(1):127–49; discussion 126 (106 ref.)
Effects of 2 years' treatment of osteoporosis with 1 alpha–hydroxy vitamin D3 on bone mineral density and incidence of fracture: a placebo–controlled, double–blind prospective study. Shikari M, et al. **Endocr J** 1996 Apr; 43(2):211–20
The bicycle spoke injury: an avoidable accident? D'Souza LG, et al. **Foot Ankle Int** 1996 Mar;17(3):170–3
The brittle bone: how to save women from osteoporosis. Rozenberg S, et al. **Int J Fertil Womens Med** 1997 Mar–Apr;42(2):101–6 (38 ref.)
External hip protectors [letter] Cameron I, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1158
Aspirin and NSAID use in older women: effect on bone mineral density and fracture risk. Study of Osteoporotic Fractures Research Group. Bauer DC, et al. **J Bone Miner Res** 1996 Jan;11(1):29–35
The Harstad injury prevention study: community based prevention of fall–fractures in the elderly evaluated by means of a hospital based injury recording system in Norway. Ytterstad B. **J Epidemiol Community Health** 1996 Oct;50(5):551–8
Calcium intake and the incidence of forearm and hip fractures among men. Owusu W, et al. **J Nutr** 1997 Sep;127(9):1782–7
Guidelines for osteoporosis trials. **J Rheumatol** 1997 Jun; 24(6):1234–6
Prevention of nonvertebral fractures by alendronate. A meta–analysis. Alendronate Osteoporosis Treatment Study Groups [see comments] Karpf DB, et al. **JAMA** 1997 Apr 9;277(14):1159–64. Comment in: JAMA 1997 Aug 27;278(8):631; discussion 631–2.
Meta–analysis of prevention of nonvertebral fractures by alendronate [letter; comment] Prostko M. **JAMA** 1997 Aug 27;278(8):631; discussion 631–2. Comment on: JAMA 1997 Apr 9;277(14):1159–64.
Meta–analysis of prevention of nonvertebral fractures by alendronate [letter; comment] Ross SD. **JAMA** 1997 Aug 27;278(8):631; discussion 631–2. Comment on: JAMA 1997 Apr 9;277(14):1159–64.
Randomised trial of effect of alendronate on risk of fracture in women with existing vertebral fractures. Fracture Intervention Trial Research Group [see comments] Black DM, et al. **Lancet** 1996 Dec 7;348(9041):1535–41. Comment in: Lancet 1997 Feb 15;349(9050):505–6. Comment in: ACP J Club 1997 May–Jun;126(3):73.
Randomised controlled trial of effect of high–impact exercise on selected risk factors for osteoporotic fractures [see comments] Heinonen A, et al. **Lancet** 1996 Nov 16; 348(9038):1343–7. Comment in: Lancet 1996 Nov 16;348(9038):1326–7.
The Fracture Intervention Trial [letter; comment] Phillips A. **Lancet** 1997 Feb 15;349(9050):505–6. Comment on: Lancet 1996 Dec 7;348(9041):1535–41.
Effect of calcium and vitamin D supplementation on bone density in men and women 65 years of age or older [see comments] Dawson–Hughes B, et al. **N Engl J Med** 1997 Sep 4;337(10):670–6. Comment in: N Engl J Med 1997 Sep 4;337(10):701–2.
Diet and the prevention of osteoporotic fractures [editorial; comment] Prince RL. **N Engl J Med** 1997 Sep 4; 337(10):701–2. Comment on: N Engl J Med 1997 Sep 4;337(10):670–6.
Prevention of falls in patients with osteoporosis. Grisso JA. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):75S–77S
Prevention of osteoporotic fractures: possibilities, the role of exercise, and limitations. Fries JF. **Scand J Rheumatol Suppl** 1996;103:6–10; discussion 11–2 (12 ref.)
Cost–effectiveness of fracture prevention in established osteoporosis. Jönsson B, et al. **Scand J Rheumatol Suppl** 1996;103:30–8; discussion 39–40
Clinical utility of bone mass measurements in adults: consensus of an international panel. The Society for Clinical Densitometry. Miller PD, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):361–72 (67 ref.)
[The effect of hormone replacement therapy on bone mineral content and on fractures] Eiken PA. **Ugeskr Laeger** 1997 Jan 27;159(5):570–6 (40 ref.) (Eng. Abstr.) **(Dan)**
[Prevention of fractures in the elderly (letter)] Ytterstad B. **Tidsskr Nor Laegeforen** 1997 May 10;117(12):1810 **(Nor)**

RADIOGRAPHY

Comparison of conventional and computed radiography: assessment of image quality and reader performance in skeletal extremity trauma. Lund PJ, et al. **Acad Radiol** 1997 Aug;4(8):570–6
The role of three–dimensional computed tomography in the management of maxillofacial bone fractures. Ohkawa M, et al. **Acta Med Okayama** 1997 Aug;51(4):219–25
Are routine radiographs during conservative treatment of fractures of the fourth and fifth metacarpals useful? Braakman M, et al. **Acta Orthop Belg** 1996 Sep;62(3):151–5
Total effective radiation dose from spiral CT and conventional radiography of the pelvis with regard to fracture classification. Jurik AG, et al. **Acta Radiol** 1996 Sep;37(5):651–4
Relevancy of radiographic features in elbow fractures. Zayer M, et al. **Acta Radiol** 1997 May;38(3):363–7
Follow–up skeletal surveys in suspected child abuse. Kleinman PK, et al. **AJR Am J Roentgenol** 1996 Oct; 167(4):893–6
Radiographs prior to reduction of elbow fractures in children [letter] Baird RJ. **Am Fam Physician** 1996 Nov 1; 54(6):1893–4
Interpreting elbow radiographs in children. Fick DS, et al. **Am Fam Physician** 1997 Mar;55(4):1278–82 (14 ref.)
Acute ankle injuries: clinical decision rules for radiographs. Tandeter HB, et al. **Am Fam Physician** 1997 Jun; 55(8):2721–8 (21 ref.)
Coronal fracture of the hamate body. Chase JM, et al. **Am J Orthop** 1997 Aug;26(8):568–71 (14 ref.)
Acetabular fractures [letter; comment] Limb D. **Br J Sports Med** 1996 Jun;30(2):185. Comment on: Br J Sports Med 1995 Sep;29(3):205–6.
Pediatric fracture without radiographic abnormality. Description and significance. Naranja RJ Jr, et al. **Clin Orthop** 1997 Sep;(342):141–6
Imaging of calcaneal fractures. Born CT, et al. **Clin Podiatr Med Surg** 1997 Apr;14(2):337–56 (33 ref.)
Rapid prototyping (stereolithography) in the management of intra–articular calcaneal fractures. Kacl GM, et al. **Eur Radiol** 1997;7(2):187–91
Fractures of the calcaneus [letter; comment] Allon SM. **Foot Ankle Int** 1996 Nov;17(11):720. Comment on: Foot Ankle Int 1996 Apr;17(4):230–5.
Observer reliability in ankle radiographic measurements. Brage ME, et al. **Foot Ankle Int** 1997 Jun;18(6):324–9
A pitfall of coronal computed tomographic imaging and evaluation of calcaneal fractures [letter] Burdeaux BD Jr. **Foot Ankle Int** 1997 Mar;18(3):189
Fracture of the medial tubercle of the posterior process of the talus: a case report and literature review. Kim DH, et al. **Foot Ankle Int** 1996 Mar;17(3):186–8 (2 ref.)
A pitfall of coronal computed tomographic imaging and evaluation of calcaneal fractures [letter; comment] Thordarson DB. **Foot Ankle Int** 1997 Mar;18(3):189. Comment on: Foot Ankle Int 1996 Aug;17(8):503–5.
Fracture of the coracoid process in an adolescent. Cottalorda J, et al. **Injury** 1996 Jul;27(6):436–7
Widening of the mediastinum following a sternal fracture. Saab M, et al. **Int J Clin Pract** 1997 Jun;51(4):256–7
The value of additional carpal box radiographs in suspected scaphoid fracture. Roolker L, et al. **Invest Radiol** 1997 Mar; 32(3):149–53
Perilunate fracture–dislocation: a continually missed injury. Sochart DH, et al. **J Accid Emerg Med** 1996 May; 13(3):213–6
Comparisons of noninvasive bone mineral measurements in assessing age–related loss, fracture discrimination, and diagnostic classification. Grampp S, et al. **J Bone Miner Res** 1997 May;12(5):697–711
Avulsion fracture of tendon of extensor carpi radialis longus: unknown mechanism. Jessa KK, et al. **J Emerg Med** 1997 Mar–Apr;15(2):201–7
Distal tibia and proximal fibula fracture in an elderly woman. Jones TL. **J Emerg Med** 1996 Jul–Aug;14(4):497
Performance of two clinical decision rules for knee radiography. Richman PB, et al. **J Emerg Med** 1997 Jul–Aug;15(4):459–63
Navicular body fractures: computerized tomography findings and mechanism of injury. Rockett MS, et al. **J Foot Ankle Surg** 1997 May–Jun;36(3):185–91
Concomitant fracture of the coracoid and acromion after direct shoulder trauma. Lim KE, et al. **J Orthop Trauma** 1996;10(6):437–9 (14 ref.)
Triradiate cartilage fracture associated with a transepiphyseal separation of the femoral head: a case report. Pina–Medina A, et al. **J Orthop Trauma** 1996;10(8):575–7
Interpretation of fracture follow–up roentgenograms: is a second opinion routinely necessary? de Araujo W, et al. **J South Orthop Assoc** 1996 Summer;5(2):83–6
Computed tomographic evaluation of calcaneal fractures. Haygood TM, et al. **J South Orthop Assoc** 1997 Spring; 6(1):62–8
Imaging of pelvic trauma: the role of CT with multiplanar and three–dimensional reconstruction. Noh HM, et al. **J South Orthop Assoc** 1996 Summer;5(2):111–25 (38 ref.)
Traumatic plastic bowing of bones [letter] Höcker K. **J Trauma** 1997 Jul;43(1):172–3
Floating metatarsal: concomitant Lisfranc fracture–dislocation and complex dislocation of the first metatarsophalangeal joint. Leibner ED, et al. **J Trauma** 1997 Mar;42(3):549–52
Occult scaphoid fracture: need to avoid complacency—case report and literature review. Ohiorenoya D, et al. **J Trauma** 1996 Dec;41(6):1054–5 (14 ref.)
Occult scaphoid fracture: need to avoid complacency [letter] Rayder SM. **J Trauma** 1997 Sep;43(3):560
Radiology Quiz #12. Lisfranc fracture–dislocation. Francis RA. **Mo Med** 1997 May;94(5):213–4
Evaluation of pelvic fractures. Clinical and radiologic. MacLeod M, et al. **Orthop Clin North Am** 1997 Jul; 28(3):299–319 (15 ref.)
The value of the inlet view of the pelvis in the evaluation of groin pain of unclear etiology. Carlson DA, et al. **Orthopedics** 1996 Feb;19(2):170–2
Clinical value of radiologists' interpretations of perioperative radiographs of orthopedic patients. Clark R, et al. **Orthopedics** 1996 Dec;19(12):1003–7
Medical cuneiform fracture–dislocation associated with medial and intermediate cuneiform fractures. Yutani Y, et al. **Osaka City Med J** 1996 Dec;42(2):135–7
Hip pain after twisting leg. Swischuk LE. **Pediatr Emerg Care** 1996 Dec;12(6):445–6
Improving detection of pediatric elbow fractures by understanding their mechanics. John SD, et al. **Radiographics** 1996 Nov;16(6):1443–60; quiz 1463–4
Imaging of acute injuries to the wrist and hand. Gilbert TJ, et al. **Radiol Clin North Am** 1997 May;35(3):701–25 (58 ref.)
Challenging fractures of the foot and ankle. Prokuski LJ, et al. **Radiol Clin North Am** 1997 May;35(3):655–70 (33 ref.)
Lumbosacral junction injury associated with unstable pelvic fracture: classification and diagnosis. Leone A, et al. **Radiology** 1997 Oct;205(1):253–9
Fractures of the hands and feet in child abuse: imaging and pathologic features. Nimkin K, et al. **Radiology** 1997 Apr;

203(1):233–6

Intraarticular loose body in pisotriquetral osteoarthritis simulating a fracture [letter] Dumontier C, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):302–3

Pubic osteolysis mimicking a malignant lesion: report a case with a fracture dislocation of the sacroiliac joint. Matsumoto K, et al. **Skeletal Radiol** 1997 Jul;26(7):438–42

Helical CT of talar fractures. Wechsler RJ, et al. **Skeletal Radiol** 1997 Mar;26(3):137–42 (13 ref.)

[The pelvic digital image data bank. Experiences after 18 months in clinical practice] Pohlemann T, et al. **Unfallchirurg** 1996 Aug;99(8):587–94 (Eng. Abstr.) **(Ger)**

[Apophyseolysis and avulsion fractures of the anterior inferior iliac spine. A case report] Bartl R, et al. **Unfallchirurgie** 1997 Apr;23(2):74–7 (Eng. Abstr.) **(Ger)**

[Rare case of isolated trapezius fracture] Seifert J, et al. **Unfallchirurgie** 1996 Aug;22(4):176–8 (Eng. Abstr.) **(Ger)**

[3–Dimensional computerized imaging in complex pelvic fractures] Salai M, et al. **Harefuah** 1996 Jun 2;130(11):734–7, 800 (Eng. Abstr.) **(Heb)**

RADIONUCLIDE IMAGING

Battered child syndrome. Uncommon pelvic fractures detected by bone scintigraphy. Tan TX, et al. **Clin Nucl Med** 1997 May;22(5):321–2

Bone densitometry: patients receiving prolonged steroid therapy. Erlichman M, et al. **Health Technol Assess** 1996 Sep;(9):i–vi, 1–31 (198 ref.)

Single photon emission computed tomography scanning in diagnosis of a rare pelvic avulsion fracture. Gittins ME, et al. **J Am Osteopath Assoc** 1996 Sep;96(9):544–6

What is your diagnosis? Avulsion fracture of the calcaneus at the attachment of the long lateral collateral ligament of the tarsus. Goodrich LR, et al. **J Am Vet Med Assoc** 1997 May 1;210(9):1277–8

Registration bone scan in the evaluation of wrist pain. Mohamed A, et al. **J Hand Surg [Br]** 1997 Apr;22(2):161–6

To report or not? [letter] Frier M, et al. **Nucl Med Commun** 1997 Jun;18(6):589

Occult trauma mimicking metastases on bone scans in pediatric oncology patients. Lowry PA, et al. **Pediatr Radiol** 1997 Feb;27(2):114–8

REHABILITATION

The effect of knee immobilization on degree of hip flexion: a clinical correlation with posterior wall acetabular fractures. Alexander RD, et al. **Am J Orthop** 1997 May; 26(5):345–7

"Bean bag" pelvic stabilization [letter] Falcone RE, et al. **Ann Emerg Med** 1996 Oct;28(4):458

Maintenance of aerobic capacity during recovery from right foot Jones fracture: a case report. Frangolias DD, et al. **Clin J Sport Med** 1997 Jan;7(1):54–7; discussion 57–8 (16 ref.)

Zone III fractures of the sacrum. A case report. Ebraheim NA, et al. **Spine** 1996 Oct 15;21(20):2390–6

[Rehabilitation following hip fractures] Maurer F, et al. **Orthopade** 1997 Apr;26(4):368–74 (Eng. Abstr.) **(Ger)**

[Vienna Shoulder Score (VSS) and Vienna Shoulder Formula (VSF) for follow–up and assessment of shoulder and shoulder girdle injuries] Gaebler C, et al. **Swiss Surg** 1997; 3(2):69–75 (Eng. Abstr.) **(Ger)**

[A quantitative evaluation of the action of EHF therapy in patients with leg fractures] Reznikov KM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):25–7 **(Rus)**

SURGERY

Evaluation of ketorolac in children with forearm fractures. Pierce MC, et al. **Acad Emerg Med** 1997 Jan;4(1):22–6

The treatment of Lisfranc injuries. Mulier T, et al. **Acta Orthop Belg** 1997 Jun;63(2):82–90

Iatrogenic posterior interosseous nerve palsy following an elbow fracture. Van Geertruyden JP, et al. **Acta Orthop Belg** 1996 Dec;62(4):222–4

Dens fractures in the elderly. Results of anterior screw fixation in 19 elderly patients. Berlemann U, et al. **Acta Orthop Scand** 1997 Aug;68(4):319–24

Bone–cement fixation for calcaneus fracture––a report on 2 elderly patients. Kiyoshige Y, et al. **Acta Orthop Scand** 1997 Aug;68(4):408–9

The role of the physician in geriatric medicine in the ageing society. In collaboration with orthopaedic surgeons. Reid J. **Age Ageing** 1994;23 Suppl 3:S31–3

Coronal fracture of the hamate body. Chase JM, et al. **Am J Orthop** 1997 Aug;26(8):568–71 (14 ref.)

Sliding osteotomy of the greater trochanter. Ebraheim NA, et al. **Am J Orthop** 1997 Mar;26(3):212–5

Direct complications of trochanteric osteotomy in open reduction and internal fixation of acetabular fractures. Heck BE, et al. **Am J Orthop** 1997 Feb;26(2):124–8

"Krammer splint technique" for immediate measuring of intramedullary nails. Mosheiff R, et al. **Am J Orthop** 1997 May;26(5):375

Fractures of the distal shaft of the fifth metatarsal. "Dancer's fracture". O'Malley MJ, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):240–3

Internal fixation of acute stable scaphoid fractures in the athlete. Rettig AC, et al. **Am J Sports Med** 1996 Mar–Apr; 24(2):182–6

A retrospective evaluation of operative treatment of ankle fractures. Low CK, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):172–4

Tarsometatarsal (Lisfranc's) injuries––results of open reduction and internal fixation. Tan YH, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):816–9

Biodegradable self–reinforced polyglycolide screws and rods in the fixation of displaced malleolar fractures in the elderly. A comparison with metallic implants. Kankare J, et al. **Ann Chir Gynaecol** 1996;85(3):263–70

Absorbable pins in the treatment of hand fractures. Pelto–Vasenius K, et al. **Ann Chir Gynaecol** 1996; 85(4):353–8

What you see is what you get: lack of significant postoperative contour change in muscle transplants to the lower leg. Isenberg JS. **Ann Plast Surg** 1997 Jan;38(1):46–9

Surgically treated acetabular fractures in adult patients. Nooraie H, et al. **Arch Orthop Trauma Surg** 1996; 115(3–4):227–30

Open reduction of chronic lunate and perilunate dislocations. Takami H, et al. **Arch Orthop Trauma Surg** 1996; 115(2):104–7

Absorbable polyglycolide devices in trauma and bone surgery. Ashammakhi N, et al. **Biomaterials** 1997 Jan; 18(1):3–9 (101 ref.)

Two compression rods to treat unstable lesions of the pelvic ring. Mainetti E, et al. **Chir Organi Mov** 1997 Jan–Mar; 82(1):41–7 **(Eng, Ita)**

The external fixator for the treatment of wrist fractures. Ponziani L, et al. **Chir Organi Mov** 1997 Jan–Mar; 82(1):33–40 **(Eng, Ita)**

Lunate and perilunate dislocation. Su CJ, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov; 58(5):348–54

Results of surgical treatment of tibial plafond fractures. Babis GC, et al. **Clin Orthop** 1997 Aug;(341):99–105

Surgical treatment of malleolar fractures. A review of 144 patients. Beris AE, et al. **Clin Orthop** 1997 Aug;(341):90–8

Ketorolac versus meperidine for pain relief after orthopaedic surgery. DeAndrade JR, et al. **Clin Orthop** 1996 Apr; (325):301–12

Anatomic considerations for a modified posterior approach to the scapula. Ebraheim NA, et al. **Clin Orthop** 1997 Jan; (334):136–43

Anatomic basis of lag screw placement in the anterior column of the acetabulum. Ebraheim NA, et al. **Clin Orthop** 1997 Jun;(339):200–5

Internal fixation of oblique metacarpal fractures. A biomechanical evaluation by impact loading. Firoozbakhsh KK, et al. **Clin Orthop** 1996 Apr;(325):296–301

Fractures of the hand. Corley FG Jr, et al. **Clin Plast Surg** 1996 Jul;23(3):447–62 (63 ref.)

Advances in reconstruction of digital joints. Schenck RR. **Clin Plast Surg** 1997 Jan;24(1):175–89 (33 ref.)

Subtalar arthrodesis using interposition iliac crest bone graft after calcaneal fracture. Amendola A, et al. **Foot Ankle Int** 1996 Oct;17(10):608–14

Anatomic structures at risk: combined subtalar and ankle arthrodesis with a retrograde intramedullary rod [letter; comment] Carr JB. **Foot Ankle Int** 1996 Mar;17(3):189–90 . Comment on: Foot Ankle Int 1995 Sep;16(9):542–7. Comment on: Foot Ankle Int 1995 Sep;16(9):572–6.

Talar neck fractures: anatomic considerations for posterior screw application. Ebraheim NA, et al. **Foot Ankle Int** 1996 Sep;17(9):541–7

Analysis of failed surgical management of fractures of the base of the fifth metatarsal distal to the tuberosity: the Jones fracture. Glasgow MT, et al. **Foot Ankle Int** 1996 Aug; 17(8):449–57

Polyglycolide bioabsorbable screws in the treatment of ankle fractures. Hovis WD, et al. **Foot Ankle Int** 1997 Mar; 18(3):128–31

Displaced intra–articular calcaneus fractures treated with the Galveston plate. Laughlin RT, et al. **Foot Ankle Int** 1996 Feb;17(2):71–8

Tarsal fracture dislocation with plantar dislocation of the navicular: a case study. Puente CA, et al. **Foot Ankle Int** 1996 Feb;17(2):111–3

Magnetic resonance imaging to detect avascular necrosis after open reduction and internal fixation of talar neck fractures. Thordarson DB, et al. **Foot Ankle Int** 1996 Dec; 17(12):742–7

The role of internal fixation in the treatment of Jones fractures in diabetics. Yue JJ, et al. **Foot Ankle Int** 1996 Sep;17(9):559–62

Plate osteosynthesis of diaphyseal fractures of the radius and ulna. Hertel R, et al. **Injury** 1996 Oct;27(8):545–8

Surgical management of fractures of the acetabulum: the Sheffield experience 1976–1994. Hull JB, et al. **Injury** 1997 Jan;28(1):35–40

Pre–operative analgesia after injury. Morgan–Jones R. **Injury** 1996 Oct;27(8):539–41

Preventing guide wire removal during intramedullary reaming. O'Connor D, et al. **Injury** 1997 Mar;28(2):160–1

An improved screw design for locked intramedullary nailing. Pennig D. **Injury** 1997 Mar;28(2):162–4

Complex fractures of the talus. Adelaar RS. **Instr Course Lect** 1997;46:323–38 (44 ref.)

Bioresorbable implants: applications in orthopaedic surgery. Blasier RD, et al. **Instr Course Lect** 1997;46:531–46 (64 ref.)

Fractures of the patella. Carpenter JE, et al. **Instr Course Lect** 1994;43:97–108 (37 ref.)

Orthopaedic challenges in the aging population: trauma treatment and related clinical issues. Koval KJ, et al. **Instr Course Lect** 1997;46:423–30 (39 ref.)

Salvage procedures for calcaneus fractures. Sangeorzan BJ. **Instr Course Lect** 1997;46:339–46 (13 ref.)

Vascular injuries associated with elbow fractures and dislocations. Moneim MS, et al. **Int Angiol** 1995 Sep; 14(3):307–12

Self–compressive osteotomy of the greater trochanter. Naito M, et al. **Int Orthop** 1997;21(2):119–21

Self locking tension band technique in transverse patellar fractures. Us AK, et al. **Int Orthop** 1996;20(6):357–8

Use of anchor sutures to repair labral avulsions of the hip: a brief report. Weigel DP, et al. **Iowa Orthop J** 1997; 17:141–3

Lisfranc fracture–dislocation in a windsurfer [letter] Roukis TS, et al. **J Am Podiatr Med Assoc** 1996 Nov;86(11):566–8

Treatment of acute fractures with a collagen–calcium phosphate graft material. A randomized clinical trial. Chapman MW, et al. **J Bone Joint Surg Am** 1997 Apr; 79(4):495–502

Stress fracture of the tibia after arthrodesis of the ankle or the hindfoot. Lidor C, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):558–64

Premature partial closure of the triradiate cartilage treated with excision of a physical osseous bar. Case report with a fourteen–year follow–up. Peterson HA, et al. **J Bone Joint Surg Am** 1997 May;79(5):767–70

Trans–scaphoid, transtriquetral, volar lunate fracture–dislocation of the wrist. Stevanovic M, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1907–10

A comparison of fixation screws for the scaphoid during application of cyclical bending loads. Toby EB, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1190–7

Non–union of the scaphoid. Treatment with cannulated screws compared with treatment with Herbert screws. Trumble TE, et al. **J Bone Joint Surg Am** 1996 Dec; 78(12):1829–37

Arthroscopy for problems after ankle fracture. van Duk CN, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):280–4

Surgical management of the acute calcaneal depression fracture, the VAMC Miami experience [letter] Cohen M. **J Foot Ankle Surg** 1996 May–Jun;35(3):269–70

The use of a calcaneal reconstruction plate in intra–articular calcaneal fractures. Frankel JP, et al. **J Foot Ankle Surg** 1996 Jul–Aug;35(4):318–30; discussion 370 (38 ref.)

Comparison of tension band wire and cancellous bone screw fixation for medial malleolar fractures. Johnson BA, et al. **J Foot Ankle Surg** 1997 Jul–Aug;36(4):284–9

Concomitant medial facet and dome fractures of the talus. Storm M, et al. **J Foot Ankle Surg** 1996 Jul–Aug; 35(4):331–4 (12 ref.)

The lateral epicondyle as a bone graft donor site in procedures about the elbow. Charles LM, et al. **J Hand Surg [Am]** 1997 May;22(3):547–9

A modification for the insertion of the Herbert screw in the fractured or nonunited scaphoid. Heaps RJ, et al. **J Hand Surg [Am]** 1996 Sep;21(5):922–4

Repeat screw stabilization with bone grafting after a failed Herbert screw fixation for acute scaphoid fractures and nonunions. Inoue G, et al. **J Hand Surg [Am]** 1997 May; 22(3):413–8

Nonunion rates of limited carpal arthrodesis: a meta–analysis of the literature. Larsen CF, et al. **J Hand Surg [Am]** 1997 Jan;22(1):66–73

Epiphyseal distraction [letter] Rao SB. **J Hand Surg [Am]** 1996 Jan;21(1):153–4

Perilunate dislocation and fracture dislocation: a critical analysis of the volar–dorsal approach. Sotereanos DG, et al. **J Hand Surg [Am]** 1997 Jan;22(1):49–56

Plating the palmar surface of the distal radius in shortening osteotomies for Kienböck's disease and Barton's fracture [letter; comment] Botelheiro JC, et al. **J Hand Surg [Br]** 1996 Dec;21(6):833. Comment on: J Hand Surg [Br] 1996 Jun;21(3):303–4.

Radial artery injury in association with fractures of the trapezium. Checroun AJ, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):419–22

Combined fracture of the hook of the hamate and palmar dislocation of the fifth carpometacarpal joint. Garcia–Elias M, et al. **J Hand Surg [Br]** 1996 Aug;21(4):446–50

A comparative mechanical analysis of plate fixation in a proximal phalangeal fracture model. Lins RE, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1059–64

Complete avulsion of the extensor apparatus of the little finger. Watanabe K, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):281–2

Refracture risk after plate removal in the forearm. Beaupre GS, et al. **J Orthop Trauma** 1996;10(2):87–92

Effect of impact load on articular cartilage: development of an intra–articular fracture model. Borrelli J Jr, et al. **J Orthop Trauma** 1997 Jul;11(5):319–26

Biomechanical evaluation of current patella fracture fixation techniques. Carpenter JE, et al. **J Orthop Trauma** 1997 Jul; 11(5):351–6

Biomechanical comparison of posterior internal fixation techniques for unstable pelvic fractures. Comstock CP, et al. **J Orthop Trauma** 1996;10(8):517–22

Femoral nerve palsy associated with an associated posterior wall transverse acetabular fracture. Hardy SL. **J Orthop Trauma** 1997 Jan;11(1):40–2 (6 ref.)

Intraoperative monitoring of motor pathways during operative fixation of acute acetabular fractures. Helfet DL, et al. **J Orthop Trauma** 1997 Jan;11(1):2–6

Articular fracture reconstruction [editorial] Kellam JF. **J Orthop Trauma** 1997 Jul;11(5):318

Local–advancement soft–tissue coverage in a child with ipsilateral grade IIIB open tibial and ankle fractures. Klein DM, et al. **J Orthop Trauma** 1996;10(8):577–80

The goal of acetabular fracture surgery [letter] Matta JM. **J Orthop Trauma** 1996;10(8):586

Incidence of sciatic nerve injury in operatively treated acetabular fractures without somatosensory evoked potential monitoring. Middlebrooks ES, et al. **J Orthop Trauma** 1997 Jul;11(5):327–9

Extended uses for the Herbert/Whipple screw: six case reports out of 35 illustrating technique. Reimer H, et al. **J Orthop Trauma** 1996;10(1):7–14

Prophylactic vena cava filter insertion in selected high–risk orthopaedic trauma patients. Rogers FB, et al. **J Orthop Trauma** 1997 May;11(4):267–72

Plantar ecchymosis sign: a clinical aid to diagnosis of occult Lisfranc tarsometatarsal injuries. Ross G, et al. **J Orthop Trauma** 1996;10(2):119–22

Early complications in the operative treatment of patella fractures. Smith ST, et al. **J Orthop Trauma** 1997 Apr; 11(3):183–7

Ipsilateral sternoclavicular joint dislocation and clavicle fracture. Tanlin Y. **J Orthop Trauma** 1996;10(7):506–7

Open reduction and internal fixation of the calcaneus using minifragment plates. Tornetta P 3d. **J Orthop Trauma** 1996; 10(1):63–7

The role of fibular fixation in combined fractures of the tibia and fibula: a biomechanical investigation. Weber TG, et al. **J Orthop Trauma** 1997 Apr;11(3):206–11

Pelvic and bladder trauma: a case report and subject review. Wright DG, et al. **J Orthop Trauma** 1996;10(5):351–4 (28 ref.)

Surgical treatment of displaced olecranon fractures in children. Gaddy BC, et al. **J Pediatr Orthop** 1997 May–Jun; 17(3):321–4

Modern trends for external fixation of fractures in children: a critical review. Hull JB, et al. **J Pediatr Orthop B** 1997 Apr;6(2):103–9 (24 ref.)

Type 2 fractures of the distal clavicle: a new surgical technique. Goldberg JA, et al. **J Shoulder Elbow Surg** 1997 Jul–Aug;6(4):380–2

Calcaneal fractures: operative versus nonoperative treatment [letter; comment] Agnew SG. **J Trauma** 1997 Mar;42(3):571 . Comment on: J Trauma 1996 Nov;41(5):839–45.

Early fracture fixation may be deleterious after head injury [see comments] Jaicks RR, et al. **J Trauma** 1997 Jan; 42(1):1–5; discussion 5–6. Comment in: J Trauma 1997 May;42(5):981; discussion 983. Comment in: J Trauma 1997 May;42(5):981–2; discussion 983. Comment in: J Trauma 1997 May;42(5):982–3.

Posterior approach for glenoid fracture. Kligman M, et al. **J Trauma** 1997 Apr;42(4):733–5

Calcaneal fractures: operative versus nonoperative treatment [see comments] Kundel K, et al. **J Trauma** 1996 Nov; 41(5):839–45. Comment in: J Trauma 1997 Mar;42(3):571.

Mechanical property analysis of small bone fixators. Chou PH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jan;12(1):43–49

The mechanical properties of catgut in holding and bonding fractured bones. Othman MO, et al. **Med Eng Phys** 1996 Oct;18(7):584–90

Surgical approaches to the acetabulum. Jimenez ML, et al. **Orthop Clin North Am** 1997 Jul;28(3):419–34 (8 ref.)

Total hip replacement after acetabular fracture. Jimenez ML, et al. **Orthop Clin North Am** 1997 Jul;28(3):435–46 (26 ref.)

Management of pelvic fractures with concomitant urologic injuries. Taffet R. **Orthop Clin North Am** 1997 Jul; 28(3):389–96 (47 ref.)

External fixation for pelvic ring disruptions. Yang AP, et al. **Orthop Clin North Am** 1997 Jul;28(3):331–44 (11 ref.)

Avulsion of the anterior inferior iliac spine. Saluan PM, et al. **Orthopedics** 1997 Jun;20(6):558–9

A proximal interphalangeal joint fracture–dislocation treated by limited open (percutaneous) reduction and dynamic external fixation [letter] Skoff HD. **Plast Reconstr Surg** 1997 Feb;99(2):587–9 (23 ref.)

Damage control for devastating pelvic and extremity injuries. Henry SM, et al. **Surg Clin North Am** 1997 Aug; 77(4):879–95 (47 ref.)

Management of unstable ankle fractures with Kirschner wires. Oosterhuis JW, et al. **Trop Doct** 1997 Oct;27(4):230–1

[Adjustable reconditioner for the treatment of patella fracture] Yang A. **Chung Hua Wai Ko Tsa Chih** 1995 Oct; 33(10):589–90 (Eng. Abstr.) **(Chi)**

[Personal experience with elastic stable intramedullary osteosynthesis in children] Bartl V, et al. **Rozhl Chir** 1996 Oct;75(10):486–8 (Eng. Abstr.) **(Cze)**

[Surgical treatment of (selected) calcaneal fractures] Palarčík J, et al. **Rozhl Chir** 1997 May;76(5):231–8 (Eng. Abstr.) **(Cze)**

[Fractures of the wrist with cartilage rupture in young adults. Apropos of 18 cases] Cottias P, et al. **Ann Chir Main Memb Super** 1997;16(1):39–48 (Eng. Abstr.) **(Fre)**

[The "low contact plate" for stabilizing the dislocated intra–articular calcaneus fractures] Bauer G, et al. **Chirurg** 1996 Nov;67(11):1129–34 (Eng. Abstr.) **(Ger)**

[AO external mini–fixateur for the hand bones. Surgical technique and initial experiences] Fricker R, et al. **Chirurg** 1996 Jul;67(7):760–3 (Eng. Abstr.) **(Ger)**

[Pseudarthrosis of the capitate bone. Report of 2 cases] D'Hondt B, et al. **Handchir Mikrochir Plast Chir** 1997 Jan; 29(1):27–31 (Eng. Abstr.) **(Ger)**

[Acetabular fractures in elderly persons. Primary endoprosthetic treatment] Hoellen IP, et al. **Orthopade** 1997 Apr;26(4):348–53 (Eng. Abstr.) **(Ger)**

[New developments in stabilization of dia– and metaphyseal fractures of long tubular bones] Krettek C, et al. **Orthopade** 1997 May;26(5):408–21 (80 ref.) (Eng. Abstr.) **(Ger)**

[Indication, technique and complications in the surgical treatment of acetabular fractures] Kuner EH. **Orthopade** 1997 Apr;26(4):327–35 (Eng. Abstr.) **(Ger)**

[New developments in joint surgery] Lobenhoffer P, et al. **Orthopade** 1997 May;26(5):422–36 (76 ref.) (Eng. Abstr.) **(Ger)**

[Percutaneous iliosacral screw fixation of vertical unstable pelvic ring fractures] Remiger A, et al. **Swiss Surg** 1996; 2(6):259–63 (Eng. Abstr.) **(Ger)**

[The use of the veterinary cuttable plate in 160 cases] Brüse S, et al. **Tierarztl Prax** 1996 Dec;24(6):581–9 (Eng. Abstr.) **(Ger)**

[Injuries of the pelvic ring] Culemann U, et al. **Unfallchirurg** 1997 Jun;100(6):487–96 (14 ref.) **(Ger)**

[Perilunate dislocation and dislocation fractures—results of surgical management] Gabl M, et al. **Unfallchirurg** 1996 Sep;99(9):650–5 (Eng. Abstr.) **(Ger)**

[Severe pelvic injury with pelvic mass hemorrhage: determining severity of hemorrhage and clinical experience with emergency stabilization] Pohlemann T, et al. **Unfallchirurg** 1996 Oct;99(10):734–43 (Eng. Abstr.) **(Ger)**

[Fracture management in polytrauma. Timing and tactics] Regel G, et al. **Unfallchirurg** 1997 Mar;100(3):234–48 (21 ref.) **(Ger)**

[Traumatic axial dislocation injury of the carpus and metacarpus with triquetrum fracture. Rare entity or typical injury] Richter D, et al. **Unfallchirurg** 1997 Jun; 100(6):502–5 (Eng. Abstr.) **(Ger)**

[Preparation and technique for surgical treatment of 225 acetabulum fractures. 2 year results of 175 cases] Rommens PM, et al. **Unfallchirurg** 1997 May;100(5):338–48 (Eng. Abstr.) **(Ger)**

[HIV infection caused by cold preserved bone transplants] Schratt HE, et al. **Unfallchirurg** 1996 Sep;99(9):679–84 (Eng. Abstr.) **(Ger)**

[Lumbar dislocation fracture with paraplegia after pelvic seat belt injury. Case report] Spetzger U, et al. **Unfallchirurg** 1996 Nov;99(11):905–8 (Eng. Abstr.) **(Ger)**

[Elbow injuries in childhood] Weise K, et al. **Unfallchirurg** 1997 Apr;100(4):255–69 (22 ref.) (Eng. Abstr.) **(Ger)**

[Fractures of the calcaneus—new trends in management] Rath E, et al. **Harefuah** 1997 Mar 16;132(6):424–7 (16 ref.) **(Heb)**

[An autopsy case of pulmonary thromboembolism: a delayed complication of a victim by traffic accident] Yamazaki M, et al. **Nippon Hoigaku Zasshi** 1997 Feb;51(1):48–55 (Eng. Abstr.) **(Jpn)**

[Traumatic transection of the left main bronchus and laryngeal fracture resulting from blunt trauma—a successful case of emergency operation] Ogawa J, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):498–501 (Eng. Abstr.) **(Jpn)**

[Management of fractures in multiple injuries and multiple locations (instead of the discussion at the XXXI Congress PTOiTr) (letter)] Bielawski J. **Chir Narzadow Ruchu Ortop Pol** 1997;62(1):79–84 **(Pol)**

[Surgical treatment for complicated clavicle fracture] Król R. **Chir Narzadow Ruchu Ortop Pol** 1997;62(1):15–9 (Eng. Abstr.) **(Pol)**

[A fixator–pin–wire–plaster technique in war conditions] Hadžiahmetović Z. **Med Arh** 1995;49(1–2):23–5 (Eng. Abstr.) **(Scr)**

[Bases and results of revascularization of the talus in fracture–dislocation] Radomskiĭ OA. **Klin Khir** 1996; (6):19–22 **(Ukr)**

THERAPY

Blunt abdominal trauma and severe pelvic rupture. What to do? Hötker U, et al. **Acta Chir Belg** 1997 Apr;97(2):65–8 (16 ref.)

Management of fractures and dislocations of the elbow in children. Ring D, et al. **Acta Orthop Belg** 1996;62 Suppl 1:58–65 (31 ref.)

Management of clavicle fractures. Eiff MP. **Am Fam Physician** 1997 Jan;55(1):121–8 (08 ref.)

Age as a risk factor for inadequate emergency department analgesia. Jones JS, et al. **Am J Emerg Med** 1996 Mar; 14(2):157–60

Nonoperative treatment of widely displaced patella fractures. Pritchett JW. **Am J Knee Surg** 1997 Summer;10(3):145–7; discussion 147–8

Sternal fracture: a benign entity? Gouldman JW, et al. **Am Surg** 1997 Jan;63(1):17–9

Management of concomitant maxillofacial, cervical spine and laryngeal trauma—case reports. Lim TC, et al. **Ann Acad Med Singapore** 1997 Jan;26(1):108–12

Fracture management in general practice. Wood T. **Aust Fam Physician** 1996 Sep;25(9):1385–90

An alternative method of treatment for metacarpal fractures in athletes. Toronto R, et al. **Clin J Sport Med** 1996 Jan; 6(1):4–8

Extracorporeal life support for patients with significant orthopaedic trauma. Senunas LE, et al. **Clin Orthop** 1997 Jun;(339):32–40

Evaluation of hip stability after simulated transverse acetabular fractures. Thomas KA, et al. **Clin Orthop** 1997 Jul;(340):244–56

Fractures and dislocations of the digits. Daly N. **Clin Podiatr Med Surg** 1996 Apr;13(2):309–26 (29 ref.)

Stable lateral malleolar fractures treated with aircast ankle brace and DonJoy R.O.M.–Walker brace: a prospective randomized study. Brink O, et al. **Foot Ankle Int** 1996 Nov; 17(11):679–84

Fracture of the medial tubercle of the posterior process of the talus: a case report and literature review. Kim DH, et al. **Foot Ankle Int** 1996 Mar;17(3):186–8 (2 ref.)

Fractures of the calcaneus. Part II: Treatment. Lowery RB, et al. **Foot Ankle Int** 1996 Jun;17(6):360–6 (44 ref.)

Operative vs. nonoperative treatment of intra–articular fractures of the calcaneus: a prospective randomized trial [letter] Stephens MM. **Foot Ankle Int** 1996 Oct;17(10):653

Treatment of fractures of the fifth metatarsal: a prospective study. Wiener BD, et al. **Foot Ankle Int** 1997 May; 18(5):267–9

Growth factor treatment of fractures. Einhorn TA, et al. **Instr Course Lect** 1997;46:483–6 (34 ref.)

The management of fractures with soft–tissue disruptions. Sanders R, et al. **Instr Course Lect** 1994;43:559–70 (87 ref.)

Fractures of the ankle and the distal part of the tibia. Vander Griend R, et al. **Instr Course Lect** 1997;46:311–21 (66 ref.)

Pulmonary effects of fixation of a fracture with a plate compared with intramedullary nailing. A canine model of fat embolism and fracture fixation. Schemitsch EH, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):984–96

Cyclical micromovement and fracture healing [letter; comment] Goodship AE. **J Bone Joint Surg Br** 1996 Jan; 78(1):166–7. Comment on: J Bone Joint Surg Br 1995 Jul;77(4):645–8.

Closed treatment of displaced middle–third fractures of the clavicle gives poor results. Hill JM, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):537–9

Herbert screw fixation by limited access for acute fractures of the scaphoid. Inoue G, et al. **J Bone Joint Surg Br** 1997 May;79(3):418–21

Bilateral os peroneum fractures: comparison of conservative and surgical treatment and outcomes. MacDonald BD, et al. **J Foot Ankle Surg** 1997 May–Jun;36(3):220–5

The management of carpal fractures and dislocations. Prosser R, et al. **J Hand Ther** 1996 Apr–Jun;9(2):139–47 (30 ref.)

Pubic rami fracture: a benign pelvic injury? Koval KJ, et al. **J Orthop Trauma** 1997 Jan;11(1):7–9

Long–term outcome of sacroiliac disruptions in children. Heeg M, et al. **J Pediatr Orthop** 1997 May–Jun; 17(3):337–41

Fractures of the olecranon. Baratz ME, et al. **J South Orthop Assoc** 1995 Winter;4(4):283–9 (23 ref.)

Presidential address. Changes in the care of children's fractures. Green NE. **J South Orthop Assoc** 1997 Spring; 6(1):48–53

Reduction of angulated metacarpal fractures with a custom fracture–brace. Jones AR. **J South Orthop Assoc** 1995 Winter;4(4):269–76

Long–term outcomes in open pelvic fractures. Brenneman FD, et al. **J Trauma** 1997 May;42(5):773–7

Calcaneal fractures: operative versus nonoperative treatment [see comments] Kundel K, et al. **J Trauma** 1996 Nov; 41(5):839–45. Comment in: J Trauma 1997 Mar;42(3):571.

Stabilization of pelvic ring disruptions. Routt ML Jr, et al. **Orthop Clin North Am** 1997 Jul;28(3):369–88 (43 ref.)

Fractures following total knee arthroplasty. Dorr LD. **Orthopedics** 1997 Sep;20(9):848–50

Intravenous regional anesthesia for management of children's extremity fractures in the emergency department. Blasier RD, et al. **Pediatr Emerg Care** 1996 Dec;12(6):404–6

[Conservative or surgical treatment of ankle fractures? (comment)] Klasen HJ. **Ned Tijdschr Geneeskd** 1996 Nov 23;140(47):2320–1. Comment on: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2337–41. Comment on: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2342–9. **(Dut)**

[Differentiated protocol for the conservative/surgical treatment of ankle fractures in adults (see comments)] Van Laarhoven CJ, et al. **Ned Tijdschr Geneeskd** 1996 Nov 23; 140(47):2342–9 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2320–1. **(Dut)**

[Differentiated protocol for the conservative/surgical treatment of ankle fractures in children (see comments)] Van Laarhoven CJ, et al. **Ned Tijdschr Geneeskd** 1996 Nov 23;140(47):2337–41 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2320–1. **(Dut)**

[An experimental study of a cyanoacrylate biological adhesive in view of its use in the fixation of various fractures of the fingers] Caroli A, et al. **Ann Chir Main Memb Super** 1997;16(2):138–45 (Eng. Abstr.) **(Fre)**

[A small distal osseous avulsion of the fibrocartilago palmaris of the middle finger interphalangeal joints. Results of conservative therapy] Haferkamp H. **Handchir Mikrochir Plast Chir** 1997 Jul;29(4):187–91 (Eng. Abstr.) **(Ger)**

[Results of conservative treatment of bony palmar plate

avulsion of the middle joint (type I and type II according to Hintringer and Leixnering)] Janousek A, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):242–5 (Eng. Abstr.) **(Ger)**

[Diaphyseal pseudarthroses. Epidemiology and outcome] Kasperczyk WJ, et al. **Orthopade** 1996 Sep;25(5):416–28 (Eng. Abstr.) **(Ger)**

[Management of pelvic pseudarthroses and pelvic malunion] Mears DC. **Orthopade** 1996 Sep;25(5):441–8 (Eng. Abstr.) **(Ger)**

[Early functional treatment of a 5th metatarsal fracture using an orthopedic boot] Gösele A, et al. **Swiss Surg** 1997; 3(2):81–4 (Eng. Abstr.) **(Ger)**

[Injuries to the growth plates] Jungbluth KH, et al. **Unfallchirurg** 1997 Jul;100(7):571–86 (30 ref.) **(Ger)**

[Glenoid fossa fracture] Kligman M, et al. **Harefuah** 1997 Apr 15;132(8):546–9, 607 (Eng. Abstr.) **(Heb)**

[Treatment of intraarticular finger fractures with the help of the traction system of "pins and rubbers" according to Y. Suzuki] Jablecki J, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):109–13 (Eng. Abstr.) **(Pol)**

ULTRASONOGRAPHY

Broadband ultrasound attenuation imaging: a new imaging method in osteoporosis. Roux C, et al. **J Bone Miner Res** 1996 Aug;11(8):1112–8

The effect of fracture and fracture fixation on ultrasonic velocity and attenuation. Saulgozis J, et al. **Physiol Meas** 1996 Aug;17(3):201–11

[Ultrasound fracture diagnosis—an experimental study] Grechenig W, et al. **Biomed Tech (Berl)** 1997 May; 42(5):138–45 (Eng. Abstr.) **(Ger)**

[Self-sonographic follow-up of bone refraction at a fracture site of the distal phalanx of the thumb] Barzilai M. **Harefuah** 1996 May 1;130(9):647–8 **(Heb)**

VETERINARY

High-speed exercise history and catastrophic racing fracture in thoroughbreds. Estberg L, et al. **Am J Vet Res** 1996 Nov;57(11):1549–55

Horseshoe characteristics as possible risk factors for fatal musculoskeletal injury of thoroughbred racehorses. Kane AJ, et al. **Am J Vet Res** 1996 Aug;57(8):1147–52

In vitro evaluation of four methods of attaching transfixation pins into a fiberglass cast for use in horses. McClure SR, et al. **Am J Vet Res** 1996 Jul;57(7):1098–101

High stability of the Ilizarov ringfixator in a metacarpal fracture of an Arabian foal. Jukema GN, et al. **Arch Orthop Trauma Surg** 1997;116(5):287–9

Management of a transverse fracture in the distal phalanx of a horse. Klohnen A, et al. **Can Vet J** 1997 Sep; 38(9):561–3

Fracture of the 7th cervical and 1st thoracic vertebrae presenting as radial nerve paralysis in a horse. Lopez MJ, et al. **Can Vet J** 1997 Feb;38(2):112

Lag screw fixation of an extensor process fracture in a foal with flexural deformity. MacLellan KN, et al. **Can Vet J** 1997 Apr;38(4):226–8

Incidence, location and classification of 371 third carpal bone fractures in 313 horses. Schneider RK, et al. **Equine Vet J Suppl** 1988 Sep;(6):33–42

Semirigid external fixation for repair of fractures in young animals. Shamir MH, et al. **J Am Anim Hosp Assoc** 1996 Nov-Dec;32(6):521–6

Treatment of a comminuted frontal-plane fracture of the distal phalanx in a horse. Anderson BH, et al. **J Am Vet Med Assoc** 1996 Nov 15;209(10):1750–2

What is your diagnosis? Fracture of the distal third of the patella in a horse. Anderson BH, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1847–8

More background needed on "idle time" of race horses [letter; comment] MacNamara B. **J Am Vet Med Assoc** 1997 Mar 1;210(5):608–9. Comment on: J Am Vet Med Assoc 1997 Jan 1;210(1):82–6.

What is your diagnosis? Oblique fracture of the right hind distal phalanx in a horse. Sedrish SA, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):729–30

What is your diagnosis? Carpal bone fractures in a racing horse. Sedrish SA, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1237–8

Comparison of racing performance before and after treatment of incomplete, midsagittal fractures of the proximal phalanx in standardbreds: 49 cases (1986–1992) [see comments] Tetens J, et al. **J Am Vet Med Assoc** 1997 Jan 1;210(1):82–6 . Comment in: J Am Vet Med Assoc 1997 Mar 1;210(5):608–9.

Methylmethacrylate and bone screw repair of seventh lumbar vertebral fracture-luxations in dogs. Beaver DP, et al. **J Small Anim Pract** 1996 Aug;37(8):381–6

Tibiotarsal fracture repair in a scarlet macaw using external skeletal fixation. Kavanagh M. **J Small Anim Pract** 1997 Jul;38(7):296–8

Heavy metal concentrations in injured racehorses. Plumlee KH, et al. **Vet Hum Toxicol** 1996 Jun;38(3):204–6

Comparison and assessment of casting materials for use in small animals. Langley-Hobbs SJ, et al. **Vet Rec** 1996 Sep 14;139(11):258–62

An in vitro biomechanical study of a multiplanar circular external fixator applied to equine third metacarpal bones. Cervantes C, et al. **Vet Surg** 1996 Jan-Feb;25(1):1–5

In vitro biomechanical and histological assessment of pilot hole diameter for positive-profile external skeletal fixation pins in canine tibiae. Clary EM, et al. **Vet Surg** 1996 Nov-Dec;25(6):453–62

Deep-frozen allogeneic cancellous bone grafts in 10 dogs: a case series. Kerwin SC, et al. **Vet Surg** 1996 Jan-Feb; 25(1):18–28

[Diagnosis and medical care of raptors in a compilation of cases from 1985–1994] Hatt JM, et al. **Schweiz Arch Tierheilkd** 1996;138(9):434–40 (Eng. Abstr.) **(Ger)**

FRACTURES, BLOW-OUT see **ORBITAL FRACTURES**

FRACTURES, CLOSED

Patella fractures. Evaluation and treatment. Koval KJ, et al. **Am J Knee Surg** 1997 Spring;10(2):101–8

Quality of life after pelvic ring injuries: follow-up results of a prospective study. Draijer F, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):22–6

Fractures of the pelvis in children. Rieger H, et al. **Clin Orthop** 1997 Mar;(336):226–39

Bilateral anterior inferior iliac spine avulsion fractures. Gomez JE. **Med Sci Sports Exerc** 1996 Feb;28(2):161–4

Late presentation of a Monteggia fracture. Kay RM, et al. **Orthopedics** 1996 Oct;19(10):895–7

COMPLICATIONS

Acute hematogenous osteomyelitis of a closed fracture with chronic superinfection. Aluisio FV, et al. **Clin Orthop** 1996 Apr;(325):239–44

Posterior dislocation of the shoulder with ipsilateral humeral shaft fracture: a very rare injury. Naresh S, et al. **Injury** 1997 Mar;28(2):150–2

Injury to the brachial plexus by a fragment of bone after fracture of the clavicle. Barbier O, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):534–6

Flexor digitorum profundus rupture of the small finger secondary to nonunion of the hook of hamate: a case report. Hartford JM, et al. **J Hand Surg [Am]** 1996 Jul;21(4):621–3 (7 ref.)

Ulnar nerve laceration in a closed both bone forearm fracture. Torpey BM, et al. **J Orthop Trauma** 1996;10(2):131–4 (12 ref.)

[Fracture dislocation of the ankle with retro-tibial luxation of the fibula (Bosworth fracture) . Apropos of a case] Pidet O, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995; 81(7):631–4 (11 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

External rotation views in the diagnosis of posterior colliculus fracture of the medial malleolus. Ebraheim NA, et al. **Am J Orthop** 1996 May;25(5):380–2

Fracture-dislocation of the ankle with posterior tibial tendon entrapment within the tibiofibular interosseous space: a case report of a late diagnosis. Anderson JG, et al. **Foot Ankle Int** 1996 Feb;17(2):114–8

Imaging scaphoid fractures and nonunions: familiar methods and newer trends. Peterson DA, et al. **Iowa Orthop J** 1996; 16:97–103 (22 ref.)

The relevance of hearing a crack in ankle injuries. Reid PM, et al. **J Accid Emerg Med** 1996 Jul;13(4):278–9

Initial assessment and management of common fractures. Martin RE. **Prim Care** 1996 Jun;23(2):405–9

DRUG THERAPY

[Experimental study of the effect of physiologically active combinations on the stimulation of reparative osteogenesis] Mansurova LA, et al. **Dokl Akad Nauk** 1996 Nov; 351(3):416–8 **(Rus)**

EPIDEMIOLOGY

Innominosacral dissociation: mechanism of injury as a predictor of resuscitation requirements, morbidity, and mortality. Whitbeck MG Jr, et al. **J Orthop Trauma** 1997 Feb-Mar;11(2):82–8

ETIOLOGY

Bilateral 'Jones' fractures of the fifth metatarsal following relapse of talipes equinovarus. Craigen MA, et al. **Injury** 1996 Oct;27(8):599–601

[A propos of an unusual case of lumbar-pelvic dislocation in a suicidal jumper] Massin P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(3):270–3 (Eng. Abstr.) **(Fre)**

[The nature and mechanogenesis of pelvic bone fractures in children from exposure to the impact from blunt solid objects in the pubic symphysis area at different angles to the plane of the pelvic girdle] Kil'diushov EM. **Sud Med Ekspert** 1996 Jul-Sep;39(3):16–9 (Eng. Abstr.) **(Rus)**

PATHOLOGY

The bigger they come ...: the relationship between body mass index and severity of ankle fractures. Spaine LA, et al. **Injury** 1996 Dec;27(10):687–9

Specific features associated with femoral shaft fractures caused by low-energy trauma. Salminen S, et al. **J Trauma** 1997 Jul;43(1):117–22

Depressed osteoblast activity and increased osteocyte necrosis after closed bone fracture and hemorrhagic shock. Wichmann MW, et al. **J Trauma** 1996 Oct;41(4):628–33

PHYSIOPATHOLOGY

Depressed osteoblast activity and increased osteocyte necrosis after closed bone fracture and hemorrhagic shock. Wichmann MW, et al. **J Trauma** 1996 Oct;41(4):628–33

RADIOGRAPHY

Split fracture of the proximal phalanx of thumb—an unusual cricket injury. Constantinides H, et al. **Injury** 1996 Oct; 27(8):591–2

A closed pelvic fracture from wheels-in-line skating. Mora M. **J Emerg Med** 1996 Nov-Dec;14(6):711–3

SURGERY

External rotation views in the diagnosis of posterior colliculus fracture of the medial malleolus. Ebraheim NA, et al. **Am J Orthop** 1996 May;25(5):380–2

Endoscopic-assisted repair of a malar fracture. Lee CH, et al. **Ann Plast Surg** 1996 Aug;37(2):178–83

Fractures of posterior wall of acetabulum. Chiu FY, et al. **Arch Orthop Trauma Surg** 1996;115(5):273–5

Undisplaced femoral neck fracture in the elderly. Chiu FY, et al. **Arch Orthop Trauma Surg** 1996;115(2):90–3

Massive fat emboli syndrome after unsuccessful unreamed nailing of the tibia. Rommens PM, et al. **Arch Orthop Trauma Surg** 1997;116(3):184–6

Ender nail in unstable closed tibial fractures. Huang YL, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Aug; 58(2):84–8

Heterotopic ossification: a comparison between reamed and unreamed femoral nailing. Furlong AJ, et al. **Injury** 1997 Jan;28(1):9–14

Reamed against unreamed nailing of the femoral diaphysis: a retrospective study of healing time. Giannoudis PV, et al. **Injury** 1997 Jan;28(1):15–8

Unreamed nailing of tibial fractures—a prospective study of the routine use of the unreamed tibial nail. Harrington P, et al. **Ir J Med Sci** 1996 Oct-Dec;165(4):282–5

Interlocking intramedullary nailing with and without reaming for the treatment of closed fractures of the tibial shaft. A prospective, randomized study. Blachut PA, et al. **J Bone Joint Surg Am** 1997 May;79(5):640–6

Atrophic nonunion of the clavicle: treatment by compression plate, lag-screw fixation and bone graft. Boyer MI, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):301–3

Reamed or unreamed nailing for closed tibial fractures [letter; comment] Harrington P, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):697–8. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):580–3.

Reamed or unreamed nailing for closed tibial fractures [letter; comment] Smith RM, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):170; discussion 170–1. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):580–3.

Reamed or unreamed nailing for closed tibial fractures [letter; comment] Tennent TD, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):170; discussion 170–1. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):580–3.

Retrospective analysis of operative ankle fractures. Calderone DR, et al. **J Foot Ankle Surg** 1996 May-Jun;35(3):230–6

Extensor carpi radialis brevis avulsion fracture of the long finger metacarpal: a case report. Cobbs KF, et al. **J Hand Surg [Am]** 1996 Jul;21(4):684–6

Treatment of unstable distal radius fractures: methods and comparison of external distraction and ORIF versus external distraction-ORIF neutralization. Putnam MD, et al. **J Hand Surg [Am]** 1997 Mar;22(2):238–51

Intraarticular calcaneus fractures: a biomechanical comparison or two fixation methods. Bailey EJ, et al. **J Orthop Trauma** 1997 Jan;11(1):34–7

Functional outcome analysis of operatively treated malleolar fractures. Belcher GL, et al. **J Orthop Trauma** 1997 Feb-Mar;11(2):106–9

Parturition-induced pelvic dislocation: a report of four cases. Kharrazi FD, et al. **J Orthop Trauma** 1997 May; 11(4):277–81; discussion 281–2

Internal fixation in postpartum symphysis pubis rupture: report of three cases. Rommens PM. **J Orthop Trauma** 1997 May;11(4):273–6

Displacement of the posterior malleolus during intramedullary tibial nailing. Georgiadis GM, et al. **J Trauma** 1996 Dec;41(6):1056–8

Retrograde nailing of supracondylar femoral fractures in patients with total hip arthroplasty: a preliminary report. Menth-Chiari WA, et al. **J Trauma** 1996 Dec;41(6):1059–63

Open reduction and internal fixation of combined fourth and fifth carpometacarpal (fracture) dislocations. Schortinghuis J, et al. **J Trauma** 1997 Jun;42(6):1052–5

Bilateral hook of the hamate fractures. McCue FC 3rd, et al. **Orthopedics** 1997 May;20(5):470–2 (30 ref.)

[Gluteal posterior approach for surgery of the acetabulum] Perves A, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995;81(7):639–42 (Eng. Abstr.) **(Fre)**

[Complex injury of the elbow joint] Regel G, et al. **Unfallchirurg** 1996 Feb;99(2):92–99 (18 ref.) (Eng. Abstr.) **(Ger)**

[Long-term results of therapy of open and closed fractures of the elbow joint] Seekamp A, et al. **Unfallchirurg** 1997

Mar;100(3):205–11 (Eng. Abstr.) **(Ger)**

[Primary closed, stabilization of type C 3 pilon fractures with external fixator without bridging the ankle joint] Vrabl M. **Unfallchirurg** 1997 May;100(5):406–8 (Eng. Abstr.) **(Ger)**

THERAPY

Results of closed intra-articular calcaneal fractures treated with early mobilisation and without reduction. Low CK, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):820–2

Operative vs. nonoperative treatment of intra-articular fractures of the calcaneus: a prospective randomized trial. Thordarson DB, et al. **Foot Ankle Int** 1996 Jan;17(1):2–9

Fractures of the radius and ulna in adults: an analysis of factors affecting outcome. Wilson FC, et al. **Iowa Orthop J** 1997;17:14–9

Displaced isolated fractures of the tibial shaft treated with either a cast or intramedullary nailing. An outcome analysis of matched pairs of patients. Bone LB, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1336–41

Accelerated healing of distal radial fractures with the use of specific, low-intensity ultrasound. A multicenter, prospective, randomized, double-blind, placebo-controlled study. Kristiansen TK, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):961–73

Innominosacral dissociation: mechanism of injury as a predictor of resuscitation requirements, morbidity, and mortality. Whitbeck MG Jr, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):82–8

Conservative treatment of ipsilateral fractures of the scapula and clavicle. Ramos L, et al. **J Trauma** 1997 Feb; 42(2):239–42

The efficacy and safety of the hematoma block for fracture reduction in closed, isolated fractures. Furia JP, et al. **Orthopedics** 1997 May;20(5):423–6

FRACTURES, COMMINUTED

Subcoracoid trapping of the proximal fragment of a fractured clavicle. Kontakis GM, et al. **J Trauma** 1997 Jul;43(1):144–5

Reconstruction of the coronoid process with a radial head fragment. Esser RD. **Orthopedics** 1997 Feb;20(2):169–71

COMPLICATIONS

Injury to the brachial plexus by a fragment of bone after fracture of the clavicle. Barbier O, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):534–6

DIAGNOSIS

Vertebral compression fractures in multiple myeloma. Part I. Distribution and appearance at MR imaging. Lecouvet FE, et al. **Radiology** 1997 Jul;204(1):195–9

Vertebral compression fractures in multiple myeloma. Part II. Assessment of fracture risk with MR imaging of spinal bone marrow. Lecouvet FE, et al. **Radiology** 1997 Jul; 204(1):201–5

ETIOLOGY

Skull fracture caused by vacuum extraction [see comments] Hickey K, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):671–3 . Comment in: Obstet Gynecol 1997 Feb;89(2);319.

A new case of insufficiency fracture in a patient with tabes dorsalis. Marc V, et al. **Rev Rhum Engl Ed** 1997 Apr; 64(4):271–3

RADIOGRAPHY

Significant roentgenographic parameters for evaluating the flexibility of acute thoracolumbar burst fractures. An in vitro study. Lin RM, et al. **Int Orthop** 1997;21(2):109–14

Occult gunshot injury of the temporal bone. Geary UM, et al. **J Accid Emerg Med** 1997 May;14(3):185–6

Patient with post traumatic stress disorder with a self-inflicted gunshot wound during a "nightmare" [letter] Coy JD. **J Emerg Med** 1996 Nov–Dec;14(6):760–2

SURGERY

Persistent osteomyelitis of the femur—2 cases of exchange intramedullary nailing with gentamicin beads in the nail. Tandon SC, et al. **Acta Orthop Scand** 1996 Dec;67(6):620–2

Fibular head autograft. A salvage technique for severely comminuted lateral fractures of the tibial plateau: report of five cases. Russell TA, et al. **Am J Orthop** 1996 Nov; 25(11):766–71

The role of pedicled or free fibular grafts in knee arthrodesis. Hallock GG. **Ann Plast Surg** 1997 Jul;39(1):60–3 (14 ref.)

External fixation of intra-articular fracture of the distal radius in young and old adults. Huch K, et al. **Arch Orthop Trauma Surg** 1996;115(1):38–42

Retrograde intramedullary nailing of the femur using a tibial nail—the adjunctive use of an existing implant: a case report. Rodgers WB, et al. **Bull Hosp Jt Dis** 1996; 55(2):78–80

Dynamic external fixation for distal radius fractures. Dienst M, et al. **Clin Orthop** 1997 May;(338):160–71

Hemiarthroplasty in the treatment of comminuted intraarticular fractures of the proximal humerus. Dimakopoulos P, et al. **Clin Orthop** 1997 Aug;(341):7–11

Primary subtaler arthrodesis for the treatment of comminuted calcaneal fractures. Buch BD, et al. **Foot Ankle Int** 1996 Feb;17(2):61–70

Contoured LCDC plating of the proximal ulna. Simpson NS, et al. **Injury** 1996 Jul;27(6):411–7

Total elbow arthroplasty as primary treatment for distal humeral fractures in elderly patients. Cobb TK, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):826–32

Patellectomy with vastus medialis obliquus advancement for comminuted patellar fractures: a prospective randomised trial. Günal I, et al. **J Bone Joint Surg Br** 1997 Jan; 79(1):13–6

Remote stereotactic visualization for image-guided surgery: technical innovation. Millesi W, et al. **J Craniomaxillofac Surg** 1997 Jun;25(3):136–8

Surgical management of the acute calcaneal joint depression fracture: the VAMC Miami experience. Cohen M. **J Foot Ankle Surg** 1996 Jan–Feb;35(1):2–12 (32 ref.)

External fixation for comminuted phalangeal fractures. A biomechanical cadaver study. Fitoussi F, et al. **J Hand Surg [Br]** 1996 Dec;21(6):760–4

Fixation for comminuted phalangeal fractures. A biomechanical study of five methods. Lu WW, et al. **J Hand Surg [Br]** 1996 Dec;21(6):765–7

A new technique for complex fibula fracture fixation in the elderly: a clinical and biomechanical evaluation. Koval KJ, et al. **J Orthop Trauma** 1997 Jan;11(1):28–33

Plaster cast versus percutaneous pin fixation for comminuted fractures of the distal radius in patients between 46 and 65 years of age. Rodríguez-Merchán EC. **J Orthop Trauma** 1997 Apr;11(3):212–7

Subfascial plate fixation of comminuted diaphyseal femoral fractures: a report of three cases utilizing biological osteosynthesis. van Riet YE, et al. **J Orthop Trauma** 1997 Jan;11(1):57–60

The necessity of acute bone grafting in diaphyseal forearm fractures: a retrospective review. Wright RR, et al. **J Orthop Trauma** 1997 May;11(4):288–94

Traumatic proximal tibiofibular dislocation. Burgos J, et al. **J Pediatr Orthop B** 1997 Jan;6(1):70–2

Biomechanical and computer analysis of radial head prostheses. Gupta GG, et al. **J Shoulder Elbow Surg** 1997 Jan–Feb;6(1):37–48

Plate fixation of comminuted olecranon fractures: an in vitro biomechanical study. King GJ, et al. **J Shoulder Elbow Surg** 1996 Nov–Dec;5(6):437–41

Outcomes can be very unexpected. Avery JK. **J Tenn Med Assoc** 1996 Apr;89(4):127–8

Treatment of comminuted subtrochanteric fractures by dynamic hip screw. Ali M. **JPMA J Pak Med Assoc** 1995 Aug;45(8):212–5

Comparison of formalin preserved bone allograft in the form of a paste and as bone chips in fresh femoral shaft fractures with comminution. Nagi ON, et al. **Singapore Med J** 1997 Feb;38(2):62–7

Comminuted avulsion fractures of the inferior pole of the patella. Veselko M, et al. **Unfallchirurg** 1996 Jan;99(1):71–2

[Scapho-capitate fracture. Apropos of a case, review of the literature] Boisgard S, et al. **Ann Chir Main Memb Super** 1996;15(3):181–8 (21 ref.) (Eng. Abstr.) **(Fre)**

[A salvage technique for comminuted fractures of the patella]. Vasilevski D, et al. **Int Orthop** 1996;20(4):216–7 (Eng. Abstr.) **(Fre)**

[A new method of osteosynthesis in proximal humeral fractures: a new internal fixation device. Apropos of 17 cases followed over more than 2 years] Doursounian L, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(8):743–52 (Eng. Abstr.) **(Fre)**

[Four part valgus impacted fractures of the upper extremity of humerus: ilium graft reconstruction. Apropos of 8 cases] Vandenbussche E, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):658–62 (Eng. Abstr.) **(Fre)**

[Is the static external fixator a suitable method in the treatment of multi-fragmented fractures of the distal radius?] Povacz P, et al. **Handchir Mikrochir Plast Chir** 1996 Nov;28(6):302–5 (Eng. Abstr.) **(Ger)**

[Replacement of the human knee joint by allogenic, vascular pedicled transplant] Hofmann GO, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:565–9 (Eng. Abstr.) **(Ger)**

[Homologous talus replacement after talectomy in infection and septic talus necrosis. Experiences with 3 cases] Rzesacz EH, et al. **Unfallchirurg** 1997 Jun;100(6):497–501 (Eng. Abstr.) **(Ger)**

[4-fragment fractures of the proximal humerus. Alternative strategies for surgical treatment] Speck M, et al. **Unfallchirurg** 1997 May;100(5):349–53 (Eng. Abstr.) **(Ger)**

[Dislocated multiple fragment fractures of the head of the humerus. Does dislocation of the humeral head fragment signify a worse prognosis?] Trupka A, et al. **Unfallchirurg** 1997 Feb;100(2):105–10 (Eng. Abstr.) **(Ger)**

[Treatment of unstable distal radius fractures with a small AO-fixateur externe not bridging the joint] Ziegler IP, et al. **Unfallchirurg** 1996 Nov;99(11):836–40 (Eng. Abstr.) **(Ger)**

[Case report on management of grade 4 infected open comminuted tarsus fracture by tibio-Chopart arthrodesis] Klauss R, et al. **Zentralbl Chir** 1996;121(11):1000–4 (Eng. Abstr.) **(Ger)**

[Early results of treatment for a comminuted articular fracture of the calcaneus using a "DERO" fixator] Król R. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):479–85 (Eng. Abstr.) **(Pol)**

[Free vascularized double barrel fibular graft for reconstruction of femoral deficit—case report and surgical techniques] Molski M, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):139–43 (Eng. Abstr.) **(Pol)**

[Hemi-arthroplasty—primary or secondary measure for 3- and 4-fragment fractures of the proximal humerus in the elderly?] Bosch U, et al. **Unfallchirurg** 1996 Sep; 99(9):656–64 (Eng. Abstr.) **(Pol)**

[The treatment of patients with comminuted fractures of the bones of the zygomatico-orbital complex] Bel'chenko VA, et al. **Stomatologiia (Mosk)** 1997;76(2):36–7 (Eng. Abstr.) **(Rus)**

[The use of extraoral compression-distraction osteosynthesis in treating patients with mandibular fractures with posttraumatic defects and complicated by a suppurative process] Diuriagin NM, et al. **Stomatologiia (Mosk)** 1996; Spec No:54 **(Rus)**

THERAPY

Is anatomical reduction of fractures of the fourth and fifth metacarpals useful? Braakman M. **Acta Orthop Belg** 1997 Jun;63(2):106–9

Treatment of displaced proximal humeral fractures in elderly patients. Zyto K, et al. **J Bone Joint Surg Br** 1997 May; 79(3):412–7

Intra-articular fractures of the distal end of the radius treated with an adjustable fixator system. Zanotti RM, et al. **J Hand Surg [Am]** 1997 May;22(3):428–40

Conservative treatment of ipsilateral fractures of the scapula and clavicle. Ramos L, et al. **J Trauma** 1997 Feb; 42(2):239–42

VETERINARY

Repair of a comminuted femoral fracture in a cat using cortical and cancellous bone grafting techniques. Harasen G. **Can Vet J** 1997 Sep;38(9):574–5

Closed reduction and type-II external fixation of comminuted fractures of the radius and tibia in dogs: 23 cases (1990–1994). Johnson AL, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1445–8

Radiographic diagnosis—aberrant bone growth following phalangeal fracture. Anderson MA, et al. **Vet Radiol Ultrasound** 1997 Jan–Feb;38(1):48–9

Surgical treatment of a comminuted articular fracture of the accessory carpal bone in a thoroughbred horse. Munroe GA, et al. **Vet Rec** 1997 Jul 12;141(2):47–9

FRACTURES, COMPOUND see **FRACTURES, OPEN**

FRACTURES, FATIGUE see **FRACTURES, STRESS**

FRACTURES, MALUNITED

In vitro femoral stiffness after femoral neck osteotomy and osteosynthesis with defined surgical errors. Hernefalk L, et al. **J Orthop Trauma** 1996;10(6):416–20

COMPLICATIONS

Degenerative changes at the knee and ankle related to malunion of tibial fractures [letter; comment] Milner S, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):698. Comment on: J Bone Joint Surg Br 1996 Sep;78(5):722–5.

Degenerative changes at the knee and ankle related to malunion of tibial fractures. 15-year follow-up of 88 patients [see comments] van der Schoot DK, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):722–5. Comment in: J Bone Joint Surg Br 1997 Jul;79(4):698.

The effects of distal radius fracture malalignment on forearm rotation: a cadaveric study. Bronstein AJ, et al. **J Hand Surg [Am]** 1997 Mar;22(2):258–62

[Management of pelvic pseudarthroses and pelvic malunion] Mears DC. **Orthopade** 1996 Sep;25(5):441–8 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Sagittal plane correction of a malunited first metatarsophalangeal arthrodesis utilizing a crescentic osteotomy. Geppert MJ. **Foot Ankle Int** 1997 Feb;18(2):102

Malrotation of the femur after intramedullary nailing. Samuel AW. **Injury** 1996 Jul;27(6):438–40

Contact stress distributions in malreduced intraarticular distal radius fractures. Anderson DD, et al. **J Orthop Trauma** 1996;10(5):331–7

Factors affecting fracture position at cast removal after pediatric forearm fracture. Younger AS, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):332–6

Malunion of the tibia secondary to stress fracture of the tibia and fibula. Beauchesne RP, et al. **Orthopedics** 1996 Dec; 19(12):1041–3

[Instability of the elbow after supracondylar humeral non-union in cubitus varus rotation. Apropos of 2 cases observed in adults] Mondoloni P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(8):757–61 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Varus malalignment of the talar neck. Its effect on the position of the foot and on subtalar motion. Daniels TR, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1559–67

FRACTURES, MALUNITED

Bone remodeling in malunited fractures in children. Is it reliable? Gascó J, et al. **J Pediatr Orthop B** 1997 Apr; 6(2):126–32 (88 ref.)

RADIOGRAPHY

Refracture of the forearm in children. Schwarz N, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):740–4

[A defective callus of the trapezoid bone diagnosed by 3–dimensional scanner] Filloux JF, et al. **Acta Orthop Belg** 1996 Sep;62(3):180–2 (Eng. Abstr.) **(Fre)**

SURGERY

The triceps–splitting approach for repair of distal humeral malunion in children. A report of a technique [see comments] Blasier RD. **Am J Orthop** 1996 Sep;25(9):621–4 . Comment in: Am J Orthop 1997 Feb;26(2):76.

Repair of distal humeral malunion in children [letter; comment] Lehman WB. **Am J Orthop** 1997 Feb;26(2):76. Comment on: Am J Orthop 1996 Sep;25(9):621–4.

Malunion after intramedullary nailing of tibial shaft fractures. Kyrö A. **Ann Chir Gynaecol** 1997;86(1):56–64

Segmental shortening of the ulna in some malunions of the distal radius. Massart P, et al. **Ann Chir Main** 1982; 1(1):65–70 **(Eng, Fre)**

Corrective osteotomy for malunion of the distal radius: the effect of concomitant ulnar shortening osteotomy. Oskam J, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):219–22

Revision ankle fusion using internal compression arthrodesis with screw fixation [published erratum appears in Foot Ankle Int 1997 Jun;18(6):379] Anderson JG, et al. **Foot Ankle Int** 1997 May;18(5):300–9

Sagittal plane correction of a malunited first metatarsophalangeal arthrodesis utilizing a crescentic osteotomy. Geppert MJ. **Foot Ankle Int** 1997 Feb;18(2):102

Late reconstruction after pelvic ring injuries. Gautier E, et al. **Injury** 1996;27 Suppl 2:B39–46 (24 ref.)

The Ilizarov method in nonunion, malunion and infection of fractures. Marsh DR, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):273–9

Surgical management of mandibular malposition after malunited condylar fractures in adults. Spitzer WJ, et al. **J Craniomaxillofac Surg** 1997 Apr;25(2):91–6

A surgical technique to treat a malunited symptomatic Bennett's fracture. Giachino AA. **J Hand Surg [Am]** 1996 Jan;21(1):149–51

Correction of malunited Bennett's fracture by intra–articular osteotomy: a report of two cases. Jebson PJ, et al. **J Hand Surg [Am]** 1997 May;22(3):441–4

Corrective osteotomy for scaphoid malunion: technique and long–term follow–up evaluation. Lynch NM, et al. **J Hand Surg [Am]** 1997 Jan;22(1):35–43

Treatment of posttraumatic cubitus varus in the pediatric population with humeral osteotomy and external fixation. Levine MJ, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):597–601

[Bone lengthening osteotomy in malunited clavicular fracture] Peters G, et al. **Unfallchirurg** 1997 Apr; 100(4):270–3 (Eng. Abstr.) **(Ger)**

[Correcting torsion after intramedullary nailing osteosynthesis of the lower extremity] Strecker W, et al. **Unfallchirurg** 1997 Jan;100(1):29–38 (Eng. Abstr.) **(Ger)**

[Mikrozespol fixator in treatment of metacarpal malunion (preliminary report)] Milka S, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(1):21–5 (Eng. Abstr.) **(Pol)**

FRACTURES, MARCH see **FRACTURES, STRESS**

FRACTURES, OPEN

Open pelvic fractures. A multicenter retrospective analysis. Jones AL, et al. **Orthop Clin North Am** 1997 Jul; 28(3):345–50

CLASSIFICATION

The functional outcome of lower–extremity fractures with vascular injury. Lin CH, et al. **J Trauma** 1997 Sep; 43(3):480–5

COMPLICATIONS

Pyogenic arthritis of the hip following an occult open fracture of the pubic rami—a case report. Thiagarajan P, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):590–1

Diagnostic value of C–reactive protein and transthyretin in bone infections of the lower limb. Bourguignat A, et al. **Clin Chim Acta** 1996 Nov 15;255(1):27–38

Nocardia otitidiscaviarum infection of a traumatic skin wound. Mereghetti L, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):383–4

Ipsilateral knee ligament injuries and open tibial diaphyseal fractures: incidence and nature of knee ligament injuries sustained. Thiagarajan P, et al. **Injury** 1997 Mar;28(2):87–90

Nailbed injuries with hallucal phalangeal fractures—evaluation and treatment. Tucker DJ, et al. **J Am Podiatr Med Assoc** 1996 Apr;86(4):170–3 (11 ref.)

Fracture on removal of the ACE tibial nail. Takakuwa M, et al. **J Bone Joint Surg Br** 1997 May;79(3):444–5

Open medial subtalar dislocation associated with fracture of the posterior process of the talus [see comments] Naranja RJ Jr, et al. **J Orthop Trauma** 1996;10(2):142–4 (5 ref.). Comment in: J Orthop Trauma 1997 Apr;11(3):238.

[Infected pseudarthrosis] Kinzl L, et al. **Orthopade** 1996 Sep; 25(5):478–83 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Initial assessment and management of common fractures. Martin RE. **Prim Care** 1996 Jun;23(2):405–9

Simultaneous open dislocations of the interphalangeal and metacarpo–phalangeal joints in a thumb—a case report. Lee JC, et al. **Singapore Med J** 1996 Jun;37(3):318–9 (7 ref.)

DRUG THERAPY

[Effect of 1–chloromethylsilatrane on healing of experimental open bone fractures] Mansurova LA, et al. **Dokl Akad Nauk** 1996 Jan;346(1):129–31 **(Rus)**

EPIDEMIOLOGY

Epidemiology and management of open fractures of the lower limb. Howard M, et al. **Br J Hosp Med** 1997 Jun 4–17;57(11):582–7 (27 ref.)

ETIOLOGY

External fixation–minimal osteosynthesis: indications, role, and place in war surgery. **Pukljak D. J Trauma** 1997 Aug; 43(2):275–82

HISTORY

Early limb salvage: open tibia fractures of Ambroise Paré (1510–1590) and Percivall Pott (1714–1789). Kocher MS. **World J Surg** 1997 Jan;21(1):116–22

MICROBIOLOGY

Efficacy of cultures in the management of open fractures. Lee J. **Clin Orthop** 1997 Jun;(339):71–5

PARASITOLOGY

Oral myiasis. A case report. Lata J, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):455–6

PHYSIOPATHOLOGY

Age as a prognostic factor in open tibial fractures in children. Blasier RD, et al. **Clin Orthop** 1996 Oct;(331):261–4

SURGERY

Soft tissue management of open tibia fractures. Yaremchuk MJ, et al. **Acta Orthop Belg** 1996;62 Suppl 1:188–92

Ankle stability without the lateral malleolus—a report of 2 cases. Mostert AK, et al. **Acta Orthop Scand** 1996 Dec; 67(6):622–3

Healing of a tibial double osteotomy is modified by clodronate administration. Nyman MT, et al. **Arch Orthop Trauma Surg** 1996;115(2):111–4

Sequential intramedullary nailing of open tibial shaft fractures after external fixation. Siebenrock KA, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):32–6

Incomplete or absent acute phase response in some postoperative patients. Bourguignat A, et al. **Clin Chim Acta** 1997 Aug 8;264(1):27–35

Nonreamed locking intramedullary nailing for open fractures of the tibia. Bonatus T, et al. **Clin Orthop** 1997 Jun; (339):58–64

Skeletal fixation of grade IIIB tibial fractures. The potential of metaanalysis. Dervin GF. **Clin Orthop** 1996 Nov; (332):10–5

Reamed interlocking intramedullary nailing of open fractures of the tibia. Keating JF, et al. **Clin Orthop** 1997 May; (338):182–91

Efficacy of cultures in the management of open fractures. Lee J. **Clin Orthop** 1997 Jun;(339):71–5

Combined muscle flap and Ilizarov reconstruction for bone and soft tissue defects. Lowenberg DW, et al. **Clin Orthop** 1996 Nov;(332):37–51

Open fractures of the humerus treated with external fixation. Mostafavi HR, et al. **Clin Orthop** 1997 Apr;(337):187–97

Superior results of tibial rodding versus external fixation in grade 3B fractures. Schandelmaier P, et al. **Clin Orthop** 1997 Sep;(342):164–72

Treatment of open tibial fractures with primary suture and Ilizarov fixation. Shtarker H, et al. **Clin Orthop** 1997 Feb; (335):268–74

Open fractures and internal fixation in a major African hospital. Steiner AK, et al. **Injury** 1996 Nov;27(9):625–30

Unreamed nailing of tibial fractures—a prospective study of the routine use of the unreamed tibial nail. Harrington P, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):282–5

Locking intramedullary nailing with and without reaming for open fractures of the tibial shaft. A prospective, randomized study. Keating JF, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):334–41

Rotationplasty for the treatment of severe bone loss and infection of the distal end of the femur. A case report. Krettek C, et al. **J Bone Joint Surg Am** 1997 May; 79(5):771–4

External fixation and secondary intramedullary nailing of open tibial fractures. A randomised, prospective trial. Antich–Adrover P, et al. **J Bone Joint Surg Br** 1997 May; 79(3):433–7

Complex nonunion of fractures of the femoral shaft treated by wave–plate osteosynthesis. Ring D, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):289–94

Treatment of a large segmental bone defect with allograft and autogenous bone marrow graft. Jean JL, et al. **J Formos Med Assoc** 1997 Jul;96(7):553–7

Outcome of microvascular free–tissue transfer in lower extremity fractures. Dennis RH 2nd, et al. **J Natl Med Assoc** 1996 Nov;88(11):705–8

Treatment of type II and type III open tibia fractures in children. Bartlett CS 3rd, et al. **J Orthop Trauma** 1997 Jul; 11(5):357–62

Open inferior glenohumeral dislocation. Davison BL, et al. **J Orthop Trauma** 1996;10(7):504–6

Simplified external fixation for primary management of severe musculoskeletal injuries under war and peace time conditions. Hammer RR, et al. **J Orthop Trauma** 1996; 10(8):545–54

Reamed nailing of open tibial fractures: does the antibiotic bead pouch reduce the deep infection rate? Keating JF, et al. **J Orthop Trauma** 1996;10(5):298–303

Local–advancement soft–tissue coverage in a child with ipsilateral grade IIIB open tibial and ankle fractures. Klein DM, et al. **J Orthop Trauma** 1996;10(8):577–80

Cross leg flap in a bilateral traumatic amputee. Thomas SJ, et al. **J Orthop Trauma** 1996;10(7):510–3

Open fractures of the patella. Torchia ME, et al. **J Orthop Trauma** 1996;10(6):403–9

Irreducible open intertrochanteric hip fracture secondary to entrapment of the sciatic nerve in a child. Wiss DA, et al. **J Orthop Trauma** 1997 Jan;11(1):38–40 (10 ref.)

Treatment of deformed tibial intramedullary nail: report of two cases. Yip KM, et al. **J Orthop Trauma** 1996; 10(8):580–3

Severe (type III) open fractures of the tibia in children. Buckley SL, et al. **J Pediatr Orthop** 1996 Sep–Oct; 16(5):627–34

Open fractures of the tibia and femur in children. Robertson P, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):621–6

Traumatic proximal tibiofibular dislocation. Burgos J, et al. **J Pediatr Orthop B** 1997 Jan;6(1):70–2

Complex fractures about the elbow. Webb LX. **J South Orthop Assoc** 1995 Winter;4(4):247–54 (21 ref.)

Reemployment of patients with surgical salvage of open, high–energy tibial fractures: an outcome study. Arangio GA, et al. **J Trauma** 1997 May;42(5):942–5

External fixation–minimal osteosynthesis: indications, role, and place in war surgery. Pukljak D. **J Trauma** 1997 Aug; 43(2):275–82

Functional outcome of patients with salvageable limbs with grades III–B and III–C open fractures of the tibia. Puno RM, et al. **Microsurgery** 1996;17(3):167–73

Peroneal osteocutaneous flap raised on reconstructed popliteal artery for delayed union following open tibial fractures. Saitoh S, et al. **Microsurgery** 1996;17(4):230–7

Comparison of ceftriaxone with penicillin for antibiotic prophylaxis for compound mandible fractures. Heit JM, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):423–6

Free composite serratus anterior and rib flaps for tibial composite bone and soft–tissue defect. Lin CH, et al. **Plast Reconstr Surg** 1997 May;99(6):1656–65

Microvascular free flaps in the treatment of defects of the lower legs. Udesen A, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):183–6

[Callus distraction in tibial defect fractures] Giebel G. **Chirurg** 1996 Nov;67(11):1063–8 (8 ref.) (Eng. Abstr.) **(Ger)**

[Defect fractures of the tibia—various forms of bone replacement] Mittelmeier W, et al. **Chirurg** 1996 Nov; 67(11):1087–92 (30 ref.) (Eng. Abstr.) **(Ger)**

[The monorail system—bone segment transport over unreamed interlocking nails] Oedekoven G, et al. **Chirurg** 1996 Nov;67(11):1069–79 (Eng. Abstr.) **(Ger)**

[Reversed musculus biceps femoris flap for covering a defect of the distal thigh] Siebert CH, et al. **Chirurg** 1996 Nov; 67(11):1188–92 (Eng. Abstr.) **(Ger)**

[Plastic soft tissue coverage in defect fractures of the tibia] Steinau HU, et al. **Chirurg** 1996 Nov;67(11):1080–6 (30 ref.) (Eng. Abstr.) **(Ger)**

[UFN system. A method of minimal invasive surgical management of femoral shaft fractures] Stockenhuber N, et al. **Langenbecks Arch Chir** 1996;381(5):267–74 (Eng. Abstr.) **(Ger)**

[Titanium implants in accident surgery—when are they necessary?] Arens S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:938–40 (Eng. Abstr.) **(Ger)**

[Value of microvascular, free flap transplantation in treatment of open tibial fracture] de Zwart PM, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:954–5 (Eng. Abstr.) **(Ger)**

[Revision operations after failed arthrodeses of the upper ankle joint] Eingartner C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:941–4 (Eng. Abstr.) **(Ger)**

[New developments in covering post–traumatic soft tissue defects] Berger A, et al. **Orthopade** 1997 May;26(5):470–80 (34 ref.) (Eng. Abstr.) **(Ger)**

[Perspectives in callus distraction] Baumgart R, et al.

Unfallchirurg 1996 Feb;99(2):84–91 (26 ref.) (Eng. Abstr.) **(Ger)**

[Saving the extremity by massive transfusion in grade III open femoral fracture with vascular lesion. A case report] Fialka C, et al. **Unfallchirurg** 1997 Jul;100(7):587–90 (Eng. Abstr.) **(Ger)**

[Bridging an extensive bone defect with cortico-spongious transplants in femoral fracture caused by gunshot injury] Komadina R, et al. **Unfallchirurg** 1996 Sep;99(9):701–3 (Eng. Abstr.) **(Ger)**

[Development and initial clinical use of an aiming device for distal boring in interlocking nailing without roentgen image intensifier for the unreamed tibial nail] Krettek C, et al. **Unfallchirurg** 1996 Nov;99(11):845–54 (Eng. Abstr.) **(Ger)**

[Defect fractures of the upper arm and their treatment in difficult circumstances. 3 case reports from Ethiopian and Somalian provincial hospitals] Mandrella B, et al. **Unfallchirurg** 1997 Feb;100(2):154–8 (Eng. Abstr.) **(Ger)**

[Problems in removal of a broken unreamed tibial nail] Rangger C, et al. **Unfallchirurg** 1996 Jan;99(1):68–70 (Eng. Abstr.) **(Ger)**

[Supportive composite-hybrid fixation of percutaneous screw fixation of tibial head fractures] Raschke MJ, et al. **Unfallchirurg** 1996 Nov;99(11):855–60 (Eng. Abstr.) **(Ger)**

[Complex injury of the elbow joint] Regel G, et al. **Unfallchirurg** 1996 Feb;99(2):92–99 (18 ref.) (Eng. Abstr.) **(Ger)**

[Results of primary unreamed tibial nailing of tibial fractures with severe open or closed soft tissue injuries] Runkel M, et al. **Unfallchirurg** 1996 Oct;99(10):771–7 (Eng. Abstr.) **(Ger)**

[Homologous talus replacement after talectomy in infection and septic talus necrosis. Experiences with 3 cases] Rzesacz EH, et al. **Unfallchirurg** 1997 Jun;100(6):497–501 (Eng. Abstr.) **(Ger)**

[Advantages of the unreamed tibial nail in comparison with external fixator in treatment of grade 3 B open tibial shaft fractures] Schandelmaier P, et al. **Unfallchirurg** 1997 Apr; 100(4):286–93 (Eng. Abstr.) **(Ger)**

[Long-term results of therapy of open and closed fractures of the elbow joint] Seekamp A, et al. **Unfallchirurg** 1997 Mar;100(3):205–11 (Eng. Abstr.) **(Ger)**

[Indications and use of "AO pinless fixateurs". A preliminary report] Schippinger G, et al. **Unfallchirurgie** 1996 Oct; 22(5):216–22 (Eng. Abstr.) **(Ger)**

[Case report on management of grade 4 infected open comminuted tarsus fracture by tibio-Chopart arthrodesis] Klauss R, et al. **Zentralbl Chir** 1996;121(11):1000–4 (Eng. Abstr.) **(Ger)**

[Treatment concept and results of grade 3 open fractures with arterial injuries requiring reconstruction] Ostermann PA, et al. **Zentralbl Chir** 1996;121(11):990–3 (Eng. Abstr.) **(Ger)**

[External humeral fixation in war injuries] Norman D, et al. **Harefuah** 1996 Nov 1;131(9):310–2, 375 (Eng. Abstr.) **(Heb)**

[Treatment of compound C2 tibial shaft fracture with Polfix fixator in the pillar version] Wójcik B, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):415–22 (Eng. Abstr.) **(Pol)**

[Analysis of results of treatment of open and unstable grade II and III fractures in the calf] Has B, et al. **Lijec Vjesn** 1996 Mar-Apr;118(3–4):57–9 (Eng. Abstr.) **(Scr)**

THERAPY

Epidemiology and management of open fractures of the lower limb. Howard M, et al. **Br J Hosp Med** 1997 Jun 4–17;57(11):582–7 (27 ref.)

Monteggia and equivalent lesions. A study of 41 cases. Givon U, et al. **Clin Orthop** 1997 Apr;(337):208–15

Open fractures of the tibia in children. Grimard G, et al. **Clin Orthop** 1996 Nov;(332):62–70

Open fractures of the tibial shaft. Olson SA. **Instr Course Lect** 1997;46:293–302 (72 ref.)

Type III-B open tibial fractures in Mozambique. A prospective study of 50 cases. Carballedo J, et al. **Int Orthop** 1996;20(5):300–4

Fractures of the radius and ulna in adults: an analysis of factors affecting outcome. Wilson FC, et al. **Iowa Orthop J** 1997;17:14–9

Oral antimicrobials in compound fracture of the hand: comparison of dicloxacillin and ofloxacin. Waikakul S, et al. **J Med Assoc Thai** 1996 Sep;79(9):585–8

Open fractures of the tibia in children. Song KM, et al. **J Pediatr Orthop** 1996 Sep-Oct;16(5):635–9

The orthopedic and social outcome of open tibia fractures in children. Levy AS, et al. **Orthopedics** 1997 Jul; 20(7):593–8

[Treatment of open fractures due to dog bite] Dimant A, et al. **Harefuah** 1997 Apr 1;132(7):461–3, 527 (Eng. Abstr.) **(Heb)**

[Prehospital care for the victims in road traffic accidents] Levenets VN, et al. **Klin Khir** 1995;(1):25–7 **(Rus)**

FRACTURES, PATHOLOGICAL see **FRACTURES, SPONTANEOUS**

FRACTURES, SPONTANEOUS

BLOOD

Reliability of parathyroid hormone measurements in the period immediately following hip fracture. Johansen A, et al. **Age Ageing** 1997 May;26(3):175–8

COMPLICATIONS

Spontaneous hip fractures, 44/872 in a prospective study. Parker MJ, et al. **Acta Orthop Scand** 1997 Aug;68(4):325–6

Aneurysmal bone cyst in a patient with osteogenesis imperfecta. Stig Jacobsen F. **J Pediatr Orthop B** 1997 Jul; 6(3):225–7

Pathological fracture in mycetoma. Fahal AH, et al. **Trans R Soc Trop Med Hyg** 1996 Nov-Dec;90(6):675–6

DIAGNOSIS

Measurements of cortical thickness in experimentally created endosteal bone lesions: a comparison of radiography, CT, MR imaging, and anatomic sections. Preidler KW, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1501–5

Insufficiency fracture of the femoral head: MR imaging in three patients. Rafii M, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):159–63

Case report: sacral insufficiency fractures masking malignancy. Peh WC, et al. **Clin Radiol** 1997 Jan;52(1):71–2

Single vertebral compression and involvement of the posterior elements in tuberculous spondylitis: observation on MR imaging. Ehara S, et al. **Radiat Med** 1997 May-Jun; 15(3):143–7

Vertebral compression fractures in multiple myeloma. Part II. Assessment of fracture risk with MR imaging of spinal bone marrow. Lecouvet FE, et al. **Radiology** 1997 Jul; 204(1):201–5

Vertebral compression fractures in multiple myeloma. Part I. Distribution and appearance at MR imaging. Lecouvet FE, et al. **Radiology** 1997 Jul;204(1):195–9

Subchondral insufficiency fracture of the femoral head. Bangil M, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):859–61 (6 ref.)

Insufficiency fractures of the medial femoral condyle. Lafforgue P, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):262–9

Pelvic insufficiency fractures associated with radiation atrophy: clinical recognition and diagnostic evaluation. Mumber MP, et al. **Skeletal Radiol** 1997 Feb;26(2):94–9

[A case report of Erdheim-Chester disease] Furutani K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):681–3 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Dual use of silver for management of chronic bone infections and infected non-unions. Nand S, et al. **J Indian Med Assoc** 1996 Mar;94(3):91–5

EPIDEMIOLOGY

Re: Konski and Sowers IJROBP 35(2):361–367; 1996 [letter; comment] Lim P, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):990–1. Comment on: Int J Radiat Oncol Biol Phys 1996 May 1;35(2):361–7.

ETIOLOGY

Pathological fractures in bone sarcomas. Morris HG. **Acta Orthop Scand Suppl** 1997 Feb;273:106–7

Incidence of radiation-induced insufficiency fractures of the female pelvis: evaluation with MR imaging. Blomlie V, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1205–10

Insufficiency fracture of the sacrum revealing a pregnancy associated osteoporosis. First case report [letter] Breuil V, et al. **Ann Rheum Dis** 1997 Apr;56(4):278–9

Bilateral fracture of the mandible in chronic lymphocytic leukaemia. Case report. Wright GW, et al. **Aust Dent J** 1997 Feb;42(1):20–4

The consequences of osteoporosis in the elderly [see comments] Mykyta LJ. **Aust Fam Physician** 1997 Feb; 26(2):115–21 (26 ref.). Comment in: Aust Fam Physician 1997 Apr;26(4):475.

Fatigue root fracture: a spontaneous root fracture in non-endodontically treated teeth. Yeh CJ. **Br Dent J** 1997 Apr 12;182(7):261–6

Supra-acetabular insufficiency fractures: role of fluoride treatment and vitamin D deficiency? [letter] Chary-Valckenaere I, et al. **Br J Rheumatol** 1997 May; 36(5):603–5

Case management study: osteoporotic fracture. Broy SB. **Bull Rheum Dis** 1996 Feb;45(1):6–8

Bone fractures associated with luteinizing hormone-releasing hormone agonists used in the treatment of prostate carcinoma. Townsend MF, et al. **Cancer** 1997 Feb 1; 79(3):545–50

Pathologic fracture on bone cyst of the femoral neck treated by external fixator. Description of one case. Taroni A, et al. **Chir Organi Mov** 1997 Jan-Mar;82(1):91–4 **(Eng, Ita)**

Spontaneous subcapital femoral neck fracture after healed trochanteric fracture. Buciuto R, et al. **Clin Orthop** 1997 Sep;(342):156–63

Fractures in very low birth weight infants with rickets. Dabezies EJ, et al. **Clin Orthop** 1997 Feb;(335):233–9

Prosthetic hip replacement for pathologic or impending pathologic fractures in myeloma. Papagelopoulos PJ, et al. **Clin Orthop** 1997 Aug;(341):192–205

Pathological fracture: a common presentation of primary hyperparathyroidism in Iraq. Sawa TE, et al. **Eur J Surg** 1996 Oct;162(10):777–81

A new, standardized approach to fracture risk interpretation. Wasnich RD. **Hawaii Med J** 1996 Aug;55(8):141–3

Pathologic fracture of the mandible caused by intraosseous metastasis of oesophageal squamous cell carcinoma: a case report. Plath T, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):282–4

Pathological fracture after prophylactic reconstruction nailing of the femur. The need for distal locking. Chesser TJ, et al. **Int Orthop** 1996;20(3):190–1

Displaced subcapital fracture of the hip in transient osteoporosis of pregnancy. A case report. Fokter SK, et al. **Int Orthop** 1997;21(3):201–3

Pathological fractures in patients with cerebral palsy [comment] Brunner R, et al. **J Pediatr Orthop B** 1996 Fall; 5(4):232–8. Comment on: J Pediatr Orthop B 1996 Fall;5(4):223–4.

Unusual complications at iliac crest bone graft donor site: experience with two cases. Porchet F, et al. **Neurosurgery** 1996 Oct;39(4):856–9

Fractures in children treated with radiotherapy for soft tissue sarcoma. Wall JE, et al. **Orthopedics** 1996 Aug;19(8):657–64 (24 ref.)

The epidemiology of quantitative ultrasound: a review of the relationships with bone mass, osteoporosis and fracture risk. Gregg EW, et al. **Osteoporos Int** 1997;7(2):89–99 (84 ref.)

Bone insufficiency fractures as an inaugural manifestation of primary hyperparathyroidism. Lafforgue P, et al. **Rev Rhum Engl Ed** 1996 Jul-Sep;63(7–8):475–9 (26 ref.)

Pain due to bone insufficiency as a symptom heralding femoral neck fracture. Maugars Y, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):30–5

Osteoporotic fractures revealing anorexia nervosa in five females. Maugars Y, et al. **Rev Rhum Engl Ed** 1996 Mar; 63(3):201–6

Epiphyseal extension of a unicameral bone cyst. Haims AH, et al. **Skeletal Radiol** 1997 Jan;26(1):51–4

Pelvic insufficiency fractures associated with radiation atrophy: clinical recognition and diagnostic evaluation. Mumber MP, et al. **Skeletal Radiol** 1997 Feb;26(2):94–9

The intravertebral vacuum phenomenon ("vertebral osteonecrosis"). Migration of intradiscal gas in a fractured vertebral body? Lafforgue P, et al. **Spine** 1997 Aug 15; 22(16):1885–91

[Fracture of the sacrum caused by bone insufficiency in a pregnant woman] Grimaud A, et al. **J Radiol** 1997 Jul; 78(7):511–2 (Eng. Abstr.) **(Fre)**

[Dens axis fracture, spinal pain and hematemesis] Rexroth G, et al. **Internist (Berl)** 1997 Feb;38(2):160–4 **(Ger)**

[Multiple bone pain, significant weight loss, multiple enhanced uptake in bone scintigraphy and massively increased alkaline phosphatase in a patient after stomach resection 27 years previously (clinical conference)] Rzepka AH, et al. **Med Klin** 1996 Feb 15;91(2):72–5 **(Ger)**

[A case of Sjogren syndrome with renal tubular acidosis, osteomalacia and pseudo-bone fracture] Haba T, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):127–9 **(Jpn)**

[Osteoporosis in men under 65 years old presenting as vertebral crushing: idiopathic or secondary? Study of 9 cases] Pumarino H, et al. **Rev Med Chil** 1996 Jul; 124(7):829–35 (Eng. Abstr.) **(Spa)**

GENETICS

New form of bone dysplasia with multiple fractures associated with monosomy X. Azouz EM, et al. **Am J Med Genet** 1996 Dec 11;66(2):163–8

Antley-Bixler syndrome. Description of two new cases and a review of the literature. Bottero L, et al. **Childs Nerv Syst** 1997 May;13(5):275–80; discussion 281 (19 ref.)

PATHOLOGY

Age-related changes in vertebral height ratios and vertebral fracture. Sone T, et al. **Osteoporos Int** 1997;7(2):113–8

PHYSIOPATHOLOGY

Hip fracture presenting as isolated knee pain. Guss DA. **Ann Emerg Med** 1997 Mar;29(3):418–20

Bone mineral density and blood flow to the lower extremities: the study of osteoporotic fractures. Vogt MT, et al. **J Bone Miner Res** 1997 Feb;12(2):283–9

Measurement of bone mineral density in osteoporotic fractures of the spine using dual energy X-ray absorptiometry. Jahng JS, et al. **Orthopedics** 1996 Nov; 19(11):951–4

PREVENTION & CONTROL

Osteoporosis: it is a fact of life but both preventable and treatable. Yerkes A. **J Okla State Med Assoc** 1996 May; 89(5):179–80

Operative management of impending pathological fractures: a critical analysis of therapy. Van Geffen E, et al. **J Surg Oncol** 1997 Mar;64(3):190–4

Vitamin D treatment and bone mineral density in the aged. Heikinheimo R, et al. **Maturitas** 1996 May;23 Suppl:S77–80

FRACTURES, SPONTANEOUS

The effects of a community exercise program on fracture risk factors in older women. Lord SR, et al. **Osteoporos Int** 1996;6(5):361–7

Prediction of peripheral fracture risk by quantitative microdensitometry. Vecht-Hart CM, et al. **Prev Med** 1997 Jan–Feb;26(1):86–91

[Bisphosphonates in osteoporosis; a reevaluation (letter; comment)] Ek JW. **Ned Tijdschr Geneeskd** 1997 Feb 22; 141(8):399. Comment on: Ned Tijdschr Geneeskd 1996 Nov 30;140(48):2394–8. **(Dut)**

[Does alendronate reduce the risk of fractures in postmenopausal women with osteoporosis?] Häuselmann HJ. **Schweiz Rundsch Med Prax** 1997 Apr 9;86(15):613 **(Ger)**

[The efficacy of pamidronate in reducing skeletal associated events in patients with advanced multiple myeloma] Adamietz IA. **Strahlenther Onkol** 1997 Jan;173(1):52–3 **(Ger)**

RADIOGRAPHY

Prediction of pathological subtrochanteric fractures due to metastatic lesions. Dijkstra PD, et al. **Arch Orthop Trauma Surg** 1997;116(4):221–4

Images in clinical medicine. Pathologic fracture. Dores GM, et al. **N Engl J Med** 1997 Oct 9;337(15):1043

[Clinico-radiologic considerations on "stress fractures" of the leg] Coppola V, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):185–93 (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Bilateral femoral neck fractures with negative bone scans. Bal BS, et al. **Orthopedics** 1996 Nov;19(11):974–6

SURGERY

Implant failure four years after resection and reconstruction of a femur for a chondrosarcoma. Broos PL, et al. **Acta Orthop Belg** 1996 Dec;62(4):244–8

Compound osteosynthesis of pathological fractures of the proximal femoral shaft: Experimental studies on the biomechanical effects of additional intramedullary splinting. Heller KD, et al. **Arch Orthop Trauma Surg** 1996; 115(2):115–7

Management of patella fractures associated with central third bone–patella tendon–bone autograft ACL reconstructions. Berg EE. **Arthroscopy** 1996 Dec;12(6):756–9

Multiple myeloma. Surgical stabilisation often provides good pain relief [letter; comment] Galasko CS. **BMJ** 1997 Jul 19;315(7101):186. Comment on: BMJ 1997 Mar 29;314(7085):960–3.

Multiple myeloma. Surgery is often more effective than analgesia for mechanical pain [letter; comment] Krikler SJ. **BMJ** 1997 Jul 19;315(7101):186. Comment on: BMJ 1997 Mar 29;314(7085):960–3.

Surgical treatment of pathologic hip lesions in patients with metastatic disease. Algan SM, et al. **Clin Orthop** 1996 Nov; (332):223–31

Prosthetic hip replacement for pathologic or impending pathologic fractures in myeloma. Papagelopoulos PJ, et al. **Clin Orthop** 1997 Aug;(341):192–205

Treatment of pathological fractures of the humeral shaft due to bone metastases: a comparison of intramedullary locking nail and plate osteosynthesis with adjunctive bone cement. Dijkstra S, et al. **Eur J Surg Oncol** 1996 Dec;22(6):621–6

Treatment of humeral pathological fractures by internal fixation and methylmetacrylate injection. Vandeweyer E, et al. **Eur J Surg Oncol** 1997 Jun;23(3):238–42

Treatment of pathologic fracture and surgical value of prognostic factors in multiple myeloma. Takei T, et al. **Int Surg** 1996 Oct–Dec;81(4):403–6

Total knee arthroplasty in the management of proximal tibial stress fractures. Tomlinson MP, et al. **J Arthroplasty** 1995 Oct;10(5):707–13

The surgical treatment and outcome of pathological fractures in localised osteosarcoma. Abudu A, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):694–8

Articulated radial head replacement and elbow release for post head–injury heterotopic ossification. Charnley G, et al. **J Orthop Trauma** 1996;10(1):68–71

Mechanical failure of the intramedullary hip screw in a subtrochanteric femoral fracture. Rantanen J, et al. **J Orthop Trauma** 1996;10(5):348–50

Operative management of impending pathological fractures: a critical analysis of therapy. Van Geffen E, et al. **J Surg Oncol** 1997 Mar;64(3):190–4

[Surgery of bone metastases in advanced age?] Grabbe F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:925–7 (Eng. Abstr.) **(Ger)**

[Efficacy of intramedullary stabilization of pathologic femoral shaft fractures] Holmenschlager F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:987–90 (Eng. Abstr.) **(Ger)**

[Pathological fractures—rare, sensitive, exciting (editorial)] Mutschler W. **Unfallchirurg** 1997 Jun;100(6):409 **(Ger)**

[Pathological fractures] Mutschler W, et al. **Unfallchirurg** 1997 Jun;100(6):410–29 (73 ref.) (Eng. Abstr.) **(Ger)**

[Surgical management of bone metastases of the lower extremity with AO interlocking nail] Krawzak HW, et al. **Zentralbl Chir** 1996;121(11):994–8; discussion 999 (Eng. Abstr.) **(Ger)**

[Treatment of pathological fractures caused by metastatic bone cancer] Tateishi A, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):285–91 (9 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

Indications for the treatment of pathologic fracture in tumors of bone. Casadei R, et al. **Chir Organi Mov** 1996 Jan–Mar; 81(1):21–30 **(Eng, Ita)**

Osteoporosis & low back pain. Myers A. **Compr Ther** 1997 Jan;23(1):57–9

Managing osteoporotic fractures: minimizing pain and disability. Von Feldt JM. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):78S–80S (13 ref.)

[Pathologic humeral fracture in secondary osteosarcoma of the humerus: a rare complication of osteodystrophia deformans Paget] Katzer A, et al. **Unfallchirurgie** 1997 Feb; 23(1):18–22 (Eng. Abstr.) **(Ger)**

FRACTURES, STRESS

Bilateral stress-fracture of the calcaneal tubercle. Rosted A, et al. **Acta Orthop Belg** 1997 Mar;63(1):43–5

Bilateral femoral stress fractures in a child due to in-line (roller) skating. Toren A, et al. **Acta Paediatr** 1997 Mar; 86(3):332–3

Fatigue fracture of the medial malleolus in a junior rollerskater [letter] Dracopoulos GC. **Aust N Z J Surg** 1997 Jan;67(1):60–1

Simultaneous bilateral tibial stress fractures in a 15-year-old milkman—a case report. Speed CA, et al. **Br J Rheumatol** 1996 Sep;35(9):905–7

Femoral stress fractures. Boden BP, et al. **Clin Sports Med** 1997 Apr;16(2):307–17 (18 ref.)

Stress fractures in the pediatric athlete. Coady CM, et al. **Clin Sports Med** 1997 Apr;16(2):225–38 (43 ref.)

Stress fractures: general concepts. Knapp TP, et al. **Clin Sports Med** 1997 Apr;16(2):339–56 (39 ref.)

Stress fractures. Clinical history and physical examination. Maitra RS, et al. **Clin Sports Med** 1997 Apr;16(2):259–74 (26 ref.)

Stress injury to bone in the female athlete. Nattiv A, et al. **Clin Sports Med** 1997 Apr;16(2):197–224 (131 ref.)

Metatarsal stress fractures. Weinfeld SB, et al. **Clin Sports Med** 1997 Apr;16(2):319–38 (30 ref.)

Hip pains in a recreational runner. Batt ME, et al. **Int J Sports Med** 1995 Nov;16(8):563–7

Stress fractures in skeletally immature patients. Walker RN, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):578–84

CLASSIFICATION

Stress fractures [letter; comment] Seo GS, et al. **Radiology** 1996 Dec;201(3):879. Comment on: Radiology 1996 Apr;199(1):1–12.

COMPLICATIONS

Malunion of the tibia secondary to stress fracture of the tibia and fibula. Beauchesne RP, et al. **Orthopedics** 1996 Dec; 19(12):1041–3

Painless stress fractures in diabetic neuropathic feet. Gill G, et al. **Postgrad Med J** 1997 Apr;73(858):241–2

Synovial effusions at the knee as the inaugural manifestation of stress fracture of the proximal tibia. Lassoued S, et al. **Rev Rhum Engl Ed** 1996 Jan;63(1):65–8

Stress fracture of the second rib as a cause of back pain. Nikkola-Sihto A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):103–5 (12 ref.)

Warfarin-induced spondyloarthropathy with pseudotumor-like appearance. A case report. Awwad EE, et al. **Spine** 1996 Aug 15;21(16):1936–8

[Complications related to the existence of a lunotriquetral synostosis] Kuhlmann JN, et al. **Acta Orthop Belg** 1996 Sep;62(3):161–4 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Stress osteopathy of the femoral head. 10 military recruits followed for 5–11 years. Visuri T. **Acta Orthop Scand** 1997 Apr;68(2):138–41

Resolution of abnormal MR signal intensity in patients with stress fractures of the femoral neck. Slocum KA, et al. **AJR Am J Roentgenol** 1997 May;168(5):1295–9

The superiority of magnetic resonance imaging in differentiating the cause of hip pain in endurance athletes. Shin AY, et al. **Am J Sports Med** 1996 Mar–Apr; 24(2):168–76

Sports medicine. Overuse injuries. Part 1: bone. Brukner P. **Aust Fam Physician** 1996 Apr;25(4):545–9

Stress fracture of the neck of the seventh and eighth ribs: a case report. Brukner P, et al. **Clin J Sport Med** 1996 Jul;6(3):204–6 (12 ref.)

Stress fracture of the ulnar diaphysis in a recreational golfer. Koskinen SK, et al. **Clin J Sport Med** 1997 Jan;7(1):63–5 (14 ref.)

Stress fracture of the talar body [letter; comment] Motto SG. **Clin J Sport Med** 1996 Oct;6(4):278–9. Comment on: Clin J Sport Med 1996 Jan;6(1):48–51.

Stress fracture of the clavicle in a collegiate diver. Waninger KN. **Clin J Sport Med** 1997 Jan;7(1):66–8 (9 ref.)

The use of MR imaging in the assessment and clinical management of stress reactions of bone in high-performance athletes. Arendt EA, et al. **Clin Sports Med** 1997 Apr;16(2):291–306 (15 ref.)

Imaging of stress injuries to bone. Radiography, scintigraphy, and MR imaging. Deutsch AL, et al. **Clin Sports Med** 1997 Apr;16(2):275–90 (29 ref.)

This is proper management? [letter; comment] Sanders SP. **Hosp Pract (Off Ed)** 1997 May 15;32(5):25–6. Comment on: Hosp Pract (Off Ed) 1997 Mar 15;32(3):243.

Stress fracture of the sternum in a golf player. Barbaix EJ. **Int J Sports Med** 1996 May;17(4):303–4

Imaging studies for diagnosing stress and insufficiency fractures. Brandser EA, et al. **Iowa Orthop J** 1996;16:70–8

Bilateral stress fractures of the tarsal navicular with associated avascular necrosis in a pole vaulter. Helstad PE, et al. **J Am Podiatr Med Assoc** 1996 Nov;86(11):551–4

Radiology case of the month. Hip and back pain in the elderly. Stress injury of bone. McCarthy K, et al. **J La State Med Soc** 1997 Jan;149(1):10–1

Diagnosis of occult stress fracture of the femoral neck. Neitzschman HR. **J La State Med Soc** 1996 May; 148(5):217–8

Diagnosis and treatment of stress fracture of the patella in athletes. Orava S, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(4):206–11

Imaging of pelvic insufficiency fractures. Peh WC, et al. **Radiographics** 1996 Mar;16(2):335–48

Truncated sciatica as the first manifestation of a fatigue fracture of the sacrum in a young male [letter] Lechevalier D, et al. **Rev Rhum Engl Ed** 1996 Jul–Sep;63(7–8):505 (11 ref.)

Diagnosis of longitudinal stress fracture of the tibia with multiplanar CT reformats: a case report. Junila J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):303–4

Insufficiency fractures of the pubic ramus. Schapira D, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):373–82 (62 ref.)

MR imaging of supra-acetabular insufficiency fractures. Otte MT, et al. **Skeletal Radiol** 1997 May;26(5):279–83

Stress fractures. Current concepts of diagnosis and treatment. Reeder MT, et al. **Sports Med** 1996 Sep;22(3):198–212 (109 ref.)

EPIDEMIOLOGY

Risk factors for stress fractures in track and field athletes. A twelve-month prospective study. Bennell KL, et al. **Am J Sports Med** 1996 Nov–Dec;24(6):810–8

Epidemiology and site specificity of stress fractures. Bennell KL, et al. **Clin Sports Med** 1997 Apr;16(2):179–96 (53 ref.)

Bone, exercise, and stress fractures. Burr DB. **Exerc Sport Sci Rev** 1997;25:171–94 (154 ref.)

Vacuum phenomena in the sacroiliac joints and in association with sacral insufficiency fractures. Incidence and significance. Peh WC, et al. **Spine** 1997 Sep 1;22(17):2005–8

[Epidemiology of stress fractures from an occupational health viewpoint] Bräunlich A, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec;134(6):553–61 (67 ref.) (Eng. Abstr.) **(Ger)**

ETIOLOGY

Three stress fractures at different sites in the same tibia—a case report. Ariyoshi M, et al. **Acta Orthop Scand** 1997 Aug;68(4):406–7

The incidence and distribution of stress fractures in competitive track and field athletes. A twelve-month prospective study. Bennell KL, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):211–7

Ulnar diaphyseal stress fracture in a bowler. Escher SA. **Am J Sports Med** 1997 May–Jun;25(3):412–3

Stress fracture of the proximal femur after screw removal. Velkes S, et al. **Arch Orthop Trauma Surg** 1996;115(1):61–2

Pedicular stress fracture in the lumbar spine. Chong VF, et al. **Australas Radiol** 1997 Aug;41(3):306–7

In vivo measurement of human tibial strains during vigorous activity. Burr DB, et al. **Bone** 1996 May;18(5):405–10

Models for the pathogenesis of stress fractures in athletes. Bennell KL, et al. **Br J Sports Med** 1996 Sep;30(3):200–4 (76 ref.)

Stress fracture of the proximal humeral epiphysis in an elite junior badminton player. Boyd KT, et al. **Br J Sports Med** 1997 Sep;31(3):252–3

Displaced stress fracture of the femoral neck in an active amenorrhoeic adolescent. Haddad FS, et al. **Br J Sports Med** 1997 Mar;31(1):70–2

Stress fracture of the scaphoid combined with the distal radial epiphysiolysis. Inagaki H, et al. **Br J Sports Med** 1997 Sep; 31(3):256–7

Sternal fracture in a female army officer cadet [letter] McCurdie I, et al. **Br J Sports Med** 1997 Jun;31(2):164

Manubrium sterni stress fracture: an unusual complication of non-contact sport. Robertsen K, et al. **Br J Sports Med** 1996 Jun;30(2):176–7

Avulsion injury of the serratus anterior: a case history. Gaffney KM. **Clin J Sport Med** 1997 Apr;7(2):134–6

Footwear and stress fractures. Frey C. **Clin Sports Med** 1997 Apr;16(2):249–57 (31 ref.)

Bone, exercise, and stress fractures. Burr DB. **Exerc Sport Sci Rev** 1997;25:171–94 (154 ref.)

Stress fracture of the tibia following extensive hindfoot and ankle arthrodesis: a report of three cases [letter; comment] Alvarez R. **Foot Ankle Int** 1996 Sep;17(9):583–4. Comment on: Foot Ankle Int 1995 Jul;16(7):445–8.

A study of intrinsic factors in patients with stress fractures of the tibia. Ekenman I, et al. **Foot Ankle Int** 1996 Aug; 17(8):477–82

Subtrochanteric stress fracture of the femur following total knee arthroplasty. Kumm DA, et al. **J Arthroplasty** 1997 Aug;12(5):580–3
Stress fracture of the tibia after arthrodesis of the ankle or the hindfoot. Lidor C, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):558–64
Fatigue failure of cancellous bone: a possible cause of implant migration and loosening. Taylor M, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):181–2 (18 ref.)
Bone microdamage and skeletal fragility in osteoporotic and stress fractures. Burr DB, et al. **J Bone Miner Res** 1997 Jan;12(1):6–15 (67 ref.)
Increased risk of stress fractures of the ribs in elite rowers. Christiansen E, et al. **Scand J Med Sci Sports** 1997 Feb; 7(1):49–52

PATHOLOGY

Longitudinal stress leg fracture in the elderly. Verlhac B. **Biomed Pharmacother** 1997;51(5):213–6
Scanning electron microscopy of human cortical bone failure surfaces. Braidotti P, et al. **J Biomech** 1997 Feb; 30(2):155–62
The anterior stress fracture of the tibia: an atrophic pseudoarthosis? Rolf C, et al. **Scand J Med Sci Sports** 1997 Aug;7(4):249–52
[Osteoporotic stress fractures of the sacrum: MR–tomography findings] Staatz G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):307–11 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Delayed union following stress fracture of the distal fibula secondary to rotational malunion of lateral malleolar fracture. Guille JT, et al. **Am J Orthop** 1997 Jun;26(6):442–5
Aging and matrix microdamage accumulation in human compact bone. Schaffler MB, et al. **Bone** 1995 Dec; 17(6):521–25
Artifactual nonlinearity due to wear grooves and friction in four–point bending experiments of cortical bone. Griffin LV, et al. **J Biomech** 1997 Feb;30(2):185–8
Decrease in canine proximal femoral ultimate strength and stiffness due to fatigue damage. Hoshaw SJ, et al. **J Biomech** 1997 Apr;30(4):323–9
Residual strength of equine bone is not reduced by intense fatigue loading: implications for stress fracture. Martin RB, et al. **J Biomech** 1997 Feb;30(2):109–14
Fracture toughness of bone using a compact sandwich specimen: effects of sampling sites and crack orientations. Wang X, et al. **J Biomed Mater Res** 1996 Spring;33(1):13–21

RADIOGRAPHY

Leg pain with a periosteal and endosteal reaction. Belzunegui J, et al. **Arthritis Rheum** 1997 Feb;40(2):385–7
Pedicular stress fracture in the lumbar spine. Chong VF, et al. **Australas Radiol** 1997 Aug;41(3):306–7
Stress fractures of the fibula in the first few years of life (report of six cases). Kozlowski K, et al. **Australas Radiol** 1996 Aug;40(3):261–3
Residents' corner. Answer to case of the month #45. Stress changes of the distal radial physis. Frizzell JB, et al. **Can Assoc Radiol J** 1997 Feb;48(1):54–5
Stress fracture of the body of the talus in athletes demonstrated with computer tomography [see comments] Bradshaw C, et al. **Clin J Sport Med** 1996 Jan;6(1):48–51 . Comment in: Clin J Sport Med 1996 Oct;6(4):278–9.
Transverse stress fracture of the patella: a case report. Mata SG, et al. **Clin J Sport Med** 1996 Oct;6(4):259–61
Stress fracture of the first metatarsal. Lucas MJ, et al. **Foot Ankle Int** 1997 Jun;18(6):373–4
Stress fractures in a hyperactive 3–year–old girl [letter] Mucklow ES, et al. **Lancet** 1997 Mar 22;349(9055):854
Longitudinal tibial stress fracture. Jeske JM, et al. **Orthopedics** 1996 Mar;19(3):263; 66; 68; 70
Diagnosis of trochanteric bursitis versus femoral neck stress fracture. Jones DL, et al. **Phys Ther** 1997 Jan;77(1):58–67
General case of the day. Longitudinal stress fracture of the left femoral diaphysis and stress reaction in the right femur. Stanley MD, et al. **Radiographics** 1997 Jul–Aug; 17(4):1007–10
[Fatigue rupture of a Harris–Galante shell in contact with an autograft of the femur head. Analysis of bone, mechanical and metallurgical factors] Migaud H, et al. **Acta Orthop Belg** 1996 Sep;62(3):168–72 (Eng. Abstr.) **(Fre)**
[Fatigue fracture of the superior tibial metaphyses] Vernis M, et al. **Arch Pediatr** 1996 Nov;3(11):1143–5 **(Fre)**
[What is your diagnosis? Stress fracture of the right iliac wing] Junod N, et al. **Schweiz Rundsch Med Prax** 1996 Nov 19;85(47):1499–501 **(Fre)**

RADIONUCLIDE IMAGING

Leg pain with a periosteal and endosteal reaction. Belzunegui J, et al. **Arthritis Rheum** 1997 Feb;40(2):385–7
Fifth metacarpal stress fracture in a female softball pitcher. Jowett AD, et al. **Clin J Sport Med** 1997 Jul;7(3):220–1
Stress changes in the ribs associated with ballet dancing. Bar–Sever Z, et al. **Clin Nucl Med** 1997 Apr;22(4):263–4
Sesamoids opened earlier and easier by bone imaging. Choe W. **Clin Nucl Med** 1997 Jul;22(7):506–7
Golfer's rib stress fracture (Duffer's fracture). Scintigraphic appearance. Goyal M, et al. **Clin Nucl Med** 1997 Jul; 22(7):503–4
Insufficiency fracture in the proximal radial shaft. Groshar D, et al. **Clin Nucl Med** 1997 Mar;22(3):179–80
Comparison of ultrasound examination with bone scintiscan in the diagnosis of stress fractures. Boam WD, et al. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):414–7

SURGERY

Intramedullary nailing for chronic tibial stress fractures. A review of five cases. Chang PS, et al. **Am J Sports Med** 1996 Sep–Oct;24(5):688–92
Diagnosis and treatment of stress fracture of the patella in athletes. Orava S, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(4):206–11

THERAPY

The effect of a pneumatic leg brace on return to play in athletes with tibial stress fractures. Swenson EJ Jr, et al. **Am J Sports Med** 1997 May–Jun;25(3):322–8
The use of MR imaging in the assessment and clinical management of stress reactions of bone in high–performance athletes. Arendt EA, et al. **Clin Sports Med** 1997 Apr;16(2):291–306 (15 ref.)
Stress fractures at the base of the second metatarsal in ballet dancers. O'Malley MJ, et al. **Foot Ankle Int** 1996 Feb; 17(2):89–94
Stress fractures. Current concepts of diagnosis and treatment. Reeder MT, et al. **Sports Med** 1996 Sep;22(3):198–212 (109 ref.)
[Conservative treatment of stress fractures of the tarsal navicular in athletes] Bojanic I, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(2):133–8 (Eng. Abstr.) **(Fre)**

ULTRASONOGRAPHY

Sacral stress fractures in long–distance runners. Eller DJ, et al. **Clin J Sport Med** 1997 Jul;7(3):222–5
Comparison of ultrasound examination with bone scintiscan in the diagnosis of stress fractures. Boam WD, et al. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):414–7

VETERINARY

Oblique views of the ilium and the scintigraphic appearance of stress fractures of the ilium [see comments] Hornof WJ, et al. **Equine Vet J** 1996 Sep;28(5):355–8. Comment in: Equine Vet J 1996 Sep;28(5):341–3.
The motto of necessity: imaging modalities for orthopaedic prognosis [editorial; comment] Pilsworth RC, et al. **Equine Vet J** 1996 Sep;28(5):341–3. Comment on: Equine Vet J 1996 Sep;28(5):356–8. Comment on: Equine Vet J 1996 Sep;28(5):410–5.
Follow–up of 28 horses with third metacarpal unicortical stress fractures following treatment with osteostixis. Hanie EA, et al. **Equine Vet J Suppl** 1992 Feb;(11):5–9
The use of radionuclide bone scanning in the diagnosis of tibial 'stress' fractures in the horse: a review of five cases. Pilsworth RC, et al. **Equine Vet J Suppl** 1988 Sep;(6):60–5
What is your diagnosis? Compression fracture of the 12th thoracic vertebra. Rhoads WS, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):755–6
In vitro fatigue behavior of the equine third metacarpus: remodeling and microcrack damage analysis. Martin RB, et al. **J Orthop Res** 1996 Sep;14(5):794–801

FRACTURES, UNUNITED

Nonunion of a fracture of the lateral malleolus: a case report and review of the literature [see comments] Rand N, et al. **Foot Ankle Int** 1997 Jan;18(1):50–2 (15 ref.). Comment in: Foot Ankle Int 1997 Jul;18(7):457.
In vitro femoral stiffness after femoral neck osteotomy and osteosynthesis with defined surgical errors. Hernefalk L, et al. **J Orthop Trauma** 1996;10(6):416–20

COMPLICATIONS

Chronic, painful ankle instability in skeletally immature athletes. Ununited osteochondral fractures of the distal fibula. Busconi BD, et al. **Am J Sports Med** 1996 Sep–Oct; 24(5):647–51
The natural history of scaphoid non–union. Radiographical and clinical analysis in 102 cases. Inoue G, et al. **Arch Orthop Trauma Surg** 1996;115(1):1–4
Non–union of the ulna in a ten–month–old child who had type–IV hereditary sensory neuropathy. A case report. Krettek C, et al. **J Bone Joint Surg Am** 1997 Aug; 79(8):1232–4

DIAGNOSIS

Role of magnetic resonance imaging in assessing factors affecting healing in scaphoid nonunions. Morgan WJ, et al. **Clin Orthop** 1997 Mar;(336):240–6

DRUG THERAPY

Dual use of silver for management of chronic bone infections and infected non–unions. Nand S, et al. **J Indian Med Assoc** 1996 Mar;94(3):91–5

ECONOMICS

The economics of treating tibia fractures. The cost of delayed unions. Heckman JD, et al. **Bull Hosp Jt Dis** 1997; 56(1):63–72 (26 ref.)
An analysis of the actual cost of tibial nonunions. Beaver R, et al. **J La State Med Soc** 1997 Jun;149(6):200–6

EPIDEMIOLOGY

Nonunion of a fracture of the lateral malleolus: a case report and review of literature [letter; comment] Lynn MD. **Foot Ankle Int** 1997 Jul;18(7):457. Comment on: Foot Ankle Int 1997 Jan;18(1):50–2.

ETIOLOGY

Treatment of established nonunions of Mitchell osteotomies. O'Malley MJ, et al. **Foot Ankle Int** 1997 Feb;18(2):77–80
Distal fracture with hypertrophic non–union: a complication of Seidel humeral nail. Cheng J, et al. **Injury** 1997 Apr; 28(3):223–6
Nonunion rates of limited carpal arthrodesis: a meta–analysis of the literature. Larsen CF, et al. **J Hand Surg [Am]** 1997 Jan;22(1):66–73

PATHOLOGY

Connective tissue parameters in experimental nonunion. Hietaniemi K, et al. **J Orthop Trauma** 1996;10(2):114–8
Microstructural features of non–union of human humeral shaft fracture. Wen HB, et al. **J Struct Biol** 1997 Aug; 119(3):239–46

PHYSIOPATHOLOGY

Delayed union following stress fracture of the distal fibula secondary to rotational malunion of lateral malleolar fracture. Guille JT, et al. **Am J Orthop** 1997 Jun;26(6):442–5
Spontaneous healing of a massive tibial cortical defect. Klein DM, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):133–5

RADIOGRAPHY

Nonunion of a distal femoral epiphyseal fracture–separation. Goldberg BA, et al. **Am J Orthop** 1996 Nov;25(11):773–7
Time–dependent changes of insufficiency fractures of the sacrum: intraosseous vacuum phenomenon as an early sign. Stäbler A, et al. **Eur Radiol** 1996;6(5):655–7
Calcaneal malunions: results of a prognostic computed tomography classification system. Stephens HM, et al. **Foot Ankle Int** 1996 Jul;17(7):395–401
Nonunion of a distal radial fracture in a healthy child. Kwa S, et al. **J Hand Surg [Br]** 1997 Apr;22(2):175–7

RADIONUCLIDE IMAGING

Functional bone imaging in the detection of ischemic osteopathies. MacLeod MA, et al. **Clin Nucl Med** 1997 Jan; 22(1):1–5

SURGERY

Ununited proximal pole scaphoid fractures. Treatment with a Herbert screw in 16 cases followed for 0.5–8 years. Inoue G, et al. **Acta Orthop Scand** 1997 Apr;68(2):124–7
Management of infected defect nonunion of the metacarpals. Ebraheim NA, et al. **Am J Orthop** 1997 May;26(5):362–4
Limb revascularization to stimulate bone fracture healing. Prêtre R, et al. **Am Surg** 1997 Sep;63(9):836–8
Seidel locked nailing for the treatment of unstable fractures and nonunion of the humerus. Corradi M, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):189–95 **(Eng, Ita)**
Aseptic nonunion of the tibia treated by intramedullary osteosynthesis. Gualdrini G, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):275–8 **(Eng, Ita)**
Gamma nailing for the treatment of subtrochanteric nonunion: two clinical cases. Prosperi P, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):213–6 (10 ref.) **(Eng, Ita)**
Microsurgical treatment of septic nonunion of the tibia. Quality of life results. Bowen CV, et al. **Clin Orthop** 1996 Nov;(332):52–61
Blade plate reconstruction of metaphyseal nonunion of the tibia. Carpenter CA, et al. **Clin Orthop** 1996 Nov;(332):23–8
Exchange reamed intramedullary nailing for delayed union and nonunion of the tibia [letter] Levin PE. **Clin Orthop** 1996 Nov;(332):304–5
Combined muscle flap and Ilizarov reconstruction for bone and soft tissue defects. Lowenberg DW, et al. **Clin Orthop** 1996 Nov;(332):37–51
Recalcitrant nonunion. Ring D, et al. **Clin Orthop** 1997 Jul; (340):181–9
Revision ankle fusion using internal compression arthrodesis with screw fixation [published erratum appears in Foot Ankle Int 1997 Jun;18(6):379] Anderson JG, et al. **Foot Ankle Int** 1997 May;18(5):300–9
Autogenous bone grafting of hallux sesamoid nonunions. Anderson RB, et al. **Foot Ankle Int** 1997 May;18(5):293–6
Results of ankle arthrodesis for treatment of supramalleolar nonunion and ankle arthrosis. Marsh JL, et al. **Foot Ankle Int** 1997 Mar;18(3):138–43
Repair of talar neck nonunion with indirect corticocancellous graft technique: a case report and review of the literature. Migues A, et al. **Foot Ankle Int** 1996 Nov;17(11):690–4 (28 ref.)
Treatment of established nonunions of Mitchell osteotomies.

O'Malley MJ, et al. **Foot Ankle Int** 1997 Feb;18(2):77–80
Late reconstruction after pelvic ring injuries. Gautier E, et al. **Injury** 1996;27 Suppl 2:B39–46 (24 ref.)
Tibial reconstruction by ipsilateral vascularized fibular transfer. Khan MZ, et al. **Injury** 1996 Nov;27(9):651–4
An unorthodox method of removing a Küntscher nail. Ting P, et al. **Injury** 1996 Dec;27(10):750–2
Complications of internal fixation of proximal humeral fractures. Connor PM, et al. **Instr Course Lect** 1997; 46:25–37 (114 ref.)
Reconstruction femoral nailing for nonunion of subtrochanteric fracture: a revision technique following dynamic condylar screw failure. Charnley GJ, et al. **Int Orthop** 1996;20(1):55–7
An implant of a composite of bovine bone morphogenetic protein and plaster of paris for treatment of femoral shaft nonunions. Bai MH, et al. **Int Surg** 1996 Oct–Dec; 81(4):390–2
Osteosynthesis for the treatment of non-union of the lateral humeral condyle in children. Shimada K, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):234–40
Non-union of the scaphoid. Treatment with cannulated screws compared with treatment with Herbert screws. Trumble TE, et al. **J Bone Joint Surg Am** 1996 Dec; 78(12):1829–37
The Ilizarov method in nonunion, malunion and infection of fractures. Marsh DR, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):273–9
Complex nonunion of fractures of the femoral shaft treated by wave-plate osteosynthesis. Ring D, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):289–94
Management of nonunion of fractures by distraction with correction of angulation and shortening. Saleh M, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):105–9
The use of bone grafts in the management of nonunions. Mendicino SS, et al. **J Foot Ankle Surg** 1996 Sep–Oct; 35(5):452–7 (23 ref.)
Classification and treatment of ulnar styloid nonunion. Hauck RM, et al. **J Hand Surg [Am]** 1996 May;21(3):418–22
A modification for the insertion of the Herbert screw in the fractured or nonunited scaphoid. Heaps RJ, et al. **J Hand Surg [Am]** 1996 Sep;21(5):922–4
Repeat screw stabilization with bone grafting after a failed Herbert screw fixation for acute scaphoid fractures and nonunions. Inoue G, et al. **J Hand Surg [Am]** 1997 May; 22(3):413–8
Apparent and partial non-union of the scaphoid. Barton NJ. **J Hand Surg [Br]** 1996 Aug;21(4):496–500
Experience with scaphoid grafting. Barton NJ. **J Hand Surg [Br]** 1997 Apr;22(2):153–60
Treatment of scaphoid nonunions with a vascularized bone graft based on the first dorsal metacarpal artery. Yuceturk A, et al. **J Hand Surg [Br]** 1997 Jun;22(3):425–7
Management of humeral nonunion after the failure of locking intramedullary nails [letter; comment] Johnson KO. **J Orthop Trauma** 1997 Apr;11(3):238–9. Comment on: J Orthop Trauma 1996;10(7):492–9.
Management of humeral nonunion after the failure of locking intramedullary nails [see comments] McKee MD, et al. **J Orthop Trauma** 1996;10(7):492–9. Comment in: J Orthop Trauma 1997 Apr;11(3):238–9.
Nonunion of distal radial fractures associated with distal ulnar shaft fractures: a report of four cases. McKee MD, et al. **J Orthop Trauma** 1997 Jan;11(1):49–53 (16 ref.)
The use of endosteal substitution in the treatment of recalcitrant nonunions of the femur: report of seven cases. Matelic TM, et al. **J Orthop Trauma** 1996;10(1):1–6
Distal tibial nonunion treated by intramedullary reaming with external immobilization. Wu CC, et al. **J Orthop Trauma** 1996;10(1):45–9
Open fractures of the tibia and femur in children. Robertson P, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):621–6
Treatment of humeral diaphyseal nonunions in patients with severely compromised bone. Wright TW. **J South Orthop Assoc** 1997 Spring;6(1):1–7
Open reduction and internal fixation with bone grafting of clavicular nonunion. Ebraheim NA, et al. **J Trauma** 1997 Apr;42(4):701–4
Treatment of femoral shaft aseptic nonunions: comparison between closed and open bone-grafting techniques. Wu CC, et al. **J Trauma** 1997 Jul;43(1):112–6
Peroneal osteocutaneous flap raised on reconstructed popliteal artery for delayed union following open tibial fractures. Saitoh S, et al. **Microsurgery** 1996;17(4):230–7
Evaluation of Herbert screw fixation for the treatment of displaced scaphoid nonunions. Feldman MD, et al. **Orthopedics** 1997 Apr;20(4):325–8
Tibial diaphyseal nonunions after external fixation treated with nonreamed solid core nails. Riemer BL, et al. **Orthopedics** 1996 Feb;19(2):109–16
[Pseudarthrosis of the capitate bone. Report of 2 cases] D'Hondt B, et al. **Handchir Mikrochir Plast Chir** 1997 Jan; 29(1):27–31 (Eng. Abstr.) **(Ger)**
[Infected pseudarthrosis] Ekkernkamp A, et al. **Unfallchirurg** 1996 Dec;99(12):914–24 (61 ref.) (Eng. Abstr.) **(Ger)**
[The use of extraoral compression–distraction osteosynthesis in treating patients with mandibular fractures with posttraumatic defects and complicated by a suppurative process] Diuriagin NM, et al. **Stomatologiia (Mosk)** 1996; Spec No:54 **(Rus)**

THERAPY

Delayed union and nonunion of tibial shaft fractures. Goulet JA, et al. **Instr Course Lect** 1997;46:281–91 (100 ref.)
Treatment of delayed and nonunion of the patella. Klassen JF, et al. **J Orthop Trauma** 1997 Apr;11(3):188–94
Nonunited carpal scaphoid fracture in a child: treatment with pulsed electromagnetic field stimulation. Godley DR. **Orthopedics** 1997 Aug;20(8):718–9

ULTRASONOGRAPHY

Closed removal of a segmental intramedullary rod: a technical report. Randall RL, et al. **J Orthop Trauma** 1996; 10(5):363–5

FRAGILE SITES, CHROMOSOME see **CHROMOSOME FRAGILE SITES**

FRAGILE X SYNDROME

Survey of the fragile X syndrome and the fragile X E syndrome in a special education needs population. Meadows KL, et al. **Am J Med Genet** 1996 Aug 9; 64(2):428–33
Experiences and attitudes concerning genetic testing and insurance in a Colorado population: a survey of families diagnosed with fragile X syndrome. Wingrove KJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):378–81
Fragile X syndrome. Why is it important? Cohen J. **Aust Fam Physician** 1997 Mar;26(3):273–4
The fragile X syndrome. Hoogeveen AT, et al. **J Inherit Metab Dis** 1997 Jun;20(2):139–51 (57 ref.)
Normal respiratory pattern during sleep in young fragile X-syndrome patients [letter] Musumeci SA, et al. **J Sleep Res** 1996 Dec;5(4):272
[Fragile X syndrome] Fujimoto M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):208–10 (14 ref.) **(Jpn)**

COMPLICATIONS

Fragile X, iron, and neurodevelopmental screening in 8 year old children with mild to moderate learning difficulties. Corrigan N, et al. **Arch Dis Child** 1997 Mar;76(3):264–7
Investigating children with mild to moderate learning difficulties [letter] Gringras P. **Arch Dis Child** 1997 Aug; 77(2):185–6
Brief report: the association between autism and fragile X syndrome: a case report. Lenti C, et al. **J Autism Dev Disord** 1995 Dec;25(6):655–62
Fragile X: treatment of hyperactivity [letter; comment] Hagerman R. **Pediatrics** 1997 May;99(5):753. Comment on: Pediatrics 1996 Aug;98(2 Pt 1):297–300.
[Fragile X syndrome and mental retardation] Estévez-González A, et al. **Rev Neurol** 1997 Jul; 25(143):1068–71 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Combined molecular and cytogenetic analysis for the rapid diagnosis of fragile X syndrome. Bussani Mastellone C, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):165–8
Screening and diagnosis for the fragile X syndrome among the mentally retarded: an epidemiological and psychological survey. Collaborative Fragile X Study Group. de Vries BB, et al. **Am J Hum Genet** 1997 Sep; 61(3):660–7
Prenatal diagnosis and carrier screening for fragile X by PCR. Brown WT, et al. **Am J Med Genet** 1996 Jul 12;64(1):191–5
Prenatal diagnosis of 30 fetuses at risk for fragile X syndrome. Grasso M, et al. **Am J Med Genet** 1996 Jul 12;64(1):187–90
Molecular fragile X screening in normal populations. Spence WC, et al. **Am J Med Genet** 1996 Jul 12;64(1):181–3
Chromosome deletion 17p11.2 (Smith–Magenis syndrome) in seven new patients, four of whom had been referred for fragile-X investigation. Behjati F, et al. **Clin Genet** 1997 Jan;51(1):71–4
Perspectives and molecular diagnosis of the fragile X syndrome. Brown WT. **Clin Lab Med** 1995 Dec; 15(4):859–75 (74 ref.)
A five-year experience with fragile X testing. Setting laboratory standards of practice and a cost-effective protocol. Marini T, et al. **Diagn Mol Pathol** 1997 Jun; 6(3):161–6
The fragile X syndrome. Szot M. **Folia Histochem Cytobiol** 1997;35(3):135–41 (48 ref.)
Rapid antibody test for diagnosing fragile X syndrome: a validation of the technique. Willemsen R, et al. **Hum Genet** 1997 Mar;99(3):308–11
ACOG committee opinion. Fragile X syndrome. American College of Obstetricians and Gynecologists Committee on Genetics. **Int J Gynaecol Obstet** 1996 Feb;52(2):209–10
Rapid antibody test for prenatal diagnosis of fragile X syndrome on amniotic fluid cells: a new appraisal. Willemsen R, et al. **J Med Genet** 1997 Mar;34(3):250–1
A simplified six-item checklist for screening for fragile X syndrome in the pediatric population. Giangreco CA, et al. **J Pediatr** 1996 Oct;129(4):611–4
Prenatal diagnosis of fragile X syndrome [letter] Willemsen R, et al. **Lancet** 1996 Oct 5;348(9032):967–8
Fragile X syndrome and fragile XE mental retardation. Sutherland GR, et al. **Prenat Diagn** 1996 Dec; 16(13):1199–211 (63 ref.)
Reliability and validity of MRI measurement of the amygdala and hippocampus in children with fragile X syndrome. Kates WR, et al. **Psychiatry Res** 1997 Aug 8;75(1):31–48
Fragile X syndrome. Molecular and clinical insights and treatment issues [see comments] Hagerman RJ. **West J Med** 1997 Feb;166(2):129–37 (122 ref.). Comment in: West J Med 1997 Feb;166(2):150–1.
[Fragile X syndrome (letter)] Beauvais P. **Arch Pediatr** 1997 Feb;4(2):195 **(Fre)**
[Fragile X syndrome is still unrecognized: efficacy of molecular diagnosis in mentally retarded probands] Cossée M, et al. **Arch Pediatr** 1997 Mar;4(3):227–36 (Eng. Abstr.) **(Fre)**
[Molecular biology of fragile X syndrome: recent data and diagnostic applications] Mornet E, et al. **Arch Pediatr** 1996 Aug;3(8):814–21 (37 ref.) (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Screening and diagnosis for the fragile X syndrome among the mentally retarded: an epidemiological and psychological survey. Collaborative Fragile X Study Group. de Vries BB, et al. **Am J Hum Genet** 1997 Sep; 61(3):660–7
Frequency of Fra X syndrome among institutionalized mentally retarded males in Poland. Mazurczak T, et al. **Am J Med Genet** 1996 Jul 12;64(1):184–6
Informed choice in fragile X syndrome and its effects on prevalence. Robinson H, et al. **Am J Med Genet** 1996 Jul 12;64(1):198–202
Prevalence of fragile X syndrome. Turner G, et al. **Am J Med Genet** 1996 Jul 12;64(1):196–7
Fragile X syndrome in India [letter] Kar B. **J Indian Med Assoc** 1997 Mar;95(3):91
Fragile X syndrome is less common than previously estimated. Morton JE, et al. **J Med Genet** 1997 Jan; 34(1):1–5
Screening for fragile X syndrome: information needs for health planners. Murray J, et al. **J Med Screen** 1997; 4(2):60–94 (301 ref.)

ETHNOLOGY

Predisposition to the fragile X syndrome in Jews of Tunisian descent is due to the absence of AGG interruptions on a rare Mediterranean haplotype. Falik-Zaccai TC, et al. **Am J Hum Genet** 1997 Jan;60(1):103–12
Fragile X syndrome occurs in the South African black population [editorial] Goldman A, et al. **S Afr Med J** 1997 Apr;87(4):418–20

GENETICS

Analysis of unstable DNA sequence in FMR1 gene in Polish families with fragile X syndrome. Milewski M, et al. **Acta Biochim Pol** 1996;43(2):383–8
Analysis of triplet repeats of the FRAXA locus using a novel sequencing procedure. Barlati S, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):285–8
Diagnosis and prevention of fragile-X syndrome. From the family study to the population screening programme: eighteen years of activity. Giovannucci Uzielli ML, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):303–8
FRAXA and FRAXE: new tools for the diagnosis of mental retardation. Murgia A, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):295–7
Fragile X syndrome in humans and mice. Oostra BA. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):93–108 (79 ref.)
Expansion and methylation status at FRAXE can be detected on EcoRI blots used for FRAXA diagnosis: analysis of four FRAXE families with mild mental retardation in males. Biancalana V, et al. **Am J Hum Genet** 1996 Oct; 59(4):847–54
Predisposition to the fragile X syndrome in Jews of Tunisian descent is due to the absence of AGG interruptions on a rare Mediterranean haplotype. Falik-Zaccai TC, et al. **Am J Hum Genet** 1997 Jan;60(1):103–12
FRAXE testing [letter] Holinski-Feder E, et al. **Am J Hum Genet** 1996 Nov;59(5):1168–9
Familial transmission of the FMR1 CGG repeat. Nolin SL, et al. **Am J Hum Genet** 1996 Dec;59(6):1252–61
Characterization of FMR1 promoter elements by in vivo-footprinting analysis. Schwemmle S, et al. **Am J Hum Genet** 1997 Jun;60(6):1354–62
Cognitive, behavioral, and neuroanatomical assessment of two unrelated male children expressing FRAXE. Abrams MT, et al. **Am J Med Genet** 1997 Feb 21;74(1):73–81
Tissue-specific methylation differences and cognitive function in fragile X premutation females. Allingham-Hawkins DJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):329–33
New findings in the behavioral profile of young FraX females. Borghgraef M, et al. **Am J Med Genet** 1996 Aug 9;64(2):346–9
Reverse mutations in the fragile X syndrome. Brown WT, et al. **Am J Med Genet** 1996 Aug 9;64(2):287–92
Normal age of menarche in fragile X syndrome [letter] Burgess B, et al. **Am J Med Genet** 1996 Aug 9;64(2):376
An assay for X inactivation based on differential methylation at the fragile X locus, FMR1. Carrel L, et al. **Am J Med Genet** 1996 Jul 12;64(1):27–30
Significance of linkage disequilibrium between the fragile X locus and its flanking markers [editorial] Chiurazzi P, et

al. **Am J Med Genet** 1996 Jul 12;64(1):203–8 (50 ref.)

Fragile X founder chromosomes in Italy: a few initial events and possible explanation for their heterogeneity. Chiurazzi P, et al. **Am J Med Genet** 1996 Jul 12;64(1):209–15

Mosaicism for the FMR1 gene influences adaptive skills development in fragile X–affected males. Cohen IL, et al. **Am J Med Genet** 1996 Aug 9;64(2):365–9

The fragile X phenotype in a mosaic male with a deletion showing expression of the FMR1 protein in 28% of the cells. de Graaff E, et al. **Am J Med Genet** 1996 Aug 9; 64(2):302–8

Tissue differences in fragile X mosaics: mosaicism in blood cells may differ greatly from skin. Dobkin CS, et al. **Am J Med Genet** 1996 Aug 9;64(2):296–301

Rater reliability of fragile X mutation size estimates: a multilaboratory analysis. Fisch GS, et al. **Am J Med Genet** 1996 Aug 9;64(2):319–22

Lack of association between mutation size and cognitive/behavior deficits in fragile X males: a brief report. Fisch GS, et al. **Am J Med Genet** 1996 Aug 9; 64(2):362–4

Fragile–X carrier females: evidence for a distinct psychopathological phenotype? Franke P, et al. **Am J Med Genet** 1996 Aug 9;64(2):334–9

Fragile X syndrome in two siblings with major congenital malformations. Giampietro PF, et al. **Am J Med Genet** 1996 May 17;63(2):396–400

Premutation for the Martin–Bell syndrome analyzed in a large Sardinian family: III. Molecular analysis with the StB12.3 probe. Grasso M, et al. **Am J Med Genet** 1996 Aug 9;64(2):283–6

A rapid, reliable, and inexpensive method for detection of di– and trinucleotide repeat markers and disease loci from dried blood spots. Holden JJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):313–8

Successful pregnancy in a fragile X carrier by donor egg [letter] Howard–Peebles PN. **Am J Med Genet** 1996 Aug 9;64(2):377

Segregation of the fragile X mutation from a male with a full mutation: unusual somatic instability in the FMR–1 locus. Kambouris M, et al. **Am J Med Genet** 1996 Aug 9;64(2):404–7

Transgenic mouse model for the fragile X syndrome. Kooy RF, et al. **Am J Med Genet** 1996 Aug 9;64(2):241–5

A fragile X male with a broad smear on Southern blot analysis representing 100–500 CGG repeats and no methylation at the EagI site of the FMR–1 gene. Lachiewicz AM, et al. **Am J Med Genet** 1996 Aug 9; 64(2):278–82

A fragile X mosaic male with a cryptic full mutation detected in epithelium but not in blood. Maddalena A, et al. **Am J Med Genet** 1996 Aug 9;64(2):309–12

Deletion in the FMR1 gene in a fragile–X male. Mannermaa A, et al. **Am J Med Genet** 1996 Aug 9;64(2):293–5

Do mothers of dizygotic twins have earlier menopause? A role for fragile X? [letter] Martin NG, et al. **Am J Med Genet** 1997 Mar 3;69(1):114–6

Neuropsychological profiles of three sisters homozygous for the fragile X premutation. Mazzocco MM, et al. **Am J Med Genet** 1996 Aug 9;64(2):323–8

Molecular–clinical correlations in males with an expanded FMR1 mutation. Merenstein SA, et al. **Am J Med Genet** 1996 Aug 9;64(2):388–94

The number of CGG repeats of the FMR1 locus in premutated and fully mutated heterozygotes and their offspring: implications for the origin of mosaicism. Mingroni–Netto RC, et al. **Am J Med Genet** 1996 Aug 9;64(2):270–3

Confirmation of early menopause in fragile X carriers. Partington MW, et al. **Am J Med Genet** 1996 Aug 9; 64(2):370–2

Molecular and cytogenetic analysis of the fragile X syndrome in a series of 453 mentally retarded subjects: a study of 87 families. Perroni L, et al. **Am J Med Genet** 1996 Jul 12;64(1):176–80

Fragile X mutation and FG syndrome–like phenotype. Piussan C, et al. **Am J Med Genet** 1996 Aug 9;64(2):395–8

Fragile X syndrome in incestuous families [letter] Seemanová E. **Am J Med Genet** 1996 Nov 11;65(4):355–6

Examination of factors that influence the expansion of the fragile X mutation in a sample of conceptuses from known carrier females. Sherman SL, et al. **Am J Med Genet** 1996 Aug 9;64(2):256–60

Molecular/clinical correlations in females with fragile X. Sobesky WE, et al. **Am J Med Genet** 1996 Aug 9; 64(2):340–5

Expanding the role of the genetic counselor. Staley–Gane L, et al. **Am J Med Genet** 1996 Aug 9;64(2):382–7

Molecular–intelligence correlations in young fragile X males with a mild CGG repeat expansion in the FMR1 gene. Steyaert J, et al. **Am J Med Genet** 1996 Aug 9;64(2):274–7

Evidence for high–risk haplotypes and (CGG)n expansion in fragile X syndrome in the Hellenic population of Greece and Cyprus. Syrrou M, et al. **Am J Med Genet** 1996 Jul 12;64(1):234–8

Seventh International Workshop on the Fragile X and X–linked Mental Retardation. Tranebjaerg L, et al. **Am J Med Genet** 1996 Jul 12;64(1):1–14

FRAXA premutation associated with premature ovarian failure. Vianna–Morgante AM, et al. **Am J Med Genet** 1996 Aug 9;64(2):373–5

Transmission electron microscopy of chromosomes by longitudinal section preparation: application to fragile X chromosome analysis. Wen GY, et al. **Am J Med Genet** 1997 Feb 11;68(4):445–9

DNA methylation and triplet repeat stability: new proposals addressing actual questions on the CGG repeat of fragile X syndrome [letter] Wöhrle D, et al. **Am J Med Genet** 1996 Aug 9;64(2):266–7

A survey of FRAXE allele sizes in three populations. Zhong N, et al. **Am J Med Genet** 1996 Aug 9;64(2):415–9

Fragile X "gray zone" alleles: AGG patterns, expansion risks, and associated haplotypes. Zhong N, et al. **Am J Med Genet** 1996 Aug 9;64(2):261–5

Fragile X founder effects and new mutations in Finland. Zhong N, et al. **Am J Med Genet** 1996 Jul 12;64(1):226–33

Variation of the CGG repeat in FMR–1 gene in normal and fragile X Chinese subjects. Chen TA, et al. **Ann Clin Biochem** 1997 Sep;34 (Pt 5):517–20

The frequency of chromosomal abnormalities in patients referred for fragile X analysis. Mark HF, et al. **Ann Clin Lab Sci** 1996 Jul–Aug;26(4):323–8

Trinucleotide repeat expansion and human disease. Ashley CT Jr, et al. **Annu Rev Genet** 1995;29:703–28 (206 ref.)

Fragile X studies and authorship [letter; comment] [published erratum appears in Arch Med Res 1997 Spring;28(1):149] Rivera H. **Arch Med Res** 1996 Winter;27(4):587–8. Comment on: Arch Med Res 1995;26 Spec No:S77–83.

Unusual inheritance patterns due to dynamic mutation in fragile X syndrome. Sutherland GR, et al. **Ciba Found Symp** 1996;197:119–26; discussion 126–36 (53 ref.)

Routine clinical application of the FRAXA Pfu PCR assay: limits and utility. Condorelli DF, et al. **Clin Genet** 1996 Nov;50(5):366–71

"Reduction" of CGG trinucleotide expansion from mother to offspring in seven fragile–X families. Loesch DZ, et al. **Clin Genet** 1997 Jan;51(1):1–6

The molecular basis of fragile X syndrome. Eberhart DE, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:679–87 (74 ref.)

Molecular characterization of the protein products of the fragile X syndrome gene and the survival of motor neurons gene. Liu Q, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:689–97 (57 ref.)

Fragile X syndrome. Chakrabarti L, et al. **Curr Opin Neurol** 1997 Apr;10(2):142–7 (64 ref.)

Trinucleotide repeat disorders in pediatrics. O'Donnell DM, et al. **Curr Opin Pediatr** 1995 Dec;7(6):715–25 (54 ref.)

Behavioural phenotypes and family stress in three mental retardation syndromes. Sarimski K. **Eur Child Adolesc Psychiatry** 1997 Mar;6(1):26–31

Trinucleotide repeat disorders in humans: discussions of mechanisms and medical issues. Timchenko LT, et al. **FASEB J** 1996 Dec;10(14):1589–97 (70 ref.)

The fragile X syndrome. Szot M. **Folia Histochem Cytobiol** 1997;35(3):135–41 (48 ref.)

A further whole arm 1;19 translocation with alpha–satellite DNA breakage. Diaz–Castaños L, et al. **Genet Couns** 1997; 8(1):33–8

Ovarian function in fragile X carriers [editorial] Fryns JP. **Genet Couns** 1996;7(4):245–7 (14 ref.)

Macrocephaly, hypospadias grade III–IV, and fragile X–like behavior in identical twins without involvement of the FMR–1 gene. Fryns JP, et al. **Genet Couns** 1996;7(3):227–30

Cytogenetic and fragile X molecular testing of individuals with mental retardation of unknown etiology. Patsalis PC, et al. **Genet Couns** 1997;8(1):1–6

Trinucleotide repetition and fragile X syndrome. Warren ST. **Hosp Pract (Off Ed)** 1997 Apr 15;32(4):73–6, 81–5, 90–2 passim (0 ref.)

Trinucleotide repeats (CGG)22TGG(CGG)43TGG(CGG)21 from the fragile X gene remain stable in transgenic mice. Lavedan CN, et al. **Hum Genet** 1997 Sep;100(3–4):407–14

Recurrent and unexpected segregation of the FMR1 CGG repeat in a family with fragile X syndrome. Mornet E, et al. **Hum Genet** 1996 Apr;97(4):512–5

Deletions in Xq26.3–q27.3 including FMR1 result in a severe phenotype in a male and variable phenotypes in females depending upon the X inactivation pattern. Wolff DJ, et al. **Hum Genet** 1997 Aug;100(2):256–61

A candidate gene for mild mental handicap at the FRAXE fragile site. Chakrabarti L, et al. **Hum Mol Genet** 1996 Feb; 5(2):275–82

Haplotype and interspersion analysis of the FMR1 CGG repeat identifies two different mutational pathways for the origin of the fragile X syndrome. Eichler EE, et al. **Hum Mol Genet** 1996 Mar;5(3):319–30

FMR2 expression in families with FRAXE mental retardation. Gécz J, et al. **Hum Mol Genet** 1997 Mar; 6(3):435–41

Analysis of germline variation at the FMR1 CGG repeat shows variation in the normal–premutated borderline range. Mornet E, et al. **Hum Mol Genet** 1996 Jun;5(6):821–5

Transition from premutation to full mutation in fragile X syndrome is likely to be prezygotic. Moutou C, et al. **Hum Mol Genet** 1997 Jul;6(7):971–9

The role of size, sequence and haplotype in the stability of FRAXA and FRAXE alleles during transmission. Murray A, et al. **Hum Mol Genet** 1997 Feb;6(2):173–84

Population screening at the FRAXA and FRAXE loci: molecular analyses of boys with learning difficulties and their mothers. Murray A, et al. **Hum Mol Genet** 1996 Jun; 5(6):727–35

Autistic behaviors among girls with fragile X syndrome. Mazzocco MM, et al. **J Autism Dev Disord** 1997 Aug; 27(4):415–35

Nucleosome assembly on methylated CGG triplet repeats in the fragile X mental retardation gene 1 promoter. Godde JS, et al. **J Biol Chem** 1996 Oct 4;271(40):24325–8

Methylation of expanded CCG triplet repeat DNA from fragile X syndrome patients enhances nucleosome exclusion. Wang YH, et al. **J Biol Chem** 1996 Sep 20; 271(38):22937–40

Fragile–X: neuropsychological test performance, CGG triplet repeat lengths, and hippocampal volumes. Jäkälä P, et al. **J Clin Invest** 1997 Jul 15;100(2):331–8

The recognition and investigation of X–linked learning disability syndromes. Feldman EJ. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):400–11 (77 ref.)

Clinical, cytogenetic, and molecular analysis of three families with FRAXE. Barnicoat AJ, et al. **J Med Genet** 1997 Jan; 34(1):13–7

Variable FMR1 gene methylation of large expansions leads to variable phenotype in three males from one fragile X family. de Vries BB, et al. **J Med Genet** 1996 Dec; 33(12):1007–10 (20 ref.)

X inactivation of the FMR1 fragile X mental retardation gene. Kirchgessner CU, et al. **J Med Genet** 1995 Dec; 32(12):925–9

FMR1 fully expanded mutation with minimal methylation in a high functioning fragile X male [letter; comment] Loesch DZ. **J Med Genet** 1997 Apr;34(4):350. Comment on: J Med Genet 1996 May;33(5):376–8.

FRAXF in a patient with chromosome 8 duplication. Vianna–Morgante AM, et al. **J Med Genet** 1996 Jul; 33(7):611–4

Screening for fragile X syndrome: information needs for health planners. Murray J, et al. **J Med Screen** 1997; 4(2):60–94 (301 ref.)

An association between precocious puberty and fragile X syndrome? Kowalczyk CL, et al. **J Pediatr Adolesc Gynecol** 1996 Nov;9(4):199–202

Genes for Prader Willi syndrome/Angelman syndrome and fragile X syndrome are homologous, with genetic imprinting and unstable trinucleotide repeats causing mental retardation, autism and aggression. Fischer KM. **Med Hypotheses** 1996 Oct;47(4):289–98

Characterization of the full fragile X syndrome mutation in fetal gametes. Malter HE, et al. **Nat Genet** 1997 Feb; 15(2):165–9

Epilepsy and fragile X gene mutations. Kluger G, et al. **Pediatr Neurol** 1996 Nov;15(4):358–60

Fragile X syndrome and fragile XE mental retardation. Sutherland GR, et al. **Prenat Diagn** 1996 Dec; 16(13):1199–211 (63 ref.)

A variable domain of delayed replication in FRAXA fragile X chromosomes: X inactivation–like spread of late replication. Hansen RS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4587–92

Linkage analysis of the fragile X gene FMR–1 and schizophrenia: no evidence for linkage but report of a family with schizophrenia and an unstable triplet repeat. Ashworth A, et al. **Psychiatr Genet** 1996 Summer;6(2):81–6

Influence of depression on cognitive functioning in Fragile X females. Thompson NM, et al. **Psychiatry Res** 1996 Sep 27;64(2):97–104

Fragile X syndrome occurs in the South African black population [editorial] Goldman A, et al. **S Afr Med J** 1997 Apr;87(4):418–20

Nuclease sensitivity of permeabilized cells confirms altered chromatin formation at the fragile X locus. Eberhart DE, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):435–41

Trinucleotide–repeat expansion diseases [letter] Hannan AJ. **Trends Neurosci** 1997 Aug;20(8):349

A fragile enterprise [editorial; comment] Shapiro LJ. **West J Med** 1997 Feb;166(2):150–1. Comment on: West J Med 1997 Feb;166(2):129–37.

[Detection of FMR–1 gene expression by RT–PCR] Zheng L, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1995 Dec; 17(6):407–11 (Eng. Abstr.) **(Chi)**

[Molecular biology of fragile X syndrome: recent data and diagnostic applications] Mornet E, et al. **Arch Pediatr** 1996 Aug;3(8):814–21 (37 ref.) (Eng. Abstr.) **(Fre)**

[Genetics of Fragile X syndrome and its prevention] Boué J, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997; 26(3):273–9 (12 ref.) (Eng. Abstr.) **(Fre)**

[The importance of molecular genetic diagnosis of Martin–Bell disease in genetic counseling] Horváth M, et al. **Orv Hetil** 1997 Mar 2;138(9):541–5 (Eng. Abstr.) **(Hun)**

[Molecular basis of triplet repeat diseases: genetic instability and unusual DNA structure] Shimizu M. **Tanpakushitsu Kakusan Koso** 1997 Mar;42(4):619–31 (35 ref.) **(Jpn)**

[Inter–generational transmission of mutations responsible for fragile X syndrome] Milewski M, et al. **Pediatr Pol** 1996 Mar;71(3):191–6 (Eng. Abstr.) **(Pol)**

[The fragile X chromosome syndrome: DNA analysis in families with familial occurrence of mental retardation] Poláková H, et al. **Bratisl Lek Listy** 1997 Mar;98(3):150–6 (Eng. Abstr.) **(Slo)**

[Last advances in Fragile X chromosome syndrome] Bañares VG. **Medicina (B Aires)** 1995;55(5 Pt 1):457–66 (59 ref.)

FRAGILE X SYNDROME

(Eng. Abstr.) **(Spa)**
[Molecular and genetic features of fragile X syndrome] Jara L, et al. **Rev Med Chil** 1996 Jul;124(7):865–72 (49 ref.) (Eng. Abstr.) **(Spa)**

METABOLISM

The fragile X mental retardation protein is a ribonucleoprotein containing both nuclear localization and nuclear export signals. Eberhart DE, et al. **Hum Mol Genet** 1996 Aug;5(8):1083–91
The solution structure of the first KH domain of FMR1, the protein responsible for the fragile X syndrome [letter] Musco G, et al. **Nat Struct Biol** 1997 Sep;4(9):712–6

PATHOLOGY

Abnormal dendritic spines in fragile X knockout mice: maturation and pruning deficits. Comery TA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5401–4

PHYSIOPATHOLOGY

Long-term potentiation in the hippocampus of fragile X knockout mice. Godfraind JM, et al. **Am J Med Genet** 1996 Aug 9;64(2):246–51
Transgenic mouse model for the fragile X syndrome. Kooy RF, et al. **Am J Med Genet** 1996 Aug 9;64(2):241–5
Fragile X: clinical associations [letter] Loesch DZ. **Am J Med Genet** 1996 Aug 9;64(2):413–4
Longer brainstem auditory evoked response latencies of individuals with fragile X syndrome related to sedation. Miezejeski CM, et al. **Am J Med Genet** 1997 Apr 18; 74(2):167–71
Confirmation of early menopause in fragile X carriers. Partington MW, et al. **Am J Med Genet** 1996 Aug 9; 64(2):370–2
Adult fragile X syndrome: neuropsychology, brain anatomy, and metabolism. Schapiro MB, et al. **Am J Med Genet** 1995 Dec 18;60(6):480–93
[Electroencephalographic study of hyperactivity in children] Gorbachevskaia NL, et al. **Fiziol Cheloveka** 1996 Sep–Oct; 22(5):49–55 **(Rus)**
[Brain bioelectrical activity in patients with the fragile X-chromosome syndrome and in their mothers] Gorbachevskaia NL, et al. **Zh Nevrol Psikhiatr Im S S Korsakova** 1997;97(8):33–7 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Should all pregnant women be offered carrier testing for fragile X syndrome? Finucane B. **Clin Obstet Gynecol** 1996 Dec;39(4):772–82 (21 ref.)
The social dynamics of genetic testing: the case of Fragile-X. Nelkin D. **Med Anthropol Q** 1996 Dec;10(4):537–50
[Genetics of Fragile X syndrome and its prevention] Boué J, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997; 26(3):273–9 (12 ref.) (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Tissue-specific methylation differences and cognitive function in fragile X premutation females. Allingham-Hawkins DJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):329–33
New findings in the behavioral profile of young FraX females. Borghgraef M, et al. **Am J Med Genet** 1996 Aug 9;64(2):346–9
Mosaicism for the FMR1 gene influences adaptive skills development in fragile X-affected males. Cohen IL, et al. **Am J Med Genet** 1996 Aug 9;64(2):365–9
Lack of association between mutation size and cognitive/behavior deficits in fragile X males: a brief report. Fisch GS, et al. **Am J Med Genet** 1996 Aug 9; 64(2):362–4
Longitudinal study of cognitive abilities and adaptive behavior levels in fragile X males: a prospective multicenter analysis. Fisch GS, et al. **Am J Med Genet** 1996 Aug 9; 64(2):356–61
Fragile-X carrier females: evidence for a distinct psychopathological phenotype? Franke P, et al. **Am J Med Genet** 1996 Aug 9;64(2):334–9
Carrier testing in the fragile X syndrome: attitudes and opinions of obligate carriers. McConkie-Rosell A, et al. **Am J Med Genet** 1997 Jan 10;68(1):62–9
Neuropsychological profiles of three sisters homozygous for the fragile X premutation. Mazzocco MM, et al. **Am J Med Genet** 1996 Aug 9;64(2):323–8
Molecular-clinical correlations in males with an expanded FMR1 mutation. Merenstein SA, et al. **Am J Med Genet** 1996 Aug 9;64(2):388–94
Molecular/clinical correlations in females with fragile X. Sobesky WE, et al. **Am J Med Genet** 1996 Aug 9; 64(2):340–5
Molecular-intelligence correlations in young fragile X males with a mild CGG repeat expansion in the FMR1 gene. Steyaert J, et al. **Am J Med Genet** 1996 Aug 9;64(2):274–7
A controlled study of longitudinal IQ changes in females and males with fragile X syndrome. Wright-Talamante C, et al. **Am J Med Genet** 1996 Aug 9;64(2):350–5
Trajectories and profiles of adaptive behavior in males with fragile X syndrome: multicenter studies. Dykens E, et al. **J Autism Dev Disord** 1996 Jun;26(3):287–301
Fragile-X: neuropsychological test performance, CGG triplet repeat lengths, and hippocampal volumes. Jäkälä P, et al. **J Clin Invest** 1997 Jul 15;100(2):331–8

FRAGILITAS OSSIUM see **OSTEOGENESIS IMPERFECTA**

FRAIL ELDERLY

see related
HEALTH SERVICES FOR THE AGED
HOMEBOUND PERSONS

Injuries sustained by caregivers of disabled elderly people. Brown AR, et al. **Age Ageing** 1997 Jan;26(1):21–3
Is the typical modern house designed for future adaptation for disabled older people? Frain JP, et al. **Age Ageing** 1996 Sep;25(5):398–401
Factors affecting contrasting results between self-reported and performance-based levels of physical limitation. Kempen GI, et al. **Age Ageing** 1996 Nov;25(6):458–64
Predicting delirium in elderly patients: development and validation of a risk-stratification model. O'Keeffe ST, et al. **Age Ageing** 1996 Jul;25(4):317–21
The role of the physician in geriatric medicine in the ageing society. In collaboration with orthopaedic surgeons. Reid J. **Age Ageing** 1994;23 Suppl 3:S31–3
Exercise in frail elderly men decreases natural killer cell activity. Rincón HG, et al. **Aging (Milano)** 1996 Apr; 8(2):109–12
APOE genotype influences functional status among elderly without dementia. Albert SM, et al. **Am J Med Genet** 1995 Dec 18;60(6):583–7
For all the Dorothys. Wisner CL. **Am J Nurs** 1996 Nov; 96(11):54
The impact of payor/provider type on health care use and expenditures among the frail elderly. Experton B, et al. **Am J Public Health** 1997 Feb;87(2):210–6
Physical activity, functional limitations, and the risk of fall-related fractures in community-dwelling elderly. Stevens JA, et al. **Ann Epidemiol** 1997 Jan;7(1):54–61
Community institutional care for frail elderly people [editorial] Black D, et al. **BMJ** 1997 Aug 23; 315(7106):441–2
Old, frail people are marginalised in Japan [letter; comment] Iliffe S. **BMJ** 1997 Feb 15;314(7079):519. Comment on: BMJ 1996 Nov 2;313(7065):1133–5.
Effect of psychogeriatric team on depression in frail elderly people at home. Results may have been due to intervention by a specialist [letter; comment] Pinner G, et al. **BMJ** 1997 Feb 1;314(7077):378. Comment on: BMJ 1996 Oct 26;313(7064):1058–61.
Effect of psychogeriatric team on depression in frail elderly people at home. More information is needed on subjects and interventions in study [letter; comment] Walters R, et al. **BMJ** 1997 Feb 1;314(7077):377; discussion 378. Comment on: BMJ 1996 Oct 26;313(7064):1058–61.
Safety and side effects of i.v. immunoglobulin therapy. Nydegger UE. **Clin Exp Rheumatol** 1996 May-Jun;14 Suppl 15:S53–7 (20 ref.)
Elderly, poor at risk for costly dental illnesses [news] **CMAJ** 1997 Jul 15;157(2):127
Evaluation of a self-report screening instrument to predict frailty outcomes in aging populations. Brody KK, et al. **Gerontologist** 1997 Apr;37(2):182–91
Measuring the adequacy of home care for frail elders. Capitman J, et al. **Gerontologist** 1997 Jun;37(3):303–13
Composition of the home care service package: predictors of type, volume, and mix of services provided to poor and frail older people. Diwan S, et al. **Gerontologist** 1997 Apr; 37(2):169–81
Retrain, don't restrain: the educational intervention of the National Nursing Home Restraint Removal Project. Dunbar JM, et al. **Gerontologist** 1996 Aug;36(4):539–42
Pharmaceutical care for home-dwelling elderly persons: a determination of need and program description. Hunter KA, et al. **Gerontologist** 1996 Aug;36(4):543–8
Medicaid-funded home care for the frail elderly and disabled: evaluating the cost savings and outcomes of a service delivery reform [see comments] Feldman PH, et al. **Health Serv Res** 1996 Oct;31(4):489–508. Comment in: Health Serv Res 1996 Oct;31(4):509–13.
Improving care and constraining costs: evaluating New York City's cluster care demonstration [comment] [see comments] Hornbrook MC. **Health Serv Res** 1996 Oct; 31(4):509–13. Comment on: Health Serv Res 1996 Oct;31(4):489–508. Comment in: Health Serv Res 1997 Apr;32(1):123–5.
PACE: a model of integrated acute and long-term care [editorial] Kane RL. **Hosp Pract (Off Ed)** 1997 Apr 15; 32(4):23–4, 27, 30
Population-based, genetically informative sample for studies of physical frailty and aging: black elderly twin study. Miles TP. **Hum Biol** 1997 Feb;69(1):107–20
Pain in frail, elderly women after surgery. Zalon ML. **Image J Nurs Sch** 1997 Spring;29(1):21–6
The safety of older pedestrians at signal-controlled crossings. Harrell WA. **Int J Aging Hum Dev** 1996;42(1):65–79
Equity/inequity and patterns of guardianship of older persons. Keith PM. **Int J Aging Hum Dev** 1996;43(2):155–68
Psychological distress among informal supporters of frail older people at home and in institutions. The Resource Implications Study Group of the MRC Cognitive Function and Ageing Study. Buck D, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):737–44
Health maintenance for the independent frail older adult: can it improve physical and mental well-being? Dungan JM, et al. **J Adv Nurs** 1996 Jun;23(6):1185–93
Do we practice geriatric cardiology? [editorial] Parmley WW. **J Am Coll Cardiol** 1997 Jan;29(1):217–8
General surgical care in the nursing home patient: results of a dedicated geriatric surgery consult service. Zenilman ME, et al. **J Am Coll Surg** 1996 Oct;183(4):361–70
Physical restraints in geriatric care in Sweden: prevalence and patient characteristics. Karlsson S, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1348–54
The relative importance of strength and balance in chair rise by functionally impaired older individuals. Schenkman M, et al. **J Am Geriatr Soc** 1996 Dec;44(12):1441–6
The role of strength in rising from a chair in the functionally impaired elderly. Hughes MA, et al. **J Biomech** 1996 Dec; 29(12):1509–13
Risk factors for fecal incontinence in a nursing home population. Johanson JF, et al. **J Clin Gastroenterol** 1997 Apr;24(3):156–60
Selection of children to provide care: the effect of earlier parental transfers. Henretta JC, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:110–9
The division of family labor: care for elderly parents. Wolf DA, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May; 52 Spec No:102–9
Obturator hernia revisited: a review of 12 cases in 7 years. Chung CC, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):82–4
Chair rise strategy in the functionally impaired elderly. Hughes MA, et al. **J Rehabil Res Dev** 1996 Oct; 33(4):409–12
The obstacle course: a tool for the assessment of functional balance and mobility in the elderly. Means KM. **J Rehabil Res Dev** 1996 Oct;33(4):413–29
An 85-year-old woman with a history of falls, 1 year later [comment] Delbanco TL, et al. **JAMA** 1997 Mar 26; 277(12):996. Comment on: JAMA 1996 Jul 3;276(1):59–66.
Patterns of orthostatic blood pressure change and their clinical correlates in a frail, elderly population. Ooi WL, et al. **JAMA** 1997 Apr 23–30;277(16):1299–304
External hip protectors to prevent osteoporotic hip fractures [letter] Ekman A, et al. **Lancet** 1997 Aug 23; 350(9077):563–4
"Stops walking when talking" as a predictor of falls in elderly people [letter] [see comments] Lundin-Olsson L, et al. **Lancet** 1997 Mar 1;349(9052):617. Comment in: Lancet 1997 Apr 19;349(9059):1180.
Evidence of enhanced type 2 immune response and impaired upregulation of a type 1 response in frail elderly nursing home residents. Castle S, et al. **Mech Ageing Dev** 1997 Mar; 94(1-3):7–16
Non-syncopal falls in the elderly in relation to home environments. Northridge ME, et al. **Osteoporos Int** 1996; 6(3):249–55
Patterns of coping preferences for male and female caregivers of frail older adults. DeVries HM, et al. **Psychol Aging** 1997 Jun;12(2):263–7
Correlates of participation in adult day care and quality of life in ambulatory frail elderly in Japan. Hashizume Y, et al. **Public Health Nurs** 1996 Dec;13(6):404–15
The art and science of targeting geriatrics programs [letter; comment] Wieland D. **Scand J Soc Med** 1997 Mar;25(1):1–3 . Comment on: Scand J Soc Med 1997 Mar;25(1):4–7.
Setting limits and long-term care of the frail elderly [editorial] Nusbaum N. **South Med J** 1997 Feb;90(2):256–60
Unanticipated results of continuity of care research with the elderly--Part 1: Design issues. Anderson MA, et al. **West J Nurs Res** 1997 Jun;19(3):406–13
A study of the effects of tamoxifen in the frail elderly: difficulties encountered in nursing home research. Breuer B, et al. **Women Health** 1997;25(1):37–51
[The effect of disability of the aged patient on the level of caregiving burden by the family] Topinková E, et al. **Cas Lek Cesk** 1997 Feb 12;136(4):111–4 (Eng. Abstr.) **(Cze)**
[Measuring the burden for carers of dependent elderly with the Zarit inventory] Bocquet H, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):57–65 (Eng. Abstr.) **(Fre)**
[What treatment expectations does the elderly patient have from surgery and what can surgery achieve? From the viewpoint of joint surgery] Pfister U. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:439–43 (9 ref.) (Eng. Abstr.) **(Ger)**
[Vascular reconstruction and/or amputation in severely handicapped patients] Schwilden ED. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:866–9 (Eng. Abstr.) **(Ger)**
[Goals in rehabilitation: assessment and outcome evaluation] Meier-Baumgartner HP, et al. **Ther Umsch** 1997 Jun; 54(6):337–9 (22 ref.) (Eng. Abstr.) **(Ger)**
[Prescription for aids and using aids after geriatric rehabilitation--do we prescribe the proper aids? (published erratum appears in Z Gerontol Geriatr 1996 Sep-Oct;29(5):382)] Krause D, et al. **Z Gerontol Geriatr** 1996 Jul-Aug;29(4):267–72 (Eng. Abstr.) **(Ger)**
[Ergonomically suitable technology (editorial)] Olbrich E, et al. **Z Gerontol Geriatr** 1996 Jul-Aug;29(4):236–7 **(Ger)**
[Age-adaptable to any age] Philippen DP.

Z Gerontol Geriatr 1996 Jul-Aug;29(4):238-45 (Eng. Abstr.) **(Ger)**

[Nursing care in the area of inpatient geriatric services] Schneekloth U. **Z Gerontol Geriatr** 1997 Mar-Apr; 30(2):163-72 (Eng. Abstr.) **(Ger)**

[Frailty as a preclinical disability in the elderly] Shats V, et al. **Harefuah** 1996 Sep;131(5-6):200-5 (47 ref.) **(Heb)**

[Longitudinal study on association between care conditions and mortality among frail elderly living at home] Ueda T, et al. **Nippon Koshu Eisei Zasshi** 1996 Jul;43(7):563-9 (Eng. Abstr.) **(Jpn)**

[The risk of surgical treatment in elderly patients] Swiątkowski J. **Wiad Lek** 1994 Nov-Dec;47(21-24):836-9 (Eng. Abstr.) **(Pol)**

PSYCHOLOGY

Religiosity as a protective or prognostic factor of depression in later life; results from a community survey in The Netherlands. Braam AW, et al. **Acta Psychiatr Scand** 1997 Sep;96(3):199-205

Suicidal thoughts and associated factors in an elderly population. Forsell Y, et al. **Acta Psychiatr Scand** 1997 Feb; 95(2):108-11

Competence thresholds for the use of inhalers in people with dementia. Allen SC. **Age Ageing** 1997 Mar;26(2):83-6

Reported activities of daily living: agreement between elderly subjects with and without dementia and their caregivers. Ostbye T, et al. **Age Ageing** 1997 Mar;26(2):99-106

Fear of falling and restriction of mobility in elderly fallers. Vellas BJ, et al. **Age Ageing** 1997 May;26(3):189-93

Proxy reporting in five areas of functional status. Comparison with self-reports and observations of performance. Magaziner J, et al. **Am J Epidemiol** 1997 Sep 1; 146(5):418-28

Sky above clouds. Mental health in later life [editorial] Cohen GD. **Am J Geriatr Psychiatry** 1997 Winter;5(1):1-3

Randomised controlled trial of effect of intervention by psychogeriatric team on depression in frail elderly people at home [see comments] Banerjee S, et al. **BMJ** 1996 Oct 26;313(7064):1058-61. Comment in: BMJ 1997 Feb 1;314(7077):377; discussion 378. Comment in: BMJ 1997 Feb 1;314(7077):378. Comment in: ACP J Club 1997 May-Jun;126(3):66.

Anxiety and depression in elderly patients receiving treatment for cerebral tumours. Kaplan CP, et al. **Brain Inj** 1997 Feb;11(2):129-35

Re: The use of selective serotonin reuptake inhibitors in the elderly [letter; comment] Flint AJ. **Can J Psychiatry** 1997 Apr;42(3):321-3. Comment on: Can J Psychiatry 1996 Oct;41(8):535-6.

Why do the elderly seek or avoid care? A qualitative analysis. Koval M, et al. **Fam Med** 1996 May;28(5):352-7

Between stressors and outcomes: can we simplify caregiving process variables? Braithwaite V. **Gerontologist** 1996 Feb; 36(1):42-53

An orientation to vision loss program: meeting the needs of newly visually impaired older adults. Kleinschmidt JJ. **Gerontologist** 1996 Aug;36(4):534-8

Validity studies of the filial anxiety scale. Murray PD, et al. **Gerontologist** 1996 Feb;36(1):110-2

Measuring child work and residence adjustments to parents' long-term care needs. Stern S. **Gerontologist** 1996 Feb; 36(1):76-87

SES and ethnic differences in perceived caregiver availability among young-old Mexican Americans and non-Hispanic whites. Talamantes MA, et al. **Gerontologist** 1996 Feb; 36(1):88-99

Internal resourcefulness, task demands, coping, and dysphoric affect among caregivers of the frail elderly. Fingerman KL, et al. **Int J Aging Hum Dev** 1996;42(3):229-48

Preparation for caregiving: a study of multigeneration families. Sörensen S, et al. **Int J Aging Hum Dev** 1996; 42(1):43-63

Factors affecting quality of life of the Korean aged stroke patients. Yoon H. **Int J Aging Hum Dev** 1997;44(3):167-81

Depression in older medical inpatients: one-year course and outcome. Fenton FR, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):389-94

Suicidal thinking in community residents over eighty. Rao R, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):337-43

Squalor syndrome and psychogeriatric admissions. Shaw T, et al. **Int Psychogeriatr** 1996 Winter;8(4):669-74

Predictors of perceived health in hospitalized older persons: a cross-sectional and longitudinal study. Kim SH, et al. **J Am Geriatr Soc** 1997 Apr;45(4):420-6

Uncommon courage. Stein HF. **J Fam Pract** 1996 Sep; 43(3):215-6

Measuring the perception of choices in the nursing home. Brooke VM, et al. **J Nurs Meas** 1996 Winter;4(2):103-15

Long-term care residents' preferences for health states on the quality of well-being scale. Hays RD, et al. **Med Decis Making** 1996 Jul-Sep;16(3):254-61

Stimulus complexity in reminiscence therapy and scores on the Beck Depression Inventory of a small group of nursing-home residents. Bass BA, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):973-4

Social relations and depressive symptomatology in a sample of community-dwelling French older adults. Antonucci TC, et al. **Psychol Aging** 1997 Mar;12(1):189-95

What do older good and poor sleepers do during periods of nocturnal wakefulness? The Sleep Behaviors Scale: 60+. Libman E, et al. **Psychol Aging** 1997 Mar;12(1):170-82

Coping strategies of people living in multigenerational households: effects on well-being. Pruchno RA, et al. **Psychol Aging** 1997 Mar;12(1):115-24

Where two roles intersect: spillover between parent care and employment. Stephens MA, et al. **Psychol Aging** 1997 Mar; 12(1):30-7

Impairment, disability and handicap as risk factors for depression in old age. The Gospel Oak Project V. Prince MJ, et al. **Psychol Med** 1997 Mar;27(2):311-21

Social support deficits, loneliness and life events as risk factors for depression in old age. The Gospel Oak Project VI. Prince MJ, et al. **Psychol Med** 1997 Mar;27(2):323-32

Assisting older family members: association with marital and relationship satisfaction. Griffore RJ. **Psychol Rep** 1997 Aug;81(1):335-6

Perceptions by adult children of elderly parents' needs. Halpern J, et al. **Psychol Rep** 1996 Apr;78(2):571-7

Self-esteem and caregivers' attitudes toward elderly persons. Merrill JM, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1349-50

Assisting older adults with severe disabilities in expressing leisure preferences: a protocol for determining choice-making skills. Parsons MB, et al. **Res Dev Disabil** 1997 Mar-Apr;18(2):113-26

Knowing when to say goodbye: Final Exit and suicide in the elderly [see comments] Lerner BH. **Suicide Life Threat Behav** 1995 Winter;25(4):508-12; discussion 513-8. Comment in: Suicide Life Threat Behav 1996 Fall;26(3):323.

[Sexuality in old age homes--a taboo zone (interview by Beatrice Wagner)] Landerer-Hock C. **Fortschr Med** 1997 May 30;115(15):36-7 **(Ger)**

[Limits of geriatric surgery--where are they, can they be defined?] Schreiber HW. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:457-66 (74 ref.) (Eng. Abstr.) **(Ger)**

[Changes in the concept of aging and what it involves] Stelzner F. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:444-7 (Eng. Abstr.) **(Ger)**

STATISTICS & NUMERICAL DATA

Morbidity and disability in elderly Zimbabweans. Allain TJ, et al. **Age Ageing** 1997 Mar;26(2):115-21

Activities of daily living: changes in functional ability in three samples of elderly and very elderly people. Bowling A, et al. **Age Ageing** 1997 Mar;26(2):107-14

Health status and disability among elderly people in three UK districts. Lyons RA, et al. **Age Ageing** 1997 May; 26(3):203-9

The performance of simple instruments in detecting geriatric conditions and selecting community-dwelling older people for geriatric assessment. Maly RC, et al. **Age Ageing** 1997 May;26(3):223-31

Decreasing disability in the 21st century: the future effects of controlling six fatal and nonfatal conditions. Boult C, et al. **Am J Public Health** 1996 Oct;86(10):1388-93

US trends in disability and institutionalization among older Blacks and Whites [see comments] Clark DO. **Am J Public Health** 1997 Mar;87(3):438-40. Comment in: Am J Public Health 1997 Mar;87(3):333-4.

Disability in activities of daily living: patterns of change and a hierarchy of disability. Dunlop DD, et al. **Am J Public Health** 1997 Mar;87(3):378-83

Characteristics of older pedestrians who have difficulty crossing the street [see comments] Langlois JA, et al. **Am J Public Health** 1997 Mar;87(3):393-7. Comment in: Am J Public Health 1997 Mar;87(3):331-2.

Predicting future long-term-care needs in a community. Salmoni AW, et al. **Can J Public Health** 1996 Nov-Dec; 87(6):418-21

Trends, issues, perspectives, and values for the aging of the baby boom cohorts. Cornman JM, et al. **Gerontologist** 1996 Feb;36(1):15-26 (70 ref.)

Can data from the decennial census measure trends in mobility limitation among the aged? Shrestha LB, et al. **Gerontologist** 1996 Feb;36(1):106-9

Co-morbidity analysis: a strategy for understanding mortality, disability and use of health care facilities of older people. Cornoni-Huntley JC, et al. **Int J Epidemiol** 1991; 20 Suppl 1:S8-17 (19 ref.)

The prevalence of potentially remediable urinary incontinence in frail older people: a study using the Minimum Data Set. Brandeis GH, et al. **J Am Geriatr Soc** 1997 Feb;45(2):179-84

Frailty and hospitalization of long-term stay nursing home residents [see comments] Fried TR, et al. **J Am Geriatr Soc** 1997 Mar;45(3):265-9. Comment in: J Am Geriatr Soc 1997 Mar;45(3):378-9.

Transitions in health care use and expenditures among frail older adults by payor/provider type [see comments] Pearlman DN, et al. **J Am Geriatr Soc** 1997 May; 45(5):550-7. Comment in: J Am Geriatr Soc 1997 May;45(5):645-6.

Influenza vaccination of health care workers in long-term-care hospitals reduces the mortality of elderly patients [see comments] Potter J, et al. **J Infect Dis** 1997 Jan;175(1):1-6. Comment in: ACP J Club 1997 Jul-Aug;127(1):1.

Hospital diagnoses, Medicare charges, and nursing home admissions in the year when older persons become severely disabled [see comments] Ferrucci L, et al. **JAMA** 1997 Mar 5;277(9):728-34. Comment in: JAMA 1997 Jul 23-30;278(4):287-8. Comment in: ACP J Club 1997 Jul-Aug;127(1):19.

[Information on the disabled and dependent people in France] Mormiche P. **Cah Sociol Demogr Med** 1996 Oct-Dec; 36(4):317-55 (Eng. Abstr.) **(Fre)**

[Long-term changes in availability of domestic nursing care based on family structure changes--a model calculation] Dinkel RH, et al. **Gesundheitswesen** 1997 Apr;59 Suppl 1:49-54 (Eng. Abstr.) **(Ger)**

[Assessment of need for nursing care] Gilgen R. **Ther Umsch** 1997 Jun;54(6):351-5 (18 ref.) (Eng. Abstr.) **(Ger)**

[Functional disability in the elderly: epidemiologic aspects] Pientka L. **Ther Umsch** 1997 Jun;54(6):298-302 (Eng. Abstr.) **(Ger)**

[Nursing research in geriatric nursing. A study of the literature based on 2 scientific specialty periodicals] Flügel K. **Z Gerontol Geriatr** 1996 Nov-Dec;29(6):397-403 (11 ref.) (Eng. Abstr.) **(Ger)**

[Surgery in elderly patients] Klein S, et al. **Zentralbl Chir** 1996;121(1):8-13 (Eng. Abstr.) **(Ger)**

[What is the prevalence of elderly persons at high risk in primary care?] Cortés Rubio JA, et al. **Aten Primaria** 1996 Oct 15;18(6):327-30 (Eng. Abstr.) **(Spa)**

[Functional capacity in those over 60 and related social health factors (the ANCO Project for the Aged of Cordoba)] Espejo Espejo J, et al. **Aten Primaria** 1997 Jun 15;20(1):3-11 (Eng. Abstr.) **(Spa)**

FRAIL OLDER ADULTS see **FRAIL ELDERLY**

FRAMBESIA see **YAWS**

FRAMESHIFT MUTATION

Ankyrin Bugey: a de novo deletional frameshift variant in exon 6 of the ankyrin gene associated with spherocytosis. Morlé L, et al. **Am J Hematol** 1997 Mar;54(3):242-8

Frameshift CD 11 (-T) beta-thalassemia mutation [letter; comment] Villegas A, et al. **Am J Hematol** 1997 Mar; 54(3):265-6. Comment on: Am J Hematol 1996 Mar;51(3):240-2.

Partial correction of a severe molecular defect in hemophilia A, because of errors during expression of the factor VIII gene. Young M, et al. **Am J Hum Genet** 1997 Mar; 60(3):565-73

Transforming growth factor-beta receptor type 2 mutations and microsatellite instability in sporadic colorectal adenomas and carcinomas. Samowitz WS, et al. **Am J Pathol** 1997 Jul;151(1):33-5

A Japanese family carrying a novel mutation in the Emery-Dreifuss muscular dystrophy gene. Ichikawa Y, et al. **Ann Neurol** 1997 Mar;41(3):399-402

Programmed translational frameshifting. Farabaugh PJ. **Annu Rev Genet** 1996;30:507-28 (113 ref.)

NorA plasmid resistance to fluoroquinolones: role of copy number and norA frameshift mutations. Sun L, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1665-9

Growth dominance of a revertant virus generated during in vitro serial passage of nef frameshift mutant of HIV-1. Fujinaga K, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):96-101

Familial erythrocytosis associated with a short deletion in the erythropoietin receptor gene. Arcasoy MO, et al. **Blood** 1997 Jun 15;89(12):4628-35

Muir-Torre syndrome: clinical features and molecular genetic analysis. Esche C, et al. **Br J Dermatol** 1997 Jun; 136(6):913-7

First description of a frameshift mutation in the alpha1-globin gene associated with alpha-thalassaemia. Ayala S, et al. **Br J Haematol** 1997 Jul;98(1):47-50

A common frameshift mutation in von Willebrand factor does not alter mRNA stability but interferes with normal propeptide processing. Mohlke KL, et al. **Br J Haematol** 1996 Oct;95(1):184-91

Ovarian cancer genomic instability correlates with p53 frameshift mutations. Sood AK, et al. **Cancer Res** 1997 Mar 15;57(6):1047-9

Mutational specificity of aflatoxin B1. Comparison of in vivo host-mediated assay with in vitro S9 metabolic activation. Prieto-Alamo MJ, et al. **Carcinogenesis** 1996 Sep; 17(9):1997-2002

Mechanisms of frameshift mutations: insight from aromatic amines. Hoffmann GR, et al. **Chem Res Toxicol** 1997 Apr; 10(4):347-59

Frameshift mutagenesis induced in Escherichia coli after in vitro treatment of double-stranded DNA with methylene blue plus white light: evidence for the involvement of lesion(s) other than 8-oxo-7,8-dihydro-2'-deoxyguanosine. Wagner J, et al. **Chem Res Toxicol** 1997 May;10(5):568-74

A novel mutation causing complete deficiency of thyroxine binding globulin [see comments] Ueta Y, et al. **Clin Endocrinol (Oxf)** 1997 Jul;47(1):1-5. Comment in: Clin Endocrinol (Oxf) 1997 Jul;47(1):7-8.

Starvation for a specific amino acid induces high frequencies of rho- mutants in Saccharomyces cerevisiae. Heidenreich E, et al. **Curr Genet** 1997 May;31(5):408-13

Enhancement of frame-shift mutation by the overproduction of msDNA in Escherichia coli. Mao JR, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):109-15

Mutations and alternative splicing of the BRCA1 gene in UK breast/ovarian cancer families. Xu CF, et al. **Genes Chromosomes Cancer** 1997 Feb;18(2):102-10

Two novel missense and frameshift mutations in exons 5 and 6 of the purine nucleoside phosphorylase (PNP) gene in a severe combined immunodeficiency (SCID) patient. Pannicke U, et al. **Hum Genet** 1996 Dec;98(6):706–9

Carrier and prenatal diagnosis of X–linked severe combined immunodeficiency: mutation detection methods and utilization. Puck JM, et al. **Hum Genet** 1997 May; 99(5):628–33

Identification of a four–base deletion (delTCAT296–299) in the dihydropyrimidine dehydrogenase gene with variable clinical expression. Vreken P, et al. **Hum Genet** 1997 Aug; 100(2):263–5

Frameshift mutation in the survival motor neuron gene in a severe case of SMA type I. Brahe C, et al. **Hum Mol Genet** 1996 Dec;5(12):1971–6

New frameshift mutation, insertion of A, at codon 95 of the beta–globin gene causes beta–thalassemia in two Vietnamese families. Cai S, et al. **Hum Mutat** 1996; 8(3):293–4

Identification of three novel frameshift mutations (83delAT, 754insCT, and 435 + 1G to A) of mitochondrial acetoacetyl–coenzyme A thiolase gene in two Swiss patients with CRM–negative beta–ketothiolase deficiency. Fukao T, et al. **Hum Mutat** 1997;9(3):277–9

Frameshift mutation at codon 642 of the hMLH1 gene in human endometrial cancer. Fukushige S, et al. **Hum Mutat** 1996;8(4):394–5

Three new mutations (P183T, V150L, 528insG) and eleven sequence polymorphisms in Italian patients with galactose–1–phosphate uridyltransferase (GALT) deficiency. Maceratesi P, et al. **Hum Mutat** 1996; 8(4):369–72

New frameshift mutation in the DAX–1 gene in a patient with X–linked adrenal hypoplasia and hypogonadotropic hypogonadism. Meloni A, et al. **Hum Mutat** 1996; 8(2):183–4

Three new mutations of the pyruvate dehydrogenase alpha subunit: a point mutation (M181V), 3 bp deletion (–R282), and 16 bp insertion/frameshift (K358SVS—>TVDQS). Tripatara A, et al. **Hum Mutat** 1996;8(2):180–2

Identification of a frameshift mutation resulting in premature termination and loss of cell wall anchoring of the PAc antigen of Streptococcus mutans GS–5. Murakami Y, et al. **Infect Immun** 1997 Feb;65(2):794–7

The V(D)J recombination defect in the xrs–6 cell line results from a point mutation in the Ku80 gene. Mizuta R, et al. **Int Immunol** 1996 Sep;8(9):1467–71

Conserved region mutations of the p53 gene are concentrated in distal colorectal cancers. Jernvall P, et al. **Int J Cancer** 1997 Feb 20;74(1):97–101

p53 mutation spectrum in Japanese Bowen's disease suggests a role for mutagens other than ultraviolet light. Takata M, et al. **Int J Cancer** 1997 May 2;71(3):370–2

A frame shift mutation in a hot spot region of the nuclear autoantigen La (SS–B). Bachmann M, et al. **J Autoimmun** 1996 Dec;9(6):747–56

Escherichia coli rpoC397 encodes a temperature–sensitive C–terminal frameshift in the beta' subunit of RNA polymerase that blocks growth of bacteriophage P2. Christie GE, et al. **J Bacteriol** 1996 Dec;178(23):6991–3

Growth rate–related regulation of the ilvGMEDA operon of Escherichia coli K–12 is a consequence of the polar frameshift mutation in the ilvG gene of this strain. Parekh BS, et al. **J Bacteriol** 1997 Mar;179(6):2086–8

Base miscoding and strand misalignment errors by mutator Klenow polymerases with amino acid substitutions at tyrosine 766 in the O helix of the fingers subdomain. Bell JB, et al. **J Biol Chem** 1997 Mar 14;272(11):7345–51

Replication of template–primers containing propanodeoxyguanosine by DNA polymerase beta. Induction of base pair substitution and frameshift mutations by template slippage and deoxynucleoside triphosphate stabilization. Hashim MF, et al. **J Biol Chem** 1997 Aug 8;272(32):20205–12

Inactivation of a novel neuropeptide Y/peptide YY receptor gene in primate species. Matsumoto M, et al. **J Biol Chem** 1996 Nov 1;271(44):27217–20

A thumb subdomain mutant of the large fragment of Escherichia coli DNA polymerase I with reduced DNA binding affinity, processivity, and frameshift fidelity. Minnick DT, et al. **J Biol Chem** 1996 Oct 4; 271(40):24954–61

Spontaneous feminization in a 46,XX female patient with congenital lipoid adrenal hyperplasia due to a homozygous frameshift mutation in the steroidogenic acute regulatory protein. Bose HS, et al. **J Clin Endocrinol Metab** 1997 May; 82(5):1511–5

A homozygous mutation in the integrin alpha6 gene in junctional epidermolysis bullosa with pyloric atresia. Ruzzi L, et al. **J Clin Invest** 1997 Jun 15;99(12):2826–31

A combination of a common splice site mutation and a frameshift mutation in the COL7A1 gene: absence of functional collagen VII in keratinocytes and skin. Hammami–Hauasli N, et al. **J Invest Dermatol** 1997 Sep; 109(3):384–9

Four frameshift mutations in neurofibromatosis type 1 caused by small insertions. Colman SD, et al. **J Med Genet** 1997 Jul;34(7):579–81

Structural probing and mutagenic analysis of the stem–loop required for Escherichia coli dnaX ribosomal frameshifting: programmed efficiency of 50%. Larsen B, et al. **J Mol Biol** 1997 Aug 8;271(1):47–60

The dnrM gene in Streptomyces peucetius contains a naturally occurring frameshift mutation that is suppressed by another locus outside of the daunorubicin–production gene cluster. Gallo MA, et al. **Microbiology** 1996 Feb;142 (Pt 2):269–75

Frameshift intermediates in homopolymer runs are removed efficiently by yeast mismatch repair proteins. Greene CN, et al. **Mol Cell Biol** 1997 May;17(5):2844–50

Adducts formed by the food mutagen 2–amino–3–methylimidazo(4,5–f) quinoline induce frameshift mutations at hot spots through an SOS–independent pathway. Maenhaut–Michel G, et al. **Mol Gen Genet** 1997 Feb 20;253(5):634–41

Severe Charcot–Marie–Tooth neuropathy type 1A with 1–base pair deletion and frameshift mutation in the peripheral myelin protein 22 gene. Ionasescu VV, et al. **Muscle Nerve** 1997 Oct;20(10):1308–10

A direct role for DNA polymerase III in adaptive reversion of a frameshift mutation in Escherichia coli. Harris RS, et al. **Mutat Res** 1997 Apr 14;375(1):19–24

An Escherichia coli topB mutant increases deletion and frameshift mutations in the supF target gene. Uematsu N, et al. **Mutat Res** 1997 May 1;383(3):223–30

Fas gene mutations in the Canale–Smith syndrome, an inherited lymphoproliferative disorder associated with autoimmunity [see comments] Drappa J, et al. **N Engl J Med** 1996 Nov 28;335(22):1643–9. Comment in: N Engl J Med 1997 May 15;336(20):1457; discussion 1457–8.

Interferon–gamma–receptor deficiency in an infant with fatal bacille Calmette–Guérin infection. Jouanguy E, et al. **N Engl J Med** 1996 Dec 26;335(26):1956–61

GLI3 frameshift mutations cause autosomal dominant Pallister–Hall syndrome. Kang S, et al. **Nat Genet** 1997 Mar;15(3):266–8

Clinical and functional investigation of 10 missense mutations and a novel frameshift insertion mutation of the gene for copper–zinc superoxide dismutase in UK families with amyotrophic lateral sclerosis. Orrell RW, et al. **Neurology** 1997 Mar;48(3):746–51

Dystrophin expression in a Duchenne muscular dystrophy patient with a frame shift deletion. Prior TW, et al. **Neurology** 1997 Feb;48(2):486–8

A novel frameshift mutation in PMP22 accounts for hereditary neuropathy with liability to pressure palsies. Young P, et al. **Neurology** 1997 Feb;48(2):450–2

A rare insertion of T226 in exon 1 of CYP2D6 causes a frameshift and is associated with the poor metabolizer phenotype: CYP2D6*15. Sachse C, et al. **Pharmacogenetics** 1996 Jun;6(3):269–72

The mouse Pax2(1Neu) mutation is identical to a human PAX2 mutation in a family with renal–coloboma syndrome and results in developmental defects of the brain, ear, eye, and kidney. Favor J, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13870–5

APC mutations in colorectal tumors with mismatch repair deficiency. Huang J, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9049–54

Detection of heterozygous truncating mutations in the BRCA1 and APC genes by using a rapid screening assay in yeast. Ishioka C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2449–53

SOS factors involved in translesion synthesis. Napolitano RL, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5733–8

Induction of frameshift mutations at hotspot sequences by carcinogen adducts. Burnouf D, et al. **Recent Results Cancer Res** 1997;143:1–20 (42 ref.)

Somatic frameshift mutations in the BAX gene in colon cancers of the microsatellite mutator phenotype. Rampino N, et al. **Science** 1997 Feb 14;275(5302):967–9

Two mutations in exon XII of the protein S alpha gene in four thrombophilic families resulting in premature stop codons and depressed levels of mutated mRNA. Andersen BD, et al. **Thromb Haemost** 1996 Aug;76(2):143–50

Molecular and genetic analysis of two patients with Bernard–Soulier syndrome—identification of new mutations in glycoprotein Ib alpha gene. Kanaji T, et al. **Thromb Haemost** 1997 Jun;77(6):1055–61

Effects of coat protein mutations and reduced movement protein expression on infection spread by cowpea chlorotic mottle virus and its hybrid derivatives. De Jong W, et al. **Virology** 1997 May 26;232(1):167–73

GENETICS

Hereditary desmoid disease due to a frameshift mutation at codon 1924 of the APC gene [see comments] Eccles DM, et al. **Am J Hum Genet** 1996 Dec;59(6):1193–201. Comment in: Am J Hum Genet 1996 Dec;59(6):1184–5.

The molecular pathology of progressive symmetric erythrokeratoderma: a frameshift mutation in the loricrin gene and perturbations in the cornified cell envelope. Ishida–Yamamoto A, et al. **Am J Hum Genet** 1997 Sep; 61(3):581–9

Spectrum of mutations in the COL4A5 collagen gene in X–linked Alport syndrome. Knebelmann B, et al. **Am J Hum Genet** 1996 Dec;59(6):1221–32

alpha1–antitrypsin gene mutation hot spot associated with the formation of a retained and degraded null variant. Brantly M, et al. **Am J Respir Cell Mol Biol** 1997 Mar; 16(3):225–31

1283 del A: a novel mutation in exon 8 of the cystic fibrosis gene. Bienvenu T, et al. **Hum Hered** 1997 May–Jun; 47(3):173–5

Three mutations in the paired homeodomain of PAX3 that cause Waardenburg syndrome type 1. Morell R, et al. **Hum Hered** 1997 Jan–Feb;47(1):38–41

An 11 base pair duplication in exon 6 of the SMN gene produces a type I spinal muscular atrophy (SMA) phenotype: further evidence for SMN as the primary SMA–determining gene. Parsons DW, et al. **Hum Mol Genet** 1996 Nov;5(11):1727–32

New evidence for a mutation hotspot in exon 37 of the NF1 gene. Böddrich A, et al. **Hum Mutat** 1997;9(4):374–7

Novel and recurrent mutations in the neurofibromatosis type 1 (NF1) gene. Hudson J, et al. **Hum Mutat** 1997;9(4):366–7

Mutations of the transforming growth factor beta type II receptor gene and microsatellite instability in gastric cancer. Ohue M, et al. **Int J Cancer** 1996 Oct 9;68(2):203–6

Novel missense and frameshift mutations in the adrenoleukodystrophy gene. Ueyama H, et al. **Jpn J Hum Genet** 1996 Dec;41(4):407–11

New BRCA2 mutation in an Ashkenazi Jewish family with breast and ovarian cancer [letter] Robson ME, et al. **Lancet** 1997 Jul 12;350(9071):117–8

Autosomal recessive limb–girdle muscular dystrophy, LGMD2F, is caused by a mutation in the delta–sarcoglycan gene. Nigro V, et al. **Nat Genet** 1996 Oct;14(2):195–8

PHYSIOLOGY

The frameshift mutation oscillator (Glra1(spd–ot)) produces a complete loss of glycine receptor alpha1–polypeptide in mouse central nervous system. Kling C, et al. **Neuroscience** 1997 May;78(2):411–7

FRAMESHIFTING, RIBOSOMAL

see related
FRAMESHIFT MUTATION

Translational bypassing: a new reading alternative of the genetic code. Groisman I, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1055–9 (21 ref.)

Upstream stimulators for recoding. Larsen B, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1123–9 (45 ref.)

Mof4–1 is an allele of the UPF1/IFS2 gene which affects both mRNA turnover and –1 ribosomal frameshifting efficiency. Cui Y, et al. **EMBO J** 1996 Oct 15; 15(20):5726–36

Identification of a ribosomal frameshift in Leishmania RNA virus 1–4. Lee SE, et al. **J Biochem (Tokyo)** 1996 Jul; 120(1):22–5

Enhanced ribosome frameshifting in stationary phase cells. Barak Z, et al. **J Mol Biol** 1996 Oct 25;263(2):140–8

Reported translational bypass in a trpR'–lacZ' fusion is accounted for by unusual initiation and +1 frameshifting. Wills NM, et al. **J Mol Biol** 1997 Aug 29;271(4):491–8

Programmed translational frameshifting. Farabaugh PJ. **Microbiol Rev** 1996 Mar;60(1):103–34 (230 ref.)

A mutant RNA pseudoknot that promotes ribosomal frameshifting in mouse mammary tumor virus. Kang H, et al. **Nucleic Acids Res** 1997 May 15;25(10):1943–9

Analyses of frameshifting at UUU–pyrimidine sites. Schwartz R, et al. **Nucleic Acids Res** 1997 May 15;25(10):2005–11

Unconventional structure of tRNA(Lys)SUU anticodon explains tRNA's role in bacterial and mammalian ribosomal frameshifting and primer selection by HIV–1. Agris PF, et al. **RNA** 1997 Apr;3(4):420–8

DRUG EFFECTS

Peptidyl–transferase inhibitors have antiviral properties by altering programmed –1 ribosomal frameshifting efficiencies: development of model systems. Dinman JD, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6606–11

GENETICS

Expression of a coronavirus ribosomal frameshift signal in Escherichia coli: influence of tRNA anticodon modification on frameshifting. Brierley I, et al. **J Mol Biol** 1997 Jul 18; 270(3):360–73

Base–pairings within the RNA pseudoknot associated with the simian retrovirus–1 gag–pro frameshift site. Du Z, et al. **J Mol Biol** 1997 Jul 18;270(3):464–70

FRAMESHIFTING, TRANSLATIONAL see **FRAMESHIFTING, RIBOSOMAL**

FRANCISELLA

Francisella philomiragia sepsis in chronic granulomatous disease. Sicherer SH, et al. **Pediatr Infect Dis J** 1997 Apr; 16(4):420–2

GENETICS

Cryptic plasmid pFNL10 from Francisella novicida–like F6168: the base of plasmid vectors for Francisella tularensis. Pavlov VM, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):253–56

IMMUNOLOGY

[A comparative analysis of Francisella protein antigens] Rodionova IV, et al. **Mol Gen Mikrobiol Virusol** 1997; (3):11–5 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Frequent isolation of Francisella tularensis from Dermacentor reticulatus ticks in an enzootic focus of tularaemia. Hubálek Z, et al. **Med Vet Entomol** 1996 Jul; 10(3):241–6

PHYSIOLOGY

Suppression of Francisella tularensis growth in the rat by co–infection with F. novicida. Cowley SC, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):71–4

FRANCISELLA TULARENSIS

Aerosol delivery of liposome–encapsulated ciprofloxacin: aerosol characterization and efficacy against Francisella tularensis infection in mice. Conley J, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1288–92

[A milk–borne outbreak of tularemia in Moscow] Manenkova GM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):123–4 **(Rus)**

CHEMISTRY

Identification of proteins of Francisella tularensis induced during growth in macrophages and cloning of the gene encoding a prominently induced 23–kilodalton protein. Golovliov I, et al. **Infect Immun** 1997 Jun;65(6):2183–9

[The composition of the cellular fatty acids in bacteria of the genera Yersinia and Francisella] Vasiurenko ZP, et al. **Mikrobiol Z** 1997 Jan–Feb;59(1):24–30 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Cytokine expression in the liver of mice infected with a highly virulent strain of Francisella tularensis. Golovliov I, et al. **FEMS Immunol Med Microbiol** 1996 Mar; 13(3):239–44

The new vaccine strains (or variants) of Francisella tularensis. Kormilitsyna MI, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):215–9

Characterization of two unusual clinically significant Francisella strains. Clarridge JE 3rd, et al. **J Clin Microbiol** 1996 Aug;34(8):1995–2000

DRUG EFFECTS

Francisella tularensis resistance to bactericidal action of normal human serum. Sorokin VM, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):249–52

GENETICS

Construction of a shuttle vector for use in Francisella tularensis. Norqvist A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):257–60

Cryptic plasmid pFNL10 from Francisella novicida–like F6168: the base of plasmid vectors for Francisella tularensis. Pavlov VM, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):253–56

A Francisella tularensis DNA clone complements Escherichia coli defective for the production of Era, an essential Ras–like GTP–binding protein. Zuber M, et al. **Gene** 1997 Apr 11;189(1):31–4

Characterization of the nucleotide sequence of the groE operon encoding heat shock proteins chaperone–60 and –10 of Francisella tularensis and determination of the T–cell response to the proteins in individuals vaccinated with F. tularensis. Ericsson M, et al. **Infect Immun** 1997 May; 65(5):1824–9

GROWTH & DEVELOPMENT

Suppression of Francisella tularensis growth in the rat by co–infection with F. novicida. Cowley SC, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):71–4

Phase variation in Francisella tularensis affecting intracellular growth, lipopolysaccharide antigenicity and nitric oxide production. Cowley SC, et al. **Mol Microbiol** 1996 May; 20(4):867–74

IMMUNOLOGY

Tularemia. Jacobs RF. **Adv Pediatr Infect Dis** 1996;12:55–69 (15 ref.)

Live tularemia vaccine confers protection against lethal Legionella and Listeria infections in experimental animals. Belyi YF, et al. **FEMS Immunol Med Microbiol** 1996 Mar; 13(3):211–3

Role of two outer membrane antigens in the induction of protective immunity against Francisella tularensis strains of different virulence. Fulop M, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):245–7

The new vaccine strains (or variants) of Francisella tularensis. Kormilitsyna MI, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):215–9

The immune response against Francisella tularensis live vaccine strain in Lps(n) and Lps(d) mice. Macela A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):235–8

Francisella tularensis: host–parasite interaction. Sjöstedt A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):181–4 (20 ref.)

Francisella tularensis resistance to bactericidal action of normal human serum. Sorokin VM, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):249–52

Orchestration of the protective immune response to intracellular bacteria: Francisella tularensis as a model organism. Tärnvik A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):221–5

Immunogenicity of a new lot of Francisella tularensis live vaccine strain in human volunteers. Waag DM, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):205–9

Early consequences of macrophage–Francisella tularensis interaction under the influence of different genetic background in mice. Hernychova L, et al. **Immunol Lett** 1997 Jun 1;57(1–3):75–81

Characterization of the nucleotide sequence of the groE operon encoding heat shock proteins chaperone–60 and –10 of Francisella tularensis and determination of the T–cell response to the proteins in individuals vaccinated with F. tularensis. Ericsson M, et al. **Infect Immun** 1997 May; 65(5):1824–9

A novel role for B cells in early protective immunity to an intracellular pathogen, Francisella tularensis strain LVS. Culkin SJ, et al. **J Immunol** 1997 Apr 1;158(7):3277–84

Loss of either CD4+ or CD8+ T cells does not affect the magnitude of protective immunity to an intracellular pathogen, Francisella tularensis strain LVS. Yee D, et al. **J Immunol** 1996 Dec 1;157(11):5042–8

[Tularemia vaccine strain is a potential vector] Pavlov VM, et al. **Vestn Ross Akad Med Nauk** 1997;(6):30–2 (28 ref.) (Eng. Abstr.) **(Rus)**

[The characterization of Francisella tularensis mutants and subspecies by using monoclonal antibodies] Aleshkin GI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul–Aug; (4):18–22 (Eng. Abstr.) **(Rus)**

[The resistance of Francisella tularensis to the bactericidal action of normal serum as a criterion for evaluating the virulence of the bacterium] Pavlovich NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):7–10 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Detection of Francisella tularensis in ulcers of patients with tularemia by PCR. Sjöstedt A, et al. **J Clin Microbiol** 1997 May;35(5):1045–8

Detection of Francisella tularensis by the polymerase chain reaction. Junhui Z, et al. **J Med Microbiol** 1996 Dec; 45(6):477–82

A shunt infection caused by Francisella tularensis. Pittman T, et al. **Pediatr Neurosurg** 1996;24(1):50–1

PATHOGENICITY

Tularemia. Jacobs RF. **Adv Pediatr Infect Dis** 1996;12:55–69 (15 ref.)

Role of two outer membrane antigens in the induction of protective immunity against Francisella tularensis strains of different virulence. Fulop M, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):245–7

Cytokine expression in the liver of mice infected with a highly virulent strain of Francisella tularensis. Golovliov I, et al. **FEMS Immunol Med Microbiol** 1996 Mar; 13(3):239–44

Francisella tularensis: host–parasite interaction. Sjöstedt A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):181–4 (20 ref.)

[The resistance of Francisella tularensis to the bactericidal action of normal serum as a criterion for evaluating the virulence of the bacterium] Pavlovich NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb;(1):7–10 (Eng. Abstr.) **(Rus)**

[A rapid method for assessing the virulence of Francisella tularensis in vitro] Pavlovich NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar–Apr; (2):17–20 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

[Morphology, ultrastructure and populational features of bacteria francisella] Gerasimov VN, et al. **Vestn Ross Akad Med Nauk** 1997;(6):24–30 (Eng. Abstr.) **(Rus)**

FRANGULA see **RHAMNUS**

FRANGULA EMODIN see **EMODIN**

FRANKFURT–MARBURG SYNDROME VIRUS see **MARBURG VIRUS**

FRANKLIN'S DISEASE see **HEAVY CHAIN DISEASE**

FRAUD

see related
QUACKERY

Confidentiality and health insurance fraud. Farber NJ, et al. **Arch Intern Med** 1997 Mar 10;157(5):501–4

Authorship. Author saw fraud, misconduct, and unfairness to more junior staff [letter] Currie C. **BMJ** 1997 Sep 20; 315(7110):747–8

UK government to tackle prescription fraud [news] Warden J. **BMJ** 1997 Jun 28;314(7098):1851

Fraud worries insurance companies but should concern physicians too, industry says. Baer N. **Can Med Assoc J** 1997 Jan 15;156(2):251–3, 256

Medicare, Medicaid fraud a billion–dollar art form in the US. Korcok M. **Can Med Assoc J** 1997 Apr 15; 156(8):1195–7

Falsified or forged medical prescriptions as an indicator of pharmacodependence: a pilot study. Community pharmacists of the Midi–Pyrénées. Lapeyre–Mestre M, et al. **Eur J Clin Pharmacol** 1997;52(1):37–9

Outcomes of corporate greed. Mohr WK. **Image J Nurs Sch** 1997 Spring;29(1):39–45

What to do if an investigator is at your office door. Glaser D. **Iowa Med** 1996 Mar;86(3):113–4

Public enemy number 2: academic medicine under the Federal spotlight [editorial] Parmley WW. **J Am Coll Cardiol** 1997 Apr;29(5):1117

Reader's digest [letter] Spector AM, et al. **J Am Dent Assoc** 1997 Apr;128(4):398, 400, 402

Publication, ethics, and scientific integrity [editorial] Fielder JH. **J Biomed Mater Res** 1996 Feb;30(2):129–31

Fraud—do we blame it on monkeys? [editorial] Crawford R. **J Can Dent Assoc** 1996 Mar;62(3):195

The ethics of bad breath [see comments] Dolman B. **J Can Dent Assoc** 1997 Feb;63(2):79. Comment in: J Can Dent Assoc 1997 Apr;63(4):235.

Extortion in the emergency department [editorial; comment] Kercher EE. **J Emerg Med** 1997 Jul–Aug;15(4):532–3. Comment on: J Emerg Med 1997 Jul–Aug;15(4):537–41.

Extortion in the emergency department [see comments] Sousa JA, et al. **J Emerg Med** 1997 Jul–Aug;15(4):537–41. Comment in: J Emerg Med 1997 Jul–Aug;15(4):532–3.

Medicaid abuse in Florida: are physicians to blame? Bagby RJ. **J Fla Med Assoc** 1996 Dec;83(10):667–8

Medical fraud in Florida. Dauer EA. **J Fla Med Assoc** 1997 Feb;84(2):83–4

Petty corruption in health care [editorial] Blasszauer B. **J Med Ethics** 1997 Jun;23(3):133–4

Health care fraud: your risk may be greater than you think. Friedman M. **Md Med J** 1996 Oct;45(10):825–6

Miami AIDS researcher denies charges over billing irregularities [news] Dalton R. **Nature** 1997 Aug 21; 388(6644):704

Health care fraud: even innocent physicians are not immune. Penny JG. **Pa Med** 1996 Oct;99(10):14–7

Responsibility, integrity, and clinical experts [editorial] Habal MB. **Plast Reconstr Surg** 1997 Apr;99(4):1134–5

Encouraging medical device innovation: reimbursement problems and new policies. Robinson CA, et al. **Public Health Rep** 1996 Sep–Oct;111(5):468–70

Concerning a malpractice case. **Surg Neurol** 1997 Aug; 48(2):197–9

Tracking down the bad guys. Jones TL. **Tex Med** 1996 Nov; 92(11):30–4

[Good practice is a means for preventing fraud in clinical research] Maisonneuve H. **Rev Med Interne** 1996; 17(10):846–51 (Eng. Abstr.) **(Fre)**

[Criminology in biomedical research] Varró V. **Orv Hetil** 1996 Mar 24;137(12):633–6 (Eng. Abstr.) **(Hun)**

ECONOMICS

500 FBI agents. Glaser D. **Iowa Med** 1996 Mar;86(3):110–2

Future of health care reform [letter; comment] Uzych L. **J Am Board Fam Pract** 1996 Jul–Aug;9(4):305. Comment on: J Am Board Fam Pract 1996 Jan–Feb;9(1):37–40.

The new health care game [letter; comment] Schwartz GR. **N Engl J Med** 1997 Jan 2;336(1):72–3. Comment on: N Engl J Med 1996 Aug 8;335(6):433.

LEGISLATION & JURISPRUDENCE

Criminal deception. Davis RM. **Alaska Med** 1996 Jan–Mar; 38(1):43–8

The fraud and abuse statute in an evolving health care marketplace: life in the health care speakeasy. Blumstein JF. **Am J Law Med** 1996;22(2–3):205–31 (0 ref.)

Congress focuses on health care fraud and abuse. Avery LH. **AORN J** 1996 Jan;63(1):269, 272–6

Rationalizing the fraud and abuse statute [see comments] Blumstein JF. **Health Aff (Millwood)** 1996 Winter; 15(4):118–28. Comment in: Health Aff (Millwood) 1996 Winter;15(4):129–30.

The fraud and abuse statute: rationalizing or rationalization? [comment] Jost TS, et al. **Health Aff (Millwood)** 1996 Winter;15(4):129–31. Comment on: Health Aff (Millwood) 1996 Winter;15(4):118–28.

Enforcement ... turning up the heat on suspected fraud and abuse in Medicare and Medicaid [news] **Hosp Health Netw** 1997 Sep 5;71(17):26

Litigation ... 4,600 hospitals nationwide had overcharged Medicare [news] **Hosp Health Netw** 1997 Jan 5;71(1):14

Kassebaum–Kennedy watch. How to steer clear of fraud and abuse. Hudson T. **Hosp Health Netw** 1996 Nov 5;70(21):68

Fraud & abuse. Comply route. Serb C. **Hosp Health Netw** 1997 Sep 5;71(17):50, 52, 54

Combatting fraud and abuse. Anti–kickback statute. Boyd W 3rd. **Iowa Med** 1997 Jan;87(1):23–4

The buck stops here: preemption of third–party claims by the false claims act. O'Neil TF 3rd, et al. **J Contemp Health Law Policy** 1995 Fall;12(1):41–65 (149 ref.)

Fighting health care fraud in Florida. Cook DM. **J Fla Med Assoc** 1997 Feb;84(2):93–4

The golden rule. Harty–Golder B. **J Fla Med Assoc** 1997 Jan;84(1):58–60

New managed care safe harbors. Conn LC.

J Health Care Finance 1996 Summer;22(4):67–70

Fraud and abuse provisions in the Health Insurance Portability and Accountability Act: a guide to the new act for physicians. McCampbell RG.
J Okla State Med Assoc 1997 Apr;90(4):139–41

Health care fraud enforcement initiatives in Maryland. Harris CS. **Md Med J** 1996 Oct;45(10):861–5

Physician, protect thyself: minimizing the risk of employee embezzlement. Streitfeld R. **Med Health R I** 1997 Jul; 80(7):229–31 (3 ref.)

Fraud and misconduct in medical research. Lock S.
Med Leg J 1996;64 (Pt 4):139–52

The citizen attorney general and Medicare fraud. DeWitt AL. **Mo Med** 1996 Nov;93(11):688–9

Biomedical research and insider trading. Ferguson JR.
N Engl J Med 1997 Aug 28;337(9):631–4

Heat rises over UCSD 'misconduct' charge [news] Dalton R. **Nature** 1997 Feb 13;385(6617):566

New law adds significant penalties for the waiver of copayments. Liggett N. **Tenn Med** 1997 Sep;90(9):354–5

The Health Insurance Portability and Accountability Act. Meyer A. **Tenn Med** 1997 Mar;90(3):86–9

New federal fraud and abuse legislation includes some good news, maybe. Katayama AC. **Wis Med J** 1996 Oct; 95(10):724–8

Delayed arrival of George Orwell's 1984 [letter] Myersak JS. **Wis Med J** 1997 May;96(5):8

[Voice identification in the Dr. Schneider case. Problems in speaker identification by lay persons] Künzel HJ.
Arch Kriminol 1996 Jul–Aug;198(1–2):1–10 (Eng. Abstr.) **(Ger)**

[Drug fraud—an unscrupulous business (news)] Graniz E.
Fortschr Med 1997 Mar 30;115(9):16, 18 **(Ger)**

[Life and health insurance. Confrontation for fraudulent deception according to section 22 of the Insurance Contract Regulation] Schmitz D. **Versicherungsmedizin** 1996 Dec 1; 48(6):189–90 **(Ger)**

PREVENTION & CONTROL

Fraud and misconduct in medical research. Wells F.
Br J Clin Pharmacol 1997 Jan;43(1):3–7

Michigan AIDS Fraud Task Force. **Mich Med** 1996 Nov; 95(11):35

New act expands efforts against fraud and abuse. Olmstead DL. **Pa Med** 1996 Nov;99(11):30–2

PSYCHOLOGY

[Fraud and shoplifting] Sirois F. **Can J Psychiatry** 1996 Aug; 41(6):413–4 **(Fre)**

FRAUD, HEALTH CARE see **FRAUD**

FRAUD, SCIENTIFIC see **SCIENTIFIC MISCONDUCT**

FRAUDULENT DATA see **SCIENTIFIC MISCONDUCT**

FRECKLES see **MELANOSIS**

FREE ASSOCIATION

The analysis of 'associating', 'interpreting' and 'words': use of this analysis to bring unconscious fantasies into the present and to achieve greater ego integration [classical article] [see comments] de Alvarez de Toledo L.
Int J Psychoanal 1996 Apr;77 (Pt 2):291–317. Comment in: Int J Psychoanal 1996 Apr;77(Pt 2):319–22.

Associating and interpreting forty years on [comment] Puget J, et al. **Int J Psychoanal** 1996 Apr;77 (Pt 2):319–22. Comment on: Int J Psychoanal 1996 Apr;77(Pt 2):291–317.

Free association and analytic neutrality: the basic structure of the psychoanalytic situation. Adler E, et al.
J Am Psychoanal Assoc 1996;44(4):1021–46

Understanding the patient's use of the method of free association: an ego psychological approach. Busch F.
J Am Psychoanal Assoc 1997;45(2):407–23

Figures and their functions: on the oedipal structure of a psychoanalysis. Bollas C. **Psychoanal Q** 1996 Jan;65(1):1–20

The informational value of dreams and associations. Olsson G. **Scand J Psychol** 1996 Mar;37(1):16–36

FREE FATTY ACIDS see **FATTY ACIDS, NONESTERIFIED**

FREE RADICAL SCAVENGERS

Scavenging of oxygen radicals by heme peroxidases. Gębicka L, et al. **Acta Biochim Pol** 1996;43(4):673–8

Evolutionary aspects of indoleamines as radical scavengers. Presence and photocatalytic turnover of indoleamines in a unicell, Gonyaulax polyedra. Hardeland R, et al.
Adv Exp Med Biol 1996;398:279–84

Oxygen-radical-scavenging activity of DDMP-conjugated saponins and physiological role in leguminous plant. Okubo K, et al. **Adv Exp Med Biol** 1996;405:141–54 (27 ref.)

Protective action of nitrone-based free radical traps against oxidative damage to the central nervous system. Floyd RA.
Adv Pharmacol 1997;38:361–78 (71 ref.)

Superoxide scavenging activity of erythromycin–iron complex. Muranaka H, et al.
Biochem Biophys Res Commun 1997 Mar 6;232(1):183–7

Hydroxyl and superoxide anion radical scavenging activities of natural source antioxidants using the computerized JES-FR30 ESR spectrometer system. Noda Y, et al.
Biochem Mol Biol Int 1997 Jun;42(1):35–44

Expression and function of a scavenger lipoprotein pathway in porcine luteal cells. Brannian JD. **Biol Reprod** 1997 Jan; 56(1):221–8

Nonsteroidal antiinflammatory drugs interact with horseradish peroxidase in an in vitro assay system for hydrogen peroxide scavenging. Parij N, et al.
Eur J Pharmacol 1996 Sep 12;311(2–3):259–64

Scavenging effects of tea catechins and their derivatives on 1,1-diphenyl-2-picrylhydrazyl radical. Nanjo F, et al.
Free Radic Biol Med 1996;21(6):895–902

Scavenging of reactive oxygen species by a glycolipid fraction of Mycobacterium avium serovar 2. Scherer TA, et al. **Free Radic Biol Med** 1997;22(3):561–5

Antioxidants and disease—current status. Daga MK, et al.
J Assoc Physicians India 1996 Oct;44(10):703–10 (67 ref.)

Scavenging effects of dopamine agonists on nitric oxide radicals. Nishibayashi S, et al. **J Neurochem** 1996 Nov; 67(5):2208–11

Effects of a novel free radical scavenger, MCl-186, on ischemic brain damage in the rat distal middle cerebral artery occlusion model. Kawai H, et al.
J Pharmacol Exp Ther 1997 May;281(2):921–7

Synthesis of a novel vitamin E derivative,
2-(alpha-D-glucopyranosyl)
methyl-2,5,7,8-tetramethylchroman-6-ol, by
alpha-glucosidase-catalyzed transglycosylation. Murase H, et al. **Lipids** 1997 Jan;32(1):73–8

Is beta-carotene an antioxidant? Crabtree DV, et al.
Med Hypotheses 1997 Feb;48(2):183–7 (37 ref.)

Measurement of nitrate and nitrite in biological samples using nitrate reductase and Griess reaction. Granger DL, et al.
Methods Enzymol 1996;268:142–51

Buckminsterfullerenol free radical scavengers reduce excitotoxic and apoptotic death of cultured cortical neurons. Dugan LL, et al. **Neurobiol Dis** 1996 Apr; 3(2):129–35

Delayed treatment with alpha-phenyl-N-tert-butyl nitrone (PBN) attenuates secondary mitochondrial dysfunction after transient focal cerebral ischemia in the rat. Kuroda S, et al. **Neurobiol Dis** 1996 Apr;3(2):149–57

Role of metallothionein and other antioxidants in scavenging superoxide radicals and their possible role in neuroprotection. Hussain S, et al. **Neurochem Int** 1996 Aug; 29(2):145–52

Ischemia–reperfusion injury in the intestines of newborn pigs. Papparella A, et al. **Pediatr Res** 1997 Aug;42(2):180–8

Nacystelyn, a novel lysine salt of N-acetylcysteine, to augment cellular antioxidant defence in vitro. Gillissen A, et al. **Respir Med** 1997 Mar;91(3):159–68

Gastroprotective activity of melatonin and its precursor, L-tryptophan, against stress-induced and
ischaemia-induced lesions is mediated by scavenge of oxygen radicals. Konturek PC, et al.
Scand J Gastroenterol 1997 May;32(5):433–8

[Free radicals formation in various diseases and the scavengers] Endo H, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):122–5 (14 ref.) **(Jpn)**

[Free radical scavengers] Kondo T, et al. **No To Shinkei** 1996 Dec;48(12):1099–113 (87 ref.) **(Jpn)**

[Mechanisms of cytotoxic drug-induced emesis and its prevention] Matsuki N. **Yakugaku Zasshi** 1996 Sep; 116(9):710–8 (32 ref.) (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Reduction of ischemia–reperfusion syndrome after abdominal aortic aneurysmectomy by N-acetylcysteine but not mannitol. Kretzschmar M, et al.
Acta Anaesthesiol Scand 1996 Jul;40(6):657–64

Nebulized glutathione induces bronchoconstriction in patients with mild asthma. Marrades RM, et al.
Am J Respir Crit Care Med 1997 Aug;156(2 Pt 1):425–30

Suppression of UV-induced erythema by topical treatment with melatonin (N-acetyl-5-methoxytryptamine). A dose response study. Bangha E, et al. **Arch Dermatol Res** 1996 Aug;288(9):522–6

N-acetylcysteine treatment lowers plasma homocysteine but not serum lipoprotein(a) levels. Wiklund O, et al.
Atherosclerosis 1996 Jan 5;119(1):99–106

Dimethylthiourea protects rats against gram-negative sepsis and decreases tumor necrosis factor and nuclear factor kappaB activity. Sprong RC, et al. **J Lab Clin Med** 1997 Apr;129(4):470–81

[Progress in the treatment of coronary heart disease with antioxidant of integrated traditional Chinese
medicine-Western medicine] Li AC, et al.
Chung Kuo Chung Hsi I Chieh Ho Tsa Chih 1996 Jan; 16(1):61–3 (21 ref.) **(Chi)**

[Modification of ischemia-/ reperfusion damage after liver transplantation by N-acetylcysteine. Results of the Heidelberg pilot study] Thies JC, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:531–4 **(Ger)**

[Effectiveness of brief infusions with Ginkgo biloba Special Extract EGb 761 in dementia of the vascular and Alzheimer type] Haase J, et al. **Z Gerontol Geriatr** 1996 Jul–Aug; 29(4):302–9 (Eng. Abstr.) **(Ger)**

[Pharmacologic modification of intestinal reperfusion injury in the animal experiment] Lehmann C, et al.
Zentralbl Chir 1996;121(1):70–6 (Eng. Abstr.) **(Ger)**

[Effect of phosphate diester linkage of vitamin E and vitamin C (EPC-K1) on myocardial ischemia reperfusion injury in the isolated working rat heart] Inoue M.
Nippon Kyobu Geka Gakkai Zasshi 1997 May;45(5):742–9 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Status epilepticus following intravenous N-acetylcysteine therapy. Hershkovitz E, et al. **Isr J Med Sci** 1996 Nov; 32(11):1102–4

Dilution of intravenous N-acetylcysteine as a cause of hyponatremia. Sung L, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):389–91

ANALYSIS

Replacing 14C with stable isotopes in drug metabolism studies. Abramson FP, et al. **Drug Metab Dispos** 1996 Jul; 24(7):697–701

Fluorometric study of the isoform difference of mammalian metallothionein. Tie JK, et al.
J Biochem Biophys Methods 1996 Dec 30;33(3):245–53

High-performance liquid chromatography assay for N-acetylcysteine in biological samples following derivatization with N-(1-pyrenyl)maleimide. Ercal N, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):329–34

BLOOD

Age-related changes in the peroxyl radical scavenging capacity of human plasma. Aejmelaeus RT, et al.
Free Radic Biol Med 1997;23(1):69–75

Free radical scavengers & lipid peroxidation in acute aluminium phosphide poisoning. Chugh SN, et al.
Indian J Med Res 1996 Aug;104:190–3

Placental transfer of N-acetylcysteine following human maternal acetaminophen toxicity. Horowitz RS, et al.
J Toxicol Clin Toxicol 1997;35(5):447–51

CHEMICAL SYNTHESIS

Evaluation of mercaptoalkyl derivatives of
imidazolidine-4-one as potential antioxidants and free radical scavengers. Kieć-Kononowicz K, et al. **Farmaco** 1996 Dec;51(12):819–24

CHEMISTRY

Chemiluminescence of oxygen radical scavengers such as DDMP saponins in the presence of radicals and aldehyde. Yoshiki Y, et al. **Adv Exp Med Biol** 1996;405:231–9 (16 ref.)

Propofol is a peroxynitrite scavenger. Kahraman S, et al.
Anesth Analg 1997 May;84(5):1127–9

Oxygen species scavenging activity of phenolic extracts from hawthorn fresh plant organs and pharmaceutical preparations. Bahorun T, et al. **Arzneimittelforschung** 1996 Nov;46(11):1086–9

Peroxynitrite scavenging by flavonoids. Haenen GR, et al.
Biochem Biophys Res Commun 1997 Jul 30;236(3):591–3

Reevaluation of superoxide scavenging activity of dihydrolipoic acid and its analogues by chemiluminescent method using
2-methyl-6-[p-methoxyphenyl]-3,7-dihydroimidazo-[1,2-a]pyrazine-3-one (MCLA) as a superoxide probe. Matsugo S, et al. **Biochem Biophys Res Commun** 1996 Oct 3; 227(1):216–20

Indole-3-carbinol as a scavenger of free radicals. Arnao MB, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1125–34

The radical scavenging abilities of a new anti-nephritic drug, OPC-15161. Ozawa T, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):231–8

Apomorphine is a highly potent free radical scavenger in rat brain mitochondrial fraction. Gassen M, et al.
Eur J Pharmacol 1996 Jul 18;308(2):219–25

(-)-Epigallocatechin gallate, a polyphenolic tea antioxidant, inhibits peroxynitrite-mediated formation of
8-oxodeoxyguanosine and 3-nitrotyrosine. Fiala ES, et al.
Experientia 1996 Sep 15;52(9):922–6

beta-Carotene effectively scavenges toxic nitrogen oxides: nitrogen dioxide and peroxynitrous acid. Kikugawa K, et al. **FEBS Lett** 1997 Mar 10;404(2–3):175–8

Antioxidant activity of diethyldithiocarbamate. Liu J, et al.
Free Radic Res 1996 Jun;24(6):461–72

Prevention of peroxynitrite-dependent tyrosine nitration and inactivation of alpha1-antiproteinase by antibiotics. Whiteman M, et al. **Free Radic Res** 1997 Jan;26(1):49–56

Comparative in vitro oxygen radical scavenging ability of zinc methionine and selected zinc salts and antioxidants. Bagchi D, et al. **Gen Pharmacol** 1997 Jan;28(1):85–91

Radical scavenger activity of bendazac, an anticataract non-steroidal anti-inflammatory agent. Guglielmotti A, et al. **Pharmacol Res** 1995 Dec;32(6):369–73

Oxidant scavenger function of ambroxol in vitro: a comparison with N-acetylcysteine. Gillissen A, et al.
Res Exp Med (Berl) 1997;196(6):389–98

METABOLISM

The indoleamine melatonin as a free radical scavenger, electron donor, and antioxidant. In vitro and in vivo studies. Reiter RJ. **Adv Exp Med Biol** 1996;398:307–13 (43 ref.)

The interactions of nitric oxide with oxygen radicals and

scavengers in cerebral ischemic injury. Beckman JS, et al. **Adv Neurol** 1996;71:339–50; discussion 350–4

Ascorbyl radical scavenging activity of polyphenols. Satoh K, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2885–90

Characterization of two E. histolytica proteins that inactivate reactive oxygen species. Bruchhaus I, et al. **Arch Med Res** 1997;28 Spec No:91–2

Status of free radicals and their scavenging enzymes in pregnancy induced hypertension (PIH). Pandey S, et al. **Boll Chim Farm** 1996 Sep;135(8):472–6

Age-related changes of oxygen free radical production in the rat brain slice after hypoxia: on-line measurement using enhanced chemiluminescence. Schreiber SJ, et al. **Brain Res** 1995 Dec 12;703(1–2):227–30

Free radical scavenging and antioxidative properties of 'silibin' complexes on microsomal lipid peroxidation. Basaga H, et al. **Cell Biochem Funct** 1997 Mar;15(1):27–33

Modulation of oxygen-radical-scavenging enzymes by oxidative stress in primary cultures of rat astroglial cells. Pinteaux E, et al. **Dev Neurosci** 1996;18(5–6):397–404

Effects of oxygen radicals and radical scavenging on opossum lower esophageal sphincter. Leichus LS, et al. **Dig Dis Sci** 1997 Mar;42(3):592–6

Nitro-L-arginine inteferes with the cadmium reduction of nitrate/griess reaction method of measuring nitric oxide production. Nithipatikom K, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):133–7

Reaction of melatonin with lipoperoxyl radicals in phospholipid bilayers. Livrea MA, et al. **Free Radic Biol Med** 1997;23(5):706–11

Role of nitric oxide and superoxide anion in leukotoxin-, 9,10-epoxy-12-octadecenoate-induced mitochondrial dysfunction. Sakai T, et al. **Free Radic Biol Med** 1996; 20(4):607–12

Ginseng extract scavenges hydroxyl radical and protects unsaturated fatty acids from decomposition caused by iron-mediated lipid peroxidation. Zhang D, et al. **Free Radic Biol Med** 1996;20(1):145–50

Altered levels of scavenging enzymes in embryos subjected to a diabetic environment. Forsberg H, et al. **Free Radic Res** 1996 Jun;24(6):451–9

Superoxide anions, free-radical scavengers, and nitrergic neurotransmission. Gibson A, et al. **Gen Pharmacol** 1997 Apr;28(4):489–93 (37 ref.)

Effect of phenothiazines on activated macrophage-induced luminol-dependent chemiluminescence. Traykov T, et al. **Gen Physiol Biophys** 1997 Mar;16(1):3–14

The oxygen effect in permeabilized and histone-depleted cells: an enhanced OER for DNA double-strand breaks, compared to single-strand breaks, is abolished by soluble scavengers. Nygren J, et al. **Int J Radiat Biol** 1997 Aug; 72(2):163–70

Salicylic acid is a modulator of tobacco and mammalian catalases. Durner J, et al. **J Biol Chem** 1996 Nov 8; 271(45):28492–501

Do nitroxide antioxidants act as scavengers of O2-. or as SOD mimics? Krishna MC, et al. **J Biol Chem** 1996 Oct 18;271(42):26026–31

Identification of flavonoid metabolites after oral administration to rats of a Ginkgo biloba extract. Pietta PG, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3; 673(1):75–80

Synthesis of monoesters of pyrroloquinoline quinone and imidazopyrroloquinoline, and radical scavenging activities using electron spin resonance in vitro and pharmacological activity in vivo. Urakami T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb;43(1):19–33

Reactive oxygen species production by the spermatozoa of patients with idiopathic infertility: relationship to seminal plasma antioxidants. Alkan I, et al. **J Urol** 1997 Jan; 157(1):140–3

Pathological aspects of active oxygens/free radicals. Nakazawa H, et al. **Jpn J Physiol** 1996 Feb;46(1):15–32 (135 ref.)

Influence of experimental spermatic cord torsion on the contralateral testis in rats. Evaluation of tissue free oxygen radical scavenger enzyme levels. Sarica K, et al. **Urol Int** 1997;58(4):208–12

PHARMACOKINETICS

[The role of oxidative stress and the preventive effect of free radical scavengers in arteriosclerosis] Fehér J, et al. **Orv Hetil** 1997 Sep 7;138(36 Suppl 2):2283–7 (Eng. Abstr.) **(Hun)**

PHARMACOLOGY

Anti-inflammatory and radical scavenge effects of Arctium lappa. Lin CC, et al. **Am J Chin Med** 1996;24(2):127–37

Oxygen-derived free radicals contribute to neural stunning in the canine heart. Miura H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1569–75

Effect of free radical scavengers on diaphragmatic fatigue. Supinski G, et al. **Am J Respir Crit Care Med** 1997 Feb; 155(2):622–9

Scavenging effect of N-acetyl-L-cysteine against reactive oxygen species in human semen: a possible therapeutic modality for male factor infertility? Oeda T, et al. **Andrologia** 1997 May-Jun;29(3):125–31

N-acetylcysteine reduces methemoglobin in vitro. Wright RO, et al. **Ann Emerg Med** 1996 Nov;28(5):499–503

Application of oxygen free radical scavengers to diminish the occurrence of myringosclerosis. Mattsson C, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):513–8

Marchantin H as a natural antioxidant and free radical scavenger. Hsiao G, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):18–26

2,3-Dihydro-5-hydroxy-2,2-dipentyl-4,6-di-tert-butylbenzofuran: design and evaluation as a novel radical-scavenging antioxidant against lipid peroxidation. Noguchi N, et al. **Arch Biochem Biophys** 1997 Jun 15; 342(2):236–43

A comparison of scavenging abilities of antioxidants against hydroxyl radicals. Ueda J, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):377–84

Histopathological evaluation on the effect of red propolis on liver damage induced by CCl4 in rats. Merino N, et al. **Arch Med Res** 1996 Autumn;27(3):285–9

Influence of various estrogens on biotransformation: affinity to cytochrome P-450, structure activity relationships, and scavenger function. Gernhardt S, et al. **Arch Pharm (Weinheim)** 1997 May;330(5):135–40

Scavenging of free radicals by tenoxicam: a participating mechanism in the antirheumatic/antiinflammatory efficacy of the drug. Maffei Facino RM, et al. **Arch Pharm (Weinheim)** 1996 Oct;329(10):457–63

Influence of selegiline and lipoic acid on the life expectancy of immunosuppressed mice. Freisleben HJ, et al. **Arzneimittelforschung** 1997 Jun;47(6):776–80

Effect of the histamine H2-receptor antagonist (+/-)-(E)-1-[2-hydroxy-2-(4-hydroxyphenyl)ethyl]-3'-[2-[[[5-methylamino) methyl-2-furyl] methyl]thio]ethyl]-2"-(methylsulfonyl)guanidine on acute gastric mucosal injury in rats and its free-radical scavenging activities. Naito Y, et al. **Arzneimittelforschung** 1997 Jul;47(7):845–8

Influence of acetylcysteine on aggravation of ischemic damage in ex vivo hearts of rats exposed to hyperbaric oxygen. Rossoni G, et al. **Arzneimittelforschung** 1997 Jun; 47(6):710–5

Free radical scavenging activity of curcuminoids. Sreejayan N, et al. **Arzneimittelforschung** 1996 Feb;46(2):169–71

Troglitazone has a scavenging effect on reactive oxygen species. Inoue I, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):113–6

Vascular effects of L-arginine: anything beyond a substrate for the NO-synthase? Wascher TC, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):35–8

Pterin-6-aldehyde, an inhibitor of xanthine oxidase, has superoxide anion radical scavenging activity. Watanabe K, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):447–50

Tempace and troxyl-novel synthesized 2,2,6,6-tetramethylpiperidine derivatives as antioxidants and radioprotectors. Metodiewa D, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1211–9

Gingko biloba extract EGb 761 is a suppresser of AP-1 transcription factor stimulated by phorbol 12-myristate 13-acetate. Mizuno M, et al. **Biochem Mol Biol Int** 1996 May;39(2):395–401

Antioxidant property of Fructus Momordicae extract. Shi H, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1111–21

Ginkgo biloba extract (EGb 761): inhibitory effect on nitric oxide production in the macrophage cell line RAW 264.7. Kobuchi H, et al. **Biochem Pharmacol** 1997 Mar 21; 53(6):897–903

Inhibition of lipid peroxidation and the active oxygen radical scavenging effect of anthocyanin pigments isolated from Phaseolus vulgaris L. Tsuda T, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1033–9

Antioxidant properties of isotorachrysone isolated from Rhamnus nakaharai. Hsiao G, et al. **Biochim Biophys Acta** 1996 Nov 14;1298(1):119–30

Inhibition of copper- and peroxyl radical-induced LDL lipid oxidation by ebselen: antioxidant actions in addition to hydroperoxide-reducing activity. Lass A, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):111–8

Protective effects of hydroxybenzoic acids and their esters on cell damage induced by hydroxyl radicals and hydrogen peroxides. Masaki H, et al. **Biol Pharm Bull** 1997 Apr; 20(4):304–8

Ascorbic acid 2-O-alpha-glucoside-induced redox modulation in human keratinocyte cell line, SCC: mechanisms of photoprotective effect against ultraviolet light B. Miyai E, et al. **Biol Pharm Bull** 1997 Jun; 20(6):632–6

Hydroxyl radical scavenging activity of naturally occurring furan fatty acids. Okada Y, et al. **Biol Pharm Bull** 1996 Dec;19(12):1607–10

Free radical scavengers suppress the accumulation of platinum in the cerebral cortex. Minami T, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):1–7

Captopril has no significant scavenging antioxidant activity in human plasma in vitro or in vivo [letter] Benzie IF, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):209–10

Self-limiting enhancement by nitric oxide of oxygen free radical-induced endothelial cell injury: evidence against the dual action of NO as hydroxyl radical donor/scavenger. Az-ma T, et al. **Br J Pharmacol** 1996 Oct;119(3):455–62

Inhibition by singlet molecular oxygen of the vascular reactivity in rabbit mesenteric artery. Mizukawa H, et al. **Br J Pharmacol** 1997 May;121(1):63–70

A perfusion solution containing an antithrobotic agent and an oxygen free radical scavenger has a beneficial effect on postischaemic oedema and skin flap survival [letter; comment] Knight KR, et al. **Br J Plast Surg** 1996 Sep; 49(6):424–5. Comment on: Br J Plast Surg 1996 Sep;49(6):424.

N-acetylcysteine protects against age-related increase in oxidized proteins in mouse synaptic mitochondria. Banaclocha MM, et al. **Brain Res** 1997 Jul 11; 762(1-2):256–8

Inhibition of free radical production or free radical scavenging protects from the excitotoxic cell death mediated by glutamate in cultures of cerebellar granule neurons. Ciani E, et al. **Brain Res** 1996 Jul 22;728(1):1–6

Postnatal retinal ganglion cells in vitro: protection against reactive oxygen species (ROS)-induced axonal degeneration by cocultured astrocytes. Lucius R, et al. **Brain Res** 1996 Dec 16;743(1-2):56–62

The lazaroid U-83836E improves the survival of rat embryonic mesencephalic tissue stored at 4 degrees C and subsequently used for cultures or intracerebral transplantation. Grasbon-Frodl EM, et al. **Brain Res Bull** 1996;39(6):341–7

Increased microvascular permeability induced by prolonged interleukin-2 administration is attenuated by the oxygen-free-radical scavenger dimethylthiourea. Gutman M, et al. **Cancer Immunol Immunother** 1996 Dec;43(4):240–4

EUK-8 a synthetic catalytic scavenger of reactive oxygen species protects isolated iron-overloaded rat heart from functional and structural damage induced by ischemia/reperfusion. Pucheu S, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):331–9

Pharmacology of carvedilol: rationale for use in hypertension, coronary artery disease, and congestive heart failure. Ruffolo RR Jr, et al. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:247–56 (77 ref.)

Hydroxyl radical scavenging effect of nicaraven in myocardial and coronary endothelial preservation and reperfusion injury. Alam MS, et al. **Cardiovasc Res** 1997 Mar;33(3):686–92

Effect of melatonin on NF-kappa-B DNA-binding activity in the rat spleen. Chuang JI, et al. **Cell Biol Int** 1996 Oct; 20(10):687–92

Platelet activation by superoxide anion and hydroxyl radicals intrinsically generated by platelets that had undergone anoxia and then reoxygenated [see comments] Leo R, et al. **Circulation** 1997 Feb 18;95(4):885–91. Comment in: Circulation 1997 Feb 18;95(4):787–9.

The vitamin-E derivative U-83836-E in the low-dose streptozocin- treated mouse: effects on diabetes development. Papaccio G, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):163–71

Effects of Ginkgo biloba extract and preconditioning on the diabetic rat myocardium. Tosaki A, et al. **Diabetologia** 1996 Nov;39(11):1255–62

Teratogenic effect of diabetic serum is prevented by supplementation of superoxide dismutase and N-acetylcysteine in rat embryo culture. Wentzel P, et al. **Diabetologia** 1997 Jan;40(1):7–14

Gastric mucosal injury induced by local ischemia-reperfusion in rats. Role of endogenous endothelin-1 and free radical. Hassan M, et al. **Dig Dis Sci** 1997 Jul;42(7):1375–80

Effects of Ginkgo biloba extract (EGb 761) on cochlear vasculature in the guinea pig: morphometric measurements and laser Doppler flowmetry. Didier A, et al. **Eur Arch Otorhinolaryngol** 1996;253(1-2):25–30

The effect of propofol and thiopentone on impairment by reactive oxygen species of endothelium-dependent relaxation in rat aortic rings. Kelicen P, et al. **Eur J Anaesthesiol** 1997 May;14(3):310–5

In vivo effect of OPC15161, a superoxide scavenger, on anti-Thy1 nephritis. Hamada N, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):123–8

Comparison of the cardiovascular effects of two novel superoxide dismutase mimetics, SC-55858 and SC-54417, in conscious dogs. Lowe D, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):81–6

Involvement of superoxide and nitric oxide in the genesis of reperfusion arrhythmias in rats. Ohoi I, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):123–31

Effects of pyrroloquinoline quinone on glutamate-induced production of reactive oxygen species in neurons. Scanlon JM, et al. **Eur J Pharmacol** 1997 May 12;326(1):67–74

Effect of cystathionine as a scavenger of superoxide generated from human leukocytes or derived from xanthine oxidase in vitro. Wada K, et al. **Eur J Pharmacol** 1996 Feb 5;296(3):335–40

Improvement of hepatic microhemodynamics by N-acetylcysteine after warm ischemia. Koeppel TA, et al. **Eur Surg Res** 1996 Jul-Aug;28(4):270–7

Mesencephalic neuron death induced by congeners of nitrogen monoxide is prevented by the lazaroid U-83836E. Grasbon-Frodl EM, et al. **Exp Brain Res** 1997 Jan; 113(1):138–43

Decrease in gamma-glutamyltransferase activity in rat type II cells exposed in vitro to hyperoxia: effects of the 21-aminosteroid U-74389G. van Klaveren RJ, et al. **Exp Lung Res** 1997 Jul-Aug;23(4):347–59

Combination therapy with MK-801 and alpha-phenyl-tert-butyl-nitrone enhances protection against ischemic neuronal damage in organotypic hippocampal slice cultures. Barth A, et al. **Exp Neurol** 1996 Oct;141(2):330–6

Confirmation that magnesium lithospermate B has a hydroxyl

radical-scavenging action. Yokozawa T, et al. **Exp Toxicol Pathol** 1995 Nov;47(5):341-4

Antioxidant properties of hydroxy-flavones. Cotelle N, et al. **Free Radic Biol Med** 1996;20(1):35-43

Effects of lazaroids and a peroxynitrite scavenger in a cell model of peroxynitrite toxicity. Fici GJ, et al. **Free Radic Biol Med** 1997;22(1-2):223-8

Inhibition of human neutrophil binding to hydrogen peroxide-treated endothelial cells by cAMP and hydroxyl radical scavengers. Franzini E, et al. **Free Radic Biol Med** 1996;21(1):15-23

Kinetics and dynamics of singlet oxygen scavenging by alpha-tocopherol in phospholipid model membranes. Fukuzawa K, et al. **Free Radic Biol Med** 1997;22(5):923-30

Hydrogen bond formation as basis for radical scavenging activity: a structure-activity study of C-methylated dihydrochalcones from Myrica gale and structurally related acetophenones. Mathiesen L, et al. **Free Radic Biol Med** 1997;22(1-2):307-11

Possible involvement of free radical scavenging properties in the action of tumor necrosis factor-alpha. Matsubara N, et al. **Free Radic Biol Med** 1997;22(4):679-87

Interference of carboxy-PTIO with nitric oxide- and peroxynitrite-mediated reactions. Pfeiffer S, et al. **Free Radic Biol Med** 1997;22(5):787-94

Ginkgo biloba attenuates oxidative stress in macrophages and endothelial cells. Rong Y, et al. **Free Radic Biol Med** 1996; 20(1):121-7

Thiourea and dimethylthiourea inhibit peroxynitrite-dependent damage: nonspecificity as hydroxyl radical scavengers. Whiteman M, et al. **Free Radic Biol Med** 1997;22(7):1309-12

Effects of ferulic acid on fertile and asthenozoospermic infertile human sperm motility, viability, lipid peroxidation, and cyclic nucleotides. Zheng RL, et al. **Free Radic Biol Med** 1997;22(4):581-6

The copper complex of captopril is not a superoxide dismutase mimic. Artefacts in DMPO spin trapping. Bartosz M, et al. **Free Radic Res** 1996 May;24(5):391-6

Scavenging of hypochlorous acid by carvedilol and ebselen in vitro. Aruoma OI. **Gen Pharmacol** 1997 Feb;28(2):269-72

Effects of different antioxidants on lens-induced uveitis. Koch FH, et al. **Ger J Ophthalmol** 1996 Jul;5(4):185-8

Variable efficacy of radical scavengers and iron chelators to attenuate gentamicin ototoxicity in guinea pig in vivo. Song BB, et al. **Hear Res** 1996 May;94(1-2):87-93

H2O2-induced lipid peroxidation in mitochondria of pulmonary vascular smooth muscle tissue and its modification by DFO, DMTU and DIDS. Roychoudhury S, et al. **Indian J Exp Biol** 1996 Dec;34(12):1220-3

Human neutrophil NADPH-oxidase activity is inhibited by lazaroids. Theron AJ, et al. **Inflammation** 1996 Apr; 20(2):139-50

Glutathione protects a human insulinoma cell line from tumor necrosis factor-alpha-mediated cytotoxicity. Cavallo MG, et al. **Int J Clin Lab Res** 1997;27(1):44-7

The effect of serum albumin on the radiolysis of DNA studied by constant field electrophoresis and compared to alterations caused by low molecular weight OH. scavengers. Distel LV, et al. **Int J Radiat Biol** 1997 Apr; 71(4):401-12

Inhibitory effects of a phosphate diester of alpha-tocopherol and ascorbic acid (EPC-K1) on myocardial infarction in rats. Kuribayashi Y, et al. **Int J Tissue React** 1996; 18(2-3):73-9

Effect of lipid peroxidation inhibition on retinal ganglion cell death. Levin LA, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2744-9

An application of electron paramagnetic resonance to evaluate nitric oxide and its quenchers. Yoshioka T, et al. **J Am Soc Nephrol** 1996 Jun;7(6):961-5

Formobactin, a novel free radical scavenging and neuronal cell protecting substance from Nocardia sp. Murakami Y, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):839-45

N-acetylcysteine administration alters the response to inspiratory loading in oxygen-supplemented rats. Supinski GS, et al. **J Appl Physiol** 1997 Apr;82(4):1119-25

How can we protect our endothelium? [editorial] Hakim A, et al. **J Assoc Physicians India** 1995 Feb;43(2):85-7 (27 ref.)

Carvedilol protects against lethal reperfusion injury through antiadrenergic mechanisms. Brunvand H, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):409-17

Studies of vascular tolerance to nitroglycerin: effects of N-acetylcysteine, NG-monomethyl L-arginine, and endothelin-1. Lawson DL, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):418-24

The antioxidant activity of Chinese herbs for eczema and of placebo herbs--I. Kirby AJ, et al. **J Ethnopharmacol** 1997 Apr;56(2):103-8

Oxygen radicals released during ischemic preconditioning contribute to cardioprotection in the rabbit myocardium. Baines CP, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):207-16

New indole derivatives with free radical scavenging activity from Agrocybe cylindracea. Kim WG, et al. **J Nat Prod** 1997 Jul;60(7):721-3

Lazaroid treatment prevents death of cultured rat embryonic mesencephalic neurons following glutathione depletion. Grasbon-Frodl EM, et al. **J Neurochem** 1996 Oct; 67(4):1653-60

Reduction of lower motor neuron degeneration in wobbler mice by N-acetyl-L-cysteine. Henderson JT, et al. **J Neurosci** 1996 Dec 1;16(23):7574-82

Protective effect of a novel free radical scavenger, OPC-14117, on wobbler mouse motor neuron disease. Abe K, et al. **J Neurosci Res** 1997 Apr 1;48(1):63-70

Experimental electroretinographic exploration of retinal ischemia: preventive use of free radical scavengers and anti-PAF agents. Menerath JM, et al. **J Ocul Pharmacol Ther** 1997 Feb;13(1):81-8

Nitric oxide scavenging by curcuminoids. Sreejayan, et al. **J Pharm Pharmacol** 1997 Jan;49(1):105-7

Polyhydroxylated C60, fullerenol, a novel free-radical trapper, prevented hydrogen peroxide- and cumene hydroperoxide-elicited changes in rat hippocampus in-vitro. Tsai MC, et al. **J Pharm Pharmacol** 1997 Apr; 49(4):438-45

Dipalmitoylphosphatidylcholine/linoleic acid mixed unilamellar vesicles as model membranes for studies on novel free-radical scavengers. Castelli F, et al. **J Pharmacol Toxicol Methods** 1997 Apr;37(3):135-41

Melatonin attenuates L-cysteine-induced seizures and lipid peroxidation in the brain of mice. Yamamoto H, et al. **J Pineal Res** 1996 Sep;21(2):108-13

Effects of urinastatin and free radical scavengers on hepatic lipid peroxidation in endotoxemia. Htwe T, et al. **J Surg Res** 1996 Feb 15;61(1):206-14

An experimental study of the effect of ginkgo biloba extract on the human and rabbit corpus cavernosum tissue. Paick JS, et al. **J Urol** 1996 Nov;156(5):1876-80

Vasodilatory effects of a salen-manganese complex with potent oxyradical scavenger activities. Barandier C, et al. **J Vasc Res** 1997 Jan-Feb;34(1):49-57

Suppression of ischemic edema in mice by manganese-hyaluronate conjugate. Sakurai K, et al. **Jpn J Pharmacol** 1997 May;74(1):117-20

Free radical scavenging activities of mushroom polysaccharide extracts. Liu F, et al. **Life Sci** 1997; 60(10):763-71

Pharmacological actions of melatonin in oxygen radical pathophysiology. Reiter R, et al. **Life Sci** 1997; 60(25):2255-71 (103 ref.)

Antioxidant function of ambroxol in mononuclear and polymorphonuclear cells in vitro. Gillissen A, et al. **Lung** 1997;175(4):235-42

Age-related increase in nitric oxide synthase activity in senescence accelerated mouse brain and the effect of long-term administration of superoxide radical scavenger. Inada K, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):95-102

Hydroxyl radical-scavenging property of secoisolariciresinol diglucoside (SDG) isolated from flax-seed. Prasad K. **Mol Cell Biochem** 1997 Mar;168(1-2):117-23

Inhibition of human lymphocyte function by organic solvents. Shoker AS, et al. **Mol Cell Biochem** 1997 Jun; 171(1-2):49-58

Effects of reactive oxygen species (ROS) modulators, TEMPOL and catalase, on methoxyacetaldehyde (MALD) -induced chromosome aberrations in Chinese hamster ovary (CHO)-AS52 cells. Ratanavalachai TC, et al. **Mutat Res** 1996 Oct 25;357(1-2):25-33

Reversal of peripheral nerve conduction and perfusion deficits by the free radical scavenger, BM15.0639, in diabetic rats. Cameron NE, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 352(6):685-90

In vivo effect of hydroxyl radical scavenger on methylguanidine production from creatinine [letter] Yokozawa T, et al. **Nephron** 1997;75(1):103-5

Magnesium lithospermate B suppresses the increase of active oxygen in rats after subtotal nephrectomy. Yokozawa T, et al. **Nephron** 1997;75(1):88-93

Free radical scavenging activity of the Japanese herbal medicine toki-shakuyaku-san (TJ-23) and its effect on superoxide dismutase activity, lipid peroxides, glutamate, and monoamine metabolites in aged rat brain. Ueda Y, et al. **Neurochem Res** 1996 Aug;21(8):909-14

Free radical scavenging effects of melatonin and serotonin: possible mechanism. Daniels WM, et al. **Neuroreport** 1996 Jul 8;7(10):1593-6

Preventive effect of Ginkgo biloba extract on apoptosis in rat cerebellar neuronal cells induced by hydroxyl radicals. Ni Y, et al. **Neurosci Lett** 1996 Aug 23;214(2-3):115-8

Brain attack. Acute therapeutic interventions. Free radical scavengers and antioxidants. Hall ED. **Neurosurg Clin N Am** 1997 Apr;8(2):195-206 (78 ref.)

Attenuation of ischemia-reperfusion injury in the rat neocortex by the hydroxyl radical scavenger nicaraven. Toyoda T, et al. **Neurosurgery** 1997 Feb;40(2):372-7; discussion 377-8

Effects of the 21-amino steroid tirilazad mesylate (U-74006F) on brain damage and edema after perinatal hypoxia-ischemia in the rat. Bågenholm R, et al. **Pediatr Res** 1996 Sep;40(3):399-403

Lipid peroxide, phospholipids, glutathione levels and superoxide dismutase activity in rat brain after ischaemia: effect of ginkgo biloba extract. Seif-El-Nasr M, et al. **Pharmacol Res** 1995 Nov;32(5):273-8

Pharmacology of lazaroids and brain energy metabolism: a review. Villa RF, et al. **Pharmacol Rev** 1997 Mar; 49(1):99-136 (274 ref.)

Action of reactive oxygen species and their antagonists on twitch tension of the rat phrenic nerve-diaphragm. Crosland RD. **Pharmacol Toxicol** 1995 Sep;77(3):231-7

C-methylated dihydrochalcones from Myrica gale L: effects as antioxidants and as scavengers of 1,1-diphenyl-2-picrylhydrazyl. Malterud KE, et al. **Pharmacol Toxicol** 1996 Feb;78(2):111-6

Ginkgo biloba extract (EGb 761) independently improves changes in passive avoidance learning and brain membrane fluidity in the aging mouse. Stoll S, et al. **Pharmacopsychiatry** 1996 Jul;29(4):144-9

Scavenging effect of tetrandrine of active oxygen radicals. Cao ZF. **Planta Med** 1996 Oct;62(5):413-4

Echinacoside and caffeoyl conjugates protect collagen from free radical-induced degradation: a potential use of Echinacea extracts in the prevention of skin photodamage. Facino RM, et al. **Planta Med** 1995 Dec;61(6):510-4

Radical scavenger activity of three flavonoid metabolites studied by inhibition of chemiluminescence in human PMNs. Merfort I, et al. **Planta Med** 1996 Aug;62(4):289-92

Alpha-tocopheryl hydroquinone is an efficient multifunctional inhibitor of radical-initiated oxidation of low density lipoprotein lipids. Neuzil J, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7885-90

Monte Carlo simulation of physicochemical processes of liquid water radiolysis. The effects of dissolved oxygen and OH scavenger. Tomita H, et al. **Radiat Environ Biophys** 1997 Jun;36(2):105-16

Oxygen free radical scavenging abilities of vitamins C and E, and a grape seed proanthocyanidin extract in vitro. Bagchi D, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):179-89

Enhancement of glycolysis and CO2 formation from glycerol by hydroxyl radical scavengers in rat hepatocytes. Gerber E, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct; 94(1):63-71

Inhibitory effects of Chinese ant extract (CAE) on nephrotoxicity induced by ferric-nitrilotriacetate (Fe-NTA) in Wistar rats. Ma Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):169-78

Lipid peroxidation inhibited by monoamines. Miura T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):57-67

Gliclazide scavenges hydroxyl, superoxide and nitric oxide radicals: an ESR study. Noda Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):115-24

Free radical scavenging properties of alacepril metabolites and lisinopril. Noda Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):125-36

Investigation of the effect of chamazulene on lipid peroxidation and free radical processes. Rekka EA, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun;92(3):361-4

Interaction between fulvic acids of different origins and active oxygen radicals. Wang C, et al. **Sci China C Life Sci** 1996 Jun;39(3):267-75

Superoxide radical scavenging prevents cellular calcium dysregulation during intraabdominal sepsis. Rose S, et al. **Shock** 1997 Apr;7(4):263-8

Novel "scavestrogens" and their radical scavenging effects, iron-chelating, and total antioxidative activities: delta 8,9-dehydro derivatives of 17 alpha-estradiol and 17 beta-estradiol. Römer W, et al. **Steroids** 1997 Mar; 62(3):304-10

Free radical scavenging by lazaroids improves renal blood flow during sepsis. Krysztopik RJ, et al. **Surgery** 1996 Oct; 120(4):657-62

Cimetidine enhances the hepatoprotective action of N-acetylcysteine in mice treated with toxic doses of paracetamol. Al-Mustafa ZH, et al. **Toxicology** 1997 Sep 5;121(3):223-8

Assessment of oxygen radicals during kidney transplantation--effect of radical scavenger. Hower R, et al. **Transpl Int** 1996;9 Suppl 1:S479-82

The role of a hydroxyl radical scavenger (nicaraven) in recovery of cardiac function following preservation and reperfusion. Ku K, et al. **Transplantation** 1996 Oct 27; 62(8):1090-5

[Clinical study on anti-senility effect of kuangquan 851 oral liquor type R and type Y] Lin QC, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):149-52 (Eng. Abstr.) **(Chi)**

[Effect of er-xian decoction and its disassembled prescription on enzyme activities and their gene expression of antioxidant enzymes in aging rat] Shen XH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Nov; 15(11):672-4 (Eng. Abstr.) **(Chi)**

[Inhibitory effect of radix et rhizoma Rhei on the production of lipid peroxides (LPO) in mice liver] Wu Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr;21(4):240-2 inside backcover (Eng. Abstr.) **(Chi)**

[Shichimotsu-koka-to prevents stroke and changes free-radical-related enzymes in stroke-prone spontaneously hypertensive rats (SHRSP)] Higuchi Y, et al. **Nippon Yakurigaku Zasshi** 1996 Jul;108(1):13-22 (Eng. Abstr.) **(Jpn)**

[Effectiveness of a substance protecting against aging depends on the viability of an experimental population. Study of the life expectancy of D. melanogaster] Izmaĭlov DM, et al. **Dokl Akad Nauk** 1997 Feb;352(4):565-7 **(Rus)**

[Antiradical and antioxidant properties of probucol and its structural analogs during oxidation of unsaturated phospholipids in native and artificial membranes] Lankin VZ, et al. **Dokl Akad Nauk** 1996 Dec;351(4):554-7 **(Rus)**

THERAPEUTIC USE

Reduced ischemia-reperfusion injury in muscle. Experiments

in rats with EPC-K1, a new radical scavenger. Hirose J, et al. **Acta Orthop Scand** 1997 Aug;68(4):369-73

Controlled reperfusion after myocardial ischemia in a canine model monitored by two-dimensional phosphorus 31 chemical shift spectroscopic imaging. Campbell CM, et al. **Am Heart J** 1997 May;133(5):508-16

N-acetylcysteine attenuates nitroglycerin tolerance in patients with angina pectoris and normal left ventricular function. Pizzulli L, et al. **Am J Cardiol** 1997 Jan 1; 79(1):28-33

Comparative effects of colchicine and silymarin on CCl4-chronic liver damage in rats. Favari L, et al. **Arch Med Res** 1997 Spring;28(1):11-7

Drug-induced hypersensitivity syndrome and toxic epidermal necrolysis. Treatment with N-acetylcysteine [letter] Redondo P, et al. **Br J Dermatol** 1997 Apr; 136(4):645-6

Superoxide dismutase and catalase in protection of cardiopulmonary bypass-induced cardiac dysfunction and cellular injury. Prasad K, et al. **Can J Cardiol** 1996 Oct; 12(10):1083-91

Ginkgo biloba extract (EGb 761) pretreatment limits free radical-induced oxidative stress in patients undergoing coronary bypass surgery. Pietri S, et al. **Cardiovasc Drugs Ther** 1997 Apr;11(2):121-31

Prevention and suppression of autoimmune encephalomyelitis by EUK-8, a synthetic catalytic scavenger of o::ygen-reactive metabolites. Malfroy B, et al. **Cell Immunol** 1997 Apr 10;177(1):62-8

A trial of antioxidants N-acetylcysteine and procysteine in ARDS. The Antioxidant in ARDS Study Group. Bernard GR, et al. **Chest** 1997 Jul;112(1):164-72

N-acetylcysteine in combination with nitroglycerin and streptokinase for the treatment of evolving acute myocardial infarction: safety and biochemical effects [letter; comment] Simon K, et al. **Circulation** 1996 Oct 1;94(7):1791 . Comment on: Circulation 1995 Nov 15;92(10):2855-62.

Infarct Size Limitation: acute N-acetylcysteine defense (ISLAND trial): preliminary analysis and report after the first 30 patients. Sochman J, et al. **Clin Cardiol** 1996 Feb; 19(2):94-100

On the protection by ketorolac of reperfusion-induced heart damage. Chávez E, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Sep;115(1):95-100

N-acetylcysteine improves indocyanine green extraction and oxygen transport during hepatic dysfunction. Devlin J, et al. **Crit Care Med** 1997 Feb;25(2):236-42

Effect of N-acetylcysteine(NAC) treatment on HIV-1 infection: a double-blind placebo-controlled trial. Akerlund B, et al. **Eur J Clin Pharmacol** 1996;50(6):457-61

Treatment with bifemelane for optic nerve damage following high intraocular pressure in rat eyes. Adachi M, et al. **Eur J Ophthalmol** 1996 Oct-Dec;6(4):415-20

Reduction of traumatic brain injury-induced cerebral oedema by a free radical scavenger. Petty MA, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):149-55

Effect of the 21-aminosteroid U-74006F on antigen-induced bronchoconstriction and bronchoalveolar eosinophilia in allergic sheep. Fujimoto K, et al. **Eur Respir J** 1996 Oct; 9(10):2044-9

Myocardium-protective effects of Ginkgo biloba extract (EGb 761) in old rats against acute isobaric hypoxia. An electron microscopic morphometric study. I. Protection of cardiomyocytes. Fitzl G, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):33-9

Effect of MCI-186 on postischemic reperfusion injury in isolated rat heart. Minhaz U, et al. **Free Radic Res** 1996 May;24(5):361-7

Are the reactive oxygen-derived species (ROS) interactive properties of the many therapeutic drugs from various categories pertinent to their beneficial effects? Cash CD. **Gen Pharmacol** 1997 Feb;28(2):169-75 (113 ref.)

Superoxide anions produced by inflammatory cells play an important part in the pathogenesis of acid and pepsin induced oesophagitis in rabbits. Naya MJ, et al. **Gut** 1997 Feb;40(2):175-81

Oxidative damage in the liver induced by ischemia-reperfusion: protection by melatonin. Sewerynek E, et al. **Hepatogastroenterology** 1996 Jul-Aug; 43(10):898-905

The ability of bile to scavenge superoxide radicals and pigment gallstone formation in guinea pigs. Lin C, et al. **HPB Surg** 1996;10(2):73-6; discussion 76-7

Hepatotoxicity of N, N-dimethylformamide (DMF) in acute poisoning with the veterinary euthanasia drug T-61. Buylaert W, et al. **Hum Exp Toxicol** 1996 Aug;15(8):607-11

Pharmacological protection of NSAID-induced intestinal permeability in the rat: effect of tempo and metronidazole as potential free radical scavengers. Davies NM, et al. **Hum Exp Toxicol** 1997 Jul;16(7):345-9

The effect of trimetazidine on reperfusion arrhythmias in acute myocardial infarction. Papadopoulos CL, et al. **Int J Cardiol** 1996 Jul 26;55(2):137-42

N-acetylcysteine pretreatment of cardiac surgery patients influences plasma neutrophil elastase and neutrophil influx in bronchoalveolar lavage fluid. De Backer WA, et al. **Intensive Care Med** 1996 Sep;22(9):900-8

Paracetamol poisoning: the action line and the timing of acetylcysteine therapy [editorial] [see comments] Delanty N, et al. **Ir Med J** 1996 Sep-Oct;89(5):156, 158 (20 ref.) . Comment in: Ir Med J 1997 Jan-Feb;90(1):38.

DOs should be source of patients' education [editorial] Rosner HM. **J Am Osteopath Assoc** 1996 Feb;96(2):85

Chronic treatment in vivo with dimethylthiourea, a hydroxyl radical scavenger, prevents diabetes-induced endothelial dysfunction. Pieper GM, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):741-5

Effects of oxygen radical scavengers on the quality of gastric ulcer healing in rats. Naito Y, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S82-6

Coronary artery disease and antioxidants—is there a role for carvedilol? Landray MJ, et al. **J Clin Pharm Ther** 1997 Feb;22(1):3-5 (26 ref.)

The neurochemistry of Parkinson's disease—comments on present and future developments. Hucho F. **J Neural Transm Suppl** 1995;46:59-65 (22 ref.)

Neuroprotective effects of hypothermia and U-78517F in cerebral ischemia are due to reducing oxygen-based free radicals: an electron paramagnetic resonance study with gerbils. Zhao W, et al. **J Neurosci Res** 1996 Aug 1; 45(3):282-8

Thrombolysis at a controlled pressure prolongs the survival of skin flaps treated with superoxide dismutase. Hirigoyen MB, et al. **J Reconstr Microsurg** 1996 Apr;12(3):195-9

Limiting impairment of muscle function following ischemia and reperfusion in rabbits. Zavitsanos G, et al. **J Reconstr Microsurg** 1996 Apr;12(3):183-7

Pharmacology of the aminosteroids in brain diseases. Jakobsen M. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:81-2

Modulation of ultraviolet light-induced epidermal damage: beneficial effects of tocopherol. Ritter EF, et al. **Plast Reconstr Surg** 1997 Sep;100(4):973-80

Attenuation of airway hyperresponsiveness during acute viral infection using the 21-aminosteroid U-83836E in rats. Sorkness R, et al. **Pulm Pharmacol** 1996 Aug;9(4):219-22

Experimental thrombosis model induced by laser beam. Application of aspirin and an extract of Ginkgo biloba: EGb 761. Belougne E, et al. **Thromb Res** 1996 Jun 1; 82(5):453-8

Cochlear protection from carbon monoxide exposure by free radical blockers in the guinea pig. Fechter LD, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):47-55

The beneficial effects of anisodamine for CyA hepatotoxicity in the rat and in renal-transplant recipients. Wang X, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):286-7

Outpatient N-acetylcysteine treatment for acetaminophen poisoning: an ethical dilemma or a new financial mandate? Dean BS, et al. **Vet Hum Toxicol** 1996 Jun;38(3):222-4

[Effect of shengmaisan on serum lipid peroxidation in acute viral myocarditis] Zhao MH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):142-5 (Eng. Abstr.) **(Chi)**

[Exploratory study of amitriptyline resistance in depressed patients: results of WHO French collaborating center on depressions resistant to treatments] Loas G, et al. **Ann Med Psychol (Paris)** 1996 Jun;154(3):202-3 (Eng. Abstr.) **(Fre)**

[Placebo-controlled double-blind study of the effectiveness of Ginkgo biloba special extract EGb 761 in trained patients with intermittent claudication] Blume J, et al. **Vasa** 1996; 25(3):265-74 (Eng. Abstr.) **(Ger)**

[Protective effect of L-histidine (singlet oxygen scavenger) on transient forebrain ischemia in the rat] Kawamoto T, et al. **No To Shinkei** 1997 Jul;49(7):612-8 (Eng. Abstr.) **(Jpn)**

[Antiradical and antioxidant activity of derivatives of 1,2,4-triazole and quinazoline in cerebral ischemia] Dunaev VV, et al. **Ukr Biokhim Zh** 1996 Jan-Feb;68(1):100-4 (Eng. Abstr.) **(Rus)**

[Local immune defects--products of free oxygen radicals] Drobný M, et al. **Bratisl Lek Listy** 1997 Apr;98(4):204-8 (Eng. Abstr.) **(Slo)**

TOXICITY

Bioactivation of 6,7-dimethyl-2,4-di-1-pyrrolidinyl-7H-pyrrolo[2,3-d]pyrimidine (U-89843) to reactive intermediates that bind covalently to macromolecules and produce genotoxicity. Zhao Z, et al. **Chem Res Toxicol** 1996 Dec;9(8):1230-9

Enzymatic oxidation products of allelochemicals as a basis for resistance against insects: effects on the corn leafhopper Dalbulus maidis. Dowd PF, et al. **Nat Toxins** 1996; 4(2):85-91

Comparative QSAR: radical toxicity and scavenging. Two different sides of the same coin. Hansch C, et al. **SAR QSAR Environ Res** 1995;4(2-3):73-82

FREE RADICALS

see related

SPIN TRAPPING

Biochemistry and pathology of radical-mediated protein oxidation. Dean RT, et al. **Biochem J** 1997 May 15;324 (Pt 1):1-18 (312 ref.)

Occurrence of enzymes of free radical metabolism suggests the possible cytotoxic capacity of the transitional epithelium of the human ureter. Schindelmeiser J, et al. **Cell Tissue Res** 1997 Feb;287(2):351-6

Vitamins and minerals. Proceedings of a workshop. Milan, Italy, July 1996. **Eur J Cancer Prev** 1997 Mar;6 Suppl 1:S1-83

Identification of radical adducts formed in the reactions of unsaturated fatty acids with soybean lipoxygenase using continuous flow fast atom bombardment with tandem mass spectrometry. Iwahashi H, et al. **Free Radic Res** 1996 Sep; 25(3):255-74

N-(4-hydroxyphenyl)retinamide activation of a distinct pathway signaling apoptosis [editorial; comment] Dmitrovsky E. **J Natl Cancer Inst** 1997 Aug 20; 89(16):1179-81. Comment on: J Natl Cancer Inst 1997 Aug 20;89(16):1191-8.

Involvement of reactive oxygen species in N-(4-hydroxyphenyl)retinamide-induced apoptosis in cervical carcinoma cells [see comments] Oridate N, et al. **J Natl Cancer Inst** 1997 Aug 20;89(16):1191-8. Comment in: J Natl Cancer Inst 1997 Aug 20;89(16):1179-81.

EPR detection of free radicals in UV-irradiated skin: mouse versus human. Jurkiewicz BA, et al. **Photochem Photobiol** 1996 Dec;64(6):918-22

Free radical pathology in schizophrenia: a review. Reddy RD, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Aug;55(1-2):33-43 (137 ref.)

Investigation of the effect of chamazulene on lipid peroxidation and free radical processes. Rekka EA, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun;92(3):361-4

Role of free radicals in gastrointestinal cancer. Salim AS. **Singapore Med J** 1996 Jun;37(3):295-8 (42 ref.)

[Role of free radicals, telomeres, and telomerases in aging and cancerogenesis] La Torre F, et al. **Minerva Med** 1997 May;88(5):205-14 (126 ref.) (Eng. Abstr.) **(Ita)**

[Free radical scavengers] Kondo T, et al. **No To Shinkei** 1996 Dec;48(12):1099-113 (87 ref.) **(Jpn)**

[Free radicals: concepts, associated diseases, defense system and oxidative stress] Ferreira AL, et al. **Rev Assoc Med Bras** 1997 Jan-Mar;43(1):61-8 (54 ref.) **(Por)**

[The effect of surgery on free-radical reactions in patients with lung cancer] Khyshiktuev BS, et al. **Vopr Onkol** 1996; 42(6):23-7 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Nitric oxide regulation of tissue free radical injury. Rubbo H, et al. **Chem Res Toxicol** 1996 Jul-Aug;9(5):809-20 (135 ref.)

Free radical induced diseases. Ansari KU. **J Indian Med Assoc** 1996 Jun;94(6):238-9

Tocopherols and the etiology of colon cancer. Stone WL, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1006-14 (95 ref.)

[The role of free radicals in the etiopathogenesis of systemic sclerosis] Komosińska K, et al. **Postepy Hig Med Dosw** 1997;51(3):285-303 (99 ref.) (Eng. Abstr.) **(Pol)**

ANALYSIS

Present status of electron paramagnetic resonance (EPR) spectroscopy/imaging for free radical detection. Ferrari M, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R267-8

Free radical activity associated with the surface of particles: a unifying factor in determining biological activity? Donaldson K, et al. **Toxicol Lett** 1996 Nov;88(1-3):293-8

[Detection of bioradicals by in vivo ESR spectrometry] Fujii H. **Seikagaku** 1997 Apr;69(4):250-4 (13 ref.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Endogenous biologic defenses to free radicals. Isaac L. **Surg Neurol** 1997 Jun;47(6):583

BLOOD

Influence of ACTH-(1-24) on free radical levels in the blood of haemorrhage-shocked rats: direct ex vivo detection by electron spin resonance spectrometry. Guarini S, et al. **Br J Pharmacol** 1996 Sep;119(1):29-34

Pharmacokinetic analysis of free radicals by in vivo BCM (Blood Circulation Monitoring)-ESR method. Takechi K, et al. **Free Radic Res** 1997 Jun;26(6):483-96

Prolonged granulocyte activation, as well as hypoxanthine and free radical production after open heart surgery in children. Pesonen EJ, et al. **Intensive Care Med** 1996 May; 22(5):500-6

Direct current shocks to the heart generate free radicals: an electron paramagnetic resonance study. Caterine MR, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1598-609

[The age-dependent incidence of Down's syndrome and the free-radical theory] Arbuzova SB. **Tsitol Genet** 1996 Sep-Oct;30(5):27-35 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Generation of free radicals during lipid hydroperoxide-triggered apoptosis in PC12h cells. Aoshima H, et al. **Biochim Biophys Acta** 1997 Mar 10; 1345(1):35-42

CHEMISTRY

Application of computational chemistry in the study of biologically reactive intermediates. Anders MW, et al. **Adv Exp Med Biol** 1996;387:347-53 (13 ref.)

The use of data on biologically reactive intermediates in risk assessment. Buchanan JR, et al. **Adv Exp Med Biol** 1996; 387:429-37 (19 ref.)

Free radicals produced during the oxidation of hydrazines by hypochlorous acid. Goodwin DC, et al.

FREE RADICALS

Chem Res Toxicol 1996 Dec;9(8):1333–9

Free radicals in rabbit retina under ocular hyperpressure and functional consequences. Muller A, et al. **Exp Eye Res** 1997 Apr;64(4):637–43

A new spiro[indoline–naphthoxazinic] spin trapping agent. Campredon M, et al. **Free Radic Res** 1997 Jun;26(6):529–36

A water soluble C–nitroso–aromatic spin–trap–3,5–dibromo–4–nitrosobenzenesulphonic acid. "The Perkins spin–trap'. Kaur H. **Free Radic Res** 1996 Jun; 24(6):409–20 (63 ref.)

When is a radical not a radical? Naughton DP, et al. **Free Radic Res** 1996 Jul;25(1):1–3

Trichloroethylene radicals generated by ionizing radiation. An EPR/spin trapping study. Carmichael AJ, et al. **Hum Exp Toxicol** 1997 Jun;16(6):334–42

METABOLISM

Free radical–induced oxidation of glycerophosphocholine lipids and formation of biologically active products. Murphy RC. **Adv Exp Med Biol** 1996;416:51–8 (27 ref.)

Cytochrome P–450 and free radical generation in rat liver microsomes under the influence of prostaglandin E1. Buko VU, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1177–84

Doxorubicin–induced acute changes in cytotoxic aldehydes, antioxidant status and cardiac function in the rat. Luo X, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):45–52

Role of free radicals and substance P in magnesium deficiency [see comments] Weglicki WB, et al. **Cardiovasc Res** 1996 May;31(5):677–82 (51 ref.). Comment in: Cardiovasc Res 1996 May;31(5):675.

Xanthine oxidase activity and free radical generation in patients with sepsis syndrome. Galley HF, et al. **Crit Care Med** 1996 Oct;24(10):1649–53

Assessing free radical damage [news] **Environ Health Perspect** 1996 Nov;104(11):1148–9

Radicals generated by bone cutting and fracture. Symons MC. **Free Radic Biol Med** 1996;20(6):831–5 (23 ref.)

The role of free radicals in toxicity and disease. Stohs SJ. **J Basic Clin Physiol Pharmacol** 1995;6(3–4):205–28 (99 ref.)

In vivo imaging of nitroxide–free–radical clearance in the rat, using radiofrequency longitudinally detected ESR imaging. Nicholson I, et al. **J Magn Reson B** 1996 Dec; 113(3):256–61

No evidence for a protective effect of ascorbic acid on free radical generation and liver injury after hemorrhagic shock in rats. Minor T, et al. **Shock** 1996 Apr;5(4):280–3

Effects of cytokines on oxygen radical production by peripheral blood monocytes and alveolar macrophages in patients with lung cancer. Tohda Y, et al. **Tumori** 1996 Jul–Aug;82(4):382–5

[Does plasmapheresis affect the production of free radicals and the antioxidant system?] Eiselt J, et al. **Cas Lek Cesk** 1996 Sep 11;135(17):558–62 (Eng. Abstr.) **(Cze)**

[Methods of studying free radical reactions] Racek J, et al. **Cas Lek Cesk** 1996 Jul 26;135(13):409–12 (23 ref.) (Eng. Abstr.) **(Cze)**

[Determination of free radical activity in workers at risk for styrene exposure] Kohout J, et al. **Vnitr Lek** 1996 Aug; 42(8):537–9 (Eng. Abstr.) **(Cze)**

[Alcohol and free radicals: from basic research to clinical prospects] Nordmann R, et al. **Ann Gastroenterol Hepatol (Paris)** 1996 May–Jun; 32(3):128–33; discussion 133–4 (41 ref.) (Eng. Abstr.) **(Fre)**

[Epigenetic mechanisms of aging: relations between Maillard reactions and radical generation] Deguine–Delay V, et al. **C R Seances Soc Biol Fil** 1997;191(2):247–52 (Eng. Abstr.) **(Fre)**

[Free radicals in the origin and clinical manifestation of Down's syndrome] Arbuzova SB. **Tsitol Genet** 1996 Mar–Apr;30(2):25–34 (Eng. Abstr.) **(Rus)**

[Free radicals and antioxidant mechanisms. A general outline and its application in clinical practice] de la Peña Fernández A, et al. **Rev Clin Esp** 1997 Jun;197(6):434–46 (145 ref.) **(Spa)**

PHARMACOLOGY

Free radical–induced inhibition of ATP diphosphohydrolase activity (EC 3.6.1.5) from rat blood platelets. Frassetto SS, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):161–8

Multicomponent spectroscopic investigations of salivary antioxidant consumption by an oral rinse preparation containing the stable free radical species chlorine dioxide (ClO_2.). Lynch E, et al. **Free Radic Res** 1997 Mar; 26(3):209–34

Nitrone–based free radical traps as neuroprotective agents in cerebral ischaemia and other pathologies. Hensley K, et al. **Int Rev Neurobiol** 1997;40:299–317 (105 ref.)

Effects of free radicals on partial reactions of the Na,K–ATPase. Mense M, et al. **J Membr Biol** 1997 Mar 1;156(1):63–71

Interfacial/free radical polymerization microencapsulation: kinetics of particle formation. Mahabadi HK, et al. **J Microencapsul** 1996 Sep–Oct;13(5):559–73

TOXICITY

Ultrastructural consequences of radical damage before and after differentiation of neuroblastoma B–104 cells. O'Neil BJ, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):75–89

Free radical mechanisms of neurotoxicity [editorial] Marnett LJ. **Chem Res Toxicol** 1997 May;10(5):483–4

FREEDOM

Drugs in sport. Justifying paternalism on the grounds of harm. Olivier S. **Am J Sports Med** 1996;24(6 Suppl):S43–5

Self–determination in terminal care. A comparison of GP and community members' responses. Steinberg MA, et al. **Aust Fam Physician** 1997 Jun;26(6):703–7

Freedom, responsibility, and health. Bunker JP, et al. **BMJ** 1996 Dec 21–28;313(7072):1582–4

Prospective autonomy and critical interests: a narrative defense of the moral authority of advance directives. Rich BA. **Camb Q Healthc Ethics** 1997 Spring;6(2):138–47 (24 ref.)

Mothers' concepts of young children's areas of personal freedom. Nucci L, et al. **Child Dev** 1996 Aug;67(4):1870–86

Can the moral commons survive autonomy? **Hastings Cent Rep** 1996 Nov–Dec;26(6):41–2

Worshiping autonomy. Gaylin W. **Hastings Cent Rep** 1996 Nov–Dec;26(6):43–5

Liberty, responsibility, and the common good. Steinbock B. **Hastings Cent Rep** 1996 Nov–Dec;26(6):45–7

Which grounds for overriding autonomy are legitimate? Veatch RM. **Hastings Cent Rep** 1996 Nov–Dec;26(6):42–3

Choosing to die [see comments] Botticelli MG. **Hawaii Med J** 1996 Dec;55(12):257. Comment in: Hawaii Med J 1996 Dec;55(12):255–6.

Why I do not believe in mercy–killing. Tan SY. **Hawaii Med J** 1996 Dec;55(12):273, 303

The class analysis of poverty: a response to Tony Novak [comment] Wright EO. **Int J Health Serv** 1996;26(2):371–9 (6 ref.). Comment on: Int J Health Serv 1995;25(1):85–100. Comment on: Int J Health Serv 1996;26(1):187–95.

Veterinary colleges and academic freedom. Hannah HW. **J Am Vet Med Assoc** 1997 Feb 1;210(3):340–1

Evidence–based medicine, practice variations and clinical freedom. Hampton JR. **J Eval Clin Pract** 1997 Apr; 3(2):123–31 (38 ref.)

Existential autonomy: why patients should make their own choices. Madder H. **J Med Ethics** 1997 Aug;23(4):221–5

Is free speech free in the nursing profession? Zachary MK. **J Nurs Adm** 1996 Nov;26(11):36–46

The relationship between psychological reactance and self–esteem. Hellman CM, et al. **J Soc Psychol** 1997 Feb; 137(1):135–8

Legislating to preserve women's autonomy during pregnancy. Feitshans IL. **Med Law** 1995;14(5–6):397–412 (40 ref.)

Respect for the patient's integrity and self–determination—an ethical imperative called upon in the Swedish Health and Medical Care Act. Margareta A. **Med Law** 1996; 15(2):189–93 (9 ref.)

Patient's autonomy vs doctor's professional integrity. Tsukamoto Y. **Med Law** 1996;15(2):195–9 (11 ref.)

Autonomy and violence. Bar On BA. **Mt Sinai J Med** 1996 Mar;63(2):82–6

[The loss of autonomy in disabling neurologic diseases. Ethical considerations] de Deyn PP, et al. **Rev Med Liege** 1997 Jun;52(6):403–12 **(Fre)**

["I never feel free"—women care for the demented husband, father or mother] Adler C, et al. **Gesundheitswesen** 1996 Sep;58 Suppl 2:125–31 (Eng. Abstr.) **(Ger)**

[The interactive effect of initial position and threat to freedom on psychological reactance] Imajo S. **Shinrigaku Kenkyu** 1996 Feb;66(6):431–6 (Eng. Abstr.) **(Jpn)**

FREEMARTINISM

GENETICS

Microsatellite mapping of the bovine roan locus: a major determinant of White Heifer disease. Charlier C, et al. **Mamm Genome** 1996 Feb;7(2):138–42

IMMUNOLOGY

Chimerism and tolerance: from freemartin cattle and neonatal mice to humans. Jankowski RA, et al. **Hum Immunol** 1997 Feb;52(2):155–61 (52 ref.)

FREEZE DRYING

Characterization of the glycation of albumin in freeze–dried and frozen human serum. Bunk DM. **Anal Chem** 1997 Jul 1;69(13):2457–63

Effect of protectants in L–drying on the conformation and infectivity of rice dwarf phytoreovirus. Fukumoto F, et al. **Arch Virol** 1996;141(8):1579–85

Preparation of lyophilized partial thromboplastin time reagent composed of synthetic phospholipids: usefulness for monitoring heparin therapy [see comments] van den Besselaar AM, et al. **Clin Chem** 1997 Jul;43(7):1215–22. Comment in: Clin Chem 1997 Jul;43(7):1105–7.

Paradoxical behaviour of lyophilised commercial control materials for CK and CK–MB assays after reconstitution at either 4 degrees C or 24 degrees C. Lippi G, et al. **Clin Chim Acta** 1997 May 28;261(2):167–73

Freeze drying of cardiac valves in preparation for cellular repopulation. Curtil A, et al. **Cryobiology** 1997 Feb; 34(1):13–22

Intraoperative consultation in ovarian lesions: a comparison between cytology and frozen section. Michael CW, et al. **Diagn Cytopathol** 1996 Dec;15(5):387–94

Effect of microwave radiation, pasteurization and lyophilization on the ability of human milk to inhibit Escherichia coli adherence to HEp–2 cells. Carbonare SB, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):90–4

Effect of freeze–drying or gamma–irradiation on remodeling of tendon allograft in a rat model. Toritsuka Y, et al. **J Orthop Res** 1997 Mar;15(2):294–300

A pig collagen peptide fraction. A unique material for maintaining biological activity during lyophilization and during storage in the liquid state. Gaffney PJ, et al. **J Pharm Pharmacol** 1996 Sep;48(9):896–8

Condensable chemical vapors for sterilization of freeze dryers. Bardat A, et al. **PDA J Pharm Sci Technol** 1996 Mar–Apr;50(2):83–8

Polymorphic changes of mannitol during freeze–drying: effect of surface–active agents. Haikala R, et al. **PDA J Pharm Sci Technol** 1997 Mar–Apr;51(2):96–101

Intravial distribution of moisture during the secondary drying stage of freeze drying. Pikal MJ, et al. **PDA J Pharm Sci Technol** 1997 Jan–Feb;51(1):17–24

Rapid and large–scale isolation of microsomal fraction of mouse liver by lyophilization and low speed centrifugation. Iwata N, et al. **Tohoku J Exp Med** 1996 Sep;180(1):65–71

In vitro evaluation of the hemostatic effectiveness of non viable platelet preparations: studies with frozen–thawed, sonicated or lyophilized platelets. Alemany M, et al. **Vox Sang** 1997;73(1):36–42

[Manufacture of a freeze dried stew for mountaineers] de Penna EW, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):67–75 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Design and application of a low–temperature Peltier–cooling microscope stage. Hsu CC, et al. **J Pharm Sci** 1996 Jan; 85(1):70–4

Inspection qualification (IQ) and operational qualification (OQ) for a vacuum freeze–dryer—Part II: Inspection qualification. Jennings TA, et al. **PDA J Pharm Sci Technol** 1996 Jul–Aug;50(4):205–12

METHODS

Utilization of the freeze–drying method in the preparation of biologically active, intact RNA from hard frozen tissues of human prostate. Tsuka H, et al. **Anal Biochem** 1997 May 1;247(2):458–61

Reconstruction of trachea and carina with immediate or cryopreserved allografts in dogs. Inutsuka K, et al. **Ann Thorac Surg** 1996 Nov;62(5):1480–4

Polymers protect lactate dehydrogenase during freeze–drying by inhibiting dissociation in the frozen state. Anchordoquy TJ, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):231–8

Stabilization of dry membranes by mixtures of hydroxyethyl starch and glucose: the role of vitrification. Crowe JH, et al. **Cryobiology** 1997 Aug;35(1):20–30

Stabilization of rinderpest vaccine by modification of the lyophilization process. House JA, et al. **Dev Biol Stand** 1996;87:235–44 (23 ref.)

Repopulation of freeze–dried porcine valves with human fibroblasts and endothelial cells [see comments] Curtil A, et al. **J Heart Valve Dis** 1997 May;6(3):296–306. Comment in: J Heart Valve Dis 1997 May;6(3):292.

Lyophilization of proteins. Fágáin CO. **Methods Mol Biol** 1996;59:323–37

Development of a stable single–vial formulation for a new technetium complex using bilayer lyophilization. Haby T, et al. **PDA J Pharm Sci Technol** 1997 Mar–Apr;51(2):68–71

Use of subambient differential scanning calorimetry to monitor the frozen–state behavior of blends of excipients for freeze–drying. Martini A, et al. **PDA J Pharm Sci Technol** 1997 Mar–Apr;51(2):62–7

Development of a stable freeze–dried formulation of recombinant human interleukin–1 receptor antagonist. Chang BS, et al. **Pharm Res** 1996 Feb;13(2):243–9

FREEZE ETCHING

Freeze–etching images of central myelinated nerve fibres. Tani E, et al. **J Neurocytol** 1973 Sep;2(3):305–14

METHODS

Ultrastructure of the rat periodontal ligament as observed with quick–freeze, deep–etch and replica methods: arrangement of collagen and related structures. Kuroiwa M, et al. **Acta Anat (Basel)** 1996;157(4):291–302

Effects of early insulin treatment on ultrastructural changes of glomeruli in diabetic rats revealed by the quick–freezing and deep–etching method. Moriya T, et al. **Diabetologia** 1996 Jun;39(6):632–40

Ultrastructural study of the cytoskeleton of optic nerve axons in guinea pigs as revealed by a quick–freezing, deep–etching method. Ou B, et al. **Ophthalmic Res** 1996; 28(1):29–35

[The freeze–etching and freeze–fracturing technics and their use for studying cellular membranes in the central nervous system] Surchev L. **Mol Med (Sofia)** 1996;1(2):28–34 (20 ref.) (Eng. Abstr.) **(Bul)**

FREEZE FRACTURING

Evaluation of fracture planes and cell morphology in complementary fractures of cultured cells in the frozen-hydrated state by field-emission secondary electron microscopy: feasibility for ion localization and fluorescence imaging studies. Chandra S, et al. **J Microsc** 1997 Jun;186 (Pt 3):232-45

METHODS

Double replicas allow the obtention of longitudinally freeze-fractured Trypanosoma cruzi. do Nascimento AE, et al. **Biocell** 1996 Dec;20(3):243-9

A simple and reliable quick-freezing/freeze-fracturing procedure. Fujimoto K, et al. **Histochem Cell Biol** 1997 Jan;107(1):81-4

SDS-digested freeze-fracture replica labeling electron microscopy to study the two-dimensional distribution of integral membrane proteins and phospholipids in biomembranes: practical procedure, interpretation and application. Fujimoto K. **Histochem Cell Biol** 1997 Feb; 107(2):87-96 (30 ref.)

Freeze-fracture immunogold labeling. Torrisi MR, et al. **Histochem Cell Biol** 1996 Jul;106(1):19-30 (45 ref.)

Transmembrane phospholipid distribution revealed by freeze-fracture replica labeling. Fujimoto K, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2453-60

New fracture-labelling method: alkaline phosphatase in unstimulated human neutrophils. Takizawa T, et al. **J Electron Microsc (Tokyo)** 1997;46(1):85-91

Metal sandwich method to quick-freeze monolayer cultured cells for freeze-fracture. Fujimoto T, et al. **J Histochem Cytochem** 1997 Apr;45(4):595-8

Flatten-peeled: a new approach to freeze-fracture morphology. Corrêges P, et al. **Microsc Res Tech** 1996 Aug 1;34(5):478-87

Double-layer coating for field-emission cryo-scanning electron microscopy--present state and applications. Walther P, et al. **Scanning** 1997 Aug;19(5):343-8 (12 ref.)

[The freeze-etching and freeze-fracturing technics and their use for studying cellular membranes in the central nervous system] Surchev L. **Mol Med (Sofia)** 1996;1(2):28-34 (20 ref.) (Eng. Abstr.) **(Bul)**

FREEZE SUBSTITUTION

Ultrastructure of quick-frozen and freeze-substituted chick osteoclasts. Akisaka T, et al. **J Anat** 1997 Apr;190 (Pt 3):433-45

Ultrastructure and synthesis of the extracellular matrix of Pisaster ochraceus embryos preserved by freeze substitution. Crawford BJ, et al. **J Morphol** 1997 May; 232(2):133-53

Cryofixation, cryosubstitution, and immunoelectron microscopy: potential role in diagnostic pathology. McCann JA, et al. **Ultrastruct Pathol** 1996 May-Jun; 20(3):223-30

METHODS

A method for co-localization of tubular lysosomes and microtubules in macrophages: fluorescence microscopy of individual cells. Robinson JM, et al. **J Histochem Cytochem** 1996 Oct;44(10):1109-14

FREEZING

see related
CRYOPRESERVATION
CRYOPROTECTIVE AGENTS
CRYOSURGERY
ICE
REFRIGERATION

Freezing-induced genes in wood frog (Rana sylvatica): fibrinogen upregulation by freezing and dehydration. Cai Q, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1480-92

Signal transduction, second messenger, and protein kinase responses during freezing exposures in wood frogs. Holden CP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1205-11

Oxidative damage and antioxidants in Rana sylvatica, the freeze-tolerant wood frog. Joanisse DR, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R545-53

Characterization of the glycation of albumin in freeze-dried and frozen human serum. Bunk DM. **Anal Chem** 1997 Jul 1;69(13):2457-63

Regeneration of tactile lamellar corpuscles of the rat after postnatal freeze injury. Jirmanová I, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):363-74

Leavening ability and freeze tolerance of yeasts isolated from traditional corn and rye bread doughs. Almeida MJ, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4401-4

Assessment of the quality of frozen serum by spectrophotometric analysis and sperm bioassay. Hossain AM, et al. **Arch Androl** 1997 Sep-Oct;39(2):119-25

EPR investigation of water oxidizing photosystem II: detection of new EPR signals at cryogenic temperatures. Nugent JH, et al. **Biochemistry** 1997 Jun 10;36(23):7086-96

Initial trajectory of carbon monoxide after photodissociation from myoglobin at cryogenic temperatures. Teng TY, et al. **Biochemistry** 1997 Oct 7;36(40):12087-100

Differential regulation of the mitochondrial ADP/ATP translocase gene in wood frogs under freezing stress. Cai Q, et al. **Biochim Biophys Acta** 1997 Jul 17;1353(1):69-78

Influence of freeze-concentration effect on proteinase-catalysed peptide synthesis in frozen aqueous systems. Ullmann G, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):253-8

Cryoenzymology: how to practice kinetic and structural studies. Travers F, et al. **Biochimie** 1995;77(12):937-48 (64 ref.)

Thermal access to amplified chemical potential and the determination of equilibrium constants in protein solutions at subfreezing temperatures. Yang AS, et al. **Biophys Chem** 1996 Feb 8;58(3):341-54

RT-PCR without RNA isolation. Klebe RJ, et al. **Biotechniques** 1996 Dec;21(6):1094-100

Oxidative stability and alpha-tocopherol retention in turkey burgers during refrigerated and frozen storage as influenced by dietary alpha-tocopheryl acetate. Wen J, et al. **Br Poult Sci** 1996 Sep;37(4):787-95

Biochemistry below 0 degrees C: nature's frozen vertebrates. Storey KB, et al. **Braz J Med Biol Res** 1996 Mar; 29(3):283-307 (92 ref.)

Studies of proliferative responses by long-term-cryopreserved peripheral blood mononuclear cells to bacterial components associated with periodontitis. Miller GA, et al. **Clin Diagn Lab Immunol** 1996 Nov; 3(6):710-6

Organic solutes in freezing tolerance. Storey KB. **Comp Biochem Physiol A Physiol** 1997 Jul;117(3):319-26 (37 ref.)

In situ freezing of the rabbit and rat brain. Roos MW, et al. **Cryobiology** 1997 Sep;35(2):187-91

De novo protein biosynthesis responses to water stresses in wood frogs: freeze-thaw and dehydration-rehydration. Storey KB, et al. **Cryobiology** 1997 May;34(3):200-13

Beta-lactam stability in frozen microdilution PASCO MIC panels using strains with known resistance mechanisms as biosensors. Valdezate S, et al. **Diagn Microbiol Infect Dis** 1996 Oct;26(2):53-61

Capillary zone electrophoresis at subzero temperatures II: chiral separation of biogenic amines. Ma S, et al. **Electrophoresis** 1997 Jun;18(6):873-83

Creatine kinase activity decrease with short-term freezing. Lev EI, et al. **Enzyme Protein** 1994-95;48(4):238-42

Freeze-induced shrinkage of individual cells and cell-to-cell propagation of intracellular ice in cell chains from salivary glands. Berger WK, et al. **Experientia** 1996 Sep 15; 52(9):843-50

Glucocorticoid administration during transfer of frozen-thawed embryos: a prospective, randomized study. Bider D, et al. **Fertil Steril** 1996 Jul;66(1):154-6

Pregnancy after intracytoplasmic sperm injection of spermatozoa extracted from frozen-thawed testicular biopsy. Fischer R, et al. **Hum Reprod** 1996 Oct; 11(10):2197-9

Frozen embryos: too cold to touch? Spare embryos: symbols of respect for humanity and freezing in the pronuclear stage. Koninckx PR, et al. **Hum Reprod** 1996 Sep; 11(9):1841-2 (13 ref.)

Incidence of birth defects after artificial insemination with frozen donor spermatozoa: a collaborative study of the French CECOS Federation on 11,535 pregnancies. Thepot F, et al. **Hum Reprod** 1996 Oct;11(10):2319-23

Ultrastructure of quick-frozen and freeze-substituted chick osteoclasts. Akisaka T, et al. **J Anat** 1997 Apr;190 (Pt 3):433-45

Windchill and the risk of tissue freezing. Danielsson U. **J Appl Physiol** 1996 Dec;81(6):2666-73

Skin tumours in cattle and sheep after freeze- or heat-branding. Yeruham I, et al. **J Comp Pathol** 1996 Jan; 114(1):101-6

The supercooling ability of ticks (Acari, Ixodoidea). Dautel H, et al. **J Comp Physiol [B]** 1996;166(8):517-24

Effect of freezing on somatic cell count of quarter milk samples as determined by a Fossomatic electronic cell counter. Barkema HW, et al. **J Dairy Sci** 1997 Feb; 80(2):422-6

Cryopreserve LDL in the presence of sucrose to protect the biologic properties [letter; comment] Rudling M, et al. **J Lipid Res** 1996 Oct;37(10):2266-7. Comment on: J Lipid Res 1992 Oct;33(10):1551-61. Comment on: J Lipid Res 1994 Sep;35(9):1592-8.

Importance of supercooling points in the overwintering of the horn fly and stable fly (Diptera:Muscidae). Jones SR, et al. **J Med Entomol** 1997 Jul;34(4):426-9

Comparison of slam-freezing and high-pressure freezing effects on the DNA cholesteric liquid crystalline structure. Leforestier A, et al. **J Microsc** 1996 Oct;184 (Pt 1):4-13

Morphologic response of myocardium to freeze-thaw injury in mouse strains with dystrophic cardiac calcification. Brunnert SR. **Lab Anim Sci** 1997 Feb;47(1):11-8

Experimental free tissue transfer over perivascular-injured vessels: effect of in vivo freezing. Cavadas PC, et al. **Microsurgery** 1996;17(6):295-300

In vivo vascular freezing in clinical microvascular transfer. Cavadas PC. **Microsurgery** 1996;17(3):121-2

In vivo microarterial freezing: experimental study. Cavadas PC, et al. **Microsurgery** 1996;17(3):109-14

In vivo microvascular freezing in veins: experimental study. Cavadas PC, et al. **Microsurgery** 1996;17(3):115-20

Effect of chilling bovine oocytes on their developmental competence. Martino A, et al. **Mol Reprod Dev** 1996 Dec; 45(4):503-12

Hyperactive antifreeze protein from beetles [letter] Graham LA, et al. **Nature** 1997 Aug 21;388(6644):727-8

Reconstituted botulinum toxin type A does not lose potency in humans if it is refrozen or refrigerated for 2 weeks before use. Sloop RR, et al. **Neurology** 1997 Jan;48(1):249-53

A comparison of two methods to measure amylase, lipase, trypsin, and chymotrypsin activity and the effect of freezing and thawing on enzyme activities in pancreatic juice. Gabert VM, et al. **Pancreas** 1997 Aug;15(2):183-90

Effect of temperature history on the freeze-thawing process and activity of LDH formulations. Aldén M, et al. **Pharm Res** 1997 Apr;14(4):426-30

Freezing impairment of male reproductive behaviors of the freeze-tolerant wood frog, Rana sylvatica. Costanzo JP, et al. **Physiol Zool** 1997 Mar-Apr;70(2):158-66

Accumulation of 19-kDa plasma membrane polypeptide during induction of freezing tolerance in wheat suspension-cultured cells by abscisic acid. Koike M, et al. **Plant Cell Physiol** 1997 Jun;38(6):707-16

Directed evolution of a type I antifreeze protein expressed in Escherichia coli with sodium chloride as selective pressure and its effect on antifreeze tolerance. Meijer PJ, et al. **Protein Eng** 1996 Nov;9(11):1051-4

Effects of freezing and azide treatment of in vitro human skin on the flux and metabolism of 8-methoxypsoralen. Shaikh NA, et al. **Skin Pharmacol** 1996;9(4):274-80

Actin localization in ram spermatozoa: effect of freezing/thawing, capacitation and calcium ionophore-induced acrosomal exocytosis. de las Heras MA, et al. **Tissue Cell** 1997 Feb;29(1):47-53

Effect of antifreeze proteins on frozen primary prostatic adenocarcinoma cells. Koushafar H, et al. **Urology** 1997 Mar;49(3):421-5

[Comparison of the quality of frozen raspberries depending on the use of various additives] Kmiecik W, et al. **Rocz Panstw Zakl Hig** 1996;47(4):401-10 (Eng. Abstr.) **(Pol)**

FRENUM, LABIAL see **LABIAL FRENUM**

FRENUM, LINGUAL see **LINGUAL FRENUM**

FREONS

Cryogen spray cooling during Nd:YAG laser treatment of hemangiomas. A preliminary animal model study. Hoffman WL, et al. **Dermatol Surg** 1997 Aug;23(8):635-41

Effect of dynamic cooling on 585-nm pulsed dye laser treatment of port-wine stain birthmarks. Waldorf HA, et al. **Dermatol Surg** 1997 Aug;23(8):657-62

The response of anesthetic agent monitors to trifluoromethane warns of the presence of carbon monoxide from anesthetic breakdown. Woehlck HJ, et al. **J Clin Monit** 1997 May;13(3):149-55

[A request for authorization to use tetrafluoroethane as a propellant gas for agents of removal presented in the form of aerosols] Delaveau P. **Bull Acad Natl Med** 1997 Feb; 181(2):345-9 **(Fre)**

ADVERSE EFFECTS

Epidemic of liver disease caused by hydrochlorofluorocarbons used as ozone-sparing substitutes of chlorofluorocarbons. Hoet P, et al. **Lancet** 1997 Aug 23;350(9077):556-9

CHEMISTRY

Comparison of supercritical CHF3 and CO2 for extraction of sulfonamides from various food matrices. Combs MT, et al. **Anal Chem** 1996 Dec 15;68(24):4507-11

Comparison of supercritical CHF3 and CO2 and methanol-modified CHF3 and CO2 for extraction of sulfonamides from chicken liver. Ashraf-Khorassani M, et al. **J AOAC Int** 1996 Sep-Oct;79(5):1043-9

PHARMACOKINETICS

Metabolism and disposition of difluoromethane (HFC32) in the mouse. Ellis MK, et al. **Hum Exp Toxicol** 1996 Jul; 15(7):592-6

POISONING

Headspace GC/MS testing for chlorodifluoromethane in two fatal cases. Kintz P, et al. **Forensic Sci Int** 1996 Sep 30; 82(2):171-5

TOXICITY

Effects of four trihalomethanes on DNA strand breaks, renal hyaline droplet formation and serum testosterone in male F-344 rats. Potter CL, et al. **Cancer Lett** 1996 Sep 10; 106(2):235-42

Subchronic toxicity and teratogenicity of 2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124). Malley LA, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):11-22

FRESH FROZEN PLASMA see **PLASMA**

FRESH WATER

Studies of bronchial asthma induced by chironomid midges (Diptera) around a hypereutrophic lake in Japan. Hirabayashi K, et al. **Allergy** 1997 Feb;52(2):188-95

The etiology of pulmonary edema in fresh water near-drowning. Rumbak MJ. **Am J Emerg Med** 1996 Mar; 14(2):176-9

Effect of piped water supply on human water contact patterns in a Schistosoma haematobium-endemic area in Coast Province, Kenya. Noda S, et al. **Am J Trop Med Hyg** 1997 Feb;56(2):118-26

Effects of Bacillus thuringiensis subsp. israelensis (B.t.i.) applications on invertebrates from two streams on Prince Edward Island. McCracken IR, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):291-8

Accumulation of extractable organic halogens (EOX) by the freshwater mussel, Anodonta cygnea L., exposed to chlorine bleached pulp and paper mill effluents. Hayer F, et al. **Chemosphere** 1996 Feb;32(4):791-803

Residual pesticides and their toxicity to freshwater shrimp in the littoral and pelagic zones of Lake Kasumigaura, Japan. Nohara S, et al. **Chemosphere** 1996 Oct; 33(7):1417-24

A qualitative ecological model to support mariculture pond water quality management. Brown DJ. **Comput Appl Biosci** 1995 Dec;11(6):595-602

Relative sensitivity of three endangered fishes, Colorado squawfish, bonytail, and razorback sucker, to selected metal pollutants. Buhl KJ. **Ecotoxicol Environ Saf** 1997 Jul; 37(2):186-92

Correlation between overall pesticide effects monitored by shrimp mortality test and change in macrobenthic fauna in a river. Hatakeyama S, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):148-61

Ecotoxicity in the Reconquista River, province of Buenos Aires, Argentina: a preliminary study. Herkovits J, et al. **Environ Health Perspect** 1996 Feb;104(2):186-9

Genotoxicity monitoring of small bodies of water using two species of tadpoles and the alkaline single cell gel (comet) assay. Ralph S, et al. **Environ Mol Mutagen** 1997; 29(4):418-30

Changes in plasma atrial and ventricular natriuretic peptide concentrations after transfer of eels from freshwater to seawater or vice versa. Kaiya H, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):337-45

Determination of atrazine in water by magnetic particle immunoassay: collaborative study. Hayes MC, et al. **J AOAC Int** 1996 Mar-Apr;79(2):529-37

Biodegradation of aniline, anthracene, chlornitrophen, fenitrothion and linear alkylbenzene sulphonate in pond water. Nishihara T, et al. **J Appl Microbiol** 1997 Apr; 82(4):441-7

Analysis of toxic wastes in tissues from aquatic species. Applications of matrix solid-phase dispersion. Crouch MD, et al. **J Chromatogr A** 1997 Jul 11;774(1-2):287-309 (175 ref.)

Structure and diversity of endoparasitic infracommunities and the trophic level of Pseudoplatystoma corruscans and Schizodon borelli (Osteichthyes) of the high Paraná River. Machado MH, et al. **Mem Inst Oswaldo Cruz** 1996 Jul-Aug; 91(4):441-8

A molecular phylogeny of Mobile River drainage basin pleurocerid snails (Caenogastropoda: Cerithioidea). Lydeard C, et al. **Mol Phylogenet Evol** 1997 Feb; 7(1):117-28

Camallanus polypteri n. sp. (Nematoda:Camallanidae) in freshwater fishes from Burkina Faso. Kabré GB, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):33-7

Control of pest blackflies (Diptera:Simuliidae) along the Orange River, South Africa: 1990-1995. Palmer RW, et al. **Onderstepoort J Vet Res** 1996 Dec;63(4):289-304

Biology of the Humber rivers. Whitton BA, et al. **Sci Total Environ** 1997 Feb 24;194-195:247-62 (145 ref.)

Proceedings of the Great Lakes Human Health Effects Research Symposium. Detroit, Michigan, 4-6 May 1994. **Toxicol Ind Health** 1996 May-Aug;12(3-4):299-588

Diseases of freshwater fish. Haenen OL. **Vet Q** 1996;18 Suppl 3:S132-3 (24 ref.)

[Detection of fluid in paranasal sinuses as a possible diagnostic sign of death by drowning] Hottmar P. **Arch Kriminol** 1996 Sep-Oct;198(3-4):89-94 (Eng. Abstr.) **(Ger)**

[The goal-oriented project "pathology of environmental pollutants" (M.U.R.S.T. 40%)] Ugazio G. **G Ital Med Lav** 1995 Jan-Nov;17(1-6):5-10 (Eng. Abstr.) **(Ita)**

[The use of biological indices on environmental quality assessment] Navas-Pereira D, et al. **Rev Bras Biol** 1996 May;56(2):441-50 (Eng. Abstr.) **(Por)**

[The relation of the degree of water salinity to oviposition by female blood-sucking mosquitoes] Iasiukevich VV. **Med Parazitol (Mosk)** 1997 Apr-Jun;(2):32-5 (Eng. Abstr.) **(Rus)**

ANALYSIS

Modified pulsed-field gradient NMR experiments for improved selectivity in the measurement of diffusion coefficients in complex mixtures: application to the analysis of the Suwannee River fulvic acid. Dixon AM, et al. **Anal Chem** 1997 Jun 1;69(11):2122-8

Salinity tolerances of selected macroinvertebrates of the Sabie River, Kruger National Park, South Africa. Goetsch P, et al. **Arch Environ Contam Toxicol** 1997 Jan;32(1):32-41

Ecotoxicology of organisms adapted to life in temporary freshwater ponds in arid and semi-arid regions. Lahr J. **Arch Environ Contam Toxicol** 1997 Jan;32(1):50-7 (74 ref.)

The calibration of an artificial stream system used to investigate the tolerances of South African riverine invertebrates to selected water quality variables. Palmer CG, et al. **Arch Environ Contam Toxicol** 1997 Jan; 32(1):22-31 (25 ref.)

Effect of subsurface drains on runoff losses of metolachlor and trifluralin from Mississippi River alluvial soil. Southwick LM, et al. **Arch Environ Contam Toxicol** 1997 Jan;32(1):106-9

Organochlorines and polycyclic aromatic hydrocarbons in the sediments of Ganges River (India). Ahmad S, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):794-802

Effects of environmental mercury on gonadal function in Lake Champlain northern pike (Esox lucius). Friedmann AS, et al. **Bull Environ Contam Toxicol** 1996 Mar; 56(3):486-92

Comparison of an enzyme immunoassay with gas chromatography for atrazine determination in water and soil. Jenks BM, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):696-703

Determination of triazine residues in water: comparison between a gas chromatographic method and an enzyme-linked immunosorbent assay (ELISA). Lentza-Rizos C. **Bull Environ Contam Toxicol** 1996 Sep; 57(3):413-20

Fluoride concentrations in ground waters of Visakhapatnam, India. Sarma DRR, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):241-7

Levels of the herbicide glyphosate in well water. Smith NJ, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):759-65

Irgarol 1051, an antifouling compound in freshwater, sediment, and biota of Lake Geneva. Tóth S, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):426-33

Pesticides in water and fish from rivers flowing into Lake Biwa. Tsuda T, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):442-9

Pulp mill sourced organic compounds and sodium levels in water and sediments from the Tarawera River, New Zealand. Wilkins AL, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):434-41

Nitrate losses in runoff and subsurface drain effluent from controlled-water-table plots. Willis GH, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):566-73

Toxicity identification evaluation of Lake Orta (Northern Italy) sediments using the Microtox system. Guzzella L, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):231-5

Inorganic components of drinking water and microalbuminuria. Mao Y, et al. **Environ Res** 1995 Nov; 71(2):135-40

Fluorine intake of a Tibetan population. Cao J, et al. **Food Chem Toxicol** 1996 Aug;34(8):755-7

Predicted versus measured tritium oxide concentrations at the Savannah River Site. Simpkins AA, et al. **Health Phys** 1997 Feb;72(2):179-85

Determination of phosphate in natural waters by capillary electrophoresis. Influence of solution composition on migration time and response. van den Hoop MA, et al. **J Chromatogr A** 1997 May 16;770(1-2):321-8

Evaluation of atrazine positive and false positive immunoassay detections in ground water. Watts DW, et al. **J Environ Sci Health B** 1997 Sep;32(5):659-71

Influence of alkaline ionized water on rat erythrocyte hexokinase activity and myocardium. Watanabe T, et al. **J Toxicol Sci** 1997 May;22(2):141-52

Microcystin levels during 1992-95 for Lakes Sagami and Tsukui-Japan. Tsuji K, et al. **Nat Toxins** 1996;4(4):189-94

A drainage basin perspective of mercury transport and bioaccumulation: Onondaga Lake, New York. Bigham GN, et al. **Neurotoxicology** 1996 Spring;17(1):279-90

Long-term extractable compounds screening in surface water to prevent accidental organic pollution. Deroux JM, et al. **Sci Total Environ** 1997 Sep 15;203(3):261-74

The efficiency of removal of lead and other elements from domestic drinking waters using a bench-top water filter system. Gulson BL, et al. **Sci Total Environ** 1997 Apr 1; 196(3):205-16

Physicochemical quality of drinking and hot waters in Finnish buildings originated from groundwater or surface water plants. Zacheus OM, et al. **Sci Total Environ** 1997 Sep 19;204(1):1-10

Natural fluoride and trace metal levels of ground and surface waters in the greater Accra region of Ghana. Botchway CA, et al. **West Afr J Med** 1996 Oct-Dec;15(4):204-9

CHEMISTRY

Application of on-line HPLC-1H NMR to environmental samples: analysis of groundwater near former ammunition plants. Godejohann M, et al. **Anal Chem** 1997 Sep 15; 69(18):3832-7

Mercury concentrations in pond fish in relation to a coal-fired power plant. Pinkney AE, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):222-9

Salinity tolerance of Daphnia magna and potential use for estuarine sediment toxicity tests. Schuytema GS, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):194-8

Experimental factors that may affect toxicity of cadmium to freshwater organisms. Suedel BC, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):188-93

The identification of thresholds of acceptability and danger: the chemical presence route. Matthies M, et al. **Arch Toxicol Suppl** 1997;19:123-35

Accumulation pattern of pesticides in tropical fresh waters. Bhushan R, et al. **Biomed Chromatogr** 1997 May-Jun; 11(3):143-50

Occurrence of methylmercury in Lake Valencia, Venezuela. Jaffé R, et al. **Bull Environ Contam Toxicol** 1997 Jul; 59(1):99-105

Levels of chlorinated hydrocarbons (CHC) in breams (Abramis brama) from the river Elbe (a contribution to the Federal Environmental Specimen Bank). Marth P, et al. **Chemosphere** 1997 May;34(9-10):2183-92

Herbicide isoproturon-specific binding in the freshwater macrophyte Elodea densa--a single-cell fluorescence study. Grouselle M, et al. **Ecotoxicol Environ Saf** 1995 Dec; 32(3):254-9

Quality targets for concentrations of hazardous substances in surface waters in Germany. Irmer U, et al. **Ecotoxicol Environ Saf** 1995 Dec;32(3):233-43

Acute effects evaluation of HgCl2 on epidermis of Trichomycterus brasiliensis (Siluroidei; trichomycteridae). Oliveira Ribeiro CA, et al. **Ecotoxicol Environ Saf** 1995 Dec;32(3):260-6

The ecotoxicity of chlorate to aquatic organisms: a critical review. van Wijk DJ, et al. **Ecotoxicol Environ Saf** 1995 Dec;32(3):244-53 (54 ref.)

Alterations of cytochrome P450-dependent monooxygenase activities in Eriocheir japonicus in response to water pollution. Ishizuka M, et al. **Environ Health Perspect** 1996 Jul;104(7):774-8

Rapid target analysis of microcontaminants in water by on-line single-short-column liquid chromatography combined with atmospheric pressure chemical ionization tandem mass spectrometry. Hogenboom AC, et al. **J Chromatogr A** 1997 Aug 8;777(1):81-90

High-performance liquid chromatographic analysis of a linear alkylbenzenesulfonate and its environmental biodegradation metabolites. Sarrazin L, et al. **J Chromatogr A** 1997 Jan 31;760(2):285-91

Analysis of polar organic pollutants in the Elbe river by flow injection analysis and high-performance liquid chromatography with tandem mass spectrometry. Schröder HF. **J Chromatogr A** 1997 Aug 8;777(1):127-39

Inorganic arsenic species in groundwater: a case study from Purbasthali (Burdwan), India. Nag JK, et al. **J Trace Elem Med Biol** 1996 Apr;10(1):20-4

Vitamin D3- induced histological changes in the corpuscles of stannius of a freshwater catfish, Heteropneustes fossilis kept either in artificial freshwater, calcium-rich freshwater or calcium-deficient freshwater. Singh S, et al. **Okajimas Folia Anat Jpn** 1996 Aug;73(2-3):75-81

Ion regulation in ion-poor acidic water by the blackskirt tetra (Gymnocorymbus ternetzi), a fish native to the Amazon River. Gonzalez RJ, et al. **Physiol Zool** 1997 Jul-Aug; 70(4):428-35

Chemical composition of sediments, suspended matter, river water and ground water of the Nile (Aswan-Sohag traverse). Dekov VM, et al. **Sci Total Environ** 1997 Aug 18;201(3):195-210

The history and source of particulate 137Cs and 239,240Pu deposition in sediments of the Ob River Delta, Siberia. Sayles FL, et al. **Sci Total Environ** 1997 Aug 25; 202(1-3):25-41

A simple method for defluoridation of drinking water at village level by adsorption on Ando soil in Kenya. Zevenbergen C, et al. **Sci Total Environ** 1996 Oct 11; 188(2-3):225-32

Isolation and toxicity of Cylindrospermopsis raciborskii from an ornamental lake. Hawkins PR, et al. **Toxicon** 1997 Mar; 35(3):341-6

Detection of an anatoxin-a(s)-like anticholinesterase in natural blooms and cultures of cyanobacteria/blue-green algae from Danish lakes and in the stomach contents of poisoned birds. Henriksen P, et al. **Toxicon** 1997 Jun; 35(6):901-13

Anatoxin-a in Irish freshwater and cyanobacteria, determined using a new fluorimetric liquid chromatographic method. James KJ, et al. **Toxicon** 1997 Jun;35(6):963-71

MICROBIOLOGY

The species composition of oligotrophic bacterial communities of Lake Balaton--a numerical analysis. Tóth E. **Acta Microbiol Immunol Hung** 1996;43(4):333-8

Genetic transformation in freshwater: Escherichia coli is able to develop natural competence. Baur B, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3673-8

A freshwater anaerobe coupling acetate oxidation to tetrachloroethylene dehalogenation. Krumholz LR, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4108-13

Recovery of crenarchaeotal ribosomal DNA sequences from freshwater-lake sediments. Schleper C, et al. **Appl Environ Microbiol** 1997 Jan;63(1):321-3

Bacterial population dynamics in a meromictic lake. Tuomi P, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2181-8

Identification of final biodegradation product of nonylphenol ethoxylate (NPE) by river microbial consortia. Maki H, et al. **Bull Environ Contam Toxicol** 1996 Dec;57(6):881-7

Desulfuromonas thiophila sp. nov., a new obligately sulfur-reducing bacterium from anoxic freshwater sediment. Finster K, et al. **Int J Syst Bacteriol** 1997 Jul; 47(3):754-8

Survival potential of Aeromonas hydrophila in freshwaters and nutrient-poor waters in comparison with other bacteria. Kersters I, et al. **J Appl Bacteriol** 1996 Mar; 80(3):266-76

Enumeration of Enterococcus sp. using a modified mE

method. Rhodes MW, et al. **J Appl Microbiol** 1997 Jul; 83(1):120–6

The diagnostic value of the diatom test for drowning, II. Validity: analysis of diatoms in bone marrow and drowning medium. Pollanen MS. **J Forensic Sci** 1997 Mar; 42(2):286–90

Seasonal variations in microcystin contents of Danish cyanobacteria. Henriksen P, et al. **Nat Toxins** 1997; 5(3):99–106

Microcystins in Slovene freshwaters (central Europe)—first report. Sedmak B, et al. **Nat Toxins** 1997;5(2):64–73

PCR-mediated DNA fingerprinting of atypical campylobacter strains isolated from surface and drinking water. Jacob J, et al. **Zentralbl Bakteriol** 1996 Sep; 285(1):106–12

["Depilation" by micro-algae?] Ditrich H. **Arch Kriminol** 1996 Sep–Oct;198(3–4):95–8 (Eng. Abstr.) **(Ger)**

[Determination of the taxonomic position of bacteria from Lake Baikal using sequence analysis of 16S rRNA fragments] Belikov SI, et al. **Mikrobiologiia** 1996 Nov–Dec; 65(6):855–64 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Sources of variation in isolation rate of Giardia lamblia cysts and their homogeneous distribution in river water entering a water treatment plant. Payment P, et al. **Can J Microbiol** 1997 Jul;43(7):687–9

Prevalence and intensity of S. mansoni infection along the shores of Lake Tana, Ethiopia. Dagnew M. **East Afr Med J** 1996 Dec;73(12):801–4

Schistosoma mansoni along Lake Albert, Kibale District, Western Uganda. Kabatereine NB, et al. **East Afr Med J** 1996 Aug;73(8):502–4

Spatial patterns of human water contact and Schistosoma mansoni transmission and infection in four rural areas in Machakos District, Kenya. Kloos H, et al. **Soc Sci Med** 1997 Apr;44(7):949–68

Survival of beta and gamma races of Neotricula aperta snail intermediate hosts of Schistosoma mekongi in raw waters. Lohachit C, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):396–9

VIROLOGY

Development of a nucleic acid capture probe with reverse transcriptase-polymerase chain reaction to detect poliovirus in groundwater. Regan PM, et al. **J Virol Methods** 1997 Feb;64(1):65–72

FREUDIAN THEORY

Can artificial intelligence be of help to psychoanalysis ... or ... vice versa? Rodado J, et al. **Am J Psychoanal** 1996 Dec; 56(4):395–413 (59 ref.)

Karen Horney's response to commemoration [letter; comment] Cohen D. **Aust N Z J Psychiatry** 1996 Jun; 30(3):427–8. Comment on: Aust N Z J Psychiatry 1995 Dec;29(4):575–9.

Comment on Janet and Freud [letter; comment] Pakula I. **Aust N Z J Psychiatry** 1997 Feb;31(1):145–7. Comment on: Aust N Z J Psychiatry 1996 Aug;30(4):480–9; discussion 489–91.

Freud, Prozac, and the human condition [letter] Khouzam HR. **Can J Psychiatry** 1996 Apr;41(3):195

Freud and migraine: the beginning of a psychodynamically oriented view of headache a hundred years ago. Karwautz A, et al. **Cephalalgia** 1996 Feb;16(1):22–6

Freud and Ferenczi: trauma and transference depression. Bokanowski T. **Int J Psychoanal** 1996 Jun;77 (Pt 3):519–36

The contemporary relevance of Anna Freud's contribution to psychoanalysis. Bonaminio V. **Int J Psychoanal** 1996 Jun;77 (Pt 3):585–93

The empire of the ear: Freud's problem with music. Cheshire NM. **Int J Psychoanal** 1996 Dec;77 (Pt 6):1127–68

Has sexuality anything to do with psychoanalysis? [see comments] Green A. **Int J Psychoanal** 1995 Oct;76 (Pt 5):871–83. Comment in: Int J Psychoanal 1997 Jun;78 (Pt 3):577–8.

'How can we know the dancer from the dance?': hyperbole in hysteria. Riesenberg-Malcolm R. **Int J Psychoanal** 1996 Aug;77 (Pt 4):679–88

Too Rankian for the Freudians, or too Freudian for the Rankians: Otto Rank's contributions to psychoanalysis in the 1920s. Leitner M. **J Am Acad Psychoanal** 1997 Spring; 25(1):37–70

Who are the Irmas and what are the narratives? Wax ML. **J Am Acad Psychoanal** 1996 Summer;24(2):293–320

Beyond the he and the she: toward the reconciliation of masculinity and femininity in the postoedipal female mind. Bassin D. **J Am Psychoanal Assoc** 1996;44 Suppl:157–90

The Irma dream, self-analysis, and self-supervision. Blum H. **J Am Psychoanal Assoc** 1996;44(2):510–32

A reconsideration of object choice in women: phallus or fallacy. Frenkel RS. **J Am Psychoanal Assoc** 1996;44 Suppl:133–56

Freud and feminine subjectivity. Hoffman L. **J Am Psychoanal Assoc** 1996;44 Suppl:23–44

The introduction of Eros: reflections on the work of Hans Loewald. Lear J. **J Am Psychoanal Assoc** 1996;44(3):673–98

Freud and the repudiation of the feminine. Orgel S. **J Am Psychoanal Assoc** 1996;44 Suppl:45–67

Nature, nurture, and core gender identity. Robbins M. **J Am Psychoanal Assoc** 1996;44 Suppl:93–117 (107 ref.)

Feminist psychoanalytic theory: American and French reactions to Freud. Rosen H, et al. **J Am Psychoanal Assoc** 1996;44 Suppl:71–92

From "nothing" to "something" to "everything": bisexuality and metaphors of the mind. Stimmel B. **J Am Psychoanal Assoc** 1996;44 Suppl:191–214

Trait anxiety: it's not what you think it is. Reiss S. **J Anxiety Disord** 1997 Mar–Apr;11(2):201–14 (36 ref.)

Civilization, culture and neurotic depression: in view of the Freudian theory. Suzuki K. **Psychiatry Clin Neurosci** 1995 Dec;49(5–6):255–8

The shadow of object love: reconstructing Freud's theory of preoedipal guilt. Ury C. **Psychoanal Q** 1997 Jan; 66(1):34–61

Anatomy of soul murder: family romance and structure of delusion in the memoirs of D.P. Schreber, Part I. Devreese D. **Psychoanal Rev** 1996 Oct;83(5):709–34

The Wolf Man's analysis—an interactional perspective. Dorpat TL. **Psychoanal Rev** 1996 Oct;83(5):643–56

Deception, mystification, trauma: Laing and Freud. Thompson MG. **Psychoanal Rev** 1996 Dec;83(6):827–47

Differentiation and integration. Abrams S. **Psychoanal Study Child** 1996;51:25–34

Offerings and acceptances. Technique and therapeutic action. Abrams S. **Psychoanal Study Child** 1996;51:71–86

Complicating the theory. The application of psychoanalytic concepts and understanding to family preservation. Adnopoz J. **Psychoanal Study Child** 1996;51:411–21

Anna Freud: observation and development. Colonna AB. **Psychoanal Study Child** 1996;51:217–34

The concept of penis envy revisited. A child analyst listens to adult women. Dahl EK. **Psychoanal Study Child** 1996; 51:303–25

The analytic resolution of a developmental imbalance. Elliott-Neely C. **Psychoanal Study Child** 1996;51:235–54

Developing developmental lines. Flashman AJ. **Psychoanal Study Child** 1996;51:255–69

"Put yourself in the skin of the child," she said. Goldstein J, et al. **Psychoanal Study Child** 1996;51:46–55

Undoing the lag in the technique of conflict and defense analysis. Gray P. **Psychoanal Study Child** 1996;51:87–101

Psychoanalytic perspectives on adolescent suicide. King RA, et al. **Psychoanal Study Child** 1996;51:491–511

Psychoanalysis on the beat. Children, police, and urban trauma. Marans S. **Psychoanal Study Child** 1996;51:522–41

Anna Freud and developmental psychoanalytic psychology. Mayes LC, et al. **Psychoanal Study Child** 1996;51:117–41

Anna Freud. A historical look at her theory and technique of child psychoanalysis. Miller JM. **Psychoanal Study Child** 1996;51:142–71

Current issues in psychoanalytic child development. Neubauer PB. **Psychoanal Study Child** 1996;51:35–45

The psychoanalytic legacy of Anna Freud. Sandler AM. **Psychoanal Study Child** 1996;51:270–84

The psychoanalytic study of the child. Introduction. Solnit AJ. **Psychoanal Study Child** 1996;51:1–4

Object relations, affect management, and psychic structure formation. The concept of object constancy. Tyson P. **Psychoanal Study Child** 1996;51:172–89

Diagnosis in clinical practice. Its relationship to psychoanalytic theory. Yorke C. **Psychoanal Study Child** 1996;51:190–214

Anna Freud's contributions to our knowledge of child development. An overview. Yorke C. **Psychoanal Study Child** 1996;51:7–24 (46 ref.)

Freud's early theories of hysteria (1983) [classical article] Rubinstein BB. **Psychol Issues** 1997;(62–63):551–75

A follow-up note on Freud's mind-body dualism: what Ferenczi learned from Freud. Silverstein B. **Psychol Rep** 1997 Apr;80(2):369–70

Why Freud isn't dead. Horgan J. **Sci Am** 1996 Dec; 275(6):106–11

[A document: the problem of free will and psychoanalysis. A psychoanalytic article by the "Wolfmann"] Borch-Jacobsen M, et al. **Gesnerus** 1995;52(3–4):303–18 **(Ger)**

[Controversy regarding Freud. On the postponement of the Freud exhibit in the Library of Congress in Washington, D.C.] Bohleber W. **Psyche (Stuttg)** 1996 Jul;50(7):589–98 (Eng. Abstr.) **(Ger)**

[Critical comment on Annemarie Dührssen's book "One century of psychoanalytic progress in Germany"] Kreuzer-Haustein U, et al. **Psyche (Stuttg)** 1996 Jun; 50(6):564–73 **(Ger)**

[The shrink is in] Lear J. **Psyche (Stuttg)** 1996 Jul; 50(7):599–616 **(Ger)**

[What are affects?] Solms M. **Psyche (Stuttg)** 1996 Jun; 50(6):485–522 (66 ref.) (Eng. Abstr.) **(Ger)**

[Experimental psychological evaluation of Freud's dream theory. Replication and extension of an earlier study] Köhler T, et al. **Psychother Psychosom Med Psychol** 1996 Dec;46(12):419–22 (Eng. Abstr.) **(Ger)**

[Slip technique, process dissociation model and multinomial modeling: new tools for experimental detection of "Freudian slips"] Bröder A, et al. **Z Exp Psychol** 1996; 43(2):175–202 (Eng. Abstr.) **(Ger)**

[Personal destiny: determination, will, and action] Gómez MA. **Bol Asoc Med P R** 1997 Jan–Mar;89(1–3):41–6 (16 ref.) **(Spa)**

[Death and burial of psychoanalysis] García-Albea E. **Rev Neurol** 1997 Jan;25(137):89–90 (11 ref.) **(Spa)**

HISTORY

Freud's deshi: the coming of psychoanalysis to Japan. Blowers GH, et al. **J Hist Behav Sci** 1997 Spring; 33(2):115–26

Freud's relationship to Nietzsche: some preliminary considerations. Lehrer R. **Psychoanal Rev** 1996 Jun; 83(3):363–94

Freud and consciousness: the first one hundred years of neuropsychodynamics in theory and clinical practice. Miller L. **Semin Neurol** 1997 Jun;17(2):171–7

[Sigmund Freud and Hans Blüher in up to now unpublished letters] Neubauer J. **Psyche (Stuttg)** 1996 Feb;50(2):123–48 (Eng. Abstr.) **(Ger)**

FREUND'S ADJUVANT

Comparative efficacy of Freund's and Montanide ISA50 adjuvants for the immunisation of goats against heartwater with inactivated Cowdria ruminantium. Martinez D, et al. **Vet Parasitol** 1996 Dec 31;67(3–4):175–84

ADMINISTRATION & DOSAGE

Is the pretreatment effect of low dose Freund's adjuvant on adjuvant arthritis due to an activation of the nervous system? Bileviciute I, et al. **Neuropeptides** 1996 Oct; 30(5):405–11

ADVERSE EFFECTS

Non-specific hyperreactivity related to the use of Freund's complete adjuvant [letter; comment] Andersen KE, et al. **Contact Dermatitis** 1996 Aug;35(2):127. Comment on: Contact Dermatitis 1996 Feb;34(2):111–4.

CHEMISTRY

Comparison of IL-2- and IL-4-transfected B16-F10 cells with a novel oil-microemulsion adjuvant for B16-F10 whole cell tumour vaccine. Souberbielle BE, et al. **Gene Ther** 1996 Oct;3(10):853–8

IMMUNOLOGY

Immune effector cells induced by complete Freund's adjuvant exert an inhibitory effect on antigen-specific type 2 T helper responses. Chuang YH, et al. **Clin Exp Allergy** 1997 Mar;27(3):315–24

Non-specific hyperreactivity related to the use of Freund's complete adjuvant [letter; comment] Andersen KE, et al. **Contact Dermatitis** 1996 Nov;35(5):127–8. Comment on: Contact Dermatitis 1996 Feb;34(2):111–4.

Regulation of autoimmune diabetes: characteristics of non-islet-antigen specific therapies. Gazda LS, et al. **Immunol Cell Biol** 1996 Oct;74(5):401–7

Effect of Freund's adjuvants on guinea pigs infected with, or vaccinated against, Trichostrongylus colubriformis. Wagland BM, et al. **Int J Parasitol** 1996 Jan;26(1):85–90

PHARMACOLOGY

Cytotoxicity and proliferation of splenocytes and lymph node cells from adjuvant-treated nude mice. Studies of natural and in vitro activation. Radzikowski C, et al. **APMIS** 1996 Sep;104(9):647–58

Effects of Freund's complete adjuvant on the diurnal rhythms of neuroendocrine processes and ornithine decarboxylase activity in various tissues of male rats. Neidhart M. **Experientia** 1996 Sep 15;52(9):900–8

Effect of molybdenum-induced copper deficiency on in vivo and in vitro measures of neutrophil chemotaxis both before and following an inflammatory stressor. Arthington JD, et al. **J Anim Sci** 1996 Nov;74(11):2759–64

Susceptibility of DA rats to arthritis induced with adjuvant oil or rat collagen is determined by genes both within and outside the major histocompatibility complex. Lorentzen JC, et al. **Scand J Immunol** 1996 Dec;44(6):592–8

THERAPEUTIC USE

Immunization against epitopes in the human melanoma antigen gp100 following patient immunization with synthetic peptides. Salgaller ML, et al. **Cancer Res** 1996 Oct 15;56(20):4749–57

Effect of long-term treatment with complete Freund's adjuvant on KK-Ay mouse, a model of non-insulin-dependent diabetes mellitus. Muto Y, et al. **Clin Immunol Immunopathol** 1997 Apr;83(1):53–9

TOXICITY

Pathologic study of an experimental canine arthritis induced with Complete Freund's Adjuvant. Haak T, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):633–41

FREY'S SYNDROME see **SWEATING, GUSTATORY**

FRICTION

Effects of friction and nonlinearities on the separation of arterial waves into their forward and backward components. Pythoud F, et al. **J Biomech** 1996 Nov; 29(11):1419–23

Friction, not texture, dictates grip forces used during object

FRICTION

manipulation. Cadoret G, et al. **J Neurophysiol** 1996 May; 75(5):1963–9

Subjective scaling of smooth surface friction. Smith AM, et al. **J Neurophysiol** 1996 May;75(5):1957–62

Frictional heating of bearing materials tested in a hip joint wear simulator. Lu Z, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):101–8

FRIEDREICH'S ATAXIA

CLASSIFICATION

Phenotypic variability in Friedreich ataxia: role of the associated GAA triplet repeat expansion. Montermini L, et al. **Ann Neurol** 1997 May;41(5):675–82

COMPLICATIONS

Heart disease in Friedreich's ataxia: a clinical and echocardiographic study. Günal N, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):308–11

Can we treat respiratory failure in Friedreich ataxia? Botez MI, et al. **Arch Neurol** 1997 Aug;54(8):1030–3

Correlation between left ventricular hypertrophy and GAA trinucleotide repeat length in Friedreich's ataxia. Isnard R, et al. **Circulation** 1997 May 6;95(9):2247–9

May age onset be relevant in the occurrence of left ventricular hypertrophy in Friedreich's ataxia? Maione S, et al. **Clin Cardiol** 1997 Feb;20(2):141–5

Swallowing in hereditary sensory ataxia. Nilsson H, et al. **Dysphagia** 1996 Spring;11(2):140–3

[Cardiovascular changes in a group of patients with heredoataxia. Clinical, electrocardiographic and echocardiographic findings] Hernández-González E, et al. **Rev Neurol** 1997 Jun;25(142):847–9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

[Cardiovascular changes in a group of patients with heredoataxia. Clinical, electrocardiographic and echocardiographic findings] Hernández-González E, et al. **Rev Neurol** 1997 Jun;25(142):847–9 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Atypical Friedreich ataxia caused by compound heterozygosity for a novel missense mutation and the GAA triplet-repeat expansion [letter] Bidichandani SI, et al. **Am J Hum Genet** 1997 May;60(5):1251–6

Evidence for a common origin of most Friedreich ataxia chromosomes in the Spanish population. Monrós E, et al. **Eur J Hum Genet** 1996;4(4):191–8

GENETICS

Phenotype correlation and intergenerational dynamics of the Friedreich ataxia GAA trinucleotide repeat. Monrós E, et al. **Am J Hum Genet** 1997 Jul;61(1):101–10

The effect of parental gender on the GAA dynamic mutation in the FRDA gene [letter] Pianese L, et al. **Am J Hum Genet** 1997 Feb;60(2):460–3

Friedreich ataxia in Acadian families from eastern Canada: clinical diversity with conserved haplotypes. Richter A, et al. **Am J Med Genet** 1996 Sep 6;64(4):594–601

Phenotypic variability in Friedreich ataxia: role of the associated GAA triplet repeat expansion. Montermini L, et al. **Ann Neurol** 1997 May;41(5):675–82

Frataxin gene of Friedreich's ataxia is targeted to mitochondria. Priller J, et al. **Ann Neurol** 1997 Aug; 42(2):265–9

Friedreich-like ataxia with retinitis pigmentosa caused by the His101Gln mutation of the alpha-tocopherol transfer protein gene. Yokota T, et al. **Ann Neurol** 1997 Jun; 41(6):826–32

Identification and sizing of the GAA trinucleotide repeat expansion of Friedreich's ataxia in 56 patients. Clinical and genetic correlates. Lamont PJ, et al. **Brain** 1997 Apr;120 (Pt 4):673–80

Correlation between left ventricular hypertrophy and GAA trinucleotide repeat length in Friedreich's ataxia. Isnard R, et al. **Circulation** 1997 May 6;95(9):2247–9

Swallowing in hereditary sensory ataxia. Nilsson H, et al. **Dysphagia** 1996 Spring;11(2):140–3

Evidence for a common origin of most Friedreich ataxia chromosomes in the Spanish population. Monrós E, et al. **Eur J Hum Genet** 1996;4(4):191–8

Deletion of the yeast homologue of the human gene associated with Friedreich's ataxia elicits iron accumulation in mitochondria. Foury F, et al. **FEBS Lett** 1997 Jul 14; 411(2–3):373–7

Differential stability of the (GAA)n tract in the Friedreich ataxia (STM7) gene. Epplen C, et al. **Hum Genet** 1997 Jun; 99(6):834–6

Intronic GAA triplet repeat expansion in Friedreich's ataxia presenting with pure sensory ataxia [letter] Berciano J, et al. **J Neurol** 1997 Jun;244(6):390–1

The inherited ataxias and the new genetics [editorial] Hammans SR. **J Neurol Neurosurg Psychiatry** 1996 Oct; 61(4):327–32 (73 ref.)

Anticipating the future by counting DNA triplet repeats [new] Bonn D. **Lancet** 1997 Mar 15;349(9054):782

GAA trinucleotide repeat expansion in variant Friedreich's ataxia families. Cruz-Martínez A, et al. **Muscle Nerve** 1997 Sep;20(9):1121–6

Clinical and genetic abnormalities in patients with Friedreich's ataxia [see comments] Dürr A, et al. **N Engl J Med** 1996 Oct 17;335(16):1169–75. Comment in: N Engl J Med 1996 Oct 17;335(16):1222–4. Comment in: N Engl J Med 1997 Apr 3;336(14):1021; discussion 1022. Comment in: N Engl J Med 1997 Apr 3;336914):1021–2; discussion 1022.

Genetic abnormalities in Friedreich's ataxia [letter; comment] Dutka DP, et al. **N Engl J Med** 1997 Apr 3;336(14):1021; discussion 1022. Comment on: N Engl J Med 1996 Oct 17;335(16):1169–75.

Genetic abnormalities in Friedreich's ataxia [letter; comment] Filla A, et al. **N Engl J Med** 1997 Apr 3;336(14):1021–2; discussion 1022. Comment on: N Engl J Med 1996 Oct 17;335(16):1169–75.

Genetic abnormalities in Friedreich's ataxia [letter; comment] Madhani HD. **N Engl J Med** 1997 Apr 3;336(14):1022; discussion 1022–3. Comment on: N Engl J Med 1996 Oct 17;335(16):1222–4.

DNA-triplet repeats and neurologic disease [editorial; comment] [see comments] Rosenberg RN. **N Engl J Med** 1996 Oct 17;335(16):1222–4. Comment on: N Engl J Med 1996 Oct 17;335(16):1169–75. Comment in: N Engl J Med 1997 Apr 3;336(14):1022; discussion 1022–3.

The Friedreich's ataxia gene encodes a novel phosphatidylinositol-4- phosphate 5-kinase [see comments] Carvajal JJ, et al. **Nat Genet** 1996 Oct;14(2):157–62. Comment in: Nat Genet 1997 Apr;15(4):337–8.

Frataxin fracas [letter; comment] Cossée M, et al. **Nat Genet** 1997 Apr;15(4):337–8. Comment on: Nat Genet 1996 Oct;14(2):157–62.

Waiting for frataxin [news] Gray JV, et al. **Nat Genet** 1997 Aug;16(4):323–5

Somatic mosaicism for Friedreich's ataxia GAA triplet repeat expansions in the central nervous system. Montermini L, et al. **Neurology** 1997 Aug;49(2):606–10

Ataxia with isolated vitamin E deficiency in four siblings. Shorer Z, et al. **Pediatr Neurol** 1996 Nov;15(4):340–3

Evolution of the Friedreich's ataxia trinucleotide repeat expansion: founder effect and premutations. Cossée M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7452–7

Friedreich's ataxia protein: phylogenetic evidence for mitochondrial dysfunction. Gibson TJ, et al. **Trends Neurosci** 1996 Nov;19(11):465–8

[Genetics of peripheral neuropathies and hereditary ataxias] Palau F, et al. **Neurologia** 1995 Dec;10 Suppl 1:32–43 (94 ref.) (Eng. Abstr.) **(Spa)**

METABOLISM

Friedreich's ataxia protein: phylogenetic evidence for mitochondrial dysfunction. Gibson TJ, et al. **Trends Neurosci** 1996 Nov;19(11):465–8

PATHOLOGY

Friedreich's ataxia with isolated vitamin E deficiency: a neuropathological study of a Tunisian patient. Larnaout A, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):633–7

Brain levels of thiamine and its phosphate esters in Friedreich's ataxia and spinocerebellar ataxia type 1. Bettendorff L, et al. **Mov Disord** 1996 Jul;11(4):437–9

PHYSIOPATHOLOGY

Parasympathetic activity in Friedrich's ataxia. Pousset F, et al. **Am J Cardiol** 1996 Oct 1;78(7):847–50

Quantification of upper extremity function using kinematic analysis. Ramos E, et al. **Arch Phys Med Rehabil** 1997 May; 78(5):491–6

CO2-laser and electric somatosensory evoked potentials in Friedreich's ataxia. Amantini A, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:233–40

[The function of the hypothalamo-hypophyseal-gonadal system in patients with Friedreich's ataxia] Magzhanov RV. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):33–5 (Eng. Abstr.) **(Rus)**

FRIEDREICH'S DISEASE see **MYOCLONUS**

FRIEND VIRUS

Central nervous system lesions in rats infected with Friend murine leukemia virus-related PVC441: ultrastructural and immunohistochemical studies. Saida K, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):369–78

Cell-cycle kinetics of Friend erythroleukemia cells in a magnetically shielded room and in a low-frequency/low-intensity magnetic field [published erratum appears in Bioelectromagnetics 1997;18(4):339] Eremenko T, et al. **Bioelectromagnetics** 1997;18(1):58–66

Distribution of Fv-4 resistant gene product in Friend leukemia virus-resistant Fv-4r mouse strain. Kitagawa M, et al. **Exp Hematol** 1996 Oct;24(12):1423–31

Megakaryocyte-like increase in ploidy of Friend's erythroleukemia cells induced to endoreplication by colcemid. Paoletti F, et al. **Exp Hematol** 1996 Oct; 24(12):1441–8

Internal autocrine regulation by erythropoietin of erythroleukemic cell proliferation. Stage-Marroquín B, et al. **Exp Hematol** 1996 Sep;24(11):1322–6

Cure of mice with established metastatic friend leukemia cell tumors by a combined therapy with tumor cells expressing both interferon-alpha 1 and herpes simplex thymidine kinase followed by ganciclovir. Santodonato L, et al. **Hum Gene Ther** 1996 Jan;7(1):1–10

Factors affecting induction of neurological disorders in mice by paralysis-inducing Friend-related PVC viruses. Kai K, et al. **J Vet Med Sci** 1996 Apr;58(4):285–90

Fre-2, a locus closely linked to Fv-2, is rearranged in some erythroleukemias induced by Friend murine leukemia virus. Eisel D, et al. **Leukemia** 1997 Apr;11 Suppl 3:155–9

NF-E2p18/mafK is required in DMSO-induced differentiation of Friend erythroleukemia cells by enhancing NF-E2 activity. Francastel C, et al. **Leukemia** 1997 Feb;11(2):273–80

Cell-free transmission of Fv-4 resistance gene product controlling Friend leukemia virus-induced leukemogenesis in mice. Kitagawa M, et al. **Leukemia** 1997 Apr;11 Suppl 3:230–2

Deregulated expression of the PU.1 transcription factor blocks murine erythroleukemia cell terminal differentiation. Rao G, et al. **Oncogene** 1997 Jan 9;14(1):123–31

TNF-induced apoptosis in multidrug resistant friend erythroleukemia is not influenced by the P-glycoprotein and glutathione status of the cell line [published erratum appears in Oncol Res 1996;8(3):145] Flugy A, et al. **Oncol Res** 1995;7(10–11):559–64

CHEMISTRY

Structure of a murine leukemia virus receptor-binding glycoprotein at 2.0 angstrom resolution. Fass D, et al. **Science** 1997 Sep 12;277(5332):1662–6

DRUG EFFECTS

Anti-retroviral activity of methionine enkephalin and AZT in a murine cell culture. Sin JI, et al. **Int J Immunopharmacol** 1996 May;18(5):305–9

GENETICS

Enhancement of tumor associated antigen expression during the regression phase of xenogenized tumor cell growth in vivo. Shibata T, et al. **Anticancer Res** 1997 May-Jun; 17(3C):2135–40

p53-independent tumor growth and in vitro cell survival for F-MuLV-induced erythroleukemias. Howard J, et al. **Cell Growth Differ** 1996 Dec;7(12):1651–60

Fre2, a proviral integration site of Friend murine leukemia virus that is closely linked to Fv2. Friedrich RW, et al. **Leukemia** 1997 May;11(5):619–23 (31 ref.)

Clonal analysis of the late stages of erythroleukemia induced by two distinct strains of Friend leukemia virus. Mager D, et al. **Mol Cell Biol** 1981 Aug;1(8):721–30

Positional cloning of the mouse retrovirus restriction gene Fv1 [see comments] Best S, et al. **Nature** 1996 Aug 29; 382(6594):826–9. Comment in: Nature 1996 Aug 29;382(6594):762–3.

Retrovirus restriction revealed [news; comment] Coffin JM. **Nature** 1996 Aug 29;382(6594):762–3. Comment on: Nature 1996 Aug 29;382(6594):826–9.

Unique sequence and lesional tropism of a new variant of neuropathogenic friend murine leukemia virus. Takase-Yoden S, et al. **Virology** 1997 Jul 7;233(2):411–22

Retroviral pseudo-virus carrying the envelope proteins of neurotropic Friend murine leukemia virus effectively transferred retroviral vector into glial cells. Ikeda T, et al. **Virus Res** 1996 Jun;42(1–2):97–106

IMMUNOLOGY

Spontaneous priming for anti-viral envelope cytotoxic T lymphocytes in mice transgenic for a murine leukaemia virus envelope gene (Fv4). Nihrane A, et al. **Immunology** 1997 Feb;90(2):219–28

Identification of a gag-encoded cytotoxic T-lymphocyte epitope from FBL-3 leukemia shared by Friend, Moloney, and Rauscher murine leukemia virus-induced tumors. Chen W, et al. **J Virol** 1996 Nov;70(11):7773–82

Susceptibility of nude mice carrying the Fv-4 gene to Friend murine leukemia virus infection. Higo K, et al. **J Virol** 1997 Jan;71(1):750–4

ISOLATION & PURIFICATION

Immunity to retroviral infection: the Friend virus model. Hasenkrug KJ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7811–6 (95 ref.)

METABOLISM

Characterization of glycosylated Gag expressed by a neurovirulent murine leukemia virus: identification of differences in processing in vitro and in vivo. Fujisawa R, et al. **J Virol** 1997 Jul;71(7):5355–60

The critical N-linked glycan of murine leukemia virus envelope protein promotes both folding of the C-terminal domains of the precursor polyprotein and stability of the postcleavage envelope complex. Li Z, et al. **J Virol** 1997 Sep;71(9):7012–9

Analysis of the unique hamster cell tropism of ecotropic murine leukemia virus PVC-211. Masuda M, et al. **J Virol** 1996 Dec;70(12):8534–9

PATHOGENICITY

Pathogenesis of Friend leukemia virus. Ikawa Y. **Leukemia** 1997 Apr;11 Suppl 3:152–4

Molecular mechanism for retroviral neuropathogenesis: possible involvement of capillary endothelial cells. Masuda M, et al. **Leukemia** 1997 Apr;11 Suppl 3:233–5

Unique sequence and lesional tropism of a new variant of neuropathogenic friend murine leukemia virus. Takase-Yoden S, et al. **Virology** 1997 Jul 7;233(2):411–22

PHYSIOLOGY

Capillary endothelial cell tropism of PVC-211 murine leukemia virus and its application for gene transduction. Masuda M, et al. **J Virol** 1997 Aug;71(8):6168–73

Restriction of Friend virus-induced erythroid cell proliferation by CD4+ T-lymphocytes that recognize a single gp70 epitope. Miyazawa M, et al. **Leukemia** 1997 Apr;11 Suppl 3:227–9

Activation of the JAK1-STAT5 pathway by binding of the Friend virus gp55 glycoprotein to the erythropoietin receptor. Yamamura Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:432–4

[Effects of chloroquine on the replication of a murine retrovirus] Sinet PM, et al. **Bull Soc Pathol Exot** 1996; 89(3):175–8 (Eng. Abstr.) **(Fre)**

FRIENDSHIP see **INTERPERSONAL RELATIONS**

FRINGE BENEFITS see **SALARIES AND FRINGE BENEFITS**

FROEHLICH'S SYNDROME see **HYPOTHALAMIC DISEASES**

FROG, COMMON EUROPEAN see **RANA TEMPORARIA**

FROG, GREEN see **RANA ESCULENTA**

FROG, LEOPARD see **RANA PIPIENS**

FROG VENOMS see **AMPHIBIAN VENOMS**

FROGS AND TOADS see **ANURA**

FROGS, TRUE see **RANIDAE**

FRONTAL BONE

Intradiploic hematoma [letter] Uemura K, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):397–8

Adenocarcinoma of the lung with metastasis to the skull presenting as cystic lesions. Gray LC, et al. **J Am Acad Dermatol** 1997 Apr;36(4):644–6

Unusual frontal osteoma, mimicking a haemangioma. Saraç K, et al. **Neuroradiology** 1996 Jul;38(5):458–9

[A large fronto-temporal tumor as the first manifestation of a multiple myeloma (letter)] Marcos Sánchez F, et al. **An Med Interna** 1995 Nov;12(11):570 **(Spa)**

ABNORMALITIES

Polysyndactyly and trigonocephaly with partial agenesis of corpus callosum: an example of the variable clinical spectrum of the Acrocallosal syndrome? [letter] Fryns JP, et al. **Clin Dysmorphol** 1997 Jul;6(3):285–6

Hemifacial atrophy: a neurocutaneous disorder with coup de sabre deformity, telangiectatic naevus, aneurysmatic malformation of the internal carotid artery and crossed hemiatrophy [letter] Strenge H, et al. **J Neurol** 1996 Sep; 243(9):658–60

Experience with frontonasal dysplasia of varying severity. Qureshi IL, et al. **J Pediatr Surg** 1996 Jul;31(7):885–9

INJURIES

Giant cell reparative granuloma of the cranial vault. Uchino A, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1791–3

Long-term follow up of a growing skull fracture treated by dura and cranioplasty with artificial dura mater and methylmethacrylate. Hayashi Y, et al. **Childs Nerv Syst** 1997 Jun;13(6):349–51

Diagnosis and treatment of frontobasal skull fractures. Kral T, et al. **Neurosurg Rev** 1997;20(1):19–23

Frontal basilar trauma: classification and treatment. Burstein F, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1314–21; discussion 1322–3

[Management of frontobasal fractures: an interdisciplinary challenge (editorial)] Krier C, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Feb; 32(2):69–71 **(Ger)**

[Primary unrecognized gunshot wound in the frontal skull base] Keller A, et al. **Laryngorhinootologie** 1996 Dec; 75(12):772–4 (Eng. Abstr.) **(Ger)**

[The surgical correction of traumatic deformities of the orbit in naso-fronto-orbito-cribriform fractures] Mal'chikova LP, et al. **Stomatologiia (Mosk)** 1997;76(3):38–40 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Brief communication: evidence of pathology on the frontal bone from Gongwangling. Caspari R. **Am J Phys Anthropol** 1997 Apr;102(4):565–8

Giant epidermoid involving 3 cranial bones. Rumelt S, et al. **Arch Ophthalmol** 1997 Jul;115(7):922–4

Intracranial chondromyxoid fibroma. Report of a case and review of the literature. Wolf DA, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):626–30 (23 ref.)

Intradiploic arachnoid cyst: case report. Alfieri A, et al. **Neuroradiology** 1996 Aug;38(6):569–71

PHYSIOPATHOLOGY

Craniofacial speargun injury. Hefer T, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):553–5

RADIONUCLIDE IMAGING

Leukocyte-marrow scintigraphy in hyperostosis frontalis interna. Torres MA, et al. **J Nucl Med** 1997 Aug; 38(8):1283–5

SURGERY

Intradiploic epidermoid cyst of the frontal bone presenting with tension pneumocephalus. Jakubowski E, et al. **Acta Neurochir (Wien)** 1997;139(1):86–7

Pott's puffy tumor due to Haemophilus influenzae: case report and review. Verbon A, et al. **Clin Infect Dis** 1996 Dec;23(6):1305–7 (15 ref.)

Glabellar approach: simplified midline anterior skull base approach. Jho HD, et al. **Minim Invasive Neurosurg** 1997 Jun;40(2):62–7

Symptomatic hypertrophic pacchionian granulation mimicking bone tumor: case report. Kuroiwa T, et al. **Neurosurgery** 1996 Oct;39(4):860–2

Craniofacial skeletal fixation using biodegradable plates and cyanoacrylate glue. Ahn DK, et al. **Plast Reconstr Surg** 1997 May;99(6):1508–15; discussion 1516–7

The use of porous granular hydroxyapatite in secondary orbitocranial reconstruction. Burstein FD, et al. **Plast Reconstr Surg** 1997 Sep;100(4):869–74

[The surgical correction of traumatic deformities of the orbit in naso-fronto-orbito-cribriform fractures] Mal'chikova LP, et al. **Stomatologiia (Mosk)** 1997;76(3):38–40 (Eng. Abstr.) **(Rus)**

[Intracranial hypertension syndrome due to giant frontoethmoidal osteoma] Carbonell J, et al. **Acta Otorrinolaringol Esp** 1996 Sep-Oct;47(5):397–400 (Eng. Abstr.) **(Spa)**

FRONTAL LOBE

Frontal glioma presenting as anxiety and obsessions: a case report. John G, et al. **Acta Neurol Scand** 1997 Sep; 96(3):194–5

Linkage of frontotemporal dementia to chromosome 17: clinical and neuropathological characterization of phenotype. Yamaoka LH, et al. **Am J Hum Genet** 1996 Dec;59(6):1306–12

Frontotemporal dementia and parkinsonism linked to chromosome 17: a consensus conference. Conference Participants. Foster NL, et al. **Ann Neurol** 1997 Jun; 41(6):706–15 (41 ref.)

Clinical characteristics of a chromosome 17-linked rapidly progressive familial frontotemporal dementia. Basun H, et al. **Arch Neurol** 1997 May;54(5):539–44

Alzheimer disease and frontotemporal dementias. Behavioral distinctions [see comments] Levy ML, et al. **Arch Neurol** 1996 Jul;53(7):687–90. Comment in: Arch Neurol 1997 Apr;54(4):350.

Frontal lobe tumours. Aitken EM, et al. **Br J Clin Pract** 1996 Sep;50(6):339–41

Familial dementia of frontal lobe type. Wong AH, et al. **Can J Psychiatry** 1996 Dec;41(10):645–7

Generation effect in short-term verbal and visuospatial memory: comparisons between dementia of Alzheimer type and dementia of frontal lobe type. Souliez L, et al. **Cortex** 1996 Jun;32(2):347–56

Apolipoprotein E in cerebrospinal fluid from patients with Alzheimer's disease and other forms of dementia is reduced but without any correlation to the apoE4 isoform. Landén M, et al. **Dementia** 1996 Sep-Oct;7(5):273–8

Glial fibrillary acidic protein in the cerebrospinal fluid of patients with dementia. Wallin A, et al. **Dementia** 1996 Sep-Oct;7(5):267–72

Ukrain therapy in a frontal anaplastic grade III astrocytoma (case report). Steinacker J, et al. **Drugs Exp Clin Res** 1996; 22(3-5):275–7

Frontal lobe syndrome after a left genu capsular infarction. Moreaud O, et al. **Eur Neurol** 1996;36(5):322–4

Herpes vector-mediated delivery of marker genes to disseminated central nervous system tumors. Kramm CM, et al. **Hum Gene Ther** 1996 Feb 10;7(3):291–300

Symptomatological characteristics distinguish between frontotemporal dementia and vascular dementia with a dominant frontal lobe syndrome. Sjögren M, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):656–61

Anatomy and function of the orbital frontal cortex, I: anatomy, neurocircuitry; and obsessive-compulsive disorder. Zald DH, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):125–38 (119 ref.)

Intraparenchymal schwannoma of the frontal lobe. Deogaonkar M, et al. **J Postgrad Med** 1994 Oct-Dec; 40(4):218–9

Phylogenetic development of brain and brain sulci in primates. Imagawa M, et al. **Kobe J Med Sci** 1996 Feb; 42(1):61–72

Unusual chromosome abnormalities in primary central nervous system lymphoma. Zattara-Cannoni H, et al. **Leuk Lymphoma** 1996 May;21(5-6):515–7

Intracranial epidermoid and dermoid cysts. Results of microneurosurgery. Bucciero A, et al. **Minerva Chir** 1997 Jun;52(6):863–6

Low grade astrocytoma in the medial part of the frontal lobe manifesting as paroxysmal speech disturbance—case report. Takano S, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):185–8

Midline cerebral morphometry distinguishes frontotemporal dementia and Alzheimer's disease. Kaufer DI, et al. **Neurology** 1997 Apr;48(4):978–85

Anterior opercular syndrome, caused by herpes simplex encephalitis. McGrath NM, et al. **Neurology** 1997 Aug; 49(2):494–7

A study of the Lund-Manchester research criteria for frontotemporal dementia: clinical and single-photon emission CT correlations. Miller BL, et al. **Neurology** 1997 Apr;48(4):937–42

Spinal metastases of cerebral glioma. Case report. Koch D. **Neurosurg Rev** 1996;19(3):201–3

Homozygous p53 gene mutation in a radiation-induced glioblastoma 10 years after treatment for an intracranial germ cell tumor: case report. Tada M, et al. **Neurosurgery** 1997 Feb;40(2):393–6

Palisades in cerebral astrocytoma simulating the so-called polar spongioblastoma: a histological, immunohistochemical, and electron microscopical study of an adult case. Yagishita S, et al. **Noshuyo Byori** 1996 Apr; 13(1):21–5

[Complex partial status epilepticus in a patient with a frontal cavernous angiomas] Eguchi T, et al. **No Shinkei Geka** 1996 Mar;24(3):259–62 (Eng. Abstr.) **(Jpn)**

[Frontal lobe-type dementia associated with motor neuron disease] Santana I, et al. **Acta Med Port** 1995 Nov; 8(11):629–34 (50 ref.) (Eng. Abstr.) **(Por)**

[Uveitis and primary cerebral lymphoma (letter)] Márquez de Prado Urquia MM, et al. **An Med Interna** 1996 Sep; 13(9):464 **(Spa)**

ABNORMALITIES

Structural abnormalities in brain magnetic resonance images of depressed children. Steingard RJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):307–11

Bilateral, perisylvian and rolandic cortical dysplasia in trisomy 13 syndrome. Nuri Sener R. **J Neuroradiol** 1996 Dec;23(4):231–3

Septo-optic dysplasia associated with cerebral cortical dysplasia (cortico-septo-optic dysplasia). Nuri Sener R. **J Neuroradiol** 1996 Dec;23(4):245–7

Familial and developmental abnormalities of front lobe function and neurochemistry in schizophrenia. Deakin FW, et al. **J Psychopharmacol (Oxf)** 1997;11(2):133–42 (110 ref.)

ANATOMY & HISTOLOGY

Frontal lobe activation during word generation studied by functional MRI. Pujol J, et al. **Acta Neurol Scand** 1996 Jun;93(6):403–10

Frontostriatal measurement in treatment-naive children with obsessive-compulsive disorder [see comments] Rosenberg DR, et al. **Arch Gen Psychiatry** 1997 Sep;54(9):824–30. Comment in: Arch Gen Psychiatry 1997 Sep;54(9):785–9.

Cortical networks for visual reaching: physiological and anatomical organization of frontal and parietal lobe arm regions. Johnson PB, et al. **Cereb Cortex** 1996 Mar-Apr; 6(2):102–19

The frontal cortex-basal ganglia system in primates. Wise SP, et al. **Crit Rev Neurobiol** 1996;10(3-4):317–56 (443 ref.)

In vivo morphometry of the intrasulcal gray matter in the human cingulate, paracingulate, and superior-rostral sulci: hemispheric asymmetries, gender differences and probability maps. Paus T, et al. **J Comp Neurol** 1996 Dec 23;376(4):664–73

The evolution of the frontal lobes: a volumetric analysis based on three-dimensional reconstructions of magnetic resonance scans of human and ape brains. Semendeferi K, et al. **J Hum Evol** 1997 Apr;32(4):375–88

Thalamocortical projection from the parafascicular nucleus to layer V pyramidal cells in frontal and cingulate areas of the rat. Marini G, et al. **Neurosci Lett** 1996 Jan 19; 203(2):81–4

Is there a superior occipitofrontal fasciculus? A microsurgical anatomic study. Türe U, et al. **Neurosurgery** 1997 Jun; 40(6):1226–32

High spatial resolution MRI and proton MRS of human frontal cortex. López-Villegas D, et al. **NMR Biomed** 1996 Oct;9(7):297–304

Specialized systems for the processing of mnemonic information within the primate frontal cortex. Petrides M. **Philos Trans R Soc Lond B Biol Sci** 1996 Oct 29; 351(1346):1455–61; discussion 1461–2 (30 ref.)

Measurement of frontal lobe volume on magnetic resonance imaging scans. Aylward EH, et al. **Psychiatry Res** 1997 Aug 8;75(1):23–30

Stereological MRI volumetry of the frontal lobe. Sheline YI, et al. **Psychiatry Res** 1996 Oct 7;67(3):203–14

BLOOD SUPPLY

The accessory middle cerebral artery as a collateral blood supply. Komiyama M, et al. **AJNR Am J Neuroradiol** 1997

Mar;18(3):587–90

Postural and gait disturbance correlated with decreased frontal cerebral blood flow in Alzheimer disease. Nakamura T, et al. **Alzheimer Dis Assoc Disord** 1997 Sep;11(3):132–9

Single photon emission computerised tomography in chronic alcoholism. Antisocial personality disorder may be associated with decreased frontal perfusion. Kuruoğlu AC, et al. **Br J Psychiatry** 1996 Sep;169(3):348–54

Focal brain dysfunction in a 41-year old man with familial alternating hemiplegia. Dangond F, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(1):35–41 (37 ref.)

Regional cerebral blood flow in the covert reading of kana words: a comparison with the study of reading aloud tasks. Sakurai Y, et al. **Eur Neurol** 1996;36(4):237–9

Applied anatomy of the extracerebral part of the arteria centralis longa. Kwolek-Klimkiewicz J, et al. **Folia Morphol (Warsz)** 1996;55(4):371–2

Physostigmine reversal of scopolamine-induced hypofrontality. Prohovnik I, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):220–8

A case of late-onset psychosis: integrating neuropsychological and SPECT data. Cloud BS, et al. **J Geriatr Psychiatry Neurol** 1996 Jul;9(3):146–53

Visual neglect associated with frontal lobe infarction. Husain M, et al. **J Neurol** 1996 Sep;243(9):652–7

The anatomical variations of sylvian veins and cisterns. Aydin IH, et al. **Minim Invasive Neurosurg** 1997 Jun;40(2):68–73

False recognition and the right frontal lobe: a case study. Schacter DL, et al. **Neuropsychologia** 1996 Aug; 34(8):793–808

Anatomic study of anterior frontal cortical bridging veins with special reference to the frontopolar vein. Sampei T, et al. **Neurosurgery** 1996 May;38(5):971–5

Focal cerebral perfusion defects demonstrated by 99mTc-hexamethylpropyleneamine oxime SPECT in elderly depressed patients. Vasile RG, et al. **Psychiatry Res** 1996 May 31;67(1):59–70

Motor behavior in stroke patients with isolated medial frontal ischemic infarction. Chamorro A, et al. **Stroke** 1997 Sep; 28(9):1755–60

[Balance of neuromediatory amino acids and impairment of integral brain activity caused by local ischemia of frontal lobe in rats: effects of piracetam and glycine] Raevskiĭ KS, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):370–3 **(Rus)**

[Relation between frontal lobe blood flow and cognitive performance in Huntington's disease] Gómez-Tortosa E, et al. **Neurologia** 1996 Aug-Sep;11(7):251–6 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Parvalbumin-containing cells of the angular portion of the vertical limb terminate on calbindin-immunoreactive neurons located at the border between the lateral and medial septum of the rat. Kiss J, et al. **Exp Brain Res** 1997 Jan;113(1):48–56

Regional and cellular localization of presenilin-2 RNA in rat and human brain. Benkovic SA, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):555–64

cDNAs with long CAG trinucleotide repeats from human brain. Margolis RL, et al. **Hum Genet** 1997 Jul; 100(1):114–22

Subordination induced decrease in 5-hydroxytryptamine and dopamine levels in the frontal cortex—a study using worker-parasite relationship in rats as a model. Dhingra NK, et al. **Indian J Physiol Pharmacol** 1996 Jul;40(3):213–9

Brain samples from Alzheimer's patients have elevated levels of loosely bound iron. Kala SV, et al. **Int J Neurosci** 1996 Sep;86(3–4):263–9

Identification of a rat brain gene associated with aging by PCR differential display method. Wu HC, et al. **J Mol Neurosci** 1997 Feb;8(1):13–8

Distribution and subcellular localization of high-molecular-weight microtubule-associated protein-2 expressing exon 8 in brain and spinal cord. Shafit-Zagardo B, et al. **J Neurochem** 1997 Feb;68(2):862–73

Endogenous opioids in frontal cortex of patients with Down syndrome. Risser D, et al. **Neurosci Lett** 1996 Jan 19; 203(2):111–4

Analysis of NPY receptor subtypes in the human frontal cortex reveals abundant Y1 mRNA and binding sites. Statnick MA, et al. **Peptides** 1997;18(1):137–43

Biochemical changes in the frontal lobe of HIV-infected individuals detected by magnetic resonance spectroscopy. López-Villegas D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9854–9

Transient elevation of nerve growth factor content in the rat hippocampus and frontal cortex by chronic ethanol treatment. Nakano T, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):157–60

Increased levels of extracellular noradrenaline in the frontal cortex of rats exposed to naturalistic environmental stimuli: modulation by acute systemic administration of diazepam or buspirone. Dalley JW, et al. **Psychopharmacology (Berl)** 1996 Sep;127(1):47–54

Decreased frontal cortical serotonin2A receptors in schizophrenia. Dean B, et al. **Schizophr Res** 1996 Sep 18; 21(3):133–9

CYTOLOGY

Prearcuate cortex in the Cebus monkey has cortical and subcortical connections like the macaque frontal eye field and projects to fastigial-recipient oculomotor-related brainstem nuclei. Leichnetz GR, et al. **Brain Res Bull** 1996; 41(1):1–29

NMDA and non-NMDA synaptic currents in rat neocortex during early postnatal development. Hablitz JJ, et al. **Epilepsy Res Suppl** 1996;12:45–52

Rapid kinetics and inward rectification of miniature EPSCs in layer I neurons of rat neocortex. Zhou FM, et al. **J Neurophysiol** 1997 May;77(5):2416–26

Laminar localization, morphology, and physiological properties of pyramidal neurons that have the low-threshold calcium current in the guinea-pig medial frontal cortex. de la Peña E, et al. **J Neurosci** 1996 Sep 1;16(17):5301–11

[The cytoarchitectonic characteristics of the frontal fields of the brain in gifted people] Orzhekhovskaia NS. **Morfologiia** 1996;109(3):7–9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Cardiovascular responses to glutamate stimulation of diagonal band of Broca. Kirouac GJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H540–5

Aconitine, a main component of aconite, increases spontaneous acetylcholine release from the frontal cerebral cortex of freely moving rats. Kimura I, et al. **Biol Pharm Bull** 1996 Nov;19(11):1440–2

Frontal lobe tasks, antipsychotic medication, and schizophrenia syndromes. Himelhoch S, et al. **Biol Psychiatry** 1996 Feb 1;39(3):227–9

Increased manganese-superoxide dismutase activity in postmortem brain from neuroleptic-treated psychotic patients. Loven DP, et al. **Biol Psychiatry** 1996 Aug 1; 40(3):230–2

Effects of ketamine and pentobarbitone on acetylcholine release from the rat frontal cortex in vivo. Kikuchi T, et al. **Br J Anaesth** 1997 Jul;79(1):128–30

Functional characterization of 5-HT1D autoreceptors on the modulation of 5-HT release in guinea-pig mesencephalic raphe, hippocampus and frontal cortex. el Mansari M, et al. **Br J Pharmacol** 1996 Jun;118(3):681–9

Botulinum toxin does not reverse the cortical dysfunction associated with writer's cramp. A PET study. Ceballos-Baumann AO, et al. **Brain** 1997 Apr;120 (Pt 4):571–82

Galparan induces in vivo acetylcholine release in the frontal cortex. Consolo S, et al. **Brain Res** 1997 May 9; 756(1–2):174–8

Effect of corticosterone on serotonin and catecholamine receptors and uptake sites in rat frontal cortex. Crayton JW, et al. **Brain Res** 1996 Jul 29;728(2):260–2

Simultaneous determination of cholecystokinin-like immunoreactivity and dopamine release after treatment with veratrine, NMDA, scopolamine and SCH23390 in rat medial frontal cortex: a brain microdialysis study. Liu JK, et al. **Brain Res** 1996 Sep 30;735(1):30–5

Microdialysis monitoring of variations in extracellular levels of serotonin, GABA and excitatory amino acids in the frontal cortex of awake rats in response to a single peripheral or central administration of dexfenfluramine. Rocher C, et al. **Brain Res** 1996 Oct 21;737(1–2):221–30

Acetylcholine release from frontal cortex in the waking rat measured by microdialysis without acetylcholinesterase inhibitors: effects of diisopropylfluorophosphate. Testylier G, et al. **Brain Res** 1996 Nov 18;740(1–2):307–15

DCG-IV, a potent metabotropic glutamate receptor agonist, as an NMDA receptor agonist in the rat cortical slice. Uyama Y, et al. **Brain Res** 1997 Mar 28;752(1–2):327–30

Changes in the sensitivity of frontal cortical neurones to acetylcholine after unilateral lesion of the nucleus basalis with alpha-amino-3-OH-4-isoxozole propionic acid (AMPA): effects of basal forebrain transplants into neocortex. Abdulla FA, et al. **Brain Res Bull** 1997; 42(3):169–86

Influence of fluoxetine and p-chloroamphetamine on the somatostatin receptor-adenylyl cyclase system in the rat frontoparietal cortex. Muñoz-Acedo G, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):117–24

Phosphatidylethanol inhibits phosphatidylinositol-phospholipase C activity in a competitive manner with phosphatidylinositol-4,5-bisphosphate. Nishida A, et al. **Drug Alcohol Depend** 1997 Mar 14;44(2–3):117–22

5-HT2A receptor antagonists inhibit potassium-stimulated gamma-aminobutyric acid release in rat frontal cortex. Cozzi NV, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):25–31

Effect of VA-045 on central noradrenergic neuronal system in rats. Okuyama S, et al. **Gen Pharmacol** 1996 Sep; 27(6):1013–7

Rat strain differences in the vulnerability of serotonergic nerve endings to neurotoxic damage by p-chloroamphetamine. Zhou D, et al. **J Neural Transm** 1996;103(12):1381–95

Local and distributed effects of apomorphine on fronto-temporal function in acute unmedicated schizophrenia. Fletcher PC, et al. **J Neurosci** 1996 Nov 1;16(21):7055–62

Phencyclidine increases forebrain monoamine metabolism in rats and monkeys: modulation by the isomers of HA966. Jentsch JD, et al. **J Neurosci** 1997 Mar 1;17(5):1769–75

S 15535, a novel benzodioxopiperazine ligand of serotonin (5-HT)1A receptors: I. Interaction with cloned human (h)5-HT1A, dopamine hD2/hD3 and h alpha2A-adrenergic receptors in relation to modulation of cortical monoamine release and activity in models of potential antidepressant activity. Millan MJ, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):132–47

A microdialysis study of glycinamide, glycine and other amino acid neurotransmitters in rat frontal cortex and hippocampus after the administration of milacemide, a glycine pro-drug. Doheny MH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):157–63

Overflow of noradrenaline and dopamine in frontal cortex after [N-(2-chloroethyl)-N-ethyl-2-bromobenzylamine] (DSP-4) treatment: in vivo microdialysis study in anaesthetized rats. Kask A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):267–72

Regional differences in the effect of the combined treatment of WAY 100635 and fluoxetine: an in vivo microdialysis study. Malagié I, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):785–90

Cholecystokinin-8S increases dynorphin B, aspartate and glutamate release in the fronto-parietal cortex of the rat via different receptor subtypes. You ZB, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):576–81

Neuropeptide Y receptors from calf brain: effect of crude Conus venom preparations on [3H]NPY binding. Czerwiec E, et al. **Neurochem Int** 1996 Dec;29(6):669–76

Addition of lithium to chronic antidepressant treatment potentiates presynaptic serotonergic function without changes in serotonergic receptors in the rat cerebral cortex. Okamoto Y, et al. **Neuropsychobiology** 1996;33(1):17–20

Effects of chronic exposure to desipramine and mianserin on Ca2+ mobilization induced by noradrenaline, acetylcholine, and high K+ in rat frontocortical neurons. Shimizu M, et al. **Neuropsychobiology** 1996;33(2):66–70

Region-specific serotonin1A receptor turnover following irreversible blockade with EEDQ. Keck BJ, et al. **Neuroreport** 1996 Nov 4;7(15–17):2717–21

Regulation of human thought by neuropeptide ACTH 4–10: an analysis of the EEG's dimensional complexity. Mölle M, et al. **Neuroreport** 1997 Aug 18;8(12):2715–20

Concentration of putrescine in plasma, frontal cortex and hippocampus of rats after systemic administration of the convulsants N-methyl-D-aspartate, pentylentetrazol, picrotoxinine, lindane and 4-aminopyridine. Giménez-Llort L, et al. **Neurosci Lett** 1996 Oct 11; 217(1):1–4

G-protein activation by metabotropic glutamate receptors reduces spike frequency adaptation in neocortical neurons. Burke JP, et al. **Neuroscience** 1996 Nov;75(1):123–31

Ethanol inhibition of reduced frequency-dependent rundown of calcium currents in acutely dissociated MS/nDB neurons from chronic in vivo lead-exposed adult rats. Grover CA, et al. **Neurotoxicology** 1997;18(1):179–90

Alteration in some membrane properties in rat brain following exposure to manganese. Kumar R, et al. **Pharmacol Toxicol** 1996 Jul;79(1):47–8

Repeated cocaine administration down-regulates glucocorticoid receptors in the rat brain cortex and hippocampus. Budziszewska B, et al. **Pol J Pharmacol** 1996 Nov-Dec;48(6):575–81

Transient elevation of nerve growth factor content in the rat hippocampus and frontal cortex by chronic ethanol treatment. Nakano T, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):157–60

Sensitivity of rat frontal cortical neurones to nicotine is increased by chronic administration of nicotine and by lesions of the nucleus basalis magnocellularis: comparison with numbers of [3H]nicotine binding sites. Abdulla FA, et al. **Synapse** 1995 Dec;21(4):281–8

Differential effects of phencyclidine and methamphetamine on dopamine metabolism in rat frontal cortex and striatum as revealed by in vivo dialysis. Nishijima K, et al. **Synapse** 1996 Apr;22(4):304–12

EMBRYOLOGY

Heme oxygenase activity and acute and chronic ethanol exposure in the hippocampus, frontal cerebral cortex, and cerebellum of the near-term fetal guinea pig. Cook MN, et al. **Alcohol** 1997 Mar-Apr;14(2):117–24

Prenatal development of NADPH-diaphorase-reactive neurons in human frontal cortex. Yan XX, et al. **Cereb Cortex** 1996 Sep-Oct;6(5):737–45

ENZYMOLOGY

Selective reduction of monoamine oxidase A and B in the frontal cortex of subordinate rats. Dhingra NK, et al. **Brain Res** 1997 May 30;758(1–2):237–40

Effect of dopaminergic drugs on processing and degradative neuropeptidase mRNA in rat frontal cortex and caudate-putamen. Waters SM, et al. **Brain Res** 1997 Apr 18;754(1–2):28–34

Ontogeny of heme oxygenase activity in the hippocampus, frontal cerebral cortex, and cerebellum of the guinea pig. Cook MN, et al. **Brain Res Dev Brain Res** 1996 Mar 29; 92(1):18–23

Neuronal nitric oxide synthase (nNOS) mRNA expression and NADPH-diaphorase staining in the frontal cortex,

visual cortex and hippocampus of control and Alzheimer's disease brains. Norris PJ, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):36–49

Prenatal development of NADPH-diaphorase-reactive neurons in human frontal cortex. Yan XX, et al. **Cereb Cortex** 1996 Sep–Oct;6(5):737–45

Glycogen synthase kinase 3 alteration in Alzheimer disease is related to neurofibrillary tangle formation. Baum L, et al. **Mol Chem Neuropathol** 1996 Oct–Dec;29(2–3):253–61

Cortical cathepsin D activity and immunolocalization in Alzheimer disease, critical coronary artery disease, and aging. Haas U, et al. **Mol Chem Neuropathol** 1996 Sep; 29(1):1–14

GROWTH & DEVELOPMENT

A topographical ERP study of healthy premature 5-year-old children in the auditory and visual modalities. Lavoie ME, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 104(3):228–43

Region-specific developmental patterns of atrial natriuretic factor- and nitric oxide-activated guanylyl cyclases in the postnatal frontal rat brain. Markerink-Van Ittersum M, et al. **Neuroscience** 1997 May;78(2):571–87

IMMUNOLOGY

Different variants of frontotemporal dementia: a neuropathological and immunohistochemical study. Bergmann M, et al. **Acta Neuropathol (Berl)** 1996 Aug; 92(2):170–9

Progressive supranuclear palsy with fronto-temporal atrophy and various tau-positive abnormal structures. Li F, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):319–23

Regulation of immunolabelled mu-opioid receptors and protein kinase C-alpha and zeta isoforms in the frontal cortex of human opiate addicts. García-Sevilla JA, et al. **Neurosci Lett** 1997 Apr 18;226(1):29–32

INJURIES

Posttraumatic olfactory dysfunction: MR and clinical evaluation. Yousem DM, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1171–9

Salutary change after frontal brain trauma. Labbate LA, et al. **Ann Clin Psychiatry** 1997 Mar;9(1):27–30

Traumatic cerebrospinal fluid leakage: risk factors and the use of prophylactic antibiotics. Choi D, et al. **Br J Neurosurg** 1996 Dec;10(6):571–5

Retrieval of old memories: the temporofrontal hypothesis. Kroll NE, et al. **Brain** 1997 Aug;120 (Pt 8):1377–99

The effects of frontal lobe damage on everyday problem solving. Dimitrov M, et al. **Cortex** 1996 Jun;32(2):357–66

Synaptic remodeling and free radical formation after brain contusion injury in the rat. Jørgensen OS, et al. **Exp Neurol** 1997 Apr;144(2):326–38

Dual task performance after focal cerebral lesions and closed head injuries. Vilkki J, et al. **Neuropsychologia** 1996 Nov; 34(11):1051–6

Reduced eticlopride-induced Fos expression in caudate-putamen and globus pallidus after unilateral frontal cortex injury: relation to neglect. Vargo JM, et al. **Neuroscience** 1997 Feb;76(4):1083–95

METABOLISM

Increased levels of glutamate in patients with subarachnoid haemorrhage as measured by intracerebral microdialysis. Nilsson OG, et al. **Acta Neurochir Suppl (Wien)** 1996; 67:45–7

Adaptative changes of the serotonergic system after antidepressant treatments. Artigas F, et al. **Adv Exp Med Biol** 1996;398:51–9

Frontotemporal dementia is on the MAPtau [editorial] Wilhelmsen KC. **Ann Neurol** 1997 Feb;41(2):139–40

Elevated frontal lobe cytosolic choline levels in minimal or mild AIDS dementia complex patients: a proton magnetic resonance spectroscopy study. English CD, et al. **Biol Psychiatry** 1997 Feb 15;41(4):500–2

Long-term food restriction down-regulates the density of serotonin transporters in the rat frontal cortex. Huether G, et al. **Biol Psychiatry** 1997 Jun 15;41(12):1174–80

A postmortem study of frontal cortical dopamine D1 receptors in schizophrenics, psychiatric controls, and normal controls. Knable MB, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1191–9

Increased manganese-superoxide dismutase activity in postmortem brain from neuroleptic-treated psychotic patients. Loven DP, et al. **Biol Psychiatry** 1996 Aug 1; 40(3):230–2

Acute hypertension increases norepinephrine release in the diagonal band of Broca. Bealer SL. **Brain Res** 1997 Jan 16;745(1–2):313–6

Galparan induces in vivo acetylcholine release in the frontal cortex. Consolo S, et al. **Brain Res** 1997 May 9; 756(1–2):174–8

A critical role for D1 receptors in the 5-HT1A-mediated facilitation of in vivo acetylcholine release in rat frontal cortex. Consolo S, et al. **Brain Res** 1996 Jan 29;707(2):320–3

Two distinct subgroups of cholecystokinin-immunoreactive cortical interneurons. Kubota Y, et al. **Brain Res** 1997 Mar 28;752(1–2):175–83

Regulation of cyclic GMP levels in the rat frontal cortex in vivo: effects of exogenous carbon monoxide and phosphodiesterase inhibition. Laitinen KS, et al. **Brain Res** 1997 May 2;755(2):272–8

Compartment analysis of cerebral glucose metabolism and in vitro glucose-metabolizing enzyme activities in the rat brain. Ouchi Y, et al. **Brain Res** 1996 Jan 15;706(2):267–72

Galanin gene expression declines with adulthood in the cholinergic fields of the horizontal diagonal band of male rats. Planas B, et al. **Brain Res** 1996 Jul 22;728(1):57–64

Alpha 2-adrenoceptor subtypes in the human brain: a pharmacological delineation of [3H]RX-821002 binding to membranes and tissue sections. Grijalba B, et al. **Eur J Pharmacol** 1996 Aug 22;310(1):83–93

Increased noradrenaline efflux induced by local infusion of fluoxetine in the rat frontal cortex. Hughes ZA, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):83–90

The role of 5-HT(1B/1D) receptors in the modulation of 5-hydroxytryptamine levels in the frontal cortex of the conscious guinea pig. Roberts C, et al. **Eur J Pharmacol** 1997 May 12;326(1):23–30

Metabolic hyperfrontality and psychopathology in the ketamine model of psychosis using positron emission tomography (PET) and [18F]fluorodeoxyglucose (FDG). Vollenweider FX, et al. **Eur Neuropsychopharmacol** 1997 Feb;7(1):9–24

Gene expression of Alzheimer-associated presenilin-2 in the frontal cortex of Alzheimer and aged control brain. Deng G, et al. **FEBS Lett** 1996 Sep 23;394(1):17–20

Essential fatty acid preparation reduces cholesterol and fatty acids in rat cortex. Yehuda S, et al. **Int J Neurosci** 1996 Sep;86(3–4):249–56

The antiparkinsonian drug budipine binds to NMDA and sigma receptors in postmortem human brain tissue. Kornhuber J, et al. **J Neural Transm Suppl** 1995;46:131–7

Potentiation of the fluoxetine-induced increase in dialysate levels of serotonin (5-HT) in the frontal cortex of freely moving rats by combined blockade of 5-HT1A and 5-HT1B receptors with WAY 100,635 and GR 127,935. Gobert A, et al. **J Neurochem** 1997 Mar;68(3):1159–63

Buspirone enhances duloxetine- and fluoxetine-induced increases in dialysate levels of dopamine and noradrenaline, but not serotonin, in the frontal cortex of freely moving rats. Gobert A, et al. **J Neurochem** 1997 Mar;68(3):1326–9

Dopamine D3 (auto) receptors inhibit dopamine release in the frontal cortex of freely moving rats in vivo. Gobert A, et al. **J Neurochem** 1996 May;66(5):2209–12

Dysfunction of cholinergic and dopaminergic neuronal systems in beta-amyloid protein--infused rats. Itoh A, et al. **J Neurochem** 1996 Mar;66(3):1113–7

Stress- and yohimbine-induced release of cholecystokinin in the frontal cortex of the freely moving rat: prevention by diazepam but not ondansetron. Nevo I, et al. **J Neurochem** 1996 May;66(5):2041–9

Involvement of presynaptic histamine H3 receptors in the modulation of somatostatin binding and its effects on adenylyl cyclase activity in the rat frontoparietal cortex. Puebla L, et al. **J Neurochem** 1996 Mar;66(3):1051–9

Chronic antidepressant exposure enhances 5-hydroxytryptamine7 receptor-mediated cyclic adenosine monophosphate accumulation in rat frontocortical astrocytes. Shimizu M, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1551–8

Excitatory amino acids and monoamines in parahippocampal gyrus and frontal cortical pole of adults with Down syndrome. Risser D, et al. **Life Sci** 1997;60(15):1231–7

Elimination of artifacts in short echo time H MR spectroscopy of the frontal lobe. Ernst T, et al. **Magn Reson Med** 1996 Sep;36(3):462–8

Abnormal expression of serotonin transporter mRNA in the frontal and temporal cortex of schizophrenics. Hernandez I, et al. **Mol Psychiatry** 1997 Jan;2(1):57–64

5-HT1D and 5-HT1E/1F binding sites in depressed suicides: increased 5-HT1D binding in globus pallidus but not cortex. Lowther S, et al. **Mol Psychiatry** 1997 Jul; 2(4):314–21

[3H]WAY-100635 for 5-HT1A receptor autoradiography in human brain: a comparison with [3H]8-OH-DPAT and demonstration of increased binding in the frontal cortex in schizophrenia. Burnet PW, et al. **Neurochem Int** 1997 Jun;30(6):565–74

Mitochondrial involvement in schizophrenia and other functional psychoses. Whatley SA, et al. **Neurochem Res** 1996 Sep;21(9):995–1004

Reduced glucose metabolism in the frontal cortex and basal ganglia of multiple sclerosis patients with fatigue: a 18F-fluorodeoxyglucose positron emission tomography study. Roelcke U, et al. **Neurology** 1997 Jun;48(6):1566–71

Positron emission tomography and fluorodeoxyglucose studies of metabolic hyperfrontality and psychopathology in the psilocybin model of psychosis. Vollenweider FX, et al. **Neuropsychopharmacology** 1997 May;16(5):357–72

Intra-arterial infusion of [125I]A beta 1-40 labels amyloid deposits in the aged primate brain in vivo. Ghilardi JR, et al. **Neuroreport** 1996 Nov 4;7(15–17):2607–11

Relationships between beta-amyloid (A beta) deposits and blood vessels in patients with sporadic and familial Alzheimer's disease. Armstrong RA, et al. **Neurosci Lett** 1996 Apr 5;207(3):171–4

Thyroid hormone metabolism in the rat brain in an animal model of 'behavioral dependence' on ethanol. Baumgartner A, et al. **Neurosci Lett** 1997 May 9;227(1):25–8

Decreased absolute levels of ascorbic acid and unaltered vasoactive intestinal polypeptide receptor binding in the frontal cortex in acquired immunodeficiency syndrome. Everall IP, et al. **Neurosci Lett** 1997 Mar 14;224(2):119–22

Sex differences in benzodiazepine binding in the frontal cortex and amygdala of the rat 24 hours after restraint stress. Farabollini F, et al. **Neurosci Lett** 1996 Nov 8; 218(3):177–80

Decreased glutamate transporter (GLT-1) expression in frontal cortex of rats with acute liver failure. Knecht K, et al. **Neurosci Lett** 1997 Jul 4;229(3):201–3

The apolipoprotein E epsilon4 allele frequency is normal in fronto-temporal dementia, but correlates with age at onset of disease. Minthon L, et al. **Neurosci Lett** 1997 Apr 18; 226(1):65–7

No difference in the expression of the D4 gene in post-mortem frontal cortex from controls and schizophrenics. Mulcrone J, et al. **Neurosci Lett** 1996 Nov 29;219(3):163–6

Different effects of repeated stressful experiences on mesocortical and mesolimbic dopamine metabolism. Cabib S, et al. **Neuroscience** 1996 Jul;73(2):375–80

Region-specific developmental patterns of atrial natriuretic factor- and nitric oxide-activated guanylyl cyclases in the postnatal frontal rat brain. Markerink-Van Ittersum M, et al. **Neuroscience** 1997 May;78(2):571–87

Kynurenic acid and kynurenine aminotransferase in heart. Baran H, et al. **Pediatr Res** 1997 Mar;41(3):404–10

A juvenile case of frontotemporal dementia: neurochemical and neuropathological investigations. Nagaoka S, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1251–61

Serotonin-2 and dopamine-1 binding components of clozapine in frontal cortex and striatum in the human brain visualized by positron emission tomography. Lundberg T, et al. **Psychiatry Res** 1996 May 31;67(1):1–10

Cortical glucose metabolism in psychiatric wandering patients with vascular dementia. Meguro K, et al. **Psychiatry Res** 1996 May 31;67(1):71–80

Cerebral metabolic activity correlates of subsyndromes in chronic schizophrenia. Schroder J, et al. **Schizophr Res** 1996 Mar;19(1):41–53

Sensitivity of rat frontal cortical neurones to nicotine is increased by chronic administration of nicotine and by lesions of the nucleus basalis magnocellularis: comparison with numbers of [3H]nicotine binding sites. Abdulla FA, et al. **Synapse** 1995 Dec;21(4):281–8

Stimulation of cortical acetylcholine efflux by FG 7142 measured with repeated microdialysis sampling. Moore H, et al. **Synapse** 1995 Dec;21(4):324–31

Regulation of c-Fos and NGF1-A by antidepressant treatments. Morinobu S, et al. **Synapse** 1997 Apr; 25(4):313–20

Frontal cortex ablation reversibly decreases striatal zif/268 and junB expression: temporal correspondence with sensory neglect and its spontaneous recovery. Vargo JM, et al. **Synapse** 1996 Apr;22(4):291–303

Neurochemical changes in cocaine withdrawal. Kuhar MJ, et al. **Trends Pharmacol Sci** 1996 Jul;17(7):260–4 (53 ref.)

[Use of phosphatidylcholine liposomes for correction of phospholipid composition of mitochondria from medulla oblongata and frontal lobe during hemorrhagic shock in cats] Leskova GF, et al. **Biull Eksp Biol Med** 1997 Apr; 123(4):374–7 **(Rus)**

PATHOLOGY

Fluid-attenuated inversion recovery (FLAIR) in a patient with parasagittal white matter shearing injury. Kawamoto H, et al. **Acta Neurochir (Wien)** 1997;139(6):566–8

Frontal lobe degeneration of non-Alzheimer type. Structural characteristics, diagnostic criteria and relation to other frontotemporal dementias. Brun A, et al. **Acta Neurol Scand Suppl** 1996;168:28–30 (37 ref.)

Different variants of frontotemporal dementia: a neuropathological and immunohistochemical study. Bergmann M, et al. **Acta Neuropathol (Berl)** 1996 Aug; 92(2):170–9

Cystic ganglioneurocytoma outside the ventricular region. Funato H, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):95–8

Ubiquitin-related cytoskeletal abnormality in frontotemporal dementia: immunohistochemical and immunoelectron microscope studies. Kinoshita A, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):67–72

Alteration of white matter MR signal intensity in frontotemporal dementia. Kitagaki H, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):367–78

Glutamate receptors in the frontal cortex of alcoholics. Freund G, et al. **Alcohol Clin Exp Res** 1996 Oct; 20(7):1165–72

Frontal lobe volume loss observed with magnetic resonance imaging in older chronic alcoholics. Pfefferbaum A, et al. **Alcohol Clin Exp Res** 1997 May;21(3):521–9

Hereditary frontotemporal dementia is linked to chromosome 17q21-q22: a genetic and clinicopathological study of three Dutch families. Heutink P, et al. **Ann Neurol** 1997 Feb; 41(2):150–9

Diffuse vacuolization (spongiosis) and arteriolosclerosis in the frontal white matter occurs in vascular dementia. Erkinjuntti T, et al. **Arch Neurol** 1996 Apr;53(4):325–32

Executive function in multiple sclerosis. The role of frontal lobe pathology. Foong J, et al. **Brain** 1997 Jan;120 (Pt 1):15–26

Case of the month. August 1996--frontal lobe tumor in 11 year old girl. Hamilton R. **Brain Pathol** 1997 Jan;7(1):713–4

Thymus graft reverses morphological deficits in dorsolateral frontal cortex of congenitally athymic nude mice. Gaufo GO, et al. **Brain Res** 1997 May 9;756(1–2):191–9

Progressive supranuclear palsy with fronto–temporal atrophy and various tau–positive abnormal structures. Li F, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):319–23

Frontal lobe degeneration and Alzheimer's disease: a controlled study on clinical findings, volumetric brain changes and quantitative electroencephalography data. Förstl H, et al. **Dementia** 1996 Jan–Feb;7(1):27–34

Cortical synaptic changes and gliosis in normal aging, Alzheimer's disease and frontal lobe degeneration. Liu X, et al. **Dementia** 1996 May–Jun;7(3):128–34

Dementia of the frontal lobe type: report of the neuroimaging and neuropsychological results of a case study. Venneri A, et al. **Dementia** 1996 May–Jun;7(3):155–60

Urinary retention and space–occupying lesions of the frontal cortex. Lang EW, et al. **Eur Neurol** 1996;36(1):43–7

Progressive hemiparesis in frontal lobe degeneration. Schmidtke K, et al. **Eur Neurol** 1997;38(2):105–12 (56 ref.)

Frontal lobes pathology and dementia. An appraisal of the contribution of Leonardo Bianchi. Traykov L, et al. **Ital J Neurol Sci** 1997 Jun;18(3):129–34 (49 ref.)

Morphometrical investigations on lamina–V–pyramidal–neurons in the frontal cortex of a case with anorexia nervosa. Schönheit B, et al. **J Hirnforsch** 1996;37(2):269–80

Clinical features of frontal lobe dementia in comparison to Alzheimer's disease. Gregory CA, et al. **J Neural Transm Suppl** 1996;47:103–23 (67 ref.)

The neuropathologic diagnostic criteria of frontal lobe dementia revisited. A study of ten consecutive cases. Hauw JJ, et al. **J Neural Transm Suppl** 1996;47:47–59

Clinical and pathological characteristics of primary progressive aphasia and frontal dementia. Kertesz A, et al. **J Neural Transm Suppl** 1996;47:133–41

Frontal lobe dementia and motor neuron disease. Talbot PR. **J Neural Transm Suppl** 1996;47:125–32 (23 ref.)

Symmetrical cerebral metastasis presenting with bilateral upper extremity weakness. Wilck EJ, et al. **J Neuroimaging** 1996 Oct;6(4):254–6

Decreased N–acetyl–aspartate/choline ratio and increased lactate in the frontal lobe of patients with Huntington's disease: a proton magnetic resonance spectroscopy study. Harms L, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan; 62(1):27–30

Balo's concentric sclerosis: a clinical case study of brain MRI, biopsy, and proton magnetic resonance spectroscopic findings. Kim MO, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):655–8

Slowly progressive anarthria with late anterior opercular syndrome: a variant form of frontal cortical atrophy syndromes. Broussolle E, et al. **J Neurol Sci** 1996 Dec; 144(1–2):44–58

Abulia from unilateral capsular genu infarction: report of two cases. Yamanaka K, et al. **J Neurol Sci** 1996 Nov; 143(1–2):181–4

A neuronal and neuroanatomical correlate of HIV–1 encephalopathy relative to HIV–1 encephalitis in HIV–1–infected children. da Cunha A, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):974–87

Frontal cortical atrophy and negative symptoms in patients with chronic alcohol dependence. Rosse RB, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):280–2

The hippocampus: a "working memory" structure? The effect of hippocampal sclerosis on working memory. Cowey CM, et al. **Memory** 1996 Jan;4(1):19–30

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 12–1997. A 50–year–old woman with multiple sclerosis and an enlarging frontal–lobe mass [clinical conference] Paydarfar D, et al. **N Engl J Med** 1997 Apr 17;336(16):1163–71

Intraparenchymal meningioma in an infant—case report. Kohama I, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):598–601 (11 ref.)

Patterns of glial cell activity in fronto–temporal dementia (lobar atrophy). Cooper PN, et al. **Neuropathol Appl Neurobiol** 1996 Feb;22(1):17–22

GABA uptake sites in frontal cortex from suicide victims and in aging. Sundman I, et al. **Neuropsychobiology** 1997; 35(1):11–5

Rates of forgetting in organic amnesia following temporal lobe, diencephalic, or frontal lobe lesions. Kopelman MD, et al. **Neuropsychology** 1997 Jul;11(3):343–56

Effects of aging on conditional associative learning: process analyses and comparison with focal frontal lesions. Levine B, et al. **Neuropsychology** 1997 Jul;11(3):367–81

Giant cell tumor of the fronto–parietal bone. A case report. Kuzeyli K, et al. **Neurosurg Rev** 1995;18(4):265–8

Frontal brain and leptomeningeal biopsy specimens correlated with cerebrospinal fluid outflow resistance and B–wave activity in patients suspected of normal–pressure hydrocephalus. Bech RA, et al. **Neurosurgery** 1997 Mar; 40(3):497–502

A juvenile case of frontotemporal dementia: neurochemical and neuropathological investigations. Nagaoka S, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1251–61

Frontotemporal dementia and early Alzheimer disease: differentiation with frontal lobe H–1 MR spectroscopy. Ernst T, et al. **Radiology** 1997 Jun;203(3):829–36

Reversible MRI lesions after seizures. Aykut–Bingol C, et al. **Seizure** 1997 Jun;6(3):237–9

[Alzheimer disease: involvement of the complement system in cell death. Gene expression of C1q and C3 in the frontal cortex of patients with Alzheimer disease and control probands] Fischer B, et al. **Fortschr Med** 1996 May 10; 114(13):161–3 (Eng. Abstr.) **(Ger)**

[A case of atypical progressive supranuclear palsy with degeneration of the fronto–pontine tracts, and without grumose degeneration of the dentate nucleus] Inagaki T, et al. **No To Shinkei** 1996 Nov;48(11):1037–45 (Eng. Abstr.) **(Jpn)**

[A case of frontal gait apraxia caused by hypoxic encephalopathy] Nakamagoe K, et al. **No To Shinkei** 1997 May;49(5):455–9 (Eng. Abstr.) **(Jpn)**

[Relation between defect in comprehension and frontal lobe lesion] Otsuki M, et al. **No To Shinkei** 1996 Feb; 49(2):122–30 (Eng. Abstr.) **(Jpn)**

[Parkinson's syndrome as presentation form of left fronto–parietal meningioma. Letter] Higes F, et al. **Rev Neurol** 1996 Oct;24(134):1304 **(Spa)**

PHYSIOLOGY

An electrophysiological study of neurons in the horizontal limb of the diagonal band of Broca. Easaw JC, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C163–72

Cardiovascular responses to glutamate stimulation of diagonal band of Broca. Kirouac GJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H540–5

Disconnection of medial agranular and posterior parietal cortex produces multimodal neglect in rats. Burcham KJ, et al. **Behav Brain Res** 1997 Jun;86(1):41–7

Dissociable effects of AMPA–induced lesions of the vertical limb diagonal band of Broca on performance of the 5–choice serial reaction time task and on acquisition of a conditional visual discrimination. Muir JL, et al. **Behav Brain Res** 1996 Dec;82(1):31–44

Unilateral frontal cortex ablation producing neglect causes time–dependent changes in striatal glutamate receptors. Vargo JM, et al. **Behav Brain Res** 1996 May;77(1–2):189–99

Sex–related differences in cortical function after medial frontal lesions in rats. Kolb B, et al. **Behav Neurosci** 1996 Dec;110(6):1271–81

Lack of effects of lesions of the dorsal noradrenergic bundle on behavioral vigilance. McGaughy J, et al. **Behav Neurosci** 1997 Jun;111(3):646–52

Flavor and the frontal cortex. Schul R, et al. **Behav Neurosci** 1996 Aug;110(4):760–5

A comparison of temporal decay in place memory tasks in rats (Rattus norvegicus) with lesions affecting thalamus, frontal cortex, or the hippocampal system. Young HL, et al. **Behav Neurosci** 1996 Dec;110(6):1244–60

Event–related potential evidence for frontal cortex effects of chronic cocaine dependence. Biggins CA, et al. **Biol Psychiatry** 1997 Sep 15;42(6):472–85

Covariation of phasic cortical and cardiovascular responses in a detection task. van der Veen FM, et al. **Biol Psychol** 1996 Oct 31;44(2):105–20

Deficits of smooth pursuit eye movements after frontal and parietal lesions. Heide W, et al. **Brain** 1996 Dec;119 (Pt 6):1951–69

Inter–response interference contributes to the sequencing deficit in frontal lobe lesions. Lepage M, et al. **Brain** 1996 Aug;119 (Pt 4):1289–95

Double dissociations of memory and executive functions in working memory tasks following frontal lobe excisions, temporal lobe excisions or amygdalo–hippocampectomy in man. Owen AM, et al. **Brain** 1996 Oct;119 (Pt 5):1597–615

Thermosensitive neurons of the diagonal band in rats: relation to wakefulness and non–rapid eye movement sleep. Alam MN, et al. **Brain Res** 1997 Mar 28;752(1–2):81–9

The role of the frontal cortex in the mouse in behavioral sensitization to amphetamine. Karler R, et al. **Brain Res** 1997 May 23;757(2):228–35

The burst firing in the layer III and V pyramidal neurons of the cat sensorimotor cortex in vitro. Nishimura Y, et al. **Brain Res** 1996 Jul 15;727(1–2):212–6

Compensatory saccades made to remembered targets following orbital displacement by electrically stimulating the dorsomedial frontal cortex or frontal eye fields of primates. Tehovnik EJ, et al. **Brain Res** 1996 Jul 15; 727(1–2):221–4

The connections of the primate subthalamic nucleus: indirect pathways and the open–interconnected scheme of basal ganglia–thalamocortical circuitry. Joel D, et al. **Brain Res Brain Res Rev** 1997 Feb;23(1–2):62–78 (115 ref.)

Which brain regions are critically involved in the retrieval of old episodic memory? Markowitsch HJ. **Brain Res Brain Res Rev** 1995 Sep;21(2):117–27 (124 ref.)

Representation of object–centered space in the primate frontal lobe. Olson CR, et al. **Brain Res Cogn Brain Res** 1996 Dec;5(1–2):147–56 (32 ref.)

Studies on integrative functions of the human frontal association cortex with MEG. Sasaki K, et al. **Brain Res Cogn Brain Res** 1996 Dec;5(1–2):165–74

Innervation of the caudate nucleus, thalamus and red nucleus by the remaining sensorimotor cortex in cats with fetal or neonatal unilateral frontal cortex removal. Carlson–Kuhta P, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):234–46

Frontal behavioral inventory: diagnostic criteria for frontal lobe dementia. Kertesz A, et al. **Can J Neurol Sci** 1997 Feb;24(1):29–36

GABAergic cell subtypes and their synaptic connections in rat frontal cortex. Kawaguchi Y, et al. **Cereb Cortex** 1997 Sep;7(6):476–86

Bilateral activation of fronto–parietal networks by incrementing demand in a working memory task. Klingberg T, et al. **Cereb Cortex** 1997 Jul–Aug;7(5):465–71

Frontal midline theta rhythm in young healthy adults. Takahashi N, et al. **Clin Electroencephalogr** 1997 Jan; 28(1):49–54

Spatial working memory and strategy formation in patients with frontal lobe excisions. Miotto EC, et al. **Cortex** 1996 Dec;32(4):613–30

The frontal cortex–basal ganglia system in primates. Wise SP, et al. **Crit Rev Neurobiol** 1996;10(3–4):317–56 (443 ref.)

Crawling experience is related to changes in cortical organization during infancy: evidence from EEG coherence. Bell MA, et al. **Dev Psychobiol** 1996 Nov; 29(7):551–61

Statistical analysis of short–latency flash visual evoked cortical potentials with noncephalic reference. Shimoyama I, et al. **Doc Ophthalmol** 1995–96;91(4):363–70

Rapid–rate transcranial magnetic stimulation of human frontal cortex can evoke saccades under facilitating conditions. Li J, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jun; 105(3):246–54

Cortical networks for visual reaching: intrinsic frontal lobe connectivity. Johnson PB, et al. **Eur J Neurosci** 1996 Jul; 8(7):1358–62

The functional organization of working memory processes within human lateral frontal cortex: the contribution of functional neuroimaging. Owen AM. **Eur J Neurosci** 1997 Jul;9(7):1329–39 (73 ref.)

Intracellular recordings from medial septal neurons during hippocampal theta rhythm. Brazhnik ES, et al. **Exp Brain Res** 1997 May;114(3):442–53

Frontal gamma–band enhancement during multistable visual perception. Başar–Eroglu C, et al. **Int J Psychophysiol** 1996 Nov;24(1–2):113–25

Functional heterogeneity of the frontal lobe: evidence from intracranial memory ERPs. Guillem F, et al. **Int J Psychophysiol** 1996 Feb–Mar;21(2–3):107–19

Processing capacity and the frontal P3. Verbaten MN, et al. **Int J Psychophysiol** 1997 Apr;25(3):237–48

Normative data for two neuropsychological tests sensitive to frontal dysfunction. Pomati S, et al. **Ital J Neurol Sci** 1996 Jun;17(3):201–9

Behavioral activation sensitivity and resting frontal EEG asymmetry: covariation of putative indicators related to risk for mood disorders. Harmon–Jones E, et al. **J Abnorm Psychol** 1997 Feb;106(1):159–63

Patterns of regional brain activity differentiate types of anxiety. Heller W, et al. **J Abnorm Psychol** 1997 Aug; 106(3):376–85

Discriminability of the Wisconsin Card Sorting Test using the standardization sample. Axelrod BN, et al. **J Clin Exp Neuropsychol** 1996 Jun;18(3):338–42

Efferents from the lateral frontal cortex to spinomedullary target areas, trigeminal nuclei, and spinally projecting brainstem regions in the hedgehog tenrec. Künzle H, et al. **J Comp Neurol** 1996 Aug 12;372(1):88–110

Movement representation in the dorsal and ventral premotor areas of owl monkeys: a microstimulation study [published erratum appears in J Comp Neurol 1997 Jan 27;377(4):611] Preuss TM, et al. **J Comp Neurol** 1996 Aug 5;371(4):649–76

Suppression of task–related saccades by electrical stimulation in the primate's frontal eye field. Burman DD, et al. **J Neurophysiol** 1997 May;77(5):2252–67

Ablation of the pursuit area in the frontal cortex of the primate degrades foveal but not optokinetic smooth eye movements. Keating EG, et al. **J Neurophysiol** 1996 Jul; 76(1):637–41

Visually guided saccade versus eye–hand reach: contrasting neuronal activity in the cortical supplementary and frontal eye fields. Mushiake H, et al. **J Neurophysiol** 1996 May; 75(5):2187–91

Dissociation of saccade–related and pursuit–related activation in human frontal eye fields as revealed by fMRI. Petit L, et al. **J Neurophysiol** 1997 Jun;77(6):3386–90

Perceptual and motor processing stages identified in the activity of macaque frontal eye field neurons during visual search. Thompson KG, et al. **J Neurophysiol** 1996 Dec; 76(6):4040–55

Spatio–temporal firing patterns in the frontal cortex of behaving monkeys. Abeles M, et al. **J Physiol Paris** 1996; 90(3–4):249–50

Frontal–subcortical circuits: the anatomic basis of executive, social and motivated behaviors. Masterman DL, et al. **J Psychopharmacol (Oxf)** 1997;11(2):107–14 (60 ref.)

Magnetic motor evoked potentials in ponies. Mayhew IG, et al. **J Vet Intern Med** 1996 Sep–Oct;10(5):326–9

Distinct cortical areas associated with native and second languages. Kim KH, et al. **Nature** 1997 Jul 10; 388(6638):171–4

Effects of galanins pGAL1–29 and hGAL1–30 and their fragments on cholinergic neurons present in the nucleus of the vertical diagonal band. Farkas Z, et al. **Neurobiology (Bp)** 1996;4(1–2):105–7

Sigma 1 receptor subtype is involved in the facilitation of cortical dopaminergic transmission in the rat brain. Kobayashi T, et al. **Neurochem Res** 1997 Sep;22(9):1105–9

Functional MRI mapping of occipital and frontal cortical

activity during voluntary and imagined saccades. Bodis-Wollner I, et al. **Neurology** 1997 Aug;49(2):416–20

The Wisconsin Card Sorting Test and the assessment of frontal function: a validation study with event-related potentials. Barceló F, et al. **Neuropsychologia** 1997 Apr; 35(4):399–408

A fronto-parietal network for rapid visual information processing: a PET study of sustained attention and working memory. Coull JT, et al. **Neuropsychologia** 1996 Nov; 34(11):1085–95

Location and function of the human frontal eye-field: a selective review. Paus T. **Neuropsychologia** 1996 Jun; 34(6):475–83 (36 ref.)

Frontal lesions increase post-target interference in rapid stimulus streams. Richer F, et al. **Neuropsychologia** 1996 Jun;34(6):509–14

Recall of frequency of occurrence of self-generated and examiner-provided words after frontal or temporal lobectomy. Smith ML. **Neuropsychologia** 1996 Jun; 34(6):553–63

Correlation between frontal lobe functions and explicit and implicit stem completion in healthy elderly. Nyberg L, et al. **Neuropsychology** 1997 Jan;11(1):70–6

Memory dysfunction of the frontal type in normal ageing. Daum I, et al. **Neuroreport** 1996 Nov 4;7(15–17):2625–8

Contribution of frontostriatal function to sequence learning in Parkinson's disease: evidence for dissociable systems. Dominey PF, et al. **Neuroreport** 1997 Mar 24;8(5):iii–ix (48 ref.)

Electrophysiological brain activity and memory source monitoring. Johnson MK, et al. **Neuroreport** 1997 Mar 24; 8(5):1317–20

Functional heterogeneity of left inferior frontal cortex as revealed by fMRI. Paulesu E, et al. **Neuroreport** 1997 May 27;8(8):2011–7

The role of hippocampus and frontal cortex in age-related memory changes: a PET study. Schacter DL, et al. **Neuroreport** 1996 Apr 26;7(6):1165–9

Time organization of frontal-motor cortex interneuron interactions in the cat neocortex in conditions of different levels of food motivation. Merzhanova GKh, et al. **Neurosci Behav Physiol** 1997 Jul-Aug;27(4):360–6

Voltammetric detection of nitric oxide (NO) in the rat brain: its variations throughout the sleep-wake cycle. Burlet S, et al. **Neurosci Lett** 1997 Apr 25;226(2):131–5

Right frontal activation during the continuous performance test assessed with near-infrared spectroscopy in healthy subjects. Fallgatter AJ, et al. **Neurosci Lett** 1997 Feb 21; 223(2):89–92

Frontal interhemispheric asymmetry: self regulation and individual differences in humans. Hardman E, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):117–20

Cerebello-cerebral projections onto the ventral part of the frontal cortex of the macaque monkey. Kyuhou S, et al. **Neurosci Lett** 1997 Jul 18;230(2):101–4

Involvement of the frontal ventrolateral orbital cortex in descending inhibition of nociception mediated by the periaqueductal gray in rats. Zhang S, et al. **Neurosci Lett** 1997 Mar 14;224(2):142–6

Frontal mental theta wave recorded simultaneously with magnetoencephalography and electroencephalography. Sasaki K, et al. **Neurosci Res** 1996 Sep;26(1):79–81

Prostaglandin E receptor EP3 subtype is involved in thermal hyperalgesia through its actions in the preoptic hypothalamus and the diagonal band of Broca in rats. Hosoi M, et al. **Pain** 1997 Jul;71(3):303–11

Changes in alpha band EEG activity in the frontal area after stimulation with music of different affective content. Iwaki T, et al. **Percept Mot Skills** 1997 Apr;84(2):515–26

Working memory and executive control. Baddeley A, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Oct 29; 351(1346):1397–403; discussion 1403–4 (34 ref.)

Attention to action. Passingham RE. **Philos Trans R Soc Lond B Biol Sci** 1996 Oct 29; 351(1346):1473–9 (28 ref.)

Specialized systems for the processing of mnemonic information within the primate frontal cortex. Petrides M. **Philos Trans R Soc Lond B Biol Sci** 1996 Oct 29; 351(1346):1455–61; discussion 1461–2 (30 ref.)

Cholinergic stimulation alters performance and task-specific regional cerebral blood flow during working memory. Furey ML, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6512–6

Generating 'tiger' as an animal name or a word beginning with T: differences in brain activation [published erratum appears in Proc R Soc Lond B Biol Sci 1996 Dec 22;263(1377):1755–6] Mummery CJ, et al. **Proc R Soc Lond B Biol Sci** 1996 Aug 22;263(1373):989–95

Toward a theory of episodic memory: the frontal lobes and autonoetic consciousness. Wheeler MA, et al. **Psychol Bull** 1997 May;121(3):331–54 (155 ref.)

Neurons put the uncertainty into reaction times [news; comment] [see comments] Barinaga M. **Science** 1996 Oct 18;274(5286):344. Comment on: Science 1996 Oct 18;274(5286):427–30. Comment in: Science 1997 Jan 10;275(5297):142–3; discussion 144–5.

Neural control of voluntary movement initiation [see comments] Hanes DP, et al. **Science** 1996 Oct 18; 274(5286):427–30. Comment in: Science 1996 Oct 18;274(5286):344. Comment in: Science 1997 Jan 10;275(5297):142–3; discussion 144–5. Comment in: Science 1997 Jan 10;275(5297):143–4; discussion 144–5. Comment in: Science 1997 Jan 10;275(5297):144; discussion 144–5.

Neurons and reaction times [letter; comment] Lynch JC. **Science** 1997 Jan 10;275(5297):143–4; discussion 144–5. Comment on: Science 1996 Oct 18;274(5286):427–30.

Pain affect encoded in human anterior cingulate but not somatosensory cortex. Rainville P, et al. **Science** 1997 Aug 15;277(5328):968–71

[Frontal-subcortical neuronal circuits] Kischka U, et al. **Fortschr Neurol Psychiatr** 1997 May;65(5):221–31 (133 ref.) (Eng. Abstr.) **(Ger)**

[Functional MRI of higher brain function with gradient echo on clinical MR unit] Kikuchi K, et al. **Nippon Rinsho** 1997 Jul;55(7):1670–4 (Eng. Abstr.) **(Jpn)**

[Developmental characteristics of frontal spindle and centro-parietal spindle] Nagata K, et al. **No To Hattatsu** 1996 Sep;28(5):409–17 (Eng. Abstr.) **(Jpn)**

[The similarity and difference between dogs assessed by the indices of the summary electrical activity of the frontal cortex, hippocampus, amygdala and hypothalamus] Chilingarian LI, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec; 46(6):1018–31 (Eng. Abstr.) **(Rus)**

[The temporal organization of the interneuronal frontal-motor relations in the cat neocortex depending on the level of food motivation] Merzhanova GKh, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):513–20 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Frontal lobe-related cognitive functions in patients with sleep apnea syndrome before and after treatment. Feuerstein C, et al. **Acta Neurol Belg** 1997 Jun;97(2):96–107

Can absence status epilepticus be of frontal lobe origin? Kudo T, et al. **Acta Neurol Scand** 1995 Dec;92(6):472–7

Localization of language cortices by functional MR imaging compared with intracarotid amobarbital hemispheric sedation. Bahn MM, et al. **AJR Am J Roentgenol** 1997 Aug; 169(2):575–9

Olfactory bedside test. A simple approach to identify temporo-orbitofrontal dysfunction. Savic I, et al. **Arch Neurol** 1997 Feb;54(2):162–8

What have we learned from functional imaging studies in schizophrenia? The role of frontal, striatal and temporal areas. Velakoulis D, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):195–209 (111 ref.)

High-energy phosphate metabolism in the frontal lobes of patients with panic disorder detected by phase-encoded 31P-MRS. Shioiri T, et al. **Biol Psychiatry** 1996 Oct 15; 40(8):785–93

Frontocortical activity in children with comorbidity of tic disorder and attention-deficit hyperactivity disorder. Yordanova J, et al. **Biol Psychiatry** 1997 Mar 1;41(5):585–94

Acute frontal lobe syndrome and dyscontrol associated with bilateral caudate nucleus infarctions. Petty RG, et al. **Br J Psychiatry** 1996 Feb;168(2):237–240

Frontal lobe dysfunction in amyotrophic lateral sclerosis. A PET study. Abrahams S, et al. **Brain** 1996 Dec;119 (Pt 6):2105–20

The temporal variant of frontotemporal dementia. Edwards-Lee T, et al. **Brain** 1997 Jun;120 (Pt 6):1027–40

Deficits of smooth pursuit eye movements after frontal and parietal lesions. Heide W, et al. **Brain** 1996 Dec;119 (Pt 6):1951–69

Frontal tests do not detect frontal infarctions after ruptured intracranial aneurysm. Ahola K, et al. **Brain Cogn** 1996 Jun;31(1):1–16

Subcortical dementia: a neurobehavioral approach. Darvesh S, et al. **Brain Cogn** 1996 Jul;31(2):230–49 (134 ref.)

Role of the striatum, cerebellum, and frontal lobes in the learning of a visuomotor sequence. Doyon J, et al. **Brain Cogn** 1997 Jul;34(2):218–45

Confabulation, memory deficits, and frontal dysfunction. Johnson MK, et al. **Brain Cogn** 1997 Jul;34(2):189–206

Fronto-temporal dementia: nosology, neuropsychology, and neuropathology. Neary D, et al. **Brain Cogn** 1996 Jul; 31(2):176–87 (41 ref.)

Pathological false alarm rates following damage to the left frontal cortex. Parkin AJ, et al. **Brain Cogn** 1996 Oct; 32(1):14–27

Exploratory-motor task to evaluate right frontal lobe damage. Maeshima S, et al. **Brain Inj** 1997 Mar;11(3):211–7

Clinical insights into pragmatic theory: frontal lobe deficits and sarcasm. McDonald S, et al. **Brain Lang** 1996 Apr; 53(1):81–104

Study on FIRDA and 3 Hz rhythmic slow wave bursts occurring in the frontal area of epileptic patients. Kubota F, et al. **Clin Electroencephalogr** 1997 Apr;28(2):112–6

Attention-deficit hyperactivity disorder (ADHD) and frontal-motor cortex disconnection. Niedermeyer E, et al. **Clin Electroencephalogr** 1997 Jul;28(3):130–6 (53 ref.)

Violence in psychiatric patients: the role of psychosis, frontal lobe impairment, and ward turmoil. Krakowski M, et al. **Compr Psychiatry** 1997 Jul-Aug;38(4):230–6

Bizarre responses, rule detection and frontal lobe lesions. Burgess PW, et al. **Cortex** 1996 Jun;32(2):241–59

Alien hand syndrome: influence of neglect on the clinical presentation of frontal and callosal variants. Chan JL, et al. **Cortex** 1997 Jun;33(2):287–99

Functional imaging of the frontal lobes in organic dementia. Regional cerebral blood flow findings in normals, in patients with frontotemporal dementia and in patients with Alzheimer's disease, performing a word fluency test. Warkentin S, et al. **Dement Geriatr Cogn Disord** 1997 Mar-Apr;8(2):105–9

Infants of depressed and nondepressed mothers exhibit differences in frontal brain electrical activity during the expression of negative emotions. Dawson G, et al. **Dev Psychol** 1997 Jul;33(4):650–6

Abnormal subjective experiences in schizophrenia: its relationships with neuropsychological disturbances and frontal signs. Cuesta MJ, et al. **Eur Arch Psychiatry Clin Neurosci** 1996;246(2):101–5

Deficits in selective and sustained attention processes in early treated children with phenylketonuria—result of impaired frontal lobe functions? Weglage J, et al. **Eur J Pediatr** 1996 Mar;155(3):200–4

Cognitive dysfunction in patients with congenital hydrocephalus and spina bifida: evidence for a dysexecutive syndrome? Iddon JL, et al. **Eur J Pediatr Surg** 1996 Dec; 6 Suppl 1:41

Can frontotemporal dementia and Alzheimer's disease be differentiated using a brief battery of tests? Gregory CA, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):375–83

Parallel distributed processing and executive functioning: Tower of Hanoi neural networkmodel in healthy controls and left frontal lobe patients. Parks RW, et al. **Int J Neurosci** 1997 Feb;89(3–4):217–40

Selective bilateral lesion of the globus pallidus: ten-year follow-up of memory impairment and frontal symptomatology. Piccirilli M, et al. **Ital J Neurol Sci** 1995 Dec;16(9):635–40

Structural abnormalities in brain magnetic resonance images of depressed children. Steingard RJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Mar;35(3):307–11

"Senility" redefined as age-associated frontal system impairment? [letter; comment] Polk MS. **J Am Geriatr Soc** 1997 Mar;45(3):386–8. Comment on: J Am Geriatr Soc 1996 Jun;44(6):671–4.

Infants of depressed mothers exhibit atypical frontal brain activity: a replication and extension of previous findings. Dawson G, et al. **J Child Psychol Psychiatry** 1997 Feb; 38(2):179–86

Frontotemporal dementia: treatment response to serotonin selective reuptake inhibitors [published erratum appears in J Clin Psychiatry 1997 Jun;58(6):275] Swartz JR, et al. **J Clin Psychiatry** 1997 May;58(5):212–6

Antisocial personality disorder, childhood delinquency, and frontal brain functioning: EEG and neuropsychological findings. Deckel AW, et al. **J Clin Psychol** 1996 Nov; 52(6):639–50

Behavioral phenomenology in Alzheimer's disease, frontotemporal dementia, and late-life depression: a retrospective analysis. Swartz JR, et al. **J Geriatr Psychiatry Neurol** 1997 Apr;10(2):67–74

Quantitative EEG in frontal lobe dementia. Besthorn C, et al. **J Neural Transm Suppl** 1996;47:169–81

Clinical and pathological characteristics of primary progressive aphasia and frontal dementia. Kertesz A, et al. **J Neural Transm Suppl** 1996;47:133–41

Imitation and utilisation behaviour. De Renzi E, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):396–400

Effect of amantadine hydrochloride on symptoms of frontal lobe dysfunction in brain injury: case studies and review. Kraus MF, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring;9(2):222–30

Projective testing and lateralization [letter] Watt DF. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):232–4

Neuropsychological and neuroimaging evidence for the involvement of the frontal lobes in depression. Goodwin GM. **J Psychopharmacol (Oxf)** 1997;11(2):115–22 (85 ref.)

Enhanced artistic creativity with temporal lobe degeneration [letter] Miller BL, et al. **Lancet** 1996 Dec 21–28; 348(9043):1744–5

Association between the cannabinoid receptor gene (CNR1) and the P300 event-related potential. Johnson JP, et al. **Mol Psychiatry** 1997 Mar;2(2):169–71

Schizophrenia. The price of language? [news] Maddox J. **Nature** 1997 Jul 31;388(6641):424–5

Decline of frontal lobe functions in subjects with age-associated memory impairment. Hänninen T, et al. **Neurology** 1997 Jan;48(1):148–53 (71 ref.)

Frontotemporal dementia versus Alzheimer's disease: differential cognitive features. Mendez MF, et al. **Neurology** 1996 Nov;47(5):1189–94

Early frontal impairment as a predictor of dementia in Parkinson's disease [letter; comment] Piccirilli M, et al. **Neurology** 1997 Feb;48(2):546–7. Comment on: Neurology 1995 Sep;45(9):1691–6.

Apolipoprotein E gene and sporadic frontal lobe dementia. Stevens M, et al. **Neurology** 1997 Jun;48(6):1526–9

Cortical blood flow and negative symptoms in schizophrenia. Zemishlany Z, et al. **Neuropsychobiology** 1996;33(3):127–31

The selective breakdown of frontal functions in patients with obsessive-compulsive disorder and in patients with schizophrenia: a double dissociation experimental finding. Abbruzzese M, et al. **Neuropsychologia** 1997 Jun; 35(6):907–12

Impaired estimation of word occurrence frequency in frontal lobe patients. Angeles Jurado M, et al. **Neuropsychologia** 1997 May;35(5):635–41

Random number generation in dementia of the Alzheimer type: a test of frontal executive functions. Brugger P, et al. **Neuropsychologia** 1996 Feb;34(2):97–103

Cerebellar hypoplasia and frontal lobe cognitive deficits in disorders of early childhood. Ciesielski KT, et al. **Neuropsychologia** 1997 May;35(5):643–55

False recognition after a right frontal lobe infarction: memory for general and specific information. Curran T, et al. **Neuropsychologia** 1997 Jul;35(7):1035–49

The effect of Huntington's disease and Gilles de la Tourette's syndrome on the ability to hold and shift attention. Georgiou N, et al. **Neuropsychologia** 1996 Sep;34(9):843–51

Mental representation of knowledge following frontal-lobe or postrolandic lesions. Godbout L, et al. **Neuropsychologia** 1995 Dec;33(12):1671–96

Lateral and radial neglect as a function of spatial position: a case study. Halligan PW, et al. **Neuropsychologia** 1995 Dec;33(12):1697–702

Distractor-dependent frontal neglect. Husain M, et al. **Neuropsychologia** 1997 Jun;35(6):829–41

Mechanisms of unilateral spatial neglect in copying a single object. Ishiai S, et al. **Neuropsychologia** 1996 Oct; 34(10):965–71

The effect of goal-subgoal conflict on planning ability after frontal- and temporal-lobe lesions in humans. Morris RG, et al. **Neuropsychologia** 1997 Aug;35(8):1147–57

Strategic retrieval and the frontal lobes: evidence from confabulation and amnesia. Moscovitch M, et al. **Neuropsychologia** 1997 Jul;35(7):1017–34

Transient left-sided alien hand with callosal and unilateral fronto-mesial damage: a case study. Papagno C, et al. **Neuropsychologia** 1995 Dec;33(12):1703–9

Delayed response tasks in basal ganglia lesions in man: further evidence for a striato-frontal cooperation in behavioural adaptation. Partiot A, et al. **Neuropsychologia** 1996 Jul; 34(7):709–21

Sustained attention deficits in patients with right frontal lesions. Rueckert L, et al. **Neuropsychologia** 1996 Oct; 34(10):953–63

False recognition and the right frontal lobe: a case study. Schacter DL, et al. **Neuropsychologia** 1996 Aug; 34(8):793–808

Visual attention in Huntington's disease: the effect of cueing on saccade latencies and manual reaction times. Tsai TT, et al. **Neuropsychologia** 1995 Dec;33(12):1617–26

Patterns of oculomotor scanning in patients with unilateral posterior parietal or frontal lobe damage. Zihl J, et al. **Neuropsychologia** 1997 Jun;35(6):893–906

Dual-task performance in dysexecutive and nondysexecutive patients with a frontal lesion. Baddeley A, et al. **Neuropsychology** 1997 Apr;11(2):187–94

Strategic processing and memory for temporal order in patients with frontal lobe lesions. Mangels JA. **Neuropsychology** 1997 Apr;11(2):207–21

Extended brain disinhibition following small photothrombotic lesions in rat frontal cortex. Buchkremer-Ratzmann I, et al. **Neuroreport** 1997 Jan 20; 8(2):519–22

Frontal dysfunction blocks the therapeutic effect of THA on attention in Alzheimer's disease. Riekkinen P Jr, et al. **Neuroreport** 1997 May 27;8(8):1845–9

Functional magnetic resonance imaging mapping of the motor cortex in patients with cerebral tumors. Mueller WM, et al. **Neurosurgery** 1996 Sep;39(3):515–20; discussion 520–1

Medial frontal cortex lesions selectively attenuate the hot plate response: possible nocifensive apraxia in the rat. Pastoriza LN, et al. **Pain** 1996 Jan;64(1):11–7

Comparison of older people and patients with frontal lesions: evidence from world list learning. Stuss DT, et al. **Psychol Aging** 1996 Sep;11(3):387–95

The interaction between mood and cognitive function studied with PET. Baker SC, et al. **Psychol Med** 1997 May; 27(3):565–78

Prefrontal dysfunction in depressed patients performing a complex planning task: a study using positron emission tomography. Elliott R, et al. **Psychol Med** 1997 Jul; 27(4):931–42

Assessment of the dysexecutive syndrome in schizophrenia. Evans JJ, et al. **Psychol Med** 1997 May;27(3):635–46

Specific cognitive deficits in tests sensitive to frontal lobe dysfunction in obsessive-compulsive disorder. Veale DM, et al. **Psychol Med** 1996 Nov;26(6):1261–9

Relations of cognitive functions associated with the frontal lobes and learning disorders in children. Wolfe JN. **Psychol Rep** 1996 Aug;79(1):323–33

The alpha(2) antagonist idazoxan remediates certain attentional and executive dysfunction in patients with dementia of frontal type. Coull JT, et al. **Psychopharmacology (Berl)** 1996 Feb;123(3):239–49

Life events, frontal electroencephalogram laterality, and functional immune status after acute psychological stressors in adolescents. Liang SW, et al. **Psychosom Med** 1997 Mar-Apr;59(2):178–86

Neurological frontal signs and neuropsychological deficits in schizophrenic patients. Cuesta MJ, et al. **Schizophr Res** 1996 May;20(1–2):15–20

Initial schizophrenia-like' psychosis in Pick's disease: case study with neuroimaging and neuropathology, and implications for frontotemporal dysfunction in schizophrenia. Waddington JL, et al. **Schizophr Res** 1995 Dec;18(1):79–82

Supplementary motor area seizure resembling sleep disorder. Tachibana N, et al. **Sleep** 1996 Dec;19(10):811–6

[Frontal lobe cognition disorders in 42 schizophrenic patients compared with 19 normal probands] Jaquet I, et al. **Encephale** 1997 Jan-Feb;23(1):34–41 (Eng. Abstr.) **(Fre)**

[Cortical and thalamic regulating mechanisms of the pulse neuron activity of oblongata medulla respiration center of the rats in normal condition and during hypoxia] Akopian NS, et al. **Aviakosm Ekolog Med** 1996;30(1):36–42 (Eng. Abstr.) **(Rus)**

[Relation between frontal lobe blood flow and cognitive performance in Huntington's disease] Gómez-Tortosa E, et al. **Neurologia** 1996 Aug-Sep;11(7):251–6 (Eng. Abstr.) **(Spa)**

[Progressive degenerative aphasia: clinical and neuroradiological observations in 18 cases] Robles A, et al. **Rev Neurol** 1997 Apr;25(140):505–12 (18 ref.) (Eng. Abstr.) **(Spa)**

[Frontal dementia-motor neuron disease: a case report and literature review] Tamayo JA, et al. **Rev Neurol** 1996 Mar; 24(127):287–9 (13 ref.) (Eng. Abstr.) **(Spa)**

[Non-ketotic hyperglycinemia. Transient neonatal form] Vaquerizo J, et al. **Rev Neurol** 1996 Mar;24(127):293–5 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Cerebral radiation necrosis with accumulation of thallium 201 on single-photon emission CT. Yoshii Y, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1773–6

RADIOGRAPHY

Post-traumatic frontal lobe epilepsy with structural changes: excellent results after cortical resection. Cukiert A, et al. **Can J Neurol Sci** 1996 May;23(2):114–7

A flight of fantasy: false memories in frontal lobe disease [letter] De Villiers C, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):652–3

Transcortical mixed aphasia with left frontoparietal lesions. Maeshima S, et al. **Neuroradiology** 1996 May;38 Suppl 1:S78–9

RADIONUCLIDE IMAGING

Performance on neuropsychological tests related to single photon emission computerised tomography findings in frontotemporal dementia. Elfgren CI, et al. **Br J Psychiatry** 1996 Oct;169(4):416–22

Multiple foci in parietal and frontal cortex activated by rubbing embossed grating patterns across fingerpads: a positron emission tomography study in humans. Burton H, et al. **Cereb Cortex** 1997 Jan-Feb;7(1):3–17

Evidence for a two-stage model of spatial working memory processing within the lateral frontal cortex: a positron emission tomography study. Owen AM, et al. **Cereb Cortex** 1996 Jan-Feb;6(1):31–8

Intracranial malignant fibrous histiocytoma with increased uptake on Tl-201 imaging. Hayashi Y, et al. **Clin Nucl Med** 1996 Dec;21(12):1007

A case of thallium-201 accumulation by mucocele. Huguet M, et al. **Clin Nucl Med** 1996 Nov;21(11):909–10

Dementia of the frontal lobe type: report of the neuroimaging and neuropsychological results of a case study. Venneri A, et al. **Dementia** 1996 May-Jun;7(3):155–60

Frontal and parietal networks for conditional motor learning: a positron emission tomography study. Deiber MP, et al. **J Neurophysiol** 1997 Aug;78(2):977–91

Serotonin-2 and dopamine-1 binding components of clozapine in frontal cortex and striatum in the human brain visualized by positron emission tomography. Lundberg T, et al. **Psychiatry Res** 1996 May 31;67(1):1–10

Positron emission tomography in male violent offenders with schizophrenia. Wong MT, et al. **Psychiatry Res** 1997 Feb 7;68(2-3):111–23

[Cerebral SPECT with thallium-201 in the differential diagnosis of focal cerebral lesions in patients with AIDS] Sanjaume M, et al. **Enferm Infecc Microbiol Clin** 1997 Jan; 15(1):28–31 (Eng. Abstr.) **(Spa)**

SECRETION

Detection of basal acetylcholine release in the microdialysis of rat frontal cortex by high-performance liquid chromatography using a horseradish peroxidase-osmium redox polymer electrode with pre-enzyme reactor. Kato T, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28; 682(1):162–6

SURGERY

Neurenteric cyst of the anterior cranial fossa [see comments] Bavetta S, et al. **Br J Neurosurg** 1996 Apr;10(2):225–7 (24 ref.). Comment in: Br J Neurosurg 1996 Oct;10(5):526–7.

Surgery for intractable epilepsy secondary to viral encephalitis. Davies KG, et al. **Br J Neurosurg** 1995; 9(6):759–62

Thymus graft reverses morphological deficits in dorsolateral frontal cortex of congenitally athymic nude mice. Gaufo GO, et al. **Brain Res** 1997 May 9;756(1-2):191–9

Spatial working memory and strategy formation in patients with frontal lobe excisions. Miotto EC, et al. **Cortex** 1996 Dec;32(4):613–30

Resection of frontal encephalomalacias for intractable epilepsy: outcome and prognostic factors. Kazemi NJ, et al. **Epilepsia** 1997 Jun;38(6):670–7

Neurogenic bladder may be a side effect of focus resection in an epileptic patient. Sekido N, et al. **Int J Urol** 1997 Jan;4(1):101–3

Intrathecal morphine for postoperative analgesia following repair of frontal encephaloceles in children: comparison with intermittent, on-demand dosing of nalbuphine. Tobias JD, et al. **J Clin Anesth** 1997 Jun;9(4):280–4

Surgical treatment of glial tumours of genus corpus callosum and medial parts of frontal lobes. Kachkov IA, et al. **J Neurosurg Sci** 1997 Mar;41(1):113–5

The frontal lobes and neurosurgery for psychiatric disorders. Malizia AL. **J Psychopharmacol (Oxf)** 1997;11(2):179–87 (100 ref.)

Glabellar approach: simplified midline anterior skull base approach. Jho HD, et al. **Minim Invasive Neurosurg** 1997 Jun;40(2):62–7

Microsurgical interhemispheric approach to dural arteriovenous fistulas of the floor of the anterior cranial fossa. Mayfrank L, et al. **Minim Invasive Neurosurg** 1996 Sep;39(3):74–7

Visuo-motor conditional associative learning after frontal and temporal lesions in the human brain. Petrides M. **Neuropsychologia** 1997 Jul;35(7):989–97

Effects of lesions invading the postcentral gyrus on somatosensory thresholds on the face. Taylor L, et al. **Neuropsychologia** 1997 Jul;35(7):953–61

Effect of dexamethasone, barbiturate and hypothermy on edema induced by CO2 laser brain lesion in the dog: light and electron microscopic study. Göçer AI, et al. **Neurosurg Rev** 1996;19(1):33–8

Intracranial schwannoma presenting as a subfrontal tumor: case report. Huang PP, et al. **Neurosurgery** 1997 Jan; 40(1):194–7

[Surgical aspects of frontal lobe tumors] Vizioli L, et al. **Minerva Chir** 1997 Jun;52(6):811–6 (Eng. Abstr.) **(Ita)**

[Transient mutism after resection of left frontal lobe astrocytoma in adult: case report] Kunishio K, et al. **No Shinkei Geka** 1997 Jan;25(1):61–5 (Eng. Abstr.) **(Jpn)**

[Memory disorders in epileptic patients. A study of pre-postsurgical follow-up] Martín-Plasencia P, et al. **Rev Neurol** 1997 Feb;25(138):205–7 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Development of projections from transplants of embryonic medial or lateral frontal cortex placed in the lateral frontal cortex of newborn hosts. Garnier C, et al. **Neurosci Lett** 1996 Jul 26;213(1):33–6

ULTRASONOGRAPHY

Correlation of fetal frontal lobe and transcerebellar diameter measurements: the utility of a new prenatal sonographic technique. Persutte WH, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):94–7

ULTRASTRUCTURE

Ubiquitin-related cytoskeletal abnormality in frontotemporal dementia: immunohistochemical and immunoelectron microscope studies. Kinoshita A, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):67–72

VIROLOGY

Decreased absolute levels of ascorbic acid and unaltered vasoactive intestinal polypeptide receptor binding in the frontal cortex in acquired immunodeficiency syndrome. Everall IP, et al. **Neurosci Lett** 1997 Mar 14;224(2):119–22

FRONTAL SINUS

Treatment of frontal sinus osteoma using a craniofacial approach. Chang SC, et al. **Ann Plast Surg** 1997 May; 38(5):455–9

Fronto-ethmoid osteoma: the place of surgery. Hehar SS, et al. **J Laryngol Otol** 1997 Apr;111(4):372–5 (18 ref.)

Isolated third-nerve palsy associated with frontal sinus mucocele [letter; comment] Legge RH. **J Neuroophthalmol** 1996 Sep;16(3):231–2. Comment on: J Neuroophthalmol 1995 Jun;15(2):105–8.

Fibrous dysplasia presenting with pneumocephaly. Murphy DP, et al. **N J Med** 1996 Nov;93(11):33–6

[Frontal mucoceles of orbital or cerebral extension: therapeutic strategy] Périé S, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(7-8):384–91 (Eng. Abstr.) **(Fre)**

[Asymptomatic osteoma of the frontal sinus with intracranial invasion as a cause of post-traumatic pneumocephalus] Dobrotin VE, et al. **Vestn Otorinolaringol** 1996 May-Jun; (3):31–2 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

[A case of congenital unilateral absence of maxillary and frontal sinuses] Rydzewski B, et al. **Otolaryngol Pol** 1996; 50(4):445–50 (Eng. Abstr.) **(Pol)**

ANATOMY & HISTOLOGY

E12 technique: an aid to study sinuses of psittacine birds. Henry RW, et al. **Acta Anat (Basel)** 1997;158(1):54–8

Frontal sinus outflow anatomy. Lee D, et al. **Am J Rhinol** 1997 Jul-Aug;11(4):283–5

GROWTH & DEVELOPMENT

Can frontal sinus development be used for the prediction of skeletal maturity at puberty? Ruf S, et al. **Acta Odontol Scand** 1996 Aug;54(4):229–34

Frontal sinus development as an indicator for somatic maturity at puberty? Ruf S, et al. **Am J Orthod Dentofacial Orthop** 1996 Nov;110(5):476–82

Development of the frontal sinus in relation to somatic and skeletal maturity. A cephalometric roentgenographic study at puberty. Ruf S, et al. **Eur J Orthod** 1996 Oct;18(5):491–7

INJURIES

Frontal sinus fractures. Ginsburg CM. **Pediatr Rev** 1997 Apr; 18(4):120–1

[Primary unrecognized gunshot wound in the frontal skull base] Keller A, et al. **Laryngorhinootologie** 1996 Dec; 75(12):772–4 (Eng. Abstr.) **(Ger)**

[Bicoronal approach in the management of frontal sinus fractures] De Ponte FS, et al. **Minerva Stomatol** 1995 Nov; 44(11):507–14 (Eng. Abstr.) **(Ita)**

PATHOLOGY

The growth rate of osteomas of the paranasal sinuses. Koivunen P, et al. **Clin Otolaryngol** 1997 Apr;22(2):111–4

Arachnoid cysts and pneumosinus dilatans. Sener RN. **Comput Med Imaging Graph** 1997 Mar–Apr;21(2):125–9

Aqueductal stenosis leading to herniation of the frontal horn of the lateral ventricle into the frontal sinus. Holodny AI, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):837–9

Frontal sinus cephalocele associated with hydrocephalus. Mewborne JD, et al. **J Comput Assist Tomogr** 1997 Sep–Oct;21(5):840–1

McCune–Albright syndrome (polyostotic fibrous dysplasia) with intracranial frontoethmoid mucocele. Furin MM, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):559–62

[Malignant transformation of a peripheral nerve sheath tumor in the area of the paranasal sinuses] Kautzky M, et al. **Laryngorhinootologie** 1996 Nov;75(11):691–6 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Identification by frontal sinus pattern in forensic anthropology. Quatrehomme G, et al. **Forensic Sci Int** 1996 Dec 2;83(2):147–53 (24 ref.)

Malignant melanoma arising in the frontal sinuses. Jayaraj SM, et al. **J Laryngol Otol** 1997 Apr;111(4):376–8

Glass in the frontal sinus: report of three cases. Onerci M, et al. **J Laryngol Otol** 1997 Feb;111(2):156–8 (3 ref.)

Supraorbital ethmoid cell. Owen RG Jr, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):254–61

Computerised tomography evaluation of the frontal recess in inflammatory diseases of the frontal sinus: standardisation of a new technique. Meloni F, et al. **Rhinology** 1997 Mar; 35(1):28–32

RADIONUCLIDE IMAGING

Frontal sinus mucocele mimicking a metastasis of papillary thyroid carcinoma. Matheja P, et al. **J Nucl Med** 1997 Jul; 38(7):1022–4

SURGERY

Life threatening intracranial complications of frontal sinus osteomas: report of two cases. Brunori A, et al. **Acta Neurochir (Wien)** 1996;138(12):1426–30

Operative treatment of frontal sinusitis. Suonpää J, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:181–3

Report on results of frontal sinus obliterations in Turku University Central Hospital 1977–1994. Wide K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:184–6

Follow-up of University of Virginia experience with the modified Lothrop procedure. Gross CW, et al. **Am J Rhinol** 1997 Jan–Feb;11(1):49–54

Endonasal frontal sinusotomy in surgical management of chronic sinusitis: a critical evaluation. Hosemann W, et al. **Am J Rhinol** 1997 Jan–Feb;11(1):1–9

A combined reverse temporalis muscle flap and pericranial flap for reconstruction of an anterior cranial base defect: a case report. Atabey A, et al. **Ann Plast Surg** 1997 Aug; 39(2):190–2

Endoscopic sinus surgery for the treatment of frontoethmoidal mucocele complicated with orbital abscess: a case report. Chen TM, et al. **Chang Keng I Hsueh** 1997 Mar;20(1):39–43

Bone replacement by ionomer cement in osteoplastic frontal sinus operations. Weber A, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S162–4

Fronto-ethmoidal and orbital osteomas with intracranial extension. Report of two cases. Maiuri F, et al. **J Neurosurg Sci** 1996 Mar;40(1):65–70 (24 ref.)

Computer-assisted surgery in the frontal and maxillary sinus. Gunkel AR, et al. **Laryngoscope** 1997 May;107(5):631–3

Management of embossment following the frontal osteoplastic operation. Lawson W, et al. **Laryngoscope** 1996 Oct;106(10):1259–65

Current concepts in the surgical management of chronic frontal sinusitis. Nguyen QA, et al. **Otolaryngol Clin North Am** 1997 Jun;30(3):355–70 (80 ref.)

Supraorbital ethmoid cell. Owen RG Jr, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):254–61

Minimal access surgery of the frontonasal duct through a simultaneous transfrontal and intranasal approach. Wright E, et al. **Otolaryngol Head Neck Surg** 1997 Jul; 117(1):127–30

Combined endonasal and percutaneous endoscopic approach to Pott's puffy tumour. el-Silimy O. **Rhinology** 1996 Jun; 34(2):119–22

[Osteoplastic surgery of the frontal sinus: indications, procedures and results apropos of 75 cases] Weber R, et al. **Rev Laryngol Otol Rhinol (Bord)** 1997;118(2):91–4 (Eng. Abstr.) **(Fre)**

[Pneumosinus dilatans frontalis. Etiology, symptoms and surgical technique] Draf W, et al. **Laryngorhinootologie** 1996 Nov;75(11):660–4 (Eng. Abstr.) **(Ger)**

[Endonasal, microscopically controlled frontal sinus surgery] Simmen D. **Laryngorhinootologie** 1997 Mar;76(3):131–6 (Eng. Abstr.) **(Ger)**

[Extended trepanopuncture of the frontal sinuses (therapeutic and diagnostic opportunities)] Akopyan RG, et al. **Vestn Otorinolaringol** 1997;(4):42–3 (Eng. Abstr.) **(Rus)**

[20-year experience in obliteration of the frontal sinuses with formalinized allobrephobone in chronic frontal sinusitis] Chufistov ME, et al. **Vestn Otorinolaringol** 1997;(2):41–3 (Eng. Abstr.) **(Rus)**

[Endoprosthesis of the frontonasal anastomosis after extranasal radical operations using biocompatible tubular polymeric materials] Klochikhin AL, et al. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):18–9 (Eng. Abstr.) **(Rus)**

[The use of a polyphosphazene prosthesis for the frontonasal anastomosis in the surgical treatment of acute and chronic inflammatory diseases of the frontal sinus (a preliminary report)] Lapchenko AS, et al. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):43 (Eng. Abstr.) **(Rus)**

FRONTAL SINUSITIS

COMPLICATIONS

Intraorbital subperiosteal hematoma due to paranasal mucocele—case report. Aoki H, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):627–9

Combined endonasal and percutaneous endoscopic approach to Pott's puffy tumour. el-Silimy O. **Rhinology** 1996 Jun; 34(2):119–22

DIAGNOSIS

The value of computerised rhinomanometry and a simple manometry with saline in predicting the outcome of patients with acute trephined frontal sinusitis. Wide K, et al. **Rhinology** 1996 Sep;34(3):151–5

MICROBIOLOGY

Bacteriological evaluation of 194 adult patients with acute frontal sinusitis and findings of simultaneous maxillary sinusitis. Antila J, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:162–4

[Sinusitis caused by Mycobacterium avium–M. intracellulare in a patient with HIV infection (letter)] Cibrián F, et al. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):401–2 **(Spa)**

RADIOGRAPHY

Comparison of A-mode ultrasound and computed tomography: detection of secretion in maxillary and frontal sinuses in ventilated patients. Lucchin F, et al. **Intensive Care Med** 1996 Nov;22(11):1265–8

Supraorbital ethmoid cell. Owen RG Jr, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):254–61

Computerised tomography evaluation of the frontal recess in inflammatory diseases of the frontal sinus: standardisation of a new technique. Meloni F, et al. **Rhinology** 1997 Mar; 35(1):28–32

SURGERY

Operative treatment of frontal sinusitis. Suonpää J, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:181–3

Report on results of frontal sinus obliterations in Turku University Central Hospital 1977–1994. Wide K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:184–6

Endonasal frontal sinusotomy in surgical management of chronic sinusitis: a critical evaluation. Hosemann W, et al. **Am J Rhinol** 1997 Jan–Feb;11(1):1–9

Complications of frontal sinusitis in adolescents: case presentations and treatment options. Altman KW, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jul 18;41(1):9–20

Combined approach intranasal endoscopic and external Lothrop procedure in chronic frontal sinus disease. Sharp HR, et al. **J Laryngol Otol** 1997 Jul;111(7):635–7

Image-guided endoscopic surgery: results of accuracy and performance in a multicenter clinical study using an electromagnetic tracking system. Fried MP, et al. **Laryngoscope** 1997 May;107(5):594–601

Frontal sinus surgery in children. Talbot AR. **Otolaryngol Clin North Am** 1996 Feb;29(1):143–58 (36 ref.)

Supraorbital ethmoid cell. Owen RG Jr, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):254–61

Combined endonasal and percutaneous endoscopic approach to Pott's puffy tumour. el-Silimy O. **Rhinology** 1996 Jun; 34(2):119–22

The value of computerised rhinomanometry and a simple manometry with saline in predicting the outcome of patients with acute trephined frontal sinusitis. Wide K, et al. **Rhinology** 1996 Sep;34(3):151–5

[Long-term results of endonasal frontal sinus surgery] Weber R, et al. **HNO** 1996 Sep;44(9):503–9 (Eng. Abstr.) **(Ger)**

[20-year experience in obliteration of the frontal sinuses with formalinized allobrephobone in chronic frontal sinusitis] Chufistov ME, et al. **Vestn Otorinolaringol** 1997;(2):41–3 (Eng. Abstr.) **(Rus)**

[Critical assessment of external surgery of frontal sinuses with shunting] Derepa VK. **Vestn Otorinolaringol** 1997;(2):47 (3 ref.) **(Rus)**

[The use of a polyphosphazene prosthesis for the frontonasal anastomosis in the surgical treatment of acute and chronic inflammatory diseases of the frontal sinus (a preliminary report)] Lapchenko AS, et al. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):43 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Comparison of A-mode ultrasound and computed tomography: detection of secretion in maxillary and frontal sinuses in ventilated patients. Lucchin F, et al. **Intensive Care Med** 1996 Nov;22(11):1265–8

VETERINARY

Ultrasound/computed tomography diagnosis—fungal sinusitis and retrobulbar myofascitis in a cat. Halenda RM, et al. **Vet Radiol Ultrasound** 1997 May–Jun;38(3):208–10

FROSTBITE

CHEMICALLY INDUCED

Life-threatening airway obstruction from nitrous oxide induced frostbite of the oral cavity. Svartling N, et al. **Anaesth Intensive Care** 1996 Dec;24(6):717–20

COMPLICATIONS

Is urban frostbite a psychiatric disorder? Pinzur MS, et al. **Orthopedics** 1997 Jan;20(1):43–5

DIAGNOSIS

Magnetic resonance imaging of severe frostbite injuries. Barker JR, et al. **Ann Plast Surg** 1997 Mar;38(3):275–9

ETIOLOGY

Coffee, tea, or frostbite? A case report of inflight freezing hazard from dry ice. Gamble WB, et al. **Aviat Space Environ Med** 1996 Sep;67(9):880–1

SURGERY

[Restoration of grip function in both hands after frostbite of all fingers and toes. A case report] Hofmann AK, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):50–4 (Eng. Abstr.) **(Ger)**

[Acute trauma to the external ear. Treatment of chemical burns, freezing, burns and acute avulsions of the external ear] Weerda H. **HNO** 1996 Dec;44(12):701–9 **(Ger)**

THERAPY

American College of Sports Medicine position stand. Heat and cold illnesses during distance running. Armstrong LE, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):i–x (97 ref.)

[A rare case of extensive frostbite with soft tissue freezing] Paramonov BA, et al. **Vestn Khir Im I I Grek** 1996;(1):94 **(Rus)**

FROZEN FOODS

The beefburger injury: a retrospective survey. Jigjinni VS, et al. **BMJ** 1997 Sep 6;315(7108):580

MICROBIOLOGY

[Efficiency of Rappaport–Vassiliadis semi-solid agar in the isolation of Salmonella from frozen foods of animal origin] De Medici D, et al. **Ann Ig** 1997 May–Jun;9(3):215–9 **(Ita)**

[Isolation of Vibrio cholerae in imported frozen seafood and their cholera-enterotoxin production] Shiraishi S, et al. **Kansenshogaku Zasshi** 1996 Feb;70(2):175–9 (Eng. Abstr.) **(Jpn)**

STANDARDS

Effect of vitamin A on the oxidative stability of broiler meat during storage: lack of interactions with vitamin E. Bartov I, et al. **Br Poult Sci** 1997 Jul;38(3):255–7

The effect of refrigerated and frozen storage on populations of mesophilic and coliform bacteria on fresh broiler chicken carcasses. Russell SM. **Poult Sci** 1995 Dec;74(12):2057–60

Effect of dietary vitamin E on the oxidative stability, flavor, color, and volatile profiles of refrigerated and frozen turkey breast meat. Sheldon BW, et al. **Poult Sci** 1997 Apr; 76(4):634–41

FROZEN SECTIONS

Thyroid nodules. Role of fine needle aspiration and intraoperative frozen section examination.

FROZEN SECTIONS

Aguilar-Diosdado M, et al. **Acta Cytol** 1997 May-Jun; 41(3):677-82

Our experience with the enhanced polymer one-step staining in frozen sections. Rott T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:114-5

Frozen sections and breast biopsies [letter; comment] Givelber HM. **Am J Clin Pathol** 1997 Apr;107(4):493. Comment on: Am J Clin Pathol 1996 Aug;106(2):225-8.

Frozen sections and breast biopsies [letter; comment] Wightman HR. **Am J Clin Pathol** 1997 Apr;107(4):493. Comment on: Am J Clin Pathol 1996 Aug;106(2):225-8.

Efficacy of frozen-section evaluation of uterine curettings in the diagnosis of ectopic pregnancy. Spandorfer SD, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):603-5

Frozen section--guided surgical debridement for management of rhino-orbital mucormycosis. Langford JD, et al. **Am J Ophthalmol** 1997 Aug;124(2):265-7

The utility of routine frozen section examination for intraoperative diagnosis of thyroid cancer. McHenry CR, et al. **Am J Surg** 1996 Dec;172(6):658-61

Frozen section for mammographically directed breast biopsies [letter; comment] Frankel KA. **Am J Surg Pathol** 1996 Dec;20(12):1531-2. Comment on: Am J Surg Pathol 1995 Nov;19(11):1267-71.

Frozen section for mammographically directed breast biopsies [letter] Hoda SA. **Am J Surg Pathol** 1996 Dec; 20(12):1532

Frozen section evaluation of stereotactic brain biopsies: diagnostic yield at the stereotactic target position in 188 cases. Brainard JA, et al. **Arch Pathol Lab Med** 1997 May; 121(5):481-4

Follicular and Hürthle cell thyroid neoplasms. Is frozen-section evaluation worthwhile? Paphavasit A, et al. **Arch Surg** 1997 Jun;132(6):674-8; discussion 678-80

Pre and intraoperative diagnosis of ovarian tumours: how accurate are we? Lim FK, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):223-7

RNA from air-dried frozen sections for RT-PCR and differential display. Castles CG, et al. **Biotechniques** 1996 Sep;21(3):425-8

Microdissection RT-PCR analysis of gene expression in pathologically defined frozen tissue sections. Hiller T, et al. **Biotechniques** 1996 Jul;21(1):38-40, 42, 44

Static image analysis of skin specimens: the application of telepathology to frozen section evaluation. Weinstein LJ, et al. **Hum Pathol** 1997 Jan;28(1):30-5

The role of intraoperative frozen sections in revision total joint arthroplasty [letter] Athanasou NA, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1433-4

The reliability of analysis of intraoperative frozen sections for identifying active infection during revision hip or knee arthroplasty. Lonner JH, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1553-8

A simple enzyme histochemical method for the simultaneous demonstration of acetylcholinesterase and monoamine oxidase in fixed-frozen sections. Dunning DD, et al. **J Histochem Cytochem** 1997 Jun;45(6):895-902

Accuracy of frozen sections in assessing margins in oral cancer resection. Ord RA, et al. **J Oral Maxillofac Surg** 1997 Jul;55(7):663-9; discussion 669-71

The accuracy of clinical examination versus frozen section in the diagnosis of parotid masses. Zheng JW, et al. **J Oral Maxillofac Surg** 1997 Jan;55(1):29-31; discussion 32

Reliability of frozen section diagnosis of gallbladder tumor for detecting carcinoma and depth of its invasion. Yamaguchi K, et al. **J Surg Oncol** 1997 Jun;65(2):132-6

PRINS DNA synthesis on frozen tissue sections. Speel EJ, et al. **Methods Mol Biol** 1997;71:31-7 (13 ref.)

Shrinking processes in frozen sections. Dörr W, et al. **Microsc Res Tech** 1997 Jun 1-15;37(5-6):598-9

Isoelectric focusing of crystallins in microsections of calf and adult bovine lens. Identification of water-insoluble crystallins complexing under nondenaturing conditions: demonstration of chaperone activity of alpha-crystallin. Babizhayev MA, et al. **Ophthalmic Res** 1996;28(6):365-74

Frozen-section services by telepathology: experience of 100 cases in the San-in District, Japan. Adachi H, et al. **Pathol Int** 1996 Jun;46(6):436-41

Comparison of oestrogen receptor assessment in frozen and paraffin sections. Fee M, et al. **Pathol Res Pract** 1996 Sep; 192(9):919-24

Intraoperative diagnostic techniques for stereotactic brain biopsy: cytology versus frozen-section histopathology. Hayden R, et al. **Stereotact Funct Neurosurg** 1995; 65(1-4):187-93

[Extemporaneous anatomo-pathological test in surgery of thyroid cancers. Values and limitations] Godey B, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(4):219-24 (13 ref.) (Eng. Abstr.) **(Fre)**

[Intraoperative diagnostic frozen section of the thyroid gland] Schmid KW, et al. **Pathologe** 1997 Jan;18(1):98-101 **(Ger)**

[Frozen section diagnosis using telepathology] Steffen B, et al. **Swiss Surg** 1997;3(1):25-9 (Eng. Abstr.) **(Ger)**

[Intraoperative histological study of nonpalpable lesions of the breast] Bianchi S, et al. **Chir Ital** 1995;47(4):9-14 (Eng. Abstr.) **(Ita)**

[Measurement of aspecific alkaline phosphatase in the intraoperative histological examination of the breast] Vigliani R, et al. **Pathologica** 1997 Feb;89(1):44-53 (Eng. Abstr.) **(Ita)**

[Comparative analysis of agreement between cytologic diagnosis by examination of tissue imprints and pathohistologic findings in intraoperative breast biopsy] Bokun R, et al. **Vojnosanit Pregl** 1997 Jan-Feb;54(1):27-30 (Eng. Abstr.) **(Scr)**

METHODS

Breast frozen sections [letter; comment] Fechner RE. **Am J Surg Pathol** 1996 Oct;20(10):1296. Comment on: Am J Surg Pathol 1995 Nov;19(11):1267-71.

Rotation cryotomy: medical and scientific value of a new serial sectioning procedure. Kathrein A, et al. **Clin Anat** 1996;9(4):227-31

Broadsheet number 41: frozen section and intra-operative diagnosis. Challis D. **Pathology** 1997 May;29(2):165-74

STANDARDS

Interinstitutional comparison of frozen section consultations. A college of American Pathologists Q-Probes study of 90,538 cases in 461 institutions. Gephardt GN, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):804-9

Fine-needle aspiration biopsy of parotid lesions: comparison with frozen section. Tew S, et al. **Aust N Z J Surg** 1997 Jul;67(7):438-41

[Quality control of intraoperative diagnosis] Pirini MG, et al. **Pathologica** 1996 Feb;88(1):29-35 (Eng. Abstr.) **(Ita)**

STATISTICS & NUMERICAL DATA

Interinstitutional comparison of frozen section turnaround time. A College of American Pathologists Q-Probes study of 32868 frozen sections in 700 hospitals. Novis DA, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):559-67

TRENDS

Intraoperative consultation: introduction and general principles. Ranchod M. **Pathology (Phila)** 1996;3(2):259-71 (7 ref.)

Technical aspects of intraoperative diagnosis. Ranchod M. **Pathology (Phila)** 1996;3(2):273-84 (4 ref.)

FROZEN SEMEN see **SEMEN PRESERVATION**

FRUCTANS

ANALYSIS

Analysis of fructans from higher plants by matrix-assisted laser desorption/ionization mass spectrometry. Stahl B, et al. **Anal Biochem** 1997 Mar 15;246(2):195-204

BIOSYNTHESIS

Production of levan, a fructose polymer, using an overexpressed recombinant levansucrase. Song KB, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:601-7

Fructan synthesis in transgenic tobacco and chicory plants expressing barley sucrose: fructan 6-fructosyltransferase. Sprenger N, et al. **FEBS Lett** 1997 Jan 6;400(3):355-8

Fructan of the inulin neoseries is synthesized in transgenic chicory plants (Cichorium intybus L.) harbouring onion (Allium cepa L.) fructan:fructan 6G-fructosyltransferase. Vijn I, et al. **Plant J** 1997 Mar;11(3):387-98

IMMUNOLOGY

Avidity maturation, repertoire shift, and strain differences in antibodies to bacterial levan, a type 2 thymus-independent polysaccharide antigen. Boswell CM, et al. **J Immunol** 1996 Sep 1;157(5):1996-2005

V lambda-light chain genes reconstitute immune responses to defined carbohydrate antigens or haptens by utilizing different VH genes. Bot A, et al. **Mol Immunol** 1996 Dec; 33(17-18):1359-68

METABOLISM

Cariogenicity of Streptococcus mutans strains with defects in fructan metabolism assessed in a program-fed specific-pathogen-free rat model. Burne RA, et al. **J Dent Res** 1996 Aug;75(8):1572-7

FRUCTOKINASES

ANTAGONISTS & INHIBITORS

Protection of astrocytes by fructose 1,6-bisphosphate and citrate ameliorates neuronal injury under hypoxic conditions. Kelleher JA, et al. **Brain Res** 1996 Jul 8; 726(1-2):167-73

BIOSYNTHESIS

Divergent fructokinase genes are differentially expressed in tomato. Kanayama Y, et al. **Plant Physiol** 1997 Apr; 113(4):1379-84

CHEMISTRY

A new enzymatic method for the determination of inulin [letter; comment] Soper CP, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):265. Comment on: Ann Clin Biochem 1995 Nov;32(Pt 6):561-5.

GENETICS

Molecular genetics of the human glucokinase regulator-fructokinase (GCKR-KHK) region of chromosome 2p23. Hayward BE, et al. **Biochem Soc Trans** 1997 Feb;25(1):140-5

Co-localization of the ketohexokinase and glucokinase regulator genes to a 500-kb region of chromosome 2p23. Hayward BE, et al. **Mamm Genome** 1996 Jun;7(6):454-8

The genes encoding glucokinase regulatory protein and ketohexokinase co-localize to mouse chromosome 5. Wightman PJ, et al. **Mamm Genome** 1997 Sep;8(9):700-1

The fructokinase from Rhizobium leguminosarum biovar trifolii belongs to group I fructokinase enzymes and is encoded separately from other carbohydrate metabolism enzymes. Fennington GJ Jr, et al. **Microbiology** 1996 Feb; 142 (Pt 2):321-30

METABOLISM

Studies on fructose metabolism in cultured astroglial cells and control hepatocytes: lack of fructokinase activity and immunoreactivity in astrocytes. Bergbauer K, et al. **Dev Neurosci** 1996;18(5-6):371-9

Overexpression, purification, and generation of a thermostable variant of Zymomonas mobilis fructokinase. King K, et al. **Protein Expr Purif** 1996 Jun;7(4):373-6

FRUCTOSAMINE

BLOOD

Treatment of diabetes mellitus in dogs using isophane insulin penfills and the use of serum fructosamine assays to diagnose and monitor the disease. Thoresen SI, et al. **Acta Vet Scand** 1997;38(2):137-46

Glycated proteins as indices of glycaemic control in diabetic patients with chronic renal failure. Morgan L, et al. **Diabet Med** 1996 Jun;13(6):514-9

Serum fructosamine concentration as an index of glycemia in cats with diabetes mellitus and stress hyperglycemia. Crenshaw KL, et al. **J Vet Intern Med** 1996 Nov-Dec; 10(6):360-4

Effects of parathyroid hormone and 1,25(OH2)D3 on protein glycation in moderate uraemia. Lamb EJ, et al. **Nephron** 1996;74(2):295-300

Vitamin E modifies neither fructosamine nor HbA1c levels in poorly controlled diabetes. Gómez-Pérez FJ, et al. **Rev Invest Clin** 1996 Nov-Dec;48(6):421-4

[The concentration of glucose, glycosylated hemoglobin and fructosamine in blood of patients with cerebral hemorrhage in the acute stage of the disease] Chmielewska B, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:123-30 (Eng. Abstr.) **(Pol)**

METABOLISM

Effect of thiols on fructosamine assay. Liu W, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):277-83

FRUCTOSE

Effects of antihypertensive drugs on blood pressure and metabolic alterations in the fructose-induced hypertensive rat. Navarro-Cid J, et al. **Am J Hypertens** 1996 Jul; 9(7):669-74

Diabetic rats prefer glucose-paired flavors over fructose-paired flavors. Ackroff K, et al. **Appetite** 1997 Feb; 28(1):73-83

Effect of angiotensin-converting enzyme inhibitors on fructose induced hypertension and hyperinsulinaemia in rats. Erlich Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S347-9

Metabolic effects of dietary sucrose and fructose in type II diabetic subjects. Malerbi DA, et al. **Diabetes Care** 1996 Nov;19(11):1249-56

The addition of fructose or sodium citrate does not improve recovery rates of cryopreserved human spermatozoa. Silva AL, et al. **Int J Fertil Menopausal Stud** 1996 May-Jun; 41(3):304-9

Functional effects of food components and the gastrointestinal system: chicory fructooligosaccharides. Roberfroid MB. **Nutr Rev** 1996 Nov;54(11 Pt 2):S38-42 (20 ref.)

ADMINISTRATION & DOSAGE

Fructose feeding in rats is not associated with sodium retention. Iyer SN, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1018-23

Consequences of high dietary fructose in the islet-transplanted rat with suboptimal beta-cell mass. Bell RC, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E292-8

Involvement of lipogenesis in the lower VLDL secretion induced by oligofructose in rats. Kok N, et al. **Br J Nutr** 1996 Dec;76(6):881-90

Vitamin E improves the free radical defense system potential and insulin sensitivity of rats fed high fructose diets. Faure P, et al. **J Nutr** 1997 Jan;127(1):103-7

Exogenous oestrogen affects calcium metabolism differently from exogenous testosterone in ovariectomized or orchiectomized rats fed a high fructose diet severely deficient in magnesium. Koh ET, et al. **Magnes Res** 1996 Mar;9(1):23-31

Dietary oligofructose modifies the impact of fructose on

hepatic triacylglycerol metabolism. Kok N, et al. **Metabolism** 1996 Dec;45(12):1547–50

ADVERSE EFFECTS

Contribution of nitric oxide to the beneficial effects of enalapril in the fructose–induced hyperinsulinemic rat. Erlich Y, et al. **Hypertension** 1996 Nov;28(5):754–7

AGONISTS

Effects of fructose–induced hypertriglyceridemia on hepatorenal toxicity of acetaminophen in rats. Ishida K, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):509–16

ANALOGS & DERIVATIVES

The clinical pharmacokinetics of the newer antiepileptic drugs. Focus on topiramate, zonisamide and tiagabine. Perucca E, et al. **Clin Pharmacokinet** 1996 Jul;31(1):29–46 (120 ref.)

Topiramate—add–on drug for partial seizures. **Drug Ther Bull** 1996 Aug;34(8):62–4 (15 ref.)

New Options for the Treatment of Epilepsy: Topiramate in Perspective. Proceedings of an International Symposium. London, England, November 11–12, 1995. **Epilepsia** 1997; 38 Suppl 1:S1–62

Clinical efficacy of topiramate as add–on therapy in refractory partial epilepsy: the European experience. Ben–Menachem E. **Epilepsia** 1997;38 Suppl 1:S28–30

Preliminary open–label experience with topiramate in primary generalized seizures. Biton V. **Epilepsia** 1997;38 Suppl 1:S42–4

Efficacy of topiramate as adjunctive therapy in refractory partial seizures: United States trial experience. Faught E. **Epilepsia** 1997;38 Suppl 1:S24–7

Preliminary observations on topiramate in pediatric epilepsies. Glauser TA. **Epilepsia** 1997;38 Suppl 1:S37–41

Pharmacokinetics and interaction profile of topiramate: review and comparison with other newer antiepileptic drugs. Johannessen SI. **Epilepsia** 1997;38 Suppl 1:S18–23 (43 ref.)

Topiramate as adjunctive therapy in refractory partial epilepsy: pooled analysis of data from five double–blind, placebo–controlled trials. Reife RA, et al. **Epilepsia** 1997; 38 Suppl 1:S31–3

Long–term experience with topiramate as adjunctive therapy and as monotherapy in patients with partial onset seizures: retrospective survey of open–label treatment. Rosenfeld WE, et al. **Epilepsia** 1997;38 Suppl 1:S34–6

Comparison of the steady–state pharmacokinetics of topiramate and valproate in patients with epilepsy during monotherapy and concomitant therapy. Rosenfeld WE, et al. **Epilepsia** 1997 Mar;38(3):324–33

Effect of topiramate on the pharmacokinetics of an oral contraceptive containing norethindrone and ethinyl estradiol in patients with epilepsy. Rosenfeld WE, et al. **Epilepsia** 1997 Mar;38(3):317–23

Topiramate monotherapy for partial onset seizures [see comments] Sachdeo RC, et al. **Epilepsia** 1997 Mar; 38(3):294–300. Comment in: Epilepsia 1997 Mar;38(3):263–5.

Practical aspects of the use of topiramate in patients with epilepsy. Sander JW. **Epilepsia** 1997;38 Suppl 1:S56–8

Effect of topiramate on attention. Burton LA, et al. **Epilepsy Res** 1997 Apr;27(1):29–32

Double–blind, placebo–controlled study of topiramate in patients with refractory partial epilepsy. Sharief M, et al. **Epilepsy Res** 1996 Nov;25(3):217–24

Topiramate: a potent anticonvulsant in the amygdala–kindled rat. Wauquier A, et al. **Epilepsy Res** 1996 Jun;24(2):73–7

Hepatic production of 1,5–anhydrofructose and 1,5–anhydroglucitol in rat by the third glycogenolytic pathway. Kametani S, et al. **Eur J Biochem** 1996 Dec 15; 242(3):832–8

Production of 1,5–anhydroglucitol from 1,5–anhydrofructose in erythroleukemia cells. Suzuki M, et al. **Eur J Biochem** 1996 Aug 15;240(1):23–9

Efficacy and safety of topiramate in refractory epilepsy: a long–term prospective trial. Tartara A, et al. **Ital J Neurol Sci** 1996 Dec;17(6):429–32

NMR of all–carbon–13 sugars: an application in development of an analytical method for a novel natural sugar, 1,5–anhydrofructose. Kametani S, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):180–5

Single–dose pharmacokinetics and effect of food on the bioavailability of topiramate, a novel antiepileptic drug. Doose DR, et al. **J Clin Pharmacol** 1996 Oct;36(10):884–91

Topiramate reduces abnormally high extracellular levels of glutamate and aspartate in the hippocampus of spontaneously epileptic rats (SER). Kanda T, et al. **Life Sci** 1996;59(19):1607–16

Topiramate for epilepsy. **Med Lett Drugs Ther** 1997 May 23;39(1001):51–2

A pharmacological and clinical review on topiramate, a new antiepileptic drug. Perucca E. **Pharmacol Res** 1997 Apr; 35(4):241–56 (119 ref.)

Topiramate: a new antiepileptic drug for refractory epilepsy. Walker MC, et al. **Seizure** 1996 Sep;5(3):199–203 (33 ref.)

Topiramate. Glauser TA. **Semin Pediatr Neurol** 1997 Mar; 4(1):34–42 (44 ref.)

[Topiramate: a broad–spectrum antiepileptic drug? Sixth meeting of the European Neurological Society. Den Haag, 8 June 1996] **Fortschr Neurol Psychiatr** 1996 Sep;64(9 Suppl):1–8 **(Ger)**

[Topiramate—a new anti–epileptic agent] **Nervenarzt** 1996 Feb;67(2 Suppl):1–8 **(Ger)**

[Topiramate: a broad–spectrum antiepileptic drug? Sixth meeting of the European Neurological Society. Den Haag, 8 June 1996] **Psychiatr Prax** 1996 Sep;23(5 Suppl):1–8 **(Ger)**

[Topiramate, a new antiepileptic drug] Herranz JL. **Rev Neurol** 1997 Aug;25(144):1221–5 (23 ref.) (Eng. Abstr.) **(Spa)**

ANALYSIS

Selective spectrophotometric determination of glucose and fructose in the presence of aldoses using phenol–acetone reagent and cerium(III) chloride. Gamian A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):249–54

Changes in sugar, ash and minerals in four guava cultivars during ripening. el Buluk RE, et al. **Plant Foods Hum Nutr** 1996 Feb;49(2):147–54

BIOSYNTHESIS

High fructose syrups: evaluation of a new glucose isomerase from Streptomyces sp. Gusek TW, et al. **Adv Exp Med Biol** 1997;415:17–25

BLOOD

Changes in the concentration of fructose in the blood of piglets of different ages after doses of fructose, fructose plus glucose, and sucrose. Bird PH, et al. **Br J Nutr** 1996 Sep;76(3):399–407

Mannose, mannitol, fructose and 1,5–anhydroglucitol concentrations measured by gas chromatography/mass spectrometry in blood plasma of diabetic patients. Pitkänen E. **Clin Chim Acta** 1996 Jul 15;251(1):91–103

CHEMISTRY

Sites of glycation of beta B2–crystallin by glucose and fructose. Zhao HR, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):128–33

Beyond CHELP: improved potential derived charges for sugars. Carey C, et al. **Glycoconj J** 1997 Jun;14(4):501–5

DIAGNOSTIC USE

Long–term follow–up of proton irradiated malignant melanoma by glucose–fructose enhanced magnetic resonance imaging. Thuomas KA, et al. **Acta Ophthalmol Scand** 1997 Feb;75(1):17–21

Recurrence of malignant melanoma after irradiation diagnosed by glucose–fructose enhanced magnetic resonance imaging. Thuomas KA, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):330–3

Early detection of cancer cachexia in the rat using 31P magnetic resonance spectroscopy of the liver and a fructose stress test. Gehman KE, et al. **NMR Biomed** 1996 Sep; 9(6):271–5

METABOLISM

Effects of fish oil on metabolic responses to oral fructose and glucose loads in healthy humans. Delarue J, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E353–62

Hexose transport across the basolateral membrane of the chicken jejunum. Garriga C, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 2):R1330–5

Fructose transport and GLUT–5 protein in human sarcolemmal vesicles. Kristiansen S, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E543–8

Ontogeny of intestinal adaptation in rats in response to isocaloric changes in dietary lipids. Perin N, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G713–20

Dietary fructose enhances intestinal fructose transport and GLUT5 expression in weaning rats. Shu R, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G446–53

Effects of dexamethasone on hepatic glucose production and fructose metabolism in healthy humans. Tounian P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E315–20

Hexose metabolism in pancreatic islets: apparent dissociation between the secretory and metabolic effects of D–fructose. Sener A, et al. **Biochem Mol Med** 1996 Dec;59(2):182–6

Glycation of insulin by phosphorylated and nonphosphorylated reducing sugars. O'Harte FP, et al. **Biochem Soc Trans** 1997 Feb;25(1):150S

Human erythrocytes express GLUT5 and transport fructose. Concha II, et al. **Blood** 1997 Jun 1;89(11):4190–5

Studies on fructose metabolism in cultured astroglial cells and control hepatocytes: lack of fructokinase activity and immunoreactivity in astrocytes. Bergbauer K, et al. **Dev Neurosci** 1996;18(5–6):371–9

Release of fructose and hexose phosphates from perivascular cells induced by low density lipoprotein and acceleration of protein glycation in vitro. Takeda H, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1–3):1–8

Fructose transport mechanisms in humans. Shi X, et al. **Gastroenterology** 1997 Oct;113(4):1171–9

Effects of sperm activity on zinc and fructose concentrations in seminal plasma. Lewis–Jones DI, et al. **Hum Reprod** 1996 Nov;11(11):2465–7

Oxidation of 13C–glucose and 13C–fructose ingested as a preexercise meal: effect of carbohydrate ingestion during exercise. Burelle Y, et al. **Int J Sport Nutr** 1997 Jun; 7(2):117–27

Extracellular melibiose and fructose are intermediates in raffinose catabolism during fermentation to ethanol by engineered enteric bacteria. Moniruzzaman M, et al. **J Bacteriol** 1997 Mar;179(6):1880–6

Relationship between the concentrations of glycolytic intermediates and expression of the L–type pyruvate kinase gene in cultured hepatocytes. Kang R, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):162–6

Evaluation of 13CO2 breath tests for the detection of fructose malabsorption. Hoekstra JH, et al. **J Lab Clin Med** 1996 Mar;127(3):303–9

The effect of fructose metabolism on the accumulation of inositol phosphates in rat pancreatic islets. Malm D, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):129–34

Comparative glucose and fructose incorporation and conversion by in vitro produced bovine embryos. Guyader–Joly C, et al. **Zygote** 1996 May;4(2):85–91

[Fructose pathway] Kizaki Z, et al. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:239–43 (11 ref.) **(Jpn)**

[Isolation and properties of mutants devoid of pseudo–HPr activity of the fructose transfer system in Escherichia coli K12] Sergeev KV, et al. **Genetika** 1997 Mar;33(3):321–7 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Precocious enhancement of intestinal fructose uptake by diet in adrenalectomized rat pups. Monteiro IM, et al. **Pediatr Res** 1997 Mar;41(3):353–8

The regulation of GLUT5 and GLUT2 activity in the adaptation of intestinal brush–border fructose transport in diabetes. Corpe CP, et al. **Pflugers Arch** 1996 Jun; 432(2):192–201

PHARMACOLOGY

Effects of fructose ingestion on sorbitol and fructose 3–phosphate contents of erythrocytes from healthy men. Kawaguchi M, et al. **Acta Diabetol** 1996 Jul;33(2):100–2

Changes in angiotensin AT1 receptor density during hypertension in fructose–fed rats. Iyer SN, et al. **Adv Exp Med Biol** 1996;396:49–58

D–fructose–mediated stimulation of bovine lens aldose reductase activation by UV–irradiation. Mizoguchi T, et al. **Adv Exp Med Biol** 1997;414:529–35

Effect of acute and chronic losartan treatment on glucose tolerance and insulin sensitivity in fructose–fed rats. Iyer SN, et al. **Am J Hypertens** 1996 Jul;9(7):662–8

Effect of long–term exogenous hyperinsulinemia and fructose or glucose supplementation on triglyceride turnover in rats. Yoshino G, et al. **Atherosclerosis** 1997 Feb 28;129(1):33–9

Fructose–induced increase in intracellular free Mg2+ ion concentration in rat hepatocytes: relation with the enzymes of glycogen metabolism. Gaussin V, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):823–7

Investigation on the mechanism by which fructose, hexitols and other compounds regulate the translocation of glucokinase in rat hepatocytes. Niculescu L, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):239–46

Failure of D–fructose to stimulate protein biosynthesis in pancreatic islets. Viñambres C, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):571–4

Role of adenine nucleotides in the activation of microsomal cholesterol ester hydrolase by fructose or adenosine in rat hepatocytes. Hernandez ML, et al. **Biochimie** 1996; 78(1):26–32

Effect of dietary oligofructose and inulin on colonic preneoplastic aberrant crypt foci inhibition. Reddy BS, et al. **Carcinogenesis** 1997 Jul;18(7):1371–4

Effects of dietary fructose or glucose on triglyceride production and lipogenic enzyme activities in the liver of Wistar fatty rats, an animal model of NIDDM. Kazumi T, et al. **Endocr J** 1997 Apr;44(2):239–45

Inulin and oligofructose do not influence the absorption of cholesterol, or the excretion of cholesterol, Ca, Mg, Zn, Fe, or bile acids but increases energy excretion in ileostomy subjects. Ellegård L, et al. **Eur J Clin Nutr** 1997 Jan; 51(1):1–5

Effects of fructose–induced hypertriglyceridemia on hepatorenal toxicity of acetaminophen in rats. II. Role of enhancement of fructose metabolism and overproduction of triglyceride in the liver and kidney on hepatorenal toxicity of acetaminophen. Ishida K, et al. **Exp Toxicol Pathol** 1997 Feb;49(1–2):39–46

Influence of low corrected seminal fructose levels on sperm chromatin stability in semen from men attending an infertility service. Gonzales GF, et al. **Fertil Steril** 1997 Apr;67(4):763–8

Protective effect of fructose on survival and metabolic capacities of hepatocytes kept overnight under cold hypoxia before normothermic reoxygenation. Evdokimova E, et al. **Food Chem Toxicol** 1997 Jul;35(7):669–75

Allopurinol, an inhibitor of xanthine oxidase, reduces uric acid levels and modifies the signs associated with copper deficiency in rats fed fructose. Fields M, et al. **Free Radic Biol Med** 1996;20(4):595–600

Fructose and tagatose protect against oxidative cell injury by iron chelation. Valeri F, et al. **Free Radic Biol Med** 1997;22(1–2):257–68

Inhibition of glycoprotein processing by L–fructose and L–xylulose. Muniruzzaman S, et al. **Glycobiology** 1996 Dec; 6(8):795–803

FRUCTOSE

Cytoprotection by fructose and other ketohexoses during bile salt-induced apoptosis of hepatocytes. Zeid IM, et al. **Hepatology** 1997 Jan;25(1):81-6

Enlargement glycogen store in rat liver and muscle by fructose-diet intake and exercise training. Murakami T, et al. **J Appl Physiol** 1997 Mar;82(3):772-5

Muscle glycogen recovery after exercise during glucose and fructose intake monitored by 13C-NMR. Van Den Bergh AJ, et al. **J Appl Physiol** 1996 Oct;81(4):1495-500

Effect of bifidogenic factors on growth characteristics of bifidobacteria in infant formulas. Dubey UK, et al. **J Dairy Sci** 1996 Jul;79(7):1156-63

Experimental benefit of moxonidine on glucose metabolism and insulin secretion in the fructose-fed rat. Rösen P, et al. **J Hypertens Suppl** 1997 Jan;15(1):S31-8

Facilitating effect of amino acids on fructose and sorbitol absorption in children. Hoekstra JH, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):118-24

Effect of ethanol and fructose on plasma uridine and purine bases. Yamamoto T, et al. **Metabolism** 1997 May; 46(5):544-7

Influence of fructose on Candida albicans germ tube production. Vidotto V, et al. **Mycopathologia** 1996; 135(2):85-8

Effects of fructo-oligosaccharides ingestion on fecal bifidobacteria and selected metabolic indexes of colon carcinogenesis in healthy humans. Bouhnik Y, et al. **Nutr Cancer** 1996;26(1):21-9

Responses of insulin to oral glucose and fructose loads in marginally copper-deficient rats fed starch or fructose. Fields M, et al. **Nutrition** 1996 Jul-Aug;12(7-8):524-8

Is fructose sweeter than glucose for rats? Ramirez I. **Physiol Behav** 1996 Nov;60(5):1299-306

Time-dependent effects of fructose on the modulation of a reactivated memory. Horne CA, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 May; 21(4):649-58

Fructose stimulates shedding of cytoplasmic droplets from epididymal boar spermatozoa. Harayama H, et al. **Reprod Fertil Dev** 1996;8(7):1039-43

Effect of erythrocytes and prostacyclin production in the effect of fructose and sorbitol on platelet activation in human whole blood in vitro. De la Cruz JP, et al. **Thromb Res** 1997 Jun 15;86(6):515-24

Effect of fructose on the biochemical toxicity of hydrazine in isolated rat hepatocytes. Kerai MD, et al. **Toxicology** 1997 Jul 11;120(3):221-30

Effect of energy substrates on the preservation outcome of hepatocytes and sinusoidal endothelial cells in an experimental hypoxia/reoxygenation model. Zeilinger K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):403-5

TOXICITY

Vascular insulin resistance in fructose-hypertensive rats. Verma S, et al. **Eur J Pharmacol** 1997 Mar 19; 322(2-3):R1-2

Effects of fructose-induced hypertriglyceridemia on hepatorenal toxicity of acetaminophen in rats. Ishida K, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):509-16

Calculogenic potential of galactose and fructose in relation to urinary excretion of lithogenic substances in vitamin B6 deficient and control rats. Kaul P, et al. **J Am Coll Nutr** 1996 Jun;15(3):295-302

Effects of dietary carbohydrates on glucose and lipid metabolism in golden Syrian hamsters. Kasim-Karakas SE, et al. **J Lab Clin Med** 1996 Aug;128(2):208-13

Toxicity of sucrose and fructose for neonatal pigs (Becker et al. 1954). Baker DH. **J Nutr** 1997 May;127(5 Suppl):1049S-1050S

URINE

Urinary excretion of sucrose and fructose as a predictor of sucrose intake in dietary intervention studies. Luceri C, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar; 5(3):167-71

Essential fructosuria--a case report. Chakraborty I, et al. **J Indian Med Assoc** 1996 Jun;94(6):240, 233

FRUCTOSE-BISPHOSPHATASE

ANTAGONISTS & INHIBITORS

Characterization of the allosteric binding pocket of human liver fructose-1,6-bisphosphatase by protein crystallography and inhibitor activity studies. Iversen LF, et al. **Protein Sci** 1997 May;6(5):971-82

BIOSYNTHESIS

Molecular cloning and tissue-specific expression of mouse kidney 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Batra RS, et al. **FEBS Lett** 1996 Sep 16;393(2-3):167-73

Effect of growth factors on the expression of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase in Rat-1 fibroblasts. Joaquin M, et al. **J Biol Chem** 1997 Jan 31;272(5):2846-51

HIV-1 p17 and IFN-gamma both induce fructose 1,6-bisphosphatase. Besançon F, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):461-7

Various fructose-1,6-bisphosphatase mRNAs in mouse brain, liver, kidney and heart. Cloix JF, et al. **Neuroreport** 1997 Feb 10;8(3):617-22

CHEMISTRY

Molecular characterization and resistance to hydrogen peroxide of two fructose-1,6-bisphosphatases from Synechococcus PCC 7942. Tamoi M, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):27-36

Characterization of cysteine residues involved in the reductive activation and the structural stability of rapeseed (Brassica napus) chloroplast fructose-1,6-bisphosphatase. Rodriguez-Suarez RJ, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):388-93

Mutagenesis of charged residues in a conserved sequence in the 2-kinase domain of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase [published erratum appears in Biochem J 1997 May 1;323(Pt 3):864] Bertrand L, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):609-14

Modelling the 2-kinase domain of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase on adenylate kinase [published erratum appears in Biochem J 1997 May 1;323(Pt 3):864] Bertrand L, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):615-21

Redox modifications of spinach chloroplast fructose-1, 6-bisphosphatase. Chen Y, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):941-8

Identification of PRG1, a novel progestin-responsive gene with sequence homology to 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Hamilton JA, et al. **Mol Endocrinol** 1997 Apr;11(4):490-502

Characterization of the allosteric binding pocket of human liver fructose-1,6-bisphosphatase by protein crystallography and inhibitor activity studies. Iversen LF, et al. **Protein Sci** 1997 May;6(5):971-82

Evidence for an active T-state pig kidney fructose 1,6-bisphosphatase: interface residue Lys-42 is important for allosteric inhibition and AMP cooperativity. Lu G, et al. **Protein Sci** 1996 Nov;5(11):2333-42

Crystal structures of the active site mutant (Arg-243-->Ala) in the T and R allosteric states of pig kidney fructose-1,6-bisphosphatase expressed in Escherichia coli. Stec B, et al. **Protein Sci** 1996 Aug;5(8):1541-53

DEFICIENCY see FRUCTOSE-1,6-DIPHOSPHATASE DEFICIENCY

GENETICS

Site-directed mutagenesis of Lys-174, Asp-179 and Asp-191 in the 2-kinase domain of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase [published erratum appears in Biochem J 1997 May 1;323(Pt 3):864] Bertrand L, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):623-7

Developmental aspects of transcription of fructose-1,6-bisphosphatase in newborn dogs. Feng B, et al. **Biochem Mol Med** 1997 Apr;60(2):174-81

The third human isoform of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase (PFKFB3) map position 10p14-p15. Nicholl J, et al. **Chromosome Res** 1997 Apr;5(2):150

Vitamin A regulates genes involved in hepatic gluconeogenesis in mice: phosphoenolpyruvate carboxykinase, fructose-1,6-bisphosphatase and 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Shin DJ, et al. **J Nutr** 1997 Jul;127(7):1274-8

Higher-plant chloroplast and cytosolic fructose-1,6-bisphosphatase isoenzymes: origins via duplication rather than prokaryote-eukaryote divergence. Martin W, et al. **Plant Mol Biol** 1996 Nov;32(3):485-91

IMMUNOLOGY

Interspecies cross-reactivity of a monoclonal antibody directed against wheat chloroplast fructose-1,6-bisphosphatase. Hagelin K, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):673-82

METABOLISM

Characterization of cysteine residues involved in the reductive activation and the structural stability of rapeseed (Brassica napus) chloroplast fructose-1,6-bisphosphatase. Rodriguez-Suarez RJ, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):388-93

Redox modifications of spinach chloroplast fructose-1, 6-bisphosphatase. Chen Y, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):941-8

Activation of spinach chloroplast fructose-1,6-bisphosphatase by monovalent cations. Chen Y, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):31-6

Stimulation of spinach (Spinacia oleracea) chloroplast fructose-1,6-bisphosphatase by mercuric ions. Ashton AR, et al. **FEBS Lett** 1997 May 12;408(1):30-2

Cysteine-153 is required for redox regulation of pea chloroplast fructose-1,6-bisphosphatase. Jacquot JP, et al. **FEBS Lett** 1997 Jan 20;401(2-3):143-7

Isolation of degradation-deficient mutants defective in the targeting of fructose-1,6-bisphosphatase into the vacuole for degradation in Saccharomyces cerevisiae. Hoffman M, et al. **Genetics** 1996 Aug;143(4):1555-66

Identification of residues of spinach thioredoxin f that influence interactions with target enzymes. Geck MK, et al. **J Biol Chem** 1996 Oct 4;271(40):24736-40

Importance of the dimer-dimer interface for allosteric signal transduction and AMP cooperativity of pig kidney fructose-1,6-bisphosphatase. Site-specific mutagenesis studies of Glu-192 and Asp-187 residues on the 190's loop. Lu G, et al. **J Biol Chem** 1997 Feb 21;272(8):5076-81

Biochemical properties of mutant and wild-type fructose-1,6-bisphosphatases are consistent with the coupling of intra- and intersubunit conformational changes in the T- and R-state transition. Shyur LF, et al. **J Biol Chem** 1996 Dec 27;271(52):33301-7

Localization of the fructose 1,6-bisphosphatase at the nuclear periphery. Sáez DE, et al. **J Cell Biochem** 1996 Dec 15; 63(4):453-62

Identification of novel vesicles in the cytosol to vacuole protein degradation pathway. Huang PH, et al. **J Cell Biol** 1997 Feb 24;136(4):803-10

Characterization of phosphofructokinase II and regulation of fructose 2,6-bisphosphate levels in Trichoderma reesei. Abrahao Neto J. **J Gen Microbiol** 1993 Jun;139(6):1363-9

Directed mutagenesis shows that the preceding region of the chloroplast fructose-1,6-bisphosphatase regulatory sequence is the thioredoxin docking site. Sahrawy M, et al. **J Mol Biol** 1997 Jun 20;269(4):623-30

The effect of preoperative carbohydrate loading on hormonal changes, hepatic glycogen, and glucoregulatory enzymes during abdominal surgery [see comments] Thorell A, et al. **Nutrition** 1996 Oct;12(10):690-5. Comment in: Nutrition 1996 Oct;12(10):721-3.

High-yield expression of pea thioredoxin m and assessment of its efficiency in chloroplast fructose-1,6-bisphosphatase activation. López Jaramillo J, et al. **Plant Physiol** 1997 Aug; 114(4):1169-75

PHYSIOLOGY

Function, structure and evolution of fructose-1,6-bisphosphatase. Marcus F, et al. **Arch Biol Med Exp (Santiago)** 1987;20(3-4):371-8 (49 ref.)

FRUCTOSE-1,6-BISPHOSPHATASE see **FRUCTOSE-BISPHOSPHATASE**

FRUCTOSE-1,6-DIPHOSPHATASE see **FRUCTOSE-BISPHOSPHATASE**

FRUCTOSE INTOLERANCE

GENETICS

Molecular analysis of the fructose transporter gene (GLUT5) in isolated fructose malabsorption. Wasserman D, et al. **J Clin Invest** 1996 Nov 15;98(10):2398-402

Neonatal screening for hereditary fructose intolerance: frequency of the most common mutant aldolase B allele (A149P) in the British population. James CL, et al. **J Med Genet** 1996 Oct;33(10):837-41

Molecular basis of hereditary fructose intolerance in Italy: identification of two novel mutations in the aldolase B gene. Santamaria R, et al. **J Med Genet** 1996 Sep;33(9):786-8

METABOLISM

Inhibition of phosphomannose isomerase by fructose 1-phosphate: an explanation for defective N-glycosylation in hereditary fructose intolerance. Jaeken J, et al. **Pediatr Res** 1996 Nov;40(5):764-6

URINE

Essential fructosuria--a case report. Chakraborty I, et al. **J Indian Med Assoc** 1996 Jun;94(6):240, 233

FRUCTOSEDIPHOSPHATASE see **FRUCTOSE-BISPHOSPHATASE**

FRUCTOSEDIPHOSPHATE ALDOLASE

ANALYSIS

Differential distribution of MAP1a and aldolase c in adult mouse cerebellum. Touri F, et al. **Eur J Neurosci** 1996 Jan;8(1):61-8

ANTAGONISTS & INHIBITORS

Inhibition of rabbit muscle aldolase by phosphorylated aromatic compounds. Blonski C, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):71-7

Slow reversible inhibitions of rabbit muscle aldolase with substrate analogues: synthesis, enzymatic kinetics and UV difference spectroscopy studies. Gefflaut T, et al. **Bioorg Med Chem** 1996 Dec;4(12):2043-54

Screening a random pentapeptide library, composed of 14 D-amino acids, against the COOH-terminal sequence of fructose-1,6-bisphosphate aldolase from Trypanosoma brucei. Samson I, et al. **J Biol Chem** 1997 Apr 25; 272(17):11378-83

BIOSYNTHESIS

Sequence requirement for replication initiation at the rat aldolase B locus implicated in its functional correlation with transcriptional regulation. Zhao Y, et al.

Biochem Biophys Res Commun 1997 Aug 28;237(3):707–13

CHEMISTRY

Lamprey fructose–1,6–bisphosphate aldolase: characterization of the muscle–type and non–muscle–type isozymes. Zhang R, et al. **Arch Biochem Biophys** 1997 May 1;341(1):170–6

Subunit interaction in mammalian aldolases. Sygusch J, et al. **Biochem J** 1997 May 1;323 (Pt 3):671–6

Thermodynamic analysis of the effects of small inert cosolutes in the ultracentrifugation of noninteracting proteins. Jacobsen MP, et al. **Biochemistry** 1996 Oct 8; 35(40):13173–9

Identification of neuronal isozyme specific residues by comparison of goldfish aldolase C to other aldolases. Berardini TZ, et al. **Comp Biochem Physiol A Physiol** 1997 Aug;117(4):471–6

Associations between erythrocyte band 3 protein and aldolase in detergent solution. Determining their stoichiometry by analytical ultracentrifugation. Huber E, et al. **Eur J Biochem** 1996 Dec 1;242(2):293–300

Studies with type I aldolase to understand fructose intolerance and combat parasitic disease. Dalby A, et al. **J Pharm Pharmacol** 1996 Feb;48(2):214–7

Novel active site in Escherichia coli fructose 1,6–bisphosphate aldolase. Blom NS, et al. **Nat Struct Biol** 1996 Oct;3(10):856–62

A lysine to arginine substitution at position 146 of rabbit aldolase A changes the rate–determining step to Schiff base formation. Morris AJ, et al. **Protein Eng** 1996 Jan;9(1):61–7

Thermal–induced unfolding domains in aldolase identified by amide hydrogen exchange and mass spectrometry. Zhang Z, et al. **Protein Sci** 1996 Jul;5(7):1282–9

The crystal structure of a class II fructose–1,6–bisphosphate aldolase shows a novel binuclear metal–binding active site embedded in a familiar fold. Cooper SJ, et al. **Structure** 1996 Nov 15;4(11):1303–15

DRUG EFFECTS

Significant suppression of rat liver aldolase B by a toxic coplanar polychlorinated biphenyl, 3,3',4,4',5–pentachlorobiphenyl. Ishii Y, et al. **Toxicology** 1997 Jan 15;116(1–3):193–9

GENETICS

Caenorhabditis elegans has two isozymic forms, CE–1 and CE–2, of fructose–1,6–bisphosphate aldolase which are encoded by different genes. Inoue T, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):226–34

Identification of the human aldolase A gene as the first induced target for the TR2 orphan receptor, a member of the steroid hormone receptor superfamily. Chang C, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):205–11

The transcription of the human fructose–bisphosphate aldolase C gene is activated by nerve–growth–factor–induced B factor in human neuroblastoma cells. Buono P, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):245–50

Authentication of animal cell cultures by direct visualization of repetitive DNA, aldolase gene PCR and isoenzyme analysis. Stacey GN, et al. **Biologicals** 1997 Mar;25(1):75–85

Multiple recruitment of class–I aldolase to chloroplasts and eubacterial origin of eukaryotic class–II aldolases revealed by cDNAs from Euglena gracilis. Plaumann M, et al. **Curr Genet** 1997 May;31(5):430–8

Independence and interdependence of the three human aldolase A promoters in transgenic mice. Moch C, et al. **Gene Expr** 1996;6(1):1–14

Hypoxia response elements in the aldolase A, enolase 1, and lactate dehydrogenase A gene promoters contain essential binding sites for hypoxia–inducible factor 1. Semenza GL, et al. **J Biol Chem** 1996 Dec 20;271(51):32529–37

Neonatal screening for hereditary fructose intolerance: frequency of the most common mutant aldolase B allele (A149P) in the British population. James CL, et al. **J Med Genet** 1996 Oct;33(10):837–41

Molecular basis of hereditary fructose intolerance in Italy: identification of two novel mutations in the aldolase B gene. Santamaria R, et al. **J Med Genet** 1996 Sep;33(9):786–8

An estimate of divergence time of Parazoa and Eumetazoa and that of Cephalochordata and Vertebrata by aldolase and triose phosphate isomerase clocks. Nikoh N, et al. **J Mol Evol** 1997 Jul;45(1):97–106

A combination of MEF3 and NFI proteins activates transcription in a subset of fast–twitch muscles. Spitz F, et al. **Mol Cell Biol** 1997 Feb;17(2):656–66

IMMUNOLOGY

Monoclonal anti–human aldolase C antibodies that react to the isozyme group–specific sequences and generally conserved sequences of human aldolase C1. Kaihara R, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):281–90

METABOLISM

Using the process of reactive immunization to induce catalytic antibodies with complex mechanisms: aldolases. Lerner RA, et al. **Acta Chem Scand** 1996 Aug;50(8):672–8

Mode of interactions of human aldolase isozymes with cytoskeletons. Kusakabe T, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):184–93

A glycolytic enzyme binding domain on tubulin. Volker KW, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):237–43

Lamprey fructose–1,6–bisphosphate aldolase: characterization of the muscle–type and non–muscle–type isozymes. Zhang R, et al. **Arch Biochem Biophys** 1997 May 1;341(1):170–6

Purification of a dichlorophenol–indophenol oxidoreductase from rat and bovine synaptic membranes: tight complex association of a glyceraldehyde–3–phosphate dehydrogenase isoform, TOAD64, enolase–gamma and aldolase C. Bulliard C, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):555–63

Interactions of aldolase and glyceraldehyde–3–phosphate dehydrogenase: molecular mass studies. Lal AK, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):507–15

Functional characterization of an extreme thermophilic class II fructose–1,6–bisphosphate aldolase. De Montigny C, et al. **Eur J Biochem** 1996 Oct 1;241(1):243–8

Associations between erythrocyte band 3 protein and aldolase in detergent solution. Determining their stoichiometry by analytical ultracentrifugation. Huber E, et al. **Eur J Biochem** 1996 Dec 1;242(2):293–300

Carbon isotope effects on the fructose–1,6–bisphosphate aldolase reaction, origin for non–statistical 13C distributions in carbohydrates. Gleixner G, et al. **J Biol Chem** 1997 Feb 28;272(9):5382–7

Rapamycin inhibits aldolase A expression during human lymphocyte activation. Wang X, et al. **J Cell Biochem** 1996 Nov 1;63(2):239–51

Some recent developments in the preparation of novel recognition systems: a recognition site for the selective catalysis of an aldol condensation using molecular imprinting and specific affinity motifs for alpha–chymotrypsin using a phage display peptide library. Nicholls IA, et al. **J Mol Recognit** 1996 Sep–Dec; 9(5–6):652–7

Evidence that a mitogen–inducible prolactin–immunoreactive protein in rat spleen lymphocytes is aldolase A. Masten SA, et al. **Life Sci** 1997; 60(24):2173–82

Inherited metabolic myopathy and hemolysis due to a mutation in aldolase A [letter; comment] Kopp A, et al. **N Engl J Med** 1996 Oct 17;335(16):1242–3. Comment on: N Engl J Med 1996 Apr 25;334(17):1100–4.

Product binding and role of the C–terminal region in class I D–fructose 1,6–bisphosphate aldolase [letter] Blom N, et al. **Nat Struct Biol** 1997 Jan;4(1):36–9

Significant suppression of rat liver aldolase B by a toxic coplanar polychlorinated biphenyl, 3,3',4,4',5–pentachlorobiphenyl. Ishii Y, et al. **Toxicology** 1997 Jan 15;116(1–3):193–9

PHARMACOLOGY

The effects of proteins on [Ca2+] measurement: different effects on fluorescent and NMR methods. Matsuda S, et al. **Cell Calcium** 1996 Nov;20(5):425–30

PHYSIOLOGY

Molecular clock for dating of divergence between animal phyla. Iwabe N, et al. **Jpn J Genet** 1995 Dec;70(6):687–92

RADIATION EFFECTS

[Changes in the kinetic properties of aldolase and lactate dehydrogenase in the brain cytoplasm of mice following chronic gamma irradiation at low doses] Treshchenkova IuA, et al. **Radiats Biol Radioecol** 1997 Jan–Feb;37(1):3–12 (Eng. Abstr.) **(Rus)**

FRUCTOSEDIPHOSPHATES

ADMINISTRATION & DOSAGE

Improved liver function following infusion of fructose–1, 6–bisphosphate in posthepatectomy patients. Nakai T, et al. **Nippon Geka Hokan** 1996 Jan 1;65(1):3–12

ANALYSIS

Enzymatic assays of fructose–1–phosphate and fructose–1,6–bisphosphate in the picomole range. Niculescu L, et al. **Anal Biochem** 1996 Mar 15;235(2):243–44

BLOOD

[Determination of fructose–2,6–biphosphate in human peripheral blood lymphocytes––a potential clinico–laboratory test in diabetology] Beliaeva NF, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):341–4 **(Rus)**

CHEMISTRY

Crystal structure of a trapped phosphoenzyme during a catalytic reaction [letter] Lee YH, et al. **Nat Struct Biol** 1997 Aug;4(8):615–8

METABOLISM

Regulation of skeletal muscle metabolism in the lizard Dipsosaurus dorsalis by fructose–2,6–bisphosphate. Scholnick DA, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1447–51

Effect of a novel hypoglycemic agent, KAD–1229 on glucose metabolism and fructose–2,6–bisphosphate content in isolated hepatocytes of normal rats. Nakashima E, et al. **Diabetes Res Clin Pract** 1996 Sep;34(1):13–22

Calmodulin antagonists decrease glucose 1,6–bisphosphate, fructose 1,6–bisphosphate, ATP and viability of melanoma cells. Glass–Marmor L, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):265–71

Characterization of a glucose–repressed pyruvate kinase (Pyk2p) in Saccharomyces cerevisiae that is catalytically insensitive to fructose–1,6–bisphosphate. Boles E, et al. **J Bacteriol** 1997 May;179(9):2987–93

Stimulation of glucose–6–phosphatase gene expression by glucose and fructose–2,6–bisphosphate. Argaud D, et al. **J Biol Chem** 1997 May 9;272(19):12854–61

Characterization of phosphofructokinase II and regulation of fructose 2,6–bisphosphate levels in Trichoderma reesei. Abrahao Neto J. **J Gen Microbiol** 1993 Jun;139(6):1363–9

Fructose 2,6–bisphosphate metabolism during megakaryocytic differentiation of K562 and MEG–01 cells [published erratum appears in Mol Cell Biochem 1996 Jun 21;159(2):169] Meacci E, et al. **Mol Cell Biochem** 1996 Mar 23;156(2):125–30

Cloning of a second gene encoding 5–phosphofructo–2–kinase in yeast, and characterization of mutant strains without fructose–2,6–bisphosphate. Boles E, et al. **Mol Microbiol** 1996 Apr;20(1):65–76

The fructose diphosphate/phosphate regulation of carbohydrate metabolism in low G + C gram–positive anaerobes. Russell JB, et al. **Res Microbiol** 1996 Jul–Sep; 147(6–7):528–35 (82 ref.)

[Effect of oral inulin administration on the fructose 2,6–biphosphate level in the liver tissue of rats with streptozocin diabetes] Guseva DA, et al. **Vopr Med Khim** 1997 Jul–Aug;43(4):247–55 (Eng. Abstr.) **(Rus)**

[Functional characteristics of fructose–2,6–bisphosphate system in the liver during experimental streptozotocin diabetes] Markova MS, et al. **Vopr Med Khim** 1996 Jul–Sep; 42(3):223–6 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Hemodynamic effects of fructose 1,6–diphosphate in patients with normal and impaired left ventricular function. Markov AK, et al. **Am Heart J** 1997 May;133(5):541–9

Exogenous fructose 1,6–bisphosphate reduces K+ permeability in isolated rat hepatocytes. Roig T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C473–8

Effects of neuroprotective dose of fructose–1,6–bisphosphate on hypoxia–induced expression of c–fos and hsp70 mRNA in neonatal rat cerebrocortical slices. Hasegawa K, et al. **Brain Res** 1997 Mar 7;750(1–2):1–10

Protection of astrocytes by fructose 1,6–bisphosphate and citrate ameliorates neuronal injury under hypoxic conditions. Kelleher JA, et al. **Brain Res** 1996 Jul 8; 726(1–2):167–73

Use of fructose–2,6–diphosphate to assay for phosphofructokinase activity in human muscle. Schliselfeld LH, et al. **Clin Biochem** 1996 Feb;29(1):79–83

Allosteric activation of L–lactate dehydrogenase analyzed by hybrid enzymes with effector–sensitive and –insensitive subunits. Fushinobu S, et al. **J Biol Chem** 1996 Oct 11; 271(41):25611–6

Effects of fructose–1,6–bisphosphate on glutamate release and ATP loss from rat brain slices during hypoxia. Bickler PE, et al. **J Neurochem** 1996 Oct;67(4):1463–8

Effects of fructose–1,6–biphosphate on microsphere–induced cerebral ischemia in the rat. Trimarchi GR, et al. **Life Sci** 1997;61(6):611–22

Fructose–1,6–diphosphate: potential protection in cyclosporine–induced renal impairment. Cardoso LR, et al. **Nephron** 1996;72(1):67–71

Effects of fructose–1,6–diphosphate on the activity of rat liver nitric oxide synthase in vitro. Mihas AA, et al. **Pharmacology** 1997 Jan;54(1):43–8

Protection from amphotericin B–induced lipid peroxidation in rats by fructose–1,6–diphosphate. Rao MR, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):217–20

THERAPEUTIC USE

Fructose–1,6–bisphosphate after hypoxic ischemic injury is protective to the neonatal rat brain. Sola A, et al. **Brain Res** 1996 Nov 25;741(1–2):294–9

[The effect of fructose–1,6–diphosphate, cytochrome c and their combination on the size of the necrotic area in transient myocardial ischemia] Imatdieva RM, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):32–4 (Eng. Abstr.) **(Rus)**

FRUCTOSEPHOSPHATES

ANALYSIS

Effects of fructose ingestion on sorbitol and fructose 3–phosphate contents of erythrocytes from healthy men. Kawaguchi M, et al. **Acta Diabetol** 1996 Jul;33(2):100–2

Enzymatic assays of fructose–1–phosphate and fructose–1,6–bisphosphate in the picomole range. Niculescu L, et al. **Anal Biochem** 1996 Mar 15;235(2):243–44

METABOLISM

Glycation of insulin by phosphorylated and nonphosphorylated reducing sugars. O'Harte FP, et al.

Biochem Soc Trans 1997 Feb;25(1):150S

Affinity labeling of Escherichia coli glucosamine-6-phosphate synthase with a fructose 6-phosphate analog--evidence for proximity between the N-terminal cysteine and the fructose-6-phosphate-binding site. Leriche C, et al. **Eur J Biochem** 1997 Apr 15; 245(2):418-22

The further metabolism of sorbitol-3-phosphate and fructose-3-phosphate in the mature rat lens. Cheng HM, et al. **Ophthalmic Res** 1996;28(1):57-63

[Various properties of liver transketolase] Kubyshin VL, et al. **Ukr Biokhim Zh** 1996 Jul-Aug;68(4):79-84 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Inhibition of phosphomannose isomerase by fructose 1-phosphate: an explanation for defective N-glycosylation in hereditary fructose intolerance. Jaeken J, et al. **Pediatr Res** 1996 Nov;40(5):764-6

FRUIT

The effect of cranberry juice on the presence of bacteria and white blood cells in the urine of elderly women. What is the role of bacterial adhesion? Avorn J. **Adv Exp Med Biol** 1996;408:185-6

The National 5 A Day for Better Health Program. Heimendinger J, et al. **Adv Exp Med Biol** 1996;401:199-206 (29 ref.)

Anti-Escherichia coli adhesin activity of cranberry and blueberry juices. Ofek I, et al. **Adv Exp Med Biol** 1996; 408:179-83 (16 ref.)

Endogenous production of methanol after the consumption of fruit. Lindinger W, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):939-43

Birch pollinosis and atopy caused by apple, peach, and hazelnut; comparison of three extraction procedures with two apple strains. de Groot H, et al. **Allergy** 1996 Oct; 51(10):712-8

Fruits and vegetables: there is no substitute [editorial; comment] Levine M. **Am J Clin Nutr** 1996 Sep;64(3):381-2 . Comment on: Am J Clin Nutr 1996 Sep;64(3):336-46.

Human plasma carotenoid response to the ingestion of controlled diets high in fruits and vegetables. Yeum KJ, et al. **Am J Clin Nutr** 1996 Oct;64(4):594-602

Repeated measurements of vegetables, fruits, beta-carotene, and vitamins C and E in relation to lung cancer. The Zutphen Study. Ocké MC, et al. **Am J Epidemiol** 1997 Feb 15;145(4):358-65

Relation of vegetable, fruit, and grain consumption to colorectal adenomatous polyps [see comments] Witte JS, et al. **Am J Epidemiol** 1996 Dec 1;144(11):1015-25. Comment in: Am J Epidemiol 1996 Dec 1;144(11):1026-7.

Cranial shape in fruit, nectar, and exudate feeders: implications for interpreting the fossil record. Dumont ER. **Am J Phys Anthropol** 1997 Feb;102(2):187-202

Maine students' musculoskeletal injuries attributed to harvesting blueberries [letter] Millard PS, et al. **Am J Public Health** 1996 Dec;86(12):1821-2

Respiratory function and immunologic status in workers processing dried fruits and teas. Zuskin E, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):417-22

Dissipation and distribution of atrazine, simazine, chlorpyrifos, and tetradifon residues in citrus orchard soil. Redondo MJ, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):346-52

Gene technology will make fruit and vegetables the key to public health [news] **Aust Fam Physician** 1996 Dec; 25(12):1815

Effect of bitter melon (Momordica charantia) fruit juice on the hepatic cytochrome P450-dependent monooxygenases and glutathione S-transferases in streptozotocin-induced diabetic rats. Raza H, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1639-42

Apple: a new agrochemical crop. Ridgway T, et al. **Biochem Soc Trans** 1997 Feb;25(1):110S

Antioxidant action of novel derivatives of the apple-derived flavonoid phloridzin compared to oestrogen: relevance to potential cardioprotective action. Ridgway T, et al. **Biochem Soc Trans** 1997 Feb;25(1):106S

Enjoy your fruits and vegetables [editorial; comment] Gillman MW. **BMJ** 1996 Sep 28;313(7060):765-6. Comment on: BMJ 1996 Sep 28;313(7060):775-9.

Randomised controlled trial of effect of fruit and vegetable consumption on plasma concentrations of lipids and antioxidants. Zino S, et al. **BMJ** 1997 Jun 21; 314(7097):1787-91

Effect of food products on endogenous generation of N-nitrosamines in rats. Atanasova-Goranova VK, et al. **Br J Nutr** 1997 Aug;78(2):335-45

Colon cancer: the evolution of causal concepts [editorial] McMichael AJ. **Cancer Causes Control** 1997 Jul;8(4):541-3 (24 ref.)

Fruit and vegetable consumption and cancer mortality in the Caerphilly Study. Hertog MG, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):673-7

Consumption of fruit and vegetables: how to motivate the population to change their behavior. Lechner L, et al. **Cancer Lett** 1997 Mar 19;114(1-2):335-6

Habitual intake of fruits and vegetables amongst patients at increased risk of colorectal neoplasia. Matthew JA, et al. **Cancer Lett** 1997 Mar 19;114(1-2):255-8

Cancer prevention: epidemiology and experiment. Potter JD. **Cancer Lett** 1997 Mar 19;114(1-2):7-9 (5 ref.)

Interaction of dietary fat and of a vegetables/fruit mixture on 1,2-dimethylhydrazine- or N-methyl-N'-nitro-N-nitrosoguanidine-induced colorectal cancer in rats. Rijnkels JM, et al. **Cancer Lett** 1997 Mar 19;114(1-2):297-8

Acidogenic potential and total salivary carbohydrate content of expectorants following the consumption of some cereal-based foods and fruits. Pollard MA, et al. **Caries Res** 1996;30(2):132-7

Chilli, capsaicin and the stomach. Kang JY. **Clin Sci (Colch)** 1996 Sep;91(3):252-4 (25 ref.)

Haze and cloud in apple juices. Beveridge T. **Crit Rev Food Sci Nutr** 1997 Feb;37(1):75-91 (69 ref.)

Combination of preservation factors applied to minimal processing of foods. Tapia de Daza MS, et al. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):629-59 (133 ref.)

Olive pit pyloric obstruction. Losanoff JE, et al. **Endoscopy** 1996 Nov;28(9):788-9

Removal of a mango seed from the esophagus using a specially designed retrieval device. Misra SP, et al. **Endoscopy** 1996 May;28(4):399

The association between fruit and vegetable intake and chronic disease risk factors. Serdula MK, et al. **Epidemiology** 1996 Mar;7(2):161-5

Reliability and comparability of three dietary assessment methods for estimating fruit and vegetable intakes. Smith-Warner SA, et al. **Epidemiology** 1997 Mar; 8(2):196-201

Vegetable and fruit intake and the risk of lung cancer in women in Barcelona, Spain. Agudo A, et al. **Eur J Cancer** 1997 Jul;33(8):1256-61

Production of fruits and vegetables at the homestead is an important source of vitamin A among women in rural Bangladesh. Bloem MW, et al. **Eur J Clin Nutr** 1996 Jul; 50 Suppl 3:S62-7

Measuring fruit and vegetable intake: is five-a-day enough? Cox DN, et al. **Eur J Clin Nutr** 1997 Mar;51(3):177-80

Acid anion profiles in dental plaque following consumption of cereal-based foods and fruits. Pollard MA, et al. **Eur J Oral Sci** 1996 Oct-Dec;104(5-6):535-9

Contribution of phenols, quinones and reactive oxygen species to the mutagenicity of white grape juice in the Ames test. Patrineli A, et al. **Food Chem Toxicol** 1996 Sep; 34(9):869-72

Long term radiocesium contamination of fruit trees following the Chernobyl accident. Antonopoulos-Domis M, et al. **Health Phys** 1996 Dec;71(6):910-4

Social-cognitive predictors of fruit and vegetable intake in children. Resnicow K, et al. **Health Psychol** 1997 May; 16(3):272-6

Vegetables, fruit and phytoestrogens as preventive agents. Potter JD, et al. **IARC Sci Publ** 1996;(139):61-90 (205 ref.)

Fruit and vegetables, and cardiovascular disease: a review. Ness AR, et al. **Int J Epidemiol** 1997 Feb;26(1):1-13 (63 ref.)

Cancer in banana plantation workers in Costa Rica. Wesseling C, et al. **Int J Epidemiol** 1996 Dec;25(6):1125-31

A study of some important vitamins and antioxidants in a blackcurrant jam with low sugar content and without additives. Viberg U, et al. **Int J Food Sci Nutr** 1997 Jan; 48(1):57-66

Malabsorption of apple juice and pear nectar in infants and children: clinical implications. Ament ME. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):26S-29S

Calcium absorption from apple and orange juice fortified with calcium citrate malate (CCM). Andon MB, et al. **J Am Coll Nutr** 1996 Jun;15(3):313-6

Patterns in children's fruit and vegetable consumption by meal and day of the week. Baranowski T, et al. **J Am Coll Nutr** 1997 Jun;16(3):216-23

Fruit juice consumption by infants and children: a review. Dennison BA. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):4S-11S (36 ref.)

Gastric physiology and function: effects of fruit juices. Moukarzel AA, et al. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):18S-25S (41 ref.)

Digestion and absorption of fruit juice carbohydrates. Perman JA. **J Am Coll Nutr** 1996 Oct;15(5 Suppl):12S-17S (32 ref.)

Low validity of a seven-item fruit and vegetable food frequency questionnaire among third-grade students. Baranowski T, et al. **J Am Diet Assoc** 1997 Jan;97(1):66-8

Assessing fruit and vegetable consumption in a 5 a day study targeting rural blacks: the issue of portion size. Kramish Campbell M, et al. **J Am Diet Assoc** 1996 Oct;96(10):1040-2

Vegetables, fruit, and cancer prevention: a review. Steinmetz KA, et al. **J Am Diet Assoc** 1996 Oct;96(10):1027-39 (262 ref.)

Determination of patulin in apple juice by liquid chromatography: collaborative study. Brause AR, et al. **J AOAC Int** 1996 Mar-Apr;79(2):451-5

Fruit juices and pharmacology [editorial] Shader RI, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):245-6

Imitative learning of artificial fruit processing in children (Homo sapiens) and chimpanzees (Pan troglodytes). Whiten A, et al. **J Comp Psychol** 1996 Mar;110(1):3-14

Antianaphylactic activity of Poncirus trifoliata fruit extract. Lee YM, et al. **J Ethnopharmacol** 1996 Nov;54(2-3):77-84

Cranberry concentrate: UTI prophylaxis [letter] Walker EB, et al. **J Fam Pract** 1997 Aug;45(2):167-8

Equine gastric impaction, ulceration, and perforation due to persimmon (Diospyros virginiana) ingestion. Cummings CA, et al. **J Vet Diagn Invest** 1997 Jul;9(3):311-3

Effect of a diet high in vegetables, fruit, and nuts on serum lipids. Jenkins DJ, et al. **Metabolism** 1997 May;46(5):530-7

Fruit and vegetables in the service member's diet: data from military institutional feeding studies. Warber JP, et al. **Mil Med** 1997 Jul;162(7):468-71

Development of glial cells cultured from prenatally alcohol treated rat brain: effect of supplementation of the maternal alcohol diet with a grape extract. Ledig M, et al. **Neurochem Res** 1996 Mar;21(3):313-7

Vegetables, fruits, and risk of colorectal cancer: a case-control study from Uruguay. Deneo-Pellegrini H, et al. **Nutr Cancer** 1996;25(3):297-304

Interaction of dietary fat with a vegetables-fruit mixture on 1,2-dimethylhydrazine-induced colorectal cancer in rats. Rijnkels JM, et al. **Nutr Cancer** 1997;27(3):261-6

Cranberry juice and urinary tract infections: is there a beneficial relationship? Kuzminski LN. **Nutr Rev** 1996 Nov; 54(11 Pt 2):S87-90 (27 ref.)

Fruits and vegetables: protective or just fellow travelers? Nestle M. **Nutr Rev** 1996 Aug;54(8):255-7 (22 ref.)

An approach to functional food: cancer preventive potential of vegetables and fruits and their active constituents. Ohigashi H, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S24-8 (26 ref.)

Data review shows fruits and vegetables can block major cancers [news] **Oncology (Huntingt)** 1996 Sep;10(9):1411-2

Fruit juice consumption [letter] Dhurandhar NV. **Pediatrics** 1997 Oct;100(4):728-30

Fruit juice consumption [letter] Kennedy E, et al. **Pediatrics** 1997 Oct;100(4):728; discussion 729-30

Fruit juice consumption [letter] Stinson W. **Pediatrics** 1997 Oct;100(4):728; discussion 729-30

Physico-chemical and sensory properties of formulated syrup from black plum (Vitex doniana) fruit. Egbekun MK, et al. **Plant Foods Hum Nutr** 1996 Jun;49(4):301-6

Correlates of inadequate fruit and vegetable consumption among adolescents. Neumark-Sztainer D, et al. **Prev Med** 1996 Sep-Oct;25(5):497-505

Experts' subjective assessment of pesticide exposure in fruit growing. de Cock J, et al. **Scand J Work Environ Health** 1996 Dec;22(6):425-32

Effect of fresh fruit consumption on lung function and wheeze in children. Cook DG, et al. **Thorax** 1997 Jul; 52(7):628-33

Vegetables, fruit, and cancer prevention: the Wisconsin 5 a day for better health initiative. Moreau-Stodola D. **Wis Med J** 1997 Apr;96(4):39-41

[Repetitive movements of the upper limbs: results of exposure evaluation and clinical investigation during the sorting and packaging of apples] Merseburger A. **Med Lav** 1996 Nov-Dec;87(6):603-12 (Eng. Abstr.) **(Ita)**

[The effect of preoperative oral fluid intake on the volume and pH of gastric contents in elective surgical patients--a comparison of tea with apple juice] Tanabe T, et al. **Masui** 1996 Aug;45(8):967-70 (Eng. Abstr.) **(Jpn)**

[Effect of supplementation with peach palm as source of vitamin A: study with rats] Yuyama LK, et al. **Rev Saude Publica** 1996 Feb;30(1):61-6 (Eng. Abstr.) **(Por)**

[Cranberries: chemical composition, nutritional and medicinal properties] Zaĭtsev AN, et al. **Vopr Pitan** 1997;(2):38-40 (Eng. Abstr.) **(Rus)**

[The Mediterranean diet in Spain. Legend or reality? (II). Other elements in the Mediterranean diet: vegetables and fruits, fish. Evolution of the diet and cardiovascular diseases in Spain in the last decades] Alvarez-Sala Walther LA, et al. **Rev Clin Esp** 1996 Sep;196(9):636-46 (161 ref.) **(Spa)**

ADVERSE EFFECTS

"Latex-fruit syndrome": frequency of cross-reacting IgE antibodies. Brehler R, et al. **Allergy** 1997 Apr;52(4):404-10

Anaphylactic reaction caused by cherry ingestion. Escribano MM, et al. **Allergy** 1996 Oct;51(10):756-7

IgE-mediated hypersensitivity to custard-apple. Gonzalo MA, et al. **Allergy** 1997 May;52(5):597

Oral allergy syndrome to a jackfruit (Artocarpus integrifolia). Wüthrich B, et al. **Allergy** 1997 Apr;52(4):428-31

Oral allergy syndrome to apple after a lover's kiss. Wüthrich B. **Allergy** 1997 Feb;52(2):235-6

A nurse with anaphylaxis to stone fruits and latex sensitivity: potential diagnostic difficulties to consider. Weiss SJ, et al. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):504-8

Mango dermatitis: allergic contact dermatitis to Mangifera indica. Calvert ML, et al. **Australas J Dermatol** 1996 Feb; 37(1):59-60

Anaphylaxis to ackee fruit. Lebo DB, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):997-8

Fixed food eruption. Kelso JM. **J Am Acad Dermatol** 1996 Oct;35(4):638-9

Excess fruit juice consumption by preschool-aged children is associated with short stature and obesity. Dennison BA, et al. **Pediatrics** 1997 Jan;99(1):15-22

The effects of long-term administration of guarana on the cognition of normal, elderly volunteers. Galduróz JC, et al. **Rev Paul Med** 1996 Jan-Feb;114(1):1073-8

ANATOMY & HISTOLOGY

2D locally focused MRI: applications to dynamic and

spectroscopic imaging [published erratum appears in Magn Reson Med 1997 Feb;37(2):251] Yao L, et al. **Magn Reson Med** 1996 Dec;36(6):834–46

CHEMISTRY

Improvement of fruit allergenic extracts for immunoblotting experiments. Martínez A, et al. **Allergy** 1997 Feb; 52(2):155–61

Solid phase microextraction for quantitative headspace sampling of apple volatiles. Matich AJ, et al. **Anal Chem** 1996 Dec 1;68(23):4114–8

Evaluation of hydromatrix and magnesium sulfate drying agents for supercritical fluid extraction of multiple pesticides in produce. Eller KI, et al. **Analyst** 1997 May; 122(5):429–35

Carotenoid composition and vitamin A value of Brazilian loquat (Eriobotrya japonica Lindl.). Godoy HT, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):336–9

Determination of sugar specificity of jackfruit lectin by a simple sugar–lectin binding assay using microtiter plate. Wetprasit N, et al. **Biochem Mol Biol Int** 1997 Jun; 42(2):399–408

Potent antioxidant properties of novel apple-derived flavonoids with commercial potential as food additives. Ridgway T, et al. **Biochem Soc Trans** 1996 Aug;24(3):391S

Comparative histochemical analysis of cell wall polysaccharides by enzymatic and chemical extractions of two fruits. Jona R, et al. **Biotech Histochem** 1997 Jan; 72(1):22–8

Multiresidue analysis of fungicides in strawberry. Nagami H. **Bull Environ Contam Toxicol** 1997 Jan;58(1):53–60

Determination of plant polyphenols in Danish foodstuffs by HPLC–UV and LC–MS detection. Justesen U, et al. **Cancer Lett** 1997 Mar 19;114(1–2):165–7

Inhibition of 12–O–tetradecanoylphorbol–13–acetate induced Epstein–Barr virus early antigen activation by natural colorants. Kapadia GJ, et al. **Cancer Lett** 1997 May 19; 115(2):173–8

Flavonoids and phenolic acids in selected berries. Törrönen R, et al. **Cancer Lett** 1997 Mar 19;114(1–2):191–2

Rhamnogalacturonan II, a dominant polysaccharide in juices produced by enzymic liquefaction of fruits and vegetables. Doco T, et al. **Carbohydr Res** 1997 Jan 2;297(2):181–6

Induction of gram–negative bacterial growth by neurochemical containing banana (Musa x paradisiaca) extracts. Lyte M. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):245–50

Inhibition of the mutagenicity of 2–nitrofluorene, 3–nitrofluoranthene and 1–nitropyrene by vitamins, porphyrins and related compounds, and vegetable and fruit juices and solvent extracts. Tang X, et al. **Food Chem Toxicol** 1997 Mar–Apr;35(3–4):373–8

Gas chromatographic determination of cyprodinil, fludioxonil, pyrimethanil, and tebuconazole in grapes, must, and wine. Cabras P, et al. **J AOAC Int** 1997 Jul–Aug; 80(4):867–70

Determination of avermectin B1 in biological samples by immunoaffinity column cleanup and liquid chromatography with UV detection. Li J, et al. **J AOAC Int** 1996 Sep–Oct; 79(5):1062–7

Detection of added beet sugar in concentrated and single strength fruit juices by deuterium nuclear magnetic resonance (SNIF–NMR method): collaborative study. Martin GG, et al. **J AOAC Int** 1996 Jul–Aug;79(4):917–28

Occurrence of pesticide residues in selected agricultural food commodities available in Canada. Neidert E, et al. **J AOAC Int** 1996 Mar–Apr;79(2):549–66

Monitoring of domestic and imported apples and rice by the U.S. Food and Drug Administration pesticide program. Roy RR, et al. **J AOAC Int** 1997 Jul–Aug;80(4):883–94

Homogeneity of fruits and vegetables comminuted in a vertical cutter mixer. Young SJ, et al. **J AOAC Int** 1996 Jul–Aug;79(4):976–80

Simultaneous determination of soluble sugars and organic acids as their trimethylsilyl derivatives in apricot fruits by gas–liquid chromatography. Bartolozzi F, et al. **J Chromatogr A** 1997 Jan 10;758(1):99–107

Complementation of direct–injection high–performance liquid chromatography and enzyme–linked immunosorbent assay for the analysis of thiabendazole in fruit juices and concentrates. Bushway RJ. **J Chromatogr A** 1996 Nov 22; 754(1–2):431–5

Simplified determination of combined residues of prochloraz and its metabolites in vegetable, fruit and wheat samples by gas chromatography. De Paoli M, et al. **J Chromatogr A** 1997 Mar 21;765(1):127–31

Chromatographic analysis of imazalil and carbendazim in fruits. Method validation and residue monitoring program 1995. Garrido J, et al. **J Chromatogr A** 1997 Mar 21; 765(1):91–7

Evaluation of different solid–phase traps for automated collection and clean–up in the analysis of multiple pesticides in fruits and vegetables after supercritical fluid extraction. Lehotay SJ, et al. **J Chromatogr A** 1997 Mar 21; 765(1):69–84

Fractionation of glycoside precursors of aroma in grapes and wine. Mateo JJ, et al. **J Chromatogr A** 1997 Aug 22; 778(1–2):219–24

Determination of diflubenzuron in apples by gas chromatography. Mensah JK, et al. **J Chromatogr A** 1997 Mar 21;765(1):85–90

Official multiresidue methods of pesticide analysis in vegetables, fruits and soil. Motohashi N, et al. **J Chromatogr A** 1996 Nov 22;754(1–2):333–46 (64 ref.)

Decay study of pesticide residues in apple samples. Pérez Clavijo M, et al. **J Chromatogr A** 1996 Jul 26;740(1):146–50

Pesticide residue analysis in fresh produce by gas chromatography–tandem mass spectrometry. Schachterle S, et al. **J Chromatogr A** 1996 Nov 22;754(1–2):411–22

Determination of pesticide residues in fruit and vegetables. Torres CM, et al. **J Chromatogr A** 1996 Nov 22; 754(1–2):301–31 (185 ref.)

Comparison of octadecylsilica and graphitized carbon black as materials for solid–phase extraction of fungicide and insecticide residues from fruit and vegetables. Torres CM, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):127–37

Use of ion chromatography for monitoring microbial spoilage in the fruit juice industry. Trifirò A, et al. **J Chromatogr A** 1997 May 16;770(1–2):243–52

Carotenoids and their fatty–acid esters in banana peel. Subagio A, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Dec; 42(6):553–66

Antibacterial activity of xanthones from guttiferaeous plants against methicillin–resistant Staphylococcus aureus. Iinuma M, et al. **J Pharm Pharmacol** 1996 Aug;48(8):861–5

Purification and characterization of an antifungal PR–5 protein from pumpkin leaves. Cheong NE, et al. **Mol Cells** 1997 Apr 30;7(2):214–9

Chemical composition of indigenous wild herbs, spices, fruits, nuts and leafy vegetables used as food. Achinewhu SC, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):341–8

The suitability of African bush mango juice for wine production. Akubor PI. **Plant Foods Hum Nutr** 1996 Apr; 49(3):213–9

Changes in sugar, ash and minerals in four guava cultivars during ripening. el Buluk RE, et al. **Plant Foods Hum Nutr** 1996 Feb;49(2):147–54

Physicochemical characteristics of five date fruit cultivars grown in the United Arab Emirates. al–Hooti S, et al. **Plant Foods Hum Nutr** 1997;50(2):101–13

Procyanidines from Vitis vinifera seeds protect rabbit heart from ischemia/reperfusion injury: antioxidant intervention and/or iron and copper sequestering ability. Maffei Facinó R, et al. **Planta Med** 1996 Dec;62(6):495–502

Determination of the pesticide fenbutatin oxide in tomatoes, cucumbers and bananas by high performance liquid chromatographic/atmospheric pressure chemical ionization–mass spectrometry. Barnes KA, et al. **Rapid Commun Mass Spectrom** 1997;11(2):159–64

Identification of catechin oligomers from apple (Malus pumila cv. Fuji) in matrix–assisted laser desorption/ionization time–of–flight mass spectrometry and fast–atom bombardment mass spectrometry. Ohnishi–Kameyama M, et al. **Rapid Commun Mass Spectrom** 1997;11(1):31–6

Rapid induction of hepatocyte growth factor mRNA after administration of gomisin A, a lignan component of shizandra fruits. Shiota G, et al. **Res Commun Mol Pathol Pharmacol** 1996 Nov;94(2):141–6

Changes of bromopropylate and carbendazim residues during processing of apples into apple puree. Sadło S. **Rocz Panstw Zakl Hig** 1996;47(3):273–6

Cancer chemopreventive activity of resveratrol, a natural product derived from grapes. Jang M, et al. **Science** 1997 Jan 10;275(5297):218–20

Quantitative determination of the polyphenolic content of pomegranate peel. Ben Nasr C, et al. **Z Lebensm Unters Forsch** 1996 Oct;203(4):374–8

[Polyphenolic composition of the leaf of bilberry] Fraisse D, et al. **Ann Pharm Fr** 1996;54(6):280–3 (Eng. Abstr.) **(Fre)**

[Regeneration of endogenous antioxidants, ascorbic acid, alpha tocopherol, by the oligomeric procyanide fraction of Vitus vinifera L.:ESR study] Maffei Facino R, et al. **Boll Chim Farm** 1997 Apr;136(4):340–4 **(Ita)**

[Comparison of the quality of frozen raspberries depending on the use of various additives] Kmiecik W, et al. **Rocz Panstw Zakl Hig** 1996;47(4):401–10 (Eng. Abstr.) **(Pol)**

CLASSIFICATION

Elegant nose and powerful body—who were the parents of such nobility? [news; comment] Luby J. **Nat Genet** 1997 May;16(1):4–5. Comment on: Nat Genet 1997 May;16(1):84–7.

CYTOLOGY

[Isolation of protoplasts from vegetable tissues using extracellular lytic enzymes from fusarium oxysporum f.sp. melonis] Alconada TM, et al. **Rev Argent Microbiol** 1995 Oct–Dec;27(4):191–7 (Eng. Abstr.) **(Spa)**

ECONOMICS

Pricing strategy to promote fruit and vegetable purchase in high school cafeterias. French SA, et al. **J Am Diet Assoc** 1997 Sep;97(9):1008–10

EMBRYOLOGY

Somatic embryogenesis and plantlet from petal cultures of pomegranate, Punica granatum L. Nataraja K, et al. **Indian J Exp Biol** 1996 Jul;34(7):719–21

ENZYMOLOGY

Milk–clotting activity of cucumisin, a plant serine protease from melon fruit. Uchikoba T, et al. **Appl Biochem Biotechnol** 1996 Mar;56(3):325–30

Characterization and expression analysis of a banana gene encoding 1–aminocyclopropane–1–carboxylate oxidase. Huang PL, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):941–50

Purification and characterization of peroxisomal and mitochondrial Mn–superoxide dismutases from watermelon cotyledons. Pastori GM, et al. **Biochem Soc Trans** 1996 May;24(2):196S

Location of cysteine and cystine residues in S–ribonucleases associated with gametophytic self–incompatibility. Ishimizu T, et al. **Eur J Biochem** 1996 Dec 15;242(3):627–35

Regulatory phosphorylation of banana fruit phosphoenolpyruvate carboxylase by a copurifying phosphoenolpyruvate carboxylase–kinase. Law RD, et al. **Eur J Biochem** 1997 Jul 15;247(2):642–51

Heterologous expression and site–directed mutagenesis of the 1–aminocyclopropane–1–carboxylate oxidase from kiwi fruit. Lay VJ, et al. **Eur J Biochem** 1996 Dec 1; 242(2):228–34

Purification and properties of cytosolic copper, zinc superoxide dismutase from watermelon (Citrullus vulgaris Schrad.) cotyledons. Palma JM, et al. **Free Radic Res** 1997 Jan;26(1):83–91

Immunocytochemical localization of copper,zinc superoxide dismutase in peroxisomes from watermelon (Citrullus vulgaris Schrad.) cotyledons. Sandalio LM, et al. **Free Radic Res** 1997 Mar;26(3):187–94

Aggregation of banana pyrophosphate fructose 6–phosphate 1–phosphotransferase by glycerol. Surendranathan KK, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):498–505

Identification and partial amino acid sequences of seven S–RNases associated with self–incompatibility of Japanese pear, Pyrus pyrifolia Nakai. Ishimizu T, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):326–34

Molecular cloning and nucleotide sequences of cDNAs encoding S–allele specific stylar RNases in a self–incompatible cultivar and its self–compatible mutant of Japanese pear, Pyrus pyrifolia Nakai. Norioka N, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):335–45

Purification and reconstitution of the vacuolar H+–ATPases from lemon fruits and epicotyls. Müller ML, et al. **J Biol Chem** 1997 May 9;272(19):12762–70

Melon ascorbate oxidase: cloning of a multigene family, induction during fruit development and repression by wounding. Diallinas G, et al. **Plant Mol Biol** 1997 Jul; 34(5):759–70

An ozone–responsive region of the grapevine resveratrol synthase promoter differs from the basal pathogen–responsive sequence. Schubert R, et al. **Plant Mol Biol** 1997 Jun;34(3):417–26

A cDNA clone highly expressed in ripe banana fruit shows homology to pectate lyases. Dominguez–Puigjaner E, et al. **Plant Physiol** 1997 Jul;114(3):1071–6

GENETICS

Cloning and characterization of cDNAs from genes differentially expressed during the strawberry fruit ripening process by a MAST–PCR–SBDS method. Medina–Escobar N, et al. **Anal Biochem** 1997 Jun 1; 248(2):288–96

Characterization and expression analysis of a banana gene encoding 1–aminocyclopropane–1–carboxylate oxidase. Huang PL, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):941–50

cDNA cloning and expression of a class II acidic chitinase from sweet orange. Nairn CJ, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):22–6

A rab11–like gene is developmentally regulated in ripening mango (Mangifera indica L.) fruit. Zainal Z, et al. **Biochim Biophys Acta** 1996 Dec 12;1314(3):187–90

Vaccine cuisine. Brown K. **Environ Health Perspect** 1996 Mar;104(3):276–8

Genomic structure and expression analyses of serine acetyltransferase gene in Citrullus vulgaris (watermelon). Saito K, et al. **Gene** 1997 Apr 11;189(1):57–63

Characterization of heterochromatic regions in 'Trovita' orange (Citrus sinensis Osbeck) chromosomes by the fluorescent staining and FISH methods. Matsuyama T, et al. **Genome** 1996 Oct;39(5):941–5

Identification and partial amino acid sequences of seven S–RNases associated with self–incompatibility of Japanese pear, Pyrus pyrifolia Nakai. Ishimizu T, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):326–34

Molecular cloning and nucleotide sequences of cDNAs encoding S–allele specific stylar RNases in a self–incompatible cultivar and its self–compatible mutant of Japanese pear, Pyrus pyrifolia Nakai. Norioka N, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):335–45

Cloning of cold–inducible dehydrin–like genes from the blackcurrant (Ribes nigrum L.) using RT–PCR. Kemp R, et al. **Mol Biotechnol** 1997 Apr;7(2):99–102

Isolation of RNA from blackcurrant (Ribes nigrum L.) fruit. Woodhead M, et al. **Mol Biotechnol** 1997 Feb;7(1):1–4

Use of competitive PCR to assay copy number of repetitive elements in banana. Baurens FC, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):57–64

One for the vine [editorial; comment] **Nat Genet** 1997 May;

16(1):1. Comment on: Nat Genet 1997 May;16(1):84–7.
The parentage of a classic wine grape, Cabernet Sauvignon [see comments] Bowers JE, et al. **Nat Genet** 1997 May; 16(1):84–7. Comment in: Nat Genet 1997 May;16(1):1. Comment in: Nat Genet 1997 May;16(1):4–5.
Elegant nose and powerful body—who were the parents of such nobility? [news; comment] Luby J. **Nat Genet** 1997 May;16(1):4–5. Comment on: Nat Genet 1997 May;16(1):84–7.
A simple and rapid method for isolation of high quality genomic DNA from fruit trees and conifers using PVP. Kim CS, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1085–6
Gene expression during cold acclimation in strawberry. NDong C, et al. **Plant Cell Physiol** 1997 Jul;38(7):863–70
Molecular cloning and characterization of a MADS-box cDNA clone of the Fuji apple. Sung SK, et al. **Plant Cell Physiol** 1997 Apr;38(4):484–9
Expression of anthocyanin biosynthesis pathway genes in red and white grapes. Boss PK, et al. **Plant Mol Biol** 1996 Nov;32(3):565–9
Melon ascorbate oxidase: cloning of a multigene family, induction during fruit development and repression by wounding. Diallinas G, et al. **Plant Mol Biol** 1997 Jul; 34(5):759–70
Chromoplast development in ripening tomato fruit: identification of cDNAs for chromoplast-targeted proteins and characterization of a cDNA encoding a plastid-localized low-molecular-weight heat shock protein. Lawrence SD, et al. **Plant Mol Biol** 1997 Feb; 33(3):483–92
Effects of chilling on the expression of ethylene biosynthetic genes in Passe-Crassane pear (Pyrus communis L.) fruits. Lelièvre JM, et al. **Plant Mol Biol** 1997 Mar;33(5):847–55
Characterization of Vitis vinifera L. glutamine synthetase and molecular cloning of cDNAs for the cytosolic enzyme. Loulakakis KA, et al. **Plant Mol Biol** 1996 Aug; 31(5):983–92
Cloning, molecular characterization and expression pattern of a strawberry ripening-specific cDNA with sequence homology to pectate lyase from higher plants. Medina-Escobar N, et al. **Plant Mol Biol** 1997 Aug; 34(6):867–77
Developmental and transgenic analysis of two tomato fruit enhanced genes. Santino CG, et al. **Plant Mol Biol** 1997 Feb;33(3):405–16
Knotted1-like homeobox genes are expressed during apple tree (Malus domestica [L.] Borkh) growth and development. Watillon B, et al. **Plant Mol Biol** 1997 Mar; 33(4):757–63
Expression of ethylene biosynthetic genes in Actinidia chinensis fruit. Whittaker DJ, et al. **Plant Mol Biol** 1997 May;34(1):45–55
[The genetic polymorphism of the grape studied by RAPD analysis] Sivolap IuM, et al. **Tsitol Genet** 1996 Nov-Dec; 30(6):33–7 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Cloning and characterization of cDNAs from genes differentially expressed during the strawberry fruit ripening process by a MAST-PCR-SBDS method. Medina-Escobar N, et al. **Anal Biochem** 1997 Jun 1; 248(2):288–96
Changes in sugar, ash and minerals in four guava cultivars during ripening. el Buluk RE, et al. **Plant Foods Hum Nutr** 1996 Feb;49(2):147–54
Beta-carotene content of postharvest orange-fleshed muskmelon fruit: effect of cultivar, growing location and fruit size. Lester GE, et al. **Plant Foods Hum Nutr** 1996 Apr;49(3):191–7
Developmental and transgenic analysis of two tomato fruit enhanced genes. Santino CG, et al. **Plant Mol Biol** 1997 Feb;33(3):405–16

IMMUNOLOGY

Hipersensitivity to fruits in latex allergic patients. Monreal P, et al. **Allergol Immunopathol (Madr)** 1996 Jan-Feb; 24(1):33–5
Hypersensitivity to pollen of Olea europaea in Israel. Geller-Bernstein C, et al. **Allergy** 1996 May;51(5):356–9
Immediate hypersensitivity reaction to date. Gonzalo MA, et al. **Allergy** 1997 May;52(5):598–9
Improvement of fruit allergenic extracts for immunoblotting experiments. Martínez A, et al. **Allergy** 1997 Feb; 52(2):155–61
Evaluation of recombinant allergens Bet v 1 and Bet v 2 (profilin) by Pharmacia CAP system in patients with pollen-related allergy to birch and apple. Rossi RE, et al. **Allergy** 1996 Dec;51(12):940–5
Banana allergy in infants. Tokuyama K, et al. **Allergy** 1997 Mar;52(3):350–1
Allergenic properties of kiwi-fruit extract: cross-reactivity between kiwi-fruit and birch-pollen allergens. Voitenko V, et al. **Allergy** 1997 Feb;52(2):136–43
Oral allergy syndrome to apple after a lover's kiss. Wüthrich B. **Allergy** 1997 Feb;52(2):235–6
Cooccurrence of latex and fruit allergies. Freeman GL. **Allergy Asthma Proc** 1997 Mar-Apr;18(2):85–8 (30 ref.)
A nurse with anaphylaxis to stone fruits and latex sensitivity: potential diagnostic difficulties to consider. Weiss SJ, et al. **Ann Allergy Asthma Immunol** 1996 Dec;77(6):504–8
Crossreactivity between allergens in natural rubber latex and banana studied by immunoblot inhibition. Alenius H, et al. **Clin Exp Allergy** 1996 Mar;26(3):341–8
Identification of the allergenic components of kiwi fruit and evaluation of their cross-reactivity with timothy and birch pollens. Pastorello EA, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):601–10
Reliability of olive pollen extracts for skin prick tests [letter] Waisel Y, et al. **J Allergy Clin Immunol** 1996 Sep; 98(3):715–6
An immunoblotting analysis of cross-reactivity between melon, and plantago and grass pollens. García Ortiz JC, et al. **J Investig Allergol Clin Immunol** 1996 Nov-Dec; 6(6):378–82
Identification of allergens in apple, pear, celery, carrot and potato: cross-reactivity with pollen allergens. Ebner C, et al. **Monogr Allergy** 1996;32:73–7 (21 ref.)
Characterization of Mal d 1, the 18-kD major apple allergen, at the molecular level. Vieths S, et al. **Monogr Allergy** 1996; 32:63–72 (28 ref.)
IgE binding to a new cross-reactive structure: a 35 kDa protein in birch pollen, exotic fruit and other plant foods. Wellhausen A, et al. **Z Ernahrungswiss** 1996 Dec; 35(4):348–55

METABOLISM

Characterisation of the binding capacities and affinities of wheat bran, fruit and vegetable fibres for MeIQx, before and after fermentation. Ryden P, et al. **Cancer Lett** 1997 Mar 19;114(1–2):47–9
Flavonoids as bioactive components in apple products. van der Sluis AA, et al. **Cancer Lett** 1997 Mar 19;114(1–2):107–8
Absorption by 1-year-old children of an iron supplement given with cow's milk or juice. Abrams SA, et al. **Pediatr Res** 1996 Jan;39(1):171–5

MICROBIOLOGY

Outbreaks of Escherichia coli O157:H7 infection associated with drinking unpasteurized apple cider—October 1996. Update on emerging infections from the Centers for Disease Control and Prevention. **Ann Emerg Med** 1997 May; 29(5):645–6
Characterization of Colletotrichum gloeosporioides isolates from avocado and almond fruits with molecular and pathogenicity tests. Freeman S, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1014–20
Outbreaks of Escherichia coli O157:H7 infection and cryptosporidiosis associated with drinking unpasteurized apple cider—Connecticut and New York, October 1996. **Can Commun Dis Rep** 1997 Mar 1;23(5):37–40 **(Eng, Fre)**
Unpasteurised apple juice causes outbreak of haemolytic uraemic syndrome in North America. **Commun Dis Rep CDR Wkly** 1996 Nov 15;6(46):399
Effect of plant extracts and systemic fungicide on the pineapple fruit-rotting fungus, Ceratocystis paradoxa. Damayanti M, et al. **Cytobios** 1996;86(346):155–65
Ascomycetous yeasts associated with naturally occurring fruits in a tropical rain forest. Prada GM, et al. **Folia Microbiol (Praha)** 1997;42(1):39–46
Cloning and sequence analysis of the eburicol 14alpha-demethylase gene of the obligate biotrophic grape powdery mildew fungus. Délye C, et al. **Gene** 1997 Aug 11;195(1):29–33
Ecology of inoculated and spontaneous fermentations in Rioja (Spain) musts, examined by mitochondrial DNA restriction analysis. Gutiérrez AR, et al. **Int J Food Microbiol** 1997 May 20;36(2–3):241–5
Effect of water activity, modified atmosphere packaging and storage temperature on spore germination of moulds isolated from prunes. el Halouat A, et al. **Int J Food Microbiol** 1997 Mar 18;35(1):41–8
Influence of modified atmosphere and preservatives on the growth of Zygosaccharomyces rouxii isolated from dried fruits. el Halouat A, et al. **Int J Food Microbiol** 1996 Dec; 33(2–3):219–29
"Candidatus phytoplasma australiense," a new phytoplasma taxon associated with Australian grapevine yellows. Davis RE, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):262–9
Propionibacterium cyclohexanicum sp. nov., a new acid-tolerant omega-cyclohexyl fatty acid-containing propionibacterium isolated from spoiled orange juice. Kusano K, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):825–31
A solid phase fluorescent capillary immunoassay for the detection of Escherichia coli O157:H7 in ground beef and apple cider. Czajka J, et al. **J Appl Bacteriol** 1996 Dec; 81(6):601–7
Determination of mycotoxins produced by Fusarium isolates from banana fruits by capillary gas chromatography and high-performance liquid chromatography. Jiménez M, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):363–72
Use of ion chromatography for monitoring microbial spoilage in the fruit juice industry. Trifirò A, et al. **J Chromatogr A** 1997 May 16;770(1–2):243–52
Enumeration of bacterial and yeast colonists of apple fruits and identification of epiphytic yeasts on pear fruits in the Pacific Northwest United States. Chand-Goyal T, et al. **Microbiol Res** 1996 Dec;151(4):427–32
Fungi associated with post-harvest rot of black plum (Vitex doniana) in Nigeria. Eseigbe DA, et al. **Mycopathologia** 1996–97;136(2):109–14
An ozone-responsive region of the grapevine resveratrol synthase promoter differs from the basal pathogen-responsive sequence. Schubert R, et al. **Plant Mol Biol** 1997 Jun;34(3):417–26
[Microbiological quality of street sold fruits in San José, Costa Rica] Monge R, et al. **Arch Latinoam Nutr** 1995 Jun; 45(2):117–21 (Eng. Abstr.) **(Spa)**

PARASITOLOGY

Unjust desserts? Flemmer M, et al. **Am J Gastroenterol** 1997 Apr;92(4):716–7
An outbreak in 1996 of cyclosporiasis associated with imported raspberries. The Cyclospora Working Group [see comments] Herwaldt BL, et al. **N Engl J Med** 1997 May 29;336(22):1548–56. Comment in: N Engl J Med 1997 May 29;336(22):1597–9.
Cyclosporiasis and raspberries—lessons for the future [editorial; comment] Osterholm MT. **N Engl J Med** 1997 May 29;336(22):1597–9. Comment on: N Engl J Med 1997 May 29;336(22):1548–56.
Cyclosporiasis and raspberries [letter] Simini B. **N Engl J Med** 1997 Oct 16;337(16):1170; discussion 1171–2

PHYSIOLOGY

Stress relaxation in cherry fruit. Blahovec J. **Biorheology** 1996 Nov-Dec;33(6):451–62
Characterization of two cDNA clones for mRNAs expressed during ripening of melon (Cucumis melo L.) fruits. Aggelis A, et al. **Plant Mol Biol** 1997 Jan;33(2):313–22
Seasonal expression of a dehydrin gene in sibling deciduous and evergreen genotypes of peach (Prunus persica [L.] Batsch). Artlip TS, et al. **Plant Mol Biol** 1997 Jan; 33(1):61–70
A class IV chitinase is highly expressed in grape berries during ripening. Robinson SP, et al. **Plant Physiol** 1997 Jul;114(3):771–8
Identification and characterization of a fruit-specific, thaumatin-like protein that accumulates at very high levels in conjunction with the onset of sugar accumulation and berry softening in grapes. Tattersall DB, et al. **Plant Physiol** 1997 Jul;114(3):759–69

POISONING

Nai habarala (Alocasia cucullata) fruits; analysed for potential hydrogen cyanide [letter] Goonasekera CD, et al. **Ceylon Med J** 1997 Jun;42(2):110–1
Accidental choke-cherry poisoning: early symptoms and neurological sequelae of an unusual case of cyanide intoxication. Pentore R, et al. **Ital J Neurol Sci** 1996 Jun; 17(3):233–5

RADIATION EFFECTS

Identification of irradiated mangoes by means of ESR spectroscopy. Bustos ME, et al. **Appl Radiat Isot** 1996 Nov-Dec;47(11–12):1655–6
Use of ESR for the detection of irradiated dates (Phoenix dactylifera L.). Ghelawi MA, et al. **Appl Radiat Isot** 1996 Nov-Dec;47(11–12):1641–5

STANDARDS

Serum beta-carotene and vitamin C as biomarkers of vegetable and fruit intakes in a community-based sample of French adults. Drewnowski A, et al. **Am J Clin Nutr** 1997 Jun;65(6):1796–802
Factors affecting storability of apples in Syria. Al-Bachir M. **Plant Foods Hum Nutr** 1995 Oct;48(3):259–67

TOXICITY

Safety evaluation of wild apricot oil. Gandhi VM, et al. **Food Chem Toxicol** 1997 Jun;35(6):583–7

VIROLOGY

Complete nucleotide sequence of the genome of a severe cherry isolate of apple chlorotic leaf spot trichovirus (ACLSV). German-Retana S, et al. **Arch Virol** 1997; 142(4):833–41
Grapevine virus A: nucleotide sequence, genome organization, and relationship in the Trichovirus genus. Minafra A, et al. **Arch Virol** 1997;142(2):417–23
Grapevine berry inner necrosis, a new trichovirus: comparative studies with several known trichoviruses. Yoshikawa N, et al. **Arch Virol** 1997;142(7):1351–63
The cloning, sequence analysis, and expression in E. coli of coat protein gene of grapevine fanleaf virus Gh. Guan H, et al. **Chin J Biotechnol** 1996;12(2):73–9
The improved PAS-ELISA method for the diagnosis of the pathogen for banana mosaic heart rot disease. Huang M, et al. **Chin J Biotechnol** 1996;12(3):195–200
Two mRNAs are transcribed from banana bunchy top virus DNA-1. Beetham PR, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):229–36
Identification and molecular properties of a 306 nucleotide viroid associated with apple dimple fruit disease. Di Serio F, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2833–7
Infectious cDNA clone used to identify strawberry mild yellow edge-associated potexvirus as causal agent of the disease. Lamprecht S, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2347–53
The nucleotide sequence and genomic organization of grapevine virus B. Saldarelli P, et al. **J Gen Virol** 1996

Oct;77 (Pt 10):2645–52
A spot-PCR technique for the detection of phloem-limited grapevine viruses. La Notte P, et al. **J Virol Methods** 1997 Jun;66(1):103–8
A high sensitivity RT-PCR assay for the diagnosis of grapevine viroids in field and tissue culture samples. Wan Chow Wah YF, et al. **J Virol Methods** 1997 Jan; 63(1–2):57–69
From the Centers for Disease Control and Prevention. Hepatitis A associated with consumption of frozen strawberries—Michigan, March 1997. **JAMA** 1997 Apr 23–30;277(16):1271
Hepatitis A associated with consumption of frozen strawberries—Michigan, March 1997. **MMWR Morb Mortal Wkly Rep** 1997 Apr 4;46(13):288, 295

FRUIT FLIES see **DROSOPHILA**

FRUSEMIDE see **FUROSEMIDE**

FRUSTRATION

Jealousy, general creativity, and coping with social frustration during the menstrual cycle. Krug R, et al. **Arch Sex Behav** 1996 Apr;25(2):181–99
Infants' responses to frustrating situations: continuity and change in reactivity and regulation. Braungart-Rieker JM, et al. **Child Dev** 1996 Aug;67(4):1767–79
"Difficult patients" as family physicians perceive them. Katz RC. **Psychol Rep** 1996 Oct;79(2):539–44

FSH

see related
RECEPTORS, FSH

Relationship between gonadotropin subunit messenger ribonucleic acid levels and plasma gonadotropin concentrations in intact and orchidectomized adult rats. Winters SJ. **Biol Reprod** 1996 Oct;55(4):828–32
Structure-function relationship of recombinant follicle stimulating hormone (Puregon). de Leeuw R, et al. **Mol Hum Reprod** 1996 May;2(5):361–9 (33 ref.)
Molecular biology and biochemistry of human recombinant follicle stimulating hormone (Puregon). Olijve W, et al. **Mol Hum Reprod** 1996 May;2(5):371–82 (46 ref.)

ADMINISTRATION & DOSAGE

Circulating inhibins and activin A during GnRH-analogue down-regulation and ovarian hyperstimulation with recombinant FSH for in-vitro fertilization-embryo transfer. Lockwood GM, et al. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):741–8
A prospective, randomized study to assess the tolerance and efficacy of intramuscular and subcutaneous administration of recombinant follicle-stimulating hormone (Puregon). Out HJ, et al. **Fertil Steril** 1997 Feb;67(2):278–83
Improved controlled ovarian hyperstimulation in poor responder in vitro fertilization patients with a microdose follicle-stimulating hormone flare, growth hormone protocol. Schoolcraft W, et al. **Fertil Steril** 1997 Jan; 67(1):93–7
Chronic low-dose follicle-stimulating hormone compared with clomiphene/human menopausal gonadotropin for induction of ovulation. Yong EL, et al. **Gynecol Endocrinol** 1997 Feb;11(1):35–42
The utility of a midcycle follicle-stimulating hormone boost in addition to human chorionic gonadotropin for timing of follicle aspiration in unstimulated in vitro fertilization cycles. Lindheim SR, et al. **Gynecol Obstet Invest** 1997; 43(2):76–8
Purified urinary follicle stimulating hormone induces different hormone profiles compared with menotrophins, dependent upon the route of administration and endogenous luteinizing hormone activity. Fleming R, et al. **Hum Reprod** 1996 Sep;11(9):1854–8
Roles of follicle stimulating hormone and luteinizing hormone in controlled ovarian hyperstimulation. Hillier SG. **Hum Reprod** 1996 Nov;11 Suppl 3:113–21 (28 ref.)
Sequential step-up and step-down dose regimen: an alternative method for ovulation induction with follicle-stimulating hormone in polycystic ovarian syndrome. Hugues JN, et al. **Hum Reprod** 1996 Dec; 11(12):2581–4
Ovarian stimulation in women undergoing in-vitro fertilization and embryo transfer using recombinant human follicle stimulating hormone (Gonal-F) in non-down-regulated cycles. Strowitzki T, et al. **Hum Reprod** 1995 Dec;10(12):3097–101
Induction of superovulation in cyclic rats by administration of decreasing doses of recombinant follicle stimulating hormone (Org32489). van Cappellen WA, et al. **Hum Reprod** 1997 Feb;12(2):224–30
Recombinant follicle stimulating hormone (rFSH; Puregon) in assisted reproduction: more oocytes, more pregnancies. Results from five comparative studies. Out HJ, et al. **Hum Reprod Update** 1996 Mar-Apr;2(2):162–71 (26 ref.)
Responses of polycystic ovarian syndrome and related variants to low-dose follicle stimulating hormone. Yong EL, et al. **Int J Gynaecol Obstet** 1997 Jun;57(3):305–11
The safety and effectiveness of stepwise and low-dose administration of follicle stimulating hormone in WHO group II anovulatory infertile women: evidence from a large multicenter study in Spain. Balasch J, et al. **J Assist Reprod Genet** 1996 Aug;13(7):551–6
Induction of ovulation with low-dose gonadotropins in polycystic ovary syndrome: an analysis of 109 pregnancies in 225 women. White DM, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3821–4
Superovulation of New Zealand white rabbits by continuous infusion of follicle-stimulating hormone, using a micro-osmotic pump. Treloar AF, et al. **Lab Anim Sci** 1997 Jun;47(3):313–6
Pregnancy after treatment with three recombinant gonadotropins. Agrawal R, et al. **Lancet** 1997 Jan 4; 349(9044):29–30
[The value of recombinant gonadotropins in treatment of infertility] Breckwoldt M, et al. **Zentralbl Gynakol** 1996; 118(3):176–8 (11 ref.) **(Ger)**

ANALYSIS

Estradiol, gonadotropins, and tumor markers in ovarian cyst fluid. Reimer T, et al. **Acta Obstet Gynecol Scand** 1997 May;76(5):478–83
Development of an enzyme-immunoassay (EIA) for the measurement of follicle-stimulating-hormone (FSH) in Callitrichid primates using a monoclonal antibody against the human-FSH-beta-subunit. Rosenbusch J, et al. **Am J Primatol** 1997;41(3):179–93
Altered follicle stimulating hormone isoforms in female galactosaemia patients. Prestoz LL, et al. **Eur J Pediatr** 1997 Feb;156(2):116–20
Immunohistochemical demonstration of FSH and LH in the pituitary of the developing frog, Rana esculenta. Pinelli C, et al. **Gen Comp Endocrinol** 1996 Nov;104(2):189–96
The clinicopathological characteristics of gonadotroph cell adenoma: a study of 118 cases. Ho DM, et al. **Hum Pathol** 1997 Aug;28(8):905–11
Development of a sensitive porcine granulosa cell bioassay for follicle-stimulating hormone (FSH). Sites CK, et al. **J Assist Reprod Genet** 1996 Jul;13(6):505–10
Differential expression of c-fos in vitro by all anterior pituitary cell types during the estrous cycle: enhanced expression by luteinizing hormone but not by follicle-stimulating hormone cells. Armstrong J, et al. **J Histochem Cytochem** 1997 Jun;45(6):785–94
Bioassays of gonadotropins based on cloned receptors. Christin-Maitre S, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):151–9 (49 ref.)

ANTAGONISTS & INHIBITORS

In vitro inhibition of the biological activity of follicle-stimulating hormone by anti-peptide antisera representing the human follicle-stimulating hormone beta subunit sequence 33–53. Westhoff WE, et al. **Biol Reprod** 1997 Feb;56(2):460–8
Inhibins and activins: roles in clinical practice. Wallace EM, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):945–56 (151 ref.)
Ability of an anti-luteinizing hormone-releasing hormone vaccine to inhibit gonadotropins in postmenopausal women. Gual C, et al. **Fertil Steril** 1997 Feb;67(2):404–7
Testicular germ cell populations in the adult rat after continuous in-vivo testicular infusion of inhibin-A and activin-A. Adeeko AO, et al. **Int J Androl** 1996 Apr; 19(2):69–76
A novel role of follistatin, an activin-binding protein, in the inhibition of activin action in rat pituitary cells. Endocytotic degradation of activin and its acceleration by follistatin associated with cell-surface heparan sulfate. Hashimoto O, et al. **J Biol Chem** 1997 May 23; 272(21):13835–42
The prolactin inhibition of follicle-stimulating hormone-induced aromatase activity in cultured rat granulosa cells is in part tyrosine kinase and protein kinase-C dependent. Villanueva LA, et al. **Mol Hum Reprod** 1996 Oct;2(10):725–31
[Embryonic induction and role of activins during early amphibian development] Asashima M, et al. **Hum Cell** 1996 Dec;9(4):277–82 (15 ref.) (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Functional interaction between gonadotropin-releasing hormone and PACAP in gonadotropes and alpha T3-1 cells. McArdle CA. **Ann N Y Acad Sci** 1996 Dec 26; 805:112–20; discussion 120–1
Effects of GnRH and PACAP on gonadotropin secretion and subunit messenger RNAs. Winters SJ, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:343–52; discussion 352–4 (30 ref.)
Pituitary follistatin regulates activin-mediated production of follicle-stimulating hormone during the rat estrous cycle. Besecke LM, et al. **Endocrinology** 1997 Jul;138(7):2841–8
Neonatal hypothyroidism permanently alters follicle-stimulating hormone and luteinizing hormone production in the male rat. Kirby JD, et al. **Endocrinology** 1997 Jul;138(7):2713–21
The antiprogestins RU486 and ZK98299 affect follicle-stimulating hormone secretion differentially on estrus, but not on proestrus. Ringstrom SJ, et al. **Endocrinology** 1997 Jun;138(6):2286–90
Two proximal activating protein-1-binding sites are sufficient to stimulate transcription of the ovine follicle-stimulating hormone-beta gene. Strahl BD, et al. **Endocrinology** 1997 Jun;138(6):2621–31
"The coming of wonders" [letter; comment] Out HJ, et al. **Fertil Steril** 1997 Feb;67(2):411–3. Comment on: Fertil Steril 1996 Aug;66(2):187–201.
Genetic engineering of human FSH (Gonal-F). Howles CM. **Hum Reprod Update** 1996 Mar-Apr;2(2):172–91
Expression of biologically active beta subunit of bovine follicle-stimulating hormone in the methylotrophic yeast Pichia pastoris. Samaddar M, et al. **Protein Expr Purif** 1997 Aug;10(3):345–55

BLOOD

Endocrine profiles of male workers with exposure to trichloroethylene. Chia SE, et al. **Am J Ind Med** 1997 Sep; 32(3):217–22
Inhibin, follicle-stimulating hormone, and age as predictors of ovarian response in in vitro fertilization cycles stimulated with gonadotropin-releasing hormone agonist-gonadotropin treatment. Balasch J, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1226–30
Basal and stimulated gonadotropin levels in the perimenopause. Schmidt PJ, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):643–50
Level of nutrition modulates the dynamics of oestradiol feedback on plasma FSH in ovariectomized ewes. Adams NR, et al. **Anim Reprod Sci** 1997 May;47(1–2):59–70
Ovulation rate and the concentrations of LH, FSH, GH, prolactin and insulin in ewes infused with tryptophan, tyrosine or tyrosine plus phenylalanine during the luteal phase of the oestrous cycle. Downing JA, et al. **Anim Reprod Sci** 1997 Jan;45(4):283–97
The circulating concentrations of FSH, LH and prolactin in the oestradiol-implanted ovariectomized ewe treated with caffeine. Scaramuzzi RJ, et al. **Anim Reprod Sci** 1997 Jan;45(4):273–82
The influence of latent hyperprolactinaemia on the levels of LH, FSH, E2 and T in the midfollicular phase of the cycle. Koštál M, et al. **Arch Gynecol Obstet** 1997; 259(2):65–8
Evaluation of an immunoenzymometric assay (IEMA) using automated system for determination of luteinizing hormone and follicle stimulating hormone. Fonseca E, et al. **Arch Med Res** 1997 Spring;28(1):73–7
Changes in percentages of adenohypophysial gonadotrophs associated with the sex-specific, selective increase in serum follicle-stimulating hormone concentration in the juvenile female hamster. Woller MJ, et al. **Biol Reprod** 1996 Apr; 54(4):800–8
Characteristics of the menstrual cycle at the time of surgery for breast cancer. Holdaway IM, et al. **Br J Cancer** 1997; 75(3):413–6
Long-term effects of cigarette-smoke exposure on plasma testosterone, luteinizing hormone and follicle-stimulating hormone levels in male rats. Yardimci S, et al. **Br J Urol** 1997 Jan;79(1):66–9
Relationship of early follicular phase sera follicle stimulating hormone and luteinizing hormone levels as measured by a radioimmunoassay and an enzyme-linked immunosorbent assay to number of oocytes retrieved. Check JH, et al. **Clin Exp Obstet Gynecol** 1996;23(2):83–6
Inhibin A and inhibin B are inversely correlated to follicle-stimulating hormone, yet are discordant during the follicular phase of the rat estrous cycle, and inhibin A is expressed in a sexually dimorphic manner. Woodruff TK, et al. **Endocrinology** 1996 Dec;137(12):5463–7
Serum FSH levels in women with polycystic ovary syndrome during ovulation induction using down-regulation and urofollitropin. Fridström M, et al. **Eur J Endocrinol** 1997 May;136(5):488–92
Effects of gonadotropin-releasing hormone on bioactivity of follicle-stimulating hormone (FSH) and microstructure of FSH, luteinizing hormone and sex hormone-binding globulin in a testosterone-based contraceptive trial: evaluation of responders and non-responders. Simoni M, et al. **Eur J Endocrinol** 1996 Oct;135(4):433–9
Basal estradiol and follicle-stimulating hormone predict fecundity in women of advanced reproductive age undergoing ovulation induction therapy. Buyalos RP, et al. **Fertil Steril** 1997 Aug;68(2):272–7
Diagnosis of menopause: ratios of FSH/LH? [letter; comment] Castracane VD, et al. **Fertil Steril** 1996 Nov; 66(5):866. Comment on: Fertil Steril 1996 Jul;66(1):101–4.
Laboratory criteria for menopause in women using oral contraceptives [see comments] Creinin MD. **Fertil Steril** 1996 Jul;66(1):101–4. Comment in: Fertil Steril 1996 Nov;66(5):866.
Early prediction of ovarian multifollicular response during ovulation induction in patients with polycystic ovary syndrome. Farhi J, et al. **Fertil Steril** 1997 Mar;67(3):459–62
Follicle-stimulating hormone levels on cycle day 3 to predict ovarian response in women undergoing controlled ovarian hyperstimulation for in vitro fertilization using a flare-up protocol. Gürgan T, et al. **Fertil Steril** 1997 Sep;68(3):483–7
Limited success using the "flare" protocol in poor responders in cycles with low basal follicle-stimulating hormone levels during in vitro fertilization. Karande V, et al. **Fertil Steril** 1997 May;67(5):900–3
Intensive hormone monitoring in women with unexplained infertility: evidence for subtle abnormalities suggestive of diminished ovarian reserve. Leach RE, et al. **Fertil Steril** 1997 Sep;68(3):413–20

Correlation of reproductive aging with function in selected organ systems. Miller PB, et al. **Fertil Steril** 1997 Sep; 68(3):443–8

An elevated day three follicle-stimulating hormone:luteinizing hormone ratio (FSH:LH) in the presence of a normal day 3 FSH predicts a poor response to controlled ovarian hyperstimulation. Mukherjee T, et al. **Fertil Steril** 1996 Mar;65(3):588–93

Superior analytic characteristics of an immunometric assay for gonadotropins also provides useful clinical prediction of in vitro fertilization outcomes. Ramey JW, et al. **Fertil Steril** 1996 Mar;65(3):661–3

Developmental profile of plasma inhibin and gonadotropins from hatch to sexual maturity in male and female chickens. Johnson PA, et al. **Gen Comp Endocrinol** 1996 Apr; 102(1):56–60

Serum levels of luteinizing and follicle-stimulating hormones in normal and poor-responding patients undergoing ovarian stimulation with urofollitropin after pituitary downregulation. Fridström M, et al. **Gynecol Endocrinol** 1997 Feb;11(1):25–8

Hypogonadotropic patients with ultrasonographically detected polycystic ovaries: endocrine response to pulsatile gonadotropin-releasing hormone. Schachter M, et al. **Gynecol Endocrinol** 1996 Oct;10(5):327–35

A study to determine whether serum follicle-stimulating hormone can be a marker for ovarian hyperresponse to follicle-maturing drugs for in vitro fertilization. Check JH, et al. **Gynecol Obstet Invest** 1997;43(4):242–4

LH/FSH ratio as a predictor of ovarian hyperstimulation syndrome [letter; comment] Bódis J, et al. **Hum Reprod** 1997 Apr;12(4):869–70. Comment on: Hum Reprod 1996 Aug;11(8):1597–9.

Prolonged inhibition of normal ovarian cycles in the rat and cynomolgus monkeys following a single s.c. injection of danazol. Butterstein GM, et al. **Hum Reprod** 1997 Jul; 12(7):1409–15

Reconsideration of testicular biopsy and follicle-stimulating hormone measurement in the era of intracytoplasmic sperm injection for non-obstructive azoospermia? Chen CS, et al. **Hum Reprod** 1996 Oct;11(10):2176–9

Luteal phase oestradiol and progesterone levels are stronger predictors than follicular phase follicle stimulating hormone for the outcome of in-vitro fertilization treatment in women with tubal infertility. Csemiczky G, et al. **Hum Reprod** 1996 Nov;11(11):2396–9

Ovarian reserve test with the gonadotrophin-releasing hormone agonist buserelin: correlation with in-vitro fertilization outcome. Galtier-Dereure F, et al. **Hum Reprod** 1996 Jul;11(7):1393–8

Utility of follicle stimulating hormone (FSH), luteinizing hormone (LH), oestradiol and FSH:LH ratio in predicting reproductive age in normal women. Kim YK, et al. **Hum Reprod** 1997 Jun;12(6):1152–5

Annual patterns of luteinizing hormone, follicle stimulating hormone, testosterone and inhibin in normal men. Meriggiola MC, et al. **Hum Reprod** 1996 Feb;11(2):248–52

Relationship between serum follicle stimulating hormone in the male and standard sperm parameters, and the results of intracytoplasmic sperm injection. Novero V, et al. **Hum Reprod** 1997 Jan;12(1):59–63

An artificially induced follicle stimulating hormone surge at the time of human chorionic gonadotrophin administration in controlled ovarian stimulation cycles has no effect on cumulus expansion, fertilization rate, embryo quality and implantation rate. Vermeiden JP, et al. **Hum Reprod** 1997 Jul;12(7):1399–402

Influence of serum follicle stimulating hormone to luteinizing hormone ratio during buserelin acetate-induced pituitary desensitization on ovarian response to exogenous gonadotrophins in an in-vitro fertilization and embryo transfer programme. Yamashita T, et al. **Hum Reprod** 1996 Aug;11(8):1615–9

Does the gonadotrophic axis play a role in the pathogenesis of Sertoli-cell-only syndrome? Leifke E, et al. **Int J Androl** 1997 Feb;20(1):29–36

A study of reproductive function in patients with seminoma treated with radiotherapy and orchidectomy: (SWOG-8711). Southwest Oncology Group. Gordon W Jr, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1; 38(1):83–94

Relationship between semen quality improvement after varicocelectomy and preoperative levels of hypophyseal and gonadal hormones. Bablok L, et al. **Int Urol Nephrol** 1997;29(3):345–9

Relationship of fertility to patterns of ovarian follicular development and associated hormonal profiles in dairy cows and heifers. Cooperative Regional Research Project. **J Anim Sci** 1996 Aug;74(8):1943–52

Negative relationship between blood concentrations of follicle-stimulating hormone and testicular size in mature boars. Ford JJ, et al. **J Anim Sci** 1997 Mar;75(3):790–5

Comparison of circulating concentrations of reproductive hormones in boars of lines selected for size of testes or number of ovulations and embryonal survival to concentrations in respective control lines. Mariscal DV, et al. **J Anim Sci** 1996 Aug;74(8):1905–14

Pattern of feed intake and associated metabolic and endocrine changes differentially affect postweaning fertility in primiparous lactating sows. Zak LJ, et al. **J Anim Sci** 1997 Jan;75(1):208–16

Differences in ovarian stimulation among older and younger women with a diminished gonadal reserve. Lindheim SR, et al. **J Assist Reprod Genet** 1997 Apr;14(4):235–7

Analysis of the human zona pellucida during culture: correlation with diagnosis and the preovulatory hormonal environment. Loret De Mola JR, et al. **J Assist Reprod Genet** 1997 Jul;14(6):332–6

Twenty-four-hour profiles of luteinizing hormone, follicle-stimulating hormone, testosterone, and estradiol levels: a semilongitudinal study throughout puberty in healthy boys. Albertsson-Wikland K, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):541–9

High loading and low maintenance doses of a gonadotropin-releasing hormone antagonist effectively suppress serum luteinizing hormone, follicle-stimulating hormone, and testosterone in normal men. Behre HM, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1403–8

Homologous in vitro bioassay for follicle-stimulating hormone (FSH) reveals increased FSH biological signal during the mid- to late luteal phase of the human menstrual cycle. Christin-Maitre S, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2080–8

Specific linkages among luteinizing hormone, follicle-stimulating hormone, and testosterone release in the peripheral blood and human spermatic vein: evidence for both positive (feed-forward) and negative (feedback) within-axis regulation. Foresta C, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3040–6

Reproductive aging: accelerated ovarian follicular development associated with a monotropic follicle-stimulating hormone rise in normal older women. Klein NA, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1038–45

Changes in the isoforms of luteinizing hormone and follicle-stimulating hormone during puberty in normal children. Phillips DJ, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3103–6

A randomized, controlled trial of estradiol replacement therapy in women with hypergonadotropic amenorrhea. Taylor AE, et al. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3615–21

Normogonadotropic primary amenorrhea in a growth hormone-deficient woman with ectopic posterior pituitary: gonadotropin pulsatility and follicle-stimulating hormone bioactivity. Crottaz B, et al. **J Endocrinol Invest** 1996 Jan; 19(1):48–53

Serum estradiol and gonadotropins level in postmenopausal women with or without hormone replacement. Limpaphayom K, et al. **J Med Assoc Thai** 1997 Mar; 80(3):147–52

Basal follicle--stimulating hormone levels on day 3 of previous cycle are predictive of in vitro fertilization outcome. Pruksananonda K, et al. **J Med Assoc Thai** 1996 Jun;79(6):365–9

Circulating FSH isoform patterns during recurrent increases in FSH throughout the oestrous cycle of heifers. Cooke DJ, et al. **J Reprod Fertil** 1997 Jul;110(2):339–45

Relationships between FSH and ovarian follicular waves during the last six months of pregnancy in cattle. Ginther OJ, et al. **J Reprod Fertil** 1996 Nov;108(2):271–9

The functionality of the human vomeronasal organ (VNO): evidence for steroid receptors. Berliner DL, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):259–65

Does concurrent acute ethanol ingestion during omeprazole therapy affect pituitary gonadal axis in male subjects? Mokshagundam SL, et al. **J Toxicol Clin Toxicol** 1997; 35(1):55–61

Testis biopsies frequently demonstrate sperm in men with azoospermia and significantly elevated follicle-stimulating hormone levels. Kim ED, et al. **J Urol** 1997 Jan; 157(1):144–6

Re: Early and late long-term effects of vasectomy on serum testosterone, dihydrotestosterone, luteinizing hormone and follicle-stimulating hormone levels [letter; comment] Kliesch S, et al. **J Urol** 1996 Nov;156(5):1784–5. Comment on: J Urol 1995 Dec;154(6):2065–9.

Endocrine analysis of childhood monorchism. Palmer LS, et al. **J Urol** 1997 Aug;158(2):594–6

Effects of steroid 5alpha-reductase inhibitor ONO-9302 and anti-androgen allylestrenol on the prostatic growth, and plasma and prostatic hormone levels in rats. Yasuda N, et al. **Jpn J Pharmacol** 1997 Jul;74(3):243–52

Difference of LH and FSH secretory characteristics and degree of concordance between postmenopausal and aging women. Genazzani AD, et al. **Maturitas** 1997 Mar; 26(2):133–8

Hormonal, syndromal and EEG mapping studies in menopausal syndrome patients with and without depression as compared with controls. Saletu B, et al. **Maturitas** 1996 Feb;23(1):91–105

Longitudinal changes in testosterone, luteinizing hormone, and follicle-stimulating hormone in healthy older men. Morley JE, et al. **Metabolism** 1997 Apr;46(4):410–3

Heterogeneity of plasma gonadotropins. Consequences on immunological properties of LH. Roger M, et al. **Nucl Med Biol** 1994 Apr;21(3):349–57 (30 ref.)

A new approach in the evaluation of gonadotropins for the diagnosis of polycystic ovary syndrome. Manieri C, et al. **Panminerva Med** 1995 Sep;37(3):115–8

Symptoms at the menopausal and premenopausal years: their relationship with insulin, glucose, cortisol, FSH, prolactin, obesity and attitudes towards sexuality. Huerta R, et al. **Psychoneuroendocrinology** 1995;20(8):851–64

Relationships between follicle-stimulating hormone, follicle growth and ovulation rate in sheep. Fry RC, et al. **Reprod Fertil Dev** 1996;8(2):279–86

Luteinizing hormone, follicle-stimulating hormone, testosterone and dihydrotestosterone during testicular descent in the pig fetus. Visser JH, et al. **Reprod Fertil Dev** 1996;8(7):1115–20

Ultrasonic observations on the turnover of ovarian follicular cysts and associated changes of plasma LH, FSH, progesterone and oestradiol-17 beta in cows. Yoshioka K, et al. **Res Vet Sci** 1996 Nov;61(3):240–4

Effects of cyclosporine on circulating levels of prolactin, LH, FSH, TSH and GH in chronic hyperprolactinemic male rats. Lafuente A, et al. **Rev Esp Fisiol** 1996 Sep;52(3):161–6

Ovarian morphology as a predictor of hormonal values in polycystic ovary syndrome. van der Westhuizen S, et al. **Ultrasound Obstet Gynecol** 1996 May;7(5):335–41

[Hypergonadotropic secondary amenorrhea: clinical analysis of 126 cases] Lin J, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 May;31(5):278–82 (Eng. Abstr.) **(Chi)**

[Recovery of ovarian function after radiation-induced menopause. Does follicle-stimulating hormone (FSH) have a definitive prognostic value?] Letur-Könirsch H, et al. **C R Acad Sci III** 1996 Oct;319(10):907–12 (Eng. Abstr.) **(Fre)**

[Prognostic value of high FSH concentrations] Galtier-Dereure F, et al. **Contracept Fertil Sex** 1996 Sep; 24(9):635–8 (Eng. Abstr.) **(Fre)**

[Ovarian stimulation using a protocol of low dose agonist in patients with an elevated basal FSH] Olivennes F, et al. **Contracept Fertil Sex** 1996 Dec;24(12):912–6 (Eng. Abstr.) **(Fre)**

[Prognostic role of age and base hormonal levels in infertility treatment] Rongières-Bertrand C, et al. **Contracept Fertil Sex** 1997 Mar;25(3):202–5 (23 ref.) **(Fre)**

[Gonadotropin-releasing hormone (GnRH) in selecting patients for varicocelectomy] Segenreich E, et al. **Harefuah** 1997 Mar 2;132(5):330–2, 383 (Eng. Abstr.) **(Heb)**

[Sex and gonadotropic hormones in the blood in joint diseases in miners] Siniachenko OV, et al. **Lik Sprava** 1996 Jul-Sep; (7-9):92–5 (Eng. Abstr.) **(Rus)**

[Levels of progesterone, estrogen, FSH and LH in galactorrhea of unknown etiology] Radojčić L, et al. **Vojnosanit Pregl** 1997 Mar-Apr;54(2):129–32 (Eng. Abstr.) **(Scr)**

CHEMISTRY

A synthetic peptide corresponding to amino acid residues 34 to 37 of human follicle-stimulating hormone beta-subunit accelerates the onset of puberty in male and female mice. Grasso P, et al. **Endocrinology** 1997 Oct; 138(10):4215–9

Structural characterisation of human recombinant glycohormones follitropin, lutropin and choriogonadotropin expressed in Chinese hamster ovary cells. Amoresano A, et al. **Eur J Biochem** 1996 Dec 15; 242(3):608–18

Complete amino acid sequences of follitropin and lutropin in the ostrich, Struthio camelus. Koide Y, et al. **Eur J Biochem** 1996 Aug 15;240(1):262–7

Effects of gonadotropin-releasing hormone on bioactivity of follicle-stimulating hormone (FSH) and microstructure of FSH, luteinizing hormone and sex hormone-binding globulin in a testosterone-based contraceptive trial: evaluation of responders and non-responders. Simoni M, et al. **Eur J Endocrinol** 1996 Oct;135(4):433–9

Human follitropin heterodimerization and receptor binding structural motifs: identification and analysis by a combination of synthetic peptide and mutagenesis approaches. Dias JA. **Mol Cell Endocrinol** 1996 Dec 20; 125(1-2):45–54 (74 ref.)

Structural and functional characterisation of hFSH and hLH isoforms. Stanton PG, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1-2):133–41 (31 ref.)

Internal carbohydrate complexity of the oligosaccharide chains of recombinant human follicle stimulating hormone (Puregon, Org 32489): a comparison with Metrodin and Metrodin-HP. Harris SD, et al. **Mol Hum Reprod** 1996 Oct;2(10):807–11

Studies on the relative in-vitro biological potency of the naturally-occurring isoforms of intrapituitary follicle stimulating hormone. Zambrano E, et al. **Mol Hum Reprod** 1996 Aug;2(8):563–71

DEFICIENCY

Follicular development and oocyte maturation in hypogonadotrophic women employing recombinant follicle-stimulating hormone: the role of oestradiol. Fauser BC. **Hum Reprod Update** 1997 Mar-Apr;3(2):101–8 (57 ref.)

Isolated deficiency of follicle-stimulating hormone re-revisited [letter] Matthews C, et al. **N Engl J Med** 1997 Aug 28;337(9):642

GENETICS

Effects of continuous inhibin administration on gonadotropin secretion and subunit gene expression in immature and adult male rats. Winters SJ, et al. **Biol Reprod** 1996 Dec; 55(6):1377–82

Pituitary relationship of gonadotropins and messenger ribonucleic acid for gonadotropin subunits in white composite and Meishan boars. Zanella EL, et al. **Biol Reprod** 1996 Jan;54(1):154–9

Gonadotropin–releasing hormone regulates follicle–stimulating hormone–beta gene expression through an activin/follistatin autocrine or paracrine loop. Besecke LM, et al. **Endocrinology** 1996 Sep;137(9):3667–73

Differential effects of gonadotropin–releasing hormone (GnRH) pulse frequency on gonadotropin subunit and GnRH receptor messenger ribonucleic acid levels in vitro. Kaiser UB, et al. **Endocrinology** 1997 Mar;138(3):1224–31

Corticosterone selectively increases follicle–stimulating hormone beta–subunit messenger ribonucleic acid in primary anterior pituitary cell culture without affecting its half–life. Kilen SM, et al. **Endocrinology** 1996 Sep; 137(9):3802–7

Transcriptional repression of the ovine follicle–stimulating hormone–beta gene by 17 beta–estradiol. Miller CD, et al. **Endocrinology** 1996 Aug;137(8):3437–46

Two proximal activating protein–1–binding sites are sufficient to stimulate transcription of the ovine follicle–stimulating hormone–beta gene. Strahl BD, et al. **Endocrinology** 1997 Jun;138(6):2621–31

Evidence that pituitary adenylate cyclase activating polypeptide suppresses follicle–stimulating hormone–beta messenger ribonucleic acid levels by stimulating follistatin gene transcription. Winters SJ, et al. **Endocrinology** 1997 Oct;138(10):4324–9

Expression of GH, TSH beta, LH beta and FSH beta genes during fetal pituitary development in the pig. Ma E, et al. **Exp Clin Endocrinol Diabetes** 1996;104(6):464–72

Recombinant gonadotrophins: an introduction. Eshkol A. **Hum Reprod** 1996 Sep;11 Suppl 1:89–94; discussion 117–9

Clinical assessment of human gonadotrophins produced by recombinant DNA technology. Loumaye E, et al. **Hum Reprod** 1996 Sep;11 Suppl 1:95–107; discussion 117–9 (53 ref.)

Physicochemical characterization of recombinant human follicle stimulating hormone. Siebold B. **Hum Reprod** 1996 Sep;11 Suppl 1:109–15; discussion 117–9

Substitution of the seat–belt region of the thyroid–stimulating hormone (TSH) beta–subunit with the corresponding regions of choriogonadotropin or follitropin confers luteotropic but not follitropic activity to chimeric TSH. Grossmann M, et al. **J Biol Chem** 1997 Jun 13; 272(24):15532–40

Pituitary and ovarian expression of the endogenous follicle–stimulating hormone (FSH) subunit genes and an FSH beta–subunit promoter–driven herpes simplex virus thymidine kinase gene in transgenic mice; specific partial ablation of FSH–producing cells by antiherpes treatment. Markkula M, et al. **J Endocrinol** 1996 Aug;150(2):265–73

Ontogeny of growth hormone and LH beta–, FSH beta– and alpha–subunit mRNA levels in the porcine fetal and neonatal anterior pituitary. Granz S, et al. **J Neuroendocrinol** 1997 Jun;9(6):439–49

Inherited disorders of the gonadotropin hormones. Jameson JL. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):143–9 (32 ref.)

Expression of biologically active fusion genes encoding the common alpha subunit and either the CG beta or FSH beta subunits: role of a linker sequence. Sugahara T, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):71–7

Delayed puberty and hypogonadism caused by mutations in the follicle–stimulating hormone beta–subunit gene. Layman LC, et al. **N Engl J Med** 1997 Aug 28; 337(9):607–11

Isolated deficiency of follicle–stimulating hormone re–revisited [letter] Matthews C, et al. **N Engl J Med** 1997 Aug 28;337(9):642

IMMUNOLOGY

Use of recombinant human follicle–stimulating hormone for in vitro fertilization–embryo transfer after severe systemic immunoglobulin E–mediated reaction to urofollitropin. Phipps WR, et al. **Fertil Steril** 1996 Jul;66(1):148–50

Responsiveness of human male volunteers to immunization with ovine follicle stimulating hormone vaccine: results of a pilot study. Moudgal NR, et al. **Hum Reprod** 1997 Mar; 12(3):457–63

Identification of bioneutralization epitopes of human follicle stimulating hormone in the regions 31–52 and 66–75 of its beta–subunit. Lal D, et al. **J Reprod Immunol** 1997 Apr; 33(1):1–14

Detection of epitopes on follicle–stimulating hormone and FSH–antiserum–induced suppression of bioactivity of follicle–stimulating hormone and luteinizing hormone. Westhoff WE, et al. **J Reprod Immunol** 1996 May; 30(2–3):133–49

Studies on the delineation of the hormone–specific antigenic determinants of human follicle–stimulating hormone. Lal D, et al. **Pept Res** 1996 Jul–Aug;9(4):195–202

Precise determination of TSH receptor antibody activity in serum containing bovine TSH (bTSH) binding antibody by absorption using denatured bTSH or sheep FSH. Inui T, et al. **Thyroid** 1996 Aug;6(4):295–9

ISOLATION & PURIFICATION

Follicle–stimulating hormone in the brushtail possum (Trichosurus vulpecula): purification, characterization, and radioimmunoassay. Moore LG, et al. **Gen Comp Endocrinol** 1997 Apr;106(1):30–8

Recombinant rat follicle–stimulating hormone; production by Chinese hamster ovary cells, purification and functional characterization. Hakola K, et al. **Mol Cell Endocrinol** 1997 Mar 14;127(1):59–69

METABOLISM

Neuroendocrinology of the polycystic ovary syndrome. Soule SG. **Baillieres Clin Endocrinol Metab** 1996 Apr; 10(2):205–19 (59 ref.)

Direct actions of the luteinizing hormone–releasing hormone agonist, deslorelin, on anterior pituitary contents of luteinizing hormone (LH) and follicle–stimulating hormone (FSH), LH and FSH subunit messenger ribonucleic acid, and plasma concentrations of LH and FSH in castrated male cattle. Aspden WJ, et al. **Biol Reprod** 1996 Aug; 55(2):386–92

Localization and quantification of binding sites for follicle–stimulating hormone, luteinizing hormone, growth hormone, and insulin–like growth factor I in sheep ovarian follicles. Eckery DC, et al. **Biol Reprod** 1997 Sep; 57(3):507–13

Pituitary relationship of gonadotropins and messenger ribonucleic acid for gonadotropin subunits in white composite and Meishan boars. Zanella EL, et al. **Biol Reprod** 1996 Jan;54(1):154–9

Differential effects of the N–methyl–D–aspartate and non–N–methyl–D–aspartate receptors of the excitatory amino acids system on LH and FSH secretion. Its effects on the hypothalamic luteinizing hormone releasing hormone during maturation in male rats. Carbone S, et al. **Brain Res** 1996 Jan 29;707(2):139–45

FSH isoforms: bio and immuno–activities in post–menopausal and normal menstruating women. Creus S, et al. **Clin Endocrinol (Oxf)** 1996 Feb;44(2):181–9

Site–directed mutagenesis of recombinant equine chorionic gonadotropin/luteinizing hormone: differential role of oligosaccharides in luteinizing hormone– and follicle–stimulating hormone–like activities. Min KS, et al. **Endocr J** 1996 Oct;43(5):585–93

Differential effects of inhibin on gonadotropin stores and gonadotropin–releasing hormone binding to pituitary cells from cycling female rats. Childs GV, et al. **Endocrinology** 1997 Apr;138(4):1577–84

The positive feedback action of estrogen mobilizes LH–containing, but not FSH–containing secretory granules in ovine gonadotropes. Thomas SG, et al. **Endocrinology** 1997 Mar;138(3):1347–50

Effect of gonadotropin–releasing hormone (GnRH) pulse frequency on serum and pituitary concentrations of luteinizing hormone and follicle–stimulating hormone, GnRH receptors, and messenger ribonucleic acid for gonadotropin subunits in cows. Vizcarra JA, et al. **Endocrinology** 1997 Feb;138(2):594–601

Sequence and chromosomal location of a human homologue of LRPR1, an FSH primary response gene. Roberts RG, et al. **Genomics** 1996 Oct 1;37(1):122–4

Hormone synthesis and responsiveness of spontaneous granulosa cell tumors in (SWR x SWXJ–9) F1 mice. Gocze PM, et al. **Gynecol Oncol** 1997 Apr;65(1):143–8

The significance of elevated early follicular–phase follicle stimulating hormone (FSH) levels: observations in unstimulated in vitro fertilization cycles. Lindheim SR, et al. **J Assist Reprod Genet** 1996 Jan;13(1):49–52

Hyaluronan synthesis by mouse cumulus cells is regulated by interactions between follicle–stimulating hormone (or epidermal growth factor) and a soluble oocyte factor (or transforming growth factor beta1). Tirone E, et al. **J Biol Chem** 1997 Feb 21;272(8):4787–94

Immunohistochemical localization of gonadotropin and gonadal steroid receptors in human pineal glands [see comments] Luboshitzky R, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):977–81. Comment in: J Clin Endocrinol Metab 1997 Aug;82(8):2756–7.

A gonadotroph adenoma with a high proportion of basic FSH isohormones by chromatofocusing [letter] Pigny P, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2407–8

Expression of horse and donkey LH in COS–7 cells: evidence for low FSH activity in donkey LH compared with horse LH. Chopineau M, et al. **J Endocrinol** 1997 Mar; 152(3):371–7

Effect of CRH on the preovulatory LH and FSH surge in the cyclic rat: a role for arginine vasopressin? Roozendaal MM, et al. **J Neuroendocrinol** 1996 Oct;8(10):765–70

Human follitropin heterodimerization and receptor binding structural motifs: identification and analysis by a combination of synthetic peptide and mutagenesis approaches. Dias JA. **Mol Cell Endocrinol** 1996 Dec 20; 125(1–2):45–54 (74 ref.)

Induction of promiscuous G protein coupling of the follicle–stimulating hormone (FSH) receptor: a novel mechanism for transducing pleiotropic actions of FSH isoforms. Arey BJ, et al. **Mol Endocrinol** 1997 May; 11(5):517–26

Transcriptional repression of the alpha–subunit gene by androgen receptor occurs independently of DNA binding but requires the DNA–binding and ligand–binding domains of the receptor. Heckert LL, et al. **Mol Endocrinol** 1997 Sep;11(10):1497–506

Immunological and biological activities of pituitary FSH isoforms in prepubertal male rats: effect of antiandrogens. Rulli SB, et al. **Neuroendocrinology** 1996 Jun;63(6):514–21

[Family of inhibins and activins: from endocrine to paracrine action] Pigny P, et al. **Ann Endocrinol (Paris)** 1996; 57(5):385–94 (82 ref.) (Eng. Abstr.) **(Fre)**

[Effect of superior cervical sympathetic ganglionectomy on FSH, LH and GH cells of hypophyseal gland in female rats: a quantitative immunohistochemical study] Tan Y, et al. **Masui** 1996 Oct;45(10):1223–34 (Eng. Abstr.) **(Jpn)**

PHARMACOKINETICS

Clinical profiling of recombinant follicle stimulating hormone (rFSH; Puregon): relationship between serum FSH and efficacy. Mannaerts BM, et al. **Hum Reprod Update** 1996 Mar–Apr;2(2):153–61 (23 ref.)

Enhancement of FSH bioactivity in vivo using site–specific antisera. Ferasin L, et al. **J Endocrinol** 1997 Mar; 152(3):355–63

Intratracheal delivery of peptide and protein agents: absorption from solution and dry powder by rat lung. Komada F, et al. **J Pharm Sci** 1994 Jun;83(6):863–7

Pharmacokinetics of radiolabelled buffalo follicle–stimulating hormone (125I–buFSH) in female buffalo calves (Bubalus bubalis). Prakash N, et al. **J Vet Pharmacol Ther** 1996 Apr; 19(2):158–60

PHARMACOLOGY

Effects of pure human follicle–stimulating hormone (pFSH) on sperm quality correlate with the hypophyseal response to gonadotrophin–releasing hormone (GnRH). Glander HJ, et al. **Andrologia** 1997 Jan–Feb;29(1):23–8

Superovulation in llamas (Lama glama) with pFSH and equine chorionic gonadotrophin used individually or in combination. Correa JE, et al. **Anim Reprod Sci** 1997 Apr; 46(3–4):289–96

Some effects of adding p–LH in defined amounts to purified p–FSH to modify FSH/LH ratios during the superovulatory treatment of anestrous ewes. D'Alessandro A, et al. **Anim Reprod Sci** 1997 May;47(1–2):91–8

Superovulation in cattle: effect of FSH type and method of administration on follicular growth, ovulatory response and endocrine patterns. Kelly P, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):1–14

Temporal aspects of ovarian follicular growth and steroidogenesis following exogenous follicle–stimulating hormone in Angus heifers. Kemper Green CN, et al. **Anim Reprod Sci** 1996 Dec 16;45(3):157–76

The response of bovine granulosa cells to different gonadotrophins in culture. Kuran M, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):1–12

Sperm characteristics and hormonal profile before and after treatment with follicle–stimulating hormone in infertile patients. Merino G, et al. **Arch Androl** 1996 Nov–Dec; 37(3):197–200

Ovarian response to purified FSH in infertile women with long–standing hypogonadotrophic hypogonadism. Fox R, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):92–4

Follicle–stimulating hormone activates a cAMP–dependent chloride conductance in TM4 Sertoli cells. Jungwirth A, et al. **Biochem Biophys Res Commun** 1997 Apr 7; 233(1):203–6

Follitropin signal transduction: alternative splicing of the FSH receptor gene produces a dominant negative form of receptor which inhibits hormone action. Sairam MR, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):717–22

Ovarian activin receptor subtype and follistatin gene expression in rats: reciprocal regulation by gonadotropins. Aloi JA, et al. **Biol Reprod** 1997 Jun;56(6):1565–9

Ovarian expression, cellular localization, and hormonal regulation of rat secretory phospholipase A2: increased expression by interleukin–1 and by gonadotropins. Ben–Shlomo I, et al. **Biol Reprod** 1997 Aug;57(2):217–25

Activation of mitogen–activated protein kinases by gonadotropins and cyclic adenosine 5'–monophosphates in porcine granulosa cells. Cameron MR, et al. **Biol Reprod** 1996 Jul;55(1):111–9

Transcriptional regulation of sertoli cell differentiation by follicle–stimulating hormone at the level of the c–fos and transferrin promoters. Chaudhary J, et al. **Biol Reprod** 1996 Mar;54(3):692–9

Insulin–like growth factor–I–mediated amplification of follicle–stimulating hormone–supported progesterone accumulation by cultured rat granulosa cells: enhancement of steroidogenic enzyme activity and expression. deMoura MD, et al. **Biol Reprod** 1997 Apr;56(4):946–53

Follicle–stimulating hormone stimulates circulating gonadotropin surge–attenuating/inhibiting factor bioactivity in cows. Fowler PA, et al. **Biol Reprod** 1997 Aug;57(2):278–85

Development of a long–term bovine granulosa cell culture system: induction and maintenance of estradiol production, response to follicle–stimulating hormone, and morphological characteristics. Gutiérrez CG, et al. **Biol Reprod** 1997 Mar;56(3):608–16

Effects of gonadotropin treatment and withdrawal on follicular growth, cell proliferation, and atresia in ewes. Jablonka–Shariff A, et al. **Biol Reprod** 1996 Sep; 55(3):693–702

Granulosa cell apoptosis, aromatase activity, cyclic adenosine 3',5'–monophosphate response to gonadotropins, and follicular fluid steroid levels during spontaneous and

induced follicular atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):830–6

Interactions between follicle–stimulating hormone and growth factors in regulation of deoxyribonucleic acid synthesis in bovine granulosa cells. Khamsi F, et al. **Biol Reprod** 1997 Sep;57(3):684–8

Gonadotropins, serum, and amino acids alter nuclear maturation, cumulus expansion, and oocyte morphology in hamster cumulus–oocyte complexes in vitro [published erratum appears in Biol Reprod 1997 Jul;57(1):214] Kito S, et al. **Biol Reprod** 1997 May;56(5):1281–9

Influence of the luteinizing hormone–releasing hormone agonist, deslorelin, on patterns of estradiol–17 beta and luteinizing hormone secretion, ovarian follicular responses to superstimulation with follicle–stimulating hormone, and recovery and in vitro development of oocytes in heifer calves. Maclellan LJ, et al. **Biol Reprod** 1997 Apr; 56(4):878–84

Follicle–stimulating hormone (FSH) regulates the expression of FSH receptor messenger ribonucleic acid in cultured Sertoli cells and in hypophysectomized rat testis. Maguire SM, et al. **Biol Reprod** 1997 May;56(5):1106–11

Neonatal exposure of rats to recombinant follicle stimulating hormone increases adult Sertoli and spermatogenic cell numbers. Meachem SJ, et al. **Biol Reprod** 1996 Jan; 54(1):36–44

Follicle–stimulating hormone and intracellular second messengers regulate steroidogenic acute regulatory protein messenger ribonucleic acid in luteinized porcine granulosa cells. Pescador N, et al. **Biol Reprod** 1997 Sep;57(3):660–8

Rat Sertoli cell calcium response to basement membrane and follicle–stimulating hormone. Ravindranath N, et al. **Biol Reprod** 1996 Jan;54(1):130–7

Duration of estrogen exposure prior to follicle–stimulating hormone stimulation is critical to granulosa cell growth and differentiation in rats. Reilly CM, et al. **Biol Reprod** 1996 Jun;54(6):1336–42

Immunoneutralization of transforming growth factor alpha present in bovine follicular fluid prevents the suppression of the follicle–stimulating hormone–induced production of estradiol by bovine granulosa cells cultured in vitro. Rouillier P, et al. **Biol Reprod** 1997 Aug;57(2):341–6

Discriminative analysis of rat Sertoli and peritubular cells and their proliferation in vitro: evidence for follicle–stimulating hormone–mediated contact inhibition of Sertoli cell mitosis. Schlatt S, et al. **Biol Reprod** 1996 Aug;55(2):227–35

Insulin–like growth factor–I, a component of serum that enables porcine cumulus cells to expand in response to follicle–stimulating hormone in vitro. Singh B, et al. **Biol Reprod** 1997 Jun;56(6):1370–5

Effects of FSH on serum immunoreactive inhibin levels in the luteal phase of the menstrual cycle. Burger H, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):431–4

Ovarian stimulation for assisted reproduction. Meldrum DR. **Curr Opin Obstet Gynecol** 1996 Jun;8(3):166–70 (33 ref.)

Effect of gonadotropin treatment on size, number, and cell proliferation of antral follicles in cows. Fricke PM, et al. **Domest Anim Endocrinol** 1997 May;14(3):171–80

Growth of differentiation: determination by FSH of the action of insulin–like growth factor–I in cultured rat granulosa cells. Kanzaki M, et al. **Endocr J** 1996 Feb; 43(1):15–23

Modulation of FSH receptor phosphorylation correlates with hormone–induced coupling to the adenylate cyclase system. Selvaraj N, et al. **Endocrine** 1997 Apr;6(2):179–85

Regulation of porcine granulosa cell steroidogenic acute regulatory protein (StAR) by insulin–like growth factor I: synergism with follicle–stimulating hormone or protein kinase A agonist. Balasubramanian K, et al. **Endocrinology** 1997 Jan;138(1):433–9

Hormone induction of ascorbic acid transport in immature granulosa cells. Behrman HR, et al. **Endocrinology** 1996 Oct;137(10):4316–21

In vivo effects of follicle–stimulating hormone–related synthetic peptides on the mouse estrous cycle. Grasso P, et al. **Endocrinology** 1996 Dec;137(12):5370–5

Estrogens potentiate the stimulatory effects of follicle–stimulating hormone on N–cadherin messenger ribonucleic acid levels in cultured mouse Sertoli cells. MacCalman CD, et al. **Endocrinology** 1997 Jan;138(1):41–8

Preantral ovarian follicles in serum–free culture: suppression of apoptosis after activation of the cyclic guanosine 3',5'–monophosphate pathway and stimulation of growth and differentiation by follicle–stimulating hormone. McGee E, et al. **Endocrinology** 1997 Jun;138(6):2417–24

Gonadotropins induce rapid phosphorylation of the 3',5'–cyclic adenosine monophosphate response element binding protein in ovarian granulosa cells. Mukherjee A, et al. **Endocrinology** 1996 Aug;137(8):3234–45

Induction of guanosine triphosphate–cyclohydrolase by follicle–stimulating hormone enhances interleukin–1 beta–stimulated nitric oxide synthase activity in granulosa cells. Tabraue C, et al. **Endocrinology** 1997 Jan;138(1):162–8

Direct intraovarian effects of leptin: impairment of the synergistic action of insulin–like growth factor–I on follicle–stimulating hormone–dependent estradiol–17 beta production by rat ovarian granulosa cells. Zachow RJ, et al. **Endocrinology** 1997 Feb;138(2):847–50

Recombinant human gonadotropins stimulate steroid and inhibin production in human granulosa cells. Bergh C, et al. **Eur J Endocrinol** 1997 Jun;136(6):617–23

Effects of cyproterone acetate on FSH and testosterone influenced spermatogenesis, steroidogenesis and epididymis in the Indian wall lizard, Hemidactylus flaviviridis (Ruppell). Rai U, et al. **Eur J Morphol** 1995 Nov; 33(5):443–55

Growth hormone enhances estradiol production follicle–stimulating hormone–induced in the early stage of the follicular maturation. Lanzone A, et al. **Fertil Steril** 1996 Dec;66(6):948–53

Proliferative effect in vitro of follicle–stimulating hormone on the left ovary of the chick embryo. Velázquez PN, et al. **Gen Comp Endocrinol** 1997 Jan;105(1):40–9

Changes in pituitary response to gonadotropin–releasing hormone following bilateral ovariectomy in women treated with follicle–stimulating hormone. Messinis IE, et al. **Gynecol Endocrinol** 1996 Dec;10(6):383–90

Assessment of the need for follicle stimulating hormone in early preantral mouse follicle culture in vitro. Cortvrindt R, et al. **Hum Reprod** 1997 Apr;12(4):759–68

Nuclear maturity and oocyte morphology after stimulation with highly purified follicle stimulating hormone compared to human menopausal gonadotrophin. Imthurn B, et al. **Hum Reprod** 1996 Nov;11(11):2387–91

Granulosa cells from follicle stimulating hormone–primed monkeys enhance the development competence of in–vitro–matured oocytes from non–stimulated rhesus monkeys. Schramm RD, et al. **Hum Reprod** 1996 Aug; 11(8):1698–702

Follicular development and oocyte maturation in hypogonadotrophic women employing recombinant follicle–stimulating hormone: the role of oestradiol. Fauser BC. **Hum Reprod Update** 1997 Mar–Apr;3(2):101–8 (57 ref.)

The effects of gonadotropin–releasing hormone immunization and recombinant follicle–stimulating hormone on the Leydig cell and macrophage populations of the adult rat testis. Duckett RJ, et al. **J Androl** 1997 Jul–Aug; 18(4):417–23

The effects of recombinant FSH on testosterone–induced spermatogenesis in gonadotrophin–deficient (hpg) mice. Singh J, et al. **J Androl** 1996 Jul–Aug;17(4):382–93

Follicle–stimulating hormone–induced estradiol and progesterone production by bovine antral and mural granulosa cells cultured in vitro in a completely defined medium. Rouillier P, et al. **J Anim Sci** 1996 Dec; 74(12):3012–9

Follicle stimulating hormone effects on immature human oocytes: in vitro maturation and hormone production. Durinzi KL, et al. **J Assist Reprod Genet** 1997 Apr; 14(4):199–204

Follicle–stimulating hormone and luteinizing hormone/chorionic gonadotropin stimulation of vascular endothelial growth factor production by macaque granulosa cells from pre– and periovulatory follicles. Christenson LK, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2135–42

Triiodothyronine and follicle–stimulating hormone, alone and additively together, stimulate production of the tissue inhibitor of metalloproteinases–1 in cultured human luteinized granulosa cells. Goldman S, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1869–73

Effect of the protein phosphatase inhibitor okadaic acid on FSH–induced granulosa cell steroidogenesis. González Reyes J, et al. **J Endocrinol** 1997 Jan;152(1):131–9

Neonatal administration of FSH increases Sertoli cell numbers and spermatogenesis in gonadotropin–deficient (hpg) mice. Singh J, et al. **J Endocrinol** 1996 Oct; 151(1):37–48

Interrelationships between follicle stimulating hormone and the growth hormone—insulin–like growth factor—IGF–binding proteins axes in human granulosa cells in culture. Barreca A, et al. **J Endocrinol Invest** 1996 Jan;19(1):35–42

The influence of FSH, LH and testosterone on steroidsecretion by two subpopulations of porcine granulosa cells. Duda M. **J Physiol Pharmacol** 1997 Mar; 48(1):89–96

Modulation of the effects of FSH, androstenedione, epidermal growth factor (EGF) and insulin–like growth factor I (IGF–I) on bovine granulosa cells by GCIF, a growth–inhibitory factor of low molecular mass from bovine follicular fluid. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):193–7

Significance of oestradiol for follicular development in hypogonadotrophic immature rats treated with FSH and hCG. Uilenbroek JT, et al. **J Reprod Fertil** 1997 Jul; 110(2):231–6

Characterization and hormonal regulation of granulosa cell–derived insulin–like growth factor binding protein–4. Choi D, et al. **J Soc Gynecol Investig** 1996 May–Jun; 3(3):145–51

Use of highly purified porcine FSH preparation for superovulation in Japanese black cattle. Sugano M, et al. **J Vet Med Sci** 1997 Mar;59(3):223–5

Differential responses of post–natal rat ovarian cells to FSH and activin. Drummond AE, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):21–32

Activation of FSH–responsive adenylate cyclase by staurosporine: role for protein phosphorylation in gonadotropin receptor desensitization. Keren–Tal I, et al. **Mol Cell Endocrinol** 1996 Jan 15;116(1):39–48

Fourier analysis of differential light scattering for the quantitation of FSH response associated with structural changes in immortalized granulosa cells. Schiffer Z, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1–2):145–53

Hormonal modulation of riboflavin carrier protein secretion by immature rat Sertoli cells in culture. Subramanian S, et al. **Mol Cell Endocrinol** 1996 Jun 18;120(1):41–50

Cell shape change reveals the cyclic AMP–mediated action of follicle stimulating hormone, human chorionic gonadotrophin and vasoactive intestinal peptide in primary cultured human granulosa–lutein cells. Furger C, et al. **Mol Hum Reprod** 1996 Apr;2(4):251–7

Gonadotrophin–releasing hormone and triptorelin inhibit the follicle stimulating hormone–induced response in human primary cultured granulosa–lutein cells. Furger C, et al. **Mol Hum Reprod** 1996 Apr;2(4):259–64

Action of recombinant follicle stimulating hormone in superfused human granulosa cells in vitro. Rabe T, et al. **Mol Hum Reprod** 1996 Apr;2(4):291–4

Studies on the relative in–vitro biological potency of the naturally–occurring isoforms of intrapituitary follicle stimulating hormone. Zambrano E, et al. **Mol Hum Reprod** 1996 Aug;2(8):563–71

Cumulus cells of oocyte–cumulus complexes secrete a meiosis–activating substance when stimulated with FSH. Byskov AG, et al. **Mol Reprod Dev** 1997 Mar;46(3):296–305

Involvement of purine nucleotide synthetic pathways in gonadotropin–induced meiotic maturation in mouse cumulus cell–enclosed oocytes. Downs SM. **Mol Reprod Dev** 1997 Feb;46(2):155–67

Role of secreted proteins and gonadotrophins in promoting full maturation of porcine oocytes in vitro. Liu L, et al. **Mol Reprod Dev** 1997 Jun;47(2):191–9

Effects of epidermal growth factor and follicle–stimulating hormone during in vitro maturation on cytoplasmic maturation of porcine oocytes. Singh B, et al. **Mol Reprod Dev** 1997 Mar;46(3):401–7

Influence of FSH and hCG on the resumption of meiosis of bovine oocytes surrounded by cumulus cells connected to membrana granulosa. van Tol HT, et al. **Mol Reprod Dev** 1996 Oct;45(2):218–24

Chimeric proteins can exceed the sum of their parts: implications for evolution and protein design. Campbell RK, et al. **Nat Biotechnol** 1997 May;15(5):439–43

Progesterone production in vitro by mouse luteal cells: response to follicle–stimulating hormone, luteinizing hormone, and prolactin. Yuan W, et al. **Proc Soc Exp Biol Med** 1997 Mar;214(3):265–70

[Recombinant follicle–stimulating hormone (FSH); how much longer 'grandmothers' for mothers? (published errata appear in Ned Tijdschr Geneeskd 1996 Nov 16;140(46):2316 and 1996 Dec 28;140(52):2652)] Merkus JM. **Ned Tijdschr Geneeskd** 1996 Oct 5;140(40):1976–8 **(Dut)**

PHYSIOLOGY

Elucidating the role of gonadotrophins in endometrial cancer cell growth. Bax CM, et al. **Biochem Soc Trans** 1996 Aug; 24(3):443S

Follicle–stimulating hormone induces terminal differentiation in a predifferentiated rat granulosa cell line (ROG). Li R, et al. **Endocrinology** 1997 Jul;138(7):2648–57

A study of the relative roles of follicle–stimulating hormone and luteinizing hormone in the regulation of testicular inhibin secretion in the rhesus monkey (Macaca mulatta). Majumdar SS, et al. **Endocrinology** 1997 Apr; 138(4):1363–73

Androgen receptor gene expression in rat granulosa cells: the role of follicle–stimulating hormone and steroid hormones. Tetsuka M, et al. **Endocrinology** 1996 Oct; 137(10):4392–7

Daily rhythmic and non–rhythmic variations of follitropin, lutropin, testosterone, and sex–hormone–binding globulin in men. Valero–Politi J, et al. **Eur J Clin Chem Clin Biochem** 1996 Jun;34(6):455–62

Heterogeneity of follicle stimulating hormone: control and physiological function. Chappel SC. **Hum Reprod Update** 1995 Sep;1(5):479–87 (63 ref.)

Decreased spermatogenesis as the result of an induced autoimmune reaction directed against the gonadotropin receptors in male rats. Graf KM, et al. **J Androl** 1997 Mar–Apr;18(2):174–85

Recombinant rat follicle–stimulating hormone; production by Chinese hamster ovary cells, purification and functional characterization. Hakola K, et al. **Mol Cell Endocrinol** 1997 Mar 14;127(1):59–69

Structural and functional characterisation of hFSH and hLH isoforms. Stanton PG, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):133–41 (31 ref.)

Interference with follicle stimulating hormone regulation of human ovarian function. Fauser BC. **Mol Hum Reprod** 1996 May;2(5):327–34 (92 ref.)

Glucose utilization during gonadotropin–induced meiotic maturation in cumulus cell–enclosed mouse oocytes. Downs SM, et al. **Mol Reprod Dev** 1996 May;44(1):121–31

Follicle stimulating hormone is required for ovarian follicle maturation but not male fertility. Kumar TR, et al. **Nat Genet** 1997 Feb;15(2):201–4

Men homozygous for an inactivating mutation of the follicle–stimulating hormone (FSH) receptor gene present variable suppression of spermatogenesis and fertility. Tapanainen JS, et al. **Nat Genet** 1997 Feb;15(2):205–6

Cyclin D2 is an FSH–responsive gene involved in gonadal cell proliferation and oncogenesis. Sicinski P, et al.

Nature 1996 Dec 5;384(6608):470–4

A hypothalamic follicle-stimulating hormone-releasing decapeptide in the rat. Yu WH, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9499–503

SECRETION

New therapeutic possibilities handling residual azoospermia. Schoysman R, et al. **Acta Eur Fertil** 1995 Jul–Aug; 26(4):131–6 (21 ref.)

Normal or induced secretory patterns of luteinising hormone and follicle-stimulating hormone in anoestrous gonadotrophin-releasing hormone-immunised and cyclic control heifers. Prendiville DJ, et al. **Anim Reprod Sci** 1996 Dec 16;45(3):177–90

Roles of inhibin and estradiol in the regulation of follicle-stimulating hormone and luteinizing hormone secretion during the estrous cycle of the rat. Arai K, et al. **Biol Reprod** 1996 Jul;55(1):127–33

Contributions of endogenous inhibin and estradiol to the regulation of follicle-stimulating hormone and luteinizing hormone secretion in the pregnant rat. Arai K, et al. **Biol Reprod** 1997 Jun;56(6):1482–9

Chronic administration of the environmental pollutant 4-tert-octylphenol to adult male rats interferes with the secretion of luteinizing hormone, follicle-stimulating hormone, prolactin, and testosterone. Blake CA, et al. **Biol Reprod** 1997 Aug;57(2):255–66

Comparison of the effects of N-methyl-DL-aspartic acid on gonadotropin and prolactin secretion in anestrous mares and mares exhibiting estrous cycles during anestrus. Fitzgerald BP, et al. **Biol Reprod** 1997 Jul;57(1):36–42

Suppression in the secretion of follicle-stimulating hormone and luteinizing hormone, and ovarian follicle development in heifers continuously infused with a gonadotropin-releasing hormone agonist. Gong JG, et al. **Biol Reprod** 1996 Jul;55(1):68–74

Role of gonadotropin-releasing hormone pulse frequency in differential regulation of gonadotropins in the gilt. Jayes FC, et al. **Biol Reprod** 1997 Apr;56(4):1012–9

Effect of repeated activin-A treatment on the activity of the hypothalamic-pituitary-gonadal axis of the adult male rat. Lee S, et al. **Biol Reprod** 1997 Apr;56(4):969–75

New concepts of the neuroendocrine regulation of gonadotropin surges in rats. Levine JE. **Biol Reprod** 1997 Feb;56(2):293–302 (104 ref.)

Changes in ovarian function and gonadotropin secretion preceding the onset of nutritionally induced anestrus in Bos indicus heifers. Rhodes FM, et al. **Biol Reprod** 1996 Dec; 55(6):1437–43

Effects of progesterone on the secondary surge of follicle-stimulating hormone in the rat. Tébar M, et al. **Biol Reprod** 1997 Jul;57(1):77–84

Effects of passive immunization against inhibin-peptide on secretion of follicle-stimulating hormone and ovulation rate in ewes carrying the Booroola fecundity gene. Wheaton JE, et al. **Biol Reprod** 1996 Dec;55(6):1351–5

Effects of continuous inhibin administration on gonadotropin secretion and subunit gene expression in immature and adult male rats. Winters SJ, et al. **Biol Reprod** 1996 Dec; 55(6):1377–82

Gonadotroph and other clinically nonfunctioning pituitary adenomas. Snyder PJ. **Cancer Treat Res** 1997;89:57–72 (39 ref.)

Hypersecretion of follicle-stimulating hormone (FSH) on estrous afternoon in rats treated with RU486 in proestrus. Tébar M, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):421–6

Combined beta FSH and beta LH response to TRH in patients with clinically non-functioning pituitary adenomas. Somjen D, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):555–62

Inhibin is involved in the suppression of FSH secretion in the growth phase of the dominant follicle during the early luteal phase in cows. Kaneko H, et al. **Domest Anim Endocrinol** 1997 Jul;14(4):263–71

Neuroendocrine control of follicle-stimulating hormone (FSH) secretion. I. Direct evidence for separate episodic and basal components of FSH secretion. Padmanabhan V, et al. **Endocrinology** 1997 Jan;138(1):424–32

The antiprogestins RU486 and ZK98299 affect follicle-stimulating hormone secretion differentially on estrus, but not on proestrus. Ringstrom SJ, et al. **Endocrinology** 1997 Jun;138(6):2286–90

Contrasts in the gonadotropin-releasing hormone dose-response relationships for luteinizing hormone, follicle-stimulating hormone and alpha-subunit release in young versus older men: appraisal with high-specificity immunoradiometric assay and deconvolution analysis. Zwart AD, et al. **Eur J Endocrinol** 1996 Oct;135(4):399–406

Pituitary adenylate cyclase-activating polypeptide directly stimulates LH and FSH secretion by human pituitary gonadotrophinomas. Petersen B, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):250–5

Physiological relationships between inhibin B, follicle stimulating hormone secretion and spermatogenesis in normal men and response to gonadotrophin suppression by exogenous testosterone. Anderson RA, et al. **Hum Reprod** 1997 Apr;12(4):746–51

Pulsatile gonadotrophin secretion in women with polycystic ovary syndrome after gonadotrophin-releasing hormone agonist treatment. Cheung AP, et al. **Hum Reprod** 1997 Jun;12(6):1156–64

Influence of three-week fasting on gonadotropin pulsatility in obese menstruating women. Drezgić M, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):608–12

Determinants of abnormal gonadotropin secretion in clinically defined women with polycystic ovary syndrome. Taylor AE, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2248–56

Differential sex steroid negative feedback regulation of pulsatile follicle-stimulating hormone secretion in healthy older men: deconvolution analysis and steady-state sex-steroid hormone infusions in frequently sampled healthy older individuals. Veldhuis JD, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1248–54

Frequency modulation of follicle-stimulating hormone (FSH) during the luteal-follicular transition: evidence for FSH control of inhibin B in normal women. Welt CK, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2645–52

Induction of superovulation by immunoneutralization of endogenous inhibin through the increase in the secretion of follicle-stimulating hormone in the cyclic golden hamster. Kishi H, et al. **J Endocrinol** 1996 Oct;151(1):65–75

Ontogeny of FSH receptor messenger ribonucleic acid transcripts in relation to FSH secretion and testicular function in sheep. Yarney TA, et al. **J Mol Endocrinol** 1997 Apr;18(2):113–25

Sonographic appearance of ovaries and gonadotropin secretions as prognostic tools of spontaneous puberty in girls with Turner's syndrome. Matarazzo P, et al. **J Pediatr Endocrinol Metab** 1995 Oct–Dec;8(4):267–74

Increased LH and FSH secretion after cranial irradiation in boys. Lannering B, et al. **Med Pediatr Oncol** 1997 Oct; 29(4):280–7

Contour of the GnRH pulse independently modulates gonadotropin secretion in the human male. Pralong FP, et al. **Neuroendocrinology** 1996 Sep;64(3):247–56

Mediation by nitric oxide of LH-RH-stimulated gonadotropin secretions in human subjects. Chiodera P, et al. **Neuropeptides** 1995 Dec;29(6):321–4

Reduction of the amplitude of preovulatory LH and FSH surges and of the amplitude of the in vitro GnRH-induced LH release by substance P. Reversal of the effect by RP 67580. Duval P, et al. **Neuropharmacology** 1996; 35(12):1805–10

Effects of cabergoline in a pituitary adenoma secreting follicle-stimulating hormone. Leese G, et al. **Postgrad Med J** 1997 Aug;73(862):507–8

alpha-difluoromethylornithine modifies gonadotropin-releasing hormone release and follicle-stimulating hormone secretion in the immature female rat. Thyssen SM, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):192–7

Effect of somatostatin on the release of gonadotropins in male rats. Yu WH, et al. **Proc Soc Exp Biol Med** 1997 Jan; 214(1):83–6

Gonadotropin-releasing hormone neurons: their structure and function. Hoffman GE, et al. **Semin Reprod Endocrinol** 1997 Feb;15(1):5–17

2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) increases release of luteinizing hormone and follicle-stimulating hormone from the pituitary of immature female rats in vivo and in vitro. Li X, et al. **Toxicol Appl Pharmacol** 1997 Feb; 142(2):264–9

STANDARDS

Standardization of human follicle-stimulating hormone for therapy and diagnosis: report of an International Workshop, National Institute of Biological Standards & Control, UK, 21–22 March 1996. Jeffcoate SL. **Clin Endocrinol (Oxf)** 1997 May;46(5):527–9 (7 ref.)

Recombinant follicle-stimulating hormone (follitropin beta, Puregon) yields higher pregnancy rates in in vitro fertilization than urinary gonadotropins. Out HJ, et al. **Fertil Steril** 1997 Jul;68(1):138–42

THERAPEUTIC USE

Effect of mifepristone on folliculogenesis in women treated with recombinant FSH. Messinis IE, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):309–14

Similar pregnancy and spontaneous abortion rates after treatment with low-dose human menopausal gonadotropin versus pure follicle stimulating hormone in women with luteal phase defects. Check JH, et al. **Clin Exp Obstet Gynecol** 1997;24(1):5–7

Serum FSH levels in women with polycystic ovary syndrome during ovulation induction using down-regulation and urofollitropin. Fridström M, et al. **Eur J Endocrinol** 1997 May;136(5):488–92

Recombinant follicle-stimulating hormone in the treatment of patients with history of severe ovarian hyperstimulation syndrome. Aboulghar MA, et al. **Fertil Steril** 1996 Nov; 66(5):757–60

Cause for premature luteinization? [letter; comment] Filicori M. **Fertil Steril** 1997 Jun;67(6):1179–81. Comment on: Fertil Steril 1996 Aug;66(2):275–80.

Assessment of the role of serum luteinizing hormone and estradiol response to follicle-stimulating hormone on in vitro fertilization treatment outcome. Loumaye E, et al. **Fertil Steril** 1997 May;67(5):889–99

Use of recombinant human follicle-stimulating hormone for in vitro fertilization-embryo transfer after severe systemic immunoglobulin E-mediated reaction to urofollitropin. Phipps WR, et al. **Fertil Steril** 1996 Jul;66(1):148–50

Efficacy of recombinant follicle-stimulating hormone [letter; comment] Quinton R, et al. **Fertil Steril** 1996 Jul;66(1):164 . Comment on: Fertil Steril 1995 Jun;63(6):1326–8.

Serum levels of luteinizing and follicle-stimulating hormones in normal and poor-responding patients undergoing ovarian stimulation with urofollitropin after pituitary downregulation. Fridström M, et al. **Gynecol Endocrinol** 1997 Feb;11(1):25–8

The outcome of an in vitro fertilization program in women with polycystic ovary syndrome. Grochowski D, et al. **Gynecol Endocrinol** 1997 Aug;11(4):259–62

Oligomenorrhea treatment by purified FSH using a fixed protocol. Dessole S, et al. **Gynecol Obstet Invest** 1996; 42(3):187–90

Pure and highly purified follicle-stimulating hormone alone or in combination with human menopausal gonadotrophin for ovarian stimulation after pituitary suppression in in-vitro fertilization. Balasch J, et al. **Hum Reprod** 1996 Nov;11(11):2400–4

Efficacy and safety of recombinant follicle stimulating hormone (Puregon) in infertile women pituitary-suppressed with triptorelin undergoing in-vitro fertilization: a prospective, randomized, assessor-blind, multicentre trial. Hedon B, et al. **Hum Reprod** 1995 Dec;10(12):3102–6

Treatment of the male with follicle-stimulating hormone in intrauterine insemination with husband's spermatozoa: a randomized study. Matorras R, et al. **Hum Reprod** 1997 Jan;12(1):24–8

A randomized comparative study of highly purified follicle stimulating hormone and human menopausal gonadotrophin for ovarian hyperstimulation in an oocyte donation programme. Söderström-Anttila V, et al. **Hum Reprod** 1996 Sep;11(9):1864–70

The effect of follicle-stimulating hormone therapy on sperm quality: an ultrastructural mathematical evaluation. Strehler E, et al. **J Androl** 1997 Jul–Aug;18(4):439–47

The impact of insulin secretion on the ovarian response to exogenous gonadotropins in polycystic ovary syndrome. Fulghesu AM, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):644–8

Use of growth hormone-releasing factor in ovulation induction in poor responders. Busacca M, et al. **J Reprod Med** 1996 Sep;41(9):699–703

Ultrasound-guided follicle aspiration and IVF in dairy cows treated with FSH after removal of the estrous cycle. Ooe M, et al. **J Vet Med Sci** 1997 May;59(5):371–6

Treatment of prepubertal gonadotrophin-deficient boys with recombinant human follicle-stimulating hormone [letter] Raivio T, et al. **Lancet** 1997 Jul 26;350(9073):263–4

[Clinical use of recombinant gonadotropins (FSH, LH, hCG)] Antoine JM, et al. **Contracept Fertil Sex** 1997 Feb; 25(2):141–6 (Eng. Abstr.) **(Fre)**

[Comparative randomized controlled study between human follicle- stimulating hormone (FSH-HP) and human menopausal gonadotropins (hMG) in in vitro fertilization] Mayenga JM, et al. **Contracept Fertil Sex** 1997 May; 25(5):371–4 (Eng. Abstr.) **(Fre)**

[Ovulation induction with pure FSH in anovulatory patients resistant to clomifene citrate] Kably-Ambe A, et al. **Ginecol Obstet Mex** 1996 Jul;64:293–6 (Eng. Abstr.) **(Spa)**

URINE

Monthly urinary gonadotropin and ovarian hormone excretory patterns in normal girls and female patients with idiopathic precocious puberty. Maesaka H, et al. **Pediatr Res** 1996 Dec;40(6):853–60

FSH, ALPHA SUBUNIT see **GLYCOPROTEIN HORMONES, ALPHA SUBUNIT**

FSH RECEPTORS see **RECEPTORS, FSH**

FSH-RELEASING HORMONE see **GONADORELIN**

FTA-ABS TEST see **FLUORESCENT TREPONEMAL ANTIBODY-ABSORPTION TEST**

FTIR see **SPECTROSCOPY, FOURIER TRANSFORM INFRARED**

FTLV see **IMMUNODEFICIENCY VIRUS, FELINE**

FTORAFUR see **TEGAFUR**

FUCHS' ENDOTHELIAL DYSTROPHY

CONGENITAL

Penetrating keratoplasty in congenital hereditary endothelial dystrophy. al-Rajhi AA, et al. **Ophthalmology** 1997 Jun; 104(6):956–61

METABOLISM

Beta ig-h3 is synthesized by corneal epithelium and perhaps endotheliumin Fuchs' dystrophic corneas. Hirano K, et al. **Curr Eye Res** 1996 Sep;15(9):965–72

PATHOLOGY

Histologic changes and wound healing response following 10-pulse noncontact holmium:YAG laser thermal

keratoplasty. Koch DD, et al. **J Refract Surg** 1996 Jul–Aug; 12(5):623–34

Primary cornea guttata in Japanese patients with cataract: specular microscopic observations. Nagaki Y, et al. **Jpn J Ophthalmol** 1996;40(4):520–5

PHYSIOPATHOLOGY

In vivo quantification of corneal endothelium function. Saini JS, et al. **Acta Ophthalmol Scand** 1996 Oct;74(5):468–72

SURGERY

Increased corneal scarring after phototherapeutic keratectomy in Fuchs' corneal dystrophy. Alaa M, et al. **J Refract Surg** 1997 May–Jun;13(3):308–10

Penetrating keratoplasty in congenital hereditary endothelial dystrophy. al-Rajhi AA, et al. **Ophthalmology** 1997 Jun; 104(6):956–61

[Regularity of corneal topography after penetrating keratoplasty—comparison between non-mechanical (excimer laser 193 nm) and mechanical trepanation] Langenbucher A, et al. **Klin Monatsbl Augenheilkd** 1996 Jun;208(6):450–8; discussion 450 (Eng. Abstr.) **(Ger)**

[Keratoplasty of pseudophakic eyes with posterior chamber lenses in Fuchs' dystrophy and secondary bullous keratopathy. Long-term outcome] Müller M, et al. **Ophthalmologe** 1997 Apr;94(4):282–4 (Eng. Abstr.) **(Ger)**

FUCHSINS see **ROSANILINE DYES**

FUCOSE

ANALOGS & DERIVATIVES

Synthesis of novel 6-amido-6-deoxy-l-galactose derivatives as sialyl Lewis X mimetics. Cappi MW, et al. **Bioorg Med Chem** 1997 Feb;5(2):283–96

Reduction of metastatic properties of BL6 melanoma cells expressing terminal fucose(alpha)1-2-galactose after alpha1,2-fucosyltransferase cDNA transfection. Gorelik E, et al. **Cancer Res** 1997 Jan 15;57(2):332–6

Inhibition of L-fucokinase from rat liver by L-fucose analogues in vitro. Zeitler R, et al. **J Enzyme Inhib** 1997 Feb;11(4):265–73

ANALYSIS

Simple differentiation between core-fucosylated and nonfucosylated glycans by capillary electrophoresis. Okafo GN, et al. **Anal Biochem** 1996 Aug 15;240(1):68–74

Altered carbohydrate composition in colorectal adenomas and carcinomas: histochemical characterization of N-acetylgalactosamine, L-fucose, and o-acetylated sialic acid. Iwakawa K, et al. **J Gastroenterol** 1996 Feb; 31(1):24–32

[Relation between the sialic acid/fucose ratio in airway secretions and the degree of airway remodeling in bronchial asthma—reversibility of airflow limitation by beta-agonists and airway remodeling in bronchial asthma] Kobayashi H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:54–8 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Supplemental myo-inositol prevents L-fucose-induced diabetic neuropathy. Sima AA, et al. **Diabetes** 1997 Feb; 46(2):301–6

BLOOD

[Method of measuring non-protein bound fucose] Sharaev PN, et al. **Klin Lab Diagn** 1997 Apr;(4):17–8 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Structure of fucose branches in the glycosaminoglycan from the body wall of the sea cucumber Stichopus japonicus. Kariya Y, et al. **Carbohydr Res** 1997 Jan 17;297(3):273–9

Selectin inhibition: synthesis and evaluation of novel sialylated, sulfated and fucosylated oligosaccharides, including the major capping group of GlyCAM-1. Koenig A, et al. **Glycobiology** 1997 Feb;7(1):79–93

Transfer of Man9GlcNAc to L-fucose by endo-beta-N-acetylglucosaminidase from Arthrobacter protophormiae. Fan JQ, et al. **Glycoconj J** 1996 Aug; 13(4):643–52

IMMUNOLOGY

Increase of rat colon carcinoma cells tumorigenicity by alpha(1-2) fucosyltransferase gene transfection. Goupille C, et al. **Glycobiology** 1997 Mar;7(2):221–9

Haemolytic activities of plant saponins and adjuvants. Effect of Periandra mediterranea saponin on the humoral response to the FML antigen of Leishmania donovani. Santos WR, et al. **Vaccine** 1997 Jun;15(9):1024–9

METABOLISM

High affinity of a fucosylated chondroitin sulfate for plasma low density lipoprotein [published erratum appears in Atherosclerosis 1997 Feb 10;128(2):255-6] Tovar AM, et al. **Atherosclerosis** 1996 Oct 25;126(2):185–95

Fucosylation of complex glycosphingolipids by recombinant fucosyltransferase-VII. Stroud MR, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):165–8

Fucosylation of synthetic oligosaccharides—plant xyloglucan fragments—by mammalian and amphibian fucosyltransferases. Druzhinina TN, et al. **Biochemistry (Mosc)** 1997 Jan;62(1):62–5

Effect of L-fucose and D-glucose concentration on L-fucoprotein metabolism in human Hep G2 cells and changes in fucosyltransferase and alpha-L-fucosidase activity in liver of diabetic rats. Wiese TJ, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1-2):61–72

Bovine sperm binding to oviductal epithelium involves fucose recognition. Lefebvre R, et al. **Biol Reprod** 1997 May; 56(5):1198–204

Reduction of metastatic properties of BL6 melanoma cells expressing terminal fucose(alpha)1-2-galactose after alpha1,2-fucosyltransferase cDNA transfection. Gorelik E, et al. **Cancer Res** 1997 Jan 15;57(2):332–6

1H NMR analysis of novel sialylated and fucosylated lactose-based oligosaccharides having linear GlcNAc(beta 1-6) Gal and Neu5Ac(alpha 2-6) GlcNAc sequences. Bailey D, et al. **Carbohydr Res** 1997 May 19;300(4):289–300

Autoradiographic studies on mucilage synthesis in Chara vulgaris antheridium with the use of 3H-fucose in total darkness and light. Gosek A. **Folia Histochem Cytobiol** 1996;34(3–4):155–60

The fucosylation and secretion of mucins synthesized in human bronchial cells vary according to growth conditions. Emery N, et al. **Glycobiology** 1997 Feb; 7(1):95–101

Identification of a GDP-L-fucose:polypeptide fucosyltransferase and enzymatic addition of O-linked fucose to EGF domains. Wang Y, et al. **Glycobiology** 1996 Dec;6(8):837–42

The O-linked fucose glycosylation pathway. Evidence for protein-specific elongation of o-linked fucose in Chinese hamster ovary cells. Moloney DJ, et al. **J Biol Chem** 1997 Jul 25;272(30):19046–50

Sequential study of serum glycoprotein fucosylation in acute hepatitis. Seta N, et al. **J Hepatol** 1997 Feb;26(2):265–71

Knowledge-based modeling of a legume lectin and docking of the carbohydrate ligand: the Ulex europaeus lectin I and its interaction with fucose. Gohier A, et al. **J Mol Graph** 1996 Dec;14(6):322–7, 363–4

PHARMACOLOGY

Suppressive effect of monosaccharides on ICAM-1/CD54 expression in human keratinocytes. Palacio S, et al. **Arch Dermatol Res** 1997 Mar;289(4):234–7

Novel aspects of interaction between UDP-gal and GlcNAc beta-1,4-galactosyltransferase: transferability and remarkable inhibitory activity of UDP-(mono-O-methylated gal), UDP-Fuc and UDP-man. Endo T, et al. **Bioorg Med Chem** 1996 Nov; 4(11):1939–48

Fucose and fucosyllactose enhance in-vitro hippocampal long-term potentiation. Matthies H, et al. **Brain Res** 1996 Jul 1;725(2):276–80

Inhibition of L-fucokinase from rat liver by L-fucose analogues in vitro. Zeitler R, et al. **J Enzyme Inhib** 1997 Feb;11(4):265–73

THERAPEUTIC USE

Pseudomonas aeruginosa II lectin stops human ciliary beating: therapeutic implications of fucose. Adam EC, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2102–4

FUCOSIDASE

see related
FUCOSIDOSIS

[Change of isoforms' spectrum of alpha-L-fucoside secreted by affected cells in some hereditary lysosomal diseases] Ivleva TS, et al. **Vopr Med Khim** 1997 May-Jun; 43(3):177–84 (Eng. Abstr.) **(Rus)**

ANALYSIS

Compartmentalization of fucosyltransferase and alpha-L-fucosidase in human milk. Wiederschain GY, et al. **Biochem Mol Med** 1996 Aug;58(2):211–20

Nonradioactive immunoquantification of alpha-L-fucosidase protein in human colon tissues. Fernández J, et al. **J Biochem Biophys Methods** 1996 Jan 11;31(1-2):39–47

Serum and pleural fluid levels of alpha-L-fucosidase and sialic acid have no diagnostic value in malignant pleural effusions. Aktoğu S, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):118–20

BIOSYNTHESIS

The production of neuraminidase and fucosidase by Helicobacter pylori: their possible relationship to pathogenicity. Dwarakanath AD, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3–4):213–16

GENETICS

The genes encoding the peripheral cannabinoid receptor and alpha-L-fucosidase are located near a newly identified common virus integration site, Evi11. Valk PJ, et al. **J Virol** 1997 Sep;71(9):6796–804

Directed evolution of a fucosidase from a galactosidase by DNA shuffling and screening. Zhang JH, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4504–9

METABOLISM

A nonglycosylated, 68-kDa alpha-L-fucosidase is bound to the mollusc bivalve Unio elongatulus sperm plasma membrane and differs from a glycosylated 56-kDa form present in the seminal fluid. Focarelli R, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):54–8

Immunocytochemical localization and biochemical characterization of a novel plasma membrane-associated, neutral pH optimum alpha-L-fucosidase from rat testis and epididymal spermatozoa. Avilés M, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):821–31

Effect of L-fucose and D-glucose concentration on L-fucoprotein metabolism in human Hep G2 cells and changes in fucosyltransferase and alpha-L-fucosidase activity in liver of diabetic rats. Wiese TJ, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1-2):61–72

Serum alpha L-fucosidase enzyme activity in ovarian and other female genital tract tumors. Abdel-Aleem H, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):273–9

FUCOSIDOSIS

COMPLICATIONS

Cutaneous manifestations of fucosidosis. Fleming C, et al. **Br J Dermatol** 1997 Apr;136(4):594–7

Fucosidosis with dystonia. Gordon BA, et al. **Neuropediatrics** 1995 Dec;26(6):325–7

DIAGNOSIS

Evolution of the neuroimaging changes in fucosidosis type II. Terespolsky D, et al. **J Inherit Metab Dis** 1996; 19(6):775–81

GENETICS

Fucosidosis: genetic and biochemical analysis of eight cases. Cragg H, et al. **J Med Genet** 1997 Feb;34(2):105–10

THERAPY

Canine fucosidosis: a model for retroviral gene transfer into haematopoietic stem cells. Ferrara ML, et al. **Neuromuscul Disord** 1997 Jul;7(5):361–6

VETERINARY

Fucosidosis in a family of American-bred English Springer Spaniels. Smith MO, et al. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2088–90

FUCOSYL SSEA-1 see **ANTIGENS, CD15**

FUCOSYLTRANSFERASES

ANALYSIS

Compartmentalization of fucosyltransferase and alpha-L-fucosidase in human milk. Wiederschain GY, et al. **Biochem Mol Med** 1996 Aug;58(2):211–20

Murine monoclonal antibody recognizing human alpha(1,3/1,4)fucosyltransferase. Kimura H, et al. **Glycoconj J** 1995 Dec;12(6):802–12

A fluorescent assay method for GDP-L-Fuc:N-acetyl-beta-D-glucosaminide alpha 1-6fucosyltransferase activity, involving high performance liquid chromatography. Uozumi N, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):385–92

BIOSYNTHESIS

Downregulation of the selectin ligand-producing fucosyltransferases Fuc-TIV and Fuc-TVII during foam cell formation in monocyte-derived macrophages. Cullen P, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug; 17(8):1591–8

Altered mRNA expression of specific molecular species of fucosyl- and sialyl-transferases in human colorectal cancer tissues. Ito H, et al. **Int J Cancer** 1997 May 16;71(4):556–64

Adenovirus-mediated gene transfer of antisense ribozyme for alpha (1,3)galactosyltransferase gene and alpha (1,2)fucosyltransferase gene in xenotransplantation. Hayashi S, et al. **Transplant Proc** 1997 Jun;29(4):2213

CHEMISTRY

Chemical modification of an alpha 3-fucosyltransferase; definition of amino acid residues essential for enzyme activity. Britten CJ, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):57–64

Acceptor hydroxyl group mapping for human milk alpha 1-3 and alpha 1-3/4 fucosyltransferases. Gosselin S, et al. **Bioorg Med Chem** 1996 Nov;4(11):2023–8

Sequence alignment and fold recognition of fucosyltransferases [letter] Breton C, et al. **Glycobiology** 1996 Oct;6(7):vii–xii

Switching amino-terminal cytoplasmic domains of alpha(1,2)fucosyltransferase and alpha(1,3)galactosyltransferase alters the expression of H substance and Galalpha(1,3)Gal. Osman N, et al. **J Biol Chem** 1996 Dec 20;271(51):33105–9

DEFICIENCY

Serologic characteristics of H-deficient phenotypes among Chinese in Hong Kong. Mak KH, et al. **Transfusion** 1996 Nov-Dec;36(11-12):994-9

GENETICS

Human T-cell leukemia virus-1 encoded Tax protein transactivates alpha 1-->3 fucosyltransferase Fuc-T VII, which synthesizes sialyl Lewis X, a selectin ligand expressed on adult T-cell leukemia cells. Hiraiwa N, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):183-6

Missense mutation of FUT1 and deletion of FUT2 are responsible for Indian Bombay phenotype of ABO blood group system. Koda Y, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):21-5

Wide variety of point mutations in the H gene of Bombay and para-Bombay individuals that inactivate H enzyme. Kaneko M, et al. **Blood** 1997 Jul 15;90(2):839-49

Fucosyltransferase genes are dispersed in the genome: FUT7 is located on 9q34.3 distal to D9S1830. Reguigne-Arnould I, et al. **C R Acad Sci III** 1996 Sep;319(9):783-8

Reduction of metastatic properties of BL6 melanoma cells expressing terminal fucose(alpha)1-2-galactose after alpha1,2-fucosyltransferase cDNA transfection. Gorelik E, et al. **Cancer Res** 1997 Jan 15;57(2):332-6

Structure and expression of the gene encoding secretor-type galactoside 2-alpha-L-fucosyltransferase (FUT2). Koda Y, et al. **Eur J Biochem** 1997 Jun 15;246(3):750-5

Molecular studies on a new genetic locus linked to the common nodulation genes in Bradyrhizobium japonicum. Luka S, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):145-51

Developmental regulation of alpha 1,3-fucosyltransferase expression in CD34 positive progenitors and maturing myeloid cells isolated from normal human bone marrow. Le Marer N, et al. **Glycobiology** 1997 Apr;7(3):357-65

Molecular basis for erythrocyte Le(a+ b+) and salivary ABH partial-secretor phenotypes: expression of a FUT2 secretor allele with an A-->T mutation at nucleotide 385 correlates with reduced alpha(1,2) fucosyltransferase activity. Henry S, et al. **Glycoconj J** 1996 Dec;13(6):985-93

Purification, properties and possible gene assignment of an alpha 1,3-fucosyltransferase expressed in human liver. Johnson PH, et al. **Glycoconj J** 1995 Dec;12(6):879-93

A transgenic mouse line with alpha-1,3/4-fucosyl-transferase cDNA: production and characteristics. Obama H, et al. **Glycoconj J** 1995 Dec; 12(6):795-801

Cloning of a rat alpha1,3-fucosyltransferase gene: a member of the fucosyltransferase IV family. Sajdel-Sulkowska EM, et al. **Glycoconj J** 1997 Feb;14(2):249-58

Molecular cloning and expression of a mouse alpha-1,3 fucosyltransferase gene that shows homology with the human alpha-1,3 fucosyltransferase IV gene. Ozawa M, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):302-8

Purification and cDNA cloning of GDP-L-Fuc:N-acetyl-beta-D-glucosaminide:alpha1-6 fucosyltransferase (alpha1-6 FucT) from human gastric cancer MKN45 cells. Yanagidani S, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):626-32

Significance of individual point mutations, T202C and C314T, in the human Lewis (FUT3) gene for expression of Lewis antigens by the human alpha(1,3/1,4)-fucosyltransferase, Fuc-TIII. Elmgren A, et al. **J Biol Chem** 1997 Aug 29;272(35):21994-8

Cloning and heterologous expression of an alpha1,3-fucosyltransferase gene from the gastric pathogen Helicobacter pylori. Ge Z, et al. **J Biol Chem** 1997 Aug 22;272(34):21357-63

Suppression of sialyl Lewis X expression and E-selectin-mediated cell adhesion in cultured human lymphoid cells by transfection of antisense cDNA of an alpha1-->3 fucosyltransferase (Fuc-T VII). Hiraiwa N, et al. **J Biol Chem** 1996 Dec 6;271(49):31556-61

Structure and expression of H-type GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase gene (FUT1). Two transcription start sites and alternative splicing generate several forms of FUT1 mRNA. Koda Y, et al. **J Biol Chem** 1997 Mar 14;272(11):7501-5

Molecular cloning and characterization of CFT1, a developmentally regulated avian alpha(1,3)-fucosyltransferase gene. Lee KP, et al. **J Biol Chem** 1996 Dec 20;271(51):32960-7

Lewis X biosynthesis in Helicobacter pylori. Molecular cloning of an alpha(1,3)-fucosyltransferase gene. Martin SL, et al. **J Biol Chem** 1997 Aug 22;272(34):21349-56

Influence of Lewis alpha1-3/4-L-fucosyltransferase (FUT3) gene mutations on enzyme activity, erythrocyte phenotyping, and circulating tumor marker sialyl-Lewis a levels. Orntoft TF, et al. **J Biol Chem** 1996 Dec 13; 271(50):32260-8

Molecular cloning and expression of a bovine alpha(1,3)-fucosyltransferase gene homologous to a putative ancestor gene of the human FUT3-FUT5-FUT6 cluster. Oulmouden A, et al. **J Biol Chem** 1997 Mar 28; 272(13):8764-73

Selectin ligands, leukocyte trafficking, and fucosyltransferase genes. Lowe JB. **Kidney Int** 1997 May;51(5):1418-26 (113 ref.)

Mapping of two different alpha-1,2-fucosyltransferase genes to rat chromosome 1q22-q31. Liehr T, et al. **Mamm Genome** 1997 Apr;8(4):297-8

NodZ of Bradyrhizobium extends the nodulation host range of Rhizobium by adding a fucosyl residue to nodulation signals. López-Lara IM, et al. **Mol Microbiol** 1996 Jul; 21(2):397-408

High-level expression and purification of a recombinant human alpha-1, 3-fucosyltransferase in baculovirus-infected insect cells. Shinkai A, et al. **Protein Expr Purif** 1997 Aug;10(3):379-85

Advances in molecular genetics of alpha-2- and alpha-3/4-fucosyltransferases. Costache M, et al. **Transfus Clin Biol** 1997 Jul;4(4):367-82 (119 ref.)

Comparison of the Lewis phenotypes among the different population groups of Taiwan. Broadberry RE, et al. **Transfus Med** 1996 Sep;6(3):255-60

Changes in cell surface glycosylation in alpha1,3-galactosyltransferase knockout and alpha1,2-fucosyltransferase transgenic mice. Shinkel TA, et al. **Transplantation** 1997 Jul 27;64(2):197-204

A second nonsecretor allele of the blood group alpha(1,2)fucosyl-transferase gene (FUT2). Henry S, et al. **Vox Sang** 1996;70(1):21-5

Identification of a new plasma alpha(1,3)fucosyltransferase (FUT6) allele requires an extended genotyping strategy. Larson G, et al. **Vox Sang** 1996;71(4):233-41

Two missense mutations of H type alpha(1,2)fucosyltransferase gene (FUT1) responsible for para-Bombay phenotype [published erratum appears in Vox Sang 1997;72(3):147] Wang B, et al. **Vox Sang** 1997; 72(1):31-5

Heterogeneity of the human H blood group alpha(1,2)fucosyltransferase gene among para-Bombay individuals. Yu LC, et al. **Vox Sang** 1997;72(1):36-40

[Expression of metastasis-related genes in the samples collected at surgery of lung cancer and its relationship with prognosis] Ogawa J, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):394-6 **(Jpn)**

ISOLATION & PURIFICATION

Purification, properties and possible gene assignment of an alpha 1,3-fucosyltransferase expressed in human liver. Johnson PH, et al. **Glycoconj J** 1995 Dec;12(6):879-93

Functional purification and characterization of a GDP-fucose: beta-N-acetylglucosamine (Fuc to Asn linked GlcNAc) alpha 1,3-fucosyltransferase from mung beans. Staudacher E, et al. **Glycoconj J** 1995 Dec; 12(6):780-6

Purification and cDNA cloning of GDP-L-Fuc:N-acetyl-beta-D-glucosaminide:alpha1-6 fucosyltransferase (alpha1-6 FucT) from human gastric cancer MKN45 cells. Yanagidani S, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):626-32

High-level expression and purification of a recombinant human alpha-1, 3-fucosyltransferase in baculovirus-infected insect cells. Shinkai A, et al. **Protein Expr Purif** 1997 Aug;10(3):379-85

METABOLISM

A time-resolved immunofluorometric method for the measurement of sialyl Lewis x-synthesizing alpha1,3-fucosyltransferase activity. Räbinä J, et al. **Anal Biochem** 1997 Mar 1;246(1):71-8

alpha1,4-Fucosyltransferase activity in human serum and saliva. DeBose-Boyd RA, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):109-17

Three different endogenous alpha-L-fucosyltransferases expressed in COS cells. Clarke JL, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):400-6

Distinct substrate specificities of five human alpha-1,3-fucosyltransferases for in vivo synthesis of the sialyl Lewis x and Lewis x epitopes. Kimura H, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):131-7

Fucosylation of complex glycosphingolipids by recombinant fucosyltransferase-VII. Stroud MR, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):165-8

Mechanism of human alpha-1,3-fucosyltransferase V: glycosidic cleavage occurs prior to nucleophilic attack. Murray BW, et al. **Biochemistry** 1997 Jan 28;36(4):823-31

Fucosylation of synthetic oligosaccharides--plant xyloglucan fragments--by mammalian and amphibian fucosyltransferases. Druzhinina TN, et al. **Biochemistry (Mosc)** 1997 Jan;62(1):62-5

Effect of L-fucose and D-glucose concentration on L-fucoprotein metabolism in human Hep G2 cells and changes in fucosyltransferase and alpha-L-fucosidase activity in liver of diabetic rats. Wiese TJ, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1-2):61-72

Multiple fucosyltransferases and their carbohydrate ligands are involved in spermatogenic cell-Sertoli cell adhesion in vitro in rats. Raychoudhury SS, et al. **Biol Reprod** 1997 May;56(5):1268-73

A search for pyrophosphate mimics for the development of substrates and inhibitors of glycosyltransferases. Wang R, et al. **Bioorg Med Chem** 1997 Apr;5(4):661-72

Increased sialyl Lewis A expression and fucosyltransferase activity with acquisition of a high metastatic capacity in a colon cancer cell line. Yamada N, et al. **Br J Cancer** 1997;76(5):582-7

alpha-2,3-Sialyltransferase type 3N and alpha-1,3-fucosyltransferase type VII are related to sialyl Lewis(x) synthesis and patient survival from lung carcinoma. Ogawa JI, et al. **Cancer** 1997 May 1; 79(9):1678-85

Recognition of beta-D-Gal p-(1-->3)-beta-D-Glc pNAc-OR acceptor analogues by the Lewis alpha-(1-->3/4)-fucosyltransferase from human milk. Du M, et al. **Carbohydr Res** 1996 Jun 5;286:87-105

Le(X) structure enhances myocardial differentiation from embryonic stem cells. Sudou A, et al. **Cell Struct Funct** 1997 Apr;22(2):247-51

Dictyostelium cytosolic fucosyltransferase synthesizes H type 1 trisaccharide in vitro. Trinchera M, et al. **FEBS Lett** 1996 Oct 14;395(1):68-72

Increase of rat colon carcinoma cells tumorigenicity by alpha(1-2) fucosyltransferase gene transfection. Goupille C, et al. **Glycobiology** 1997 Mar;7(2):221-9

Identification of a GDP-L-fucose:polypeptide fucosyltransferase and enzymatic addition of O-linked fucose to EGF domains. Wang Y, et al. **Glycobiology** 1996 Dec;6(8):837-42

Elevation of an alpha(1,3)fucosyltransferase activity correlated with apoptosis in the human colon adenocarcinoma cell line, HT-29. Akamatsu S, et al. **Glycoconj J** 1996 Dec;13(6):1021-9

Fucosyltransferase III and sialyl-Le(x) expression correlate in cultured colon carcinoma cells but not in colon carcinoma tissue. Hanski C, et al. **Glycoconj J** 1996 Oct; 13(5):727-33

Molecular basis for erythrocyte Le(a+ b+) and salivary ABH partial-secretor phenotypes: expression of a FUT2 secretor allele with an A-->T mutation at nucleotide 385 correlates with reduced alpha(1,2) fucosyltransferase activity. Henry S, et al. **Glycoconj J** 1996 Dec;13(6):985-93

Biosynthesis of a blood group H1 antigen by alpha 1, 2-fucosyltransferase in PC12 cells. Kojima H, et al. **Glycoconj J** 1996 Jun;13(3):445-52

Cloning of a rat alpha1,3-fucosyltransferase gene: a member of the fucosyltransferase IV family. Sajdel-Sulkowska EM, et al. **Glycoconj J** 1997 Feb;14(2):249-58

Rhizobium sp. strain NGR234 NodZ protein is a fucosyltransferase. Quesada-Vincens D, et al. **J Bacteriol** 1997 Aug;179(16):5087-93

Stable expression of the Golgi form and secretory variants of human fucosyltransferase III from BHK-21 cells. Purification and characterization of an engineered truncated form from the culture medium. Costa J, et al. **J Biol Chem** 1997 Apr 25;272(17):11613-21

Expression of human H-type alpha1,2-fucosyltransferase encoding for blood group H(O) antigen in Chinese hamster ovary cells. Evidence for preferential fucosylation and truncation of polylactosamine sequences. Prieto PA, et al. **J Biol Chem** 1997 Jan 24;272(4):2089-97

Expression of alpha-1,3-galactose and other type 2 oligosaccharide structures in a porcine endothelial cell line transfected with human alpha-1,2-fucosyltransferase cDNA. Sepp A, et al. **J Biol Chem** 1997 Sep 12; 272(37):23104-10

Purification and cDNA cloning of porcine brain GDP-L-Fuc:N-acetyl-beta-D-glucosaminide alpha1-->6fucosyltransferase. Uozumi N, et al. **J Biol Chem** 1996 Nov 1;271(44):27810-7

The E-selectin ligand-1 is selectively activated in Chinese hamster ovary cells by the alpha(1,3)-fucosyltransferases IV and VII. Zöllner O, et al. **J Biol Chem** 1996 Dec 20; 271(51):33002-8

NodZ of Bradyrhizobium extends the nodulation host range of Rhizobium by adding a fucosyl residue to nodulation signals. López-Lara IM, et al. **Mol Microbiol** 1996 Jul; 21(2):397-408

Xyloglucan galactosyl- and fucosyltransferase activities from pea epicotyl microsomes. Faïk A, et al. **Plant Physiol** 1997 May;114(1):245-54

Bacterial nodulation protein NodZ is a chitin oligosaccharide fucosyltransferase which can also recognize related substrates of animal origin. Quinto C, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4336-41

Reduction of alpha-Gal epitopes in transgenic pig by introduction of human alpha 1-2 fucosyltransferase. Koike C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):894

PHARMACOLOGY

Down-regulation of Gal alpha(1,3)Gal expression by alpha1,2-fucosyltransferase: further characterization of alpha1,2-fucosyltransferase transgenic mice. Cohney S, et al. **Transplantation** 1997 Aug 15;64(3):495-500

PHYSIOLOGY

Expression of leukocyte fucosyltransferases regulates binding to E-selectin: relationship to previously implicated carbohydrate epitopes. Wagers AJ, et al. **J Immunol** 1997 Aug 15;159(4):1917-29

FUDR see **FLOXURIDINE**

FUEL OILS

A regression approach to the analysis of serial peak flow among fuel oil ash exposed workers. Hauser R, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):974-80

Neurotoxin formation from pilot-scale incineration of

FUEL OILS

synthetic ester turbine lubricants with a triaryl phosphate additive. Rubey WA, et al. **Arch Toxicol** 1996;70(8):508–9

Mutagenicity of cyclopenta-fused polynuclear aromatic hydrocarbons and a non-polar fraction from a fuel combustion sample in a Salmonella forward mutation assay without exogenous metabolic activation. Busby WF Jr, et al. **Mutat Res** 1997 Jul 14;391(3):117–25

ADVERSE EFFECTS

Occupational dermatitis from isothiazolinones in diesel oil. Bruynzeel DP, et al. **Contact Dermatitis** 1996 Jan;34(1):64–5

Sensitizing and irritant properties of 3 environmental classes of diesel oil and their indicator dyes. Fischer T, et al. **Contact Dermatitis** 1996 May;34(5):309–15

Bronchial responsiveness of non-smoking women exposed to environmental tobacco smoke or biomass fuel combustion. Jindal SK, et al. **Indian J Med Res** 1996 Dec; 104:359–64

Genotoxic changes after low-level solvent and fuel exposure on aircraft maintenance personnel. Lemasters GK, et al. **Mutagenesis** 1997 Jul;12(4):237–43

ANALYSIS

[Prognosis after exposure to engine fuel vapours] Wesolowski W, et al. **Med Pr** 1996;47(1):19–29 (Eng. Abstr.) **(Pol)**

TOXICITY

Soluble transition metals mediate residual oil fly ash induced acute lung injury. Dreher KL, et al. **J Toxicol Environ Health** 1997 Feb 21;50(3):285–305

[Clinical and psychological criteria of early detection of hazardous effects of components of synthetic hydrocarbon fuel] Kiselev DB, et al. **Med Tr Prom Ekol** 1997;(6):34–7 (Eng. Abstr.) **(Rus)**

FUGU TOXIN see **TETRODOTOXIN**

FUGUE see **DISSOCIATIVE DISORDERS**

FUKUHARA DISEASE see **MERRF SYNDROME**

FUMARASE see **FUMARATE HYDRATASE**

FUMARATE HYDRATASE

BIOSYNTHESIS

Molecular characterization of potato fumarate hydratase and functional expression in Escherichia coli. Nast G, et al. **Plant Physiol** 1996 Nov;112(3):1219–27

CHEMISTRY

Restructuring the active site of fumarase for the fumarate to malate reaction. Rose IA. **Biochemistry** 1997 Oct 7; 36(40):12346–54

Crystallographic studies of the catalytic and a second site in fumarase C from Escherichia coli. Weaver T, et al. **Biochemistry** 1996 Nov 5;35(44):13955–65

Molecular characterization of potato fumarate hydratase and functional expression in Escherichia coli. Nast G, et al. **Plant Physiol** 1996 Nov;112(3):1219–27

DEFICIENCY

Inborn errors of the Krebs cycle: a group of unusual mitochondrial diseases in human. Rustin P, et al. **Biochim Biophys Acta** 1997 Aug 22;1361(2):185–97 (35 ref.)

Congenital fumarase deficiency presenting with hypotonia and areflexia. Narayanan V, et al. **J Child Neurol** 1996 May; 11(3):252–5

GENETICS

Fumarase C activity is elevated in response to iron deprivation and in mucoid, alginate-producing Pseudomonas aeruginosa: cloning and characterization of fumC and purification of native fumC. Hassett DJ, et al. **J Bacteriol** 1997 Mar;179(5):1442–51

An operon containing fumC and sodA encoding fumarase C and manganese superoxide dismutase is controlled by the ferric uptake regulator in Pseudomonas aeruginosa: fur mutants produce elevated alginate levels. Hassett DJ, et al. **J Bacteriol** 1997 Mar;179(5):1452–9

ISOLATION & PURIFICATION

Impact of cell disruption and polymer recycling upon aqueous two-phase processes for protein recovery. Rito-Palomares M, et al. **J Chromatogr B Biomed Appl** 1996 May 17;680(1–2):81–9

METABOLISM

Fumarase C activity is elevated in response to iron deprivation and in mucoid, alginate-producing Pseudomonas aeruginosa: cloning and characterization of fumC and purification of native fumC. Hassett DJ, et al. **J Bacteriol** 1997 Mar;179(5):1442–51

Mutations of fumarase that distinguish between the active site and a nearby dicarboxylic acid binding site. Weaver T, et al. **Protein Sci** 1997 Apr;6(4):834–42

FUMARATES

In vitro degradation of a poly(propylene fumarate)-based composite material. Yaszemski MJ, et al. **Biomaterials** 1996 Nov;17(22):2127–30

ADMINISTRATION & DOSAGE

Retention and utilization of amino acids in piglets fed ad libitum or restrictively diets supplemented with organic acids. Walz OP, et al. **Arch Tierernahr** 1997;50(3):227–38

ANALYSIS

Use of ion chromatography for monitoring microbial spoilage in the fruit juice industry. Trifirò A, et al. **J Chromatogr A** 1997 May 16;770(1–2):243–52

CHEMISTRY

Restructuring the active site of fumarase for the fumarate to malate reaction. Rose IA. **Biochemistry** 1997 Oct 7; 36(40):12346–54

Biodegradable bone cement compositions based on acrylate and epoxide terminated poly(propylene fumarate) oligomers and calcium salt compositions. Domb AJ, et al. **Biomaterials** 1996 Feb;17(4):411–7

Schizostatin, a novel squalene synthase inhibitor produced by the mushroom, Schizophyllum commune. II. Structure elucidation and total synthesis. Kogen H, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):624–30

Schizostatin, a novel squalene synthase inhibitor produced by the mushroom, Schizophyllum commune. I. Taxonomy, fermentation, isolation, physico-chemical properties and biological activities. Tanimoto T, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):617–23

The use of differential transverse relaxation to detect mobile species in solids. Gerstein BC, et al. **Solid State Nucl Magn Reson** 1996 Feb;6(1):63–71

ISOLATION & PURIFICATION

Fumaric acid, anti-thrombin substance from Rhizopus javanicus. Okamura T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr;43(2):241–7

METABOLISM

Effects and metabolism of fumarate in the perfused rat heart. A 13C mass isotopomer study. Laplante A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E74–82

Benzylfumaric, benzylmaleic, and Z- and E-phenylitaconic acids: synthesis, characterization, and correlation with a metabolite generated by Azoarcus tolulyticus Tol-4 during anaerobic toluene degradation. Migaud ME, et al. **Appl Environ Microbiol** 1996 Mar;62(3):974–8

Requirement for the proton-pumping NADH dehydrogenase I of Escherichia coli in respiration of NADH to fumarate and its bioenergetic implications. Tran QH, et al. **Eur J Biochem** 1997 Feb 15;244(1):155–60

Anaerobic activation of toluene and o-xylene by addition to fumarate in denitrifying strain T. Beller HR, et al. **J Bacteriol** 1997 Feb;179(3):670–6

Phosphorylation-independent bacterial chemoresponses correlate with changes in the cytoplasmic level of fumarate. Montrone M, et al. **J Bacteriol** 1996 Dec;178(23):6882–7

Cloning and sequence of cymA, a gene encoding a tetraheme cytochrome c required for reduction of iron(III), fumarate, and nitrate by Shewanella putrefaciens MR-1. Myers CR, et al. **J Bacteriol** 1997 Feb;179(4):1143–52

PHARMACOLOGY

Effects and metabolism of fumarate in the perfused rat heart. A 13C mass isotopomer study. Laplante A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E74–82

Dimethylfumarate is an inhibitor of cytokine-induced E-selectin, VCAM-1, and ICAM-1 expression in human endothelial cells. Vandermeeren M, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):19–23

Intracellular signalling by binding sites for the antipsoriatic agent monomethylfumarate on human granulocytes. Nibbering PH, et al. **Br J Dermatol** 1997 Jul;137(1):65–75

Effects of organic acid and monensin treatment on in vitro mixed ruminal microorganism fermentation of cracked corn. Callaway TR, et al. **J Anim Sci** 1996 Aug; 74(8):1982–9

Schizostatin, a novel squalene synthase inhibitor produced by the mushroom, Schizophyllum commune. I. Taxonomy, fermentation, isolation, physico-chemical properties and biological activities. Tanimoto T, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):617–23

Reduction of dopamine beta-monooxygenase. A unified model for apparent negative cooperativity and fumarate activation. Wimalasena K, et al. **J Biol Chem** 1996 Oct 18;271(42):26032–43

The specificity of fumarate as a switching factor of the bacterial flagellar motor. Barak R, et al. **Mol Microbiol** 1996 Jan;19(1):139–44

THERAPEUTIC USE

The effect of fumaric acid esters and dithranol on acanthosis and hyperproliferation in psoriasis vulgaris. Bacharach-Buhles M, et al. **Acta Derm Venereol** 1996 May; 76(3):190–3

FUMARIC AMINASE see **ASPARTATE AMMONIA-LYASE**

FUMIGATION

Association of fallout radiocesium with soil constituents: effect of sterilization of forest soils by fumigation with chloroform. Baumann A, et al. **Radiat Environ Biophys** 1996 Aug;35(3):229–33

ADVERSE EFFECTS

Scanning electron microscopy of the respiratory epithelium of chicks fumigated with formaldehyde vapour. Fauziah O, et al. **Br Poult Sci** 1996 Jul;37(3):563–70

Vocal fold masses related to inhalation of fumes. Sataloff RT, et al. **Ear Nose Throat J** 1996 Aug;75(8):456–8

FUNCTIONAL RESIDUAL CAPACITY

Reliability of inspiratory capacity for estimating end-expiratory lung volume changes during exercise in patients with chronic obstructive pulmonary disease. Yan S, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):55–9

Arterial blood gas changes during breath-holding from functional residual capacity. Sasse SA, et al. **Chest** 1996 Oct;110(4):958–64

Pulmonary hyperinflation a clinical overview. Gibson GJ. **Eur Respir J** 1996 Dec;9(12):2640–9 (70 ref.)

Lung lavage with a saline volume similar to functional residual capacity followed by surfactant administration in newborns with severe meconium aspiration syndrome. Mosca F, et al. **Intensive Care Med** 1996 Dec;22(12):1412–3

Comparison of heliox and oxygen as washing gases for the nitrogen washout technique in preterm infants. Poets CF, et al. **Pediatr Res** 1996 Jun;39(6):1099–1102

[Acute, arterial hypoxia: a new method in diagnosis and O2 administration (editorial)] Mertzlufft F, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):368–70 **(Ger)**

[Measurements of residual volume and total lung capacity] Endo K. **Nippon Rinsho** 1997 Apr;55 Suppl 2:12–4 (2 ref.) **(Jpn)**

[Plethysmographic measurement of thoracic gas volume] Kimura T, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:8–11 (10 ref.) **(Jpn)**

PHYSIOLOGY

Relationship between transdiaphragmatic and mouth twitch pressures at functional residual capacity. Laghi F, et al. **Eur Respir J** 1997 Mar;10(3):530–6

Functional residual capacity in healthy preschool children. Pauwels JH, et al. **Eur Respir J** 1996 Nov;9(11):2224–30

Lung hyperinflation and flow limitation in chronic airway obstruction. Pellegrino R, et al. **Eur Respir J** 1997 Mar; 10(3):543–9

The influence of sleeping position on functional residual capacity and effective pulmonary blood flow in healthy neonates. Aiton NR, et al. **Pediatr Pulmonol** 1996 Dec; 22(6):342–7

Modification of the open circuit N2 washout technique for measurement of functional residual capacity in premature infants. Hentschel R, et al. **Pediatr Pulmonol** 1997 Jun; 23(6):434–41

FUNCTIONALLY-IMPAIRED ELDERLY see **FRAIL ELDERLY**

FUND RAISING

Philanthropy. Smith WL. **Acad Radiol** 1996 Jul;3(7):611–2

Cancer charity's rehabilitation set back [news] Balter M. **Science** 1996 Oct 18;274(5286):336

[Effects of a TV mental health campaign 1992] Søgaard AJ, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2467–72 (Eng. Abstr.) **(Nor)**

[The integral bed fund of a territory] Koretskiĭ VL, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):34–5 (Eng. Abstr.) **(Rus)**

ECONOMICS

Early evaluation results of a collaborative partnership. Everett W, et al. **Health Aff (Millwood)** 1996 Spring; 15(1):210–2

METHODS

Life after funding: a strategy for survival of a program to prevent substance abuse. Clapp JD, et al. **J Am Coll Health** 1996 Sep;45(2):79–81

Financing [editorial; comment] Waddington C. **Trop Doct** 1996 Oct;26(4):145–6. Comment on: Trop Doct 1996 Oct;26(4):177–9.

ORGANIZATION & ADMINISTRATION

Move to "more corporate" health care system may affect hospital donations. Stewart J. **CMAJ** 1997 Jul 15; 157(2):189–90

Sharing the responsibility [editorial] Laney WR. **Int J Oral Maxillofac Implants** 1996 Jan–Feb;11(1):9

An integrated approach to health care financing—the case of Chogoria Hospital [see comments] Sammon AM.

Trop Doct 1996 Oct;26(4):177–9. Comment in: Trop Doct 1996 Oct;26(4):145–6.

STANDARDS

New guidelines for drug donations [news] **Int Nurs Rev** 1996 Jul–Aug;43(4):99

FUNDAMENTAL PARTICLES see **ELEMENTARY PARTICLES**

FUNDING, CAPITAL see **CAPITAL FINANCING**

FUNDOPLICATION

CT of Nissen's fundoplication. Pavone P, et al. **Abdom Imaging** 1997 Sep–Oct;22(5):457–60

The "long-term" follow-up of laparoscopic fundoplication: an evolving perspective. Gadenstätter M. **Am J Gastroenterol** 1996 Nov;91(11):2445–6

Preoperative endoscopic grading of esophagitis versus outcome after laparoscopic Nissen fundoplication. Watson DI, et al. **Am J Gastroenterol** 1997 Feb;92(2):222–5

Evaluation and management of postfundoplication dysphagia. Wo JM, et al. **Am J Gastroenterol** 1996 Nov;91(11):2318–22

Parietal cell vagotomy performed with fundoplication for esophageal reflux. Jordan PH Jr, et al. **Am J Surg** 1997 Apr;173(4):264–9

Simultaneous correction of malrotation and gastroesophageal reflux in infants. Chung C, et al. **Am Surg** 1996 Oct; 62(10):800–2

Laparoscopic esophageal myotomy and anterior partial fundoplication for the treatment of achalasia. Graham AJ, et al. **Ann Thorac Surg** 1997 Sep;64(3):785–9

Nissen fundoplication prevents shortening of the sphincter during gastric distention. Mason RJ, et al. **Arch Surg** 1997 Jul;132(7):719–24; discussion 724–6

Fundoplication in children: experience with 106 cases. Spillane AJ, et al. **Aust N Z J Surg** 1996 Nov;66(11):753–6

Effect of fundoplication on transient lower oesophageal sphincter relaxation and gas reflux. Johnsson F, et al. **Br J Surg** 1997 May;84(5):686–9

Indications, benefits and outcome of laparoscopic Nissen fundoplication [see comments] Peters JH, et al. **Dig Dis** 1996 May–Jun;14(3):169–79 (35 ref.). Comment in: Dig Dis 1996 May–Jun;14(3):129–31.

Menu for successful antireflux surgery [editorial; comment] Richter JE. **Dig Dis** 1996 May–Jun;14(3):129–31. Comment on: Dig Dis 1996 May–Jun;14(3):169–79.

Reoperation after failed antireflex surgery. Review of 101 cases. Ellis FH Jr, et al. **Eur J Cardiothorac Surg** 1996; 10(4):225–31; discussion 231–2

Development of adenocarcinoma in Barrett's oesophagus after successful antireflux surgery. Håkansson HO, et al. **Eur J Surg** 1997 Jun;163(6):469–71

Is the only good H. pylori a dead H. pylori? Fennerty MB. **Gastroenterology** 1996 Dec;111(6):1773–4

Choice of long-term strategy for the management of patients with severe esophagitis: a cost-utility analysis. Heudebert GR, et al. **Gastroenterology** 1997 Apr;112(4):1078–86

Outcome of laparoscopic Nissen fundoplication in patients with disordered preoperative peristalsis. Baigrie RJ, et al. **Gut** 1997 Mar;40(3):381–5

One year follow-up results in the surgical treatment of gastroesophageal reflux disease. Nano M, et al. **Int Surg** 1996 Jan–Mar;81(1):27–31

Function of pediatric Nissen–Rossetti fundoplication followed up into adolescence and adulthood. Bergmeijer JH, et al. **J Am Coll Surg** 1997 Mar;184(3):259–61

The impact of omeprazole and laparoscopy upon hiatal hernia and reflux esophagitis. McKenzie D, et al. **J Am Coll Surg** 1996 Oct;183(4):413–8 (46 ref.)

Thoracoscopic repair of hiatal hernia following fundoplication: a new approach to an old problem. Sartotelli KH, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S91–3

Incisional hernia in a 5-mm trocar site following pediatric laparoscopy. Waldhaussen JH. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S89–90

Laparoscopic Heller's cardiomyotomy and Dor's fundoplication for esophageal achalasia. Xynos E, et al. **J Laparoendosc Surg** 1996 Aug;6(4):253–8

The learning curve associated with laparoscopic antireflux surgery in infants and children. Meehan JJ, et al. **J Pediatr Surg** 1997 Mar;32(3):426–9

Diaphragmatic hernia and associated anemia: response to surgical treatment. Trastek VF, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1340–4; discussion 1344–5

Epidural analgesia improves outcome following pediatric fundoplication. A retrospective analysis. McNeely JK, et al. **Reg Anesth** 1997 Jan–Feb;22(1):16–23

Pathophysiology in gastroesophageal reflux disease: the surgeon's view. Hallerbäck B, et al. **Scand J Gastroenterol Suppl** 1996;220:60–2

Prosthetic reinforcement of posterior cruroplasty during laparoscopic hiatal herniorrhaphy. Frantzides CT, et al. **Surg Endosc** 1997 Jul;11(7):769–71

Nissen and Toupet fundoplications effectively inhibit gastroesophageal reflux irrespective of natural anatomy and function. Richardson WS, et al. **Surg Endosc** 1997 Mar; 11(3):261–3

Laparoscopic Nissen fundoplication for gastroesophageal reflux disease: clinical experience and outcome in first 100 patients. Cattey RP, et al. **Surg Laparosc Endosc** 1996 Dec; 6(6):430–3

Increased mediastinal pressure and decreased cardiac output during laparoscopic Nissen fundoplication. Talamini MA, et al. **Surgery** 1997 Aug;122(2):345–52; discussion 352–3

Laparoscopic operation for treatment of gastroesophageal reflux. Sinanan M, et al. **West J Med** 1996 Feb;164(2):163

Laparoscopic fundoplication: the alternative to long-term medical therapy for severe gastroesophageal reflux disease. Perdikis G, et al. **Yale J Biol Med** 1996 May–Jun; 69(3):283–8 (29 ref.)

[Laparoscopic fundoplication] Neoral C, et al. **Rozhl Chir** 1996 Jul;75(7):345–8 (Eng. Abstr.) **(Cze)**

[Laparoscopic fundoplication in gastroesophageal reflux] Jensen PM, et al. **Ugeskr Laeger** 1997 Jan 27;159(5):577–81 (Eng. Abstr.) **(Dan)**

[Peroperative manometric evaluation of posterior fundoplication by celioscopy] Slim K, et al. **Chirurgie** 1997; 122(2):144–8 (Eng. Abstr.) **(Fre)**

ADVERSE EFFECTS

Paraoesophageal hernia with acute intrathoracic volvulus of the stomach after laparoscopic Nissen fundoplication. Yvergneaux JP, et al. **Acta Chir Belg** 1996 Nov–Dec; 96(6):280–3

Fluoroscopic diagnosis of complications after Nissen antireflux fundoplication in children. Trinh TD, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1023–8

Gastroparesis: a potential pitfall of laparoscopic Nissen fundoplication. Hunter RJ, et al. **Am J Gastroenterol** 1996 Dec;91(12):2617–8

Gastro-aortic fistula: an uncommon complication of Nissen fundoplication. Wasvary H, et al. **Am Surg** 1997 May; 63(5):455–8

Laparoscopic Nissen fundoplication and postoperative dysphagia–can it be predicted? Gotley DC, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):646–9

Tension-free fundoplication can be performed without greater curvature mobilization [letter; comment] Yvergneaux JP, et al. **Ann Surg** 1997 Jul;226(1):109–10. Comment on: Ann Surg 1996 Jul;224(1):51–7.

Pneumothorax during laparoscopic mobilization of the oesophagus. Watson DI, et al. **Aust N Z J Surg** 1996 Oct; 66(10):711–2

Vascular perils during laparoscopic dissection of the oesophageal hiatus. Baigrie RJ, et al. **Br J Surg** 1997 Apr; 84(4):556–7

Pitfalls and complications of antireflux surgery. Nissen and Collis–Nissen techniques. Ferguson MK. **Chest Surg Clin N Am** 1997 Aug;7(3):489–509; discussion 510–1 (85 ref.)

Complications and pitfalls: Belsey and Collis–Belsey antireflux repairs. Pearson FG. **Chest Surg Clin N Am** 1997 Aug;7(3):513–32 (3 ref.)

Breakdown of gastric staple line as a complication of the uncut Collis–Nissen fundoplication in children. Liacouras CA, et al. **J Clin Gastroenterol** 1996 Oct;23(3):174–6

Dumping syndrome following Nissen fundoplication, diagnosis, and treatment. Samuk I, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):235–40

Mechanisms and avoidance of esophageal perforation by anesthesia personnel during laparoscopic foregut surgery. Lowham AS, et al. **Surg Endosc** 1996 Oct;10(10):979–82

Prospective evaluation of dysphagia before and after laparoscopic Nissen fundoplication without routine division of short gastrics. Anvari M, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):424–9

Ventricular laceration and cardiac tamponade during laparoscopic Nissen fundoplication. Firoozmand E, et al. **Surg Laparosc Endosc** 1996 Oct;6(5):394–7 (10 ref.)

Reactive pleuropericarditis following laparoscopic fundoplication. Viste A, et al. **Surg Laparosc Endosc** 1997 Jun;7(3):206–8

[Iatrogenic diaphragmatic hernia following abdominal esophagogastrofundoplication: report of a case] Sancho LM, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Nov–Dec;51(6):250–2 (Eng. Abstr.) **(Por)**

ECONOMICS

Cost effectiveness of medical versus surgical treatment in patients with severe or refractory gastroesophageal reflux disease in the Netherlands. Van Den Boom G, et al. **Scand J Gastroenterol** 1996 Jan;31(1):1–9

HISTORY

[The 100th birthday of Rudolf Nissen] Liebermann-Meffert D, et al. **Chirurg** 1996 Oct;67(10):1053–9 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Laparoscopic Nissen fundoplication for hiatus hernia: a case report. Teh CH, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):717–9

Laparoscopic Nissen fundoplication with fibrin glue: experimental study on pigs. Lima M, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):4–7

Antireflux operations at flexible endoscopy using endoluminal stitching techniques: an experimental study. Kadirkamanathan SS, et al. **Gastrointest Endosc** 1996 Aug; 44(2):133–43

Safe insertion of the bougie for esophageal surgery [letter] Thangathurai D, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):125–6

[Simplified laparoscopic surgery in reflux disease by a modified polyglactin scarf] Willmen HR. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:614–6 (Eng. Abstr.) **(Ger)**

METHODS

Equality of efficacy for open and laparoscopic antireflux repair? Nehra D. **Am J Gastroenterol** 1997 Jul;92(7):1235–6

Comparison of total versus partial laparoscopic fundoplication in the management of gastroesophageal reflux disease. Karim SS, et al. **Am J Surg** 1997 May; 173(5):375–8

Laparoscopic treatment of gastroesophageal reflux disease. Alexander HC, et al. **Am Surg** 1997 May;63(5):434–40

Laparoscopic Heller myotomy and fundoplication for achalasia. Hunter JG, et al. **Ann Surg** 1997 Jun; 225(6):655–64; discussion 664–5

A randomized, prospective comparison of the Nissen fundoplication versus the Toupet fundoplication for gastroesophageal reflux disease. Laws HL, et al. **Ann Surg** 1997 Jun;225(6):647–53; discussion 654

Laparoscopic fundoplication and the aberrant left hepatic artery. Edoga JK, et al. **Arch Surg** 1997 Apr;132(4):448–9

Disruption of experimental fundic folds is prevented by interserosal scarring. Isolauri J, et al. **Br J Surg** 1997 Apr; 84(4):548–50

Evaluation of the antireflux mechanism following laparoscopic fundoplication. Pursnani KG, et al. **Br J Surg** 1997 Aug;84(8):1157–61

Laparoscopic surgery for gastro-oesophageal reflux: beyond the learning curve. Watson DI, et al. **Br J Surg** 1996 Sep; 83(9):1284–7

Comparison of anterior, posterior and total fundoplication using a viscera model. Watson DI, et al. **Dis Esophagus** 1997 Apr;10(2):110–4

The surgical management of Barrett's esophagus. Peters JH. **Gastroenterol Clin North Am** 1997 Sep;26(3):647–68 (53 ref.)

Laparoscopic Nissen fundoplication for severe gastroesophageal reflux disease: pros and cons. DeMaria EJ, et al. **Gastroenterologist** 1997 Mar;5(1):85–93 (27 ref.)

A new intraluminal antigastroesophageal reflux procedure in baboons. Mason RJ, et al. **Gastrointest Endosc** 1997 Mar; 45(3):283–90

Laparoscopic Nissen fundoplication: laparoscopic dissection technique and results. Cadiere GB, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):4–10

Modified Hill operation vs. Nissen fundoplication in the surgical treatment of gastro-esophageal reflux disease. Civello IM, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):380–6

Telementoring: pushing the telemedicine envelope. Rosser J Jr, et al. **J Assoc Acad Minor Phys** 1997;8(1):11–5

Laparoscopic fundoplication in children: our first 30 cases. Longis B, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S21–9

Laparoscopic fundoplication. Medina LT, et al. **J Laparoendosc Surg** 1996 Aug;6(4):219–26

Laparoscopic posterior partial fundoplication: analysis of 100 consecutive cases. O'Reilly MJ, et al. **J Laparoendosc Surg** 1996 Jun;6(3):141–50

Laparoscopic Nissen fundoplication in the infant. Thompson WR, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S5–7

The uncut Collis–Nissen fundoplication: results for 79 consecutively treated high-risk children. Cameron BH, et al. **J Pediatr Surg** 1997 Jun;32(6):887–91

Modified Nissen fundoplication for reduction of fundoplication failure. Price MR, et al. **J Pediatr Surg** 1997 Feb;32(2):324–6; discussion 326–7

Thal fundoplication in neurologically impaired children. Ramachandran V, et al. **J Pediatr Surg** 1996 Jun; 31(6):819–22

Efficacy of partial wrap fundoplication for gastroesophageal reflux after repair of esophageal atresia. Snyder CL, et al. **J Pediatr Surg** 1997 Jul;32(7):1089–91; discussion 1092

Laparoscopic-modified Nissen fundoplication in children with familial dysautonomia. Szold A, et al. **J Pediatr Surg** 1996 Nov;31(11):1560–2

Quality of life assessment after laparoscopic and open fundoplications. Results of a prospective, clinical study. Blomqvist A, et al. **Scand J Gastroenterol** 1996 Nov; 31(11):1052–8

Immediate and delayed effects of laparoscopic Nissen fundoplication on pulmonary function. Anvari M, et al. **Surg Endosc** 1996 Dec;10(12):1171–5

Laparoscopic partial fundoplication vs laparoscopic Nissen–Rosetti fundoplication. Short-term results of 231 cases [see comments] Coster DD, et al. **Surg Endosc** 1997 Jun;11(6):625–31. Comment in: Surg Endosc 1997 Jun;11(6):613–4.

Complete and partial laparoscopic fundoplication for gastroesophageal reflux disease [editorial; comment] Crookes PF, et al. **Surg Endosc** 1997 Jun;11(6):613–4. Comment on: Surg Endosc 1997 Jun;11(6):625–31.

A simplified approach to laparoscopic fundoplication. Ferzli GS, et al. **Surg Endosc** 1997 May;11(5):488–90

Laparoscopic vs conventional Nissen fundoplication. A prospective randomized study. Laine S, et al.

FUNDOPLICATION

Surg Endosc 1997 May;11(5):441–4
Laparoscopic fundoplication in infants and children. Meehan JJ, et al. **Surg Endosc** 1996 Dec;10(12):1154–7
Partial fundoplication for gastroesophageal reflux. Patti MG, et al. **Surg Endosc** 1997 May;11(5):445–8
Laparoscopic gastrostomy as an adjunctive procedure to laparoscopic fundoplication in children. Sampson LK, et al. **Surg Endosc** 1996 Nov;10(11):1106–10
The influence of surgical technique on clinical outcome of laparoscopic Nissen fundoplication. Wu JS, et al.
Surg Endosc 1996 Dec;10(12):1164–69; discussion 1169–70
Laparoscopic esophagomyotomy and antireflux procedure with intraoperative manometry. Decanini TC, et al.
Surg Laparosc Endosc 1996 Oct;6(5):398–402
Laparoscopic management of failed antireflux surgery. O'Reilly MJ, et al. **Surg Laparosc Endosc** 1997 Apr; 7(2):90–3
Laparoscopic Nissen fundoplication: where do we stand? Perdikis G, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):17–21
Fundoplication avoiding complications of the Nissen procedure: prospective evaluation. Pélissier EP, et al.
World J Surg 1997 Jul–Aug;21(6):611–6; discussion 616–7
[The laparoscopic fundoplication technique and postoperative complications] Drahoňovský V, et al.
Rozhl Chir 1997 Mar;76(3):138–43 (Eng. Abstr.) **(Cze)**
[Safe preparation of the hiatus—conditio sine qua non] Kmet L, et al. **Rozhl Chir** 1997 Mar;76(3):144–6 (Eng. Abstr.) **(Cze)**
[Laparoscopic correction of laparoscopic fundoplication failures: 4 cases (editorial)] Champault G, et al. **G Chir** 1997 Mar;18(3):81–6 **(Fre)**
[New directions in the surgical treatment of gastroesophageal reflux. Review of the literature] Bresadola V, et al.
Ann Ital Chir 1997 Mar–Apr;68(2):213–8 (42 ref.) (Eng. Abstr.) **(Ita)**
[Surgical treatment of megaesophagus. Effect of myotomy and fundoplication on the lower esophageal sphincter] Felix VN, et al. **Arq Gastroenterol** 1996 Jan–Mar; 33(1):17–25 (Eng. Abstr.) **(Por)**
[A method of fundoplication in the surgical treatment of reflux esophagitis] Galimov OV, et al.
Vestn Khir Im I I Grek 1997;156(3):47–8 **(Rus)**
[Gastroesophageal reflux: conventional or laparoscopic fundoplication?] Csendes A. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S17–9 **(Spa)**

FUNDULUS see **KILLIFISH**

FUNDUS FLUORESCENCE PHOTOGRAPHY see **FLUORESCEIN ANGIOGRAPHY**

FUNDUS OCULI

see related
OPHTHALMOSCOPY
Pre-term delivery and subsequent ocular development. A 7–10 year follow-up of children screened 1982–84 for ROP. 1) Visual function, slit-lamp findings, and fundus appearance. Fledelius HC. **Acta Ophthalmol Scand** 1996 Jun;74(3):288–93
Autosomal recessive Sorsby fundus dystrophy revisited: molecular evidence for dominant inheritance. Felbor U, et al. **Am J Hum Genet** 1997 Jan;60(1):57–62
Atrophic fundus lesions associated with untreated retinopathy of prematurity. Fishburne BC, et al.
Am J Ophthalmol 1997 Aug;124(2):247–9
Decision matrix analysis for tonic ocular torsional abnormalities with posturography abnormalities. Robertson DD, et al. **Am J Otol** 1996 Sep;17(5):743–8
Ophthaproblem. Angioid streaks. Sharma S.
Can Fam Physician 1997 Jul;43:1217, 1223
Ocular fundus changes in malignant or precocious stroke-prone spontaneously hypertensive rats after administration of antihypertensive drugs. Hamada Y, et al.
Clin Exp Pharmacol Physiol Suppl 1995;1:S132–3
The equine fundus. I: Examination, embryology, structure and function. Crispin SM, et al. **Equine Vet J Suppl** 1990 Sep;(10):42–9
The equine fundus. II: Normal anatomical variants and colobomata. Matthews AG, et al. **Equine Vet J Suppl** 1990 Sep;(10):50–4
The equine fundus. III: Pathological variants. Matthews AG, et al. **Equine Vet J Suppl** 1990 Sep;(10):55–61
Sorsby's fundus dystrophy in the British Isles: demonstration of a striking founder effect by microsatellite-generated haplotypes. Wijesuriya SD, et al. **Genome Res** 1996 Feb; 6(2):92–101
Fundus-controlled examination of reading in eyes with macular pathology. Rohrschneider K, et al.
Ger J Ophthalmol 1996 Sep;5(5):300–7
Fundus pulsation measurements in diabetic retinopathy. Schmetterer L, et al.
Graefes Arch Clin Exp Ophthalmol 1997 May;235(5):283–7
Rod plateaux during dark adaptation in Sorsby's fundus dystrophy and vitamin A deficiency. Cideciyan AV, et al.
Invest Ophthalmol Vis Sci 1997 Aug;38(9):1786–94
Ocular fundus morphology in preterm children. Influence of gestational age, birth size, perinatal morbidity, and postnatal growth. Hellström A, et al.
Invest Ophthalmol Vis Sci 1997 May;38(6):1184–92
Recording multifocal electroretinograms with fundus monitoring. Kondo M, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):1049–52
Fundus autofluorescence in age-related macular disease imaged with a laser scanning ophthalmoscope. von Rückmann A, et al. **Invest Ophthalmol Vis Sci** 1997 Feb; 38(2):478–86
Evaluation of diabetic retinopathy during pregnancy by green monochromatic fundus photography. Axer-Siegel R, et al. **J Diabetes Complications** 1997 May–Jun;11(3):172–5
Determination of the real size of fundus objects from fundus photographs. Coleman AL, et al. **J Glaucoma** 1996 Dec; 5(6):433–5
Evolution of fundus changes in mucormycosis. Newman RM, et al. **J Neuroophthalmol** 1997 Mar;17(1):51–2
Inferior oblique overaction in infantile esotropia: fundus extorsion as a predictive sign. Eustis HS, et al.
J Pediatr Ophthalmol Strabismus 1996 Mar–Apr;33(2):85–8
Fundus morphology assessed by digital image analysis in children with fetal alcohol syndrome. Hellström A, et al.
J Pediatr Ophthalmol Strabismus 1997 Jan–Feb;34(1):17–23
Optic disc in fundus coloboma. Gopal L, et al.
Ophthalmology 1996 Dec;103(12):2120–6; discussion 2126–7
Predicting visual acuity in eyes with fundus colobomas: optic nerve involvement, size, or the fovea? [letter] Olsen TW, et al. **Ophthalmology** 1997 Sep;104(9):1367–8
The use of sodium hyaluronate to view the fundus during vitreous surgery. Lewis JM, et al. **Retina** 1996;16(5):447–9
Clinical applications of fundus reflection densitometry. Liem AT, et al. **Surv Ophthalmol** 1996 Jul–Aug;41(1):37–50 (108 ref.)
Concentrations of biogenic amines in fundal layers in chickens with normal visual experience, deprivation, and after reserpine application. Ohngemach S, et al.
Vis Neurosci 1997 May–Jun;14(3):493–505
[Basic study on evaluation of the fundus with monochromatic photography] Qu J, et al. **Chung Hua Yen Ko Tsa Chih** 1995 Nov;31(6):417–21 (Eng. Abstr.) **(Chi)**
[Postmortem examination of the ocular fundus to determine the time of death] Doležalová V. **Cesk Slov Oftalmol** 1997 Feb;53(1):57–60 (Eng. Abstr.) **(Cze)**
[Retinal vessels before and after photocoagulation in diabetic retinopathy. Determining the diameter using digitized color fundus slides] Remky A, et al.
Klin Monatsbl Augenheilkd 1996 Aug–Sep;209(2–3):79–83 (Eng. Abstr.) **(Ger)**
[Topography of fundus autofluorescence with a new confocal scanning laser ophthalmoscope] Bellmann C, et al.
Ophthalmologe 1997 Jun;94(6):385–91 (Eng. Abstr.) **(Ger)**
[The ocular fundus in ischemic cardiopathy] Borgia MC, et al. **Minerva Cardioangiol** 1997 May;45(5):229–34 (Eng. Abstr.) **(Ita)**
[Fundus hypothermia inhibits retinal damage induced by visible blue light] Mori K, et al.
Nippon Ganka Gakkai Zasshi 1997 Aug;101(8):633–8 (Eng. Abstr.) **(Jpn)**

FUNERAL RITES

Funeral rituals following the death of a child in Taiwan. Gudmundsdottir M, et al. **J Palliat Care** 1996 Spring; 12(1):31–7

HISTORY
The rules of drug taking: wine and poppy derivatives in the ancient world. VII. A ritual use of poppy derivatives? Nencini P. **Subst Use Misuse** 1997 Aug;32(10):1405–15

PSYCHOLOGY
Funerals [letter] Neugut AI. **J Clin Oncol** 1996 Oct; 14(10):2887–8
A memorial service for families of children who died from cancer and blood disorders. Heiney SP, et al.
J Pediatr Oncol Nurs 1996 Apr;13(2):72–9; discussion 80
[Cemeteries and crematoriums for animals? Social and emotional aspects of the changed human-animal relationship and the resulting needs and risks] Ratsch H.
DTW Dtsch Tierarztl Wochenschr 1997 Jul;104(7):261–4 (Eng. Abstr.) **(Ger)**

FUNGAL ANTIBODIES see **ANTIBODIES, FUNGAL**

FUNGAL ANTIGENS see **ANTIGENS, FUNGAL**

FUNGAL COUNT see **COLONY COUNT, MICROBIAL**

FUNGAL DNA see **DNA, FUNGAL**

FUNGAL GENE EXPRESSION REGULATION see **GENE EXPRESSION REGULATION, FUNGAL**

FUNGAL GENE PRODUCTS see **FUNGAL PROTEINS**

FUNGAL GENE PROTEINS see **FUNGAL PROTEINS**

FUNGAL GENES see **GENES, FUNGAL**

FUNGAL GENOME see **GENOME, FUNGAL**

FUNGAL PEPTIDES see **FUNGAL PROTEINS**

FUNGAL PROTEINS

Nomenclature: vertebrate mediators of TGFbeta family signals [letter] Derynck R, et al. **Cell** 1996 Oct 18;87(2):173
Distinct expression patterns detected within individual tissues by the GAL4 enhancer trap technique. Gustafson K, et al. **Genome** 1996 Feb;39(1):174–82
RNA polymerase III and class III transcription factors from Saccharomyces cerevisiae. Huet J, et al.
Methods Enzymol 1996;273:249–67 (70 ref.)
Complete inventory of the yeast ABC proteins. Decottignies A, et al. **Nat Genet** 1997 Feb;15(2):137–45
The role of MCM/P1 proteins in the licensing of DNA replication. Chong JP, et al. **Trends Biochem Sci** 1996 Mar; 21(3):102–6 (35 ref.)
[Adenylyl cyclase associated protein (CAP) and their homologs] Kawamukai M. **Seikagaku** 1996 Jan;68(1):31–5 (14 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE
Paracoccidioides brasiliensis-gp43 used as paracoccidioidin. Saraiva EC, et al. **J Med Vet Mycol** 1996 Jun–Jul; 34(3):155–61

ANALYSIS
Quantitation of membrane proteins in reconstituted vesicles prepared from yeast. Brodsky JL. **Anal Biochem** 1997 Mar 15;246(2):262–3
Dictyostelium protein kinase C-delta-like protein is localized in the cell nucleus. Wang Y, et al. **Biol Cell** 1996; 86(2–3):103–9
The yeast spindle pole body is assembled around a central crystal of Spc42p. Bullitt E, et al. **Cell** 1997 Jun 27; 89(7):1077–86
Coronin and vacuolin identify consecutive stages of a late, actin-coated endocytic compartment in Dictyostelium. Rauchenberger R, et al. **Curr Biol** 1997 Mar 1;7(3):215–8
High sensitivity identification of proteins by electrospray ionization tandem mass spectrometry: initial comparison between an ion trap mass spectrometer and a triple quadrupole mass spectrometer. Figeys D, et al.
Electrophoresis 1997 Mar–Apr;18(3–4):360–8
Analysis of host-induced response in the rice blast fungus Magnaporthe grisea using two-dimensional polyacrylamide gel electrophoresis. Kachroo P, et al. **Electrophoresis** 1997 Jan;18(1):163–9
Identification of two-dimensional gel electrophoresis resolved yeast proteins by matrix-assisted laser desorption ionization mass spectrometry. Larsson T, et al.
Electrophoresis 1997 Mar–Apr;18(3–4):418–23
The Dictyostelium discoideum proteome—the SWISS-2DPAGE database of the multicellular aggregate (slug). Yan JX, et al. **Electrophoresis** 1997 Mar–Apr; 18(3–4):491–7
Immunological identification and localization of yeast aspartic protease 3-like prohormone-processing enzymes in mammalian brain and pituitary. Cawley NX, et al.
Endocrinology 1996 Nov;137(11):5135–43
Identification and localization of the sod2 gene product in fission yeast. Dibrov P, et al. **FEBS Lett** 1997 Mar 17; 405(1):119–24
The clustering of telomeres and colocalization with Rap1, Sir3, and Sir4 proteins in wild-type Saccharomyces cerevisiae. Gotta M, et al. **J Cell Biol** 1996 Sep; 134(6):1349–63
Targeting of chitin synthase 3 to polarized growth sites in yeast requires Chs5p and Myo2p. Santos B, et al.
J Cell Biol 1997 Jan 13;136(1):95–110
The yeast Red1 protein localizes to the cores of meiotic chromosomes. Smith AV, et al. **J Cell Biol** 1997 Mar 10; 136(5):957–67
Micro-scale extraction procedure for standardized screening of fungal metabolite production in cultures. Smedsgaard J. **J Chromatogr A** 1997 Jan 31;760(2):264–70
Western immunoblot analysis of protein antigens of Penicillium marneffei. Vanittanakom N, et al.
J Med Vet Mycol 1997 Mar–Apr;35(2):123–31
Electrophoretic analysis of yeast proteins. Grant CM, et al.
Methods Mol Biol 1996;53:259–67 (8 ref.)
A large protein complex containing the yeast Sin3p and Rpd3p transcriptional regulators. Kasten MM, et al.
Mol Cell Biol 1997 Aug;17(8):4852–8
hMre11 and hRad50 nuclear foci are induced during the normal cellular response to DNA double-strand breaks. Maser RS, et al. **Mol Cell Biol** 1997 Oct;17(10):6087–96
Isolation and characterization of mitochondrial nucleoids from the yeast Pichia jadinii. Miyakawa I, et al.
Plant Cell Physiol 1996 Sep;37(6):816–24
Identification of proteins of the yeast protein map using genetically manipulated strains and peptide-mass fingerprinting. Sagliocco F, et al. **Yeast** 1996 Dec; 12(15):1519–33
Identification and preliminary characterization of p31, a new PSTAIRE-related protein in fission yeast. Tournier S, et al. **Yeast** 1997 Jun 30;13(8):727–34

ANTAGONISTS & INHIBITORS
N-Ethylmaleimide inactivates a nucleotide-free Hsp70 molecular chaperone. Liu Q, et al. **J Biol Chem** 1996 Nov 22;271(47):29937–44
Thioredoxin reductase-dependent inhibition of MCB cell

cycle box activity in Saccharomyces cerevisiae. Machado AK, et al. **J Biol Chem** 1997 Jul 4;272(27):17045–54

BIOSYNTHESIS

Production of a recombinant protein from Alternaria containing the reported N-terminal of the Alt a1 allergen. Barnes CS, et al. **Adv Exp Med Biol** 1996;409:197–203

Secretory heat-shock protein of the thermotolerant yeast Hansenula polymorpha. Identification and comparative characteristics. Tsiomenko AB, et al. **Biochemistry (Mosc)** 1997 Feb;62(2):123–8

Circadian pacemakers blowing hot and cold—but they're clocks, not thermometers. Hall JC. **Cell** 1997 Jul 11; 90(1):9–12 (22 ref.)

Translational thermotolerance in Saccharomyces cerevisiae. Hallberg EM, et al. **Cell Stress Chaperones** 1996 Apr; 1(1):70–7

Signaling toward yeast 1,3-beta-glucan synthesis. Inoue SB, et al. **Cell Struct Funct** 1996 Oct;21(5):395–402 (58 ref.)

Translational activator proteins required for cytochrome b synthesis in Saccharomyces cerevisiae. Rödel G. **Curr Genet** 1997 May;31(5):375–9 (56 ref.)

Cell-density-dependent repression of discoidin in Dictyostelium discoideum. Wetterauer BW, et al. **Differentiation** 1995 Dec;59(5):289–97

A single expression site with a conserved leader sequence regulates variation of expression of the Pneumocystis carinii family of major surface glycoprotein genes. Edman JC, et al. **DNA Cell Biol** 1996 Nov;15(11):989–99

Protein quality—a determinant of the intracellular fate of membrane-bound cytochromes P450 in yeast. Zimmer T, et al. **DNA Cell Biol** 1997 Apr;16(4):501–14

Analysis of host-induced response in the rice blast fungus Magnaporthe grisea using two-dimensional polyacrylamide gel electrophoresis. Kachroo P, et al. **Electrophoresis** 1997 Jan;18(1):163–9

In vivo commitment to splicing in yeast involves the nucleotide upstream from the branch site conserved sequence and the Mud2 protein. Rain JC, et al. **EMBO J** 1997 Apr 1;16(7):1759–71

Identification and characterization of homologues of the Exocyst component Sec10p. Guo W, et al. **FEBS Lett** 1997 Mar 10;404(2-3):135–9

Stress proteins and stress tolerance in an Antarctic, psychrophilic yeast, Candida psychrophila. Deegenaars ML, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):191–6

Protein expression during exponential growth in 0.7 M NaCl medium of Saccharomyces cerevisiae. Norbeck J, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):1–8

Engineering Pichia pastoris for biocatalysis: co-production of two active enzymes. Payne MS, et al. **Gene** 1997 Jul 31;194(2):179–82

Restrictive glycosylphosphatidylinositol anchor synthesis in cwh6/gpi3 yeast cells causes aberrant biogenesis of cell wall proteins. Vossen JH, et al. **J Bacteriol** 1997 Apr; 179(7):2202–9

Cell cycle-dependent transcription of CLN1 involves swi4 binding to MCB-like elements. Partridge JF, et al. **J Biol Chem** 1997 Apr 4;272(14):9071–7

Homeostatic regulation of copper uptake in yeast via direct binding of MAC1 protein to upstream regulatory sequences of FRE1 and CTR1. Yamaguchi-Iwai Y, et al. **J Biol Chem** 1997 Jul 11;272(28):17711–8

Molecular cloning of a Rho family, CDC42Ca gene from Candida albicans and its mRNA expression changes during morphogenesis. Mirbod F, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):173–9

Protein synthesis patterns of Paracoccidiodes brasiliensis isolates in stage-specific forms and during cellular differentiation. Salem-Izacc SM, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):205–11

Characterization of spindle assembly checkpoint in Xenopus egg extracts. Chen RH, et al. **Methods Enzymol** 1997; 283:572–84

Preparation of active Cdc7/Dbf4 kinase from yeast cells. Dixon WJ, et al. **Methods Enzymol** 1997;283:390–7

Genetic strategies for identification of mitochondrial translation factors in Saccharomyces cerevisiae. Fox TD. **Methods Enzymol** 1996;264:228–37

In organello mitochondrial protein and RNA synthesis systems from Saccharomyces cerevisiae. Poyton RO, et al. **Methods Enzymol** 1996;264:36–42

High cAMP levels antagonize the reprogramming of gene expression that occurs at the diauxic shift in Saccharomyces cerevisiae. Boy-Marcotte E, et al. **Microbiology** 1996 Mar; 142 (Pt 3):459–67

Filamentous growth of the budding yeast Saccharomyces cerevisiae induced by overexpression of the WHi2 gene. Radcliffe PA, et al. **Microbiology** 1997 Jun;143 (Pt 6):1867–76

The transcription factor Swi5 regulates expression of the cyclin kinase inhibitor p40SIC1. Knapp D, et al. **Mol Cell Biol** 1996 Oct;16(10):5701–7

Rpo26p, a subunit common to yeast RNA polymerases, is essential for the assembly of RNA polymerases I and II and for the stability of the largest subunits of these enzymes. Nouraini S, et al. **Mol Cell Biol** 1996 Nov;16(11):5985–96

Combinatorial regulation of the Saccharomyces cerevisiae CAR1 (arginase) promoter in response to multiple environmental signals. Smart WC, et al. **Mol Cell Biol** 1996 Oct;16(10):5876–87

Identification and characterization of mutations in the UPF1 gene that affect nonsense suppression and the formation of the Upf protein complex but not mRNA turnover. Weng Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5491–506

Lack of association between cerato-ulmin production and virulence in Ophiostoma novo-ulmi. Bowden CG, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):556–64

A gene encoding a protein elicitor of Phytophthora infestans is down-regulated during infection of potato. Kamoun S, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):13–20

The biotrophic fungus Cladosporium fulvum circumvents Cf-4-mediated resistance by producing unstable AVR4 elicitors. Joosten MH, et al. **Plant Cell** 1997 Mar; 9(3):367–79

A glucocorticoid-mediated transcriptional induction system in transgenic plants. Aoyama T, et al. **Plant J** 1997 Mar; 11(3):605–12

Extensive alteration of fungal gene transcript accumulation and elevation of G-protein-regulated cAMP levels by a virulence-attenuating hypovirus. Chen B, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7996–8000

Identification of fission yeast nuclear markers using random polypeptide fusions with green fluorescent protein. Sawin KE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15146–51

Overexpression and characterization of Aspergillus awamori wild-type and mutant glucoamylase secreted by the methylotrophic yeast Pichia pastoris: comparison with wild-type recombinant glucoamylase produced using Saccharomyces cerevisiae and Aspergillus niger as hosts. Fierobe HP, et al. **Protein Expr Purif** 1997 Mar;9(2):159–70

Solid state production of a Mucor bacilliformis acid protease. Fernández Lahore HM, et al. **Rev Argent Microbiol** 1997 Jan-Mar;29(1):1–6

Enhancement of protein secretion in Saccharomyces cerevisiae by overproduction of Sso protein, a late-acting component of the secretory machinery. Ruohonen L, et al. **Yeast** 1997 Mar 30;13(4):337–51

[Effect of culture conditions on the production of cellulases by Trametes trogii] Levin L, et al. **Rev Argent Microbiol** 1997 Jan-Mar;29(1):16–23 (Eng. Abstr.) **(Spa)**

CHEMISTRY

A rapid method for the preparation of yeast lysates that facilitates the immunodetection of proteins generated by the yeast two-hybrid system. Langlands K, et al. **Anal Biochem** 1997 Jul 1;249(2):250–2

Isotherms for adsorption of cellobiohydrolase I and II from Trichoderma reesei on microcrystalline cellulose. Medve J, et al. **Appl Biochem Biotechnol** 1997 Apr;66(1):39–56

Resonance Raman spectroscopic studies of cellobiose dehydrogenase from Phanerochaete chrysosporium. Cohen JD, et al. **Arch Biochem Biophys** 1997 May 15;341(2):321–8

Differential profiles of soluble proteins during the initiation of morphogenesis in Candida albicans. Niimi M, et al. **Arch Microbiol** 1996 Oct;166(4):260–8

The yeast nucleoporin Nsp1 binds nuclear localization sequences in vitro. Barth W, et al. **Biochem Cell Biol** 1996; 74(3):363–72

Proteins P1, P2, and P0, components of the eukaryotic ribosome stalk. New structural and functional aspects. Remacha M, et al. **Biochem Cell Biol** 1995 Nov-Dec; 73(11-12):959–68 (49 ref.)

The beta-D-xylosidase of Trichoderma reesei is a multifunctional beta-D-xylan xylohydrolase. Herrmann MC, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):375–81

Purification and partial characterization of a fatty acid-binding protein from the yeast, Yarrowia lipolytica. Dell'Angelica EC, et al. **Biochem Mol Biol Int** 1996 Jun; 39(3):439–45

Analysis of the physical properties and molecular modeling of Sec13: A WD repeat protein involved in vesicular traffic. Saxena K, et al. **Biochemistry** 1996 Dec 3;35(48):15215–21

Structure of the Fusarium oxysporum endoglucanase I with a nonhydrolyzable substrate analogue: substrate distortion gives rise to the preferred axial orientation for the leaving group. Sulzenbacher G, et al. **Biochemistry** 1996 Dec 3; 35(48):15280–7

Structure of the endoglucanase I from Fusarium oxysporum: native, cellobiose, and 3,4-epoxybutyl beta-D-cellobioside-inhibited forms, at 2.3 A resolution. Sulzenbacher G, et al. **Biochemistry** 1997 May 13; 36(19):5902–11

A major agonist-regulated capping activity in Dictyostelium is due to the capping protein, cap32/34. Eddy RJ, et al. **Biochim Biophys Acta** 1996 Dec 12;1314(3):247–59

Characterization of a natural larger form of the antifungal protein (AFP) from Aspergillus giganteus. Martínez-Ruiz A, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):81–7

Structural studies on myosin II: communication between distant protein domains. Gulick AM, et al. **Bioessays** 1997 Jul;19(7):561–9 (62 ref.)

Thermal unfolding in a GCN4-like leucine zipper: 13C alpha NMR chemical shifts and local unfolding curves. Holtzer ME, et al. **Biophys J** 1997 Aug;73(2):1031–41

NMR spectroscopy and X-ray crystallography provide complementary information on the structure and dynamics of leucine zippers [letter] King GF. **Biophys J** 1996 Aug; 71(2):1152–4

Molecular resolution imaging of macromolecular crystals by atomic force microscopy. Kuznetsov YuG, et al. **Biophys J** 1997 May;72(5):2357–64

Use of the two-hybrid system and random sonicated DNA to identify the interaction domain of a protein. Stagljar I, et al. **Biotechniques** 1996 Sep;21(3):430–2

Self-seeded fibers formed by Sup35, the protein determinant of [PSI+], a heritable prion-like factor of S. cerevisiae. Glover JR, et al. **Cell** 1997 May 30;89(5):811–9

Import and folding of proteins by mitochondria. Lithgow T, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:609–17 (75 ref.)

Fibronectin type III domains in yeast detected by a hidden Markov model [letter] Bateman A, et al. **Curr Biol** 1996 Dec 1;6(12):1544–7

A comparison of the nucleotide sequence of the cerato-ulmin gene and the rDNA ITS between aggressive and non-aggressive isolates of Ophiostoma ulmi sensu lato, the causal agent of Dutch elm disease. Jeng R, et al. **Curr Genet** 1996 Jan;29(2):168–73

Cloning and characterization of a Schizophyllum gene with A beta 6 mating-type activity. Shen GP, et al. **Curr Genet** 1996 Jan;29(2):136–42

Two-dimensional gel protein database of Saccharomyces cerevisiae. Boucherie H, et al. **Electrophoresis** 1996 Nov; 17(11):1683–99

Two functionally distinct domains generated by in vivo cleavage of Nup145p: a novel biogenesis pathway for nucleoporins. Teixeira MT, et al. **EMBO J** 1997 Aug 15; 16(16):5086–97

Structural characterization of N-linked oligosaccharides from cellobiohydrolase I secreted by the filamentous fungus Trichoderma reesei RUTC 30. Maras M, et al. **Eur J Biochem** 1997 May 1;245(3):617–25

The complete cDNA sequence and expression of the first major allergenic protein of Malassezia furfur, Mal f 1. Schmidt M, et al. **Eur J Biochem** 1997 May 15;246(1):181–5

Regulation and properties of a fungal lipase showing interfacial inactivation by gas bubbles, or droplets of lipid or fatty acid. Stahmann KP, et al. **Eur J Biochem** 1997 Feb 15;244(1):220–5

A flexible lid controls access to the active site in 1,3,8-trihydroxynaphthalene reductase. Andersson A, et al. **FEBS Lett** 1997 Jan 3;400(2):173–6

NMR evidence for a novel asparagine-linked oligosaccharide on cellobiohydrolase I from Trichoderma reesei RUTC 30. De Bruyn A, et al. **FEBS Lett** 1997 Mar 17;405(1):111–3

The race-specific elicitor AVR9 of the tomato pathogen Cladosporium fulvum: a cystine knot protein. Sequence-specific 1H NMR assignments, secondary structure and global fold of the protein. Vervoort J, et al. **FEBS Lett** 1997 Mar 10;404(2-3):153–8

Purification and characterisation of a novel 34,000-Mr cell-associated proteinase from the dermatophyte Trichophyton rubrum. Lambkin I, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):131–40

Conservation of a putative inhibitory domain in the GAL4 family members. Poch O. **Gene** 1997 Jan 15;184(2):229–35

Dissection of fission yeast microtubule associating protein p93Dis1: regions implicated in regulated localization and microtubule interaction. Nakaseko Y, et al. **Genes Cells** 1996 Jul;1(7):633–44

Yeast Rad55 and Rad57 proteins form a heterodimer that functions with replication protein A to promote DNA strand exchange by Rad51 recombinase. Sung P. **Genes Dev** 1997 May 1;11(9):1111–21

Isolation and characterization of a copper containing protein from blue cell walls of Neurospora crassa. Suresh K, et al. **Indian J Exp Biol** 1996 Jul;34(7):671–7

Construction of a dimeric DNA-binding peptide model by peptide-anthraquinone conjugation. Takenaka S, et al. **Int J Pept Protein Res** 1996 Oct;48(4):397–400

Fine substrate specificities of four exo-type cellulases produced by Aspergillus niger, Trichoderma reesei, and Irpex lacteus on (1-->3), (1-->4)-beta-D-glucans and xyloglucan. Amano Y, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1123–9

Characterization of putative human homologues of the yeast chromosome transmission fidelity gene, CHL1. Amann J, et al. **J Biol Chem** 1997 Feb 7;272(6):3823–32

Identification of Rox3 as a component of mediator and RNA polymerase II holoenzyme. Gustafsson CM, et al. **J Biol Chem** 1997 Jan 3;272(1):48–50

Cer1p, a novel Hsp70-related protein required for posttranslational endoplasmic reticulum translocation in yeast. Hamilton TG, et al. **J Biol Chem** 1996 Nov 29; 271(48):30610–3

Identification and functional expression of HAH1, a novel human gene involved in copper homeostasis. Klomp LW, et al. **J Biol Chem** 1997 Apr 4;272(14):9221–6

The human homologue of the yeast Prt1 protein is an integral part of the eukaryotic initiation factor 3 complex and interacts with p170. Méthot N, et al. **J Biol Chem** 1997 Jan 10;272(2):1110–6

Intrinsic fluorescence properties and structural analysis of p13(suc1) from Schizosaccharomyces pombe. Neyroz P, et al. **J Biol Chem** 1996 Nov 1;271(44):27249–58

The yeast nucleolar protein Nop4p contains four RNA recognition motifs necessary for ribosome biogenesis. Sun C, et al. **J Biol Chem** 1997 Oct 3;272(40):25345–52

A study of protein-water exchange through the off-resonance ROESY experiment: application to the DNA-binding domain of AlcR. Birlirakis N, et al. **J Biomol NMR** 1996 Dec;8(4):487–91

Mammalian CAP interacts with CAP, CAP2, and actin.

Hubberstey A, et al. **J Cell Biochem** 1996 Jun 1; 61(3):459–66

Redox-sensitive homodimerization of Pex11p: a proposed mechanism to regulate peroxisomal division. Marshall PA, et al. **J Cell Biol** 1996 Oct;135(1):123–37

Defining the essential functional regions of the nucleoporin Nup145p. Emtage JL, et al. **J Cell Sci** 1997 Apr;110 (Pt 7):911–25

The vacuolar proton pump of Dictyostelium discoideum: molecular cloning and analysis of the 100 kDa subunit. Liu T, et al. **J Cell Sci** 1996 May;109 (Pt 5):1041–51

Activity studies and crystal structures of catalytically deficient mutants of cellobiohydrolase I from Trichoderma reesei. Ståhlberg J, et al. **J Mol Biol** 1996 Nov 29; 264(2):337–49

The X-ray structure of the DNA-binding domain from the Saccharomyces cerevisiae cell-cycle transcription factor Mbp1 at 2.1 A resolution. Taylor IA, et al. **J Mol Biol** 1997 Sep 12;272(1):1–8

Domain structure and conformation of a cellobiohydrolase from Trichoderma pseudokiningii S-38. Yan BX, et al. **J Protein Chem** 1997 Jan;16(1):59–66

Uso1 protein is a dimer with two globular heads and a long coiled-coil tail. Yamakawa H, et al. **J Struct Biol** 1996 May-Jun;116(3):356–65

Multiple translation initiation factor Sui1 related sequences in mammalian genomes. Purohit R, et al. **Mamm Genome** 1996 Jan;7(1):79–80

Yeast RNA polymerase II holoenzyme. Li Y, et al. **Methods Enzymol** 1996;273:172–5 (11 ref.)

Amino- and carboxy-terminal domains of the yeast Rab escort protein are both required for binding of Ypt small G proteins. Bauer BE, et al. **Mol Biol Cell** 1996 Oct; 7(10):1521–33

Structure-function analysis of the Saccharomyces cerevisiae G1 cyclin Cln2. Huang KN, et al. **Mol Cell Biol** 1997 Aug; 17(8):4654–66

Identification of seven hydrophobic clusters in GCN4 making redundant contributions to transcriptional activation. Jackson BM, et al. **Mol Cell Biol** 1996 Oct;16(10):5557–71

Genetic and biochemical characterization of mutations in the ATPase and helicase regions of the Upf1 protein. Weng Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5477–90

Characterization of rco-1 of Neurospora crassa, a pleiotropic gene affecting growth and development that encodes a homolog of Tup1 of Saccharomyces cerevisiae. Yamashiro CT, et al. **Mol Cell Biol** 1996 Nov;16(11):6218–28

Analysis of frequency (frq) clock gene homologs: evidence for a helix-turn-helix transcription factor. Lewis MT, et al. **Mol Gen Genet** 1997 Jan 27;253(4):401–14

Membrane topology of the yeast uracil permease. Garnier C, et al. **Mol Microbiol** 1996 Sep;21(5):1061–73

Crystal structures of a single coiled-coil peptide in two oligomeric states reveal the basis for structural polymorphism. Gonzalez L Jr, et al. **Nat Struct Biol** 1996 Dec;3(12):1002–9

Buried polar residues and structural specificity in the GCN4 leucine zipper. Gonzalez L Jr, et al. **Nat Struct Biol** 1996 Dec;3(12):1011–8

Linkers made to measure [news] Schwabe JW, et al. **Nat Struct Biol** 1997 Sep;4(9):680–3

Crystal structure of a PUT3-DNA complex reveals a novel mechanism for DNA recognition by a protein containing a Zn2Cys6 binuclear cluster. Swaminathan K, et al. **Nat Struct Biol** 1997 Sep;4(9):751–9

Structure and mobility of the PUT3 dimer. Walters KJ, et al. **Nat Struct Biol** 1997 Sep;4(9):744–50

A human exchange factor for ARF contains Sec7- and pleckstrin-homology domains. Chardin P, et al. **Nature** 1996 Dec 5;384(6608):481–4

Cloning and characterization of HUPF1, a human homolog of the Saccharomyces cerevisiae nonsense mRNA-reducing UPF1 protein. Applequist SE, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):814–21

Comparative amino acid sequence analysis of the C6 zinc cluster family of transcriptional regulators. Schjerling P, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4599–607

A polyketide synthase is required for fungal virulence and production of the polyketide T-toxin. Yang G, et al. **Plant Cell** 1996 Nov;8(11):2139–50

Coordination dynamics of biological zinc "clusters" in metallothioneins and in the DNA-binding domain of the transcription factor Gal4. Maret W, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2233–7

Isolation of a brefeldin A-inhibited guanine nucleotide-exchange protein for ADP ribosylation factor (ARF) 1 and ARF3 that contains a Sec7-like domain. Morinaga N, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12856–60

Assembly of a rod-shaped chimera of a trimeric GCN4 zipper and the HIV-1 gp41 ectodomain expressed in Escherichia coli. Weissenhorn W, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6065–9

Transcriptional repression by YY1 is mediated by interaction with a mammalian homolog of the yeast global regulator RPD3. Yang WM, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12845–50

Analysis of the catalytic mechanism of a fungal lipase using computer-aided design and structural mutants. Beer HD, et al. **Protein Eng** 1996 Jun;9(6):507–17

Effect of replacing helical glycine residues with alanines on reversible and irreversible stability and production of Aspergillus awamori glucoamylase. Chen HM, et al. **Protein Eng** 1996 Jun;9(6):499–505

The role of Glu87 and Trp89 in the lid of Humicola lanuginosa lipase. Martinelle M, et al. **Protein Eng** 1996 Jun;9(6):519–24

Automated design of the surface positions of protein helices. Dahiyat BI, et al. **Protein Sci** 1997 Jun;6(6):1333–7

Evidence for PDZ domains in bacteria, yeast, and plants. Ponting CP. **Protein Sci** 1997 Feb;6(2):464–8

Expression, purification, and crystallization of the DNA-binding domain from the Saccharomyces cerevisae cell-cycle transcription factor MBP-1. Taylor IA, et al. **Proteins** 1997 Feb;27(2):325–7

The telomerase picture fills in [news; comment] Barinaga M. **Science** 1997 Apr 25;276(5312):528–9. Comment on: Science 1997 Apr 25;276(5312):561–7.

Essential yeast protein with unexpected similarity to subunits of mammalian cleavage and polyadenylation specificity factor (CPSF) [see comments] Chanfreau G, et al. **Science** 1996 Nov 29;274(5292):1511–4. Comment in: Science 1996 Nov 29;274(5292):1481–2.

Ste5 RING-H2 domain: role in Ste4-promoted oligomerization for yeast pheromone signaling. Inouye C, et al. **Science** 1997 Oct 3;278(5335):103–6

Sequence similarity between the 73-kilodalton protein of mammalian CPSF and a subunit of yeast polyadenylation factor I [see comments] Jenny A, et al. **Science** 1996 Nov 29;274(5292):1514–7. Comment in: Science 1996 Nov 29;274(5292):1481–2.

Signaling by phosphoinositide-3,4,5-trisphosphate through proteins containing pleckstrin and Sec7 homology domains [see comments] Klarlund JK, et al. **Science** 1997 Mar 28; 275(5308):1927–30. Comment in: Science 1997 Mar 28;275(5308):1899.

The end of the message—another link between yeast and mammals [comment] Manley JL, et al. **Science** 1996 Nov 29;274(5292):1481–2. Comment on: Science 1996 Nov 29;274(5292):1511–9. Comment on: Science 1996 Nov 29;274(5292):1514–7. Comment on: Science 1996 Nov 29;274(5292):1517–20.

Identification of BIME as a subunit of the anaphase-promoting complex. Peters JM, et al. **Science** 1996 Nov 15;274(5290):1199–201

Dependence of yeast pre-mRNA 3'-end processing on CFT1: a sequence homolog of the mammalian AAUAAA binding factor [see comments] Stumpf G, et al. **Science** 1996 Nov 29;274(5292):1517–20. Comment in: Science 1996 Nov 29;274(5292):1481–2.

Identification of subunits of the anaphase-promoting complex of Saccharomyces cerevisiae. Zachariae W, et al. **Science** 1996 Nov 15;274(5290):1201–4

Crystal structure of the ternary complex of 1,3,8-trihydroxynaphthalene reductase from Magnaporthe grisea with NADPH and an active-site inhibitor. Andersson A, et al. **Structure** 1996 Oct 15;4(10):1161–70

Crystal structure of a fungal elicitor secreted by Phytophthora cryptogea, a member of a novel class of plant necrotic proteins. Boissy G, et al. **Structure** 1996 Dec 15; 4(12):1429–39

The solution structure of the first zinc finger domain of SWI5: a novel structural extension to a common fold. Dutnall RN, et al. **Structure** 1996 May 15;4(5):599–611

Crystal structure of the yeast cell-cycle control protein, p13suc1, in a strand-exchanged dimer. Khazanovich N, et al. **Structure** 1996 Mar 15;4(3):299–309

Crystal structure of the DNA-binding domain of Mbp1, a transcription factor important in cell-cycle control of DNA synthesis. Xu RM, et al. **Structure** 1997 Mar 15;5(3):349–58

Insights into specificity of cleavage and mechanism of cell entry from the crystal structure of the highly specific Aspergillus ribotoxin, restrictocin. Yang X, et al. **Structure** 1996 Jul 15;4(7):837–52

GCN5-related histone N-acetyltransferases belong to a diverse superfamily that includes the yeast SPT10 protein. Neuwald AF, et al. **Trends Biochem Sci** 1997 May; 22(5):154–5

A shared domain between a spindle assembly checkpoint protein and Ypt/Rab-specific GTPase-activators. Neuwald AF. **Trends Biochem Sci** 1997 Jul;22(7):243–4

Bioinformatics and the discovery of gene function. Casari G, et al. **Trends Genet** 1996 Jul;12(7):244–5

CLASSIFICATION

Protein structural classes in five complete genomes [letter] Frishman D, et al. **Nat Struct Biol** 1997 Aug;4(8):626–8

Phylogenetic classification of the mitochondrial carrier family of Saccharomyces cerevisiae. el Moualij B, et al. **Yeast** 1997 May;13(6):573–81

DIAGNOSTIC USE

Skin test reactivity to recombinant Aspergillus fumigatus allergen I/a in patients with cystic fibrosis. Nikolaizik WH, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):403–8

Intradermic survey with histoplasmin and paracoccidioidin [letter] Barrett TV. **Rev Soc Bras Med Trop** 1996 Nov-Dec; 29(6):619–20

GENETICS

Molecular characterization of Alternaria alternata and Cladosporium herbarum allergens. Achatz G, et al. **Adv Exp Med Biol** 1996;409:157–61

Isolation of a cDNA clone encoding a putative Alternaria alternata Alt a I subunit. De Vouge MW, et al. **Adv Exp Med Biol** 1996;409:205–12

A rapid method for the preparation of yeast lysates that facilitates the immunodetection of proteins generated by the yeast two-hybrid system. Langlands K, et al. **Anal Biochem** 1997 Jul 1;249(2):250–2

The Pichia pastoris PER6 gene encodes the yeast homologue of human PAF-1. Waterham HR, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:773–4

Monocentric and polycentric anaerobic fungi produce structurally related cellulases and xylanases. Li XL, et al. **Appl Environ Microbiol** 1997 Feb;63(2):628–35

Silencing MIG1 in Saccharomyces cerevisiae: effects of antisense MIG1 expression and MIG1 gene disruption. Olsson L, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2366–71

Frequent somatic mutations of hMSH3 with reference to microsatellite instability in hereditary nonpolyposis colorectal cancers. Akiyama Y, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):248–52

Structure and functional analysis of the multistress response gene DDR2 from Saccharomyces cerevisiae. Kobayashi N, et al. **Biochem Biophys Res Commun** 1996 Dec 13; 229(2):540–7

Molecular cloning of a novel rat salt-tolerant protein by functional complementation in yeast. Tsuji E, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):134–8

The accuracy center of a eukaryotic ribosome. Liebman SW, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11-12):1141–9 (49 ref.)

Molecular cloning and heterologous expression of the isopullulanase gene from Aspergillus niger A.T.C.C. 9642. Aoki H, et al. **Biochem J** 1997 May 1;323 (Pt 3):757–64

Expression of an exogenous isopentenyl diphosphate isomerase gene enhances isoprenoid biosynthesis in Escherichia coli. Kajiwara S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):421–6

An Aspergillus awamori acetylesterase: purification of the enzyme, and cloning and sequencing of the gene. Koseki T, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):485–90

Construction, expression and characterization of chimaeric toxins containing the ribonucleolytic toxin restrictocin: intracellular mechanism of action. Rathore D, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):815–22

Isolation of ptb1, a gene for the beta-subunit of a prenyltransferase from fission yeast. Godfrey R, et al. **Biochem Soc Trans** 1996 Aug;24(3):432S

The bimC family of kinesins: essential bipolar mitotic motors driving centrosome separation. Kashina AS, et al. **Biochim Biophys Acta** 1997 Jul 24;1357(3):257–71 (49 ref.)

Two isozymes of P450nor of Cylindrocarpon tonkinense: molecular cloning of the cDNAs and genes, expressions in the yeast, and the putative NAD(P)H-binding site. Kudo T, et al. **Biochimie** 1996;78(8-9):792–9

Nonselective URA3 colony-color assay in yeast ade1 or ade2 mutants. Weng YS, et al. **Biotechniques** 1997 Aug; 23(2):237–41

The production of recombinant glycoproteins with special reference to simple eukaryotes including Dictyostelium discoideum. Jung E, et al. **Biotechnol Appl Biochem** 1997 Feb;25 (Pt 1):3–8 (71 ref.)

Molecular cloning and characterization of a cDNA, CHEMR1, encoding a chemokine receptor with a homology to the human C-C chemokine receptor, CCR-4. Youn BS, et al. **Blood** 1997 Jun 15;89(12):4448–60

Is there a human [psi]? Jean-Jean O, et al. **C R Acad Sci III** 1996 Jun;319(6):487–92

An endoglucanase from the anaerobic fungus Orpinomyces joyonii: characterization of the gene and its product. Liu JH, et al. **Can J Microbiol** 1997 May;43(5):477–85

Analysis of mutations in the creA gene involved in carbon catabolite repression in Aspergillus nidulans. Shroff RA, et al. **Can J Microbiol** 1996 Sep;42(9):950–9

A mutation in the MSH5 gene results in alkylation tolerance. Bawa S, et al. **Cancer Res** 1997 Jul 1;57(13):2715–20

Lack of imprinting of three human cyclin-dependent kinase inhibitor genes. Cost GJ, et al. **Cancer Res** 1997 Mar 1; 57(5):926–9

Down-regulation of the KAI1 metastasis suppressor gene during the progression of human prostatic cancer infrequently involves gene mutation or allelic loss. Dong JT, et al. **Cancer Res** 1996 Oct 1;56(19):4387–90

Methylation of the hMLH1 promoter correlates with lack of expression of hMLH1 in sporadic colon tumors and mismatch repair-defective human tumor cell lines. Kane MF, et al. **Cancer Res** 1997 Mar 1;57(5):808–11

Analysis of expression of cMOAT (MRP2), MRP3, MRP4, and MRP5, homologues of the multidrug resistance-associated protein gene (MRP1), in human cancer cell lines. Kool M, et al. **Cancer Res** 1997 Aug 15; 57(16):3537–47

Isolation of murine and human homologues of the fission-yeast dis3+ gene encoding a mitotic-control protein and its overexpression in cancer cells with progressive phenotype. Lim J, et al. **Cancer Res** 1997 Mar 1;57(5):921–5

Characterization of the human homologue of RAD54: a gene located on chromosome 1p32 at a region of high loss of heterozygosity in breast tumors. Rasio D, et al. **Cancer Res** 1997 Jun 15;57(12):2378–83

Reduced expression of mismatch repair genes measured by

multiplex reverse transcription-polymerase chain reaction in human gliomas. Wei Q, et al. **Cancer Res** 1997 May 1; 57(9):1673–7

The splicing factor BBP interacts specifically with the pre-mRNA branchpoint sequence UACUAAC. Berglund JA, et al. **Cell** 1997 May 30;89(5):781–7

A novel mechanism for regulating activity of a transcription factor that controls the unfolded protein response [see comments] Cox JS, et al. **Cell** 1996 Nov 1;87(3):391–404 . Comment in: Cell 1996 Nov 1;87(3):357–9.

Alternative initiation of translation and time-specific phosphorylation yield multiple forms of the essential clock protein FREQUENCY. Garceau NY, et al. **Cell** 1997 May 2;89(3):469–76

Meiosis-specific DNA double-strand breaks are catalyzed by Spo11, a member of a widely conserved protein family. Keeney S, et al. **Cell** 1997 Feb 7;88(3):375–84

Redistribution of silencing proteins from telomeres to the nucleolus is associated with extension of life span in S. cerevisiae. Kennedy BK, et al. **Cell** 1997 May 2; 89(3):381–91

Thermally regulated translational control of FRQ mediates aspects of temperature responses in the neurospora circadian clock. Liu Y, et al. **Cell** 1997 May 2;89(3):477–86

Mis6, a fission yeast inner centromere protein, acts during G1/S and forms specialized chromatin required for equal segregation. Saitoh S, et al. **Cell** 1997 Jul 11;90(1):131–43

The transmembrane kinase Ire1p is a site-specific endonuclease that initiates mRNA splicing in the unfolded protein response. Sidrauski C, et al. **Cell** 1997 Sep 19; 90(6):1031–9

tRNA ligase is required for regulated mRNA splicing in the unfolded protein response [see comments] Sidrauski C, et al. **Cell** 1996 Nov 1;87(3):405–13. Comment in: Cell 1996 Nov 1;87(3):357–9.

Isolation of a trifluoroleucine-resistant mutant of Saccharomyces cerevisiae deficient in both high- and low-affinity L-leucine transport. Chianelli MS, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Sep;42(6):847–57

Topogenic effect of positively charged N-terminal amino acid in ER translocation of yeast alpha-factor precursor. Lee MA, et al. **Cell Struct Funct** 1996 Jun;21(3):175–81

Mitosis-specific phosphorylation of gar2, a fission yeast nucleolar protein structurally related to nucleolin. Gulli MP, et al. **Chromosoma** 1997 Jun;105(7–8):532–41

Ultrastructural changes in the Schizosaccharomyces pombe nucleolus following the disruption of the gar2+ gene, which encodes a nucleolar protein structurally related to nucleolin. Léger-Silvestre I, et al. **Chromosoma** 1997 Jun; 105(7–8):542–52

Yeast silencers create domains of nuclease-resistant chromatin in an SIR4-dependent manner. Reimer SK, et al. **Chromosoma** 1997 Aug;106(3):136–48

Immunological characterization of a recombinant 27-kilodalton antigenic protein from Paracoccidioides brasiliensis. Ortiz BL, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):239–41

DNA repair: RAD alert. Ivanov EL, et al. **Curr Biol** 1997 Aug 1;7(8):R492–5 (21 ref.)

The yeast ORF YDL202w codes for the mitochondrial ribosomal protein YmL11. Bui DM, et al. **Curr Genet** 1997 May;31(5):396–400

Three abundant germ line-specific transcripts in Volvox carteri encode photosynthetic proteins. Choi G, et al. **Curr Genet** 1996 Sep;30(4):347–55

Detection of antagonistic cellular regulatory functions by the gene-gene interference method in yeast. Daniel J. **Curr Genet** 1996 Jan;29(2):114–21

Molecular analysis of UFE1, a Saccharomyces cerevisiae gene essential for spore formation and vegetative growth. Downing TA, et al. **Curr Genet** 1996 Nov;30(5):396–403

The VPS4 gene is involved in protein transport out of a yeast pre-vacuolar endosome-like compartment. Finken-Eigen M, et al. **Curr Genet** 1997 Jun;31(6):469–80

Involvement of the RE V3 gene in the methylated base-excision repair system. Co-operation of two DNA polymerases, delta and Rev3p, in the repair of MMS-induced lesions in the DNA of Saccharomyces cerevisiae. Halas A, et al. **Curr Genet** 1997 Apr; 31(4):292–301

A comparison of the nucleotide sequence of the cerato-ulmin gene and the rDNA ITS between aggressive and non-aggressive isolates of Ophiostoma ulmi sensu lato, the causal agent of Dutch elm disease. Jeng R, et al. **Curr Genet** 1996 Jan;29(2):168–73

Cloning and characterization of MRP10, a yeast gene coding for a mitochondrial ribosomal protein. Jin C, et al. **Curr Genet** 1997 Mar;31(3):228–34

Deletion of flanking ARS elements does not affect meiotic recombination at the HIS4 locus in yeast. Kirkpatrick DT. **Curr Genet** 1997 Feb;31(2):106–11

Isolation of early meiotic recombination genes analogous to S. cerevisiae REC104 from the yeasts S. paradoxus and S. pastorianus. Nau JJ, et al. **Curr Genet** 1997 Jan;31(1):7–14

Three genes for mitochondrial proteins suppress null-mutations in both Afg3 and Rca1 when over-expressed. Rep M, et al. **Curr Genet** 1996 Aug; 30(3):206–11

Influence of gene dosage and autoregulation of the regulatory genes INO2 and INO4 on inositol/choline-repressible gene transcription in the yeast Saccharomyces cerevisiae. Schwank S, et al. **Curr Genet** 1997 Jun;31(6):462–8

Carbon regulation of the cuticle-degrading enzyme PR1 from Metarhizium anisopliae may involve a trans-acting DNA-binding protein CRR1, a functional equivalent of the Aspergillus nidulans CREA protein. Screen S, et al. **Curr Genet** 1997 Jun;31(6):511–8

Cloning and characterization of a Schizophyllum gene with A beta 6 mating-type activity. Shen GP, et al. **Curr Genet** 1996 Jan;29(2):136–42

Organization and characterization of the two yeast ribosomal protein YL19 genes. Song JM, et al. **Curr Genet** 1996 Sep; 30(4):273–8

Cloning the Yarrowia lipolytica homologue of the Saccharomyces cerevisiae SEC62 gene. Swennen D, et al. **Curr Genet** 1997 Feb;31(2):128–32

Requirement of S. pombe exonuclease II, a homologue of S. cerevisiae Sep1, for normal mitotic growth and viability. Szankasi P, et al. **Curr Genet** 1996 Sep;30(4):284–93

Factors affecting DNA-binding proteins and pcbC transcript levels in Penicillium chrysogenum. Vichitsoonthonkul T, et al. **Curr Genet** 1996 Nov;30(5):447–54

Surveillance and genome stability in budding yeast: implications for mammalian carcinogenesis. Spencer F. **Curr Top Microbiol Immunol** 1997;221:19–35 (98 ref.)

Cloning and mapping of a human novel cDNA (NHP2L1) that encodes a protein highly homologous to yeast nuclear protein NHP2. Saito H, et al. **Cytogenet Cell Genet** 1996; 72(2–3):191–3

Isolation and mapping of karyopherin alpha 3 (KPNA3), a human gene that is highly homologous to genes encoding Xenopus importin, yeast SRP1 and human RCH1. Takeda S, et al. **Cytogenet Cell Genet** 1997;76(1–2):87–93

Sorting of the initial cell types in Dictyostelium is dependent on the tipA gene. Stege JT, et al. **Dev Biol** 1997 May 1; 185(1):34–41

The Dictyostelium dual-specificity kinase splA is essential for spore differentiation. Nuckolls GH, et al. **Development** 1996 Oct;122(10):3295–305

A marker of terminal stalk cell terminal differentiation in Dictyostelium. Robinson V, et al. **Differentiation** 1997 May; 61(4):223–8

A single expression site with a conserved leader sequence regulates variation of expression of the Pneumocystis carinii family of major surface glycoprotein genes. Edman JC, et al. **DNA Cell Biol** 1996 Nov;15(11):989–99

A simple improvement in expression cloning. Takemoto Y, et al. **DNA Cell Biol** 1997 Jun;16(6):797–9

Cloning and sequencing of the gene encoding the soluble fumarate reductase from Saccharomyces cerevisiae. Enomoto K, et al. **DNA Res** 1996 Aug 31;3(4):263–7

Unique telomeric expression site of major-surface-glycoprotein genes of Pneumocystis carinii. Wada M, et al. **DNA Res** 1996 Apr 30;3(2):55–64

A cDNA encodes the Drosophila homolog of yeast 60S ribosomal protein YL43. Fox MG, et al. **DNA Seq** 1997; 7(2):123–5

Proteome analysis of Saccharomyces cerevisiae: a methodological outline. Fey SJ, et al. **Electrophoresis** 1997 Aug;18(8):1361–72

Proteome studies of Saccharomyces cerevisiae: identification and characterization of abundant proteins. Garrels JI, et al. **Electrophoresis** 1997 Aug;18(8):1347–60

Mof4-1 is an allele of the UPF1/IFS2 gene which affects both mRNA turnover and -1 ribosomal frameshifting efficiency. Cui Y, et al. **EMBO J** 1996 Oct 15; 15(20):5726–36

The human homologue of yeast CRM1 is in a dynamic subcomplex with CAN/Nup214 and a novel nuclear pore component Nup88. Fornerod M, et al. **EMBO J** 1997 Feb 17;16(4):807–16

A role for the Pkc1 MAP kinase pathway of Saccharomyces cerevisiae in bud emergence and identification of a putative upstream regulator. Gray JV, et al. **EMBO J** 1997 Aug 15;16(16):4924–37

The Aspergillus nidulans sepA gene encodes an FH1/2 protein involved in cytokinesis and the maintenance of cellular polarity. Harris SD, et al. **EMBO J** 1997 Jun; 16(12):3474–83

The Hansenula polymorpha PEX14 gene encodes a novel peroxisomal membrane protein essential for peroxisome biogenesis. Komori M, et al. **EMBO J** 1997 Jan 2; 16(1):44–53

Identification of a motor protein required for filamentous growth in Ustilago maydis. Lehmler C, et al. **EMBO J** 1997 Jun;16(12):3464–73

White collar 2, a partner in blue-light signal transduction, controlling expression of light-regulated genes in Neurospora crassa. Linden H, et al. **EMBO J** 1997 Jan 2;16(1):98–109

Recombination between DNA repeats in yeast hpr1delta cells is linked to transcription elongation. Prado F, et al. **EMBO J** 1997 May 15;16(10):2826–35

A slow sustained increase in cytosolic Ca2+ levels mediates stalk gene induction by differentiation inducing factor in Dictyostelium. Schaap P, et al. **EMBO J** 1996 Oct 1; 15(19):5177–83

Nif1, a novel mitotic inhibitor in Schizosaccharomyces pombe. Wu L, et al. **EMBO J** 1997 Mar 17;16(6):1342–50

The nuclear ABC1 gene is essential for the correct conformation and functioning of the cytochrome bc1 complex and the neighbouring complexes II and IV in the mitochondrial respiratory chain. Brasseur G, et al. **Eur J Biochem** 1997 May 15;246(1):103–11

Cloning, sequencing and developmental expression of phosphofructokinase from Dictyostelium discoideum. Estévez AM, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):442–51

The wheat poly(A)-binding protein functionally complements pab1 in yeast. Le H, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):350–7

Some DNA targets of the yeast CYP1 transcriptional activator are functionally asymmetric—evidence of two half-sites with different affinities. Näit-Kaoudjt R, et al. **Eur J Biochem** 1997 Mar 1;244(2):301–9

Kinetic characterization of individual hexose transporters of Saccharomyces cerevisiae and their relation to the triggering mechanisms of glucose repression. Reifenberger E, et al. **Eur J Biochem** 1997 Apr 15;245(2):324–33

A conditional-lethal translation termination defect in a sup45 mutant of the yeast Saccharomyces cerevisiae. Stansfield I, et al. **Eur J Biochem** 1997 May 1;245(3):557–63

The transcription of NAM7/UPF1 is enhanced in the absence of Cyp1p/Hap1p concomitant with the appearance of an ISF1-NAM7 cotranscript in Saccharomyces cerevisiae. Altamura N, et al. **FEBS Lett** 1997 Jun 2;409(1):96–100

The protein encoded by the MFT1 gene is a targeting factor for mitochondrial precursor proteins, and not a core ribosomal protein. Beilharz T, et al. **FEBS Lett** 1997 Apr 28;407(2):220–4

High expression of the yeast syntaxin-related Vam3 protein suppresses the protein transport defects of a pep12 null mutant. Götte M, et al. **FEBS Lett** 1997 Jul 7;411(1):48–52

Characterisation of a human homologue of a yeast cell division cycle gene, MCM6, located adjacent to the 5' end of the lactase gene on chromosome 2q21. Harvey CB, et al. **FEBS Lett** 1996 Dec 2;398(2–3):135–40

Yeast RAS2 mutations modulating the ras-guanine exchange factor interaction. Hermann-Le Denmat S, et al. **FEBS Lett** 1997 Feb 10;403(1):95–9

A model for Batten disease protein CLN3: functional implications from homology and mutations. Janes RW, et al. **FEBS Lett** 1996 Dec 9;399(1–2):75–7

Core promoter elements are essential as selective determinants for function of the yeast transcription factor GAL11. Sakurai H, et al. **FEBS Lett** 1996 Nov 25; 398(1):113–9

Sequence and characterization of two Arabidopsis thaliana cDNAs isolated by functional complementation of a yeast gln3 gdh1 mutant. Truong HN, et al. **FEBS Lett** 1997 Jun 30;410(2–3):213–8

A 45-bp proximal region containing AACA and GCN4 motif is sufficient to confer endosperm-specific expression of the rice storage protein glutelin gene, GluA-3. Yoshihara T, et al. **FEBS Lett** 1996 Apr 1;383(3):213–8

Abc1: a new ABC transporter from the fission yeast Schizosaccharomyces pombe. Christensen PU, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):97–102

Catabolite inactivation of the yeast maltose transporter requires ubiquitin-ligase npi1/rsp5 and ubiquitin-hydrolase npi2/doa4. Lucero P, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):273–7

Functional characterization of Schizosaccharomyces pombe genes cloned in potassium transport defective yeast strains. Lichtenberg-Fraté H, et al. **Folia Microbiol (Praha)** 1996; 41(1):105–6

Aspergillus fumigatus chsE: a gene related to CHS3 of Saccharomyces cerevisiae and important for hyphal growth and conidiophore development but not pathogenicity. Aufauvre-Brown A, et al. **Fungal Genet Biol** 1996 Feb; 21(1):141–52

Molecular cloning, nucleotide sequencing, and characterization of a 27-kDa antigenic protein from Paracoccidioides brasiliensis. McEwen JG, et al. **Fungal Genet Biol** 1996 Jun;20(2):125–31

Expressed sequences from conidial, mycelial, and sexual stages of Neurospora crassa. Nelson MA, et al. **Fungal Genet Biol** 1997 Jun;21(3):348–63

Mutation in a new gene MAF1 affects tRNA suppressor efficiency in Saccharomyces cerevisiae. Boguta M, et al. **Gene** 1997 Feb 7;185(2):291–6

The yeast SME1 gene encodes the homologue of the human E core protein. Bordonné R, et al. **Gene** 1996 Oct 17; 176(1–2):111–7

Characterization of a Phytophthora infestans gene involved in vesicle transport. Chen Y, et al. **Gene** 1996 Nov 28; 181(1–2):89–94

Isolation and characterization of a gene encoding alpha-tubulin from Candida albicans. Daly S, et al. **Gene** 1997 Mar 18;187(2):151–8

Nucleotide sequence of the gene coding for SEC14p in Candida (torulopsis) glabrata. Dundon W, et al. **Gene** 1997 Jul 1;193(1):115–8

Cloning and expression of squalene epoxidase from the pathogenic yeast Candida albicans. Favre B, et al. **Gene** 1997 Apr 11;189(1):119–26

Identification of Cdc45p, an essential factor required for DNA replication. Hardy CF. **Gene** 1997 Mar 18; 187(2):239–46

Construction and characterization of a rad51rad52 double mutant as a host for YAC libraries. Kohno K, et al. **Gene** 1997 Apr 1;188(2):175–81

Pyruvate decarboxylase and anaerobic survival in Aspergillus nidulans. Lockington RA, et al. **Gene** 1997 May 20; 191(1):61–7

The sequence of palF, an environmental pH response gene

in Aspergillus nidulans. Maccheroni W Jr, et al. **Gene** 1997 Jul 31;194(2):163–7

Cloning, and molecular characterization of the GCV1 gene encoding the glycine cleavage T-protein from Saccharomyces cerevisiae. McNeil JB, et al. **Gene** 1997 Feb 20;186(1):13–20

RIC1, a novel gene required for ribosome synthesis in Saccharomyces cerevisiae. Mizuta K, et al. **Gene** 1997 Mar 18;187(2):171–8

Isolation and molecular characterisation of the POL3 gene from Candida albicans. Nolan T, et al. **Gene** 1996 Dec 12; 183(1–2):159–65

Cloning and characterization of hsc1+, a heat shock cognate gene of the fission yeast Schizosaccharomyces pombe. Oishi K, et al. **Gene** 1996 Nov 28;181(1–2):45–9

Mammalian homologues of yeast vacuolar protein sorting (vps) genes implicated in Golgi–to–lysosome trafficking. Pevsner J, et al. **Gene** 1996 Dec 12;183(1–2):7–14

Characterization of spaA, a Streptomyces coelicolor gene homologous to a gene involved in sensing starvation in Escherichia coli. Schneider D, et al. **Gene** 1996 Oct 24; 177(1–2):243–51

The DAN1 gene of S. cerevisiae is regulated in parallel with the hypoxic genes, but by a different mechanism. Sertil O, et al. **Gene** 1997 Jun 19;192(2):199–205

Cloning and characterization of mouse Dhm2 cDNA, a functional homolog of budding yeast SEP1. Shobuike T, et al. **Gene** 1997 Jun 3;191(2):161–6

HCF–1, a hydrophobin from the tomato pathogen Cladosporium fulvum. Spanu P. **Gene** 1997 Jul 1; 193(1):89–96

Gene overexpression reveals alternative mechanisms that induce GCN4 mRNA translation. Tavernarakis N, et al. **Gene** 1996 Nov 14;179(2):271–7

The SPO1 gene product required for meiosis in yeast has a high similarity to phospholipase B enzymes. Tevzadze GG, et al. **Gene** 1996 Oct 24;177(1–2):253–5

The Saccharomyces cerevisiae SSD1 gene is involved in the tolerance to high concentration of Ca2+ with the participation of HST1/NRC1/BFR1. Tsuchiya E, et al. **Gene** 1996 Oct 17;176(1–2):35–8

NBP35 encodes an essential and evolutionary conserved protein in Saccharomyces cerevisiae with homology to a superfamily of bacterial ATPases. Vitale G, et al. **Gene** 1996 Oct 31;178(1–2):97–106

In vivo transgene activation from an HSV–based gene therapy vector by GAL4:vp16. Oligino T, et al. **Gene Ther** 1996 Oct;3(10):892–9

Schizosaccharomyces pombe gad7+ encodes a phosphoprotein with a bZIP domain, which is required for proper G1 arrest and gene expression under nitrogen starvation. Kanoh J, et al. **Genes Cells** 1996 Apr; 1(4):391–408

A yeast gene product, Fob1 protein, required for both replication fork blocking and recombinational hotspot activities. Kobayashi T, et al. **Genes Cells** 1996 May; 1(5):465–74

HsMCM6: a new member of the human MCM/P1 family encodes a protein homologous to fission yeast Mis5. Tsuruga H, et al. **Genes Cells** 1997 Jun;2(6):381–99

Microtubule–associated coiled–coil protein Ssm4 is involved in the meiotic development in fission yeast. Yamashita A, et al. **Genes Cells** 1997 Feb;2(2):155–66

Essential role of Swp73p in the function of yeast Swi/Snf complex. Cairns BR, et al. **Genes Dev** 1996 Sep 1; 10(17):2131–44

Gene activation by recruitment of the RNA polymerase II holoenzyme. Farrell S, et al. **Genes Dev** 1996 Sep 15; 10(18):2359–67

The ORC1 homolog orp1 in fission yeast plays a key role in regulating onset of S phase. Grallert B, et al. **Genes Dev** 1996 Oct 15;10(20):2644–54

mre11S—a yeast mutation that blocks double–strand–break processing and permits nonhomologous synapsis in meiosis. Nairz K, et al. **Genes Dev** 1997 Sep 1;11(17):2272–90

RAD9 and DNA polymerase epsilon form parallel sensory branches for transducing the DNA damage checkpoint signal in Saccharomyces cerevisiae. Navas TA, et al. **Genes Dev** 1996 Oct 15;10(20):2632–43

The dmf1/mid1 gene is essential for correct positioning of the division septum in fission yeast. Sohrmann M, et al. **Genes Dev** 1996 Nov 1;10(21):2707–19

Multicopy FZF1 (SUL1) suppresses the sulfite sensitivity but not the glucose derepression or aberrant cell morphology of a grr1 mutant of Saccharomyces cerevisiae. Avram D, et al. **Genetics** 1996 Oct;144(2):511–21

Alanine–scanning mutagenesis of protein phosphatase type 1 in the yeast Saccharomyces cerevisiae. Baker SH, et al. **Genetics** 1997 Mar;145(3):615–26

Molecular characterization of two high affinity sulfate transporters in Saccharomyces cerevisiae. Cherest H, et al. **Genetics** 1997 Mar;145(3):627–35

Genetic and molecular analysis of a tRNA(Leu) missense suppressor of nudC3, a mutation that blocks nuclear migration in Aspergillus nidulans. Chiu YH, et al. **Genetics** 1997 Mar;145(3):707–14

A novel Ty1–mediated fragmentation method for native and artificial yeast chromosomes reveals that the mouse steel gene is a hotspot for Ty1 integration. Dalgaard JZ, et al. **Genetics** 1996 Jun;143(2):673–83

Genesis and variability of [PSI] prion factors in Saccharomyces cerevisiae. Derkatch IL, et al. **Genetics** 1996 Dec;144(4):1375–86

Synergy between trehalose and Hsp104 for thermotolerance in Saccharomyces cerevisiae. Elliott B, et al. **Genetics** 1996 Nov;144(3):923–33

Mutations in the RNA polymerase II transcription machinery suppress the hyperrecombination mutant hpr1 delta of Saccharomyces cerevisiae. Fan HY, et al. **Genetics** 1996 Mar;142(3):749–59

Competition between adjacent meiotic recombination hotspots in the yeast Saccharomyces cerevisiae. Fan QQ, et al. **Genetics** 1997 Mar;145(3):661–70

Interaction between Ustilago maydis REC2 and RAD51 genes in DNA repair and mitotic recombination. Ferguson DO, et al. **Genetics** 1997 Feb;145(2):243–51

The efficiency of meiotic recombination between dispersed sequences in Saccharomyces cerevisiae depends upon their chromosomal location. Goldman AS, et al. **Genetics** 1996 Sep;144(1):43–55

SEC3 mutations are synthetically lethal with profilin mutations and cause defects in diploid–specific bud–site selection. Haarer BK, et al. **Genetics** 1996 Oct; 144(2):495–510

Hyperactivation of the silencing proteins, Sir2p and Sir3p, causes chromosome loss. Holmes SG, et al. **Genetics** 1997 Mar;145(3):605–14

An extragenic suppressor of the mitosis–defective bimD6 mutation of Aspergillus nidulans codes for a chromosome scaffold protein. Holt CL, et al. **Genetics** 1996 Mar; 142(3):777–87

Identification and characterization of FAR3, a gene required for pheromone–mediated G1 arrest in Saccharomyces cerevisiae. Horecka J, et al. **Genetics** 1996 Nov; 144(3):905–21

Genetic analysis of the Saccharomyces cerevisiae RHO3 gene, encoding a rho–type small GTPase, provides evidence for a role in bud formation. Imai J, et al. **Genetics** 1996 Feb;142(2):359–69

The yeast BSD2–1 mutation influences both the requirement for phosphatidylinositol transfer protein function and derepression of phospholipid biosynthetic gene expression in yeast. Kagiwada S, et al. **Genetics** 1996 Jun;143(2):685–97

Isolation of two apsA suppressor strains in Aspergillus nidulans. Krüger M, et al. **Genetics** 1996 Oct;144(2):533–40

Senescence mutants of Saccharomyces cerevisiae with a defect in telomere replication identify three additional EST genes. Lendvay TS, et al. **Genetics** 1996 Dec; 144(4):1399–412

Saccharomyces cerevisiae S288C has a mutation in FLO8, a gene required for filamentous growth. Liu H, et al. **Genetics** 1996 Nov;144(3):967–78

Isolation and analysis of the arg–13 gene of Neurospora crassa. Liu Q, et al. **Genetics** 1996 Jul;143(3):1163–74

A general method for identifying recessive diploid–specific mutations in Saccharomyces cerevisiae, its application to the isolation of mutants blocked at intermediate stages of meiotic prophase and characterization of a new gene SAE2. McKee AH, et al. **Genetics** 1997 Jul;146(3):797–816

Mutations in Saccharomyces cerevisiae that block meiotic prophase chromosome metabolism and confer cell cycle arrest at pachytene identify two new meiosis–specific genes SAE1 and SAE3. McKee AH, et al. **Genetics** 1997 Jul; 146(3):817–34

Analysis of meiotic recombination pathways in the yeast Saccharomyces cerevisiae. Mao–Draayer Y, et al. **Genetics** 1996 Sep;144(1):71–86

eth–1, the Neurospora crassa locus encoding S–adenosylmethionine synthetase: molecular cloning, sequence analysis and in vivo overexpression. Mautino MR, et al. **Genetics** 1996 Mar;142(3):789–800

A putative rhamnogalacturonase required for sexual development of Neurospora crassa. Nelson MA, et al. **Genetics** 1997 Jun;146(2):531–40

Induction of Ty recombination in yeast by cDNA and transcription: role of the RAD1 and RAD52 genes. Nevo–Caspi Y, et al. **Genetics** 1996 Nov;144(3):947–55

RAD9, RAD17, and RAD24 are required for S phase regulation in Saccharomyces cerevisiae in response to DNA damage. Paulovich AG, et al. **Genetics** 1997 Jan; 145(1):45–62

Mutations in the yeast SRB2 general transcription factor suppress hpr1–induced recombination and show defects in DNA repair. Piruat JI, et al. **Genetics** 1996 Aug; 143(4):1533–42

Isolation of COM1, a new gene required to complete meiotic double–strand break–induced recombination in Saccharomyces cerevisiae. Prinz S, et al. **Genetics** 1997 Jul; 146(3):781–95

An allelic series of blue fluorescent trp1 mutants of Arabidopsis thaliana. Rose AB, et al. **Genetics** 1997 Jan; 145(1):197–205

The yeast HRS1 gene encodes a polyglutamine–rich nuclear protein required for spontaneous and hpr1–induced deletions between direct repeats. Santos–Rosa H, et al. **Genetics** 1996 Mar;142(3):705–16

Requirement of mismatch repair genes MSH2 and MSH3 in the RAD1–RAD10 pathway of mitotic recombination in Saccharomyces cerevisiae. Saparbaev M, et al. **Genetics** 1996 Mar;142(3):727–36

The product of the het–C heterokaryon incompatibility gene of Neurospora crassa has characteristics of a glycine–rich cell wall protein. Saupe SJ, et al. **Genetics** 1996 Aug; 143(4):1589–600

Los1p, involved in yeast pre–tRNA splicing, positively regulates members of the SOL gene family. Shen WC, et al. **Genetics** 1996 Jun;143(2):699–712

Escape from het–6 incompatibility in Neurospora crassa partial diploids involves preferential deletion within the ectopic segment. Smith ML, et al. **Genetics** 1996 Oct; 144(2):523–31

Mismatch repair mutants in yeast are not defective in transcription–coupled DNA repair of UV–induced DNA damage. Sweder KS, et al. **Genetics** 1996 Jul;143(3):1127–35

Deletion of the leader peptide of the mitochondrially encoded precursor of Saccharomyces cerevisiae cytochrome c oxidase subunit II. Torello AT, et al. **Genetics** 1997 Apr; 145(4):903–10

The Swi5 transcription factor of Saccharomyces cerevisiae has a role in exit from mitosis through induction of the cdk–inhibitor Sic1 in telophase. Toyn JH, et al. **Genetics** 1997 Jan;145(1):85–96

Effects of mutations of RAD50, RAD51, RAD52, and related genes on illegitimate recombination in Saccharomyces cerevisiae. Tsukamoto Y, et al. **Genetics** 1996 Feb; 142(2):383–91

Mutagenesis of the yeast gene PRP8 reveals domains governing the specificity and fidelity of 3' splice site selection. Umen JG, et al. **Genetics** 1996 Jun;143(2):723–39

Evidence that the transcriptional regulators SIN3 and RPD3, and a novel gene (SDS3) with similar functions, are involved in transcriptional silencing in S. cerevisiae. Vannier D, et al. **Genetics** 1996 Dec;144(4):1343–53

The Saccharomyces cerevisiae RTG2 gene is a regulator of aconitase expression under catabolite repression conditions. Vélot C, et al. **Genetics** 1996 Nov;144(3):893–903

Fine–structure mapping of meiosis–specific double–strand DNA breaks at a recombination hotspot associated with an insertion of telomeric sequences upstream of the HIS4 locus in yeast. Xu F, et al. **Genetics** 1996 Jul;143(3):1115–25

Yeast mutants that produce a novel type of ascus containing asci instead of spores. Xue Z, et al. **Genetics** 1996 Nov; 144(3):979–89

The specificity determinant of the Y mating–type proteins of Schizophyllum commune is also essential for Y–Z protein binding. Yue C, et al. **Genetics** 1997 Feb; 145(2):253–60

FAR1, a negative regulatory locus required for the repression of the nitrate reductase gene in Chlamydomonas reinhardtii. Zhang D, et al. **Genetics** 1997 May;146(1):121–33

MDP1, a Saccharomyces cerevisiae gene involved in mitochondrial/cytoplasmic protein distribution, is identical to the ubiquitin–protein ligase gene RSP5. Zoładek T, et al. **Genetics** 1997 Mar;145(3):595–603

Isolation, sequencing, and mapping of the human homologue of the yeast transcription factor, SPT5. Chiang PW, et al. **Genomics** 1996 Dec 15;38(3):421–4

Assignment of the closest human homologue (DNA2L:KIAA0083) of the yeast Dna2 helicase gene to chromosome band 10q21.3–q22.1. Eki T, et al. **Genomics** 1996 Nov 1;37(3):408–10

A novel human Mcm protein: homology to the yeast replication protein Mis5 and chromosomal location. Holthoff HP, et al. **Genomics** 1996 Oct 1;37(1):131–4

Cloning and characterization of the ALG3 gene of Saccharomyces cerevisiae. Aebi M, et al. **Glycobiology** 1996 Jun;6(4):439–44

Isolation of the ALG6 locus of Saccharomyces cerevisiae required for glucosylation in the N–linked glycosylation pathway. Reiss G, et al. **Glycobiology** 1996 Jul;6(5):493–8

DNA mismatch repair gene mutations in 55 kindreds with verified or putative hereditary non–polyposis colorectal cancer. Nyström–Lahti M, et al. **Hum Mol Genet** 1996 Jun; 5(6):763–9

Disruption of the SNF1 gene abolishes trehalose utilization in the pathogenic yeast Candida glabrata. Petter R, et al. **Infect Immun** 1996 Dec;64(12):5269–73

Identification, characterization, and expression of the BiP endoplasmic reticulum resident chaperonins in Pneumocystis carinii. Stedman TT, et al. **Infect Immun** 1996 Nov;64(11):4463–71

Isolation and expression of a cDNA clone encoding an Alternaria alternata Alt a 1 subunit. De Vouge MW, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):385–95

The cloning of a cDNA for a protein designated human nup 36 [letter; comment] [see comments] Wistow G. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2363–4. Comment on: Invest Ophthalmol Vis Sci 1996 Aug;37(9):1877–83. Comment in: Invest Ophthalmol Vis Sci 1997 May;38(6):1053.

Involvement of NtcB, a LysR family transcription factor, in nitrite activation of the nitrate assimilation operon in the cyanobacterium Synechococcus sp. strain PCC 7942. Aichi M, et al. **J Bacteriol** 1997 Aug;179(15):4671–5

The Candida albicans HYR1 gene, which is activated in response to hyphal development, belongs to a gene family encoding yeast cell wall proteins. Bailey DA, et al. **J Bacteriol** 1996 Sep;178(18):5353–60

Molecular cloning and characterization of Saccharomyces cerevisiae RAD28, the yeast homolog of the human Cockayne syndrome A (CSA) gene. Bhatia PK, et al. **J Bacteriol** 1996 Oct;178(20):5977–88

A stationary–phase gene in Saccharomyces cerevisiae is a member of a novel, highly conserved gene family. Braun EL, et al. **J Bacteriol** 1996 Dec;178(23):6865–72

FLO11, a yeast gene related to the STA genes, encodes a

novel cell surface flocculin. Lo WS, et al. **J Bacteriol** 1996 Dec;178(24):7144–51

Isolation and analysis of the Xanthomonas alkyl hydroperoxide reductase gene and the peroxide sensor regulator genes ahpC and ahpF–oxyR–orfX. Loprasert S, et al. **J Bacteriol** 1997 Jun;179(12):3944–9

Isolation of the Candida albicans homologs of Saccharomyces cerevisiae KRE6 and SKN1: expression and physiological function. Mio T, et al. **J Bacteriol** 1997 Apr;179(7):2363–72

Cloning of the Candida albicans homolog of Saccharomyces cerevisiae GSC1/FKS1 and its involvement in beta-1,3-glucan synthesis. Mio T, et al. **J Bacteriol** 1997 Jul;179(13):4096–105

Characterization of transcription organization and analysis of unique expression patterns of an alkyl hydroperoxide reductase C gene (ahpC) and the peroxide regulator operon ahpF–oxyR–orfX from Xanthomonas campestris pv. phaseoli. Mongkolsuk S, et al. **J Bacteriol** 1997 Jun; 179(12):3950–5

Identification of a mannoprotein present in the inner layer of the cell wall of Saccharomyces cerevisiae. Moukadiri I, et al. **J Bacteriol** 1997 Apr;179(7):2154–62

Characterization of the pH signal transduction pathway gene palA of Aspergillus nidulans and identification of possible homologs. Negrete-Urtasun S, et al. **J Bacteriol** 1997 Mar; 179(5):1832–5

Increase in chitin as an essential response to defects in assembly of cell wall polymers in the ggp1delta mutant of Saccharomyces cerevisiae. Popolo L, et al. **J Bacteriol** 1997 Jan;179(2):463–9

AUT1, a gene essential for autophagocytosis in the yeast Saccharomyces cerevisiae. Schlumpberger M, et al. **J Bacteriol** 1997 Feb;179(4):1068–76

Cloning and characterization of CSP37, a novel gene encoding a putative membrane protein of Candida albicans. Sentandreu M, et al. **J Bacteriol** 1997 Aug;179(15):4654–63

Identification of a DNA element in the fission yeast Schizosaccharomyces pombe nmt1 (thi3) promoter involved in thiamine-regulated gene expression. Zurlinden A, et al. **J Bacteriol** 1997 Sep;179(18):5956–8

Identification and characterization of extragenic suppressors of the yeast sec12 ts mutation. Nakano A. **J Biochem (Tokyo)** 1996 Sep;120(3):642–6

Saccharomyces cerevisiae KAR2 (BiP) gene expression is induced by loss of cytosolic HSP70/Ssa1p through a heat shock element-mediated pathway. Oka M, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):578–84

Identification and functional characterization of yeast zeta-COP. Yamazaki S, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):8–14

AP1-mediated multidrug resistance in Saccharomyces cerevisiae requires FLR1 encoding a transporter of the major facilitator superfamily. Alarco AM, et al. **J Biol Chem** 1997 Aug 1;272(31):19304–13

Carbon source regulation of PIS1 gene expression in Saccharomyces cerevisiae involves the MCM1 gene and the two-component regulatory gene, SLN1. Anderson MS, et al. **J Biol Chem** 1996 Oct 25;271(43):26596–601

Saccharomyces cerevisiae basic region-leucine zipper protein regulatory networks converge at the ATR1 structural gene. Coleman ST, et al. **J Biol Chem** 1997 Sep 12; 272(37):23224–30

The COQ5 gene encodes a yeast mitochondrial protein necessary for ubiquinone biosynthesis and the assembly of the respiratory chain. Dibrov E, et al. **J Biol Chem** 1997 Apr 4;272(14):9175–81

QSR1, an essential yeast gene with a genetic relationship to a subunit of the mitochondrial cytochrome bc1 complex, codes for a 60 S ribosomal subunit protein. Dick FA, et al. **J Biol Chem** 1997 May 16;272(20):13372–9

A point mutation in the mitochondrial cytochrome b gene obviates the requirement for the nuclear encoded core protein 2 subunit in the cytochrome bc1 complex in Saccharomyces cerevisiae. di Rago JP, et al. **J Biol Chem** 1997 Feb 21;272(8):4699–704

In addition to SEC11, a newly identified gene, SPC3, is essential for signal peptidase activity in the yeast endoplasmic reticulum. Fang H, et al. **J Biol Chem** 1997 May 16;272(20):13152–8

Activated alleles of yeast SLN1 increase Mcm1-dependent reporter gene expression and diminish signaling through the Hog1 osmosensing pathway. Fassler JS, et al. **J Biol Chem** 1997 May 16;272(20):13365–71

The human homologue of the yeast CHL1 gene is a novel keratinocyte growth factor-regulated gene. Frank S, et al. **J Biol Chem** 1996 Oct 4;271(40):24337–40

SUG1, a putative transcriptional mediator and subunit of the PA700 proteasome regulatory complex, is a DNA helicase. Fraser RA, et al. **J Biol Chem** 1997 Mar 14;272(11):7122–6

COX15 codes for a mitochondrial protein essential for the assembly of yeast cytochrome oxidase. Glerum DM, et al. **J Biol Chem** 1997 Jul 25;272(30):19088–94

Translational regulation of yeast GCN4. A window on factors that control initiator-trna binding to the ribosome. Hinnebusch AG. **J Biol Chem** 1997 Aug 29;272(35):21661–4 (61 ref.)

Organization and expression of the mouse MTH1 gene for preventing transversion mutation. Igarashi H, et al. **J Biol Chem** 1997 Feb 7;272(6):3766–72

Random mutagenesis of the cAMP chemoattractant receptor, cAR1, of Dictyostelium. Mutant classes that cause discrete shifts in agonist affinity and lock the receptor in a novel activational intermediate. Kim JY, et al. **J Biol Chem** 1997 Jan 24;272(4):2060–8

Copper-specific transcriptional repression of yeast genes encoding critical components in the copper transport pathway. Labbé S, et al. **J Biol Chem** 1997 Jun 20; 272(25):15951–8

SHY1, the yeast homolog of the mammalian SURF-1 gene, encodes a mitochondrial protein required for respiration. Mashkevich G, et al. **J Biol Chem** 1997 May 30; 272(22):14356–64

The yeast SPC22/23 homolog Spc3p is essential for signal peptidase activity. Meyer HA, et al. **J Biol Chem** 1997 May 16;272(20):13159–64

Random mutagenesis of the cAMP chemoattractant receptor, cAR1, of Dictyostelium. Evidence for multiple states of activation. Milne JL, et al. **J Biol Chem** 1997 Jan 24; 272(4):2069–76

Sphingolipid synthesis as a target for antifungal drugs. Complementation of the inositol phosphorylceramide synthase defect in a mutant strain of Saccharomyces cerevisiae by the AUR1 gene. Nagiec MM, et al. **J Biol Chem** 1997 Apr 11;272(15):9809–17

Vam2/Vps41p and Vam6/Vps39p are components of a protein complex on the vacuolar membranes and involved in the vacuolar assembly in the yeast Saccharomyces cerevisiae. Nakamura N, et al. **J Biol Chem** 1997 Apr 25; 272(17):11344–9

ELO2 and ELO3, homologues of the Saccharomyces cerevisiae ELO1 gene, function in fatty acid elongation and are required for sphingolipid formation. Oh CS, et al. **J Biol Chem** 1997 Jul 11;272(28):17376–84

Characterization of two age-induced intracisternal A-particle-related transcripts in the mouse liver. Transcriptional read-through into an open reading frame with similarities to the yeast ccr4 transcription factor. Puech A, et al. **J Biol Chem** 1997 Feb 28;272(9):5995–6003

The transcriptional activators BAS1, BAS2, and ABF1 bind positive regulatory sites as the critical elements for adenine regulation of ADE5,7. Rolfes RJ, et al. **J Biol Chem** 1997 May 16;272(20):13343–54

Engineering of porcine pepsin. Alteration of S1 substrate specificity of pepsin to those of fungal aspartic proteinases by site-directed mutagenesis. Shintani T, et al. **J Biol Chem** 1997 Jul 25;272(30):18855–61

Overexpression of the G1-cyclin gene CLN2 represses the mating pathway in Saccharomyces cerevisiae at the level of the MEKK Ste11. Wassmann K, et al. **J Biol Chem** 1997 May 16;272(20):13180–8

The ZRT2 gene encodes the low affinity zinc transporter in Saccharomyces cerevisiae. Zhao H, et al. **J Biol Chem** 1996 Sep 20;271(38):23203–10

Dynamics of nuclear pore distribution in nucleoporin mutant yeast cells. Belgareh N, et al. **J Cell Biol** 1997 Feb 24; 136(4):747–59

Fission yeast dim1(+) encodes a functionally conserved polypeptide essential for mitosis. Berry LD, et al. **J Cell Biol** 1997 Jun 16;137(6):1337–54

Inactivation of two Dictyostelium discoideum genes, DdPIK1 and DdPIK2, encoding proteins related to mammalian phosphatidylinositide 3-kinases, results in defects in endocytosis, lysosome to postlysosome transport, and actin cytoskeleton organization. Buczynski G, et al. **J Cell Biol** 1997 Mar 24;136(6):1271–86

cdc12p, a protein required for cytokinesis in fission yeast, is a component of the cell division ring and interacts with profilin. Chang F, et al. **J Cell Biol** 1997 Apr 7; 137(1):169–82

The lumenal domain of Sec63p stimulates the ATPase activity of BiP and mediates BiP recruitment to the translocon in Saccharomyces cerevisiae. Corsi AK, et al. **J Cell Biol** 1997 Jun 30;137(7):1483–93

Enlarged peroxisomes are present in oleic acid-grown Yarrowia lipolytica overexpressing the PEX16 gene encoding an intraperoxisomal peripheral membrane peroxin. Eitzen GA, et al. **J Cell Biol** 1997 Jun 16; 137(6):1265–78

Mutational analysis of Mdm1p function in nuclear and mitochondrial inheritance. Fisk HA, et al. **J Cell Biol** 1997 Aug 11;138(3):485–94

A centromere DNA-binding protein from fission yeast affects chromosome segregation and has homology to human CENP-B. Halverson D, et al. **J Cell Biol** 1997 Feb 10; 136(3):487–500

The yeast gene, MDM20, is necessary for mitochondrial inheritance and organization of the actin cytoskeleton. Hermann GJ, et al. **J Cell Biol** 1997 Apr 7;137(1):141–53

MHP1, an essential gene in Saccharomyces cerevisiae required for microtubule function. Irminger-Finger I, et al. **J Cell Biol** 1996 Dec;135(5):1323–39

The cell density factor CMF regulates the chemoattractant receptor cAR1 in Dictyostelium. Van Haastert PJ, et al. **J Cell Biol** 1996 Sep;134(6):1543–9

The yeast v-SNARE Vti1p mediates two vesicle transport pathways through interactions with the t-SNAREs Sed5p and Pep12p. von Mollard GF, et al. **J Cell Biol** 1997 Jun 30;137(7):1511–24

Identification of a mid-anaphase checkpoint in budding yeast. Yang SS, et al. **J Cell Biol** 1997 Jan 27;136(2):345–54

The SAC3 gene encodes a nuclear protein required for normal progression of mitosis. Bauer A, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1575–83

Isolation and characterization of fission yeast mutants defective in the assembly and placement of the contractile actin ring. Chang F, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):131–42

Defining the essential functional regions of the nucleoporin Nup145p. Emtage JL, et al. **J Cell Sci** 1997 Apr;110 (Pt 7):911–25

Antisense RNA inactivation of gene expression of a cell-cell adhesion protein (gp64) in the cellular slime mold Polysphondylium pallidum. Funamoto S, et al. **J Cell Sci** 1996 May;109 (Pt 5):1009–16

A genetic screen reveals a role for the late G1-specific transcription factor Swi4p in diverse cellular functions including cytokinesis. Igual JC, et al. **J Cell Sci** 1997 Jul; 110 (Pt 14):1647–54

Isolation of the Schizosaccharomyces prombe RAD54 homologue, rhp54+, a gene involved in the repair of radiation damage and replication fidelity. Muris DF, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):73–81

Mutations which block the binding of calmodulin to Spc110p cause multiple mitotic defects. Stirling DA, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1297–310

Structure/function studies on the pH-dependent actin-binding protein hisactophilin in Dictyostelium mutants. Stoeckelhuber M, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1825–35

Isolation and characterization of SYS genes from yeast, multicopy suppressors of the functional loss of the transport GTPase Ypt6p. Tsukada M, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2471–81

A yeast heat shock transcription factor (Hsf1) mutant is defective in both Hsc82/Hsp82 synthesis and spindle pole body duplication. Zarzov P, et al. **J Cell Sci** 1997 Aug; 110 (Pt 16):1879–91

Multi-locus genotype switching in Pneumocystis carinii sp. f. hominis: evidence for reinfection. Keely SP, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):50S

Expression of the major surface glycoprotein of rat-derived Pneumocystis carinii by recombinant baculovirus. Mei Q, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):31S

Antigenic variation by telomeric recombination of major-surface-glycoprotein genes of Pneumocystis carinii. Wada M, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):8S

Molecular cloning and expression of a fungal immunomodulatory protein, FIP-fve, from Flammulina velutipes. Ko JL, et al. **J Formos Med Assoc** 1997 Jul; 96(7):517–24

Molecular cloning and expression of a recombinant Aspergillus fumigatus protein Asp f II with significant immunoglobulin E reactivity in allergic bronchopulmonary aspergillosis. Banerjee B, et al. **J Lab Clin Med** 1996 Mar; 127(3):253–62

Mutation screening of MSH2 and MLH1 mRNA in hereditary non-polyposis colon cancer syndrome. Froggatt NJ, et al. **J Med Genet** 1996 Sep;33(9):726–30

New evidence that Candida albicans possesses additional ATP-binding cassette MDR-like genes: implications for antifungal azole resistance. Walsh TJ, et al. **J Med Vet Mycol** 1997 Mar-Apr;35(2):133–7

The SpTRK gene encodes a potassium-specific transport protein TKHp in Schizosaccharomyces pombe. Lichtenberg-Fraté H, et al. **J Membr Biol** 1996 Jul; 152(2):169–81

Excision repair at the level of the nucleotide in the Saccharomyces cerevisiae MFA2 gene: mapping of where enhanced repair in the transcribed strand begins or ends and identification of only a partial rad16 requisite for repairing upstream control sequences. Teng Y, et al. **J Mol Biol** 1997 Mar 28;267(2):324–37

Neuroblast ablation in Drosophila P[GAL4] lines reveals origins of olfactory interneurons. Stocker RF, et al. **J Neurobiol** 1997 May;32(5):443–56

Using GCN4 as a reporter of eIF2 alpha phosphorylation and translational regulation in yeast. Dever TE. **Methods** 1997 Apr;11(4):403–17

Gene identification using the yeast two-hybrid system. Bai C, et al. **Methods Enzymol** 1996;273:331–47 (17 ref.)

Recombinant Acremonium chrysogenum strains for the industrial production of cephalosporin. Díez B, et al. **Microbiologia** 1996 Sep;12(3):359–70 (58 ref.)

A Candida albicans gene expressed in Saccharomyces cerevisiae results in a distinct pattern of mRNA processing. Iborra A, et al. **Microbiologia** 1996 Sep;12(3):443–8

Mapping of the FLO5 gene in saccharomyces cerevisiae. Sieiro C, et al. **Microbiologia** 1996 Sep;12(3):449–56

A secreted aspartic proteinase from Glomerella cingulata: purification of the enzyme and molecular cloning of the cDNA. Clark SJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1395–403

SPR28, a sixth member of the septin gene family in Saccharomyces cerevisiae that is expressed specifically in sporulating cells. De Virgilio C, et al. **Microbiology** 1996 Oct;142 (Pt 10):2897–905

Cloning and characterization of a gene (LIP1) which encodes a lipase from the pathogenic yeast Candida albicans. Fu Y, et al. **Microbiology** 1997 Feb;143 (Pt 2):331–40

Cloning of a protopectinase gene of Trichosporon penicillatum and its expression in Saccharomyces cerevisiae. Iguchi K, et al. **Microbiology** 1997 May;143 (Pt 5):1657–64

Biochemical and genetic characterization of Rbf1p, a putative transcription factor of Candida albicans. Ishii N, et al. **Microbiology** 1997 Feb;143 (Pt 2):429–35

FUNGAL PROTEINS

An oligopeptide transport gene from Candida albicans. Lubkowitz MA, et al. **Microbiology** 1997 Feb;143 (Pt 2):387–96

Phenotype in Candida albicans of a disruption of the BGL2 gene encoding a 1,3–beta–glucosyltransferase. Sarthy AV, et al. **Microbiology** 1997 Feb;143 (Pt 2):367–76

The Staphylococcus aureus allelic genetic loci for serotype 5 and 8 capsule expression contain the type–specific genes flanked by common genes. Sau S, et al. **Microbiology** 1997 Jul;143 (Pt 7):2395–405

Expression of CEL2 and CEL4, two proteins from Agaricus bisporus with similarity to fungal cellobiohydrolase I and beta–mannanase, respectively, is regulated by the carbon source. Yagüe E, et al. **Microbiology** 1997 Jan;143 (Pt 1):239–44

Isolation of the mRNA–capping enzyme and ferric–reductase–related genes from Candida albicans. Yamada–Okabe T, et al. **Microbiology** 1996 Sep;142 (Pt 9):2515–23

Aip3p/Bud6p, a yeast actin–interacting protein that is involved in morphogenesis and the selection of bipolar budding sites. Amberg DC, et al. **Mol Biol Cell** 1997 Apr; 8(4):729–53

A novel Sec18p/NSF–dependent complex required for Golgi–to–endosome transport in yeast. Burd CG, et al. **Mol Biol Cell** 1997 Jun;8(6):1089–104

Sec3p is involved in secretion and morphogenesis in Saccharomyces cerevisiae. Finger FP, et al. **Mol Biol Cell** 1997 Apr;8(4):647–62

Characterization of novel mutations at the Schizosaccharomyces pombe cdc2 regulatory phosphorylation site, tyrosine 15. Gould KL, et al. **Mol Biol Cell** 1996 Oct;7(10):1573–86

Yeast counterparts of subunits S5a and p58 (S3) of the human 26S proteasome are encoded by two multicopy suppressors of nin1–1. Kominami K, et al. **Mol Biol Cell** 1997 Jan; 8(1):171–87

A novel signal transduction pathway in Saccharomyces cerevisiae defined by Snf3–regulated expression of HXT6. Liang H, et al. **Mol Biol Cell** 1996 Dec;7(12):1953–66

GLE2, a Saccharomyces cerevisiae homologue of the Schizosaccharomyces pombe export factor RAE1, is required for nuclear pore complex structure and function. Murphy R, et al. **Mol Biol Cell** 1996 Dec;7(12):1921–37

Cloning and functional characterization of mammalian homologues of the COPII component Sec23. Paccaud JP, et al. **Mol Biol Cell** 1996 Oct;7(10):1535–46

Sec31 encodes an essential component of the COPII coat required for transport vesicle budding from the endoplasmic reticulum. Salama NR, et al. **Mol Biol Cell** 1997 Feb;8(2):205–17

CDNA cloning of p112, the largest regulatory subunit of the human 26s proteasome, and functional analysis of its yeast homologue, sen3p. Yokota K, et al. **Mol Biol Cell** 1996 Jun;7(6):853–70

Evolution of the frequency (frq) clock locus in Ascomycete fungi. Lewis MT, et al. **Mol Biol Evol** 1996 Nov; 13(9):1233–41

Identification of proteins that interact with a protein of interest: applications of the yeast two–hybrid system. Gietz RD, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):67–79

DNA–binding specificity of Mcm1: operator mutations that alter DNA–bending and transcriptional activities by a MADS box protein. Acton TB, et al. **Mol Cell Biol** 1997 Apr;17(4):1881–9

ZDS1 and ZDS2, genes whose products may regulate Cdc42p in Saccharomyces cerevisiae. Bi E, et al. **Mol Cell Biol** 1996 Oct;16(10):5264–75

The NOT, SPT3, and MOT1 genes functionally interact to regulate transcription at core promoters. Collart MA. **Mol Cell Biol** 1996 Dec;16(12):6668–76

SQT1, which encodes an essential WD domain protein of Saccharomyces cerevisiae, suppresses dominant–negative mutations of the ribosomal protein gene QSR1. Eisinger DP, et al. **Mol Cell Biol** 1997 Sep;17(9):5146–55

Heat shock factor gains access to the yeast HSC82 promoter independently of other sequence–specific factors and antagonizes nucleosomal repression of basal and induced transcription. Erkine AM, et al. **Mol Cell Biol** 1996 Dec; 16(12):7004–17

Analysis of a meiosis–specific URS1 site: sequence requirements and involvement of replication protein A. Gailus–Durner V, et al. **Mol Cell Biol** 1997 Jul; 17(7):3536–46

The osmoregulatory pathway represses mating pathway activity in Saccharomyces cerevisiae: isolation of a FUS3 mutant that is insensitive to the repression mechanism. Hall JP, et al. **Mol Cell Biol** 1996 Dec;16(12):6715–23

A basic helix–loop–helix–leucine zipper transcription complex in yeast functions in a signaling pathway from mitochondria to the nucleus. Jia Y, et al. **Mol Cell Biol** 1997 Mar;17(3):1110–7

Spliceosome activation by PRP2 ATPase prior to the first transesterification reaction of pre–mRNA splicing. Kim SH, et al. **Mol Cell Biol** 1996 Dec;16(12):6810–9

Genetic analysis of regulatory mutants affecting synthesis of extracellular proteinases in the yeast Yarrowia lipolytica: identification of a RIM101/pacC homolog. Lambert M, et al. **Mol Cell Biol** 1997 Jul;17(7):3966–76

Dual requirement for the yeast MMS19 gene in DNA repair and RNA polymerase II transcription. Lauder S, et al. **Mol Cell Biol** 1996 Dec;16(12):6783–93

A transcriptional mediator protein that is required for activation of many RNA polymerase II promoters and is conserved from yeast to humans. Lee YC, et al. **Mol Cell Biol** 1997 Aug;17(8):4622–32

Evidence that Spt3 functionally interacts with Mot1, TFIIA, and TATA–binding protein to confer promoter–specific transcriptional control in Saccharomyces cerevisiae. Madison JM, et al. **Mol Cell Biol** 1997 Jan;17(1):287–95

A fission yeast homolog of CDC20/p55CDC/Fizzy is required for recovery from DNA damage and genetically interacts with p34cdc2. Matsumoto T. **Mol Cell Biol** 1997 Feb;17(2):742–50

Regulation of gene expression during meiosis in Saccharomyces cerevisiae: SPR3 is controlled by both ABF1 and a new sporulation control element. Ozsarac N, et al. **Mol Cell Biol** 1997 Mar;17(3):1152–9

The Schizosaccharomyces pombe rad11+ gene encodes the large subunit of replication protein A. Parker AE, et al. **Mol Cell Biol** 1997 May;17(5):2381–90

Reconstitution of a MEC1–independent checkpoint in yeast by expression of a novel human fork head cDNA. Pati D, et al. **Mol Cell Biol** 1997 Jun;17(6):3037–46

Homologous segments in three subunits of the guanine nucleotide exchange factor eIF2B mediate translational regulation by phosphorylation of eIF2. Pavitt GD, et al. **Mol Cell Biol** 1997 Mar;17(3):1298–313

Characterization of the Wtm proteins, a novel family of Saccharomyces cerevisiae transcriptional modulators with roles in meiotic regulation and silencing. Pemberton LF, et al. **Mol Cell Biol** 1997 Aug;17(8):4830–41

Schizosaccharomyces pombe skp1+ encodes a protein kinase related to mammalian glycogen synthase kinase 3 and complements a cdc14 cytokinesis mutant. Plyte SE, et al. **Mol Cell Biol** 1997 Mar;17(3):1756

Saccharomyces cerevisiae BUR6 encodes a DRAP1/NC2alpha homolog that has both positive and negative roles in transcription in vivo. Prelich G. **Mol Cell Biol** 1997 Apr;17(4):2057–65

Molecular genetic analysis of Rts1p, a B' regulatory subunit of Saccharomyces cerevisiae protein phosphatase 2A. Shu Y, et al. **Mol Cell Biol** 1997 Jun;17(6):3242–53

Combinatorial regulation of the Saccharomyces cerevisiae CAR1 (arginase) promoter in response to multiple environmental signals. Smart WC, et al. **Mol Cell Biol** 1996 Oct;16(10):5876–87

The peroxin Pex17p of the yeast Yarrowia lipolytica is associated peripherally with the peroxisomal membrane and is required for the import of a subset of matrix proteins. Smith JJ, et al. **Mol Cell Biol** 1997 May;17(5):2511–20

Two human cDNAs, including a homolog of Arabidopsis FUS6 (COP11), suppress G–protein– and mitogen–activated protein kinase–mediated signal transduction in yeast and mammalian cells. Spain BH, et al. **Mol Cell Biol** 1996 Dec;16(12):6698–706

Premature 3'–end formation of CBP1 mRNA results in the downregulation of cytochrome b mRNA during the induction of respiration in Saccharomyces cerevisiae. Sparks KA, et al. **Mol Cell Biol** 1997 Aug;17(8):4199–207

Repression of gene expression by an exogenous sequence element acting in concert with a heterogeneous nuclear ribonucleoprotein–like protein, Nrd1, and the putative helicase Sen1. Steinmetz EJ, et al. **Mol Cell Biol** 1996 Dec; 16(12):6993–7003

Identification of RTF1, a novel gene important for TATA site selection by TATA box–binding protein in Saccharomyces cerevisiae. Stolinski LA, et al. **Mol Cell Biol** 1997 Aug;17(8):4490–500

A novel mutant allele of Schizosaccharomyces pombe rad26 defective in monitoring S–phase progression to prevent premature mitosis. Uchiyama M, et al. **Mol Cell Biol** 1997 Jun;17(6):3103–15

The Cyc8 (Ssn6)–Tup1 corepressor complex is composed of one Cyc8 and four Tup1 subunits. Varanasi US, et al. **Mol Cell Biol** 1996 Dec;16(12):6707–14

The RAD7, RAD16, and RAD23 genes of Saccharomyces cerevisiae: requirement for transcription–independent nucleotide excision repair in vitro and interactions between the gene products. Wang Z, et al. **Mol Cell Biol** 1997 Feb; 17(2):635–43

Identification and characterization of mutations in the UPF1 gene that affect nonsense suppression and the formation of the Upf protein complex but not mRNA turnover. Weng Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5491–506

Aspergillus asexual reproduction and sexual reproduction are differentially affected by transcriptional and translational mechanisms regulating stunted gene expression. Wu J, et al. **Mol Cell Biol** 1997 Oct;17(10):6191–201

Characterization of rco–1 of Neurospora crassa, a pleiotropic gene affecting growth and development that encodes a homolog of Tup1 of Saccharomyces cerevisiae. Yamashiro CT, et al. **Mol Cell Biol** 1996 Nov;16(11):6218–28

Mutations in the homologous ZDS1 and ZDS2 genes affect cell cycle progression. Yu Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5254–63

Genetic redundancy between SPT23 and MGA2: regulators of Ty–induced mutations and Ty1 transcription in Saccharomyces cerevisiae. Zhang S, et al. **Mol Cell Biol** 1997 Aug;17(8):4718–29

Zap1p, a metalloregulatory protein involved in zinc–responsive transcriptional regulation in Saccharomyces cerevisiae. Zhao H, et al. **Mol Cell Biol** 1997 Sep;17(9):5044–52

Isolation and characterization of a rice MADS box gene belonging to the AGL2 gene family. Kang HG, et al. **Mol Cells** 1997 Feb 28;7(1):45–51

A prolactin–inducible T cell gene product is structurally similar to the Aspergillus nidulans nuclear movement protein NUDC. Morris SM, et al. **Mol Endocrinol** 1997 Feb;11(2):229–36

Mutations in STS1 suppress the defect in 3' mRNA processing caused by the rna15–2 mutation in Saccharomyces cerevisiae. Amrani N, et al. **Mol Gen Genet** 1996 Oct 16;252(5):552–62

Isolation of a carbon source–regulated gene from Ustilago maydis. Bottin A, et al. **Mol Gen Genet** 1996 Dec 13; 253(3):342–52

A simple signal element mediates transcription termination and mRNA 3' end formation in the DEG1 gene of Saccharomyces cerevisiae. Brambilla A, et al. **Mol Gen Genet** 1997 May;254(6):681–8

scsB, a cDNA encoding the hydrogenosomal beta subunit of succinyl–CoA synthetase from the anaerobic fungus Neocallimastix frontalis. Brondijk TH, et al. **Mol Gen Genet** 1996 Dec 13;253(3):315–23

bli–4, a gene that is rapidly induced by blue light, encodes a novel mitochondrial, short–chain alcohol dehydrogenase–like protein in Neurospora crassa. Bruchez JJ, et al. **Mol Gen Genet** 1996 Sep 13;252(3):223–9

Cloning and characterization of the lipoyl–protein ligase gene LIPB from the yeast Kluyveromyces lactis: synergistic respiratory deficiency due to mutations in LIPB and mitochondrial F1–ATPase subunits. Chen XJ. **Mol Gen Genet** 1997 Jul;255(3):341–9

Homologous and heterologous expression of a ribosomal protein gene in Podospora anserina requires an intron. Dequard–Chablat M, et al. **Mol Gen Genet** 1997 Feb 20; 253(5):546–52

Integration of the multiple controls regulating the expression of the arginase gene CAR1 of Saccharomyces cerevisiae in response to differentnitrogen signals: role of Gln3p, ArgRp–Mcm1p, and Ume6p. Dubois E, et al. **Mol Gen Genet** 1997 Feb 20;253(5):568–80

SOM 1, a small new gene required for mitochondrial inner membrane peptidase function in Saccharomyces cerevisiae. Esser K, et al. **Mol Gen Genet** 1996 Sep 25;252(4):437–45

Cell cycle, DNA damage and heat shock regulate suc22+ expression in fission yeast. Harris P, et al. **Mol Gen Genet** 1996 Sep 13;252(3):284–91

Genetic interaction of DED1 encoding a putative ATP–dependent RNA helicase with SRM1 encoding a mammalian RCC1 homolog in Saccharomyces cerevisiae. Hayashi N, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):149–56

The Schizosaccharomyces pombe cdc6 gene encodes the catalytic subunit of DNA polymerase delta. Iino Y, et al. **Mol Gen Genet** 1997 Mar 18;254(1):93–7

Functional analysis of the cellobiohydrolase I promoter of the filamentous fungus Trichoderma reesei. Ilmén M, et al. **Mol Gen Genet** 1996 Dec 13;253(3):303–14

A soluble 12–kDa protein of the mitochondrial intermembrane space, Mrs11p, is essential for mitochondrial biogenesis and viability of yeast cells. Jarosch E, et al. **Mol Gen Genet** 1997 Jun;255(2):157–65

A wat1 mutant of fission yeast is defective in cell morphology. Kemp JT, et al. **Mol Gen Genet** 1997 Mar 26;254(2):127–38

The G protein beta subunit Gpb1 of Schizosaccharomyces pombe is a negative regulator of sexual development. Kim DU, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):20–32

A novel yeast gene, RHK1, is involved in the synthesis of the cell wall receptor for the HM–1 killer toxin that inhibits beta–1,3–glucan synthesis. Kimura T, et al. **Mol Gen Genet** 1997 Mar 26;254(2):139–47

Transcription of mutS and mutL–homologous genes in Saccharomyces cerevisiae during the cell cycle. Kramer W, et al. **Mol Gen Genet** 1996 Sep 13;252(3):275–83

Genetic interactions indicate a role for Mdg1p and the SH3 domain protein Bem1p in linking the G–protein mediated yeast pheromone signalling pathway to regulators of cell polarity. Leberer E, et al. **Mol Gen Genet** 1996 Oct 16; 252(5):608–21

Analysis of frequency (frq) clock gene homologs: evidence for a helix–turn–helix transcription factor. Lewis MT, et al. **Mol Gen Genet** 1997 Jan 27;253(4):401–14

UAS(MAG1), a yeast cis–acting element that regulates the expression of MAG1, is located within the protein coding region of DDI1. Liu Y, et al. **Mol Gen Genet** 1997 Aug; 255(5):533–42

Characterisation of the Schizosaccharomyces pombe rad4/cut5 mutant phenotypes: dissection of DNA replication and G2 checkpoint control function. McFarlane RJ, et al. **Mol Gen Genet** 1997 Jul;255(3):332–40

Examination of the intron in the meiosis–specific recombination gene REC114 in Saccharomyces. Malone RE, et al. **Mol Gen Genet** 1997 Jul;255(4):410–9

Characterization of a novel DNA damage–inducible gene of Saccharomyces cerevisiae, DIN7, which is a structural homolog of the RAD2 and RAD27 DNA repair genes. Mieczkowski PA, et al. **Mol Gen Genet** 1997 Feb 27; 253(6):655–65

NUC–2, a component of the phosphate–regulated signal transduction pathway in Neurospora crassa, is an ankyrin repeat protein. Poleg Y, et al. **Mol Gen Genet** 1996 Oct 28;252(6):709–16

The MBR1 gene from Saccharomyces cerevisiae is activated by and required for growth under sub-optimal conditions. Reisdorf P, et al. **Mol Gen Genet** 1997 Jul;255(4):400–9

Prt1, an unusual retrotransposon-like sequence in the fungus Phycomyces blakesleeanus. Ruiz-Pérez VL, et al. **Mol Gen Genet** 1996 Dec 13;253(3):324–33

Tolerance of low pH in Schizosaccharomyces pombe requires a functioning pub1 ubiquitin ligase. Saleki R, et al. **Mol Gen Genet** 1997 May 20;254(5):520–8

The homeodomains of the heterodimeric bE and bW proteins of Ustilago maydis are both critical for function. Schlesinger R, et al. **Mol Gen Genet** 1997 May 20; 254(5):514–9

PWP2, a member of the WD-repeat family of proteins, is an essential Saccharomyces cerevisiae gene involved in cell separation. Shafaatian R, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):101–14

A novel fission yeast gene, kms1+, is required for the formation of meiotic prophase-specific nuclear architecture. Shimanuki M, et al. **Mol Gen Genet** 1997 Apr 16;254(3):238–49

Cloning, sequencing, disruption and phenotypic analysis of uvsC, an Aspergillus nidulans homologue of yeast RAD51. van Heemst D, et al. **Mol Gen Genet** 1997 May; 254(6):654–64

UBI4, the polyubiquitin gene of Saccharomyces cerevisiae, is a heat shock gene that is also subject to catabolite derepression control. Watt R, et al. **Mol Gen Genet** 1997 Jan 27;253(4):439–47

The Aspergillus nidulans lysF gene encodes homoaconitase, an enzyme involved in the fungus-specific lysine biosynthesis pathway. Weidner G, et al. **Mol Gen Genet** 1997 Jul;255(3):237–47

Mutations in the heavy chain of cytoplasmic dynein suppress the nudF nuclear migration mutation of Aspergillus nidulans. Willins DA, et al. **Mol Gen Genet** 1997 Jun; 255(2):194–200

Molecular characterization of the Aspergillus nidulans treA gene encoding an acid trehalase required for growth on trehalose. d'Enfert C, et al. **Mol Microbiol** 1997 Apr; 24(1):203–16

Regulation by low temperatures and anaerobiosis of a yeast gene specifying a putative GPI-anchored plasma membrane protein [corrected] [published erratum appears in Mol Microbiol 1996 Jul;21(2):431] Donzeau M, et al. **Mol Microbiol** 1996 Apr;20(2):449–59

The CIT3 gene of Saccharomyces cerevisiae encodes a second mitochondrial isoform of citrate synthase. Jia YK, et al. **Mol Microbiol** 1997 Apr;24(1):53–9

ERA, a novel cis-acting element required for autoregulation and ethanol repression of PDC1 transcription in Saccharomyces cerevisiae. Liesen T, et al. **Mol Microbiol** 1996 Aug;21(3):621–32

The ATP-binding cassette multidrug transporter Snq2 of Saccharomyces cerevisiae: a novel target for the transcription factors Pdr1 and Pdr3. Mahé Y, et al. **Mol Microbiol** 1996 Apr;20(1):109–17

Characterization of SKM1, a Saccharomyces cerevisiae gene encoding a novel Ste20/PAK-like protein kinase. Martín H, et al. **Mol Microbiol** 1997 Feb;23(3):431–44

The Aspergillus fumigatus chsC and chsG genes encode class III chitin synthases with different functions. Mellado E, et al. **Mol Microbiol** 1996 May;20(3):667–79

RAG3 gene and transcriptional regulation of the pyruvate decarboxylase gene in Kluyveromyces lactis. Prior C, et al. **Mol Microbiol** 1996 May;20(4):765–72

Translocation of surface antigen genes to a unique telomeric expression site in Pneumocystis carinii. Sunkin SM, et al. **Mol Microbiol** 1996 Jan;19(2):283–95

The gene encoding the major proline transporter of Aspergillus nidulans is upregulated during conidiospore germination and in response to proline induction and amino acid starvation. Tazebay UH, et al. **Mol Microbiol** 1997 Apr;24(1):105–17

Pneumocystis carinii telomere repeats are composed of TTAGGG and the subtelomeric sequence contains a gene encoding the major surface glycoprotein. Underwood AP, et al. **Mol Microbiol** 1996 Jan;19(2):273–81

The Aspergillus niger GCN4 homologue, cpcA, is transcriptionally regulated and encodes an unusual leucine zipper. Wanke C, et al. **Mol Microbiol** 1997 Jan;23(1):23–33

Analysis of determinants of binding and transcriptional activation of the pisatin-responsive DNA binding factor of Nectria haematococca. He J, et al. **Mol Plant Microbe Interact** 1996 Apr;9(3):171–9

Positional cloning of the Drosophila melanogaster mei-9 gene, the putative homolog of the Saccharomyces cerevisiae RAD1 gene. Araj H, et al. **Mutat Res** 1996 Dec 2;364(3):209–15

Cloning of Schizosaccharomyces pombe rph16+, a gene homologous to the Saccharomyces cerevisiae RAD16 gene. Bang DD, et al. **Mutat Res** 1996 Oct 18;364(2):57–71

Genomic characterization of the mouse homolog of the Saccharomyces cerevisiae recombination and double-strand break repair gene RAD52. van den Ouweland J, et al. **Mutat Res** 1997 Mar 12;383(2):125–35

HIP1, a human homologue of S. cerevisiae Sla2p, interacts with membrane-associated huntingtin in the brain. Kalchman MA, et al. **Nat Genet** 1997 May;16(1):44–53

Yeast SAS silencing genes and human genes associated with AML and HIV-1 Tat interactions are homologous with acetyltransferases. Reifnyder C, et al. **Nat Genet** 1997 May; 16(1):109

Actin-dependent localization of an RNA encoding a cell-fate determinant in yeast. Takizawa PA, et al. **Nature** 1997 Sep 4;389(6646):90–3

Expression studies of CLN3 protein. Kaczmarski W, et al. **Neuropediatrics** 1997 Feb;28(1):33–6

Structure of the CLN3 gene and predicted structure, location and function of CLN3 protein. Mitchison HM, et al. **Neuropediatrics** 1997 Feb;28(1):12–4

Strategy for mutation detection in CLN3: characterisation of two Finnish mutations. Munroe PB, et al. **Neuropediatrics** 1997 Feb;28(1):15–7

Farnesylation of Batten disease CLN3 protein. Pullarkat RK, et al. **Neuropediatrics** 1997 Feb;28(1):42–4

Cross-species homology of the CLN3 gene. Taschner PE, et al. **Neuropediatrics** 1997 Feb;28(1):18–20

The RAD5 gene product is involved in the avoidance of non-homologous end-joining of DNA double strand breaks in the yeast Saccharomyces cerevisiae. Ahne F, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):743–9

Cloning and characterization of HUPF1, a human homolog of the Saccharomyces cerevisiae nonsense mRNA-reducing UPF1 protein. Applequist SE, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):814—21

Variations of the C2H2 zinc finger motif in the yeast genome and classification of yeast zinc finger proteins. Böhm S, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2464–9

The Ogg1 protein of Saccharomyces cerevisiae: a 7,8-dihydro-8-oxoguanine DNA glycosylase/AP lyase whose lysine 241 is a critical residue for catalytic activity. Girard PM, et al. **Nucleic Acids Res** 1997 Aug 15; 25(16):3204–11

Allelism of PSO4 and PRP19 links pre-mRNA processing with recombination and error-prone DNA repair in Saccharomyces cerevisiae. Grey M, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):4009–14

Stabilization of yeast artificial chromosome clones in a rad54-3 recombination-deficient host strain. Le Y, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1248–53

Saccharomyces cerevisiae IRE2/HAC1 is involved in IRE1-mediated KAR2 expression. Nikawa J, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4222–6

Complementation of the DNA repair-deficient swi10 mutant of fission yeast by the human ERCC1 gene. Rödel C, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2823–7

Sce3, a suppressor of the Schizosaccharomyces pombe septation mutant cdc11, encodes a putative RNA-binding protein. Schmidt S, et al. **Nucleic Acids Res** 1997 Sep 1; 25(17):3433–9

Characterisation of Schizosaccharomyces pombe rad31, a UBA-related gene required for DNA damage tolerance. Shayeghi M, et al. **Nucleic Acids Res** 1997 Mar 15; 25(6):1162–9

Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse. Storck T, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4594–6

Isolation and characterization of the Schizosaccharomyces pombe rhp9 gene: a gene required for the DNA damage checkpoint but not the replication checkpoint. Willson J, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2138–46

Recovery of YAC-end sequences through complementation of an Escherichia coli pyrF mutation. Wright DA, et al. **Nucleic Acids Res** 1997 Jul 1;25(13):2679–80

Molecular cloning and analysis of Schizosaccharomyces pombe Reb1p: sequence-specific recognition of two sites in the far upstream rDNA intergenic spacer. Zhao A, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):904–10

Two tandem and independent sub-activation domains in the amino terminus of p53 require the adaptor complex for activity. Candau R, et al. **Oncogene** 1997 Aug 14; 15(7):807–16

Modification of seed oil content and acyl composition in the brassicaceae by expression of a yeast sn-2 acyltransferase gene. Zou J, et al. **Plant Cell** 1997 Jun;9(6):909–23

The presence of a Sar1 gene family in Brassica campestris that suppresses a yeast vesicular transport mutation Sec12-1. Kim WY, et al. **Plant Mol Biol** 1997 Apr; 33(6):1025–35

Mso1p: a yeast protein that functions in secretion and interacts physically and genetically with Sec1p. Aalto MK, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7331–6

Changes of telomere length cause reciprocal changes in the lifespan of mother cells in Saccharomyces cerevisiae. Austriaco NR Jr, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9768–72

The protein product of the het-s heterokaryon incompatibility gene of the fungus Podospora anserina behaves as a prion analog. Coustou V, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9773–8

DHFR/MSH3 amplification in methotrexate-resistant cells alters the hMutSalpha/hMutSbeta ratio and reduces the efficiency of base-base mismatch repair. Drummond JT, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10144–9

Role of the casein kinase I isoform, Hrr25, and the cell cycle-regulatory transcription factor, SBF, in the transcriptional response to DNA damage in Saccharomyces cerevisiae. Ho U, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):581–6

A protein encoded by a group I intron in Aspergillus nidulans directly assists RNA splicing and is a DNA endonuclease. Ho Y, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):8994–9

A human homolog of the Schizosaccharomyces pombe rad9+ checkpoint control gene. Lieberman HB, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13890–5

Dissection of a circadian oscillation into discrete domains. Merrow MW, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3877–82

Mammalian orthologues of a yeast regulator of nonsense transcript stability. Perlick HA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10928–32

Isolation of human and mouse genes based on homology to REC2, a recombinational repair gene from the fungus Ustilago maydis. Rice MC, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7417–22

HDA1 and RPD3 are members of distinct yeast histone deacetylase complexes that regulate silencing and transcription. Rundlett SE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14503–8

Linking genome and proteome by mass spectrometry: large-scale identification of yeast proteins from two dimensional gels. Shevchenko A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14440–5

Role of Saccharomyces cerevisiae Msh2 and Msh3 repair proteins in double-strand break-induced recombination. Sugawara N, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9214–9

hCTR1: a human gene for copper uptake identified by complementation in yeast. Zhou B, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7481–6

The cluA– mutant of Dictyostelium identifies a novel class of proteins required for dispersion of mitochondria. Zhu Q, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7308–13

Expression in Pichia pastoris and purification of Aspergillus awamori glucoamylase catalytic domain. Heimo H, et al. **Protein Expr Purif** 1997 Jun;10(1):70–9

Immunoaffinity chromatographic purification of cellobiohydrolase II mutants from recombinant trichoderma reesei strains devoid of major endoglucanase genes. Koivula A, et al. **Protein Expr Purif** 1996 Dec; 8(4):399–400

Overexpression in Pichia pastoris and crystallization of an elicitor protein secreted by the phytopathogenic fungus, Phytophthora cryptogea. O'Donohue MJ, et al. **Protein Expr Purif** 1996 Sep;8(2):254–61

The [U4/U6.U5] tri-snRNP-specific 27K protein is a novel SR protein that can be phosphorylated by the snRNP-associated protein kinase. Fetzer S, et al. **RNA** 1997 Apr;3(4):344–55

YRA1, an essential Saccharomyces cerevisiae gene, encodes a novel nuclear protein with RNA annealing activity. Portman DS, et al. **RNA** 1997 May;3(5):527–37

Control of filament formation in Candida albicans by the transcriptional repressor TUP1 [see comments] Braun BR, et al. **Science** 1997 Jul 4;277(5322):105–9. Comment in: Science 1997 Jul 4;277(5322):52–3.

Characterization of a new ribotoxin gene (c-sar) from Aspergillus clavatus. Huang KC, et al. **Toxicon** 1997 Mar; 35(3):383–92

Apamin binding proteins and oligosaccharyltransferases [letter] Strong PN, et al. **Toxicon** 1996 May;34(5):507–9 (15 ref.)

Molecular intimacy between proteins specifying plant-pathogen recognition. Parker JE, et al. **Trends Biochem Sci** 1997 Aug;22(8):291–6 (49 ref.)

An uncertain silence [see comments] Sherman JM, et al. **Trends Genet** 1997 Aug;13(8):308–13 (53 ref.). Comment in: Trends Genet 1997 Aug;13(8):293–5.

Maintenance and inheritance of yeast prions. Tuite MF, et al. **Trends Genet** 1996 Nov;12(11):467–71 (41 ref.)

Sequence analysis of a 12 801 bp fragment of the left arm of yeast chromosome XV containing a putative 6-phosphofructo-2-kinase gene, a gene for a possible glycophospholipid-anchored surface protein and six other open reading frames. Aldea M, et al. **Yeast** 1996 Sep;12(10B Suppl):1053–8

A Candida albicans gene encoding a DNA ligase. Andaluz E, et al. **Yeast** 1996 Jul;12(9):893–8

Sequencing analysis of a 4.1 kb subtelomeric region from yeast chromosome IV identifies HXT15, a new member of the hexose transporter family. Bargues M, et al. **Yeast** 1996 Sep;12(10B Suppl):1005–11

Construction of a yeast strain deleted for the TRP1 promoter and coding region that enhances the efficiency of the polymerase chain reaction-disruption method. Baudin-Baillieu A, et al. **Yeast** 1997 Mar 30;13(4):353–6

Saccharomyces cerevisiae cell lysis mutations cly5 and cly7 define temperature-sensitive alleles of PKC1, the gene encoding yeast protein kinase C. Baymiller J, et al. **Yeast** 1997 Mar 30;13(4):305–12

The sequence of a 16,691 bp segment of Saccharomyces cerevisiae chromosome IV identifies the DUN1, PMT1, PMT5, SRP14 and DPR1 genes, and five new open reading frames. Boskovic J, et al. **Yeast** 1996 Oct;12(13):1377–84

Constitutive flocculation in Saccharomyces cerevisiae through overexpression of the GTS1 gene, coding for a 'Glo'-type Zn-finger-containing protein. Bossier P, et al. **Yeast** 1997 Jun 30;13(8):717–25

The AFT1 transcriptional factor is differentially required for expression of high-affinity iron uptake genes in Saccharomyces cerevisiae. Casas C, et al. **Yeast** 1997 Jun 15;13(7):621–37

Yeast PIG genes: PIG1 encodes a putative type 1 phosphatase subunit that interacts with the yeast glycogen synthase

Gsy2p. Cheng C, et al. **Yeast** 1997 Jan;13(1):1–8

Analysis of an 11.6 kb region from the right arm of chromosome VII of Saccharomyces cerevisiae between the RAD2 and the MES1 genes reveals the presence of three new genes. Clemente ML, et al. **Yeast** 1997 Mar 15; 13(3):287–90

A useful colony colour phenotype associated with the yeast selectable/counter-selectable marker MET15. Cost GJ, et al. **Yeast** 1996 Aug;12(10):939–41

HST1, a new member of the SIR2 family of genes. Derbyshire MK, et al. **Yeast** 1996 Jun 15;12(7):631–40

The KNH1 gene of Saccharomyces cerevisiae is a functional homolog of KRE9. Dijkgraaf GJ, et al. **Yeast** 1996 Jun 15;12(7):683–92

Sequence analysis of a 14.2 kb fragment of Saccharomyces cerevisiae chromosome XIV that includes the ypt53, tRNALeu and gsr m2 genes and four new open reading frames. Garcia-Cantalejo JM, et al. **Yeast** 1996 May; 12(6):599–608

Characterization of cwl1+, a gene from Schizosaccharomyces pombe whose overexpression causes cell lysis. Godoy C, et al. **Yeast** 1996 Aug;12(10):983–90

Multidrug-resistant transport proteins in yeast: complete inventory and phylogenetic characterization of yeast open reading frames with the major facilitator superfamily. Goffeau A, et al. **Yeast** 1997 Jan;13(1):43–54

Molecular genetics of ICL2, encoding a non-functional isocitrate lyase in Saccharomyces cerevisiae. Heinisch JJ, et al. **Yeast** 1996 Oct;12(13):1285–95

Identification of ACT4, a novel essential actin-related gene in the yeast Saccharomyces cerevisiae. Huang ME, et al. **Yeast** 1996 Jul;12(9):839–48

The Saccharomyces cerevisiae MFS superfamily SGE1 gene confers resistance to cationic dyes. Jacquot C, et al. **Yeast** 1997 Aug;13(10):891–902

SHM1: a multicopy suppressor of a temperature-sensitive null mutation in the HMG1-like abf2 gene. Kao LR, et al. **Yeast** 1996 Sep 30;12(12):1239–50

Meiotic inheritance of functional Gal80S gene product in Saccharomyces cerevisiae. Keller AD, et al. **Yeast** 1997 Apr;13(5):441–7

DNA sequence analysis of a 10 624 bp fragment of the left arm of chromosome XV from Saccharomyces cerevisiae reveals a RNA binding protein, a mitochondrial protein, two ribosomal proteins and two new open reading frames. Lafuente MJ, et al. **Yeast** 1996 Sep;12(10B Suppl):1041–5

Removal of an intron with unique 3' branch site creates an amino-terminal protein sequence directing the scERV1 gene product to mitochondria. Lisowsky T. **Yeast** 1996 Dec;12(15):1501–10

Identification of gene encoding a putative RNA-helicase, homologous to SKI2, in chromosome VII of Saccharomyces cerevisiae. Martegani E, et al. **Yeast** 1997 Mar 30;13(4):391–7

Characterization of the Saccharomyces cerevisiae cdc42-1ts allele and new temperature-conditional-lethal cdc42 alleles. Miller PJ, et al. **Yeast** 1997 May;13(6):561–72

Isolation and characterization of the Candida albicans PFY1 gene for profilin. Ostrander DB, et al. **Yeast** 1997 Jul; 13(9):871–80

The Candida albicans PKC1 gene encodes a protein kinase C homolog necessary for cellular integrity but not dimorphism. Paravicini G, et al. **Yeast** 1996 Jun 30; 12(8):741–56

A novel cell wall protein specific to the mycelial form of Yarrowia lipolytica. Ramon AM, et al. **Yeast** 1996 Dec; 12(15):1535–48

Mechanisms of salt tolerance conferred by overexpression of the HAL1 gene in Saccharomyces cerevisiae. Rios G, et al. **Yeast** 1997 May;13(6):515–28

CtCdc55p and CtHa13p: two putative regulatory proteins from Candida tropicalis with long acidic domains. Rodriguez PL, et al. **Yeast** 1996 Oct;12(13):1321–9

Cloning of the multicopy suppressor gene SUR7: evidence for a functional relationship between the yeast actin-binding protein Rvs167 and a putative membranous protein. Sivadon P, et al. **Yeast** 1997 Jun 30;13(8):747–61

A conditional sterol esterification defect in yeast having either a sec1 or sec5 mutation in the secretory pathway. Tomeo ME, et al. **Yeast** 1997 Apr;13(5):449–62

Characterization of CHS4 (CAL2), a gene of Saccharomyces cerevisiae involved in chitin biosynthesis and allelic to SKT5 and CSD4. Trilla JA, et al. **Yeast** 1997 Jul; 13(9):795–807

Sequence analysis of a near-subtelomeric 35.4 kb DNA segment on the right arm of chromosome VII from Saccharomyces cerevisiae carrying the MAL1 locus reveals 15 complete open reading frames, including ZUO1, BGL2 and BIO2 genes and an ABC transporter gene. Volckaert G, et al. **Yeast** 1997 Mar 15;13(3):251–9

Advancement through mitosis requires rae1 gene function in fission yeast. Whalen WA, et al. **Yeast** 1997 Sep 30; 13(12):1167–79

[Interaction between yeast transcription factor GAL11 and general transcription factors] Sakurai H, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1178–86 (70 ref.) **(Jpn)**

[Molecular cloning and characterization of cDNA of the rpc10+ gene encoding the smallest subunit of nuclear RNA polymerases of Schizosaccharomyces pombe] Shpakovskiĭ GV, et al. **Bioorg Khim** 1997 May;23(5):441–8 (Eng. Abstr.) **(Rus)**

[The role of SUP35 and SUP45 genes in controlling Saccharomycetes cell cycle] Borkhsenius AS, et al. **Dokl Akad Nauk** 1997 Apr;353(4):553–6 **(Rus)**

[Superfamily of alpha-galactosidase MEL genes from Saccharomyces cerevisiae] Naumov GI, et al. **Dokl Akad Nauk** 1997 Mar;353(3):426–9 **(Rus)**

[A theoretical analysis of the primary structure of the yeast SEC59 gene product. Topology in the membrane, identification of the repetitive sequences and internal symmetry] Shpakov AO. **Zh Evol Biokhim Fiziol** 1996 Sep-Oct;32(5):545–55 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Automated serology with recombinant allergens. A feasibility study. Crameri R, et al. **Adv Exp Med Biol** 1996;409:111–6

Allergenicity of acid protease secreted by Candida albicans. Akiyama K, et al. **Allergy** 1996 Dec;51(12):887–92

Glutamic acid decarboxylase autoantibody assay using 125I-labelled recombinant GAD65 produced in yeast. Powell M, et al. **Clin Chim Acta** 1996 Dec 30;256(2):175–88

Evidence for the presence of immunoglobulin E antibodies specific to the cell wall phosphomannoproteins of Candida albicans in patients with allergies. Kanbe T, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):645–50

Immunological characterization of a recombinant 27-kilodalton antigenic protein from Paracoccidioides brasiliensis. Ortiz BL, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):239–41

Automated specific IgE assay with recombinant allergens: evaluation of the recombinant Aspergillus fumigatus allergen I in the Pharmacia Cap System. Crameri R, et al. **Clin Exp Allergy** 1996 Dec;26(12):1411–9

IgE antibodies to protein and mannan antigens of pityrosporum ovale in atopic dermatitis patients. Lintu P, et al. **Clin Exp Allergy** 1997 Jan;27(1):87–95

Responsiveness of human polymorphonuclear cells (PMNL) to stimulation by a mannoprotein fraction (MP-F2) of Candida albicans; enhanced production of IL-6 and tumour necrosis factor-alpha (TNF-alpha) by MP-F2-stimulated PMNL from HIV-infected subjects. Torosantucci A, et al. **Clin Exp Immunol** 1997 Mar;107(3):451–7

Coccidioides immitis antigen 2: analysis of gene and protein. Zhu Y, et al. **Gene** 1996 Nov 28;181(1-2):121–5

Cellular immune responses to recombinant heat shock protein 70 from Histoplasma capsulatum. Allendoerfer R, et al. **Infect Immun** 1996 Oct;64(10):4123–8

Extracellular proteins of Cryptococcus neoformans and host antibody response. Chen LC, et al. **Infect Immun** 1997 Jul; 65(7):2599–605

Proteins in the cell wall and membrane of Cryptococcus neoformans stimulate lymphocytes from both adults and fetal cord blood to proliferate. Mody CH, et al. **Infect Immun** 1996 Nov;64(11):4811–9

Mouse RAD50 has limited epitopic homology to p53 and is expressed in the adult myocardium. Kim KK, et al. **J Biol Chem** 1996 Nov 15;271(46):29255–64

Pneumocystis carinii glycoprotein A stimulates interleukin-8 production and inflammatory cell activation in alveolar macrophages and cultured monocytes. Lipschik GY, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):16S–17S

Western blot analysis of rat Pneumocystis carinii antigens using convalescent rat sera and rabbit anti-gp120. Pascale JM, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):30S

Characterization of rat CD4 T cell clones specific for the major surface glycoprotein of Pneumocystis carinii. Theus SA, et al. **J Eukaryot Microbiol** 1997 Mar-Apr;44(2):96–100

The immune response to Trichophyton tonsurans: distinct T cell cytokine profiles to a single protein among subjects with immediate and delayed hypersensitivity. Slunt JB, et al. **J Immunol** 1996 Dec 1;157(11):5192–7

Immunosuppression in paracoccidioidomycosis: T cell hyporesponsiveness to two Paracoccidioides brasiliensis glycoproteins that elicit strong humoral immune response. Benard G, et al. **J Infect Dis** 1997 May;175(5):1263–7

A protective domain of heat-shock protein 60 from Histoplasma capsulatum. Deepe GS Jr, et al. **J Infect Dis** 1996 Oct;174(4):828–34

Molecular cloning and expression of a recombinant Aspergillus fumigatus protein Asp f II with significant immunoglobulin E reactivity in allergic bronchopulmonary aspergillosis. Banerjee B, et al. **J Lab Clin Med** 1996 Mar; 127(3):253–62

Common and form-specific cell wall antigens of Candida albicans as released by chemical and enzymatic treatments. López-Ribot JL, et al. **Mycopathologia** 1996;134(1):13–20

Glycoprotein A is the immunodominant antigen of Pneumocystis carinii in mice following immunization. Gigliotti F, et al. **Parasitol Res** 1996;82(1):90–1

ISOLATION & PURIFICATION

Identification of a fungal protein of Syncephalastrum racemosum as aspartic proteinase. Ho HC, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):97–103

Purification and characterization of a 15 kDa protein (p15) produced by Helicosporium that exhibits distinct effects on neurite outgrowth from cortical neurons and PC12 cells. Hanada T, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):209–15

An Aspergillus awamori acetylesterase: purification of the enzyme, and cloning and sequencing of the gene. Koseki T, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):485–90

Proteome analysis of Saccharomyces cerevisiae: a methodological outline. Fey SJ, et al. **Electrophoresis** 1997 Aug;18(8):1361–72

Proteome studies of Saccharomyces cerevisiae: identification and characterization of abundant proteins. Garrels JI, et al. **Electrophoresis** 1997 Aug;18(8):1347–60

Transcriptional pulse-chase analysis reveals a role for a novel snRNP-associated protein in the manufacture of spliceosomal snRNPs. Noble SM, et al. **EMBO J** 1996 Aug 15;15(16):4368–79

Identification of a yeast peroxisomal member of the family of AMP-binding proteins. Blobel F, et al. **Eur J Biochem** 1996 Sep 1;240(2):468–76

Purification and characterisation of a novel 34,000-Mr cell-associated proteinase from the dermatophyte Trichophyton rubrum. Lambkin I, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):131–40

Immunomodulation and antitumor activity of polysaccharide-protein complex from the culture filtrates of a local edible mushroom, Tricholoma lobayense. Liu F, et al. **Gen Pharmacol** 1996 Jun;27(4):621–4

Purification of a major allergen, Asp f 2 binding to IgE in allergic bronchopulmonary aspergillosis, from culture filtrate of Aspergillus fumigatus. Banerjee B, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):821–7

Mft52, an acid-bristle protein in the cytosol that delivers precursor proteins to yeast mitochondria. Cartwright P, et al. **J Biol Chem** 1997 Feb 21;272(8):5320–5

Purification and biochemical properties of Saccharomyces cerevisiae's Mge1p, the mitochondrial cochaperone of Ssc1p. Deloche O, et al. **J Biol Chem** 1996 Sep 27; 271(39):23960–6

Purification and characterization of Fet3 protein, a yeast homologue of ceruloplasmin. de Silva D, et al. **J Biol Chem** 1997 May 30;272(22):14208–13

Purification and characterization of two novel hypersensitive response-inducing specific elicitors produced by the cowpea rust fungus. D'Silva I, et al. **J Biol Chem** 1997 Feb 14;272(7):3924–7

Purification of the Saccharomyces cerevisiae cleavage/polyadenylation factor I. Separation into two components that are required for both cleavage and polyadenylation of mRNA 3' ends. Kessler MM, et al. **J Biol Chem** 1996 Oct 25;271(43):27167–75

Isolation and characterization of SUG2. A novel ATPase family component of the yeast 26 S proteasome. Russell SJ, et al. **J Biol Chem** 1996 Dec 20;271(51):32810–7

Triton X-114-aided purification of latent tyrosinase. Núñez-Delicado E, et al. **J Chromatogr B Biomed Appl** 1996 May 17;680(1-2):105–12

Impact of cell disruption and polymer recycling upon aqueous two-phase processes for protein recovery. Rito-Palomares M, et al. **J Chromatogr B Biomed Appl** 1996 May 17;680(1-2):81–9

Domain structure and conformation of a cellobiohydrolase from Trichoderma pseudokiningii S-38. Yan BX, et al. **J Protein Chem** 1997 Jan;16(1):59–66

Preparation of active Cdc7/Dbf4 kinase from yeast cells. Dixon WJ, et al. **Methods Enzymol** 1997;283:390–7

Purification of yeast RNA polymerase II holoenzymes. Koleske AJ, et al. **Methods Enzymol** 1996;273:176–84 (12 ref.)

Biochemical mechanism of transcriptional activation by GAL4-VP16. Tantin D, et al. **Methods Enzymol** 1996; 274:133–49

Protein extraction from fungi. Bridge P. **Methods Mol Biol** 1996;59:39–48

Purification and quantification of Saccharomyces cerevisiae cytochrome P450. Stansfield I, et al. **Methods Mol Biol** 1996;53:355–66 (4 ref.)

Dipodascus magnusii (Saccharomycetes) contains multiple glucose-6-phosphate dehydrogenases with different NAD+/NADP+ dependencies. Králová B, et al. **Microbiologia** 1996 Mar;12(1):85–90

Separation and partial purification of beta-glucosidase and two endoglucanases in Aspergillus niveus. Taj-Aldeen SJ, et al. **Microbiologia** 1996 Mar;12(1):91–8

beta-Glucosylated proteins in the cell wall of the black yeast Exophiala (Wangiella) dermatitidis. Montijn RC, et al. **Microbiology** 1997 May;143 (Pt 5):1673–80

Identification of proteins that interact with a protein of interest: applications of the yeast two-hybrid system. Gietz RD, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):67–79

Purification and characterization of an antifungal PR-5 protein from pumpkin leaves. Cheong NE, et al. **Mol Cells** 1997 Apr 30;7(2):214–9

Complex interaction between different proteinaceous components within the cell-wall structure of Candida albicans. Lopez-Ribot JL, et al. **Mycopathologia** 1995 Nov; 132(2):87–93

One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins. Lafontaine D, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3469–71

Purification and characterization of a CENP-B homologue protein that binds to the centromeric K-type repeat DNA of Schizosaccharomyces pombe. Lee JK, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8427–32

Interleaflet clear space is reduced in the membrane of COP I and COP II-coated buds/vesicles. Orci L, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8968–70

Characterization of a new ribotoxin gene (c-sar) from

Aspergillus clavatus. Huang KC, et al. **Toxicon** 1997 Mar; 35(3):383–92

Identification of proteins of the yeast protein map using genetically manipulated strains and peptide–mass fingerprinting. Sagliocco F, et al. **Yeast** 1996 Dec; 12(15):1519–33

Identification and characterization of cytosolic Hansenula polymorpha proteins belonging to the Hsp70 protein family. Titorenko VI, et al. **Yeast** 1996 Jul;12(9):849–57

METABOLISM

The proteasome and protein degradation in yeast. Hilt W, et al. **Adv Exp Med Biol** 1996;389:197–202 (28 ref.)

The role of lectins in recognition and adhesion of the mycoparasitic fungus Trichoderma spp. to its host. Inbar J, et al. **Adv Exp Med Biol** 1996;408:229–31 (7 ref.)

Yeast homologue of nonspecific lipid–transfer protein (sterol carrier protein 2) may be a stress protein in peroxisomes. Kamiryo T, et al. **Ann N Y Acad Sci** 1996 Dec 27; 804:687–90

A new strategy for isolating genes expressing proteins involved in the import of peroxisomal proteins. Kragler F, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:658–9

Molecular and biochemical basis of the interaction between tomato and its fungal pathogen Cladosporium fulvum. de Wit PJ, et al. **Antonie Van Leeuwenhoek** 1997 Feb; 71(1–2):137–41 (27 ref.)

Sac1p of Saccharomyces cerevisiae is not involved in ATP release to the extracellular fluid. Boyum R, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):50–3

Effect of ATP binding cassette/multidrug resistance proteins on ATP efflux of Saccharomyces cerevisiae. Boyum R, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):22–6

Structural modifications of RNA influence the 5' exoribonucleolytic hydrolysis by XRN1 and HKE1 of Saccharomyces cerevisiae. Poole TL, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):799–805

Phase–specific protein expression in the dimorphic yeast Saccharomyces cerevisiae. Viard B, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):480–6

Association of elongation factor 1 alpha and ribosomal protein L3 with the proline–rich region of yeast adenylyl cyclase–associated protein CAP. Yanagihara C, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):503–7

Identification of a cAMP–dependent protein–DNA interaction at a sequence near the yeast mitochondrial rRNA genes. Rahman MU, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1115–23

Secondary H/T and D/T isotope effects in enzymatic enolization reactions. Coupled motion and tunneling in the triosephosphate isomerase reaction. Alston WC 2nd, et al. **Biochemistry** 1996 Oct 1;35(39):12873–81

Coupled folding and site–specific binding of the GCN4–bZIP transcription factor to the AP–1 and ATF/CREB DNA sites studied by microcalorimetry. Berger C, et al. **Biochemistry** 1996 Nov 26;35(47):14984–91

Energetics of folding and DNA binding of the MAT alpha 2 homeodomain. Carra JH, et al. **Biochemistry** 1997 Jan 21;36(3):526–35

Novel modifications to the farnesyl moiety of the a–factor lipopeptide pheromone from Saccharomyces cerevisiae: a role for isoprene modifications in ligand presentation. Dawe AL, et al. **Biochemistry** 1997 Oct 7;36(40):12036–44

Cryoenzymic studies on yeast 3–phosphoglycerate kinase. Attempt to obtain the kinetics of the hinge–bending motion. Geerlof A, et al. **Biochemistry** 1997 May 6;36(18):5538–45

The carbohydrate recognition domain of surfactant protein A mediates binding to the major surface glycoprotein of Pneumocystis carinii. McCormack FX, et al. **Biochemistry** 1997 Jul 1;36(26):8092–9

Identification of the catalytic nucleophile of endoglucanase I from Fusarium oxysporum by mass spectrometry. Mackenzie LF, et al. **Biochemistry** 1997 May 13; 36(19):5893–901

DNA bending by GCN4 mutants bearing cationic residues. Strauss–Soukup JK, et al. **Biochemistry** 1997 Aug 19; 36(33):10026–32

Possible role of isoaspartyl methyltransferase towards regulation of acid trehalase activity in Saccharomyces cerevisiae. Biswas N, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):273–82

Protein complexes for remodeling chromatin. Burns LG, et al. **Biochim Biophys Acta** 1997 Feb 7;1350(2):159–68 (73 ref.)

Characterization of a non–specific lipid transfer protein associated with the peroxisomal membrane of the yeast, Saccharomyces cerevisiae. Ceolotto C, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):71–8

Modulation of trehalase activity in Saccharomyces cerevisiae by an intrinsic protein. de Mesquita JF, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):233–9

A N(alpha)–acetyltransferase selectively transfers an acetyl group to NH2–terminal methionine residues: purification and partial characterization. Lee FJ, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):244–52

Phosphorylation of Srp1p, the yeast nuclear localization signal receptor, in vitro and in vivo. Azuma Y, et al. **Biochimie** 1997 May;79(5):247–59

mRNA decapping activities and their biological roles. LaGrandeur TE, et al. **Biochimie** 1996;78(11–12):1049–55 (45 ref.)

Topological requirements for recognition and cleavage of DNA by ribosome–inactivating proteins. Ling J, et al. **Biol Chem Hoppe Seyler** 1995 Nov;376(11):637–41

Binding assay of low density lipoprotein to Asp–hemolysin from Aspergillus fumigatus. Fukuchi Y, et al. **Biol Pharm Bull** 1996 Oct;19(10):1380–1

Hisactophilin–mediated binding of actin to lipid lamellae: a neutron reflectivity study of protein membrane coupling. Naumann C, et al. **Biophys J** 1996 Aug;71(2):811–23

Correlation of the OSR/ZRC1 gene product and the intracellular glutathione levels in Saccharomyces cerevisiae. Kobayashi S, et al. **Biotechnol Appl Biochem** 1996 Feb;23 (Pt 1):3–6

The 24–kDa protein from Fusarium oxysporum f.sp. erythroxyli: occurrence in related fungi and the effect of growth medium on its production. Bailey BA, et al. **Can J Microbiol** 1997 Jan;43(1):45–55

Pex14p, a peroxisomal membrane protein binding both receptors of the two PTS–dependent import pathways. Albertini M, et al. **Cell** 1997 Apr 4;89(1):83–92

CRM1 is an export receptor for leucine–rich nuclear export signals [see comments] Fornerod M, et al. **Cell** 1997 Sep 19;90(6):1051–60. Comment in: Cell 1997 Sep 19;90(6):967–70.

Redistribution of silencing proteins from telomeres to the nucleolus is associated with extension of life span in S. cerevisiae. Kennedy BK, et al. **Cell** 1997 May 2; 89(3):381–91

Molecular mimicry in development: identification of ste11+ as a substrate and mei3+ as a pseudosubstrate inhibitor of ran1+ kinase [published erratum appears in Cell 1997 Jan 24;88(2):287] Li P, et al. **Cell** 1996 Nov 29;87(5):869–80

Binding of secretory precursor polypeptides to a translocon subcomplex is regulated by BiP. Lyman SK, et al. **Cell** 1997 Jan 10;88(1):85–96

tea1 and the microtubular cytoskeleton are important for generating global spatial order within the fission yeast cell. Mata J, et al. **Cell** 1997 Jun 13;89(6):939–49

14–3–3 proteins are essential for RAS/MAPK cascade signaling during pseudohyphal development in S. cerevisiae. Roberts RL, et al. **Cell** 1997 Jun 27; 89(7):1055–65

The yeast phosphatidylinositol kinase homolog TOR2 activates RHO1 and RHO2 via the exchange factor ROM2. Schmidt A, et al. **Cell** 1997 Feb 21;88(4):531–42

Yeast Hct1 is a regulator of Clb2 cyclin proteolysis. Schwab M, et al. **Cell** 1997 Aug 22;90(4):683–93

The transmembrane kinase Ire1p is a site–specific endonuclease that initiates mRNA splicing in the unfolded protein response. Sidrauski C, et al. **Cell** 1997 Sep 19; 90(6):1031–9

Exportin 1 (Crm1p) is an essential nuclear export factor. Stade K, et al. **Cell** 1997 Sep 19;90(6):1041–50

Loading of an Mcm protein onto DNA replication origins is regulated by Cdc6p and CDKs. Tanaka T, et al. **Cell** 1997 Aug 22;90(4):649–60

Nuclear export receptors: from importin to exportin [comment] Ullman KS, et al. **Cell** 1997 Sep 19;90(6):967–70 (21 ref.). Comment on: Cell 1997 Sep 19;90(6):1051–60. Comment on: Cell 1997 Sep 19;90(6):1061–71.

A specialized nucleosome modulates transcription factor access to a C. glabrata metal responsive promoter. Zhu Z, et al. **Cell** 1996 Nov 1;87(3):459–70

Characterization of gamma–tubulin complexes in Aspergillus nidulans and detection of putative gamma–tubulin interacting proteins. Akashi T, et al. **Cell Motil Cytoskeleton** 1997;37(2):149–58

Immunocytochemical analysis of peptide hormone processing: importance of the positively charged N–terminal domain of signal peptide in correct ER targeting in yeast cells. Cheong KH, et al. **Cell Struct Funct** 1997 Jun;22(3):365–77

Mitosis–specific phosphorylation of gar2, a fission yeast nucleolar protein structurally related to nucleolin. Gulli MP, et al. **Chromosoma** 1997 Jun;105(7–8):532–41

Calnexin, calreticulin, and Bip/Kar2p in protein folding. Hebert DN, et al. **Cold Spring Harb Symp Quant Biol** 1995; 60:405–15 (70 ref.)

The DOA pathway: studies on the functions and mechanisms of ubiquitin–dependent protein degradation in the yeast Saccharomyces cerevisiae. Hochstrasser M, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:503–13 (36 ref.)

The role of Hsp104 in stress tolerance and [PSI+] propagation in Saccharomyces cerevisiae. Lindquist S, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:451–60

Import and folding of proteins by mitochondria. Lithgow T, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:609–17 (75 ref.)

Novel protein kinase/phosphatidylinositol 3–kinase complex essential for receptor–mediated protein sorting to the vacuole in yeast. Stack JH, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:157–70

Binding of insertion/deletion DNA mismatches by the heterodimer of yeast mismatch repair proteins MSH2 and MSH3. Habraken Y, et al. **Curr Biol** 1996 Sep 1;6(9):1185–7

MSH6, a Saccharomyces cerevisiae protein that binds to mismatches as a heterodimer with MSH2. Iaccarino I, et al. **Curr Biol** 1996 Apr 1;6(4):484–6

Regulation of the mating pheromone and invasive growth responses in yeast by two MAP kinase substrates. Tedford K, et al. **Curr Biol** 1997 Apr 1;7(4):228–38

Microfilament dynamics during cell movement and chemotaxis monitored using a GFP–actin fusion protein. Westphal M, et al. **Curr Biol** 1997 Mar 1;7(3):176–83

Macromolecular complexes: how RNA and protein get together. Woodson SA. **Curr Biol** 1996 Jan 1;6(1):23–5 (9 ref.)

The VPS4 gene is involved in protein transport out of a yeast pre–vacuolar endosome–like compartment. Finken–Eigen M, et al. **Curr Genet** 1997 Jun;31(6):469–80

Bleomycin hydrolase (Blh1p), a multi–sited thiol protease in search of a distinct physiological role. Niemer I, et al. **Curr Genet** 1997 Jul;32(1):41–51

Expression of the Sclerotinia sclerotiorum polygalacturonase pg1 gene: possible involvement of CREA in glucose catabolite repression. Reymond–Cotton P, et al. **Curr Genet** 1996 Aug;30(3):240–5

Carbon regulation of the cuticle–degrading enzyme PR1 from Metarhizium anisopliae may involve a trans–acting DNA–binding protein CRR1, a functional equivalent of the Aspergillus nidulans CREA protein. Screen S, et al. **Curr Genet** 1997 Jun;31(6):511–8

Two types of alpha–factor receptor determinants for pheromone specificity in the mating–incompatible yeasts S. cerevisiae and S. kluyveri. Sen M, et al. **Curr Genet** 1997 Mar;31(3):235–40

Control of cell cycle arrest by the Mec1sc/Rad3sp DNA structure checkpoint pathway. Carr AM. **Curr Opin Genet Dev** 1997 Feb;7(1):93–8 (57 ref.)

Osmoresponsive proteins and functional assessment strategies in Saccharomyces cerevisiae. Blomberg A. **Electrophoresis** 1997 Aug;18(8):1429–40 (58 ref.)

A novel inhibitor of cap–dependent translation initiation in yeast: p20 competes with eIF4G for binding to eIF4E. Altmann M, et al. **EMBO J** 1997 Mar 3;16(5):1114–21

In vivo disassembly of free polyubiquitin chains by yeast Ubp14 modulates rates of protein degradation by the proteasome. Amerik AYu, et al. **EMBO J** 1997 Aug 15; 16(16):4826–38

Multiple interactions of components mediating preprotein translocation across the inner mitochondrial membrane. Bömer U, et al. **EMBO J** 1997 May 1;16(9):2205–16

Histone acetyltransferase activity and interaction with ADA2 are critical for GCN5 function in vivo. Candau R, et al. **EMBO J** 1997 Feb 3;16(3):555–65

Fungal fimbriae are composed of collagen. Celerin M, et al. **EMBO J** 1996 Sep 2;15(17):4445–53

Recombinational repair in yeast: functional interactions between Rad51 and Rad54 proteins. Clever B, et al. **EMBO J** 1997 May 1;16(9):2535–44

Stress and developmental regulation of the yeast C–type cyclin Ume3p (Srb11p/Ssn8p). Cooper KF, et al. **EMBO J** 1997 Aug 1;16(15):4665–75

p25rum1 promotes proteolysis of the mitotic B–cyclin p56cdc13 during G1 of the fission yeast cell cycle. Correa–Bordes J, et al. **EMBO J** 1997 Aug 1; 16(15):4657–64

Kes1p shares homology with human oxysterol binding protein and participates in a novel regulatory pathway for yeast Golgi–derived transport vesicle biogenesis. Fang M, et al. **EMBO J** 1996 Dec 2;15(23):6447–59

Cdc48p interacts with Ufd3p, a WD repeat protein required for ubiquitin–mediated proteolysis in Saccharomyces cerevisiae. Ghislain M, et al. **EMBO J** 1996 Sep 16; 15(18):4884–99

The integration of nitrogen and carbon catabolite repression in Aspergillus nidulans requires the GATA factor AreA and an additional positive–acting element, ADA. Gonzalez R, et al. **EMBO J** 1997 May 15;16(10):2937–44

A role for the Pkc1 MAP kinase pathway of Saccharomyces cerevisiae in bud emergence and identification of a putative upstream regulator. Gray JV, et al. **EMBO J** 1997 Aug 15;16(16):4924–37

Reconstitution of the protein insertion machinery of the mitochondrial inner membrane. Haucke V, et al. **EMBO J** 1997 Aug 1;16(15):4560–7

Insertion into the mitochondrial inner membrane of a polytopic protein, the nuclear–encoded Oxa1p. Herrmann JM, et al. **EMBO J** 1997 May 1;16(9):2217–26

Aspergillus sporulation and mycotoxin production both require inactivation of the FadA G alpha protein–dependent signaling pathway. Hicks JK, et al. **EMBO J** 1997 Aug 15;16(16):4916–23

Sequential action of two hsp70 complexes during protein import into mitochondria. Horst M, et al. **EMBO J** 1997 Apr 15;16(8):1842–9

Coordinated regulation of gene expression by the cell cycle transcription factor Swi4 and the protein kinase C MAP kinase pathway for yeast cell integrity. Igual JC, et al. **EMBO J** 1996 Sep 16;15(18):5001–13

Bni1p and Bnr1p: downstream targets of the Rho family small G–proteins which interact with profilin and regulate actin cytoskeleton in Saccharomyces cerevisiae. Imamura H, et al. **EMBO J** 1997 May 15;16(10):2745–55

Spc110p: assembly properties and role in the connection of nuclear microtubules to the yeast spindle pole body. Kilmartin JV, et al. **EMBO J** 1996 Sep 2;15(17):4592–602

Cell differentiation by interaction of two HMG–box proteins: Mat1–Mc activates M cell–specific genes in S.pombe by recruiting the ubiquitous transcription factor Ste11 to weak binding sites. Kjaerulff S, et al. **EMBO J** 1997 Jul 1; 16(13):4021–33

Bni1p implicated in cytoskeletal control is a putative target of Rho1p small GTP binding protein in Saccharomyces cerevisiae. Kohno H, et al. **EMBO J** 1996 Nov 15;

15(22):6060–8
The linker region of the ABC-transporter Ste6 mediates ubiquitination and fast turnover of the protein. Kölling R, et al. **EMBO J** 1997 May 1;16(9):2251–61
Binding of mitochondrial precursor proteins to the cytoplasmic domains of the import receptors Tom70 and Tom20 is determined by cytoplasmic chaperones. Komiya T, et al. **EMBO J** 1997 Jul 16;16(14):4267–75
Assembly of a bZIP–bHLH transcription activation complex: formation of the yeast Cbf1–Met4–Met28 complex is regulated through Met28 stimulation of Cbf1 DNA binding. Kuras L, et al. **EMBO J** 1997 May 1;16(9):2441–51
The mammalian profilin isoforms display complementary affinities for PIP2 and proline-rich sequences. Lambrechts A, et al. **EMBO J** 1997 Feb 3;16(3):484–94
AAA proteases with catalytic sites on opposite membrane surfaces comprise a proteolytic system for the ATP-dependent degradation of inner membrane proteins in mitochondria. Leonhard K, et al. **EMBO J** 1996 Aug 15;15(16):4218–29
Random mutagenesis reveals a region important for gating of the yeast K+ channel Ykc1. Loukin SH, et al. **EMBO J** 1997 Aug 15;16(16):4817–25
Developmental acquisition of enhancer function requires a unique coactivator activity. Majumder S, et al. **EMBO J** 1997 Apr 1;16(7):1721–31
The Skn7 response regulator controls gene expression in the oxidative stress response of the budding yeast Saccharomyces cerevisiae. Morgan BA, et al. **EMBO J** 1997 Mar 3;16(5):1035–44
Dis3, implicated in mitotic control, binds directly to Ran and enhances the GEF activity of RCC1. Noguchi E, et al. **EMBO J** 1996 Oct 15;15(20):5595–605
Remodeling the chromatin structure of a nucleosome array by transcription factor-targeted trans-displacement of histones. Owen-Hughes T, et al. **EMBO J** 1996 Sep 2; 15(17):4702–12
Sec61p mediates export of a misfolded secretory protein from the endoplasmic reticulum to the cytosol for degradation. Pilon M, et al. **EMBO J** 1997 Aug 1;16(15):4540–8
Subtle hydrophobic interactions between the seventh residue of the zinc finger loop and the first base of an HGATAR sequence determine promoter-specific recognition by the Aspergillus nidulans GATA factor AreA. Ravagnani A, et al. **EMBO J** 1997 Jul 1;16(13):3974–86
Transmembrane domain-dependent sorting of proteins to the ER and plasma membrane in yeast. Rayner JC, et al. **EMBO J** 1997 Apr 15;16(8):1832–41
The nucleotide exchange factor MGE exerts a key function in the ATP-dependent cycle of mt-Hsp70-Tim44 interaction driving mitochondrial protein import. Schneider HC, et al. **EMBO J** 1996 Nov 1;15(21):5796–803
Identification and characterization of a yeast homolog of U1 snRNP-specific protein C. Tang J, et al. **EMBO J** 1997 Jul 1;16(13):4082–91
Two functionally distinct domains generated by in vivo cleavage of Nup145p: a novel biogenesis pathway for nucleoporins. Teixeira MT, et al. **EMBO J** 1997 Aug 15; 16(16):5086–97
The Exocyst is a multiprotein complex required for exocytosis in Saccharomyces cerevisiae. TerBush DR, et al. **EMBO J** 1996 Dec 2;15(23):6483–94
Molecular architecture of the ER translocase probed by chemical crosslinking of Sss1p to complementary fragments of Sec61p. Wilkinson BM, et al. **EMBO J** 1997 Aug 1; 16(15):4549–59
A novel class of small amphipathic peptides affect aerial hyphal growth and surface hydrophobicity in Ustilago maydis. Wösten HA, et al. **EMBO J** 1996 Aug 15; 15(16):4274–81
Spm1, a stress-activated MAP kinase that regulates morphogenesis in S.pombe. Zaitsevskaya-Carter T, et al. **EMBO J** 1997 Mar 17;16(6):1318–31
Functional characterization of the fission yeast Start-specific transcription factor Res2. Zhu Y, et al. **EMBO J** 1997 Mar 3;16(5):1023–34
Periplasmic Bar1 protease of Saccharomyces cerevisiae is active before reaching its extracellular destination. Ballensiefen W, et al. **Eur J Biochem** 1997 Jul 1; 247(1):142–7
Dimerization of Cdc25p, the guanine-nucleotide exchange factor for Ras from Saccharomyces cerevisiae, and its interaction with Sdc25p. Camus C, et al. **Eur J Biochem** 1997 Jul 15;247(2):703–8
Characterization of the basal and pheromone-stimulated phosphorylation states of Ste12p. Hung W, et al. **Eur J Biochem** 1997 Apr 15;245(2):241–51
Some DNA targets of the yeast CYP1 transcriptional activator are functionally asymmetric--evidence of two half-sites with different affinities. Näät-Kaoudjt R, et al. **Eur J Biochem** 1997 Mar 1;244(2):301–9
A heterodimer of the Zn2Cys6 transcription factors Pip2p and Oaf1p controls induction of genes encoding peroxisomal proteins in Saccharomyces cerevisiae. Rottensteiner H, et al. **Eur J Biochem** 1997 Aug 1; 247(3):776–83
Specific interaction of the Streptomyces chitin-binding protein CHB1 with alpha-chitin--the role of individual tryptophan residues. Zeltins A, et al. **Eur J Biochem** 1997 Jun 1;246(2):557–64
The VPS8 gene is required for localization and trafficking of the CPY sorting receptor in Saccharomyces cerevisiae. Chen YJ, et al. **Eur J Cell Biol** 1996 Aug;70(4):289–97
The Sec20/Tip20p complex is involved in ER retrieval of dilysine-tagged proteins. Cosson P, et al. **Eur J Cell Biol** 1997 Jun;73(2):93–7
Endoplasmic reticulum retention mediated by the transmembrane domain of type II membrane proteins Sec12p and glucosidase 1. Tang BL, et al. **Eur J Cell Biol** 1997 Jun;73(2):98–104
Structural basis for the catalytic mechanism and substrate specificity of the ribonuclease alpha-sarcin. Campos-Olivas R, et al. **FEBS Lett** 1996 Dec 9;399(1–2):163–5
The Aspergillus nidulans transcription factor AlcR forms a stable complex with its half-site DNA: a NMR study. Cerdan R, et al. **FEBS Lett** 1997 May 19;408(2):235–40
High-affinity binding of the yeast cis-Golgi t-SNARE, Sed5p, to wild-type and mutant Sly1p, a modulator of transport vesicle docking. Grabowski R, et al. **FEBS Lett** 1997 Jul 14;411(2–3):169–72
Siroheme biosynthesis in Saccharomyces cerevisiae requires the products of both the MET1 and MET8 genes. Hansen J, et al. **FEBS Lett** 1997 Jan 13;401(1):20–4
Yeast RAS2 mutations modulating the ras-guanine exchange factor interaction. Hermann-Le Denmat S, et al. **FEBS Lett** 1997 Feb 10;403(1):95–9
The post-translational modifications of Ral and Rac1 are important for the action of Ral-binding protein 1, a putative effector protein of Ral. Matsubara K, et al. **FEBS Lett** 1997 Jun 30;410(2–3):169–74
The involvement of the Saccharomyces cerevisiae multidrug resistance transporters Pdr5p and Snq2p in cation resistance. Miyahara K, et al. **FEBS Lett** 1996 Dec 16; 399(3):317–20
Modulation of intracellular protein degradation by SSB1–SIS1 chaperon system in yeast S. cerevisiae. Ohba M. **FEBS Lett** 1997 Jun 9;409(2):307–11
Identification of the yeast ARG-11 gene as a mitochondrial ornithine carrier involved in arginine biosynthesis. Palmieri L, et al. **FEBS Lett** 1997 Jun 30;410(2–3):447–51
Gcn5p is involved in the acetylation of histone H3 in nucleosomes. Ruiz-García AB, et al. **FEBS Lett** 1997 Feb 17;403(2):186–90
Catabolite inactivation of the yeast maltose transporter requires ubiquitin-ligase npi1/rsp5 and ubiquitin-hydrolase npi2/doa4. Lucero P, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):273–7
Identification of Saccharomyces cerevisiae GLY1 as a threonine aldolase: a key enzyme in glycine biosynthesis. Monschau N, et al. **FEMS Microbiol Lett** 1997 May 1; 150(1):55–60
Translocation of Neurospora crassa transcription factor NUC-1 into the nucleus is induced by phosphorus limitation. Peleg Y, et al. **Fungal Genet Biol** 1996 Sep; 20(3):185–91
Functional conservation of yeast mtTFB despite extensive sequence divergence. Carrodeguas JA, et al. **Gene Expr** 1996;6(4):219–30
GAL4–VP16 stimulates two RNA polymerase II promoters primarily at the preinitiation complex assembly step. Jacob GA, et al. **Gene Expr** 1996;5(3):193–203
RNA binding analysis of yeast REF2 and its two-hybrid interaction with a new gene product, FIR1. Russnak R, et al. **Gene Expr** 1996;6(4):241–58
Xenopus cyclin A1 can associate with Cdc28 in budding yeast, causing cell-cycle arrest with an abnormal distribution of nuclear DNA. Funakoshi M, et al. **Genes Cells** 1997 May;2(5):329–43
A yeast gene product, Fob1 protein, required for both replication fork blocking and recombinational hotspot activities. Kobayashi T, et al. **Genes Cells** 1996 May; 1(5):465–74
Dissection of fission yeast microtubule associating protein p93Dis1: regions implicated in regulated localization and microtubule interaction. Nakaseko Y, et al. **Genes Cells** 1996 Jul;1(7):633–44
Two novel targets of the MAP kinase Kss1 are negative regulators of invasive growth in the yeast Saccharomyces cerevisiae. Cook JG, et al. **Genes Dev** 1996 Nov 15; 10(22):2831–48
Gene activation by recruitment of the RNA polymerase II holoenzyme. Farrell S, et al. **Genes Dev** 1996 Sep 15; 10(18):2359–67
Stn1, a new Saccharomyces cerevisiae protein, is implicated in telomere size regulation in association with Cdc13. Grandin N, et al. **Genes Dev** 1997 Feb 15;11(4):512–27
Yeast Gcn5 functions in two multisubunit complexes to acetylate nucleosomal histones: characterization of an Ada complex and the SAGA (Spt/Ada) complex. Grant PA, et al. **Genes Dev** 1997 Jul 1;11(13):1640–50
A human protein required for the second step of pre-mRNA splicing is functionally related to a yeast splicing factor. Horowitz DS, et al. **Genes Dev** 1997 Jan 1;11(1):139–51
Mlh1 is unique among mismatch repair proteins in its ability to promote crossing-over during meiosis. Hunter N, et al. **Genes Dev** 1997 Jun 15;11(12):1573–82
Fission yeast WD-repeat protein pop1 regulates genome ploidy through ubiquitin-proteasome-mediated degradation of the CDK inhibitor Rum1 and the S-phase initiator Cdc18. Kominami K, et al. **Genes Dev** 1997 Jun 15;11(12):1548–60
The role of TBP in rDNA transcription by RNA polymerase I in Saccharomyces cerevisiae: TBP is required for upstream activation factor-dependent recruitment of core factor. Steffan JS, et al. **Genes Dev** 1996 Oct 15; 10(20):2551–63
SIR2 and SIR4 interactions differ in core and extended telomeric heterochromatin in yeast. Strahl-Bolsinger S, et al. **Genes Dev** 1997 Jan 1;11(1):83–93
Yeast Rad55 and Rad57 proteins form a heterodimer that functions with replication protein A to promote DNA strand exchange by Rad51 recombinase. Sung P. **Genes Dev** 1997 May 1;11(9):1111–21
Est1 has the properties of a single-stranded telomere end-binding protein. Virta-Pearlman V, et al. **Genes Dev** 1996 Dec 15;10(24):3094–104
A novel Rap1p-interacting factor, Rif2p, cooperates with Rif1p to regulate telomere length in Saccharomyces cerevisiae. Wotton D, et al. **Genes Dev** 1997 Mar 15; 11(6):748–60
Differential regulation of FUS3 MAP kinase by tyrosine-specific phosphatases PTP2/PTP3 and dual-specificity phosphatase MSG5 in Saccharomyces cerevisiae. Zhan XL, et al. **Genes Dev** 1997 Jul 1; 11(13):1690–702
Identification of the native NIT2 major nitrogen regulatory protein in nuclear extracts of Neurospora crassa. Xiao X, et al. **Genetica** 1996 Mar;97(2):153–63
Proteolytic activation of Rim1p, a positive regulator of yeast sporulation and invasive growth. Li W, et al. **Genetics** 1997 Jan;145(1):63–73
In vivo analysis of folate coenzymes and their compartmentation in Saccharomyces cerevisiae. McNeil JB, et al. **Genetics** 1996 Feb;142(2):371–81
Suppression of pdc2 regulating pyruvate decarboxylase synthesis in yeast. Velmurugan S, et al. **Genetics** 1997 Mar; 145(3):587–94
New mutants of Saccharomyces cerevisiae affected in the transport of proteins from the endoplasmic reticulum to the Golgi complex. Wuestehube LJ, et al. **Genetics** 1996 Feb;142(2):393–406
Associations of UBE2I with RAD52, UBL1, p53, and RAD51 proteins in a yeast two-hybrid system. Shen Z, et al. **Genomics** 1996 Oct 15;37(2):183–6
Protein-O-glycosylation in yeast: protein-specific mannosyltransferases. Gentzsch M, et al. **Glycobiology** 1997 Jun;7(4):481–6
Retention of Saccharomyces cerevisiae cell wall proteins through a phosphodiester-linked beta-1,3-/beta-1,6-glucan heteropolymer. Kapteyn JC, et al. **Glycobiology** 1996 Apr;6(3):337–45
RAS2/PKA pathway activity is involved in the nitrogen regulation of L-leucine uptake in Saccharomyces cerevisiae. Sáenz DA, et al. **Int J Biochem Cell Biol** 1997 Mar;29(3):505–12
Expression of transporter associated with antigen processing 1 and 2 (TAP1/2) in malignant melanoma cell lines. Thor Straten P, et al. **Int J Cancer** 1997 Mar 4;70(5):582–6
Glucose uptake in Kluyveromyces lactis: role of the HGT1 gene in glucose transport. Billard P, et al. **J Bacteriol** 1996 Oct;178(20):5860–6
Localization and cell surface anchoring of the Saccharomyces cerevisiae flocculation protein Flo1p. Bony M, et al. **J Bacteriol** 1997 Aug;179(15):4929–36
Structure-function analyses of the Ssc1p, Mdj1p, and Mge1p Saccharomyces cerevisiae mitochondrial proteins in Escherichia coli. Deloche O, et al. **J Bacteriol** 1997 Oct; 179(19):6066–75
The Saccharomyces cerevisiae MEC1 gene, which encodes a homolog of the human ATM gene product, is required for G1 arrest following radiation treatment. Siede W, et al. **J Bacteriol** 1996 Oct;178(19):5841–3
Suppressor gene analysis reveals an essential role for sphingolipids in transport of glycosylphosphatidylinositol-anchored proteins in Saccharomyces cerevisiae. Skrzypek M, et al. **J Bacteriol** 1997 Mar;179(5):1513–20
Saccharomyces cerevisiae exhibits a yAP-1-mediated adaptive response to malondialdehyde. Turton HE, et al. **J Bacteriol** 1997 Feb;179(4):1096–101
Restrictive glycosylphosphatidylinositol anchor synthesis in cwh6/gpi3 yeast cells causes aberrant biogenesis of cell wall proteins. Vossen JH, et al. **J Bacteriol** 1997 Apr; 179(7):2202–9
Identification and functional characterization of yeast zeta-COP. Yamazaki S, et al. **J Biochem (Tokyo)** 1997 Jan; 121(1):8–14
Assembly of deletion mutants of the Rieske iron-sulfur protein into the cytochrome bc1 complex of yeast mitochondria. Ramabadran RS, et al. **J Bioenerg Biomembr** 1997 Feb;29(1):45–54
Characterization of an upstream activation sequence and two Rox1p-responsive sites controlling the induction of the yeast HEM13 gene by oxygen and heme deficiency. Amillet JM, et al. **J Biol Chem** 1996 Oct 4;271(40):24425–32
Relationship between yeast polyribosomes and Upf proteins required for nonsense mRNA decay. Atkin AL, et al. **J Biol Chem** 1997 Aug 29;272(35):22163–72
Topological analysis of the role of homology in Flp-mediated recombination. Azam N, et al. **J Biol Chem** 1997 Mar 28; 272(13):8731–8
Mechanism of tracking and cleavage of adduct-damaged DNA substrates by the mammalian 5'- to 3'-exonuclease/endonuclease RAD2 homologue 1 or flap endonuclease 1. Barnes CJ, et al. **J Biol Chem** 1996 Nov 22;271(47):29624–31

Erv25p, a component of COPII-coated vesicles, forms a complex with Emp24p that is required for efficient endoplasmic reticulum to Golgi transport. Belden WJ, et al. **J Biol Chem** 1996 Oct 25;271(43):26939–46

Functional and physical interactions between partial molecules of STE6, a yeast ATP-binding cassette protein. Berkower C, et al. **J Biol Chem** 1996 Sep 20; 271(38):22983–9

Pombe Cdc5-related protein. A putative human transcription factor implicated in mitogen-activated signaling. Bernstein HS, et al. **J Biol Chem** 1997 Feb 28;272(9):5833–7

Differential recognition of preproteins by the purified cytosolic domains of the mitochondrial import receptors Tom20, Tom22, and Tom70. Brix J, et al. **J Biol Chem** 1997 Aug 15;272(33):20730–5

Saccharomyces cerevisiae basic region-leucine zipper protein regulatory networks converge at the ATR1 structural gene. Coleman ST, et al. **J Biol Chem** 1997 Sep 12; 272(37):23224–30

Interactions of nucleotide release factor Dss4p with Sec4p in the post-Golgi secretory pathway of yeast. Collins RN, et al. **J Biol Chem** 1997 Jul 18;272(29):18281–9

Human RAD2 homolog 1 5'- to 3'-exo/endonuclease can efficiently excise a displaced DNA fragment containing a 5'-terminal abasic lesion by endonuclease activity. DeMott MS, et al. **J Biol Chem** 1996 Nov 22;271(47):30068–76

Binding of iodide to Arthromyces ramosus peroxidase investigated with X-ray crystallographic analysis, 1H and 127I NMR spectroscopy, and steady-state kinetics. Fukuyama K, et al. **J Biol Chem** 1997 Feb 28;272(9):5752–6

Binding of centrins and yeast calmodulin to synthetic peptides corresponding to binding sites in the spindle pole body components Kar1p and Spc110p. Geier BM, et al. **J Biol Chem** 1996 Nov 8;271(45):28366–74

The yeast Fre1p/Fre2p cupric reductases facilitate copper uptake and are regulated by the copper-modulated Mac1p activator. Georgatsou E, et al. **J Biol Chem** 1997 May 23; 272(21):13786–92

Yeast Rad7-Rad16 complex, specific for the nucleotide excision repair of the nontranscribed DNA strand, is an ATP-dependent DNA damage sensor. Guzder SN, et al. **J Biol Chem** 1997 Aug 29;272(35):21665–8

Assessing the requirements for nucleotide excision repair proteins of Saccharomyces cerevisiae in an in vitro system. He Z, et al. **J Biol Chem** 1996 Nov 8;271(45):28243–9

VMA11 and VMA16 encode second and third proteolipid subunits of the Saccharomyces cerevisiae vacuolar membrane H+-ATPase. Hirata R, et al. **J Biol Chem** 1997 Feb 21;272(8):4795–803

A novel RING finger protein, Vps8p, functionally interacts with the small GTPase, Vps21p, to facilitate soluble vacuolar protein localization. Horazdovsky BF, et al. **J Biol Chem** 1996 Dec 27;271(52):33607–15

Binding of human minichromosome maintenance proteins with histone H3. Ishimi Y, et al. **J Biol Chem** 1996 Sep 27;271(39):24115–22

A DNA helicase activity is associated with an MCM4, -6, and -7 protein complex. Ishimi Y. **J Biol Chem** 1997 Sep 26;272(39):24508–13

A novel protein, Psp1, essential for cell cycle progression of Schizosaccharomyces pombe is phosphorylated by Cdc2-Cdc13 upon entry into G0-like stationary phase of cell growth. Jang YJ, et al. **J Biol Chem** 1997 Aug 8; 272(32):19993–20002

Direct association between the yeast Rad51 and Rad54 recombination proteins. Jiang H, et al. **J Biol Chem** 1996 Dec 27;271(52):33181–6

Relationship between the peptide-sensitive channel and the mitochondrial outer membrane protein translocation machinery. Juin P, et al. **J Biol Chem** 1997 Feb 28; 272(9):6044–50

Anticancer drugs, ionophoric peptides, and steroids as substrates of the yeast multidrug transporter Pdr5p. Kolaczkowski M, et al. **J Biol Chem** 1996 Dec 6; 271(49):31543–8

High affinity binding of the pleckstrin homology domain of mSos1 to phosphatidylinositol (4,5)-bisphosphate. Kubiseski TJ, et al. **J Biol Chem** 1997 Jan 17; 272(3):1799–804

Physical interaction between specific E2 and Hect E3 enzymes determines functional cooperativity. Kumar S, et al. **J Biol Chem** 1997 May 23;272(21):13548–54

The effects of palmitoylation on membrane association of Semliki forest virus RNA capping enzyme. Laakkonen P, et al. **J Biol Chem** 1996 Nov 8;271(45):28567–71

Stress-inducible, murine protein mSTI1. Characterization of binding domains for heat shock proteins and in vitro phosphorylation by different kinases. Lässle M, et al. **J Biol Chem** 1997 Jan 17;272(3):1876–84

Activity and autophosphorylation of LAMMER protein kinases. Lee K, et al. **J Biol Chem** 1996 Nov 1; 271(44):27299–303

In vitro recognition of specific DNA targets by AlcR, a zinc binuclear cluster activator different from the other proteins of this class. Lenouvel F, et al. **J Biol Chem** 1997 Jun 13; 272(24):15521–6

A role for the Saccharomyces cerevisiae ATX1 gene in copper trafficking and iron transport. Lin SJ, et al. **J Biol Chem** 1997 Apr 4;272(14):9215–20

Dimerization of the N-terminal amphipathic alpha-helix domain of the fungal immunomodulatory protein from Ganoderma tsugae (Fip-gts) defined by a yeast two-hybrid system and site-directed mutagenesis. Lin WH, et al. **J Biol Chem** 1997 Aug 8;272(32):20044–8

Yarrowia lipolytica TSR1 gene product. A novel endoplasmic reticulum membrane component involved in the signal recognition particle-dependent translocation pathway. Mamoun CB, et al. **J Biol Chem** 1997 Sep 26; 272(39):24594–8

The yeast Rab escort protein binds intracellular membranes in vivo and in vitro. Miaczynska M, et al. **J Biol Chem** 1997 Jul 4;272(27):16972–7

Structurally related Spc1p and Spc2p of yeast signal peptidase complex are functionally distinct. Mullins C, et al. **J Biol Chem** 1996 Nov 15;271(46):29094–9

The yeast HAL2 nucleotidase is an in vivo target of salt toxicity. Murguía JR, et al. **J Biol Chem** 1996 Nov 15; 271(46):29029–33

The Saccharomyces cerevisiae Prp5 protein has RNA-dependent ATPase activity with specificity for U2 small nuclear RNA. O'Day CL, et al. **J Biol Chem** 1996 Dec 27;271(52):33261–7

Interaction of MAD2 with the carboxyl terminus of the insulin receptor but not with the IGFIR. Evidence for release from the insulin receptor after activation. O'Neill TJ, et al. **J Biol Chem** 1997 Apr 11;272(15):10035–40

The zinc binuclear cluster activator AlcR is able to bind to single sites but requires multiple repeated sites for synergistic activation of the alcA gene in Aspergillus nidulans. Panozzo C, et al. **J Biol Chem** 1997 Sep 5; 272(36):22859–65

Mitochondrial protein import. Tom40 plays a major role in targeting and translocation of preproteins by forming a specific binding site for the presequence. Rapaport D, et al. **J Biol Chem** 1997 Jul 25;272(30):18725–31

A complex composed of tup1 and ssn6 represses transcription in vitro. Redd MJ, et al. **J Biol Chem** 1997 Apr 25; 272(17):11193–7

Analysis of a yeast SNARE complex reveals remarkable similarity to the neuronal SNARE complex and a novel function for the C terminus of the SNAP-25 homolog, Sec9. Rossi G, et al. **J Biol Chem** 1997 Jun 27; 272(26):16610–7

Rtg3p, a basic helix-loop-helix/leucine zipper protein that functions in mitochondrial-induced changes in gene expression, contains independent activation domains. Rothermel BA, et al. **J Biol Chem** 1997 Aug 8; 272(32):19801–7

Identification of native complexes containing the yeast coactivator/repressor proteins NGG1/ADA3 and ADA2. Saleh A, et al. **J Biol Chem** 1997 Feb 28;272(9):5571–8

Binding of activated cyclosome to p13(suc1). Use for affinity purification. Sudakin V, et al. **J Biol Chem** 1997 Jul 18; 272(29):18051–9

The yeast nucleolar protein Nop4p contains four RNA recognition motifs necessary for ribosome biogenesis. Sun C, et al. **J Biol Chem** 1997 Oct 3;272(40):25345–52

Yeast Rad51 recombinase mediates polar DNA strand exchange in the absence of ATP hydrolysis. Sung P, et al. **J Biol Chem** 1996 Nov 8;271(45):27983–6

Identification of a mammalian Golgi Sec1p-like protein, mVps45. Tellam JT, et al. **J Biol Chem** 1997 Mar 7; 272(10):6187–93

Ssd1p of Saccharomyces cerevisiae associates with RNA. Uesono Y, et al. **J Biol Chem** 1997 Jun 27;272(26):16103–9

SWI/SNF stimulates the formation of disparate activator-nucleosome complexes but is partially redundant with cooperative binding. Utley RT, et al. **J Biol Chem** 1997 May 9;272(19):12642–9

The Saccharomyces cerevisiae AP-1 protein discriminates between oxidative stress elicited by the oxidants H2O2 and diamide. Wemmie JA, et al. **J Biol Chem** 1997 Mar 21; 272(12):7908–14

Ras2 and Ras1 protein phosphorylation in Saccharomyces cerevisiae. Whistler JL, et al. **J Biol Chem** 1997 Jul 25; 272(30):18790–800

In vitro studies of the Prp9.Prp11.Prp21 complex indicate a pathway for U2 small nuclear ribonucleoprotein activation. Wiest DK, et al. **J Biol Chem** 1996 Dec 27; 271(52):33268–76

Elements of neural adhesion molecules and a yeast vacuolar protein sorting receptor are present in a novel mammalian low density lipoprotein receptor family member. Yamazaki H, et al. **J Biol Chem** 1996 Oct 4;271(40):24761–8

The yeast homeodomain protein MATalpha2 shows extended DNA binding specificity in complex with Mcm1. Zhong H, et al. **J Biol Chem** 1997 Mar 28;272(13):8402–9

A study of protein-water exchange through the off-resonance ROESY experiment: application to the DNA-binding domain of AlcR. Birlirakis N, et al. **J Biomol NMR** 1996 Dec;8(4):487–91

Control of mitotic events by Nap1 and the Gin4 kinase. Altman R, et al. **J Cell Biol** 1997 Jul 14;138(1):119–30

A small conserved domain in the yeast Spa2p is necessary and sufficient for its polarized localization. Arkowitz RA, et al. **J Cell Biol** 1997 Jul 14;138(1):17–36

Mdm12p, a component required for mitochondrial inheritance that is conserved between budding and fission yeast. Berger KH, et al. **J Cell Biol** 1997 Feb 10; 136(3):545–53

Two separate signals act independently to localize a yeast late Golgi membrane protein through a combination of retrieval and retention. Bryant NJ, et al. **J Cell Biol** 1997 Jan 27;136(2):287–97

The refolding activity of the yeast heat shock proteins Ssa1 and Ssa2 defines their role in protein translocation. Bush GL, et al. **J Cell Biol** 1996 Dec;135(5):1229–37

A multispecificity syntaxin homologue, Vam3p, essential for autophagic and biosynthetic protein transport to the vacuole. Darsow T, et al. **J Cell Biol** 1997 Aug 11; 138(3):517–29

Identification of novel vesicles in the cytosol to vacuole protein degradation pathway. Huang PH, et al. **J Cell Biol** 1997 Feb 24;136(4):803–10

In vitro reconstitution of cortical actin assembly sites in budding yeast. Lechler T, et al. **J Cell Biol** 1997 Jul 14; 138(1):95–103

Bee1, a yeast protein with homology to Wiscott-Aldrich syndrome protein, is critical for the assembly of cortical actin cytoskeleton. Li R. **J Cell Biol** 1997 Feb 10; 136(3):649–58

Docking of yeast vacuoles is catalyzed by the Ras-like GTPase Ypt7p after symmetric priming by Sec18p (NSF). Mayer A, et al. **J Cell Biol** 1997 Jan 27;136(2):307–17

Activation of an MAP kinase cascade leads to Sir3p hyperphosphorylation and strengthens transcriptional silencing. Stone EM, et al. **J Cell Biol** 1996 Nov; 135(3):571–83

A heterodimer of thioredoxin and I(B)2 cooperates with Sec18p (NSF) to promote yeast vacuole inheritance. Xu Z, et al. **J Cell Biol** 1997 Jan 27;136(2):299–306

The SAC3 gene encodes a nuclear protein required for normal progression of mitosis. Bauer A, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1575–83

Sec12p requires Rer1p for sorting to coatomer (COPI)-coated vesicles and retrieval to the ER. Boehm J, et al. **J Cell Sci** 1997 Apr;110 (Pt 8):991–1003

The kinetics of the B cyclin p56cdc13 and the phosphatase p80cdc25 during the cell cycle of the fission yeast Schizosaccharomyces pombe. Creanor J, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1647–53

Mutations in the fission yeast silencing factors clr4+ and rik1+ disrupt the localisation of the chromo domain protein Swi6p and impair centromere function. Ekwall K, et al. **J Cell Sci** 1996 Nov;109 (Pt 11):2637–48

DNA damage inhibits proteolysis of the B-type cyclin Clb5 in S. cerevisiae. Germain D, et al. **J Cell Sci** 1997 Aug; 110 (Pt 15):1813–20

Fission yeast Nda1 and Nda4, MCM homologs required for DNA replication, are constitutive nuclear proteins. Okishio N, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):319–26

The spacer protein Spc110p targets calmodulin to the central plaque of the yeast spindle pole body. Spang A, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2229–37

Mutations which block the binding of calmodulin to Spc110p cause multiple mitotic defects. Stirling DA, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1297–310

Distinct subunit functions and cell cycle regulated phosphorylation of 20S APC/cyclosome required for anaphase in fission yeast. Yamada H, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1793–804

Differential expression of the 45 kDa protein (actin) during the dimorphic transition of Sporothrix schenckii. Han-Yaku H, et al. **J Med Vet Mycol** 1996 Jun-Jul; 34(3):175–80

Protein transport from the cytoplasm into the vacuole. Klionsky DJ. **J Membr Biol** 1997 May 15;157(2):105–15 (65 ref.)

Separate binding sites on nuclear transport factor 2 (NTF2) for GDP-Ran and the phenylalanine-rich repeat regions of nucleoporins p62 and Nsp1p. Clarkson WD, et al. **J Mol Biol** 1996 Nov 8;263(4):517–24

Role of mitochondrial GrpE and phosphate in the ATPase cycle of matrix Hsp70. Dekker PJ, et al. **J Mol Biol** 1997 Jul 18;270(3):321–7

The yeast site-specific recombinase Flp mediates alcoholysis and hydrolysis of the strand cleavage product: mimicking the strand-joining reaction with non-DNA nucleophiles. Knudsen BR, et al. **J Mol Biol** 1997 Feb 14;266(1):93–107

Mge1 functions as a nucleotide release factor for Ssc1, a mitochondrial Hsp70 of Saccharomyces cerevisiae. Miao B, et al. **J Mol Biol** 1997 Feb 7;265(5):541–52

Blue light induced ADP ribosylation of 38 and 56 kDa proteins in the soluble fraction of mycelia of Neurospora crassa. Mizoguchi K, et al. **J Photochem Photobiol B** 1996 Sep;35(3):197–201

Transcription in vitro with Saccharomyces cerevisiae mitochondrial RNA-polymerase. Mangus DA, et al. **Methods Enzymol** 1996;264:57–66

Biochemical mechanism of transcriptional activation by GAL4-VP16. Tantin D, et al. **Methods Enzymol** 1996; 274:133–49

Cell-free ubiquitination of cell cycle regulators in budding yeast extracts. Verma R, et al. **Methods Enzymol** 1997; 283:366–76

A DNA-binding protein from Candida albicans that binds to the RPG box of Saccharomyces cerevisiae and the telomeric repeat sequence of C. albicans. Ishii N, et al. **Microbiology** 1997 Feb;143 (Pt 2):417–27

Interaction between yeast Cdc6 protein and B-type cyclin/Cdc28 kinases. Elsasser S, et al. **Mol Biol Cell** 1996 Nov;7(11):1723–35

COPII coat subunit interactions: Sec24p and Sec23p bind to adjacent regions of Sec16p. Gimeno RE, et al. **Mol Biol Cell** 1996 Nov;7(11):1815–23

Functional analysis of the interaction between Afr1p and the

Cdc12p septin, two proteins involved in pheromone-induced morphogenesis. Giot L, et al. **Mol Biol Cell** 1997 Jun;8(6):987–98

Transport through the yeast endocytic pathway occurs through morphologically distinct compartments and requires an active secretory pathway and Sec18p/N-ethylmaleimide-sensitive fusion protein. Hicke L, et al. **Mol Biol Cell** 1997 Jan;8(1):13–31

A sorting nexin-1 homologue, Vps5p, forms a complex with Vps17p and is required for recycling the vacuolar protein-sorting receptor. Horazdovsky BF, et al. **Mol Biol Cell** 1997 Aug;8(8):1529–41

Evidence for physical and functional interactions among two Saccharomyces cerevisiae SH3 domain proteins, an adenylyl cyclase-associated protein and the actin cytoskeleton. Lila T, et al. **Mol Biol Cell** 1997 Feb; 8(2):367–85

In vitro reconstitution of a heterotrimeric nucleoporin complex consisting of recombinant Nsp1p, Nup49p, and Nup57p. Schlaich NL, et al. **Mol Biol Cell** 1997 Jan; 8(1):33–46

Domains determining the functional distinction of the fission yeast cell cycle "start" molecules Res1 and Res2. Sturm S, et al. **Mol Biol Cell** 1996 Dec;7(12):1967–76

SIC1 is ubiquitinated in vitro by a pathway that requires CDC4, CDC34, and cyclin/CDK activities. Verma R, et al. **Mol Biol Cell** 1997 Aug;8(8):1427–37

Multiple classes of yeast mutants are defective in vacuole partitioning yet target vacuole proteins correctly. Wang YX, et al. **Mol Biol Cell** 1996 Sep;7(9):1375–89

Pep7p provides a novel protein that functions in vesicle-mediated transport between the yeast Golgi and endosome. Webb GC, et al. **Mol Biol Cell** 1997 May; 8(5):871–95

Mcm2 and Mcm3 are constitutive nuclear proteins that exhibit distinct isoforms and bind chromatin during specific cell cycle stages of Saccharomyces cerevisiae. Young MR, et al. **Mol Biol Cell** 1997 Aug;8(8):1587–601

Chs1p and Chs3p, two proteins involved in chitin synthesis, populate a compartment of the Saccharomyces cerevisiae endocytic pathway. Ziman M, et al. **Mol Biol Cell** 1996 Dec;7(12):1909–19

DNA-binding specificity of Mcm1: operator mutations that alter DNA-bending and transcriptional activities by a MADS box protein. Acton TB, et al. **Mol Cell Biol** 1997 Apr;17(4):1881–9

Genetic and biochemical analysis of Msh2p-Msh6p: role of ATP hydrolysis and Msh2p-Msh6p subunit interactions in mismatch base pair recognition. Alani E, et al. **Mol Cell Biol** 1997 May;17(5):2436–47

The Saccharomyces cerevisiae Msh2 and Msh6 proteins form a complex that specifically binds to duplex oligonucleotides containing mismatched DNA base pairs. Alani E. **Mol Cell Biol** 1996 Oct;16(10):5604–15

Identification of Ste4 as a potential regulator of Byr2 in the sexual response pathway of Schizosaccharomyces pombe. Barr MM, et al. **Mol Cell Biol** 1996 Oct;16(10):5597–603

Functional analysis of Rrp7p, an essential yeast protein involved in pre-rRNA processing and ribosome assembly. Baudin-Baillieu A, et al. **Mol Cell Biol** 1997 Sep; 17(9):5023–32

Cooperative binding interactions required for function of the Ty1 sterile responsive element. Baur M, et al. **Mol Cell Biol** 1997 Aug;17(8):4330–7

Cla4p, a Saccharomyces cerevisiae Cdc42p-activated kinase involved in cytokinesis, is activated at mitosis. Benton BK, et al. **Mol Cell Biol** 1997 Sep;17(9):5067–76

Novel Gal3 proteins showing altered Gal80p binding cause constitutive transcription of Gal4p-activated genes in Saccharomyces cerevisiae. Blank TE, et al. **Mol Cell Biol** 1997 May;17(5):2566–75

The yeast SWI-SNF complex facilitates binding of a transcriptional activator to nucleosomal sites in vivo. Burns LG, et al. **Mol Cell Biol** 1997 Aug;17(8):4811–9

Saccharomyces cerevisiae Mpt5p interacts with Sst2p and plays roles in pheromone sensitivity and recovery from pheromone arrest. Chen T, et al. **Mol Cell Biol** 1997 Jun; 17(6):3429–39

Function of the c-Myc antagonist Mad1 during a molecular switch from proliferation to differentiation. Cultraro CM, et al. **Mol Cell Biol** 1997 May;17(5):2353–9

Characterization of Cdc47p-minichromosome maintenance complexes in Saccharomyces cerevisiae: identification of Cdc45p as a subunit. Dalton S, et al. **Mol Cell Biol** 1997 Oct;17(10):5867–75

Ran-binding protein 5 (RanBP5) is related to the nuclear transport factor importin-beta but interacts differently with RanBP1. Deane R, et al. **Mol Cell Biol** 1997 Sep; 17(9):5087–96

The DNA binding and activation domains of Gal4p are sufficient for conveying its regulatory signals. Ding WV, et al. **Mol Cell Biol** 1997 May;17(5):2538–49

C-terminal truncations of the yeast nucleoporin Nup145p produce a rapid temperature-conditional mRNA export defect and alterations to nuclear structure [published erratum appears in Mol Cell Biol 1997 Apr;17(4):2347–50] Dockendorff TC, et al. **Mol Cell Biol** 1997 Feb;17(2):906–20

The Saccharomyces cerevisiae MADS-box transcription factor Rlm1 is a target for the Mpk1 mitogen-activated protein kinase pathway. Dodou E, et al. **Mol Cell Biol** 1997 Apr;17(4):1848–59

Qsr1p, a 60S ribosomal subunit protein, is required for joining of 40S and 60S subunits. Eisinger DP, et al. **Mol Cell Biol** 1997 Sep;17(9):5136–45

Upf1p, Nmd2p, and Upf3p are interacting components of the yeast nonsense-mediated mRNA decay pathway. He F, et al. **Mol Cell Biol** 1997 Mar;17(3):1580–94

ADA1, a novel component of the ADA/GCN5 complex, has broader effects than GCN5, ADA2, or ADA3. Horiuchi J, et al. **Mol Cell Biol** 1997 Jun;17(6):3220–8

Identification of seven hydrophobic clusters in GCN4 making redundant contributions to transcriptional activation. Jackson BM, et al. **Mol Cell Biol** 1996 Oct;16(10):5557–71

Domains of the Brf component of RNA polymerase III transcription factor IIIB (TFIIIB): functions in assembly of TFIIIB-DNA complexes and recruitment of RNA polymerase to the promoter. Kassavetis GA, et al. **Mol Cell Biol** 1997 Sep;17(9):5299–306

The transcription factor Swi5 regulates expression of the cyclin kinase inhibitor p40SIC1. Knapp D, et al. **Mol Cell Biol** 1996 Oct;16(10):5701–7

Residues in the WD repeats of Tup1 required for interaction with alpha2. Komachi K, et al. **Mol Cell Biol** 1997 Oct; 17(10):6023–8

Plk is a functional homolog of Saccharomyces cerevisiae Cdc5, and elevated Plk activity induces multiple septation structures. Lee KS, et al. **Mol Cell Biol** 1997 Jun; 17(6):3408–17

A novel 66-kilodalton protein complexes with Rrn6, Rrn7, and TATA-binding protein to promote polymerase I transcription initiation in Saccharomyces cerevisiae. Lin CW, et al. **Mol Cell Biol** 1996 Nov;16(11):6436–43

Long-range interactions at the HO promoter. McBride HJ, et al. **Mol Cell Biol** 1997 May;17(5):2669–78

Evidence that GCN1 and GCN20, translational regulators of GCN4, function on elongating ribosomes in activation of eIF2alpha kinase GCN2. Marton MJ, et al. **Mol Cell Biol** 1997 Aug;17(8):4474–89

Perturbations in the spi1p GTPase cycle of Schizosaccharomyces pombe through its GTPase-activating protein and guanine nucleotide exchange factor components result in similar phenotypic consequences. Matynia A, et al. **Mol Cell Biol** 1996 Nov; 16(11):6352–62

A family of cyclin-like proteins that interact with the Pho85 cyclin-dependent kinase. Measday V, et al. **Mol Cell Biol** 1997 Mar;17(3):1212–23

A lesion in the DNA replication initiation factor Mcm10 induces pausing of elongation forks through chromosomal replication origins in Saccharomyces cerevisiae. Merchant AM, et al. **Mol Cell Biol** 1997 Jun;17(6):3261–71

Characterization of strand exchange activity of yeast Rad51 protein. Namsaraev E, et al. **Mol Cell Biol** 1997 Sep; 17(9):5359–68

Yrb2p, a Nup2p-related yeast protein, has a functional overlap with Rna1p, a yeast Ran-GTPase-activating protein. Noguchi E, et al. **Mol Cell Biol** 1997 Apr; 17(4):2235–46

Functional domains of the Saccharomyces cerevisiae Mlh1p and Pms1p DNA mismatch repair proteins and their relevance to human hereditary nonpolyposis colorectal cancer-associated mutations. Pang Q, et al. **Mol Cell Biol** 1997 Aug;17(8):4465–73

Interaction between yeast Sup45p (eRF1) and Sup35p (eRF3) polypeptide chain release factors: implications for prion-dependent regulation. Paushkin SV, et al. **Mol Cell Biol** 1997 May;17(5):2798–805

Glucose derepression of gluconeogenic enzymes in Saccharomyces cerevisiae correlates with phosphorylation of the gene activator Cat8p. Randez-Gil F, et al. **Mol Cell Biol** 1997 May;17(5):2502–10

Effect of association with adenylyl cyclase-associated protein on the interaction of yeast adenylyl cyclase with Ras protein. Shima F, et al. **Mol Cell Biol** 1997 Mar; 17(3):1057–64

The mammalian homolog of yeast Sec13p is enriched in the intermediate compartment and is essential for protein transport from the endoplasmic reticulum to the Golgi apparatus. Tang BL, et al. **Mol Cell Biol** 1997 Jan; 17(1):256–66

EH domain proteins Pan1p and End3p are components of a complex that plays a dual role in organization of the cortical actin cytoskeleton and endocytosis in Saccharomyces cerevisiae. Tang HY, et al. **Mol Cell Biol** 1997 Aug;17(8):4294–304

Multiple regulatory domains on the Byr2 protein kinase. Tu H, et al. **Mol Cell Biol** 1997 Oct;17(10):5876–87

Ribosomal protein L32 of Saccharomyces cerevisiae influences both the splicing of its own transcript and the processing of rRNA. Vilardell J, et al. **Mol Cell Biol** 1997 Apr;17(4):1959–65

Histone acetyltransferase activity is conserved between yeast and human GCN5 and is required for complementation of growth and transcriptional activation. Wang L, et al. **Mol Cell Biol** 1997 Jan;17(1):519–27

Characterization of a serum response factor-like protein in Saccharomyces cerevisiae, Rlm1, which has transcriptional activity regulated by the Mpk1 (Slt2) mitogen-activated protein kinase pathway. Watanabe Y, et al. **Mol Cell Biol** 1997 May;17(5):2615–23

Prp31p promotes the association of the U4/U6 x U5 tri-snRNP with prespliceosomes to form spliceosomes in Saccharomyces cerevisiae. Weidenhammer EM, et al. **Mol Cell Biol** 1997 Jul;17(7):3580–8

Genetic and biochemical characterization of mutations in the ATPase and helicase regions of the Upf1 protein. Weng Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5477–90

Role of the mitochondrial DnaJ homolog Mdj1p as a chaperone for mitochondrially synthesized and imported proteins. Westermann B, et al. **Mol Cell Biol** 1996 Dec; 16(12):7063–71

Pet127p, a membrane-associated protein involved in stability and processing of Saccharomyces cerevisiae mitochondrial RNAs. Wiesenberger G, et al. **Mol Cell Biol** 1997 May; 17(5):2816–24

Interaction between the small GTPase Ran/Gsp1p and Ntf2p is required for nuclear transport. Wong DH, et al. **Mol Cell Biol** 1997 Jul;17(7):3755–67

Evidence that complex formation by Bas1p and Bas2p (Pho2p) unmasks the activation function of Bas1p in an adenine-repressible step of ADE gene transcription. Zhang F, et al. **Mol Cell Biol** 1997 Jun;17(6):3272–83

Identification of a member of a DNA-dependent ATPase family that causes interference with silencing. Zhang Z, et al. **Mol Cell Biol** 1997 Sep;17(9):5461–72

The Uba2 and Ufd1 proteins of Saccharomyces cerevisiae interact with poly(A) polymerase and affect the polyadenylation activity of cell extracts. del Olmo M, et al. **Mol Gen Genet** 1997 Jun;255(2):209–18

Protein factors in Blastocladiella emersonii cell extracts recognize similar sequence elements in the promoters of the genes encoding cAMP-dependent protein kinase subunits. de Oliveira JC, et al. **Mol Gen Genet** 1997 Aug; 255(5):495–503

Respiration and low cAMP-dependent protein kinase activity are required for high-level expression of the peroxisomal thiolase gene in Saccharomyces cerevisiae. Igual JC, et al. **Mol Gen Genet** 1996 Sep 25;252(4):446–55

A soluble 12-kDa protein of the mitochondrial intermembrane space, Mrs11p, is essential for mitochondrial biogenesis and viability of yeast cells. Jarosch E, et al. **Mol Gen Genet** 1997 Jun;255(2):157–65

Characterization of a promoter mutation in the CYP3 gene of Saccharomyces cerevisiae which cancels regulation by Cyp1p (Hap1p) without affecting its binding site. Lodi T, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):103–10

The DNA target sequence influences the dependence of the yeast transcriptional activator Gcn4 on co-factors. Tavernarakis N, et al. **Mol Gen Genet** 1997 Feb 27; 253(6):766–9

A newly identified gene cluster in Aspergillus nidulans comprises five novel genes localized in the alc region that are controlled both by the specific transactivator AlcR and the general carbon-catabolite repressor CreA. Fillinger S, et al. **Mol Microbiol** 1996 May;20(3):475–88

Stationary-phase induction of GLR1 expression is mediated by the yAP-1 transcriptional regulatory protein in the yeast Saccharomyces cerevisiae. Grant CM, et al. **Mol Microbiol** 1996 Nov;22(4):739–46

Yeast glutathione reductase is required for protection against oxidative stress and is a target gene for yAP-1 transcriptional regulation. Grant CM, et al. **Mol Microbiol** 1996 Jul;21(1):171–9

Saccharomyces cerevisiae chorismate synthase has a flavin reductase activity. Henstrand JM, et al. **Mol Microbiol** 1996 Dec;22(5):859–66

The role of the Saccharomyces cerevisiae CCC1 gene in the homeostasis of manganese ions. Lapinskas PJ, et al. **Mol Microbiol** 1996 Aug;21(3):519–28

Mutations in a dispensable region of the UaY transcription factor of Aspergillus nidulans differentially affect the expression of structural genes. Oestreicher N, et al. **Mol Microbiol** 1997 Jun;24(6):1189–99

Depletion in the levels of the release factor eRF1 causes a reduction in the efficiency of translation termination in yeast. Stansfield I, et al. **Mol Microbiol** 1996 Jun; 20(6):1135–43

Ste50p sustains mating pheromone-induced signal transduction in the yeast Saccharomyces cerevisiae. Xu G, et al. **Mol Microbiol** 1996 May;20(4):773–83

Self-association of human RAD52 protein. Shen Z, et al. **Mutat Res** 1996 Oct 18;364(2):81–9

Looms to weave genomic nets [news; comment] Brent R. **Nat Genet** 1997 Jul;16(3):216–7. Comment on: Nat Genet 1997 Jul;16(3):277–81.

Toward a functional analysis of the yeast genome through exhaustive two-hybrid screens [see comments] Fromont-Racine M, et al. **Nat Genet** 1997 Jul;16(3):277–82 . Comment in: Nat Genet 1997 Jul;16(3):216–7.

Regulation of telomere length and function by a Myb-domain protein in fission yeast [see comments] Cooper JP, et al. **Nature** 1997 Feb 20;385(6618):744–7. Comment in: Nature 1997 Feb 20;385(6618):676–7.

The histone deacetylase RPD3 counteracts genomic silencing in Drosophila and yeast. De Rubertis F, et al. **Nature** 1996 Dec 12;384(6609):589–91

Essential role for diacylglycerol in protein transport from the yeast Golgi complex [see comments] Kearns BG, et al. **Nature** 1997 May 1;387(6628):101–5. Comment in: Nature 1997 May 1;387(6628):21–2.

Nucleotide exchange on ARF mediated by yeast Gea1 protein. Peyroche A, et al. **Nature** 1996 Dec 5; 384(6608):479–81

Mutant analysis links the translocon and BiP to retrograde protein transport for ER degradation. Plemper RK, et al. **Nature** 1997 Aug 28;388(6645):891–5

Telomeres. Different means to common ends [news; comment] Shore D. **Nature** 1997 Feb 20;385(6618):676–7. Comment on: Nature 1997 Feb 20;385(6618):740–3.

Import of carrier proteins into the mitochondrial inner membrane mediated by Tim22. Sirrenberg C, et al. **Nature** 1996 Dec 12;384(6609):582–5

Translocation arrest of an intramitochondrial sorting signal next to Tim11 at the inner–membrane import site. Tokatlidis K, et al. **Nature** 1996 Dec 12;384(6609):585–8

Yeast DNA ligase IV mediates non–homologous DNA end joining [see comments] Wilson TE, et al. **Nature** 1997 Jul 31;388(6641):495–8. Comment in: Nature 1997 Jul 31;388(6641):428–9.

The homeodomain protein Pho2 and the basic–helix–loop–helix protein Pho4 bind DNA cooperatively at the yeast PHO5 promoter. Barbarić S, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4479–86

RNase YI* and RNA structure studies. Cannistraro VJ, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1405–12

Altered structure of the DNA duplex recognized by yeast transcription factor Reb1p. Davis DR, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):668–74

FLP–mediated recombination of FRT sites in the maize genome. Lyznik LA, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3784–9

Global alterations in chromatin accessibility associated with loss of SIN4 function. Macatee T, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1240–7

The role of a basic amino acid cluster in target site selection and non–specific binding of bZIP peptides to DNA. Metallo SJ, et al. **Nucleic Acids Res** 1997 Aug 1; 25(15):2967–72

Effects of antisense DNA against the alpha–sarcin stem–loop structure of the ribosomal 23S rRNA. Meyer HA, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3996–4002

Saccharomyces cerevisiae IRE2/HAC1 is involved in IRE1–mediated KAR2 expression. Nikawa J, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4222–6

A tri–hybrid system for the analysis and detection of RNA—protein interactions. Putz U, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4838–40

The Cbp2 protein stimulates the splicing of the omega intron of yeast mitochondria. Shaw LC, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1597–604

The Cbp2 protein suppresses splice site mutations in a group I intron. Shaw LC, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3415–23

NMR analysis of CYP1(HAP1) DNA binding domain–CYC1 upstream activation sequence interactions: recognition of a CGG trinucleotide and of an additional thymine 5 bp downstream by the zinc cluster and the N–terminal extremity of the protein. Vuidepot AL, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):3042–50

The XPB subunit of repair/transcription factor TFIIH directly interacts with SUG1, a subunit of the 26S proteasome and putative transcription factor. Weeda G, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2274–83

Conditional gene targeted deletion by Cre recombinase demonstrates the requirement for the double–strand break repair Mre11 protein in murine embryonic stem cells. Xiao Y, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):2985–91

Functional and physical interaction between the yeast splicing factors Slu7 and Prp18. Zhang X, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2146–52

ECA39 is regulated by c–Myc in human and by a Jun/Fos homolog, Gcn4, in yeast. Ben–Yosef T, et al. **Oncogene** 1996 Nov 7;13(9):1859–66

Novel, activated RAS mutations alter protein–protein interactions. Dalley BK, et al. **Oncogene** 1996 Sep 19; 13(6):1209–20

The wheat transcriptional activator SPA: a seed–specific bZIP protein that recognizes the GCN4–like motif in the bifactorial endosperm box of prolamin genes. Albani D, et al. **Plant Cell** 1997 Feb;9(2):171–84

Characterization of AtSEC12 and AtSAR1. Proteins likely involved in endoplasmic reticulum and Golgi transport. Bar–Peled M, et al. **Plant Physiol** 1997 May;114(1):315–24

Differential effect of purified spruce chitinases and beta–1,3–glucanases on the activity of elicitors from ectomycorrhizal fungi. Salzer P, et al. **Plant Physiol** 1997 Jul;114(3):957–68

hMSH2 forms specific mispair–binding complexes with hMSH3 and hMSH6. Acharya S, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13629–34

The ATM homologue MEC1 is required for phosphorylation of replication protein A in yeast. Brush GS, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15075–80

Activation domain–mediated enhancement of activator binding to chromatin in mammalian cells. Bunker CA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10820–5

Transcription factor TFIIH and DNA endonuclease Rad2 constitute yeast nucleotide excision repair factor 3: implications for nucleotide excision repair and Cockayne syndrome. Habraken Y, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10718–22

The Schizosaccharomyces pombe spindle checkpoint protein mad2p blocks anaphase and genetically interacts with the anaphase–promoting complex. He X, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7965–70

Cdc45p assembles into a complex with Cdc46p/Mcm5p, is required for minichromosome maintenance, and is essential for chromosomal DNA replication. Hopwood B, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12309–14

The large subunit of RNA polymerase II is a substrate of the Rsp5 ubiquitin–protein ligase. Huibregtse JM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3656–61

Probing the environment along the protein import pathways in yeast mitochondria by site–specific photocrosslinking. Kanamori T, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):485–90

A new pathway for vacuolar cadmium sequestration in Saccharomyces cerevisiae: YCF1–catalyzed transport of bis(glutathionato)cadmium. Li ZS, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):42–7

The cellulose–binding domain of the major cellobiohydrolase of Trichoderma reesei exhibits true reversibility and a high exchange rate on crystalline cellulose. Linder M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12251–5

Coordination dynamics of biological zinc "clusters" in metallothioneins and in the DNA–binding domain of the transcription factor Gal4. Maret W, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2233–7

Silent information regulator protein complexes in Saccharomyces cerevisiae: a SIR2/SIR4 complex and evidence for a regulatory domain in SIR4 that inhibits its interaction with SIR3. Moazed D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2186–91

Two active states of the Ras–related Bud1/Rsr1 protein bind to different effectors to determine yeast cell polarity. Park HO, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4463–8

Saccharomyces cerevisiae Gcs1 is an ADP–ribosylation factor GTPase–activating protein. Poon PP, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10074–7

Rer1p as common machinery for the endoplasmic reticulum localization of membrane proteins. Sato K, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9693–8

Importin/karyopherin protein family members required for mRNA export from the nucleus. Seedorf M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8590–5

A Saccharomyces cerevisiae homolog of the human adrenoleukodystrophy transporter is a heterodimer of two half ATP–binding cassette transporters. Shani N, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11901–6

Transcriptional repression at a distance through exclusion of activator binding in vivo. Shimizu M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):790–5

The essential yeast RNA binding protein Np13p is methylated. Siebel CW, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13641–6

Synaptonemal complex (SC) component Zip1 plays a role in meiotic recombination independent of SC polymerization along the chromosomes. Storlazzi A, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9043–8

Direct involvement of the ubiquitin–conjugating enzyme Ubc9/Hus5 in the degradation of IkappaBalpha. Tashiro K, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22; 94(15):7862–7

The cyclin–dependent kinase inhibitor p40SIC1 imposes the requirement for Cln G1 cyclin function at Start. Tyers M. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7772–6

Gene induction in response to unfolded protein in the endoplasmic reticulum is mediated through Ire1p kinase interaction with a transcriptional coactivator complex containing Ada5p. Welihinda AA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4289–94

Proteasome–dependent endoplasmic reticulum–associated protein degradation: an unconventional route to a familiar fate. Werner ED, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13797–801

A new prion controls fungal cell fusion incompatibility. Wickner RB. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10012–4 (21 ref.)

Dimerization of Ste5, a mitogen–activated protein kinase cascade scaffold protein, is required for signal transduction. Yablonski D, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13864–9

Transcriptional repression by YY1 is mediated by interaction with a mammalian homolog of the yeast global regulator RPD3. Yang WM, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12845–50

Galactose–dependent reversible interaction of Gal3p with Gal80p in the induction pathway of Gal4p–activated genes of Saccharomyces cerevisiae. Yano K, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1721–6

Target of rapamycin proteins and their kinase activities are required for meiosis. Zheng XF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3070–5

Involvement of a residue at position 75 in the catalytic mechanism of a fungal aspartic proteinase, Rhizomucor pusillus pepsin. Replacement of tyrosine 75 on the flap by asparagine enhances catalytic efficiency. Park YN, et al. **Protein Eng** 1996 Oct;9(10):869–75

Synthetic leaders with potential BiP binding mediate high–yield secretion of correctly folded insulin precursors from Saccharomyces cerevisiae. Kjeldsen T, et al. **Protein Expr Purif** 1997 Apr;9(3):331–6

Yeast chromatin reconstitution system using purified yeast core histones and yeast nucleosome assembly protein–1. Pilon J, et al. **Protein Expr Purif** 1997 Jun;10(1):132–40

RNA–dependent RNA polymerase activity associated with the yeast viral p91/20S RNA ribonucleoprotein complex. García–Cuéllar MP, et al. **RNA** 1997 Jan;3(1):27–36

Kap104p: a karyopherin involved in the nuclear transport of messenger RNA binding proteins. Aitchison JD, et al. **Science** 1996 Oct 25;274(5287):624–7

Regulation of mitochondrial iron accumulation by Yfh1p, a putative homolog of frataxin. Babcock M, et al. **Science** 1997 Jun 13;276(5319):1709–12

Cells count proteins to keep their telomeres in line [news; comment] Barinaga M. **Science** 1997 Feb 14;275(5302):928 . Comment on: Science 1997 Feb 14;275(5302):973–7. Comment on: Science 1997 Feb 14;275(5302):986–90.

Modulation of Ras and a–factor function by carboxyl–terminal proteolysis [see comments] Boyartchuk VL, et al. **Science** 1997 Mar 21;275(5307):1796–800. Comment in: Science 1997 Mar 21;275(5307):1750–1.

Control of filament formation in Candida albicans by the transcriptional repressor TUP1 [see comments] Braun BR, et al. **Science** 1997 Jul 4;277(5322):105–9. Comment in: Science 1997 Jul 4;277(5322):52–3.

Drosophila mitotic domain boundaries as cell fate boundaries. Cambridge SB, et al. **Science** 1997 Aug 8;277(5327):825–8

Bni1p, a yeast formin linking cdc42p and the actin cytoskeleton during polarized morphogenesis. Evangelista M, et al. **Science** 1997 Apr 4;276(5309):118–22

Cdc25 mitotic inducer targeted by chk1 DNA damage checkpoint kinase [see comments] Furnari B, et al. **Science** 1997 Sep 5;277(5331):1495–7. Comment in: Science 1997 Sep 5;277(5331):1450–1.

Ste5 RING–H2 domain: role in Ste4–promoted oligomerization for yeast pheromone signaling. Inouye C, et al. **Science** 1997 Oct 3;278(5335):103–6

Functional specificity among Hsp70 molecular chaperones. James P, et al. **Science** 1997 Jan 17;275(5298):387–9

SBF cell cycle regulator as a target of the yeast PKC–MAP kinase pathway. Madden K, et al. **Science** 1997 Mar 21; 275(5307):1781–4

Combinatorial control required for the specificity of yeast MAPK signaling. Madhani HD, et al. **Science** 1997 Feb 28;275(5304):1314–7

Which came first, the hypha or the yeast? [comment] Magee PT. **Science** 1997 Jul 4;277(5322):52–3. Comment on: Science 1997 Jul 4;277(5322):105–9.

A protein–counting mechanism for telomere length regulation in yeast [see comments] Marcand S, et al. **Science** 1997 Feb 14;275(5302):986–90. Comment in: Science 1997 Feb 14;275(5302):928.

Protein transport by purified yeast Sec complex and Kar2p without membranes. Matlack KE, et al. **Science** 1997 Aug 15;277(5328):938–41

Yarrowia lipolytica SRP54 homolog and translocation of Kar2p. Lee IH, et al. **Yeast** 1997 May;13(6):499–513

Specific labelling of cell wall proteins by biotinylation. Identification of four covalently linked O–mannosylated proteins of Saccharomyces cerevisiae. Mrsä V, et al. **Yeast** 1997 Sep 30;13(12):1145–54

Role of the cytoskeleton in endocytosis of the yeast maltose transporter. Peñalver E, et al. **Yeast** 1997 May;13(6):541–9

Vacuolar and extracellular maturation of Saccharomyces cerevisiae proteinase A. Wolff AM, et al. **Yeast** 1996 Jul; 12(9):823–32

[Fusion of glutathione S–transferase with the N–terminus of yeast Sup35p protein inhibits its prion–like properties] Dagkesamanskaia AR, et al. **Genetika** 1997 May; 33(5):610–5 (Eng. Abstr.) **(Rus)**

[Cellulolytic activity of coprophilic fungi] Levin LN, et al. **Rev Argent Microbiol** 1996 Jul–Sep;28(3):132–8 (Eng. Abstr.) **(Spa)**

PHARMACOLOGY

Purification and characterization of a 15 kDa protein (p15) produced by Helicosporium that exhibits distinct effects on neurite outgrowth from cortical neurons and PC12 cells. Hanada T, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):209–15

Effect of yeast and human DnaJ homologs on clathrin uncoating by 70 kilodalton heat shock protein. King C, et al. **Biochemistry** 1997 Apr 8;36(14):4067–73

Meiosis–specific DNA double–strand breaks are catalyzed by Spo11, a member of a widely conserved protein family. Keeney S, et al. **Cell** 1997 Feb 7;88(3):375–84

Cytotoxicity of two new ribosome–inactivating proteins, cinnamomin and camphorin, to carcinoma cells. Ling J, et al. **Cell Biochem Funct** 1996 Sep;14(3):157–61

Mannoproteins of Cryptococcus neoformans induce proliferative response in human peripheral blood mononuclear cells (PBMC) and enhance HIV–1 replication. Orendi JM, et al. **Clin Exp Immunol** 1997 Feb; 107(2):293–9

Cytokine responses to the native and recombinant forms of the major surface glycoprotein of Pneumocystis carinii. Theus SA, et al. **Clin Exp Immunol** 1997 Aug;109(2):255–60

Tobacco cells contain a protein, immunologically related to the neutrophil small G protein Rac2 and involved in elicitor–induced oxidative burst. Kieffer F, et al. **FEBS Lett** 1997 Feb 17;403(2):149–53

Aggregation of yeast cells induced by the Arg–Gly–Asp motif–containing fragment of high–molecular–mass cell–adhesion protein MFBA, derived from the basidiomycetous mushroom Lentinus edodes. Yasuda T, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):195–200

The immunomodulatory and antitumor activities of lectins from the mushroom Tricholoma mongolicum. Wang HX, et al. **Immunopharmacology** 1996 Mar;31(2–3):205–11

Role of gamma–tubulin in mitosis–specific microtubule

nucleation from the Schizosaccharomyces pombe spindle pole body. Masuda H, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):165–77

A novel phospholipase C inhibitor, S-PLI produced by Streptomyces sp. strain no. A-6288. Suzuki K, et al. **J Enzyme Inhib** 1996;10(3):177–86

The mode of action of hirsutellin A on eukaryotic cells. Liu JC, et al. **J Invertebr Pathol** 1996 May;67(3):224–8

Killer toxins of certain yeast strains have potential growth inhibitory activity on gram-positive pathogenic bacteria. Izgü F, et al. **Microbios** 1997;89(358):15–22

Mapping the elicitor and necrotic sites of Phytophthora elicitins with synthetic peptides and reporter genes controlled by tobacco defense gene promoters. Perez V, et al. **Mol Plant Microbe Interact** 1997 Aug;10(6):750–60

Differential induction of seven 1-aminocyclopropane-1-carboxylate synthase genes by elicitor in suspension cultures of tomato (Lycopersicon esculentum). Oetiker JH, et al. **Plant Mol Biol** 1997 May; 34(2):275–86

Rapid, transient, and highly localized induction of plastidial omega-3 fatty acid desaturase mRNA at fungal infection sites in Petroselinum crispum. Kirsch C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2079–84

Receptor-mediated activation of a MAP kinase in pathogen defense of plants. Ligterink W, et al. **Science** 1997 Jun 27; 276(5321):2054–7

[Isolation of protoplasts from vegetable tissues using extracellular lytic enzymes from fusarium oxysporum f.sp. melonis] Alconada TM, et al. **Rev Argent Microbiol** 1995 Oct-Dec;27(4):191-7 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Hydrophobins: proteins that change the nature of the fungal surface. Wessels JG. **Adv Microb Physiol** 1997;38:1–45 (185 ref.)

Global regulators of ribosome biosynthesis in yeast. Planta RJ, et al. **Biochem Cell Biol** 1995 Nov-Dec; 73(11-12):825–34 (70 ref.)

Cell volume regulation in Claviceps fusiformis. An animal-type Na,K-ATPase operating in a fungus? Rauferová L, et al. **Biochem Mol Biol Int** 1997 Jan; 41(1):153–60

Cdc6 and DNA replication: limited to humble origins. Heichman KA. **Bioessays** 1996 Nov;18(11):859–62 (27 ref.)

Apolipoprotein B inhibits the hemolytic activity of asp-hemolysin from Aspergillus fumigatus. Fukuchi Y, et al. **Biol Pharm Bull** 1996 Apr;19(4):547–50

Reduced X-ray resistance and homologous recombination frequencies in a RAD54-/- mutant of the chicken DT40 cell line. Bezzubova O, et al. **Cell** 1997 Apr 18;89(2):185–93

CAR1, a TNFR-related protein, is a cellular receptor for cytopathic avian leukosis-sarcoma viruses and mediates apoptosis. Brojatsch J, et al. **Cell** 1996 Nov 29;87(5):845–55

RSC, an essential, abundant chromatin-remodeling complex. Cairns BR, et al. **Cell** 1996 Dec 27;87(7):1249–60

Disruption of mouse RAD54 reduces ionizing radiation resistance and homologous recombination. Essers J, et al. **Cell** 1997 Apr 18;89(2):195–204

Yeast Hct1 is a regulator of Clb2 cyclin proteolysis. Schwab M, et al. **Cell** 1997 Aug 22;90(4):683–93

tRNA ligase is required for regulated mRNA splicing in the unfolded protein response [see comments] Sidrauski C, et al. **Cell** 1996 Nov 1;87(3):405–13. Comment in: Cell 1996 Nov 1;87(3):357–9.

Yeast TAF(II)145 required for transcription of G1/S cyclin genes and regulated by the cellular growth state. Walker SS, et al. **Cell** 1997 Aug 22;90(4):607–14

Mitochondrial inheritance: cell cycle and actin cable dependence of polarized mitochondrial movements in Saccharomyces cerevisiae. Simon VR, et al. **Cell Motil Cytoskeleton** 1997;37(3):199–210

A Dictyostelium myosin I plays a crucial role in regulating the frequency of pseudopods formed on the substratum. Wessels D, et al. **Cell Motil Cytoskeleton** 1996;33(1):64–79

Bud10p directs axial cell polarization in budding yeast and resembles a transmembrane receptor. Halme A, et al. **Curr Biol** 1996 May 1;6(5):570–9

Splicing together the unfolded-protein response. Shamu CE. **Curr Biol** 1997 Feb 1;7(2):R67–70 (15 ref.)

The complex containing actin-related proteins Arp2 and Arp3 is required for the motility and integrity of yeast actin patches. Winter D, et al. **Curr Biol** 1997 Jul 1;7(7):519–29

STP1, a gene involved in pre-tRNA processing in yeast, is important for amino-acid uptake and transcription of the permease gene BAP2. Jorgensen MU, et al. **Curr Genet** 1997 Mar;31(3):241–7

Homologous recombination in the fission yeast Schizosaccharomyces pombe: different requirements for the rhp51+, rhp54+ and rad22+ genes. Muris DFR, et al. **Curr Genet** 1997 Mar;31(3):248–54

Factors affecting DNA-binding proteins and pcbC transcript levels in Penicillium chrysogenum. Vichitsoonthonkul T, et al. **Curr Genet** 1996 Nov;30(5):447–54

COPII and secretory cargo capture into transport vesicles. Kuehn MJ, et al. **Curr Opin Cell Biol** 1997 Aug;9(4):477–83 (57 ref.)

The septins: roles in cytokinesis and other processes. Longtine MS, et al. **Curr Opin Cell Biol** 1996 Feb; 8(1):106–19

Actin dynamics in vivo. Welch MD, et al. **Curr Opin Cell Biol** 1997 Feb;9(1):54–61 (55 ref.)

Analysis of cell movement and signalling during ring formation in an activated G alpha1 mutant of Dictyostelium discoideum that is defective in prestalk zone formation. Rietdorf J, et al. **Dev Biol** 1997 Jan 1;181(1):79–90

Precocious sporulation and developmental lethality in yelA null mutants of Dictyostelium. Osherov N, et al. **Dev Genet** 1997;20(4):307–19

A Dictystelium mutant with defective aggregate size determination. Brock DA, et al. **Development** 1996 Sep; 122(9):2569–78

A Ras GAP is essential for cytokinesis and spatial patterning in Dictyostelium. Lee S, et al. **Development** 1997 Mar; 124(5):983–96

A novel prespore-cell-inducing factor in Dictyostelium discoideum induces cell division of prespore cells. Oohata AA, et al. **Development** 1997 Jul;124(14):2781–7

G proteins in Ustilago maydis: transmission of multiple signals? Regenfelder E, et al. **EMBO J** 1997 Apr 15; 16(8):1934–42

The Aspergillus FlbA RGS domain protein antagonizes G protein signaling to block proliferation and allow development. Yu JH, et al. **EMBO J** 1996 Oct 1; 15(19):5184–90

Mutational analysis of the role of Rap1 in regulating cytoskeletal function in Dictyostelium. Rebstein PJ, et al. **Exp Cell Res** 1997 Mar 15;231(2):276–83

A natural motif approach to protein design: a synthetic leucine zipper peptide mimics the biological function of the platelet factor 4 protein. Butcher DJ, et al. **FEBS Lett** 1997 Jun 9;409(2):183–7

Modulation of intracellular protein degradation by SSB1-SIS1 chaperon system in yeast S. cerevisiae. Ohba M. **FEBS Lett** 1997 Jun 9;409(2):307–11

Carbon repression in Aspergilli. Ruijter GJ, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):103–14 (51 ref.)

Isolation of Aspergillus nidulans mutants that overcome brlA-induced growth arrest. Marhoul J, et al. **Fungal Genet Biol** 1996 Feb;21(1):109–17

Analysis of small nuclear RNAs in a precatalytic spliceosome. Yean SL, et al. **Gene Expr** 1996;5(6):301–13

The Schizosaccharomyces pombe mra1 gene, which is required for cell growth and mating, can suppress the mating inefficiency caused by a deficit in the Ras1 activity. Hakuno F, et al. **Genes Cells** 1996 Mar;1(3):303–15

Signalling from endoplasmic reticulum to nucleus: transcription factor with a basic-leucine zipper motif is required for the unfolded protein-response pathway. Mori K, et al. **Genes Cells** 1996 Sep;1(9):803–17

Tam1, a telomere-associated meiotic protein, functions in chromosome synapsis and crossover interference. Chua PR, et al. **Genes Dev** 1997 Jul 15;11(14):1786–800

Anaphase initiation in Saccharomyces cerevisiae is controlled by the APC-dependent degradation of the anaphase inhibitor Pds1p. Cohen-Fix O, et al. **Genes Dev** 1996 Dec 15;10(24):3081–93

The Mcs4 response regulator coordinately controls the stress-activated Wak1-Wis1-Sty1 MAP kinase pathway and fission yeast cell cycle. Shieh JC, et al. **Genes Dev** 1997 Apr 15;11(8):1008–22

The role of Sas2, an acetyltransferase homologue of Saccharomyces cerevisiae, in silencing and ORC function. Ehrenhofer-Murray AE, et al. **Genetics** 1997 Apr; 145(4):923–34

Mutations in the Saccharomyces cerevisiae type 2A protein phosphatase catalytic subunit reveal roles in cell wall integrity, actin cytoskeleton organization and mitosis. Evans DR, et al. **Genetics** 1997 Feb;145(2):227–41

Saccharomyces cerevisiae PAC2 functions with CIN1, 2 and 4 in a pathway leading to normal microtubule stability. Hoyt MA, et al. **Genetics** 1997 Jul;146(3):849–57

The Schizosaccharomyces pombe rec16 gene product regulates multiple meiotic events. Li YF, et al. **Genetics** 1997 May;146(1):57–67

Roles of replication protein-A subunits 2 and 3 in DNA replication fork movement in Saccharomyces cerevisiae. Maniar HS, et al. **Genetics** 1997 Apr;145(4):891–902

The phenylacetic acid uptake system of Aspergillus nidulans is under a creA-independent model of catabolic repression which seems to be mediated by acetyl-CoA. Fernández-Cañón JM, et al. **J Antibiot (Tokyo)** 1997 Jan; 50(1):45–52

SSU1 encodes a plasma membrane protein with a central role in a network of proteins conferring sulfite tolerance in Saccharomyces cerevisiae. Avram D, et al. **J Bacteriol** 1997 Sep;179(18):5971–4

The NH2-terminal extension of protein phosphatase PPZ1 has an essential functional role. Clotet J, et al. **J Biol Chem** 1996 Oct 18;271(42):26349–55

A novel link between REC2, a DNA recombinase, the retinoblastoma protein, and apoptosis. Fan G, et al. **J Biol Chem** 1997 Aug 1;272(31):19413–7

Gpa2p, a G-protein alpha-subunit, regulates growth and pseudohyphal development in Saccharomyces cerevisiae via a cAMP-dependent mechanism. Kübler E, et al. **J Biol Chem** 1997 Aug 15;272(33):20321–3

Adenylyl cyclase G, an osmosensor controlling germination of Dictyostelium spores. van Es S, et al. **J Biol Chem** 1996 Sep 27;271(39):23623–5

Evidence that intramolecular interactions are involved in masking the activation domain of transcriptional activator Leu3p. Wang D, et al. **J Biol Chem** 1997 Aug 1; 272(31):19383–92

Dictyostelium IQGAP-related protein specifically involved in the completion of cytokinesis. Adachi H, et al. **J Cell Biol** 1997 May 19;137(4):891–8

The refolding activity of the yeast heat shock proteins Ssa1 and Ssa2 defines their role in protein translocation. Bush GL, et al. **J Cell Biol** 1996 Dec;135(5):1229–37

Mitotic spindle positioning in Saccharomyces cerevisiae is accomplished by antagonistically acting microtubule motor proteins [see comments] Cottingham FR, et al. **J Cell Biol** 1997 Sep 8;138(5):1041–53. Comment in: J Cell Biol 1997 Sep 8;138(5):957–60.

Kinesin-related KIP3 of Saccharomyces cerevisiae is required for a distinct step in nuclear migration [see comments] DeZwaan TM, et al. **J Cell Biol** 1997 Sep 8; 138(5):1023–40. Comment in: J Cell Biol 1997 Sep 8;138(5):957–60.

Role of the ABC transporter Ste6 in cell fusion during yeast conjugation. Elia L, et al. **J Cell Biol** 1996 Nov; 135(3):741–51

Type II myosin heavy chain encoded by the myo2 gene composes the contractile ring during cytokinesis in Schizosaccharomyces pombe. Kitayama C, et al. **J Cell Biol** 1997 Jun 16;137(6):1309–19

Redox-sensitive homodimerization of Pex11p: a proposed mechanism to regulate peroxisomal division. Marshall PA, et al. **J Cell Biol** 1996 Oct;135(1):123–37

Targeting of chitin synthase 3 to polarized growth sites in yeast requires Chs5p and Myo2p. Santos B, et al. **J Cell Biol** 1997 Jan 13;136(1):95–110

The Saccharomyces cerevisiae kinesin-related motor Kar3p acts at preanaphase spindle poles to limit the number and length of cytoplasmic microtubules. Saunders W, et al. **J Cell Biol** 1997 Apr 21;137(2):417–31

The molecular chaperone Hsp78 confers compartment-specific thermotolerance to mitochondria. Schmitt M, et al. **J Cell Biol** 1996 Sep;134(6):1375–86

Pea2 protein of yeast is localized to sites of polarized growth and is required for efficient mating and bipolar budding. Valtz N, et al. **J Cell Biol** 1996 Nov;135(3):725–39

Cdc6p establishes and maintains a state of replication competence during G1 phase. Detweiler CS, et al. **J Cell Sci** 1997 Mar;110 (Pt 6):753–63

Isolation and characterization of SYS genes from yeast, multicopy suppressors of the functional loss of the transport GTPase Ypt6p. Tsukada M, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2471–81

Vam3p, a new member of syntaxin related protein, is required for vacuolar assembly in the yeast Saccharomyces cerevisiae. Wada Y, et al. **J Cell Sci** 1997 Jun;110 (Pt 11):1299–306

Function of metal-ion homeostasis in the cell division cycle, mitochondrial protein processing, sensitivity to mycobacterial infection and brain function. Supek F, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):321–30 (73 ref.)

Functional analysis of FAR1 in yeast. Valtz N, et al. **Methods Enzymol** 1997;283:350–65

Mitochondrial superoxide dismutase is essential for ethanol tolerance of Saccharomyces cerevisiae in the post-diauxic phase. Costa V, et al. **Microbiology** 1997 May;143 (Pt 5):1649–56

A role for a Rab4-like GTPase in endocytosis and in regulation of contractile vacuole structure and function in Dictyostelium discoideum. Bush J, et al. **Mol Biol Cell** 1996 Oct;7(10):1623–38

A novel a-factor-related peptide of Saccharomyces cerevisiae that exits the cell by a Ste6p-independent mechanism. Chen P, et al. **Mol Biol Cell** 1997 Jul; 8(7):1273–91

Ca(2+)/calmodulin-dependent kinase is essential for both growth and nuclear division in Aspergillus nidulans. Dayton JS, et al. **Mol Biol Cell** 1996 Oct;7(10):1511–9

Sec3p is involved in secretion and morphogenesis in Saccharomyces cerevisiae. Finger FP, et al. **Mol Biol Cell** 1997 Apr;8(4):647–62

Saccharomyces cerevisiae genes required in the absence of the CIN8-encoded spindle motor act in functionally diverse mitotic pathways. Geiser JR, et al. **Mol Biol Cell** 1997 Jun;8(6):1035–50

The ankyrin repeat-containing protein Akr1p is required for the endocytosis of yeast pheromone receptors. Givan SA, et al. **Mol Biol Cell** 1997 Jul;8(7):1317–27

The yeast actin-related protein Arp2p is required for the internalization step of endocytosis. Moreau V, et al. **Mol Biol Cell** 1997 Jul;8(7):1361–75

Fission yeast pkl1 is a kinesin-related protein involved in mitotic spindle function. Pidoux AL, et al. **Mol Biol Cell** 1996 Oct;7(10):1639–55

Mitotic spindle function in Saccharomyces cerevisiae requires a balance between different types of kinesin-related motors. Saunders W, et al. **Mol Biol Cell** 1997 Jun;8(6):1025–33

Mcs4 mitotic catastrophe suppressor regulates the fission yeast cell cycle through the Wik1-Wis1-Spc1 kinase cascade. Shiozaki K, et al. **Mol Biol Cell** 1997 Mar; 8(3):409–19

Bet1p activates the v-SNARE Bos1p. Stone S, et al. **Mol Biol Cell** 1997 Jul;8(7):1175–81

Yeast Pab1 interacts with Rna15 and participates in the control of the poly(A) tail length in vitro. Amrani N, et al. **Mol Cell Biol** 1997 Jul;17(7):3694–701

Met31p and Met32p, two related zinc finger proteins, are involved in transcriptional regulation of yeast sulfur amino acid metabolism. Blaiseau PL, et al. **Mol Cell Biol** 1997

Jul;17(7):3640–8
The yeast nucleolar protein Cbf5p is involved in rRNA biosynthesis and interacts genetically with the RNA polymerase I transcription factor RRN3. Cadwell C, et al. **Mol Cell Biol** 1997 Oct;17(10):6175–83
Rfc5, a replication factor C component, is required for regulation of Rad53 protein kinase in the yeast checkpoint pathway. Sugimoto K, et al. **Mol Cell Biol** 1997 Oct; 17(10):5905–14
Saccharomyces cerevisiae Nip7p is required for efficient 60S ribosome subunit biogenesis. Zanchin NI, et al. **Mol Cell Biol** 1997 Sep;17(9):5001–15
Integration of the multiple controls regulating the expression of the arginase gene CAR1 of Saccharomyces cerevisiae in response to differentnitrogen signals: role of Gln3p, ArgRp–Mcm1p, and Ume6p. Dubois E, et al. **Mol Gen Genet** 1997 Feb 20;253(5):568–80
A meiosis–specific protein kinase, Ime2, is required for the correct timing of DNA replication and for spore formation in yeast meiosis. Foiani M, et al. **Mol Gen Genet** 1996 Dec 13;253(3):278–88
The G protein beta subunit Gpb1 of Schizosaccharomyces pombe is a negative regulator of sexual development. Kim DU, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):20–32
Cdc20, a beta–transducin homologue, links RAD9–mediated G2/M checkpoint control to mitosis in Saccharomyces cerevisiae. Lim HH, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):138–48
PWP2, a member of the WD–repeat family of proteins, is an essential Saccharomyces cerevisiae gene involved in cell separation. Shafaatian R, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):101–14
Analysis of spontaneous and double–strand break–induced recombination in rad mutants of S. pombe. Fortunato EA, et al. **Mutat Res** 1996 Dec 2;364(3):14–60
Genomic stability. Silencing and DNA repair connect [news; comment] Jackson SP. **Nature** 1997 Aug 28; 388(6645):829–30. Comment on: Nature 1997 Aug 28;388(6645):900–3.
Repair of DNA loops involves DNA–mismatch and nucleotide–excision repair proteins. Kirkpatrick DT, et al. **Nature** 1997 Jun 26;387(6636):929–31
Cell biology. Explorers deliver tea to the pole [news; comment] Mitchell A. **Nature** 1997 Jun 26;387(6636):858. Comment on: Nature 1997 Jun 5;387(6633):561.
DNA renaturation activity of the SMC complex implicated in chromosome condensation. Sutani T, et al. **Nature** 1997 Aug 21;388(6644):798–801
Silencing factors participate in DNA repair and recombination in Saccharomyces cerevisiae [see comments] Tsukamoto Y, et al. **Nature** 1997 Aug 28;388(6645):900–3 . Comment in: Nature 1997 Aug 28;388(6645):829–30.
Phosphorylation of RNA–binding protein controls cell cycle switch from mitotic to meiotic in fission yeast. Watanabe Y, et al. **Nature** 1997 Mar 13;386(6621):187–90
Novel, activated RAS mutations alter protein–protein interactions. Dalley BK, et al. **Oncogene** 1996 Sep 19; 13(6):1209–20
Association of the Rho family small GTP–binding proteins with Rho GDP dissociation inhibitor (Rho GDI) in Saccharomyces cerevisiae. Koch G, et al. **Oncogene** 1997 Jul 24;15(4):417–22
Identification of a dominant–negative mutation in the yeast CDC25 guanine nucleotide exchange factor for Ras. Park W, et al. **Oncogene** 1997 Feb 20;14(7):831–6
Role of the casein kinase I isoform, Hrr25, and the cell cycle–regulatory transcription factor, SBF, in the transcriptional response to DNA damage in Saccharomyces cerevisiae. Ho U, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):581–6
The Dr1/DRAP1 heterodimer is a global repressor of transcription in vivo. Kim S, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):820–5
DNA strand annealing is promoted by the yeast Rad52 protein. Mortensen UH, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10729–34
A multipurpose transposon system for analyzing protein production, localization, and function in Saccharomyces cerevisiae. Ross–Macdonald P, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):190–5
The yeast two–hybrid system: forward and reverse [comment] White MA. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10001–3 (12 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10315–20. Comment on: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10321–6.
Ndj1p, a meiotic telomere protein required for normal chromosome synapsis and segregation in yeast [see comments] Conrad MN, et al. **Science** 1997 May 23; 276(5316):1252–5. Comment in: Science 1997 May 23;276(5316):1215.
A cyclophilin function in Hsp90–dependent signal transduction [see comments] Duina AA, et al. **Science** 1996 Dec 6;274(5293):1713–5. Comment in: Science 1996 Dec 6;274(5293):1613–4.
The origin recognition complex, SIR1, and the S phase requirement for silencing. Fox CA, et al. **Science** 1997 Jun 6;276(5318):1547–51
Sticky endings: separating telomeres [comment] Hawley RS. **Science** 1997 May 23;276(5316):1215. Comment on: Science 1997 May 23;276(5316):1252–6.
Expanding the eukaryote's cast of chaperones [news; comment] Pennisi E. **Science** 1996 Dec 6;274(5293):1613–4 . Comment on: Science 1996 Dec 6;274(5293):1713–5. Comment on: Science 1996 Dec 6;274(5293):1715–7. Comment on: Science 1996 Dec 6;274(5293):1718–20.
Bioinformatics and the discovery of gene function. Casari G, et al. **Trends Genet** 1996 Jul;12(7):244–5
An integrin–like protein in Candida albicans: implications for pathogenesis. Hostetter MK. **Trends Microbiol** 1996 Jun; 4(6):242–6
The AFT1 transcriptional factor is differentially required for expression of high–affinity iron uptake genes in Saccharomyces cerevisiae. Casas C, et al. **Yeast** 1997 Jun 15;13(7):621–37
Cyclins and the wiring of the yeast cell cycle. Futcher B. **Yeast** 1996 Dec;12(16):1635–46 (69 ref.)
Characterization of the rad14–2 mutant of Saccharomyces cerevisiae: implications for the recognition of UV photoproducts by the Rad14 protein. Jones GW, et al. **Yeast** 1997 Jan;13(1):31–6
Identification of ASK10 as a multicopy activator of Skn7p–dependent transcription of a HIS3 reporter gene. Page N, et al. **Yeast** 1996 Mar 15;12(3):267–72
Mechanisms of salt tolerance conferred by overexpression of the HAL1 gene in Saccharomyces cerevisiae. Rios G, et al. **Yeast** 1997 May;13(6):515–28
Yeast protein serine/threonine phosphatases: multiple roles and diverse regulation. Stark MJ. **Yeast** 1996 Dec; 12(16):1647–75 (200 ref.)
GCR1–dependent transcriptional activation of yeast retrotransposon Ty2–917. Türkel S, et al. **Yeast** 1997 Aug; 13(10):917–30
Functional conservation of cytosolic proteins required for endosomal vesicle fusion. Woodman PG, et al. **Yeast** 1996 Sep 30;12(12):1251–62
[Role of yeast global repressors, Bel2 and Tup1, in chromatin–and nucleosome–mediated transcriptional regulation] Harashima S. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1187–97 (31 ref.) **(Jpn)**
[Interaction between yeast transcription factor GAL11 and general transcription factors] Sakurai H, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1178–86 (70 ref.) **(Jpn)**

SECRETION

The TSR1 gene of Yarrowia lipolytica is involved in the signal recognition particle–dependent translocation pathway of secretory proteins. Mamoun CB, et al. **J Biol Chem** 1996 Sep 27;271(39):23895–901
Four distinct secretory pathways serve protein secretion, cell surface growth, and peroxisome biogenesis in the yeast Yarrowia lipolytica. Titorenko VI, et al. **Mol Cell Biol** 1997 Sep;17(9):5210–26

THERAPEUTIC USE

Antitumor effects of a new polysaccharide–protein complex (ATOM) prepared from Agaricus blazei (Iwade strain 101) "Himematsutake" and its mechanisms in tumor–bearing mice. Ito H, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):277–84

TOXICITY

Fungal ribotoxins: a family of naturally engineered targeted toxins? Kao R, et al. **Biochem Cell Biol** 1995 Nov–Dec; 73(11–12):1151–9 (70 ref.)
Cytotoxic activity of ribonucleolytic toxin restrictocin–based chimeric toxins targeted to epidermal growth factor receptor. Rathore D, et al. **FEBS Lett** 1997 May 5; 407(3):275–9
An overview of the safety evaluation of the Thermomyces lanuginosus xylanase enzyme (SP 628) and the Aspergillus aculeatus xylanase enzyme (SP 578). Bergman A, et al. **Food Addit Contam** 1997 May–Jun;14(4):389–98
Effect of 6–MFA, an interferon inducer obtained from fungus Aspergillus ochraceus on hepatic mixed function oxidase system in rats. Dhuley JN, et al. **Indian J Exp Biol** 1996 Oct;34(10):1010–4
[The possible carcinogenic action of a protein concentrate from Saccharomyces yeasts grown on molasses] Pliss MB, et al. **Lik Sprava** 1996 Oct–Dec;(10–12):107–11 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Three–dimensional structure of NADH–dehydrogenase from Neurospora crassa by electron microscopy and conical tilt reconstruction. Guénebaut V, et al. **J Mol Biol** 1997 Jan 31;265(4):409–18
Ca2+–loaded spherulin 3a from Physarum polycephalum adopts the prototype gamma–crystallin fold in aqueous solution. Rosinke B, et al. **J Mol Biol** 1997 Aug 29; 271(4):645–55
Prion–inducing domain 2–114 of yeast Sup35 protein transforms in vitro into amyloid–like filaments. King CY, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6618–22

FUNGAL RNA see **RNA, FUNGAL**

FUNGAL SPORES see **SPORES, FUNGAL**

FUNGAL STRUCTURAL GENES see **GENES, STRUCTURAL, FUNGAL**

FUNGAL TOXINS see **MYCOTOXINS**

FUNGAL TYPING TECHNIQUES see **MYCOLOGICAL TYPING TECHNIQUES**

FUNGAL VACCINES

ANALYSIS

Preclinical efficacy of a glucuronoxylomannan–tetanus toxoid conjugate vaccine of Cryptococcus neoformans in a murine model [published erratum appears in Vaccine 1996 Sep;14(13):1298] Devi SJ. **Vaccine** 1996 Jun;14(9):841–4 (29 ref.)

CHEMISTRY

Liposomes containing Candida albicans ribosomes as a prophylactic vaccine against disseminated candidiasis in mice. Eckstein M, et al. **Vaccine** 1997 Feb;15(2):220–4

IMMUNOLOGY

Liposomes containing Candida albicans ribosomes as a prophylactic vaccine against disseminated candidiasis in mice. Eckstein M, et al. **Vaccine** 1997 Feb;15(2):220–4

THERAPEUTIC USE

Serum therapy for cryptococcal meningitis [letter] Seaton RA. **Clin Infect Dis** 1996 Aug;23(2):416–7
Efficacy of a live attenuated Trichophyton verrucosum vaccine for control of bovine dermatophytosis. Gordon PJ, et al. **Vet Rec** 1996 Oct 19;139(16):395–6

FUNGEMIA

The clinical significance of positive blood cultures in the 1990s: a prospective comprehensive evaluation of the microbiology, epidemiology, and outcome of bacteremia and fungemia in adults. Weinstein MP, et al. **Clin Infect Dis** 1997 Apr;24(4):584–602
Increasing threat of fungemia in Japan [editorial; comment] Kohno S. **Intern Med** 1996 Sep;35(9):675–6. Comment on: Intern Med 1996 Sep;35(9):707–11.
[Mycethemia: an analysis of 56 cases] Zhang H, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):132–4 (Eng. Abstr.) **(Chi)**

BLOOD

Hospital–acquired candidaemia: experience from a developing country. al Soub H, et al. **J Hosp Infect** 1997 Feb;35(2):141–7
Role of buffy coat examination in the diagnosis of neonatal candidemia. Reddy TC, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):718–20

COMPLICATIONS

Aspergillar fungemia in an infant with hepatoblastoma. Marec–Bérard P, et al. **Clin Infect Dis** 1996 Dec; 23(6):1326–7
Fluconazole–resistant Candida parapsilosis fungemia in a patient with AIDS. Tumbarello M, et al. **Clin Infect Dis** 1996 Jan;22(1):179–80
The yeast to hyphal transition following hematogenous candidiasis induces shock and organ injury independent of circulating tumor necrosis factor–alpha. Matuschak GM, et al. **Crit Care Med** 1997 Jan;25(1):111–20
Candida endophthalmitis in non–neutropenic critically ill patients [see comments] Nolla–Salas J, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):503–6. Comment in: Eur J Clin Microbiol Infect Dis 1997 Mar;16(3):256–7.
Nosocomial Cryptococcus laurentii fungemia in a bone marrow transplant patient after prophylaxis with ketoconazole successfully treated with oral fluconazole [letter] Krcméry V Jr, et al. **Infection** 1997 Mar–Apr; 25(2):130
Septic shock: pathogenesis and treatment [see comments] Bansal T, et al. **J Assoc Physicians India** 1996 Jun; 44(6):407–14 (51 ref.). Comment in: J Assoc Physicians India 1996 Jun;44(6):371–4.
Cryptococcemia and meningococcemia in a post partum woman. Gupta S, et al. **J Assoc Physicians India** 1996 May; 44(5):339–41
Candida albicans arthritis one year after successful treatment of fungemia in a healthy infant. Swanson H, et al. **J Pediatr** 1996 Nov;129(5):688–94 (37 ref.)
Multiple hepatic hemorrhagic mycotic pseudoaneurysms treated with embolization. Tharp RW, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):876–8
Minimally differentiated acute myeloid leukemia, AML–M0, terminated in candidial fungemia [clinical conference] Okamoto S, et al. **Keio J Med** 1996 Dec;45(4):336–44
Yield of positive blood cultures in pediatric oncology patients by a new method of blood culture collection. Kaditis AG, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):615–20
Candida arthritis complicating long term total parenteral nutrition. Murphy O, et al. **Pediatr Infect Dis J** 1997 Mar; 16(3):329
Disseminated Blastoschizomyces capitatus infection in acute myeloblastic leukaemia. Report of three cases. Sanz MA, et al. **Support Care Cancer** 1996 Jul;4(4):291–3 (14 ref.)

FUNGEMIA

DIAGNOSIS

Markedly elevated serum lactate dehydrogenase levels are a clue to the diagnosis of disseminated histoplasmosis in patients with AIDS. Corcoran GR, et al. **Clin Infect Dis** 1997 May;24(5):942–4

Mycotic thoracic aneurysm due to Clostridium septicum and occult adenocarcinoma of the cecum. Montoya FJ, et al. **Clin Infect Dis** 1997 May;24(5):785, 1007

Diagnostic microbiology updates. Reller LB. **Clin Infect Dis** 1996 Jul;23(1):38–9 (10 ref.)

Update on detection of bacteremia and fungemia. Reimer LG, et al. **Clin Microbiol Rev** 1997 Jul;10(3):444–65 (218 ref.)

Fungal infections: guidelines for reporting. PHLS Mycology Committee. Evans EG, et al. **Commun Dis Rep CDR Rev** 1996 Apr 26;6(5):R75

Semiquantitative polymerase chain reaction enzyme immunoassay for diagnosis of disseminated candidiasis. Burnie JP, et al. **Eur J Clin Microbiol Infect Dis** 1997 May; 16(5):346–50

Atypical mycobacteriosis as a complication of talc pneumoconiosis. De Coster C, et al. **Eur Respir J** 1996 Aug;9(8):1757–9 (12 ref.)

Disseminated mucormycosis presenting with lower extremity weakness. von Pohle WR. **Eur Respir J** 1996 Aug; 9(8):1751–3 (10 ref.)

Disseminated cryptococcosis presenting as molluscum-like lesions as the first manifestation of AIDS. Muñoz-Pérez MA, et al. **Int J Dermatol** 1996 Sep;35(9):646–8

Detection and identification of fungal pathogens in blood by using molecular probes. Einsele H, et al. **J Clin Microbiol** 1997 Jun;35(6):1353–60

Controlled clinical laboratory comparison of BACTEC plus aerobic/F resin medium with BacT/Alert aerobic FAN medium for detection of bacteremia and fungemia. Jorgensen JH, et al. **J Clin Microbiol** 1997 Jan;35(1):53–8

Enolase antigen, mannan antigen, Cand-Tec antigen, and beta-glucan in patients with candidemia. Mitsutake K, et al. **J Clin Microbiol** 1996 Aug;34(8):1918–21

Comparison of Isolator 1.5 and BACTEC NR660 aerobic 6A blood culture systems for detection of fungemia in children. Petti CA, et al. **J Clin Microbiol** 1996 Aug; 34(8):1877–9

Rapid identification of Candida species in blood cultures by a clinically useful PCR method. Shin JH, et al. **J Clin Microbiol** 1997 Jun;35(6):1454–9

Diagnosis of vascular catheter-related bloodstream infection: a meta-analysis. Siegman-Igra Y, et al. **J Clin Microbiol** 1997 Apr;35(4):928–36

Disseminated cryptococcosis with cutaneous lesions. Mostafa WZ, et al. **J Dermatol** 1996 Mar;23(3):209–13

Listeria monocytogenes: a rare cause of pleural effusion in a patient with congestive cardiac failure. Hood S, et al. **Scott Med J** 1997 Feb;42(1):18

DRUG THERAPY

Urokinase in the treatment of bacteremia and candidemia in patients with right atrial catheters. Jones GR, et al. **Am J Infect Control** 1996 Jun;24(3):160–6

Renal tolerance with the use of intralipid-amphotericin B in low-birth-weight neonates. Friedlich PS, et al. **Am J Perinatol** 1997 Aug;14(7):377–83

Fungemia in patients with hematologic malignancies: therapeutic effects of concomitant administration of fluconazole and granulocyte-colony-stimulating factor. Niitsu N, et al. **Chemotherapy** 1996 May-Jun;42(3):215–19

Clinical resolution of Scedosporium prolificans fungemia associated with reversal of neutropenia following administration of granulocyte colony-stimulating factor. Bouza E, et al. **Clin Infect Dis** 1996 Jul;23(1):192–3 (10 ref.)

Nystatin prophylaxis [letter; comment] Dubé MP, et al. **Clin Microbiol Rev** 1997 Apr;10(2):368. Comment on: Clin Microbiol Rev 1996 Oct;9(4):499–511.

Multicenter randomized trial of fluconazole versus amphotericin B for treatment of candidemia in non-neutropenic patients. Canadian Candidemia Study Group. Phillips P, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):337–45

A randomized study comparing fluconazole with amphotericin B/5-flucytosine for the treatment of systemic Candida infections in intensive care patients. Abele-Horn M, et al. **Infection** 1996 Nov-Dec;24(6):426–32

Nosocomial Cryptococcus laurentii fungemia in a bone marrow transplant patient after prophylaxis with ketoconazole successfully treated with oral fluconazole [letter] Krcméry V Jr, et al. **Infection** 1997 Mar-Apr; 25(2):130

Fatal Trichosporon pullulans breakthrough fungemia in cancer patients: report of three patients who failed on prophylaxis with itraconazole [letter] Kunová A, et al. **Infection** 1996 May-Jun;24(3):273–4

Candidemia in non-neutropenic critically ill patients: analysis of prognostic factors and assessment of systemic antifungal therapy. Study Group of Fungal Infection in the ICU. Nolla-Salas J, et al. **Intensive Care Med** 1997 Jan; 23(1):23–30

Breakthrough fungemia due to Hansenula anomala in a leukemia patient successfully treated with amphotericin B [letter] Kunovà A, et al. **J Chemother** 1996 Feb;8(1):85–6

In situ management and molecular analysis of candidaemia related to a totally implantable vascular access in a cystic fibrosis patient. Bonacorsi SP, et al. **J Infect** 1996 Jul; 33(1):49–51

First report of Cryptococcus albidus septicaemia in an HIV patient. Loison J, et al. **J Infect** 1996 Sep;33(2):139–40

Implications of early systemic therapy on the incidence of endogenous fungal endophthalmitis. Scherer WJ, et al. **Ophthalmology** 1997 Oct;104(10):1593–8

Fluconazole vs. amphotericin B for the treatment of neonatal fungal septicemia: a prospective randomized trial. Driessen M, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1107–12

The fluconazole era: management of hematogenously disseminated candidiasis in the nonneutropenic patient. Kramer KM, et al. **Pharmacotherapy** 1997 May-Jun; 17(3):538–48 (44 ref.)

EPIDEMIOLOGY

Candida parapsilopsis fungemias in bone marrow transplant recipients: implications for azole prophylactic therapy [letter; comment] López-Jiménez J, et al. **Blood** 1997 May 1;89(9):3491–2. Comment on: Blood 1996 Jan 15;87(2):838–9.

Occurrence of yeast bloodstream infections between 1987 and 1995 in five Dutch university hospitals. Voss A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec;15(12):909–12

Candidemia in non-neutropenic critically ill patients: analysis of prognostic factors and assessment of systemic antifungal therapy. Study Group of Fungal Infection in the ICU. Nolla-Salas J, et al. **Intensive Care Med** 1997 Jan; 23(1):23–30

Eight-year surveillance of non-albicans Candida spp. in an oncology department prior to and after fluconazole had been introduced into antifungal prophylaxis. Kunova A, et al. **Microb Drug Resist** 1997 Fall;3(3):283–7

Candida parapsilosis bloodstream infections in neonatal intensive care unit patients: epidemiologic and laboratory confirmation of a common source outbreak. Welbel SF, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):998–1002

Candidemia in acute leukemia patients. Ribeiro P, et al. **Support Care Cancer** 1997 May;5(3):249–51

[Epidemiology and diagnosis of invasive fungal mold infections in immunosuppressed patients: results of a 3 year study at Leipzig University] Horn LC, et al. **Verh Dtsch Ges Pathol** 1996;80:337 **(Ger)**

[An outbreak of nosocomial candidiasis in a hematology ward] Liubimova AV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan-Feb;(1):23–6 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Fatal fungemia resulting from an infected transjugular intrahepatic portosystemic shunt stent. Schiano TD, et al. **Am J Gastroenterol** 1997 Apr;92(4):709–10 (9 ref.)

Rising incidence of Candida parapsilosis fungemia in patients with hematologic malignancies: clinical aspects, predisposing factors, and differential pathogenicity of the causative strains. Girmenia C, et al. **Clin Infect Dis** 1996 Sep;23(3):506–14

Risk factors for fungemia in children infected with human immunodeficiency virus: a case-control study. Gonzalez CE, et al. **Clin Infect Dis** 1996 Sep;23(3):515–21

Breakthrough candidemia in neutropenic patients. Nucci M, et al. **Clin Infect Dis** 1997 Feb;24(2):275–6

Bloodstream infections in liver transplant recipients receiving tacrolimus. Singh N, et al. **Clin Transplant** 1997 Aug; 11(4):275–81

Juvenile diabetes mellitus masquerading as disseminated candidiasis [letter] Krishnan J, et al. **Indian Pediatr** 1997 Mar;34(3):257–8

Fusarium solani fungemia in a bone marrow transplant recipient. Fang CT, et al. **J Formos Med Assoc** 1997 Feb; 96(2):129–33

Fungaemia due to Fusarium spp. in cancer patients. Krcmery V Jr, et al. **J Hosp Infect** 1997 Jul;36(3):223–8 (19 ref.)

First report of catheter associated Trichosporon pullulans breakthrough fungaemia in a cancer patient [letter] Kunová A, et al. **J Infect** 1996 Jan;32(1):70–1

Disseminated infection with Trichosporon asahii. Itoh T, et al. **Mycoses** 1996 May-Jun;39(5-6):195–9

Relevance of the catheter hub as a portal for microorganisms causing catheter-related bloodstream infections. Salzman MB, et al. **Nutrition** 1997 Apr;13(4 Suppl):15S–17S (23 ref.)

Self-inflicted bacteraemia and fungaemia in Vietnamese migrants. Fung KS, et al. **Scand J Infect Dis** 1996; 28(1):83–5

Fungemia in cancer patients undergoing chemotherapy versus surgery: risk factors, etiology and outcome. Kralovicova K, et al. **Scand J Infect Dis** 1997;29(3):301–4

[Peracute, fatal Aspergillus sepsis as a complication of systemic lupus erythematosus and rheumatic diseases] Nenoff P, et al. **Verh Dtsch Ges Pathol** 1996;80:332 **(Ger)**

[Hansenula anomala fungemia in a patient undergoing IVH-treatment with ascending colon carcinoma] Sumitomo M, et al. **Kansenshogaku Zasshi** 1996 Feb; 70(2):198–205 (27 ref.) (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Incidence and risk of developing fungal prosthetic valve endocarditis after nosocomial candidemia. Nasser RM, et al. **Am J Med** 1997 Jul;103(1):25–32

The epidemiology of hematogenous candidiasis caused by different Candida species [see comments] Abi-Said D, et al. **Clin Infect Dis** 1997 Jun;24(6):1122–8. Comment in: Clin Infect Dis 1997 Jun;24(6):1129–30.

The yeast to hyphal transition following hematogenous candidiasis induces shock and organ injury independent of circulating tumor necrosis factor-alpha. Matuschak GM, et al. **Crit Care Med** 1997 Jan;25(1):111–20

Molecular typing for investigating an outbreak of Candida krusei. Noskin GA, et al. **Diagn Microbiol Infect Dis** 1996 Nov-Dec;26(3-4):117–23

Antifungal susceptibility pattern of non-albicans Candida species & distribution of species isolated from Candidaemia cases over a 5 year period. Chakrabarti A, et al. **Indian J Med Res** 1996 Aug;104:171–6

Changes in clinical features of fungemia in a Japanese University Hospital over a 12-year period [see comments] Mizushima Y, et al. **Intern Med** 1996 Sep;35(9):707–11. Comment in: Intern Med 1996 Sep;35(9):675–6.

Assessment of detection of Candida mannoproteinemia as a method to differentiate central venous catheter-related candidemia from invasive disease. Girmenia C, et al. **J Clin Microbiol** 1997 Apr;35(4):903–6

A single strain of Candida albicans associated with separate episodes of fungemia and meningitis. Porter SD, et al. **J Clin Microbiol** 1996 Jul;34(7):1813–4

Controlled comparison of bioMérieux VITAL and BACTEC NR-660 systems for detection of bacteremia and fungemia in pediatric patients. Zaidi AK, et al. **J Clin Microbiol** 1997 Aug;35(8):2007–12

Changing pattern of Candida species in a bone marrow transplant patient. Fotedar R, et al. **J Infect** 1996 May; 32(3):243–5

[Clinical aspects and prognosis of candidemia, a 6-year retrospective study] Bregenzer T, et al. **Schweiz Med Wochenschr** 1996 Oct 26;126(43):1829–33 (Eng. Abstr.) **(Ger)**

[Disseminated candidiasis and endophthalmitis caused by Candida tropicalis (letter)] Gratacós J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):451 **(Spa)**

MORTALITY

Mortality associated with systemic candidiasis in children. Pacheco-Ríos A, et al. **Arch Med Res** 1997 Summer; 28(2):229–32

Microbiological factors influencing the outcome of nosocomial bloodstream infections: a 6-year validated, population-based model. Pittet D, et al. **Clin Infect Dis** 1997 Jun;24(6):1068–78

Candidemia in intensive care unit patients: risk factors for mortality. Voss A, et al. **Infection** 1997 Jan-Feb;25(1):8–11

PREVENTION & CONTROL

Breakthrough bacteraemic and fungaemic episodes during antimicrobial prophylaxis and therapy in cancer patients: analysis of risk factors, etiology, therapy and outcome in 123 episodes. Spánik S, et al. **Bratisl Lek Listy** 1996 Nov; 97(11):652–9

Tolerance and efficacy of Amphotericin B inhalations for prevention of invasive pulmonary aspergillosis in haematological patients. Erjavec Z, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):364–8

Bacteremia and fungemia occurring during antimicrobial prophylaxis with ofloxacin in cancer patients: risk factors, etiology and outcome. Spanik S, et al. **J Chemother** 1996 Oct;8(5):387–93

Fatal Candida tropicalis fungaemia in a leukaemic patient receiving fluconazole prophylaxis. Barnes AJ, et al. **J Infect** 1996 Jul;33(1):43–5

THERAPY

Granulocyte colony-stimulating factor-primed leukocyte transfusions in candida tropicalis fungemia in neutropenic patients. Di Mario A, et al. **Haematologica** 1997 May-Jun; 82(3):362–3

Management of catheter-related bacteremia and fungemia in patients on total parenteral nutrition. Widmer AF. **Nutrition** 1997 Apr;13(4 Suppl):18S–25S (84 ref.)

FUNGI

consider also terms at MYCO-

see related

ANTIFUNGAL AGENTS
FUNGICIDES, INDUSTRIAL

Exposure to airborne microbes during the repair of moldy buildings. Rautiala S, et al. **Am Ind Hyg Assoc J** 1996 Mar; 57(3):279–84

Mould-devouring mites differ in guanine excretion from dust-eating Acari, a possible error source in mite allergen exposure studies. Kort HS, et al. **Clin Exp Allergy** 1997 Aug;27(8):921–5

Identification of pathogenic fungi. **Commun Dis Rep CDR Wkly** 1996 Jul 19;6(29):247

Airborne eczema due to mould allergy. Kanny G, et al. **Contact Dermatitis** 1996 Dec;35(6):378

Fungi fighting back [news] **Environ Health Perspect** 1997 Jan;105(1):26–7

Home dampness, moulds and their influence on respiratory

infections and symptoms in adults in Finland. Pirhonen I, et al. **Eur Respir J** 1996 Dec;9(12):2618–22

Fungicidal and insect controlling properties of Proteus strain RRLJ 16, isolated from tea, Camellia sinensis (L) O Kuntze, plantations. Bezbaruah B, et al. **Indian J Exp Biol** 1996 Jul;34(7):706–9

Review of quantitative standards and guidelines for fungi in indoor air. Rao CY, et al. **J Air Waste Manag Assoc** 1996 Sep;46(9):899–908 (76 ref.)

Effect of fungal biomass in moldy alfalfa hay on preference by dairy calves with no previous exposure to moldy feeds. Undi M, et al. **J Dairy Sci** 1996 Jul;79(7):1250–4

Fungi in biowaste and compost—medical–mycological aspects and proposals [editorial] Staib F. **Zentralbl Bakteriol** 1996 Sep;285(1):1–4

[Allergic alveolitis caused by exposure to molds in relation with damp housing] Kerätär R, et al. **Duodecim** 1995; 111(11):1033–8 **(Fin)**

[Effect of moldy grass on intraluminal fermentation and thiamine metabolism in cattle (in vitro)] Höltershinken M, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jan; 104(1):17–22 (Eng. Abstr.) **(Ger)**

[A review of epidemiologic studies on the health effects of indoor environments] Nakai S. **Nippon Koshu Eisei Zasshi** 1996 Mar;43(3):183–95 (52 ref.) (Eng. Abstr.) **(Jpn)**

[Fungi and biodiversity: international incentives] Hawksworth DL. **Microbiologia** 1997 Jun;13(2):221–6 (31 ref.) (Eng. Abstr.) **(Spa)**

CHEMISTRY

Biologically active fungal metabolites. Pearce C. **Adv Appl Microbiol** 1997;44:1–80 (200 ref.)

Phosphatidylinositol–3–kinase pathway is stimulated by fungal lipid containing cocoa butter equivalents (CBE) in FMet–Leu–Phe (FMLP)– and phorbolester (PMA)–challenged human neutrophils. Roux MP, et al. **Adv Exp Med Biol** 1996;416:349–53

Hydrophobins: proteins that change the nature of the fungal surface. Wessels JG. **Adv Microb Physiol** 1997;38:1–45 (185 ref.)

The use of ergosterol to measure exposure to fungal propagules in indoor air. Miller JD, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):39–43

Oreganic acid, a potent inhibitor of ras farnesyl–protein transferase. Silverman KC, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):478–81

Structural characterization of extracellular polysaccharides produced by fungi from the genus Pleurotus. Gutiérrez A, et al. **Carbohydr Res** 1996 Feb 7;281(1):143–54

Correlation between immunological activity, molar mass, and molecular structure of different (1–>3)–beta–D–glucans. Kulicke WM, et al. **Carbohydr Res** 1997 Jan 2;297(2):135–43

Oncogene– and tumor–suppressor gene–related proteins in plants and fungi. Loidl A, et al. **Crit Rev Oncog** 1996; 7(1–2):49–64 (93 ref.)

Ciliostatic effect of fungi on the respiratory tract ciliary movement of one–day–old chickens in vitro. Piecková E, et al. **Folia Microbiol (Praha)** 1996;41(6):517–20

Lipids and ultrastructure of Thraustochytrium sp. ATCC 26185. Weete JD, et al. **Lipids** 1997 Aug;32(8):839–45

Protein extraction from fungi. Bridge P. **Methods Mol Biol** 1996;59:39–48

Mold spectrum of four cereal brands of the German crop 1995. Weidenbörner M, et al. **Nahrung** 1997 Jun; 41(3):139–41

CLASSIFICATION

Some medically important fungi and their common synonyms and obsolete names. McGinnis MR, et al. **Clin Infect Dis** 1997 Jul;25(1):15–7

Nail infections. Midgley G, et al. **Dermatol Clin** 1996 Jan; 14(1):41–49 (25 ref.)

Incidence and detection of thermotolerant and thermophilic fungi from maize with particular reference to Thermoascus species. Wareing PW. **Int J Food Microbiol** 1997 Apr 1; 35(2):137–45

CP–225,917 and CP–263,114, novel Ras farnesylation inhibitors from an unidentified fungus. I. Taxonomy, fermentation, isolation, and biochemical properties. Dabrah TT, et al. **J Antibiot (Tokyo)** 1997 Jan;50(1):1–7

Risk assessment of fungi reported from humans and animals. de Hoog GS. **Mycoses** 1996 Nov–Dec;39(11–12):407–17 (28 ref.)

A novel clade of protistan parasites near the animal–fungal divergence. Ragan MA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11907–12

Aquatic fungi of the Narew River and its tributaries in the stretch from Siemianówka to Doktorce. Czeczuga B. **Rocz Akad Med Bialymst** 1996;41(2):245–57

[Changes in the taxonomy and nomenclature of pathogenic microscopic fungi] Otčenášek M, et al. **Epidemiol Mikrobiol Imunol** 1996 Dec;45(4):158–62 (Eng. Abstr.) **(Cze)**

[Comparative evaluation of methods of intracellular ATP extraction from different types of microorganisms for bioluminescent determinationof microbial cells] Romanova NA, et al. **Prikl Biokhim Mikrobiol** 1997 May–Jun; 33(3):344–9 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Hydrophobins: proteins that change the nature of the fungal surface. Wessels JG. **Adv Microb Physiol** 1997;38:1–45 (185 ref.)

A novel fluorochrome for the microscopic observation of microbial morphology in wet mounts. Chan EC, et al. **Can J Microbiol** 1996 Aug;42(8):875–9

Fluorescent brighteners: novel stains for the flow cytometric analysis of microorganisms. Davey HM, et al. **Cytometry** 1997 Aug 1;28(4):311–5

Adhesion to silicone rubber of yeasts and bacteria isolated from voice prostheses: influence of salivary conditioning films. Busscher HJ, et al. **J Biomed Mater Res** 1997 Feb; 34(2):201–9

A new prion controls fungal cell fusion incompatibility. Wickner RB. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10012–4 (21 ref.)

DRUG EFFECTS

Antifungal drugs and resistance. Graybill JR. **Adv Exp Med Biol** 1995;390:217–34 (98 ref.)

Cinnamon bark oil, a potent fungitoxicant against fungi causing respiratory tract mycoses. Singh HB, et al. **Allergy** 1995 Dec;50(12):995–9

In vitro antifungal activity of pneumocandin L–743,872 against a variety of clinically important molds. Del Poeta M, et al. **Antimicrob Agents Chemother** 1997 Aug; 41(8):1835–6

Antifungal agents: chemotherapeutic targets and immunologic strategies. Georgopapadakou NH, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):279–91 (300 ref.)

In vitro and in vivo antifungal activities of ER–30346, a novel oral triazole with a broad antifungal spectrum. Hata K, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2237–42

In vitro evaluation of voriconazole against some clinically important fungi. McGinnis MR, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1832–4

Comparison study of broth macrodilution and microdilution antifungal susceptibility tests for the filamentous fungi. Pujol I, et al. **Antimicrob Agents Chemother** 1996 Sep; 40(9):2106–10

In vitro studies of activity of voriconazole (UK–109,496), a new triazole antifungal agent, against emerging and less–common mold pathogens. Radford SA, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):841–3

In vitro antifungal and fungicidal activities and erythrocyte toxicities of cyclic lipodepsinonapeptides produced by Pseudomonas syringae pv. syringae. Sorensen KN, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2710–3

In vitro activity of a new semisynthetic echinocandin, LY–303366, against systemic isolates of Candida species, Cryptococcus neoformans, Blastomyces dermatitidis, and Aspergillus species. Zhanel GG, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):863–5

A mutation in the 14 alpha–demethylase gene of Uncinula necator that correlates with resistance to a sterol biosynthesis inhibitor. Délye C, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2966–70

Synthesis and antifungal activities of myristic acid analogs. Parang K, et al. **Arch Pharm (Weinheim)** 1996 Nov; 329(11):475–82

Synthesis of ethanone derived from 2–benzoxazolinones and their antimicrobial activities. Erol DD, et al. **Arzneimittelforschung** 1996 Feb;46(2):205–6

Adaptation mechanisms of microorganisms to the toxic effects of organic solvents on membranes. Weber FJ, et al. **Biochim Biophys Acta** 1996 Oct 29;1286(3):225–45 (214 ref.)

Comparative fungicidal activity of a new quaternary ammonium salt, N–alkyl–N–2–hydroxyethyl–N,N–dimethylammonium butyl phosphate and commonly used disinfectants. Ohta S, et al. **Biol Pharm Bull** 1996 Feb;19(2):308–10

Aluminum toxicity and nutrient utilization in the mycorrhizal fungus Hebeloma mesophacus. Kong F, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):125–31

The interactive effect of some molluscicides on the inermediate host of human bilharziasis and their associated zoosporic fungi in the river Nile, Egypt. Badran RA. **Bull Soc Pathol Exot** 1996;89(3):227–31

Clinical evaluation of a dried commercially–prepared microdilution panel for antifungal susceptibility testing. Messer SA, et al. **Diagn Microbiol Infect Dis** 1996 Jun; 25(2):77–81

Synthesis and antimicrobial activities of 4–purpuromycin derivatives. Trani A, et al. **Farmaco** 1996 Jul;51(7):503–12

Laboratory evaluation of sensitivity of three keratinophilic fungi to some vicolides. Rai MK, et al. **Hindustan Antibiot Bull** 1995 Feb–Nov;37(1–4):48–50

Effect of pH and buffer system on the in–vitro activity of five antifungals against yeasts. Gadea I, et al. **J Antimicrob Chemother** 1997 Apr;39(4):453–9

The in–vitro activity of an antifungal antibiotic benanomicin A in comparison with amphotericin B. Watanabe M, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1073–7

Multicenter evaluation of proposed standardized procedure for antifungal susceptibility testing of filamentous fungi. Espinel–Ingroff A, et al. **J Clin Microbiol** 1997 Jan; 35(1):139–43

Susceptibility testing of fungi: current status of correlation of in vitro data with clinical outcome. Ghannoum MA, et al. **J Clin Microbiol** 1996 Mar;34(3):489–95 (96 ref.)

Fluconazole and amphotericin B antifungal susceptibility testing by National Committee for Clinical Laboratory Standards broth macrodilution method compared with E–test and semiautomated broth microdilution test [letter; comment] Rodríguez–Tudela JL, et al. **J Clin Microbiol** 1997 Jan;35(1):336–7. Comment on: J Clin Microbiol 1996 Apr;34(4):842–7.

Brefeldin A effects in plant and fungal cells: something new about vesicle trafficking? Satiat–Jeunemaitre B, et al. **J Microsc** 1996 Feb;181 (Pt 2):162–77 (75 ref.)

Bioactive amides from Glycosmis species. Greger H, et al. **J Nat Prod** 1996 Dec;59(12):1163–8

In vitro antifungal properties of mouthrinses containing antimicrobial agents. Giuliana G, et al. **J Periodontol** 1997 Aug;68(8):729–33

Investigators seeking new ways to stem rising tide of resistant fungi [news] Stephenson J. **JAMA** 1997 Jan 1;277(1):5–6

Influence of the herbicide bentazon on soil microbial community. Allievi L, et al. **Microbiol Res** 1996 Mar; 151(1):105–11

Chemoattraction of anaerobic ruminal fungi zoospores to selected phenolic acids. Wubah DA, et al. **Microbiol Res** 1996 Aug;151(3):257–62

Antibacterial and antifungal activity of aromatic constituents of essential oils. Pattnaik S, et al. **Microbios** 1997; 89(358):39–46

Inactivation of yeast and filamentous fungi by the lactoperoxidase–hydrogen peroxide–thiocyanate–system. Popper L, et al. **Nahrung** 1997 Feb;41(1):29–33

Synthesis and antifungal activity of some imidazo, pyrazino and v–triazoloquinoxalines. Abd el–Samii ZK, et al. **Pharmazie** 1997 Aug;52(8):581–5

Antibacterial and antifungal compounds from Kigelia pinnata [letter] Binutu OA, et al. **Planta Med** 1996 Aug;62(4):352–3

Pulvinatal, a novel bioactive metabolite from the basidiomycete Nidularia pulvinata (Schw.) Fr. Becker U, et al. **Z Naturforsch [C]** 1997 May–Jun;52(5–6):313–8

Xylaramide, a new antifungal compound, and other secondary metabolites from Xylaria longipes. Schneider G, et al. **Z Naturforsch [C]** 1996 Nov–Dec;51(11–12):802–6

Factors affecting the results of a broth microdilution antifungal susceptibility testing in vitro. Buchta V, et al. **Zentralbl Bakteriol** 1996 Mar;283(3):375–90

[A new problem: multiresistant fungi (news)] Wehr A. **Dtsch Med Wochenschr** 1997 Mar 14;122(11):A9 **(Ger)**

[Susceptibility testing of fluconazole: evaluation of a multicenter study of the working group "Clinical Mycology" of the German Speaking Mycological Society] Schmalreck AF. **Mycoses** 1996;39 Suppl 2:1–11 (Eng. Abstr.) **(Ger)**

[In vitro antifungal activity of omoconazole nitrate, a novel imidazone antimycotic drug, against clinical isolates from patients with cutaneous mycosis] Uchida K, et al. **Jpn J Antibiot** 1996 Aug;49(8):818–23 (Eng. Abstr.) **(Jpn)**

[Antifungal resistance in opportunistic pathogenic fungi (I). Polyenes and fluorocytosine] Martínez–Suárez JV, et al. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):384–9 (43 ref.) **(Spa)**

[Antifungal resistance in opportunistic pathogenic fungi (II). Imidazoles and triazoles] Martínez–Suárez JV, et al. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):490–8 (79 ref.) **(Spa)**

[The resistance of opportunistic fungi to antifungals] Rodríguez Tudela JL. **Rev Clin Esp** 1997 Apr;197 Suppl 1:67–74 (63 ref.) **(Spa)**

ENZYMOLOGY

Investigation of the carbon– and sulfur–oxidizing capabilities of microorganisms by active–site modeling. Holland HL. **Adv Appl Microbiol** 1997;44:125–65 (90 ref.)

Fluorescence decay of tryptophans in serine proteinases from microorganisms: relation to X–ray models. Genov N, et al. **Adv Exp Med Biol** 1996;379:141–5

Cloning and expression of the gene encoding a novel proteinase from Tritirachium album limber. Samal B, et al. **Adv Exp Med Biol** 1996;379:95–104

Thiol template peptide synthesis systems in bacteria and fungi. Zocher R, et al. **Adv Microb Physiol** 1997;38:85–131 (120 ref.)

Effects of mold proteases on the biological activity of allergenic pollen extracts. Rosenbaum MR, et al. **Am J Vet Res** 1996 Oct;57(10):1447–52

Microbial D–amino acid oxidases (EC .4.3.3). Fischer L, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:683–8

Microbial hydrolysis of polysaccharides. Warren RA. **Annu Rev Microbiol** 1996;50:183–212 (175 ref.)

The role of the cellulolytic high molecular mass (HMM) complex of the anaerobic fungus Piromyces sp. strain E2 in the hydrolysis of microcrystalline cellulose. Dijkerman R, et al. **Arch Microbiol** 1997 Feb–Mar;167(2–3):137–42

The anaerobic fungus Piromyces sp. strain E2: nitrogen requirement and enzymes involved in primary nitrogen metabolism. Dijkerman R, et al. **Arch Microbiol** 1996 Dec; 166(6):399–404

Microbial lipases: structures, function and industrial applications. Rogalska E, et al. **Biochem Soc Trans** 1997 Feb;25(1):161–4 (34 ref.)

Biochemical and molecular characterization of a manganese

peroxidase isoenzyme from Pleurotus ostreatus. Sarkar S, et al. **Biochim Biophys Acta** 1997 Apr 25;1339(1):23–30

Two isozymes of P450nor of Cylindrocarpon tonkinense: molecular cloning of the cDNAs and genes, expressions in the yeast, and the putative NAD(P)H–binding site. Kudo T, et al. **Biochimie** 1996;78(8–9):792–9

Xylanolytic enzymes from fungi and bacteria. Sunna A, et al. **Crit Rev Biotechnol** 1997;17(1):39–67 (187 ref.)

Microbial beta–amylases: biosynthesis, characteristics, and industrial applications. Ray RR, et al. **Crit Rev Microbiol** 1996;22(3):181–99 (102 ref.)

Carbon regulation of the cuticle–degrading enzyme PR1 from Metarhizium anisopliae may involve a trans–acting DNA–binding protein CRR1, a functional equivalent of the Aspergillus nidulans CREA protein. Screen S, et al. **Curr Genet** 1997 Jun;31(6):511–8

Phenolic substrates for fluorometric detection of laccase activity. Lonergan G, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):485–90

Purification and characteristics of cytosolic chitinase from Piromyces communis OTS1. Sakurada M, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):75–8

Expression cloning of fungal enzyme genes; a novel approach for efficient isolation of enzyme genes of industrial relevance. Dalbøge H. **FEMS Microbiol Rev** 1997 Aug; 21(1):29–42 (21 ref.)

Sequencing of a 1,3–1,4–beta–D–glucanase (lichenase) from the anaerobic fungus Orpinomyces strain PC–2: properties of the enzyme expressed in Escherichia coli and evidence that the gene has a bacterial origin. Chen H, et al. **J Bacteriol** 1997 Oct;179(19):6028–34

Lipopeptide inhibitors of fungal glucan synthase. Kurtz MB, et al. **J Med Vet Mycol** 1997 Mar–Apr;35(2):79–86 (52 ref.)

Role of microbial proteases in pathogenesis. Maeda H. **Microbiol Immunol** 1996;40(10):685–99 (81 ref.)

The properties and localization of Saprolegnia monoica chitin synthase differ from those of other fungi. Leal–Morales CA, et al. **Microbiology** 1997 Jul;143 (Pt 7):2473–83

Adaptation of proteases and carbohydrates of saprophytic, phytopathogenic and entomopathogenic fungi to the requirements of their ecological niches. St Leger RJ, et al. **Microbiology** 1997 Jun;143 (Pt 6):1983–92

scsB, a cDNA encoding the hydrogenosomal beta subunit of succinyl–CoA synthetase from the anaerobic fungus Neocallimastix frontalis. Brondijk TH, et al. **Mol Gen Genet** 1996 Dec 13;253(3):315–23

A mitochondrial–like targeting signal on the hydrogenosomal malic enzyme from the anaerobic fungus Neocallimastix frontalis: support for the hypothesis that hydrogenosomes are modified mitochondria. van der Giezen M, et al. **Mol Microbiol** 1997 Jan;23(1):11–21

(–)–Usnic acid and its derivatives. Their inhibition of fungal growth and enzyme activity. Broksa B, et al. **Pharmazie** 1996 Mar;51(3):195–6

Crystallization and preliminary x–ray diffraction study of 1 ,3,8–trihydroxynaphthalene reductase from Magnaporthe grisea. Andersson A, et al. **Proteins** 1996 Apr;24(4):525–7

Microbial lipases: production and applications. Ghosh PK, et al. **Sci Prog** 1996;79 (Pt 2):119–57 (35 ref.)

Phylogenetic relationships of fungal cytochromes c. Janbon G, et al. **Yeast** 1997 Aug;13(10):985–90

GENETICS

Towards a unified evolutionary genetics of microorganisms. Tibayrenc M. **Annu Rev Microbiol** 1996;50:401–29 (75 ref.)

Distinction of species in Aureobasidium and related genera by PCR–ribotyping. Yurlova NA, et al. **Antonie Van Leeuwenhoek** 1996 May;69(4):323–9

A mutation in the 14 alpha–demethylase gene of Uncinula necator that correlates with resistance to a sterol biosynthesis inhibitor. Délye C, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2966–70

An endoglucanase from the anaerobic fungus Orpinomyces joyonii: characterization of the gene and its product. Liu JH, et al. **Can J Microbiol** 1997 May;43(5):477–85

Whither microbiology? Phylogenetic trees. Woese CR. **Curr Biol** 1996 Sep 1;6(9):1060–3 (10 ref.)

Molecular characterization of xyn3, a member of the endoxylanase multigene family of the rumen anaerobic fungus Neocallimastix frontalis. Durand R, et al. **Curr Genet** 1996 Dec;30(6):531–40

Transient expression of the beta–glucuronidase gene after biolistic transformation of the anaerobic fungus Neocallimastix frontalis. Durand R, et al. **Curr Genet** 1997 Feb;31(2):158–61

The isoprenoid pathway: cloning and characterization of fungal FPPS genes. Homann V, et al. **Curr Genet** 1996 Aug;30(3):232–9

Organisation and molecular analysis of repeated DNA sequences in the rice blast fungus Magnaporthe grisea. Kachroo P, et al. **Curr Genet** 1997 Apr;31(4):361–9

Identification of genes encoding for peptide synthetases in the gram–negative bacterium Lysobacter sp. ATCC 53042 and the fungus Cylindrotrichum oligospermum. Bernhard F, et al. **DNA Seq** 1996;6(6):319–30

Sequence signatures from DNA amplification fingerprints reveal fine population structure of the dogwood pathogen Discula destructiva. Caetano–Anollés G, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):377–83

Inheritance of dsRNAs in the rice blast fungus, Magnaporthe grisea. Chun SJ, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):159–62

Cloning heterologous genes: problems and approaches. Agnan J, et al. **Fungal Genet Biol** 1997 Jun;21(3):292–301 (61 ref.)

From genes to genomes: sequencing of filamentous fungal genomes. Hamer L. **Fungal Genet Biol** 1996 Feb;21(1):8–10

Metabolic pathway gene clusters in filamentous fungi. Keller NP, et al. **Fungal Genet Biol** 1996 Feb;21(1):17–29 (93 ref.)

Evolution of a fungal regulatory gene family: the Zn(II)2Cys6 binuclear cluster DNA binding motif. Todd RB, et al. **Fungal Genet Biol** 1997 Jun;21(3):388–405 (159 ref.)

Cloning and sequence analysis of the eburicol 14alpha–demethylase gene of the obligate biotrophic grape powdery mildew fungus. Délye C, et al. **Gene** 1997 Aug 11;195(1):29–33

Role of transposable elements in age–related genomic instability. Nikitin AG, et al. **Genet Res** 1997 Jun; 69(3):183–95 (173 ref.)

Mitochondrial intronic open reading frames in Podospora: mobility and consecutive exonic sequence variations. Sellem CH, et al. **Genetics** 1996 Jun;143(2):777–88

Structure and mapping of the human lanosterol 14alpha–demethylase gene (CYP51) encoding the cytochrome P450 involved in cholesterol biosynthesis; comparison of exon/intron organization with other mammalian and fungal CYP genes. Rozman D, et al. **Genomics** 1996 Dec 15;38(3):371–81

Chromosomal localization of genes through pulsed–field gel electrophoresis techniques. Bignell GR, et al. **Methods Mol Biol** 1996;53:79–88 (11 ref.)

Genetic regulation of nitrogen metabolism in the fungi. Marzluf GA. **Microbiol Mol Biol Rev** 1997 Mar;61(1):17–32 (129 ref.)

Meeting report. The filaments that bind us. Caddick M, et al. **Microbiology** 1996 Feb;142 (Pt 2):213–5

beta–Tubulin genes and the basis for benzimidazole sensitivity of the opportunistic fungus Cryptococcus neoformans. Cruz MC, et al. **Microbiology** 1997 Jun;143 (Pt 6):2003–8

Three Neocallimastix patriciarum esterases associated with the degradation of complex polysaccharides are members of a new family of hydrolases. Dalrymple BP, et al. **Microbiology** 1997 Aug;143 (Pt 8):2605–14

Deep–level diagnostic value of the rDNA–ITS region. Hershkovitz MA, et al. **Mol Biol Evol** 1996 Nov; 13(9):1276–95

Amplified fragment length polymorphism (AFLP) fingerprinting of symbiotic fungi cultured by the fungus–growing ant Cyphomyrmex minutus. Mueller UG, et al. **Mol Ecol** 1996 Feb;5(1):119–22

Human pathogeneic fungi and their close nonpathogenic relatives. Bowman BH, et al. **Mol Phylogenet Evol** 1996 Aug;6(1):89–96

Pan–Asian spread of single fungal clone results in large scale fish kills. Lilley JH, et al. **Vet Rec** 1997 Jun 21; 140(25):653–4

GROWTH & DEVELOPMENT

Assessment of indoor climate in an apartment by use of a fungal index. Abe K, et al. **Appl Environ Microbiol** 1996 Mar;62(3):959–63

Physiological and biochemical characterization of Trichoderma harzianum, a biological control agent against soilborne fungal plant pathogens. Grondona I, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3189–98

Quantification of ergosterol and 3–hydroxy fatty acids in settled house dust by gas chromatography–mass spectrometry: comparison with fungal culture and determination of endotoxin by a Limulus amebocyte lysate assay. Saraf A, et al. **Appl Environ Microbiol** 1997 Jul; 63(7):2554–9

Fabrication of an autoclavable one–way valve for venting fermentation gases. Skory CD, et al. **Biotechniques** 1997 Jan;22(1):82

Rejection criteria for endotracheal aspirates in neonates. Clinical impact. Rand KH. **Diagn Microbiol Infect Dis** 1997 Mar;27(3):55–61

MAP kinase and cAMP signaling regulate infection structure formation and pathogenic growth in the rice blast fungus Magnaporthe grisea. Xu JR, et al. **Genes Dev** 1996 Nov 1;10(21):2696–706

Two–day hydrophobic grid membrane filter method for yeast and mold enumeration in foods using YM–11 agar: collaborative study. Entis P. **J AOAC Int** 1996 Sep–Oct; 79(5):1069–82

Thin agar film for enhanced fungal growth and microscopic viewing in a new sealable fungal culture case. Hill DR. **J Clin Microbiol** 1996 Sep;34(9):2140–2

Duration of incubation of fungal cultures. Morris AJ, et al. **J Clin Microbiol** 1996 Jun;34(6):1583–5

Strains of the genus Serratia as beneficial rhizobacteria of oilseed rape with antifungal properties. Kalbe C, et al. **Microbiol Res** 1996 Dec;151(4):433–9

Effect of medicating ingredients and other additives on microflora present on swine and chicken feeds from a Manitoba mill. Mills JT, et al. **Mycopathologia** 1996; 135(1):21–7

Further studies on Egyptian soil fungi: succession of sugar and osmophilic fungi in soil amended with five organic substrates. Shaban GM. **Mycopathologia** 1996;136(1):33–40

(–)–Usnic acid and its derivatives. Their inhibition of fungal growth and enzyme activity. Broksa B, et al. **Pharmazie** 1996 Mar;51(3):195–6

Microbial growth inside saline–filled breast implants. Young VL, et al. **Plast Reconstr Surg** 1997 Jul;100(1):182–96

Is there an increase of health risks due to the impact of environmental pollution on outdoor microfungal growth? [editorial] Marfenina OE. **Zentralbl Bakteriol** 1996 Sep; 285(1):5–10 (15 ref.)

IMMUNOLOGY

Fungal allergens from important allergenic fungi imperfecti. Cruz A, et al. **Allergol Immunopathol (Madr)** 1997 May–Jun;25(3):153–8 (25 ref.)

Fungal anti–A agglutinins with different affinities for subgroups A1 and A2 red cells. Ying R, et al. **Exp Clin Immunogenet** 1995;12(4):232–7

Antibodies, killer toxins and antifungal immunoprotection: a lesson from nature? Cassone A, et al. **Immunol Today** 1997 Apr;18(4):164–9 (31 ref.)

Enolases are highly conserved fungal allergens. Breitenbach M, et al. **Int Arch Allergy Immunol** 1997 May–Jul; 113(1–3):114–7

Domestic fungal viable propagules and sensitization in children with IgE mediated allergic diseases. Dill I, et al. **Pediatr Allergy Immunol** 1996 Aug;7(3):151–5

[Role of fungi in pathogenesis of adulthood bronchial asthma] Akiyama K. **Jpn J Antibiot** 1997 Jan;50(1):71–4; discussion 75–6 **(Jpn)**

ISOLATION & PURIFICATION

Cerebrospinal fluid broth culture isolates: their significance for antibiotic treatment. Sturgis CD, et al. **Am J Clin Pathol** 1997 Aug;108(2):217–21

Health risk assessment of fungi in home environments. Verhoeff AP, et al. **Ann Allergy Asthma Immunol** 1997 Jun; 78(6):544–54; quiz 555–6 (67 ref.)

Comparative evaluation of blood culture using the Vital automated system and the Becton–Dickinson Septi–Chek BHI–S biphasic and Sch bottles. Perez C, et al. **Ann Biol Clin (Paris)** 1996;54(3–4):159–63

Malt–yeast extract–sucrose agar, a suitable medium for enumeration and isolation of fungi from silage. Skaar I, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3614–9

Airborne fungus allergen in association with residential characteristics in atopic and control children in a subtropical region. Li CS, et al. **Arch Environ Health** 1997 Jan–Feb;52(1):72–9

Non–dermatophytes in onychomycosis of the toenails. Ellis DH, et al. **Br J Dermatol** 1997 Apr;136(4):490–3

Microbial spoilage of ostrich (Struthio camelus) eggs. Deeming DC. **Br Poult Sci** 1996 Jul;37(3):689–93

Fungal microflora biodiversity as a function of pollution in Oued Sebou (Morocco). Sage L, et al. **Chemosphere** 1997 Aug;35(4):751–9

Mycotic keratitis in children: epidemiologic and microbiologic evaluation. Panda A, et al. **Cornea** 1997 May; 16(3):295–9

Mycetoma. McGinnis MR. **Dermatol Clin** 1996 Jan; 14(1):97–104 (65 ref.)

Controversies in medical mycology. Rinaldi MG. **Dermatology** 1997;194 Suppl 1:45–7

Fine–needle aspiration biopsy in fungal infections. Das R, et al. **Diagn Cytopathol** 1997 Jan;16(1):31–4

Duration of fungal culture incubation in an area endemic for Histoplasma capsulatum. Hove MG, et al. **Diagn Microbiol Infect Dis** 1997 May;28(1):41–3

Fungal flora and aflatoxin contamination of feedstuff samples in Beida Governorate, Libya. el–Maraghy SS. **Folia Microbiol (Praha)** 1996;41(1):53–60

Study of fungi associated with bronchopulmonary disorders. Gupta BK, et al. **Indian J Med Sci** 1996 Sep;50(9):333–6

Moulds in food spoilage. Filtenborg O, et al. **Int J Food Microbiol** 1996 Nov;33(1):85–102 (108 ref.)

Electronic nose for microbial quality classification of grains. Jonsson A, et al. **Int J Food Microbiol** 1997 Apr 1; 35(2):187–93

Enumeration of fungi in barley. Rabie CJ, et al. **Int J Food Microbiol** 1997 Apr 1;35(2):117–27

Mycoflora of paddy and milled rice produced in the region of northeastern Argentina and southern Paraguay. Tonon SA, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):231–5

Incidence and detection of thermotolerant and thermophilic fungi from maize with particular reference to Thermoascus species. Wareing PW. **Int J Food Microbiol** 1997 Apr 1; 35(2):137–45

Endogenous fungal endophthalmitis. Samiy N, et al. **Int Ophthalmol Clin** 1996 Summer;36(3):147–62 (92 ref.)

Mycobiota in Portuguese 'normal' and 'green' cork throughout the manufacturing process of stoppers. Danesh P, et al. **J Appl Microbiol** 1997 Jun;82(6):689–94

Microbial contamination of hydrogel contact lenses. Gopinathan U, et al. **J Appl Microbiol** 1997 May; 82(5):653–8

Diversity of microfungi in the sandy soil of Ipanema Beach, Rio de Janeiro, Brazil. de Moura Sarquis MI, et al. **J Basic Microbiol** 1996;36(1):51–8

Clinical importance of increased sensitivity of BacT/Alert FAN aerobic and anaerobic blood culture bottles. McDonald LC, et al. **J Clin Microbiol** 1996 Sep; 34(9):2180–4

Performance of fungal blood cultures by using the Isolator collection system: is it cost–effective? Morrell RM Jr, et al. **J Clin Microbiol** 1996 Dec;34(12):3040–3

Duration of incubation of fungal cultures. Morris AJ, et al. **J Clin Microbiol** 1996 Jun;34(6):1583–5

A disjunct Californian strain of Entomophaga aulicae infecting Orgyia vetusta. Hajek AE, et al. **J Invertebr Pathol** 1996 Nov;68(3):260–8

Fungal contamination of potential medical interest in Spanish grain stores. Mediavilla Molina A, et al. **J Investig Allergol Clin Immunol** 1996 May–Jun; 6(3):196–201

Keratomycosis in a Percheron cross horse caused by Cladorrhinum bulbillosum. Chopin JB, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):53–5

Lasiodiplodia theobromae isolated from a subcutaneous abscess in a Cambodian immigrant to Australia. Maslen MM, et al. **J Med Vet Mycol** 1996 Jul–Aug;34(4):279–83

Mycological and some physiological studies of keratinophilic and other moulds associated with sheep wool. Abdel-Gawad KM. **Microbiol Res** 1997 Jul;152(2):181–8

Use of gas chromatography–ion trap tandem mass spectrometry for the detection and characterization of microorganisms in complex samples. Larsson L, et al. **Mol Biotechnol** 1997 Jun;7(3):279–87 (33 ref.)

Amplified fragment length polymorphism (AFLP) fingerprinting of symbiotic fungi cultured by the fungus-growing ant Cyphomyrmex minutus. Mueller UG, et al. **Mol Ecol** 1996 Feb;5(1):119–22

Fungal biodiversity in the air of Turin. Airaudi D, et al. **Mycopathologia** 1996–97;136(2):95–102

Mycoflora and fumonisin-producing strains of Fusarium moniliforme in mixed poultry feeds and component raw material. Castellá G, et al. **Mycopathologia** 1996; 133(3):181–4

Fungi associated with herbal drug plants during storage. Efuntoye MO. **Mycopathologia** 1996–97;136(2):115–8

Fungi associated with post-harvest rot of black plum (Vitex doniana) in Nigeria. Eseigbe DA, et al. **Mycopathologia** 1996–97;136(2):109–14

Deoxynivalenol and contaminant mycoflora in freshly harvested Argentinian wheat in 1993. González HH, et al. **Mycopathologia** 1996;135(2):129–34

Isolation of fungi from the pelage of cats and dogs using the hairbrush technique. Simpanya MF, et al. **Mycopathologia** 1996;134(3):129–33

Fungal flora of the hair coat of stray cats in Iran. Khosravi AR. **Mycoses** 1996 May–Jun;39(5–6):241–3

Influence of sundrying on the chemical composition, aflatoxin content and fungal counts of two pepper varieties—Capsicum annum and Capsicum frutescens. Adegoke GO, et al. **Plant Foods Hum Nutr** 1996 Feb; 49(2):113–7

A preliminary study on the occurrence of keratinolytic fungi in the street sweepings from Chorzów. Ulfig K, et al. **Rocz Panstw Zakl Hig** 1996;47(2):143–9

Prevalence of microorganisms in dead mink kits from Aleutian-disease-infected and non-infected farms. Martino PE, et al. **Vet Res** 1996;27(6):607–12

Examination of soils from residential garbage in Betul, India, for fungi by the keratin baiting technique. Sharma B, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):139–45

[Quantitative bacteriological and mycological feces analysis] Rösch W. **Dtsch Med Wochenschr** 1997 Jun 20; 122(25–26):842 **(Ger)**

[Increasing frequency of onychomycoses—is there a change in the spectrum of infectious agents?] Ginter G, et al. **Mycoses** 1996;39 Suppl 1:118–22 (Eng. Abstr.) **(Ger)**

[Fungi in the home and hospital environment] Staib F. **Mycoses** 1996;39 Suppl 1:26–9 (28 ref.) (Eng. Abstr.) **(Ger)**

[Pathways and procedures of mycological diagnosis in veterinary laboratories. A diagnostic approach] Vissiennon T, et al. **Tierarztl Prax** 1997 Jan;25(1):85–93 (Eng. Abstr.) **(Ger)**

[The restoration of the "Sistine Chapel". II: Microbiologic study of Michelangelo's "Last Judgement"] Montacutelli R, et al. **Ann Ig** 1997 Mar–Apr;9(2):143–51 **(Ita)**

[Pollution by mites and/or mold spores in work environments and the risk of occupational respiratory pathology] Palmas F, et al. **Med Lav** 1996 Sep–Oct;87(5):411–22 (Eng. Abstr.) **(Ita)**

[In vitro antifungal activity of omoconazole nitrate, a novel imidazone antimycotic drug, against clinical isolates from patients with cutaneous mycosis] Uchida K, et al. **Jpn J Antibiot** 1996 Aug;49(8):818–23 (Eng. Abstr.) **(Jpn)**

[The prevalence of bacterial and fungal aerosol in homes, offices and ambient air of Upper Silesia. Preliminary results] Lis DO, et al. **Rocz Panstw Zakl Hig** 1997;48(1):59–68 (Eng. Abstr.) **(Pol)**

[Distribution of natural parasites—fungi and microsporidia—in the population of malaria mosquito (Diptera: Culicidae) larva before and after infection by the entomopathogenic bacteria Bacillus thuringiensis Israelensis. Burlak VA, et al. **Parazitologiia** 1997 Jan–Feb; 31(1):45–52 (Eng. Abstr.) **(Rus)**

[Mycotoxin-producing fungi in foods] Fernández Pinto VE, et al. **Rev Argent Microbiol** 1996 Jul–Sep;28(3):147–62 (73 ref.) (Eng. Abstr.) **(Spa)**

METABOLISM

Oleaginous microorganisms: an assessment of the potential. Leman J. **Adv Appl Microbiol** 1997;43:195–243 (230 ref.)

Microbiological production of lactic acid. Litchfield JH. **Adv Appl Microbiol** 1996;42:45–95 (253 ref.)

Saponin detoxification by plant pathogenic fungi. Osbourn AE, et al. **Adv Exp Med Biol** 1996;404:547–55 (44 ref.)

The beta-ketoadipate pathway and the biology of self-identity. Harwood CS, et al. **Annu Rev Microbiol** 1996; 50:553–90 (163 ref.)

Nylon biodegradation by lignin-degrading fungi. Deguchi T, et al. **Appl Environ Microbiol** 1997 Jan;63(1):329–31

Degradation of the fluoroquinolone enrofloxacin by wood-rotting fungi. Martens R, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4206–9

The anaerobic fungus Piromyces sp. strain E2: nitrogen requirement and enzymes involved in primary nitrogen metabolism. Dijkerman R, et al. **Arch Microbiol** 1996 Dec; 166(6):399–404

The role of the cellulolytic high molecular mass (HMM) complex of the anaerobic fungus Piromyces sp. strain E2 in the hydrolysis of microcrystalline cellulose. Dijkerman R, et al. **Arch Microbiol** 1997 Feb–Mar;167(2–3):137–42

Sporodesmin toxicosis in an alpaca. Coulton MA, et al. **Aust Vet J** 1997 Feb;75(2):136–7

Efficient purification, characterization and partial amino acid sequencing of two alpha-1,4-glucan lyases from fungi. Yu S, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):311–20

The culture fluid of Isaira japonica yasuda augments anti-sheep red blood cell antibody response in mice. Takano F, et al. **Biol Pharm Bull** 1996 Apr;19(4):641–3

Metabolism of goniothalamin in animal and microbial system. El-Sharkawy S, et al. **Boll Chim Farm** 1996 Jan; 135(1):35–40

Formation of mammalian metabolites of cyclobenzaprine by the fungus, Cunninghamella elegans. Zhang D, et al. **Chem Biol Interact** 1996 Oct 21;102(2):79–92

Biodegradation of three substituted phenylurea herbicides (chlortoluron, diuron, and isoproturon) by soil fungi. A comparative study. Vroumsia T, et al. **Chemosphere** 1996 Nov;33(10):2045–56

Production of lactones and peroxisomal beta-oxidation in yeasts. Endrizzi A, et al. **Crit Rev Biotechnol** 1996; 16(4):301–29 (195 ref.)

Transport of small ions and molecules through the plasma membrane of filamentous fungi. Burgstaller W. **Crit Rev Microbiol** 1997;23(1):1–46 (294 ref.)

Stereoselective metabolism of rac-mexiletine by the fungus Cunninghamella echinulata yields the major human metabolites hydroxymethylmexiletine and p-hydroxymexiletine. Freitag DG, et al. **Drug Metab Dispos** 1997 Jun;25(6):685–92

Microbial models of mammalian metabolism. Fungal metabolism of phenolic and nonphenolic p-cymene-related drugs and prodrugs. I. Metabolites of thymoxamine. Moussa C, et al. **Drug Metab Dispos** 1997 Mar;25(3):301–10

Microbial models of mammalian metabolism. Fungal metabolism of phenolic and nonphenolic p-cymene-related drugs and prodrugs. II. Metabolites of nonphenolic derivatives. Moussa C, et al. **Drug Metab Dispos** 1997 Mar; 25(3):311–6

Microbial models of mammalian metabolism. Biotransformations of HP 749 (besipirdine) using Cunninghamella elegans. Rao GP, et al. **Drug Metab Dispos** 1997 Jun;25(6):709–15

Influence of microorganisms on the environmental fate of radionuclides. Gadd GM. **Endeavour** 1996;20(4):150–6 (50 ref.)

Trehalases and trehalose hydrolysis in fungi. Jorge JA, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):165–71 (44 ref.)

Methionine production by microorganisms. Mondal S, et al. **Folia Microbiol (Praha)** 1996;41(6):465–72 (73 ref.)

The effect of chloroform-extractable secondary metabolites of filamentous fungi on the movement of respiratory tract cilia of one-day-old chicks in vitro. Piecková E, et al. **Folia Microbiol (Praha)** 1995;40(1):123–7

Metabolic pathway gene clusters in filamentous fungi. Keller NP, et al. **Fungal Genet Biol** 1996 Feb;21(1):17–29 (93 ref.)

Production of free amino acids by some earthworm-borne microorganisms. Joy EK, et al. **Hindustan Antibiot Bull** 1995 Feb–Nov;37(1–4):16–24

Microbial biotransformation products of cyclosporin A. Kuhnt M, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):781–7

Isolation and structure elucidation of five new asterriquinones from Aspergillus, Humicola and Botryotrichum species. Mocek U, et al. **J Antibiot (Tokyo)** 1996 Sep;49(9):854–9

Inhibitors of type-I interleukin-1 receptor from microbial metabolites. Stefanelli S, et al. **J Antibiot (Tokyo)** 1997 Jun; 50(6):484–9

Synthesis and bioevaluation of delta 7-5-desaturase inhibitors, an enzyme late in the biosynthesis of the fungal sterol ergosterol. Goldstein AS. **J Med Chem** 1996 Dec 20;39(26):5092–9

Screening of microbial extracts for tyrosine kinase inhibitors. Alvi KA, et al. **Jpn J Antibiot** 1997 Mar;50(3):264–6

Genetic regulation of nitrogen metabolism in the fungi. Marzluf GA. **Microbiol Mol Biol Rev** 1997 Mar;61(1):17–32 (129 ref.)

Fungal siderophores in plant-microbe interactions. Riquelme M. **Microbiologia** 1996 Dec;12(4):537–46 (60 ref.)

Meeting report. The filaments that bind us. Caddick M, et al. **Microbiology** 1996 Feb;142 (Pt 2):213–5

Filamentous microfungi in raw flax and cotton for textile industry and their ciliostatic activity on tracheal organ cultures in vitro. Piecková E, et al. **Mycopathologia** 1996; 134(2):91–6

Further studies on Egyptian soil fungi: succession of sugar and osmophilic fungi in soil amended with five organic substrates. Shaban GM. **Mycopathologia** 1996;136(1):33–40

Microorganisms as an alternative source of protein. Kuhad RC, et al. **Nutr Rev** 1997 Mar;55(3):65–75 (60 ref.)

Microbial secondary metabolites play important roles in medicine; prospects for discovery of new drugs. Bentley R. **Perspect Biol Med** 1997 Spring;40(3):364–94 (96 ref.)

Two-step hydrolysis of amygdalin in molds [letter] Brimer L, et al. **Riv Biol** 1996;89(3):493–6

Advances in microbial steroid biotransformation. Mahato SB, et al. **Steroids** 1997 Apr;62(4):332–45 (133 ref.)

Antifungal sterol biosynthesis inhibitors. Guo DA, et al. **Subcell Biochem** 1997;28:89–116 (92 ref.)

[Comparative analysis of metabolites of Candida albicans and other clinically important fungi using gas chromatography] Pozdorovkina VV, et al. **Antibiot Khimioter** 1996 May; 41(5):39–45 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Fungal virulence genes as targets for antifungal chemotherapy. Perfect JR. **Antimicrob Agents Chemother** 1996 Jul;40(7):1577–83 (85 ref.)

Pathogenic mechanisms induced by microbial proteases in microbial infections. Maeda H, et al. **Biol Chem Hoppe Seyler** 1996 Apr;377(4):217–26 (90 ref.)

New fungal pathogens. Bodey GP. **Curr Clin Top Infect Dis** 1997;17:205–35 (134 ref.)

Dermatophytes and other keratinophilic fungi causing ringworm of horses. Mahmoud ALE. **Folia Microbiol (Praha)** 1995;40(3):293–6

The effect of chloroform-extractable secondary metabolites of filamentous fungi on the movement of respiratory tract cilia of one-day-old chicks in vitro. Piecková E, et al. **Folia Microbiol (Praha)** 1995;40(1):123–7

Linking approaches in the study of fungal pathogenesis: a commentary. Hamer JE, et al. **Fungal Genet Biol** 1996 Feb; 21(1):11–6

Toxinogenicity of heat-resistant fungi detected by a bio-assay. Piecková E, et al. **Int J Food Microbiol** 1997 May 20;36(2–3):227–9

Effect of nematode-trapping fungi on an entomopathogenic nematode originating from the same field site in California. Koppenhöfer AM, et al. **J Invertebr Pathol** 1996 Nov; 68(3):246–52

Characterization of eds1, a mutation in Arabidopsis suppressing resistance to Peronospora parasitica specified by several different RPP genes. Parker JE, et al. **Plant Cell** 1996 Nov;8(11):2033–46

Host-selective toxins: agents of compatibility. Walton JD. **Plant Cell** 1996 Oct;8(10):1723–33 (60 ref.)

A polyketide synthase is required for fungal virulence and production of the polyketide T-toxin. Yang G, et al. **Plant Cell** 1996 Nov;8(11):2139–50

Virulence and transmissibility of pathogens: what is the relationship? Lipsitch M, et al. **Trends Microbiol** 1997 Jan; 5(1):31–7 (69 ref.)

[Newly emerging fungal pathogens] Tomšíková A. **Epidemiol Mikrobiol Imunol** 1996 Dec;45(4):163–70 (Eng. Abstr.) **(Cze)**

[Health risks in connection with fungi: a contribution to the assessment of fungi in the risk potential of safety provisions] Meinhof W, et al. **Mycoses** 1996;39 Suppl 1:48–50 (Eng. Abstr.) **(Ger)**

[Are there pathogenicity factors in fungi?] Morschhäuser J, et al. **Mycoses** 1996;39 Suppl 1:51–4 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Survival of selected bacteria and fungi in hypertonic (7.2%) saline. St Jean G, et al. **Aust Vet J** 1997 Feb;75(2):137–8

From the surface to the inner layer of the fungal cell wall. Fontaine T, et al. **Biochem Soc Trans** 1997 Feb;25(1):194–9 (48 ref.)

Free radicals and other paramagnetic ions in interactions between fungal pathogens and potato tubers. Snijder AJ, et al. **Biochem Soc Trans** 1996 May;24(2):442–6 (13 ref.)

Growing into the air. Talbot NJ. **Curr Biol** 1997 Feb 1; 7(2):R78–81 (12 ref.)

Chlorine inactivation of fungal spores on cereal grains. Andrews S, et al. **Int J Food Microbiol** 1997 Apr 1; 35(2):153–62

Effect of fungal biomass in alfalfa hay on intake and total tract digestion in growing beef calves. Bossuyt CV, et al. **J Anim Sci** 1996 Jun;74(6):1336–42

Adaptation of proteases and carbohydrates of saprophytic, phytopathogenic and entomopathogenic fungi to the requirements of their ecological niches. St Leger RJ, et al. **Microbiology** 1997 Jun;143 (Pt 6):1983–92

A peroxidase gene promoter induced by phytopathogens and methyl jasmonate in transgenic plants. Curtis MD, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):326–38

Anaerobic fungi in the digestive tract of mammalian herbivores and their potential for exploitation. Theodorou MK, et al. **Proc Nutr Soc** 1996 Nov;55(3):913–26 (72 ref.)

RADIATION EFFECTS

Effect of gamma radiation on the survival of fungal and actinomycetal florae contaminating medicinal plants. Aziz NH, et al. **Appl Radiat Isot** 1997 Jan;48(1):71–6

FUNGI

[The effect of solar ultraviolet on the system of microorganisms–higher plant antibiotics, a natural phenomenon and a new approach to enhancing the efficacy of antibiotics] Smirnov VV, et al. **Antibiot Khimioter** 1996; 41(11):7–13 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Hydrogenosomes in the anaerobic fungus Neocallimastix frontalis have a double membrane but lack an associated organelle genome. van der Giezen M, et al. **FEBS Lett** 1997 May 19;408(2):147–50

A double membrane surrounds the hydrogenosomes of the anaerobic fungus Neocallimastix frontalis. Benchimol M, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):277–82

Lipids and ultrastructure of Thraustochytrium sp. ATCC 26185. Weete JD, et al. **Lipids** 1997 Aug;32(8):839–45

VIROLOGY

Virulence of the entomopathogenic fungus Metarhizium flavoviride Gams and Rozsypal and toxicity of diflubenzuron, fenitrothion–esfenvalerate and profenofos–cypermethrin to nontarget arthropods in Mauritania. Peveling R, et al.
Arch Environ Contam Toxicol 1997 Jan;32(1):69–79

Viral nucleic acid sequence transfer between fungi and plants [letter] Marienfeld JR, et al. **Trends Genet** 1997 Jul; 13(7):260–1

Complete RNA1 sequences of two UK isolates of barley mild mosaic virus: a wild–type fungus–transmissible isolate and a non–fungus–transmissible derivative. Peerenboom E, et al. **Virus Res** 1997 Aug;50(2):175–83

FUNGI IMPERFECTI see **DEUTEROMYCETES**

FUNGICIDES, INDUSTRIAL

ADVERSE EFFECTS

Allergic contact dermatitis from a lawn care fungicide containing dyrene. Mathias CG. **Am J Contact Dermat** 1997 Mar;8(1):47–8

Photoallergic contact dermatitis from mancozeb, an agricultural fungicide. Higo A, et al. **Contact Dermatitis** 1996 Sep;35(3):183

Allergic contact dermatitis from the fungicide Rondo–M and the insecticide Alfacron. Iliev D, et al.
Contact Dermatitis 1997 Jan;36(1):51

Occupational allergic contact dermatitis and airborne contact dermatitis from 5 fungicides in a vineyard worker. Cross–reactions between fungicides of the dithiocarbamate group? Koch P. **Contact Dermatitis** 1996 May;34(5):324–9

Photoallergic contact dermatitis due to Daconil. Matsushita S, et al. **Contact Dermatitis** 1996 Aug;35(2):115–6

Chlorothalonil, a possible cause of erythema dyschromicum perstans (ashy dermatitis). Penagos H, et al.
Contact Dermatitis 1996 Oct;35(4):214–8

Is vinclozolin a reproductive hazard to men? [letter; comment] James WH. **Occup Environ Med** 1997 Apr; 54(4):285. Comment on: Occup Environ Med 1995 Apr;52(4):233–41.

Are biological antagonists an alternative to synthetic fungicides for preventing postharvest diseases of fruits and vegetables? Droby S, et al. **Rev Environ Health** 1996 Jan–Jun;11(1–2):71–7 (47 ref.)

Reproductive effects of paternal exposure to chlorophenate wood preservatives in the sawmill industry [see comments] Dimich–Ward H, et al. **Scand J Work Environ Health** 1996 Aug;22(4):267–73. Comment in: Scand J Work Environ Health 1997 Feb;23(1):69.

ANALYSIS

Multiresidue analysis of fungicides in strawberry. Nagami H. **Bull Environ Contam Toxicol** 1997 Jan;58(1):53–60

Contamination of soil with copper, chromium, and arsenic under decks built from pressure treated wood. Stilwell DE, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):22–9

Identification of pentachloronitrobenzene in ambient air extracts. Thompson TS, et al.
Bull Environ Contam Toxicol 1997 Jun;58(6):939–44

Separation of fungicides by micellar electrokinetic capillary chromatography. Penmetsa KV, et al. **Electrophoresis** 1997 Feb;18(2):235–40

Determination of thiabendazole residues in whole citrus fruits by liquid chromatography with fluorescence detection. Arenas RV, et al. **J AOAC Int** 1996 Mar–Apr;79(2):579–82

Gas chromatographic determination of cyprodinil, fludioxonil, pyrimethanil, and tebuconazole in grapes, must, and wine. Cabras P, et al. **J AOAC Int** 1997 Jul–Aug; 80(4):867–70

Modification of AOAC multiresidue method for determining synthetic pyrethroid residues in fruits, vegetables, and grains. Part III: Studies of analyte stability and method ruggedness. Pang GF, et al. **J AOAC Int** 1997 Jan–Feb; 80(1):63–73

Gas chromatographic determination of chlorothalonil in leaves and roots of Scrophularia and in soil. Zhao L, et al. **J AOAC Int** 1996 Mar–Apr;79(2):587–8

Determination of the fungicide vinclozolin in honey and bee larvae by solid–phase and solvent extraction with gas chromatography and electron–capture and mass spectrometric detection. Bernal JL, et al.
J Chromatogr A 1996 Nov 22;754(1–2):507–13

Complementation of direct–injection high–performance liquid chromatography and enzyme–linked immunosorbent assay for the analysis of thiabendazole in fruit juices and concentrates. Bushway RJ. **J Chromatogr A** 1996 Nov 22; 754(1–2):431–5

Simplified determination of combined residues of prochloraz and its metabolites in vegetable, fruit and wheat samples by gas chromatography. De Paoli M, et al.
J Chromatogr A 1997 Mar 21;765(1):127–31

Chromatographic analysis of imazalil and carbendazim in fruits. Method validation and residue monitoring program 1995. Garrido J, et al. **J Chromatogr A** 1997 Mar 21; 765(1):91–7

Evaluation of multiwavelength chromatograms for the quantification of mixtures of pesticides by high–performance liquid chromatography–diode array detection with multivariate calibration. Martínez Galera M, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):139–49

Application of porous carbon for solid–phase extraction of dicarboxyimide fungicide residues from wines in combination with high–resolution capillary gas chromatography and gas chromatography–mass spectrometry. Matisová E, et al. **J Chromatogr A** 1996 Nov 22;754(1–2):445–54

Simultaneous determination of malachite green, gentian violet and their leuco metabolites in catfish or trout tissue by high–performance liquid chromatography with visible detection. Rushing LG, et al.
J Chromatogr B Biomed Appl 1997 Jan 24;688(2):325–30

Monitoring of exposure to benomyl in nursery workers. Hoekstra EJ, et al. **J Occup Environ Med** 1996 Aug; 38(8):775–81

Changes of bromopropylate and carbendazim residues during processing of apples into apple puree. Sadło S.
Rocz Panstw Zakl Hig 1996;47(3):273–6

[The retention of Baytan and Bayleton in cadaveric material] Shormanov VK, et al. **Sud Med Ekspert** 1996 Oct–Dec; 39(4):43–5 (Eng. Abstr.) **(Rus)**

BLOOD

PCBs and HCB in serum of full–term German neonates [letter] Lackmann GM, et al. **Lancet** 1996 Oct 12; 348(9033):1035

CHEMICAL SYNTHESIS

6–Alkyl and 6–arylcarbamoyloximino pyrazolo[3,4–b][1,4]diazepines as potential fungicidal, insecticidal and herbicidal agents. Vicentini CB, et al.
Farmaco 1996 Aug–Sep;51(8–9):609–12

Synthesis and fungicide activity of 2,3–dihydroimidazo [2,1–b]thiazole–5–carboxamides. Andreani A, et al.
Pharm Acta Helv 1995 Dec;70(4):325–8

CHEMISTRY

Spontaneous N,N'–dibutylurea (DBU) formation in Benlate DF formulation under elevated temperatures. Tang CS, et al. **Arch Environ Contam Toxicol** 1996 Mar;30(3):403–6

IMMUNOLOGY

Immunomodulatory effects of occupational exposure to mancozeb. Colosio C, et al. **Arch Environ Health** 1996 Nov–Dec;51(6):445–51

METABOLISM

Accumulation of chlorinated benzenes in earthworms. Beyer WN. **Bull Environ Contam Toxicol** 1996 Nov;57(5):729–36

Half–lives of pesticides on greenhouse crops. Brouwer DH, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):976–84

Fate of vinclozolin in creeping bentgrass turf under two application frequencies. Frederick EK, et al.
Bull Environ Contam Toxicol 1996 Sep;57(3):391–7

Absorption and degradation of metalaxyl in mustard plant (Brassica juncea). Mehta N, et al.
Ecotoxicol Environ Saf 1997 Jul;37(2):119–24

Metabolism of hexachlorobenzene in humans: association between serum levels and urinary metabolites in a highly exposed population. To–Figueras J, et al.
Environ Health Perspect 1997 Jan;105(1):78–83

The carry–through of residues of thiabendazole, tecnazene and chlorpropham from potatoes following manufacture into potato crisps and jacket potato crisps. Lewis DJ, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):221–9

Cytochrome P450–mediated metabolism and nephrotoxicity of N–(3,5–dichlorophenyl)succinimide in Fischer 344 rats. Nyarko AK, et al. **Fundam Appl Toxicol** 1997 Jun; 37(2):117–24

The effect of aromatic fluorine substitution on the nephrotoxicity and metabolism of N–(3,5–dichlorophenyl)succinimide in Fischer 344 rats. Kellner–Weibel GL, et al. **Toxicology** 1997 Feb 14; 117(1):73–83

In vitro metabolism of the nephrotoxicant N–(3,5–dichlorophenyl)succinimide in the Fischer 344 rat and New Zealand white rabbit. Griffin RI, et al.
Xenobiotica 1996 Apr;26(4):369–80

PHARMACOKINETICS

Pharmacokinetic model of dioxin and furan levels in adipose tissue from sawmill work involving chlorophenate fungicides. Campbell CA, et al. **Chemosphere** 1996 Dec; 33(12):2373–81

Biotransformation of the fungicide chlorthalonil by glutathione conjugation. Rosner E, et al.
Fundam Appl Toxicol 1996 Oct;33(2):229–34

Metabolism of 2,3,5,6–tetrachloronitrobenzene (tecnazene) in rat. Lappin GJ, et al. **Xenobiotica** 1996 Jan;26(1):65–77

PHARMACOLOGY

The effect of phenyl mercury on reproductive performance in laying hens. Pribilincová J, et al. **Acta Vet Hung** 1996; 44(3):377–87

Effects of carbendazim (methyl 2–benzimidazole carbamate; MBC) on meiotic spermatocytes and subsequent spermiogenesis in the rat testis. Nakai M, et al.
Anat Rec 1997 Mar;247(3):379–87

A mutation in the 14 alpha–demethylase gene of Uncinula necator that correlates with resistance to a sterol biosynthesis inhibitor. Délye C, et al.
Appl Environ Microbiol 1997 Aug;63(8):2966–70

Thiram and dimethyldithiocarbamic acid interconversion in Saccharomyces cerevisiae: a possible metabolic pathway under the control of the glutathione redox cycle. Elskens MT, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2857–62

Effect of plant extracts and systemic fungicide on the pineapple fruit–rotting fungus, Ceratocystis paradoxa. Damayanti M, et al. **Cytobios** 1996;86(346):155–65

A PCR–based method to characterise and identify benzimidazole resistance in Helminthosporium solani. McKay GJ, et al. **FEMS Microbiol Lett** 1997 Jul 15; 152(2):371–8

Stage specific effects of carbendazim (MBC) on meiotic cell cycle progression in mouse oocytes. Can A, et al.
Mol Reprod Dev 1997 Mar;46(3):351–62

M–phase specific centrosome–microtubule alterations induced by the fungicide MBC in human granulosa cells. Can A, et al. **Mutat Res** 1997 Jan 3;373(1):139–51

[Fungicidal activity of imbricin and its salts] Shenin IuD, et al. **Antibiot Khimioter** 1996 Jun;41(6):21–4 (Eng. Abstr.) **(Rus)**

POISONING

Calcium polysulfide overdose: a report of two cases [see comments] Horowitz BZ, et al. **J Toxicol Clin Toxicol** 1997; 35(3):299–303. Comment in: J Toxicol Clin Toxicol 1997 ;35(3):305–6.

Pentachlorophenol poisoning in newborn infants—St. Louis, Missouri, April–August 1967 [classical article]
MMWR Morb Mortal Wkly Rep 1996 Jun 28;45(25):545–9

An outbreak of thiram poisoning on Spanish poultry farms. Guitart R, et al. **Vet Hum Toxicol** 1996 Aug;38(4):287–8

[Ovarian activity of Drosophila melanogaster Meigen (Diptera), during a chronic intoxication with four fungicides: anatomical and cytological study]
Marchal–Ségault D, et al. **J Environ Sci Health B** 1997 May;32(3):411–28 (Eng. Abstr.) **(Fre)**

TOXICITY

Hepatotoxicity of diisopropyl ester of malonic acid and chloromalonic acids, disinfection by–products of the fungicide isoprothiolane. Jinno H, et al. **Arch Toxicol** 1997; 71(9):550–5

Intranephron distribution of cysteine S–conjugate beta–lyase activity and its implication for hexachloro–1,3–butadiene–induced nephrotoxicity in rats. Kim HS, et al. **Arch Toxicol** 1997;71(3):131–41

Toxicity of fungicides containing ethylene–bis–dithiocarbamate in serumless dissociated mesencephalic–striatal primary coculture. Soleo L, et al.
Arch Toxicol 1996;70(10):678–82

Accumulation and depuration of tributyltin oxide and its effect on the fertilization and embryonic development in the pacific oyster, Crassostrea gigas. Li Q, et al.
Bull Environ Contam Toxicol 1997 Mar;58(3):489–96

Bioconcentration and toxicity effect on lipid content of aquatic organisms. Liu ZT, et al.
Bull Environ Contam Toxicol 1996 Jan;56(1):135–42

Acute hepatotoxic potential of imazalil fungicide in rats. Nakagawa Y, et al. **Bull Environ Contam Toxicol** 1997 Mar; 58(3):402–7

Enhancing effects of captafol on the development of GST–P–positive liver cell foci in a medium–term bioassay, and protection by L–cysteine of the enhancement in rats. Kim HC, et al. **Cancer Lett** 1997 Jan 1;111(1–2):15–20

Biomarkers of effect in evaluating dithianon cocarcinogenesis: selective induction and suppression of murine CYP3A isoform. Paolini M, et al. **Cancer Lett** 1997 Feb 26;113(1–2):221–8

Toxicology of cupric salts on honeybees. V. Gluconate and sulfate action on gut alkaline and acid phosphatases. Bounias M, et al. **Ecotoxicol Environ Saf** 1996 Oct; 35(1):67–76

Imidazole fungicides provoke histamine release from mast cells and induce airway contraction. Gietzen K, et al.
Exp Toxicol Pathol 1996 Nov;48(6):529–31

Assessment of mutagenic potential of thiram. Agrawal RC, et al. **Food Chem Toxicol** 1997 May;35(5):523–5

Role of testis exposure levels in the insensitivity of prepubertal rats to carbendazim–induced testicular toxicity. Lim J, et al. **Fundam Appl Toxicol** 1997 Jun;37(2):158–67

Pro- and anti-oxidant parameters in rat liver after short-term exposure to hexachlorobenzene. Almeida MG, et al. **Hum Exp Toxicol** 1997 May;16(5):257-61

Local popliteal lymph node reactions to hexachlorobenzene and pentachlorobenzene: comparison with systemic effects. Schielen P, et al. **Immunopharmacology** 1996 Mar; 31(2-3):171-81

Induction of gonadal toxicity to male rats after chronic exposure to mancozeb. Kackar R, et al. **Ind Health** 1997; 35(1):104-11

Time course of hexachlorobenzene-induced alterations of lipid metabolism and their relation to porphyria. Billi de Catabbi S, et al. **Int J Biochem Cell Biol** 1997 Feb; 29(2):335-44

Effect of benomyl and carbendazim on steroid and molecular mechanisms in uterine decidual growth in rats. Spencer F, et al. **J Appl Toxicol** 1996 May-Jun;16(3):211-4

Biomarkers of effect in evaluating metalaxyl cocarcinogenesis. Selective induction of murine CYP 3A isoform. Paolini M, et al. **Mutat Res** 1996 Dec 12; 361(2-3):157-64

Genotoxicity of six pesticides by Salmonella mutagenicity test and SOS chromotest. Ruiz MJ, et al. **Mutat Res** 1997 May 23;390(3):245-55

Basic toxicology of pesticides. Costa LG. **Occup Med** 1997 Apr-Jun;12(2):251-68 (50 ref.)

A mechanistic interpretation of the oncogenicity of chlorothalonil in rodents and an assessment of human relevance. Wilkinson CF, et al. **Regul Toxicol Pharmacol** 1996 Aug;24(1 Pt 1):69-84 (94 ref.)

Blockade of ovulation in the rat by systemic and ovarian intrabursal administration of the fungicide sodium dimethyldithiocarbamate. Goldman JM, et al. **Reprod Toxicol** 1997 Mar-Jun;11(2-3):185-90

The role of the benomyl metabolite carbendazim in benomyl-induced testicular toxicity. Lim J, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):401-10

Studies on the mechanism of uroporphyrinogen decarboxylase inhibition in hexachlorobenzene-induced porphyria in the female rat. Mylchreest E, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):23-33

Triadimefon and triadimenol: effects on monoamine uptake and release. Walker QD, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):227-33

Protective effects of antioxidants against benomyl-induced lipid peroxidation and glutathione depletion in rats. Banks D, et al. **Toxicology** 1997 Jan 15;116(1-3):177-81

The effect of aromatic fluorine substitution on the nephrotoxicity and metabolism of N-(3,5-dichlorophenyl)succinimide in Fischer 344 rats. Kellner-Weibel GL, et al. **Toxicology** 1997 Feb 14; 117(1):73-83

Vinclozolin does not alter progesterone receptor (PR) function in vivo despite inhibition of PR binding by its metabolites in vitro. Laws SC, et al. **Toxicology** 1996 Sep 2;112(3):173-82

Buthionine sulfoximine (BSO) and N-(3,5-dichlorophenyl)succinimide nephrotoxicity: temporal aspects of BSO administration and BSO effects on renal transport systems. Rankin GO, et al. **Toxicology** 1997 Feb 28;117(2-3):207-17

The morphometric study of the 19-day chicken embryo skeleton (gallus domesticus). Pageze L, et al. **Vet Hum Toxicol** 1996 Aug;38(4):299-301

[Induction of micronuclei in erythrocytes of bone marrow and peripheral blood in laboratory mice following acute and subchronic exposure to DDT(fenarimol and nuarimol)] Tyrkiel E, et al. **Rocz Panstw Zakl Hig** 1996;47(2):151-8 (Eng. Abstr.) **(Pol)**

[The establishment of the maximum permissible concentration of orlok in the air of a work area when used in agriculture] Nakariakova MV, et al. **Gig Sanit** 1996 May-Jun;(3):15-7 (Eng. Abstr.) **(Rus)**

URINE

Phenylmercury and its mobilization in the organism by a metal complex-forming substance: 2,3-dimercapto-1-propane sodium sulfonate. Gomboš B, et al. **Med Lav** 1996 Jul-Aug;87(4):297-304

FUNGICIDES, THERAPEUTIC see **ANTIFUNGAL AGENTS**

FUNGUS DISEASES see **MYCOSES**

FUNGUS POISONING see **MYCOTOXICOSIS**

FUNNEL CHEST

Left thoracotomy for coronary bypass in a patient with pectus excavatum. Choghari C, et al. **Ann Thorac Surg** 1996 Oct;62(4):1182-3

DIAGNOSIS

[Bone deformities of the thorax and heart murmur: innocent versus organic?] Villelabeitia Deusto JA. **An Esp Pediatr** 1997 May;46(5):519-20 **(Spa)**

PATHOLOGY

Case report: bronchial atresia associated with pectus excavatum. Scholl RJ 3rd, et al. **Conn Med** 1997 May; 61(5):263-7 (15 ref.)

PHYSIOPATHOLOGY

Cardiorespiratory function before and after corrective surgery in pectus excavatum [letter; comment] Driscoll DJ, et al. **J Pediatr** 1996 Dec;129(6):943-4. Comment on: J Pediatr 1996 May;128(5 Pt 1):638-43.

RADIOGRAPHY

Chest wall deformity following maximal tissue expansion for breast reconstruction. Moor EV, et al. **Ann Plast Surg** 1996 Feb;36(2):129-32

SURGERY

Chest wall implants: their use for pectus excavatum, pectoralis muscle tears, Poland's syndrome, and muscular insufficiency. Hodgkinson DJ. **Aesthetic Plast Surg** 1997 Jan-Feb;21(1):7-15

Too large resection of pectus excavatum in young patients: a reason to worry? [letter; comment] Actis Dato GM, et al. **Ann Thorac Surg** 1996 Oct;62(4):1242-3. Comment on: Ann Thorac Surg 1995 Dec;60(6):1857-8.

Simultaneous repair of pectus excavatum and congenital heart disease. DeLeon MM, et al. **Ann Thorac Surg** 1997 Aug;64(2):557-9

Operation for pectus excavatum [letter; comment] Stark J. **Ann Thorac Surg** 1997 Jan;63(1):303-4. Comment on: Ann Thorac Surg 1996 Jun;61(6):1618-24; discussion 1625.

Instrumentation surgery for funnel chest. Nakamura T, et al. **Int Surg** 1995 Jul-Sep;80(3):235-8

Correction of pectus excavatum and pectus carinatum assisted by the endoscope. Kobayashi S, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1037-45

Aesthetic correction of mild funnel chest with autologous tissue augmentation. Yamamoto Y, et al. **Plast Reconstr Surg** 1997 Mar;99(3):892-4

Pectus excavatum in adults: destructive surgery or simple correction of an aesthetic defect? Paolini A, et al. **Riv Eur Sci Med Farmacol** 1996 Jan-Feb;18(1):11-7

[A simultaneous operation of aortic root, arch replacement, and sternal elevation for Marfan's syndrome--a case report] Ohhira M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):759-63 (Eng. Abstr.) **(Jpn)**

[Re-STO for recurrent funnel chest] Wada J, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):181-5 (Eng. Abstr.) **(Jpn)**

[Cleft sternum in an infant] Mota CR, et al. **Rev Port Cardiol** 1996 Jul-Aug;15(7-8):591-5, 549 (Eng. Abstr.) **(Por)**

FURA-2

Potential misevaluation of the ground-state dissociation constant from fluorimetric titrations: application to the ion indicators SBFI, PBFI, and fura-2. Kowalczyk A, et al. **Anal Biochem** 1997 Feb 1;245(1):28-37

Characterization of voltage-dependent calcium influx in human erythrocytes by fura-2. Soldati L, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):549-54

Non-hyperbolic calcium calibration curve of Fura-2: implications for the reliability of quantitative Ca2+ measurements. Henke W, et al. **Cell Calcium** 1996 Sep; 20(3):287-92

Quantification of intraluminal free [Ca] in the agonist-sensitive internal calcium store using compartmentalized fluorescent indicators: some considerations. Hofer AM, et al. **Cell Calcium** 1996 Sep; 20(3):235-42

ADMINISTRATION & DOSAGE

[Ca2+]i recordings from neural cells in acutely isolated cerebellar slices employing differential loading of the membrane-permeant form of the calcium indicator fura-2. Kirischuk S, et al. **Pflugers Arch** 1996 Apr;431(6):977-83

ANALOGS & DERIVATIVES

Autofluorescence as a confound in the determination of calcium levels in hippocampal slices using fura-2AM dye. Brooke SM, et al. **Brain Res** 1996 Jan 15;706(2):283-8

Effects of monovalent cations, pH and temperature on the dissociation constant (KD) for the fluorescent indicator mag-fura-2 at different excitation wavelengths. Howarth FC, et al. **Magnes Res** 1995 Dec;8(4):299-306

CHEMISTRY

A novel method for determination of inorganic polyphosphates using the fluorescent dye fura-2. Lorenz B, et al. **Anal Biochem** 1997 Mar 15;246(2):176-84

Determination of in situ dissociation constant for Fura-2 and quantitation of background fluorescence in astrocyte cell line U373-MG. Petr MJ, et al. **Cell Calcium** 1997 Mar; 21(3):233-40

Spectroscopic properties of fluorescence dye fura-2 with various divalent cations. Hatae J, et al. **Jpn J Physiol** 1996 Oct;46(5):423-9

DIAGNOSTIC USE

Focal increases in [Ca2+]i may account for apparent low Ca2+ sensitivity in swine carotid artery. Van Riper DA, et al. **Cell Calcium** 1996 Jun;19(6):501-8

A method for measuring sarcoplasmic reticulum calcium uptake in the skeletal muscle using Fura-2. Warmington SA, et al. **Cell Calcium** 1996 Jul;20(1):73-82

Study of potency, kinetics of block and toxicity of NMDA receptor antagonists using fura-2. Black M, et al. **Eur J Pharmacol** 1996 Dec 19;317(2-3):377-81

METABOLISM

Time course of calcium transients derived from Fura-2 fluorescence measurements in single fast twitch fibres of adult mice and rat myotubes developing in primary culture. Bakker AJ, et al. **Cell Calcium** 1997 May;21(5):359-64

Fura-2 fluorescent technique for the assessment of Ca2+ homeostasis in cardiomyocytes. Xu YJ, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):149-57

PHARMACOKINETICS

[Ca2+]i recordings from neural cells in acutely isolated cerebellar slices employing differential loading of the membrane-permeant form of the calcium indicator fura-2. Kirischuk S, et al. **Pflugers Arch** 1996 Apr;431(6):977-83

FURAGIN

PHARMACOLOGY

[Photosensitizing properties and antioxidant activity of furagin--an antimicrobial drug that is a derivative of nitrofuran] Makareeva EN, et al. **Biofizika** 1997 Mar-Apr; 42(2):472-9 (Eng. Abstr.) **(Rus)**

FURALDEHYDE

Furfural. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:409-29 (78 ref.)

METABOLISM

Furfural, a precursor of the cytokinin hormone kinetin, and base propenals are formed by hydroxyl radical damage of DNA. Barciszewski J, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):317-9

TOXICITY

Cytotoxicity of copper complexes of 2-furaldehyde oxime derivatives in murine and human tissue cultured cell lines. Hall IH, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2411-8

2,5-FURANDIONES see **MALEIC ANHYDRIDES**

FURANS

Extraction of glyceric and glycolic acids from urine with tetrahydrofuran: utility in detection of primary hyperoxaluria. Dietzen DJ, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1315-20

Furan. **IARC Monogr Eval Carcinog Risks Hum** 1995; 63:393-407 (61 ref.)

ADMINISTRATION & DOSAGE

Toxicity of furfuryl alcohol to F344 rats and B6C3F1 mice exposed by inhalation. Irwin RD, et al. **J Appl Toxicol** 1997 May-Jun;17(3):159-69

Frequency of Ha-ras-1 gene mutations inversely correlated with furan dose in mouse liver tumors. Johansson E, et al. **Mol Carcinog** 1997 Apr;18(4):199-205

ADVERSE EFFECTS

Re: "Exposure to polychlorinated dioxins and furans (PCDD/F) and mortality in a cohort of workers from a herbicide-producing plant in Hamburg, Federal, Republic of Germany" [letter; comment] Swaen GM. **Am J Epidemiol** 1997 Aug 15;146(4):361-3. Comment on: Am J Epidemiol 1995 Dec 1;142(11):1165-75.

Carcinogenicity of the drinking water mutagen 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone in the rat [see comments] Komulainen H, et al. **J Natl Cancer Inst** 1997 Jun 18;89(12):848-56. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):832-3.

Water chlorination, 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX), and potential cancer risk [editorial; comment] Melnick RL, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):832-3. Comment on: J Natl Cancer Inst 1997 Jun 18;89(12):848-56.

[The consumption of alcoholic drinks in Spain in the period of 1940-1987 (letter; comment)] Graciani MA, et al. **Med Clin (Barc)** 1996 Apr 6;106(13):517. Comment on: Med Clin (Barc) 1995 Apr 15;104(14):544-50. **(Spa)**

ANALYSIS

Identification by flow cytometry of seiridin, one of the main phytotoxins produced by three Seiridium species pathogenic to cypress. Evidente A, et al. **Nat Toxins** 1997; 5(1):14-9

[Dioxins and furans in edible species of fish from the Gulf of Gdańsk] Falandysz J, et al. **Rocz Panstw Zakl Hig** 1996; 47(2):197-204 (Eng. Abstr.) **(Pol)**

FURANS

[Dioxin and furan levels in Baikal seals] Tarasova EN, et al. **Dokl Akad Nauk** 1997 Jun;354(5):713–8 **(Rus)**

BLOOD

Using the blood concentration of 2,5–dimethylfuran as a marker for smoking. Ashley DL, et al.
Int Arch Occup Environ Health 1996;68(3):183–7

CHEMICAL SYNTHESIS

Nitroaromatic betulin derivatives as redox cycling agents. Miškinienė V, et al. **Biochem Mol Biol Int** 1997 Jun; 42(2):391–7

Synthesis of (+/–)–PF1092A, B, and C; new nonsteroidal progesterone receptor ligands. Kurihara K, et al.
J Antibiot (Tokyo) 1997 Apr;50(4):360–2
1

Expeditious syntheses of sugar–modified nucleosides and collections thereof exploiting furan–, pyrrole–, and thiophene–based siloxy dienes. Rassu G, et al.
J Med Chem 1997 Jan 17;40(2):168–80

Synthesis and physicochemical properties of the furan dicarboxylic acid,
3–carboxy–4–methyl–5–propyl–2–furanpropanoic acid, an inhibitor of plasma protein binding in uraemia. Costigan MG, et al. **J Pharm Pharmacol** 1996 Jun;48(6):635–40

Total synthesis of MS–444, a myosin light chain kinase inhibitor [letter] Tatsuta K, et al. **Jpn J Antibiot** 1997 Mar; 50(3):289–90

CHEMISTRY

2–Methyl–3–oxo–4–phenyl–2,3–dihydrofuran–2–yl acetate: a fluorogenic reagent for detection and analysis of primary amines. Chen P, et al. **Anal Chem** 1997 Jul 15; 69(14):2806–11

Engineering of novel polyketides. Progress and Prospects. Kramer PJ, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:32–45

4–deoxyannomontacin and (2,4–cis and trans)–annomontacinone, new bioactive mono–tetrahydrofuran annonaceous acetogenins from Goniothalamus giganteus. Alali F, et al.
Bioorg Med Chem 1997 Mar;5(3):549–55

Additional bioactive annonaceous acetogenins from Asimina triloba (Annonaceae). He K, et al. **Bioorg Med Chem** 1997 Mar;5(3):501–6

Applying Mosher's method to acetogenins bearing vicinal diols. The absolute configurations of muricatetrocin C and rollidecins A and B, new bioactive acetogenins from Rollinia mucosa. Shi G, et al. **Bioorg Med Chem** 1996 Aug; 4(8):1281–6

cis–gigantrionenin and 4–acetyl gigantetrocin A, two new bioactive annonaceous acetogenins from Goniothalamus giganteus, and the stereochemistries of acetogenin 1,2,5–triols. Zeng L, et al. **Bioorg Med Chem** 1996 Aug; 4(8):1271–9

Reaction of mucochloric and mucobromic acids with adenosine and cytidine: formation of chloro– and bromopropenal derivatives. Kronberg L, et al.
Chem Res Toxicol 1996 Dec;9(8):1257–63

Identification of adducts formed in reaction of adenosine with 3–chloro–4–methyl–5–hydroxy–2(5H)–furanone, a bacterial mutagen present in chloride disinfected drinking water. Munter T, et al. **Chem Res Toxicol** 1996 Jun; 9(4):703–8

Determination of a PAF antagonist pharmacophore using combined Molecular Electrostatic Potential and Molecular Lipophilicity Potential. Le Solleu H, et al.
Drug Des Discov 1994 Nov;12(2):149–67

Acetogenins from Annonaceae. Cavé A, et al.
Fortschr Chem Org Naturst 1997;70:81–288 (245 ref.)

PF1092A, B and C, new nonsteroidal progesterone receptor ligands produced by Penicillium oblatum. II. Physico–chemical properties and structure elucidation. Tabata Y, et al. **J Antibiot (Tokyo)** 1997 Apr;50(4):309–13

Structure–activity relationships of diverse Annonaceous acetogenins against multidrug resistant human mammary adenocarcinoma (MCF–7/Adr) cells. Oberlies NH, et al. **J Med Chem** 1997 Jun 20;40(13):2102–6

Targeting the minor groove of DNA: crystal structures of two complexes between furan derivatives of berenil and the DNA dodecamer d(CGCGAATTCGCG)2. Trent JO, et al. **J Med Chem** 1996 Nov 8;39(23):4554–62

Electron impact mass spectra of some bis–(2–benzothiazolyl)furans and bis–(2–benzothiazolyl)thiophenes. Karminski–Zamola G, et al. **Rapid Commun Mass Spectrom** 1996;10(13):1621–5

DIAGNOSTIC USE

Parathyroid scintigraphy: first experiences with technetium (III)–99m–Q12. Aigner RM, et al. **Eur J Nucl Med** 1997 Mar;24(3):326–9

Comparison of uptake of 99mTc–MIBI, 99mTc–tetrofosmin and 99mTc–Q12 into human breast cancer cell lines. de Jong M, et al. **Eur J Nucl Med** 1996 Oct;23(10):1361–6

Diagnostic utility of tomographic myocardial perfusion imaging with technetium 99m furifosmin (Q12) compared with thallium 201: results of a phase III multicenter trial [see comments] Hendel RC, et al. **J Nucl Cardiol** 1996 Jul–Aug;3(4):291–300. Comment in: J Nucl Cardiol 1996 Jul–Aug;3(4):356–7.

Furifosmin: the road to the final four [editorial; comment] Iskandrian AS. **J Nucl Cardiol** 1996 Jul–Aug;3(4):356–7. Comment on: J Nucl Cardiol 1996 Jul–Aug;3(4):291–300.

Effects of ouabain on technetium–99m–Q12 and thallium–201 extraction and retention by isolated rat heart. McGoron AJ, et al. **J Nucl Med** 1996 May;37(5):752–6

ISOLATION & PURIFICATION

PF1092A, B and C, new nonsteroidal progesterone receptor ligands produced by Penicillium oblatum. I. Taxonomy of producing strain, fermentation, isolation and biological activities. Tabata Y, et al. **J Antibiot (Tokyo)** 1997 Apr; 50(4):304–8

Three new adjacent bis–tetrahydrofuran acetogenins with four hydroxyl groups from Asimina triloba. He K, et al. **J Nat Prod** 1996 Nov;59(11):1029–34

Novel mono–tetrahydrofuran ring acetogenins, from the bark of Annona squamosa, showing cytotoxic selectivities for the human pancreatic carcinoma cell line, PACA–2. Hopp DC, et al. **J Nat Prod** 1997 Jun;60(6):581–6

Two new antiprotozoal 5–methylcoumarins from Vernonia brachycalyx. Oketch–Rabah HA, et al. **J Nat Prod** 1997 May;60(5):458–61

A new norcembranoid dimer from the red sea soft coral Sinularia gardineri. el Sayed KA, et al. **J Nat Prod** 1996 Jul;59(7):687–9

Five new monotetrahydrofuran ring acetogenins from the leaves of Annona muricata. Zeng L, et al. **J Nat Prod** 1996 Nov;59(11):1035–42

(2,4–cis)–asimicinone and (2,4–trans)–asimicinone: two novel bioactive ketolactone acetogenins from Asimina triloba (Annonaceae). Zhao GX, et al. **Nat Toxins** 1996;4(3):128–34

Tonkinelin: a novel annonaceous acetogenin from Uvaria tonkinensis. Chen Y, et al. **Planta Med** 1996 Dec; 62(6):512–4

First report of pectenotoxin–2 (PTX–2) in algae (Dinophysis fortii) related to seafood poisoning in Europe. Draisci R, et al. **Toxicon** 1996 Aug;34(8):923–35

METABOLISM

Biosynthesis of furan fatty acids (F–acids) by a marine bacterium, Shewanella putrefaciens. Shirasaka N, et al.
Biochim Biophys Acta 1997 Jun 23;1346(3):253–60

Characterization of amino acid and glutathione adducts of cis–2–butene–1,4–dial, a reactive metabolite of furan. Chen LJ, et al. **Chem Res Toxicol** 1997 Aug;10(8):866–74

Stereoselective metabolism of a new anticonvulsant drug candidate, losigamone, by human liver microsomes. Torchin CD, et al. **Drug Metab Dispos** 1996 Sep; 24(9):1002–8

Aspergillus nidulans stcL encodes a putative cytochrome P–450 monooxygenase required for bisfuran desaturation during aflatoxin/sterigmatocystin biosynthesis. Kelkar HS, et al. **J Biol Chem** 1997 Jan 17;272(3):1589–94

Reduced renal clearance of furancarboxylic acid, a major albumin–bound organic acid, in undialyzed uremic patients. Sato M, et al. **Nephron** 1996;74(2):419–21

Stereoselective bimolecular phenoxy radical coupling by an auxiliary (dirigent) protein without an active center [see comments] Davin LB, et al. **Science** 1997 Jan 17; 275(5298):362–6. Comment in: Science 1997 Jan 17;275(5298):306.

PHARMACOKINETICS

Efficacy, pharmacokinetics, and in vivo antiviral activity of UC781, a highly potent, orally bioavailable nonnucleoside reverse transcriptase inhibitor of HIV type 1. Buckheit RW Jr, et al. **AIDS Res Hum Retroviruses** 1997 Jun 10; 13(9):789–96

Microsomal metabolism of the 5–lipoxygenase inhibitor L–739,010: evidence for furan bioactivation. Zhang KE, et al. **Chem Res Toxicol** 1996 Mar;9(2):547–54

Prediction of furan pharmacokinetics from hepatocyte studies: comparison of bioactivation and hepatic dosimetry in rats, mice, and humans. Kedderis GL, et al.
Toxicol Appl Pharmacol 1996 Sep;140(1):124–30

PHARMACOLOGY

Efficacy, pharmacokinetics, and in vivo antiviral activity of UC781, a highly potent, orally bioavailable nonnucleoside reverse transcriptase inhibitor of HIV type 1. Buckheit RW Jr, et al. **AIDS Res Hum Retroviruses** 1997 Jun 10; 13(9):789–96

Nitroaromatic betulin derivatives as redox cycling agents. Miškinienė V, et al. **Biochem Mol Biol Int** 1997 Jun; 42(2):391–7

The thiocarboxanilide nonnucleoside UC781 is a tight–binding inhibitor of HIV–1 reverse transcriptase. Barnard J, et al. **Biochemistry** 1997 Jun 24;36(25):7786–92

Inhibition of HIV–1 Rev–RRE interaction by diphenylfuran derivatives. Ratmeyer L, et al. **Biochemistry** 1996 Oct 22; 35(42):13689–96

Inhibitory effects of shouseiryu–to on two–stage carcinogenesis. II. Anti–tumor–promoting activities of lignans from Asiasarum heterotropoides var. mandshuricum. Takasaki M, et al. **Biol Pharm Bull** 1997 Jul;20(7):776–80

Additional bioactive annonaceous acetogenins from Asimina triloba (Annonaceae). He K, et al. **Bioorg Med Chem** 1997 Mar;5(3):501–6

Modulation of the Rev–RRE interaction by aromatic heterocyclic compounds. Zapp ML, et al.
Bioorg Med Chem 1997 Jun;5(6):1149–55

Biochemical and pharmacological profile of a tetrasubstituted furanone as a highly selective COX–2 inhibitor. Riendeau D, et al. **Br J Pharmacol** 1997 May;121(1):105–17

Inhibition by HAJ11 of respiratory burst in neutrophils and the involvement of protein tyrosine phosphorylation and phospholipase D activation. Wang JP, et al.
Br J Pharmacol 1997 Jan;120(1):79–87

Phospholipid breakdown and choline release under hypoxic conditions: inhibition by bilobalide, a constituent of Ginkgo biloba. Klein J, et al. **Brain Res** 1997 May 2;755(2):347–50

The Annonaceous acetogenin bullatacin is cytotoxic against multidrug–resistant human mammary adenocarcinoma cells. Oberlies NH, et al. **Cancer Lett** 1997 May 1; 115(1):73–9

Suppression of intestinal polyposis in Apc delta716 knockout mice by inhibition of cyclooxygenase 2 (COX–2). Oshima M, et al. **Cell** 1996 Nov 29;87(5):803–9

Mucochloric acid action on phi X174 DNA: a comparison to other chlorine–substituted 2(5H)–furanones. LaLonde RT, et al. **Chem Res Toxicol** 1997 Feb;10(2):205–10

Comparative effectiveness of three antiprogestins alone and in combination with anordiol in terminating pregnancy in the rat. Dao B, et al. **Contraception** 1997 Jan;55(1):35–40

Platelet–activating factor antagonism improves ventricular contractility in endotoxemia. Herbertson MJ, et al.
Crit Care Med 1997 Feb;25(2):221–6

A selective inhibitor of cyclooxygenase–2 reverses endotoxin–induced pyretic responses in non–human primates. Chan CC, et al. **Eur J Pharmacol** 1997 May 30; 327(2–3):221–5

Losigamone decreases spontaneous synaptic activity in cultured hippocampal neurons. Draguhn A, et al.
Eur J Pharmacol 1997 May 1;325(2–3):245–51

The dopamine D3 receptor antagonist, (+)–S 14297, blocks the cataleptic properties of haloperidol in rats. Millan MJ, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):R7–9

Inhibition of benzo[a]pyrene–induced mouse forestomach neoplasia and reduction of H2O2 concentration in human polymorphonuclear leucocytes by flavour components of Japanese–style fermented soy sauce. Kataoka S, et al.
Food Chem Toxicol 1997 May;35(5):449–57

Nidulal, a novel inducer of differentiation of human promyelocytic leukemia cells from Nidula candida. Erkel G, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1189–95

Synthesis and inhibitory activities of isochromophilone analogues against gp120–CD4 binding. Sun XL, et al.
J Antibiot (Tokyo) 1996 Jul;49(7):689–92

PF1092A, B and C, new nonsteroidal progesterone receptor ligands produced by Penicillium oblatum. II. Physico–chemical properties and structure elucidation. Tabata Y, et al. **J Antibiot (Tokyo)** 1997 Apr;50(4):309–13

Cochliobolic acid, a novel metabolite produced by Cochliobolus lunatus, inhibits binding of TGF–alpha to the EGF receptor in a SPA assay. Robinson N, et al.
J Nat Prod 1997 Jan;60(1):6–8

Chemical barriers to human immunodeficiency virus type 1 (HIV–1) infection: retrovirucidal activity of UC781, a thiocarboxanilide nonnucleoside inhibitor of HIV–1 reverse transcriptase. Borkow G, et al. **J Virol** 1997 Apr; 71(4):3023–30

Antiprogestin inhibition of cell cycle progression in T–47D breast cancer cells is accompanied by induction of the cyclin–dependent kinase inhibitor p21. Musgrove EA, et al. **Mol Endocrinol** 1997 Jan;11(1):54–66

Production of unscheduled DNA synthesis in rodent hepatocytes in vitro, but not in vivo, by 3–chloro–4–(dichloromethyl)–5–hydroxy–2[5H]–furanone (MX). Nunn JW, et al. **Mutat Res** 1997 Jan 3;373(1):67–73

Induction of Fos–like immunoreactivity in the lower brainstem and the spinal cord of the rat by intraperitoneal administration of an endogenous satiety substance, 2–buten–4–olide. Uemura N, et al. **Neurosci Lett** 1997 May 16;227(2):131–4

Anti–allergic properties of the natural PAF antagonist yangambin. Serra MF, et al. **Planta Med** 1997 Jun; 63(3):207–12

2–buten 4 olide affects feeding behavior of rhesus monkey. Mathur R, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Jan; 20(1):167–76

Bilobalide, a constituent of Ginkgo biloba L., potentiates drug–metabolizing enzyme activities in mice: possible mechanism for anticonvulsant activity against 4–O–methylpyridoxine–induced convulsions. Sasaki K, et al. **Res Commun Mol Pathol Pharmacol** 1997 Apr; 96(1):45–56

THERAPEUTIC USE

Additive effect of diloxanide furoate and metronidazole (Entamizole) in experimental mouse caecal amoebiasis. Bhopale KK, et al. **Indian J Exp Biol** 1995 Jan;33(1):73–4

Efficacy of a combined diloxanide furoate–metronidazole preparation in the treatment of amoebiasis and giardiasis. Qureshi H, et al. **J Int Med Res** 1997 May–Jun;25(3):167–70

Combination of anti–cell adhesive synthetic Arg–Gly–Asp–Ser analogue and anticancer drug doxorubicin heightens their original antimetastatic activities. Komazawa H, et al. **Oncol Res** 1995; 7(7–8):341–51

TOXICITY

Mutational spectra of Salmonella typhimurium revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water. Knasmüller S, et al. **Chem Res Toxicol** 1996 Mar;9(2):374–81

An immunoassay for TEQ screening of dioxin/furan samples: current status of assay and applications development. Harrison RO, et al. **Chemosphere** 1997 Mar–Apr; 34(5–7):915–28

Guideline values for sediments contaminated with dioxins and furans. Comber SD, et al. **Ecotoxicol Environ Saf** 1996 Nov;35(2):102–8 (41 ref.)

Toxicity of furfuryl alcohol to F344 rats and B6C3F1 mice exposed by inhalation. Irwin RD, et al. **J Appl Toxicol** 1997 May–Jun;17(3):159–69

DNA damage induced by 3–chloro–4–(dichloromethyl)–5–hydroxy–2[5H]–furanone (MX) in HL–60 cells and purified DNA in vitro. Marsteinstredet U, et al. **Mutat Res** 1997 Apr 24; 390(1–2):171–8

Activity of a nitroalkene derivative, 1–(5–bromofur–2–il)–2–bromo–2–nitroethene, in the Salmonella/microsome assay and the mouse bone marrow micronucleus test. Ramos A, et al. **Mutat Res** 1997 May 23;390(3):233–8

Food–derived heterocyclic amines potentiate the mutagenicity of a drinking water mutagen 3–chloro–4–(dichloromethyl)–5–hydroxy–2(5H)–furanone (MX). Watanabe–Akanuma M, et al. **Mutat Res** 1997 Jul 3;377(2):225–9

Furan–mediated uncoupling of hepatic oxidative phosphorylation in Fischer–344 rats: an early event in cell death. Mugford CA, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):1–11

Biliary proliferation and adaptation in furan–induced rat liver injury and carcinogenesis. Sirica AE. **Toxicol Pathol** 1996 Jan–Feb;24(1):90–9 (52 ref.)

Furan–induced liver cell proliferation and apoptosis in female B6C3F1 mice. Fransson–Steen R, et al. **Toxicology** 1997 Mar 28;118(2–3):195–204

URINE

Extraction of glyceric and glycolic acids from urine with tetrahydrofuran: utility in detection of primary hyperoxaluria. Dietzen DJ, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1315–20

Hypothesis: is accumulation of a furan dicarboxylic acid (3–carboxy–4– methyl–5–propyl–2–furanpropanoic acid) related to the neurological abnormalities in patients with renal failure? Costigan MG, et al. **Nephron** 1996; 73(2):169–73

FURAZIDIN see **FURAGIN**

FURAZOLIDONE

ADMINISTRATION & DOSAGE

Five day and ten day triple therapy (amoxicillin, furazolidone and metronidazole) in the treatment of duodenal ulcer. Zaterka S, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct;51(5):162–5

ANALYSIS

Determination of nitrofurantoin, furazolidone and furaltadone in milk by high–performance liquid chromatography with electrochemical detection. Galeano Díaz T, et al. **J Chromatogr A** 1997 Mar 14;764(2):243–8

METABOLISM

Binding of 14C–furazolidone metabolites to the muscular and hepatic proteins of trout. Law FC, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):199–209

The prevalence and possible causes of bound and extractable residues of the furazolidone metabolite 3–amino–2–oxazolidinone in porcine tissues. McCracken RJ, et al. **Food Addit Contam** 1997 Apr;14(3):287–94

Determination of the furazolidone metabolite, 3–amino–2–oxazolidinone, in porcine tissues using liquid chromatography–thermospray mass spectrometry and the occurrence of residues in pigs produced in Northern Ireland. McCracken RJ, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):87–94

PHARMACOKINETICS

Analysis of protein–bound metabolites of furazolidone and furaltadone in pig liver by high–performance liquid chromatography and liquid chromatography–mass spectrometry. Horne E, et al. **Analyst** 1996 Oct; 121(10):1463–8

PHARMACOLOGY

In vitro effect of tinidazole and furazolidone on metronidazole–resistant Trichomonas vaginalis. Narcisi EM, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1121–5

The effect of furazolidone and furaltadone on drug metabolism in rats. Ali BH, et al. **Eur J Drug Metab Pharmacokinet** 1996 Oct–Dec; 21(4):327–32

The mutational specificity of furazolidone in the lacI gene of Escherichia coli. Bertenyi KK, et al. **Mutat Res** 1996 Oct 25;357(1–2):199–208

THERAPEUTIC USE

Furazolidone, amoxycillin, bismuth triple therapy for Helicobacter pylori infection. Segura AM, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):529–32

Low cure rate of Helicobacter pylori infection with omeprazole and furazolidone dual therapy for one week. Van Zwet AA, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):533–5

Furazolidone in uncomplicated enteric fever [letter; comment] [see comments] Letha S. **Indian Pediatr** 1996 May;33(5):437. Comment on: Indian Pediatr 1995 Jan;32(1):109. Comment in: Indian Pediatr 1996 Aug;33(8):701–2.

Furazolidone in typhoid fever [letter; comment] Santhoshkumar A. **Indian Pediatr** 1996 Aug;33(8):701–2. Comment on: Indian Pediatr 1996 May;33(5):437.

[A therapeutic trial in Giardia muris infection in the mouse with metronidazole, tinidazole, secnidazole and furazolidone] Cruz CC, et al. **Rev Soc Bras Med Trop** 1997 May–Jun;30(3):223–8 (Eng. Abstr.) **(Por)**

TOXICITY

Furaltadone cytotoxicity on three cell lines in the presence or absence of DMSO: comparison with furazolidone. Stammati A, et al. **Cell Biol Toxicol** 1997 Feb;13(2):125–30

Effect of furazolidone on sister–chromatid exchanges, cell proliferation kinetics, and mitotic index in vivo and in vitro. Madrigal–Bujaidar E, et al. **J Toxicol Environ Health** 1997 May;51(1):89–96

Reversibility of furazolidone–induced changes in testes and secondary sex characters of White Leghorn cockerels. Siddique M, et al. **Vet Hum Toxicol** 1996 Dec;38(6):413–7

FURAZOSIN see **PRAZOSIN**

FURCATION DEFECTS

COMPLICATIONS

Cervical enamel projection and intermediate bifurcational ridge correlated with molar furcation involvements. Hou GL, et al. **J Periodontol** 1997 Jul;68(7):687–93

DIAGNOSIS

The reproducibility and validity of furcation measurements using a pressure–calibrated probe. Kim TS, et al. **J Clin Periodontol** 1996 Sep;23(9):826–31

EPIDEMIOLOGY

Prevalence of furcation involvements in patients referred for periodontal treatment. Svärdström G, et al. **J Clin Periodontol** 1996 Dec;23(12):1093–9

[The study of molar furcation involvements in adult periodontitis. II. Age, sex, location and prevalence] Hou GL, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Sep;12(9):514–21 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Molar furcation involvement associated with cigarette smoking in periodontal referrals. Mullally BH, et al. **J Clin Periodontol** 1996 Jul;23(7):658–61

MICROBIOLOGY

Systemic antimicrobial treatment and guided tissue regeneration. Clinical and microbiological effects in furcation defects. Mombelli A, et al. **J Clin Periodontol** 1996 Apr;23(4):386–96

PATHOLOGY

The periodontal tissues in healed degree III furcation defects. An experimental study in dogs. Araújo M, et al. **J Clin Periodontol** 1996 Jun;23(6):532–41

Bone density of class II furcation lesions treated by guided tissue regeneration. A follow–up study by digital analysis of superimposable radiographs. Dubrez B, et al. **J Clin Periodontol** 1996 Sep;23(9):882–8

Types and dimensions of root trunk correlating with diagnosis of molar furcation involvements. Hou GL, et al. **J Clin Periodontol** 1997 Feb;24(2):129–35

RADIOGRAPHY

Furcation involvement: comparison of dental radiographs and HR–CT–slices in human specimens. Fuhrmann RA, et al. **J Periodontal Res** 1997 Jul;32(5):409–18

SURGERY

A review of root resective therapy as a treatment option for maxillary molars. Hempton T, et al. **J Am Dent Assoc** 1997 Apr;128(4):449–55 (30 ref.)

Clinical evaluation of a bioabsorbable regenerative material in mandibular class II furcation therapy. Bouchard P, et al. **J Clin Periodontol** 1997 Jul;24(7):511–8

Guided tissue regeneration with non–resorbable and biodegradable barriers: 6 months results. Eickholz P, et al. **J Clin Periodontol** 1997 Feb;24(2):92–101

A clinical evaluation of a bioresorbable barrier with and without decalcified freeze–dried bone allograft in the treatment of molar furcations. Luepke PG, et al. **J Clin Periodontol** 1997 Jun;24(6):440–6

A comparison of 2 polytetrafluoroethylene membranes in guided tissue regeneration in sheep. Danesh–Meyer MJ, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 1):20–30

A prospective multi–center study evaluating periodontal regeneration for Class II furcation invasions and intrabony defects after treatment with a bioabsorbable barrier membrane: 1–year results. Becker W, et al. **J Periodontol** 1996 Jul;67(7):641–9

Periodontal regeneration in naturally occurring Class II furcation defects in beagle dogs after guided tissue regeneration with bioabsorbable barriers. Bogle G, et al. **J Periodontol** 1997 Jun;68(6):536–44

Evaluation of bioabsorbable elastin–fibrin matrix as a barrier in surgical periodontal treatment. Da Costa–Noble R, et al. **J Periodontol** 1996 Sep;67(9):927–34

Evidence for healing of class II and III furcations after GTR therapy: digital subtraction and clinical measurements. Eickholz P, et al. **J Periodontol** 1997 Jul;68(7):636–44

Comparison of a bioabsorbable GTR barrier to a non–absorbable barrier in treating human class II furcation defects. A muiti–center parallel design randomized single–blind trial. Garrett S, et al. **J Periodontol** 1997 Jul; 68(7):667–75

Guided periodontal tissue regeneration in Class II furcation defects following treatment with a synthetic bioabsorbable barrier. Hürzeler MB, et al. **J Periodontol** 1997 May; 68(5):498–505

Comparison of bioabsorbable laminar bone membrane and non–resorbable ePTFE membrane in mandibular furcations. Scott TA, et al. **J Periodontol** 1997 Jul; 68(7):679–86

Multi–center evaluation of bioabsorbable collagen membrane for guided tissue regeneration in human Class II furcations. Yukna CN, et al. **J Periodontol** 1996 Jul;67(7):650–7

THERAPY

Evaluation of anionic collagen membranes in the treatment of class II furcation lesions: an histometric analysis in dogs. Cirelli JA, et al. **Biomaterials** 1997 Sep;18(18):1227–34

A comparative study of a surgical method and scaling and root planing using the Odontoson. Forabosco A, et al. **J Clin Periodontol** 1996 Jul;23(7):611–4

A combined surgical and orthodontic treatment of Class III furcations. Report of a case. Mayer T, et al. **J Clin Periodontol** 1997 Apr;24(4):233–6

Systemic antimicrobial treatment and guided tissue regeneration. Clinical and microbiological effects in furcation defects. Mombelli A, et al. **J Clin Periodontol** 1996 Apr;23(4):386–96

FURFURAL see **FURALDEHYDE**

FURNITURE see **INTERIOR DESIGN AND FURNISHINGS**

FUROCOUMARINS see **PSORALENS**

FUROSEMIDE

Female premenopausal tophaceous gout induced by long–term diuretic abuse. Hayem G, et al. **J Rheumatol** 1996 Dec;23(12):2166–7

ADMINISTRATION & DOSAGE

The effect of aerosolized furosemide in infants with chronic lung disease. Ohki Y, et al. **Acta Paediatr** 1997 Jun; 86(6):656–60

Persistent potassium problems. Lilley LL, et al. **Am J Nurs** 1997 Jun;97(6):14

Pulmonary function changes after nebulised and intravenous frusemide in ventilated premature infants. Prabhu VG, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F32–5

Renal Doppler ultrasonography in children with equivocal obstructive uropathy: effect of intravenous normal saline fluid load and frusemide. Shokeir AA, et al. **Br J Urol** 1997 Aug;80(2):313–8

A double–blind, cross–over comparison of the effects of a loop diuretic and a dopamine receptor agonist as first line therapy in patients with mild congestive heart failure [see comments] Andrews R, et al. **Eur Heart J** 1997 May; 18(5):852–7. Comment in: Eur Heart J 1997 May;18(5):712–4.

The acute effects of intravenous frusemide on the renal kallikrein kinin system in man: relationship to dose. Bicknell C, et al. **Immunopharmacology** 1996 May;32(1–3):122–4

Intermittent administration of furosemide versus continuous infusion in the postoperative management of children following open heart surgery. Klinge JM, et al. **Intensive Care Med** 1997 Jun;23(6):693–7

Antihypertensive action of non–natriuretic doses of furosemide in Dahl salt–sensitive rats. Haugan K, et al. **J Hypertens** 1997 Jul;15(7):775–82

Partial ureteral obstruction: effect of intravenous normal saline and furosemide upon the renal resistive index. Shokeir AA, et al. **J Urol** 1997 Mar;157(3):1074–7

Renal Doppler ultrasound in children with obstructive

uropathy: effect of intravenous normal saline fluid load and furosemide. Shokeir AA, et al. **J Urol** 1996 Oct; 156(4):1455–8

Effect of furosemide oral solution versus furosemide tablets on diuresis and electrolytes in patients with moderate congestive heart failure. Cohen N, et al. **Miner Electrolyte Metab** 1996;22(4):248–52

Pulmonary effect of inhaled furosemide in ventilated infants with severe bronchopulmonary dysplasia. Kugelman A, et al. **Pediatrics** 1997 Jan;99(1):71–5

Rapid response to inhaled frusemide in severe acute asthma with hypercapnia. Tanigaki T, et al. **Respiration** 1997; 64(1):108–10

Effect of bolus injection versus continuous infusion of furosemide on diuresis and neurohormonal activation in patients with severe congestive heart failure. Aaser E, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):361–7

[Formulation and in vitro examination of furosemide-containing suppositories and preliminary experiences of their clinical use] Regdon G, et al. **Acta Pharm Hung** 1997 Jan;67(1):19–23 (Eng. Abstr.) **(Hun)**

[Statistical analysis of recovery from sudden deafness among treatment groups] Kitamura K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Nov;99(11):1676–83 (Eng. Abstr.) **(Jpn)**

[Effect of the administration of furosemide on the fluid filtration rate and in pulmonary artery pressure in isolated lungs of rabbits] Rosales Romero AM, et al. **Acta Cient Venez** 1994;45(2):102–5 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Frusemide-induced bullous pemphigoid. Panayiotou BN, et al. **Br J Clin Pract** 1997 Jan–Feb;51(1):49–50

Failure of loop diuretics to induce nursing sickness in mink at weaning. Hansen O, et al. **Can J Vet Res** 1996 Oct; 60(4):277–80

Increased toxicity of high-dose furosemide versus low-dose dopamine in the treatment of refractory congestive heart failure. Cotter G, et al. **Clin Pharmacol Ther** 1997 Aug; 62(2):187–93

Bullous pemphigoid after treatment with furosemide. Koch CA, et al. **Cutis** 1996 Nov;58(5):340–4 (21 ref.)

Effects of furosemide on intracochlear oxygen tension in the guinea pig. Liu JX, et al. **Eur Arch Otorhinolaryngol** 1996; 253(6):367–70

Furosemide-associated fever: drug fever or dehydration fever? [letter; comment] Garty BZ. **J Pediatr** 1997 Mar; 130(3):499–500. Comment on: J Pediatr 1995 May;126(5 Pt 1):817–8.

[Drug-induced autoimmune disease due to furosemide?] Sandstede J, et al. **Dtsch Med Wochenschr** 1997 Jun 20; 122(25–26):843 **(Ger)**

[Hepatitis and furosemide (letter)] Bellido Casado J, et al. **Rev Esp Enferm Dig** 1996 Nov;88(11):813–4 **(Spa)**

ANALYSIS

Determination of furosemide in plasma and urine by gas chromatography/mass spectrometry. Ptáček P, et al. **Arzneimittelforschung** 1996 Mar;46(3):277–83

Determination of piretanide and furosemide in pharmaceuticals and human urine by high-performance liquid chromatography with amperometric detection. Barroso MB, et al. **J Chromatogr B Biomed Appl** 1996 Jan 26;675(2):303–12

Flow-injection spectrophotometric determination of frusemide or sulphathiazole in pharmaceuticals. García MS, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):453–9

BLOOD

Determination and pharmacokinetics of a furosemide-amiloride drug combination. Jankowski A, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):383–91

High-performance liquid chromatography using on-line solid-phase extraction: determination of furosemide in human serum. Okuda T, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):343–8

CHEMISTRY

Don't ignore details of drug-compatibility reports [letter] Kohut J 3rd, et al. **Am J Health Syst Pharm** 1996 Oct 1;53(19):2339

DIAGNOSTIC USE

Abnormal reabsorption of Na+/Cl- by the thiazide-inhibitable transporter of the distal convoluted tubule in Gitelman's syndrome. Colussi G, et al. **Am J Nephrol** 1997;17(2):103–11

Mechanism of the impaired natriuretic response to frusemide during sodium depletion: a micropuncture study in rats. Shirley DG, et al. **Clin Sci (Colch)** 1996 Sep;91(3):299–305

Consensus on diuresis renography for investigating the dilated upper urinary tract. Radionuclides in Nephrourology Group. Consensus Committee on Diuresis Renography. O'Reilly P, et al. **J Nucl Med** 1996 Nov; 37(11):1872–6

Impaired response to furosemide in hyperprostaglandin E syndrome: evidence for a tubular defect in the loop of Henle. Köckerling A, et al. **J Pediatr** 1996 Oct; 129(4):519–28

[Furosemide: upright test] Niimura S, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:325–8 (2 ref.) **(Jpn)**

METABOLISM

Determination of the binding of a beta 2-blocker drug, frusemide and ceftriaxone to serum proteins by capillary zone electrophoresis. Quaglia MG, et al. **J Pharm Biomed Anal** 1997 May;15(8):1033–9

PHARMACOKINETICS

Bioavailability and diuretic effect of furosemide following administration of tablets and retarded capsules to human subjects. Yagi N, et al. **Biol Pharm Bull** 1996 Apr; 19(4):616–22

Effect of food on the absorption of frusemide and bumetanide in man. McCrindle JL, et al. **Br J Clin Pharmacol** 1996 Dec;42(6):743–6

The influence of moderate hypoalbuminaemia on the renal metabolism and dynamics of furosemide in the rabbit. Pichette V, et al. **Br J Pharmacol** 1996 Nov;119(5):885–90

Pharmacokinetic and pharmacodynamic interaction of single oral doses of valsartan and furosemide. Bindschedler M, et al. **Eur J Clin Pharmacol** 1997;52(5):371–8

Determination of bioequivalence of two furosemide preparations; the effect of high doses of furosemide on some pharmacokinetic parameters. Wolf-Coporda A, et al. **Int J Clin Pharmacol Res** 1996;16(4–5):83–8

Pharmacokinetics and pharmacodynamics of torasemide and furosemide in patients with diuretic resistant ascites. Gentilini P, et al. **J Hepatol** 1996 Oct;25(4):481–90

The effects of submaximal exercise on the pharmacokinetics of furosemide in horses. Dyke TM, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):164–6

Prolonged-release hydroxypropyl methylcellulose matrix tablets of furosemide for administration to dogs. Smal J, et al. **J Vet Pharmacol Ther** 1996 Dec;19(6):482–7

Variable furosemide absorption and poor predictability of response in elderly patients. Murray MD, et al. **Pharmacotherapy** 1997 Jan–Feb;17(1):98–106

Effect of a hepatoprotective agent, YH-439, on the pharmacokinetics of furosemide and azosemide in rats. Kim SH, et al. **Res Commun Mol Pathol Pharmacol** 1996 Feb; 91(2):233–44

PHARMACOLOGY

Furosemide-induced airway relaxation in guinea pigs: relation to Na-K-2Cl cotransporter function. Lavallee SL, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L211–6

Taurine reabsorption by a carrier interacting with furosemide in short and long Henle's loops of rat nephrons. Silbernagl S, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):F205–13

Dilatory effect of furosemide on rat tracheal arterioles and venules. Corboz MR, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):478–83

Effect of craniectomy/durotomy alone and in combination with hyperventilation, diuretics, and corticosteroids on intracranial pressure in clinically normal dogs. Bagley RS, et al. **Am J Vet Res** 1996 Jan;57(1):116–9

Effect of furosemide and subsequent intravenous fluid administration on right atrial pressure of splenectomized horses. Rivas LJ, et al. **Am J Vet Res** 1997 Jun;58(6):632–5

Effects of frusemide and hypoxia on the pulmonary vascular bed in man. Kiely DG, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):309–13

Effects of frusemide on the urinary excretion of dopamine and 5-hydroxytryptamine in normal man. Li Kam Wa TC, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):522–4

Natriuretic efficiency of frusemide as a consequence of drug input rate. Wakelkamp M, et al. **Br J Clin Pharmacol** 1997 May;43(5):481–91

Furosemide interactions with brain GABAA receptors. Korpi ER, et al. **Br J Pharmacol** 1997 Mar;120(5):741–8

Expression of Fos in rat brain in relation to sodium appetite: furosemide and cerebroventricular renin. Rowland NE, et al. **Brain Res** 1996 Jul 22;728(1):90–6

Effects of the angiotensin converting enzyme (ACE) inhibitor, captopril, on the cardiovascular, endocrine, and renal responses to furosemide in conscious lambs. de Wildt SN, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):263–70

Renal nerves do not modulate the renal and endocrine responses to furosemide in conscious lambs. Smith FG, et al. **Can J Physiol Pharmacol** 1996 May;74(5):614–20

Direct vascular effects of furosemide in humans. Pickkers P, et al. **Circulation** 1997 Sep 16;96(6):1847–52

Pharmacokinetic and pharmacodynamic interaction of single oral doses of valsartan and furosemide. Bindschedler M, et al. **Eur J Clin Pharmacol** 1997;52(5):371–8

Inhibition of human thiopurine methyltransferase by furosemide, bendroflumethiazide and trichlormethiazide. Lysaa RA, et al. **Eur J Clin Pharmacol** 1996;49(5):393–6

Mucociliary clearance during and after isocapnic hyperventilation with dry air in the presence of frusemide. Daviskas E, et al. **Eur Respir J** 1996 Apr;9(4):716–24

Effect of frusemide on Cl- channel in rat peritoneal mast cells. Meyer G, et al. **Eur Respir J** 1996 Dec;9(12):2461–7

Decrease of ischemic injury to the isolated perfused rat liver by loop diuretics. Fiegen RJ, et al. **Hepatology** 1997 Jun; 25(6):1425–31

Captopril increases renin release stimulated by furosemide and hypotension in isolated perfused guinea pig kidneys. Mokuda O, et al. **Horm Metab Res** 1996 May;28(5):227–9

The acute effects of intravenous frusemide on the renal kallikrein kinin system in man: relationship to dose. Bicknell C, et al. **Immunopharmacology** 1996 May;32(1–3):122–4

Furosemide: much more than a diuretic. Singhi SC. **Indian Pediatr** 1996 Oct;33(10):886–7

Inhibition of rat peritoneal mast cell exocytosis by frusemide: a study with different secretagogues. Stenton GR, et al. **Inflamm Res** 1996 Oct;45(10):508–12

Dopamine does not enhance furosemide-induced natriuresis in patients with congestive heart failure. Vargo DL, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1032–7

Effect of furosemide on hyperpnea-induced airway obstruction, injury, and microvascular leakage. Freed AN, et al. **J Appl Physiol** 1996 Dec;81(6):2461–7

Furosemide reduces accumulated oxygen deficit in horses during brief intense exertion. Hinchcliff KW, et al. **J Appl Physiol** 1996 Oct;81(4):1550–4

Comparison of chronic neutral endopeptidase inhibition and furosemide in an ovine model of heart failure. Rademaker MT, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):439–46

Pharmacokinetic interactions of ceftazidime and frusemide. Chrysos G, et al. **J Chemother** 1995 Nov;7 Suppl 4:107–10

Role of kinins in basal and furosemide-stimulated renin secretion. Chiu N, et al. **J Hypertens** 1997 May; 15(5):517–21

Effects of furosemide on distortion product otoacoustic emissions and on neuronal responses in the anteroventral cochlear nucleus. Rübsamen R, et al. **J Neurophysiol** 1995 Oct;74(4):1628–38

Furosemide decreases cerebrospinal fluid formation during desflurane anesthesia in rabbits. Artru AA, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):166–74

The renal clearance of unchanged cisplatin during furosemide and mannitol diuresis is dependent on glomerular filtration rate in rats. Nagai N, et al. **J Pharm Sci** 1996 Jul;85(7):720–4

Effects of renal papillary-medullary lesion on the antihypertensive effect of furosemide and development of salt-sensitive hypertension in Dahl-S rats. Haugan K, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1415–22

Molecular effects of M17055, furosemide and thiazide on cardiac hypertrophy of spontaneously hypertensive rats. Kim S, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):983–90

Intracellular pH and calcium in frog early distal tubule: effects of transport inhibitors. Cooper GJ, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):49–59

Furosemide-sensitive calcium rise induced by GABAA-receptor stimulation in cultures of embryonic rat striatal neurons. Ikeda Y, et al. **Jpn J Pharmacol** 1997 Jun; 74(2):165–9

Ketoconazole inhibits organic osmolyte efflux and induces heat shock proteins in rat renal medulla. Ohno A, et al. **Kidney Int Suppl** 1996 Dec;57:S110–8

Furosemide-induced bronchodilation in the rat bronchus: evidence of a role for prostaglandins. Almirall JJ, et al. **Lung** 1997;175(3):155–63

Blunted furosemide action on cerebellar GABAA receptors in ANT rats selectively bred for high alcohol sensitivity. Mäkelä R, et al. **Neuropharmacology** 1996; 35(9–10):1493–502

Functional renal maturation in rat neonates after prenatal exposure to furosemide. Mallie JP, et al. **Pediatr Nephrol** 1996 Aug;10(4):458–60

Pharmacometric analysis of the effect of furosemide on suramin pharmacokinetics. Piscitelli SC, et al. **Pharmacotherapy** 1997 May–Jun;17(3):431–7

Metabolic effects of the combination of furosemide and captopril in rat. López R, et al. **Rev Esp Fisiol** 1996 Jun; 52(2):89–94

Decreased hypoprothrombinemic effect of warfarin associated with furosemide. Laizure SC, et al. **Ther Drug Monit** 1997 Jun;19(3):361–3

Effect of mannitol and polyethylene glycol on the action of frusemide during renal storage and transplantation. Lane NJ, et al. **Transplantation** 1996 Sep 15;62(5):575–82

Influence of furosemide on the ureteric damage in a rat model of obstructive uropathy. Chuang YH, et al. **Urol Int** 1997; 58(3):137–44

[The effect of furosemide and valium on band 3 protein anion transport function in chronic respiratory failure patients] Yang X, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Dec; 18(6):369–71, 384 (Eng. Abstr.) **(Chi)**

[Effect of 8-week administration of enalapril plus additional 2-week administration of furosemide on heart rate and exocrine pancreas secretion in dogs] Niebergall-Roth E, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov–Dec; 109(11–12):414–8 (Eng. Abstr.) **(Ger)**

[Can the recurrence of nasal polyposis be prevented? A new therapeutic approach] Passali D, et al. **Acta Otorhinolaryngol Ital** 1995 Apr;15(2):91–100 (Eng. Abstr.) **(Ita)**

[Effect of furosemide on transperitoneal transport of guanidine derivatives: in vitro studies] Czyżewska K, et al. **Przegl Lek** 1996;53(12):854–7 (Eng. Abstr.) **(Pol)**

THERAPEUTIC USE

Comparison of diuretic effects of glycerol with furosemide after transurethral prostatectomy. Tsao CM, et al. **Acta Anaesthesiol Sin** 1996 Dec;34(4):185–90

The effect of aerosolized furosemide in infants with chronic lung disease. Ohki Y, et al. **Acta Paediatr** 1997 Jun;

86(6):656–60
Comparative study of inhaled amiloride and inhaled furosemide in exercise-induced asthma. Larramendi CH, et al. **Allergol Immunopathol (Madr)** 1997 Mar–Apr; 25(2):85–90
The effect of atrial natriuretic peptide on pulmonary acid injury in a pig model. Tanabe M, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1351–6
Effect of inhaled furosemide and cromolyn on bronchoconstriction induced by ultrasonically nebulized distilled water in asthmatic subjects. Siffredi M, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):238–43
Effects of furosemide, torasemide and controlled fluid intake on perfluoroisobutene induced lung oedema and mortality. Onyefuru LC, et al. **Arzneimittelforschung** 1996 Mar; 46(3):283–7
Long-term diuretic therapy in patients with chronic renal failure. Cakalaroski K, et al. **Clin Nephrol** 1997 Jul; 48(1):56–8
Furosemide does not prevent indomethacin-induced renal side effects in preterm infants. Romagnoli C, et al. **Clin Pharmacol Ther** 1997 Aug;62(2):181–6
Combination of high-dose furosemide and hydrochlorothiazide in the treatment of refractory congestive heart failure. Dormans TP, et al. **Eur Heart J** 1996 Dec;17(12):1867–74
Should frusemide be prescribed after packed red cell transfusions in the newborn? Betremieux P, et al. **Eur J Pediatr** 1997 Feb;156(2):88–9
Furosemide versus thiazide in Gordon syndrome [letter; comment] Semmekrot B, et al. **Eur J Pediatr** 1996 Jul; 155(7):621. Comment on: Eur J Pediatr 1995 Oct;154(10):870.
Comparison of oral and intravenous hydration and diuretic, choice for protecting cisplatin induced nephrotoxicity. Dana R, et al. **Indian J Cancer** 1996 Dec;33(4):168–70
Comparative efficacy of inhaled furosemide and disodium cromoglycate in the treatment of exercise-induced asthma in children. Melo RE, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):204–9
Furosemide given by inhalation ameliorates acute exacerbation of asthma. Ono Y, et al. **J Asthma** 1997; 34(4):283–9
High-dose furosemide alters gas exchange in a model of acute lung injury. Waugh JB, et al. **J Crit Care** 1996 Sep; 11(3):129–37
Therapeutic effects of diuretics and paracentesis on lung function in patients with non-alcoholic cirrhosis and tense ascites. Chang SC, et al. **J Hepatol** 1997 Apr;26(4):833–8
Na+,K+,Cl- cotransport is a marker of distal tubular function in essential hypertension. Righetti M, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1775–8
Pulmonary effect of inhaled furosemide in ventilated infants with severe bronchopulmonary dysplasia. Kugelman A, et al. **Pediatrics** 1997 Jan;99(1):71–5
Pulmonary effect of inhaled furosemide in ventilated infants with severe bronchopulmonary dysplasia [letter] Prabhu VG. **Pediatrics** 1997 Sep;100(3 Pt 1):420–1
Cardiovascular collapse due to intravenous verapamil in two patients with persistent atrial tachycardia. Lawrenson JB, et al. **S Afr Med J** 1995 Nov;85(11 Suppl):1236–8
Effect of inhaled frusemide and oral indomethacin on the airway response to hypertonic saline challenge in asthmatic subjects. Rodwell LT, et al. **Thorax** 1997 Jan;52(1):59–66
[Can the recurrence of nasal polyposis be prevented? A new therapeutic approach] Passali D, et al. **Acta Otorhinolaryngol Ital** 1995 Apr;15(2):91–100 (Eng. Abstr.) **(Ita)**
[Comparison between torasemide and furosemide in the treatment of ascites in cirrhotic patients] Marelli A, et al. **Minerva Med** 1997 Mar;88(3):109–15 (Eng. Abstr.) **(Ita)**
[The antioxidative properties of furosemide in renal ischemia] Lebedev AA, et al. **Eksp Klin Farmakol** 1996 Jul–Aug; 59(4):28–30 (Eng. Abstr.) **(Rus)**

TOXICITY

Salt supplementation, growth, and nephrocalcinosis in the furosemide-treated weanling rat. Gratny LL, et al. **Biol Neonate** 1997;71(1):37–45
Bromobenzene and furosemide hepatotoxicity: alterations in glutathione, protein thiols, and calcium. Grewal KK, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):257–64
Auditory brainstem response (ABR) and effects of furosemide on ABR in conscious F344 rats. Ozaki H, et al. **J Toxicol Sci** 1996 Aug;21(3):167–75

URINE

Micellar electrokinetic chromatography as a fast screening method for the determination of the doping agents furosemide and piretanide in urine. Lalljie SP, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):71–8

FURROW KERATITIS see **KERATITIS, DENDRITIC**

FURSEMIDE see **FUROSEMIDE**

FURSULTIAMIN

PHARMACOLOGY

The effect of a thiamin derivative on exercise performance. Webster MJ, et al. **Eur J Appl Physiol** 1997;75(6):520–4

FURUNCULOSIS

see related
CARBUNCLE

DIAGNOSIS

Picture of the month. Folliculitis, furunculosis, and carbuncles. Eley CD, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):625–6
Furunculosis. Chan KL, et al. **Ear Nose Throat J** 1997 Mar; 76(3):126
Index of suspicion. Case 1. Nasal furuncle. Conners GP. **Pediatr Rev** 1996 Nov;17(11):405–6
[The characteristics of managing and treating patients with suppurative-inflammatory processes of the maxillofacial area and diabetes mellitus] Ivasenko PI, et al. **Stomatologiia (Mosk)** 1996;Spec No:58–9 **(Rus)**

EPIDEMIOLOGY

[The seasonal patterns of surgical morbidity of the maxillofacial area under the climatic conditions of the city of Derbent] Bakhmudov BR. **Stomatologiia (Mosk)** 1997; 76(1):60–3 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

The associated microflora to the larvae of human bot fly Dermatobia hominis L. Jr. (Diptera: Cuterebridae) and its furuncular lesions in cattle. Sancho E, et al. **Mem Inst Oswaldo Cruz** 1996 May–Jun;91(3):293–8

PARASITOLOGY

An unexpected surprise in a common boil. Johnston M, et al. **J Emerg Med** 1996 Nov–Dec;14(6):779–81

THERAPY

[The endogenous intoxication syndrome and the procedure for detoxication therapy in the treatment of suppurative diseases of the face and neck] Gubin MA, et al. **Stomatologiia (Mosk)** 1996;75(4):23–7 (Eng. Abstr.) **(Rus)**

VETERINARY

Experiences with different vaccines and vaccination procedures to control furunculosis in sea-reared Atlantic salmon. Lillehaug A. **Acta Vet Scand Suppl** 1996;90:57–62
Immunization with bacterial antigens: furunculosis. Ellis AE. **Dev Biol Stand** 1997;90:107–16 (60 ref.)

FUSARIC ACID

Fusaric acid and pathogenic interactions of corn and non-corn isolates of Fusarium moniliforme, a nonobligate pathogen of corn. Bacon CW, et al. **Adv Exp Med Biol** 1996;392:175–91 (72 ref.)

BIOSYNTHESIS

Production of fusaric acid by Fusarium species. Bacon CW, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4039–43

PHARMACOLOGY

Fusaric acid increases melatonin levels in the weanling rat and in pineal cell cultures. Rimando AM, et al. **J Toxicol Environ Health** 1997 Feb 21;50(3):275–84

TOXICITY

Developmental toxic effects of fusaric acid in CD1 mice. Reddy RV, et al. **Bull Environ Contam Toxicol** 1996 Sep; 57(3):354–60
Lactational passage of fusaric acid from the feed of nursing dams to the neonate rat and effects on pineal neurochemistry in the F1 and F2 generations at weaning. Porter JK, et al. **J Toxicol Environ Health** 1996 Oct 11; 49(2):161–75

FUSARITOXIN see **T-2 TOXIN**

FUSARIUM

Mycotic keratitis by Fusarium moniliforme. Pagliarusco A, et al. **Acta Ophthalmol Scand** 1995 Dec;73(6):560–2
Proceedings of an American Chemical Society Symposium on Fumonisins in Food. Anaheim, California, April 2–7, 1995. **Adv Exp Med Biol** 1996;392:1–399
Regulatory effects of saponins in the pathogenesis of root rots in cereal crops. Kintia PK, et al. **Adv Exp Med Biol** 1996;405:75–82
A sudden death syndrome induced in poults and chicks fed diets containing Fusarium fujikuroi with known concentrations of moniliformin. Reams RY, et al. **Avian Dis** 1997 Jan–Mar;41(1):20–35
Fusarium, a significant emerging pathogen in patients with hematologic malignancy: ten years' experience at a cancer center and implications for management. Boutati EI, et al. **Blood** 1997 Aug 1;90(3):999–1008 (111 ref.)
Uncommon clinical patterns of Fusarium nail infection: report of three cases. Baran R, et al. **Br J Dermatol** 1997 Mar;136(3):424–7 (23 ref.)
Occurrence of deoxynivalenol and Fusarium graminearum in Argentinian wheat. Dalcero A, et al. **Food Addit Contam** 1997 Jan;14(1):11–4
Natural occurrence of trichothecenes and zearalenone in Korean and imported beers. Shim WB, et al. **Food Addit Contam** 1997 Jan;14(1):1–5
Cardiovascular effects of fumonisins in swine. Smith GW, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):169–72
Dietary Fusarium moniliforme culture material induces in vitro tumor necrosis factor-alpha like activity in the sera of swine. Guzman RE, et al. **Immunopharmacol Immunotoxicol** 1997 May;19(2):279–89
Disseminated Fusarium infection in an immunocompromised host. Antony SJ. **Int J Dermatol** 1996 Nov;35(11):815–6
Fungaemia due to Fusarium spp. in cancer patients. Krcmery V Jr, et al. **J Hosp Infect** 1997 Jul;36(3):223–8 (19 ref.)
Invasive Fusarium infections: a retrospective survey of 31 cases. The French 'Groupe d'Etudes des Mycoses Opportunistes' GEMO. Hennequin C, et al. **J Med Vet Mycol** 1997 Mar–Apr;35(2):107–14
Cutaneous presentation of Fusarium solani infection in a bone marrow transplant recipient. Child FJ, et al. **J R Soc Med** 1996 Nov;89(11):647–8
Chronic consumption of fumonisins derived from Fusarium moniliforme culture material: clinical and pathologic effects in swine. Guzman RE, et al. **J Vet Diagn Invest** 1997 Apr; 9(2):216–8
Disseminated fusariosis. Repiso T, et al. **Pediatr Dermatol** 1996 Mar–Apr;13(2):118–21
Treatment of Fusarium peritonitis in a peritoneal dialysis patient [letter] Giacchino F, et al. **Perit Dial Int** 1997 Jul–Aug;17(4):403–4
Effects of feeding Fusarium moniliforme culture material, containing known levels of fumonisin B1, in the young turkey poult. Ledoux DR, et al. **Poult Sci** 1996 Dec; 75(12):1472–8
Lethal disseminated Fusarium infection with sinus involvement in the immunocompromised host: case report and review of the literature. Rombaux P, et al. **Rhinology** 1996 Dec;34(4):237–41 (27 ref.)
[Resolution of a disseminated infection by Fusarium solani in a patient with acute promyelocytic leukemia and granulocytopenia secondary to chemotherapy by the combined use of G-CSF and liposomal amphotericin B (letter)] Sancho JM, et al. **Med Clin (Barc)** 1997 Jun 21; 109(4):156–7 **(Spa)**
[A cutaneous ulcer induced by fungi of the genus Fusarium] Negroni R, et al. **Rev Soc Bras Med Trop** 1997 Jul–Aug; 30(4):323–8 (18 ref.) (Eng. Abstr.) **(Spa)**

CHEMISTRY

Respiratory stimulation and generation of superoxide radicals in Pseudomonas aeruginosa by fungal naphthoquinones. Haraguchi H, et al. **Arch Microbiol** 1997 Jan;167(1):6–10
Neuropharmacological studies on Fusarium toxins–III: Neurochemical investigations on total toxin extracts from F. moniliforme and F. oxysporum. Ganguli S, et al. **Indian J Exp Biol** 1996 Jun;34(6):531–4
Neuropharmacological studies on Fusarium toxins—I: Total toxin extract from Fusarium moniliforme. Ganguli S, et al. **Indian J Exp Biol** 1996 May;34(5):408–17
Neuropharmacological studies on Fusarium toxins—II: Total toxin extract from F. oxysporum. Ganguli S, et al. **Indian J Exp Biol** 1996 May;34(5):418–26
Determination of the Fusarium mycotoxin beauvericin at micrograms/kg levels in corn by high-performance liquid chromatography with diode-array detection. Krska R, et al. **J Chromatogr A** 1996 Oct 11;746(2):233–8
Oxysporidinone: a novel, antifungal N-methyl-4-hydroxy-2-pyridone from Fusarium oxysporum. Breinhold J, et al. **J Nat Prod** 1997 Jan; 60(1):33–5
Fusaricide, a new cytotoxic N-hydroxypyridone from Fusarium sp. McBrien KD, et al. **J Nat Prod** 1996 Dec; 59(12):1151–3
Structure and absolute stereochemistry of fusaproliferin, a toxic metabolite from Fusarium proliferatum. Santini A, et al. **J Nat Prod** 1996 Feb;59(2):109–12
Effect of gamma-irradiation on the natural occurrence of Fusarium mycotoxins in wheat, flour and bread. Aziz NH, et al. **Nahrung** 1997 Feb;41(1):34–7

CLASSIFICATION

Clustering of trichothecene-producing Fusarium strains determined from 28S ribosomal DNA sequences. Mulè G, et al. **Appl Environ Microbiol** 1997 May;63(5):1843–6

DRUG EFFECTS

Fungicidal activity of cecropin A. DeLucca AJ, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):481–3
N-acetylcysteine inhibits germination of conidia and growth of Aspergillus spp. and Fusarium spp. De Lucca AJ, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1274–6
Effects of incubation temperature, inoculum size, and time of reading on broth microdilution susceptibility test results for amphotericin B fgainst Fusarium. Pujol I, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):808–11
Crop improvement and disease suppression by a Bacillus spp. SR2 from pea nut rhizosphere. Kumar BS. **Indian J Exp Biol** 1996 Aug;34(8):794–8
In-vitro antifungal susceptibility of clinical and

environmental Fusarium spp. strains. Pujol I, et al. **J Antimicrob Chemother** 1997 Feb;39(2):163–7

Influence of a subinhibitory dose of antifungal fatty acids from Sporothrix flocculosa on cellular lipid composition in fungi. Benyagoub M, et al. **Lipids** 1996 Oct; 31(10):1077–82

ENZYMOLOGY

Kinetic studies of Fusarium solani cutinase in a gas/solid system. Lamare S, et al. **Ann N Y Acad Sci** 1996 Oct 12; 799:563–8

Optical resolution of pantolactone by a novel fungal enzyme, lactonohydrolase. Shimizu S, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:650–8

Identification of a novel pelD gene expressed uniquely in planta by Fusarium solani f. sp. pisi (Nectria haematococca, mating type VI) and characterization of its protein product as an endo–pectate lyase. Guo W, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):305–12

Fungal P450nor: expression in Escherichia coli and site–directed mutageneses at the putative distal region. Okamoto N, et al. **Arch Biochem Biophys** 1997 Jan 15; 337(2):338–44

Role of lysine, tryptophan and calcium in the beta–elimination activity of a low–molecular–mass pectate lyase from Fusarium moniliformae. Rao MN, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):159–64

Trichodiene synthase. Probing the role of the highly conserved aspartate–rich region by site–directed mutagenesis. Cane DE, et al. **Biochemistry** 1996 Sep 24; 35(38):12369–76

Structure of the Fusarium oxysporum endoglucanase I with a nonhydrolyzable substrate analogue: substrate distortion gives rise to the preferred axial orientation for the leaving group. Sulzenbacher G, et al. **Biochemistry** 1996 Dec 3; 35(48):15280–7

The alkaline xylanase III from Fusarium oxysporum F3 belongs to family F/10. Christakopoulos P, et al. **Carbohydr Res** 1997 Aug 7;302(3–4):191–5

Purification and characterisation of a major xylanase with cellulase and transferase activities from Fusarium oxysporum. Christakopoulos P, et al. **Carbohydr Res** 1996 Aug 19;289:91–104

Crystallization, preliminary diffraction and electron paramagnetic resonance studies of a single crystal of cytochrome P450nor. Park SY, et al. **FEBS Lett** 1997 Jul 28;412(2):346–50

Purification and characterization of an exo–polygalacturonase from the tomato vascular wilt pathogen Fusarium oxysporum f.sp. lycopersici. Di Pietro A, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):295–9

N–terminal processing and amino acid sequence of two isoforms of nitric oxide reductase cytochrome P450nor from Fusarium oxysporum. Nakahara K, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1082–7

Identification of the naturally occurring flavin of nitroalkane oxidase from fusarium oxysporum as a 5–nitrobutyl–FAD and conversion of the enzyme to the active FAD–containing form. Gadda G, et al. **J Biol Chem** 1997 Feb 28;272(9):5563–70

Atomic resolution (1.0 A) crystal structure of Fusarium solani cutinase: stereochemical analysis. Longhi S, et al. **J Mol Biol** 1997 May 16;268(4):779–99

Mutagenesis of endopolygalacturonase from Fusarium moniliforme: histidine residue 234 is critical for enzymatic and macerating activities and not for binding to polygalacturonase–inhibiting protein (PGIP). Caprari C, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):617–24

Amino acid sequence of peptidyl–prolyl isomerase a of Fusarium sporotrichioides. Chow LP, et al. **Nat Toxins** 1996;4(4):149–55

Partial purification and characterization of an esterase from Fusarium sporotrichioides. Park JJ, et al. **Nat Toxins** 1996; 4(3):108–16

The effect of different pectic growth substrates on beta–glucosidase in Fusarium oxysporum f. sp. radicis lycopersici: partial purification and characterization. Patiño B, et al. **New Microbiol** 1997 Jul;20(3):241–6

Dynamics of Fusarium solani cutinase investigated through structural comparison among different crystal forms of its variants. Longhi S, et al. **Proteins** 1996 Dec;26(4):442–58

[Isolation of protoplasts from vegetable tissues using extracellular lytic enzymes from fusarium oxysporum f.sp. melonis] Alconada TM, et al. **Rev Argent Microbiol** 1995 Oct–Dec;27(4):191–7 (Eng. Abstr.) **(Spa)**

GENETICS

Linear mitochondrial plasmids of Fusarium oxysporum contain genes with sequence similarity to genes encoding a reverse transcriptase from Neurospora spp. Kistler HC, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3311–3

Clustering of trichothecene–producing Fusarium strains determined from 28S ribosomal DNA sequences. Mulè G, et al. **Appl Environ Microbiol** 1997 May;63(5):1843–6

Identification of a novel pelD gene expressed uniquely in planta by Fusarium solani f. sp. pisi (Nectria haematococca, mating type VI) and characterization of its protein product as an endo–pectate lyase. Guo W, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):305–12

A homologous and self–replicating system for efficient transformation of Fusarium oxysporum. Garcia–Pedrajas MD, et al. **Curr Genet** 1996 Jan;29(2):191–8

How do highly branched (colonial) mutants of Fusarium graminearum A3/5 arise during Quorn myco–protein fermentations? Wiebe MG, et al. **Microbiology** 1996 Mar; 142 (Pt 3):525–32

Stress–induced rearrangement of Fusarium retrotransposon sequences. Anaya N, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):89–94

Two divergent intragenomic rDNA ITS2 types within a monophyletic lineage of the fungus Fusarium are nonorthologous. O'Donnell K, et al. **Mol Phylogenet Evol** 1997 Feb;7(1):103–16

Relationships among pathogenic and nonpathogenic isolates of the intergenic spacer region of the ribosomal DNA. Appel DJ, et al. **Mol Plant Microbe Interact** 1996 Mar;9(2):125–38

GROWTH & DEVELOPMENT

Fusaric acid and pathogenic interactions of corn and non–corn isolates of Fusarium moniliforme, a nonobligate pathogen of corn. Bacon CW, et al. **Adv Exp Med Biol** 1996;392:175–91 (72 ref.)

The effects of fungal competition on colonization of barley grain by Fusarium sporotrichioides on T–2 toxin formation. Ramakrishna N, et al. **Food Addit Contam** 1996 Nov–Dec; 13(8):939–48

First survey on the natural occurrence of Fusarium mycotoxins in Bulgarian wheat. Vrabcheva T, et al. **Mycopathologia** 1996;136(1):47–52

IMMUNOLOGY

Immunohistologic identification of Aspergillus spp. and other hyaline fungi by using polyclonal fluorescent antibodies. Kaufman L, et al. **J Clin Microbiol** 1997 Sep;35(9):2206–9

ISOLATION & PURIFICATION

Occurrence of Fusarium and fumonisins on food grains and in foods. Bullerman LB. **Adv Exp Med Biol** 1996;392:27–38 (31 ref.)

Fusarium keratitis following the use of topical antibiotic–corticosteroid therapy in traumatised eyes. Wong TY, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):862–5 (19 ref.)

Elevated plasma glycosaminoglycans in chickens with tibial dyschondroplasia induced by a Fusarium oxysporum isolate. Chu Q, et al. **Avian Dis** 1996 Jul–Sep;40(3):715–9

Disseminated Fusarium sp. infection affecting the brain of a child after bone marrow transplantation. Bleggi–Torres LF, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1013–5

Photo Quiz. Disseminated fusariosis. Clancy CJ, et al. **Clin Infect Dis** 1996 Nov;23(5):963; 1150–1

Natural contamination of spring barley with group A trichothecene mycotoxins in south–eastern Poland. Perkowski J, et al. **Food Addit Contam** 1997 May–Jun; 14(4):321–5

Fusarium solani fungemia in a bone marrow transplant recipient. Fang CT, et al. **J Formos Med Assoc** 1997 Feb; 96(2):129–33

Potted plants as a potential reservoir of Fusarium species [letter] Rogues AM, et al. **J Hosp Infect** 1997 Feb; 35(2):163–4

Mycoflora and fumonisin–producing strains of Fusarium moniliforme in mixed poultry feeds and component raw material. Castellá G, et al. **Mycopathologia** 1996; 133(3):181–4

Analysis of Fusarium causing dermal toxicosis in marram grass planters. Snijders CH, et al. **Mycopathologia** 1996; 135(2):119–28

Fusarium toxins in wheat harvested during six years in an area of southwest Germany. Müller HM, et al. **Nat Toxins** 1997;5(1):24–30

Case study of bovine dermatitis caused by oat straw infected with Fusarium sporotrichioides. Wu W, et al. **Vet Rec** 1997 Apr 12;140(15):399–400

METABOLISM

NMR structural studies of fumonisin B1 and related compounds from Fusarium moniliforme. Blackwell BA, et al. **Adv Exp Med Biol** 1996;392:75–91 (35 ref.)

Liquid culture methods for the production of fumonisin. Keller SE, et al. **Adv Exp Med Biol** 1996;392:205–12 (23 ref.)

Biosynthesis of fumonisin and aal derivatives by Alternaria and Fusarium in laboratory culture. Mirocha CJ, et al. **Adv Exp Med Biol** 1996;392:213–24

Analytical determination of fumonisins and other metabolites produced by Fusarium moniliforme and related species on corn. Plattner RD, et al. **Adv Exp Med Biol** 1996;392:57–64

Production of fusaric acid by Fusarium species. Bacon CW, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4039–43

Duckling toxicity and the production of fumonisin and moniliformin by isolates in the A and E mating populations of Gibberella fujikuroi (Fusarium moniliforme). Leslie JF, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1182–7

Characterization and regulation of glycine transport in Fusarium oxysporum var. lini. Castro IM, et al. **Braz J Med Biol Res** 1996 Aug;29(8):949–55

The 24–kDa protein from Fusarium oxysporum f.sp. erythroxyli: occurrence in related fungi and the effect of growth medium on its production. Bailey BA, et al. **Can J Microbiol** 1997 Jan;43(1):45–55

Production of trichothecenes and zearalenone by isolates of Fusarium spp. from Argentinian maize. Molto GA, et al. **Food Addit Contam** 1997 Apr;14(3):263–8

Purification and characterization of extracellular penicillin V acylase from Fusarium sp. SKF 235. Sudhakaran VK, et al. **Hindustan Antibiot Bull** 1995 Feb–Nov;37(1–4):9–15

Halymecins, new antimicroalgal substances produced by fungi isolated from marine algae. Chen C, et al. **J Antibiot (Tokyo)** 1996 Oct;49(10):998–1005

Assessment of immunochemical methods for the analysis of trichothecene mycotoxins in naturally occurring moldy corn. Park JJ, et al. **J AOAC Int** 1996 Mar–Apr; 79(2):465–71

Biosynthesis of the trichothecene 3–acetyldeoxynivalenol. Is isotrichodermin a biosynthetic precursor? Zamir LO, et al. **J Biol Chem** 1996 Nov 1;271(44):27353–9

Determination of mycotoxins produced by Fusarium isolates from banana fruits by capillary gas chromatography and high–performance liquid chromatography. Jiménez M, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):363–72

Isolation and characterization of two new type C fumonisins produced by Fusarium oxysporum. Seo JA, et al. **J Nat Prod** 1996 Nov;59(11):1003–5

Microbial transformations of steroids—X. Cytochromes P–450 11 alpha–hydroxylase and C17–C20 lyase and a 1–ene dehydrogenase transform steroids in Nectria haematococca. Ahmed F, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):337–49

First survey on the natural occurrence of Fusarium mycotoxins in Bulgarian wheat. Vrabcheva T, et al. **Mycopathologia** 1996;136(1):47–52

Fumonisin B1 production by Fusarium proliferatum strain M5991 in a modified Myro liquid medium. Dantzer WR, et al. **Nat Toxins** 1996;4(4):168–73

Biosynthesis of gibberellic acid (GA3) and mycotoxins by F. moniliforme sheldon and other species of Liseola section. Latus–Ziętkiewicz D, et al. **Nat Toxins** 1996;4(5):228–33

Comparison of detection methods for trichothecenes produced by Fusarium sporotrichioides on fodder and grains at different air humidities. Nikulin M, et al. **Nat Toxins** 1996;4(3):117–21

Inhibition of gluconeogenesis in cultured chicken embryo hepatocytes by Fusarium metabolites. Wu W, et al. **Nat Toxins** 1997;5(2):80–5

Ultraweak luminescence generated by sweet potato and Fusarium oxysporum interactions associated with a defense response. Makino T, et al. **Photochem Photobiol** 1996 Dec; 64(6):953–6

[A survey of moniliformin in rice and corn sampled from the areas with and without Keshan disease] Yu S, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):144–7 (Eng. Abstr.) **(Chi)**

PATHOGENICITY

Duckling toxicity and the production of fumonisin and moniliformin by isolates in the A and E mating populations of Gibberella fujikuroi (Fusarium moniliforme). Leslie JF, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1182–7

Relationships among pathogenic and nonpathogenic isolates of Fusarium oxysporum based on the partial sequence of the intergenic spacer region of the ribosomal DNA. Appel DJ, et al. **Mol Plant Microbe Interact** 1996 Mar;9(2):125–38

Effect of disruption of a cutinase gene (cutA) on virulence and tissue specificity of Fusarium solani f. sp. cucurbitae race 2 toward Cucurbita maxima and C. moschata. Crowhurst RN, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):355–68

Overexpression of an endogenous thionin enhances resistance of Arabidopsis against Fusarium oxysporum. Epple P, et al. **Plant Cell** 1997 Apr;9(4):509–20

PHYSIOLOGY

Introductory biology of Fusarium moniliforme. Leslie JF. **Adv Exp Med Biol** 1996;392:153–64 (64 ref.)

Water and temperature relations and microconidial germination of Fusarium moniliforme and Fusarium proliferatum from maize. Marín S, et al. **Can J Microbiol** 1996 Oct;42(10):1045–50

The influence of genotype and environment on the physiological and metabolic diversity of Fusarium compactum. Talbot NJ, et al. **Fungal Genet Biol** 1996 Dec; 20(4):254–67

Effects of the infection of toxigenic fungi and an antagonistic Streptomyces strain on wheat spikes. Fulgueira CL, et al. **Mycopathologia** 1996;134(3):137–42

Counteracting Fusarium proliferatum toxicity in broiler chicks by supplementing drinking water with Poultry Aid Plus. Wu W. **Poult Sci** 1997 Mar;76(3):463–8

RADIATION EFFECTS

The influence of gamma radiation and substrate on mycotoxin production by Fusarium culmorum IMI 309344. O'Neill K, et al. **J Appl Bacteriol** 1996 Nov;81(5):518–24

FUSED TEETH

COMPLICATIONS

Impaction of a mandibular permanent lateral incisor associated with fused primary teeth: a case report. Hsiao

CK, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):377–81

ETIOLOGY

Dental twinning [letter; comment] Marshall KF, et al. **Br Dent J** 1997 May 24;182(10):372. Comment on: Br Dent J 1997 Mar 8;182(5):185–8.

PATHOLOGY

Transposition and fusion in the primary dentition: report of case. Duncan K, et al. **ASDC J Dent Child** 1996 Sep–Oct; 63(5):365–7

Dental twinning [see comments] Chaudhry SI, et al. **Br Dent J** 1997 Mar 8;182(5):185–8. Comment in: Br Dent J 1997 May 24;182(10):372.

RADIOGRAPHY

An unusual radiographic finding [letter] Manlow CJ, et al. **Br Dent J** 1997 Aug 9;183(3):87

SURGERY

Nonendodontic coronal resection of fused and geminated vital teeth. A new technique. David HT, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):501–5

FUSIDIC ACID

ADMINISTRATION & DOSAGE

Oral treatment of Staphylococcus spp. infected orthopaedic implants with fusidic acid or ofloxacin in combination with rifampicin. Drancourt M, et al. **J Antimicrob Chemother** 1997 Feb;39(2):235–40

ADVERSE EFFECTS

Acute renal failure in association with fusidic acid [letter] Davies JP, et al. **Int J Clin Pract** 1997 Jun;51(4):264

ANALYSIS

A comparative evaluation of three detectors in the HPLC analysis of sodium fusidate. Gatti R, et al. **Farmaco** 1996 Feb;51(2):115–9

CHEMISTRY

Aggregation behavior of sodium fusidate in aqueous solution. Coello A, et al. **J Pharm Sci** 1994 Jun;83(6):828–32

PHARMACOKINETICS

Pharmacokinetic investigation of fusidic acid 1% viscous eye drops in healthy volunteers. Thorn P, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):9–12

The pharmacokinetics and protein-binding of fusidic acid in patients with severe renal failure requiring either haemodialysis or continuous ambulatory peritoneal dialysis. Brown NM, et al. **J Antimicrob Chemother** 1997 Jun; 39(6):803–9

PHARMACOLOGY

Improved survival and antagonistic effect of sodium fusidate on tumor necrosis factor alpha in a neonatal mouse model of endotoxin shock. Genovese F, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1733–5

Effect of fusidic acid on pancreatic islet allograft rejection. Mendola JF, et al. **Cell Transplant** 1997 Jan–Feb;6(1):39–45

Disk diffusion interpretive criteria for fusidic acid susceptibility testing of staphylococci by the National Committee for Clinical Laboratory Standards method. Coutant C, et al. **Diagn Microbiol Infect Dis** 1996 May; 25(1):9–13

A novel fusidic acid resistance gene from Streptomyces lividans 66 encodes a highly specific esterase. von der Haar B, et al. **Microbiology** 1997 Mar;143 (Pt 3):867–74

THERAPEUTIC USE

Topical lomefloxacin twice daily compared with fucidic acid in acute bacterial conjunctivitis. Malminiemi K, et al. **Acta Ophthalmol Scand** 1996 Jun;74(3):280–4

Fusidic acid and insulin-dependent diabetes mellitus. Nicoletti F, et al. **Autoimmunity** 1996;24(3):187–97 (45 ref.)

Ciprofloxacin ophthalmic solution in the treatment of conjunctivitis and blepharitis: a comparison with fusidic acid. Adenis JP, et al. **Eur J Ophthalmol** 1996 Oct–Dec; 6(4):368–74

Mupirocin-resistant methicillin-resistant Staphylococcus aureus [letter; comment] Ambler JE, et al. **J Hosp Infect** 1996 Jan;32(1):71–82. Comment on: J Hosp Infect 1994 Sep;28(1):75–8.

FUSION PROTEINS, BCR-ABL

see related
PHILADELPHIA CHROMOSOME

An antisense Bcr-Abl phosphodiester-tailed methylphosphonate oligonucleotide reduces the growth of chronic myeloid leukaemia patient cells by a non-antisense mechanism. Smetsers TF, et al. **Br J Haematol** 1997 Feb; 96(2):377–81

ANALYSIS

Detection of bcr-abl transcripts in Philadelphia chromosome-positive acute lymphoblastic leukemia after marrow transplantation. Radich J, et al. **Blood** 1997 Apr 1;89(7):2602–9

Residual leukemia and immunomagnetic bead purging in patients with BCR-ABL-positive acute lymphoblastic leukemia. Atta J, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):541–8

G-CSF stimulation of donor myelopoiesis prolongs survival of relapsed BCR-ABL-positive acute lymphoblastic leukemia after allogeneic marrow transplantation. Keil F, et al. **Bone Marrow Transplant** 1996 Sep;18(3):655–7

Molecular demonstration of BCR/ABL fusion in two cases with chronic myeloproliferative disorder carrying variant Philadelphia t(14;22)(q32;q11). Mantzourani M, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):82–7

Analysis of the BCR-ABL protein in Philadelphia chromosome-positive adult acute lymphocytic leukemia. Bseiso AW, et al. **Leukemia** 1997 Sep;11(9):1583–7

Monitoring the efficiency of interferon-alpha therapy in chronic myelogenous leukemia (CML) patients by competitive polymerase chain reaction. Hochhaus A, et al. **Leukemia** 1997 Apr;11 Suppl 3:541–4

ANTAGONISTS & INHIBITORS

Multi-unit anti-BCR-ABL ribozyme therapy in chronic myelogenous leukemia. Leopold LH, et al. **Leuk Lymphoma** 1996 Aug;22(5–6):365–73 (56 ref.)

BIOSYNTHESIS

HLA-DR1-restricted bcr-abl (b3a2)-specific CD4+ T lymphocytes respond to dendritic cells pulsed with b3a2 peptide and antigen-presenting cells exposed to b3a2 containing cell lysates. Mannering SI, et al. **Blood** 1997 Jul 1;90(1):290–7

Generation of dendritic cells expressing bcr-abl from CD34-positive chronic myeloid leukemia precursor cells. Smit WM, et al. **Hum Immunol** 1997 Apr 1;53(2):216–23

Mosaicicm in bcr-abl protein expression in B cells in chronic myelogenous leukemia. Weissinger EM, et al. **Int J Cancer** 1996 Nov 27;68(5):577–82

p130CAS forms a signaling complex with the adapter protein CRKL in hematopoietic cells transformed by the BCR/ABL oncogene. Salgia R, et al. **J Biol Chem** 1996 Oct 11;271(41):25198–203

Pathophysiology of CML: do defects in integrin function contribute to the premature circulation and massive expansion of the BCR/ABL positive clone? Verfaillie CM, et al. **J Lab Clin Med** 1997 Jun;129(6):584–91 (52 ref.)

BLOOD

Association between b3a2 BCR/ABL fusion and chronic myeloid leukemia with thrombocythemic onset: fortuitous or real? [letter; comment] Kwong YL. **Leukemia** 1997 Apr; 11(4):617–8. Comment on: Leukemia 1996 Jul;10(7):1241–3.

CHEMISTRY

Intramolecular interactions of the regulatory domains of the Bcr-Abl kinase reveal a novel control mechanism. Nam HJ, et al. **Structure** 1996 Sep 15;4(9):1105–14

CLASSIFICATION

Relationship between BCR/ABL fusion proteins and leukemia phenotype [letter; comment] Emilia G, et al. **Blood** 1997 May 15;89(10):3889. Comment on: Blood 1996 Oct 1;88(7):2375–84.

The diversity of BCR-ABL fusion proteins and their relationship to leukemia phenotype [editorial; comment] [see comments] Melo JV. **Blood** 1996 Oct 1;88(7):2375–84 . Comment on: Blood 1996 Oct 1;88(7):2410–4. Comment in: Blood 1997 May 15;89(10):3889.

DRUG EFFECTS

Treatment of Philadelphia leukemia in severe combined immunodeficient mice by combination of cyclophosphamide and bcr/abl antisense oligodeoxynucleotides [see comments] Skorski T, et al. **J Natl Cancer Inst** 1997 Jan 15;89(2):124–33. Comment in: J Natl Cancer Inst 1997 Jan 15;89(2):107–9.

Signal transduction-based strategies for the treatment of chronic myelogenous leukemia. Senechal K, et al. **Mol Med Today** 1996 Dec;2(12):503–9 (43 ref.)

GENETICS

Are ABL and BCR imprinted? Fink M, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):233–7 (24 ref.)

Comparison of bcr-abl protein expression and Philadelphia chromosome analyses in chronic myelogenous leukemia patients. Guo JQ, et al. **Am J Clin Pathol** 1996 Oct; 106(4):442–8

BCR-ABL rearrangement in adult T-cell acute lymphoblastic leukemia [letter] Colleoni GW, et al. **Am J Hematol** 1996 Dec;53(4):277–8

Southern technique and cytogenetics are complementary and must be used together in the evaluation of Ph1, M-BCR positive chronic myeloid leukemia (CML) patients treated with alpha interferon (IFN-alpha). Steegmann JL, et al. **Am J Hematol** 1996 Nov;53(3):169–74

Transcriptional activation of human LIM-HOX gene, hLH-2, in chronic myelogenous leukemia is due to a cis-acting effect of Bcr-Abl. Wu HK, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):806–12

Transcriptional activation of human LIM-HOX gene hLH-2 in chronic myelogenous leukemia is due to a cis-acting effect of Bcr-Abl. Wu HK, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):742–7

Specificity of ribozymes against the bcr-abl mRNAs in vitro. James HA, et al. **Biochem Soc Trans** 1996 Aug;24(3):409S

Selection of myeloid progenitors lacking BCR/ABL mRNA in chronic myelogenous leukemia patients after in vitro treatment with the tyrosine kinase inhibitor genistein. Carlo-Stella C, et al. **Blood** 1996 Oct 15;88(8):3091–100

A BCR-ABL(p190) fusion gene made by homologous recombination causes B-cell acute lymphoblastic leukemias in chimeric mice with independence of the endogenous bcr product. Castellanos A, et al. **Blood** 1997 Sep 15; 90(6):2168–74

A new case of chronic myeloid leukemia with c3/a2 BCR/ABL junction. Is it really a distinct disease? [letter; comment] Mittre H, et al. **Blood** 1997 Jun 1;89(11):4239–41 . Comment on: Blood 1996 Oct 1;88(7):2410–4.

Neutrophilic-chronic myeloid leukemia: a distinct disease with a specific molecular marker (BCR/ABL with C3/A2 junction) [see comments] [published erratum appears in Blood 1997 Jun 1;89(11):4244] Pane F, et al. **Blood** 1996 Oct 1;88(7):2410–4. Comment in: Blood 1996 Oct 1;88(7):2375–84. Comment in: Blood 1997 Apr 15;89(8):3064. Comment in: Blood 1997 Jun 1;89(11):4239–41.

Improved sensitivity of BCR-ABL detection: a triple-probe three-color fluorescence in situ hybridization system. Sinclair PB, et al. **Blood** 1997 Aug 15;90(4):1395–402

Blood on filter paper as a readily available source of bcr-abl rearranged mRNA [letter] Suttorp M, et al. **Blood** 1997 Aug 15;90(4):1713–5

Antisense oligodeoxyribonucleotides suppress hematologic cell growth through stepwise release of deoxyribonucleotides. Vaerman JL, et al. **Blood** 1997 Jul 1;90(1):331–9

BCR-ABL transcript with an e19a2 (c3a2) junction in classical chronic myeloid leukemia [letter; comment] Wilson G, et al. **Blood** 1997 Apr 15;89(8):3064. Comment on: Blood 1996 Oct 1;88(7):2410–4.

Detection of BCR/ABL RNA transcripts using the polymerase chain reaction is highly predictive for relapse in patients transplanted with unrelated marrow grafts for chronic myelogenous leukaemia. Drobyski WR, et al. **Br J Haematol** 1997 Aug;98(2):458–66

Heterogenous expression of bcr-abl fusion mRNA in a patient with Philadelphia-chromosome-positive acute lymphoblastic leukaemia. Inokuchi K, et al. **Br J Haematol** 1997 Jun;97(4):837–40

p190bcr/abl rearrangement in myelodysplastic syndromes: two reports and review of the literature. Lesesve JF, et al. **Br J Haematol** 1996 Nov;95(2):372–5 (34 ref.)

Prognostic significance of BCR-ABL rearrangement in chronic myeloid leukemia. Colleoni GW, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1307–10

Philadelphia chromosome in chronic myelogenous leukemia: confirmation of cytogenetic diagnosis in Ph positive and negative cases by fluorescence in situ hybridization. Acar H, et al. **Cancer Genet Cytogenet** 1997 Apr;94(2):75–8

Some observations on fluorescence in situ hybridization evaluation of chronic myelocytic leukemia. Chen Z, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):1–3

Deletion of exon b3 of the BCR gene in CML: easy breakpoint mapping by a two-round PCR. Cigudosa JC, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):71–3

A Ph-negative chronic myeloid leukemia patient with a non-classical BCR-ABL rearrangement characterized by fluorescence in situ hybridization. Estop AM, et al. **Cancer Genet Cytogenet** 1997 Jul 15;96(2):174–6

Quantitative RT-PCR combined with time-resolved fluorometry for determination of BCR-ABL mRNA. Bortolin S, et al. **Clin Chem** 1996 Dec;42(12):1924–9

Molecular status of individual CFU-GM colonies derived from chemotherapy-mobilised peripheral blood stem cells in chronic myeloid leukaemia. Broughton CM, et al. **Genes Chromosomes Cancer** 1997 Apr;18(4):292–8

Factors influencing the false positive and negative rates of BCR-ABL fluorescence in situ hybridization. Chase A, et al. **Genes Chromosomes Cancer** 1997 Apr;18(4):246–53

Generation of dendritic cells expressing bcr-abl from CD34-positive chronic myeloid leukemia precursor cells. Smit WM, et al. **Hum Immunol** 1997 Apr 1;53(2):216–23

Detection of the Mbcr/abl translocation in chronic myeloid leukemia by fluorescence in situ hybridization: comparison with conventional cytogenetics and implications for minimal residual disease detection. Garcia-Isidoro M, et al. **Hum Pathol** 1997 Feb;28(2):154–9

Acute leukaemia in chimeric mice by a bcr-ABLp190 fusion gene made by homologous recombination. Castellanos A, et al. **Int J Dev Biol** 1996;Suppl 1:283S

BCR/ABL induces multiple abnormalities of cytoskeletal function. Salgia R, et al. **J Clin Invest** 1997 Jul 1; 100(1):46–57

Presence of the bcr/abl rearrangement in a patient with chronic neutrophilic leukaemia. Christopoulos C, et al. **J Clin Pathol** 1996 Dec;49(12):1013–5

FUSION PROTEINS, BCR-ABL

Clinical use of the bcr/abl probe test in the evaluation of chronic myeloid leukemia patients. Yazici H, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):105–9

Harnessing the power of antisense technology for combination chemotherapy [editorial; comment] Narayanan R. **J Natl Cancer Inst** 1997 Jan 15;89(2):107–8 . Comment on: J Natl Cancer Inst 1997 Jan 15;89(2):124–33.

Clinical and biological aspects of Philadelphia-negative/BCR-negative chronic myeloid leukemia. Costello R, et al. **Leuk Lymphoma** 1997 Apr; 25(3–4):225–32 (45 ref.)

Expression of BCR–ABL, E2A–PBX1, and MLL–AF4 fusion transcripts in newly diagnosed children with acute lymphoblastic leukemia: a Children's Cancer Group initiative. Gaynon PS, et al. **Leuk Lymphoma** 1997 Jun; 26(1–2):57–65

Sequential interphase FISH analysis of m-BCR/ABL chimeric gene-positive cells in Ph-positive acute myeloid leukemia. Onishi R, et al. **Leuk Lymphoma** 1997 Jun; 26(1–2):185–91

Routine fluorescence in situ hybridization analysis for detection of BCR–ABL rearrangement in myeloproliferative disorders [letter] Sabatino G, et al. **Leuk Res** 1997 Jun;21(6):581–3

Recurring proviral integration suggests a role for proto-oncogene activation in thymomas induced with Mo-MuLV-rescued BCR/ABL virus. Clark SS. **Leukemia** 1997 Jul;11(7):1026–33

Effect of bcr-abl oligodeoxynucleotides on the clonogenic growth of chronic myelogenous leukaemia cells. de Fabritiis P, et al. **Leukemia** 1997 Jun;11(6):811–9

BCR/ABL-negative progenitors are enriched in the adherent fraction of CD34+ cells circulating in the blood of chronic phase chronic myeloid leukemia patients. Grand FH, et al. **Leukemia** 1997 Sep;11(9):1486–92

Good correlation between RT-PCR analysis and relapse in Philadelphia (Ph1)-positive acute lymphoblastic leukemia (ALL). Preudhomme C, et al. **Leukemia** 1997 Feb; 11(2):294–8

Lack of BCR/ABL rearrangement in acute and chronic T cell leukemias [letter] Simões BP, et al. **Leukemia** 1997 Sep; 11(9):1595–6

The BCR/ABL oncogene alters interaction of the adapter proteins CRKL and CRK with cellular proteins. Uemura N, et al. **Leukemia** 1997 Mar;11(3):376–85

Abnormal chromatin clumping in granulocytes in a case of Ph1-negative, BCR-ABL rearrangement positive, haematologically atypical chronic myeloid leukaemia (CML). Tertian G, et al. **Nouv Rev Fr Hematol** 1995; 37(4):245–7

Comparison of the specificities and catalytic activities of hammerhead ribozymes and DNA enzymes with respect to the cleavage of BCR–ABL chimeric L6 (b2a2) mRNA. Kuwabara T, et al. **Nucleic Acids Res** 1997 Aug 1; 25(15):3074–81

Tyrosine phosphorylation of p120cbl in BCR/abl transformed hematopoietic cells mediates enhanced association with phosphatidylinositol 3-kinase. Jain SK, et al. **Oncogene** 1997 May 8;14(18):2217–28

[Chronic myelogenous leukemia expressing two bcr-abl chimeric mRNA; a case report] Hashimoto S, et al. **Rinsho Ketsueki** 1997 Jan;38(1):72–4 (Eng. Abstr.) **(Jpn)**

[Fluctuating molecular remission in patients with chronic myeloid leukemia with long term complete cytogenetic response after alpha interferon treatment] Casado LF, et al. **Med Clin (Barc)** 1997 Sep 6;109(7):251–5 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Recognition of BCR–ABL positive leukemic blasts by human CD4+ T cells elicited by primary in vitro immunization with a BCR–ABL breakpoint peptide. Bosch GJ, et al. **Blood** 1996 Nov 1;88(9):3522–7

Oncogene products represent potential targets of tumor vaccines. Tuttle TM. **Cancer Immunol Immunother** 1996 Nov;43(3):135–41 (62 ref.)

Peptides derived from the whole sequence of BCR–ABL bind to several class I molecules allowing specific induction of human cytotoxic T lymphocytes. Buzyn A, et al. **Eur J Immunol** 1997 Aug;27(8):2066–72

METABOLISM

Relationship between the type of BCR–ABL rearrangement and bone marrow histopathological features in chronic myeloid leukemia. Colleoni GW, et al. **Acta Oncol** 1997; 36(3):313–5

Altered physical state of p210bcr-abl in tyrphostin AG957-treated K562 cells. Kaur G, et al. **Anticancer Drugs** 1996 Nov;7(8):815–24

Inhibition of Grb2 and Crkl proteins results in growth inhibition of Philadelphia chromosome positive leukemic cells. Tari AM, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):383–8

Direct binding of CRKL to BCR–ABL is not required for BCR–ABL transformation. Heaney C, et al. **Blood** 1997 Jan 1;89(1):297–306

BCR–ABL-positive lymphoblastoid cells display limited proliferative capacity under in vitro culture conditions. Spencer A, et al. **Br J Haematol** 1996 Sep;94(4):654–8

Regulation of the oncogenic activity of BCR–ABL by a tightly bound substrate protein RIN1. Afar DE, et al. **Immunity** 1997 Jun;6(6):773–82

Interaction of BCR–ABL with the retinoblastoma protein in Philadelphia chromosome-positive cell lines. Miyamura T, et al. **Int J Hematol** 1997 Feb;65(2):115–21

Interactions of CBL with BCR–ABL and CRKL in BCR–ABL-transformed myeloid cells. Bhat A, et al. **J Biol Chem** 1997 Jun 27;272(26):16170–5

The CRKL adaptor protein transforms fibroblasts and functions in transformation by the BCR–ABL oncogene. Senechal K, et al. **J Biol Chem** 1996 Sep 20; 271(38):23255–61

Regulation of Bcl-2 gene expression by BCR–ABL is mediated by Ras. Sánchez-García I, et al. **J Mol Biol** 1997 Mar 28;267(2):225–8

BCR/abl leads to the constitutive activation of Stat proteins, and shares an epitope with tyrosine phosphorylated Stats. Frank DA, et al. **Leukemia** 1996 Nov;10(11):1724–30

Hypersensitivity of bcr-abl-positive progenitors to hyperthermia in patients with chronic myeloid leukemia. Thijsen SF, et al. **Leukemia** 1997 Oct;11(10):1762–8

P210 Bcr-Abl interacts with the interleukin-3 beta c subunit and constitutively activates Jak2. Wilson-Rawls J, et al. **Leukemia** 1997 Apr;11 Suppl 3:428–31

Retroviral vector design for gene therapy of cancer: specific inhibition and tagging of BCR–ABLp190 cells. García-Hernández B, et al. **Mol Med** 1996 Jan;2(1):124–33

Tyrosine 207 in CRKL is the BCR/ABL phosphorylation site. de Jong R, et al. **Oncogene** 1997 Feb 6;14(5):507–13

ts BCR–ABL kinase activation confers increased resistance to genotoxic damage via cell cycle block. Nishii K, et al. **Oncogene** 1996 Nov 21;13(10):2225–34

Blastic transformation of p53-deficient bone marrow cells by p210bcr/abl tyrosine kinase. Skorski T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13137–42

PHARMACOLOGY

The influence of class II HLA type on the lymphoproliferative response of normal donors to a bcr-abl fusion peptide. MacIntyre AR, et al. **Exp Hematol** 1996 Sep;24(11):1307–11

P210 and P190(BCR/ABL) induce the tyrosine phosphorylation and DNA binding activity of multiple specific STAT family members. Ilaria RL Jr, et al. **J Biol Chem** 1996 Dec 6;271(49):31704–10

PHYSIOLOGY

Integrin-mediated regulation of hematopoiesis: do BCR/ABL-induced defects in integrin function underlie the abnormal circulation and proliferation of CML progenitors? Verfaillie CM, et al. **Acta Haematol** 1997; 97(1–2):40–52 (160 ref.)

Purification and molecular cloning of SH2- and SH3-containing inositol polyphosphate-5-phosphatase, which is involved in the signaling pathway of granulocyte-macrophage colony-stimulating factor, erythropoietin, and Bcr-Abl. Odai H, et al. **Blood** 1997 Apr 15;89(8):2745–56

Sequences within the first exon of BCR inhibit the activated tyrosine kinases of c-Abl and the Bcr-Abl oncoprotein. Liu J, et al. **Cancer Res** 1996 Nov 15;56(22):5120–4

BCR–ABL induces neurite-like structures and BCR lacking the SH2-binding domain induces cell rounding in PC12 cells. Maru Y, et al. **Exp Cell Res** 1996 Dec 15; 229(2):438–45

A coiled-coil tetramerization domain of BCR–ABL is essential for the interactions of SH2-containing signal transduction molecules. Tauchi T, et al. **Hum Cell** 1996 Dec;9(4):333–6 (18 ref.)

BCR/ABL regulation of PI-3 kinase activity. Calabretta B, et al. **Leuk Lymphoma** 1996 Nov;23(5–6):473–6 (41 ref.)

New understanding of the pathogenesis of CML: a prototype of early neoplasia. Clarkson BD, et al. **Leukemia** 1997 Sep; 11(9):1404–28 (179 ref.)

The BCR–ABL tyrosine kinase inhibits apoptosis by activating a Ras-dependent signaling pathway. Cortez D, et al. **Oncogene** 1996 Dec 19;13(12):2589–94

p210BCR/ABL, p190BCR/ABL, and TEL/ABL activate similar signal transduction pathways in hematopoietic cell lines. Okuda K, et al. **Oncogene** 1996 Sep 19;13(6):1147–52

FUSION PROTEINS, ENV-ONC see **ONCOGENE PROTEINS, FUSION**

FUSION PROTEINS, GAG-FOS-FOX see **ONCOGENE PROTEINS V-FOS**

FUSION PROTEINS, GAG-JUN see **ONCOGENE PROTEIN P65(GAG-JUN)**

FUSION PROTEINS, GAG-ONC

GENETICS

Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts. Martin A, et al. **Oncogene** 1997 Apr 3; 14(13):1571–80

FUSION PROTEINS, GAG-POL

A p6Pol-protease fusion protein is present in mature particles of human immunodeficiency virus type 1. Almog N, et al. **J Virol** 1996 Oct;70(10):7228–32

GENETICS

Replication-competent retrovirus produced by a 'split-function' third generation amphotropic packaging cell line. Chong H, et al. **Gene Ther** 1996 Jul;3(7):624–9

Determination of tissue distribution of an intramuscular plasmid vaccine using PCR and in situ DNA hybridization. Winegar RA, et al. **Hum Gene Ther** 1996 Nov 10; 7(17):2185–94

IMMUNOLOGY

Determination of tissue distribution of an intramuscular plasmid vaccine using PCR and in situ DNA hybridization. Winegar RA, et al. **Hum Gene Ther** 1996 Nov 10; 7(17):2185–94

METABOLISM

Removal of human immunodeficiency virus type 1 (HIV-1) protease inhibitors from preparations of immature HIV-1 virions does not result in an increase in infectivity or the appearance of mature morphology. Humphrey RW, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1017–23

FUSION PROTEINS, RECOMBINANT see **RECOMBINANT FUSION PROTEINS**

FUSION PROTEINS, VIRAL see **VIRAL FUSION PROTEINS**

FUSOBACTERIUM

Fusobacterium osteomyelitis and pyarthrosis: a classic case of Lemierre's syndrome. Stahlman GC, et al. **J Pediatr Orthop** 1996 Jul-Aug;16(4):529–32

DRUG EFFECTS

Oral species of Fusobacterium from human and environmental samples. Gaetti-Jardim E Jr, et al. **J Dent** 1996 Sep;24(5):345–8

ENZYMOLOGY

6-phospho-alpha-D-glucosidase from Fusobacterium mortiferum: cloning, expression, and assignment to family 4 of the glycosylhydrolases. Bouma CL, et al. **J Bacteriol** 1997 Jul;179(13):4129–37

Phospho-beta-glucosidase from Fusobacterium mortiferum: purification, cloning, and inactivation by 6-phosphoglucono-delta-lactone. Thompson J, et al. **J Bacteriol** 1997 Mar;179(5):1636–45

ISOLATION & PURIFICATION

Oral species of Fusobacterium from human and environmental samples. Gaetti-Jardim E Jr, et al. **J Dent** 1996 Sep;24(5):345–8

FUSOBACTERIUM INFECTIONS

Uvulitis caused by anaerobic bacteria. Brook I. **Pediatr Emerg Care** 1997 Jun;13(3):221

[Peritonsillar and neck abscess with septicemia during interferon therapy in a patient with chronic hepatitis C] Shirahama M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):295–9 **(Jpn)**

COMPLICATIONS

Impaired vocal cord mobility in the setting of acute suppurative thyroiditis. Boyd CM, et al. **Head Neck** 1997 May;19(3):235–7

A young woman with a sore throat, septicaemia, and respiratory failure. Vohra A, et al. **Lancet** 1997 Sep 27; 350(9082):928

Fusobacterium necrophorum meningitis associated with cerebral vessel thrombosis. Larsen PD, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):330–1

DIAGNOSIS

Fever, sore throat, and pulmonary infiltrates in a 20-year-old man. Venkataraman MT, et al. **Chest** 1997 Jul;112(1):268–70

Recurrent vertebral osteomyelitis and psoas abscess caused by Streptococcus constellatus and Fusobacterium nucleatum in a patient with atrial septal defect and an occult dental infection. Wang TD, et al. **Scand J Infect Dis** 1996;28(3):309–10

Lemierre syndrome. Barker J, et al. **South Med J** 1996 Oct; 89(10):1021–3

[Necrotizing mucosal ulcers cause by anaerobic bacteria. Fusiform bacterial and spirochete infections] Hollandt JH, et al. **HNO** 1996 Dec;44(12):694–8 (Eng. Abstr.) **(Ger)**

[A young man with sore throat and infection] Egger M, et al. **Schweiz Med Wochenschr** 1997 May 17;127(20):861–3 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

The use of an experimental metritis model to study antibiotic distribution in genital tract secretions in the ewe. Cester CC, et al. **Vet Res** 1996;27(4–5):479–89

ETIOLOGY

[Multiple liver abscesses in long-term intrauterine device] Klare P, et al. **Zentralbl Gynakol** 1996;118(9):530–2 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Increase of heat-shock protein and induction of gamma/delta T cells in peritoneal exudate of mice after injection of live Fusobacterium nucleatum. Saito K, et al. **Immunology** 1997 Feb;90(2):229–35

Host modulation of tissue destruction caused by periodontopathogens: effects on a mixed microbial infection composed of Porphyromonas gingivalis and Fusobacterium nucleatum. Ebersole JL, et al. **Microb Pathog** 1997 Jul; 23(1):23–32

MICROBIOLOGY

Investigations of the taxonomy and systematics of Fusobacterium nucleatum using allozyme electrophoresis. Morris ML, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):103–10

[Lemierre's syndrome: a non-forgotten disease (letter)] Pérez de Liano LA, et al. **Arch Bronconeumol** 1997 Feb; 33(2):107–8 **(Spa)**

PATHOLOGY

Host modulation of tissue destruction caused by periodontopathogens: effects on a mixed microbial infection composed of Porphyromonas gingivalis and Fusobacterium nucleatum. Ebersole JL, et al. **Microb Pathog** 1997 Jul; 23(1):23–32

RADIOGRAPHY

Lemierre's syndrome in children: high-resolution CT and color Doppler sonography patterns. Gudinchet F, et al. **Chest** 1997 Jul;112(1):271–3

ULTRASONOGRAPHY

Lemierre's syndrome in children: high-resolution CT and color Doppler sonography patterns. Gudinchet F, et al. **Chest** 1997 Jul;112(1):271–3

VETERINARY

Fusobacterium necrophorum septicemia in a lamb: pathologic and microbiologic characterization. Ramos-Vara JA, et al. **J Vet Diagn Invest** 1997 Jan;9(1):79–82

Minimum inhibitory concentrations for selected antimicrobial agents against Fusobacterium necrophorum isolated from hepatic abscesses in cattle and sheep. Mateos E, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):21–3 (24 ref.)

Fusobacterium necrophorum abortion in a cow. Otter A. **Vet Rec** 1996 Sep 28;139(13):318–9

The serum neutralizing antibody response in cattle to Fusobacterium necrophorum leukotoxoid and possible protection against experimentally induced hepatic abscesses. Saginala S, et al. **Vet Res Commun** 1996; 20(6):493–504

FUSOBACTERIUM NECROPHORUM

Lemierre's syndrome in children: high-resolution CT and color Doppler sonography patterns. Gudinchet F, et al. **Chest** 1997 Jul;112(1):271–3

Fever, sore throat, and pulmonary infiltrates in a 20-year-old man. Venkataraman MT, et al. **Chest** 1997 Jul;112(1):268–70

Fusobacterium necrophorum septicemia in a lamb: pathologic and microbiologic characterization. Ramos-Vara JA, et al. **J Vet Diagn Invest** 1997 Jan;9(1):79–82

A young woman with a sore throat, septicaemia, and respiratory failure. Vohra A, et al. **Lancet** 1997 Sep 27; 350(9082):928

Fusobacterium necrophorum meningitis associated with cerebral vessel thrombosis. Larsen PD, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):330–1

The use of an experimental metritis model to study antibiotic distribution in genital tract secretions in the ewe. Cester CC, et al. **Vet Res** 1996;27(4–5):479–89

[A young man with sore throat and infection] Egger M, et al. **Schweiz Med Wochenschr** 1997 May 17;127(20):861–3 (Eng. Abstr.) **(Ger)**

[Multiple liver abscesses in long-term intrauterine device] Klare P, et al. **Zentralbl Gynakol** 1996;118(9):530–2 (Eng. Abstr.) **(Ger)**

[Lemierre's syndrome: a non-forgotten disease (letter)] Pérez de Liano LA, et al. **Arch Bronconeumol** 1997 Feb; 33(2):107–8 **(Spa)**

CHEMISTRY

Interactions between Fusobacterium necrophorum hemolysin, erythrocytes and erythrocyte membranes. Amoako KK, et al. **FEMS Microbiol Lett** 1997 May 1; 150(1):101–6

DRUG EFFECTS

Minimum inhibitory concentrations for selected antimicrobial agents against Fusobacterium necrophorum isolated from hepatic abscesses in cattle and sheep. Mateos E, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):21–3 (24 ref.)

IMMUNOLOGY

Use of enzyme-linked-immunosorbent assay for detection of IgG and IgM antibodies to Fusobacterium necrophorum in cattle. Kanoe M, et al. **Microbios** 1996;87(353):257–62

The serum neutralizing antibody response in cattle to Fusobacterium necrophorum leukotoxoid and possible protection against experimentally induced hepatic abscesses. Saginala S, et al. **Vet Res Commun** 1996; 20(6):493–504

ISOLATION & PURIFICATION

Lemierre's syndrome: are we underdiagnosing this life-threatening infection? Harar RP, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May–Jun; 58(3):178–81

Fusobacterium necrophorum abortion in a cow. Otter A. **Vet Rec** 1996 Sep 28;139(13):318–9

METABOLISM

The effects of physical and chemical agents on the secretion and stability of a Fusobacterium necrophorum hemolysin. Amoako KK, et al. **Vet Microbiol** 1996 Jul;51(1–2):115–24

Stability and stabilization of Fusobacterium necrophorum hemolysin. Amoako KK, et al. **Vet Microbiol** 1996 May; 50(1–2):149–53

PHYSIOLOGY

Effect of Fusobacterium necrophorum leukotoxoid vaccine on susceptibility to experimentally induced liver abscesses in cattle. Saginala S, et al. **J Anim Sci** 1997 Apr; 75(4):1160–6

FUSOBACTERIUM NUCLEATUM

Increase of heat-shock protein and induction of gamma/delta T cells in peritoneal exudate of mice after injection of live Fusobacterium nucleatum. Saito K, et al. **Immunology** 1997 Feb;90(2):229–35

Host modulation of tissue destruction caused by periodontopathogens: effects on a mixed microbial infection composed of Porphyromonas gingivalis and Fusobacterium nucleatum. Ebersole JL, et al. **Microb Pathog** 1997 Jul; 23(1):23–32

CHEMISTRY

Extraction and characterization of the smooth-type lipopolysaccharide from Fusobacterium nucleatum JCM 8532 and its biological activities. Onoue S, et al. **Microbiol Immunol** 1996;40(5):323–31

CLASSIFICATION

Investigations of the taxonomy and systematics of Fusobacterium nucleatum using allozyme electrophoresis. Morris ML, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):103–10

DRUG EFFECTS

The effect of areca nut on salivary and selected oral microorganisms. de Miranda CM, et al. **Int Dent J** 1996 Aug;46(4):350–6

GENETICS

Cloning and expression of FomA, the major outer-membrane protein gene from Fusobacterium nucleatum T18. Haake SK, et al. **Arch Oral Biol** 1997 Jan;42(1):19–24

Investigations of the taxonomy and systematics of Fusobacterium nucleatum using allozyme electrophoresis. Morris ML, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):103–10

Cloning of the fomA gene, encoding the major outer membrane porin of Fusobacterium nucleatum ATCC10953. Jensen HB, et al. **Microb Pathog** 1996 Nov;21(5):331–42

IMMUNOLOGY

Immune response to Fusobacterium nucleatum, Prevotella intermedia and other anaerobes in children with acute tonsillitis. Brook I, et al. **J Antimicrob Chemother** 1997 Jun; 39(6):763–9

ISOLATION & PURIFICATION

Uvulitis caused by anaerobic bacteria. Brook I. **Pediatr Emerg Care** 1997 Jun;13(3):221

PATHOGENICITY

Strong cytotoxicity to human gingival fibroblasts by Porphyromonas gingivalis ATCC 33277. Johansson A, et al. **J Periodontal Res** 1996 Oct;31(7):477–82

Alveolar bone loss in rats infected with a strain of Prevotella intermedia and Fusobacterium nucleatum isolated from a child with prepubertal periodontitis. Yoshida-Minami I, et al. **J Periodontol** 1997 Jan;68(1):12–7

PHYSIOLOGY

Release and activation of human neutrophil matrix metallo- and serine proteinases during phagocytosis of Fusobacterium nucleatum, Porphyromonas gingivalis and Treponema denticola. Ding Y, et al. **J Clin Periodontol** 1997 Apr;24(4):237–48

Fusobacterium nucleatum T18 aggregates human mononuclear cells and inhibits their PHA-stimulated proliferation. Kinder Haake S, et al. **J Periodontol** 1997 Jan;68(1):39–44

FUTILE TREATMENT see **MEDICAL FUTILITY**

FUTUROLOGY see **FORECASTING**

FUZZY LOGIC

Definition of severity and compiling of entry criteria in patients undergoing ECLA: the use of a fuzzy logic expert system. Steltzer H, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:125–6

On fuzzy concepts in immunology. Ahmed E. **Acta Biotheor** 1996 Jun;44(2):176–7

Automation of matrix-assisted laser desorption/ionization mass spectrometry using fuzzy logic feedback control. Jensen ON, et al. **Anal Chem** 1997 May 1;69(9):1706–14

An auditory localization model based on high-frequency spectral cues. Nandy D, et al. **Ann Biomed Eng** 1996 Nov–Dec;24(6):621–38

Fuzzy gating and the problem of screening. Amata Cruz GP, et al. **Artif Intell Med** 1996 Aug;8(4):377–85

Design and validation of an intelligent patient monitoring and alarm system based on a fuzzy logic process model. Becker K, et al. **Artif Intell Med** 1997 Sep;11(1):33–53

Application of the fuzzy ARTMAP neural network model to medical pattern classification tasks. Downs J, et al. **Artif Intell Med** 1996 Aug;8(4):403–28

Lightweight fuzzy processes in clinical computing. Hurdle JF. **Artif Intell Med** 1997 Sep;11(1):55–73

Fuzzy logic for model adaptation of a pharmacokinetic-based closed loop delivery system for pancuronium. Kern SE, et al. **Artif Intell Med** 1997 Sep;11(1):9–31

Fuzzy logic in computer-aided breast cancer diagnosis: analysis of lobulation. Kovalerchuk B, et al. **Artif Intell Med** 1997 Sep;11(1):75–85

Synthesis of an anaesthetic agent administration system using fuzzy inductive reasoning. Nebot A, et al. **Artif Intell Med** 1996 May;8(2):147–66

Fuzzy set theory in medicine [editorial] Steimann F. **Artif Intell Med** 1997 Sep;11(1):1–7 (15 ref.)

Control model of human stance using fuzzy logic. Jacobs R. **Biol Cybern** 1997 Jul;77(1):63–70

Self-organized marginal stability resulting from inconsistency between fuzzy logic and deterministic logic: an application to biological systems. Ito K, et al. **Biosystems** 1997; 41(3):179–90

Self-learning fuzzy logic control of neuromuscular block. Ross JJ, et al. **Br J Anaesth** 1997 Apr;78(4):412–5

Fuzzy logic control of mechanical ventilation during anaesthesia. Schäublin J, et al. **Br J Anaesth** 1996 Nov; 77(5):636–41

Fuzzy logic control of inspired volatile anaesthetic concentrations [letter; comment] Wissing H, et al. **Br J Anaesth** 1996 Dec;77(6):807–8. Comment on: Br J Anaesth 1996 Feb;76(2):245–50.

The fuzzy logic of visuomotor control. Prochazka A. **Can J Physiol Pharmacol** 1996 Apr;74(4):456–62 (30 ref.)

Using fuzzy logic to predict response to citalopram in alcohol dependence. Naranjo CA, et al. **Clin Pharmacol Ther** 1997 Aug;62(2):209–24

Fuzzy logic pharmacokinetic modeling: application to lithium concentration prediction. Sproule BA, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):29–40

A key for freshwater invertebrates using fuzzy logic. Winder L, et al. **Comput Appl Biosci** 1997 Apr;13(2):169–74

A neuro-fuzzy algorithm for diagnosis of coronary artery stenosis. Sztandera LM, et al. **Comput Biol Med** 1996 Mar; 26(2):97–111

Segmentation of multispectral magnetic resonance image using penalized fuzzy competitive learning network. Lin JS, et al. **Comput Biomed Res** 1996 Aug;29(4):314–26

Delineation and quantitation of brain lesions by fuzzy clustering in positron emission tomography. Boudraa AE, et al. **Comput Med Imaging Graph** 1996 Jan–Feb;20(1):31–41

Fuzzy filter for state estimation of a glucoregulatory system. Trajanoski Z, et al. **Comput Methods Programs Biomed** 1996 Aug;50(3):265–73

Fuzzy sequences, specific attachments? Chromosome dynamics. Swedlow JR, et al. **Curr Biol** 1996 May 1; 6(5):544–7 (19 ref.)

Computed tomography image enhancement using the concept of fuzzy logic. Mir AH, et al. **Front Med Biol Eng** 1996;7(2):93–109

A fuzzy clustering approach to EP estimation. Zouridakis G, et al. **IEEE Trans Biomed Eng** 1997 Aug;44(8):673–80

Applying fuzzy logic to control cycling movement induced by functional electrical stimulation. Chen JJ, et al. **IEEE Trans Rehabil Eng** 1997 Jun;5(2):158–69

Multispectral magnetic resonance images segmentation using fuzzy Hopfield neural network. Lin JS, et al. **Int J Biomed Comput** 1996 Aug;42(3):205–14

Feedback control in anaesthesia. Asbury AJ. **Int J Clin Monit Comput** 1997 Feb;14(1):1–10 (11 ref.)

Identification of coherent structures in turbulent shear flows with a fuzzy artmap neural network. Ferre-Gine J, et al. **Int J Neural Syst** 1996 Nov;7(5):559–68

A fuzzy adaptive learning control network with on-line structure and parameter learning. Lin CJ. **Int J Neural Syst** 1996 Nov;7(5):569–90

FUZZY LOGIC

Pattern recognition system for focal liver lesions using "crisp" and "fuzzy" classifiers. Klein HM, et al. **Invest Radiol** 1996 Jan;31(1):6–10

Science, abduction and the fuzzy nurse: an exploration of expertise. Rolfe G. **J Adv Nurs** 1997 May;25(5):1070–5 (10 ref.)

Medical diagnosis, diagnostic spaces, and fuzzy systems. Bellamy JE. **J Am Vet Med Assoc** 1997 Feb 1;210(3):390–6

Fuzzy systems approach to diagnosis in the postpartum cow. Bellamy JE. **J Am Vet Med Assoc** 1997 Feb 1; 210(3):397–401

Fuzzy logic: theory and medical applications. Vitez TS, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):800–8 (33 ref.)

Fundamentals of feedback control: PID, fuzzy logic, and neural networks. Westenskow DR. **J Clin Anesth** 1997 Sep; 9(6 Suppl):33S–35S (23 ref.)

Quantification of white matter and gray matter volumes from T1 parametric images using fuzzy classifiers. Hemdon RC, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):425–35

The use of fuzzy logic in nutrition. Wirsam B, et al. **J Nutr** 1996 Sep;126(9 Suppl):2337S–2341S

Methodology for a medical expert system on fuzzy analog ganglionar lattices. Non-approximate reasoning with multiple antecendents of different relative importance and limited uncertainty. Holzmann CA, et al. **Med Prog Technol** 1995–96;21(3):147–58

Medical expert system on fuzzy analog ganglionar lattices: explication and prospection based on sensitivity. Holzmann CA, et al. **Med Prog Technol** 1996–97;21(4):195–203

Machine learning of motor vehicle accident categories from narrative data. Lehto MR, et al. **Methods Inf Med** 1996 Dec;35(4–5):309–16

Development and evaluation of fuzzy criteria for the diagnosis of rheumatoid arthritis. Leitich H, et al. **Methods Inf Med** 1996 Dec;35(4–5):334–42

Disease cluster statistics for imprecise space–time locations. Jacquez GM. **Stat Med** 1996 Apr 15–May 15; 15(7–9):873–85 (29 ref.)

Improved monitoring of preterm infants by Fuzzy Logic. Wolf M, et al. **Technol Health Care** 1996 Aug;4(2):193–201

Computer-assisted interpretation of electromyograms of corpora cavernosa using fuzzy logic. Gorek M, et al. **World J Urol** 1997;15(1):65–70

[Quantitative analysis of glucose tolerance tests, responses using fuzzy inference] Arita S, et al. **Nippon Rinsho** 1996 Oct;54(10):2807–11 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Fuzzy logic and postoperative pain] Carregal A, et al. **Rev Esp Anestesiol Reanim** 1997 Jun–Jul;44(6):215–7 (Eng. Abstr.) **(Spa)**

G0 PHASE

Cell cycle arrest in G0/G1 phase by contact inhibition and TGF-beta 1 in mink Mv1Lu lung epithelial cells. Wu F, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L879–88

Evidence for a mammalian Nim1-like kinase pathway acting at the G0–1/S transition. Baldin V, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):130–4

The unexpected G0/G1 cell cycle status of mobilized hematopoietic stem cells from peripheral blood. Uchida N, et al. **Blood** 1997 Jan 15;89(2):465–72

Cyclin E/Cdk2 activity is controlled by different mechanisms in the G0 and G1 phases of the cell cycle. Bresnahan WA, et al. **Cell Growth Differ** 1996 Oct;7(10):1283–90

Three-dimensional analysis of the arrangement of compact chromatin in the nucleus of G0 rat lymphocytes. López-Velázquez G, et al. **Histochem Cell Biol** 1996 Feb; 105(2):153–61

G0/G1 growth arrest mediated by a region encompassing the basic leucine zipper (bZIP) domain of the Epstein–Barr virus transactivator Zta. Cayrol C, et al. **J Biol Chem** 1996 Dec 13;271(50):31799–802

A novel protein, Psp1, essential for cell cycle progression of Schizosaccharomyces pombe is phosphorylated by Cdc2–Cdc13 upon entry into G0-like stationary phase of cell growth. Jang YJ, et al. **J Biol Chem** 1997 Aug 8; 272(32):19993–20002

Thymidine inhibits the growth-arrest-specific degradation of thymidine kinase protein in transfected L fibroblasts. Sutterluety H, et al. **J Mol Biol** 1997 Jan 17;265(2):153–60

DRUG EFFECTS

Ethanol induces transient arrest of cell division (G2 + M block) followed by G0/G1 block: dose effects of short- and longer-term ethanol exposure on cell cycle and cell functions. Mikami K, et al. **Alcohol Alcohol** 1997 Mar–Apr; 32(2):145–52

Growth-related signaling in vascular smooth muscle cells is deregulated by TCDD during the G0/G1 transition. Weber TJ, et al. **J Toxicol Environ Health** 1997 Jul; 51(4):369–86

Cell-permeable ceramide inhibits the growth of B lymphoma Raji cells lacking TNF-alpha-receptors by inducing G0/G1 arrest but not apoptosis: a new model for dissecting cell-cycle arrest and apoptosis. Kuroki J, et al. **Leukemia** 1996 Dec;10(12):1950–8

GENETICS

The accumulation of an E2F–p130 transcriptional repressor distinguishes a G0 cell state from a G1 cell state. Smith EJ, et al. **Mol Cell Biol** 1996 Dec;16(12):6965–76

PHYSIOLOGY

PKC phosphorylation disrupts gap junctional communication at G0/S phase in clone 9 cells. Koo SK, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):41–9

RADIATION EFFECTS

[The approximation of cell distribution by the number of aberrations in the fractionated gamma-neutron irradiation of a human lymphocyte culture at the presynthesis stage (the G0 and G1 stages of the cycle) based on a theoretical model] Pozdyshkina OV. **Radiats Biol Radioecol** 1997 Mar–Apr;37(2):240–8 (Eng. Abstr.) **(Rus)**

G1 PHASE

Cyclin-dependent kinase regulation during G1 phase and cell cycle regulation by TGF-beta. Ravitz MJ, et al. **Adv Cancer Res** 1997;71:165–207 (248 ref.)

Cell cycle arrest in G0/G1 phase by contact inhibition and TGF-beta 1 in mink Mv1Lu lung epithelial cells. Wu F, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L879–88

G1 phase arrest of human smooth muscle cells by heparin, IL-4 and cAMP is linked to repression of cyclin D1 and cdk2. Vadiveloo PK, et al. **Atherosclerosis** 1997 Aug; 133(1):61–9

Expression of G1-phase cell cycle genes during hematopoietic lineage. Della Ragione F, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):73–6

Abrogation of G1 arrest after DNA damage is associated with constitutive overexpression of Mdm2, Cdk4, and Irf1 mRNAs in the BALB/c 3T3 A31 variant 1–1 clone. Nozaki T, et al. **Biochem Biophys Res Commun** 1997 Apr 7; 233(1):216–20

P21waf-1/cip-1/sdi-1 is expressed at G1 phase in primary culture of hepatocytes from old rats, presumably preventing the cells from entering the S phase of the cell cycle. Sawada N, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):819–24

The unexpected G0/G1 cell cycle status of mobilized hematopoietic stem cells from peripheral blood. Uchida N, et al. **Blood** 1997 Jan 15;89(2):465–72

Cyclin E/Cdk2 activity is controlled by different mechanisms in the G0 and G1 phases of the cell cycle. Bresnahan WA, et al. **Cell Growth Differ** 1996 Oct;7(10):1283–90

Gamma-interferon induces an irreversible growth arrest in mid-G1 in mammary epithelial cells which correlates with a block in hyperphosphorylation of retinoblastoma. Harvat BL, et al. **Cell Growth Differ** 1996 Mar;7(3):289–300

Phosphatidylinositol 3-kinase inhibitor wortmannin blocks mitogenic activation of the transferrin receptor gene promoter in late G1. Miskimins WK, et al. **Cell Growth Differ** 1997 May;8(5):565–70

All-trans-retinoic acid mediates G1 arrest but not apoptosis of normal human mammary epithelial cells. Seewaldt VL, et al. **Cell Growth Differ** 1997 Jun;8(6):631–41

Exponential growth, random transitions and progress through the G1 phase: computer simulation of experimental data. Sennerstam R, et al. **Cell Prolif** 1996 Nov; 29(11):609–22

Cell cycle and cancer: critical events at the G1 restriction point. DelSal G, et al. **Crit Rev Oncog** 1996;7(1–2):127–42 (156 ref.)

Cell cycle-dependent activation of Ras. Taylor SJ, et al. **Curr Biol** 1996 Dec 1;6(12):1621–7

A 3-D model for chromatin organisation of G1 and G2 populations from quantitative confocal image analysis. Strasters KC, et al. **Cytometry** 1997 Mar 1;27(3):201–12

MAP kinase links the fertilization signal transduction pathway to the G1/S-phase transition in starfish eggs. Tachibana K, et al. **EMBO J** 1997 Jul 16;16(14):4333–9

1,25-dihydroxyvitamin D3 and 9-cis-retinoic acid act synergistically to inhibit the growth of LNCaP prostate cells and cause accumulation of cells in G1. Blutt SE, et al. **Endocrinology** 1997 Apr;138(4):1491–7

A novel Mcm1-dependent element in the SWI4, CLN3, CDC6, and CDC47 promoters activates M/G1-specific transcription. McInerny CJ, et al. **Genes Dev** 1997 May 15;11(10):1277–88

G0/G1 growth arrest mediated by a region encompassing the basic leucine zipper (bZIP) domain of the Epstein–Barr virus transactivator Zta. Cayrol C, et al. **J Biol Chem** 1996 Dec 13;271(50):31799–802

Transcriptional remodeling and G1 arrest in dioxygen stress in Saccharomyces cerevisiae. Lee J, et al. **J Biol Chem** 1996 Oct 4;271(40):24885–93

Dependence of activated Galpha12-induced G1 to S phase cell cycle progression on both Ras/mitogen-activated protein kinase and Ras/Rac1/Jun N-terminal kinase cascades in NIH3T3 fibroblasts. Mitsui H, et al. **J Biol Chem** 1997 Feb 21;272(8):4904–10

Accumulation of E2F-4.DP-1 DNA binding complexes correlates with induction of dhfr gene expression during the G1 to S phase transition. Wells JM, et al. **J Biol Chem** 1997 Feb 14;272(7):4483–92

Human cytomegalovirus infection inhibits G1/S transition. Dittmer D, et al. **J Virol** 1997 Feb;71(2):1629–34

Analysis of the p53-mediated G1 growth arrest pathway in cells expressing the human papillomavirus type 16 E7 oncoprotein. Jones DL, et al. **J Virol** 1997 Apr; 71(4):2905–12

Convergence of mitogenic signalling cascades from diverse classes of receptors at the cyclin D-cyclin-dependent kinase-pRb-controlled G1 checkpoint. Lukas J, et al. **Mol Cell Biol** 1996 Dec;16(12):6917–25

The ts13 mutation in the TAF(II)250 subunit (CCG1) of TFIID directly affects transcription of D-type cyclin genes in cells arrested in G1 at the nonpermissive temperature. Suzuki-Yagawa Y, et al. **Mol Cell Biol** 1997 Jun; 17(6):3284–94

Yeast L double-stranded ribonucleic acid is synthesized during the G1 phase but not the S phase of the cell cycle. Zakian VA, et al. **Mol Cell Biol** 1981 Aug;1(8):673–9

Inducible nucleotide excision repair (NER) of UV-induced cyclobutane pyrimidine dimers in the cell cycle of the budding yeast Saccharomyces cerevisiae: evidence that inducible NER is confined to the G1 phase of the mitotic cell cycle. Scott AD, et al. **Mol Gen Genet** 1997 Mar 18; 254(1):43–53

Identification of mRNAs differentially expressed in quiescence or in late G1 phase of the cell cycle in human breast cancer cells by using the differential display method. Alpan RS, et al. **Mol Med** 1996 Jul;2(4):469–78

The 70 kDa subunit of replication protein A is required for the G1/S and intra-S DNA damage checkpoints in budding yeast. Longhese MP, et al. **Nucleic Acids Res** 1996 Sep 15;24(18):3533–7

Human cytomegalovirus inhibits cellular DNA synthesis and arrests productively infected cells in late G1. Bresnahan WA, et al. **Virology** 1996 Oct 1;224(1):150–60

[Regulation of cyclin D-dependent kinases and molecular mechanisms of G1 progression] Kato J. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1719–24 (46 ref.) **(Jpn)**

[G1 phase control by Cdk inhibitor] Nakanishi M. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(7):897–907 (60 ref.) **(Jpn)**

[Regulation of cyclin E and Cdk2 expression at G1/S transition: post-transcriptional reguration mediated by delta FosB] Oda S, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1725–31 (43 ref.) **(Jpn)**

[G1 phase regulation] Ohtsubo M, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1712–8 (37 ref.) **(Jpn)**

DRUG EFFECTS

Ethanol induces transient arrest of cell division (G2 + M block) followed by G0/G1 block: dose effects of short- and longer-term ethanol exposure on cell cycle and cell functions. Mikami K, et al. **Alcohol Alcohol** 1997 Mar–Apr; 32(2):145–52

Induction of human myeloblastic ML-1 cell G1 arrest by suppression of K+ channel activity. Xu B, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C2037–44

Interleukin-6 overcomes p21WAF1 upregulation and G1 growth arrest induced by dexamethasone and interferon-gamma in multiple myeloma cells. Urashima M, et al. **Blood** 1997 Jul 1;90(1):279–89

G1 phase accumulation induced by UCN-01 is associated with dephosphorylation of Rb and CDK2 proteins as well as induction of CDK inhibitor p21/Cip1/WAF1/Sdi1 in p53-mutated human epidermoid carcinoma A431 cells. Akiyama T, et al. **Cancer Res** 1997 Apr 15;57(8):1495–501

Cyclin-dependent kinase 6 is the principal target of p27/Kip1 regulation of the G1-phase traverse in 1,25-dihydroxyvitamin D3-treated HL60 cells. Wang QM, et al. **Cancer Res** 1997 Jul 15;57(14):2851–5

Staurosporine-induced G1 arrest is associated with the induction and accumulation of cyclin-dependent kinase inhibitors. Kwon TK, et al. **Cell Growth Differ** 1996 Oct; 7(10):1305–13

CD43 expression in a B cell lymphoma, WEHI 231, reduces susceptibility to G1 arrest and extends survival in culture upon serum depletion. Misawa Y, et al. **Eur J Immunol** 1996 Nov;26(11):2573–81

The phosphatase inhibitor okadaic acid stimulates the TSH-induced G1–S phase transition in thyroid cells. Lazzereschi D, et al. **Exp Cell Res** 1997 Aug 1; 234(2):425–33

All-trans-retinoic acid blocks cell cycle progression of human ovarian adenocarcinoma cells at late G1. Wu S, et al. **Exp Cell Res** 1997 May 1;232(2):277–86

ICRF-193, a catalytic inhibitor of DNA topoisomerase II, delays the cell cycle progression from metaphase, but not from anaphase to the G1 phase in mammalian cells. Iwai M, et al. **FEBS Lett** 1997 Apr 14;406(3):267–70

Dimethyl sulfoxide induces programmed cell death and reversible G1 arrest in the cell cycle of human lymphoid pre-T cell line. Trubiani O, et al. **Immunol Lett** 1996 Apr; 50(1–2):51–7

Preferential radiosensitization of G1 checkpoint-deficient cells by methylxanthines. Russell KJ, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1099–106

Differential Taxol-dependent arrest of transformed and nontransformed cells in the G1 phase of the cell cycle, and specific-related mortality of transformed cells. Trielli MO, et al. **J Cell Biol** 1996 Nov;135(3):689–700

Rapamycin (sirolimus) inhibits proliferating cell nuclear antigen expression and blocks cell cycle in the G1 phase in human keratinocyte stem cells. Javier AF, et al. **J Clin Invest** 1997 May 1;99(9):2094–9

G1/S cell cycle blockers and inhibitors of cyclin-dependent

kinases suppress camptothecin-induced neuronal apoptosis. Park DS, et al. **J Neurosci** 1997 Feb 15;17(4):1256–70

Cell-permeable ceramide inhibits the growth of B lymphoma Raji cells lacking TNF-alpha-receptors by inducing G0/G1 arrest but not apoptosis: a new model for dissecting cell-cycle arrest and apoptosis. Kuroki J, et al. **Leukemia** 1996 Dec;10(12):1950–8

G1 phase-specific suppression of the Cdk2 activity by ginsenoside Rh2 in cultured murine cells. Ota T, et al. **Life Sci** 1997;60(2):PL39–44

The RB/p107/p130 phosphorylation pathway is not inhibited in rapamycin-induced G1-prolongation of NIH3T3 cells. Chen Y, et al. **Oncogene** 1996 Oct 17;13(8):1765–71

TGF-beta mediated G1 arrest in a human melanoma cell line lacking p15INK4B: evidence for cooperation between p21Cip1/WAF1 and p27Kip1. Fløranes VA, et al. **Oncogene** 1996 Dec 5;13(11):2447–57

Ethanol upregulates the expression of p21 WAF1/CIP1 and prolongs G1 transition via a p53-independent pathway in human epithelial cells. Guo W, et al. **Oncogene** 1997 Sep 4;15(10):1143–9

Glucose-regulated stresses cause decreased expression of cyclin D1 and hypophosphorylation of retinoblastoma protein in human cancer cells. Tomida A, et al. **Oncogene** 1996 Dec 19;13(12):2699–705

Inhibition of the growth of WI-38 fibroblasts by benzyloxycarbonyl-Leu-Leu-Tyr diazomethyl ketone: evidence that cleavage of p53 by a calpain-like protease is necessary for G1 to S-phase transition. Zhang W, et al. **Oncogene** 1997 Jan 23;14(3):255–63

Hyperthermia and paraquat-induced G1 arrest in the yeast Saccharomyces cerevisiae is independent of the RAD9 gene. Nunes E, et al. **Radiat Environ Biophys** 1996 Feb; 35(1):55–7

GENETICS

Restoration of the G1 checkpoint and the apoptotic pathway mediated by wild-type p53 sensitizes squamous cell carcinoma of the head and neck to radiotherapy. Chang EH, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):507–12

Antisense inhibition of CAS, the human homologue of the yeast chromosome segregation gene CSE1, interferes with mitosis in HeLa cells. Ogryzko VV, et al. **Biochemistry** 1997 Aug 5;36(31):9493–500

Induction of p21 by the Wilms' tumor suppressor gene WT1. Englert C, et al. **Cancer Res** 1997 Apr 15;57(8):1429–34

A BRCA1 mutant alters G2-M cell cycle control in human mammary epithelial cells. Larson JS, et al. **Cancer Res** 1997 Aug 15;57(16):3351–5

Induction of apoptosis but not G1 arrest by expression of the wild-type p53 gene in small cell lung carcinoma. Adachi J, et al. **Cell Growth Differ** 1996 Jul;7(7):879–86

Regulation of apoptosis and cell cycle arrest by Zac1, a novel zinc finger protein expressed in the pituitary gland and the brain. Spengler D, et al. **EMBO J** 1997 May 15; 16(10):2814–25

The Wilms tumor suppressor gene WT1 induces G1 arrest and apoptosis in myeloblastic leukemia M1 cells. Murata Y, et al. **FEBS Lett** 1997 Jun 2;409(1):41–5

Schizosaccharomyces pombe gad7+ encodes a phosphoprotein with a bZIP domain, which is required for proper G1 arrest and gene expression under nitrogen starvation. Kanoh J, et al. **Genes Cells** 1996 Apr; 1(4):391–408

A hamster temperature-sensitive G1 mutant, tsBN250 has a single point mutation in histidyl-tRNA synthetase that inhibits an accumulation of cyclin D1. Motomura S, et al. **Genes Cells** 1996 Dec;1(12):1101–12

Human T cells require IL-2 but not G1/S transition to acquire susceptibility to Fas-mediated apoptosis. Fournel S, et al. **J Immunol** 1996 Nov 15;157(10):4309–15

Saccharomyces cerevisiae G1 cyclins differ in their intrinsic functional specificities. Levine K, et al. **Mol Cell Biol** 1996 Dec;16(12):6794–803

Cdc53p acts in concert with Cdc4p and Cdc34p to control the G1-to-S-phase transition and identifies a conserved family of proteins. Mathias N, et al. **Mol Cell Biol** 1996 Dec;16(12):6634–43

The accumulation of an E2F-p130 transcriptional repressor distinguishes a G0 cell state from a G1 cell state. Smith EJ, et al. **Mol Cell Biol** 1996 Dec;16(12):6965–76

Effects of Salmonella assay negative and positive carcinogens on intrachromosomal recombination in G1-arrested yeast cells. Galli A, et al. **Mutat Res** 1996 Oct 1;370(3–4):209–21

[The fission yeast cdc18+ gene links S phase to START and plays a major role in the initiation of DNA replication] Nishitani H. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1761–8 (34 ref.) **(Jpn)**

[The role of SUP35 and SUP45 genes in controlling Saccharomycetes cell cycle] Borkhsenius AS, et al. **Dokl Akad Nauk** 1997 Apr;353(4):553–6 **(Rus)**

IMMUNOLOGY

The regulated expression of cell cycle-related proteins as B-lymphocytes enter and progress through the G1 cell cycle stage following delivery of complete versus partial activation stimuli. Reid S, et al. **Mol Immunol** 1996 Oct; 33(14):1139–51

PHYSIOLOGY

Cyclin D1, another molecule of the year? [editorial] Betticher DC. **Ann Oncol** 1996 Mar;7(3):223–5

Evidence for participation of a calpain-like cysteine protease in cell cycle progression through late G1 phase. Mellgren RL. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):555–8

Altered expression of the retinoblastoma tumor-suppressor gene in leukemic cell lines inhibits induction of differentiation but not G1-accumulation. Bergh G, et al. **Blood** 1997 Apr 15;89(8):2938–50

G1 cyclins and control of the cell division cycle in normal and transformed cells. Hamel PA, et al. **Cancer Invest** 1997; 15(2):143–52 (96 ref.)

The p16-cyclin D/Cdk4-pRb pathway as a functional unit frequently altered in melanoma pathogenesis. Bartkova J, et al. **Cancer Res** 1996 Dec 1;56(23):5475–83

DNA-dependent protein kinase is not required for accumulation of p53 or cell cycle arrest after DNA damage. Rathmell WK, et al. **Cancer Res** 1997 Jan 1;57(1):68–74

Cyclin/Cdk-dependent initiation of DNA replication in a human cell-free system. Krude T, et al. **Cell** 1997 Jan 10; 88(1):109–19

Rac and Cdc42 induce actin polymerization and G1 cell cycle progression independently of p65PAK and the JNK/SAPK MAP kinase cascade. Lamarche N, et al. **Cell** 1996 Nov 1;87(3):519–29

Pre-mitotic nuclear migration in subsidiary mother cells of Tradescantia occurs in G1 of the cell cycle and requires F-actin. Kennard JL, et al. **Cell Motil Cytoskeleton** 1997; 36(1):55–67

S-phase function of Drosophila cyclin A and its downregulation in G1 phase. Sprenger F, et al. **Curr Biol** 1997 Jul 1;7(7):488–99

p25rum1 promotes proteolysis of the mitotic B-cyclin p56cdc13 during G1 of the fission yeast cell cycle. Correa-Bordes J, et al. **EMBO J** 1997 Aug 1; 16(15):4657–64

Translocation of cdk2 to the nucleus during G1-phase in PDGF-stimulated human fibroblasts. Dietrich C, et al. **Exp Cell Res** 1997 Apr 10;232(1):72–8

Control of G1 in the developing Drosophila eye: rca1 regulates Cyclin A. Dong X, et al. **Genes Dev** 1997 Jan 1;11(1):94–105

Induced PAI-1 mRNA expression and targeted protein accumulation are early G1 events in serum-stimulated rat kidney cells. Kutz SM, et al. **J Cell Physiol** 1997 Jan; 170(1):8–18

Cdc6p establishes and maintains a state of replication competence during G1 phase. Detweiler CS, et al. **J Cell Sci** 1997 Mar;110 (Pt 6):753–63

p53-dependent repression of cdk4 synthesis in transforming growth factor-beta-induced G1 cell cycle arrest. Ewen ME. **J Lab Clin Med** 1996 Oct;128(4):355–60 (13 ref.)

Potassium channels, proliferation and G1 progression. Wonderlin WF, et al. **J Membr Biol** 1996 Nov; 154(2):91–107 (105 ref.)

Cyclic AMP negatively controls c-myc transcription and G1 cell cycle progression in p210 BCR-ABL transformed cells: inhibitory activity exerted through cyclin D1 and cdk4. Williamson EA, et al. **Leukemia** 1997 Jan;11(1):73–85

The requirements for G1 checkpoint progression of Trypanosoma brucei S 427 clone 1. Morgan GA, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):195–207

The replication origin decision point is a mitogen-independent, 2-aminopurine-sensitive, G1-phase event that precedes restriction point control. Wu JR, et al. **Mol Cell Biol** 1997 Aug;17(8):4312–21

Transcription-dependent induction of G1 phase during the zebra fish midblastula transition. Zamir E, et al. **Mol Cell Biol** 1997 Feb;17(2):529–36

Human cyclin B1 is targeted to the nucleus in G1 phase prior to its accumulation in the cytoplasm. David-Pfeuty T, et al. **Oncogene** 1996 Oct 3;13(7):1447–60

Activation of p21ras is not sufficient to ensure a complete G1 phase of the cell division cycle in mouse fibroblasts. Gaben AM, et al. **Oncogene** 1996 Nov 21;13(10):2113–20

Uncoupling of DNA replication and cell cycle progression by human cyclin E. Mumberg D, et al. **Oncogene** 1996 Dec 5;13(11):2493–7

Differential cell cycle effects induced by E2F1 mutants. Qin XQ, et al. **Oncogene** 1997 Jan 9;14(1):53–62

Apoptosis induced by ectopic expression of cyclin D1 but not cyclin E. Sofer-Levi Y, et al. **Oncogene** 1996 Dec 5; 13(11):2431–7

Protein geranylgeranylation, not farnesylation, is required for the G1 to S phase transition in mouse fibroblasts. Vogt A, et al. **Oncogene** 1996 Nov 7;13(9):1991–9

Differential expression of G1 cyclins during human placentogenesis. DeLoia JA, et al. **Placenta** 1997 Jan; 18(1):9–16

[Control mechanisms of cell transition from the G1 phase to the S phase--the R point] Bártek J, et al. **Cas Lek Cesk** 1996 Oct 9;135(19):634–5 (Eng. Abstr.) **(Cze)**

[Cyclins in the G1 phase of the cell cycle, their function and participation in oncogenesis] Grzelakowska-Sztabert B. **Postepy Biochem** 1996;42(2):99–107 (155 ref.) **(Pol)**

[The role of the actin cytoskeleton in cell transition through the middle of the G1 phase of the mitotic cycle] Barkan RS, et al. **Tsitologiia** 1996;38(7):733–41 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Alterations in p53 do not correlate with radioresistant DNA synthesis. Laderoute MP. **Anticancer Res** 1996 Sep-Oct; 16(5A):2825–30

Control of radiation-induced G1 arrest by cell-substratum interactions. Gadbois DM, et al. **Cancer Res** 1997 Mar 15; 57(6):1151–6

Early ultraviolet B-induced G1 arrest and suppression of the malignant phenotype by wild-type p53 in human squamous cell carcinoma cells. Courtois SJ, et al. **Exp Cell Res** 1997 May 25;233(1):135–44

Temporal position of G1 arrest in normal human fibroblasts after exposure to gamma-rays. Gadbois DM, et al. **Exp Cell Res** 1997 Apr 10;232(1):161–6

Human papillomavirus E6 and E7 oncoproteins alter cell cycle progression but not radiosensitivity of carcinoma cells treated with low-dose-rate radiation. DeWeese TL, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):145–54

Altered G1 checkpoint control determines adaptive survival responses to ionizing radiation. Boothman DA, et al. **Mutat Res** 1996 Nov 4;358(2):143–53

Cell cycle arrest defect in Li-Fraumeni Syndrome: a mechanism of cancer predisposition? Williams KJ, et al. **Oncogene** 1997 Jan 23;14(3):277–82

Development of apoptosis and polyploidy in human lymphoblast cells as a function of position in the cell cycle at the time of irradiation. Olive PL, et al. **Radiat Res** 1996 Dec;146(6):595–602

[The approximation of cell distribution by the number of aberrations in the fractionated gamma-neutron irradiation of a human lymphocyte culture at the presynthesis stage (the G0 and G1 stages of the cycle) based on a theoretical model] Pozdyshkina OV. **Radiats Biol Radioecol** 1997 Mar-Apr;37(2):240–8 (Eng. Abstr.) **(Rus)**

[Quantitative patterns in the yield of chromosome aberrations in a human lymphocyte culture with fractionated gamma-neutron irradiation at different stages of the mitotic cycle. The cytogenetic effects at stage G1] Pozdyshkina OV. **Radiats Biol Radioecol** 1997 Mar-Apr;37(2):249–56 (Eng. Abstr.) **(Rus)**

G2 PHASE

Expression of the G2-M checkpoint regulators cyclin B1 and cdc2 in nonmalignant and malignant human breast lesions: immunocytochemical and quantitative image analyses. Kawamoto H, et al. **Am J Pathol** 1997 Jan; 150(1):15–23

Cell cycle arrest in the G2 phase induced by phorbol ester and diacylglycerol in vascular endothelial cells. Kosaka C, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C170–8

p100: a novel proliferation-associated nuclear protein specifically restricted to cell cycle phases S, G2, and M. Heidebrecht HJ, et al. **Blood** 1997 Jul 1;90(1):226–33

A 3-D model for chromatin organisation of G1 and G2 populations from quantitative confocal image analysis. Strasters KC, et al. **Cytometry** 1997 Mar 1;27(3):201–12

G2 arrest and impaired nucleocytoplasmic transport in mouse embryos lacking the proto-oncogene CAN/Nup214. van Deursen J, et al. **EMBO J** 1996 Oct 15;15(20):5574–83

Cdc2 tyrosine phosphorylation is required for the DNA damage checkpoint in fission yeast. Rhind N, et al. **Genes Dev** 1997 Feb 15;11(4):504–11

Conservation and host specificity of Vpr-mediated cell cycle arrest suggest a fundamental role in primate lentivirus evolution and biology. Stivahtis GL, et al. **J Virol** 1997 Jun;71(6):4331–8

Cdc20, a beta-transducin homologue, links RAD9-mediated G2/M checkpoint control to mitosis in Saccharomyces cerevisiae. Lim HH, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):138–48

Delayed cyclin B1 expression during the G2 arrest following DNA damage. Maity A, et al. **Oncogene** 1996 Oct 17; 13(8):1647–57

G2-and early-M-specific expression of the NTCYC1 cyclin gene in Nicotiana tabacum cells. Qin LX, et al. **Plant Mol Biol** 1996 Dec;32(6):1093–101

Mitotic and G2 checkpoint control: regulation of 14-3-3 protein binding by phosphorylation of Cdc25C on serine-216 [see comments] Peng CY, et al. **Science** 1997 Sep 5;277(5331):1501–5. Comment in: Science 1997 Sep 5;277(5331):1450–1.

A DNA damage checkpoint meets the cell cycle engine [comment] Weinert T. **Science** 1997 Sep 5;277(5331):1450–1 . Comment on: Science 1997 Sep 5;277(5331):1495–7. Comment on: Science 1997 Sep 5;277(5331):1497–501. Comment on: Science 1997 Sep 5;277(5331):1501–5.

[G2 phase cell cycle control and checkpoint] Nagata A. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1833–8 (32 ref.) **(Jpn)**

DRUG EFFECTS

Ethanol induces transient arrest of cell division (G2 + M block) followed by G0/G1 block: dose effects of short- and longer-term ethanol exposure on cell cycle and cell functions. Mikami K, et al. **Alcohol Alcohol** 1997 Mar-Apr; 32(2):145–52

Synergistic antiproliferative activity of tamoxifen and docetaxel on three oestrogen receptor-negative cancer cell lines is mediated by the induction of apoptosis. Ferlini C, et al. **Br J Cancer** 1997;75(6):884–91

Cell killing by the novel imidazoacridinone antineoplastic agent, C-1311, is inhibited at high concentrations coincident with dose-differentiated cell cycle perturbation. Lamb J, et al. **Br J Cancer** 1996 Nov;74(9):1359-68

Abrogation of taxol-induced G2-M arrest and apoptosis in human ovarian cancer cells grown as multicellular tumor spheroids. Frankel A, et al. **Cancer Res** 1997 Jun 15; 57(12):2388-93

Correlations between S and G2 arrest and the cytotoxicity of camptothecin in human colon carcinoma cells. Goldwasser F, et al. **Cancer Res** 1996 Oct 1;56(19):4430-7

The chemopreventive flavonoid apigenin induces G2/M arrest in keratinocytes. Lepley DM, et al. **Carcinogenesis** 1996 Nov;17(11):2367-75

An inhibitor of the chymotrypsin-like activity of the multicatalytic proteinase complex (20S proteasome) induces arrest in G2-phase and metaphase in HeLa cells. Wójcik C, et al. **Eur J Cell Biol** 1996 Jun;70(2):172-8

G2 cell cycle arrest and apoptosis are induced in Burkitt's lymphoma cells by the anticancer agent oracin. Klucar J, et al. **FEBS Lett** 1997 Jan 2;400(1):127-30

Subadditive interaction of radiation and Taxol in vitro. Ingram ML, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1139-44

Novel form of p21(WAF1/CIP1/SDI1) protein in phorbol ester-induced G2/M arrest. Tchou WW, et al. **J Biol Chem** 1996 Nov 22;271(47):29556-60

Human immunodeficiency virus type 1 vpr gene induces phenotypic effects similar to those of the DNA alkylating agent, nitrogen mustard. Poon B, et al. **J Virol** 1997 May; 71(5):3961-71

Rotenone, a mitochondrial NADH dehydrogenase inhibitor, induces cell surface expression of CD13 and CD38 and apoptosis in HL-60 cells. Matsunaga T, et al. **Leuk Lymphoma** 1996 Feb;20(5-6):487-94

Taxol pretreatment of tumor targets amplifies natural killer cell mediated lysis. Mehta S, et al. **Leuk Lymphoma** 1997 Jun;26(1-2):67-76

GENETICS

Human immunodeficiency virus type 1 Vpr gene product prevents cell proliferation on mouse NIH3T3 cells without the G2 arrest of the cell cycle. Nishino Y, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):550-4

Antisense inhibition of CAS, the human homologue of the yeast chromosome segregation gene CSE1, interferes with mitosis in HeLa cells. Ogryzko VV, et al. **Biochemistry** 1997 Aug 5;36(31):9493-500

A BRCA1 mutant alters G2-M cell cycle control in human mammary epithelial cells. Larson JS, et al. **Cancer Res** 1997 Aug 15;57(16):3351-5

Mapping of G2/M-phase prevalences of chaperon-encoding transcripts by means of a sensitive differential hybridization approach. Dittmar G, et al. **Cell Biol Int** 1997 Jun; 21(6):383-91

Characterisation of the Schizosaccharomyces pombe rad4/cut5 mutant phenotypes: dissection of DNA replication and G2 checkpoint control function. McFarlane RJ, et al. **Mol Gen Genet** 1997 Jul;255(3):332-40

PHYSIOLOGY

Epithelial wound healing of the rat cornea after excimer laser ablation. Sandvig KU, et al. **Acta Ophthalmol Scand** 1997 Apr;75(2):115-9

A persistent double-strand break destabilizes human DNA in yeast and can lead to G2 arrest and lethality. Bennett CB, et al. **Cancer Res** 1997 May 15;57(10):1970-80

DNA-dependent protein kinase is not required for accumulation of p53 or cell cycle arrest after DNA damage. Rathmell WK, et al. **Cancer Res** 1997 Jan 1;57(1):68-74

Separation of cells at different times within G2 and mitosis by cyclin B1 flow cytometry. Widrow RJ, et al. **Cytometry** 1997 Mar 1;27(3):250-4

Chk1 is a wee1 kinase in the G2 DNA damage checkpoint inhibiting cdc2 by Y15 phosphorylation. O'Connell MJ, et al. **EMBO J** 1997 Feb 3;16(3):545-54

Chromosomes with two intact axial cores are induced by G2 checkpoint override: evidence that DNA decatenation is not required to template the chromosome structure. Andreassen PR, et al. **J Cell Biol** 1997 Jan 13;136(1):29-43

Microtubule dynamics at the G2/M transition: abrupt breakdown of cytoplasmic microtubules at nuclear envelope breakdown and implications for spindle morphogenesis. Zhai Y, et al. **J Cell Biol** 1996 Oct; 135(1):201-14

Cytoplasmic accumulation of cdc25B phosphatase in mitosis triggers centrosomal microtubule nucleation in HeLa cells. Gabrielli BG, et al. **J Cell Sci** 1996 May;109 (Pt 5):1081-93

Presence and expression of G2 cyclins in the coelenterate hydra. Scheurlen I, et al. **J Cell Sci** 1996 May;109 (Pt 5):1063-9

Control by basal phosphorylation of cell cycle-dependent, hormone-induced glucocorticoid receptor hyperphosphorylation. Hu JM, et al. **Mol Endocrinol** 1997 Mar;11(3):305-11

HOX11 interacts with protein phosphatases PP2A and PP1 and disrupts a G2/M cell-cycle checkpoint. Kawabe T, et al. **Nature** 1997 Jan 30;385(6615):454-8

Uncoupling of DNA replication and cell cycle progression by human cyclin E. Mumberg D, et al. **Oncogene** 1996 Dec 5;13(11):2493-7

RADIATION EFFECTS

Radioresistance induced by the high molecular forms of the basic fibroblast growth factor is associated with an increased G2 delay and a hyperphosphorylation of p34CDC2 in HeLa cells. Cohen-Jonathan E, et al. **Cancer Res** 1997 Apr 1;57(7):1364-70

Cyclin B1 availability is a rate-limiting component of the radiation-induced G2 delay in HeLa cells. Kao GD, et al. **Cancer Res** 1997 Feb 15;57(4):753-8

Human papillomavirus E6 and E7 oncoproteins alter cell cycle progression but not radiosensitivity of carcinoma cells treated with low-dose-rate radiation. DeWeese TL, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):145-54

Subadditive interaction of radiation and Taxol in vitro. Ingram ML, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1139-44

Role of tyrosine phosphorylation in radiation-induced cell cycle-arrest of leukemic B-cell precursors at the G2-M transition checkpoint. Tuel-Ahlgren L, et al. **Leuk Lymphoma** 1996 Feb;20(5-6):417-26

Ultraviolet light-induced G2 phase cell cycle checkpoint blocks cdc25-dependent progression into mitosis. Gabrielli BG, et al. **Oncogene** 1997 Aug 14;15(7):749-58

Effect of caffeine on gamma-ray induced G2 arrest in well-synchronized Chinese hamster ovary cells in vitro. Masunaga S, et al. **Radiat Med** 1996 Nov-Dec;14(6):309-13

Intact G2-phase checkpoint in cells of a human cell line lacking DNA-dependent protein kinase activity. Allalunis-Turner J, et al. **Radiat Res** 1997 Mar;147(3):284-7

Exit from G2 phase after 2 Gy gamma irradiation is faster in radiosensitive human cells with high expression of the RAF1 proto-oncogene. Warenius HM, et al. **Radiat Res** 1996 Nov;146(5):485-93

G-ACTIN see **ACTINS**

G-CSF see **GRANULOCYTE COLONY-STIMULATING FACTOR**

G-CSF RECEPTORS see **RECEPTORS, GRANULOCYTE COLONY-STIMULATING FACTOR**

G-CSF, RECOMBINANT see **GRANULOCYTE COLONY STIMULATING FACTOR, RECOMBINANT**

G-CSF RECOMBINANT, HUMAN METHIONYL see **FILGRASTIM**

G FORCE see **GRAVITATION**

G PERIODS see **INTERPHASE**

G PHASES see **INTERPHASE**

G-PROTEIN, INHIBITORY GI

ANALYSIS

Ontogeny of GTP-binding proteins, Gi and G(o), in rat retina. Oguni M, et al. **Histochem Cell Biol** 1996 Aug; 106(2):235-40

BIOSYNTHESIS

Alteration of G alpha subunits mRNA levels in bromocriptine resistant prolactinomas. Caccavelli L, et al. **J Neuroendocrinol** 1996 Oct;8(10):737-46

alpha-Thrombin upregulates G alpha i3 in human vascular endothelial cells. Shreeve SM, et al. **Stroke** 1996 Dec; 27(12):2211-5

CHEMISTRY

Structure of RGS4 bound to AlF4--activated G(i alpha1): stabilization of the transition state for GTP hydrolysis. Tesmer JJ, et al. **Cell** 1997 Apr 18;89(2):251-61

Structure of the GDP-Pi complex of Gly203--->Ala gialpha1: a mimic of the ternary product complex of galpha-catalyzed GTP hydrolysis. Berghuis AM, et al. **Structure** 1996 Nov 15;4(11):1277-90

GENETICS

A cysteine-3 to serine mutation of the G-protein Gi1 alpha abrogates functional activation by the alpha 2A-adrenoceptor but not interactions with the beta gamma complex. Wise A, et al. **Biochemistry** 1997 Sep 2; 36(35):10620-9

Enhanced expression of Gi-protein precedes the development of blood pressure in spontaneously hypertensive rats. Marcil J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1009-22

METABOLISM

Regulation of the human Gi alpha-2 gene promotor activity in embryonic chicken cardiomyocytes. Eschenhagen T, et al. **Basic Res Cardiol** 1996;91 Suppl 2:41-6

Evidence for a dual control of macroautophagic sequestration and intracellular trafficking of N-linked glycoproteins by the trimeric G(i3) protein in HT-29 cells. Ogier-Denis E, et al. **Biochem Biophys Res Commun** 1997 Jun 9; 235(1):166-70

1 alpha,25-(OH)2-vitamin D3 stimulates the adenylyl cyclase pathway in muscle cells by a GTP-dependent mechanism which presumably involves phosphorylation of G alpha i. Vazquez G, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):125-8

Measurement of agonist-induced guanine nucleotide turnover by the G-protein Gi1alpha when constrained within an alpha2A-adrenoceptor-Gi1alpha fusion protein. Wise A, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):17-21

The thrombin receptor in adrenal medullary microvascular endothelial cells is negatively coupled to adenylyl cyclase through a Gi protein. Manolopoulos VG, et al. **Biochim Biophys Acta** 1997 May 27;1356(3):321-32

Expression of pertussis toxin adenosine diphosphate-ribosyltransferase in a T-cell hybridoma reduces metastatic capacity. Driessens MH, et al. **Blood** 1996 Oct 15;88(8):3116-23

GUST27 and closely related G-protein-coupled receptors are localized in taste buds together with Gi-protein alpha-subunit. Kusakabe Y, et al. **Chem Senses** 1996 Jun; 21(3):335-40

Gi-mediated activation of the Ras/MAP kinase pathway involves a 100 kDa tyrosine-phosphorylated Grb2 SH3 binding protein, but not Src nor Shc. Kranenburg O, et al. **EMBO J** 1997 Jun 2;16(11):3097-105

Proliferin induces endothelial cell chemotaxis through a G protein-coupled, mitogen-activated protein kinase-dependent pathway. Groskopf JC, et al. **Endocrinology** 1997 Jul;138(7):2835-40

The C-terminal domain of the Gs-coupled EP4 receptor confers agonist-dependent coupling control to Gi but no coupling to Gs in a receptor hybrid with the Gi-coupled EP3 receptor. Neuschäfer-Rube F, et al. **FEBS Lett** 1997 Jan 20;401(2-3):185-90

Enhanced G-protein-induced relaxation in portal hypertensive rats: role of nitric oxide. Hou MC, et al. **Hepatology** 1997 Jul;26(1):27-33

Voltage-dependent calcium channels and Gi regulatory protein mediate the human sperm acrosomal exocytosis induced by N-acetylglucosaminyl/mannosyl neoglycoproteins. Brandelli A, et al. **J Androl** 1996 Sep-Oct;17(5):522-9

Severe dietary magnesium deficiency does not alter levels and function of myocardial Gs alpha and Gi alpha. Shi B, et al. **J Appl Physiol** 1996 Jul;81(1):335-40

Autoacylation of G protein alpha subunits. Duncan JA, et al. **J Biol Chem** 1996 Sep 20;271(38):23594-600

Differential coupling of muscarinic m2 and m3 receptors to adenylyl cyclases V/VI in smooth muscle. Concurrent M2-mediated inhibition via Galphai3 and m3-mediated stimulation via Gbetagammaq. Murthy KS, et al. **J Biol Chem** 1997 Aug 22;272(34):21317-24

Differential regulation of type I and type VIII Ca2+-stimulated adenylyl cyclases by Gi-coupled receptors in vivo. Nielsen MD, et al. **J Biol Chem** 1996 Dec 27;271(52):33308-16

Galpha12 and galpha13 are phosphorylated during platelet activation. Offermanns S, et al. **J Biol Chem** 1996 Oct 18; 271(42):26044-8

Analysis of lysophosphatidylcholine-induced endothelial dysfunction. Freeman JE, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):345-52

Agonist-independent tonic inhibitory influence of Gi on adenylate cyclase activity in rabbit ventricular myocardium and its removal by pertussis toxin: a role of empty receptor-mediated Gi activation. Akaishi Y, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):765-75

Functional coupling of Gi subtype with GABAB receptor/adenylyl cyclase system: analysis using a reconstituted system with purified GTP-binding protein from bovine cerebral cortex. Nishikawa M, et al. **Neurochem Int** 1997 Jul;31(1):21-5

PHYSIOLOGY

Angiotensin II stimulates T-type Ca2+ channel currents via activation of a G protein, Gi. Lu HK, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1340-9

Recombinant human eotaxin induces oxygen radical production, Ca(2+)-mobilization, actin reorganization, and CD11b upregulation in human eosinophils via a pertussis toxin-sensitive heterotrimeric guanine nucleotide-binding protein. Tenscher K, et al. **Blood** 1996 Oct 15;88(8):3195-9

The G-protein G(i) regulates mitosis but not DNA synthesis in growth factor-activated fibroblasts: a role for the nuclear translocation of G(i). Crouch MF, et al. **FASEB J** 1997 Feb;11(2):189-98

Mast cell adenosine induced calcium mobilization via Gi3 and Gq proteins. Hoffman HM, et al. **Inflammation** 1997 Feb;21(1):55-68

Differentiation of F9 teratocarcinoma stem cells to primitive endoderm is regulated by the Gialpha2/Gsalpha axis via phospholipase C and not adenylylcyclase. Gao P, et al. **J Biol Chem** 1996 Nov 29;271(48):30692-8

G(alpha)i2-deficient mice with colitis exhibit a local increase in memory CD4+ T cells and proinflammatory Th1-type cytokines. Hörnquist CE, et al. **J Immunol** 1997 Feb 1; 158(3):1068-77

The role of Gi-proteins and beta-adrenoceptors in the age-related decline of contraction in guinea-pig ventricular myocytes. Ferrara N, et al. **J Mol Cell Cardiol** 1997 Feb; 29(2):439-48

m3 Muscarinic receptor-induced and Gi-mediated heterologous potentiation of phospholipase C stimulation:

role of phosphoinositide synthesis. Schmidt M, et al. **Mol Pharmacol** 1996 Oct;50(4):1038–46

G-PROTEIN, INHIBITORY GT see **TRANSDUCIN**

G-PROTEIN, STIMULATORY GS

BLOOD

Normal erythrocyte membrane Gs alpha bioactivity in two unrelated patients with acrodysostosis. Wilson LC, et al. **J Med Genet** 1997 Feb;34(2):133–6

CHEMISTRY

Identification of A2a adenosine receptor domains involved in selective coupling to Gs. Analysis of chimeric A1/A2a adenosine receptors. Olah ME. **J Biol Chem** 1997 Jan 3; 272(1):337–44

DRUG EFFECTS

An anaesthetic dose of ethanol inhibits cyclic AMP formation by altering the function of GS protein. Ichida T, et al. **Alcohol Alcohol** 1997 Mar–Apr;32(2):153–60

G-protein(S), G alpha q/G alpha 11, in the olfactory neuroepithelium of the channel catfish (Ictalurus punctatus) is altered by the herbicide, dichlobenil. Andreini I, et al. **Toxicology** 1997 Feb 28;117(2–3):111–22

GENETICS

No abnormality in the gene for the G protein stimulatory alpha subunit in patients with bipolar disorder. Ram A, et al. **Arch Gen Psychiatry** 1997 Jan;54(1):44–8

Stimulatory G-protein alpha-subunit mRNA levels are not increased in autopsied cerebral cortex from patients with bipolar disorder. Young LT, et al.
Brain Res Mol Brain Res 1996 Nov;42(1):45–50

Absence of G(s)alpha gene mutations in childhood thyroid tumors after Chernobyl in contrast to sporadic adult thyroid neoplasia. Waldmann V, et al. **Cancer Res** 1997 Jun 15;57(12):2358–61

Targeted disruption of Gnas in embryonic stem cells. Schwindinger WF, et al. **Endocrinology** 1997 Oct; 138(10):4058–63

Structure and expression of the gsa-1 gene encoding a G protein alpha(s) subunit in C. elegans. Park JH, et al. **Gene** 1997 Jul 31;194(2):183–90

Molecular cloning of human G alpha q cDNA and chromosomal localization of the G alpha q gene (GNAQ) and a processed pseudogene. Dong Q, et al. **Genomics** 1995 Dec 10;30(3):470–75

Glomerular-specific imprinting of the mouse gsalpha gene: how does this relate to hormone resistance in albright hereditary osteodystrophy? Williamson CM, et al.
Genomics 1996 Sep 1;36(2):280–7

Human beta2-adrenergic receptor/GS alpha fusion protein, expressed in 2 ras-dependent murine carcinoma cell lines, prevents tumor growth in syngeneic mice. Bertin B, et al. **Int J Cancer** 1997 Jun 11;71(6):1029–34

Gs alpha mutation at codon 201 in pituitary adenoma causing gigantism in a 6-year-old boy with McCune–Albright syndrome. Dötsch J, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3839–42

An amphotropic retroviral vector expressing a mutant gsp oncogene: effects on human thyroid cells in vitro. Ivan M, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2702–9

Diversity and prevalence of somatic mutations in the thyrotropin receptor and Gs alpha genes as a cause of toxic thyroid adenomas. Parma J, et al.
J Clin Endocrinol Metab 1997 Aug;82(8):2695–701

Structural studies of the thyrotropin receptor and Gs alpha in human thyroid cancers: low prevalence of mutations predicts infrequent involvement in malignant transformation. Spambalg D, et al.
J Clin Endocrinol Metab 1996 Nov;81(11):3898–901

Enhanced expression of Gi-protein precedes the development of blood pressure in spontaneously hypertensive rats. Marcil J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1009–22

Comparison of nucleic and amino acid sequences and phylogenetic analysis of the Gs protein of various equine arteritis virus isolates. Lepage N, et al. **Virus Genes** 1996; 13(1):87–91

METABOLISM

Enhanced degradation of stimulatory G-protein (Gs alpha) by cholera toxin is mediated by ADP-ribosylation of Gs alpha protein but not by increased cyclic AMP levels. Shah BH. **Adv Exp Med Biol** 1997;419:93–7

Effect of ethanol treatment on the activity and amount of stimulatory GTP-binding regulatory protein (Gs) in S49 murine lymphoma cells and human erythrocytes. Nakamura J. **Alcohol Alcohol** 1994;29 Suppl 1:61–5

The heterotrimeric GTP-binding protein, GS, modulates the Cl- conductance of rat parotid acinar secretory granules. Watson EL, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):638–42

Evidence for the shuttle model for Gs alpha activation of adenylyl cyclase. Krumins AM, et al.
Biochem Pharmacol 1997 Jul 1;54(1):43–59

Examination of the effects of increasing Gs protein on beta2-adrenergic receptor, Gs, and adenylyl cyclase interactions. Krumins AM, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):61–72

The stoichiometry of G alpha(s) palmitoylation in its basal and activated states. Jones TL, et al. **Biochemistry** 1997 Jun 10;36(23):7185–91

A Gs-selective analog of the receptor-mimetic peptide mastoparan binds to Gs alpha in a kinked helical conformation. Sukumar M, et al. **Biochemistry** 1997 Mar 25;36(12):3632–9

Overexpression of G(s)alpha in NG108-15, neuroblastomaXglioma cells: effects on receptor regulation of the stimulatory adenylyl cyclase cascade. Mullaney I, et al. **FEBS Lett** 1996 Nov 18;397(2–3):325–30

The C-terminal domain of the Gs-coupled EP4 receptor confers agonist-dependent coupling control to Gi but no coupling to Gs in a receptor hybrid with the Gi-coupled EP3 receptor. Neuschäfer-Rube F, et al. **FEBS Lett** 1997 Jan 20;401(2–3):185–90

Severe dietary magnesium deficiency does not alter levels and function of myocardial Gs alpha and Gi alpha. Shi B, et al. **J Appl Physiol** 1996 Jul;81(1):335–40

Tyrosine phosphorylation of GSalpha and inhibition of bradykinin-induced activation of the cyclic AMP pathway in A431 cells by epidermal growth factor receptor. Liebmann C, et al. **J Biol Chem** 1996 Dec 6; 271(49):31098–105

The juxtamembrane, cytosolic region of the epidermal growth factor receptor is involved in association with alpha-subunit of Gs. Sun H, et al. **J Biol Chem** 1997 Feb 28;272(9):5413–20

Interaction of Gsalpha with the cytosolic domains of mammalian adenylyl cyclase. Sunahara RK, et al.
J Biol Chem 1997 Aug 29;272(35):22265–71

First intracellular loop of the human cholecystokinin-A receptor is essential for cyclic AMP signaling in transfected HEK-293 cells. Wu V, et al. **J Biol Chem** 1997 Apr 4; 272(14):9037–42

Three discrete regions of mammalian adenylyl cyclase form a site for Gsalpha activation. Yan SZ, et al.
J Biol Chem 1997 Jul 25;272(30):18849–54

Activation-induced subcellular redistribution of Gs alpha. Wedegaertner PB, et al. **Mol Biol Cell** 1996 Aug; 7(8):1225–33

Inhibition of the T-type Ca2+ current by the dopamine D1 receptor in rat adrenal glomerulosa cells: requirement of the combined action of the G betagamma protein subunit and cyclic adenosine 3',5'-monophosphate. Drolet P, et al. **Mol Endocrinol** 1997 Apr;11(4):503–14

Increased expression of Gs(alpha) enhances activation of the adenylyl cyclase signal transduction cascade. Yang X, et al. **Mol Endocrinol** 1997 Jul;11(8):1053–61

Beta-adrenoreceptor coupling to GS protein in alcohol dependence, panic disorder, and patients with both conditions. Gurguis GN, et al.
Neuropsychopharmacology 1997 Jan;16(1):69–76

Reciprocal regulation of Gs alpha by palmitate and the beta gamma subunit. Iiri T, et al.
Proc Natl Acad Sci U S A 1996 Dec 10;93(25):14592–7

Activation of protein kinase A-independent pathways by Gs alpha in Drosophila. Wolfgang WJ, et al.
Proc Natl Acad Sci U S A 1996 Dec 10;93(25):14542–7

Activation of a beta 2-adrenergic receptor/Gs alpha fusion protein elicits a desensitization-resistant cAMP signal capable of inhibiting proliferation of two cancer cell lines. Bertin B, et al. **Receptors Channels** 1997;5(1):41–51

Associative learning disrupted by impaired Gs signaling in Drosophila mushroom bodies. Connolly JB, et al.
Science 1996 Dec 20;274(5295):2104–7

PHYSIOLOGY

Histamine H2 receptor activates adenylate cyclase and PLC via separate GTP-dependent pathways. Wang L, et al.
Am J Physiol 1996 Oct;271(4 Pt 1):G613–20

Mast cell adenosine induced calcium mobilization via Gi3 and Gq proteins. Hoffman HM, et al. **Inflammation** 1997 Feb;21(1):55–68

Differentiation of F9 teratocarcinoma stem cells to primitive endoderm is regulated by the Gialpha2/Gsalpha axis via phospholipase C and not adenylylcyclase. Gao P, et al.
J Biol Chem 1996 Nov 29;271(48):30692–8

Differential regulation of adenylyl cyclases by Galphas. Harry A, et al. **J Biol Chem** 1997 Jul 25;272(30):19017–21

Altered beta-adrenergic receptor signaling in heart failure, in vivo gene transfer via adeno and adeno-associated virus. Ping P, et al. **Microcirculation** 1996 Jun;3(2):225–8

Reduced Gs protein function and G alpha s levels in leukocytes of patients with Parkinson's disease. Avissar S, et al. **Mov Disord** 1997 Mar;12(2):167–74

G-PROTEINS

Mechanisms of inhibition of insulin release. Sharp GW.
Am J Physiol 1996 Dec;271(6 Pt 1):C1781–99 (135 ref.)

Do recombinant receptor assays provide affinity and potency estimates? Bockaert J, et al. **Ann N Y Acad Sci** 1997 May 30;812:55–70 (27 ref.)

Do recent operational studies indicate that a single state model is no longer applicable to G protein-coupled receptors? Bond RA. **Ann N Y Acad Sci** 1997 May 30; 812:92–7 (24 ref.)

The alpha and omega of G protein-coupled receptors. A novel method for classification. Moereels H, et al.
Ann N Y Acad Sci 1997 May 30;812:147–8 (3 ref.)

Focal adhesions, contractility, and signaling. Burridge K, et al. **Ann Rev Cell Dev Biol** 1996;12:463–518 (385 ref.)

Distribution of serum autoantibodies against G-protein-coupled cardiovascular receptors in Japanese patients with cardiomyopathy. Matsui S, et al.
Blood Press Suppl 1996;3:28–30

Organization of transmembrane signalling by heterotrimeric G proteins. Offermanns S, et al. **Cancer Surv** 1996;27:177–98 (129 ref.)

G protein coupled R7G receptors. Strosberg AD.
Cancer Surv 1996;27:65–83 (44 ref.)

Rho GTPases and leukocyte cytoskeletal regulation. Dharmawardhane S, et al. **Curr Opin Hematol** 1997 Jan; 4(1):12–8 (83 ref.)

Rho GTPases and signaling networks. Van Aelst L, et al. **Genes Dev** 1997 Sep 15;11(18):2295–322 (295 ref.)

Structural basis of autoimmunity against G protein coupled membrane receptors. Hoebeke J. **Int J Cardiol** 1996 May; 54(2):103–11 (53 ref.)

Constitutively active G protein-coupled receptors: potential mechanisms of receptor activation. Scheer A, et al.
J Recept Signal Transduct Res 1997 Jan–May;17(1–3):57–73 (46 ref.)

Identification and characterization of a G protein-coupled receptor homolog encoded by murine cytomegalovirus. Davis-Poynter NJ, et al. **J Virol** 1997 Feb;71(2):1521–9

The alpha and omega of G-protein coupled receptors: a novel method for classification. Part 1. Moereels H, et al.
Receptors Channels 1996;4(1):19–30

Identification of the human cytomegalovirus G protein-coupled receptor homologue encoded by UL33 in infected cells and enveloped virus particles. Margulies BJ, et al. **Virology** 1996 Nov 1;225(1):111–25

[Phosphatidylinositol 3-kinase and low molecular weight GTP-binding proteins] Kodaki T. **Seikagaku** 1996 Nov; 68(11):1704–8 (23 ref.) **(Jpn)**

[RalGDS mediates an intracellular signal-transduction system from a proto-oncogene product Ras] Koyama S, et al. **Seikagaku** 1996 Oct;68(10):1646–50 (20 ref.) **(Jpn)**

AGONISTS

G16 as a universal G protein adapter: implications for agonist screening strategies. Milligan G, et al.
Trends Pharmacol Sci 1996 Jul;17(7):235–7 (26 ref.)

ANALYSIS

Localization of G-proteins in macrophages and E. coli during phagocytosis. Didenko LW, et al. **Acta Histochem** 1996 Nov;98(4):399–409

Rab3D localizes to zymogen granules in rat pancreatic acini and other exocrine glands. Ohnishi H, et al.
Am J Physiol 1996 Sep;271(3 Pt 1):G531–8

Subcellular localization of G-protein alpha subunits in adult rat islets. Astesano A, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:549–54

Differential localization of G-proteins, G alpha o and G alpha i-1, -2, and -3, in polarized epithelial MDCK cells. Hamilton SE, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):1–7

A close association of GM3 with c-Src and Rho in GM3-enriched microdomains at the B16 melanoma cell surface membrane: a preliminary note. Yamamura S, et al.
Biochem Biophys Res Commun 1997 Jul 9;236(1):218–22

Two Rab proteins, vesicle-associated membrane protein 2 (VAMP-2) and secretory carrier membrane proteins (SCAMPs), are present on immunoisolated parietal cell tubulovesicles. Calhoun BC, et al. **Biochem J** 1997 Jul 15; 325 (Pt 2):559–64

Identification and subcellular distribution of the Gi-proteins in the enterocytic-differentiated adenocarcinoma cell-line, Caco-2. Lacombe C, et al. **Biol Cell** 1996;88(3):123–9

Subclasses of vomeronasal receptor neurons: differential expression of G proteins (Gi alpha 2 and G(o alpha)) and segregated projections to the accessory olfactory bulb. Jia C, et al. **Brain Res** 1996 May 6;719(1–2):117–28

Rab3A immunolocalization in the mammalian vestibular end-organs during development and comparison with synaptophysin expression. Dechesne CJ, et al.
Brain Res Dev Brain Res 1997 Mar 17;99(1):103–11

An evaluation of strategies available for the identification of GTP-binding proteins required in intracellular signalling pathways. Barritt GJ, et al. **Cell Signal** 1997 May–Jun; 9(3–4):207–18 (115 ref.)

Evidence for the presence of G-proteins, adenylyl cyclase and phospholipase C activities in lymphatic smooth muscle cell membranes. Kelly J, et al. **Cell Signal** 1996 Sep; 8(6):425–32

G-protein activation, identification and immunolocalization in pheromone-sensitive sensilla trichodea of moths. Laue M, et al. **Cell Tissue Res** 1997 Apr;288(1):149–58

Identification of ADP-ribosylation factor-6 in brush-border membrane and early endosomes of human kidney proximal tubules. Marshansky V, et al. **Electrophoresis** 1997 Mar–Apr;18(3–4):538–47

Association of the G protein alpha(q)/alpha11-subunit with cytoskeleton in adrenal glomerulosa cells: role in receptor-effector coupling. Côté M, et al. **Endocrinology** 1997 Aug;138(8):3299–307

Association of alpha S-subunit of the GS protein with

microfilaments and microtubules: implication during adrenocorticotropin stimulation in rat adrenal glomerulosa cells. Côté M, et al. **Endocrinology** 1997 Jan;138(1):69–78

Rab3 proteins and SNAP-25, essential components of the exocytosis machinery in conventional synapses, are absent from ribbon synapses of the mouse retina. Grabs D, et al. **Eur J Neurosci** 1996 Jan;8(1):162–8

The Ras Guanine nucleotide Exchange Factor CDC25Mm is present at the synaptic junction. Sturani E, et al. **Exp Cell Res** 1997 Aug 25;235(1):117–23

Subcellular localization of the small GTPase Rab5a in resting and stimulated human neutrophils [published erratum appears in Exp Cell Res 1997 Feb 1;230(2):415] Vita F, et al. **Exp Cell Res** 1996 Sep 15;227(2):367–73

Ultrastructural localization of G-protein GS in the lateral wall of the guinea pig cochlear duct. Mizuta K, et al. **Hear Res** 1996 Apr;93(1-2):111–9

Ontogeny of GTP-binding proteins, Gi and G(o), in rat retina. Oguni M, et al. **Histochem Cell Biol** 1996 Aug; 106(2):235–40

Identifying the G protein, Gz alpha, and its associated proteins in nervous tissue using mass spectrometry and microsequencing techniques. Bartlett SE, et al. **Int J Dev Neurosci** 1997 Jun;15(3):267–74

Identification of G-protein alpha-subunits during distinct stages of lens cell differentiation. Ireland ME, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):241–8

Structure and intracellular localization of mouse ADP-ribosylation factors type 1 to type 6 (ARF1–ARF6). Hosaka M, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):813–9

Changes in beta-adrenoceptors and G-proteins during the transition from cardiac hypertrophy to heart failure. Flesch M, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S35–43 (64 ref.)

Endothelial Gi protein expression is markedly low in human coronary microvessels. Shimokawa H, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):297–302

Subcellular localization of G-proteins in primary-cultured mouse preadipocytes and adipocytes. Begin-Heick N, et al. **J Cell Biochem** 1997 May;65(2):259–66

The clustering of telomeres and colocalization with Rap1, Sir3, and Sir4 proteins in wild-type Saccharomyces cerevisiae. Gotta M, et al. **J Cell Biol** 1996 Sep; 134(6):1349–63

Immunoelectron microscopy shows a clustered distribution of NADPH oxidase components in the human neutrophil plasma membrane. Wientjes FB, et al. **J Leukoc Biol** 1997 Mar;61(3):303–12

Synaptic pathology in Alzheimer's disease: relation to severity of dementia, but not to senile plaques, neurofibrillary tangles, or the ApoE4 allele. Blennow K, et al. **J Neural Transm Gen Sect** 1996;103(5):603–18

Differential localization of the gamma 3 and gamma 12 subunits of G proteins in the mammalian brain. Morishita R, et al. **J Neurochem** 1997 Feb;68(2):820–7

Chronic fluoxetine induces a gradual desensitization of 5-HT1A receptors: reductions in hypothalamic and midbrain Gi and G(o) proteins and in neuroendocrine responses to a 5-HT1A agonist. Li Q, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):1035–42

A desensitization of hypothalamic 5-HT1A receptors by repeated injections of paroxetine: reduction in the levels of G(i) and G(o) proteins and neuroendocrine responses, but not in the density of 5-HT1A receptors. Li Q, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1581–90

ADP-ribosylation of G alpha i and G alpha o in pituitary cells enhances their recognition by antibodies directed against their carboxyl termini. Cussac D, et al. **J Recept Signal Transduct Res** 1996 May-Jul; 16(3-4):169–90

Expression of angiotensin II type-I receptor and phospholipase C-linked G alpha q/11 protein in the human placenta. Petit A, et al. **J Soc Gynecol Investig** 1996 Nov-Dec;3(6):316–21

Covalent modification of G proteins by affinity labeling. Hohenegger M, et al. **Methods Mol Biol** 1997;83:179–90 (12 ref.)

Identification and quantitation of G protein alpha-subunits. Mullaney I, et al. **Methods Mol Biol** 1997;83:159–77

Rho proteins are localized with different membrane compartments involved in vesicular trafficking in anterior pituitary cells. Cussac D, et al. **Mol Cell Endocrinol** 1996 May 31;119(2):195–206

FtsZ-spirals and -arcs determine the shape of the invaginating septa in some mutants of Escherichia coli. Addinall SG, et al. **Mol Microbiol** 1996 Oct;22(2):231–7

A somatodendritic distribution of Rab11 in rabbit brain neurons. Sheehan D, et al. **Neuroreport** 1996 May 17; 7(7):1297–300

G protein subunit levels in fibroblasts from familial Alzheimer's disease patients: lower levels of high molecular weight Gs alpha isoform in patients with decreased beta-adrenergic receptor stimulated cAMP formation. Shanahan C, et al. **Neurosci Lett** 1997 Aug 22;232(1):33–6

G-proteins in guinea pig airway smooth muscle: identification and functional involvement. Joshi S, et al. **Pharmacol Res** 1996 Mar;33(3):195–202

Asymmetrical distribution of G proteins in syncytiotrophoblastic brush-border and basal-plasma membranes of human term placenta. el Mabrouk M, et al. **Placenta** 1996 Sep;17(7):471–7

Differential immunohistochemical labeling of Gs, G(il) and 2, and G(o) alpha-subunits in rat forebrain. Okuhara DY, et al. **Synapse** 1996 Aug;23(4):246–57

ANTAGONISTS & INHIBITORS

ARF-independent inhibition of the carbachol-induced contractions by brefeldin A in intestinal smooth muscle. Loirand G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C816–21

A small region in phosducin inhibits G-protein betagamma-subunit function. Blüml K, et al. **EMBO J** 1997 Aug 15;16(16):4908–15

ATP-regulated K+ channel and cytosolic Ca2+ mobilization in cultured rat spinal neurons. Ikeuchi Y, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):163–9

Amitriptyline inhibits the G protein and K+ channel in the cloned thyroid cell line. Yoshida A, et al. **Eur J Pharmacol** 1996 Sep 19;312(1):115–9

Inhibitors of G-proteins and protein kinases reduce the sensitization to mechanical stimulation and the desensitization to heat of spinothalamic tract neurons induced by intradermal injection of capsaicin in the primate. Sluka KA, et al. **Exp Brain Res** 1997 Jun; 115(1):15–24

Inhibition of G protein in human sperm and its influence on acrosome reaction and zona pellucida binding. Franken DR, et al. **Fertil Steril** 1996 Dec;66(6):1009–11

Morphine and muscle relaxants are receptor-independent G-protein activators and cromolyn is an inhibitor of stimulated G-protein activity. Klinker JF, et al. **Inflamm Res** 1997 Feb;46(2):46–50

Modulation of bradykinin receptor ligand binding affinity and its coupled G-proteins by nitric oxide. Miyamoto A, et al. **J Biol Chem** 1997 Aug 1;272(31):19601–8

Interaction of phosducin-like protein with G protein betagamma subunits. Thibault C, et al. **J Biol Chem** 1997 May 9;272(19):12253–6

Latencies of calcium elevation and depolarization in Limulus ventral photoreceptors injected with GDP-beta S. Payne R, et al. **J Photochem Photobiol B** 1996 Aug;35(1-2):91–5

The effects of G-protein and protein kinase inhibitors on the behavioral responses of rats to intradermal injection of capsaicin. Sluka KA, et al. **Pain** 1997 Jun;71(2):165–78

An Arabidopsis gene isolated by a novel method for detecting genetic interaction in yeast encodes the GDP dissociation inhibitor of Ara4 GTPase. Ueda T, et al. **Plant Cell** 1996 Nov;8(11):2079–91

Targeted inactivation of alphai2 or alphai3 disrupts activation of the cardiac muscarinic K+ channel, IK+Ach, in intact cells. Sowell MO, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7921–6

BIOSYNTHESIS

Chronic ethanol effects on the expression of phospholipase C isozymes and Gq/11-protein in primary cultures of astrocytes. Pandey SC, et al. **Alcohol** 1996 Sep-Oct; 13(5):487–92

Nitric oxide synthase inhibition by N(omega)-nitro-L-arginine methyl ester modulates G-protein expression and adenylyl cyclase activity in rat heart. Di Fusco F, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):471–5

Modulation of G-protein expression by the angiotensin converting enzyme inhibitor captopril in hearts from spontaneously hypertensive rats. Relationship with adenylyl cyclase. Pandey SK, et al. **Am J Hypertens** 1996 Aug;9(8):833–7

Expression of the TSC2 product tuberin and its target Rap1 in normal human tissues. Wienecke R, et al. **Am J Pathol** 1997 Jan;150(1):43–50

Dexamethasone increases G alpha q-11 expression and hormone-stimulated phospholipase C activity in UMR-106-01 cells. Mitchell J, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E528–35

A generic method for the production of cell lines expressing high levels of 7-transmembrane receptors. Koller KJ, et al. **Anal Biochem** 1997 Jul 15;250(1):51–60

Evidence of G-protein alpha s and alpha olf subunits in developing human pancreas. Ferrand N, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:563–9

Molecular cloning of novel small GTP-binding proteins in rat liver. Nagahara H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:531–2

Cell-cycle regulated expression of Rap1 in regenerating liver. Cruise JL, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):578–81

Cloning of the RhoB gene from the mouse genome and characterization of its promoter region. Nakamura T, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):688–94

Up-regulation of rho A and rho-kinase mRNAs in the rat myometrium during pregnancy. Niiro N, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):356–9

Expression of the murine RanBP1 and Htf9-c genes is regulated from a shared bidirectional promoter during cell cycle progression. Guarguaglini G, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):277–86

Abnormal expression of the B-cell homing chemokine receptor BLR1 during the progression of acquired immunodeficiency syndrome. Förster R, et al. **Blood** 1997 Jul 15;90(2):520–5

Chronic treatment with a synthetic cannabinoid CP-55,940 alters G-protein expression in the rat central nervous system. Rubino T, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):191–7

Coincident induction of K rev-1/rap 1A, rap 1B and H-ras mRNAs in the rat spinal cord by noxious stimulation. Urayama O, et al. **Brain Res Mol Brain Res** 1997 May; 45(2):331–4

Differential expression of Rho family GTP-binding proteins and protein kinase C isozymes during C6 glial cell differentiation. Yoshimura S, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):90–8

The role of prenylation in G-protein assembly and function. Higgins JB, et al. **Cell Signal** 1996 Sep;8(6):433–7 (50 ref.)

Muscle Rad expression and human metabolism: potential role of the novel Ras-related GTPase in energy expenditure and body composition. Garvey WT, et al. **Diabetes** 1997 Mar;46(3):444–50

Experimental diabetes induces an early change in the level of the G-protein subunit, alpha i2, in rat intestinal mucosa. Lacombe CR, et al. **Diabetes Metab** 1996 Dec;22(6):432–8

The G-protein gamma-subunit G gamma 8 is expressed in the developing axons of olfactory and vomeronasal neurons. Tirindelli R, et al. **Eur J Neurosci** 1996 Nov; 8(11):2388–98

Differential expression pattern of Rab-GDI isoforms during the parotid gland secretion cycle. Benhar M, et al. **Exp Cell Res** 1997 May 25;233(1):207–15

Acanthocheilonema viteae: stage-specific expression of G-protein alpha-subunits. Grant KR, et al. **Exp Parasitol** 1997 Jul;86(3):219–27

Monoclonal antibodies that distinguish between free and complexed heterotrimeric G protein beta subunits. Rehm A, et al. **FEBS Lett** 1997 Feb 3;402(2–3):277–85

A Francisella tularensis DNA clone complements Escherichia coli defective for the production of Era, an essential Ras-like GTP-binding protein. Zuber M, et al. **Gene** 1997 Apr 11;189(1):31–4

A novel form of the G protein beta subunit Gbeta5 is specifically expressed in the vertebrate retina. Watson AJ, et al. **J Biol Chem** 1996 Nov 8;271(45):28154–60

Diverse expression of G-proteins in human sarcoma cell lines with different osteogenic potential: evidence for the involvement of Gi2 in cell proliferation. Gordeladze JO, et al. **J Cell Biochem** 1996 Jan;60(1):95–106

Assembly and intracellular targeting of the betagamma subunits of heterotrimeric G proteins. Rehm A, et al. **J Cell Biol** 1997 Apr 21;137(2):305–17

Increased expression of inhibitory guanine nucleotide binding proteins in membranes from renal proximal tubules, but not brain striata, of the normotensive and the spontaneously hypertensive rat. White BH, et al. **J Hypertens** 1996 Nov; 14(11):1281–5

Mouse bone marrow-derived mast cells undergo exocytosis, prostanoid generation, and cytokine expression in response to G protein-activating polybasic compounds after coculture with fibroblasts in the presence of c-kit ligand. Ogasawara T, et al. **J Immunol** 1997 Jan 1;158(1):393–404

TNF translationally modulates the expression of G1 protein alpha(i2) subunits in human polymorphonuclear leukocytes. Scherzer JA, et al. **J Immunol** 1997 Jan 15;158(2):913–8

Molecular cloning of a Rho family, CDC42Ca gene from Candida albicans and its mRNA expression changes during morphogenesis. Mirbod F, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):173–9

G protein expression in human fetoplacental vascularization. Functional evidence for Gs alpha and Gi alpha subunits. Bourgeois C, et al. **J Mol Cell Cardiol** 1996 May; 28(5):1009–21

Age-related decrease in responsiveness to L-DOPA is not due to changes in dopamine receptor mRNAs or G protein mRNAs. Murata M, et al. **J Neural Transm** 1996; 103(3):343–8

Differential expression of rab3 isoforms in oligodendrocytes and astrocytes. Madison DL, et al. **J Neurosci Res** 1996 Aug 1;45(3):258–68

A rab-related GTP-binding protein in Schistosoma mansoni. Loeffler IK, et al. **Mol Biochem Parasitol** 1996 Apr; 77(1):31–40

ZDS1 and ZDS2, genes whose products may regulate Cdc42p in Saccharomyces cerevisiae. Bi E, et al. **Mol Cell Biol** 1996 Oct;16(10):5264–75

Extensive alteration of fungal gene transcript accumulation and elevation of G-protein-regulated cAMP levels by a virulence-attenuating hypovirus. Chen B, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7996–8000

Monoclonal antibodies reveal receptor specificity among G-protein-coupled receptor kinases. Oppermann M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7649–54

Regulating expression and function of G-protein-linked receptors. Karoor V, et al. **Prog Neurobiol** 1996 Apr; 48(6):555–68 (155 ref.)

BLOOD

High levels of Gs alpha in platelets of euthymic patients with bipolar affective disorder. Mitchell PB, et al. **Am J Psychiatry** 1997 Feb;154(2):218–23

Subcellular localization of alpha-subunits of trimeric G-proteins in human platelets. Giesberts AN, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):439–44

Specificity of G alpha q and G alpha 11 gene expression in platelets and erythrocytes. Expressions of cellular differentiation and species differences. Johnson GJ, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1023–31

Guanine nucleotide binding proteins in opioid-dependent patients. Manji H, et al. **Biol Psychiatry** 1997 Jan 15; 41(2):130-4

Activation of a NADH dehydrogenase in the human erythrocyte by beta-adrenergic agonists: possible involvement of a G protein in enzyme activation. Marques F, et al. **Biol Signals** 1997 Mar-Apr;6(2):52-61

Differential G protein measures in mononuclear leukocytes of patients with bipolar mood disorder are state dependent. Avissar S, et al. **J Affect Disord** 1997 Apr;43(2):85-93

G-protein level quantification in platelets and leukocytes from patients with panic disorder. Stein MB, et al. **Neuropsychopharmacology** 1996 Aug;15(2):180-6

Platelet imidazoline receptors and regulatory G proteins in patients with major depression. García-Sevilla JA, et al. **Neuroreport** 1996 Dec 20;8(1):169-72

CHEMISTRY

G protein beta gamma subunits. Clapham DE, et al. **Annu Rev Pharmacol Toxicol** 1997;37:167-203 (231 ref.)

Subcellular localization of alpha-subunits of trimeric G-proteins in human platelets. Giesberts AN, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):439-44

N-terminal binding domain of Galpha subunits: involvement of amino acids 11-14 of Galphao in membrane attachment. Busconi L, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):239-44

Distinct biochemical properties of the native members of the G12 G-protein subfamily. Characterization of G alpha 12 purified from rat brain. Harhammer R, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):165-71

Lipid modifications of G-protein-coupled receptor kinases. Inglese J, et al. **Biochem Soc Trans** 1996 Aug;24(3):714-7 (33 ref.)

Definition of the switch surface in the solution structure of Cdc42Hs. Feltham JL, et al. **Biochemistry** 1997 Jul 22; 36(29):8755-66

Folding of proteins with WD-repeats: comparison of six members of the WD-repeat superfamily to the G protein beta subunit. Garcia-Higuera I, et al. **Biochemistry** 1996 Nov 5;35(44):13985-94

Simple purification and functional reconstitution of octopus photoreceptor Gq, which couples rhodopsin to phospholipase C. Kikkawa S, et al. **Biochemistry** 1996 Dec 10;35(49):15857-64

Dynamic and equilibrium studies on the interaction of Ran with its effector, RanBP1. Kuhlmann J, et al. **Biochemistry** 1997 Oct 7;36(40):12027-35

Molecular cloning of a novel ADP-ribosylation factor (ARF) expressed in planarians. Saitoh O, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):205-10

Membrane-anchoring domains of Cdc25p, a Saccharomyces cerevisiae ras exchange factor. Garreau H, et al. **Biol Cell** 1996;86(2-3):93-102

Classification of protein families and detection of the determinant residues with an improved self-organizing map. Andrade MA, et al. **Biol Cybern** 1997 Jun; 76(6):441-50

Conformational characterization of a peptide mimetic of the third cytoplasmic loop of the G-protein coupled parathyroid hormone/parathyroid hormone related protein receptor. Pellegrini M, et al. **Biopolymers** 1996;40(6):653-66

The isolation and characterization of a novel G protein-coupled receptor regulated by immunologic challenge. Charlton ME, et al. **Brain Res** 1997 Aug 1; 764(1-2):141-8

Cloning, characterization, and chromosomal localization of rec1.3, a member of the G-protein-coupled receptor family highly expressed in brain. Macrae AD, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):245-54

Does subunit dissociation necessarily accompany the activation of all heterotrimeric G proteins? Rebois RV, et al. **Cell Signal** 1997 Feb;9(2):141-51 (154 ref.)

45-kDa GTP-binding protein from rat olfactory epithelium: purification, characterization and localization. Novoselov VI, et al. **Chem Senses** 1996 Apr;21(2):181-8

Structural aspects of hetérotrimeric G-protein signaling. Bohm A, et al. **Curr Opin Biotechnol** 1997 Aug;8(4):480-7 (52 ref.)

Regulatory GTPases. Hilgenfeld R. **Curr Opin Struct Biol** 1995 Dec;5(6):810-7 (80 ref.)

Isolation and mapping of RAB2L, a human cDNA that encodes a protein homologous to RalGDS. Isomura M, et al. **Cytogenet Cell Genet** 1996;74(4):263-5

Functional characterisation of a 5-HT2 receptor cDNA cloned from Lymnaea stagnalis. Gerhardt CC, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):249-58

Heterotrimeric G-proteins are implicated in the regulation of apoptosis in pancreatic beta-cells. Loweth AC, et al. **Exp Cell Res** 1996 Nov 25;229(1):69-76

The GTP binding motif: variations on a theme. Kjeldgaard M, et al. **FASEB J** 1996 Oct;10(12):1347-68 (81 ref.)

Identification and characterization of a lower plant Ypt/Rab guanosine dissociation inhibitor (GDI). Beyser K, et al. **FEBS Lett** 1996 Nov 4;396(2-3):298-304

From BRCA1 to RAP1: a widespread BRCT module closely associated with DNA repair. Callebaut I, et al. **FEBS Lett** 1997 Jan 2;400(1):25-30

Monoclonal antibodies that distinguish between free and complexed heterotrimeric G protein beta subunits. Rehm A, et al. **FEBS Lett** 1997 Feb 3;402(2-3):277-85

Identifying the G protein, Gz alpha, and its associated proteins in nervous tissue using mass spectrometry and microsequencing techniques. Bartlett SE, et al. **Int J Dev Neurosci** 1997 Jun;15(3):267-74

The 75-kilodalton antigen of Bartonella bacilliformis is a structural homolog of the cell division protein FtsZ. Padmalayam I, et al. **J Bacteriol** 1997 Jul;179(14):4545-52

Structure and intracellular localization of mouse ADP-ribosylation factors type 1 to type 6 (ARF1-ARF6). Hosaka M, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):813-9

Importance of N-terminal regions of G protein alpha subunits for the activation of phospholipase C in Xenopus oocytes. Nakamura K, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):996-1001

Formation of the functional complexes of m2 muscarinic acetylcholine receptors with GTP-binding regulatory proteins in solution. Rinken A. **J Biochem (Tokyo)** 1996 Jul;120(1):193-200

Molecular switch of F0F1-ATP synthase, G-protein, and other ATP-driven enzymes. Noji H, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):451-7 (35 ref.)

Secondary structure and Ca2+-induced conformational change of calexcitin, a learning-associated protein. Ascoli GA, et al. **J Biol Chem** 1997 Oct 3;272(40):24771-9

Reconstitution of receptors and GTP-binding regulatory proteins (G proteins) in Sf9 cells. A direct evaluation of selectivity in receptor.G protein coupling. Barr AJ, et al. **J Biol Chem** 1997 Jan 24;272(4):2223-9

Tandem duplication of rab genes followed by sequence divergence and acquisition of distinct functions in Trypanosoma brucei. Field H, et al. **J Biol Chem** 1997 Apr 18;272(16):10498-505

Rem is a new member of the Rad- and Gem/Kir Ras-related GTP-binding protein family repressed by lipopolysaccharide stimulation. Finlin BS, et al. **J Biol Chem** 1997 Aug 29;272(35):21982-8

Calmodulin binds to and inhibits GTP binding of the ras-like GTPase Kir/Gem. Fischer R, et al. **J Biol Chem** 1996 Oct 11;271(41):25067-70

Identification of common and distinct residues involved in the interaction of alphai2 and alphas with adenylyl cyclase. Grishina G, et al. **J Biol Chem** 1997 Aug 15; 272(33):20619-26

A novel chloroplastic outer membrane-targeting signal that functions at both termini of passenger polypeptides. Li Hm, et al. **J Biol Chem** 1997 Apr 18;272(16):10968-74

The coiled-coil region of the G protein beta subunit. Mutational analysis of Ggamma and effector interactions. Pellegrino S, et al. **J Biol Chem** 1997 Oct 3;272(40):25360-6

Characterization of a GDP dissociation inhibitory region of ADP-ribosylation factor domain protein ARD1. Vitale N, et al. **J Biol Chem** 1997 Oct 3;272(40):25077-82

Identification and characterization of a calmodulin-binding domain in Ral-A, a Ras-related GTP-binding protein purified from human erythrocyte membrane. Wang KL, et al. **J Biol Chem** 1997 Jun 20;272(25):16002-9

Possible involvement of heterotrimeric G proteins in the organization of the Golgi apparatus. Yamaguchi T, et al. **J Biol Chem** 1997 Oct 3;272(40):25260-6

Structural determinants for interaction with three different effectors on the G protein beta subunit. Yan K, et al. **J Biol Chem** 1997 Jan 24;272(4):2056-9

Characterization of a Goalpha mutant that binds xanthine nucleotides. Yu B, et al. **J Biol Chem** 1997 Jul 18; 272(29):18015-9

Oncogenic amino acid substitutions in the inhibitory rap-1A protein cause it to adopt a ras-p21-like conformation as computed using molecular dynamics. Chen JM, et al. **J Biomol Struct Dyn** 1996 Jun;13(6):925-33

Switches, latches, and amplifiers: common themes of G proteins and molecular motors. Vale RD. **J Cell Biol** 1996 Oct;135(2):291-302 (92 ref.)

Association of the gamma12 subunit of G proteins with actin filaments. Ueda H, et al. **J Cell Sci** 1997 Jul;110 (Pt 13):1503-11

Functional role of amino-terminal serine16 and serine27 of G alphaZ in receptor and effector coupling. Ho MK, et al. **J Neurochem** 1997 Jun;68(6):2514-22

Differential localization of the gamma 3 and gamma 12 subunits of G proteins in the mammalian brain. Morishita R, et al. **J Neurochem** 1997 Feb;68(2):820-7

Computer modelling of G protein-coupled receptors: promises and drawbacks. Maigret B. **J Pharm Belg** 1997 Mar-Apr;52(2):102

Molecular dynamics on complexes of ras-p21 and its inhibitor protein, rap-1A, bound to the ras-binding domain of the raf-p74 protein: identification of effector domains in the raf protein. Chen JM, et al. **J Protein Chem** 1997 Aug; 16(6):619-29

Prediction of the three-dimensional structure of the rap-1A protein from its homology to the ras-gene-encoded p21 protein. Chen JM, et al. **J Protein Chem** 1996 Jan;15(1):11-5

Computed three-dimensional structures for the ras-binding domain of the raf-p74 protein complexed with ras-p21 and with its suppressor protein, rap-1A. Chen JM, et al. **J Protein Chem** 1996 Aug;15(6):511-8

Structural basis of receptor/G protein coupling selectivity studied with muscarinic receptors as model systems. Wess J, et al. **Life Sci** 1997;60(13-14):1007-14 (33 ref.)

Rationally designed non-peptides: variously substituted piperazine libraries for the discovery of bradykinin antagonists and other G-protein-coupled receptor ligands. Goodfellow VS, et al. **Mol Divers** 1996 Oct;2(1-2):97-102

Antagonist-stimulated internalization of the G protein-coupled cholecystokinin receptor. Roettger BF, et al. **Mol Pharmacol** 1997 Mar;51(3):357-62

Role of amino- and carboxyl-terminal regions of G(alphaZ) in the recognition of Gi-coupled receptors. Tsu RC, et al. **Mol Pharmacol** 1997 Jul;52(1):38-45

G proteins: out of the cytoskeletal closet. Rodbell M. **Mt Sinai J Med** 1996 Oct-Nov;63(5-6):381-6 (62 ref.)

Structure of the Ras-binding domain of RalGEF and implications for Ras binding and signalling [letter] Geyer M, et al. **Nat Struct Biol** 1997 Sep;4(9):694-9

The crystal structure of human rac1, a member of the rho-family complexed with a GTP analogue. Hirshberg M, et al. **Nat Struct Biol** 1997 Feb;4(2):147-52

Three-dimensional structure of the Ras-interacting domain of RalGDS [letter] Huang L, et al. **Nat Struct Biol** 1997 Aug;4(8):609-15

Crystal structure of RhoA-GDP and its functional implications [letter] Wei Y, et al. **Nat Struct Biol** 1997 Sep; 4(9):699-703

The structure of the GTPase-activating domain from p50rhoGAP. Barrett T, et al. **Nature** 1997 Jan 30; 385(6615):458-61

A human exchange factor for ARF contains Sec7- and pleckstrin-homology domains. Chardin P, et al. **Nature** 1996 Dec 5;384(6608):481-4

C-terminal binding domain of Rho GDP-dissociation inhibitor directs N-terminal inhibitory peptide to GTPases. Gosser YQ, et al. **Nature** 1997 Jun 19;387(6635):814-9

Brain acetylhydrolase that inactivates platelet-activating factor is a G-protein-like trimer. Ho YS, et al. **Nature** 1997 Jan 2;385(6611):89-93

Crystal structure of a small G protein in complex with the GTPase-activating protein rhoGAP. Rittinger K, et al. **Nature** 1997 Aug 14;388(6643):693-7

Agonist and inverse agonist efficacy at human recombinant serotonin 5-HT1A receptors as a function of receptor:G-protein stoichiometry. Newman-Tancredi A, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):451-9

G protein subunit levels in fibroblasts from familial Alzheimer's disease patients: lower levels of high molecular weight Gs alpha isoform in patients with decreased beta-adrenergic receptor stimulated cAMP formation. Shanahan C, et al. **Neurosci Lett** 1997 Aug 22;232(1):33-6

A giant protein that stimulates guanine nucleotide exchange on ARF1 and Rab proteins forms a cytosolic ternary complex with clathrin and Hsp70. Rosa JL, et al. **Oncogene** 1997 Jul 3;15(1):1-6

Immunoexpression of the alpha subunit of a guanine nucleotide-binding protein (Go) in pulmonary neuroendocrine cells and neoplasms. Kawano N, et al. **Pathol Int** 1996 Jun;46(6):393-8

Characterization of the putative alpha subunit of a heterotrimeric G protein in rice. Iwasaki Y, et al. **Plant Mol Biol** 1997 Jul;34(4):563-72

A surface on the G protein beta-subunit involved in interactions with adenylyl cyclases. Chen Y, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2711-4

Evolutionarily conserved Galphabetagamma binding surfaces support a model of the G protein-receptor complex. Lichtarge O, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7507-11

Isolation of a brefeldin A-inhibited guanine nucleotide-exchange protein for ADP ribosylation factor (ARF) 1 and ARF3 that contains a Sec7-like domain. Morinaga N, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12856-60

Modeling the G-protein-coupled neuropeptide Y Y1 receptor agonist and antagonist binding sites. Du P, et al. **Protein Eng** 1997 Feb;10(2):109-17

Rab7: crystallization of intact and C-terminal truncated constructs complexed with GDP and GppNHp. Brachvogel V, et al. **Proteins** 1997 Feb;27(2):210-2

Rab7: NMR and kinetics analysis of intact and C-terminal truncated constructs. Neu M, et al. **Proteins** 1997 Feb; 27(2):204-9

Automated modelling of the transmembrane region of G-protein coupled receptor by Swiss-model. Peitsch MC, et al. **Receptors Channels** 1996;4(3):161-4 (12 ref.)

Still life, a protein in synaptic terminals of Drosophila homologous to GDP-GTP exchangers. Sone M. **Science** 1997 Mar 7;275(5305):1405

A modulator of rho family G proteins, rhoGDI, binds these G proteins via an immunoglobulin-like domain and a flexible N-terminal arm. Keep NH, et al. **Structure** 1997 May 15;5(5):623-33

Deciphering the alphabet of G proteins: the structure of the alpha, beta, gamma heterotrimer. Wittinghofer A. **Structure** 1996 Apr 15;4(4):357-61 (38 ref.)

How G proteins work: a continuing story. Coleman DE, et al. **Trends Biochem Sci** 1996 Feb;21(2):41-4 (28 ref.)

A shared domain between a spindle assembly checkpoint protein and Ypt/Rab-specific GTPase-activators. Neuwald AF. **Trends Biochem Sci** 1997 Jul;22(7):243-4

Pleckstrin's repeat performance: a novel domain in G-protein signaling? Ponting CP, et al. **Trends Biochem Sci** 1996 Jul; 21(7):245-6

Structural insights into the function of the Rab GDI superfamily. Wu SK, et al. **Trends Biochem Sci** 1996 Dec; 21(12):472-6 (45 ref.)

[7TM receptors--from the olfactory system and new hormones against HIV infection] Schwartz TW. **Ugeskr Laeger** 1997 Feb 24;159(9):1239-45 (34 ref.) (Eng.

Abstr.) **(Dan)**

DEFICIENCY

Olfactory dysfunction in type I pseudohypoparathyroidism: dissociation from Gs alpha protein deficiency. Doty RL, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):247–50

Defective platelet activation in G alpha(q)-deficient mice. Offermanns S, et al. **Nature** 1997 Sep 11;389(6647):183–6

DRUG EFFECTS

Sodium fluoride inhibits the antisecretory effect of peptide YY and its analog in rabbit jejunum. Eto B, et al. **Arch Physiol Biochem** 1996;104(2):180–4

Heterotrimeric G protein activation rapidly inhibits outgrowth of optic axons from adult and embryonic mouse, and goldfish retinal explants. Bates CA, et al. **Brain Res** 1996 Apr 1;714(1–2):65–75

Fluctuation analysis of nonselective cation currents induced by AIF complex in guinea-pig chromaffin cells. Inoue M, et al. **Brain Res** 1996 Nov 11;739(1–2):350–5

M-current suppression in PC12 cells by bradykinin is mediated by a pertussis toxin-insensitive G-protein and modulated by intracellular calcium. Villarroel A. **Brain Res** 1996 Nov 18;740(1–2):227–33

Angiotensin II inhibits protein kinase A-dependent chloride conductance in heart via pertussis toxin-sensitive G proteins. Obayashi K, et al. **Circulation** 1997 Jan 7; 95(1):197–204

Melatonin receptors are present in adult rat Leydig cells and are coupled through a pertussis toxin-sensitive G-protein. Valenti S, et al. **Eur J Endocrinol** 1997 Jun;136(6):633–9

Cytoskeletal inhibitors impair Ca2+ elevations via neuropeptide Y and other Gi-coupled receptors. Michel MC, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):87–94

Developmental differences in the expression of the cholera toxin sensitive subunit (Gs alpha) of adenylate cyclase in the rat small intestine. Sanderson IR, et al. **Gut** 1996 Jun; 38(6):853–8

Morphine and muscle relaxants are receptor-independent G-protein activators and cromolyn is an inhibitor of stimulated G-protein activity. Klinker JF, et al. **Inflamm Res** 1997 Feb;46(2):46–50

G proteins as biological targets for anti-allergic drugs? Rihoux JP, et al. **Int Arch Allergy Immunol** 1997 May-Jul; 113(1–3):339–41

Lack of effect of antidepressants on mononuclear leukocyte G-protein levels or function in depressed outpatients. Young LT, et al. **J Affect Disord** 1996 Jul 29;39(3):201–7

Escherichia coli cytotoxic necrotizing factor 1 (CNF1), a toxin that activates the Rho GTPase. Fiorentini C, et al. **J Biol Chem** 1997 Aug 1;272(31):19532–7

Regulation of signal transduction pathways by mood-stabilizing agents: implications for the delayed onset of therapeutic efficacy. Manji HK, et al. **J Clin Psychiatry** 1996;57 Suppl 13:34–46; discussion 47–8 (109 ref.)

G protein-mediated signal transduction as a target of antidepressant and antibipolar drug action: evidence from model systems. Rasenick MM, et al. **J Clin Psychiatry** 1996; 57 Suppl 13:49–55; discussion 56–8 (38 ref.)

Defective Rho GTPase regulation by IL-1 beta-converting enzyme-mediated cleavage of D4 GDP dissociation inhibitor. Danley DE, et al. **J Immunol** 1996 Jul 15; 157(2):500–3

Mouse bone marrow-derived mast cells undergo exocytosis, prostanoid generation, and cytokine expression in response to G protein-activating polybasic compounds after coculture with fibroblasts in the presence of c-kit ligand. Ogasawara T, et al. **J Immunol** 1997 Jan 1;158(1):393–404

Acute and chronic ethanol consumption effects on the immunolabeling of Gq/11 alpha subunit protein and phospholipase C isozymes in the rat brain. Pandey SC. **J Neurochem** 1996 Dec;67(6):2355–61

Three distinct G protein pathways mediate inhibition of neuronal calcium current by bradykinin. Wilk-Blaszczak MA, et al. **J Neurophysiol** 1996 Nov;76(5):3559–62

Concurrent stimulation of cannabinoid CB1 and dopamine D2 receptors augments cAMP accumulation in striatal neurons: evidence for a Gs linkage to the CB1 receptor. Glass M, et al. **J Neurosci** 1997 Jul 15;17(14):5327–33

Coupling of metabotropic glutamate receptors 2 and 4 to G alpha 15, G alpha 16, and chimeric G alpha q/i proteins: characterization of new antagonists. Gomeza J, et al. **Mol Pharmacol** 1996 Oct;50(4):923–30

A new linear V1A vasopressin antagonist and its use in characterizing receptor/G protein interactions. Strakova Z, et al. **Mol Pharmacol** 1997 Feb;51(2):217–24

Modulation of immunoreactive protein kinase C-alpha and beta isoforms and G proteins by acute and chronic treatments with morphine and other opiate drugs in rat brain. Ventayol P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):491–500

Effects of valproic acid on beta-adrenergic receptors, G-proteins, and adenylyl cyclase in rat C6 glioma cells. Chen G, et al. **Neuropsychopharmacology** 1996 Sep; 15(3):271–80

Increased Gi alpha and Go alpha mRNAs in hippocampus after repeated methamphetamine administration. Ujike H, et al. **Neuroreport** 1996 Aug 12;7(12):2036–40

Effects of chronic nicotine treatment on the expression of phospholipase C isozymes and the alpha subunit of Gq/11 protein in the rat brain. Pandey SC. **Neurosci Lett** 1996 Jul 12;212(2):127–30

Clostridium difficile toxins attack Rho. Wilkins TD, et al. **Trends Microbiol** 1996 Feb;4(2):49–51 (17 ref.)

[Protein G receptors and psychotropic medications] Epelbaum J. **Encephale** 1996 Dec;22 Spec No 7:39–42 **(Fre)**

GENETICS

Linkage disequilibrium analysis of G-olf alpha (GNAL) in bipolar affective disorder. Tsiouris SJ, et al. **Am J Med Genet** 1996 Sep 20;67(5):491–4

Increased proliferation of osteoblastic cells expressing the activating Gs alpha mutation in monostotic and polyostotic fibrous dysplasia. Marie PJ, et al. **Am J Pathol** 1997 Mar; 150(3):1059–69

Alteration of G protein subclass mRNAs in methamphetamine-induced behavioral sensitization. Iwasa H, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:110–5

Activating mutations of rhodopsin and other G protein-coupled receptors. Rao VR, et al. **Annu Rev Biophys Biomol Struct** 1996;25:287–314 (120 ref.)

New tetracycline resistance determinants coding for ribosomal protection in streptococci and nucleotide sequence of tet(T) isolated from Streptococcus pyogenes A498. Clermont D, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):112–6

Discovery of a novel human G protein-coupled receptor gene (GPR25) located on chromosome 1. Jung BP, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):69–72

Differential expression of Rab3 isoforms during differentiation of pancreatic acinar cell line AR42J. Klengel R, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):719–22

Cloning of the RhoB gene from the mouse genome and characterization of its promoter region. Nakamura T, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):688–94

Identification of human and mouse GP-1, a putative member of a novel G-protein family. Senju S, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):360–4

Cloning and tissue expression of the rat RAB 3C GTP-binding protein. Viggeswarapu M, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):645–50

Molecular cloning and expression analysis of the human Rab7 GTP-ase complementary deoxyribonucleic acid. Vitelli R, et al. **Biochem Biophys Res Commun** 1996 Dec 24; 229(3):887–90

Expression of the murine RanBP1 and Htf9-c genes is regulated from a shared bidirectional promoter during cell cycle progression. Guarguaglini G, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):277–86

Specificity of G alpha q and G alpha 11 gene expression in platelets and erythrocytes. Expressions of cellular differentiation and species differences. Johnson GJ, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1023–31

Prenylation of a Rab1B mutant with altered GTPase activity is impaired in cell-free systems but not in intact mammalian cells. Wilson AL, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1007–14

Isolation and sequence determination of cDNA encoding mouse rab 4 and candidate approach for the beige mutation in mice. Ikeda H, et al. **Biochem Mol Biol Int** 1996 Nov; 40(4):647–51

Molecular cloning and characterization of rab27a and rab27b, novel human rab proteins shared by melanocytes and platelets. Chen D, et al. **Biochem Mol Med** 1997 Feb; 60(1):27–37

Steady-state mRNA levels of G protein subunits in developing rabbit myocardium. Fattal O, et al. **Biochem Mol Med** 1995 Dec;56(2):108–14

Concurrent hormone resistance (pseudohypoparathyroidism type Ia) and hormone independence (testotoxicosis) caused by a unique mutation in the G alpha s gene. Nakamoto JM, et al. **Biochem Mol Med** 1996 Jun;58(1):18–24

RAB GTPases expressed in human melanoma cells. Chen D, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):1–6

Cloning of two splicing variants of the novel Ras-related GTPase Rab29 which is predominantly expressed in kidney. Massmann S, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):48–55

Corrigendum to "Molecular cloning of a novel ADP-ribosylation factor (ARF) expressed in planarians" [Biochim. Biophys. Acta 1309 (1996) 205–210] Saitoh O, et al. **Biochim Biophys Acta** 1997 May 30;1352(2):231

A rab11-like gene is developmentally regulated in ripening mango (Mangifera indica L.) fruit. Zainal Z, et al. **Biochim Biophys Acta** 1996 Dec 12;1314(3):187–90

Structure and regulation of the Salmonella typhimurium rnc-era-recO operon. Anderson PE, et al. **Biochimie** 1996; 78(11–12):1025–34

Polymerase chain reaction-based technique for the selective enrichment and analysis of mosaic arg201 mutations in G alpha s from patients with fibrous dysplasia of bone. Candeliere GA, et al. **Bone** 1997 Aug;21(2):201–6

Genetic alterations in N-bis(2-hydroxypropyl)nitrosamine-induced rat transplantable thyroid carcinoma lines: analysis of the TSH-R, G(alpha)s, ras and p53 genes. Kitahori Y, et al. **Carcinogenesis** 1997 Feb;18(2):265–9

A putative chemokine receptor, BLR1, directs B cell migration to defined lymphoid organs and specific anatomic compartments of the spleen. Förster R, et al. **Cell** 1996 Dec 13;87(6):1037–47

A novel Rab5 GDP/GTP exchange factor complexed to Rabaptin-5 links nucleotide exchange to effector recruitment and function. Horiuchi H, et al. **Cell** 1997 Sep 19;90(6):1149–59

Role of a new Rho family member in cell migration and axon guidance in C. elegans. Zipkin ID, et al. **Cell** 1997 Sep 5;90(5):883–94

Genomic sequence analysis of a key residue (Arg183) in human G alpha q in invasive non-functional pituitary adenomas. Farrell WE, et al. **Clin Endocrinol (Oxf)** 1997 Aug;47(2):241–4

The aimless RasGEF is required for processing of chemotactic signals through G-protein-coupled receptors in Dictyostelium. Insall RH, et al. **Curr Biol** 1996 Jun 1; 6(6):719–29

CDC42 and Rac1 are implicated in the activation of the Nef-associated kinase and replication of HIV-1. Lu X, et al. **Curr Biol** 1996 Dec 1;6(12):1677–84

Isolation and mapping of RAB2L, a human cDNA that encodes a protein homologous to RalGDS. Isomura M, et al. **Cytogenet Cell Genet** 1996;74(4):263–5

Cloning and chromosome assignment to 1q32 of a human cDNA (RAB7L1) encoding a small GTP-binding protein, a member of the RAS superfamily. Shimizu F, et al. **Cytogenet Cell Genet** 1997;77(3–4):261–3

A somatic cell hybrid panel for distal 17q: GDIA1 maps to 17q25.3. Wagner T, et al. **Cytogenet Cell Genet** 1997; 76(3–4):172–5

Isolation and analysis of a novel gene, HXC-26, adjacent to the rab GDP dissociation inhibitor gene located at human chromosome Xq28 region. Toyoda A, et al. **DNA Res** 1996 Oct 31;3(5):337–40

Rab2 nucleotide coding sequence in gallus gallus and it phylogenetic position. Montpellier C, et al. **DNA Seq** 1995; 6(1):37–9

Expression of cDNA clones by coupled in vitro transcription/translation and transfection into COS-1 cells: protein mapping in two-dimensional gels. Madsen P, et al. **Electrophoresis** 1995 Dec;16(12):2258–61

Gem, a GTP-binding protein from mitogen-stimulated T cells, is induced in endothelial cells upon activation by inflammatory cytokines. Vanhove B, et al. **Endothelium** 1997;5(1):51–61

Isolation, expression and characterization of the gene for an ADP-ribosylation factor from the human malaria parasite, Plasmodium falciparum. Stafford WH, et al. **Eur J Biochem** 1996 Nov 15;242(1):104–13

Cloning and expression of a cdc25 homologue from hydra. Laubrock A, et al. **Eur J Cell Biol** 1996 Nov;71(3):319–23

Differential up-regulation of Rap1a and Rap1b proteins during smooth muscle cell cycle. Quarck R, et al. **Eur J Cell Biol** 1996 Jul;70(3):269–77

Characteristics of gsp-positive growth hormone-secreting pituitary tumors in Korean acromegalic patients. Yang I, et al. **Eur J Endocrinol** 1996 Jun;134(6):720–6

Identification and characterization of a lower plant Ypt/Rab guanosine dissociation inhibitor (GDI). Beyser K, et al. **FEBS Lett** 1996 Nov 4;396(2–3):298–304

Characterization of a human gene related to genes encoding somatostatin receptors. Kolakowski LF Jr, et al. **FEBS Lett** 1996 Dec 2;398(2–3):253–8

A novel gene codes for a putative G protein-coupled receptor with an abundant expression in brain. O'Dowd BF, et al. **FEBS Lett** 1996 Oct 7;394(3):325–9

At-GDI1 from Arabidopsis thaliana encodes a rab-specific GDP dissociation inhibitor that complements the sec19 mutation of Saccharomyces cerevisiae. Zárský V, et al. **FEBS Lett** 1997 Feb 24;403(3):303–8

Deletion of the putative effector region of Era, an essential GTP-binding protein in Escherichia coli, causes a dominant-negative phenotype. Pillutla RC, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):47–55

Mutational analysis of Era, an essential GTP-binding protein of Escherichia coli. Shimamoto T, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):57–62

The turkey c-rap1A proto-oncogene is expressed via two distinct promoters. Chajut A, et al. **Gene** 1996 Oct 24; 177(1–2):7–10

Molecular cloning of two novel rab genes from human melanocytes. Chen D, et al. **Gene** 1996 Sep 26; 174(1):129–34

Isolation of the gene coding for Caenorhabditis elegans Rac2 homologue, a Ras-related small GTP-binding protein. Chen W, et al. **Gene** 1996 Nov 21;180(1–2):217–9

Characterization of a Phytophthora infestans gene involved in vesicle transport. Chen Y, et al. **Gene** 1996 Nov 28; 181(1–2):89–94

A promoter ISRE and dual 5' YY1 motifs control IFN-gamma induction of the IRG-47 G-protein gene. Gilly M, et al. **Gene** 1996 Nov 14;179(2):237–44

Molecular cloning of a new member of the putative G protein-coupled receptor gene from barnacle Balanus amphitrite. Isoai A, et al. **Gene** 1996 Oct 10;175(1–2):95–100

Heterogeneity of Entamoeba histolytica rac genes encoding p21rac homologues. Lohia A, et al. **Gene** 1996 Sep 16; 173(2):205–8

Cloning and characterization of a cDNA encoding Xenopus laevis alpha o1 isoform of the Go protein. Paquereau L, et al. **Gene** 1997 Mar 25;188(1):137–41

cDNA for the beta 1 subunit of guanyl nucleotide-binding regulatory proteins from mouse adrenal glands. Qiu R, et al. **Gene** 1996 Oct 10;175(1-2):275-7

Cloning and characterization of the S. pombe gene efc25+, a new putative guanine nucleotide exchange factor. Tratner I, et al. **Gene** 1997 Jul 9;193(2):203-10

NBP35 encodes an essential and evolutionary conserved protein in Saccharomyces cerevisiae with homology to a superfamily of bacterial ATPases. Vitale G, et al. **Gene** 1996 Oct 31;178(1-2):97-106

A Drosophila gene with predicted rhoGEF, pleckstrin homology and SH3 domains is highly expressed in morphogenic tissues. Werner LA, et al. **Gene** 1997 Mar 10;187(1):107-14

A Francisella tularensis DNA clone complements Escherichia coli defective for the production of Era, an essential Ras-like GTP-binding protein. Zuber M, et al. **Gene** 1997 Apr 11;189(1):31-4

An activating mutation in a Caenorhabditis elegans Gs protein induces neural degeneration. Korswagen HC, et al. **Genes Dev** 1997 Jun 15;11(12):1493-503

The ROOT HAIR DEFECTIVE3 gene encodes an evolutionarily conserved protein with GTP-binding motifs and is required for regulated cell enlargement in Arabidopsis. Wang H, et al. **Genes Dev** 1997 Mar 15; 11(6):799-811

Isolation of mutations in the Drosophila homologues of the human Neurofibromatosis 2 and yeast CDC42 genes using a simple and efficient reverse-genetic method. Fehon RG, et al. **Genetics** 1997 May;146(1):245-52

G protein alpha subunit multigene family in the Japanese puffer fish Fugu rubripes: PCR from a compact vertebrate genome [letter] Sarwal MM, et al. **Genome Res** 1996 Dec; 6(12):1207-15

Cloning and mapping of human Rab7 and Rab9 cDNA sequences and identification of a Rab9 pseudogene. Davies JP, et al. **Genomics** 1997 Apr 1;41(1):131-4

Gene structure of murine Gna11 and Gna15: tandemly duplicated Gq class G protein alpha subunit genes. Davignon I, et al. **Genomics** 1996 Feb 1;31(3):359-66

Assignment of human ADP ribosylation factor (ARF) genes ARF1 and ARF3 to chromosomes 1q42 and 12q13, respectively. Hirai M, et al. **Genomics** 1996 Jun 1; 34(2):263-5

Localization and characterization of the human ADP-ribosylation factor 5 (ARF5) gene. McGuire RE, et al. **Genomics** 1997 May 1;41(3):481-4

Genomic organization and chromosomal location of murine Cdc42. Marks PW, et al. **Genomics** 1996 Nov 15;38(1):13-8

Isolation of cDNA and genomic clones of a human Ras-related GTP-binding protein gene and its chromosomal localization to the long arm of chromosome 7, 7q36. Mizuki N, et al. **Genomics** 1996 May 15;34(1):114-8

Chromosomal organization and transcriptional regulation of human GEM and localization of the human and mouse GEM loci encoding an inducible Ras-like protein. Santoro T, et al. **Genomics** 1995 Dec 10;30(3):558-64

The molecular basis of disorders caused by defects in G proteins. Spiegel AM. **Horm Res** 1997;47(3):89-96 (28 ref.)

Restoration of lipopolysaccharide-mediated B-cell response after expression of a cDNA encoding a GTP-binding protein. Kang AD, et al. **Infect Immun** 1996 Nov; 64(11):4612-7

G-protein expression in melanotropes changes coincident with innervation of the developing rat pituitary intermediate lobe. Sands SA, et al. **Int J Dev Neurosci** 1997 Jun;15(3):329-41

Characterization of mutations affecting the Escherichia coli essential GTPase era that suppress two temperature-sensitive dnaG alleles. Britton RA, et al. **J Bacteriol** 1997 Jul;179(14):4575-82

Identification of a new inhibitor of essential division gene ftsZ as the kil gene of defective prophage Rac. Conter A, et al. **J Bacteriol** 1996 Sep;178(17):5100-4

Two polypeptide products of the Escherichia coli cell division gene ftsW and a possible role for FtsW in FtsZ function. Khattar MM, et al. **J Bacteriol** 1997 Feb; 179(3):784-93

Molecular cloning and characterization of the obg gene of Streptomyces griseus in relation to the onset of morphological differentiation. Okamoto S, et al. **J Bacteriol** 1997 Jan;179(1):170-9

Significance of Thr182 in the nucleotide-exchange and GTP-hydrolysis reactions of the alpha subunit of GTP-binding protein Gi2. Nishina H, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1083-9

Characterization of yeast sar1 temperature-sensitive mutants, which are defective in protein transport from the endoplasmic reticulum. Yamanushi T, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):452-8

Tandem duplication of rab genes followed by sequence divergence and acquisition of distinct functions in Trypanosoma brucei. Field H, et al. **J Biol Chem** 1997 Apr 18;272(16):10498-505

Induction of Galphaq-specific antisense RNA in vivo causes increased body mass and hyperadiposity. Galvin-Parton PA, et al. **J Biol Chem** 1997 Feb 14;272(7):4335-41

Random mutagenesis of the cAMP chemoattractant receptor, cAR1, of Dictyostelium. Mutant classes that cause discrete shifts in agonist affinity and lock the receptor in a novel activational intermediate. Kim JY, et al. **J Biol Chem** 1997 Jan 24;272(4):2060-8

Residues of the Rho family GTPases Rho and Cdc42 that specify sensitivity to Dbl-like guanine nucleotide exchange factors. Li R, et al. **J Biol Chem** 1997 Feb 21;272(8):4671-9

Cloning and characterization of a rhoGAP homolog from Dictyostelium discoideum. Ludbrook SB, et al. **J Biol Chem** 1997 Jun 20;272(25):15682-6

Random mutagenesis of the cAMP chemoattractant receptor, cAR1, of Dictyostelium. Evidence for multiple states of activation. Milne JL, et al. **J Biol Chem** 1997 Jan 24; 272(4):2069-76

Dependence of activated Galpha12-induced G1 to S phase cell cycle progression on both Ras/mitogen-activated protein kinase and Ras/Rac1/Jun N-terminal kinase cascades in NIH3T3 fibroblasts. Mitsui H, et al. **J Biol Chem** 1997 Feb 21;272(8):4904-10

Genetic evidence for a tyrosine kinase cascade preceding the mitogen-activated protein kinase cascade in vertebrate G protein signaling. Wan Y, et al. **J Biol Chem** 1997 Jul 4;272(27):17209-15

Identification of Rad's effector-binding domain, intracellular localization, and analysis of expression in Pima Indians. Paulik MA, et al. **J Cell Biochem** 1997 Jun 15;65(4):527-41

A novel class of RanGTP binding proteins. Görlich D, et al. **J Cell Biol** 1997 Jul 14;138(1):65-80

Involvement of Rabphilin-3A in cortical granule exocytosis in mouse eggs. Masumoto N, et al. **J Cell Biol** 1996 Dec; 135(6 Pt 2):1741-7

Rab11 regulates recycling through the pericentriolar recycling endosome. Ullrich O, et al. **J Cell Biol** 1996 Nov; 135(4):913-24

Sec2p mediates nucleotide exchange on Sec4p and is involved in polarized delivery of post-Golgi vesicles. Walch-Solimena C, et al. **J Cell Biol** 1997 Jun 30; 137(7):1495-509

Identification of a novel member of the Rab8 family from the rat basophilic leukaemia cell line, RBL.2H3. Armstrong J, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1265-74

Molecular characterisation of ninein, a new coiled-coil protein of the centrosome. Bouckson-Castaing V, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):179-90

Cytokinesis arrest and redistribution of actin-cytoskeleton regulatory components in cells expressing the Rho GTPase CDC42Hs. Dutartre H, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):367-77

Expression, localization and functional role of small GTPases of the Rab3 family in insulin-secreting cells. Regazzi R, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2265-73

Isolation and characterization of SYS genes from yeast, multicopy suppressors of the functional loss of the transport GTPase Ypt6p. Tsukada M, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2471-81

TSH receptor and Gs-alpha gene mutations in the pathogenesis of toxic thyroid adenomas--a note of caution [editorial] Derwahl M. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2783-5 (27 ref.)

G protein and thyrotropin receptor mutations in thyroid neoplasia. Esapa C, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):493-6

Human myometrial G alpha s-small (with serine) and Gs-large (with serine) messenger ribonucleic acid splice variants promote the increased expression of 46- and 54-kilodalton G alpha s protein isoforms in pregnancy and their down-regulation during labor. Europe-Finner GN, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1069-75

Gs alpha mutation may be uncommon in patients with multiple endocrine neoplasia type 1. Sakurai A, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2394-6

Absence of the previously reported G protein oncogene (gip2) in ovarian granulosa cell tumors. Shen Y, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4159-61

Expression of the Gs protein alpha-subunit disrupts the normal program of differentiation in cultured murine myogenic cells. Tsai CC, et al. **J Clin Invest** 1997 Jan 1; 99(1):67-76

Inborn errors of signal transduction: mutations in G proteins and G protein-coupled receptors as a cause of disease. Spiegel AM. **J Inherit Metab Dis** 1997 Jun;20(2):113-21 (20 ref.)

Molecular cloning of a Rho family, CDC42Ca gene from Candida albicans and its mRNA expression changes during morphogenesis. Mirbod F, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):173-9

Genetic interactions among the transmembrane segments of the G protein coupled receptor encoded by the yeast STE2 gene. Sommers CM, et al. **J Mol Biol** 1997 Feb 28; 266(3):559-75

Localisation of cardiac GS alpha in transgenic mice overexpressing GS alpha. Muntz KH, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1649-53

Expression of human myometrial G alpha s messenger ribonucleic acid transcript during pregnancy and labour: involvement of alternative splicing pathways. Europe-Finner GN, et al. **J Mol Endocrinol** 1997 Feb; 18(1):15-25

Identification of G alpha s messenger ribonucleic acid splice variants in human granulosa cells. Europe-Finner GN, et al. **J Mol Endocrinol** 1997 Feb;18(1):27-35

Molecular cloning of heterotrimeric G-protein alpha-subunits in chicken pineal gland. Okano T, et al. **J Mol Evol** 1997;44 Suppl 1:S91-7

Molecular cloning of a lobster G alpha(q) protein expressed in neurons of olfactory organ and brain. McClintock TS, et al. **J Neurochem** 1997 Jun;68(6):2248-54

rGbeta1: a psychostimulant-regulated gene essential for establishing cocaine sensitization. Wang XB, et al. **J Neurosci** 1997 Aug 1;17(15):5993-6000

A molecular perspective of the genetic relationships of G-protein coupled melatonin receptor subtypes. Shiu SY, et al. **J Pineal Res** 1996 May;20(4):198-204

Mutation analysis of gonadotropin receptor and G protein genes in various types of human ovarian tumors. Ichikawa Y, et al. **Jpn J Clin Oncol** 1996 Oct;26(5):298-302

Genetically fixed enhanced G protein activation in essential hypertension. Siffert W. **Kidney Blood Press Res** 1996; 19(3-4):172-3 (16 ref.)

Genetic mapping of the Rab5a and Rab5b genes on mouse Chromosomes 17 and 2, respectively. Barbosa MD, et al. **Mamm Genome** 1996 Feb;7(2):166-7

Genetic mapping of Rab20 on mouse chromosome 8. McMurtrie EB, et al. **Mamm Genome** 1997 Apr;8(4):291-2

GS protein mutations and pituitary tumors: functional correlates and possible therapeutic implications. Faglia G, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):117-9 (18 ref.)

Gs protein mutations and the pathogenesis and function of pituitary tumors. Harris PE. **Metabolism** 1996 Aug;45(8 Suppl 1):120-2 (23 ref.)

A Plasmodium falciparum homologue of a rab specific GDP dissociation inhibitor. Attal G, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):91-5

Identification and characterization of an ADP-ribosylation factor in Plasmodium falciparum. Lee FJ, et al. **Mol Biochem Parasitol** 1997 Aug;87(2):217-23

Cloning and characterization of Plasmodium falciparum ADP-ribosylation factor and factor-like genes. Truong RM, et al. **Mol Biochem Parasitol** 1997 Feb;84(2):247-53

The G alpha i homologue gna-1 controls multiple differentiation pathways in Neurospora crassa. Ivey FD, et al. **Mol Biol Cell** 1996 Aug;7(8):1283-97

Expression of human Krev-1 gene in lungs of transgenic mice and subsequent reduction in multiplicity of ethyl carbamate-induced lung adenomas. Damak S, et al. **Mol Carcinog** 1996 Oct;17(2):84-91

Interspecies relationships among ADP-ribosylation factors (ARFs): evidence of evolutionary pressure to maintain individual identities. Price SR, et al. **Mol Cell Biochem** 1996 Jun 7;159(1):15-23

Two human cDNAs, including a homolog of Arabidopsis FUS6 (COP11), suppress G-protein- and mitogen-activated protein kinase-mediated signal transduction in yeast and mammalian cells. Spain BH, et al. **Mol Cell Biol** 1996 Dec;16(12):6698-706

rac1 regulates a cytokine-stimulated, redox-dependent pathway necessary for NF-kappaB activation. Sulciner DJ, et al. **Mol Cell Biol** 1996 Dec;16(12):7115-21

GH3 cells expressing constitutively active Gs alpha (Q227L) show enhanced hormone secretion and proliferation. Ham J, et al. **Mol Cell Endocrinol** 1997 Mar 14;127(1):41-7

Molecular characterization of a rab-related small GTP binding protein cDNA from rice (Oryza sativa L. IR-36). Kim HY, et al. **Mol Cells** 1997 Apr 30;7(2):226-30

Mutations of neighboring polar residues on the second transmembrane helix disrupt signaling by the parathyroid hormone receptor. Turner PR, et al. **Mol Endocrinol** 1996 Feb;10(2):132-9

Isolation and characterization of the krev-1 gene, a novel member of ras superfamily in Neurospora crassa: involvement in sexual cycle progression. Ito S, et al. **Mol Gen Genet** 1997 Jul;255(4):429-37

The G protein beta subunit Gpb1 of Schizosaccharomyces pombe is a negative regulator of sexual development. Kim DU, et al. **Mol Gen Genet** 1996 Aug 27;252(1-2):20-32

Genetic interactions indicate a role for Mdg1p and the SH3 domain protein Bem1p in linking the G-protein mediated yeast pheromone signalling pathway to regulators of cell polarity. Leberer E, et al. **Mol Gen Genet** 1996 Oct 16; 252(5):608-21

Molecular cloning and characterization of Drosophila genes encoding small GTPases of the rab and rho families. Sasamura T, et al. **Mol Gen Genet** 1997 May 20; 254(5):486-94

Expression and regulation of the rnc and pdxJ operons of Escherichia coli. Matsunaga J, et al. **Mol Microbiol** 1996 Dec;22(5):977-89

The HypB protein from Bradyrhizobium japonicum can store nickel and is required for the nickel-dependent transcriptional regulation of hydrogenase. Olson JW, et al. **Mol Microbiol** 1997 Apr;24(1):119-28

Carboxyl-terminal mutations of Gq alpha and Gs alpha that alter the fidelity of receptor activation. Conklin BR, et al. **Mol Pharmacol** 1996 Oct;50(4):885-90

G protein gene expression during mouse oocyte growth and maturation, and preimplantation embryo development. Williams CJ, et al. **Mol Reprod Dev** 1996 Jul;44(3):315-23

Relevance of molecular medicine to clinical obstetrics and gynecology. Cohen DP, et al. **Obstet Gynecol Surv** 1997 Jan;52(1):73-80 (29 ref.)

rsc: a novel oncogene with structural and functional homology with the gene family of exchange factors for Ral. D'Adamo DR, et al. **Oncogene** 1997 Mar 20; 14(11):1295-305

Enhanced apoptosis in the thymus of transgenic mice expressing constitutively activated forms of human Rac2GTPase. Lorès P, et al. **Oncogene** 1997 Jul 31; 15(5):601-5

Cooperative transformation of NIH3T3 cells by G alpha12 and Rac1. Tolkacheva T, et al. **Oncogene** 1997 Aug 7; 15(6):727–35

Expression of G proteins in human placentae from molar pregnancies. Petit A, et al. **Placenta** 1996 Jul–Aug; 17(5–6):337–43

An Arabidopsis gene isolated by a novel method for detecting genetic interaction in yeast encodes the GDP dissociation inhibitor of Ara4 GTPase. Ueda T, et al. **Plant Cell** 1996 Nov;8(11):2079–91

Identification of new protein species among 33 different small GTP-binding proteins encoded by cDNAs from Lotus japonicus, and expression of corresponding mRNAs in developing root nodules. Borg S, et al. **Plant J** 1997 Feb; 11(2):237–50

Identification and isoprenylation of plant GTP-binding proteins. Biermann B, et al. **Plant Mol Biol** 1996 Aug; 31(5):1021–8

Isolation and analysis of the soybean SGA2 gene (cDNA), encoding a new member of the plant G-protein family of signal transducers. Gotor C, et al. **Plant Mol Biol** 1996 Dec;32(6):1227–34

Cloning and characterization of a cDNA encoding a Rab1-like small GTP-binding protein from Petunia hybrida. Jako C, et al. **Plant Mol Biol** 1996 Jul;31(4):923–6

Isolation of an additional soybean cDNA encoding Ypt/Rab-related small GTP-binding protein and its functional comparison to Sypt using a yeast ypt1–1 mutant. Kim WY, et al. **Plant Mol Biol** 1996 Jul;31(4):783–92

The presence of a Sar1 gene family in Brassica campestris that suppresses a yeast vesicular transport mutation Sec12–1. Kim WY, et al. **Plant Mol Biol** 1997 Apr; 33(6):1025–35

Tomato Rab1A homologs as molecular tools for studying Rab geranylgeranyl transferase in plant cells. Loraine AE, et al. **Plant Physiol** 1996 Apr;110(4):1337–47

Transgenic Galphaq overexpression induces cardiac contractile failure in mice. D'Angelo DD, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8121–6

Complementation of sporulation and motility defects in a prokaryote by a eukaryotic GTPase. Hartzell PL. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9881–6

Candida albicans strains heterozygous and homozygous for mutations in mitogen-activated protein kinase signaling components have defects in hyphal development. Köhler JR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13223–8

Signal transduction through homologs of the Ste20p and Ste7p protein kinases can trigger hyphal formation in the pathogenic fungus Candida albicans. Leberer E, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13217–22

Low incidence of the stimulatory G protein alpha-subunit mutations in autonomously functioning thyroid adenomas in Japan. Tanaka K, et al. **Thyroid** 1996 Jun;6(3):195–9

G16 as a universal G protein adapter: implications for agonist screening strategies. Milligan G, et al. **Trends Pharmacol Sci** 1996 Jul;17(7):235–7 (26 ref.)

Gip-2 codon 179 oncogene mutations: absent in adrenal cortical tumors. Demeure MJ, et al. **World J Surg** 1996 Sep;20(7):928–31; discussion 931–2

Sequence analysis of a 14.2 kb fragment of Saccharomyces cerevisiae chromosome XIV that includes the ypt53, tRNALeu and gsr m2 genes and four new open reading frames. Garcia-Cantalejo JM, et al. **Yeast** 1996 May; 12(6):599–608

Characterization of the Saccharomyces cerevisiae cdc42–1ts allele and new temperature-conditional-lethal cdc42 alleles. Miller PJ, et al. **Yeast** 1997 May;13(6):561–72

Isolation of a gene encoding a G protein alpha subunit involved in the regulation of cAMP levels in the yeast Kluyveromyces lactis. Saviñón-Tejeda AL, et al. **Yeast** 1996 Sep 15;12(11):1125–33

[Cloning and expression of cDNA for tobacco rab1, and structural-functional analysis of the protein] Andreeva AV, et al. **Bioorg Khim** 1997 Mar;23(3):183–90 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Generation of antibodies specific for the RalA and RalB GTP-binding proteins and determination of their concentration and distribution in human platelets. Jilkina O, et al. **Biochim Biophys Acta** 1996 Nov 8; 1314(1–2):157–66

Tobacco cells contain a protein, immunologically related to the neutrophil small G protein Rac2 and involved in elicitor-induced oxidative burst. Kieffer F, et al. **FEBS Lett** 1997 Feb 17;403(2):149–53

Involvement of the ras-like GTPase rab3d in RBL-2H3 mast cell exocytosis following stimulation via high affinity IgE receptors (Fc epsilonRI). Roa M, et al. **J Immunol** 1997 Sep 15;159(6):2815–23

ISOLATION & PURIFICATION

45-kDa GTP-binding protein from rat olfactory epithelium: purification, characterization and localization. Novoselov VI, et al. **Chem Senses** 1996 Apr;21(2):181–8

Characterization and purification from bovine neutrophils of a soluble guanine-nucleotide-binding protein that mediates isozyme-specific stimulation of phospholipase C beta2. Illenberger D, et al. **Eur J Biochem** 1997 May 15; 246(1):71–7

Characterization of RAC3, a novel member of the Rho family. Haataja L, et al. **J Biol Chem** 1997 Aug 15; 272(33):20384–8

Isolation and characterization of a GDP/GTP exchange protein specific for the Rab3 subfamily small G proteins. Wada M, et al. **J Biol Chem** 1997 Feb 14;272(7):3875–8

Immunolocalization of rap1 in the rat parotid gland: detection on secretory granule membranes. D'Silva NJ, et al. **J Histochem Cytochem** 1997 Jul;45(7):965–73

Expression of the Arabidopsis G-protein GP alpha1: purification and characterisation of the recombinant protein. Wise A, et al. **Plant Mol Biol** 1997 Mar;33(4):723–8

Interleaflet clear space is reduced in the membrane of COP I and COP II-coated buds/vesicles. Orci L, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8968–70

Expression, purification, and characterization of the G domain of Saccharomyces cerevisiae elongation factor 2. Rao S, et al. **Protein Expr Purif** 1996 Aug;8(1):91–6

METABOLISM

Possible role of BARS-50, a substrate of brefeldin A-dependent mono-ADP-ribosylation, in intracellular transport. Silletta MG, et al. **Adv Exp Med Biol** 1997; 419:321–30

Activation of toxin ADP-ribosyltransferases by the family of ADP-ribosylation factors. Vaughan M, et al. **Adv Exp Med Biol** 1997;419:315–20 (24 ref.)

Membrane anchored synthetic peptides as a tool for structure-function analysis of pertussis toxin and its target proteins. von Olleschik-Elbheim L, et al. **Adv Exp Med Biol** 1997;419:87–91

Characterization of the endogenous mono-ADP-ribosylation stimulated by brefeldin A. Weigert R, et al. **Adv Exp Med Biol** 1997;419:337–42

Effects of ethanol on the function of G proteins in rat cerebral cortex membranes. Hatta S, et al. **Alcohol Alcohol** 1994;29 Suppl 1:45–51

Reduced sensitivity to ethanol of Gs alpha and Gi/o alpha in the cerebral cortex of alcoholic patients. Ozawa H, et al. **Alcohol Alcohol** 1994;29 Suppl 1:93–7

Alterations of receptor-G protein-adenylyl cyclase coupling in alcoholics. Saito T, et al. **Alcohol Alcohol Suppl** 1994; 2:211–5

Alteration of glutamyltranspeptidase binding proteins in postmortem brains of heroin addicts. Hashimoto E, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):301A–304A

Gi protein activation of gonadotropin-releasing hormone-mediated protein dephosphorylation in human endometrial carcinoma. Imai A, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):371–6

Beta-blockade reduces effects of adenosine and carbachol by transregulation of inhibitory receptors and Gi proteins. Borst MM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1672–9

Role of myristoylation in membrane attachment and function of G alpha i-3 on Golgi membranes. Brand SH, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1362–9

Alterations of adenylyl cyclase-linked G proteins in rat liver during aging. Eakes AT, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E126–32

Insulin resistance in adipocytes after downregulation of Gi subtypes. Green A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E254–61

Glucosylation of small GTP-binding Rho proteins disrupts endothelial barrier function. Hippenstiel S, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L38–43

Renal dopamine DA1 receptor coupling with G(S) and G(q/11) proteins in spontaneously hypertensive rats. Hussain T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F339–46

Cardiomyopathy induced by cardiac Gs alpha overexpression. Iwase M, et al. **Am J Physiol** 1997 Jan; 272(1 Pt 2):H585–9

Alterations in dopamine DA1 receptor and G proteins in renal proximal tubules of old rats. Kansra V, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F53–9

IL-1 beta alters beta-adrenergic receptor adenylyl cyclase system function in human airway epithelial cells. Kelsen SG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L694–700

ATP-dependent regulation of a G protein-coupled K+ channel (GIRK1/GIRK4) expressed in oocytes. Kim D, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H195–206

Phospholipase D is activated by G protein and not by calcium ions in vascular smooth muscle. LaBelle EF, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1031–7

Modulation of phospholipase C pathway and level of Gq alpha/G11 alpha in rat myometrium during gestation. Lajat S, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C895–904

Subcellular compartmentalization of Gs alpha in cardiac myocytes and its redistribution in heart failure. Nash JA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2209–17

Desensitization of norepinephrine receptor function is associated with G protein uncoupling in the rat aorta. Seasholtz TM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H279–85

Coupling of oxytocin receptor to G proteins in rat myometrium during labor: Gi receptor interaction. Strakova Z, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E870–6

To what extent can binding studies allow the quantification of affinity and efficacy? Birdsall NJ, et al. **Ann N Y Acad Sci** 1997 May 30;812:41–7 (33 ref.)

Acylation differentiates two forms of agonist binding to rat 5-HT1A receptors. Palmitoylated G protein--agonist states? Dacquet C, et al. **Ann N Y Acad Sci** 1997 May 30;812:178

Metal-ion sites as structural and functional probes of helix-helix interactions in 7TM receptors. Elling CE, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:142–51 (57 ref.)

Comparison of the three mouse G-protein-activated K+ (GIRK) channels and functional couplings of the opioid receptors with the GIRK1 channel. Ikeda K, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:95–109 (26 ref.)

GTP-binding proteins coupling to glutamate receptors on bovine retinal membranes. Kikkawa S, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:557–60

Pancreatic beta-cell receptors and G proteins coupled to adenylyl cyclase. Marie JC, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:122–31; discussion 132 (61 ref.)

Developmental changes and modulation through G-proteins of the hyperpolarization-activated inward current in embryonic chick heart. Satoh H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:413–6

Vasoactive intestinal peptide activates both Gs and Gi in lung. Shreeve SM, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:516–20

Mode of interactions between metabotropic glutamate receptors and G proteins in Xenopus oocyte. Sugiyama H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:515–7

Regulation of Ca2+ mobilization by beta-adrenergic receptor in Jurkat human leukemia T-cells. Takemura H, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:489–91

Inhibition of GTP gamma S-dependent phospholipase D and Rho membrane association by calphostin is independent of protein kinase C catalytic activity. Dubyak GR, et al. **Arch Biochem Biophys** 1997 May 1;341(1):129–39

Endothelial cell tyrosine kinase receptor and G protein-coupled receptor activation involves distinct protein kinase C isoforms. Haller H, et al. **Arterioscler Thromb Vasc Biol** 1996 May;16(5):678–86

Altered G-protein coupling of a frontal cortical low affinity [3H]8-hydroxy-N,N-dipropyl-2-aminotetralin serotonergic binding site in Alzheimer's disease. Weinstein D, et al. **Behav Brain Res** 1996;73(1–2):325–9

Molecular cloning and tissue expression of a novel orphan G protein-coupled receptor from rat lung. Bonini JA, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):190–3

L-selectin regulates actin polymerisation via activation of the small G-protein Rac2. Brenner B, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):802–7

Evidence for G-protein-dependent and G-protein-independent activation of phospholipase D in lymphocytes. Cao YZ, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):630–4

The nucleolar phosphoprotein P130 is a GTPase/ATPase with intrinsic property to form large complexes triggered by F- and Mg2+. Chen HK, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):370–5

Expression of rac1 protein in the crypt-villus axis of rat small intestine: in reference to insulin action. Chono E, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):455–8

Two isoforms of prostaglandin EP3 receptor exhibiting constitutive activity and agonist-dependent activity in Rho-mediated stress fiber formation. Hasegawa H, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):631–6

The ras-related protein Ral is monoglucosylated by Clostridium sordellii lethal toxin. Hofmann F, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):77–81

Identification of domains of the cardiac inward rectifying K+ channel, CIR, involved in the heteromultimer formation and in the G-protein gating. Kubo Y, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):240–7

RalA interacts directly with the Arf-responsive, PIP2-dependent phospholipase D1. Luo JQ, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):854–9

A novel G protein-coupled receptor with homology to neuropeptide and chemoattractant receptors expressed during bone development. Methner A, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):336–42

Interaction of both the C2A and C2B domains of rabphilin3 with Ca2+ and phospholipid. Oishi H, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):498–503

Method for identifying ligands activating either excitatory or inhibitory G-protein-coupled receptors by functional coexpression in Xenopus oocytes. Owman C, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):853–6

The angiotensin II type 2 receptor primarily inhibits cell growth via pertussis toxin-sensitive G proteins. Ozawa Y, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):328–33

Identification of Goalpha, Gqalpha, and Gsalpha immunoreactivity associated with the rat pancreatic zymogen granule membrane. Padfield PJ, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):235–8

Endogenous ADP-ribosylation of a G(alpha i) protein in bovine ciliary body is stimulated by nitric oxide. Pozdnyakov N, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):482–6

Interaction of Rabphilin3 with synaptic vesicles through multiple regions. Senbonmatsu T, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):567–72

Wortmannin-sensitive activation of p70S6-kinase and MAP-kinase by the G protein-coupled receptor, G/CCKB. Seva C, et al.

Biochem Biophys Res Commun 1997 Sep 8;238(1):202–6

Facilitation of Ca2+ action potential frequency by a small G protein Rab3A in rat pituitary GH3 cells. Suzuki N, et al. **Biochem Biophys Res Commun** 1997 Jun 18; 235(2):331–5

Palmitoylation: a post-translational modification that regulates signalling from G-protein coupled receptors. Morello JP, et al. **Biochem Cell Biol** 1996;74(4):449–57 (70 ref.)

ADP-ribosylation of the GTP-binding protein RhoA blocks cytoplasmic division in human myelomonocytic cells. Aepfelbacher M, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):853–8

Regulatory mechanisms that modulate signalling by G-protein-coupled receptors. Böhm SK, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):1–18 (237 ref.)

Agonist activation of p42 and p44 mitogen-activated protein kinases following expression of the mouse delta opioid receptor in Rat-1 fibroblasts: effects of receptor expression levels and comparisons with G-protein activation. Burt AR, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):227–35

Signal-transducing protein phosphorylation cascades mediated by Ras/Rho proteins in the mammalian cell: the potential for multiplex signalling. Denhardt DT. **Biochem J** 1996 Sep 15;318 (Pt 3):729–47 (228 ref.)

Mechanisms of NADPH oxidase activation in human neutrophils: p67phox is required for the translocation of rac 1 but not of rac 2 from cytosol to the membranes. Dusi S, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):991–4

Signalling functions and biochemical properties of pertussis toxin-resistant G-proteins. Fields TA, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):561–71 (242 ref.)

Characterization of heterotrimeric G-proteins in adult Acanthocheilonema viteae. Grant KR, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):459–66

Rab 3D in rat adipose cells and its overexpression in genetic obesity (Zucker fatty rat). Guerre-Millo M, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):89–93

Separate upstream and convergent downstream pathways of G-protein- and phorbol ester-mediated Ca2+ sensitization of myosin light chain phosphorylation in smooth muscle. Jensen PE, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):469–75

Interaction of Nck-associated protein 1 with activated GTP-binding protein Rac. Kitamura Y, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):873–8

A constitutively active mutant of the alpha 1B-adrenergic receptor can cause greater agonist-dependent down-regulation of the G-proteins G9 alpha and G11 alpha than the wild-type receptor. Lee TW, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):79–86

Maintenance of cellular levels of G-proteins: different efficiencies of alpha s and alpha o synthesis in GH3 cells. Li Y, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1071–7

Characterization of Rab3A, Rab3B and Rab3C: different biochemical properties and intracellular localization in bovine chromaffin cells. Lin CG, et al. **Biochem J** 1997 May 15;324 (Pt 1):85–90

G-protein betagamma subunits antagonize protein kinase C-dependent phosphorylation and inhibition of phospholipase C-beta1. Litosch I. **Biochem J** 1997 Sep 15; 326 (Pt 3):701–7

ADP-ribosylation-factor-regulated phospholipase D activity localizes to secretory vesicles and mobilizes to the plasma membrane following N-formylmethionyl-leucyl-phenylalanine stimulation of human neutrophils. Morgan CP, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):581–5

Direct modulation of G-proteins by polyunsaturated fatty acids: a novel eicosanoid-independent regulatory mechanism in the developing lung. Mukhopadhyay S, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):725–30

Species- and tissue-dependent diversity of G-protein beta subunit phosphorylation: evidence for a cofactor. Nürnberg B, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):717–22

Tissue-specific distribution and subcellular distribution of phospholipase D in rat: evidence for distinct RhoA- and ADP-ribosylation factor (ARF)-regulated isoenzymes. Provost JJ, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):285–91

Resolution of two ADP-ribosylation factor 1 GTPase-activating proteins from rat liver. Randazzo PA. **Biochem J** 1997 Jun 1;324 (Pt 2):413–9

Biochemical characteristics of a rice (Oryza sativa L., IR36) G-protein alpha-subunit expressed in Escherichia coli. Seo HS, et al. **Biochem J** 1997 May 15;324 (Pt 1):273–81

Rat basophilic leukaemia (RBL) cells overexpressing Rab3a have a reversible block in antigen-stimulated exocytosis. Smith J, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):321–8

Lipid kinase and protein kinase activities of G-protein-coupled phosphoinositide 3-kinase gamma: structure-activity analysis and interactions with wortmannin. Stoyanova S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):489–95

Regulation of reactive-oxygen-species generation in fibroblasts by Rac1. Sundaresan M, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):379–82

Characterization of the intracellular signalling pathways that underlie growth-factor-stimulated glucose transport in Xenopus oocytes: evidence for ras- and rho-dependent pathways of phosphatidylinositol 3-kinase activation. Thomson FJ, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):637–43

Bombesin and thrombin affect discrete pools of intracellular calcium through different G-proteins. Wang JL, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):87–91

ADP-ribosylation factor 1-regulated phospholipase D activity is localized at the plasma membrane and intracellular organelles in HL60 cells. Whatmore J, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):785–94

Prenylation of a Rab1B mutant with altered GTPase activity is impaired in cell-free systems but not in intact mammalian cells. Wilson AL, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1007–14

Interactions of the alpha2A-adrenoceptor with multiple Gi-family G-proteins: studies with pertussis toxin-resistant G-protein mutants [published erratum appears in Biochem J 1997 May 1;323 (Pt 3):864] Wise A, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):721–8

Modulation of sperm acrosomal exocytosis by guanyl nucleotides and G-protein-modifier agents. Brandelli A. **Biochem Mol Biol Int** 1997 May;41(6):1217–25

Role of subunit diversity in signaling by heterotrimeric G proteins. Hildebrandt JD. **Biochem Pharmacol** 1997 Aug 1;54(3):325–39 (229 ref.)

Activation by beta-carbolines of G-proteins in HL-60 membranes and the bovine retinal G-protein transducin in a receptor-independent manner. Klinker JF, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1621–6

Geranylgeranylation of Rab proteins. Desnoyers L, et al. **Biochem Soc Trans** 1996 Aug;24(3):699–703 (27 ref.)

Prolactin modulates G-protein levels in the rat mammary gland. Kilgour E. **Biochem Soc Trans** 1996 Aug;24(3):359S

Prenylation-dependent interaction of Rab proteins with GDP dissociation inhibitors. Maltese WA, et al. **Biochem Soc Trans** 1996 Aug;24(3):703–8 (50 ref.)

N-terminal hydrophobic residues of the G-protein ADP-ribosylation factor-1 insert into membrane phospholipids upon GDP to GTP exchange. Antonny B, et al. **Biochemistry** 1997 Apr 15;36(15):4675–84

Isoprenylation of the G protein gamma subunit is both necessary and sufficient for beta gamma dimer-mediated stimulation of phospholipase C. Dietrich A, et al. **Biochemistry** 1996 Dec 3;35(48):15174–82

Ras-dependent activation of fibroblast mitogen-activated protein kinase by 5-HT1A receptor via a G protein beta gamma-subunit-initiated pathway. Garnovskaya MN, et al. **Biochemistry** 1996 Oct 29;35(43):13716–22

Cardiac muscarinic receptors. Relationship between the G protein and multiple states of affinity. Green MA, et al. **Biochemistry** 1997 Jun 17;36(24):7380–94

In vivo reconstitution of dopamine D2S receptor-mediated G protein activation in baculovirus-infected insect cells: preferred coupling to Gi1 versus Gi2. Grünewald S, et al. **Biochemistry** 1996 Dec 3;35(48):15162–73

Membrane association of Rac is required for high activity of the respiratory burst oxidase. Kreck ML, et al. **Biochemistry** 1996 Dec 10;35(49):15683–92

Dynamic and equilibrium studies on the interaction of Ran with its effector, RanBP1. Kuhlmann J, et al. **Biochemistry** 1997 Oct 7;36(40):12027–35

Use of a fluorescence spectroscopic readout to characterize the interactions of Cdc42Hs with its target/effector, mPAK-3. Leonard DA, et al. **Biochemistry** 1997 Feb 4; 36(5):1173–80

G-protein-mediated signaling in cholesterol-enriched arterial smooth muscle cells. 1. Reduced membrane-associated G-protein content due to diminished isoprenylation of G-gamma subunits and p21ras. Pomerantz KB, et al. **Biochemistry** 1997 Aug 5;36(31):9523–31

G-protein-mediated signaling in cholesterol-enriched arterial smooth muscle cells. 2. Role of protein kinase C-delta in the regulation of eicosanoid production. Pomerantz KB, et al. **Biochemistry** 1997 Aug 5; 36(31):9532–9

Pertussis toxin: transition state analysis for ADP-ribosylation of G-protein peptide alphai3C20. Scheuring J, et al. **Biochemistry** 1997 Jul 8;36(27):8215–23

Association of cytosolic Rab4 with GDI isoforms in insulin-sensitive 3T3-L1 adipocytes. Shisheva A, et al. **Biochemistry** 1997 Jun 3;36(22):6564–70

Partial constitutive activation of pheromone responses by a palmitoylation-site mutant of a G protein alpha subunit in yeast. Song J, et al. **Biochemistry** 1996 Nov 26; 35(47):14806–17

Guanine nucleotide binding properties of Rac2 mutant proteins and analysis of the responsiveness to guanine nucleotide dissociation stimulator. Xu X, et al. **Biochemistry** 1997 Jan 21;36(3):626–32

A site of interaction between pleckstrin's PH domains and G beta gamma. Abrams CS, et al. **Biochim Biophys Acta** 1996 Dec 12;1314(3):233–8

Conductive Na+ transport in fetal lung alveolar apical membrane vesicles is regulated by fatty acids and G proteins. Fyfe GK, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):33–42

Specificity of interaction between receptor and G protein: use of antisense techniques to relate G-protein subunits to function. Kalkbrenner F, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1–2):125–39 (78 ref.)

Increased G alpha q/11 immunoreactivity in postmortem occipital cortex from patients with bipolar affective disorder. Mathews R, et al. **Biol Psychiatry** 1997 Mar 15; 41(6):649–56

Conformational characterization of a peptide mimetic of the third cytoplasmic loop of the G-protein coupled parathyroid hormone/parathyroid hormone related protein receptor. Pellegrini M, et al. **Biopolymers** 1996;40(6):653–66

Modulation of islet G-proteins, alpha-glucosidehydrolase inhibition and insulin release stimulated by various secretagogues. Salehi A, et al. **Biosci Rep** 1996 Feb; 16(1):23–34

Phospholipase C isoforms in vascular smooth muscle and their regulation by G-proteins. Blayney LM, et al. **Br J Pharmacol** 1996 Jun;118(4):1003–11

Effects of sigma ligands on the cloned mu-, delta- and kappa-opioid receptors co-expressed with G-protein-activated K+ (GIRK) channel in Xenopus oocytes. Kobayashi T, et al. **Br J Pharmacol** 1996 Sep; 119(1):73–80

Morphine dependence in human neuroblastoma SH-SY5Y cells is associated with adaptive changes in both the quantity and functional interaction of PGE1 receptors and stimulatory G proteins. Ammer H, et al. **Brain Res** 1996 Jan 29;707(2):235–44

G-proteins are involved in riluzole inhibition of high voltage-activated calcium channels in rat dorsal root ganglion neurons. Huang CS, et al. **Brain Res** 1997 Jul 11;762(1–2):235–9

ADP indirectly supports activation of non-selective cation channels by AlF complex in guinea-pig chromaffin cells. Inoue M, et al. **Brain Res** 1996 Jan 29;707(2):298–302

Brain pertussis toxin-sensitive G proteins are involved in the flavoxate hydrochloride-induced suppression of the micturition reflex in rats. Oka M, et al. **Brain Res** 1996 Jul 15;727(1–2):91–8

Involvement of metabotropic glutamate receptors in Gi- and Gs-dependent modulation of adenylate cyclase activity induced by a novel cognition enhancer NS-105 in rat brain. Oka M, et al. **Brain Res** 1997 Apr 18;754(1–2):121–30

Corticosterone alters G protein alpha-subunit levels in the rat hippocampus. Okuhara DY, et al. **Brain Res** 1997 Jan 16;745(1–2):144–51

Alterations in phosphoinositide signaling and G-protein levels in depressed suicide brain. Pacheco MA, et al. **Brain Res** 1996 Jun 3;723(1–2):37–45

Opioid receptor-coupled G-proteins in rat locus coeruleus membranes: decrease in activity after chronic morphine treatment. Selley DE, et al. **Brain Res** 1997 Jan 23; 746(1–2):10–8

Identification of adrenomedullin receptors in cultured rat astrocytes and in neuroblastboma x glioma hybrid cells (NG108-15). Zimmermann U, et al. **Brain Res** 1996 Jun 17;724(2):238–45

Inositol phosphate formation in mice prenatally exposed to drugs: relation to muscarinic receptors and postreceptor effects. Abu-Roumi M, et al. **Brain Res Bull** 1996; 40(3):183–6

Brain maturation of high-affinity adenosine A2 receptors and their coupling to G-proteins. Doriat JF, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1–2):1–9

G-protein-coupled receptor regulation: role of G-protein-coupled receptor kinases and arrestins. Ferguson SS, et al. **Can J Physiol Pharmacol** 1996 Oct; 74(10):1095–110 (137 ref.)

Endothelin-1 inhibition of cardiac ATP-sensitive K+ channels via pertussis-toxin-sensitive G-proteins. Watanuki M, et al. **Cardiovasc Res** 1997 Jan;33(1):123–30

Direct binding of FtsZ to ZipA, an essential component of the septal ring structure that mediates cell division in E. coli. Hale CA, et al. **Cell** 1997 Jan 24;88(2):175–85

A novel Rab5 GDP/GTP exchange factor complexed to Rabaptin-5 links nucleotide exchange to effector recruitment and function. Horiuchi H, et al. **Cell** 1997 Sep 19;90(6):1149–59

A GTPase controlling nuclear trafficking: running the right way or walking RANdomly? Koepp DM, et al. **Cell** 1996 Oct 4;87(1):1–4 (19 ref.)

The yeast phosphatidylinositol kinase homolog TOR2 activates RHO1 and RHO2 via the exchange factor ROM2. Schmidt A, et al. **Cell** 1997 Feb 21;88(4):531–42

The G beta gamma sensitivity of a PI3K is dependent upon a tightly associated adaptor, p101. Stephens LR, et al. **Cell** 1997 Apr 4;89(1):105–14

Requirement for Rho in integrin signalling. Barry ST, et al. **Cell Adhes Commun** 1997 Mar;4(6):387–98

Receptor-dependent G protein-mediated Ca2+ sensitization in canine airway smooth muscle. Iizuka K, et al. **Cell Calcium** 1997 Jul;22(1):21–30

Targeting of a G alpha subunit (Gi1 alpha) and c-Src tyrosine kinase to caveolae membranes: clarifying the role of N-myristoylation. Song KS, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 May;43(3):293–303

GTP binding to Gs does not promote subunit dissociation. Basi NS, et al. **Cell Signal** 1996 Mar;8(3):209–15

Involvement of a pertussis-toxin sensitive G protein in the induction of gene expression by insulin. Butler AP, et al. **Cell Signal** 1996 Nov;8(7):475–80 (47 ref.)

G proteins in adipocytes and preadipocytes: characterization, subcellular distribution, and potential roles for Gi2 and/or Gi3 in the control of cell proliferation. Denis-Henriot D, et al. **Cell Signal** 1996 Mar;8(3):225–34

Mechanistic hypotheses for the activation of G-protein-coupled receptors. Fong TM. **Cell Signal** 1996 Mar;8(3):217–24 (74 ref.)

In vitro and in vivo growth inhibition of murine melanoma K-1735 cell by a dominant negative mutant alpha subunit of the Gi2 protein. Hermouet S, et al. **Cell Signal** 1996

Mar;8(3):159–66
Negative regulation of MAP kinase by diacylglycerol-dependent mechanisms via G protein-coupled receptors in rat basophilic RBL-2H3 (ml) cells. Hirasawa N, et al. **Cell Signal** 1997 May–Jun; 9(3–4):319–22
Signal transduction in gastrointestinal smooth muscle. Makhlouf GM, et al. **Cell Signal** 1997 May–Jun; 9(3–4):269–76 (92 ref.)
G proteins and opioid receptor-mediated signalling. Standifer KM, et al. **Cell Signal** 1997 May–Jun;9(3–4):237–48 (166 ref.)
Microtubule disruption induces the formation of actin stress fibers and focal adhesions in cultured cells: possible involvement of the rho signal cascade. Enomoto T. **Cell Struct Funct** 1996 Oct;21(5):317–26
Synthesis and characterization of bivalent peptide ligands targeted to G-protein-coupled receptors. Carrithers MD, et al. **Chem Biol** 1996 Jul;3(7):537–42
Social senses: G-protein-coupled receptor signaling pathways in Dictyostelium discoideum. Kim JY, et al. **Chem Biol** 1996 Apr;3(4):239–43 (21 ref.)
Getting it together: signal transduction in G-protein coupled receptors by association of receptor domains. Underwood DJ, et al. **Chem Biol** 1997 Apr;4(4):239–48 (81 ref.)
GUST27 and closely related G-protein-coupled receptors are localized in taste buds together with Gi-protein alpha-subunit. Kusakabe Y, et al. **Chem Senses** 1996 Jun; 21(3):335–40
Fluid flow rapidly activates G proteins in human endothelial cells. Involvement of G proteins in mechanochemical signal transduction. Gudi SR, et al. **Circ Res** 1996 Oct;79(4):834–9
Physiological and biochemical evidence for coordinate increases in muscarinic receptors and Gi during pacing-induced heart failure. Vatner DE, et al. **Circulation** 1996 Jul 1;94(1):102–7
Dopamine-1 receptor G-protein coupling and the involvement of phospholipase A2 in dopamine-1 receptor mediated cellular signaling mechanisms in the proximal tubules of SHR. Hussain T, et al. **Clin Exp Hypertens** 1997 Jan–Feb;19(1–2):131–40 (31 ref.)
The ARF GTPases: defining roles in membrane traffic and organelle structure. Donaldson JG, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:229–34 (45 ref.)
The GDP/GTP cycle of Rab5 in the regulation of endocytotic membrane traffic. Vitale G, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:211–20
Effects of benzalkonium salts on eukaryotic and microbial G-protein-mediated processes and surface membranes. Patarca R, et al. **Crit Rev Oncog** 1995;6(3–6):327–56 (412 ref.)
Two GTPases, Cdc42 and Rac, bind directly to a protein implicated in the immunodeficiency disorder Wiskott–Aldrich syndrome. Aspenström P, et al. **Curr Biol** 1996 Jan 1;6(1):70–5
A Cdc42 target protein with homology to the non-kinase domain of FER has a potential role in regulating the actin cytoskeleton. Aspenström P. **Curr Biol** 1997 Jul 1; 7(7):479–87
Intracellular signalling: more jobs for G beta gamma. Clapham DE. **Curr Biol** 1996 Jul 1;6(7):814–6 (12 ref.)
ARF and PITP restore GTP gamma S-stimulated protein secretion from cytosol-depleted HL60 cells by promoting PIP2 synthesis. Fensome A, et al. **Curr Biol** 1996 Jun 1; 6(6):730–8
Rho is only ARF the story. Phospholipid signalling. Frohman MA, et al. **Curr Biol** 1996 Aug 1;6(8):945–7 (24 ref.)
The aimless RasGEF is required for processing of chemotactic signals through G-protein-coupled receptors in Dictyostelium. Insall RH, et al. **Curr Biol** 1996 Jun 1; 6(6):719–29
Disease mechanism: unravelling Wiskott–Aldrich syndrome. Kirchhausen T, et al. **Curr Biol** 1996 Jun 1;6(6):676–8 (19 ref.)
Nuclear pores: David and Goliath in nuclear transport. Moore MS. **Curr Biol** 1995 Dec 1;5(12):1339–41 (11 ref.)
Phosphatidylinositol 3-kinase signals activate a selective subset of Rac/Rho-dependent effector pathways. Reif K, et al. **Curr Biol** 1996 Nov 1;6(11):1445–55
Rac is required for v-Abl tyrosine kinase to activate mitogenesis. Renshaw MW, et al. **Curr Biol** 1996 Jan 1; 6(1):76–83
Vesicle traffic: get your coat! Schimmöller F, et al. **Curr Biol** 1997 Apr 1;7(4):R235–7 (19 ref.)
ARF proteins mediate insulin-dependent activation of phospholipase D. Shome K, et al. **Curr Biol** 1997 Jun 1; 7(6):387–96
Structural aspects of heterotrimeric G-protein signaling. Bohm A, et al. **Curr Opin Biotechnol** 1997 Aug;8(4):480–7 (52 ref.)
How receptors talk to trimeric G proteins. Bourne HR. **Curr Opin Cell Biol** 1997 Apr;9(2):134–42 (66 ref.)
Receptor-regulated ion channels. Jan LY, et al. **Curr Opin Cell Biol** 1997 Apr;9(2):155–60 (60 ref.)
A new family of G-protein regulators – the RGS proteins. Koelle MR. **Curr Opin Cell Biol** 1997 Apr;9(2):143–7 (35 ref.)
Lysophosphatidic acid: G-protein signalling and cellular responses. Moolenaar WH, et al. **Curr Opin Cell Biol** 1997 Apr;9(2):168–73
Rho, Rac and Cdc42 GTPases regulate the organization of the actin cytoskeleton. Tapon N, et al. **Curr Opin Cell Biol** 1997 Feb;9(1):86–92 (44 ref.)
Signal transduction processes in the developing brain: perturbations of G protein alpha-subunit abundances by perinatal hypothyroidism. Leung FC, et al. **Dev Neurosci** 1996;18(3):153–61
The alpha2-adrenergic receptor is more effective than the galanin receptor in activating G-proteins in RINm5F beta-cell membranes. Gillison SL, et al. **Diabetes** 1997 Mar; 46(3):401–7
GTPase activating protein activity for Rab4 is enriched in the plasma membrane of 3T3-L1 adipocytes. Possible involvement in the regulation of Rab4 subcellular localization. Bortoluzzi MN, et al. **Diabetologia** 1996 Aug; 39(8):899–906
Comparison of mRNA expression of two regulators of G-protein signaling, RGS1/BL34/1R20 and RGS2/G0S8, in cultured human blood mononuclear cells. Heximer SP, et al. **DNA Cell Biol** 1997 May;16(5):589–98
Mitotic phosphorylation of rab4 prevents binding to a specific receptor on endosome membranes. Ayad N, et al. **EMBO J** 1997 Aug 1;16(15):4497–507
Identification of a GDI displacement factor that releases endosomal Rab GTPases from Rab-GDI. Dirac-Svejstrup AB, et al. **EMBO J** 1997 Feb 3;16(3):465–72
MEK kinases are regulated by EGF and selectively interact with Rac/Cdc42. Fanger GR, et al. **EMBO J** 1997 Aug 15;16(16):4961–72
Rapid Ca2+-mediated activation of Rap1 in human platelets. Franke B, et al. **EMBO J** 1997 Jan 15;16(2):252–9
G protein betagamma complex-mediated apoptosis by familial Alzheimer's disease mutant of APP. Giambarella U, et al. **EMBO J** 1997 Aug 15;16(16):4897–907
Identification of different roles for RanGDP and RanGTP in nuclear protein import. Görlich D, et al. **EMBO J** 1996 Oct 15;15(20):5584–94
Aspergillus sporulation and mycotoxin production both require inactivation of the FadA G alpha protein-dependent signaling pathway. Hicks JK, et al. **EMBO J** 1997 Aug 15;16(16):4916–23
Bni1p and Bnr1p: downstream targets of the Rho family small G-proteins which interact with profilin and regulate actin cytoskeleton in Saccharomyces cerevisiae. Imamura H, et al. **EMBO J** 1997 May 15;16(10):2745–55
Bni1p implicated in cytoskeletal control is a putative target of Rho1p small GTP binding protein in Saccharomyces cerevisiae. Kohno H, et al. **EMBO J** 1996 Nov 15; 15(22):6060–8
Functional characterization of the Cdc42p binding domain of yeast Ste20p protein kinase. Leberer E, et al. **EMBO J** 1997 Jan 2;16(1):83–97
Rho guanine nucleotide dissociation inhibitor protein (RhoGDI) inhibits exocytosis in mast cells. Mariot P, et al. **EMBO J** 1996 Dec 2;15(23):6476–82
Dis3, implicated in mitotic control, binds directly to Ran and enhances the GEF activity of RCC1. Noguchi E, et al. **EMBO J** 1996 Oct 15;15(20):5595–605
Direct activation of trpl cation channels by G alpha11 subunits. Obukhov AG, et al. **EMBO J** 1996 Nov 1; 15(21):5833–8
Functional analysis of the interaction between the small GTP binding protein Cdc42 and the Ste20 protein kinase in yeast. Peter M, et al. **EMBO J** 1996 Dec 16;15(24):7046–59
p619, a giant protein related to the chromosome condensation regulator RCC1, stimulates guanine nucleotide exchange on ARF1 and Rab proteins [published erratum appears in EMBO J 1996 Oct 15;15(20):5738] Rosa JL, et al. **EMBO J** 1996 Aug 15;15(16):4262–73
Transformation by Rho exchange factor oncogenes is mediated by activation of an integrin-dependent pathway. Schwartz MA, et al. **EMBO J** 1996 Dec 2;15(23):6525–30
p140mDia, a mammalian homolog of Drosophila diaphanous, is a target protein for Rho small GTPase and is a ligand for profilin. Watanabe N, et al. **EMBO J** 1997 Jun 2; 16(11):3044–56
Mitogenic signaling via G protein-coupled receptors. van Biesen T, et al. **Endocr Rev** 1996 Dec;17(6):698–714 (272 ref.)
Suppression of thyrotropin receptor–G protein-phospholipase C coupling by activation of protein kinase C in thyroid carcinoma cells. Broecker M, et al. **Endocrinology** 1997 Sep;138(9):3787–96
Insulin induces a change in Rab5 subcellular localization in adipocytes independently of phosphatidylinositol 3-kinase activation. Cormont M, et al. **Endocrinology** 1996 Aug; 137(8):3408–15
Potential role for a regulator of G protein signaling (RGS3) in gonadotropin-releasing hormone (GnRH) stimulated desensitization. Neill JD, et al. **Endocrinology** 1997 Feb; 138(2):843–6
Dimerization of Cdc25p, the guanine-nucleotide exchange factor for Ras from Saccharomyces cerevisiae, and its interaction with Sdc25p. Camus C, et al. **Eur J Biochem** 1997 Jul 15;247(2):703–8
Identification of a short sequence highly divergent between beta-adrenergic-receptor kinases 1 and 2 that determines the affinity of binding to betagamma subunits of heterotrimeric guanine-nucleotide-binding regulatory proteins. Chuang TT, et al. **Eur J Biochem** 1997 May 1; 245(3):533–40
An ADP-ribosylation-factor(ARF)-like protein involved in regulated secretion. Icard-Liepkalns C, et al. **Eur J Biochem** 1997 Jun 1;246(2):388–93
Regulation of phosphorylation pathways by p21 GTPases. The p21 Ras-related Rho subfamily and its role in phosphorylation signalling pathways. Lim L, et al. **Eur J Biochem** 1996 Dec 1;242(2):171–85 (123 ref.)
Microtubules are involved in bafilomycin A1-induced tubulation and Rab5-dependent vacuolation of early endosomes. D'Arrigo A, et al. **Eur J Cell Biol** 1997 Feb; 72(2):95–103
Expression and localization of RAP1 proteins during myogenic differentiation. Pizon V, et al. **Eur J Cell Biol** 1996 Mar;69(3):224–35
The expression pattern of rab3D in the developing rat exocrine pancreas coincides with the acquisition of regulated exocytosis. Valentijn JA, et al. **Eur J Cell Biol** 1996 Oct;71(2):129–36
Rab4 associates with the actin terminal web in developing rat pancreatic acinar cells. Valentijn JA, et al. **Eur J Cell Biol** 1997 Jan;72(1):1–8
ADP-ribosylation of Rho-proteins with botulinum C3 exoenzyme inhibits invasion and shape changes of T-lymphoma cells. Verschueren H, et al. **Eur J Cell Biol** 1997 Jun;73(2):182–7
Effects of metoprolol on myocardial beta-adrenoceptors and Gi alpha-proteins in patients with congestive heart failure. Sigmund M, et al. **Eur J Clin Pharmacol** 1996;51(2):127–32
Two murine homologues of the human chemokine receptor CXCR4 mediating stromal cell-derived factor 1alpha activation of Gi2 are differentially expressed in vivo. Moepps B, et al. **Eur J Immunol** 1997 Aug;27(8):2102–12
Cholera and pertussis toxins reveal multiple regulation of cAMP levels in the rabbit carotid body. Cachero TG, et al. **Eur J Neurosci** 1996 Nov;8(11):2320–7
Chronic exposure of NG 108–15 cells to inhibitory acting drugs reduces stimulatory prostaglandin E1 receptor number. Ammer H, et al. **Eur J Pharmacol** 1996 Apr 29; 302(1–3):199–205
Elimination of palmitoylation sites in the human dopamine D1 receptor does not affect receptor–G protein interaction. Jin H, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):109–16
Differential changes of myocardial beta-adrenoceptor subtypes and G-proteins in dogs with right-sided congestive heart failure. Lai LP, et al. **Eur J Pharmacol** 1996 Aug 8;309(2):201–8
Hippocampal and cortical G protein (Gs alpha, G(o) alpha and Gi2 alpha) mRNA expression after electroconvulsive shock or lithium carbonate treatment. McGowan S, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):249–55
A rhodopsin-based model for melatonin recognition at its G protein-coupled receptor. Navajas C, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):173–83
Direct evidence for two distinct G proteins coupling with thrombin receptors in human neuroblastoma SH-EP cells. Ogino Y, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):105–9
Selective enhancement of antagonist ligand binding at muscarinic M2 receptors by heparin due to receptor uncoupling. Wang SZ, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):113–8
GR127935 acts as a partial agonist at recombinant human 5-HT1D alpha and 5-HT1D beta receptors. Watson JM, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):365–72
Activation of G-proteins with AIF-4 induces LFA-1-mediated adhesion of T-cell hybridoma cells to ICAM-1 by signal pathways that differ from phorbol ester- and manganese-induced adhesion. Driessens MH, et al. **Exp Cell Res** 1997 Mar 15;231(2):242–50
Bordetella bronchiseptica dermonecrotizing toxin, which activates a small GTP-binding protein rho, induces membrane organelle proliferation and caveolae formation. Senda T, et al. **Exp Cell Res** 1997 Jan 10;230(1):163–8
Interplay between Ras-related and heterotrimeric GTP binding proteins: lifestyles of the BIG and little. Bokoch GM. **FASEB J** 1996 Sep;10(11):1290–5 (71 ref.)
Identification of G-protein binding sites of the human interleukin-8 receptors by functional mapping of the intracellular loops. Damaj BB, et al. **FASEB J** 1996 Oct; 10(12):1426–34
The GTP binding motif: variations on a theme. Kjeldgaard M, et al. **FASEB J** 1996 Oct;10(12):1347–68 (81 ref.)
G-protein-coupled receptors: molecular mechanisms involved in receptor activation and selectivity of G-protein recognition. Wess J. **FASEB J** 1997 Apr;11(5):346–54 (87 ref.)
Aluminum fluoride associates with the small guanine nucleotide binding proteins. Ahmadian MR, et al. **FEBS Lett** 1997 May 26;408(3):315–8
Exclusive expression of the Gs-linked prostaglandin E2 receptor subtype 4 mRNA in mononuclear Jurkat and KM-3 cells and coexpression of subtype 4 and 2 mRNA in U-937 cells. Blaschke V, et al. **FEBS Lett** 1996 Sep 23;394(1):39–43
A cell-density sensing factor regulates the lifetime of a chemoattractant-induced G alpha-GTP conformation. Brazill DT, et al. **FEBS Lett** 1997 Mar 3;404(1):100–4
Effect of mevalonate availability on the association of G-protein alpha-subunits with the plasma membrane in GH4C1 cells. Chiloeches A, et al. **FEBS Lett** 1997 Jan 13;401(1):68–72
Identification of Mel1a melatonin receptors in the human embryonic kidney cell line HEK293: evidence of G protein-coupled melatonin receptors which do not mediate the inhibition of stimulated cyclic AMP levels. Conway S, et al. **FEBS Lett** 1997 Apr 21;407(1):121–6

The arrangement of the transmembrane helices in the secretin receptor family of G–protein–coupled receptors. Donnelly D. **FEBS Lett** 1997 Jun 16;409(3):431–6

Interaction of G protein Gbetagamma dimers with small GTP–binding proteins of the Rho family. Harhammer R, et al. **FEBS Lett** 1996 Dec 16;399(3):211–4

Functional role of carboxyl–terminal tail of prostaglandin EP3 receptor in Gi coupling. Hizaki H, et al. **FEBS Lett** 1997 Sep 8;414(2):323–6

Binding of the G protein betagamma subunit to multiple regions of G protein–gated inward–rectifying K+ channels. Huang CL, et al. **FEBS Lett** 1997 Apr 1; 405(3):291–8

Muscarinic receptor–stimulated cytosol–membrane translocation of RhoA. Keller J, et al. **FEBS Lett** 1997 Feb 24;403(3):299–302

A novel system that reports the G–proteins linked to a given receptor: a study of type 3 somatostatin receptor. Komatsuzaki K, et al. **FEBS Lett** 1997 Apr 7; 406(1–2):165–70

Regulation of proliferation and apoptosis by Ras and Rho GTPases through specific phospholipid–dependent signaling. Lacal JC. **FEBS Lett** 1997 Jun 23;410(1):73–7 (59 ref.)

The post–translational modifications of Ral and Rac1 are important for the action of Ral–binding protein 1, a putative effector protein of Ral. Matsubara K, et al. **FEBS Lett** 1997 Jun 30;410(2–3):169–74

Selectivity of beta–adrenergic receptor kinase 2 for G protein betagamma subunits. Müller S, et al. **FEBS Lett** 1997 Jan 13;401(1):25–9

The basal subcellular distribution of beta–adrenergic receptor kinase is independent of G–protein beta gamma subunits. Murga C, et al. **FEBS Lett** 1997 Jun 2;409(1):24–8

Rho effectors and reorganization of actin cytoskeleton. Narumiya S, et al. **FEBS Lett** 1997 Jun 23;410(1):68–72 (41 ref.)

Interaction of human retinal RGS with G–protein alpha–subunits. Natochin M, et al. **FEBS Lett** 1997 Jul 14; 411(2–3):179–82

Mutational analysis of the mouse 5–HT7 receptor: importance of the third intracellular loop for receptor–G–protein interaction. Obosi LA, et al. **FEBS Lett** 1997 Jul 28; 412(2):321–4

A domain containing the Cdc42/Rac interactive binding (CRIB) region of p65PAK inhibits transcriptional activation and cell transformation mediated by the Ras–Rac pathway. Osada S, et al. **FEBS Lett** 1997 Mar 10; 404(2–3):227–33

Mastoparan and Rab3AL peptide potentiation of calcium–independent secretory activity in rat melanotrophs is inhibited by GDPbetaS. Rupnik M, et al. **FEBS Lett** 1997 Jul 14;411(2–3):356–8

Identification of a C–terminal binding site for G–protein betagamma–subunits in phosducin–like protein. Schröder S, et al. **FEBS Lett** 1997 Jan 20;401(2–3):243–6

RAP1–like binding activity in islet cells corresponds to members of the Sp1 family of transcription factors. Simon B, et al. **FEBS Lett** 1997 Jul 14;411(2–3):383–8

The G protein alpha subunit (GP alpha1) is associated with the ER and the plasma membrane in meristematic cells of Arabidopsis and cauliflower. Weiss CA, et al. **FEBS Lett** 1997 May 5;407(3):361–7

Interaction of the G–protein G11alpha with receptors and phosphoinositidase C: the contribution of G–protein palmitoylation and membrane association. Wise A, et al. **FEBS Lett** 1997 May 5;407(3):257–60

Deletion of the putative effector region of Era, an essential GTP–binding protein in Escherichia coli, causes a dominant–negative phenotype. Pillutla RC, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):47–55

Modulation of the calcium sensitivity of the smooth muscle contractile apparatus: molecular mechanisms, pharmacological and pathophysiological implications. Savineau JP, et al. **Fundam Clin Pharmacol** 1997; 11(4):289–99 (103 ref.)

Identification and cDNA cloning of a novel human mosaic protein, LGN, based on interaction with G alpha i2. Mochizuki N, et al. **Gene** 1996 Nov 28;181(1–2):39–43

Cloning and chromosomal mapping of four putative novel human G–protein–coupled receptor genes. O'Dowd BF, et al. **Gene** 1997 Mar 10;187(1):75–81

Molecular identification of a G protein–coupled receptor family which is expressed in planarians. Saitoh O, et al. **Gene** 1997 Aug 11;195(1):55–61

Rab3A small GTP–binding protein in Ca(2+)–dependent exocytosis. Takai Y, et al. **Genes Cells** 1996 Jul;1(7):615–32 (108 ref.)

Activation of the nuclear factor–kappaB by Rho, CDC42, and Rac–1 proteins. Perona R, et al. **Genes Dev** 1997 Feb 15;11(4):463–75

A novel Rap1p–interacting factor, Rif2p, cooperates with Rif1p to regulate telomere length in Saccharomyces cerevisiae. Wotton D, et al. **Genes Dev** 1997 Mar 15; 11(6):748–60

Cloning of STRL22, a new human gene encoding a G–protein–coupled receptor related to chemokine receptors and located on chromosome 6q27. Liao F, et al. **Genomics** 1997 Feb 15;40(1):175–80

Genomic organization and promoter analysis of the human G–protein–coupled K+ channel Kir3.1 (KCNJ3/HGIRK1). Schoots O, et al. **Genomics** 1997 Feb 1;39(3):279–88

Isolation and chromosomal localization of GPR31, a human gene encoding a putative G protein–coupled receptor. Zingoni A, et al. **Genomics** 1997 Jun 15;42(3):519–23

GNAZ in human fetal cochlea: expression, localization, and potential role in inner ear function. Magovcevic I, et al. **Hear Res** 1995 Oct;90(1–2):55–64

The molecular basis of disorders caused by defects in G proteins. Spiegel AM. **Horm Res** 1997;47(3):89–96 (28 ref.)

Hot fusion breakthrough for AIDS research. **Immunol Today** 1996 Jul;17(7):299

Differential G–protein expression during B– and T–cell development. Grant KR, et al. **Immunology** 1997 Apr; 90(4):564–71

The antineoplastic drug vinorelbine activates non–immunological histamine release from rat mast cells. Estévez MD, et al. **Inflamm Res** 1997 Apr;46(4):119–24

Affinity purification of 61– and 65–kDa rat brain corticotropin–releasing factor receptors and receptor–associated G proteins. Gibbins JM, et al. **Int J Biochem Cell Biol** 1996 Sep;28(9):1017–29

Characteristic distribution of circulating autoantibodies against G–protein coupled cardiovascular receptors in patients with idiopathic dilated and hypertrophic cardiomyopathy. Matsui S, et al. **Int J Cardiol** 1996 May; 54(2):143–7 (28 ref.)

Characterization of G proteins in obstructed kidneys. Fukuzaki A, et al. **Int J Urol** 1996 Sep;3(5):386–91

Gs and Gq/11 couple vasoactive intestinal peptide and cholinergic stimulation to lacrimal secretion. Meneray MA, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1261–70

Interaction between FtsZ and inhibitors of cell division. Huang J, et al. **J Bacteriol** 1996 Sep;178(17):5080–5

Activation of Clostridium botulinum C3 exoenzyme–catalyzed ADP–ribosylation of RhoA by K+ in a Mg2+ –dependent manner. Miyaoka T, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):200–7

Characterization of yeast sar1 temperature–sensitive mutants, which are defective in protein transport from the endoplasmic reticulum. Yamanushi T, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):452–8

Molecular switch of F0F1–ATP synthase, G–protein, and other ATP–driven enzymes. Noji H, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):451–7 (35 ref.)

An effector–like function of Ras GTPase–activating protein predominates in cardiac muscle cells. Abdellatif M, et al. **J Biol Chem** 1997 Jan 3;272(1):525–33

Evidence for the direct involvement of transmembrane region 6 of the lutropin/choriogonadotropin receptor in activating Gs. Abell AN, et al. **J Biol Chem** 1997 Jun 6; 272(23):14586–91

Cell–permeable ceramides prevent the activation of phospholipase D by ADP–ribosylation factor and RhoA. Abousalham A, et al. **J Biol Chem** 1997 Jan 10; 272(2):1069–75

Phosphopleckstrin inhibits gbetagamma–activable platelet phosphatidylinositol–4,5–bisphosphate 3–kinase. Abrams CS, et al. **J Biol Chem** 1996 Oct 11;271(41):25192–7

Kalirin, a cytosolic protein with spectrin–like and GDP/GTP exchange factor–like domains that interacts with peptidylglycine alpha–amidating monooxygenase, an integral membrane peptide–processing enzyme. Alam MR, et al. **J Biol Chem** 1997 May 9;272(19):12667–75

Constitutively active Galphaq and Galpha13 trigger apoptosis through different pathways. Althoefer H, et al. **J Biol Chem** 1997 Sep 26;272(39):24380–6

Nuclear translocation of RhoA mediates the mitogen–induced activation of phospholipase D involved in nuclear envelope signal transduction. Baldassare JJ, et al. **J Biol Chem** 1997 Feb 21;272(8):4911–4

The P2U purinoceptor obligatorily engages the heterotrimeric G protein G16 to mobilize intracellular Ca2+ in human erythroleukemia cells. Baltensperger K, et al. **J Biol Chem** 1997 Apr 11;272(15):10151–9

Nuclear ADP–ribosylation factor (ARF)– and oleate–dependent phospholipase D (PLD) in rat liver cells. Increases of ARF–dependent PLD activity in regenerating liver cells. Banno Y, et al. **J Biol Chem** 1997 Feb 21; 272(8):5208–13

The GTPase–activating protein RGS4 stabilizes the transition state for nucleotide hydrolysis. Berman DM, et al. **J Biol Chem** 1996 Nov 1;271(44):27209–12

Rab4 and Rab7 define distinct nonoverlapping endosomal compartments. Bottger G, et al. **J Biol Chem** 1996 Nov 15;271(46):29191–7

Fas– or ceramide–induced apoptosis is mediated by a Rac1–regulated activation of Jun N–terminal kinase/p38 kinases and GADD153. Brenner B, et al. **J Biol Chem** 1997 Aug 29;272(35):22173–81

The third intracellular domain of the platelet–activating factor receptor is a critical determinant in receptor coupling to phosphoinositide phospholipase C–activating G proteins. Studies using intracellular domain minigenes and receptor chimeras. Carlson SA, et al. **J Biol Chem** 1996 Sep 20; 271(38):23146–53

A truncated form of RGS3 negatively regulates G protein–coupled receptor stimulation of adenylyl cyclase and phosphoinositide phospholipase C. Chatterjee TK, et al. **J Biol Chem** 1997 Jun 13;272(24):15481–7

Insertion of the 34–kDa chloroplast protein import component, IAP34, into the chloroplast outer membrane is dependent on its intrinsic GTP–binding capacity. Chen D, et al. **J Biol Chem** 1997 Mar 7;272(10):6614–20

The Caenorhabditis elegans p21–activated kinase (CePAK) colocalizes with CeRac1 and CDC42Ce at hypodermal cell boundaries during embryo elongation. Chen W, et al. **J Biol Chem** 1996 Oct 18;271(42):26362–8

Different binding domains for Ran–GTP and Ran–GDP/RanBP1 on nuclear import factor p97. Chi NC, et al. **J Biol Chem** 1997 Mar 7;272(10):6818–22

The heterotrimeric G protein G alpha i2 mediates lysophosphatidic acid–stimulated induction of the c–fos gene in mouse fibroblasts. Chuprun JK, et al. **J Biol Chem** 1997 Jan 10;272(2):773–81

The Ras–related protein Rheb is farnesylated and antagonizes Ras signaling and transformation. Clark GJ, et al. **J Biol Chem** 1997 Apr 18;272(16):10608–15

Inhibition of an inward rectifier potassium channel (Kir2.3) by G–protein betagamma subunits. Cohen NA, et al. **J Biol Chem** 1996 Dec 13;271(50):32301–5

Interactions of nucleotide release factor Dss4p with Sec4p in the post–Golgi secretory pathway of yeast. Collins RN, et al. **J Biol Chem** 1997 Jul 18;272(29):18281–9

G protein–coupled receptor kinase GRK2 is a phospholipid–dependent enzyme that can be conditionally activated by G protein betagamma subunits. DebBurman SK, et al. **J Biol Chem** 1996 Sep 13;271(37):22552–62

Dissection of pathways implicated in integrin–mediated actin cytoskeleton assembly. Involvement of protein kinase C, Rho GTPase, and tyrosine phosphorylation. Defilippi P, et al. **J Biol Chem** 1997 Aug 29;272(35):21726–34

Involvement of a heterotrimeric G protein alpha subunit in tight junction biogenesis. Denker BM, et al. **J Biol Chem** 1996 Oct 18;271(42):25750–3

Bradykinin sequesters B2 bradykinin receptors and the receptor–coupled Galpha subunits Galphaq and Galphai in caveolae in DDT1 MF–2 smooth muscle cells. de Weerd WF, et al. **J Biol Chem** 1997 Jul 11;272(28):17858–66

Characterization of a GTPase–activating protein that stimulates GTP hydrolysis by both ADP–ribosylation factor (ARF) and ARF–like proteins. Comparison to the ARD1 gap domain. Ding M, et al. **J Biol Chem** 1996 Sep 27;271(39):24005–9

ST–2, a telomere and subtelomere duplex and G–strand binding protein activity in Trypanosoma brucei. Eid JE, et al. **J Biol Chem** 1997 Jun 6;272(23):14927–36

Mammalian Cdc42 is a brefeldin A–sensitive component of the Golgi apparatus. Erickson JW, et al. **J Biol Chem** 1996 Oct 25;271(43):26850–4

Identification of an actin cytoskeletal complex that includes IQGAP and the Cdc42 GTPase. Erickson JW, et al. **J Biol Chem** 1997 Sep 26;272(39):24443–7

Purification and G protein subunit regulation of a phospholipase C–beta from Xenopus laevis oocytes. Filtz TM, et al. **J Biol Chem** 1996 Dec 6;271(49):31121–6

Calmodulin binds to and inhibits GTP binding of the ras–like GTPase Kir/Gem. Fischer R, et al. **J Biol Chem** 1996 Oct 11;271(41):25067–70

Structure of the C–terminal fragment 300–320 of the rat angiotensin II AT1A receptor and its relevance with respect to G–protein coupling. Franzoni L, et al. **J Biol Chem** 1997 Apr 11;272(15):9734–41

Phosphorylation and desensitization of human endothelin A and B receptors. Evidence for G protein–coupled receptor kinase specificity. Freedman NJ, et al. **J Biol Chem** 1997 Jul 11;272(28):17734–43

Isolation and characterization of a GTPase activating protein specific for the Rab3 subfamily of small G proteins. Fukui K, et al. **J Biol Chem** 1997 Feb 21;272(8):4655–8

Regulated exocytosis in chromaffin cells. A potential role for a secretory granule–associated ARF6 protein. Galas MC, et al. **J Biol Chem** 1997 Jan 31;272(5):2788–93

5–HT1A receptor activates Na+/H+ exchange in CHO–K1 cells through Gialpha2 and Gialpha3. Garnovskaya MN, et al. **J Biol Chem** 1997 Mar 21;272(12):7770–6

Lfc and Lsc oncoproteins represent two new guanine nucleotide exchange factors for the Rho GTP–binding protein. Glaven JA, et al. **J Biol Chem** 1996 Nov 1; 271(44):27374–81

Translocation of rhoA associated with Ca2+ sensitization of smooth muscle. Gong MC, et al. **J Biol Chem** 1997 Apr 18;272(16):10704–9

Fas–induced apoptosis is mediated by activation of a Ras and Rac protein–regulated signaling pathway. Gulbins E, et al. **J Biol Chem** 1996 Oct 18;271(42):26389–94

The acidic C–terminal domain of rna1p is required for the binding of Ran.GTP and for RanGAP activity. Haberland J, et al. **J Biol Chem** 1997 Sep 26;272(39):24717–26

Identification of a novel guanine nucleotide exchange factor for the Rho GTPase. Hart MJ, et al. **J Biol Chem** 1996 Oct 11;271(41):25452–8

Role of Rho family proteins in phospholipase D activation by growth factors. Hess JA, et al. **J Biol Chem** 1997 Jan 17;272(3):1615–20

A novel RING finger protein, Vps8p, functionally interacts with the small GTPase, Vps21p, to facilitate soluble vacuolar protein localization. Horazdovsky BF, et al. **J Biol Chem** 1996 Dec 27;271(52):33607–15

Coassociation of Rap1A and Ha–Ras with Raf–1 N–terminal region interferes with ras–dependent activation of Raf–1. Hu CD, et al. **J Biol Chem** 1997 May 2;272(18):11702–5

Enhancement of guanine–nucleotide exchange activity of C3G for Rap1 by the expression of Crk, CrkL, and Grb2. Ichiba T, et al. **J Biol Chem** 1997 Aug 29;272(35):22215–20

Alzheimer amyloid protein precursor is localized in nerve terminal preparations to Rab5-containing vesicular organelles distinct from those implicated in the synaptic vesicle pathway. Ikin AF, et al. **J Biol Chem** 1996 Dec 13;271(50):31783–6

Rab1a and multiple other Rab proteins are associated with the transcytotic pathway in rat liver. Jin M, et al. **J Biol Chem** 1996 Nov 22;271(47):30105–13

Differential effect of shear stress on extracellular signal-regulated kinase and N-terminal Jun kinase in endothelial cells. Gi2- and Gbeta/gamma-dependent signaling pathways. Jo H, et al. **J Biol Chem** 1997 Jan 10; 272(2):1395–401

Calmodulin modulates the interaction between IQGAP1 and Cdc42. Identification of IQGAP1 by nanoelectrospray tandem mass spectrometry. Joyal JL, et al. **J Biol Chem** 1997 Jun 13;272(24):15419–25

Arfaptin 1, a putative cytosolic target protein of ADP-ribosylation factor, is recruited to Golgi membranes. Kanoh H, et al. **J Biol Chem** 1997 Feb 28;272(9):5421–9

Activation of the calcium-permeable cation channel CD20 by alpha subunits of the Gi protein. Kanzaki M, et al. **J Biol Chem** 1997 Jun 6;272(23):14733–9

Activation and translocation of Rho (and ADP ribosylation factor) by insulin in rat adipocytes. Apparent involvement of phosphatidylinositol 3-kinase. Karnam P, et al. **J Biol Chem** 1997 Mar 7;272(10):6136–40

Physical and functional interaction of rabphilin-3A with alpha-actinin. Kato M, et al. **J Biol Chem** 1996 Dec 13; 271(50):31775–8

Gq-coupled receptors transmit the signal for GLUT4 translocation via an insulin-independent pathway. Kishi K, et al. **J Biol Chem** 1996 Oct 25;271(43):26561–8

Genetic analysis of receptor-Galphaq coupling selectivity. Kostenis E, et al. **J Biol Chem** 1997 Sep 19; 272(38):23675–81

The N-terminal extension of Galphaq is critical for constraining the selectivity of receptor coupling. Kostenis E, et al. **J Biol Chem** 1997 Aug 1;272(31):19107–10

Insulin-induced activation of NADPH-dependent H2O2 generation in human adipocyte plasma membranes is mediated by Galphai2. Krieger-Brauer HI, et al. **J Biol Chem** 1997 Apr 11;272(15):10135–43

Identification of IQGAP as a putative target for the small GTPases, Cdc42 and Rac1. Kuroda S, et al. **J Biol Chem** 1996 Sep 20;271(38):23363–7

Heterodimeric phosphoinositide 3-kinase consisting of p85 and p110beta is synergistically activated by the betagamma subunits of G proteins and phosphotyrosyl peptide. Kurosu H, et al. **J Biol Chem** 1997 Sep 26;272(39):24252–6

Cytotoxic necrotizing factor 1 from Escherichia coli and dermonecrotic toxin from Bordetella bronchiseptica induce p21(rho)-dependent tyrosine phosphorylation of focal adhesion kinase and paxillin in Swiss 3T3 cells. Lacerda HM, et al. **J Biol Chem** 1997 Apr 4;272(14):9587–96

Secretion of protease nexin-1 by C6 glioma cells is under the control of a heterotrimeric G protein, Go1. Lagriffoul A, et al. **J Biol Chem** 1996 Dec 6;271(49):31508–16

Elevation of intracellular cAMP inhibits RhoA activation and integrin-dependent leukocyte adhesion induced by chemoattractants. Laudanna C, et al. **J Biol Chem** 1997 Sep 26;272(39):24141–4

Farnesyltransferase inhibitors alter the prenylation and growth-stimulating function of RhoB. Lebowitz PF, et al. **J Biol Chem** 1997 Jun 20;272(25):15591–4

Prenylation of RhoB is required for its cell transforming function but not its ability to activate serum response element-dependent transcription. Lebowitz PF, et al. **J Biol Chem** 1997 Jun 27;272(26):16093–5

Cloning and characterization of a Dictyostelium myosin I heavy chain kinase activated by Cdc42 and Rac. Lee SF, et al. **J Biol Chem** 1996 Oct 25;271(43):27044–8

Uncoupling of membrane ruffling and pinocytosis during Ras signal transduction. Li G, et al. **J Biol Chem** 1997 Apr 18;272(16):10337–40

Src tyrosine kinases, Galpha subunits, and H-Ras share a common membrane-anchored scaffolding protein, caveolin. Caveolin binding negatively regulates the auto-activation of Src tyrosine kinases. Li S, et al. **J Biol Chem** 1996 Nov 15;271(46):29182–90

A novel chloroplastic outer membrane-targeting signal that functions at both termini of passenger polypeptides. Li Hm, et al. **J Biol Chem** 1997 Apr 18;272(16):10968–74

Comparative activity of ADP-ribosylation factor family members in the early steps of coated vesicle formation on rat liver Golgi membranes. Liang JO, et al. **J Biol Chem** 1997 Feb 14;272(7):4141–8

Regulation of dynamin I GTPase activity by G protein betagamma subunits and phosphatidylinositol 4,5-bisphosphate. Lin HC, et al. **J Biol Chem** 1996 Nov 8;271(45):27979–82

Binding of thrombin to the G-protein-linked receptor, and not to glycoprotein Ib, precedes thrombin-mediated platelet activation. Liu L, et al. **J Biol Chem** 1997 Jan 17; 272(3):1997–2004

The Ca2+-dependent binding of calmodulin to an N-terminal motif of the heterotrimeric G protein beta subunit. Liu M, et al. **J Biol Chem** 1997 Jul 25; 272(30):18801–7

The regulation of the cGMP-binding cGMP phosphodiesterase by proteins that are immunologically related to gamma subunit of the photoreceptor cGMP phosphodiesterase. Lochhead A, et al. **J Biol Chem** 1997 Jul 18;272(29):18397–403

Ran-binding protein 1 (RanBP1) forms a ternary complex with Ran and karyopherin beta and reduces Ran GTPase-activating protein (RanGAP) inhibition by karyopherin beta. Lounsbury KM, et al. **J Biol Chem** 1997 Jan 3;272(1):551–5

Gbetagamma subunits mediate Src-dependent phosphorylation of the epidermal growth factor receptor. A scaffold for G protein-coupled receptor-mediated Ras activation. Luttrell LM, et al. **J Biol Chem** 1997 Feb 14; 272(7):4637–44

A betagamma dimer derived from G13 transduces the angiotensin AT1 receptor signal to stimulation of Ca2+ channels in rat portal vein myocytes. Macrez N, et al. **J Biol Chem** 1997 Sep 12;272(37):23180–5

G protein heterotrimer Galpha13beta1gamma3 couples the angiotensin AT1A receptor to increases in cytoplasmic Ca2+ in rat portal vein myocytes. Macrez-Leprêtre N, et al. **J Biol Chem** 1997 Apr 11;272(15):10095–102

Distinct functions of Gq and G11 proteins in coupling alpha1-adrenoreceptors to Ca2+ release and Ca2+ entry in rat portal vein myocytes. Macrez-Leprêtre N, et al. **J Biol Chem** 1997 Feb 21;272(8):5261–8

Lipoxin A4 stable analogs are potent mimetics that stimulate human monocytes and THP-1 cells via a G-protein-linked lipoxin A4 receptor. Maddox JF, et al. **J Biol Chem** 1997 Mar 14;272(11):6972–8

Bcl-2 undergoes phosphorylation by c-Jun N-terminal kinase/stress-activated protein kinases in the presence of the constitutively active GTP-binding protein Rac1. Maundrell K, et al. **J Biol Chem** 1997 Oct 3; 272(40):25238–42

Localization of the effector-specifying regions of Gi2alpha and Gqalpha. Medina R, et al. **J Biol Chem** 1996 Oct 4; 271(40):24720–7

RalGDS functions in Ras- and cAMP-mediated growth stimulation. Miller MJ, et al. **J Biol Chem** 1997 Feb 28; 272(9):5600–5

Cdc42Hs, but not Rac1, inhibits serum-stimulated cell cycle progression at G1/S through a mechanism requiring p38/RK. Molnár A, et al. **J Biol Chem** 1997 May 16; 272(20):13229–35

Rad and Rad-related GTPases interact with calmodulin and calmodulin-dependent protein kinase II. Moyers JS, et al. **J Biol Chem** 1997 May 2;272(18):11832–9

Overexpression of Rad inhibits glucose uptake in cultured muscle and fat cells. Moyers JS, et al. **J Biol Chem** 1996 Sep 20;271(38):23111–6

Rab7 regulates transport from early to late endocytic compartments in Xenopus oocytes. Mukhopadhyay A, et al. **J Biol Chem** 1997 May 16;272(20):13055–9

Characterization of Ral GDP dissociation stimulator-like (RGL) activities to regulate c-fos promoter and the GDP/GTP exchange of Ral. Murai H, et al. **J Biol Chem** 1997 Apr 18;272(16):10483–90

Differential coupling of muscarinic m2 and m3 receptors to adenylyl cyclases V/VI in smooth muscle. Concurrent M2-mediated inhibition via Galphai3 and m3-mediated stimulation via Gbetagammaq. Murthy KS, et al. **J Biol Chem** 1997 Aug 22;272(34):21317–24

Somatostatin receptor-mediated signaling in smooth muscle. Activation of phospholipase C-beta3 by Gbetagamma and inhibition of adenylyl cyclase by Galphai1 and Galphao. Murthy KS, et al. **J Biol Chem** 1996 Sep 20; 271(38):23458–63

Rac binding to p67(phox). Structural basis for interactions of the Rac1 effector region and insert region with components of the respiratory burst oxidase. Nisimoto Y, et al. **J Biol Chem** 1997 Jul 25;272(30):18834–41

Galphai2 and galphai3 are phosphorylated during platelet activation. Offermanns S, et al. **J Biol Chem** 1996 Oct 18; 271(42):26044–8

Guanine nucleotide exchange on heterotrimeric Gi3 protein controls autophagic sequestration in HT-29 cells. Ogier-Denis E, et al. **J Biol Chem** 1996 Nov 8; 271(45):28593–600

Increased activity of small GTP-binding protein-dependent phospholipase D during differentiation in human promyelocytic leukemic HL60 cells. Ohguchi K, et al. **J Biol Chem** 1997 Jan 17;272(3):1990–6

Heterotrimeric G-protein Gq/11 localized on pancreatic zymogen granules is involved in calcium-regulated amylase secretion. Ohnishi H, et al. **J Biol Chem** 1997 Jun 20; 272(25):16056–61

Palmitoylation of human endothelinB. Its critical role in G protein coupling and a differential requirement for the cytoplasmic tail by G protein subtypes. Okamoto Y, et al. **J Biol Chem** 1997 Aug 22;272(34):21589–96

Role of protein-phospholipid interactions in the activation of ARF1 by the guanine nucleotide exchange factor Arno. Paris S, et al. **J Biol Chem** 1997 Aug 29;272(35):22221–6

Ca2+/calmodulin causes Rab3A to dissociate from synaptic membranes. Park JB, et al. **J Biol Chem** 1997 Aug 15; 272(33):20857–65

High levels of the GTPase Ran/TC4 relieve the requirement for nuclear protein transport factor 2. Paschal BM, et al. **J Biol Chem** 1997 Aug 22;272(34):21534–9

Identification of a novel RalGDS-related protein as a candidate effector for Ras and Rap1. Peterson SN, et al. **J Biol Chem** 1996 Nov 22;271(47):29903–8

A receptor-G protein coupling-independent step in the internalization of the thyrotropin-releasing hormone receptor. Petrou C, et al. **J Biol Chem** 1997 Jan 24; 272(4):2326–33

Phosphatidylinositol 4,5-bisphosphate (PIP2)-enhanced G protein-coupled receptor kinase (GRK) activity. Location, structure, and regulation of the PIP2 binding site distinguishes the GRK subfamilies. Pitcher JA, et al. **J Biol Chem** 1996 Oct 4;271(40):24907–13

Tubulin, Gq, and phosphatidylinositol 4,5-bisphosphate interact to regulate phospholipase Cbeta1 signaling. Popova JS, et al. **J Biol Chem** 1997 Mar 7;272(10):6760–5

Regulation of G protein-coupled receptor kinases by calmodulin and localization of the calmodulin binding domain. Pronin AN, et al. **J Biol Chem** 1997 Jul 18; 272(29):18273–80

Regulation of the G protein-coupled receptor kinase GRK5 by protein kinase C. Pronin AN, et al. **J Biol Chem** 1997 Feb 7;272(6):3806–12

Desensitization of inositol 1,4,5-trisphosphate/Ca2+-induced Cl- currents by prolonged activation of G proteins in Xenopus oocytes. Quick MW, et al. **J Biol Chem** 1996 Dec 13;271(50):32021–7

Isolation of a NCK-associated kinase, PRK2, an SH3-binding protein and potential effector of Rho protein signaling. Quilliam LA, et al. **J Biol Chem** 1996 Nov 15; 271(46):28772–6

Functional interaction of ADP-ribosylation factor 1 with phosphatidylinositol 4,5-bisphosphate. Randazzo PA. **J Biol Chem** 1997 Mar 21;272(12):7688–92

Phospholipase C beta2 association with phospholipid interfaces assessed by fluorescence resonance energy transfer. G protein betagamma subunit-mediated translocation is not required for enzyme activation. Romoser V, et al. **J Biol Chem** 1996 Oct 11;271(41):25071–8

Rho is required for Galphaq and alpha1-adrenergic receptor signaling in cardiomyocytes. Dissociation of Ras and Rho pathways. Sah VP, et al. **J Biol Chem** 1996 Dec 6; 271(49):31185–90

A domain for G protein coupling in carboxyl-terminal tail of rat angiotensin II receptor type 1A. Sano T, et al. **J Biol Chem** 1997 Sep 19;272(38):23631–6

A novel GTPase-activating protein for Rho interacts with a PDZ domain of the protein-tyrosine phosphatase PTPL1. Saras J, et al. **J Biol Chem** 1997 Sep 26;272(39):24333–8

Characterization of a G-protein activator in the neuroblastoma-glioma cell hybrid NG108-15. Sato M, et al. **J Biol Chem** 1996 Nov 22;271(47):30052–60

Disruption of microtubules reveals two independent apical targeting mechanisms for G-protein-coupled receptors in polarized renal epithelial cells. Saunders C, et al. **J Biol Chem** 1997 Jul 25;272(30):19035–45

Expression of phosducin in a phosducin-negative cell line reveals functions of a Gbetagamma-binding protein. Schulz K, et al. **J Biol Chem** 1996 Sep 13;271(37):22546–51

Cytosolic and membrane-associated proteins involved in the recruitment of AP-1 adaptors onto the trans-Golgi network. Seaman MNJ, et al. **J Biol Chem** 1996 Oct 11; 271(41):25446–51

Interferon-gamma-dependent nuclear import of Stat1 is mediated by the GTPase activity of Ran/TC4. Sekimoto T, et al. **J Biol Chem** 1996 Dec 6;271(49):31017–20

Clostridium novyi alpha-toxin-catalyzed incorporation of GlcNAc into Rho subfamily proteins. Selzer J, et al. **J Biol Chem** 1996 Oct 11;271(41):25173–7

Insulin stimulates guanine nucleotide exchange on Rab4 via a wortmannin-sensitive signaling pathway in rat adipocytes. Shibata H, et al. **J Biol Chem** 1997 Jun 6; 272(23):14542–6

SMAP, an Smg GDS-associating protein having arm repeats and phosphorylated by Src tyrosine kinase. Shimizu K, et al. **J Biol Chem** 1996 Oct 25;271(43):27013–7

Biochemical effects of retinoic acid on GTP-binding Protein/Transglutaminases in HeLa cells. Stimulation of GTP-binding and transglutaminase activity, membrane association, and phosphatidylinositol lipid turnover. Singh US, et al. **J Biol Chem** 1996 Nov 1;271(44):27292–8

Direct interaction of the Rho GDP dissociation inhibitor with ezrin/radixin/moesin initiates the activation of the Rho small G protein. Takahashi K, et al. **J Biol Chem** 1997 Sep 12;272(37):23371–5

Purification and characterization of Gbetagamma-responsive phosphoinositide 3-kinases from pig platelet cytosol. Tang X, et al. **J Biol Chem** 1997 May 30;272(22):14193–9

The small GTP-binding protein rho activates c-Jun N-terminal kinases/stress-activated protein kinases in human kidney 293T cells. Evidence for a Pak-independent signaling pathway. Teramoto H, et al. **J Biol Chem** 1996 Oct 18;271(42):25731–4

Tyrosine phosphorylation of the vav proto-oncogene product links FcepsilonRI to the Rac1-JNK pathway. Teramoto H, et al. **J Biol Chem** 1997 Apr 18; 272(16):10751–5

Signaling from the small GTP-binding proteins Rac1 and Cdc42 to the c-Jun N-terminal kinase/stress-activated protein kinase pathway. A role for mixed lineage kinase 3/protein-tyrosine kinase 1, a novel member of the mixed lineage kinase family. Teramoto H, et al. **J Biol Chem** 1996 Nov 1;271(44):27225–8

Rab2 is essential for the maturation of pre-Golgi intermediates. Tisdale EJ, et al. **J Biol Chem** 1996 Nov 15;271(46):29372–9

Betagamma subunits of pertussis toxin-sensitive G proteins

mediate A1 adenosine receptor agonist-induced activation of phospholipase C in collaboration with thyrotropin. A novel stimulatory mechanism through the cross-talk of two types of receptors. Tomura H, et al. **J Biol Chem** 1997 Sep 12;272(37):23130-7

The thrombin receptor second cytoplasmic loop confers coupling to Gq-like G proteins in chimeric receptors. Additional evidence for a common transmembrane signaling and G protein coupling mechanism in G protein-coupled receptors. Verrall S, et al. **J Biol Chem** 1997 Mar 14;272(11):6898-902

Activation of Na+-H+ exchange is necessary for RhoA-induced stress fiber formation. Vexler ZS, et al. **J Biol Chem** 1996 Sep 13;271(37):22281-4

Interaction of the GTP-binding and GTPase-activating domains of ARD1 involves the effector region of the ADP-ribosylation factor domain. Vitale N, et al. **J Biol Chem** 1997 Feb 14;272(7):3897-904

Characterization of a GDP dissociation inhibitory region of ADP-ribosylation factor domain protein ARD1. Vitale N, et al. **J Biol Chem** 1997 Oct 3;272(40):25077-82

Role of the small GTPase Rab7 in the late endocytic pathway. Vitelli R, et al. **J Biol Chem** 1997 Feb 14; 272(7):4391-7

Isolation and characterization of a GDP/GTP exchange protein specific for the Rab3 subfamily small G proteins. Wada M, et al. **J Biol Chem** 1997 Feb 14;272(7):3875-8

A GTPase-activating protein for the G protein Galphaz. Identification, purification, and mechanism of action. Wang J, et al. **J Biol Chem** 1997 Feb 28;272(9):5732-40

Gbeta subunit interacts with a peptide encoding region 956-982 of adenylyl cyclase 2. Cross-linking of the peptide to free Gbetagamma but not the heterotrimer. Weng G, et al. **J Biol Chem** 1996 Oct 25;271(43):26445-8

The retinal specific protein RGS-r competes with the gamma subunit of cGMP phosphodiesterase for the alpha subunit of transducin and facilitates signal termination. Wieland T, et al. **J Biol Chem** 1997 Apr 4;272(14):8853-6

Pasteurella multocida toxin activates the inositol triphosphate signaling pathway in Xenopus oocytes via G(q)alpha-coupled phospholipase C-beta1. Wilson BA, et al. **J Biol Chem** 1997 Jan 10;272(2):1268-75

Rescue of functional interactions between the alpha2A-adrenoreceptor and acylation-resistant forms of Gi1alpha by expressing the proteins from chimeric open reading frames. Wise A, et al. **J Biol Chem** 1997 Sep 26; 272(39):24673-8

Activation of myosin-I by members of the Ste20p protein kinase family. Wu C, et al. **J Biol Chem** 1996 Dec 13; 271(50):31787-90

The tuberous sclerosis 2 gene product, tuberin, functions as a Rab5 GTPase activating protein (GAP) in modulating endocytosis. Xiao GH, et al. **J Biol Chem** 1997 Mar 7; 272(10):6097-100

Two basic amino acids in the second inner loop of the interleukin-8 receptor are essential for Galpha16 coupling. Xie W, et al. **J Biol Chem** 1997 Oct 3;272(40):24948-51

Possible involvement of heterotrimeric G proteins in the organization of the Golgi apparatus. Yamaguchi T, et al. **J Biol Chem** 1997 Oct 3;272(40):25260-6

C-terminal mutation of G protein beta subunit affects differentially extracellular signal-regulated kinase and c-Jun N-terminal kinase pathways in human embryonal kidney 293 cells. Yamauchi J, et al. **J Biol Chem** 1997 Mar 21;272(12):7602-7

RGS4 inhibits Gq-mediated activation of mitogen-activated protein kinase and phosphoinositide synthesis. Yan Y, et al. **J Biol Chem** 1997 May 2;272(18):11924-7

Cloning and characterization of a novel Cdc42-associated tyrosine kinase, ACK-2, from bovine brain. Yang W, et al. **J Biol Chem** 1997 Oct 3;272(40):24819-24

Characterization of a Goalpha mutant that binds xanthine nucleotides. Yu B, et al. **J Biol Chem** 1997 Jul 18; 272(29):18015-9

The bioactive phospholipid, lysophosphatidylcholine, induces cellular effects via G-protein-dependent activation of adenylyl cyclase. Yuan Y, et al. **J Biol Chem** 1996 Oct 25;271(43):27090-8

RhoGDI-3 is a new GDP dissociation inhibitor (GDI). Identification of a non-cytosolic GDI protein interacting with the small GTP-binding proteins RhoB and RhoG. Zalcman G, et al. **J Biol Chem** 1996 Nov 29; 271(48):30366-74

Characterization of the interactions between the small GTPase Cdc42 and its GTPase-activating proteins and putative effectors. Comparison of kinetic properties of Cdc42 binding to the Cdc42-interactive domains. Zhang B, et al. **J Biol Chem** 1997 Aug 29;272(35):21999-2007

Selective activation of effector pathways by brain-specific G protein beta5. Zhang S, et al. **J Biol Chem** 1996 Dec 27;271(52):33575-9

The faciogenital dysplasia gene product FGD1 functions as a Cdc42Hs-specific guanine-nucleotide exchange factor. Zheng Y, et al. **J Biol Chem** 1996 Dec 27;271(52):33169-72

Phosphatidylinositol 4,5-bisphosphate provides an alternative to guanine nucleotide exchange factors by stimulating the dissociation of GDP from Cdc42Hs. Zheng Y, et al. **J Biol Chem** 1996 Sep 27;271(39):23815-9

Protein kinase C alters the responsiveness of adenylyl cyclases to G protein alpha and betagamma subunits. Zimmermann G, et al. **J Biol Chem** 1996 Oct 25; 271(43):27161-6

Mutations in the nuclear export signal of human ran-binding protein RanBP1 block the Rev-mediated posttranscriptional regulation of human immunodeficiency virus type 1. Zolotukhin AS, et al. **J Biol Chem** 1997 Apr 25;272(17):11356-60

Guanine nucleotide binding-protein coupled signaling pathway regulation of osteoblast-mediated bone formation [editorial] Quarles LD, et al. **J Bone Miner Res** 1996 Oct; 11(10):1375-83 (118 ref.)

Expression of adenylyl cyclase and G-protein beta subunit in end-stage human heart failure. Holmer SR, et al. **J Card Fail** 1996 Dec;2(4):279-83

Comparison of the subcellular distribution of G-proteins in hepatocytes in situ and in primary cultures. Cadrin M, et al. **J Cell Biochem** 1996 Sep 1;62(3):334-41

Effect of activating and inactivating mutations of Gs- and Gi2-alpha protein subunits on growth and differentiation of 3T3-L1 preadipocytes. Gordeladze JO, et al. **J Cell Biochem** 1997 Feb;64(2):242-57

Phosphorylation of the G protein alpha-subunit, G alpha 2, of Dictyostelium discoideum requires a functional and activated G alpha 2. Gundersen RE. **J Cell Biochem** 1997 Aug 1;66(2):268-76

Multiple G-protein involvement in parathyroid hormone regulation of acid production by osteoclasts. May LG, et al. **J Cell Biochem** 1997 Jan;64(1):161-70

Effect of transient overexpression of Gq alpha on soluble and polymerized tubulin pools in GH3 and AtT-20 cells. Ravindra R, et al. **J Cell Biochem** 1996 Jun 1;61(3):392-401

RanBP1 stabilizes the interaction of Ran with p97 nuclear protein import. Chi NC, et al. **J Cell Biol** 1996 Nov; 135(3):559-69

ADP ribosylation factor 1 is required for synaptic vesicle budding in PC12 cells. Faúndez V, et al. **J Cell Biol** 1997 Aug 11;138(3):505-15

Translocation of Src kinase to the cell periphery is mediated by the actin cytoskeleton under the control of the Rho family of small G proteins. Fincham VJ, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1551-64

Identification of a novel, putative Rho-specific GDP/GTP exchange factor and a RhoA-binding protein: control of neuronal morphology. Gebbink MF, et al. **J Cell Biol** 1997 Jun 30;137(7):1603-13

Docking of yeast vacuoles is catalyzed by the Ras-like GTPase Ypt7p after symmetric priming by Sec18p (NSF). Mayer A, et al. **J Cell Biol** 1997 Jan 27;136(2):307-17

The production of post-Golgi vesicles requires a protein kinase C-like molecule, but not its phosphorylating activity. Simon JP, et al. **J Cell Biol** 1996 Oct;135(2):355-70

Switches, latches, and amplifiers: common themes of G proteins and molecular motors. Vale RD. **J Cell Biol** 1996 Oct;135(2):291-302 (92 ref.)

The role of ADP-ribosylation factor and phospholipase D in adaptor recruitment. West MA, et al. **J Cell Biol** 1997 Sep 22;138(6):1239-54

Pertussis toxin-insensitive effects of mastoparan, a wasp venom peptide, in PC12 cells. Murayama T, et al. **J Cell Physiol** 1996 Dec;169(3):448-54

Rho, Rac and Cdc42 regulate actin organization and cell adhesion in macrophages. Allen WE, et al. **J Cell Sci** 1997 Mar;110 (Pt 6):707-20

Cytokinesis arrest and redistribution of actin-cytoskeleton regulatory components in cells expressing the Rho GTPase CDC42Hs. Dutartre H, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):367-77

Evidence for a functional link between Rab3 and the SNARE complex. Johannes L, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2875-84

The mammalian ARF-like protein 1 (Arl1) is associated with the Golgi complex. Lowe SL, et al. **J Cell Sci** 1996 Jan; 109 (Pt 1):209-20

Localization of G alpha 0 to growth cones in PC12 cells: role of G alpha 0 association with receptors and G beta gamma. Nüsse O, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):221-8

Association of the gamma12 subunit of G proteins with actin filaments. Ueda H, et al. **J Cell Sci** 1997 Jul;110 (Pt 13):1503-11

Multiple G proteins and phospholipase C isoforms in human myometrial cells: implication for oxytocin action. Phaneuf S, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2098-103

Ethanol-induced retention of nascent proteins in rat hepatocytes is accompanied by altered distribution of the small GTP-binding protein rab2. Larkin JM, et al. **J Clin Invest** 1996 Nov 1;98(9):2146-57

Rho proteins play a critical role in cell migration during the early phase of mucosal restitution. Santos MF, et al. **J Clin Invest** 1997 Jul 1;100(1):216-25

Hidden Markov Models of the G-protein-coupled receptor family. Baldi P, et al. **J Comput Biol** 1994 Winter; 1(4):311-36

Disturbed interaction of p21-rac with mutated p67-phox causes chronic granulomatous disease. Leusen JH, et al. **J Exp Med** 1996 Oct 1;184(4):1243-9

A recombinant inwardly rectifying potassium channel coupled to GTP-binding proteins. Chan KW, et al. **J Gen Physiol** 1996 Mar;107(3):381-97

Effector contributions to G beta gamma-mediated signaling as revealed by muscarinic potassium channel gating. Ivanova-Nikolova TT, et al. **J Gen Physiol** 1997 Feb; 109(2):245-53

Positive and negative coupling of the metabotropic glutamate receptors to a G protein-activated K+ channel, GIRK, in Xenopus oocytes. Sharon D, et al. **J Gen Physiol** 1997 Apr;109(4):477-90

Effects of aging and food restriction on alpha 1-adrenergic receptors and G-protein in the rat parotid gland. Chen C, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):B103-10

Adrenomedullin receptor expression in human lung and in pulmonary tumors. Martínez A, et al. **J Histochem Cytochem** 1997 Feb;45(2):159-64

Defective Rho GTPase regulation by IL-1 beta-converting enzyme-mediated cleavage of D4 GDP dissociation inhibitor. Danley DE, et al. **J Immunol** 1996 Jul 15; 157(2):500-3

Effects of acid phospholipids on ARF activities: potential roles in membrane traffic. Kahn RA, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):209-14 (22 ref.)

Alkyl-substituted amino acid amides and analogous di- and triamines: new non-peptide G protein activators. Leschke C, et al. **J Med Chem** 1997 Sep 12;40(19):3130-9

Activation of inwardly rectifying potassium channels by muscarinic receptor-linked G protein in isolated human ventricular myocytes. Koumi S, et al. **J Membr Biol** 1997 May 1;157(1):71-81

An alpha-carbon template for the transmembrane helices in the rhodopsin family of G-protein-coupled receptors. Baldwin JM, et al. **J Mol Biol** 1997 Sep 12;272(1):144-64

Differential localization and development-dependent expression of G-protein subunits, Go alpha and G beta, in rabbit heart. Kawai Y, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1555-64

Expression in human endothelial cells of ADP-ribosylation factors, 20-kDa guanine nucleotide-binding proteins involved in the initiation of vesicular transport. Lee CM, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1911-20

Peptides derived from cardiovascular G-protein-coupled receptors induce morphological cardiomyopathic changes in immunized rabbits. Matsui S, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):641-55

Localisation of cardiac GS alpha in transgenic mice overexpressing GS alpha. Muntz KH, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1649-53

Identification and characterization of G protein-regulated phospholipase C in human myocardium. Schnabel P, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2419-27

Ontogeny of regulatory mechanisms for beta-adrenoceptor control of rat cardiac adenylyl cyclase: targeting of G-proteins and the cyclase catalytic subunit. Zeiders JL, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):603-15

G-proteins and insulin signaling [comment] Luft FC. **J Mol Med** 1997 Apr;75(4):233-5. Comment on: J Mol Med 1997 Apr;75(4):283-9.

Neurotransmitter-mediated regulation of brain aromatase: protein kinase C- and G-dependent induction. Abe-Dohmae S, et al. **J Neurochem** 1996 Nov; 67(5):2087-95

Cholera toxin induces cyclic AMP-independent down-regulation of Gs alpha and sensitization of alpha 2-autoreceptors in chick sympathetic neurons. Boehm S, et al. **J Neurochem** 1996 Mar;66(3):1019-26

Acute and chronic effects of opioids on delta and mu receptor activation of G proteins in NG108-15 and SK-N-SH cell membranes. Breivogel CS, et al. **J Neurochem** 1997 Apr; 68(4):1462-72

Importance of the Rab3a-GTP binding domain for the intracellular stability and function of Rabphilin3a in secretion. Chung SH, et al. **J Neurochem** 1997 Jul; 69(1):164-73

Radiolabeled ligands specific for the G protein-coupled state of neurotensin receptors. Gaudriault G, et al. **J Neurochem** 1996 Dec;67(6):2590-8

Functional role of amino-terminal serine16 and serine27 of G alphaZ in receptor and effector coupling. Ho MK, et al. **J Neurochem** 1997 Jun;68(6):2514-22

Guanine nucleotide regulatory proteins, Gq and Gi1/2, mediate platelet-activating factor-stimulated phosphoinositide metabolism in immortalized hippocampal cells. Shi LC, et al. **J Neurochem** 1996 Oct;67(4):1478-84

A novel regulation of expression of the alpha-subunit of the G stimulatory protein by dopamine via D1 dopamine receptors. Sidhu A, et al. **J Neurochem** 1997 Jan; 68(1):187-94

Cloning, characterization, and expression of a G-protein-coupled receptor from Lymnaea stagnalis and identification of a leucokinin-like peptide, PSFHSWSamide, as its endogenous ligand. Cox KJ, et al. **J Neurosci** 1997 Feb 15;17(4):1197-205

Rac1 mediates collapsin-1-induced growth cone collapse. Jin Z, et al. **J Neurosci** 1997 Aug 15;17(16):6256-63

High intracellular Cl- concentrations depress G-protein-modulated ionic conductances. Lenz RA, et al. **J Neurosci** 1997 Aug 15;17(16):6133-41

Differential expression of distinct members of Rho family GTP-binding proteins during neuronal development: identification of Rac1B, a new neural-specific member of the family. Malosio ML, et al. **J Neurosci** 1997 Sep 1; 17(17):6717-28

Metabotropic glutamate receptors activate G-protein-coupled inwardly rectifying potassium channels in Xenopus oocytes. Saugstad JA, et al. **J Neurosci** 1996 Oct 1;16(19):5979-85

The monomeric G-proteins Rac1 and/or Cdc42 are required for the inhibition of voltage-dependent calcium current

by bradykinin. Wilk-Blaszczak MA, et al. **J Neurosci** 1997 Jun 1;17(11):4094-100

Nitric oxide and G proteins mediate the response of bovine articular chondrocytes to fluid-induced shear. Das P, et al. **J Orthop Res** 1997 Jan;15(1):87-93

Myocardial G proteins in murine Chagas' disease. Huang H, et al. **J Parasitol** 1997 Aug;83(4):663-70

Computer modelling of G protein-coupled receptors: promises and drawbacks. Maigret B. **J Pharm Belg** 1997 Mar-Apr;52(2):102

Regional differences in cannabinoid receptor/G-protein coupling in rat brain. Breivogel CS, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1632-42

Opioids binding mu and delta receptors exhibit diverse efficacy in the activation of Gi2 and G(x/z) transducer proteins in mouse periaqueductal gray matter. Garzón J, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):549-57

The human thromboxane A2 receptor alpha isoform (TP alpha) functionally couples to the G proteins Gq and G11 in vivo and is activated by the isoprostane 8-epi prostaglandin F2 alpha. Kinsella BT, et al. **J Pharmacol Exp Ther** 1997 May;281(2):957-64

Changes in the association of G protein subunits with the cloned mouse delta opioid receptor on agonist stimulation. Law SF, et al. **J Pharmacol Exp Ther** 1997 Jun; 281(3):1476-86

Kinetic model for phototransduction and G-protein enzyme cascade: understanding quantal bumps during inhibition of CaM-KII or PP2B. Kass L, et al. **J Photochem Photobiol B** 1996 Aug;35(1-2):105-13

Bursts of action potential waveforms relieve G-protein inhibition of recombinant P/Q-type Ca2+ channels in HEK 293 cells. Brody DL, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):637-44

G-protein-mediated desensitization of metabotropic glutamatergic and muscarinic responses in CA3 cells in rat hippocampus. Guérineau NC, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):487-96

Signal transduction by G proteins: 1994 edition. Birnbaumer L, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1-4):213-52 (117 ref.)

Mutations and diseases of G protein coupled receptors. Birnbaumer M. **J Recept Signal Transduct Res** 1995 Jan-Mar;15(1-4):131-60 (74 ref.)

Expression of human M2 muscarinic receptors in Sf9 cells: characterisation and reconstitution with G-proteins. Heitz F, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1-4):55-70

High-level expression of G protein-coupled receptors with the aid of the Semliki Forest virus expression system. Lundstrom K, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar;15(1-4):23-32

Biochemical approaches to examine the specificity of interactions between receptors and guanine nuclotide binding proteins. Milligan G, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1-4):253-65 (35 ref.)

Identification of neuronal calcium sensor (NCS-1) possibly involved in the regulation of receptor phosphorylation. Nef S, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1-4):365-78

Factors to consider in the naming of a G protein-coupled receptor subtype. Watson SP. **J Recept Signal Transduct Res** 1995 Jan-Mar;15(1-4):5-17, discussion 19-21 (14 ref.)

Seven helix receptors are enzymes catalysing G protein activation. What is the agonist Kact? Waelbroeck M, et al. **J Theor Biol** 1997 Jul 7;187(1):15-37

Functional uncoupling between the receptor and G-protein as the result of PKC activation, observed in Aplysia neurons. Sasaki K, et al. **Jpn J Physiol** 1997 Jun;47(3):241-9

Genetically fixed enhanced G protein activation in essential hypertension. Siffert W. **Kidney Blood Press Res** 1996; 19(3-4):172-3 (16 ref.)

An examination of the relationship between mu-opioid antinociceptive efficacy and G-protein coupling using pertussis and cholera toxins. Goode TL, et al. **Life Sci** 1997; 60(7):PL107-13

Inhibitory guanine nucleotide regulatory protein alpha-subunits in brain of spontaneously hypertensive rats. Ichida T, et al. **Life Sci** 1996;59(25-26):2167-71

Expression of G proteins in human placentas from pregnancies complicated by gestational hypertension. Petit A, et al. **Life Sci** 1997;60(12):953-60

Interaction of D2-dopamine receptor with two pertussis toxin sensitive G proteins in human placenta. Vaillancourt C, et al. **Life Sci** 1997;60(16):1365-75

Nitric oxide donor SIN-1 mediated down-regulation of the G-protein alpha-subunit in C6 glioma cells. Young LT, et al. **Life Sci** 1997;60(15):1279-85

Mapping of the novel G protein-coupled receptor Gpr18 to distal mouse chromosome 14. Samuelson LC, et al. **Mamm Genome** 1996 Dec;7(12):920-1

beta-Amyloid-induced IL-1 beta release from an activated human monocyte cell line is calcium- and G-protein-dependent. Lorton D. **Mech Ageing Dev** 1997 Mar;94(1-3):199-211

Effects of alpha 2-adrenergic agonism, imidazolines, and G-protein on insulin secretion in beta cells. Hirose H, et al. **Metabolism** 1997 Oct;46(10):1146-9

Use of antisense-generating plasmids to probe the function of signal transduction proteins in primary neurons. Abogadie FC, et al. **Methods Mol Biol** 1997;83:217-25 (7 ref.)

Use of random-saturation mutagenesis to study receptor-G protein coupling. Burstein ES, et al. **Methods Mol Biol** 1997;83:143-57 (18 ref.)

Detection of heterologous Gs-coupled receptor activity in LLC-PK1 cells based on expression of urokinase-type plasminogen activator. Catanzariti L, et al. **Methods Mol Biol** 1997;63:219-25

Nuclear application of antisense oligonucleotides by microinjection and ballistomagnetic transfer to identify G protein heterotrimers activating phospholipase C. Kalkbrenner F, et al. **Methods Mol Biol** 1997;83:203-16 (16 ref.)

Agonist-induced high-affinity GTP hydrolysis as an index of receptor-mediated G protein activation in mammalian brain membranes. Odagaki Y, et al. **Methods Mol Biol** 1997; 83:133-41 (15 ref.)

Autoradiographic visualization in brain of receptor-G protein coupling using [35S]GTP gamma S binding. Sim LJ, et al. **Methods Mol Biol** 1997;83:117-32 (40 ref.)

Protocols employed in the investigation of G protein-coupled receptor phosphorylation. Tobin AB. **Methods Mol Biol** 1997;83:227-34

Approaches to the stable transfection of G protein-coupled receptors. Townsend-Nicholson A. **Methods Mol Biol** 1997;83:45-54 (7 ref.)

How does FtsZ find its location? Voskuil JL, et al. **Microb Drug Resist** 1996 Spring;2(1):55-61

N-myristoylation of Arf proteins in Candida albicans: an in vivo assay for evaluating antifungal inhibitors of myristoyl-CoA: protein N-myristoyltransferase. Lodge JK, et al. **Microbiology** 1997 Feb;143 (Pt 2):357-66

Amino- and carboxy-terminal domains of the yeast Rab escort protein are both required for binding of Ypt small G proteins. Bauer BE, et al. **Mol Biol Cell** 1996 Oct; 7(10):1521-33

Down-regulation of G-protein-mediated Ca2+ sensitization in smooth muscle. Gong MC, et al. **Mol Biol Cell** 1997 Feb;8(2):279-86

Yeast actin cytoskeleton mutants accumulate a new class of Golgi-derived secretary vesicle. Mulholland J, et al. **Mol Biol Cell** 1997 Aug;8(8):1481-99

The small GTP-binding proteins, Rac and Rho, regulate cytoskeletal organization and exocytosis in mast cells by parallel pathways. Norman JC, et al. **Mol Biol Cell** 1996 Sep;7(9):1429-42

Purification and identification of FOAD-II, a cytosolic protein that regulates secretion in streptolysin-O permeabilized mast cells, as a rac/rhoGDI complex. O'Sullivan AJ, et al. **Mol Biol Cell** 1996 Mar;7(3):397-408

Coupling of the thrombin receptor to G12 may account for selective effects of thrombin on gene expression and DNA synthesis in 1321N1 astrocytoma cells. Post GR, et al. **Mol Biol Cell** 1996 Nov;7(11):1679-90

Physical association of the small GTPase Rho with a 68-kDa phosphatidylinositol 4-phosphate 5-kinase in Swiss 3T3 cells. Ren XD, et al. **Mol Biol Cell** 1996 Mar;7(3):435-42

Reversal of defective G-proteins and adenylyl cyclase/cAMP signal transduction in diabetic rats by vanadyl sulphate therapy. Anand-Srivastava MB, et al. **Mol Cell Biochem** 1995 Dec 6-20;153(1-2):113-9

Identification of Ste4 as a potential regulator of Byr2 in the sexual response pathway of Schizosaccharomyces pombe. Barr MM, et al. **Mol Cell Biol** 1996 Oct;16(10):5597-603

Potential role of Rab4 in the regulation of subcellular localization of Glut4 in adipocytes. Cormont M, et al. **Mol Cell Biol** 1996 Dec;16(12):6879-86

Ran-binding protein 5 (RanBP5) is related to the nuclear transport factor importin-beta but interacts differently with RanBP1. Deane R, et al. **Mol Cell Biol** 1997 Sep; 17(9):5087-96

Lck regulates Vav activation of members of the Rho family of GTPases. Han J, et al. **Mol Cell Biol** 1997 Mar; 17(3):1346-53

Analysis of the receptor binding domain of Gpa1p, the G(alpha) subunit involved in the yeast pheromone response pathway. Kallal L, et al. **Mol Cell Biol** 1997 May; 17(5):2897-907

The p160 RhoA-binding kinase ROK alpha is a member of a kinase family and is involved in the reorganization of the cytoskeleton. Leung T, et al. **Mol Cell Biol** 1996 Oct; 16(10):5313-27

Perturbations in the spi1p GTPase cycle of Schizosaccharomyces pombe through its GTPase-activating protein and guanine nucleotide exchange factor components result in similar phenotypic consequences. Matynia A, et al. **Mol Cell Biol** 1996 Nov; 16(11):6352-62

Yrb2p, a Nup2p-related yeast protein, has a functional overlap with Rna1p, a yeast Ran-GTPase-activating protein. Noguchi E, et al. **Mol Cell Biol** 1997 Apr; 17(4):2235-46

Cdc42 regulates anchorage-independent growth and is necessary for Ras transformation. Qiu RG, et al. **Mol Cell Biol** 1997 Jun;17(6):3449-58

The mating-specific G(alpha) protein of Saccharomyces cerevisiae downregulates the mating signal by a mechanism that is dependent on pheromone and independent of G(beta)(gamma) sequestration. Stratton HF, et al. **Mol Cell Biol** 1996 Nov;16(11):6325-37

The PRK2 kinase is a potential effector target of both Rho and Rac GTPases and regulates actin cytoskeletal organization. Vincent S, et al. **Mol Cell Biol** 1997 Apr; 17(4):2247-56

Interaction between the small GTPase Ran/Gsp1p and Ntf2p is required for nuclear transport. Wong DH, et al. **Mol Cell Biol** 1997 Jul;17(7):3755-67

Rheb interacts with Raf-1 kinase and may function to integrate growth factor- and protein kinase A-dependent signals. Yee WM, et al. **Mol Cell Biol** 1997 Feb;17(2):921-33

Multiple G-protein coupling of the dog thyrotropin receptor. Allgeier A, et al. **Mol Cell Endocrinol** 1997 Mar 14; 127(1):81-90

Expression and regulation of G alpha q and G alpha 11 mRNAs and proteins in bovine adrenal cells. Derrien A, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):65-74

Induction of promiscuous G protein coupling of the follicle-stimulating hormone (FSH) receptor: a novel mechanism for transducing pleiotropic actions of FSH isoforms. Arey BJ, et al. **Mol Endocrinol** 1997 May; 11(5):517-26

Coupling specificity between somatostatin receptor sst2A and G proteins: isolation of the receptor-G protein complex with a receptor antibody. Gu YZ, et al. **Mol Endocrinol** 1997 May;11(5):527-37

G proteins of the Gq family couple the H2 histamine receptor to phospholipase C. Kühn B, et al. **Mol Endocrinol** 1996 Dec;10(12):1697-707

Scanning of the glucagon-like peptide-1 receptor localizes G protein-activating determinants primarily to the N terminus of the third intracellular loop. Mathi SK, et al. **Mol Endocrinol** 1997 Apr;11(4):424-32

Mutations to forskolin resistance result in loss of adrenocorticotropin receptors and consequent reductions in levels of G protein alpha-subunits. Qiu R, et al. **Mol Endocrinol** 1996 Dec;10(12):1708-18

Luteinizing hormone/choriogonadotropin-dependent, cholera toxin-catalyzed adenosine 5'-diphosphate (ADP)-ribosylation of the long and short forms of Gs alpha and pertussis toxin-catalyzed ADP-ribosylation of Gi alpha*. Rajagopalan-Gupta RM, et al. **Mol Endocrinol** 1997 May;11(5):538-49

Regulation of G(q/11)alpha by the gonadotropin-releasing hormone receptor. Stanislaus D, et al. **Mol Endocrinol** 1997 Jun;11(6):738-46

Immune responses in mice deficient in Ly-GDI, a lymphoid-specific regulator of Rho GTPases. Yin L, et al. **Mol Immunol** 1997 Apr;34(6):481-91

Internal trafficking and surface mobility of a functionally intact beta2-adrenergic receptor-green fluorescent protein conjugate. Barak LS, et al. **Mol Pharmacol** 1997 Feb; 51(2):177-84

Pharmacology of muscarinic receptor subtypes constitutively activated by G proteins. Burstein ES, et al. **Mol Pharmacol** 1997 Feb;51(2):312-9

Reconstitution of recombinant bovine A1 adenosine receptors in Sf9 cell membranes with recombinant G proteins of defined composition. Figler RA, et al. **Mol Pharmacol** 1996 Dec;50(6):1587-95

Coupling of metabotropic glutamate receptors 2 and 4 to G alpha 15, G alpha 16, and chimeric G alpha q/i proteins: characterization of new antagonists. Gomeza J, et al. **Mol Pharmacol** 1996 Oct;50(4):923-30

Membrane-delimited G protein-mediated coupling between V1a vasopressin receptor and dihydropyridine binding sites in rat glomerulosa cells. Grazzini E, et al. **Mol Pharmacol** 1996 Nov;50(5):1273-83

The stability of the agonist beta2-adrenergic receptor-Gs complex: evidence for agonist-specific states. Krumins AM, et al. **Mol Pharmacol** 1997 Jul;52(1):144-54

Modulation of G protein-coupled receptors by an estrogen receptor that activates protein kinase A. Lagrange AH, et al. **Mol Pharmacol** 1997 Apr;51(4):605-12

Constitutive activation of a phosphoinositidase C-linked G protein in murine fibroblasts decreases agonist-stimulated Ca2+ mobilization. Lobaugh LA, et al. **Mol Pharmacol** 1996 Sep;50(3):493-500

Effects of volatile anesthetics on the G protein-regulated muscarinic potassium channel. Magyar J, et al. **Mol Pharmacol** 1996 Dec;50(6):1520-8

Identification of the critical domains of the delta-opioid receptor involved in G protein coupling using site-specific synthetic peptides. Merkouris M, et al. **Mol Pharmacol** 1996 Oct;50(4):985-93

Two Gs-coupled prostaglandin E receptor subtypes, EP2 and EP4, differ in desensitization and sensitivity to the metabolic inactivation of the agonist. Nishigaki N, et al. **Mol Pharmacol** 1996 Oct;50(4):1031-7

Agonist-induced functional desensitization of the mu-opioid receptor is mediated by loss of membrane receptors rather than uncoupling from G protein. Pak Y, et al. **Mol Pharmacol** 1996 Nov;50(5):1214-22

Synthesis and effect of nonhydrolyzable xanthosine triphosphate derivatives on prenylation of Rab5D136N. Yanachkov I, et al. **Mol Pharmacol** 1997 Jan;51(1):47-51

Inhibition by toxin B of inositol phosphate formation induced by G protein-coupled and tyrosine kinase receptors in N1E-115 neuroblastoma cells: involvement of Rho proteins. Zhang C, et al. **Mol Pharmacol** 1996 Oct; 50(4):864-9

The crystal structure of human rac1, a member of the rho-family complexed with a GTP analogue. Hirshberg M, et al. **Nat Struct Biol** 1997 Feb;4(2):147-52

Human herpesvirus KSHV encodes a constitutively active G-protein-coupled receptor linked to cell proliferation [see comments] Arvanitakis L, et al. **Nature** 1997 Jan 23; 385(6614):347-50. Comment in: Nature 1997 Jan 23;385(6614):296-7, 299.

Direct stimulation of Bruton's tyrosine kinase by G(q)-protein alpha-subunit. Bence K, et al. **Nature** 1997 Sep 18;389(6648):296-9

Regulation of serotonin-2C receptor G-protein coupling by RNA editing [see comments] Burns CM, et al. **Nature** 1997 May 15;387(6630):303-8. Comment in: Nature 1997 May 15;387(6630):242-3.

Direct binding of G-protein betagamma complex to voltage-dependent calcium channels [see comments] De Waard M, et al. **Nature** 1997 Jan 30;385(6615):446-50. Comment in: Nature 1997 Jan 30;385(6615):394-5, 397.

A role for Pyk2 and Src in linking G-protein-coupled receptors with MAP kinase activation. Dikic I, et al. **Nature** 1996 Oct 10;383(6600):547-50

Toxin-induced activation of the G protein p21 Rho by deamidation of glutamine. Flatau G, et al. **Nature** 1997 Jun 12;387(6634):729-33

C-terminal binding domain of Rho GDP-dissociation inhibitor directs N-terminal inhibitory peptide to GTPases. Gosser YQ, et al. **Nature** 1997 Jun 19;387(6635):814-9

Phosphorylation-dependent activation of the Ras-GRF/CDC25Mm exchange factor by muscarinic receptors and G-protein beta gamma subunits. Mattingly RR, et al. **Nature** 1996 Jul 18;382(6588):268-72

Pirated genes in Kaposi's sarcoma [news; comment] Murphy PM. **Nature** 1997 Jan 23;385(6614):296-7, 299. Comment on: Nature 1997 Jan 23;385(6614):347-50.

Nucleotide exchange on ARF mediated by yeast Gea1 protein. Peyroche A, et al. **Nature** 1996 Dec 5; 384(6608):479-81

Gln 63 of Rho is deamidated by Escherichia coli cytotoxic necrotizing factor-1. Schmidt G, et al. **Nature** 1997 Jun 12;387(6634):725-9

Cleavage of syntaxin prevents G-protein regulation of presynaptic calcium channels. Stanley EF, et al. **Nature** 1997 Jan 23;385(6614):340-3

A multivalent PDZ-domain protein assembles signalling complexes in a G-protein-coupled cascade. Tsunoda S, et al. **Nature** 1997 Jul 17;388(6639):243-9

AMPA receptor-mediated regulation of a Gi-protein in cortical neurons. Wang Y, et al. **Nature** 1997 Oct 2; 389(6650):502-4

Rim is a putative Rab3 effector in regulating synaptic-vesicle fusion. Wang Y, et al. **Nature** 1997 Aug 7;388(6642):593-8

A G-protein-coupled receptor for leukotriene B4 that mediates chemotaxis. Yokomizo T, et al. **Nature** 1997 Jun 5;387(6633):620-4

Crosstalk between G proteins and protein kinase C mediated by the calcium channel alpha1 subunit [see comments] Zamponi GW, et al. **Nature** 1997 Jan 30;385(6615):442-6 . Comment in: Nature 1997 Jan 30;385(6615):394-5, 397.

G proteins endogenously expressed in Sf 9 cells: interactions with mammalian histamine receptors. Leopoldt D, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):216-24

Calcium signalling by G protein-coupled sphingolipid receptors in bovine aortic endothelial cells. Meyer zu Heringdrof D, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):397-403

Changes of GTP binding proteins, not neurofilament-associated proteins, in the brain of the neurofilament-deficient quail, "Quiver". Hasegawa H, et al. **Neurochem Int** 1996 Feb;28(2):221-29

Modes of peptide binding in G protein-coupled receptors. Berthold M, et al. **Neurochem Res** 1997 Aug;22(8):1023-31 (57 ref.)

Effect of thyroid deficiency on Go alpha-subunit isoforms in developing rat cerebral cortex. Li PP, et al. **Neurochem Res** 1995 Oct;20(10):1249-55

Functional analysis of cloned opioid receptors in transfected cell lines. Piros ET, et al. **Neurochem Res** 1996 Nov; 21(11):1277-85 (86 ref.)

Modulation of GABAA receptor function by G protein-coupled 5-HT2C receptors. Huidobro-Toro JP, et al. **Neuropharmacology** 1996;35(9-10):1355-63

Chronic treatment with antipsychotic drugs does not alter G protein alpha or beta subunit levels in rat brain. Meller E, et al. **Neuropharmacology** 1996;35(12):1785-91

Agonist and inverse agonist efficacy at human recombinant serotonin 5-HT1A receptors as a function of receptor:G-protein stoichiometry. Newman-Tancredi A, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):451-9

Lack of effect of chronic antidepressant treatment on Gs and Gi alpha-subunit protein and mRNA levels in the rat cerebral cortex. Emamghoreishi M, et al. **Neuropsychopharmacology** 1996 Sep;15(3):281-7

Receptor-induced beta gamma release from fatty acylation-deficient mutants of G alpha z. Beck HI, et al. **Neuroreport** 1997 Mar 3;8(4):937-40

Endogenous opioid receptor-like receptor in human neuroblastoma SK-N-SH cells: activation of inhibitory G protein and homologous desensitization. Cheng ZJ, et al. **Neuroreport** 1997 May 27;8(8):1913-8

Melatonin receptors activate heteromeric G-protein coupled Kir3 channels. Nelson CS, et al. **Neuroreport** 1996 Feb 29; 7(3):717-20

Levels of stimulatory G protein are increased in the rat striatum after neonatal lesion of dopamine neurons. Penit-Soria J, et al. **Neuroreport** 1997 Mar 3;8(4):829-33

Identification of opioid receptor-like (ORL1) peptide-stimulated [35S]GTP gamma S binding in rat brain. Sim LJ, et al. **Neuroreport** 1996 Feb 29;7(3):729-33

Differential selectivity of M1 and M3 type muscarinic acetylcholine receptors in coupling with a G protein G01 alpha examined in Xenopus oocytes. Fujii K, et al. **Neurosci Lett** 1996 Sep 6;215(2):131-3

Carbachol induces inward current in rat neostriatal neurons through a G-protein-coupled mechanism. Hsu KS, et al. **Neurosci Lett** 1997 Mar 14;224(2):79-82

Activation of pertussis toxin-sensitive G-proteins in membranes of SH-SY5Y human neuroblastoma cells and bovine transducin by ethanol. Klinker JF, et al. **Neurosci Lett** 1996 Jul 26;213(1):25-8

G-protein activation by metabotropic glutamate receptors reduces spike frequency adaptation in neocortical neurons. Burke JP, et al. **Neuroscience** 1996 Nov;75(1):123-31

G alpha 9/G alpha 11: immunolocalization in the olfactory epithelium of the rat (Rattus rattus) and the channel catfish (Ictalurus punctatus). Dellacorte C, et al. **Neuroscience** 1996 Sep;74(1):261-73

The G12 coupled thrombin receptor stimulates mitogenesis through the Shc SH2 domain. Collins LR, et al. **Oncogene** 1997 Jul 31;15(5):595-600

R-Ras is regulated by activators and effectors distinct from those that control Ras function. Huff SY, et al. **Oncogene** 1997 Jan 16;14(2):133-43

Association of the Rho family small GTP-binding proteins with Rho GDP dissociation inhibitor (Rho GDI) in Saccharomyces cerevisiae. Koch G, et al. **Oncogene** 1997 Jul 24;15(4):417-22

Synergistic activation of c-fos promoter activity by Raf and Ral GDP dissociation stimulator. Okazaki M, et al. **Oncogene** 1997 Feb 6;14(5):515-21

Association of Krev-1/rap1a with Krit1, a novel ankyrin repeat-containing protein encoded by a gene mapping to 7q21-22. Serebriiskii I, et al. **Oncogene** 1997 Aug 28; 15(9):1043-9

Cooperative transformation of NIH3T3 cells by G alpha12 and Rac1. Tolkacheva T, et al. **Oncogene** 1997 Aug 7; 15(6):727-35

Biochemical characterization of C3G: an exchange factor that discriminates between Rap1 and Rap2 and is not inhibited by Rap1A(S17N). van den Berghe N, et al. **Oncogene** 1997 Aug 14;15(7):845-50

Co-localization of the TSC2 product tuberin with its target Rap1 in the Golgi apparatus. Wienecke R, et al. **Oncogene** 1996 Sep 5;13(5):913-23

Could dual G-protein coupling explain [D-Met2]FMRFamide's mixed action in vivo? Raffa RB, et al. **Peptides** 1996;17(8):1261-5

Effect of low pH treatment on opioid peptides binding to their receptors and functional coupling of G-proteins to adenylyl cyclase in the rat spinal cord. Reddy PL, et al. **Peptides** 1996;17(4):625-8

Atrial natriuretic peptide (ANP)-induced inhibition of glucagon secretion: mechanism of action in isolated rat pancreatic islets. Verspohl EJ, et al. **Peptides** 1996; 17(6):1023-9

Time-dependent effects of in vivo pertussis toxin on morphine analgesia and G-proteins in mice. Shah S, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):465-9

Evaluation of agonist efficacy and receptor reserve for alpha 2D-adrenergic receptor regulated G protein activation in PC12 cell membranes. Tian WN, et al. **Pharmacology** 1996 Apr;52(4):252-62

Characterization of proteins that interact with the GTP-bound form of the regulatory GTPase Ran in Arabidopsis. Haizel T, et al. **Plant J** 1997 Jan;11(1):93-103

Characterization of AtSEC12 and AtSAR1. Proteins likely involved in endoplasmic reticulum and Golgi transport. Bar-Peled M, et al. **Plant Physiol** 1997 May;114(1):315-24

RhoGDIgamma: a GDP-dissociation inhibitor for Rho proteins with preferential expression in brain and pancreas. Adra CN, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4279-84

Novel Gq alpha isoform is a candidate transducer of rhodopsin signaling in a Drosophila testes-autonomous pacemaker. Alvarez CE, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12278-82

L-selectin activates the Ras pathway via the tyrosine kinase p56lck. Brenner B, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15376-81

The p53 tumor suppressor targets a novel regulator of G protein signaling. Buckbinder L, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7868-72

RGS-r, a retinal specific RGS protein, binds an intermediate conformation of transducin and enhances recycling. Chen CK, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12885-9

A surface on the G protein beta-subunit involved in interactions with adenylyl cyclases. Chen Y, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2711-4

Importance of acidic, proline/serine/threonine-rich, and GTP-binding regions in the major histocompatibility complex class II transactivator: generation of transdominant-negative mutants. Chin KC, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2501-6

Receptor and G betagamma isoform-specific interactions with G protein-coupled receptor kinases. Daaka Y, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2180-5

Phosducin is a ubiquitous G-protein regulator. Danner S, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10145-50

GAIP is membrane-anchored by palmitoylation and interacts with the activated (GTP-bound) form of G alpha i subunits. De Vries L, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15203-8

Novel form of crosstalk between G protein and tyrosine kinase pathways. Diversé-Pierluissi M, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5417-21

RGS proteins reconstitute the rapid gating kinetics of gbetagamma-activated inwardly rectifying K+ channels. Doupnik CA, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10461-6

Activation of heteromeric G protein-gated inward rectifier K+ channels overexpressed by adenovirus gene transfer inhibits the excitability of hippocampal neurons. Ehrengruber MU, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7070-5

The small GTP-binding protein Rho links G protein-coupled receptors and Galpha12 to the serum response element and to cellular transformation. Fromm C, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10098-103

Platelet signal transduction defect with Galpha subunit dysfunction and diminished Galphaq in a patient with abnormal platelet responses. Gabbeta J, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8750-5

Selective reconstitution of gastrin-releasing peptide receptor with G alpha q. Hellmich MR, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):751-6

Molecular determinants of inactivation and G protein modulation in the intracellular loop connecting domains I and II of the calcium channel alpha1A subunit. Herlitze S, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1512-6

Attenuation of Gi- and Gq-mediated signaling by expression of RGS4 or GAIP in mammalian cells. Huang C, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6159-63

Conditional activation defect of a human Gsalpha mutant. Iiri T, et al. **Proc Natl Acad Sci U S A** 1997 May 27; 94(11):5656-61

Gsalpha contains an unidentified covalent modification that increases its affinity for adenylyl cyclase. Kleuss C, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6116-20

Cytohesin-1, a cytosolic guanine nucleotide-exchange protein for ADP-ribosylation factor. Meacci E, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1745-8

Isolation of a brefeldin A-inhibited guanine nucleotide-exchange protein for ADP ribosylation factor (ARF) 1 and ARF3 that contains a Sec7-like domain. Morinaga N, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12856-60

Crystal structure of the breakpoint cluster region-homology domain from phosphoinositide 3-kinase p85 alpha subunit. Musacchio A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14373-8

Calexcitin: a signaling protein that binds calcium and GTP, inhibits potassium channels, and enhances membrane excitability. Nelson TJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13808-13

Direct interaction of gbetagamma with a C-terminal gbetagamma-binding domain of the Ca2+ channel alpha1 subunit is responsible for channel inhibition by G protein-coupled receptors. Qin N, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8866-71

Identification of an intramolecular interaction between small regions in type V adenylyl cyclase that influences stimulation of enzyme activity by Gsalpha. Scholich K, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9602-7

Nucleus-associated pools of Rna1p, the Saccharomyces cerevisiae Ran/TC4 GTPse activating protein involved in nucleus/cytosol transit. Traglia HM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7667-72

G alpha(o) is necessary for muscarinic regulation of Ca2+ channels in mouse heart. Valenzuela D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1727-32

Direct and GTP-dependent interaction of ADP ribosylation factor 1 with coatomer subunit beta. Zhao L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4418-23

Muscarinic receptors and cell signalling. Löffelholz K. **Prog Brain Res** 1996;109:191-4 (33 ref.)

Activation, cellular redistribution and enhanced degradation of the G proteins Gq and G11 by endogenously expressed and transfected phospholipase C-coupled muscarinic m1 acetylcholine receptors. Mullaney I, et al. **Prog Brain Res** 1996;109:181-7 (44 ref.)

Participation of small GTP-binding proteins in m3 muscarinic acetylcholine receptor signalling to phospholipase D and C. Rümenapp U, et al. **Prog Brain Res** 1996;109:209-16 (42 ref.)

Effect of membrane lipid alteration on the growth, phospholipase C activity and G protein of HT-29 tumor cells. Awad AB, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Nov; 55(5):293-302

A database of mutants and effects of site-directed mutagenesis experiments on G protein-coupled receptors. Kristiansen K, et al. **Proteins** 1996 Sep;26(1):81-94

Lack of constitutive activation or inactivation of the platelet-activating factor receptor by glutamate substitution of alanine 230. Carlson SA, et al.

Recept Signal Transduct 1996;6(2):111-20
Cloning and characterization of a new member of the G-protein coupled receptor EDG family. Masana MI, et al. **Receptors Channels** 1995;3(4):255-62
GTP synthases. Proton pumping and phosphorylation in ligand-receptor-G alpha-protein complexes. Nederkoorn PH, et al. **Receptors Channels** 1996;4(2):111-28
Bombesin activation of phospholipase C beta 1 in rat acinar pancreatic cells involves the pertussis toxin-sensitive G alpha i3 protein. Pigeon C, et al. **Regul Pept** 1996 Apr 23;62(2-3):153-9
Pertussis toxin sensitive G-proteins are not involved in the mitogenic signaling pathway of insulin-like growth factor-I in normal rat kidney epithelial (NRKE) cells. Siebler T, et al. **Regul Pept** 1996 Apr 23;62(2-3):65-71
Cells count proteins to keep their telomeres in line [news; comment] Barinaga M. **Science** 1997 Feb 14;275(5302):928 . Comment on: Science 1997 Feb 14;275(5302):973-7. Comment on: Science 1997 Feb 14;275(5302):986-90.
Maintenance of human T cell anergy: blocking of IL-2 gene transcription by activated Rap1. Boussiotis VA, et al. **Science** 1997 Oct 3;278(5335):124-8
Bni1p, a yeast formin linking cdc42p and the actin cytoskeleton during polarized morphogenesis. Evangelista M, et al. **Science** 1997 Apr 4;276(5309):118-22
The many faces of WAS protein [news] Featherstone C. **Science** 1997 Jan 3;275(5296):27-8
Protein prenylation, et cetera: signal transduction in two dimensions [comment] Gelb MH. **Science** 1997 Mar 21; 275(5307):1750-1. Comment on: Science 1997 Mar 21;275(5307):1796-800. Comment on: Science 1997 Mar 21;275(5307):1800-4.
Ste5 RING-H2 domain: role in Ste4-promoted oligomerization for yeast pheromone signaling. Inouye C, et al. **Science** 1997 Oct 3;278(5335):103-6
There are GAPS and there are GAPS. Iyengar R. **Science** 1997 Jan 3;275(5296):42-3
Linkage of G protein-coupled receptors to the MAPK signaling pathway through PI 3-kinase gamma. Lopez-Ilasaca M, et al. **Science** 1997 Jan 17; 275(5298):394-7
t-SNARE activation through transient interaction with a rab-like guanosine triphosphatase [see comments] Lupashin VV, et al. **Science** 1997 May 23;276(5316):1255-8. Comment in: Science 1997 May 23;276(5316):1212-3.
A protein-counting mechanism for telomere length regulation in yeast [see comments] Marcand S, et al. **Science** 1997 Feb 14;275(5302):986-90. Comment in: Science 1997 Feb 14;275(5302):928.
Activation of the G protein Gq/11 through tyrosine phosphorylation of the alpha subunit. Umemori H, et al. **Science** 1997 Jun 20;276(5320):1878-81
A G protein-coupled receptor phosphatase required for rhodopsin function. Vinós J, et al. **Science** 1997 Aug 1; 277(5326):687-90
Endotoxin-mediated synthesis of nitric oxide is dependent on Gq protein signal transduction. Kuo PC, et al. **Surgery** 1997 Aug;122(2):394-402; discussion 402-3
Brain region-specific and time-dependent decreases of G alpha i2 in amygdala-kindled rats. Cutz JC, et al. **Synapse** 1996 Mar;22(3):226-31
Rabphilin-3A is transported with fast anterograde axonal transport and associated with synaptic vesicles. Li JY. **Synapse** 1996 Jun;23(2):79-88
Protease-activated G protein-coupled receptors on human platelets and endothelial cells. Brass LF, et al. **Thromb Haemost** 1997 Jul;78(1):234-41 (89 ref.)
Pathophysiology of platelet thrombin receptors. Jamieson GA. **Thromb Haemost** 1997 Jul;78(1):242-6 (49 ref.)
Defective signal transduction through the thromboxane A2 receptor in a patient with a mild bleeding disorder: deficiency of the inositol 1,4,5-triphosphate formation despite normal G-protein activation. Mitsui T, et al. **Thromb Haemost** 1997 May;77(5):991-5
How G proteins work: a continuing story. Coleman DE, et al. **Trends Biochem Sci** 1996 Feb;21(2):41-4 (28 ref.)
Internet resources on G-protein-coupled receptors. Edvardsen O, et al. **Trends Biochem Sci** 1997 Jun; 22(6):226-7
Evidence for a Ras/Ral signaling cascade. Feig LA, et al. **Trends Biochem Sci** 1996 Nov;21(11):438-41 (49 ref.)
Rho family GTPases: the cytoskeleton and beyond. Symons M. **Trends Biochem Sci** 1996 May;21(5):178-81 (45 ref.)
Structural insights into the function of the Rab GDI superfamily. Wu SK, et al. **Trends Biochem Sci** 1996 Dec; 21(12):472-6 (45 ref.)
G protein-coupled receptors: heterologous regulation of homologous desensitization and its implications. Chuang TT, et al. **Trends Pharmacol Sci** 1996 Nov;17(11):416-21 (51 ref.)
Release, metabolism and interconversion of adenine and uridine nucleotides: implications for G protein-coupled P2 receptor agonist selectivity. Harden TK, et al. **Trends Pharmacol Sci** 1997 Feb;18(2):43-6 (15 ref.)
G protein interaction with K+ and Ca2+ channels. Schneider T, et al. **Trends Pharmacol Sci** 1997 Jan; 18(1):8-11 (41 ref.)
HIV-1 coreceptor activity of CCR5 and its inhibition by chemokines: independence from G protein signaling and importance of coreceptor downmodulation. Alkhatib G, et al. **Virology** 1997 Aug 4;234(2):340-8
Immunological demonstration of Gq-protein in Limulus photoreceptors. Dorlöchter M, et al. **Vis Neurosci** 1997 Mar-Apr;14(2):287-92
Light-modulated subcellular localization of the alpha-subunit of GTP-binding protein Gq in crayfish photoreceptors. Terakita A, et al. **Vis Neurosci** 1996 May-Jun;13(3):539-47
[Large and small G proteins in vesicular transport] Homburger V, et al. **Ann Endocrinol (Paris)** 1996; 57(2):83-90 (Eng. Abstr.) **(Fre)**
[Signal transduction by Rac small G proteins in phagocytes] Dorseuil O, et al. **C R Seances Soc Biol Fil** 1997; 191(2):237-46 (49 ref.) (Eng. Abstr.) **(Fre)**
[Coupling of seven transmembrane domains receptors cytosolic PLA2: role of G proteins and protein kinases] Masliah J, et al. **C R Seances Soc Biol Fil** 1996; 190(4):417-23 (28 ref.) (Eng. Abstr.) **(Fre)**
[Cellular information and communication: receptors coupled to g-proteins] Corvol P. **Nucl Med Biol** 1994 Apr; 21(3):287-95 (Eng. Abstr.) **(Fre)**
[Receptor diseases and their evaluation methods] Miyachi Y, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:435-43 (7 ref.) **(Jpn)**
[The role of G-proteins in the specificity of cellular response: characteristics of alpha-subunit structure and function] Tolkacheva TV, et al. **Mol Biol (Mosk)** 1996 Sep-Oct; 30(5):1002-13 (72 ref.) **(Rus)**
[The association of a protein regulator of intracellular Rab7 membrane transport with endosomes containing an epidermal growth factor receptor with activated and inactivated tyrosine kinase] Blagoveshchenskaia AD, et al. **Tsitologiia** 1996;38(8):854-62 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Protein families that mediate Ca2+ signaling in the cardiovascular system. Katz AM. **Am J Cardiol** 1996 Nov 7;78(9A):2-6 (49 ref.)
Stearate inhibition of breast cancer cell proliferation. A mechanism involving epidermal growth factor receptor and G-proteins. Wickramasinghe NS, et al. **Am J Pathol** 1996 Mar;148(3):987-95
Specific coupling of a cation-sensing receptor to G protein alpha-subunits in MDCK cells. Arthur JM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F129-35
Protein kinase A phosphorylation and G protein regulation of type II pneumocyte Na+ channels in lipid bilayers. Berdiev BK, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1262-70
Role of myristoylation in membrane attachment and function of G alpha i-3 on Golgi membranes. Brand SH, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1362-9
Albumin endocytosis is regulated by heterotrimeric GTP-binding protein G alpha i-3 in opossum kidney cells. Brunskill NJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F356-64
Parathyroid hormone inhibits Na(+)-K(+)-ATPase through Gq/G11 and the calcium-independent phospholipase A2. Derrickson BH, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F781-8
Regulation of HCO3- absorption by prostaglandin E2 and G proteins in rat medullary thick ascending limb. Good DW, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F711-7
Turning off the signal: mechanisms that attenuate signaling by G protein-coupled receptors. Grady EF, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G586-601 (132 ref.)
Endothelin ETA receptor regulates signaling and ANF gene expression via multiple G protein-linked pathways. Hilal-Dandan R, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H130-7
Regulation of atrial muscarinic K+ channel activity by a cytosolic protein via G protein-independent pathway. Hong SG, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H526-37
G proteins activate ionic conductances at multiple sites in T84 cells. Izu L, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1222-31
G alpha(i-2) mediates renal LLC-PK1 growth by a Raf-independent activation of p42/p44 MAP kinase. Kinane TB, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):F273-82
Inhibitory effects of Gs on desensitization of beta-adrenergic receptors in tracheal smooth muscle. Kume H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L556-64
Lipoprotein-stimulated surfactant secretion in alveolar type II cells: mediation by heterotrimeric G proteins. Pian MS, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L634-9
CCK, carbachol, and bombesin activate distinct PLC-beta isoenzymes via Gq/11 in rat pancreatic acinar membranes. Piiper A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G135-40
Epidermal growth factor activates phospholipase C-gamma 1 via G(i)1-2 proteins in isolated pancreatic acinar membranes. Piiper A, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1276-84
Dual role for AlF4(-)-sensitive G proteins in the function of T84 epithelial cells: transport and barrier effects. Ries J, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C794-803
Dual regulation of PLA2 and PGI2 production by G proteins in bovine aortic endothelial cells. Rosenstock M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C555-62
Annexin II inhibition of G protein-regulated inositol trisphosphate formation in rat aortic smooth muscle. Schelling JR, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):F682-90
G protein-coupled receptors control vascular smooth muscle cell proliferation via pp60c-src and p21ras. Schieffer B, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C2019-30
Involvement of G proteins in the effect of carbachol and cholecystokinin in rat pancreatic islets. Verspohl EJ, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E65-72
M2 receptor activation of nonselective cation channels in smooth muscle cells: calcium and Gi/G(o) requirements. Wang YX, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C500-8
Reduced G protein functions and immunoreactive levels in mononuclear leukocytes of patients with depression. Avissar S, et al. **Am J Psychiatry** 1997 Feb;154(2):211-7
Receptors for VIP, PACAP, secretin, GRF, glucagon, GLP-1, and other members of their new family of G protein-linked receptors: structure-function relationship with special reference to the human VIP-1 receptor. Laburthe M, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:94-109; discussion 110-1 (64 ref.)
Is promiscuity of G protein interaction an issue in the classification of receptors? Milligan G. **Ann N Y Acad Sci** 1997 May 30;812:126-32 (31 ref.)
Transduction is a major factor influencing receptor characterization. Spedding M, et al. **Ann N Y Acad Sci** 1997 May 30;812:29-40 (49 ref.)
Bacterial cell division and the Z ring. Lutkenhaus J, et al. **Annu Rev Biochem** 1997;66:93-116 (105 ref.)
G protein mechanisms: insights from structural analysis. Sprang SR. **Annu Rev Biochem** 1997;66:639-78 (235 ref.)
Functional and structural complexity of signal transduction via G-protein-coupled receptors. Gudermann T, et al. **Annu Rev Neurosci** 1997;20:399-427 (192 ref.)
Partial characterization of G proteins and PLC as possible signal transduction elements during adhesion of Entamoeba histolytica to fibronectin. Soid Raggi LG, et al. **Arch Med Res** 1997;28 Spec No:132-3
Role of G-proteins in altered beta-adrenergic responsiveness in the failing and hypertrophied myocardium. Böhm M, et al. **Basic Res Cardiol** 1996;91 Suppl 2:47-51 (30 ref.)
Rab5 regulates the dynamics of early endosome fusion. Barbieri MA, et al. **Biocell** 1996 Dec;20(3):331-8 (47 ref.)
Rab5 GTPase and endocytosis. Li G. **Biocell** 1996 Dec; 20(3):325-30 (37 ref.)
Role of the heterotrimeric G proteins in stromal-derived factor-1alpha-induced natural killer cell chemotaxis and calcium mobilization. Maghazachi AA. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):270-4
Nuclear signalling by rac GTPase: essential role of phospholipase A2. Kim BC, et al. **Biochem J** 1997 Sep 1; 326 (Pt 2):333-7
G-protein inhibition of phospholipase C-beta 1 in membranes: role of G-protein beta gamma subunits. Litosch I. **Biochem J** 1996 Oct 1;319 (Pt 1):173-8
Heterologous expression of rab4 reduces glucose transport and GLUT4 abundance at the cell surface in oocytes. Mora S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):455-9
Sphingosine 1-phosphate stimulates rho-mediated tyrosine phosphorylation of focal adhesion kinase and paxillin in Swiss 3T3 fibroblasts. Wang F, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):481-8
Interaction between G protein-operated receptors eliciting secretion in rat adrenals. A possible role of protein kinase C. Alvarez C, et al. **Biochem Pharmacol** 1997 Feb 7; 53(3):317-25
Heterotrimeric G-proteins and development. Malbon CC. **Biochem Pharmacol** 1997 Jan 10;53(1):1-4 (28 ref.)
Mechanistic model of G-protein signal transduction. Determinants of efficacy and effect of precoupled receptors. Shea L, et al. **Biochem Pharmacol** 1997 Feb 21; 53(4):519-30
Molecular mechanisms underlying the activation and regulation of the alpha 1B-adrenergic receptor. Cotecchia S, et al. **Biochem Soc Trans** 1996 Nov;24(4):959-63 (21 ref.)
G-protein-coupled receptor kinases and arrestins: regulators of G-protein-coupled receptor sequestration. Ferguson SS, et al. **Biochem Soc Trans** 1996 Nov;24(4):953-9 (49 ref.)
Role of Rab3a in neurotransmitter and hormone release: a discussion of recent data. Henry JP, et al. **Biochem Soc Trans** 1996 Aug;24(3):657-61 (20 ref.)
Regulators of G-protein-mediated signalling. Lohse MJ, et al. **Biochem Soc Trans** 1996 Nov;24(4):975-80 (52 ref.)
Structure and function of proteins in G-protein-coupled signal transfer. Helmreich EJ, et al. **Biochim Biophys Acta** 1996 Oct 29;1286(3):285-322 (525 ref.)
The pituitary adenylate cyclase activating polypeptide (PACAP I) and VIP (PACAP II VIP1) receptors stimulate inositol phosphate synthesis in transfected CHO cells through interaction with different G proteins. Van Rampelbergh J, et al. **Biochim Biophys Acta** 1997 Jun 27; 1357(2):249-55
The small nuclear GTPase Ran: how much does it run? Rush MG, et al. **Bioessays** 1996 Feb;18(2):103-12 (70 ref.)
Elementary events underlying voltage-dependent G-protein inhibition of N-type calcium channels. Patil PG, et al. **Biophys J** 1996 Nov;71(5):2509-21
Biophysical and functional consequences of receptor-mediated nerve fiber transformation. Tanelian DL, et al. **Biophys J** 1997 Mar;72(3):1092-108
Specific Gq protein involvement in muscarinic M3 receptor-induced phosphatidylinositol hydrolysis and Ca2+ release in mouse duodenal myocytes. Morel JL, et al. **Br J Pharmacol** 1997 Jun;121(3):451-8
Oestradiol-induced relaxation of rabbit basilar artery by

inhibition of voltage-dependent Ca channels through GTP-binding protein. Ogata R, et al. **Br J Pharmacol** 1996 Jan;117(2):351–9

G protein-independent stimulation of human myocardial phospholipase C by mastoparan. Schnabel P, et al. **Br J Pharmacol** 1997 Sep;122(1):31–6

The involvement of pertussis toxin-sensitive G proteins in the post receptor mechanism of central I1-imidazoline receptors. Takada K, et al. **Br J Pharmacol** 1997 Apr; 120(8):1575–81

Impaired G-protein-stimulated adenylyl cyclase activity in Alzheimer's disease brain is not accompanied by reduced cyclic-AMP-dependent protein kinase A activity. Bonkale WL, et al. **Brain Res** 1996 Oct 21;737(1–2):155–61

High opioid doses inhibit whereas low doses enhance neuritogenesis in PC12 cells. Tenconi B, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):175–81

Cloning of a G protein-activated inwardly rectifying potassium channel from human cerebellum. Schoots O, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):23–30

G alpha q/11 mediates neurotensin excitation of substantia nigra dopaminergic neurons. Wang HL, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):29–36

Regulation of cytoskeletal functions by Rho small GTP-binding proteins in normal and cancer cells. Boivin D, et al. **Can J Physiol Pharmacol** 1996 Jul;74(7):801–10 (85 ref.)

ATP shortens atrial action potential duration in the dog: role of adenosine, the vagus nerve, and G protein. Pelleg A, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):15–22

Regulation of cadherin-mediated adhesion by the small GTP-binding protein Rho in small cell lung carcinoma cells. Tokman MG, et al. **Cancer Res** 1997 May 1; 57(9):1785–93

Regulation of the actin cytoskeleton, integrins and cell growth by the Rho family of small GTPases. Hotchin NA, et al. **Cancer Surv** 1996;27:311–22 (73 ref.)

Oncogenic role of heterotrimeric G proteins. Vallar L. **Cancer Surv** 1996;27:325–38 (74 ref.)

Rac and Cdc42 induce actin polymerization and G1 cell cycle progression independently of p65PAK and the JNK/SAPK MAP kinase cascade. Lamarche N, et al. **Cell** 1996 Nov 1;87(3):519–29

Exocytosis in single chromaffin cells: regulation by a secretory granule-associated Go protein. Vitale N, et al. **Cell Mol Neurobiol** 1997 Feb;17(1):71–87

Signaling by the G12 class of G proteins. Dhanasekaran N, et al. **Cell Signal** 1996 Jun;8(4):235–45 (80 ref.)

Heterotrimeric G proteins in heart disease. Schnabel P, et al. **Cell Signal** 1996 Sep;8(6):413–23 (126 ref.)

Arf and RhoA regulate both the cytosolic and the membrane-bound phospholipase D from human placenta. Vinggaard AM, et al. **Cell Signal** 1997 Feb;9(2):189–96

Mechanisms of coronary microvascular dilation induced by the activation of pertussis toxin-sensitive G proteins are vessel-size dependent. Heterogeneous involvement of nitric oxide pathway and ATP-sensitive K+ channels. Komaru T, et al. **Circ Res** 1997 Jan;80(1):1–10

Selectively enhanced cellular signaling by Gi proteins in essential hypertension. G alpha i2, G alpha i3, G beta 1, and G beta 2 are not mutated. Pietruck F, et al. **Circ Res** 1996 Nov;79(5):974–83

G(o)2 and Gi3 proteins mediate the action of somatostatin on membrane Ca2+ and K+ currents in ovine pituitary somatotrophs. Chen C. **Clin Exp Pharmacol Physiol** 1997 Aug;24(8):639–45

Visualizing signal transduction: receptors, G-proteins, and adenylate cyclases [published erratum appears in Clin Sci (Colch) 1997 Feb;92(2):223] Dessauer CW, et al. **Clin Sci (Colch)** 1996 Nov;91(5):527–37 (56 ref.)

Intracellular signalling: turning down G-protein signals. Neer EJ. **Curr Biol** 1997 Jan 1;7(1):R31–3

Rho: theme and variations. Ridley AJ. **Curr Biol** 1996 Oct 1;6(10):1256–64 (73 ref.)

The diversity of Rab proteins in vesicle transport. Novick P, et al. **Curr Opin Cell Biol** 1997 Aug;9(4):496–504 (78 ref.)

Interacting signaling pathways controlling multicellular development in Dictyostelium. Firtel RA. **Curr Opin Genet Dev** 1996 Oct;6(5):545–54 (64 ref.)

Rho GTPases and leukocyte cytoskeletal regulation. Dharmawardhane S, et al. **Curr Opin Hematol** 1997 Jan; 4(1):12–8 (83 ref.)

Rho family GTP-binding proteins in growth cone signalling. Luo L, et al. **Curr Opin Neurobiol** 1997 Feb;7(1):81–6 (43 ref.)

Role of Tiam 1 in Rac-mediated signal transduction pathways. Collard JG, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):253–65 (73 ref.)

Analysis of cell movement and signalling during ring formation in an activated G alpha1 mutant of Dictyostelium discoideum that is defective in prestalk zone formation. Rietdorf J, et al. **Dev Biol** 1997 Jan 1;181(1):79–90

Reduced expression of the leptin gene (ob) by catecholamine through a G(S) protein-coupled pathway in 3T3-L1 adipocytes. Kosaki A, et al. **Diabetes** 1996 Dec; 45(12):1744–9

The GTPase Rho has a critical regulatory role in thymus development. Henning SW, et al. **EMBO J** 1997 May 1; 16(9):2397–407

The small GTP binding protein rab7 is essential for cellular vacuolation induced by Helicobacter pylori cytotoxin. Papini E, et al. **EMBO J** 1997 Jan 2;16(1):15–24

G proteins in Ustilago maydis: transmission of multiple signals? Regenfelder E, et al. **EMBO J** 1997 Apr 15; 16(8):1934–42

p619, a giant protein related to the chromosome condensation regulator RCC1, stimulates guanine nucleotide exchange on ARF1 and Rab proteins [published erratum appears in EMBO J 1996 Oct 15;15(20):5738] Rosa JL, et al. **EMBO J** 1996 Aug 15;15(16):4262–73

The Aspergillus FlbA RGS domain protein antagonizes G protein signaling to block proliferation and allow development. Yu JH, et al. **EMBO J** 1996 Oct 1; 15(19):5184–90

Association of the G protein alpha(q)/alpha11-subunit with cytoskeleton in adrenal glomerulosa cells: role in receptor-effector coupling. Côté M, et al. **Endocrinology** 1997 Aug;138(8):3299–307

Increased cyclic adenosine 3',5'-monophosphate inhibits G protein-coupled activation of phospholipase C in rat FRTL-5 thyroid cells. Laglia G, et al. **Endocrinology** 1996 Aug;137(8):3170–6

Activation of G proteins mediates flow-induced prostaglandin E2 production in osteoblasts. Reich KM, et al. **Endocrinology** 1997 Mar;138(3):1014–8

Gi3 mediates somatostatin-induced activation of an inwardly rectifying K+ current in human growth hormone-secreting adenoma cells. Takano K, et al. **Endocrinology** 1997 Jun;138(6):2405–9

Mastoparan-stimulated prolactin secretion in rat pituitary GH3 cells involves activation of Gq/11 proteins. Yajima Y, et al. **Endocrinology** 1997 May;138(5):1949–58

Cell signalling through guanine-nucleotide-binding regulatory proteins (G proteins) and phospholipases. Exton JH. **Eur J Biochem** 1997 Jan 15;243(1–2):10–20 (110 ref.)

Melatonin receptors are present in adult rat Leydig cells and are coupled through a pertussis toxin-sensitive G-protein. Valenti S, et al. **Eur J Endocrinol** 1997 Jun;136(6):633–9

GP55 inhibits both cell adhesion and growth of neurons, but not non-neuronal cells, via a G-protein-coupled receptor. Clarke GA, et al. **Eur J Neurosci** 1997 Feb;9(2):334–41

Gx/z is regulated by mu but not delta opioid receptors in the stimulation of the low Km GTPase activity in mouse periaqueductal grey matter. Garzón J, et al. **Eur J Neurosci** 1997 Jun;9(6):1194–200

A slow excitatory postsynaptic current mediated by G-protein-coupled metabotropic glutamate receptors in rat ventral tegmental dopamine neurons. Shen KZ, et al. **Eur J Neurosci** 1997 Jan;9(1):48–54

Development of G protein-mediated Ca2+ channel regulation in mouse embryonic stem cell-derived neurons. Strübing C, et al. **Eur J Neurosci** 1997 Apr;9(4):824–32

Trimeric G proteins control regulated exocytosis in bovine chromaffin cells: sequential involvement of Go associated with secretory granules and Gi3 bound to the plasma membrane. Vitale N, et al. **Eur J Neurosci** 1996 Jun; 8(6):1275–85

Involvement of G alpha q/11 in the contractile signal transduction pathway of muscarinic M3 receptors in caecal smooth muscle. Cuq P, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):213–9

Cyclic AMP-induced desensitization of G-protein-regulated phospholipase C in turkey erythrocyte membranes. Galas MC, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):157–64

Differences in G-protein activation by mu- and delta-opioid, and cannabinoid, receptors in rat striatum. Sim LJ, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):97–105

Do G proteins have a role in antidepressant actions? Bourin M, et al. **Eur Neuropsychopharmacol** 1996 Mar;6(1):49–53 (68 ref.)

Involvement of phosphatidylinositide 3'-kinase and Rac in platelet-derived growth factor-induced actin reorganization and chemotaxis. Hooshmand-Rad R, et al. **Exp Cell Res** 1997 Aug 1;234(2):434–41

Heterotrimeric G-proteins are implicated in the regulation of apoptosis in pancreatic beta-cells. Loweth AC, et al. **Exp Cell Res** 1996 Nov 25;229(1):69–76

Mutational analysis of the role of Rap1 in regulating cytoskeletal function in Dictyostelium. Rebstein PJ, et al. **Exp Cell Res** 1997 Mar 15;231(2):276–83

G protein regulation of alveolar ion channels: implications for lung fluid transport. Kemp PJ, et al. **Exp Physiol** 1996 May;81(3):493–504 (35 ref.)

Interferon-inducible protein-10 and lymphotactin induce the chemotaxis and mobilization of intracellular calcium in natural killer cells through pertussis toxin-sensitive and -insensitive heterotrimeric G-proteins. Maghazachi AA, et al. **FASEB J** 1997 Aug;11(10):765–74

In search of a function for the Ras-like GTPase Rap1. Bos JL, et al. **FEBS Lett** 1997 Jun 23;410(1):59–62 (31 ref.)

The basal subcellular distribution of beta-adrenergic receptor kinase is independent of G-protein beta gamma subunits. Murga C, et al. **FEBS Lett** 1997 Jun 2;409(1):24–8

Tumor necrosis factor alpha inhibits collagen alpha 1(I) gene expression in rat hepatic stellate cells through a G protein. Hernández-Muñoz I, et al. **Gastroenterology** 1997 Aug; 113(2):625–40

GTP-binding protein regulates the contractile response elicited by the phorbol ester (PMA)-induced activation of protein kinase C in the isolated rat aorta. Suenaga H, et al. **Gen Pharmacol** 1996 Sep;27(6):1035–9

Effects of spinally and supraspinally injected 3-isobutyl-1-methylxanthine, cholera toxin, and pertussis toxin on cold water swimming stress-induced antinociception in the mouse. Suh HW, et al. **Gen Pharmacol** 1997 Apr;28(4):607–10

A novel function of the C-terminal lipid moieties of Rab3A small G protein implicated in Ca2+-dependent exocytosis--inhibition of interaction with GTP and reduction of this inhibition by phospholipid. Jin-no Y, et al. **Genes Cells** 1997 Apr;2(4):273–88

Involvement of Rho and Rac small G proteins and Rho GDI in Ca2+-dependent exocytosis from PC12 cells. Komuro R, et al. **Genes Cells** 1996 Oct;1(10):943–51

Two neuronal G proteins are involved in chemosensation of the Caenorhabditis elegans Dauer-inducing pheromone. Zwaal RR, et al. **Genetics** 1997 Mar;145(3):715–27

Platelet activation via trimeric GTP-binding proteins. Akkerman JW, et al. **Haemostasis** 1996 Oct;26 Suppl 4:199–209 (35 ref.)

Possible involvement of pertussis toxin-sensitive G protein in hepatocyte growth factor-induced signal transduction in cultured rat hepatocytes: pertussis toxin treatment inhibits activation of phospholipid signaling, calcium oscillation, and mitogen-activated protein kinase. Adachi T, et al. **Hepatology** 1997 Aug;26(2):295–300

The cardiac beta-adrenoceptor-mediated signaling pathway and its alterations in hypertensive heart disease. Castellano M, et al. **Hypertension** 1997 Mar;29(3):715–22 (52 ref.)

G-protein function is reduced in hypertension. Feldman RD, et al. **Hypertension** 1997 Jan;29(1 Pt 2):422–7

Different functions of the GTPase Rho in prothymocytes and late pre-T cells. Galandrini R, et al. **Immunity** 1997 Jul;7(1):163–74

Diadenosine polyphosphates induce intracellular Ca2+ mobilization in human neutrophils via a pertussis toxin sensitive G-protein. Gasmi L, et al. **Immunology** 1997 Jan; 90(1):154–9

Involvement of tubulin and inhibitory G proteins in the interaction of Listeria monocytogenes with mouse hepatocytes. Buchwalow IB, et al. **Infect Immun** 1997 Mar; 65(3):1095–7

Role of kinases and G-proteins on arachidonate release induced by zymosan in mouse peritoneal macrophages. Lloret S, et al. **Int J Biochem Cell Biol** 1996 Apr; 28(4):465–72

Modulation of respiratory rhythm in vitro: role of Gi/o protein-mediated mechanisms. Johnson SM, et al. **J Appl Physiol** 1996 Jun;80(6):2120–33

Characterization of membrane-associated Pseudomonas aeruginosa Ras-like protein Pra, a GTP-binding protein that forms complexes with truncated nucleoside diphosphate kinase and pyruvate kinase to modulate GTP synthesis. Chopade BA, et al. **J Bacteriol** 1997 Apr; 179(7):2181–8

Specific regions of heteromeric subunits involved in enhancement of G protein-gated K+ channel activity. Chan KW, et al. **J Biol Chem** 1997 Mar 7;272(10):6548–55

Alpha1-adrenergic receptor signaling via Gh is subtype specific and independent of its transglutaminase activity. Chen S, et al. **J Biol Chem** 1996 Dec 13;271(50):32385–91

Ablation of Go alpha-subunit results in a transformed phenotype and constitutively active phosphatidylcholine-specific phospholipase C. Cheng J, et al. **J Biol Chem** 1997 Jul 11;272(28):17312–9

Signaling from G protein-coupled receptors to the c-jun promoter involves the MEF2 transcription factor. Evidence for a novel c-jun amino-terminal kinase-independent pathway. Coso OA, et al. **J Biol Chem** 1997 Aug 15;272(33):20691–7

Ras-dependent mitogen-activated protein kinase activation by G protein-coupled receptors. Convergence of Gi- and Gq-mediated pathways on calcium/calmodulin, Pyk2, and Src kinase. Della Rocca GJ, et al. **J Biol Chem** 1997 Aug 1;272(31):19125–32

Differential translocation of rho family GTPases by lysophosphatidic acid, endothelin-1, and platelet-derived growth factor. Fleming IN, et al. **J Biol Chem** 1996 Dec 20;271(51):33067–73

Trimeric G proteins control exocytosis in chromaffin cells. Go regulates the peripheral actin network and catecholamine secretion by a mechanism involving the small GTP-binding protein Rho. Gasman S, et al. **J Biol Chem** 1997 Aug 15;272(33):20564–71

Sustained activation of a G protein-coupled receptor via "anchored" agonist binding. Molecular localization of the salmeterol exosite within the 2-adrenergic receptor. Green SA, et al. **J Biol Chem** 1996 Sep 27;271(39):24029–35

Geranylgeranylated rho small GTPase(s) are essential for the degradation of p27Kip1 and facilitate the progression from G1 to S phase in growth-stimulated rat FRTL-5 cells. Hirai A, et al. **J Biol Chem** 1997 Jan 3;272(1):13–6

The G beta gamma complex of the yeast pheromone response pathway. Subcellular fractionation and protein-protein interactions. Hirschman JE, et al. **J Biol Chem** 1997 Jan 3;272(1):240–8

Galpha12 and Galpha13 mediate differentiation of P19 mouse embryonal carcinoma cells in response to retinoic acid. Jho EH, et al. **J Biol Chem** 1997 Sep 26;272(39):24461–7

c-Jun amino-terminal kinase is regulated by Galpha12/Galpha13 and obligate for differentiation of P19 embryonal carcinoma cells by retinoic acid. Jho EH, et al. **J Biol Chem** 1997 Sep 26;272(39):24468–74

The role of sequestration in G protein-coupled receptor

resensitization. Regulation of beta2-adrenergic receptor dephosphorylation by vesicular acidification. Krueger KM, et al. **J Biol Chem** 1997 Jan 3;272(1):5–8

Identification of Triton X-100 insoluble membrane domains in the yeast Saccharomyces cerevisiae. Lipid requirements for targeting of heterotrimeric G-protein subunits. Kübler E, et al. **J Biol Chem** 1996 Dec 20;271(51):32975–80

Gpa2p, a G-protein alpha-subunit, regulates growth and pseudohyphal development in Saccharomyces cerevisiae via a cAMP-dependent mechanism. Kübler E, et al. **J Biol Chem** 1997 Aug 15;272(33):20321–3

Galpha12 differentially regulates Na+-H+ exchanger isoforms. Lin X, et al. **J Biol Chem** 1996 Sep 13; 271(37):22604–10

Factors determining the specificity of signal transduction by guanine nucleotide-binding protein-coupled receptors. Integration of stimulatory and inhibitory input to the effector adenylyl cyclase. Marjamaki A, et al. **J Biol Chem** 1997 Jun 27;272(26):16466–73

Subunit stoichiometry of a heteromultimeric G protein-coupled inward-rectifier K+ channel. Silverman SK, et al. **J Biol Chem** 1996 Nov 29;271(48):30524–8

Stimulus-dependent phosphorylation of G-protein-coupled receptors by casein kinase 1alpha. Tobin AB, et al. **J Biol Chem** 1997 Aug 15;272(33):20844–9

Arrest of mycobacterial phagosome maturation is caused by a block in vesicle fusion between stages controlled by rab5 and rab7. Via LE, et al. **J Biol Chem** 1997 May 16; 272(20):13326–31

Ablation of Goalpha overrides G1 restriction point control through Ras/ERK/cyclin D1-CDK activities. Weber JD, et al. **J Biol Chem** 1997 Jul 11;272(28):17320–6

Molecular determinants for assembly of G-protein-activated inwardly rectifying K+ channels. Woodward R, et al. **J Biol Chem** 1997 Apr 18;272(16):10823–30

The rat D4 dopamine receptor couples to cone transducin (Galphat2) to inhibit forskolin-stimulated cAMP accumulation. Yamaguchi I, et al. **J Biol Chem** 1997 Jun 27;272(26):16599–602

Role of protein kinase C alpha, Arf, and cytoplasmic calcium transients in phospholipase D activation by sodium fluoride in osteoblast-like cells. Bourgoin SG, et al. **J Bone Miner Res** 1996 Nov;11(11):1655–65

A distinct cation-sensing mechanism in MC3T3-E1 osteoblasts functionally related to the calcium receptor. Quarles LD, et al. **J Bone Miner Res** 1997 Mar; 12(3):393–402

Phosphorylation of the G protein alpha-subunit, G alpha 2, of Dictyostelium discoideum requires a functional and activated G alpha 2. Gundersen RE. **J Cell Biochem** 1997 Aug 1;66(2):268–76

Progesterone triggers rapid transmembrane calcium influx and/or calcium mobilization from endoplasmic reticulum, via a pertussis-insensitive G-protein in granulosa cells in relation to luteinization process. Machelon V, et al. **J Cell Biochem** 1996 Jun 15;61(4):619–28

Protein kinases A and C positively regulate G protein-dependent activation of phosphatidylinositol-specific phospholipase C by tumor necrosis factor-alpha in MC3T3-E1 osteoblasts. Rapuano BE, et al. **J Cell Biochem** 1997 May;65(2):198–208

Studies on the function of rho A protein in cardiac myofibrillogenesis. Wang SM, et al. **J Cell Biochem** 1997 Jul 1;66(1):43–53

The small GTPases Rho and Rac are required for the establishment of cadherin-dependent cell-cell contacts. Braga VM, et al. **J Cell Biol** 1997 Jun 16;137(6):1421–31

Roles for Rac1 and Cdc42 in planar polarization and hair outgrowth in the wing of Drosophila. Eaton S, et al. **J Cell Biol** 1996 Dec;135(5):1277–89

Regulation mechanism of ERM (ezrin/radixin/moesin) protein/plasma membrane association: possible involvement of phosphatidylinositol turnover and Rho-dependent signaling pathway. Hirao M, et al. **J Cell Biol** 1996 Oct;135(1):37–51

Role of actin polymerization and adhesion to extracellular matrix in Rac- and Rho-induced cytoskeletal reorganization. Machesky LM, et al. **J Cell Biol** 1997 Aug 25;138(4):913–26

Rho- and rac-dependent assembly of focal adhesion complexes and actin filaments in permeabilized fibroblasts: an essential role for ezrin/radixin/moesin proteins. Mackay DJ, et al. **J Cell Biol** 1997 Aug 25;138(4):927–38

Regulated membrane localization of Tiam1, mediated by the NH2-terminal pleckstrin homology domain, is required for Rac-dependent membrane ruffling and C-Jun NH2-terminal kinase activation. Michiels F, et al. **J Cell Biol** 1997 Apr 21;137(2):387–98

Sequential actions of Rab5 and Rab7 regulate endocytosis in the Xenopus oocyte. Mukhopadhyay A, et al. **J Cell Biol** 1997 Mar 24;136(6):1227–37

Rab8 promotes polarized membrane transport through reorganization of actin and microtubules in fibroblasts. Peränen J, et al. **J Cell Biol** 1996 Oct;135(1):153–67

Regulation of actin polymerization in cell-free systems by GTPgammaS and Cdc42. Zigmond SH, et al. **J Cell Biol** 1997 Jul 28;138(2):363–74

Hormone-defined cell system for studying G-protein coupled receptor agonist-activated growth modulation: delta-opioid and serotonin-5HT2C receptor activation show opposite mitogenic effects. Agarwal D, et al. **J Cell Physiol** 1997 Apr;171(1):61–74

Evidence for a role of G protein beta gamma subunits in the enhancement of cAMP accumulation and DNA synthesis by adenosine in human cells. Ahmed AH, et al. **J Cell Physiol** 1997 Mar;170(3):263–71

Alkaline pH facilitates the exchange of guanine nucleotides: a possible mechanism for modulation of the kinetics of responses mediated by guanine nucleotide-binding proteins. Lipinsky D, et al. **J Cell Physiol** 1996 Oct;169(1):167–74

Rac is required for growth cone function but not neurite assembly. Lamoureux P, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):635–41

G-protein alpha subunit Gi(alpha)2 mediates erythropoietin signal transduction in human erythroid precursors. Miller BA, et al. **J Clin Invest** 1996 Oct 15;98(8):1728–36

Expression of the Gs protein alpha-subunit disrupts the normal program of differentiation in cultured murine myogenic cells. Tsai CC, et al. **J Clin Invest** 1997 Jan 1; 99(1):67–76

Regulation of mouse placental lactogen secretion by G proteins before midpregnancy. Yamaguchi M, et al. **J Endocrinol Invest** 1996 Sep;19(8):492–8

Rho is required for the initiation of calcium signaling and phagocytosis by Fcgamma receptors in macrophages. Hackam DJ, et al. **J Exp Med** 1997 Sep 15;186(6):955–66

STRL33, A novel chemokine receptor-like protein, functions as a fusion cofactor for both macrophage-tropic and T cell line-tropic HIV-1. Liao F, et al. **J Exp Med** 1997 Jun 2;185(11):2015–23

rho, a small GTP-binding protein, is essential for Shigella invasion of epithelial cells. Watarai M, et al. **J Exp Med** 1997 Jan 20;185(2):281–92

A functional model for G protein activation of the muscarinic K+ channel in guinea pig atrial myocytes. Spectral analysis of the effect of GTP on single-channel kinetics. Hosoya Y, et al. **J Gen Physiol** 1996 Dec;108(6):485–95

Na+ activation of the muscarinic K+ channel by a G-protein-independent mechanism. Sui JL, et al. **J Gen Physiol** 1996 Nov;108(5):381–91

Rho is a negative regulator of human monocyte spreading. Aepfelbacher M, et al. **J Immunol** 1996 Dec 1; 157(11):5070–5

Phosphorylation by a G protein-coupled kinase inhibits signaling and promotes internalization of the monocyte chemoattractant protein-1 receptor. Critical role of carboxyl-tail serines/threonines in receptor function. Franci C, et al. **J Immunol** 1996 Dec 15;157(12):5606–12

IL-2 signaling controls actin organization through Rho-like protein family, phosphatidylinositol 3-kinase, and protein kinase C-zeta. Gómez J, et al. **J Immunol** 1997 Feb 15; 158(4):1516–22

Preferential involvement of Go and Gz proteins in mediating rat natural killer cell lysis of allogeneic and tumor target cells. Maghazachi AA, et al. **J Immunol** 1996 Dec 15; 157(12):5308–14

TNF initiates E-selectin transcription in human endothelial cells through parallel TRAF-NF-kappa B and TRAF-RAC/CDC42-JNK-c-Jun/ATF2 pathways. Min W, et al. **J Immunol** 1997 Oct 1;159(7):3508–18

Chemotactic 5-oxo-eicosatetraenoic acids induce oxygen radical production, Ca2+-mobilization, and actin reorganization in human eosinophils via a pertussis toxin-sensitive G-protein. Czech W, et al. **J Invest Dermatol** 1997 Jan;108(1):108–12

ICAM-1 expression and low-molecular-weight G-protein activation of human bronchial epithelial cells (A549) infected with RSV. Arnold R, et al. **J Leukoc Biol** 1996 Dec;60(6):766–71

A theoretical approach to G-protein modulation of cellular responsiveness. Nauroschat J, et al. **J Math Biol** 1997 May; 35(5):609–27

G protein-mediated activation of a nonspecific cation current in cultured rat retinal pigment epithelial cells. Poyer JF, et al. **J Membr Biol** 1996 Sep;153(1):13–26

Targeting G protein-coupled receptor kinases to their receptor substrates. Stoffel RH 3rd, et al. **J Membr Biol** 1997 May 1;157(1):1–8 (49 ref.)

Acetylcholine modulates I(f) and IK(ACh) via different pathways in rabbit sino-atrial node cells. Renaudon B, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):969–75

Conditional, tissue-specific expression of Q205L G alpha i2 in vivo mimics insulin action [see comments] Chen JF, et al. **J Mol Med** 1997 Apr;75(4):283–9. Comment in: J Mol Med 1997 Apr;75(4):233–5.

Guanine nucleotide exchange factors for the Rho GTPases: a role in human disease? Olson MF. **J Mol Med** 1996 Oct; 74(10):563–71 (85 ref.)

4-Hydroxynonenal, an aldehydic product of lipid peroxidation, impairs signal transduction associated with muscarinic acetylcholine and metabotropic glutamate receptors: possible action on G alpha(q/11). Blanc EM, et al. **J Neurochem** 1997 Aug;69(2):570–80

Interactions of muscarinic receptors with the heterotrimeric G proteins Gq and G12: transduction of proliferative signals. Burstein ES, et al. **J Neurochem** 1997 Feb; 68(2):525–33

Altered mu-opiate receptor-G protein signal transduction following chronic morphine exposure. Wang L, et al. **J Neurochem** 1997 Jan;68(1):248–54

G alpha q/11 mediates cholecystokinin activation of the cationic conductance in rat substantia nigra dopaminergic neurons. Wu T, et al. **J Neurochem** 1996 Mar;66(3):1060–6

Partially purified RhoA-stimulated phospholipase D activity specifically binds to phosphatidylinositol 4,5-bisphosphate. Yokozeki T, et al. **J Neurochem** 1996 Mar;66(3):1234–9

PACAP and VIP stimulate Ca2+ oscillations in rat gonadotrophs through the PACAP/VIP type 1 receptor (PVR1) linked to a pertussis toxin-insensitive G-protein and the activation of phospholipase C-beta. Hezareh M, et al. **J Neuroendocrinol** 1996 May;8(5):367–74

Adenosine inhibits L- and N-type calcium channels in pituitary melanotrophs. Evidence for the involvement of a G protein in calcium channel gating. Mei YA, et al. **J Neuroendocrinol** 1996 Feb;8(2):85–91

Measurement of early events in signal transduction beyond receptors involving G proteins function in mononuclear leucocytes. Avissar S, et al. **J Neuroimmunol** 1996 Oct; 70(1):81–6

Order of application determines the interaction between phorbol esters and GTP-gamma-S in dorsal raphe neurons: evidence that the effect of 5-HT is modified upstream of the G protein Ca channel interaction. Chen Y, et al. **J Neurophysiol** 1997 May;77(5):2697–703

Single-channel properties of a G-protein-coupled inward rectifier potassium channel in brain neurons. Grigg JJ, et al. **J Neurophysiol** 1996 Jan;75(1):318–28

Selective disruption by protein kinases of G-protein-mediated Ca2+ channel modulation. Shapiro MS, et al. **J Neurophysiol** 1996 Jul;76(1):311–20

Gq/11 and PLC-beta 1 mediate the substance P-induced inhibition of an inward rectifier K+ channel in brain neurons. Takano K, et al. **J Neurophysiol** 1996 Sep; 76(3):2131–6

Dynorphin A-mediated reduction in multiple calcium currents involves a G(o) alpha-subtype G protein in rat primary afferent neurons. Wiley JW, et al. **J Neurophysiol** 1997 Mar;77(3):1338–48

Calcineurin modulates G protein-mediated inhibition of N-type calcium channels in rat sympathetic neurons. Zhu Y, et al. **J Neurophysiol** 1997 Aug;78(2):1161–5

Modulation of Ca2+ currents by various G protein-coupled receptors in sympathetic neurons of male rat pelvic ganglia. Zhu Y, et al. **J Neurophysiol** 1997 Aug;78(2):780–9

Rin, a neuron-specific and calmodulin-binding small G-protein, and Rit define a novel subfamily of ras proteins. Lee CHJ, et al. **J Neurosci** 1996 Nov 1;16(21):6784–94

Heteromultimerization of G-protein-gated inwardly rectifying K+ channel proteins GIRK1 and GIRK2 and their altered expression in weaver brain. Liao YJ, et al. **J Neurosci** 1996 Nov 15;16(22):7137–50

The intracellular loop between domains I and II of the B-type calcium channel confers aspects of G-protein sensitivity to the E-type calcium channel. Page KM, et al. **J Neurosci** 1997 Feb 15;17(4):1330–8

Mediation by protein kinases C and A of Go-linked slow responses of enteric neurons to 5-HT. Pan H, et al. **J Neurosci** 1997 Feb 1;17(3):1011–24

Impaired contractile response to beta adrenoceptor stimulation in diabetic rat hearts: alterations in beta adrenoceptors-G protein-adenylate cyclase system and phospholamban phosphorylation. Gando S, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):475–84

The quasi-irreversible nature of endothelin binding and G protein-linked signaling in cardiac myocytes. Hilal-Dandan R, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):267–73

Pretreatment with pertussis toxin differentially modulates morphine- and beta-endorphin-induced antinociception in the mouse. Tseng LF, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):39–46

Spinal morphine/clonidine antinociceptive synergism: involvement of G proteins and N-type voltage-dependent calcium channels. Wei ZY, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1392–407

Facilitation of T-type calcium current in bullfrog atrial cells: voltage-dependent relief of a G protein inhibitory tone. Alvarez JL, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):321–34

G(o)-2 protein mediates the reduction in Ca2+ currents by somatostatin in cultured ovine somatotrophs. Chen C, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):21–9

Receptors couple to L-type calcium channels via distinct Go proteins in rat neuroendocrine cell lines. Degtiar VE, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):321–33

Exotoxin-insensitive G proteins mediate synaptically evoked muscarinic sodium current in rabbit sympathetic neurones. Delmas P, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):627–40

G protein-dependent inhibition of L-type Ca2+ currents by acetylcholine in mouse pancreatic B-cells. Gilon P, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):65–76

G-protein modulation of N-type calcium channel gating current in human embryonic kidney cells (HEK 293). Jones LP, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):601–10

Role of Rho proteins in carbachol-induced contractions in intact and permeabilized guinea-pig intestinal smooth muscle. Otto B, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):317–29

Thermodynamic parameters of opioid binding in the presence and absence of G-protein coupling. Fábián G, et al. **J Recept Signal Transduct Res** 1996 May-Jul; 16(3-4):151–68

The role of guanine nucleotide binding proteins in hamsters with myocardial hypertrophy. Nakamura K, et al. **J Recept Signal Transduct Res** 1996 May-Jul;

16(3–4):225–42
Differential targeting and retention of G protein–coupled receptors in polarized epithelial cells. Wozniak M, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):373–83 (15 ref.)
G proteins and endothelium–dependent relaxations. Boulanger CM, et al. **J Vasc Res** 1997 May–Jun; 34(3):175–85 (101 ref.)
G proteins and phospholipase C mediate thrombin–induced generation of plasminogen activator inhibitor–1 from vascular smooth muscle cells. Ren S, et al. **J Vasc Res** 1997 Mar–Apr;34(2):82–9
A novel 39–kilodalton membrane protein binds GTP in polyomavirus–transformed cells. Bauer PH, et al. **J Virol** 1997 May;71(5):4128–32
The G alpha protein GL2 alpha improves the ability to detect the subthreshold expressions of receptors linked to phospholipase C in Xenopus oocytes. Yamashita S, et al. **Jpn J Physiol** 1997 Feb;47(1):67–72
G proteins, hypertension, and coronary heart disease––novel findings and hypotheses. Siffert W. **Kidney Blood Press Res** 1996;19(2):71–80 (90 ref.)
The pathway connecting m2 receptors to the nucleus involves small GTP–binding proteins acting on divergent MAP kinase cascades. Gutkind JS, et al. **Life Sci** 1997; 60(13–14):999–1006 (19 ref.)
Role of m1 receptor–G protein coupling in cell proliferation in the prostate. Luthin GR, et al. **Life Sci** 1997; 60(13–14):963–8
Regulation of phospholipase C and D activities by small molecular weight G proteins and muscarinic receptors. Schmidt M, et al. **Life Sci** 1997;60(13–14):1093–100
Evidence for a recycling role for Rab7 in regulating a late step in endocytosis and in retention of lysosomal enzymes in Dictyostelium discoideum. Buczynski G, et al. **Mol Biol Cell** 1997 Jul;8(7):1343–60
Role of Dictyostelium racE in cytokinesis: mutational analysis and localization studies by use of green fluorescent protein. Larochelle DA, et al. **Mol Biol Cell** 1997 May; 8(5):935–44
Mss4 does not function as an exchange factor for Rab in endoplasmic reticulum to Golgi transport. Nuoffer C, et al. **Mol Biol Cell** 1997 Jul;8(7):1305–16
G proteins, adenylyl cyclase and related phosphoproteins in the developing rat heart. Bartel S, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:31–8
The guanine nucleotide–binding regulatory proteins (G proteins) in myocardium with ischemia. Ohyanagi M, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:153–8 (58 ref.)
Rho family GTPases and neuronal growth cone remodelling: relationship between increased complexity induced by Cdc42Hs, Rac1, and acetylcholine and collapse induced by RhoA and lysophosphatidic acid. Kozma R, et al. **Mol Cell Biol** 1997 Mar;17(3):1201–11
Signaling through mitogen–activated protein kinase and Rac/Rho does not duplicate the effects of activated Ras on skeletal myogenesis. Ramocki MB, et al. **Mol Cell Biol** 1997 Jul;17(7):3547–55
Rac regulation of transformation, gene expression, and actin organization by multiple, PAK–independent pathways. Westwick JK, et al. **Mol Cell Biol** 1997 Mar;17(3):1324–35
1,25(OH)2–vitamin D3 stimulation of phospholipases C and D in muscle cells involves extracellular calcium and a pertussis–sensitive G protein. Morelli S, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):207–11
Identification of a new G–protein–linked receptor for growth hormone secretagogues. Pong SS, et al. **Mol Endocrinol** 1996 Jan;10(1):57–61
The G protein beta subunit Gpb1 of Schizosaccharomyces pombe is a negative regulator of sexual development. Kim DU, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):20–32
The mu–opioid receptor down–regulates differently from the delta–opioid receptor: requirement of a high affinity receptor/G protein complex formation. Chakrabarti S, et al. **Mol Pharmacol** 1997 Jul;52(1):105–13
Carboxyl–terminal mutations of Gq alpha and Gs alpha that alter the fidelity of receptor activation. Conklin BR, et al. **Mol Pharmacol** 1996 Oct;50(4):885–90
Direct evidence for functional coupling of the vasoactive intestinal peptide receptor to Gi3 in native lung membranes. Diehl NL, et al. **Mol Pharmacol** 1996 Sep;50(3):624–30
Role of G proteins in alpha1–adrenergic inhibition of the beta–adrenergically activated chloride current in cardiac myocytes. Hool LC, et al. **Mol Pharmacol** 1997 May; 51(5):853–60
Opioid mu, delta, and kappa receptor–induced activation of phospholipase C–beta 3 and inhibition of adenylyl cyclase is mediated by Gi2 and G(o) in smooth muscle. Murthy KS, et al. **Mol Pharmacol** 1996 Oct;50(4):870–7
Regulation of human neuronal calcium channels by G protein betagamma subunits expressed in human embryonic kidney 293 cells. Shekter LR, et al. **Mol Pharmacol** 1997 Aug; 52(2):282–91
Colloquium on signaling and molecular structure in pharmacology (La Jolla, California, March 11–12, 1997). Taylor P, et al. **Mol Pharmacol** 1997 Jul;52(1):1–5
Rab3A is essential for mossy fibre long–term potentiation in the hippocampus. Castillo PE, et al. **Nature** 1997 Aug 7;388(6642):590–3
Calcium channels. Integration hot–spot gets hotter [news; comment] Dunlap K. **Nature** 1997 Jan 30;385(6615):394–5, 397. Comment on: Nature 1997 Jan 30;385(6615):442–6. Comment on: Nature 1997 Jan 30;385(6615):446–50.
The small GTP–binding protein Rab3A regulates a late step in synaptic vesicle fusion. Geppert M, et al. **Nature** 1997 Jun 19;387(6635):810–4
The role of RhoA in tissue polarity and Frizzled signalling. Strutt DI, et al. **Nature** 1997 May 15;387(6630):292–5
Signalling properties of lysophosphatidic acid in primary human skin fibroblasts: role of pertussis toxin–sensitive GTP–binding proteins. Pietruck F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan;355(1):1–7
G–protein–coupled receptors in normal human erythroid progenitor cells. Porzig H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):11–20
A role for Rho in receptor– and G protein–stimulated phospholipase C. Reduction in phosphatidylinositol 4,5–bisphosphate by Clostridium difficile toxin B. Schmidt M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):87–94
Modulatory effects of Gs–coupled excitatory opioid receptor functions on opioid analgesia, tolerance, and dependence. Crain SM, et al. **Neurochem Res** 1996 Nov;21(11):1347–51 (59 ref.)
Neurotransmitter receptor/G–protein mediated signal transduction in Alzheimer's disease brain. Cowburn RF, et al. **Neurodegeneration** 1996 Dec;5(4):483–8 (37 ref.)
alpha–Latrotoxin stimulates exocytosis by the interaction with a neuronal G–protein–coupled receptor. Krasnoperov VG, et al. **Neuron** 1997 Jun;18(6):925–37
Persistent sodium currents through brain sodium channels induced by G protein betagamma subunits. Ma JY, et al. **Neuron** 1997 Aug;19(2):443–52
Functional effects of the mouse weaver mutation on G protein–gated inwardly rectifying K+ channels. Slesinger PA, et al. **Neuron** 1996 Feb;16(2):321–31
Function of Rab3 GDP–GTP exchange. Südhof TC. **Neuron** 1997 Apr;18(4):519–22 (22 ref.)
Multiple structural elements in voltage–dependent Ca2+ channels support their inhibition by G proteins. Zhang JF, et al. **Neuron** 1996 Nov;17(5):991–1003
A regulator of G–protein signaling in olfactory receptor neurons. Bruch RC, et al. **Neuroreport** 1996 Nov 25; 7(18):2941–4
Role of Gq alpha in insulin–stimulated glucose uptake by C6 glioma cells. Singh SP, et al. **Neuroreport** 1997 Jul 7; 8(9–10):2359–63
Possible involvement of G–proteins in the regulation of striatal dopamine D2 receptor affinity by cholecystokinin octapeptide. Li XM, et al. **Neurosci Lett** 1997 Jun 13; 228(3):171–4
G protein specificity of the muscarine–induced increase in an inward rectifier potassium current in AtT–20 cells. Kozasa T, et al. **Neurosci Res** 1996 Nov;26(3):289–97
Localization of a G–protein–coupled inwardly rectifying K+ channel, CIR, in the rat brain. Iizuka M, et al. **Neuroscience** 1997 Mar;77(1):1–13
Effect of hippocampal sympathetic ingrowth and cholinergic denervation on hippocampal phospholipase C activity and G–protein function. Kolasa K, et al. **Neuroscience** 1997 Mar;77(1):111–20
Bidirectional regulation of neuronal potassium currents by the G–protein activator aluminum fluoride as a function of intracellular calcium concentration. Matzel LD, et al. **Neuroscience** 1996 Oct;74(4):1175–85
An immunocytochemical study on the distribution of two G–protein–gated inward rectifier potassium channels (GIRK2 and GIRK4) in the adult rat brain. Murer G, et al. **Neuroscience** 1997 Sep;80(2):345–57
Complement 5a controls motility of murine microglial cells in vitro via activation of an inhibitory G–protein and the rearrangement of the actin cytoskeleton. Nolte C, et al. **Neuroscience** 1996 Aug;73(4):1091–107
Association of the Rho family small GTP–binding proteins with Rho GDP dissociation inhibitor (Rho GDI) in Saccharomyces cerevisiae. Koch G, et al. **Oncogene** 1997 Jul 24;15(4):417–22
Rho regulates association of both the ERM family and vinculin with the plasma membrane in MDCK cells. Kotani H, et al. **Oncogene** 1997 Apr 10;14(14):1705–13
Cooperative transformation of NIH3T3 cells by G alpha12 and Rac1. Tolkacheva T, et al. **Oncogene** 1997 Aug 7; 15(6):727–35
A role for the small GTPase Rac in polyomavirus middle–T antigen–mediated activation of the serum response element and in cell transformation. Urich M, et al. **Oncogene** 1997 Mar 13;14(10):1235–41
Inwardly rectifying K+ currents of alveolar type II cells isolated from fetal guinea–pig lung: regulation by G protein– and Mg2+–dependent pathways. Monaghan AS, et al. **Pflugers Arch** 1997 Jan;433(3):294–303
Role of G–proteins in the regulation of organic osmolyte efflux from isolated rat renal inner medullary collecting duct cells. Ruhfus B, et al. **Pflugers Arch** 1996 Nov–Dec; 433(1–2):35–41
Endotoxin tolerance impairs a pertussis–toxin–sensitive G–protein regulating tumour necrosis factor release by macrophages from tumour–bearing rats. Altavilla D, et al. **Pharmacol Res** 1996 Mar;33(3):203–9
G–proteins in guinea pig airway smooth muscle: identification and functional involvement. Joshi S, et al. **Pharmacol Res** 1996 Mar;33(3):195–202
Rho small G protein and cytoskeletal control. Takai Y, et al. **Princess Takamatsu Symp** 1994;24:338–50 (64 ref.)
On the molecular basis and regulation of cellular capacitative calcium entry: roles for Trp proteins. Birnbaumer L, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15195–202 (63 ref.)
Control of channel activity through a unique amino acid residue of a G protein–gated inwardly rectifying K+ channel subunit. Chan KW, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14193–8
RGS4 and GAIP are GTPase–activating proteins for Gq alpha and block activation of phospholipase C beta by gamma–thio–GTP–Gq alpha. Hepler JR, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):428–32
Cytosolic Na+ controls and epithelial Na+ channel via the Go guanine nucleotide–binding regulatory protein. Komwatana P, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8107–11
A homolog of the mammalian GTPase Rab2 is present in Arabidopsis and is expressed predominantly in pollen grains and seedlings. Moore I, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):762–7
Calexcitin: a signaling protein that binds calcium and GTP, inhibits potassium channels, and enhances membrane excitability. Nelson TJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13808–13
Normal cerebellar development but susceptibility to seizures in mice lacking G protein–coupled, inwardly rectifying K+ channel GIRK2. Signorini S, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):923–7
The role of G–protein coupled receptor kinases in the regulation of muscarinic cholinergic receptors. Hosey MM, et al. **Prog Brain Res** 1996;109:169–79 (64 ref.)
G–proteins and beta–adrenergic stimulation of adenylate cyclase activity in the diabetic rat prostate. Carmena MJ, et al. **Prostate** 1997 Sep 15;33(1):46–54
Requirement of CDC42 for Salmonella–induced cytoskeletal and nuclear responses. Chen LM, et al. **Science** 1996 Dec 20;274(5295):2115–8
RAC regulation of actin polymerization and proliferation by a pathway distinct from Jun kinase [published erratum appears in Science 1997 Apr 11;276(5310):185] Joneson T, et al. **Science** 1996 Nov 22;274(5291):1374–6
Vascular system defects and impaired cell chemokinesis as a result of Galpha13 deficiency. Offermanns S, et al. **Science** 1997 Jan 24;275(5299):533–6
Throttles and dampers: controlling the engine of membrane fusion [see comments] Rothman JE, et al. **Science** 1997 May 23;276(5316):1212–3. Comment in: Science 1997 May 23;276(5316):1255–8.
D2L, D2S, and D3 dopamine receptors stably transfected into NG108–15 cells couple to a voltage–dependent potassium current via distinct G protein mechanisms. Liu LX, et al. **Synapse** 1996 Oct;24(2):156–64
Signaling through G proteins in platelets: to the integrins and beyond. Brass LF, et al. **Thromb Haemost** 1997 Jul; 78(1):581–9 (98 ref.)
Dark adaptation in vertebrate photoreceptors. Fain GL, et al. **Trends Neurosci** 1996 Nov;19(11):502–7 (84 ref.)
Endocytosis and recycling of G protein–coupled receptors. Koenig JA, et al. **Trends Pharmacol Sci** 1997 Aug; 18(8):276–87 (59 ref.)
Rab proteins in gastric parietal cells: evidence for the membrane recycling hypothesis. Calhoun BC, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):1–8 (46 ref.)
[G proteins–phosphoinositide pathways in hypertension] Hu SJ, et al. **Sheng Li Ko Hsueh Chin Chan** 1996 Jan;27(1):31–6 (18 ref.) (Eng. Abstr.) **(Chi)**
[Activation of Rap1, antagonist to ras, by Crk–C3G] Hattori S, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1414–21 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Analysis of the cellular functions of the small GTP–binding protein rho p21 with Clostridium botulinum C3 exoenzyme] Saito Y. **Nippon Yakurigaku Zasshi** 1997 Jan;109(1):13–7 (Eng. Abstr.) **(Jpn)**
[Regulation of cytoskeleton and cell adhesion by small GTPases] Kaibuchi K. **Seikagaku** 1997 Jan;69(1):16–29 (46 ref.) **(Jpn)**
[Modulation of inwardly rectifying K+ channels by G–protein] Nukada T. **Seikagaku** 1996 Sep;68(9):1554–9 (18 ref.) **(Jpn)**
[Role of G protein in physiopathology and treatment of affective disturbances] Ozawa H, et al. **Seishin Shinkeigaku Zasshi** 1996;98(11):920–9 (16 ref.) **(Jpn)**
[Rab3A and neurotransmitter release] Fujita Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):364–70 (28 ref.) **(Jpn)**
[The Rho1 small GTP–binding protein in cell cycle control in Saccharomyces cerevisiae] Imamura H, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1891–8 (27 ref.) **(Jpn)**
[The role of G–proteins and second messenger systems in the plasticity of the avoidance reflex in the snail] Grinkevich LN, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):886–92 (Eng. Abstr.) **(Rus)**

G SUITS

Application of USAF G–suit technology for clinical orthostatic hypotension: a case study. Elizondo LL, et al. **Aviat Space Environ Med** 1996 Apr;67(4):344–50

G SUITS

Extended-coverage-bladder G-suits can provide improved G-tolerance and high Gz foot pain. Paul MA.
Aviat Space Environ Med 1996 Mar;67(3):253-5

A new tool to measure pressure under burn garments. Mann R, et al. **J Burn Care Rehabil** 1997 Mar-Apr;18(2):160-3; discussion 159

Pneumatic compression or aspirin prophylaxis against thromboembolism in total hip arthroplasty. Lachiewicz PF, et al. **J South Orthop Assoc** 1996 Winter;5(4):272-80

Treatment of orthostatic intolerance with inflatable abdominal band [letter] Tanaka H, et al. **Lancet** 1997 Jan 18;349(9046):175

ECONOMICS

Thromboembolic prophylaxis in moderate-risk patients undergoing elective abdominal surgery: decision and cost-effectiveness analyses. Mamdani MM, et al.
Pharmacotherapy 1996 Nov-Dec;16(6):1111-27

STANDARDS

Influence of a reduced G-suit pressure schedule on G-duration tolerance using enhanced G-protection ensembles. Krock LP, et al. **Aviat Space Environ Med** 1997 May;68(5):403-9

Do custom-fitted pressure garments provide adequate pressure? Mann R, et al. **J Burn Care Rehabil** 1997 May-Jun;18(3):247-9

UTILIZATION

MAST 96. Chang AK, et al. **J Emerg Med** 1996 Jul-Aug; 14(4):419-24

GABA

see related
GABA AGENTS
RECEPTORS, GABA

Characterization of 5'-proximal sequence of mouse GABA transporter gene (GAT-1). Fei J, et al. **Cell Res** 1997 Jun; 7(1):61-7

ADMINISTRATION & DOSAGE

Intrathalamic implants of GABA-releasing polymer matrices reduce motor impairments in rats with excitotoxically lesioned striata. Rozas G, et al. **Exp Neurol** 1996 Dec; 142(2):323-30

Effect of continuous infusion of GABA and baclofen on gastric secretion in anaesthetised rats. Goel RK, et al.
Indian J Exp Biol 1996 Oct;34(10):978-81

[The effect of multiple administrations of GABA and bicuculline into the rat neostriatum on the realization of a food-acquisition habit] Iakimovskiĭ AF.
Zh Vyssh Nerv Deiat Im I P Pavlova 1996 May-Jun; 46(3):521-6 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

[Neuropharmacology of a new model of partial epilepsy: GABA withdrawal syndrome] Brailowski S.
Gac Med Mex 1994 Jul-Aug;130(4):259-64 (Eng. Abstr.) **(Spa)**

AGONISTS see GABA AGONISTS

ANALOGS & DERIVATIVES

A quantitative study of daytime sleepiness induced by carbamazepine and add-on vigabatrin in epileptic patients. Bonanni E, et al. **Acta Neurol Scand** 1997 Apr;95(4):193-6

Psychotic and severe behavioural reactions with vigabatrin: a review [see comments] Ferrie CD, et al.
Acta Neurol Scand 1996 Jan;93(1):1-8 (73 ref.). Comment in: Acta Neurol Scand 1997 Mar;95(3):189-90.

Fatal hepatotoxicity in a child treated with vigabatrin [letter] Kellermann K, et al. **Acta Neurol Scand** 1996 May; 93(5):380-1

EEG changes induced by vigabatrin monotherapy in focal epilepsy. Marciani MG, et al. **Acta Neurol Scand** 1997 Feb; 95(2):115-20

Influence of vigabatrin on cognitive performances and behaviour in patients with drug-resistant epilepsy. Provinciali L, et al. **Acta Neurol Scand** 1996 Jul;94(1):12-8

Vigabatrin and psychosis: is there a true correlation? [letter; comment] Veggiotti P, et al. **Acta Neurol Scand** 1997 Mar; 95(3):189-90. Comment on: Acta Neurol Scand 1996 Jan;93(1):1-8.

Vigabatrin causes profound reduction in serum alanine transaminase activity. Ryan MF, et al.
Ann Clin Biochem 1996 May;33 (Pt 3):257-8

Synthesis of GABA-valproic acid derivatives and evaluation of their anticonvulsant and antioxidant activity. Rekatas GV, et al. **Arch Pharm (Weinheim)** 1996 Aug-Sep; 329(8-9):393-8

In vitro effects of the novel anti-epileptic agent vigabatrin on alanine aminotransferase and aspartate aminotransferase activities in rat serum. Okumura H, et al.
Arzneimittelforschung 1996 May;46(5):459-62

Severe persistent visual field constriction associated with vigabatrin. Manufacturers have started several studies [letter; comment] Backstrom JT, et al. **BMJ** 1997 Jun 7; 314(7095):1694-5. Comment on: BMJ 1997 Jan 18;314(7075):180-1.

Severe persistent visual field constriction associated with vigabatrin. Patients taking vigabatrin should have regular visual field testing [letter; comment] Blackwell N, et al. **BMJ** 1997 Jun 7;314(7095):1694. Comment on: BMJ 1997 Jan 18;314(7075):180-1.

Severe persistent visual field constriction associated with vigabatrin [see comments] Eke T, et al. **BMJ** 1997 Jan 18; 314(7075):180-1. Comment in: BMJ 1997 Jun 7;314(7095):1693. Comment in: BMJ 1997 Jun 7;314(7095):1693-4. Comment in: BMJ 1997 Jun 7;314(7095):1694. Comment in: BMJ 1997 Jun 7;314(7095):1694-5.

Severe persistent visual field constriction associated with vigabatrin. Four possible explanations exist [letter; comment] Harding GF. **BMJ** 1997 Jun 7;314(7095):1694. Comment on: BMJ 1997 Jan 18;314(7075):180-1.

Long-term use of lamotrigine and vigabatrin in severe refractory epilepsy: audit of outcome [see comments] Walker MC, et al. **BMJ** 1996 Nov 9;313(7066):1184-5. Comment in: BMJ 1996 Nov 9;313(7066):1157-8. Comment in: BMJ 1996 Nov 9;313(7066):1158.

Severe persistent visual field constriction associated with vigabatrin. Chronic refractory epilepsy may have role in causing these unusual lesions [letter; comment] Wilson EA, et al. **BMJ** 1997 Jun 7;314(7095):1693. Comment on: BMJ 1997 Jan 18;314(7075):180-1.

Severe persistent visual field constriction associated with vigabatrin. Reaction might be dose dependent [letter; comment] Wong IC, et al. **BMJ** 1997 Jun 7; 314(7095):1693-4. Comment on: BMJ 1997 Jan 18;314(7075):180-1.

Pharmacokinetics of the S(+) and R(-) enantiomers of vigabatrin during chronic dosing in a patient with renal failure. Jacqz-Aigrain E, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):183-5

Evidence for both in vivo and in vitro interaction between vigabatrin and alanine transaminase. Richens A, et al.
Br J Clin Pharmacol 1997 Feb;43(2):163-8

Pharmacokinetics of the individual enantiomers of vigabatrin in neonates with uncontrolled seizures.
Vauzelle-Kervroëdan F, et al. **Br J Clin Pharmacol** 1996 Dec;42(6):779-81

Adrenocorticotropic hormone and vigabatrin treatment of children with infantile spasms underlying cerebral palsy. Zafeiriou DI, et al. **Brain Dev** 1996 Nov-Dec;18(6):450-2

The anti-epileptic effect of 3-aminopropylarsonate on electrically-kindled and N-methyl-D-aspartate-kindled amygdala. Abdul-Ghani AS, et al. **Brain Res** 1996 Dec 2;742(1-2):305-12

Vigabatrin. Guberman A. **Can J Neurol Sci** 1996 Nov; 23(4):S13-7

Vigabatrin in childhood epilepsy: comparable efficacy for generalized and partial seizures. Sheth RD, et al.
Clin Neuropharmacol 1996 Aug;19(4):297-304

Effects of vigabatrin on motor potentials evoked with magnetic stimulation. Mavroudakis N, et al.
Electroencephalogr Clin Neurophysiol 1997 Apr; 105(2):124-7

A double-blind, placebo-controlled study on the effect of vigabatrin on in vivo parameters of hepatic microsomal enzyme induction and on the kinetics of steroid oral contraceptives in healthy female volunteers. Bartoli A, et al. **Epilepsia** 1997 Jun;38(6):702-7

No effect of long-term vigabatrin treatment on central nervous system conduction in patients with refractory epilepsy: results of a multicenter study of somatosensory and visual evoked potentials. PMS Study Multicenter Group. Mauguière F, et al. **Epilepsia** 1997 Mar;38(3):301-8

Randomized trial comparing vigabatrin and hydrocortisone in infantile spasms due to tuberous sclerosis. Chiron C, et al. **Epilepsy Res** 1997 Jan;26(2):389-95

Vigabatrin withdrawal randomized study in children. Chiron C, et al. **Epilepsy Res** 1996 Nov;25(3):209-15

Cost analysis of epilepsy surgery and of vigabatrin treatment in patients with refractory partial epilepsy. Malmgren K, et al. **Epilepsy Res** 1996 Nov;25(3):199-207

Vigabatrin and carbamazepine have different efficacies in the prevention of status epilepticus induced neuronal damage in the hippocampus and amygdala. Pitkänen A, et al.
Epilepsy Res 1996 May;24(1):29-45

Vigabatrin vs. carbamazepine monotherapy in newly diagnosed focal epilepsy: a randomized response conditional cross-over study. Tanganelli P, et al.
Epilepsy Res 1996 Nov;25(3):257-62

Vigabatrin and behaviour disorders: a retrospective survey. Thomas L, et al. **Epilepsy Res** 1996 Sep;25(1):21-7

Low-dose vigabatrin (gamma-vinyl GABA)-induced damage in the immature rat brain. Sidhu RS, et al.
Exp Neurol 1997 Apr;144(2):400-5

Neurochemical actions of vigabatrin and tiagabine alone and in combination in mouse cortex. Leach JP, et al.
Gen Pharmacol 1997 May;28(5):715-9

Seizure control: how to use the new antiepileptic drugs in older patients. Haider A, et al. **Geriatrics** 1996 Sep; 51(9):42-5 (16 ref.)

Optimizing the indication of vigabatrin in children with refractory epilepsy. Lortie A, et al. **J Child Neurol** 1997 Jun;12(4):253-9

Vigabatrin in partial seizures in children. Nabbout RC, et al. **J Child Neurol** 1997 Apr;12(3):172-7

Rapid determination of chloroprocaine and its major metabolite, 2-chloroaminobenzoic acid, in plasma by high-performance liquid chromatography. Janicki PK, et al. **J Chromatogr B Biomed Appl** 1996 Jan 26;675(2):336-41

Vigabatrin-induced gingival overgrowth. Katz J, et al.
J Clin Periodontol 1997 Mar;24(3):180-2

Plasma concentrations of vigabatrin in epileptic patients. Sánchez-Alcaraz A, et al. **J Clin Pharm Ther** 1996 Dec; 21(6):393-8

Seizures in a boy with succinic semialdehyde dehydrogenase deficiency treated with vigabatrin (gamma-vinyl-GABA). Matern D, et al. **J Inherit Metab Dis** 1996;19(3):313-8

High-resolution X-ray crystallography reveals precise binding interactions between human nonpancreatic secreted phospholipase A2 and a highly potent inhibitor (FPL67047XX). Cha SS, et al. **J Med Chem** 1996 Sep 27; 39(20):3878-81

Human brain gamma-aminobutyric acid levels and seizure control following initiation of vigabatrin therapy. Petroff OA, et al. **J Neurochem** 1996 Dec;67(6):2399-404

Metabolic precursors and compartmentation of cerebral GABA in vigabatrin-treated rats. Preece NE, et al.
J Neurochem 1996 Oct;67(4):1718-25

The effects of clonazepam and vigabatrin in hyperekplexia. Tijssen MA, et al. **J Neurol Sci** 1997 Jul;149(1):63-7

Vigabatrin as first line therapy in infantile spasms: review of seven patients. Kwong L. **J Paediatr Child Health** 1997 Apr;33(2):121-4

Evaluation of gabapentin and S-(+)-3-isobutylgaba in a rat model of postoperative pain. Field MJ, et al.
J Pharmacol Exp Ther 1997 Sep;282(3):1242-6

Vigabatrin overdose [letter] Davie MB, et al.
Med J Aust 1996 Oct 7;165(7):403

Measurement of pantothenic acid and hopantenic acid by gas chromatography-mass spectroscopy. Banno K.
Methods Enzymol 1997;279:213-9 (16 ref.)

The rate of turnover of cortical GABA from [1-13C]glucose is reduced in rats treated with the GABA-transaminase inhibitor vigabatrin (gamma-vinyl GABA). Manor D, et al. **Neurochem Res** 1996 Sep;21(9):1031-41

New drugs and vagal stimulation for treatment of epilepsy--the Israeli experience. Neufeld MY, et al.
Neurol Neurochir Pol 1996;30 Suppl 2:113-20 (23 ref.)

Human brain GABA levels rise rapidly after initiation of vigabatrin therapy. Petroff OA, et al. **Neurology** 1996 Dec; 47(6):1567-71

Improvement of stiff-man syndrome with vigabatrin. Prevett MC, et al. **Neurology** 1997 Apr;48(4):1133-4

The neuroprotective effects of gamma-vinyl GABA in transient global ischemia: a morphological study with early and delayed evaluations. Shuaib A, et al. **Neurosci Lett** 1996 Feb 2;204(1-2):1-4

Activity-dependent transport of GABA analogues into specific cell types demonstrated at high resolution using a novel immunocytochemical strategy. Pow DV, et al.
Neuroscience 1996 Aug;73(4):1129-43

The inhibitory effects on sexual behavior and ambulatory activity of the mixed GABAA/GABAB agonist progabide are differentially blocked by GABA receptor antagonists. Agmo A, et al. **Psychopharmacology (Berl)** 1997 Jan; 129(1):27-34

Multicentre clinical evaluation of vigabatrin (Sabril) in mild to moderate partial epilepsies. French Neurologists Sabril Study Group. Arzimanoglou AA, et al. **Seizure** 1997 Jun; 6(3):225-31

Vigabatrin dosing during haemodialysis. Bachmann D, et al.
Seizure 1996 Sep;5(3):239-42

A double-blind, placebo-controlled crossover study of vigabatrin 2 g/day and 3 g/day in uncontrolled partial seizures. Beran RG, et al. **Seizure** 1996 Dec;5(4):259-65

A naturalistic study of the use of vigabatrin, lamotrigine and gabapentin in adults with learning disabilities. Bhaumik S, et al. **Seizure** 1997 Apr;6(2):127-33

A cost minimization study comparing vigabatrin, lamotrigine and gabapentin for the treatment of intractable partial epilepsy [see comments] Hughes D, et al. **Seizure** 1996 Jun; 5(2):89-95 (38 ref.). Comment in: Seizure 1996 Sep;5(3):247-8.

If comparisons can be odious, so can assumptions [letter; comment] Jackson D, et al. **Seizure** 1996 Sep;5(3):247-8. Comment on: Seizure 1996 Jun;5(2):89-95.

Obstructive sleep apnoea following rapid weight gain secondary to treatment with vigabatrin (Sabril). Lambert MV, et al. **Seizure** 1997 Jun;6(3):233-5

Effects of tiagabine and vigabatrin on GABA uptake into primary cultures of rat cortical astrocytes. Leach JP, et al. **Seizure** 1996 Sep;5(3):229-34

An audit of the new antiepileptic drugs in clinical neurological practice. McDonnell GV, et al. **Seizure** 1996 Jun;5(2):127-30

A survey comparing lamotrigine and vigabatrin in everyday clinical practice. Schapel G, et al. **Seizure** 1996 Dec; 5(4):267-70

The effects of vigabatrin on attention, concentration and mood: an investigation in healthy volunteers. Thomas L, et al. **Seizure** 1996 Sep;5(3):205-8

Vigabatrin. Shields WD, et al. **Semin Pediatr Neurol** 1997 Mar;4(1):43-50 (37 ref.)

GABAergic attenuation of cocaine-induced dopamine release and locomotor activity. Dewey SL, et al.
Synapse 1997 Apr;25(4):393-8

Teratogenic effects of vigabatrin in TO mouse fetuses. Abdulrazzaq YM, et al. **Teratology** 1997 Mar;55(3):165-76

A limited sampling method for the estimation of vigabatrin maximum plasma concentration and area under the curve. Tammara V, et al. **Ther Drug Monit** 1997 Feb;19(1):79–82

[The neuroprotective effect of GABA-ergic substances in cerebral ischemia] Kulinskiĭ VI, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):56–8 (Eng. Abstr.) **(Rus)**

[The enhancement of human thermal resistance by the single use of bemitil and fenibut] Makarov VI, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):68–71 (Eng. Abstr.) **(Rus)**

[A comparative study of the permeability across the hemato-encephalic barrier and of the effect on cerebral blood flow of the new neurotropic agent calcium ketohomopantothenate and of pantogam] Nasybullina NM, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):58–61 (Eng. Abstr.) **(Rus)**

[Fenibut and fenazepam as potential protectors of pregnancy with a GABA-ergic mechanism of action] Sergeev PV, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):33–6 (Eng. Abstr.) **(Rus)**

[Experimental bases of the use of pharmacologic agents aimed at higher heat resistance of humans as means of individual protection] Makarov VI, et al. **Med Tr Prom Ekol** 1997; (5):35–8 (Eng. Abstr.) **(Rus)**

[Treatment of refractory infantile epilepsy with vigabatrin in a series of 55 patients] López-Valdés E, et al. **Rev Neurol** 1996 Oct;24(134):1255–7 (Eng. Abstr.) **(Spa)**

[New antiepileptic drugs] Padró L, et al. **Rev Neurol** 1997 Feb;25(138):291–4 (26 ref.) **(Spa)**

ANALYSIS

The raccoon lateral cervical nucleus: mediolateral organization of GABA-positive and GABA-negative neurons and fibers. Broman J, et al. **Anat Embryol (Berl)** 1996 May;193(5):463–74

Astrocytic processes compensate for the apparent lack of GABA transporters in the axon terminals of cerebellar Purkinje cells. Ribak CE, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):379–90

Coexistence of choline acetyltransferase and GABA in axon terminals in the dorsal cap of the rat inferior olive. Caffé AR, et al. **Brain Res** 1996 Jun 10;724(1):136–40

Ultrastructural relationships between leu-enkephalin- and GABA-containing neurons differ within the hippocampal formation. Commons KG, et al. **Brain Res** 1996 Jun 10; 724(1):1–15

Electrophysiology and GABA-immunocytochemistry in the vestibular nuclei of normal (C57BL/6J) and Leaner mutant mice. Grüsser-Cornehls U, et al. **Brain Res** 1995 Dec 12; 703(1–2):51–62

Nitric oxide synthase immunoreactivity distinguishes a sub-population of GABA-immunoreactive neurons in the ventrobasal complex of the cat. Meng XW, et al. **Brain Res** 1996 Jul 22;728(1):111–5

Cryopreserved GABAergic neurons in cultures of rat cerebral cortex and mesencephalon: a comparative morphometric study with anti-GABA antibodies. Petite D, et al. **Brain Res** 1997 Feb 7;747(2):279–89

Colocalization of GABA and glycine in the rat dorsal column nuclei. Popratiloff A, et al. **Brain Res** 1996 Jan 15; 706(2):308–12

Distribution of GABA and glycine in the lamb nucleus of the solitary tract. Sweazey RD. **Brain Res** 1996 Oct 21; 737(1–2):275–86

Electron microscopic evidence for coexistence of leucine5-enkephalin and gamma-aminobutyric acid in a subpopulation of axon terminals in the rat locus coeruleus region. Van Bockstaele EJ, et al. **Brain Res** 1997 Jan 23; 746(1–2):171–82

Glycine-immunoreactive terminals in the rat trigeminal motor nucleus: light- and electron-microscopic analysis of their relationships with motoneurones and with GABA-immunoreactive terminals. Yang HW, et al. **Brain Res** 1997 Feb 28;749(2):301–19

Time course of appearance of GABA and GABA receptors during retinal regeneration in the adult newt. Chiba C, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):204–10

Butyrylcholinesterase-positive cells of the developing chicken retina that are non-cholinergic and GABA-positive. Reiss Y, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):62–72

The distribution of GABA and glycine immunostaining in the cochlear nucleus of the mustached bat (Pteronotus parnellii). Kemmer M, et al. **Cell Tissue Res** 1997 Mar; 287(3):487–506

Stiff-man syndrome: possible autoimmune etiology targeted against GABA-ergic cells. Warich-Kirches M, et al. **Clin Neuropathol** 1997 Jul–Aug;16(4):214–9

Glutamate-enriched inputs from the mesopontine tegmentum to the entopeduncular nucleus in the rat. Clarke NP, et al. **Eur J Neurosci** 1996 Jul;8(7):1363–76

Sex differentiation of rat hippocampal GABAergic neurons. Reisert I, et al. **Eur J Neurosci** 1996 Aug;8(8):1718–24

Distribution of GABAergic elements postsynaptic to ventroposteromedial thalamic projections in layer IV of rat barrel cortex. Staiger JF, et al. **Eur J Neurosci** 1996 Nov;8(11):2273–85

Pharmacologically induced neural plasticity in the prefrontal cortex of adult gerbils (Meriones unguiculatus). Dawirs RR, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):117–23

Genetic variation in the morphology of the septo-hippocampal cholinergic and GABAergic system in mice. I. Cholinergic and GABAergic markers. Schwegler H, et al. **Hippocampus** 1996;6(2):136–48

Dopaminergic and GABAergic interneurons of the olfactory bulb are derived from the neonatal subventricular zone. Betarbet R, et al. **Int J Dev Neurosci** 1996 Nov; 14(7–8):921–30

Immunohistochemical studies of localization and co-localization of glutamate, aspartate and GABA in the anterior thalamic nuclei, retrosplenial granular cortex, thalamic reticular nucleus and mammillary nuclei of the rat. Gonzalo-Ruiz A, et al. **J Chem Neuroanat** 1996 Dec; 12(2):77–84

Retinal and non-retinal inputs upon retinopetal RMA neurons in the lamprey: a light and electron microscopic study combining HRP axonal tracing and GABA immunocytochemistry. Rio JP, et al. **J Chem Neuroanat** 1996 Nov;12(1):51–70

Differential number of glycine- and GABA-immunopositive neurons and terminals in the deep cerebellar nuclei of normal and Purkinje cell degeneration mutant mice. Bäurle J, et al. **J Comp Neurol** 1997 Jun 16;382(4):443–58

Three classes of inhibitory amino acid terminals in the cochlear nucleus of the guinea pig. Juiz JM, et al. **J Comp Neurol** 1996 Sep 9;373(1):11–26

GABAergic and glycinergic neurons projecting to the trigeminal motor nucleus: a double labeling study in the rat. Li YQ, et al. **J Comp Neurol** 1996 Sep 30;373(4):498–510

Quantitative aspects of synaptogenesis in the rat barrel field cortex with special reference to GABA circuitry. Micheva KD, et al. **J Comp Neurol** 1996 Sep 23;373(3):340–54

Vesicle shape and amino acids in synaptic inputs to phrenic motoneurons: do all inputs contain either glutamate or GABA? Murphy SM, et al. **J Comp Neurol** 1996 Sep 16; 373(2):200–19

Metabolic and neurochemical plasticity of gamma-aminobutyric acid-immunoreactive neurons in the adult macaque striate cortex following monocular impulse blockade: quantitative electron microscopic analysis. Nie F, et al. **J Comp Neurol** 1996 Jul 1;370(3):350–66

Qualitative and quantitative analysis of glycine- and GABA-immunoreactive nerve terminals on motoneuron cell bodies in the cat spinal cord: a postembedding electron microscopic study. Ornung G, et al. **J Comp Neurol** 1996 Feb 12;365(3):413–26

GABA- and glycine-immunoreactive projections from the superior olivary complex to the cochlear nucleus in guinea pig. Ostapoff EM, et al. **J Comp Neurol** 1997 May 19; 381(4):500–12

Development of cholinergic and GABAergic neurons in the rat medial septum: effect of target removal in early postnatal development. Plaschke M, et al. **J Comp Neurol** 1997 Mar 24;379(4):467–81

Distribution of GABA, glycine, and glutamate immunoreactivities in the vestibular nuclear complex of the frog. Reichenberger I, et al. **J Comp Neurol** 1997 Jan 13;377(2):149–64

Pre- and postsynaptic sites for serotonin modulation of GABA-containing neurons in the shell region of the rat nucleus accumbens. Van Bockstaele EJ, et al. **J Comp Neurol** 1996 Jul 15;371(1):116–28

A bioluminescent gamma-aminobutyrate assay for monitoring its release from inhibitory nerve endings. Israël M, et al. **J Neurochem** 1996 Dec;67(6):2624–7

Time course of alpha-fluorinated valproic acid in mouse brain and serum and its effect on synaptosomal gamma-aminobutyric acid levels in comparison to valproic acid. Tang W, et al. **J Pharmacol Exp Ther** 1997 Sep; 282(3):1163–72

A technique for detecting GABA in the human brain with PRESS localization and optimized refocusing spectral editing radiofrequency pulses. Keltner JR, et al. **Magn Reson Med** 1996 Sep;36(3):458–61

In vivo detection of GABA in human brain using a localized double-quantum filter technique. Keltner JR, et al. **Magn Reson Med** 1997 Mar;37(3):366–71

Imaging of radiocarbon-labelled tracer molecules in neural tissue using accelerator mass spectrometry. Hedges RE, et al. **Nature** 1996 Oct 31;383(6603):823–6

Alpha isoform of calcium-calmodulin dependent protein kinase II (CAM II kinase-alpha) restricted to excitatory synapses in the CA1 region of rat hippocampus. Liu X, et al. **Neuroreport** 1997 Apr 14;8(6):1475–9

Dense GABAergic input on somata of parvalbumin-immunoreactive GABAergic neurons in the hippocampus of the mouse. Fukuda T, et al. **Neurosci Res** 1996 Oct;26(2):181–94

The synaptic interrelationships between primary afferent terminals, cuneothalamic relay neurons and GABA-immunoreactive boutons in the rat cuneate nucleus. Lue JH, et al. **Neurosci Res** 1996 Mar;24(4):363–71

Direct evidence of an extensive GABAergic innervation of the spinal dorsal horn by fibres descending from the rostral ventromedial medulla. Antal M, et al. **Neuroscience** 1996 Jul;73(2):509–18

Glutamate- and GABA-immunoreactive synapses on sympathetic preganglionic neurons caudal to a spinal cord transection in rats. Llewellyn-Smith IJ, et al. **Neuroscience** 1997 Oct;80(4):1225–35

Lactation-induced plasticity in the supraoptic nucleus augments axodendritic and axosomatic GABAergic and glutamatergic synapses: an ultrastructural analysis using the disector method. El Majdoubi M, et al. **Neuroscience** 1997 Oct;80(4):1137–47

GABA-ergic and substance P-ergic double-innervation to noradrenergic neurons in the rat locus coeruleus. Tamiya R, et al. **Osaka City Med J** 1994 Jul;40(1):1–11

GABAergic feedforward projections from the inferior colliculus to the medial geniculate body. Winer JA, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8005–10

The antidepressant drug phenelzine produces antianxiety effects in the plus-maze and increases in rat brain GABA. Paslawski T, et al. **Psychopharmacology (Berl)** 1996 Sep; 127(1):19–24

Increased interaction of dopamine-immunoreactive varicosities with GABA neurons of rat medial prefrontal cortex occurs during the postweanling period. Benes FM, et al. **Synapse** 1996 Aug;23(4):237–45

Expression of GABA in the fetal, postnatal, and adult human retinas: an immunohistochemical study. Nag TC, et al. **Vis Neurosci** 1997 May-Jun;14(3):425–32

[Collateral projections of gamma-aminobutyric acid positive neurons from the lateral superior nucleus to the cochlea and cochlear nucleus in guinea pigs] Qiu J, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(5):279–81 (Eng. Abstr.) **(Chi)**

ANTAGONISTS & INHIBITORS see GABA ANTAGONISTS

BIOSYNTHESIS

Afferent input from peripheral chemoreceptors in response to hypoxia and amino acid neurotransmitter generation in the medulla. Kazemi H, et al. **Adv Exp Med Biol** 1996; 410:365–9

Ontogeny of GABA-immunoreactive cells in the primate cerebellar cortex: comparison with somatostatin-immunoreactivity. Yamashita A, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):215–22

GABA and GABA-A receptors are maximally expressed in association with cone synaptogenesis in neonatal rabbit retina. Mitchell CK, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):63–71

In vivo modulation of benzodiazepine receptor function after inhibition of endogenous gamma-aminobutyyric acid synthesis. Bottlaender M, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):13–7

Expression pattern of glutamate decarboxylase (GAD) in the developing cortex of the embryonic chick brain. Lundgren P, et al. **Int J Dev Neurosci** 1997 Feb;15(1):127–37

Basal expression and induction of glutamate decarboxylase and GABA in excitatory granule cells of the rat and monkey hippocampal dentate gyrus. Sloviter RS, et al. **J Comp Neurol** 1996 Sep 30;373(4):593–618

gamma-Hydroxybutyrate conversion into GABA induces displacement of GABAB binding that is blocked by valproate and ethosuximide. Hechler V, et al. **J Pharmacol Exp Ther** 1997 May;281(2):753–60

Glutamine stimulates gamma-aminobutyric acid synthesis in synaptosomes but other putative astrocyte-to-neuron shuttle substrates do not. Battaglioli G, et al. **Neurosci Lett** 1996 May 10;209(2):129–33

Influence of sanguinarine on the GABA synthesizing enzyme glutamate decarboxylase in vitro. Netopilova M, et al. **Pharmazie** 1996 Aug;51(8):589–91

[The importance of vitamin B 6 for development of the infant. Human medical and animal experiment studies] Gerster H. **Z Ernahrungswiss** 1996 Dec;35(4):309–17 (50 ref.) (Eng. Abstr.) **(Ger)**

BLOOD

Elevated plasma gamma-aminobutyric acid (GABA) levels in individuals with either Prader-Willi syndrome or Angelman syndrome. Ebert MH, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter;9(1):75–80

Plasma levels of gamma-aminobutyric acid and panic disorder. Goddard AW, et al. **Psychiatry Res** 1996 Jul 31; 63(2–3):223–5

[Changes in the level of gamma-aminobutyric acid in the blood of children with thyroid diseases] Myshunina TM, et al. **Fiziol Zh** 1997;43(1–2):64–9 (Eng. Abstr.) **(Ukr)**

CEREBROSPINAL FLUID

gamma-Aminobutyric acid concentrations in the cerebrospinal fluid of newborn infants determined by high performance liquid chromatography. Giroux JD, et al. **Acta Paediatr** 1996 May;85(5):595–7

Cerebrospinal fluid gamma-aminobutyric acid and glutamate values in dogs with epilepsy. Podell M, et al. **Am J Vet Res** 1997 May;58(5):451–6

Cerebrospinal fluid and plasma gamma-aminobutyric acid in Alzheimer's disease. Weiner MF, et al. **Biol Psychiatry** 1996 Nov 1;40(9):933–4

Cerebrospinal fluid concentrations of glutamate and GABA during perinatal cerebral hypoxia-ischemia and seizures. Cataltepe O, et al. **Brain Res** 1996 Feb 19;709(2):326–30

Pyridoxine-responsive West syndrome and gamma-aminobutyric acid [letter] Kurlemann G, et al. **Eur J Pediatr** 1997 Feb;156(2):158–9

Levels of free gamma-aminobutyric acid and other neuroactive amino acids in cerebrospinal fluid of patients with neurological disorders] Doroshenko Ye M, et al. **Ukr Biokhim Zh** 1996 Sep–Oct;68(5):89–94

GABA

CHEMISTRY

gamma-Aminobutyric acid: a novel tetragonal phase. Dobson AJ, et al. **Acta Crystallogr C** 1996 Dec 15;52 (Pt 12):3075–8

GABAergic neurons in mammalian thalamus: a marker of thalamic complexity? Arcelli P, et al. **Brain Res Bull** 1997; 42(1):27–37

DRUG EFFECTS

GABAB receptor-mediated inhibition of tetrodotoxin-resistant GABA release in rodent hippocampal CA1 pyramidal cells. Jarolimek W, et al. **J Neurosci** 1997 Feb 1;17(3):1025–32

GENETICS

Expression of the Bacillus subtilis gabP gene is regulated independently in response to nitrogen and amino acid availability. Ferson AE, et al. **Mol Microbiol** 1996 Nov; 22(4):693–701

IMMUNOLOGY

Immunocytochemical localization of polyamines in the tiger salamander retina. Valentino TL, et al. **Brain Res** 1996 Mar 25;713(1–2):278–85

Cellular localization of 5-HT1B receptor mRNA in the rat olfactory tubercle: do GABAergic neurons express the 5-HT1B gene? Cloëz-Tayarani I, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):337–42

Regulation of calcium-binding protein immunoreactivity in GABA neurons of macaque primary visual cortex. Carder RK, et al. **Cereb Cortex** 1996 Mar-Apr;6(2):271–87

Distribution of GABA-immunoreactive nerve cells in the bed nucleus of the stria terminalis in male and female rats. Stefanova N, et al. **Eur J Histochem** 1997;41(1):23–8

Colocalization of calbindin D-28k, calretinin, and GABA immunoreactivities in neurons of the human temporal cortex. del Río MR, et al. **J Comp Neurol** 1996 Jun 3; 369(3):472–82

Electron microscopy of immunoreactivity patterns for glutamate and gamma-aminobutyric acid in synaptic glomeruli of the feline spinal trigeminal nucleus (Subnucleus Caudalis). Iliakis B, et al. **J Comp Neurol** 1996 Mar 11;366(3):465–77

Glutamate immunoreactivity in the tiger salamander retina differentiates between GABA-immunoreactive and g!ycine-immunoreactive amacrine cells. Yang CY. **J Neurocytol** 1996 Jul;25(7):391–403

Anti-gabaergic neuron autoantibodies in a patient with stiff-man syndrome and ataxia. Giometto B, et al. **J Neurol Sci** 1996 Nov;143(1–2):57–9

Immunocytochemical localization of GABA immunoreactivity in dentate granule cells of normal and kindled rats. Lehmann H, et al. **Neurosci Lett** 1996 Jul 5; 212(1):41–4

METABOLISM

Efflux of gamma-aminobutyric acid caused by changes in ion concentrations and cell swelling simulating the effect of cerebral ischaemia. Haugstad TS, et al. **Acta Neurochir (Wien)** 1997;139(5):453–63

Release of taurine and its effects on release of neurotransmitter amino acids in rat cerebral cortex. Kamisaki Y, et al. **Adv Exp Med Biol** 1996;403:445–54

The role of sulphydryl groups in efflux of taurine and GABA from cerebral cortical cells. Upton EL, et al. **Adv Exp Med Biol** 1996;403:409–16

Vitamin B12 enhances GABA content but reduces glutamate content in the rat suprachiasmatic nucleus. Ikeda M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R359–63

GABA release in the dorsal raphe nucleus: role in the control of REM sleep. Nitz D, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R451–5

GABA release in posterior hypothalamus across sleep–wake cycle. Nitz D, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1707–12

Basal and glucoprivic-induced changes in extracellular GABA in the ventral hypothalamus of Zucker rats. Specter SE, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R388–92

Benzodiazepine receptor binding and schizophrenia [letter] Verhoeff NP. **Am J Psychiatry** 1997 Oct;154(10):1480

Zinc-containing neurons are distinct from GABAergic neurons in the telencephalon of the rat. Slomianka L, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):165–74

Modulation of ischemic excitatory neurotransmitter and gamma-aminobutyric acid release during global temporary cerebral ischemia by selective neuronal nitric oxide synthase inhibition. Kahn RA, et al. **Anesth Analg** 1997 May;84(5):997–1003

Modulation of ischemic excitatory neurotransmitter and gamma-aminobutyric acid release during global temporary cerebral ischemia by local nitric oxide synthase inhibition. Kahn RA, et al. **Anesth Analg** 1997 May;84(5):1004–10

Low brain GABA level is associated with poor seizure control. Petroff OA, et al. **Ann Neurol** 1996 Dec; 40(6):908–11

Roles of GABAergic inhibition for the binaural processing of multiple sound sources in the inferior colliculus. Pollak GD. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:44–54

Elevated gamma-aminobutyric acid, glutamate, and vascular endothelial growth factor levels in the vitreous of patients with proliferative diabetic retinopathy. Ambati J, et al. **Arch Ophthalmol** 1997 Sep;115(9):1161–6

Changes induced by sex steroids in the kinetic properties of hypothalamic GABA uptake. Etchegoyen GS, et al. **Arch Physiol Biochem** 1996;104(3):287–92

Ontogeny of GABA pathway in human fetal brains. Das SK, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):544–8

Effects of chronic oral treatment with GABA-transaminase inhibitors on the GABA system in brain, liver, kidney, and plasma of the rat. Qume M, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1355–63

Carrier-mediated gamma-aminobutyric acid uptake in human spermatozoa indicating the presence of a high-affinity gamma-aminobutyric acid transport protein. Aanesen A, et al. **Biol Reprod** 1996 Apr;54(4):841–6

The effects of inhibitors of GABAergic transmission and stress on brain and plasma allopregnanolone concentrations. Barbaccia ML, et al. **Br J Pharmacol** 1997 Apr; 120(8):1582–8

Pharmacologically distinct GABAB receptors that mediate inhibition of GABA and glutamate release in human neocortex. Bonanno G, et al. **Br J Pharmacol** 1997 Jan; 120(1):60–4

GABA, glutamate and substance P-like immunoreactivity release: effects of novel GABAB antagonists. Teoh H, et al. **Br J Pharmacol** 1996 Jul;118(5):1153–60

1-(3-(9H-carbazol-9-yl)-1-propyl)-4-(2-methoxyphenyl) -4-piperidinol, a novel subtype selective inhibitor of the mouse type II GABA-transporter. Thomsen C, et al. **Br J Pharmacol** 1997 Mar;120(6):983–5

Distinct but overlapping populations of commissural and GABAergic neurons in the dorsal nucleus of the little skate, Raja erinacea. Duman CH, et al. **Brain Behav Evol** 1997; 49(2):99–109

Co-localization of vasoactive intestinal polypeptide, gamma-aminobutyric acid and choline acetyltransferase in neocortical interneurons of the adult rat. Bayraktar T, et al. **Brain Res** 1997 May 23;757(2):209–17

The neurotensin receptor antagonist SR 48692 decreases extracellular striatal GABA in rats. Chapman MA, et al. **Brain Res** 1996 Aug 5;729(1):124–6

Stimulatory effect of arachidonic acid on the release of GABA in matrix-enriched areas from the rat striatum. Chéramy A, et al. **Brain Res** 1996 Dec 2;742(1–2):185–94

Synaptic terminals immunolabelled against glutamate in the lobus parolfactorius of domestic chicks (Gallus domesticus) in relation to afferents from the archistriatum. Csillag A, et al. **Brain Res** 1997 Mar 7;750(1–2):171–9

Involvement of cholinergic neurons in the release of dopamine elicited by stimulation of mu-opioid receptors in striatum. Dourmap N, et al. **Brain Res** 1997 Feb 28; 749(2):295–300

The sexually dimorphic nucleus of the hypothalamus contains GABA neurons in rat and man. Gao B, et al. **Brain Res** 1996 Dec 2;742(1–2):163–71

Biphasic modulation of GABA release by nitric oxide in the hippocampus of freely moving rats in vivo. Getting SJ, et al. **Brain Res** 1996 Apr 22;717(1–2):196–9

Dopaminergic inhibition of striatal GABA release after 6-hydroxydopamine. Harsing LG Jr, et al. **Brain Res** 1996 Oct 28;738(1):142–5

Heterogeneity in the neuropeptide Y-containing neurons of the rat arcuate nucleus: GABAergic and non-GABAergic subpopulations. Horvath TL, et al. **Brain Res** 1997 May 9;756(1–2):283–6

The novel antiepileptic drug levetiracetam (ucb L059) induces alterations in GABA metabolism and turnover in discrete areas of rat brain and reduces neuronal activity in substantia nigra pars reticulata. Löscher W, et al. **Brain Res** 1996 Oct 7;735(2):208–16

Gonadal hormones alter hypothalamic GABA and glutamate levels. Luine VN, et al. **Brain Res** 1997 Jan 30;747(1):165–8

Regulation of GABA release via NMDA and 5-HT1A receptors in guinea pig dentate gyrus. Matsuyama S, et al. **Brain Res** 1997 Jun 27;761(1):105–12

Transforming growth factor alpha differentially affects GABAergic and cholinergic neurons in rat medial septal cell cultures. Mazzoni IE, et al. **Brain Res** 1996 Jan 22; 707(1):88–99

Microdialysis monitoring of variations in extracellular levels of serotonin, GABA and excitatory amino acids in the frontal cortex of awake rats in response to a single peripheral or central administration of dexfenfluramine. Rocher C, et al. **Brain Res** 1996 Oct 21;737(1–2):221–30

Effect of morphine on dynorphin B and GABA release in the basal ganglia of rats. You ZB, et al. **Brain Res** 1996 Feb 26;710(1–2):241–8

Evoked GABA release is not mediated by N-type VDCC in the frontal cortex of awake rats: effects of neomycin. Martínez-Martos JM, et al. **Brain Res Bull** 1997;43(5):441–5

GABA metabolism during status epilepticus in the developing rat brain. Sankar R, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):60–4

Immunoreactivity for GABA plasma membrane transporter, GAT-1, in the developing rat cerebral cortex: transient presence in the somata of neocortical and hippocampal neurons. Yan XX, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):1–19

Nitric oxide-evoked [3H] gamma-aminobutyric acid release is mediated by two distinct release mechanisms. Ohkuma S, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):137–44

Regional distribution of GABA transporter 1 (GAT1) mRNA in the rat brain: comparison with glutamic acid decarboxylase67 (GAD67) mRNA localization. Yasumi M, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):205–18

Influence of two naturally occurring abietane monocarboxylic acids (resin acids) and a chlorinated derivative on release of the inhibitory neurotransmitter gamma-aminobutyric acid from trout brain synaptosomes. Zheng J, et al. **Bull Environ Contam Toxicol** 1996 Jan; 56(1):114–20

Immunohistochemical localization of GABA in chameleon retina (Chamaleo Chamaleo). Quesada A, et al. **Cell Biol Int** 1996 Jun;20(6):395–400

GABA uptake and phenotypic characteristics of the subcommissural ependymocytes of the semi-desertic rodent, Meriones shawi: correlation with serotoninergic innervation. Laalaoui A, et al. **Cell Tissue Res** 1996 Sep; 285(3):435–43

Accumulation of gamma-aminobutyric acid in diabetic rat retinal Müller cells evidenced by electron microscopic immunocytochemistry. Ishikawa A, et al. **Curr Eye Res** 1996 Sep;15(9):958–64

Localization of gamma-aminobutyric acid and glutamic acid decarboxylase in the pancreas of the nonobese diabetic mouse. Saravia-Fernandez F, et al. **Endocrinology** 1996 Aug;137(8):3497–506

Expression of gamma-aminobutyric acid and gonadotropin-releasing hormone during neuronal migration through the olfactory system. Tobet SA, et al. **Endocrinology** 1996 Dec;137(12):5415–20

Long-term cognitive and EEG effects of tiagabine in drug-resistant partial epilepsy. Kälviäinen R, et al. **Epilepsy Res** 1996 Nov;25(3):291–7

Biphasic response of spinal GABAergic neurons after a lumbar rhizotomy in the adult rat. Dumoulin A, et al. **Eur J Neurosci** 1996 Dec;8(12):2553–63

Neurons in the rat occipital cortex co-expressing the substance P-receptor and GABA: a comparison between in vivo and organotypic cultures. Echevarría D, et al. **Eur J Neurosci** 1997 Jul;9(7):1530–5

Selective excitatory amino acid uptake in glutamatergic nerve terminals and in glia in the rat striatum: quantitative electron microscopic immunocytochemistry of exogenous (D)-aspartate and endogenous glutamate and GABA. Gundersen V, et al. **Eur J Neurosci** 1996 Apr;8(4):758–65

The influence of nitric oxide on perigeniculate GABAergic cell activity in the anaesthetized cat. Rivadulla C, et al. **Eur J Neurosci** 1996 Dec;8(12):2459–66

GABA and glycine in synaptic glomeruli of the rat spinal dorsal horn. Todd AJ. **Eur J Neurosci** 1996 Dec; 8(12):2492–8

Status epilepticus causes selective regional damage and loss of GABAergic neurons in the rat amygdaloid complex. Tuunanen J, et al. **Eur J Neurosci** 1996 Dec;8(12):2711–25

Induction of dopaminergic neurotransmitter phenotype in rat embryonic cerebrocortex by the synergistic action of neurotrophins and dopamine. Zhou J, et al. **Eur J Neurosci** 1996 Nov;8(11):2328–39

5-HT2A receptor antagonists inhibit potassium-stimulated gamma-aminobutyric acid release in rat frontal cortex. Cozzi NV, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):25–31

Inhibition of [3H] gamma-aminobutyric acid release by kainate receptor activation in rat hippocampal synaptosomes. Cunha RA, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):167–72

The vigilance promoting drug modafinil increases dopamine release in the rat nucleus accumbens via the involvement of a local GABAergic mechanism. Ferraro L, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):33–9

Activation of the cannabinoid receptor by delta 9-tetrahydrocannabinol reduces gamma-aminobutyric acid uptake in the globus pallidus. Maneuf YP, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):161–4

Binding characteristics of gamma-hydroxybutyric acid as a weak but selective GABAB receptor agonist. Mathivet P, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):67–75

Role of peroxynitrite in [3H] gamma-aminobutyric acid release evoked by nitric oxide and its mechanism. Ohkuma S, et al. **Eur J Pharmacol** 1996 Apr 22;301(1–3):179–88

Evidence for release of glutamic acid, aspartic acid and substance P but not gamma-aminobutyric acid from primary afferent fibres in rat spinal cord. Teoh H, et al. **Eur J Pharmacol** 1996 Apr 29;302(1–3):27–36

Distribution of glutamate receptor subunit GluR1 and GABA in human cerebral neocortex: a double immunolabelling and electron microscopic study. He Y, et al. **Exp Brain Res** 1996 Nov;112(1):147–57

The ultrastructure of the olivary pretectal nucleus in rats. A tracing and GABA immunohistochemical study. Klooster J, et al. **Exp Brain Res** 1997 Mar;114(1):51–62

Ultrastructural subtypes of glutamate-immunoreactive terminals on rat trigeminal motoneurones and their relationships with GABA-immunoreactive terminals. Yang HW, et al. **Exp Brain Res** 1997 Mar;114(1):99–116

Electron microscopy of colocalization of GABA and tyrosine hydroxylase expression in rat olfactory bulb transplants. Goheen Robillard B, et al. **Exp Neurol** 1997 Feb; 143(2):219–30

Physiological regulation of gaba uptake by rat pyloric antral mucosa. Varro A, et al. **Exp Physiol** 1996 Jan;81(1):151–4

Neurochemical actions of vigabatrin and tiagabine alone and in combination in mouse cortex. Leach JP, et al. **Gen Pharmacol** 1997 May;28(5):715–9

The GABA/GAD innervation within the inner spiral bundle in the mouse cochlea. Nitecka LM, et al. **Hear Res** 1996 Sep 15;99(1-2):91-105

Testicular gamma-aminobutyric acid and circulating androgens in Syrian and Djungarian hamsters during sexual development. Frungieri MB, et al. **Int J Androl** 1996 Jun; 19(3):164-70

Influence of photoinhibition on GABA and glutamic acid levels, and on glutamate decarboxylase activity in the testis and epididymis of the golden hamster. Frungieri MB, et al. **Int J Androl** 1996 Jun;19(3):171-8

Enhanced GABA release in cell-damaging conditions in the adult and developing mouse hippocampus. Saransaari P, et al. **Int J Dev Neurosci** 1997 Apr;15(2):163-74

Observation of metabolic changes in chronic schizophrenia after neuroleptic treatment by in vivo hydrogen magnetic resonance spectroscopy. Choe BY, et al. **Invest Radiol** 1996 Jun;31(6):345-52

Exchange of glutamate and gamma-aminobutyrate in a Lactobacillus strain. Higuchi T, et al. **J Bacteriol** 1997 May; 179(10):3362-4

Tyrosine 140 of the gamma-aminobutyric acid transporter GAT-1 plays a critical role in neurotransmitter recognition. Bismuth Y, et al. **J Biol Chem** 1997 Jun 27; 272(26):16096-102

Determination of glutamate decarboxylase by high-performance liquid chromatography. Rossetti V, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):63-7

Immunohistochemical investigation of gamma-aminobutyric acid ontogeny and transient expression in the central nervous system of Xenopus laevis tadpoles. Barale E, et al. **J Comp Neurol** 1996 Apr 29;368(2):285-94

Development of cholinergic and GABAergic neurons in the rat medial septum: different onset of choline acetyltransferase and glutamate decarboxylase mRNA expression. Bender R, et al. **J Comp Neurol** 1996 Aug 19; 372(2):204-14

Sources of GABAergic input to the inferior colliculus of the rat. González-Hernández T, et al. **J Comp Neurol** 1996 Aug 19;372(2):309-26

Multiple gamma-Aminobutyric acid plasma membrane transporters (GAT-1, GAT-2, GAT-3) in the rat retina. Johnson J, et al. **J Comp Neurol** 1996 Nov 11;375(2):212-24

Distribution of GABAergic and glycinergic premotor neurons projecting to the facial and hypoglossal nuclei in the rat. Li YQ, et al. **J Comp Neurol** 1997 Feb 10; 378(2):283-94

Distribution of calretinin-immunoreactivity in the rat entorhinal cortex: coexistence with GABA. Miettinen M, et al. **J Comp Neurol** 1997 Feb 17;378(3):363-78

gamma-Aminobutyric acid and glycine in the baboon cochlear nuclei: an immunocytochemical colocalization study with reference to interspecies differences in inhibitory systems. Moore JK, et al. **J Comp Neurol** 1996 Jun 10; 369(4):497-519

GABAergic inputs to the nucleus rotundus (pulvinar inferior) of the pigeon (columba livia). Mpodozis J, et al. **J Comp Neurol** 1996 Oct 14;374(2):204-22

GABA-immunoreactive boutons contact identified OFF and ON cells in the nucleus raphe magnus. Skinner K, et al. **J Comp Neurol** 1997 Feb 10;378(2):196-204

Compound synapses within the GABAergic innervation of the auditory inner hair cells in the adolescent mouse. Sobkowicz HM, et al. **J Comp Neurol** 1997 Jan 20; 377(3):423-42

Immunohistochemical localization of neurotransmitters utilized by neurons in the rostral interstitial nucleus of the medial longitudinal fasciculus (riMLF) that project to the oculomotor and trochlear nuclei in the cat. Spencer RF, et al. **J Comp Neurol** 1996 Feb 26;366(1):134-48

Ultrastructural quantitative analysis of glutamatergic and GABAergic synaptic terminals in the phrenic nucleus after spinal cord injury. Tai Q, et al. **J Comp Neurol** 1996 Aug 26;372(3):343-55

GABA immunoreactivity in hypothalamic neurons and growth cones in early development in vitro before synapse formation. van den Pol AN. **J Comp Neurol** 1997 Jun 30; 383(2):178-88

Initial development of gamma-aminobutyric acid immunoreactivity in the human cerebral cortex. Zecevic N, et al. **J Comp Neurol** 1997 Apr 21;380(4):495-506

Localisation of ionotropic glutamate receptor subunits, and gamma-aminobutyric acid (GABA) in the monkey amygdala--a double immunolabelling and electron microscopic study. He Y, et al. **J Hirnforsch** 1996; 37(4):479-503

Distribution of glycine and GABA immunoreactivities in the cochlear nucleus: quantitative patterns of putative inhibitory inputs on three cell types. Juiz JM, et al. **J Hirnforsch** 1996;37(4):561-74

Silver intensification of immunocolloidal gold on ultrathin plastic sections applied to the study of the neuronal distribution of GABA and glycine. Juiz JM, et al. **J Hirnforsch** 1996;37(1):51-6

Peptide expression in GABAergic neurons in rat suprachiasmatic nucleus in comparison with other forebrain structures: a double labeling in situ hybridization study. Tanaka M, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1231-7

Glutamic acid decarboxylase--gene to antigen to disease. Lernmark A. **J Intern Med** 1996 Nov;240(5):259-77 (85 ref.)

Helix-inducing alpha-aminoisobutyric acid in opioid mimetic deltorphin C analogues. Bryant SD, et al. **J Med Chem** 1997 Aug 1;40(16):2579-87

Interactions between dopamine and GABA in the control of ambulatory activity. Agmo A, et al. **J Neural Transm** 1996;103(8-9):925-34

The uptake of gamma-aminobutyric acid and glutamate by synaptosomes from the visual cortex of albino and pigmented rabbits. Burbridge T, et al. **J Neural Transm** 1996;103(3):299-305

Effect of age on synthesis of the GABAergic steroids 5-alpha-pregnane-3,20-dione and 5-alpha-pregnane-3-alpha-ol-20-one in rat cortex in vitro. Stuerenburg HJ, et al. **J Neural Transm** 1997; 104(2-3):249-57

Glutamate receptor activation induces carrier mediated release of endogenous GABA from rat striatal slices. Wang J, et al. **J Neural Transm** 1996;103(1-2):31-43

Regulation of GABA level in rat brain synaptosomes: fluxes through enzymes of the GABA shunt and effects of glutamate, calcium, and ketone bodies. Erecińska M, et al. **J Neurochem** 1996 Dec;67(6):2325-34

Human brain gamma-aminobutyric acid levels and seizure control following initiation of vigabatrin therapy. Petroff OA, et al. **J Neurochem** 1996 Dec;67(6):2399-404

Metabolic precursors and compartmentation of cerebral GABA in vigabatrin-treated rats. Preece NE, et al. **J Neurochem** 1996 Oct;67(4):1718-25

Muscarinic modulation of striatal dopamine, glutamate, and GABA release, as measured with in vivo microdialysis. Smolders I, et al. **J Neurochem** 1997 May;68(5):1942-8

Adenosine modulation of calcium currents and presynaptic inhibition of GABA release in suprachiasmatic and arcuate nucleus neurons. Chen G, et al. **J Neurophysiol** 1997 Jun; 77(6):3035-47

A novel type of GABAergic interneuron connecting the input and the output regions of the hippocampus. Ceranik K, et al. **J Neurosci** 1997 Jul 15;17(14):5380-94

Multiple NPY receptors coexist in pre- and postsynaptic sites: inhibition of GABA release in isolated self-innervating SCN neurons. Chen G, et al. **J Neurosci** 1996 Dec 1;16(23):7711-24

GABAergic neurons in barrel cortex show strong, whisker-dependent metabolic activation during normal behavior. McCasland JS, et al. **J Neurosci** 1997 Jul 15; 17(14):5509-27

Cholecystokinin increases GABA release by inhibiting a resting K+ conductance in hippocampal interneurons. Miller KK, et al. **J Neurosci** 1997 Jul 1;17(13):4994-5003

The 5-HT3 receptor is present in different subpopulations of GABAergic neurons in the rat telencephalon. Morales M, et al. **J Neurosci** 1997 May 1;17(9):3157-67

GABA activity mediating cytosolic Ca2+ rises in developing neurons is modulated by cAMP-dependent signal transduction. Obrietan K, et al. **J Neurosci** 1997 Jun 15; 17(12):4785-99

Brain-derived neurotrophic factor mediates the activity-dependent regulation of inhibition in neocortical cultures. Rutherford LC, et al. **J Neurosci** 1997 Jun 15; 17(12):4527-35

Release of endogenous glutamate and gamma-aminobutyric acid from rat striatal tissue slices measured by an improved method of high performance liquid chromatography with electrochemical detection. Phillips JB Jr, et al. **J Neurosci Methods** 1997 Aug 22;75(2):207-14

Quantitative changes of GABA-immunoreactive cells in the hindlimb representation of the rat somatosensory cortex after 14-day hindlimb unloading by tail suspension. D'Amelio F, et al. **J Neurosci Res** 1996 Jun 15;44(6):532-9

GABAergic neurons in rat nuclei of solitary tracts receive inhibitory-type synapses from amygdaloid efferents lacking detectable GABA-immunoreactivity. Pickel VM, et al. **J Neurosci Res** 1996 Jun 1;44(5):446-58

3-Nitropropionic acid exacerbates [3H]GABA release evoked by glucose deprivation in rat striatal slices. Boireau A, et al. **J Pharm Pharmacol** 1996 Jan;48(1):85-9

gamma-Hydroxybutyrate conversion into GABA induces displacement of GABAB binding that is blocked by valproate and ethosuximide. Hechler V, et al. **J Pharmacol Exp Ther** 1997 May;281(2):753-60

Protracted treatment with diazepam reduces benzodiazepine1 receptor-mediated potentiation of gamma-aminobutyric acid-induced currents in dissociated rat hippocampal neurons. Itier V, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1092-9

Molecular determinants of NMDA receptor function in GABAergic neurones of rat forebrain. Plant T, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):47-63

Cyclic AMP-regulated GABA release at inhibitory synapses in rat cerebellar slices. Marty A, et al. **J Physiol Paris** 1996; 90(5-6):327-8

Ultrastructural characteristics of glutamatergic and GABAergic terminals in cat lamina IX before and after spinal cord injury. Tai Q, et al. **J Spinal Cord Med** 1997 Jul;20(3):311-8

Dopaminergic and GABAergic retinal cell populations in mammals. Nguyen-Legros J, et al. **Microsc Res Tech** 1997 Jan 1;36(1):26-42 (140 ref.)

Attenuation of excitotoxic cell swelling and GABA release by the GABA transport inhibitor SKF 89976A. Zeevalk GD, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):27-36

Circadian rhythms. Time to get excited by GABA [news; comment] Colwell CS. **Nature** 1997 Jun 5;387(6633):554-5 . Comment on: Nature 1997 Jun 5;387(6633):598-603.

Cortical neurones with Ca2+ permeable AMPA/kainate channels display distinct receptor immunoreactivity and are GABAergic. Yin Hz, et al. **Neurobiol Dis** 1994 Nov; 1(1-2):43-9

GABAA receptor-mediated K(+)-evoked GABA release from globus pallidus--analysis using microdialysis. Hashimoto T, et al. **Neurochem Int** 1997 Mar;30(3):247-52

Cholecystokinin-GABA interactions in rodent cortex: analyses of cholecystokinin effects on K(+)- and L-glutamate-induced release of [3H]GABA from rat cortical slices and cultured mouse cortical neurones. Hickling YM, et al. **Neurochem Int** 1997 Feb;30(2):171-9

Effect of K+- and kainate-mediated depolarization on survival and functional maturation of GABAergic and glutamatergic neurons in cultures of dissociated mouse cerebellum. Damgaard I, et al. **Neurochem Res** 1996 Feb; 21(2):267-75

Evidence for an in vivo and in vitro modulation of endogenous cortical GABA release by alpha-glycerylphosphorylcholine. Ferraro L, et al. **Neurochem Res** 1996 May;21(5):547-52

The rate of turnover of cortical GABA from [1-13C]glucose is reduced in rats treated with the GABA-transaminase inhibitor vigabatrin (gamma-vinyl GABA). Manor D, et al. **Neurochem Res** 1996 Sep;21(9):1031-41

Comparative effects of the GABA uptake inhibitors, tiagabine and NNC-711, on extracellular GABA levels in the rat ventrolateral thalamus. Richards DA, et al. **Neurochem Res** 1996 Feb;21(2):135-40

Nigericin-induced Na+/H+ and K+/H+ exchange in synaptosomes: effect on [3H]GABA release. Rodríguez R, et al. **Neurochem Res** 1996 Aug;21(8):889-95

M1 acetylcholine receptor stimulation increases the extracellular concentrations of glutamate and GABA in the medial prefrontal cortex of the rat. Sanz B, et al. **Neurochem Res** 1997 Mar;22(3):281-6

Expression of estrogen and progesterone receptors in glutamate and GABA neurons of the pubertal female monkey hypothalamus. Thind KK, et al. **Neuroendocrinology** 1997 May;65(5):314-24

Bacterial endotoxin inhibits LHRH secretion following the increased release of hypothalamic GABA levels. Different effects on amino acid neurotransmitter release. Feleder C, et al. **Neuroimmunomodulation** 1996 Nov-Dec;3(6):342-51

Human brain GABA levels rise rapidly after initiation of vigabatrin therapy. Petroff OA, et al. **Neurology** 1996 Dec; 47(6):1567-71

Glucocorticoids and anabolic/androgenic steroids inhibit the synthesis of GABAergic steroids in rat cortex. Stürenburg HJ, et al. **Neuropsychobiology** 1997;35(3):143-6

Local anaesthetics potentiate GABA-mediated Cl- currents by inhibiting GABA uptake. Nordmark J, et al. **Neuroreport** 1997 Jan 20;8(2):465-8

Neurokinin A affects the tubero-hypophyseal gabaergic system. Pisera D, et al. **Neuroreport** 1996 Sep 2; 7(13):2236-40

GABA transamination regulates neuronal glutamate content in the retina. Pow DV, et al. **Neuroreport** 1996 Nov 4; 7(15-17):2683-6

Development of GABA and calcium binding proteins immunoreactivity in the rat hippocampus following neonatal anoxia. Dell'Anna E, et al. **Neurosci Lett** 1996 Jun 21;211(2):93-6

5-HT1D-like receptors inhibit the release of endogenously formed [3H]GABA in human, but not in rabbit, neocortex. Feuerstein TJ, et al. **Neurosci Lett** 1996 May 17; 209(3):210-4

GABA metabolism controls inhibition efficacy in the mammalian CNS. Golan H, et al. **Neurosci Lett** 1996 Oct 11;217(1):25-8

Local administration of morphine decreases the extracellular level of GABA in the periaqueductal gray matter of freely moving rats. Stiller CO, et al. **Neurosci Lett** 1996 May 17; 209(3):165-8

Anoxia blocks the presynaptic control of GABA release at inhibitory terminals in the rat hippocampus. Avoli M, et al. **Neuroscience** 1996 Dec;75(4):999-1002

Nicotinic receptor mediates spontaneous GABA release in the rat dorsal motor nucleus of the vagus. Bertolino M, et al. **Neuroscience** 1997 Aug;79(3):671-81

Synaptic effects of identified interneurons innervating both interneurons and pyramidal cells in the rat hippocampus. Cobb SR, et al. **Neuroscience** 1997 Aug;79(3):629-48

A ventrodorsal GABA gradient in the embryonic retina prior to expression of glutamate decarboxylase. Eliasson MJ, et al. **Neuroscience** 1997 Aug;79(3):863-9

GABA-like immunoreactivity in the thalamic nucleus submedius of the cat. Ericson AC, et al. **Neuroscience** 1997 Jan;76(2):491-502

Evidence for a differential cholecystokinin-B and -A receptor regulation of GABA release in the rat nucleus accumbens mediated via dopaminergic and cholinergic mechanisms. Ferraro L, et al. **Neuroscience** 1996 Aug; 73(4):941-50

Histamine H3 receptor activation selectively inhibits dopamine D1 receptor-dependent [3H]GABA release from depolarization-stimulated slices of rat substantia nigra pars reticulata. Garcia M, et al. **Neuroscience** 1997 Sep; 80(1):241-9

Loss of GABA-immunoreactivity in the spinal dorsal horn

of rats with peripheral nerve injury and promotion of recovery by adrenal medullary grafts. Ibuki T, et al. **Neuroscience** 1997 Feb;76(3):845–58

The mu–opioid receptor (MOR1) is mainly restricted to neurons that do not contain GABA or glycine in the superficial dorsal horn of the rat spinal cord. Kemp T, et al. **Neuroscience** 1996 Dec;75(4):1231–8

GABA release in the locus coeruleus as a function of sleep/wake state. Nitz D, et al. **Neuroscience** 1997 Jun; 78(3):795–801

Ultrastructural localization of calbindin–D28k and GABA in the matrix compartment of the rat caudate–putamen nuclei. Pickel VM, et al. **Neuroscience** 1996 Mar; 71(1):167–78

1–methyl–4–phenyl–1,2,3,6–tetrahydropyridine–induced dopaminergic denervation potentiates gabaergic inhibition in the mouse neostriatum in vitro. Schlösser B, et al. **Neuroscience** 1996 Apr;71(3):691–700

Blockade of capsaicin–induced reduction of GABA–immunoreactivity by spantide in cat spinal superficial dorsal horn. Wei F, et al. **Neuroscience** 1996 Mar;71(1):277–83

Gabaergic transmission and tyrosine hydroxylase expression in the nigral dopaminergic neurons: an in vivo study using a reversible ischemia model of rats. Yamada K, et al. **Neuroscience** 1996 Aug;73(3):783–9

Release of gamma–aminobutyric acid in the dorsal horn and suppression of tactile allodynia by spinal cord stimulation in mononeuropathic rats. Stiller CO, et al. **Neurosurgery** 1996 Aug;39(2):367–74; discussion 374–5

Effect of glucose and 2–deoxyglucose on hypothalamic GABA release in lactating rats. Grossman BM, et al. **Physiol Behav** 1997 Feb;61(2):169–73

Cleft palate and decreased brain gamma–aminobutyric acid in mice lacking the 67–kDa isoform of glutamic acid decarboxylase. Asada H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6496–9

A protein factor that inhibits ATP–dependent glutamate and gamma–aminobutyric acid accumulation into synaptic vesicles: purification and initial characterization. Ozkan ED, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):4137–42

The distribution of noradrenaline, serotonin and gamma–aminobutyric acid in the monkey nucleus accumbens. Ikemoto K, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Nov; 20(8):1403–12

The secretory trypsin inhibitor like–peptide, PEC–60 increases dopamine D2 receptor agonist induced inhibition of GABA release in the dorsolateral neostriatum of the awake freely moving rat. An in vivo microdialysis study. Rimondini R, et al. **Regul Pept** 1996 Feb 22;61(2):111–7

Effects of tiagabine and vigabatrin on GABA uptake into primary cultures of rat cortical astrocytes. Leach JP, et al. **Seizure** 1996 Sep;5(3):229–34

Post–embedding immunogold labeling of gamma–aminobutyric acid in lamina II of the spinal trigeminal subnucleus pars caudalis: I. A qualitative study. Almond JR, et al. **Synapse** 1996 Sep;24(1):39–47

Effects of AMPA and D1 receptor activation on striatal and nigral GABA efflux. Byrnes EM, et al. **Synapse** 1997 Jul; 26(3):254–68

Activation of muscarinic receptors stimulates GABA release in the rat globus pallidus. Kayadjanian N, et al. **Synapse** 1997 Jun;26(2):131–9

In vivo characterization of extracellular GABA release in the caudate nucleus and prefrontal cortex of the rhesus monkey. Kolachana BS, et al. **Synapse** 1997 Mar; 25(3):285–92

Modulation of GABAergic transmission in the globus pallidus by the synthetic cannabinoid WIN 55,212–2. Maneuf YP, et al. **Synapse** 1996 Apr;22(4):382–5

Electrical stimulation of the substantia nigra reticulata: detection of neuronal extracellular GABA in the ventromedial thalamus and its regulatory mechanism using microdialysis in awake rats. Timmerman W, et al. **Synapse** 1997 May;26(1):62–71

Electron microscopic study of GABAergic synaptic innervation of nitric oxide synthase immunoreactive neurons in the dorsal raphe nucleus in the rat. Wang QP, et al. **Synapse** 1997 Jan;25(1):24–9

Neurotensin induces calcium oscillations in cultured amacrine cells. Borges S, et al. **Vis Neurosci** 1996 Mar–Apr; 13(2):311–8

Analysis of the distribution of glycine and GABA in amacrine cells of the developing rabbit retina: a comparison with the ontogeny of a functional GABA transport system in retinal neurons. Crook DK, et al. **Vis Neurosci** 1997 Jul–Aug;14(4):751–63

Calretinin in the cat retina: colocalizations with other calcium–binding proteins, GABA and glycine. Goebel DJ, et al. **Vis Neurosci** 1997 Mar–Apr;14(2):311–22

Immunocytochemical evidence for an axonal localization of GABA in the optic nerves of rabbits, rats, and cats. Rogers PC, et al. **Vis Neurosci** 1995 Nov–Dec;12(6):1143–9

[The level of gamma–aminobutyric acid in the extracellular space of the rat nucleus accumbens in the course of a nociceptive conditioned response] Saul'skaia NB, et al. **Fiziol Zh Im I M Sechenova** 1996 May–Jun;82(5–6):36–42 (Eng. Abstr.) **(Rus)**

[Enzyme activity and level of GABA–shunt substrates in rat brain during repeated exposure to hypoglycemic doses of insulin] Telushkin PK, et al. **Vopr Med Khim** 1996 Oct–Dec;42(4):306–8 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

delta–Aminolevulinic acid uptake is mediated by the gamma–aminobutyric acid–specific permease UGA4. Bermúdez Moretti M, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jun;42(4):519–23

Permeability of the blood–brain barrier to protein and [3H]GABA in intraparenchymal fetal CNS tissue grafts. Rosenstein JM. **Exp Neurol** 1996 Nov;142(1):66–79

Stimulation of [3H] GABA and beta–[3H] alanine release from rat brain slices by cis–4–aminocrotonic acid. Chebib M, et al. **J Neurochem** 1997 Feb;68(2):786–94

The vigilance promoting drug modafinil decreases GABA release in the medial preoptic area and in the posterior hypothalamus of the awake rat: possible involvement of the serotonergic 5–HT3 receptor. Ferraro L, et al. **Neurosci Lett** 1996 Dec 6;220(1):5–8

PHARMACOLOGY

Inhibition of calcium spikes by gamma–amino–butyric acid in the neurons of Lymnaea stagnalis L. Rubakhin SS, et al. **Acta Biol Hung** 1995;46(2–4):375–80

HgCl2 potentiates GABA activated currents in Lymnaea stagnalis L. neurones. Rubakhin SS, et al. **Acta Biol Hung** 1995;46(2–4):431–44

Propagated calcium modulates the calcium–dependent potassium current by the activation of GABAB receptor at the axonal branch in the type B photoreceptor of Hermissenda. Sakakibara M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:492–5

Roles of GABAergic inhibition for the binaural processing of multiple sound sources in the inferior colliculus. Pollak GD. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:44–54

Behavioral effects of 3 alpha–androstanediol. I: Modulation of sexual receptivity and promotion of GABA–stimulated chloride flux. Frye CA, et al. **Behav Brain Res** 1996 Sep; 79(1–2):109–18

Actions of the anticonvulsant agent 2–amino–4–phosphonobutyrate on the release of [3H]D–aspartate from rat forebrain slices. Sundaralingam J, et al. **Biochem Soc Trans** 1996 May;24(2):294S

In vitro capacitating effect of gamma–aminobutyric acid in ram spermatozoa. de las Heras MA, et al. **Biol Reprod** 1997 Apr;56(4):964–8

The influence of ammonia, biogenic amines and gamma–aminobutyric acid on grass silage intake in sheep. Van Os M, et al. **Br J Nutr** 1996 Sep;76(3):347–58

Interaction of positive allosteric modulators with human and Drosophila recombinant GABA receptors expressed in Xenopus laevis oocytes. Belelli D, et al. **Br J Pharmacol** 1996 Jun;118(3):563–76

Measurement of GABAA receptor function in rat cultured cerebellar granule cells by the Cytosensor microphysiometer. Brown MJ, et al. **Br J Pharmacol** 1997 May;121(1):71–6

Molecular mechanisms of benzodiazepine–induced down–regulation of GABAA receptor alpha 1 subunit protein in rat cerebellar granule cells. Brown MJ, et al. **Br J Pharmacol** 1996 Jul;118(5):1103–10

Allosteric modulation of an expressed homo–oligomeric GABA–gated chloride channel of Drosophila melanogaster. Hosie AM, et al. **Br J Pharmacol** 1996 Mar; 117(6):1229–37

Presynaptic modulation by L–glutamate and GABA of sympathetic co–transmission in rat isolated vas deferens. Kwan YW, et al. **Br J Pharmacol** 1996 Jun;118(3):755–61

Effect of SB–205384 on the decay of GABA–activated chloride currents in granule cells cultured from rat cerebellum. Meadows HJ, et al. **Br J Pharmacol** 1997 Aug; 121(7):1334–8

Heterogeneous distribution of benzodiazepine receptors among rat neostriatal neurones. Munakata M, et al. **Br J Pharmacol** 1996 Jun;118(3):820–5

Effects of gamma–aminobutyric acid (GABA) agonists and GABA uptake inhibitors on pharmacosensitive and pharmacoresistant epileptiform activity in vitro. Pfeiffer M, et al. **Br J Pharmacol** 1996 Oct;119(3):569–77

The effect of GABA stimulation on GABAA receptor subunit protein and mRNA expression in rat cultured cerebellar granule cells. Platt KP, et al. **Br J Pharmacol** 1996 Dec;119(7):1393–400

Potentiation by sevoflurane of the gamma–aminobutyric acid–induced chloride current in acutely dissociated CA1 pyramidal neurones from rat hippocampus. Wu J, et al. **Br J Pharmacol** 1996 Nov;119(5):1013–21

Muscarinic reduction of GABAergic synaptic potentials results in disinhibition of the AMPA/kainate–mediated EPSP in auditory cortex. Aramakis VB, et al. **Brain Res** 1997 May 30;758(1–2):107–17

Effects of GABA on spontaneous [Ca2+]c dynamics and electrical properties of rat adrenal chromaffin cells. Busik J, et al. **Brain Res** 1996 Nov 11;739(1–2):97–103

Heterogeneous current responses to GABA and glycine are present in post–natally cultured hippocampal neurons. Fatima–Shad K, et al. **Brain Res** 1995 Dec 18;704(2):246–55

Picrotoxin–sensitive receptors mediate gamma–aminobutyric acid–induced modulation of synaptic plasticity in rat superior cervical ganglion. González Burgos GR, et al. **Brain Res** 1997 Mar 14;751(1):148–51

Mesencephalic trigeminal neuron responses to gamma–aminobutyric acid. Hayar A, et al. **Brain Res** 1997 Apr 4;753(1):120–7

GABA–induced responses in electrophysiologically characterized neurons within the rat rostro–ventrolateral medulla in vitro. Hayar A, et al. **Brain Res** 1996 Feb 19; 709(2):173–83

Adenosine by activating A1 receptors prevents GABAA–mediated actions during hypoxia in the rat hippocampus. Lucchi R, et al. **Brain Res** 1996 Sep 2; 732(1–2):261–6

Dopamine D2, receptor–mediated modulation of the GABAergic inhibition of substantia nigra pars reticulata neurons. Martin LP, et al. **Brain Res** 1996 Aug 12; 729(2):156–69

Gonadotropin releasing hormone modulates gamma–aminobutyric acid–evoked intracellular calcium increase in immortalized hypothalamic gonadotropin releasing hormone neurons. Sun W, et al. **Brain Res** 1997 Jan 30;747(1):70–7

Local pressure application of cannabinoid agonists increases spontaneous activity of rat substantia nigra pars reticulata neurons without affecting response to iontophoretically–applied GABA. Tersigni TJ, et al. **Brain Res** 1996 Sep 16;733(2):184–92

Differences in the expression of GABA(A) receptors between functionally innervated and non–innervated granule neurons in neonatal rat cerebellar cultures. Ueno S, et al. **Brain Res** 1996 Apr 1;714(1–2):49–56

The effects of anticonvulsant drugs on NMDA–EPSP, AMPA–EPSP, and GABA–IPSP in the rat hippocampus. Ko GY, et al. **Brain Res Bull** 1997;42(4):297–302

GABA–induced synaptic facilitation at type B to A photoreceptor connections in Hermissenda. Schultz LM, et al. **Brain Res Bull** 1997;42(5):377–83

Effect of exogenous gamma–aminobutyric acid (GABA) on hepatic insulin–like growth factor I (IGF–I) and IGF–I binding protein (IGFBP–I) mRNA abundance following partial hepatectomy in rats. Minuk GY, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1546–51

The depolarizing GABA response. Perkins KL, et al. **Can J Physiol Pharmacol** 1997 May;75(5):516–9 (24 ref.)

Effects of gamma–aminobutyric acid on regional vascular resistances of conscious spontaneously hypertensive rats. Takemoto Y. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S102–4

The developmental expression of neuronal nitric oxide synthase in cerebellar granule cells is sensitive to GABA and neurotrophins. Baader SL, et al. **Dev Neurosci** 1997; 19(3):283–90

Excitatory and trophic action of GABA and related substances in newborn mice and organotypic cerebellar culture. Obata K. **Dev Neurosci** 1997;19(1):117–9

Activation of the GABAA receptor inhibits the proliferative effects of bFGF in cortical progenitor cells. Antonopoulos J, et al. **Eur J Neurosci** 1997 Feb;9(2):291–8

GABA– and glutamate–evoked responses in the rat ventral pallidum are modulated by dopamine. Johnson PI, et al. **Eur J Neurosci** 1997 Jul;9(7):1397–406

A cholecystokinin–B receptor antagonist potentiates GABAergic and glycinergic inhibition in the nucleus of the solitary tract of the rat. McLean HA, et al. **Eur J Neurosci** 1996 Jun;8(6):1078–84

Zinc modulation of bicuculline–sensitive and –insensitive GABA receptors in the developing rat hippocampus. Martina M, et al. **Eur J Neurosci** 1996 Oct;8(10):2168–76

Unsaturated phosphinic analogues of gamma–aminobutyric acid as GABA(C) receptor antagonists. Chebib M, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):223–9

Involvement of glutamate and gamma–aminobutyric acid (GABA)–ergic systems in thyrotropin–releasing hormone–induced rat cerebellar cGMP formation. Nakayama T, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2–3):157–64

gamma–Aminobutyric acid increases intracellular Ca2+ concentration in cultured cortical neurons: role of Cl– transport. Takebayashi M, et al. **Eur J Pharmacol** 1996 Feb 15;297(1–2):137–43

Anticonvulsive activity of a new GABA mimetic drug. Capasso A, et al. **Eur Neuropsychopharmacol** 1997 Feb; 7(1):57–63

Shifts of cortical d.c. potential induced by application of gamma–aminobutyric acid in rats in vivo. Lücke A, et al. **Exp Brain Res** 1997 Mar;114(1):143–8

Gamma–aminobutyric acid–induced chloride secretion [letter] MacNaughton WK, et al. **Gastroenterology** 1997 Feb;112(2):672

Characterization of the GABA response on identified dialysed Lymnaea neurons. Rubakhin SS, et al. **Gen Pharmacol** 1996 Jun;27(4):731–9

Potentiation by ethanol of GABA–induced current and facilitation of its desensitization in cultured rat cortical neurons. Tsujiyama S, et al. **Gen Pharmacol** 1997 Mar; 28(3):375–80

Pharmacologic characteristics of excitatory gamma–amino–butyric acid (GABA) receptors in a snail neuron. Zhang W, et al. **Gen Pharmacol** 1997 Jan; 28(1):45–53

Effect of acetylcholine and GABA on the transfer function of electromotility in isolated outer hair cells. Sziklai I, et al. **Hear Res** 1996 May;95(1–2):87–99

Anti–ulcerogenic activity of GABA and GABA mimetic

agents in rats. Goel RK, et al. **Indian J Exp Biol** 1996 Aug;34(8):745–9

Use–dependent regulation of GABAA receptors. Barnes EM Jr. **Int Rev Neurobiol** 1996;39:53–76 (112 ref.)

Modulation of respiratory rhythm in vitro: role of Gi/o protein–mediated mechanisms. Johnson SM, et al. **J Appl Physiol** 1996 Jun;80(6):2120–33

Flunitrazepam has an inverse agonistic effect on recombinant alpha6beta2gamma2–GABAA receptors via a flunitrazepam–binding site. Hauser CA, et al. **J Biol Chem** 1997 May 2;272(18):11723–7

Growth cone calcium elevation by GABA. Obrietan K, et al. **J Comp Neurol** 1996 Aug 19;372(2):167–75

Signaling pathway downstream of GABAA receptor in the growth cone. Fukura H, et al. **J Neurochem** 1996 Oct; 67(4):1426–34

Expression of native GABAA receptors in Xenopus oocytes injected with rat brain synaptosomes. Sanna E, et al. **J Neurochem** 1996 Nov;67(5):2212–4

Mechanisms of GABA– and glycine–induced increases of cytosolic Ca2+ concentrations in chick embryo ciliary ganglion cells. Sorimachi M, et al. **J Neurochem** 1997 Aug; 69(2):797–805

Role of nitric oxide/cyclic GMP pathway in the inhibitory effect of GABA and dopamine on prolactin release. Duvilanski BH, et al. **J Neuroendocrinol** 1996 Dec; 8(12):909–13

GABAA mediated afterdepolarization in pyramidal neurons from rat neocortex. Cerne R, et al. **J Neurophysiol** 1997 Feb;77(2):1039–45

GABA–induced inactivation of functionally characterized sites in cat visual cortex (area 18): effects on direction selectivity. Crook JM, et al. **J Neurophysiol** 1996 May; 75(5):2071–88

Docosahexaenoic acid reduces GABA response in substantia nigra neuron of rat. Hamano H, et al. **J Neurophysiol** 1996 Mar;75(3):1264–70

GABA–activated conductance in cultured rat inferior colliculus neurons. Hosomi H, et al. **J Neurophysiol** 1997 Feb;77(2):994–1002

Pharmacology of directionally selective ganglion cells in the rabbit retina. Kittila CA, et al. **J Neurophysiol** 1997 Feb; 77(2):675–89

Ionic basis of the postsynaptic depolarizing GABA response in hippocampal pyramidal cells. Perkins KL, et al. **J Neurophysiol** 1996 Dec;76(6):3886–94

Multiple postsynaptic actions of GABA via GABAB receptors on CA1 pyramidal cells of rat hippocampal slices. Pham TM, et al. **J Neurophysiol** 1996 Jul;76(1):69–80

Pharmacologically novel GABA receptor in human dorsal root ganglion neurons. Valeyev AY, et al. **J Neurophysiol** 1996 Nov;76(5):3555–8

GABA stimulates chemotaxis and chemokinesis of embryonic cortical neurons via calcium–dependent mechanisms. Behar TN, et al. **J Neurosci** 1996 Mar 1;16(5):1808–18

Shaping of IPSCs by endogenous calcineurin activity. Jones MV, et al. **J Neurosci** 1997 Oct 15;17(20):7626–33

Excitatory GABA responses in embryonic and neonatal cortical slices demonstrated by gramicidin perforated–patch recordings and calcium imaging. Owens DF, et al. **J Neurosci** 1996 Oct 15;16(20):6414–23

Excitatory actions of GABA after neuronal trauma. van den Pol AN, et al. **J Neurosci** 1996 Jul 1;16(13):4283–92

Role of GABAA receptors in the GABA attenuation of ethanol neurotoxicity. Spoerri PE, et al. **J Neurosci Res** 1996 Jun 1;44(5):499–506

Characterization of [3H]ethynylbicycloorthobenzoate ([3H]EBOB) binding and the action of insecticides on the gamma–aminobutyric acid–gated chloride channel in cultured cerebellar granule neurons. Huang J, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1191–6

Effects of the androgenic/anabolic steroid stanozolol on GABAA receptor function: GABA–stimulated 36Cl– influx and [35S] TBPS binding. Masonis AE, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):186–93

Waglerin–1 modulates gamma–aminobutyric acid activated current of murine hypothalamic neurons. Ye JH, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):74–80

Excitatory actions of GABA in developing rat hypothalamic neurones. Chen G, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):451–64

GABA and glutamate mediate rapid neurotransmission from suprachiasmatic nucleus to hypothalamic paraventricular nucleus in rat. Hermes ML, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):749–57

Spontaneous motoneuronal activity mediated by glycine and GABA in the spinal cord of rat fetuses in vitro. Nishimaru H, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):131–43

3 beta–OH–5 beta–pregnan–20–one enhances [3H]GABA binding in developing chick optic lobe. Viapiano MS, et al. **J Recept Signal Transduct Res** 1997 Jul;17(4):585–97

Influence of gender and brain region on neurosteroid modulation of GABA responses in rats. Wilson MA, et al. **Life Sci** 1997;60(19):1679–91

Effects of gamma–aminobutyric acid on human sperm motility and hyperactivation. Calogero AE, et al. **Mol Hum Reprod** 1996 Oct;2(10):733–8

Is upregulation of benzodiazepine receptors a compensatory reaction to reduced GABAergic tone in the brain of stressed mice? Pokk P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):703–8

GABA and NMDA in the prevention of apoptotic–like cell death in vitro. Ikonomovic S, et al. **Neurochem Int** 1997 Aug;31(2):283–90

GABA–dopamine receptor–receptor interactions in neostriatal membranes of the rat. Pérez de la Mora M, et al. **Neurochem Res** 1997 Aug;22(8):1051–4

Beta–adrenergic modulation of GABAergic inhibition in the deep cerebellar nuclei of F344 rats. Gould TJ, et al. **Neuropharmacology** 1997 Jan;36(1):75–81

Reduction of cerebellar GABAA responses by interleukin–1 (IL–1) through an indomethacin insensitive mechanism. Pringle AK, et al. **Neuropharmacology** 1996 Feb; 35(2):147–52

The effect of gamma–hydroxybutyric acid on naloxone–precipitated opiate withdrawal. Rosen MI, et al. **Neuropsychopharmacology** 1996 Mar;14(3):187–93

Diazepam–insensitive GABAA receptors on postnatal spiral ganglion neurones in culture. Malgrange B, et al. **Neuroreport** 1997 Feb 10;8(3):591–6

Voltage– and GABA–evoked currents from Müller glial cells of the baboon retina. Reichelt W, et al. **Neuroreport** 1997 Jan 20;8(2):541–4

Real–time detection of GABA–induced synaptic glutamate release in cultured rat cortex. Torimitsu K, et al. **Neuroreport** 1997 Apr 14;8(6):1353–8

The rho 1 GABA receptor cloned from rat retina is down–modulated by protons. Wegelius K, et al. **Neuroreport** 1996 Aug 12;7(12):2005–9

gamma–Aminobutyric acid enhances the light response of ganglion cells in the trout pineal organ. Brandstätter R, et al. **Neurosci Lett** 1996 Jun 7;210(3):173–6

Effects of rat galanin and galanin message associated peptide (GMAP) on rat growth hormone secretion and stimulating effect of gamma–aminobutyric acid on galanin release from rat hypothalamus. Nishiki M, et al. **Neurosci Lett** 1997 May 2;226(3):199–202

Amyloid beta proteins reduce the GABA–induced Cl– current in identified Aplysia neurons. Sawada M, et al. **Neurosci Lett** 1996 Aug 9;213(3):213–5

Effects of 5–(4–piperidyl) isoxazol–3–ol (4–PIOL), a GABA(A) receptor partial agonist, on recombinant human GABA(A) receptors. Westh–Hansen SE, et al. **Neurosci Lett** 1997 Jul 11;230(1):45–8

Functional expression of GABA rho 3 receptors in Xenopus oocytes. Shingai R, et al. **Neurosci Res** 1996 Dec; 26(4):387–90

Noradrenergic potentiation of cerebellar Purkinje cell responses to GABA: cyclic AMP as intracellular intermediary. Cheun JE, et al. **Neuroscience** 1996 Oct; 74(3):835–44

In vivo regulation of specific GABAA receptor subunit messenger RNAs by increased GABA concentrations in rat brain. Fénelon VS, et al. **Neuroscience** 1996 Apr; 71(3):661–70

GABA(A) receptor activation triggers a Cl– conductance increase and a K+ channel blockade in cerebellar granule cells. Labrakakis C, et al. **Neuroscience** 1997 Jul; 79(1):177–89

Nitric oxide and GABAA receptor function in the rat cerebral cortex and cerebellar granule cells. Robello M, et al. **Neuroscience** 1996 Sep;74(1):99–105

Independent depressive mechanisms of GABA and (+/–)–8–hydroxy–dipropylaminotetralin hydrobromide on young rat spinal axons. Sakuma J, et al. **Neuroscience** 1996 Dec;75(3):927–38

Sustained GABA–induced regulation of the L–type Ca2+ conductance in crustacean muscle fibers. Castellote J, et al. **Pflugers Arch** 1997 Jul;434(3):272–9

Pharmacologic actions of subtype–selective and novel GABAergic ligands in rat lines with differential sensitivity to ethanol. Wong G, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):723–30

Synthesis, stability and anticonvulsant activity of two new GABA prodrugs. Palagiano F, et al. **Pharmazie** 1997 Apr; 52(4):272–6

Novel form of crosstalk between G protein and tyrosine kinase pathways. Diversé–Pierluissi M, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5417–21

Ca(2+)–induced rebound potentiation of gamma–aminobutyric acid–mediated currents requires activation of Ca2+/calmodulin–dependent kinase II. Kano M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13351–6

Agonist–induced closure of constitutively open gamma–aminobutyric acid channels with mutated M2 domains. Pan ZH, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6490–5

The physiological effects of serotonin on spontaneous and amino acid–induced activation of cerebellar nuclear cells: an in vivo study in the cat. Kitzman PH, et al. **Prog Brain Res** 1997;114:209–23

GABAergic drugs and sexual motivation, receptivity and exploratory behaviors in the female rat. Agmo A, et al. **Psychopharmacology (Berl)** 1997 Feb;129(4):372–81

Gamma–aminobutyric acid mediation of the inhibitory effect of nitric oxide on the arginine vasopressin and oxytocin responses to insulin–induced hypoglycemia. Chiodera P, et al. **Regul Pept** 1996 Nov 14;67(1):21–5

gamma–Aminobutyric acid contributes to modulation of cardiorespiratory control after chronic ventilatory loading. Rao RS, et al. **Respir Physiol** 1997 Apr;108(1):35–44

Effects of methylprednisolone on the GABA– and glutamate–induced currents: relevance to glucocorticoid–induced neurotoxicity and brain aging. Foroutan A, et al. **Steroids** 1996 Jun;61(6):354–66

GABA induces GABAergic MSCs in cultured embryonic rat thalamic neurons. Liu QY, et al. **Synapse** 1997 Jan; 25(1):15–23

GABA–induced inactivation of functionally characterized sites in cat striate cortex: effects on orientation tuning and direction selectivity. Crook JM, et al. **Vis Neurosci** 1997 Jan–Feb;14(1):141–58

GABA–induced increases in [Ca2+]i in retinal neurons of postnatal rabbits. Huang BO, et al. **Vis Neurosci** 1996 May–Jun;13(3):441–7

The effects of GABA and glycine on horizontal cells of the rabbit retina. Blanco R, et al. **Vision Res** 1996 Dec; 36(24):3987–95

PHYSIOLOGY

Persistence of defective serotonergic and GABAergic controls of growth hormone secretion in long–term abstinent alcoholics. Vescovi PP, et al. **Alcohol Alcohol** 1997 Jan–Feb;32(1):85–90

Effects of prenatal ethanol exposure on parvalbumin–expressing GABAergic neurons in the adult rat medial septum. Moore DB, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):849–56

Ethanol modulation of GABA–activated current responses in acutely dissociated retinal bipolar cells and ganglion cells. Yeh HH, et al. **Alcohol Clin Exp Res** 1997 Jun; 21(4):647–55

Influence of GABAergic mechanisms on baroreceptor inputs to nucleus tractus solitarii of rats. Ruggeri P, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H931–6

Effects of some excitatory amino acid antagonists and drugs enhancing gamma–aminobutyric acid neurotransmission on pefloxacin–induced seizures in DBA/2 mice. De Sarro G, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):427–34

Activity of 2–azaspiro[4.5]decane–6–carboxylates as GABA–uptake inhibitors. Fleischhacker W, et al. **Arch Pharm (Weinheim)** 1996 Mar;329(3):149–54

Behavioral effects of 3 alpha–androstanediol. II: Hypothalamic and preoptic area actions via a GABAergic mechanism. Frye CA, et al. **Behav Brain Res** 1996 Sep; 79(1–2):119–30

The amygdala modulates memory for changes in reward magnitude: involvement of the amygdaloid GABAergic system. Salinas JA, et al. **Behav Brain Res** 1996 Oct; 80(1–2):87–98

Mice lacking the 65 kDa isoform of glutamic acid decarboxylase (GAD65) maintain normal levels of GAD67 and GABA in their brains but are susceptible to seizures. Asada H, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):891–5

Working hypothesis on a GABAergic therapeutic approach of the spongiform encephalopathies [letter] Vamvakidès A. **Boll Chim Farm** 1997 Jan;136(1):1

Ultrastructural immunocytochemical localization of the dopamine D2 receptor within GABAergic neurons of the rat striatum. Delle Donne KT, et al. **Brain Res** 1997 Jan 23;746(1–2):239–55

Receptor binding sites and uptake activities mediating GABA neurotransmission in chronic alcoholics with Wernicke encephalopathy. Dodd PR, et al. **Brain Res** 1996 Feb 26; 710(1–2):215–28

Quantitative analysis of GAD65 and GAD67 immunoreactivities in somata of GABAergic neurons in the mouse hippocampus proper (CA1 and CA3 regions), with special reference to parvalbumin–containing neurons. Fukuda T, et al. **Brain Res** 1997 Aug 1;764(1–2):237–43

GABAergic modulation of optic nerve–evoked field potentials in the rat suprachiasmatic nucleus. Gannon RL, et al. **Brain Res** 1995 Oct 2;694(1–2):264–70

A post mortem study on neurochemical markers of dopaminergic, GABA–ergic and glutamatergic neurons in basal ganglia–thalamocortical circuits in Parkinson syndrome. Gerlach M, et al. **Brain Res** 1996 Nov 25; 741(1–2):142–52

GABAergic neuronal activity and mRNA levels for both forms of glutamic acid decarboxylase (GAD65 and GAD67) are reduced in the diagonal band of Broca during the afternoon of proestrus. Grattan DR, et al. **Brain Res** 1996 Sep 9;733(1):46–55

Medial amygdaloid suppression of predatory attack behavior in the cat: II. Role of a GABAergic pathway from the medial to the lateral hypothalamus. Han Y, et al. **Brain Res** 1996 Apr 15;716(1–2):72–83

GABAergic control of Arg–vasopressin release from suprachiasmatic nucleus slice culture. Isobe Y, et al. **Brain Res** 1997 May 2;755(2):213–20

The type 3 serotonin receptor is expressed in a subpopulation of GABAergic neurons in the rat neocortex and hippocampus. Morales M, et al. **Brain Res** 1996 Aug 26; 731(1–2):199–202

Decreased GABA effectiveness in the inferior colliculus neurons during ethanol withdrawal in rats susceptible to audiogenic seizures. N'Gouemo P, et al. **Brain Res** 1996 Jun 17;724(2):200–4

Amygdala–kindled seizures increase the expression of corticotropin–releasing factor (CRF) and CRF–binding protein in GABAergic interneurons of the dentate hilus. Smith MA, et al. **Brain Res** 1997 Jan 16;745(1–2):248–56

Paired pulse facilitation of GABAergic IPSCs in ventral horn

neurons in neonatal rat spinal cord. Tanabe M, et al. **Brain Res** 1996 Apr 15;716(1–2):101–6

Vasoactive intestinal polypeptide enhances the GABAergic synaptic transmission in cultured hippocampal neurons. Wang HL, et al. **Brain Res** 1997 Jan 23;746(1–2):294–300

Electron microscopic study of GABAergic synaptic innervation of neurotensin-immunoreactive neurons in the dorsal raphe nucleus. Wang QP, et al. **Brain Res** 1996 Aug 19;730(1–2):118–24

GABAergic and glycinergic inputs to the rabbit oculomotor nucleus with special emphasis on the medial rectus subdivision. Wentzel PR, et al. **Brain Res** 1996 Jan 29; 707(2):314–9

Taurine inhibits rat substantia nigra pars reticulata neurons by activation of GABA- and glycine-linked chloride conductance. Ye G, et al. **Brain Res** 1997 Feb 21; 749(1):175–9

Reduction of GABAergic transmission and alterations in behavior after 6-OHDA treatment of rats. Podkletnova I, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):197–204

GABA mechanisms in the cerebral cortex. Proceedings of a symposium. Montreal, Quebec, Canada, 9–10 May 1996. **Can J Physiol Pharmacol** 1997 May;75(5):439–545

Mechanisms controlling neuronal plasticity in somatosensory cortex. Dykes RW. **Can J Physiol Pharmacol** 1997 May; 75(5):535–45 (89 ref.)

Role of GABA in cerebral cortex. Krnjević K. **Can J Physiol Pharmacol** 1997 May;75(5):439–51 (95 ref.)

Development and plasticity of the inhibitory neocortical circuitry with an emphasis on the rodent barrel field cortex: a review. Micheva KD, et al. **Can J Physiol Pharmacol** 1997 May;75(5):470–8 (70 ref.)

Chronic focal neocortical epileptogenesis: does disinhibition play a role? Prince DA, et al. **Can J Physiol Pharmacol** 1997 May;75(5):500–7

Three distinct families of GABAergic neurons in rat visual cortex. Gonchar Y, et al. **Cereb Cortex** 1997 Jun; 7(4):347–58

Dual role of substance P/GABA axons in cortical neurotransmission: synaptic triads on pyramidal cell spines and basket-like innervation of layer II–III calbindin interneurons in primate prefrontal cortex. Jakab RL, et al. **Cereb Cortex** 1997 Jun;7(4):359–73

GABAergic cell subtypes and their synaptic connections in rat frontal cortex. Kawaguchi Y, et al. **Cereb Cortex** 1997 Sep;7(6):476–86

GABA physiology: modulation by benzodiazepines and hormones. Wilson MA. **Crit Rev Neurobiol** 1996;10(1):1–37 (249 ref.)

Role of GABA in memory and anxiety. Kalueff A, et al. **Depress Anxiety** 1996–97;4(3):100–10 (86 ref.)

GABAergic neurons in the embryonic olfactory pit/vomeronasal organ: maintenance of functional GABAergic synapses in olfactory explants. Wray S, et al. **Dev Biol** 1996 Dec 15;180(2):631–45

The GABA network and the pathogenesis of IDDM [see comments] Degli Esposti M, et al. **Diabetologia** 1997 Mar; 40(3):352–6 (51 ref.). Comment in: Diabetologia 1997 Mar;40(3):357–61.

Antiandrogen microimplants into the rostral medial preoptic area decrease gamma-aminobutyric acidergic neuronal activity and increase luteinizing hormone secretion in the intact male rat. Grattan DR, et al. **Endocrinology** 1996 Oct; 137(10):4167–73

GABA-mediated synchronous potentials and seizure generation. Avoli M. **Epilepsia** 1996 Nov;37(11):1035–42 (42 ref.)

GABA and epileptogenesis. Olsen RW, et al. **Epilepsia** 1997 Apr;38(4):399–407 (85 ref.)

Vulnerability and plasticity of the GABA system in the pilocarpine model of spontaneous recurrent seizures. Houser CR, et al. **Epilepsy Res** 1996 Dec;26(1):207–18

Analysis of the kinetics of synaptic inhibition points to a reduction in GABA release in area CA1 of the genetically epileptic mouse, El. Lambert JD, et al. **Epilepsy Res** 1996 Dec;26(1):15–23

Developmental and seizure-related regional differences in immediate early gene expression and GABAergic abnormalities in the brain of EL mice. Murashima YL, et al. **Epilepsy Res** 1996 Dec;26(1):3–14

Effects of valproate-induced alteration of the GABAergic system on pulsatile luteinizing hormone secretion in ovariectomized women. Lado-Abeal J, et al. **Eur J Endocrinol** 1996 Sep;135(3):293–8

Two glutamate decarboxylase forms corresponding to the mammalian GAD65 and GAD67 are expressed during development of the chick telencephalon. Ahman AK, et al. **Eur J Neurosci** 1996 Oct;8(10):2111–7

Dopamine D1 receptor-mediated facilitation of GABAergic neurotransmission in the rat strioentopenduncular pathway and its modulation by adenosine A1 receptor-mediated mechanisms. Ferre S, et al. **Eur J Neurosci** 1996 Jul; 8(7):1545–53

GABAergic transcallosal neurons in developing rat neocortex. Kimura F, et al. **Eur J Neurosci** 1997 Jun; 9(6):1137–43

Expression of AMPA-glutamate receptor B subunit in rat hippocampal GABAergic neurons. Racca C, et al. **Eur J Neurosci** 1996 Aug;8(8):1580–90

Basic aspects of GABA-transmission in alcoholism, with particular reference to GABA-transaminase. Sherif FM, et al. **Eur Neuropsychopharmacol** 1997 Feb;7(1):1–7 (61 ref.)

Sex differences in the developmental changes of GABAergic neurons in zebra finch song control nuclei. Sakaguchi H. **Exp Brain Res** 1996 Feb;108(1):62–8

gamma-Aminobutyric acid and intestinal secretion [letter; comment] Hardcastle J, et al. **Gastroenterology** 1996 Oct; 111(4):1163–4. Comment on: Gastroenterology 1996 Feb;110(2):498–507.

The pharmacology of excitatory and inhibitory amino acid-mediated events in the transmission and modulation of pain in the spinal cord. Dickenson AH, et al. **Gen Pharmacol** 1997 May;28(5):633–8 (62 ref.)

Neuronal regulation of astrocyte morphology in vitro is mediated by GABAergic signaling. Matsutani S, et al. **Glia** 1997 May;20(1):1–9

Ammonia and GABA-ergic neurotransmission: interrelated factors in the pathogenesis of hepatic encephalopathy. Basile AS, et al. **Hepatology** 1997 Jun;25(6):1303–5 (43 ref.)

Pyramidal cells and stratum lacunosum-moleculare interneurons in the CA1 hippocampal region share a GABAergic spontaneous input. Atzori M. **Hippocampus** 1996;6(1):72–8

Physiological properties of anatomically identified basket and bistratified cells in the CA1 area of the rat hippocampus in vitro. Buhl EH, et al. **Hippocampus** 1996;6(3):294–305

Subpopulations of GABA neurons in the dentate gyrus express high levels of the alpha 1 subunit of the GABAA receptor. Esclapez M, et al. **Hippocampus** 1996;6(3):225–38

Synaptic target selectivity and input of GABAergic basket and bistratified interneurons in the CA1 area of the rat hippocampus. Halasy K, et al. **Hippocampus** 1996; 6(3):306–29

Encoding and retrieval of episodic memories: role of cholinergic and GABAergic modulation in the hippocampus. Hasselmo ME, et al. **Hippocampus** 1996; 6(6):693–708 (107 ref.)

GABAergic mechanism in histamine H3 receptor inhibition of K(+)-evoked release of acetylcholine from rat cortex in vivo. Giorgetti M, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S33–4

GABAergic regulation of cerebral microvascular tone in the rat. Fergus A, et al. **J Cereb Blood Flow Metab** 1997 Sep; 17(9):992–1003

Immunostaining for substance P receptor labels GABAergic cells with distinct termination patterns in the hippocampus. Acsády L, et al. **J Comp Neurol** 1997 Feb 17;378(3):320–36

GABAergic and other noncholinergic basal forebrain neurons, together with cholinergic neurons, project to the mesocortex and isocortex in the rat. Gritti I, et al. **J Comp Neurol** 1997 Jun 30;383(2):163–77

Evidence of gamma-aminobutyric acidergic control over the catecholaminergic projection from the medulla oblongata to the central nucleus of the amygdala. Jia HG, et al. **J Comp Neurol** 1997 May 12;381(3):262–81

Regional variability and postsynaptic targets of chandelier cells in the hippocampal formation of the rat. Martínez A, et al. **J Comp Neurol** 1996 Dec 2;376(1):28–44

GABAergic neurons in the rat dentate gyrus are innervated by subcortical calretinin-containing afferents. Nitsch R, et al. **J Comp Neurol** 1996 Jan 15;364(3):425–38

A role for GABAergic inhibition in electrosensory processing and common mode rejection in the dorsal nucleus of the little skate, Raja erinacea. Duman CH, et al. **J Comp Physiol [A]** 1996 Dec;179(6):797–807

Initiation of the oestradiol-induced inhibition of pulsatile LH secretion in ewes under long days: comparison of peripheral versus central treatment and neurochemical correlates. Gallegos-Sanchez J, et al. **J Endocrinol** 1996 Oct; 151(1):19–28

Contrasting strategies for anoxic brain survival--glycolysis up or down. Lutz PL, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):411–9 (59 ref.)

Duality of glutamatergic and GABAergic control of pulsatile GnRH secretion by rat hypothalamic explants: I. Effects of antisense oligodeoxynucleotides using explants including or excluding the preoptic area. Bourguignon JP, et al. **J Neuroendocrinol** 1997 Mar;9(3):183–91

Dopamine inhibition: enhancement of GABA activity and potassium channel activation in hypothalamic and arcuate nucleus neurons. Belousov AB, et al. **J Neurophysiol** 1997 Aug;78(2):674–88

Recruitment of GABAergic inhibition and synchronization of inhibitory interneurons in rat neocortex. Benardo LS. **J Neurophysiol** 1997 Jun;77(6):3134–44

Relation between rise times and amplitudes of GABAergic postsynaptic currents. Bier M, et al. **J Neurophysiol** 1996 Mar;75(3):1008–12

Endogenous GABA activates small-conductance K+ channels underlying slow IPSCs in rat hippocampal neurons. De Koninck Y, et al. **J Neurophysiol** 1997 Apr; 77(4):2202–8

Stimulation within the rostral ventrolateral medulla can evoke monosynaptic GABAergic IPSPs in sympathetic preganglionic neurons in vitro. Deuchars SA, et al. **J Neurophysiol** 1997 Jan;77(1):229–35

GABAA receptor function in developing rat thalamic reticular neurons: whole cell recordings of GABA-mediated currents and modulation by clonazepam. Gibbs JW 3rd, et al. **J Neurophysiol** 1996 Oct;76(4):2568–79

Block of glutamate decarboxylase decreases GABAergic inhibition at the crayfish synapses: possible role of presynaptic metabotropic mechanisms. Golan H, et al. **J Neurophysiol** 1996 May;75(5):2089–98

Neuronal diversity in the subiculum: correlations with the effects of somatostatin on intrinsic properties and on GABA-mediated IPSPs in vitro. Greene JR, et al. **J Neurophysiol** 1996 Sep;76(3):1657–66

Neuroprotection by propofol in acute mechanical injury: role of GABAergic inhibition. Hollrigel GS, et al. **J Neurophysiol** 1996 Oct;76(4):2412–22

Glycine and GABA influence binaural processing in the inferior colliculus of the mustache bat. Klug A, et al. **J Neurophysiol** 1995 Oct;74(4):1701–13

Blockade of GABAergic inhibition reveals reordered cortical somatotopic maps in rats that sustained neonatal forelimb removal. Lane RD, et al. **J Neurophysiol** 1997 May; 77(5):2723–35

GABAergic modulation of complex spike activity by the cerebellar nucleoolivary pathway in rat. Lang EJ, et al. **J Neurophysiol** 1996 Jul;76(1):255–75

GABA- and glycine-mediated fall of intracellular pH in rat medullary neurons in situ. Lückermann M, et al. **J Neurophysiol** 1997 Apr;77(4):1844–52

Functionally distinct chloride-mediated GABA responses in rat cerebellar granule cells cultured in a low-potassium medium. Martina M, et al. **J Neurophysiol** 1997 Jan; 77(1):507–10

Postsynaptic mechanisms underlying long-term depression of GABAergic transmission in neurons of the deep cerebellar nuclei. Morishita W, et al. **J Neurophysiol** 1996 Jul;76(1):59–68

GABA inputs control discharge rate primarily within frequency receptive fields of inferior colliculus neurons. Palombi PS, et al. **J Neurophysiol** 1996 Jun;75(6):2211–9

Differential response properties to amplitude modulated signals in the dorsal nucleus of the lateral lemniscus of the mustache bat and the roles of GABAergic inhibition. Yang L, et al. **J Neurophysiol** 1997 Jan;77(1):324–40

Local release of GABAergic inhibition in the motor cortex induces immediate-early gene expression in indirect pathway neurons of the striatum. Berretta S, et al. **J Neurosci** 1997 Jun 15;17(12):4752–63

Endogenous activation of mu and delta-1 opioid receptors is required for long-term potentiation induction in the lateral perforant path: dependence on GABAergic inhibition. Bramham CR, et al. **J Neurosci** 1996 Dec 15; 16(24):8123–31

Long-lasting GABA-mediated depolarization evoked by high-frequency stimulation in pyramidal neurons of rat hippocampal slice is attributable to a network-driven, bicarbonate-dependent K+ transient. Kaila K, et al. **J Neurosci** 1997 Oct 15;17(20):7662–72

A monosynaptic GABAergic input from the inferior colliculus to the medial geniculate body in rat. Peruzzi D, et al. **J Neurosci** 1997 May 15;17(10):3766–77

Characterization of functional GABAergic synapses formed between rat hypothalamic neurons and pituitary intermediate lobe cells in coculture: Ca2+ dependence of spontaneous IPSCs. Poisbeau P, et al. **J Neurosci** 1996 Aug 15;16(16):4835–45

GABAergic and glycinergic IPSCs in ganglion cells of rat retinal slices. Protti DA, et al. **J Neurosci** 1997 Aug 15; 17(16):6075–85

Temporal correlations between functional and molecular changes in NMDA receptors and GABA neurotransmission in the superior colliculus. Shi J, et al. **J Neurosci** 1997 Aug 15;17(16):6264–76

Differential actions of serotonin, mediated by 5-HT1B and 5-HT2C receptors, on GABA-mediated synaptic input to rat substantia nigra pars reticulata neurons in vitro. Stanford IM, et al. **J Neurosci** 1996 Dec 1;16(23):7566–73

A pacemaker current in dye-coupled hilar interneurons contributes to the generation of giant GABAergic potentials in developing hippocampus. Strata F, et al. **J Neurosci** 1997 Feb 15;17(4):1435–46

GABA in the nucleus accumbens shell participates in the central regulation of feeding behavior. Stratford TR, et al. **J Neurosci** 1997 Jun 1;17(11):4434–40

Massive autaptic self-innervation of GABAergic neurons in cat visual cortex. Tamás G, et al. **J Neurosci** 1997 Aug 15;17(16):6352–64

Selective toxicity of the general anesthetic propofol for GABAergic neurons in rat brain cell cultures. Honegger P, et al. **J Neurosci Res** 1996 Sep 1;45(5):631–6

Nitric oxide regulates NMDA-driven GABAergic inputs to type I neurones of the rat paraventricular nucleus. Bains JS, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):733–46

Postsynaptic mechanism of depression of GABAergic synapses by oxytocin in the supraoptic nucleus of immature rat. Brussaard AB, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):495–507

Synchronization of GABAergic interneuronal network in CA3 subfield of neonatal rat hippocampal slices. Khazipov R, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):763–72

Bidirectional plasticity expressed by GABAergic synapses in the neonatal rat hippocampus. McLean HA, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):471–7

Fast IPSPs elicited via multiple synaptic release sites by different types of GABAergic neurone in the cat visual cortex. Tamás G, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):715–38

Disinhibition of rat hippocampal pyramidal cells by GABAergic afferents from the septum. Tóth K, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):463–74

GABAB receptor-mediated responses in GABAergic

projection neurones of rat nucleus reticularis thalami in vitro. Ulrich D, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):845–54

The role of stress and dopamine–GABA interactions in the vulnerability for schizophrenia. Benes FM. **J Psychiatr Res** 1997 Mar–Apr;31(2):257–75 (105 ref.)

A two–process theory of schizophrenia: evidence from studies in post–mortem brain. Deakin JF, et al. **J Psychiatr Res** 1997 Mar–Apr;31(2):277–95 (130 ref.)

Involvement of supraspinal GABA–ergic systems in clonidine–induced antinociception in the tail–pinch test in mice. Nguyen TT, et al. **Life Sci** 1997;61(11):1097–103

The role of GABAB mechanisms in animal models of absence seizures. Caddick SJ, et al. **Mol Neurobiol** 1996 Aug; 13(1):23–32 (62 ref.)

GABA in the mammalian suprachiasmatic nucleus and its role in diurnal rhythmicity [see comments] Wagner S, et al. **Nature** 1997 Jun 5;387(6633):598–603. Comment in: Nature 1997 Jun 5;387(6633):554–5.

Sites of synaptic junctions established by a GABAergic basket cell on an interneuron in the CA1 area of the rat hippocampus. Halasy K, et al. **Neurobiology (Bp)** 1996; 4(3):269–70

Characterization of the metabotropic glutamate receptors (mGluRs) which modulate GABA–mediated inhibition in the ventrobasal thalamus. Salt TE, et al. **Neurochem Int** 1996 Sep;29(3):317–22

On the role of c–fos expression in striatal transmission. The antisense oligonucleotide approach. Sommer W, et al. **Neurochem Int** 1997 Sep;31(3):425–36 (50 ref.)

Is hypothalamic GABA involved in immune function in relation to dietary protein during aging? Bandyopadhyay BC, et al. **Neurochem Res** 1997 Sep;22(9):1135–44

The GABAergic control of gonadotropin–releasing hormone secretion in male rats during sexual maturation involves effects on hypothalamic excitatory and inhibitory amino acid systems. Feleder C, et al. **Neuroendocrinology** 1996 Oct;64(4):305–12

Inhibition of GABA–gated chloride channels in brain by the arachidonic acid metabolite, thromboxane A2. Schwartz–Bloom RD, et al. **Neuropharmacology** 1996; 35(9–10):1347–53

GABAergic retinocollicular projection in the New World monkey Cebus apella. da Costa BL, et al. **Neuroreport** 1997 May 27;8(8):1797–802

Repetitive spreading depression causes selective suppression of GABAergic function. Krüger H, et al. **Neuroreport** 1996 Nov 4;7(15–17):2733–6

Participation of gamma–aminobutyric acid in the negative feedback mechanisms of the hypothalamohypophyseotesticular complex. Naumenko EV, et al. **Neurosci Behav Physiol** 1996 Mar–Apr; 26(2):133–6

GABAergic synapses on mu–opioid receptor–expressing neurons in the superficial dorsal horn: an electron microscope study in the cat spinal cord. Gong LW, et al. **Neurosci Lett** 1997 May 9;227(1):33–6

AMPA–selective glutamate receptor subunits and their relation to glutamate– and GABA–like immunoreactive terminals in the nucleus submedius of the rat. Hamlin L, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):149–52

GABAergic synapses upon neurons expressing substance P receptors in the nucleus of the solitary tract: an immunocytochemical electron microscope study in the rat. Jia HG, et al. **Neurosci Lett** 1996 May 24;210(1):49–52

GABA in locus coeruleus regulates spontaneous rapid eye movement sleep by acting on GABAA receptors in freely moving rats. Kaur S, et al. **Neurosci Lett** 1997 Feb 21; 223(2):105–8

Long–lasting facilitation of inhibitory transmission by monoaminergic and cAMP–dependent mechanism in rat cerebellar GABAergic synapses. Mitoma H, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):141–4

Development of low magnesium–induced spontaneous synchronized bursting and GABAergic modulation in cultured rat neocortical neurons. Watanabe S, et al. **Neurosci Lett** 1996 May 24;210(1):41–4

Gaba–like immunoreactive terminals on lumbar motoneurons of the adult cat. A quantitative ultrastructural study. Destombes J, et al. **Neurosci Res** 1996 Jan;24(2):123–30

Electron microscopic serial analysis of GABA presynaptic terminals on the axon hillock and initial segment of labeled abducens motoneurons in the rat. Lahjouji F, et al. **Neurosci Res** 1997 Feb;27(2):143–53

Multiple inputs of GABA–immunoreactive neurons in the cuneate nucleus of the rat. Lue JH, et al. **Neurosci Res** 1997 Feb;27(2):123–32

Postnatal development of GABA–immunoreactive terminals in the reticular and ventrobasal nuclei of the rat thalamus: a light and electron microscopic study. De Biasi S, et al. **Neuroscience** 1997 Jan;76(2):503–15

Climbing fibre collaterals contact neurons in the cerebellar nuclei that provide a GABAergic feedback to the inferior olive. De Zeeuw CI, et al. **Neuroscience** 1997 Oct; 80(4):981–6

Involvement of pallidal and nigral GABA mechanisms in the generation of tremulous jaw movements in rats. Finn M, et al. **Neuroscience** 1997 Sep;80(2):535–44

Morphine modulation of GABA– and glutamate–induced changes of ventral pallidal neuronal activity. Johnson PI, et al. **Neuroscience** 1997 Mar;77(1):187–97

Microglia from the developing rat medial septal area can affect cholinergic and GABAergic neuronal differentiation in vitro. Mazzoni IE, et al. **Neuroscience** 1997 Jan; 76(1):147–57

Electrophysiological and immunocytochemical characterization of GABA and dopamine neurons in the substantia nigra of the rat. Richards CD, et al. **Neuroscience** 1997 Sep;80(2):545–57

Effects of spinal cord stimulation on touch–evoked allodynia involve GABAergic mechanisms. An experimental study in the mononeuropathic rat. Cui JG, et al. **Pain** 1996 Aug; 66(2–3):287–95

Effects of the neuropeptide thyrotropin–releasing hormone on GABAergic synaptic transmission of CA1 neurons of the rat hippocampal slice during hypoxia. Barbieri M, et al. **Peptides** 1997;18(4):585–91

The neuropeptide thyrotropin–releasing hormone modulates GABAergic synaptic transmission on pyramidal neurones of the rat hippocampal slice. Stocca G, et al. **Peptides** 1996; 17(7):1197–202

Responses to propofol in relation to GABA functionality of discrete parts of the brain of rats. Dirksen R, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):727–35

Dorsomedial hypothalamic GABA dysfunction produces physiological arousal following sodium lactate infusions. Shekhar A, et al. **Pharmacol Biochem Behav** 1996 Oct; 55(2):249–56

Intrastriatally injected c–fos antisense oligonucleotide interferes with striatonigral but not striatopallidal gamma–aminobutyric acid transmission in the conscious rat. Sommer W, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14134–9

The gamma–hydroxybutyrate signalling system in brain: organization and functional implications. Maitre M. **Prog Neurobiol** 1997 Feb;51(3):337–61 (236 ref.)

A linkage study between bipolar disorder and genes involved in dopaminergic and GABAergic neurotransmission. De bruyn A, et al. **Psychiatr Genet** 1996 Summer;6(2):67–73

Functional dynamics of GABAergic inhibition in the thalamus. Kim U, et al. **Science** 1997 Oct 3;278(5335):130–4

Distinct mechanisms for synchronization and temporal patterning of odor–encoding neural assemblies. MacLeod K, et al. **Science** 1996 Nov 8;274(5289):976–9

Excitatory actions of serotonin on GABAergic neurons of the medial septum and diagonal band of Broca. Alreja M. **Synapse** 1996 Jan;22(1):15–27

Intermittent morphine administration induces a long–lasting synergistic effect of corticosterone on dopamine D1 receptor functioning in rat striatal GABA neurons. Schoffelmeer AN, et al. **Synapse** 1997 Apr;25(4):381–8

GABA and its receptors in the spinal cord. Malcangio M, et al. **Trends Pharmacol Sci** 1996 Dec;17(12):457–62 (59 ref.)

An in vitro study of retinotectal transmission in the chick: role of glutamate and GABA in evoked field potentials. Dye JC, et al. **Vis Neurosci** 1996 Jul–Aug;13(4):747–58

Is the input to a GABAergic synapse the sole asymmetry in turtle's retinal directional selectivity? Smith RD, et al. **Vis Neurosci** 1996 May–Jun;13(3):423–39

[Proprioceptive and cutaneous evoked somatosensory potentials in the baboon: cycles of GABAergic excitability and inhibition] el Kharroussi M, et al. **Neurophysiol Clin** 1997;27(2):89–108 (Eng. Abstr.) **(Fre)**

[Propofol is toxic for immature GABAergic neurons] Matthieu JM, et al. **Rev Med Suisse Romande** 1996 Dec; 116(12):971–3 **(Fre)**

[The effect of changes in the concentration of gamma–aminobutyric acid in the body of rats on the regulation of the testosterone level by the negative feedback mechanism] Amikisheva AV, et al. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):54–9 (Eng. Abstr.) **(Rus)**

SECRETION

Halothane and isoflurane differentially affect the regulation of dopamine and gamma–aminobutyric acid release mediated by presynaptic acetylcholine receptors in the rat striatum. Salord F, et al. **Anesthesiology** 1997 Mar; 86(3):632–41

Histamine H1 receptor activation stimulates [3H]GABA release from human astrocytoma U373 MG cells. Soria–Jasso LE, et al. **Eur J Pharmacol** 1996 Dec 27; 318(1):185–92

GABAB receptor–mediated inhibition of tetrodotoxin–resistant GABA release in rodent hippocampal CA1 pyramidal cells. Jarolimek W, et al. **J Neurosci** 1997 Feb 1;17(3):1025–32

N–ethylmaleimide blocks depolarization–induced suppression of inhibition and enhances GABA release in the rat hippocampal slice in vitro. Morishita W, et al. **J Neurosci** 1997 Feb 1;17(3):941–50

Chronic cocaine enhances gamma–aminobutyric acid and glutamate release by altering presynaptic and not postsynaptic gamma–aminobutyric acidB receptors within the rat dorsolateral septal nucleus. Shoji S, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):129–37

Characterization of melittin effects in synaptosomes. González L, et al. **Neurochem Res** 1997 Feb;22(2):189–99

Effects of endotoxin on in vitro release of LHRH and amino acid neurotransmitters by preoptic mediobasal hypothalamic fragments. Feleder C, et al. **Neuroimmunomodulation** 1996 Mar–Jun;3(2–3):76–81

Either N– or P–type calcium channels mediate GABA release at distinct hippocampal inhibitory synapses. Poncer JC, et al. **Neuron** 1997 Mar;18(3):463–72

GABA release is enhanced in mouse hippocampal slices in cell–damaging conditions. Saransaari P, et al. **Proc West Pharmacol Soc** 1996;39:11–4

THERAPEUTIC USE

[The effect of GABA and piracetam on the qualitative and quantitative composition of the brain phospholipids in rats under hypokinetic conditions] Akopian VP, et al. **Eksp Klin Farmakol** 1996 May–Jun;59(3):40–3 (Eng. Abstr.) **(Rus)**

GABA–A RECEPTORS see **RECEPTORS, GABA–A**

GABA AGENTS

ADMINISTRATION & DOSAGE

High–dose versus low–dose valproic acid as a prophylactic medication. Taylor K, et al. **Headache** 1996 Sep;36(8):514–5

[The effect of aminooxyacetic acid on the antidote activity of diazepam after exposure to GABA–lytics] Golovko AI, et al. **Biull Eksp Biol Med** 1994 Apr;117(4):441–3 **(Rus)**

ADVERSE EFFECTS

Trilineage hematopoietic toxicity associated with valproic acid therapy. Bottom KS, et al. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):73–6

PHARMACOLOGY

Effects of some excitatory amino acid antagonists and drugs enhancing gamma–aminobutyric acid neurotransmission on pefloxacin–induced seizures in DBA/2 mice. De Sarro G, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):427–34

Cranial nerves and ganglia are altered after in vitro treatment of mouse embryos with valproic acid (VPA) and 4–en–VPA. Gofflot F, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1–2):62–9

Excitatory and trophic action of GABA and related substances in newborn mice and organotypic cerebellar culture. Obata K. **Dev Neurosci** 1997;19(1):117–9

Pharmacologic characteristics of excitatory gamma–amino–butyric acid (GABA) receptors in a snail neuron. Zhang W, et al. **Gen Pharmacol** 1997 Jan; 28(1):45–53

Wolff Award 1996. The actions of valproate and neurosteroids in a model of trigeminal pain. Cutrer FM, et al. **Headache** 1996 Nov–Dec;36(10):579–85

GABAergic agents modify imipramine analgesia. Ballal PM, et al. **Indian J Physiol Pharmacol** 1996 Jan;40(1):95–7

Use–dependent regulation of GABAA receptors. Barnes EM Jr. **Int Rev Neurobiol** 1996;39:53–76 (112 ref.)

A rat model of distractibility: effects of drugs modifying dopaminergic, noradrenergic and GABAergic neurotransmission. Agmo A, et al. **J Neural Transm** 1997; 104(1):11–29

Interactions between dopamine and GABA in the control of ambulatory activity. Agmo A, et al. **J Neural Transm** 1996;103(8–9):925–34

Physiological and pharmacological alterations in postsynaptic GABA(A) receptor function in a hippocampal culture model of chronic spontaneous seizures. Gibbs JW 3rd, et al. **J Neurophysiol** 1997 Apr;77(4):2139–52

Attenuation of excitotoxic cell swelling and GABA release by the GABA transport inhibitor SKF 89976A. Zeevalk GD, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):27–36

GABAergic drugs inhibit amphetamine–induced distractibility in the rat. Agmo A, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):119–26

[Fenibut and fenazepam as potential protectors of pregnancy with a GABA–ergic mechanism of action] Sergeev PV, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):33–6 (Eng. Abstr.) **(Rus)**

[Acute and chronic treatment with sodium valproate on gonadotropin hormone levels before menopause and during menopause] Spremović–Radjenović S, et al. **Srp Arh Celok Lek** 1996 Jul–Aug;124(7–8):179–83 (Eng. Abstr.) **(Scc)**

POISONING

Hemodialysis and hemoperfusion for treatment of valproic acid and gabapentin poisoning. Fernandez MC, et al. **Vet Hum Toxicol** 1996 Dec;38(6):438–43

THERAPEUTIC USE

A comparison of divalproex with propranolol and placebo for the prophylaxis of migraine without aura. Kaniecki RG. **Arch Neurol** 1997 Sep;54(9):1141–5

Working hypothesis on a GABAergic therapeutic approach of the spongiform encephalopathies [letter] Vamvakidès A. **Boll Chim Farm** 1997 Jan;136(1):1

The pharmacology of antimyoclonic drugs. Pranzatelli MR. **Clin Neurosci** 1995–96;3(4):246–52 (60 ref.)

The effect on maximal electroshock seizures induced by GABA agents and antiepileptic drugs microinfused into the nucleus reticularis pontis oralis. Peterson SL. **Epilepsy Res** 1996 Nov;25(3):161–7

Suppression of cortical epileptic afterdischarges in developing rats by anticonvulsants increasing GABAergic

GABA AGENTS

inhibition. Polášek R, et al. **Epilepsy Res** 1996 Nov; 25(3):177–84

Protective effects of GABAergic drugs and other anticonvulsants in lithium–pilocarpine–induced status epilepticus. George B, et al.
Methods Find Exp Clin Pharmacol 1996 Jun;18(5):335–40

[The pharmacology of spasticity] Morel N.
J Belge Med Phys Rehabil 1980;3(2):105–12 **(Fre)**

[The neuroprotective effect of GABA–ergic substances in cerebral ischemia] Kulinskii VI, et al.
Eksp Klin Farmakol 1997 Jan–Feb;60(1):56–8 (Eng. Abstr.) **(Rus)**

GABA AGONISTS

Novartis find sparks new GABA drug search [news] Eccleston A. **Nat Biotechnol** 1997 May;15(5):403–4

Gamma hydroxybutyrate is not a GABA agonist. Feigenbaum JJ, et al. **Prog Neurobiol** 1996 Sep;50(1):1–7 (94 ref.)

ADMINISTRATION & DOSAGE

Effect of dorsal raphe injections of the GABAA agonist, muscimol, on ethanol intake and measures of intoxication in Wistar rats. Tomkins DM, et al.
Alcohol Alcohol Suppl 1994;2:551–8

Effect of pertussis toxin on morphine, diphenhydramine, baclofen, clomipramine and physostigmine antinociception. Galeotti N, et al. **Eur J Pharmacol** 1996 Jul 18; 308(2):125–33

The effect of spinal GABA receptor agonists on tactile allodynia in a surgically–induced neuropathic pain model in the rat. Hwang JH, et al. **Pain** 1997 Mar;70(1):15–22

[Optimization of a method of infusion of reverse agonists of GABA–receptor complex in analysis of rapidly reversible effects of tranquilizers and ethanol] Golovenko NIa, et al. **Biull Eksp Biol Med** 1997 May;123(5):551–4 **(Rus)**

BLOOD

High–performance liquid chromatographic determination of baclofen in human plasma. Millerioux L, et al.
J Chromatogr A 1996 Apr 5;729(1–2):309–14

CHEMICAL SYNTHESIS

Synthesis and pharmacological characterization of aminocyclopentanetricarboxylic acids: new tools to discriminate between metabotropic glutamate receptor subtypes. Acher FC, et al. **J Med Chem** 1997 Sep 12; 40(19):3119–29

Structural analogues of ZAPA as GABAA agonists. Allan RD, et al. **Neurochem Int** 1997 Jun;30(6):583–91

DIAGNOSTIC USE

Growth hormone response to the GABAB agonist baclofen in major depressive disorder. Davis LL, et al.
Psychoneuroendocrinology 1997 Apr;22(3):129–40

METABOLISM

Binding characteristics of gamma–hydroxybutyric acid as a weak but selective GABAB receptor agonist. Mathivet P, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):67–75

PHARMACOLOGY

Effect of long term baclofen treatment on recognition memory and novelty detection. Tang AC, et al.
Behav Brain Res 1996 Jan;74(1–2):145–52

Functional inactivation of the lateral and basal nuclei of the amygdala by muscimol infusion prevents fear conditioning to an explicit conditioned stimulus and to contextual stimuli. Muller J, et al. **Behav Neurosci** 1997 Aug; 111(4):683–91

Electrophysiological actions of GABAB agonists and antagonists in rat dorso–lateral septal neurones in vitro. Bon C, et al. **Br J Pharmacol** 1996 Jun;118(4):961–7

Responses of rat substantia nigra dopamine–containing neurones to (–)–HA–966 in vitro. Grobaski KC, et al.
Br J Pharmacol 1997 Feb;120(4):575–80

Agonist pharmacology of two Drosophila GABA receptor splice variants. Hosie AM, et al. **Br J Pharmacol** 1996 Dec; 119(8):1577–85

Regulation of proopiomelanocortin gene expression by endogenous ligands of the GABAA receptor complex as evaluated by in situ hybridization in the rat pars intermedia. Garcia de Yebenes E, et al. **Brain Res** 1997 Mar 7; 750(1–2):277–84

GABAergic control of Arg–vasopressin release from suprachiasmatic nucleus slice culture. Isobe Y, et al.
Brain Res 1997 May 2;755(2):213–20

pH–dependent actions of THIP and ZAPA on an ionotropic Drosophila melanogaster GABA receptor. Matsuda K, et al. **Brain Res** 1996 Nov 11;739(1–2):335–8

Infusion of quinpirole and muscimol into the ventral tegmental area inhibits fear–potentiated startle: implications for the role of dopamine in fear expression. Munro LJ, et al. **Brain Res** 1997 Jan 23;746(1–2):231–8

Involvement of GABA(B) receptor systems in action of antidepressants: baclofen but not bicuculline attenuates the effects of antidepressants on the forced swim test in rats. Nakagawa Y, et al. **Brain Res** 1996 Feb 19;709(2):215–20

Involvement of GABAB receptor systems in experimental depression: baclofen but not bicuculline exacerbates helplessness in rats. Nakagawa Y, et al. **Brain Res** 1996 Nov 25;741(1–2):240–5

Intra–septal infusions of glucose potentiate inhibitory avoidance deficits when co–infused with the GABA agonist muscimol. Parent MB, et al. **Brain Res** 1997 Jan 16;745(1–2):317–20

Baclofen pretreatment attenuates the suppressant effect of intraperitoneal administration of cholecystokinin (CCK) on food intake in rats. Ebenezer IS. **Brain Res Bull** 1996; 41(5):269–71

Interaction among alfaxalone, pregnenolone sulfate, and two GABAA agonists on hippocampal slices. SanMartin S, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):427–31

Allosteric modulation by single enantiomers of a C3–chiral 1,4–benzodiazepine of the gamma aminobutyric acid type A receptor channel expressed in Xenopus oocytes. Demuro A, et al. **Chirality** 1997;9(3):286–90

Differential effects mediated by GABAA receptors in thalamic nuclei in lh/lh model of absence seizures. Hosford DA, et al. **Epilepsy Res** 1997 Apr;27(1):55–65

Prevention of kainic acid–induced limbic seizures and Fos expression by the GABA–A receptor agonist muscimol. Zhang X, et al. **Eur J Neurosci** 1997 Jan;9(1):29–40

L–701,324, a glycine/NMDA receptor antagonist, blocks the increase of cortical dopamine metabolism by stress and DMCM. Hutson PH, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):127–32

Actions of thienyl analogs of baclofen at GABA(B) receptors in rat neocortical slices. Ong J, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):133–6

Effects of diazepam, baclofen and thiopental on the silent period evoked by transcranial magnetic stimulation in humans. Inghilleri M, et al. **Exp Brain Res** 1996 Jun; 109(3):467–72

Behavioral changes induced by GABA–receptor agonists in Lymnaea stagnalis L. Romanova EV, et al.
Gen Pharmacol 1996 Sep;27(6):1067–71

Involvement of GABAB receptors in the antinociception induced by baclofen in the formalin test. Shafizadeh M, et al. **Gen Pharmacol** 1997 Apr;28(4):611–5

Anti–ulcerogenic activity of GABA and GABA mimetic agents in rats. Goel RK, et al. **Indian J Exp Biol** 1996 Aug;34(8):745–9

Administration of a GABAB agonist baclofen before running to exhaustion in the rat: effects on performance and on some indicators of fatigue. Abdelmalki A, et al.
Int J Sports Med 1997 Feb;18(2):75–8

GABA and neuroprotection. Lyden PD.
Int Rev Neurobiol 1997;40:233–58 (80 ref.)

Flunitrazepam has an inverse agonistic effect on recombinant alpha6beta2gamma2–GABAA receptors via a flunitrazepam–binding site. Hauser CA, et al.
J Biol Chem 1997 May 2;272(18):11723–7

Repression of gamma–aminobutyric acid type A receptor alpha1 polypeptide biosynthesis requires chronic agonist exposure. Miranda JD, et al. **J Biol Chem** 1997 Jun 27; 272(26):16288–94

GABAA receptor activation attenuates excitotoxicity but exacerbates oxygen–glucose deprivation–induced neuronal injury in vitro. Muir JK, et al.
J Cereb Blood Flow Metab 1996 Nov;16(6):1211–8

The GABAB–receptor antagonist, CGP 35348, antagonises gamma–hydroxybutyrate– and baclofen–induced alterations in locomotor activity and forebrain dopamine levels in mice. Nissbrandt H, et al. **J Neural Transm** 1996; 103(11):1255–63

Muscimol and midazolam do not potentiate each other's effects on sleep EEG in the rat. Lancel M, et al.
J Neurophysiol 1997 Mar;77(3):1624–9

Inhibition of transmitter release shortens the duration of the excitatory synaptic current at a calyceal synapse. Otis TS, et al. **J Neurophysiol** 1996 Nov;76(5):3584–8

Multiple postsynaptic actions of GABA via GABAB receptors on CA1 pyramidal cells of rat hippocampal slices. Pham TM, et al. **J Neurophysiol** 1996 Jul;76(1):69–80

Participation of caudal fastigial nucleus in smooth pursuit eye movements. II. Effects of muscimol inactivation. Robinson FR, et al. **J Neurophysiol** 1997 Aug;78(2):848–59

Baclofen inhibition of the hyperpolarization–activated cation current, Ih, in rat substantia nigra zona compacta neurons may be secondary to potassium current activation. Watts AE, et al. **J Neurophysiol** 1996 Oct;76(4):2262–70

Effects of gamma–aminobutyric acid agonists and N–methyl–D–aspartate antagonists on a multiple schedule of ethanol and saccharin self–administration in rats. Shelton KL, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1250–60

Effects of GABA agonists and antagonists on temperature–sensitive neurones in the rat hypothalamus. Yakimova K, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):217–30

Modulation of ganglion cell activity in the pineal gland of the rainbow trout: effects of cholinergic, catecholaminergic, and GABAergic receptor agonists. Brandstätter R, et al. **J Pineal Res** 1996 Sep;21(2):59–72

Changes in gain and spatiotemporal properties of the vestibulospinal reflex after injection of a GABA–A agonist in the cerebellar anterior vermis. Manzoni D, et al.
J Vestib Res 1997 Jan–Feb;7(1):7–20

Effects of GABA–B agonist baclofen on bronchial hyperreactivity to inhaled histamine in subjects with cervical spinal cord injury. Grimm DR, et al. **Lung** 1997; 175(5):333–41

GABA agonists and neurotransmitters metabolizing enzymes in steroid–primed OVX rats. Kaur G, et al.
Mol Cell Biochem 1997 Feb;167(1–2):107–11

Functional characterization of human gamma–aminobutyric acidA receptors containing the alpha 4 subunit. Wafford KA, et al. **Mol Pharmacol** 1996 Sep;50(3):670–8

Benzodiazepine prevention of swim stress–induced sensitization of cortical biogenic amines: an in vivo microdialysis study. Petty F, et al. **Neurochem Res** 1997 Sep;22(9):1101–4

Epipregnanolone acts as a partial agonist on a common neurosteroid modulatory site of the GABA(A) receptor complex in avian CNS. Pignataro L, et al.
Neurochem Res 1997 Feb;22(2):221–5

A functional comparison of the antagonists bicuculline and picrotoxin at recombinant GABAA receptors. Krishek BJ, et al. **Neuropharmacology** 1996;35(9–10):1289–98

Benzodiazepine and barbiturate ligands modulate responses of cultured hippocampal neurones to the GABAA receptor partial agonist, 4–PIOL. Kristiansen U, et al.
Neuropharmacology 1996;35(9–10):1181–91

Chronic administration of antipanic drugs alters rat brainstem GABAA receptor subunit mRNA levels. Tanay VA, et al. **Neuropharmacology** 1996;35(9–10):1475–82

The agonistic action of pentobarbital on GABAA beta–subunit homomeric receptors. Cestari IN, et al.
Neuroreport 1996 Mar 22;7(4):943–7

The GABAA agonist THIP (gaboxadol) increases non–REM sleep and enhances delta activity in the rat. Lancel M, et al. **Neuroreport** 1996 Sep 2;7(13):2241–5

CGP 35348 and CGP 55845A block the baclofen–induced depression of dorsal root evoked potentials in lumbar motoneurons of the neonatal rat. Vinay L, et al.
Neurosci Lett 1996 Aug 23;214(2–3):103–6

Effects of 5–(4–piperidyl) isoxazol–3–ol (4–PIOL), a GABA(A) receptor partial agonist, on recombinant human GABA(A) receptors. Westh–Hansen SE, et al.
Neurosci Lett 1997 Jul 11;230(1):45–8

Fos oncoprotein expression in the rat forebrain following muscimol–induced absence seizures. Zhang X, et al.
Neurosci Lett 1996 Jun 7;210(3):169–72

Muscimol–induced long–term depression in the hippocampus: lack of dependence on extracellular calcium. Akhondzadeh S, et al. **Neuroscience** 1996 Mar;71(2):581–8

The contribution of GABAB receptor–mediated events to inflammatory pain processing: carrageenan oedema and associated spinal c–Fos expression in the rat. Buritova J, et al. **Neuroscience** 1996 Jul;73(2):487–96

GABA(A) receptor–mediated inhibition in the nucleus ambiguus motoneuron. Yajima Y, et al. **Neuroscience** 1997 Aug;79(4):1079–88

Baclofen, a selective GABAB receptor agonist, dose–dependently impairs spatial learning in rats. McNamara RK, et al. **Pharmacol Biochem Behav** 1996 Feb; 53(2):303–8

Opposite influences of different adrenoceptors on baclofen–induced antinociception in mice. Sabetkasai M, et al. **Pharmacol Toxicol** 1997 Jan;80(1):6–10

Agonist–induced closure of constitutively open gamma–aminobutyric acid channels with mutated M2 domains. Pan ZH, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6490–5

The inhibitory effects on sexual behavior and ambulatory activity of the mixed GABAA/GABAB agonist progabide are differentially blocked by GABA receptor antagonists. Agmo A, et al. **Psychopharmacology (Berl)** 1997 Jan; 129(1):27–34

The GABAA agonist THIP produces slow wave sleep and reduces spindling activity in NREM sleep in humans. Faulhaber J, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(3):285–91

Baclofen suppression of cocaine self–administration: demonstration using a discrete trials procedure. Roberts DC, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(3):271–7

Potentiation by baclofen of gastric acid secretion stimulated by secretagogues in vagotomized rats under anesthesia. Lin W–C. **Res Commun Mol Pathol Pharmacol** 1996 Feb; 91(2):211–24

[Effect of muscimol on the delay in desensitization of GABA–receptor/Cl––ionophor complex induced by picrotoxin and bicuculline] Rebrov IB, et al.
Biull Eksp Biol Med 1996 Aug;122(8):144–7 **(Rus)**

[The loss of sensitivity of the respiratory system to carbon dioxide during activation of GABAergic brain structures] Tarakanov IA. **Biull Eksp Biol Med** 1997 Apr; 123(4):385–90 **(Rus)**

THERAPEUTIC USE

Intrathecal baclofen for severe torsion dystonia in a child. Paret G, et al. **Acta Paediatr** 1996 May;85(5):635–7

Baclofen for treatment of persistent hiccups in HIV–infected patients [letter] D'Alessandro DJ, et al. **AIDS** 1997 Jul; 11(8):1063–4

A double–blind controlled study of gabapentin and baclofen as treatment for acquired nystagmus. Averbuch–Heller L, et al. **Ann Neurol** 1997 Jun;41(6):818–25

Use of baclofen to suppress cough induced by angiotensin–converting enzyme inhibitors. Dicpinigaitis PV. **Ann Pharmacother** 1996 Nov;30(11):1242–5

Medical treatments for abnormal eye movements: pharmacological, optical and immunological strategies. Averbuch-Heller L, et al. **Aust N Z J Ophthalmol** 1997 Feb;25(1):7–13 (36 ref.)

Moderate anticonvulsant action of baclofen does not change during development. Kubová H, et al. **Biol Neonate** 1996; 69(6):405–12

Baclofen therapy for rigidity associated with Lewy body dementia [letter] Moutoussis M, et al. **Br J Psychiatry** 1996 Dec;169(6):795

Antitussive effect of the GABA-agonist baclofen. Dicpinigaitis PV, et al. **Chest** 1997 Apr;111(4):996–9

Isoniazid therapy in cerebellar ataxia [letter; comment] Raman PG, et al. **J Assoc Physicians India** 1995 May; 43(5):374, 377. Comment on: J Assoc Physicians India 1994 Nov;42(11):925–6.

Severe tardive dystonia: treatment with continuous intrathecal baclofen administration. Dressler D, et al. **Mov Disord** 1997 Jul;12(4):585–7

Innovations in pharmacologic therapies. Miaskowski C. **Semin Oncol Nurs** 1997 Feb;13(1):30–5 (44 ref.)

[The neuroprotective effect of GABA-ergic substances in cerebral ischemia] Kulinskii VI, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):56–8 (Eng. Abstr.) **(Rus)**

TOXICITY

Motor cortical muscimol injection disrupts forelimb movement in freely moving monkeys. Kubota K. **Neuroreport** 1996 Oct 2;7(14):2379–84

GABA ANTAGONISTS

Microperfusion of picrotoxin in the hippocampus of chronic freely moving rats through microdialysis probes: a new method of induce partial and secondary generalized seizures. Sierra-Paredes G, et al. **J Neurosci Methods** 1996 Aug;67(2):113–20

Novartis find sparks new GABA drug search [news] Eccleston A. **Nat Biotechnol** 1997 May;15(5):403–4

ADMINISTRATION & DOSAGE

Bicuculline administered into the amygdala after training blocks benzodiazepine-induced amnesia. Dickinson-Anson H, et al. **Brain Res** 1997 Mar 28;752(1–2):197–202

CHEMICAL SYNTHESIS

Synthesis and pharmacological characterization of aminocyclopentanetricarboxylic acids: new tools to discriminate between metabotropic glutamate receptor subtypes. Acher FC, et al. **J Med Chem** 1997 Sep 12; 40(19):3119–29

METABOLISM

Effects of methylprednisolone on the GABA- and glutamate-induced currents: relevance to glucocorticoid-induced neurotoxicity and brain aging. Foroutan A, et al. **Steroids** 1996 Jun;61(6):354–66

Metabotropic GABA(B) receptors cloned at last. Bowery NG. **Trends Pharmacol Sci** 1997 Apr;18(4):103 (6 ref.)

PHARMACOLOGY

Receptorpharmacological models for the therapy of labyrinthine vertigo. Ehrenberger K, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):189–91

Influence of picrotoxin and strychnine on the spectral sensitivity of the turtle ERG b- and d-wave: I. Dark adaptation. Kupenova P, et al. **Acta Physiol Scand** 1997 Mar;159(3):217–25

Influence of picrotoxin and strychnine on the spectral sensitivity of the turtle ERG b- and d-waves: II. Light adaptation. Vitanova L, et al. **Acta Physiol Scand** 1997 Mar; 159(3):227–35

Opposite effects of GABAA and NMDA receptor antagonists on ethanol-induced behavioral sleep in rats. Beleslin DB, et al. **Alcohol** 1997 Mar-Apr;14(2):167–73

Roles of GABAergic inhibition for the binaural processing of multiple sound sources in the inferior colliculus. Pollak GD. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:44–54

The GABAB receptor antagonist CGP 36,742 and the nootropic oxiracetam facilitate the formation of long-term memory. Mondadori C, et al. **Behav Brain Res** 1996 May; 77(1–2):223–5

CGP 36,742, an orally active GABAB receptor antagonist, facilitates memory in a social recognition test in rats. Mondadori C, et al. **Behav Brain Res** 1996 May; 77(1–2):227–9

Optokinetic and vestibulo-ocular reflex adjustment by GABA antagonists. Reber A, et al. **Behav Brain Res** 1996 Nov;81(1–2):89–97

Bicuculline microinjections into the ventral tegmental area of the rat: alteration of self-stimulation thresholds and of cytochrome oxidase activity in the brain. Sandner G, et al. **Behav Brain Res** 1996 Sep;79(1–2):145–51

Self-infusion of GABA(A) antagonists directly into the ventral tegmental area and adjacent regions. Ikemoto S, et al. **Behav Neurosci** 1997 Apr;111(2):369–80

The effects of inhibitors of GABAergic transmission and stress on brain and plasma allopregnanolone concentrations. Barbaccia ML, et al. **Br J Pharmacol** 1997 Apr; 120(8):1582–8

Electrophysiological actions of GABAB agonists and antagonists in rat dorso-lateral septal neurones in vitro. Bon C, et al. **Br J Pharmacol** 1996 Jun;118(4):961–7

Measurement of GABAA receptor function in rat cultured cerebellar granule cells by the Cytosensor microphysiometer. Brown MJ, et al. **Br J Pharmacol** 1997 May;121(1):71–6

Actions of picrodendrin antagonists on dieldrin-sensitive and -resistant Drosophila GABA receptors. Hosie AM, et al. **Br J Pharmacol** 1996 Dec;119(8):1569–76

Evidence for direct and indirect mechanisms in the potent modulatory action of interleukin-2 on the release of acetylcholine in rat hippocampal slices. Seto D, et al. **Br J Pharmacol** 1997 Mar;120(6):1151–7

GABA, glutamate and substance P-like immunoreactivity release: effects of novel GABAB antagonists. Teoh H, et al. **Br J Pharmacol** 1996 Jul;118(5):1153–60

Picrotoxin-sensitive receptors mediate gamma-aminobutyric acid-induced modulation of synaptic plasticity in rat superior cervical ganglion. González Burgos GR, et al. **Brain Res** 1997 Mar 14;751(1):148–51

The role of amygdala and hypothalamus in GABAA antagonist bicuculline-induced cardiovascular responses in conscious rats. Gören Z, et al. **Brain Res** 1996 May 25; 722(1–2):118–24

Tigabine hydrochloride, an inhibitor of gamma-aminobutyric acid (GABA) uptake, induces cortical depolarizations in vitro. Hu RQ, et al. **Brain Res** 1997 Apr 11;753(2):260–8

GABAergic control of Arg-vasopressin release from suprachiasmatic nucleus slice culture. Isobe Y, et al. **Brain Res** 1997 May 2;755(2):213–20

The effects of GABAA receptor blockade in the dorsomedial hypothalamic nucleus on corticotrophin (ACTH) and corticosterone secretion in male rats. Keim SR, et al. **Brain Res** 1996 Nov 11;739(1–2):46–51

Involvement of GABAB receptor systems in experimental depression: baclofen but not bicuculline exacerbates helplessness in rats. Nakagawa Y, et al. **Brain Res** 1996 Nov 25;741(1–2):240–5

Involvement of GABA(B) receptor systems in action of antidepressants: baclofen but not bicuculline attenuates the effects of antidepressants on the forced swim test in rats. Nakagawa Y, et al. **Brain Res** 1996 Feb 19;709(2):215–20

Roles of monoaminergic, glycinergic and GABAergic inhibitory systems in the spinal cord in rats with peripheral mononeuropathy. Satoh O, et al. **Brain Res** 1996 Jul 22; 728(1):27–36

The selective GABAB antagonist CGP-35348 blocks spike-wave bursts in the cholesterol synthesis rat absence epilepsy model. Smith KA, et al. **Brain Res** 1996 Aug 12; 729(2):147–50

Antinociception produced by systemic R(+)-baclofen hydrochloride is attenuated by CGP 35348 administered to the spinal cord or ventromedial medulla of rats. Thomas DA, et al. **Brain Res** 1996 Apr 29;718(1–2):129–37

Mechanism of colchicine impairment on learning and memory, and protective effect of CGP36742 in mice. Yu Z, et al. **Brain Res** 1997 Mar 7;750(1–2):53–8

Effects of the GABAB antagonist CGP 35348 on sleep-wake states, behaviour, and spike-wave discharges in old rats. Puigcerver A, et al. **Brain Res Bull** 1996;40(3):157–62

Involvement of the caudal striatum in auditory processing: c-fos response to cortical application of picrotoxin and to auditory stimulation. Arnauld E, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):27–35

Locomotor-related presynaptic modulation of primary afferents in the lamprey. El Manira A, et al. **Eur J Neurosci** 1997 Apr;9(4):696–705

Unsaturated phosphinic analogues of gamma-aminobutyric acid as GABA(C) receptor antagonists. Chebib M, et al. **Eur J Pharmacol** 1997 Jun 25;329(2–3):223–9

Study of paired-pulse inhibition of transcallosal response in the pyramidal tract neuron in vivo. Chowdhury SA, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):313–7

Inhibition of [3H] gamma-aminobutyric acid release by kainate receptor activation in rat hippocampal synaptosomes. Cunha RA, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):167–72

Steroid inhibition of [3H]SR 95531 binding to the GABAA recognition site. Hawkinson JE, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):141–6

GABAB receptor antagonism by resolved (R)-saclofen in the guinea-pig ileum. Kerr DI, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):R1–2

Bicuculline induces ictal seizures in the intact hippocampus recorded in vitro. Khalilov I, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):R5–6

Effects of GABA receptor antagonists injected spinally on antinociception induced by opioids administered supraspinally in mice. Suh HW, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):141–7

The differential antagonism by bicuculline and SR95531 of pentobarbitone-induced currents in cultured hippocampal neurons. Uchida I, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):89–96

Effects of clozapine metabolites and chronic clozapine treatment on rat brain GABAA receptors. Wong G, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):319–23

Behavioural responsiveness to picrotoxin and desipramine in adult rats prenatally exposed to different benzodiazepine receptor agonists. Cannizzaro C, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):523–6

Sex differences in the response to GABA antagonists depend on the route of drug administration. Pericić D, et al. **Exp Brain Res** 1997 Jun;115(1):187–90

Bicuculline-induced circling from the rat superior colliculus is blocked by GABA microinjection into the deep cerebellar nuclei. Speller JM, et al. **Exp Brain Res** 1996 Aug;110(3):425–34

Effect of brain acetylcholine depletion on bicuculline-induced cardiovascular and locomotor responses. Tellioğlu T, et al. **Int J Neurosci** 1997 Feb; 89(3–4):143–52

Evidence that nitric oxide mediates non-adrenergic non-cholinergic relaxation induced by GABA and electrical stimulation in the rat isolated duodenum. Kaputlu I, et al. **J Auton Pharmacol** 1996 Aug;16(4):177–82

The GABAB-receptor antagonist, CGP 35348, antagonises gamma-hydroxybutyrate- and baclofen-induced alterations in locomotor activity and forebrain dopamine levels in mice. Nissbrandt H, et al. **J Neural Transm** 1996; 103(11):1255–63

Modulation of GABAA receptor tert-[35S]butylbicyclophosphorothionate binding by antagonists: relationship to patterns of subunit expression. Korpi ER, et al. **J Neurochem** 1996 May;66(5):2179–87

Blocking GABA(A) inhibition reveals AMPA- and NMDA-receptor-mediated polysynaptic responses in the CA1 region of the rat hippocampus. Crépel V, et al. **J Neurophysiol** 1997 Apr;77(4):2071–82

Application of the GABA antagonist bicuculline to the premotor cortex reduces the ability to withhold reaching movements by well-trained monkeys in visually guided reaching task. Sawaguchi T, et al. **J Neurophysiol** 1996 May;75(5):2150–6

Localization of rhythmogenic networks responsible for spontaneous bursts induced by strychnine and bicuculline in the rat isolated spinal cord. Bracci E, et al. **J Neurosci** 1996 Nov 1;16(21):7063–76

GABAB receptors, monoamine receptors, and postsynaptic inositol trisphosphate-induced Ca2+ release are involved in the induction of long-term potentiation at visual cortical inhibitory synapses. Komatsu Y. **J Neurosci** 1996 Oct 15; 16(20):6342–52

Modulation by adenosine of GABA-activated current in rat dorsal root ganglion neurons. Hu HZ, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):67–75

Mechanisms underlying orientation selectivity of neurons in the primary visual cortex of the macaque. Sato H, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):757–71

Effects of GABA agonists and antagonists on temperature-sensitive neurones in the rat hypothalamus. Yakimova K, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):217–30

Effect of beta-carboline-3-carboxoylate-t-butyl ester on ventilatory control. Greenberg HE, et al. **Life Sci** 1997; 60(7):485–92

GABA(A) antagonist and nicotine-induced antinociception. Mui WC, et al. **Life Sci** 1997;61(15):PL 221–5

Involvement of supraspinal GABA-ergic systems in clonidine-induced antinociception in the tail-pinch test in mice. Nguyen TT, et al. **Life Sci** 1997;61(11):1097–103

Design and in vitro pharmacology of a selective gamma-aminobutyric acidC receptor antagonist. Ragozzino D, et al. **Mol Pharmacol** 1996 Oct;50(4):1024–30

Functional characterization of human gamma-aminobutyric acidA receptors containing the alpha 4 subunit. Wafford KA, et al. **Mol Pharmacol** 1996 Sep;50(3):670–8

Regional differences in NaCl-induced increase of the potency of bicuculline to displace [3H]muscimol binding. Bujas M, et al. **Neurochem Int** 1997 Feb;30(2):199–202

Effects of the antidepressant pirlindole and its dehydro-derivative on the activity of monoamine oxidase-A and on GABAA receptors. Medvedev AE, et al. **Neurochem Res** 1996 Dec;21(12):1521–6

Clozapine and some other antipsychotic drugs may preferentially block the same subset of GABA(A) receptors. Squires RF, et al. **Neurochem Res** 1997 Feb; 22(2):151–62

Isoniazid-induced inhibition of GABAergic transmission enhances neurosteroid content in the rat brain. Barbaccia ML, et al. **Neuropharmacology** 1996;35(9–10):1299–305

Evidence that a hybrid molecule of norfloxacin and biphenylacetic acid is a potent antagonist at the GABAA receptor. Imanishi T, et al. **Neuropharmacology** 1996; 35(9–10):1271–7

A functional comparison of the antagonists bicuculline and picrotoxin at recombinant GABAA receptors. Krishek BJ, et al. **Neuropharmacology** 1996;35(9–10):1289–98

Distinct deactivation and desensitization kinetics of recombinant GABAA receptors. Tia S, et al. **Neuropharmacology** 1996;35(9–10):1375–82

Excitatory acoustic responses in the inferior colliculus of the rat are increased by GABAB receptor blockade. Vaughn MD, et al. **Neuropharmacology** 1996;35(12):1761–7

Effects of pentylenetetrazol on GABA receptors expressed in oocytes of Xenopus laevis: extra- and intracellular sites of action. Bloms-Funke P, et al. **Neurosci Lett** 1996 Feb 23;205(2):115–8

Cardiorespiratory response to bicuculline during resistive loaded breathing in anesthetized rabbits. Delpierre S, et al. **Neurosci Lett** 1996 Jul 26;213(1):13–6

GABA(B) receptor blockade reduces resistive

loading-induced hypoventilation in anesthetized rabbits. Delpierre S, et al. **Neurosci Lett** 1997 Apr 25;226(2):83-6

The effect of GABA and 5-HT receptor antagonists on rat dorsal root potentials. Thompson SW, et al. **Neurosci Lett** 1996 Oct 18;217(2-3):153-6

CGP 35348 and CGP 55845A block the baclofen-induced depression of dorsal root evoked potentials in lumbar motoneurons of the neonatal rat. Vinay L, et al. **Neurosci Lett** 1996 Aug 23;214(2-3):103-6

GABAergic characteristics of transcallosal activity of cat motor cortical neurons. Chowdhury SA, et al. **Neurosci Res** 1996 Dec;26(4):323-33

Hippocampal long-term potentiation and spatial learning in the rat: effects of GABAB receptor blockade. Brucato FH, et al. **Neuroscience** 1996 Sep;74(2):331-9

Tonic activation of presynaptic GABA(B) receptors on thalamic sensory afferents. Emri Z, et al. **Neuroscience** 1996 Jun;72(3):689-98

Morphological and electrophysiological characterization of layer III cells of the medial entorhinal cortex of the rat. Gloveli T, et al. **Neuroscience** 1997 Apr;77(3):629-48

Shortened-duration GABA(A) receptor-mediated synaptic potentials underlie enhanced CA1 excitability in a chronic model of temporal lobe epilepsy. Mangan PS, et al. **Neuroscience** 1997 Oct;80(4):1101-11

Endogenous opioids acting at a medullary mu-opioid receptor contribute to the behavioral antinociception produced by GABA antagonism in the midbrain periaqueductal gray. Roychowdhury SM, et al. **Neuroscience** 1996 Oct;74(3):863-72

GABA(A) receptor-mediated inhibition in the nucleus ambiguus motoneuron. Yajima Y, et al. **Neuroscience** 1997 Aug;79(4):1079-88

Novel azole derivatives are antagonists at the inhibitory GABA receptor on the somatic muscle cells of the parasitic nematode Ascaris suum. Bascal Z, et al. **Parasitology** 1996 Feb;112 (Pt 2):253-9

Discriminative stimulus effects of flumazenil in rhesus monkeys treated chronically with chlordiazepoxide. France CP, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):447-55

Blockade of behavioral effects of bretazenil by flumazenil and ZK 93,426 in pigeons. Witkin JM, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):1-7

GABAA receptor antagonists reduce acute opiate withdrawal in isolated tissue. Capasso A, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb; 21(2):315-30

Self-administration of the GABAA antagonist bicuculline into the ventral tegmental area in mice: dependence on D2 dopaminergic mechanisms. David V, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):85-90

The effects of a benzodiazepine receptor antagonist beta-carboline ZK-93426 on scopolamine-induced impairment on attention, memory and psychomotor skills. Duka T, et al. **Psychopharmacology (Berl)** 1996 Feb; 123(4):361-73

Mechanisms of action of antiepileptic drugs. Davies JA. **Seizure** 1995 Dec;4(4):267-71 (28 ref.)

Presynaptic and postsynaptic GABAB receptors of neocortical neurons of the rat in vitro: differences in pharmacology and ionic mechanisms. Deisz RA, et al. **Synapse** 1997 Jan;25(1):62-72

GABAA and GABAB receptors differentially regulate synaptic transmission in the auditory thalamo-amygdala pathway: an in vivo microiontophoretic study and a model. Li XF, et al. **Synapse** 1996 Oct;24(2):115-24

GABA and its receptors in the spinal cord. Malcangio M, et al. **Trends Pharmacol Sci** 1996 Dec;17(12):457-62 (59 ref.)

Correlation between a bicuculline-resistant response to GABA and GABAA receptor rho 1 subunit expression in single rat retinal bipolar cells. Yeh HH, et al. **Vis Neurosci** 1996 Mar-Apr;13(2):283-92

[Evoked somatosensory potentials in the baboon: intracortical localization and nature studies using pharmacology and analysis of sources of current] el Kharroussi M, et al. **Neurophysiol Clin** 1996;26(3):143-57 (Eng. Abstr.) **(Fre)**

[A study of the effects of antidepressants on the GABAA receptor and its complex based on the drug actions on the power-spectral changes of rat hippocampal EEG induced by GABA antagonists and inverse agonists] Matsubara M, et al. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1997 Apr; 17(2):75-83 (Eng. Abstr.) **(Jpn)**

[Effect of muscimol on the delay in desensitization of GABA-receptor/Cl—ionophor complex induced by picrotoxin and bicuculline] Rebrov IB, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):144-7 **(Rus)**

[The effect of multiple administrations of GABA and bicuculline into the rat neostriatum on the realization of a food-acquisition habit] Iakimovskiĭ AF. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):521-6 (Eng. Abstr.) **(Rus)**

[Neuropharmacology of a new model of partial epilepsy: GABA withdrawal syndrome] Brailowski S. **Gac Med Mex** 1994 Jul-Aug;130(4):259-64 (Eng. Abstr.) **(Spa)**

POISONING

[The effect of perftoran on the resistance of mice to GABA receptor antagonists and on the antidote activity of anticonvulsant agents] Golovko AI, et al. **Eksp Klin Farmakol** 1996 Nov-Dec;59(6):34-7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Receptorpharmacological models for the therapy of labyrinthine vertigo. Ehrenberger K, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):189-91

Double-blind trial of flumazenil in hemiballismus. Kulisevsky J, et al. **Clin Neuropharmacol** 1994 Oct;17(5):470-2

Mechanisms of action of antiepileptic drugs. Davies JA. **Seizure** 1995 Dec;4(4):267-71 (28 ref.)

Medical therapy for intracerebral hematoma with the gamma-aminobutyric acid-A agonist muscimol. Lyden PD, et al. **Stroke** 1997 Feb;28(2):387-91

GABA-B RECEPTORS see **RECEPTORS, GABA-B**

GABA MODULATORS

see related
ANESTHETICS, GENERAL
ANTI-ANXIETY AGENTS, BENZODIAZEPINE
SEDATIVES, BARBITURATE

Diazepam physical dependence and withdrawal in rats is associated with alteration in GABAA receptor function. Toki S, et al. **Life Sci** 1996;59(19):1631-41

ADMINISTRATION & DOSAGE

Improvement of hypertonus after treatment for sleep disturbances in three patients with severe brain damage. Tanaka H, et al. **Brain Dev** 1997 Jun;19(4):240-4

Intravenous flumazenil following prolonged exposure to lormetazepam in humans: lack of precipitated withdrawal. Gerra G, et al. **Int Clin Psychopharmacol** 1996 Jun; 11(2):81-8

[Sedation in endoscopic diagnosis: rationale of the use of specific benzodiazepine antagonists] Chillemi S, et al. **G Chir** 1996 Jun-Jul;17(6-7):349-52 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Clonazepam-related sexual dysfunction in male veterans with PTSD. Fossey MD, et al. **Anxiety** 1994-95;1(5):233-6

Changes in glutamate receptors, c-fos mRNA expression and activator protein-1 (AP-1) DNA binding activity in the brain of phenobarbital-dependent and -withdrawn rats. Tanaka S, et al. **Brain Res** 1997 May 9;756(1-2):35-45

Clonazepam induced delirium in Bosnia [letter] Fish DE, et al. **Mil Med** 1997 Feb;162(2):iii

Progesterone modulation of diazepam withdrawal syndrome in mice. Pesce ME, et al. **Pharmacol Toxicol** 1996 Dec; 79(6):331-3

The realities of clonazepam discontinuation. Freeman S. **Psychiatr Serv** 1997 Jul;48(7):881-2

[A case of convulsion induced by flumazenil] Taki H, et al. **Masui** 1996 Oct;45(10):1247-51 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Testing human hair for flunitrazepam and 7-amino-flunitrazepam by GC/MS-NCI. Cirimele V, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):189-200

BLOOD

Quantitative determination of imidazenil, a novel imidazobenzodiazpine carboxamide derivative, by normal phase high-performance liquid chromatography. Mariot R, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23; 677(1):190-3

CHEMISTRY

3 alpha-Hydroxy-3 beta-(phenylethynyl)-5 beta-pregnan-20-ones: synthesis and pharmacological activity of neuroactive steroids with high affinity for GABAA receptors. Upasani RB, et al. **J Med Chem** 1997 Jan 3;40(1):73-84

DIAGNOSTIC USE

Absence of neglect for mental representations during the intracarotid amobarbital procedure. Manoach DS, et al. **Arch Neurol** 1996 Apr;53(4):333-6

A pilot controlled study of the effects of flumazenil in posttraumatic stress disorder. Coupland NJ, et al. **Biol Psychiatry** 1997 May 1;41(9):988-90

Parametric images of benzodiazepine receptor concentration using a partial-saturation injection. Delforge J, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):343-55

Screening for cytochrome P450 3A in man: studies with midazolam and nifedipine. Yeates RA, et al. **J Pharm Pharmacol** 1996 Sep;48(9):933-4

METABOLISM

Pharmacological profile of benzodiazepine site ligands with recombinant GABAA receptor subtypes. Graham D, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):119-25

Pharmacological characterisation of multiple components in the enhancement by pregnanolone and propofol of [3H]flunitrazepam binding to GABAA receptors. Zhong Y, et al. **Neuropharmacology** 1996;35(9-10):1193-8

Receptor imaging technique with 11C-labeled receptor ligands in living brain slices: its application to time-resolved imaging and saturation analysis of benzodiazepine receptor using [11C]Ro15-1788. Murata T, et al. **Neurosci Res** 1996 Jun;25(2):145-54

Fluoxetine-elicited changes in brain neurosteroid content measured by negative ion mass fragmentography. Uzunov DP, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12599-604

Glutamate and benzodiazepine receptor autoradiography in rat brain after repetition of alcohol dependence. Ulrichsen J, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):31-41

Alterations of benzodiazepine receptor binding potential in anxiety and somatoform disorders measured by 123I-iomazenil SPECT. Tokunaga M, et al. **Radiat Med** 1997 May-Jun;15(3):163-9

PHARMACOKINETICS

Quantitative autoradiography using selective radioligands for central and peripheral-type benzodiazepine receptors in experimental Wernicke's encephalopathy: implications for positron emission tomography imaging. Leong DK, et al. **Alcohol Clin Exp Res** 1996 May;20(3):601-5

Relationship between single oral dose pharmacokinetics of alprazolam and triazolam. Otani K, et al. **Int Clin Psychopharmacol** 1997 May;12(3):153-7

Identification of domains in human recombinant GABAA receptors that are photoaffinity labelled by [3H]flunitrazepam and [3H]Ro15-4513. Davies M, et al. **Neuropharmacology** 1996;35(9-10):1199-208

A pilot pharmacokinetic-pharmacodynamic study of benzodiazepine antagonism by flumazenil and aminophylline. Bonfiglio MF, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1166-72

Lymphatic bioavailability of diazepam and desmethyldiazepam in the rat. Lamka J, et al. **Physiol Res** 1996;45(1):23-9

PHARMACOLOGY

The effects of allopregnanolone, pregnenolone sulphate and pregnenolone on the CA1 population spike of the rat hippocampus after 17 beta-oestradiol priming. Wang MD, et al. **Acta Physiol Scand** 1997 Apr;159(4):343-4

Indole and (E)-2-hexenal, phytochemical potentiators of polymyxins against Pseudomonas aeruginosa and Escherichia coli. Kubo A, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1438-41

Molecular mechanisms of benzodiazepine-induced down-regulation of GABAA receptor alpha 1 subunit protein in rat cerebellar granule cells. Brown MJ, et al. **Br J Pharmacol** 1996 Jul;118(5):1103-10

Measurement of GABAA receptor function in rat cultured cerebellar granule cells by the Cytosensor microphysiometer. Brown MJ, et al. **Br J Pharmacol** 1997 May;121(1):71-6

Functional correlation between allopregnanolone and [35S]-TBPS binding in the brain of rats exposed to isoniazid, pentylenetetrazol or stress. Concas A, et al. **Br J Pharmacol** 1996 Jun;118(4):839-46

Allosteric modulation of an expressed homo-oligomeric GABA-gated chloride channel of Drosophila melanogaster. Hosie AM, et al. **Br J Pharmacol** 1996 Mar; 117(6):1229-37

Effect of SB-205384 on the decay of GABA-activated chloride currents in granule cells cultured from rat cerebellum. Meadows HJ, et al. **Br J Pharmacol** 1997 Aug; 121(7):1334-8

Barbiturate interactions at the human GABAA receptor: dependence on receptor subunit combination. Thompson SA, et al. **Br J Pharmacol** 1996 Feb;117(3):521-527

Flumazenil reverses the decrease in the hypnotic activity of pentobarbital by social isolation stress: are endogenous benzodiazepine receptor ligands involved? Ojima K, et al. **Brain Res** 1997 Jan 16;745(1-2):127-33

Gonadotropin releasing hormone modulates gamma-aminobutyric acid-evoked intracellular calcium increase in immortalized hypothalamic gonadotropin releasing hormone neurons. Sun W, et al. **Brain Res** 1997 Jan 30;747(1):70-7

Effects of GABA uptake inhibitors on posthypoxic myoclonus in rats. Jaw SP, et al. **Brain Res Bull** 1996; 39(3):189-92

Amphetamine-induced preprodynorphin mRNA expression and kappa-opioid receptor binding in basal ganglia of adult rats after prenatal exposure to diazepam. Inderbitzin S, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):114-24

Down-regulation of the GABA receptor subunits mRNA levels in mammalian cultured cortical neurons following chronic neurosteroid treatment. Yu R, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):163-8

Modulatory effects of gonadorelin on GABA-induced depolarization and GABA-activated current in rat spinal ganglion neurons. Zhou XP, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):31-4

Antagonism of AND and AND-OR drug mixture discriminations in rats. Mariathasan EA, et al. **Drug Alcohol Depend** 1997 Jan 10;44(1):31-4

Differential effects mediated by GABAA receptors in thalamic nuclei in lh/lh model of absence seizures. Hosford DA, et al. **Epilepsy Res** 1997 Apr;27(1):55-65

Chronic ethanol exposure selectively increases diazepam-insensitive [3H]RO15-4513 binding in mouse cerebellum. Becker HC, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):43-6

Hyperphagia induced by direct administration of midazolam into the parabrachial nucleus of the rat. Higgs S, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):1–9

Tolerance to the ataxic effects of diazepam in guinea pig is not associated with a reduced sensitivity of GABAA receptors in the vestibular nucleus. Hutchinson MA, et al. **Eur J Pharmacol** 1996 Apr 22;301(1–3):83–90

Anxiogenic–like effect of the neuropeptide Y Y1 receptor antagonist BIBP3226: antagonism with diazepam. Kask A, et al. **Eur J Pharmacol** 1996 Dec 19;317(2–3):R3–4

Propofol and flurazepam act synergistically to potentiate GABAA receptor activation in human recombinant receptors. Reynolds JN, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):151–6

Successive negative contrast in one–way avoidance: effect of thiopental sodium and chlorpromazine. Torres C, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):269–75

The differential antagonism by bicuculline and SR95531 of pentobarbitone–induced currents in cultured hippocampal neurons. Uchida I, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):89–96

Effects of diazepam, baclofen and thiopental on the silent period evoked by transcranial magnetic stimulation in humans. Inghilleri M, et al. **Exp Brain Res** 1996 Jun; 109(3):467–72

Potentiation by ethanol of GABA–induced current and facilitation of its desensitization in cultured rat cortical neurons. Tsujiyama S, et al. **Gen Pharmacol** 1997 Mar; 28(3):375–80

Wolff Award 1996. The actions of valproate and neurosteroids in a model of trigeminal pain. Cutrer FM, et al. **Headache** 1996 Nov–Dec;36(10):579–85

Effects of (–)–baclofen, clonazepam, and diazepam on tone exposure–induced hyperexcitability of the inferior colliculus in the rat: possible therapeutic implications for pharmacological management of tinnitus and hyperacusis. Szczepaniak WS, et al. **Hear Res** 1996 Aug;97(1–2):46–53

The effects of midazolam and flumazenil on psychomotor function. Gupta A, et al. **J Clin Anesth** 1997 Feb;9(1):21–5

Electrophysiological evidence for agonist properties of flumazenil, a benzodiazepine receptor antagonist, in rat hippocampus slices. Buldakova S, et al. **J Neurol Sci** 1997 Aug;149(2):121–6

GABAA receptor function in developing rat thalamic reticular neurons: whole cell recordings of GABA–mediated currents and modulation by clonazepam. Gibbs JW 3rd, et al. **J Neurophysiol** 1996 Oct;76(4):2568–79

Muscimol and midazolam do not potentiate each other's effects on sleep EEG in the rat. Lancel M, et al. **J Neurophysiol** 1997 Mar;77(3):1624–9

Silent GABAA synapses during flurazepam withdrawal are region–specific in the hippocampal formation. Poisbeau P, et al. **J Neurosci** 1997 May 15;17(10):3467–75

Characterization of the anticonvulsant properties of ganaxolone (CCD 1042; 3alpha–hydroxy–3beta–methyl–5alpha–pregnan–20–one), a selective, high–affinity, steroid modulator of the gamma–aminobutyric acid(A) receptor. Carter RB, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1284–95

Allopregnanolone affects sleep in a benzodiazepine–like fashion. Lancel M, et al. **J Pharmacol Exp Ther** 1997 Sep; 282(3):1213–8

Direct activation of GABAA receptors by barbiturates in cultured rat hippocampal neurons. Rho JM, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):509–22

Influence of anxiolytic drugs on the effects of specific serotonin reuptake inhibitors in the forced swimming test in mice. Da–Rocha MA Jr, et al. **J Psychopharmacol (Oxf)** 1997;11(3):211–8

Sleeping time after phenobarbital treatment and the brain levels of gamma–aminobutyric acid and phenobarbital at the regaining of righting response point in ethionine–induced liver–disordered mice. Noguchi M, et al. **J Toxicol Sci** 1996 May;21(2):113–23

Gene knockout of the alpha6 subunit of the gamma–aminobutyric acid type A receptor: lack of effect on responses to ethanol, pentobarbital, and general anesthetics. Homanics GE, et al. **Mol Pharmacol** 1997 Apr; 51(4):588–96

Pharmacological modulation of the diazepam–insensitive recombinant gamma–aminobutyric acidA receptors alpha 4 beta 2 gamma 2 and alpha 6 beta 2 gamma 2. Knoflach F, et al. **Mol Pharmacol** 1996 Nov;50(5):1253–61

Pharmacology of the human gamma–aminobutyric acidA receptor alpha 4 subunit expressed in Xenopus laevis oocytes. Whittemore ER, et al. **Mol Pharmacol** 1996 Nov; 50(5):1364–75

Hippocampal GABA(A) channel conductance increased by diazepam. Eghbali M, et al. **Nature** 1997 Jul 3; 388(6637):71–5

Modulation of human recombinant GABAA receptors by pregnanediols. Belelli D, et al. **Neuropharmacology** 1996; 35(9–10):1223–31

Midazolam inhibits long–term potentiation through modulation of GABAA receptors. Evans MS, et al. **Neuropharmacology** 1996 Mar;35(3):347–57

A behavioural and neurochemical study in rats of the pharmacology of loreclezole, a novel allosteric modulator of the GABAA receptor. Green AR, et al. **Neuropharmacology** 1996;35(9–10):1243–50

Pharmacological properties of recombinant "diazepam–insensitive" GABAA receptors. Gunnersen D, et al. **Neuropharmacology** 1996;35(9–10):1307–14

The anaesthetic action and modulation of GABAA receptor activity by the novel water–soluble aminosteroid Org 20599. Hill–Venning C, et al. **Neuropharmacology** 1996; 35(9–10):1209–22

Chronic treatment with diazepam or abecarnil differently affects the expression of GABAA receptor subunit mRNAs in the rat cortex. Holt RA, et al. **Neuropharmacology** 1996; 35(9–10):1457–63

Benzodiazepine and barbiturate ligands modulate responses of cultured hippocampal neurones to the GABAA receptor partial agonist, 4–PIOL. Kristiansen U, et al. **Neuropharmacology** 1996;35(9–10):1181–91

Direct evidence for diazepam modulation of GABAA receptor microscopic affinity. Lavoie AM, et al. **Neuropharmacology** 1996;35(9–10):1383–92

Reversible modification of GABAA receptor subunit mRNA expression during tolerance to diazepam–induced cognition dysfunction. Longone P, et al. **Neuropharmacology** 1996; 35(9–10):1465–73

Physiological comparison of alpha–ethyl–alpha–methyl–gamma–thiobutyrolactone with benzodiazepine and barbiturate modulators of GABAA receptors. Mathews GC, et al. **Neuropharmacology** 1996 Feb;35(2):123–36

Modulation of synaptic GABAA receptor function by benzodiazepines in area CA3 of rat hippocampal slice cultures. Poncer JC, et al. **Neuropharmacology** 1996; 35(9–10):1169–79

Presynaptic GABAB–and gamma–hydroxybutyric acid–mediated mechanisms in generalized absence seizures. Snead OC 3rd. **Neuropharmacology** 1996 Mar;35(3):359–67

Hypnotic and hypothermic effects of melatonin on daytime sleep in humans: lack of antagonism by flumazenil. Nave R, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):123–6

Regional differences in the depressant effects of midazolam on excitatory synaptic transmission in the rat hippocampus. Sato Y, et al. **Neurosci Lett** 1997 Feb 28;223(3):181–4

Temporal dynamics of glutamate efflux in the prefrontal cortex and in the hippocampus following repeated stress: effects of pretreatment with saline or diazepam. Bagley J, et al. **Neuroscience** 1997 Mar;77(1):65–73

Influence of sympathetic activity, temperature, ischemia and diazepam on thermal and vibration thresholds. Meh D, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R305–6

The effects of pentobarbital on spatial learning, motor coordination, and exploration. Beaudin S, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):111–4

Phenobarbital sensitivity in HAS and LAS rats before and after chronic administration of ethanol. Draski LJ, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):651–7

Anticonflict effect of alpidem as compared with the benzodiazepine alprazolam in rats. Hascoët M, et al. **Pharmacol Biochem Behav** 1997 Feb;56(2):317–24

Effects of triazolam and diazepam on learning and memory as assessed using a water maze. Kant GJ, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):317–22

On mouse pups and their lactating dams: behavioral consequences of early exposure to oxazepam and interacting factors. Laviola G. **Pharmacol Biochem Behav** 1996 Dec;55(4):459–74 (130 ref.)

Ethanol– and diazepam–induced cytochrome oxidase activity in mammillary bodies. Rubio S, et al. **Pharmacol Biochem Behav** 1996 Oct;55(2):309–14

Diazepam modulates the period of locomotor rhythm in mice (Mus booduga) and attenuates light–induced phase advances. Subramanian P, et al. **Pharmacol Biochem Behav** 1996 Jun;54(2):393–8

Dorsal raphe and substantia nigra response to flumazenil in diazepam–dependent rats. Wala EP, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):221–9

Blockade of behavioral effects of bretazenil by flumazenil and ZK 93,426 in pigeons. Witkin JM, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):1–7

A pilot pharmacokinetic–pharmacodynamic study of benzodiazepine antagonism by flumazenil and aminophylline. Bonfiglio MF, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1166–72

Bidirectional modulation of sweet and bitter taste by chlordiazepoxide and Ro 15–4513: lack of effect with GABA drugs. Petry NM, et al. **Physiol Behav** 1997 Jan; 61(1):119–26

Liver, plasma and erythrocyte phospholipid content after chronic diazepam treatment in the rat. Vrbaški SR, et al. **Physiol Res** 1996;45(1):47–50

Effects of opioid antagonists on anticonvulsant and hypnotic activity of benzodiazepines. Fidecka S, et al. **Pol J Pharmacol** 1996 Jul–Aug;48(4):409–14

GABAergic influences on plus–maze behaviour in mice. Dalvi A, et al. **Psychopharmacology (Berl)** 1996 Dec; 128(4):380–97

Flumazenil blockade of anxiety following ethanol withdrawal in rats. Moy SS, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):354–60

Effect of the neuroactive steroid alpha–THDOC on staircase test behavior in mice. Pick CG, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):61–6

Role of GABA–A and mitochondrial diazepam binding inhibitor receptors in the anti–stress activity of neurosteroids in mice. Reddy DS, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):280–92

Stimulatory effect of diazepam on gastric acid secretion in the continuously perfused stomach in rats under urethane anesthesia. Lin WC. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):157–68

GABAergic attenuation of cocaine–induced dopamine release and locomotor activity. Dewey SL, et al. **Synapse** 1997 Apr;25(4):393–8

THERAPEUTIC USE

An investigation of the potential morphine sparing effect of midazolam [see comments] Gilliland HE, et al. **Anaesthesia** 1996 Sep;51(9):808–11. Comment in: Anaesthesia 1997 Apr;52(4):389.

Does midazolam cause retrograde amnesia, and can flumazenil reverse that amnesia? Koht A, et al. **Anesth Analg** 1997 Jul;85(1):211–2

Synergism of lorazepam and electroconvulsive therapy in the treatment of catatonia. Petrides G, et al. **Biol Psychiatry** 1997 Sep 1;42(5):375–81

Effects of high doses of diazepam on carrageenin–induced paw edema in rats. Lazzarini R, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1525–9

Evoked potentials and the effect of flumazenil in patients with liver cirrhosis. Ozyilkan E, et al. **East Afr Med J** 1997 Apr;74(4):210–2

Benzodiazepine receptor antagonist (flumazenil) does not affect sleep–related breathing disorders. Schönhofer B, et al. **Eur Respir J** 1996 Sep;9(9):1816–20

Cognitive effects of flumazenil in patients with Alzheimer's disease. Ott BR, et al. **J Clin Psychopharmacol** 1996 Oct; 16(5):400–2

Antagonism of convulsions but failure to enhance GABA(A) receptor function by felbamate in mice tolerant to diazepam. Serra M, et al. **Neurochem Res** 1997 Jun; 22(6):693–7

Benzodiazepine mediated antagonism of opioid analgesia. Gear RW, et al. **Pain** 1997 May;71(1):25–9

[Idiopathic and recurrent stupor: efficacy of flumazenil (letter)] Lemesle M, et al. **Presse Med** 1996 Nov 30; 25(37):1847 **(Fre)**

TOXICITY

Evaluation of perinatal flumazenil effects on the behavior of female RLA/Verh rats in anxiety tests and shuttle box avoidance. Ferré P, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):475–80

GABA RECEPTORS see **RECEPTORS, GABA**

GABA TRANSAMINASE see **AMINOBUTYRATE AMINOTRANSFERASE**

GABEXATE

ADVERSE EFFECTS

Panniculitis with eosinophilic infiltration due to gabexate mesilate (FOY): possibility of allergic reaction. Nakayama F. **J Dermatol** 1997 Apr;24(4):235–42

Severe cutaneous and venous damage after DIC therapy. Yuasa T, et al. **J Dermatol** 1997 Jul;24(7):466–70 (14 ref.)

[A case of broncho–constriction induced by gabexate mesilate] Nomura M, et al. **Arerugi** 1996 Oct;45(10):1133–6 **(Jpn)**

PHARMACOLOGY

Inhibitory effect of a synthetic protease inhibitor (gabexate mesilate) on the respiratory burst oxidase in human neutrophils. Ohashi I, et al. **J Biochem (Tokyo)** 1995 Nov; 118(5):1001–6

Gabexate mesilate improves pancreatic microcirculation and reduces lung edema in a rat model of acute pancreatitis. Chen HM, et al. **J Formos Med Assoc** 1997 Sep;96(9):704–9

The effect of gabexate mesilate on pancreatic and hepatic microcirculation in acute experimental pancreatitis in rats. Chen HM, et al. **J Surg Res** 1996 Dec;66(2):147–53

[Antioxidant action of Foy in an experimental model of hypergeneration of oxygen free radicals] Novelli GP, et al. **Minerva Anestesiol** 1996 Dec;62(12):403–7 (Eng. Abstr.) **(Ita)**

THERAPEUTIC USE

Protease inhibitors for prevention of ERCP pancreatitis: can we afford the price of success? Ziebert JJ, et al. **Am J Gastroenterol** 1997 Jun;92(6):1067–8

Gabexate mesilate, a synthetic protease inhibitor, prevents compression–induced spinal cord injury by inhibiting activation of leukocytes in rats [see comments] Taoka Y, et al. **Crit Care Med** 1997 May;25(5):874–9. Comment in: Crit Care Med 1997 May;25(5):725.

Gabexate mesilate prevents compression–induced spinal cord injury [editorial; comment] Young W. **Crit Care Med** 1997 May;25(5):725. Comment on: Crit Care Med 1997 May;25(5):874–9.

Prevention of ERCP–induced pancreatitis: success at last. Pasricha P. **Gastroenterology** 1997 Apr;112(4):1415–7

Gabexate for the prevention of pancreatic damage related to endoscopic retrograde cholangiopancreatography. Schneider J, et al. **Gastrointest Endosc** 1997 May; 45(5):447–8

Widening therapeutic spectrum of gabexate mesilate [letter;

comment] Ceriana P, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):832–3. Comment on: J Cardiothorac Vasc Anesth 1996 Feb;10(2):235–7.

Gabexate mesilate, a new synthetic serine protease inhibitor: a pilot clinical trial in valvular heart surgery [see comments] Parodi F, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):235–7. Comment in: J Cardiothorac Vasc Anesth 1996 Oct;10(6):832–3.

[Antioxidant action of gabexate mesilate (Foy) in an experimental model of endotoxic shock] Novelli GP, et al. **Minerva Anestesiol** 1995 Dec;61(12):509–13 (Eng. Abstr.) **(Ita)**

[Gabexate mesilate induced recovery from thrombocytopenia in a patient with acute ITP] Toyozumi H, et al. **Rinsho Ketsueki** 1996 Jul;37(7):624–9 (Eng. Abstr.) **(Jpn)**

GABOON VIPER see **VIPERIDAE**

GADOLINIUM

Enhancement characteristics of liver metastases, hepatocellular carcinomas, and hemangiomas with Gd–EOB–DTPA: preliminary results with dynamic MR imaging. Reimer P, et al. **Eur Radiol** 1997;7(2):275–80

Relaxation of solvent protons by solute Gd3+–chelates revisited. Kellar KE, et al. **Magn Reson Med** 1997 May; 37(5):730–5

Scintillating fiber optic screens: a comparison of MTF, light conversion efficiency, and emission angle with Gd2O2S:Tb screens. Yu T, et al. **Med Phys** 1997 Feb;24(2):279–85

Evaluating x-ray detectors for radiographic applications: a comparison of ZnSCdS:Ag with Gd2O2S:Tb and Y2O2S:Tb screens. Kandarakis I, et al. **Phys Med Biol** 1997 Jul;42(7):1351–73

ADMINISTRATION & DOSAGE

Sensitivity of contrast enhanced MRI in multiple sclerosis. Effects of gadolinium dose, magnetization transfer contrast and delayed imaging. Silver NC, et al. **Brain** 1997 Jul;120 (Pt 7):1149–61

Fat–saturated contrast–enhanced T1–weighted MRI in evaluation of osteosarcoma and Ewing sarcoma. Gronemeyer SA, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):585–9

Effects of contrast dose, delayed imaging, and magnetization transfer saturation on gadolinium–enhanced MR imaging of brain lesions. Mathews VP, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):14–22 (38 ref.)

Pathologic conditions in the small bowel: findings at fat–suppressed gadolinium–enhanced MR imaging with an optimized suspension of oral magnetic particles. Faber SC, et al. **Radiology** 1997 Oct;205(1):278–82

[MR venography of the deep leg veins: signal enhancement by volume infusion] König CW, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):206–9 (Eng. Abstr.) **(Ger)**

[MRI dacryocystography after applying gadolinium–containing eyedrops] Wilhelm K, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):58–61 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Potential neurotoxic effects of gadopentetate dimeglumine: clinical significance [letter; comment] Alhassan A, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):785–6; discussion 786–8. Comment on: AJNR Am J Neuroradiol 1996 Feb;17(2):365–73.

Adverse reactions to gadolinium contrast media: a review of 36 cases. Murphy KJ, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):847–9

Cutaneous nodules, pain, and thrombophlebitis as an adverse reaction to gadolinium contrast media [letter] Murphy KJ, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):318–9

Nephrotoxicity of high–dose gadolinium compared with iodinated contrast. Prince MR, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):162–6

Systemic gadolinium toxicity in patients with renal insufficiency and renal failure: retrospective analysis of an initial experience. Arsenault TM, et al. **Mayo Clin Proc** 1996 Dec;71(12):1150–4

[Anaphylactic reactions after intravenous injection of gadolinium for pituitary or cerebral magnetic resonance imaging (letter)] Bertherat J, et al. **Presse Med** 1996 Dec 21;25(40):2050 **(Fre)**

BLOOD

Measurement of the arterial concentration of Gd–DTPA using MRI: a step toward quantitative perfusion imaging. Fritz–Hansen T, et al. **Magn Reson Med** 1996 Aug; 36(2):225–31

CHEMISTRY

Physical, chemical and biological evaluations of CMD–A2–Gd–DOTA. A new paramagnetic dextran polymer. Corot C, et al. **Acta Radiol Suppl** 1997;412:91–9

Gadolinium(III) di– and tetrachelates designed for in vivo noncovalent complexation with plasma proteins: a novel molecular design for blood pool MRI contrast enhancing agents. Martin VV, et al. **Bioconjug Chem** 1995 Sep–Oct; 6(5):616–23

Stability constants and 1H relaxation effects of ternary complexes formed between Gd–DTPA, Gd–DTPA–BMA, Gd–DOTA, and Gd–EDTA and citrate, phosphate, and carbonate ions. Burai L, et al. **Magn Reson Med** 1997 Jul; 38(1):146–50

DIAGNOSTIC USE

Focal nodular hyperplasia of the liver: serial MRI with Gd–DOTA, superparamagnetic iron oxide, and Gd–EOB–DTPA. Kacl GM, et al. **Abdom Imaging** 1997 May–Jun;22(3):264–7

MS–325: a small–molecule vascular imaging agent for magnetic resonance imaging. Lauffer RB, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S356–8

Paramagnetic metalloporphyrins: from enhancers of malignant tumors to markers of myocardial infarcts. Ni Y, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S395–7

Saline versus gadolinium–enhanced magnetic resonance arthrography of porcine cartilage. Yao L, et al. **Acad Radiol** 1997 Feb;4(2):127–31

Sensitivity of delayed gadolinium–enhanced MRI in multiple sclerosis. Filippi M, et al. **Acta Neurol Scand** 1997 Jun; 95(6):331–4

MR imaging in recurrent pain after back surgery. A comparative study using standard and high doses of gadolinium contrast agents. Akeson P, et al. **Acta Radiol** 1996 Nov;37(6):858–62

Time–dependency in brain lesion enhancement with gadodiamide injection. Akeson P, et al. **Acta Radiol** 1997 Jan;38(1):19–24

Brain lesion contrast in MR imaging. Dependence on field strength and concentration of gadodiamide injection in patients and phantoms. Akeson P, et al. **Acta Radiol** 1997 Jan;38(1):14–8

Gadolinium–DTPA–enhanced MR imaging in asymptomatic knees. Boegård T, et al. **Acta Radiol** 1996 Nov;37(6):877–82

K–space filter effect in three–dimensional contrast MR angiography. Ito K, et al. **Acta Radiol** 1997 Jan;38(1):173–5

Gadolinium–enhanced 3D time–of–flight MR angiography. Experimental and clinical evaluation. Yano T, et al. **Acta Radiol** 1997 Jan;38(1):47–54

Hepatocyte–directed MR contrast agents. Can we take advantage of bile acids? Anelli PL, et al. **Acta Radiol Suppl** 1997;412:125–33

Interstitial MR lymphography using Gd–carrying liposomes. Misselwitz B, et al. **Acta Radiol Suppl** 1997;412:51–5

Alteration of electronic relaxation in MR contrast agents through de–novo ligand design. Shukla RB, et al. **Acta Radiol Suppl** 1997;412:121–3

Multinuclear MR characterization of a new hepatobiliary contrast agent. Preliminary results. Vander Elst L, et al. **Acta Radiol Suppl** 1997;412:135–8

Single–dose gadolinium with magnetization transfer versus triple–dose gadolinium in the MR detection of multiple sclerosis lesions. van Waesberghe JH, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1279–85

Normal gadolinium–enhanced MR images of the developing appendicular skeleton: Part I. Cartilaginous epiphysis and physis. Barnewolt CE, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):183–9

Effect of gadolinium on phase–contrast MR angiography of the renal arteries. Bass JC, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):261–6

Normal gadolinium–enhanced MR images of the developing appendicular skeleton: Part 2. Epiphyseal and metaphyseal marrow. Dwek JR, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):191–6

Gadolinium–enhanced MR imaging of the spleen: artifacts and potential pitfalls. Ito K, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1147–51

Gadolinium–enhanced body MR venography with subtraction technique. Lebowitz JA, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):755–8

Image subtraction in gadolinium–enhanced MR imaging. Lee VS, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1427–32

Evaluation of renal artery stenosis with dynamic gadolinium–enhanced MR angiography. Rieumont MJ, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):39–44

Breath–hold ultrafast three–dimensional gadolinium–enhanced MR angiography of the renovascular system. Siegelman ES, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):1035–40

Nontumorous hepatic pseudolesion around the falciform ligament: prevalence on gadolinium chelate–enhanced MR examination. Spelle L, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):795–9

Dynamic Gd–DTPA–enhanced MR imaging of the kidney: comparison between T1– and T2–weighted sequences. Tsushima Y, et al. **Am J Nephrol** 1996;16(6):506–12

Endolymphatic duct/sac enhancement on gadolinium magnetic resonance imaging of the inner ear: preliminary observations and case reports. Fitzgerald DC, et al. **Am J Otol** 1996 Jul;17(4):603–6

Importance of magnetic resonance imaging and gadolinium enhancement [letter; comment] Paty DW, et al. **Ann Neurol** 1996 Dec;40(6):951–3. Comment on: Ann Neurol 1996 Mar;39(3):285–94.

Magnetic resonance imaging of myelofibrosis. STIR and gadolinium–enhanced MR images. Amano Y, et al. **Clin Imaging** 1997 Jul–Aug;21(4):264–8

Gd–DTPA–enhanced MR imaging of injured spinal cord. Terae S, et al. **Clin Imaging** 1997 Mar–Apr;21(2):82–9

Late radiation change in the CNS: MR imaging following gadolinium enhancement. Norris AM, et al. **Clin Radiol** 1997 May;52(5):356–62

Liver MRI with contrast enhancement. Runge VM. **Crit Rev Diagn Imaging** 1997 Jun;38(3):207–30 (29 ref.)

Meglumine gadoterate: a new safe radiocontrast medium for endoscopic retrograde cholangiopancreatography? Dorta G, et al. **Digestion** 1997;58(3):289–92

Incidentally discovered adrenal masses: evaluation with gadolinium enhancement and fat–suppressed MR imaging at 0.5 T. Boraschi P, et al. **Eur J Radiol** 1997 May; 24(3):245–52

Computed model of gadolinium enhanced MRI of breast disease. Kenney PJ, et al. **Eur J Radiol** 1997 Feb; 24(2):109–19

MRI in children given gadodiamide injection: safety and efficacy in CNS and body indications. Lundby B, et al. **Eur J Radiol** 1996 Nov;23(3):190–6

Transudative vs exudative pleural effusions: differentiation using Gd–DTPA–enhanced MRI. Frola C, et al. **Eur Radiol** 1997;7(6):860–4

1H T1 and T2 measurements of the MR imaging contrast agents Gd–DTPA and Gd–DTPA BMA at 1.5T. Reichenbach JR, et al. **Eur Radiol** 1997;7(2):264–74

Enhancement characteristics of liver metastases, hepatocellular carcinomas, and hemangiomas with Gd–EOB–DTPA: preliminary results with dynamic MR imaging. Reimer P, et al. **Eur Radiol** 1997;7(2):275–80

Contrast media in MR arthrography of the glenohumeral joint: intra–articular gadopentetate vs saline: preliminary results. Zanetti M, et al. **Eur Radiol** 1997;7(4):498–502

Differentiation of delayed kidney graft function with gadolinium–DTPA–enhanced magnetic resonance imaging and Doppler ultrasound. Preidler KW, et al. **Invest Radiol** 1996 Jun;31(6):364–71

Choice of metal ion and formulation concentration for first–pass brain perfusion studies with magnetic resonance imaging at 1.5 tesla. Runge VM, et al. **Invest Radiol** 1996 Jul;31(7):395–400

Early dynamic magnetic resonance imaging of liver metastases with 0.3 and 0.6 mmol/kg gadoteridol injection. Runge VM, et al. **Invest Radiol** 1996 Aug;31(8):472–8

Renal metastasis. Detection and characterization on enhanced magnetic resonance imaging using an animal model. Runge VM, et al. **Invest Radiol** 1997 Apr;32(4):212–7

Evaluation of gadolinium 2,5–BPA–DO3A, a new macrocyclic hepatobiliary chelate, in normal liver and metastatic disease on high field magnetic resonance imaging [published erratum appears in Invest Radiol 1996 Feb;31(2):83] Runge VM, et al. **Invest Radiol** 1996 Jan; 31(1):11–6

Magnetic resonance imaging of focal liver lesions. Comparison of the superparamagnetic iron oxide resovist versus gadolinium–DTPA in the same patient. Vogl TJ, et al. **Invest Radiol** 1996 Nov;31(11):696–708

Experimental acute cerebral ischemia with reperfusion. Evaluation with gadolinium–texaphyrin. Young SW, et al. **Invest Radiol** 1996 Jun;31(6):353–8

The value of gadolinium–chelates enhancement in neuroradiology. Cosnard G, et al. **J Belge Radiol** 1997 Feb; 80(1):30–2

Venous aneurysms: MR diagnosis with the "layered gadolinium" sign. Krinsky G, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):623–7 (12 ref.)

Dynamic breath–hold 3D gadolinium–enhanced MRI of intraarterial masses: findings in two patients. Krinsky G, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):631–4 (9 ref.)

Focal nodular hyperplasia of the liver: assessment of hemodynamic and angioarchitectural patterns with gadolinium chelate–enhanced 3D spoiled gradient–recalled MRI and maximum intensity projection reformatted images. Soyer P, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):898–904

MRI of the TMJ disc with intravenous administration of gadopentetate dimeglumine. Takebayashi S, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):209–15

Conspicuity of normal and pathologic female pelvic anatomy: comparison of gadolinium–enhanced T1–weighted images and fast spin echo T2–weighted images. Troiano RN, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):871–7

Evaluation of the effects of intravascular MR contrast media (gadolinium dendrimer) on 3D time of flight magnetic resonance angiography of the body. Bourne MW, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):3O5–1O

Use of gadolinium chelates in MR imaging of the spine. Bradley WG. **J Magn Reson Imaging** 1997 Jan–Feb; 7(1):38–46 (24 ref.)

Pharmacokinetic analysis of Gd–DTPA enhancement in dynamic three–dimensional MRI of breast lesions. den Boer JA, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):702–15

Analysis of magnetization transfer effects on T1–weighted spin–echo scans using a simple tissue phantom simulating gadolinium–enhanced brain lesions. Finelli DA, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):731–8

Assessment of tumor microcirculation: a new role of dynamic contrast MR imaging. Griebel J, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):111–9 (73 ref.)

Application of a quantitative model to differentiate benign from malignant breast lesions detected by dynamic, gadolinium–enhanced MRI. Kelcz F, et al. **J Magn Reson Imaging** 1996 Sep–Oct;6(5):743–52

Multilocular cystic nephroma: MR imaging appearance with current techniques, including gadolinium enhancement. Kettritz U, et al. **J Magn Reson Imaging** 1996 Jan–Feb; 6(1):145–8

Experimental hepatic dysfunction: evaluation by MRI with Gd–EOB–DTPA. Kim T, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):683–8

Differentiating between T1 and T2* changes caused by gadopentetate dimeglumine in the kidney by using a double–echo dynamic MR imaging sequence. Kuperman VY, et al. **J Magn Reson Imaging** 1996 Sep–Oct;6(5):764–8

Dynamic contrast–enhanced breath–hold MR imaging of thoracic malignancy using cardiac compensation. Low RN, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):625–31

Contrast agents for MR imaging of the liver. Low RN. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):56–67 (76 ref.)

The effects of time varying intravascular signal intensity and k–space acquisition order on three–dimensional MR angiography image quality. Maki JH, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):642–51

Gadolinium–enhanced MR angiography of visceral arteries in patients with suspected chronic mesenteric ischemia. Meaney JF, et al. **J Magn Reson Imaging** 1997 Jan–Feb; 7(1):171–6

MR imaging of the liver: effect of portal hypertension on hepatic parenchymal enhancement using a gadolinium chelate. Soyer P, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):142–6

Contrast–enhanced MRI with gadodiamide injection in rat disease models. Yamada K, et al. **J Vet Med Sci** 1996 Apr; 58(4):291–5

Contrast–enhanced MRI with gadodiamide injection in rabbit carcinoma models. Yamada K, et al. **J Vet Med Sci** 1996 May;58(5):389–96

Measurement of liver blood volume using a macromolecular MRI contrast agent at equilibrium. Blustajn J, et al. **Magn Reson Imaging** 1997;15(4):415–21

Choice of contrast enhancement index for dynamic magnetic resonance mammography. Brookes JA, et al. **Magn Reson Imaging** 1996;14(9):1023–31

3D gadolinium–enhanced MR angiography of the carotid arteries. Cloft HJ, et al. **Magn Reson Imaging** 1996; 14(6):593–600

Macroscopic tumor volume of malignant glioma determined by contrast–enhanced magnetic resonance imaging with and without magnetization transfer contrast. Hawighorst H, et al. **Magn Reson Imaging** 1996;14(10):1119–26

Gadolinium–enhanced magnetic resonance angiography of renal transplants. Johnson DB, et al. **Magn Reson Imaging** 1997;15(1):13–20

Focal hepatic lymphoma: magnetic resonance demonstration using current techniques including gadolinium enhancement. Kelekis NL, et al. **Magn Reson Imaging** 1997; 15(6):625–36

Comparison of gadolinium chelates with manganese–DPDP for liver lesion detection and characterization: preliminary results. Kettritz U, et al. **Magn Reson Imaging** 1996; 14(10):1185–90

Gd–DTPA2– as a measure of cartilage degradation [published erratum appears in Magn Reson Med 1996 Dec;36(6):964] Bashir A, et al. **Magn Reson Med** 1996 Nov; 36(5):665–73

The determination of myocardial viability using Gd–DTPA in a canine model of acute myocardial ischemia and reperfusion. Pereira RS, et al. **Magn Reson Med** 1996 Nov; 36(5):684–93

Improvement of brain lesion detection at 0.1 T by simultaneous use of Gd–DTPA and magnetization transfer imaging. Ramadan UA, et al. **Magn Reson Med** 1997 Feb; 37(2):268–74

1H chemical shift imaging reveals loss of brain tumor choline signal after administration of Gd–contrast. Sijens PE, et al. **Magn Reson Med** 1997 Feb;37(2):222–5

Syndrome of orthostatic headaches and diffuse pachymeningeal gadolinium enhancement. Mokri B, et al. **Mayo Clin Proc** 1997 May;72(5):400–13

Preoperative gadolinium–enhanced magnetic resonance pulmonary venography in an adolescent with atrial septal defect. Eisenhauer MD, et al. **Mil Med** 1997 Sep; 162(9):640–2

Gadolinium enhancement: improved MRI detection of retinoblastoma extension into the optic nerve. Ainbinder DJ, et al. **Neuroradiology** 1996 Nov;38(8):778–81

Central gadolinium enhancement of an acute spontaneous spinal epidural haematoma. Chen CJ, et al. **Neuroradiology** 1996 May;38 Suppl 1:S114–6

MRI of intracranial chordomas. Extent of tumour and contrast enhancement: criteria for differential diagnosis. Doucet V, et al. **Neuroradiology** 1997 Aug;39(8):571–6

Clinical evaluation of gadodiamide injection in paediatric MR imaging. Hanquinet S, et al. **Pediatr Radiol** 1996 Nov; 26(11):806–10

Dynamic gadolinium–enhanced subtraction MR imaging—a simple technique for the early diagnosis of Legg–Calvé–Perthes disease: preliminary results. Sebag G, et al. **Pediatr Radiol** 1997 Mar;27(3):216–20

Functional evaluation of transplanted kidneys by Gd–DTPA enhanced turbo FLASH MR imaging. Nakashima R, et al. **Radiat Med** 1996 Sep–Oct;14(5):251–6

Assessment of breast cancer with dynamic gadolinium–enhanced MR imaging combined with magnetization transfer contrast using a newly developed breast surface coil for the supine position. Shimada M, et al. **Radiat Med** 1997 Mar–Apr;15(2):85–90

Adenoma malignum: MR imaging and pathologic study. Doi T, et al. **Radiology** 1997 Jul;204(1):39–42

Hepatic arterial–phase dynamic gadolinium–enhanced MR imaging: optimization with a test examination and a power injector. Earls JP, et al. **Radiology** 1997 Jan;202(1):268–73

Automated detection of bolus arrival and initiation of data acquisition in fast, three–dimensional, gadolinium–enhanced MR angiography. Foo TK, et al. **Radiology** 1997 Apr;203(1):275–80

Liver metastases: improved detection with dynamic gadolinium–enhanced MR imaging? Hamm B, et al. **Radiology** 1997 Mar;202(3):677–82

Gadolinium–enhanced MR imaging of thyroid and parathyroid masses. Nakahara H, et al. **Radiology** 1997 Mar; 202(3):765–72

Peripheral vascular disease evaluated with reduced–dose gadolinium–enhanced MR angiography. Rofsky NM, et al. **Radiology** 1997 Oct;205(1):163–9

A prototype liver–specific contrast medium for CT: preclinical evaluation of gadoxetic acid disodium, or Gd–EOB–DTPA. Schmitz SA, et al. **Radiology** 1997 Feb; 202(2):407–12

Safety and medico–legal implications of intra–articular gadolinium use. Balkissoon AR. **Semin Ultrasound CT MR** 1997 Aug;18(4):276–7

The use of gadolinium in the MR evaluation of soft tissue tumors. Kransdorf MJ, et al. **Semin Ultrasound CT MR** 1997 Aug;18(4):251–68 (25 ref.)

Gadolinium–enhanced three–dimensional MR angiography of the thoracoabdominal aorta. Krinsky G, et al. **Semin Ultrasound CT MR** 1996 Aug;17(4):280–303 (19 ref.)

The use of gadolinium in the MR imaging of bone tumors. Sundaram M. **Semin Ultrasound CT MR** 1997 Aug; 18(4):307–11

MR imaging of musculoskeletal tumors and tumor mimickers with intravenous gadolinium: experience with 242 patients. May DA, et al. **Skeletal Radiol** 1997 Jan;26(1):2–15

Gadolinium–enhanced MR imaging of the wrist in rheumatoid arthritis: value of fat suppression pulse sequences. Nakahara N, et al. **Skeletal Radiol** 1996 Oct; 25(7):639–47

The use of gadolinium in the MR evaluation of musculoskeletal tumors. Kransdorf MJ. **Top Magn Reson Imaging** 1996 Feb;8(1):15–23 (25 ref.)

[Conventional magnetic resonance angiography and contrast enhanced magnetic resonance angiography of extracranial blood vessel segments] Boos M, et al. **Radiologe** 1997 Jul; 37(7):515–28 (Eng. Abstr.) **(Ger)**

[Gadolinium–enhanced magnetic resonance angiography of abdominal blood vessels] Stehling MK, et al. **Radiologe** 1997 Jul;37(7):539–46 (Eng. Abstr.) **(Ger)**

[MRT of experimental liver abscesses: a comparison of a new blood pool contrast medium with gadolinium–DTPA in animal experiments] Dick A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):392–7 (Eng. Abstr.) **(Ger)**

[Diagnosis and follow–up of muscle injuries by means of plain and contrast–enhanced MRT: experimental and clinical studies] Mellerowicz H, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):437–45 (Eng. Abstr.) **(Ger)**

[Usefulness of the modified Dixon technique associated with gadolinium administration in the characterization of adrenal masses] Boraschi P, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):218–24 (Eng. Abstr.) **(Ita)**

[Experience in clinical use of paramagnetic agent magnevist in the diagnosis of spine and spinal cord metastases] Gunicheva NV, et al. **Vestn Rentgenol Radiol** 1996 Nov–Dec;(6):15–8 (Eng. Abstr.) **(Rus)**

HISTORY

Sir Johan Gadolin of Turku: the grandfather of gadolinium. Dean PB, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S165–9

PHARMACOKINETICS

Quantification of tissue gadolinium concentration using magnetic resonance imaging: comparison of ultrashort inversion time inversion recovery echoplanar and dynamic three–dimensional spoiled gradient–recalled approaches with in vitro measurements. Roberts TP, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S282–5

Comparison of hepatobiliary gadolinium chelates for magnetic resonance imaging. Runge VM, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S455–7

Mechanism of hepatic uptake of gadoxetate disodium. Weinmann HJ, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S232–4

The biological effects of Auger electrons compared to alpha–particles and Li ions. Laster BH, et al. **Acta Oncol** 1996;35(7):917–23

Comparative transmetallation kinetics and thermodynamic stability of gadolinium–DTPA bis–glucosamide and other magnetic resonance imaging contrast media. Puttagunta NR, et al. **Invest Radiol** 1996 Oct;31(10):619–24

Pharmacokinetics of the liver–specific contrast agent Gd–EOB–DTPA in relation to contrast–enhanced liver imaging in humans. Schuhmann–Giampieri G, et al. **J Clin Pharmacol** 1997 Jul;37(7):587–96

Systemic gadolinium toxicity in patients with renal insufficiency and renal failure: retrospective analysis of an initial experience. Arsenault TM, et al. **Mayo Clin Proc** 1996 Dec;71(12):1150–4

Evaluation of the in vitro stability of gadolinium (III) polyoxometalates. Crooks WJ 3rd, et al. **Nucl Med Biol** 1997 Feb;24(2):123–5

PHARMACOLOGY

Interaction of MRI gadolinium contrast agents with phospholipid bilayers as studied by 95 GHz EPR. Smirnova TI, et al. **Acta Chem Scand** 1997 May;51(5):562–6

Intracerebroventricular La3+ but not Gd3+ inhibits cocaine–induced motor activation in rats. Kuzmin AV, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):183–5

Gadolinium blocks the delayed rectifier potassium current in isolated guinea–pig ventricular myocytes. Hongo K, et al. **Exp Physiol** 1997 Jul;82(4):647–56

Orthophosphate salts induce calcium current recovery from blockade by gadolinium in isolated guinea–pig ventricular myocytes. Le Guennec JY, et al. **Exp Physiol** 1996 Jul; 81(4):577–85

Swelling–activated Gd3+–sensitive cation current and cell volume regulation in rabbit ventricular myocytes. Clemo HF, et al. **J Gen Physiol** 1997 Sep;110(3):297–312

In vivo assessment of hepatic alterations following gadolinium chloride–induced Kupffer cell blockade. Rüttinger D, et al. **J Hepatol** 1996 Dec;25(6):960–7

Gadolinium chloride inhibits Kupffer cell nitric oxide synthase (iNOS) induction. Roland CR, et al. **J Leukoc Biol** 1996 Oct;60(4):487–92

Low molecular weight lanthanide contrast agents: in vitro studies of mechanisms of action. Fossheim S, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):251–7

Effects of barium, lanthanum and gadolinium on endogenous chloride and potassium currents in Xenopus oocytes. Tokimasa T, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):677–86

Free gadolinium and gadodiamide, a gadolinium chelate used in magnetic resonance imaging: evaluation of their in vitro effects on human neutrophil viability. Behra–Miellet J, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep; 18(7):437–42

Neomycin and gadolinium applied to an L5 spinal nerve lesion prevent mechanical allodynia–like behaviour in rats. Blenk KH, et al. **Pain** 1997 Apr;70(2–3):155–65

Stretch–induced stimulation of lower airway nitric oxide formation in the guinea–pig: inhibition by gadolinium chloride. Bannenberg GL, et al. **Pharmacol Toxicol** 1997 Jul;81(1):13–8

Gadolinium chloride pretreatment protects against hepatic injury but predisposes the lungs to alveolitis after lipopolysaccharide administration. Brown AP, et al. **Shock** 1997 Mar;7(3):186–92

Gadolinium chloride treatment attenuates hepatic platelet accumulation after lipopolysaccharide administration. Pearson JM, et al. **Shock** 1996 Jun;5(6):408–15

Gadolinium chloride alters the acinar distribution of phagocytosis and balance between pro– and anti–inflammatory cytokines. Rai RM, et al. **Shock** 1996 Oct;6(4):243–7

Modulation of kupffer cell activity by gadolinium chloride in endotoxemic rats. Vollmar B, et al. **Shock** 1996 Dec; 6(6):434–41

Utilization of electron probe microanalysis in gadolinium–treated mice. Wasserman AJ, et al. **Toxicol Pathol** 1996 Sep–Oct;24(5):588–94

Gadolinium chloride reduces cytochrome P450: relevance to chemical–induced hepatotoxicity. Badger DA, et al. **Toxicology** 1997 Aug 15;121(2):143–53

Suppression of Kupffer cell function prevents cadmium induced hepatocellular necrosis in the male Sprague–Dawley rat. Sauer JM, et al. **Toxicology** 1997 Aug 15;121(2):155–64

Activation of apoptosis during early phase of reperfusion after liver transplantation. Sasaki H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):406–7

Gadolinium chloride–induced macrophage blockade prevents rejection of human insulinoma cell xenograft in rats. Lázár G Jr, et al. **Transplantation** 1997 Mar 15;63(5):729–32

THERAPEUTIC USE

Gadolinium chloride blocks alcohol–dependent liver toxicity in rats treated chronically with intragastric alcohol despite the induction of CYP2E1. Koop DR, et al. **Mol Pharmacol** 1997 Jun;51(6):944–50

TOXICITY

Acute cardiotoxicity of gadolinium–based contrast media: findings in the isolated rat heart. Akre BT, et al. **Acad Radiol** 1997 Apr;4(4):283–91

Comparison of cardiovascular changes after administration of gadodiamide injection and gadopentetate dimeglumine in dogs. Bøkenes J, et al. **Acad Radiol** 1997 Mar;4(3):204–9

Toxicity of gadolinium chelates in rodents. Nunn AD, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S333–5

Gadolinium blocks mechano–electric transducer current in chick cochlear hair cells. Kimitsuki T, et al. **Hear Res** 1996 Nov 1;101(1–2):75–80

An experimental study on the neurotolerability of gadobenate dimeglumine in a rat model of focal brain ischemia. La Noce A, et al. **Invest Radiol** 1996 Sep;31(9):550–5

GADOLINIUM

Neurotoxicity of gadolinium contrast agents for magnetic resonance imaging in rats with osmotically disrupted blood–brain barrier. Takahashi M, et al. **Magn Reson Imaging** 1996;14(6):619–23

Radiotoxicity of gadolinium–148 and radium–223 in mouse testes: relative biological effectiveness of alpha–particle emitters in vivo. Howell RW, et al. **Radiat Res** 1997 Mar; 147(3):342–8

Gadolinium chloride toxicity in the rat. Spencer AJ, et al. **Toxicol Pathol** 1997 May–Jun;25(3):245–55

GAFFKYA ANAEROBIA see **PEPTOSTREPTOCOCCUS**

GAFFKYA HOMARI see **STREPTOCOCCACEAE**

GAG GENE PRODUCTS see **GENE PRODUCTS, GAG**

GAG GENES see **GENES, GAG**

GAG–ONC FUSION PROTEINS see **FUSION PROTEINS, GAG–ONC**

GAG–POL FUSION PROTEINS see **FUSION PROTEINS, GAG–POL**

GAG–POL PROTEIN see **FUSION PROTEINS, GAG–POL**

GAG POLYPROTEINS see **GENE PRODUCTS, GAG**

GAG PROTEIN see **GENE PRODUCTS, GAG**

GAG PROTEIN P24, HIV see **HIV CORE PROTEIN P24**

GAG VIRAL PROTEINS see **GENE PRODUCTS, GAG**

GAGGING

The control of hyperventilation in the management of gagging [letter] Wilks C. **Br Dent J** 1997 Sep 13;183(5):157

Severe coughing and gagging episode in an adolescent with a chronic laryngotracheal foreign body: a case report. Pitlanish ML, et al. **Clin Pediatr (Phila)** 1997 Jun; 36(6):357–9

Videofluoroscopic evaluation of aspiration with visual examination of the gag reflex and velar movement. Leder SB. **Dysphagia** 1997 Winter;12(1):21–3

Vomiting and retching in Gilles de la Tourette syndrome: a report of ten cases and a review of the literature. Rickards H, et al. **Mov Disord** 1997 Jul;12(4):531–5 (35 ref.)

PHYSIOLOGY

The control of hyperventilation in the management of 'gagging'. Barsby MJ. **Br Dent J** 1997 Feb 8;182(3):109–11

The gag reflex and aspiration: a retrospective analysis of 120 patients assessed by videofluoroscopy. Bleach NR. **Clin Otolaryngol** 1993 Aug;18(4):303–7

Gag reflex and dysphagia. Buchholz DW, et al. **Dysphagia** 1997 Spring;12(2):101–2

Neuronal gagging activity patterns may be generated by neurons in the reticular area dorsomedial to the retrofacial nucleus in dogs. Fukuda H, et al. **Exp Brain Res** 1997 Mar; 113(3):394–401

GAIT

Modern gait analysis: a tool to improve shoes, insoles and the understanding of foot function. Morlock MM, et al. **Acta Orthop Belg** 1996;62 Suppl 1:11–6

Sensori–motor function, gait patterns and falls in community–dwelling women. Lord SR, et al. **Age Ageing** 1996 Jul;25(4):292–9

Gait disturbance in Alzheimer's disease: a clinical study. O'Keeffe ST, et al. **Age Ageing** 1996 Jul;25(4):313–6

Orthotic management of gait in spastic diplegia. Carlson WE, et al. **Am J Phys Med Rehabil** 1997 May–Jun;76(3):219–25

Kinematic gait analysis in dogs with hip dysplasia. Bennett RL, et al. **Am J Vet Res** 1996 Jul;57(7):966–71

Kinematic evaluation of gait in dogs with cranial cruciate ligament rupture. DeCamp CE, et al. **Am J Vet Res** 1996 Jan;57(1):120–6

Effects of anesthesia of the palmar digital nerves on kinematic gait analysis in horses with and without navicular disease. Keegan KG, et al. **Am J Vet Res** 1997 Mar;58(3):218–23

Effects of subject velocity on ground reaction force measurements and stance times in clinically normal horses at the walk and trot. McLaughlin RM Jr, et al. **Am J Vet Res** 1996 Jan;57(1):7–11

Gait ataxia during omeprazole therapy [letter] Varona L, et al. **Ann Pharmacother** 1996 Feb;30(2):192

Parkinson's disease: an investigation of exercise capacity, respiratory function, and gait. Canning CG, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):199–207

Systematic and random error in repeated measurements of temporal and distance parameters of gait after stroke. Evans MD, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):725–9

Reciprocating gait orthoses: a multicenter study of their use by spinal cord injured patients. Franceschini M, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):582–6

Deficit and change in gait velocity during rehabilitation after stroke. Goldie PA, et al. **Arch Phys Med Rehabil** 1996 Oct; 77(10):1074–82

Functional outcomes attained by T9–12 paraplegic patients with the walkabout and the isocentric reciprocal gait orthoses. Harvey LA, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):706–11

Asymmetry of gait initiation in hemiparetic stroke subjects. Hesse S, et al. **Arch Phys Med Rehabil** 1997 Jul; 78(7):719–24

Therapeutic footwear: enhanced function in people with diabetes and transmetatarsal amputation. Mueller MJ, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):952–6

Measuring unilateral spatial neglect during stepping. Suzuki E, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):173–8

An aviator with an unusual gait: a rare disease teaches some everyday lessons. Brooks KE, et al. **Aviat Space Environ Med** 1997 Feb;68(2):147–50

Medial gastrocnemius is more activated than lateral gastrocnemius in sural nerve induced reflexes during human gait. Duysens J, et al. **Brain Res** 1996 Jul 15;727(1–2):230–2

Biceps femoris tendon jerk reflexes are enhanced at the end of the swing phase in humans. Van de Crommert HW, et al. **Brain Res** 1996 Sep 23;734(1–2):341–4

Differential diagnosis of gait disorders in older adults. Alexander NB. **Clin Geriatr Med** 1996 Nov;12(4):689–703 (74 ref.)

Using technology–based techniques to assess postural control and gait in older adults. Alexander NB. **Clin Geriatr Med** 1996 Nov;12(4):725–44 (135 ref.)

Functional assessment of balance and gait. Berg K, et al. **Clin Geriatr Med** 1996 Nov;12(4):705–23 (68 ref.)

Disorders of posture, balance, and gait in Parkinson's disease. Rogers MW. **Clin Geriatr Med** 1996 Nov;12(4):825–45 (85 ref.)

Effects of leg length discrepancies on the forces at the hip joint. Brand RA, et al. **Clin Orthop** 1996 Dec;(333):172–80

Stride analysis after proximal tibial replacement. Zohman GL, et al. **Clin Orthop** 1997 Jun;(339):180–4

Evaluation and management of in–toe gait in the neurologically intact child. Volpe RG. **Clin Podiatr Med Surg** 1997 Jan;14(1):57–85 (101 ref.)

Internal rotation gait: a compensatory mechanism to restore abduction capacity decreased by bone deformity. Arnold AS, et al. **Dev Med Child Neurol** 1997 Jan;39(1):40–4

They are improved, but are they better? [editorial] Brown K. **Dev Med Child Neurol** 1997 Apr;39(4):213

Energy consumption in children with myelomeningocele: a comparison between reciprocating gait orthosis and hip–knee–ankle–foot orthosis ambulators. Cuddeford TJ, et al. **Dev Med Child Neurol** 1997 Apr;39(4):239–42

Correlation between the gross motor function measure scores and gait spatiotemporal measures in children with neurological impairments. Drouin LM, et al. **Dev Med Child Neurol** 1996 Nov;38(11):1007–19

A preliminary evaluation of ankle orthoses in the management of children with cerebral palsy. Hainsworth F, et al. **Dev Med Child Neurol** 1997 Apr;39(4):243–7

Therapeutic footwear can reduce plantar pressures in patients with diabetes and transmetatarsal amputation. Mueller MJ, et al. **Diabetes Care** 1997 Apr;20(4):637–41

The relationship of knee muscle performance and gait in stroke patients [letter; comment] Bohannon R. **Disabil Rehabil** 1996 Dec;18(12):638. Comment on: Disabil Rehabil 1996 Feb;18(2):83–90.

Quantitative analysis of gait in the visually impaired. Nakamura T. **Disabil Rehabil** 1997 May;19(5):194–7

Cocontraction and phasic activity during GAIT in children with cerebral palsy. Unnithan VB, et al. **Electromyogr Clin Neurophysiol** 1996 Dec;36(8):487–94

Gait, estimated net cost of transport and heat production at different speeds in three–day–event horses. Schroter RC, et al. **Equine Vet J Suppl** 1996 Jul;(22):16–23

Upright standing and gait: are there changes in attentional requirements related to normal aging? Lajoie Y, et al. **Exp Aging Res** 1996 Apr–Jun;22(2):185–98

Rear foot inversion/eversion during gait relative to the subtalar joint neutral position [letter; comment] Sobel E, et al. **Foot Ankle Int** 1996 Dec;17(12):786. Comment on: Foot Ankle Int 1996 Jul;17(7):406–12.

Estimation of stature from stride length while walking fast. Jasuja OP, et al. **Forensic Sci Int** 1997 May 5;86(3):181–6

Muscle selection and walking performance of multichannel FES systems for ambulation in paraplegia. Kobetic R, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):23–9

Gait function in spastic hemiparetic patients walking barefoot, with firm shoes, and with ankle–foot orthosis. Hesse S, et al. **Int J Rehabil Res** 1996 Jun;19(2):133–41

Gait changes in older adults: predictors of falls or indicators of fear? Maki BE. **J Am Geriatr Soc** 1997 Mar;45(3):313–20

Effect of persistent toe walking on ankle equinus. Analysis of 60 idiopathic toe walkers. Sobel E, et al. **J Am Podiatr Med Assoc** 1997 Jan;87(1):17–22 (33 ref.)

Cauda equina syndrome resulting in late sequela of calcaneal gait and neuropathic heel ulcer. Ward K, et al. **J Am Podiatr Med Assoc** 1997 Feb;87(2):60–5

Quantitative gait analysis after bilateral total knee arthroplasty with two different systems within each subject. Kramers–de Quervain IA, et al. **J Arthroplasty** 1997 Feb; 12(2):168–79

Stepping over an obstacle increases the motions and moments of the joints of the trailing limb in young adults. Chou LS, et al. **J Biomech** 1997 Apr;30(4):331–7

Determination of the step duration of gait initiation using a mechanical energy analysis. Miller CA, et al. **J Biomech** 1996 Sep;29(9):1195–9

Comments on "Energy cost, mechanical work and muscular efficiency in swing–through gait with elbow crutches" [letter; comment] Zatsiorsky VM. **J Biomech** 1997 Aug; 30(8):861, 863. Comment on: J Biomech 1996 Nov;29(11):1473–82.

Kinematics and dynamic stability of the locomotion of post–polio patients. Hurmuzlu Y, et al. **J Biomech Eng** 1996 Aug;118(3):405–11

Gait pattern in the early recovery period after stroke. De Quervain IA, et al. **J Bone Joint Surg Am** 1996 Oct; 78(10):1506–14

Gait abnormalities following resection of talocalcaneal coalition. Kitaoka HB, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):369–74

Analysis of the gait of adults who had residua of congenital dysplasia of the hip. Romanò CL, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1468–79

Can Trendelenburg's sign be positive if the hip is normal? Vasudevan PN, et al. **J Bone Joint Surg Br** 1997 May; 79(3):462–6

Postnatal development of body architecture and gait in several rodent species. Eilam D. **J Exp Biol** 1997 May;200 (Pt 9):1339–50

Effect of reduced gravity on the preferred walk–run transition speed. Kram R, et al. **J Exp Biol** 1997 Feb;200 (Pt 4):821–6

Gait analysis of adult patients with complete congenital dislocation of the hip. Lai KA, et al. **J Formos Med Assoc** 1997 Sep;96(9):740–4

The effect of strength and endurance training on gait, balance, fall risk, and health services use in community–living older adults. Buchner DM, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul;52(4):M218–24

Factors associated with changes in gait speed in older adults. Buchner DM, et al. **J Gerontol A Biol Sci Med Sci** 1996 Nov;51(6):M297–302

Step length reductions in advanced age: the role of ankle and hip kinetics. Judge JO, et al. **J Gerontol A Biol Sci Med Sci** 1996 Nov;51(6):M303–12

Cerebellar gait ataxia following neuroleptic malignant syndrome. Manto M, et al. **J Neurol** 1996 Jan;243(1):101–2

Impaired stretch reflex and joint torque modulation during spastic gait in multiple sclerosis patients. Sinkjaer T, et al. **J Neurol** 1996 Aug;243(8):566–74

Is ataxic gait the predominant presenting manifestation of Creutzfeldt–Jakob disease? Experience of 14 Chinese cases from Taiwan. Liou HH, et al. **J Neurol Sci** 1996 Sep 1; 140(1–2):53–60

Forms of forward quadrupedal locomotion. I. A comparison of posture, hindlimb kinematics, and motor patterns for normal and crouched walking. Trank TV, et al. **J Neurophysiol** 1996 Oct;76(4):2316–26

On one's toes about developmental language disorders [editorial; comment] Accardo P. **J Pediatr** 1997 Apr; 130(4):509–10. Comment on: J Pediatr 1997 Apr;130(4):541–6.

Developmental implications of idiopathic toe walking [see comments] Shulman LH, et al. **J Pediatr** 1997 Apr; 130(4):541–6. Comment in: J Pediatr 1997 Apr;130(4):509–10.

Strategies for increasing walking speed in diplegic cerebral palsy. Abel MF, et al. **J Pediatr Orthop** 1996 Nov–Dec; 16(6):753–8

A dynamic biomechanical analysis of the etiology of adolescent tibia vara. Davids JR, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):461–8

Three–dimensional gait analysis in spina bifida. Duffy CM, et al. **J Pediatr Orthop** 1996 Nov–Dec;16(6):786–91

Sprinting and intoeing. Fuchs R, et al. **J Pediatr Orthop** 1996 Jul–Aug;16(4):489–91

The evolution of gait in childhood and adolescent cerebral palsy. Johnson DC, et al. **J Pediatr Orthop** 1997 May–Jun; 17(3):392–6

Comparative study of conventional hip–knee–ankle–foot orthoses versus reciprocating–gait orthoses for children with high–level paraparesis. Katz DE, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):377–86

A simplified technique for determining foot progression angle in children 4 to 16 years of age. Lösel S, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):570–4

An evaluation of the posterior leaf spring orthosis using joint kinematics and kinetics. Ounpuu S, et al. **J Pediatr Orthop** 1996 May–Jun;16(3):378–84

Adductor transfers in cerebral palsy: long–term results studied by gait analysis. Scott AC, et al. **J Pediatr Orthop** 1996 Nov–Dec;16(6):741–6

Gait changes in children with spastic diplegia after selective dorsal rhizotomy. Thomas SS, et al. **J Pediatr Orthop** 1996 Nov–Dec;16(6):747–52

Does gait continue to improve 2 years after selective dorsal rhizotomy? Thomas SS, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):387–91

Muscle abnormalities in idiopathic toe–walkers. Eastwood DM, et al. **J Pediatr Orthop B** 1997 Jul;6(3):215–8

Gait patterns in children with hemiplegic spastic cerebral palsy [see comments] Hullin MG, et al. **J Pediatr Orthop B** 1996 Fall;5(4):247–51. Comment in: J Pediatr Orthop B 1996 Fall;5(4):223–4.

Ankle stance angle: a functional index for the evaluation of sciatic nerve recovery after complete transection. Lin FM, et al. **J Reconstr Microsurg** 1996 Apr;12(3):173–7

Stability of walking frames. Deathe AB, et al.

J Rehabil Res Dev 1996 Feb;33(1):30–5

Quantitative gait analysis in patients with medial patellar instability following lateral retinacular release. Kramers-de Quervain IA, et al.
Knee Surg Sports Traumatol Arthrosc 1997;5(2):95–101

Factors affecting appearance patterns of hip-flexion contractures and their effects on postural and gait abnormalities. Shimada T. **Kobe J Med Sci** 1996 Aug; 42(4):271–90

73-year-old man with gait disturbance and imbalance. Evidente VH, et al. **Mayo Clin Proc** 1997 Feb;72(2):165–8

Internal work estimation in three-dimensional gait analysis. Aissaoui R, et al. **Med Biol Eng Comput** 1996 Nov; 34(6):467–71

In-shoe biaxial shear force measurement: the Kent shear system. Akhlaghi F, et al. **Med Biol Eng Comput** 1996 Jul; 34(4):315–7

Multistep pressure platform as a stand-alone system for gait assessment. Macellari V, et al. **Med Biol Eng Comput** 1996 Jul;34(4):299–304

Prediction of human gait parameters from temporal measures of foot-ground contact. Breit GA, et al.
Med Sci Sports Exerc 1997 Apr;29(4):540–7

Gait adaptations before and after anterior cruciate ligament reconstruction surgery. Devita P, et al.
Med Sci Sports Exerc 1997 Jul;29(7):853–9

Freezing phenomenon in patients with parkinsonian syndromes. Giladi N, et al. **Mov Disord** 1997 May; 12(3):302–5

Short-term effects of behavioral treatment on movement initiation and postural control in Parkinson's disease: a controlled clinical study. Müller V, et al. **Mov Disord** 1997 May;12(3):306–14

Quantitative gait analysis in patients with vascular parkinsonism. Zijlmans JC, et al. **Mov Disord** 1996 Sep; 11(5):501–8

Reciprocating gait orthosis powered with electrical muscle stimulation (RGO II). Part I: Performance evaluation of 70 paraplegic patients. Solomonow M, et al.
Orthopedics 1997 Apr;20(4):315–24

Visual factors in the child's gait: effects on locomotor skills. Assaiante C, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):1019–41

Reliability of gait measurements in people with osteoarthritis of the knee. Fransen M, et al. **Phys Ther** 1997 Sep; 77(9):944–53

A comparison of gait with solid, dynamic, and no ankle-foot orthoses in children with spastic cerebral palsy. Radtka SA, et al. **Phys Ther** 1997 Apr;77(4):395–409

Quality framework for force plate testing. Fleming HE, et al. **Proc Inst Mech Eng [H]** 1997;211(3):213–9

Use of an instrumented treadmill for real-time gait symmetry evaluation and feedback in normal and trans-tibial amputee subjects. Dingwell JB, et al. **Prosthet Orthot Int** 1996 Aug; 20(2):101–10

The effect of changing the inertia of a trans-tibial dynamic elastic response prosthesis on the kinematics and ground reaction force patterns. Hillery SC, et al.
Prosthet Orthot Int 1997 Aug;21(2):114–23

Objective measurement of use of the reciprocating gait orthosis (RGO) and the electrically augmented RGO in adult patients with spinal cord lesions. Sykes L, et al.
Prosthet Orthot Int 1996 Dec;20(3):182–90

Double-limb support and step-length asymmetry in below-knee amputees. Isakov E, et al.
Scand J Rehabil Med 1997 Jun;29(2):75–9

Dynamometric assessment of the plantarflexors in hemiparetic subjects: relations between muscular, gait and clinical parameters. Nadeau S, et al.
Scand J Rehabil Med 1997 Sep;29(3):137–46

Gait analysis, isokinetic muscle strength measurement in patients with Parkinson's disease. Pedersen SW, et al.
Scand J Rehabil Med 1997 Jun;29(2):67–74

Treadmill aerobic exercise training reduces the energy expenditure and cardiovascular demands of hemiparetic gait in chronic stroke patients. A preliminary report. Macko RF, et al. **Stroke** 1997 Feb;28(2):326–30

Associations between locomotion, claw lesions and nociceptive threshold in dairy heifers during the peri-partum period. Whay HR, et al. **Vet J** 1997 Sep; 154(2):155–61

[Intra and interindividual variations of pelvic mobility in normal adult walk] Dujardin F, et al.
Rev Chir Orthop Reparatrice Appar Mot 1995;81(7):592–600 (Eng. Abstr.) **(Fre)**

[Acquisition of human bipedal gait from the viewpoint of the aquatic ape theory] Bender R, et al. **Anthropol Anz** 1997 Mar;55(1):1–14 (25 ref.) (Eng. Abstr.) **(Ger)**

[Only a gait disorder? A case report of dissociative disorders] Spitzer C, et al. **Psychiatr Prax** 1997 May;24(3):150–1 **(Ger)**

[Chronic neuroborreliosis with gait ataxia and cognitive disorders] Pennekamp A, et al.
Schweiz Rundsch Med Prax 1997 May 14;86(20):867–9 **(Ger)**

[PNF (proprioceptive neuromuscular facilitation): gait training] Reichel HS. **Sportverletz Sportschaden** 1996 Jun; 10(2):A11–20 **(Ger)**

[Excision arthroplasty of the hip joint in dogs and cats. Clinical, radiographic and gait analysis findings at the surgical veterinary clinic of the Ludwig Maximilians University of Munich] Off W, et al. **Tierarztl Prax** 1997 Jul;25(4):379–87 (Eng. Abstr.) **(Ger)**

[Gait analysis in dogs. 2: Installation of a gait analysis laboratory and locomotion studies] Off W, et al.
Tierarztl Prax 1997 Jul;25(4):303–11 (Eng. Abstr.) **(Ger)**

[Gait analysis in dogs] Off W, et al. **Tierarztl Prax** 1997 Jan; 25(1):8–14 (Eng. Abstr.) **(Ger)**

[Kinematic and EMG pattern of parkinsonian gait] Mitoma H. **Nippon Rinsho** 1997 Jan;55(1):163–7 (Eng. Abstr.) **(Jpn)**

[Occurrence of ileus after voglibose treatment in an elderly diabetic patient with gait disturbance caused by cerebral hemorrhage] Hayaishi R, et al.
Nippon Ronen Igakkai Zasshi 1996 Aug;33(8):607–12 (Eng. Abstr.) **(Jpn)**

[Variability in gait among patients with Alzheimer-type dementia] Nakamura T. **Nippon Ronen Igakkai Zasshi** 1996 Nov;33(11):816–9 (Eng. Abstr.) **(Jpn)**

[A 83 year-old woman with dementia, gait disturbance, and convulsion (Clinical conference)] Matsubayashi S, et al. **No To Shinkei** 1996 Feb;49(2):185–93 (Eng. Abstr.) **(Jpn)**

[A case of frontal gait apraxia caused by hypoxic encephalopathy] Nakamagoe K, et al. **No To Shinkei** 1997 May;49(5):455–9 (Eng. Abstr.) **(Jpn)**

[A 70-year-old man with a progressive gait disturbance and gaze palsy (clinical conference)] Nakamura T, et al.
No To Shinkei 1997 Jan;49(1):93–100 (Eng. Abstr.) **(Jpn)**

[Gait disturbance without motor and sensory involvement in cervical myelopathy—clinical course and radiological findings] Yaguchi H, et al. **No To Shinkei** 1997 Jul; 49(7):627–31 (Eng. Abstr.) **(Jpn)**

[A 85-year-old woman with the onset of progressive gait disturbance at 80 years of the age (clinical conference)] Yoritaka A, et al. **No To Shinkei** 1997 Apr;49(4):379–89 (Eng. Abstr.) **(Jpn)**

[A case of Nothnagel syndrome] Aizawa H, et al.
Rinsho Shinkeigaku 1996 Jul;36(7):889–91 (Eng. Abstr.) **(Jpn)**

[Pathophysiology, diagnosis and treatment of stand and gate disturbances] Kowa H. **Rinsho Shinkeigaku** 1996 Dec; 36(12):1360–1 **(Jpn)**

[Gait disorders in the elderly] Vela L. **Neurologia** 1996 Nov; 11(9):313–5 (10 ref.) **(Spa)**

DRUG EFFECTS

Simple neurobehavioral functional observational battery and objective gait analysis validation by the use of acrylamide and methanol with a built-in recovery period. Youssef AF, et al. **Environ Res** 1997;73(1–2):52–62

Step initiation in Parkinson's disease: influence of levodopa and external sensory triggers. Burleigh-Jacobs A, et al. **Mov Disord** 1997 Mar;12(2):206–15

Machado-Joseph disease/spinocerebellar ataxia 3 responsive to buspirone. Friedman JH. **Mov Disord** 1997 Jul; 12(4):613–4

Effect of intranasal administration of thyrotropin-releasing hormone on ataxic gait in staggerer mice. Matsui K, et al. **Neurosci Lett** 1996 Jul 12;212(2):115–8

Quantifiable bradykinesia, gait abnormalities and Huntington's disease-like striatal lesions in rats chronically treated with 3-nitropropionic acid. Guyot MC, et al.
Neuroscience 1997 Jul;79(1):45–56

[Effect of the Nucleus CMP forte in 46 patients with progressive spastic paraparesis. Randomized and blind study] Cartier L, et al. **Rev Med Chil** 1996 May; 124(5):583–7 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Unilateral pallidotomy for Parkinson's disease promptly improves a wide range of voluntary activities—especially gait and trunk movements. Meyer CH.
Acta Neurochir Suppl (Wien) 1997;68:37–41

3D analysis of human locomotion before and after caloric stimulation. Kubo T, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):143–8

Late recovery of motor functions. Mauritz KH, et al.
Adv Neurol 1997;73:395–408 (47 ref.)

Evidence for a non-linear relationship between leg strength and gait speed. Buchner DM, et al. **Age Ageing** 1996 Sep; 25(5):386–91

The reliability and validity of an obstacle course as a measure of gait and balance in older adults. Rubenstein LZ, et al. **Aging (Milano)** 1997 Feb-Apr;9(1-2):127–35

Postural and gait disturbance correlated with decreased frontal cerebral blood flow in Alzheimer disease. Nakamura T, et al. **Alzheimer Dis Assoc Disord** 1997 Sep;11(3):132–9

Interlimb coordination, .gait, and neural control of quadrupedalism in chimpanzees. Shapiro LJ, et al.
Am J Phys Anthropol 1997 Feb;102(2):177–86

Limb morphology, bipedal gait, and the energetics of hominid locomotion. Steudel K. **Am J Phys Anthropol** 1996 Feb;99(2):345–55 (73 ref.)

Effect of prosthetic mass on swing phase work during above-knee amputee ambulation. Gitter A, et al.
Am J Phys Med Rehabil 1997 Mar-Apr;76(2):114–21

Hemiplegic gait. Relationships between walking speed and other temporal parameters. Roth EJ, et al.
Am J Phys Med Rehabil 1997 Mar-Apr;76(2):128–33

Kinetic gait analysis assessment of meloxicam efficacy in a sodium urate-induced synovitis model in dogs. Cross AR, et al. **Am J Vet Res** 1997 Jun;58(6):626–31

Visuo-vestibular integration in the development of posture and gait. Amblard B. **Arch Ital Biol** 1996 Jul;134(3):249–77 (104 ref.)

Increased gait unsteadiness in community-dwelling elderly fallers. Hausdorff JM, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):278–83

Gait electromyography in children with myelomeningocele at the sacral level. Park BK, et al.
Arch Phys Med Rehabil 1997 May;78(5):471–5

Moderate peripheral neuropathy impairs weight transfer and unipedal balance in the elderly. Richardson JK, et al.
Arch Phys Med Rehabil 1996 Nov;77(11):1152–6

Mechanical work adaptations of above-knee amputee ambulation. Seroussi RE, et al. **Arch Phys Med Rehabil** 1996 Nov;77(11):1209–14

Stability and energy criteria in healthy and paraplegic subject gait. Karčnik T, et al. **Artif Organs** 1997 Mar;21(3):191–4

Wireless control of functional electrical stimulation systems. Matjačić Z, et al. **Artif Organs** 1997 Mar;21(3):197–200

Natural versus artificial sensors applied in peroneal nerve stimulation. Upshaw BJ, et al. **Artif Organs** 1997 Mar; 21(3):227–31

Coupled oscillators utilised as gait rhythm generators of a two-legged walking machine. Zielińska T. **Biol Cybern** 1996 Mar;74(3):263–73

Gait initiation, development of a measuring device for use in a clinical environment. Dawson M, et al.
Biomed Tech (Berl) 1996 Jul-Aug;41(7–8):213–7

An investigation into the relation between step height and ground reaction forces in step exercise: a pilot study. Maybury MC, et al. **Br J Sports Med** 1997 Jun;31(2):109–13

Gait initiation by patients with lower-half parkinsonism. Elble RJ, et al. **Brain** 1996 Oct;119 (Pt 5):1705–16

Kinematic changes following botulinum toxin injection after traumatic brain injury. Wilson DJ, et al. **Brain Inj** 1997 Mar;11(3):157–67

Energy cost and stride duration variability at preferred transition gait speed between walking and running. Brisswalter J, et al. **Can J Appl Physiol** 1996 Dec; 21(6):471–80

Role of the motor cortex in the control of visually triggered gait modifications. Drew T, et al.
Can J Physiol Pharmacol 1996 Apr;74(4):426–42 (85 ref.)

Effects of age on the biomechanics and physiology of gait. Judge JO, et al. **Clin Geriatr Med** 1996 Nov;12(4):659–78 (45 ref.)

Functional knee braces and dynamic performance: a review. Kramer JF, et al. **Clin J Sport Med** 1997 Jan;7(1):32–9 (17 ref.)

A new clinical tool for gait evaluation in Parkinson's disease. Martínez-Martín P, et al. **Clin Neuropharmacol** 1997 Jun; 20(3):183–94

A new DSP-based multichannel EMG acquisition and analysis system. Prasad GV, et al. **Comput Biomed Res** 1996 Oct;29(5):395–406

The influence of flexed-knee gait on the energy cost of walking in children. Duffy CM, et al.
Dev Med Child Neurol 1997 Apr;39(4):234–8

The epidemiology and clinical manifestations of hamstring muscle and plantar foot flexor shortening. Jożwiak M, et al. **Dev Med Child Neurol** 1997 Jul;39(7):481–3

Gait analysis by measuring ground reaction forces in children: changes to an adaptive gait pattern between the ages of one and five years. Preis S, et al.
Dev Med Child Neurol 1997 Apr;39(4):228–33

Muscle function and gait in patients with knee osteoarthritis before and after muscle rehabilitation. Fisher NM, et al.
Disabil Rehabil 1997 Feb;19(2):47–55

Neurophysiology of gait disorders: present and future applications. Dietz V.
Electroencephalogr Clin Neurophysiol 1997 Sep; 103(3):333–55 (234 ref.)

The effect of an acute hoof wall angulation on the stride kinematics of trotting horses [see comments] Clayton HM. **Equine Vet J Suppl** 1990 Jun;(9):86–90. Comment in: Equine Vet J Suppl 1990 Jun;(9):6–7.

The effect of an acute angulation of the hind hooves on diagonal synchrony of trotting horses [see comments] Clayton HM. **Equine Vet J Suppl** 1990 Jun;(9):91–4. Comment in: Equine Vet J Suppl 1990 Jun;(9):6–7.

Influence of carrying book bags on gait cycle and posture of youths. Pascoe DD, et al. **Ergonomics** 1997 Jun; 40(6):631–41

The influence of surface slope on human gait characteristics: a study of urban pedestrians walking on an inclined surface. Sun J, et al. **Ergonomics** 1996 Apr;39(4):677–92

Short-term changes in 10-km race pace aerobic demand and gait mechanics following a bout of high-intensity distance running. Morgan DW, et al. **Eur J Appl Physiol** 1996; 73(3-4):267–72

Functional adaptations in patients with ACL-deficient knees. Hurwitz DE, et al. **Exerc Sport Sci Rev** 1997;25:1–20 (43 ref.)

Modulation, probably presynaptic in origin, of monosynaptic Ia excitation during human gait. Faist M, et al.
Exp Brain Res 1996 Jun;109(3):441–9

Corticospinal input in human gait: modulation of magnetically evoked motor responses. Schubert M, et al.
Exp Brain Res 1997 Jun;115(2):234–46

The trajectory of the point of application of the resultant force of body mass at different walking speeds. Statistical

analysis of human walking. Adachi K, et al. **Folia Primatol (Basel)** 1996;66(1–4):160–80

Comparison of locomotor patterns and the cerebellar complex in Ateles and Macaca. Hirasaki E, et al. **Folia Primatol (Basel)** 1996;66(1–4):209–25

Characteristics of ground reaction forces in normal and chimpanzee–like bipedal walking by humans. Li Y, et al. **Folia Primatol (Basel)** 1996;66(1–4):137–59

Footfall patterns in the early development of the quadrupedal walking of Japanese macaques. Nakano Y. **Folia Primatol (Basel)** 1996;66(1–4):113–25

Kinematic and neuromuscular changes of the gait pattern after Achilles tendon rupture. Neumann D, et al. **Foot Ankle Int** 1997 Jun;18(6):339–41

Rear foot inversion/eversion during gait relative to the subtalar joint neutral position [see comments] Pierrynowski MR, et al. **Foot Ankle Int** 1996 Jul;17(7):406–12. Comment in: Foot Ankle Int 1996 Dec;17(12):786.

Relationship between falls and stride length variability in senile dementia of the Alzheimer type. Nakamura T, et al. **Gerontology** 1996;42(2):108–13

Long–term unrestrained measurement of stride length and walking velocity utilizing a piezoelectric gyroscope. Miyazaki S. **IEEE Trans Biomed Eng** 1997 Aug;44(8):753–9

Enhanced rehabilitation of gait after stroke: a case report of a therapeutic approach using multichannel functional electrical stimulation. Bogataj U, et al. **IEEE Trans Rehabil Eng** 1997 Jun;5(2):221–32

Investigation of spectral content from discrete plantar areas during adult gait: an expansion of rehabilitation technology. Harris GF, et al. **IEEE Trans Rehabil Eng** 1996 Dec; 4(4):360–74 (20 ref.)

An optoelectric plantar "shear" sensing transducer: design, validation, and preliminary subject tests. Lebar AM, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):310–9 (27 ref.)

Time–varying characteristics of visually induced postural sway. Loughlin PJ, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):416–24 (36 ref.)

A mechanical model to study the relationship between gait speed and muscular strength. Nadeau S, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):386–94

Strength, balance and gait before and after kidney transplantation. Bohannon RW, et al. **Int J Rehabil Res** 1997 Jun;20(2):199–203

Reappraisal of the negative impression cast and the subtalar joint neutral position revisited again [letter; comment] Langer S. **J Am Podiatr Med Assoc** 1997 May;87(5):248–50 . Comment on: J Am Podiatr Med Assoc 1997 Jan;87(1):32–3.

Reappraisal of the negative impression cast and the subtalar joint neutral position [see comments] Sobel E, et al. **J Am Podiatr Med Assoc** 1997 Jan;87(1):32–3. Comment in: J Am Podiatr Med Assoc 1997 Apr;87(4):192; discussion 193–5. Comment in: J Am Podiatr Med Assoc 1997 Apr;87(4):192–3; discussion 193–5. Comment in: J Am Podiatr Med Assoc 1997 May;87(5):248–50.

Fractal dynamics of human gait: stability of long–range correlations in stride interval fluctuations. Hausdorff JM, et al. **J Appl Physiol** 1996 May;80(5):1448–57

Altered fractal dynamics of gait: reduced stride–interval correlations with aging and Huntington's disease. Hausdorff JM, et al. **J Appl Physiol** 1997 Jan;82(1):262–9

"Fractal dynamics of human gait: stability of long–range correlations in stride interval fluctuations" [editorial] Liebovitch LS, et al. **J Appl Physiol** 1996 May;80(5):1446–7

Loci of movement of selected points on the femoral head during normal gait. Three–dimensional computer simulation. Ramamurti BS, et al. **J Arthroplasty** 1996 Oct; 11(7):845–52

Comprehensive gait analysis in posterior–stabilized knee arthroplasty. Wilson SA, et al. **J Arthroplasty** 1996 Jun; 11(4):359–67

Leg stiffness and stride frequency in human running. Farley CT, et al. **J Biomech** 1996 Feb;29(2):181–6

A two–part, viscoelastic foot model for use in gait simulations. Gilchrist LA, et al. **J Biomech** 1996 Jun; 29(6):795–8

Comment on "Normalization of temporal–distance parameters in pediatric gait" [letter; comment] Hof AL, et al. **J Biomech** 1997 Mar;30(3):299, 301–2. Comment on: J Biomech 1996 May;29(5):619–25.

Visual guidance to forceplates does not influence ground reaction force variability [letter; comment] Paul JP. **J Biomech** 1996 Jun;29(6):833. Comment on: J Biomech 1995 Sep;28(9):1115–7.

Comment on 'Technique of the measurement of cadence using walkway vibrations' [letter] Paul JP. **J Biomech** 1997 Sep;30(9):997

Pelvic muscle and acetabular contact forces during gait. Pedersen DR, et al. **J Biomech** 1997 Sep;30(9):959–65

The influence of muscles on knee flexion during the swing phase of gait. Piazza SJ, et al. **J Biomech** 1996 Jun; 29(6):723–33

Improved agreement of foot segmental power and rate of energy change during gait: inclusion of distal power terms and use of three–dimensional models. Siegel KL, et al. **J Biomech** 1996 Jun;29(6):823–7

Energy cost, mechanical work and muscular efficiency in swing–through gait with elbow crutches [see comments] Thys H, et al. **J Biomech** 1996 Nov;29(11):1473–82. Comment in: J Biomech 1997 Aug;30(8):861, 863.

Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons. Yang L, et al. **J Biomech** 1996 Feb;29(2):217–26

Contact analysis of ultrahigh molecular weight polyethylene articular plate in artificial knee joint during gait movement. Ishikawa H, et al. **J Biomech Eng** 1996 Aug;118(3):377–86

Identification and correlation of human footfall load parameters using multivariate analysis. Wilson JF, et al. **J Biomech Eng** 1997 Feb;119(1):115–23

Gait quantitation in Parkinson's disease—locomotor disability and correlation to clinical rating scales. Vieregge P, et al. **J Neural Transm** 1997;104(2–3):237–48

Rhythmic auditory–motor facilitation of gait patterns in patients with Parkinson's disease. McIntosh GC, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan;62(1):22–6

Cutaneous reflexes during human gait: electromyographic and kinematic responses to electrical stimulation. Zehr EP, et al. **J Neurophysiol** 1997 Jun;77(6):3311–25

Modified open–door cervical expansive laminoplasty for spondylotic myelopathy: operative technique, outcome, and predictors for gait improvement. Lee TT, et al. **J Neurosurg** 1997 Jan;86(1):64–8

In vitro measurement of strain in the bone cement surrounding the femoral component of total hip replacements during simulated gait and stair–climbing. O'Connor DO, et al. **J Orthop Res** 1996 Sep;14(5):769–77

Walking speed: reference values and correlates for older adults. Bohannon RW, et al. **J Orthop Sports Phys Ther** 1996 Aug;24(2):86–90

Effects of restricted knee flexion and walking speed on the vertical ground reaction force during gait. Cook TM, et al. **J Orthop Sports Phys Ther** 1997 Apr;25(4):236–44

Gait analysis and bivalved serial casting of an athlete with shortened gastrocnemius muscles: a single case design. Selby–Silverstein L, et al. **J Orthop Sports Phys Ther** 1997 Apr;25(4):282–8

Use of a multimemory stopwatch to measure the temporal gait parameters. Wall JC, et al. **J Orthop Sports Phys Ther** 1997 Apr;25(4):277–81

Foot deformities at birth: a longitudinal prospective study over a 16–year period. Widhe T. **J Pediatr Orthop** 1997 Jan–Feb;17(1):20–4

Functional assessment of tibial–nerve recovery in the cat using gait analysis: preliminary study. Lin FM, et al. **J Reconstr Microsurg** 1997 Apr;13(3):177–83

Deletion of individual muscles alters rat walking–track parameters. Reynolds JL, et al. **J Reconstr Microsurg** 1996 Oct;12(7):461–6

Influences of cane length on the stability of stroke patients. Lu CL, et al. **J Rehabil Res Dev** 1997 Jan;34(1):91–100

Analysis of a vertical compliance prosthetic foot. Miller LA, et al. **J Rehabil Res Dev** 1997 Jan;34(1):52–7

Stair ambulation in persons with transtibial amputation: an analysis of the Seattle LightFoot. Powers CM, et al. **J Rehabil Res Dev** 1997 Jan;34(1):9–18

A theory of metabolic costs for bipedal gaits. Minetti AE, et al. **J Theor Biol** 1997 Jun 21;186(4):467–76

Gait patterns after anterior cruciate ligament reconstruction. Bulgheroni P, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(1):14–21

Improvement in step clearance via calf muscle stimulation. Bajd T, et al. **Med Biol Eng Comput** 1997 Mar;35(2):113–6

Development of a low–cost video vector for the display of ground reaction forces during gait. Rowe PJ. **Med Eng Phys** 1996 Oct;18(7):591–5

Two artificial neural systems for generation of gait swing by means of neuromuscular electrical stimulation. Sepulveda F, et al. **Med Eng Phys** 1997 Jan;19(1):21–8

A new system for three–dimensional kinematic trajectory acquisition and analysis—I. The application of an ultrasonic technique to human gait analysis. Zejie Y, et al. **Med Eng Phys** 1996 Jul;18(5):420–6

A new system for three–dimensional kinematic trajectory acquisition and analysis—II. Digital orthogonal integration phase–detection technique. Zejie Y, et al. **Med Eng Phys** 1996 Jul;18(5):427–32

Quadrupedal locomotor movements in monkeys (M. Fuscata) on a treadmill: kinematic analyses. Mori S, et al. **Neuroreport** 1996 Oct 2;7(14):2277–85

Brain functional activity during gait in normal subjects: a SPECT study. Fukuyama H, et al. **Neurosci Lett** 1997 Jun 13;228(3):183–6

Abnormal gait in neurologic disease. Thomann KH, et al. **Optom Clin** 1996;5(3–4):181–92 (9 ref.)

Reciprocating gait orthosis powered with electrical muscle stimulation (RGO II). Part II: Medical evaluation of 70 paraplegic patients. Solomonow M, et al. **Orthopedics** 1997 May;20(5):411–8

Serial kinematic analysis of the canine hindlimb joints after deafferentation and anterior cruciate ligament transection. Vilensky JA, et al. **Osteoarthritis Cartilage** 1997 May; 5(3):173–82

Stress distribution on the hip joint articular surface during gait. Ipavec M, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R275–6

Importance of conventional units [letter; comment] Chung F, et al. **Phys Ther** 1997 May;77(5):561, 563. Comment on: Phys Ther 1996 Dec;76(12):1313–9.

Plantar pressure reduction in an incremental weight–bearing system. Flynn TW, et al. **Phys Ther** 1997 Apr;77(4):410–6

The effects of prosthesis mass on metabolic cost of ambulation in non–vascular trans–tibial amputees. Gailey RS, et al. **Prosthet Orthot Int** 1997 Apr;21(1):9–16

The influence of the reciprocal cable linkage in the advanced reciprocating gait orthosis on paraplegic gait performance. IJzerman MJ, et al. **Prosthet Orthot Int** 1997 Apr; 21(1):52–61

Influence of speed on gait parameters and on symmetry in trans–tibial amputees. Isakov E, et al. **Prosthet Orthot Int** 1996 Dec;20(3):153–8

Energy storage and release of prosthetic feet. Part 1: Biomechanical analysis related to user benefits. Postema K, et al. **Prosthet Orthot Int** 1997 Apr;21(1):17–27

Energy storage and release of prosthetic feet. Part 2: Subjective ratings of 2 energy storing and 2 conventional feet, user choice of foot and deciding factor. Postema K, et al. **Prosthet Orthot Int** 1997 Apr;21(1):28–34

Analysis of torso movement of trans–femoral amputees during level walking. Tazawa E. **Prosthet Orthot Int** 1997 Aug;21(2):129–40

Comparison of gait patterns between healthy and scoliotic patients using time and frequency domain analysis of ground reaction forces. Giakas G, et al. **Spine** 1996 Oct 1;21(19):2235–42

Kinetic and kinematic gait analysis and the assessment of lameness in the dog. DeCamp CE. **Vet Clin North Am Small Anim Pract** 1997 Jul;27(4):825–40 (42 ref.)

Are kinematics of the walk related to the locomotion of a warmblood horse at the trot? Back W, et al. **Vet Q** 1996; 18 Suppl 2:S79–84

Biomechanical effects of rocker–toed shoes in sound horses. Willemen MA, et al. **Vet Q** 1996;18 Suppl 2:S75–8

[Gait impairment in the oldest old] Bloem BR, et al. **Tijdschr Gerontol Geriatr** 1997 Apr;28(2):76–81 (Eng. Abstr.) **(Dut)**

[Effect of music on gait symmetry of stroke patients on a treadmill] Schauer M, et al. **Biomed Tech (Berl)** 1996 Oct; 41(10):291–6 (Eng. Abstr.) **(Ger)**

[Dynamic pedography for assessing functional ankle joint instability] Becker HP, et al. **Unfallchirurg** 1997 Feb; 100(2):133–9 (Eng. Abstr.) **(Ger)**

[Gait analysis after intra–articular calcaneus fractures] Siegmeth A, et al. **Unfallchirurg** 1996 Jan;99(1):52–8 (Eng. Abstr.) **(Ger)**

[Isokinetic evaluation and gait study in patients undergoing arthroplasty of the knee: verification of the efficacy of rehabilitation] Brignoli E, et al. **G Ital Med Lav Ergon** 1996 Jan–May;18(1–3):25–9 (Eng. Abstr.) **(Ita)**

GALACTANS

Increases in calcium absorption with ingestion of soluble dietary fibre, guar–gum hydrolysate, depend on the caecum in partially nephrectomized and normal rats. Hara H, et al. **Br J Nutr** 1996 Nov;76(5):773–84

Addition of hydrolyzed guar to enteral feeding products in type I diabetic patients [letter] Peters AL, et al. **Diabetes Care** 1996 Aug;19(8):899–900

ADMINISTRATION & DOSAGE

Colonic delivery of dexamethasone: a pharmacoscintigraphic evaluation. Kenyon CJ, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):205–13

ANALYSIS

Wheat bread supplemented with depolymerized guar gum reduces the plasma cholesterol concentration in hypercholesterolemic human subjects. Blake DE, et al. **Am J Clin Nutr** 1997 Jan;65(1):107–13

Development of an immunoassay for larch arabinogalactan and its use in the detection of larch arabinogalactan in rat blood. Groman EV, et al. **Carbohydr Res** 1997 Jun 11; 301(1–2):69–76

BIOSYNTHESIS

Structure, function and biogenesis of the mycobacterial cell wall. Brennan PJ, et al. **Biochem Soc Trans** 1997 Feb; 25(1):188–94

The embAB genes of Mycobacterium avium encode an arabinosyl transferase involved in cell wall arabinan biosynthesis that is the target for the antimycobacterial drug ethambutol. Belanger AE, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11919–24

BLOOD

Development of an immunoassay for larch arabinogalactan and its use in the detection of larch arabinogalactan in rat blood. Groman EV, et al. **Carbohydr Res** 1997 Jun 11; 301(1–2):69–76

CHEMISTRY

Structure, function and biogenesis of the mycobacterial cell wall. Brennan PJ, et al. **Biochem Soc Trans** 1997 Feb; 25(1):188–94

Sulfated galactans from Australian specimens of the red alga Phacelocarpus peperocarpos (Gigartinales, Rhodophyta). Liao ML, et al. **Carbohydr Res** 1996 Dec 24;296:237–47

Arabinogalactan proteins: a family of cell–surface and extracellular matrix plant proteoglycans. Bacic A, et al. **Essays Biochem** 1996;31:91–101 (29 ref.)

[Algae polysaccharides. 51. Study of sulfated galactan of red

algae Laurencia coronopus J.Ag. (Rhodophyta, RLhodomelaceae using partially reductive hydrolysis] Usov AI, et al. **Bioorg Khim** 1997 Jun;23(6):505–11 (Eng. Abstr.) **(Rus)**

GENETICS

Clonally diverse rfb gene clusters are involved in expression of a family of related D–galactan O antigens in Klebsiella species. Kelly RF, et al. **J Bacteriol** 1996 Sep; 178(17):5205–14

Molecular characterization of two Brassica napus pollen–expressed genes encoding putative arabinogalactan proteins. Gerster J, et al. **Plant Physiol** 1996 Apr; 110(4):1231–7

METABOLISM

Unique sulfated polysaccharides from ascidians (Chordata, Tunicata). Pavão MS. **Braz J Med Biol Res** 1996 Sep; 29(9):1227–33

Usefulness of cellulase in recovery of Salmonella spp. from guar gum. Amaguaña RM, et al. **J AOAC Int** 1996 Jul–Aug; 79(4):853–7

PHARMACOLOGY

Wheat bread supplemented with depolymerized guar gum reduces the plasma cholesterol concentration in hypercholesterolemic human subjects. Blake DE, et al. **Am J Clin Nutr** 1997 Jan;65(1):107–13

Effects of partially hydrolysed guar gum on feeding behaviour and crop emptying rate in chicks. Feruse M, et al. **Br Poult Sci** 1996 Mar;37(1):223–7

Effect of partially depolymerized guar gum on acute metabolic variables in patients with non–insulin–dependent diabetes. Gatenby SJ, et al. **Diabet Med** 1996 Apr; 13(4):358–64

Effect of viscous fiber (guar) on postprandial motor activity in human small bowel. Schönfeld J, et al. **Dig Dis Sci** 1997 Aug;42(8):1613–7

Fecal losses of sterols and bile acids induced by feeding rats guar gum are due to greater pool size and liver bile acid secretion. Moundras C, et al. **J Nutr** 1997 Jun; 127(6):1068–76

Effectiveness of resistant starch, compared to guar gum, in depressing plasma cholesterol and enhancing fecal steroid excretion. Levrat MA, et al. **Lipids** 1996 Oct;31(10):1069–75

THERAPEUTIC USE

Dietary guar gum improves insulin sensitivity in streptozotocin–induced diabetic rats. Cameron–Smith D, et al. **J Nutr** 1997 Feb;127(2):359–64

GALACTITOL see **DULCITOL**

GALACTOCEREBROSIDASE see **GALACTOSYLCERAMIDASE**

GALACTOCEREBROSIDES see **GALACTOSYLCERAMIDES**

GALACTOKINASE

see related
GALACTOSEMIA

BIOSYNTHESIS

Isolation of a cDNA encoding an Arabidopsis galactokinase by functional expression in yeast. Kaplan CP, et al. **Plant Mol Biol** 1997 Jun;34(3):497–506

GENETICS

Positive–negative KG cassettes for construction of multi–gene deletions using a single drug marker. Ueki T, et al. **Gene** 1996 Dec 12;183(1–2):153–7

Fine structure of the human galactokinase GALK1 gene [letter] Bergsma DJ, et al. **Genome Res** 1996 Oct; 6(10):980–5

Glucose represses the lactose–galactose regulon in Kluyveromyces lactis through a SNF1 and MIG1–dependent pathway that modulates galactokinase (GAL1) gene expression. Dong J, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3657–64

Isolation of a cDNA encoding an Arabidopsis galactokinase by functional expression in yeast. Kaplan CP, et al. **Plant Mol Biol** 1997 Jun;34(3):497–506

METABOLISM

Metabolic pathway of 2–deoxy–2–[18F]fluoro–D–talose in mice: trapping in tissue after phosphorylation by galactokinase. Haradahira T, et al. **Nucl Med Biol** 1994 Feb;21(2):269–76

GALACTORRHEA

BLOOD

Circulating nitric oxide levels in galactorrheic, hyperprolactinemic, amenorrheic women. Shaarawy M, et al. **Fertil Steril** 1997 Sep;68(3):454–9

[Re: A case from practice (359) (letter; comment)] Mindermann T. **Schweiz Rundsch Med Prax** 1997 Feb 4; 86(6):215. Comment on: Schweiz Rundsch Med Prax 1996 Oct 29;85(44):1417–8. **(Ger)**

[Levels of progesterone, estrogen, FSH and LH in galactorrhea of unknown etiology] Radojčić L, et al. **Vojnosanit Pregl** 1997 Mar–Apr;54(2):129–32 (Eng. Abstr.) **(Scr)**

CHEMICALLY INDUCED

Lactation associated with fluoxetine treatment [letter] Arya DK, et al. **Aust N Z J Psychiatry** 1995 Dec;29(4):697

Sertraline and galactorrhea [letter] Lesaca TG. **J Clin Psychopharmacol** 1996 Aug;16(4):333–4

Paroxetine and galactorrhea. Bonin B, et al. **Pharmacopsychiatry** 1997 Jul;30(4):133–4

Risperidone–induced galactorrhea [letter] Schreiber S, et al. **Psychopharmacology (Berl)** 1997 Apr;130(3):300–1

Galactorrhoea induced by a pharmacodynamic interaction between citalopram, alprazolam and tramadol: a case report [letter] Bondolfi G, et al. **Therapie** 1997 Jan–Feb;52(1):76–7

ETIOLOGY

Spinal cord surgery and galactorrhea: a case report. Faubion WA, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):465–6 (2 ref.)

Prolactinomas. Katznelson L, et al. **Cancer Treat Res** 1997; 89:41–55 (40 ref.)

Galactorrhoea and amenorrhoea due to an intradural neurinoma originating from a thoracic intercostal nerve radicle. Katsuren E, et al. **Clin Endocrinol (Oxf)** 1997 May; 46(5):631–6

The clinical challenge of nipple discharge. Taber SW. **J Ky Med Assoc** 1996 Sep;94(9):387–92

Galactorrhea and hyperprolactinemia in schizophrenic patients on neuroleptics: frequency and etiology. Windgassen K, et al. **Neuropsychobiology** 1996;33(3):142–6

THERAPY

Galactorrhea. Haney AF. **Curr Ther Endocrinol Metab** 1997; 6:393–6 (6 ref.)

GALACTOSAMINE

ADVERSE EFFECTS

Induction and prevention of shock–like lethal side effects after microfilaricidal treatment in filariae infected rodents. Zahner H. **Trop Med Parasitol** 1995 Dec;46(4):221–9

ANALOGS & DERIVATIVES

Stereoselective syntheses of the O,N–protected subunits of the tunicamycins. Karpiesiuk W, et al. **Carbohydr Res** 1997 Apr 30;299(4):245–52

Potential chemoprotectant activity of mechanism–based glycosidase inhibitors against ricin toxicity in Chinese hamster ovary and macrophage J774A.1 cell cultures. Hassoun EA, et al. **J Appl Toxicol** 1996 Jan–Feb; 16(1):49–54

ANALYSIS

HPLC methods for the determination of bound and free doxorubicin, and of bound and free galactosamine, in methacrylamide polymer–drug conjugates. Configliacchi E, et al. **J Pharm Biomed Anal** 1996 Oct;15(1):123–9

CHEMICAL SYNTHESIS

Preparation and biological activity of manno– and galacto–validamines, new 5a–carba–glycosylamines as alpha–glycosidase inhibitors. Kameda Y, et al. **Carbohydr Res** 1997 May 16;300(3):259–64

CHEMISTRY

A spectroscopic study of the interaction of the VO2+ cation with the two components of chondroitin sulfate. Etcheverry SB, et al. **Biol Trace Elem Res** 1996 Feb; 51(2):169–76

IMMUNOLOGY

Interleukin 10 reduces lethality and hepatic injury induced by lipopolysaccharide in galactosamine–sensitized mice. Santucci L, et al. **Gastroenterology** 1996 Sep;111(3):736–44

METABOLISM

Gamma scintigraphy of a 123I–labelled N–(2–hydroxypropyl)methacrylamide copolymer–doxorubicin conjugate containing galactosamine following intravenous administration to nude mice bearing hepatic human colon carcinoma. Pimm MV, et al. **J Drug Target** 1996;3(5):385–90

The acquired–B phenomenon. Judd WJ, et al. **Transfus Med Rev** 1996 Apr;10(2):111–7 (43 ref.)

PHARMACOLOGY

Bacterial translocation in D–galactosamine–treated rats in a burn model. Dijkstra HM, et al. **Burns** 1996 Feb;22(1):15–21

Platelet–activating factor is a mediator in tumor necrosis factor/galactosamine–induced lethality. Libert C, et al. **J Inflamm** 1995–96;46(3):139–43

Enhancing effects of phenobarbital and 3–methylcholanthrene on GST–P–positive liver cell foci development in a new medium–term rat liver bioassay using D–galactosamine. Kim HC, et al. **J Toxicol Environ Health** 1997 Apr 11;50(5):519–28

TOXICITY

Kynurenine pathway metabolism in the galactosamine model of hepatic injury. Saito K, et al. **Adv Exp Med Biol** 1996; 398:421–4

Hepatoprotective effect of Hovenia dulcis THUNB. on experimental liver injuries induced by carbon tetrachloride or D–galactosamine/lipopolysaccharide. Hase K, et al. **Biol Pharm Bull** 1997 Apr;20(4):381–5

Immunohistochemical study on galactosamine–induced subacute hepatitis in rats of JCL: Wistar–TGN (ARGHGEN) 1 Nts strain (Mini rats). Uetsuka K, et al. **Exp Anim** 1997 Jul;46(3):203–9

Hepatoprotective role of interleukin 10 in galactosamine/lipopolysaccharide mouse liver injury. Louis H, et al. **Gastroenterology** 1997 Mar;112(3):935–42

Galactosamine–induced fulminant hepatic necrosis in unanesthetized canines. Diaz–Buxo JA, et al. **Hepatology** 1997 Apr;25(4):950–7

Effect of oral supplementation of lactobacilli on bacterial translocation in acute liver injury induced by D–galactosamine. Kasravi FB, et al. **J Hepatol** 1997 Feb; 26(2):417–24

Change of tryptophan–niacin metabolism in D–galactosamine–induced liver injury in rat. Egashira Y, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr;43(2):233–9

The effect of a pulsed magnetic field and that of methyl–silane triol on galactosamine induced hepatitis among rats. Bellossi A, et al. **Panminerva Med** 1996 Sep; 38(3):133–8

Preventive effect of lithospermate B from Salvia miltiorhiza on experimental hepatitis induced by carbon tetrachloride or D–galactosamine/lipopolysaccharide. Hase K, et al. **Planta Med** 1997 Feb;63(1):22–6

Cholesteryl hemisuccinate treatment protects rodents from the toxic effects of acetaminophen, adriamycin, carbon tetrachloride, chloroform and galactosamine. Fariss MW, et al. **Toxicol Lett** 1997 Feb 7;90(2–3):133–44

[Hepatoprotective and immunomodulating effect of phylloquinone in toxic damage to the liver] Konoplia EN, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):75–7 (Eng. Abstr.) **(Rus)**

GALACTOSAMINIDASE

BLOOD

Prognostic utility of serum alpha–N–acetylgalactosaminidase and immunosuppression resulted from deglycosylation of serum Gc protein in oral cancer patients. Yamamoto N, et al. **Cancer Res** 1997 Jan 15;57(2):295–9

Deglycosylation of serum vitamin D3–binding protein by alpha–N–acetylgalactosaminidase detected in the plasma of patients with systemic lupus erythematosus. Yamamoto N, et al. **Clin Immunol Immunopathol** 1997 Mar;82(3):290–8

Micromethod for the fluorimetric determination of plasma N–acetyl–alpha–D–galactosaminidase and study of some of its characteristics. Den Tandt WR, et al. **Enzyme Protein** 1996;49(5–6):273–80

DEFICIENCY

Characterization of clinical assays for leukocyte and fibroblast alpha–N–acetylgalactosaminidase activities for the diagnosis of alpha–N–acetylgalactosaminidase deficiency. Prence EM, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):167–73

Human alpha–N–acetylgalactosaminidase (alpha–NAGA) deficiency: new mutations and the paradox between genotype and phenotype. Keulemans JL, et al. **J Med Genet** 1996 Jun;33(6):458–64

GENETICS

Human alpha–N–acetylgalactosaminidase (alpha–NAGA) deficiency: new mutations and the paradox between genotype and phenotype. Keulemans JL, et al. **J Med Genet** 1996 Jun;33(6):458–64

IMMUNOLOGY

Deglycosylation of serum vitamin D3–binding protein by alpha–N–acetylgalactosaminidase detected in the plasma of patients with systemic lupus erythematosus. Yamamoto N, et al. **Clin Immunol Immunopathol** 1997 Mar;82(3):290–8

ISOLATION & PURIFICATION

Purification and characterization of blood group A–degrading isoforms of alpha–N–acetylgalactosaminidase from Ruminococcus torques strain IX–70. Hoskins LC, et al. **J Biol Chem** 1997 Mar 21;272(12):7932–9

Expression, purification, and characterization of recombinant alpha–N–acetylgalactosaminidase produced in the yeast Pichia pastoris. Zhu A, et al. **Protein Expr Purif** 1996 Dec; 8(4):456–62

METABOLISM

Species–specific beta–N–acetylgalactosaminylation of serum

GALACTOSAMINIDASE

IgG proteins. Aoki N, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):207-13

Trp-16 is essential for the activity of alpha-galactosidase and alpha-N-acetylgalactosaminidase. Zhu A, et al. **Biochim Biophys Acta** 1996 Sep 13;1297(1):99-104

Structural determination of the O-linked sialyl oligosaccharides liberated from fetuin with endo-alpha-N-acetylgalactosaminidase-S by HPLC analysis and 600-MHz 1H-NMR spectroscopy. Ishii-Karakasa I, et al. **Eur J Biochem** 1997 Jul 15; 247(2):709-15

The substrate specificity of the enzyme endo-alpha-N-acetyl-D-galactosaminidase from Diplococcus pneumonia. Brooks MM, et al. **Glycoconj J** 1997 Feb;14(2):183-90

GALACTOSE

see related

GALACTOSEMIA

Repressor induced site-specific binding of HU for transcriptional regulation. Aki T, et al. **EMBO J** 1997 Jun; 16(12):3666-74

Efficacy of treatment after measurable diabeticlike retinopathy in galactose-fed rats. Robison WG Jr, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1066-73

ADMINISTRATION & DOSAGE

Glycolytic pathway, redox state of NAD(P)-couples and energy metabolism in lens in galactose-fed rats: effect of an aldose reductase inhibitor. Obrosova I, et al. **Curr Eye Res** 1997 Jan;16(1):34-43

Body weight gain, feed efficiency, and fecal scores of dairy calves in response to galactosyl-lactose or antibiotics in milk replacers. Quigley JD 3rd, et al. **J Dairy Sci** 1997 Aug;80(8):1751-4

ADVERSE EFFECTS

Age-dependent lens changes in galactose-fed dogs. Lackner PA, et al. **Exp Eye Res** 1997 Mar;64(3):431-6

ANALOGS & DERIVATIVES

(6s)-8-C-chloro-6,7,8-trideoxy-1,2:3, 4-di-O-isopropylidene-alpha-D-galacto-octa-6,7-dieno pyranose. Horton D, et al. **Acta Crystallogr C** 1997 Feb 15;53 (Pt 2):236-8

Enzymatic synthesis of UDP-galactofuranose and an assay for UDP-galactopyranose mutase based on high-performance liquid chromatography. Lee R, et al. **Anal Biochem** 1996 Nov 1;242(1):1-7

Evaluation of C-(beta-D-galactosyl) and C-(2-deoxy-D-lyxo-hex-1-enopyranosyl) (D-galactal type) derivatives as inhibitors of beta-D-galactosidase from Escherichia coli. Kiss L, et al. **Carbohydr Res** 1996 Sep 23;291:43-52

The aqueous solution structure of a lipoteichoic acid from Streptococcus pneumoniae strain R6 containing 2,4-diamino-2,4,6-trideoxy-galactose: evidence for conformational mobility of the galactopyranose ring. Klein RA, et al. **Carbohydr Res** 1996 Feb 7;281(1):79-98

Novel di-O-acetylated GM3s from equine erythrocytes, one containing 4,9-di-O-acetyl-N-glycolylneuraminic acid and another containing 4-O-acetyl-N-glycolylneuraminic acid and 6-O-acetyl-D-galactose. Yachida Y, et al. **Carbohydr Res** 1997 Mar 5;298(3):201-12

UDP-galactofuranose precursor required for formation of the lipopolysaccharide O antigen of Klebsiella pneumoniae serotype O1 is synthesized by the product of the rfbDKPO1 gene. Köplin R, et al. **J Biol Chem** 1997 Feb 14; 272(7):4121-8

ANALYSIS

Application of biosensor for monitoring galactose content. Szabó EE, et al. **Biosens Bioelectron** 1996;11(10):1051-8

Quantitative assessment of whole body galactose metabolism in galactosemic patients. Berry GT, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S43-9

Blood group MN-dependent difference in degree of galactosylation of O-glycans of glycophorin A is restricted to the GalNAc residues located on amino acid residues 2-4 of the glycophorin polypeptide chain. Krotkiewski H, et al. **FEBS Lett** 1997 Apr 14;406(3):296-300

Regarding galactofuranose-containing glycoconjugates [letter; comment] Bock K, et al. **Glycobiology** 1996 Jan; 6(1):3. Comment on: Glycobiology 1995 Sep;5(6):547-52.

Response to the Glyco-Forum [letter] de Lederkremer RM, et al. **Glycobiology** 1997 Jul;7(5):v

BIOSYNTHESIS

Quantitative assessment of whole body galactose metabolism in galactosemic patients. Berry GT, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S43-9

Histone-like protein HU as a specific transcriptional regulator: co-factor role in repression of gal transcription by GAL repressor. Aki T, et al. **Genes Cells** 1996 Feb; 1(2):179-88

The gene cluster directing O-antigen biosynthesis in Yersinia enterocolitica serotype 0:8: identification of the genes for mannose and galactose biosynthesis and the gene for the O-antigen polymerase. Zhang L, et al. **Microbiology** 1996 Feb;142 (Pt 2):277-88

Constitutive expression in gal7 mutants of Kluyveromyces lactis is due to internal production of galactose as an inducer of the Gal/Lac regulon. Cardinali G, et al. **Mol Cell Biol** 1997 Mar;17(3):1722-30

BLOOD see **GALACTOSEMIA**

CHEMISTRY

Hepatic accumulation of glutamic acid branched neogalactosyllipid modified liposomes. Murahashi N, et al. **Biol Pharm Bull** 1997 Mar;20(3):259-66

Automated docking of monosaccharide substrates and analogues and methyl alpha-acarviosinide in the glucoamylase active site. Coutinho PM, et al. **Proteins** 1997 Feb;27(2):235-48

Anti-M and anti-N reactivity with Tn and T activated cells. Harris T, et al. **Transfus Clin Biol** 1997;4(1):87-8

GENETICS

Stimulation of mitotic recombination upon transcription from the yeast GAL1 promoter but not from other RNA polymerase I, II and III promoters. Bratty J, et al. **Curr Genet** 1996 Nov;30(5):381-8

Organization and nucleotide sequence of the Streptococcus mutans galactose operon. Ajdić D, et al. **Gene** 1996 Nov 21;180(1-2):137-44

The Streptomyces galP1 promoter has a novel RNA polymerase recognition sequence and is transcribed by a new form of RNA polymerase in vitro. Brawner ME, et al. **J Bacteriol** 1997 May;179(10):3222-31

The gene cluster directing O-antigen biosynthesis in Yersinia enterocolitica serotype 0:8: identification of the genes for mannose and galactose biosynthesis and the gene for the O-antigen polymerase. Zhang L, et al. **Microbiology** 1996 Feb;142 (Pt 2):277-88

Atomic force microscopic demonstration of DNA looping by GalR and HU. Lyubchenko YL, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):873-6

Nuclear inheritance of a gene affecting mitochondrial gene expression. Sherif ZA, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):443-51

IMMUNOLOGY

Structure and function of the galactose/N-acetyl D-galactosamine inhibitable adhesin of Entamoeba dispar. Mann BJ, et al. **Arch Med Res** 1997;28 Spec No:168-9

Agalactosyl IgG and antibody specificity in rheumatoid arthritis, tuberculosis, systemic lupus erythematosus and myasthenia gravis. Pilkington C, et al. **Autoimmunity** 1995; 22(2):107-11

A monoclonal antibody directed to terminal residue of beta-galactofuranose of a glycolipid antigen isolated from Paracoccidioides brasiliensis: cross-reactivity with Leishmania major and Trypanosoma cruzi. Suzuki E, et al. **Glycobiology** 1997 Jun;7(4):463-8

Anti-alpha-galactoside antibody of the human plasma. Appukuttan PS. **Indian J Biochem Biophys** 1996 Jun; 33(3):159-63 (37 ref.)

A quantitative cell-ELISA for alpha-galactose specific antibodies in human malaria. Satapathy AK, et al. **J Immunoassay** 1996 Aug;17(3):245-56

Removal of xenoreactive human anti-pig antibodies by absorption on recombinant mucin-containing glycoproteins carrying the Gal alpha1,3Gal epitope. Liu J, et al. **Transplantation** 1997 Jun 15;63(11):1673-82

Cobra venom factor stimulates anti-alpha-galactose antibody production in baboons. Implications for pig-to-human xenotransplantation. Taniguchi S, et al. **Transplantation** 1996 Sep 15;62(5):678-81

Synthesis of alpha-gal epitopes on influenza virus vaccines, by recombinant alpha 1,3galactosyltransferase, enables the formation of immune complexes with the natural anti-Gal antibody. Henion TR, et al. **Vaccine** 1997 Aug; 15(11):1174-82

METABOLISM

Binding of mouse sperm to beta-galactose residues on egg zona pellucida and asialofetuin-coupled beads. Mori E, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):95-9

Ca2+/calmodulin-binding proteins in yeast. Catabolite repression and induction by carbon sources. dos Santos CF, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):359-66

Purification in high yield and characterisation of the galactose-specific lectin from the seeds of snake gourd (Trichosanthes anguina). Komath SS, et al. **Biochem Mol Biol Int** 1996 May;39(2):243-52

In vivo oxidation of [13C]galactose in patients with galactose-1-phosphate uridyltransferase deficiency. Berry GT, et al. **Biochem Mol Med** 1995 Dec;56(2):158-65

Ricin toxin contains at least three galactose-binding sites located in B chain subdomains 1 alpha, 1 beta, and 2 gamma. Frankel AE, et al. **Biochemistry** 1996 Nov 26; 35(47):14749-56

Thermodynamics of carbohydrate binding to galectin-1 from Chinese hamster ovary cells and two mutants. A comparison with four galactose-specific plant lectins. Gupta D, et al. **Biochemistry** 1996 Dec 3;35(48):15236-43

Biodistribution of liposomes containing synthetic galactose-terminated diacylglyceryl-poly(ethyleneglycol)s. Shimada K, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):329-41

Double-lectin site ricin B chain mutants expressed in insect cells have residual galactose binding: evidence for more than two lectin sites on the ricin toxin B chain. Fu T, et al. **Bioconjug Chem** 1996 Nov-Dec;7(6):651-8

Calcium-cadmium interaction on sugar absorption across the rabbit jejunum. Mesonero JE, et al. **Biol Trace Elem Res** 1996 Feb;51(2):149-59

Reduction of metastatic properties of BL6 melanoma cells expressing terminal fucose(alpha)1-2-galactose after alpha1,2-fucosyltransferase cDNA transfection. Gorelik E, et al. **Cancer Res** 1997 Jan 15;57(2):332-6

Reduced hepatic functional reserve in cirrhosis and obstructive jaundice with special reference to histological morphometric analysis and galactose elimination capacity. Kaiho T, et al. **Eur Surg Res** 1996;28(5):333-40

Impaired intestinal sugar transport in cirrhotic rats: correction by low doses of insulin-like growth factor I. Castilla-Cortazar I, et al. **Gastroenterology** 1997 Oct; 113(4):1180-7

Enzymatic sulfation of galactose residue of keratan sulfate by chondroitin 6-sulfotransferase. Habuchi O, et al. **Glycobiology** 1996 Jan;6(1):51-7

Gal alpha 4Gal-binding antibodies: specificity and use for the mapping of glycolipids of Burkitt lymphoma and other human tumors. Lanne B, et al. **Glycobiology** 1996 Jun; 6(4):423-31

Human melanoma and Chinese hamster ovary cells galactosylate n-alkyl-beta-glucosides using UDP gal:GlcNAc beta 1,4 galactosyltransferase. Pörtner A, et al. **Glycobiology** 1996 Jan;6(1):7-13

Galactose-induced dimerization of blocked ricin at acidic pH: evidence for a third galactose-binding site in ricin B-chain. Venkatesh YP, et al. **Glycobiology** 1997 Apr; 7(3):329-35

The course of galactose elimination capacity in patients with alcoholic cirrhosis: possible use as a surrogate marker for death. Merkel C, et al. **Hepatology** 1996 Oct;24(4):820-3

A detailed lectin analysis of IgG glycosylation, demonstrating disease specific changes in terminal galactose and N-acetylglucosamine. Bond A, et al. **J Autoimmun** 1997 Feb;10(1):77-85

Functional characterization of roles of GalR and GalS as regulators of the gal regulon. Geanacopoulos M, et al. **J Bacteriol** 1997 Jan;179(1):228-34

Catabolite inactivation of the galactose transporter in the yeast Saccharomyces cerevisiae: ubiquitination, endocytosis, and degradation in the vacuole. Horak J, et al. **J Bacteriol** 1997 Mar;179(5):1541-9

A soluble form of alpha1,3-galactosyltransferase functions within cells to galactosylate glycoproteins. Cho SK, et al. **J Biol Chem** 1997 May 23;272(21):13622-8

Amino acid residues responsible for galactose recognition in yeast Gal2 transporter. Kasahara M, et al. **J Biol Chem** 1997 Jul 4;272(27):16721-4

Asparagine 394 in putative helix 11 of the galactose-H+ symport protein (GalP) from Escherichia coli is associated with the internal binding site for cytochalasin B and sugar. McDonald TP, et al. **J Biol Chem** 1997 Jun 13; 272(24):15189-99

The influence of serum for spreading of tumor cells on synthetic glycolipid films. Sato T, et al. **J Biomater Sci Polym Ed** 1995;7(7):587-99

Comparative effects of recombinant ovine placental lactogen and bovine growth hormone on galactopoiesis in ewes. Min SH, et al. **J Dairy Sci** 1997 Apr;80(4):640-5

Prognostic value of the galactose test in predicting survival of patients with cirrhosis evaluated for liver transplantation. A prospective multicenter Italian study. AISF Group for the Study of Liver Transplantation. Associazione Italiana per lo Studio del Fegato. Salerno F, et al. **J Hepatol** 1996 Oct;25(4):474-80

The myelin-associated glycoprotein of the peripheral nervous system in trembler mutants contains increased alpha 2-3 sialic acid and galactose. Bartoszewicz ZP, et al. **J Neurosci Res** 1996 Mar 1;43(5):587-93

Effect of tunicamycin on the uptake and incorporation of galactose in Hymenolepis diminuta. Hildreth MB, et al. **J Parasitol** 1997 Aug;83(4):555-8

Congenital glucose-galactose malabsorption in Arab children. Abdullah AM, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):561-4

Differences in sialic acid-galactose linkages in the chicken egg amnion and allantois influence human influenza virus receptor specificity and variant selection. Ito T, et al. **J Virol** 1997 Apr;71(4):3357-62

Expression of the 14 kDa galactose-binding protein, galectin-1, on human tubular epithelial cells. Bürger A, et al. **Kidney Int** 1996 Sep;50(3):754-9

Brucella abortus strain 2308 putative glucose and galactose transporter gene: cloning and characterization. Essenberg RC, et al. **Microbiology** 1997 May;143 (Pt 5):1549-55

Nuclear magnetic resonance studies of sugar metabolism in the human infant lens. Cheng HM, et al. **Ophthalmic Res** 1996;28 Suppl 2:5-10

Prenatal identification of a heterozygous status in two fetuses at risk for glucose-galactose malabsorption. Martín MG, et al. **Prenat Diagn** 1996 May;16(5):458-62

Galactose-dependent reversible interaction of Gal3p with Gal80p in the induction pathway of Gal4p-activated genes of Saccharomyces cerevisiae. Yano K, et al.

Proc Natl Acad Sci U S A 1997 Mar 4;94(5):1721–6
Analysis of murine IgG isotype galactosylation in collagen-induced arthritis. Williams PJ, et al. **Scand J Immunol** 1996 Oct;44(4):381–7
Experimental nonenzymatic glycosylation of vitreous collagens occurs by two pathways. Pulido JS. **Trans Am Ophthalmol Soc** 1996;94:1029–72
Glucose-galactose malabsorption: is it an indication to bowel transplantation in childhood? Ferretti F, et al. **Transplant Proc** 1997 May;29(3):1866–7
[Tests for galactose metabolism] Ohya N. **Nippon Rinsho** 1997 Mar;55 Suppl 1:244–7 (9 ref.) **(Jpn)**
[Glucose and galactose absorption in the small intestine of rats in vivo] Gromova LV, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):46–56 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Effects of in situ and systemic lindane treatment on in vivo absorption of galactose and leucine in rat jejunum. Moreno MJ, et al. **Arch Toxicol** 1996;70(11):767–72
Differential clearance of glycoforms of IgG in normal and autoimmune-prone mice. Newkirk MM, et al. **Clin Exp Immunol** 1996 Nov;106(2):259–64
Interactions of cephradine and cefaclor with the intestinal absorption of D-galactose. Idoate I, et al. **J Pharm Pharmacol** 1996 Jun;48(6):645–50

PHARMACOLOGY

Early glycogenolysis and late glycogenesis in human liver after intravenous administration of galactose. Fried R, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G14–9
Isolated rat hepatocytes bind lactoferrins by the RHL-1 subunit of the asialoglycoprotein receptor in a galactose-independent manner. Bennatt DJ, et al. **Biochemistry** 1997 Jul 8;36(27):8367–76
Liver and lens glutathione and cysteine regulation in galactose-fed guinea pigs. Kannan R, et al. **Curr Eye Res** 1997 Apr;16(4):365–71
Effects of aldose reductase inhibitor CT-112 on the corneal epithelial barrier of galactose-fed rats. Yokoi N, et al. **Curr Eye Res** 1997 Jun;16(6):595–9
High galactose levels in vitro and in vivo impair ascorbate regeneration and increase ascorbate-mediated glycation in cultured rat lens. Saxena P, et al. **Exp Eye Res** 1996 Nov; 63(5):535–45
Galactose-induced dimerization of blocked ricin at acidic pH: evidence for a third galactose-binding site in ricin B-chain. Venkatesh YP, et al. **Glycobiology** 1997 Apr; 7(3):329–35
Identification of a Gal/GalNAc lectin in the protozoan Hartmannella vermiformis as a potential receptor for attachment and invasion by the Legionnaires' disease bacterium. Venkataraman C, et al. **J Exp Med** 1997 Aug 18;186(4):537–47
Effects of seven days of galactose feeding and aldose reductase inhibition on mast cells and vessel morphometry in rat sciatic nerve. Brett FM, et al. **J Neurol Sci** 1996 Sep 15;141(1-2):6–12

PHYSIOLOGY

Galactose-inducible expression systems in Candida maltosa using promoters of newly-isolated GAL1 and GAL10 genes. Park SM, et al. **Yeast** 1997 Jan;13(1):21–9

THERAPEUTIC USE

Prevention of hepatic metastases by liver lectin blocking with D-galactose in stomach cancer patients. A prospectively randomized clinical trial. Kosik J, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1411–5
Prevention of hepatic metastases by liver lectin blocking with D-galactose in colon cancer patients. A prospectively randomized clinical trial. Warczynski P, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1223–6

TOXICITY

Schwann cell changes induced as early as one week after galactose intoxication. Mizisin AP, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):611–8
Aldose reductase inhibition increases CNTF-like bioactivity and protein in sciatic nerves from galactose-fed and normal rats. Mizisin AP, et al. **Diabetes** 1997 Apr;46(4):647–52
Calculogenic potential of galactose and fructose in relation to urinary excretion of lithogenic substances in vitamin B6 deficient and control rats. Kaul P, et al. **J Am Coll Nutr** 1996 Jun;15(3):295–302

URINE

Insulin resistance, hyperglycemia, glucosuria, and galactosuria in intensively milk-fed calves: dependency on age and effects of high lactose intake. Hugi D, et al. **J Anim Sci** 1997 Feb;75(2):469–82
Usefulness of urinary galactose for diagnosis of hypolactasia. Alvarez-Coca J, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):79–80

GALACTOSE OXIDASE

CHEMISTRY

Thiols as mechanistic probes for catalysis by the free radical enzyme galactose oxidase. Wachter RM, et al. **Biochemistry** 1996 Nov 12;35(45):14425–35

METABOLISM

Tyrosyl radicals in enzyme catalysis: some properties and a focus on photosynthetic water oxidation. Babcock GT, et al. **Acta Chem Scand** 1997 May;51(5):533–40 (49 ref.)

PHARMACOLOGY

Galactose oxidase-glucan binding domain fusion proteins as targeting inhibitors of dental plaque bacteria. Lis M, et al. **Antimicrob Agents Chemother** 1997 May;41(5):999–1003

GALACTOSEMIA

BLOOD

Altered follicle stimulating hormone isoforms in female galactosaemia patients. Prestoz LL, et al. **Eur J Pediatr** 1997 Feb;156(2):116–20
Polyol pathway and NADPH-dependent reductases in dog leukocytes. Fukase S, et al. **J Diabetes Complications** 1996 Nov-Dec;10(6):304–13

COMPLICATIONS

Neonatal cholestasis syndrome due to galactosemia. Kumar M, et al. **Indian J Gastroenterol** 1996 Jan;15(1):26–7
Vitreous hemorrhage as an ophthalmic complication of galactosemia. Levy HL, et al. **J Pediatr** 1996 Dec; 129(6):922–5 (15 ref.)

DIAGNOSIS

Fanconi-Bickel syndrome presenting in neonatal screening for galactosaemia. Müller D, et al. **J Inherit Metab Dis** 1997 Aug;20(4):607–8

DIET THERAPY

Galactosemia: promise, frustration and challenge [editorial; comment] Matalon R. **J Am Coll Nutr** 1997 Jun;16(3):190–1 . Comment on: J Am Coll Nutr 1997 Jun;16(3):204–8.
Diet does not ensure normal development in galactosemia [see comments] Widhalm K, et al. **J Am Coll Nutr** 1997 Jun;16(3):204–8 (51 ref.). Comment in: J Am Coll Nutr 1997 Jun;16(3):190–1.

DRUG THERAPY

Nerve function and regeneration in diabetic and galactosaemic rats: antioxidant and metal chelator effects. Love A, et al. **Eur J Pharmacol** 1996 Oct 24;314(1-2):33–9
A longitudinal study of cognitive functioning in patients with classical galactosaemia, including a cohort treated with oral uridine. Manis FR, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):549–55

ENZYMOLOGY

Characterization of two mutations associated with epimerase-deficiency galactosemia, by use of a yeast expression system for human UDP-galactose-4-epimerase. Quimby BB, et al. **Am J Hum Genet** 1997 Sep;61(3):590–8
A mouse model of galactose-1-phosphate uridyl transferase deficiency. Leslie ND, et al. **Biochem Mol Med** 1996 Oct; 59(1):7–12

EPIDEMIOLOGY

Galactosaemia--a controversial disorder. Screening & outcome. Ireland 1972-1992. Badawi N, et al. **Ir Med J** 1996 Jan-Feb;89(1):16–7
Incidence and features of galactosaemia in Saudi Arabs. Moammar H, et al. **J Inherit Metab Dis** 1996;19(3):331–4

GENETICS

Molecular basis for Duarte and Los Angeles variant galactosemia. Langley SD, et al. **Am J Hum Genet** 1997 Feb;60(2):366–72
Menstrual and reproductive history of mothers of galactosemic children. Sayle AE, et al. **Fertil Steril** 1996 Mar;65(3):534–8
Molecular heterogeneity of classical and Duarte galactosemia: mutation analysis by denaturing gradient gel electrophoresis. Greber-Platzer S, et al. **Hum Mutat** 1997; 10(1):49–57
Three new mutations (P183T, V150L, 528insG) and eleven sequence polymorphisms in Italian patients with galactose-1-phosphate uridyltransferase (GALT) deficiency. Maceratesi P, et al. **Hum Mutat** 1996; 8(4):369–72

METABOLISM

An aldose reductase inhibitor and aminoguanidine prevent vascular endothelial growth factor expression in rats with long-term galactosemia. Frank RN, et al. **Arch Ophthalmol** 1997 Aug;115(8):1036–47
Early biosynthetic changes in the diabetic-like retinopathy of galactose-fed rats. Roy S, et al. **Diabetologia** 1996 Jun; 39(6):735–8
Quantitative assessment of whole body galactose metabolism in galactosemic patients. Berry GT, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S43–9
Abnormalities of retinal metabolism in diabetes or experimental galactosemia. IV. Antioxidant defense system. Kowluru RA, et al. **Free Radic Biol Med** 1997;22(4):587–92
Expression of galactose-1-phosphate uridyltransferase in the anterior pituitary of rat during the estrous cycle. Daude N, et al. **Neuroendocrinology** 1996 Jul;64(1):42–8
[Galactosemia: a problem still unsolved] Szczypka M. **Pediatr Pol** 1996 Jun;71(6):487–92 (36 ref.) (Eng. Abstr.) **(Pol)**

PATHOLOGY

Quantitation of galactosemic cataracts in dogs using magnetization transfer contrast-enhanced magnetic resonance imaging [see comments] Lizak MJ, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2219–27. Comment in: Invest Ophthalmol Vis Sci 1997 May;38(6):1053.

PHYSIOPATHOLOGY

Neuropsychological and linguistic follow-up studies of children with galactosaemia from an unscreened population. Hansen TW, et al. **Acta Paediatr** 1996 Oct; 85(10):1197–201
[Premature decrease in the endocrine function of testis in rats with hereditary galactosemia] Svechnikov KV, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):318–20 **(Rus)**

PREVENTION & CONTROL

Introduction of newborn screening for galactosemia to Arkansas. West R, et al. **J Ark Med Soc** 1996 Mar; 92(10):501–4 (9 ref.)
Changes in galactosemia screening program. West R. **J Ark Med Soc** 1996 Dec;93(7):327–8
[Tests for galactose metabolism] Ohya N. **Nippon Rinsho** 1997 Mar;55 Suppl 1:244–7 (9 ref.) **(Jpn)**

PSYCHOLOGY

A longitudinal study of cognitive functioning in patients with classical galactosaemia, including a cohort treated with oral uridine. Manis FR, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):549–55

GALACTOSEPHOSPHATE URIDYLYLTRANSFERASE

BIOSYNTHESIS

In vivo and in vitro expression of rat galactose-1-phosphate uridyltransferase (GALT) in the developing central and peripheral nervous system. Daude N, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):190–6

CHEMISTRY

Crystal structures of HINT demonstrate that histidine triad proteins are GalT-related nucleotide-binding proteins. Brenner C, et al. **Nat Struct Biol** 1997 Mar;4(3):231–8
Enzyme HIT [letter] Holm L, et al. **Trends Biochem Sci** 1997 Apr;22(4):116–7

DEFICIENCY

In vivo oxidation of [13C]galactose in patients with galactose-1-phosphate uridyltransferase deficiency. Berry GT, et al. **Biochem Mol Med** 1995 Dec;56(2):158–65
Molecular basis of galactose-1-phosphate uridyltransferase deficiency involving skeletal muscle. Ninfali P, et al. **J Neurol** 1996 Jan;243(1):102–3
Black children deficient in galactose 1-phosphate uridyltransferase: correlation of activity and immunoreactive protein in erythrocytes and leukocytes. Landt M, et al. **J Pediatr** 1997 Jun;130(6):972–80

GENETICS

Molecular basis for Duarte and Los Angeles variant galactosemia. Langley SD, et al. **Am J Hum Genet** 1997 Feb;60(2):366–72
Characterization of the N314D allele of human galactose-1-phosphate uridylyltransferase using a yeast expression system. Fridovich-Keil JL, et al. **Biochem Mol Med** 1995 Dec;56(2):121–30
Experimental design: a useful tool for PCR Optimization. Boleda MD, et al. **Biotechniques** 1996 Jul;21(1):134–40
Molecular heterogeneity of classical and Duarte galactosemia: mutation analysis by denaturing gradient gel electrophoresis. Greber-Platzer S, et al. **Hum Mutat** 1997; 10(1):49–57
Three new mutations (P183T, V150L, 528insG) and eleven sequence polymorphisms in Italian patients with galactose-1-phosphate uridyltransferase (GALT) deficiency. Maceratesi P, et al. **Hum Mutat** 1996; 8(4):369–72
The Q188R mutation in human galactose-1-phosphate uridylyltransferase acts as a partial dominant negative. Elsevier JP, et al. **J Biol Chem** 1996 Dec 13;271(50):32002–7
Molecular characterization of Duarte-1 and Duarte-2

variants of galactose-1-phosphate uridyltransferase. Podskarbi T, et al. **J Inherit Metab Dis** 1996;19(5):638-44
Vaginal agenesis (Mayer-Rokitansky-Kuster-Hauser syndrome) associated with the N314D mutation of galactose-1-phosphate uridyl transferase (GALT). Cramer DW, et al. **Mol Hum Reprod** 1996 Mar;2(3):145-8
Endometriosis associated with the N314D mutation of galactose-1-phosphate uridyl transferase (GALT). Cramer DW, et al. **Mol Hum Reprod** 1996 Mar;2(3):149-52

METABOLISM

Molecular basis for Duarte and Los Angeles variant galactosemia. Langley SD, et al. **Am J Hum Genet** 1997 Feb;60(2):366-72
Structural analysis of the H166G site-directed mutant of galactose-1-phosphate uridylyltransferase complexed with either UDP-glucose or UDP-galactose: detailed description of the nucleotide sugar binding site. Thoden JB, et al. **Biochemistry** 1997 Feb 11;36(6):1212-22
Functional requirements of the active site position 185 in the human enzyme galactose-1-phosphate uridylyltransferase. Quimby BB, et al. **J Biol Chem** 1996 Oct 25;271(43):26835-42
Endometriosis associated with the N314D mutation of galactose-1-phosphate uridyl transferase (GALT). Cramer DW, et al. **Mol Hum Reprod** 1996 Mar;2(3):149-52
Expression of galactose-1-phosphate uridyltransferase in the anterior pituitary of rat during the estrous cycle. Daude N, et al. **Neuroendocrinology** 1996 Jul;64(1):42-8
[Galactosemia: a problem still unsolved] Szczypka M. **Pediatr Pol** 1996 Jun;71(6):487-92 (36 ref.) (Eng. Abstr.) **(Pol)**

GALACTOSIDASES

see related
GANGLIOSIDOSES

CHEMISTRY

Effect of bacterial galactosidase treatment on the nutritional status of soybean seeds and its milk derivative. Sanni AI, et al. **Nahrung** 1997 Feb;41(1):18-21

URINE

Some urinary enzymes in bilharziasis. el-Naggar MM, et al. **Int Urol Nephrol** 1996;28(2):167-73

GALACTOSIDES

Evaluation of cyclohexenoesculetin-beta-D-galactoside and 8-hydroxyquinoline-beta-D-galactoside as substrates for the detection of beta-galactosidase. James AL, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3868-70
Note: cyclohexenoesculetin-beta-D-glucoside: a new substrate for the detection of bacterial beta-D-glucosidase. James AL, et al. **J Appl Microbiol** 1997 Apr;82(4):532-6

BIOSYNTHESIS

Expression of alpha-1,3-galactose and other type 2 oligosaccharide structures in a porcine endothelial cell line transfected with human alpha-1,2-fucosyltransferase cDNA. Sepp A, et al. **J Biol Chem** 1997 Sep 12; 272(37):23104-10
Formation of beta-galactosides of pyridoxine using Sporobolomyces singularis. Suzuki Y, et al. **Methods Enzymol** 1997;280:71-7

CHEMICAL SYNTHESIS

Evaluation of C-(beta-D-galactosyl) and C-(2-deoxy-D-lyxo-hex-1-enopyranosyl) (D-galactal type) derivatives as inhibitors of beta-D-galactosidase from Escherichia coli. Kiss L, et al. **Carbohydr Res** 1996 Sep 23;291:43-52
Synthesis of alpha- and beta-linked tyvelose epitopes of the Trichinella spiralis glycan: 2-acetamido-2-deoxy-3-O-(3,6-dideoxy-D-arabino-hexopyranosyl)-beta -D-galactopyranosides. Probert MA, et al. **Carbohydr Res** 1996 Dec 24;296:149-70
Neoglycopeptide synthesis and purification in multi-gram scale: preparation of O-(2,3,4,6-tetra-O-acetyl-beta-D-galactopyranosyl)-N alpha-fluoren-9-yl-methoxycarbonyl-hydroxyproline and its use in the pilot-scale synthesis of the potent analgesic glycopeptide O1.5-beta-D-galactopyranosyl [DMet2, Hyp5]enkephalinamide. Torres JL, et al. **J Pept Sci** 1997 Mar-Apr;3(2):99-109

CHEMISTRY

Immunomodulating ability of galactoside-specific lectin standardized and depleted mistletoe extract. Beuth J, et al. **Arzneimittelforschung** 1995 Nov;45(11):1240-2
Effect of immunomodulation with galactoside-specific mistletoe lectin on experimental listeriosis. Stoffel B, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):439-42

IMMUNOLOGY

Specificity of xenoreactive anti-Gal alpha 1-3Gal IgM for alpha-galactosyl ligands. Parker W, et al. **Glycobiology** 1996 Jul;6(5):499-506
Anti-GaL IgG antibodies in sera of newborn humans and baboons and its significance in pig xenotransplantation. Minanov OP, et al. **Transplantation** 1997 Jan 27;63(2):182-6

ISOLATION & PURIFICATION

A novel monogalactosylacylglycerol with inhibitory effect on platelet aggregation from the cyanophyceae Oscillatoria rosea. Rho MC, et al. **J Nat Prod** 1996 Mar;59(3):308-9
A novel inhibitor of platelet aggregation from the Cyanophyceae Oscillatoria rosea (NIES-208) [letter] Rho MC, et al. **Planta Med** 1996 Oct;62(5):473-4

METABOLISM

Induction of hepatic uptake of lipoprotein(a) by cholesterol-derivatized cluster galactosides. Biessen EA, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec; 16(12):1552-8
Purification of a 63 kDa beta-D-galactoside binding lectin from cuttlefish, Todarodes pacificus. Ozeki Y. **Biochem Mol Biol Int** 1997 Mar;41(3):633-40
Structure-reactivity relationships for beta-galactosidase (Escherichia coli, lac Z). 3. Evidence that Glu-461 participates in Brønsted acid-base catalysis of beta-D-galactopyranosyl group transfer. Richard JP, et al. **Biochemistry** 1996 Sep 24;35(38):12377-86
Structure-reactivity relationships for beta-galactosidase (Escherichia coli, lac Z). 4. Mechanism for reaction of nucleophiles with the galactosyl-enzyme intermediates of E461G and E461Q beta-galactosidases. Richard JP, et al. **Biochemistry** 1996 Sep 24;35(38):12387-401
Molecular form and subcellular distribution of acid beta-galactosidase in fibroblasts from patients with GM1 gangliosidosis, Morquio B disease and galactosialidosis. Takiyama N, et al. **Brain Dev** 1997 Mar;19(2):126-30
Colon cancer mucin: a new ligand for the beta-galactoside-binding protein galectin-3. Bresalier RS, et al. **Cancer Res** 1996 Oct 1;56(19):4354-7
Intermolecular aglycon transfer of a phenyl 1-thiogalactosaminide derivative under trichloroacetimidate glycosylation conditions. Belot F, et al. **Carbohydr Res** 1996 Aug 26;290(1):79-86
Recognition of beta-D-Gal p-(1—>3)-beta-D-Glc pNAc-OR acceptor analogues by the Lewis alpha-(1-->3/4)-fucosyltransferase from human milk. Du M, et al. **Carbohydr Res** 1996 Jun 5;286:87-105
Verapamil inhibition of enzymatic product efflux leads to improved detection of beta-galactosidase activity in lacZ-transfected cells. Poot M, et al. **Cytometry** 1997 May 1;28(1):36-41
Switching amino-terminal cytoplasmic domains of alpha(1,2)fucosyltransferase and alpha(1,3)galactosyltransferase alters the expression of H substance and Galalpha(1,3)Gal. Osman N, et al. **J Biol Chem** 1996 Dec 20;271(51):33105-9
Identification and characterization of galectin-9, a novel beta-galactoside-binding mammalian lectin. Wada J, et al. **J Biol Chem** 1997 Feb 28;272(9):6078-86
[Soluble beta-galactoside-binding lectins] Fink NE. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(1):1-10 (61 ref.) (Eng. Abstr.) **(Spa)**

PHARMACOLOGY

Hapten inhibitors of the endogenous galactose binding lectins and anti-lectin antibodies inhibit primitive streak formation in the early chick embryo. Jeeva J, et al. **Glycobiology** 1996 Jul;6(5):517-26
Effects on cultured neonatal mouse calvaria of the flavonoids isolated from Boerhaavia repens. Li J, et al. **J Nat Prod** 1996 Nov;59(11):1015-8

GALACTOSYL CERAMIDES see
GALACTOSYLCERAMIDES

GALACTOSYLCERAMIDASE

BIOSYNTHESIS

Retroviral vector-mediated transfer of the galactocerebrosidase (GALC) cDNA leads to overexpression and transfer of GALC activity to neighboring cells. Rafi MA, et al. **Biochem Mol Med** 1996 Aug;58(2):142-50
The neurosteroid progesterone increases the expression of myelin proteins (MBP and CNPase) in rat oligodendrocytes in primary culture. Jung-Testas I, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):439-43

GENETICS

Adult-onset Krabbe's disease in siblings with novel mutations in the galactocerebrosidase gene. Bernardini GL, et al. **Ann Neurol** 1997 Jan;41(1):111-4
Retroviral vector-mediated transfer of the galactocerebrosidase (GALC) cDNA leads to overexpression and transfer of GALC activity to neighboring cells. Rafi MA, et al. **Biochem Mol Med** 1996 Aug;58(2):142-50
Characterization of the rhesus monkey galactocerebrosidase (GALC) cDNA and gene and identification of the mutation causing globoid cell leukodystrophy (Krabbe disease) in this primate. Luzi P, et al. **Genomics** 1997 Jun 1; 42(2):319-24
Adult onset globoid cell leukodystrophy (Krabbe disease): analysis of galactosylceramidase cDNA from four Japanese patients. Furuya H, et al. **Hum Genet** 1997 Sep; 100(3-4):450-6
Molecular cloning and expression of cDNA for murine galactocerebrosidase and mutation analysis of the twitcher mouse, a model of Krabbe's disease. Sakai N, et al. **J Neurochem** 1996 Mar;66(3):1118-24

GALACTOSYLCERAMIDES

ANALYSIS

A human kidney cDNA which induces a cell surface protein epitope recognized by a monoclonal antibody against galactosylceramide. Sosa MA, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):636-41
Expression of a unique globo-series glycolipid in cultured rat dorsal root ganglion neurons: relationship with neuronal development. Pal S, et al. **Neurochem Res** 1996 Apr; 21(4):403-9

BIOSYNTHESIS

Age-related differences in mouse Schwann cell response to cyclic AMP. Yamada H, et al. **Brain Res** 1996 May 6; 719(1-2):187-93
TGF-betas upregulate NCAM and L1 expression in cultured Schwann cells, suppress cyclic AMP-induced expression of O4 and galactocerebroside, and are widely expressed in cells of the Schwann cell lineage in vivo. Stewart HJ, et al. **Glia** 1995 Dec;15(4):419-36

CHEMISTRY

NMR study of the conformation of galactocerebroside in bilayers and solution: galactose reorientation during the metastable-stable gel transition. Bruzik KS, et al. **Biochemistry** 1997 Jan 21;36(3):566-75
2H and 13C nuclear magnetic resonance study of N-palmitoylgalactosylsphingosine (cerebroside)/cholesterol bilayers. Ruocco MJ, et al. **Biophys J** 1996 Oct;71(4):1776-88

GENETICS

Molecular heterogeneity of late-onset forms of globoid-cell leukodystrophy [published erratum appears in Am J Hum Genet 1997 May;60(5):1264] De Gasperi R, et al. **Am J Hum Genet** 1996 Dec;59(6):1233-42

IMMUNOLOGY

A receptor-based immunoassay to detect Staphylococcus enterotoxin B in biological fluids. Mukhin DN, et al. **Anal Biochem** 1997 Feb 15;245(2):213-7
Demyelinating antibodies to myelin oligodendrocyte glycoprotein and galactocerebroside induce degradation of myelin basic protein in isolated human myelin. Menon KK, et al. **J Neurochem** 1997 Jul;69(1):214-22
Post-infectious encephalitis with anti-galactocerebroside antibody subsequent to Mycoplasma pneumoniae infection. Nishimura M, et al. **J Neurol Sci** 1996 Sep 1;140(1-2):91-5
Encephalomyelitis subsequent to mycoplasma infection with elevated serum anti-Gal C antibody. Kumada S, et al. **Pediatr Neurol** 1997 Apr;16(3):241-4
[Antibodies to brain galactocerebrosides in the serum and cerebrospinal fluid of patients with disseminated sclerosis] Totolian NA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):75-7 (Eng. Abstr.) **(Rus)**

METABOLISM

Co-expression of CXCR4/fusin and galactosylceramide in the human intestinal epithelial cell line HT-29. Delézay O, et al. **AIDS** 1997 Sep;11(11):1311-8
HIV infection of human fetal neural cells is mediated by gp120 binding to a cell membrane-associated molecule that is not CD4 nor galactocerebroside. Hao HN, et al. **Brain Res** 1997 Aug 1;764(1-2):149-57
Differential distribution of galactosylceramide, H antigen, and carcinoembryonic antigen in rhesus macaque digestive mucosa. Butor C, et al. **J Histochem Cytochem** 1996 Sep; 44(9):1021-31

PHARMACOLOGY

Sulphatide and its precursor galactosylceramide influence the production of cytokines in human mononuclear cells. Buschard K, et al. **APMIS** 1996 Dec;104(12):938-44
Enhancing effects of agelasphin-11 on natural killer cell activities of normal and tumor-bearing mice. Kobayashi E, et al. **Biol Pharm Bull** 1996 Mar;19(3):350-3
Effects of alpha-galactosylceramides on bone marrow cells in vitro and hematopoiesis in vivo. Motoki K, et al. **Biol Pharm Bull** 1996 Jul;19(7):952-5
alpha-Galactosylceramide (AGL-517) treatment protects mice from lethal irradiation. Inoue H, et al. **Exp Hematol** 1997 Aug;25(9):935-44
Stimulation of phagocytosis and phagosome-lysosome (P-L) fusion of human polymorphonuclear leukocytes by sulfatide (galactosylceramide-3-sulfate). Yamaguchi S, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):107-11
Synthetic soluble analogs of galactosylceramide (GalCer)

bind to the V3 domain of HIV-1 gp120 and inhibit HIV-1-induced fusion and entry. Fantini J, et al. **J Biol Chem** 1997 Mar 14;272(11):7245-52

KRN7000, a novel immunomodulator, and its antitumor activities. Kobayashi E, et al. **Oncol Res** 1995; 7(10-11):529-34

Enhancing effects of (2S,3S,4R)-1-O-(alpha-D-galactopyranosyl)-2-(N-hexacosanoylamino) -1,3,4-octadecanetriol (KRN7000) on antigen-presenting function of antigen-presenting cells and antimetastatic activity of KRN7000-pretreated antigen-presenting cells. Yamaguchi Y, et al. **Oncol Res** 1996;8(10-11):399-407

THERAPEUTIC USE

Antitumor activities of combined treatment with a novel immunomodulator, (2S,3S,4R)-1-O-(alpha-D-Galactopyranosyl)-2-(N-Hexacosanoylamino)-1,3,4 - octadecanetriol (KRN7000), and radiotherapy in tumor-bearing mice. Motoki K, et al. **Oncol Res** 1996;8(4):155-62

GALACTOSYLGALACTOSYLGLUCOSYLCERAMIDASE see **CERAMIDE TRIHEXOSIDASE**

GALACTOSYLSPHINGOSINE see **PSYCHOSINE**

GALACTOSYLTRANSFERASES

ANTAGONISTS & INHIBITORS

Association of malaria with inactivation of alpha1,3-galactosyl transferase in catarrhines. Ramasamy R, et al. **Biochim Biophys Acta** 1997 May 24;1360(3):241-6

Studies on the inhibition of sialyl- and galactosyltransferases. Kleineidam RG, et al. **Glycoconj J** 1997 Jan;14(1):57-66

BIOSYNTHESIS

Localization of mRNA for UDP-galactose: ceramide galactosyltransferase in the brain during mouse development. Kagawa T, et al. **Dev Neurosci** 1996; 18(4):309-18

Expression cloning of rat cDNA encoding UDP-galactose:GD2 beta1,3-galactosyltransferase that determines the expression of GD1b/GM1/GA1. Miyazaki H, et al. **J Biol Chem** 1997 Oct 3;272(40):24794-9

Adenovirus-mediated gene transfer of antisense ribozyme for alpha (1,3)galactosyltransferase gene and alpha (1,2)fucosyltransferase gene in xenotransplantation. Hayashi S, et al. **Transplant Proc** 1997 Jun;29(4):2213

BLOOD

Leucocyte beta 1,3 galactosyltransferase activity in IgA nephropathy. Allen AC, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):701-6

CHEMISTRY

Cloning, characterization, and expression of human ceramide galactosyltransferase cDNA. Kapitonov D, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):449-53

One-pot enzymatic synthesis of the Gal alpha 1-->3Gal beta 1-->4GlcNAc sequence with in situ UDP-Gal regeneration. Hokke CH, et al. **Glycoconj J** 1996 Aug; 13(4):687-92

DEFICIENCY

Functional breakdown of the lipid bilayer of the myelin membrane in central and peripheral nervous system by disrupted galactocerebroside synthesis. Bosio A, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13280-5

Studies of alpha-Gal dependent hyperacute xenotransplant rejection using double knockout embryonic stem cells. Katayama A, et al. **Transplant Proc** 1997 Jun;29(4):2262

Combination of decay-accelerating factor expression and alpha1,3-galactosyltransferase knockout affords added protection from human complement-mediated injury. van Denderen BJ, et al. **Transplantation** 1997 Sep 27;64(6):882-8

GENETICS

Cloning, characterization, and expression of human ceramide galactosyltransferase cDNA. Kapitonov D, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):449-53

Porcine alpha1,3-galactosyltransferase: tissue-specific and regulated expression of splicing isoforms. Vanhove B, et al. **Biochim Biophys Acta** 1997 Mar 27;1356(1):1-11

Chromosomal localization of alpha-galactosyltransferase 1 (GGTA1) and elongation factor 2 (EEF2) genes in river buffalo by FISH. Iannuzzi L, et al. **Chromosome Res** 1997 Jun;5(4):274-6

Sequential interchange of four amino acids from blood group B to blood group A glycosyltransferase boosts catalytic activity and progressively modifies substrate recognition in human recombinant enzymes. Seto NOL, et al. **J Biol Chem** 1997 May 30;272(22):14133-8

Effect of antisense ribozyme to alpha (1,3)galactosyl transferase gene on the expression of Gal alpha (1,3)Gal epitope. Hayashi S, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):893

Changes in cell surface glycosylation in alpha1,3-galactosyltransferase knockout and alpha1,2-fucosyltransferase transgenic mice. Shinkel TA, et al. **Transplantation** 1997 Jul 27;64(2):197-204

IMMUNOLOGY

Flow cytometric detection of the Golgi apparatus using antibodies to glycosyltransferases. Mrkoci Felner K, et al. **Cytometry** 1997 May 1;28(1):50-7

ISOLATION & PURIFICATION

Purification, properties, and immunological characterization of GalT-3 (UDP-galactose: GM2 ganglioside, beta 1-3 galactosyltransferase) from embryonic chicken brain. Ghosh S, et al. **Glycoconj J** 1995 Dec;12(6):838-47

METABOLISM

Age-related effects of chronic ethanol intake on physical properties, lipid composition and galactosyltransferase activity of rat small intestine microsomes. Lindi C, et al. **Alcohol Alcohol** 1996 Mar;31(2):183-9

Novel aspects of interaction between UDP-gal and GlcNAc beta-1,4-galactosyltransferase: transferability and remarkable inhibitory activity of UDP-(mono-O-methylated gal), UDP-Fuc and UDP-man. Endo T, et al. **Bioorg Med Chem** 1996 Nov; 4(11):1939-48

Synthesis and characterization of a carbene-generating biotinylated N-acetylglucosamine for photoaffinity labeling of beta-(1-->4)-galactosyltransferase. Hatanka Y, et al. **Carbohydr Res** 1996 Nov 20;294:95-108

The specificity of an alpha-(1-->2)-L-galactosyltransferase from albumen glands of the snail Helix pomatia. Lüttge H, et al. **Carbohydr Res** 1997 Jan 17;297(3):281-8

Synthesis of octyl O- and S-glycosides related to the GPI anchor of Trypanosoma brucei and their in vitro galactosylation by trypanosomal alpha-galactosyltransferases. Ziegler T, et al. **Carbohydr Res** 1996 Dec 13;295:7-23

O-Glycosylation and cellular differentiation in a subpopulation of mucin-secreting HT-29 cell line. Hennebicq-Reig S, et al. **Exp Cell Res** 1997 Aug 25; 235(1):100-7

Oxidized low density lipoproteins stimulate galactosyltransferase activity, ras activation, p44 mitogen activated protein kinase and c-fos expression in aortic smooth muscle cells. Chatterjee S, et al. **Glycobiology** 1997 Jul;7(5):703-10

Differential recognition of glycoprotein acceptors by terminal glycosyltransferases. Yeh J, et al. **Glycobiology** 1997 Mar;7(2):241-51

Biosynthesis in vitro of neolactotetraosylceramide by a galactosyltransferase from mouse T-lymphoma: purification and kinetic studies; synthesis of neolacto and polylactosamine core. Basu M, et al. **Glycoconj J** 1996 Jun; 13(3):423-32

Studies of the action of ceramide-like substances (D- and L-PDMP) on sphingolipid glycosyltransferases and purified lactosylceramide synthase. Chatterjee S, et al. **Glycoconj J** 1996 Jun;13(3):481-6

Prenatal alcohol exposure affects galactosyltransferase activity and glycoconjugates in the Golgi apparatus of fetal rat hepatocytes. Renau-Piqueras J, et al. **Hepatology** 1997 Feb;25(2):343-50

Insulin-like effects on liver Golgi membrane preparations of bis(oxalato)oxovanadate(IV) complex ion, a new vanadate compound. Kordowiak AM, et al. **Horm Metab Res** 1997 Mar;29(3):101-5

Alcohol consumption during pregnancy alters glycoconjugates, galactosyltransferase activity and beta-COP proteins in the Golgi apparatus of hepatocytes in developing liver. Seguí JM, et al. **Int J Dev Biol** 1996; Suppl 1:285S-286S

Lipopolysaccharide biosynthesis in Rhizobium leguminosarum. Novel enzymes that process precursors containing 3-deoxy-D-manno-octulosonic acid. Brozek KA, et al. **J Biol Chem** 1996 Dec 13;271(50):32112-8

A soluble form of alpha1,3-galactosyltransferase functions within cells to galactosylate glycoproteins. Cho SK, et al. **J Biol Chem** 1997 May 23;272(21):13622-8

Switching amino-terminal cytoplasmic domains of alpha(1,2)fucosyltransferase and alpha(1,3)galactosyltransferase alters the expression of H substance and Galalpha(1,3)Gal. Osman N, et al. **J Biol Chem** 1996 Dec 20;271(51):33105-9

High expression of uridine diphosphate-galactose: Lc3Cer beta 1-3 galactosyltransferase in human uterine endometrial cancer-derived cells as measured by enzyme-linked immunosorbent assay and thin-layer chromatography-immunostaining. Yoshiki J, et al. **Jpn J Cancer Res** 1997 Jul;88(7):669-77

Uptake and incorporation of an epitope-tagged sialic acid donor into intact rat liver Golgi compartments. Functional localization of sialyltransferase overlaps with beta-galactosyltransferase but not with sialic acid O-acetyltransferase. Chammas R, et al. **Mol Biol Cell** 1996 Nov;7(11):1691-707

Expression of a unique globo-series glycolipid in cultured rat dorsal root ganglion neurons: relationship with neuronal development. Pal S, et al. **Neurochem Res** 1996 Apr; 21(4):403-9

Xyloglucan galactosyl- and fucosyltransferase activities from pea epicotyl microsomes. Faïk A, et al. **Plant Physiol** 1997 May;114(1):245-54

Synthesis of alpha-gal epitopes on influenza virus vaccines, by recombinant alpha 1,3galactosyltransferase, enables the formation of immune complexes with the natural anti-Gal antibody. Henion TR, et al. **Vaccine** 1997 Aug; 15(11):1174-82

PHYSIOLOGY

Chronic ethanol induced impairment of hepatic glycosylation machinery in rat is independent of dietary carbohydrate. Ghosh P, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):76-81

GALAGO

GROWTH & DEVELOPMENT

Dental age determination in young bushbabies. Molez-Verrière N, et al. **Folia Primatol (Basel)** 1997; 68(2):106-9

PHYSIOLOGY

A biomechanical investigation into the absence of leaping in the locomotor repertoire of the slender loris (Loris tardigradus). Sellers WI. **Folia Primatol (Basel)** 1996; 67(1):1-14

Visual field representation in striate and prestriate cortices of a prosimian primate (Galago garnetti). Rosa MG, et al. **J Neurophysiol** 1997 Jun;77(6):3193-217

A preliminary investigation of the relationship between ovarian steroids, LH, reproductive behaviour and vaginal changes in lesser bushbabies (Galago moholi). Lipschitz DL. **J Reprod Fertil** 1996 Jul;107(2):167-74

GALANIN

[Galanin, a new neuropeptide. Review] Sauer-Ramírez JL, et al. **Ginecol Obstet Mex** 1996 Jul;64:325-31 (17 ref.) (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

Acute administration of human galanin in normal subjects reduces the potentiating effect of pyridostigmine-induced cholinergic enhancement on release of norepinephrine and pancreatic polypeptide. degli Uberti EC, et al. **Neuroendocrinology** 1996 Nov;64(5):398-404

Aqueduct occlusion does not impair feeding induced by either third or fourth ventricle galanin injection. Koegler FH, et al. **Obes Res** 1997 May;5(3):262-7

ANALOGS & DERIVATIVES

Galantide improves social memory in rats. Arletti R, et al. **Pharmacol Res** 1997 Apr;35(4):317-9

Contractile action of galanin analogues on rat isolated gastric fundus strips is modified by tachyphylaxis to substance P. Korolkiewicz R, et al. **Pharmacol Res** 1996 Jun;33(6):361-5

Galanin, galantide and galanin (1-14)-[alpha-aminobutyric acid8]-scyliorhinin-I: structure dependent effects on the rat isolated gastric fundus. Korolkiewicz R, et al. **Pharmacol Res** 1997 Jan;35(1):7-16

ANALYSIS

Ultrastructural localization of galanin and galanin receptors in the guinea pig median eminence. Dutriez I, et al. **Brain Res** 1997 Apr 4;753(1):36-46

Synaptic organization of damaged infraorbital nerve axons in perinatal rats: demonstration by galanin immunocytochemistry. Crissman RS, et al. **Exp Brain Res** 1996 Jun;110(1):47-54

Increased galanin and neuropeptide-Y immunoreactivity within the hypothalamus of ovariectomised ewes following a prolonged period of reduced body weight is associated with changes in plasma growth hormone but not gonadotropin levels. Barker-Gibb ML, et al. **Neuroendocrinology** 1996 Sep;64(3):194-207

Innervation of the pancreas of the one-humped camel (Camelus dromedarius) by neuropeptide-Y, galanin, calcitonin-gene-related-peptide, atrial natriuretic peptide and cholecystokinin. Adeghate E, et al. **Neuropeptides** 1996 Oct;30(5):420-4

Distribution and possible origin of galanin-like immunoreactive nerve fibers in the mammalian dental pulp. Wakisaka S, et al. **Regul Pept** 1996 Apr 23;62(2-3):137-43

Immunohistochemical localization of serotonin, galanin, cholecystokinin, and methionine-enkephalin in adrenal medullary cells of the chicken. Ohmori Y, et al. **Tissue Cell** 1997 Apr;29(2):199-205

ANTAGONISTS & INHIBITORS

Effect of three galanin antagonists on the pressor response to galanin in the Cane toad, Bufo marinus. Mahns DA, et al. **Regul Pept** 1996 Dec 17;67(3):163-8

BIOSYNTHESIS

The effect of NGF, BDNF and bFGF on expression of galanin in cultured rat dorsal root ganglia. Kerekes N, et al. **Brain Res** 1997 Apr 18;754(1-2):131-41

Sexual differentiation of galanin gene expression in gonadotropin-releasing hormone neurons. Finn PD, et al. **Endocrinology** 1996 Nov;137(11):4767-72

Leukaemia inhibitory factor induced in the sciatic nerve after axotomy is involved in the induction of galanin in sensory neurons. Sun Y, et al. **Eur J Neurosci** 1996 Oct; 8(10):2213–20

Involvement of leukemia inhibitory factor in the increases in galanin and vasoactive intestinal peptide mRNA and the decreases in neuropeptide Y and tyrosine hydroxylase mRNA in sympathetic neurons after axotomy. Sun Y, et al. **J Neurochem** 1996 Oct;67(4):1751–60

Inhibition of steroid-induced galanin mRNA expression in GnRH neurons by specific NMDA-receptor blockade. Rossmanith WG, et al. **J Neuroendocrinol** 1996 Mar; 8(3):179–84

Induction of galanin mRNA in GnRH neurons by estradiol and its facilitation by progesterone. Rossmanith WG, et al. **J Neuroendocrinol** 1996 Mar;8(3):185–91

Expression of galanin and a galanin receptor in several sensory systems and bone anlage of rat embryos. Xu ZQ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14901–5

aFGF, bFGF and NGF differentially regulate neuropeptide expression in dorsal root ganglia after axotomy and induce autotomy. Ji RR, et al. **Regul Pept** 1996 Oct 22;66(3):179–89

Long-term culture of galanin expressing encapsulated RIN 1056a cells in vitro. Gardiner JV, et al. **Transplant Proc** 1997 Jun;29(4):2019–20

BLOOD

Effects of ovine corticotropin-releasing hormone injection and desmopressin coadministration on galanin and adrenocorticotropin plasma levels in normal women. Ceresini G, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):607–10

Evaluation of circulating galanin levels after exercise-induced pituitary hormone secretion in man. Ceresini G, et al. **Metabolism** 1997 Mar;46(3):282–6

CHEMISTRY

A study of melittin, motilin and galanin in reversed micellar environments, using circular dichroism spectroscopy. Ohman A, et al. **Biophys Chem** 1996 Mar 7;59(1–2):185–92

Fluorescence and Monte Carlo conformational studies of the (1–15) galanin amide fragment. Wiczk W, et al. **Biophys Chem** 1996 Feb 8;58(3):303–12

Conformational analysis of galanin using end to end distance distribution observed by Förster resonance energy transfer. Kulinski T, et al. **Eur Biophys J** 1997;26(2):145–54

Molecular cloning and characterisation of the mouse preprogalanin gene. Kofler B, et al. **Gene** 1996 Dec 5; 182(1–2):71–5

DRUG EFFECTS

Regulation of galanin by dexamethasone in the rat anterior pituitary and the uterus. Vrontakis M, et al. **Neuroendocrinology** 1996 Jul;64(1):20–4

GENETICS

Galanin gene expression in radiothyroidectomy-induced thyrotroph adenomas. Hyde JF, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E24–30

Galanin gene expression declines with adulthood in the cholinergic fields of the horizontal diagonal band of male rats. Planas B, et al. **Brain Res** 1996 Jul 22;728(1):57–64

The rat galanin-gene promoter: response to members of the nuclear hormone receptor family, phorbol ester and forskolin. Corness JD, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):11–23

Olfactory bulbectomy increases prepro-galanin mRNA levels in the rat locus coeruleus. Holmes PV, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):184–8

Regulation of galanin gene expression in the hypothalamic paraventricular nucleus of the obese Zucker rat by manipulation of dietary macronutrients. Mercer JG, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):202–8

Galanin gene expression in hypothalamic GnRH-containing neurons of the rat: a model for autocrine regulation. Rossmanith WG, et al. **Horm Metab Res** 1996 Jun; 28(6):257–66 (64 ref.)

Nerve growth factor induces galanin gene expression in the rat basal forebrain: implications for the treatment of cholinergic dysfunction. Planas B, et al. **J Comp Neurol** 1997 Mar 24;379(4):563–70

Cyclic feeding behaviour and changes in hypothalamic galanin and neuropeptide Y gene expression induced by zinc deficiency in the rat. Selvais PL, et al. **J Neuroendocrinol** 1997 Jan;9(1):55–62

Induction of neuropeptide Y gene expression in the dorsal medial hypothalamic nucleus in two models of the agouti obesity syndrome. Kesterson RA, et al. **Mol Endocrinol** 1997 May;11(5):630–7

Localization of preprogalanin messenger RNA in rat brain: identification of transcripts in a subpopulation of cerebellar Purkinje cells. Ryan MC, et al. **Neuroscience** 1996 Feb; 70(3):709–28

Galanin messenger RNA during postnatal development of the rat brain: expression patterns in Purkinje cells differentiate anterior and posterior lobes of cerebellum. Ryan MC, et al. **Neuroscience** 1997 Jun;78(4):1113–27

Differential effects of peripheral manipulations on vibrissae-related patterns in the trigeminal brainstem. Chiaia NL, et al. **Somatosens Mot Res** 1996;13(2):81–93

Long-term age-related consequences of forelimb damage upon expression of primary afferent phenotypes in the cervical dorsal horn. Rhoades RW, et al. **Somatosens Mot Res** 1995;12(3–4):199–208

Effect of estrogen on the expression of galanin mRNA in pituitary tumor-sensitive and tumor-resistant rat strains. Gregg DW, et al. **Steroids** 1996 Aug;61(8):468–72

IMMUNOLOGY

Development of galanin- and enkephalin-like immunoreactivities in the sympathoadrenal lineage of the avian embryo. In vivo and in vitro studies. Barreto-Estrada JL, et al. **Dev Neurosci** 1997;19(4):328–36

Sexual dimorphism of galanin-like immunoreactivity in the brain and pituitary of goldfish, Carassius auratus. Rao PD, et al. **J Chem Neuroanat** 1996 Apr;10(2):119–35

ISOLATION & PURIFICATION

High-performance separation methods in the analysis of a new peptide family: the galanins. Janáky T, et al. **J Chromatogr B Biomed Appl** 1996 Feb 9;676(1):7–12

Immunohistochemical identification and effects of atrial natriuretic peptide, pancreastatin, leucine-enkephalin, and galanin in the porcine pancreas. Adeghate E, et al. **Peptides** 1996;17(3):503–9

METABOLISM

Pharmacological characterization and tissue distribution of the human and rat GALR1 receptors. Sullivan KA, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):823–8

A confocal microscopic analysis of galaninergic hyperinnervation of cholinergic basal forebrain neurons in Alzheimer's disease. Bowser R, et al. **Brain Pathol** 1997 Apr;7(2):723–30

Localization of galanin and its binding sites in the quail brain. Azumaya Y, et al. **Brain Res** 1996 Jul 15;727(1–2):187–95

Galanin-containing nerve terminals that are involved in a dual innervation of the striated muscles of the rat esophagus. Kuramoto H, et al. **Brain Res** 1996 Sep 23; 734(1–2):186–92

The prepubertal ontogeny of galanin-like immunoreactivity in the male Meishan pig brain. Pearson PL, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):125–39

Regulation of vasoactive intestinal polypeptide and galanin mRNA stabilities. Tolentino PJ, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):89–98

Galanin-like immunoreactivity in the sea cucumber Holothuria glaberrima. Díaz-Miranda L, et al. **Cell Tissue Res** 1996 Dec;286(3):385–91

Localization, identification, and action of galanin in the frog adrenal gland. Gasman S, et al. **Endocrinology** 1996 Dec; 137(12):5311–8

Role of N-terminal active sites of galanin in neurally evoked circular muscle contractions in the guinea-pig ileum. Kakuyama H, et al. **Eur J Pharmacol** 1997 Jun 18; 329(1):85–91

Neonatal damage to the rat's infraorbital nerve upregulates both galanin and neuropeptide Y in individual vibrissae-related primary afferent axons. Boylan CB, et al. **Exp Brain Res** 1996 Dec;112(3):475–84

Influence of leukemia inhibitory factor on galanin/GMAP and neuropeptide Y expression in mouse primary sensory neurons after axotomy. Corness J, et al. **Exp Brain Res** 1996 Nov;112(1):79–88

Plasticity of galaninergic fibers following neurotoxic damage within the rat basal forebrain: initial observations. de Lacalle S, et al. **Exp Neurol** 1997 Aug;146(2):361–6

Galanin, substance P and calcitonin gene-related peptide are colocalized in some afferent neurons innervating the porcine ovary. Majewski M, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:91–2

Growth hormone inhibits the hypophysectomy-induced expression of galanin in hypothalamic neurons of the toad (Bufo arenarum hensel). González Nicolini MV, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):323–32

Possible evidence for endogenous production of a novel galanin-like peptide. Wang ZL, et al. **J Clin Invest** 1997 Jul 1;100(1):189–96

Galanin-immunoreactive synaptic terminals on basal forebrain cholinergic neurons in the rat. Henderson Z, et al. **J Comp Neurol** 1997 Jun 23;383(1):82–93

Distribution of galanin-like immunoreactive elements in the brain of the adult lamprey Lampetra fluviatilis. Jiménez AJ, et al. **J Comp Neurol** 1996 Apr 29;368(2):185–97

Regulation of anterior pituitary galanin and vasoactive intestinal peptide by oestrogen and prolactin status. Hammond PJ, et al. **J Endocrinol** 1997 Feb;152(2):211–9

Demonstration, localization, and development of galanin receptors in the quail oviduct. Tsutsui K, et al. **J Exp Zool** 1997 Jan 1;277(1):57–65

Chemical sympathectomy and postganglionic nerve transection produce similar increases in galanin and VIP mRNA but differ in their effects on peptide content. Hyatt-Sachs H, et al. **J Neurobiol** 1996 Aug;30(4):543–55

125I-galanin binding sites in Alzheimer's disease: increases in hippocampal subfields and a decrease in the caudate nucleus. Rodríguez-Puertas R, et al. **J Neurochem** 1997 Mar;68(3):1106–13

L-Ala-substituted rat galanin analogs distinguish between hypothalamic and jejunal galanin receptor subtypes. Juréus A, et al. **J Pept Res** 1997 Mar;49(3):195–200

Hypothalamic galanin gene expression and peptide levels in relation to circulating insulin: possible role in energy balance. Tang C, et al. **Neuroendocrinology** 1997 Apr; 65(4):265–75

Regulation of galanin by dexamethasone in the rat anterior pituitary and the uterus. Vrontakis M, et al. **Neuroendocrinology** 1996 Jul;64(1):20–4

Alteration to the levels of galanin in uninjured contralateral rat saphenous nerves after unilateral saphenous nerve section. Perry MJ. **Neurosci Lett** 1996 Oct 18; 217(2–3):206–8

The structural localization of galanin, and its function in modulating acetylcholine release in the olfactory bulb of adult rat. Kasa P, et al. **Neuroscience** 1996 Jun;72(3):709–23

Differential expression of galanin immunoreactivities in the primary sensory neurons following partial and complete sciatic nerve injuries. Ma W, et al. **Neuroscience** 1997 Aug; 79(4):1183–95

Immunochemical study of galanin in the cat digestive tract and autonomic ganglia. Philippe C, et al. **Peptides** 1996; 17(8):1331–5

Studies of the release of immunoreactive galanin and dynorphin A(1–8) in the spinal cord of the rat. Duggan AW, et al. **Prog Brain Res** 1996;110:137–47 (74 ref.)

PHARMACOLOGY

Analysis of galanin and the galanin antagonist M40 on delayed non-matching-to-position performance in rats lesioned with the cholinergic immunotoxin 192 IgG-saporin. McDonald MP, et al. **Behav Neurosci** 1997 Jun;111(3):552–63

Galanin receptor antagonist M40 blocks galanin-induced choice accuracy deficits on a delayed-nonmatching-to-position task. McDonald MP, et al. **Behav Neurosci** 1996 Oct;110(5):1025–32

Differential effects of the neuropeptide galanin on striatal acetylcholine release in anaesthetized and awake rats. Antoniou K, et al. **Br J Pharmacol** 1997 Jul;121(6):1180–6

Centrally infused galanin-(1–15) but not galanin-(1–29) reduces the baroreceptor reflex sensitivity in the rat. Díaz Z, et al. **Brain Res** 1996 Nov 25;741(1–2):32–7

Effect of galanin and enterostatin on sympathetic nerve activity to interscapular brown adipose tissue. Nagase H, et al. **Brain Res** 1996 Feb 12;709(1):44–50

Galanin microinjected into the medial septum inhibits scopolamine-induced acetylcholine overflow in the rat ventral hippocampus. Robinson JK, et al. **Brain Res** 1996 Feb 12;709(1):81–7

Effects of dietary preference and galanin administration in the paraventricular or amygdaloid nucleus on diet self-selection. Smith BK, et al. **Brain Res Bull** 1996; 39(3):149–54

The alpha2-adrenergic receptor is more effective than the galanin receptor in activating G-proteins in RINm5F beta-cell membranes. Gillison SL, et al. **Diabetes** 1997 Mar; 46(3):401–7

Galanin exerts dual action on inositol-specific phospholipase C activity in isolated pancreatic islets. Malm D, et al. **Endocr J** 1997 Apr;44(2):283–8

Effects of galanin on 8-OH-DPAT induced decrease in body temperature and brain 5-hydroxytryptamine metabolism in the mouse. Patel S, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2–3):197–204

Fragments of galanin message-associated peptide (GMAP) modulate the spinal flexor reflex in rat. Xu XJ, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):301–6

Actions of galanin and some of its analogues on rat isolated gastric fundus. Sliwiński W, et al. **Fundam Clin Pharmacol** 1996;10(5):442–9

Potentiating effect of galanin on GHRH-induced GH release. Comparison between old and young subjects. Cremagnani L, et al. **Horm Metab Res** 1996 Feb;28(2):101–4

Possible evidence for endogenous production of a novel galanin-like peptide. Wang ZL, et al. **J Clin Invest** 1997 Jul 1;100(1):189–96

Galanin positively modulates prolactin secretion in normal women. Grottoli S, et al. **J Endocrinol Invest** 1996 Dec; 19(11):739–44

Intracerebroventricular galanin and N-terminal galanin fragment enhance the morphine-induced analgesia in the rat. Przewłocka B, et al. **J Neural Transm Gen Sect** 1995; 102(3):229–35

Signalling pathways mediating secretory and mitogenic responses to galanin and pituitary adenylate cyclase-activating polypeptide in the 235-1 clonal rat lactotroph cell line. Hammond PJ, et al. **J Neuroendocrinol** 1996 Jun;8(6):457–64

Galanin inhibits continuous and phasic firing in rat hypothalamic magnocellular neurosecretory cells. Papas S, et al. **J Neurosci** 1997 Aug 15;17(16):6048–56

Inhibitory effects of galanin on growth hormone (GH) release in cultured GH-secreting adenoma cells: comparative study with octreotide, GH-releasing hormone, and thyrotropin-releasing hormone. Giustina A, et al. **Metabolism** 1997 Apr;46(4):425–30

Evaluation of intestinal antisecretory peptides coefficient of dissociation: a functional approach. Eto B. **Methods Find Exp Clin Pharmacol** 1995 Dec;17(10):685–91

Effects of galanins pGAL1-29 and hGAL1-30 and their fragments on cholinergic neurons present in the nucleus of the vertical diagonal band. Farkas Z, et al. **Neurobiology (Bp)** 1996;4(1–2):105–7

The role of human galanin (hGAL1-30), hGAL1-19 and hGAL17-30 in the release of acetylcholine in the striatum: a neuropharmacological study. Sebók L, et al. **Neurobiology (Bp)** 1996;4(3):237-9

Effects of rat galanin and galanin message associated peptide (GMAP) on rat growth hormone secretion and stimulating effect of gamma-aminobutyric acid on galanin release from rat hypothalamus. Nishiki M, et al. **Neurosci Lett** 1997 May 2;226(3):199-202

Galanin inhibits long-term potentiation at Schaffer collateral-CA1 synapses in guinea-pig hippocampal slices. Sakurai E, et al. **Neurosci Lett** 1996 Jul 5;212(1):21-4

Effects of ventral hippocampal galanin on spatial learning and on in vivo acetylcholine release in the rat. Orgen SO, et al. **Neuroscience** 1996 Dec;75(4):1127-40

Feeding induced by pharmacological blockade of fatty acid metabolism is selectively attenuated by hindbrain injections of the galanin receptor antagonist, M40. Koegler FH, et al. **Obes Res** 1996 Jul;4(4):329-36

Galanin modulates sphincter of Oddi function in the Australian brush-tailed possum. Baker RA, et al. **Peptides** 1996;17(6):933-41

Galanin is a potent inhibitor of glucagon-like peptide-1 secretion from rat ileum. Herrmann-Rinke C, et al. **Peptides** 1996;17(4):571-6

Differential effects of baseline macronutrient preferences on macronutrient selection after galanin, NPY, and an overnight fast. Smith BK, et al. **Peptides** 1997;18(2):207-11

Contractile action of galanin analogues on rat isolated gastric fundus strips is modified by tachyphylaxis to substance P. Korolkiewicz R, et al. **Pharmacol Res** 1996 Jun;33(6):361-5

Galanin, galantide and galanin (1-14)-[alpha-aminobutyric acid8]-scyliorhinin-I: structure dependent effects on the rat isolated gastric fundus. Korolkiewicz R, et al. **Pharmacol Res** 1997 Jan;35(1):7-16

Galanin microinjected into the medial preoptic nucleus facilitates female- and male-typical sexual behaviors in the female rat. Bloch GJ, et al. **Physiol Behav** 1996 Jun; 59(6):1147-54

Cholecystokinin, neuropeptide Y and galanin modulate the release of pancreatic somatostatin-25 and somatostatin-14 in vitro. Eilertson CD, et al. **Regul Pept** 1996 Jul 5; 63(2-3):105-12

The effect of galanin and galanin fragments on blood pressure in the Cane toad, Bufo marinus. Mahns DA, et al. **Regul Pept** 1996 Dec 17;67(3):153-62

Evidence that galanin is a parasympathetic, rather than a sympathetic, neurotransmitter in the baboon pancreas. Verchere CB, et al. **Regul Pept** 1996 Dec 3;67(2):93-101

[Effect of sex on the increase of GH induced by galanin, alone or in combination with GHRH with or without pyridostigmine in pubescent subjects] Guzzaloni G, et al. **Minerva Endocrinol** 1996 Jun;21(2):53-7 (Eng. Abstr.) **(Ita)**

PHYSIOLOGY

Participation of galanin in baroreflex inhibition of heart rate by hypothalamic PVN in rat. Chen YL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1823-8

Participation of endogenous galanin in the suppression of baroreceptor reflex response by locus coeruleus in the rat. Shih CD, et al. **Brain Res** 1996 May 20;721(1-2):76-82

The role of galanin and its receptor in the feedback regulation of growth hormone secretion. Chan YY, et al. **Endocrinology** 1996 Dec;137(12):5303-10

Localization, identification, and action of galanin in the frog adrenal gland. Gasman S, et al. **Endocrinology** 1996 Dec; 137(12):5311-8

An interactive physiological role of neuropeptide Y and galanin in pulsatile pituitary luteinizing hormone secretion. Xu B, et al. **Endocrinology** 1996 Dec;137(12):5297-302

Morphololgical analyses of galaninergic inputs to the rat spinal parasympathetic nucleus. Ohmachi T, et al. **Exp Brain Res** 1996 Jun;109(3):399-406

Galanin inhibits ACTH release in vitro and can be demonstrated immunocytochemically in dispersed corticotrophs. Cimini V. **Exp Cell Res** 1996 Nov 1; 228(2):212-5

Nutritional infertility: the role of the interconnected hypothalamic neuropeptide Y-galanin-opioid network. Kalra SP, et al. **Front Neuroendocrinol** 1996 Oct; 17(4):371-401 (219 ref.)

Neuropeptides and senile dementia: focus on galanin. Valenti G, et al. **Funct Neurol** 1997 May-Aug;12(3-4):181-6

[The neuropeptide galanin and the seizure reactions of the developing brain] Chepurnov SA, et al. **Usp Fiziol Nauk** 1997 Apr-Jun;28(2):3-20 (102 ref.) (Eng. Abstr.) **(Rus)**

GALANTAMIN see **GALANTHAMINE**

GALANTHAMINE

Galanthamine. Fulton B, et al. **Drugs Aging** 1996 Jul; 9(1):60-5; discussion 66-7 (23 ref.)

PHARMACOLOGY

Nivalin P-induced changes in muscle fiber membrane processes. Radicheva N, et al. **Methods Find Exp Clin Pharmacol** 1996 Jun;18(5):301-8

GALLAMINE see **GALLAMINE TRIETHIODIDE**

GALLAMINE TRIETHIODIDE

PHARMACOLOGY

Discrimination between subtypes of apamin-sensitive Ca(2+)-activated K+ channels by gallamine and a novel bis-quaternary quinolinium cyclophane, UCL 1530. Dunn PM, et al. **Br J Pharmacol** 1996 Jan;117(1):35-42

TOXICITY

The inhibitory effect of the neuromuscular blocking agent, gallamine triethiodide, on camel retina acetylcholinesterase activity. Al-Jafari AA. **Toxicol Lett** 1997 Jan 15; 90(1):45-51

GALLAMONIUM IODIDE see **GALLAMINE TRIETHIODIDE**

GALLBLADDER

consider also terms at CHOLECYST-

see related
CHOLECYSTECTOMY
CHOLECYSTOGRAPHY
CHOLECYSTOSTOMY

ABNORMALITIES

Suprahepatic gallbladder associated with cholelithiasis. Sato N, et al. **Am J Gastroenterol** 1997 Aug;92(8):1388-9

Are left-sided gallbladders really located on the left side? Nagai M, et al. **Ann Surg** 1997 Mar;225(3):274-80 (32 ref.)

Hepatobiliary anatomy in patients with transposition of the gallbladder: implications for safe laparoscopic cholecystectomy [letter; comment] Armstrong CP. **Br J Surg** 1997 Mar;84(3):427. Comment on: Br J Surg 1996 Oct;83(10):1442-3.

Hepatobiliary anatomy in patients with transposition of the gallbladder: implications for safe laparoscopic cholecystectomy [see comments] Idu M, et al. **Br J Surg** 1996 Oct;83(10):1442-3. Comment in: Br J Surg 1997 Mar;84(3):427.

Gallbladder in the left side of the lower abdomen. Szántó I, et al. **Endoscopy** 1997 Jan;29(1):49

Hypoplastic right hepatic lobe with retrohepatic gallbladder complicated by hepatolithiasis and liver abscess: a case report. Hsu KL, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):803-7

Intrathoracic gallbladder. Pijnappel RM, et al. **J Belge Radiol** 1996 Dec;79(6):277

Multiseptate gallbladder: biliary manometry and scintigraphy. Saimura M, et al. **J Gastroenterol** 1996 Feb; 31(1):133-6

Gallbladder malformation with gastric wall-like architecture. Santonja C, et al. **J Pediatr Surg** 1996 Sep;31(9):1292-3

Double gallbladder of swine. Mochizuki S, et al. **Kaibogaku Zasshi** 1996 Dec;71(6):650-5

Gallbladder abnormalities associated with hypoplasia of the right lobe of the liver. Kakitsubata Y, et al. **Radiat Med** 1997 Mar-Apr;15(2):71-4

Gallbladder and cystic duct absence. An infrequent malformation in laparoscopic surgery. Cabajo Caballero MA, et al. **Surg Endosc** 1997 May;11(5):483-4 (8 ref.)

Laparoscopic treatment of gallbladder duplication. A plea for removal of both gallbladders. Gigot J, et al. **Surg Endosc** 1997 May;11(5):479-82 (41 ref.)

Duplicate gallbladder during laparoscopic cholecystectomy. Cummiskey RD, et al. **Surg Laparosc Endosc** 1997 Jun; 7(3):268-70

Laparoscopic diagnosis of gallbladder agenesis. Singh B, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):129-32 (30 ref.)

[Agenesis of the gallbladder in adults: a laparoscopic diagnosis] Kestenholz PB, et al. **Chirurg** 1997 Jun; 68(6):643-5 (Eng. Abstr.) **(Ger)**

[The "floating" gallbladder--a surgical problem] Dudenko GI, et al. **Klin Khir** 1996;(9):10-2 **(Rus)**

[Case of congenital absence of gallbladder] Fedorova NP. **Klin Med (Mosk)** 1997;75(1):44 **(Rus)**

ANATOMY & HISTOLOGY

Gadolinium-ethoxybenzyl-DTPA as a hepatobiliary contrast agent for use in MR cholangiography: results of an in vivo phase-I clinical evaluation. Bollow M, et al. **Eur Radiol** 1997;7(1):126-32

Visualization of routes of lymphatic drainage of the gallbladder with a carbon particle suspension. Uesaka K, et al. **J Am Coll Surg** 1996 Oct;183(4):345-50

MRI of acute cholecystitis: comparison with the normal gallbladder and other entities. Loud PA, et al. **Magn Reson Imaging** 1996;14(4):349-55

An unusual position of the gallbladder following nephrectomy for large neoplasms. Lang I, et al. **Pediatr Radiol** 1997 Jun;27(6):528-9

BLOOD SUPPLY

Gallbladder varices: demonstration of direct communication to intrahepatic portal veins by color doppler sonography and CT during arterial portography. Gabata T, et al. **Abdom Imaging** 1997 Jan-Feb;22(1):82-4

Cholecystojejunostomy varices demonstrated by enteroclysis. Miller JT Jr, et al. **Abdom Imaging** 1997 Sep-Oct; 22(5):474-6

Power versus color Doppler sonography of the normal cystic artery: implications for patients with acute cholecystitis. Olcott EW, et al. **AJR Am J Roentgenol** 1997 Mar; 168(3):703-5

Sonography of acute cholecystitis: comparison of color and power Doppler sonography in detecting a hypervascularized gallbladder wall. Uggowitzer M, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):707-12

Anatomy and clinical importance of cholecystic venous drainage: helical CT observations during injection of contrast medium into the cholecystic artery. Yoshimitsu K, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):505-10

Spontaneous gallbladder perforation without acute inflammation or gallstones. Nomura T, et al. **Am J Gastroenterol** 1997 May;92(5):895

Microangiopathy in acute acalculous cholecystitis. Hakala T, et al. **Br J Surg** 1997 Sep;84(9):1249-52

Arteriovenous malformation of the gallbladder. Tajima H, et al. **Eur Radiol** 1997;7(3):333-4

Left-sided gallbladder with anomalies of the intrahepatic portal vein and anomalous junction of the pancreaticobiliary ductal system: a case report. Ogawa T, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):645-9 (13 ref.)

Cocaine-induced ischemic colitis with small-vessel thrombosis of colon and gallbladder. Boutros HH, et al. **J Clin Gastroenterol** 1997 Jan;24(1):49-53 (27 ref.)

Gallbladder varices: diagnosis in children with portal hypertension on duplex sonography. Rathi PM, et al. **J Clin Gastroenterol** 1996 Oct;23(3):228-31

Perforation of acalculous cholecystitis associated with localized atherosclerosis: report of a case. Aihara N, et al. **Surg Today** 1997;27(4):357-9

[Evaluation of gallbladder wall blood flow using color Doppler ultrasonography] Miyazaki E, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:190-3 (7 ref.) **(Jpn)**

CHEMISTRY

CCK-X receptors in the endothermic mako shark (Isurus oxyrinchus). Oliver AS, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):61-73

Two-dimensional electrophoretic analysis of vesicular and micellar proteins of gallbladder bile. He C, et al. **J Chromatogr A** 1997 Jul 25;776(1):109-15

[Free fatty acids in gallbladder bile] Wang W, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):659-61 (Eng. Abstr.) **(Chi)**

CYTOLOGY

A mini organ culture as a model for studying the gallbladder epithelium of mouse. Veranič P, et al. **Biol Cell** 1996; 88(3):145-51

Isolation and long-term culture of gallbladder epithelial cells from wild-type and CF mice. Kuver R, et al. **In Vitro Cell Dev Biol Anim** 1997 Feb;33(2):104-9

The movement of mucosal cells of the gallbladder within the peritoneal cavity during laparoscopic cholecystectomy. Doudle M, et al. **Surg Endosc** 1996 Nov;10(11):1092-4

DRUG EFFECTS

Effects of cholecystokinine on the gallbladder motility: interaction with somatostatin and vasoactive intestinal peptide. Milenov K, et al. **Acta Physiol Pharmacol Bulg** 1995;21(3):67-76

L-arginine reverses indomethacin-induced inhibition of inflammatory fluid secretion of the feline gall bladder. Nilsson B, et al. **Acta Physiol Scand** 1997 Jun;160(2):195-6

VIP-antiserum and indomethacin inhibit calcium and bicarbonate secretion by the inflamed feline gallbladder mucosa. Nilsson B, et al. **Acta Physiol Scand** 1996 Oct; 158(2):203-9

Effect of erythromycin on human biliary motility. Wehrmann T, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):421-6

Chemical ablation of the gallbladder. Majeed AW, et al. **Br J Surg** 1997 May;84(5):638-41

Effect of exogenous cholecystokinin on the discharge of the gallbladder and the secretion of trypsin and chymotrypsin from the pancreas of the Atlantic salmon, Salmo salar L. Einarsson S, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):63-7

Characterization of des-Arg9-bradykinin-induced contraction in guinea-pig gallbladder in vitro. Cabrini DA, et al. **Eur J Pharmacol** 1997 Jul 16;331(1):31-8

Inhibitory effect of bile salts on gallbladder smooth muscle contractility in the guinea pig in vitro. Xu QW, et al. **Gastroenterology** 1997 May;112(5):1699-706

Gallbladder contraction induced by intravenous erythromycin administration. Relation to body mass index. Kakkos SK, et al. **Hepatogastroenterology** 1996 Nov-Dec; 43(12):1540-3

Inhibition of pancreaticobiliary secretion by loperamide in humans. Thimister PW, et al. **Hepatology** 1997 Aug; 26(2):256-61

Effect of bile salts on in vitro gallbladder motility: preliminary study. Stolk MF, et al. **Ital J Gastroenterol** 1996 Feb-Mar;28(2):105-10

Effect of peripherally and centrally administered calcitonin

on gallbladder emptying in dogs. Jonderko K, et al. **J Gastroenterol** 1997 Jun;32(3):380–8

Effect of gastrin–releasing peptide (GRP) on guinea pig gallbladder contraction in vitro. Liu F, et al. **J Gastroenterol** 1995 Dec;30(6):764–7

Effect of oral protease inhibitor administration on gallbladder motility in patients with mild chronic pancreatitis. Sugiyama M, et al. **J Gastroenterol** 1997 Jun;32(3):374–9

In vitro effects of cholecystokinin fragments on human gallbladders. Evidence for an altered CCK–receptor structure in a subgroup of patients with gallstones. Schneider H, et al. **J Hepatol** 1997 May;26(5):1063–8

Extracellular Ca2+–dependent contractile action of phorbol 12,13–dibutyrate on gall bladder from guinea pig. Masui H, et al. **Life Sci** 1997;60(21):PL 311–6

Reestablishment of rabbit gallbladder epithelial cells in collagen gel culture and their alterations by cytochalasin B and transforming growth factor beta–1. A morphologic study. Yoshida K, et al. **Pathol Res Pract** 1996 Jun; 192(6):634–45

The prokinetic effect of domperidone in gallbladder––not upon dopaminergic receptors. Tankurt E, et al. **Pharmacol Res** 1996 Sep–Oct;34(3–4):153–6

[Contractile effect of erythromycin on the gallbladder] Fu D, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec; 33(12):757–9 (Eng. Abstr.) **(Chi)**

[Motility of the gastric antrum and the gallbladder following oral administration of sulfate–bicarbonate] Grossi F, et al. **Clin Ter** 1996 Jun;147(6):321–6 (Eng. Abstr.) **(Ita)**

EMBRYOLOGY

Sludge in fetal gallbladder: natural history and neonatal outcome. Petrikovsky B, et al. **Br J Radiol** 1996 Nov; 69(827):1017–8

ENZYMOLOGY

Membrane–bound carbonic anhydrase IV is expressed in the luminal plasma membrane of the human gallbladder epithelium. Parkkila S, et al. **Hepatology** 1996 Nov; 24(5):1104–8

Lysosomal enzyme activities in gallbladder mucosa of gallstone–free subjects and patients with gallstones. Sahlin S, et al. **J Hepatol** 1996 Dec;25(6):895–9

IMMUNOLOGY

Inflammatory cytokines stimulate human biliary epithelial cells to express interleukin–8 and monocyte chemotactic protein–1. Morland CM, et al. **Biochem Soc Trans** 1997 May;25(2):232S

Cultured human biliary epithelial cells induce allogeneic lymphocyte activation in vitro: possible relevance in liver transplant rejection. Scholz M, et al. **Immunol Lett** 1997 Jan;55(1):27–34

INJURIES

Haemorrhagic hydrops of the gallbladder. Ray PD, et al. **Injury** 1997 Mar;28(2):143–5

Perforation of the gall bladder in a patient on continuous ambulatory peritoneal dialysis. Geddes CC, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2493–4

Gallbladder pseudopolyp formation following percutaneous liver biopsy. Barzilai M, et al. **Pediatr Surg Int** 1997 Jul; 12(5–6):422–3

Imaging and interventional radiology in laparoscopic injuries to the gallbladder and biliary system. Slanetz PJ, et al. **Radiology** 1996 Dec;201(3):595–603 (40 ref.)

Intraabdominal contamination after gallbladder perforation during laparoscopic cholecystectomy and its complications. Kimura T, et al. **Surg Endosc** 1996 Sep;10(9):888–91

[Injury of the extrahepatic bile ducts in multiple injuries] Michek J, et al. **Rozhl Chir** 1997 Feb;76(2):53–5 (Eng. Abstr.) **(Cze)**

INNERVATION

Actions of calcitonin gene–related peptide in guinea pig gallbladder ganglia. Gokin AP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G876–83

Neurogenic inflammation in cholecystitis. Prystowsky JB, et al. **Dig Dis Sci** 1997 Jul;42(7):1489–94

Nitric oxide synthase in neurons of the human gall–bladder and its colocalization with neuropeptides. Uemura S, et al. **J Gastroenterol Hepatol** 1997 Mar;12(3):257–65

[Nonadrenergic noncholinergic regulation of gallstone containing and gallstone free human gallbladders] Sänger P, et al. **Zentralbl Chir** 1997;122(5):418–24 (Eng. Abstr.) **(Ger)**

[Peptidergic nerve distribution in the gallbladder in cholelithiasis] Gonda T, et al. **J Smooth Muscle Res** 1995 Dec;31(6):515–8 **(Jpn)**

METABOLISM

Bidirectional transport of cholesterol between gallbladder epithelial cells and model bile. Hayashi A, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G410–4

CFTR expression and mucin secretion in cultured mouse gallbladder epithelial cells. Peters RH, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1074–83

Molecular cloning of a major human gall bladder mucin: complete C–terminal sequence and genomic organization of MUC5B. Keates AC, et al. **Biochem J** 1997 May 15;324 (Pt 1):295–303

'Pavlovian' food effect on the enterohepatic recirculation of piroxicam. Polli JE, et al. **Biopharm Drug Dispos** 1996 Oct; 17(7):635–41

Cholecystokinin receptors in human pancreas and gallbladder muscle: a comparative study [see comments] Tang C, et al. **Gastroenterology** 1996 Dec;111(6):1621–6. Comment in: Gastroenterology 1996 Dec;111(6):1767–70.

CCK–A– and CCK–B–like receptors in the gallbladder and stomach of the alligator (Alligator mississippiensis). Oliver AS, et al. **Gen Comp Endocrinol** 1997 Jan;105(1):91–101

Sympathetic and VIP–ergic control of calcium and bicarbonate transport in the feline gall bladder mucosa in vivo. Nilsson B, et al. **J Auton Nerv Syst** 1996 Aug 27; 60(1–2):49–55

Cell swelling activates the K+ conductance and inhibits the Cl– conductance of the basolateral membrane of cells from a leaky epithelium. Torres RJ, et al. **J Gen Physiol** 1997 Jan;109(1):61–72

NHE–3 isoform of the Na+/H+ exchanger in human gallbladder. Localization of specific mRNA by in situ hybridization. Silviani V, et al. **J Hepatol** 1997 Jun; 26(6):1281–6

Effect of cholestyramine on the formation of pigment gallstone in high carbohydrate diet–fed hamsters. Lee YC, et al. **J Korean Med Sci** 1996 Oct;11(5):397–401

Characterization of crystallization pathways during cholesterol precipitation from human gallbladder biles: identical pathways to corresponding model biles with three predominating sequences. Wang DQ, et al. **J Lipid Res** 1996 Dec;37(12):2539–49

Proliferating cell nuclear antigen expression in the gallbladder with pancreaticobiliary maljunction. Isozaki H, et al. **J Surg Oncol** 1997 May;65(1):46–9

Effect of terminal ileal transposition on gallbladder bile composition following proctocolectomy. Hotokezaka M, et al. **J Surg Res** 1996 Jul 15;64(1):6–12

Anomalies in hepatobiliary excretion of technetium–99m–MAG3 preparations. Chatterjee M, et al. **Nucl Med Biol** 1996 Oct;23(7):867–72

Increased cell proliferation and transforming growth factor–alpha (TGF alpha) in the gall–bladder epithelium of patients with pancreaticobiliary maljunction. Kaneko K, et al. **Pathol Int** 1996 Apr;46(4):253–60

Influence of endothelin ET(A) and ET(B) receptor antagonists on endothelin–induced contractions of the guinea pig isolated gall bladder. Cardozo AM, et al. **Regul Pept** 1997 Mar 12;69(1):15–23

Analysis of c–Ki–ras oncogene and p53 immunocytochemistry in the gallbladder mucosa of an experimental dog model of anomalous arrangement of the pancreaticobiliary ducts. Sasaki K, et al. **Tokushima J Exp Med** 1996 Dec;43(3–4):101–6

[Peptidergic nerve distribution in the gallbladder in cholelithiasis] Gonda T, et al. **J Smooth Muscle Res** 1995 Dec;31(6):515–8 **(Jpn)**

MICROBIOLOGY

Vibrio cholerae 01 isolated in the gallbladder of a patient presenting with cholecystitis. Asnis DS, et al. **Am J Gastroenterol** 1996 Oct;91(10):2241–2

Isolation of a novel Helicobacter species, Helicobacter cholecystus sp. nov., from the gallbladders of Syrian hamsters with cholangiofibrosis and centrilobular pancreatitis. Franklin CL, et al. **J Clin Microbiol** 1996 Dec; 34(12):2952–8

Gallbladder and biliary tract candidiasis. Diebel LN, et al. **Surgery** 1996 Oct;120(4):760–4; discussion 764–5

PARASITOLOGY

Eimeria schmidti n. sp. (Apicomplexa: Eimeriidae) from the sandy fringe–toed lizard (Acanthodactylus schmidti) in Saudi Arabia. Yousif MS, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):465–9

PATHOLOGY

Gallbladder perforation with contained empyema diagnosed by CT but missed by sonography and hepatobiliary scintigraphy [letter] Mocharla R, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):283–4

Human gallbladder pressure and volume: validation of a new direct method for measurements of gallbladder pressure in patients with acute cholecystitis. Borly L, et al. **Clin Physiol** 1996 Mar;16(2):145–56

Increased gall bladder volume in primary sclerosing cholangitis. van de Meeberg PC, et al. **Gut** 1996 Oct; 39(4):594–9

Prospective study of the detection of anomalous connections of pancreatobiliary ducts during routine medical examinations. Yamao K, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1238–45

Silymarin retards collagen accumulation in early and advanced biliary fibrosis secondary to complete bile duct obliteration in rats. Boigk G, et al. **Hepatology** 1997 Sep; 26(3):643–9

Isolation of a novel Helicobacter species, Helicobacter cholecystus sp. nov., from the gallbladders of Syrian hamsters with cholangiofibrosis and centrilobular pancreatitis. Franklin CL, et al. **J Clin Microbiol** 1996 Dec; 34(12):2952–8

Gall–bladder wall thickening in patients with liver cirrhosis. Wang TF, et al. **J Gastroenterol Hepatol** 1997 Jun; 12(6):445–9

Dynamic MRI of the gallbladder lesions: differentiation of benign from malignant. Yoshimitsu K, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):696–701

Expression of cripto in human gall bladder lesions. Fujii K, et al. **J Pathol** 1996 Oct;180(2):166–8

Cholesterol vesicles in areas of gastric metaplasia of gallbladder epithelium. Caselli M, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):251–3

Increased cell proliferation and transforming growth factor–alpha (TGF alpha) in the gall–bladder epithelium of patients with pancreaticobiliary maljunction. Kaneko K, et al. **Pathol Int** 1996 Apr;46(4):253–60

Cellular differentiation and development of pyloric mucosal metaplasia in the human gall–bladder. Shimizu M, et al. **Pathol Int** 1996 Apr;46(4):261–6

Gallbladder wall thickening in infectious mononucleosis: an ominous sign. O'Donovan N, et al. **Postgrad Med J** 1996 May;72(847):299–300

Acute cholecystitis. Does the clinical diagnosis correlate with the pathological diagnosis? Fitzgibbons RJ Jr, et al. **Surg Endosc** 1996 Dec;10(12):1180–4

MR imaging of the gallbladder. Kelekis NL, et al. **Top Magn Reson Imaging** 1996 Oct;8(5):312–20 (35 ref.)

Biliary complications in living donor liver transplantation. Cronin DC 2nd, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):419–20

[Tissue reaction characteristics during the formation of an experimental biliodigestive anastomosis] Tatarshaov MT, et al. **Klin Khir** 1996;(9):30–3 **(Rus)**

PHYSIOLOGY

Gallbladder opacification 12–24 h after angiography by CT examination: a multivariate analysis. Yamazaki H, et al. **Abdom Imaging** 1996 Nov–Dec;21(6):507–11

Molecular aspects of hepatobiliary transport. Müller M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1285–303 (241 ref.)

M1 muscarinic mechanisms regulate intestinal–phase gallbladder physiology in humans. Nelson DK, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G824–30

Dual effects of PACAP on guinea pig gallbladder muscle via PACAP–preferring and VIP/PACAP–preferring receptors. Parkman HP, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1433–8

Nitric oxide and gallbladder motility in prairie dogs. Salomons H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G770–8

Polarized expression of cAMP–activated chloride channels in isolated epithelial cells. Torres RJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1574–82

Membrane cholesterol alters gallbladder muscle contractility in prairie dogs. Yu P, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G56–61

The influence of chronic platinum electrode implantation upon the myoelectric activity and histology of the stomach, small intestine and gall–bladder in sheep. Romański KW, et al. **Arch Vet Pol** 1995;35(1–2):127–35

Reflex coronary vasoconstriction caused by gallbladder distension in anesthetized pigs. Vacca G, et al. **Circulation** 1996 Nov 1;94(9):2201–9

Electric field stimulation–induced guinea pig gallbladder contractions: role of calcium channels in acetylcholine release. Parkman HP, et al. **Dig Dis Sci** 1997 Sep; 42(9):1919–25

Gallbladder motility in response to sham feeding and cholecystokinin in lean and obese subjects. Masclee AA, et al. **Digestion** 1997;58(1):43–9

Do patients with systemic sclerosis have abnormal gallbladder function? Posthuma WF, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):675–7

Something in the way she moves: gallbladder motility and gallstones [editorial; comment] Duane WC. **Gastroenterology** 1996 Sep;111(3):823–5. Comment on: Gastroenterology 1996 Sep;111(3):765–71.

Does intrabiliary pressure predict basal sphincter of Oddi pressure? A study in patients with and without gallbladders. Kalloo AN, et al. **Gastrointest Endosc** 1996 Dec;44(6):696–9

Effect of the menstrual cycle on gallbladder fasting volume and postprandial emptying in nulliparous young females. Xynos E, et al. **Invest Radiol** 1997 Jun;32(6):330–4

Cell swelling activates the K+ conductance and inhibits the Cl– conductance of the basolateral membrane of cells from a leaky epithelium. Torres RJ, et al. **J Gen Physiol** 1997 Jan;109(1):61–72

Patterns of intermediate filaments, VLA integrins and HLA antigens in a new human biliary epithelial cell line sensitive to interferon–gamma. Rumin S, et al. **J Hepatol** 1997 Jun; 26(6):1287–99

Gallbladder motility change in late pregnancy and after delivery. Hahm JS, et al. **Korean J Intern Med** 1997 Jan; 12(1):16–20

Relationship between gallbladder bile concentration and motility in conscious dogs: role of cholecystokinin. Muramatsu S, et al. **Peptides** 1997;18(1):111–8

Effect of modulating voltage–dependent calcium channels on cholecystokinin and acetylcholine–induced contractions of the guinea pig gallbladder. Parkman HP, et al. **Regul Pept** 1996 May 7;63(1):31–7

Gallbladder motility after duodenum–preserving resection of the head of the pancreas. Eddes EH, et al.

Scand J Gastroenterol 1997 Sep;32(9):878–83

Endoscopic sphincterotomy and gallbladder functions [letter; comment] Sharma BC, et al. **Scand J Gastroenterol** 1997 Jan;32(1):95–6. Comment on: Scand J Gastroenterol 1996 Jun;31(6):612–5.

Exercise and gall bladder function. Utter A, et al. **Sports Med** 1997 Apr;23(4):218–27 (86 ref.)

Cyclic motor activity of the gallbladder maintained in a pylorus–preserving gastrectomy in dogs. Enjoji A, et al. **Surg Today** 1996;26(7):489–95

PHYSIOPATHOLOGY

Human gallbladder pressure and volume: validation of a new direct method for measurements of gallbladder pressure in patients with acute cholecystitis. Borly L, et al. **Clin Physiol** 1996 Mar;16(2):145–56

Gallbladder relaxation in patients with pigment and cholesterol stones. Chen Q, et al. **Gastroenterology** 1997 Sep;113(3):930–7

Sphincterotomy and the gall bladder—a slice of luck [comment] O'Donnell LJ. **Gut** 1996 Dec;39(96):885–6. Comment on: Gut 1996 Dec;39(96):856–9.

The presence of the gallbladder is associated with the severity of acute biliary pancreatitis. Räty S, et al. **Int J Pancreatol** 1997 Apr;21(2):145–8

Gallbladder motility and lithogenicity of bile in patients with choledocholithiasis after endoscopic sphincterotomy. Dhiman RK, et al. **J Hepatol** 1997 Jun;26(6):1300–5

Gallbladder motility and cholecystokinin secretion in chronic pancreatitis: relationship with exocrine pancreatic function. Gielkens HA, et al. **J Hepatol** 1997 Aug;27(2):306–12

Changes in the volume of evacuated bile associated with emesis in dogs. Furukawa N. **Jpn J Physiol** 1996 Apr; 46(2):177–81

Gallbladder motility in systemic sclerosis. Lock G, et al. **Rheumatol Int** 1996;16(2):61–5

Gallbladder function and recurrent stones of the biliary tract in patients after endoscopic sphincterotomy [see comments] Lai KH, et al. **Scand J Gastroenterol** 1996 Jun;31(6):612–5 . Comment in: Scand J Gastroenterol 1997 Jan;32(1):95–6.

[Gallbladder hypomotility in diabetic polyneuropathy] Várkonyi T, et al. **Orv Hetil** 1997 May 11;138(19):1177–82 (41 ref.) (Eng. Abstr.) **(Hun)**

[Echographic and ERCP–manometric study of gallbladder and Oddi's sphincter behavior in biliary colic in patients with cholelithiasis. Effects of cerulein] Pizzuto G, et al. **Minerva Chir** 1996 Dec;51(12):1145–9 (Eng. Abstr.) **(Ita)**

[Ultrasonographic assessment of gallbladder motility in obese subjects] Bonfissuto G, et al. **Recenti Prog Med** 1996 Jul–Aug;87(7–8):338–41 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY see CHOLECYSTOGRAPHY

RADIONUCLIDE IMAGING

Effectiveness of cholecystokinin–stimulated cholescintigraphy in the diagnosis and treatment of acalculous gallbladder disease. Mishkind MT, et al. **Am Surg** 1997 Sep;63(9):769–74

Precision of the gallbladder ejection fraction obtained with Tc–99m–pyridoxyl–5–methyl–tryptophan (99mTc–PMT) hepatobiliary scintigraphy as compared with the contraction ratio in three–dimensional computed tomography. Uchiyama K, et al. **Ann Nucl Med** 1997 May; 11(2):123–8

Gallbladder visualization on routine lung perfusion imaging. Arroyo AJ, et al. **Clin Nucl Med** 1997 Jan;22(1):42–5

Scintigraphic demonstration of a mobile gallbladder. Baylor RA, et al. **Clin Nucl Med** 1997 May;22(5):320–1

Somatostatin receptor imaging: fatty meal–induced clearance of gallbladder activity. Katz N, et al. **Clin Nucl Med** 1997 Jan;22(1):58–9

Gallbladder visualization at twenty–four hours with octreotide scintigraphy. Potential false–positive finding. Kipper MS, et al. **Clin Nucl Med** 1997 Apr;22(4):253–4

Gallbladder visualization on RBC scintigraphy. Vidal–Sicart S, et al. **Clin Nucl Med** 1996 Aug;21(8):660

The clinical significance of gall–bladder non–visualization in cholescintigraphy of patients with choledochal cysts. Kao PF, et al. **Eur J Nucl Med** 1996 Nov;23(11):1468–72

Variable bile retention on cholescintigraphy after morphine administration. Kim CK, et al. **Eur J Nucl Med** 1996 Nov; 23(11):1464–7

Morphine augmentation increases gallbladder visualization in patients pretreated with cholecystokinin [see comments] Chen CC, et al. **J Nucl Med** 1997 Apr;38(4):644–7. Comment in: J Nucl Med 1997 Apr;38(4):647–9.

Should the presence of other diseases exclude subjects as controls in studies of gallbladder response to cholecystokinin octapeptide (sincalide)? Scintigraphic results in patients with malignancies but no known gallbladder disease. Jacobson AF, et al. **Nucl Med Commun** 1996 Jun;17(6):514–9

Standardization of a technique for BrIDA cholescintigraphy. Patankar R, et al. **Nucl Med Commun** 1996 Aug;17(8):724–8

Cholescintigraphy in acute and chronic gallbladder dysfunction. Shelton DK, et al. **West J Med** 1996 Nov; 165(5):303

[The post–cholecystectomy syndrome. Evaluation of symptomatology using Tc–99m–HIDA sequential hepatic scintigraphy (cholescintigraphy)] Maturanza M, et al. **Minerva Chir** 1997 Mar;52(3):243–5 (Eng. Abstr.) **(Ita)**

[Gallbladder motor function studied by modified infusion cholescintigraphy method after gastric and duodenal surgery] Petrović M, et al. **Acta Chir Iugosl** 1995;42(1):21–7 (Eng. Abstr.) **(Scr)**

SECRETION

L–arginine reverses indomethacin–induced inhibition of inflammatory fluid secretion of the feline gall bladder. Nilsson B, et al. **Acta Physiol Scand** 1997 Jun;160(2):195–6

The gallbladder also secretes. Glickerman DJ, et al. **Dig Dis Sci** 1997 Mar;42(3):489–91 (10 ref.)

Regulation of mucin secretion in human gallbladder epithelial cells: predominant role of calcium and protein kinase C. Dray–Charier N, et al. **Gastroenterology** 1997 Mar; 112(3):978–90

Cystic fibrosis transmembrane conductance regulator mediates the cyclic adenosine monophosphate–induced fluid secretion but not the inhibition of resorption in mouse gallbladder epithelium. Peters RH, et al. **Hepatology** 1997 Feb;25(2):270–7

Characteristics of gallbladder bile of infants and children. Halpern Z, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug; 23(2):147–50

SURGERY

Cholecystojejunostomy varices demonstrated by enteroclysis. Miller JT Jr, et al. **Abdom Imaging** 1997 Sep–Oct; 22(5):474–6

Cholecystoappendicostomy in a child with Alagille syndrome. Gauderer MW, et al. **J Pediatr Surg** 1997 Feb; 32(2):166–7

Experimental use of a pedicle gallbladder graft for the repair of large duodenal defects. Katsikogiannis N, et al. **Pathologica** 1997 Feb;89(1):54–8

Long–term results after laparoscopic cholecystotomy in a child with symptomatic gallstone disease. Ure BM, et al. **Surg Endosc** 1997 Jun;11(6):671–2

Simplified gall bladder cannulation in cattle. McEvoy JD. **Vet Rec** 1997 Jul 19;141(3):76–7

Changes in gallbladder surgery: comparative study 4 years before and 4 years after laparoscopic cholecystectomy. Cervantes J, et al. **World J Surg** 1997 Feb;21(2):201–4

[Advantages of compression biliodigestive anastomoses (an experimental–morphological study)] Tatarshaov MKh, et al. **Klin Khir** 1996;(5):36–8 **(Rus)**

ULTRASONOGRAPHY

Sonomorphology of the gallbladder in critically ill patients. Value of a scoring system and follow–up examinations. Helbich TH, et al. **Acta Radiol** 1997 Jan;38(1):129–34

Gallbladder motility in diabetes mellitus using real time ultrasonography. Hahm JS, et al. **Am J Gastroenterol** 1996 Nov;91(11):2391–4

Gallstones in chronic spinal cord injury: is impaired gallbladder emptying a risk factor? Ketover SR, et al. **Arch Phys Med Rehabil** 1996 Nov;77(11):1136–8

Sludge in fetal gallbladder: natural history and neonatal outcome. Petrikovsky B, et al. **Br J Radiol** 1996 Nov; 69(827):1017–8

Cholecystosonographic evaluation of the prevalence of gallbladder diseases. A university hospital experience. Pandey M, et al. **Clin Imaging** 1996 Oct–Dec;20(4):269–72

Prospective study of the detection of anomalous connections of pancreatobiliary ducts during routine medical examinations. Yamao K, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1238–45

Ultrasound demonstration of gallbladder wall thickening as a method to differentiate cirrhotic ascites from other ascites [see comments] Brogna A, et al. **Invest Radiol** 1996 Feb; 31(2):80–3. Comment in: Invest Radiol 1996 Sep;31(9):599.

Ultrasound demonstration of gallbladder wall thickening as a method to differentiate cirrhotic ascites from other ascites [letter; comment] Marti–Bonmati L. **Invest Radiol** 1996 Sep; 31(9):599. Comment on: Invest Radiol 1996 Feb;31(2):80–3.

Ultrasonic evaluation of gallbladder emptying with ceruletide. Muraca M, et al. **Ital J Gastroenterol** 1996 Jan; 28(1):38–9

Evaluation of gallbladder volume and emptying with a novel three–dimensional ultrasound system: comparison with the sum–of–cylinders and the ellipsoid methods. Pauletzki J, et al. **J Clin Ultrasound** 1996 Jul–Aug;24(6):277–85

Simultaneous assessment of gallbladder emptying in the dog by real–time ultrasonography and strain gauge. Jonderko K, et al. **J Gastroenterol** 1997 Apr;32(2):222–9

Spontaneously reversible extensive portal vein thrombosis after gallbladder puncture during transjugular liver biopsy. Spahr L, et al. **J Hepatol** 1996 Feb;24(2):246–8

Gallbladder contraction capacity in response to liquid fatty meal: a real time ultrasonographic study. Mutirangura P, et al. **J Med Assoc Thai** 1996 Oct;79(10):640–7

A quadriplegic patient's cholescintigraphic findings: delayed gallbladder visualization and common bile duct dilation. Shih WJ, et al. **J Natl Med Assoc** 1996 Feb;88(2):113–4

Involvement of the gallbladder in childhood metachromatic leukodystrophy: ultrasonographic findings. Kim TS, et al. **J Ultrasound Med** 1996 Dec;15(12):821–5

Reproducibility of the ultrasound method for measurement of gallbladder volume. Damião AO, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):151–3

Variability of gallbladder emptying after oral stimulation. Schiedermaier P, et al. **Scand J Gastroenterol** 1997 Jul; 32(7):719–24

Correlation among ultrasonographic and videoscopic findings of the gallbladder: surgical difficulties and reasons for conversion during laparoscopic surgery. Braghetto I, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):310–5

Echogenic material in the fetal gallbladder and fetal disease. Kiserud T, et al. **Ultrasound Obstet Gynecol** 1997 Aug; 10(2):103–6

[Echographic and ERCP–manometric study of gallbladder and Oddi's sphincter behavior in biliary colic in patients with cholelithiasis. Effects of cerulein] Pizzuto G, et al. **Minerva Chir** 1996 Dec;51(12):1145–9 (Eng. Abstr.) **(Ita)**

[Ultrasonographic assessment of gallbladder motility in obese subjects] Bonfissuto G, et al. **Recenti Prog Med** 1996 Jul–Aug;87(7–8):338–41 (Eng. Abstr.) **(Ita)**

[Evaluation of gallbladder wall blood flow using color Doppler ultrasonography] Miyazaki E, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:190–3 (7 ref.) **(Jpn)**

[Ultrasound diagnosis: current opportunities in diagnosis of gallbladder pathology] Lemeshko ZA. **Klin Med (Mosk)** 1997;75(5):18–20 (0 ref.) **(Rus)**

[Drug effects on gallbladder motility (based on dynamic ultrasonic data)] Geller LI, et al. **Ter Arkh** 1993;65(2):46–9 (Eng. Abstr.) **(Rus)**

[The value of echotomographic measurement of gallbladder volume in the evaluation of its contractility] Saranović–Vujnović V, et al. **Vojnosanit Pregl** 1997 Mar–Apr;54(2):125–8 (Eng. Abstr.) **(Scr)**

ULTRASTRUCTURE

Cholesterol vesicles in areas of gastric metaplasia of gallbladder epithelium. Caselli M, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):251–3

The ultrastructural study on epithelium of gallbladder with gallstones. Lee KT, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jan; 12(1):7–11

Reestablishment of rabbit gallbladder epithelial cells in collagen gel culture and their alterations by cytochalasin B and transforming growth factor beta–1. A morphologic study. Yoshida K, et al. **Pathol Res Pract** 1996 Jun; 192(6):634–45

GALLBLADDER DISEASES

Biliary ascariasis: a worm in the bag. Nyugen H, et al. **Aust N Z J Surg** 1997 Aug;67(8):574–5

Aberrant pancreas in the gallbladder wall. Kondi–Paphiti A, et al. **Eur Radiol** 1997;7(7):1064–6 (14 ref.)

Gallbladder polyps in children: a rare condition. Barzilai M, et al. **Pediatr Radiol** 1997 Jan;27(1):54–6

[Cholecystosis: anatomo–clinical profile and therapeutic considerations] Giacinti I, et al. **G Chir** 1997 Apr; 18(4):229–31 (Eng. Abstr.) **(Ita)**

[Mirizzi's syndrome] Siragusa G, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):97–102 (22 ref.) (Eng. Abstr.) **(Ita)**

[Cholesterosis of gallbladder: clinical, diagnostic and therapeutic aspects] Ivanchenkova RA, et al. **Klin Med (Mosk)** 1997;75(5):46–51 **(Rus)**

CHEMICALLY INDUCED

Lipidosis induced in the dog gallbladder by a direct 5–lipoxygenase inhibitor. Molon–Noblot S, et al. **Toxicol Pathol** 1996 Mar–Apr;24(2):231–7

COMPLICATIONS

Cholecystogastrocolonic fistula with intrahepatic abscess: a rare complication of biliary stone disease. Hakim M, et al. **Am Surg** 1997 Jun;63(6):472–4

[Generalized gas gangrene infection with rhabdomyolysis following cholecystectomy] Haerty W, et al. **Anaesthesist** 1997 Mar;46(3):207–10 (Eng. Abstr.) **(Ger)**

[Gallbladder hypomotility in diabetic polyneuropathy] Várkonyi T, et al. **Orv Hetil** 1997 May 11;138(19):1177–82 (41 ref.) (Eng. Abstr.) **(Hun)**

[A case of porcelain gallbladder with xanthogranulomatous cholecystitis masquerading as gallbladder cancer] Ohmi H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May; 94(5):381–5 **(Jpn)**

DIAGNOSIS

Imaging findings of pancreaticobiliary duct diseases with single–shot MR cholangiopancreatography. Reuther G, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):453–9

Imaging of gallbladder and biliary tract before laparoscopic cholecystectomy: comparison of intravenous cholangiography and the combined use of HASTE and single–shot RARE MR imaging. Vanbeckevoort D, et al. **J Belge Radiol** 1997 Feb;80(1):6–8

Gallbladder perforation with cholecystoantral fistula. Yang CC, et al. **J Clin Ultrasound** 1996 Nov–Dec;24(9):536–9

Multiseptate gallbladder: biliary manometry and scintigraphy. Saimura M, et al. **J Gastroenterol** 1996 Feb; 31(1):133–6

Dynamic MRI of the gallbladder lesions: differentiation of benign from malignant. Yoshimitsu K, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):696–701

Index of Suspicion. Case 3.Gallbladder diseases. Rivera JA. **Pediatr Rev** 1996 Nov;17(11):405, 407

GALLBLADDER DISEASES

Gallbladder pseudopolyp formation following percutaneous liver biopsy. Barzilai M, et al. **Pediatr Surg Int** 1997 Jul; 12(5–6):422–3

Laparoscopic diagnosis of gallbladder agenesis. Singh B, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):129–32 (30 ref.)

Idiopathic perforation of the gallbladder: report of a case and a review of the Japanese literature. Tanaka M, et al. **Surg Today** 1997;27(4):360–3 (12 ref.)

MR imaging of the gallbladder. Kelekis NL, et al. **Top Magn Reson Imaging** 1996 Oct;8(5):312–20 (35 ref.)

[Dieulafoy disease of the gallbladder: first case? (letter)] Paraf F. **Gastroenterol Clin Biol** 1996;20(8–9):712 **(Fre)**

[MR–Cholangiopancreatography as a single–shot projection: techniques and results of 200 examinations] Reuther G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):535–43 (Eng. Abstr.) **(Ger)**

[A case of biliobiliary fistula diagnosed by percutaneous transhepatic cholangioscopy] Toyokawa T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):366–70 **(Jpn)**

[The diagnosis and treatment of Mirizzi's syndrome] Radnaev VU, et al. **Vestn Khir Im I I Grek** 1996;155(2):103–4 **(Rus)**

DRUG THERAPY

[New gastroenterological prospects of ursodeoxycholic acid] Sheptulin AA. **Klin Med (Mosk)** 1996;74(4):8–10 (38 ref.) **(Rus)**

EPIDEMIOLOGY

Gallstones and gallbladder disorder after gastrectomy for gastric cancer. Kodama I, et al. **Int Surg** 1996 Jan–Mar; 81(1):36–9

Prevalence of polypoid lesions of the gallbladder in urban and rural areas of Japan: comparison between 1988 and 1993. Hayashi Y, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):158–9

[Diverticula and pseudodiverticula of the gallbladder in chronic calculous cholecystitis] Sirakov M, et al. **Khirurgiia (Sofiia)** 1996;49(5):35–6 (Eng. Abstr.) **(Bul)**

ETIOLOGY

Spontaneous gallbladder perforation without acute inflammation or gallstones. Nomura T, et al. **Am J Gastroenterol** 1997 May;92(5):895

Case of the month: a curious cause of a paediatric abdominal mass. Howlett DC, et al. **Br J Radiol** 1996 Nov; 69(827):1075–6

Necrotizing granulomatous vasculitis of transverse colon and gallbladder. Ohwada S, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1090–4

Haemorrhagic hydrops of the gallbladder. Ray PD, et al. **Injury** 1997 Mar;28(2):143–5

Saint's triade presenting as volvulus of the gallbladder. McAleese P, et al. **J Laparoendosc Surg** 1996 Dec; 6(6):421–5 (32 ref.)

Posttraumatic gallbladder torsion in a child. Salman AB, et al. **J Pediatr Surg** 1996 Nov;31(11):1586

Spontaneous perforation of the gallbladder from cholecystitis with acute appendicitis in pregnancy. A case report. Grimes DA. **J Reprod Med** 1996 Jun;41(6):450–2

[Spontaneous bilio–digestive fistulas of lithiasis origin: our experience] Cacopardo E, et al. **G Chir** 1996 Jun–Jul; 17(6–7):323–7 (Eng. Abstr.) **(Ita)**

[A case of Sjögren's syndrome and systemic lupus erythematosus complicated with necrotizing angiitis of the gallbladder] Suwa A, et al. **Ryumachi** 1995 Dec;35(6):904–9 (19 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

DNA ploidy and S–phase fraction of neoplastic and non–neoplastic lesions of the human gallbladder. Yoshida T, et al. **J Surg Oncol** 1996 Sep;63(1):9–16

METABOLISM

Randomized comparison of the neuroendocrine response to laparoscopic cholecystectomy using either conventional or abdominal wall lift techniques [see comments] Koivusalo AM, et al. **Br J Surg** 1996 Nov;83(11):1532–6. Comment in: Br J Surg 1997 Mar;84(3):426–7.

PATHOLOGY

Pancreatic heterotopia in gall bladder. Jan GM, et al. **Indian J Pathol Microbiol** 1995 Apr;38(2):203–4

RADIOGRAPHY

Images in clinical medicine. Cholecystoduodenal fistula. Singh N, et al. **N Engl J Med** 1997 Jan 23;336(4):266

Gallbladder disease: appearance of associated transient increased attenuation in the liver at biphasic, contrast–enhanced dynamic CT. Ito K, et al. **Radiology** 1997 Sep;204(3):723–8

Clinical implication of preoperative oral cholecystogram for laparoscopic cholecystectomy. Kim JG, et al. **Surg Endosc** 1996 Feb;10(2):137–42

RADIONUCLIDE IMAGING

Preoperative diagnosis of gallbladder perforation by cholescintigraphy. Albu E, et al. **Am Surg** 1996 Dec; 62(12):1066–7

SURGERY

Cholecystectomy following the introduction of laparoscopy: more, but for the same indication. Safran DB, et al. **Am Surg** 1997 Jun;63(6):506–11

Pulmonary function after laparoscopic cholecystectomy in the elderly [see comments] Milheiro A, et al. **Br J Surg** 1996 Aug;83(8):1059–61. Comment in: Br J Surg 1996 Dec;83(12):1795–6. Comment in: Br J Surg 1997 Apr;84(4):579.

Laparoscopic cholecystectomy is a safe procedure for the treatment of porcelain gallbladder. Tomioka T, et al. **Endoscopy** 1997 Mar;29(3):225

Laparoscopic sonography: a real alternative to cholangiography during laparoscopic cholecystectomy? Goletti O, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):612–8

Open common bile duct exploration––end of an epoch? O'Sullivan ST, et al. **Ir J Med Sci** 1996 Jan–Mar; 165(1):32–4

Trends in management of gallbladder disorders in children. Lugo–Vicente HL. **Pediatr Surg Int** 1997 Jul; 12(5–6):348–52

Clinical implication of preoperative oral cholecystogram for laparoscopic cholecystectomy. Kim JG, et al. **Surg Endosc** 1996 Feb;10(2):137–42

[The importance of pre–operative ultrasonography in assessing the technical difficulty and potential complications of laparoscopic cholecystectomy] Matranga S, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):225–8 (Eng. Abstr.) **(Ita)**

[Cholecysto–colic fistula: laparoscopic treatment] Pianalto S, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):231–3; discussion 233–4 (Eng. Abstr.) **(Ita)**

ULTRASONOGRAPHY

Cholecystosonographic evaluation of the prevalence of gallbladder diseases. A university hospital experience. Pandey M, et al. **Clin Imaging** 1996 Oct–Dec;20(4):269–72

Laparoscopic sonography: a real alternative to cholangiography during laparoscopic cholecystectomy? Goletti O, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):612–8

Differential diagnosis of gall–bladder masses using colour Doppler ultrasonography. Hirooka Y, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):840–6

Epithelial cyst of the gallbladder demonstrated by ultrasonography: case report. Kakitsubata Y, et al. **Radiat Med** 1995 Nov–Dec;13(6):309–10

Echogenic material in the fetal gallbladder and fetal disease. Kiserud T, et al. **Ultrasound Obstet Gynecol** 1997 Aug; 10(2):103–6

[The importance of pre–operative ultrasonography in assessing the technical difficulty and potential complications of laparoscopic cholecystectomy] Matranga S, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):225–8 (Eng. Abstr.) **(Ita)**

[Ultrasonography of the gallbladder II] Stoopen ME, et al. **Gac Med Mex** 1995 Jul–Aug;131(4):477 **(Spa)**

VETERINARY

Hepatobiliary scintigraphy in the evaluation of feline liver disease. Newell SM, et al. **J Vet Intern Med** 1996 Sep–Oct; 10(5):308–15

GALLBLADDER EMPTYING

Precision of the gallbladder ejection fraction obtained with Tc–99m–pyridoxyl–5–methyl–tryptophan (99mTc–PMT) hepatobiliary scintigraphy as compared with the contraction ratio in three–dimensional computed tomography. Uchiyama K, et al. **Ann Nucl Med** 1997 May; 11(2):123–8

Effects of colectomy on gallbladder motility in patients with ulcerative colitis. Damião AO, et al. **Dig Dis Sci** 1997 Feb; 42(2):259–64

Gallbladder motility in response to sham feeding and cholecystokinin in lean and obese subjects. Masclee AA, et al. **Digestion** 1997;58(1):43–9

Biliary dyskinesia in idiopathic slow–transit constipation. Hemingway D, et al. **Dis Colon Rectum** 1996 Nov; 39(11):1303–7

Something in the way she moves: gallbladder motility and gallstones [editorial; comment] Duane WC. **Gastroenterology** 1996 Sep;111(3):823–5. Comment on: Gastroenterology 1996 Sep;111(3):765–71.

Gallbladder emptying and gallstone formation: a prospective study on gallstone recurrence [see comments] Pauletzki J, et al. **Gastroenterology** 1996 Sep;111(3):765–71. Comment in: Gastroenterology 1996 Sep;111(3):823–5.

Sphincterotomy and the gall bladder––a slice of luck [comment] O'Donnell LJ. **Gut** 1996 Dec;39(96):885–6. Comment on: Gut 1996 Dec;39(96):856–9.

Longterm effects of endoscopic sphincterotomy on gall bladder motility [see comments] Sugiyama M, et al. **Gut** 1996 Dec;39(96):856–9. Comment in: Gut 1996 Dec;39(96):885–6.

The effects of acute exercise on gallbladder function in an adult female population. Utter AC, et al. **Med Sci Sports Exerc** 1996 Mar;28(3):280–4

Standardization of a technique for BrIDA cholescintigraphy. **Patankar R, et al. Nucl Med Commun** 1996 Aug;17(8):724–8

[Effects of changes of plasma motilin level on the motility of gallbladder in patients with chronic renal failure] Wang X, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Feb;35(2):86–8 (Eng. Abstr.) **(Chi)**

[The interdigestive motility of the gallbladder in patients with gastric and duodenal peptic ulcer] Reshetilov IuI, et al. **Lik Sprava** 1997 Jan–Feb;(1):42–4 (Eng. Abstr.) **(Rus)**

[The value of echotomographic measurement of gallbladder volume in the evaluation of its contractility] Saranović–Vujnović V, et al. **Vojnosanit Pregl** 1997 Mar–Apr;54(2):125–8 (Eng. Abstr.) **(Scr)**

DRUG EFFECTS

Effect of erythromycin on human biliary motility. Wehrmann T, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):421–6

Influence of orlistat on the regulation of gallbladder contraction in man: a randomized double–blind placebo–controlled crossover study. Froehlich F, et al. **Dig Dis Sci** 1996 Dec;41(12):2404–8

Ultrasonic evaluation of gallbladder emptying with ceruletide. Muraca M, et al. **Ital J Gastroenterol** 1996 Jan; 28(1):38–9

Tauroursodeoxycholic acid, ursodeoxycholic acid and gallbladder motility in gallstone patients and healthy subjects. Portincasa P, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):111–3

Effect of bile salts on in vitro gallbladder motility: preliminary study. Stolk MF, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):105–10

Effect of a cholecystokinin receptor antagonist (loxiglumide) on gallbladder contractile function in guinea pigs. Tsubo K, et al. **J Gastroenterol** 1996 Aug;31(4):578–81

Glibenclamide antagonizes the inhibitory effect of morphine on gall bladder emptying. Patil BM, et al. **J Pharm Pharmacol** 1996 Mar;48(3):320–2

[Contractile effect of erythromycin on the gallbladder] Fu D, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec; 33(12):757–9 (Eng. Abstr.) **(Chi)**

[Pharmacologic modification of postprandial bile duct kinetics––ultrasound measurement of the lumen of the bile duct] Heistermann HP, et al. **Ultraschall Med** 1997 Apr; 18(2):84–7 (Eng. Abstr.) **(Ger)**

[Drug effects on gallbladder motility (based on dynamic ultrasonic data)] Geller LI, et al. **Ter Arkh** 1993;65(2):46–9 (Eng. Abstr.) **(Rus)**

[Pharmacological modulation of the cholecystokinetic action of Naftusia water] Bul'ba AIa, et al. **Fiziol Zh** 1997; 43(1–2):122–8 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

Gallbladder motility in diabetes mellitus using real time ultrasonography. Hahm JS, et al. **Am J Gastroenterol** 1996 Nov;91(11):2391–4

Effect of gallbladder contraction induced cholagogia on the pharmacokinetic profile of a sustained–release theophylline formulation. Fuchs WS, et al. **Arzneimittelforschung** 1996 Dec;46(12):1120–6

Effect of endoscopic sphincterotomy on gallbladder motility. Agarwal DK, et al. **Dig Dis Sci** 1997 Jul;42(7):1495–500

Electric field stimulation–induced guinea pig gallbladder contractions: role of calcium channels in acetylcholine release. Parkman HP, et al. **Dig Dis Sci** 1997 Sep; 42(9):1919–25

Gastric and gall bladder emptying of a mixed meal are not coordinated in liver cirrhosis––a simultaneous sonographic study. Acalovschi M, et al. **Gut** 1997 Mar;40(3):412–7

No evidence for abnormal gallbladder emptying in Crohn's disease. Maurer P, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):807–12

The role of gallbladder emptying in gallstone formation during diet–induced rapid weight loss. Gebhard RL, et al. **Hepatology** 1996 Sep;24(3):544–8

Apolipoprotein E4 genotype and gallbladder motility influence speed of gallstone clearance and risk of recurrence after extracorporeal shock–wave lithotripsy. Portincasa P, et al. **Hepatology** 1996 Sep;24(3):580–7

Effect of the menstrual cycle on gallbladder fasting volume and postprandial emptying in nulliparous young females. Xynos E, et al. **Invest Radiol** 1997 Jun;32(6):330–4

Evaluation of gallbladder volume and emptying with a novel three–dimensional ultrasound system: comparison with the sum–of–cylinders and the ellipsoid methods. Pauletzki J, et al. **J Clin Ultrasound** 1996 Jul–Aug;24(6):277–85

Simultaneous assessment of gallbladder emptying in the dog by real–time ultrasonography and strain gauge. Jonderko K, et al. **J Gastroenterol** 1997 Apr;32(2):222–9

Effects of intravenous infusion of amino acids on cholecystokinin release and gallbladder contraction in humans. Shirohara H, et al. **J Gastroenterol** 1996 Aug; 31(4):572–7

Gallbladder contraction capacity in response to liquid fatty meal: a real time ultrasonographic study. Mutirangura P, et al. **J Med Assoc Thai** 1996 Oct;79(10):640–7

Gallbladder motility change in late pregnancy and after delivery. Hahm JS, et al. **Korean J Intern Med** 1997 Jan; 12(1):16–20

Gallbladder dyskinesia in acalculous biliary colic. Calabuig R, et al. **Rev Esp Enferm Dig** 1996 Nov;88(11):770–9 **(Eng, Spa)**

Gallbladder function and recurrent stones of the biliary tract in patients after endoscopic sphincterotomy [see comments] Lai KH, et al. **Scand J Gastroenterol** 1996 Jun;31(6):612–5 . Comment in: Scand J Gastroenterol 1997 Jan;32(1):95–6.

Variability of gallbladder emptying after oral stimulation. Schiedermaier P, et al. **Scand J Gastroenterol** 1997 Jul; 32(7):719–24

Gall bladder dysmotility in diabetes mellitus--an ultrasound study. Sharma MP, et al. **Trop Gastroenterol** 1995 Jul–Sep; 16(3):13–8

[Postprandial gallbladder function: not only unidirectional emptying?] Riepl RI. **Z Gastroenterol** 1997 Mar; 35(3):229–31 **(Ger)**

[Nonadrenergic noncholinergic regulation of gallstone containing and gallstone free human gallbladders] Sänger P, et al. **Zentralbl Chir** 1997;122(5):418–24 (Eng. Abstr.) **(Ger)**

[Ultrasonographic assessment of gallbladder motility in obese subjects] Bonfissuto G, et al. **Recenti Prog Med** 1996 Jul–Aug;87(7–8):338–41 (Eng. Abstr.) **(Ita)**

[Study of volume and kinetics of gallbladder emptying in non-pregnant, pregnant, and puerperal women] Valdivieso V, et al. **Rev Med Chil** 1996 Feb;124(2):198–203 (Eng. Abstr.) **(Spa)**

GALLBLADDER NEOPLASMS

Villous adenoma of the gallbladder: a case report. Nagahama M, et al. **Hepatogastroenterology** 1997 May–Jun; 44(15):681–4

[Metastatic implants after laparoscopic cholecystectomy in unsuspected gallbladder cancer. A case report and review of the literature] Younan A, et al. **J Med Liban** 1996; 44(3):161–4 (Eng. Abstr.) **(Fre)**

[Gallbladder adenocarcinoma in villous adenomatosis (papillomatosis) of the gallbladder and common bile duct] Kunisch M, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 May;166(5):454–6 **(Ger)**

[Gallbladder carcinoma today: light and shadow] Manenti A, et al. **Minerva Chir** 1996 Sep;51(9):631–4 (Eng. Abstr.) **(Ita)**

[Primary cancer of the gallbladder] Diaz JA, et al.
Rev Gastroenterol Peru 1996 May–Aug;16(2):142–7 (Eng. Abstr.) **(Spa)**

[Gallbladder cancer: a review] de Aretxabala X, et al.
Rev Med Chil 1996 Jun;124(6):732–9 (42 ref.) (Eng. Abstr.) **(Spa)**

CHEMISTRY

Clear cell carcinoma of the gallbladder. A histological and immunohistochemical study. Bittinger A, et al.
Pathol Res Pract 1995 Dec;191(12):1259–65; discussion 1266

Epidermal growth factor receptor immunoreactivity in gallbladder and extrahepatic biliary tract tumours. Lee CS, et al. **Pathol Res Pract** 1995 Nov;191(11):1087–91

COMPLICATIONS

Recurrent gallbladder carcinoma at laparoscopy port sites diagnosed by positron emission tomography: implications for primary and radical second operations. Lomis KD, et al. **Am Surg** 1997 Apr;63(4):341–5

Precut papillotomy using a needle knife: experience in 100 patients with malignant obstructive jaundice. Dhir V, et al. **Indian J Gastroenterol** 1997 Apr;16(2):52–3

Case report: multiple cancers: hepatocellular carcinoma and adenocarcinomas of the common bile duct and the gall-bladder in a woman with primary biliary cirrhosis. Imada J, et al. **J Gastroenterol Hepatol** 1996 Jun; 11(6):546–50

Carcinoma of the gall-bladder producing mucous obstruction of the common bile duct: a cautionary note. Hughes OD, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):280–2

Subacute pulmonary hypertension due to pulmonary tumor microembolism as a clinical manifestation of occult gallbladder adenocarcinoma. Ando H, et al. **Jpn Circ J** 1997 Jan;61(1):82–6

Leiomyomas of the gallbladder and splenic calcifications in an HIV-infected child. Tomà P, et al. **Pediatr Radiol** 1997 Jan;27(1):92–4

Papillomatosis of the gallbladder in metachromatic leukodystrophy. Oak S, et al. **Pediatr Surg Int** 1997 Jul; 12(5–6):424–5

High coincidence of Mirizzi syndrome and gallbladder carcinoma. Redaelli CA, et al. **Surgery** 1997 Jan; 121(1):58–63

Carcinoma gallbladder: atypical presentations and unusual associations. Haribhakti SP, et al. **Trop Gastroenterol** 1997 Jan–Mar;18(1):32–4

[Problems with gallbladder carcinoma in laparoscopic cholecystectomy] Manger T, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:596–9 (Eng. Abstr.) **(Ger)**

[A case of multiple cholesterol polyps of the gallbladder with intermittent jaundice of frequent occurrence] Matsui Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May; 94(5):376–80 **(Jpn)**

[A case of double choledochus with early gallbladder cancer] Ohta H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan; 94(1):62–7 (23 ref.) **(Jpn)**

[Kaposi's sarcoma of the bile ducts with cutaneous involvement in a patient with AIDS] Segarra P, et al.
Rev Esp Enferm Dig 1996 Sep;88(9):637–9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Carcinoma of the gallbladder: color Doppler ultrasound and CT findings. Wilbur AC, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):187–9

A case of traumatic neuroma of the gallbladder in the absence of previous surgery and cholelithiasis. Matsuoka J, et al. **Acta Med Okayama** 1996 Oct;50(5):273–7

Carcinoma of the gallbladder: imaging features with surgical correlation. Soyer P, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):781–5

Xanthogranulomatous cholecystitis versus gallbladder cancer: clinical differentiating factors. Yoshida J, et al.
Am Surg 1997 Apr;63(4):367–71

Endoscopic retrograde cholangiography in a metastatic melanoma of the gallbladder presenting as a gallstone migration. Abdelli N, et al. **Endoscopy** 1996 May;28(4):402

Laparoscopic cholecystectomy and gallbladder cancer: a diagnostic and therapeutic dilemma. Razzetta F, et al.
Eur J Surg Oncol 1997 Feb;23(1):84–5

Early carcinoma of the gallbladder diagnosed by percutaneous cholecystoscopy. MacGillivray DC, et al.
Gastrointest Endosc 1997 Feb;45(2):207–10 (25 ref.)

Dynamic MRI using a surface coil in chronic cholecystitis and gallbladder carcinoma: radiologic and histopathologic correlation. Demachi H, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):643–51

Dynamic MRI of the gallbladder lesions: differentiation of benign from malignant. Yoshimitsu K, et al.
J Magn Reson Imaging 1997 Jul–Aug;7(4):696–701

Paraneoplastic opsoclonus associated with cancer of the gall bladder [letter] Corcia P, et al.
J Neurol Neurosurg Psychiatry 1997 Mar;62(3):293

Natural history of gallbladder carcinoma: clinical and pathologic factors. Hidalgo Grau LA, et al.
Rev Esp Enferm Dig 1997 Mar;89(3):186–95 **(Eng, Spa)**

Gallbladder cancer discovered during laparoscopic cholecystectomy [letter; comment] Ishibashi T, et al.
Surg Laparosc Endosc 1996 Oct;6(5):417–8. Comment on: Surg Laparosc Endosc 1995 Feb;5(1):21–6. Comment on: Surg Laparosc Endosc 1995 Feb;5(1):80.

Unsuspected gallbladder cancer diagnosed by laparoscopic cholecystectomy: a clinicopathological study. Mori T, et al. **Surg Today** 1997;27(8):710–3

[Adenomyomatosis of the gallbladder] **Rontgenpraxis** 1996 Jan;49(1):14–5 **(Ger)**

[Adenoma of the gallbladder] Nüssle K, et al.
Rontgenpraxis 1996 Aug;49(8):213–4 **(Ger)**

[Malignant bile duct diseases and jaundice] Mukai H, et al.
Nippon Naika Gakkai Zasshi 1997 Apr 10;86(4):620–8 (5 ref.) **(Jpn)**

[A case of porcelain gallbladder with xanthogranulomatous cholecystitis masquerading as gallbladder cancer] Ohmi H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May; 94(5):381–5 **(Jpn)**

[Choledochal cyst in adults and cancer of the biliary tract] Târcoveanu E, et al. **Chirurgia (Bucur)** 1997 Mar–Apr; 92(2):121–8 (8 ref.) (Eng. Abstr.) **(Rum)**

[Clinical manifestations of cancer of the gallbladder] Shulutko AM, et al. **Khirurgiia (Mosk)** 1996;(2):20–1 (Eng. Abstr.) **(Rus)**

[Xanthogranulomatous cholecystitis simulating gallbladder neoplasm: therapeutic implications] Balagué C, et al.
Gastroenterol Hepatol 1996 Dec;19(10):503–6 (Eng. Abstr.) **(Spa)**

[CAA 19–9 and carcinoembryonic antigen in gallbladder cancer] de Aretxabala X, et al. **Rev Med Chil** 1996 Jan; 124(1):11–20 (Eng. Abstr.) **(Spa)**

[Gallbladder cancer: immunohistochemical expression of the protein related to estrogen receptor (p29) and of the protein induced by estrogen (pS2)] Roa I, et al. **Rev Med Chil** 1995 Nov;123(11):1333–40 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Treatment of advanced adenocarcinomas of the exocrine pancreas and the gallbladder with 5-fluorouracil, high dose levofolinic acid and oral hydroxyurea on a weekly schedule. Results of a multicenter study of the Southern Italy Oncology Group (G.O.I.M.). Gebbia V, et al.
Cancer 1996 Sep 15;78(6):1300–7

[Study of hepatic arterial chemoinfusion with continuous CDDP, 5-FU low dose administration for advanced gallbladder cancer] Fukuda S, et al.
Gan To Kagaku Ryoho 1996 Sep;23(11):1610–3 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Primary lymphoma of the gallbladder; case report and review of the literature. Chatila R, et al. **Am J Gastroenterol** 1996 Oct;91(10):2242–4 (14 ref.)

Lifestyle factors including diet and cancer of the gallbladder and bile duct: a population-based case-control study in The Netherlands. Moerman CJ, et al.
Eur J Cancer Prev 1997 Apr;6(2):139–42

Gallbladder cancer with a low junction of the cystic duct or an anomalous pancreaticobiliary junction. Uetsuji S, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1213–7

[Other factors in gallbladder cancer (letter; comment)] Martinez RL, et al. **Rev Med Chil** 1996 May;124(5):613–4 . Comment on: Rev Med Chil 1995 May;123(5):581–6. **(Spa)**

ETIOLOGY

Risk factors for gallbladder cancer. An international collaborative case-control study [letter; comment] Serra I, et al. **Cancer** 1996 Oct 1;78(7):1515–7. Comment on: Cancer 1995 Nov 15;76(10):1747–56.

Epidemiologic aspects of gallbladder cancer: a case-control study of the SEARCH Program of the International Agency for Research on Cancer. Zatonski WA, et al.
J Natl Cancer Inst 1997 Aug 6;89(15):1132–8

[Carcinoma of the gallbladder in anomalous pancreaticoliliary ductal junction] Chijiiwa K, et al.
Nippon Geka Gakkai Zasshi 1996 Aug;97(8):599–605 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Risk factors for gallbladder cancer in Chilean females] Endoh K, et al. **Nippon Koshu Eisei Zasshi** 1997 Feb; 44(2):113–22 (Eng. Abstr.) **(Jpn)**

[Adenocarcinoma arising from gallbladder fosa with duodenal involvement 14 years after cholecystectomy: a case report] Shimizu K, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Nov;93(11):857–61 **(Jpn)**

[Gallbladder cancer (letter)] Mundt E. **Rev Med Chil** 1995 Nov;123(11):1424 **(Spa)**

GENETICS

High frequency of p53 gene mutation in adenocarcinomas of the gallbladder. Fujii K, et al.
Cancer Epidemiol Biomarkers Prev 1996 Jun;5(6):461–6

DNA ploidy pattern and tumor suppressor gene p53 expression in gallbladder carcinoma. Roa I, et al.
Cancer Epidemiol Biomarkers Prev 1997 Jul;6(7):547–50

DNA ploidy and S-phase fraction of neoplastic and non-neoplastic lesions of the human gallbladder. Yoshida T, et al. **J Surg Oncol** 1996 Sep;63(1):9–16

APC, K-ras codon 12 mutations and p53 gene expression in carcinoma and adenoma of the gall-bladder suggest two genetic pathways in gall-bladder carcinogenesis. Itoi T, et al. **Pathol Int** 1996 May;46(5):333–40

Detection of ras oncogene point mutations and simultaneous proliferative fraction estimation in gallbladder cancer. Saetta A, et al. **Pathol Res Pract** 1996 Jun;192(6):532–40

[Squamous carcinoma of the gallbladder. Anatomo-clinical study of a case with reference to oncogene expression] Botto Micca F, et al. **Pathologica** 1997 Feb;89(1):77–80 (Eng. Abstr.) **(Ita)**

METABOLISM

Ras p21 protein immunoreactivity and its relationship to p53 expression and prognosis in gallbladder and extrahepatic biliary carcinoma. Lee CS. **Eur J Surg Oncol** 1997 Jun; 23(3):233–7

p53 protein expression and prognosis in gallbladder carcinoma and premalignant lesions. Ajiki T, et al.
Hepatogastroenterology 1996 May–Jun;43(9):521–6

Iron binding proteins in gallbladder carcinomas. An immunocytochemical investigation. Tuccari G, et al.
Histol Histopathol 1997 Jul;12(3):671–6

Endocrine cell carcinoma (carcinoid tumour) of the gallbladder producing pancreatic polypeptide and somatostatin [letter] Heymann MF, et al. **Histopathology** 1997 Jun;30(6):606–7

Expression of cripto in human gall bladder lesions. Fujii K, et al. **J Pathol** 1996 Oct;180(2):166–8

Proliferating cell nuclear antigen expression in the gallbladder with pancreaticobiliary maljunction. Isozaki H, et al. **J Surg Oncol** 1997 May;65(1):46–9

Differences in c-fos gene product expression in cancers of the gall-bladder and biliary tract. Lee CS. **Pathol Int** 1996 Oct;46(10):771–6

[Case of G-CSF producing gallbladder neoplasm] Nakajima Y, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10; 85(11):1931–3 **(Jpn)**

MICROBIOLOGY

Vibrio cholerae 01 isolated in the gallbladder of a patient presenting with cholecystitis. Asnis DS, et al.
Am J Gastroenterol 1996 Oct;91(10):2241–2

PATHOLOGY

Arteriovenous hemangioma of the gallbladder: CT and pathologic findings [letter] Furukawa H, et al.
AJR Am J Roentgenol 1997 May;168(5):1383

Increasing serum levels of alpha-fetoprotein in a patient with relapsing gallbladder carcinoma. Cocquyt V, et al.
Am J Clin Oncol 1996 Oct;19(5):465–8

Differences in cell proliferation and prognostic significance of proliferating cell nuclear antigen and Ki-67 antigen immunoreactivity in in situ and invasive carcinomas of the extrahepatic biliary tract. Lee CS. **Cancer** 1996 Nov 1; 78(9):1881–7

Spontaneous apoptosis in gallbladder carcinoma. Relationships with clinicopathologic factors, expression of E-cadherin, bcl-2 protooncogene, and p53 oncosuppressor gene. Sasatomi E, et al. **Cancer** 1996 Nov 15;78(10):2101–10

Lymph node spread from carcinoma of the gallbladder.

Tsukada K, et al. **Cancer** 1997 Aug 15;80(4):661–7

Adenomyomatosis of the gallbladder. Yang WG, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jul;58(1):12–7

Fine-needle aspiration of primary gallbladder carcinoma. Dodd LG, et al. **Diagn Cytopathol** 1996 Aug;15(2):151–6

Cytologic features of villous adenoma of the ampullary region. Veronezi-Gurwell A, et al. **Diagn Cytopathol** 1996 Mar;14(2):145–9

Diffuse expansive cavernous hemangioma of the gallbladder. Mayorga M, et al. **Gen Diagn Pathol** 1997 Feb; 142(3–4):211–5 (8 ref.)

Unsuspected carcinoma of the gall bladder: case report of trocar-site metastasis following laparoscopic cholecystectomy. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):990–3

Differentiation towards gastric foveolar, mucopeptic and intestinal goblet cells in gallbladder adenocarcinomas. Kushima R, et al. **Histopathology** 1996 Nov;29(5):443–8

Primary low grade malignant lymphoma of mucosa-associated lymphoid tissue of gallbladder. McCluggage WG, et al. **Histopathology** 1996 Sep; 29(3):285–7

Laparoscopic cholecystectomy: incidental carcinoma of the gallbladder with abdominal wall and axillary node metastasis. Johnson RC, et al. **HPB Surg** 1997;10(3):169–71

Carcinoma gallbladder presenting with skeletal metastases. Misra S, et al. **Indian J Gastroenterol** 1997 Apr;16(2):74

Carcinoid tumor of the gall bladder. Nishigami T, et al. **Intern Med** 1996 Dec;35(12):953–6

Evidence for the polyp-cancer sequence in gallbladder cancer. Harbison J, et al. **Ir Med J** 1997 Apr–May;90(3):98

Adenocarcinoma combined with malignant peripheral nerve sheath tumor of the gallbladder. Chang BC, et al. **J Formos Med Assoc** 1997 Jul;96(7):545–8

Double cancers of the gallbladder and bile duct associated with anomalous choledochopancreatic duct junction. Nakao A, et al. **J Gastroenterol** 1997 Feb;32(1):110–3 (12 ref.)

Alpha-fetoprotein, carcinoembryonic antigen, and carbohydrate antigen 19-9-producing gallbladder cancer. Ono T, et al. **J Gastroenterol** 1996 Oct;31(5):742–6 (14 ref.)

Tubular adenoma of the gall bladder. Logani KB, et al. **J Indian Med Assoc** 1995 Oct;93(10):402

Synchronous primary tumors of the extrahepatic bile duct and gallbladder. Kurosaki I, et al. **J Surg Oncol** 1997 Aug; 65(4):258–62

Reliability of frozen section diagnosis of gallbladder tumor for detecting carcinoma and depth of its invasion. Yamaguchi K, et al. **J Surg Oncol** 1997 Jun;65(2):132–6

Successful radical surgery for an undifferentiated gallbladder carcinoma with lymph node metastases to the mesocolon. Ota T, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):484–7

A clinical study of 130 patients with biliary tract cancers and periampullary tumors. Su WC, et al. **Oncology** 1996 Nov-Dec;53(6):488–93

A human gall-bladder signet ring cell carcinoma cell line. Nishida T, et al. **Pathol Int** 1997 Jun;47(6):368–76

p53 and Ki-67 immunoreactivity and nuclear morphometry of 'carcinoma-in-adenoma' and adenoma of the gall-bladder [corrected and republished article originally printed in Pathol Int 1996 Jun; 46(6):426–35] Takei K, et al. **Pathol Int** 1996 Nov;46(11):908–17

p53 and Ki-67 immunoreactivity and nuclear morphometry of 'carcinoma-in-adenoma' and adenoma of the gall-bladder [corrected and republished in Pathol Int 1996 Nov;46(11):908–17] Takei K, et al. **Pathol Int** 1996 Jun; 46(6):426–35

Clear cell carcinoma of the gallbladder. A histological and immunohistochemical study. Bittinger A, et al. **Pathol Res Pract** 1995 Dec;191(12):1259–65; discussion 1266

Pyloric gland type adenoma of the gallbladder with squamoid spindle cell metaplasia. Kushima R, et al. **Pathol Res Pract** 1996 Sep;192(9):963–9; discussion 970–1

Gallbladder carcinoma: a video image analysis of AgNOR distribution and its relation to tumour stage and grade. Muscara M, et al. **Pathol Res Pract** 1996 May;192(5):407–13

A case of secondary pulmonary hypertension due to microscopic pulmonary tumor cell embolism from gallbladder carcinoma. de Luis DA, et al. **Respiration** 1997; 64(3):244–6

Unusual malignant epithelial tumors of the gallbladder. Albores-Saavedra J, et al. **Semin Diagn Pathol** 1996 Nov; 13(4):326–38 (41 ref.)

Gallbladder cancer discovered incidentally after laparoscopic cholecystectomy: significance of depth of invasion [letter; comment] Shirai Y, et al. **Surg Laparosc Endosc** 1996 Oct; 6(5):418–9. Comment on: Surg Laparosc Endosc 1995 Feb;5(1):21–6. Comment on: Surg Laparosc Endosc 1995 Feb;5(1):80.

Prognostic factors and management of carcinomas of the gallbladder and extrahepatic bile ducts. Lee RG, et al. **Surg Oncol Clin N Am** 1997 Jul;6(3):639–59 (76 ref.)

Portsite and intraabdominal metastases of unsuspected gallbladder carcinoma after laparoscopic cholecystectomy: report of a case. Shibata N, et al. **Surg Today** 1996; 26(12):1014–6

Outcome of radical surgery for carcinoma of the gallbladder according to the TNM stage. Tsukada K, et al. **Surgery** 1996 Nov;120(5):816–21

Clinicopathologic differences between long-term and short-term postoperative survivors with advanced gallbladder carcinoma. Chijiiwa K, et al. **World J Surg** 1997 Jan;21(1):98–102

[Adenocarcinoma of the gallbladder associated with endocrine pancreatic tumor and disclosed by biliary tumor migration (letter)] Fouchard I, et al. **Gastroenterol Clin Biol** 1996;20(8–9):708–9 **(Fre)**

[Isolated ovarian metastasis of primary gallbladder carcinoma with estrogen and androgen production] Hamm W, et al. **Zentralbl Gynakol** 1996;118(12):676–8 (Eng. Abstr.) **(Ger)**

[An investigation of the mode of local spreading of biliary tract carcinoma to microvascular and neural structure] Takahashi M. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):449–62 (Eng. Abstr.) **(Jpn)**

[A clinico-pathological study of early gallbladder carcinoma] Okaniwa S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep;93(9):628–33 (Eng. Abstr.) **(Jpn)**

[A case of synchronous triple early cancer occurring in the stomach, colon and gallbladder] Yazawa K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jun;94(6):440–4 (12 ref.) **(Jpn)**

PREVENTION & CONTROL

Effects of selenium on gallbladder carcinogenesis induced by an intracholecystic 3-methylcholanthrene beeswax pellet in female Syrian golden hamsters. Nakadaira H, et al. **Cancer Lett** 1996 Sep 10;106(2):279–85

RADIOGRAPHY

Arteriovenous hemangioma of the gallbladder: CT and pathologic findings [letter] Furukawa H, et al. **AJR Am J Roentgenol** 1997 May;168(5):1383

Xanthogranulomatous cholecystitis: CT features with emphasis on differentiation from gallbladder carcinoma [see comments] Chun KA, et al. **Radiology** 1997 Apr; 203(1):93–7. Comment in: Radiology 1997 Apr;203(1):10–2.

Xanthogranulomatous cholecystitis versus gallbladder carcinoma [editorial; comment] Ros PR, et al. **Radiology** 1997 Apr;203(1):10–2. Comment on: Radiology 1997 Apr;203(1):93–7.

[Computerized tomography differentiation of hepatocellular carcinoma and cholangiocellular tumors] Zwicker C, et al. **Aktuelle Radiol** 1997 Mar;7(2):74–8 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

IORT combined with resection for stage IV gallbladder carcinoma. Todoroki T, et al. **Front Radiat Ther Oncol** 1997;31:165–72

Primary carcinoma of the gallbladder: role of external beam radiation therapy in patients with locally advanced tumor. Uno T, et al. **Strahlenther Onkol** 1996 Sep;172(9):496–500

SECONDARY

Acute cholecystitis from metastatic melanoma to the gall-bladder in a patient with a low-risk melanoma. Langley RG, et al. **Br J Dermatol** 1997 Feb;136(2):279–82 (25 ref.)

Endoscopic retrograde cholangiography in a metastatic melanoma of the gallbladder presenting as a gallstone migration. Abdelli N, et al. **Endoscopy** 1996 May;28(4):402

Acute cholecystitis or metastatic renal cell carcinoma? a diagnostic dilemma. Finkelstein LH, et al. **J Am Osteopath Assoc** 1996 May;96(5):314–5 (15 ref.)

Color Doppler ultrasonographic evaluation of renal cell carcinoma metastasis to the gallbladder. Lombardo FP, et al. **J Ultrasound Med** 1996 Oct;15(10):725–8

Gallbladder metastasis of renal cell carcinoma. A case report and review of the literature. Sparwasser C, et al. **Urol Int** 1997;58(4):257–8 (8 ref.)

[Isolated metastasis in the gallbladder from malignant cutaneous melanoma discovered by ultrasound] Bedő F, et al. **Orv Hetil** 1996 Jun 30;137(26):1427–8 (Eng. Abstr.) **(Hun)**

[Gallbladder metastasis from renal cell carcinoma--a report of a case] Uchiyama T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):68–72 (14 ref.) **(Jpn)**

SURGERY

Radical surgery is justified for locally advanced gallbladder carcinoma if complete resection is feasible [letter; comment] Shirai Y, et al. **Am J Gastroenterol** 1997 Jan;92(1):181–2. Comment on: Am J Gastroenterol 1995 Dec;90(12):2195–200.

Poor prognosis of gallbladder cancer persists regardless of improved diagnostic methods. Incidence and results of surgery during 20 years in Helsinki. Paimela H, et al. **Ann Chir Gynaecol** 1997;86(1):13–7

Long-term results after resection for gallbladder cancer. Implications for staging and management. Bartlett DL, et al. **Ann Surg** 1996 Nov;224(5):639–46 (34 ref.)

Influence of acute cholecystitis on surgical strategy and outcome of inapparent carcinoma of the gallbladder: a report on two cases. Mingoli A, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1235–7

Intrahepatic segment III cholangiojejunostomy in advanced carcinoma of the gallbladder. Kapoor VK, et al. **Br J Surg** 1996 Dec;83(12):1709–11

Retrospective analysis of 70 operations for gallbladder carcinoma. Yamaguchi K, et al. **Br J Surg** 1997 Feb; 84(2):200–4

The role of lymph node dissection in the treatment of gallbladder carcinoma. Shimada H, et al. **Cancer** 1997 Mar 1;79(5):892–9

Predictors of survival in patients with carcinoma of the gallbladder [letter; comment] Shirai Y, et al. **Cancer** 1997 Jan 1;79(1):185–6. Comment on: Cancer 1995 Oct 1;76(7):1145–9.

Curative resection in potentially resectable tumours of the gallbladder. de Aretxabala XA, et al. **Eur J Surg** 1997 Jun; 163(6):419–26

Recurrent melanoma of the leg and polypoid lesions of the gallbladder--a management dilemma. Gould SW, et al. **Eur J Surg Oncol** 1997 Aug;23(4):368–9

Umbilical port metastasis from gallbladder carcinoma after laparoscopic cholecystectomy. Karayiannakis AJ, et al. **Eur J Surg Oncol** 1997 Apr;23(2):186–7

Surgery for carcinoma of the gallbladder. Rückert JC, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):527–33

A case of gallbladder cancer with para-aortic lymph node metastasis who has survived more than seven years after the primary extended radical operation. Shinkai H, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1370–6

Pancreaticoduodenectomy for gallbladder cancer with peripancreatic nodal metastases. Shirai Y, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):376–7

Is there a role for radical surgery in advanced gallbladder carcinoma? Kemeny MM. **HPB Surg** 1997;10(5):335–8

Surgery gall-bladder cancer. Cubertafond P, et al. **Indian J Gastroenterol** 1996 Apr;15(2):77–8

Hepatopancreatoduodenectomy in advanced carcinoma gall bladder. Kumar R, et al. **Indian J Gastroenterol** 1996 Apr; 15(2):68–9

Superficial elevated-type early gallbladder carcinoma treated by laparoscopic cholecystectomy. Fujita N, et al. **J Gastroenterol** 1997 Aug;32(4):566–9

Trocar site seeding of inapparent gallbladder carcinoma during laparoscopic cholecystectomy. Cotlar AM, et al. **J Laparoendosc Surg** 1996 Feb;6(1):35–45 (53 ref.)

Successful radical surgery for an undifferentiated gallbladder carcinoma with lymph node metastases to the mesocolon. Ota T, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):484–7

Management of gallbladder polyps. Mangel AW. **South Med J** 1997 May;90(5):481–3 (14 ref.)

Is laparoscopic cholecystectomy indicated for early gallbladder cancer? [letter; comment] Shirai Y, et al. **Surgery** 1997 Jul;122(1):120–2. Comment on: Surgery 1995 May;117(5):481–7.

Outcome of radical surgery for carcinoma of the gallbladder according to the TNM stage. Tsukada K, et al. **Surgery** 1996 Nov;120(5):816–21

Extended cholecystectomy for carcinoma of the gall bladder. Kapoor VK, et al. **Trop Gastroenterol** 1995 Oct-Dec; 16(4):74–5

[Comment on the contribution by T. Hohaus, G. Hellmich, K. Ludwig, "Unexpected gallbladder carcinoma--a report of experiences after 1,200 laparoscopic cholecystectomies] Becker M. **Zentralbl Chir** 1997;122(6):514 **(Ger)**

[Incidental gallbladder carcinoma--a report of experiences after 1,200 laparoscopic cholecystectomies] Hohaus T, et al. **Zentralbl Chir** 1997;122(2):103–7 (Eng. Abstr.) **(Ger)**

[The role of surgery in the treatment of primary carcinoma of the gallbladder. Review of 86 cases] Cangemi V, et al. **G Chir** 1996 Aug-Sep;17(8–9):418–24 (41 ref.) (Eng. Abstr.) **(Ita)**

[Gallbladder carcinoma. Our experience] Gentilli S, et al. **Minerva Chir** 1996 Apr;51(4):183–6 (Eng. Abstr.) **(Ita)**

[Cancer of the gallbladder] Nardi M, et al. **Minerva Chir** 1997 May;52(5):583–7 (Eng. Abstr.) **(Ita)**

[Tumor disseminate in site following laparoscopic cholecystectomy] Shibata N, et al. **Nippon Geka Gakkai Zasshi** 1997 Apr;98(4):462–5 (25 ref.) **(Jpn)**

THERAPY

Lentinan potentiates immunity and prolongs the survival time of some patients. Matsuoka H, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2751–5

Laparoscopic cholecystectomy and gallbladder cancer: a diagnostic and therapeutic dilemma. Razzetta F, et al. **Eur J Surg Oncol** 1997 Feb;23(1):84–5

Treatment of T3 and T4 carcinomas of the gallbladder. Okamoto A, et al. **Int Surg** 1996 Apr-Jun;81(2):130–5

Gallbladder polyps: when to wait and when to act [published erratum appears in Lancet 1997 Apr 5;349(9057):1032] Boulton RA, et al. **Lancet** 1997 Mar 22;349(9055):817

[Palliative therapy of carcinomas of the biliary system] Lersch C, et al. **Med Klin** 1997 Jul 15;92(7):401–5 (52 ref.) (Eng. Abstr.) **(Ger)**

[A case of recurrent gallbladder cancer with marked response to arterial infusion chemotherapy and transarterial embolization] Yokoyama M, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):97–9 (Eng. Abstr.) **(Jpn)**

[Multidisciplinary treatment of obstructive jaundice in malignant diseases] Ryu M, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):646–51 (10 ref.) **(Jpn)**

ULTRASONOGRAPHY

Scanning of polypoid gallbladder lesions by ultrasonic microprobes using transpapillary catheterization. Uchida N, et al. **Endoscopy** 1996 Mar;28(3):302–5

Natural history of polypoid lesions in the gall bladder. Moriguchi H, et al. **Gut** 1996 Dec;39(96):860–2

Incisional hernia of gallbladder in a patient with gallbladder carcinoma: sonographic demonstration. Shirahama M, et al. **J Clin Ultrasound** 1997 Sep;25(7):398–400

Differential diagnosis of gall-bladder masses using colour Doppler ultrasonography. Hirooka Y, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):840–6

[Malignant melanoma of the gallbladder] Longwitz D, et al. **Ultraschall Med** 1996 Aug;17(4):195–8 (Eng. Abstr.) **(Ger)**

[Diagnosis of superficial-type early carcinoma of the gallbladder by endoscopic ultrasonography—comparison with ultrasonography] Kimura K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Jul;93(7):462–9 (Eng. Abstr.) **(Jpn)**

[Diagnosis for pedunculated polypoid lesions of the gallbladder by endoscopic ultrasonography] Kimura K. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):249–60 (Eng. Abstr.) **(Jpn)**

VETERINARY

Tumours of the liver. Moore MA, et al. **IARC Sci Publ** 1996; (126):79–108 (83 ref.)

Tumours of the gallbladder. Turusov VS, et al. **IARC Sci Publ** 1996;(126):109–25 (21 ref.)

GALLIC ACID

ANALOGS & DERIVATIVES

Sulfated pentagalloyl glucose (Y-ART-3) inhibits HIV replication and cytopathic effects in vitro, and reduces HIV infection in hu-PBL-SCID mice. Nakashima H, et al. **Antiviral Res** 1996 May;30(2-3):95–108

Effects of nifedipine and TMB-8 on angiotensin II-induced antinatriuresis in anesthetized dogs. Takahara A, et al. **Arch Int Pharmacodyn Ther** 1995 Nov-Dec;330(3):309–18

Alkylsyringamides, new inducers of Agrobacterium tumefaciens virulence genes. Dyé F, et al. **Biochimie** 1997; 79(1):3–6

Chemoattraction of anaerobic ruminal fungi zoospores to selected phenolic acids. Wubah DA, et al. **Microbiol Res** 1996 Aug;151(3):257–62

Effects of 8-(N-N-diethylamino)octyl-3,4,5-trimethoxybenzoate hydrochloride (TMB-8) on skinned myocardial fibres of the rat: reversible inhibition of calcium release from the sarcoplasmic reticulum. Takahashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):650–5

[Comment on the contribution by J. Strutz. Bismuth gallate in wound management (letter)] Greusing B. **HNO** 1996 Aug;44(8):426 **(Ger)**

METABOLISM

Time- and dose-dependent antigonadotropic activity of oxidation products of gallic acid and pyrogallol on Leydig cells in vitro. Burczyk J, et al. **Cytobios** 1996;86(344):7–16

PHARMACOLOGY

Prooxidant action of two antioxidants: ascorbic acid and gallic acid. Sakagami H, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):221–4

Possible role of radical intensity and oxidation potential for gallic acid-induced apoptosis. Sakagami H, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):377–80

Methionine oxidation and apoptosis induction by ascorbate, gallate and hydrogen peroxide. Sakagami H, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2565–70

Inhibition of PhIP mutagenicity by catechins, and by theaflavins and gallate esters. Apostolides Z, et al. **Mutat Res** 1997 Mar 17;389(2-3):167–72

TOXICITY

Effect of copper and iron ions on cytotoxicity induced by ascorbate, gallate and caffeate. Satoh K, et al. **Anticancer Res** 1997 May-Jun;17(3C):2181–4

GALLID HERPESVIRUS 1 see **HERPESVIRUS 1, GALLID**

GALLID HERPESVIRUS 2 see **HERPESVIRUS 2, GALLID**

GALLIUM

Direct bonding to Adlloy-treated amalgam. Gross MW, et al. **Am J Orthod Dentofacial Orthop** 1997 Sep;112(3):252–8

Orthodontic bonding to Adlloy-treated type IV gold. Nollie G, et al. **Angle Orthod** 1997;67(3):183–8

Gallium alloy [letter; comment] Mahler DB. **J Am Dent Assoc** 1996 Dec;127(12):1700, 1702. Comment on: J Am Dent Assoc 1996 Aug;127(8):1195–200.

ADMINISTRATION & DOSAGE

Evaluation of continuous-infusion gallium nitrate and hydroxyurea in combination for the treatment of refractory non-Hodgkin's lymphoma. Chitambar CR, et al. **Am J Clin Oncol** 1997 Apr;20(2):173–8

Phase II randomized trial of gallium nitrate plus fluorouracil versus methotrexate, vinblastine, doxorubicin, and cisplatin in patients with advanced transitional-cell carcinoma. McCaffrey JA, et al. **J Clin Oncol** 1997 Jun;15(6):2449–55

BLOOD

Gallium-transferrin binding in treated and untreated Parkinson's disease. Winsper SJ, et al. **Neuroreport** 1997 Feb 10;8(3):709–11

CHEMISTRY

Structure of dental gallium alloys. Herø H, et al. **Biomaterials** 1996 Jul;17(13):1321–6

Galvanic corrosion and cytotoxic effects of amalgam and gallium alloys coupled to titanium. Bumgardner JD, et al. **Eur J Oral Sci** 1996 Jun;104(3):300–8

Structural features of the metal binding site and dynamics of gallium putidaredoxin, a diamagnetic derivative of a Cys4Fe2S2 ferredoxin. Kazanis S, et al. **J Biomol NMR** 1997 Jun;9(4):337–46

Dental gallium alloy composites studied by SEM and TEM. Gunnaes AE, et al. **J Microsc** 1997 Feb;185 (Pt 2):188–98

Quadrupolar nutation NMR on a compound semiconductor gallium-arsenide. Takeuchi J, et al. **Solid State Nucl Magn Reson** 1997 Apr;8(2):123–8

DIAGNOSTIC USE

Accumulation of Tc-99m MIBI in breast lymphoma: comparison with Ga-67 citrate. Nishiyama Y, et al. **Ann Nucl Med** 1996 Nov;10(4):429–32

Ga-67 citrate and Tc-99m MDP uptake in peritoneal metastases from a poorly differentiated adenocarcinoma of gynecologic origin. Bykov S, et al. **Clin Nucl Med** 1997 May;22(5):342–3

Gallium scanning in the 'new' tuberculosis. Goldfarb CR, et al. **Clin Nucl Med** 1997 Jul;22(7):470–4

Thyroid lymphoma and Hashimoto's thyroiditis: Tc-99m pertechnetate and Ga-67 citrate imaging in two cases. Jung WK, et al. **Clin Nucl Med** 1996 Nov;21(11):894–6

Intense muscle uptake of Tc-99m MDP and Ga-67 citrate in massive rhabdomyolysis. Provan I, et al. **Clin Nucl Med** 1997 Jul;22(7):463–6

Bone lymphoma. Comparison of Tl-201 and Ga-67 citrate scintigraphy in assessment of treatment response. Roach PJ, et al. **Clin Nucl Med** 1996 Sep;21(9):689–94

Ga-67 scintigraphy in a patient with infected vascular synthetic graft. Turpin S, et al. **Clin Nucl Med** 1997 Jul; 22(7):497–8

Changes in results of Gallium-67-citrate scanning after interferon therapy for chronic hepatitis C. Shiomi S, et al. **J Nucl Med** 1997 Feb;38(2):216–9

Gallium-67-citrate imaging in nuclear oncology. Macapinlac HA, et al. **Nucl Med Biol** 1994 Jul;21(5):731–8

[Scintigraphy with radiogallium in oncologic and non-oncologic diseases. State of the art and main indications] Gasparini M, et al. **Radiol Med (Torino)** 1996 Dec;92(6):770–7 (47 ref.) (Eng. Abstr.) **(Ita)**

PHARMACOKINETICS

Resistance to the antitumor agent gallium nitrate in human leukemic cells is associated with decreased gallium/iron uptake, increased activity of iron regulatory protein-1, and decreased ferritin production. Chitambar CR, et al. **J Biol Chem** 1997 May 2;272(18):12151–7

PHARMACOLOGY

Modulation of in vitro and in vivo T-cell responses by transferrin-gallium and gallium nitrate. Drobyski WR, et al. **Blood** 1996 Oct 15;88(8):3056–64

In vitro effect of gallium nitrate when combined with ketoconazole in the prostate cancer cell line PC-3. Dixon SC, et al. **Cancer Lett** 1997 Feb 26;113(1-2):111–6

Polyvalent cationic metals induce the rate of transferrin-independent iron acquisition by HL-60 cells. Olakanmi O, et al. **J Biol Chem** 1997 Jan 31;272(5):2599–606

Transferrin dependence of Ga (NO3)3 inhibition of growth in human-derived small cell lung cancer cells. Weiner RE, et al. **J Cell Biochem Suppl** 1996;24:276–87

Gallium arsenide selectively suppresses antigen processing by splenic macrophages for CD4+ T cell activation. Lewis TA, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1244–51

Gallium arsenide augments antigen processing by peritoneal macrophages for CD4+ helper T cell stimulation. Hartmann CB, et al. **Toxicol Appl Pharmacol** 1996 Dec; 141(2):365–72

THERAPEUTIC USE

Effect of gallium nitrate therapy on Ga-67 scintigraphic detection of lymphoma: case report. Akansel G, et al. **Clin Nucl Med** 1997 Jan;22(1):21–4

TOXICITY

Acute pulmonary toxicity of copper gallium diselenide, copper indium diselenide, and cadmium telluride intratracheally instilled into rats. Morgan DL, et al. **Environ Res** 1995 Oct;71(1):16–24

Testicular toxicity of gallium arsenide, indium arsenide, and arsenic oxide in rats by repetitive intratracheal instillation [published erratum appears in Fundam Appl Toxicol 1997 Jan;35(1):142] Omura M, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):72–8

Resistance to the antitumor agent gallium nitrate in human leukemic cells is associated with decreased gallium/iron uptake, increased activity of iron regulatory protein-1, and decreased ferritin production. Chitambar CR, et al. **J Biol Chem** 1997 May 2;272(18):12151–7

Testicular toxicity evaluation of arsenic-containing binary compound semiconductors, gallium arsenide and indium arsenide, in hamsters. Omura M, et al. **Toxicol Lett** 1996 Dec 16;89(2):123–9

GALLIUM RADIOISOTOPES

BLOOD

PBSC collection following 67Ga infusion for a nuclear medicine study. Gorlin JB, et al. **J Hematother** 1996 Aug; 5(4):321–2

CHEMISTRY

A newly designed radioimmunoconjugate releasing a hippurate-like radiometal chelate for enhanced target/non-target radioactivity. Arano Y, et al. **Nucl Med Biol** 1994 Jan;21(1):63–9

Rapid synthesis and quality control of 68Ga-labeled chelates for clinical use. Goodwin DA, et al. **Nucl Med Biol** 1994 Aug;21(6):897–9

DIAGNOSTIC USE

Preschool sarcoidosis mimicking juvenile rheumatoid arthritis: the significance of gallium scintigraphy and skin biopsy in the differential diagnosis. Sakurai Y, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):74–8

Evaluation of four radiopharmaceuticals for imaging inflammation in a rabbit model of arthritis. Chinol M, et al. **Ann Nucl Med** 1996 Aug;10(3):287–91

Intense Ga-67 uptake in adenosquamous carcinoma of the pancreas. Kuji I, et al. **Ann Nucl Med** 1997 Feb;11(1):41–3

Accumulation of Tc-99m MIBI in breast lymphoma: comparison with Ga-67 citrate. Nishiyama Y, et al. **Ann Nucl Med** 1996 Nov;10(4):429–32

Incidental 67Ga uptake into an appendiceal mucocele in a patient with sigmoid colon cancer. Ohta H, et al. **Ann Nucl Med** 1996 May;10(2):257–9

Early massive accumulation of In-111 pentetreotide in a metastatic liver tumor of islet cell carcinoma. Tsukamoto E, et al. **Ann Nucl Med** 1996 Aug;10(3):339–42

Comparison of gallium scan, computed tomography, and magnetic resonance in patients with mediastinal Hodgkin's disease. Devizzi L, et al. **Ann Oncol** 1997;8 Suppl 1:53–6

Comparison of thallium-201 and gallium-67 scintigraphy in soft tissue and bone marrow multiple myeloma: a case report. Roach PJ, et al. **Australas Radiol** 1997 Feb; 41(1):67–9

Biodistribution and catabolism of Ga-67-labeled anti-Tac dsFv fragment. Wu C, et al. **Bioconjug Chem** 1997 May-Jun;8(3):365–9

Uptake of 26-Al and 67-Ga into brain and other tissues of normal and hypotransferrinaemic mice. Radunović A, et al. **Biometals** 1997 Jul;10(3):185–91

Gallium-67 lung imaging and pulmonary clearance of 99mTc-DTPA aerosol in patients with amiodarone pneumonitis. Terra-Filho M, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1467–71

Disseminated mycobacterium avium complex. Review of Ga-67 and Tl-201 scans and autopsy findings. Abdel-Dayem HM, et al. **Clin Nucl Med** 1996 Jul; 21(7):547–56

Sites of tuberculous involvement in patients with AIDS. Autopsy findings and evaluation of gallium imaging. Abdel-Dayem HM, et al. **Clin Nucl Med** 1997 May; 22(5):310–4

Comparison of Tc-99m pertechnetate with Tl-201 and Ga-67 scintigraphy of malignant soft-tissue tumors. Abe H, et al. **Clin Nucl Med** 1997 Jan;22(1):38–41

Effect of gallium nitrate therapy on Ga-67 scintigraphic detection of lymphoma: case report. Akansel G, et al. **Clin Nucl Med** 1997 Jan;22(1):21–4

Ga-67 citrate and Tc-99m MDP uptake in peritoneal metastases from a poorly differentiated adenocarcinoma of gynecologic origin. Bykov S, et al. **Clin Nucl Med** 1997 May;22(5):342–3

Chilaiditi's syndrome. Incidental findings on Ga-67 scintigraphy. Chandramouly B, et al. **Clin Nucl Med** 1997 Aug;22(8):575–6

Ga-67 uptake in a case of tuberculous spondylitis. Everaert H, et al. **Clin Nucl Med** 1997 Jun;22(6):403–4

Incidental massive Ga-67 uptake in the thorax and abdomen for the diagnosis of lumbar osteomyelitis. Finn N, et al. **Clin Nucl Med** 1997 Jun;22(6):417–8

Increased bone marrow uptake of Ga-67 in patients with fever of unknown origin. Flores LG 2nd, et al. **Clin Nucl Med** 1996 Oct;21(10):786–91

Ga-67 visualizing metastases of malignant melanoma to gastric cancer. Fukumoto M, et al. **Clin Nucl Med** 1997

Jun;22(6):415–6
Adult T–cell leukemia with invasion by malignant cells of the parotid glands diagnosed by Ga–67 imaging. Fukuzawa J, et al. **Clin Nucl Med** 1996 Dec;21(12):964–6
Adult T–cell leukemia with invasion by malignant cells of both parotid glands diagnosed by an Ga–67 imaging: a case report. Fukuzawa J, et al. **Clin Nucl Med** 1997 Jan; 22(1):61–3
Aggressive granulomatosis causing a painful hip arthroplasty. Findings on bone and Ga–67 imaging. Gayle EL, et al. **Clin Nucl Med** 1996 Apr;21(4):337–9
Gallium scanning in the 'new' tuberculosis. Goldfarb CR, et al. **Clin Nucl Med** 1997 Jul;22(7):470–4
Adenocarcinoma mimicking primary gastric lymphoma demonstrated by Ga–67 citrate imaging. Hirano T, et al. **Clin Nucl Med** 1997 Mar;22(3):187–8
SLE myocarditis. Detection by Ga–67 citrate scintigraphy. Jolles PR, et al. **Clin Nucl Med** 1996 Apr;21(4):284–6
Ga–67 muscle uptake in a weight lifter after exercise. Kanski JW, et al. **Clin Nucl Med** 1997 Jun;22(6):393
Ga–67 uptake in fibrous dysplasia. Kapadia K, et al. **Clin Nucl Med** 1996 Oct;21(10):797–8
Massive cardiac Ga–67 uptake in a child with pulmonary hypertension, heart failure, and bleeding. Karimeddini MK, et al. **Clin Nucl Med** 1997 Feb;22(2):128–9
Castleman disease in the anterior neck: the role of Ga–67 scintigraphy. Kinoshita T, et al. **Clin Nucl Med** 1996 Aug; 21(8):626–8
Ga–67 SPECT in primary gastroesophageal malignant melanoma. Kinuya S, et al. **Clin Nucl Med** 1996 Apr; 21(4):325–6
Primary lymphomas of the breast detected by Ga–67 scintigraphy. Koizumi M, et al. **Clin Nucl Med** 1996 Nov; 21(11):873–6
Tc–99m MDP and Ga–67 scintigraphy in gangrenous muscle. Loh YH, et al. **Clin Nucl Med** 1996 Oct;21(10):799–800
Richter's syndrome. Findings on Ga–67 and bone marrow imaging. Lorberboym M, et al. **Clin Nucl Med** 1996 Apr; 21(4):319–20
Pancreatitis secondary to endoscopic retrograde cholangiopancreatography on a whole–body Ga–67 scan. Lyons KP, et al. **Clin Nucl Med** 1997 Aug;22(8):565–6
Gallium scintigraphic demonstration of arteritis in Takayasu disease. Miller JH, et al. **Clin Nucl Med** 1996 Nov; 21(11):882–3
Tc–99m HMDP and Ga–67 imaging along with CT and MRI in fibrous dysplasia of the temporal bone. Ohta H, et al. **Clin Nucl Med** 1997 May;22(5):328–30
Liver tuberculoma detected by Ga–67 imaging. Ohta H, et al. **Clin Nucl Med** 1996 Jul;21(7):577
Evaluation of a patient with a brain abscess caused by nocardia asteroides infection with Ga–67 and Tc–99m HMPAO leukocytes. Orsolon P, et al. **Clin Nucl Med** 1997 Jun;22(6):407–8
Intense muscle uptake of Tc–99m MDP and Ga–67 citrate in massive rhabdomyolysis. Provan I, et al. **Clin Nucl Med** 1997 Jul;22(7):463–6
Reversal of Ga–67 'bone scan' with vitamin B12 therapy in a patient with pernicious anemia. Suga K, et al. **Clin Nucl Med** 1997 Aug;22(8):561–2
Survey of myeloblastoma with Ga–67 scan in a patient with acute leukemia. Takayama T, et al. **Clin Nucl Med** 1997 Jun;22(6):434–7
Ga–67 scintigraphy in pediatric patients. Comparison of extended SPECT of the chest and abdomen with planar imaging. Tan TX, et al. **Clin Nucl Med** 1996 Sep; 21(9):717–9
Ga–67 scintigraphy of malignant lymphoma of the uterus. Taniguchi M, et al. **Clin Nucl Med** 1996 Sep;21(9):742–3
Ga–67 scintigraphy in a patient with infected vascular synthetic graft. Turpin S, et al. **Clin Nucl Med** 1997 Jul; 22(7):497–8
Aseptic necrosis. A scintigraphic imitator of osseous involvement in Ga–67 avid lymphoma. Van de Wiele C, et al. **Clin Nucl Med** 1997 Feb;22(2):101–3
Primary malignant lymphoma of the spine diagnosed by Tc–99m MDP and Ga–67 imaging. Young TH, et al. **Clin Nucl Med** 1997 Apr;22(4):274–6
Esophageal tuberculosis with supraclavicular lymph node involvement demonstrated by Ga–67 imaging. Young TH, et al. **Clin Nucl Med** 1996 Apr;21(4):344
Clinical significance of thallium–201 and gallium–67 scintigraphy in pulmonary tuberculosis. Utsunomiya K, et al. **Eur J Nucl Med** 1997 Mar;24(3):252–7
Prospective study of bone, indium–111–labeled white blood cell, and gallium–67 scanning for the evaluation of osteomyelitis in the diabetic foot. Johnson JE, et al. **Foot Ankle Int** 1996 Jan;17(1):10–6
The role of gallium–67 scintigraphy in diagnosing sources of fever in ventilated patients. Meduri GU, et al. **Intensive Care Med** 1996 May;22(5):395–403
Early restaging gallium scans predict outcome in poor–prognosis patients with aggressive non–Hodgkin's lymphoma treated with high–dose CHOP chemotherapy. Janicek M, et al. **J Clin Oncol** 1997 Apr;15(4):1631–7
Gallium scans in the management of patients with Hodgkin's disease: a study of 101 patients. Salloum E, et al. **J Clin Oncol** 1997 Feb;15(2):518–27
Single–photon emission computed tomography gallium imaging versus computed tomography: predictive value in patients undergoing high–dose chemotherapy and autologous stem–cell transplantation for non–Hodgkin's lymphoma. Vose JM, et al. **J Clin Oncol** 1996 Sep; 14(9):2473–9
Evaluation of sequential thallium and gallium scans of the chest in AIDS patients. Abdel–Dayem HM, et al. **J Nucl Med** 1996 Oct;37(10):1662–7
Will thallium–201 replace gallium–67 in salivary gland scintigraphy? Arbab AS, et al. **J Nucl Med** 1996 Nov; 37(11):1819–23
Procedure guideline for gallium scintigraphy in the evaluation of malignant disease. Society of Nuclear Medicine. Bartold SP, et al. **J Nucl Med** 1997 Jun; 38(6):990–4
Present state and future role of gallium–67 scintigraphy in lymphoma. Front D, et al. **J Nucl Med** 1996 Mar; 37(3):530–2
Procedure guideline for gallium scintigraphy in inflammation. Society of Nuclear Medicine. Seabold JE, et al. **J Nucl Med** 1997 Jun;38(6):994–7
Gallium–67 and technetium–99m–MDP scintigraphy for osseous involvement in lymphoma [letter; comment] Van de Wiele C, et al. **J Nucl Med** 1996 Mar;37(3):548. Comment on: J Nucl Med 1995 Mar;36(3):446–50.
Monitoring bulky mediastinal disease with gallium–67, CT–scan and magnetic resonance imaging in Hodgkin's disease and high–grade non–Hodgkin's lymphoma. Zinzani PL, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):131–5
Magnetic resonance imaging and 67Ga scan versus computed tomography in the staging and in the monitoring of mediastinal malignant lymphoma: a prospective pilot study. Bendini M, et al. **MAGMA** 1996 Sep–Dec;4(3–4):213–24
Gallium–67–citrate imaging in nuclear oncology. Macapinlac HA, et al. **Nucl Med Biol** 1994 Jul;21(5):731–8
PET–pharmacokinetics of 18F–octreotide: a comparison with 67Ga–DFO– and 86Y–DTPA–octreotide. Wester HJ, et al. **Nucl Med Biol** 1997 May;24(4):275–86
67Ga scintigraphy for the evaluation of recurrences and residual masses in patients with lymphoma. Setoain FJ, et al. **Nucl Med Commun** 1997 May;18(5):405–11
The value of combined serum angiotensin–converting enzyme and gallium scan in diagnosing ocular sarcoidosis. Power WJ, et al. **Ophthalmology** 1995 Dec;102(12):2007–11
Pulmonary gallium–67 uptake in diffuse pulmonary calcinosis. Yeo E, et al. **Pediatr Radiol** 1996 Nov; 26(11):825–6
Value of low–dose gallium–67 imaging in detection of non–Hodgkin's lymphoma recurrence. Nakayama M, et al. **Radiat Med** 1997 Mar–Apr;15(2):79–83
The continuing clinical role of gallium 67 scintigraphy in the age of receptor imaging. Front D, et al. **Semin Nucl Med** 1997 Jan;27(1):68–74 (21 ref.)
Congruent uptake in bone and gallium scans in primary large–cell lymphoma of bone. Goshen E, et al. **Semin Nucl Med** 1997 Jan;27(1):75–8
[Role of 67 Gallium citrate and 99mTc–HMPAO–labelled neutrophils in the integrated diagnostic imaging in a case of Peptostreptococcus anaerobius hepatic abscess] Celentano L, et al. **Radiol Med (Torino)** 1996 Jul–Aug; 92(1–2):149–52 **(Ita)**
[Scintigraphy with radiogallium in oncologic and non–oncologic diseases. State of the art and main indications] Gasparini M, et al. **Radiol Med (Torino)** 1996 Dec;92(6):770–7 (47 ref.) (Eng. Abstr.) **(Ita)**
[Myocardial metastasis in the right ventricle from uterine cervical carcinoma with high 67Ga–citrate accumulation: a case report] Ando K, et al. **Kaku Igaku** 1996 Sep; 33(9):1011–4 (Eng. Abstr.) **(Jpn)**
[The possibility of evaluation on inflammatory change at respiratory tract in chronic bronchial asthma using 67Ga scintigraphy] Fukumitsu N, et al. **Kaku Igaku** 1997 May; 34(5):337–41 (Eng. Abstr.) **(Jpn)**
[Clinical value of 67gallium single photon emission tomography] Kobayashi H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Nov; 34(11):1202–7 (Eng. Abstr.) **(Jpn)**
[Scintigraphic evaluation of 67GA citrate in the comprehensive study of diffuse pulmonary lesions] Sigaev AT, et al. **Probl Tuberk** 1996;(6):68–71 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Incidental 67Ga uptake into an appendiceal mucocele in a patient with sigmoid colon cancer. Ohta H, et al. **Ann Nucl Med** 1996 May;10(2):257–9
Biodistribution of the lipophilic complexes 59Fe(RsalH2)3tach (R = H, NO2 and OMe) and 68Ga(NO2salH2)3tach. Bollinger JE, et al. **Nucl Med Biol** 1996 Jul;23(5):645–52
The mechanism of 67Ga localization in malignant disease. Weiner RE. **Nucl Med Biol** 1996 Aug;23(6):745–51 (114 ref.)

THERAPEUTIC USE

Advanced prostate cancer diagnosis and therapy with gallium–67 and yttrium–90, respectively. Shukla SK, et al. **Anticancer Res** 1997 May–Jun;17(3B):1731–4
Renal cell carcinoma detection and systemic therapy with tumour–affine gallium–67 and with yttrium–90 citrate solutions. Shukla SK, et al. **Anticancer Res** 1997 May–Jun; 17(3B):1713–8
An investigation of the physical characteristics of 66Ga as an isotope for PET imaging and quantification. Graham MC, et al. **Med Phys** 1997 Feb;24(2):317–26

GALLODESOXYCHOLIC ACID see **CHENODEOXYCHOLIC ACID**

GALLOPAMIL

ANTAGONISTS & INHIBITORS

GTP gammaS removal of D–600 block of skeletal muscle excitation–contraction coupling. Carney–Anderson L, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C572–81
Stimulation of calcium influx and platelet activation by canatoxin: methoxyverapamil inhibition and downregulation by cGMP. Ghazaleh FA, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):362–7

BLOOD

Internally standardized simultaneous assay of gallopamil enantiomers in human plasma by means of high performance liquid chromatography. Kern R. **Methods Find Exp Clin Pharmacol** 1996 May;18(4):279–85

PHARMACOKINETICS

Pharmacokinetics and pharmacodynamics of the enantiomers of gallopamil. Gross AS, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1102–12
Efficacy and pharmacokinetics of gallopamil in patients with coronary artery disease. Ferrara N, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):37–41

PHARMACOLOGY

GTP gammaS removal of D–600 block of skeletal muscle excitation–contraction coupling. Carney–Anderson L, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C572–81
Effect of the organic Ca2+ channel blocker D–600 on sarcoplasmic reticulum Ca2+ uptake in skeletal muscle. Ortega A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C310–7
Effect of gallopamil on excitation–contraction coupling. Zucchi R. **Gen Pharmacol** 1996 Jul;27(5):749–53 (55 ref.)
Pharmacokinetics and pharmacodynamics of the enantiomers of gallopamil. Gross AS, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1102–12
Action of tertiary phenylalkylamines on cardiac transient outward current from outside the cell membrane. Wegener JW, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec;354(6):746–54
Nerve injury induced by vibration: prevention of the effect of a conditioning lesion by D600, a Ca2+ channel blocker. Widerberg A, et al. **Occup Environ Med** 1997 May; 54(5):312–5
Haemodynamic and metabolic effects of gallopamil as additive to calcium–containing and calcium–free cardioplegic solutions in mature pig hearts. Randsbaek F, et al. **Scand Cardiovasc J** 1997;31(2):83–9

THERAPEUTIC USE

Effect of gallopamil on myocardial microperfusion in patients with stable effort angina: a randomized, cross–over, double–blind, placebo–controlled trial. Acanfora D, et al. **Cardiology** 1997 Jul–Aug;88(4):353–60
Systemic and regional hemodynamic effects of gallopamil in patients with essential hypertension. Ketelhut RG, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):39–42
Gallopamil reduces the post–transplantation acute tubular necrosis in kidneys from aged donors. Lustig S, et al. **Isr J Med Sci** 1996 Dec;32(12):1249–51
Prevention of reoxygenation–induced arrhythmias in guinea pig papillary muscles. Hayashi H, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):816–23
Efficacy and pharmacokinetics of gallopamil in patients with coronary artery disease. Ferrara N, et al. **Pharmacol Res** 1996 Jul–Aug;34(1–2):37–41
Influence of gallopamil on the gastric effects of stress in conscious rats. Coşkun T, et al. **Pharmacology** 1996 Apr; 52(4):199–206

GALLOTANNIC ACID see **TANNIC ACID**

GALLS, PLANT see **PLANT TUMORS**

GALLSTONES see **CHOLELITHIASIS**

GALLSTONES, COMMON BILE DUCT see **COMMON BILE DUCT CALCULI**

GALVANIC SKIN RESPONSE

Autonomic dysfunction in Parkinson's disease assessed by sympathetic skin response: a prospective clinical and neurophysiological trial on 50 patients. Braune HJ, et al. **Acta Neurol Scand** 1997 May;95(5):293–7
Sympathetic skin response in patients with chronic renal failure. Cemal Ozcan A, et al. **Acta Neurol Scand** 1996 Jun; 93(6):437–42
The effects of age, sex and time of testing on skin conductance activity. Venables PH, et al. **Biol Psychol** 1996 Apr 12;43(2):87–101
Investigation of the speed of reaction on external stimulus in schizophrenic psychosis. Zampera E. **Coll Antropol** 1997 Jun;21(1):259–68

Electrodermal activity and social network as predictors of outcome of episodes in schizophrenia. Hultman CM, et al. **J Abnorm Psychol** 1996 Nov;105(4):626–36
Heart rate and skin conductance in behaviorally inhibited Mauritian children. Scarpa A, et al. **J Abnorm Psychol** 1997 May;106(2):182–90
Effect of skin impedance on image quality and variability in electrical impedance tomography: a model study. Boone KG, et al. **Med Biol Eng Comput** 1996 Sep;34(5):351–4
Factors affecting electrode–gel–skin interface impedance in electrical impedance tomography. McAdams ET, et al. **Med Biol Eng Comput** 1996 Nov;34(6):397–408 (84 ref.)
Information in full and reduced data sets of electrical impedance spectra from various skin conditions, compared using a holographic neural network. Ollmar S, et al. **Med Biol Eng Comput** 1997 Jul;35(4):415–9
Reproducibility of sympathetic skin response [letter] Denislic M, et al. **Muscle Nerve** 1997 Oct;20(10):1332–4
Sympathetic skin responses evoked by magnetic stimulation of the neck: normative data. Linden D, et al. **Muscle Nerve** 1996 Nov;19(11):1487–9
Reproducibility of sympathetic skin response. Toyokura M, et al. **Muscle Nerve** 1996 Nov;19(11):1481–3
Effects of pain–incompatible imagery on tolerance of pain, heart rate, and skin resistance. Neumann W, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):939–43
Electrode–skin impedance from a dielectric viewpoint. Calderwood JH. **Physiol Meas** 1996 Nov;17 Suppl 4A:A131–9
Electrodermal lability in anxiety disorders. Jensen HH, et al. **Scand J Psychol** 1996 Mar;37(1):103–8
[W–type ileal pouch pressure and transcutaneous electrical activity in relations to clinical defecation scores] Hasegawa J, et al. **J Smooth Muscle Res** 1995 Dec;31(6):512–4 **(Jpn)**
[Dynamics of electrodermal activity during changes in the hydration of the epidermis: theoretical model] Makhnev VP. **Biofizika** 1997 Jan–Feb;42(1):201–8 (Eng. Abstr.) **(Rus)**
[Circadian rhythm of electrical potential of the epidermis in patients with hypertension] Tornuev IuV. **Biull Eksp Biol Med** 1997 Mar;123(3):329–31 **(Rus)**
[Asymmetry of electrodermal activity and its dynamics during flight over time zones] Tornuev IuV, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):391–4 **(Rus)**

DRUG EFFECTS

Comparison of the effects of a selective muscarinic receptor antagonist and hyoscine (scopolamine) on motion sickness, skin conductance and heart rate. Golding JF, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):633–7
Effects of calcipotriol on stratum corneum barrier function, hydration and cell renewal in humans. Effendy I, et al. **Br J Dermatol** 1996 Oct;135(4):545–9
Transcutaneous electrical resistance: application in predicting skin corrosives. Lewis RW, et al. **Curr Probl Dermatol** 1995; 23:243–55 (15 ref.)
Effect of intravenous sodium amytal on cutaneous limb temperatures and sympathetic skin responses in normal subjects and pain patients with and without Complex Regional Pain Syndromes (type I and II). I. Mailis A, et al. **Pain** 1997 Mar;70(1):59–68

PHYSIOLOGY

Ironic effects of trying to relax under stress. Wegner DM, et al. **Behav Res Ther** 1997 Jan;35(1):11–21
Electrodermal activity as a prodromal sign in schizophrenia. Hazlett H, et al. **Biol Psychiatry** 1997 Jan 1;41(1):111–3
UCS inflation and human aversive autonomic conditioning. de Jong PJ, et al. **Biol Psychol** 1996 Jun 28;43(3):227–39
Effects of intermodality change and number of training trials on electrodermal orienting and on the allocation of processing resources. Siddle DA, et al. **Biol Psychol** 1996 Mar 8;43(1):57–67
Electrodermal activity in patients with Parkinson's disease. Esen F, et al. **Clin Auton Res** 1997 Feb;7(1):35–40
Influence of respiration on human sympathetic skin response. Krishnamurthy N, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):350–4
Svara (nostril dominance) and bilateral volar GSR [published erratum appears in Indian J Physiol Pharacol 1996 Oct;40(4):391] Mohan SM. **Indian J Physiol Pharmacol** 1996 Jan;40(1):58–64
Electrodermal lability and hypertension. Kronholm E, et al. **Int J Psychophysiol** 1996 Aug–Sep;23(1–2):129–36
Neuroanatomical bases of electrodermal hypo–responding: a cluster analytic study. Lencz T, et al. **Int J Psychophysiol** 1996 Jun–Jul;22(3):141–53
Decomposing skin conductance into tonic and phasic components. Lim CL, et al. **Int J Psychophysiol** 1997 Feb; 25(2):97–109
The relationship between quantified EEG and skin conductance level. Lim CL, et al. **Int J Psychophysiol** 1996 Feb–Mar;21(2–3):151–62
Direct electrical stimulation of specific human brain structures and bilateral electrodermal activity. Mangina CA, et al. **Int J Psychophysiol** 1996 Apr–May;22(1–2):1–8
Sympathetic skin response in diabetic neuropathy: a prospective clinical and neurophysiological trial on 100 patients. Braune HJ, et al. **J Neurol Sci** 1996 Jun; 138(1–2):120–4
Auditory and inspiratory gasp–evoked sympathetic skin response: age effects. Hay JE, et al. **J Neurol Sci** 1997 May 1;148(1):19–23
Measurement of menopausal hot flushes: validation and cross–validation. de Bakker IP, et al. **Maturitas** 1996 Oct; 25(2):87–98
Dielectric properties of some keratinised tissues. Part 1: Stratum corneum and nail in situ. Martinsen OG, et al. **Med Biol Eng Comput** 1997 May;35(3):172–6
Sympathetic skin response and R–R interval variability in multiple system atrophy and idiopathic Parkinson's disease. Bordet R, et al. **Mov Disord** 1996 May;11(3):268–72
Electrodermal response in nonglabrous skin of freely moving rats: mediation by the sympathetic nervous system and evaluation in an animal model of depression. Guinjoan SM, et al. **Neuropsychobiology** 1996;33(3):147–54
Galvanic vestibular stimulation in humans: effects on otolith function in roll. Zink R, et al. **Neurosci Lett** 1997 Sep 5; 232(3):171–4
Delayed habituation of the skin–conductance orienting response correlates with impaired performance on the Wisconsin Card Sorting Task in schizophrenia. Schiffer RA, et al. **Psychiatry Res** 1996 Nov 15;65(2):107–12
The effect of emotional and attentional processes on blink startle modulation and on electrodermal responses. Lipp OV, et al. **Psychophysiology** 1997 May;34(3):340–7
The effect of unconditional stimulus modality and intensity on blink startle and electrodermal responses. Siddle DA, et al. **Psychophysiology** 1997 Jul;34(4):406–13
Maternal exposure to influenza and cold in pregnancy and electrodermal activity in offspring: the Mauritius Study. Venables PH. **Psychophysiology** 1997 Jul;34(4):427–35
[Depression and electrodermal response measures in a habituation experiment. Results from over 400 depressed inpatients] Wolfersdorf M, et al. **Fortschr Neurol Psychiatr** 1996 Mar;64(3):105–9 (Eng. Abstr.) **(Ger)**

GALVANISM, ORAL see **ELECTROGALVANISM, INTRAORAL**

GAMASOIDIASIS see **MITE INFESTATIONS**

GAMBLING

"Ask the gambling question," FPs told as "secret" addiction becomes more common. Kramer D. **CMAJ** 1997 Jul 1; 157(1):61–2
Technology. Upping the odds of survival [news] **Hosp Health Netw** 1997 Jun 5;71(11):13
Pathological gambling in Louisiana: an epidemiological perspective. Westphal JR, et al. **J La State Med Soc** 1996 Aug;148(8):353–8
Dissociative experiences scale and MMPI–2 scores in video poker gamblers, other gamblers, and alcoholic controls. Kofoed L, et al. **J Nerv Ment Dis** 1997 Jan;185(1):58–60
A study of the dopamine D2 receptor gene in pathological gambling. Comings DE, et al. **Pharmacogenetics** 1996 Jun; 6(3):223–34
Homelessness, negative affect, and coping among veterans with gambling problems who misused substances. Castellani B, et al. **Psychiatr Serv** 1996 Mar;47(3):298–9
A "parliamentary inquiry" into alcohol and drugs: a survey of psychoactive substance use and gambling among members of the Dutch parliament. Hendriks VM, et al. **Subst Use Misuse** 1997 May;32(6):679–97
Wisconsin must act on compulsive gambling [editorial] Black S. **Wis Med J** 1996 Sep;95(9):608–9
Problem gambling hits home [editorial] Burke JD. **Wis Med J** 1996 Sep;95(9):611–4
Gambling away the golden years. Fessler JL. **Wis Med J** 1996 Sep;95(9):618–9
Physician's health: getting the help you may need. Fessler JL. **Wis Med J** 1996 Sep;95(9):619–21
[An interview study of close relatives of pathological gamblers: the worst is to feel deceived and cheated] Jonsson J. **Lakartidningen** 1997 Apr 30;94(18):1675–6 **(Swe)**
[Pathological gambling] Lind J. **Lakartidningen** 1997 Apr 23; 94(17):1563–5 **(Swe)**
[Professor Conny Nordin: pathological gambling—a challenging phenomenon!] Lind J. **Lakartidningen** 1997 Apr 23;94(17):1565–70 **(Swe)**
[Professor Sten Rönnberg: the extent of gambling in Sweden is surveyed in a research project covering several years] Lind J. **Lakartidningen** 1997 May 21;94(21):1661–5 **(Swe)**

PSYCHOLOGY

Pathological gamblers and alcoholics: do they share the same addictions? Briggs JR, et al. **Addict Behav** 1996 Jul–Aug; 21(4):515–9
Impulsivity in pathological gambling: the antisocial impulsivist. Blaszczynski A, et al. **Addiction** 1997 Jan; 92(1):75–87
The Dutch instant lottery: prevalence and correlates of at–risk playing. Hendriks VM, et al. **Addiction** 1997 Mar; 92(3):335–46
Comparative study of problematic gambling behaviors between American Indian and non–Indian adolescents within and near a Northern Plains reservation. Zitzow D. **Am Indian Alsk Native Ment Health Res** 1996;7(2):14–26
Comparative study of problematic gambling behaviors between American Indian and non–Indian adults in a Northern Plains reservation. Zitzow D. **Am Indian Alsk Native Ment Health Res** 1996;7(2):27–41
Pathological gambling: forensic issues. Blaszczynski A, et al. **Aust N Z J Psychiatry** 1996 Jun;30(3):358–69 (70 ref.)
Pathological gambling and treatment. Griffiths M. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):477–9
Screening for pathological gambling among substance misusers [letter] Roy A, et al. **Br J Psychiatry** 1996 Oct; 169(4):523
Alcohol, drugs and gambling in the Ontario adult population, 1994. Smart RG, et al. **Can J Psychiatry** 1996 Feb; 41(1):36–45
Pathological gambling. Wadle C, et al. **Iowa Med** 1996 Oct; 86(8):323–4
Tests of consequence monotonicity in decision making under uncertainty. von Winterfeldt D, et al. **J Exp Psychol Learn Mem Cogn** 1997 Mar;23(2):406–26
Altered dopamine function in pathological gambling. Bergh C, et al. **Psychol Med** 1997 Mar;27(2):473–5
Pathological gambling in Spanish children and adolescents: an emerging problem. Becoña E. **Psychol Rep** 1997 Aug; 81(1):275–87
Pathological gambling and depression. Becona E, et al. **Psychol Rep** 1996 Apr;78(2):635–40
Arcade gambling: a research note. Griffiths M, et al. **Psychol Rep** 1997 Apr;80(2):413–4
The Lie/Bet Questionnaire for screening pathological gamblers. Johnson EE, et al. **Psychol Rep** 1997 Feb; 80(1):83–8
Sex differences in pathological gambling using gaming machines. Ohtsuka K, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):1051–7

GAMBUSIA see **CYPRINODONTIFORMES**

GAME THEORY

Preferential partner selection in an evolutionary study of Prisoner's Dilemma. Ashlock D, et al. **Biosystems** 1996; 37(1–2):99–125
Adaptation in a stochastic Prisoner's Dilemma with delayed information. Billard EA. **Biosystems** 1996;37(3):211–27
Evolving cooperation: the role of individual recognition. Crowley PH, et al. **Biosystems** 1996;37(1–2):49–66
Special issue on the prisoner's dilemma [editorial] Fogel DB. **Biosystems** 1996;37(1–2):1–2 (9 ref.)
Spatialization and greater generosity in the stochastic Prisoner's Dilemma. Grim P. **Biosystems** 1996;37(1–2):3–17 (39 ref.)
Evolving continuous behaviors in the Iterated Prisoner's Dilemma. Harrald PG, et al. **Biosystems** 1996; 37(1–2):135–45
An epistemic utility approach to coordination in the Prisoner's Dilemma. Moon TK, et al. **Biosystems** 1996; 37(1–2):167–76
The dilemma of Saussurean communication. Oliphant M. **Biosystems** 1996;37(1–2):31–8
The robustness of cognitively simple judgment in ecologies of Prisoner's Dilemma games. Orbell J, et al. **Biosystems** 1996;37(1–2):81–97
Multiagent reinforcement learning in the Iterated Prisoner's Dilemma. Sandholm TW, et al. **Biosystems** 1996; 37(1–2):147–66
Long–run cooperation in the one–shot Prisoner's Dilemma: a hierarchic evolutionary approach. Vega–Redondo F. **Biosystems** 1996;37(1–2):39–47
Evolutionary stability in the n–person iterated prisoner's dilemma. Yao X. **Biosystems** 1996;37(3):189–97
Multi–player matrix games. Broom M, et al. **Bull Math Biol** 1997 Sep;59(5):931–52
On the war of attrition and other games among kin. Mesterton–Gibbons M. **J Math Biol** 1996;34(3):253–60
The logic of contrition. Boerlijst MC, et al. **J Theor Biol** 1997 Apr 7;185(3):281–93
Spatial and density effects in evolutionary game theory. Cressman R, et al. **J Theor Biol** 1997 Feb 21;184(4):359–69
Evolutionary consequences of a trade–off between parental effort and mating effort. Dawson KJ. **J Theor Biol** 1996 Nov 21;183(2):139–58
Continuous stability and evolutionary convergence. Eshel I, et al. **J Theor Biol** 1997 Apr 7;185(3):333–43
The evolution of degrees of cooperation. Frean M. **J Theor Biol** 1996 Oct 21;182(4):549–59
Evolutionarily stable strategy distributions for the Repeated Prisoner's Dilemma. Mowbray M. **J Theor Biol** 1997 Jul 21;187(2):223–9
Discrete time spatial models arising in genetics, evolutionary game theory, and branching processes. Radcliffe J, et al. **Math Biosci** 1997 Mar;140(2):101–29
Game theory and reciprocity in some extensive form experimental games. McCabe KA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13421–8
[A socio–relational basis of "irrational" cooperation: an experimental study with the selective–play paradigm] Hayashi N, et al. **Shinrigaku Kenkyu** 1997 Feb;67(6):444–51 (Eng. Abstr.) **(Jpn)**

GAMES, EXPERIMENTAL

Make–believe hospital—a pediatric clinical experience. Warren IB. **J Nurs Educ** 1997 May;36(5):234–5
Social roles, social norms, and self–presentation in the quiz

effect of Ross, Amabile, and Steinmetz. Gibbins K, et al. **J Soc Psychol** 1996 Oct;136(5):625–34

Communicating with children: could you use some help? McElveen KA. **MCN Am J Matern Child Nurs** 1997 Mar–Apr;22(2):108–11

Is the contextual interference effect generalizable to computer games? Shewokis PA. **Percept Mot Skills** 1997 Feb;84(1):3–15

GAMETE INTRAFALLOPIAN TRANSFER

Effect of sperm preincubation time on GIFT pregnancy outcome. Coetzee K, et al. **Arch Androl** 1997 Mar–Apr; 38(2):157–61

Comparison between swim–up and glass wool column filtration of human semen in a gamete intrafallopian transfer program. Sanchez Sarmiento CA, et al. **Arch Androl** 1996 Mar–Apr;36(2):155–60

Heterotopic pregnancy after GIFT managed with expectancy: a case report. Wang YL, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Sep; 58(3):218–22

A randomized clinical trial to evaluate the clinical effects of split– versus single–dose human menopausal gonadotropins in an assisted reproductive technology program. Fox JH, et al. **Fertil Steril** 1996 Mar;65(3):598–602

Incongruent follicular development reduces gamete intrafallopian transfer pregnancy rate. Rombauts L, et al. **Fertil Steril** 1996 Dec;66(6):987–90

Multiple gestation after "high–order" oocyte transfer [letter; comment] Steck T, et al. **Fertil Steril** 1996 Jul;66(1):170–2 . Comment on: Fertil Steril 1995 Jul;64(1):107–10.

Management of a triplet gestation complicated by uterus didelphys. Ginsberg NA, et al. **Fetal Diagn Ther** 1997 Jan–Feb;12(1):59–60

Incidence of spontaneous abortion in clomiphene pregnancies. Dickey RP, et al. **Hum Reprod** 1996 Dec; 11(12):2623–8

Cumulative pregnancy and live birth rates after gamete intra–Fallopian transfer. Rombauts L, et al. **Hum Reprod** 1997 Jun;12(6):1338–42

The influence of endometriosis on the success of gamete intrafallopian transfer (GIFT). Chang MY, et al. **J Assist Reprod Genet** 1997 Feb;14(2):76–82

Elevated serum progesterone values at the time of ovulation induction in luteal leuprolide acetate–down–regulated GIFT cycles are associated with decreased clinical pregnancy rates. Randall GW, et al. **J Assist Reprod Genet** 1996 Jul;13(6):459–63

Gamete intrafallopian transfer. Does smoking play a role? Chung PH, et al. **J Reprod Med** 1997 Feb;42(2):65–70

Twin pregnancies conceived by assisted reproductive techniques: maternal and neonatal outcomes. Bernasko J, et al. **Obstet Gynecol** 1997 Mar;89(3):368–72

ADVERSE EFFECTS

Ovarian hyperstimulation syndrome. Tassone M, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):95–9

INSTRUMENTATION

Births after transcervical gamete intrafallopian transfer with a falloposcopic delivery system. Porcu E, et al. **Fertil Steril** 1997 Jun;67(6):1175–7

METHODS

Assisted conception and immunological infertility. Cimino C, et al. **Acta Eur Fertil** 1995 Jan–Feb;26(1):13–20 (46 ref.)

Office laparoscopy under local anesthesia for gamete intrafallopian transfer: technique and tolerance. Milki AA, et al. **Fertil Steril** 1997 Jul;68(1):128–32

Transfer of gametes into the fallopian tubes—is choice of side important? Driscoll GL, et al. **Hum Reprod** 1996 Sep; 11(9):1881–3

The clinical efficacy of gamete intrafallopian transfer by minilaparotomy versus in vitro fertilization and embryo transfer. Sayama M, et al. **J Obstet Gynaecol Res** 1996 Oct; 22(5):409–16

Transcervical gamete and zygote intrafallopian transfer. Does it enhance pregnancy rates in an assisted reproduction program? Hurst BS, et al. **J Reprod Med** 1996 Nov; 41(11):867–70

VETERINARY

Gamete intrafallopian transfer. Carnevale EM. **Vet Clin North Am Equine Pract** 1996 Apr;12(1):47–60 (40 ref.)

GAMETOGENESIS

SksC, a fertilization–related protein kinase in Chlamydomonas, is expressed throughout the cell cycle and gametogenesis, and a phosphorylated form is present in both flagella and cell bodies. Kurvari V, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):45–54

Differential expression of two gamma–tubulin isoforms during gametogenesis and development in Drosophila. Wilson PG, et al. **Dev Biol** 1997 Apr 15;184(2):207–21

Computation of multilocus prior probability of autozygosity for complex inbred pedigrees. Guo SW. **Genet Epidemiol** 1997;14(1):1–15

[Production of Plasmodium falciparum gametocytes: adaptation of a diabolical dissemination process of endemic malaria?] Robert–Gangneux F. **Sante** 1997 Mar–Apr; 7(2):146 **(Fre)**

DRUG EFFECTS

The effects of bistratene A on the development of Plasmodium falciparum in culture. Mann VH, et al. **Int J Parasitol** 1996 Jan;26(1):117–21

Effects of an organophosphorus insecticide (Temephos) on gametogenesis in the leech Hirudinaria manillensis (Hirudinidae). Singhal RN, et al. **J Invertebr Pathol** 1996 Jan;67(1):100–1

GENETICS

H3.3A variant histone mRNA containing an alpha–globin insertion: modulated expression during mouse gametogenesis correlates with meiotic onset. López–Alānón DM, et al. **DNA Cell Biol** 1997 May; 16(5):639–44

Structure and polymorphism of the upstream region of the pfg27/25 gene, transcriptionally regulated in gametocytogenesis of Plasmodium falciparum. Alano P, et al. **Mol Biochem Parasitol** 1996 Aug;79(2):207–17

The mouse Dazla gene encodes a cytoplasmic protein essential for gametogenesis. Ruggiu M, et al. **Nature** 1997 Sep 4;389(6646):73–7

PHYSIOLOGY

Hsp70 expression and function during gametogenesis. Dix DJ. **Cell Stress Chaperones** 1997 Jun;2(2):73–7 (52 ref.)

Reproductive endocrinology of the explosively breeding desert spadefoot toad, Scaphiopus couchii. Harvey LA, et al. **Gen Comp Endocrinol** 1997 Jan;105(1):102–13

Preliminary evidence suggesting variations of GtH 1 and GtH2 mRNA levels at different stages of gonadal development in rainbow trout, Oncorhynchus mykiss. Weil C, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):327–33

Enhanced gametocyte formation by Plasmodium chabaudi in immature erythrocytes: pattern of production, sequestration, and infectivity to mosquitoes. Gautret P, et al. **J Parasitol** 1996 Dec;82(6):900–6

GAMMA–AMINOBUTYRIC ACID see **GABA**

GAMMA–AMINOBUTYRIC ACID AGENTS see **GABA AGENTS**

GAMMA–AMINOBUTYRIC ACID AGONISTS see **GABA AGONISTS**

GAMMA–AMINOBUTYRIC ACID ANTAGONISTS see **GABA ANTAGONISTS**

GAMMA–AMINOBUTYRIC ACID MODULATORS see **GABA MODULATORS**

GAMMA–AMINOBUTYRIC ACID RECEPTORS see **RECEPTORS, GABA**

GAMMA–AMYLASE see **GLUCAN 1,4–ALPHA–GLUCOSIDASE**

GAMMA–BENZENE HEXACHLORIDE see **LINDANE**

GAMMA–BUTYROLACTONE see **4–BUTYROLACTONE**

GAMMA CAMERA IMAGING see **RADIONUCLIDE IMAGING**

GAMMA CAMERAS

Performance study of a miniature gamma ray scintillation vivo probe for tumor localization. Deloar HM, et al. **Ann Nucl Med** 1997 May;11(2):173–81

The role of Compton background and breast compression on cancer detection in scintimammography. Pani R, et al. **Anticancer Res** 1997 May–Jun;17(3B):1645–9

Single tube gamma camera for scintimammography. Pani R, et al. **Anticancer Res** 1997 May–Jun;17(3B):1651–4

Pin–hole collimator, parallax, and the localization of mediastinal parathyroid adenoma. Mavai R, et al. **Clin Nucl Med** 1996 Jul;21(7):527–9

ECAT ART – a continuously rotating PET camera: performance characteristics, initial clinical studies, and installation considerations in a nuclear medicine department. Bailey DL, et al. **Eur J Nucl Med** 1997 Jan; 24(1):6–15

Performing the 75SeHCAT test using a collimated gamma camera [letter; comment] Martin–Comin J, et al. **Eur J Nucl Med** 1996 Jun;23(6):729. Comment on: Eur J Nucl Med 1994 Sep;21(9):988–90.

Imaging guidelines for nuclear cardiology procedures. American Society of Nuclear Cardiology. Instrumentation quality assurance and performance. **J Nucl Cardiol** 1996 May–Jun;3(3):G5–10

First–pass radionuclide angiocardiography with single–crystal gamma cameras. Nichols K, et al. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 1):61–73 (99 ref.)

Evaluation of a multicrystal gamma camera and rotating chair for tomographic studies of the heart. O'Connor MK, et al. **J Nucl Cardiol** 1996 Jul–Aug;3(4):327–33

Energy–based scatter corrections for scintillation camera images of iodine–131. Pollard KR, et al. **J Nucl Med** 1996 Dec;37(12):2030–7

PET imaging using gamma camera systems: a review. Jarritt PH, et al. **Nucl Med Commun** 1996 Sep;17(9):758–66 (13 ref.)

Programmable dynamic line phantom control: an initial assessment of quantitative potential as a gamma camera test tool. Job HM, et al. **Nucl Med Commun** 1996 Oct; 17(10):907–14

Effect of administered activity on precision in the assessment of renal function using gamma camera renography. Moonen M, et al. **Nucl Med Commun** 1997 Apr;18(4):346–51

The virtual gamma camera room. Penrose JM, et al. **Nucl Med Commun** 1996 May;17(5):367–72

Evaluation of a technique for simulation of gamma camera images. Fleming JS. **Phys Med Biol** 1996 Sep;41(9):1855–61

MTF evaluation of a phosphor–coated CCD for x–ray imaging [see comments] Gambaccini M, et al. **Phys Med Biol** 1996 Dec;41(12):2799–806. Comment in: Phys Med Biol 1997 Jun;42(6):1209–10.

A new method for the correction of gamma camera nonuniformity due to spatial distortion. Johnson TK, et al. **Phys Med Biol** 1996 Oct;41(10):2179–88

Components op the flood–field uniformity index in a gamma camera. Tenhunen M, et al. **Phys Med Biol** 1996 Jul; 41(7):1209–16

State of the art in emission tomography equipment. Fabey FH. **Radiographics** 1996 Mar;16(2):409–20

High–energy (511–keV) imaging with the scintillation camera. Patton JA, et al. **Radiographics** 1996 Sep; 16(5):1183–94

Instrument– and computer–related problems and artifacts in nuclear medicine. O'Connor MK. **Semin Nucl Med** 1996 Oct;26(4):256–77 (21 ref.)

[Characterization of the response of hexagonal parallel–hole collimators of scintillation cameras] de Lagrevol R, et al. **Phys Med Biol** 1996 May;41(5):851–63 (Eng. Abstr.) **(Fre)**

[Imaging of strontium–89 uptake with bremsstrahlung using NaI scintillation camera] Narita H, et al. **Kaku Igaku** 1996 Nov;33(11):1207–12 (Eng. Abstr.) **(Jpn)**

[Tumor imaging in nuclear medicine] Uno K, et al. **Nippon Rinsho** 1996 May;54(5):1268–72 (14 ref.) (Eng. Abstr.) **(Jpn)**

[A trial of the clinical use of the Testascan computerized gamma tomograph in neurosurgical pathology] Kalantarov KD, et al. **Med Tekh** 1996 Jan–Feb;(1):18–21 (Eng. Abstr.) **(Rus)**

STANDARDS

Rapid objective measurement of gamma camera resolution using statistical moments. Hander TA, et al. **Med Phys** 1997 Feb;24(2):327–34

BNMS gamma camera/data processor system specification questionnaire [editorial] Hart G, et al. **Nucl Med Commun** 1997 Feb;18(2):95–7

Multicenter trial validation of a camera–based method to measure Tc–99m mercaptoacetyltriglycine, or Tc–99m MAG3, clearance. Taylor A Jr, et al. **Radiology** 1997 Jul; 204(1):47–54

Simulation study of the influence of collimator defects on the uniformity of scintigraphic images. Gantet P, et al. **Phys Med Biol** 1997 Mar;42(3):603–9 (Eng. Abstr.) **(Fre)**

GAMMA–CARBOXYGLUTAMATE see **1–CARBOXYGLUTAMIC ACID**

GAMMA–CARBOXYGLUTAMIC ACID see **1–CARBOXYGLUTAMIC ACID**

GAMMA–CHAIN DISEASE see **HEAVY CHAIN DISEASE**

GAMMA–CYSTATHIONASE see **CYSTATHIONINE GAMMA–LYASE**

GAMMA–ENDORPHIN

BIOSYNTHESIS

Identification of gamma–endorphin–generating enzyme as insulin–degrading enzyme. Safavi A, et al. **Biochemistry** 1996 Nov 12;35(45):14318–25

GAMMA FC RECEPTORS see **RECEPTORS, IGG**

GAMMA–GLOBIN see **GLOBIN**

GAMMA GLOBULIN, 7S see **IGG**

GAMMA GLOBULIN, 19S see **IGM**

GAMMA–GLOBULINS

Intravenous gammaglobulin therapy of Satoyoshi syndrome. Arita J, et al. **Brain Dev** 1996 Sep–Oct;18(5):409–11

Temporary improvement of neurological symptoms with gammaglobulin therapy in a boy with adrenoleukodystrophy. Oka A, et al. **Brain Dev** 1996

Mar-Apr;18(2):119-21

ADMINISTRATION & DOSAGE

Intravenous gamma globulin in refractory thrombotic thrombocytopenic purpura. Nosari A, et al. **Acta Haematol** 1996;96(4):255-7

Hemophagocytic syndrome responding to high-dose gammaglobulin as presenting feature of sarcoidosis [letter] Balduini CL, et al. **Am J Hematol** 1997 Jan;54(1):88-9

Double-blind randomized controlled trial to assess the efficacy of intravenous gammaglobulin for the management of chronic fatigue syndrome in adolescents. Rowe KS. **J Psychiatr Res** 1997 Jan-Feb;31(1):133-47

[Aged patient with virus-associated hemophagocytic syndrome successfully treated with large dose gamma-globulin therapy] Koda K, et al. **Nippon Naika Gakkai Zasshi** 1996 May 10;85(5):763-4 **(Jpn)**

[Synergistic action of penicillin and immunoglobulin for intravenous (IVIG) use] Bucholc B, et al. **Med Dosw Mikrobiol** 1996;48(3-4):201-10 (Eng. Abstr.) **(Pol)**

ANALYSIS

Quantitative comparison between serum components and somatic cells in bovine quarter milk. Nagatomo H, et al. **J Vet Med Sci** 1996 Nov;58(11):1121-3

BIOSYNTHESIS

Expression of erythroid-specific genes in megakaryoblastic disorders. Ito E, et al. **Leuk Lymphoma** 1996 Nov; 23(5-6):545-50 (55 ref.)

CHEMISTRY

High efficiency photolabeling of human serum albumin and human gamma-globulin with [14C]methyl 4-azido-2,3,5,6-tetrafluorobenzoate. Pandurangi RS, et al. **Bioconjug Chem** 1995 Sep-Oct;6(5):630-4

Softening temperature of lyophilized bovine serum albumin and gamma-globulin as measured by spin-spin relaxation time of protein protons. Yoshioka S, et al. **J Pharm Sci** 1997 Apr;86(4):470-4

Dependence of the molecular mobility and protein stability of freeze-dried gamma-globulin formulations on the molecular weight of dextran. Yoshioka S, et al. **Pharm Res** 1997 Jun;14(6):736-41

Determination of molecular mobility of lyophilized bovine serum albumin and gamma-globulin by solid-state 1H NMR and relation to aggregation-susceptibility. Yoshioka S, et al. **Pharm Res** 1996 Jun;13(6):926-30

DIAGNOSTIC USE

[The diagnostic potentials of the method for the intradermal administration of denatured gamma-globulin in coniotuberculosis of the intrathoracic lymph nodes] Chugaev IuP, et al. **Probl Tuberk** 1996;(4):16-7 (Eng. Abstr.) **(Rus)**

GENETICS

Maximal gamma-globin expression in the compound heterozygous state for -175G gamma HPFH and beta degree 39 nonsense thalassaemia: a case study. Pistidda P, et al. **Eur J Haematol** 1997 May;58(5):320-5

IMMUNOLOGY

Induction of tolerance to human gamma-globulin in FcR gamma- and Fc gammaRII-deficient mice. Whitmer KJ, et al. **J Immunol** 1997 Jul 15;159(2):644-9

Improved graft survival in 100 retransplant recipients following AHG-negative crossmatching. Kerman RH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1451-3

[Evaluation of antitoxin and antibacterial activity of human preparations of normal immunoglobulin. I. Level of tetanus antitoxin in preparations of IMIG and IVIG] Zakrzewska A, et al. **Przegl Epidemiol** 1995;49(4):381-4 (Eng. Abstr.) **(Pol)**

[Properties of free and hidden natural antibodies, reacting with DNA and cardiolipin] Lekakh IV, et al. **Mol Biol (Mosk)** 1997 Jan-Feb;31(1):176-9 **(Rus)**

METABOLISM

Non-covalent associations of proteins in plasma: self-, mixed fibrin(ogen), mixed protein-non-protein associations. London M. **Clin Biochem** 1997 Mar;30(2):83-9

Adsorption of plasma proteins to DMAA hydrogels obtained by ionizing radiation and its relationship with blood compatibility. de Queiroz AA, et al. **J Biomater Sci Polym Ed** 1997;8(5):335-47

PHARMACOLOGY

The actions of polynucleotides on effector stage cloned murine T-helper cells differ in each subset and depend on antigen concentration. Jyonouchi H, et al. **J Nutr** 1997 Mar; 127(3):411-7

Dermatoglyphics in offspring of women given gamma globulin prophylaxis during pregnancy. Ross LJ. **Teratology** 1996 May;53(5):285-91

[The mechanisms of the interaction of contrast media with serum albumin and gamma-globulin studied by means of fluorescence extinction and equilibrium dialysis] Shabunin IV, et al. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):43-6 (Eng. Abstr.) **(Rus)**

SUPPLY & DISTRIBUTION

Mothers at risk of alloimmunization to the Rh (D) antigen and availability of gamma-globulin at the Mexican Institute of Social Security. Zavala C, et al. **Arch Med Res** 1996 Autumn;27(3):373-6

THERAPEUTIC USE

High-dose gamma-globulin responsive haemolysis due to cytomegalovirus in an immunocompetent adult [letter; comment] Juneja SK, et al. **Br J Haematol** 1996 Nov; 95(2):433-5. Comment on: Br J Haematol 1996 Jan;92(1):218-20.

Double-blind randomized controlled trial to assess the efficacy of intravenous gammaglobulin for the management of chronic fatigue syndrome in adolescents. Rowe KS. **J Psychiatr Res** 1997 Jan-Feb;31(1):133-47

Prevention and treatment of experimental autoimmune myasthenia gravis with anti-rabbit thymocyte serum and gammaglobulin in rabbits. Scelsa S, et al. **Pathobiology** 1995;63(3):168-74

GAMMA-GLUTAMYL CARBOXYPEPTIDASE see **PTEROYL POLYGLUTAMATE HYDROLASE**

GAMMA-GLUTAMYL-CYSTEINE SYNTHETASE

ANTAGONISTS & INHIBITORS

Aggravation of polycystic kidney disease in Han:SPRD rats by buthionine sulfoximine. Torres VE, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1283-91

BIOSYNTHESIS

In seedlings of the heavy metal accumulator Brassica juncea Cu2+ differentially affects transcript amounts for gamma-glutamylcysteine synthetase (gamma-ECS) and metallothionein (MT2). Schäfer HJ, et al. **FEBS Lett** 1997 Mar 10;404(2-3):216-20

Regulation of gamma-glutamylcysteine synthetase activity by nerve growth factor. Pan Z, et al. **Int J Dev Neurosci** 1996 Aug;14(5):559-66

Cloning/brain localization of mouse glutamylcysteine synthetase heavy chain mRNA. Kang Y, et al. **Neuroreport** 1997 May 27;8(8):2053-60

DRUG EFFECTS

Induction of gamma-glutamylcysteine synthetase by cigarette smoke is associated with AP-1 in human alveolar epithelial cells. Rahman I, et al. **FEBS Lett** 1996 Oct 28;396(1):21-5

GENETICS

Increased transcription of the regulatory subunit of gamma-glutamylcysteine synthetase in rat lung epithelial L2 cells exposed to oxidative stress or glutathione depletion. Tian L, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):126-33

Transcriptional regulation of gamma-glutamylcysteine synthetase-heavy subunit by oxidants in human alveolar epithelial cells. Rahman I, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):832-7

Expression of glutathione and gamma-glutamylcysteine synthetase mRNA is Jun dependent. Sekhar KR, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):588-93

Proximal 5'-flanking sequence of the human gamma-glutamylcysteine synthetase heavy subunit gene is involved in cisplatin-induced transcriptional up-regulation in a lung cancer cell line SBC-3. Tomonari A, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):616-21

Identification of cis-acting DNA elements of the human gamma-glutamylcysteine synthetase heavy subunit gene. Tomonari A, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):522-7

Molecular cloning and sequencing of the cDNA encoding mouse glutamate-cysteine ligase regulatory subunit. Reid LL, et al. **Biochim Biophys Acta** 1997 Aug 7;1353(2):107-10

Molecular cloning and sequencing of the cDNA encoding the catalytic subunit of mouse glutamate-cysteine ligase. Reid LL, et al. **Biochim Biophys Acta** 1997 Jun 26; 1352(3):233-7

Glutathione content but not gamma glutamyl cysteine synthetase mRNA expression predicts cisplatin resistance in head and neck cancer cell lines. Newkirk K, et al. **Cancer Chemother Pharmacol** 1997;40(1):75-80

Assignment of the human gene (GLCLR) that encodes the regulatory subunit of gamma-glutamylcysteine synthetase to chromosome 1p21. Sierra-Rivera E, et al. **Cytogenet Cell Genet** 1996;72(2-3):252-4

Genetic mapping of GLCLC, the human gene encoding the catalytic subunit of gamma-glutamyl-cysteine synthetase, to chromosome band 6p12 and characterization of a polymorphic trinucleotide repeat within its 5' untranslated region. Walsh AC, et al. **Cytogenet Cell Genet** 1996; 75(1):14-6

Co-amplification of the gamma-glutamylcysteine synthetase gene gsh1 and of the ABC transporter gene pgpA in arsenite-resistant Leishmania tarentolae. Grondin K, et al. **EMBO J** 1997 Jun 2;16(11):3057-65

apd1+, a gene required for red pigment formation in ade6 mutants of Schizosaccharomyces pombe, encodes an enzyme required for glutathione biosynthesis: a role for glutathione and a glutathione-conjugate pump. Chaudhuri B, et al. **Genetics** 1997 Jan;145(1):75-83

Mapping of the glutamate-cysteine ligase catalytic subunit gene (GLCLC) to human chromosome 6p12 and mouse chromosome 9D-E and of the regulatory subunit gene (GLCLR) to human chromosome 1p21-p22 and mouse chromosome 3H1-3. Tsuchiya K, et al. **Genomics** 1995 Dec 10;30(3):630-2

Constitutive and beta-naphthoflavone-induced expression of the human gamma-glutamylcysteine synthetase heavy subunit gene is regulated by a distal antioxidant response element/TRE sequence. Mulcahy RT, et al. **J Biol Chem** 1997 Mar 14;272(11):7445-54

Enhanced expression of gamma-glutamylcysteine synthetase and glutathione S-transferase genes in cisplatin-resistant bladder cancer cells with multidrug resistance phenotype. Kotoh S, et al. **J Urol** 1997 Mar;157(3):1054-8

The gene for gamma-glutamylcysteine synthetase from Thiobacillus ferrooxidans has low homology to its Escherichia coli equivalent and is linked to the gene for citrate synthase. Powles R, et al. **Microbiology** 1996 Sep; 142 (Pt 9):2543-8

Amino acid-dependent regulation of the Saccharomyces cerevisiae GSH1 gene by hydrogen peroxide. Stephen DW, et al. **Mol Microbiol** 1997 Jan;23(2):203-10

Cloning/brain localization of mouse glutamylcysteine synthetase heavy chain mRNA. Kang Y, et al. **Neuroreport** 1997 May 27;8(8):2053-60

Inhibition by 5-fluorouracil of ERCC1 and gamma-glutamylcysteine synthetase messenger RNA expression in a cisplatin-resistant HST-1 human squamous carcinoma cell line. Fujishima H, et al. **Oncol Res** 1997; 9(4):167-72

Alteration of transcriptional and post-transcriptional expression of gamma-glutamylcysteine synthetase by diethyl maleate. Sekhar KR, et al. **Radiat Res** 1997 May; 147(5):592-7

Localization of gamma-glutamylcysteine synthetase mRNA expression in mouse brain following methylmercury treatment using reverse transcription in situ PCR amplification. Li S, et al. **Toxicol Appl Pharmacol** 1996 Sep; 140(1):180-7

[gamma-Glutamylcysteine synthetase and chemosensitivity] Nishio K, et al. **Gan To Kagaku Ryoho** 1997 Feb; 24(4):418-23 (10 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

Elevated hepatic gamma-glutamylcysteine synthetase activity and abnormal sulfate levels in liver and muscle tissue may explain abnormal cysteine and glutathione levels in SIV-infected rhesus macaques. Gross A, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20;12(17):1639-41

Regulation of gamma-glutamylcysteine synthetase by protein phosphorylation. Sun WM, et al. **Biochem J** 1996 Nov 15; 320 (Pt 1):321-8

Induction of gamma-glutamylcysteine synthetase by cigarette smoke is associated with AP-1 in human alveolar epithelial cells. Rahman I, et al. **FEBS Lett** 1996 Oct 28;396(1):21-5

Alterations in renal cellular glutathione metabolism after in vivo administration of a subtoxic dose of mercuric chloride. Lash LH, et al. **J Biochem Toxicol** 1996;11(1):1-9

Altered expression of gamma-glutamylcysteine synthetase, metallothionein and topoisomerase I or II during acquisition of drug resistance to cisplatin in human ovarian cancer cells. Kikuchi Y, et al. **Jpn J Cancer Res** 1997 Feb; 88(2):213-7

Lipid peroxides, glutathione, gamma-glutamylcysteine synthetase and gamma-glutamyltranspeptidase activities in several tissues of rats following water-immersion stress. Alptekin N, et al. **Pharmacol Res** 1996 Sep-Oct; 34(3-4):167-9

Localization by in situ hybridization of gamma-glutamylcysteine synthetase mRNA expression in rat kidney following acute methylmercury treatment. Li S, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):59-67

GAMMA-GLUTAMYL HYDROLASE see **PTEROYL POLYGLUTAMATE HYDROLASE**

GAMMA-GLUTAMYLCYCLOTRANSFERASE

BLOOD

[Evaluation of the combined assay of alpha-feto protein and gamma-glutamyl transpeptidase isoenzyme II in the diagnosis of primary hepatic carcinoma] Ding S, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):690-2 (Eng. Abstr.) **(Chi)**

GAMMA-GLUTAMYLTRANSFERASE

ANALYSIS

Gamma-glutamyltranspeptidase activity in human ovarian

carcinoma. Paolicchi A, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3053-8

Renal cell tumours in mice: electron microscopy versus immunohistochemistry. Kondalenko VF, et al. **Exp Toxicol Pathol** 1997 Feb;49(1-2):129-34

Microglial cells induce cytotoxic effects toward colon carcinoma cells: measurement of tumor cytotoxicity with a gamma-glutamyl transpeptidase assay. Murata J, et al. **Int J Cancer** 1997 Jan 17;70(2):169-74

Immunohistochemical detection of gamma-glutamyl transpeptidase in normal human tissue. Hanigan MH, et al. **J Histochem Cytochem** 1996 Oct;44(10):1101-8

Developmental study of ultrastructural and biochemical changes in isolated chick brain microvessels. Nico B, et al. **Microvasc Res** 1997 Jan;53(1):79-91

gamma-Glutamyl transpeptidase in normal and neoplastic prostate glands. Frierson HF Jr, et al. **Mod Pathol** 1997 Jan;10(1):1-6

No inhibition of gamma-glutamyl transpeptidase-positive foci by vitamin E with or without phenobarbital. Lii CK, et al. **Nutr Cancer** 1997;27(2):200-5

Assay of gamma-glutamyl transpeptidase activity in amniotic fluid offers a possible prenatal diagnosis of biliary atresia in the rat model. Hosoda Y, et al. **Prenat Diagn** 1997 Jan; 17(1):9-12

ANTAGONISTS & INHIBITORS

Cisplatin nephrotoxicity: inhibition of gamma-glutamyl transpeptidase blocks the nephrotoxicity of cisplatin without reducing platinum concentrations in the kidney. Hanigan MH, et al. **Am J Obstet Gynecol** 1996 Aug; 175(2):270-3; discussion 273-4

Synthesis and activity of the glutathione analogue gamma-(L-gamma-oxaglutamyl)-L-cysteinyl-glycine. Calcagni A, et al. **Arch Pharm (Weinheim)** 1996 Nov; 329(11):498-502

Prevention of diabetes in the spontaneously diabetic BB rat by the glutamine antimetabolite acivicin. Misra M, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):163-72

Gamma-glutamyl peptides and related amino acids in rat hippocampus in vitro: effect of depolarization and gamma-glutamyl transpeptidase inhibition. Li X, et al. **Neurochem Int** 1996 Aug;29(2):121-8

The gamma-glutamyl transpeptidase inhibitor acivicin preserves glutathione released by astroglial cells in culture. Dringen R, et al. **Neurochem Res** 1997 Jun;22(6):727-33

BIOSYNTHESIS

A 346-base pair region of the mouse gamma-glutamyl transpeptidase type II promoter contains sufficient cis-acting elements for kidney-restricted expression in transgenic mice. Sepulveda AR, et al. **J Biol Chem** 1997 May 2;272(18):11959-67

Induction of gamma-glutamyl transpeptidase mRNA by platinum complexes in a human ovarian carcinoma cell line. el-akawi Z, et al. **Oncol Res** 1996;8(10-11):415-23

BLOOD

The "WAM" score: sensitivity and specificity of a user friendly biological screening test for alcohol problems in trauma patients. Nilssen O, et al. **Addiction** 1996 Feb; 91(2):255-62

Serum gamma-glutamyl-transpeptidase isoforms in alcoholic liver disease. Bellini M, et al. **Alcohol Alcohol** 1997 May-Jun;32(3):259-66

New ways to use biochemical indicators of alcohol abuse to regrant licences in a fairer manner after drunken driving in Germany. Iffland R. **Alcohol Alcohol** 1996 Nov; 31(6):619-20

Evaluation of alcohol consumption level in drivers when regranting licences after driving while intoxicated in France. Mercier-Guyon C. **Alcohol Alcohol** 1996 Nov; 31(6):617-8

Comparative sensitivity of carbohydrate-deficient transferrin and gamma-glutamyltransferase [letter; comment] Rosalki SB. **Alcohol Alcohol** 1996 May;31(3):305-6. Comment on: Alcohol Alcohol 1995 Mar;30(2):171-6.

Carbohydrate-deficient transferrin as an indicator of drinking status during a treatment outcome study. Anton RF, et al. **Alcohol Clin Exp Res** 1996 Aug;20(5):841-6

Carbohydrate-deficient transferrin and gamma-glutamyl transferase levels during disulfiram therapy. Helander A, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1202-5

Superiority of carbohydrate-deficient transferrin to gamma-glutamyltransferase in detecting relapse in alcoholism. Schmidt LG, et al. **Am J Psychiatry** 1997 Jan; 154(1):75-80

Stability of gamma-glutamyltransferase activity in calf sera after refrigerated or frozen storage. Muller F, et al. **Am J Vet Res** 1997 Apr;58(4):354-5

The effects of cigarette smoking and alcohol consumption on serum liver enzyme activities: a dose-related study in men. Whitehead TP, et al. **Ann Clin Biochem** 1996 Nov; 33 (Pt 6):530-5

Fetal gammaglutamyl transferase activity: clinical implication in fetal medicine. Mirlesse V, et al. **Biol Neonate** 1996; 70(4):193-8

Multienzyme control serum (Seraclear-HE) containing human enzymes from established cell lines and other sources. 3: Evaluation as candidate working enzyme reference material for gamma-glutamyltransferase. Eto A, et al. **Clin Chem** 1996 Dec;42(12):2008-14

Clearance of circulating gamma-glutamyltransferase by the asialoglycoprotein receptor. Enzyme forms with different sialic acid content are eliminated at different clearance rates and without apparent desialylation. Mortensen B, et al. **Clin Chim Acta** 1997 Feb 3;258(1):47-58

Serum gamma-glutamyl transferase levels and blood pressure falls after alcohol moderation. Yamada Y, et al. **Clin Exp Hypertens** 1997 Apr;19(3):249-68

gamma-Glutamyltransferase and serum proteins in buffalo calves following colostral ingestion. Lombardi P, et al. **Eur J Clin Chem Clin Biochem** 1996 Dec;34(12):965-8

Distribution and population determinants of gamma-glutamyltransferase in a random sample of Sardinian inhabitants. 'ATS-SARDEGNA' Research Group. Pintus F, et al. **Eur J Epidemiol** 1996 Feb;12(1):71-6

Different starting times of alpha-tocopherol and gamma-tocotrienol supplementation and tumor marker enzyme activities in the rat chemically induced with cancer. Makpol S, et al. **Gen Pharmacol** 1997 Apr;28(4):589-92

Divergent concentrations of plasma metabolites in swine selected for seven generations for high or low plasma total cholesterol. Pond WG, et al. **J Anim Sci** 1997 Feb; 75(2):311-6

The role of gamma-glutamyl transpeptidase in the preoperative metastatic evaluation of renal cell carcinoma. Sandock DS, et al. **J Urol** 1997 Mar;157(3):798-9

A new hepatitis C virus-like flavivirus in patients with cryptogenic liver disease associated with elevated GGT and alkaline phosphatase serum levels. Colombatto P, et al. **J Viral Hepat** 1997;4 Suppl 1:55-60

Hepatitis G virus RNA in the serum of patients with elevated gamma glutamyl transpeptidase and alkaline phosphatase: a specific liver disease? [corrected] [published erratum appears in J Viral Hepat 1997 Mar;4(2):143] Colombatto P, et al. **J Viral Hepat** 1996 Nov;3(6):301-6

Distribution, determinants, and prognostic value of gamma-glutamyltransferase for all-cause mortality in a cohort of construction workers from southern Germany. Brenner H, et al. **Prev Med** 1997 May-Jun;26(3):305-10

Basic haematological parameters, serum gamma-glutamyl-transferase activity, and erythrocyte folate and serum vitamin B12 levels during carbamazepine and oxcarbazepine therapy. Isojärvi JI, et al. **Seizure** 1997 Jun;6(3):207-11

Evidence for a relationship between plasminogen activator inhibitor-1 and gamma glutamyl transferase. Bastard JP, et al. **Thromb Res** 1996 Jan 15;81(2):271-5

[Procedure to follow in isolated increase of serum activity of gamma-glutamyl transpeptidase] Boige V, et al. **Gastroenterol Clin Biol** 1997;21(3):209-16 (72 ref.) **(Fre)**

[Respective value of serum activity of alkaline phosphatase, gamma-glutamyl transpeptidase and 5'-nucleotidase in the diagnosis of intra- and extrahepatic cholestasis (letter)] Sapey T, et al. **Gastroenterol Clin Biol** 1997;21(4):339-40 **(Fre)**

[Examination of the total protein concentration and gamma-glutamyltransferase (gamma-GT) in calves during the first 14 days of life and their significance for predictions of health status in the first two postnatal weeks] Steffen S, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Aug; 104(8):272-6 (Eng. Abstr.) **(Ger)**

[Changes in the activity of gamma-glutamyltransferase and cholinesterase in the blood of patients with opisthorchiasis at different phases of the disease] Bakshtanovskaia IV, et al. **Med Parazitol (Mosk)** 1996 Oct-Dec;(4):33-5 (Eng. Abstr.) **(Rus)**

[Changes in gamma-glutamyltransferase activity in diseases of the liver and biliary tract] Vŭrbanov G, et al. **Ter Arkh** 1993;65(2):82-5 (50 ref.) **(Rus)**

[Use of gamma glutamyltransferase isoenzymes in the differentiation of chronic liver diseases] Turecký L, et al. **Bratisl Lek Listy** 1997 Mar;98(3):137-40 (Eng. Abstr.) **(Slo)**

[Diagnostic efficiency of biological markers of alcohol consumption for the detection of excessive drinkers] Rubio C, et al. **An Med Interna** 1996 Jun;13(6):274-8 (Eng. Abstr.) **(Spa)**

CHEMISTRY

gamma-Glutamyltransferase from the outer cell envelope of Treponema denticola ATCC 35405. Mäkinen PL, et al. **Infect Immun** 1997 Feb;65(2):685-91

A preliminary description of the crystal structure of gamma-glutamyltranspeptidase from E. coli K-12. Sakai H, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):26-8

A major allergen of lymphatic filarial nematodes is a parasite homolog of the gamma-glutamyl transpeptidase. Lobos E, et al. **Mol Med** 1996 Nov;2(6):712-24

DEFICIENCY

Metabolism of leukotriene C4 in gamma-glutamyl transpeptidase-deficient mice. Carter BZ, et al. **J Biol Chem** 1997 May 9;272(19):12305-10

Mice with genetic gamma-glutamyl transpeptidase deficiency exhibit glutathionuria, severe growth failure, reduced life spans, and infertility. Harding CO, et al. **J Biol Chem** 1997 May 9;272(19):12560-7

Growth retardation and cysteine deficiency in gamma-glutamyl transpeptidase-deficient mice. Lieberman MW, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):7923-6

DRUG EFFECTS

The effect of erythritol on the stability of gamma-glutamyl transpeptidase and N-acetyl glucosaminidase in human urine. Loeb WF, et al. **Toxicol Pathol** 1997 May-Jun; 25(3):264-7

Effect of gossypol on hepatic and serum gamma-glutamyltransferase activity in rats. Deoras DP, et al. **Vet Res Commun** 1997 Jul;21(5):317-23

GENETICS

Expression of gamma-glutamyl transpeptidase mRNA after depletion of glutathione in rat liver. Moriya S, et al. **Alcohol Alcohol** 1994;29 Suppl 1:107-11

Organization of the 5'-End of the porcine gamma-glutamyl transpeptidase gene and identification of three different mRNAs in the kidney. Schudy A, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):693-700

A specific distal promoter controls gamma-glutamyl transpeptidase gene expression in undifferentiated rat transformed liver cells. Nomura S, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):311-20

Increases in the mRNA levels of gamma-glutamyltransferase and heme oxygenase-1 in the rat lung after ozone exposure. Takahashi Y, et al. **Biochem Pharmacol** 1997 Apr 4; 53(7):1061-4

Identification, expression, and regulation of the transcriptional factor polyomavirus enhancer activator 3, and its putative role in regulating the expression of gamma-glutamyl transpeptidase mRNA-IV in the rat epididymis. Lan ZJ, et al. **Biol Reprod** 1997 Jul;57(1):186-93

Role of copper and ceruloplasmin in oxidative mutagenesis induced by the glutathione-gamma-glutamyl transpeptidase system and by other thiols. Stark AA, et al. **Environ Mol Mutagen** 1997;29(1):63-72

Cloning and expression of a novel type (III) of human gamma-glutamyltransferase truncated mRNA. Leh H, et al. **FEBS Lett** 1996 Oct 7;394(3):258-62

The organization of the gamma-glutamyl transferase genes and other low copy repeats in human chromosome 22q11. Collins JE, et al. **Genome Res** 1997 May;7(5):522-31

Nitrogen dioxide exposure activates gamma-glutamyl transferase gene expression in rat lung. Takahashi Y, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):388-96

IMMUNOLOGY

Immunohistochemical differentiation of metastases of renal carcinomas versus other carcinomas with anti-gamma GT monoclonal antibody 138H11. Kaufmann O, et al. **Histopathology** 1997 Jul;31(1):31-7

Hybridomas reveal shared immunodominant epitopes of gamma-glutamyltransferase isoforms from human kidney and renal cell carcinoma. Fischer P, et al. **Tumour Biol** 1996;17(6):369-77

ISOLATION & PURIFICATION

Purification and characterization of gamma-glutamyl transpeptidase from Ascaris suum. Hussein AS, et al. **Mol Biochem Parasitol** 1996 Apr;77(1):41-7

METABOLISM

Pre-operative time course changes in liver function tests in biliary atresia: its usefulness in the discrimination of biliary atresia in early infancy. Yamagiwa I, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):506-12

Alteration of glutamyltranspeptidase binding proteins in postmortem brains of heroin addicts. Hashimoto E, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):301A-304A

Alcohol consumption, gamma-glutamyl transpeptidase (GGT), and pulmonary function: a cross-sectional and longitudinal study in working men. Zureik M, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1507-11

Hyperoxia enhances expression of gamma-glutamyl transpeptidase and increases protein S-glutathiolation in rat lung. Knickelbein RG, et al. **Am J Physiol** 1996 Jan; 270(1 Pt 1):L115-22

Ontogeny of gamma-glutamyltransferase in the rat lung. Oakes SM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L739-44

Changes in gamma-glutamyltransferase activity in rat lung tissue, BAL, and type II cells after hyperoxia. Van Klaveren RJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L537-47

Glutamate transport and not cellular content modulates paracellular permeability in LLC-PK1-F+ cells. Welbourne TC, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E367-70

S-Nitrosoglutathione as a substrate for gamma-glutamyl transpeptidase. Hogg N, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):477-81

The role of chelators in the catalysis of glutathione-gamma-glutamyl transpeptidase-dependent lipid peroxidation by transition metals. Zalit I, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1123-33

Kidney and urine enzyme activity in experimental gentamicin nephrotoxicity in the Sprague-Dawley rat. Brown D, et al. **Biochem Soc Trans** 1996 May;24(2):317S

The effects of bile salts on the kinetic properties of enzymes used in the diagnosis of liver and kidney damage. Morgan

WA, et al. **Biochem Soc Trans** 1997 Feb;25(1):76S

Effect of orally administered glutathione on glutathione levels in some organs of rats: role of specific transporters. Favilli F, et al. **Br J Nutr** 1997 Aug;78(2):293–300

Differential effects of protein restriction on gamma–glutamyltranspeptidase [EC 2.3.2.2] activity in young and mature rats. de–Oliveira IM, et al. **Braz J Med Biol Res** 1996 Feb;29(2):213–7

Alteration in gamma–glutamyl transpeptidase activity and messenger RNA of human prostate carcinoma cells by androgen. Ripple MO, et al. **Cancer Res** 1997 Jun 15; 57(12):2428–33

Promotion of glutathione–gamma–glutamyl transpeptidase–dependent lipid peroxidation by copper and ceruloplasmin: the requirement for iron and the effects of antioxidants and antioxidant enzymes. Glass GA, et al. **Environ Mol Mutagen** 1997;29(1):73–80

3–hydroxykynurenine transamination leads to the formation of the fluorescent substances in human lenses. Malina HZ, et al. **Eur J Ophthalmol** 1996 Jul–Sep;6(3):250–6

Decrease in gamma–glutamyltransferase activity in rat type II cells exposed in vitro to hyperoxia: effects of the 21–aminosteroid U–74389G. van Klaveren RJ, et al. **Exp Lung Res** 1997 Jul–Aug;23(4):347–59

Influence of vitamin E treatment on glutathione system after renal ischemia in immature and adult rats. Fleck C, et al. **Exp Toxicol Pathol** 1997 Feb;49(1–2):81–6

gamma–Glutamyl transpeptidase–dependent lipid peroxidation in isolated hepatocytes and HepG2 hepatoma cells. Paolicchi A, et al. **Free Radic Biol Med** 1997; 22(5):853–60

Increase in gamma–glutamyltransferase by glutathione depletion in rat type II pneumocytes. van Klaveren RJ, et al. **Free Radic Biol Med** 1997;22(3):525–34

Analysis of kinetic properties of gamma–glutamyl transpeptidase from rat kidney. Dvořáková L, et al. **Gen Physiol Biophys** 1996 Oct;15(5):403–13

Selective colocalization of lipid peroxidation and protein thiol loss in chemically induced hepatic preneoplastic lesions: the role of gamma–glutamyltranspeptidase activity. Pompella A, et al. **Histochem Cell Biol** 1996 Sep; 106(3):275–82

Lack of functional correlation between gamma–glutamyl transpeptidase and amino acid transport in the lactating mouse mammary gland. Kansal R, et al. **Indian J Exp Biol** 1996 Mar;34(3):267–9

The cell–specific anti–proliferative effect of reduced glutathione is mediated by gamma–glutamyl transpeptidase–dependent extracellular pro–oxidant reactions. Perego P, et al. **Int J Cancer** 1997 Apr 10; 71(2):246–50

Abnormal liver enzymes in outpatients with eating disorders. Mickley D, et al. **Int J Eat Disord** 1996 Nov;20(3):325–9

Alcohol consumption and serum liver–derived enzymes in a Danish population aged 30–50 years. Steffensen FH, et al. **Int J Epidemiol** 1997 Feb;26(1):92–9

Effects of substitutions of the conserved histidine residues in human gamma–glutamyl transpeptidase. Ikeda Y, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1166–70

An important role for glutathione and gamma–glutamyltranspeptidase in the supply of growth requirements during nitrogen starvation of the yeast Saccharomyces cerevisiae. Mehdi K, et al. **Microbiology** 1997 Jun;143 (Pt 6):1885–9

Purification and characterization of gamma–glutamyl transpeptidase from Ascaris suum. Hussein AS, et al. **Mol Biochem Parasitol** 1996 Apr;77(1):41–7

1,25–Dihydroxyvitamin D3 regulates gamma 1 transpeptidase activity in rat brain. Garcion E, et al. **Neurosci Lett** 1996 Oct 4;216(3):183–6

A lipid lowering drug (bezafibrate) has a favorable effect on liver enzymes (Al–P and gamma–GTP). Fukuo Y, et al. **Nippon Ika Daigaku Zasshi** 1996 Oct;63(5):424–30

Lipid peroxides, glutathione, gamma–glutamylcysteine synthetase and gamma–glutamyltranspeptidase activities in several tissues of rats following water–immersion stress. Alptekin N, et al. **Pharmacol Res** 1996 Sep–Oct; 34(3–4):167–9

The relationship between enzymuria and kidney enzyme activities in experimental gentamicin nephrotoxicity. Whiting PH, et al. **Ren Fail** 1996 Nov;18(6):899–909

[Activity of glutamate dehydrogenase, gamma–glutamyltranspeptidase and creatine kinase in saliva in gingivitis] Petrovich IuA, et al. **Patol Fiziol Eksp Ter** 1996 Oct–Dec;(4):28–30 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Clearance of circulating gamma–glutamyltransferase by the asialoglycoprotein receptor. Enzyme forms with different sialic acid content are eliminated at different clearance rates and without apparent desialylation. Mortensen B, et al. **Clin Chim Acta** 1997 Feb 3;258(1):47–58

PHARMACOLOGY

Leukotriene C4 inhibits ciliary activity in the presence of gamma–glutamyl transpeptidase. Ganbo T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L216–24

gamma–Glutamyl transpeptidase of spermatozoa may decrease oocyte glutathione content at fertilization in pigs. Funahashi H, et al. **Mol Reprod Dev** 1996 Dec;45(4):485–90

PHYSIOLOGY

Formation of catechol estrogen glutathione conjugates and gamma–glutamyl transpeptidase–dependent nephrotoxicity of 17beta–estradiol in the golden Syrian hamster. Butterworth M, et al. **Carcinogenesis** 1997 Mar;18(3):561–7

URINE

Urinary gamma–glutamyl transferase activity in rats with nonsteroidal anti–inflammatory drug–induced nephrotoxicity. Kocaoğlu S, et al. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):73–7

Age dependency of infradian rhythms in enzymuria of female volunteers. Gerasch A, et al. **Eur J Clin Chem Clin Biochem** 1997 Apr;35(4):281–6

Enzymuria as early marker of interstitial nephritis. Neimark A, et al. **Int Urol Nephrol** 1997;29(2):137–40

Evaluation of urine gamma–glutamyl transpeptidase–to–creatinine ratio as a diagnostic tool in an experimental model of aminoglycoside–induced acute renal failure in the dog. Rivers BJ, et al. **J Am Anim Hosp Assoc** 1996 Jul–Aug;32(4):323–36

Changes in urinary enzyme activity and histochemical findings in experimental tubular injury induced by gold sodium thiomalate. Ogura T, et al. **J Med** 1996; 27(1–2):41–55

The effect of erythritol on the stability of gamma–glutamyl transpeptidase and N–acetyl glucosaminidase in human urine. Loeb WF, et al. **Toxicol Pathol** 1997 May–Jun; 25(3):264–7

GAMMA–HYDROXYBUTYRATE see **SODIUM OXYBATE**

GAMMA–IMINO–ATP see **ADENYLYL IMIDODIPHOSPHATE**

GAMMA IMMUNOGLOBULINS see **IMMUNOGLOBULINS, GAMMA–CHAIN**

GAMMA–INTERFERON see **INTERFERON TYPE II**

GAMMA–INTERFERON, RECOMBINANT see **INTERFERON–GAMMA, RECOMBINANT**

GAMMA KNIFE RADIOSURGERY see **RADIOSURGERY**

GAMMA–LINOLENIC ACID

ADMINISTRATION & DOSAGE

Cyclic vs continuous enteral feeding with omega–3 and gamma–linolenic fatty acids: effects on modulation of phospholipid fatty acids in rat lung and liver immune cells. Palombo JD, et al. **JPEN J Parenter Enteral Nutr** 1997 May–Jun;21(3):123–32

[Premenstrual syndrome: does gamma–linolenic acid help? (news)] Küpper C. **Fortschr Med** 1997 Feb 28;115(6):9, 12 **(Ger)**

[Effect of dietary supplementation with gamma–linolenic acid on the growth of a human lung carcinoma implanted in nude mice] de Bravo MG, et al. **Medicina (B Aires)** 1995; 55(6):670–4 (Eng. Abstr.) **(Spa)**

ANALOGS & DERIVATIVES

Comparison of the effects of ascorbyl gamma–linolenic acid and gamma–linolenic acid in the correction of neurovascular deficits in diabetic rats. Cameron NE, et al. **Diabetologia** 1996 Sep;39(9):1047–54

ANALYSIS

Capillary supercritical fluid chromatography––atmospheric pressure chemical ionization mass spectrometry of gamma– and alpha–linolenic acid containing triacylglycerols in berry oils. Manninen P, et al. **Lipids** 1997 Aug;32(8):825–31

CHEMISTRY

Comparison of the grignard deacylation TLC and HPLC methods and high resolution 13C–NMR for the sn–2 positional analysis of triacylglycerols containing gamma–linolenic acid. Redden PR, et al. **Chem Phys Lipids** 1996 Jan 25;79(1):9–19

METABOLISM

Interaction between oxidative stress and gamma–linolenic acid in impaired neurovascular function of diabetic rats. Cameron NE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E471–6

Inhibition of neutrophil respiratory burst and cytokine priming by gamma–linolenic acid [letter; comment] Utsunomiya T. **Br J Surg** 1997 Mar;84(3):426. Comment on: Br J Surg 1996 May;83(5):659–64.

Dietary alteration of dihomogamma–linolenic acid/arachidonic acid ratio in a rat 5/6–renal–ablation model. The Nutrition & Kidney Disease Research Group. Ingram AJ, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1024–31

Dietary supplementation with gamma–linolenic acid alters fatty acid content and eicosanoid production in healthy humans. Johnson MM, et al. **J Nutr** 1997 Aug; 127(8):1435–44

PHARMACOKINETICS

In vivo and in vitro biotransformation of the lithium salt of gamma–linolenic acid by three human carcinomas. de Antueno R, et al. **Br J Cancer** 1997;75(12):1812–8

PHARMACOLOGY

Effects of dietary gamma–linolenic acid on the tissue phospholipid fatty acid composition and the synthesis of eicosanoids in rats. Quoc KP, et al. **Ann Nutr Metab** 1996; 40(2):99–108

Gamma linolenic acid regulates expression of maspin and the motility of cancer cells. Jiang WG, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):639–44

Effects of gamma–linolenic and eicosapentaenoic acids on blood pressure in SHR. Sasaki S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S306–7

Gammalinolenic acid and dihomogammalinolenic acid suppress the CD3–mediated signal transduction pathway in human T cells. Vassilopoulos D, et al. **Clin Immunol Immunopathol** 1997 Jun;83(3):237–44

Effects of eicosapentaenoic and gamma–linolenic acid on lung permeability and alveolar macrophage eicosanoid synthesis in endotoxic rats. Mancuso P, et al. **Crit Care Med** 1997 Mar;25(3):523–32

Resting blood pressure and cardiovascular reactivity to mental arithmetic in mild hypertensive males supplemented with blackcurrant seed oil. Deferne JL, et al. **J Hum Hypertens** 1996 Aug;10(8):531–7

Growth suppression of hamster flank organs by topical application of gamma–linolenic and other fatty acid inhibitors of 5alpha–reductase. Liang T, et al. **J Invest Dermatol** 1997 Aug;109(2):152–7

Dietary gamma–linolenic acid enhances mouse macrophage–derived prostaglandin E1 which inhibits vascular smooth muscle cell proliferation. Fan YY, et al. **J Nutr** 1997 Sep;127(9):1765–71

The induction of apoptosis in human cervical carcinoma (HeLa) cells by gamma–linolenic acid. de Kock M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):403–11

Gamma linolenic acid regulates gap junction communication in endothelial cells and their interaction with tumour cells. Jiang WG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):307–16

Effects of gamma–linolenic acid and its positional isomer pinolenic acid on immune parameters of brown–Norway rats. Matsuo N, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):223–9

Effects of gamma–linolenic acid and arachidonic acid on cell cycle progression and apoptosis induction in normal and transformed cells. Seegers JC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):271–80

Effects of dietary gamma–linolenic acid–rich borage oil combined with marine fish oils on tissue phospholipid fatty acid composition and production of prostaglandins E and F of the 1–, 2– and 3–series in a marine fish deficient in delta5 fatty acyl desaturase. Tocher DR, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Aug; 57(2):125–34

Effect of n–6 polyunsaturated fatty acids on growth and lipid composition of neoplastic and non–neoplastic canine prostate epithelial cell cultures. Griffiths G, et al. **Prostate** 1997 Apr 1;31(1):29–36

THERAPEUTIC USE

Clinical aspects of the use of gamma linolenic acid in systemic sclerosis. Stainforth JM, et al. **Acta Derm Venereol** 1996 Mar;76(2):144–6

gamma–Linolenic acid treatment of rheumatoid arthritis. A randomized, placebo–controlled trial. Zurier RB, et al. **Arthritis Rheum** 1996 Nov;39(11):1808–17

Prophylactic treatment of migraine with gamma–linolenic and alpha–linolenic acids. Wagner W, et al. **Cephalalgia** 1997 Apr;17(2):127–30; discussion 102

Comparison of the effects of ascorbyl gamma–linolenic acid and gamma–linolenic acid in the correction of neurovascular deficits in diabetic rats. Cameron NE, et al. **Diabetologia** 1996 Sep;39(9):1047–54

gamma–Linolenic acid–containing diet attenuates bleomycin–induced lung fibrosis in hamsters. Ziboh VA, et al. **Lipids** 1997 Jul;32(7):759–67

Effectiveness of natural oils as sources of gamma–linolenic acid to correct peripheral nerve conduction velocity abnormalities in diabetic rats: modulation by thromboxane A2 inhibition. Dines KC, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):159–65

[Gamma–linolenic–acid–rich borage seed oil capsules in children with atopic dermatitis. A placebo–controlled double–blind study] Borrek S, et al. **Klin Padiatr** 1997 May–Jun;209(3):100–4 (Eng. Abstr.) **(Ger)**

GAMMA RAYS

The Epstein–Barr virus gene BHRF1, a homologue of the cellular oncogene Bcl–2, inhibits apoptosis induced by gamma radiation and chemotherapeutic drugs. McCarthy NJ, et al. **Adv Exp Med Biol** 1996;406:83–97

Buffer may be the critical factor in measurement of anti-prothrombin antibody on a gamma-ray-irradiated plate by enzyme-linked immunosorbent assay. Matsuda J, et al. **Am J Hematol** 1996 Dec;53(4):242-4

New technique using room temperature diodes for the direct assessment of internal contamination by low energy gamma-ray emitters. Genicot JL, et al. **Appl Radiat Isot** 1997 Mar;48(3):349-58

Involvement of metallothioneins in regulation of macrophage activity after combined radiation and thermal injury. Khlopovskaya EI, et al. **Biochemistry (Mosc)** 1997 Mar; 62(3):294-6

Does small-dose gamma-ray radiation induce endogenous antioxidant potential in vivo? Kojima S, et al. **Biol Pharm Bull** 1997 Jun;20(6):601-4

Influence of gamma-irradiation sterilization and temperature on the fracture toughness of ultra-high-molecular-weight polyethylene. Pascaud RS, et al. **Biomaterials** 1997 May; 18(10):727-35

Gamma sterilization of UHMWPE articular implants: an analysis of the oxidation problem. Ultra High Molecular Weight Poly Ethylene. Premnath V, et al. **Biomaterials** 1996 Sep;17(18):1741-53

Effect of 60Co gamma radiation on Biomphalaria glabrata (Mollusca, Gastropoda) embryos: mortality, malformation and hatching. Okazaki K, et al. **Braz J Med Biol Res** 1996 Aug;29(8):1057-67

Comparative study of DNA radiolysis by fast neutrons and gamma-rays. Spotheim-Maurizot M, et al. **Bull Cancer Radiother** 1996;83 Suppl:27s-31s

Photodynamic treatment and radiotherapy: combined effect on the colony-forming ability of V79 Chinese hamster fibroblasts. Schnitzhofer GM, et al. **Cancer Lett** 1996 Nov 12;108(1):93-9

Free radicals generated by ionizing radiation signal nuclear translocation of p53. Martinez JD, et al. **Cell Growth Differ** 1997 Sep;8(9):941-9

Fatigue strength of polyethylene after sterilization by gamma irradiation or ethylene oxide. Ries MD, et al. **Clin Orthop** 1996 Dec;(333):87-95

Effects of sterilization on wear in total knee arthroplasty. White SE, et al. **Clin Orthop** 1996 Oct;(331):164-71

The effects of gamma-radiation on intestinal motor activity and faecal pellet expulsion in the guinea pig. Krantis A, et al. **Dig Dis Sci** 1996 Dec;41(12):2307-16

To determine the effects of ultraviolet light, natural light and ionizing radiation on pyridinium cross-links in bone and urine using high-performance liquid chromatography. Colwell A, et al. **Eur J Clin Invest** 1996 Dec;26(12):1107-14

Thymocyte differentiation in gamma-irradiated severe-combined immunodeficient mice: characterization of intermediates and products of V(D)J recombination at the T cell receptor alpha locus. Zhu C, et al. **Eur J Immunol** 1996 Dec;26(12):2859-65

Temporal position of G1 arrest in normal human fibroblasts after exposure to gamma-rays. Gadbois DM, et al. **Exp Cell Res** 1997 Apr 10;232(1):161-6

Jun and JNK kinase are activated in thymocytes in response to VM26 and radiation but not glucocorticoids. Testolin L, et al. **Exp Cell Res** 1997 Feb 1;230(2):220-32

Radiation-induced chromosomal rearrangement as an aid to analysis of the genetic constitution of Phaffia rhodozyma. Nagy A, et al. **FEMS Microbiol Lett** 1997 Jul 15; 152(2):249-54

Radioprotective properties of flurbiprofen. Hofer M, et al. **Folia Biol (Praha)** 1996;42(5):267-9

Stability of fumonisins at different storage periods and temperatures in gamma-irradiated maize. Visconti A, et al. **Food Addit Contam** 1996 Nov-Dec;13(8):929-38

Stable nitroxide radicals protect lipid acyl chains from radiation damage. Samuni AM, et al. **Free Radic Biol Med** 1997;22(7):1165-74

Dual roles of ATM in the cellular response to radiation and in cell growth control [see comments] Xu Y, et al. **Genes Dev** 1996 Oct 1;10(19):2401-10. Comment in: Genes Dev 1996 Oct 1;10(19):2383-8.

Low permeability asphalt concrete gamma ray shielding properties. Binney SE, et al. **Health Phys** 1997 Jan; 72(1):147-51

Safety systems in gamma irradiation facilities. Drndarevic V. **Health Phys** 1997 Aug;73(2):383-4

Gamma doses from phospho-gypsum plaster-board. O'Brien RS. **Health Phys** 1997 Jan;72(1):92-6

Long-term effect of prenatal exposure to low level of gamma radiation on neurophysiology of mouse. Baskar R, et al. **Indian J Exp Biol** 1996 Sep;34(9):887-90

Radioprotective effects of diltiazem on cytogenetic damage and survival in gamma ray exposed mice. Goel HC, et al. **Indian J Exp Biol** 1996 Dec;34(12):1194-200

Effect of gamma radiation on fetal haemopoiesis of mouse. Hossain M, et al. **Indian J Exp Biol** 1996 Sep;34(9):880-2

Nuclear matrix bound DNA polymerase-beta in mouse fibrosarcoma: effect of gamma-radiation. Nair CK, et al. **Indian J Exp Biol** 1996 Sep;34(9):868-9

Lck dependence of signaling pathways activated by gamma-irradiation and CD3 epsilon engagement in RAG-1(-/-)-immature thymocytes. Wu G, et al. **Int Immunol** 1996 Jul;8(7):1159-64

A comparison of p53 and p16 expression in human tumor cells treated with hyperthermia or ionizing radiation. Valenzuela MT, et al. **Int J Cancer** 1997 Jul 17;72(2):307-12

Control of Yersinia enterocolitica in raw pork and pork products by gamma-irradiation. Kamat AS, et al. **Int J Food Microbiol** 1997 Apr 29;36(1):69-76

Mutations induced by gamma-irradiation of M13 bacteriophages containing single-stranded DNA. Braun JE, et al. **Int J Radiat Biol** 1996 Oct;70(4):459-65

Detection and evaluation of chromosomal aberrations induced by high doses of gamma-irradiation using immunogold-silver painting of prematurely condensed chromosomes. Gotoh E, et al. **Int J Radiat Biol** 1996 Nov; 70(5):517-20

The effect of 50 Hz electromagnetic fields on the formation of micronuclei in rodent cell lines exposed to gamma radiation. Lagroye I, et al. **Int J Radiat Biol** 1997 Aug; 72(2):249-54

The influence of gamma radiation and substrate on mycotoxin production by Fusarium culmorum IMI 309344. O'Neill K, et al. **J Appl Bacteriol** 1996 Nov;81(5):518-24

Repair of extensive ionizing-radiation DNA damage at 95 degrees C in the hyperthermophilic archaeon Pyrococcus furiosus. DiRuggiero J, et al. **J Bacteriol** 1997 Jul; 179(14):4643-5

The role of c-Jun N-terminal kinase (JNK) in apoptosis induced by ultraviolet C and gamma radiation. Duration of JNK activation may determine cell death and proliferation. Chen YR, et al. **J Biol Chem** 1996 Dec 13; 271(50):31929-36

Regulation of the release of tumour necrosis factor (TNF)alpha and soluble TNF receptor by gamma irradiation and interferon gamma in Ewing's sarcoma/peripheral primitive neuroectodermal tumour cells. van Valen F, et al. **J Cancer Res Clin Oncol** 1997; 123(5):245-52

Gamma radiation as a quarantine treatment for the Mediterranean fruit fly (Diptera:Tephritidae). Mansour M, et al. **J Econ Entomol** 1996 Oct;89(5):1175-80

Irradiation killing of Toxoplasma gondii oocysts. Dubey JP, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):123S

Induction of tumor necrosis factor alpha expression in human T lymphocytes following ionizing gamma irradiation. Weill D, et al. **J Interferon Cytokine Res** 1996 May;16(5):395-402

Effect of freeze-drying or gamma-irradiation on remodeling of tendon allograft in a rat model. Toritsuka Y, et al. **J Orthop Res** 1997 Mar;15(2):294-300

Apoptosis induced by gamma-irradiation, but not CD4 ligation, of peripheral T lymphocytes in vivo is p53-dependent. Malcomson RD, et al. **J Pathol** 1997 Feb; 181(2):166-71

The effect of gamma radiation on the degradation of salbutamol. Basly JP, et al. **J Pharm Biomed Anal** 1997 May;15(8):1137-41

Effect of sublethal irradiation of SCID mice on growth of B-cell lymphoma xenografts and on efficacy of chemotherapy and/or immunotoxin therapy. Ghetie MA, et al. **Lab Anim Sci** 1996 Jun;46(3):305-9

Regulation of rubratoxin-B biosynthesis: assessment of role of gamma-irradiation, pH and carbohydrates. Aziz NH, et al. **Microbios** 1997;89(358):47-54

Ionizing radiation induces apoptosis and elevates cyclin A1-Cdk2 activity before but not after the midblastula transition in Xenopus. Anderson JA, et al. **Mol Biol Cell** 1997 Jul;8(7):1195-206

Ubiquitination of p53 and p21 is differentially affected by ionizing and UV radiation. Maki CG, et al. **Mol Cell Biol** 1997 Jan;17(1):355-63

DNA-damaging agents induce both p53-dependent and p53-independent apoptosis in immature thymocytes. MacFarlane M, et al. **Mol Pharmacol** 1996 Oct;50(4):900-11

Ionizing radiation signature mutations in human cell mutants induced by low-dose exposures. Nelson SL, et al. **Mutagenesis** 1996 May;11(3):275-9

Effect of the sulfhydryl compound cysteamine on gamma-radiation-induced mutations in double-stranded M13 DNA. Braun JE, et al. **Mutat Res** 1996 Dec 2; 364(3):171-82

Cell cycle dependence of radiation-induced homologous recombination in cultured monkey cells. Cao J, et al. **Mutat Res** 1997 Mar 21;374(2):233-43

Correlation between micronuclei induction and cell survival in V79 cells exposed to paclitaxel (taxol) in conjunction with radiation. Jagetia GC, et al. **Mutat Res** 1997 Jun 9; 377(1):105-13

Chromosome aberrations in Syrian hamsters following very low radiation doses in vivo. Lloyd DC, et al. **Mutat Res** 1997 Jun 9;377(1):63-8

A low, adaptive dose of gamma-rays reduced the number and altered the spectrum of S1- mutants in human-hamster hybrid AL cells. Ueno AM, et al. **Mutat Res** 1996 Nov 4;358(2):161-9

Activation of Raf by ionizing radiation. Kasid U, et al. **Nature** 1996 Aug 29;382(6594):813-6

Neurobehavioral study of prenatal exposure to hyperthermia combined with irradiation in mice. Zhong DZ, et al. **Neurotoxicol Teratol** 1996 Nov-Dec;18(6):703-9

Radiation sterilization of formoterol. Basly JP, et al. **Pharm Res** 1997 Jun;14(6):810-4

Gamma-ray scattering for fat fraction measurement. Shakeshaft J, et al. **Phys Med Biol** 1997 Jul;42(7):1403-13

The influence of essential phospholipids (ESSENTIALE) on liver regeneration in gamma irradiated rats. Kropáčová K, et al. **Physiol Res** 1995;44(4):241-7

Changes in cellular proteins of Deinococcus radiodurans following gamma-irradiation. Tanaka A, et al. **Radiat Environ Biophys** 1996 May;35(2):95-9

Oncogenic changes in murine lymphoid tumors induced by in utero exposure to ionizing radiation. Lumniczky K, et al. **Radiat Oncol Investig** 1997;5(3):158-62

Comparative clastogenic sensitivity of respiratory tract cells to gamma rays. Bao S, et al. **Radiat Res** 1997 Jul;148(1):90-7

Further investigation of the response of human uroepithelium to low doses of cobalt-60 gamma radiation. Mothersill C, et al. **Radiat Res** 1997 Feb;147(2):156-65

Radiation chemistry of physiological saline reinvestigated: evidence that chloride-derived intermediates play a key role in cytotoxicity. Saran M, et al. **Radiat Res** 1997 Jan; 147(1):70-7

Gamma knife radiosurgery [letter] Stein BM. **Surg Neurol** 1997 Jul;48(1):7-8

Influence of ionizing radiation on crotoxin: biochemical and immunological aspects. Do Nascimento N, et al. **Toxicon** 1996 Jan;34(1):123-31

Guidelines on gamma irradiation of blood components for the prevention of transfusion-associated graft-versus-host disease. BCSH Blood Transfusion Task Force [see comments] **Transfus Med** 1996 Sep;6(3):261-71. Comment in: Transfus Med 1997 Jun;7(2):172-3.

Are guidelines for use of gamma irradiation for the prevention of transfusion-associated graft-versus-host disease adequate for newborns? [letter; comment] Ohto H, et al. **Transfus Med** 1997 Jun;7(2):172-3. Comment on: Transfus Med 1996 Sep;6(3):261-71.

Effects of gamma irradiation on red cells from donors with sickle cell trait. Jin YS, et al. **Transfusion** 1997 Aug; 37(8):804-8

Gamma radiation does not prevent transfusion-induced HLA alloimmunization [letter] Ohto H. **Transfusion** 1997 Aug; 37(8):878-9

[Enlargement of effective field of view in gamma-ray transmission CT using a fan-beam geometry] Ogawa K, et al. **Kaku Igaku** 1996 Sep;33(9):975-9 (Eng. Abstr.) **(Jpn)**

[Feasibility of obtaining a highly active mutant of Streptomyces hygroscopicus SU-A5 using induced mutagenesis] Kenarova A, et al. **Antibiot Khimioter** 1996 May;41(5):3-5 (Eng. Abstr.) **(Rus)**

[Combined effects of various forms of motor deprivation and gamma irradiation on the higher nervous activity in rats] Shtemberg AS. **Aviakosm Ekolog Med** 1997;31(2):38-43 (Eng. Abstr.) **(Rus)**

[Combined effects of hypokinesia and various doses of gamma irradiation on conditioned reflex activity in rats] Shtemberg AS. **Aviakosm Ekolog Med** 1997;31(3):34-9 (Eng. Abstr.) **(Rus)**

[Possible mechanisms of the emergence of chromosome aberrations. VIII. Cytogenetic analysis of the dynamics of repair and occurrence of potential chromosome damage in bone marrow cells of gamma-irradiated mice] Lebedeva LI, et al. **Genetika** 1996 Jun;32(6):804-9 (Eng. Abstr.) **(Rus)**

[Interaction of mutations of the genes for mutagen sensitivity mei-9, mei-41 and rad201 as affected by ionizing radiation] Varentsova ER, et al. **Genetika** 1997 Mar;33(3):328-32 (Eng. Abstr.) **(Rus)**

[Induction of cytogenetic damage in Chinese hamster cells after combined exposure to low doses of gamma-radiation and various chemical and physical agents] Zaichkina SI, et al. **Genetika** 1996 Dec;32(12):1721-4 (Eng. Abstr.) **(Rus)**

[The problem of true and false mutant spots of the mwh type in method of somatic mosaics of Drosophila melanogaster wing cells] Zakharenko LP, et al. **Genetika** 1996 Jun;32(6):755-8 (Eng. Abstr.) **(Rus)**

[Radio-adaptive response in repair-defective cells from patients with homocystinuria] Zasukhina GD, et al. **Genetika** 1996 Nov;32(11):1592-5 (Eng. Abstr.) **(Rus)**

[Role of T-lymphocytes in impaired adaptive reaction of the hemopoietic system in emotional stress developed after preliminary gamma-irradiation] Moroz BB, et al. **Patol Fiziol Eksp Ter** 1996 Jul-Sep;(3):10-3 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Gamma-ray dose assessment after the 1994 radiation accident in Kiisa (Estonia): preliminary results. Hütt G, et al. **Appl Radiat Isot** 1996 Nov-Dec;47(11-12):1329-34

A study of the combined effects of shelf ageing following irradiation in air and counterface roughness on the wear of UHMWPE. Besong AA, et al. **Biomed Mater Eng** 1997; 7(1):59-65

Measurement of oxidative damage at pyrimidine bases in gamma-irradiated DNA. Douki T, et al. **Chem Res Toxicol** 1996 Oct-Nov;9(7):1145-51

Neonatal gamma-ray irradiation impairs learning and memory of an olfactory associative task in adult rats. Chaillan FA, et al. **Eur J Neurosci** 1997 May;9(5):884-94

Radiation-induced oxidative DNA base damage and its repair in nuclear matrix-associated DNA and in bulk DNA in hepatic chromatin of rat upon whole-body gamma-irradiation. Zastawny TH, et al. **Free Radic Biol Med** 1997;22(1-2):101-7

Mitochondrial respiratory chain features after gamma-irradiation. Battino M, et al. **Free Radic Res** 1997 May;26(5):431-8

Impact of gamma sterilization on clinical performance of polyethylene in the knee. Collier JP, et al.

J Arthroplasty 1996 Jun;11(4):377–89

Physical and motor development in male and female rat offspring prenatally exposed to gamma radiation. Zaman MS, et al. **J Environ Sci Health B** 1997 Mar;32(2):313–25

Biomechanical effects of gamma irradiation on fresh frozen allografts in vivo. Godette GA, et al. **Orthopedics** 1996 Aug;19(8):649–53

A system for mutation measurement in mammalian cells: application to gamma-irradiation. Puck TT, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1218–23

Neutron versus gamma-ray risk estimates. Inferences from the cancer incidence and mortality data in Hiroshima. Kellerer AM, et al. **Radiat Environ Biophys** 1997 Jun; 36(2):73–83

Radiation-induced chromosomal instability in BALB/c and C57BL/6 mice: the difference is as clear as black and white. Ponnaiya B, et al. **Radiat Res** 1997 Feb;147(2):121–5

[The relation of circadian variations of heuristic behavior and CNS radioresistance in animals] Ushakov IB, et al. **Aviakosm Ekolog Med** 1996;30(6):26–32 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Validation of gamma probe detection of the sentinel node in melanoma. Kapteijn BA, et al. **J Nucl Med** 1997 Mar; 38(3):362–6

Use of gamma detecting probe and isosulphan blue to localize sentinel node in patients with malignant melanoma. Singh K, et al. **Md Med J** 1996 Jun;45(6):476–81

THERAPEUTIC USE

Caesium-137 gamma-ray beams. Burns JE. **Br J Radiol** 1996; Suppl 25:39–45 (9 ref.)

Cobalt-60 gamma-ray beams. McKenzie AL. **Br J Radiol** 1996;Suppl 25:46–61 (22 ref.)

Stereotactic irradiation of uveal melanoma with the Leksell gamma unit. Zehetmayer M, et al. **Front Radiat Ther Oncol** 1997;30:47–55

In vivo dose increase in the presence of dental alloys during 60Co-gamma-ray therapy of the oral cavity. Thilmann C, et al. **Med Dosim** 1996 Fall;21(3):149–54

The combined effects of high-energy shock waves and ionising radiation on a human bladder cancer cell line. Fickweiler S, et al. **Ultrasound Med Biol** 1996; 22(8):1097–102

GAMMA-SEMINOPROTEIN see **PROSTATE-SPECIFIC ANTIGEN**

GAMMA SPECTROPHOTOMETRY see **SPECTROMETRY, GAMMA**

GAMMA-THIO-GTP see **GUANOSINE 5'-O-(3-THIOTRIPHOSPHATE)**

GAMMA-TRANSDUCIN see **TRANSDUCIN**

GAMMAHERPESVIRINAE

Transmission of equine herpesvirus 2 to the mouse: characterization of a new laboratory infection model. Rizvi SM, et al. **J Gen Virol** 1997 May;78 (Pt 5):1119–24

Immunological control of murine gammaherpesvirus infection is independent of perforin. Usherwood EJ, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2025–30

Gamma interferon is not essential for recovery from acute infection with murine gammaherpesvirus 68. Sarawar SR, et al. **J Virol** 1997 May;71(5):3916–21

CHEMISTRY

Glycoprotein B of bovine herpesvirus 4 is a major component of the virion, unlike that of two other gammaherpesviruses, Epstein-Barr virus and murine gammaherpesvirus 68. Lomonte P, et al. **J Virol** 1997 Apr;71(4):3332–5

GENETICS

Murine gammaherpesvirus 68 encodes tRNA-like sequences which are expressed during latency. Bowden RJ, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1675–87

Alcelaphine herpesvirus type 1 has a semaphorin-like gene. Ensser A, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1063–7

Analysis of bovine herpesvirus 4 genomic regions located outside the conserved gammaherpesvirus gene blocks. Lomonte P, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1835–41

Genetic content and preliminary transcriptional analysis of a representative region of murine gammaherpesvirus 68. Mackett M, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1425–33

Pathological changes in the spleens of gamma interferon receptor-deficient mice infected with murine gammaherpesvirus: a role for CD8 T cells. Dutia BM, et al. **J Virol** 1997 Jun;71(6):4278–83

Primary structure of the alcelaphine herpesvirus 1 genome. Ensser A, et al. **J Virol** 1997 Sep;71(9):6517–25

Complete sequence and genomic analysis of murine gammaherpesvirus 68. Virgin HW 4th, et al. **J Virol** 1997 Aug;71(8):5894–904

Bovine herpesvirus 4: genomic organization and relationship with two other gammaherpesviruses, Epstein-Barr virus and herpesvirus saimiri. Lomonte P, et al. **Vet Microbiol** 1996 Nov;53(1-2):79–89 (43 ref.)

IMMUNOLOGY

Characteristics of a murine gammaherpesvirus infection immunocompromised mice. Kulkarni AB, et al. **In Vivo** 1997 Jul-Aug;11(4):281–91

Pathogenesis of an infectious mononucleosis-like disease induced by a murine gamma-herpesvirus: role for a viral superantigen? Tripp RA, et al. **J Exp Med** 1997 May 5; 185(9):1641–50

Assessment of the cell-mediated immunity in cattle infection after bovine herpesvirus 4 infection, using an in vitro antigen-specific interferon-gamma assay. Godfroid J, et al. **Vet Microbiol** 1996 Nov;53(1-2):133–41

ISOLATION & PURIFICATION

Kaposi's sarcoma-associated herpesvirus infection prior to onset of Kaposi's sarcoma. Moore PS, et al. **AIDS** 1996 Feb;10(2):175–80

Equine herpesvirus type 2: prevalence and seroepidemiology in foals [see comments] Murray MJ, et al. **Equine Vet J** 1996 Nov;28(6):432–6. Comment in: Equine Vet J 1996 Nov;28(6):426–8.

About the cellular tropism of the gammaherpesvirus bovine herpesvirus type 4 [letter; comment] Osorio FA, et al. **J Clin Microbiol** 1996 Dec;34(12):3253–4. Comment on: J Clin Microbiol 1996 May;34(5):1091–5.

Detection and distribution of equine herpesvirus 2 DNA in the central and peripheral nervous systems of ponies. Rizvi SM, et al. **J Gen Virol** 1997 May;78 (Pt 5):1115–8

METABOLISM

Analysis of the biochemical properties of, and complex formation between, glycoproteins H and L of the gamma2 herpesvirus bovine herpesvirus-4. Lomonte P, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2015–23

PATHOGENICITY

Distribution and relevance of equine herpesvirus type 2 (EHV-2) infections. Borchers K, et al. **Arch Virol** 1997; 142(5):917–28

Equine herpesvirus 2 and disease [editorial; comment] Studdert MJ. **Equine Vet J** 1996 Nov;28(6):426–8. Comment on: Equine Vet J 1996 Nov;28(6):432–6.

PHYSIOLOGY

Absence of splenic latency in murine gammaherpesvirus 68-infected B cell-deficient mice. Usherwood EJ, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2819–25

Mature B cells are required for acute splenic infection, but not for establishment of latency, by murine gammaherpesvirus 68. Weck KE, et al. **J Virol** 1996 Oct; 70(10):6775–80

Susceptibility of endothelial cells to bovine herpesvirus type 4 (BHV-4). Lin TM, et al. **J Virol Methods** 1997 Jan; 63(1-2):219–25

Viral FLICE-inhibitory proteins (FLIPs) prevent apoptosis induced by death receptors. Thome M, et al. **Nature** 1997 Apr 3;386(6624):517–21

GAMMAPHOS see **AMIFOSTINE**

GANCICLOVIR

ADMINISTRATION & DOSAGE

Combination antiviral therapy for cytomegalovirus disease in patients with AIDS. Cline JJ, et al. **Ann Pharmacother** 1997 Sep;31(9):1080–2 (14 ref.)

Intravitreal ganciclovir for cytomegalovirus retinitis in patients with AIDS. Montero MC, et al. **Ann Pharmacother** 1996 Jul-Aug;30(7-8):717–23

Gene therapy of metastatic pancreas cancer with intraperitoneal injections of concentrated retroviral herpes simplex thymidine kinase vector supernatant and ganciclovir. Yang L, et al. **Ann Surg** 1996 Sep; 224(3):405–14; discussion 414–7

Cyclodialysis complicating intravitreal ganciclovir implantation [letter] Gentile RC, et al. **Arch Ophthalmol** 1997 Sep;115(9):1204–5

Preemptive ganciclovir administration based solely on asymptomatic pulmonary cytomegalovirus infection in allogeneic bone marrow transplant recipients: long-term follow-up. Zaia JA, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):88–93

Combined foscarnet -ganciclovir treatment for cytomegalovirus infections after allogeneic hemopoietic stem cell transplantation (Hsct). Bacigalupo A, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:110–4

Comparison of cytomegalovirus antigenemia and shell vial culture in allogeneic marrow transplantation recipients receiving ganciclovir prophylaxis. Nicholson VA, et al. **Bone Marrow Transplant** 1997 Jan;19(1):37–41

Cytomegalovirus retinitis: decreased risk of bilaterality with increased use of systemic treatment. Swiss HIV Cohort Study Group. Stalder N, et al. **Clin Infect Dis** 1997 Apr; 24(4):620–4

A risk-adapted approach with a short course of ganciclovir to prevent cytomegalovirus (CMV) pneumonia in CMV-seropositive recipients of allogeneic bone marrow transplants. Verdonck LF, et al. **Clin Infect Dis** 1997 May; 24(5):901–7

Oral ganciclovir: role in maintenance therapy for CMV retinitis in AIDS patients. Owens RC Jr, et al. **Conn Med** 1996 Nov;60(11):663–5

Biodegradable polymeric device for sustained intravitreal release of ganciclovir in rabbits. Hashizoe M, et al. **Curr Eye Res** 1997 Jul;16(7):633–9

Safety of intrapleurally administered recombinant adenovirus carrying herpes simplex thymidine kinase DNA followed by ganciclovir therapy in nonhuman primates. Kucharczuk JC, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2225–33

Ganciclovir-loaded polymer microspheres in rabbit eyes inoculated with human cytomegalovirus. Veloso AA Jr, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):665–75

Inhibition of graft-versus-host disease. Use of a T cell-controlled suicide gene. Helene M, et al. **J Immunol** 1997 Jun 1;158(11):5079–82

Release kinetics of liposome-encapsulated ganciclovir after intravitreal injection in rabbits. Le Bourlais C, et al. **J Microencapsul** 1996 Jul-Aug;13(4):473–80

Treatment of cytomegalovirus retinitis with a sustained-release ganciclovir implant. The Ganciclovir Implant Study Group. Musch DC, et al. **N Engl J Med** 1997 Jul 10;337(2):83–90

Impact of ganciclovir prophylaxis on cytomegalovirus infection in recipients of cadaveric renal allografts. Ram Peddi V, et al. **Nephron** 1997;76(1):49–55

Induction of acquired immunity in rats that have eliminated intracranial gliosarcoma cells by the expression of herpes simplex virus-thymidine kinase gene and ganciclovir administration. Iwadate Y, et al. **Oncology** 1997 Jul-Aug; 54(4):329–34

Initial experience with an eight-month sustained-release intravitreal ganciclovir implant for the treatment of CMV retinitis associated with AIDS. Duker JS, et al. **Ophthalmic Surg Lasers** 1995 Sep-Oct;26(5):442–8

Treatment of cytomegalovirus retinitis in AIDS patients using intravitreal injections of highly concentrated ganciclovir. Baudouin C, et al. **Ophthalmologica** 1996; 210(6):329–35

Ganciclovir intraocular implant [letter; comment] Morley MG, et al. **Ophthalmology** 1996 Oct;103(10):1517. Comment on: Ophthalmology 1996 Mar;103(3):416–21.

Concurrent ganciclovir and foscarnet treatment for cytomegalovirus encephalitis and retinitis in an infant with acquired immunodeficiency syndrome: case report and review. Zaknun D, et al. **Pediatr Infect Dis J** 1997 Aug; 16(8):807–11

How effective is oral ganciclovir? Martin M, et al. **Transplant Proc** 1996 Dec;28(6 Suppl 2):14–5 (6 ref.)

[Technique of implantation of A ganciclovir-containing intravitreal device] Lehoang P, et al. **J Fr Ophtalmol** 1997; 20(2):163–5 **(Fre)**

[Centralized preparation in the pharmacy of dilute solutions of ganciclovir: (Cymevan): work load change and economic potential] Teissier R, et al. **J Pharm Belg** 1997 May-Jun;52(3):105–9 (Eng. Abstr.) **(Fre)**

[Intravitreal injection of ganciclovir in AIDS patients with cytomegalovirus retinitis] Fujino Y, et al. **Nippon Ganka Gakkai Zasshi** 1996 Aug;100(8):634–40 (Eng. Abstr.) **(Jpn)**

[Use of intravitreal ganciclovir for cytomegalovirus retinitis in a patient with systemic lupus erythematosus] Kaji Y, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jun;101(6):525–31 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Gancyclovir-induced megakaryocyte loss in chronic myelogenous leukemia post bone-marrow transplant [letter] Gardner L, et al. **Am J Hematol** 1996 Nov; 53(3):204–5

Early reactivation of cytomegalovirus retinitis following placement of a ganciclovir implant [letter] Friedlander SM, et al. **Arch Ophthalmol** 1997 Jun;115(6):802–3

Neutropenia in allogeneic marrow transplant recipients receiving ganciclovir for prevention of cytomegalovirus disease: risk factors and outcome. Salzberger B, et al. **Blood** 1997 Sep 15;90(6):2502–8

Eye movement disorders in bone marrow transplant patients on cyclosporin and ganciclovir. Openshaw H, et al. **Bone Marrow Transplant** 1997 Mar;19(5):503–5

Ganciclovir-induced psychosis [letter] [see comments] Hansen BA, et al. **N Engl J Med** 1996 Oct 31;335(18):1397 . Comment in: N Engl J Med 1997 Apr 17;336(16):1190.

Oral ganciclovir as prophylaxis against cytomegalovirus [letter; comment] Nicklin D. **N Engl J Med** 1996 Oct 31; 335(18):1395; discussion 1396-7. Comment on: N Engl J Med 1996 Jun 6;334(23):1491–7.

More on ganciclovir-induced "psychosis" [letter; comment] Schiff HB. **N Engl J Med** 1997 Apr 17;336(16):1190. Comment on: N Engl J Med 1996 Oct 31;335(18):1397.

ANALOGS & DERIVATIVES

Potent anti-murine cytomegalovirus activity and reduced nephrotoxicity of ganciclovir cyclic phosphonate. Smee DF, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1964–6

Acyclic glycosidopyrroles analogues of ganciclovir: synthesis and biological activity. Diana P, et al. **Farmaco** 1997 May; 52(5):281–2

A method for detection of HHV-6 antigens and its use for evaluating antiviral drugs. Yoshida M, et al.

J Virol Methods 1996 Apr 26;58(1-2):137-43

9-[(3-[18F]-fluoro-1-hydroxy-2-propoxy)methyl]guanine ([18F]-FHPG): a potential imaging agent of viral infection and gene therapy using PET. Alauddin MM, et al. **Nucl Med Biol** 1996 Aug;23(6):787-92

BLOOD

A simple high performance liquid chromatography (HPLC) assay for aciclovir and ganciclovir in serum [letter] McMullin CM, et al. **J Antimicrob Chemother** 1996 Oct; 38(4):739-40

CHEMISTRY

The formation of crystals in ganciclovir used for intraocular injection [letter] Fiscella RG, et al. **Arch Ophthalmol** 1997 Jul;115(7):945-6

Solution structure of a DNA decamer containing the antiviral drug ganciclovir: combined use of NMR, restrained molecular dynamics, and full relaxation matrix refinement. Foti M, et al. **Biochemistry** 1997 May 6;36(18):5336-45

ECONOMICS

An economic evaluation of oral compared with intravenous ganciclovir for maintenance treatment of newly diagnosed cytomegalovirus retinitis in AIDS patients. Sullivan SD, et al. **Clin Ther** 1996 May-Jun;18(3):546-58

An economic exploration of oral and intravenous ganciclovir in the induction and maintenance treatment of AIDS-related cytomegalovirus retinitis. Davies L, et al. **Int J STD AIDS** 1996 Oct;7(6):415-21

[Centralized preparation in the pharmacy of dilute solutions of ganciclovir: (Cymevan): work load change and economic potential] Teissier R, et al. **J Pharm Belg** 1997 May-Jun;52(3):105-9 (Eng. Abstr.) **(Fre)**

METABOLISM

Metabolism of ganciclovir and cidofovir in cells infected with drug-resistant and wild-type strains of murine cytomegalovirus. Okleberry KM, et al. **Antiviral Res** 1997 Jul;35(2):83-90

PHARMACOKINETICS

Pharmacokinetics of oral ganciclovir capsules in HIV-infected persons. Griffy KG. **AIDS** 1996 Dec;10 Suppl 4:S3-6

Population pharmacokinetics of ganciclovir in newborns with congenital cytomegalovirus infections. NIAID Collaborative Antiviral Study Group. Zhou XJ, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2202-5

Simple reversed-phase high-performance liquid chromatography quantitation of ganciclovir in human serum and urine. Page T, et al. **J Chromatogr B Biomed Appl** 1996 Jan 26;675(2):342-6

Release kinetics of liposome-encapsulated ganciclovir after intravitreal injection in rabbits. Le Bourlais C, et al. **J Microencapsul** 1996 Jul-Aug;13(4):473-80

Vitreous disposition of two acycloguanosine antivirals in the albino and pigmented rabbit models: a novel ocular microdialysis technique. Hughes PM, et al. **J Ocul Pharmacol Ther** 1996 Summer;12(2):209-24

In vitro evaluation of polymeric matrix and porous biodegradable reservoir devices for slow-release drug delivery. Peyman GA, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):384-91

Intravenous infusion of RMP-7 increases ocular uptake of ganciclovir. Elliot PJ, et al. **Pharm Res** 1997 Jan;14(1):80-5

Pharmacokinetics of mycophenolate mofetil and intravenous ganciclovir alone and in combination in renal transplant recipients. Wolfe EJ, et al. **Pharmacotherapy** 1997 May-Jun;17(3):591-8

Ganciclovir use during mild renal failure in heart transplantation. Bastien O, et al. **Transplant Proc** 1996 Oct; 28(5):2876-7

PHARMACOLOGY

Evaluation of prodrugs ability to induce effective ablation of cells transduced with viral thymidine kinase gene. Kuriyama S, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):2623-8

Interaction between ganciclovir and foscarnet as inhibitors of duck hepatitis B virus replication in vitro. Civitico G, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1180-5

Application of a gastric cancer cell line (MKN-28) for anti-adenovirus screening using the MTT method. Kodama E, et al. **Antiviral Res** 1996 Jul;31(3):159-64

Combination of antiviral immunotoxin and ganciclovir or cidofovir for the treatment of murine cytomegalovirus infections. Smee DF, et al. **Antiviral Res** 1996 Nov; 32(3):165-71

Genetic analysis of a clinical isolate of human cytomegalovirus exhibiting resistance against both ganciclovir and cidofovir. Harada K, et al. **Arch Virol** 1997; 142(2):215-25

Thymidine kinase (TK) gene-transduced human lymphocytes can be highly purified, remain fully functional, and are killed efficiently with ganciclovir. Munshi NC, et al. **Blood** 1997 Feb 15;89(4):1334-40

The drug verapamil inhibits bystander killing but not cell suicide in thymidine kinase-ganciclovir prodrug-activated gene therapy. Marini FC 3rd, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):405-12

Expression of costimulatory molecules: B7 and ICAM up-regulation after treatment with a suicide gene. Ramesh R, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):373-84

Herpes simplex virus thymidine kinase/ganciclovir-mediated killing of tumor cell induces tumor-specific cytotoxic T cells in mice. Yamamoto S, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):91-6

Liposomal delivery of the herpes simplex virus thymidine kinase gene in glioma: improvement of cell sensitization to ganciclovir. Zerrouqi A, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):385-92

Antiviral susceptibility testing-flow cytometric analysis (AST-FCA) for the detection of cytomegalovirus drug resistance. Lipson SM, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):123-9

Selective killing of Leishmania amastigotes expressing a thymidine kinase suicide gene. Muyombwe A, et al. **Exp Parasitol** 1997 Jan;85(1):35-42

Gap junctions play a role in the 'bystander effect' of the herpes simplex virus thymidine kinase/ganciclovir system in vitro. Elshami AA, et al. **Gene Ther** 1996 Jan;3(1):85-92

Anti-tumor immunity is involved in the thymidine kinase-mediated killing of tumors induced by activated Ki-ras(G12V). Pavlovic J, et al. **Gene Ther** 1996 Jul; 3(7):635-43

Suicide gene expression induced in tumour cells transduced with recombinant adenoviral, retroviral and plasmid vectors containing the ERBB2 promoter. Ring CJ, et al. **Gene Ther** 1996 Dec;3(12):1094-103

Limited efficacy of the HSV-TK/GCV system for gene therapy of malignant gliomas and perspectives for the combined transduction of the interleukin-4 gene. Benedetti S, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1345-53

Long-term survival in a rodent model of disseminated brain tumors by combined intrathecal delivery of herpes vectors and ganciclovir treatment. Kramm CM, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1989-94

Cure of mice with established metastatic friend leukemia cell tumors by a combined therapy with tumor cells expressing both interferon-alpha 1 and herpes simplex thymidine kinase followed by ganciclovir. Santodonato L, et al. **Hum Gene Ther** 1996 Jan;7(1):1-10

Treatment of advanced mesothelioma with the recombinant adenovirus H5.010RSVTK: a phase 1 trial (BB-IND 6274). Treat J, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2047-57

High-level resistance of cytomegalovirus to ganciclovir is associated with alterations in both the UL97 and DNA polymerase genes. Smith IL, et al. **J Infect Dis** 1997 Jul; 176(1):69-77

Impact of prophylactic ganciclovir on bronchoalveolar lavage lymphocyte numbers and phenotypes in murine cytomegalovirus-induced reactivation of Toxoplasma pneumonia. Goetz L, et al. **J Lab Clin Med** 1996 Oct; 128(4):384-91

Multitracer studies during gene therapy of hepatoma cells with herpes simplex virus thymidine kinase and ganciclovir. Haberkorn U, et al. **J Nucl Med** 1997 Jul;38(7):1048-54

The effect of ganciclovir on herpes simplex virus-mediated oncolysis. Carroll NM, et al. **J Surg Res** 1997 May; 69(2):413-7

Value of a ligase chain reaction assay for detection of ganciclovir resistance-related mutation 594 in UL97 gene of human cytomegalovirus. Bourgeois C, et al. **J Virol Methods** 1997 Sep;67(2):167-75

A simplified technique for determining the sensitivity of cytomegalovirus strains to ganciclovir. Calicó I, et al. **J Virol Methods** 1996 Jun;60(1):59-64

A macrophage-like cell model for testing anti-CMV drugs. Delannoy AS, et al. **Pathol Biol (Paris)** 1997 May; 45(5):394-9

Conditional reduction of human immunodeficiency virus type 1 replication by a gain-of-herpes simplex virus 1 thymidine kinase function. Smith SM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7955-60

Effects of ganciclovir and acyclovir on vascular cell proliferation of cytomegalovirus-positive and negative donors. Mohacsi PJ, et al. **Transplant Proc** 1996 Dec; 28(6):3234-5

Failure of ganciclovir treatment associated with selection of a ganciclovir-resistant cytomegalovirus strain in a lung transplant recipient. Alain S, et al. **Transplantation** 1997 May 27;63(10):1533-6

[Foscarnet therapy for ganciclovir-refractory cytomegalovirus hepatitis in a patient who underwent bone marrow transplantation from an unrelated donor] Fujisaki T, et al. **Rinsho Ketsueki** 1997 Feb;38(2):142-5 (Eng. Abstr.) **(Jpn)**

POISONING

Nephrotoxicity of acyclovir and ganciclovir in rats: evaluation of glomerular hemodynamics. Dos Santos M de F, et al. **J Am Soc Nephrol** 1997 Mar;8(3):361-7

THERAPEUTIC USE

A case of ganciclovir-resistant cytomegalovirus (CMV) retinitis in a patient with AIDS: longitudinal molecular analysis of the CMV viral load and viral mutations in blood compartments. Boivin G, et al. **AIDS** 1997 Jun;11(7):867-73

Cytomegalovirus retinitis in AIDS patients: influence of cytomegaloviral load on response to ganciclovir, time to recurrence and survival. Bowen EF, et al. **AIDS** 1996 Nov; 10(13):1515-20

Cytomegalovirus retinitis in AIDS patients: a comparative study of intravenous and oral ganciclovir as maintenance therapy. Danner SA, et al. **AIDS** 1996 Dec;10 Suppl 4:S7-11

Ganciclovir evaluation in AIDS patients with cytomegalovirus retinitis: a European study of treatment patterns and resource utilization. Hardens M. **AIDS** 1996 Dec;10 Suppl 4:S25-30

Funduscopy versus photographic assessment of cytomegalovirus retinitis progression: a clinician's perspective. Migdal C. **AIDS** 1996 Dec;10 Suppl 4:S19-23 (4 ref.)

Anti-herpesvirus treatment and risk of Kaposi's sarcoma in HIV infection. Royal Free/Chelsea and Westminster Hospitals Collaborative Group. Mocroft A, et al. **AIDS** 1996 Sep;10(10):1101-5

Re-evaluation of time to progression of foscarnet salvage therapy for cytomegalovirus retinitis in AIDS patients clinically resistant to ganciclovir [letter] Mueller AJ, et al. **AIDS** 1997 Mar;11(3):397-9

Cost-effectiveness of cytomegalovirus (CMV) disease prevention in patients with AIDS: oral ganciclovir and CMV polymerase chain reaction testing. Rose DN, et al. **AIDS** 1997 Jun;11(7):883-7

Oral ganciclovir for cytomegalovirus retinitis in patients with AIDS: results of two randomized studies. Squires KE. **AIDS** 1996 Dec;10 Suppl 4:S13-8

Foscarnet-Ganciclovir Cytomegalovirus Retinitis Trial: 5. Clinical features of cytomegalovirus retinitis at diagnosis. Studies of ocular complications of AIDS Research Group in collaboration with the AIDS Clinical Trials Group [see comments] **Am J Ophthalmol** 1997 Aug;124(2):141-57. Comment in: Am J Ophthalmol 1997 Aug;124(2):227-33.

Rhegmatogenous retinal detachment in patients with cytomegalovirus retinitis: the Foscarnet-Ganciclovir Cytomegalovirus Retinitis Trial. The Studies of Ocular Complications of AIDS (SOCA) Research Group in Collaboration with the AIDS Clinical Trials Group (ACTG). **Am J Ophthalmol** 1997 Jul;124(1):61-70

Use of the ganciclovir implant for treating cytomegalovirus retinitis secondary to immunosuppression after bone marrow transplantation. McAuliffe PF, et al. **Am J Ophthalmol** 1997 May;123(5):702-3

Treatment of bilateral cytomegalovirus retinitis with sustained-release ganciclovir implants in a child. Malley DS, et al. **Am J Ophthalmol** 1996 Nov;122(5):731-2

Cytomegalovirus prophylaxis and treatment following bone marrow transplantation. Tsinontides AC, et al. **Ann Pharmacother** 1996 Nov;30(11):1277-90 (79 ref.)

Pancreatic carcinoma cell killing via adenoviral mediated delivery of the herpes simplex virus thymidine kinase gene. Rosenfeld ME, et al. **Ann Surg** 1997 May;225(5):609-18; discussion 618-20

Early effects of ganciclovir therapy on the quantity of cytomegalovirus DNA in leukocytes of immunocompromised patients. Boivin G, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):860-2

Quantitative systemic and local evaluation of the antiviral effect of ganciclovir and foscarnet induction treatment on human cytomegalovirus gastrointestinal disease of patients with AIDS. Italian Foscarnet GID Study Group. Gerna G, et al. **Antiviral Res** 1997 Mar;34(1):39-50

Treatment of murine cytomegalovirus salivary-gland infection by combined therapy with ganciclovir and thymic humoral factor gamma 2. Palmon A, et al. **Antiviral Res** 1996 Dec;33(1):55-64

Cytomegalovirus pp65 antigenemia-guided early treatment with ganciclovir versus ganciclovir at engraftment after allogeneic marrow transplantation: a randomized double-blind study. Boeckh M, et al. **Blood** 1996 Nov 15; 88(10):4063-71

Prevention of graft-versus-host disease in mice using a suicide gene expressed in T lymphocytes. Cohen JL, et al. **Blood** 1997 Jun 15;89(12):4636-45

Ganciclovir prophylaxis for cytomegalovirus infection in pediatric allogeneic bone marrow transplant recipients. Canpolat C, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):589-93

Pre-emptive ganciclovir treatment can play a role in restoration of hematopoiesis after allogeneic bone marrow transplantation. Choi JH, et al. **Bone Marrow Transplant** 1997 Jan;19(2):187-90

Use of a semi-quantitative PCR for cytomegalovirus DNA as a basis for pre-emptive antiviral therapy in allogeneic bone marrow transplant patients. Ljungman P, et al. **Bone Marrow Transplant** 1996 Apr;17(4):583-7

Spontaneous complete remission and recovery of donor haemopoiesis without GVHD after relapse and apparent marrow graft rejection in poor-prognosis myelodysplastic syndrome. Beguin Y, et al. **Br J Haematol** 1996 Sep; 94(3):507-9

Gap junctions promote the bystander effect of herpes simplex virus thymidine kinase in vivo. Dilber MS, et al. **Cancer Res** 1997 Apr 15;57(8):1523-8

Cytomegalovirus infection-enhanced cardiac allograft vasculopathy is abolished by DHPG prophylaxis in the rat. Lemström K, et al. **Circulation** 1997 Jun 17; 95(12):2614-6

Diagnosis of cytomegalovirus meningoencephalitis by

polymerase chain reaction in an immunocompetent infant who recovered after treatment with ganciclovir. Mahieu LM, et al. **Clin Infect Dis** 1997 Mar;24(3):520–1

Prophylaxis for cytomegalovirus disease after liver transplant [letter; comment] Singh N, et al. **Clin Infect Dis** 1996 Jun; 22(6):1133–5. Comment on: Clin Infect Dis 1995 Nov;21(5):1077–89; quiz 1090–1.

An economic evaluation of oral compared with intravenous ganciclovir for maintenance treatment of newly diagnosed cytomegalovirus retinitis in AIDS patients. Sullivan SD, et al. **Clin Ther** 1996 May–Jun;18(3):546–58

Early ganciclovir therapy effectively controls viremia and avoids the need for cytomegalovirus (CMV) prophylaxis in renal transplant patients with cytomegalovirus antigenemia. Gotti E, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):550–5

Ganciclovir ophthalmic gel (Virgan; 0.15%) in the treatment of herpes simplex keratitis. Colin J, et al. **Cornea** 1997 Jul; 16(4):393–9

Treatment of clinically resistant cytomegalovirus retinitis in AIDS patients: combination of intravenous ganciclovir and intravitreal foscarnet. Pivetti-Pezzi P, et al. **Eur J Ophthalmol** 1995 Oct–Dec;5(4):199–203

Mechanism of 'bystander effect' killing in the herpes simplex thymidine kinase gene therapy model of cancer treatment. Ishii-Morita H, et al. **Gene Ther** 1997 Mar;4(3):244–51

Human malignant brain tumor response to herpes simplex thymidine kinase (HSVtk)/ganciclovir gene therapy. Izquierdo M, et al. **Gene Ther** 1996 Jun;3(6):491–5

Gene therapy against an experimental glioma using adeno-associated virus vectors. Okada H, et al. **Gene Ther** 1996 Nov;3(11):957–64

Partial regression, yet incomplete eradication of mammary tumors in transgenic mice by retrovirally mediated HSVtk transfer 'in vivo'. Sacco MG, et al. **Gene Ther** 1996 Dec; 3(12):1151–6

A continuous intracerebral gene delivery system for in vivo liposome-mediated gene therapy. Zhu J, et al. **Gene Ther** 1996 Jun;3(6):472–6

Applying the herpes simplex virus thymidine kinase/ganciclovir approach to ovarian cancer: an effective in vitro drug-sensitization system. Al-Hendy A, et al. **Gynecol Obstet Invest** 1997;43(4):268–75

Long-term ganciclovir chemotherapy for congenital duck hepatitis B virus infection in vivo: effect on intrahepatic-viral DNA, RNA, and protein expression. Luscombe C, et al. **Hepatology** 1996 Oct;24(4):766–73

A phase I study of recombinant adenovirus vector-mediated intraperitoneal delivery of herpes simplex virus thymidine kinase (HSV-TK) gene and intravenous ganciclovir for previously treated ovarian and extraovarian cancer patients. Alvarez RD, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):597–613

Treatment of advanced CNS malignancies with the recombinant adenovirus H5.010RSVTK: a phase I trial. Eck SL, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1465–82

A phase I trial of in vivo gene therapy with the herpes simplex thymidine kinase/ganciclovir system for the treatment of refractory or recurrent ovarian cancer. Link CJ Jr, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1161–79

Transduction of the herpes thymidine kinase gene into premalignant murine mammary epithelial cells renders subsequent breast cancers responsive to ganciclovir therapy. Moolten FL, et al. **Hum Gene Ther** 1996 Jun 20; 7(10):1197–204

Intracranial administration of adenovirus expressing HSV-TK in combination with ganciclovir produces a dose-dependent, self-limiting inflammatory response. Smith JG, et al. **Hum Gene Ther** 1997 May 20;8(8):943–54

Targeted killing of migrating glioma cells by injection of HTK-modified glioma cells. Tamura M, et al. **Hum Gene Ther** 1997 Mar 1;8(4):381–91

Parenteral ganciclovir treatment of acute CMV infection in the immunocompetent host. Laing RB, et al. **Infection** 1997 Jan–Feb;25(1):44–6

Adenovirus-mediated herpes simplex virus thymidine kinase gene and ganciclovir therapy leads to systemic activity against spontaneous and induced metastasis in an orthotopic mouse model of prostate cancer. Hall SJ, et al. **Int J Cancer** 1997 Jan 17;70(2):183–7

Tissue-specific expression of HSV-tk gene can induce efficient antitumor effect and protective immunity to wild-type hepatocellular carcinoma. Kuriyama S, et al. **Int J Cancer** 1997 May 2;71(3):470–5

New therapies for cytomegalovirus retinitis. Schwartz DM. **Int Ophthalmol Clin** 1996 Spring;36(2):1–9 (35 ref.)

Management strategies for patients with cytomegalovirus retinitis. Hardy WD. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997;14 Suppl 1:S7–12 (19 ref.)

Drug updates [news] **J Am Pharm Assoc (Wash)** 1996 Jan; NS36(1):7–8

Control of cytomegalovirus-associated morbidity in renal transplant patients using intensive monitoring and either preemptive or deferred therapy. Brennan DC, et al. **J Am Soc Nephrol** 1997 Jan;8(1):118–25

Cytovene-IV, Cytovene-Capsules. Porche DJ. **J Assoc Nurses AIDS Care** 1996 Jan–Feb;7(1):50–5 (7 ref.)

Impact of ganciclovir prophylaxis on heart-lung and lung transplant recipients. Soghikian MV, et al. **J Heart Lung Transplant** 1996 Sep;15(9):881–7

Reactivated fulminant hepatitis B virus replication after bone marrow transplantation: clinical course and possible treatment with ganciclovir. Mertens T, et al. **J Hepatol** 1996 Dec;25(6):968–71

Cytomegalovirus (CMV) culture results, drug resistance, and clinical outcome in patients with AIDS and CMV retinitis treated with foscarnet or ganciclovir. Studies of Ocular Complications of AIDS (SOCA) in collaboration with the AIDS Clinical Trial Group. **J Infect Dis** 1997 Jul; 176(1):50–8

Ganciclovir treatment of symptomatic congenital cytomegalovirus infection: results of a phase II study. National Institute of Allergy and Infectious Diseases Collaborative Antiviral Study Group. Whitley RJ, et al. **J Infect Dis** 1997 May;175(5):1080–6

Gene therapy for glioblastoma [correction of gliobestome] multiform: in vivo tumor transduction with the herpes simplex thymidine kinase gene followed by ganciclovir. Stockhammer G, et al. **J Mol Med** 1997 Apr;75(4):300–4

Combined ganciclovir and foscarnet in pediatric cytomegalovirus retinitis. Sastry SM, et al. **J Natl Med Assoc** 1996 Oct;88(10):661–2

Treatment of ganciclovir-resistant human cytomegalovirus infection. Grossi P, et al. **J Nephrol** 1997 May–Jun; 10(3):146–51 (90 ref.)

Prevention of CMV disease in allogeneic BMT recipients by cytomegalovirus antigenemia-guided preemptive ganciclovir therapy. Koehler M, et al. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):43–7

Adenoviral thymidine kinase prodrug gene therapy inhibits sarcoma growth in vivo. Ross HM, et al. **J Surg Res** 1997 Jun;70(1):7–11

Human cytomegalovirus DNA kinetics using a novel HCMV DNA quantitative assay in white blood cells of immunocompromised patients under Ganciclovir therapy. Payan C, et al. **J Virol Methods** 1997 Apr;65(1):131–8

Some antivirals may lower Kaposi's sarcoma risk [news] Larkin M. **Lancet** 1996 Sep 21;348(9030):812

Oral ganciclovir as prophylaxis against cytomegalovirus [letter; comment] Pulido F, et al. **N Engl J Med** 1996 Oct 31;335(18):1396; discussion 1396–7. Comment on: N Engl J Med 1996 Jun 6;334(23):1491–7.

Oral ganciclovir as prophylaxis against cytomegalovirus [letter; comment] Wood CA. **N Engl J Med** 1996 Oct 31; 335(18):1395; discussion 1396–7. Comment on: N Engl J Med 1996 Jun 6;334(23):1491–7.

Epstein-Barr virus-driven gene therapy for EBV-related lymphomas. Franken M, et al. **Nat Med** 1996 Dec; 2(12):1379–82

Treatment of Rasmussen's syndrome with ganciclovir. McLachlan RS, et al. **Neurology** 1996 Oct;47(4):925–8

In vivo 31P MRS evaluation of ganciclovir toxicity in C6 gliomas stably expressing the herpes simplex thymidine kinase gene. Stegman LD, et al. **NMR Biomed** 1996 Dec; 9(8):364–8

Cytomegalovirus papillitis in patients with acquired immune deficiency syndrome. Visual prognosis of patients treated with ganciclovir and/or foscarnet. Patel SS, et al. **Ophthalmology** 1996 Sep;103(9):1476–82

Combined intravenous ganciclovir and foscarnet for children with recurrent cytomegalovirus retinitis. Walton RC, et al. **Ophthalmology** 1995 Dec;102(12):1865–70

The treatment of AIDS-related cytomegalovirus disease with ganciclovir and foscarnet association. Three case reports. Manfredi R, et al. **Recenti Prog Med** 1996 Nov;87(11):545–8

Successful treatment of progressive outer retinal necrosis syndrome. Spaide RF, et al. **Retina** 1996;16(6):479–87

Serum polymerase chain reaction for cytomegalovirus DNA for monitoring ganciclovir treatment in AIDS patients. Marenzi R, et al. **Scand J Infect Dis** 1996;28(4):347–51

New lead to safer marrow transplants [news; comment] Wickelgren I. **Science** 1997 Jun 13;276(5319):1646. Comment on: Science 1997 Jun 13;276(5319):1719–24.

Effect of gene therapy with the herpes simplex virus-thymidine kinase gene on hepatic metastasis in murine colon cancer. Hayashi S, et al. **Surg Today** 1997;27(1):40–3

Outcomes among pediatric heart transplant recipients. Gajarski RJ, et al. **Tex Heart Inst J** 1997;24(2):97–104

Role of PCR in the diagnosis and management of CMV in solid organ recipients: what is the predictive value for development of disease and should PCR be used to guide antiviral therapy? Abecassis MM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):800–1

Polymerase chain reaction-triggered preemptive or deferred therapy to control cytomegalovirus-associated morbidity and costs in renal transplant patients. Brennan DC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):809–11

Improved survival with cytomegalovirus infection after intestinal transplantation in children. Bueno J, et al. **Transplant Proc** 1996 Oct;28(5):2770–1

Cytomegalovirus infection in kidney transplantation: prophylaxis and management. Bulinski P, et al. **Transplant Proc** 1996 Dec;28(6):3310–1

Ganciclovir prophylaxis of cytomegalovirus disease. Conti DJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):804–6

Treatment of hepatitis B virus replication by ganciclovir in kidney transplant patients. Garnier JL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):817

CMV infection after kidney transplantation in children. Lehnert A, et al. **Transplant Proc** 1996 Oct;28(5):2805

Cytomegalovirus prophylaxis by ganciclovir followed by high-dose acyclovir in renal transplantation: a randomized, controlled trial. Pouteil-Noble C, et al. **Transplant Proc** 1996 Oct;28(5):2811

Long-term prognosis of renal transplantation after preemptive treatment of cytomegalovirus infection. Akposso K, et al. **Transplantation** 1997 Apr 15;63(7):974–6

Failure of ganciclovir treatment associated with selection of a ganciclovir-resistant cytomegalovirus strain in a lung transplant recipient. Alain S, et al. **Transplantation** 1997 May 27;63(10):1533–6

Combined foscarnet-ganciclovir treatment for cytomegalovirus infections after allogeneic hemopoietic stem cell transplantation. Bacigalupo A, et al. **Transplantation** 1996 Aug 15;62(3):376–80

Prophylaxis of cytomegalovirus infection in liver transplantation: a randomized trial comparing a combination of ganciclovir and acyclovir to acyclovir. NIDDK Liver Transplantation Database. Badley AD, et al. **Transplantation** 1997 Jul 15;64(1):66–73

Cytomegalovirus induced up-regulation of LFA-3 (CD58) and ICAM-1 (CD54) is a direct viral effect that is not prevented by ganciclovir or foscarnet treatment. Craigen JL, et al. **Transplantation** 1996 Oct 27;62(8):1102–8

Reduced incidence of Epstein-Barr virus-associated posttransplant lymphoproliferative disorder using preemptive antiviral therapy. Darenkov IA, et al. **Transplantation** 1997 Sep 27;64(6):848–52

Development of ganciclovir resistance during treatment of primary cytomegalovirus infection after liver transplantation. Rosen HR, et al. **Transplantation** 1997 Feb 15;63(3):476–8

Eradication of cytomegalovirus reactivation disease using high-dose acyclovir and targeted intravenous ganciclovir in kidney and kidney/pancreas transplantation. Shen GK, et al. **Transplantation** 1997 Sep 27;64(6):931–3

[Should recurrent Cytomegalovirus infections in patients with liver transplantation be treated?] Tarp BD, et al. **Ugeskr Laeger** 1997 May 26;159(22):3413–6 (Eng. Abstr.) **(Dan)**

[Treatment with ganciclovir of congenital cytomegalovirus infections (letter)] Guimarães H, et al. **Arch Pediatr** 1996 Jun;3(6):609–10 **(Fre)**

[Acquired cytomegalovirus infection in infants. A case successfully treated with ganciclovir] Dündaröz R, et al. **Presse Med** 1997 Jun 21;26(21):1000–1 (Eng. Abstr.) **(Fre)**

[Ganciclovir-resistant cytomegalovirus infection: 2 cases with different clinical impact] Reusser P, et al. **Schweiz Med Wochenschr** 1996 Oct 19;126(42):1779–84 (Eng. Abstr.) **(Ger)**

[Interstitial pulmonitis due to the cytomegalovirus in an immunocompetent adolescent: treatment with ganciclovir] Pellegrini G, et al. **Pediatr Med Chir** 1996 May–Jun; 18(3):315–7 (19 ref.) (Eng. Abstr.) **(Ita)**

[Successful diagnosis and treatment of a case of cytomegalovirus infection in a previously healthy adult by antigenemia assay] Nagata S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):225–8 (15 ref.) **(Jpn)**

[Prophylaxis secondary to retinitis by CMV in patients with AIDS: the efficacy of an intermittent schedule of 3 days/week] Mallolas J, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):61–4 (Eng. Abstr.) **(Spa)**

TOXICITY

Cytogenetic genotoxicity of antiherpes virostatics in Chinese hamster V79-E cells. I. Purine nucleoside analogues. Thust R, et al. **Antiviral Res** 1996 Jun;31(1–2):105–13

Liver-associated toxicity of the HSV-tk/GCV approach and adenoviral vectors. Brand K, et al. **Cancer Gene Ther** 1997 Jan–Feb;4(1):9–16

Protection of herpes simplex virus thymidine kinase-transduced cells from ganciclovir-mediated cytotoxicity by bystander cells: the Good Samaritan effect. Wygoda MR, et al. **Cancer Res** 1997 May 1;57(9):1699–703

Gene transfer in hepatocarcinoma cell lines: in vitro optimization of a virus-free system. Ghoumari AM, et al. **Gene Ther** 1996 Jun;3(6):483–90

Differential toxicity of ganciclovir for rat neurons and astrocytes in primary culture following adenovirus-mediated transfer of the HSVtk gene. Maron A, et al. **Gene Ther** 1997 Jan;4(1):25–31

In vitro sensitization of the B16 murine melanoma cells to ganciclovir by different RNA and plasmid DNA constructions encoding HSVtk. Yarovoi SV, et al. **Gene Ther** 1996 Oct;3(10):913–8

Adenoviral-mediated thymidine kinase gene transfer into the primate brain followed by systemic ganciclovir: pathologic, radiologic, and molecular studies. Goodman JC, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1241–50

Intravitreal application of ganciclovir in rabbits: ERG and electron-microscopic findings. Moschos M, et al. **Ophthalmologica** 1996;210(4):215–22

GANGLIA

Activity of primary auditory neurons in the cochlear ganglion of the emu Dromaius novaehollandiae: spontaneous discharge, frequency tuning, and phase locking. Manley GA, et al. **J Acoust Soc Am** 1997 Mar; 101(3):1560–73

Deep posterior knee pain caused by a ganglion of the popliteus tendon--a case report. Weber D, et al.

GANGLIA

Knee Surg Sports Traumatol Arthrosc 1996;4(3):157–9
Cutaneous neural heterotopias and related tumors relevant for the dermatopathologist. Argenyi ZB.
Semin Diagn Pathol 1996 Feb;13(1):60–71 (62 ref.)

ANATOMY & HISTOLOGY

Quantitative study and architecture of nerves and ganglia of the rat heart. de Souza RR, et al. **Acta Anat (Basel)** 1996;156(1):53–60
Immunohistochemical and Ultrastructural characterization of the terminal nerve ganglion cells of the ayu, Plecoglossus altivelis (Salmoniformes, Teleostei). Chiba A, et al.
Anat Rec 1996 Dec;246(4):549–56
The cranial nerves of the Senegal bichir, Polypterus senegalus [osteichthyes: actinopterygii: cladistia]. Piotrowski T, et al.
Brain Behav Evol 1996;47(2):55–102 (66 ref.)
NADPH-diaphorase-positive ganglion cells of the rat adrenal gland: age- and sex-related changes in their number, size, and distribution. Cracco CM, et al.
J Comp Neurol 1996 Feb 26;366(1):181–96
Morphology of retinal ganglion cells in a new world monkey, the marmoset Callithrix jacchus. Ghosh KK, et al.
J Comp Neurol 1996 Feb 26;366(1):76–92
Comparison of photoreceptor spatial density and ganglion cell morphology in the retina of human, macaque monkey, cat, and the marmoset Callithrix jacchus. Goodchild AK, et al. **J Comp Neurol** 1996 Feb 26;366(1):55–75
Topography of cardiac ganglia in the adult human heart. Singh S, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):943–53
Intrinsic neuronal cell bodies in the rat ovary. D'Albora H, et al. **Neurosci Lett** 1996 Feb 16;205(1):65–7

CHEMISTRY

Presence and localization of neurotrophin receptor tyrosine kinase (TrkA, TrkB, TrkC) mRNAs in visceral afferent neurons of the nodose and petrosal ganglia. Zhuo H, et al. **Brain Res Mol Brain Res** 1996 May;38(1):63–70
Laminin immunoreactivity in enteric ganglia of the chick embryo. Balaskas C, et al. **Cell Tissue Res** 1997 Aug; 289(2):243–51
Immunohistochemical studies on the intramural nerve in the chicken intestine. Suzuki M, et al. **Eur J Histochem** 1996; 40(2):109–18
beta 2-adrenoreceptor immunoreactivity in cardiac ganglia of the guinea pig. Haberberger R, et al. **Histochem J** 1996 Nov;28(11):827–33
A double-label immunohistochemical study of intramural ganglia from the human male urinary bladder neck. Dixon JS, et al. **J Anat** 1997 Jan;190 (Pt 1):125–34
Localization of androgen receptor in nitric oxide synthase- and vasoactive intestinal peptide-containing neurons of the major pelvic ganglion innervating the rat penis. Schirar A, et al. **J Neuroendocrinol** 1997 Feb;9(2):141–50
Opioid receptor types for endogenous enkephalin in the thoracic ganglion of the crab, Carcinus maenas. Hanke J, et al. **Peptides** 1996;17(6):965–72

CYTOLOGY

Gross and microscopic anatomy of the human intrinsic cardiac nervous system. Armour JA, et al. **Anat Rec** 1997 Feb;247(2):289–98
Morphology and electrophysiology of guinea-pig paratracheal neurones. Lees GM, et al. **Anat Rec** 1997 Feb; 247(2):261–70
Identification of the cholinergic neurons in guinea-pig sphincter of Oddi ganglia. Talmage EK, et al.
J Auton Nerv Syst 1997 May 12;64(1):12–8
Dissection of the external and internal submucous plexuses of the pig small intestine. Thomsen L, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1997 Jan; 13(1):55–8
Morphology of locust neurosecretory cells projecting into the Nervus corporis allati II of the suboesophageal ganglion. Bräunig P, et al. **Microsc Res Tech** 1996 Oct 15; 35(3):230–41
Glial cells in insect ganglia. Cantera R, et al.
Microsc Res Tech 1996 Oct 15;35(3):285–93
Neuroanatomy and immunocytochemistry of the median neuroendocrine cells of the subesophageal ganglion of the tobacco hawkmoth, Manduca sexta: immunoreactivities to PBAN and other neuropeptides. Davis NT, et al.
Microsc Res Tech 1996 Oct 15;35(3):201–29

DRUG EFFECTS

Central projections and entries of capsaicin-sensitive muscle afferents. Della Torre G, et al. **Brain Res** 1996 Mar 25; 713(1–2):223–31
Stimulation of formation of adenosine 3',5'-phosphate by histamine in myenteric ganglia isolated from guinea-pig small intestine. Xia Y, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):81–5
5-Hydroxytryptamine depolarizes neurons of cat pancreatic ganglia. Ma RC, et al. **J Auton Nerv Syst** 1996 Feb 5; 57(1–2):78–86
Effects of adrenergic, cholinergic and ganglionic blockade on acute depressor responses to metformin in spontaneously hypertensive rats. Muntzel MS, et al.
J Pharmacol Exp Ther 1997 May;281(2):618–23
Modulation by opioid peptides of mechanosensory pathways supplying the guinea-pig inferior mesenteric ganglion. Ma RC, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):435–45
Identification of functional receptors for ciliary neurotrophic factor on chick ciliary ganglion neurons. Koshlukova S, et al. **Neuroscience** 1996 Jun;72(3):821–32
Patient-administered sphenopalatine ganglion block. Saade E, et al. **Reg Anesth** 1996 Jan-Feb;21(1):68–70

EMBRYOLOGY

Null mutation of mCOUP-TFI results in defects in morphogenesis of the glossopharyngeal ganglion, axonal projection, and arborization. Qiu Y, et al. **Genes Dev** 1997 Aug 1;11(15):1925–37
Transient fetal structure, the gangliothalamic body, connects telencephalic germinal zone with all thalamic regions in the developing human brain. Letinić K, et al.
J Comp Neurol 1997 Aug 4;384(3):373–95

ENZYMOLOGY

Nitric oxide synthase-containing nerves and ganglia in the dog prostate: a comparison with other transmitters. Hedlund P, et al. **Histochem J** 1996 Sep;28(9):635–42
Distribution of NADPH-diaphorase and nitric oxide synthase-containing neurons in the intramural ganglia of guinea pig urinary bladder. Zhou Y, et al. **J Anat** 1997 Jan;190 (Pt 1):135–45

METABOLISM

Pharmacology of neuronal nicotinic acetylcholine receptor subtypes. Colquhoun LM, et al. **Adv Pharmacol** 1997; 39:191–220 (150 ref.)
Endogenous adenosine inhibits evoked substance P release from perifused networks of myenteric ganglia. Moneta NA, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G38–45
Retinal development: communication helps you see the light. Wechsler-Reya RJ, et al. **Curr Biol** 1997 Jul 1;7(7):R433–6 (16 ref.)
Suppression of cAMP formation by adenosine in myenteric ganglia from guinea-pig small intestine. Xia Y, et al.
Eur J Pharmacol 1997 Feb 5;320(1):95–101
Stimulation of formation of adenosine 3',5'-phosphate by histamine in myenteric ganglia isolated from guinea-pig small intestine. Xia Y, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):81–5
Effects of denervation on acetylcholine receptor clusters on frog cardiac ganglion neurons as revealed by quantitative laser scanning confocal microscopy. Horch HL, et al.
J Neurosci 1996 Mar 1;16(5):1720–9
Immunohistochemical localization of a metabotropic glutamate receptor, mGluR7, in ganglion neurons of the rat; with special reference to the presence in glutamatergic ganglion neurons. Li JL, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):9–12
Quantitative analysis of mu and delta opioid receptor gene expression in rat brain and peripheral ganglia using competitive polymerase chain reaction. Büzás B, et al.
Neuroscience 1997 Jan;76(2):479–89
Functional characterization of the novel neuronal nicotinic acetylcholine receptor ligand GTS-21 in vitro and in vivo. Briggs CA, et al. **Pharmacol Biochem Behav** 1997 May-Jun; 57(1–2):231–41

PATHOLOGY

Ganglionic cyst of the deep peroneal nerve: description of a case. Ciucci G, et al. **Ital J Neurol Sci** 1996 Feb;17(1):83–6
Membrane leakage in spinal ganglion nerve cells induced by experimental whiplash extension motion: a study in pigs. Ortengren T, et al. **J Neurotrauma** 1996 Mar;13(3):171–80
Variant Hirschsprung's disease. Puri P. **J Pediatr Surg** 1997 Feb;32(2):149–57 (52 ref.)

PHYSIOLOGY

Neurophysiological modeling of voiding in rats: bladder pressure and postganglionic bladder nerve activity. Le Feber J, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R413–21
Retinal physiology: adapting to the changing scene. Shapley R. **Curr Biol** 1997 Jul 1;7(7):R421–3 (14 ref.)
Short- and long-term transganglionic changes in the central terminations of transected vibrissal afferents in the rat. Bjelke K, et al. **Exp Brain Res** 1996 Nov;112(2):268–76
Embryonic and postembryonic development of serial homologous neurons in the subesophageal ganglion of Tenebrio molitor (Insecta: Coleoptera). Breidbach O, et al. **Microsc Res Tech** 1996 Oct 15;35(3):180–200
gamma-Aminobutyric acid enhances the light response of ganglion cells in the trout pineal organ. Brandstätter R, et al. **Neurosci Lett** 1996 Jun 7;210(3):173–6
Distinct preganglionic neurons innervate noradrenaline and adrenaline cells in the cat adrenal medulla. Edwards SL, et al. **Neuroscience** 1996 Feb;70(3):825–32

SECRETION

Release of calcitonin gene-related peptide in guinea pig inferior mesenteric ganglion. Ma RC, et al. **Peptides** 1996; 17(1):161–70

ULTRASTRUCTURE

[Electron microscopic study of the nervous apparatus of the sinoatrial region of the human heart in alcoholic cardiomyopathy] Pavlovich ER. **Arkh Patol** 1996 Sep-Oct; 58(5):23–8 (Eng. Abstr.) **(Rus)**

VIROLOGY

A viral function represses accumulation of transcripts from productive-cycle genes in mouse ganglia latently infected with herpes simplex virus. Chen SH, et al. **J Virol** 1997 Aug;71(8):5878–84
A simian varicella virus (SVV) homolog to varicella-zoster virus gene 21 is expressed in monkey ganglia latently infected with SVV. Clarke P, et al. **J Virol** 1996 Aug; 70(8):5711–5

GANGLIA, AUTONOMIC

ABNORMALITIES

Defects in sensory and autonomic ganglia and absence of locus coeruleus in mice deficient for the homeobox gene Phox2a. Morin X, et al. **Neuron** 1997 Mar;18(3):411–23

ANATOMY & HISTOLOGY

Morphological study of neurons in the nerve plexus on heart base of rats and guinea pigs. Pauza DH, et al.
J Auton Nerv Syst 1997 Jan 12;62(1–2):1–12
Cardiac neurones of autonomic ganglia. Wallis D, et al.
Microsc Res Tech 1996 Sep 1;35(1):69–79 (80 ref.)

CHEMISTRY

Distribution of some neuropeptides in the porcine inferior mesenteric ganglion. Lakomy M, et al.
Folia Histochem Cytobiol 1996;34(2):85–90
Cloning of a new chicken trkC extracellular isoform and its mRNA expression in E9 sensory and autonomic ganglia. Bäckström A, et al. **Int J Dev Neurosci** 1997 Jun; 15(3):275–84

CYTOLOGY

A light and electron microscope study of the connections between the preganglionic fibers and the intralingual ganglion cells in the rat. Tsumori T, et al.
Anat Embryol (Berl) 1996 Dec;194(6):559–68
Androgens modulate nitric oxide synthase messenger ribonucleic acid expression in neurons of the major pelvic ganglion in the rat. Schirar A, et al. **Endocrinology** 1997 Aug;138(8):3093–102
[The interneuronal connections in the intramural ganglia of the human esophagus] Konkin IF.
Arkh Anat Gistol Embriol 1968 Nov;55(11):78–81 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Colocalisation of NADPH-diaphorase with neuropeptides in the ureterovesical ganglia of humans. Grozdanovic Z, et al. **Acta Histochem** 1996 Jul;98(3):245–53
Cathepsin D in intestinal ganglion cells. A potential aid to diagnosis in suspected Hirschsprung's disease. Abu-Alfa AK, et al. **Am J Surg Pathol** 1997 Feb;21(2):201–5
Cytochrome oxidase staining in the major pelvic ganglion of the male rat. Dail WG, et al. **J Auton Nerv Syst** 1997 Jul 14;65(1):57–64

IMMUNOLOGY

Existence and dissemination of blood serum immunoglobulins in the tissue of the rat nerve ganglia. Knyazeva LA, et al. **Biochem Soc Trans** 1997 May;25(2):162S

METABOLISM

Co-localisation of tyrosine hydroxylase, nitric oxide synthase and neuropeptides in neurons of the human postnatal male pelvic ganglia. Jen PY, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):41–50
Immunochemical study of galanin in the cat digestive tract and autonomic ganglia. Philippe C, et al. **Peptides** 1996; 17(8):1331–5

PATHOLOGY

Autonomic ganglionitis with severe hypertension, migraine, and episodic but fatal hypotension. Lee HC, et al.
Neurology 1996 Sep;47(3):817–21
Evidence of serum proteins in neurons of autonomic ganglia from horses with 'mal seco'. Giruaudo Conesa LA, et al.
Vet Rec 1996 Jun 29;138(26):646–7
[Age-related changes in the autonomic ganglia] Sosunov AA, et al. **Arkh Patol** 1997 Mar-Apr;59(2):32–7 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Actions of calcitonin gene-related peptide in guinea pig gallbladder ganglia. Gokin AP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G876–83
Pituitary adenylate cyclase-activating peptide in sensory and autonomic ganglia: localization and regulation. Sundler F, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:410–26; discussion 427–8 (76 ref.)
Denervation-induced changes in perineuronal plexuses in the major pelvic ganglion of the rat: immunohistochemistry for vasoactive intestinal polypeptide and tyrosine

hydroxylase and histochemistry for NADPH-diaphorase. Dail WG, et al. **Cell Tissue Res** 1997 Feb;287(2):315-24

The pyloric pattern of the lobster (Panulirus interruptus) stomatogastric ganglion comprises two phase-maintaining subsets. Hooper SL. **J Comput Neurosci** 1997 Jul; 4(3):207-19

Phase maintenance in the pyloric pattern of the lobster (Panulirus interruptus) stomatogastric ganglion. Hooper SL. **J Comput Neurosci** 1997 Jul;4(3):191-205

Characterization of voltage-sensitive Na+ and K+ currents recorded from acutely dissociated pelvic ganglion neurons of the adult rat. Yoshimura N, et al. **J Neurophysiol** 1996 Oct;76(4):2508-21

Functional, biochemical and anatomical changes in the rat urinary bladder induced by periangliar injection of colchicine. Lecci A, et al. **Neuroscience** 1996 Mar; 71(1):285-96

Expression and regulation of the neuropeptide Y Y2 receptor in sensory and autonomic ganglia. Zhang X, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):729-34

ULTRASTRUCTURE

[Multinuclear neurons in the ganglia of the gastrointestinal tract] Gaĭvoronskiĭ IV, et al. **Morfologiia** 1996;110(6):65-71 (Eng. Abstr.) **(Rus)**

[Interneuronal interrelationships in autonomic ganglia (the ultrastructural aspects)] Krugliakov PP, et al. **Morfologiia** 1997;111(1):35-9 (Eng. Abstr.) **(Rus)**

GANGLIA, BASAL see **BASAL GANGLIA**

GANGLIA, INTRAOSSEOUS see **BONE CYSTS**

GANGLIA, INVERTEBRATE

ANATOMY & HISTOLOGY

Gangliogenesis in the prosobranch gastropod Ilyanassa obsoleta. Lin MF, et al. **J Comp Neurol** 1996 Oct 14; 374(2):180-93

Anatomy and targets of Dorsal Unpaired Median neurones in the Terminal Abdominal Ganglion of the male cockroach Periplaneta americana L. Sinakevitch IG, et al. **J Comp Neurol** 1996 Mar 25;367(1):147-63

Localization of S1- and S2-like immunoreactivity in the nervous system of the brittle star Amphipholis squamata (Delle Chiaje 1828). de Bremaeker N, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):667-74

CHEMISTRY

Cholinergic, serotoninergic and peptidergic components of the nervous system of Haematoloechus medioplexus (Trematoda, Digenea), characterised by cytochemistry. Humphries JE, et al. **Int J Parasitol** 1997 May;27(5):517-25

Silver lampreys (Ichthyomyzon unicuspis) lack a gonadotropin-releasing hormone- and FMRFamide-immunoreactive terminal nerve. Eisthen HL, et al. **J Comp Neurol** 1996 Jun 24;370(2):159-72

GC/MS determination of biogenic amines in insect neurons. Watson DG, et al. **Methods Mol Biol** 1997;72:225-37

Localization of interleukin-1 beta mRNA in the cerebral ganglion of the protochordate, Styela plicata. Pestarino M, et al. **Neurosci Lett** 1997 Feb 7;222(3):151-4

Purification, primary structure, and neuronal localization of cerebral peptide 1 from Aplysia. Phares GA, et al. **Peptides** 1996;17(5):753-61

[Effect of a peptide from the mollusk optical ganglia on macrophage functional activity] Besednova NN, et al. **Antibiot Khimioter** 1996 Jan;41(1):7-12 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Tyrosine hydroxylase-negative, dopaminergic neurons are targets for transmitter-depleting action of haloperidol in the snail brain. Sakharov DA, et al. **Cell Mol Neurobiol** 1996 Aug;16(4):451-61

Distribution of FMRFamide-like immunoreactivity in the nervous system of Lumbricus terrestris. Reglödi D, et al. **Cell Tissue Res** 1997 Jun;288(3):575-82

Immunochemical demonstration of Eisenia tetradecapeptide, a bioactive peptide isolated from the gut of the earthworm Eisenia foetida, in tissues of the earthworm. Ukena K, et al. **Cell Tissue Res** 1997 Jun;288(3):567-73

Effect of feedback from peripheral movements on neuron activity in the aplysia abdominal ganglion. Höpp HP, et al. **Eur J Neurosci** 1996 Sep;8(9):1865-72

Neuroanatomy of a crayfish thoracic ganglion: sensory and motor roots of the walking-leg nerves and possible homologies with insects. Elson RC. **J Comp Neurol** 1996 Jan 29;365(1):1-17

Morphology and physiology of abdominal projection interneurones in the locust with mechanosensory inputs from ovipositor hair receptors. Kalogianni E. **J Comp Neurol** 1996 Mar 18;366(4):656-73

Morphology of interneurons in the procerebrum of the snail Helix aspersa. Ratté S, et al. **J Comp Neurol** 1997 Aug 4;384(3):359-72

Dextran backfill tracers combined with Lucifer yellow injections for neuroanatomic studies of the leech head ganglion. Daberkow DP, et al. **J Neurosci Methods** 1996 Aug;67(2):149-55

Putative neuroendocrine cells in the Aplysia cerebral ganglion. Soinila S, et al. **Neurosci Res** 1996 Jul; 25(3):209-16

[Consequences of exposure to extreme conditions in somatic cells of Drosophila melanogaster under conditions of disturbed synthesis of heat shock proteins] Kutskova IUA, et al. **Genetika** 1996 Oct;32(10):1406-16 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Protein phosphatase activity is required for prothoracicotropic hormone-stimulated ecdysteroidogenesis in the prothoracic glands of the tobacco hornworm, Manduca sexta. Song Q, et al. **Arch Insect Biochem Physiol** 1996;31(4):465-80

Delta and kappa opioid receptors in eyestalk ganglia of a crustacean. Hanke J, et al. **Brain Res** 1997 Jan 9; 744(2):279-84

Kainate responses of leech Retzius neurons in situ and in vitro. Löhrke S, et al. **J Neurobiol** 1996 Nov;31(3):345-58

Octopamine induces steady-state reflex reversal in crayfish thoracic ganglia. Skorupski P. **J Neurophysiol** 1996 Jul; 76(1):93-108

Modulation of oscillator interactions in the crab stomatogastric ganglion by crustacean cardioactive peptide. Weimann JM, et al. **J Neurosci** 1997 Mar 1;17(5):1748-60

A method to study the effects of an epileptic focus on non-epileptic nervous tissue. Wiemann M, et al. **J Neurosci Methods** 1996 Oct;68(2):137-41

EMBRYOLOGY

Control of early neurogenesis of the Drosophila brain by the head gap genes tll, otd, ems, and btd. Younossi-Hartenstein A, et al. **Dev Biol** 1997 Feb 15; 182(2):270-83

ENZYMOLOGY

Putative nitric oxide synthase (NOS)-containing cells in the central nervous system of the leech, Hirudo medicinalis: NADPH-diaphorase histochemistry. Leake LD, et al. **Brain Res** 1996 Jun 3;723(1-2):115-24

NADPH-diaphorase activity changes during gangliogenesis and metamorphosis in the gastropod mollusc Ilyanassa obsoleta. Lin MF, et al. **J Comp Neurol** 1996 Oct 14; 374(2):194-203

Effect of serotonin and neuropeptides on adenylate cyclase of the central nervous system and peripheral organs of the freshwater snail Planorbarius corneus. Ferretti ME, et al. **Neurochem Int** 1996 Apr;28(4):417-24

[Different aspects of the substrate specificity of the cholinesterase in the optical ganglia of the Pacific Ocean squid Todarodes pacificus] Rozengart EV, et al. **Zh Evol Biokhim Fiziol** 1996 Jul-Aug;32(4):384-92 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Neurogenesis in adult insect mushroom bodies. Cayre M, et al. **J Comp Neurol** 1996 Jul 22;371(2):300-10

NADPH-diaphorase activity changes during gangliogenesis and metamorphosis in the gastropod mollusc Ilyanassa obsoleta. Lin MF, et al. **J Comp Neurol** 1996 Oct 14; 374(2):194-203

Ontogeny of serotonergic neurons in Aplysia californica. Marois R, et al. **J Comp Neurol** 1997 Sep 29;386(3):477-90

METABOLISM

Morphine stimulates nitric oxide release from invertebrate microglia. Liu Y, et al. **Brain Res** 1996 May 25; 722(1-2):125-31

Organization of the stomatogastric neuropil of the crab, Cancer borealis, as revealed by modulator immunocytochemistry. Christie AE, et al. **Cell Tissue Res** 1997 Apr;288(1):135-48

Staining in the brain of Pachymorpha sexguttata mediated by an antibody against a Drosophila clock-gene product: labeling of cells with possible importance for the beetle's circadian rhythms. Frisch B, et al. **Cell Tissue Res** 1996 Dec;286(3):411-29

The distribution of histamine-immunoreactive neurons in the ventral nerve cord of the cricket, Gryllus bimaculatus. Hörner M, et al. **Cell Tissue Res** 1996 Dec;286(3):393-405

Amines and peptides in the brain of the American lobster: immunocytochemical localization patterns and implications for brain function. Langworthy K, et al. **Cell Tissue Res** 1997 Apr;288(1):191-206

Identification of PBAN-like peptides in the brain-subesophageal ganglion complex of lepidoptera using Western-blotting. Jacquin-Joly E, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):209-16

Soluble proteins in chemosensory organs of phasmids. Mameli M, et al. **Insect Biochem Mol Biol** 1996 Sep-Oct; 26(8-9):875-82

Cyclic AMP is a requisite messenger in the action of big PTTH in the prothoracic glands of pupal Manduca sexta. Smith WA, et al. **Insect Biochem Mol Biol** 1996 Feb; 26(2):161-70

A family of delayed rectifier Kv1 cDNAs showing cell type-specific expression in the squid stellate ganglion/giant fiber lobe complex. Rosenthal JJ, et al. **J Neurosci** 1997 Jul 1;17(13):5070-9

Nitric oxide and peptide neurohormones activate cGMP synthesis in the crab stomatogastric nervous system. Scholz NL, et al. **J Neurosci** 1996 Mar 1;16(5):1614-22

PHYSIOLOGY

Intracellular injection of cyclic AMP inhibits the dopamine-induced K(+)-dependent responses of Aplysia ganglion cells. Matsumoto M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:486-8

Identification of two phosphoproteins affected by serotonin in Aplysia sensory neurons. Homayouni R, et al. **Brain Res** 1997 Mar 7;750(1-2):87-94

Electrophysiological responses from receptor neurons in mosquito maxillary palp sensilla. Grant AJ, et al. **Ciba Found Symp** 1996;200:233-48; discussion 248-53, 281-4 (52 ref.)

Accurate synapse regeneration despite ablation of the distal axon segment. Mason A, et al. **Eur J Neurosci** 1996 Jan; 8(1):11-20

Sensory-induced plasticity of motor pattern selection in the lobster stomatogastric nervous system. Nargeot R, et al. **Eur J Neurosci** 1997 Aug;9(8):1636-45

Detecting low dimensional dynamics in biological experiments. Pei X, et al. **Int J Neural Syst** 1996 Sep; 7(4):429-35

Synapse distribution on VCH, an inhibitory, motion-sensitive interneuron in the fly visual system. Gauck V, et al. **J Comp Neurol** 1997 May 19;381(4):489-99

Development of serotonin-like immunoreactivity in the embryos and larvae of nudibranch mollusks with emphasis on the structure and possible function of the apical sensory organ. Kempf SC, et al. **J Comp Neurol** 1997 Sep 29; 386(3):507-28

Anatomy and targets of Dorsal Unpaired Median neurones in the Terminal Abdominal Ganglion of the male cockroach Periplaneta americana L. Sinakevitch IG, et al. **J Comp Neurol** 1996 Mar 25;367(1):147-63

Characterization of buccal motor programs elicited by a cholinergic agonist applied to the cerebral ganglion of Aplysia californica. Susswein AJ, et al. **J Comp Physiol [A]** 1996 Oct;179(4):509-24

Interneuronal and motor patterns during crawling behavior of semi-intact leeches. Baader AP. **J Exp Biol** 1997 May; 200 (Pt 9):1369-81

New electrical properties of neurons induced by a homeoprotein. Aisemberg GO, et al. **J Neurobiol** 1997 Jul; 33(1):11-7

Identification and characterization of cerebral ganglion neurons that induce swimming and modulate swim-related pedal ganglion neurons in Aplysia brasiliana. Gamkrelidze GN, et al. **J Neurophysiol** 1995 Oct;74(4):1444-62

Neural mechanisms of reflex reversal in coxo-basipodite depressor motor neurons of the crayfish. Le Ray D, et al. **J Neurophysiol** 1997 Apr;77(4):1963-78

Two types of identified ascending interneurons with distinct GABA receptors in the crayfish terminal abdominal ganglion. Miyata H, et al. **J Neurophysiol** 1997 Mar; 77(3):1213-23

Convergent chemical and electrical synaptic inputs from proprioceptive afferents onto an identified intersegmental interneuron in the crayfish. Nagayama T, et al. **J Neurophysiol** 1997 May;77(5):2826-30

Pyloric motor pattern modification by a newly identified projection neuron in the crab stomatogastric nervous system. Norris BJ, et al. **J Neurophysiol** 1996 Jan; 75(1):97-108

Properties of the nociceptive neurons of the leech segmental ganglion. Pastor J, et al. **J Neurophysiol** 1996 Jun; 75(6):2268-79

Photoinactivation of the giant neuropil glial cells in the leech Hirudo medicinalis: effects on neuronal activity and synaptic transmission. Schmidt J, et al. **J Neurophysiol** 1996 Nov;76(5):2861-71

Central pattern generator interneurons are targets for the modulatory serotonergic cerebral giant cells in the feeding system of Lymnaea. Yeoman MS, et al. **J Neurophysiol** 1996 Jan;75(1):11-25

Quantitative single-cell-reverse transcription-PCR demonstrates that A-current magnitude varies as a linear function of shal gene expression in identified stomatogastric neurons. Baro DJ, et al. **J Neurosci** 1997 Sep 1; 17(17):6597-610

Motor pattern selection via inhibition of parallel pathways. Blitz DM, et al. **J Neurosci** 1997 Jul 1;17(13):4965-75

Cholinergic control of the walking network in the crayfish Procambarus clarkii. Cattaert D, et al. **J Physiol Paris** 1995; 89(4-6):209-20

Study of the activity of head ganglion cells of larvae of the Drosophila ts-mutant with altered capacity for learning and increased activational properties of calmodulin. Tokmacheva EV. **Neurosci Behav Physiol** 1996 Sep-Dec; 26(5):435-40

Nicotine increases [Ca2+]i and regulates electrical activity in insect neurosecretory cells (DUM neurons) via an acetylcholine receptor with 'mixed' nicotinic-muscarinic pharmacology. Grolleau F, et al. **Neurosci Lett** 1996 Dec 13;220(2):142-6

Intracellular Ca2+, Na+ and H+ transients evoked by kainate in the leech giant glial cells in situ. Munsch T, et al. **Neurosci Res** 1997 Jan;27(1):45-56

Promotion of regeneration and axon growth following injury in an invertebrate nervous system by the use of

GANGLIA, INVERTEBRATE

three-dimensional collagen gels. Blackshaw SE, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):657-61

Neuropeptides, amines and amino acids in an elementary insect ganglion: functional and chemical anatomy of the unfused abdominal ganglion. Nässel DR. **Prog Neurobiol** 1996 Mar-Apr;48(4-5):325-420 (360 ref.)

[The effect of antibodies against nerve-specific protein S100 on calcium channels in the somatic membrane of snail neurons] Gainutdinov KhL, et al. **Dokl Akad Nauk** 1996 Oct;350(4):554-6 **(Rus)**

TRANSPLANTATION

Structure of allotransplanted ganglia and regenerated neuromuscular connections in crayfish. Krause KM, et al. **J Neurobiol** 1996 Aug;30(4):439-53

ULTRASTRUCTURE

Synapse distribution on VCH, an inhibitory, motion-sensitive interneuron in the fly visual system. Gauck V, et al. **J Comp Neurol** 1997 May 19;381(4):489-99

Structure of the forewing stretch receptor axon in immature and mature adult locusts. Gray JR, et al. **J Comp Neurol** 1996 Feb 5;365(2):268-77

Ultrastructure of the stomatogastric ganglion neuropil of the crab, Cancer borealis. Kilman VL, et al. **J Comp Neurol** 1996 Oct 21;374(3):362-75

GANGLIA, PARASYMPATHETIC

Vasomotor rhinitis and sphenopalatine ganglion block. Prasanna A, et al. **J Pain Symptom Manage** 1997 Jun; 13(6):332-8

Ganglionic local opioid analgesia for refractory trigeminal neuralgia [letter] Spacek A, et al. **Lancet** 1997 May 24; 349(9064):1521

Sphenopalatine blocks in the treatment of pain in fibromyalgia and myofascial pain syndrome. Janzen VD, et al. **Laryngoscope** 1997 Oct;107(10):1420-2

Sphenopalatine ganglion block relieves symptoms of trigeminal neuralgia: a case report. Manahan AP, et al. **Nebr Med J** 1996 Sep;81(9):306-9

[Cluster headache: misjudged because unknown (letter; comment)] Snijdelaar DG, et al. **Ned Tijdschr Geneeskd** 1997 Apr 19;141(16):796. Comment on: Ned Tijdschr Geneeskd 1997 Feb 15;141(7):313-5. **(Dut)**

ANATOMY & HISTOLOGY

A study of the structure and functions of the submandibular ganglion. Ng YK, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):793-801

Innervation of orbital and choroidal blood vessels by the pterygopalatine ganglion in pigeons. Cuthbertson S, et al. **J Comp Neurol** 1997 Sep 29;386(3):422-42

Interaction between parasympathetic and sympathetic nerves in prevertebral ganglia: morphological evidence for vagal efferent innervation of ganglion cells in the rat. Berthoud HR, et al. **Microsc Res Tech** 1996 Sep 1;35(1):80-6

CHEMISTRY

Expression of a chicken ciliary neurotrophic factor in targets of ciliary ganglion neurons during and after the cell-death phase. Finn TP, et al. **J Comp Neurol** 1996 Mar 18; 366(4):559-71

Synaptic and extrasynaptic distribution of two distinct populations of nicotinic acetylcholine receptor clusters in the frog cardiac ganglion. Wilson Horch HL, et al. **J Neurocytol** 1996 Jan;25(1):67-77

CYTOLOGY

Morpholological analyses of galaninergic inputs to the rat spinal parasympathetic nucleus. Ohmachi T, et al. **Exp Brain Res** 1996 Jun;109(3):399-406

Anatomical and electrophysiological comparison of the sensory innervation of bronchial and tracheal parasympathetic ganglion neurons. Myers A, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):162-8

Ciliary neurotrophic factor stimulates the phosphorylation of two forms of STAT3 in chick ciliary ganglion neurons. Wishingrad MA, et al. **J Biol Chem** 1997 Aug 8; 272(32):19752-7

Developmental changes in calcium current pharmacology and somatostatin inhibition in chick parasympathetic neurons. White MG, et al. **J Neurosci** 1997 Aug 15; 17(16):6302-13

The cardiac ganglia: cellular and molecular aspects. Baptista CA, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jan;13(1):42-54 (64 ref.)

Decreased neuronal nitric oxide synthase-immunoreactivity and NADPH-diaphorase activity in rat pterygopalatine ganglion parasympathetic neurons and cerebrovascular innervation following long-term sympathectomy. Warn JD, et al. **Neurosci Lett** 1997 Aug 22;232(1):25-8

DRUG EFFECTS

Cholecystokinin depolarizes neurons of cat pancreatic ganglion. Ma RC, et al. **Peptides** 1996;17(5):775-83

Opposite effects of nitric oxide on identified inhibitory and excitatory cholinergic synapses of Aplysia californica. Mothet JP, et al. **Physiol Res** 1996;45(3):177-83

EMBRYOLOGY

Spatial and temporal shifts in the regulation of neurogenesis in a peripheral ganglion. Heathcote RD. **J Comp Neurol** 1996 Nov 18;375(3):457-66

Mechanisms of GABA- and glycine-induced increases of cytosolic Ca2+ concentrations in chick embryo ciliary ganglion cells. Sorimachi M, et al. **J Neurochem** 1997 Aug; 69(2):797-805

Origin and morphogenesis of neurons in the frog cardiac ganglion. Heathcote RD. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jan; 13(1):36-41 (21 ref.)

METABOLISM

Nitrergic and VIPergic neurons in the choroid and ciliary ganglion of the duck Anis carina. Bergua A, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):239-48

Target tissue influence on somatostatin expression in the avian ciliary ganglion. Coulombe JN, et al. **Ann N Y Acad Sci** 1997 Apr 24;814:209-25 (54 ref.)

Pituitary adenylate cyclase activating polypeptide and nitric oxide synthase are expressed in the rat ciliary ganglion. Elsäs T, et al. **Br J Ophthalmol** 1997 Mar;81(3):223-7

Mechanisms of GABA- and glycine-induced increases of cytosolic Ca2+ concentrations in chick embryo ciliary ganglion cells. Sorimachi M, et al. **J Neurochem** 1997 Aug; 69(2):797-805

Chick ciliary ganglion neurons contain transcripts coding for acetylcholine receptor-associated protein at synapses (rapsyn). Burns AL, et al. **J Neurosci** 1997 Jul 1; 17(13):5016-26

Ca(2+)-activated K+ channels in rat otic ganglion cells: role of Ca2+ entry via Ca2+ channels and nicotinic receptors. Callister RJ, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):571-82

Single L-type calcium channel conductance with physiological levels of calcium in chick ciliary ganglion neurons. Church PJ, et al. **J Physiol (Lond)** 1996 Oct 1; 496 (Pt 1):59-68

Vascular permeability in the peripheral autonomic and somatic nervous systems: controversial aspects and comparisons with the blood-brain barrier. Kiernan JA. **Microsc Res Tech** 1996 Oct 1;35(2):122-36 (239 ref.)

PHYSIOLOGY

Muscarinic receptor regulation of synaptic transmission in airway parasympathetic ganglia. Myers AC, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L630-6

Neuroanatomic organization of the parasympathetic bronchomotor system in developing sheep. Pérez Fontán JJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R121-33

Quantitative electromicroscope study of the oculomotor parasympathetic neurons projecting to the ciliary ganglion in cats: comparison of the synaptic (axon-somatic and axo-proximal dendritic) organization of anterior-dorsal and ventral cell groups. Ichinohe N, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):229-38

A study of the structure and functions of the submandibular ganglion. Ng YK, et al. **Ann Acad Med Singapore** 1995 Nov;24(6):793-801

Diversity of calcium channel subtypes in presynaptic terminals of the chick ciliary ganglion. Yawo H. **Ann N Y Acad Sci** 1993 Dec 20;707:379-81

The ciliary ganglion and vitreous cavity shape. Lin T, et al. **Curr Eye Res** 1996 May;15(5):453-60

Anatomical and electrophysiological comparison of the sensory innervation of bronchial and tracheal parasympathetic ganglion neurons. Myers A, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):162-8

Rapid synaptic transmission in the avian ciliary ganglion is mediated by two distinct classes of nicotinic receptors. Ullian EM, et al. **J Neurosci** 1997 Oct 1;17(19):7210-9

Vesicle-associated proteins and calcium in nerve terminals of chick ciliary ganglia during development of facilitation. Lin YQ, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):639-56

Noradrenaline modulates transmitter release by enhancing the Ca2+ sensitivity of exocytosis in the chick ciliary presynaptic terminal. Yawo H. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):385-91

Interaction between parasympathetic and sympathetic nerves in prevertebral ganglia: morphological evidence for vagal efferent innervation of ganglion cells in the rat. Berthoud HR, et al. **Microsc Res Tech** 1996 Sep 1;35(1):80-6

Posttranslational regulation of Ca(2+)-activated K+ currents by a target-derived factor in developing parasympathetic neurons. Subramony P, et al. **Neuron** 1996 Jul;17(1):115-24

Cholinergic transmission in pancreatic ganglia of the cat. Sha L, et al. **Pancreas** 1997 Jan;14(1):83-93

Hemodynamic profile of neuropeptide Y in dogs: effect of ganglionic blockade. Hashim MA, et al. **Peptides** 1997; 18(2):235-9

Neuregulins stimulate the functional expression of Ca2+-activated K+ channels in developing chicken parasympathetic neurons. Subramony P, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5934-8

Axosomatic synapses of the rat ciliary ganglion. Robertson GN, et al. **Synapse** 1996 Mar;22(3):269-80

Agrin mRNA expression in the developing chick Edinger-Westphal nucleus. McAvoy M, et al. **Vis Neurosci** 1996 Mar-Apr;13(2):293-301

SURGERY

Stereotactic radiosurgical treatment of sphenopalatine neuralgia. Case report. Pollock BE, et al. **J Neurosurg** 1997 Sep;87(3):450-3

ULTRASTRUCTURE

Electron microscopic study of sprouting dendrites in the ciliary ganglia of cat and monkey (Macaca fascicularis) following pre- and post-ganglionic axotomy. Zhang YL, et al. **Histol Histopathol** 1997 Jan;12(1):1-8

An ultrastructural study of the innervation of the guinea pig pancreas. Liu HP, et al. **J Hirnforsch** 1997;38(1):107-17

An ultrastructural study of the ciliary ganglia of the cat and monkey (Macaca fascicularis) following preganglionic axotomy. Zhang YL, et al. **Neurodegeneration** 1996 Dec; 5(4):367-77

GANGLIA, SENSORY

ABNORMALITIES

Defects in sensory and autonomic ganglia and absence of locus coeruleus in mice deficient for the homeobox gene Phox2a. Morin X, et al. **Neuron** 1997 Mar;18(3):411-23

ANATOMY & HISTOLOGY

Localization of NADPH-diaphorase containing neurons in the spinal dorsal horn and spinal sensory ganglia of the turtle Chrysemys d'orbigny. Radmilovich M, et al. **Exp Brain Res** 1997 Mar;113(3):455-64

Structural diversity of the ordinary and specialized lateral line organs. Cernuda-Cernuda R, et al. **Microsc Res Tech** 1996 Jul 1;34(4):302-12 (60 ref.)

Sensory nerve formations in the skin and their classification [see comments] Malinovský L. **Microsc Res Tech** 1996 Jul 1;34(4):283-301 (135 ref.). Comment in: Microsc Res Tech 1996 Jul 1;34(4):281-2.

Cutaneous sensory nerve formations as studied with impregnation techniques: notes about a simple and reliable method. Tolivia Fernández D. **Microsc Res Tech** 1996 Jul 1;34(4):390-6

Cutaneous sensory nerve formations: an overview [comment] Vega JA. **Microsc Res Tech** 1996 Jul 1;34(4):281-2 (33 ref.) . Comment on: Microsc Res Tech 1996 Jul 1;34(4):283-301.

CHEMISTRY

Pituitary adenylate cyclase-activating peptide-immunoreactive nerve fibers in the cat eye. Elsås T, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Sep; 234(9):573-80

Cloning of a new chicken trkC extracellular isoform and its mRNA expression in E9 sensory and autonomic ganglia. Bäckström A, et al. **Int J Dev Neurosci** 1997 Jun; 15(3):275-84

[Effect of a peptide from the mollusk optical ganglia on macrophage functional activity] Besednova NN, et al. **Antibiot Khimioter** 1996 Jan;41(1):7-12 (Eng. Abstr.) **(Rus)**

CYTOLOGY

The central distribution of primary afferents from the external eyelids, conjunctiva, and cornea in the rabbit, studied using WGA-HRP and B-HRP as transganglionic tracers. van Ham JJ, et al. **Exp Neurol** 1996 Dec;142(2):217-25

Mice with a targeted disruption of the neurotrophin receptor trkB lose their gustatory ganglion cells early but do develop taste buds. Fritzsch B, et al. **Int J Dev Neurosci** 1997 Jul; 15(4-5):563-76

DRUG EFFECTS

AMPA receptors in cultured vestibular ganglion neurons: detection and activation. Rabejac D, et al. **Eur J Neurosci** 1997 Feb;9(2):221-8

Effects of carbamazepine on membrane properties of rat sensory spinal ganglion cells in vitro. Schirrmacher K, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):501-7

Activation of large conductance potassium channels inhibits the afferent and efferent function of airway sensory nerves in the guinea pig. Fox AJ, et al. **J Clin Invest** 1997 Feb 1;99(3):513-9

Neurotrophic effects of BDNF and CNTF, alone and in combination, on postnatal day 5 rat acoustic ganglion neurons. Hartnick CJ, et al. **J Neurobiol** 1996 Jun; 30(2):246-54

Capsaicin-induced rapid receptive field reorganization in cuneate neurons. Pettit MJ, et al. **J Neurophysiol** 1996 Mar; 75(3):1117-25

Reversal of relative thresholds for synaptic facilitation and increased excitability induced by serotonin and tail nerve stimulation in Aplysia sensory neurons. Bunge SA, et al. **Neurobiol Learn Mem** 1997 May;67(3):259-63

EMBRYOLOGY

Rescue of sensory ganglia that are programmed to degenerate in normal development: evidence that NGF modulates proliferation of DRG cells in vivo. Geffen R, et al. **Dev Biol** 1996 Aug 25;178(1):51-62

Molecules relating to the neurogenesis of the sensory ganglion. Tohyama M. **Prog Brain Res** 1996;113:243–52 (15 ref.)

ENZYMOLOGY

Ultrastructural localization of NADPH–diaphorase activity in the submucous ganglia of the guinea–pig intestine after vagotomy. Wang XY, et al. **Anat Embryol (Berl)** 1996 Jun; 193(6):611–7

Distribution of NADPH–diaphorase in the central nervous system of an infrared–sensitive snake, Trimeresurus flavoviridis. Jiang PJ, et al. **Brain Res** 1996 Mar 25; 713(1–2):168–77

Subunits of soluble guanylyl cyclase in rat and guinea–pig sensory ganglia. Kummer W, et al. **Brain Res** 1996 May 20;721(1–2):191–5

Enzyme histochemistry of cutaneous sensory nerve formations. Dubový P. **Microsc Res Tech** 1996 Jul 1; 34(4):334–50 (110 ref.)

Catechol–O–methyltransferase in rat sensory ganglia and spinal cord. Karhunen T, et al. **Neuroscience** 1996 Jul; 73(1):267–76

[Different aspects of the substrate specificity of the cholinesterase in the optical ganglia of the Pacific Ocean squid Todarodes pacificus] Rozengart EV, et al. **Zh Evol Biokhim Fiziol** 1996 Jul–Aug;32(4):384–92 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

Degeneration and regeneration of cutaneous sensory nerve formations. Dubový P, et al. **Microsc Res Tech** 1996 Jul 1;34(4):362–75 (110 ref.)

METABOLISM

Mice with a targeted disruption of the neurotrophin receptor trkB lose their gustatory ganglion cells early but do develop taste buds. Fritzsch B, et al. **Int J Dev Neurosci** 1997 Jul; 15(4–5):563–76

Allergic inflammation in isolated vagal sensory ganglia unmasks silent NK–2 tachykinin receptors. Weinreich D, et al. **J Neurosci** 1997 Oct 15;17(20):7683–93

Immunohistochemistry of human cutaneous Meissner and pacinian corpuscles. Vega JA, et al. **Microsc Res Tech** 1996 Jul 1;34(4):351–61 (110 ref.)

Early expression of the nerve growth factor receptor ctrkA in chick sympathetic and sensory ganglia. Schröpel A, et al. **Mol Cell Neurosci** 1995 Dec;6(6):544–66

Localization of somatostatin–like immunoreactive neurons in the vestibular ganglion of the rabbit. Won MH, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):129–32

Expression of galanin and a galanin receptor in several sensory systems and bone anlage of rat embryos. Xu ZQ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14901–5

PATHOLOGY

Choroidal ganglion cell plexus and retinal vasculature in monkeys with laser–induced glaucoma. May CA, et al. **Ophthalmologica** 1997;211(3):161–71

PHYSIOLOGY

Cranial motor axons respond differently to the floor plate and sensory ganglia in collagen gel co–cultures. Tucker A, et al. **Eur J Neurosci** 1996 May;8(5):906–16

Activation of large conductance potassium channels inhibits the afferent and efferent function of airway sensory nerves in the guinea pig. Fox AJ, et al. **J Clin Invest** 1997 Feb 1;99(3):513–9

Interneurons of the ganglionic layer in the mormyrid electrosensory lateral line lobe: morphology, immunohistochemistry, and synaptology. Meek J, et al. **J Comp Neurol** 1996 Nov 4;375(1):43–65

Endogenous nerve growth factor is required for regulation of the low affinity neurotrophin receptor (p75) in sympathetic but not sensory ganglia. Zhou XF, et al. **J Comp Neurol** 1996 Aug 12;372(1):37–48

Presynaptic inhibition of sensory neurons during kicking movements in the locust. Hedwig B, et al. **J Neurophysiol** 1996 Mar;75(3):1221–32

Sensory expectations and anti–Hebbian synaptic plasticity in cerebellum–like structures. Grant K, et al. **J Physiol Paris** 1996;90(3–4):233–7

Modulation of ganglion cell activity in the pineal gland of the rainbow trout: effects of cholinergic, catecholaminergic, and GABAergic receptor agonists. Brandstätter R, et al. **J Pineal Res** 1996 Sep;21(2):59–72

Structural diversity of the ordinary and specialized lateral line organs. Cernuda–Cernuda R, et al. **Microsc Res Tech** 1996 Jul 1;34(4):302–12 (60 ref.)

Degeneration and regeneration of cutaneous sensory nerve formations. Dubový P, et al. **Microsc Res Tech** 1996 Jul 1;34(4):362–75 (110 ref.)

Cutaneous sensory nerve formations: an overview [comment] Vega JA. **Microsc Res Tech** 1996 Jul 1;34(4):281–2 (33 ref.) . Comment on: Microsc Res Tech 1996 Jul 1;34(4):283–301.

Voltage–activated sodium currents in acutely isolated mouse vestibular ganglion neurones. Chabbert C, et al. **Neuroreport** 1997 Mar 24;8(5):1253–6

Models of ganglion cell topography in the retina of macaque monkeys and their application to sensory cortical scaling. Azzopardi P, et al. **Neuroscience** 1996 Jun;72(3):617–25

Calcium currents in dissociated cochlear neurons from the chick embryo and their modification by neurotrophin–3. Jiménez C, et al. **Neuroscience** 1997 Apr;77(3):673–82

Expression and regulation of the neuropeptide Y Y2 receptor in sensory and autonomic ganglia. Zhang X, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):729–34

Agrin mRNA expression in the developing chick Edinger–Westphal nucleus. McAvoy M, et al. **Vis Neurosci** 1996 Mar–Apr;13(2):293–301

ULTRASTRUCTURE

Fine structure of the apical ganglion and its serotonergic cells in the larva of Aplysia californica. Marois R, et al. **Biol Bull** 1997 Jun;192(3):388–98

Organ cultures of embryonic rat tongue support tongue and gustatory papilla morphogenesis in vitro without intact sensory ganglia. Mbiene JP, et al. **J Comp Neurol** 1997 Jan 20;377(3):324–40

Sensory nerve formations in the skin and their classification [see comments] Malinovský L. **Microsc Res Tech** 1996 Jul 1;34(4):283–301 (135 ref.). Comment in: Microsc Res Tech 1996 Jul 1;34(4):281–2.

Morphometric and ultrastructural findings on human vestibular ganglion cells. Thurner KH, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Jul–Aug; 58(4):213–8

VIROLOGY

Detection of latent varicella–zoster virus infection in human vestibular and spiral ganglia. Furuta Y, et al. **J Med Virol** 1997 Mar;51(3):214–6

GANGLIA, SPINAL

Third cervical nerve root and ganglion compression: clinical syndrome, surgical anatomy, and pathological findings. Poletti CE. **Neurosurgery** 1996 Nov;39(5):941–8; discussion 948–9 (63 ref.)

[Dorsal root ganglia of the lumbosacral region and their clinical significances] Dai L. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):61–4 (20 ref.) **(Chi)**

ANATOMY & HISTOLOGY

Perikaryal projections of developing spinal ganglion neurons in the chick demonstrated by scanning electron microscopy. Matsuda S, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):137–46

Cyto– and myeloarchitectonic organisation of the spinal cord of an echidna (Tachyglossus aculeatus). Ashwell KW, et al. **Brain Behav Evol** 1997;49(5):276–94

The nucleus of the optic tract (NOT) and the dorsal terminal nucleus (DTN) of opossums (Didelphis marsupialis aurita). Vargas CD, et al. **Brain Behav Evol** 1996;48(1):1–15

Comparative morphology of the spinal ganglia in the different segments of the spinal cord in sheep. Hereć S, et al. **Folia Morphol (Warsz)** 1996;55(4):276–7

Evolution of morphological and histochemical changes in the adult cat cuneate nucleus following forelimb denervation. Avendaño C, et al. **J Comp Neurol** 1996 Jul 8;370(4):479–90

Quantitative analysis of anatomical changes in the cuneate nucleus following forelimb denervation: a stereological morphometric study in adult cats. Avendaño C, et al. **J Comp Neurol** 1996 Jul 8;370(4):491–500

Long–term age–related consequences of forelimb damage upon expression of primary afferent phenotypes in the cervical dorsal horn. Rhoades RW, et al. **Somatosens Mot Res** 1995;12(3–4):199–208

Sensory innervation to the anterior portion of lumbar intervertebral disc. Morinaga T, et al. **Spine** 1996 Aug 15; 21(16):1848–51

Positions of dorsal root ganglia in the cervical spine. An anatomic and clinical study. Yabuki S, et al. **Spine** 1996 Jul 1;21(13):1513–7

[Projections and fiber characteristics of sensory afferents of the anterior cruciate ligament in an animal experiment] Parsch D, et al. **Unfallchirurgie** 1996 Oct;22(5):193–201 (Eng. Abstr.) **(Ger)**

BLOOD SUPPLY

Neovascularization of the dorsal root ganglia transplanted into the olfactory bulb of neonatal rats. Sekerková G, et al. **Arch Ital Biol** 1996 Oct;134(4):291–304

CHEMISTRY

Epidermal growth factor receptor in adult human dorsal root ganglia. Huerta JJ, et al. **Anat Embryol (Berl)** 1996 Sep; 194(3):253–7

Neuropeptides and neurotrophin receptor mRNAs in primary sensory neurons of aged rats. Bergman E, et al. **J Comp Neurol** 1996 Nov 11;375(2):303–19

Electrophysiological properties of neurones with CGRP–like immunoreactivity in rat dorsal root ganglia. Lawson SN, et al. **J Comp Neurol** 1996 Feb 12;365(3):355–66

Spatial repositioning of centromeric domains during regrowth of axons in nuclei of murine dorsal root ganglion neurons in vitro. Choh V, et al. **J Neurobiol** 1996 Nov; 31(3):325–32

Differential distribution of thyroid hormone receptor isoform in rat dorsal root ganglia and sciatic nerve in vivo and in vitro. Glauser L, et al. **J Neuroendocrinol** 1997 Mar; 9(3):217–27

Identification of PN1, a predominant voltage–dependent sodium channel expressed principally in peripheral neurons. Toledo–Aral JJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1527–32

CYTOLOGY

Sub–population of capsaicin sensitive primary afferent neurons in thoracic, lumbar and sacral dorsal root ganglion in young rats revealed by stimulated cobalt uptake. Kulik A, et al. **Acta Biol Hung** 1996;47(1–4):251–9

A stereological study of dorsal root ganglion cells and nerve root fibers from rats treated with inorganic mercury. Schiønning JD, et al. **Acta Neuropathol (Berl)** 1997 Sep; 94(3):280–6

Ultrastructural localization of actin in the cell body of rat spinal ganglion neurons. Pannese E, et al. **Anat Embryol (Berl)** 1996 Dec;194(6):527–31

Metabolic properties of the sensory neurons in the rat dorsal root ganglion. Miyata H, et al. **Arch Ital Biol** 1997 Jun; 135(3):263–71

Changes in the isotype composition of beta–tubulin delivered to regenerating sensory axons by slow axonal transport. Hoffman PN, et al. **Brain Res** 1996 Dec 2;742(1–2):329–33

Proteins from chromaffin granules promote survival of dorsal root ganglionic neurons: comparison with neurotrophins. Krieglstein K, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1–2):10–7

Myelin–stimulated macrophages release neurotrophic factors for adult dorsal root ganglion neurons in culture. Hikawa N, et al. **Cell Mol Neurobiol** 1996 Aug;16(4):517–28

Rescue of sensory ganglia that are programmed to degenerate in normal development: evidence that NGF modulates proliferation of DRG cells in vivo. Geffen R, et al. **Dev Biol** 1996 Aug 25;178(1):51–62

Preferential growth of neonatal rat dorsal root ganglion cells on homotypic peripheral nerve substrates in vitro. Anand U, et al. **Eur J Neurosci** 1996 Apr;8(4):649–57

Capsaicin preferentially affects small–diameter acutely isolated rat dorsal root ganglion cell bodies. Del Mar LP, et al. **Exp Brain Res** 1996 Sep;111(1):30–4

Differential distribution of immunoreactivity in the adult rat spinal cord revealed by the monoclonal antibody, Py: a light and electron microscopic study. Brook GA, et al. **Exp Neurol** 1997 Jul;146(1):265–76

Coexistence of mu–opioid receptor–like and substance P–like immunoreactivities in the cat dorsal root ganglionic neurons. Lü Y, et al. **J Hirnforsch** 1997;38(2):243–6

Characterization of a neuronal delayed rectifier K current permeant to Cs and blocked by verapamil. Trequattrini C, et al. **J Membr Biol** 1996 Nov;154(2):143–53

The optical rotator. Tandrup T, et al. **J Microsc** 1997 May; 186 (Pt 2):108–20

Adenoviral vector–directed expression of neurotrophin–3 in rat dorsal root ganglion explants results in a robust neurite outgrowth response. Dijkhuizen PA, et al. **J Neurobiol** 1997 Aug;33(2):172–84

Age–related changes in the morphology of preganglionic neurons projecting to the rat hypogastric ganglion. Dering MA, et al. **J Neurocytol** 1996 Oct;25(10):555–63

Activation of Ca2+–dependent currents in dorsal root ganglion neurons by metabotropic glutamate receptors and cyclic ADP–ribose precursors. Crawford JH, et al. **J Neurophysiol** 1997 May;77(5):2573–84

The role of calcium in the desensitization of capsaicin responses in rat dorsal root ganglion neurons. Koplas PA, et al. **J Neurosci** 1997 May 15;17(10):3525–37

Nerve growth factor–stimulated mitogen–activated protein kinase activity is not necessary for neurite outgrowth of chick dorsal root ganglion sensory and sympathetic neurons. Klinz FJ, et al. **J Neurosci Res** 1996 Dec 15; 46(6):720–6

Attenuation and recovery of nerve growth factor receptor mRNA in dorsal root ganglion neurons following axotomy. Krekoski CA, et al. **J Neurosci Res** 1996 Jan 1;43(1):1–11

Modulation by adenosine of GABA–activated current in rat dorsal root ganglion neurons. Hu HZ, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):67–75

An in vitro model of the rat dorsal root entry zone reveals developmental changes in the extent of sensory axon growth into the spinal cord. Golding JP, et al. **Mol Cell Neurosci** 1996 Mar;7(3):191–203

Neurotrophin–3 and trkC–immunoreactive neurons in rat dorsal root ganglia correlate by distribution and morphology. Chen C, et al. **Neurochem Res** 1996 Jul; 21(7):809–14

Lack of neurotrophin–3 results in death of spinal sensory neurons and premature differentiation of their precursors. Fariñas I, et al. **Neuron** 1996 Dec;17(6):1065–78

Surround repulsion of spinal sensory axons in higher vertebrate embryos. Keynes R, et al. **Neuron** 1997 Jun; 18(6):889–97

ATP induces Ca2+ release from IP3–sensitive Ca2+ stores exclusively in large DRG neurones. Svichar N, et al. **Neuroreport** 1997 May 6;8(7):1555–9

Coexpression of heat–evoked and capsaicin–evoked inward currents in acutely dissociated rat dorsal root ganglion neurons. Kirschstein T, et al. **Neurosci Lett** 1997 Aug 1; 231(1):33–6

Acidic fibroblast growth factor enhances neurite outgrowth

and stimulates expression of GAP-43 and T alpha 1 alpha-tubulin in cultured neurones from adult rat dorsal root ganglia. Mohiuddin L, et al. **Neurosci Lett** 1996 Sep 6;215(2):111-4

Potentiation of GABA-induced Cl- current by a series of n-alcohols disappears at a cutoff point of a longer-chain n-alcohol in rat dorsal root ganglion neurons. Nakahiro M, et al. **Neurosci Lett** 1996 Feb 23;205(2):127-30

Increased neurite outgrowth of cultured rat dorsal root ganglion cells following transection or inhibition of axonal transport of the sciatic nerve. White DM, et al. **Neurosci Lett** 1996 Apr 19;208(2):93-6

N-methyl-D-aspartate depresses GABAA receptor-mediated currents in neurons of bullfrog dorsal root ganglia. Xi ZX, et al. **Neurosci Lett** 1996 Jul 5; 212(1):17-20

Developmental regulation of two distinct neuronal phenotypes in rat dorsal root ganglia. Goldstein ME, et al. **Neuroscience** 1996 Mar;71(1):243-58

Neurotransmitter release from growth cones of rat dorsal root ganglion neurons in culture. Soeda H, et al. **Neuroscience** 1997 Apr;77(4):1187-99

Prostaglandin E2 increases the proportion of neonatal rat dorsal root ganglion neurons that respond to bradykinin. Stucky CL, et al. **Neuroscience** 1996 Oct;74(4):1111-23

Responses of adult human dorsal root ganglion neurons in culture to capsaicin and low pH. Baumann TK, et al. **Pain** 1996 Apr;65(1):31-8

A stereological analysis of the numerical distribution of neurons in dorsal root ganglia C4-T2 in adult macaque monkeys. Avendaño C, et al. **Somatosens Mot Res** 1996; 13(1):59-66

CGRP-LI [letter; comment] McCarthy PW. **Spine** 1996 May 15;21(10):1277-8. Comment on: Spine 1995 Oct 1;20(19):2086-92.

DRUG EFFECTS

Lysosomal changes in rat spinal ganglia neurons after prolonged treatment with cisplatin. Stacchiotti A, et al. **Acta Anat (Basel)** 1995;153(3):236-42

Sub-population of capsaicin sensitive primary afferent neurons in thoracic, lumbar and sacral dorsal root ganglion in young rats revealed by stimulated cobalt uptake. Kulik A, et al. **Acta Biol Hung** 1996;47(1-4):251-9

A stereological study of dorsal root ganglion cells and nerve root fibers from rats treated with inorganic mercury. Schiønning JD, et al. **Acta Neuropathol (Berl)** 1997 Sep; 94(3):280-6

Bupivacaine preferentially blocks ventral root axons in rats. Dietz FB, et al. **Anesthesiology** 1997 Jan;86(1):172-80

The effects of anticonvulsants on 4-aminopyridine-induced bursting: in vitro studies on rat peripheral nerve and dorsal roots. Lees G. **Br J Pharmacol** 1996 Feb;117(3):573-579

Characterization of a P2X-purinoceptor in cultured neurones of the rat dorsal root ganglia. Robertson SJ, et al. **Br J Pharmacol** 1996 Jun;118(4):951-6

Inhibitory action of nociceptin on spinal dorsal horn neurones of the rat, in vivo. Stanfa LC, et al. **Br J Pharmacol** 1996 Aug;118(8):1875-7

Tachykinins cause inward current through NK1 receptors in bullfrog sensory neurons. Akasu T, et al. **Brain Res** 1996 Mar 25;713(1-2):160-7

Chronic morphine-treated sensory ganglion neurons remain supersensitive to the excitatory effects of naloxone for months after return to normal culture medium: an in vitro model of 'protracted opioid dependence'. Crain SM, et al. **Brain Res** 1995 Oct 2;694(1-2):103-10

Vanilloid receptor loss is independent of the messenger plasticity that follows systemic resiniferatoxin administration. Farkas-Szallasi T, et al. **Brain Res** 1996 May 6;719(1-2):213-8

The glycine site of the NMDA receptor contributes to neurokinin1 receptor agonist facilitation of NMDA receptor agonist-evoked activity in rat dorsal horn neurons. Heppenstall PA, et al. **Brain Res** 1997 Jan 9;744(2):235-45

Excitatory effects of algesic compounds on neuronal processes in murine dorsal root ganglion cell culture. Noda K, et al. **Brain Res** 1997 Mar 21;751(2):348-51

Calcium in suramin-induced rat sensory neuron toxicity in vitro. Sun X, et al. **Brain Res** 1996 Dec 2;742(1-2):149-56

Opioid peptides modulate GABA(A) receptor responses in neurons of bullfrog dorsal root ganglia. Xi ZX, et al. **Brain Res** 1997 May 30;758(1-2):163-8

Cholecystokinin octapeptide reverses the kappa-opioid-receptor-mediated depression of calcium current in rat dorsal root ganglion neurons. Xu T, et al. **Brain Res** 1996 Aug 19;730(1-2):207-11

Enhancement of neurite-sprouting by suppression of HPC-1/syntaxin 1A activity in cultured vertebrate nerve cells. Yamaguchi K, et al. **Brain Res** 1996 Nov 18; 740(1-2):185-92

Lead reduces depolarization-induced calcium entry in cultured DRG neurons without crossing the cell membrane: fura-2 measurements. Domann R, et al. **Cell Mol Neurobiol** 1997 Jun;17(3):305-14

Exogenous heat shock cognate protein Hsc 70 prevents axotomy-induced death of spinal sensory neurons. Houenou LJ, et al. **Cell Stress Chaperones** 1996 Sep; 1(3):161-6

Failure of nimodipine to prevent or correct the long-term nerve conduction defect and increased neuronal Ca(2+)-currents in the diabetic BB/W-rat. Ristic H, et al. **Diabetes Res Clin Pract** 1996 May;32(3):135-40

Tachykinin actions on deep dorsal horn neurons in vitro: an electrophysiological and morphological study in the immature rat. King AE, et al. **Eur J Neurosci** 1997 May; 9(5):1037-46

Developmentally regulated neurite outgrowth response from dorsal root ganglion neurons to heparin-binding growth-associated molecule (HB-GAM) and the expression of HB-GAM in the targets of the developing dorsal root ganglion neurites. Nolo R, et al. **Eur J Neurosci** 1996 Aug;8(8):1658-65

Ciliary neurotrophic factor constitutively expressed in the nervous system of transgenic mice protects embryonic dorsal root ganglion neurons from apoptosis. Tolosano E, et al. **Eur J Neurosci** 1996 Mar;8(3):521-9

Triiodothyronine exerts a trophic action on rat sensory neuron survival and neurite outgrowth through different pathways. Walter IB. **Eur J Neurosci** 1996 Mar;8(3):455-66

Neurospecificity of phyto-bufadienolides is not related to differences in Na+/K+ pump inhibition. Van der Walt JJ, et al. **Eur J Pharmacol** 1997 Jun 25;329(2-3):201-11

Effects of carbamazepine on membrane properties of rat sensory spinal ganglion cells in vitro. Schirrmacher K, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):501-7

2,5-Hexanedione induced apoptosis in cultured mouse DRG neurons. Ogawa Y, et al. **Int Arch Occup Environ Health** 1996;68(6):495-7

Block of N-type calcium channels in chick sensory neurons by external sodium. Polo-Parada L, et al. **J Gen Physiol** 1997 Jun;109(6):693-702

The effects of nerve growth factor on newborn rat dorsal root ganglion neurons in vitro: a scanning electron microscopic observation. Yang Y, et al. **J Hirnforsch** 1996; 37(3):313-7

Okadaic acid reversibly inhibits neurite outgrowth in embryonic dorsal root ganglion neurons. Giasson BI, et al. **J Neurobiol** 1997 Feb;32(2):193-201

Responses of rat spinal dorsal horn neurons to intracutaneous microinjection of histamine, capsaicin, and other irritants. Carstens E. **J Neurophysiol** 1997 May;77(5):2499-514

Lactoseries carbohydrate antigen, Gal beta 1-4GlcNAc-R, is expressed by a subpopulation of capsaicin-sensitive rat sensory neurons. Del Mar LP, et al. **J Neurophysiol** 1996 Oct;76(4):2192-9

Pharmacologically novel GABA receptor in human dorsal root ganglion neurons. Valeyev AY, et al. **J Neurophysiol** 1996 Nov;76(5):3555-8

ATP P2X receptors mediate fast synaptic transmission in the dorsal horn of the rat spinal cord. Bardoni R, et al. **J Neurosci** 1997 Jul 15;17(14):5297-304

A novel methodology for simultaneous assessment of the effects of 5-hydroxytryptamine on primary afferent polarisation and synaptic transmission in rat dorsal horn neurones in vitro. Lopez-Garcia JA, et al. **J Neurosci Methods** 1996 Sep;68(1):1-6

Anoxic injury in the rat spinal cord: pharmacological evidence for multiple steps in Ca(2+)-dependent injury of the dorsal columns. Imaizumi T, et al. **J Neurotrauma** 1997 May;14(5):299-311

Effect of cilnidipine, a novel dihydropyridine Ca++-channel antagonist, on N-type Ca++ channel in rat dorsal root ganglion neurons. Fujii S, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1184-91

Effects of the neuroprotective agent riluzole on the high voltage-activated calcium channels of rat dorsal root ganglion neurons. Huang CS, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1280-90

Methyl mercury reduces voltage-activated currents of rat dorsal root ganglion neurons. Leonhardt R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):532-8

IGF-I enhances neurite regeneration but is not required for its survival in adult DRG explant. Akahori Y, et al. **Neuroreport** 1997 Jul 7;8(9-10):2265-9

NGF has opposing effects on Na+ channel III and SNS gene expression in spinal sensory neurons. Black JA, et al. **Neuroreport** 1997 Jul 7;8(9-10):2331-5

The effects of Na+ channel blockers on somatosensory processing by rat dorsal horn neurones. Blackburn-Munro G, et al. **Neuroreport** 1997 May 6;8(7):1549-54

A novel K+ channel blocker isolated from 'hiccup nut' toxin. Guatteo E, et al. **Neuroreport** 1996 Nov 4;7(15-17):2575-9

An interaction of inflammatory mediators and protons in small diameter dorsal root ganglion neurons of the rat. Kress M, et al. **Neurosci Lett** 1997 Mar 7;224(1):37-40

Systemic anti-inflammatory effect induced by antidromic stimulation of the dorsal roots in the rat. Pintér E, et al. **Neurosci Lett** 1996 Jul 5;212(1):33-6

InsP3-induced Ca2+ release in dorsal root ganglion neurones. Svichar N, et al. **Neurosci Lett** 1997 May 16; 227(2):107-10

Vasoactive intestinal polypeptide and neuropeptide Y act indirectly to increase neurite outgrowth of dissociated dorsal root ganglion cells. White DM, et al. **Neuroscience** 1996 Aug;73(3):881-7

Differential regulation of substance P by all members of the nerve growth factor family of neurotrophins in avian dorsal root ganglia throughout development. Yao L, et al. **Neuroscience** 1997 Aug;79(4):1197-206

Voltage-activated calcium channel currents of rat DRG neurons are reduced by mercuric chloride (HgCl2) and methylmercury (CH3HgCl). Leonhardt R, et al. **Neurotoxicology** 1996 Spring;17(1):85-92

Responses of adult human dorsal root ganglion neurons in culture to capsaicin and low pH. Baumann TK, et al. **Pain** 1996 Apr;65(1):31-8

Capsaicin activated currents in rat dorsal root ganglion cells. Liu L, et al. **Pain** 1996 Jan;64(1):191-5

Tetrodotoxin inhibits neuropathic ectopic activity in neuromas, dorsal root ganglia and dorsal horn neurons. Omana-Zapata I, et al. **Pain** 1997 Aug;72(1-2):41-9

Abnormal spontaneous activity and responses to norepinephrine in dissociated dorsal root ganglion cells after chronic nerve constriction. Petersen M, et al. **Pain** 1996 Oct;67(2-3):391-7

Inhibition of calcineurin inhibits the desensitization of capsaicin-evoked currents in cultured dorsal root ganglion neurones from adult rats. Docherty RJ, et al. **Pflugers Arch** 1996 Apr;431(6):828-37

GABAB-mediated upregulation of the high-voltage-activated Ca2+ channels in rat dorsal root ganglia. Fujikawa S, et al. **Pflugers Arch** 1997 May; 434(1):84-90

Enhancement of ATP-activated current by protons in dorsal root ganglion neurons. Li C, et al. **Pflugers Arch** 1997 Feb; 433(4):446-54

Effect of cAMP and ATP on the hyperpolarization-activated current in mouse dorsal root ganglion neurons. Raes A, et al. **Pflugers Arch** 1997 Sep;434(5):543-50

Carboplatin-induced micronuclei formation in non-neuronal cells of rat foetal dorsal root ganglia cultured in vitro and comparison with another anticancer drug--cisplatin. Jirsová K, et al. **Sb Lek** 1996;97(3):331-42

Baclofen reduces GABAA receptor responses in acutely dissociated neurons of bullfrog dorsal root ganglia. Xi ZX, et al. **Synapse** 1997 Jun;26(2):165-74

Effects of 1, 9-dideoxy forskolin on delayed rectifier potassium current of bullfrog dorsal root ganglion cells. Tokimasa T. **Tokai J Exp Clin Med** 1995 Dec; 20(4-6):227-32

Mercury chloride modulation of the GABAA receptor-channel complex in rat dorsal root ganglion neurons. Huang CS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):508-20

Voltage-activated calcium channel currents of rat dorsal root ganglion cells are reduced by trimethyl lead. Gawrisch E, et al. **Toxicol Lett** 1997 Jul 21;92(2):117-22

EMBRYOLOGY

Perikaryal projections of developing spinal ganglion neurons in the chick demonstrated by scanning electron microscopy. Matsuda S, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):137-46

Dorsal root ganglion neuron development in chick and rat. Matsuda S, et al. **Anat Embryol (Berl)** 1996 May; 193(5):475-80

Preproinsulin I and II mRNAs and insulin electron microscopic immunoreaction are present within the rat fetal nervous system. Schechter R, et al. **Brain Res** 1996 Oct 14;736(1-2):16-27

1,25-Dihydroxyvitamin D(3) receptors in developing dorsal root ganglia of fetal rats. Johnson JA, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):120-4

Sclerotome development and peripheral nervous system segmentation in embryonic zebrafish. Morin-Kensicki EM, et al. **Development** 1997 Jan;124(1):159-67

Restriction of the fate of early migrating trunk neural crest in gangliogenesis of avian embryos. Asamoto K, et al. **Int J Dev Biol** 1995 Dec;39(6):975-84

Development of phrenic motoneuron morphology in the fetal rat. Allan DW, et al. **J Comp Neurol** 1997 Jun 16; 382(4):469-79

Growth, proliferation, and cell death in the ontogeny of transient DRG (Froriep's ganglia) of chick embryos. Rosen O, et al. **J Neurobiol** 1996 Jun;30(2):219-30

A paracrine effect for neuron-derived BDNF in development of dorsal root ganglia: stimulation of Schwann cell myelin protein expression by glial cells. Pruginin-Bluger M, et al. **Mech Dev** 1997 Jan;61(1-2):99-111

Coculture of rat embryonic proprioceptive sensory neurons and myotubes. Copray S, et al. **Muscle Nerve** 1996 Nov; 19(11):1401-12

ENZYMOLOGY

Comparison of succinate dehydrogenase activity and soma size relationships among neurons in dorsal root ganglia of rats and cats. Ishihara A, et al. **Brain Res** 1996 Apr 15; 716(1-2):183-6

Ca2+/calmodulin-dependent protein kinase type IV in dorsal root ganglion: colocalization with peptides, axonal transport and effect of axotomy. Ji RR, et al. **Brain Res** 1996 May 20;721(1-2):167-73

Skeletal muscle contraction modulates carbonic anhydrase phenotype in adult mouse dorsal root ganglion neurons. Mayeux V, et al. **Brain Res** 1995 Oct 2;694(1-2):191-9

Increased expression of neuronal nitric oxide synthase in bladder afferent and spinal neurons following spinal cord injury. Vizzard MA. **Dev Neurosci** 1997;19(3):232-46

Distribution and processing of peptidylglycine alpha-amidating monooxygenase activity in rat dorsal root ganglia and sciatic nerves. Takasugi H, et al. **Neurochem Int** 1996 Oct;29(4):397-403

Expression of a unique globo-series glycolipid in cultured

rat dorsal root ganglion neurons: relationship with neuronal development. Pal S, et al. **Neurochem Res** 1996 Apr; 21(4):403–9

Nerve growth factor inhibits the expression of nitric oxide synthase in neurones in dissociated cultures of rat dorsal root ganglia. Thippeswamy T, et al. **Neurosci Lett** 1997 Jul 11;230(1):9–12

Catechol–O–methyltransferase in rat sensory ganglia and spinal cord. Karhunen T, et al. **Neuroscience** 1996 Jul; 73(1):267–76

GROWTH & DEVELOPMENT

Effects of pulsed magnetic fields on neurite outgrowth from chick embryo dorsal root ganglia. Greenebaum B, et al. **Bioelectromagnetics** 1996;17(4):293–302

Motoneuron development after deafferentation: II. dorsal rhizotomy does not block estrogen–supported growth in the dorsolateral nucleus (DLN). Hays TC, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):20–8

Developmental regulation of two distinct neuronal phenotypes in rat dorsal root ganglia. Goldstein ME, et al. **Neuroscience** 1996 Mar;71(1):243–58

Early postnatal muscle contractile activity regulates the carbonic anhydrase phenotype of proprioceptive neurons in young and mature mice: evidence for a critical period in development. Mayeux V, et al. **Neuroscience** 1996 Apr; 71(3):787–95

INJURIES

BDNF prevents and reverses adult rat motor neuron degeneration and induces axonal outgrowth. Kishino A, et al. **Exp Neurol** 1997 Apr;144(2):273–86

An in vitro study of ectopic discharge generation and adrenergic sensitivity in the intact, nerve–injured rat dorsal root ganglion. Zhang JM, et al. **Pain** 1997 Aug;72(1–2):51–7

METABOLISM

Annexin VI modulates Ca2+ and K+ conductances of spinal cord and dorsal root ganglion neurons. Naciff JM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C2004–15

Distribution of immunoreactivity for cytoskeletal (microtubule, microtubule–associated, and neurofilament) proteins in adult human dorsal root ganglia. Naves FJ, et al. **Anat Rec** 1996 Feb;244(2):246–56

Metabolic properties of the sensory neurons in the rat dorsal root ganglion. Miyata H, et al. **Arch Ital Biol** 1997 Jun; 135(3):263–71

Expression of mRNA for brain–derived neurotrophic factor in the dorsal root ganglion following peripheral inflammation. Cho HJ, et al. **Brain Res** 1997 Feb 28; 749(2):358–62

Expression of mRNAs for preprotachykinin and nerve growth factor receptors in the dorsal root–ganglion following peripheral inflammation. Cho HJ, et al. **Brain Res** 1996 Apr 15;716(1–2):197–201

Increased brain–derived neurotrophic factor immunoreactivity in rat dorsal root ganglia and spinal cord following peripheral inflammation. Cho HJ, et al. **Brain Res** 1997 Aug 1;764(1–2):269–72

Pituitary adenylate cyclase activating polypeptide–immunoreactivity in human spinal cord and dorsal root ganglia. Dun EC, et al. **Brain Res** 1996 May 20;721(1–2):233–7

Ureteral ligation induces Fos expression in the dorsal horn. Fitch GK, et al. **Brain Res** 1996 Jun 3;723(1–2):199–205

S100 protein–immunoreactive primary sensory neurons in the trigeminal and dorsal root ganglia of the rat. Ichikawa H, et al. **Brain Res** 1997 Feb 14;748(1–2):253–7

Timing of c–jun protein induction in lumbar dorsal root ganglia after sciatic nerve transection varies with lesion distance. Kenney AM, et al. **Brain Res** 1997 Mar 14; 751(1):90–5

The effect of NGF, BDNF and bFGF on expression of galanin in cultured rat dorsal root ganglia. Kerekes N, et al. **Brain Res** 1997 Apr 18;754(1–2):131–41

Evidence for the presence of neurokinin–1 receptors on dorsal horn spinocerebellar tract cells in the rat. McGonigle DJ, et al. **Brain Res** 1996 Dec 2;742(1–2):1–9

Transganglionic response of GAP–43 in the gracile nucleus to sciatic nerve injury in young and aged rats. Ohara S, et al. **Brain Res** 1995 Dec 24;705(1–2):325–31

Effects of peripheral axotomy on neuropeptides and nitric oxide synthase in dorsal root ganglia and spinal cord of the guinea pig: an immunohistochemical study. Rydh–Rinder M, et al. **Brain Res** 1996 Jan 29;707(2):180–8

GAP–43 mRNA and calcitonin gene–related peptide mRNA expression in sensory neurons are increased following sympathectomy. Bolden DA, et al. **Brain Res Bull** 1997; 42(1):39–50

Triiodothyronine and nerve growth factor are required to induce cytoplasmic dynein expression in rat dorsal root ganglion cultures. Barakat–Walter I, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):109–19

1,25–Dihydroxyvitamin D(3) receptors in developing dorsal root ganglia of fetal rats. Johnson JA, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):120–4

Spinal sensory neurons express multiple sodium channel alpha–subunit mRNAs. Black JA, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):117–31

Sodium channel alpha–subunit mRNAs I, II, III, NaG, Na6 and hNE (PN1): different expression patterns in developing rat nervous system. Felts PA, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):71–82

mRNAS for one, two or three members of trk receptor family are expressed in single rat trigeminal ganglion neurons. Moshnyakov M, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):141–8

Islet amyloid polypeptide and calcitonin gene–related peptide expression are down–regulated in dorsal root ganglia upon sciatic nerve transection. Mulder H, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):322–30

Differential regulation of mRNAs for GDNF and its receptors Ret and GDNFR alpha after sciatic nerve lesion in the mouse. Naveilhan P, et al. **Eur J Neurosci** 1997 Jul; 9(7):1450–60

Effects of neuropeptide FF on intracellular Ca2+ in mouse spinal ganglion neurons. Roumy M, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):291–5

Gene delivery to the central and peripheral nervous systems of mice using HSV1 ICP34.5 deletion mutant vectors. Coffin RS, et al. **Gene Ther** 1996 Oct;3(10):886–91

Suppression of substance P biosynthesis in sensory neurons of dorsal root ganglion by prodrug esters of potent peptidylglycine alpha–amidating monooxygenase inhibitors. Jeng AY, et al. **J Biol Chem** 1997 Jun 6; 272(23):14666–71

A novel tetrodotoxin–sensitive, voltage–gated sodium channel expressed in rat and human dorsal root ganglia. Sangameswaran L, et al. **J Biol Chem** 1997 Jun 6; 272(23):14805–9

Nerve growth factor receptor TrkA is down–regulated during postnatal development by a subset of dorsal root ganglion neurons. Molliver DC, et al. **J Comp Neurol** 1997 May 19;381(4):428–38

Four repeat high–mol–wt MAP2 forms in rat dorsal root ganglia. Forleo P, et al. **J Mol Neurosci** 1996 Fall; 7(3):193–201

Expression, localization, and function of transforming growth factor–beta s in embryonic chick spinal cord, hindbrain, and dorsal root ganglia. Unsicker K, et al. **J Neurobiol** 1996 Feb;29(2):262–76

Suramin induces phosphorylation of the high–affinity nerve growth factor receptor in PC12 cells and dorsal root ganglion neurons. Gill JS, et al. **J Neurochem** 1996 Mar; 66(3):963–72

Differential regulation of fibroblast growth factor (FGF)–2 and FGF receptor 1 mRNAs and FGF–2 isoforms in spinal ganglia and sciatic nerve after peripheral nerve lesion. Meisinger C, et al. **J Neurochem** 1997 Mar;68(3):1150–8

Low–threshold, persistent sodium current in rat large dorsal root ganglion neurons in culture. Baker MD, et al. **J Neurophysiol** 1997 Mar;77(3):1503–13

Na(+)–Ca2+ exchange in rat dorsal root ganglion neurons. Verdru P, et al. **J Neurophysiol** 1997 Jan;77(1):484–90

Ca2+ permeability of the sustained proton–induced cation current in adult rat dorsal root ganglion neurons. Zeilhofer HU, et al. **J Neurophysiol** 1996 Nov;76(5):2834–40

Capsaicin activates a nonselective cation channel in cultured neonatal rat dorsal root ganglion neurons. Oh U, et al. **J Neurosci** 1996 Mar 1;16(5):1659–67

Brain–derived neurotrophic factor–like immunoreactivity is localized mainly in small sensory neurons of rat dorsal root ganglia. Barakat–Walter I. **J Neurosci Methods** 1996 Oct; 68(2):281–8

Activation of the gene encoding decay accelerating factor following nerve growth factor treatment of sensory neurons is mediated by promoter sequences within 206 bases of the transcriptional start site. Kendall G, et al. **J Neurosci Res** 1996 Jul 15;45(2):96–103

PGE2 modulates the tetrodotoxin–resistant sodium current in neonatal rat dorsal root ganglion neurones via the cyclic AMP–protein kinase A cascade. England S, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):429–40

Control of action potential propagation by intracellular Ca2+ in cultured rat dorsal root ganglion cells. Lüscher C, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):319–24

Single voltage–gated K+ channels and their functions in small dorsal root ganglion neurones of rat. Safronov BV, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):393–408

Expression of mRNA for a sodium channel in subfamily 2 in spinal sensory neurons. Waxman SG, et al. **Neurochem Res** 1996 Apr;21(4):395–401

Lack of neurotrophin–3 results in death of spinal sensory neurons and premature differentiation of their precursors. Fariñas I, et al. **Neuron** 1996 Dec;17(6):1065–78

Neurotrophins cause a new sensation. Snider WD, et al. **Neuron** 1996 Feb;16(2):229–32 (26 ref.)

Parvalbumin and calbindin D–28 k immunoreactivity in dorsal root ganglia in acquired immunodeficiency syndrome. Nagano I, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):293–301

Effects of the nootropic drug nefiracetam on the GABAA receptor–channel complex in dorsal root ganglion neurons. Huang CS, et al. **Neuropharmacology** 1996; 35(9–10):1251–61

Expression of B1 and B2 bradykinin receptor mRNA and their functional roles in sympathetic ganglia and sensory dorsal root ganglia neurones from wild–type and B2 receptor knockout mice. Seabrook GR, et al. **Neuropharmacology** 1997 Jul;36(7):1009–17

Nociceptin gene expression in rat dorsal root ganglia induced by peripheral inflammation. Andoh T, et al. **Neuroreport** 1997 Aug 18;8(12):2793–6

IFN–gamma induces expression of MHC class I molecules in adult mouse dorsal root ganglion neurones. Fujimaki H, et al. **Neuroreport** 1996 Nov 25;7(18):2951–5

GDNF mRNA in Schwann cells and DRG satellite cells after chronic sciatic nerve injury. Hammarberg H, et al. **Neuroreport** 1996 Mar 22;7(4):857–60

Expression of CD44H in the cells of neural crest origin in peripheral nervous system. Ikeda K, et al. **Neuroreport** 1996 Jul 29;7(11):1713–6

Relationship between BDNF– and trk–expressing neurones in rat dorsal root ganglion: an analysis by in situ hybridization. Kashiba H, et al. **Neuroreport** 1997 Mar 24; 8(5):1229–34

Neuropeptide FF reverses the effect of mu–opioid on Ca2+ channels in rat spinal ganglion neurones. Rebeyrolles S, et al. **Neuroreport** 1996 Nov 25;7(18):2979–81

Stimulation by nerve growth factor of neuropeptide synthesis in the adult rat in vivo: bilateral response to unilateral intraplantar injections. Amann R, et al. **Neurosci Lett** 1996 Jan 26;203(3):171–4

Effect of capsaicin on substance P and nerve growth factor in adjuvant arthritic rats. Garrett NE, et al. **Neurosci Lett** 1997 Jul 11;230(1):5–8

Preprovasopressin mRNA is not present in dorsal root ganglia of the rat. Hallbeck M, et al. **Neurosci Lett** 1996 May 10;209(2):125–8

Effects of peripheral nerve ligation on expression of mu–opioid receptor in sensory ganglion neurons: an immunohistochemical study in dorsal root and nodose ganglion neurons of the rat. Li JL, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):91–4

Coexistence of calcitonin gene–related peptide– and substance P–like immunoreactivity in retrogradely labeled superior spermatic neurons in the dog. Tamura R, et al. **Neurosci Res** 1996 Jul;25(3):293–9

Peripheral axotomy induces increased expression of neurotensin in large neurons in rat lumbar dorsal root ganglia. Zhang X, et al. **Neurosci Res** 1996 Aug; 25(4):359–69

Effects of nerve growth factor, brain–derived neurotrophic factor and neurotrophin–3 on the laminar distribution of transganglionically transported choleragenoid in the spinal cord dorsal horn following transection of the sciatic nerve in the adult rat. Eriksson NP, et al. **Neuroscience** 1997 Jun; 78(3):863–72

Expression of fibroblast growth factor–2 and fibroblast growth factor receptor 1 messenger RNAs in spinal ganglia and sciatic nerve: regulation after peripheral nerve lesion. Grothe C, et al. **Neuroscience** 1997 Jan;76(1):123–35

Evidence for colocalization of calcineurin and calcium channels in dorsal root ganglion neurons. Lukyanetz EA. **Neuroscience** 1997 Jun;78(3):625–8

Differential expression of galanin immunoreactivities in the primary sensory neurons following partial and complete sciatic nerve injuries. Ma W, et al. **Neuroscience** 1997 Aug; 79(4):1183–95

Developmental expression of alpha–, beta– and gamma–subspecies of protein kinase C in the dorsal corticospinal tract in the rat spinal cord. Miki A. **Neuroscience** 1996 Dec;75(3):939–48

Decreased skin sensory innervation in transgenic mice overexpressing insulin–like growth factor–II. Reynolds ML, et al. **Neuroscience** 1997 Aug;79(3):789–97

Bradykinin receptors in cultured rat dorsal root ganglion cells: influence of length of time in culture. Segond von Banchet G, et al. **Neuroscience** 1996 Dec;75(4):1211–8

Gradual caffeine–induced Ca2+ release in mouse dorsal root ganglion neurons is controlled by cytoplasmic and luminal Ca2+. Shmigol A, et al. **Neuroscience** 1996 Aug; 73(4):1061–7

Pituitary adenylate cyclase activating peptide expression in the rat dorsal root ganglia: up–regulation after peripheral nerve injury. Zhang YZ, et al. **Neuroscience** 1996 Oct; 74(4):1099–110

Alpha 2–adrenergic receptor subtypes in rat dorsal root and superior cervical ganglion neurons. Gold MS, et al. **Pain** 1997 Jan;69(1–2):179–90

Streptozotocin–induced diabetes is associated with altered expression of peptide–encoding mRNAs in rat sensory neurons. Rittenhouse PA, et al. **Peptides** 1996;17(6):1017–22

Single–channel analysis of two types of Na+ currents in rat dorsal root ganglia. Motomura H, et al. **Pflugers Arch** 1995 Dec;431(2):221–9

Increased substance P responses in dorsal root ganglia and intestinal macrophages during Clostridium difficile toxin A enteritis in rats. Castagliuolo I, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4788–93

Lambert–Eaton sera reduce low–voltage and high–voltage activated Ca2+ currents in murine dorsal root ganglion neurons. García KD, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9264–9

aFGF, bFGF and NGF differentially regulate neuropeptide expression in dorsal root ganglia after axotomy and induce autotomy. Ji RR, et al. **Regul Pept** 1996 Oct 22;66(3):179–89

Mercury chloride modulation of the GABAA receptor–channel complex in rat dorsal root ganglion neurons. Huang CS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):508–20

Neural cell adhesion molecules in activity–dependent development and synaptic plasticity. Fields RD, et al. **Trends Neurosci** 1996 Nov;19(11):473–80 (95 ref.)

GANGLIA, SPINAL

PATHOLOGY

Neuropathology and blood flow of nerve, spinal roots and dorsal root ganglia in longstanding diabetic rats. Sasaki H, et al. **Acta Neuropathol (Berl)** 1997 Feb;93(2):118–28

Nuclear and mitochondrial changes of co-cultivated spinal cord, spinal ganglia and muscle fibers following treatment with various doses of zidovudine. Schröder JM, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):138–49

Enkephalinergic and dynorphinergic neurons in the spinal cord and dorsal root ganglia of the polyarthritic rat – in vivo release and cDNA hybridization studies. Pohl M, et al. **Brain Res** 1997 Feb 21;749(1):18–28

Variations in the lumbosacral ligament and associated changes in the lumbosacral region resulting in compression of the fifth dorsal root ganglion and spinal nerve [letter; comment] Hardy PA. **Clin Anat** 1996;9(4):278–9. Comment on: Clin Anat 1995;8(5):339–46.

Cervical myelopathy caused by bilateral fibrosis of the dorsal root ganglion in a patient who had rheumatoid arthritis. A case report. Goldberg BA, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1069–72

Time course of degenerative and regenerative changes in the dorsal horn in a rat model of peripheral neuropathy. Cameron AA, et al. **J Comp Neurol** 1997 Mar 17; 379(3):428–42

Dystrophic axonal swellings develop as a function of age and diabetes in human dorsal root ganglia. Schmidt RE, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):1028–43

MRI of enlarged dorsal ganglia, lumbar nerve roots, and cranial nerves in polyradiculoneuropathies. Castillo M, et al. **Neuroradiology** 1996 Aug;38(6):516–20

Influence of inflammation or disconnection from peripheral target tissue on the capsaicin sensitivity of rat dorsal root ganglion sensory neurones. Hu-Tsai M, et al. **Neurosci Lett** 1996 Jan 19;203(2):119–22

Most classes of dorsal root ganglion neurons are severely depleted but not absent in mice lacking neurotrophin-3. Airaksinen MS, et al. **Neuroscience** 1996 Aug;73(4):907–11

Changes in the number of primary sensory neurons in normal and vitamin-E-deficient rats during aging. Cecchini T, et al. **Somatosens Mot Res** 1995;12(3–4):317–27

Most dorsal root ganglion neurons of the adult rat survive nerve crush injury. Swett JE, et al. **Somatosens Mot Res** 1995;12(3–4):177–89

[Tumoral collision: cancer metastases within a second neoplasm] Artazkoz del Toro JJ, et al. **An Otorrinolaringol Ibero Am** 1996;23(5):525–32 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Biophysical and functional consequences of receptor-mediated nerve fiber transformation. Tanelian DL, et al. **Biophys J** 1997 Mar;72(3):1092–108

Barium elicits reversal of low-concentration etorphine-induced decrease of potassium conductance in cultures of dissociated dorsal root ganglion neurons. Fan S, et al. **Brain Res** 1997 Apr 18;754(1–2):303–6

Postnatal expression of interleukin-6 (IL-6) and IL-6 receptor (IL-6R) mRNAs in rat sympathetic and sensory ganglia. Gadient RA, et al. **Brain Res** 1996 Jun 10; 724(1):41–6

Schwann cells can misdirect regrowing neuronal processes. Sims TJ, et al. **Brain Res** 1997 Jul 18;763(1):141–4

Cholecystokinin octapeptide reverses the kappa-opioid-receptor-mediated depression of calcium current in rat dorsal root ganglion neurons. Xu T, et al. **Brain Res** 1996 Aug 19;730(1–2):207–11

Enhancement of neurite-sprouting by suppression of HPC-1/syntaxin 1A activity in cultured vertebrate nerve cells. Yamaguchi K, et al. **Brain Res** 1996 Nov 18; 740(1–2):185–92

Expression of pituitary adenylate cyclase-activating polypeptide in dorsal root ganglia following axotomy: time course and coexistence [published erratum appears in Brain Res 1997 Jan 16;745(1–2):357] Zhang Q, et al. **Brain Res** 1995 Dec 24;705(1–2):149–58

Effects of noxious hindpaw immersion on evoked and spontaneous firing of contralateral convergent dorsal horn neurons in both intact and spinalized rats. McGaraughty S, et al. **Brain Res Bull** 1997;43(3):263–7

In vivo and in vitro expression of rat galactose-1-phosphate uridyltransferase (GALT) in the developing central and peripheral nervous system. Daude N, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):190–6

Motoneuron development after deafferentation. I. dorsal rhizotomy does not alter growth in the spinal nucleus of the bulbocavernosus (SNB). Goldstein LA, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):11–9

Differential effects of axotomy on the in vivo synthesis of the stress-inducible and constitutive 70-kDa heat-shock proteins in rat dorsal root ganglia. Tedeschi B, et al. **Brain Res Mol Brain Res** 1997 May;45(2):199–206

Modulatory effects of gonadorelin on GABA-induced depolarization and GABA-activated current in rat spinal ganglion neurons. Zhou XP, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):31–4

Effects of producing a radiofrequency lesion adjacent to the dorsal root ganglion in patients with thoracic segmental pain [see comments] van Kleef M, et al. **Clin J Pain** 1995 Dec;11(4):325–32. Comment in: Clin J Pain 1996 Mar;12(1):76–7; discussion 77–8.

Role of acetylated gangliosides on neurite extension. Mendez-Otero R, et al. **Eur J Cell Biol** 1996 Oct; 71(2):192–8

Interaction between neurons in different laminae of the dorsal horn of the spinal cord. A correlation study in normal and neuropathic rats. Biella G, et al. **Eur J Neurosci** 1997 May; 9(5):1017–25

Importance of the different beta subunits in the membrane expression of the alpha1A and alpha2 calcium channel subunits: studies using a depolarization-sensitive alpha1A antibody. Brice NL, et al. **Eur J Neurosci** 1997 Apr; 9(4):749–59

Mechanisms of paresthesiae, dysesthesiae, and hyperesthesiae: role of Na+ channel heterogeneity. Rizzo MA, et al. **Eur Neurol** 1996;36(1):3–12 (44 ref.)

Estrogen regulates neurofilament gene expression in adult female rat dorsal root ganglion neurons. Scoville SA, et al. **Exp Neurol** 1997 Aug;146(2):596–9

Effects of extracellular matrix components on axonal outgrowth from peripheral nerves of adult animals in vitro. Tonge DA, et al. **Exp Neurol** 1997 Jul;146(1):81–90

Observations on proliferating sheath cells in the regenerating nerves of lizard. Alibardi L. **Histol Histopathol** 1996 Oct; 11(4):937–42

The interaction of human fetal neurons and epidermal cells in vitro. Penfold ME, et al. **In Vitro Cell Dev Biol Anim** 1996 Jul–Aug;32(7):420–6

Intrinsic versus extrinsic factors in determining the regeneration of the central processes of rat dorsal root ganglion neurons: the influence of a peripheral nerve graft. Chong MS, et al. **J Comp Neurol** 1996 Jun 17;370(1):97–104

Intact sciatic myelinated primary afferent terminals collaterally sprout in the adult rat dorsal horn following section of a neighbouring peripheral nerve. Doubell TP, et al. **J Comp Neurol** 1997 Mar 31;380(1):95–104

Effects of fibinolysis on neurite growth from dorsal root ganglia cultured in two- and three-dimensional fibrin gels. Herbert CB, et al. **J Comp Neurol** 1996 Feb 12; 365(3):380–91

Neurogenesis of subpopulations of rat lumbar dorsal root ganglion neurons including neurons projecting to the dorsal column nuclei. Kitao Y, et al. **J Comp Neurol** 1996 Jul 22;371(2):249–57

Oligodendroglial signal transduction systems are regulated by neuronal contact. He M, et al. **J Neurochem** 1996 Oct; 67(4):1491–9

Acetylcholinesterase inhibitor treatment delays recovery from axotomy in cultured dorsal root ganglion neurons. Dupree JL, et al. **J Neurocytol** 1996 Aug;25(8):439–54

Sensory neurons regulate immunoglobulin secretion of spleen cells: cellular analysis of bidirectional communications between neurons and immune cells. Hikawa N, et al. **J Neuroimmunol** 1996 Nov;70(2):191–8

Two parallel signaling pathways couple 5HT1A receptors to N- and L-type calcium channels in C-like rat dorsal root ganglion cells. Cardenas CG, et al. **J Neurophysiol** 1997 Jun;77(6):3284–96

Sympathetically correlated activity of dorsal horn neurons in spinally transected rats. Chau D, et al. **J Neurophysiol** 1997 Jun;77(6):2966–74

Reliability of spike propagation in arborizations of dorsal root fibers studied by analysis of postsynaptic potentials mediated by electrotonic coupling in the frog spinal cord. Dityatev AE, et al. **J Neurophysiol** 1996 Nov;76(5):3451–9

Quantitative analysis of orofacial thermoreceptive neurons in the superficial medullary dorsal horn of the rat. Hutchison WD, et al. **J Neurophysiol** 1997 Jun; 77(6):3252–66

Spinal dorsal horn neurons responding to noxious distension of the ureter in anesthetized rats. Laird JM, et al. **J Neurophysiol** 1996 Nov;76(5):3239–48

Modulation of calcium currents by electrical activity. Li M, et al. **J Neurophysiol** 1996 Oct;76(4):2595–607

GABAA-receptor-mediated conductance and action potential waveform in cutaneous and muscle afferent neurons of the adult rat: differential expression and response to nerve injury. Oyelese AA, et al. **J Neurophysiol** 1996 Oct;76(4):2383–92

Electrophysiological analysis of dorsal root ganglion neurons pre- and post-coexpression of green fluorescent protein and functional 5-HT3 receptor. Smith GM, et al. **J Neurophysiol** 1997 Jun;77(6):3115–21

Progression of M-current inhibition after agonist removal. Villarroel A. **J Neurophysiol** 1996 Jan;75(1):518–21

Electrophysiological properties of neurons in intact rat dorsal root ganglia classified by conduction velocity and action potential duration. Villière V, et al. **J Neurophysiol** 1996 Sep;76(3):1924–41

Inhibitory effects evoked from the anterior hypothalamus are selective for the nociceptive responses of dorsal horn neurons with high- and low-threshold inputs. Workman BJ, et al. **J Neurophysiol** 1997 May;77(5):2831–5

Dynamic microtubule ends are required for growth cone turning to avoid an inhibitory guidance cue. Challacombe JF, et al. **J Neurosci** 1997 May 1;17(9):3085–95

The trkA receptor mediates growth cone turning toward a localized source of nerve growth factor. Gallo G, et al. **J Neurosci** 1997 Jul 15;17(14):5445–54

The generation of neuronal heterogeneity in a rat sensory ganglion. Hall AK, et al. **J Neurosci** 1997 Apr 15; 17(8):2775–84

Establishment of Schwann cell lines from normal adult and embryonic rat dorsal root ganglia. Li RH, et al. **J Neurosci Methods** 1996 Jul;67(1):57–69

Reducing p75 nerve growth factor receptor levels using antisense oligonucleotides prevents the loss of axotomized sensory neurons in the dorsal root ganglia of newborn rats. Cheema SS, et al. **J Neurosci Res** 1996 Oct 15;46(2):239–45

Posterior rhizotomy [letter] Rose RD. **J Neurosurg** 1997 Aug; 87(2):334–5

Voltage-dependent calcium channels as targets for convulsant and anticonvulsant alkyl-substituted thiobutyrolactones. Gross RA, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):686–94

Spike-evoked suppression and burst patterning in dorsal root ganglion neurons of the rat. Amir R, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):183–96

Voltage-dependent binding and calcium channel current inhibition by an anti-alpha 1D subunit antibody in rat dorsal root ganglion neurones and guinea-pig myocytes. Wyatt CN, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):307–19

Different types of Na+ and A-type K+ currents in dorsal root ganglion neurones innervating the rat urinary bladder. Yoshimura N, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):1–16

Fractional Ca2+ currents through capsaicin- and proton-activated ion channels in rat dorsal root ganglion neurones. Zeilhofer HU, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):67–78

A Distal-less-like gene is induced in the regenerating central nervous system of the urodele Pleurodeles waltl. Nicolas S, et al. **Mech Dev** 1996 May;56(1–2):209–20

Chemoattraction of sensory neuron growth cones by diffusible concentration gradients of acetylcholine. Kuffler DP. **Mol Chem Neuropathol** 1996 May–Aug; 28(1–3):199–208

Selective loss of slow and enhancement of fast Na+ currents in cutaneous afferent dorsal root ganglion neurones following axotomy. Rizzo MA, et al. **Neurobiol Dis** 1995 Apr;2(2):87–96

Trigeminal afferents and brainstem centers involved in the occurrence of cerebral vasospasm. Svendgaard NA, et al. **Neurol Res** 1996 Oct;18(5):394–400

Ca(2+)-dependent exocytosis in the somata of dorsal root ganglion neurons. Huang LY, et al. **Neuron** 1996 Jul; 17(1):135–45

Analysis of low affinity neurotrophin receptor (p75) expression in glia of the CNS-PNS transition zone following dorsal root transection. Gai WP, et al. **Neuropathol Appl Neurobiol** 1996 Oct;22(5):434–9

Intercellular communication between dorsal root ganglion cells and colonic smooth muscle cells in vitro. Ennes HS, et al. **Neuroreport** 1997 Feb 10;8(3):733–7

IL-1 beta enhances neurite regeneration from transected-nerve terminals of adult rat DRG. Horie H, et al. **Neuroreport** 1997 May 27;8(8):1955–9

Sprouting of sympathetic nerve fibers into the dorsal root ganglion following peripheral nerve injury depends on the injury site. Kim HJ, et al. **Neurosci Lett** 1996 Jul 19; 212(3):191–4

An interaction of inflammatory mediators and protons in small diameter dorsal root ganglion neurons of the rat. Kress M, et al. **Neurosci Lett** 1997 Mar 7;224(1):37–40

Tetraethylammonium-sensitive calcium-sensitive potassium current in a subclass of the bullfrog dorsal root ganglion cells. Morita K, et al. **Neurosci Lett** 1996 Sep 13; 215(3):193–6

Systemic anti-inflammatory effect induced by antidromic stimulation of the dorsal roots in the rat. Pintér E, et al. **Neurosci Lett** 1996 Jul 5;212(1):33–6

Phenytoin and carbamazepine: differential inhibition of sodium currents in small cells from adult rat dorsal root ganglia. Rush AM, et al. **Neurosci Lett** 1997 Apr 25; 226(2):95–8

CGP 35348 and CGP 55845A block the baclofen-induced depression of dorsal root evoked potentials in lumbar motoneurons of the neonatal rat. Vinay L, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):103–6

Increased nasal mucosal blood flow, airway resistance and secretion induced by electrical stimulation of the superior salivatory nucleus in cats. Yoshida K, et al. **Neurosci Res** 1996 Aug;25(4):371–7

Metabotropic glutamate receptor antagonists, like GABA(B) antagonists, potentiate dorsal root-evoked excitatory synaptic transmission at neonatal rat spinal motoneurons in vitro. Cao CQ, et al. **Neuroscience** 1997 May; 78(1):243–50

Axonal outgrowth and neuronal apoptosis in cultured adult mouse dorsal root ganglion preparations: effects of neurotrophins, of inhibition of neurotrophin actions and of prior axotomy. Edström A, et al. **Neuroscience** 1996 Dec; 75(4):1165–74

Co-expression of nociceptor properties in dorsal root ganglion neurons from the adult rat in vitro. Gold MS, et al. **Neuroscience** 1996 Mar;71(1):265–75

Toxin-resistant calcium currents in embryonic mouse sensory neurons. Hilaire C, et al. **Neuroscience** 1997 Sep; 80(1):267–76

Opposite developmental regulation of P- and Q-type calcium currents during ontogenesis of large diameter mouse sensory neurons. Hilaire C, et al. **Neuroscience** 1996 Dec; 75(4):1219–29

Expression of a developmentally regulated, phosphorylated isoform of microtubule-associated protein 1B in sprouting

and regenerating axons in vitro. Tonge DA, et al. **Neuroscience** 1996 Jul;73(2):541–51

Role of nitric oxide in cutaneous blood flow increases in the rat hindpaw during dorsal column stimulation. Croom JE, et al. **Neurosurgery** 1997 Mar;40(3):565–70; discussion 571

Capsaicin activated currents in rat dorsal root ganglion cells. Liu L, et al. **Pain** 1996 Jan;64(1):191–5

Spontaneous action potential activity in isolated dorsal root ganglion neurons from rats with a painful neuropathy. Study RE, et al. **Pain** 1996 May–Jun;65(2–3):235–42

Inhibition of calcineurin inhibits the desensitization of capsaicin–evoked currents in cultured dorsal root ganglion neurones from adult rats. Docherty RJ, et al. **Pflugers Arch** 1996 Apr;431(6):828–37

Effect of cAMP and ATP on the hyperpolarization–activated current in mouse dorsal root ganglion neurons. Raes A, et al. **Pflugers Arch** 1997 Sep;434(5):543–50

A novel heat–activated current in nociceptive neurons and its sensitization by bradykinin [see comments] Cesare P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15435–9 . Comment in: Proc Natl Acad Sci U S A 1996 Dec 24;93(26):14995–7.

More sensory competence for nociceptive neurons in culture [comment] Kress M, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):14995–7 (35 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15435–9.

P2Y1 purinergic receptors in sensory neurons: contribution to touch–induced impulse generation. Nakamura F, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10465–70

Microtubule reorganization is obligatory for growth cone turning. Williamson T, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15221–6

Alterations in the functional properties of dorsal root ganglion cells with unmyelinated axons after a chronic nerve constriction in the rat. LaMotte RH, et al. **Prog Brain Res** 1996;110:105–11 (32 ref.)

Peptides and cutaneous polymodal nociceptor neurones. Lawson SN. **Prog Brain Res** 1996;113:369–85 (75 ref.)

Cutaneous polymodal receptors: characteristics and plasticity. Perl ER. **Prog Brain Res** 1996;113:21–37 (49 ref.)

Sensory afferent processing in multi–responsive DRG neurons. Senba E, et al. **Prog Brain Res** 1996;113:387–410 (160 ref.)

The immediate effects of peripheral deafferentation on neurons of the cuneate nucleus in raccoons. Northgrave SA, et al. **Somatosens Mot Res** 1996;13(2):103–13

Innervation of the lumbar facet joints. Origins and functions. Suseki K, et al. **Spine** 1997 Mar 1;22(5):477–85

PHYSIOPATHOLOGY

Sprouting sympathetic fibers form synaptic varicosities in the dorsal root ganglion of the rat with neuropathic injury. Chung K, et al. **Brain Res** 1997 Mar 21;751(2):275–80

Polysensory response characteristics of dorsal root ganglion neurones that may serve sensory functions during myocardial ischaemia. Huang MH, et al. **Cardiovasc Res** 1996 Sep;32(3):503–15

Dorsal root gangliopathia presenting with rapidly progressing sensory polyneuropathy. Reske–Nielsen E, et al. **Clin Neuropathol** 1996 Jan–Feb;15(1):7–12

Sympathetic sprouting in the dorsal root ganglia of the injured peripheral nerve in a rat neuropathic pain model. Chung K, et al. **J Comp Neurol** 1996 Dec 9;376(2):241–52

Delayed neurite regeneration and its improvement by nerve growth factor (NGF) in dorsal root ganglia from MRL–lpr/lpr mice in vitro. Hikawa N, et al. **J Neurol Sci** 1997 Jul;149(1):13–7

The whiplash (hyperextension–flexion) syndrome: a disorder of dorsal root ganglion neurons? [editorial] Waxman SG, et al. **J Neurotrauma** 1996 Dec;13(12):735–9 (60 ref.)

Reduced sympathetic sprouting occurs in dorsal root ganglia after axotomy in mice lacking low–affinity neurotrophin receptor. Ramer M, et al. **Neurosci Lett** 1997 May 30; 228(1):9–12

Release of gamma–aminobutyric acid in the dorsal horn and suppression of tactile allodynia by spinal cord stimulation in mononeuropathic rats. Stiller CO, et al. **Neurosurgery** 1996 Aug;39(2):367–74; discussion 374–5

Rapid sprouting of sympathetic axons in dorsal root ganglia of rats with a chronic constriction injury. Ramer MS, et al. **Pain** 1997 Apr;70(2–3):237–44

Wallerian degeneration is required for both neuropathic pain and sympathetic sprouting into the DRG. Ramer MS, et al. **Pain** 1997 Aug;72(1–2):71–8

The electromyographic responses to dorsal rootlet stimulation during partial dorsal rhizotomy are inconsistent. Warf BC, et al. **Pediatr Neurosurg** 1996 Jul;25(1):13–9

The effects of mechanical compression and hypoxia on nerve root and dorsal root ganglia. An analysis of ectopic firing using an in vitro model. Sugawara O, et al. **Spine** 1996 Sep 15;21(18):2089–94

[Painful shoulder syndrome with drooping after cervical lymphatic dissection] Campos A, et al. **Acta Otorrinolaringol Esp** 1996 Sep–Oct;47(5):387–92 (Eng. Abstr.) **(Spa)**

SURGERY

Results of DREZ coagulations for pain related to plexus lesions, spinal cord injuries and postherpetic neuralgia. Rath SA, et al. **Acta Neurochir (Wien)** 1996;138(4):364–9

Dorsal root ganglionectomy for intractable monoradicular sciatica. A series of 61 patients. Taub A, et al. **Stereotact Funct Neurosurg** 1995;65(1–4):106–10

[Painful shoulder syndrome with drooping after cervical lymphatic dissection] Campos A, et al. **Acta Otorrinolaringol Esp** 1996 Sep–Oct;47(5):387–92 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Neovascularization of the dorsal root ganglia transplanted into the olfactory bulb of neonatal rats. Sekerková G, et al. **Arch Ital Biol** 1996 Oct;134(4):291–304

Muscle sensory innervation patterns in embryonic chick hindlimbs following dorsal root ganglion reversal. Wang G, et al. **Dev Biol** 1997 Jun 1;186(1):27–35

Functional interactions between spinal cord grafts suggest asymmetries dictated by graft maturity. Trok K, et al. **Exp Neurol** 1997 May;145(1):268–77

ULTRASTRUCTURE

Effects of pulsed magnetic fields on neurite outgrowth from chick embryo dorsal root ganglia. Greenebaum B, et al. **Bioelectromagnetics** 1996;17(4):293–302

Possible branching of myelinated primary afferent fibres in the dorsal root of the rat. Nagy I, et al. **Brain Res** 1995 Dec 12;703(1–2):223–6

A fine structural study of the hippocampus and dorsal root ganglion in mouse trisomy 16, a model of Down's syndrome. Lane NJ, et al. **Cell Biol Int** 1996 Oct; 20(10):673–80

Number, distribution and neuropeptide content of rat knee joint afferents. Salo PT, et al. **J Anat** 1997 May;190 (Pt 4):515–22

The effects of nerve growth factor on newborn rat dorsal root ganglion neurons in vitro: a scanning electron microscopic observation. Yang Y, et al. **J Hirnforsch** 1996; 37(3):313–7

VIROLOGY

Human immunodeficiency virus infection of dorsal root ganglion neurons detected by polymerase chain reaction in situ hybridization. Brannagan TH 3rd, et al. **Ann Neurol** 1997 Sep;42(3):368–72

Distribution of herpes simplex virus types 1 and 2 genomes in human spinal ganglia studied by PCR and in situ hybridization. Obara Y, et al. **J Med Virol** 1997 Jun; 52(2):136–42

Rabies virus infection of cultured adult mouse dorsal root ganglion neurons. Castellanos J, et al. **Mem Inst Oswaldo Cruz** 1996 Sep–Oct;91(5):621–5

Apoptosis induced in the spinal cord and dorsal root ganglion by infection of herpes simplex virus type 2 in the mouse. Ozaki N, et al. **Neurosci Lett** 1997 Jun 6;228(2):99–102

GANGLIA, SYMPATHETIC

see related

GANGLIONECTOMY

An alternative needle geometry for interruption of the ganglion impar [letter] Nebab EG, et al. **Anesthesiology** 1997 May;86(5):1213–4

Malignant schwannoma of the sympathetic chain, combined with plexiform neurofibromas of the tongue and larynx in a patient with von Recklinghausen's disease [letter] Handžić–Cuk J, et al. **Eur Arch Otorhinolaryngol** 1997; 254(1):20–1

[Helical CT guided lumar sympathetic ganglion block] Oi Y, et al. **Masui** 1996 Jul;45(7):888–91 (Eng. Abstr.) **(Jpn)**

ANATOMY & HISTOLOGY

Development of differential preganglionic projections to pre– and paravertebral sympathetic ganglia. Cornbrooks EB, et al. **J Comp Neurol** 1997 May 26;382(1):1–18

Distributions of the cardiac plexuses and ganglia in the Beijing duck. Chen Y, et al. **J Vet Med Sci** 1997 May; 59(5):409–11

Interaction between parasympathetic and sympathetic nerves in prevertebral ganglia: morphological evidence for vagal efferent innervation of ganglion cells in the rat. Berthoud HR, et al. **Microsc Res Tech** 1996 Sep 1;35(1):80–6

BLOOD SUPPLY

Differential permeability of blood microvasculatures in various sympathetic ganglia of rodents. Chau YP, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):259–69

Blood flow and autoregulation in somatic and autonomic ganglia. Comparison with sciatic nerve. McManis PG, et al. **Brain** 1997 Mar;120 (Pt 3):445–9

Microvascular organization of sympathetic ganglia, with special reference to small intensely–fluorescent cells. Tanaka K, et al. **Microsc Res Tech** 1996 Oct 1;35(2):137–45 (68 ref.)

CHEMISTRY

Calretinin immunoreactivity in human sympathetic ganglia. Huerta JJ, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):373–8

Monoamine fluorescence and electron microscopic studies on small intensely fluorescent (granule–containing) cells in human sympathetic ganglia. Chiba T. **J Comp Neurol** 1978 May 1;179(1):153–67

Chicken GnRH II–like peptides and a GnRH receptor selective for chicken GnRH II in amphibian sympathetic ganglia. Troskie B, et al. **Neuroendocrinology** 1997 Jun; 65(6):396–402

CYTOLOGY

Distribution of p75 and trk–neurotrophin receptor proteins in adult human sympathetic ganglia. Garcia–Suarez O, et al. **Anat Embryol (Berl)** 1996 Jun;193(6):577–83

A preliminary investigation of the effects of aging on the nerve cell number in the myenteric ganglia of the human colon. Gomes OA, et al. **Gerontology** 1997;43(4):210–7

Cytochrome b558 and hydrogen peroxide production in small intensely fluorescent cells of sympathetic ganglia. Kummer W, et al. **Histochem Cell Biol** 1997 Feb;107(2):151–8

Immunohistochemically–defined subtypes of neurons in the inferior mesenteric ganglion of the guinea–pig. Parr EJ, et al. **J Auton Nerv Syst** 1996 Jul 5;59(3):140–50

Induction of Bip mRNA upon programmed cell death of differentiated PC12 cells as well as rat sympathetic neurons. Aoki T, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):122–7

Nerve growth factor–stimulated mitogen–activated protein kinase activity is not necessary for neurite outgrowth of chick dorsal root ganglion sensory and sympathetic neurons. Klinz FJ, et al. **J Neurosci Res** 1996 Dec 15; 46(6):720–6

Delayed rectifier current of bullfrog sympathetic neurons: ion–ion competition, asymmetrical block and effects of ions on gating. Block BM, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):403–16

The cardiac ganglia: cellular and molecular aspects. Baptista CA, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jan;13(1):42–54 (64 ref.)

The development of the noradrenergic transmitter phenotype in postganglionic sympathetic neurons. Ernsberger U, et al. **Neurochem Res** 1996 Jul;21(7):823–9 (60 ref.)

Direct projections from the spinal cord to the trigeminal sympathetic ganglion of the puffer fish, Takifugu niphobles. Funakoshi K, et al. **Neurosci Lett** 1996 Aug 2;213(2):115–8

The sites of origin and termination of afferent and efferent components in the lingual and pharyngeal branches of the glossopharyngeal nerve in the Japanese monkey (Macaca fuscata). Satoda T, et al. **Neurosci Res** 1996 Mar; 24(4):385–92

DRUG EFFECTS

Differential block of nicotinic synapses on B versus C neurones in sympathetic ganglia of frog by alpha–conotoxins MII and ImI. Tavazoie SF, et al. **Br J Pharmacol** 1997 Mar;120(6):995–1000

Excitatory action of pituitary adenylate cyclase activating polypeptide on rat sympathetic preganglionic neurons in vivo and in vitro. Lai CC, et al. **Brain Res** 1997 Feb 14; 748(1–2):189–94

Long–term depression of a sympathetic ganglionic response to opioids by prolonged synaptic activity and by phorbol esters. Zhang C, et al. **Brain Res** 1996 Feb 26;710(1–2):1–10

In vivo NGF treatment increases proliferation in the primary sympathetic ganglia of chick embryos. Goldstein RS, et al. **Dev Biol** 1997 Jan 1;181(1):116–20

Effects of a cognition–enhancer, linopirdine (DuP 996), on M–type potassium currents (IK(M)) and some other voltage– and ligand–gated membrane currents in rat sympathetic neurons. Lamas JA, et al. **Eur J Neurosci** 1997 Mar;9(3):605–16

Effects of intranasal cocaine on sympathetic nerve discharge in humans. Jacobsen TN, et al. **J Clin Invest** 1997 Feb 15;99(4):628–34

Nerve growth factor stimulates the accumulation of beta1 integrin at the tips of filopodia in the growth cones of sympathetic neurons. Grabham PW, et al. **J Neurosci** 1997 Jul 15;17(14):5455–65

Presynaptic muscarinic inhibition in bullfrog sympathetic ganglia. Shen WX, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):413–21

Neuropeptide Y and calcitonin gene–related peptide modulate voltage–gated Ca2+ channels in mature female rat paracervical ganglion neurons. Cohen DP, et al. **J Soc Gynecol Investig** 1996 Nov–Dec;3(6):342–9

Intracellular mechanism of ATP–induced depolarizing response in the bullfrog sympathetic ganglion cells. Somei K, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep; 18(7):443–8

The effects of catechol on various membrane conductances in lumbar sympathetic postganglionic neurones of the guinea–pig. Inokuchi H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):609–18

Regulation of M–type potassium channels in mammalian sympathetic neurons: action of intracellular calcium on single channel currents. Selyanko AA, et al. **Neuropharmacology** 1996;35(7):933–47

Chronic activation of protein kinase C by phorbol ester reduces calcium channel expression in chick sympathetic neurons. Przywara DA, et al. **Neurosci Lett** 1997 Jun 27; 229(2):138–40

Hyperpolarizing shift of the M–current activation curve after washout of muscarine in bullfrog sympathetic neurons. Tokimasa T, et al. **Neurosci Lett** 1996 Mar 29;207(2):97–100

Pituitary adenylate cyclase activating polypeptide innervation of the rat female reproductive tract and the associated paracervical ganglia: effect of capsaicin. Fahrenkrug J, et al. **Neuroscience** 1996 Aug;73(4):1049–60

Rapid drug application resolves two types of nicotinic receptors on rat sympathetic ganglion cells. Britt JC, et al. **Pflugers Arch** 1997 May;434(1):38–48

EMBRYOLOGY

Restriction of the fate of early migrating trunk neural crest in gangliogenesis of avian embryos. Asamoto K, et al. **Int J Dev Biol** 1995 Dec;39(6):975–84

ENZYMOLOGY

Elevation of either axoplasmic norepinephrine or sodium level induced release of norepinephrine from cardiac sympathetic nerve terminals. Yamazaki T, et al. **Brain Res** 1996 Oct 21;737(1–2):343–6

Distribution of nitric oxide synthase–containing ganglionic neuronal somata and postganglionic fibers in the rat kidney. Liu L, et al. **J Comp Neurol** 1996 May 20;369(1):16–30

Nitric oxide synthase in the autonomic and sensory ganglia innervating the submandibular salivary gland. Soinila S, et al. **Microsc Res Tech** 1996 Sep 1;35(1):32–43

GROWTH & DEVELOPMENT

Region- and stage-specific patterns of melanocortin receptor ontogeny in rat central nervous system, cranial nerve ganglia and sympathetic ganglia. Lichtensteiger W, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):93–110

Phenotype of intraadrenal ganglion neurons during postnatal development in rat. Holgert H, et al. **J Comp Neurol** 1996 Aug 5;371(4):603–20

IMMUNOLOGY

Autoantibodies to sympathetic ganglia, GAD, or tyrosine phosphatase in long-term IDDM with and without ECG-based cardiac autonomic neuropathy. Muhr D, et al. **Diabetes Care** 1997 Jun;20(6):1009–12

Autoantibodies against sympathetic ganglia and evidence of cardiac sympathetic dysinnervation in newly diagnosed and long-term IDDM patients. Schsnell O, et al. **Diabetologia** 1996 Aug;39(8):970–5

METABOLISM

Electron microscopic immunocytochemical evidence for the synaptic connections between tyrosine hydroxylase and substance P containing nerve elements in the coeliac ganglion of cat revealed by a double labelling technique. Fehér E, et al. **Acta Biol Hung** 1996;47(1–4):119–27

Target regulation of VIP expression in sympathetic neurons. Habecker BA, et al. **Ann N Y Acad Sci** 1997 Apr 24; 814:198–208 (47 ref.)

Synaptic transmission at visualized sympathetic boutons: stochastic interaction between acetylcholine and its receptors. Bennett MR, et al. **Biophys J** 1997 Apr; 72(4):1595–606

Whole-cell and perforated patch recordings of four distinct K+ currents in acutely dispersed coeliac-superior mesenteric ganglia neurons of adult rats. Carrier GO. **Brain Res** 1995 Dec 1;701(1–2):1–12

Region- and stage-specific patterns of melanocortin receptor ontogeny in rat central nervous system, cranial nerve ganglia and sympathetic ganglia. Lichtensteiger W, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):93–110

Potassium channel mRNA expression in prevertebral and paravertebral sympathetic neurons. Dixon JE, et al. **Eur J Neurosci** 1996 Jan;8(1):183–91

Cytochrome b558 and hydrogen peroxide production in small intensely fluorescent cells of sympathetic ganglia. Kummer W, et al. **Histochem Cell Biol** 1997 Feb;107(2):151–8

Immunohistochemical characterisation of viscerofugal neurons projecting to the inferior mesenteric and major pelvic ganglia in the male rat. Luckensmeyer GB, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):6–16

Partitioning of CO2 production between glucose and lactate in excised sympathetic ganglia, with implications for brain. Larrabee MG. **J Neurochem** 1996 Oct;67(4):1726–34

Effects of colchicine application to preganglionic axons on choline acetyltransferase activity and acetylcholine content and release in the superior cervical ganglion. Tandon A, et al. **J Neurochem** 1996 Mar;66(3):1033–41

Interleukin-1 involvement in the induction of leukemia inhibitory factor mRNA expression following axotomy of sympathetic ganglia. Carlson CD, et al. **J Neuroimmunol** 1996 Nov;70(2):181–90

Molecular cloning and characterization of an L-epinephrine transporter from sympathetic ganglia of the bullfrog, Rana catesbiana. Apparsundaram S, et al. **J Neurosci** 1997 Apr 15;17(8):2691–702

Molecular cloning of the chicken trkA and its expression in early peripheral ganglia. Bäckström A, et al. **J Neurosci Res** 1996 Oct 1;46(1):67–81

Functional N-methyl-D-aspartate receptors in clonal rat phaeochromocytoma cells. Casado M, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):391–404

Calcium-activated chloride current in normal mouse sympathetic ganglion cells. De Castro F, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):397–408

Vascular permeability in the peripheral autonomic and somatic nervous systems: controversial aspects and comparisons with the blood-brain barrier. Kiernan JA. **Microsc Res Tech** 1996 Oct 1;35(2):122–36 (239 ref.)

Localization, regulation and functions of neurotransmitters and neuromodulators in cervical sympathetic ganglia. Klimaschewski L, et al. **Microsc Res Tech** 1996 Sep 1; 35(1):44–68 (400 ref.)

Early expression of the nerve growth factor receptor ctrkA in chick sympathetic and sensory ganglia. Schröpel A, et al. **Mol Cell Neurosci** 1995 Dec;6(6):544–66

Cyclic AMP and sympathetic neuronal programmed cell death. Chang JY, et al. **Neurochem Int** 1997 Aug; 31(2):161–7

Release-activated Ca2+ transport in neurons of frog sympathetic ganglia. Cseresnyés Z, et al. **Neuron** 1997 Aug; 19(2):403–19

Expression of B1 and B2 bradykinin receptor mRNA and their functional roles in sympathetic ganglia and sensory dorsal root ganglia neurones from wild-type and B2 receptor knockout mice. Seabrook GR, et al. **Neuropharmacology** 1997 Jul;36(7):1009–17

Dystrophin and its isoforms in a sympathetic ganglion of normal and dystrophic mdx mice: immunolocalization by electron microscopy and biochemical characterization. De Stefano ME, et al. **Neuroscience** 1997 Sep;80(2):613–24

Pituitary adenylate cyclase activating polypeptide innervation of the rat female reproductive tract and the associated paracervical ganglia: effect of capsaicin. Fahrenkrug J, et al. **Neuroscience** 1996 Aug;73(4):1049–60

Autoradiographic localization of functional muscarinic receptors in the rat superior cervical sympathetic ganglion reveals an extensive distribution over non-synaptic surfaces of neuronal somata, dendrites and nerve endings. Ramcharan EJ, et al. **Neuroscience** 1996 Apr;71(3):797–832

Molecular characterization and functional expression of a substance P receptor from the sympathetic ganglion of Rana catesbeiana. Simmons MA, et al. **Neuroscience** 1997 Aug;79(4):1219–29

Omega-conotoxin GVIA-resistant neurotransmitter release in postganglionic sympathetic nerve terminals. Smith AB, et al. **Neuroscience** 1996 Feb;70(3):817–24

Long-term impairment in the neurochemical activity of the sympathoadrenal system after neonatal hypoxia in the rat. Soulier V, et al. **Pediatr Res** 1997 Jul;42(1):30–8

PATHOLOGY

Synaptic dysplasia in sympathetic autonomic ganglia. Schmidt RE. **J Neurocytol** 1996 Dec;25(12):777–91 (88 ref.)

Neuropathology of human sympathetic autonomic ganglia. Schmidt RE. **Microsc Res Tech** 1996 Oct 1;35(2):107–21

Neuropathology of the gut. Singaram C. **Semin Neurol** 1996 Sep;16(3):227–34 (73 ref.)

PHYSIOLOGY

ANG II modifies cardiomyocyte function via extracardiac and intracardiac neurons: in situ and in vitro studies. Horackova M, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R766–75

On the role of muscarinic and peptidergic receptors in ganglionic transmission in bullfrogs in vivo. Ivanoff AY, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1501–14

Electrophysiological effects of nitric oxide in mouse superior mesenteric ganglion. Mazet B, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G324–31

Colonic mechanosensory afferent input to neurons in the mouse superior mesenteric ganglion. Miller SM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G357–66

Mechanical modulation of M-current in cultured bullfrog sympathetic ganglion cells. Hara S, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:399–401

Blood flow and autoregulation in somatic and autonomic ganglia. Comparison with sciatic nerve. McManis PG, et al. **Brain** 1997 Mar;120 (Pt 3):445–9

Identification of sympathetic preganglionic neurons controlling the small intestine in hamsters using a recombinant herpes simplex virus type-1. Mabon PJ, et al. **Brain Res** 1997 Apr 11;753(2):245–50

Sympathetic effects on the steroidogenesis and proliferation of adrenocortical cells in vitro. Wu CH, et al. **Endocr Res** 1996 Nov;22(4):855–9

Immobilization stress elevates gene expression for catecholamine biosynthetic enzymes and some neuropeptides in rat sympathetic ganglia: effects of adrenocorticotropin and glucocorticoids. Nankova B, et al. **Endocrinology** 1996 Dec;137(12):5597–604

Neuronal input from the inferior mesenteric ganglion (IMG) affects sperm transport within the rat cauda epididymis. Ricker DD, et al. **Int J Androl** 1996 Dec;19(6):371–6

Design, synthesis, tandem mass spectrometric sequencing and biological activity of NGF mimetics. Estenne-Bouhtou G, et al. **Int J Pept Protein Res** 1996 Oct;48(4):337–46

Section of the vagal celiac branch in man reduces glucagon-stimulated insulin release. Kinami S, et al. **J Auton Nerv Syst** 1997 May 12;64(1):44–8

The mammalian sympathetic prevertebral ganglia: integrative properties and role in the nervous control of digestive tract motility. Miolan JP, et al. **J Auton Nerv Syst** 1996 May 6;58(3):125–38 (78 ref.)

Effect of celiac ganglionectomy on tachykinin innervation, receptor distribution and intestinal responses in the rat. Ouyang A, et al. **J Auton Nerv Syst** 1996 Dec 14; 61(3):292–300

Identification of uterine-related sympathetic neurons in the rat inferior mesenteric ganglion: neurotransmitter content and afferent input. Papka RE, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):51–9

The effects of bilateral vagotomy on substance P-like immunoreactive nerves in the cardiac ganglia of the monkey (Macaca fascicularis). Tay SS, et al. **J Hirnforsch** 1997;38(1):125–32

Reinnervation of frog sympathetic ganglia after selective denervation of B or C neurons. Eugene D, et al. **J Neurocytol** 1996 Dec;25(12):763–75

Modulation of Ca2+ currents by various G protein-coupled receptors in sympathetic neurons of male rat pelvic ganglia. Zhu Y, et al. **J Neurophysiol** 1997 Aug;78(2):780–9

Identification of the single channels that underlie the N-type and L-type calcium currents in bullfrog sympathetic neurons. Elmslie KS. **J Neurosci** 1997 Apr 15;17(8):2658–68

Negative feedback neuroendocrine control of inflammatory response in the rat is dependent on the sympathetic postganglionic neuron. Green PG, et al. **J Neurosci** 1997 May 1;17(9):3234–8

Temporal dynamics of graded synaptic transmission in the lobster stomatogastric ganglion. Manor Y, et al. **J Neurosci** 1997 Jul 15;17(14):5610–21

The inhibition of ganglionic transmission via presynaptic dopamine DA1 and postsynaptic DA2 receptor activation in the canine cardiac sympathetic ganglia. Mukai M, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):822–9

On the dominant rhythm in the discharges of single postganglionic sympathetic neurones innervating the rat tail artery. Johnson CD, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):241–59

Interaction between parasympathetic and sympathetic nerves in prevertebral ganglia: morphological evidence for vagal efferent innervation of ganglion cells in the rat. Berthoud HR, et al. **Microsc Res Tech** 1996 Sep 1;35(1):80–6

Localization, regulation and functions of neurotransmitters and neuromodulators in cervical sympathetic ganglia. Klimaschewski L, et al. **Microsc Res Tech** 1996 Sep 1; 35(1):44–68 (400 ref.)

Spontaneous activity of various postganglionic sympathetic nerves in anaesthetized cats. Mitsányi A, et al. **Neurobiology (Bp)** 1996;4(3):271–2

Does nitric oxide mediate plasma extravasation induced by electrical stimulation of the superior salivatory nucleus in cat nasal mucosa? Yoshida K, et al. **Neurosci Res** 1997 Mar; 27(3):281–4

A somatostatin receptor inhibits noradrenaline release from chick sympathetic neurons through pertussis toxin-sensitive mechanisms: comparison with the action of alpha 2-adrenoceptors. Boehm S, et al. **Neuroscience** 1996 Jul; 73(2):595–604

Responses of rat postganglionic sympathetic vasoconstrictor neurons following blockade of nitric oxide synthesis in vivo. Häbler HJ, et al. **Neuroscience** 1997 Apr; 77(3):899–909

Glutamate- and GABA-immunoreactive synapses on sympathetic preganglionic neurons caudal to a spinal cord transection in rats. Llewellyn-Smith IJ, et al. **Neuroscience** 1997 Oct;80(4):1225–35

Nitric oxide and excitatory postsynaptic currents in immature rat sympathetic preganglionic neurons in vitro. Wu SY, et al. **Neuroscience** 1997 Jul;79(1):237–45

Postganglionic sympathetic discharge in neonatal swine. Sica AL, et al. **Pediatr Res** 1996 Jan;39(1):85–9

Activity-related modulation of cholinergic transmission. Collier B. **Prog Brain Res** 1996;109:243–9 (41 ref.)

Evidence that galanin is a parasympathetic, rather than a sympathetic, neurotransmitter in the baboon pancreas. Verchere CB, et al. **Regul Pept** 1996 Dec 3;67(2):93–101

Innervation of the lumbar facet joints. Origins and functions. Suseki K, et al. **Spine** 1997 Mar 1;22(5):477–85

PHYSIOPATHOLOGY

Rapid sprouting of sympathetic axons in dorsal root ganglia of rats with a chronic constriction injury. Ramer MS, et al. **Pain** 1997 Apr;70(2–3):237–44

SURGERY

Plasma catecholamine concentrations in essential hyperhidrosis and effects of thoracoscopic D2–D3 sympathicolysis. Noppen M, et al. **Eur J Clin Invest** 1997 Mar;27(3):202–5

The anterior approach to sympathetic ganglion block. Elias M. **Middle East J Anesthesiol** 1997 Jun;14(2):99–105

Outcome of surgical decompression of the second cervical root for cervicogenic headache [see comments] Pikus HJ, et al. **Neurosurgery** 1996 Jul;39(1):63–70; discussion 70–1. Comment in: Neurosurgery 1997 May;40(5):1105–6.

ULTRASTRUCTURE

Electron microscopic immunocytochemical evidence for the synaptic connections between tyrosine hydroxylase and substance P containing nerve elements in the coeliac ganglion of cat revealed by a double labelling technique. Fehér E, et al. **Acta Biol Hung** 1996;47(1–4):119–27

Differential permeability of blood microvasculatures in various sympathetic ganglia of rodents. Chau YP, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):259–69

Light, electron, and confocal microscopic study of the mouse

superior mesenteric ganglion. Miller SM, et al. **J Comp Neurol** 1996 Feb 12;365(3):427–444
Ultrastructure of neuronal circuitry in sympathetic ganglia. Kawai Y. **Microsc Res Tech** 1996 Oct 1;35(2):146–56 (53 ref.)
Synaptic organization of amphibian sympathetic ganglia. Lascar G, et al. **Microsc Res Tech** 1996 Oct 1;35(2):157–78

GANGLIOCYTOMA see **GANGLIONEUROMA**

GANGLIOGLIOMA

Gangliogliomas in adults. Hakim R, et al. **Cancer** 1997 Jan 1;79(1):127–31

CHEMISTRY

Cerebral gangliogliomas. Morphological and immunohistochemical study. Kroh H, et al. **Folia Neuropathol** 1996;34(2):107–13

CLASSIFICATION

[The revised WHO classification of brain tumors. Radiological aspects of 4 new tumor entities] Zimmer C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):522–7 (Eng. Abstr.) **(Ger)**

COMPLICATIONS

CT, MRI, and PET in a case of intractable epilepsy. Metsähonkala L, et al. **Childs Nerv Syst** 1996 Jul; 12(7):421–4
[Surgical management of intractable epilepsy in patients with ganglioglioma] Morioka T, et al. **No To Shinkei** 1997 Aug; 49(8):729–35 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Central nervous system ganglioglioma. A clinicopathologic study. Radhakrishnan VV, et al. **Indian J Cancer** 1996 Jun; 33(2):97–102
[The revised WHO classification of brain tumors. Radiological aspects of 4 new tumor entities] Zimmer C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):522–7 (Eng. Abstr.) **(Ger)**
[A case of infantile ganglioglioma] Kitahara T, et al. **No Shinkei Geka** 1995 Dec;23(12):1111–5 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Resolution of recurrent malignant ganglioglioma after treatment with cis-retinoic acid. Kaba SE, et al. **J Neurooncol** 1996 Oct;30(1):55–60

GENETICS

Evidence for clonal origin of neoplastic neuronal and glial cells in gangliogliomas. Zhu JJ, et al. **Am J Pathol** 1997 Aug;151(2):565–71
Telomere associations in desmoplastic infantile ganglioglioma. Park JP, et al. **Cancer Genet Cytogenet** 1996 Nov;92(1):4–7
A novel splice site associated polymorphism in the tuberous sclerosis 2 (TSC2) gene may predispose to the development of sporadic gangliogliomas. Platten M, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):806–10

METABOLISM

Proliferative potential and malignant transformation of ganglioglioma: immunohistochemical studies by MIB-1 and p53 staining. Nagai M, et al. **Noshuyo Byori** 1995; 12(2):141–9

PATHOLOGY

Medullocytoma and glioneurocytoma: related tumors? [letter; comment] Min KW. **Am J Surg Pathol** 1997 May; 21(5):615–6. Comment on: Am J Surg Pathol 1996 Jun;20(6):656–64.
Composite pleomorphic xanthoastrocytoma and ganglioglioma: report of four cases and review of the literature. Perry A, et al. **Am J Surg Pathol** 1997 Jul; 21(7):763–71 (23 ref.)
Multifocal neurocytoma/ganglioglioma [letter; comment] al-Sarraj ST. **Am J Surg Pathol** 1997 Feb;21(2):258–9. Comment on: Am J Surg Pathol 1996 Mar;20(3):363–70.
Ganglioglioma: a clinical and pathological study of 12 cases. Isimbaldi G, et al. **Clin Neuropathol** 1996 Jul–Aug; 15(4):192–9
Temporal lobe lesion demonstrating features of dysembryoplastic neuroepithelial tumor and ganglioglioma: a transitional form? Shimbo Y, et al. **Clin Neuropathol** 1997 Mar–Apr;16(2):65–8
Cerebral gangliogliomas. Morphological and immunohistochemical study. Kroh H, et al. **Folia Neuropathol** 1996;34(2):107–13
The clinical significance of extracellular matrix in gangliogliomas. Jaffey PB, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1246–52
Differentiating central neurocytoma. Case report. Schweitzer JB, et al. **J Neurosurg** 1997 Mar;86(3):543–6
Desmoplastic non-infantile ganglioglioma. Galatioto S, et al. **J Neurosurg Sci** 1996 Sep–Dec;40(3–4):235–8
Intracranial ganglioglioma: CT and MRI findings. Luo CB, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Aug; 13(8):467–74
Proliferative potential and malignant transformation of ganglioglioma: immunohistochemical studies by MIB-1 and p53 staining. Nagai M, et al. **Noshuyo Byori** 1995; 12(2):141–9
Unusual cerebellar ganglioglioma with marked cytologic atypia. Jay V, et al. **Pediatr Pathol Lab Med** 1997 Jan–Feb; 17(1):105–14

RADIOGRAPHY

Anaplastic (malignant) ganglioglioma arising from heterotopic grey matter nodules. Demaerel P, et al. **J Neurooncol** 1996 Dec;30(3):237–42

RADIONUCLIDE IMAGING

Cerebral radiation necrosis with accumulation of thallium 201 on single-photon emission CT. Yoshii Y, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1773–6

SURGERY

Ganglioglioma of conus medullaris: a case report. Kurtsoy A, et al. **Neurosurg Rev** 1997;20(1):55–8
Mixed neuronal-glial tumors (gangliogliomas) in children. Chintagumpala MM, et al. **Pediatr Neurosurg** 1996 Jun; 24(6):306–13

ULTRASTRUCTURE

Ganglioglioma: an ultrastructural and immunohistochemical study. Hirose T, et al. **Cancer** 1997 Mar 1;79(5):989–1003

GANGLION OF CORTI see **SPIRAL GANGLION**

GANGLIONECTOMY

Pineal metabolic reaction to retinal photostimulation in ganglionectomized rats. Bartol I, et al. **Brain Res** 1997 Jan 2;744(1):77–82
Cervical gangliectomy does not affect in vitro tryptophan hydroxylase activity in rat brain base arteries. Moreno MJ, et al. **Brain Res** 1997 Feb 21;749(1):161–3
Effect of sympathectomy on the phenotype of smooth muscle cells of middle cerebral and ear arteries of hyperlipidaemic rabbits. Kacem K, et al. **Histochem J** 1997 Apr;29(4):279–86
Left cervicothoracic sympathetic ganglionectomy with thoracoscope for the treatment of idiopathic long QT syndrome. Chen L, et al. **Int J Cardiol** 1997 Aug 29; 61(1):1–3
Effect of celiac ganglionectomy on tachykinin innervation, receptor distribution and intestinal responses in the rat. Ouyang A, et al. **J Auton Nerv Syst** 1996 Dec 14; 61(3):292–300
Effect of pinealectomy, superior cervical ganglionectomy, or melatonin treatment on 24-hour rhythms in ornithine decarboxylase and tyrosine hydroxylase activities of rat spleen. Cardinali DP, et al. **J Pineal Res** 1997 May; 22(4):210–20
Serial kinematic analysis of the canine hindlimb joints after deafferentation and anterior cruciate ligament transection. Vilensky JA, et al. **Osteoarthritis Cartilage** 1997 May; 5(3):173–82
Acute effects of unilateral pelvic ganglionectomy on urinary bladder function in vivo in the male rat. Berggren T, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):179–84
Dorsal root ganglionectomy for intractable monoradicular sciatica. A series of 61 patients. Taub A, et al. **Stereotact Funct Neurosurg** 1995;65(1–4):106–10
[Effect of superior cervical sympathetic ganglionectomy on FSH, LH and GH cells of hypophyseal gland in female rats: a quantitative immunohistochemical study] Tan Y, et al. **Masui** 1996 Oct;45(10):1223–34 (Eng. Abstr.) **(Jpn)**
[Molecular mechanisms of the pathogenetic disruption of phospholipid-chromatin interaction in the white rat brain in the case of unilateral gangliosympathectomy] Karagezian KG, et al. **Dokl Akad Nauk** 1997 Apr;353(6):825–7 **(Rus)**

METHODS

Effective therapy with transthoracic video-assisted endoscopic coagulation of the left stellate ganglion and upper sympathetic trunk in congenital long-QT syndrome. Wong CW, et al. **Am Heart J** 1996 Nov;132(5):1060–3
Posterior left thoracic cardiac sympathectomy by surgical division of the sympathetic chain: an alternative approach to treatment of the long QT syndrome. Epstein AE, et al. **Pacing Clin Electrophysiol** 1996 Jul;19(7):1095–104
[Thoracic sympathectomy via the thoracoscopic approach. The operative technic] Copăescu C, et al. **Chirurgia (Bucur)** 1997 Mar–Apr;92(2):105–8 (Eng. Abstr.) **(Rum)**

GANGLIONEUROBLASTOMA

CHEMISTRY

Cerebellin and cerebellin mRNA in the human brain, adrenal glands and the tumour tissues of adrenal tumour, ganglioneuroblastoma and neuroblastoma. Satoh F, et al. **J Endocrinol** 1997 Jul;154(1):27–34

COMPLICATIONS

Idiopathic hypothalamic dysfunction: a paraneoplastic syndrome? Nunn K, et al. **J Child Neurol** 1997 Jun; 12(4):276–81 (27 ref.)
Treatment with intravenously administered immunoglobulins of the neuroblastoma-associated opsoclonus-myoclonus [letter; comment] Borgna-Pignatti C, et al. **J Pediatr** 1996 Jul;129(1):179–80. Comment on: J Pediatr 1995 Aug;127(2):328–9.
Severe hypertension and cardiac failure associated with neuroblastoma: a case report. Sendo D, et al. **J Pediatr Surg** 1996 Dec;31(12):1688–90
Neurologic complications of the primary pediatric extracranial neuroblastomas. Tasdemiroglu E, et al. **Neurol Res** 1997 Feb;19(1):45–50

DIAGNOSIS

Bilateral intraabdominal ganglioneuroblastoma in an adult. Mehta N, et al. **Br J Radiol** 1997 Jan;70:96–8
False positive MIBG scan. Frappaz D, et al. **Med Pediatr Oncol** 1997 Dec;29(6):589–92

PATHOLOGY

Conventional versus modified morphologic criteria for ganglioneuroblastoma. A review of cases from the Pediatric Oncology Group. Joshi VV, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):859–65
Primary adrenal ganglioneuroblastoma in an adult. Hiroshige K, et al. **Intern Med** 1995 Dec;34(12):1168–73
Gastric ganglioneuroblastoma: a rare finding in an infant with multifocal ganglioneuroblastoma. Sandoval C, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):409–12 (19 ref.)

RADIOTHERAPY

[Iodobenzylguanide-131 therapy as first choice in non-metastasized neuroblastoma] De Kraker J, et al. **Ned Tijdschr Geneeskd** 1996 Oct 5;140(40):1997–2000 (Eng. Abstr.) **(Dut)**

SECONDARY

Neurologic complications of the primary pediatric extracranial neuroblastomas. Tasdemiroglu E, et al. **Neurol Res** 1997 Feb;19(1):45–50

GANGLIONEUROMA

Malignant peripheral nerve sheath tumor arising in a "de novo" ganglioneuroma: a case report and review of the literature. Drago G, et al. **Med Pediatr Oncol** 1997 Mar; 28(3):216–22 (21 ref.)
[Ganglioneuroma] Inoue I, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):443–5 (9 ref.) **(Jpn)**
[Retroperitoneal ganglioneuroma. Report of a case] Hernando Almudí E, et al. **Arch Esp Urol** 1997 Mar; 50(2):202–4 (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY

Hypervascularity in Lhermitte-Duclos disease—case report. Ishizaki K, et al. **Neurol Med Chir (Tokyo)** 1997 May; 37(5):403–6

COMPLICATIONS

Duodenal ganglioneuroma: a rare cause of upper GI hemorrhage. Freeman BD, et al. **Am J Gastroenterol** 1996 Dec;91(12):2626–7
Torticollis acquired in late infancy due to a cerebellar gangliocytoma. Caress JB, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jun;36(1):39–44

DIAGNOSIS

Intrasellar mixed gangliocytoma-adenoma [letter] Castillo M, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1199–200
Colonic ganglioneuroma presenting as filiform polyposis. Dellinger GW, et al. **J Clin Gastroenterol** 1996 Jan; 22(1):66–70
Cervical dumbbell ganglioneuroma in an eighteen month old child. A case report. Maggi G, et al. **J Neurosurg Sci** 1995 Dec;39(4):257–60
Magnetic resonance imaging of neurogenic tumors of the thoracic inlet: determination of the parent nerve. Sakai F, et al. **J Thorac Imaging** 1996 Fall;11(4):272–8
Late malignant transformation of dormant ganglioneuroma? [clinical conference] Moschovi M, et al. **Med Pediatr Oncol** 1997 May;28(5):377–81
MRI in Lhermitte-Duclos disease. Kulkantrakorn K, et al. **Neurology** 1997 Mar;48(3):725–31
Ultrasonography, CT and MRI of retropharyngeal ganglioneuroma: a very rare neoplasm in adults. Preidler KW, et al. **Neuroradiology** 1996 May;38(4):378–80
Adrenal and extra-adrenal retroperitoneal ganglioneuroma: imaging findings in 13 adults. Radin R, et al. **Radiology** 1997 Mar;202(3):703–7
Lhermitte-Duclos disease (cerebellar gangliocytoma). da Silva AA, et al. **South Med J** 1996 Dec;89(12):1208–12
[Ganglioneuroma of the adrenal glands (letter)] Gignoux BM, et al. **Presse Med** 1996 Sep 7;25(25):1169–70 **(Fre)**

GANGLIONEUROMA

[Retroperitoneal ganglioneuroma: a case report] Oyama N, et al. **Hinyokika Kiyo** 1996 Sep;42(9):663–5 (Eng. Abstr.) **(Jpn)**

[Clinical study of intraspinal neoplasms in children] Takahashi I, et al. **No Shinkei Geka** 1996 Jul;24(7):605–11 (Eng. Abstr.) **(Jpn)**

[Retroperitoneal tumors of nervous origin in adults] Andronescu P, et al. **Chirurgia (Bucur)** 1997 Jan–Feb; 92(1):39–45 (Eng. Abstr.) **(Rum)**

GENETICS

Spatial association of apoptosis–related gene expression and cellular death in clinical neuroblastoma. Hoehner JC, et al. **Br J Cancer** 1997;75(8):1185–94

METABOLISM

Expression of the RET proto–oncogene in normal human tissues, pheochromocytomas, and other tumors of neural crest origin. Takaya K, et al. **J Mol Med** 1996 Oct; 74(10):617–21

PATHOLOGY

Cystic ganglioneurocytoma outside the ventricular region. Funato H, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):95–8

Composite pheochromocytoma/ganglioneuroma of the adrenal gland associated with multiple endocrine neoplasia 2A: case report with immunohistochemical analysis. Brady S, et al. **Am J Surg Pathol** 1997 Jan;21(1):102–8

Multifocal neurocytoma/gangliocytoma with extensive leptomeningeal dissemination in the brain and spinal cord [see comments] Yamamoto T, et al. **Am J Surg Pathol** 1996 Mar;20(3):363–70. Comment in: Am J Surg Pathol 1997 Feb;21(2):258–9.

[Pheochromocytoma–ganglioneuroma of the adrenal gland] Dudorkinová D. **Cesk Patol** 1996 Aug;32(3):105–9 (Eng. Abstr.) **(Cze)**

[Dysplastic gangliocytoma of the cerebellum (Lhermitte–Duclos)] Kod'ousek R, et al. **Cesk Patol** 1996 Aug;32(3):89–96 (Eng. Abstr.) **(Cze)**

[Retroperitoneal bifocal ganglioneuroma—a case report] Hallscheidt P, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Apr;166(4):351–4 **(Ger)**

RADIOGRAPHY

Primary adrenal ganglioneuroma: CT findings in four patients. Johnson GL, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):169–71

SURGERY

Thoracoscopy in the management of intrathoracic neurogenic tumors. Ishida T, et al. **Int Surg** 1996 Oct–Dec; 81(4):347–9

Cervical dumbbell ganglioneuroma in an eighteen month old child. A case report. Maggi G, et al. **J Neurosurg Sci** 1995 Dec;39(4):257–60

Lesions in eloquent cortex [clinical conference] Berger MS, et al. **Neurosurgery** 1997 May;40(5):1059–63

Intrasellar pituitary gangliocyto–adenoma presenting with acromegaly: case report. Morikawa M, et al. **Neurosurgery** 1997 Mar;40(3):611–4; discussion 614–5 (34 ref.)

[Case of bilateral retroperitoneal ganglioneuroma and renal artery abnormality with spasmodic hypertension, excessive catecholamine secretion after the removal of the tumor near right adrenal gland] Kojima M, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):922–4 **(Jpn)**

GANGLIONIC BLOCKERS

see related
NICOTINIC ANTAGONISTS
RECEPTORS, NICOTINIC

ADMINISTRATION & DOSAGE

Metformin inhibits ganglionic neurotransmission in renal nerves. Petersen JS, et al. **Hypertension** 1997 May; 29(5):1173–7

PHARMACOLOGY

The effects of hexamethonium on cerebral blood flow and cerebral function during relative cerebral ischaemia in rats. Skarphedinsson JO, et al. **Acta Physiol Scand** 1996 Sep; 158(1):21–8

Effects of age on cardiovascular responses to adrenaline in man. White M, et al. **Br J Clin Pharmacol** 1997 Apr; 43(4):407–14

Cholinergic and peptidergic regulation of siphon/mantle function in the zebra mussel, Dreissena polymorpha. Ram JL, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jul;117(3):275–82

Ibogaine: a potent noncompetitive blocker of ganglionic/neuronal nicotinic receptors. Badio B, et al. **Mol Pharmacol** 1997 Jan;51(1):1–5

[Nicotinic currents of cultured rat superior cervical ganglion neurons and use–dependent block by mecamylamine] Liu QS, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov; 16(6):520–3 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

[Stress protection therapy in surgical patients] Nazarov IP, et al. **Anesteziol Reanimatol** 1996 Jul–Aug;(4):45–6 **(Rus)**

GANGLIONIC BLOCKING AGENTS see **GANGLIONIC BLOCKERS**

GANGLIONIC STIMULANTS

see related
NICOTINIC AGONISTS
RECEPTORS, NICOTINIC

ADMINISTRATION & DOSAGE

The benefits of stopping smoking and the role of nicotine replacement therapy in older patients. Gourlay SG, et al. **Drugs Aging** 1996 Jul;9(1):8–23 (125 ref.)

The emerging market for long–term nicotine maintenance. Warner KE, et al. **JAMA** 1997 Oct 1;278(13):1087–92

PHARMACOKINETICS

Evolution of anisotropic diffusion in the developing rat corpus callosum. Vorisek I, et al. **J Neurophysiol** 1997 Aug; 78(2):912–9

PHARMACOLOGY

Nicotine enhances expression of the neutrophil elastase gene and protein in a human myeloblast/promyelocyte cell line. Armstrong LW, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1520–4

Tachyphylaxis and sensitization to nicotine–induced tachycardiac and pressor effects after nicotine infusions. Cruz SL, et al. **Arch Med Res** 1997 Summer;28(2):189–94

Nicotine injections into the ventral tegmental area increase locomotion and Fos–like immunoreactivity in the nucleus accumbens of the rat. Panagis G, et al. **Brain Res** 1996 Aug 19;730(1–2):133–42

Regional variation in the effects of nicotine on catecholamine overflow in rat brain. Benwell ME, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):13–20

McN–A–343 increases renal sympathetic nerve activity and blood pressure by a muscarinic and a non–muscarinic mechanism in the rat. Martin JR. **J Auton Pharmacol** 1996 Oct;16(5):281–92

Expression of catecholamine–synthesizing enzymes, peptidylglycine alpha–amidating monooxygenase, and neuropeptide Y mRNA in the rat adrenal medulla after acute systemic nicotine. Jahng JW, et al. **J Mol Neurosci** 1997 Feb;8(1):45–52

The legal and scientific basis for FDA's assertion of jurisdiction over cigarettes and smokeless tobacco. Kessler DA, et al. **JAMA** 1997 Feb 5;277(5):405–9

The reversal of experimental hemorrhagic shock induced by nicotine and dimethylphenylpiperazinium is adrenal–dependent. Bazzani C, et al. **Resuscitation** 1996 Apr;31(2):145–50

THERAPEUTIC USE

The effect of mesalamine and nicotine in the treatment of inflammatory bowel disease. Bonapace CR, et al. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):907–13 (32 ref.)

Treatment of spastic dystonia with transdermal nicotine [letter] Vaughan CJ, et al. **Lancet** 1997 Aug 23; 350(9077):565

GANGLIOPLEGIC AGENTS see **GANGLIONIC BLOCKERS**

GANGLIOSIDES

ADVERSE EFFECTS

Exogenous gangliosides and Guillain–Barré syndrome. An observational study in the local health district of Ferrara, Italy. Govoni V, et al. **Brain** 1997 Jul;120 (Pt 7):1123–30

ANALYSIS

Comparison of content and distribution of human milk gangliosides from Spanish and Panamanian mothers. Rueda R, et al. **Ann Nutr Metab** 1996;40(4):194–201

Gangliosides involved in activation of rat T lineage cells. Nohara K, et al. **Biochim Biophys Acta** 1997 Apr 1; 1345(2):207–14

The localization of gangliosides in neurons of the central nervous system: the use of anti–ganglioside antibodies. Schwarz A, et al. **Biochim Biophys Acta** 1996 Oct 29; 1286(3):247–67 (334 ref.)

New data on content and distribution of gangliosides in human milk. Rueda R, et al. **Biol Chem Hoppe Seyler** 1995 Dec;376(12):723–7

Immunocytochemical analysis of gangliosides in rat primary cerebellar cultures using specific monoclonal antibodies. Kawashima I, et al. **Brain Res** 1996 Sep 2;732(1–2):75–86

Gangliosides expressed in human breast cancer. Marquina G, et al. **Cancer Res** 1996 Nov 15;56(22):5165–71

Expression of GD3 disialoganglioside antigen on peripheral T–lymphocytes in patients with disseminated malignant melanoma. Welte B, et al. **Exp Dermatol** 1997 Apr;6(2):64–9

Human medulloblastoma gangliosides. Chang F, et al. **Glycobiology** 1997 Jun;7(4):523–30

Developmental changes in carbohydrate antigens in embryonic rat lens. Ogiso M, et al. **Glycobiology** 1997 Jul; 7(5):605–15

Ganglioside composition of the rat choriocarcinoma cell line, Rcho–1. Shirai T, et al. **Glycoconj J** 1996 Jun;13(3):415–21

Glycolipids and myelin proteins in human oligodendrogliomas. Sung CC, et al. **Glycoconj J** 1996 Jun; 13(3):433–43

Expression of carbohydrate antigen sialyl Le(a): a new functional prognostic factor in gastric cancer. Nakamori S, et al. **J Clin Oncol** 1997 Feb;15(2):816–25

Quantification of gangliosides by microbore high performance liquid chromatography. Wagener R, et al. **J Lipid Res** 1996 Aug;37(8):1823–9

A critical analysis of total sialic acid and sialoglycoconjugate contents of bovine milk–based infant formulas. Sánchez–Díaz A, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):405–10

Isolation and characterization of gangliosides from Theileria sergenti. Watarai S, et al. **J Vet Med Sci** 1996 Nov; 58(11):1099–105

Gangliosides in membranes from Torpedo electric organ. Hann RM, et al. **Lipids** 1996 Jun;31(6):627–33

Gangliosides of dogfish (Squalus acanthias) brain. Nakamura K, et al. **Neurochem Int** 1997 Jun;30(6):593–604

Sialyl Lewis(a) ganglioside in pancreatic cancer tissue correlates with the serum CA 19–9 level. Hamanaka Y, et al. **Pancreas** 1996 Aug;13(2):160–5

Evidence for the existence of ganglioside molecules in the antigen of Entamoeba histolytica. Sorice M, et al. **Parasite Immunol** 1996 Mar;18(3):133–7

[Ceramides and gangliosides in benign and malignant human ovarian tumors] Andreasian GO, et al. **Vopr Med Khim** 1996 Jul–Sep;42(3):248–53 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Preparation of GM1 ganglioside with sialidase–producing marine bacteria as a microbial biocatalyst. Fukano Y, et al. **Appl Environ Microbiol** 1997 May;63(5):1861–5

Compartmental organization of ganglioside synthesis in the Golgi complex. Maccioni HJ, et al. **Biocell** 1996 Dec; 20(3):279–86 (37 ref.)

Up–regulation of ganglioside biosynthesis, functional synapse formation, and memory retention by a synthetic ceramide analog (L–PDMP). Inokuchi J, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):595–600

Differential expression of gangliosides and galactolipids in fetal human oligodendrocytes and astrocytes in culture. Satoh JI, et al. **Brain Res Dev Brain Res** 1996 May 31; 93(1–2):172–81

Stage–specific expression of fuco–neolacto– (Lewis X) and ganglio–series neutral glycosphingolipids during brain development: characterization of Lewis X and related glycosphingolipids in bovine, human and rat brain. Dasgupta S, et al. **Glycoconj J** 1996 Jun;13(3):367–75

In vivo growth conditions suppress the expression of ganglioside GM2 and favour that of lacto series gangliosides in the human glioma D–54MG cell line. Fredman P, et al. **Glycoconj J** 1996 Jun;13(3):391–9

Molecular cloning and expression of a fifth type of alpha2,8–sialyltransferase (ST8Sia V). Its substrate specificity is similar to that of SAT–V/III, which synthesize GD1c, GT1a, GQ1b and GT3. Kono M, et al. **J Biol Chem** 1996 Nov 15;271(46):29366–71

Inhibition of endogenous ganglioside synthesis does not block neurite formation by retinoic acid–treated neuroblastoma cells. Li R, et al. **J Biol Chem** 1997 Jan 10;272(2):1349–54

Expression cloning of rat cDNA encoding UDP–galactose:GD2 beta1,3–galactosyltransferase that determines the expression of GD1b/GM1/GA1. Miyazaki H, et al. **J Biol Chem** 1997 Oct 3;272(40):24794–9

Brain–derived gangliosides regulate the cytokine production and proliferation of activated T cells. Irani DN, et al. **J Immunol** 1996 Nov 15;157(10):4333–40

Expression of sulfated gangliosides in the central nervous system. Farrer RG, et al. **J Neurochem** 1997 Feb; 68(2):878–81

GT3 synthesis in the proximal Golgi occurs in a compartment different from those for GD3 and GM3 synthesis. Rosales Fritz VM, et al. **J Neurochem** 1996 Oct;67(4):1393–400

Induction of ganglioside biosynthesis and neurite outgrowth of primary cultured neurons by L–threo–1–phenyl–2–decanoylamino–3–morpholino–1–propanol. Usuki S, et al. **J Neurochem** 1996 Nov; 67(5):1821–30

Immediate early gene c–fos regulates the synthesis of phospholipids but not of gangliosides. Guido ME, et al. **J Neurosci Res** 1996 Jan 1;43(1):93–8

Expression of globo–series gangliosides in human renal cell carcinoma. Saito S, et al. **Jpn J Cancer Res** 1997 Jul; 88(7):652–9

Compartmental organization of the synthesis of GM3, GD3, and GM2 in golgi membranes from neural retina cells. Maxzúd MK, et al. **Neurochem Res** 1997 Apr;22(4):455–61

Expression of 9–O–acetylated gangliosides in the rat hippocampus. Mello LE, et al. **Neurosci Lett** 1996 Jul 26; 213(1):17–20

Expression of 9–O–acetylated gangliosides is correlated with tangential cell migration in the rat brain. Mendez–Otero R, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):97–100

Ganglioside expression in melanomas from Japanese individuals: unusual pattern in two patients with metastatic lesions of acral lentiginous melanomas. Nakano J, et al. **Pigment Cell Res** 1997 Aug;10(4):201–5

BLOOD

High sialic acid reactivity of sugar chain structure Lewis–X in patients with mental retardation. Masuda Y, et al. **Biol Psychiatry** 1997 Jul 1;42(1):68–71

Evaluation of the efficiency of an assay procedure for gangliosides in human serum. Negroni E, et al. **Glycoconj J** 1996 Jun;13(3):347–52

Increased level of circulating adhesion molecules in the sera of breast cancer patients with distant metastases. Matsuura N, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):135–9

CEREBROSPINAL FLUID

Gangliosides and sulfatide in cerebrospinal fluid in leukoaraiosis. Tarvonen–Schröder S, et al. **Dement Geriatr Cogn Disord** 1997 May–Jun;8(3):174–9

CHEMICAL SYNTHESIS

A synthetic approach to the c–series gangliosides containing sialy$_1$–alpha(2–>8)sialyl–alpha(2–>8)sialic acid: synthesis of ganglioside GT4, alpha(2–>6) GT4 and GT3. Ando H, et al. **Carbohydr Res** 1997 May 16;300(3):207–17

CHEMISTRY

Changes during lactation in ganglioside distribution in human milk from mothers delivering preterm and term infants. Rueda R, et al. **Biol Chem** 1996 Sep;377(9):599–601

Oriented 1,2–dimyristoyl–sn–glycero–3–phosphorylcholine/ganglioside membranes: a Fourier transform infrared attenuated total reflection spectroscopic study. Band assignments; orientational, hydrational, and phase behavior; and effects of Ca2+ binding. Müller E, et al. **Biophys J** 1996 Sep;71(3):1400–21

Influence of lipid diets on the number of metastases and ganglioside content of H59 variant tumors. Coulombe J, et al. **Clin Exp Metastasis** 1997 Jul;15(4):410–7

Preparation of radiolabeled gangliosides. Sonnino S, et al. **Glycobiology** 1996 Jul;6(5):479–87 (45 ref.)

Application of matrix–assisted laser desorption ionization time–of–flight mass spectrometry with delayed ion extraction to ganglioside analyses. Sugiyama E, et al. **Glycobiology** 1997 Jul;7(5):719–24

Neutral glycosphingolipids and gangliosides from spleen T lymphoblasts of genetically different inbred mouse strains. Müthing J. **Glycoconj J** 1997 Feb;14(2):241–8

Solution structure of a Lewis(x) analogue by off–resonance 1H NMR spectroscopy without use of an internal distance reference. Berthault P, et al. **J Biomol NMR** 1996 Jul; 8(1):23–35

Ganglioside hydration study by 2H–NMR: dependence on temperature and water/lipid ratio. Arnulphi C, et al. **J Lipid Res** 1997 Jul;38(7):1412–20

Control by ganglioside GD1a of phospholipase A2 activity through modulation of the lamellar–hexagonal (HII) phase transition. Maggio B. **Mol Membr Biol** 1996 Apr–Jun; 13(2):109–12

Stabilization of sialic acids in N–linked oligosaccharides and gangliosides for analysis by positive ion matrix–assisted laser desorption/ionization mass spectrometry. Powell AK, et al. **Rapid Commun Mass Spectrom** 1996;10(9):1027–32

DEFICIENCY

Human melanoma cell lines deficient in GD3 ganglioside expression exhibit altered growth and tumorigenic characteristics. Nakano J, et al. **J Invest Dermatol** 1996 Oct;107(4):543–8

IMMUNOLOGY

Intravenous lidocaine: effects on controlling pain after anti–GD2 antibody therapy in children with neuroblastoma—a report of a series. Wallace MS, et al. **Anesth Analg** 1997 Oct;85(4):794–6

Serum antibodies to gangliosides in systemic lupus erythematosus. Neisser A, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:300–2

Association of Campylobacter jejuni serotype with antiganglioside antibody in Guillain–Barré syndrome and Fisher's syndrome. Yuki N, et al. **Ann Neurol** 1997 Jul; 42(1):28–33

Anti–ganglioside antibodies in new onset type 1 diabetic patients and high risk subjects. Tiberti C, et al. **Autoimmunity** 1995;22(1):43–8

A phase I/IB trial of murine monoclonal anti–GD2 antibody 14.G2a plus interleukin–2 in children with refractory neuroblastoma: a report of the Children's Cancer Group. Frost JD, et al. **Cancer** 1997 Jul 15;80(2):317–33

Endothelial–selectin ligands sialyl Lewis(x) and sialyl Lewis(a) are differentiation antigens immunogenic in human melanoma. Ravindranath MH, et al. **Cancer** 1997 May 1;79(9):1686–97

Carbohydrate antigens as targets for active specific immunotherapy. Ragupathi G. **Cancer Immunol Immunother** 1996 Nov;43(3):152–7 (61 ref.)

Immunogenicity of membrane–bound gangliosides in viable whole–cell vaccines. Ravindranath MH, et al. **Cancer Invest** 1997;15(5):491–9 (72 ref.)

Immunosuppression by YAC–1 lymphoma: role of shed gangliosides. Lu P, et al. **Cell Immunol** 1996 Oct 10; 173(1):22–32

Coexpression of GD3 ganglioside with CD45RO in resting and activated human T lymphocytes. Merritt WD, et al. **Cell Immunol** 1996 Oct 10;173(1):131–48

Structural characterization and in vivo immunosuppressive activity of neuroblastoma GD2. Li R, et al. **Glycoconj J** 1996 Jun;13(3):385–9

Very low density lipoproteins and interleukin 2 enhance the immunogenicity of 9–O–acetyl–GD3 ganglioside in BALB/c mice. Dumontet C, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):115–23

Systemic interleukin–2 modulates the anti–idiotypic response to chimeric anti–GD2 antibody in patients with melanoma. Albertini MR, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jul; 19(4):278–95

Phase Ia/Ib trial of anti–GD2 chimeric monoclonal antibody 14.18 (ch14.18) and recombinant human granulocyte–macrophage colony–stimulating factor (rhGM–CSF) in metastatic melanoma. Murray JL, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):206–17

Cross–reactive antibodies against gangliosides and Campylobacter jejuni lipopolysaccharides in patients with Guillain–Barré or Miller Fisher syndrome. Jacobs BC, et al. **J Infect Dis** 1997 Mar;175(3):729–33

A novel ganglioside, 9–O–acetyl GD1b, is recognized by serum antibodies in Guillain–Barré syndrome. Hitoshi S, et al. **J Neuroimmunol** 1996 May;66(1–2):95–101

Cholinergic neuron–specific ganglioside GQ1b alpha a possible target molecule for serum IgM antibodies in some patients with sensory ataxia. Tagawa Y, et al. **J Neuroimmunol** 1997 May;75(1–2):196–9

Antibody to GalNAc–GD1a and GalNAc–GM1b in Guillain–Barré syndrome subsequent to Campylobacter jejuni enteritis. Yuki N, et al. **J Neuroimmunol** 1996 Dec; 71(1–2):155–61

Acute oropharyngeal palsy is associated with antibodies to GQ1b and GT1a gangliosides. O'Leary CP, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):649–51

Chronic sensory ataxic neuropathy and ophthalmoplegia with oculomotor nerve hypertrophy associated with IgM antibodies against gangliosides containing disialosyl groups [letter] Umehara F, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):673–4

Acute motor axonal neuropathy with high titer IgG and IgA anti–GD1a antibodies following Campylobacter enteritis. Lugaresi A, et al. **J Neurol Sci** 1997 Apr 15;147(2):193–200

Antibodies to fucoganglioside in neurological diseases. Yuki N, et al. **J Neurol Sci** 1997 Sep 1;150(1):81–4

Factors defining target specificity in antibody–mediated neuropathy: density–dependent binding of anti–GD1a polyclonal IgG from a neurological patient. Kremer DM, et al. **J Neurosci Res** 1997 Mar 15;47(6):636–41

Specific serological response by active immunization with GD3–bearing liposomes. Massó O, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1114–20

The crystal structure of a Fab fragment to the melanoma–associated GD2 ganglioside. Pichla SL, et al. **J Struct Biol** 1997 Jun;119(1):6–16

Interferon alpha, GM2 antigen and melanoma immunotherapy [news] Holzman DC. **Mol Med Today** 1996 Sep;2(9):359

Electrodiagnostic findings related to anti–GM1 and anti–GQ1b antibodies in Guillain–Barré syndrome. Jacobs BC, et al. **Muscle Nerve** 1997 Apr;20(4):446–52

Binding of antibodies against GM1 and GD1b in human peripheral nerve. Kusunoki S, et al. **Muscle Nerve** 1997 Jul;20(7):840–5

An animal model of pain produced by systemic administration of an immunotherapeutic anti–ganglioside antibody. Slart R, et al. **Pain** 1997 Jan;69(1–2):119–25

Electrophysiological characteristics of primary afferent fibers after systemic administration of anti–GD2 ganglioside antibody. Xiao WH, et al. **Pain** 1997 Jan;69(1–2):145–51

Cranial polyneuropathy with elevated serum antiganglioside antibody. Matsubara K, et al. **Pediatr Neurol** 1997 Feb; 16(2):149–51

[Anti–ganglioside antibodies and peripheral neuropathies] Humbel RL, et al. **Rev Med Liege** 1996 May;51(5):368–75 (84 ref.) **(Fre)**

[A case of Guillain–Barré syndrome with bulbar palsy and a high titer of anti–GT1a antibody] Hashiguchi S, et al. **Rinsho Shinkeigaku** 1997 Apr;37(4):331–3 (Eng. Abstr.) **(Jpn)**

[Removal ability of IgG anti–GQ1b antibody in immunoadsorption therapy for Fisher syndrome—comparison of the removal ability between tryptophane column and phenylalanine column] Ichikawa H, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):323–9 (Eng. Abstr.) **(Jpn)**

[A case of myeloradiculoneuropathy associated with persistent high titers of anti–GM1 and anti–GD1b antibodies] Niwa K, et al. **Rinsho Shinkeigaku** 1997 Jan; 37(1):26–30 (Eng. Abstr.) **(Jpn)**

[Chronic recurrent polyneuropathy in a patient with autoimmune hemolytic anemia associated with antibodies to gangliosides GM1, GA1, and GD1b] Nomura K, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1131–6 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Anti–ganglioside antibodies in CIDP and related disorders] Saito T, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1376 **(Jpn)**

[Pathogenesis of Guillain–Barré syndrome and Fisher's syndrome: molecular mimicry between antecedent infectious agents and components of nerve tissues] Yuki N. **Rinsho Shinkeigaku** 1995 Dec;35(12):1373–5 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Selectin receptors. 5. Monoclonal antibodies to the synthetic antigens SiaLe(a) and SiaLe(x)] Vlasova EV, et al. **Bioorg Khim** 1996 May;22(5):358–65 (Eng. Abstr.) **(Rus)**

[Antiganglioside antibodies in neuropathies and motor neuronopathies] Gallardo E, et al. **Neurologia** 1996 Dec;11 Suppl 5:75–80 (44 ref.) (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Successive isolation and separation of the major lipid fractions including gangliosides from single biological samples. Dreyfus H, et al. **Anal Biochem** 1997 Jun 15; 249(1):67–78

METABOLISM

The presence of foetal ganglioside antigens 3'–isoLM1 and 3',6'–isoLD1 in both glioma tissue and surrounding areas from human brain. von Holst H, et al. **Acta Neurochir (Wien)** 1997;139(2):141–5

Metabolic changes of E–selectin caused by the binding of a mucin carrying sialylLewis A antigens. Nakada H, et al. **Biochem Biophys Res Commun** 1997 May 29; 234(3):559–63

Valency dependent patterns of binding of human L–selectin toward sialyl and sulfated oligosaccharides of Le(a) and Le(x) types: relevance to anti–adhesion therapeutics. Galustian C, et al. **Biochemistry** 1997 Apr 29;36(17):5260–6

Ganglioside shedding and changes in ceramide biosynthesis in human ovarian tumors. Dyatlovitskaya EV, et al. **Biochemistry (Mosc)** 1997 May;62(5):557–61

Alterations in the ganglioside composition of rat cortical brain slices during experimental lactic acidosis: implications of an enzymatic process independent of the oxidative stress. Barrier L, et al. **Biochim Biophys Acta** 1997 Jul 19; 1336(1):15–22

The gangliosides as a possible molecular coupling factor between the proportion of radiosensitive cells in vitro and the metastatic potential in vivo within a human melanoma cell line. Thomas CP, et al. **Br J Cancer** 1997;75(5):639–49

Ganglioside composition of the human cranial nerves, with special reference to pathophysiology of Miller Fisher syndrome. Chiba A, et al. **Brain Res** 1997 Jan 16; 745(1–2):32–6

Ganglioside biosynthetic gene expression in experimental mouse brain tumors. Ecsedy JA, et al. **Cancer Res** 1997 Apr 15;57(8):1580–3

Synthesis of sialyl Le(x) ganglioside analogues sulfated at C–6 of either the galactose or N–acetylglucosamine residues, and at both of the galactose and N–acetylglucosamine residues: probes for clarifying the real carbohydrate ligand of L–selectin. Komba S, et al. **Carbohydr Res** 1996 May 14;285:C1–8

Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly–N–acetyllactosaminyl chains from human granulocytes. Müthing J. **Carbohydr Res** 1996 Sep 2; 290(2):217–24

Quartz crystal microbalance investigation of the interaction of bacterial toxins with ganglioside containing solid supported membranes. Janshoff A, et al. **Eur Biophys J** 1997;26(3):261–70

Effects of cell surface ganglioside sialidase inhibition on growth control and differentiation of human neuroblastoma cells. Kopitz J, et al. **Eur J Cell Biol** 1997 May;73(1):1–9

Shedding of gangliosides by human medulloblastoma cells. Chang F, et al. **Exp Cell Res** 1997 Aug 1;234(2):341–6

Selective ganglioside desialylation in the plasma membrane of human neuroblastoma cells. Kopitz J, et al. **Glycobiology** 1996 Apr;6(3):367–76

Distinctive ganglioside patterns revealed by anti–ganglioside antibody binding to differentiating CG–4 oligodendrocytes. Schnaar RL, et al. **Glycobiology** 1996 Apr;6(3):257–63

Association of the major ganglioside in sea urchin eggs with yolk lipoproteins. Shogomori H, et al. **Glycobiology** 1997 Apr;7(3):391–8

Molecular dynamics–derived conformation and intramolecular interaction analysis of the N–acetyl–9–O–acetylneuraminic acid–containing ganglioside GD1a and NMR–based analysis of its binding to a human polyclonal immunoglobulin G fraction with selectivity for O–acetylated sialic acids. Siebert HC, et al. **Glycobiology** 1996 Sep;6(6):561–72

Sialyl–Lewis x and Sialyl–Lewis a are associated with MUC1 in human endometrium. Hey NA, et al. **Glycoconj J** 1996 Oct;13(5):769–79

Sphingolipid activator proteins in a human hereditary renal disease with deposition of disialogangliosides. Haltia A, et al. **Histochem J** 1996 Oct;28(10):681–7

Specific binding of Haemophilus influenzae to minor gangliosides of human respiratory epithelial cells. Fakih MG, et al. **Infect Immun** 1997 May;65(5):1695–700

Adhesion of human uroepithelial cells to E–selectin: possible involvement of sialosyl LewisA–ganglioside. Kłopocki

AG, et al. **Int J Cancer** 1996 Oct 9;68(2):239–44

Endothelial and epithelial expression of sialyl Lewis(x) and sialyl Lewis(a) in lesions of breast carcinoma. Renkonen J, et al. **Int J Cancer** 1997 Jun 20;74(3):296–300

Gangliosides in human uveal melanoma metastatic process. Tardif M, et al. **Int J Cancer** 1996 Sep 27;68(1):97–101

Postnatal development of glycosidases and gangliosides in the rat central nervous system. Prasad VV. **Int J Dev Neurosci** 1996 Jul;14(4):481–7

Interaction of ganglioside with specific peptide sequences as a mechanism for the modulation of calmodulin-dependent enzymes. Higashi H, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):66–73

Acceleration of amyloid fibril formation by specific binding of Abeta-(1–40) peptide to ganglioside-containing membrane vesicles. Choo-Smith LP, et al. **J Biol Chem** 1997 Sep 12;272(37):22987–90

Membrane disruption by Alzheimer beta-amyloid peptides mediated through specific binding to either phospholipids or gangliosides. Implications for neurotoxicity. McLaurin J, et al. **J Biol Chem** 1996 Oct 25;271(43):26482–9

Alteration of human melanoma gangliosides by IFN-gamma, IL-2, and IL-4. Ando I, et al. **J Dermatol** 1996 Apr; 23(4):225–9

Correlations between ganglioside storage degree and physiological characteristics of neuronal systems—experimental chloroquine intoxication in miniature pig [published erratum appears in J Hirnforsch 1996;37(3):455] Klinghardt GW. **J Hirnforsch** 1996; 37(2):181–94

Determination of the localization of gangliosides using anti-ganglioside antibodies: comparison of fixation methods. Schwarz A, et al. **J Histochem Cytochem** 1997 Apr;45(4):611–8

Potential to involve multiple effector cells with human recombinant interleukin-2 and antiganglioside monoclonal antibodies in a canine malignant melanoma immunotherapy model. Helfand SC, et al. **J Immunother** 1994 Oct; 16(3):188–97

New evidence for the occurrence of a glycolipid-mediated signal transduction system. Tsuji S, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):289–94 (9 ref.)

Deletion of complex gangliosides of human glioma cells during mitotic cell division. Choi BO, et al. **J Neurooncol** 1997 Sep;34(3):211–9

Effects of FGF-1 and FGF-2 on GD3 immunoreactive spinal neuroepithelial cells. Bannerman PG, et al. **J Neurosci Res** 1996 Sep 1;45(5):549–57

Ganglioside GD3 in radial glia and astrocytes in situ in brains of young and adult mice. Cammer W, et al. **J Neurosci Res** 1996 Oct 1;46(1):18–23

Restricted occurrence of an unusual ganglioside GD1 alpha in rat brain and its possible involvement in dendritic growth of cerebellar Purkinje neurons. Furuya S, et al. **J Neurosci Res** 1996 Apr 1;44(1):73–83

Enhancement by ganglioside GT1b of annexin I phosphorylation in bovine mammary gland in the presence of phosphatidylserine and Ca2+. Katoh N, et al. **Lipids** 1996 Sep;31(9):983–7

Ganglioside expression in lung cancer cell lines. Fuentes R, et al. **Lung Cancer** 1997 Aug;18(1):21–33

Control by ganglioside GD1a of phospholipase A2 activity through modulation of the lamellar-hexagonal (HII) phase transition. Maggio B. **Mol Membr Biol** 1996 Apr–Jun; 13(2):109–12

Light exposure stimulates the activity of ganglioside glycosyltransferases of retina ganglion cells. Bussolino DF, et al. **Neurochem Int** 1997 Jul;31(1):105–11

Age-related changes of the ganglioside long-chain base composition in rat cerebellum. Valsecchi M, et al. **Neurochem Int** 1996 Feb;28(2):183–7

Ganglioside spinal cord changes in chronic relapsing experimental allergic encephalomyelitis induced in the Lewis rats. Zaprianova E, et al. **Neurochem Res** 1997 Feb; 22(2):175–9

Ganglioside alterations in the central and peripheral nervous systems of patients with Creutzfeldt-Jakob disease. Ohtani Y, et al. **Neurodegeneration** 1996 Dec;5(4):331–8

Expression cloning and characterization of a cDNA encoding a novel membrane protein required for the formation of O-acetylated ganglioside: a putative acetyl-CoA transporter. Kanamori A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2897–902

Requirement for GD3 ganglioside in CD95- and ceramide-induced apoptosis. De Maria R, et al. **Science** 1997 Sep 12;277(5332):1652–5

Ganglioside content of human platelets—differences in resting and activated platelets. Ferroni P, et al. **Thromb Haemost** 1997 Mar;77(3):548–54

Comparison of sialyl-Lewis a-carrying CD43 and MUC1 mucins secreted from a colon carcinoma cell line for E-selectin binding and inhibition of leukocyte adhesion. Zhang K, et al. **Tumour Biol** 1997;18(3):175–87

Avian influenza A viruses differ from human viruses by recognition of sialyloligosaccharides and gangliosides and by a higher conservation of the HA receptor-binding site. Matrosovich MN, et al. **Virology** 1997 Jun 23;233(1):224–34

[Restricted expression of ganglioside GD1C on mouse naive helper T cells] Nakamura K. **Seikagaku** 1996 Dec; 68(12):1812–6 (16 ref.) **(Jpn)**

PHARMACOLOGY

Gangliosides modulate the growth rate and cell phenotype of a murine primitive neuro-ectodermal tumour. Vaquero J, et al. **Acta Neurochir (Wien)** 1996;138(6):759–62

Lysosomal proteolysis of prosaposin, the precursor of saposins (sphingolipid activator proteins): its mechanism and inhibition by ganglioside. Hiraiwa M, et al. **Arch Biochem Biophys** 1997 May 1;341(1):17–24

Gangliosides minimize motor disabilities and histopathological changes in cortical lesioned and transplanted rats. García JD, et al. **Arch Med Res** 1996 Winter;27(4):465–71

Nanomolar concentrations of gangliosides stimulate primary humoral response. Dozmorov IM, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):57–63

Gangliosides block antigen presentation by human monocytes. Heitger A, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):161–8

Multivalent ganglioside and sphingosine conjugates modulate myelin protein kinases. Mahoney JA, et al. **Biochim Biophys Acta** 1997 Aug 14;1328(1):30–40

Effects of gangliosides, ouabain and arachidonic acid on glutamate cytotoxicity in PC12 cells. Cunha GM, et al. **Biol Pharm Bull** 1997 Feb;20(2):149–52

Widespread occurrence of ganglioside-stimulated protein kinase in animal brains. Chan KF, et al. **Biol Signals** 1997 Jan–Feb;6(1):21–8

Effects of neuroblastoma tumor gangliosides on platelet adhesion to collagen. Fang LH, et al. **Clin Exp Metastasis** 1997 Jan;15(1):33–40

The effect of exogenous gangliosides on matrix metalloproteinase secretion by human glioma cells in vitro. Maidment SL, et al. **Eur J Cancer** 1996 May;32A(5):868–71

L-selectin ligands in rat high endothelium: multivalent sialyl Lewis x glycans are high-affinity inhibitors of lymphocyte adhesion. Toppila S, et al. **Eur J Immunol** 1997 Jun; 27(6):1360–5

Differential modulation of basic fibroblast and epidermal growth factor receptor activation by ganglioside GM3 in cultured retinal Müller glia. Meuillet E, et al. **Glia** 1996 Jul;17(3):206–16

Effects of exogenous gangliosides on intracellular Ca2+ mobilization and functional responses in human platelets. Yatomi Y, et al. **Glycobiology** 1996 Apr;6(3):347–53

Gangliosides protect human melanoma cells from ionizing radiation-induced clonogenic cell death. Thomas CP, et al. **Glycoconj J** 1996 Jun;13(3):377–84

Inhibition of Helicobacter pylori binding to gastrointestinal epithelial cells by sialic acid-containing oligosaccharides. Simon PM, et al. **Infect Immun** 1997 Feb;65(2):750–7

Inactivation of inhibitors by the receptor-destroying enzyme of influenza C virus. Höfling K, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):567–70

Brain-derived gangliosides regulate the cytokine production and proliferation of activated T cells. Irani DN, et al. **J Immunol** 1996 Nov 15;157(10):4333–40

Ganglioside effects on basic fibroblast and epidermal growth factor receptors in retinal glial cells. Meuillet E, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):277–88

Modulation of major histocompatibility complex class I genes by interferon-gamma and ganglioside GT 1b in astrocytes: involvement of protein tyrosine phosphatases. Massa PT, et al. **J Neurochem** 1996 Nov;67(5):1831–9

Gangliosides inhibit growth factor-stimulated neurite outgrowth in SH-SY5Y human neuroblastoma cells. Hynds DL, et al. **J Neurosci Res** 1997 Mar 15;47(6):617–25

Ruthenium red neurotoxicity and interaction with gangliosides in primary cortical cultures. Velasco I, et al. **J Neurosci Res** 1997 Jul 1;49(1):72–9

The role of GM1-ganglioside in the injured spinal cord of rats: an immunohistochemical study using GM1-antisera. Imanaka T, et al. **J Neurotrauma** 1996 Mar;13(3):163–70

Gangliosides reduce the development of ethanol dependence without affecting ethanol tolerance. Snell LD, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):128–36

Sulfo-Lewis(x) diminishes neutrophil infiltration and free radicals with minimal effect on serum cytokines after liver ischemia and reperfusion. Garcia-Criado FJ, et al. **J Surg Res** 1997 Jul 1;70(2):187–94

Exogenous application of gangliosides changes the state of excitability of retinal tissue as demonstrated by retinal spreading depression experiments. Fernandes de Lima VM, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):507–14

Effect of ganglioside (GM1) on memory in senescent rats. Silva RH, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):583–6

Effects of long-term ganglioside GM1 administration on a new discriminative avoidance test in normal adult mice. Silva RH, et al. **Psychopharmacology (Berl)** 1997 Feb; 129(4):322–8

[The positive effect of pretreatment with serotonin and gangliosides on the development of early mouse embryos after cryopreservation] Sakharova NIu, et al. **Ontogenez** 1997 Mar–Apr;28(2):125–31 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Inhibition of highly metastatic FBJ-LL cell migration by ganglioside GD1a highly expressed in poorly metastatic FBJ-S1 cells. Hyuga S, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):340–3

Ganglioside GD1alpha functions in the adhesion of metastatic tumor cells to endothelial cells of the target tissue. Taki T, et al. **Cancer Res** 1997 May 15;57(10):1882–8

Tissue and developmental specificity of a polysialo-ganglioside species in the amphibian Xenopus. Bernardini G, et al. **Cell Biol Int** 1996 Oct;20(10):667–72

Blockage of 9-O-acetyl gangliosides induces microtubule depolymerization in growth cones and neurites. Araujo H, et al. **Eur J Cell Biol** 1997 Mar;72(3):202–13

Role of acetylated gangliosides on neurite extension. Mendez-Otero R, et al. **Eur J Cell Biol** 1996 Oct; 71(2):192–8

Gangliosides protect human melanoma cells from ionizing radiation-induced clonogenic cell death. Thomas CP, et al. **Glycoconj J** 1996 Jun;13(3):377–84

Specific binding of Haemophilus influenzae to minor gangliosides of human respiratory epithelial cells. Fakih MG, et al. **Infect Immun** 1997 May;65(5):1695–700

T cell activation via the disialoganglioside GD3: analysis of signal transduction. Ortaldo JR, et al. **J Leukoc Biol** 1996 Oct;60(4):533–9

Anti-ganglioside monoclonal antibody AA4 selectively inhibits IgE-induced signal transduction pathways in rat basophilic leukemia cells. Stephan V, et al. **Mol Immunol** 1997 Feb;34(3):227–35

Mice with disrupted GM2/GD2 synthase gene lack complex gangliosides but exhibit only subtle defects in their nervous system. Takamiya K, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10662–7

Signal properties of brain gangliosides. Kalueff AV. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):15–9 (22 ref.)

[Discovery of a novel bioactivity of gangliosides: gangliosides as differentiation-inducers for human leukemic cells and mechanism(s) of their action] Nojiri H. **Seikagaku** 1996 Aug;68(8):1429–44 (50 ref.) **(Jpn)**

[Sialosyl-Le(a) and Sialosyl-Le(x) antigens in adhesion of cancer cells and tumor progression] Ugorski M, et al. **Postepy Hig Med Dosw** 1996;50(3):209–31 (111 ref.) (Eng. Abstr.) **(Pol)**

[Gangliosides synchronize the rhythm of protein synthesis in hepatocytes in vitro] Brodskiĭ VIa, et al. **Izv Akad Nauk Ser Biol** 1996 Sep–Oct;(5):517–22 (Eng. Abstr.) **(Rus)**

[Gangliosides as neurobiochemical markers] De Luka SR, et al. **Med Pregl** 1996;49(9–10):377–83 (23 ref.) (Eng. Abstr.) **(Scr)**

SECRETION

Abrogation of shedding of immunosuppressive neuroblastoma gangliosides. Li R, et al. **Cancer Res** 1996 Oct 15;56(20):4602–5

THERAPEUTIC USE

Gangliosides in chagas' heart disease: a potential treatment for a disease without treatment [letter] Bestetti RB. **Cardiology** 1997 May–Jun;88(3):305–7

[The protective effect in man of cerebral cortical gangliosides on temporary hearing loss induced by high-intensity noise] Maniero G, et al. **Riv Med Aeronaut Spaz** 1975 Apr–Sep; 38(2–3):307–16 (Eng. Abstr.) **(Ita)**

[Neuroprotection in cerebral ischemia] Martínez-Vila E, et al. **Neurologia** 1995 Dec;10 Suppl 2:30–6 (56 ref.) (Eng. Abstr.) **(Spa)**

[Neuroprotective and neurorestorative therapy in Parkinson's disease] Jiménez-Jiménez FJ, et al. **Rev Neurol** 1997 Aug; 25 Suppl 2:S185–93 (207 ref.) (Eng. Abstr.) **(Spa)**

GANGLIOSIDOSES

GENETICS

Molecular analysis of a GM2-activator deficiency in two patients with GM2-gangliosidosis AB variant. Schepers U, et al. **Am J Hum Genet** 1996 Nov;59(5):1048–56

Mice lacking both subunits of lysosomal beta-hexosaminidase display gangliosidosis and mucopolysaccharidosis. Sango K, et al. **Nat Genet** 1996 Nov;14(3):348–52

METABOLISM

Intracellular degradation of sulforhodamine-GM1: use for a fluorescence-based characterization of GM2-gangliosidosis variants in fibroblasts and white blood cells. Agmon V, et al. **Clin Chim Acta** 1996 Mar 29; 247(1-2):105–20

PATHOLOGY

Intracellular degradation of sulforhodamine-GM1: use for a fluorescence-based characterization of GM2-gangliosidosis variants in fibroblasts and white blood cells. Agmon V, et al. **Clin Chim Acta** 1996 Mar 29; 247(1-2):105–20

Mouse model of GM2 activator deficiency manifests cerebellar pathology and motor impairment. Liu Y, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8138–43

VETERINARY

Unusual gangliosidosis in emu (Dromaius novaehollandiae). Freischutz B, et al. **J Neurochem** 1997 May;68(5):2070–8

GANGLIOSIDOSIS G(M1)

BLOOD

Hyperphosphatasemia in early diagnosed infantile GM1 gangliosidosis presenting as transient hydrops fetalis. Denis R, et al. **Acta Clin Belg** 1996;51(5):320–7

DIAGNOSIS

Comments on "type 3 GM1 gangliosidosis: clinical and neuroradiological findings in an 11-year-old girl" [letter; comment] Uyama E, et al. **J Neurol** 1996 Mar;243(3):295–7 . Comment on: J Neurol 1995 May;242(5):299–303.

GM1-gangliosidosis presenting as nonimmune hydrops fetalis: a case report. Tasso MJ, et al. **J Perinat Med** 1996; 24(5):445–9

ENZYMOLOGY

Molecular form and subcellular distribution of acid beta-galactosidase in fibroblasts from patients with GM1 gangliosidosis, Morquio B disease and galactosialidosis. Takiyama N, et al. **Brain Dev** 1997 Mar;19(2):126–30

beta-Galactosidase gene mutations in patients with slowly progressive GM1 gangliosidosis. Kaye EM, et al. **J Child Neurol** 1997 Jun;12(4):242–7 (19 ref.)

GENETICS

Comparison of the canine and human acid beta-galactosidase gene. Ahern-Rindell AJ, et al. **Am J Med Genet** 1996 May 17;63(2):340–5

Neurological manifestations of knockout mice with beta-galactosidase deficiency. Matsuda J, et al. **Brain Dev** 1997 Jan;19(1):19–20

METABOLISM

Generalized CNS disease and massive GM1-ganglioside accumulation in mice defective in lysosomal acid beta-galactosidase. Hahn CN, et al. **Hum Mol Genet** 1997 Feb;6(2):205–11

VETERINARY

Profile of electrodiagnostic abnormalities in cats with GM1 gangliosidosis. Steiss JE, et al. **Am J Vet Res** 1997 Jul; 58(7):706–9

GANGLIOSIDOSIS G(M2), TYPE I see **TAY-SACHS DISEASE**

GANGLIOSIDOSIS G(M2), TYPE II see **SANDHOFF DISEASE**

GANGRENE

CHEMICALLY INDUCED

Dihydroergotamine in the treatment of head injury--risk of gangrene and renal failure [letter; comment] Grande PO, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1255–7. Comment on: Acta Anaesthesiol Scand 1996 Mar;40(3):389–91.

Mammary gangrene associated with warfarin ingestion. Isenberg JS, et al. **Ann Plast Surg** 1996 Nov;37(5):553–5

A rare presentation of falciparum malaria [letter; comment] Mishra SK, et al. **J Assoc Physicians India** 1996 Jun; 44(6):432. Comment on: J Assoc Physicians India 1995 Aug;43(8):582.

Ergotamine induced gangrene. Mansoor T, et al. **J Indian Med Assoc** 1996 Apr;94(4):163

Gangrene complicating dopamine therapy. Kaul S, et al. **J R Soc Med** 1997 Feb;90(2):80

Heparin-induced thrombocytopenia: IgG-mediated platelet activation, platelet microparticle generation, and altered procoagulant/anticoagulant balance in the pathogenesis of thrombosis and venous limb gangrene complicating heparin-induced thrombocytopenia. Warkentin TE. **Transfus Med Rev** 1996 Oct;10(4):249–58 (41 ref.)

COMPLICATIONS

[Morphometric analysis of liver acinus in endotoxicoses caused by peritonitis and gangrene of an extremity] Shchegolev AI, et al. **Biull Eksp Biol Med** 1994 May; 117(5):547–9 **(Rus)**

CONGENITAL

Extremity gangrene in utero. Carr MM, et al. **J Hand Surg [Br]** 1996 Oct;21(5):652–5

DIAGNOSIS

[The contribution of imagery in the early diagnosis of Fournier's gangrene] Michel F, et al. **Prog Urol** 1997 Jun; 7(3):471–5 (Eng. Abstr.) **(Fre)**

ETIOLOGY

Vasculitis in systemic lupus erythematosus following intravenous immunoglobulin therapy. Hashkes PJ, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):673–5

Distal penile gangrene in a patient with chronic renal failure. Atalay AC, et al. **Int J Urol** 1997 Jul;4(4):431–2

High-dose adrenaline with low systemic vascular resistance and symmetrical peripheral gangrene. Joynt G, et al. **S Afr J Surg** 1996 May;34(2):99–101

[Special case report: Gangrene of all 4 extremities caused by disseminated intravascular coagulation in pneumococcal sepsis] Greitemann B, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov-Dec;134(6):511–6 (Eng. Abstr.) **(Ger)**

[Trousseau's syndrome in lung adenocarcinoma. The rare appearance of venous gangrene] Bellido Casado J, et al. **Arch Bronconeumol** 1997 Jun;33(6):312–4 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Six cases positive for anti-centromere antibodies with ulcer and gangrene in the extremities. Takahashi M, et al. **Br J Rheumatol** 1997 Aug;36(8):889–93

PATHOLOGY

Mammary gangrene associated with warfarin ingestion. Isenberg JS, et al. **Ann Plast Surg** 1996 Nov;37(5):553–5

RADIONUCLIDE IMAGING

Rim sign. Radionuclide imaging in a patient with acute gangrenous cholecystitis and cholelithiasis after nonspecific abdominal ultrasonography. Hayashi AK, et al. **Clin Nucl Med** 1997 Jun;22(6):388–9

Tc-99m MDP and Ga-67 scintigraphy in gangrenous muscle. Loh YH, et al. **Clin Nucl Med** 1996 Oct;21(10):799–800

SURGERY

Minor amputations on the feet after revascularization for gangrene. A consecutive series of 95 limbs. Albrektsen SB, et al. **Acta Orthop Scand** 1997 Jun;68(3):291–3

Free flap coverage of a gangrenous forefoot in a patient with Buerger's disease: a case report. Van Landuyt K, et al. **Ann Plast Surg** 1996 Feb;36(2):154–7

[A combination of perforated stomach ulcer and gangrenous appendicitis] Borodinov VP. **Vestn Khir Im I I Grek** 1996; 155(5):91 **(Rus)**

THERAPY

[Maggot therapy for gangrene and osteomyelitis] Mumcuoglu KY, et al. **Harefuah** 1997 Mar 2;132(5):323–5, 382 (Eng. Abstr.) **(Heb)**

VETERINARY

First report of field outbreaks of ergot-alkaloid toxicity in South Africa. Schneider DJ, et al. **Onderstepoort J Vet Res** 1996 Jun;63(2):97–108

GANJA see **CANNABIS**

GANSER SYNDROME see **FACTITIOUS DISORDERS**

GANYMEDE see **JUPITER**

GAP JUNCTION PROTEINS see **CONNEXINS**

GAP JUNCTIONS

see related

CONNEXINS

Relationship of cytoskeletal filaments to annular gap junction expression in human adrenal cortical tumor cells in culture. Murray SA, et al. **Exp Cell Res** 1997 Aug 1;234(2):398–404

Cell adhesion receptors and gap junctions in normal and neoplastic transformed thyrocytes. Pötter E, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:24–8 (34 ref.)

Size and selectivity of gap junction channels formed from different connexins. Veenstra RD. **J Bioenerg Biomembr** 1996 Aug;28(4):327–37 (47 ref.)

CHEMISTRY

Confocal imaging of a gap junction protein associated with the keratocytes of the human cornea. Clover GM, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):10–2

Three-dimensional structure of the gap junction connexon. Perkins G, et al. **Biophys J** 1997 Feb;72(2 Pt 1):533–44

Identification of a pore lining segment in gap junction hemichannels. Zhou XW, et al. **Biophys J** 1997 May; 72(5):1946–53

Vertebrate and invertebrate gap junctions: a common molecular basis? Finbow ME. **Cell Biol Int** 1997 Jun; 21(6):329–31 (17 ref.)

Molecular physiology of gap junction channels. Spray DC. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1038–40 (21 ref.)

The expression of the gap junctional protein Cx43 is restricted to proliferating and non differentiated normal and transformed keratinocytes. Gibson DF, et al. **Exp Dermatol** 1997 Aug;6(4):167–74

The role of gap junctional intercellular communication (GJIC) disorders in experimental and human carcinogenesis. Krutovskikh V, et al. **Histol Histopathol** 1997 Jul;12(3):761–8 (57 ref.)

Quantitative immunoconfocal analysis of human myometrial gap junction connexin43 in relation to steroid hormone concentrations at term labour. Rezapour M, et al. **Hum Reprod** 1997 Jan;12(1):159–66

Colocalization of connexin 43 and connexin 45 but absence of connexin 40 in granulosa cell gap junctions of rat ovary. Okuma A, et al. **J Reprod Fertil** 1996 Jul;107(2):255–64

DRUG EFFECTS

Progesterone, oestradiol and oxytocin and their in vitro effect on maintaining the number of gap junction plaques in human myometrium at term. Kilarski WM, et al. **Acta Physiol Scand** 1996 Aug;157(4):461–9

Reversible blockade of gap junctional communication by 2,3-butanedione monoxime in rat cardiac myocytes. Verrecchia F, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C875–85

Enhancement of gap junctional intercellular communication by dibutyryl cyclic AMP in lung epithelial cells. Banoub RW, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3715–9

Stimulation of gap junctional intercellular communication by thalidomide and thalidomide analogs in human skin fibroblasts. Nicolai S, et al. **Biochem Pharmacol** 1997 May 15;53(10):1553–7

A characterization of permolybdate and its effect on cellular tyrosine phosphorylation, gap junctional intercellular communication and phosphorylation status of the gap junction protein, connexin43. Mikalsen SO, et al. **Biochim Biophys Acta** 1997 Apr 24;1356(2):207–20

Effects of lisinopril on intercellular resistance of guinea pig ventricular myocytes. Daleau P, et al. **Can J Physiol Pharmacol** 1997 May;75(5):363–7

Lack of growth inhibition or enhancement of gap junctional intercellular communication and connexin43 expression by beta-carotene in murine lung epithelial cells in vitro. Banoub RW, et al. **Cancer Lett** 1996 Nov 12;108(1):35–40

Modulation of gap junctional intercellular communication by EGF in human kidney epithelial cells. Rivedal E, et al. **Carcinogenesis** 1996 Nov;17(11):2321–8

Biological activities of natural and synthetic carotenoids: induction of gap junctional communication and singlet oxygen quenching. Stahl W, et al. **Carcinogenesis** 1997 Jan; 18(1):89–92

Hydrogen peroxide inhibits gap junctional intercellular communication in glutathione sufficient but not glutathione deficient cells. Upham BL, et al. **Carcinogenesis** 1997 Jan; 18(1):37–42

Lindane, an inhibitor of gap junction formation, abolishes oocyte directed follicle organizing activity in vitro. Li R, et al. **Endocrinology** 1997 Oct;138(10):4477–80

Increase in gap junction conductance by an antiarrhythmic peptide. Müller A, et al. **Eur J Pharmacol** 1997 May 26; 327(1):65–72

Effect of heptanol on the short circuit currents of cornea and ciliary body demonstrates rate limiting role of heterocellular gap junctions in active ciliary body transport. Wolosin JM, et al. **Exp Eye Res** 1997 Jun; 64(6):945–52

The effects of anthracene and methylated anthracenes on gap junctional intercellular communication in rat liver epithelial cells. Upham BL, et al. **Fundam Appl Toxicol** 1996 Dec;34(2):260–4

The toxin of diarrheic shellfish poisoning, okadaic acid, increases intestinal epithelial paracellular permeability. Tripuraneni J, et al. **Gastroenterology** 1997 Jan;112(1):100–8

Vascular gap junctional communication and heptanol [letter; comment] Daniel EE. **Hypertension** 1997 Aug;30(2 Pt 1):306. Comment on: Hypertension 1996 Nov;28(5):888–93.

Vascular gap junctional communication is increased in mineralocorticoid-salt hypertension [see comments] Watts SW, et al. **Hypertension** 1996 Nov;28(5):888–93. Comment in: Hypertension 1997 Aug;30(2 Pt 1):306.

The Bacteroides fragilis toxin fragilysin disrupts the paracellular barrier of epithelial cells. Obiso RJ Jr, et al. **Infect Immun** 1997 Apr;65(4):1431–9

Studies on tumor-promoting activity of polyethylene: inhibitory activity of metabolic cooperation on polyethylene surfaces is markedly decreased by surface modification with collagen but not with RGDS peptide. Nakaoka R, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):391–7

Dimethylsulfoxide maintains intercellular communication by preserving the gap junctional protein connexin32 in primary cultured hepatocyte doublets from rats. Yoshizawa T, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):325–30

Cyclic AMP induces rapid increases in gap junction permeability and changes in the cellular distribution of connexin43. Burghardt RC, et al. **J Membr Biol** 1995 Dec; 148(3):243–53

Loss of gap junction plaques and inhibition of intercellular communication in ilimaquinone-treated BICR-M1Rk and NRK cells. Feldman PA, et al. **J Membr Biol** 1997 Feb 1;155(3):275–87

Oleic acid inhibits gap junction permeability and increases glucose uptake in cultured rat astrocytes. Lavado E, et al. **J Neurochem** 1997 Aug;69(2):721–8

Inhibition of nitric oxide-induced vasodilation by gap junction inhibitors: a potential role for a cGMP-independent nitric oxide pathway. Javid PJ, et al. **J Vasc Res** 1996 Sep-Oct;33(5):395–404

Triazine derivatives inhibit rat hepatocarcinogenesis but do not enhance gap junctional intercellular communication. Hori T, et al. **Jpn J Cancer Res** 1997 Jan;88(1):12–7

TNF alpha inhibits Schwann cell proliferation, connexin46 expression, and gap junctional communication. Chandross

KJ, et al. **Mol Cell Neurosci** 1996 Jun;7(6):479–500

Actions of the antiarrhythmic peptide AAP10 on intercellular coupling. Müller A, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 Jul; 356(1):76–82

Nitric oxide–stimulated increase in intracellular cGMP modulates gap junction coupling in rat neocortex. Rörig B, et al. **Neuroreport** 1996 Jan 31;7(2):569–72

Lack of tumor–promoting effects of flavonoids: studies on rat liver preneoplastic foci and on in vivo and in vitro gap junctional intercellular communication. Chaumontet C, et al. **Nutr Cancer** 1996;26(3):251–63

Effect of a tobacco–related nitrosamine on intercellular communication in human urothelial cells: a possible factor in smoking–related bladder carcinogenesis. Lyng FM, et al. **Oncol Res** 1996;8(9):371–8

Reversible inhibition of gap junctional communication by tamoxifen in cultured cardiac myocytes. Verrecchia F, et al. **Pflugers Arch** 1997 May;434(1):113–6

Gamma linolenic acid regulates gap junction communication in endothelial cells and their interaction with tumour cells. Jiang WG, et al.
Prostaglandins Leukot Essent Fatty Acids 1997 Apr; 56(4):307–16

Quinine, intracellular pH and modulation of hemi–gap junctions in catfish horizontal cells. Dixon DB, et al.
Vision Res 1996 Dec;36(24):3925–31

GENETICS

Reversible intercellular coupling by regulated expression of a gap junction channel gene. Fishman GI, et al.
Cell Adhes Commun 1995 Nov;3(4):353–65

Heart and neural tube defects in transgenic mice overexpressing the Cx43 gap junction gene. Ewart JL, et al. **Development** 1997 Apr;124(7):1281–92

METABOLISM

4–oxo–retinoic acid is generated from its precursor canthaxanthin and enhances gap junctional communication in 10T1/2 cells. Stahl W, et al. **Adv Exp Med Biol** 1996; 387:121–8

Human connexin 43 gap junction channel gating: evidence for mode shifts and/or heterogeneity. Brink PR, et al.
Am J Physiol 1996 Jul;271(1 Pt 1):C321–31

Asymmetric voltage dependence of embryonic cardiac gap junction channels. Chen YH, et al. **Am J Physiol** 1996 Jan; 270(1 Pt 1):C276–85

Gap junctions in human umbilical cord endothelial cells contain multiple connexins. Van Rijen H, et al.
Am J Physiol 1997 Jan;272(1 Pt 1):C117–30

Connexin 32 of gap junctions contains two cytoplasmic calmodulin–binding domains. Török K, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):479–83

Lipid differentiation in MP26 junction enriched membranes of bovine lens fiber cells. Baumann CG, et al.
Biochim Biophys Acta 1996 Sep 27;1303(2):145–53

Voltage sensitivity of gap junction currents in rat osteoblast–like cells. Schirrmacher K, et al.
Biochim Biophys Acta 1997 Jul 5;1327(1):89–96

Regulated assembly of connexin33 and connexin43 into rat Sertoli cell gap junctions. Tan IP, et al. **Biol Reprod** 1996 Jun;54(6):1300–10

Effects of calcium on gap junctions between osteoblast–like cells in culture. Schirrmacher K, et al. **Calcif Tissue Int** 1996 Oct;59(4):259–64

Gap junction endocytosis and lysosomal degradation of connexin43–P2 in WB–F344 rat liver epithelial cells treated with DDT and lindane. Guan X, et al. **Carcinogenesis** 1996 Sep;17(9):1791–8

Connexin expression and gap junctions in the mammary gland. Monaghan P, et al. **Cell Biol Int** 1996 Feb; 20(2):121–5 (29 ref.)

Dye spread through gap junctions in the corneal epithelium of the rabbit. Williams KK, et al. **Curr Eye Res** 1997 May; 16(5):445–52

Gap junction formation between cultured embryonic lens cells is inhibited by antibody to N–cadherin. Frenzel EM, et al. **Dev Biol** 1996 Oct 10;179(1):1–16

Cell–free synthesis and assembly of connexins into functional gap junction membrane channels. Falk MM, et al.
EMBO J 1997 May 15;16(10):2703–16

The gap–junction protein connexin 56 is phosphorylated in the intracellular loop and the carboxy–terminal region. Berthoud VM, et al. **Eur J Biochem** 1997 Feb 15; 244(1):89–97

A second alternative transcript of the gap junction gene connexin32 is expressed in murine Schwann cells and modulated in injured sciatic nerve. Söhl G, et al.
Eur J Cell Biol 1996 Mar;69(3):267–75

Propagation of mechanically induced intercellular calcium waves via gap junctions and ATP receptors in rat liver epithelial cells. Frame MK, et al. **Exp Cell Res** 1997 Feb 1;230(2):197–207

Induction of phosphotyrosine in the gap junction protein, connexin43. Mikalsen SO, et al. **FEBS Lett** 1997 Jan 20; 401(2–3):271–5

Gap junctions play a role in the 'bystander effect' of the herpes simplex virus thymidine kinase/ganciclovir system in vitro. Elshami AA, et al. **Gene Ther** 1996 Jan;3(1):85–92

Gap junctions equalize intracellular Na+ concentration in astrocytes. Rose CR, et al. **Glia** 1997 Aug;20(4):299–307

Expression pattern of different gap junction connexins is related to embryo implantation. Grümmer R, et al.
Int J Dev Biol 1996 Feb;40(1):361–7 (35 ref.)

Lack of biocytin transfer at gap junctions in the chicken vestibular nuclei. Arabshahi A, et al.
Int J Dev Neurosci 1997 Jun;15(3):343–52

Transport of glucose across the blood–tissue barriers. Takata K, et al. **Int Rev Cytol** 1997;172:1–53 (320 ref.)

Connexin distribution in the rabbit and rat ciliary body. A case for heterotypic epithelial gap junctions. Wolosin JM, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):341–8

Porcine aortic endothelial gap junctions: identification and permeation by caged InsP3. Carter TD, et al.
J Cell Sci 1996 Jul;109 (Pt 7):1765–73

Dynamics of connexins, E–cadherin and alpha–catenin on cell membranes during gap junction formation. Fujimoto K, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):311–22

A calbindin–immunoreactive cone bipolar cell type in the rabbit retina. Massey SC, et al. **J Comp Neurol** 1996 Feb 26;366(1):15–33

Monovalent cation permeation through the connexin40 gap junction channel. Cs, Rb, K, Na, Li, TEA, TMA, TBA, and effects of anions Br, Cl, F, acetate, aspartate, glutamate, and NO3. Beblo DA, et al. **J Gen Physiol** 1997 Apr; 109(4):509–22

Monovalent ion selectivity sequences of the rat connexin43 gap junction channel. Wang HZ, et al. **J Gen Physiol** 1997 Apr;109(4):491–507

Gap junction localization and connexin expression in cytochemically identified endothelial cells of arterial tissue. Yeh HI, et al. **J Histochem Cytochem** 1997 Apr; 45(4):539–50

Effect of antipeptide antibodies directed against three domains of connexin43 on the gap junctional permeability of cultured heart cells. Bastide B, et al. **J Membr Biol** 1996 Apr;150(3):243–53

Modulation of cardiac gap junctions: the mode of action of arachidonic acid. Schmilinsky–Fluri G, et al.
J Mol Cell Cardiol 1997 Jun;29(6):1703–13

Induction of nitric oxide synthase inhibits gap junction permeability in cultured rat astrocytes. Bolaños JP, et al. **J Neurochem** 1996 May;66(5):2091–9

Differential expression of connexins during neocortical development and neuronal circuit formation. Nadarajah B, et al. **J Neurosci** 1997 May 1;17(9):3096–111

Comparison of lucifer yellow leakage and cell–to–cell transfer following intracellular injection in normal and antisense Novikoff cells under treatment with low extracellular Ca2+. Liu TF, et al.
Methods Find Exp Clin Pharmacol 1996 Oct;18(8):493–7

Perturbation in connexin 43 and connexin 26 gap–junction expression in mouse skin hyperplasia and neoplasia. Sawey MJ, et al. **Mol Carcinog** 1996 Oct;17(2):49–61

PKC phosphorylation disrupts gap junctional communication at G0/S phase in clone 9 cells. Koo SK, et al.
Mol Cell Biochem 1997 Feb;167(1–2):41–9

Human granulosa cells in culture exhibit functional cyclic AMP–regulated gap junctions. Furger C, et al.
Mol Hum Reprod 1996 Aug;2(8):541–8

Evidence for the co–localization of another connexin with connexin–43 at astrocytic gap junctions in rat brain. Nagy JI, et al. **Neuroscience** 1997 May;78(2):533–48

Connexin–43 in rat spinal cord: localization in astrocytes and identification of heterotypic astro–oligodendrocytic gap junctions. Ochalski PA, et al. **Neuroscience** 1997 Feb; 76(3):931–45

Cortical afferents modulate striatal gap junction permeability via nitric oxide. O'Donnell P, et al. **Neuroscience** 1997 Jan; 76(1):1–5

A chimeric connexin forming gap junction hemichannels. Pfahnl A, et al. **Pflugers Arch** 1997 Apr;433(6):773–9

Chimeric evidence for a role of the connexin cytoplasmic loop in gap junction channel gating. Wang X, et al.
Pflugers Arch 1996 Apr;431(6):844–52

Gap junctional intercellular communication of bovine luteal cells from several stages of the estrous cycle: effects of prostaglandin F2 alpha, protein kinase C and calcium. Grazul–Bilska AT, et al. **Prostaglandins** 1996 Oct; 52(4):285–302

PHYSIOLOGY

Effects of hypoxia on the intercellular channel activity of cultured glomus cells. Abudara V, et al.
Adv Exp Med Biol 1996;410:151–8 (18 ref.)

Reflections on the carotid nerve sensory discharge and coupling between glomus cells. Eyzaguirre C, et al.
Adv Exp Med Biol 1996;410:159–67 (26 ref.)

cAMP promotes gap junctional coupling in T84 cells. Chanson M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C533–9

Expression of functional gap junctions in cultured pulmonary alveolar epithelial cells. Lee YC, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1105–14

Gap junctional units are functionally expressed before first cleavage in the early ascidian embryo. Tosti E.
Am J Physiol 1997 May;272(5 Pt 1):C1445–9

Connexin 32/38 chimeras suggest a role for the second half of inner loop in gap junction gating by low pH. Wang XG, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1743–9

Electrical signal transmission and gap junction regulation in a bone cell network: a cable model for an osteon. Zhang D, et al. **Ann Biomed Eng** 1997 Mar–Apr;25(2):357–74

Intercellular junctions in the endothelium and the control of vascular permeability. Dejana E, et al.
Ann N Y Acad Sci 1997 Apr 15;811:36–43; discussion 43–4 (42 ref.)

Gap junctional intercellular communication of bovine luteal cells from several stages of the estrous cycle: effects of cyclic adenosine 3',5'–monophosphate. Grazul–Bilska AT, et al. **Biol Reprod** 1996 Mar;54(3):538–45

Rat endometrial stromal cells express the gap junction genes connexins 26 and 43 and form functional gap junctions during in vitro decidualization. Orlando–Mathur CE, et al. **Biol Reprod** 1996 Apr;54(4):905–13

Gap junction regulation during preterm labor in the rat: multiple effects of the antiprogesterone RU486. Risek B, et al. **Biol Reprod** 1996 Sep;55(3):525–35

Species–specific voltage–gating properties of connexin–45 junctions expressed in Xenopus oocytes. Barrio LC, et al.
Biophys J 1997 Aug;73(2):757–69

Two distinct gating mechanisms in gap junction channels: CO2–sensitive and voltage–sensitive. Bukauskas FF, et al.
Biophys J 1997 May;72(5):2137–42

Xenopus connexin38 forms hemi–gap–junctional channels in the nonjunctional plasma membrane of Xenopus oocytes. Ebihara L. **Biophys J** 1996 Aug;71(2):742–8

Voltage–clamp studies of gap junctions between uterine muscle cells during term and preterm labor. Miyoshi H, et al. **Biophys J** 1996 Sep;71(3):1324–34

Positive charges of the initial C–terminus domain of Cx32 inhibit gap junction gating sensitivity to CO2. Wang XG, et al. **Biophys J** 1997 Aug;73(2):798–806

Topographically induced bone formation in vitro: implications for bone implants and bone grafts. Gray C, et al. **Bone** 1996 Feb;18(2):115–23

Transient involvement of gap junctional communication before fusion of newborn rat myoblasts. Constantin B, et al. **C R Acad Sci III** 1997 Jan;320(1):35–40

Elimination of intercellular junctional communication requires lower Ras(leu61) levels than stimulation of anchorage–independent proliferation. Brownell HL, et al.
Cancer Detect Prev 1997;21(4):289–94

Pulse treatment with the tumor promoter TPA delays the onset of desensitization response and prolongs the inhibitory effect on gap junctional intercellular communication of a rat liver epithelial cell line WB F–344. Madhukar BV, et al. **Cancer Lett** 1996 Aug 23; 106(1):117–23

Gap junctions promote the bystander effect of herpes simplex virus thymidine kinase in vivo. Dilber MS, et al.
Cancer Res 1997 Apr 15;57(8):1523–8

Altered gap junctional intercellular communication in neoplastic rat esophageal epithelial cells. Garber SA, et al. **Carcinogenesis** 1997 Jun;18(6):1149–53

Changes in gap junctional intercellular communication in mouse skin carcinogenesis. Holden PR, et al.
Carcinogenesis 1997 Jan;18(1):15–21

Differences in the calcium–mediated regulation of gap junctional intercellular communication between a cell line consisting of initiated cells and a carcinoma–derived cell line. Jansen LA, et al. **Carcinogenesis** 1996 Nov; 17(11):2311–9

Inhibition of gap junctional intercellular communication by barbiturates in long–term primary cultured rat hepatocytes is correlated with liver tumour promoting activity. Ren P, et al. **Carcinogenesis** 1996 Oct;17(10):2119–24

Modulation of gap junctional intercellular communication by EGF in human kidney epithelial cells. Rivedal E, et al. **Carcinogenesis** 1996 Nov;17(11):2321–8

Chaos in the Hall of Mirrors [comment] Weber KT.
Cardiovasc Res 1995 Sep;30(3):336. Comment on: Cardiovasc Res 1995 Sep;30(3):337–44.

Vertebrate and invertebrate gap junctions: a common molecular basis? Finbow ME. **Cell Biol Int** 1997 Jun; 21(6):329–31 (17 ref.)

Gap junctions mediate intercellular calcium signalling in cultured articular chondrocytes. D'Andrea P, et al.
Cell Calcium 1996 Nov;20(5):389–97

Increased connexin–43 and gap junctional communication correlate with altered phenotypic characteristics of cells overexpressing the receptor for hyaluronic acid–mediated motility. Nagy JI, et al. **Cell Growth Differ** 1996 Jun; 7(6):745–51

Gap junctions in vascular tissues. Evaluating the role of intercellular communication in the modulation of vasomotor tone. Christ GJ, et al. **Circ Res** 1996 Oct; 79(4):631–46 (154 ref.)

Conductances and selective permeability of connexin43 gap junction channels examined in neonatal rat heart cells. Valiunas V, et al. **Circ Res** 1997 May;80(5):708–19

Characterization of gap junction channels in adult rabbit atrial and ventricular myocardium. Verheule S, et al.
Circ Res 1997 May;80(5):673–81

Triggered propagated contractions in rat cardiac trabeculae. Inhibition by octanol and heptanol. Zhang YM, et al.
Circ Res 1996 Dec;79(6):1077–85

Gap junction channel gating and permselectivity: their roles in co–ordinated tissue function. Brink PR.
Clin Exp Pharmacol Physiol 1996 Dec;23(12):1041–6 (38 ref.)

Where are the gates in gap junction channels? Dahl G.
Clin Exp Pharmacol Physiol 1996 Dec;23(12):1047–52 (51 ref.)

Gap junction involvement in secretion: the pancreas

experience. Meda P. **Clin Exp Pharmacol Physiol** 1996 Dec; 23(12):1053–7 (42 ref.)
Molecular physiology of gap junction channels. Spray DC. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1038–40 (21 ref.)
Gap junction and tissue invasion: a comparison of tumorigenesis and pregnancy. Winterhager E, et al. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1058–61
Gap junctions: getting the message through. Nicholson SM, et al. **Curr Biol** 1997 Jun 1;7(6):R340–4 (25 ref.)
Blocking gap junctional intercellular communication in myoblasts inhibits myogenin and MRF4 expression. Proulx A, et al. **Dev Genet** 1997;20(2):133–44
Involvement of nerve growth factor in the ovulatory cascade: trkA receptor activation inhibits gap junctional communication between thecal cells. Mayerhofer A, et al. **Endocrinology** 1996 Dec;137(12):5662–70
Cell–to–cell communication in the anterior pituitary: evidence for gap junction–mediated exchanges between endocrine cells and folliculostellate cells. Morand I, et al. **Endocrinology** 1996 Aug;137(8):3356–67
Gap junction–mediated cell–to–cell communication in endocrine glands—molecular and functional aspects: a review. Munari–Silem Y, et al. **Eur J Endocrinol** 1996 Sep; 135(3):251–64 (149 ref.)
Direct cell/cell communication in the lymphoid germinal center: connexin43 gap junctions functionally couple follicular dendritic cells to each other and to B lymphocytes. Krenacs T, et al. **Eur J Immunol** 1997 Jun; 27(6):1489–97
Connexins, gap junctions and cell–cell signalling in the nervous system. Bruzzone R, et al. **Eur J Neurosci** 1997 Jan;9(1):1–6 (24 ref.)
Serotonin regulates gap junction coupling in the developing rat somatosensory cortex. Rörig B, et al. **Eur J Neurosci** 1996 Aug;8(8):1685–95
Radiation response of connexin43–transfected cells in relation to the "contact effect". Luo C, et al. **Exp Cell Res** 1997 Aug 1;234(2):225–32
The bystander effect exerted by tumor cells expressing the herpes simplex virus thymidine kinase (HSVtk) gene is dependent on connexin expression and cell communication via gap junctions. Vrionis FD, et al. **Gene Ther** 1997 Jun; 4(6):577–85
Metabolic trafficking through astrocytic gap junctions. Giaume C, et al. **Glia** 1997 Sep;21(1):114–23 (89 ref.)
Endothelin–1 regulates glucose utilization in cultured astrocytes by controlling intercellular communication through gap junctions. Tabernero A, et al. **Glia** 1996 Mar; 16(3):187–95
Asymmetric gap junctional coupling between glial cells in the rat retina. Zahs KR, et al. **Glia** 1997 May;20(1):10–22
The fine structure of spiral ligament cells relates to ion return to the stria and varies with place–frequency. Spicer SS, et al. **Hear Res** 1996 Oct;100(1–2):80–100
Gap junctions and growth control in liver regeneration and in isolated rat hepatocytes. Fladmark KE, et al. **Hepatology** 1997 Apr;25(4):847–55
Intercellular gap junctional communication is required for an optimal metabolic response of the functional units of liver. Sáez JC. **Hepatology** 1997 Mar;25(3):775–6
Gap junction channels: new roles in disease. Donaldson P, et al. **Histol Histopathol** 1997 Jan;12(1):219–31 (92 ref.)
The role of gap junctional intercellular communication (GJIC) disorders in experimental and human carcinogenesis. Krutovskikh V, et al. **Histol Histopathol** 1997 Jul;12(3):761–8 (57 ref.)
Vascular gap junctional communication and heptanol [letter; comment] Daniel EE. **Hypertension** 1997 Aug;30(2 Pt 1):306. Comment on: Hypertension 1996 Nov;28(5):888–93.
Gap junctions in excitable cells. Brink PR, et al. **J Bioenerg Biomembr** 1996 Aug;28(4):351–8 (46 ref.)
The life cycle of a connexin: gap junction formation, removal, and degradation. Laird DW. **J Bioenerg Biomembr** 1996 Aug;28(4):311–8 (54 ref.)
The role of gap junction membrane channels in development. Lo CW. **J Bioenerg Biomembr** 1996 Aug;28(4):379–85 (50 ref.)
The role of gap junction membrane channels in secretion and hormonal action. Meda P. **J Bioenerg Biomembr** 1996 Aug;28(4):369–77 (54 ref.)
Molecular organization of gap junction membrane channels. Sosinsky GE. **J Bioenerg Biomembr** 1996 Aug; 28(4):297–309 (89 ref.)
Multiple connexin proteins in single intercellular channels: connexin compatibility and functional consequences. White TW, et al. **J Bioenerg Biomembr** 1996 Aug;28(4):339–50 (87 ref.)
Influence of alpha–adrenergic–receptor activation on junctional conductance in heart cells: interaction with beta–adrenergic adrenergic agonists. De Mello WC. **J Cardiovasc Pharmacol** 1997 Feb;29(2):273–7
Fibroblast growth factor 4 directs gap junction expression in the mesenchyme of the vertebrate limb Bud. Makarenkova H, et al. **J Cell Biol** 1997 Sep 8; 138(5):1125–37
Normal development of preimplantation mouse embryos deficient in gap junctional coupling. De Sousa PA, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1751–8
Synthesis and assembly of human beta 1 gap junctions in BHK cells by DNA transfection with the human beta 1 cDNA. Kumar NM, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3725–34
An inhibition of gap–junctional communication by cadherins. Wang Y, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):301–9
Differential regulation of gap junctions by proinflammatory mediators in vitro. Hu J, et al. **J Clin Invest** 1997 May 15;99(10):2312–6
Restoration of gap junctions in the regenerative process of ethanol–induced gastric mucosal injury. Endo K, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):589–94
Gap junctions in regenerating gastric mucosa. Tarnawski A, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):602–3
Passover eliminates gap junctional communication between neurons of the giant fiber system in Drosophila. off Sun YA, et al. **J Neurobiol** 1996 Jul;30(3):340–8
Gap junctions as electrical synapses. Bennett MV. **J Neurocytol** 1997 Jun;26(6):349–66 (98 ref.)
Association between dendritic lamellar bodies and complex spike synchrony in the olivocerebellar system. De Zeeuw CI, et al. **J Neurophysiol** 1997 Apr;77(4):1747–58
Mechanism involved in initiation and propagation of receptor–induced intercellular calcium signaling in cultured rat astrocytes. Venance L, et al. **J Neurosci** 1997 Mar 15; 17(6):1981–92
Reduction of connexin43 expression and dye–coupling during neuronal differentiation of human NTera2/clone D1 cells. Bani–Yaghoub M, et al. **J Neurosci Res** 1997 Jul 1; 49(1):19–31
Altered gap junctional communication, intercellular signaling, and growth in cultured astrocytes deficient in connexin43. Naus CC, et al. **J Neurosci Res** 1997 Sep 1; 49(5):528–40
Oscillation of gap junction electrical coupling in the mouse pancreatic islets of Langerhans. Andreu E, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):753–61
Biophysical properties of heterotypic gap junctions newly formed between two types of insect cells. Bukauskas FF, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):701–13
Ultrastructural and immunohistochemical studies of intralobular fibroblasts in human submandibular gland: the recognition of a 'CD34 positive reticular network' connected by gap junctions. Yamazaki K, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):471–83
How the neighborhood coherence principle (NCP) can give rise to tissue homeostasis: a cellular automaton approach. Phipps M, et al. **J Theor Biol** 1997 Apr 21;185(4):475–87
Regulation of gap junctional communication during human trophoblast differentiation. Cronier L, et al. **Microsc Res Tech** 1997 Jul 1–15;38(1–2):21–8
Morphology favors an endothelial cell pathway for longitudinal conduction within arterioles. Haas TL, et al. **Microvasc Res** 1997 Mar;53(2):113–20
Incompatibility of connexin 40 and 43 Hemichannels in gap junctions between mammalian cells is determined by intracellular domains. Haubrich S, et al. **Mol Biol Cell** 1996 Dec;7(12):1995–2006
Regulation of gap junction coupling in the developing neocortex. Rörig B, et al. **Mol Neurobiol** 1996 Jun; 12(3):225–49 (162 ref.)
Role of disrupted gap junctional intercellular communication in detection and characterization of carcinogens. Yamasaki H. **Mutat Res** 1996 Sep;365(1–3):91–105 (107 ref.)
The behavior of cells during the evaluation of gap junctional intercellular communication by metabolic cooperation assay. Vítek JA. **Neoplasma** 1996;43(2):119–23
Upregulation of gap junctional intercellular communication in immortalized gonadotropin–releasing hormone neurons by stimulation of the cyclic AMP pathway. Matesic DF, et al. **Neuroendocrinology** 1996 Oct;64(4):286–97
Fast Na+ spike generation in dendrites of guinea–pig substantia nigra pars compacta neurons. Nedergaard S, et al. **Neuroscience** 1996 Jul;73(2):381–96
Genes, junctions, and disease at cell biology meeting [news] Pennisi E. **Science** 1996 Dec 20;274(5295):2008–9
Control of gap–junctional communication in astrocytic networks. Giaume C, et al. **Trends Neurosci** 1996 Aug; 19(8):319–25 (74 ref.)
Light–induced modulation of coupling between AII amacrine cells in the rabbit retina. Bloomfield SA, et al. **Vis Neurosci** 1997 May–Jun;14(3):565–76
Gap junction channel gating at bass retinal electrical synapses. Lu C, et al. **Vis Neurosci** 1996 Nov–Dec; 13(6):1049–57
The AII amacrine network: coupling can increase correlated activity. Vardi N, et al. **Vision Res** 1996 Dec;36(23):3743–57
The "syncytial tissue triad": a model for understanding how gap junctions participate in the local control of penile erection. Christ GJ. **World J Urol** 1997;15(1):36–44 (49 ref.)
[Effects of curcumin derivatives on the GJIC of normal and tumor cells] Li Y, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):111–5 (Eng. Abstr.) **(Chi)**
[Communicating junctions of glial cells in the central nervous system] Giaume C. **Ann Endocrinol (Paris)** 1996; 57(6):487–91 (39 ref.) (Eng. Abstr.) **(Fre)**
[Role of intercellular communication via gap junctions in insulin secretion] Meda P. **Ann Endocrinol (Paris)** 1996; 57(6):481–3 (15 ref.) (Eng. Abstr.) **(Fre)**
[Gap junctions in the thyroid gland: distribution, regulation, function] Munari–Silem Y. **Ann Endocrinol (Paris)** 1996; 57(6):484–6 (8 ref.) (Eng. Abstr.) **(Fre)**
[Introduction to the structure and functions of junction communications or gap junctions] Rousset B. **Ann Endocrinol (Paris)** 1996;57(6):476–80 (6 ref.) (Eng. Abstr.) **(Fre)**

ULTRASTRUCTURE

Gap junctions between mast cells and fibroblasts in the developing avian eye. Oliani SM, et al. **Acta Anat (Basel)** 1995;154(4):267–71
Ultrastructural recognition of gap junctions between melanocytes in human vestibular organs by tannic acid containing fixative preparation and freeze–fracture technique. Masuda M, et al. **Anat Rec** 1996 Sep;246(1):8–14
The inter–Sertoli cell tight junctions in germ cell–free seminiferous tubules from prenatally irradiated rats: a freeze–fracture study. Ribeiro AF, et al. **Cell Biol Int** 1996 Jul;20(7):513–22
Dissociated spatial patterning of gap junctions and cell adhesion junctions during postnatal differentiation of ventricular myocardium. Angst BD, et al. **Circ Res** 1997 Jan;80(1):88–94
Disturbed connexin43 gap junction distribution correlates with the location of reentrant circuits in the epicardial border zone of healing canine infarcts that cause ventricular tachycardia. Peters NS, et al. **Circulation** 1997 Feb 18; 95(4):988–96
Dispersed and aggregated gap junction channels identified by immunogold labeling of freeze–fractured membranes. Hülser DF, et al. **Exp Cell Res** 1997 Jun 15;233(2):240–51
Gap junctions are found between iris sphincter smooth muscle cells but not in the ciliary muscle of human and monkey eyes. Samuel U, et al. **Exp Eye Res** 1996 Aug; 63(2):187–92
Tendon cells in vivo form a three dimensional network of cell processes linked by gap junctions [published erratum appears in J Anat 1997 Apr;190(Pt 3):477–8] McNeilly CM, et al. **J Anat** 1996 Dec;189 (Pt 3):593–600
Structural determinants of slow conduction in the canine sinus node. Saffitz JE, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):738–44
Gap junctions in the adult cerebral cortex: regional differences in their distribution and cellular expression of connexins. Nadarajah B, et al. **J Comp Neurol** 1996 Dec 9;376(2):326–42
Connexin43 and astrocytic gap junctions in the rat spinal cord after acute compression injury. Theriault E, et al. **J Comp Neurol** 1997 Jun 2;382(2):199–214
Ultrastructural and immunohistochemical studies of intralobular fibroblasts in human submandibular gland: the recognition of a 'CD34 positive reticular network' connected by gap junctions. Yamazaki K, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):471–83
Cells and cell junctions in the muscle coat of the bladder. Gabella G. **Scand J Urol Nephrol Suppl** 1997;184:3–6 (11 ref.)
A–band movement and junctional gap dissociation during caffeine–induced contracture of skeletal muscle fibers. Yoshioka T, et al. **Tokai J Exp Clin Med** 1995 Jul; 20(2):99–108
Gap junctional vesicles in intimal smooth muscle cells in human atherosclerotic arteries [letter] Bobryshev YV, et al. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):93–4
[Introduction to the structure and functions of junction communications or gap junctions] Rousset B. **Ann Endocrinol (Paris)** 1996;57(6):476–80 (6 ref.) (Eng. Abstr.) **(Fre)**

GARBAGE

Research and the problems of litter and medical wastes on the UK coastline. Philipp R, et al. **Br J Clin Pract** 1997 Apr–May;51(3):164–8 (54 ref.)
Examination of soils from residential garbage in Betul, India, for fungi by the keratin baiting technique. Sharma B, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):139–45

GARDNER SYNDROME

COMPLICATIONS

Dermacase. Gardner's syndrome. **Can Fam Physician** 1997 Jun;43:1061, 1067
Jejunal myoepithelial hamartoma associated with Gardner's syndrome: a case report. Hizawa K, et al. **Endoscopy** 1996 Oct;28(8):727
Adenoma of the common human bile duct in Gardner's syndrome may cause relapsing acute pancreatitis. Futami H, et al. **J Gastroenterol** 1997 Aug;32(4):558–61
Malignant mesenchymoma arising from the prostate in Gardner's syndrome. Ohta S, et al. **Urol Int** 1996; 56(4):256–8
Desmoid tumor–ureteral fistula in Gardner's syndrome. Richard HM 3rd, et al. **Urology** 1997 Jan;49(1):135–8

DIAGNOSIS

Multiple, juxtasutural, cranial hyperostoses and cardiac tumor: a new hamartomatous syndrome? Nishimura G, et al. **Am J Med Genet** 1997 Aug 8;71(2):167–71
Dermacase. Gardner's syndrome. **Can Fam Physician** 1997 Jun;43:1061, 1067

DRUG THERAPY

Regression of gastric polyps in Gardner's syndrome with use

of indomethacin suppositories: a case report. Hirata K, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):918–20

GENETICS

Association of extracolonic manifestations of familial adenomatous polyposis with acetylation phenotype in a large FAP kindred. Scott RJ, et al. **Eur J Hum Genet** 1997 Jan–Feb;5(1):43–9

Gardner's syndrome in several family members. Seruga M, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1088–91

Thyroid neoplasia and familial adenomatous polyposis/Gardner's syndrome. Hizawa K, et al. **J Gastroenterol** 1997 Apr;32(2):196–9

[Gardner syndrome and thyroid gland carcinoma (editorial; comment)] Möslein G. **Langenbecks Arch Chir** 1997; 382(2):59–60. Comment on: Langenbecks Arch Chir 1997 ;382(2):61–3. **(Ger)**

[Gardner syndrome and thyroid gland carcinoma (see comments)] Sailer M, et al. **Langenbecks Arch Chir** 1997; 382(2):61–3 (Eng. Abstr.). Comment in: Langenbecks Arch Chir 1997 ;382(2):59–60. **(Ger)**

PATHOLOGY

Nonpolypoid adenomas of the duodenum in patients with familial adenomatous polyposis (Gardner's syndrome). Iida M, et al. **Gastrointest Endosc** 1996 Sep;44(3):305–8

SURGERY

Living–related small–bowel transplantation: donor evaluation and outcome. Tesi R, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):686–7

GARDNERELLA VAGINALIS

Defining bacterial vaginosis: to BV or not to BV, that is the question [editorial] Hay PE, et al. **Int J STD AIDS** 1996 Jul;7(4):233–5 (14 ref.)

Pathogenic potential of Gardnerella vaginalis on the female urogenital system. Chaudhuri M, et al. **J Indian Med Assoc** 1996 Jan;94(1):11–3, 16

Reactive arthritis due to Gardnerella vaginalis. A case–report [letter] François S, et al. **Rev Rhum Engl Ed** 1997 Feb; 64(2):138–9

CLASSIFICATION

Genotypic differentiation of Gardnerella vaginalis by amplified ribosomal DNA restriction analysis (ARDRA). Ingianni A, et al. **FEMS Immunol Med Microbiol** 1997 May; 18(1):61–6

Biotypes of Gardnerella vaginalis isolated from urinary tract. González–Pedraza Avilés A, et al. **Rev Latinoam Microbiol** 1996 Apr–Jun;38(2):75–80

DRUG EFFECTS

In–vitro activity of purpuromycin and MDL 63,604 against microorganisms that cause vaginitis and vaginosis. Goldstein BP, et al. **J Antimicrob Chemother** 1995 Dec; 36(6):1061–5

Semisynthetic derivatives of purpuromycin as potential topical agents for vaginal infections. Trani A, et al. **J Med Chem** 1997 Mar 14;40(6):967–71

GENETICS

Genotypic differentiation of Gardnerella vaginalis by amplified ribosomal DNA restriction analysis (ARDRA). Ingianni A, et al. **FEMS Immunol Med Microbiol** 1997 May; 18(1):61–6

GROWTH & DEVELOPMENT

Growth inhibition of metronidazole–susceptible and metronidazole–resistant strains of Gardnerella vaginalis by Lactobacilli in vitro. McLean NW, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1089–92

Evidence for a commensal, symbiotic relationship between Gardnerella vaginalis and Prevotella bivia involving ammonia: potential significance for bacterial vaginosis. Pybus V, et al. **J Infect Dis** 1997 Feb;175(2):406–13

ISOLATION & PURIFICATION

Garderella vaginalis bacteremia in an adult male [letter] Bastida Vilá MT, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):400–1

Balanitis and balanoposthitis: a review [letter; comment] Abdennader S, et al. **Genitourin Med** 1996 Dec;72(6):453–4 . Comment on: Genitourin Med 1996 Jun;72(3):155–9.

[Clinical and microbiological evaluation of bacterial vaginosis in women in a hospital from Rio Cuarto, Argentina] Barberis IL, et al. **Enferm Infecc Microbiol Clin** 1996 Dec; 14(10):611–3 (Eng. Abstr.) **(Spa)**

[Gardnerella vaginalis in reports of cervico–vaginal cytology] Monterrosa–Castro A, et al. **Gac Med Mex** 1996 Mar–Apr; 132(2):119–25 (Eng. Abstr.) **(Spa)**

METABOLISM

Specific immune response against Gardnerella vaginalis hemolysin in patients with bacterial vaginosis. Cauci S, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1601–5

Evidence for a commensal, symbiotic relationship between Gardnerella vaginalis and Prevotella bivia involving ammonia: potential significance for bacterial vaginosis. Pybus V, et al. **J Infect Dis** 1997 Feb;175(2):406–13

PATHOGENICITY

[Gardnerella vaginalis in a newborn infant: contamination or infection, apropos of a case (letter)] Rivière H, et al. **Ann Biol Clin (Paris)** 1996;54(8–9):333–4 **(Fre)**

ULTRASTRUCTURE

Ultrastructural characteristics of Gardnerella vaginalis infection in the heterosexual couple. Villegas H, et al. **Arch Androl** 1997 Sep–Oct;39(2):147–53

GARDONA see **TETRACHLORVINPHOS**

GARGOYLISM see **MUCOPOLYSACCHARIDOSIS I**

GARLIC

Effect of garlic and fish–oil supplementation on serum lipid and lipoprotein concentrations in hypercholesterolemic men [see comments] Adler AJ, et al. **Am J Clin Nutr** 1997 Feb;65(2):445–50. Comment in: Am J Clin Nutr 1997 Feb;65(2):561–2.

Efficacy of multiple dietary therapies in reducing cardiovascular disease risk factors [editorial; comment] Kris–Etherton PM, et al. **Am J Clin Nutr** 1997 Feb; 65(2):560–1. Comment on: Am J Clin Nutr 1997 Feb;65(2):445–50.

Effects of garlic thioallyl derivatives on growth, glutathione concentration, and polyamine formation of human prostate carcinoma cells in culture [see comments] Pinto JT, et al. **Am J Clin Nutr** 1997 Aug;66(2):398–405. Comment in: Am J Clin Nutr 1997 Aug;66(2):425–6.

A double–blind crossover study in moderately hypercholesterolemic men that compared the effect of aged garlic extract and placebo administration on blood lipids. Steiner M, et al. **Am J Clin Nutr** 1996 Dec;64(6):866–70

Glutathione S–transferases of female A/J mouse liver and forestomach and their differential induction by anti–carcinogenic organosulfides from garlic. Hu X, et al. **Arch Biochem Biophys** 1996 Dec 15;336(2):199–214

Urinary excretion of N–acetyl–S–allyl–L–cysteine upon garlic consumption by human volunteers. de Rooij BM, et al. **Arch Toxicol** 1996;70(10):635–9

The effect of the aged garlic extract, 'Kyolic', on the development of experimental atherosclerosis. Efendy JL, et al. **Atherosclerosis** 1997 Jul 11;132(1):37–42

Effects of aspirin and garlic on cyclooxygenase–induced chemiluminescence in human term placenta. Das I, et al. **Biochem Soc Trans** 1997 Feb;25(1):99S

Aged garlic extract prolongs longevity and improves spatial memory deficit in senescence–accelerated mouse. Moriguchi T, et al. **Biol Pharm Bull** 1996 Feb;19(2):305–7

Allium sativum (garlic) treatment for murine transitional cell carcinoma. Riggs DR, et al. **Cancer** 1997 May 15; 79(10):1987–94

Modulatory potential of smokeless tobacco on the garlic, mace or black mustard–altered hepatic detoxication system enzymes, sulfhydryl content and lipid peroxidation in murine system. Singh A, et al. **Cancer Lett** 1997 Sep 16; 118(1):109–14

Mechanism of differential efficacy of garlic organosulfides in preventing benzo(a)pyrene–induced cancer in mice. Srivastava SK, et al. **Cancer Lett** 1997 Sep 16;118(1):61–7

Selenium–enriched garlic inhibits the early stage but not the late stage of mammary carcinogenesis. Ip C, et al. **Carcinogenesis** 1996 Sep;17(9):1979–82

Effect on an aqueous extract of selenium–enriched garlic on in vitro markers and in vivo efficacy in cancer prevention. Lu J, et al. **Carcinogenesis** 1996 Sep;17(9):1903–7

Anti–ageing effect of aged garlic extract in the inbred brain atrophy mouse model. Moriguchi T, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr;24(3–4):235–42

Inhibition of Helicobacter pylori by garlic extract (Allium sativum). Cellini L, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):273–7

Hypocholesterolemic efficacy of garlic–smelling flower Adenocalymma alliaceum Miers. in experimental rats. Srinivasan MR, et al. **Indian J Exp Biol** 1995 Jan;33(1):64–6

Radio–protective effect of garlic Allium sativum Linn. in albino rats [published erratum appears in Indian J Med Sci 1996 Nov;50(11):334] Jaiswal SK, et al. **Indian J Med Sci** 1996 Jul;50(7):231–3

Garlic preserves patency and delays hyperthermia–induced thrombosis in pial microcirculation. el–Sabban F, et al. **Int J Hyperthermia** 1996 Jul–Aug;12(4):513–25

In vitro efficacy of a compound derived from garlic against Pneumocystis carinii [letter] Abdullah TH. **J Natl Med Assoc** 1996 Nov;88(11):694, 704

Garlic powder in the treatment of moderate hyperlipidaemia: a controlled trial and meta–analysis. Neil HA, et al. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):329–34

Garlic for flavour, not cardioprotection [see comments] Beaglehole R. **Lancet** 1996 Nov 2;348(9036):1186–7. Comment in: Lancet 1997 Jan 11;349(9045):131. Comment in: Lancet 1997 Jan 11;349(9045):131–2.

Cardioprotection and garlic [letter; comment] Ernst E. **Lancet** 1997 Jan 11;349(9045):131. Comment on: Lancet 1996 Nov 2;348(9036):1186–7.

Cardioprotection and garlic [letter; comment] Myers SP, et al. **Lancet** 1997 Jan 11;349(9045):131–2. Comment on: Lancet 1996 Nov 2;348(9036):1186–7.

Cardioprotection and garlic [letter; comment] Rahman K, et al. **Lancet** 1997 Jan 11;349(9045):131. Comment on: Lancet 1996 Nov 2;348(9036):1186–7.

Inhibition of clastogenic effects of arsenic through continued oral administration of garlic extract in mice in vivo. Choudhury AR, et al. **Mutat Res** 1997 Aug 14; 392(3):237–42

Reducing effects of garlic constituents on DNA adduct formation in human lymphocytes in vitro. Hageman GJ, et al. **Nutr Cancer** 1997;27(2):177–85

Garlic powder and allyl sulfur compounds enhance the ability of dietary selenite to inhibit 7,12–dimethylbenz[a]anthracene–induced mammary DNA adducts. Schaffer EM, et al. **Nutr Cancer** 1997;27(2):162–8

Helicobacter pylori—in vitro susceptibility to garlic (Allium sativum) extract. Sivam GP, et al. **Nutr Cancer** 1997; 27(2):118–21

Garlic: its anticarcinogenic and antitumorigenic properties. Milner JA. **Nutr Rev** 1996 Nov;54(11 Pt 2):S82–6 (36 ref.)

Garlic: the key to sophisticated lowering of hepatocellular lipid [editorial] Gebhardt R. **Nutrition** 1997 Apr; 13(4):379–80

Aged garlic extract and its constituents inhibit Cu(2+)–induced oxidative modification of low density lipoprotein [letter] Ide N, et al. **Planta Med** 1997 Jun; 63(3):263–4

Mechanism by which garlic (Allium sativum) inhibits cyclooxygenase activity. Effect of raw versus boiled garlic extract on the synthesis of prostanoids. Ali M. **Prostaglandins Leukot Essent Fatty Acids** 1995 Dec; 53(6):397–400

The effect of aqueous garlic extract on the levels of arachidonic acid metabolites (leukotriene C4 and prostaglandin E2) in rat forebrain after ischemia–reperfusion injury. Batirel HF, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Apr; 54(4):289–92

[The effect of topically garlic solution painting on experimental oral precancer and oral cancer in rats] Tang Z, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):232–4 **(Chi)**

[Anti–Helicobacter pylori activity in the garlic extract] Wong RM, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep; 93(9):688 **(Jpn)**

[Effect of the garlic tablets allicor on thrombocyte aggregation in vitro and ex vivo] Andrianova IV, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):97–100 **(Rus)**

[The effect of garlic preparation alisat on the level of lipid peroxidation products, activity of various antioxidant enzymes, and blood level of lipoproteins in patients with atherosclerosis] Mikhin VP, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):502–4 **(Rus)**

[Direct antiatherogenic effect of garlic] Orekhov AN, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):695–7 **(Rus)**

ADVERSE EFFECTS

Garlic burns of the breast [letter] Roberge RJ, et al. **Am J Emerg Med** 1997 Sep;15(5):548

A case of diet–related pemphigus. Ruocco V, et al. **Dermatology** 1996;192(4):373–4

CHEMISTRY

The attributes of selenium–enriched garlic in cancer prevention. Ip C, et al. **Adv Exp Med Biol** 1996;401:179–87 (25 ref.)

The stinking rose: organosulfur compounds and cancer [editorial; comment] Heber D. **Am J Clin Nutr** 1997 Aug; 66(2):425–6. Comment on: Am J Clin Nutr 1997 Aug;66(2):398–405.

Inhibition of microbial growth by ajoene, a sulfur–containing compound derived from garlic. Naganawa R, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4238–42

Glutathione S–transferases of female A/J mouse lung and their induction by anticarcinogenic organosulfides from garlic. Hu X, et al. **Arch Biochem Biophys** 1997 Apr 15; 340(2):279–86

Assessment of the anticarcinogenic potential of raw garlic in humans. Hageman G, et al. **Cancer Lett** 1997 Mar 19; 114(1–2):161–2

Beneficial effects of aged garlic extract on learning and memory impairment in the senescence–accelerated mouse. Nishiyama N, et al. **Exp Gerontol** 1997 Jan–Apr; 32(1–2):149–60

Therapeutic values of onion (Allium cepa L.) and garlic (Allium sativum L.). Augusti KT. **Indian J Exp Biol** 1996 Jul;34(7):634–40 (77 ref.)

Differential inhibitory effects of garlic–derived organosulfur compounds on cholesterol biosynthesis in primary rat hepatocyte cultures. Gebhardt R, et al. **Lipids** 1996 Dec; 31(12):1269–76

A new high molecular weight agglutinin from garlic (Allium sativum). Gupta A, et al. **Mol Cell Biochem** 1997 Jan; 166(1–2):1–9

Attenuation of rat ischemic brain damage by aged garlic extracts: a possible protecting mechanism as antioxidants. Numagami Y, et al. **Neurochem Int** 1996 Aug;29(2):135–43

S–allyl cysteine inhibits nitrosomorpholine formation and bioactivation. Dion ME, et al. **Nutr Cancer** 1997;28(1):1–6

Allium sativum–induced death of African trypanosomes. Nok AJ, et al. **Parasitol Res** 1996;82(7):634–7
[The long path toward "odorless garlic"] Koch HP. **Pharm Unserer Zeit** 1996 Jul;25(4):186–91 (44 ref.) **(Ger)**

ENZYMOLOGY

On the mechanism of biosynthesis of divinyl ether oxylipins by enzyme from garlic bulbs. Grechkin AN, et al. **Eur J Biochem** 1997 Apr 1;245(1):137–42

GENETICS

Isolation, characterization and molecular cloning of the mannose–binding lectins from leaves and roots of garlic (Allium sativum L.). Smeets K, et al. **Plant Mol Biol** 1997 Jan;33(2):223–34

METABOLISM

Effect of the active principle of garlic—diallyl sulfide—on cell viability, detoxification capability and the antioxidation system of primary rat hepatocytes. Sheen LY, et al. **Food Chem Toxicol** 1996 Oct;34(10):971–8
Antibiotics and garlic clove extract—inhibitory agents of cell wall degrading enzymes. Alice D, et al. **Hindustan Antibiot Bull** 1995 Feb–Nov;37(1–4):44–7
Electrophoretic identification of garlic and garlic products. Mochizuki E, et al. **J AOAC Int** 1996 Nov–Dec; 79(6):1466–70
Arginine is not responsible for the activation of nitric oxide synthase by garlic. Das I, et al. **J Ethnopharmacol** 1996 Jul 26;53(1):5–9
Involvement of calcium in the cardiac depressant actions of a garlic dialysate. Martín N, et al. **J Ethnopharmacol** 1997 Jan;55(2):113–8
Isolation, characterization and molecular cloning of the mannose–binding lectins from leaves and roots of garlic (Allium sativum L.). Smeets K, et al. **Plant Mol Biol** 1997 Jan;33(2):223–34
An evaluation of garlic and onion as antithrombotic agents. Bordia T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Mar; 54(3):183–6

PHYSIOLOGY

Isolation and characterization of lectins and lectin–alliinase complexes from bulbs of garlic (Allium sativum) and ramsons (Allium ursinum). Smeets K, et al. **Glycoconj J** 1997 Apr;14(3):331–43

GARTER SNAKE see **COLUBRIDAE**

GARTNER'S DUCTS see **WOLFFIAN DUCT**

GAS GANGRENE

Nontraumatic gas gangrene. Valentine EG. **Ann Emerg Med** 1997 Jul;30(1):109–11
Necrotizing soft–tissue infections. Chapnick EK, et al. **Infect Dis Clin North Am** 1996 Dec;10(4):835–55 (102 ref.)

COMPLICATIONS

Sacral chordoma, gas gangrene and bilateral renal cell carcinomas. Harrington KJ, et al. **Clin Oncol (R Coll Radiol)** 1996;8(2):123–4
Acute papillary muscle rupture in a patient with clostridial sepsis. Schulz R, et al. **J Intern Med** 1997 Mar;241(3):253–5

DIAGNOSIS

Hyperbaric oxygen and gas gangrene [letter; comment] Lindsey D. **Br J Hosp Med** 1996 Feb 7–20;55(3):147. Comment on: Br J Hosp Med 1995 May 3–16;53(9):424–6.
[Anaerobic gas gangrene after the amputation of an extremity] Izmailov GA, et al. **Vestn Khir Im I I Grek** 1996;155(5):77–9 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Spontaneous gas gangrene: an unusual complication of colonic carcinoma. Hawkins C, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):184–5
A coincidence of disastrous accidents: Crohn's disease, agranulocytosis, and Clostridium septicum infection. Thalhammer F, et al. **J Trauma** 1997 Sep;43(3):556–7
Posttraumatic gas–containing brain abscess caused by Clostridium perfringens with unique simultaneous fungal suppuration by Myceliophthora thermophila: case report. Tekkök IH, et al. **Neurosurgery** 1996 Dec;39(6):1247–51
Postoperative gangrenous peritonitis after laparoscopic cholecystectomy: a new complication for a new technique [see comments] García–Olmo D, et al. **Surg Laparosc Endosc** 1996 Jun;6(3):224–5. Comment in: Surg Laparosc Endosc 1997 Apr;7(2):179–80.
Postoperative gangrenous peritonitis after laparoscopic cholecystectomy: a new complication for a new technique, or an old complication of delay in the diagnosis and management of acute acalculous cholecystitis in a high–risk patient [letter; comment] Posta CG. **Surg Laparosc Endosc** 1997 Apr;7(2):179–80. Comment on: Surg Laparosc Endosc 1996 Jun;6(3):224–5.
[Apropos of a case of gas gangrene of the abdominal wall after cholecystectomy (letter)] Mohammadine E, et al. **J Chir (Paris)** 1996;133(8):401–3 (Eng. Abstr.) **(Fre)**
[Generalized gas gangrene infection with rhabdomyolysis following cholecystectomy] Haerty W, et al. **Anaesthesist** 1997 Mar;46(3):207–10 (Eng. Abstr.) **(Ger)**
[Spontaneous gas gangrene in a female patient with aplastic anemia] Budianskii VM, et al. **Ter Arkh** 1996;68(2):70–1 (8 ref.) **(Rus)**
[Post–traumatic gaseous gangrene in childhood: a case report] Morcate JJ, et al. **Cir Pediatr** 1996 Jan;9(1):42–3 (Eng. Abstr.) **(Spa)**
[Gas gangrene secondary to carcinoma of the colon] Ruiz de Adana JC, et al. **Rev Esp Enferm Dig** 1997 Jun; 89(6):479–80 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Clostridial gas gangrene: evidence that alpha and theta toxins differentially modulate the immune response and induce acute tissue necrosis. Stevens DL, et al. **J Infect Dis** 1997 Jul;176(1):189–95

MICROBIOLOGY

Liver cirrhosis with synchronous gas gangrene and spontaneous bacterial peritonitis due to E. coli. Murata K, et al. **J Gastroenterol** 1997 Apr;32(2):264–7
Aeromonas hydrophila necrotizing fasciitis and gas gangrene in a diabetic patient on haemodialysis. Furusu A, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1730–4
Gas gangrene of the arm due to Enterobacter cloacae in a neutropenic patient. Fata F, et al. **South Med J** 1996 Nov; 89(11):1095–6
[Gas gangrene of ischemic myocardial tissue caused by Clostridium septicum] den Bakker MA, et al. **Ned Tijdschr Geneeskd** 1996 Dec 21;140(51):2547–50 (Eng. Abstr.) **(Dut)**

PATHOLOGY

[Gas gangrene due to Clostridium septicum in a patient with an occult colonic neoplasm. A case report and review of the literature] Sáez Castillo AI, et al. **Gastroenterol Hepatol** 1997 Feb;20(2):55–8 (13 ref.) (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

CT of pancreatic gas gangrene. McCloskey M, et al. **Australas Radiol** 1996 Feb;40(1):75–6

THERAPY

Hyperbaric oxygen and gas gangrene [letter; comment] Lindsey D. **Br J Hosp Med** 1996 Feb 7–20;55(3):147. Comment on: Br J Hosp Med 1995 May 3–16;53(9):424–6.

GAS MASKS see **RESPIRATORY PROTECTIVE DEVICES**

GAS, NATURAL see **FOSSIL FUELS**

GAS POISONING

[The nerve gas terrorist attack in Tokyo subway 1995. Cooperation during the relief work is necessary] Kulling P, et al. **Lakartidningen** 1997 Jun 18;94(25):2395–8 **(Swe)**

COMPLICATIONS

Rhabdomyolysis and suicidal hydrocarbon inhalation [letter] Betrosian A, et al. **Ann Emerg Med** 1997 Feb;29(2):301–2
Effects of a hydrochloric acid spill on neurobehavioral and pulmonary function. Kilburn KH. **J Occup Environ Med** 1996 Oct;38(10):1018–25

DRUG THERAPY

Therapeutic efficacy of obidoxime or HI–6 with atropine against intoxication with some nerve agents in mice. Kassa J, et al. **Acta Medica (Hradec Kralove)** 1996;39(1):27–30

EPIDEMIOLOGY

Long term morbidity in survivors of the 1984 Bhopal gas leak. Cullinan P, et al. **Natl Med J India** 1996 Jan–Feb; 9(1):5–10

PATHOLOGY

Ammonia gassing deaths--a report on two cases. Chao TC, et al. **Singapore Med J** 1996 Apr;37(2):147–9 (11 ref.)
Fatal gassing due to methylene chloride – a case report. Tay P, et al. **Singapore Med J** 1995 Aug;36(4):444–5

GAS SCAVENGERS

Reduction of NO2 by a NO2–selective scavenger. Gilly H, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:83–4
The hazards of anaesthetic gas scavenging systems. Farquhar–Thomson DR, et al. **Anaesthesia** 1996 Sep; 51(9):860–2
An unpredictable and possibly dangerous hazard of an anaesthetic scavenging system [letter] Sivalingam P, et al. **Anaesthesia** 1997 Jun;52(6):609–10
Mistaken connection of scavenging tube to mask [letter] Nathan B, et al. **Anesth Analg** 1997 Sep;85(3):704
Extraction of nitric oxide and nitrogen dioxide using molecular sieve 5A [letter; comment] Findlay GP, et al. **Br J Anaesth** 1997 Mar;78(3):343–4. Comment on: Br J Anaesth 1996 Oct;77(4):534–6.
Extraction of nitric oxide and nitrogen dioxide from an oxygen carrier using molecular sieve 5A [see comments] Poulton BB, et al. **Br J Anaesth** 1996 Oct;77(4):534–6. Comment in: Br J Anaesth 1997 Mar;78(3):343–4.
An effective method of scavenging nitric oxide. Squire S, et al. **Br J Anaesth** 1996 Sep;77(3):432–4
A portable nitric oxide scavenging system designed for use on neonatal transport [letter; comment] Leslie AM. **Crit Care Med** 1997 Feb;25(2):375–6. Comment on: Crit Care Med 1996 Jun;24(6):1068–71.
The 'hourglass' reservoir bag. A closed scavenging system for the Jackson Rees modification of Ayre's 'T'–piece [letter] Prosser DP. **Paediatr Anaesth** 1997;7(2):177
[Effectiveness of anesthetic gas scavengers fulfilling EN 740 requirements with reference to equipment leakage and fresh gas flow] Marx T, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Feb; 32(2):101–4 (Eng. Abstr.) **(Ger)**

GASES

A successfully treated case of multiple liver abscesses accompanied by portal venous gas. Yoshida M, et al. **Am J Gastroenterol** 1996 Nov;91(11):2423–5
Gaseous disinfection of Cryptosporidium parvum oocysts. Fayer R, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3908–9
Fabrication of an autoclavable one–way valve for venting fermentation gases. Skory CD, et al. **Biotechniques** 1997 Jan;22(1):82
Case report: The "veiled right kidney sign"—an ultrasound finding in retroperitoneal perforation of the duodenum. McWilliams RG, et al. **Br J Radiol** 1996 Nov; 69(827):1061–3
Radiologic interpretation of vacuum phenomena. Balkissoon AR. **Crit Rev Diagn Imaging** 1996 Oct;37(5):435–60 (25 ref.)
NFPA 99–1996: changes for gas and vacuum systems. **Health Devices** 1996 Dec;25(12):474–5
Stabilized bubbles in the body: pressure–radius relationships and the limits to stabilization. Van Liew HD, et al. **J Appl Physiol** 1997 Jun;82(6):2045–53
Gas–phase protonation of pyridine. A variable–time neutralization–reionization and Ab initio study of pyridinium radicals. Nguyen VQ, et al. **J Mass Spectrom** 1997 Jan;32(1):55–63
Gas explosion during colonic surgery. De Wilt JH, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):419
Pneumaturia in a young woman. Frangi I, et al. **J Urol** 1997 Mar;157(3):961
Tissue ablation and gas formation of two excimer laser systems: an in vitro evaluation on porcine aorta. Appelman YE, et al. **Lasers Surg Med** 1996;18(2):197–205
Nitric oxide gas. Bonner FT. **Methods Enzymol** 1996;268:50–7
NMR identification of hydrophobic cavities with low water occupancies in protein structures using small gas molecules. Otting G, et al. **Nat Struct Biol** 1997 May;4(5):396–404
Gaseous transmitters and neuroendocrine regulation. Brann DW, et al. **Neuroendocrinology** 1997 Jun;65(6):385–95 (88 ref.)
Importance of surface tension in therapeutic compression in decompression sickness. Hrnčiř E. **Physiol Res** 1996; 45(6):467–70
Belching, bloating, and flatulence. How to help patients who have troublesome abdominal gas. Rao SS. **Postgrad Med** 1997 Apr;101(4):263–9, 275–8 (23 ref.)
Clinical intestinal gas syndromes. Clearfield HR. **Prim Care** 1996 Sep;23(3):621–8 (19 ref.)
Extensive intraosseous gas associated with lymphangiomatosis of bone: report of three cases. Brown RR, et al. **Radiology** 1997 Oct;205(1):260–2
Removal of subretinal gas using perfluorocarbon liquid. Brown AD, et al. **Retina** 1997;17(1):70–1
Evidence for interacting gas flows and an extended volatile source distribution in the coma of comet C/1996 B2 (Hyakutake). Harris WM, et al. **Science** 1997 Aug 1; 277(5326):676–81
Getting a handle on air pollution's tiny killers [news; comment] Kaiser J. **Science** 1997 Apr 4;276(5309):33. Comment on: Science 1997 Apr 4;276(5309):96–9.
The atmospheric aerosol–forming potential of whole gasoline vapor [see comments] Odum JR, et al. **Science** 1997 Apr 4;276(5309):96–9. Comment in: Science 1997 Apr 4;276(5309):33.
Lumbar nerve root compression caused by lumbar intraspinal gas. Report of three cases. Yoshida H, et al. **Spine** 1997 Feb 1;22(3):348–51
[Mesenteric and portal venous gas in infarction of the small intestine in adults. Apropos of 3 clinical cases. Value of x–ray computed tomography] Gilbeau JP, et al. **J Radiol** 1997 Jun;78(6):439–42 (Eng. Abstr.) **(Fre)**
[CT detection of a case of mastoid pneumatocele] Scanni M, et al. **Radiol Med (Torino)** 1996 Dec;92(6):790–1 **(Ita)**

ADMINISTRATION & DOSAGE

The importance of injection rate in achieving a single intraocular gas bubble. Aylward GW, et al. **Eye** 1996;10 (Pt 5):590–2
Surgical treatment of full–thickness macular holes using

autologous serum. Wells JA, et al. **Eye** 1996;10 (Pt 5):593–9

ADVERSE EFFECTS

Ventilation effects on combustion products. Tewarson A. **Toxicology** 1996 Dec 31;115(1–3):145–56 (9 ref.)

[Epidemiology of lung cancer in former poison–gas workers and molecular approaches to lung cancer] Yamakido M. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:8–12 (11 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

Leaks from breathing system gas sampling points fitted with Luer connections [letter] Smith PJ, et al. **Anaesthesia** 1997 Jul;52(7):707–8

Method for the collection and assay of volatile organic compounds in breath. Phillips M. **Anal Biochem** 1997 May 1;247(2):272–8

Spatial and temporal visualization of gases and vapours in air using computed tomography. Numerical studies. Bhattacharyya R, et al. **Ann Occup Hyg** 1997 Jan; 41(1):105–22

The selected ion flow tube (SIFT)—a novel technique for biological monitoring. Spaněl P, et al. **Ann Occup Hyg** 1996 Dec;40(6):615–26

Middle ear gas composition in pathologic conditions: mass spectrometry in otitis media with effusion and atelectasis. Hergils L, et al. **Ann Otol Rhinol Laryngol** 1997 Sep; 106(9):743–5

Evaluation of virtual source beam configurations for rapid tomographic reconstruction of gas and vapor concentrations in workplaces. Park DY, et al. **J Air Waste Manag Assoc** 1997 May;47(5):582–91

Atmospheric pollutants in Uludağ National Park. Tuncel SG, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):115–27

Use of residence time distribution for evaluation of gaseous pollutant volatilization from stored swine manure. Liao CM. **J Environ Sci Health B** 1997 Jan;32(1):127–45

Selected ion flow tube: a technique for quantitative trace gas analysis of air and breath. Spaněl P, et al. **Med Biol Eng Comput** 1996 Nov;34(6):409–19

Alarming readings. Rekus J. **Occup Health Saf** 1994 Oct; 63(10):59–62, 64, 66–7

Mass spectrometry analysis of the by–products of intrastromal photorefractive keratectomy. Habib MS, et al. **Ophthalmic Surg Lasers** 1995 Sep–Oct;26(5):481–3

Changes in gas composition in the swimbladder of the European eel (Anguilla anguilla) infected with Anguillicola crassus (Nematoda). Würtz J, et al. **Parasitology** 1996 Feb; 112 (Pt 2):233–8

[Determination of concentration and emission of gases relevant to animal and environmental hygiene in different systems for fattening of pigs with the aid of multigas monitoring] Hoy S, et al. **Berl Munch Tierarztl Wochenschr** 1996 Feb;109(2):46–50 (Eng. Abstr.) **(Ger)**

[Results of continuous gas measurements rabbit housing by using multi–gas monitoring] Michl R, et al. **Berl Munch Tierarztl Wochenschr** 1996 Sep;109(9):340–3 (Eng. Abstr.) **(Ger)**

BLOOD

The influence of blood gas changes on hyperthermia–induced seizures in developing rats. Morimoto T, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):77–80

Respiratory, blood–gas transport, and acid–base response of Leptograpsus variegatus to long–term immersion and hyposaline exposure. Cooper AR, et al. **Physiol Zool** 1997 Mar–Apr;70(2):181–92

CHEMISTRY

Retention in hydrophobic interaction chromatography and dissolution of nonpolar gases in water. Vailaya A, et al. **Biophys Chem** 1996 Nov 29;62(1–3):81–93

Breakthrough times for vapors of organic solvents with low boiling points in steady–state and pulsating flows on respirator cartridges. Tanaka S, et al. **Ind Health** 1996; 34(2):125–31

Adsorption from a one–dimensional lattice gas and the Brunauer–Emmett–Teller equation. Hill TL. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14328–32

DIAGNOSTIC USE

Gas–filled microbubbles as novel pressure–sensitive contrast agents for magnetic resonance imaging. Alexander AL, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S370–2

METABOLISM

Immune modulation of the hypothalamic–pituitary–adrenal axis. Cytokines and gases in the hypothalamus. Grossman A, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:225–33 (17 ref.)

Gas vesicle formation in halophilic Archaea. Pfeifer F, et al. **Arch Microbiol** 1997 May;167(5):259–68

Intestinal gas in children [editorial] Hyams JS. **Curr Opin Pediatr** 1996 Oct;8(5):467–70 (28 ref.)

Gaseous second messengers in vertebrate olfaction. Broillet MC, et al. **J Neurobiol** 1996 May;30(1):49–57 (65 ref.)

Oscillations and gaseous oxides in invertebrate olfaction. Gelperin A, et al. **J Neurobiol** 1996 May;30(1):110–22 (119 ref.)

Gas access to the active site of Ni–Fe hydrogenases probed by X–ray crystallography and molecular dynamics [letter] Montet Y, et al. **Nat Struct Biol** 1997 Jul;4(7):523–6

PHARMACOKINETICS

B–mode effects of third–generation sonographic contrast agents. Ostensen J, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S191–3

The effect of anaesthesia on the intraocular volume of the C3F8 gas bubble. Briggs M, et al. **Eye** 1997;11 (Pt 1):47–52

A mathematical model of bronchial absorption of vapors in the human lung and its significance in pharmacokinetic modeling. Shelley ML, et al. **SAR QSAR Environ Res** 1996; 5(4):221–53

Diffusion coefficients and solubility coefficients for gases in biological fluids and tissues: a review. Langø T, et al. **Undersea Hyperb Med** 1996 Dec;23(4):247–72

PHARMACOLOGY

Regulation and properties of a fungal lipase showing interfacial inactivation by gas bubbles, or droplets of lipid or fatty acid. Stahmann KP, et al. **Eur J Biochem** 1997 Feb 15;244(1):220–5

Diffusion of nonelectrolytes in the canine trachea: effect of tight junction. George SC, et al. **J Appl Physiol** 1996 May; 80(5):1687–95

Cardiopulmonary responses to intravenous infusion of soluble and relatively insoluble gases. Roberts MW, et al. **Surg Endosc** 1997 Apr;11(4):341–6

POISONING see **GAS POISONING**

STANDARDS

Medical gas and water: new frontier for artificial organ technologies [editorial] Nosé Y. **Artif Organs** 1997 Jan; 21(1):1

TOXICITY

Mass–transport models to predict toxicity of inhaled gases in the upper respiratory tract. Hubal EA, et al. **J Appl Physiol** 1996 Apr;80(4):1415–27

New research avenues in combustion toxicology. **Toxicology** 1996 Dec 31;115(1–3):185–200

Smoke toxicity 'standard' test method for materials. **Toxicology** 1996 Dec 31;115(1–3):201–22

Fractional effective dose model for post–crash aircraft survivability. Speitel LC. **Toxicology** 1996 Dec 31; 115(1–3):167–77 (30 ref.)

URINE

The urinary excretion of solvents and gases for the biological monitoring of occupational exposure: a review. Gobba F, et al. **Sci Total Environ** 1997 Jun 20;199(1–2):3–12 (46 ref.)

GASES, INERT see **NOBLE GASES**

GASES, RARE see **NOBLE GASES**

GASOLINE

Manganese in the U.S. gasoline supply. Frumkin H, et al. **Am J Ind Med** 1997 Jan;31(1):107–15

Genotoxic effects in workers exposed to low levels of benzene from gasoline. Nilsson RI, et al. **Am J Ind Med** 1996 Sep;30(3):317–24

Results of an epidemiologic study of acute myeloid leukemia (AML) incidence among Swedish petrol station attendants [letter; comment] Swaen GM. **Arch Environ Health** 1996 Nov–Dec;51(6):469–71. Comment on: Arch Environ Health 1993 Jul–Aug;48(4):255–9. Comment on: Arch Environ Health 1993 Nov–Dec;48(6):428–35.

Reaction of proteins with vehicle exhaust soot. Bolton CH, et al. **Biochem Soc Trans** 1996 May;24(2):179S

Petrol–related burns [letter; comment] Baruchin AM, et al. **Burns** 1996 Sep;22(6):504. Comment on: Burns 1995 Feb;21(1):36–8. Comment on: Burns 1995 Nov;21(7):539–41.

Burns following petrol sniffing. Janežič TF. **Burns** 1997 Feb; 23(1):78–80 (18 ref.)

Loss of tumor–promoting activity of unleaded gasoline in N–nitrosodiethylamine–initiated ovariectomized B6C3F1 mouse liver. Moser GJ, et al. **Carcinogenesis** 1997 May; 18(5):1075–83

Identification of environmental hazards of gasoline oxygenate tert–amyl methyl ether (TAME). Huttunen H, et al. **Chemosphere** 1997 Sep;35(6):1199–214

Phasing out leaded gasoline will not end lead poisoning in developing countries [editorial] Finkelman J. **Environ Health Perspect** 1996 Jan;104(1):10–1

Too easily lead? Health effects of gasoline additives. Menkes DB, et al. **Environ Health Perspect** 1997 Mar;105(3):270–3 (42 ref.)

Leaded gasoline abuse: the role of tetraethyl lead. Tenenbein M. **Hum Exp Toxicol** 1997 Apr;16(4):217–22 (44 ref.)

Liquid/air partition coefficients of methyl and ethyl T–butyl ethers, T–amyl methyl ether, and T–butyl alcohol. Nihlen A, et al. **J Expo Anal Environ Epidemiol** 1995 Oct–Dec; 5(4):573–82

Neuropsychological symptoms among tanker drivers exposed to gasoline. Hakkola M, et al. **Occup Med (Oxf)** 1996 Apr; 46(2):125–30

Characterization of fuel and aftertreatment device effects on diesel emissions. Bagley ST, et al. **Res Rep Health Eff Inst** 1996 Sep;(76):1–75; discussion 77–86

Getting a handle on air pollution's tiny killers [news; comment] Kaiser J. **Science** 1997 Apr 4;276(5309):33. Comment on: Science 1997 Apr 4;276(5309):96–9.

The atmospheric aerosol–forming potential of whole gasoline vapor [see comments] Odum JR, et al. **Science** 1997 Apr 4;276(5309):96–9. Comment in: Science 1997 Apr 4;276(5309):33.

ADVERSE EFFECTS

Risk of cancer and exposure to gasoline vapors. Lynge E, et al. **Am J Epidemiol** 1997 Mar 1;145(5):449–58

Exposure of tanker drivers to gasoline and some of its components. Hakkola M, et al. **Ann Occup Hyg** 1996 Feb; 40(1):1–10

The kerosene tragedy of 1994, an unusual epidemic of burns: epidemiological aspects and management of patients. Gupta M, et al. **Burns** 1996 Feb;22(1):3–9

Environmental exposure to gasoline and leukemia in children and young adults—an ecology study. Nordlinder R, et al. **Int Arch Occup Environ Health** 1997;70(1):57–60

Lung cancer due to diesel soot particles in ambient air? A critical appraisal of epidemiological studies addressing this question [see comments] Stöber W, et al. **Int Arch Occup Environ Health** 1996;68 Suppl:S3–61 (292 ref.). Comment in: Int Arch Occup Environ Health 1996;68 Suppl:S1–2.

Dangerous and cancer–causing properties of products and chemicals in the oil–refining and petrochemical industry—Part XXII: Health hazards from exposure to gasoline containing methyl tertiary butyl ether: study of New Jersey residents. Mehlman MA. **Toxicol Ind Health** 1996 Sep–Oct;12(5):613–27 (56 ref.)

ANALYSIS

Fuel identification by neural network analysis of the response of vapor–sensitive sensor arrays. McCarrick CW, et al. **Anal Chem** 1996 Dec 1;68(23):4264–9

Biodegradation studies of selected hydrocarbons from diesel oil. Sepič E, et al. **Analyst** 1996 Oct;121(10):1451–6

Decline in blood lead in Ontario children correlated to decreasing consumption of leaded gasoline, 1983–1992 [letter] Wang ST, et al. **Clin Chem** 1997 Jul;43(7):1251–2

Ambient air concentrations of fine (PM2.5) manganese in U.S. national parks and in California and Canadian cities: the possible impact of adding MMT to unleaded gasoline. Wallace L, et al. **J Air Waste Manag Assoc** 1997 Jun; 47(6):642–52

Evaluation of environmental levels of aromatic hydrocarbons in gasoline service stations by gas chromatography. Periago JF, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):263–8

Exposure in a household using gasoline–contaminated water. Beavers JD, et al. **J Occup Environ Med** 1996 Jan; 38(1):35–8

MICROBIOLOGY

Environmental gasoline–utilizing isolates and clinical isolates of Pseudomonas aeruginosa are taxonomically indistinguishable by chemotaxonomic and molecular techniques. Foght JM, et al. **Microbiology** 1996 Sep;142 (Pt 9):2333–40

STANDARDS

Fueling the gas debate [news] [published erratum appears in Environ Health Perspect 1996 Sep;104(9):920] **Environ Health Perspect** 1996 Jul;104(7):687–9

STATISTICS & NUMERICAL DATA

Influence of physical and chemical characteristics of diesel fuels and exhaust emissions on biological effects of particle extracts: a multivariate statistical analysis of ten diesel fuels. Sjögren M, et al. **Chem Res Toxicol** 1996 Jan–Feb; 9(1):197–207

TOXICITY

Carbon monoxide poisoning from gasoline–powered engines: risk perception among Midwest flood victims [letter] Greife AL, et al. **Am J Public Health** 1997 Mar;87(3):466–7

Cell proliferation and regulation of negative growth factors in mouse liver foci. Moser GJ, et al. **Carcinogenesis** 1996 Sep;17(9):1835–40

Influence of physical and chemical characteristics of diesel fuels and exhaust emissions on biological effects of particle extracts: a multivariate statistical analysis of ten diesel fuels. Sjögren M, et al. **Chem Res Toxicol** 1996 Jan–Feb; 9(1):197–207

Short–term exposure to diesel exhaust induces nasal mucosal hyperresponsiveness to histamine in guinea pigs. Kobayashi T, et al. **Fundam Appl Toxicol** 1997 Aug;38(2):166–72

Comparative short–term effects of methyl tertiary butyl ether and unleaded gasoline vapor in female B6C3F1 mice. Moser GJ, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):173–83

Nephrotoxic effects of unleaded petrol in female rats. Vyskocil A, et al. **J Appl Toxicol** 1996 Jan–Feb;16(1):55–6

Screening toxic effects of volatile organic compounds using Drosophila melanogaster. Wasserkort R, et al. **J Appl Toxicol** 1997 Mar–Apr;17(2):119–25

SCE analysis in peripheral blood lymphocytes of a group of filling station attendants. Pitarque M, et al. **Mutat Res** 1997 Apr 24;390(1–2):153–9

GASSERIAN GANGLION see **TRIGEMINAL GANGLION**

GASSER'S SYNDROME see **HEMOLYTIC–UREMIC SYNDROME**

GASTRECTOMY

see related
GASTRIC STUMP
POSTGASTRECTOMY SYNDROMES

Occurrence and significance of Helicobacter pylori infection after gastric surgery. Bahnacy A, et al. **Acta Chir Hung** 1995–96;35(3–4):201–7

Effectiveness of extended lymphadenectomy in noncurative gastrectomy [letter; comment] Roukos D, et al. **Am J Surg** 1996 Sep;172(3):303. Comment on: Am J Surg 1995 Feb;169(2):261–4.

Thoracoscopic vagotomy as a safe adjunct to remedial gastric surgery. Schuricht AL, et al. **Am Surg** 1997 Jun;63(6):540–2

The effects of atrial natriuretic peptide infusion on hemodynamic, renal, and hormonal responses during gastrectomy. Shirakami G, et al. **Anesth Analg** 1997 Oct; 85(4):907–12

Whole lung torsion after a thoracoabdominal esophagogastrectomy. Fisher CF, et al. **Anesthesiology** 1997 Jul;87(1):162–4

Calcium regulation and bone mass loss after total gastrectomy in pigs. Maier GW, et al. **Ann Surg** 1997 Feb;225(2):181–92

Ileocolon interposition as a substitute stomach after total or proximal gastrectomy. Sakamoto T, et al. **Ann Surg** 1997 Aug;226(2):139–45

Role of endogenous somatostatin in postprandial hypersecretion of neurotensin in patients after gastrectomy. Sakamoto T, et al. **Ann Surg** 1997 Apr;225(4):377–81

Complex metabolic studies in postoperative patients [letter; comment] Samra JS, et al. **Ann Surg** 1997 Jan;225(1):130–1 . Comment on: Ann Surg 1995 Nov;222(5):646–53.

The prevention of anastomotic leakage after total gastrectomy with local decontamination. A prospective, randomized, double-blind, placebo-controlled multicenter trial. Schardey HM, et al. **Ann Surg** 1997 Feb;225(2):172–80

Prediction of hospital stay after total gastrectomy. Zilling T, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1355–9

Enteral versus parenteral nutrition after oesophagogastric surgery: a prospective randomized comparison. Baigrie RJ, et al. **Aust N Z J Surg** 1996 Oct;66(10):668–70

Thoracoscopic vagotomy for recurrent ulcer after previous gastric operation. Poon R, et al. **Aust N Z J Surg** 1997 Apr;67(4):177–80

End results of simultaneous pancreatectomy, splenectomy and total gastrectomy for patients with gastric carcinoma. Otsuji E, et al. **Br J Cancer** 1997;75(8):1219–23

Esophagogastrectomy producing an unusual appearance on lung imaging. Religioso DG, et al. **Clin Nucl Med** 1996 Aug;21(8):651–3

Pentadecapeptide BPC 157, cimetidine, ranitidine, bromocriptine, and atropine effect in cysteamine lesions in totally gastrectromized rats: a model for cytoprotective studies. Sikirić P, et al. **Dig Dis Sci** 1997 May;42(5):1029–37

Dieulafoy's ulcer: combined endoscopic and laparoscopic treatment. Bouillot JL, et al. **Endoscopy** 1996 May; 28(4):394–5

Balloon dilation of the papilla via a forward-viewing endoscope: an aid to therapeutic endoscopic retrograde cholangiopancreatography in patients with Billroth-II gastrectomy. Dickey W, et al. **Endoscopy** 1996 Aug; 28(6):531–2

Endoscopic access to the papilla of Vater for endoscopic retrograde cholangiopancreatography in patients with billroth II or Roux-en-Y gastrojejunostomy. Hintze RE, et al. **Endoscopy** 1997 Feb;29(2):69–73

Endoscopic sphincterotomy using an S-shaped sphincterotome in patients with a Billroth II or Roux-en-Y gastrojejunostomy. Hintze RE, et al. **Endoscopy** 1997 Feb; 29(2):74–8

Endoscopic retrograde cholangiopancreatography and needle-knife sphincterotomy in patients with Billroth II gastrectomy: a comparative study of the forward-viewing endoscope and the side-viewing duodenoscope. Kim MH, et al. **Endoscopy** 1997 Feb;29(2):82–5

Endoscopic sphincteroclasy: a useful therapeutic tool for biliary endoscopy in Billroth II gastrectomy patients. Prat F, et al. **Endoscopy** 1997 Feb;29(2):79–81

Postoperative ischemic jejunal stenosis treated with balloon catheter dilation and Wallstent implantation. Solt J, et al. **Endoscopy** 1997 Jun;29(5):409–12

Leakage of intrathoracic oesophagovisceral anastomoses in adenocarcinoma of the gastric cardia: changes in serial APACHE II scores and their prognostic significance. Fahn HJ, et al. **Eur J Surg** 1997 May;163(5):345–50

Measurement of pancreatic blood flow to prevent pancreatic juice leakage after pancreas-preserving total gastrectomy for gastric cancer. Konno H, et al. **Eur Surg Res** 1997; 29(4):287–91

Indicative value of carcinoembryonic antigen (CEA) for liver recurrence following curative resection of stage II and III gastric cancer. Ikeda Y, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1281–7

Emptying of the jejunal pouch as a gastric substitute after total gastrectomy for cancer. Nakane Y, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):901–6

Technical devices in jejunal pouch reconstruction following total gastrectomy, including postoperative results. Takeshita K, et al. **Hepatogastroenterology** 1997 Mar–Apr; 44(14):588–98

Jejunal pouch length influences metabolism after total gastrectomy. Tanaka T, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):891–6

The value of prophylactic R2 lymph node dissection for gastric cancer. Ikeda Y, et al. **Int Surg** 1995 Jul–Sep; 80(3):208–10

Gallstones and gallbladder disorder after gastrectomy for gastric cancer. Kodama I, et al. **Int Surg** 1996 Jan–Mar; 81(1):36–9

Morbidity after D2 and D3 gastrectomy for node-positive gastric carcinoma. Adachi Y, et al. **J Am Coll Surg** 1997 Mar;184(3):240–4

Curative gastrectomy [letter; comment] Boba A. **J Am Coll Surg** 1997 Jun;184(6):670. Comment on: J Am Coll Surg 1996 Sep;183(3):201–7.

The gastric pump [letter; comment] Frankel LA. **J Am Coll Surg** 1997 Apr;184(4):435–6. Comment on: J Am Coll Surg 1996 Sep;183(3):243–8.

Gastrectomy with combined resection of other organs for carcinoma of the stomach with invasion to adjacent organs: clinical efficacy in a retrospective study. Kodama I, et al. **J Am Coll Surg** 1997 Jan;184(1):16–22

A modified stapling technique for esophagojejunostomy after total or proximal gastrectomy. Matsushita K, et al. **J Am Coll Surg** 1997 May;184(5):513–7

Efficacy of amino acid infusion for improving protein metabolism after surgery: a prospective randomized study in patients undergoing subtotal gastrectomy. Mimura Y, et al. **J Am Coll Surg** 1997 Aug;185(2):163–71

Gastrojejunal reconstruction after subtotal gastrectomy using stapler devices. Personal technique. Palaia R, et al. **J Chemother** 1997 Apr;9(2):153–4

Increased catabolism of 25-hydroxyvitamin D in patients with partial gastrectomy and elevated 1,25-dihydroxyvitamin D levels. Implications for metabolic bone disease. Davies M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):209–12

Carcinoma of stomach complicating pregnancy. Lo SS, et al. **J Clin Gastroenterol** 1996 Dec;23(4):299–300

Reconstruction after total gastrectomy: what is preferred technique? [editorial] Lawrence W Jr. **J Surg Oncol** 1996 Dec;63(4):215–20 (10 ref.)

Patterns of failure and long-term results in high-risk resected gastric cancer treated with postoperative radiotherapy with or without intraoperative electron boost. Martínez-Monge R, et al. **J Surg Oncol** 1997 Sep;66(1):24–9

Ultrastructural changes in the small bowel epithelium after total gastrectomy. Banasiewicz T, et al. **Pol J Pathol** 1997; 48(1):25–9

Oesophageal squamous cell carcinoma after gastrectomy for benign ulcer disease. Hsu NY, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(1):29–33

Monocyte function associated with intermittent lentinan therapy after resection of gastric cancer. Takeshita K, et al. **Surg Oncol** 1996 Feb;5(1):23–8

An adult case of duodenal anomaly. Dousei T, et al. **Surg Today** 1997;27(8):749–52

Malignant lymphoma of the gastric stump developing 25 years after a distal gastrectomy for benign gastric disease: report of a case. Kondo K, et al. **Surg Today** 1996; 26(10):803–6

Jejunal pouch and interposition reconstruction after total gastrectomy for cancer. Nakane Y, et al. **Surg Today** 1997; 27(8):696–701

Chronological changes in bone mineral content following gastrectomy. Nihei Z, et al. **Surg Today** 1996;26(2):95–100

Total gastrectomy for primary gastric lymphoma at stages IE and IIE: a prospective study of fifty cases. Sano T, et al. **Surgery** 1997 May;121(5):501–5

Lack of benefit of combined pancreaticosplenectomy in D2 resection for proximal-third gastric carcinoma. Kodera Y, et al. **World J Surg** 1997 Jul–Aug;21(6):622–7; discussion 627–8

Duodenal but not gastric transection disturbs motility of the sphincter of Oddi in the dog. Shibata C, et al. **World J Surg** 1997 Feb;21(2):191–4

Laparoscopy-assisted radical subtotal gastrectomy for early gastric carcinoma. Choi SH, et al. **Yonsei Med J** 1996 Jun; 37(3):174–80

[Changes in coagulation physiology and rheology after preoperative normovolemic hemodilution] Hensel M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):481–7 (Eng. Abstr.) **(Ger)**

[Results of surgical therapy of stomach carcinoma in the elderly] Jentschura D, et al. **Chirurg** 1997 May;68(5):503–8 (Eng. Abstr.) **(Ger)**

[Simultaneous long-term measurement of duodenogastric reflux and gastroduodenal motility] Thomas H, et al. **Chirurg** 1997 Jun;68(6):618–23 (Eng. Abstr.) **(Ger)**

[66-year-old man with an unusual anastomosis ulcer after Billroth II stomach resection] Baniewicz W, et al. **Internist (Berl)** 1997 Mar;38(3):255–8 **(Ger)**

[Enteral administration of bovine colostrum reduces perioperative endotoxinemia--a controlled randomized study] Bölke E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:667–71 (Eng. Abstr.) **(Ger)**

[Value of splenectomy in resection of stomach carcinoma] Wenger FA, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:797–9 (Eng. Abstr.) **(Ger)**

[Multiple bone pain, significant weight loss, multiple enhanced uptake in bone scintigraphy and massively increased alkaline phosphatase in a patient after stomach resection 27 years previously (clinical conference)] Rzepka AH, et al. **Med Klin** 1996 Feb 15;91(2):72–5 **(Ger)**

[Is splenectomy "en principe" necessary for radical gastrectomy with systematic lymphadenectomy?] Nürnberger HR, et al. **Zentralbl Chir** 1996;121(2):144–7 (Eng. Abstr.) **(Ger)**

[Total parenteral nutrition in digestive tract surgery: authors' experience] Braccioni U, et al. **G Chir** 1996 Aug–Sep; 17(8–9):435–6 **(Ita)**

[Family anamnesis, cholecystectomy and gastric resection in patients with colorectal carcinoma: a case-control study] Civitelli S, et al. **Minerva Chir** 1996 Dec;51(12):1089–94 (Eng. Abstr.) **(Ita)**

[Evaluation of clinical trials on adjuvant chemotherapy for curatively resected gastric cancer] Kitamura M, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1221–9 (Eng. Abstr.) **(Jpn)**

[Liver resection in a case of multiple liver metastases of gastric cancer following hepatic arterial infusion chemotherapy] Kobayashi T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(10):1321–4 (Eng. Abstr.) **(Jpn)**

[A case of postbulbar duodenal ulcer due to adjuvant chemotherapy after gastrectomy for gastric cancer] Saito A, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):1019–22 (Eng. Abstr.) **(Jpn)**

[A case of far-advanced gastric cancer treated with neoadjuvant combination chemotherapy of UFT, low-dose CDDP and leucovorin, followed by subtotal gastrectomy with curative intent] Yamamoto S, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1157–60 (Eng. Abstr.) **(Jpn)**

[Portal and peripheral blood insulin concentrations and arterial ketone body ratio before and after glucose infusion during gastrectomy] Hayakawa J, et al. **Masui** 1996 Feb; 45(2):173–7 (Eng. Abstr.) **(Jpn)**

[Anesthetic management of a patient complicated with restrictive cardiomyopathy for gastrectomy] Nishida T, et al. **Masui** 1996 Oct;45(10):1265–8 (Eng. Abstr.) **(Jpn)**

[Changes of urinary ulinastatin and serum CRP after elective surgery for gastric cancer] Ueki M, et al. **Masui** 1996 Aug; 45(8):933–6 (Eng. Abstr.) **(Jpn)**

[A new reconstructive procedure, interposition of a jejunal pouch after proximal gastrectomy] Kameyama J, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):555–9 (Eng. Abstr.) **(Jpn)**

[A device in reconstruction method after distal subtotal gastrectomy: special reference to double tract method with jejunal pouch] Matsumoto K, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):565–70 (Eng. Abstr.) **(Jpn)**

[Jejunal pouch interposition and distal gastrectomy] Miwa K, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):560–4 (Eng. Abstr.) **(Jpn)**

[Pedicle transplantation of a transverse colon segment after total gastrectomy] Nagamachi Y. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):542–8 (Eng. Abstr.) **(Jpn)**

[Jejunal pouch and interposition reconstruction after a total gastrectomy for cancer] Nakane Y, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):532–6 (Eng. Abstr.) **(Jpn)**

[Jejunal pouch interposition after total gastrectomy] Otani Y, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):537–41 (Eng. Abstr.) **(Jpn)**

[Evaluation of ileocolon interposition after total gastrectomy] Shibata J, et al. **Nippon Geka Gakkai Zasshi** 1997 Jun; 98(6):549–54 (Eng. Abstr.) **(Jpn)**

[Reconstruction after gastrectomy] Uchida Y. **Nippon Geka Gakkai Zasshi** 1997 Jun;98(6):529–31 **(Jpn)**

[Synchronous multiple early gastric cancer; study of surgically resected stomach] Iwafuchi M, et al. **Nippon Rinsho** 1996 May;54(5):1217–23 (Eng. Abstr.) **(Jpn)**

[Palliative total gastrectomy] Andronescu P, et al. **Chirurgia (Bucur)** 1996 May–Jun;45(3):97–100 (Eng. Abstr.) **(Rum)**

[Nonepithelial tumors of the stomach] Petrov VP, et al. **Khirurgiia (Mosk)** 1997;(3):25–8 (Eng. Abstr.) **(Rus)**

[A comparative analysis of the rheographic indices of the pancreatic blood flow in patients who have undergone a subtotal gastric resection and gastrectomy] Kursov SV. **Lik Sprava** 1997 Mar–Apr;(2):34–7 (Eng. Abstr.) **(Rus)**

[Gastric resection in peritonitis combined with 4 peptic ulcer complications] Bogomolov NI. **Vestn Khir Im I I Grek** 1997;156(2):115–6 **(Rus)**

[Endoscopic and immunomorphological changes in the mucosa of the operated stomach] Poluéktov VL, et al. **Vestn Khir Im I I Grek** 1996;155(2):15–7 (Eng. Abstr.) **(Rus)**

[Physico-chemical properties of pulmonary surfactant after gastrectomy and cholecystectomy] Kaiumov TKh, et al. **Vopr Med Khim** 1996 Jul-Sep;42(3):245-8 (Eng. Abstr.) **(Rus)**

[Method of primary jejunogastroplasty after gastrectomy and subtotal resection of the distal stomach for cancer] Zherlov GK, et al. **Vopr Onkol** 1997;43(2):218-21 (Eng. Abstr.) **(Rus)**

[Resection of the stomach in surgery of peptic ulcer] Sheremet PF, et al. **Klin Khir** 1996;(8):54 **(Ukr)**

ADVERSE EFFECTS

The effect of intravenous erythromycin on solid meal gastric emptying in patients with chronic symptomatic post-vagotomy-antrectomy gastroparesis. Kendall BJ, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):381-5

Esophageal reflux after total or proximal gastrectomy in patients with adenocarcinoma of the gastric cardia. Hsu CP, et al. **Am J Gastroenterol** 1997 Aug;92(8):1347-50

Afferent loop syndrome complicated by a duodenal phytobezoar after Billroth-II subtotal gastrectomy. Hui MS, et al. **Am J Gastroenterol** 1997 Sep;92(9):1550-2

Reflux esophagitis after total gastrectomy with jejunal pouch reconstruction: comparison of long and short pouches. Tanaka T, et al. **Am J Gastroenterol** 1997 May;92(5):821-4

Dermatitis herpetiformis following gastric surgery [letter] Kovaleski CR, et al. **Arch Dermatol** 1997 Jan;133(1):113-4

Acute pancreatitis complicating polya gastrectomy [letter; comment] McCutcheon AD. **Arch Surg** 1997 Apr; 132(4):452. Comment on: Arch Surg 1996 May;131(5):561-5.

Reflux esophagitis after proximal subtotal gastrectomy. Wang CY, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jun; 59(6):348-53

Foveolar hyperplasia following partial gastrectomy results from expansion of surface mucous cell compartment. Ray GS, et al. **Dig Dis Sci** 1996 Oct;41(10):2016-24

Small bowel bacterial overgrowth in patients after total gastrectomy. Brägelmann R, et al. **Eur J Clin Invest** 1997 May;27(5):409-16

Helicobacter pylori infection after partial gastrectomy for peptic ulcer and its role in relapsing disease. Leivonen MK, et al. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):371-4

Osteopenia following total gastrectomy in the rat--state of mineral metabolism and bone histomorphometry. Rümenapf G, et al. **Eur Surg Res** 1997;29(3):209-21

Enhanced levels of biochemical markers for cobalamin deficiency in totally gastrectomized rats: uncoupling of the enhancement from the severity of spongy vacuolation in spinal cord. Scalabrino G, et al. **Exp Neurol** 1997 Apr; 144(2):258-65

Stomal ulcer after gastric restrictive operations [editorial; comment] Griffen WO Jr. **J Am Coll Surg** 1997 Jul; 185(1):87-8. Comment on: J Am Coll Surg 1997 Jul;185(1):1-7.

Nutrient malassimilation following total gastrectomy. Brägelmann R, et al. **Scand J Gastroenterol Suppl** 1996; 218:26-33

[Stents for the palliative treatment of malignant gastric outlet stenoses] Januschowski R. **Dtsch Med Wochenschr** 1997 May 2;122(18):578-82 (Eng. Abstr.) **(Ger)**

[Postoperative fistulas after gastrectomy: risk factors in relation to incidence and mortality] Degiuli M, et al. **Minerva Chir** 1996 May;51(5):255-64 (Eng. Abstr.) **(Ita)**

[Effect of FUT-187, oral serine protease inhibitor, on inflammation in the gastric remnant] Shiozaki H, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1971-9 (Eng. Abstr.) **(Jpn)**

[Acute pancreatitis as a distant complication of partial gastrectomy by the Billroth II method] Karaś J, et al. **Przegl Lek** 1996;53(3):188-9 (Eng. Abstr.) **(Pol)**

[Biliary gastritis after partial gastrectomy by the Maki method] Kłęba T. **Wiad Lek** 1994 Nov-Dec; 47(21-24):831-5 (Eng. Abstr.) **(Pol)**

[Development of acute pancreatitis after gastrectomy in gastric cancer] Vinnik IuA. **Klin Khir** 1996;(6):35-7 **(Rus)**

[Early gastric cancer in the remnant stomach. Case report] Castro D, et al. **G E N** 1995 Oct-Dec;49(4):314-6 (Eng. Abstr.) **(Spa)**

ECONOMICS

[Cost savings by disinfection for prevention of surgical wound dehiscence after gastrectomy] Schardey HM, et al. **Chirurg** 1997 Apr;68(4):416-24 (Eng. Abstr.) **(Ger)**

[A new model for economic studies of therapies exemplified by postoperative parenteral nutrition] Frei A, et al. **Zentralbl Chir** 1997;122(5):358-65; discussion 366 (Eng. Abstr.) **(Ger)**

HISTORY

The first Billroth II gastric resection as reported by an Italian medical journal. Aldini NN. **Gesnerus** 1995;52(3-4):290-302

History of reconstruction after total gastrectomy. Catarci M, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):73-81

METHODS

Functional results after total gastrectomy with enteric pouch reconstruction. A review of 34 cases. Michielsen D, et al. **Acta Chir Belg** 1996 Jul-Aug;96(4):155-7

Reflux esophagitis after total gastrectomy with jejunal pouch reconstruction: comparison of long and short pouches. Tanaka T, et al. **Am J Gastroenterol** 1997 May;92(5):821-4

Preservation of normal gastric emptying following gastric surgery by use of a muscle bridge. Anvari M, et al. **Am J Surg** 1996 Oct;172(4):345-9

Gastric cancer: surgical management and prognosis. Arak A, et al. **Ann Chir Gynaecol** 1996;85(4):293-8

Proximal gastric cancers resected via a transabdominal-only approach. Results and comparisons to distal adenocarcinoma of the stomach. Harrison LE, et al. **Ann Surg** 1997 Jun;225(6):678-83; discussion 683-5

Ileocecal interpositional graft as gastric replacement after total gastrectomy and distal esophagectomy. von Flüe M, et al. **Arch Surg** 1997 Sep;132(9):1038-42

Positive proximal resection margins after resection for carcinoma of the oesophagus and stomach: effect on survival and symptom recurrence. Gall CA, et al. **Aust N Z J Surg** 1996 Nov;66(11):734-7

Decision-making in surgery: the management of gastric carcinoma. Huang J, et al. **Br J Hosp Med** 1997 May 21-Jun 3;57(10):502-4

Oral erythromycin improves gastrointestinal motility and transit after subtotal but not total gastrectomy for cancer. Altomare DF, et al. **Br J Surg** 1997 Jul;84(7):1017-21

Impact of splenectomy on circulating immunoglobulin levels and the development of postoperative infection following total gastrectomy for gastric cancer. Fujita T, et al. **Br J Surg** 1996 Dec;83(12):1776-8

Conversion operation for alkaline reflux after total gastrectomy and Schloffer reconstruction [letter; comment] Grabham JA, et al. **Br J Surg** 1996 Oct;83(10):1482; discussion 1483. Comment on: Br J Surg 1996 Feb;83(2):270-1.

Conversion operation for alkaline reflux after total gastrectomy and Schloffer reconstruction [letter; comment] Kiss J, et al. **Br J Surg** 1996 Oct;83(10):1482-3. Comment on: Br J Surg 1996 Feb;83(2):270-1.

Food intake after gastrectomy for gastric carcinoma: the role of a gastric reservoir. Liedman B, et al. **Br J Surg** 1996 Aug;83(8):1138-43

Benefits of D2 lymph node dissection for patients with gastric cancer and pN0 and pN1 lymph node metastases [letter; comment] Noguchi M. **Br J Surg** 1997 Jul;84(7):1032-3. Comment on: Br J Surg 1996 Aug;83(8):1144-7.

D2 gastrectomy: lessons from a prospective audit of the learning curve. Parikh D, et al. **Br J Surg** 1996 Nov; 83(11):1595-9

Amylase concentration of drainage fluid after total gastrectomy. Sano T, et al. **Br J Surg** 1997 Sep;84(9):1310-2

Restorative caecogastroplasty reconstruction after pylorus-preserving near-total gastrectomy: a preliminary study. Uras C, et al. **Br J Surg** 1997 Mar;84(3):406-9

Endoscopy-assisted laparoscopic resection of the gastric wall facilitated by a double-lifting method. Altorjay A, et al. **Endoscopy** 1997 Mar;29(3):227

Therapeutic strategies for early gastric cancer. Sowa M, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:18-28 (10 ref.)

A new approach to sphincterotomy in patients with Billroth II gastrectomy. Al-Kawas FH, et al. **Gastrointest Endosc** 1996 Mar;43(3):253-5 (8 ref.)

Surgical treatment of gastric cancer detected by mass screening. Hanazaki K, et al. **Hepatogastroenterology** 1997 Jul-Aug;44(16):1126-32

Quality-of-life after curative surgery for gastric cancer: a comparison between total gastrectomy and subtotal gastric resection. Jentschura D, et al. **Hepatogastroenterology** 1997 Jul-Aug;44(16):1137-42

Short segment of left colon substitution following proximal gastrectomy. Ohwada S, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1256-9

Stomal ulcer after gastric restrictive operations [editorial; comment] Griffen WO Jr. **J Am Coll Surg** 1997 Jul; 185(1):87-8. Comment on: J Am Coll Surg 1997 Jul;185(1):1-7.

Optimal surgical strategy for potentially curable serosa-involved gastric carcinoma with intraperitoneal free cancer cells. Wu CC, et al. **J Am Coll Surg** 1997 Jun; 184(6):611-7

Laparoscopic Billroth-II gastrectomy. Ablassmaier B, et al. **J Laparoendosc Surg** 1996 Oct;6(5):319-24

Resection of Dieulafoy's lesion by a combined endoscopic and laparoscopic approach. Karanfilian RG, et al. **J Laparoendosc Surg** 1996 Oct;6(5):345-8

A prospective randomized study comparing stapled with handsewn oesophagogastric anastomoses. Craig SR, et al. **J R Coll Surg Edinb** 1996 Feb;41(1):17-9

N-nitroso compounds in the gastric juice of normal controls, patients with partial gastrectomies, and gastric cancer patients. Guadagni S, et al. **J Surg Oncol** 1996 Dec; 63(4):226-33

Spleen- and pancreas-preserving total gastrectomy with superextended lymphadenectomy including dissection of the para-aortic lymph nodes for gastric cancer. Uyama I, et al. **J Surg Oncol** 1996 Dec;63(4):268-70

Survival benefit of extended D2 resection for proximal gastric cancer. Volpe CM, et al. **J Surg Oncol** 1997 Mar; 64(3):231-6

Management of early gastric cancer in Japan [letter] Reid I. **Jpn J Clin Oncol** 1997 Apr;27(2):119

Comparison of acid reduction in antiulcer operations. Brody FJ, et al. **Surg Endosc** 1997 Feb;11(2):123-5

Early international results of laparoscopic gastrectomies. Goh PM, et al. **Surg Endosc** 1997 Jun;11(6):650-2

Experimental study of laparoscopic gastrectomy: intracorporeal Billroth I gastroduodenostomy. Moriya H, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):32-7

Laparoscopic pylorus-preserving gastrectomy with intracorporeal hand-sewn anastomosis. Taniguchi S, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):354-6

Adenocarcinoma of the gastric antrum: does D2 total gastrectomy with splenectomy improve prognosis compared to D1 subtotal gastrectomy? A long-term survival analysis with emphasis on Lauren classification. Roukos D, et al. **Surg Oncol** 1995;4(6):323-32

Cyclic motor activity of the gallbladder maintained in a pylorus-preserving gastrectomy in dogs. Enjoji A, et al. **Surg Today** 1996;26(7):489-95

Radical esophagogastrectomy for unshuntable extrahepatic portal hypertension with bleeding varices: report of a case. Hirao T, et al. **Surg Today** 1997;27(3):243-6

Surgery for gastric cancer in patients with cirrhosis. Isozaki H, et al. **Surg Today** 1997;27(1):17-21

Proximal gastrectomy and jejunal pouch interposition for the treatment of early cancer in the upper third of the stomach: surgical techniques and evaluation of postoperative function. Takeshita K, et al. **Surgery** 1997 Mar; 121(3):278-86

Changes in body composition after gastrectomy: results of a controlled, prospective clinical trial. Liedman B, et al. **World J Surg** 1997 May;21(4):416-20; discussion 420-1

Quality of life after gastrectomy for gastric carcinoma: controlled study of reconstructive procedures. Svedlund J, et al. **World J Surg** 1997 May;21(4):422-33

Surgical management of gastric leiomyosarcoma: evaluation of the propriety of laparoscopic wedge resection. Yoshida M, et al. **World J Surg** 1997 May;21(4):440-3

[Evaluation of surgical resection for gastric cancer extending to adjacent organs] Zhang X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct;33(10):603-5 (Eng. Abstr.) **(Chi)**

[Postoperative recurrent ulcer after gastric resection--results of surgical treatment] Hölscher AH, et al. **Chirurg** 1996 Aug;67(8):814-20 (Eng. Abstr.) **(Ger)**

[Gastrectomy with radical lymphadenectomy--standard therapy of adenocarcinoma of the stomach] Thybusch A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:173-5 (Eng. Abstr.) **(Ger)**

[MALT-lymphoma--surgical therapy] Verreet PR. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1451-4 (53 ref.) (Eng. Abstr.) **(Ger)**

[Management of postoperative ischemic jejunal stenosis using balloon dilatation and/or Wallstent implant] Solt J, et al. **Orv Hetil** 1997 Apr 27;138(17):1059-64 (Eng. Abstr.) **(Hun)**

[Critical evaluation of the reconstruction of the intestinal continuity after total gastrectomy by the Moricca technique] Miani S, et al. **Minerva Chir** 1996 Jul-Aug; 51(7-8):519-25 (Eng. Abstr.) **(Ita)**

[Gastric lymphomas in old age] Pannella A, et al. **Minerva Chir** 1996 Jul-Aug;51(7-8):527-31 (10 ref.) (Eng. Abstr.) **(Ita)**

[Laparoscopic surgery for early gastric cancer--its advantage and pitfall] Ohgami M, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):532-7 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Endoscopic mucosal resection for early gastric cancer] Hamada T, et al. **Nippon Rinsho** 1996 May;54(5):1292-7 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Surgical treatment of postbulbar duodenal ulcers] Posmelov VS, et al. **Khirurgiia (Mosk)** 1997;(5):4-9 (Eng. Abstr.) **(Rus)**

[The results of using different variants of esophago-intestinal anastomoses in gastrectomy] Kariakin AM, et al. **Vestn Khir Im I I Grek** 1997;156(2):27-9 (Eng. Abstr.) **(Rus)**

[The causes of incompetence of the duodenal stump and gastroenteric anastomosis and the means for its prevention in the surgery of duodenal ulcers] Khadzhibaev AM, et al. **Vestn Khir Im I I Grek** 1996;155(4):57-9 (Eng. Abstr.) **(Rus)**

[A new method for esophagoenteral anastomosis in gastrectomy] Makhov GA, et al. **Vestn Khir Im I I Grek** 1996;155(2):86-7 **(Rus)**

[A comparative analysis of transverse and longitudinal gastrojejunostomies in the late period after a Bilroth-II gastric resection] Podoluzhnyĭ VI, et al. **Vestn Khir Im I I Grek** 1996;155(2):18-9 (Eng. Abstr.) **(Rus)**

[A method for gastric resection in duodenal peptic ulcer] Prazdnikov EN, et al. **Vestn Khir Im I I Grek** 1996; 155(3):55-7 **(Rus)**

[The choice of the method for the surgical treatment of duodenal ulcer] Krylov NL, et al. **Voen Med Zh** 1996 Nov; 317(11):23-5 **(Rus)**

MORTALITY

The significance of ulcer disease on late mortality after partial gastric resection [see comments] Staël von Holstein C, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):33-40. Comment in: Eur J Gastroenterol Hepatol 1997 Jan;9(1):13-4.

Long-term survival after gastrectomy for advanced bleeding or perforated gastric carcinoma. Gertsch P, et al.

Eur J Surg 1996 Sep;162(9):723–7

Influence of age, comorbidity, type of operation and other variables on lethality and duration of post-operative hospital stay in patients with peptic ulcer. An analysis of 303 surgically treated patients. Högel J, et al. **Langenbecks Arch Chir** 1996;381(4):201–6

Causes of death and recurrence after surgery for early gastric cancer. Guadagni S, et al. **World J Surg** 1997 May; 21(4):434–9

[Geriatric surgery in stomach carcinoma—resection as therapy of choice] Jähne J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:486–8 (Eng. Abstr.) **(Ger)**

[Geriatric surgery—stomach carcinoma in patients older than 70] Mönig SP, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:483–5 (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Quality of life in gastric cancer prior to gastrectomy. Svedlund J, et al. **Qual Life Res** 1996 Apr;5(2):255–64

REHABILITATION

[Quality of life and digestive tract function examination: double tract method] Hirai N, et al. **J Smooth Muscle Res** 1995 Dec;31(6):379–81 **(Jpn)**

[Experience with the early health resort rehabilitation of patients who have undergone a surgical intervention for peptic ulcer] Sapa AI, et al. **Lik Sprava** 1996 Jul–Sep; (7–9):118–21 (Eng. Abstr.) **(Rus)**

TRENDS

Time trends in diagnostic strategy, treatment, and prognosis of gastric cancer in the elderly: a population based study. Benhamiche AM, et al. **Eur J Cancer Prev** 1997 Feb; 6(1):71–7

Surgical treatment of peptic ulcer disease: changing patterns in the past 40 years. Chen CN, et al. **J Formos Med Assoc** 1996 Sep;95(9):675–9

VETERINARY

Long-term survival after total gastrectomy for gastric adenocarcinoma in a dog. Sellon RK, et al. **J Vet Intern Med** 1996 Sep–Oct;10(5):333–5

GASTRIC ACID

see related

ACHLORHYDRIA

Mechanisms of acid clearance in reflux patients [letter; comment] Anggiansah A, et al. **Am J Gastroenterol** 1997 Jul;92(7):1237–8. Comment on: Am J Gastroenterol 1996 Sep;91(9):1739–44.

Continuous intragastric pH monitoring in the evaluation of ebrotidine, cimetidine and placebo on gastric acidity in healthy volunteers. Muñoz-Navas M, et al. **Arzneimittelforschung** 1997 Apr;47(4A):539–44

Gastric tubes, meals, acid, and analysis: rise and decline. Rosenfeld L. **Clin Chem** 1997 May;43(5):837–42

Gastric acid, acid-suppressing drugs, and bacterial gastroenteritis: how much of a risk? Garcia Rodríguez LA, et al. **Epidemiology** 1997 Sep;8(5):571–4

Oesophageal sensitivity to acid in patients with non-cardiac chest pain: is the oesophagus hypersensitive? Galmiche JP, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1152–9 (60 ref.)

Etiology of dental erosion—intrinsic factors. Scheutzel P. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 2)):178–90 (76 ref.)

In vitro effects of simulated gastric juice on swallowed metal objects: implications for practical management. Li PK, et al. **Gastrointest Endosc** 1997 Aug;46(2):152–5

Oesophageal hypersensitivity [letter; comment] Borovicka J, et al. **Gut** 1996 Jul;39(1):147–8. Comment on: Gut 1995 Oct;37(4):457–64.

Effects of cisapride on abnormally prolonged endogastric alkalinity time and delayed gastric emptying in cirrhotic patients. Pimpo MT, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1678–84

Diurnal variation in intragastric pH in children with and without peptic ulcers. Nagita A, et al. **Pediatr Res** 1996 Oct;40(4):528–32

Current Perspectives in Acid Inhibitory Therapy. New Haven, Connecticut, November 17–19, 1995. Proceedings of a conference. **Yale J Biol Med** 1996 Jan–Feb;69(1):1–104

ANALYSIS see GASTRIC ACIDITY DETERMINATION

CHEMISTRY

Relationship between acid neutralization capacity of saliva and gastro-oesophageal reflux. Bouchoucha M, et al. **Arch Physiol Biochem** 1997 Feb;105(1):19–26

Characterization of acid and alkaline reflux in patients with Barrett's esophagus. G.O.S.P.E. Operative Group for the study of Esophageal Precancer. D'Onofrio V, et al. **Dis Esophagus** 1997 Jan;10(1):16–22; discussion 22–3

Optimizing the intragastric pH as a supportive therapy in upper GI bleeding. Brunner G, et al. **Yale J Biol Med** 1996 May–Jun;69(3):225–31

METABOLISM

Pharmacokinetic evaluation of omeprazole suspension following oral administration in rats: effect of neutralization of gastric acid. Watanabe K, et al. **Acta Med Okayama** 1996 Aug;50(4):219–22

Twenty-four-hour intragastric pH profiles and pharmacokinetics following single and repeated oral administration of the proton pump inhibitor pantoprazole in comparison to omeprazole. Hartmann M, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):359–66

The effect of indomethacin-induced gastric mucosal injury on 24-h intragastric acidity and plasma gastrin concentration in healthy volunteers. Rademaker JW, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):625–31

The effects of omeprazole 20 and 40 mg twice daily on intragastric acidity in duodenal ulcer patients. Savarino V, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):367–72

An oral sodium citrate-citric acid non-particulate buffer in humans. Hauptfleisch JJ, et al. **Br J Anaesth** 1996 Nov; 77(5):642–4

Microinfusion of corticotropin-releasing factor into the locus coeruleus/subcoeruleus nuclei inhibits gastric acid secretion via spinal pathways in the rat. Mönnikes H, et al. **Brain Res** 1996 Jul 29;728(2):157–65

Inhibiting acid and Helicobacter pylori? [comment] Healey Z, et al. **Gut** 1997 Jul;41(1):125–6. Comment on: Gut 1997 Jul;41(1):33–6.

Effect of curing Helicobacter pylori infection on intragastric acidity during treatment with ranitidine in patients with duodenal ulcer [see comments] Labenz J, et al. **Gut** 1997 Jul;41(1):33–6. Comment in: Gut 1997 Jul;41(1):125–6.

Role of endogenous acid in gastric mucosal injury induced by local ischemia-reperfusion in the rat. Seno K, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S108–12

Do non-steroidal anti-inflammatory drugs cause duodenal ulcer? Evaluation of basal acid output and ulcer complications. Collen MJ, et al. **J Gastroenterol Hepatol** 1996 Jun;11(6):520–3

Increases in gastric acidity in response to electroacupuncture stimulation of the hindlimb of anesthetized rats. Noguchi E, et al. **Jpn J Physiol** 1996 Feb;46(1):53–8

Characterization of somatostatin receptor subtypes mediating inhibition of nutrient-stimulated gastric acid and gastrin in dogs. Fung LC, et al. **Regul Pept** 1997 Feb 26; 68(3):197–203

PHYSIOLOGY

The pathogenesis of gastroesophageal reflux disease: the relationship between epithelial defense, dysmotility, and acid exposure. Orlando RC. **Am J Gastroenterol** 1997 Apr; 92(4 Suppl):3S–5S; discussion 5S–7S (12 ref.)

Helicobacter pylori survival in gastric mucosa by generation of a pH gradient. Chen G, et al. **Biophys J** 1997 Aug; 73(2):1081–8

Duodenogastric reflux causes growth stimulation of foregut mucosa potentiated by gastric acid blockade. Wetscher GJ, et al. **Dig Dis Sci** 1996 Nov;41(11):2166–73

Control of preprogastrin messenger RNA translation by gastric acid in the rat. Bate GW, et al. **Gastroenterology** 1996 Nov;111(5):1224–9

Regulation by gastric acid of the processing of progastrin-derived peptides in rat antral mucosa. Macro JA, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):409–19

The indomethacin-induced gastric mucosal damage in rats. Effect of gastric acid, acid inhibition, capsaicin-type agents and prostacyclin. Abdel Salam OM, et al. **J Physiol Paris** 1997 Feb;91(1):7–19

Progressive gastric intramucosal acidosis follows resuscitation from hemorrhagic shock. Oud L, et al. **Shock** 1996 Jul;6(1):61–5

[Effects of menstrual cycle on the lower esophageal sphincter and esophageal exposure to acid] Díaz-Rubio García M. **An R Acad Nac Med (Madr)** 1997;114(1):49–54 **(Spa)**

SECRETION

The effects of variously performed vagotomies on gastric secretion and gastric emptying in rats. Alhan E, et al. **Acta Chir Hung** 1995–96;35(3–4):277–84

The enigma of pyloric stenosis. Some thoughts on the aetiology. Rogers IM. **Acta Paediatr** 1997 Jan;86(1):6–9 (30 ref.)

The fade of gastrin-stimulated gastric acid secretion in the rat is due to depletion of releasable mucosal histamine. Rønning K, et al. **Acta Physiol Scand** 1996 Aug; 157(4):487–91

Effect of inhibition of pentagastrin-stimulated acid secretion on gastric mucosal gland luminal pressure. Synnerstad I, et al. **Acta Physiol Scand** 1997 May;160(1):103–11

Action of ethanol and some alcoholic beverages on gastric acid secretion in anaesthetized rats. Teyssen S, et al. **Alcohol Alcohol** 1997 Jan–Feb;32(1):23–31

Antral gastrin cell hyperfunction and Helicobacter pylori infection. Annibale B, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):607–15

In single doses ranitidine effervescent is more effective than lansoprazole in decreasing gastric acidity. Arnestad JS, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):355–8

Time to maximum effect of lansoprazole on gastric pH in normal male volunteers. Bell NJ, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):897–904

Effects of ranitidine bismuth citrate on gastric acid secretion and gastrin release in subjects with and without Helicobacter pylori infection. Ciociola AA, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):905–12

Lansoprazole versus omeprazole: influence on meal-stimulated gastric acid secretion. Dammann HG, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):359–64

Morning versus evening dosing of lansoprazole 30 mg daily on twenty-four-hour intragastric acidity in healthy subjects. Fraser AG, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):523–7

Early and late effects of low-dose famotidine, ranitidine or placebo on pentagastrin-stimulated gastric acid secretion in man. Grimley CE, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):743–7

The effects of acid inhibitors on gastric mucus [letter; comment] Guslandi M. **Aliment Pharmacol Ther** 1996 Aug; 10(4):669–70. Comment on: Aliment Pharmacol Ther 1996 Feb;10(1):105–9. Comment on: Aliment Pharmacol Ther 1996 Feb;10(1):111–7.

Recurrence of duodenal ulcer after Helicobacter pylori eradication is related to high acid output. Harris AW, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):331–4

Morning or evening dosage of omeprazole for gastro-oesophageal reflux disease? [see comments] Hendel J, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):693–7. Comment in: Aliment Pharmacol Ther 1996 Jun;10(3):447–8.

Long-term treatment with lansoprazole of patients with duodenal ulcer and basal acid output of more than 15 mmol/h. Hirschowitz BI, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):497–506

Long-term treatment with lansoprazole for patients with Zollinger-Ellison syndrome. Hirschowitz BI, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):507–22

Twenty-four-hour intragastric acidity: 300 mg ranitidine b.d., 20 mg omeprazole o.m., 40 mg omeprazole o.m. vs. placebo. Houben GM, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):649–54

A comparative study of cisapride and ranitidine at controlling oesophageal acid exposure in erosive oesophagitis. Pouderoux P, et al. **Aliment Pharmacol Ther** 1995 Dec; 9(6):661–6

Effect of dexloxiglumide and spiroglumide, two new CCK-receptor antagonists, on gastric emptying and secretion in the rat: evaluation of their receptor selectivity in vivo. Scarpignato C, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):411–9

Sucrose polyester does not inhibit gastric acid secretion or stimulate cholecystokinin release in men. Maas MI, et al. **Am J Clin Nutr** 1997 Mar;65(3):761–5

Aging, gastric acid secretion, and carotene status [editorial] Solomons NW. **Am J Clin Nutr** 1996 Oct;64(4):648–9

Gastric acidity influences the blood response to a beta-carotene dose in humans [see comments] Tang G, et al. **Am J Clin Nutr** 1996 Oct;64(4):622–6. Comment in: Am J Clin Nutr 1997 Sep;66(3):707.

Nasogastric omeprazole: effects on gastric pH in critically Ill patients. Balaban DH, et al. **Am J Gastroenterol** 1997 Jan;92(1):79–83

Barrett's esophagus: acid suppression, but no regression [editorial; comment] Bozymski EM, et al. **Am J Gastroenterol** 1997 Apr;92(4):556–8. Comment on: Am J Gastroenterol 1997 Apr;92(4):582–5.

Nonencapsulated, intact omeprazole granules effectively suppress intragastric acidity when administered via a gastrostomy. Sharma VK, et al. **Am J Gastroenterol** 1997 May;92(5):848–51

Parietal cell mass, hydrochloric acid secretion, and Helicobacter pylori [letter; comment] Testino G. **Am J Gastroenterol** 1997 Jun;92(6):1070–1. Comment on: Am J Gastroenterol 1996 Oct;91(10):2114–9.

Acid secretion, response to omeprazole, and Helicobacter pylori status [editorial; comment] Treiber G, et al. **Am J Gastroenterol** 1997 Apr;92(4):555–6. Comment on: Am J Gastroenterol 1997 Apr;92(4):576–81.

Parietal cell hyperactivity is not due to Helicobacter pylori infection in patients with duodenal ulcer [see comments] Valenzuela M, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2114–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1070–1.

Role of gastrin/CCK-B receptors in meal-stimulated acid secretion in rats. Aurang K, et al. **Am J Physiol** 1997 May; 272(5 Pt 1):G1243–8

5-HT in DVC: disparate effects on TRH analogue-stimulated gastric acid secretion, motility, and cytoprotection. Chi J, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R368–72

Mechanisms behind changes in gastric acid and bicarbonate outputs during the human interdigestive motility cycle. Dalenbäck J, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G113–22

Glycine-extended gastrin potentiates gastrin-stimulated gastric acid secretion in rats. Higashide S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G220–4

Inhibition of acid secretion by electrical acupuncture is mediated via beta-endorphin and somatostatin. Jin HO, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G524–30

Mechanisms mediating gastric hyperemic and acid responses to central TRH analog at a cytoprotective dose. Király A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G31–8

Inhibition of sham feeding-stimulated acid secretion in dogs by immunoneutralization of gastrin. Kovacs TO, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G399–403

Effect of hyperglycemia on gastric acid secretion during the gastric phase of digestion. Lam WF, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1116–21

Candidate canine enterogastrones: acid inhibition before and after vagotomy. Lloyd KC, et al. **Am J Physiol** 1997 May; 272(5 Pt 1):G1236–42

Inhibitory effect of PYY on vagally stimulated acid secretion is mediated predominantly by Y1 receptors. Lloyd KC, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G123–7

Somatostatin inhibits gastrin release and acid secretion by activating sst2 in dogs. Lloyd KC, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1481–8

Pancreatic spasmolytic polypeptide protects the gastric mucosa but does not inhibit acid secretion or motility. McKenzie C, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G112–7

Role of vagus nerves and gastrin in the gastric phase of acid secretion in male anesthetized rats. Noto T, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G335–9

A new device for monitoring gastric pH in free–ranging animals. Peters G. **Am J Physiol** 1997 Sep;273(3 Pt 1):G748–53

Human spasmolytic polypeptide decreases proton permeation through gastric mucus in vivo and in vitro. Tanaka S, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1473–80

ME–3407, a new antiulcer agent, inhibits acid secretion by interfering with redistribution of H(+)–K(+)–ATPase. Urushidani T, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1122–34

Calyculin A, a phosphoprotein phosphatase inhibitor, stimulates acid secretion in isolated gastric glands. Urushidani T, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G103–12

Substance P in the dorsal vagal complex inhibits medullary TRH–induced gastric acid secretion in rats. Yang H, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G987–93

Stimulation of gastric acid secretion by cAMP in a novel alpha–toxin–permeabilized gland model. Yao X, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C61–73

Stress, the brain, and the gastric mucosa. Kauffman GL. **Am J Surg** 1997 Sep;174(3):271–5

Acoustic measurement of change in voice quality with treatment for chronic posterior laryngitis. Hanson DG, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):279–85

Anti–gastric acid secretory mechanism of 1,6–dihydro–2–[2–(2–methylpropoxy)anilino]–6–oxo–5–pyrimidinecarboxylic acid. Effect on mucosal mast cell. Ishizuka Y, et al. **Arzneimittelforschung** 1996 Sep; 46(9):919–22

Histamine H2–receptor antagonist action of ebrotidine. Effects on gastric acid secretion, gastrin levels and NSAID–induced gastrotoxicity in the rat. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):439–46

Activation of parietal cell by mercaptomethylimidazole: a novel inducer of gastric acid secretion. Bandyopadhyay U, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):241–8

Effects of lanreotide, a somatostatin analogue, on postprandial gastric functions and biliopancreatic secretions in humans. Lamrani A, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):65–70

Pharmacological analysis of the CCKB/gastrin receptors mediating pentagastrin–stimulated gastric acid secretion in the isolated stomach of the immature rat. Hills DM, et al. **Br J Pharmacol** 1996 Dec;119(7):1401–10

A tyrosine–based signal targets H/K–ATPase to a regulated compartment and is required for the cessation of gastric acid secretion. Courtois–Coutry N, et al. **Cell** 1997 Aug 8;90(3):501–10

Effects of anaesthetics and trauma on stimulated gastric acid secretion in chronic fistula dogs. Bastaki SM, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):532–6

Alterations in gastric acidity in patients infected with human immunodeficiency virus. Welage LS, et al. **Clin Infect Dis** 1995 Dec;21(6):1431–8

Differences in basal nocturnal, meal–stimulated, and pentagastrin–stimulated gastric secretion values in a sample of healthy volunteers in basal conditions and under ranitidine influence. Carranza–Madrigal J, et al. **Control Clin Trials** 1996 Jun;17(3):258–65

Effect of nizatidine 300 mg at night and omeprazole 20 mg in the morning on 24–hour intragastric pH and bacterial overgrowth in patients with acute duodenal ulcer. Brummer RJ, et al. **Dig Dis Sci** 1996 Oct;41(10):2048–54

Gastric secretion of acid and pepsin in patients with esophageal stricture and appropriate controls. Hirschowitz BI. **Dig Dis Sci** 1996 Nov;41(11):2115–22

Effective gastric acid suppression after oral administration of enteric–coated omeprazole granules. Mohiuddin MA, et al. **Dig Dis Sci** 1997 Apr;42(4):715–9

Noninvasive assessment of gastric acid secretion in man. Application of electrical impedance tomography (EIT). Sarker SA, et al. **Dig Dis Sci** 1997 Aug;42(8):1804–9

Transforming growth factor–alpha (TGF–alpha) levels in human proximal gastrointestinal epithelium. Effect of mucosal injury and acid inhibition. Scheiman JM, et al. **Dig Dis Sci** 1997 Feb;42(2):333–41

Influence of type of dietary fat (olive and sunflower oil) upon gastric acid secretion and release of gastrin, somatostatin, and peptide YY in man. Serrano P, et al. **Dig Dis Sci** 1997 Mar;42(3):626–33

Intraduodenal lipid does not inhibit acid secretion in OLETF rats not expressing CCK–A receptor gene. Shoji E, et al. **Dig Dis Sci** 1996 Nov;41(11):2174–9

Role of gastrin/CCK–B receptor in the regulation of gastric acid secretion in rat. Tari A, et al. **Dig Dis Sci** 1997 Sep; 42(9):1901–7

Effect of enprostil on omeprazole–induced hypergastrinemia and inhibition of gastric acid secretion in peptic ulcer patients. Tari A, et al. **Dig Dis Sci** 1997 Aug;42(8):1741–6

YM022, a potent and selective gastrin/CCK–B receptor antagonist, inhibits peptone meal–induced gastric acid secretion in Heidenhain pouch dogs. Yuki H, et al. **Dig Dis Sci** 1997 Apr;42(4):707–14

Acid secretion and Helicobacter pylori. Sachs G, et al. **Digestion** 1997;58 Suppl 1:8–13 (16 ref.)

Statistical interpretation of the antisecretory effect of famotidine measured by intragastric pH–metry. Hunyady B, et al. **Eur J Clin Pharmacol** 1996;50(6):449–56

Effects of anaesthetic agents on basal and histamine–stimulated acid secretion in the fistula rat. Bastaki SM, et al. **Eur J Gastroenterol Hepatol** 1995 Dec; 7(12):1199–202

Twenty–four–hour monitoring of intragastric acidity: comparison between lansoprazole 30mg and pantoprazole 40mg. Florent C, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):195–200

Efficacy of a pectin–based anti–reflux agent on acid reflux and recurrence of symptoms and oesophagitis in gastro–oesophageal reflux disease. Havelund T, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):509–14

Intragastric pH and serum gastrin during administration of different doses of pantoprazole in healthy subjects. Koop H, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):915–8

The roles of excessive gastro–oesophageal reflux, disordered oesophageal motility and decreased mucosal sensitivity in the pathogenesis of Barrett's oesophagus. Niemantsverdriet EC, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):515–9 (41 ref.)

Gastric acid secretion after blockade of angiotensin AT1 receptors in the Na(+)–depleted rat. Chow L, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):309–17

Antisecretory and antiulcer effect of T–330, a novel reversible proton pump inhibitor, in rats. Kinosnita M, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):325–32

Intracerebroventricular injection of somatostatin sst5 receptor agonist inhibits gastric acid secretion in rats. Martínez V, et al. **Eur J Pharmacol** 1996 Jan 25; 296(2):153–60

Abnormal gastric histology and decreased acid production in cholecystokinin–B/gastrin receptor–deficient mice. Langhans N, et al. **Gastroenterology** 1997 Jan;112(1):280–6

Helicobacter pylori infection and chronic gastric acid hyposecretion. El–Omar EM, et al. **Gastroenterology** 1997 Jul;113(1):15–24

Neural and paracrine regulation of gastrin and gastric acid secretion [letter; comment] Schubert ML, et al. **Gastroenterology** 1996 Sep;111(3):837–8. Comment on: Gastroenterology 1996 Mar;110(3):926–38.

Mechanism of gastric acid hypersecretion in patients with islet cell tumor without hypergastrinemia: studies in rats. Song Y, et al. **Gastroenterology** 1997 Oct;113(4):1129–35

Studies on the interrelation between Zollinger–Ellison syndrome, Helicobacter pylori, and proton pump inhibitor therapy. Weber HC, et al. **Gastroenterology** 1997 Jan; 112(1):84–91

Neurogenic stimulation of gastric acid secretion by the Na+, K(+)–ATPase inhibitor ouabain in mouse isolated stomach. Horie S, et al. **Gen Pharmacol** 1996 Jul;27(5):905–9

Nitric oxide, prostaglandin, and sensory neurons in gastric mucosal blood flow response during acid secretion in rats. Kato S, et al. **Gen Pharmacol** 1997 Apr;28(4):513–9

Gastric ECL–cell hyperplasia produces enhanced basal and stimulated gastric acid output but not gastric erosion formation in the rat. LePard KJ, et al. **Gen Pharmacol** 1997 Mar;28(3):415–20

Stimulation of acid secretion in rat stomach following exposure to taurocholate in the presence of the nitric oxide synthase inhibitor. Takeuchi K, et al. **Gen Pharmacol** 1996 Jul;27(5):849–54

Effect of N alpha–methyl–histamine on acid secretion in isolated cultured rabbit parietal cells: implications for Helicobacter pylori associated gastritis and gastric physiology. Beales IL, et al. **Gut** 1997 Jan;40(1):14–9

Gastric acid secretion [letter; comment] Beales IL. **Gut** 1997 Jan;40(1):155. Comment on: Gut 1996 May;38(5):663–7.

Central peptidergic control of gastric acid secretion. Geoghegan JG, et al. **Gut** 1997 Feb;40(2):164–6

Relation between gastric acid output, Helicobacter pylori, and gastric metaplasia in the duodenal bulb [see comments] Harris AW, et al. **Gut** 1996 Oct;39(4):513–20. Comment in: Gut 1996 Oct;39(4):615–6.

Helicobacter pylori, gastric acid, and duodenal gastric metaplasia [comment] McColl KE. **Gut** 1996 Oct; 39(4):615–6. Comment on: Gut 1996 Oct;39(4):508–12. Comment on: Gut 1996 Oct;39(4):513–20.

Helicobacter pylori and duodenal ulcers [letter; comment] Oshowo O, et al. **Gut** 1997 Jan;40(1):155–6. Comment on: Gut 1996 May;38(5):663–7.

Circadian gastric acidity in Helicobacter pylori positive ulcer patients with and without gastric metaplasia in the duodenum [see comments] Savarino V, et al. **Gut** 1996 Oct; 39(4):508–12. Comment in: Gut 1996 Oct;39(4):615–6.

Alcoholic beverages produced by alcoholic fermentation but not by distillation are powerful stimulants of gastric acid secretion in humans. Teyssen S, et al. **Gut** 1997 Jan; 40(1):49–56

Marked increase in gastric acid secretory capacity after omeprazole treatment. Waldum HL, et al. **Gut** 1996 Nov; 39(5):649–53

The inhibitory effect of glucagon–like peptide–1 (GLP–1) 7–36 amide on gastric acid secretion in humans depends on an intact vagal innervation. Wettergren A, et al. **Gut** 1997 May;40(5):597–601

Relationship between acid secretory activity and gastroduodenal migrating motor complex. Bortolotti M. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1288–95

Stimulated gastrinemia, parietal cell mass and stimulated acid secretion in autonomous chronic gastritis: Helicobacter pylori influence. Testino G, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):650–4

Gastric bacterial overgrowth accompanies profound acid suppression. Patel TA, et al. **Indian J Gastroenterol** 1995 Oct;14(4):134–6

In vitro effect of glucagon–like peptide–1 (7–36)amide, oxyntomodulin, vasoactive intestinal peptide and somatostatin on gastric acid and pepsinogen secretion. Ben–Hamida A, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S105–6

Influence of gastric acid secretion blockade and food intake on the bioavailability of a potassium diclofenac suspension in healthy male volunteers. Poli A, et al. **Int J Clin Pharmacol Ther** 1996 Feb;34(2):76–9

The effect of acute bilateral adrenalectomy on serotonin–induced inhibition of gastric acid secretion and acute gastric mucosal injury in rats. Gidener S, et al. **Int J Exp Pathol** 1996 Aug;77(4):163–6

Effect of nasogastric suction and ranitidine on the calculated gastric intramucosal pH [letter; comment] Kolkman JJ, et al. **Intensive Care Med** 1997 Jan;23(1):132. Comment on: Intensive Care Med 1996 Apr;22(4):319–23.

Serum pepsinogen I levels and acid secretion in Helicobacter pylori associated enlarged fold gastritis. Yasunaga Y, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):457–61

Acid secretion, serum pepsinogen A and Helicobacter pylori [letter] Testino G, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):81–2

Suppression of gastric acidity in horses. Murray MJ. **J Am Vet Med Assoc** 1997 Jul 1;211(1):37–40 (33 ref.)

Gastric secretion in Chinese patients with cirrhosis. Lo WC, et al. **J Clin Gastroenterol** 1996 Dec;23(4):256–60

Detrimental impact of acid and pepsin on the rate of luminal release of transforming growth factor alpha. Its potential pathogenetic role in the development of reflux esophagitis. Marcinkiewicz M, et al. **J Clin Gastroenterol** 1996 Dec; 23(4):261–8

Role of L–arginine, a substrate for nitric oxide–synthase, in gastroprotection and ulcer healing. Brzozowski T, et al. **J Gastroenterol** 1997 Aug;32(4):442–52

Pyloric antral inhibition of gastrin release. Magee DF. **J Gastroenterol** 1996 Oct;31(5):758–63 (40 ref.)

High acid secretion may protect the gastric mucosa from injury caused by ammonia produced by Helicobacter pylori in duodenal ulcer patients. Shibata T, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):674–80

The contrasting influence of chronic nicotine intake on gastrin and gastric acid secretion. Wong D, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):577–84

Evaluation of 24–hour gastric acidity in patients with hepatic cirrhosis. Savarino V, et al. **J Hepatol** 1996 Aug;25(2):152–7

Signal transduction and activation of acid secretion in the parietal cell. Urushidani T, et al. **J Membr Biol** 1997 Sep 15;159(2):99–111 (119 ref.)

The protective role of gastric acidity in neonatal bacterial translocation. Dinsmore JE, et al. **J Pediatr Surg** 1997 Jul; 32(7):1014–6

Gastroenteropancreatic effects of xenin in the dog. Feurle GE, et al. **J Pept Res** 1997 Apr;49(4):324–30

Somatostatin inhibition of acid and histamine release by activation of somatostatin receptor subtype 2 receptors in rats. Aurang K, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):245–52

Secretin inhibits canine gastric acid secretion in response to pentagastrin by modulating gastric histamine release. Gerber JG, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):718–23

Gastric hyperemic response during vagally mediated acid secretion by TRH analog in rats. Kato S, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1351–7

Increased sensitivity of gastrin cells to gastric distension following antral denervation in the rat. Higham A, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):169–75

Differences in action of topical and systemic cysteamine on gastric blood flow, gastric acid secretion and gastric ulceration in the rat. Abdel–Salam O, et al. **J Physiol Paris** 1996;90(2):63–73

Gastric acid secretion and gastroduodenal pH after pancreaticogastrostomy in dogs. Shinchi H, et al. **J Surg Res** 1996 Feb 15;61(1):152–8

The mature stomach. Still pumping out acid? [editorial; comment] Feldman M. **JAMA** 1997 Aug 27;278(8):681–2 . Comment on: JAMA 1997 Aug 27;278(8):659–62.

Gastric acidity in older adults [see comments] Hurwitz A, et al. **JAMA** 1997 Aug 27;278(8):659–62. Comment in: JAMA 1997 Aug 27;278(8):681–2.

Comparative evaluation of the role of endogenous gastrin in basal acid secretion in conscious rats provided with

chronic fistula and pylorus ligation. Nishida A, et al. **Jpn J Pharmacol** 1996 Jul;71(3):223–30

Physiology of gastric–acid secretion [letter; comment] Yarze JC. **Lancet** 1997 Aug 9;350(9075):446; discussion 447. Comment on: Lancet 1997 Jun 7;349(9066):1637–8.

The beta3–adrenoceptor agonist SR58611A inhibits gastric acid secretion in the conscious cat. Coruzzi G, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):263–5

Evidence for central nervous effects of corticotropin–releasing hormone on gastric acid secretion in humans. Kern W, et al. **Neuroendocrinology** 1997 Apr; 65(4):291–8

Role of endogenous bombesin–peptides during vagal stimulation of gastric acid secretion in the rat. Weigert N, et al. **Neuropeptides** 1996 Dec;30(6):521–7

Diurnal variation in intragastric pH in children with and without peptic ulcers. Nagita A, et al. **Pediatr Res** 1996 Oct;40(4):528–32

H–Lys–Arg–Asn–Lys–Asn–Asn–OH is the minimal active structure of oxyntomodulin. Carles–Bonnet C, et al. **Peptides** 1996;17(3):557–61

Gastrin partially mediates insulin–induced acid secretion in dogs. Kovacs TO, et al. **Peptides** 1996;17(4):583–7

Effects of 2–guanidine–4–methylquinazoline on gastric acid secretion in rats. Pinelli A, et al. **Pharmacol Res** 1996 Nov–Dec;34(5–6):225–30

Effects of carnitine and its derivatives on gastric acid secretion in rats. Valoti M, et al. **Pharmacol Res** 1996 Nov–Dec;34(5–6):219–24

Effect of cholecystokinin–B/gastrin receptor blockade on gastric acid secretion in conscious rats. Ding XQ, et al. **Pharmacol Toxicol** 1996 Dec;79(6):324–30

Influence of gallopamil on the gastric effects of stress in conscious rats. Coşkun T, et al. **Pharmacology** 1996 Apr; 52(4):199–206

Effects of a nitric oxide donor and nitric oxide synthase inhibitors on acid secretion of isolated rabbit gastric glands. Kim H, et al. **Pharmacology** 1996 Dec;53(6):331–9

Proton pump inhibitors and acid–related diseases. Sachs G. **Pharmacotherapy** 1997 Jan–Feb;17(1):22–37 (112 ref.)

Effects of spontaneous gastric hypoacidity on the pharmacokinetics of zidovudine and didanosine. Shelton MJ, et al. **Pharmacotherapy** 1997 May–Jun;17(3):438–44

Inhibition of gastric acid secretion by the aqueous extract and purified extracts of Stachytarpheta cayennensis. Vela SM, et al. **Planta Med** 1997 Feb;63(1):36–9

Inhibition of gastric acid secretion by stress: a protective reflex mediated by cerebral nitric oxide. Esplugues JV, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14839–44

Caloric restriction causes secretagogue specific changes of gastric acid secretion in rats. Higashide S, et al. **Regul Pept** 1997 Feb 26;68(3):205–10

Inhibition of gastrin–stimulated gastric acid secretion by medium–chain triglycerides and long–chain triglycerides in healthy young men. Maas MI, et al. **Regul Pept** 1996 Oct 22;66(3):203–10

Stimulatory effect of diazepam on gastric acid secretion in the continuously perfused stomach in rats under urethane anesthesia. Lin WC. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):157–68

Potentiation by baclofen of gastric acid secretion stimulated by secretagogues in vagotomized rats under anesthesia. Lin W–C. **Res Commun Mol Pathol Pharmacol** 1996 Feb; 91(2):211–24

Secretory, endoscopic and histopathologic changes and prevalence of Helicobacter pylori in the gastroduodenal mucosa in patients with chronic alcoholic pancreatitis. André SB, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct;51(5):175–9

Gastric acid secretion after depletion of enterochromaffin–like cell histamine. A study with alpha–fluoromethylhistidine in rats. Andersson K, et al. **Scand J Gastroenterol** 1996 Jan;31(1):24–30

Twenty–four–hour basal and repetitive pentagastrin–stimulated gastric acid secretion in normal and sham–operated rats and in rats after gonadectomy or treatment with estradiol or testosterone. Girma K, et al. **Scand J Gastroenterol** 1997 Jul;32(7):669–75

Cure of Helicobacter pylori infection improves gastric acid secretion in patients with corpus gastritis. Gutierrez O, et al. **Scand J Gastroenterol** 1997 Jul;32(7):664–8

Helicobacter pylori inhibits the secretory activity of gastric parietal cells in patients with chronic gastritis. An ultrastructural study. Taguchi Y, et al. **Scand J Gastroenterol** 1997 Jul;32(7):656–63

Transient increase of blood histamine level induced by pentagastrin. Continuous monitoring by in vivo microdialysis. Watanabe H, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1144–50

Glucagon–like peptide–1 7–36 amide and peptide YY have additive inhibitory effect on gastric acid secretion in man. Wettergren A, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):552–5

Rat stomach enterochromaffin–like cells are not stimulated by pylorus ligation. A biochemical and ultrastructural study. Zhao CM, et al. **Scand J Gastroenterol** 1996 Jan; 31(1):31–7

Peptic ulcer pathophysiology: acid, bicarbonate, and mucosal function. Høgjaard L, et al. **Scand J Gastroenterol Suppl** 1996;216:10–5 (62 ref.)

Helicobacter pylori and disturbance of gastric function associated with duodenal ulcer disease and gastric cancer. McColl KE, et al. **Scand J Gastroenterol Suppl** 1996; 215:32–7 (40 ref.)

Comparison of acid reduction in antiulcer operations. Brody FJ, et al. **Surg Endosc** 1997 Feb;11(2):123–5

Changes in gastric acid secretion and fasting gastrin levels during healing of duodenal ulcers. Hasebe T, et al. **Tokai J Exp Clin Med** 1995 Jul;20(2):131–5

Association between serum gastrin levels, gastric acid secretion and age in early gastric cancer. Miyaji M, et al. **Tumour Biol** 1997;18(5):311–20

Optimizing the intragastric pH as a supportive therapy in upper GI bleeding. Brunner G, et al. **Yale J Biol Med** 1996 May–Jun;69(3):225–31

Long–term effects of Helicobacter pylori infection on acid and pepsin secretion. Halter F, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):99–104 (39 ref.)

pH, healing rate and symptom relief in acid–related diseases. Huang JQ, et al. **Yale J Biol Med** 1996 Mar–Apr; 69(2):159–74 (123 ref.)

CCKB/gastrin receptor antagonists: recent advances and potential uses in gastric secretory disorders. Jensen RT. **Yale J Biol Med** 1996 May–Jun;69(3):245–59 (106 ref.)

The influence of food, beverages and NSAIDs on gastric acid secretion and mucosal integrity. Peterson WL. **Yale J Biol Med** 1996 Jan–Feb;69(1):81–4 (22 ref.)

Acid, protons and Helicobacter pylori. Sachs G, et al. **Yale J Biol Med** 1996 May–Jun;69(3):301–16 (47 ref.)

[Measurement of gastric acid secretion and pH] Rune SJ. **Ugeskr Laeger** 1997 Jun 9;159(24):3750–1 **(Dan)**

[Helicobacter pylori infection and gastric acid secretion] Courillon–Mallet A. **Gastroenterol Clin Biol** 1997; 21(2):139–46 (78 ref.) **(Fre)**

[Long–term inhibition of gastric acid secretion. Evaluation and healing of Helicobacter pylori infection? (editorial)] Labenz J, et al. **Leber Magen Darm** 1996 Sep;26(5):241–2 **(Ger)**

[Gastric secretion and motility function after pylorus–preserving pancreaticoduodenectomy] Asahi H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):381–3 **(Jpn)**

[The mechanisms of the inhibition of gastric acid secretion induced by intraduodenal amino acids in rats] Ikeda M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan; 94(1):12–20 (Eng. Abstr.) **(Jpn)**

[Effects of intravenous lansoprazole on acute gastric mucosal lesions and acid secretion] Inatomi N, et al. **Nippon Yakurigaku Zasshi** 1996 Dec;108(6):333–43 (Eng. Abstr.) **(Jpn)**

[Antiulcer properties of shosaiko–to] Matsuta M, et al. **Nippon Yakurigaku Zasshi** 1996 Oct;108(4):217–25 (Eng. Abstr.) **(Jpn)**

[Cell biology in gastric–acid secretion—drug design] Okabe S, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):113–5 (0 ref.) **(Jpn)**

[Effects of Cuban analog (SWR–104SA), a new histamine H2 receptor antagonist, on gastric acid secretion and experimental ulcer formation] Shinkawa R, et al. **Yakugaku Zasshi** 1996 Oct;116(10):783–91 (Eng. Abstr.) **(Jpn)**

[Helicobacter pylori infection and gastric secretion (editorial)] Zaremba–Woroniecka A, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):157–60 **(Pol)**

[A method for the continuous quantitative estimation of acid and bicarbonate secretion in the stomach of narcotized rats] Zolotarev VA, et al. **Fiziol Zh Im I M Sechenova** 1996 Jul;82(7):111–6 **(Rus)**

[Secretory function of stomach in long term followup period after selective proximal vagotomy] Podoluzhnyi, et al. **Khirurgiia (Mosk)** 1997;(5):18–20 (Eng. Abstr.) **(Rus)**

[Nizatidine++ among the drugs usable in the treatment of acid–dependent gastric diseases] German SV. **Klin Med (Mosk)** 1997;75(5):34–41 (103 ref.) **(Rus)**

[The motor–evacuatory and acid–producing functions of the stomach in patients with complicated peptic ulcer combined with thyrotoxicosis] Ibadov Ilu, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):22–3 (Eng. Abstr.) **(Rus)**

GASTRIC ACIDITY DETERMINATION

Gastric intramucosal pH and blood lactate in severe sepsis. Joynt GM, et al. **Anaesthesia** 1997 Aug;52(8):726–32

Gastro–intestinal disorders [letter; comment] Markitziu A, et al. **Br Dent J** 1997 Mar 22;182(6):207. Comment on: Br Dent J 1996 Aug 24;181(4):125–31.

Gastric intramucosal pH and hepatic venous oximetry after cardiopulmonary bypass in valve replacement patients. Takahashi T, et al. **Cardiovasc Surg** 1996 Jun;4(3):308–10

Monitoring tissue oxygenation. The search for the grail [editorial; comment] Dantzker DR. **Chest** 1997 Jan; 111(1):12–4. Comment on: Chest 1997 Jan;111(1):174–9.

The DCO2 measured by gastric tonometry predicts survival in children receiving extracorporeal life support. Comparison with other hemodynamic and biochemical information. Royal Children's Hospital ECMO Nursing Team [see comments] Duke T, et al. **Chest** 1997 Jan; 111(1):174–9. Comment in: Chest 1997 Jan;111(1):12–4.

The relationship between acid and bile reflux and symptoms in gastro–oesophageal reflux disease. Marshall RE, et al. **Gut** 1997 Feb;40(2):182–7

Gastric intramucosal pH: a predictor of survival in cardiac surgery patients with low cardiac output? Böhrer H, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):184–6

Routine blood–gas analysis and gastric tonometry: a reappraisal [letter] Rhodes A, et al. **Lancet** 1997 Aug 9; 350(9075):413

[Measurement of gastric acid secretion and pH] Rune SJ. **Ugeskr Laeger** 1997 Jun 9;159(24):3750–1 **(Dan)**

[pHi value as a prognostic parameter in septic and polytrauma patients] Weitz J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:334–7 (Eng. Abstr.) **(Ger)**

[The effect of preoperative oral fluid intake on the volume and pH of gastric contents in elective surgical patients—a comparison of tea with apple juice] Tanabe T, et al. **Masui** 1996 Aug;45(8):967–70 (Eng. Abstr.) **(Jpn)**

[Continuous intragastric pH monitoring] Asaki S, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:95–8 (3 ref.) **(Jpn)**

[Acid–peptic aggression in ulcers in different locations] Gorshkov BA. **Klin Med (Mosk)** 1996;74(2):75–6 **(Rus)**

[Current assessment of gastric acidity] Leia IuIa. **Klin Med (Mosk)** 1996;74(3):13–6 **(Rus)**

[Intraoperative monitoring of gastric intramucosal pH] Concha M, et al. **Rev Med Chil** 1996 Aug;124(8):918–22 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Diagnostic interpretation of 24–hour intragastric pH–metry using a pattern recognition method. Hunyady B, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):353–8

Accurate measurement of gastric acidity [letter; comment] Castell DO. **Am J Gastroenterol** 1997 Jan;92(1):181. Comment on: Am J Gastroenterol 1996 Jun;91(6):1167–72.

A new device for monitoring gastric pH in free–ranging animals. Peters G. **Am J Physiol** 1997 Sep;273(3 Pt 1):G748–53

Extraesophageal pediatric reflux: 24–hour double–probe pH monitoring of 222 children. Little JP, et al. **Ann Otol Rhinol Laryngol Suppl** 1997 Jul;169:1–16

24–hour recording of intragastric pH in clinical trials: preconditions, methodology, and standardization strategies. Timmer W, et al. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):34S–39S

Automated oesophageal reflux sampler—a new device used to monitor bile acid reflux in patients with gastro–oesophageal reflux disease. Nehra D, et al. **J Med Eng Technol** 1997 Jan–Feb;21(1):1–9

GASTRIC ANTRUM see **PYLORIC ANTRUM**

GASTRIC BALLOON see **GASTRIC BUBBLE**

GASTRIC BUBBLE

Twenty–four–hour pH measurements in morbid obesity: effects of massive overweight, weight loss and gastric distension [see comments] Mathus–Vliegen LM, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):635–40. Comment in: Eur J Gastroenterol Hepatol 1996 Jul;8(7):625–6.

[Stomach volume reduction balloon for weight loss: what is the justification for this controversial method?] Krakamp B, et al. **Zentralbl Chir** 1997;122(5):349–56; discussion 356–7 (Eng. Abstr.) **(Ger)**

GASTRIC BYPASS

Circumferential torsoplasty. Carwell GR, et al. **Ann Plast Surg** 1997 Mar;38(3):213–6

Gastric cancer in the bypassed segment after operation for morbid obesity. Lord RV, et al. **Aust N Z J Surg** 1997 Aug;67(8):580–2

Gastric bypass in morbidly obese kidney transplant recipients. Marterre WF, et al. **Clin Transplant** 1996 Oct;10(5):414–9

Weight change in relation to intake of sugar and sweet foods before and after weight reducing gastric surgery. Lindroos AK, et al. **Int J Obes Relat Metab Disord** 1996 Jul; 20(7):634–43

ADVERSE EFFECTS

Stomal ulcer after gastric bypass [see comments] MacLean LD, et al. **J Am Coll Surg** 1997 Jul;185(1):1–7. Comment in: J Am Coll Surg 1997 Jul;185(1):87–8.

Pregnancy following gastric bypass surgery for morbid obesity. Gurewitsch ED, et al. **Obstet Gynecol** 1996 Oct; 88(4 Pt 2):658–61

METHODS

Prospective, randomized evaluation of midline fascial closure in gastric bariatric operations. Brolin RE. **Am J Surg** 1996 Oct;172(4):328–31

Gastrojejunal reconstruction after subtotal gastrectomy using stapler devices. Personal technique. Palaia R, et al. **J Chemother** 1997 Apr;9(2):153–4

Laparoscopic gastric bypass in a porcine model [letter; comment] Clark GW, et al. **J Laparoendosc Surg** 1996 Jun; 6(3):197–8. Comment on: J Laparoendosc Surg 1995 Apr;5(2):97–100.

Laparoscopic bariatric surgery [letter] Deitel M. **Surg Endosc** 1997 Sep;11(9):965–6

Laparoscopic Roux–en–Y gastric bypass for morbid obesity: a feasibility study in pigs. Potvin M, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):294–7

GASTRIC BYPASS

Stomach-preserving gastric bypass for unresectable pancreatic cancer. Konishi M, et al. **Surg Today** 1997; 27(5):429–33

[Surgical treatment of obesity. Is gastric wrapping an alternative?] Fanneløp TO, et al.
Tidsskr Nor Laegeforen 1997 Jun 10;117(15):2166–9 (Eng. Abstr.) **(Nor)**

PSYCHOLOGY

Eating disturbances and outcome of gastric bypass surgery: a pilot study. Hsu LK, et al. **Int J Eat Disord** 1997 May; 21(4):385–90

GASTRIC EMPTYING

Routine preoperative gastric emptying is seldom indicated. A study of 85,594 anaesthetics with special focus on aspiration pneumonia. Mellin-Olsen J, et al.
Acta Anaesthesiol Scand 1996 Nov;40(10):1184–8

Gastric emptying of a light hospital breakfast. A study using real time ultrasonography [see comments] Søreide E, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):549–53. Comment in: Acta Anaesthesiol Scand 1996 May;40(5):507–8.

The effects of variously performed vagotomies on gastric secretion and gastric emptying in rats. Alhan E, et al.
Acta Chir Hung 1995-96;35(3-4):277–84

Study of gastric emptying in patients with pancreatic diabetes (chronic pancreatitis) using acetaminophen and isotope. Nakamura T, et al. **Acta Gastroenterol Belg** 1996 Jul–Sep; 59(3):173–7

Gastric emptying in pre-term infants: the effect of breast milk fortifier. Ewer AK, et al. **Acta Paediatr** 1996 Sep; 85(9):1112–5

Relation between postprandial satiation and antral area in normal subjects. Jones KL, et al. **Am J Clin Nutr** 1997 Jul;66(1):127–32

Reduced food intake after jejunoileal bypass: a possible association with prolonged gastric emptying and altered gut hormone patterns [see comments] Näslund E, et al. **Am J Clin Nutr** 1997 Jul;66(1):26–32. Comment in: Am J Clin Nutr 1997 Jul;66(1):184–5.

Effects of milk viscosity on gastric emptying and lactose intolerance in lactose maldigesters. Vesa TH, et al.
Am J Clin Nutr 1997 Jul;66(1):123–6

Correlation between patterns of antral contractility and gastric emptying of radiopaque markers. Chang CS, et al.
Am J Gastroenterol 1997 May;92(5):830–4

Gastric electrical dysrhythmias and delayed gastric emptying in gastroesophageal reflux disease [see comments] Cucchiara S, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1103–8. Comment in: Am J Gastroenterol 1997 Jul;92(7):1077–8.

Gastric emptying in hyperthyroidism. Jonderko K, et al.
Am J Gastroenterol 1997 May;92(5):835–8

Cutaneous electrogastrography for the assessment of gastric myoelectrical activity in type I diabetes mellitus. Mantides A, et al. **Am J Gastroenterol** 1997 Jul;92(7):1190–3

Delayed gastric emptying and postoperative ileus after nongastric abdominal surgery: part I. Resnick J, et al.
Am J Gastroenterol 1997 May;92(5):751–62 (130 ref.)

Delayed gastric emptying in reflux patients: to be or not to be? [editorial; comment] Richter JE.
Am J Gastroenterol 1997 Jul;92(7):1077–8. Comment on: Am J Gastroenterol 1997 Jul;92(7):1103–8.

Gastric emptying in patients with gastroesophageal reflux disease [letter; comment] Urbain D, et al.
Am J Gastroenterol 1997 Apr;92(4):724. Comment on: Am J Gastroenterol 1996 Jul;91(7):1351–4.

Neuronal pathways involved in abdominal surgery-induced gastric ileus in rats. Barquist E, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R888–94

Leptin-induced decrease in food intake is not associated with changes in gastric emptying in lean mice. Barrachina MD, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R1007–11

Gastric emptying and gastrointestinal transit during lactation in rats. Chen TS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G626–31

Abdominal surgery-induced inhibition of gastric emptying is mediated in part by interleukin-1 beta. Coimbra CR, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R556–60

Effects of increasing solid component size of a mixed solid/liquid meal on solid and liquid gastric emptying. Collins PJ, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G549–54

Reduction of intake in the rat due to gastric filling. Davis JD, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1599–605

Hyperglycemia affects proximal gastric motor and sensory function during small intestinal triglyceride infusion. Hebbard GS, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G814–9

Gastric emptying following pylorus-preserving Whipple and duodenum-preserving pancreatic head resection in patients with chronic pancreatitis. Müller MW, et al.
Am J Surg 1997 Apr;173(4):257–63

Ultrasound examination of the stomach contents of women in the postpartum period. Jayaram A, et al.
Anesth Analg 1997 Mar;84(3):522–6

Delayed gastric emptying: a novel gastrointestinal finding in Turner's syndrome. Staiano A, et al. **Arch Dis Child** 1996 Nov;75(5):440–3

Neither motor responses nor gastric emptying vary in response to formula temperature in preterm infants. Anderson CA, et al. **Biol Neonate** 1996;70(5):265–70

National survey of radionuclide gastric emptying studies. House A, et al. **Can J Gastroenterol** 1997 May-Jun; 11(4):317–21

Application of isotope-selective nondispersive infrared spectrometry (IRIS) for evaluation of [13C]octanoic acid gastric-emptying breath tests: comparison with isotope ratio-mass spectrometry (IRMS). Schadewaldt P, et al.
Clin Chem 1997 Mar;43(3):518–22

Gastric emptying of milk feedings in infants and children. Anterior versus conjugate counting. Heyman S, et al.
Clin Nucl Med 1997 May;22(5):303–5

Transmission image aids in diagnosis of hiatus hernia during gastric emptying study. Tulchinsky M, et al.
Clin Nucl Med 1996 Dec;21(12):999–1000

Hypoglycaemia and gastric emptying. Berne C.
Diabet Med 1996 Sep;13(9 Suppl 5):S28–30

Gastric emptying in diabetes: an overview. Horowitz M, et al. **Diabet Med** 1996 Sep;13(9 Suppl 5):S16–22 (60 ref.)

Methods for the assessment of gastric emptying in humans: an overview. Maughan RJ, et al. **Diabet Med** 1996 Sep;13(9 Suppl 5):S6–10 (22 ref.)

Decelerating gastric emptying: therapeutic possibilities in type 2 diabetes. Phillips WT, et al. **Diabet Med** 1996 Sep; 13(9 Suppl 5):S44–8 (13 ref.)

Gastric emptying in type 2 diabetes: quick or slow? Smith U. **Diabet Med** 1996 Sep;13(9 Suppl 5):S31–3 (22 ref.)

Evaluation of delayed gastric emptying in diabetic patients with autonomic neuropathy by a new magnetic resonance imaging technique and radio-opaque markers. Lehmann R, et al. **Diabetes Care** 1996 Oct;19(10):1075–82

Does postprandial walking influence delayed gastric emptying in patients with long-standing IDDM? [letter] Lipp RW, et al. **Diabetes Care** 1996 Nov;19(11):1306

[13C]octanoic acid breath test for non-invasive assessment of gastric emptying in diabetic patients: validation and relationship to gastric symptoms and cardiovascular autonomic function. Ziegler D, et al. **Diabetologia** 1996 Jul; 39(7):823–30

Gender-related differences in gastric emptying rate of solid meals. Hermansson G, et al. **Dig Dis Sci** 1996 Oct; 41(10):1994–8

Effect of carbonated water on gastric emptying and intragastric meal distribution. Pouderoux P, et al.
Dig Dis Sci 1997 Jan;42(1):34–9

Gastric emptying in OLETF rats not expressing CCK-A receptor gene. Shoji E, et al. **Dig Dis Sci** 1997 May; 42(5):915–9

[13C]octanoic acid breath test for gastric emptying of solids: accuracy, reproducibility, and comparison with scintigraphy. Choi MG, et al. **Gastroenterology** 1997 Apr; 112(4):1155–62

Intragastric distribution and gastric emptying assessed by three-dimensional ultrasonography. Gilja OH, et al.
Gastroenterology 1997 Jul;113(1):38–49

Effect of bran, ispaghula, and inert plastic particles on gastric emptying and small bowel transit in humans: the role of physical factors. McIntyre A, et al. **Gut** 1997 Feb; 40(2):223–7

Gastrointestinal motor mechanisms in hyperglycaemia induced delayed gastric emptying in type I diabetes mellitus. Samsom M, et al. **Gut** 1997 May;40(5):641–6

Postoperative delayed emptying in pylorus-preserving pancreatoduodenectomy using pancreaticogastrostomy: comparison of the reconstruction position. Kasuaya H, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):856–60

Emptying of the jejunal pouch as a gastric substitute after total gastrectomy for cancer. Nakane Y, et al.
Hepatogastroenterology 1997 May-Jun;44(15):901–6

Gastric emptying and plasma deuterium accumulation following ingestion of water and two carbohydrate-electrolyte beverages. Murray R, et al.
Int J Sport Nutr 1997 Jun;7(2):144–53

Simultaneous determination of gastric emptying and intestinal absorption during cycle exercise in humans. Lambert GP, et al. **Int J Sports Med** 1996 Jan;17(1):48–55

Impaired gastric emptying in mechanically ventilated, critically ill patients. Heyland DK, et al.
Intensive Care Med 1996 Dec;22(12):1339–44

Impaired absorption of oral levodopa: a major cause for response fluctuations in Parkinson's disease. Djaldetti R, et al. **Isr J Med Sci** 1996 Dec;32(12):1224–7 (26 ref.)

Gastric emptying in hypothyreosis. Jonderko G, et al.
Isr J Med Sci 1997 Mar;33(3):198–203

Delayed gastric emptying in an infant with Sandifer syndrome. Cardi E, et al. **Ital J Gastroenterol** 1996 Dec; 28(9):518–9

Postoperative gastric emptying [letter; comment] Frankel LA. **J Am Coll Surg** 1997 Mar;184(3):336–7. Comment on: J Am Coll Surg 1996 May;182(5):388–93. Comment on: J Am Coll Surg 1996 May;182(5):452–3.

Evaluation of solid-phase labels for gastric emptying studies in cats. Hoskinson JJ, et al. **J Nucl Med** 1997 Mar; 38(3):495–9

Gastric emptying in early noninsulin-dependent diabetes mellitus. Jones KL, et al. **J Nucl Med** 1996 Oct; 37(10):1643–8

Accelerated gastric emptying in hypertensive subjects. Phillips WT, et al. **J Nucl Med** 1997 Feb;38(2):207–11

Lag phase quantification for solid gastric emptying studies. Ziessman HA, et al. **J Nucl Med** 1996 Oct;37(10):1639–43

Changes in gastric emptying in early postnatal life. Carlos MA, et al. **J Pediatr** 1997 Jun;130(6):931–7

A comparison of the efficacy of pyloromyotomy and pyloroplasty in patients with gastroesophageal reflux and delayed gastric emptying. Okuyama H, et al.
J Pediatr Surg 1997 Feb;32(2):316–9; discussion 319–20

Rapid gastric emptying in patients with functional diarrhea. Charles F, et al. **Mayo Clin Proc** 1997 Apr;72(4):323–8

Effect of glucose and lipids on intestinal absorption of sorbitol: role of gastric emptying. Beaugerie L, et al.
Neurogastroenterol Motil 1996 Sep;8(3):235–9

Gastric emptying patterns of a liquid meal in newborn infants measured by epigastric impedance. Lange A, et al.
Neurogastroenterol Motil 1997 Jun;9(2):55–62

Gastric emptying in Parkinson's disease: patients with and without response fluctuations. Djaldetti R, et al.
Neurology 1996 Apr;46(4):1051–4

Abnormal gastric emptying and Helicobacter pylori infection in patients with cirrhosis of the liver. Kao CH, et al.
Nucl Med Commun 1996 Oct;17(10):915–9

Ultrasonographic evaluation of gastric emptying in normal children and children after pyloromyotomy. Asai A, et al.
Pediatr Surg Int 1997 Jul;12(5-6):344–7

The use of poly R-478 as a marker to determine gastric emptying and intestinal propulsive motility in suckling rats. Shinohara H, et al. **Physiol Res** 1995;44(5):281–6

Measurement of gastric emptying time by real-time ultrasonography in patients with Crohn's disease. Damião AO, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep-Oct; 51(5):154–6

Antral myoelectric activity, gastric emptying, and dyspeptic symptoms in diabetics. Pfaffenbach B, et al.
Scand J Gastroenterol 1995 Dec;30(12):1166–71

Comprehensive gastric emptying study for type-II diabetes mellitus dyspeptic patients. Tung CF, et al.
Scand J Gastroenterol 1997 Sep;32(9):884–7

Ultrasonography of the human stomach. Berstad A, et al.
Scand J Gastroenterol Suppl 1996;220:75–82 (60 ref.)

The effects of convenient vagorrhaphy on the early recovery of gastric secretion and emptying: an experimental study on function-preserving gastric cancer surgery. Kodama M, et al. **Surg Today** 1997;27(8):741–4

Emptying of the intrathoracic stomach using three different pylorus drainage procedures--results of a comparative study. Manjari R, et al. **Surg Today** 1996;26(8):581–5

[Gastric secretion and motility function after pylorus-preserving pancreaticoduodenectomy] Asahi H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):381–3 **(Jpn)**

[Significance of gastric antrum contraction in liquid meal emptying. An ultrasonographic evaluation] Hatake J, et al. **J Smooth Muscle Res** 1995 Dec;31(6):359–60 **(Jpn)**

[Gastric emptying and small intestinal transport in chronic pancreatic insufficiency] Mizumoto A, et al.
J Smooth Muscle Res 1995 Dec;31(6):377–9 **(Jpn)**

[Gastric emptying of radiopaque markers] Tanno Y, et al.
J Smooth Muscle Res 1995 Dec;31(6):358–9 **(Jpn)**

[13C-acetate breath test for the measurement of gastric emptying rates] Urita Y, et al. **Kaku Igaku** 1996 Oct; 33(10):1083–90 (Eng. Abstr.) **(Jpn)**

[Gastric emptying test (acetaminophen method)] Hasebe T, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:135–8 (6 ref.) **(Jpn)**

[Measurement of gastric emptying using radioisotope] Ishikawa H, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:139–42 (5 ref.) **(Jpn)**

[Gastric emptying by the barium marker method] Kikuchi K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:132–4 (6 ref.) **(Jpn)**

[Gastric emptying test using helical CT] Matsumoto K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:146–9 (7 ref.) **(Jpn)**

[Gastric emptying study by electrical impedance tomography] Naruse S, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:143–5 (6 ref.) **(Jpn)**

[Measurement of gastric emptying by MRI] Takazakura R, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:150–2 (9 ref.) **(Jpn)**

[An automated system for evaluation of gastric motor function in duodenal ulcer] Gasparian SA, et al.
Med Tekh 1996 Nov-Dec;(6):6–9 (Eng. Abstr.) **(Rus)**

[The motor-evacuatory and acid-producing functions of the stomach in patients with complicated peptic ulcer combined with thyrotoxicosis] Ibadov IIu, et al.
Vestn Khir Im I I Grek 1995;154(4-6):22–3 (Eng. Abstr.) **(Rus)**

[Gastric emptying as an etiopathogenic factor in gastroesophageal reflux disease] Polonio García MJ, et al.
An Med Interna 1996 Jul;13(7):331–5 (Eng. Abstr.) **(Spa)**

[Parenteral nutrition and gastric emptying (letter)] Moreno Villares JM, et al. **Nutr Hosp** 1997 Jan-Feb;12(1):28 **(Spa)**

DRUG EFFECTS

The effect of cimetidine versus ranitidine on the gastric emptying rate of intensive care unit patients sustained on artificial respiration. Pelfrene E, et al.
Acta Gastroenterol Belg 1996 Oct-Dec;59(4):229–33

Review article: the use of botulinum toxin in the alimentary tract. Albanese A, et al. **Aliment Pharmacol Ther** 1995 Dec; 9(6):599–604 (20 ref.)

Cisapride and erythromycin prokinetic effects in

gastroparesis due to type 1 (insulin-dependent) diabetes mellitus. Annese V, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):599–603

The effect of intravenous erythromycin on solid meal gastric emptying in patients with chronic symptomatic post-vagotomy-antrectomy gastroparesis. Kendall BJ, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):381–5

Effects of octreotide, a somatostatin analogue, on gastric function evaluated by real-time ultrasonography. Okamoto E, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):177–84

Effect of dexloxiglumide and spiroglumide, two new CCK-receptor antagonists, on gastric emptying and secretion in the rat: evaluation of their receptor selectivity in vivo. Scarpignato C, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):411–9

Gastric emptying of semisolid meal unaltered by 3 days' administration of a sustained-release preparation of the nitric oxide donor, isosorbide dinitrate. Stacher G, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):593–7

The effect of chronic oral domperidone therapy on gastrointestinal symptoms, gastric emptying, and quality of life in patients with gastroparesis. Soykan I, et al. **Am J Gastroenterol** 1997 Jun;92(6):976–80

Sumatriptan, a selective 5-HT1 receptor agonist, induces a lag phase for gastric emptying of liquids in humans. Coulie B, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G902–8

Apolipoprotein A-IV acts in the brain to inhibit gastric emptying in the rat. Okumura T, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G49–53

Role of lipase in the regulation of upper gastrointestinal function in humans. Schwizer W, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G612–20

A new method to measure gastric emptying in conscious dogs: a validity study and effects of EM523 and L-NNA. Tanaka T, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G909–15

Cisapride improves gastric emptying in mechanically ventilated, critically ill patients. A randomized, double-blind trial. Heyland DK, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1678–83

Effect of bethanechol or erythromycin on gastric emptying in horses. Ringger NC, et al. **Am J Vet Res** 1996 Dec; 57(12):1771–5

A comparison of the effect of intrathecal and extradural fentanyl on gastric emptying in laboring women. Kelly MC, et al. **Anesth Analg** 1997 Oct;85(4):834–8

Intravenous erythromycin promotes gastric emptying prior to emergency anesthesia. Kopp VJ, et al. **Anesthesiology** 1997 Sep;87(3):703–5

Nitric oxide produced by inducible nitric oxide synthase delays gastric emptying in lipopolysaccharide-treated rats. Takakura K, et al. **Anesthesiology** 1997 Sep;87(3):652–7

Pharmacological characteristics of DQ-2511 as a prokinetic agent. Hatanaka S, et al. **Arch Int Pharmacodyn Ther** 1995 Nov-Dec;330(3):332–44

5-Hydroxytryptamine3 receptor and regulation of gastric emptying in rats. Ito C, et al. **Arch Int Pharmacodyn Ther** 1996 Mar-Apr;331(2):203–18

Effect of clonidine on gastric emptying of liquids. Asai T, et al. **Br J Anaesth** 1997 Jan;78(1):28–33

Differential effects of clonidine and dexmedetomidine on gastric emptying and gastrointestinal transit in the rat. Asai T, et al. **Br J Anaesth** 1997 Mar;78(3):301–7

Comparisons of the effects of enterostatin on food intake and gastric emptying in rats. Lin L, et al. **Brain Res** 1997 Jan 16;745(1-2):205–9

Microinjection of thyrotropin-releasing hormone analogue into the central nucleus of the amygdala stimulates gastric contractility in rats. Morrow NS, et al. **Brain Res** 1996 Sep 30;735(1):141–8

Effect of Phoneutria nigriventer spider venom on gastric emptying in rats. Bucaretchi F, et al. **Braz J Med Biol Res** 1996 Feb;29(2):205–11

Double-blind, randomized study of the effect of cisapride on gastric emptying in critically ill patients. Goldhill DR, et al. **Crit Care Med** 1997 Mar;25(3):447–51

Therapeutic potential of glucagon-like peptide 1 in type 2 diabetes. Nauck M. **Diabet Med** 1996 Sep;13(9 Suppl 5):S39–43 (33 ref.)

Infusion of pramlintide, a human amylin analogue, delays gastric emptying in men with IDDM. Kong MF, et al. **Diabetologia** 1997 Jan;40(1):82–8

Expression of muscarinic receptor subtypes in rat gastric smooth muscle: effect of M3 selective antagonist on gastric motility and emptying. Lin S, et al. **Dig Dis Sci** 1997 May; 42(5):907–14

Central action of adrenomedullin to inhibit gastric emptying in rats. Martínez V, et al. **Endocrinology** 1997 Sep; 138(9):3749–55

Clonidine inhibits gastric motility in the rat. Asai T, et al. **Eur J Anaesthesiol** 1997 May;14(3):316–9

Camostate- and caerulein-induced delay of gastric emptying in the rat: effect of CCK receptor antagonists. Varga G, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):153–9

Influence of the L-arginine-nitric oxide pathway on vasoactive intestinal polypeptide release and motility in the rat stomach in vitro. Willis S, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):59–64

General pharmacology of meloxicam—Part I: Effects on CNS, gastric emptying, intestinal transport, water, electrolyte and creatinine excretion. Engelhardt G, et al. **Gen Pharmacol** 1996 Jun;27(4):673–7

Effects of cisapride on abnormally prolonged endogastric alkalinity time and delayed gastric emptying in cirrhotic patients. Pimpo MT, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1678–84

The inhibitory effect of substance P on gastric motor function in the nucleus raphe obscurus is mediated via nitric oxide in the dorsal vagal complex. Krowicki ZK, et al. **J Auton Nerv Syst** 1996 May 6;58(3):177–80

Opioid and opioid-like drug effects on whole-gut transit measured by scintigraphy. Maurer AH, et al. **J Nucl Med** 1996 May;37(5):818–22

The effects of triethanolamine myristate, a fatty acid salt, on the bioavailability of riboflavin in dogs. Forusz H, et al. **Methods Find Exp Clin Pharmacol** 1996 Nov; 18(9):589–91

The effects of triethanolamine myristate, a fatty acid salt, on the availability of riboflavin in humans. Forusz H, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan-Feb; 19(1):73–6

Effects of gastroprokinetic agents on gastroparesis in streptozotocin-induced diabetic rats. Yamano M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):145–50

Two non-diabetic patients with delayed gastric emptying during CAPD effectively treated with erythromycin. de Graaf-Strukowska L, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2349–50

Comparative evaluation of DQ-2511, a novel gastroprokinetic agent, with cisapride in ameliorative action on experimentally induced delayed gastric emptying. Hatanaka S, et al. **Neurogastroenterol Motil** 1996 Sep; 8(3):227–33

Epidermal growth factor delays gastric emptying and small intestinal transit in suckling rats. Shinohara H, et al. **Pediatr Res** 1996 Feb;39(2):281–6

EM523L, a nonpeptide motilin agonist, stimulates gastric emptying and pancreatic polypeptide secretion. Okano H, et al. **Peptides** 1996;17(6):895–900

The effect of nitric oxide synthase blockade and indomethacin on gastric emptying and gastric contractility. Corak A, et al. **Pharmacology** 1997 Jun;54(6):298–304

Influence of gallopamil on the gastric effects of stress in conscious rats. Coşkun T, et al. **Pharmacology** 1996 Apr; 52(4):199–206

Devazepide attenuates dl-fenfluramine-induced suppression of gastric emptying but not food intake in the 17 h food-deprived rat. Francis J, et al. **Physiol Behav** 1997 Sep; 62(3):545–50

Peripheral atropinization does not change meal size controlled by prepyloric mechanisms. Rauhofer EA, et al. **Physiol Behav** 1996 Feb;59(2):237–40

Differential effects of subcutaneous GLP-1 on gastric emptying, antroduodenal motility, and pancreatic function in men. Schirra J, et al. **Proc Assoc Am Physicians** 1997 Jan;109(1):84–97

Intracisternal injection of peptide YY inhibits gastric emptying in rats. Chen CH, et al. **Regul Pept** 1996 Feb 22;61(2):95–8

Pathways mediating CRF-induced inhibition of gastric emptying in rats. Coşkun T, et al. **Regul Pept** 1997 Apr 30;69(3):113–20

Delayed gastric emptying during interferon-alpha therapy in patients with chronic hepatitis C: relief by cisapride. Nishibayashi H, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):547–51

A double-blind placebo-controlled study on the effects of omeprazole on gut hormone secretion and gastric emptying rate. Rasmussen L, et al. **Scand J Gastroenterol** 1997 Sep; 32(9):900–5

[Effect of shashen maidong decoction on gastric motility in vivo] Feng WH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):164–6 (Eng. Abstr.) **(Chi)**

[Gastric emptying inhibitory factor in the culture media of the human cancer cells] Nakamura N, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):153 **(Jpn)**

[Effect of erythromycin on early delayed gastric emptying after pylorus preserving pancreatoduodenectomy--case report] Ogawa T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):149–54 **(Jpn)**

[A basic study on gastric emptying test using barium grains and effect of drugs on gastric emptying in rats] Sakurai T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb; 93(2):75–82 (Eng. Abstr.) **(Jpn)**

[Disorders of gastric emptying in diabetes. II. Treatment] Czambor-Książek E, et al. **Wiad Lek** 1997;50(1-3):39–41 (20 ref.) (Eng. Abstr.) **(Pol)**

[Potable mineral waters as the correctors of the hormonal and motor-evacuatory disorders in chronic alcoholic intoxication] Polushina ND, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May-Jun; (3):37–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Gastric emptying of pancreatin granules and dietary lipids in pancreatic insufficiency. Nørregaard P, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):427–32

Postprandial cholecystokinin release and gastric emptying in patients with bulimia nervosa. Devlin MJ, et al. **Am J Clin Nutr** 1997 Jan;65(1):114–20

Delayed gastric emptying rate as a potential mechanism for lowered glycemia after eating sourdough bread: studies in humans and rats using test products with added organic acids or an organic salt. Liljeberg HG, et al. **Am J Clin Nutr** 1996 Dec;64(6):886–93

Delayed gastric emptying and decreased antral contractility in normal premenopausal women compared with men. Knight LC, et al. **Am J Gastroenterol** 1997 Jun;92(6):968–75

Delayed gastric emptying and postoperative ileus after nongastric abdominal surgery: part II. Resnick J, et al. **Am J Gastroenterol** 1997 Jun;92(6):934–40 (69 ref.)

Role of cholecystokinin as a regulator of solid and liquid gastric emptying in humans. Borovicka J, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G448–53

Gastric emptying of ingested fat emulsion in rats: implications for studies of fat-induced satiety. Friedman MI, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R688–92

Preservation of normal gastric emptying following gastric surgery by use of a muscle bridge. Anvari M, et al. **Am J Surg** 1996 Oct;172(4):345–9

Effect of egg consumption in healthy volunteers: influence of yolk, white or whole-egg on gastric emptying and on glycemic and hormonal responses. Pelletier X, et al. **Ann Nutr Metab** 1996;40(2):109–15

Gastric emptying and gastro-oesophageal reflux in preterm infants. Ewer AK, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F117–21

Gastrointestinal consequences of left ventricular assist device placement. el-Amir NG, et al. **ASAIO J** 1996 May-Jun; 42(3):150–3

Radionuclide imaging of gastric emptying [letter; comment] Leiper J. **Br J Sports Med** 1996 Sep;30(3):268. Comment on: Br J Sports Med 1996 Mar;30(1):20–3.

Gastric emptying in patients with constipation following childbirth and due to idiopathic slow transit. MacDonald A, et al. **Br J Surg** 1997 Aug;84(8):1141–3

Physiological regulation of gastric emptying and glucose absorption. Macdonald IA. **Diabet Med** 1996 Sep;13(9 Suppl 5):S11–5 (12 ref.)

Modulation of gastric emptying as a therapeutic approach to glycaemic control. Moyses C, et al. **Diabet Med** 1996 Sep;13(9 Suppl 5):S34–8 (19 ref.)

Is rapid gastric emptying in type II diabetic patients emptying the stomach in less time than in normal subjects? [letter; comment] Lipp RW, et al. **Diabetes Care** 1997 Jan;20(1):116 . Comment on: Diabetes Care 1996 May;19(5):468–71.

Prevalence and determinants of solid and liquid gastric emptying in unstable type I diabetes. Relationship to postprandial blood glucose concentrations. Lyrenås EB, et al. **Diabetes Care** 1997 Mar;20(3):413–8

Chronic administration of levosulpiride and glycemic control in IDDM patients with gastroparesis. Melga P, et al. **Diabetes Care** 1997 Jan;20(1):55–8

Slow gastric emptying in type I diabetes: relation to autonomic and peripheral neuropathy, blood glucose, and glycemic control. Merio R, et al. **Diabetes Care** 1997 Mar; 20(3):419–23

Accelerated gastric emptying of glucose in Zucker type 2 diabetic rats: role in postprandial hyperglycaemia. Green GM, et al. **Diabetologia** 1997 Feb;40(2):136–42

Efficacy of electrical stimulation at frequencies higher than basal rate in canine stomach. Familoni BO, et al. **Dig Dis Sci** 1997 May;42(5):892–7

What can be measured from surface electrogastrography. Computer simulations. Liang J, et al. **Dig Dis Sci** 1997 Jul; 42(7):1331–43

Gastric emptying rate of solids in patients with nonulcer dyspepsia. Maes BD, et al. **Dig Dis Sci** 1997 Jun; 42(6):1158–62

Botulinum toxin for refractory postoperative pyloric spasm. Wiesel PH, et al. **Endoscopy** 1997 Feb;29(2):132

Gastric emptying in soldiers during and after field exercise in the heat measured with the [13C]acetate breath test method. Mudambo KS, et al. **Eur J Appl Physiol** 1997; 75(2):109–14

Gastric emptying of solids in humans: improved evaluation by Kaplan-Meier plots, with special reference to obesity and gender. Grybäck P, et al. **Eur J Nucl Med** 1996 Dec; 23(12):1562–7

Physiological hyperglycemia slows gastric emptying in normal subjects and patients with insulin-dependent diabetes mellitus. Schvarcz E, et al. **Gastroenterology** 1997 Jul;113(1):60–6

Gastric and gall bladder emptying of a mixed meal are not coordinated in liver cirrhosis--a simultaneous sonographic study. Acalovschi M, et al. **Gut** 1997 Mar;40(3):412–7

Effect of distension and feeding on phasic changes in human proximal gastric tone. Ahluwalia NK, et al. **Gut** 1996 Nov; 39(5):757–61

Assessment of residual gastric volume and thirst in patients who drink before gastroscopy. Greenfield SM, et al. **Gut** 1996 Sep;39(3):360–2

Relation between cholecystokinin and antral innervation in the control of gastric emptying in the rat. Higham A, et al. **Gut** 1997 Jul;41(1):24–32

Scintigraphic measurement of gastric emptying and ultrasonographic assessment of antral area: relation to appetite. Hveem K, et al. **Gut** 1996 Jun;38(6):816–21

Gastrointestinal hormones in short bowel syndrome. Peptide YY may be the 'colonic brake' to gastric emptying [see comments] Nightingale JM, et al. **Gut** 1996 Aug; 39(2):267–72. Comment in: Gut 1997 Jan;40(1):157.

Peptide YY and electrolyte homeostasis [letter; comment] Playford RJ, et al. **Gut** 1997 Jan;40(1):157. Comment on: Gut 1996 Aug;39(2):267–72.

Gastrointestinal hormones and gastric emptying 20 years after jejunoileal bypass for massive obesity. Näslund E, et al. **Int J Obes Relat Metab Disord** 1997 May;21(5):387–92

Gastric emptying in the critically ill—the way forward? [editorial; comment] Frost P, et al. **Intensive Care Med** 1997 Mar;23(3):243–5. Comment on: Intensive Care Med 1997 Mar;23(3):256–60.

A model of gastric emptying using paracetamol absorption in intensive care patients [see comments] Tarling MM, et al. **Intensive Care Med** 1997 Mar;23(3):256–60. Comment in: Intensive Care Med 1997 Mar;23(3):243–5.

Personality deviation and gastric motility in patients with functional dyspepsia [published erratum appears in J Clin Gastroenterol 1996 Apr;22(3):249] Kawakami H, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S179–84

Electrogastrography and gastric emptying scintigraphy are complementary for assessment of dyspepsia. Parkman HP, et al. **J Clin Gastroenterol** 1997 Jun;24(4):214–9

Evidence of accelerated gastric emptying in longstanding diabetic patients after ingestion of a semisolid meal. Lipp RW, et al. **J Nucl Med** 1997 May;38(5):814–8

The 13C-octanoic acid breath test: a noninvasive technique to assess gastric emptying in preterm infants. Veereman-Wauters G, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):111–7

Central injection of a new corticotropin-releasing factor (CRF) antagonist, astressin, blocks CRF- and stress-related alterations of gastric and colonic motor function. Martínez V, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):754–60

Role of caloric content on gastric emptying in humans. Calbet JA, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):553–9

Dysfunction in gastric myoelectric and motor activity in Helicobacter pylori positive gastritis patients with non-ulcer dyspesia. Thor P, et al. **J Physiol Pharmacol** 1996 Sep;47(3):469–76

Gastric emptying in humans: influence of different regimens of parenteral nutrition. Swails WS, et al. **JPEN J Parenter Enteral Nutr** 1996 May–Jun;20(3):240–2

Upper limit for intestinal absorption of a dilute glucose solution in men at rest. Duchman SM, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):482–8

Gastric emptying: gender differences [letter] Baschetti R. **N Z Med J** 1997 Jun 27;110(1046):238

Use of echo planar imaging to demonstrate the effect of posture on the intragastric distribution and emptying of an oil/water meal. Boulby P, et al. **Neurogastroenterol Motil** 1997 Mar;9(1):41–7

Role of extrinsic innervation in carbohydrate-induced ileal modulation of pancreatic secretion and upper gut function. Sarr MG, et al. **Pancreas** 1997 Mar;14(2):166–73

Endogenous CCK in the control of gastric emptying of glucose and maltose. Moran TH, et al. **Peptides** 1997; 18(4):547–50

Confining ingested fluid to the stomach increases water and decreases saline intake in the rat [corrected] [published erratum appears in Physiol Behav 1997 Mar;61(3):475] Davis JD, et al. **Physiol Behav** 1997 Jan;61(1):127–30

Pathways mediating CRF-induced inhibition of gastric emptying in rats. Coşkun T, et al. **Regul Pept** 1997 Apr 30;69(3):113–20

Radionuclide imaging of abomasal emptying in sheep. Nicholson T, et al. **Res Vet Sci** 1997 Jan–Feb;62(1):26–9

Gastric emptying of 99mTc tagged solid food in gastric and duodenal ulceration. Engler-Pinto P Jr, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1995 Nov–Dec; 50(6):320–5

Gastric accommodation in functional dyspepsia. Berstad A, et al. **Scand J Gastroenterol** 1997 Mar;32(3):193–7 (57 ref.)

Helicobacter pylori infection and gastric emptying of indigestible solids in patients with dysmotility-like dyspepsia. Fock KM, et al. **Scand J Gastroenterol** 1997 Jul;32(7):676–80

Gastric emptying and first-pass metabolism of ethanol in elderly subjects with and without atrophic gastritis. Pedrosa MC, et al. **Scand J Gastroenterol** 1996 Jul; 31(7):671–7

Effect of progressive systemic sclerosis on antral myoelectrical activity and gastric emptying. Pfaffenbach B, et al. **Z Gastroenterol** 1996 Sep;34(9):517–21

[Possibilities of ultrasonography of gastric emptying] Prassler R, et al. **Wien Med Wochenschr** 1996;146(24):615–8 (Eng. Abstr.) **(Ger)**

[A basic study on gastric emptying test using barium grains and effect of drugs on gastric emptying in rats] Sakurai T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb; 93(2):75–82 (Eng. Abstr.) **(Jpn)**

[Evaluation of stomach emptying in patients with hyperthyroidism] Jonderko G, et al. **Pol Arch Med Wewn** 1996 Aug;96(2):111–6 (Eng. Abstr.) **(Pol)**

[Evaluation of gastric emptying in patients with hypothyroidism] Jonderko G, et al. **Pol Arch Med Wewn** 1996 Aug;96(2):117–23 (Eng. Abstr.) **(Pol)**

[Gastric motility disorders in diabetes. I. Pathophysiology, symptomatology and methods for additional testing] Zelechowski M, et al. **Wiad Lek** 1997;50(1–3):32–8 (20 ref.) (Eng. Abstr.) **(Pol)**

[Gastric emptying in patients with morbid obesity treated with a duodenal switch (letter)] Martínez Castro R, et al. **Rev Esp Enferm Dig** 1997 May;89(5):413–4 **(Spa)**

GASTRIC FISTULA

see related
GASTROSTOMY

COMPLICATIONS

Stomal ulcer after gastric bypass [see comments] MacLean LD, et al. **J Am Coll Surg** 1997 Jul;185(1):1–7. Comment in: J Am Coll Surg 1997 Jul;185(1):87–8.

DIAGNOSIS

Gastric ulcer perforation into the heart. Brullet E, et al. **Endoscopy** 1996 Mar;28(3):316–8

Gallbladder perforation with cholecystoantral fistula. Yang CC, et al. **J Clin Ultrasound** 1996 Nov–Dec;24(9):536–9

Gastrobronchial fistula in untreated lymphoma. Cameron EW, et al. **J Thorac Imaging** 1996 Spring;11(2):150–2 (15 ref.)

[Digestive hemorrhage as presentation of Bouveret's syndrome: 2 cases (letter)] Morcillo Aixelá A, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):571–2 **(Spa)**

ETIOLOGY

Benign ulcer in a hiatus hernia complicated with a pericardial fistula. Oosterbosch L, et al. **Acta Gastroenterol Belg** 1996 Oct–Dec;59(4):248–50

Gastro-aortic fistula: an uncommon complication of Nissen fundoplication. Wasvary H, et al. **Am Surg** 1997 May; 63(5):455–8

Benign gastrocolic fistula associated with peritonitis. Parks RW. **Br J Clin Pract** 1996 Mar;50(2):118–9

Gastropleural fistula due to gastric lymphoma presenting as tension pneumothorax and empyema. Warburton CJ, et al. **Eur Respir J** 1997 Jul;10(7):1678–9

Gastrocolic fistula in pediatric Crohn's disease. Gidvani V, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(2):347–9

Renogastric fistula secondary to a staghorn calculus. Curtis M, et al. **J Urol** 1996 Oct;156(4):1434–5

68-year-old man with peptic ulcer and diarrhea. Ribeiro AC, et al. **Mayo Clin Proc** 1997 Sep;72(9):879–82

[Diarrhea following the replacement of percutaneous endoscopic gastrostomy tube: to think of gastrocolic fistula (letter)] Hudziak H, et al. **Gastroenterol Clin Biol** 1996; 20(12):1139–40 **(Fre)**

METABOLISM

Effects of anaesthetic agents on basal and histamine-stimulated acid secretion in the fistula rat. Bastaki SM, et al. **Eur J Gastroenterol Hepatol** 1995 Dec; 7(12):1199–202

Comparative evaluation of the role of endogenous gastrin in basal acid secretion in conscious rats provided with chronic fistula and pylorus ligation. Nishida A, et al. **Jpn J Pharmacol** 1996 Jul;71(3):223–30

RADIOGRAPHY

Successful preoperative diagnosis of a cholecystogastric fistula using endoscopic retrograde cholangiography: report of a case. Nakamura M, et al. **Surg Today** 1997; 27(6):567–70

[Endoscopic diagnosis of a biliodigestive fistula of tuberculous origin revealing acquired immunodeficiency syndrome] Paupard T, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1055–8 (Eng. Abstr.) **(Fre)**

[A case of double pylorus on the lesser curvature of the gastric angle] Nakamura Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):104–8 **(Jpn)**

SURGERY

Laparoscopic management of cholecystogastric fistula. Nuzzo G, et al. **Endoscopy** 1997 Mar;29(3):226

Closure of a gastric tube-tracheal fistula by transposition of a pedicled sternocleidomastoid muscle flap. Sakamoto K, et al. **Surg Today** 1997;27(2):181–5

[A successful case of surgical treatment for the bronchogastric tube fistula originated in the reconstructed gastric tube after operation for esophageal cancer] Kojima M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May; 44(5):668–72 (Eng. Abstr.) **(Jpn)**

[Symptomatic treatment of a tracheogastric neoplastic fistula with an intragastric autoexpandable prosthesis (letter)] De Tomás Palacios J, et al. **Rev Esp Enferm Dig** 1996 Oct; 88(10):712–3 **(Spa)**

THERAPY

Upper gastrointestinal tract fistulae: endoscopic obliteration with fibrin sealant. Cellier C, et al. **Gastrointest Endosc** 1996 Dec;44(6):731–3

GASTRIC FUNDUS

see related
FUNDOPLICATION

BLOOD SUPPLY

[Fundus rotation gastroplasty: reduced incidence of anastomosis leaks after esophageal resection by improved blood supply and increased tube length] Schilling MK, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:801–7 (Eng. Abstr.) **(Ger)**

[Clinicopathological study of the fundic varices--blood vessel structure in gastric paries] Masuzaki T. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):83–91 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Gastric fundic gland polyps: a morphological study including mucin histochemistry, stereometry, and MIB-1 immunohistochemistry. Odze RD, et al. **Hum Pathol** 1996 Sep;27(9):896–903

Evaluation of an electrochemical microprobe for direct NO measurement in the rat gastric fundus. Smits GJ, et al. **J Pharmacol Toxicol Methods** 1997 Mar;37(2):97–103

CYTOLOGY

Cytology and microenvironment of somatostatin (D) cells in the gastric fundic mucosa of rodents. Kusumoto Y, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):105–12

Proliferation and migration kinetics of stem cells in the rat fundic gland. Yang DH, et al. **Histol Histopathol** 1997 Jul; 12(3):719–27

Origin of the chief cells of the human fundic glands. Madrid JF, et al. **Int J Dev Biol** 1996;Suppl 1:261S–262S

Ontogeny of proliferative cells in the rat fundic gland. Kasamo H, et al. **Kaibogaku Zasshi** 1996 Feb;71(1):20–9

DRUG EFFECTS

Involvement of vasoactive intestinal polypeptide in nicotine-induced relaxation of the rat gastric fundus. Curro D, et al. **Br J Pharmacol** 1997 Jul;121(6):1105–12

Effect of thiol modulators and Cu/Zn superoxide dismutase inhibition on nitrergic relaxations in the rat gastric fundus. De Man JG, et al. **Br J Pharmacol** 1996 Nov;119(5):1022–8

Effect of Cu2+ on relaxations to the nitrergic neurotransmitter, NO and S-nitrosothiols in the rat gastric fundus. De Man JG, et al. **Br J Pharmacol** 1996 Nov; 119(5):990–6

Influence of superoxide dismutase inhibition on the discrimination between NO and the nitrergic neurotransmitter in the rat gastric fundus. Lefebvre RA. **Br J Pharmacol** 1996 Aug;118(8):2171–7

Development of cholinergic and inhibitory non-adrenergic non-cholinergic responses in the rat gastric funds. Smits GJ, et al. **Br J Pharmacol** 1996 Aug;118(8):1987–94

Actions of galanin and some of its analogues on rat isolated gastric fundus. Sliwiński W, et al. **Fundam Clin Pharmacol** 1996;10(5):442–9

Effect of transforming growth factor alpha and interleukin 8 on somatostatin release from canine fundic D cells. Beales I, et al. **Gastroenterology** 1997 Jan;112(1):136–43

Sensitivity differences to 5-HT and carbachol in subsections of the isolated rat stomach fundus strip: an improved preparation. Riazi-Farzad B, et al. **J Pharmacol Toxicol Methods** 1996 Aug;35(4):217–21

Galanin, galantide and galanin (1–14)-[alpha-aminobutyric acid8]-scyliorhinin-I: structure dependent effects on the rat isolated gastric fundus. Korolkiewicz R, et al. **Pharmacol Res** 1997 Jan;35(1):7–16

Characterization of CCKA receptor mediated pepsinogen secretion in porcine chief cells. Meyer G, et al. **Pharmacology** 1996 Jul;53(1):48–59

ENZYMOLOGY

The role of sarcoplasmic reticulum and sarcoplasmic reticulum Ca2+-ATPase in the smooth muscle tone of the cat gastric fundus. Petkov GV, et al. **Pflugers Arch** 1996 Apr;431(6):928–35

IMMUNOLOGY

Sporadic fundic gland polyps: an immunohistochemical study of their antigenic profile. Declich P, et al. **Pathol Res Pract** 1996 Aug;192(8):808–15

METABOLISM

Interleukin-1 beta release from rat gastric fundus. Montuschi P, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):G275–81

M3 receptor mobilizes intracellular calcium in rat stomach fundus. Smaili SS, et al. **Ann N Y Acad Sci** 1997 May 30; 812:200–2

Ontogeny of sulphated glycoconjugate-producing cells in the rat fundic gland. Yang DH, et al. **Histochem J** 1996 Jan; 28(1):33–43

Cholinergic-nitrergic interactions in the guinea-pig gastric fundus. Milenov K, et al. **Neuropeptides** 1996 Aug; 30(4):365–71

PATHOLOGY

Antral and fundic D-cell numbers in Helicobacter pylori infection [see comments] Chamouard P, et al. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):361–5. Comment in: Eur J Gastroenterol Hepatol 1997 Apr;9(4):333–5.

Helicobacter pylori and acid secretion: where are we now?

[comment] McColl KE. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):333–5 (20 ref.). Comment on: Eur J Gastroenterol Hepatol 1997 Apr;9(4):361–5.
Gastric fundic gland polyps: a morphological study including mucin histochemistry, stereometry, and MIB–1 immunohistochemistry. Odze RD, et al. **Hum Pathol** 1996 Sep;27(9):896–903

PHYSIOLOGY

Pharmacologic characterization of muscarine receptor subtypes in rat gastric fundus mediating contractile responses. Milovanović DR, et al. **Indian J Med Res** 1997 May;105:239–45
The role of sarcoplasmic reticulum and sarcoplasmic reticulum Ca2+–ATPase in the smooth muscle tone of the cat gastric fundus. Petkov GV, et al. **Pflugers Arch** 1996 Apr;431(6):928–35

SECRETION

Truncated glucagon–like peptide–1 and oxyntomodulin stimulate somatostatin release from rabbit fundic D–cells in primary culture. Beales IL, et al. **Exp Physiol** 1996 Nov; 81(6):1039–41
Is resting state HCO3– secretion in frog gastric fundus mucosa mediated by apical Cl(–)–HCO3– exchange? Caroppo R, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):763–71

GASTRIC GLANDS see **GASTRIC MUCOSA**

GASTRIC HYPOTHERMIA see **HYPOTHERMIA, INDUCED**

GASTRIC INHIBITORY POLYPEPTIDE

see related
GASTROINTESTINAL AGENTS
[Gastric inhibitory polypeptide (GIP) and GIP receptor (GIPR)] Yasuda K, et al. **Nippon Rinsho** 1996 Apr; 54(4):1078–82 (14 ref.) (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

GIP(6–30amide) contains the high affinity binding region of GIP and is a potent inhibitor of GIP1–42 action in vitro. Gelling RW, et al. **Regul Pept** 1997 Apr 30;69(3):151–4

BLOOD

The entero–insular axis in polycystic ovarian syndrome. Gama R, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):190–5
Effect of egg consumption in healthy volunteers: influence of yolk, white or whole–egg on gastric emptying and on glycemic and hormonal responses. Pelletier X, et al. **Ann Nutr Metab** 1996;40(2):109–15
Concentrations of gut hormones in control and lactating sheep. Martin PA, et al. **Biochem Soc Trans** 1996 May; 24(2):288S
Reduced gastric inhibitory polypeptide but normal glucagon–like peptide 1 response to oral glucose in postmenopausal women with impaired glucose tolerance. Ahrén B, et al. **Eur J Endocrinol** 1997 Aug;137(2):127–31
Do gastric inhibitory polypeptide and glucagon–like peptide–1 (7–36) amide contribute to the hyperinsulinaemia of pregnancy? Gama R, et al. **Horm Metab Res** 1996 May; 28(5):252–4

CHEMISTRY

The insulinotropic region of gastric inhibitory polypeptide; fragment analysis suggests the bioactive site lies between residues 19 and 30. Morrow GW, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):65–72

GENETICS

Cell–specific expression of the glucose–dependent insulinotropic polypeptide gene in a mouse neuroendocrine tumor cell line. Boylan MO, et al. **J Biol Chem** 1997 Jul 11;272(28):17438–43
Incretin hormone expression in the gut of diabetic mice and rats. Berghöfer P, et al. **Metabolism** 1997 Mar;46(3):261–7

METABOLISM

Plasma and intestinal concentrations of GIP and GLP–1 (7–36) amide during suckling and after weaning in pigs. Knapper JM, et al. **Horm Metab Res** 1995 Nov; 27(11):485–90
Investigation of glucose–dependent insulinotropic polypeptide–(1–42) and glucagon–like peptide–1–(7–36) degradation in vitro by dipeptidyl peptidase IV using matrix–assisted laser desorption/ionization–time of flight mass spectrometry. A novel kinetic approach. Pauly RP, et al. **J Biol Chem** 1996 Sep 20;271(38):23222–9
The enteroinsular axis in dipeptidyl peptidase IV–negative rats. Pederson RA, et al. **Metabolism** 1996 Nov; 45(11):1335–41
GLP–1/GIP chimeric peptides define the structural requirements for specific ligand–receptor interaction of GLP–1. Gallwitz B, et al. **Regul Pept** 1996 May 7; 63(1):17–22
GIP(6–30amide) contains the high affinity binding region of GIP and is a potent inhibitor of GIP1–42 action in vitro. Gelling RW, et al. **Regul Pept** 1997 Apr 30;69(3):151–4
Postprandial glucose–dependent insulinotropic polypeptide and insulin responses in patients with chronic pancreatitis with and without secondary diabetes. Gómez–Cerezo J, et al. **Regul Pept** 1996 Dec 17;67(3):201–5

PHARMACOLOGY

The effect of GIP and glucagon–like peptides on intestinal basolateral membrane hexose transport. Cheeseman CI, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G477–82
Decreased glucose–induced cAMP and insulin release in islets of diabetic rats: reversal by IBMX, glucagon, GIP. Dachicourt N, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E725–32
Chronic desensitization of the glucose–dependent insulinotropic polypeptide receptor in diabetic rats. Tseng CC, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E661–6
Gastric inhibitory polypeptide activates MAP kinase through the wortmannin–sensitive and –insensitive pathways. Kubota A, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):171–5
Glucagon–like peptide I and glucose–dependent insulinotropic polypeptide stimulate Ca2+–induced secretion in rat alpha–cells by a protein kinase A–mediated mechanism. Ding WG, et al. **Diabetes** 1997 May; 46(5):792–800
Protein kinase A–dependent stimulation of exocytosis in mouse pancreatic beta–cells by glucose–dependent insulinotropic polypeptide. Ding WG, et al. **Diabetes** 1997 Apr;46(4):615–21
Localization of the domains involved in ligand binding and activation of the glucose–dependent insulinotropic polypeptide receptor. Gelling RW, et al. **Endocrinology** 1997 Jun;138(6):2640–3
Impaired cytosolic Ca2+ response to glucose and gastric inhibitory polypeptide in pancreatic beta–cells from triphenyltin–induced diabetic hamster. Miura Y, et al. **Endocrinology** 1997 Jul;138(7):2769–75
The hepatic vagal nerve is receptive to incretin hormone glucagon–like peptide–1, but not to glucose–dependent insulinotropic polypeptide, in the portal vein. Nishizawa M, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):149–54
Postprandial stimulation of insulin release by glucose–dependent insulinotropic polypeptide (GIP). Effect of a specific glucose–dependent insulinotropic polypeptide receptor antagonist in the rat. Tseng CC, et al. **J Clin Invest** 1996 Dec 1;98(11):2440–5
GIP regulates glucose transporters, hexokinases, and glucose–induced insulin secretion in RIN 1046–38 cells. Wang Y, et al. **Mol Cell Endocrinol** 1996 Jan 15;116(1):81–7

PHYSIOLOGY

GIP receptors and signal–transduction mechanisms. McIntosh CH, et al. **Acta Physiol Scand** 1996 Jul; 157(3):361–5 (30 ref.)
The metabolic role of GIP: physiology and pathology. Morgan LM. **Biochem Soc Trans** 1996 May;24(2):585–91 (50 ref.)
The insulinotropic region of gastric inhibitory polypeptide; fragment analysis suggests the bioactive site lies between residues 19 and 30. Morrow GW, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):65–72
Regulation of islet hormone gene expression by incretin hormones. Fehmann HC, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:56–65 (60 ref.)
Nutrient–induced secretion and metabolic effects of glucose–dependent insulinotropic polypeptide and glucagon–like peptide–1. Knapper JM, et al. **Proc Nutr Soc** 1996 Mar;55(1B):291–305 (82 ref.)

SECRETION

Regulation of thyroid hormones in the secretion of insulin and gastric inhibitory polypeptide in male rats. Doong ML, et al. **Metabolism** 1997 Feb;46(2):154–8
Acute incretin response to oral glucose is associated with stimulation of gastric inhibitory polypeptide, not glucagon–like peptide in young subjects. Limb C, et al. **Pediatr Res** 1997 Mar;41(3):364–7
Secretion of the incretin hormones glucagon–like peptide–1 and gastric inhibitory polypeptide correlates with insulin secretion in normal man throughout the day. Orskov C, et al. **Scand J Gastroenterol** 1996 Jul;31(7):665–70
The release of gastric inhibitory peptide, glucagon–like peptide–I, and insulin after oral glucose test in colectomized subjects. Palnaes Hansen C, et al. **Scand J Gastroenterol** 1997 May;32(5):473–7

GASTRIC JUICE

see related
ACHLORHYDRIA
PEPSIN A
PEPSINOGEN
Gastric juice protects against the development of esophageal adenocarcinoma in the rat. Ireland AP, et al. **Ann Surg** 1996 Sep;224(3):358–70; discussion 370–1
Gastric fluid measurement by blind aspiration in paediatric patients: a gastroscopic evaluation. Cook–Sather SD, et al. **Can J Anaesth** 1997 Feb;44(2):168–72
Gastric fluid volume in infants for pyloromyotomy. Cook–Sather SD, et al. **Can J Anaesth** 1997 Mar; 44(3):278–83
Mitogenic properties of human gastric juice. Kataoka H, et al. **Dig Dis Sci** 1997 Aug;42(8):1747–54
In vitro effects of simulated gastric juice on swallowed metal objects: implications for practical management. Li PK, et al. **Gastrointest Endosc** 1997 Aug;46(2):152–5
Standardization of gastric aspirate technique improves yield in the diagnosis of tuberculosis in children. Pomputius WF 3rd, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):222–6
Pulmonary protective and vasodilator effects of a standardized Panax ginseng preparation following artificial gastric digestion. Rimar S, et al. **Pulm Pharmacol** 1996 Aug; 9(4):205–9

CHEMISTRY

Ethanol resistive microbubble test: a modification of the stable microbubble test used to predict respiratory distress syndrome. Cho K, et al. **Acta Paediatr Jpn** 1996 Aug; 38(4):322–7
Determination of volatile N–nitrosamines in gastric juice and in urine by gas chromatography–mass spectrometry. Dallinga JW, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:63–6
Are intragastric N–nitroso compounds elevated after short–term acid suppression? Houben GM, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:83–7
Review of studies employing an improved rapid method of measuring total N–nitroso compounds as a group and its use at the bedside. Reed PI, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:89–93
Studies of stable N–nitroso compounds in human gastric juice––a review. Reed PI. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:75–82 (36 ref.)
Quantification of swallowed saliva in aspirated gastric juice. Tunio AM, et al. **Eur J Gastroenterol Hepatol** 1997 Mar; 9(3):279–82
The stability of amoxycillin, clarithromycin and metronidazole in gastric juice: relevance to the treatment of Helicobacter pylori infection. Erah PO, et al. **J Antimicrob Chemother** 1997 Jan;39(1):5–12
Ion–pair high–performance liquid chromatographic assay method for the assessment of clarithromycin stability in aqueous solution and in gastric juice. Erah PO, et al. **J Chromatogr B Biomed Appl** 1996 Jun 28;682(1):73–8
Determination of erythromycin in gastric juice and blood plasma by liquid chromatography and electrochemical detection. Toreson H, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):81–9
In vitro biodegradation of polyhydroxybutyrate–hydroxyvalerate microcapsules exposed to Hank's buffer, newborn calf serum, pancreatin and synthetic gastric juice. Atkins TW, et al. **J Microencapsul** 1997 Jan–Feb;14(1):35–49
Fasting gastric fluid and fecal polyamine concentrations in premature infants. Forget PP, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):389–92
Cocaine detection in neonatal gastric aspirate samples. O'Connor TA, et al. **J Perinatol** 1996 May–Jun;16(3 Pt 1):197–8
Adsorption of fluoxetine HCl by activated charcoal. Cooney DO, et al. **J Pharm Sci** 1997 May;86(5):642–4
N–nitroso compounds in the gastric juice of normal controls, patients with partial gastrectomies, and gastric cancer patients. Guadagni S, et al. **J Surg Oncol** 1996 Dec; 63(4):226–33
Gastric juice levels of lactoferrin and Helicobacter pylori infection. Nakao K, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):530–4
A liquid chromatography assay for the study of serum and gastric juice metronidazole concentrations in the treatment of Helicobacter pylori. Pollak PT. **Ther Drug Monit** 1996 Dec;18(6):678–87
[Gastric juice acidity in gastric ulcer] Petrov VP, et al. **Khirurgiia (Mosk)** 1996;(3):64–6 (Eng. Abstr.) **(Rus)**

CYTOLOGY

How accurate is the determination of blood in gastric juice? Comparison of peroxidase and porphyrin methods. Woods KL, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):333–7

DRUG EFFECTS

The effect of omeprazole on gastric juice viscosity, pH and bacterial counts [see comments] Goddard AF, et al. **Aliment Pharmacol Ther** 1996 Feb;10(1):105–9. Comment in: Aliment Pharmacol Ther 1996 Aug;10(4):669–70.
Effect of omeprazole on sodium and potassium output in pentagastrin–stimulated equine gastric contents. Merritt AM, et al. **Am J Vet Res** 1996 Nov;57(11):1640–4
The effects of famotidine, ranitidine and magnesium hydroxide/aluminium hydroxide on gastric fluid pH in adult horses. Murray MJ, et al. **Equine Vet J Suppl** 1992 Feb;(11):52–5
Are intragastric N–nitroso compounds elevated after short–term acid suppression? Houben GM, et al. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:83–7
Ongoing gastric acid inhibition is a confounding factor in Helicobacter pylori diagnosis. Jonkers D, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):49–53

GASTRIC JUICE

ENZYMOLOGY

Gastric juice urease activity as a diagnostic test for Helicobacter pylori infection. Mokuolu AO, et al. **Am J Gastroenterol** 1997 Apr;92(4):644–8

IMMUNOLOGY

Quantitative detection of secretory immunoglobulin A to Helicobacter pylori in gastric juice: antibody capture enzyme-linked immunosorbent assay. Hayashi S, et al. **J Clin Lab Anal** 1996;10(2):74–7

METABOLISM

Antiulcer effect of diltiazem in rats. Yong DG, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov;16(6):517–20

Transdermally administered nicotine accumulates in gastric juice. Lindell G, et al. **Eur J Clin Pharmacol** 1996; 51(3–4):315–8

Characterization of Ara h 1 by two-dimensional electrophoresis immunoblot and recombinant techniques: new digestion experiments with peanuts imitating the gastrointestinal tract. Becker WM. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):118–21

Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275–81

Development of a novel controlled-release system for gastric retention. Deshpande AA, et al. **Pharm Res** 1997 Jun; 14(6):815–9

Mutagenic activity of glycine upon nitrosation in the presence of chloride and human gastric juice: a possible role in gastric carcinogenesis. Gaspar J, et al. **Teratog Carcinog Mutagen** 1996;16(5):275–86

[The volume and pH of gastric fluid in elective surgical patients after preoperative oral fluid intake] Yatsu Y, et al. **Masui** 1996 Feb;45(2):200–4 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Quantitative study of Helicobacter pylori in gastric mucus by competitive PCR using synthetic DNA fragments. Furuta T, et al. **J Clin Microbiol** 1996 Oct;34(10):2421–5

Detection of Helicobacter pylori DNA in gastric juice by the polymerase chain reaction: comparison with findings in bacterial culture and the detection of tissue IgA and serum IgG antibodies against Helicobacter pylori. Matsukura N, et al. **J Gastroenterol** 1995 Dec;30(6):689–95

Helicobacter pylori infection in childhood: H. pylori isolation rate in gastric juice in relation to positive serum antibody rates. Okuda M, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:6–8

N-nitroso compounds in the gastric juice of normal controls, patients with partial gastrectomies, and gastric cancer patients. Guadagni S, et al. **J Surg Oncol** 1996 Dec; 63(4):226–33

Cytotoxin genes of Helicobacter pylori in chronic gastritis, gastroduodenal ulcer and gastric cancer: an age and gender matched case-control study. Matsukura N, et al. **Jpn J Cancer Res** 1997 Jun;88(6):532–6

[Development of a detection system for Helicobacter pylori DNA in gastric juice] Tamatsukuri S, et al. **Kansenshogaku Zasshi** 1996 Jul;70(7):710–6 (Eng. Abstr.) **(Jpn)**

[Detection of mycobacterial DNA with polymerase chain reaction in eye discharge and gastric juices in a case of scleritis] Tanemoto K, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan;101(1):97–101 (Eng. Abstr.) **(Jpn)**

PARASITOLOGY

Strongyloides stercoralis hyperinfection diagnosed by gastric cytology in an AIDS patient [letter] Sarangarajan R, et al. **AIDS** 1997 Mar;11(3):394–6

PHYSIOLOGY

Mechanisms of gastric juice-induced hyperpermeability of the cultured human tracheal epithelium. Ohrui T, et al. **Chest** 1997 Feb;111(2):454–9

Impact of Helicobacter pylori colonization on immunoreactive epidermal growth factor and transforming growth factor-alpha in gastric juice. Its potential pathogenetic implications. Marcinkiewicz M, et al. **Dig Dis Sci** 1996 Nov;41(11):2150–5

SECRETION

Gastric antisecretory effect of serotonin: quantitation of release and site of action. Lepard KJ, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E669–77

Helicobacter pylori lipopolysaccharide inhibits acid secretion in pylorus-ligated conscious rats. Ootsubo C, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):532–7

Gastric bicarbonate secretion and release of prostaglandin E2 are increased in duodenal ulcer patients but not in Helicobacter pylori-positive healthy subjects [see comments] Mertz-Nielsen A, et al. **Scand J Gastroenterol** 1996 Jan;31(1):38–43. Comment in: Scand J Gastroenterol 1996 Aug;31(8):831–2.

[The effect of preoperative oral fluid intake on the volume and pH of gastric contents in elective surgical patients--a comparison of tea with apple juice] Tanabe T, et al. **Masui** 1996 Aug;45(8):967–70 (Eng. Abstr.) **(Jpn)**

[Investigation of gastric juice (gastrin stimulating test, Histalog stimulating test)] Watanabe H, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:92–4 (5 ref.) **(Jpn)**

[Method of adaptometry in the evaluation of gastric secretory function in children under conditions of the North] Pokidysheva LI, et al. **Vestn Ross Akad Med Nauk** 1996; (5):42–5 (Eng. Abstr.) **(Rus)**

[Effects of histidine on gastric secretory function] Vasilevskaia LS, et al. **Vopr Pitan** 1996;(6):19–21 (Eng. Abstr.) **(Rus)**

GASTRIC LAVAGE

The palatability of five colonic lavage solutions. Diab FH, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):815–9

Gastrointestinal lavage reduces total body water. Buckland GH, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):123–5

Paracetamol overdose [letter; comment] Whittaker J. **J Accid Emerg Med** 1996 Jul;13(4):301–2. Comment on: J Accid Emerg Med 1996 Jan;13(1):46–8.

INSTRUMENTATION

The wide-channel endoscope optimizes the success of emergency endoscopy. Hintze RE, et al. **Acta Gastroenterol Belg** 1996 Oct–Dec;59(4):237–9

METHODS

A comparison of three gastric lavage methods using the radionuclide gastric emptying study. Shrestha M, et al. **J Emerg Med** 1996 Jul–Aug;14(4):413–8

VETERINARY

A device and technique for gastrointestinal lavage in the horse. Beroza GA. **Equine Vet J Suppl** 1989 Jun;(7):94–7

GASTRIC MUCIN

ANALYSIS

Mucus glycoproteins from pig gastric mucosa: identification ofdifferent mucin populations from the surface epithelium. Nordman H, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):903–10

Devazepide (L-364718) inhibits growth and increases expression of tumor markers in HT29-S-B6 cells. Forgue-Lafitte ME, et al. **C R Acad Sci III** 1996 Dec; 319(12):1133–8

Aberrant expression of gland-type gastric mucin in the surface epithelium of Helicobacter pylori-infected patients. Byrd JC, et al. **Gastroenterology** 1997 Aug;113(2):455–64

Characterization of apomucin expression in intrahepatic cholangiocarcinomas and their precursor lesions: an immunohistochemical study. Sasaki M, et al. **Hepatology** 1996 Nov;24(5):1074–8

Minimal deviation adenocarcinoma of the uterine cervix has abnormal expression of sex steroid receptors, CA125, and gastric mucin. Toki T, et al. **Int J Gynecol Pathol** 1997 Apr;16(2):111–6

BIOSYNTHESIS

The effects of omeprazole and famotidine on mucin and PGE2 release in the rat stomach [see comments] Yoshimura K, et al. **Aliment Pharmacol Ther** 1996 Feb;10(1):111–7. Comment in: Aliment Pharmacol Ther 1996 Aug;10(4):669–70.

CHEMISTRY

Cloning and analysis of human gastric mucin cDNA reveals two types of conserved cysteine-rich domains. Klomp LW, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):831–8

Comparative rheological investigation of crude gastric mucin and natural gastric mucus. Kocevar-Nared J, et al. **Biomaterials** 1997 May;18(9):677–81

Mouse submandibular gland salivary apomucin contains repeated N-glycosylation sites. Denny PC, et al. **Glycobiology** 1996 Jan;6(1):43–50

Molecular cloning and characterization of the gene encoding rat submandibular gland apomucin, Mucsmg. Albone EF, et al. **Glycoconj J** 1996 Oct;13(5):709–16

DRUG EFFECTS

Gastric mucosal damage accompanying changes in mucin induced by histamine in rats. Ohara S, et al. **Pharmacol Toxicol** 1995 Dec;77(6):397–401

GENETICS

Rapid communication: BamHI restriction fragment length polymorphism detected with a pig gastric mucin (MUC5AC) probe. Larson RG, et al. **J Anim Sci** 1996 Jun; 74(6):1443

METABOLISM

Glycosylation differences between pig gastric mucin populations: a comparative study of the neutral oligosaccharides using mass spectrometry. Karlsson NG, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):911–7

Alterations in porcine gastric mucin during the development of experimental ulceration. Mall AS, et al. **Digestion** 1997; 58(2):138–46

Abnormal expression of MUC1 apomucin and mature MUC1 mucin in biliary epithelial cells in various cystic liver diseases. Sasaki M, et al. **Hepatology** 1996 Sep;24(3):539–43

Evidence for degradation of gastrointestinal mucin by Candida albicans secretory aspartyl proteinase. Colina AR, et al. **Infect Immun** 1996 Nov;64(11):4514–9

Successful cultivation of a potentially pathogenic coccoid organism with trophism for gastric mucin. Lee SG, et al. **Infect Immun** 1997 Jan;65(1):49–54

Expression of MUC apomucins in normal pancreas and pancreatic tumours. Terada T, et al. **J Pathol** 1996 Oct; 180(2):160–5

SECRETION

Gastric mucin secretion from cultured rat epithelial cells. Tani S, et al. **Biol Pharm Bull** 1997 May;20(5):482–5

GASTRIC MUCOSA

Perinatal management of enteric duplication cysts of the tongue. Chen MK, et al. **Am J Perinatol** 1997 Mar; 14(3):161–3

Haemorrhage into a duodenal cyst with ectopic gastric epithelium, a rare cause of gastric outlet obstruction in an adult. Sand J, et al. **Ann Chir Gynaecol** 1997;86(1):76–8

High-grade dysplasia in an adenoma of the upper esophagus developing on heterotopic gastric mucosa. Mion F, et al. **Endoscopy** 1996 Sep;28(7):633–5

Simultaneous analysis of mucosal and submucosal hemodynamics using infrared electronic endoscopy: effects of intraluminal acid on ulcer scars. Tsuji S, et al. **Endoscopy** 1995 Nov;27(9):679–82

Acute gastrointestinal bleeding due to Meckel's diverticulum heterotopic gastric mucosa. Maieron R, et al. **Ital J Gastroenterol** 1996 May;28(4):225–8

Disseminated islands of gastric mucosa in jejunum and ileum detected by technetium-99m-pertechnetate scintigraphy. Heinrichs VM, et al. **J Nucl Med** 1997 May;38(5):818–20

Gastrointestinal cyst of the tongue: a possible duplication cyst of foregut origin. Ohbayashi Y, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):626–8; discussion 629–30

An unusual manifestation of Meckel's diverticulum: bleeding and perforation—a case report. Heinicke JM, et al. **Swiss Surg** 1997;3(3):97–9

[Gastric devascularization for acute gastric mucosal lesion and bleeding] Xu R, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):36–9 (Eng. Abstr.) **(Chi)**

[Gastrointestinal mucus] Paerregaard A. **Ugeskr Laeger** 1996 Sep 23;158(39):5423–7 (40 ref.) (Eng. Abstr.) **(Dan)**

[Blood flow and free radical oxidation of lipids in gastric and duodenal mucosa in complicated duodenal ulcers] Potashov LV, et al. **Khirurgiia (Mosk)** 1996;(5):40–2 (Eng. Abstr.) **(Rus)**

[X-ray endoscopic semiotics and diagnostic algorithm of radiation studies of preneoplastic gastric mucosa changes] Akberov RF, et al. **Vestn Rentgenol Radiol** 1997 May–Jun; (3):4–6 (Eng. Abstr.) **(Rus)**

[Heterotopic gastric mucosa in the ileum with perforated ulcer] Acea Nebril B, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):514–6 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Dieulafoy's disease. Fockens P, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):739–52 (49 ref.)

Cervical esophageal web caused by an inlet patch of gastric mucosa. Waring JP, et al. **South Med J** 1997 May; 90(5):554–5

ANATOMY & HISTOLOGY

A method for the estimation of the hemoglobin distribution in gastroscopic images. Englmeier KH, et al. **Int J Biomed Comput** 1996 Jun;41(3):153–65

BLOOD SUPPLY

CCK-evoked hyperemia in rat gastric mucosa involves neural mechanisms and nitric oxide. Heinemann A, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G253–8

Mechanisms mediating gastric hyperemic and acid responses to central TRH analog at a cytoprotective dose. Király A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G31–8

Assessment of gastric mucosal perfusion during simulated hypovolemia in healthy volunteers. Duranteau J, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1653–7

The contrasting effects of dobutamine and dopamine on gastric mucosal perfusion in septic patients. Nevière R, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1684–8

Continuous gastric tonometry as a monitor of intestinal perfusion [letter] Shaw AD, et al. **Anaesthesia** 1997 Jul; 52(7):709–10

Effect of cardiopulmonary bypass perfusion protocols on gut tissue oxygenation and blood flow. Ohri SK, et al. **Ann Thorac Surg** 1997 Jul;64(1):163–70

Gut mucosal perfusion in infants undergoing cardiopulmonary bypass: effect of preoperative captopril. Booker PD, et al. **Br J Anaesth** 1997 Jul;79(1):14–8

Effect of temperature during cardiopulmonary bypass on gastric mucosal perfusion. Croughwell ND, et al. **Br J Anaesth** 1997 Jan;78(1):34–8

Effects of dopamine on oxygen consumption and gastric mucosal blood flow during cardiopulmonary bypass in humans. Karzai W, et al. **Br J Anaesth** 1996 Nov; 77(5):603–6

Effect of a prostaglandin I2 analogue, beraprost sodium, on burn–induced gastric mucosal injury in rats. Battal MN, et al. **Burns** 1997 May;23(3):232–7

Gastric mucosal injury induced by local ischemia–reperfusion in rats. Role of endogenous endothelin–1 and free radical. Hassan M, et al. **Dig Dis Sci** 1997 Jul;42(7):1375–80

Brain ischemia and gastric mucosal damage in spontaneously hypertensive rats: the role of arterial vagal adrenoceptors. Kawakubo K, et al. **Dig Dis Sci** 1996 Dec;41(12):2383–91

Somatostatin reduces gastric mucosal blood flow in patients with portal hypertensive gastropathy: a randomized, double–blind crossover study. Li MK, et al. **Dig Dis Sci** 1996 Dec;41(12):2440–6

Gastric mucosal blood flow regulation in response to different stimuli. Méndez A, et al. **Dig Dis Sci** 1997 Sep; 42(9):1873–9

Glutathione and N–acetylcysteine reduce gastric mucosal blood flow in rats. Ovrebø KK, et al. **Dig Dis Sci** 1997 Aug;42(8):1765–74

Role of prostaglandins and calcitonin gene–related peptide in central vagal cholinergic–dependent protection against gastric injury in urethane–anesthetized rats. Kato K, et al. **Digestion** 1996;57(5):322–7

Role of nitric oxide in mucosal blood flow response and the healing of HCl–induced lesions in the rat stomach. Takeuchi K, et al. **Digestion** 1997;58(1):19–27

Noninvasive endoscopical measurement of gastric mucosal blood flow in the anesthetized rat. Yamamoto Y, et al. **Digestion** 1996 Nov–Dec;57(6):420–3

Dieulafoy's ulcer: combined endoscopic and laparoscopic treatment. Bouillot JL, et al. **Endoscopy** 1996 May; 28(4):394–5

Watermelon stomach [letter; comment] van Blankenstein M. **Endoscopy** 1996 Mar;28(3):328. Comment on: Endoscopy 1995 Feb;27(2):203–6.

Melatonin affords protection against gastric lesions induced by ischemia–reperfusion possibly due to its antioxidant and mucosal microcirculatory effects. Konturek PC, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):73–7

NSAIDS and the microcirculation of the stomach. Kawano S, et al. **Gastroenterol Clin North Am** 1996 Jun; 25(2):299–315 (33 ref.)

Effect of a short course of indomethacin on gastric mucosal blood flow using endoscopic laser–Doppler velocimetry. Sawant P, et al. **Indian J Gastroenterol** 1995 Oct; 14(4):137–8

Type of solution and PCO2 measurement errors during tonometry. Kolkman JJ, et al. **Intensive Care Med** 1997 Jun;23(6):658–63

Different responses of arterioles and venules in rat gastric mucosal microcirculation to endothelin–1 and endothelin–3. Ohno T, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S56–S65

Tissue–arterial PCO2 difference is a better marker of ischemia than intramural pH (pHi) or arterial pH–pHi difference. Schlichtig R, et al. **J Crit Care** 1996 Jun;11(2):51–6

Endoscopic laser therapy for watermelon stomach. Bourke MJ, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):832–4

Gastric hyperemic response during vagally mediated acid secretion by TRH analog in rats. Kato S, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1351–7

Phosphoramidon, an endothelin converting enzyme inhibitor attenuates local gastric ischemia–reperfusion injury in rats. Hassan M, et al. **Life Sci** 1997;61(10):PL 141–7

Role of adenosine and nitric oxide in the hyperemic response to superficial and deep gastric mucosal injury and H+ back–diffusion in cats. Gislason H, et al. **Scand J Gastroenterol** 1996 Jan;31(1):14–23

Acute erosions of the gastric mucosa in burned rats: effect of sucralfate. Samdal F, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):221–7

[Clinical and experimental study of faeces trogopterus on protection of gastric mucosa] Li Q. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Feb; 16(2):90–2 (Eng. Abstr.) **(Chi)**

[Microangioarchitecture of the mucosa of the antrum pyloricum in rabbit] Jackowiak H. **Anat Histol Embryol** 1996 Sep;25(3):155–9 (Eng. Abstr.) **(Ger)**

[Combined intraoperative and external irradiation of the celiac artery in the rabbit: the effects on the blood flow of the gastric mucosa] Dörr W, et al. **Strahlenther Onkol** 1996 Dec;172(12):669–75 (Eng. Abstr.) **(Ger)**

[Role of gastric vascular smooth muscle cells in the pathogenesis of stress ulcer] Tanaka M, et al. **J Smooth Muscle Res** 1995 Dec;31(6):446 **(Jpn)**

[Microcirculatory disturbances after surgical insults—important role of inflammatory cytokines] Wakabayashi G, et al. **Nippon Geka Gakkai Zasshi** 1996 Sep;97(9):759–64 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Measurement of gastric mucosal blood flow] Kashimura H, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:103–6 (10 ref.) **(Jpn)**

[Gastric mucosal congestion following endoscopic variceal ligation—analysis using reflectance spectrophotometry] Kanke K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):701–6 (Eng. Abstr.) **(Jpn)**

[Disturbance of regional blood flow and activity of lipid peroxidation in recurrent ulcer and their drug correction] Tsimmerman IS, et al. **Klin Med (Mosk)** 1996;74(4):31–4 (Eng. Abstr.) **(Rus)**

[The effect of nitric oxide on the regulation of gastric blood flow] Calatayud S, et al. **Gastroenterol Hepatol** 1997 May; 20 Suppl 2:33–6 (50 ref.) **(Spa)**

CHEMISTRY

Immunohistochemical localization of gastrin/CCK–B receptors in the dog and guinea–pig stomach. Helander HF, et al. **Acta Physiol Scand** 1997 Apr;159(4):313–20

Vitamin E and carotenoids in gastric biopsies: the relation to plasma concentrations in patients with and without Helicobacter pylori gastritis. Sanderson MJ, et al. **Am J Clin Nutr** 1997 Jan;65(1):101–6

Relation of lactoferrin levels in gastric mucosa with Helicobacter pylori infection and with the degree of gastric inflammation. Nakao K, et al. **Am J Gastroenterol** 1997 Jun;92(6):1005–11

Peripheral alpha–linked N–acetylglucosamine on the carbohydrate moiety of mucin derived from mammalian gastric gland mucous cells: epitope recognized by a newly characterized monoclonal antibody. Ishihara K, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):409–16

Ca2+–dependent membrane bound protein fraction from rabbit gastric mucosa contains a protein whose histidyl residue is phosphorylated. Urushidani T, et al. **Biochim Biophys Acta** 1997 Mar 27;1356(1):71–83

Continuous assessment of gastric intramucosal PCO2 and pH in hemorrhagic shock using capnometric recirculating gas tonometry. Guzman JA, et al. **Crit Care Med** 1997 Mar; 25(3):533–7

Plasma and gastric mucosal endothelin–1 concentrations in patients with peptic ulcer. Masuda E, et al. **Dig Dis Sci** 1997 Feb;42(2):314–8

Gastric tonometry as a method of visceral oxygenation monitoring in patients undergoing coronary revascularisation. Mrozek R, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1158–62

Gastric mucosal phospholipids in dogs with familial stomatocytosis–hypertrophic gastritis. Renooij W, et al. **Eur J Clin Invest** 1996 Dec;26(12):1156–9

Changes in rat gastric mucosal glycoproteins in portal hypertension. Wang JY, et al. **Eur Surg Res** 1997; 29(4):280–6

Aberrant expression of gland–type gastric mucin in the surface epithelium of Helicobacter pylori–infected patients. Byrd JC, et al. **Gastroenterology** 1997 Aug;113(2):455–64

H. pylori and gastric phospholipids of peptic ulcer [letter; comment] Koyama T, et al. **Gastroenterology** 1997 Mar; 112(3):1056–7. Comment on: Gastroenterology 1994 Aug;107(2):362–8.

An immunohistochemical study of the endocrine cells within the pancreas, intestine, and stomach of the gar (Lepisosteus osseus L.) Groff KE, et al. **Gen Comp Endocrinol** 1997 Apr; 106(1):1–16

Establishment of monoclonal antibodies against carbohydrate moiety of gastric mucins distributed in the different sites and layers of rat gastric mucosa. Ishihara K, et al. **Glycoconj J** 1996 Oct;13(5):857–64

Rapid size distribution and purity analysis of gastric mucus glycoproteins by size exclusion chromatography/multi angle laser light scattering. Jumel K, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):133–9

Validation of air tonometric measurement of gastric regional concentrations of CO2 in critically ill septic patients. Heinonen PO, et al. **Intensive Care Med** 1997 May; 23(5):524–9

Effect of nasogastric suction and ranitidine on the calculated gastric intramucosal pH [letter; comment] Kolkman JJ, et al. **Intensive Care Med** 1997 Jan;23(1):132. Comment on: Intensive Care Med 1996 Apr;22(4):319–23.

Advantage of buffered solutions or automated capnometry in air–filled balloons for use in gastric tonometry. Temmesfeld–Wollbrück B, et al. **Intensive Care Med** 1997 Apr;23(4):423–7

Expression of B7–1 and B7–2 costimulatory molecules by human gastric epithelial cells: potential role in CD4+ T cell activation during Helicobacter pylori infection. Ye G, et al. **J Clin Invest** 1997 Apr 1;99(7):1628–36

Gastric intramucosal pH changes after volume replacement with hydroxyethyl starch or crystalloid in patients undergoing elective abdominal aortic aneurysm repair. Marik PE, et al. **J Crit Care** 1997 Jun;12(2):51–5

Ultrastructural immunogold localization of osteopontin in human gastric mucosa. Qu–Hong, et al. **J Histochem Cytochem** 1997 Jan;45(1):21–33

[Measurement of gastric mucosal pH by tonometry in major abdominal surgery] Leclerc J, et al. **Ann Fr Anesth Reanim** 1996;15(7):1022–7 (Eng. Abstr.) **(Fre)**

[Sex hormone receptors in the gastric mucosa in gastric precancer and cancer] Iushkov PV. **Arkh Patol** 1997 May–Jun;59(3):24–7 (Eng. Abstr.) **(Rus)**

[The effect of selective proximal vagotomy on the content of prostaglandins and cyclic nucleotides of the blood and of the gastric mucosa] Valenkevich LN. **Lik Sprava** 1995 Sep–Dec;(9–12):55–7 (Eng. Abstr.) **(Rus)**

CYTOLOGY

Imprint cytology in the diagnosis of Helicobacter pylori infection. Rey E, et al. **Acta Cytol** 1997 Jul–Aug; 41(4):1144–6

Effects of rebamipide on bile acid–induced inhibition of gastric epithelial repair in a rabbit cell culture model. Watanabe S, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):927–32

Gastrin mediates the gastric mucosal proliferative response to feeding. Ohning GV, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G470–6

Cultured gastric parietal cells from the guinea pig: adherence, cell growth and stimulus coupling of Ca2+ and cyclic AMP. Giebel J, et al. **Anat Anz** 1996 Oct;178(5):405–12

Cytoarchitecture of the bovine pyloric epithelium during early ontogenesis. Sommer U, et al. **Anat Anz** 1996 Aug; 178(4):345–52

Oxyntic cell differentiation during physiological cell renewal in abomasal mucosa of adult cattle. Kressin M. **Anat Embryol (Berl)** 1996 Mar;193(3):259–69

Three–dimensional estimation of the glandular volume, and of the number and volume of epithelial cells in two glands from the antral mucosa of five healthy volunteers. Uribe A, et al. **APMIS** 1997 Jul;105(7):571–4

Anti–gastric acid secretory mechanism of 1,6–dihydro–2–[2–(2–methylpropoxy)anilino]–6–oxo–5–pyrimidinecarboxylic acid. Effect on mucosal mast cell. Ishizuka Y, et al. **Arzneimittelforschung** 1996 Sep; 46(9):919–22

Concomitant staining of mast and parietal cells in human gastric mucosa. Biernacka D, et al. **Biotech Histochem** 1996 Sep;71(5):234–6

Interleukin–8 stimulates leukocyte migration across a monolayer of cultured rabbit gastric epithelial cells. Effect associated with the impairment of gastric epithelial barrier function. Fujiwara Y, et al. **Dig Dis Sci** 1997 Jun; 42(6):1210–5

Ethanol retards gastric epithelial restoration in monolayer cultures. Murai T, et al. **Dig Dis Sci** 1996 Oct;41(10):2062–9

Evidence for a regulatory role for histamine in gastric enterochromaffin–like cell proliferation induced by hypergastrinemia. Modlin IM, et al. **Digestion** 1996; 57(5):310–21

Suitability of different staining methods for the identification of isolated and cultured cells from guinea pig (Cavia aperea porcellus) stomach. Giebel J, et al. **Eur J Morphol** 1995 Nov;33(4):359–72

Role of glutathione in nitric oxide–mediated injury to rat gastric mucosal cells. Wakulich CA, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):333–41

Isolation and culture of human gastric endothelial cells. Hull MA, et al. **Gastroenterology** 1996 Nov;111(5):1230–40

Helicobacter pylori lipopolysaccharide stimulates histamine release and DNA synthesis in rat enterochromaffin–like cells. Kidd M, et al. **Gastroenterology** 1997 Oct; 113(4):1110–7

Cytology and microenvironment of somatostatin (D) cells in the gastric fundic mucosa of rodents. Kusumoto Y, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):105–12

Gastric oxyntic cell structure as related to secretory activity. Ogata T. **Histol Histopathol** 1997 Jul;12(3):739–54 (0 ref.)

Proliferation and migration kinetics of stem cells in the rat fundic gland. Yang DH, et al. **Histol Histopathol** 1997 Jul; 12(3):719–27

G–cell density in the antral mucosa: a feasibility study. Pesce C, et al. **Histopathology** 1997 Apr;30(4):315–8

RGM1, a cell line derived from normal gastric mucosa of rat [letter] Kobayashi I, et al. **In Vitro Cell Dev Biol Anim** 1996 May;32(5):259–61

Immortalized gastric epithelial cell line GSM06 synthesizes hyaluronan under the influence of simian virus 40 large T–antigen expression. Goso Y, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):96–100

Stimulatory effect of transforming growth factor–alpha on gastric epithelial cell migration through proliferation. Nakajima N, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S45–9

Proprotein–processing endoprotease furin controls the growth and differentiation of gastric surface mucous cells. Konda Y, et al. **J Clin Invest** 1997 Apr 15;99(8):1842–51

Effects of growth factors and gut hormones on proliferation of primary cultured gastric mucous cells of guinea pig. Matsuda K, et al. **J Gastroenterol** 1996 Aug;31(4):498–504

Keratinocyte growth factor is an endogenous stimulant of rabbit gastric epithelial cell proliferation and migration in primary culture. Takahashi M, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1089–96

The role of gastric mast cells, enterochromaffin–like cells and parietal cells in the regulation of acid secretion. Kurbel S, et al. **Med Hypotheses** 1995 Dec;45(6):539–42 (22 ref.)

Enterostatin in gut endocrine cells—immunocytochemical evidence. Sörhede M, et al. **Peptides** 1996;17(4):609–14

Mast cell histamine in gastric secretion—a study on the isolated portion of a guinea pig stomach. Stanovnik L, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R219–20

G protein–coupled cholecystokinin–B/gastrin receptors are responsible for physiological cell growth of the stomach mucosa in vivo. Nagata A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11825–30

Perturbations in blood Ca(2)+ do not affect the activity of rat stomach enterochromaffin–like cells. Hakanson R, et al. **Scand J Gastroenterol** 1996 Mar;31(3):217–21

[Activation of proto-oncogenes induced by MNNG on primary culture of human gastric epithelium and immortalized human gastric epithelial cell line] Wang B, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):6-9 (Eng. Abstr.) **(Chi)**

[The differentiation of the surface mucous-cell line in the abomasum of the adult cow] Kressin M, et al. **Anat Histol Embryol** 1996 Sep;25(3):177-86 (Eng. Abstr.) **(Ger)**

[Effect of homogenized human pathogenic Helicobacter pylori on the viability of isolated rat gastric mucosal cells] Mózsik G, et al. **Orv Hetil** 1996 Aug 11;137(32):1749-52 (Eng. Abstr.) **(Hun)**

[The endocrine apparatus of the epithelium of the gastric mucosa in the steppe turtle (Testudo horsfieldi)] Ivanova VF, et al. **Morfologiia** 1997;111(1):85-90 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Thioctic acid protection against ethanol and indomethacin induced gastric mucosal lesions in rats. Gutierrez-Cabano CA, et al. **Acta Gastroenterol Latinoam** 1996;26(3):167-71

Pepsinogens and pepsins: aggresion on gastric mucosa and Helicobacter influence. Testino G, et al. **Acta Gastroenterol Latinoam** 1995;25(5):301-5

Prevention of indomethacin-induced acute gastric mucosal injury by spermine in the rat. Buzás G, et al. **Acta Physiol Hung** 1996;84(3):251-8

The fade of gastrin-stimulated gastric acid secretion in the rat is due to depletion of releasable mucosal histamine. Rønning K, et al. **Acta Physiol Scand** 1996 Aug; 157(4):487-91

Effect of inhibition of pentagastrin-stimulated acid secretion on gastric mucosal gland luminal pressure. Synnerstad I, et al. **Acta Physiol Scand** 1997 May;160(1):103-11

Protective effect of taurine on indomethacin-induced gastric mucosal injury. Son M, et al. **Adv Exp Med Biol** 1996; 403:147-55

Effect of ethanol on gastric mucus glycoprotein synthesis, translocation, transport, glycosylation, and secretion. Slomiany A, et al. **Alcohol Clin Exp Res** 1997 May; 21(3):417-23

Time to maximum effect of lansoprazole on gastric pH in normal male volunteers. Bell NJ, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):897-904

Effects of ranitidine bismuth citrate on gastric acid secretion and gastrin release in subjects with and without Helicobacter pylori infection. Ciociola AA, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):905-12

Morning versus evening dosing of lansoprazole 30 mg daily on twenty-four-hour intragastric acidity in healthy subjects. Fraser AG, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):523-7

Interaction of an aluminum-magnesium containing antacid and gastric mucus: possible contribution to the cytoprotective function of antacids. Grübel P, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):139-45

The effects of acid inhibitors on gastric mucus [letter; comment] Guslandi M. **Aliment Pharmacol Ther** 1996 Aug; 10(4):669-70. Comment on: Aliment Pharmacol Ther 1996 Feb;10(1):105-9. Comment on: Aliment Pharmacol Ther 1996 Feb;10(1):111-7.

Long-term treatment with lansoprazole for patients with Zollinger-Ellison syndrome. Hirschowitz BI, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):507-22

Long-term treatment with lansoprazole of patients with duodenal ulcer and basal acid output of more than 15 mmol/h. Hirschowitz BI, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):497-506

Implication of nitric oxide synthase activity in the genesis of water immersion stress-induced gastric lesions in rats: the protective effects of FK506. Hisanaga Y, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):933-40

Milk and egg phospholipids act as protective surfactants against luminal acid in Necturus gastric mucosa. Kivinen A, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):685-91

Omeprazole prevents indomethacin-induced gastric ulcers in rabbits. Lee M, et al. **Aliment Pharmacol Ther** 1996 Aug; 10(4):571-6

Suppressive effect of tetraprenylacetone on gastric atrophy induced by short-term administration of N-methyl-N'-nitro-N-nitrosoguanidine in rats. Miwa H, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):613-8

Indomethacin-induced morphological changes in the rat gastric mucosa, with or without prior treatment with two proton pump inhibitors. Morini G, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):615-23

The effect of indomethacin-induced gastric mucosal injury on 24-h intragastric acidity and plasma gastrin concentration in healthy volunteers. Rademaker JW, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):625-31

Prevention of water immersion stress-induced gastric lesions through the enhancement of nitric oxide synthase activity in rats. Tachi K, et al. **Aliment Pharmacol Ther** 1996 Feb; 10(1):97-103

YF476 is a new potent and selective gastrin/cholecystokinin-B receptor antagonist in vitro and in vivo. Takinami Y, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):113-20

Cytoprotective effect of bismuth subsalicylate in indomethacin-treated rats is associated with enhanced mucus bismuth concentration. Tanaka S, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):605-12

Effects of rebamipide on bile acid-induced inhibition of gastric epithelial repair in a rabbit cell culture model. Watanabe S, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):927-32

Gastric acidity influences the blood response to a beta-carotene dose in humans [see comments] Tang G, et al. **Am J Clin Nutr** 1996 Oct;64(4):622-6. Comment in: Am J Clin Nutr 1997 Sep;66(3):707.

Primary amino-bisphosphonates: a new class of gastrotoxic drugs--comparison of alendronate and aspirin. Graham DY, et al. **Am J Gastroenterol** 1997 Aug;92(8):1322-5

Double-blind, double-dummy endoscopic comparison of the mucosal protective effects of misoprostol versus ranitidine on naproxen-induced mucosal injury to the stomach and duodenum in rheumatic patients. Porro GB, et al. **Am J Gastroenterol** 1997 Apr;92(4):663-7

Pancreatic spasmolytic polypeptide protects the gastric mucosa but does not inhibit acid secretion or motility. McKenzie C, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G112-7

Protective action of gastrin-17 against alcohol-induced gastric injury in the rat: role in mucosal defense. Mercer DW, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G365-73

Insulin potentiates mitogenic effect of epidermal growth factor on cultured guinea pig gastric mucous cells. Ogihara S, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G104-12

Stimulation of gastric acid secretion by cAMP in a novel alpha-toxin-permeabilized gland model. Yao X, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C61-73

Stress, the brain, and the gastric mucosa. Kauffman GL. **Am J Surg** 1997 Sep;174(3):271-5

Effect of 1,6-dihydro-2[2-(2-methylpropoxy)anilino]-6-oxo-5-pyrimidineca rboxyli c acid on ethanol-induced microvascular injury in rats. Ishizuka Y, et al. **Arzneimittelforschung** 1996 Aug;46(8):779-83

Studies on the cytoprotective and antisecretory activity of ebrotidine. A review. Konturek PC, et al. **Arzneimittelforschung** 1997 Apr;47(4A):578-89 (73 ref.)

Effect of ebrotidine on ethanol-induced gastric mucosal damage in the rat. Comparative study with other H2-receptor antagonists. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):450-4

Study of the population of antral G-cells and enterochromaffin-like cells in the rat and mouse gastric mucosa after long-term treatment with ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):520-3

Gastroprotective properties of ebrotidine. A review. Slomiany BL, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):459-67 (49 ref.)

Sulfated lipids as inhibitors of pancreatic trypsin and chymotrypsin in epithelium of the mammalian digestive tract. Iwamori M, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):262-5

Gastric mucosal apoptosis induced by ethanol: effect of antiulcer agents. Piotrowski J, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):247-54

Helicobacter pylori lipopolysaccharide inhibition of gastric somatostatin receptor: effect of sucralfate. Piotrowski J, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):545-51

Effect of caffeine on mucus secretion and agonist-dependent Ca2+ mobilization in human gastric mucus secreting cells. Hamada E, et al. **Biochim Biophys Acta** 1997 Apr 24; 1356(2):198-206

Regulation of calcium-induced exocytosis from gastric chief cells by protein phosphatase-2B (calcineurin). Raufman JP, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):73-80

Lipid peroxidation in gastric mucosal lesions induced by indomethacin in rat. Tanaka J, et al. **Biol Pharm Bull** 1996 May;19(5):716-20

Protection by amylin of gastric erosions induced by indomethacin or ethanol in rats. Guidobono F, et al. **Br J Pharmacol** 1997 Feb;120(4):581-6

Metabolism of the macrolide immunosuppressant, tacrolimus, by the pig gut mucosa in the Ussing chamber. Lampen A, et al. **Br J Pharmacol** 1996 Apr;117(8):1730-4

Somatostatin sst2 receptor-mediated inhibition of parietal cell function in rat isolated gastric mucosa. Wyatt MA, et al. **Br J Pharmacol** 1996 Nov;119(5):905-10

Microinfusion of corticotropin-releasing factor into the locus coeruleus/subcoeruleus nuclei inhibits gastric acid secretion via spinal pathways in the rat. Mönnikes H, et al. **Brain Res** 1996 Jul 29;728(2):157-65

Reduction of burn-induced gastric mucosal injury by an endothelin receptor antagonist in rats. Battal NM, et al. **Burns** 1997 Jun;23(4):295-9

Gastric mucosal blood flow and gastric secretion following intravenous administration of 5-fluorouracil in anesthetized rats. Kakinuma S, et al. **Cancer Chemother Pharmacol** 1997; 39(4):357-60

Effect of 2-chloro-4-methylthiobutanoic acid in a rapid bioassay for gastric carcinogens. Furihata C, et al. **Cancer Lett** 1996 Nov 12;108(1):129-35

Extensive DNA damage induced by monochloramine in gastric cells. Suzuki H, et al. **Cancer Lett** 1997 May 19; 115(2):243-8

Nicotinamide derivatives as a new class of gastric (H+/K+)-ATPase inhibitors. III. Synthesis and gastric antisecretory activity of 2-[(2- and 4-aminobenzyl, and alpha-methylbenzyl)sulfinyl]-N-(4-pyridinyl) -3-pyridinecarboxamides. Terauchi H, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1177-82

Prophylactic effects of sucralfate and geraniin on ethanol-induced gastric mucosal damage in rats [published erratum appears in Chin J Physiol 1996;39(1):63] Hung CR, et al. **Chin J Physiol** 1995;38(4):211-7

Chilli, capsaicin and the stomach. Kang JY. **Clin Sci (Colch)** 1996 Sep;91(3):252-4 (25 ref.)

A prospective study of simplified omeprazole suspension for the prophylaxis of stress-related mucosal damage. Phillips JO, et al. **Crit Care Med** 1996 Nov;24(11):1793-800

Protection against chemically-induced oxidative gastrointestinal tissue injury in rats by bismuth salts. Bagchi D, et al. **Dig Dis Sci** 1997 Sep;42(9):1890-900

Suramin enhances ethanol-induced injury to gastric mucosa in rats. Blandizzi C, et al. **Dig Dis Sci** 1997 Jun; 42(6):1233-41

Repair of rat gastric mucosa: effect of 16,16-dimethyl prostaglandin E2. Cook GA, et al. **Dig Dis Sci** 1997 Mar; 42(3):654-60

Reversion by histamine H2-receptor antagonists of plasma membrane alterations in ethanol-induced gastritis. Hernández-Muñoz R, et al. **Dig Dis Sci** 1996 Nov; 41(11):2156-65

Acute effects of high-dose intragastric nicotine on mucosal defense mechanisms: an analysis of nicotine, prostaglandin E2, phospholipase A2, and phospholipids. Lindell G, et al. **Dig Dis Sci** 1997 Mar;42(3):640-4

Histological effect of (R)-alpha-methylhistamine on ethanol damage in rat gastric mucosa: influence on mucus production. Morini G, et al. **Dig Dis Sci** 1997 May; 42(5):1020-8

Relationship between changes of active oxygen metabolism and blood flow and formation, progression, and recovery of lesions is gastric mucosa of rats with a single treatment of compound 48/80, a mast cell degranulator. Ohta Y, et al. **Dig Dis Sci** 1997 Jun;42(6):1221-32

Pentadecapeptide BPC 157 interactions with adrenergic and dopaminergic systems in mucosal protection in stress. Sikirić P, et al. **Dig Dis Sci** 1997 Mar;42(3):661-71

Mechanism of acid secretory changes in rat stomach after damage by taurocholate: role of nitric oxide, histamine, and sensory neurons. Takeuchi K, et al. **Dig Dis Sci** 1997 Mar;42(3):645-53

Erythropoietin stimulates proliferation of rat-cultured gastric mucosal cells. Okada A, et al. **Digestion** 1996;57(5):328-32

Gastric toxicity of antiplatelet therapy with low-dose aspirin. Guslandi M. **Drugs** 1997 Jan;53(1):1-5 (40 ref.)

Statistical interpretation of the antisecretory effect of famotidine measured by intragastric pH-metry. Hunyady B, et al. **Eur J Clin Pharmacol** 1996;50(6):449-56

Absence of rebound effect with calcium carbonate. Simoneau G. **Eur J Drug Metab Pharmacokinet** 1996 Oct-Dec; 21(4):351-7

The potential synergistic effect of calcium channel blockers and alpha-tocopherol on gastric mucosal injury induced by ischaemia-reperfusion. al-Dohayan AD, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1107-10

Involvement of peroxynitrite in the lipid peroxidation induced by nitric oxide in rat gastric mucosa. Lamarque D, et al. **Eur J Pharmacol** 1996 Oct 10;313(1-2):R5-7

Epidermal growth factor stimulates the restitution of rat gastric mucosa in vitro. Miller CA, et al. **Exp Physiol** 1995 Nov;80(6):1009-18

A novel approach to reduce the unwanted gastric side-effects of orally administered non-steroidal anti-inflammatory drugs in rats. Balint GA. **Exp Toxicol Pathol** 1997 Feb; 49(1-2):61-3

Quinoxaline chemistry. Part 6--Synthesis and evaluation of antiulcer and gastroprotective activity of 2-[arylmethylmercapto-, arylmethylsulfinyl-, piperazinyl-3-R-substituted]quinoxalines. Piras S, et al. **Farmaco** 1996 Aug-Sep;51(8-9):569-77

Role of rebamipide on induction of heat-shock proteins and protection against reactive oxygen metabolite-mediated cell damage in cultured gastric mucosal cells. Hahm KB, et al. **Free Radic Biol Med** 1997;22(4):711-6

Effect on gastric secretion, gastrin and histamine release during and after long-term treatment by pirenzepine in dogs. Vatier J, et al. **Fundam Clin Pharmacol** 1996; 10(2):144-50

Gastric mucosa during treatment with lansoprazole: Helicobacter pylori is a risk factor for argyrophil cell hyperplasia [comment] Eissele R, et al. **Gastroenterology** 1997 Mar;112(3):707-17. Comment on: Gastroenterology 1997 Mar;112(3):1033-6.

Induction of cyclooxygenase 1 and 2 in the rat stomach during endotoxemia: role in resistance to damage. Ferraz JG, et al. **Gastroenterology** 1997 Jul;113(1):195-204

Epidermal growth factor modulates pepsinogen secretion in guinea pig gastric chief cells. Fiorucci S, et al. **Gastroenterology** 1996 Oct;111(4):945-58

Deranged hydrophobic barrier of the rat gastroduodenal mucosa after parenteral nonsteroidal anti-inflammatory drugs. Lugea A, et al. **Gastroenterology** 1997 Jun; 112(6):1931-9

Omeprazole induces high intraglandular pressure in the rat gastric mucosa. Synnerstad I, et al. **Gastroenterology** 1997 Apr;112(4):1221-30

Nitric oxide, prostaglandin, and sensory neurons in gastric mucosal blood flow response during acid secretion in rats. Kato S, et al. **Gen Pharmacol** 1997 Apr;28(4):513-9

Reversal of gastric somatostatin receptor inhibition by

Helicobacter pylori lipopolysaccharide with ebrotidine and sulglycotide. Piotrowski J, et al. **Gen Pharmacol** 1997 May; 28(5):705–8

Investigations on the protective action of Condonopsis pilosula (Dangshen) extract on experimentally-induced gastric ulcer in rats. Wang ZT, et al. **Gen Pharmacol** 1997 Mar;28(3):469–73

Gastric mucosal contraction and vascular injury induced by indomethacin precede neutrophil infiltration in the rat. Anthony A, et al. **Gut** 1996 Sep;39(3):363–8

Studies on gastric mucosal microcirculation. 1. The nature of regional variations induced by ethanol injury. Kalia N, et al. **Gut** 1997 Jan;40(1):31–5

Effects of aspirin and Helicobacter pylori on the gastroduodenal mucosal permeability to sucrose. Rabassa AA, et al. **Gut** 1996 Aug;39(2):159–63

Effects of Helicobacter pylori vacuolating cytotoxin on primary cultures of human gastric epithelial cells. Smoot DT, et al. **Gut** 1996 Dec;39(96):795–9

Gastroprotective effect of ranitidine bismuth citrate is associated with increased mucus bismuth concentration in rats. Tanaka S, et al. **Gut** 1996 Aug;39(2):164–71

Effect of gastric mucosal protection in nonrheumatoid patients with short-term nonsteroidal anti-inflammatory drug therapy: a prospective randomized multicenter study. Miller K. **Hepatogastroenterology** 1997 May-Jun; 44(15):872–9

NSAIDs and the gastrointestinal mucosa. Wolfe MM. **Hosp Pract (Off Ed)** 1996 Dec 15;31(12):37–44, 47–8 (6 ref.)

Effect of continuous infusion of GABA and baclofen on gastric secretion in anaesthetised rats. Goel RK, et al. **Indian J Exp Biol** 1996 Oct;34(10):978–81

Role of endogenous sulphydryls and neutrophil infiltration in the pathogenesis of gastric mucosal injury induced by piroxicam in rats. Avila JR, et al. **Inflamm Res** 1996 Feb; 45(2):83–8

Phospholipase A2 stimulates rat gastric epithelial cell line (RGM-1) migration. Minami T, et al. **Inflamm Res** 1997 Mar;46(3):103–7

Gastric mucosal injury by nonsteroidal anti-inflammatory drugs is reduced by (R)-alpha-methylhistamine and its pro-drugs in the rat. Morini G, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S101–2

The effect of acute bilateral adrenalectomy on serotonin-induced inhibition of gastric acid secretion and acute gastric mucosal injury in rats. Gidener S, et al. **Int J Exp Pathol** 1996 Aug;77(4):163–6

A subchronic toxicity study of Rokanol B-2 in rats. Krysiak B, et al. **Int J Occup Med Environ Health** 1996;9(4):351–64

Effect of sucralfate on gastric intramucosal pH in critically ill patients. Calvet X, et al. **Intensive Care Med** 1997 Jul; 23(7):738–42

Ultrastructural damage of gastric epithelium in patients taking NSAIDs. Caselli M, et al. **Ital J Gastroenterol** 1996 Dec;28 Suppl 4:16–8 (12 ref.)

Endoscopic aspects of gastroduodenal mucosa due to NSAIDs. Ruina M, et al. **Ital J Gastroenterol** 1996 Dec; 28 Suppl 4:9–11

The role of extracellular matrix in injury to gastric mucosa by indomethacin. Irwin FL Jr, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S18–23

Growth markers in the human gastric mucosa during adaptation to continued aspirin administration. Stachura J, et al. **J Clin Gastroenterol** 1996 Jun;22(4):282–7

Bombesin-induced gastrin release from canine G cells is stimulated by Ca2+ but not by protein kinase C, and is enhanced by disruption of rho/cytoskeletal pathways. Seensalu R, et al. **J Clin Invest** 1997 Sep 1;100(5):1037–46

Gastric antiulcer and cytoprotective effect of Commiphora molmol in rats. al-Harbi MM, et al. **J Ethnopharmacol** 1997 Jan;55(2):141–50

Eremomastax speciosa: effects of leaf aqueous extract on ulcer formation and gastric secretion in rats. Tan PV, et al. **J Ethnopharmacol** 1996 Nov;54(2–3):139–42

Prevention of NSAID-induced GI mucosal injury. Gerritz S, et al. **J Fam Pract** 1997 Feb;44(2):130–1

Role of L-arginine, a substrate for nitric oxide-synthase, in gastroprotection and ulcer healing. Brzozowski T, et al. **J Gastroenterol** 1997 Aug;32(4):442–52

Bosentan, a novel synthetic mixed-type endothelin receptor antagonist, attenuates acute gastric mucosal lesions induced by indomethacin and HCl in the rat: role of endogenous endothelin-1. Matsumaru K, et al. **J Gastroenterol** 1997 Apr;32(2):164–70

Therapeutic effect of egualen sodium (KT1-32), a new antiulcer agent, on chronic gastritis induced by sodium taurocholate in rats. Mochizuki S, et al. **J Gastroenterol** 1996 Dec;31(6):785–92

Recovery of mucin content in surface layer of rat gastric mucosa after HCl-aspirin-induced mucosal damage. Sakai T, et al. **J Gastroenterol** 1997 Apr;32(2):157–63

Effects of submucosal administration of endothelin-3 on rat gastric mucosa. Watanabe Y, et al. **J Gastroenterol** 1997 Apr;32(2):148–56

Restoration of gap junctions in the regenerative process of ethanol-induced gastric mucosal injury. Endo K, et al. **J Gastroenterol Hepatol** 1995 Sep-Oct;10(5):589–94

Characterization of a novel cell damage model induced by acid and pepsin using rat gastric epithelial cells: protective effect of sucralfate. Furukawa O, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):115–21

Cytoprotective effect of epidermal growth factor on acid- and pepsin-induced damage to rat gastric epithelial cells: roles of Na+/H+ exchangers. Furukawa O, et al. **J Gastroenterol Hepatol** 1997 May;12(5):353–9

Can misoprostol and omeprazole reduce nicotine and ethanol induced gastric mucosal injury? A quantitative macroscopic and microscopic analysis in rats. Hui WM, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):7–12

Gastroenteropancreatic effects of xenin in the dog. Feurle GE, et al. **J Pept Res** 1997 Apr;49(4):324–30

Synthesis, gastroprotective, antisecretory and anti-Helicobacter effect of N-[3-(3-(1-piperidinylmethyl) phenoxy)propyl]-hydroxyacetamide 2-hydroxypropane-1,2,3-tricarboxylate bismuth (3+) complex (MX1)-MX1. Ivanov C, et al. **J Pharm Pharmacol** 1996 Mar;48(3):297–301

Effects of selective beta-adrenoceptor antagonists on gastric ulceration in the rat. Kaan SK, et al. **J Pharm Pharmacol** 1997 Feb;49(2):200–5

The role of gastric mucosal sulphydryls in the ulcer-protecting effects of cisapride. López A, et al. **J Pharm Pharmacol** 1996 Jan;48(1):37–40

Secretin inhibits canine gastric acid secretion in response to pentagastrin by modulating gastric histamine release. Gerber JG, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):718–23

Preventive effect of rebamipide on gastric mucosal cell damage evoked by activation of formyl-methionyl-leucyl-phenylalanine receptors of rabbit neutrophils. Kim CD, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):478–83

The cytoprotective effect of leminoprazole on indomethacin-induced damage to rabbit gastric mucosal cells. Takahashi S, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):975–82

Sensitivity differences to 5-HT and carbachol in subsections of the isolated rat stomach fundus strip: an improved preparation. Riazi-Farzad B, et al. **J Pharmacol Toxicol Methods** 1996 Aug;35(4):217–21

Subserosal application of transforming growth factor-beta 1 in rats with chronic gastric ulcers: effect on gastric ulcer healing and blood flow. Ernst H, et al. **J Physiol Pharmacol** 1996 Sep;47(3):443–54

Effects of heat shock and teprenone on ethanol-induced damage to cultured rabbit gastric mucosal cells. Takahashi S, et al. **J Physiol Pharmacol** 1996 Sep;47(3):433–41

Effects of sucralfate and its components on indomethacin-induced damage to cultured rabbit gastric mucosal cells. Takahashi S, et al. **J Physiol Pharmacol** 1996 Dec;47(4):611–9

Effects of polyunsaturated fatty acids on bile acid-induced gastric mucosal injury. Mercer DW, et al. **J Surg Res** 1996 Feb 15;61(1):44–50

Course of apoptotic changes in the rat gastric mucosa caused by oral administration of fusarenon-X. Li J, et al. **J Vet Med Sci** 1997 Mar;59(3):191–9

Role of capsaicin-sensitive sensory neurons and nitric oxide in the protective effect of lansoprazole, a proton pump inhibitor, on the gastric mucosa in rats. Murakami I, et al. **Jpn J Pharmacol** 1996 Oct;72(2):137–47

Intracisternal injection of basic fibroblast growth factor reduces the severity of gastric mucosal lesions evoked by ethanol in rats. Watanabe Y, et al. **Jpn J Physiol** 1997 Apr; 47(2):231–3

Co-regulation of mucosal prostanoids and substance P by indomethacin in rat stomachs. Ko JK, et al. **Life Sci** 1997; 60(19):PL 277–81

Dopamine and the regulation of cell proliferation in gerbil (Meriones unguiculatus) pyloric mucosa. Wegner IC, et al. **Life Sci** 1997;60(22):2005–11

Effects of dietary restriction on experimental gastric mucosal injury in Fischer 344 rats. Lee M, et al. **Mech Ageing Dev** 1996 Jul 31;89(1):11–20

Central effect of melatonin against stress-induced gastric ulcers in rats. Kato K, et al. **Neuroreport** 1997 Jul 7; 8(9-10):2305–9

Gastrin partially mediates insulin-induced acid secretion in dogs. Kovacs TO, et al. **Peptides** 1996;17(4):583–7

The opioid peptide DAMME modulates histamine's content in gastric mucosa of the rat. Speroni E, et al. **Peptides** 1996; 17(6):957–64

Indomethacin does not alter the effect of pentagastrin on rat gastric defense mechanisms. Tanaka S, et al. **Peptides** 1996;17(1):155–9

Demonstration of sucralfate-mediated preservation of growth factor bioactivity in the presence of low pH with a human gastric epithelial cell line (AGS). Sheng H, et al. **Pharm Res** 1996 Jul;13(7):1122–6

Effect of cholecystokinin-B/gastrin receptor blockade on gastric acid secretion in conscious rats. Ding XQ, et al. **Pharmacol Toxicol** 1996 Dec;79(6):324–30

Gastric mucosal damage accompanying changes in mucin induced by histamine in rats. Ohara S, et al. **Pharmacol Toxicol** 1995 Dec;77(6):397–401

Cinitapride protects against ethanol-induced gastric mucosal injury in rats: role of 5-hydroxytryptamine, prostaglandins and sulfhydryl compounds. Alarcón-de-la-Lastra Romero C, et al. **Pharmacology** 1997 Apr;54(4):193–202

Influence of gallopamil on the gastric effects of stress in conscious rats. Coşkun T, et al. **Pharmacology** 1996 Apr; 52(4):199–206

Stimulation of mucin metabolism in rat gastric mucosa by histamine. Ichikawa T, et al. **Pharmacology** 1997 Jun; 54(6):305–11

Felodipine- and ethanol-induced gastric mucosal damage in rats. Liu XG, et al. **Pharmacology** 1995 Dec;51(6):391–7

Protective effect of acetaminophen against acute gastric mucosal lesions induced by ischemia-reperfusion in the rat. Nakamoto K, et al. **Pharmacology** 1997 Apr;54(4):203–10

Central and peripheral involvement of endogenous opioid peptides in gastric protection in stressed rats. Scoto GM, et al. **Pharmacology** 1996 Jan;52(1):56–60

Leminoprazole protects cultured gastric mucosal cells against damage caused by ethanol, indometacin and taurocholate. Takahashi S, et al. **Pharmacology** 1997 Mar;54(3):118–26

Gastric cytoprotection of the non-steroidal anti-inflammatory sesquiterpene, beta-caryophyllene [letter] Tambe Y, et al. **Planta Med** 1996 Oct;62(5):469–70

Inhibition of gastric acid secretion by the aqueous extract and purified extracts of Stachytarpheta cayennensis. Vela SM, et al. **Planta Med** 1997 Feb;63(1):36–9

A copper-complex reduced gastric damage caused by acetylsalicylic acid and ethanol. Franco L, et al. **Prostaglandins** 1996 May;51(5):331–8

Cytoprotective activity of cisapride on experimental gastric mucosal lesions induced by ethanol. Role of endogenous prostaglandins. Motilva V, et al. **Prostaglandins** 1996 Jul; 52(1):63–74

Nitric oxide stimulates prostaglandin synthesis in cultured rabbit gastric cells. Uno H, et al. **Prostaglandins** 1997 Mar; 53(3):153–62

Effects of PGE2 on amount and composition of high molecular weight glycoproteins released by human gastric mucous cells in primary culture. Enss ML, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Feb; 56(2):93–8

The in vitro effects of 6-methoxy-2-naphthylacetic acid, the active metabolite of nabumetone, on rat gastric mucosal eicosanoid synthesis and metabolism. Melarange R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):195–200

Effects of Fe(2+), Zn(2+), Cu(2+) and Se(4+) on the synthesis and catabolism of prostaglandins in rabbit gastric antral mucosa. Sakuma S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Mar; 54(3):193–7

LHRH and somatostatin effects on the cell proliferation of the gastric epithelium of suckling and weaning rats. Gama P, et al. **Regul Pept** 1996 Jul 5;63(2-3):73–8

Stimulatory effect of diazepam on gastric acid secretion in the continuously perfused stomach in rats under urethane anesthesia. Lin WC. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):157–68

Gastrin stimulates gastric mast cells in rabbits. Plebani M, et al. **Res Exp Med (Berl)** 1995;195(6):365–71

Gastroprotective activity of melatonin and its precursor, L-tryptophan, against stress-induced and ischaemia-induced lesions is mediated by scavenge of oxygen radicals. Konturek PC, et al. **Scand J Gastroenterol** 1997 May;32(5):433–8

Indomethacin decreases gastroduodenal mucosal bicarbonate secretion in humans. Mertz-Nielsen A, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1160–5

Gastric mucosal cell cycle regulation with ulcer healing by sulglycotide. Slomiany BL, et al. **Scand J Gastroenterol** 1997 Sep;32(9):873–7

Induction of tumor necrosis factor-alpha and apoptosis in gastric mucosal injury by indomethacin: effect of omeprazole and ebrotidine. Slomiany BL, et al. **Scand J Gastroenterol** 1997 Jul;32(7):638–42

Intragastric pH during treatment with omeprazole: role of Helicobacter pylori and H. pylori-associated gastritis. Verdú EF, et al. **Scand J Gastroenterol** 1996 Dec; 31(12):1151–6

Transient increase of blood histamine level induced by pentagastrin. Continuous monitoring by in vivo microdialysis. Watanabe H, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1144–50

Suppression of delayed-type contact sensitivity in the murine oral mucosa by prior intragastric administration of hapten. Ahlfors E, et al. **Scand J Immunol** 1997 Sep;46(3):268–73

Evaluation of the cell kinetics of MNNG-treated rat gastric mucosa based on AgNOR and ODC activity. Aoyagi K, et al. **Surg Today** 1996;26(10):777–81

Genotoxicity studies of quercetin and shikimate in vivo in the bone marrow of mice and gastric mucosal cells of rats. Ngomuo AJ, et al. **Vet Hum Toxicol** 1996 Jun;38(3):176–80

Epithelial response of the rat gastric mucosa to chronic superficial injury [see comments] Lacy ER, et al. **Yale J Biol Med** 1996 Mar-Apr;69(2):105–8. Comment in: Yale J Biol Med 1996 Mar-Apr;69(2):155–8.

The influence of food, beverages and NSAIDs on gastric acid secretion and mucosal integrity. Peterson WL. **Yale J Biol Med** 1996 Jan-Feb;69(1):81–4 (22 ref.)

Peptic activity and gastroduodenal mucosal damage. Raufman JP. **Yale J Biol Med** 1996 Jan-Feb;69(1):85–90 (27 ref.)

Proton pump inhibitory therapy: then and now. Schepp W. **Yale J Biol Med** 1996 Mar-Apr;69(2):175–86 (99 ref.)

Antiulcerogenicity of the flavonoid fraction from Erica andevalensis Cabezudo-Rivera. Reyes M, et al. **Z Naturforsch [C]** 1996 Jul-Aug;51(7–8):563–9

[The relationship between resorption and the morphological changes in the gastric mucosa of rats after acute and

chronic exposures to acetylsalicylic acid] Tsaneva M, et al. **Eksp Med Morfol** 1994;32(3-4):69-79 (Eng. Abstr.) **(Bul)**

[Comparison between effects of morning and evening administration of effervescent calcium carbasalate (equivalent of 160 mg aspirin) on the gastroduodenal mucosa in healthy volunteers] Berlin I, et al. **Pathol Biol (Paris)** 1997 Jun;45(6):514-20 (Eng. Abstr.) **(Fre)**

[Gastroduodenal tolerance and clinical effectiveness of therapy with lonazolac-calcium in rheumatic diseases] Kullich W, et al. **Wien Med Wochenschr** 1996; 146(17):459-64 (Eng. Abstr.) **(Ger)**

[Comparative endoscopic study of gastroduodenal tolerance of piroxicam-beta-cyclodextrin vs piroxicam] Müller P, et al. **Z Rheumatol** 1997 Mar-Apr;56(2):76-9 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori associated gastrointestinal mucosal lesions: is there an increased risk during therapy with nonsteroidal antirheumatic agents?] Pöllmann G, et al. **Z Rheumatol** 1997 Mar-Apr;56(2):71-5 (Eng. Abstr.) **(Ger)**

[Immuno-histopathologic changes in the gastrointestinal mucosa in patients with nickel contact allergy] Di Gioacchino M, et al. **G Ital Med Lav** 1995 Jan-Nov; 17(1-6):33-6 (Eng. Abstr.) **(Ita)**

[Morphological variations of the human gastric mucosa after omeprazole treatment: a scanning electron microscopic study] Magaudda L, et al. **Minerva Gastroenterol Dietol** 1996 Jun;42(2):61-9 (Eng. Abstr.) **(Ita)**

[Gastric mucosa changes caused by anti-inflammatory agents in childhood] Berni Canani M, et al. **Pediatr Med Chir** 1996 Jul-Aug;18(4):377-81 (Eng. Abstr.) **(Ita)**

[Effects of intravenous lansoprazole on acute gastric mucosal lesions and acid secretion] Inatomi N, et al. **Nippon Yakurigaku Zasshi** 1996 Dec;108(6):333-43 (Eng. Abstr.) **(Jpn)**

[Effects of lansoprazole on indomethacin-induced gastric bleeding and mucosal lesions in rats] Murakami I, et al. **Nippon Yakurigaku Zasshi** 1996 Dec;108(6):323-32 (Eng. Abstr.) **(Jpn)**

[A clinical trial on the effect of aluminum containing antacids on the course of duodenal ulcer healing and morphology of the gastric mucosa] Mach T. **Folia Med Cracov** 1995; 36(1-4):3-20 (Eng. Abstr.) **(Pol)**

[Morphology of the gastric mucosa in patients with duodenal ulcer treated with bismuth-containing drugs] Mach T. **Folia Med Cracov** 1995;36(1-4):53-75 (Eng. Abstr.) **(Pol)**

[The effect of selected cytoprotective drugs on alcohol-induced injury of isolated gastric mucosa cells] Mach T. **Folia Med Cracov** 1995;36(1-4):76-95 (Eng. Abstr.) **(Pol)**

[Mutually potentiating effect of joint action of carbacholine and histamine on secretion and the isoenzyme spectrum of pepsin from frog gastric mucosa cells] Tairov MM, et al. **Biokhimiia** 1996 Sep;61(9):1617-26 (Eng. Abstr.) **(Rus)**

[A method for stimulating the protective mechanisms of the gastric mucosa in peptic ulcer] Iakubov AV, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):30-2 (Eng. Abstr.) **(Rus)**

[Trypsinogen as a modifier of peptidergic influences on the secretion of the gastric and pancreatic glands] Korot'ko GF, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug-Sep; 82(8-9):87-95 (Eng. Abstr.) **(Rus)**

[Side effects of treatment with non-steroidal antiinflammatory agents and ways of their corrections] Grebneva LS, et al. **Klin Med (Mosk)** 1997;75(5):42-5 (45 ref.) **(Rus)**

[The dynamic cytochemical properties of the protective barrier of the stomach during dalargin administration] Mogil'naia GM, et al. **Morfologiia** 1996;109(3):72-5 (Eng. Abstr.) **(Rus)**

[THe characteristics of the action of Khi-Mi on gastric and hepatic secretion] Rymshina MV, et al. **Vopr Pitan** 1996; (1):9-11 (Eng. Abstr.) **(Rus)**

[Defense mechanisms of the gastric mucosa: functional bases and pharmacologic action] Esplugues JV, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):196-208 (40 ref.) **(Spa)**

[Chronic anemia protects against gastric damage by alcohol and aspirin. The role of the toxic radicals and lipid peroxidation] Marroni NP, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):497-502 (Eng. Abstr.) **(Spa)**

[The resistance of the superficial gastric epithelium to aggression] Soteras F, et al. **Gastroenterol Hepatol** 1997 May;20 Suppl 2:12-5 (24 ref.) **(Spa)**

[The effect of transitional metal cations on pepsinogen extrusion by dispersed gastric glands] Dubyts'kyi LO. **Fiziol Zh** 1995 Sep-Dec;41(5-6):12-7 (Eng. Abstr.) **(Ukr)**

EMBRYOLOGY

Proliferation and differentiation of cells from explants of fetal rat stomach. Tømmerås K, et al. **Acta Physiol Scand** 1997 Feb;159(2):155-61

Gastric epithelial morphogenesis in normal and transgenic mice. Karam SM, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1209-20

Differential expression of extracellular matrix components during the morphogenesis of human gastric mucosa. Tremblay E, et al. **Anat Rec** 1996 Aug;245(4):668-76

Differentiation of oxyntic cells and cell-matrix interactions during avian gastric gland morphogenesis. Koenig CS, et al. **Biol Res** 1994;27(3-4):177-92 (53 ref.)

Development of blood vessels of stomach wall in rabbits during prenatal period. Jackowiak H, et al. **Folia Morphol (Warsz)** 1996;55(4):281-3

Morphometric analysis of stomach wall organogenesis in rabbit. Jackowiak H, et al. **Folia Morphol (Warsz)** 1996; 55(4):284-6

ENZYMOLOGY

Organ distribution of aldehyde dehydrogenase activity in the newt, Notophthalmus viridescens. Settles HE, et al. **Adv Exp Med Biol** 1997;414:109-12

Expression, activities, and kinetic mechanism of human stomach alcohol dehydrogenase. Inference for first-pass metabolism of ethanol in mammals. Yin SJ, et al. **Adv Exp Med Biol** 1997;414:347-55

Role of catalase in rat gastric mucosal ethanol metabolism in vitro. Salmela KS, et al. **Alcohol Clin Exp Res** 1996 Sep; 20(6):1011-5

Implication of nitric oxide synthase activity in the genesis of water immersion stress-induced gastric lesions in rats: the protective effects of FK506. Hisanaga Y, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):933-40

Impaired fibrinolysis and increased protease levels in gastric and duodenal mucosa of patients with active duodenal ulcer. Herszènyi L, et al. **Am J Gastroenterol** 1997 May; 92(5):843-7

Parietal cell MAP kinases: multiple activation pathways. Nakamura K, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G640-9

Pepsinogen C gene product is a possible growth factor during gastric mucosal healing. Kishi K, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):17-20

Nitric oxide synthase and arginase in cells isolated from the rat gastric mucosa. Byrne CR, et al. **Biochim Biophys Acta** 1997 Apr 24;1356(2):131-9

Nicotinamide derivatives as a new class of gastric (H+/K+)-ATPase inhibitors II. Synthesis and structure-activity relationships of 2[(2,4-dimethoxybenzyl)sulfinyl]-N-(4-pyridinyl) pyridine-3-carboxamides [published erratum appears in Chem Pharm Bull (Tokyo) 1997 Jul;45(7):1234] Terauchi H, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):1027-38

Gastric lipase secretion after sham feeding and cholinergic blockade. Wøjdemann M, et al. **Dig Dis Sci** 1997 May; 42(5):1070-5

The beta 1,6-GlcNAc transferase activity present in hog gastric mucosal microsomes catalyses site-specific branch formation on a long polylactosamine backbone. Helin J, et al. **FEBS Lett** 1997 Aug 4;412(3):637-42

Neonatal injection of native proton pump antigens induces autoimmune gastritis in mice. Claeys D, et al. **Gastroenterology** 1997 Oct;113(4):1136-45

Induction of cyclooxygenase 1 and 2 in the rat stomach during endotoxemia: role in resistance to damage. Ferraz JG, et al. **Gastroenterology** 1997 Jul;113(1):195-204

Human stomach alcohol and aldehyde dehydrogenases: comparison of expression pattern and activities in alimentary tract. Yin SJ, et al. **Gastroenterology** 1997 Mar; 112(3):766-75

Enzymatic transfer of a beta1,6-linked N-acetylglucosamine to the alpha-galactose of globo-N-tetraose: in vitro synthesis of a novel hybrid pentasaccharide of lacto-globo type. Natunen J, et al. **Glycobiology** 1997 Jul;7(5):711-8

Treatment of Helicobacter pylori infection favourably affects gastric mucosal superoxide dismutases. Götz JM, et al. **Gut** 1997 May;40(5):591-6

Adenylate cyclase of gastric mucosa in patients with chronic renal failure. Gladziwa U, et al. **Int J Clin Pharmacol Ther** 1996 Nov;34(11):477-81

Milk-coagulating enzymes of tuna fish waste as a rennet substitute. Tavares JF, et al. **Int J Food Sci Nutr** 1997 May; 48(3):169-76

The phospholipid flippase activity of gastric vesicles. Suzuki H, et al. **J Biol Chem** 1997 Apr 18;272(16):10429-34

Proprotein-processing endoprotease furin controls the growth and differentiation of gastric surface mucous cells. Konda Y, et al. **J Clin Invest** 1997 Apr 15;99(8):1842-51

Relationship between interleukin-8 levels and myeloperoxidase activity in human gastric mucosa. Sasayama Y, et al. **J Gastroenterol Hepatol** 1997 Feb; 12(2):104-8

Three-dimensional structure of the porcine gastric H,K-ATPase from negatively stained crystals. Xian Y, et al. **J Struct Biol** 1997 Apr;118(3):169-77

Dose-dependent induction of both pepsinogen-altered pyloric glands and adenocarcinomas in the glandular stomach of C3H mice treated with N-methyl-N-nitrosourea. Yamamoto M, et al. **Jpn J Cancer Res** 1997 Mar;88(3):238-44

Inhibition of rabbit gastric glucosamine synthetase activity by Cu2+, Zn2+ and Se4+. Fujita T, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):203-8

Effect of 13-hydroperoxyoctadecadienoic acid on the glucosamine synthetase activity in rabbit gastric mucosa. Fujita T, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):209-18

Depletion of enterochromaffin-like cell histamine increases histidine decarboxylase and chromogranin A mRNA levels in rat stomach by a gastrin-independent mechanism. Andersson K, et al. **Scand J Gastroenterol** 1996 Oct; 31(10):959-65

Deficient gastric lipase secretion in pancreatic insufficiency. Wøjdemann M, et al. **Scand J Gastroenterol** 1997 Mar; 32(3):268-72

[The ultrastructural, histomorphological and histoenzymological changes in the gastric mucosa in different forms of chronic gastroduodenitis] Rodonezhskaia EV, et al. **Lik Sprava** 1996 Mar-Apr;(3-4):56-60 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

The mesenchymal winged helix transcription factor Fkh6 is required for the control of gastrointestinal proliferation and differentiation. Kaestner KH, et al. **Genes Dev** 1997 Jun 15;11(12):1583-95

IMMUNOLOGY

Characterisation of serum and mucosal antibodies against Helicobacter pylori. McBride PD, et al. **Biochem Soc Trans** 1997 May;25(2):334S

Intragastric immunization of rats with Entamoeba histolytica trophozoites induces cecal mucosal IgE, eosinophilic infiltration, and type I hypersensitivity. Navarro-García F, et al. **Clin Immunol Immunopathol** 1997 Mar;82(3):221-9

Association of antral mucosal levels of interleukin 8 and reactive oxygen radicals in patients infected with Helicobacter pylori. Zhang QB, et al. **Clin Sci (Colch)** 1997 Jan;92(1):69-73

Advances in mucosal immunology. McGowan I, et al. **Gastroenterol Clin North Am** 1997 Jun;26(2):145-73 (213 ref.)

Gastritis in urease-immunized mice after Helicobacter felis challenge may be due to residual bacteria. Ermak TH, et al. **Gastroenterology** 1997 Oct;113(4):1118-28

Local immunoglobulin G antibodies in the stomach may contribute to immunity against Helicobacter infection in mice. Ferrero RL, et al. **Gastroenterology** 1997 Jul; 113(1):185-94

Antigenic mimicry between Helicobacter pylori and gastric mucosa in the pathogenesis of body atrophic gastritis. Negrini R, et al. **Gastroenterology** 1996 Sep;111(3):655-65

Mucosal T cells and mast cells share common adhesion receptors. Smith TJ, et al. **Immunol Today** 1996 Feb; 17(2):60-3 (53 ref.)

Helicobacter pylori infection enhances mucosal interleukin-1 beta, interleukin-6, and the soluble receptor of interleukin-2. Basso D, et al. **Int J Clin Lab Res** 1996; 26(3):207-10

Sequential cellular and humoral responses in the abomasal mucosa and blood of Romney sheep dosed with Trichostrongylus axei. Pfeffer A, et al. **Int J Parasitol** 1996 Jul;26(7):765-73

Infection of gastrointestinal tract macrophages by HIV-1. Smith PD, et al. **J Leukoc Biol** 1997 Jul;62(1):72-7

Gastric antigen challenge releases gastrin and eicosanoids and protects against ethanol. Bacha EA, et al. **J Surg Res** 1997 Jun;70(1):69-74

Immunohistochemistry of HLA-H, the protein defective in patients with hereditary hemochromatosis, reveals unique pattern of expression in gastrointestinal tract. Parkkila S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2534-9

Characterization of lymphocytic infiltrates in Helicobacter pylori-associated gastritis. Hatz RA, et al. **Scand J Gastroenterol** 1996 Mar;31(3):222-8

Mucosal inflammation and disease in Helicobacter pylori infection. Veenendaal RA, et al. **Scand J Gastroenterol Suppl** 1996;218:86-91 (69 ref.)

Immune responses in mice after gastric and subcutaneous immunization with BCG. Ibsen MW, et al. **Scand J Immunol** 1997 Sep;46(3):274-80

New approaches to mucosal immunization. Langermann S. **Semin Gastrointest Dis** 1996 Jan;7(1):12-8 (67 ref.)

The immunologic aspects of human immunodeficiency virus infection in the gastrointestinal tract. Schneider T, et al. **Semin Gastrointest Dis** 1996 Jan;7(1):19-29 (108 ref.)

Basic and clinical overview of the mucosal immune system. Toy LS, et al. **Semin Gastrointest Dis** 1996 Jan;7(1):2-11 (125 ref.)

Immunohistological analysis of antibodies against ABH and other glycoconjugates in normal human pyloric and duodenal mucosae. Le Pendu J, et al. **Transfus Clin Biol** 1997;4(1):41-6

Exogenous nucleotides and gastrointestinal immunity. Walker WA. **Transplant Proc** 1996 Oct;28(5):2438-41 (22 ref.)

Isolation and phenotypic characterization of abomasal mucosal lymphocytes in the course of a primary Ostertagia ostertagi infection in calves. Almeria S, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1-2):87-98

Porcine gastric mucosa associated lymphoid tissue (MALT): stimulation by colonization with the gastric bacterial pathogen, Helicobacter pylori. Green WB, et al. **Vet Immunol Immunopathol** 1997 May;56(1-2):119-31

T cell subsets and Langerhans cells in the forestomach mucosa of adult sheep and sheep foetuses. Josefsen TD, et al. **Vet Immunol Immunopathol** 1996 May;51(1-2):101-11

Manifestations of the local gastric immune response in gnotobiotic piglets infected with Helicobacter pylori. Krakowka S, et al. **Vet Immunol Immunopathol** 1996 Jul; 52(3):159-73

[Relevance of antigastric autoantibodies in Helicobacter

pylori gastritis] Faller G, et al. **Verh Dtsch Ges Pathol** 1996; 80:181–4 (Eng. Abstr.) **(Ger)**

[Apoptosis in chronic gastritis: correlation of glandular apoptosis with antigastric autoantibodies] Steininger H, et al. **Verh Dtsch Ges Pathol** 1996;80:185–90 (Eng. Abstr.) **(Ger)**

[The immunomorphology of the mucosa of the bronchi and gastroduodenal zone in children with combined disease of the bronchi and gastrointestinal tract] Novikova AV, et al. **Arkh Patol** 1996 Nov–Dec;58(6):12–6 (Eng. Abstr.) **(Rus)**

[The immune system and the defense of the gastric mucosal barrier] Serrano Aulló MT, et al. **Gastroenterol Hepatol** 1997 May;20 Suppl 2:44–9 (37 ref.) **(Spa)**

[Immunologic response in Helicobacter pylori gastric infection] Terrés AM, et al. **Rev Esp Enferm Dig** 1996 Sep; 88(9):625–9 (43 ref.) **(Spa)**

INJURIES

Thermal effects of neutralization therapy and water dilution for acute alkali exposure in canines. Homan CS, et al. **Acad Emerg Med** 1997 Jan;4(1):27–32

Role of transforming growth factor–beta in the restitution of injured guinea pig gastric mucosa in vitro. Yanaka A, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G75–85

Cough–induced Mallory–Weiss tear in a child. Annunziata GM, et al. **Clin Pediatr (Phila)** 1996 Aug;35(8):417–9

Role of lipid peroxidation and antioxidants in gastric mucosal injury induced by the hypoxanthine–xanthine oxidase system in rats. Yoshikawa T, et al. **Free Radic Biol Med** 1997;23(2):243–50

Gastric mucosal injuries in children from inflatable low–profile gastrostomy tubes. Kazi S, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):75–8

Preventive effect of atropine on indomethacin–induced gastrointestinal mucosal and vascular damage in rats. Karádi O, et al. **Pharmacology** 1996 Jan;52(1):46–55

Role of adenosine and nitric oxide in the hyperemic response to superficial and deep gastric mucosal injury and H+ back–diffusion in cats. Gislason H, et al. **Scand J Gastroenterol** 1996 Jan;31(1):14–23

INNERVATION

CCK–evoked hyperemia in rat gastric mucosa involves neural mechanisms and nitric oxide. Heinemann A, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G253–8

Effects of several denervation procedures on distribution of calcitonin gene–related peptide and substance P immunoreactive in rat stomach. Suzuki T, et al. **Dig Dis Sci** 1997 Jun;42(6):1242–54

Somatostatin 2A receptor is expressed by enteric neurons, and by interstitial cells of Cajal and enterochromaffin–like cells of the gastrointestinal tract. Sternini C, et al. **J Comp Neurol** 1997 Sep 29;386(3):396–408

Intracisternal TRH and RX 77368 potently activate gastric vagal efferent discharge in rats. O–Lee TJ, et al. **Peptides** 1997;18(2):213–9

Laparoscopic highly selective vagotomy using CO2 laser: experimental study in dogs. Sakuramachi S, et al. **Surg Laparosc Endosc** 1996 Oct;6(5):355–61

METABOLISM

Comparison of gastric intramucosal pH measurements with oxygen supply, oxygen consumption and arterial lactate in patients with severe sepsis. Esen F, et al. **Adv Exp Med Biol** 1996;388:521–31

First–pass metabolism of ethanol is negligible in rat gastric mucosa. Levitt MD, et al. **Alcohol Clin Exp Res** 1997 Apr; 21(2):293–7

Enhanced cellular proliferation and p53 accumulation in gastric mucosa chronically infected with Helicobacter pylori. Hibi K, et al. **Am J Clin Pathol** 1997 Jul;108(1):26–34

Helicobacter pylori and duodenal ulcer: evidence for a histamine pathways–involving link. Bechi P, et al. **Am J Gastroenterol** 1996 Nov;91(11):2338–43

Endothelin–1 in the gastric mucosa in stress ulcers of critically ill patients. Michida T, et al. **Am J Gastroenterol** 1997 Jul;92(7):1177–81

Temporal expression of trefoil peptides in the TGF–alpha knockout mouse after gastric ulceration. Cook GA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1540–9

Epithelial localization of a reptilian Na+/H+ exchanger homologous to NHE–1. Harris SP, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1594–606

Effects of hemodilution on gastric regional perfusion and intramucosal pH. Kleen M, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):H1849–55

Constitutive NOS isoforms account for gastric mucosal NO overproduction in uremic rats. Mendez A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G894–901

Identification of an EGF/TGF–alpha receptor in primary cultures of guinea pig gastric mucous epithelial cells. Rutten MJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G604–12

Increased expression of EGFR in gastric mucosa of aged rats. Tureaud J, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G389–98

Administration of low–dose dopamine to nonoliguric patients with sepsis syndrome does not raise intramucosal gastric pH nor improve creatinine clearance. Olson D, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1664–70

Gastric tonometry and prediction of outcome in the critically ill. Arterial to intramucosal pH gradient and carbon dioxide gradient. Gomersall CD, et al. **Anaesthesia** 1997 Jul; 52(7):619–23

Monitoring gastric mucosal carbon dioxide pressure using gas tonometry: in vitro and in vivo validation studies. Creteur J, et al. **Anesthesiology** 1997 Sep;87(3):504–10

Endoprotease regulation of miniglucagon production. Bataille D, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:1–8; discussion 8–9 (12 ref.)

Lack of rearranged Tpr–met mRNA expression in human gastric cancer cell lines and gastric mucosa and carcinoma. Osaki M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2881–4

In vitro assessment of gastric mucosal transfer of anti–Helicobacter therapeutic agents. Goddard AF, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1246–9

Leukocyte depletion and ONO–5046, a specific inhibitor of granulocyte elastase, prevent a stress–induced decrease in gastric prostaglandin I2 in rats. Harada N, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):52–5

Induction of heparin binding epidermal growth factor–like growth factor and amphiregulin mRNAs by gastrin in the rat stomach. Tsutsui S, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):520–3

Glycosylation differences between pig gastric mucin populations: a comparative study of the neutral oligosaccharides using mass spectrometry. Karlsson NG, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):911–7

Mucus glycoproteins from pig gastric mucosa: identification ofdifferent mucin populations from the surface epithelium. Nordman H, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):903–10

Metabolism of arginine to citrulline by rat gastric mucosal cells. Byrne CR, et al. **Biochem Soc Trans** 1996 Aug; 24(3):480S

Perioperative mucosal pH, in orthotopic liver transplantation [letter; comment] Camprubi I, et al. **Br J Anaesth** 1996 Oct;77(4):560–1. Comment on: Br J Anaesth 1996 Jan;76(1):90–8.

Extensive DNA damage induced by monochloramine in gastric cells. Suzuki H, et al. **Cancer Lett** 1997 May 19; 115(2):243–8

Effect of alpha–fluoromethylhistidine–evoked histamine depletion on ultrastructure of endocrine cells in acid–producing mucosa of stomach in mouse, rat and hamster. Andersson K, et al. **Cell Tissue Res** 1996 Dec; 286(3):375–84

Immunohistochemical studies on EGF family growth factors in normal and ulcerated human gastric mucosa. Abe S, et al. **Dig Dis Sci** 1997 Jun;42(6):1199–209

Malondialdehyde and glutathione in rat gastric mucosa and effects of exogenous melatonin [letter] Akbulut H, et al. **Dig Dis Sci** 1997 Jul;42(7):1381–2

Expression of adhesion molecules and leukocyte recruitment into gastric mucosa following ischemia–reperfusion. Andrews FJ, et al. **Dig Dis Sci** 1997 Feb;42(2):326–32

Role of Na(+)-H(+)-antiport in restitution of isolated guinea pig gastric epithelium after superficial injury. Joutsi T, et al. **Dig Dis Sci** 1996 Nov;41(11):2187–94

Possible mechanism of increase in gastric mucosal PGE2 and PGI2 generation induced by ecabet sodium, a novel gastroprotective agent. Kinoshita M, et al. **Dig Dis Sci** 1997 Jan;42(1):83–90

Oxidant–induced activation of nuclear factor–kappa B in cultured guinea pig gastric epithelial cells. Rokutan K, et al. **Dig Dis Sci** 1997 Sep;42(9):1880–9

Transforming growth factor–alpha (TGF–alpha) levels in human proximal gastrointestinal epithelium. Effect of mucosal injury and acid inhibition. Scheiman JM, et al. **Dig Dis Sci** 1997 Feb;42(2):333–41

Histochemical analysis of hyperplastic stomach of TGF–alpha transgenic mice. Takagi H, et al. **Dig Dis Sci** 1997 Jan;42(1):91–8

Helicobacter pylori culture supernatant inhibits binding and proliferative response of human gastric cells to epidermal growth factor: implications for H.pylori interference with ulcer healing? Fujiwara Y, et al. **Digestion** 1997; 58(3):299–303

Production and activation of hepatocyte growth factor during the healing of rat gastric ulcers. Kinoshita Y, et al. **Digestion** 1997;58(3):225–31

Insulin stimulates production of glycoconjugate layers on the cell surface of gastric surface mucous cell line GSM06. Tabuchi Y, et al. **Digestion** 1997;58(1):28–33

Histidine decarboxylase expression and histamine metabolism in gastric oxyntic mucosa during hypergastrinemia and carcinoid tumor formation. Kölby L, et al. **Endocrinology** 1996 Oct;137(10):4435–42

Synthesis and release of phosphatidylcholine by isolated porcine gastric mucous cells in primary culture. Bernhard W, et al. **Eur J Clin Invest** 1996 Sep;26(9):797–802

Helicobacter pylori stimulates granulocyte–macrophage colony–stimulating factor (GM–CSF) production from cultured antral biopsies and a human gastric epithelial cell line. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):451–5

Role of gastric mucosal cytokines in the immunopathogenesis of Helicobacter pylori infection: new hypotheses but still few certitudes. Głupczynski Y, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):447–50

Stimulation of mucin biosynthesis in rat gastric mucosa by FRG–8813 and its structural analogs. Ichikawa T, et al. **Eur J Pharmacol** 1996 Feb 15;297(1–2):87–92

P2Y purinoceptors in gastric gland plasma membranes. Vallejo AI, et al. **Eur J Pharmacol** 1996 Sep 26; 312(2):209–14

Physiological regulation of gaba uptake by rat pyloric antral mucosa. Varro A, et al. **Exp Physiol** 1996 Jan;81(1):151–4

Hydroxyl radical is the major causative factor in stress–induced gastric ulceration. Das D, et al. **Free Radic Biol Med** 1997;23(1):8–18

Role of rebamipide on induction of heat–shock proteins and protection against reactive oxygen metabolite–mediated cell damage in cultured gastric mucosal cells. Hahm KB, et al. **Free Radic Biol Med** 1997;22(4):711–6

Role of lipid peroxidation and antioxidants in gastric mucosal injury induced by the hypoxanthine–xanthine oxidase system in rats. Yoshikawa T, et al. **Free Radic Biol Med** 1997;23(2):243–50

Absence of effect of Lewis A and Lewis B expression on adherence of Helicobacter pylori to human gastric cells. Clyne M, et al. **Gastroenterology** 1997 Jul;113(1):72–80

Metabolism of alcohol by human gastric cells: relation to first–pass metabolism [see comments] Haber PS, et al. **Gastroenterology** 1996 Oct;111(4):863–70. Comment in: Gastroenterology 1996 Oct;111(4):1143–4.

Induction of cyclooxygenase 2 in gastric mucosal lesions and its inhibition by the specific antagonist delays healing in mice [see comments] Mizuno H, et al. **Gastroenterology** 1997 Feb;112(2):387–97. Comment in: Gastroenterology 1997 Feb;112(2):645–8.

Exogenous motilin stimulates endogenous release of motilin through cholinergic muscarinic pathways in the dog. Mochiki E, et al. **Gastroenterology** 1996 Dec;111(6):1456–64

First–pass metabolism of ethanol: an overview [editorial; comment] Sato N, et al. **Gastroenterology** 1996 Oct; 111(4):1143–4. Comment on: Gastroenterology 1996 Oct;111(4):863–70.

Central vagal activation increases mucus gel thickness and surface cell intracellular pH in rat stomach. Tanaka S, et al. **Gastroenterology** 1997 Feb;112(2):409–17

Gastrin biosynthesis in the antrum of patients with pernicious anemia. Varro A, et al. **Gastroenterology** 1997 Mar; 112(3):733–41

Gastric permeability in celiac disease [letter] Vogelsang H, et al. **Gastroenterology** 1997 Jun;112(6):2163

Helicobacter pylori cagA gene and expression of cytokine messenger RNA in gastric mucosa. Yamaoka Y, et al. **Gastroenterology** 1996 Jun;110(6):1744–52

Expression of trefoil peptides in the gastric mucosa of transgenic mice overexpressing transforming growth factor–alpha. Goldenring JR, et al. **Growth Factors** 1996; 13(1–2):111–9

Prostaglandin E2 and prostaglandin F2 alpha biosynthesis in human gastric mucosa: effect of chronic alcohol misuse. Bode C, et al. **Gut** 1996 Sep;39(3):348–52

Gastric mucosal secretion of interleukin–10: relations to histopathology, Helicobacter pylori status, and tumour necrosis factor–alpha secretion. Bodger K, et al. **Gut** 1997 Jun;40(6):739–44

Sulphydryl blocker induced gastric damage is ameliorated by scavenging of free radicals. Karmeli F, et al. **Gut** 1996 Jun;38(6):826–31

Mucosal expression and luminal release of epidermal and transforming growth factors in patients with duodenal ulcer before and after eradication of Helicobacter pylori. Konturek PC, et al. **Gut** 1997 Apr;40(4):463–9

Blood groups Lewis(b) and ABH expression in gastric mucosa: lack of inter–relation with Helicobacter pylori colonisation and occurrence of gastric MALT lymphoma. Oberhuber G, et al. **Gut** 1997 Jul;41(1):37–42

Differential expression of oestrogen receptor and oestrogen inducible genes in gastric mucosa and cancer. Singh S, et al. **Gut** 1997 Apr;40(4):516–20

Il–2 receptor expression on gastric mucosa T lymphocytes is enhanced in duodenal ulcer patients compared with non–ulcer dyspeptic patients. Ihan A, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1665–70

Expression of nitric oxide synthase in mucosal cells of the canine colon. Torihashi S, et al. **Histochem Cell Biol** 1996 Jan;105(1):33–41

Alterations in gastrin cells induced by short–term omeprazole treatment in the rat antrum: an immunocytochemical and in situ hybridization study. Bolkent S, et al. **Histochem J** 1997 Jun;29(6):479–85

Pancreatic metaplasia of the human gastric mucosa is associated with high expression of transforming growth factor alpha but not of epidermal growth factor. Stachura J, et al. **Histopathology** 1995 Dec;27(6):509–15

Determinants of Helicobacter pylori pathogenicity. Labigne A, et al. **Infect Agents Dis** 1996 Oct;5(4):191–202 (110 ref.)

Differential localization of transforming growth factor–beta isoforms in human gastric mucosa and overexpression in gastric carcinoma. Naef M, et al. **Int J Cancer** 1997 Apr 10;71(2):131–7

Does tissue acidosis in sepsis indicate tissue hypoperfusion? [editorial] Fink MP. **Intensive Care Med** 1996 Nov; 22(11):1144–6

Comparison of commonly used clinical indicators of hypovolaemia with gastrointestinal tonometry. Hamilton–Davies C, et al. **Intensive Care Med** 1997 Mar; 23(3):276–81

Comparison of norepinephrine and dobutamine to epinephrine for hemodynamics, lactate metabolism, and gastric tonometric variables in septic shock: a prospective,

randomized study. Levy B, et al. **Intensive Care Med** 1997 Mar;23(3):282–7

The accuracy of gastric tonometry: a matter of mathematical thinking [letter] Michagin G, et al. **Intensive Care Med** 1996 Nov;22(11):1273

Comparison of gastric air tonometry with standard saline tonometry. Tzelepis G, et al. **Intensive Care Med** 1996 Nov; 22(11):1239–43

Age affects glutathione content and glutathione–transferase activity in human gastric mucosa. Loguercio C, et al. **Ital J Gastroenterol** 1996 Dec;28(9):477–81

Immortalized gastric epithelial cell line GSM06 synthesizes hyaluronan under the influence of simian virus 40 large T-antigen expression. Goso Y, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):96–100

The primary structure of the major pepsinogen from the gastric mucosa of tuna stomach. Tanji M, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):647–56

Suppressor and activator functions mediated by a repeated heptad sequence in the liver fatty acid–binding protein gene (Fabpl). Effects on renal, small intestinal, and colonic epithelial cell gene expression in transgenic mice. Simon TC, et al. **J Biol Chem** 1997 Apr 18;272(16):10652–63

The association among gastric mucosal pH, endotoxemia, and low systemic vascular resistance after cardiopulmonary bypass. Myles P, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):195–200

Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275–81

Modeling of the gastric gel mucus layer: application to the measured pH gradient. Livingston EH, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S120–4

Role of endogenous acid in gastric mucosal injury induced by local ischemia–reperfusion in the rat. Seno K, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S108–12

Localization of sulfatides in the epithelial lining of gastric mucosa: studies with a monoclonal antibody to sulfatides. Sugano K, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S98–103

Active oxygen species generation by circulating leukocytes and gastric submucosal microcirculatory disturbances in the early period after thermal injury. Yoshida M, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S87–92

Relationship between ventilator–associated pneumonia and intramucosal gastric pHi: a case–control study. Hernández C, et al. **J Crit Care** 1996 Sep;11(3):122–8

Poor in vivo reproducibility of gastric intramucosal pH determined by saline–filled balloon tonometry. Oud L, et al. **J Crit Care** 1996 Sep;11(3):144–50

Cytokine gene expression in the gastric mucosa: its role in chronic gastritis. Ishihara S, et al. **J Gastroenterol** 1996 Aug;31(4):485–90

Pyloric antral inhibition of gastrin release. Magee DF. **J Gastroenterol** 1996 Oct;31(5):758–63 (40 ref.)

Reduction of gap junction protein connexin 32 in rat atrophic gastric mucosa as an early event in carcinogenesis. Nagahara A, et al. **J Gastroenterol** 1996 Aug;31(4):491–7

A rapid and simple method to quantify Helicobacter pylori adhesion to human gastric MKN–28 cells. Hayashi S, et al. **J Gastroenterol Hepatol** 1997 May;12(5):373–5

Gastric mucosal energy metabolism and intracellular mucin content changes in patients with liver cirrhosis. Kawano S, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):380–4

Binding of acetaldehyde to rat gastric mucosa during ethanol oxidation. Salmela KS, et al. **J Lab Clin Med** 1997 Jun; 129(6):627–33

Sucrose permeability in children with gastric damage and Helicobacter pylori infection [see comments] Vera JF, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):506–11. Comment in: J Pediatr Gastroenterol Nutr 1997 May;24(5):621–2.

Diabetes and insulin–induced stimulation of L–arginine transport and nitric oxide synthesis in rabbit isolated gastric glands. Contreras R, et al. **J Physiol (Lond)** 1997 Feb 1; 498 (Pt 3):787–96

Regulation by gastric acid of the processing of progastrin–derived peptides in rat antral mucosa. Macro JA, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):409–19

Hormonal, secretory and morphological alterations in gastric mucosa in the course of Helicobacter pylori eradication in patients with duodenal ulcer and non–ulcer dyspepsia. Bobrzyński A. **J Physiol Pharmacol** 1997 Jun;48 Suppl 3:1–56 (198 ref.)

Effects of heat shock and teprenone on ethanol–induced damage to cultured rabbit gastric mucosal cells. Takahashi S, et al. **J Physiol Pharmacol** 1996 Sep;47(3):433–41

In vivo mucosal uptake, mucosal transfer and retention of iron in mice. Santos M, et al. **Lab Anim** 1997 Jul; 31(3):264–70

Demonstration of dopamine immunoreactivity in open and closed type endocrine cells of gerbil (Meriones unguiculatus) stomach. Wegner IC, et al. **Life Sci** 1996; 59(17):1407–13

Availability of arachidonic acid in major phospholipids of mucosa and the stomach wall of rats. Olafsson SO, et al. **Lipids** 1996 Dec;31(12):1323–5

Gastric and colonic inflammatory and vasoactive mediators in experimental portal hypertension. Ackerman Z, et al. **Liver** 1996 Feb;16(1):12–8

Gender–related regional antioxidant profiles in the gastrointestinal tract of the rat. Moghadasian MH, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):43–9

Helicobacter pylori picB, a homologue of the Bordetella pertussis toxin secretion protein, is required for induction of IL–8 in gastric epithelial cells. Tummuru MK, et al. **Mol Microbiol** 1995 Dec;18(5):867–76

Gastrointestinal tonometry: a monitor of regional dysoxia. Gutierrez G, et al. **New Horiz** 1996 Nov;4(4):413–9 (52 ref.)

Mast cell histamine in gastric secretion—a study on the isolated portion of a guinea pig stomach. Stanovnik L, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R219–20

Increased expression of cholecystokinin–A receptor mRNA in pancreas and cholecystokinin–B receptor mRNA in oxyntic mucosa after porta–caval shunting in rats. Nylander AG, et al. **Pharmacol Toxicol** 1997 Mar;80(3):147–51

Nitric oxide stimulates prostaglandin synthesis in cultured rabbit gastric cells. Uno H, et al. **Prostaglandins** 1997 Mar; 53(3):153–62

Effects of EGF and allopurinol on prostaglandin and lipid peroxide levels in mucosa of stomach in restraint cold stress. Aricioğlu A, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Apr; 54(4):285–8

Expression of the chromogranin A–derived peptides pancreastatin and WE14 in rat stomach ECL cells. Norlén P, et al. **Regul Pept** 1997 Jun 18;70(2–3):121–33

Nucleotide–sugar binding to ribosomes. Comparison of affinity and capacity of gastric mucosa and liver ribosomes to sugar–nucleotides. Paszkiewicz–Gadek A, et al. **Rocz Akad Med Bialymst** 1996;41(2):305–15

Free fatty acids and triacylglycerol concentrations in the gastrointestinal mucosa of fasted–refed rats. Wójcik BM, et al. **Rocz Akad Med Bialymst** 1996;41(2):452–6

Gastric tonometry—quo vadis? [editorial] Morgan TJ, et al. **S Afr J Surg** 1997 May;35(2):51–2

Expression of the epidermal growth factor receptor gene in human intestinal metaplasia: a preliminary report. Granelli P, et al. **Scand J Gastroenterol** 1997 May;32(5):485–9

Regional differences in the effect of mucosal glucose and amino acids on ion transport in normal and cholera toxin–stimulated porcine small intestine. Grøndahl ML, et al. **Scand J Gastroenterol** 1997 May;32(5):478–84

Helicobacter pylori infection accelerates gene expression of glicentin in the gastric mucosa. Its association with intestinal metaplasia of the stomach. Ishihara S, et al. **Scand J Gastroenterol** 1997 May;32(5):460–4

Expression of mRNA for interferon–gamma, interleukin–10, and interleukin–12 (p40) in normal gastric mucosa and in mucosa infected with Helicobacter pylori. Karttunen RA, et al. **Scand J Gastroenterol** 1997 Jan;32(1):22–7

Expression of epidermal growth factor and transforming growth factor–alpha after exposure of rat gastric mucosa to stress. Konturek PC, et al. **Scand J Gastroenterol** 1996 Mar;31(3):209–16

Enhanced expression of manganese superoxide dismutase mRNA and increased TNFalpha mRNA expression by gastric mucosa in gastric cancer. Izutani R, et al. **World J Surg** 1996 Feb;20(2):228–33

[What is/are the function(s) of trefoil peptides?] Rio MC. **Bull Cancer** 1997 Apr;84(4):443–6 (Eng. Abstr.) **(Fre)**

[Phase III contraction inhibition and gastric acidification in Pavlov and Heidenhain pouch in dogs] Mochiki H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):498–503 **(Jpn)**

[Motilin–induced phase III contraction and the role of vagus nerve in gastric acidified dogs] Tohara K, et al. **J Smooth Muscle Res** 1995 Dec;31(6):503–6 **(Jpn)**

[Changes in gastric intramucosal pH and hepato–splanchnic oxygen extraction ratio after heart surgery] Kunimoto F, et al. **Masui** 1996 Jan;45(1):21–6 (Eng. Abstr.) **(Jpn)**

[Antioxidant defense capabilities of gastric mucosa induced by water immersion restraint stress of rat] Ohisa Y, et al. **Rinsho Byori** 1996 Feb;44(2):183–9 (Eng. Abstr.) **(Jpn)**

[Changes in secretion of cholecystokinin after cholecystectomy and the effect of these changes on biliary reflux and the state of the gastric mucosa] Muszyński J, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):190–2 (Eng. Abstr.) **(Pol)**

[Exocrine pancreatic function and gastric mucosa and duodenal mucosa in patients with chronic kidney failure] Sosnowski S, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):182–4 (Eng. Abstr.) **(Pol)**

[The mucopolysaccharides of the human gastric mucosa] Sinitsina VF. **Arkh Anat Gistol Embriol** 1968 Nov; 55(11):71–4. (Eng. Abstr.) **(Rus)**

[Synthesis and phosphorylation of gastric proteins in cells of human gastric carcinoma] Karakin EI, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):676–81 **(Rus)**

[Prostaglandins E concentration in gastric mucosa and synthesis of interleukin–1 (IL–1) in different clinical variants of gastric ulcer] Mikriukova VI, et al. **Klin Med (Mosk)** 1996;74(4):38–9 (Eng. Abstr.) **(Rus)**

[Intraoperative monitoring of gastric intramucosal pH] Concha M, et al. **Rev Med Chil** 1996 Aug;124(8):918–22 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

A triple stain for the detection of Helicobacter pylori in gastric brushing cytology. Ghoussoub RA, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1178–82

Helicobacter pylori infection, a paradigm for chronic mucosal inflammation: pathogenesis and implications for eradication and prevention. Cover TL, et al. **Adv Intern Med** 1996;41:85–117 (214 ref.)

Estimates of Helicobacter pylori densities in the gastric mucus layer by PCR, histologic examination, and CLOtest. Nowak JA, et al. **Am J Clin Pathol** 1997 Sep;108(3):284–8

In vitro models to study attachment and invasion of Helicobacter pylori. Birkness KA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:293–5

Effects of Helicobacter pylori colonisation on the adherent gastric mucus barrier. Oliver L, et al. **Biochem Soc Trans** 1997 May;25(2):372S

Helicobacter pylori survival in gastric mucosa by generation of a pH gradient. Chen G, et al. **Biophys J** 1997 Aug; 73(2):1081–8

Prevalence of Helicobacter pylori at antral mucosa of patients with dyspepsia at University District Hospital. Mosquera RA, et al. **Bol Asoc Med P R** 1996 Oct–Dec;88(10–12):85–8

Adherence of Helicobacter pylori to the gastric mucosa. Clyne M, et al. **Can J Gastroenterol** 1997 Apr;11(3):243–8 (93 ref.)

Disappearance of Helicobacter without antibiotics in 12 patients with gastritis. Freeman HJ. **Can J Gastroenterol** 1997 Mar;11(2):167–72 (32 ref.)

Prevalence of Helicobacter–like organisms in porcine gastric mucosa: a study of swine slaughtered in Italy. Grasso GM, et al. **Comp Immunol Microbiol Infect Dis** 1996 Jun; 19(3):213–7

Diagnosis of Helicobacter pylori in gastric brush and biopsy specimens stained by Romanowsky and immunocytochemical methods: comparison with the CLOtest. Faraker CA. **Cytopathology** 1996 Apr;7(2):108–19

Non–ulcer dyspepsia and Helicobacter pylori in type 2 diabetic patients: association with autonomic neuropathy. Persico M, et al. **Diabetes Res Clin Pract** 1996 Mar; 31(1–3):87–92

Modification of Christensen urease test as an inexpensive tool for detection of Helicobacter pylori. Dominguez–Bello MG, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):149–52

Clinical application of gastric histology to monitor treatment of dual therapy in H. pylori eradication. Yang HB, et al. **Dig Dis Sci** 1997 Sep;42(9):1835–40

Significance of ammonia in the genesis of gastric epithelial lesions induced by Helicobacter pylori: an in vitro study with different bacterial strains and urea concentrations. Sommi P, et al. **Digestion** 1996;57(5):299–304

Antral mucosal Helicobacter pylori infection density as a risk factor of duodenal ulcer. Talamini G, et al. **Digestion** 1997;58(3):211–7

Culture of Helicobacter pylori from gastric biopsies transported in biopsy urease test tubes. Rautelin H, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):380–3

Effect of specimen collection techniques, transport media, and incubation of cultures on the detection rate of Helicobacter pylori. van der Hulst RW, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):211–5

Uptake on Helicobacter pylori research. Pathogenesis and host response. Crabtree JE, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):619–20

Cell envelope characteristics of Helicobacter pylori: their role in adherence to mucosal surfaces and virulence. Clyne M, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1; 16(2):141–55

Adherence of Helicobacter pylori to areas of incomplete intestinal metaplasia in the gastric mucosa. Genta RM, et al. **Gastroenterology** 1996 Nov;111(5):1206–11

Helicobacter pylori infection activates NF–kappa B in gastric epithelial cells. Keates S, et al. **Gastroenterology** 1997 Oct; 113(4):1099–109

Detection of Helicobacter pylori by rapid urease tests: is biopsy size a critical variable? [see comments] Yousfi MM, et al. **Gastrointest Endosc** 1996 Mar;43(3):222–4. Comment in: Gastrointest Endosc 1996 Mar;43(3):260–1.

Relationship of serum gastrin and Helicobacter pylori in the gastric antral and body mucosa [corrected and republished with original paging, article originally printed in Indian J Gastroenterol 1995 Jul; 14(3):99–101] Gill HH, et al. **Indian J Gastroenterol** 1995 Oct;14(4):99–101

Determinants of Helicobacter pylori pathogenicity. Labigne A, et al. **Infect Agents Dis** 1996 Oct;5(4):191–202 (110 ref.)

Coccoid and spiral Helicobacter pylori differ in their abilities to adhere to gastric epithelial cells and induce interleukin–8 secretion. Cole SP, et al. **Infect Immun** 1997 Feb; 65(2):843–6

Helicobacter pylori detected deep in gastric glands: an ultrastructural quantitative study. Taniguchi Y, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S169–73

Optimal combination of media for primary isolation of Helicobacter pylori from gastric biopsy specimens. Piccolomini R, et al. **J Clin Microbiol** 1997 Jun; 35(6):1541–4

Demonstration of Helicobacter pylori–like organisms in the gastric mucosa of captive exotic carnivores. Jakob W, et al. **J Comp Pathol** 1997 Jan;116(1):21–33

Clinical assessment of the bacterial load of Helicobacter pylori on gastric mucosa by a new multi–scaled rapid urease test. Chou CH, et al. **J Gastroenterol Hepatol** 1997 Jan; 12(1):1–6

Helicobacter felis as a cofactor alone or together with stress in cryptosporidial activation in mice. Tatar G, et al. **J Int Med Res** 1995 Nov–Dec;23(6):473–9

Helicobacter pylori cagA+ strains and dissociation of gastric epithelial cell proliferation from apoptosis [see comments] Peek RM Jr, et al. **J Natl Cancer Inst** 1997 Jun 18;

89(12):863–8. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):836–7.

Electron microscopic study of the morphological changes of gastric mucous cell induced by Helicobacter pylori in human gastric ulcers. Ogata T, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):255–64

Helicobacter pylori in kidney allograft recipients: high prevalence of colonization and low incidence of active inflammatory lesions. Hruby Z, et al. **Nephron** 1997; 75(1):25–9

Helicobacter pylori in areas of intestinal metaplasia in gastric antral mucosa. Misra V, et al. **Pathology** 1997 Aug; 29(3):327–8

Non-ulcer dyspepsia and Helicobacter pylori infection--morphological analysis according to the Sydney system--changes before and after treatment. Lewy-Trenda I, et al. **Pol J Pathol** 1996;47(2):57–63

Morphological and immunohistochemical examinations of the dynamic changes of gastric mucosa associated with the treatment of helicobacter pylori infection in children. Kozłowski W, et al. **Rocz Akad Med Bialymst** 1995; 40(3):678–84

Increased motility of Helicobacter pylori by methylcellulose could upregulate the expression of proinflammatory cytokines in human gastric epithelial cells. Jung HC, et al. **Scand J Clin Lab Invest** 1997 May;57(3):263–70

Colony variation of Helicobacter pylori: pathogenic potential is correlated to cell wall lipid composition. Bukholm G, et al. **Scand J Gastroenterol** 1997 May;32(5):445–54

Refinement of, and new applications for, Helicobacter pylori colonization in pig gastric biopsy specimens cultured in vitro. Meyer-Rosberg K, et al. **Scand J Gastroenterol** 1996 Jun;31(6):541–5

Pathogenic properties of Helicobacter pylori [letter; comment] Nardone G, et al. **Scand J Gastroenterol** 1997 Apr;32(4):399–400. Comment on: Scand J Gastroenterol Suppl 1996;215:22–31.

High prevalence of the CagA-positive Helicobacter pylori strains in Japanese asymptomatic patients and gastric cancer patients. Shimoyama T, et al. **Scand J Gastroenterol** 1997 May;32(5):465–8

[Urease test, microbiologic tests, histologic and serologic tests for the evaluation of Helicobacter pylori infections in persons with peptic ulcer and gastritis] Jarczyk G, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):219–22 (Eng. Abstr.) **(Pol)**

[Helicobacter pylori: role in the onset of chronic gastritis and ulcer] Tsimmerman IS, et al. **Klin Med (Mosk)** 1997; 75(4):8–13 (60 ref.) **(Rus)**

PARASITOLOGY

Helicobacter felis as a cofactor alone or together with stress in cryptosporidial activation in mice. Tatar G, et al. **J Int Med Res** 1995 Nov-Dec;23(6):473–9

Anaphylaxis with Anisakis simplex in the gastric mucosa [letter] Alonso A, et al. **N Engl J Med** 1997 Jul 31; 337(5):350–1

PATHOLOGY

Body-fundic intestinal type early gastric cancer (EGC): mucopeptic cells (immature cells) expansion in Helicobacter pylori (HP) positive patients [letter] Testino G, et al. **Acta Gastroenterol Belg** 1996 Oct-Dec;59(4):258

Gastric pathology in Meckel's diverticulum. Review of cases resected between 1965 and 1995. Cserni G. **Am J Clin Pathol** 1996 Dec;106(6):782–5 (28 ref.)

Estimates of Helicobacter pylori densities in the gastric mucus layer by PCR, histologic examination, and CLOtest. Nowak JA, et al. **Am J Clin Pathol** 1997 Sep;108(3):284–8

Pancreatic metaplasia of the gastric mucosa in pediatric patients. Integlia MJ, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1553–6

Gastric ulcers at endoscopy: brush, biopsy, or both? Sadowski DC, et al. **Am J Gastroenterol** 1997 Apr;92(4):608–13

Helicobacter pylori and uremic gastritis: a histopathologic study and a correlation with endoscopic and bacteriologic findings. Moustafa FE, et al. **Am J Nephrol** 1997; 17(2):165–71

Analysis of cell damage and proliferation in Helicobacter pylori-infected human gastric mucosa from patients with gastric adenocarcinoma. Yabuki N, et al. **Am J Pathol** 1997 Sep;151(3):821–9

Relationship between polyamines, actin distribution, and gastric healing in rats. Banan A, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G893–903

Temporal expression of trefoil peptides in the TGF-alpha knockout mouse after gastric ulceration. Cook GA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1540–9

Synchronous mucosa-associated lymphoid tissue lymphoma and adenocarcinoma of the stomach. Goteri G, et al. **Am J Surg Pathol** 1997 May;21(5):505–9

Effect of the histamine H2-receptor antagonist (+/-)-(E)-1-[2-hydroxy-2-(4-hydroxyphenyl)ethyl]-3'-[2-[[[5-methylamino) methyl-2-furyl] methyl]thio]ethyl]-2"-(methylsulfonyl)guanidine on acute gastric mucosal injury in rats and its free-radical scavenging activities. Naito Y, et al. **Arzneimittelforschung** 1997 Jul;47(7):845–8

Helicobacter pylori lipopolysaccharide induces gastric epithelial cells apoptosis. Piotrowski J, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):597–602

Synchronized induction in bFGF and Cdk2 during gastric ulcer healing. Slomiany BL, et al. **Biochem Mol Biol Int** 1996 Oct;40(2):339–45

Effects of Helicobacter pylori colonisation on the adherent gastric mucus barrier. Oliver L, et al. **Biochem Soc Trans** 1997 May;25(2):372S

Intracerebroventricular CRF inhibits cold restraint-induced c-fos expression in the dorsal motor nucleus of the vagus and gastric erosions in rats. Wang L, et al. **Brain Res** 1996 Oct 14;736(1-2):44–53

Histological and electron-microscopic observations on the mucosa of pediculate gastric wall graft transplanted to the intestines in Wistar rats. Li C, et al. **Chin Med J (Engl)** 1996 Jan;109(1):77–82

The effects of hemodialysis on duodenal and gastric mucosal changes in uremic patients. Var C, et al. **Clin Nephrol** 1996 May;45(5):310–4

Portal hypertensive gastropathy. Trevino HH, et al. **Dig Dis** 1996 Jul-Aug;14(4):258–70 (106 ref.)

Rebamipide attenuates indomethacin-induced gastric mucosal lesion formation by inhibiting activation of leukocytes in rats. Murakami K, et al. **Dig Dis Sci** 1997 Feb;42(2):319–25

Foveolar hyperplasia following partial gastrectomy results from expansion of surface mucous cell compartment. Ray GS, et al. **Dig Dis Sci** 1996 Oct;41(10):2016–24

Is there a dysplasia-carcinoma sequence in rat gastric remnant? Schwab GP, et al. **Dig Dis Sci** 1997 Mar; 42(3):608–15

Gastric motility and mucosal ulcerogenic responses induced by prokinetic drugs in rats under prostaglandin-deficient conditions. Takeuchi K, et al. **Dig Dis Sci** 1997 Feb; 42(2):251–8

Immunopathology of Helicobacter pylori gastritis. Kirchner T, et al. **Digestion** 1997;58 Suppl 1:14–6 (5 ref.)

Gastric mucosal damage and adaptive protection by ammonia and ammonium ion in rats. Konturek SJ, et al. **Digestion** 1996 Nov-Dec;57(6):433–45

Benign gastric ulcer masquerading as a submucosal tumor. Mergener K, et al. **Endoscopy** 1997 May;29(4):331

Massive necrosis of the gastric wall with gastric perforation after injection therapy of a bleeding duodenal ulcer. Opacic M, et al. **Endoscopy** 1995 Nov;27(9):707–8

Factors associated with gastric lesions in thoroughbred racehorses. Murray MJ, et al. **Equine Vet J** 1996 Sep; 28(5):368–74

Pattern of pS2 protein expression in premalignant and malignant lesions of gastric mucosa. Machado JC, et al. **Eur J Cancer Prev** 1996 Jun;5(3):169–79

Diagnostic use of endoscopic mucosal resection. Ghosh S, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):539–41

Release of cytokines associated with gastric mucosal injury. Gislason H, et al. **Eur Surg Res** 1996 Jul-Aug;28(4):278–86

The potentiating actions of cigarette smoking on ethanol-induced gastric mucosal damage in rats. Chow JY, et al. **Gastroenterology** 1997 Oct;113(4):1188–97

MALT-type lymphoma of the stomach is associated with Helicobacter pylori strains expressing the CagA protein. Eck M, et al. **Gastroenterology** 1997 May;112(5):1482–6

Adherence of Helicobacter pylori to areas of incomplete intestinal metaplasia in the gastric mucosa. Genta RM, et al. **Gastroenterology** 1996 Nov;111(5):1206–11

Gastric mucosal damage in experimental diabetes in rats: role of endogenous glutathione. Goldin E, et al. **Gastroenterology** 1997 Mar;112(3):855–63

Abnormal gastric histology and decreased acid production in cholecystokinin-B/gastrin receptor-deficient mice. Langhans N, et al. **Gastroenterology** 1997 Jan;112(1):280–6

Diagnostic criteria in lymphocytic gastritis [letter; comment] Lynch DA, et al. **Gastroenterology** 1997 Apr;112(4):1426–7 . Comment on: Gastroenterology 1996 Jul;111(1):73–7.

Gastric mucosal biopsy via a nasogastric tube: a nonendoscopic method for diagnosing fundic and antral mucosal gastritis and Helicobacter pylori infection in man. Cryer B, et al. **Gastrointest Endosc** 1996 Sep;44(3):317–23

Endoscopic resection of gastrointestinal submucosal lesions: a comparison between strip biopsy and aspiration lumpectomy. Kajiyama T, et al. **Gastrointest Endosc** 1996 Oct;44(4):404–10

Extent of Barrett's metaplasia: a prospective study of the serial change in area of Barrett's measured by quantitative endoscopic imaging [see comments] Kim R, et al. **Gastrointest Endosc** 1997 Jun;45(6):456–62. Comment in: Gastrointest Endosc 1997 Jun;45(6):533–5.

Detection of Helicobacter pylori by rapid urease tests: is biopsy size a critical variable? [see comments] Yousfi MM, et al. **Gastrointest Endosc** 1996 Mar;43(3):222–4. Comment in: Gastrointest Endosc 1996 Mar;43(3):260–1.

Low-grade gastric mucosa-associated lymphoid tissue lymphoma revealed by a bleeding Dieulafoy's ulceration. Zerbib F, et al. **Gastrointest Endosc** 1997 Jan;45(1):87–9

Stress-related mucosal damage. What to do or not to do. Goldin GF, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):505–26 (106 ref.)

Gastric vascular ectases. Weiner FR, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):681–96 (58 ref.)

Gastric ECL-cell hyperplasia produces enhanced basal and stimulated gastric acid output but not gastric erosion formation in the rat. LePard KJ, et al. **Gen Pharmacol** 1997 Mar;28(3):415–20

Lack of association between helicobacter pylori and gastric atrophy or intestinal metaplasia in elderly patients. Liston R, et al. **Gerontology** 1996;42(2):97–103

Atrophic gastric changes in both Helicobacter felis and Helicobacter pylori infected mice are host dependent and separate from antral gastritis. Sakagami T, et al. **Gut** 1996 Nov;39(5):639–48

Cellular proliferation and ploidy of the gastric mucosa: the role of Helicobacter pylori. Abdel-Wahab M, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):880–5

Apoptosis in chronic gastritis: evaluation of the gastric mucosa by DNA flow cytometry and the expression of the high molecular weight cytokeratin. Attallah AM, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1305–12

Evaluation of gastric ulcer healing with mucosal microvascular architecture. Nagasawa Y, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):866–872

Gastric mucosal injury and repair: effect of aging. Majumdar AP, et al. **Histol Histopathol** 1997 Apr;12(2):491–501 (81 ref.)

Duodenal and gastric cell regenerating epithelia on margins of human duodenal ulcer and presence of H. pylori--an electron microscopic study. Ogata T. **Histol Histopathol** 1997 Jan;12(1):57–68

The effects of long-term low-protein intake on gastrin cells of the rat antral mucosa during adulthood. Varagic J, et al. **Histol Histopathol** 1996 Oct;11(4):837–43

Pancreatic metaplasia of the human gastric mucosa is associated with high expression of transforming growth factor alpha but not of epidermal growth factor. Stachura J, et al. **Histopathology** 1995 Dec;27(6):509–15

Low grade gastric B-cell lymphoma of mucosa associated lymphoid tissue in immunocompromised patients [see comments] Wotherspoon AC, et al. **Histopathology** 1996 Feb;28(2):129–34. Comment in: Histopathology 1996 Aug;29(2):195–7.

Gastric epithelial dysplasia and adenoma: historical review and histological criteria for grading. Goldstein NS, et al. **Hum Pathol** 1997 Feb;28(2):127–33 (100 ref.)

Helicobacter pylori and intestinal metaplasia of gastric mucosa [see comments] Satarkar RP, et al. **Indian J Gastroenterol** 1997 Jan;16(1):16–7. Comment in: Indian J Gastroenterol 1997 Jan;16(1):3. Comment in: Indian J Gastroenterol 1997 Apr;16(2):78.

Immunohistochemical study of MUC5AC expression in human gastric carcinomas using a novel monoclonal antibody. Reis CA, et al. **Int J Cancer** 1997 Feb 20; 74(1):112–21

Expression of high-mobility group-I mRNA in human gastrointestinal adenocarcinoma and corresponding non-cancerous mucosa. Xiang YY, et al. **Int J Cancer** 1997 Feb 20;74(1):1–6

Long-term semi-quantitative follow-up of Helicobacter pylori associated gastritis. Tham TC, et al. **Ir J Med Sci** 1997 Jul-Sep;166(3):132–4

The antilesion actions of anticholinergic agents on ethanol-induced injury in rat stomachs: the importance of gastric vascular integrity and tonicity. Ko JK, et al. **J Auton Pharmacol** 1996 Jun;16(3):117–24

Role of extracellular matrix in attachment, migration, and repair of wounded rabbit cultured gastric cells. Fujiwara Y, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S125–30

Clinicopathologic features of submucosal carcinoma of the stomach. Hanazaki K, et al. **J Clin Gastroenterol** 1997 Apr; 24(3):150–5

Gastric mucosal cell proliferation and TGF alpha in the healing of peptic ulcers in human subjects. Tsuji S, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S30–5

Role of neutrophil-endothelial cell interactions in gastric mucosal injury induced by aspirin. Yoshida N, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S73–7

Risk of gastric carcinoma in patients with mucosal dysplasia associated with atrophic gastritis: a follow up study. Kokkola A, et al. **J Clin Pathol** 1996 Dec;49(12):979–84

Subtypes of intestinal metaplasia and their relationship to Helicobacter pylori. Evrensel T, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):221–4

Helicobacter pylori infection accelerates human gastric mucosal cell proliferation. Murakami K, et al. **J Gastroenterol** 1997 Apr;32(2):184–8

Crohn's disease in a 92-year-old male. Narita T, et al. **J Gastroenterol** 1996 Feb;31(1):114–8

Relationship between progression of gastric mucosal atrophy and Helicobacter pylori infection: retrospective long-term endoscopic follow-up study. Sakaki N, et al. **J Gastroenterol** 1997 Feb;32(1):19–23

Strain differences in the induction of intestinal metaplasia by X-irradiation in rats. Watanabe H, et al. **J Gastroenterol** 1997 Jun;32(3):295–9

High acid secretion may protect the gastric mucosa from injury caused by ammonia produced by Helicobacter pylori in duodenal ulcer patients. Shibata T, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):674–80

Analysis of pathogenic elements involved in gastric lesions induced by non-steroidal anti-inflammatory drugs in rats. Takeuchi K, et al. **J Gastroenterol Hepatol** 1997 May; 12(5):360–7

Study of the repairing process of gastric ulcer using multivariate analysis of bFGF-positive cells, haemodynamics, PAS-positive mucus amount and glandular index in the gastric mucosa. Terasaki T, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):928–40

Helicobacter pylori and the cell cycle [editorial; comment]

Correa P. **J Natl Cancer Inst** 1997 Jun 18;89(12):836–7. Comment on: J Natl Cancer Inst 1997 Jun 18;89(12):863–8.

Helicobacter pylori cagA+ strains and dissociation of gastric epithelial cell proliferation from apoptosis [see comments] Peek RM Jr, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):863–8. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):836–7.

The indomethacin-induced gastric mucosal damage in rats. Effect of gastric acid, acid inhibition, capsaicin-type agents and prostacyclin. Abdel Salam OM, et al. **J Physiol Paris** 1997 Feb;91(1):7–19

Effects of polyunsaturated fatty acids on bile acid–induced gastric mucosal injury. Mercer DW, et al. **J Surg Res** 1996 Feb 15;61(1):44–50

Amebiasis in a dog with gastric ulcers and adenocarcinoma. Steele KE, et al. **J Vet Diagn Invest** 1997 Jan;9(1):91–3

Rapid apoptotic changes in the gastric glandular epithelium of rats administered intraperitoneally with fusarenon-X. Li J, et al. **J Vet Med Sci** 1997 Jan;59(1):17–22

Course of apoptotic changes in the rat gastric mucosa caused by oral administration of fusarenon-X. Li J, et al. **J Vet Med Sci** 1997 Mar;59(3):191–9

A new gastric ulcer model induced by ischemia–reperfusion in the rat: role of leukocytes on ulceration in rat stomach. Wada K, et al. **Life Sci** 1996;59(19):PL295–301

Atypical lymphoid infiltrations of the gastric mucosa--their interpretation and management by eradication of Helicobacter pylori. Eidt S, et al. **Pathol Res Pract** 1996 Jun;192(6):560–5

Idiopathic focal foveolar hyperplasia in infants. Holland AJ, et al. **Pediatr Surg Int** 1997 Sep;12(7):497–500

Effects of sucralfate on acute gastric mucosal injury and gastric ulcer induced by ischemia–reperfusion in rats. Wada K, et al. **Pharmacology** 1997 Feb;54(2):57–63

Effect of stobadine on gastric mucosal injury after ischaemia/reperfusion. Mojžiš J, et al. **Physiol Res** 1996; 45(5):399–403

Grading of gastric epithelial dysplasia. An interobserver study and analysis of diagnostic criteria. Koktysz R, et al. **Pol J Pathol** 1997;48(1):5–14

Gastric epithelial dysplasia. Is histological grading bearing any clinical relevance? [editorial] Stachura J. **Pol J Pathol** 1997;48(1):3

Double-contrast barium examination of the upper gastrointestinal tract with nonendoscopic biopsy: findings in 100 patients. Bender GN, et al. **Radiology** 1997 Feb; 202(2):355–9

Effects of long-term treatment with lansoprazole and omeprazole on serum gastrin and the fundic mucosa. Arroyo Villarino MT, et al. **Rev Esp Enferm Dig** 1997 May; 89(5):347–56 **(Eng, Spa)**

Morphological and immunohistochemical examinations of the dynamic changes of gastric mucosa associated with the treatment of helicobacter pylori infection in children. Kozłowski W, et al. **Rocz Akad Med Bialymst** 1995; 40(3):678–84

Basal chromogranin A and gastrin concentrations in circulation correlate to endocrine cell proliferation in type-A gastritis. Borch K, et al. **Scand J Gastroenterol** 1997 Mar;32(3):198–202

Gastric mucosa-associated lymphoid tissue in autoimmune thyroid diseases. Cammarota G, et al. **Scand J Gastroenterol** 1997 Sep;32(9):869–72

Induction of acute gastritis and epithelial apoptosis by Helicobacter pylori lipopolysaccharide. Piotrowski J, et al. **Scand J Gastroenterol** 1997 Mar;32(3):203–11

Gastric inflammation and neutrophil-activating and cytotoxin-producing Helicobacter pylori strains. Rautelin H, et al. **Scand J Gastroenterol** 1996 Jul;31(7):639–42

Immature mucopeptic cell expansion in Helicobacter pylori-positive patients: a marker of progression towards gastric preneoplastic changes? [letter] Testino G, et al. **Scand J Gastroenterol** 1997 Jun;32(6):623–4

Effects of permanent eradication or transient clearance of Helicobacter pylori on histology of gastric mucosa using omeprazole with or without antibiotics. Solcia E, et al. **Scand J Gastroenterol Suppl** 1996;215:105–10

Gastric mucosa abnormalities and tumorigenesis in mice lacking the pS2 trefoil protein [see comments] Lefebvre O, et al. **Science** 1996 Oct 11;274(5285):259–62. Comment in: Science 1996 Oct 11;274(5285):204.

Evaluation of the cell kinetics of MNNG-treated rat gastric mucosa based on AgNOR and ODC activity. Aoyagi K, et al. **Surg Today** 1996;26(10):777–81

Study of the population of enterochromaffin-like cells in mouse gastric mucosa after long-term treatment with ebrotidine. Romero A, et al. **Toxicol Pathol** 1996 Mar–Apr; 24(2):160–5

Epithelial response of the rat gastric mucosa to chronic superficial injury [see comments] Lacy ER, et al. **Yale J Biol Med** 1996 Mar–Apr;69(2):105–8. Comment in: Yale J Biol Med 1996 Mar–Apr;69(2):155–8.

Molecular aspects of mucosal repair: a summary [comment] Moss SF, et al. **Yale J Biol Med** 1996 Mar–Apr;69(2):155–8 (7 ref.). Comment on: Yale J Biol Med 1996 Mar–Apr;69(2):105–18. Comment on: Yale J Biol Med 1996 Mar–Apr;69(2):119–29.

Modulation of cell adhesion during epithelial restitution in the gastrointestinal tract. Pignatelli M. **Yale J Biol Med** 1996 Mar–Apr;69(2):131–5 (38 ref.)

Peptic activity and gastroduodenal mucosal damage. Raufman JP. **Yale J Biol Med** 1996 Jan–Feb;69(1):85–90 (27 ref.)

Pathobiology of the gastric mucosa. West AB, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):75–9 (18 ref.)

Migration of the ductular elements of gut-associated glands gives clues to the histogenesis of structures associated with responses to acid hypersecretory state: the origins of "gastric metaplasia" in the duodenum of the specialized mucosa of barrett's esophagus and of pseudopyloric metaplasia. Wright NA. **Yale J Biol Med** 1996 Mar–Apr; 69(2):147–53 (24 ref.)

Healing process induced by a flavonic fraction of Bidens aurea on chronic gastric lesion in rat. Role of angiogenesis and neutrophil inhibition. Martín Calero M, et al. **Z Naturforsch [C]** 1996 Jul–Aug;51(7–8):570–7

[The overexpression of c-met oncogene correlation with gastric mucosal lesion] Wang J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):359–62 (Eng. Abstr.) **(Chi)**

[Micronucleus effect induced by Helicobacter pylori on human gastric mucous epithelial membrane] Ning T, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):139–40 (Eng. Abstr.) **(Chi)**

[Hyperplastic polyps arising in islands of gastric mucosa in the duodenum] Couvelard A, et al. **Ann Pathol** 1997 Jul; 17(3):203–5 (Eng. Abstr.) **(Fre)**

[Pathology of Helicobacter infection] Kirchner T, et al. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1444–7 (Eng. Abstr.) **(Ger)**

[Tenascin expression in activated lymphatic cells and gastrointestinal tracts] Back W, et al. **Verh Dtsch Ges Pathol** 1996;80:326 **(Ger)**

[Relevance of antigastric autoantibodies in Helicobacter pylori gastritis] Faller G, et al. **Verh Dtsch Ges Pathol** 1996; 80:181–4 (Eng. Abstr.) **(Ger)**

[Apoptosis in chronic gastritis: correlation of glandular apoptosis with antigastric autoantibodies] Steininger H, et al. **Verh Dtsch Ges Pathol** 1996;80:185–90 (Eng. Abstr.) **(Ger)**

[Crohn disease gastritis: histomorphology and immunohistochemical characterization of inflammatory cell infiltrates] Wrba F, et al. **Verh Dtsch Ges Pathol** 1996;80:216 **(Ger)**

[The buried gastrostomy bumper syndrome] Fireman Z, et al. **Harefuah** 1996 Aug;131(3–4):92–3, 143 (Eng. Abstr.) **(Heb)**

[Histopathological variations in the vitelline duct in heterotopic gastric mucosa with special reference to inflammatory changes. (Study of resected specimens from 1956–1995)] Cserni G. **Orv Hetil** 1997 Aug 3; 138(31):1957–63 (Eng. Abstr.) **(Hun)**

[Interrelationship of reflux bile acid concentration and the gastric mucosal change with reference to the pathophysiologic significance of taurine conjugated deoxycholic acid and chenodeoxycholic acid] Toyoshima A, et al. **Nippon Ika Daigaku Zasshi** 1996 Aug;63(4):268–74 (Eng. Abstr.) **(Jpn)**

[Autopsy findings of gastric mucosa from elderly people without gastric disease] Esaki Y, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb;34(2):114–9 (Eng. Abstr.) **(Jpn)**

[Pathogenesis and therapy of non-steroidal anti-inflammatory drug (NSAID)-induced gastric mucosal injury] Yoshikawa T, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 May;70(5):269–73 (20 ref.) **(Jpn)**

[The course of gastric type epithelium in duodenal ulcer and duodenitis; role on the eradication of Helicobacter pylori] Urakami Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):893–902 (Eng. Abstr.) **(Jpn)**

[The effect of Helicobacter pylori infection and duodenogastric reflux on the histology of gastric mucosa in peptic ulcers] Kopański Z, et al. **Folia Med Cracov** 1996; 37(1–2):3–14 (Eng. Abstr.) **(Pol)**

[Effect of age and sex on the occurrence of gastritis changes in gastric mucosa] Muszyński J, et al. **Pol Arch Med Wewn** 1996 Jun;95(6):542–8 (Eng. Abstr.) **(Pol)**

[Changes in gastric mucosa and Helicobacter pylori infection in young health volunteers] Muszyński J, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):169–73 (Eng. Abstr.) **(Pol)**

[Morphologic changes of gastric mucosa in Helicobacter pylori infection in patients with peptic ulcer disease and chronic gastritis] Raczyńska A, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):165–8 (Eng. Abstr.) **(Pol)**

[Chronic gastritis and ulcer disease in young men] Kula Z, et al. **Przegl Lek** 1996;53(10):722–5 (Eng. Abstr.) **(Pol)**

[Morphometric characterization of intestinal metaplasia of the mucosa of the pyloric antrum section of the stomach in ulcer disease] Bukalev AV. **Arkh Patol** 1997 Mar–Apr; 59(2):41–5 (Eng. Abstr.) **(Rus)**

[Changes in the gastric mucosa in endocrine-cell cancer] Derizhanova IS, et al. **Arkh Patol** 1996 Jul–Aug;58(4):32–5 (Eng. Abstr.) **(Rus)**

[Changes in the endocrine apparatus of the gastric mucosa in forms of cancer of varying origin] Derizhanova IS, et al. **Arkh Patol** 1997 Jul–Aug;59(4):25–8 (Eng. Abstr.) **(Rus)**

[The problem of regeneration of the gastrointestinal tract mucosa in erosive-ulcerous lesions] Potkhin PP, et al. **Arkh Patol** 1997 Mar–Apr;59(2):68–71 (47 ref.) (Eng. Abstr.) **(Rus)**

[Helicobacter pylori, endocrine cells of the gastric mucosa, and their function in duodenal ulcer] Zverkov IV, et al. **Arkh Patol** 1996 Jan–Feb;58(1):33–7 (Eng. Abstr.) **(Rus)**

[Structural-metabolic analysis of gastric mucosa in various gastropathies from the gastric biopsy data] Lapiĭ GA, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):228–32 **(Rus)**

[Ultrastructural and stereological characteristics of epitheliocytes from the stomach of wild microtinae rodents during anthropogenic environmental pollution] Nepomniashchikh GI, et al. **Biull Eksp Biol Med** 1996 Dec; 122(12):682–6 **(Rus)**

[Morphological characteristics of the stomach of microtinae rodents from ecologically dangerous regions] Nepomniashchikh GI, et al. **Biull Eksp Biol Med** 1996 Jun; 121(6):711–5 **(Rus)**

[Ultrastructural, autoradiographic and morphometric analysis of gastric mucosa in chronic gastritis] Omigov VV, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):103–8 **(Rus)**

[Erosive lesions of gastroduodenal mucosa: etiology, pathogenesis, clinical features, treatment] Maev IV, et al. **Klin Med (Mosk)** 1997;75(6):57–61 (40 ref.) **(Rus)**

[Reparative characteristics of gastric and duodenal mucosa in ulcer] Miagkova LP, et al. **Klin Med (Mosk)** 1997; 75(5):21–5 (Eng. Abstr.) **(Rus)**

[Endoscopic and immunomorphological changes in the mucosa of the operated stomach] Poluéktov VL, et al. **Vestn Khir Im I I Grek** 1996;155(2):15–7 (Eng. Abstr.) **(Rus)**

[Breath test in the diagnosis of Helicobacter pylori infection: concordance with histological methods and correlation with anatomopathological lesions of the gastric mucosa] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Apr; 88(4):259–64 (Eng. Abstr.) **(Spa)**

[Frequency and histopathologic features of chronic gastritis in 300 patients without endoscopic lesions] Schultz M, et al. **Rev Med Chil** 1996 May;124(5):545–52 (Eng. Abstr.) **(Spa)**

[The level of gastrin, insulin and glucagon in the blood and the morphometric characteristics of the gastric mucosa in peptic ulcer patients of different ages] Haĭdychuk VS, et al. **Lik Sprava** 1996 Oct-Dec;(10–12):80–4 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

Thermal effects of neutralization therapy and water dilution for acute alkali exposure in canines. Homan CS, et al. **Acad Emerg Med** 1997 Jan;4(1):27–32

Gastric tonometry as a visceral perfusion monitoring during thoracic epidural anaesthesia. Kapral S, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:178–80

Effect of inhibition of pentagastrin-stimulated acid secretion on gastric mucosal gland luminal pressure. Synnerstad I, et al. **Acta Physiol Scand** 1997 May;160(1):103–11

Ion pumps in epithelial cells: sorting, stabilization, and polarity. Caplan MJ. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1304–13 (73 ref.)

Role of vacuolation in the death of gastric epithelial cells. Hagen SJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C48–58

Mechanisms mediating gastric hyperemic and acid responses to central TRH analog at a cytoprotective dose. Király A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G31–8

Somatostatin inhibits gastrin release and acid secretion by activating sst2 in dogs. Lloyd KC, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1481–8

Signal transduction pathways via guanylin and uroguanylin in stomach and intestine. London RM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G93–105

Rapid synthesis and secretion of intestinal apolipoprotein A-IV after gastric fat loading in rats. Rodriguez MD, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1170–7

Evidence that endogenous GRP in rat stomach mediates omeprazole-induced hypergastrinemia. Takehara Y, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G799–804

Human spasmolytic polypeptide decreases proton permeation through gastric mucus in vivo and in vitro. Tanaka S, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1473–80

Reciprocal inhibitory paracrine pathways link histamine and somatostatin secretion in the fundus of the stomach. Vuyyuru L, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G106–11

Histamine H2 receptor activates adenylate cyclase and PLC via separate GTP-dependent pathways. Wang L, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G613–20

Opioid growth factor is present in human and mouse gastrointestinal tract and inhibits DNA synthesis. Zagon IS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1094–104

Synchronized induction in bFGF and Cdk2 during gastric ulcer healing. Slomiany BL, et al. **Biochem Mol Biol Int** 1996 Oct;40(2):339–45

Monitoring tissue oxygenation. The search for the grail [editorial; comment] Dantzker DR. **Chest** 1997 Jan; 111(1):12–4. Comment on: Chest 1997 Jan;111(1):174–9.

The DCO2 measured by gastric tonometry predicts survival in children receiving extracorporeal life support. Comparison with other hemodynamic and biochemical information. Royal Children's Hospital ECMO Nursing Team [see comments] Duke T, et al. **Chest** 1997 Jan; 111(1):174–9. Comment in: Chest 1997 Jan;111(1):12–4.

Cooperative modulation of gastrointestinal mucosal defence by prostaglandins and nitric oxide. Wallace JL. **Clin Invest Med** 1996 Oct;19(5):346–51 (52 ref.)

Recovery of cholecystokinin response of porcine gastric chief cells during monolayer culture. Heim HK, et al. **Digestion** 1997;58(1):10–8

Involvement of capsaicin-sensitive sensory nerves in gastric adaptive relaxation in isolated guinea-pig stomachs. Uno H, et al. **Digestion** 1997;58(3):232–9

Helicobacter pylori infection activates NF-kappa B in gastric epithelial cells. Keates S, et al. **Gastroenterology** 1997 Oct; 113(4):1099–109

Luminal acid increases apical cell membrane resistance in isolated Necturus antral mucosa. Mustonen H, et al. **Gastroenterology** 1997 Sep;113(3):875–83

Ion transport in rat antral mucosa in vitro: general characteristics. Bakoš P, et al. **Gen Physiol Biophys** 1995 Dec;14(6):473–90

Gastric surfactant and the hydrophobic mucosal barrier. Hills BA. **Gut** 1996 Nov;39(5):621–4

Regulation of metal absorption in the gastrointestinal tract. Whitehead MW, et al. **Gut** 1996 Nov;39(5):625–8

Gastric tonometry: does it work? [editorial] Russell JA. **Intensive Care Med** 1997 Jan;23(1):3–6

Expression of the calcium-sensing receptor on human antral gastrin cells in culture. Ray JM, et al. **J Clin Invest** 1997 May 15;99(10):2328–33

Hepatocyte growth factor as a key to modulate anti-ulcer action of prostaglandins in stomach. Takahashi M, et al. **J Clin Invest** 1996 Dec 1;98(11):2604–11

Regenerating gene expression in normal gastric mucosa and indomethacin-induced mucosal lesions of the rat. Kawanami C, et al. **J Gastroenterol** 1997 Feb;32(1):12–8

Healing the epithelium: solving the problem from two sides. Podolsky DK. **J Gastroenterol** 1997 Feb;32(1):122–6 (33 ref.)

Keratinocyte growth factor is an endogenous stimulant of rabbit gastric epithelial cell proliferation and migration in primary culture. Takahashi M, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1089–96

Gap junctions in regenerating gastric mucosa. Tarnawski A, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):602–3

Increased sensitivity of gastrin cells to gastric distension following antral denervation in the rat. Higham A, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):169–75

Regulation of intracellular pH: role in gastric mucosal defence. Kaunitz JD, et al. **Keio J Med** 1996 Sep; 45(3):155–60 (46 ref.)

Soothing the troubled gut with trefoil factors [news] Featherstone C. **Lancet** 1997 Mar 8;349(9053):706

Routine blood–gas analysis and gastric tonometry: a reappraisal [letter] Rhodes A, et al. **Lancet** 1997 Aug 9; 350(9075):413

Rat gastric hydrophobic barrier: modulation of phosphatidylcholine molecular species by dietary lipids. Bernhard W, et al. **Lipids** 1996 May;31(5):507–11

Indomethacin does not alter the effect of pentagastrin on rat gastric defense mechanisms. Tanaka S, et al. **Peptides** 1996;17(1):155–9

G protein–coupled cholecystokinin–B/gastrin receptors are responsible for physiological cell growth of the stomach mucosa in vivo. Nagata A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11825–30

Effect of acetazolamide and melittin on polarization of the frog gastric mucosa proton pump. Carrasquer G, et al. **Proc Soc Exp Biol Med** 1996 Dec;213(3):258–61

Peptic ulcer pathophysiology: acid, bicarbonate, and mucosal function. Højgaard L, et al. **Scand J Gastroenterol Suppl** 1996;216:10–5 (62 ref.)

Trefoil peptides: less clandestine in the intestine [comment] Chinery R, et al. **Science** 1996 Oct 11;274(5285):204. Comment on: Science 1996 Oct 11;274(5285):259–65. Comment on: Science 1996 Oct 11;274(5285)::262–5.

Molecular aspects of mucosal repair: a summary [comment] Moss SF, et al. **Yale J Biol Med** 1996 Mar–Apr;69(2):155–8 (7 ref.). Comment on: Yale J Biol Med 1996 Mar–Apr;69(2):105–18. Comment on: Yale J Biol Med 1996 Mar–Apr;69(2):119–29.

[Ventricular tonometry during laparoscopic cholecystectomy] Folkersen L, et al. **Ugeskr Laeger** 1997 Mar 10;159(11):1612–5 (Eng. Abstr.) **(Dan)**

[Role of nitric oxide in maintaining the mucosal integrity and in inflammatory gastrointestinal diseases] Lamarque D, et al. **Gastroenterol Clin Biol** 1996;20(12):1085–98 (213 ref.) **(Fre)**

[Trefoil peptides in the protection of the gastrointestinal mucosa] Rossi G. **Recenti Prog Med** 1997 May;88(5):201 **(Ita)**

[Pathophysiological study on the mucosal defense system of genetically obese Zucker rats] Taniguchi Y. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):745–56 (Eng. Abstr.) **(Jpn)**

[The effect of various surgical management methods of stenosing duodenal ulcers on the stomach mucosa defence barrier] Kuzin NM, et al. **Khirurgiia (Mosk)** 1997;(1):13–7 (Eng. Abstr.) **(Rus)**

[Defense mechanisms of the gastric mucosa: functional bases and pharmacologic action] Esplugues JV, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):196–208 (40 ref.) **(Spa)**

[The role of prostaglandins in the defense of the gastric mucosal barrier] Jiménez Molinos P, et al. **Gastroenterol Hepatol** 1997 May;20 Suppl 2:16–21 (37 ref.) **(Spa)**

[The gastric mucosal barrier. Introduction] Lanas Arbeloa A. **Gastroenterol Hepatol** 1997 May;20 Suppl 2:1–3 (15 ref.) **(Spa)**

[Growth factors in the defense of the gastric mucosal barrier] Piazuelo Ortega E, et al. **Gastroenterol Hepatol** 1997 May; 20 Suppl 2:37–43 (36 ref.) **(Spa)**

PHYSIOPATHOLOGY

Downregulation of E-cadherin in the reparative epithelium of the human gastrointestinal tract. Hanby AM, et al. **Am J Pathol** 1996 Mar;148(3):723–9

Protective action of gastrin-17 against alcohol-induced gastric injury in the rat: role in mucosal defense. Mercer DW, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G365–73

Helicobacter pylori lipopolysaccharide inhibits acid secretion in pylorus-ligated conscious rats. Ootsubo C, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):532–7

Gastric intramucosal pH and hepatic venous oximetry after cardiopulmonary bypass in valve replacement patients. Takahashi T, et al. **Cardiovasc Surg** 1996 Jun;4(3):308–10

Nucleus accumbens dopaminergic mediation of protection against gastric mucosal ulcerations by cold-restraint stress in the male hyperprolactinemic rats. Shyu JC, et al. **Chin J Physiol** 1997;40(1):37–43

Increased gastrointestinal permeability in patients with Plasmodium falciparum malaria. Wilairatana P, et al. **Clin Infect Dis** 1997 Mar;24(3):430–5

Duodenogastric reflux causes growth stimulation of foregut mucosa potentiated by gastric acid blockade. Wetscher GJ, et al. **Dig Dis Sci** 1996 Nov;41(11):2166–73

Gastric intramucosal pH: an indicator of weaning outcome from mechanical ventilation in COPD patients. Bouachour G, et al. **Eur Respir J** 1996 Sep;9(9):1868–73

Gastric mucosal hydrophobicity in duodenal ulceration: role of Helicobacter pylori infection density and mucus lipids. Asante M, et al. **Gastroenterology** 1997 Aug;113(2):449–54

Gastric permeability in celiac disease [letter; comment] Cox MA, et al. **Gastroenterology** 1997 Jan;112(1):314–5. Comment on: Gastroenterology 1996 Jul;111(1):73–7.

Role of sensory afferent neurons in hypertonic damage and restitution of the rat gastric mucosa. Grønbech JE, et al. **Gastroenterology** 1996 Dec;111(6):1474–83

Helicobacter pylori cagA gene and expression of cytokine messenger RNA in gastric mucosa. Yamaoka Y, et al. **Gastroenterology** 1996 Jun;110(6):1744–52

Restoration of gap junctions in the regenerative process of ethanol-induced gastric mucosal injury. Endo K, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):589–94

Novel role of prostacyclin in stress-induced gastric mucosal lesion formation in rats. Harada N, et al. **J Lab Clin Med** 1997 Jun;129(6):620–6

Physiological, immunohistochemical and molecular aspects of gastric adaptation to stress, aspirin and to H. pylori-derived gastrotoxins. Konturek PC. **J Physiol Pharmacol** 1997 Mar;48(1):3–42 (89 ref.)

Progressive gastric intramucosal acidosis follows resuscitation from hemorrhagic shock. Oud L, et al. **Shock** 1996 Jul;6(1):61–5

Intraabdominal pressure and gastric intramucosal pH: is there an association? Sugrue M, et al. **World J Surg** 1996 Oct; 20(8):988–91

[The role of biliary dyskinesia in the mechanism of the damage to the protective properties of the mucosal barrier in peptic ulcer] Oparin AG, et al. **Ter Arkh** 1993;65(2):44–6 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Reactions of the gastric wall following IORT +/- ERT to the upper abdomen in rabbits. Grab J, et al. **Front Radiat Ther Oncol** 1997;31:47–50

Low dose X-ray irradiation induces stress proteins but does not prevent gastric mucosal lesion. Sato EF, et al. **Physiol Chem Phys Med NMR** 1996;28(2):103–9

[The status of the gastric and duodenal mucosa, biopsied from those who worked in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station, in an organotypic tissue culture] Nikiforov AM, et al. **Morfologiia** 1996;110(6):100–5 (Eng. Abstr.) **(Rus)**

[The morphometric and immunohistochemical indices of the gastric and duodenal mucosa in the dynamic treatment of erosive gastroduodenitis in those who worked in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station in the follow-up period] Dement'eva OIu, et al. **Ter Arkh** 1997;69(2):18–22 (Eng. Abstr.) **(Rus)**

[Characteristics of the gastric and duodenal mucosa in participants in the cleanup of the sequelae of the accident at the Chernobyl Atomic Electric Power Station] Loginov AS, et al. **Ter Arkh** 1995;67(12):39–43 (Eng. Abstr.) **(Rus)**

[Gastric and duodenal mucosal function in peptic ulcer patients exposed to endoscopic laser therapy and sanatorium-health resort factors] Petrakova VS, et al. **Ter Arkh** 1997;69(2):13–6 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Fluoroscopic-guided in vivo gastric mapping for assessment of gastric carcinoma. Makuch RS, et al. **Invest Radiol** 1997 Aug;32(8):496–9

[The potential of radiologic methods in the diagnosis of precancerous changes in the gastric mucosa] Gorshkov AN, et al. **Vopr Onkol** 1996;42(4):91–2 **(Rus)**

[The cytomorphological characteristics of the epithelial layer of the gastric and duodenal mucosa in those who worked in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station] Dehtiar'ova LV, et al. **Tsitol Genet** 1996 Sep–Oct;30(5):11–6 (Eng. Abstr.) **(Ukr)**

SECRETION

The fade of gastrin-stimulated gastric acid secretion in the rat is due to depletion of releasable mucosal histamine. Rønning K, et al. **Acta Physiol Scand** 1996 Aug; 157(4):487–91

Time to maximum effect of lansoprazole on gastric pH in normal male volunteers. Bell NJ, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):897–904

Effects of ranitidine bismuth citrate on gastric acid secretion and gastrin release in subjects with and without Helicobacter pylori infection. Ciociola AA, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):905–12

Ulcerogenesis: integrating the roles of Helicobacter pylori and acid secretion in duodenal ulcer. Peura DA. **Am J Gastroenterol** 1997 Apr;92(4 Suppl):8S–13S; discussion 13S–16S (63 ref.)

Role of vagus nerves and gastrin in the gastric phase of acid secretion in male anesthetized rats. Noto T, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G335–9

Gastric mucus of the guinea pig: proton carrier and diffusion barrier. Schreiber S, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G63–70

Calyculin A, a phosphoprotein phosphatase inhibitor, stimulates acid secretion in isolated gastric glands. Urushidani T, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G103–12

Stimulation of gastric acid secretion by cAMP in a novel alpha-toxin-permeabilized gland model. Yao X, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C61–73

Effects of the novel histamine H2-receptor antagonist (+/-)-(E)-1-[2-hydroxy-2-(4-hydroxyphenyl)ethyl]-3-[2-[[[5-(methylamino)methyl-2-furyl]methyl]thio]ethyl]-2-(methylsulfonyl) guanidine on gastric secretion and gastroduodenal ulcers in rats. Amagase K, et al. **Arzneimittelforschung** 1996 Feb;46(2):177–84

Anti-gastric acid secretory mechanism of 1,6-dihydro-2-[2-(2-methylpropoxy)anilino]-6-oxo-5-pyrimidinecarboxylic acid. Effect on mucosal mast cell. Ishizuka Y, et al. **Arzneimittelforschung** 1996 Sep; 46(9):919–22

Study on the increment of the amount of gastric mucus in rats after repeated-dose administration of ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):455–8

Evidence for the involvement of a muscarinic receptor in ascorbic acid secretion in the rat stomach. Muto N, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):553–9

Gastric mucin secretion from cultured rat epithelial cells. Tani S, et al. **Biol Pharm Bull** 1997 May;20(5):482–5

Pharmacological analysis of the CCKB/gastrin receptors mediating pentagastrin-stimulated gastric acid secretion in the isolated stomach of the immature rat. Hills DM, et al. **Br J Pharmacol** 1996 Dec;119(7):1401–10

Immunocytochemical and morphometric studies of gastrin-, somatostatin- and serotonin-producing cells in the stomach and duodenum of patients with acid peptic disorders. Yacoub WR, et al. **Can J Gastroenterol** 1996 Oct; 10(6):395–400

Nicotinamide derivatives as a new class of gastric (H+/K+)-ATPase inhibitors. III. Synthesis and gastric antisecretory activity of 2-[(2- and 4-aminobenzyl, and alpha-methylbenzyl)sulfinyl]-N-(4-pyridinyl)-3-pyridinecarboxamides. Terauchi H, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1177–82

Increased gastric bicarbonate secretion in portal hypertensive anesthetized rats: role of prostaglandins and nitric oxide. Lamarque D, et al. **Dig Dis Sci** 1997 Apr;42(4):743–50

Histological effect of (R)-alpha-methylhistamine on ethanol damage in rat gastric mucosa: influence on mucus production. Morini G, et al. **Dig Dis Sci** 1997 May; 42(5):1020–8

Mechanism of acid secretory changes in rat stomach after damage by taurocholate: role of nitric oxide, histamine, and sensory neurons. Takeuchi K, et al. **Dig Dis Sci** 1997 Mar;42(3):645–53

Regulation of interdigestive gastrointestinal motility and secretion. DiMagno EP. **Digestion** 1997;58 Suppl 1:53–5 (16 ref.)

Evaluation of gastric intramucosal pH during and after pediatric cardiac surgery. Wippermann CF, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):190–4

Role of peripheral GABAB receptors in the regulation of pepsinogen secretion in anaesthetized rats. Blandizzi C, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):191–200

Somatostatin receptor subtype 2 mediates inhibition of gastrin and histamine secretion from human, dog, and rat antrum. Zaki M, et al. **Gastroenterology** 1996 Oct;111(4):919–24

Neurogenic stimulation of gastric acid secretion by the Na+, K(+)-ATPase inhibitor ouabain in mouse isolated stomach. Horie S, et al. **Gen Pharmacol** 1996 Jul;27(5):905–9

Gastric ECL-cell hyperplasia produces enhanced basal and stimulated gastric acid output but not gastric erosion formation in the rat. LePard KJ, et al. **Gen Pharmacol** 1997 Mar;28(3):415–20

Stimulation of acid secretion in rat stomach following exposure to taurocholate in the presence of the nitric oxide synthase inhibitor. Takeuchi K, et al. **Gen Pharmacol** 1996 Jul;27(5):849–54

Effect of continuous infusion of GABA and baclofen on gastric secretion in anaesthetised rats. Goel RK, et al. **Indian J Exp Biol** 1996 Oct;34(10):978–81

Suppression of gastric acidity in horses. Murray MJ. **J Am Vet Med Assoc** 1997 Jul 1;211(1):37–40 (33 ref.)

Eremomastax speciosa: effects of leaf aqueous extract on ulcer formation and gastric secretion in rats. Tan PV, et al. **J Ethnopharmacol** 1996 Nov;54(2–3):139–42

Analysis of interleukin–8 secretion induced by Helicobacter pylori from the gastric epithelial cell line MKN45: a mechanism independent of the intensity of cytotoxicity. Takagi A, et al. **J Gastroenterol Hepatol** 1997 May; 12(5):368–72

Changes in gastric HCO–3 secretory response to NG–nitro–L–arginine methyl ester in rats following repeated administration. Takeuchi K, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1164–70

Evaluation of frog gastric mucous secretion by 7T magnetic resonance imaging. Sbarbati A, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):336–40

Antiulcer agents. 6. Analysis of the in vitro biochemical and in vivo gastric antisecretory activity of substituted imidazo[1,2–a]pyridines and related analogues using comparative molecular field analysis and hypothetical active site lattice methodologies. Kaminski JJ, et al. **J Med Chem** 1997 Feb 14;40(4):427–36

Is resting state HCO3– secretion in frog gastric fundus mucosa mediated by apical Cl(–)–HCO3– exchange? Caroppo R, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):763–71

The role of gastric mast cells, enterochromaffin–like cells and parietal cells in the regulation of acid secretion. Kurbel S, et al. **Med Hypotheses** 1995 Dec;45(6):539–42 (22 ref.)

Role of endogenous bombesin–peptides during vagal stimulation of gastric acid secretion in the rat. Weigert N, et al. **Neuropeptides** 1996 Dec;30(6):521–7

Effects of a nitric oxide donor and nitric oxide synthase inhibitors on acid secretion of isolated rabbit gastric glands. Kim H, et al. **Pharmacology** 1996 Dec;53(6):331–9

Control of gastric secretion. Parsons ME. **Proc Nutr Soc** 1996 Mar;55(1B):251–8 (30 ref.)

Indomethacin decreases gastroduodenal mucosal bicarbonate secretion in humans. Mertz–Nielsen A, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1160–5

Flagellin gene diversity among Helicobacter pylori strains and IL–8 secretion from gastric epithelial cells. Ohta–Tada U, et al. **Scand J Gastroenterol** 1997 May;32(5):455–9

The effects of convenient vagorrhaphy on the early recovery of gastric secretion and emptying: an experimental study on function–preserving gastric cancer surgery. Kodama M, et al. **Surg Today** 1997;27(8):741–4

Association between serum gastrin levels, gastric acid secretion and age in early gastric cancer. Miyaji M, et al. **Tumour Biol** 1997;18(5):311–20

[Gastric secretion and motility function after pylorus–preserving pancreaticoduodenectomy] Asahi H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):381–3 **(Jpn)**

[Effect of peptide YY and the role of vagus nerve in gastric secretion and motility in conscious dogs] Zai H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):507–8 **(Jpn)**

[Gastroduodenal bicarbonate secretion: pharmacological modulation and contribution to mucosal protection] Takeuchi K. **Nippon Yakurigaku Zasshi** 1996 Dec; 108(6):281–93 (50 ref.) (Eng. Abstr.) **(Jpn)**

[The studies of F. A. Stefanis on the morphology of lymph outflow from the mucosal–submucosal layer of the human stomach and their development] Spirov MS. **Arkh Anat Gistol Embriol** 1968 Nov;55(11):85–91 **(Rus)**

[Neurohumoral regulation of gastric secretion in middle–aged and old people] Korkushko OV, et al. **Fiziol Cheloveka** 1996 Nov–Dec;22(6):66–70 **(Rus)**

[The adaptation–protective effect of corticosteroids on the rat gastric mucosa and its mechanism] Filaretov AA, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):141–50 (Eng. Abstr.) **(Rus)**

[A device for the restraint of laboratory rats in research on their gastric secretion] Trefilov AB. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov;82(10–11):130–4 **(Rus)**

[A method for the continuous quantitative estimation of acid and bicarbonate secretion in the stomach of narcotized rats] Zolotarev VA, et al. **Fiziol Zh Im I M Sechenova** 1996 Jul;82(7):111–6 **(Rus)**

[Secretory function of stomach in long term followup period after selective proximal vagotomy] Podoluzhnyi, et al. **Khirurgiia (Mosk)** 1997;(5):18–20 (Eng. Abstr.) **(Rus)**

[The efficacy of metabolic therapy in chronic gastritis with secretory deficiency in flight personnel] Lobenko AA, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):175–9 (Eng. Abstr.) **(Rus)**

[The methods and clinico–diagnostic importance of a study of the periodic secretory activity of the gastroduodenal area] Fisher AA, et al. **Ter Arkh** 1993;65(2):8–11 (Eng. Abstr.) **(Rus)**

[The importance of studying acid gastric secretion for the prognosis of recurrences of duodenal ulcer following vagotomy (I)] Maistrenko NA, et al. **Vestn Khir Im I I Grek** 1997;156(2):30–4 (Eng. Abstr.) **(Rus)**

[The study of gastric secretory function in Norway (a historical review)] Myren J. **Vestn Ross Akad Med Nauk** 1996;(1):29–32 (28 ref.) (Eng. Abstr.) **(Rus)**

[THe characteristics of the action of Khi–Mi on gastric and hepatic secretion] Rymshina MV, et al. **Vopr Pitan** 1996; (1):9–11 (Eng. Abstr.) **(Rus)**

[Mucus and bicarbonate secretion in the gastric mucosal barrier] Arroyo Villarino MT, et al. **Gastroenterol Hepatol** 1997 May;20 Suppl 2:4–11 (51 ref.) **(Spa)**

[Effect of indomethacin on the secretion of pepsinogen in isolated human cells in vitro] Serrano Aulló MT, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):253–7 (Eng. Abstr.) **(Spa)**

[The effect of transitional metal cations on pepsinogen extrusion by dispersed gastric glands] Dubyts'kyĭ LO. **Fiziol Zh** 1995 Sep–Dec;41(5–6):12–7 (Eng. Abstr.) **(Ukr)**

SURGERY

Endoscopic mucosectomy using an esophageal variceal ligation device for minute gastric cancer. Lee DK, et al. **Endoscopy** 1996 May;28(4):386–9

Diagnostic use of endoscopic mucosal resection. Ghosh S, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):539–41

Endoscopic mucosal resection of gastric tumors located in the lesser curvature of the upper third of the stomach. Matsushita M, et al. **Gastrointest Endosc** 1997 Jun; 45(6):512–5

Endoscopic ultrasonic probes and mucosectomy for early gastric carcinoma. Yasuda K. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S29–31

Symposium on endoscopic hemostasis in gastric diseases. 4. Endoscopic mucosal resection for early gastric cancer. Hamada T, et al. **Intern Med** 1997 Feb;36(2):131

Symposium on endoscopic hemostasis in gastric diseases. 3. Endoscopic treatment of early gastric cancer: therapeutic effectiveness and possible extension of the indications. Ida K, et al. **Intern Med** 1997 Feb;36(2):129–31

Endoscopic mucosal resection. Shim CS. **J Korean Med Sci** 1996 Dec;11(6):457–66 (33 ref.)

A four–point fixation method for the resection of early gastric cancer, with particular reference to the analysis of cases of incomplete resection. Tanaka M, et al. **Surg Endosc** 1997 Mar;11(3):295–8

ULTRASTRUCTURE

Cholesterol vesicles in areas of gastric metaplasia of gallbladder epithelium. Caselli M, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):251–3

Electron microscopic study of the morphological changes of gastric mucous cell induced by Helicobacter pylori in human gastric ulcers. Ogata T, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):255–64

[Study on mitochondrial ultrastructure, trace elements and correlative factors of gastric mucosa in patients with spleen deficiency syndrome] Yin GY, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Dec; 15(12):719–23 (Eng. Abstr.) **(Chi)**

[Subcellular localization of blood group substances ABH in human gastrointestinal tracts] Li R, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Feb; 18(1):49–53 (Eng. Abstr.) **(Chi)**

[Morphological variations of the human gastric mucosa after omeprazole treatment: a scanning electron microscopic study] Magaudda L, et al. **Minerva Gastroenterol Dietol** 1996 Jun;42(2):61–9 (Eng. Abstr.) **(Ita)**

[The ultrastructural, histomorphological and histoenzymological changes in the gastric mucosa in different forms of chronic gastroduodenitis] Rodonezhskaia EV, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):56–60 (Eng. Abstr.) **(Rus)**

VIROLOGY

[In situ detection of Epstein–Barr virus in the non–neoplastic gastric glands and infiltrated lymphocytes] Sasaki Y, et al. **Rinsho Byori** 1996 Dec;44(12):1196–200 (Eng. Abstr.) **(Jpn)**

GASTRIC OUTLET OBSTRUCTION

Gastric outlet obstruction. Khullar SK, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):585–603 (82 ref.)

Acquired gastric outlet obstruction during infancy and childhood: a report of five unusual cases. Sharma KK, et al. **J Pediatr Surg** 1997 Jun;32(6):928–30

CHEMICALLY INDUCED

Acute gastric outlet obstruction following the administration of prostaglandin: an additional case. Kobayashi N, et al. **Pediatr Radiol** 1997 Jan;27(1):57–9

CONGENITAL

Gastric outlet obstruction and epidermolysis bullosa. Shaw DW, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 2):304–10

Pyloroduodenal duplication cyst: case report. Hamada Y, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):194–5

DIAGNOSIS

Vomiting and weight loss. Vazifdar K, et al. **Postgrad Med J** 1997 Apr;73(858):247–8

ETIOLOGY

Gastric outlet obstruction caused by prepyloric mucosal diaphragm mimicking duodenal ulcer: a case report. Nissan A, et al. **Acta Paediatr** 1997 Jan;86(1):116–8

Abdominal case of the day. Bouveret's syndrome. Herbener TE, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):250, 252–3

Re: W. de Boer: Gastric outlet obstruction and Helicobacter pylori [letter] Borody TJ, et al. **Am J Gastroenterol** 1997 Sep;92(9):1576–7

Haemorrhage into a duodenal cyst with ectopic gastric epithelium, a rare cause of gastric outlet obstruction in an adult. Sand J, et al. **Ann Chir Gynaecol** 1997;86(1):76–8

Prolapsing gastric polyp, an unusual cause of gastric outlet obstruction: a review of the pathology and management of gastric polyps. Kumar A, et al. **Endoscopy** 1996 Jun; 28(5):452–5

Olive pit pyloric obstruction. Losanoff JE, et al. **Endoscopy** 1996 Nov;28(9):788–9

Two young Somalians with gastric outlet obstruction as a first manifestation of gastroduodenal tuberculosis. Woudstra M, et al. **Eur J Gastroenterol Hepatol** 1997 Apr; 9(4):393–5

Bouveret's syndrome: case report and review of the literature. Frattaroli FM, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1019–22 (79 ref.)

Gastric outlet obstruction caused by peptic ulcer disease analysis of 99 patients. Mäkelä JT, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):547–52

Prepyloric diaphragm detected following foreign body ingestion. Oak S, et al. **Indian J Gastroenterol** 1996 Jul; 15(3):109–10

Atypical case of tuberculosis of stomach presenting as gastric outlet obstruction. Lath JR, et al. **J Assoc Physicians India** 1996 Apr;44(4):286

Gastric outlet obstruction caused by prepyloric web in a case of Down's syndrome. Benjamin B, et al. **J Pediatr Surg** 1996 Sep;31(9):1290–1

Gastric lymphoma causing gastric outlet obstruction. Ciftci AO, et al. **J Pediatr Surg** 1996 Oct;31(10):1424–6

Gastric lactobezoar: a rare cause of gastric outlet obstruction. Bakken DA, et al. **Pediatr Emerg Care** 1997 Aug; 13(4):264–7

Idiopathic focal foveolar hyperplasia in infants. Holland AJ, et al. **Pediatr Surg Int** 1997 Sep;12(7):497–500

Peritoneal mesothelioma with gastric outlet obstruction. Meek RM, et al. **Scott Med J** 1996 Aug;41(4):115

Gastrointestinal bleeding and gastric outlet obstruction from Peutz–Jeghers polyposis. Diagnosis and treatment. Corley DA, et al. **West J Med** 1997 May;166(5):350–2

RADIOGRAPHY

Abdominal case of the day. Bouveret's syndrome. Herbener TE, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):250, 252–3

SURGERY

Surgical resection in the treatment of bulbostenosis. Horžić M, et al. **Acta Med Croatica** 1997;51(1):53–5

Endoscopic stenting for recurrent malignant gastric outlet obstruction. Patton JT, et al. **Br J Surg** 1997 Jun; 84(6):865–6

Gastric outlet obstruction due to starch granuloma and peritonitis. Steiner Z, et al. **Eur J Pediatr Surg** 1996 Dec; 6(6):364–6

Surgical treatment and its long–term result for caustic–induced prepyloric obstruction. Hsu CP, et al. **Eur J Surg** 1997 Apr;163(4):275–9

Surgical treatment of gastric outlet obstruction after corrosive injury--can early definitive operation be used instead of staged operation? Hwang TL, et al. **Int Surg** 1996 Apr–Jun;81(2):119–21

Laparoscopic jaboulay gastroduodenostomy for gastric outlet obstruction: a case report. Frantzides CT, et al. **J Laparoendosc Surg** 1996 Oct;6(5):341–4

A 45–year experience with surgical treatment of peptic ulcer disease in children. Azarow K, et al. **J Pediatr Surg** 1996 Jun;31(6):750–3

Idiopathic focal foveolar hyperplasia in infants. Holland AJ, et al. **Pediatr Surg Int** 1997 Sep;12(7):497–500

Laparoscopic gastrojejunostomy and endoscopic biliary stent placement for palliation of incurable gastric outlet obstruction with cholestasis. Brune IB, et al. **Surg Endosc** 1997 Aug;11(8):834–7

Palliative gastrojejunostomy. A minimally invasive approach. Chung RS, et al. **Surg Endosc** 1997 Jun;11(6):676–8

Stomach–preserving gastric bypass for unresectable pancreatic cancer. Konishi M, et al. **Surg Today** 1997; 27(5):429–33

Randomized trial of three types of gastrojejunostomy in unresectable periampullary cancer. Shyr YM, et al. **Surgery** 1997 May;121(5):506–12

THERAPY

Self–expanding metallic stents as palliative treatment of malignant gastroduodenal stenosis. de Baere T, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1079–83

Gastric outlet obstruction and Helicobacter pylori [letter;

comment] de Boer WA. **Am J Gastroenterol** 1997 Feb; 92(2):362–3. Comment on: Am J Gastroenterol 1996 May;91(5):987–90.

Endoscopic treatment of gastric outlet obstruction caused by a gallstone (Bouveret's syndrome) after extracorporeal shock-wave lithotripsy. Dumonceau JM, et al. **Endoscopy** 1997 May;29(4):319–21 (12 ref.)

Peroral insertion techniques of self-expanding metal stents for malignant gastric outlet and duodenal stenoses. Maetani I, et al. **Gastrointest Endosc** 1996 Oct;44(4):468–71 (12 ref.)

[Treatment of stenoses of the gastrointestinal tract] Grund KE. **Schweiz Rundsch Med Prax** 1997 Jul 16; 86(29–30):1154–9 (9 ref.) (Eng. Abstr.) **(Ger)**

VETERINARY

Management of pyloric obstruction in a foal [clinical conference] Aronoff N, et al. **J Am Vet Med Assoc** 1997 Apr 1;210(7):902–5; discussion 905–7

High prevalence of gastric trichobezoars (hair balls) in Wistar-Kyoto rats fed a semi-purified diet. Krugner-Higby L, et al. **Lab Anim Sci** 1996 Dec;46(6):635–9

GASTRIC PARIETAL CELLS see **PARIETAL CELLS, GASTRIC**

GASTRIC STASIS see **GASTROPARESIS**

GASTRIC STUMP

Gastric cancer in the bypassed segment after operation for morbid obesity. Lord RV, et al. **Aust N Z J Surg** 1997 Aug;67(8):580–2

Positive association between dietary fat intake and risk of gastric stump carcinoma in rats. Miwa K, et al. **Carcinogenesis** 1996 Sep;17(9):1885–9

Clinicopathologic characteristics and prognosis of gastric stump cancer. Chen CN, et al. **J Clin Gastroenterol** 1996 Dec;23(4):251–5

Gastric stump carcinoma after partial gastrectomy for benign gastric lesion: what is feasible as standard surgical treatment? Kodera Y, et al. **J Surg Oncol** 1996 Oct; 63(2):119–24

Malignant lymphoma of the gastric stump developing 25 years after a distal gastrectomy for benign gastric disease: report of a case. Kondo K, et al. **Surg Today** 1996; 26(10):803–6

[Carcinoma of the gastric stump. Our experience in 28 treated cases] Barillari P, et al. **Minerva Chir** 1997 Jun;52(6):713–6 (Eng. Abstr.) **(Ita)**

[Effect of FUT-187, oral serine protease inhibitor, on inflammation in the gastric remnant] Shiozaki H, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1971–9 (Eng. Abstr.) **(Jpn)**

[The clinicopathological features and operative results in a cancer of the remnant stomach--risk and prevention of cancer after partial gastrectomy] Shibao K, et al. **Sangyo Ika Daigaku Zasshi** 1997 Jun 1;19(2):147–56 (Eng. Abstr.) **(Jpn)**

[Cancer of gastric stump after surgery of peptic ulcer] Dudenko GI, et al. **Klin Khir** 1996;(6):33–5 **(Rus)**

[Cancer of the gastric stump (letter)] Larrubia Marfil JR, et al. **An Med Interna** 1996 Feb;13(2):102 **(Spa)**

PATHOLOGY

Morphologic, histologic, and molecular similarities between adenocarcinomas arising in the gastric stump and the intact stomach. Safatle-Ribeiro AV, et al. **Cancer** 1996 Dec 1; 78(11):2288–99

Is there a dysplasia–carcinoma sequence in rat gastric remnant? Schwab GP, et al. **Dig Dis Sci** 1997 Mar; 42(3):608–15

Remnant-stump gastric cancer following partial gastrectomy-clinicopathological studies. Takeda J, et al. **Kurume Med J** 1996;43(4):267–72

Gastric stump carcinosarcoma with rhabdomyosarcomatous differentiation. Matsukuma S, et al. **Pathol Int** 1997 Jan; 47(1):73–7

SURGERY

Gastric stump carcinoma: a surgical challenge. Looi KP, et al. **Singapore Med J** 1996 Apr;37(2):184–5 (15 ref.)

[A new method for restoring the continuity of the digestive tract in repeat operations on the gastric stump and esophageal anastomosis] Sheleshko PV, et al. **Vestn Khir Im I I Grek** 1996;155(2):88–90 **(Rus)**

[A chemical burn of the esophagus, gastric stump and jejunum] Volobuev NN, et al. **Vestn Khir Im I I Grek** 1996; 155(2):44–5 **(Rus)**

GASTRIC VARICES see **ESOPHAGEAL AND GASTRIC VARICES**

GASTRIN-PRODUCING TUMOR see **GASTRINOMA**

GASTRIN RECEPTORS see **RECEPTORS, CHOLECYSTOKININ**

GASTRIN-RELEASING PEPTIDE RECEPTORS see **RECEPTORS, BOMBESIN**

GASTRINOMA

see related
MULTIPLE ENDOCRINE NEOPLASIA TYPE 1
ZOLLINGER-ELLISON SYNDROME

[Extrahepatic gastrinoma. Report of a clinical case] Toppino M, et al. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):161–7 (Eng. Abstr.) **(Ita)**

[Treatment of liver metastasis of endocrine tumors of the pancreas] Orozco Zepeda H. **Rev Gastroenterol Mex** 1997 Jan-Mar;62(1):50–6 (28 ref.) (Eng. Abstr.) **(Spa)**

[Endocrine tumors of the pancreas at a Mexican institution] Canto Jairala JA, et al. **Rev Invest Clin** 1997 Jan-Feb; 49(1):25–30 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Primary cardiac gastrinoma causing Zollinger-Ellison syndrome. Gibril F, et al. **Gastroenterology** 1997 Feb; 112(2):567–74

Duodenal microgastrinomas associated with Zollinger-Ellison syndrome. Schröder W, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1465–9

DIAGNOSIS

Preoperative diagnosis of a small endocrine tumor of the pancreas. Doppman JL. **AJR Am J Roentgenol** 1997 May; 168(5):1376–7

Gastrointestinal endocrine tumours. Gastrinoma. Jensen RT. **Baillieres Clin Gastroenterol** 1996 Dec;10(4):603–43 (220 ref.)

Neuroendocrine tumors: common presentations of uncommon diseases. Kirkwood KS, et al. **Compr Ther** 1995 Dec;21(12):719–25

Endoscopic ultrasonography and somatostatin receptor scintigraphy in the preoperative localisation of insulinomas and gastrinomas. Zimmer T, et al. **Gut** 1996 Oct;39(4):562–8

Use of calcium provocative test in the diagnosis of gastroenteropancreatic endocrine tumors. Vezzadini C, et al. **Panminerva Med** 1996 Dec;38(4):255–8 (14 ref.)

[Acute abdomen caused by jejunal perforation as a clinical presentation of MEN-1 syndrome] Uriarte C, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):289–91 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

The use of new somatostatin analogues, lanreotide and octastatin, in neuroendocrine gastro-intestinal tumours. Eriksson B, et al. **Digestion** 1996;57 Suppl 1:77–80

GENETICS

Pancreatic endocrine tumors with loss of heterozygosity at the multiple endocrine neoplasia type I locus. Eubanks PJ, et al. **Am J Surg** 1997 Jun;173(6):518–20

Allelic deletions on chromosome 11q13 in multiple endocrine neoplasia type 1-associated and sporadic gastrinomas and pancreatic endocrine tumors. Debelenko LV, et al. **Cancer Res** 1997 Jun 1;57(11):2238–43

HISTORY

Gastrinoma before Zollinger and Ellison. Stabile BE. **Am J Surg** 1997 Sep;174(3):232–6 (21 ref.)

METABOLISM

Value of somatostatin receptor scintigraphy: a prospective study in gastrinoma of its effect on clinical management. Termanini B, et al. **Gastroenterology** 1997 Feb; 112(2):335–47

PATHOLOGY

Peritoneal carcinomatosis in patients with digestive endocrine tumors. Vasseur B, et al. **Cancer** 1996 Oct 15;78(8):1686–92

Pancreatic-polypeptide cell hyperplasia associated with pancreatic or duodenal gastrinomas. Martella EM, et al. **Hum Pathol** 1997 Feb;28(2):149–53

Primary liver gastrinoma. Tiomny E, et al. **J Clin Gastroenterol** 1997 Apr;24(3):188–91

Growth of newly diagnosed, untreated metastatic gastrinomas and predictors of growth patterns. Sutliff VE, et al. **J Clin Oncol** 1997 Jun;15(6):2420–31

Gastrointestinal endocrine cancers and nodal metastasis: biologic significance and therapeutic implications. Peplinski GR, et al. **Surg Oncol Clin N Am** 1996 Jan;5(1):159–71 (101 ref.)

PHYSIOPATHOLOGY

Mechanisms of bombesin on growth of gastrinoma (PT) in vivo. Chu KU, et al. **Dig Dis Sci** 1996 Nov;41(11):2180–6

RADIOGRAPHY

Case report: multiple duodenal gastrinomas demonstrated with spiral CT [see comments] Blomley MJ, et al. **Clin Radiol** 1996 Nov;51(11):811–3. Comment in: Clin Radiol 1997 Jun;52(6):481.

Multiple duodenal gastrinomas demonstrated with spiral CT [letter; comment] Kay CL, et al. **Clin Radiol** 1997 Jun; 52(6):481. Comment on: Clin Radiol 1996 Nov;51(11):811–3.

RADIONUCLIDE IMAGING

111In-pentetreotide detection of gastrinoma before and after surgery. Scopinaro F, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1757–60

Detection of multiple hepatic metastases of gastrinoma not apparent on CT by In-111 octerotide scintigraphy. McInerney GF, et al. **Clin Nucl Med** 1996 Sep;21(9):730–1

A 7-year-old child with primary tumour localisation in the distal duodenum--new imaging procedures for an improved diagnosis. Cholewa D, et al. **Eur J Pediatr** 1997 Jul;156(7):568–71

Preoperative detection of duodenal gastrinomas and peripancreatic lymph nodes by somatostatin receptor scintigraphy. Groupe D'etude Du Syndrome De Zollinger-Ellison. Cadiot G, et al. **Gastroenterology** 1996 Oct;111(4):845–54

Value of somatostatin receptor scintigraphy: a prospective study in gastrinoma of its effect on clinical management. Termanini B, et al. **Gastroenterology** 1997 Feb; 112(2):335–47

Changing approach to gastroenteropancreatic tumours. Case report of a gastrinoma metastasis localized by somatostatin-receptor scintigraphy. Fries W, et al. **Ital J Gastroenterol** 1996 May;28(4):220–4

The value of somatostatin-receptor scintigraphy in newly diagnosed endocrine gastroenteropancreatic tumors. Kisker O, et al. **J Am Coll Surg** 1997 May;184(5):487–92

Distinguishing small hepatic hemangiomas from vascular liver metastases in gastrinoma: use of a somatostatin-receptor scintigraphic agent. Termanini B, et al. **Radiology** 1997 Jan;202(1):151–8

SECONDARY

Detection of multiple hepatic metastases of gastrinoma not apparent on CT by In-111 octerotide scintigraphy. McInerney GF, et al. **Clin Nucl Med** 1996 Sep;21(9):730–1

Liver metastases of digestive endocrine tumours: natural history and response to medical treatment. Skinazi F, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):673–8

Changing approach to gastroenteropancreatic tumours. Case report of a gastrinoma metastasis localized by somatostatin-receptor scintigraphy. Fries W, et al. **Ital J Gastroenterol** 1996 May;28(4):220–4

Growth of newly diagnosed, untreated metastatic gastrinomas and predictors of growth patterns. Sutliff VE, et al. **J Clin Oncol** 1997 Jun;15(6):2420–31

Distinguishing small hepatic hemangiomas from vascular liver metastases in gastrinoma: use of a somatostatin-receptor scintigraphic agent. Termanini B, et al. **Radiology** 1997 Jan;202(1):151–8

[Interstitial laser hyperthermia of gastrinoma liver metastases in a child] Cholewa D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:272–4 (Eng. Abstr.) **(Ger)**

SECRETION

Gastrin-producing tumors. Jensen RT. **Cancer Treat Res** 1997;89:293–334 (201 ref.)

SURGERY

111In-pentetreotide detection of gastrinoma before and after surgery. Scopinaro F, et al. **Anticancer Res** 1997 May-Jun; 17(3B):1757–60

Uncommon case of gastrinoma in a child. Eire PF, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):173–4

Is reoperation for gastrinoma excision indicated in Zollinger-Ellison syndrome? Jaskowiak NT, et al. **Surgery** 1996 Dec;120(6):1055–62; discussion 1062–3

[Posterior resection of of the head of the pancreas in malignant duodenal gastrinoma] Schmidt J, et al. **Chirurg** 1997 Apr;68(4):425–8 (Eng. Abstr.) **(Ger)**

[Surgical therapy of gastrinoma with associated Zollinger-Ellison syndrome] Schröder W, et al. **Z Gastroenterol** 1996 Aug;34(8):465–72 (Eng. Abstr.) **(Ger)**

[New etiopathogenic, clinical and therapeutic findings in multiple endocrine neoplasia type 1] Tomassetti P, et al. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):133–43 (53 ref.) (Eng. Abstr.) **(Ita)**

THERAPY

Liver metastases of digestive endocrine tumours: natural history and response to medical treatment. Skinazi F, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):673–8

Is gastrinoma a medical disease? Mignon M, et al. **Yale J Biol Med** 1996 May-Jun;69(3):289–300 (45 ref.)

ULTRASONOGRAPHY

[Endosonographic demonstration of extrapancreatic and extraintestinal gastrinoma] Rogler G, et al. **Dtsch Med Wochenschr** 1996 Dec 6;121(49):1531–6 (Eng. Abstr.) **(Ger)**

VETERINARY

Evaluation of somatostatin analogues for the detection and treatment of gastrinoma in a dog. Altschul M, et al. **J Small Anim Pract** 1997 Jul;38(7):286–91

Gastrin-secreting pancreatic endocrine tumor in a dog (putative Zollinger-Ellison syndrome). Hayden DW, et al.

GASTRINOMA

J Vet Diagn Invest 1997 Jan;9(1):100–3

GASTRINS

see related

GASTROINTESTINAL AGENTS

The pivotal role of John S. Edkins in the discovery of gastrin. Modlin IM, et al. **World J Surg** 1997 Feb;21(2):226–34 (35 ref.)

[Gastrin and gastrin receptor] Chiba T. **Nippon Rinsho** 1996 Apr;54(4):1083–6 (18 ref.) (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Inhibition of gastrin-stimulated gastric acid secretion by medium-chain triglycerides and long-chain triglycerides in healthy young men. Maas MI, et al. **Regul Pept** 1996 Oct 22;66(3):203–10

AGONISTS

Evaluation of biologic gastrin activity of compound CI-988 in the isolated, vascularly perfused rat stomach. Marvik R, et al. **Scand J Gastroenterol** 1997 Jun;32(6):519–22

ANALYSIS

Gastrin levels in mothers and neonates at delivery in various perinatal conditions. Morán C, et al.
Acta Obstet Gynecol Scand 1996 Aug;75(7):608–11

Mapping of ligand binding sites of the cholecystokinin-B/gastrin receptor with lipo-gastrin peptides and molecular modeling. Lutz J, et al.
Biopolymers 1997 Jun;41(7):799–817

The G-cells in the dog: a light and electron microscope immunocytochemical study. Galán JA, et al.
Histochem J 1996 Dec;28(12):883–93

The effects of long-term low-protein intake on gastrin cells of the rat antral mucosa during adulthood. Varagic J, et al. **Histol Histopathol** 1996 Oct;11(4):837–43

Characterization of a new neurosecretory cell type containing gastrin-cholecystokinin-like peptide in the locust pars intercerebralis: ultrastructural and immunocytochemical studies, in situ and in vitro. Tamarelle M, et al. **J Neurocytol** 1997 Jun;26(6):399–406

Ontogeny of gastrin and cholecystokinin in the colon and duodenum of sheep. Ciccotosto GD, et al. **Regul Pept** 1996 Apr 23;62(2–3):97–105

ANTAGONISTS & INHIBITORS

Peptide YY inhibition of rat gastric enterochromaffin-like cell function. Zeng N, et al. **Gastroenterology** 1997 Jan; 112(1):127–35

The influence of gastrin and/or cholecystokinin antagonists on the proliferation of three human astrocytic tumor cell lines. Camby I, et al. **Neuropeptides** 1996 Oct;30(5):433–7

BIOSYNTHESIS

Growth hormone upregulates gastrin and peptide YY gene expression. Gomez G, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E582–6

The G cell. Sawada M, et al. **Annu Rev Physiol** 1997; 59:273–98 (147 ref.)

Pharmacological and biochemical evidence for the simultaneous expression of CCKB/gastrin and CCKA receptors in the pig pancreas. Philippe C, et al.
Br J Pharmacol 1997 Feb;120(3):447–54

Synthesis and biological activities of some human gastrin analogs. Lima-Leite AC, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1253–63

Control of preprogastrin messenger RNA translation by gastric acid in the rat. Bate GW, et al.
Gastroenterology 1996 Nov;111(5):1224–9

Gastrin biosynthesis in the antrum of patients with pernicious anemia. Varro A, et al. **Gastroenterology** 1997 Mar; 112(3):733–41

EGF receptor activation stimulates endogenous gastrin gene expression in canine G cells and human gastric cell cultures. Ford MG, et al. **J Clin Invest** 1997 Jun 1;99(11):2762–71

Increased sensitivity of gastrin cells to gastric distension following antral denervation in the rat. Higham A, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):169–75

Regulation by gastric acid of the processing of progastrin-derived peptides in rat antral mucosa. Macro JA, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):409–19

Effects of Ostertagia ostertagi on gastrin gene expression and gastrin-related responses in the calf. Purewal A, et al.
J Physiol (Lond) 1997 Feb 1;498 (Pt 3):809–16

BLOOD

Gut hormone concentrations in preterm infants with necrotizing enterocolitis. Gounaris A, et al.
Acta Paediatr 1997 Jul;86(7):762–3

Effect of cimetidine on basal and postprandial plasma concentrations of cholecystokinin and gastrin in humans. Støa-Birketvedt G, et al. **Acta Physiol Scand** 1997 Apr; 159(4):321–5

The effect of indomethacin-induced gastric mucosal injury on 24-h intragastric acidity and plasma gastrin concentration in healthy volunteers. Rademaker JW, et al.
Aliment Pharmacol Ther 1995 Dec;9(6):625–31

Histamine H2-receptor antagonist action of ebrotidine. Effects on gastric acid secretion, gastrin levels and NSAID-induced gastrotoxicity in the rat. Palop D, et al.
Arzneimittelforschung 1997 Apr;47(4A):439–46

Comparative study of plasma gastrin levels in rats after two months of ebrotidine administration. Romero A, et al.
Arzneimittelforschung 1997 Apr;47(4A):524–7

The peroxisome-proliferator ciprofibrate induces hypergastrinemia without raising gastric pH. Martinsen TC, et al. **Carcinogenesis** 1996 Oct;17(10):2153–5

Ethnic and genetic determinants of omeprazole disposition and effect. Caraco Y, et al. **Clin Pharmacol Ther** 1996 Aug; 60(2):157–67

Gastrin and colon cancer: a unifying hypothesis. Joshi SN, et al. **Dig Dis** 1996 Nov-Dec;14(6):334–44 (78 ref.)

Changes in gastrin and serum pepsinogens in monitoring of Helicobacter pylori response to therapy. Pérez-Paramo M, et al. **Dig Dis Sci** 1997 Aug;42(8):1734–40

Effect of enprostil on omeprazole-induced hypergastrinemia and inhibition of gastric acid secretion in peptic ulcer patients. Tari A, et al. **Dig Dis Sci** 1997 Aug;42(8):1741–6

Evidence for a regulatory role for histamine in gastric enterochromaffin-like cell proliferation induced by hypergastrinemia. Modlin IM, et al. **Digestion** 1996; 57(5):310–21

Histidine decarboxylase expression and histamine metabolism in gastric oxyntic mucosa during hypergastrinemia and carcinoid tumor formation. Kölby L, et al.
Endocrinology 1996 Oct;137(10):4435–42

Effects of diet and feeding on postprandial serum gastrin and insulin concentration in adult horses. Smyth GB, et al.
Equine Vet J Suppl 1989 Jun;(7):56–9

Mechanism of gastric acid hypersecretion in patients with islet cell tumor without hypergastrinemia: studies in rats. Song Y, et al. **Gastroenterology** 1997 Oct;113(4):1129–35

Effect of chronic endogenous hypergastrinaemia on pancreatic growth and carcinogenesis in the hamster. Chu M, et al. **Gut** 1997 Apr;40(4):536–40

Site of peptic ulcer. comparison of hydrochloric acid output, pepsinogen and gastrin serum levels. Engler-Pinto Júnior P, et al. **Hepatogastroenterology** 1996 Nov-Dec; 43(12):1671–7

Gastrin levels in patients with colorectal cancer. Fontanesi BV, et al. **Hepatogastroenterology** 1997 Jul-Aug; 44(16):1082–4

Effects of omeprazole and lansoprazole on fasting and postprandial serum gastrin and serum pepsinogen A and C. Iwao T, et al. **Hepatogastroenterology** 1995 Sep-Oct; 42(5):677–82

Serum pepsinogen I and gastrin in peptic ulcer patients using nonsteroidal anti-inflammatory drugs. Kemppainen H, et al. **Hepatogastroenterology** 1997 Jul-Aug;44(16):1143–6

Circadian rhythmicity of plasma somatostatin, gastrin and cortisol in colon cancer patients. Payer J Jr, et al.
Hepatogastroenterology 1997 Jan-Feb;44(13):72–7

Stimulated gastrinemia, parietal cell mass and stimulated acid secretion in autonomous chronic gastritis: Helicobacter pylori influence. Testino G, et al.
Hepatogastroenterology 1995 Sep-Oct;42(5):650–4

Relationship of serum gastrin and Helicobacter pylori in the gastric antral and body mucosa [corrected and republished with original paging, article originally printed in Indian J Gastroenterol 1995 Jul; 14(3):99–101] Gill HH, et al.
Indian J Gastroenterol 1995 Oct;14(4):99–101

Processing-independent assay of serum gastrin for diagnosis of liver metastases in the Zollinger-Ellison syndrome. GRESZE (Groupe de Recherche et d'Etude du syndrome de Zollinger-Ellison) [letter] Jaïs P, et al. **Int J Cancer** 1997 Apr 10;71(2):308–9

Infection of sheep with adult and larval Ostertagia circumcincta: effects on abomasal pH and serum gastrin and pepsinogen. Lawton DE, et al. **Int J Parasitol** 1996 Oct;26(10):1063–74

Effects of adult and larval Haemonchus contortus on abomasal secretion. Simpson HV, et al. **Int J Parasitol** 1997 Jul;27(7):825–31

Pepsinogens and gastrointestinal symptoms in mountain marathon runners. Banfi G, et al. **Int J Sports Med** 1996 Nov;17(8):554–8

Time-dependent changes of serum gastrin and gastrin receptors in the rat oxyntic mucosa after proximal gastric vagotomy. Reina AJ, et al. **J Surg Res** 1997 Feb 1; 67(2):186–92

Role of endogenous bombesin-peptides during vagal stimulation of gastric acid secretion in the rat. Weigert N, et al. **Neuropeptides** 1996 Dec;30(6):521–7

Gastric carcinoid tumors associated with chronic hypergastrinemia in a patient with Zollinger-Ellison syndrome. Berger MW, et al. **Radiology** 1996 Nov; 201(2):371–3

Effects of long-term treatment with lansoprazole and omeprazole on serum gastrin and the fundic mucosa. Arroyo Villarino MT, et al. **Rev Esp Enferm Dig** 1997 May; 89(5):347–56 **(Eng, Spa)**

Basal chromogranin A and gastrin concentrations in circulation correlate to endocrine cell proliferation in type-A gastritis. Borch K, et al. **Scand J Gastroenterol** 1997 Mar;32(3):198–202

Association between serum gastrin levels, gastric acid secretion and age in early gastric cancer. Miyaji M, et al.
Tumour Biol 1997;18(5):311–20

[Helicobacter pylori, endocrine cells of the gastric mucosa, and their function in duodenal ulcer] Zverkov IV, et al. **Arkh Patol** 1996 Jan-Feb;58(1):33–7 (Eng. Abstr.) **(Rus)**

[Comparative study between seric I pepsinogen and seric gastrin, in the differentiation of the different types and localizations of chronic gastritis] Sánchez Rodríguez A, et al. **An Med Interna** 1996 Dec;13(12):576–9 (Eng. Abstr.) **(Spa)**

[Chronic atrophic gastritis, hypergastinemia and gastric carcinoid tumor] Castellote J, et al.
Rev Esp Enferm Dig 1997 Jun;89(6):485–7 (Eng. Abstr.) **(Spa)**

[The level of gastrin, insulin and glucagon in the blood and the morphometric characteristics of the gastric mucosa in peptic ulcer patients of different ages] Haĭdychuk VS, et al. **Lik Sprava** 1996 Oct-Dec;(10–12):80–4 (Eng. Abstr.) **(Ukr)**

CHEMISTRY

Mapping of ligand binding sites of the cholecystokinin-B/gastrin receptor with lipo-gastrin peptides and molecular modeling. Lutz J, et al.
Biopolymers 1997 Jun;41(7):799–817

DEFICIENCY

Gastrin deficiency results in altered gastric differentiation and decreased colonic proliferation in mice. Koh TJ, et al. **Gastroenterology** 1997 Sep;113(3):1015–25

DIAGNOSTIC USE

[Investigation of gastric juice (gastrin stimulating test, Histalog stimulating test)] Watanabe H, et al.
Nippon Rinsho 1997 Apr;55 Suppl 2:92–4 (5 ref.) **(Jpn)**

DRUG EFFECTS

Effect of carbachol on vascular and luminal release of immunoreactive gastrin from isolated perfused rat duodenum. Fujimiya M, et al. **Dig Dis Sci** 1997 Mar; 42(3):634–9

Influence of type of dietary fat (olive and sunflower oil) upon gastric acid secretion and release of gastrin, somatostatin, and peptide YY in man. Serrano P, et al. **Dig Dis Sci** 1997 Mar;42(3):626–33

Transient transcriptional activation of gastrin during sodium butyrate-induced differentiation of islet cells. Simon B, et al. **Regul Pept** 1997 Jun 18;70(2–3):143–8

CCKB/gastrin receptor antagonists: recent advances and potential uses in gastric secretory disorders. Jensen RT.
Yale J Biol Med 1996 May-Jun;69(3):245–59 (106 ref.)

[Gastrinemia and heparin stimulated secretion of diamine oxidase on the course of diabetic autonomic neuropathy] Loba J, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):10–3 (Eng. Abstr.) **(Pol)**

[Influence of long-term human recombinant erythropoietin treatment on secretion of pancreatic polypeptide and gastrin in hemodialysed patients with chronic renal failure] Nieszporek T, et al. **Przegl Lek** 1995;52(12):590–3 (Eng. Abstr.) **(Pol)**

GENETICS

Fos is required for EGF stimulation of the gastrin promoter. Marks P, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G942–8

Effects of fasting on the expression of gastrin, cholecystokinin, and somatostatin genes and of various housekeeping genes in the pancreas and upper digestive tract of rats. Yamada H, et al.
Biochem Biophys Res Commun 1997 Feb 24;231(3):835–8

Evaluation of cholecystokinin, gastrin, CCK-A receptor, and CCK-B/gastrin receptor gene expressions in gastric cancer. Okada N, et al. **Cancer Lett** 1996 Sep 10; 106(2):257–62

Characterization of the cholecystokinin and gastrin genes from the bullfrog, Rana catesbeiana: evolutionary conservation of primary and secondary sites of gene expression. Rourke IJ, et al. **Endocrinology** 1997 Apr; 138(4):1719–27

Effect of carboxypeptidase E deficiency on progastrin processing and gastrin messenger ribonucleic acid expression in mice with the fat mutation. Udupi V, et al.
Endocrinology 1997 May;138(5):1959–63

RAP1-like binding activity in islet cells corresponds to members of the Sp1 family of transcription factors. Simon B, et al. **FEBS Lett** 1997 Jul 14;411(2–3):383–8

Transcriptional expression of gastrin mRNA in Helicobacter pylori infected patients. Gupta A, et al.
Indian J Med Res 1997 Mar;105:136–40

New consensus features for tyrosine O-sulfation determined by mutational analysis. Bundgaard JR, et al.
J Biol Chem 1997 Aug 29;272(35):21700–5

Effects of Ostertagia ostertagi on gastrin gene expression and gastrin-related responses in the calf. Purewal A, et al.
J Physiol (Lond) 1997 Feb 1;498 (Pt 3):809–16

ZBP-89, a Krüppel-like zinc finger protein, inhibits epidermal growth factor induction of the gastrin promoter. Merchant JL, et al. **Mol Cell Biol** 1996 Dec;16(12):6644–53

Elasmobranchs express separate cholecystokinin and gastrin genes. Johnsen AH, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10221–6

Transient transcriptional activation of gastrin during sodium butyrate-induced differentiation of islet cells. Simon B, et al. **Regul Pept** 1997 Jun 18;70(2–3):143–8

[The transcriptional regulation of the human gastrin gene

by EGF] Shiotani A. **Nippon Rinsho** 1996 Apr; 54(4):1087–91 (20 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Heterogeneity of cholecystokinin/gastrin–like immunoreactivity in the nervous system of the nematode Ascaris suum. Sithigorngul P, et al. **J Comp Neurol** 1996 Jul 8;370(4):427–42

Mediators of antigen–induced gastrin release: role of antigen–antibody complexes and the complement system. Domínguez Fernández E, et al. **Res Exp Med (Berl)** 1997; 197(1):37–43

METABOLISM

Mononuclear cells and cytokines stimulate gastrin release from canine antral cells in primary culture. Lehmann FS, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G783–8

L–type calcium channels regulate gastrin release from human antral G cells. Ray JM, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G281–8

Stability of gastrin in the gastrointestinal lumen of suckling, weanling and adult pigs. Xu RJ, et al. **Biol Neonate** 1996; 70(1):60–8

Endocytosis of gastrin in cancer cells expressing gastrin/CCK–B receptor. Tarasova NI, et al. **Cell Tissue Res** 1997 Feb;287(2):325–33

Biology of gut cholecystokinin and gastrin receptors. Shulkes A, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr; 24(3–4):209–16 (98 ref.)

Effects of adrenalectomy on serotonin–, somatostatin–, and gastrin–immunoreactive cells in rat gastrointestinal tract. Glória H, et al. **Dig Dis Sci** 1997 Jun;42(6):1216–20

Hepatic and intestinal elimination of endogenous gastrin in pigs. Hansen CP, et al. **Digestion** 1996;57(5):356–61

Prostaglandin E2 modulates serotonin– and gastrin/CCK–immunoreactive cells in the duodenal mucosa of the rat. Kapraali M, et al. **Digestion** 1997; 58(3):249–57

Effect of carboxypeptidase E deficiency on progastrin processing and gastrin messenger ribonucleic acid expression in mice with the fat mutation. Udupi V, et al. **Endocrinology** 1997 May;138(5):1959–63

Effect of Helicobacter pylori products and recombinant cytokines on gastrin release from cultured canine G cells. Beales I, et al. **Gastroenterology** 1997 Aug;113(2):465–71

The effect of gastrin–releasing peptide on gastrin and somatostatin messenger RNAs in humans infected with Helicobacter pylori. Gibbons AH, et al. **Gastroenterology** 1997 Jun;112(6):1940–7

Effect of cholinergic agonists on gastrin release from primary cultures of human antral G cells. Koop I, et al. **Gastroenterology** 1997 Feb;112(2):357–63

Alterations in gastrin cells induced by short–term omeprazole treatment in the rat antrum: an immunocytochemical and in situ hybridization study. Bolkent S, et al. **Histochem J** 1997 Jun;29(6):479–85

Gastrin and gastrin receptor antagonists bind to both N– and C–terminal halves of the 78 kDa gastrin–binding protein. Murphy VJ, et al. **Int J Biochem Cell Biol** 1996 Nov; 28(11):1233–40

Gastrin levels in colorectal cancer. Niv Y, et al. **Isr J Med Sci** 1997 Mar;33(3):186–9

New consensus features for tyrosine O–sulfation determined by mutational analysis. Bundgaard JR, et al. **J Biol Chem** 1997 Aug 29;272(35):21700–5

Carcinoid tumor of the common bile duct producing gastrin and serotonin. Hao L, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):63–5

Metal ion binding affinities of gastrin and CCK in membrane mimetic environments. Lutz J, et al. **J Pept Sci** 1995 Nov–Dec;1(6):360–70

Regulation by gastric acid of the processing of progastrin–derived peptides in rat antral mucosa. Macro JA, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):409–19

Amine precursor uptake and decarboxylation: significance for processing of the rat gastrin precursor. Voronina S, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):363–74

Short–term caloric restriction augments age–related decreases in gastrin content and release. Chu KU, et al. **Mech Ageing Dev** 1996 May 24;87(1):25–33

Gastrin–releasing peptide in hypoplastic lungs. Durbin J, et al. **Pediatr Pathol Lab Med** 1996 Nov–Dec;16(6):927–34

Characterization of somatostatin receptor subtypes mediating inhibition of nutrient–stimulated gastric acid and gastrin in dogs. Fung LC, et al. **Regul Pept** 1997 Feb 26; 68(3):197–203

Interaction of nicotine and a H2–receptor antagonist, famotidine, on gastrin and chromogranin A expression. Gomez G, et al. **Regul Pept** 1997 Mar 26;69(2):77–82

Influence of nicotine on gastrin and peptide YY in the rat. Gomez G, et al. **Regul Pept** 1996 Nov 14;67(1):55–61

Phosphorylation of gastrin–related peptides: physiological casein kinase like enzyme in Golgi membranes from bovine adrenal chromaffin cells and GH3 cells. Vegh M, et al. **Regul Pept** 1997 Jan 15;68(1):37–43

Role of vagal fibers and bombesin/gastrin–releasing peptide–neurons in distention–induced gastrin release in rats. Weigert N, et al. **Regul Pept** 1997 Mar 12;69(1):33–40

Depletion of enterochromaffin–like cell histamine increases histidine decarboxylase and chromogranin A mRNA levels in rat stomach by a gastrin–independent mechanism. Andersson K, et al. **Scand J Gastroenterol** 1996 Oct; 31(10):959–65

Gastrin levels in serum and bronchoalveolar lavage fluid of patients with lung cancer: comparison with patients with chronic obstructive pulmonary disease. Dowlati A, et al. **Thorax** 1996 Dec;51(12):1270–2

Changes in gastric acid secretion and fasting gastrin levels during healing of duodenal ulcers. Hasebe T, et al. **Tokai J Exp Clin Med** 1995 Jul;20(2):131–5

CCKB/gastrin receptor antagonists: recent advances and potential uses in gastric secretory disorders. Jensen RT. **Yale J Biol Med** 1996 May–Jun;69(3):245–59 (106 ref.)

PHARMACOKINETICS

Pharmacokinetics and organ metabolism of carboxyamidated and glycine–extended gastrins in pigs. Hansen CP, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G156–63

PHARMACOLOGY

Gastrin activates tyrosine kinase and phospholipase C in isolated rat colonocytes. Małecka–Panas E, et al. **Acta Biochim Pol** 1996;43(3):539–46

The fade of gastrin–stimulated gastric acid secretion in the rat is due to depletion of releasable mucosal histamine. Rønning K, et al. **Acta Physiol Scand** 1996 Aug; 157(4):487–91

Glycine–extended gastrin potentiates gastrin–stimulated gastric acid secretion in rats. Higashide S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G220–4

Protective action of gastrin–17 against alcohol–induced gastric injury in the rat: role in mucosal defense. Mercer DW, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G365–73

Tyrosine phosphorylation of insulin receptor substrate–1 and activation of the PI–3–kinase pathway by glycine–extended gastrin precursors. Kowalski–Chauvel A, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):687–92

Induction of heparin binding epidermal growth factor–like growth factor and amphiregulin mRNAs by gastrin in the rat stomach. Tsutsui S, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):520–3

Ca2+ and protein kinase C–dependent mechanisms involved in gastrin–induced Shc/Grb2 complex formation and P44–mitogen–activated protein kinase activation. Daulhac L, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):383–9

Lipogastrins as potent inhibitors of viral fusion. Epand RF, et al. **Biochim Biophys Acta** 1997 Jul 25;1327(2):259–68

Chicken parathyroid hormone gene expression in response to gastrin, omeprazole, ergocalciferol, and restricted food intake. Gagnemo–Persson R, et al. **Calcif Tissue Int** 1997 Sep;61(3):210–5

Inhibitory effect of gastrin peptides on triacylglycerol secretion in Hep G2 cells. Lindholm M, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):393–8

Regulation of growth of human gastric cancer by gastrin and glycine–extended progastrin. Iwase K, et al. **Gastroenterology** 1997 Sep;113(3):782–90

Gastrin stimulates tyrosine phosphorylation of insulin receptor substrate 1 and its association with Grb2 and the phosphatidylinositol 3–kinase. Kowalski–Chauvel A, et al. **J Biol Chem** 1996 Oct 18;271(42):26356–61

Modulation of human neutrophil function in vitro by gastrin. De la Fuente M, et al. **J Endocrinol** 1997 Jun;153(3):475–83

Acute and long–term effects of gastrin on muscle and bone calcium uptake in rats. Krishnamra N, et al. **J Nutr Sci Vitaminol (Tokyo)** 1995 Dec;41(6):687–97

Paracrine stimulation of cell growth by cholecystokinin/gastrin through cholecystokinin–B receptor on GH3 cells in vitro. Xu Y, et al. **Neuroendocrinology** 1996 Oct;64(4):280–5

Gastric secretion but not nitric oxide is involved in pentagastrin–induced gastric relaxation in conscious dogs. Meulemans AL, et al. **Neurogastroenterol Motil** 1997 Mar; 9(1):49–54

Influence of epidermal growth factor and gastrin on the cell proliferation of human meningiomas versus astrocytic tumors maintained as ex vivo tissue cultures. Camby I, et al. **Neuropeptides** 1997 Jun;31(3):217–25

The influence of gastrin and/or cholecystokinin antagonists on the proliferation of three human astrocytic tumor cell lines. Camby I, et al. **Neuropeptides** 1996 Oct;30(5):433–7

Effects of gastrin on the histamine–secretory and proliferative activity of cultured carcinoid cells derived from the stomach of the rodent Mastomys natalensis. Takeno S, et al. **Pathol Int** 1997 Feb–Mar;47(2–3):95–102

Differential responsiveness of proximal and distal colonic mucosa to gastrin. Małecka–Panas E, et al. **Peptides** 1997; 18(4):559–65

Effect of cholecystokinin and gastrin on human peripheral blood lymphocyte functions, implication of cyclic AMP and interleukin 2. Carrasco M, et al. **Regul Pept** 1997 Jun 18;70(2–3):135–42

Gastrin–evoked secretion of pancreastatin and histamine from ECL cells and of acid from parietal cells in isolated, vascularly perfused rat stomach. Effects of isobutyl methylxanthin and alpha–fluoromethylhistidine. Chen D, et al. **Regul Pept** 1996 Sep 9;65(2):133–8

PHYSIOLOGY

Rat histidine decarboxylase promoter is regulated by gastrin through a protein kinase C pathway. Höcker M, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G619–33

Gastrin regulates the human histidine decarboxylase promoter through an AP–1–dependent mechanism. Höcker M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G822–30

Inhibition of sham feeding–stimulated acid secretion in dogs by immunoneutralization of gastrin. Kovacs TO, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G399–403

Role of vagus nerves and gastrin in the gastric phase of acid secretion in male anesthetized rats. Noto T, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G335–9

Gastrin mediates the gastric mucosal proliferative response to feeding. Ohning GV, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G470–6

Gastrin regulates growth of human pancreatic cancer in a tonic and autocrine fashion. Smith JP, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1078–84

Wortmannin–sensitive activation of p70S6–kinase and MAP–kinase by the G protein–coupled receptor, G/CCKB. Seva C, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):202–6

Exocytosis in the antral gastrin cells of mouse, rat, and guinea pig after stimulation by carbamylcholine. Oomori Y, et al. **Cell Tissue Res** 1997 Sep;289(3):463–72

Role of gastrin/CCK–B receptor in the regulation of gastric acid secretion in rat. Tari A, et al. **Dig Dis Sci** 1997 Sep; 42(9):1901–7

Role of endogenous hypergastrinemia in regenerating endocrine pancreas after partial pancreatectomy. Xu G, et al. **Dig Dis Sci** 1996 Dec;41(12):2433–9

The gastrin–histamine sequence [letter; comment] Waldum HL, et al. **Gastroenterology** 1996 Sep;111(3):838–9. Comment on: Gastroenterology 1996 Mar;110(3):926–38.

Processing and proliferative effects of human progastrin in transgenic mice. Wang TC, et al. **J Clin Invest** 1996 Oct 15;98(8):1918–29

Comparative evaluation of the role of endogenous gastrin in basal acid secretion in conscious rats provided with chronic fistula and pylorus ligation. Nishida A, et al. **Jpn J Pharmacol** 1996 Jul;71(3):223–30

Gastrin effects on growth and exocrine secretion in the neonatal rat pancreas. Ballinger A, et al. **Pancreas** 1997 Apr;14(3):295–300

Gastrin partially mediates insulin–induced acid secretion in dogs. Kovacs TO, et al. **Peptides** 1996;17(4):583–7

Deficient gastric lipase secretion in pancreatic insufficiency. Wøjdemann M, et al. **Scand J Gastroenterol** 1997 Mar; 32(3):268–72

Rat stomach enterochromaffin–like cells are not stimulated by pylorus ligation. A biochemical and ultrastructural study. Zhao CM, et al. **Scand J Gastroenterol** 1996 Jan; 31(1):31–7

[Gastrin and its role in the development of ulcer disease] Lehmann FS. **Schweiz Med Wochenschr** 1997 Apr 5; 127(14):579–84 (35 ref.) (Eng. Abstr.) **(Ger)**

SECRETION

The effect of L–tryptophan load on endocrine system of pancreas in diabetes mellitus. Martinsone D, et al. **Adv Exp Med Biol** 1996;398:413–6

Antral gastrin cell hyperfunction and Helicobacter pylori infection. Annibale B, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):607–15

Long–term treatment with lansoprazole for patients with Zollinger–Ellison syndrome. Hirschowitz BI, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):507–22

Characterization of a beta 3–adrenoceptor stimulating gastrin and somatostatin secretions in rat antrum. Levasseur S, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1000–6

Somatostatin inhibits gastrin release and acid secretion by activating sst2 in dogs. Lloyd KC, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1481–8

Evidence that endogenous GRP in rat stomach mediates omeprazole–induced hypergastrinemia. Takehara Y, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G799–804

Lower density of antral somatostatin–immunoreactive cells in the digestive form of chronic Chagas' disease. Troncon LE, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1449–54

Immunocytochemical and morphometric studies of gastrin–, somatostatin– and serotonin–producing cells in the stomach and duodenum of patients with acid peptic disorders. Yacoub WR, et al. **Can J Gastroenterol** 1996 Oct; 10(6):395–400

Effect of carbachol on vascular and luminal release of immunoreactive gastrin from isolated perfused rat duodenum. Fujimiya M, et al. **Dig Dis Sci** 1997 Mar; 42(3):634–9

Tumour necrosis factor alpha stimulates gastrin release from canine and human antral G cells: possible mechanism of the Helicobacter pylori–gastrin link. Beales IL, et al. **Eur J Clin Invest** 1996 Jul;26(7):609–11

Tachykinins mediate vagal inhibition of gastrin secretion in pigs. Schmidt P, et al. **Gastroenterology** 1996 Oct; 111(4):925–35

Neural and paracrine regulation of gastrin and gastric acid secretion [letter; comment] Schubert ML, et al. **Gastroenterology** 1996 Sep;111(3):837–8. Comment on: Gastroenterology 1996 Mar;110(3):926–38.

Somatostatin receptor subtype 2 mediates inhibition of gastrin and histamine secretion from human, dog, and rat antrum. Zaki M, et al. **Gastroenterology** 1996 Oct;111(4):919–24

Gastric acid secretion [letter; comment] Beales IL. **Gut** 1997 Jan;40(1):155. Comment on: Gut 1996 May;38(5):663–7.

Alcoholic beverages produced by alcoholic fermentation but

GASTRINS

not by distillation are powerful stimulants of gastric acid secretion in humans. Teyssen S, et al. **Gut** 1997 Jan; 40(1):49–56

Bombesin–induced gastrin release from canine G cells is stimulated by Ca2+ but not by protein kinase C, and is enhanced by disruption of rho/cytoskeletal pathways. Seensalu R, et al. **J Clin Invest** 1997 Sep 1;100(5):1037–46

Pyloric antral inhibition of gastrin release. Magee DF. **J Gastroenterol** 1996 Oct;31(5):758–63 (40 ref.)

The contrasting influence of chronic nicotine intake on gastrin and gastric acid secretion. Wong D, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):577–84

Gastric antigen challenge releases gastrin and eicosanoids and protects against ethanol. Bacha EA, et al. **J Surg Res** 1997 Jun;70(1):69–74

Short–term caloric restriction augments age–related decreases in gastrin content and release. Chu KU, et al. **Mech Ageing Dev** 1996 May 24;87(1):25–33

Comparison of somatostatin and pancreastatin on secretion of gastrin, pancreatic polypeptide, and peptide YY. Gomez G, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):165–7

Mediators of antigen–induced gastrin release: role of antigen–antibody complexes and the complement system. Domínguez Fernández E, et al. **Res Exp Med (Berl)** 1997; 197(1):37–43

GASTRITIS

Nonsteroidal anti–inflammatory drug gastropathy. Laine L. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):489–504 (76 ref.)

BLOOD

Cure of Helicobacter pylori infection in the elderly: effects of eradication on gastritis and serological markers. Pilotto A, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1021–7

Vitamin E and carotenoids in gastric biopsies: the relation to plasma concentrations in patients with and without Helicobacter pylori gastritis. Sanderson MJ, et al. **Am J Clin Nutr** 1997 Jan;65(1):101–6

[Comparative study between seric I pepsinogen and seric gastrin, in the differentiation of the different types and localizations of chronic gastritis] Sánchez Rodríguez A, et al. **An Med Interna** 1996 Dec;13(12):576–9 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Fatal haemorrhagic gastritis associated with oral sulindac treatment for patent ductus arteriosus. Ng PC, et al. **Acta Paediatr** 1996 Jul;85(7):884–6

Cholecystokinin–induced protection against gastric injury is independent of endogenous somatostatin. Mercer DW, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G692–700

Histological features do not define NSAID–induced gastritis. El–Zimaity HM, et al. **Hum Pathol** 1996 Dec; 27(12):1348–54

Histopathological aspects of mucosal injury related to non–steroidal anti–inflammatory drugs. Taha AS. **Ital J Gastroenterol** 1996 Dec;28 Suppl 4:12–5

Nickel dermatitis and associated gastritis after coin ingestion. Mahdi G, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul; 23(1):74–6

Effects of nimesulide, a preferential cyclooxygenase–2 inhibitor, on carrageenan–induced pleurisy and stress–induced gastric lesions in rats. Nakatsugi S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):395–402

[Lung edema and erosive gastroduodenitis as a sequela of inappropriate use of an adrenaline dose aerosol after wasp sting] Balda BR, et al. **Hautarzt** 1997 Mar;48(3):195–8 (Eng. Abstr.) **(Ger)**

CLASSIFICATION

Classification and grading of gastritis. The updated Sydney System. International Workshop on the Histopathology of Gastritis, Houston 1994. Dixon MF, et al. **Am J Surg Pathol** 1996 Oct;20(10):1161–81 (118 ref.)

The classification of chronic gastritis: current status. Whitehead R. **J Clin Gastroenterol** 1995;21 Suppl 1:S131–4 (21 ref.)

The morphology of gastritis. Owen DA. **Yale J Biol Med** 1996 Jan–Feb;69(1):51–60 (34 ref.)

COMPLICATIONS

Aminocaproic acid used to control upper gastrointestinal bleeding in radiation gastritis. Grover N, et al. **Dig Dis Sci** 1997 May;42(5):982–4

Helicobacter pylori and gastric cancer. Reed PI. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:49–55

The prevalence of Helicobacter pylori infection and types of gastritis in diabetic patients. The Kraków Study. Mallecki M, et al. **Exp Clin Endocrinol Diabetes** 1996; 104(5):365–9

Relation between gastric cancer and previous peptic ulcer disease. Molloy RM, et al. **Gut** 1997 Feb;40(2):247–52

Acute diffuse phlegmonous esophagogastritis: report of a survived case. Hsu CY, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1347–52

Nonulcer dyspepsia: association with chronic Helicobacter pylori infection–related gastritis? Ching CK, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S140–5 (79 ref.)

Primary biliary cirrhosis and gastric carcinoid: a rare association? Mörk H, et al. **J Clin Gastroenterol** 1997 Jun; 24(4):270–3

Helicobacter pylori gastritis in a child with sickle cell anemia and recurrent abdominal pain. Kennedy L, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):163–4

Minimal chronic inactive gastritis: indicator of pre–existing helicobacter pylori gastritis? Oberhuber G, et al. **Pathol Res Pract** 1996 Oct;192(10):1016–21

Chronic abdominal pain and Helicobacter pylori. Adams RM. **Pediatr Infect Dis J** 1997 May;16(5):534–5

Gastritis classified in accordance with the Sydney system in patients with primary Sjögren's syndrome. Collin P, et al. **Scand J Gastroenterol** 1997 Feb;32(2):108–11

Severity of Helicobacter pylori gastritis predicts duodenal ulcer recurrence. Miehlke S, et al. **Scand J Gastroenterol** 1996 Sep;31(9):856–62

[Helicobacter pylori and MALT gastric lymphomas] Belaiche J. **Rev Med Liege** 1997 May;52(5):352–4 (12 ref.) **(Fre)**

[Association of chronic urticaria with Helicobacter pylori–induced antrum gastritis] Bohmeyer J, et al. **Hautarzt** 1996 Feb;47(2):106–8 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori associated gastrointestinal mucosal lesions: is there an increased risk during therapy with nonsteroidal antirheumatic agents?] Pöllmann G, et al. **Z Rheumatol** 1997 Mar–Apr;56(2):71–5 (Eng. Abstr.) **(Ger)**

[Duodenogastric reflux and Helicobacter pylori infection in chronic gastritis—evaluation of risk factor significance and risk factor interactions] Kopański Z, et al. **Folia Med Cracov** 1995;36(1–4):21–32 (Eng. Abstr.) **(Pol)**

[Helicobacter pylori infections—relative risk factor for stomach neoplasm] Muszyński J, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):223–6 **(Pol)**

[Chronic gastritis and ulcer disease in young men] Kula Z, et al. **Przegl Lek** 1996;53(10):722–5 (Eng. Abstr.) **(Pol)**

[Changes in the gastric mucosa in endocrine–cell cancer] Derizhanova IS, et al. **Arkh Patol** 1996 Jul–Aug;58(4):32–5 (Eng. Abstr.) **(Rus)**

[Incidence of Helicobacter infection in adolescents with and without gastroduodenal diseases] Parkhomenko LK, et al. **Klin Med (Mosk)** 1996;74(4):50–1 **(Rus)**

DIAGNOSIS

Comparative study of artificial neural networks in the discrimination between benign from malignant gastric ceils. Karakitsos P, et al. **Anal Quant Cytol Histol** 1997 Apr; 19(2):145–52

Management strategies for Helicobacter pylori–seropositive patients with dyspepsia: clinical and economic consequences [see comments] Ofman JJ, et al. **Ann Intern Med** 1997 Feb 15;126(4):280–91 (69 ref.). Comment in: Ann Intern Med 1997 Feb 15;126(4):315–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):244.

Helicobacter pylori: when to test, when to treat [editorial; comment] Rabeneck L, et al. **Ann Intern Med** 1997 Feb 15;126(4):315–6. Comment on: Ann Intern Med 1997 Feb 15;126(4):280–91.

Significance of the 14C–urea breath test in the determination of the location infected by Helicobacter pylori in the alimentary canal. Kopański Z, et al. **Eur J Med Res** 1997 Mar 24;2(3):136–8

Helicobacter pylori gastritis masquerading as gastric lymphoma. Nagral S, et al. **Indian J Gastroenterol** 1995 Oct;14(4):151–2

Endoscopic diagnosis of gastritis in relation to Helicobacter pylori infection and subjective symptoms. Sakaki N. **J Clin Gastroenterol** 1995;21 Suppl 1:S135–9

Is the polymerase chain reaction or cure of Helicobacter pylori infection of help in the differential diagnosis of early gastric mucosa–associated lymphatic tissue lymphoma? Rudolph B, et al. **J Clin Oncol** 1997 Mar;15(3):1104–9

Carbon–14–urea breath test: a cautionary note [letter] Warwick T. **J Nucl Med** 1996 Nov;37(11):1916

Assessment of the usefulness of endoscopic signs in Helicobacter pylori associated gastritis. Yela MC, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):3–12 **(Eng, Spa)**

[Reconsideration of the endoscopic diagnosis of gastritis (editorial)] Yu Z. **Chung Hua Nei Ko Tsa Chih** 1996 Jan; 35(1):5–6 **(Chi)**

[The diagnosis of gastritis] Labenz J, et al. **Dtsch Med Wochenschr** 1997 Jul 11;122(28–29):897–900 (17 ref.) (Eng. Abstr.) **(Ger)**

[Detection of Helicobacter pylori in dermatoses. Clinical incidental finding or pathogenetic association?] Tebbe B, et al. **Hautarzt** 1996 Aug;47(8):587–90 (29 ref.) (Eng. Abstr.) **(Ger)**

[Diagnosis and therapy of Helicobacter pylori infection. Guidelines of the German Society of Digestive and Metabolic Diseases. Working Group of the German Society of Digestive and Metabolic Diseases] Caspary WF, et al. **Leber Magen Darm** 1996 Nov;26(6):301–4, 307–9 **(Ger)**

[Infections caused by Helicobacter pylori] Stock I, et al. **Med Monatsschr Pharm** 1997 Jan;20(1):2–8 (10 ref.) **(Ger)**

[The value of symptomatic yellowing of cytoplasm in leukocytes obtained from stomach contents in diagnosis of biliary gastritis] Kląba T. **Pol Merkuriusz Lek** 1996 Dec; 1(6):398–400 (Eng. Abstr.) **(Pol)**

[The methods and clinico–diagnostic importance of a study of the periodic secretory activity of the gastroduodenal area] Fisher AA, et al. **Ter Arkh** 1993;65(2):8–11 (Eng. Abstr.) **(Rus)**

[Variants in the course of chronic alcoholic gastritis] Kochegurov VN, et al. **Ter Arkh** 1996;68(2):18–21 (Eng. Abstr.) **(Rus)**

[Chronic gastritis. Old concepts or hypotheses that are confirmed today (editorial)] Ramirez–Ramos A. **Acta Gastroenterol Latinoam** 1996;26(1):53–6 **(Spa)**

DIET THERAPY

[A study of lipid peroxidation in patients with chronic gastritis during administration of a food additive monosodium glutamate] Shirina LI, et al. **Vopr Pitan** 1996; (4):34–6 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

An increasing dose of omeprazole combined with amoxycillin cures Helicobacter pylori infection more effectively. Miehlke S, et al. **Aliment Pharmacol Ther** 1997 Apr; 11(2):323–9

Cure of Helicobacter pylori infection in the elderly: effects of eradication on gastritis and serological markers. Pilotto A, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1021–7

Effective 2–wk therapy for Helicobacter pylori disease in children. Dohil R, et al. **Am J Gastroenterol** 1997 Feb; 92(2):244–7

Management strategies for Helicobacter pylori–seropositive patients with dyspepsia: clinical and economic consequences [see comments] Ofman JJ, et al. **Ann Intern Med** 1997 Feb 15;126(4):280–91 (69 ref.). Comment in: Ann Intern Med 1997 Feb 15;126(4):315–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):244.

Helicobacter pylori: when to test, when to treat [editorial; comment] Rabeneck L, et al. **Ann Intern Med** 1997 Feb 15;126(4):315–6. Comment on: Ann Intern Med 1997 Feb 15;126(4):280–91.

Clarithromycin–induced fever in a patient with Helicobacter pylori gastritis [letter] Kadayifçi A, et al. **Ann Pharmacother** 1997 Jun;31(6):788

One week treatment for Helicobacter pylori infection. Walsh D, et al. **Arch Dis Child** 1997 Apr;76(4):352–5

Which proton pump inhibitor should we use? Williams CN. **Can J Gastroenterol** 1997 Jan–Feb;11(1):29

Urticaria during triple therapy for Helicobacter pylori infection: clinical implications. Delpre G, et al. **Dig Dis Sci** 1997 Apr;42(4):728–30

Reversion by histamine H2–receptor antagonists of plasma membrane alterations in ethanol–induced gastritis. Hernández–Muñoz R, et al. **Dig Dis Sci** 1996 Nov; 41(11):2156–65

Gastritis and Helicobacter pylori: forty years of antibiotic therapy. Lieber CS. **Digestion** 1997;58(3):203–10 (62 ref.)

Update on Helicobacter pylori research. Eradication. Graham DY, et al. **Eur J Gastroenterol Hepatol** 1997 Jun; 9(6):626–8

Healing of chronic antral gastritis: effect of sucralfate and colloidal bismuth subcitrate. Kumar M, et al. **Indian J Gastroenterol** 1996 Jul;15(3):90–3

Helicobacter pylori eradication—comparison of three drug regimens and symptomatic assessment in duodenitis and antral gastritis. Tan WC, et al. **Int J Clin Pract** 1997 Jun; 51(4):214–6

Managing acid peptic disease in the Helicobacter pylori era. Marshall BJ. **J Clin Gastroenterol** 1995;21 Suppl 1:S155–9 (14 ref.)

Insulin–like growth factor–I in Helicobacter pylori gastritis and response to eradication using bismuth based triple therapy. Taha AS, et al. **J Clin Pathol** 1996 Aug;49(8):676–8

Therapeutic effect of egualen sodium (KT1–32), a new antiulcer agent, on chronic gastritis induced by sodium taurocholate in rats. Mochizuki S, et al. **J Gastroenterol** 1996 Dec;31(6):785–92

Varioliform gastritis and duodenitis associated with protein–losing gastroenteropathy, treated with omeprazole. Murata I, et al. **J Gastroenterol** 1996 Feb;31(1):109–13

Effect of lipoxygenase inhibitors and leukotriene antagonists on acute and chronic gastric haemorrhagic mucosal lesions in ulcer models in the rat. Gyömber E, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):922–7

Effect of cisapride on functional dyspepsia in patients with and without histological gastritis: a double–blind placebo–controlled trial. Yeoh KG, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):13–8

Cure of Helicobacter pylori infection and duration of remission of low–grade gastric mucosa–associated lymphoid tissue lymphoma [see comments] Neubauer A, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1350–5. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1328–30.

Upper gastro–intestinal disease in Scotland: a survey of practice amongst Scottish gastroenterologists. Kubba AK, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):302–6

Regression of MALT lymphoma and treatment for Helicobacter pylori [letter; comment] Walt RP. **Lancet** 1996 Oct 12;348(9033):1041–2. Comment on: Lancet 1996 Jul 27;348(9022):268–9.

Bismuth concentration in blood and urine of children treated with ventrisol (polfa) preliminary study. Iwańczak F, et al. **Rocz Akad Med Bialymst** 1995;40(3):685–91

[Teprenone in the treatment of chronic superficial gastritis,

a multicentre study] Liu X, et al.
Chung Hua Nei Ko Tsa Chih 1996 Jan;35(1):12–4 (Eng. Abstr.) **(Chi)**

[Anti-Helicobacter pylori therapy. Who should be treated, how, how long?] Lux G. **Fortschr Med** 1996 Aug 20; 114(22–23):273–5 **(Ger)**

[Is gastric acid secretion inhibition necessary for successful eradication of Helicobacter pylori?] Müller P, et al.
Fortschr Med 1996 Aug 20;114(22–23):275–6 **(Ger)**

[Good results with Helicobacter pylori eradication for treatment of non-ulcer dyspepsia (letter)] Bock H, et al.
Leber Magen Darm 1996 Sep;26(5):268 **(Ger)**

[Pseudo-esophagitis in antacid abuse] Bokemeyer B, et al.
Leber Magen Darm 1996 Nov;26(6):320, 323–4 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori eradication: finally clarity (editorial)] Labenz J. **Leber Magen Darm** 1996 Nov;26(6):282–3 **(Ger)**

[Current developments in Helicobacter pylori therapy] Labenz J. **Leber Magen Darm** 1996 Jul;26(4):223–6 (0 ref.) **(Ger)**

[Long-term inhibition of gastric acid secretion. Evaluation and healing of Helicobacter pylori infection? (editorial)] Labenz J, et al. **Leber Magen Darm** 1996 Sep;26(5):241–2 **(Ger)**

[Helicobacter pylori eradication therapy with bismuth citrate/amoxycillin combination therapy] Stanescu A, et al. **Leber Magen Darm** 1996 Jan;26(1):32–6 (Eng. Abstr.) **(Ger)**

[Meta-analysis should be regarded with extreme caution (letter; comment)] Miehlke S, et al. **Z Gastroenterol** 1996 Aug;34(8):XVIII–XX; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**

[Meta-analysis raises more questions, than it answers (letter; comment)] Petersen KU. **Z Gastroenterol** 1996 Aug; 34(8):XVII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**

[Meta-analyses are hardly suitable for conclusively proving medical controversies (letter; comment)] Stolte M.
Z Gastroenterol 1996 Aug;34(8):XVII–XVIII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**

[Helicobacter pylori: pretherapeutic resistance status in Germany (Ruhr area)] Tillenburg B, et al.
Z Gastroenterol 1997 Mar;35(3):165–9 (Eng. Abstr.) **(Ger)**

[Effect of FUT-187, oral serine protease inhibitor, on inflammation in the gastric remnant] Shiozaki H, et al.
Gan To Kagaku Ryoho 1996 Dec;23(14):1971–9 (Eng. Abstr.) **(Jpn)**

[Effect of a novel antiulcer drug, lafutidine, on experimental chronic gastritis in rats] Onodera S, et al.
Nippon Yakurigaku Zasshi 1997 Jan;109(1):31–40 (Eng. Abstr.) **(Jpn)**

[Early results of treating Helicobacter pylori infections in patients with gastric ulcer and gastritis] Jarczyk G, et al.
Pol Merkuriusz Lek 1996 Sep;1(3):174–8 (Eng. Abstr.) **(Pol)**

[The efficacy of metabolic therapy in chronic gastritis with secretory deficiency in flight personnel] Lobenko AA, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):175–9 (Eng. Abstr.) **(Rus)**

[Triple-therapy treatment during 1 month versus 2 weeks in gastroduodenal disease due to Helicobacter pylori in children] Cilleruelo Pascual ML, et al. **An Esp Pediatr** 1996 May;44(5):456–60 (Eng. Abstr.) **(Spa)**

[Infection by Helicobacter pylori and gastroduodenal disease: who should be treated (letter; comment)] Muñoz J, et al.
Med Clin (Barc) 1997 Jan 11;108(1):34. Comment on: Med Clin (Barc) 1995 Nov 4;105(15):576–9. **(Spa)**

ECONOMICS

Cost of acid peptic disorders in a managed-care organization. Segal R, et al. **Clin Ther** 1996 Mar–Apr;18(2):319–33; discussion 302

ENZYMOLOGY

Expression of the gastric H/K-ATPase alpha-subunit in the thymus may explain the dominant role of the beta-subunit in the pathogenesis of autoimmune gastritis. Alderuccio F, et al. **Autoimmunity** 1997;25(3):167–75

Superoxide dismutase activity in Helicobacter pylori-positive antral gastritis in children. Broide E, et al.
J Pediatr Gastroenterol Nutr 1996 Dec;23(5):609–13

[The ultrastructural, histomorphological and histoenzymological changes in the gastric mucosa in different forms of chronic gastroduodenitis] Rodonezhskaia EV, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):56–60 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

The frequency of unsuspected minor illness or injury in intoxicated patients. Biros MH. **Acad Emerg Med** 1996 Sep; 3(9):853–8

Comparison of two enzyme-linked immunosorbent assay tests for diagnosis of Helicobacter pylori infection in China. Groves FD, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):551–2

The 13C urea breath test to assess Helicobacter pylori infection in school children. Dore SP, et al.
Natl Med J India 1997 Mar–Apr;10(2):57–60

A clinico-epidemiological study on gastritis in gastric carcinoma and in non-cancerous gastric pathology in Poland. Jedrychowski W, et al. **Rev Environ Health** 1997 Apr–Jun;12(2):117–24

Rate of Helicobacter pylori acquisition among Finnish adults: a fifteen year follow-up. Sipponen P, et al.
Scand J Gastroenterol 1996 Mar;31(3):229–32

Differing degree and distribution of gastritis in Helicobacter pylori-associated diseases. Meining A, et al.
Virchows Arch 1997 Jul;431(1):11–5

[Effect of age and sex on the occurrence of gastritis changes in gastric mucosa] Muszyński J, et al.
Pol Arch Med Wewn 1996 Jun;95(6):542–8 (Eng. Abstr.) **(Pol)**

[Changes in gastric mucosa and Helicobacter pylori infection in young health volunteers] Muszyński J, et al.
Pol Merkuriusz Lek 1996 Sep;1(3):169–73 (Eng. Abstr.) **(Pol)**

[Reactive gastritis in patients with diabetics with dyspeptic symptoms] Małecki M, et al. **Przegl Lek** 1996;53(7):540–3 (Eng. Abstr.) **(Pol)**

ETIOLOGY

A possible involvement of Fas–Fas ligand signaling in the pathogenesis of murine autoimmune gastritis. Nishio A, et al. **Gastroenterology** 1996 Oct;111(4):959–67

Gastritis, Helicobacter pylori, and proton pump inhibitors [editorial] [see comments] Sachs G. **Gastroenterology** 1997 Mar;112(3):1033–6. Comment in: Gastroenterology 1997 Mar;112(3):707–17.

Portal hypertensive gastropathy. Bernstein DE, et al.
Gastrointest Endosc Clin N Am 1996 Oct;6(4):697–708 (58 ref.)

Role of vacuolating cytotoxin in gastritis due to Helicobacter pylori in gnotobiotic piglets. Eaton KA, et al.
Infect Immun 1997 Aug;65(8):3462–4

Neurogenic inflammation in the gastrointestinal tract of the rat. Sann H, et al. **Neurosci Lett** 1996 Nov 29;219(3):147–50

Gastric adenocarcinoma and low-grade B-cell lymphoma of mucosa-associated lymphoid tissue. Hardman WJ 3rd, et al. **South Med J** 1997 Apr;90(4):426–30

[Lymphocytic gastritis associated with gastric MALT lymphoma (letter)] Heitzmann A, et al.
Gastroenterol Clin Biol 1997;21(5):433–4 **(Fre)**

[Ulcerous disease and gastritis at the time of Helicobacter pylori] **Therapie** 1996 May–Jun;51(3):309–18 (0 ref.) **(Fre)**

[Pseudohyperaldosteronism secondary to licorice poisoning associated with hemorrhagic gastritis] Cataldo F, et al.
Pediatr Med Chir 1997 May–Jun;19(3):219–21 (10 ref.) (Eng. Abstr.) **(Ita)**

[Helicobacter pylori infection--from gastritis to stomach cancer] Asaka M. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1540–5 (12 ref.) **(Jpn)**

[Chronic gastritis in children: evaluation after eleven years] Michałowicz-Wojczyńska E, et al. **Pediatr Pol** 1996 Sep; 71(9):781–7 (Eng. Abstr.) **(Pol)**

[Exocrine pancreatic function and gastric mucosa and duodenal mucosa in patients with chronic kidney failure] Sosnowski S, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):182–4 (Eng. Abstr.) **(Pol)**

[Biliary gastritis after partial gastrectomy by the Maki method] Klęba T. **Wiad Lek** 1994 Nov–Dec; 47(21–24):831–5 (Eng. Abstr.) **(Pol)**

[The etiopathogenetic and therapeutic correlations in chronic lymphocytic gastritis (comments apropos a case with a unique evolution) (corrected and republished in Chirurgia (Bucur) 1996 Sep–Oct;45(5):245–51)] Mateş IN, et al.
Chirurgia (Bucur) 1996 May–Jun;45(3):139–45 (Eng. Abstr.) **(Rum)**

[The etiopathogenetic and therapeutic correlations in chronic gastritis (comments apropos a case with a unique evolution) (corrected and republished article originally printed in Chirurgia (Bucur) 1996 May–Jun;45(3):139–45)] Mateş IN, et al. **Chirurgia (Bucur)** 1996 Sep–Oct;45(5):245–51 (17 ref.) (Eng. Abstr.) **(Rum)**

[Reflux gastritis due to Helicobacter pylori as the cause of unsatisfactory results of cholecystectomy] Gnatiuk NG, et al. **Klin Khir** 1997;(1):16–7 (Eng. Abstr.) **(Rus)**

[The etiology and pathogenesis of chronic gastritis in flight personnel] Vasil'ev VA. **Med Tr Prom Ekol** 1997;(3):36–7 **(Rus)**

[Phlegmonous gastritis in a patient with chronic gastric ulcer (letter)] Merino MT, et al. **Med Clin (Barc)** 1997 Sep 6; 109(7):278–9 **(Spa)**

[Chronic atrophic gastritis, hypergastinemia and gastric carcinoid tumor] Castellote J, et al.
Rev Esp Enferm Dig 1997 Jun;89(6):485–7 (Eng. Abstr.) **(Spa)**

GENETICS

Cytokine gene expression in the gastric mucosa: its role in chronic gastritis. Ishihara S, et al. **J Gastroenterol** 1996 Aug;31(4):485–90

HISTORY

Barry Marshall and the resurrection of Johannes Fibiger. Weisse AB. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):105–12, 116

IMMUNOLOGY

Immunopathology of Helicobacter pylori gastritis. Kirchner T, et al. **Digestion** 1997;58 Suppl 1:14–6 (5 ref.)

Different cytokine profile and antigen-specificity repertoire in Helicobacter pylori-specific T cell clones from the antrum of chronic gastritis patients with or without peptic ulcer. D'Elios MM, et al. **Eur J Immunol** 1997 Jul; 27(7):1751–5

Neonatal injection of native proton pump antigens induces autoimmune gastritis in mice. Claeys D, et al.
Gastroenterology 1997 Oct;113(4):1136–45

Local immunoglobulin G antibodies in the stomach may contribute to immunity against Helicobacter infection in mice. Ferrero RL, et al. **Gastroenterology** 1997 Jul; 113(1):185–94

Cytokines and Helicobacter pylori--a growth area [comment] Playford R. **Gut** 1996 Dec;39(96):881–2. Comment on: Gut 1996 Dec;39(96):787–94.

Helicobacter pylori infection enhances mucosal interleukin-1 beta, interleukin-6, and the soluble receptor of interleukin-2. Basso D, et al. **Int J Clin Lab Res** 1996; 26(3):207–10

Serum CagA antibodies in asymptomatic subjects and patients with peptic ulcer: lack of correlation of IgG antibody in patients with peptic ulcer or asymptomatic Helicobacter pylori gastritis. Graham DY, et al. **J Clin Pathol** 1996 Oct; 49(10):829–32

A study of accessory cells in the acquired lymphoid tissue of helicobacter gastritis. Sarsfield P, et al. **J Pathol** 1996 Sep;180(1):18–25

Heat-shock-proteins-antibodies in patients with Helicobacter pylori associated chronic gastritis. Leri O, et al. **Riv Eur Sci Med Farmacol** 1996 Mar–Apr;18(2):45–7

Characterization of lymphocytic infiltrates in Helicobacter pylori-associated gastritis. Hatz RA, et al.
Scand J Gastroenterol 1996 Mar;31(3):222–8

Expression of mRNA for interferon-gamma, interleukin-10, and interleukin-12 (p40) in normal gastric mucosa and in mucosa infected with Helicobacter pylori. Karttunen RA, et al. **Scand J Gastroenterol** 1997 Jan;32(1):22–7

Expression of cytokine mRNA in gastric mucosa with Helicobacter pylori infection [see comments] Yamaoka Y, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1153–9. Comment in: Scand J Gastroenterol 1997 Feb;32(2):191–2.

[Autoimmune gastritis in its various stages] Eidt S, et al.
Verh Dtsch Ges Pathol 1996;80:196–8 (Eng. Abstr.) **(Ger)**

[Apoptosis in chronic gastritis: correlation of glandular apoptosis with antigastric autoantibodies] Steininger H, et al. **Verh Dtsch Ges Pathol** 1996;80:185–90 (Eng. Abstr.) **(Ger)**

[Immunologic reactions in infections caused by Helicobacter pylori] Chmiela M, et al. **Postepy Hig Med Dosw** 1997; 51(2):115–38 (138 ref.) (Eng. Abstr.) **(Pol)**

METABOLISM

Local gastric and serum concentrations of rebamipide following oral administration to patients with chronic gastritis. Naito Y, et al. **Arzneimittelforschung** 1996 Jul; 46(7):698–700

Pattern of adhesion molecule expression on vascular endothelium in Helicobacter pylori-associated antral gastritis. Hatz RA, et al. **Gastroenterology** 1997 Jun; 112(6):1908–19

Analysis of mononuclear cell infiltrate and cytokine production in murine autoimmune gastritis. Martinelli TM, et al. **Gastroenterology** 1996 Jun;110(6):1791–802

Gastric mucosal secretion of interleukin-10: relations to histopathology, Helicobacter pylori status, and tumour necrosis factor-alpha secretion. Bodger K, et al. **Gut** 1997 Jun;40(6):739–44

Sulphydryl blocker induced gastric damage is ameliorated by scavenging of free radicals. Karmeli F, et al. **Gut** 1996 Jun;38(6):826–31

Il-2 receptor expression on gastric mucosa T lymphocytes is enhanced in duodenal ulcer patients compared with non-ulcer dyspeptic patients. Ihan A, et al.
Hepatogastroenterology 1996 Nov–Dec;43(12):1665–70

Stimulated gastrinemia, parietal cell mass and stimulated acid secretion in autonomous chronic gastritis: Helicobacter pylori influence. Testino G, et al.
Hepatogastroenterology 1995 Sep–Oct;42(5):650–4

Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275–81

Association between Helicobacter pylori infection and serum pepsinogen concentrations in gastroduodenal disease. Matsumoto K, et al. **J Clin Pathol** 1996 Dec;49(12):1005–8

Immunohistochemical evaluation of keratin 20 expression in intestinal metaplasia types I to III. Schwerer MJ, et al. **J Clin Pathol** 1996 Oct;49(10):791–4

Insulin-like growth factor-I in Helicobacter pylori gastritis and response to eradication using bismuth based triple therapy. Taha AS, et al. **J Clin Pathol** 1996 Aug;49(8):676–8

Topoisomerase II alpha expression in normal, inflammatory, and neoplastic conditions of the gastric and colonic mucosa. Fogt F, et al. **Mod Pathol** 1997 Apr;10(4):296–302

MICROBIOLOGY

Helicobacter pylori: its role in ulcer disease and gastric cancer and how to detect the infection. Go MF.

Acta Gastroenterol Latinoam 1996;26(1):45–9

Symptomatology of Helicobacter pylori infection in children. Blecker U, et al. **Acta Paediatr** 1996 Oct;85(10):1156–8

Helicobacter pylori infection, a paradigm for chronic mucosal inflammation: pathogenesis and implications for eradication and prevention. Cover TL, et al. **Adv Intern Med** 1996;41:85–117 (214 ref.)

Helicobacter pylori and gastroduodenal diseases: a minor revolution for radiologists [comment] [see comments] Gelfand DW, et al. **AJR Am J Roentgenol** 1997 Jun; 168(6):1421–2. Comment on: AJR Am J Roentgenol 1997 Jun;168(6):1403. Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1415–20.

Helicobacter pylori and the risk and management of associated diseases: gastritis, ulcer disease, atrophic gastritis and gastric cancer. Kuipers EJ. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:71–88 (193 ref.)

Relevance of the ferret model of Helicobacter-induced gastritis to evaluation of antibacterial therapies. Alder JD, et al. **Am J Gastroenterol** 1996 Nov;91(11):2347–54

Etiological involvement of Helicobacter pylori in "reflux" gastritis after gastrectomy. Nagahata Y, et al. **Am J Gastroenterol** 1996 Oct;91(10):2130–4

Relation of lactoferrin levels in gastric mucosa with Helicobacter pylori infection and with the degree of gastric inflammation. Nakao K, et al. **Am J Gastroenterol** 1997 Jun;92(6):1005–11

Helicobacter gastroduodenitis: a serious infectious disease [editorial] Axon A, et al. **BMJ** 1997 May 17; 314(7092):1430–1

Disappearance of Helicobacter without antibiotics in 12 patients with gastritis. Freeman HJ. **Can J Gastroenterol** 1997 Mar;11(2):167–72 (32 ref.)

High prevalence of serum immunoglobulin G antibody to Helicobacter pylori and raised serum gastrin and pepsinogen levels in enlarged fold gastritis. Yasunaga Y, et al. **Can J Gastroenterol** 1997 Jul–Aug;11(5):433–6

Detection of serum antibodies to CagA and VacA and of serum neutralizing activity for vacuolating cytotoxin in patients with Helicobacter pylori–induced gastritis. Donati M, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):478–82

Gastrospirillum hominis gastritis in a child with celiac sprue. Drewitz DJ, et al. **Dig Dis Sci** 1997 May;42(5):1083–6 (23 ref.)

High seropositivity of anti–CagA antibody in Helicobacter pylori–infected patients irrelevant to peptic ulcers and normal mucosa in Japan. Maeda S, et al. **Dig Dis Sci** 1997 Sep;42(9):1841–7

Helicobacter pylori, gastritis and non–ulcer dyspepsia in Ethiopian patients. Tsega E, et al. **Ethiop Med J** 1996 Apr; 34(2):65–71

Helicobacter pylori infection and upper gastrointestinal patholgy in a British immigrant Indian community [see comments] Seery JP, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):191–4. Comment in: Eur J Gastroenterol Hepatol 1997 Jun;9(6):647–8.

The prevalence of Helicobacter pylori infection and types of gastritis in diabetic patients. The Kraków Study. Mallecki M, et al. **Exp Clin Endocrinol Diabetes** 1996; 104(5):365–9

Gastritis in urease–immunized mice after Helicobacter felis challenge may be due to residual bacteria. Ermak TH, et al. **Gastroenterology** 1997 Oct;113(4):1118–28

Local immunoglobulin G antibodies in the stomach may contribute to immunity against Helicobacter infection in mice. Ferrero RL, et al. **Gastroenterology** 1997 Jul; 113(1):185–94

Host factors in Helicobacter infection. Kapadia CR. **Gastroenterology** 1997 Jul;113(1):361–2

Serum 13C–bicarbonate assay for the diagnosis of gastric Helicobacter pylori infection and response to treatment. Kim MJ, et al. **Gastroenterology** 1997 Jul;113(1):31–7

Mast cell involvement in gastritis with or without Helicobacter pylori infection. Nakajima S, et al. **Gastroenterology** 1997 Sep;113(3):746–54

Role of the host in Helicobacter disease [letter; comment] Nedrud JG, et al. **Gastroenterology** 1997 Feb;112(2):670. Comment on: Gastroenterology 1996 Jan;110(1):155–66. Comment on: Gastroenterology 1996 Jul;111(1):271.

Are there three types of Helicobacter pylori gastritis? Rubin CE. **Gastroenterology** 1997 Jun;112(6):2108–10

Epithelium related deposition of activated complement in Helicobacter pylori associated gastritis. Berstad AE, et al. **Gut** 1997 Feb;40(2):196–203

Treatment of Helicobacter pylori infection favourably affects gastric mucosal superoxide dismutases. Götz JM, et al. **Gut** 1997 May;40(5):591–6

Cytotoxin production and neutrophil activation by strains of Helicobacter pylori isolated from patients with peptic ulceration and chronic gastritis [letter; comment] Rautelin H, et al. **Gut** 1997 Mar;40(3):431. Comment on: Gut 1996 Jun;38(6):841–5.

Relation between Helicobacter pylori infection and gastrointestinal symptoms and syndromes. Rosenstock S, et al. **Gut** 1997 Aug;41(2):169–76

Atrophic gastric changes in both Helicobacter felis and Helicobacter pylori infected mice are host dependent and separate from antral gastritis. Sakagami T, et al. **Gut** 1996 Nov;39(5):639–48

Hyperhomocysteinaemia, Helicobacter pylori, and coronary heart disease. Sung JJ, et al. **Heart** 1996 Oct;76(4):305–7

Expression of cytokeratins typical for ductal and squamous differentiation in the human stomach: an immunohistochemical study of normal foveolar epithelium, Helicobacter pylori gastritis and intestinal metaplasia. Schwerer MJ, et al. **Histopathology** 1996 Aug;29(2):131–7

Gastric lymphoma and Helicobacter pylori. Isaacson PG, et al. **Important Adv Oncol** 1996;:111–21 (58 ref.)

Healing of chronic antral gastritis: effect of sucralfate and colloidal bismuth subcitrate. Kumar M, et al. **Indian J Gastroenterol** 1996 Jul;15(3):90–3

Endoscopic, histologic and microbiologic evaluation of upper abdominal pain with special reference to Helicobacter pylori infection [see comments] Kumar M, et al. **Indian Pediatr** 1996 Nov;33(11):905–9. Comment in: Indian Pediatr 1996 Nov;33(11):899–903.

Role of adherence in interleukin–8 induction in Helicobacter pylori–associated gastritis. Rieder G, et al. **Infect Immun** 1997 Sep;65(9):3622–30

Helicobacter pylori gastritis and non–ulcer dyspepsia in childhood. Efficacy of one–week triple antimicrobial therapy in eradicating the organism. Cucchiara S, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):430–5

Serum pepsinogen I levels and acid secretion in Helicobacter pylori associated enlarged fold gastritis. Yasunaga Y, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):457–61

Acid secretion, serum pepsinogen A and Helicobacter pylori [letter] Testino G, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):81–2

Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275–81

Role of Helicobacter pylori in chronic gastritis: a prospective study. Kudo M, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S174–8

Lymphocyte proliferative response to Helicobacter pylori CagA protein in patients with duodenal ulcer or gastritis [letter] Tricerri A, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):81–2

Serum anti–Helicobacter pylori antibodies and gastritis. Yamamoto I, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S164–8

Equally high prevalences of infection with cagA–positive Helicobacter pylori in Chinese patients with peptic ulcer disease and those with chronic gastritis–associated dyspepsia. Pan ZJ, et al. **J Clin Microbiol** 1997 Jun; 35(6):1344–7

Heterogeneity in susceptibility to metronidazole among Helicobacter pylori isolates from patients with gastritis or peptic ulcer disease. Weel JF, et al. **J Clin Microbiol** 1996 Sep;34(9):2158–62

Serum CagA antibodies in asymptomatic subjects and patients with peptic ulcer [letter] Fraggetta F, et al. **J Clin Pathol** 1997 Jul;50(7):620

Subtypes of intestinal metaplasia and their relationship to Helicobacter pylori. Evrensel T, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):221–4

Establishment of gastric Helicobacter pylori infection in Mongolian gerbils. Hirayama F, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:24–8

Detection of Helicobacter pylori DNA in gastric juice by the polymerase chain reaction: comparison with findings in bacterial culture and the detection of tissue IgA and serum IgG antibodies against Helicobacter pylori. Matsukura N, et al. **J Gastroenterol** 1995 Dec;30(6):689–95

Atopic dermatitis successfully treated by eradication of Helicobacter pylori. Murakami K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:77–82

Prevalence of Helicobacter pylori infection–associated histologic chronic gastritis in the Spanish population. Pajares JM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:1–5

Helicobacter pylori gastritis--epidemiology. Sipponen P. **J Gastroenterol** 1997 Apr;32(2):273–7 (32 ref.)

Review: eradication of Helicobacter pylori. Problems and recommendations. Huang JQ, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):590–8 (78 ref.)

Helicobacter pylori--can the mechanisms of pathogenesis guide us towards novel strategies for treatment and prevention? Falk P. **J Intern Med** 1996 Dec;240(6):319–32 (93 ref.)

Induction of ulceration and severe gastritis in Mongolian gerbil by Helicobacter pylori infection. Matsumoto S, et al. **J Med Microbiol** 1997 May;46(5):391–7

Superoxide dismutase activity in Helicobacter pylori–positive antral gastritis in children. Broide E, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):609–13

Pervasive occult gastrointestinal bleeding in an Alaska native population with prevalent iron deficiency. Role of Helicobacter pylori gastritis [see comments] Yip R, et al. **JAMA** 1997 Apr 9;277(14):1135–9. Comment in: JAMA 1997 Apr 9;277(14):1166–7.

Cytotoxin genes of Helicobacter pylori in chronic gastritis, gastroduodenal ulcer and gastric cancer: an age and gender matched case–control study. Matsukura N, et al. **Jpn J Cancer Res** 1997 Jun;88(6):532–6

The only good Helicobacter pylori is a dead Helicobacter pylori [letter; comment] Oderda G, et al. **Lancet** 1997 Jul 5;350(9070):71; discussion 72. Comment on: Lancet 1997 Apr 5;349(9057):1020–2.

Regression of MALT lymphoma and treatment for Helicobacter pylori [letter; comment] Walt RP. **Lancet** 1996 Oct 12;348(9033):1041–2. Comment on: Lancet 1996 Jul 27;348(9022):268–9.

Frequency of Helicobacter pylori infection in uremic hemodialyzed patients with antral gastritis [letter] Krawczyk W, et al. **Nephron** 1996;74(3):621–2

Clinical value of Helicobacter pylori identification by histochemical methods in patients with chronic gastritis. Raica M, et al. **Rom J Morphol Embryol** 1996 Jan–Jun; 42(1–2):117–21

Cure of Helicobacter pylori infection improves gastric acid secretion in patients with corpus gastritis. Gutierrez O, et al. **Scand J Gastroenterol** 1997 Jul;32(7):664–8

Reversal of long–standing iron deficiency anaemia after eradication of Helicobacter pylori infection. Marignani M, et al. **Scand J Gastroenterol** 1997 Jun;32(6):617–22

Gastric juice levels of lactoferrin and Helicobacter pylori infection. Nakao K, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):530–4

Gastric inflammation and neutrophil–activating and cytotoxin–producing Helicobacter pylori strains. Rautelin H, et al. **Scand J Gastroenterol** 1996 Jul;31(7):639–42

A comparison of Helicobacter pylori and H. heilmannii gastritis. A matched control study involving 404 patients. Stolte M, et al. **Scand J Gastroenterol** 1997 Jan;32(1):28–33

Helicobacter pylori inhibits the secretory activity of gastric parietal cells in patients with chronic gastritis. An ultrastructural study. Taguchi Y, et al. **Scand J Gastroenterol** 1997 Jul;32(7):656–63

Immature mucopeptic cell expansion in Helicobacter pylori–positive patients: a marker of progression towards gastric preneoplastic changes? [letter] Testino G, et al. **Scand J Gastroenterol** 1997 Jun;32(6):623–4

Long–term course and consequences of Helicobacter pylori gastritis. Results of a 32–year follow–up study. Valle J, et al. **Scand J Gastroenterol** 1996 Jun;31(6):546–50

Immune and inflammatory responses to Helicobacter pylori infection. Crabtree JE. **Scand J Gastroenterol Suppl** 1996; 215:3–10 (78 ref.)

Pathological consequences of Helicobacter pylori infection. Dixon M. **Scand J Gastroenterol Suppl** 1996;215:21

Effects of permanent eradication or transient clearance of Helicobacter pylori on histology of gastric mucosa using omeprazole with or without antibiotics. Solcia E, et al. **Scand J Gastroenterol Suppl** 1996;215:105–10

The immunobiology of Helicobacter pylori gastritis. Genta RM. **Semin Gastrointest Dis** 1997 Jan;8(1):2–11 (74 ref.)

Transmission of Helicobacter pylori. Mendall MA. **Semin Gastrointest Dis** 1997 Jul;8(3):113–23 (101 ref.)

Clinical association of Helicobacter pylori gastritis in children [letter] Eltumi M, et al. **South Med J** 1997 Apr;90(4):461–2

Pathogenesis of gastric Helicobacter pylori. Moran AP. **Trends Microbiol** 1997 Jul;5(7):262–3

Helicobacter pylori infection: pediatric aspects. Sinatra FR. **West J Med** 1997 May;166(5):339–40

Helicobacter pylori and congestive gastropathy. Bahnacy A, et al. **Z Gastroenterol** 1997 Feb;35(2):109–12

[Infection with Helicobacter pylori, the end in sight?] Loffeld RJ. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2440–1 (20 ref.) **(Dut)**

[Ulcer disease and gastritis in time of Helicobacter pylori. Société Nationale Française de Gastro–entérologie et. Société Française de Chirurgie Digestive. Société Française d'Endoscopie Digestive. Société Française de Microbiologie. Société de Pathologie Infectieuse de Langue Française. Groupe d'Etude Français des Helicobacter.] **Gastroenterol Clin Biol** 1996;20(11):1009–12 (0 ref.) **(Fre)**

[Chronic gastritis with presence of Helicobacter heilmannii (letter)] Prophette B, et al. **Presse Med** 1996 Jul 6–13; 25(24):1124 **(Fre)**

[Epidemiology and pathogenesis of Helicobacter pylori infection] Hackelsberger A, et al. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1439–43 (Eng. Abstr.) **(Ger)**

[Relevance of antigastric autoantibodies in Helicobacter pylori gastritis] Faller G, et al. **Verh Dtsch Ges Pathol** 1996; 80:181–4 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori, chronic gastritis and precancerous gastric manifestations] Testino G, et al. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):145–51 (Eng. Abstr.) **(Ita)**

[Helicobacter pylori and malignant stomach neoplasms] Asaka M. **Nippon Naika Gakkai Zasshi** 1996 May 10; 85(5):767–71 (18 ref.) **(Jpn)**

[Time course of disappearance of Helicobacter pylori after topical therapy and new triple therapy] Wang XM, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):79 **(Jpn)**

[Helicobacter pylori--comparison of selected diagnostic methods] Kopański Z, et al. **Folia Med Cracov** 1995; 36(1–4):33–45 (Eng. Abstr.) **(Pol)**

[Urease test, microbiologic tests, histologic and serologic tests for the evaluation of Helicobacter pylori infections in persons with peptic ulcer and gastritis] Jarczyk G, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):219–22 (Eng. Abstr.) **(Pol)**

[Helicobacter pylori: role in the onset of chronic gastritis and ulcer] Tsimmerman IS, et al. **Klin Med (Mosk)** 1997; 75(4):8–13 (60 ref.) **(Rus)**

PATHOLOGY

Helicobacter pylori and uremic gastritis: a histopathologic study and a correlation with endoscopic and bacteriologic findings. Moustafa FE, et al. **Am J Nephrol** 1997; 17(2):165–71

Herpesvirus 6 variant A infection after heart transplantation with giant cell transformation in bile ductular and gastroduodenal epithelium. Randhawa PS, et al. **Am J Surg Pathol** 1997 Jul;21(7):847–53

Pathological case of the month. Helicobacter pylori gastritis. Shetty AK, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):855–6

Validity of a novel biopsy urease test (HUT) and a simplified 13C-urea breath test for diagnosis of Helicobacter pylori infection and estimation of the severity of gastritis. Labenz J, et al. **Digestion** 1996 Nov–Dec;57(6):391–7

Implications of Helicobacter pylori serological titer for the histological severity of antral gastritis. Sheu BS, et al. **Endoscopy** 1997 Jan;29(1):27–30

Diagnostic criteria in lymphocytic gastritis [letter; comment] Lynch DA, et al. **Gastroenterology** 1997 Apr;112(4):1426–7 . Comment on: Gastroenterology 1996 Jul;111(1):73–7.

Analysis of mononuclear cell infiltrate and cytokine production in murine autoimmune gastritis. Martinelli TM, et al. **Gastroenterology** 1996 Jun;110(6):1791–802

Mast cell involvement in gastritis with or without Helicobacter pylori infection. Nakajima S, et al. **Gastroenterology** 1997 Sep;113(3):746–54

Focally enhanced gastritis: a frequent type of gastritis in patients with Crohn's disease [comment] Oberhuber G, et al. **Gastroenterology** 1997 Mar;112(3):698–706. Comment on: Gastroenterology 1997 Mar;112(3):1031–3.

Are there three types of Helicobacter pylori gastritis? Rubin CE. **Gastroenterology** 1997 Jun;112(6):2108–10

Gastroduodenal Crohn's disease: the focus is on focality [editorial] [see comments] Yardley JH, et al. **Gastroenterology** 1997 Mar;112(3):1031–3. Comment in: Gastroenterology 1997 Mar;112(3):698–706.

Endoscopic features of gastroduodenal cryptococcosis in AIDS. Chalasani N, et al. **Gastrointest Endosc** 1997 Mar; 45(3):315–7

Gastric mucosal biopsy via a nasogastric tube: a nonendoscopic method for diagnosing fundic and antral mucosal gastritis and Helicobacter pylori infection in man. Cryer B, et al. **Gastrointest Endosc** 1996 Sep;44(3):317–23

Acute phlegmonous gastritis. Schultz MJ, et al. **Gastrointest Endosc** 1996 Jul;44(1):80–3

Portal hypertensive gastropathy. Bernstein DE, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):697–708 (58 ref.)

Cellular proliferation and ploidy of the gastric mucosa: the role of Helicobacter pylori. Abdel-Wahab M, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):880–5

Apoptosis in chronic gastritis: evaluation of the gastric mucosa by DNA flow cytometry and the expression of the high molecular weight cytokeratin. Attallah AM, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1305–12

Histological features do not define NSAID-induced gastritis. El-Zimaity HM, et al. **Hum Pathol** 1996 Dec; 27(12):1348–54

Long-term semi-quantitative follow-up of Helicobacter pylori associated gastritis. Tham TC, et al. **Ir J Med Sci** 1997 Jul–Sep;166(3):132–4

Reinfection or recrudescence after apparently successful eradication of Helicobacter pylori infection: can the type of gastritis solve the problem? Bruno M, et al. **Ital J Gastroenterol** 1996 May;28(4):216–9

The significance of B-cell clonality in gastric lymphoid infiltrates. Calvert RJ, et al. **J Pathol** 1996 Sep;180(1):26–32

Minimal chronic inactive gastritis: indicator of pre-existing helicobacter pylori gastritis? Oberhuber G, et al. **Pathol Res Pract** 1996 Oct;192(10):1016–21

Gastritis and duodenitis in children with food polyallergy. Czaja-Bulsa G, et al. **Rocz Akad Med Bialymst** 1995; 40(3):520–5

Intestinal metaplasia and dysplastic modifications in H. pylori gastritis. Tăban S, et al. **Rom J Morphol Embryol** 1996 Jan–Jun;42(1–2):109–15

Induction of acute gastritis and epithelial apoptosis by Helicobacter pylori lipopolysaccharide. Piotrowski J, et al. **Scand J Gastroenterol** 1997 Mar;32(3):203–11

Helicobacter pylori inhibits the secretory activity of gastric parietal cells in patients with chronic gastritis. An ultrastructural study. Taguchi Y, et al. **Scand J Gastroenterol** 1997 Jul;32(7):656–63

Immature mucopeptic cell expansion in Helicobacter pylori-positive patients: a marker of progression towards gastric preneoplastic changes? [letter] Testino G, et al. **Scand J Gastroenterol** 1997 Jun;32(6):623–4

Intragastric pH during treatment with omeprazole: role of Helicobacter pylori and H. pylori-associated gastritis. Verdú EF, et al. **Scand J Gastroenterol** 1996 Dec; 31(12):1151–6

Histological spectrum of lymphoid follicles and aggregates in Helicobacter pylori gastritis. Amarapurkar AD, et al. **Trop Gastroenterol** 1997 Jan–Mar;18(1):22–3

Murine autoimmune gastritis and the gastric H,K-ATPase: insights from a new model and autoantibody detection system. Claeys D, et al. **Verh Dtsch Ges Pathol** 1996; 80:191–5

The morphology of gastritis. Owen DA. **Yale J Biol Med** 1996 Jan–Feb;69(1):51–60 (34 ref.)

Pathobiology of the gastric mucosa. West AB, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):75–9 (18 ref.)

[Autoimmune gastritis in its various stages] Eidt S, et al. **Verh Dtsch Ges Pathol** 1996;80:196–8 (Eng. Abstr.) **(Ger)**

[Lymphocytic gastritis: autoimmune disease or variant of Helicobacter gastritis?] Kushima R, et al. **Verh Dtsch Ges Pathol** 1996;80:208–11 (Eng. Abstr.) **(Ger)**

[Apoptosis in chronic gastritis: correlation of glandular apoptosis with antigastric autoantibodies] Steininger H, et al. **Verh Dtsch Ges Pathol** 1996;80:185–90 (Eng. Abstr.) **(Ger)**

[Crohn disease gastritis: histomorphology and immunohistochemical characterization of inflammatory cell infiltrates] Wrba F, et al. **Verh Dtsch Ges Pathol** 1996;80:216 **(Ger)**

[Histopathological variations in the vitelline duct in heterotopic gastric mucosa with special reference to inflammatory changes. (Study of resected specimens from 1956–1995)] Cserni G. **Orv Hetil** 1997 Aug 3; 138(31):1957–63 (Eng. Abstr.) **(Hun)**

[Morphologic changes of gastric mucosa in Helicobacter pylori infection in patients with peptic ulcer disease and chronic gastritis] Raczyńska A, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):165–8 (Eng. Abstr.) **(Pol)**

[A new international morphologic classification of gastritis (modification of the Sydney system)] Aruin LI. **Arkh Patol** 1997 May–Jun;59(3):3–7 (Eng. Abstr.) **(Rus)**

[Ultrastructural, autoradiographic and morphometric analysis of gastric mucosa in chronic gastritis] Omigov VV, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):103–8 **(Rus)**

[The ultrastructural, histomorphological and histoenzymological changes in the gastric mucosa in different forms of chronic gastroduodenitis] Rodonezhskaia EV, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):56–60 (Eng. Abstr.) **(Rus)**

[Breath test in the diagnosis of Helicobacter pylori infection: concordance with histological methods and correlation with anatomopathological lesions of the gastric mucosa] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Apr; 88(4):259–64 (Eng. Abstr.) **(Spa)**

[Semiquantitative histopathologic analysis of chronic gastritis: extension and grading score] Duarte I, et al. **Rev Med Chil** 1996 Oct;124(10):1200–6 (Eng. Abstr.) **(Spa)**

[Frequency and histopathologic features of chronic gastritis in 300 patients without endoscopic lesions] Schultz M, et al. **Rev Med Chil** 1996 May;124(5):545–52 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Pathophysiology of Helicobacter pylori-induced gastritis and peptic ulcer disease. Peek RM Jr, et al. **Am J Med** 1997 Feb;102(2):200–7 (93 ref.)

[Helicobacter pylori infection and gastric secretion (editorial)] Zaremba-Woroniecka A, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):157–60 **(Pol)**

[Leukocyte-endothelium interaction: inflammation and gastric damage] Panés J, et al. **Gastroenterol Hepatol** 1997 May;20 Suppl 2:22–32 (129 ref.) **(Spa)**

PREVENTION & CONTROL

Fish oil dietary supplementation for prevention of indomethacin induced gastric and small bowel toxicity in healthy volunteers. Kremer JM, et al. **J Rheumatol** 1996 Oct;23(10):1770–3

Novel intranasal immunization techniques for antibody induction and protection of mice against gastric Helicobacter felis infection. Weltzin R, et al. **Vaccine** 1997 Mar;15(4):370–6

PSYCHOLOGY

Can scores on alexithymia distinguish patients with peptic ulcer and erosive gastritis? Fukunishi S, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):995–1004

[The assessment of the mental health of children with psychosomatic diseases] Khamaganova TG, et al. **Gig Sanit** 1997 Mar–Apr;(2):23–6 (Eng. Abstr.) **(Rus)**

RADIONUCLIDE IMAGING

[The post-cholecystectomy syndrome. Evaluation of symptomatology using Tc-99m-HIDA sequential hepatic scintigraphy (cholescintigraphy)] Maturanza M, et al. **Minerva Chir** 1997 Mar;52(3):243–5 (Eng. Abstr.) **(Ita)**

REHABILITATION

[The effect of nitrogen silicide thermal mineral water on stomach function in gastroduodenal pathology] Beliaev AD, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr;(2):16–20 (Eng. Abstr.) **(Rus)**

[Sinusoidal modulated currents in the therapy of chronic gastroduodenitis in children] Bukanovich OV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr; (2):22–6 (Eng. Abstr.) **(Rus)**

[The combined action of sinusoidal modulated currents and ultrasound in the treatment of chronic gastroduodenitis in children] Khan MA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):12–5 (Eng. Abstr.) **(Rus)**

[The treatment of patients with peptic ulcer and primary chronic gastroduodenitis at Zheleznovodsk health resort] Nogaller AM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr; (2):18–22 **(Rus)**

SURGERY

Helicobacter pylori gastritis associated with a gastric inflammatory fibroid tumour and sarcoidosis. Buciuto R, et al. **Eur J Surg** 1996 May;162(5):421–4

THERAPY

Helicobacter pylori—can the mechanisms of pathogenesis guide us towards novel strategies for treatment and prevention? Falk P. **J Intern Med** 1996 Dec;240(6):319–32 (93 ref.)

[The morphometric and immunohistochemical indices of the gastric and duodenal mucosa in the dynamic treatment of erosive gastroduodenitis in those who worked in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station in the follow-up period] Dement'eva OIu, et al. **Ter Arkh** 1997;69(2):18–22 (Eng. Abstr.) **(Rus)**

VETERINARY

Helicobacter pylori and stomach ulcers [letter; comment] Singleton P. **Vet Rec** 1996 Aug 24;139(8):196. Comment on: Vet Rec 1996 Aug 17;139(7):172.

VIROLOGY

Cytomegalovirus gastritis in an immunocompetent patient. Stam F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):322–4

GASTRITIS, ATROPHIC

COMPLICATIONS

Chronic atrophic gastritis and Helicobacter pylori infection in primary biliary cirrhosis: a cross-sectional study with matching [see comments] Floreani A, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):13–7. Comment in: Ital J Gastroenterol Hepatol 1997 Feb;29(1):5–10.

Risk of gastric carcinoma in patients with mucosal dysplasia associated with atrophic gastritis: a follow up study. Kokkola A, et al. **J Clin Pathol** 1996 Dec;49(12):979–84

Signet ring cell carcinoma in hyperplastic polyp [letter; comment] Carneiro F, et al. **Scand J Gastroenterol** 1996 Jan;31(1):95–6. Comment on: Scand J Gastroenterol 1995 Jun;30(6):604–8.

Gastric as well as duodenal biopsies may be useful in the investigation of iron deficiency anaemia. Dickey W, et al. **Scand J Gastroenterol** 1997 May;32(5):469–72

[A case of multiple gastric carcinoid tumors associated with type A gastritis, diabetes insipidus and Hashimoto's disease] Fuse K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr; 94(4):261–7 **(Jpn)**

DIAGNOSIS

Chronic atrophic fundic gastritis diagnosed by a modified Congo red test. Toth E, et al. **Endoscopy** 1995 Nov; 27(9):654–8

The usefulness of gastric mass screening using serum pepsinogen levels compared with photofluorography. Yoshihara M, et al. **Hiroshima J Med Sci** 1997 Jun; 46(2):81–6

Value of serology (ELISA) for the diagnosis of Helicobacter pylori infection: evaluation in patients attending endoscopy and in those with fundic atrophic gastritis. Tucci A, et al. **Ital J Gastroenterol** 1996 Sep;28(7):371–6

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 9–1997. A 39-year-old woman with pernicious anemia and a gastric mass [clinical conference] **N Engl J Med** 1997 Mar 20;336(12):861–7

ENZYMOLOGY

Ornithine decarboxylase activity is a marker of premalignancy in longstanding Helicobacter pylori infection. Patchett SE, et al. **Gut** 1996 Dec;39(96):807–10

EPIDEMIOLOGY

Seroepidemiology of gastritis in Japanese and Dutch male employees with and without ulcer disease. Schlemper RJ, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):33–9

Profile of Helicobacter pylori cytotoxin derived from two areas of Japan with different prevalence of atrophic gastritis. Ito S, et al. **Gut** 1996 Dec;39(96):800–6

The mature stomach. Still pumping out acid? [editorial; comment] Feldman M. **JAMA** 1997 Aug 27;278(8):681–2 . Comment on: JAMA 1997 Aug 27;278(8):659–62.

Gastric acidity in older adults [see comments] Hurwitz A, et al. **JAMA** 1997 Aug 27;278(8):659–62. Comment in: JAMA 1997 Aug 27;278(8):681–2.

[Controlled clinical studies for topographic analysis of atrophic gastritis and stomach cancer] Popiela T, et al. **Przegl Lek** 1996;53(6):472–7 (Eng. Abstr.) **(Pol)**

ETIOLOGY

Update on Helicobacter pylori research. Malignancies. Gasbarrini G, et al. **Eur J Gastroenterol Hepatol** 1997 Jun; 9(6):621–3

The endotoxin of Helicobacter pylori is a modulator of host-dependent gastritis. Sakagami T, et al. **Infect Immun** 1997 Aug;65(8):3310–6

GASTRITIS, ATROPHIC

IMMUNOLOGY

Antigenic mimicry between Helicobacter pylori and gastric mucosa in the pathogenesis of body atrophic gastritis. Negrini R, et al. **Gastroenterology** 1996 Sep;111(3):655–65

[Carcinoid tumors of the stomach in atrophic autoimmune gastritis: classification, differential diagnosis and prognosis] Rappel S, et al. **Verh Dtsch Ges Pathol** 1996;80:199–207 (Eng. Abstr.) **(Ger)**

METABOLISM

Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275–81

Reduction of gap junction protein connexin 32 in rat atrophic gastric mucosa as an early event in carcinogenesis. Nagahara A, et al. **J Gastroenterol** 1996 Aug;31(4):491–7

MICROBIOLOGY

Helicobacter pylori and the risk and management of associated diseases: gastritis, ulcer disease, atrophic gastritis and gastric cancer. Kuipers EJ.
Aliment Pharmacol Ther 1997 Apr;11 Suppl 1:71–88 (193 ref.)

Helicobacter pylori and atrophic gastritis. Kuipers EJ, et al. **Biomed Pharmacother** 1997;51(4):150–5 (67 ref.)

Helicobacter pylori infection and gastric cancer. A nested case–control study in a rural area of Japan. Watanabe Y, et al. **Dig Dis Sci** 1997 Jul;42(7):1383–7

Frequency of Helicobacter pylori in gastroscopic biopsy of Ugandan Africans. Wabinga HR. **East Afr Med J** 1996 Oct; 73(10):691–3

Antibodies to CagA protein are associated with gastric atrophy in Helicobacter pylori infection. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):645–9

Helicobacter pylori infection and chronic gastric acid hyposecretion. El-Omar EM, et al. **Gastroenterology** 1997 Jul;113(1):15–24

Effect of Helicobacter pylori eradication on gastritis in relation to cagA: a prospective 1-year follow-up study. van der Hulst RW, et al. **Gastroenterology** 1997 Jul; 113(1):25–30

Precancerous gastric lesions and Helicobacter pylori. Masci E, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):854–8

Helicobacter pylori infection accelerates human gastric mucosal cell proliferation. Murakami K, et al.
J Gastroenterol 1997 Apr;32(2):184–8

Cytotoxin and urease activities of Helicobacter pylori isolates from Japanese patients with atrophic gastritis or duodenal ulcer. Murakita H, et al. **J Gastroenterol Hepatol** 1996 Sep; 11(9):819–24

Effect of eradication of Helicobacter pylori in patients with fundic atrophic gastritis [letter] Tucci A, et al.
N Engl J Med 1997 Mar 27;336(13):957–8

Role of Helicobacter pylori in the pathogenesis of atrophic gastritis. Kuipers EJ, et al. **Scand J Gastroenterol Suppl** 1997;223:28–34 (104 ref.)

[Preliminary investigation of Helicobacter pylori infection in Linqu County of Shandong province] Jiang J, et al.
Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao 1996 Apr; 18(2):129–32 (Eng. Abstr.) **(Chi)**

[Helicobacter pylori, achlorhydria and gastric atrophy: what kind of "ménage à trois"?] Bretagne JF, et al.
Gastroenterol Clin Biol 1997;21(2):117–23 (108 ref.) **(Fre)**

PARASITOLOGY

Identification of Giardia lamblia by gastric brush cytology [letter] Muñoz E, et al. **Acta Cytol** 1996 Nov–Dec; 40(6):1331–2

PATHOLOGY

Pattern of pS2 protein expression in premalignant and malignant lesions of gastric mucosa. Machado JC, et al. **Eur J Cancer Prev** 1996 Jun;5(3):169–79

Basal chromogranin A and gastrin concentrations in circulation correlate to endocrine cell proliferation in type-A gastritis. Borch K, et al. **Scand J Gastroenterol** 1997 Mar;32(3):198–202

[Study on mitochondrial ultrastructure, trace elements and correlative factors of gastric mucosa in patients with spleen deficiency syndrome] Yin GY, et al.
Chung Kuo Chung Hsi I Chieh Ho Tsa Chih 1995 Dec; 15(12):719–23 (Eng. Abstr.) **(Chi)**

[Carcinoid tumors of the stomach in atrophic autoimmune gastritis: classification, differential diagnosis and prognosis] Rappel S, et al. **Verh Dtsch Ges Pathol** 1996;80:199–207 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Gastric emptying and first-pass metabolism of ethanol in elderly subjects with and without atrophic gastritis. Pedrosa MC, et al. **Scand J Gastroenterol** 1996 Jul; 31(7):671–7

GASTRITIS, HYPERTROPHIC

COMPLICATIONS

Menetrier's disease: report of a transient case associated with chylous ascites. Soetikno RM, et al. **Am J Gastroenterol** 1997 Aug;92(8):1364–7

[Ménétrier disease associated with a gastric adenocarcinoma. Apropos of 2 cases] Jouini M, et al.
Ann Gastroenterol Hepatol (Paris) 1996 Nov–Dec; 31(6):341–5 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Chronic hypertrophic gastropathy in a child resembling adult Menetrier's disease. Faure C, et al.
J Pediatr Gastroenterol Nutr 1996 Nov;23(4):419–21

[Protein-losing gastroenteropathy (Ménétrier's disease) in childhood: a report of 3 cases] Ricci S, et al.
Pediatr Med Chir 1996 May–Jun;18(3):269–73 (17 ref.) (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Resolution of protein-losing hypertrophic gastropathy by eradication of Helicobacter pylori. Yamada M, et al.
Eur J Pediatr 1997 Mar;156(3):182–5

[Menetrier disease associated with ulcerative colitis. Response to the treatment with octreotide. Review of the diagnostic criteria and etiopathogenesis] Ojeda E, et al.
Gastroenterol Hepatol 1997 Apr;20(4):175–9 (20 ref.) (Eng. Abstr.) **(Spa)**

ETIOLOGY

Protein-losing gastropathy associated with cytomegalovirus: a rare and late complication of allogeneic bone marrow transplantation. Pinho Vaz C, et al.
Bone Marrow Transplant 1996 May;17(5):887–9

Trophic effects in the acid-producing part of the rat stomach after pyloric stenosis. Chen D, et al.
Scand J Gastroenterol 1995 Dec;30(12):1147–52

METABOLISM

Increased production of interleukin 1 beta and hepatocyte growth factor may contribute to foveolar hyperplasia in enlarged fold gastritis [see comments] Yasunaga Y, et al. **Gut** 1996 Dec;39(96):787–94. Comment in: Gut 1996 Dec;39(96):881–2.

PATHOLOGY

Ménétrier's disease: a new variant with duodenal involvement. Wu CS, et al. **Am J Gastroenterol** 1997 Jun; 92(6):1041–3

Hyperplastic foveolar gastropathy and hyperplastic foveolar gastritis in baboons. Rubio CA, et al. **In Vivo** 1996 Sep–Oct; 10(5):507–10

Trophic effects in the acid-producing part of the rat stomach after pyloric stenosis. Chen D, et al.
Scand J Gastroenterol 1995 Dec;30(12):1147–52

RADIOGRAPHY

Radiological finding of Menetrier's disease: a case report. Tsai CH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jan;59(1):47–9

ULTRASONOGRAPHY

Ménétrier's disease evaluated serially by abdominal ultrasonography. Takaya J, et al. **Pediatr Radiol** 1997 Feb; 27(2):178–80

[Menetrier's disease suspected by ultrasonography] López Cano A, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):292–4 (Eng. Abstr.) **(Spa)**

VETERINARY

Gastric mucosal phospholipids in dogs with familial stomatocytosis-hypertrophic gastritis. Renooij W, et al.
Eur J Clin Invest 1996 Dec;26(12):1156–9

Hyperplastic foveolar gastropathy and hyperplastic foveolar gastritis in baboons. Rubio CA, et al. **In Vivo** 1996 Sep–Oct; 10(5):507–10

VIROLOGY

Diagnosis of cytomegalovirus infection in pediatric Menetrier's disease by in situ hybridization. Hochman JA, et al. **J Clin Microbiol** 1996 Oct;34(10):2588–9

Role of cytomegalovirus in Ménétrier disease in children [letter; comment] Numazaki K, et al. **J Pediatr** 1997 Apr; 130(4):681–2. Comment on: J Pediatr 1996 Feb;128(2):213–9.

Cytomegalovirus-associated Ménétrier's disease in adults. Demonstration by polymerase chain reaction (PCR). Drut RM, et al. **Medicina (B Aires)** 1995;55(6):659–64

GASTROCNEMIUS MUSCLE see **MUSCLE, SKELETAL**

GASTROCOELE see **GASTRULA**

GASTRODUODENAL ULCER see **PEPTIC ULCER**

GASTROENTERITIS

The management of infective gastroenteritis in adults. A consensus statement by an expert panel convened by the British Society for the Study of Infection. Farthing M, et al. **J Infect** 1996 Nov;33(3):143–52 (62 ref.)

Practice parameters: what are they and why should we use them? Nazarian LF. **Pediatr Rev** 1997 Jul;18(7):219–20

BLOOD

Plasma nitrate concentration in infective gastroenteritis and inflammatory bowel disease. Dykhuizen RS, et al. **Gut** 1996 Sep;39(3):393–5

[The dynamic levels of acute-phase proteins and of the lipopolysaccharide-bonding activity of the peripheral blood neutrophils in patients with acute intestinal infections] Malov VA, et al. **Ter Arkh** 1996;68(11):23–7 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Detection of rotavirus RNA in cerebrospinal fluid in a case of rotavirus gastroenteritis with febrile seizures. Pang XL, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):543–5

CHEMICALLY INDUCED

Gastric acid, acid-suppressing drugs, and bacterial gastroenteritis: how much of a risk? Garcia Rodriguez LA, et al. **Epidemiology** 1997 Sep;8(5):571–4

Effects of tepoxalin, a dual inhibitor of cyclooxygenase/5-lipoxygenase, on events associated with NSAID-induced gastrointestinal inflammation. Kirchner T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jun;56(6):417–23

COMPLICATIONS

Giant antral ulcer: a rare presentation of eosinophilic gastroenteritis--case report and review of the literature. Kristopaitis T, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1205–8 (21 ref.)

Prevalence of gastrointestinal symptoms after bacterial gastroenteritis. Study did not include a control group [letter; comment] Barber R, et al. **BMJ** 1997 Jun 28; 314(7098):1903. Comment on: BMJ 1997 Mar 15;314(7083):779–82.

Prevalence of gastrointestinal symptoms after bacterial gastroenteritis. Bowel symptoms vary over time [letter; comment] Gorard D. **BMJ** 1997 Jun 28;314(7098):1902; discussion 1903. Comment on: BMJ 1997 Mar 15;314(7083):779–82.

Prevalence of gastrointestinal symptoms after bacterial gastroenteritis. Patients with the irritable bowel syndrome may underreport historical symptoms [letter; comment] Maxwell P, et al. **BMJ** 1997 Jun 28;314(7098):1902–3. Comment on: BMJ 1997 Mar 15;314(7083):779–82.

Prevalence of gastrointestinal symptoms six months after bacterial gastroenteritis and risk factors for development of the irritable bowel syndrome: postal survey of patients [see comments] Neal KR, et al. **BMJ** 1997 Mar 15; 314(7083):779–82. Comment in: BMJ 1997 Jun 28;314(7098):1902; discussion 1903. Comment in: BMJ 1997 Jun 28;314(7098):1902–3. Comment in: BMJ 1997 Jun 28;314(7098):1903.

Perforated duodenal ulcer in a pediatric patient with eosinophilic gastroenteritis. Deslandres C, et al.
Can J Gastroenterol 1997 Apr;11(3):208–12 (28 ref.)

Fever without apparent source on clinical examination, lower respiratory infections in children, other infectious diseases, and acute gastroenteritis and diarrhea of infancy and early childhood. McCarthy PL, et al. **Curr Opin Pediatr** 1997 Feb;9(1):105–26 (155 ref.)

A further case of eosinophilic gastroenteritis with ascites [letter; comment] Lerza P. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):407. Comment on: Eur J Gastroenterol Hepatol 1995 Jul;7(7):675–8.

Eosinophilic gastroenteritis. Malaguarnera M, et al.
Eur J Gastroenterol Hepatol 1997 May;9(5):533–7

Verocytotoxin-producing Escherichia coli infection in hemolytic uremic syndrome in part of western Europe. van de Kar NC, et al. **Eur J Pediatr** 1996 Jul;155(7):592–5

Fatal hyponatraemic brain oedema due to common gastroenteritis with accidental water intoxication. Sjøblom E, et al. **Intensive Care Med** 1997 Mar;23(3):348–50

Eosinophilic gastroenteritis with ileus and ascites. Miyamoto T, et al. **Intern Med** 1996 Oct;35(10):779–82

An audit of the clinical features and use of antimicrobials in adult diarrhoea. Laing RB, et al. **J Infect** 1996 Jan; 32(1):17–21

Postinfective diarrhoea and bile acid malabsorption. Niaz SK, et al. **J R Coll Physicians Lond** 1997 Jan–Feb;31(1):53–6

Hemolytic-uremic syndrome associated with acute Campylobacter upsaliensis gastroenteritis [letter] Carter JE, et al. **Nephron** 1996;74(2):489

Central pontine myelinolysis in a previously healthy 4-year-old child with acute rotavirus gastroenteritis. Gregorio L, et al. **Pediatrics** 1997 May;99(5):738–43

Questions on the practice parameter--gastroenteritis [letter; comment] Hick JF. **Pediatrics** 1997 Jan;99(1):143; discussion 143–4. Comment on: Pediatrics 1996 Mar;97(3):424–35.

[MRSA enteritis following severe gastroenteritis of salmonellosis] Saito S, et al. **Kansenshogaku Zasshi** 1996 Sep;70(9):981–5 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Atypical presentation of Henoch-Schoenlein purpura in two children. Sharieff GQ, et al. **Am J Emerg Med** 1997 Jul; 15(4):375–7

Transient radiological and colonoscopic features of inflammatory bowel disease in a patient with severe

Salmonella gastroenteritis. Dagash M, et al. **Am J Gastroenterol** 1997 Feb;92(2):349–51 (6 ref.)

Gastroenteritis in children under 5 years of age in England and Wales. Crowley DS, et al. **Commun Dis Rep CDR Rev** 1997 May 30;7(6):R82–6

Problems in the diagnosis of foodborne infection in general practice. Palmer S, et al. **Epidemiol Infect** 1996 Dec; 117(3):479–84

Probable association between urinary tract infections (UTI) and common diseases of infancy and childhood: a hospital-based study of UTI in Durban, South Africa. Jeena PM, et al. **J Trop Pediatr** 1996 Apr;42(2):112–4

Questions on the practice parameter--gastroenteritis [letter; comment] Suara RO. **Pediatrics** 1997 Jan;99(1):143; discussion 143–4. Comment on: Pediatrics 1996 Mar;97(3):424–35.

Eosinophilic gastroenteritis: diagnostic laparoscopy. Vara-Thorbeck C, et al. **Surg Laparosc Endosc** 1997 Feb; 7(1):66–9

[A case from practice (369). 1. Acute gastroenteritis. 2. Oral candidiasis] Tietz A. **Schweiz Rundsch Med Prax** 1996 Dec 17;85(51–52):1663–5 **(Ger)**

[Eosinophilic gastroenteritis in food allergy] Pfaffenbach B, et al. **Z Gastroenterol** 1996 Aug;34(8):490–3 (Eng. Abstr.) **(Ger)**

[Eosinophilic gastroenteritis, apropos a new case] Martínez Albaladejo M, et al. **An Med Interna** 1997 Apr;14(4):187–9 (30 ref.) (Eng. Abstr.) **(Spa)**

DIET THERAPY

Biotherapeutic role of fermented milk. Gonzalez SN, et al. **Biotherapy** 1994;8(2):129–34

Elemental diet improves steroid-dependent eosinophilic gastroenteritis and reverses growth failure. Justinich C, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul;23(1):81–5

DRUG THERAPY

Review article: beta 3-adrenoceptor agonists--future anti-inflammatory drugs for the gastrointestinal tract? Anthony A. **Aliment Pharmacol Ther** 1996 Dec; 10(6):859–63 (45 ref.)

Empirical treatment of severe acute community-acquired gastroenteritis with ciprofloxacin. Dryden MS, et al. **Clin Infect Dis** 1996 Jun;22(6):1019–25

Subserosal eosinophilic gastroenteritis treated efficaciously with sodium cromoglycate. Pérez-Millán A, et al. **Dig Dis Sci** 1997 Feb;42(2):342–4

Clinical audit of ciprofloxacin use in adults admitted to hospital with gastroenteritis. Fox R, et al. **J Infect** 1996 Jul;33(1):39–42

A synopsis of the American Academy of Pediatrics' practice parameter on the management of acute gastroenteritis in young children. Nazarian LF. **Pediatr Rev** 1997 Jul; 18(7):221–3

Norfloxacin and Salmonella excretion in acute gastroenteritis--a 6-month follow-up study. Pitkäjärvi T, et al. **Scand J Infect Dis** 1996;28(2):177–80

[A 'suppository for vomiting prevention'] Poorter ME, et al. **Ned Tijdschr Geneeskd** 1997 Apr 5;141(14):665–6 (Eng. Abstr.) **(Dut)**

[High percentage of antibiotic resistance in Shigella infections in children in Curaçao] Wolfs TF, et al. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2510–3 (Eng. Abstr.) **(Dut)**

[Symptomatic therapy of severe diarrhea in eosinophilic gastroenteritis with the somatostatin analog octreotide (Sandostatin)] Rausch T, et al. **Schweiz Med Wochenschr Suppl** 1997;89:9S–13S (Eng. Abstr.) **(Ger)**

[Antibiotic treatment of acute gastroenteritis] Segura Porta F, et al. **Rev Clin Esp** 1997 Apr;197(4):241–4 (Eng. Abstr.) **(Spa)**

ECONOMICS

The cost of inpatient care for acute infectious intestinal disease in England from 1991 to 1994. Djuretic T, et al. **Commun Dis Rep CDR Rev** 1996 Apr 26;6(5):R78–80

Rotavirus gastroenteritis: impact on young children, their families and the health care system. Liddle JL, et al. **Med J Aust** 1997 Sep 15;167(6):304–7

EPIDEMIOLOGY

A case-control study of Salmonella gastrointestinal infection in Italian children. Borgnolo G, et al. **Acta Paediatr** 1996 Jul;85(7):804–8

Carbohydrate intolerance after acute gastroenteritis--a disappearing problem in Polish children. Szajewska H, et al. **Acta Paediatr** 1997 Apr;86(4):347–50

Prevalence and characteristics of severe rotavirus infections in Nicaraguan children. Espinoza F, et al. **Ann Trop Paediatr** 1997 Mar;17(1):25–32

Detection and analysis of a small round-structured virus strain in oysters implicated in an outbreak of acute gastroenteritis. Le Guyader F, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4268–72

Failure of cooking to prevent shellfish-associated viral gastroenteritis. McDonnell S, et al. **Arch Intern Med** 1997 Jan 13;157(1):111–6

The changing epidemiology of astrovirus-associated gastroenteritis: a review. Glass RI, et al. **Arch Virol Suppl** 1996;12:287–300 (72 ref.)

The epidemiology of human calicivirus/Sapporo/82/Japan. Nakata S, et al. **Arch Virol Suppl** 1996;12:263–70 (20 ref.)

Gastroenteritis in Australia: who, what, where, and how much? [editorial] Hellard M, et al. **Aust N Z J Med** 1997 Apr;27(2):147–9

'Must it have been something I ate?' [editorial] Veitch MG, et al. **Aust N Z J Public Health** 1997 Feb;21(1):7–9

Outbreak of Salmonella food poisoning at Junior World Rowing Championships. Anderson AC. **Br J Sports Med** 1996 Dec;30(4):347–8

Hospitalization rates of children with gastroenteritis in Ontario. To T, et al. **Can J Public Health** 1996 Jan–Feb; 87(1):62–5

An outbreak of viral gastroenteritis following a wedding reception. Hicks NJ, et al. **Commun Dis Rep CDR Rev** 1996 Sep 13;6(10):R136–9

Outbreaks of foodborne viral gastroenteritis in England and Wales: 1992 to 1994. Luthi TM, et al. **Commun Dis Rep CDR Rev** 1996 Sep 13;6(10):R131–6 (31 ref.)

An outbreak of viral gastroenteritis on a cruise ship. McEvoy M, et al. **Commun Dis Rep CDR Rev** 1996 Dec 6; 6(13):R188–92

Outbreak of small round structured virus gastroenteritis arose after kitchen assistant vomited. Patterson W, et al. **Commun Dis Rep CDR Rev** 1997 Jun 27;7(7):R101–3

Outbreak of campylobacter enteritis in a residential school associated with bird pecked bottle tops. Stuart J, et al. **Commun Dis Rep CDR Rev** 1997 Mar 7;7(3):R38–40

Salmonella gold-coast. **Commun Dis Rep CDR Wkly** 1996 Dec 20;6(51):443

Surveillance of infectious intestinal disease. **Commun Dis Rep CDR Wkly** 1996 Feb 9;6(6):45

Common gastrointestinal infections, England and Wales: laboratory reports, weeks 10–14/96. **Commun Dis Rep CDR Wkly** 1996 Apr 12;6(15):126–8

Surveillance of outbreaks of small round structured virus infection. **Commun Dis Rep CDR Wkly** 1996 Mar 8;6(10):83, 86

A milk-borne campylobacter outbreak following an educational farm visit. Evans MR, et al. **Epidemiol Infect** 1996 Dec;117(3):457–62

Problems in the diagnosis of foodborne infection in general practice. Palmer S, et al. **Epidemiol Infect** 1996 Dec; 117(3):479–84

A foodborne outbreak of gastroenteritis involving Listeria monocytogenes. Salamina G, et al. **Epidemiol Infect** 1996 Dec;117(3):429–36

Adenovirus gastroenteritis [letter] Baskin E, et al. **Indian Pediatr** 1995 Oct;32(10):1128–9

Hospital outbreak of Norwalk-like virus. Russo PL, et al. **Infect Control Hosp Epidemiol** 1997 Aug;18(8):576–9

Campylobacter jejuni gastroenteritis in Turkish children. Uysal G, et al. **Infection** 1997 May–Jun;25(3):159–62

Longitudinal study of molecular epidemiology of small round-structured viruses in a pediatric population. Levett PN, et al. **J Clin Microbiol** 1996 Jun;34(6):1497–501

Annual incidence, serotype distribution, and genetic diversity of human astrovirus isolates from hospitalized children in Melbourne, Australia. Palombo EA, et al. **J Clin Microbiol** 1996 Jul;34(7):1750–3

Viral gastroenteritis: small round structured viruses, caliciviruses and astroviruses. Part II. The epidemiological perspective. Caul EO. **J Clin Pathol** 1996 Dec; 49(12):959–64 (72 ref.)

Temporal distribution of rotavirus G-serotypes in the West Midlands region of the United Kingdom, 1983–1994. Beards G, et al. **J Diarrhoeal Dis Res** 1995 Dec;13(4):235–7

Oscillatory fluctuations in the incidence of rotavirus infections by serotypes 1, 2, 3, and 4. José MV, et al. **J Diarrhoeal Dis Res** 1996 Sep;14(3):194–200

Outbreak of severe gastroenteritis in adults and children associated with type G2 rotavirus. Study Group on Diarrhea of the Instituto Adolfo Lutz. Timenetsky MC, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):71–4

Epidemiology of Mexico virus, a small round-structured virus in Yorkshire, United Kingdom, between January 1992 and March 1995. Lewis DC, et al. **J Infect Dis** 1997 Apr; 175(4):951–4

Mixed genogroup SRSV infections among a party of canoeists exposed to contaminated recreational water. Gray JJ, et al. **J Med Virol** 1997 Aug;52(4):425–9

Capsid sequence diversity in small round structured viruses from recent UK outbreaks of gastroenteritis. Green SM, et al. **J Med Virol** 1997 May;52(1):14–9

Outbreaks of gastroenteritis in elderly nursing homes and retirement facilities associated with human caliciviruses. Jiang X, et al. **J Med Virol** 1996 Dec;50(4):335–41

Sequence analysis of SRSV in fecal specimens from an epidemic of infantile gastroenteritis, October to December 1995, Japan. Matsuno S, et al. **J Med Virol** 1997 Aug; 52(4):377–80

Longitudinal study of rotavirus infection in child-care centres. Ferson MJ, et al. **J Paediatr Child Health** 1997 Apr;33(2):157–60

Outbreak of viral gastroenteritis due to a contaminated well. International consequences. Beller M, et al. **JAMA** 1997 Aug 20;278(7):563–8

An outbreak of Norwalk-like virus infection in Tokyo and Saitama in late 1995. Akihara S, et al. **Kansenshogaku Zasshi** 1996 Aug;70(8):840–1

An outbreak of gastroenteritis and fever due to Listeria monocytogenes in milk [see comments] Dalton CB, et al. **N Engl J Med** 1997 Jan 9;336(2):100–5. Comment in: N Engl J Med 1997 Jan 9;336(2):130–2.

Bacterial gastroenteritis among hospitalized patients in a Danish County, 1991–93. Petersen AM, et al. **Scand J Gastroenterol** 1996 Sep;31(9):906–11

[Outbreak of non-bacterial gastroenteritis in a school] Gaulin C, et al. **Can J Public Health** 1996 Jul–Aug;87(4):264–7 (Eng. Abstr.) **(Fre)**

[Incidence of Salmonella infections in general practice. Changes in diagnostic behavior or an actual increase?] Beste S. **Fortschr Med** 1997 May 20;115(14):52 **(Ger)**

[Cryptosporidia associated gastroenteritis: epidemiologic study of children in Tyrol and Vorarlberg] Lederer W, et al. **Wien Klin Wochenschr** 1996;108(20):649–53 (Eng. Abstr.) **(Ger)**

[Cases of gastroenteritis associated to Vibrio cholerae no 01 in Oran, Salta] Rivas M, et al. **Rev Argent Microbiol** 1996 Oct–Dec;28(4):163–9 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Failure of cooking to prevent shellfish-associated viral gastroenteritis. McDonnell S, et al. **Arch Intern Med** 1997 Jan 13;157(1):111–6

First European case of gastroenteritis and bacteremia due to Vibrio hollisae. Gras-Rouzet S, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):864–6 (13 ref.)

Gastroenteritis caused by Listeria monocytogenes in a private day-care facility [letter] Heitmann M, et al. **Pediatr Infect Dis J** 1997 Aug;16(8):827–8

High incidence of infectious gastrointestinal complications observed in patients with acute myeloid leukemia receiving intensive chemotherapy for first induction of remission. Micozzi A, et al. **Support Care Cancer** 1996 Jul;4(4):294–7

[Severe acute gastroenteritis due to Aeromonas in a patient colectomized for Crohn's disease] de Sola Earle C, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):48–50 (18 ref.) (Eng. Abstr.) **(Spa)**

GENETICS

Markers of virulence among prospectively acquired putative enteropathogenic Escherichia coli serogroups. Cimolai N, et al. **Pediatr Pathol Lab Med** 1997 Mar–Apr;17(2):267–74

IMMUNOLOGY

C-reactive protein in viral and bacterial gastroenteritis in childhood. Borgnolo G, et al. **Acta Paediatr** 1996 Jun; 85(6):670–4

Autoimmune enteropathy in a pediatric patient: partial response to tacrolimus therapy. Steffen R, et al. **Clin Pediatr (Phila)** 1997 May;36(5):295–9

The evaluation of delayed-type hypersensitivity responsiveness and nutritional status as predictors of gastro-intestinal and acute respiratory infection: a prospective field study among traditional nomadic Kenyan children. Shell-Duncan B, et al. **J Trop Pediatr** 1997 Feb; 43(1):25–32

[Eosinophilic gastroenteritis caused by bee pollen sensitization] Puente S, et al. **Med Clin (Barc)** 1997 May 10;108(18):698–700 (Eng. Abstr.) **(Spa)**

METABOLISM

A prospective, open-label study of single-dose ciprofloxacin absorption after chemotherapy in patients with malignancy. Gattis WA, et al. **Pharmacotherapy** 1997 Jul–Aug; 17(4):836–40

[Structural-metabolic features of uremic gastroenteropathy] Riabov SI, et al. **Klin Med (Mosk)** 1996;74(5):43–7 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Severe nontyphoidal salmonellosis probably in relation with omeprazole treatment: report of 2 cases. Schapira M, et al. **Acta Gastroenterol Belg** 1996 Apr–Jun;59(2):168–9

C-reactive protein in viral and bacterial gastroenteritis in childhood. Borgnolo G, et al. **Acta Paediatr** 1996 Jun; 85(6):670–4

Enteric pathogens in severe forms of acute gastroenteritis in Ghanaian children. Hori H, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):672–6

Gastroenteritis causing critical limb ischaemia. Mamode N, et al. **Br J Clin Pract** 1996 Oct–Nov;50(7):410

A foodborne outbreak of gastroenteritis involving Listeria monocytogenes. Salamina G, et al. **Epidemiol Infect** 1996 Dec;117(3):429–36

Outbreaks of food poisoning in adults due to Escherichia coli O111 and campylobacter associated with coach trips to northern France. Wight JP, et al. **Epidemiol Infect** 1997 Aug;119(1):9–14

Conventional and molecular approaches to isolates of Salmonella hadar from sporadic and epidemic cases. Fantasia M, et al. **J Appl Microbiol** 1997 Apr;82(4):494–8

Enterotoxin and cytotoxin production by Salmonella enteritidis strains isolated from gastroenteritis outbreaks. Rumeu MT, et al. **J Appl Microbiol** 1997 Jan;82(1):19–31

Incidence of enteropathogenic bacteria in children with gastroenteritis in Greece and their susceptibility pattern. Kouppari G, et al. **J Chemother** 1995 Nov;7 Suppl 4:147–9

Subspecies typing of Vibrio parahaemolyticus by pulsed-field gel electrophoresis. Wong HC, et al. **J Clin Microbiol** 1996 Jun;34(6):1535-9

Enteroaggregative Escherichia coli and outbreaks of gastroenteritis in UK [letter] Smith HR, et al. **Lancet** 1997 Sep 13;350(9080):814-5

Characterization of a type IV bundle-forming pilus (SFP) from a gastroenteritis-associated strain of Aeromonas veronii biovar sobria. Kirov SM, et al. **Microb Pathog** 1996 Jul;21(1):23-34

An outbreak of gastroenteritis and fever due to Listeria monocytogenes in milk [see comments] Dalton CB, et al. **N Engl J Med** 1997 Jan 9;336(2):100-5. Comment in: N Engl J Med 1997 Jan 9;336(2):130-2.

Listeria gastroenteritis--old syndrome, new pathogen [editorial; comment] Schlech WF 3rd. **N Engl J Med** 1997 Jan 9;336(2):130-2. Comment on: N Engl J Med 1997 Jan 9;336(2):100-5.

Food poisoning, listeriosis, and febrile gastroenteritis. **Nutr Rev** 1997 Feb;55(2):57-60 (6 ref.)

Association of torovirus with acute and persistent diarrhea in children. Koopmans MP, et al. **Pediatr Infect Dis J** 1997 May;16(5):504-7

Markers of virulence among prospectively acquired putative enteropathogenic Escherichia coli serogroups. Cimolai N, et al. **Pediatr Pathol Lab Med** 1997 Mar-Apr;17(2):267-74

Incompleteness of statutory notification of bacterial gastro-intestinal infection. Barrett P, et al. **Public Health** 1997 May;111(3):183-5

Rapid identification by PCR of the genus Campylobacter and of five Campylobacter species enteropathogenic for man and animals. Linton D, et al. **Res Microbiol** 1996 Nov-Dec;147(9):707-18

Vibrio fluvialis: an underrecognized enteric pathogen in infants? Kolb EA, et al. **South Med J** 1997 May;90(5):544-5

Hemolysins and plasmid profiles of Vibrio parahaemolyticus. Vadivelu J, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):126-31

[Current status of gastrointestinal infection in Japan--with special reference to enterohaemorrhagic Escherichia coli infection] Kudoh Y. **Rinsho Byori** 1997 Mar;45(3):242-8 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Investigation of outbreaks of food-borne diseases] Kapperud G. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3329-34 (16 ref.) (Eng. Abstr.) **(Nor)**

[An outcome of water-borne gastroenteritis in Klaebu] Torske H, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20; 116(28):3360-5 (Eng. Abstr.) **(Nor)**

[Water-borne campylobacter infection--probably caused by pink-footed geese. Two outbreaks in Nord-Trndelag, Stjrtdal in 1994 and Verdal in 1995] Varslot M, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3366-9 (Eng. Abstr.) **(Nor)**

[Acute clostridium difficile gastroenteritis infection in children: report of three cases] Prokopowicz D, et al. **Pediatr Pol** 1996 Apr;71(4):373-6 (Eng. Abstr.) **(Pol)**

[Bacteremia during the course of Salmonella gastroenteritis] Prado Muñoz S, et al. **An Esp Pediatr** 1997 Feb;46(2):151-5 (Eng. Abstr.) **(Spa)**

[Epidemiology of gastroenteritis by Salmonella (1983-1994)] Dorronsoro I, et al. **Enferm Infecc Microbiol Clin** 1996 Dec;14(10):604-7 (Eng. Abstr.) **(Spa)**

[Cases of gastroenteritis associated to Vibrio cholerae no 01 in Oran, Salta] Rivas M, et al. **Rev Argent Microbiol** 1996 Oct-Dec;28(4):163-9 (Eng. Abstr.) **(Spa)**

MORTALITY

Preventing gastro-enteritis deaths: recommendations based on a 3 years study. Gulati N, et al. **J Commun Dis** 1995 Dec;27(4):256-61

Estimating coverage of a community-based home care programme. Drew RS, et al. **Trop Doct** 1997 Oct; 27(4):210-4

PARASITOLOGY

Cyclosporiasis in North America associated with fruit and vegetables. **Commun Dis Rep CDR Wkly** 1997 Aug 8; 7(32):283, 286

Reiter's syndrome associated with cryptosporidial gastroenteritis. Cron RQ, et al. **J Rheumatol** 1995 Oct; 22(10):1962-3

PATHOLOGY

Giant antral ulcer: a rare presentation of eosinophilic gastroenteritis--case report and review of the literature. Kristopaitis T, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1205-8 (21 ref.)

Eosinophilic gastroenteritis. Woźniakowska-Gęsicka T, et al. **Rocz Akad Med Bialymst** 1995;40(3):532-7

[Possible combination of eosinophilic infiltration of the stomach, small and large intestines with psoriasis] Sklianskaia OA, et al. **Arkh Patol** 1997 May-Jun;59(3):54-8 (Eng. Abstr.) **(Rus)**

[Structural-metabolic features of uremic gastroenteropathy] Riabov SI, et al. **Klin Med (Mosk)** 1996;74(5):43-7 (Eng. Abstr.) **(Rus)**

[Eosinophilic gastroenteritis associated with rheumatoid arthritis. Its presentation as acute abdominal pain (letter)] Medina Pérez M, et al. **Rev Esp Enferm Dig** 1997 Feb; 89(2):143-4 **(Spa)**

PREVENTION & CONTROL

Recombinant Norwalk virus-like particles as an oral vaccine. Ball JM, et al. **Arch Virol Suppl** 1996;12:243-9

Prophylaxis of rotavirus gastroenteritis using immunoglobulin. Ebina T. **Arch Virol Suppl** 1996;12:217-23

Effects of tepoxalin, a dual inhibitor of cyclooxygenase/5-lipoxygenase, on events associated with NSAID-induced gastrointestinal inflammation. Kirchner T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jun;56(6):417-23

Steaming oysters does not prevent Norwalk-like gastroenteritis. Kirkland KB, et al. **Public Health Rep** 1996 Nov-Dec;111(6):527-30

RADIONUCLIDE IMAGING

The usefulness of Tc-99m HMPAO labeled WBC SPECT in eosinophilic gastroenteritis. Lee KJ, et al. **Clin Nucl Med** 1997 Aug;22(8):536-41

THERAPY

Photo case: cupping lesions [letter] Powers RD. **Acad Emerg Med** 1997 Feb;4(2):160

Antiemetic activity of ondansetron in acute gastroenteritis. Cubeddu LX, et al. **Aliment Pharmacol Ther** 1997 Feb; 11(1):185-91

American Academy of Pediatrics develops guidelines for acute gastroenteritis in young children. **Am Fam Physician** 1996 Oct;54(5):1796, 1799

Outpatient oral rehydration [letter; comment] Ladinsky M, et al. **Ann Emerg Med** 1997 Apr;29(4):551-2. Comment on: Ann Emerg Med 1996 Sep;28(3):318-23.

Outpatient oral rehydration [letter; comment] Meyers A. **Ann Emerg Med** 1997 Apr;29(4):552-3. Comment on: Ann Emerg Med 1996 Sep;28(3):318-23.

Oral immunoglobulins for gastroenteritis. Dattani SJ, et al. **Ann Pharmacother** 1996 Nov;30(11):1323-4

Clinical uses of probiotics for stabilizing the gut mucosal barrier: successful strains and future challenges. Salminen S, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2-4):347-58 (90 ref.)

Treatment of acute gastroenteritis: too much and too little care. Merrick N, et al. **Clin Pediatr (Phila)** 1996 Sep; 35(9):429-35 (38 ref.)

Glucose-based oral rehydration therapy. Richardson CR. **J Fam Pract** 1996 Oct;43(4):344-5

A controlled trial comparing the efficacy of rice-based and hypotonic glucose oral rehydration solutions in infants and young children with gastroenteritis. Wall CR, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):24-8

Fluid management in gastroenteritis [letter; comment] Howard K. **J Paediatr Child Health** 1996 Aug;32(4):354. Comment on: J Paediatr Child Health 1996 Feb;32(1):16-7. Comment on: J Paediatr Child Health 1996 Feb;32(1):18-21.

A multicentre study on behalf of the European Society of Paediatric Gastroenterology and Nutrition Working Group on Acute Diarrhoea. Early feeding in childhood gastroenteritis. Sandhu BK, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):522-7

Guidelines prepared by the ESPGAN Working Group on Acute Diarrhoea. Recommendations for feeding in childhood gastroenteritis. European Society of Pediatric Gastroenterology and Nutrition. Walker-Smith JA, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):619-20

Doctors, parents and good clinical practice [editorial; comment] Oberklaid F, et al. **Med J Aust** 1997 Aug 18; 167(4):181-2. Comment on: Med J Aust 1997 Aug 18;167(4):195-8.

Management of childhood gastroenteritis in the community [see comments] Porteous JE, et al. **Med J Aust** 1997 Aug 18;167(4):195-8. Comment in: Med J Aust 1997 Aug 18;167(4):181-2.

A synopsis of the American Academy of Pediatrics' practice parameter on the management of acute gastroenteritis in young children. Nazarian LF. **Pediatr Rev** 1997 Jul; 18(7):221-3

VETERINARY

Diagnosing emerging bacterial infections: salmonellosis, campylobacteriosis, clostridial toxicosis, and helicobacteriosis. McDonough PL, et al. **Semin Vet Med Surg (Small Anim)** 1996 Aug;11(3):187-97 (32 ref.)

An attempt to control lungworm disease and parasitic gastroenteritis on commercial dairy farms by the use of an adaptation of Michel's dose-and-move system. Eysker M, et al. **Vet Q** 1997 Jun;19(2):61-4

VIROLOGY

Enteric pathogens in severe forms of acute gastroenteritis in Ghanaian children. Hori H, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):672-6

Characterization of human rotaviruses isolated from symptomatic and asymptomatic infections. Tietzová J, et al. **Acta Virol** 1995 Sep;39(4):211-214

Characterization of rotaviral RNA isolated from children with gastroenteritis in Poland. Szczepaniak Z, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5-6):303-8

Divergence of VP7 genes of G1 rotaviruses isolated from infants vaccinated with reassortant rhesus rotaviruses. Jin Q, et al. **Arch Virol** 1996;141(11):2057-76

Dot blot hybridization with a cDNA probe derived from the human calicivirus Sapporo 1982 strain. Kogawa K, et al. **Arch Virol** 1996;141(10):1949-59

Structural features unique to enteric adenoviruses. Brown M, et al. **Arch Virol Suppl** 1996;12:301-7 (46 ref.)

Overview of viral gastroenteritis. Kapikian AZ. **Arch Virol Suppl** 1996;12:7-19 (38 ref.)

Structure of Norwalk virus. Prasad BV, et al. **Arch Virol Suppl** 1996;12:237-42

Viral gastroenteritis. Introduction. Urasawa S. **Arch Virol Suppl** 1996;12:1-6 (13 ref.)

Reverse transcription-polymerase chain reaction detection and sequence analysis of small round-structured viruses in Japan. Yamazaki K, et al. **Arch Virol Suppl** 1996;12:271-6

An electron microscopical investigation of small round viruses in non-bacterial gastroenteritis. Sigari G, et al. **Boll Soc Ital Biol Sper** 1997 Jan-Feb;73(1-2):31-8

An outbreak of viral gastroenteritis in a nursing home: importance of excluding ill employees. Rodriguez EM, et al. **Infect Control Hosp Epidemiol** 1996 Sep;17(9):587-92

Longitudinal study of molecular epidemiology of small round-structured viruses in a pediatric population. Levett PN, et al. **J Clin Microbiol** 1996 Jun;34(6):1497-501

Annual incidence, serotype distribution, and genetic diversity of human astrovirus isolates from hospitalized children in Melbourne, Australia. Palombo EA, et al. **J Clin Microbiol** 1996 Jul;34(7):1750-3

Study of Norwalk virus and Mexico virus infections at Ga-Rankuwa Hospital, Ga-Rankuwa, South Africa. Smit TK, et al. **J Clin Microbiol** 1997 Sep;35(9):2381-5

Viral gastroenteritis: small round structured viruses, caliciviruses and astroviruses. Part I. The clinical and diagnostic perspective. Caul EO. **J Clin Pathol** 1996 Nov; 49(11):874-80 (58 ref.)

Inter-relationships among subgroups, serotypes, and electropherotypes of rotaviruses isolated from humans. el-Assouli SM. **J Diarrhoeal Dis Res** 1996 Sep;14(3):201-6

Viral diarrhoea in hospitals [letter; comment] Caul EO, et al. **J Hosp Infect** 1995 Dec;31(4):320-1; discussion 321-2 . Comment on: J Hosp Infect 1995 May;30(1):1-6.

Possible prolonged environmental survival of small round structured viruses [letter] Cheesbrough JS, et al. **J Hosp Infect** 1997 Apr;35(4):325-6

Humoral immunity patterns based on antibody reactivity to rotavirus antigens in Brazilian children under 5 years of age. Andrade GP, et al. **J Med Virol** 1996 Jul;49(3):212-7

Outbreak of gastroenteritis in military recruits associated with serotype 3 astrovirus infection. Belliot G, et al. **J Med Virol** 1997 Feb;51(2):101-6

Mixed genogroup SRSV infections among a party of canoeists exposed to contaminated recreational water. Gray JJ, et al. **J Med Virol** 1997 Aug;52(4):425-9

Capsid sequence diversity in small round structured viruses from recent UK outbreaks of gastroenteritis. Green SM, et al. **J Med Virol** 1997 May;52(1):14-9

Sequence analysis of SRSV in fecal specimens from an epidemic of infantile gastroenteritis, October to December 1995, Japan. Matsuno S, et al. **J Med Virol** 1997 Aug; 52(4):377-80

Parkville virus: a novel genetic variant of human calicivirus in the Sapporo virus clade, associated with an outbreak of gastroenteritis in adults. Noel JS, et al. **J Med Virol** 1997 Jun;52(2):173-8

Isolation and serial propagation of human group C rotaviruses in a cell line (CaCo-2). Shinozaki K, et al. **J Med Virol** 1996 Jan;48(1):48-52

Incidence of human calicivirus and rotavirus infection in patients with gastroenteritis in South Africa. Wolfaardt M, et al. **J Med Virol** 1997 Apr;51(4):290-6

Longitudinal study of rotavirus infection in child-care centres. Ferson MJ, et al. **J Paediatr Child Health** 1997 Apr;33(2):157-60

Diversity of rotavirus strains infecting pediatric patients in New Delhi, India. Chatterjee B, et al. **J Trop Pediatr** 1996 Aug;42(4):207-10

An outbreak of Norwalk-like virus infection in Tokyo and Saitama in late 1995. Akihara S, et al. **Kansenshogaku Zasshi** 1996 Aug;70(8):840-1

Rotavirus gastroenteritis: impact on young children, their families and the health care system. Liddle JL, et al. **Med J Aust** 1997 Sep 15;167(6):304-7

Norwalk-like virus associated with gastroenteritis in babies [letter] Marshall JA, et al. **Med J Aust** 1997 Mar 3; 166(5):276

Detection of rotavirus RNA in cerebrospinal fluid in a case of rotavirus gastroenteritis with febrile seizures. Pang XL, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):543-5

Steaming oysters does not prevent Norwalk-like gastroenteritis. Kirkland KB, et al. **Public Health Rep** 1996 Nov-Dec;111(6):527-30

Rapid vertical agarose: silver stain detection of rotavirus. Giordano MO, et al. **Viral Immunol** 1997;10(1):59-64

[Virus and gastrointestinal infections] Denis F, et al. **Ann Biol Clin (Paris)** 1997 Jul-Aug;55(4):275-87 (13 ref.) (Eng. Abstr.) **(Fre)**

[Acute gastroenteritis caused by small round viruses] Haim M, et al. **Harefuah** 1997 Mar 16;132(6):427-31 (45 ref.) **(Heb)**

[Outbreak of food-borne gastroenteritis caused by a Norwalk-like virus. Evaluation of methods for confirmation of the etiology in suspected viral

gastroenteritis] Andersen FR, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3325–8 (Eng. Abstr.) **(Nor)**

[Rotavirus: clinical and epidemiological study in hospitalized children under two years of age] Rodríguez Cervilla J, et al. **An Esp Pediatr** 1996 Nov;45(5):499–504 (Eng. Abstr.) **(Spa)**

GASTROENTERITIS, TRANSMISSIBLE, OF SWINE

DIAGNOSIS

An overview of immunological and genetic methods for detecting swine coronaviruses, transmissible gastroenteritis virus, and porcine respiratory coronavirus in tissues. Sirinarumitr T, et al. **Adv Exp Med Biol** 1997;412:37–46 (46 ref.)

Use of nonradioactive cDNA probes to differentiate porcine respiratory coronavirus and transmissible gastroenteritis virus isolates. Vaughn EM, et al. **J Vet Diagn Invest** 1996 Apr;8(2):241–4

Detection of transmissible gastroenteritis virus by RT–PCR and differentiation from porcine respiratory coronavirus. Paton D, et al. **J Virol Methods** 1997 Jul;66(2):303–9

IMMUNOLOGY

Active and passive immune responses to transmissible gastroenteritis virus (TGEV) in swine inoculated with recombinant baculovirus–expressed TGEV spike glycoprotein vaccines. Shoup DI, et al. **Am J Vet Res** 1997 Mar;58(3):242–50

PATHOLOGY

Immunohistochemistry of transmissible gastroenteritis virus antigens in fixed paraffin–embedded tissues. Shoup DI, et al. **J Vet Diagn Invest** 1996 Apr;8(2):161–7

VIROLOGY

Mucosal immunity: an overview and studies of enteric and respiratory coronavirus infections in a swine model of enteric disease. Saif LJ. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):163–9 (50 ref.)

Detection of porcine respiratory coronavirus and transmissible gastroenteritis virus by an enzyme–linked immunosorbent assay. Cornaglia E, et al. **Vet Microbiol** 1994 Dec;42(4):349–59

GASTROENTERITIS, TRANSMISSIBLE, PORCINE see **GASTROENTERITIS, TRANSMISSIBLE, OF SWINE**

GASTROENTERITIS VIRUS, MURINE

Patterns of oligodendrocyte pathology in coronavirus–induced subacute demyelinating encephalomyelitis in the Lewis rat. Barac–Latas V, et al. **Glia** 1997 Jan;19(1):1–12

Mouse hepatitis viral infection induces an extrathymic differentiation of the specific intrahepatic alpha beta–TCRintermediate LFA–1high T–cell population. Lamontagne L, et al. **Immunology** 1997 Mar;90(3):402–11

Nitric oxide synthase type II expression by different cell types in MHV–JHM encephalitis suggests distinct roles for nitric oxide in acute versus persistent virus infection. Grzybicki DM, et al. **J Neuroimmunol** 1997 Mar;73(1–2):15–27

Immune regulation of coronavirus–induced demyelinating encephalomyelitis. Stohlman SA, et al. **J Neurovirol** 1997 May;3 Suppl 1:S56–7

Generation of antiviral CD11ahigh T cells in CD4+ T cell–depleted mice and adult thymectomized mice after mouse hepatitis virus infection. Kyuwa S, et al. **J Vet Med Sci** 1996 May;58(5):465–7

Characterization of T cells expanded in vivo during primary mouse hepatitis virus infection in mice. Kyuwa S, et al. **J Vet Med Sci** 1996 May;58(5):431–7

Human carcinoembryonic antigen and biliary glycoprotein can serve as mouse hepatitis virus receptors. Chen DS, et al. **J Virol** 1997 Feb;71(2):1688–91

Hepatic pathology resulting from mouse hepatitis virus S infection in severe combined immunodeficiency mice. Huang DS, et al. **Lab Anim Sci** 1996 Apr;46(2):167–73

[Structure and biological functions of the spike protein of mouse hepatitis virus] Taguchi F. **Uirusu** 1996 Dec; 46(2):109–17 (52 ref.) **(Jpn)**

DRUG EFFECTS

Antisense RNA–mediated inhibition of mouse hepatitis virus replication in L2 cells. Thieringer HA, et al. **Antisense Res Dev** 1995 Winter;5(4):289–94

ENZYMOLOGY

Expression and characterization of a recombinant murine coronavirus 3C–like proteinase. Seybert A, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):71–5

Intracellular and in vitro–translated 27–kDa proteins contain the 3C–like proteinase activity of the coronavirus MHV–A59. Lu X, et al. **Virology** 1996 Aug 15; 222(2):375–82

Determinants of mouse hepatitis virus 3C–like proteinase activity. Lu Y, et al. **Virology** 1997 Apr 14;230(2):335–42

Efficient autoproteolytic processing of the MHV–A59 3C–like proteinase from the flanking hydrophobic domains requires membranes. Piñón JD, et al. **Virology** 1997 Apr 14;230(2):309–22

Identification of the polymerase polyprotein products p72 and p65 of the murine coronavirus MHV–JHM. Gao HQ, et al. **Virus Res** 1996 Dec;45(2):101–9

GENETICS

No evidence for quasispecies populations during persistence of the coronavirus mouse hepatitis virus JHM: sequence conservation within the surface glycoprotein gene S in Lewis rats. Stühler A, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):747–56

Neuropathogenicity of mouse hepatitis virus JHM isolates differing in hemagglutinin–esterase protein expression [see comments] Yokomori K, et al. **J Neurovirol** 1995 Dec; 1(5–6):330–9. Comment in: J Neurovirol 1995 Dec;1(5–6):323–5.

Cytolytic activity induced by intramuscular injection of plasmid DNA expressing the nucleocapsid protein of the JHM strain of mouse hepatitis virus into C57BL/6 mice. Hayashi M, et al. **J Vet Med Sci** 1996 Aug;58(8):731–5

Episodic evolution mediates interspecies transfer of a murine coronavirus. Baric RS, et al. **J Virol** 1997 Mar; 71(3):1946–55

Characterization of a second cleavage site and demonstration of activity in trans by the papain–like proteinase of the murine coronavirus mouse hepatitis virus strain A59. Bonilla PJ, et al. **J Virol** 1997 Feb;71(2):900–9

Analysis of a recombinant mouse hepatitis virus expressing a foreign gene reveals a novel aspect of coronavirus transcription. Fischer F, et al. **J Virol** 1997 Jul; 71(7):5148–60

Characterization of two temperature–sensitive mutants of coronavirus mouse hepatitis virus strain A59 with maturation defects in the spike protein. Luytjes W, et al. **J Virol** 1997 Feb;71(2):949–55

Cytotoxic T–cell–resistant variants arise at early times after infection in C57BL/6 but not in SCID mice infected with a neurotropic coronavirus. Pewe L, et al. **J Virol** 1997 Oct; 71(10):7640–7

Generation of coronavirus spike deletion variants by high–frequency recombination at regions of predicted RNA secondary structure. Rowe CL, et al. **J Virol** 1997 Aug;71(8):6183–90

Evolution of mouse hepatitis virus: detection and characterization of spike deletion variants during persistent infection. Rowe CL, et al. **J Virol** 1997 Apr;71(4):2959–69

Characterization of mRNAs 4 and 5 of enterotropic mouse hepatitis virus. Homberger FR, et al. **Lab Anim Sci** 1997 Feb;47(1):86–90

Heterogeneous nuclear ribonucleoprotein A1 binds to the transcription–regulatory region of mouse hepatitis virus RNA. Li HP, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9544–9

Virus RNA persists within the retina in coronavirus–induced retinopathy. Komurasaki Y, et al. **Virology** 1996 Aug 15; 222(2):446–50

A specific host cellular protein binding element near the 3' end of mouse hepatitis virus genomic RNA. Liu Q, et al. **Virology** 1997 May 26;232(1):74–85

Recombinant genomic RNA of coronavirus MHV–A59 after coreplication with a DI RNA containing the MHV–RI spike gene. Zhang L, et al. **Virology** 1997 Mar 31; 230(1):93–102

IMMUNOLOGY

Maternal antibodies protect immunoglobulin deficient neonatal mice from mouse hepatitis virus (MHV)–associated wasting syndrome. Gustafsson E, et al. **Am J Reprod Immunol** 1996 Jul;36(1):33–9

Coronavirus–induced encephalomyelitis: balance between protection and immune pathology depends on the immunization schedule with spike protein S. Flory E, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):873–9

Phenotypic and functional characterization of CD8+ T lymphocytes from the central nervous system of rats with coronavirus JHM induced demyelinating encephalomyelitis [see comments] Hein A, et al. **J Neurovirol** 1995 Dec; 1(5–6):340–8. Comment in: J Neurovirol 1995 Dec;1(5–6):323–5.

Cytolytic activity induced by intramuscular injection of plasmid DNA expressing the nucleocapsid protein of the JHM strain of mouse hepatitis virus into C57BL/6 mice. Hayashi M, et al. **J Vet Med Sci** 1996 Aug;58(8):731–5

Disassociation between the in vitro and in vivo effects of nitric oxide on a neurotropic murine coronavirus. Lane TE, et al. **J Virol** 1997 Mar;71(3):2202–10

Mouse hepatitis virus is cleared from the central nervous systems of mice lacking perforin–mediated cytolysis. Lin MT, et al. **J Virol** 1997 Jan;71(1):383–91

Cytotoxic T–cell–resistant variants arise at early times after infection in C57BL/6 but not in SCID mice infected with a neurotropic coronavirus. Pewe L, et al. **J Virol** 1997 Oct; 71(10):7640–7

Differential antigen recognition by T cells from the spleen and central nervous system of coronavirus–infected mice. Castro RF, et al. **Virology** 1996 Aug 1;222(1):247–51

Kinetics of cytokine mRNA expression in the central nervous system following lethal and nonlethal coronavirus–induced acute encephalomyelitis. Parra B, et al. **Virology** 1997 Jul 7;233(2):260–70

Immunogenicity of JHM virus proteins: characterization of a CD4+ T cell epitope on nucleocapsid protein which induces different T–helper cell subsets. van der Veen RC. **Virology** 1996 Nov 15;225(2):339–46

Expression of interferon–gamma by a coronavirus defective–interfering RNA vector and its effect on viral replication, spread, and pathogenicity. Zhang X, et al. **Virology** 1997 Jul 7;233(2):327–38

Mouse hepatitis virus infection of mice causes long–term depletion of lactate dehydrogenase–elevating virus–permissive macrophages and T lymphocyte alterations. Even C, et al. **Virus Res** 1995 Dec; 39(2–3):355–64

ISOLATION & PURIFICATION

Chronic infection of Balb/c mice with murine herpesvirus 72 is associated with neoplasm development. Mistríková J, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):297–301

Age–related changes in susceptibility of mice to low–virulent mouse hepatitis virus (MHV–2–CC) infection. Suzuki H, et al. **Exp Anim** 1997 Jul;46(3):211–8

Detection of enterotropic mouse hepatitis virus fecal excretion by polymerase chain reaction. Casebolt DB, et al. **Lab Anim Sci** 1997 Feb;47(1):6–10

METABOLISM

A role for naturally occurring variation of the murine coronavirus spike protein in stabilizing association with the cellular receptor. Gallagher TM. **J Virol** 1997 Apr; 71(4):3129–37

Spike glycoprotein–mediated fusion in biliary glycoprotein–independent cell–associated spread of mouse hepatitis virus infection. Nash TC, et al. **Virology** 1996 Sep 1;223(1):68–78

Identification of a contiguous 6–residue determinant in the MHV receptor that controls the level of virion binding to cells. Rao PV, et al. **Virology** 1997 Mar 17;229(2):336–48

A conditional–lethal murine coronavirus mutant that fails to incorporate the spike glycoprotein into assembled virions. Ricard CS, et al. **Virus Res** 1995 Dec;39(2–3):261–76

PATHOGENICITY

Maternal antibodies protect immunoglobulin deficient neonatal mice from mouse hepatitis virus (MHV)–associated wasting syndrome. Gustafsson E, et al. **Am J Reprod Immunol** 1996 Jul;36(1):33–9

Pathogenesis of mouse hepatitis virus–induced demyelination. Houtman JJ, et al. **J Neurovirol** 1996 Dec;2(6):361–76 (200 ref.)

Further observations on coronavirus infection of primate CNS. Murray RS, et al. **J Neurovirol** 1997 Feb;3(1):71–5

CD4+ and CD8+ T cells are not major effectors of mouse hepatitis virus A59–induced demyelinating disease. Sutherland RM, et al. **J Neurovirol** 1997 Jun;3(3):225–8

Enterotropic mouse hepatitis virus. Homberger FR. **Lab Anim** 1997 Apr;31(2):97–115 (145 ref.)

Murine coronavirus infection: a paradigm for virus–induced demyelinating disease [see comments] Lane TE, et al. **Trends Microbiol** 1997 Jan;5(1):9–14 (66 ref.). Comment in: Trends Microbiol 1997 Apr;5(4):139–40.

PHYSIOLOGY

Alteration of macrophage functions by cocaine. Lefkowitz SS, et al. **Adv Exp Med Biol** 1996;402:135–44

Mouse hepatitis virus strain A59 is released from opposite sides of different epithelial cell types. Rossen JW, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):61–9

Dissociation of demyelination and viral clearance in congenitally immunodeficient mice infected with murine coronavirus JHM. Houtman JJ, et al. **J Neurovirol** 1996 Apr;2(2):101–10

Modulation of mouse hepatitis virus infection by defective–interfering RNA–mediated expression of viral proteins and cytokines. Lai MM, et al. **J Neurovirol** 1997 May;3 Suppl 1:S33–4

Resistance to infection with mouse hepatitis virus (MHV) in the cell clones derived from persistently infected DBT cells with the JHM strain of MHV. Maeda A, et al. **J Vet Med Sci** 1997 Jul;59(7):545–9

A subgenomic mRNA transcript of the coronavirus mouse hepatitis virus strain A59 defective interfering (DI) RNA is packaged when it contains the DI packaging signal. Bos EC, et al. **J Virol** 1997 Jul;71(7):5684–7

The internal open reading frame within the nucleocapsid gene of mouse hepatitis virus encodes a structural protein that is not essential for viral replication. Fischer F, et al. **J Virol** 1997 Feb;71(2):996–1003

A bulged stem–loop structure in the 3' untranslated region of the genome of the coronavirus mouse hepatitis virus is essential for replication. Hsue B, et al. **J Virol** 1997 Oct; 71(10):7567–78

Assembled coronavirus from complementation of two defective interfering RNAs. Kim KH, et al. **J Virol** 1997 May;71(5):3922–31

Murine coronavirus packaging signal confers packaging to nonviral RNA. Woo K, et al. **J Virol** 1997 Jan;71(1):824–7

Cocaine inhibits production of murine hepatitis virus by peritoneal macrophages in vitro. Lefkowitz SS, et al.

GASTROENTERITIS VIRUS, MURINE

Proc Soc Exp Biol Med 1997 May;215(1):87–93

Host-derived intracellular immunization against mouse hepatitis virus infection. Chen W, et al. **Virology** 1997 Feb 17;228(2):318–32

Regulation of the initiation of coronavirus JHM infection in primary oligodendrocytes and L-2 fibroblasts. Kalicharran K, et al. **Virology** 1996 Nov 1;225(1):33–43

Entry of mouse hepatitis virus into cells by endosomal and nonendosomal pathways. Nash TC, et al. **Virology** 1997 Jun 23;233(1):1–8

A murine and a porcine coronavirus are released from opposite surfaces of the same epithelial cells. Rossen JW, et al. **Virology** 1996 Oct 1;224(1):345–51

Acquired fusion activity of a murine coronavirus MHV-2 variant with mutations in the proteolytic cleavage site and the signal sequence of the S protein. Yamada YK, et al. **Virology** 1997 Jan 6;227(1):215–9

GASTROENTERITIS VIRUS OF SWINE see **GASTROENTERITIS VIRUS, PORCINE TRANSMISSIBLE**

GASTROENTERITIS VIRUS, PORCINE TRANSMISSIBLE

CHEMISTRY

Cooperation between transmissible gastroenteritis coronavirus (TGEV) structural proteins in the in vitro induction of virus-specific antibodies. Antón IM, et al. **Virus Res** 1996 Dec;46(1-2):111–24

GENETICS

Pathogenicity and sequence analysis studies suggest potential role of gene 3 in virulence of swine enteric and respiratory coronaviruses. Paul PS, et al. **Adv Exp Med Biol** 1997; 412:317–21

An overview of immunological and genetic methods for detecting swine coronaviruses, transmissible gastroenteritis virus, and porcine respiratory coronavirus in tissues. Sirinarumitr T, et al. **Adv Exp Med Biol** 1997;412:37–46 (46 ref.)

Development of PCR-based techniques to identify porcine transmissible gastroenteritis coronavirus isolates. Woods RD. **Can J Vet Res** 1997 Jul;61(3):167–72

The major subunit ClpG of Escherichia coli CS31A fibrillae as an expression vector for different combinations of two TGEV coronavirus epitopes. Méchin MC, et al. **Gene** 1996 Nov 14;179(2):211–8

Comparison of the amino acid sequence and phylogenetic analysis of the peplomer, integral membrane and nucleocapsid proteins of feline, canine and porcine coronaviruses. Motokawa K, et al. **Microbiol Immunol** 1996;40(6):425–33

IMMUNOLOGY

An overview of immunological and genetic methods for detecting swine coronaviruses, transmissible gastroenteritis virus, and porcine respiratory coronavirus in tissues. Sirinarumitr T, et al. **Adv Exp Med Biol** 1997;412:37–46 (46 ref.)

Active and passive immune responses to transmissible gastroenteritis virus (TGEV) in swine inoculated with recombinant baculovirus-expressed TGEV spike glycoprotein vaccines. Shoup DI, et al. **Am J Vet Res** 1997 Mar;58(3):242–50

Interference of coronavirus infection by expression of immunoglobulin G (IgG) or IgA virus-neutralizing antibodies. Castilla J, et al. **J Virol** 1997 Jul;71(7):5251–8

An Escherichia coli CS31A fibrillum chimera capable of inducing memory antibodies in outbred mice following booster immunization with the entero-pathogenic coronavirus transmissible gastroenteritis virus. Der Vartanian M, et al. **Vaccine** 1997 Feb;15(2):111–20

Reconstituted coronavirus TGEV virosomes lose the virus ability to induce porcine interferon-alpha production [corrected and republished in Vet Res 1997;28(2):105–14] Riffault S, et al. **Vet Res** 1997;28(1):77–86

Cooperation between transmissible gastroenteritis coronavirus (TGEV) structural proteins in the in vitro induction of virus-specific antibodies. Antón IM, et al. **Virus Res** 1996 Dec;46(1-2):111–24

ISOLATION & PURIFICATION

Development of PCR-based techniques to identify porcine transmissible gastroenteritis coronavirus isolates. Woods RD. **Can J Vet Res** 1997 Jul;61(3):167–72

Immunohistochemistry of transmissible gastroenteritis virus antigens in fixed paraffin-embedded tissues. Shoup DI, et al. **J Vet Diagn Invest** 1996 Apr;8(2):161–7

Use of nonradioactive cDNA probes to differentiate porcine respiratory coronavirus and transmissible gastroenteritis virus isolates. Vaughn EM, et al. **J Vet Diagn Invest** 1996 Apr;8(2):241–4

Isolation of porcine respiratory coronavirus from pigs affected with porcine reproductive and respiratory syndrome. Kamogawa O, et al. **J Vet Med Sci** 1996 Apr; 58(4):385–8

Detection of transmissible gastroenteritis virus by RT-PCR and differentiation from porcine respiratory coronavirus. Paton D, et al. **J Virol Methods** 1997 Jul;66(2):303–9

In situ hybridization technique for the detection of swine enteric and respiratory coronaviruses, transmissible gastroenteritis virus (TGEV) and porcine respiratory coronavirus (PRCV), in formalin-fixed paraffin-embedded tissues. Sirinarumitr T, et al. **J Virol Methods** 1996 Feb; 56(2):149–60

Detection of porcine respiratory coronavirus and transmissible gastroenteritis virus by an enzyme-linked immunosorbent assay. Cornaglia E, et al. **Vet Microbiol** 1994 Dec;42(4):349–59

METABOLISM

Interspecies aminopeptidase-N chimeras reveal species-specific receptor recognition by canine coronavirus, feline infectious peritonitis virus, and transmissible gastroenteritis virus. Benbacer L, et al. **J Virol** 1997 Jan;71(1):734–7

Point mutations in the S protein connect the sialic acid binding activity with the enteropathogenicity of transmissible gastroenteritis coronavirus. Krempl C, et al. **J Virol** 1997 Apr;71(4):3285–7

Transmissible gastroenteritis coronavirus, but not the related porcine respiratory coronavirus, has a sialic acid (N-glycolylneuraminic acid) binding activity. Schultze B, et al. **J Virol** 1996 Aug;70(8):5634–7

Feline aminopeptidase N serves as a receptor for feline, canine, porcine, and human coronaviruses in serogroup I. Tresnan DB, et al. **J Virol** 1996 Dec;70(12):8669–74

PHYSIOLOGY

Coronavirus genomic and subgenomic minus-strand RNAs copartition in membrane-protected replication complexes. Sethna PB, et al. **J Virol** 1997 Oct;71(10):7744–9

In vivo study of interferon-alpha-secreting cells in pig foetal lymphohaematopoietic organs following in utero TGEV coronavirus injection. Splichal I, et al. **Res Immunol** 1997 May;148(4):247–56

Reconstituted coronavirus TGEV virosomes lose the virus ability to induce porcine interferon-alpha production [corrected and republished article originally printed in Vet Res 1997;28(1):77–86] Riffault S, et al. **Vet Res** 1997; 28(2):105–14

Two amino acid changes at the N-terminus of transmissible gastroenteritis coronavirus spike protein result in the loss of enteric tropism. Ballesteros ML, et al. **Virology** 1997 Jan 20;227(2):378–88

A murine and a porcine coronavirus are released from opposite surfaces of the same epithelial cells. Rossen JW, et al. **Virology** 1996 Oct 1;224(1):345–51

GASTROENTEROLOGY

see related

GASTROINTESTINAL DISEASES

IXth Belgian Week of Gastroenterology. 1997. Abstracts. **Acta Gastroenterol Belg** 1997 Jan-Mar;60(1):A1–F13

Helicobacter pylori serology and the management of young dyspeptics: a UK survey of gastroenterologists and general practitioners with an interest in gastroenterology. Lim AG, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):299–303

American Gastroenterology Association issues guidelines for colorectal cancer screening. **Am Fam Physician** 1997 Jun; 55(8):2860–2, 2865

Editorial review and the American Journal of Gastroenterology [editorial] Zetterman RK. **Am J Gastroenterol** 1996 Dec;91(12):2459–60

The rise and fall of gastroenterology [letter; comment] Hershfield NB. **Can J Gastroenterol** 1997 May-Jun; 11(4):376. Comment on: Can J Gastroenterol 1997 Jan-Feb;11(1):106–8.

Common problems in pediatric gastroenterology. Squires RH Jr. **Compr Ther** 1996 Dec;22(12):767–75 (61 ref.)

Future perspectives in gastroenterology. Proceedings of an international conference. Leipzig, Germany, June 6–8, 1996. **Digestion** 1997;58 Suppl 1:1–116

5th United European Gastroenterology Week. Paris, 2–6 November 1996. Abstracts. **Endoscopy** 1996 Oct; 28(8):650–9, S1–78

American Gastroenterological Association medical position statement: guidelines on the use of esophageal pH recording. **Gastroenterology** 1996 Jun;110(6):1981

Digestive Disease Week and the 97th Annual Meeting of the American Gastroenterological Association, Washington, D.C., May 11–14, 1997. Abstracts. **Gastroenterology** 1997 Apr;112(4 Suppl):A1–1487

American Gastroenterological Association. Presentation of the Julius M. Friedenwald medal to David H. Alpers, M.D. Clouse RE, et al. **Gastroenterology** 1997 May;112(5):1744–7

Principal care physician initiative. Eastwood GL. **Gastroenterology** 1997 May;112(5):1750–2

The global mission of the American Gastroenterological Association in advancing gastroenterology: rising to new international challenges. Fromm H. **Gastroenterology** 1996 Oct;111(4):1141–2

The American Gastroenterological Association: the defining force in gastroenterology--for everybody! Gelfand MD. **Gastroenterology** 1996 Sep;111(3):811–2

Learning from the mistakes of Malthus: GI and manpower planning. Podolsky DK, et al. **Gastroenterology** 1997 Feb; 112(2):325

Gastroenterology, research, and the American Gastroenterological Association: today's investigation, tomorrow's practice. Podolsky DK. **Gastroenterology** 1996 Dec;111(6):1753–7

Gastroenterology in the 21st century--strength in unity: 1996 presidential address [editorial] Keeffe EB. **Gastrointest Endosc** 1996 Oct;44(4):505–9

What predicts gastroenterologists' and surgeons' diagnosis and management of common bile duct stones? Shea JA, et al. **Gastrointest Endosc** 1997 Jul;46(1):40–7

The British Society of Gastroenterology, autumn meeting. 18–20 September 1996. Abstracts. **Gut** 1996;39 Suppl 1:A1–49

5th United European Gastroenterology Week. Paris, France, 2–6 November 1996. Abstracts. **Gut** 1996;39 Suppl 3:A1–292

The British Society of Gastroenterology diamond jubilee meeting. Brighton, 18–21 March 1997. Abstracts. **Gut** 1997; 40 Suppl 1:A1–86

HEPATOLOGY and hepatology: the good, the bad, and the ugly [editorial] Berk PD. **Hepatology** 1996 Dec; 24(6):1530–2

Management of hepatitis C: a national survey of gastroenterologists and hepatologists. Everhart JE, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):78S–82S (2 ref.)

Irish Society of Gastroenterology winter meeting. November 29–30, 1996. Abstracts. **Ir J Med Sci** 1997 Jan-Mar;166 Suppl 2:1–23

Irish Association of Gastroenterology, Irish Gerontological Society, Irish Thoracic Society, Irish Endocrine Society annual meetings. 1994, 1995, 1996. Abstracts. **Ir J Med Sci** 1996 Jul-Sep;165 Suppl 4:1–93

Irish Society of Gastroenterology winter meeting. Dublin, 17–18 November 1995. Abstracts. **Ir J Med Sci** 1996 Jan-Mar;165 Suppl 1:4–22

Irish Society of Gastroenterology meeting. 6–7 June 1997. Abstracts. **Ir J Med Sci** 1997 Jul-Sep;166 Suppl 6:1–23

European Union of Medical Specialities section of gastroenterology--present status. O'Morain C, et al. **Ir J Med Sci** 1997 Jan-Mar;166(1):38–40

Italian gastroenterology: present and future. Bianchi PA. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):1–4

Proceedings of the 5th Taisho International Symposium on Gastroenterology. Hakone, Japan, April 6–7, 1994. **J Clin Gastroenterol** 1995;21 Suppl 1:vii–ix, S1–186

The demise of modern medicine and gastroenterology [editorial] Buchman AL. **J Clin Gastroenterol** 1996 Sep; 23(2):91–3

Members of the European Association for the Study of the Liver, 1996. **J Hepatol** 1996;25 Suppl 1:224–42

Shwachman Award acceptance. Gryboski JD. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):371–2

The Shwachman Award of the North American Society for Pediatric Gastroenterology and Nutrition. Presentation. Hillemeier C. **J Pediatr Gastroenterol Nutr** 1997 Apr; 24(4):369–70

Report from the NASPGN Therapeutics Subcommittee. Report of the activities of the gastrointestinal advisory committee to the FDA. Kirschner BS. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):397–8

Indications for pediatric gastrointestinal endoscopy: a medical position statement of the North American Society for Pediatric Gastroenterology and Nutrition. Squires RH Jr, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug; 23(2):107–10

10th Highlights of Gastroenterology in The Netherlands. Proceedings of a symposium. Curaçao, 5–9 April 1995. **Scand J Gastroenterol Suppl** 1996;218:1–123

Current topics in gastroenterology 1995: exploring the jungle. Proceedings of a meeting. **Scand J Gastroenterol Suppl** 1996;220:1–171

11th Highlights of Gastroenterology in The Netherlands. Proceedings of a symposium. Venice, Italy, 28–31 March 1996. **Scand J Gastroenterol Suppl** 1997;223:1–107

28th Nordic Congress of Gastroenterology, 19th Nordic Endoscopic Meeting and 7th SAGIM Scientific Session. Reykjavik, Iceland, 13–15 June 1996. Abstracts. **Scand J Gastroenterol Suppl** 1996;217:1–34

29th Nordic Congress of Gastroenterology, 28th Nordic Endoscopic Meeting and 8th SAGIM Scientific Session. Odense, Denmark, 12–14 June 1997. Abstracts. **Scand J Gastroenterol Suppl** 1997;224:21–71

Gastrointestinal endocrinology. Holst JJ, et al. **Scand J Gastroenterol Suppl** 1996;216:27–38 (74 ref.)

Gastroenterology in the last decennia and initiatives in medical ethics: coincidence or linkage? Thomsen OO, et al. **Scand J Gastroenterol Suppl** 1996;216:208–17

Working party report of the Gastroenterological Society of Singapore. Part II--Helicobacter pylori and non-ulcer dyspepsia in Singapore. Kang JY, et al. **Singapore Med J** 1996 Aug;37(4):428–9

European Gastro Club 28th conference. Munster, 4–5 October 1996. Abstracts. **Z Gastroenterol** 1996 Dec; 34(12):831–42

[Digitalization, archival storage and use of image documentation in the GastroBase-II system] Kocna P. **Cas Lek Cesk** 1997 May 14;136(10):311–4 (Eng. Abstr.) **(Cze)**

[A gastroenterologist on the Internet] Hendel JW. **Ugeskr Laeger** 1997 Jul 14;159(29):4502–3 **(Dan)**

[61st annual meeting of the Swiss Society of Gastroenterology and Hepatology with participation from

the Swiss Association for the Study of the Liver. Lugano, 19–21 September 1996. Abstracts]
Schweiz Med Wochenschr Suppl 1996;82:4S–115S **(Fre, Ger)**

[Report of the 51st Congress of the German Society of Digestive and Metabolic Diseases 18–21 September 1996 in Aachen] Mattern S. **Z Gastroenterol** 1997 Feb; 35(2):XVII–XXIX **(Ger)**

[Gastroenterologic sub-acute care unit at the hospital department of internal medicine letter)] Lakatos L, et al. **Orv Hetil** 1997 Jun 22;138(25):1668 **(Hun)**

[The importance of "subintensive" care units in the gastroenterology section of internal medicine departments (letter)] Nemesánszky E, et al. **Orv Hetil** 1997 Feb 2; 138(5):311 **(Hun)**

[The importance of a sub-intensive care unit in gastroenterology (letter)] Székely G. **Orv Hetil** 1997 Jun 22;138(25):1668 **(Hun)**

[The Brazilian Digestive Motility Society and Arquivos de Gastroenterologia (editorial)] Michelsohn NH. **Arq Gastroenterol** 1995 Jul–Sep;32(3):101 **(Por)**

[Non-conventional gastroenterology] Rapoport SI. **Klin Med (Mosk)** 1997;75(5):14–7 (27 ref.) **(Rus)**

[Bibliographic errors in Revista Española de Enfermedades Digestivas. A retrospective study of the year 1995] Acea Nebril B, et al. **Rev Esp Enferm Dig** 1997 Mar;89(3):212–4 (Eng. Abstr.) **(Spa)**

[Survey on Helicobacter pylori and peptic ulcer in Spain] Pajares García JM, et al. **Rev Esp Enferm Dig** 1996 Oct; 88(10):695–9 (Eng. Abstr.) **(Spa)**

[National meeting of the Mexican Association of Gastroenterology. Monterrey, Mexico, 30 November–5 December 1996. Abstracts] **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 1):S33–109 **(Spa)**

[Mexican consensus on Helicobacter pylori. National Consensus Group of the Mexican Association of Gastroenterology] **Rev Gastroenterol Mex** 1997 Jan–Mar; 62(1):41–5 (0 ref.) **(Spa)**

[Bioethics and gastroenterology] García Romero H. **Rev Gastroenterol Mex** 1996 Jul–Sep;61(3):276–80 **(Spa)**

[Giving up leadership: editorial work, 1994–1996 (editorial)] Marín-López E, et al. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4):394–5 **(Spa)**

[Presidential transition address: the Mexican Association of Gastroenterology (editorial)] Robles Díaz G. **Rev Gastroenterol Mex** 1997 Jan–Mar;62(1):64–5 **(Spa)**

[Presidential acceptance address: the Mexican Association of Gastroenterology (editorial)] Sanjurjo Garán JL. **Rev Gastroenterol Mex** 1997 Jan–Mar;62(1):66–7 **(Spa)**

ECONOMICS

A reader's guide to economic analysis in the GI literature. Provenzale D, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2461–70

Keystone pushes its gastroenterologists into the pool. Bernet PM. **Pa Med** 1996 Feb;99(2):28–9

Economic evaluation in gastrointestinal disease. Jönsson B, et al. **Scand J Gastroenterol Suppl** 1996;220:44–51

EDUCATION

Attitudes and expectations of 1995 gastroenterology graduates about gastroenterology [see comments] McCashland TM, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2091–5. Comment in: Am J Gastroenterol 1996 Oct;91(10):2070–2.

Gastroenterology and hepatology fellowships: are we meeting the needs of our trainees? [editorial; comment] Rose S. **Am J Gastroenterol** 1996 Oct;91(10):2070–2. Comment on: Am J Gastroenterol 1996 Oct;91(10):2091–5.

Quantitative assessment of procedural competence. A prospective study of training in endoscopic retrograde cholangiopancreatography [see comments] Jowell PS, et al. **Ann Intern Med** 1996 Dec 15;125(12):983–9. Comment in: Ann Intern Med 1996 Dec 15;125(12):1003–4.

So you want to train in coloproctology. Nicholls RJ. **Br J Hosp Med** 1997 Jun 4–17;57(11):571–2

The European Diploma of Gastroenterology: progress towards harmonization of standards. Beattie AD, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):403–6

Training in endoscopic ultrasonography. Boyce HW Jr. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S12–5

CME--certification by the European Board of Gastroenterology [see comments] Rhodes JM. **Gut** 1996 Aug;39(2):149–50. Comment in: Gut 1997 Mar;40(3):431.

CME–certification by the European Board of Gastroenterology [letter; comment] Toghill PJ. **Gut** 1997 Mar;40(3):431. Comment on: Gut 1996 Aug;39(2):149–50.

Ultrasound for gastroenterologists [letter; comment] Vallance R. **Gut** 1997 Jan;40(1):156–7. Comment on: Gut 1996 Apr;38(4):479–80.

Ethical problems in gastroenterology [letter] Pandya SK. **Indian J Gastroenterol** 1997 Jul;16(3):122

The Yale-Affiliated Gastroenterology Program. A personal note [editorial] Garsten J. **J Clin Gastroenterol** 1996 Jun; 22(4):255–60 (142 ref.)

Requirements for training to ensure competence of endoscopists performing invasive procedures in children. Training and Education Committee of the North American Society for Pediatric Gastroenterology and Nutrition (NASPGN), the Ad Hoc Pediatric Committee of American Society for Gastrointestinal Endoscopy (ASGE), and the Executive Council of NASPGN [see comments] Hassall E. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):345–7. Comment in: J Pediatr Gastroenterol Nutr 1997 Mar;24(3):366.

Training in endoscopic procedures [letter; comment] Keeffe EB, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):366 . Comment on: J Pediatr Gastroenterol Nutr 1997 Mar;24(3):345–7.

[Methodological bases for raising the quality of physician training in gastroenterology] Medvedev VN, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):199–201 **(Rus)**

HISTORY

Solitary views of the stomach. Blum AL. **Digestion** 1996; 57(5):287–98

The centennial year: the development of important ideas during the last 100 years. Nutrition and the gastroenterologist: the last 100 years. Alpers DH, et al. **Gastroenterology** 1997 Aug;113(2):675–9

American Gastroenterological Association. The centennial year: the development of important ideas during the last 100 years. Farrar JT. **Gastroenterology** 1997 Jan;112(1):287

American Gastroenterological Association. Our new president--Phillip P. Toskes, M.D. McGuigan JE. **Gastroenterology** 1997 May;112(5):1437–41

Presentation of the Julius M. Friedenwald Medal to William Silen, M.D. Matthews JB. **Gastroenterology** 1996 Dec; 111(6):1407–10

[From vascular surgery to gastrointestinal surgery] Mishima Y. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):511–5 (Eng. Abstr.) **(Jpn)**

[Vladimir Kharitonovich Vasilenko (personal impressions)] Sheptulin AA. **Klin Med (Mosk)** 1997;75(4):72–4 **(Rus)**

[VK Vasilenko: some ideas in letters and communications (to his centenary birthday)] Tsimmerman IS. **Klin Med (Mosk)** 1997;75(4):74–6 **(Rus)**

[Development of gastroenterohepatology in Bosnia and Herzegovina] Hadžijahić H. **Med Arh** 1996;50(1–2):65–6 (Eng. Abstr.) **(Scr)**

[Sixty years of gastroenterology in Mexico] Esquivel Rodríguez F. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 1):S9–11 **(Spa)**

[Radiology in gastroenterology in Mexico] Stoopen ME, et al. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 1):S32–7 **(Spa)**

[History of the Gastroenterology Society of Puebla, first branch of the Mexican Gastroenterology Association] Tovia Arrioja F, et al. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 1):S49–50 **(Spa)**

INSTRUMENTATION

Transecting the rectum: the 'clean out' approach [letter; comment] Ribeiro BF. **Ann R Coll Surg Engl** 1996 Nov; 78(6):558. Comment on: Ann R Coll Surg Engl 1996 May;78(3 (Pt 1)):191.

Barostat review [letter] Roelofs JM, et al. **Dig Dis Sci** 1997 Sep;42(9):1957–8

Standardization of barostat procedures for testing smooth muscle tone and sensory thresholds in the gastrointestinal tract. The Working Team of Glaxo-Wellcome Research, UK. Whitehead WE, et al. **Dig Dis Sci** 1997 Feb; 42(2):223–41

Evaluation of a biomagnetic technique for measurement of orocaecal transit time. Oliveira RB, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):491–5

MANPOWER

Gender equality in gastroenterology: an achievable goal? [editorial; comment] Wolf JL. **Gastroenterology** 1997 Aug; 113(2):684–6. Comment on: Gastroenterology 1997 Aug;113(2):669–74.

[Helicobacter pylori—when and how do gastroenterologists treat themselves? A clinical and practical survey] Labenz J, et al. **Dtsch Med Wochenschr** 1997 May 16; 122(20):637–42 (Eng. Abstr.) **(Ger)**

[Gastroenterology in Germany—determination of current status and perspectives. Results of a survey among members of the German Society of Digestive and Metabolic Diseases] Lux G, et al. **Z Gastroenterol** 1996 Sep; 34(9):542–8 (Eng. Abstr.) **(Ger)**

METHODS

A new method to measure gastric emptying in conscious dogs: a validity study and effects of EM523 and L-NNA. Tanaka T, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G909–15

Human gallbladder pressure and volume: validation of a new direct method for measurements of gallbladder pressure in patients with acute cholecystitis. Borly L, et al. **Clin Physiol** 1996 Mar;16(2):145–56

Biochemical tests in diseases of the intestinal tract: their contributions to diagnosis, management, and understanding the pathophysiology of specific disease states. Abdelshaheed NN, et al. **Crit Rev Clin Lab Sci** 1997 Apr; 34(2):141–223 (357 ref.)

Current techniques of assessing defecation dynamics. Rao SS, et al. **Dig Dis** 1997;15 Suppl 1:64–77 (62 ref.)

Gene level diagnostics in gastroenterology. Göke B. **Digestion** 1997;58 Suppl 1:82–5 (2 ref.)

The power and promise of molecular genetics in gastroenterology [editorial; comment] Miller LJ. **Gastroenterology** 1996 Jun;110(6):2015–7 (16 ref.). Comment on: Gastroenterology 1996 Jun;110(6):1975–80.

Photodynamic therapy in gastroenterology. Bown SG, et al. **Gut** 1997 Jul;41(1):5–7

Current topics on digestive disease in Korea. Choi KW. **J Gastroenterol Hepatol** 1997 May;12(5):S8–10

TIPS and refractory ascites. Lessons from the recent history of ascites therapy [editorial] Arroyo V, et al. **J Hepatol** 1996 Aug;25(2):221–3 (24 ref.)

Liver regeneration: methods for monitoring and their applications. Assy N, et al. **J Hepatol** 1997 Apr; 26(4):945–52 (81 ref.)

Diagnosis and treatment of right upper quadrant abdominal pain. Dill JE. **Va Med Q** 1996 Winter;123(1):27–9

ORGANIZATION & ADMINISTRATION

The Gastroenterological Society of Australia. Toouli J. **J Gastroenterol Hepatol** 1997 May;12(5):S5–7

STANDARDS

Aequanimitas, ... and then some. Katz S. **Am J Gastroenterol** 1997 Feb;92(2):199–203

Practice guidelines: why do we need them? Cockeram A. **Can J Gastroenterol** 1997 Jul–Aug;11(5):427–8

[The first Spur-inspections within medical gastroenterology and hepatology: the shortage of specialists is alarming] Rönnblom A, et al. **Lakartidningen** 1996 Nov 13; 93(46):4126, 4131 **(Swe)**

STATISTICS & NUMERICAL DATA

Endoscopists' opinions of indications for upper gastrointestinal endoscopy. Sutherland LR, et al. **Can J Gastroenterol** 1997 Apr;11(3):221–7

The professional lives of women in gastroenterology: a Canadian comparison study with men [see comments] Heathcote J, et al. **Gastroenterology** 1997 Aug; 113(2):669–74. Comment in: Gastroenterology 1997 Aug;113(2):684–6.

Gender equality in gastroenterology: an achievable goal? [editorial; comment] Wolf JL. **Gastroenterology** 1997 Aug; 113(2):684–6. Comment on: Gastroenterology 1997 Aug;113(2):669–74.

The significance of alcoholic liver disease to contemporary clinical hepatology [editorial; comment] Bach N. **Hepatology** 1996 Oct;24(4):959–60. Comment on: Hepatology 1996 Oct;24(4):813–5.

Clinical hepatology: profile of an urban, hospital-based practice [see comments] Byron D, et al. **Hepatology** 1996 Oct;24(4):813–5. Comment in: Hepatology 1996 Oct;24(4):959–60. Comment in: Hepatology 1997 May;25(5):1297.

[Research activity and research quality of German gastroenterologists reflected by citation indices] Ell C, et al. **Z Gastroenterol** 1997 Jan;35(1):23–8 (Eng. Abstr.) **(Ger)**

[Lack of specialists in gastroenterological surgery] Schlichting E, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20; 116(28):3352–3 (Eng. Abstr.) **(Nor)**

TRENDS

Pediatric hepatology: present and future. Zancan L. **Acta Genet Med Gemellol (Roma)** 1996;45(3):377–82 (8 ref.)

The rise and fall of gastroenterology [see comments] Thompson WG. **Can J Gastroenterol** 1997 Jan–Feb; 11(1):106–8. Comment in: Can J Gastroenterol 1997 May–Jun;11(4):376.

Future perspectives in gastroenterology: laser. Riemann JF. **Digestion** 1997;58 Suppl 1:101–3 (21 ref.)

The pendulum of medical progress and intestinal fluid secretion: 1890–1997. Binder HJ. **Gastroenterology** 1997 May;112(5):1748–9

Crigler-Najjar disease type I: therapeutic approaches to genetic liver diseases into the next century [editorial; comment] Green RM, et al. **Gastroenterology** 1997 Feb; 112(2):649–51 (26 ref.). Comment on: Gastroenterology 1997 Feb;112(2):455–62.

Medical progress and ulcer disease: three key observations that changed the compass. Isenberg JI, et al. **Gastroenterology** 1997 Sep;113(3):1031–3 (21 ref.)

Approaches to the diagnosis of gut neuroendocrine tumors: the last word (today). Modlin IM, et al. **Gastroenterology** 1997 Feb;112(2):583–90 (23 ref.)

The growth of knowledge in human digestion and absorption. Phillips SF. **Gastroenterology** 1997 Apr;112(4):1404–5

NMR spectroscopy in portal–systemic encephalopathy: are we there yet? [editorial; comment] Schenker S, et al. **Gastroenterology** 1997 May;112(5):1758–61. Comment on: Gastroenterology 1997 May;112(5):1610–6.

Gene therapy for hepatocellular carcinoma: progress but many stones yet unturned! [editorial; comment] Schuster MJ, et al. **Gastroenterology** 1997 Feb;112(2):656–9 (22 ref.) . Comment on: Gastroenterology 1997 Feb;112(2):501–10.

Evolution and current status of the Whipple procedure: an update for gastroenterologists. Strasberg SM, et al. **Gastroenterology** 1997 Sep;113(3):983–94 (75 ref.)

The science of today is the clinical practice of tomorrow. Yamada T. **Gastroenterology** 1997 Sep;113(3):1026–30

The British Society of Gastroenterology Diamond Jubilee. March 1997. **Gut** 1997 Mar;40 Suppl 2:S1–44

GASTROENTEROLOGY

Review article: new insights into the mechanisms of hepatic transport and bile secretion. Erlinger S. **J Gastroenterol Hepatol** 1996 Jun;11(6):575–9 (34 ref.)

How to apply modern scientific and technological advances to the practice of clinical gastroenterology in Vietnam. Ha MV. **J Gastroenterol Hepatol** 1997 Jun;12(6):S45–7

Development of gastroenterology in Bangladesh. Hasan M, et al. **J Gastroenterol Hepatol** 1997 May;12(5):S13–4 (0 ref.)

Past, present and future of gastroenterology in Japan: the 100th anniversary of the Japanese Society of Gastroenterology in 1998. Sato N, et al. **J Gastroenterol Hepatol** 1997 May;12(5):S2–4

TIPS and refractory ascites. Lessons from the recent history of ascites therapy [editorial] Arroyo V, et al. **J Hepatol** 1996 Aug;25(2):221–3 (24 ref.)

New hepatitis viruses. Heringlake S, et al. **J Hepatol** 1996 Aug;25(2):239–47 (73 ref.)

Gastroenterology and hepatology. Peterson WL, et al. **JAMA** 1997 Jun 18;277(23):1858–60

Gastroenterology. Of oxides and onions. Kapadia CR, et al. **Lancet** 1996 Dec 21–28;348 Suppl 2:sII7 (5 ref.)

Gastro-entero-hepatology in the next millennium. Tytgat GN. **Neth J Med** 1997 May;50(5):228–32

Intussusception in the 1990s: has 25 years made a difference? Ein SH, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):374–6

[Significant progress is being observed in experimental and clinical gastroenterology (editorial)] **Ter Arkh** 1993;65(2):3 **(Rus)**

[The problems of clinical gastroenterology (editorial)] Loginov AS. **Ter Arkh** 1993;65(2):4–7 **(Rus)**

[The problems of present-day enterology (editorial)] Loginov AS, et al. **Ter Arkh** 1997;69(2):5–10 **(Rus)**

[Gastroenterology in Mexico: towards a new millennium] Marín-López E, et al. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 1):S7–8 **(Spa)**

GASTROENTEROSTOMY

Malignant transformation in a duodenal villous adenoma of the afferent limb of Billroth II anastomosis. Kapur A, et al. **J Clin Gastroenterol** 1997 Jun;24(4):290–1

Endoscopic removal of nasogastric tube sutured unintentionally to gastrojejunostomy. Chen CN, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):359–60

A minimally invasive palliative approach to advanced pancreatic and papillary cancer causing both biliary and duodenal obstruction. Born P, et al. **Z Gastroenterol** 1996 Jul;34(7):416–20

[The effect of various surgical management methods of stenosing duodenal ulcers on the stomach mucosa defence barrier] Kuzin NM, et al. **Khirurgiia (Mosk)** 1997;(1):13–7 (Eng. Abstr.) **(Rus)**

[Resection of the stomach in surgery of peptic ulcer] Sheremet PF, et al. **Klin Khir** 1996;(8):54 **(Ukr)**

METHODS

[Advantages and disadvantages of stomach resection with PU anastomosis in treatment of gastric and duodenal peptic ulcers] Maiorova IV, et al. **Khirurgiia (Mosk)** 1996;(5):61–6 (120 ref.) **(Rus)**

GASTROESOPHAGEAL REFLUX

see related
FUNDOPLICATION

Pediatric gastroesophageal reflux. Hart JJ. **Am Fam Physician** 1996 Dec;54(8):2463–72 (31 ref.)

Natural course of gastroesophageal reflux disease: 17–22 year follow-up of 60 patients. Isolauri J, et al. **Am J Gastroenterol** 1997 Jan;92(1):37–41

Common problems in pediatric gastroenterology. Squires RH Jr. **Compr Ther** 1996 Dec;22(12):767–75 (61 ref.)

The rumination syndrome: clinical and manometric profile, therapy, and long-term outcome. Soykan I, et al. **Dig Dis Sci** 1997 Sep;42(9):1866–72

Update on the pathophysiology and management of gastro-oesophageal reflux disease: the role of prokinetic therapy. Tytgat GN, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):603–11 (78 ref.)

The relation between gastro-oesophageal reflux, sleeping-position and sudden infant death and its impact on positional therapy. Vandenplas Y, et al. **Eur J Pediatr** 1997 Feb;156(2):104–6

Oesophageal reflux and asthma. Ayres JG, et al. **Eur Respir J** 1996 May;9(5):1073–8 (45 ref.)

Is the only good H. pylori a dead H. pylori? Fennerty MB. **Gastroenterology** 1996 Dec;111(6):1773–4

Laryngopharyngeal reflux: a modern day "great masquerader". Hawkins BL. **J Ky Med Assoc** 1997 Sep; 95(9):379–85 (19 ref.)

Asthma and gastroesophageal reflux. Vandenplas Y. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):89–99 (114 ref.)

Oesophageal reflux and asthma. Ayres JG. **Monaldi Arch Chest Dis** 1995 Dec;50(6):469–71 (21 ref.)

Reflux disease: the view of the internist. Hansky J. **Scand J Gastroenterol Suppl** 1996;220:63–5

Gastro-oesophageal reflux in children. Taminiau JA. **Scand J Gastroenterol Suppl** 1997;223:18–20

[Reflux disease] Lukáš K. **Cas Lek Cesk** 1997 May 29; 136(11):337–42 (37 ref.) (Eng. Abstr.) **(Cze)**

[Gastroesophageal reflux in children] Lange A, et al. **Ugeskr Laeger** 1997 Jan 27;159(5):565–7 **(Dan)**

[Summary of the updated guideline 'Gastric Complaints' of the Dutch College of General Practitioners] Thomas S, et al. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):989–92 (Eng. Abstr.) **(Dut)**

[Place of functional investigations before the surgical treatment of gastro-oesophageal reflux (editorial)] Forichon J. **Ann Chir** 1997;51(1):7–9 **(Fre)**

[A pediatric case of gastroesophageal reflux] Esquivel Ayanegui F. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S127 **(Spa)**

[Gastroesophageal reflux in children] Ramírez Mayans JA. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S111–3 **(Spa)**

CHEMICALLY INDUCED

The effect of decaffeination of coffee on gastro-oesophageal reflux in patients with reflux disease. Pehl C, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):483–6

CLASSIFICATION

Gastro-oesophageal reflux disease-spectrum or continuum?. Quigley EM. **QJM** 1997 Jan;90(1):75–8

COMPLICATIONS

The relationship between gastroesophageal reflux disease and its complications with Barrett's esophagus [see comments] Eisen GM, et al. **Am J Gastroenterol** 1997 Jan;92(1):27–31 . Comment in: Am J Gastroenterol 1997 Jan;92(1):1–3.

Exercise-induced asthma and exercise-induced gastroesophageal reflux: is there a nexus? Minocha A, et al. **Am J Gastroenterol** 1996 Dec;91(12):2628–9

GERD, DGER, or both in Barrett's esophagus? Sharma P, et al. **Am J Gastroenterol** 1997 May;92(5):903–4

Helicobacter pylori and acid peptic disorders of the esophagus: is it conceivable? Vicari J, et al. **Am J Gastroenterol** 1997 Jul;92(7):1097–102 (63 ref.)

Upper gastrointestinal motility disorders and respiratory symptoms. Schiller LR. **Am J Health Syst Pharm** 1996 Nov 15;53(22 Suppl 3):S13–6 (21 ref.)

Carcinoma of the larynx in patients with gastroesophageal reflux. Freije JE, et al. **Am J Otolaryngol** 1996 Nov–Dec; 17(6):386–90

Hiatal hernia and reflux complicating prosthetic speech. Gerwin JM, et al. **Am J Otolaryngol** 1997 Jan–Feb; 18(1):66–8

An unusual presentation in a patient with metachromatic leukodystrophy. Malde AD, et al. **Anaesthesia** 1997 Jul; 52(7):690–4

Gastroesophageal reflux disease presenting with intractable nausea. Brzana RJ, et al. **Ann Intern Med** 1997 May 1; 126(9):704–7

Gastro-oesophageal reflux and cows' milk protein allergy [letter] Milocco C, et al. **Arch Dis Child** 1997 Aug; 77(2):183–4

A study of the association between gastro-oesophageal reflux and palatal dental erosion [see comments] Bartlett DW, et al. **Br Dent J** 1996 Aug 24;181(4):125–31. Comment in: Br Dent J 1997 Mar 22;182(6):207.

The role of gastroesophageal reflux in chronic cough and asthma. Harding SM, et al. **Chest** 1997 May; 111(5):1389–402 (85 ref.)

Evaluation and management of gastroesophageal reflux and pulmonary disease. del Rosario JF, et al. **Curr Opin Pediatr** 1996 Jun;8(3):209–15 (98 ref.)

Esophageal dysmotility and gastroesophageal reflux in intrinsic asthma. Campo S, et al. **Dig Dis Sci** 1997 Jun; 42(6):1184–8

Chest pain at rest in patients with coronary artery disease. Myocardial ischemia, esophageal dysfunction, or panic disorder? Ros E, et al. **Dig Dis Sci** 1997 Jul;42(7):1344–53

Incisor teeth status in patients with reflux oesophagitis. Loffeld RJ. **Digestion** 1996 Nov–Dec;57(6):388–90

Prevalence of gastroesophageal reflux in patients who develop pneumonia following percutaneous endoscopic gastrostomy: a 24-hour pH monitoring study. Short TP, et al. **Dysphagia** 1996 Spring;11(2):87–9

Multiple recurrent laryngeal granulomas. Sataloff RT, et al. **Ear Nose Throat J** 1997 May;76(5):292

The roles of excessive gastro-oesophageal reflux, disordered oesophageal motility and decreased mucosal sensitivity in the pathogenesis of Barrett's oesophagus. Niemantsverdriet EC, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):515–9 (41 ref.)

Gastroesophageal reflux disease in patients with columnar-lined esophagus. Ter RB, et al. **Gastroenterol Clin North Am** 1997 Sep;26(3):549–63 (94 ref.)

Prevalence and clinical spectrum of gastroesophageal reflux: a population-based study in Olmsted County, Minnesota. Locke GR 3rd, et al. **Gastroenterology** 1997 May; 112(5):1448–56

Short answer in short segment Barrett's oesophagus[comment] Ireland A, et al. **Gut** 1997 Jun; 40(6):804. Comment on: Gut 1997 Jun;40(6):710–5.

The "balanced" operation for life threatening complications of severe "non responding" form of gastroesophageal reflux disease. A case report. Danis J. **Hepatogastroenterology** 1997 Jan–Feb;44(13):302–6

Association of gastroesophageal reflux (GER) with bronchial asthma. Chopra K, et al. **Indian Pediatr** 1995 Oct; 32(10):1083–6

Primary gastro-oesophageal reflux disease and irritable oesophagus syndrome as causes of recurrent abdominal pain in children. Corrado G, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):462–9

Gastroesophageal reflux and severe combined immunodeficiency. Boeck A, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):420–4

Apnea of infancy, seizures, and gastroesophageal reflux: an important but infrequent association. Tirosh E, et al. **J Child Neurol** 1996 Mar;11(2):98–100

Review: Barrett's oesophagus in Taiwan. Chen PH. **J Gastroenterol Hepatol** 1997 Jun;12(6):S19–22 (41 ref.)

Abnormal gastro-oesophageal reflux in Chinese with atypical chest pain. Lau GK, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):775–9

Automated oesophageal reflux sampler--a new device used to monitor bile acid reflux in patients with gastro-oesophageal reflux disease. Nehra D, et al. **J Med Eng Technol** 1997 Jan–Feb;21(1):1–9

"Infantile colic" as the sole manifestation of gastroesophageal reflux. Berkowitz D, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):231–3

Epigastric pain unrelieved by omeprazole. Weber L. **J Tenn Med Assoc** 1996 Mar;89(3):84–5

Gastroesophageal reflux, motility disorders, and psychological profiles in the etiology of globus pharyngis. Hill J, et al. **Laryngoscope** 1997 Oct;107(10):1373–7

Paroxysmal laryngospasm secondary to gastroesophageal reflux. Loughlin CJ, et al. **Laryngoscope** 1996 Dec;106(12 Pt 1):1502–5

Gastroesophageal reflux: a common exacerbating factor in adult asthma. Sullivan CA, et al. **Nurse Pract** 1996 Nov; 21(11):82–4, 93–4, 96 (28 ref.)

Gastroesophageal reflux and upper airway disease. Barbero GJ. **Otolaryngol Clin North Am** 1996 Feb;29(1):27–38

Otolaryngic manifestations in children presenting with apparent life-threatening events. McMurray JS, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):575–9

Association of esophageal reflux and globus symptom: comparison of laryngoscopy and 24-hour pH manometry. Woo P, et al. **Otolaryngol Head Neck Surg** 1996 Dec; 115(6):502–7

The potential role of gastroesophageal reflux in the pathogenesis of food-induced wheezing. Meer S, et al. **Pediatr Allergy Immunol** 1996 Nov;7(4):167–70

Gastroesophageal reflux in infants and children who have neurodevelopmental disabilities. Roberts KB. **Pediatr Rev** 1996 Jun;17(6):211–2

To tip or not to tip? [see comments] Phillips G. **Physiother Res Int** 1996;1(1):1–6. Comment in: Physiother Res Int 1996;1(3):209–10.

Complications of gastroesophageal reflux disease. Esophagitis, acid laryngitis, and beyond. Clark CL, et al. **Postgrad Med** 1996 Nov;100(5):95–7, 100, 106–8 passim (19 ref.)

Coronary flow reserve and oesophageal dysfunction in syndrome X. Chauhan A, et al. **Postgrad Med J** 1996 Feb; 72(844):99–104

Respiratory complications of gastroesophageal reflux disease. Siegel PD, et al. **Prim Care** 1996 Sep;23(3):433–41 (42 ref.)

Gastroesophageal reflux disease and dysphagia in children. Putnam PE. **Semin Speech Lang** 1997 Feb;18(1):25–37; quiz 38 (52 ref.)

[Relationship of asthma to gastroesophageal reflux] Vincent D. **Allerg Immunol (Paris)** 1997 Mar;29(3):63, 66–8 (Eng. Abstr.) **(Fre)**

[Gastroesophageal reflux and esophageal motility disorders in infants with vagal hyperreflectivity presenting severe syncope] Michaud L, et al. **Arch Pediatr** 1997 Feb; 4(2):133–9 (Eng. Abstr.) **(Fre)**

[Reflux causes esophageal disorders especially in the elderly (interview by Dr. rer. Nat. Anita Schweiger)] Schölmerich J. **Fortschr Med** 1997 Feb 10;115(4):33–4 **(Ger)**

[Lipid-laden alveolar macrophages as markers of gastro-esophageal reflux in pulmonary disease in childhood] Bibi H, et al. **Harefuah** 1997 Jan 1;132(1):40–2 (31 ref.) **(Heb)**

[Gastro-esophageal reflux, sleep apnea syndrome, and their association] Pillar G, et al. **Harefuah** 1996 Nov 1; 131(9):352–6 (42 ref.) **(Heb)**

[Surgical treatment of esophageal stenosis caused by reflux] Bonavina L, et al. **Ann Ital Chir** 1995 Sep–Oct;66(5):621–4 (Eng. Abstr.) **(Ita)**

[Gastroesophageal reflux disease and respiratory disease] Mattioli G, et al. **Ann Ital Chir** 1995 Sep–Oct;66(5):629–35 (19 ref.) (Eng. Abstr.) **(Ita)**

[A case of asthmatic patient with gastroesophageal reflux] Tanaka S, et al. **Arerugi** 1997 May;46(5):433–7 **(Jpn)**

[Chest pain of undetermined etiology--role of the esophagus] Baniukiewicz A, et al. **Pol Arch Med Wewn** 1996 Jul; 96(1):62–7 (31 ref.) **(Pol)**

[Asthma and gastroesophageal reflux. The importance of the anecdote and risks of inertia (editorial)] Ponce García J, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):165–6 **(Spa)**

[Disease caused by gastroesophageal reflux in the geriatric patient] Díaz Seoane R. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S114–5 **(Spa)**

[A geriatric case of disease caused by gastroesophageal reflux] Esquivel Rodríguez F. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S128 **(Spa)**

DIAGNOSIS

New insights into the assessment of gastro-oesophageal reflux disease. Collard JM. **Acta Chir Belg** 1996 Jul-Aug; 96(4):144-9 (34 ref.)

Gastroesophageal reflux disease in intellectually disabled individuals: leads for diagnosis and the effect of omeprazole therapy. Bohmer CJ, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1475-9

Prolonged ambulatory pH monitoring in patients with persistent gastroesophageal reflux disease symptoms: testing while on therapy identifies the need for more aggressive anti-reflux therapy [see comments] Katzka DA, et al. **Am J Gastroenterol** 1996 Oct;91(10):2110-3. Comment in: Am J Gastroenterol 1997 May;92(5):907-9.

Extraesophageal pediatric reflux: 24-hour double-probe pH monitoring of 222 children. Little JP, et al. **Ann Otol Rhinol Laryngol Suppl** 1997 Jul;169:1-16

Extraesophageal presentations of gastroesophageal reflux disease: the case for aggressive diagnosis and treatment. Richter JE. **Cleve Clin J Med** 1997 Jan;64(1):37-45

Reflux symptoms in 100 normal infants: diagnostic validity of the infant gastroesophageal reflux questionnaire. Orenstein SR, et al. **Clin Pediatr (Phila)** 1996 Dec; 35(12):607-14

Approach to the patient with unexplained chest pain. Katz PO, et al. **Compr Ther** 1997 Apr;23(4):249-53 (21 ref.)

Gastroesophageal reflux in achalasia. When is reflux really reflux? Crookes PF, et al. **Dig Dis Sci** 1997 Jul; 42(7):1354-61

Three-dimensional imaging of the lower esophageal sphincter in healthy subjects and gastroesophageal reflux. Wetscher GJ, et al. **Dig Dis Sci** 1996 Dec;41(12):2377-82

The relevance of abnormal motility patterns in intra-mural oesophageal leiomyomata. Amer KM, et al. **Eur J Cardiothorac Surg** 1996;10(8):634-40 (12 ref.)

Twenty-four-hour pH measurements in morbid obesity: effects of massive overweight, weight loss and gastric distension [see comments] Mathus-Vliegen LM, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):635-40. Comment in: Eur J Gastroenterol Hepatol 1996 Jul;8(7):625-6.

Laryngeal manifestations of gastroesophageal reflux disease: endoscopic appearance and management. Young JL, et al. **Gastrointest Endosc** 1996 Mar;43(3):225-30 (28 ref.)

Diagnostic value of histology in non-erosive gastro-oesophageal reflux disease. Schindlbeck NE, et al. **Gut** 1996 Aug;39(2):151-4

Diagnosis of reflux disease. McDougall NI. **Ir J Med Sci** 1996 Jul-Sep;165(3):185-90 (73 ref.)

Proximal oesophageal pH-metry in children with respiratory symptoms. Staiano A, et al. **Ital J Gastroenterol** 1996 Apr; 28(3):136-9

Oral regurgitation after reflux provoking meals: a possible cause of dental erosion? Bartlett DW, et al. **J Oral Rehabil** 1997 Feb;24(2):102-8

Gastroesophageal reflux in infants: evaluation of a new intraluminal impedance technique. Skopnik H, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):591-8

Esophageal pH monitoring [letter; comment] Vandenplas Y, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):337-8. Comment on: J Pediatr Gastroenterol Nutr 1994 Jul;19(1):50-7. Comment on: J Pediatr Gastroenterol Nutr 1995 Jul;21(1):87-90. Comment on: J Pediatr Gastroenterol Nutr 1995 Aug;21(2):240.

Laryngopharyngeal reflux: consensus conference report. Koufman J, et al. **J Voice** 1996 Sep;10(3):215-6

Community-based research--a framework for problem formulation: the case of upper endoscopy for gastroesophageal reflux disease. Helfand M, et al. **Med Decis Making** 1997 Jul-Sep;17(3):315-23

Pilot study of the oral omeprazole test for reflux laryngitis. Metz DC, et al. **Otolaryngol Head Neck Surg** 1997 Jan; 116(1):41-6

Association of esophageal reflux and globus symptom: comparison of laryngoscopy and 24-hour pH manometry. Woo P, et al. **Otolaryngol Head Neck Surg** 1996 Dec; 115(6):502-7

Gastroesophageal reflux in infants and children who have neurodevelopmental disabilities. Roberts KB. **Pediatr Rev** 1996 Jun;17(6):211-2

Can electrical impedance tomography be used to detect gastro-oesophageal reflux? Erol RA, et al. **Physiol Meas** 1996 Nov;17 Suppl 4A:A141-7

Reflux under the spotlight [editorial] Barnes J. **Practitioner** 1997 Mar;241(1572):109

Extraesophageal presentations of gastroesophageal reflux disease. Richter JE. **Semin Gastrointest Dis** 1997 Apr; 8(2):75-89 (92 ref.)

Twenty-four-hour ambulatory esophageal pH monitoring in the diagnosis of acid reflux-related chronic cough. Vaezi MF, et al. **South Med J** 1997 Mar;90(3):305-11

Adult rumination syndrome. al-Hadramy MS, et al. **Trop Gastroenterol** 1996 Oct-Dec;17(4):214-6

[Gastroesophageal reflux and "near miss" sudden infant death syndrome] Bendiksen A, et al. **Ugeskr Laeger** 1997 Apr 28;159(18):2717-8 (Eng. Abstr.) **(Dan)**

[The updated guideline 'Gastric complaints' of the Dutch College of General Practitioners; a reaction from a general practitioner] Hobert JA. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):980-2 (Eng. Abstr.) **(Dut)**

[The updated guideline 'Gastric complaints' o the Dutch College of General Practitioners; a reaction from a gastroenterologist] Lamers CB. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):982-3 (Eng. Abstr.) **(Dut)**

[Gastroesophageal reflux: physiopathology, diagnosis] Honein K. **J Med Liban** 1995;43(2):97-101 (18 ref.) **(Fre)**

[Scintigraphic evidence of silent aspiration after bilateral lung transplantation] Tönshoff G, et al. **Nuklearmedizin** 1996 Aug;35(4):140-2 (Eng. Abstr.) **(Ger)**

[Chronic persistent cough in general practice: diagnosis and therapy in 329 patients over the course of 2 years] Kardos P, et al. **Pneumologie** 1996 Jun;50(6):437-41 (Eng. Abstr.) **(Ger)**

["Silent" gastroesophageal reflux and upper airway pathologies in childhood] De Vita C, et al. **Acta Otorhinolaryngol Ital** 1996 Oct;16(5):407-11 (Eng. Abstr.) **(Ita)**

[Sandifer's syndrome: a rare form of torticollis in childhood. A report of a patient] Greco F, et al. **Pediatr Med Chir** 1997 May-Jun;19(3):227-30 (24 ref.) (Eng. Abstr.) **(Ita)**

[Gastroesophageal reflux in an infant (letter; comment)] Baeza Herrera C. **Gac Med Mex** 1996 Sep-Oct;132(5):561 . Comment on: Gac Med Mex 1995 Sep-Dec;131(5-6):601-3. **(Spa)**

[24-hour pH-metry in the diagnosis of acid-related diseases. Indications and usefulness] Azpiroz Vidaur F. **Gastroenterol Hepatol** 1996 Mar;19(3):178-82 (31 ref.) **(Spa)**

DRUG THERAPY

Morning or evening dosage of omeprazole for gastro-oesophageal reflux disease? [see comments] Hendel J, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):693-7. Comment in: Aliment Pharmacol Ther 1996 Jun;10(3):447-8.

Rapid symptom relief in reflux oesophagitis: a comparison of lansoprazole and omeprazole. Mee AS, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):757-63

A comparative study of cisapride and ranitidine at controlling oesophageal acid exposure in erosive oesophagitis. Pouderoux P, et al. **Aliment Pharmacol Ther** 1995 Dec; 9(6):661-6

Morning or evening dosage of omeprazole for gastro-oesophageal reflux disease? [letter; comment] Savarino V, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):447-8. Comment on: Aliment Pharmacol Ther 1995 Dec;9(6):693-7.

Sucralfate gel versus placebo in patients with non-erosive gastro-oesophageal reflux disease. Simon B, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):441-6

Clinical economics review: cost-effectiveness of treatment alternatives for gastro-oesophageal reflux disease. Sridhar S, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):865-73 (49 ref.)

Review article: controversy in the therapy of gastro-oesophageal reflux disease--long-term proton pump inhibition or laparoscopic anti-reflux surgery? Walker SJ, et al. **Aliment Pharmacol Ther** 1997 Apr; 11(2):249-60 (133 ref.)

Management of symptoms of gastroesophageal reflux disease: does endoscopy influence medical management? Ellis KK, et al. **Am J Gastroenterol** 1997 Sep;92(9):1472-4

Optimizing the pharmacology of acid control in acid-related disorders. Howden CW. **Am J Gastroenterol** 1997 Apr;92(4 Suppl):17S-19S; discussion 19S-21S (27 ref.)

Omeprazole to treat asthma? Kahrilas PJ, et al. **Am J Gastroenterol** 1996 Oct;91(10):2245-6

Prolonged ambulatory pH monitoring in patients with persistent gastroesophageal reflux disease symptoms: testing while on therapy identifies the need for more aggressive anti-reflux therapy [see comments] Katzka DA, et al. **Am J Gastroenterol** 1996 Oct;91(10):2110-3. Comment in: Am J Gastroenterol 1997 May;92(5):907-9.

Long-term management of gastroesophageal reflux disease and its complications. Richter JE. **Am J Gastroenterol** 1997 Apr;92(4 Suppl):30S-34S; discussion 34S-35S (35 ref.)

Use of prokinetic agents in special populations. Horn JR. **Am J Health Syst Pharm** 1996 Nov 15;53(22 Suppl 3):S27-9 (25 ref.)

Misdiagnosis of pancreatitis during valproate treatment in gastro-oesophageal reflux [letter] Riikonen R. **Arch Dis Child** 1996 Oct;75(4):355

Adult asthma and gastro-oesophageal reflux: the effects of omeprazole therapy on asthma. Teichtahl H, et al. **Aust N Z J Med** 1996 Oct;26(5):671-6

Pharmacokinetic optimisation in the treatment of gastro-oesophageal reflux disease. Hatlebakk JG, et al. **Clin Pharmacokinet** 1996 Nov;31(5):386-406 (131 ref.)

The triangular test to assess the efficacy of metoclopramide in gastroesophageal reflux. Bellissant E, et al. **Clin Pharmacol Ther** 1997 Mar;61(3):377-84

On-demand therapy in gastroesophageal reflux disease: a comparison of the early effects of single doses of fast-dissolving famotidine wafers and ranitidine tablets. Johannessen T, et al. **Clin Ther** 1997 Jan-Feb;19(1):73-81

Pathogenesis and treatment of acid peptic disorders: comparison of proton pump inhibitors with other antiulcer agents. Sanders SW. **Clin Ther** 1996 Jan-Feb;18(1):2-34; discussion 1 (178 ref.)

Esophagoprotective potential of cisapride. An additional benefit for gastroesophageal reflux disease. Goldin GF, et al. **Dig Dis Sci** 1997 Jul;42(7):1362-9

Effect of erythromycin on postprandial gastroesophageal reflux in reflux esophagitis. Pehl C, et al. **Dis Esophagus** 1997 Jan;10(1):34-7

Pantoprazole. A review of its pharmacological properties and therapeutic use in acid-related disorders [published errata appear in Drugs 1996 Jun;51(6):1074 and 1996 Jul;52(1):92] Fitton A, et al. **Drugs** 1996 Mar;51(3):460-82 (132 ref.)

Omeprazole works best when used properly [comment] Castell DO. **Eur J Gastroenterol Hepatol** 1996 May; 8(5):413-4. Comment on: Eur J Gastroenterol Hepatol 1996 May;8(5):417-20.

Efficacy of a pectin-based anti-reflux agent on acid reflux and recurrence of symptoms and oesophagitis in gastro-oesophageal reflux disease. Havelund T, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):509-14

Monitoring of omeprazole treatment in gastro-oesophageal reflux disease [see comments] Hendel J, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):417-20. Comment in: Eur J Gastroenterol Hepatol 1996 May;8(5):413-4.

Double blind cross-over placebo controlled study of omeprazole in the treatment of patients with reflux symptoms and physiological levels of acid reflux--the "sensitive oesophagus". Watson RG, et al. **Gut** 1997 May; 40(5):587-90

Medical Therapy of GERD: current state of the art. Johnson DA. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):135-9, 143-4, 147-8 (0 ref.)

Medical management of gastro-oesophageal reflux disease. Collins JS. **Ir J Med Sci** 1996 Jul-Sep;165(3):191-2 (14 ref.)

Effect of omeprazole on the course of associated esophagitis and laryngitis. Jaspersen D, et al. **J Gastroenterol** 1996 Dec; 31(6):765-7

Study with two prokinetics in functional dyspepsia and GORD: domperidone vs. cisapride. Halter F, et al. **J Physiol Pharmacol** 1997 Jun;48(2):185-92

Subjective, laryngoscopic, and acoustic measurements of laryngeal reflux before and after treatment with omeprazole. Shaw GY, et al. **J Voice** 1996 Dec;10(4):410-8

Medical treatment of gastroesophageal reflux disease does not prevent the development of Barrett's metaplasia and poor esophageal body motility. Wetscher GJ, et al. **Langenbecks Arch Chir** 1997;382(2):95-9

Double-blind, placebo-controlled study of ranitidine for gastroesophageal reflux symptoms during pregnancy. Larson JD, et al. **Obstet Gynecol** 1997 Jul;90(1):83-7

Gastroesophageal reflux disease. The long and the short of therapeutic options. Brady WM, et al. **Postgrad Med** 1996 Nov;100(5):76-80, 85-6, 89 (21 ref.)

Ranitidine effervescent and famotidine wafer in the relief of episodic symptoms of gastro-oesophageal reflux disease. Engzelius JM, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):513-8

Gastro-oesophageal reflux during 3 months of therapy with ranitidine in reflux oesophagitis. Hatlebakk JG, et al. **Scand J Gastroenterol** 1996 Oct;31(10):954-8

Maintenance treatment for gastro-oesophageal reflux disease. A placebo-controlled evaluation of 10 milligrams omeprazole once daily in general practice. Venables TL, et al. **Scand J Gastroenterol** 1997 Jul;32(7):627-32

Gastro-oesophageal reflux disease in The Netherlands. Results of a multicentre pH study. Smout AJ, et al. **Scand J Gastroenterol Suppl** 1996;218:10-5

Medical treatment of gastroesophageal reflux disease in the managed care environment. Fennerty MB. **Semin Gastrointest Dis** 1997 Apr;8(2):90-9

Current medical treatment and indications for surgical referral for gastroesophageal reflux disease (GERD). Katz PO, et al. **Semin Thorac Cardiovasc Surg** 1997 Apr; 9(2):169-72 (20 ref.)

Duodenal ulcer and gastroesophageal reflux disease today: long-term therapy--a sideways glance. Bardhan KD. **Yale J Biol Med** 1996 May-Jun;69(3):211-24 (87 ref.)

[Internal medicine therapy in reflux disease] Flad J. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1432-8 (Eng. Abstr.) **(Ger)**

ECONOMICS

Clinical economics review: cost-effectiveness of treatment alternatives for gastro-oesophageal reflux disease. Sridhar S, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):865-73 (49 ref.)

Cost-effective management of dyspepsia and gastroesophageal reflux disease. Steele GH. **Prim Care** 1996 Sep;23(3):561-76 (52 ref.)

Cost effectiveness of medical versus surgical treatment in patients with severe or refractory gastroesophageal reflux disease in the Netherlands. Van Den Boom G, et al. **Scand J Gastroenterol** 1996 Jan;31(1):1-9

EPIDEMIOLOGY

Prevalence of symptoms of gastroesophageal reflux during infancy. A pediatric practice-based survey. Pediatric Practice Research Group. Nelson SP, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):569-72

Prevalence of gastroesophageal reflux in patients who develop pneumonia following percutaneous endoscopic gastrostomy: a 24-hour pH monitoring study. Short TP, et al. **Dysphagia** 1996 Spring;11(2):87-9

The prevalence of gastro-oesophageal reflux disease based

on non-specific symptoms in institutionalized, intellectually disabled individuals. Böhmer CJ, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):187–90

Prevalence and clinical spectrum of gastroesophageal reflux: a population-based study in Olmsted County, Minnesota. Locke GR 3rd, et al. **Gastroenterology** 1997 May; 112(5):1448–56

Gastroesophageal reflux and severe combined immunodeficiency. Boeck A, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):420–4

Incidence of antireflux surgery in Finland 1988–1993. Influence of proton-pump inhibitors and laparoscopic technique. Viljakka M, et al. **Scand J Gastroenterol** 1997 May;32(5):415–8

ETIOLOGY

Gastroesophageal reflux following male abdominoplasty. Gilliland MD, et al. **Aesthetic Plast Surg** 1996 Nov–Dec; 20(6):527–8

Esophageal reflux after total or proximal gastrectomy in patients with adenocarcinoma of the gastric cardia. Hsu CP, et al. **Am J Gastroenterol** 1997 Aug;92(8):1347–50

Exercise-induced asthma and exercise-induced gastroesophageal reflux: is there a nexus? Minocha A, et al. **Am J Gastroenterol** 1996 Dec;91(12):2628–9

The pathogenesis of gastroesophageal reflux disease: the relationship between epithelial defense, dysmotility, and acid exposure. Orlando RC. **Am J Gastroenterol** 1997 Apr; 92(4 Suppl):3S–5S; discussion 5S–7S (12 ref.)

Cholecystectomy-induced gastroesophageal reflux: is it reduced by the laparoscopic approach? Rothwell JF, et al. **Am J Gastroenterol** 1997 Aug;92(8):1351–4

Reflux esophagitis after total gastrectomy with jejunal pouch reconstruction: comparison of long and short pouches. Tanaka T, et al. **Am J Gastroenterol** 1997 May;92(5):821–4

Laryngeal mask airway and the incidence of regurgitation during gynecological laparoscopies. Bapat PP, et al. **Anesth Analg** 1997 Jul;85(1):139–43

Role of duodenal juice in the pathogenesis of gastroesophageal reflux disease [letter; comment] Marshall R, et al. **Ann Surg** 1997 Jan;225(1):135–6. Comment on: Ann Surg 1995 Oct;222(4):525–31; discussion 531–3.

Postural drainage and gastro-oesophageal reflux in infants with cystic fibrosis. Button BM, et al. **Arch Dis Child** 1997 Feb;76(2):148–50

The effect of different types of exercise on gastro-oesophageal reflux. Yazaki E, et al. **Aust J Sci Med Sport** 1996 Dec;28(4):93–6

The effect of laparoscopic cholecystectomy on gastroduodenal reflux. Maddern GJ, et al. **Aust N Z J Surg** 1997 Oct;67(10):703–5

Effect of pneumatic dilation on gastroesophageal reflux in achalasia. Burke CA, et al. **Dig Dis Sci** 1997 May; 42(5):998–1002

Gastric pathology as an initiator and potentiator of gastroesophageal reflux disease. DeMeester TR, et al. **Dis Esophagus** 1997 Jan;10(1):1–8 (11 ref.)

Obesity and gastro-oesophageal reflux: is there a relationship? [comment] Castell DO. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):625–6. Comment on: Eur J Gastroenterol Hepatol 1996 Jul;8(7):635–40.

Vertical banded gastroplasty or gastric banding for morbid obesity: effects on gastro-oesophageal reflux. Lundell L, et al. **Eur J Surg** 1997 Jul;163(7):525–31

Mechanisms responsible for gastroesophageal reflux in children. Kawahara H, et al. **Gastroenterology** 1997 Aug; 113(2):399–408

Role of acid and duodenogastroesophageal reflux in gastroesophageal reflux disease. Vaezi MF, et al. **Gastroenterology** 1996 Nov;111(5):1192–9

Esophageal tattoo from ingested capsule [letter] Curtiss JR. **Gastrointest Endosc** 1997 Jan;45(1):111

The relationship between acid and bile reflux and symptoms in gastro-oesophageal reflux disease. Marshall RE, et al. **Gut** 1997 Feb;40(2):182–7

A porcine model of gastroesophageal reflux. Schopf BW, et al. **J Invest Surg** 1997 May–Jun;10(3):105–14

Oral regurgitation after reflux provoking meals: a possible cause of dental erosion? Bartlett DW, et al. **J Oral Rehabil** 1997 Feb;24(2):102–8

The development of gastroesophageal reflux after percutaneous endoscopic gastrostomy. Isch JA, et al. **J Pediatr Surg** 1997 Feb;32(2):321–2; discussion 322–3

Postural drainage techniques and gastro-oesophageal reflux in cystic fibrosis. Taylor CJ, et al. **Lancet** 1997 May 31; 349(9065):1567–8

Enteral feeding associated gastroesophageal reflux and aspiration pneumonia: a review. Kazi N, et al. **Nutr Rev** 1996 Oct;54(10):324–8 (59 ref.)

Regurgitation and aspiration of gastric contents in a child during general anaesthesia using the laryngeal mask airway. Ismail-Zade IA, et al. **Paediatr Anaesth** 1996;6(4):325–8

Psychosocial factors and their role in symptomatic gastroesophageal reflux disease and functional dyspepsia. Wiklund I, et al. **Scand J Gastroenterol Suppl** 1996; 220:94–100 (68 ref.)

[The effect of lumbar relief orthoses with abdominal compression on esophago-gastrointestinal motility] Pfaffenbach B, et al. **Dtsch Med Wochenschr** 1996 Dec 20; 121(51–52):1592–7 (Eng. Abstr.) **(Ger)**

[Motility deficits in Roux-loop gastrojejunal reconstruction after the surgical treatment of reflux diseases (the Roux stasis syndrome)] Mateş IN, et al. **Chirurgia (Bucur)** 1997 May–Jun;92(3):187–98 (50 ref.) (Eng. Abstr.) **(Rum)**

[Gastroesophageal reflux disease (its pathogenesis, diagnosis and treatment)] Kalinin AV. **Ter Arkh** 1996;68(8):71–5 **(Rus)**

[Gastroesophageal reflux, pulmonary and gastric function in patients with cystic fibrosis. Results of a randomized trial] Escobar Castro H, et al. **Acta Gastroenterol Latinoam** 1996; 26(3):183–6 (Eng. Abstr.) **(Spa)**

[Gastric emptying as an etiopathogenic factor in gastroesophageal reflux disease] Polonio García MJ, et al. **An Med Interna** 1996 Jul;13(7):331–5 (Eng. Abstr.) **(Spa)**

[Gastroesophageal reflux and ventilation with continuous positive pressure. Experimental study] Eizaguirre I, et al. **Cir Pediatr** 1996 Jan;9(1):25–7 (Eng. Abstr.) **(Spa)**

GENETICS

A cystic fibrosis patient homozygous for 621 + 1G-->T mutation has a severe pulmonary disease, mild pancreatic insufficiency and a gastro-esophageal reflux. Witt M, et al. **Clin Genet** 1996 Sep;50(3):149–51

Familial hiatus hernia and gastro-oesophageal reflux. Chana J, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):175–6

METABOLISM

Relationship between acid neutralization capacity of saliva and gastro-oesophageal reflux. Bouchoucha M, et al. **Arch Physiol Biochem** 1997 Feb;105(1):19–26

Characterization of acid and alkaline reflux in patients with Barrett's esophagus. G.O.S.P.E. Operative Group for the study of Esophageal Precancer. D'Onofrio V, et al. **Dis Esophagus** 1997 Jan;10(1):16–22; discussion 22–3

Assessment of non-acid esophageal reflux: comparison between long-term reflux aspiration test and fiberoptic bilirubin monitoring. Stipa F, et al. **Dis Esophagus** 1997 Jan;10(1):24–8

Objective determination of pH thresholds in the analysis of 24 h ambulatory oesophageal pH monitoring. Weusten BL, et al. **Eur J Clin Invest** 1996 Feb;26(2):151–8

MICROBIOLOGY

Helicobacter pylori and acid peptic disorders of the esophagus: is it conceivable? Vicari J, et al. **Am J Gastroenterol** 1997 Jul;92(7):1097–102 (63 ref.)

Mutans streptococcal serotypes in children with gastroesophageal reflux disease. Hölttä P, et al. **ASDC J Dent Child** 1997 May–Jun;64(3):201–4, 228

Prevalence of Helicobacter pylori infection in 190 control subjects and in 236 patients with gastroesophageal reflux, erosive esophagitis or Barrett's esophagus. Csendes A, et al. **Dis Esophagus** 1997 Jan;10(1):38–42

Evaluation of Helicobacter pylori in reflux oesophagitis and Barrett's oesophagus. Newton M, et al. **Gut** 1997 Jan; 40(1):9–13

PATHOLOGY

Dilated intercellular spaces: a morphological feature of acid reflux--damaged human esophageal epithelium. Tobey NA, et al. **Gastroenterology** 1996 Nov;111(5):1200–5

Endoscopic evaluation of the postoperative stomach. Mellinger JD, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):621–39 (59 ref.)

Is columnar lined esophagus and Barrett's esophagus two names of a single entity? Qureshi H, et al. **JPMA J Pak Med Assoc** 1996 Oct;46(10):239–41 (52 ref.)

PHYSIOPATHOLOGY

Mechanisms of acid clearance in reflux patients [letter; comment] Anggiansah A, et al. **Am J Gastroenterol** 1997 Jul;92(7):1237–8. Comment on: Am J Gastroenterol 1996 Sep;91(9):1739–44.

Gastric electrical dysrhythmias and delayed gastric emptying in gastroesophageal reflux disease [see comments] Cucchiara S, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1103–8. Comment in: Am J Gastroenterol 1997 Jul;92(7):1077–8.

Delayed gastric emptying in reflux patients: to be or not to be? [editorial; comment] Richter JE. **Am J Gastroenterol** 1997 Jul;92(7):1077–8. Comment on: Am J Gastroenterol 1997 Jul;92(7):1103–8.

A prospective assessment of gastroesophageal reflux before and after treatment of achalasia patients: pneumatic dilation versus transthoracic limited myotomy [see comments] Shoenut JP, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1109–12. Comment in: Am J Gastroenterol 1997 Jul;92(7):1078–9.

Gastric emptying in patients with gastroesophageal reflux disease [letter; comment] Urbain D, et al. **Am J Gastroenterol** 1997 Apr;92(4):724. Comment on: Am J Gastroenterol 1996 Jul;91(7):1351–4.

Reproducibility of proximal probe pH parameters in 24-hour ambulatory esophageal pH monitoring. Vaezi MF, et al. **Am J Gastroenterol** 1997 May;92(5):825–9

Influence of pathophysiology, severity, and cost on the medical management of gastroesophageal reflux disease. Reynolds JC. **Am J Health Syst Pharm** 1996 Nov 15;53(22 Suppl 3):S5–12 (81 ref.)

Frequency of gastroesophageal reflux events induced by pharyngeal water stimulation in young and elderly subjects. Xie P, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G233–7

Gastric emptying and gastro-oesophageal reflux in preterm infants. Ewer AK, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F117–21

Oesophageal and cardia function in patients with paraoesophageal hiatus hernia. Zaninotto G, et al. **Br J Surg** 1997 Aug;84(8):1163–7

Autonomic regulation in asthmatics with gastroesophageal reflux [see comments] Lodi U, et al. **Chest** 1997 Jan; 111(1):65–70. Comment in: Chest 1997 Jan;111(1):8–11.

Vagotonia and bronchial asthma [editorial; comment] Szentivaneji A, et al. **Chest** 1997 Jan;111(1):8–11. Comment on: Chest 1997 Jan;111(1):65–70.

Reflux symptoms in 100 normal infants: diagnostic validity of the infant gastroesophageal reflux questionnaire. Orenstein SR, et al. **Clin Pediatr (Phila)** 1996 Dec; 35(12):607–14

Effect of antireflux medication on salivary drooling in children with cerebral palsy. Heine RG, et al. **Dev Med Child Neurol** 1996 Nov;38(11):1030–6

Eicosanoids and the esophagus. Long JD, et al. **Dig Dis** 1997 May–Jun;15(3):145–54 (47 ref.)

Contributing role of motility abnormalities in the pathogenesis of gastroesophageal reflux disease. Parkman HP, et al. **Dig Dis** 1997;15 Suppl 1:40–52 (81 ref.)

Effects of omeprazole on mechanisms of gastroesophageal reflux in childhood. Cucchiara S, et al. **Dig Dis Sci** 1997 Feb;42(2):293–9

Lower esophageal sphincter or upper gastric sphincter? Castell DO, et al. **Dis Esophagus** 1997 Apr;10(2):119–20

Lower esophageal sphincter as an anti-reflux barrier: a review. McBride PJ, et al. **Dis Esophagus** 1997 Apr; 10(2):101–4 (35 ref.)

Oesophageal sensitivity to acid in patients with non-cardiac chest pain: is the oesophagus hypersensitive? Galmiche JP, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1152–9 (60 ref.)

Analysis of 24-h oesophageal pH and pressure recordings. Weusten BL, et al. **Eur J Gastroenterol Hepatol** 1995 Dec; 7(12):1147–51 (23 ref.)

Speed of healing and symptom relief in grade II to IV gastroesophageal reflux disease: a meta-analysis. Chiba N, et al. **Gastroenterology** 1997 Jun;112(6):1798–810

Mechanisms responsible for gastroesophageal reflux in children. Kawahara H, et al. **Gastroenterology** 1997 Aug; 113(2):399–408

Effect of morphine on gastroesophageal reflux and transient lower esophageal sphincter relaxation. Penagini R, et al. **Gastroenterology** 1997 Aug;113(2):409–14

Saliva and esophagoprotection [letter; comment] Piotrowski J. **Gastroenterology** 1996 Sep;111(3):834–7. Comment on: Gastroenterology 1996 Mar;110(3):675–81.

Delayed gastric emptying in an infant with Sandifer syndrome. Cardi E, et al. **Ital J Gastroenterol** 1996 Dec; 28(9):518–9

Gastroesophageal reflux: a determinant in the outcome of caustic esophageal burns. Mutaf O, et al. **J Pediatr Surg** 1996 Nov;31(11):1494–5

Subjective, laryngoscopic, and acoustic measurements of laryngeal reflux before and after treatment with omeprazole. Shaw GY, et al. **J Voice** 1996 Dec;10(4):410–8

Rumination syndrome. Malcolm A, et al. **Mayo Clin Proc** 1997 Jul;72(7):646–52 (23 ref.)

The esophagogastric junction. Mittal RK, et al. **N Engl J Med** 1997 Mar 27;336(13):924–32 (54 ref.)

Motor events underlying gastro-oesophageal reflux in ambulant patients with reflux oesophagitis. Penagini R, et al. **Neurogastroenterol Motil** 1996 Jun;8(2):131–41

Pathophysiology in gastroesophageal reflux disease: the surgeon's view. Hallerbäck B, et al. **Scand J Gastroenterol Suppl** 1996;220:60–2

Current role of esophageal function studies. Cooper JD. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):157–62 (7 ref.)

Long-term effects of repeated injection sclerotherapy on esophageal motility and mucosa. Isaksson B, et al. **Surg Endosc** 1997 Jun;11(6):663–7

[24-hour esophageal pH in children] Lange A, et al. **Ugeskr Laeger** 1997 Jan 27;159(5):582–4 (Eng. Abstr.) **(Dan)**

[Gastroesophageal reflux: physiopathology, diagnosis] Honein K. **J Med Liban** 1995;43(2):97–101 (18 ref.) **(Fre)**

[Sleep, breathing and gastroesophageal reflux] Rasche K, et al. **Dtsch Med Wochenschr** 1997 May 16;122(20):659–63 (46 ref.) **(Ger)**

[Gastroesophageal reflux and involvement of the airways] Micklefield GH, et al. **Pneumologie** 1996 Jun;50(6):430–6 (80 ref.) **(Ger)**

[Lower esophageal sphincter function in gastroesophageal reflux] Amano S, et al. **J Smooth Muscle Res** 1995 Dec; 31(6):349–51 **(Jpn)**

[Function of the esophagus and stomach in gastroesophageal reflux] Asano K, et al. **J Smooth Muscle Res** 1995 Dec; 31(6):351–4 **(Jpn)**

[A study of gastroesophageal reflux by 24-hour esophageal pH monitoring in patients with bronchial asthma] Suzuki J, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):519–25 (Eng. Abstr.) **(Jpn)**

[Physiopathologic features of gastroesophageal reflux in children] Goldani HA, et al. **Arq Gastroenterol** 1996 Apr–Jun;33(2):102–14 (157 ref.) (Eng. Abstr.) **(Por)**

PREVENTION & CONTROL

Cricoid pressure--one or two hands? [letter; comment] Adams AP, et al. **Anaesthesia** 1996 Oct;51(10):986-7. Comment on: Anaesthesia 1996 Apr;51(4):365-8.

Cricoid pressure--are two hand better than one? [letter; comment] Asai T, et al. **Anaesthesia** 1997 Feb;52(2):180-1 . Comment on: Anaesthesia 1996 Sep;51(9):888.

Cricoid pressure--are two hands better than one? [letter] Cook TM, et al. **Anaesthesia** 1997 Feb;52(2):179-80

Cricoid pressure: are two hands better than one? [letter; comment] Cook TM. **Anaesthesia** 1997 Jan;52(1):85-6. Comment on: Anaesthesia 1996 Sep;5199):888.

Bimanual cricoid pressure [letter; comment] [see comments] Pennant JH, et al. **Anaesthesia** 1996 Sep;51(9):888. Comment on: Anaesthesia 1996 Apr;51(4):365-8. Comment in: Anaesthesia 1997 Jan;52(1):85-6. Comment in: Anaesthesia 1997 Feb;52(2):180-1.

Posture and gastro-oesophageal reflux: a case for left lateral positioning. Tobin JM, et al. **Arch Dis Child** 1997 Mar; 76(3):254-8

Use of a mechanical simulator for training in applying cricoid pressure. Ashurst N, et al. **Br J Anaesth** 1996 Oct; 77(4):468-72

Adenocarcinoma of the esophagus: preventable but at what cost? [editorial; comment] DeVault KR. **Dig Dis** 1996 Jul-Aug;14(4):211-2. Comment on: Dig Dis 1996 Jul-Aug;14(4):213-27.

Gastroesophageal reflux in obese patients is not reduced by weight reduction. Kjellin A, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1047-51

[Esophageal pH-metry. Evaluation of prescriptions at the Robert-Debré Hospital (Paris)] Rachou E, et al. **Presse Med** 1997 May 24;26(17):801-4 (Eng. Abstr.) **(Fre)**

[Non-reflux esophago-gastric anastomosis] Bulynin VI, et al. **Khirurgiia (Mosk)** 1997;(6):64-5 (Eng. Abstr.) **(Rus)**

[A method for an areflux gastroduodenal anastomosis in the surgery of peptic ulcer of the duodenal bulb] Zherlov GK, et al. **Vestn Khir Im I I Grek** 1997;156(3):57-60 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

The illness behavior of patients with gastroesophageal reflux disease with and without endoscopic esophagitis. Tew S, et al. **Dis Esophagus** 1997 Jan;10(1):9-15

Illness behavior influences the outcome of laparoscopic antireflux surgery. Watson DI, et al. **J Am Coll Surg** 1997 Jan;184(1):44-8

RADIOGRAPHY

Massive bronchoalveolar aspiration of barium sulfate during a radiologic study of the upper digestive tract [letter] López-Castilla JD, et al. **Pediatr Pulmonol** 1997 Aug; 24(2):126-7

[Radiologic functional diagnosis of the esophagus in gastroesophageal reflux] Wuttge-Hannig A. **Rontgenpraxis** 1996 Feb;49(2):27-30 **(Ger)**

RADIONUCLIDE IMAGING

Gastric emptying of milk feedings in infants and children. Anterior versus conjugate counting. Heyman S, et al. **Clin Nucl Med** 1997 May;22(5):303-5

REHABILITATION

Rigorous objectivity and clinical experience [letter; comment] Hough A. **Physiother Res Int** 1996;1(3):209-10 . Comment on: Physiother Res Int 1996;1(1):1-6.

SURGERY

Clinical economics review: the health-care economic implications of minimal access gastrointestinal surgery. Guillou PJ, et al. **Aliment Pharmacol Ther** 1996 Oct; 10(5):707-13 (32 ref.)

Review article: controversy in the therapy of gastro-oesophageal reflux disease--long-term proton pump inhibition or laparoscopic anti-reflux surgery? Walker SJ, et al. **Aliment Pharmacol Ther** 1997 Apr; 11(2):249-60 (133 ref.)

The "long-term" follow-up of laparoscopic fundoplication: an evolving perspective. Gadenstätter M. **Am J Gastroenterol** 1996 Nov;91(11):2445-6

Equality of efficacy for open and laparoscopic antireflux repair? Nehra D. **Am J Gastroenterol** 1997 Jul;92(7):1235-6

Prospective clinical and manometric assessment of Hill's modified laparoscopic operation [letter] Quinton JF, et al. **Am J Gastroenterol** 1997 Mar;92(3):546

Laparoscopic Hill repair in patients with abnormal motility. Aye RW, et al. **Am J Surg** 1997 May;173(5):379-82

Parietal cell vagotomy performed with fundoplication for esophageal reflux. Jordan PH Jr, et al. **Am J Surg** 1997 Apr;173(4):264-9

Comparison of total versus partial laparoscopic fundoplication in the management of gastroesophageal reflux disease. Karim SS, et al. **Am J Surg** 1997 May; 173(5):375-8

An objective assessment of laparoscopic antireflux surgery. Sataloff DM, et al. **Am J Surg** 1997 Jul;174(1):63-7

Laparoscopic treatment of gastroesophageal reflux disease. Alexander HC, et al. **Am Surg** 1997 May;63(5):434-40

Simultaneous correction of malrotation and gastroesophageal reflux in infants. Chung C, et al. **Am Surg** 1996 Oct; 62(10):800-2

Laparoscopic Nissen fundoplication and postoperative dysphagia-can it be predicted? Gotley DC, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):646-9

Laparoscopic Nissen fundoplication for hiatus hernia: a case report. Teh CH, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):717-9

A randomized, prospective comparison of the Nissen fundoplication versus the Toupet fundoplication for gastroesophageal reflux disease. Laws HL, et al. **Ann Surg** 1997 Jun;225(6):647-53; discussion 654

Tension-free fundoplication can be performed without greater curvature mobilization [letter; comment] Yvergneaux JP, et al. **Ann Surg** 1997 Jul;226(1):109-10. Comment on: Ann Surg 1996 Jul;224(1):51-7.

Belsey Mark IV antireflux procedure for complicated gastroesophageal reflux disease. Fenton KN, et al. **Ann Thorac Surg** 1997 Sep;64(3):790-4

Re-operation for failed anti-reflux surgery. Lim JK, et al. **Aust N Z J Surg** 1996 Nov;66(11):731-3

Fundoplication in children: experience with 106 cases. Spillane AJ, et al. **Aust N Z J Surg** 1996 Nov;66(11):753-6

Conversion operation for alkaline reflux after total gastrectomy and Schloffer reconstruction [letter; comment] Grabham JA, et al. **Br J Surg** 1996 Oct;83(10):1482; discussion 1483. Comment on: Br J Surg 1996 Feb;83(2):270-1.

Effect of fundoplication on transient lower oesophageal sphincter relaxation and gas reflux. Johnsson F, et al. **Br J Surg** 1997 May;84(5):686-9

Long-term results of a prospective randomized comparison of total fundic wrap (Nissen-Rossetti) or semifundoplication (Toupet) for gastro-oesophageal reflux [letter; comment] Katkhouda N. **Br J Surg** 1997 Feb; 84(2):281. Comment on: Br J Surg 1996 Jun;83(6):830-5.

Conversion operation for alkaline reflux after total gastrectomy and Schloffer reconstruction [letter; comment] Kiss J, et al. **Br J Surg** 1996 Oct;83(10):1482-3. Comment on: Br J Surg 1996 Feb;83(2):270-1.

Oesophageal function testing and antireflux surgery. McLauchlan G. **Br J Surg** 1996 Dec;83(12):1684-8 (77 ref.)

Long-term results of the Angelchik prosthesis for gastro-oesophageal reflux. Maxwell-Armstrong CA, et al. **Br J Surg** 1997 Jun;84(6):862-4

Evaluation of the antireflux mechanism following laparoscopic fundoplication. Pursnani KG, et al. **Br J Surg** 1997 Aug;84(8):1157-61

Surgical management of gastro-oesophageal reflux disease. Watson A. **Br J Surg** 1996 Oct;83(10):1313-5 (11 ref.)

Laparoscopic surgery for gastro-oesophageal reflux: beyond the learning curve. Watson DI, et al. **Br J Surg** 1996 Sep; 83(9):1284-7

Pitfalls and complications of antireflux surgery. Nissen and Collis-Nissen techniques. Ferguson MK. **Chest Surg Clin N Am** 1997 Aug;7(3):489-509; discussion 510-1 (85 ref.)

Complications and pitfalls: Belsey and Collis-Belsey antireflux repairs. Pearson FG. **Chest Surg Clin N Am** 1997 Aug;7(3):513-32 (3 ref.)

Percutaneous endoscopic gastrostomy without an antireflux procedure in neurologically disabled children. Borowitz SM, et al. **Clin Pediatr (Phila)** 1997 Jan;36(1):25-9

Indications, benefits and outcome of laparoscopic Nissen fundoplication [see comments] Peters JH, et al. **Dig Dis** 1996 May-Jun;14(3):169-79 (35 ref.). Comment in: Dig Dis 1996 May-Jun;14(3):129-31.

Menu for successful antireflux surgery [editorial; comment] Richter JE. **Dig Dis** 1996 May-Jun;14(3):129-31. Comment on: Dig Dis 1996 May-Jun;14(3):169-79.

Mechanical effect of the Angelchik prosthesis on the competency of the gastric cardia: pathophysiologic implications and surgical perspectives. Bonavina L, et al. **Dis Esophagus** 1997 Apr;10(2):115-8

Comparison of anterior, posterior and total fundoplication using a viscera model. Watson DI, et al. **Dis Esophagus** 1997 Apr;10(2):110-4

Current status and trends in laparoscopic antireflux surgery: results of a consensus meeting. The European Study Group for Antireflux Surgery (ESGARS). Fuchs KH, et al. **Endoscopy** 1997 May;29(4):298-308 (77 ref.)

Reoperation after failed antireflex surgery. Review of 101 cases. Ellis FH Jr, et al. **Eur J Cardiothorac Surg** 1996; 10(4):225-31; discussion 231-2

Gastric outlet obstruction due to starch granuloma and peritonitis. Steiner Z, et al. **Eur J Pediatr Surg** 1996 Dec; 6(6):364-6

The surgical management of Barrett's esophagus. Peters JH. **Gastroenterol Clin North Am** 1997 Sep;26(3):647-68 (53 ref.)

Laparoscopic Nissen fundoplication for severe gastroesophageal reflux disease: pros and cons. DeMaria EJ, et al. **Gastroenterologist** 1997 Mar;5(1):85-93 (27 ref.)

Antireflux operations at flexible endoscopy using endoluminal stitching techniques: an experimental study. Kadirkamanathan SS, et al. **Gastrointest Endosc** 1996 Aug; 44(2):133-43

A new intraluminal antigastroesophageal reflux procedure in baboons. Mason RJ, et al. **Gastrointest Endosc** 1997 Mar; 45(3):283-90

Laparoscopic surgery for gastro-oesophageal reflux disease. Alderson D, et al. **Gut** 1997 May;40(5):565-7

Outcome of laparoscopic Nissen fundoplication in patients with disordered preoperative peristalsis. Baigrie RJ, et al. **Gut** 1997 Mar;40(3):381-5

Does oesophageal motor function improve with time after successful antireflux surgery? Results of a prospective, randomised clinical study. Rydberg L, et al. **Gut** 1997 Jul; 41(1):82-6

Laparoscopic Nissen fundoplication: laparoscopic dissection technique and results. Cadiere GB, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):4-10

Modified Hill operation vs. Nissen fundoplication in the surgical treatment of gastro-esophageal reflux disease. Civello IM, et al. **Hepatogastroenterology** 1997 Mar-Apr; 44(14):380-6

Laparoscopic re-operation from gastro-oesophageal reflux. Croce E, et al. **Hepatogastroenterology** 1997 May-Jun; 44(15):912-7

The "balanced" operation for life threatening complications of severe "non responding" form of gastroesophageal reflux disease. A case report. Danis J. **Hepatogastroenterology** 1997 Jan-Feb;44(13):302-6

One year follow-up results in the surgical treatment of gastroesophageal reflux disease. Nano M, et al. **Int Surg** 1996 Jan-Mar;81(1):27-31

The surgery of complicated gastro-oesophageal reflux. O'Sullivan GC, et al. **Ir J Med Sci** 1996 Jul-Sep; 165(3):193-9 (32 ref.)

Function of pediatric Nissen-Rossetti fundoplication followed up into adolescence and adulthood. Bergmeijer JH, et al. **J Am Coll Surg** 1997 Mar;184(3):259-61

Safe insertion of the bougie for esophageal surgery [letter] Thangathurai D, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):125-6

Breakdown of gastric staple line as a complication of the uncut Collis-Nissen fundoplication in children. Liacouras CA, et al. **J Clin Gastroenterol** 1996 Oct;23(3):174-6

Laparoscopic fundoplication in children: our first 30 cases. Longis B, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S21-9

Laparoscopic fundoplication. Medina LT, et al. **J Laparoendosc Surg** 1996 Aug;6(4):219-26

Laparoscopic posterior partial fundoplication: analysis of 100 consecutive cases. O'Reilly MJ, et al. **J Laparoendosc Surg** 1996 Jun;6(3):141-50

Laparoscopic Nissen fundoplication in the infant. Thompson WR, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S5-7

Incisional hernia in a 5-mm trocar site following pediatric laparoscopy. Waldhaussen JH. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S89-90

The uncut Collis-Nissen fundoplication: results for 79 consecutively treated high-risk children. Cameron BH, et al. **J Pediatr Surg** 1997 Jun;32(6):887-91

Laparoscopic thal fundoplication with gastrostomy in children. Martinez-Frontanilla LA, et al. **J Pediatr Surg** 1996 Feb;31(2):275-6

The learning curve associated with laparoscopic antireflux surgery in infants and children. Meehan JJ, et al. **J Pediatr Surg** 1997 Mar;32(3):426-9

A comparison of the efficacy of pyloromyotomy and pyloroplasty in patients with gastroesophageal reflux and delayed gastric emptying. Okuyama H, et al. **J Pediatr Surg** 1997 Feb;32(2):316-9; discussion 319-20

Modified Nissen fundoplication for reduction of fundoplication failure. Price MR, et al. **J Pediatr Surg** 1997 Feb;32(2):324-6; discussion 326-7

Thal fundoplication in neurologically impaired children. Ramachandran V, et al. **J Pediatr Surg** 1996 Jun; 31(6):819-22

Efficacy of partial wrap fundoplication for gastroesophageal reflux after repair of esophageal atresia. Snyder CL, et al. **J Pediatr Surg** 1997 Jul;32(7):1089-91; discussion 1092

Laparoscopic-modified Nissen fundoplication in children with familial dysautonomia. Szold A, et al. **J Pediatr Surg** 1996 Nov;31(11):1560-2

Long-term results after reoperation for failed antireflux procedures. Deschamps C, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):545-50; discussion 550-1

The surgical treatment of complex gastroesophageal reflux disease. Gaissert HA. **Med Health R I** 1997 Jul;80(7):219-22 (18 ref.)

Quality of life assessment after laparoscopic and open fundoplications. Results of a prospective, clinical study. Blomqvist A, et al. **Scand J Gastroenterol** 1996 Nov; 31(11):1052-8

Laparoscopic antireflux surgery. Richardson WS, et al. **Semin Gastrointest Dis** 1997 Apr;8(2):100-10 (83 ref.)

Hiatus hernia and gastroesophageal reflux: indications for surgery and selection of operation. Pearson FG. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):163-8

Laparoscopic antireflux surgery. Rice TW, et al. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):173-87 (40 ref.)

Laparoscopic antireflux surgery for gastroesophageal reflux disease (GERD). Results of a Consensus Development Conference. Held at the Fourth International Congress of the European Association for Endoscopic Surgery (E.A.E.S.), Trondheim, Norway, June 21-24, 1996. **Surg Endosc** 1997 May;11(5):413-26 (284 ref.)

Immediate and delayed effects of laparoscopic Nissen fundoplication on pulmonary function. Anvari M, et al.

Surg Endosc 1996 Dec;10(12):1171–5

Laparoscopic partial fundoplication vs laparoscopic Nissen–Rosetti fundoplication. Short–term results of 231 cases [see comments] Coster DD, et al. **Surg Endosc** 1997 Jun;11(6):625–31. Comment in: Surg Endosc 1997 Jun;11(6):613–4.

Complete and partial laparoscopic fundoplication for gastroesophageal reflux disease [editorial; comment] Crookes PF, et al. **Surg Endosc** 1997 Jun;11(6):613–4. Comment on: Surg Endosc 1997 Jun;11(6):625–31.

Prosthetic reinforcement of posterior cruroplasty during laparoscopic hiatal herniorrhaphy. Frantzides CT, et al. **Surg Endosc** 1997 Jul;11(7):769–71

Laparoscopic fundoplication in infants and children. Meehan JJ, et al. **Surg Endosc** 1996 Dec;10(12):1154–7

Partial fundoplication for gastroesophageal reflux. Patti MG, et al. **Surg Endosc** 1997 May;11(5):445–8

Nissen and Toupet fundoplications effectively inhibit gastroesophageal reflux irrespective of natural anatomy and function. Richardson WS, et al. **Surg Endosc** 1997 Mar;11(3):261–3

The influence of surgical technique on clinical outcome of laparoscopic Nissen fundoplication. Wu JS, et al. **Surg Endosc** 1996 Dec;10(12):1164–69; discussion 1169–70

Prospective evaluation of dysphagia before and after laparoscopic Nissen fundoplication without routine division of short gastrics. Anvari M, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):424–9

Laparoscopic Nissen fundoplication for gastroesophageal reflux disease: clinical experience and outcome in first 100 patients. Cattey RP, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):430–3

Gastroesophageal reflux: conventional surgical treatment versus laparoscopy. A prospective study of 61 cases. Champault G, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):434–40

Complications of laparoscopic fundoplication: the first 100 patients. Munro W, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):421–3

Laparoscopic management of failed antireflux surgery. O'Reilly MJ, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):90–3

Laparoscopic Nissen fundoplication: where do we stand? Perdikis G, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):17–21

Laparoscopic operation for treatment of gastroesophageal reflux. Sinanan M, et al. **West J Med** 1996 Feb;164(2):163

Laparoscopic highly selective vagotomy: technical considerations and preliminary results in 119 patients with duodenal ulcer or gastroesophageal reflux disease. Awad W, et al. **World J Surg** 1997 Mar–Apr;21(3):261–8; discussion 268–9

Tailored antireflux surgery for gastroesophageal reflux disease: effectiveness and risk of postoperative dysphagia. Wetscher GJ, et al. **World J Surg** 1997 Jul–Aug;21(6):605–10

Laparoscopic fundoplication: the alternative to long–term medical therapy for severe gastroesophageal reflux disease. Perdikis G, et al. **Yale J Biol Med** 1996 May–Jun;69(3):283–8 (29 ref.)

[The laparoscopic fundoplication technique and postoperative complications] Drahoňovský V, et al. **Rozhl Chir** 1997 Mar;76(3):138–43 (Eng. Abstr.) **(Cze)**

[Safe preparation of the hiatus––conditio sine qua non] Kmet L, et al. **Rozhl Chir** 1997 Mar;76(3):144–6 (Eng. Abstr.) **(Cze)**

[Reoperation after gastroesophageal reflux surgery] Pafko P, et al. **Rozhl Chir** 1996 May;75(5):230–3 (Eng. Abstr.) **(Cze)**

[Laparoscopic fundoplication in gastroesophageal reflux] Jensen PM, et al. **Ugeskr Laeger** 1997 Jan 27;159(5):577–81 (Eng. Abstr.) **(Dan)**

[The surgeon's viewpoint on studies needed before treating esophageal reflux (editorial)] Fékété F, et al. **Ann Chir** 1997;51(3):207–11 **(Fre)**

[Reoperations for persistent or recurrent gastroesophageal reflux after surgical treatment] Ribet M, et al. **Chirurgie** 1997 Jan;121(9–10):625–9; discussion 629–30 (Eng. Abstr.) **(Fre)**

[Esophageal and cardial risk of treating gastroesophageal reflux by laparoscopic surgery] Vayre P. **Chirurgie** 1997 Jan;121(9–10):636–41; discussion 641–2 (16 ref.) (Eng. Abstr.) **(Fre)**

[Simplified laparoscopic surgery in reflux disease by a modified polyglactin scarf] Willmen HR. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:614–6 (Eng. Abstr.) **(Ger)**

[Surgical treatment of acid gastroesophageal reflux] Ancona E, et al. **Ann Ital Chir** 1995 Sep–Oct;66(5):597–605 (52 ref.) (Eng. Abstr.) **(Ita)**

[New directions in the surgical treatment of gastroesophageal reflux. Review of the literature] Bresadola V, et al. **Ann Ital Chir** 1997 Mar–Apr;68(2):213–8 (42 ref.) (Eng. Abstr.) **(Ita)**

[Surgical treatment of recurrent gastroesophageal reflux] Iascone C, et al. **Ann Ital Chir** 1995 Sep–Oct;66(5):615–20 (22 ref.) (Eng. Abstr.) **(Ita)**

[Rationale of the surgical treatment of duodenogastroesophageal reflux] Pandolfo N, et al. **Ann Ital Chir** 1995 Sep–Oct;66(5):607–13 (Eng. Abstr.) **(Ita)**

[Treatment of esophageal reflux by insertion of Angelchik prosthesis: analysis of the follow–up in 26 patients] Franchello A, et al. **Minerva Chir** 1996 May;51(5):273–8 (Eng. Abstr.) **(Ita)**

[Gastroesophageal reflux in children. Surgical treatment by the Nissen's technique] Capella MR, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):337–42 (Eng. Abstr.) **(Por)**

[Effects of diaphragmatic plication in the antireflux barrier in rats] Soto C, et al. **Cir Pediatr** 1996 Oct;9(4):149–53 (Eng. Abstr.) **(Spa)**

[Analysis of surgery of gastroesophageal reflux by laparotomy and laparoscopy approach] Rey Moreno A, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):247–51 (Eng. Abstr.) **(Spa)**

[Gastroesophageal reflux: conventional or laparoscopic fundoplication?] Csendes A. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S17–9 **(Spa)**

[Subjective and objective evaluation of the results of laparoscopic antireflux surgery in patients with gastroesophageal reflux] Csendes A, et al. **Rev Med Chil** 1996 Sep;124(9):1077–85 (Eng. Abstr.) **(Spa)**

THERAPY

Current concepts and issues in the management of regurgitation of infants: a reappraisal. Management guidelines from a working party. Vandenplas Y, et al. **Acta Paediatr** 1996 May;85(5):531–4 (34 ref.)

Contemporary medical therapy for gastroesophageal reflux disease. Fass R, et al. **Am Fam Physician** 1997 Jan;55(1):205–12, 217–8 (46 ref.)

Influence of pathophysiology, severity, and cost on the medical management of gastroesophageal reflux disease. Reynolds JC. **Am J Health Syst Pharm** 1996 Nov 15;53(22 Suppl 3):S5–12 (81 ref.)

Gastroesophageal reflux disease. Current strategies for patient management. Castell DO, et al. **Arch Fam Med** 1996 Apr;5(4):221–7 (51 ref.)

The diagnosis and treatment of gastroesophageal reflux disease in a managed care environment. A surgeon's response. Crookes PF, et al. **Arch Surg** 1996 Oct;131(10):1021–3

A critical appraisal of current management practices for infant regurgitation. Vandenplas Y. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 May–Jun;38(3):187–202 (136 ref.)

Successful retrograde dilation and oesophageal conservation after failed antegrade management of a reflux stricture. O'Sullivan GC, et al. **Endoscopy** 1997 Feb;29(2):141

A critical appraisal of current management practices for infant regurgitation––recommendations of a working party. Vandenplas Y, et al. **Eur J Pediatr** 1997 May;156(5):343–57 (142 ref.)

Ablative therapies for the columnar–lined esophagus. Sampliner RE. **Gastroenterol Clin North Am** 1997 Sep;26(3):685–94 (52 ref.)

Gastroesophageal reflux disease in patients with columnar–lined esophagus. Ter RB, et al. **Gastroenterol Clin North Am** 1997 Sep;26(3):549–63 (94 ref.)

Saliva and esophagoprotection [letter; comment] Piotrowski J. **Gastroenterology** 1996 Sep;111(3):834–7. Comment on: Gastroenterology 1996 Mar;110(3):675–81.

Management of gastroesophageal reflux disease. Koppelo KL, et al. **J Am Pharm Assoc (Wash)** 1996 Jan;NS36(1):16–26 (48 ref.)

Patient characteristics and lifestyle recommendations in the treatment of gastroesophageal reflux disease. Blair DI, et al. **J Fam Pract** 1997 Mar;44(3):266–72

Gastroesophageal reflux and esophagitis–associated hypertrophic osteoarthropathy. Greenwald M, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):178–81

Pathogenesis to prescription: progress in understanding and treating acid related disorders. Hunt RH. **J R Nav Med Serv** 1996 Summer;82(2):122–33 (125 ref.)

Ask the expert. Gastroesophageal reflux. Berube M. **J Soc Pediatr Nurs** 1997 Jan–Mar;2(1):43–6 (15 ref.)

Gastroesophageal reflux disease: gaining control over heartburn. Larsen RR. **Postgrad Med** 1997 Feb;101(2):181–2, 185–7 (7 ref.)

Cost effectiveness of medical versus surgical treatment in patients with severe or refractory gastroesophageal reflux disease in the Netherlands. Van Den Boom G, et al. **Scand J Gastroenterol** 1996 Jan;31(1):1–9

[Current treatment of gastroesophageal reflux (editorial)] Bytzer P, et al. **Ugeskr Laeger** 1997 Jan 27;159(5):562 **(Dan)**

[Sleeping position, prevention of sudden death syndrome and gastroesophageal reflux] Faure C, et al. **Arch Pediatr** 1996 Jun;3(6):598–601 (16 ref.) (Eng. Abstr.) **(Fre)**

[Gastro–esophageal reflux successfully treated with transgastrostomal jejunal tube feeding] Kanie J, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):60–4 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

[Color coded Doppler ultrasound in diagnosis of gastroesophageal reflux] Hirsch W, et al. **Klin Padiatr** 1997 Jan–Feb;209(1):6–10 (Eng. Abstr.) **(Ger)**

GASTROILEAL BYPASS see **GASTRIC BYPASS**

GASTROINTESTINAL AGENTS

ADMINISTRATION & DOSAGE

Oral erythromycin improves gastrointestinal motility and transit after subtotal but not total gastrectomy for cancer. Altomare DF, et al. **Br J Surg** 1997 Jul;84(7):1017–21

Comparative effects of enteric–coated pancreatin microsphere therapy after conventional and pylorus–preserving pancreatoduodenectomy. Bruno MJ, et al. **Br J Surg** 1997 Jul;84(7):952–6

Bioavailability of a controlled release formulation of ursodeoxycholic acid in man. Alvisi V, et al. **Drugs Exp Clin Res** 1996;22(1):29–33

Adaptation of the pancreas to repeated caerulein administration in rats. A morphological and functional study. Tomaszewska R, et al. **Pol J Pathol** 1997;48(2):95–101

A trial of high–dose ursodeoxycholic acid therapy in a liver transplant recipient [letter] Kita Y, et al. **Transpl Int** 1997;10(1):78–80

[Indications for the use of somatostatin and octreotide in digestive pathology] Zan S, et al. **Minerva Gastroenterol Dietol** 1996 Jun;42(2):107–14 (38 ref.) (Eng. Abstr.) **(Ita)**

[A case of pancreatic pleural effusion and ascites treated successfully with conservative measures including octreotide and nafamostat mesilate] Miyasaka Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):937–41 **(Jpn)**

[Effects of somatostatin and glucagon on secretion of bile lipids in man] Nakamura T, et al. **Klin Med (Mosk)** 1996;74(9):23–6 **(Rus)**

[New gastroenterological prospects of ursodeoxycholic acid] Sheptulin AA. **Klin Med (Mosk)** 1996;74(4):8–10 (38 ref.) **(Rus)**

[Consumption of drugs for the digestive system and for the metabolism by the Spanish population: study from the Health National Survey in 1987 and 1993] del Rio MC, et al. **Gastroenterol Hepatol** 1996 Aug–Sep;19(7):347–50 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Treatment of sulphasalazine–induced agranulocytosis with granulocyte macrophage–colony stimulating factor. Roddie P, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):711–2

Review article: methotrexate in gastroenterology––dangerous villain or simply misunderstood? Tang H, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):851–8 (64 ref.)

5–Aminosalicylates, sulfasalazine, steroid use, and complications in patients with ulcerative colitis. Walker AM, et al. **Am J Gastroenterol** 1997 May;92(5):816–20

Torsades de pointes in two chronic renal failure patients treated with cisapride and clarithromycin. Sekkarie MA. **Am J Kidney Dis** 1997 Sep;30(3):437–9

Role of intestinal transit in the pathogenesis of gallbladder stones. Dowling RH, et al. **Can J Gastroenterol** 1997 Jan–Feb;11(1):57–64 (81 ref.)

Bezoar in a preterm baby associated with sucralfate. Strozik KS, et al. **Clin Pediatr (Phila)** 1996 Aug;35(8):423–4

Cutaneous reactions to alimentary tract medications: results of a seven–year surveillance program and review of the literature. Gruppo Italiano Studi Epidemiologici in Dermatologia (GISED). **Dermatology** 1996;193(1):11–6 (62 ref.)

Cisapride use during human pregnancy: a prospective, controlled multicenter study. Bailey B, et al. **Dig Dis Sci** 1997 Sep;42(9):1848–52

Small–bowel obstruction during enzymatic treatment of gastric bezoar. Nomura H, et al. **Endoscopy** 1997 Jun;29(5):424–6

Hepatotoxicity of drugs used in the treatment of gastrointestinal disorders. Bashir RM, et al. **Gastroenterol Clin North Am** 1995 Dec;24(4):937–67 (213 ref.)

Cisapride in reducing postoperative gastrocaecal transit time after cardiac surgery in children [letter; comment] Jenkins IR. **Intensive Care Med** 1997 Apr;23(4):482–3. Comment on: Intensive Care Med 1996 Sep;22(9):977–80.

Salazosulfapyridine–induced angioimmunoblastic lymphadenopathy. Nakano A, et al. **Intern Med** 1996 Nov;35(11):894–7

Octreotide and lanreotide treatment in active acromegaly [letter; comment] Cannavò S, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2376–7. Comment on: J Clin Endocrinol Metab 1996 Dec;81(12):4502–3.

Hyperkalemia secondary to concurrent pharmacotherapy in a patient receiving home parenteral nutrition. Brown RO, et al. **JPEN J Parenter Enteral Nutr** 1996 Nov–Dec;20(6):429–32

Octreotide–induced pancreatitis: an effect of increased contractility of Oddi sphincter [letter] Bodemar G, et al. **Lancet** 1996 Dec 14;348(9042):1668–9

Failure of prostatitis treatment secondary to probable ciprofloxacin–sucralfate drug interaction. Spivey JM, et al. **Pharmacotherapy** 1996 Mar–Apr;16(2):314–6

Emotional and cognitive factors connected with response to cholecystokinin tetrapeptide in healthy volunteers. Aluoja A, et al. **Psychiatry Res** 1997 Jan 15;66(1):59–67

Severe allergic reaction to intravenous injection of glucagon [letter] Herskovitz PI, et al. **Radiology** 1997 Mar;202(3):879

[Hypersensitivity to 5–aminosalicylic acid. Value of

desensitization by oral route] Lachaux A, et al. **Arch Pediatr** 1997 Feb;4(2):144–6 (Eng. Abstr.) **(Fre)**

BLOOD

Highly sensitive high-performance liquid chromatographic determination method for a new erythromycin derivative, EM523, and its major metabolites in human plasma and urine using post-column tris(2,2'-bipyridine) ruthenium(III) chemiluminescence detection. Monji H, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7; 690(1–2):305–13

Simultaneous enantiomeric determination of a gastroprokinetic agent mosapride citrate and its metabolite in plasma using alpha 1-acid glycoprotein HPLC column. Yokoyama I, et al. **J Pharm Biomed Anal** 1997 Jun; 15(9–10):1527–35

Influence of meal composition on postprandial peripheral plasma concentrations of vasoactive peptides in man. Pedersen-Bjergaard U, et al. **Scand J Clin Lab Invest** 1996 Oct;56(6):497–503

CHEMICAL SYNTHESIS

Synthesis and biological activity of 4-amino-5-chloro-2-ethoxy-3-hydroxybenzamides, metabolites of a new gastroprokinetic agent, mosapride. Kato S, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug; 44(8):1484–92

CHEMISTRY

Pancreatin preparations used in the treatment of cystic fibrosis--lipase content and in vitro release. Walters MP, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):433–40

The effect of smectite composition on the catalysis of peptide bond formation. Bujdák J, et al. **J Mol Evol** 1996 Oct; 43(4):326–33

Relationship between infrared spectra and isomorphous substitution in smectites: a computer simulation study. Chatterjee A, et al. **J Mol Graph** 1996 Oct;14(5):302–5, 285–6

Dobupride--what exactly is its degradation behavior? [letter] Singh S. **J Pharm Biomed Anal** 1997 Jul;15(11):1801–3

DIAGNOSTIC USE

Influence of alcohol on gastrointestinal motility: lactulose breath hydrogen testing in orocecal transit time in chronic alcoholics, social drinkers and teetotaler subjects. Addolorato G, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1076–81

Ultrasonic evaluation of gallbladder emptying with ceruletide. Muraca M, et al. **Ital J Gastroenterol** 1996 Jan; 28(1):38–9

ECONOMICS

[Pharmacoeconomics: the basic concepts and their application to digestive medicine] Díaz de Rojas F. **Gastroenterol Hepatol** 1997 Feb;20(2):68–77 (79 ref.) **(Spa)**

METABOLISM

In vitro dissolution profiles of enteric-coated microsphere/microtablet pancreatin preparations at different pH values. Gan KH, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):771–5

Microbial conversion of EM574 and EM523, gastrointestinal motor stimulating agents. Funabashi Y, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):802–10

Microspectrophotometric evaluation of digestibility of pollen grains. Franchi GG, et al. **Plant Foods Hum Nutr** 1997; 50(2):115–26

GLP-1/GIP chimeric peptides define the structural requirements for specific ligand-receptor interaction of GLP-1. Gallwitz B, et al. **Regul Pept** 1996 May 7; 63(1):17–22

PHARMACOKINETICS

Gastric emptying of pancreatin granules and dietary lipids in pancreatic insufficiency. Nørregaard P, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):427–32

Pancreatin preparations used in the treatment of cystic fibrosis—lipase content and in vitro release. Walters MP, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):433–40

Influence of intravenously administered ciprofloxacin on aerobic intestinal microflora and fecal drug levels when administered simultaneously with sucralfate. Krueger WA, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1725–30

Effects of lanreotide, a somatostatin analogue, on postprandial gastric functions and biliopancreatic secretions in humans. Lamrani A, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):65–70

Development and validation of a pig model for colon-specific drug delivery. Gardner N, et al. **J Pharm Pharmacol** 1996 Jul;48(7):689–93

PHARMACOLOGY

Effect of oral pancreatic enzyme administration on digestive function in healthy subjects: comparison between two enzyme preparations. Domínguez-Muñoz JE, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):403–8

Could oral erythromycin optimize high energy continuous enteral nutrition? Landry C, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):967–73

Effects of octreotide, a somatostatin analogue, on gastric function evaluated by real-time ultrasonography. Okamoto E, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):177–84

A new method to measure gastric emptying in conscious dogs: a validity study and effects of EM523 and L-NNA. Tanaka T, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G909–15

Electrophysiological characterization of a motilin agonist, GM611, on rabbit duodenal smooth muscle. Yamada K, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1003–16

Octreotide diminishes luminal nutrient transport activity, which is reversed by epidermal growth factor. Seydel AS, et al. **Am J Surg** 1996 Sep;172(3):267–71

Exhaustion of blood glucose response and enhancement of insulin response after repeated glucagon injections in type-2 diabetes: potentiation by progressive hyperglycemia. Castillo MJ, et al. **Ann Endocrinol (Paris)** 1996;57(5):395–402

Glucagon inhibits hepatocyte nitric oxide synthesis. Harbrecht BG, et al. **Arch Surg** 1996 Dec;131(12):1266–72

Short-term sucralfate administration alters potassium diclofenac absorption in healthy male volunteers. Pedrazzoli Júnior J, et al. **Br J Clin Pharmacol** 1997 Jan; 43(1):104–8

Effects of octreotide on manometric variables in patients with neuropathic abnormalities of the small bowel. Bassotti G, et al. **Dig Dis Sci** 1997 Aug;42(8):1634–9

Esophagoprotective potential of cisapride. An additional benefit for gastroesophageal reflux disease. Goldin GF, et al. **Dig Dis Sci** 1997 Jul;42(7):1362–9

Flavonoid-induced gastroprotection in rats: role of blood flow and leukocyte adherence. Blank MA, et al. **Digestion** 1997;58(2):147–54

Lactulose, disaccharides and colonic flora. Clinical consequences. Clausen MR, et al. **Drugs** 1997 Jun; 53(6):930–42 (71 ref.)

EM574, an erythromycin derivative, is a motilin receptor agonist in the rabbit. Sato F, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):63–71

Camostate- and caerulein-induced delay of gastric emptying in the rat: effect of CCK receptor antagonists. Varga G, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):153–9

Effect of lactulose on bacterial translocation. Ozaslan C, et al. **Eur J Surg** 1997 Jun;163(6):463–7

Octreotide acetate inhibits motility in the rabbit distal colon. John KD, et al. **Eur Surg Res** 1997;29(4):311–8

Cerulein-induced in vitro activation of trypsinogen in rat pancreatic acini is mediated by cathepsin B. Saluja AK, et al. **Gastroenterology** 1997 Jul;113(1):304–10

Stimulation of acid secretion in rat stomach following exposure to taurocholate in the presence of the nitric oxide synthase inhibitor. Takeuchi K, et al. **Gen Pharmacol** 1996 Jul;27(5):849–54

Effects of cisapride on abnormally prolonged endogastric alkalinity time and delayed gastric emptying in cirrhotic patients. Pimpo MT, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1678–84

Effects of octreotide and a-tocopherol on bacterial translocation in experimental intestinal obstruction: a microbiological, light and electronmicroscopical study. Reis E, et al. **Hepatogastroenterology** 1997 May-Jun; 44(15):656–63

The effects of the pharmacological manipulation of postoperative intestinal motility on colonic anastomoses. An experimental study in a rat model. García-Olmo D, et al. **Int J Colorectal Dis** 1997;12(2):73–7

The effect of octreotid on bacterial translocation from the gut. An experimental study. Türkçapar AG, et al. **Int Surg** 1995 Jul-Sep;80(3):264–6

Influence of cisapride on the pharmacokinetics and antihypertensive effect of sustained-release nifedipine. Satoh C, et al. **Intern Med** 1996 Dec;35(12):941–5

Effect of bile salts on in vitro gallbladder motility: preliminary study. Stolk MF, et al. **Ital J Gastroenterol** 1996 Feb-Mar;28(2):105–10

Glucagon facilitates end-to-end pancreaticojejunostomy. Jordan PH Jr, et al. **J Am Coll Surg** 1997 Apr;184(4):401–2

Bioactive metabolites of EM574 and EM523, erythromycin derivatives having strong gastrointestinal motor stimulating activity. Funabashi Y, et al. **J Antibiot (Tokyo)** 1996 Aug; 49(8):794–801

2-Cyclopenten-1-one, a new inducer of heat shock protein 70 with antiviral activity. Rossi A, et al. **J Biol Chem** 1996 Dec 13;271(50):32192–6

Methods for assessing the effects of drugs on gastrointestinal function in patients and healthy volunteers. Smith JT. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):29S–33S (59 ref.)

Characterization of a novel cell damage model induced by acid and pepsin using rat gastric epithelial cells: protective effect of sucralfate. Furukawa O, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):115–21

Effect of lactulose on short-chain fatty acids and lactate production and on the growth of faecal flora, with special reference to Clostridium difficile. Ito Y, et al. **J Med Microbiol** 1997 Jan;46(1):80–4

Effect of prokinetic agents on ileal contractility in a rabbit model of gastroschisis. Langer JC, et al. **J Pediatr Surg** 1997 Apr;32(4):605–8

VB20B7, a novel 5-HT-ergic agent with gastrokinetic activity. II. Evaluation of the gastroprokinetic activity in rats and dogs. García-Garayoa E, et al. **J Pharm Pharmacol** 1997 Jan;49(1):66–73

VB20B7, a novel 5-HT-ergic agent with gastrokinetic activity. I. Interaction with 5-HT3 and 5-HT4 receptors. Ramírez MJ, et al. **J Pharm Pharmacol** 1997 Jan;49(1):58–65

Effects of sucralfate and its components on indomethacin-induced damage to cultured rabbit gastric mucosal cells. Takahashi S, et al. **J Physiol Pharmacol** 1996 Dec;47(4):611–9

Vagus-dependent and vagus-independent mechanisms of action of the erythromycin derivative EM574 and motilin in dogs. Inatomi N, et al. **Jpn J Pharmacol** 1996 May; 71(1):29–38

Betaines and urinary tract infections [editorial] Chambers ST, et al. **Nephron** 1996;74(1):1–10

Oral administration of KW-5092, a novel gastroprokinetic agent with acetylcholinesterase inhibitory and acetylcholine release enhancing activities, causes a dose-dependent increase in the blood acetylcholine content of beagle dogs. Yamada S, et al. **Neurosci Lett** 1997 Mar 28;225(1):25–8

H-Lys-Arg-Asn-Lys-Asn-Asn-OH is the minimal active structure of oxyntomodulin. Carles-Bonnet C, et al. **Peptides** 1996;17(3):557–61

Effect of motilin on gastrointestinal myoelectric activity in conscious rabbits. Guerrero-Lindner E, et al. **Peptides** 1996;17(6):901–7

High concentrations of cholecystokinin octapeptide suppress protein kinase C activity in guinea pig pancreatic acini. Kimura T, et al. **Peptides** 1996;17(6):917–25

EM523L, a nonpeptide motilin agonist, stimulates gastric emptying and pancreatic polypeptide secretion. Okano H, et al. **Peptides** 1996;17(6):895–900

The prokinetic effect of domperidone in gallbladder--not upon dopaminergic receptors. Tankurt E, et al. **Pharmacol Res** 1996 Sep-Oct;34(3-4):153–6

Recent advances in the pharmacology of gastrointestinal prokinetics. Tonini M. **Pharmacol Res** 1996 Apr-May; 33(4–5):217–26 (126 ref.)

Hepatic enhancement and metastatic lesion conspicuity on CT scans: influence of intravenous glucagon and oral CT contrast material. Warshauer DM, et al. **Radiology** 1997 Feb;202(2):394–8

Effect of modulating voltage-dependent calcium channels on cholecystokinin and acetylcholine-induced contractions of the guinea pig gallbladder. Parkman HP, et al. **Regul Pept** 1996 May 7;63(1):31–7

Effects of lactulose and lactitol on colonic microflora and enzymatic activity. Ballongue J, et al. **Scand J Gastroenterol Suppl** 1997;222:41–4

Effect of lactulose on carbohydrate metabolism and diabetes mellitus. Bianchi G, et al. **Scand J Gastroenterol Suppl** 1997; 222:62–4

Lactulose, lactic acid bacteria, intestinal microecology and mucosal protection. Salminen S, et al. **Scand J Gastroenterol Suppl** 1997;222:45–8 (19 ref.)

In vitro and in vivo lactose and lactulose effects on colonic fermentation and portal-systemic encephalopathy parameters. Uribe-Esquivel M, et al. **Scand J Gastroenterol Suppl** 1997;222:49–52

Effect of lactulose and fiber-rich diets on bile in relation to gallstone disease: an update. VanBerge-Henegouwen GP, et al. **Scand J Gastroenterol Suppl** 1997;222:68–71 (35 ref.)

Effects of lactulose on nitrogen metabolism. Weber FL Jr. **Scand J Gastroenterol Suppl** 1997;222:83–7 (42 ref.)

Current Perspectives in Acid Inhibitory Therapy. Proceedings of a meeting. New Haven, Connecticut, November 17–19, 1995. **Yale J Biol Med** 1996 May-Jun; 69(3):203–316

[Effect of shashen maidong decoction on gastric motility in vivo] Feng WH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):164–6 (Eng. Abstr.) **(Chi)**

[Salazopyrine and male fertility] Marmor D. **Ann Gastroenterol Hepatol (Paris)** 1996 Nov-Dec; 31(6):349–53 (59 ref.) **(Fre)**

[Gastroprotective effect of an antacid coating agent in rats. Role of endogenous prostaglandins, capsaicin-sensitive afferents neurons and nitric oxide] Ramaholimihaso F, et al. **Gastroenterol Clin Biol** 1997;21(5):370–6 (Eng. Abstr.) **(Fre)**

[Effect of KW5139 during early postoperative period after denervation] Nishikawa K, et al. **J Smooth Muscle Res** 1995 Dec;31(6):508–12 **(Jpn)**

[Effect of octreotide on gastric and duodenal motility] Okamoto E, et al. **J Smooth Muscle Res** 1995 Dec; 31(6):364–7 **(Jpn)**

[Erythromycin derivative EM574 with motilin agonistic effect on human gastric antrum] Sato M, et al. **J Smooth Muscle Res** 1995 Dec;31(6):495–8 **(Jpn)**

[Mechanism of increased gastric motility effect of EM523] Shiba Y, et al. **J Smooth Muscle Res** 1995 Dec;31(6):492–5 **(Jpn)**

[Bile acids and immune regulation] Tanaka H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):693–9 (49 ref.) **(Jpn)**

THERAPEUTIC USE

Lactulose improves psychometric testing in cirrhotic patients with subclinical encephalopathy. Horsmans Y, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):165–70

Morning or evening dosage of omeprazole for gastro-oesophageal reflux disease? [letter; comment] Savarino V, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):447–8. Comment on: Aliment Pharmacol Ther 1995 Dec;9(6):693–7.

Sucralfate gel versus placebo in patients with non-erosive gastro-oesophageal reflux disease. Simon B, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):441–6

Review article: methotrexate in gastroenterology--dangerous villain or simply misunderstood? Tang H, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):851–8 (64 ref.)

Prescriptions for mesalazine and sulphasalazine: a prevalence estimate of patients treated for inflammatory bowel disease in Rome. Tebano MT, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):659–63

Review article: safety of bismuth in the treatment of gastrointestinal diseases [see comments] Tillman LA, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):459–67 (60 ref.). Comment in: Aliment Pharmacol Ther 1996 Dec;10(6):1035–6.

Gastrointestinal uses of botulinum toxin. Bhutani MS. **Am J Gastroenterol** 1997 Jun;92(6):929–33 (52 ref.)

Cyclosporin for severe ulcerative colitis: a user's guide. Kornbluth A, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1424–8

Use of prokinetic agents in special populations. Horn JR. **Am J Health Syst Pharm** 1996 Nov 15;53(22 Suppl 3):S27–9 (25 ref.)

Octreotide or vasopressin for bleeding esophageal varices. Law AW, et al. **Ann Pharmacother** 1997 Feb;31(2):237–8 (15 ref.)

Efficacy of octreotide in diarrhoea due to Vibrio cholerae: a randomized, controlled trial. Abbas Z, et al. **Ann Trop Med Parasitol** 1996 Oct;90(5):507–13

Octreotide in malignant intestinal obstruction. Pandha HS, et al. **Anticancer Drugs** 1996 Jan;7 Suppl 1:5–10 (23 ref.)

Criticism of prophylaxis of gastrointestinal bleeding with H2 receptor antagonists is wrong [letter; comment] Cook TM. **BMJ** 1997 Aug 9;315(7104):371–2. Comment on: BMJ 1997 Apr 5;314(7086):1013.

Use of octreotide in the acute management of bleeding esophageal varices. Sadowski DC. **Can J Gastroenterol** 1997 May–Jun;11(4):339–43 (39 ref.)

Lactulose and combination therapy of hepatic encephalopathy: the role of the intestinal microflora. Weber FL Jr. **Dig Dis** 1996;14 Suppl 1:53–63 (71 ref.)

IUPHAR GI section conference: New approaches to pharmacotherapy for hepatic and gastrointestinal inflammatory and ulcerative disorders. Sperlonga, Italy, September 3–7, 1996. Abstracts. **Dig Dis Sci** 1997 Jan; 42(1):195–221

Somatostatin analogues and pancreatic fistulas. Bassi C, et al. **Digestion** 1996;57 Suppl 1:94–6 (9 ref.)

The role of somatostatin analogues in the treatment of refractory diarrhoea. Farthing MJ. **Digestion** 1996;57 Suppl 1:107–13 (52 ref.)

Efficacy of somatostatin and its analogues in pancreatic surgery and pancreatic disorders. Friess H, et al. **Digestion** 1996;57 Suppl 1:97–102

The place of octreotide in the medical management of the dumping syndrome. Scarpignato C. **Digestion** 1996;57 Suppl 1:114–8 (37 ref.)

Effect of erythromycin on postprandial gastroesophageal reflux in reflux esophagitis. Pehl C, et al. **Dis Esophagus** 1997 Jan;10(1):34–7

Erythromycin and motilin as gastrointestinal prokinetic agents [editorial] Asai T. **Eur J Anaesthesiol** 1997 Jan; 14(1):3–6

Treatment of refractory diarrhoea in AIDS with acetorphan and octreotide: a randomized crossover study. Beaugerie L, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):485–9

Comparative evaluation of a high lipase pancreatic enzyme preparation and a standard pancreatic supplement for treating exocrine pancreatic insufficiency in chronic pancreatitis. Delhaye M, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):699–703

Update on the pathophysiology and management of gastro-oesophageal reflux disease: the role of prokinetic therapy. Tytgat GN, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):603–11 (78 ref.)

Effects of Boswellia serrata gum resin in patients with ulcerative colitis. Gupta I, et al. **Eur J Med Res** 1997 Jan; 2(1):37–43

Ursodeoxycholic acid for treatment of cholestasis in children on long-term total parenteral nutrition: a pilot study. Spagnuolo MI, et al. **Gastroenterology** 1996 Sep; 111(3):716–9

A prospective, double-blind trial of L-hyoscyamine versus glucagon for the inhibition of small intestinal motility during ERCP. Lahoti S, et al. **Gastrointest Endosc** 1997 Aug;46(2):139–42

Apical effect of diosmectite on damage to the intestinal barrier induced by basal tumour necrosis factor-alpha. Mahraoui L, et al. **Gut** 1997 Mar;40(3):339–43

Pancreatico-pleural fistula: successful treatment with octreotide. Poddar U, et al. **Indian J Gastroenterol** 1995 Oct;14(4):145–6

Octreotide treatment in patients with necrotizing pancreatitis and pulmonary failure. Fiedler F, et al. **Intensive Care Med** 1996 Sep;22(9):909–15

Ursodeoxycholic acid therapy in primary biliary cirrhosis. Podda M, et al. **Ital J Gastroenterol** 1996 Feb–Mar; 28(2):114–7 (21 ref.)

Tauroursodeoxycholic acid, ursodeoxycholic acid and gallbladder motility in gallstone patients and healthy subjects. Portincasa P, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):111–3

Management of gastroesophageal reflux disease. Koppelo KL, et al. **J Am Pharm Assoc (Wash)** 1996 Jan; NS36(1):16–26 (48 ref.)

Collagenous colitis responsive to octreotide therapy. Fisher NC, et al. **J Clin Gastroenterol** 1996 Dec;23(4):300–1

Repeated piezoelectric lithotripsy for gallstones with and without ursodeoxycholic acid dissolution: a multicenter study. Tsuchiya Y, et al. **J Gastroenterol** 1995 Dec; 30(6):768–74

Cisapride in the long-term treatment of chronic gastroparesis: a 2-year open-label study. Kendall BJ, et al. **J Int Med Res** 1997 Jul–Aug;25(4):182–9

Comparative study of antacid and sucralfate suspension for acute upper gastro-intestinal hemorrhage in Chaiyaphum Hospital, Thailand. Charoenwat S. **J Med Assoc Thai** 1996 Nov;79(11):727–31

Fat gram target to achieve high energy intake in cystic fibrosis. Collins CE, et al. **J Paediatr Child Health** 1997 Apr;33(2):142–7

Erythromycin treatment for gastrointestinal dysmotility in preterm infants. Ng PC, et al. **J Paediatr Child Health** 1997 Apr;33(2):148–50

Octreotide may prevent definitive intestinal obstruction. Mercadante S, et al. **J Pain Symptom Manage** 1997 Jun; 13(6):352–5

Study with two prokinetics in functional dyspepsia and GORD: domperidone vs. cisapride. Halter F, et al. **J Physiol Pharmacol** 1997 Jun;48(2):185–92

The prophylactic effects of superoxide dismutase, catalase, desferrioxamine, verapamil and disulfiram in experimental colitis. Köksoy FN, et al. **J R Coll Surg Edinb** 1997 Feb; 42(1):27–30

Effect of lecithinized-superoxide dismutase on the rat colitis model induced by dextran sulfate sodium. Hori Y, et al. **Jpn J Pharmacol** 1997 May;74(1):99–103

Clinical features of ulcerative colitis in Korea. Park SM, et al. **Korean J Intern Med** 1996 Jan;11(1):9–17

Octreotide therapy for diarrhoea [letter] Gilanders IA, et al. **Postgrad Med J** 1997 Jan;73(855):62

Effect of octreotide on postoperative intraperitoneal adhesions in rats. Lai HS, et al. **Scand J Gastroenterol** 1996 Jul;31(7):678–81

Delayed gastric emptying during interferon-alpha therapy in patients with chronic hepatitis C: relief by cisapride. Nishibayashi H, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):547–51

Self-medication of dyspepsia: how appropriate is it? Sihvo S, et al. **Scand J Gastroenterol** 1997 Sep;32(9):855–61

Double-blind placebo-controlled study of cisapride in patients with nonspecific esophageal motility disorder accompanied by delayed esophageal transit. Song CW, et al. **Scand J Gastroenterol** 1997 Jun;32(6):541–6

Protective effects of dietary lactulose and calcium phosphate against Salmonella infection. Bovee-Oudenhoven I, et al. **Scand J Gastroenterol Suppl** 1997;222:112–4

A clinical hepatologist's predictions about non-absorbed carbohydrates for the early twenty-first century. Conn HO. **Scand J Gastroenterol Suppl** 1997;222:88–92 (51 ref.)

Chemoprevention of colorectal tumors: role of lactulose and of other agents. Ponz de Leon M, et al. **Scand J Gastroenterol Suppl** 1997;222:72–5

Lactulose and renal failure. Vogt B, et al. **Scand J Gastroenterol Suppl** 1997;222:100–1 (17 ref.)

Octreotide prevents the pathological alterations of bowel obstruction in cancer patients [letter] Mercadante S, et al. **Support Care Cancer** 1996 Sep;4(5):393–4

Somatostatin and its analogues in G.I. tract, liver and pancreatic disorders. Dhar A, et al. **Trop Gastroenterol** 1995 Jul–Sep;16(3):3–7 (22 ref.)

[Could delayed action flanreotide be used as substitute for octreotide in the treatment of dumping syndrome? (letter)] Bouché O, et al. **Gastroenterol Clin Biol** 1997;21(1):84–5 **(Fre)**

[Treatment with octreotide of stenosing cystic dystrophy on heterotopic pancreas of the duodenal wall] de Parades V, et al. **Gastroenterol Clin Biol** 1996;20(6–7):601–4 (12 ref.) (Eng. Abstr.) **(Fre)**

[Study report: management of diarrhea with Smectite. High absorption capacity and natural mucosal protection] **Fortschr Med Suppl** 1993;152:1–12 **(Ger)**

[Symptomatic therapy of severe diarrhea in eosinophilic gastroenteritis with the somatostatin analog octreotide (Sandostatin)] Rausch T, et al. **Schweiz Med Wochenschr Suppl** 1997;89:9S–13S (Eng. Abstr.) **(Ger)**

[Internal medicine therapy in reflux disease] Flad J. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1432–8 (Eng. Abstr.) **(Ger)**

[Treatment of pancreatic insufficiency with a preparation containing high lipase activity] Pap A, et al. **Orv Hetil** 1997 Mar 9;138(10):601–4 (Eng. Abstr.) **(Hun)**

[Echographic and ERCP-manometric study of gallbladder and Oddi's sphincter behavior in biliary colic in patients with cholelithiasis. Effects of cerulein] Pizzuto G, et al. **Minerva Chir** 1996 Dec;51(12):1145–9 (Eng. Abstr.) **(Ita)**

[Current medical therapies for Crohn's disease in Japan] Munakata A, et al. **Nippon Geka Gakkai Zasshi** 1997 Apr; 98(4):406–11 (Eng. Abstr.) **(Jpn)**

[Successful treatment of a large pancreatic pseudocyst with a percutaneous catheter drainage and a somatostatin analogue--report of a case] Yamao K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):942–6 **(Jpn)**

[Enteral detoxication in patients with liver cirrhosis and bleeding from the esophageal and gastric varices] Shertsinger AG, et al. **Khirurgiia (Mosk)** 1997;(2):31–4 (Eng. Abstr.) **(Rus)**

[Non-steroid anti-inflammatory agents and gastrointestinal protection: adequate prescription in primary care?] Burrull M, et al. **Aten Primaria** 1996 Nov 30;18(9):507–10 (Eng. Abstr.) **(Spa)**

[The prescription of nonsteroidal anti-inflammatory and stomach-protector agents. Its adaptation to quality criteria in primary care] Sánchez Casado JI, et al. **Aten Primaria** 1997 Jul–Aug;20(3):127–32 (Eng. Abstr.) **(Spa)**

[Menetrier disease associated with ulcerative colitis. Response to the treatment with octreotide. Review of the diagnostic criteria and etiopathogenesis] Ojeda E, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):175–9 (20 ref.) (Eng. Abstr.) **(Spa)**

[The therapeutic applications of octreotide] Carrera-Hueso FJ, et al. **Med Clin (Barc)** 1996 Apr 6;106(13):505–16 (239 ref.) **(Spa)**

[Treatment of enterocutaneous fistula with or without octreotide and parenteral nutrition] Hernández-Aranda JC, et al. **Nutr Hosp** 1996 Jul–Aug;11(4):226–9 (Eng. Abstr.) **(Spa)**

[Octreotide in the treatment of gastrointestinal disorders (editorial)] Jorquera Plaza F, et al. **Nutr Hosp** 1996 Jul–Aug;11(4):213–4 **(Spa)**

TOXICITY

Gastric motility and mucosal ulcerogenic responses induced by prokinetic drugs in rats under prostaglandin-deficient conditions. Takeuchi K, et al. **Dig Dis Sci** 1997 Feb; 42(2):251–8

Toxicity order of cholanic acids using an immobilised cell biosensor. Campanella L, et al. **J Pharm Biomed Anal** 1996 Jun;14(8–10):1007–13

GASTROINTESTINAL CANCER ANTIGEN see **CA-19-9 ANTIGEN**

GASTROINTESTINAL CONTENTS

Gastric volume rather than nutrient content inhibits food intake. Phillips RJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R766–9

The effect of lactobacilli inoculation on organic acid levels in the mucosal film and the small intestine contents in gnotobiotic pigs. Bomba A, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov–Dec; 109(11–12):428–30

Ammonia in ruminal and abomasal contents of cows with abomasal displacement. Geishauser T, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Nov;103(11):465–8

Effects of luminal nutrients and small bowel transplants on congenital indirect hyperbilirubinemia. Burgos AA, et al. **J Surg Res** 1997 Apr;69(1):87–93

Fetal gastrointestinal composition: implications for water and electrolyte absorption. Sherman DJ, et al. **Reprod Fertil Dev** 1996;8(3):323–6

[Preanesthetic meals in elective surgical patients] Tanabe T, et al. **Masui** 1997 Jun;46(6):788–92 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Gastric contamination of postmortem blood samples during blind-stick sample collection. Logan BK, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):109–11

Postmortem diffusion of drugs from gastric residue: an experimental study. Pounder DJ, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):1–7

Development of an ileal amino acid digestibility assay for the growing chicken--effects of time after feeding and site of sampling. Kadim IT, et al. **Br Poult Sci** 1997 Mar; 38(1):89–95

Antibacterial activity of formic and propionic acids in the diet of hens on Salmonellas in the crop. Thompson JL, et al. **Br Poult Sci** 1997 Mar;38(1):59–65

Lactational passage of fusaric acid from the feed of nursing dams to the neonate rat and effects on pineal neurochemistry in the F1 and F2 generations at weaning. Porter JK, et al. **J Toxicol Environ Health** 1996 Oct 11; 49(2):161–75

Postparturient change in endotoxin levels of ruminal fluid and serum in dairy cows. Mochizuki M, et al. **J Vet Med Sci** 1996 Jun;58(6):577–80

Mucin output in ileal digesta of pigs fed a protein-free diet. Lien KA, et al. **Z Ernahrungswiss** 1997 Jun;36(2):182–90

[Isolation of medicinal substances and drugs from biological material] Wawschinek O, et al. **Mikrochim Acta** 1977;(1–2 Pt 2):15–23 **(Ger)**

[Methamphetamine-like substance detected only in stomach contents from autopsied cadavers] Maruyama K, et al. **Nippon Hoigaku Zasshi** 1996 Jun;50(3):168–73 (Eng. Abstr.) **(Jpn)**

[The contents of the stomach was full of 13CO2 gas in

patients with Helicobacter pylori after oral administration of 13C-urea] Urita Y, et al.
Nippon Shokakibyo Gakkai Zasshi 1997 Mar;94(3):229 **(Jpn)**

ENZYMOLOGY

Schistosoma japonicum, S. mansoni, S. haematobium, S. intercalatum, and S. rodhaini: cysteine-class cathepsin activities in the vomitus of adult worms. Caffrey CR, et al. **Parasitol Res** 1997;83(1):37-41

Effect of feeding diets containing an antibiotic, a probiotic, or yucca extract on growth and intestinal urease activity in broiler chicks. Yeo J, et al. **Poult Sci** 1997 Feb; 76(2):381-5

MICROBIOLOGY

Direct detection of Campylobacter jejuni in chicken cecal contents by PCR. Chuma T, et al. **J Vet Med Sci** 1997 Jan;59(1):85-7

Most probable numbers of enterotoxigenic Clostridium perfringens in intestinal contents of domestic livestock detected by nested PCR. Miwa N, et al.
J Vet Med Sci 1997 Jul;59(7):557-60

Most probable number method combined with nested polymerase chain reaction for detection and enumeration of enterotoxigenic Clostridium perfringens in intestinal contents of cattle, pig and chicken. Miwa N, et al.
J Vet Med Sci 1997 Feb;59(2):89-92

Intestinal anaerobic bacteria hydrolyse sorivudine, producing the high blood concentration of 5-(E)-(2-bromovinyl)uracil that increases the level and toxicity of 5-fluorouracil. Nakayama H, et al.
Pharmacogenetics 1997 Feb;7(1):35-43

[A direct microscopic preparation of the gastric aspirate is an aid in the diagnosis of congenital neonatal infection] Shopova E. **Akush Ginekol (Sofiia)** 1996;35(3):17-9 (Eng. Abstr.) **(Bul)**

PARASITOLOGY

Diagnosis of subclinical cryptosporidiosis in captive snakes based on stomach lavage and cloacal sampling. Graczyk TK, et al. **Vet Parasitol** 1996 Dec 31;67(3-4):143-51

RADIONUCLIDE IMAGING

A comparison of three gastric lavage methods using the radionuclide gastric emptying study. Shrestha M, et al.
J Emerg Med 1996 Jul-Aug;14(4):413-8

GASTROINTESTINAL DISEASES

IXth Belgian Week of Gastroenterology. 1997. Abstracts.
Acta Gastroenterol Belg 1997 Jan-Mar;60(1):A1-F13

Proceedings of the 1st International Rushmore Conference on Mechanisms in the Pathogenesis of Enteric Diseases. Rapid City, South Dakota, September 28-30, 1995.
Adv Exp Med Biol 1997;412:1-439

Update in gastroenterology. Greenberger NJ.
Ann Intern Med 1997 Feb 1;126(3):221-5 (9 ref.)

Summary of the National Consensus Conference on Foodborne, Waterborne and Enteric Disease Surveillance.
Can Commun Dis Rep 1996 Jun 1;22(11):81-4 (0 ref.) **(Eng, Fre)**

The contribution of recent advance in pediatric gastroenterology on child health [editorial] Chang MH.
Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih 1997 May-Jun;38(3):177

Gastrointestinal disorders in the elderly. Siddiqui MA, et al.
Compr Ther 1997 May;23(5):349-59 (25 ref.)

Amyloid and the gut. Lovat LB, et al. **Dig Dis** 1997 May-Jun; 15(3):155-71 (105 ref.)

Future perspectives in gastroenterology. Proceedings of an international conference. Leipzig, Germany, June 6-8, 1996. **Digestion** 1997;58 Suppl 1:1-116

5th United European Gastroenterology Week. Paris, 2-6 November 1996. Abstracts. **Endoscopy** 1996 Oct; 28(8):650-9, S1-78

Digestive Disease Week and the 97th Annual Meeting of the American Gastroenterological Association, Washington, D.C., May 11-14, 1997. Abstracts.
Gastroenterology 1997 Apr;112(4 Suppl):A1-1487

The immunomodulation of enteric neuromuscular function: implications for motility and inflammatory disorders. Collins SM. **Gastroenterology** 1996 Dec;111(6):1683-99 (179 ref.)

5th United European Gastroenterology Week. Paris, France, 2-6 November 1996. Abstracts. **Gut** 1996;39 Suppl 3:A1-292

The British Society of Gastroenterology, autumn meeting. 18-20 September 1996. Abstracts. **Gut** 1996;39 Suppl 1:A1-49

European Helicobacter pylori Study Group. IXth International Workshop on Gastroduodenal Pathology and Helicobacter pylori. Copenhagen, Denmark, 16-19 October 1996. Abstracts. **Gut** 1996;39 Suppl 2:A1-131

The British Society of Gastroenterology Diamond Jubilee. March 1997. **Gut** 1997 Mar;40 Suppl 2:S1-44

The British Society of Gastroenterology diamond jubilee meeting. Brighton, 18-21 March 1997. Abstracts. **Gut** 1997; 40 Suppl 1:A1-86

Irish Society of Gastroenterology winter meeting. November 29-30, 1996. Abstracts. **Ir J Med Sci** 1997 Jan-Mar;166 Suppl 2:1-23

Irish Society of Gastroenterology winter meeting. Dublin, 17-18 November 1995. Abstracts. **Ir J Med Sci** 1996 Jan-Mar;165 Suppl 1:4-22

Irish Society of Gastroenterology meeting. 6-7 June 1997. Abstracts. **Ir J Med Sci** 1997 Jul-Sep;166 Suppl 6:1-23

Guidelines for the management of Helicobacter pylori-related upper gastrointestinal diseases. Irish Helicobacter Pylori Study Group. Buckley M, et al.
Ir J Med Sci 1996 Oct-Dec;165 Suppl 5:1-11 (74 ref.)

Proceedings of the 5th Taisho International Symposium on Gastroenterology. Hakone, Japan, April 6-7, 1994.
J Clin Gastroenterol 1995;21 Suppl 1:vii-ix, S1-186

Gastrointestinal illness and the biopsychosocial model [editorial] Drossman DA. **J Clin Gastroenterol** 1996 Jun; 22(4):252-4 (11 ref.)

Excess costs from gastrointestinal disease associated with nonsteroidal anti-inflammatory drugs. Smalley WE, et al.
J Gen Intern Med 1996 Aug;11(8):461-9

10th Highlights of Gastroenterology in The Netherlands. Proceedings of a symposium. Curaçao, 5-9 April 1995.
Scand J Gastroenterol Suppl 1996;218:1-123

Quality of life in gastrointestinal disease: a challenge and/or panacea? Proceedings of a workshop. Cape Town, South Africa, 3-4 November 1995.
Scand J Gastroenterol Suppl 1996;221:v, 1-41

Current topics in gastroenterology 1995: exploring the jungle. Proceedings of a meeting. **Scand J Gastroenterol Suppl** 1996;220:1-171

11th Highlights of Gastroenterology in The Netherlands. Proceedings of a symposium. Venice, Italy, 28-31 March 1996. **Scand J Gastroenterol Suppl** 1997;223:1-107

28th Nordic Congress of Gastroenterology, 19th Nordic Endoscopic Meeting and 7th SAGIM Scientific Session. Reykjavik, Iceland, 13-15 June 1996. Abstracts.
Scand J Gastroenterol Suppl 1996;217:1-34

29th Nordic Congress of Gastroenterology, 28th Nordic Endoscopic Meeting and 8th SAGIM Scientific Session. Odense, Denmark, 12-14 June 1997. Abstracts.
Scand J Gastroenterol Suppl 1997;224:21-71

Relevance of norm values as part of the documentation of quality of life instruments for use in upper gastrointestinal disease. Dimenäs E, et al. **Scand J Gastroenterol Suppl** 1996; 221:8-13

Quality of life: a reflection of symptoms and concerns. Glise H, et al. **Scand J Gastroenterol Suppl** 1996;221:14-7 (20 ref.)

Measuring quality of life: a review. Irvine EJ.
Scand J Gastroenterol Suppl 1996;221:5-7 (10 ref.)

Nutrition and gastrointestinal disease. O'Keefe SJ.
Scand J Gastroenterol Suppl 1996;220:52-9 (52 ref.)

Role of free radicals in gastrointestinal cancer. Salim AS.
Singapore Med J 1996 Jun;37(3):295-8 (42 ref.)

European Gastro Club 28th conference. Munster, 4-5 October 1996. Abstracts. **Z Gastroenterol** 1996 Dec; 34(12):831-42

[French-Speaking meeting on digestive diseases. Strasbourg, France, 15-19 March 1997. Abstracts]
Gastroenterol Clin Biol 1997;21(2 Pt 2):A1-235 **(Fre)**

[French-Speaking meeting on digestive diseases. Lille, 23-27 March 1996. Abstracts] **Gastroenterol Clin Biol** 1996 Mar; 20(2 Pt 2):A1-237 **(Fre)**

[Why and how to carry out studies of quality of life in gastroenterology? (editorial)] Raymond JM.
Gastroenterol Clin Biol 1996;20(12):1067-70 **(Fre)**

[61st annual meeting of the Swiss Society of Gastroenterology and Hepatology with participation from the Swiss Association for the Study of the Liver. Lugano, 19-21 September 1996. Abstracts]
Schweiz Med Wochenschr Suppl 1996;82:4S-115S **(Fre, Ger)**

[Cytomegalovirus infection in neonates. Diagnosis and therapeutic experiences] Fjaer RB, et al.
Tidsskr Nor Laegeforen 1997 Apr 20;117(10):1460-4 (Eng. Abstr.) **(Nor)**

[Morbidity rate and early diagnosis of gastrointestinal tract pathology (GIT) in aircrew] Vasil'ev VA.
Aviakosm Ekolog Med 1996;30(6):57-9 (Eng. Abstr.) **(Rus)**

[National meeting of the Mexican Association of Gastroenterology. Monterrey, Mexico, 30 November-5 December 1996. Abstracts] **Rev Gastroenterol Mex** 1996 Oct-Dec;61(4 Suppl 1):S33-109 **(Spa)**

BLOOD

A novel test for fecal occult blood by the hybridization method with specific human deoxyribonucleic acid in leucocytes: preliminary experiment. Miyai K, et al.
Clin Chim Acta 1997 Jul 4;263(1):123-31

Elevation of serum interleukin-6 but not serum-soluble interleukin-2 receptor in children with Crohn's disease. Bross DA, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug; 23(2):164-71

CHEMICALLY INDUCED

NSAIDs and the gastrointestinal tract. Lanza FL.
Abdom Imaging 1997 Jan-Feb;22(1):1-4 (33 ref.)

Side effects of opioids in postoperative pain treatment. Camu F. **Acta Anaesthesiol Belg** 1996;47(3):105-9 (28 ref.)

Emergency admissions for upper gastrointestinal disease and their relation to NSAID use. Blower AL, et al.
Aliment Pharmacol Ther 1997 Apr;11(2):283-91

Prevalence of upper gastrointestinal lesions in patients taking chronic nonsteroidal anti-inflammatory drug therapy [letter; comment] Zuckerman MJ, et al.
Am J Gastroenterol 1997 Feb;92(2):363-4. Comment on: Am J Gastroenterol 1987 Nov;82(11):1153-8.

Nonnarcotic analgesics: prevalence and estimated economic impact of toxicities [see comments] McGoldrick MD, et al. **Ann Pharmacother** 1997 Feb;31(2):221-7 (50 ref.). Comment in: Ann Pharmacother 1997 Feb;31(2):245-8.

Pharmacokinetics of indomethacin ester prodrugs: gastrointestinal and hepatic toxicity and the hydrolytic capacity of various tissues in rats. Ogiso T, et al.
Biol Pharm Bull 1996 Sep;19(9):1178-83

Meta-analysis of risk of gastrointestinal complications with NSAIDs. Authors should not have included data from one study [letter; comment] Henry D. **BMJ** 1997 Feb 8; 314(7078):445. Comment on: BMJ 1996 Jun 22;312(7046):1563-6.

Systematic reviews provide information not contained in traditional narrative reviews [letter; comment] Henry D. **BMJ** 1997 Jun 21;314(7097):1832-3. Comment on: BMJ 1997 Feb 8;314(7078):445-6.

Meta-analysis of risk of gastrointestinal complications with NSAIDs. Narrative review should have been used [letter; comment] [see comments] Kaufman DW, et al. **BMJ** 1997 Feb 8;314(7078):445-6. Comment on: BMJ 1996 Jun 22;312(7046):1563-6. Comment in: BMJ 1997 Jun 21;314(7097):1832-3.

NSAID gastroenteropathy: past, present and future. Wallace JL. **Can J Gastroenterol** 1996 Nov-Dec;10(7):451-9 (88 ref.)

Metabolic support of the gastrointestinal tract: potential gut protection during intensive cytotoxic therapy. Wilmore DW. **Cancer** 1997 May 1;79(9):1794-803 (72 ref.)

Adverse effects of bisphosphonates. A comparative review. Adami S, et al. **Drug Saf** 1996 Mar;14(3):158-70 (105 ref.)

Drug-induced Clostridium difficile-associated disease. Job ML, et al. **Drug Saf** 1997 Jul;17(1):37-46 (62 ref.)

Which prophylactic aspirin? **Drug Ther Bull** 1997 Jan; 35(1):7-8 (19 ref.)

The risks and costs of upper gastrointestinal disease attributable to NSAIDs. Smalley WE, et al.
Gastroenterol Clin North Am 1996 Jun;25(2):373-96 (99 ref.)

Nonsteroidal anti-inflammatory drugs and gastroenteropathy: the second hundred years. Wallace JL.
Gastroenterology 1997 Mar;112(3):1000-16 (179 ref.)

Effects of aspirin and Helicobacter pylori on the gastroduodenal mucosal permeability to sucrose. Rabassa AA, et al. **Gut** 1996 Aug;39(2):159-63

Gastrointestinal protection by NO from NSAIDs induced injury. Rishi RK, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):377-9 (22 ref.)

Recent Advances on NSAID and NSAID Gastropathy, 1st annual meeting. Ferrara, Italy, 6-7 December 1996. Proceedings. **Ital J Gastroenterol** 1996 Dec;28 Suppl 4:1-41

Early pathogenic events in NSAID-induced gastrointestinal damage. Bjarnason I, et al. **Ital J Gastroenterol** 1996 Dec; 28 Suppl 4:19-22

NSAID gastropathy: state of the art. Cervini C, et al.
Ital J Gastroenterol 1996 Dec;28 Suppl 4:1-5 (36 ref.)

New directions in cyclooxygenase research and their implications for NSAID-gastropathy. Flower RJ.
Ital J Gastroenterol 1996 Dec;28 Suppl 4:23-7 (26 ref.)

Epidemiological aspects of NSAID gastropathy. Guslandi M. **Ital J Gastroenterol** 1996 Dec;28 Suppl 4:6-8 (21 ref.)

Endoscopic aspects of gastroduodenal mucosa due to NSAIDs. Ruina M, et al. **Ital J Gastroenterol** 1996 Dec; 28 Suppl 4:9-11

Upper gastrointestinal obstruction associated with Claritin-D 24 Hour Extended Release tablets. Farinas E, et al.
J Allergy Clin Immunol 1997 Sep;100(3):427-8

Drug induced gastrointestinal diseases. Kalro RH, et al.
J Assoc Physicians India 1996 Oct;44(10):715-9 (54 ref.)

Famotidine to prevent peptic ulcer caused by NSAIDs [letter; comment] Singh G, et al. **N Engl J Med** 1996 Oct 24;335(17):1322; discussion 1322-3. Comment on: N Engl J Med 1996 May 30;334(22):1435-9.

Efficacy of misoprostol in the prophylaxis of gastroduodenal lesions induced by short-term nonsteroidal antiinflammatory drug therapy in elderly patients. A multicenter double-blind, placebo-controlled trial. Piette F, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):259-66

A randomized, double-blind, crossover comparative endoscopy study on the gastroduodenal tolerability of a highly specific cyclooxygenase-2 inhibitor, flosulide, and naproxen. Bjarnason I, et al. **Scand J Gastroenterol** 1997 Feb;32(2):126-30

Quality of life in users of non-steroidal anti-inflammatory drugs. Hawkey CJ. **Scand J Gastroenterol Suppl** 1996; 221:23-4

Considerations for nonsteroidal anti-inflammatory drug therapy: safety. Blower AL. **Scand J Rheumatol Suppl** 1996; 105:13-24; discussion 25-7 (51 ref.)

Nonsteroidal antiinflammatory drugs, ulcers and risk: a collaborative meta-analysis. García Rodríguez LA.
Semin Arthritis Rheum 1997 Jun;26(6 Suppl 1):16-20

The gastroenterologist's caseload: contribution of the rheumatologist. Hawkey CJ. **Semin Arthritis Rheum** 1997 Jun;26(6 Suppl 1):11-5 (13 ref.)

[Side effects of treatment with non-steroidal antiinflammatory agents and ways of their corrections] Grebneva LS, et al. **Klin Med (Mosk)** 1997;75(5):42–5 (45 ref.) **(Rus)**

[Comparative study of the occurrence of gastrointestinal side-effects of tenoxicam and other nonsteroidal antirheumatic agents in patients with rheumatoid arthritis] Vlak T, et al. **Reumatizam** 1996;43(1):1–9 (Eng. Abstr.) **(Scr)**

CLASSIFICATION

The ulcer disease: an updated classification system. Stanchev IN. **Folia Med (Plovdiv)** 1996;38(1):23–31

COMPLICATIONS

Gastrointestinal involvement in Henoch–Schönlein syndrome: CT findings. Jeong YK, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):965–8

Prevalence of adverse reactions to food in patients with gastrointestinal disease. Bischoff SC, et al. **Allergy** 1996 Nov;51(11):811–8

Energy and protein metabolism during recovery from malnutrition due to nonneoplastic gastrointestinal disease. Carbonnel F, et al. **Am J Clin Nutr** 1997 May;65(5):1517–23

Other rheumatological complications of GI disorders [letter] Mönkemüller KE, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2652

A prospective study of the gastroenterological causes of iron deficiency anaemia in a general hospital. Bampton PA, et al. **Aust N Z J Med** 1996 Dec;26(6):793–9

Gastro-intestinal disorders [letter; comment] Markitziu A, et al. **Br Dent J** 1997 Mar 22;182(6):207. Comment on: Br Dent J 1996 Aug 24;181(4):125–31.

Immunologically confirmed disseminated, asymptomatic Encephalitozoon cuniculi infection of the gastrointestinal tract in a patient with AIDS. Franzen C, et al. **Clin Infect Dis** 1995 Dec;21(6):1480–4

Gastrointestinal symptoms and diabetes mellitus in children and adolescents [see comments] Vogiatzi MG, et al. **Clin Pediatr (Phila)** 1996 Jul;35(7):343–7. Comment in: Clin Pediatr (Phila) 1997 Mar;36(3):185–6.

Rheumatic features of gastrointestinal tract, hepatic, and pancreatic diseases. Ramos-Remus C, et al. **Curr Opin Rheumatol** 1997 Jan;9(1):56–61 (68 ref.)

Impact of gastrointestinal dysfunction on survival after liver transplantation for familial amyloidotic polyneuropathy. Suhr O, et al. **Dig Dis Sci** 1996 Oct;41(10):1909–14

Intestinal IgA deposition in Henoch–Schönlein purpura with severe gastro-intestinal manifestations. Kato S, et al. **Eur J Pediatr** 1996 Feb;155(2):91–5

Epithelial cell proliferation in childhood enteropathies. Savidge TC, et al. **Gut** 1996 Aug;39(2):185–93

Chronic pelvic pain in women--gastroenterological, gynaecological or psychological? Kamm MA. **Int J Colorectal Dis** 1997;12(2):57–62 (59 ref.)

Detection of the microsporidian parasite Enterocytozoon bieneusi in specimens from patients with AIDS by PCR. Velásquez JN, et al. **J Clin Microbiol** 1996 Dec; 34(12):3230–2

Sarcoidosis resulting in duodenal obstruction in an adolescent. Noël JM, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):594–8

Gastroesophageal reflux, motility disorders, and psychological profiles in the etiology of globus pharyngis. Hill J, et al. **Laryngoscope** 1997 Oct;107(10):1373–7

Gastrointestinal involvement in patients with chronic lymphocytic leukemia. Kuse R, et al. **Leukemia** 1997 Apr; 11 Suppl 2:S50–1

Gastrointestinal histoplasmosis in a patient with acquired immune deficiency syndrome. Raza J, et al. **Mt Sinai J Med** 1996 Mar;63(2):136–40

The cutaneous manifestations of gastrointestinal disease. Katz SK, et al. **Prim Care** 1996 Sep;23(3):455–76 (63 ref.)

Neurologic dysfunction in gastrointestinal disease. Pfeiffer RF. **Semin Neurol** 1996 Sep;16(3):217–26 (124 ref.)

Abdominal aortic aneurysm combined with a second intraabdominal non vascular disease--a clinical study and surgical treatment. Dimakakos PB, et al. **Swiss Surg** 1996; 2(5):215–8

[Drug interactions. II. Examples encountered in the treatment of digestive pathologies] Malonne H, et al. **J Pharm Belg** 1997 Mar-Apr;52(2):65–8 (40 ref.) **(Fre)**

[Hypertension and gastrointestinal diseases] Müller MC, et al. **Fortschr Med** 1997 Apr 10;115(10):49–52 (0 ref.) (Eng. Abstr.) **(Ger)**

[Polyneuropathy, diarrhea (clinical conference)] Koopmann F, et al. **Schweiz Rundsch Med Prax** 1996 Nov 26; 85(48):1553–8 (Eng. Abstr.) **(Ger)**

[Imaging techniques in the assessment of thoracic and abdominal manifestations of AIDS] Gualdi GF, et al. **Clin Ter** 1996 Sep;147(9):457–64 (Eng. Abstr.) **(Ita)**

[Changes in the locomotor system in gastrointestinal diseases] Zulkarneev RA. **Khirurgiia (Mosk)** 1997;(4):74–7 (83 ref.) **(Rus)**

[Pain syndrome in gastroenterological practice: potentialities of evaluation] Rutgaizer IM, et al. **Klin Med (Mosk)** 1996; 74(4):45–8 (Eng. Abstr.) **(Rus)**

[Problems in drug prevention and treatment of endogenous infection and dysbacteriosis] Melńikova VM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):26–9 (21 ref.) (Eng. Abstr.) **(Rus)**

[Diffuse gastrointestinal angiodysplasia associated with cryptogenic hepatic cirrhosis and coagulopathy simulating von Willebrand disease] Sebastián JJ, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):631–3 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Kruis scoring system and Manning's criteria in diagnosis of irritable bowel syndrome: is it better to use combined? Doğan UB, et al. **Acta Gastroenterol Belg** 1996 Oct–Dec; 59(4):225–8

The role of laparoscopy in chronic and recurrent abdominal pain. Miller K, et al. **Am J Surg** 1996 Oct;172(4):353–6; discussion 356–7

Paediatric upper gastro-intestinal endoscopy in developing countries. Rawashdeh MO, et al. **Ann Trop Paediatr** 1996 Dec;16(4):341–6

Immunological studies on human larval toxocarosis. Uhlíková M, et al. **Cent Eur J Public Health** 1996 Dec;4(4):242–5

A novel test for fecal occult blood by the hybridization method with specific human deoxyribonucleic acid in leucocytes: preliminary experiment. Miyai K, et al. **Clin Chim Acta** 1997 Jul 4;263(1):123–31

Imaging techniques in the diagnosis of gastrointestinal and hepatic disease. Kao SC, et al. **Curr Opin Pediatr** 1996 Oct; 8(5):487–94 (119 ref.)

Gene level diagnostics in gastroenterology. Göke B. **Digestion** 1997;58 Suppl 1:82–5 (2 ref.)

Use of peptide receptor agonists and antagonists for diagnosis and treatment. Jensen RT. **Digestion** 1997;58 Suppl 1:86–93 (26 ref.)

Future perspectives in gastroenterology: laser. Riemann JF. **Digestion** 1997;58 Suppl 1:101–3 (21 ref.)

State of the Art in Gastroenterologic Endoscopy. A review of diagnostic and therapeutic endoscopy in gastrointestinal diseases covering article published during 1994 and 1995. **Endoscopy** 1996 Jan;28(1):1–204

Tissue spectroscopy for gastrointestinal diseases. Bohorfoush AG. **Endoscopy** 1996 May;28(4):372–80 (57 ref.)

A review of the technical and clinical aspects of virtual endoscopy. Kay CL, et al. **Endoscopy** 1996 Nov; 28(9):768–75 (25 ref.)

Endoscopic magnetic resonance imaging at variable coil orientations. Kulling D, et al. **Endoscopy** 1997 May; 29(4):336–7

The role of endoscopic evaluation in patients with suspected intestinal graft-versus-host disease after allogeneic bone-marrow transplantation. Terdiman JP, et al. **Endoscopy** 1996 Oct;28(8):680–5

The diagnoses of patients admitted with acute chest pain but without myocardial infarction. Fruergaard P, et al. **Eur Heart J** 1996 Jul;17(7):1028–34

The gastrointestinal tract: cross sectional imaging [editorial] Dixon AK. **Eur J Radiol** 1996 May;22(2):83–5

Molecular diagnosis of gastrointestinal infections associated with HIV infection. Talal AH, et al. **Gastroenterol Clin North Am** 1997 Jun;26(2):417–44 (152 ref.)

Gastrointestinal diagnosis, abuse history, and effects on health status [letter; comment] Drossman DA, et al. **Gastroenterology** 1996 Oct;111(4):1159–61. Comment on: Gastroenterology 1996 Apr;110(4):1301–4.

Absence of bacteremia after gastrointestinal procedures in children. el-Baba M, et al. **Gastrointest Endosc** 1996 Oct; 44(4):378–81

A comparative study of unsedated transnasal esophagogastroduodenoscopy and conventional EGD. Dean R, et al. **Gastrointest Endosc** 1996 Oct;44(4):422–4

Overuse of upper gastrointestinal endoscopy in a country with open-access endoscopy: a prospective study in primary care. Froehlich F, et al. **Gastrointest Endosc** 1997 Jan;45(1):13–9

Evaluation of the clinical impact of endoscopic ultrasonography in gastrointestinal disease [see comments] Jafri IH, et al. **Gastrointest Endosc** 1996 Oct;44(4):367–70 . Comment in: Gastrointest Endosc 1996 Oct;44(4):502–4.

Endoscopic resection of gastrointestinal submucosal lesions: a comparison between strip biopsy and aspiration lumpectomy. Kajiyama T, et al. **Gastrointest Endosc** 1996 Oct;44(4):404–10

Enhanced imaging of angiodysplasias using remote endoscopic digital spectroscopy. Krevsky B, et al. **Gastrointest Endosc** 1996 Nov;44(5):598–602

Diagnostic and therapeutic endosonography: endoscopic ultrasound-guided fine-needle aspiration in clinical practice [editorial; comment] Stotland BR, et al. **Gastrointest Endosc** 1997 Mar;45(3):329–31. Comment on: Gastrointest Endosc 1997 Mar;45(3):243–50.

Controversy and consensus in the management of upper gastrointestinal disease in primary care. The International Gastro Primary Care Group. Whitaker MJ, et al. **Int J Clin Pract** 1997 Jun;51(4):239–43

The relationship between abdominal pain regions and specific diseases: an epidemiologic approach to clinical practice. Yamamoto W, et al. **J Epidemiol** 1997 Mar;7(1):27–32

Sucrose--how sweet is it? [editorial; comment] Meddings J. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):621–2. Comment on: J Pediatr Gastroenterol Nutr 1997 May;24(5):506–11.

Neonatal and infantile upper gastrointestinal endoscopy using a new small diameter fibreoptic gastroscope. Ruuska T, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):604–8

A pediatrician's views: run or pass? [editorial] Altemeier WA 3rd. **Pediatr Ann** 1997 Apr;26(4):212–3, 217

Gastrointestinal endoscopic procedures in children. Pittman NS, et al. **Pediatr Ann** 1997 Apr;26(4):218–24 (25 ref.)

Bone marrow transplantation in children. Imaging assessment of complications. Benya EC, et al. **Pediatr Clin North Am** 1997 Jun;44(3):741–61 (30 ref.)

Diagnostic imaging in pediatric AIDS. Haller JO, et al. **Pediatr Clin North Am** 1997 Jun;44(3):721–40 (64 ref.)

Recurrent abdominal pain: an update. Boyle JT. **Pediatr Rev** 1997 Sep;18(9):310–20; quiz 321

Belching, bloating, and flatulence. How to help patients who have troublesome abdominal gas. Rao SS. **Postgrad Med** 1997 Apr;101(4):263–9, 275–8 (23 ref.)

Office procedures. Esophagogastroduodenoscopy. Norris TE. **Prim Care** 1997 Jun;24(2):327–40 (26 ref.)

Neonatal gastrointestinal emergencies. Buonomo C. **Radiol Clin North Am** 1997 Jul;35(4):845–64 (72 ref.)

Intra-abdominal manifestations of AIDS. Redvanly RD, et al. **Radiol Clin North Am** 1997 Sep;35(5):1083–125 (148 ref.)

Gastrointestinal emergencies in older infants and children. Sivit CJ. **Radiol Clin North Am** 1997 Jul;35(4):865–77 (60 ref.)

Predicting endoscopic diagnosis in the dyspeptic patient. The value of predictive score models. Bytzer P, et al. **Scand J Gastroenterol** 1997 Feb;32(2):118–25

[Endoscopy, ultrasound and roentgen as a rational complementary system. Exemplified by diseases of the upper gastrointestinal tract] Keim V, et al. **Internist (Berl)** 1996 Aug;37(8):785–92 (50 ref.) **(Ger)**

[Breath tests in intestinal diseases and functional gastrointestinal diagnosis] Lembcke B. **Schweiz Rundsch Med Prax** 1997 Jun 18;86(25–26):1060–7 (10 ref.) (Eng. Abstr.) **(Ger)**

[Clinical aspects, pathophysiology, diagnosis and therapy of gastrointestinal manifestations of progressive systemic scleroderma] Folwaczny C, et al. **Z Gastroenterol** 1996 Aug;34(8):497–508 (119 ref.) (Eng. Abstr.) **(Ger)**

[Primary amyloidosis of the gastrointestinal tract and liver--two case reports] Halm U, et al. **Z Gastroenterol** 1997 Feb;35(2):131–7 (35 ref.) (Eng. Abstr.) **(Ger)**

[Aspiration cytology in gastroenterologic endoscopy] Bene L, et al. **Orv Hetil** 1997 Feb 2;138(5):277–9 (Eng. Abstr.) **(Hun)**

[AIDS in children: diagnostic imaging of pulmonary and abdominal lesions. Review of the literature and personal experience] Cecconi L, et al. **Radiol Med (Torino)** 1997 May;93(5):497–503 (16 ref.) **(Ita)**

DIET THERAPY

Nutrition support in clinical practice: review of published data and recommendations for future research directions. Summary of a conference sponsored by the National Institutes of Health, American Society for Parenteral and Enteral Nutrition, and American Society for Clinical Nutrition. Klein S, et al. **Am J Clin Nutr** 1997 Sep; 66(3):683–706 (257 ref.)

Dietary fiber and the gut: action in gastrointestinal disorders. Maté-Jiménez J, et al. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:3–6

DRUG THERAPY

Review article: the use of botulinum toxin in the alimentary tract. Albanese A, et al. **Aliment Pharmacol Ther** 1995 Dec; 9(6):599–604 (20 ref.)

Review article: safety of bismuth in the treatment of gastrointestinal diseases [see comments] Tillman LA, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):459–67 (60 ref.). Comment in: Aliment Pharmacol Ther 1996 Dec;10(6):1035–6.

Review article: the therapy of gastrointestinal infections associated with the acquired immunodeficiency syndrome. Wilcox CM, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):425–43 (186 ref.)

Treatment of gastrointestinal cytomegalovirus infection with twice-daily foscarnet: a pilot study of safety, efficacy, and pharmacokinetics in patients with AIDS. Dieterich DT, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1226–30

Quantitative systemic and local evaluation of the antiviral effect of ganciclovir and foscarnet induction treatment on human cytomegalovirus gastrointestinal disease of patients with AIDS. Italian Foscarnet GID Study Group. Gerna G, et al. **Antiviral Res** 1997 Mar;34(1):39–50

Antimicrobial management of Helicobacter pylori-associated gastrointestinal tract disease. Guay DR, et al. **Arch Fam Med** 1997 Mar-Apr;6(2):173–80 (00 ref.)

Quinolones in gastrointestinal infections. Graninger W, et al. **Chemotherapy** 1996 Mar;42 Suppl 1:43–53 (84 ref.)

IUPHAR GI section conference: New approaches to pharmacotherapy for hepatic and gastrointestinal inflammatory and ulcerative disorders. Sperlonga, Italy, September 3–7, 1996. Abstracts. **Dig Dis Sci** 1997 Jan; 42(1):195–221

Use of peptide receptor agonists and antagonists for diagnosis and treatment. Jensen RT. **Digestion** 1997;58 Suppl 1:86–93 (26 ref.)

Lansoprazole. An update of its pharmacological properties and clinical efficacy in the management of acid-related disorders. Langtry HD, et al. **Drugs** 1997 Sep;54(3):473–500 (205 ref.)

Hepatotoxicity of drugs used in the treatment of

gastrointestinal disorders. Bashir RM, et al.
Gastroenterol Clin North Am 1995 Dec;24(4):937–67 (213 ref.)

Foscarnet 5 versus 7 days a week treatment for severe gastrointestinal CMV disease in HIV-infected patients. Salzberger B, et al. **Infection** 1996 Mar–Apr;24(2):121–4

Gastrointestinal permeability following cardiopulmonary bypass: a randomised study comparing the effects of dopamine and dopexamine [see comments] Sinclair DG, et al. **Intensive Care Med** 1997 May;23(5):510–6. Comment in: Intensive Care Med 1997 May;23(5):489–92.

Pharmacologic management of common gastrointestinal health problems in women. Brucker MC, et al.
J Nurse Midwifery 1997 May–Jun;42(3):145–62 (95 ref.)

Erythromycin treatment for gastrointestinal dysmotility in preterm infants. Ng PC, et al. **J Paediatr Child Health** 1997 Apr;33(2):148–50

Pharmacotherapy of altered brain–gut interactions in functional gastrointestinal disorders. Clouse RE.
J Pediatr Gastroenterol Nutr 1997;25 Suppl 1:S18–9

Octreotide and the secretory effects of advanced cancer [letter] Harvey FM, et al. **Palliat Med** 1996 Oct;10(4):346–7

Ketotifen in the treatment of changes of the upper part of digestive tract in allergic children. Szczepanowska A, et al. **Rocz Akad Med Bialymst** 1995;40(3):607–12

NSAID treatment of gastrointestinal abnormalities: a challenge to 'cytoprotection' [letter] Morgan G.
Scand J Gastroenterol 1997 Mar;32(3):288

Somatostatin and its analogues in G.I. tract, liver and pancreatic disorders. Dhar A, et al. **Trop Gastroenterol** 1995 Jul–Sep;16(3):3–7 (22 ref.)

Current Perspectives in Acid Inhibitory Therapy. New Haven, Connecticut, November 17–19, 1995. Proceedings of a conference. **Yale J Biol Med** 1996 Jan–Feb;69(1):1–104

Current Perspectives in Acid Inhibitory Therapy. Proceedings of a meeting. New Haven, Connecticut, November 17–19, 1995. **Yale J Biol Med** 1996 May–Jun; 69(3):203–316

[Drug interactions. II. Examples encountered in the treatment of digestive pathologies] Malonne H, et al.
J Pharm Belg 1997 Mar–Apr;52(2):65–8 (40 ref.) **(Fre)**

[Clinical fluconazole and itraconazole resistance of oro–gastrointestinal candidiasis in a patient with AIDS] Tebbe B, et al. **Hautarzt** 1996 Feb;47(2):136–9 (Eng. Abstr.) **(Ger)**

[Glucocorticoids in diseases of the gastrointestinal tract] Bär U. **Internist (Berl)** 1997 May;38(5):488–90 **(Ger)**

[Fungi in feces, fungi in the intestines—therapeutic consequences?] Rösch W. **Versicherungsmedizin** 1996 Dec 1;48(6):215–7 (4 ref.) (Eng. Abstr.) **(Ger)**

[Gastrocepin in the treatment of gastroenterological diseases] Sheptulin AA. **Klin Med (Mosk)** 1996;74(9):13–5 (36 ref.) **(Rus)**

[Current potentialities of Buscopan in clinical practice] Sheptulin AA. **Klin Med (Mosk)** 1997;75(8):55–7 (31 ref.) **(Rus)**

[Fitovit and other medicinal species in the treatment of dysbacteriosis] Kosov VA, et al. **Voen Med Zh** 1996 Sep; 317(9):53–6 **(Rus)**

[Octreotide in the treatment of gastrointestinal disorders (editorial)] Jorquera Plaza F, et al. **Nutr Hosp** 1996 Jul–Aug;11(4):213–4 **(Spa)**

ECONOMICS

Clinical economics review: gastroenterology. Bodger K, et al. **Aliment Pharmacol Ther** 1996 Feb;10(1):55–60 (25 ref.)

Clinical economics review: gastrointestinal disease in primary care. Jones RH. **Aliment Pharmacol Ther** 1996 Jun; 10(3):233–9 (38 ref.)

The risks and costs of upper gastrointestinal disease attributable to NSAIDs. Smalley WE, et al.
Gastroenterol Clin North Am 1996 Jun;25(2):373–96 (99 ref.)

Economic evaluation in gastrointestinal disease. Jönsson B, et al. **Scand J Gastroenterol Suppl** 1996;220:44–51

ENZYMOLOGY

Salivary carbonic anhydrase protects gastroesophageal mucosa from acid injury. Parkkila S, et al. **Dig Dis Sci** 1997 May;42(5):1013–9

Analysis and characteristics of mast cell tryptase and eosinophilic cationic protein from human gut mucosa in gastrointestinal allergy. Raithel M, et al.
Monogr Allergy 1996;32:143–56

EPIDEMIOLOGY

GI complications after orthotopic lung transplantation. Lubetkin EI, et al. **Am J Gastroenterol** 1996 Nov; 91(11):2382–90

High prevalence of chronic gastrointestinal symptoms in a National Guard Unit of Persian Gulf veterans. Sostek MB, et al. **Am J Gastroenterol** 1996 Dec;91(12):2494–7

The effect of gender on the rates of hospitalization for gastrointestinal illnesses. Zarling EJ, et al.
Am J Gastroenterol 1997 Apr;92(4):621–3

Smoking and diseases of the gastrointestinal system: an epidemiological review with special reference to sex differences. Ashley MJ. **Can J Gastroenterol** 1997 May–Jun; 11(4):345–52 (84 ref.)

Gastric emptying in diabetes: an overview. Horowitz M, et al. **Diabet Med** 1996 Sep;13(9 Suppl 5):S16–22 (60 ref.)

The Zurich Study: XXII. Epidemiology of gastrointestinal complaints and comorbidity with anxiety and depression. Hochstrasser B, et al.
Eur Arch Psychiatry Clin Neurosci 1996;246(5):261–72

Epidemiology and association with extra–gastrointestinal diseases. Mégraud F, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):615

The incidence of gastrointestinal symptoms in cardiac surgery patients through six weeks after discharge. Grap MJ, et al. **Heart Lung** 1996 Nov–Dec;25(6):444–50

Epidemiological aspects of NSAID gastropathy. Guslandi M. **Ital J Gastroenterol** 1996 Dec;28 Suppl 4:6–8 (21 ref.)

Dieting severity and gastrointestinal symptoms in college women. Krahn D, et al. **J Am Coll Health** 1996 Sep; 45(2):67–71

An overview of gastrointestinal and hepatobiliary diseases in Thailand. Kullavanijaya P. **J Gastroenterol Hepatol** 1997 May;12(5):S11–2 (10 ref.)

Referral of Asian patients to a GI clinic. Shaw CM, et al. **J Psychosom Res** 1996 Nov;41(5):473–9

A tour in Province [letter] Stacey BS.
J R Army Med Corps 1996 Oct;142(3):129

Epidemiology in gastroenterology. Jørgensen T, et al.
Scand J Gastroenterol Suppl 1996;216:199–207 (52 ref.)

Gastrointestinal posttransplant lymphoproliferative disease in children after small intestinal transplantation. Putnam P, et al. **Transplant Proc** 1996 Oct;28(5):2777

ETIOLOGY

Abnormal intestinal permeability in children with autism. D'Eufemia P, et al. **Acta Paediatr** 1996 Sep;85(9):1076–9

Prevalence of adverse reactions to food in patients with gastrointestinal disease. Bischoff SC, et al. **Allergy** 1996 Nov;51(11):811–8

GI manifestations of Ehlers–Danlos syndrome. Solomon JA, et al. **Am J Gastroenterol** 1996 Nov;91(11):2282–8 (42 ref.)

Severe gastrointestinal complications of dialysis-related amyloidosis in two patients on long–term hemodialysis. Araki H, et al. **Am J Nephrol** 1996;16(2):149–53

The surgical complications of Ehlers–Danlos syndrome. Freeman RK, et al. **Am Surg** 1996 Oct;62(10):869–73 (50 ref.)

Gastrointestinal and nutritional sequelae of bone marrow transplantation. Papadopoulou A, et al. **Arch Dis Child** 1996 Sep;75(3):208–13

Gastrointestinal complications following cardiac surgery. An analysis of 1477 cardiac surgery patients. Perugini RA, et al. **Arch Surg** 1997 Apr;132(4):352–7

Gastrointestinal consequences of left ventricular assist device placement. el–Amir NG, et al. **ASAIO J** 1996 May–Jun; 42(3):150–3

Physiological effects of bulimia nervosa on the gastrointestinal tract. Anderson L, et al.
Can J Gastroenterol 1997 Jul–Aug;11(5):451–9 (79 ref.)

Angiodysplasia of the gastrointestinal tract. Williams CN.
Can J Gastroenterol 1997 Mar;11(2):123

Major differences in the spectrum of gastrointestinal infections associated with AIDS in India versus the west: an autopsy study. Lanjewar DN, et al. **Clin Infect Dis** 1996 Sep;23(3):482–5

The effects of hemodialysis on duodenal and gastric mucosal changes in uremic patients. Var C, et al. **Clin Nephrol** 1996 May;45(5):310–4

Food–associated gastrointestinal disease. James JM, et al.
Curr Opin Pediatr 1996 Oct;8(5):471–5 (27 ref.)

Gastrointestinal features of scleroderma. Sjogren RW.
Curr Opin Rheumatol 1996 Nov;8(6):569–75 (57 ref.)

Gastrointestinal problems in diabetes. Camilleri M.
Endocrinol Metab Clin North Am 1996 Jun;25(2):361–78 (54 ref.)

Abdominal arterial conduits for CABG and GI complications [letter; comment] Hariawala MD.
Eur J Cardiothorac Surg 1997 May;11(5):1001. Comment on: Eur J Cardiothorac Surg 1996;10(9):763–7.

Gastrointestinal complications after orthotopic cardiac transplantation. Sharma S, et al.
Eur J Cardiothorac Surg 1996;10(8):616–20

Gastrointestinal complications after cardiac surgery [see comments] Yilmaz AT, et al. **Eur J Cardiothorac Surg** 1996; 10(9):763–7. Comment in: Eur J Cardiothorac Surg 1997 May;11(5):1001.

Gastrointestinal manifestations in cystic fibrosis. Eggermont E. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):731–8 (84 ref.)

Consensus or confusion: a review of existing national guidelines on Helicobacter pylori–related disease. Lee J, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):527–31 (37 ref.)

Gastrointestinal pathology in HIV–infected patients. Clayton F, et al. **Gastroenterol Clin North Am** 1997 Jun; 26(2):191–240 (237 ref.)

Scurvy and the gastrointestinal tract. Schuman RW, et al. **Gastrointest Endosc** 1997 Feb;45(2):195–6 (11 ref.)

Surviving catastrophic gastrointestinal involvement due to Churg–Strauss syndrome: report of a case. Boggi U, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1169–71

Diffuse gastrointestinal involvement in Henoch–Schonlein purpura [letter] Patel RP, et al. **Indian J Gastroenterol** 1996 Jan;15(1):32

Pepsinogens and gastrointestinal symptoms in mountain marathon runners. Banfi G, et al. **Int J Sports Med** 1996 Nov;17(8):554–8

The Jerusalem 70 year olds longitudinal study: gastrointestinal findings. Eliakim R, et al.
Isr J Med Sci 1996 Aug;32(8):634–8

Gastrointestinal problems and osteogenesis imperfecta [letter] Hensinger RN. **J Bone Joint Surg Am** 1996 Nov;78(11):1785

Endoscopy of the upper gastrointestinal tract as a diagnostic tool for children with human immunodeficiency virus infection. Miller TL, et al. **J Pediatr** 1997 May; 130(5):766–73

Gut Interactions with Brain and Environment in Children. Proceedings of the 1st International Symposium on Pediatric NeuroGastroenterology. Capri, Italy, September 18–20, 1997. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S1–48

Gastrointestinal disorders in muscular dystrophies. Fois A.
J Pediatr Gastroenterol Nutr 1997;25 Suppl 1:S20–1

Autonomic gastroenteric disorders in children due to lesions of cranial nerve nuclei, spinal cord and peripheral innervation. Guzzetta F, et al.
J Pediatr Gastroenterol Nutr 1997;25 Suppl 1:S24–5

Gastrointestinal manifestations. Tanowitz HB, et al.
Med Clin North Am 1996 Nov;80(6):1395–414 (128 ref.)

Food allergy in patients with gastrointestinal disease. Bischoff SC, et al. **Monogr Allergy** 1996;32:130–42 (35 ref.)

Diseases of the gastrointestinal tract of children caused by immune reactions to foods. Sampson HA.
Monogr Allergy 1996;32:36–48 (77 ref.)

Gastrointestinal disorders due to cow's milk consumption. Barnard J. **Pediatr Ann** 1997 Apr;26(4):244–50 (19 ref.)

Gastrointestinal manifestations of cystic fibrosis. Riedel BD.
Pediatr Ann 1997 Apr;26(4):235–41 (28 ref.)

Bone marrow transplantation in children. Imaging assessment of complications. Benya EC, et al.
Pediatr Clin North Am 1997 Jun;44(3):741–61 (30 ref.)

Direct assessment of gastrointestinal inflammation and mucosal immunity in children with cystic fibrosis. Croft NM, et al. **Postgrad Med J** 1996 Mar;72 Suppl 2:S32–6

Gastrointestinal upset in a frequent traveller. Carter A, et al. **Practitioner** 1997 Jan;241(1570):7–9, 11–2

Gastrointestinal tract involvement by gynecologic diseases. Szucs RA, et al. **Radiographics** 1996 Nov;16(6):1251–70; quiz 1461–2

The time course of development of late side effects after irradiation of the prostate with multiple fractions per day. Lievens Y, et al. **Radiother Oncol** 1996 Aug;40(2):147–52

Late radiotherapeutic morbidity in patients with carcinoma of the uterine cervix: the application of the French–Italian glossary. Rodrigus P, et al. **Radiother Oncol** 1996 Aug; 40(2):153–7

Gastrointestinal manifestations of scleroderma. Young MA, et al. **Rheum Dis Clin North Am** 1996 Nov;22(4):797–823 (117 ref.)

The neuroendocrine system and gastrointestinal complications in patients with familial amyloidosis and polyneuropathy. el–Salhy M, et al.
Scand J Gastroenterol 1997 Sep;32(9):849–54 (55 ref.)

Gastrointestinal manifestations of primary immunodeficiency disorders. Lai Ping So A, et al. **Semin Gastrointest Dis** 1997 Jan;8(1):22–32 (75 ref.)

Gastrointestinal dysfunction in neurologic disease. Camilleri M, et al. **Semin Neurol** 1996 Sep;16(3):203–16 (67 ref.)

Late outcome after acute pancreatitis: functional impairment and gastrointestinal tract complications. Fernández–Cruz L, et al. **World J Surg** 1997 Feb;21(2):169–72 (32 ref.)

[Gastrointestinal complications in stem cell transplantation] Karthaus M, et al. **Dtsch Med Wochenschr** 1997 Sep 12; 122(37):1121–7 (41 ref.) **(Ger)**

[Gastroenterology update 1995—II] Layer P, et al.
Med Klin 1996 Jan 15;91(1):20–7 (88 ref.) **(Ger)**

[Acute gastrointestinal side effects in radio–oncology—what is certain in therapy? (letter; comment)] Plasswilm L.
Strahlenther Onkol 1996 Mar;172(3):178–9. Comment on: Strahlenther Onkol 1996 Feb;172(2):53–63. **(Ger)**

[Gastrointestinal problems in elderly patients] Reimann FM, et al. **Z Gerontol Geriatr** 1997 May–Jun;30(3):208–19 (52 ref.) (Eng. Abstr.) **(Ger)**

[Gastrointestinal complications of uremic syndrome] Hirakawa M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):51–5 (24 ref.) **(Jpn)**

[Dysbacteriosis: topical medical problem] Vorobév AA, et al. **Vestn Ross Akad Med Nauk** 1997;(3):4–7 (3 ref.) **(Rus)**

[Infection of the gastrointestinal tract by cytomegalovirus] Coll I, et al. **Gastroenterol Hepatol** 1997 Jun–Jul; 20(6):315–21 (92 ref.) **(Spa)**

[Food allergy and its role in gastrointestinal diseases] Santos Vicente J. **Rev Esp Enferm Dig** 1997 Jul;89(7):551–8 (58 ref.) (Eng. Abstr.) **(Spa)**

GENETICS

Bronchopulmonary–foregut malformations: a continuum of paracrine hamartomas? Kousseff BG, et al.
Am J Med Genet 1997 Jan 10;68(1):12–7 (92 ref.)

Gene therapy: basic concepts and applications in gastrointestinal diseases. Blum HE, et al. **Digestion** 1997; 58(2):87–97 (100 ref.)

Gene level diagnostics in gastroenterology. Göke B.
Digestion 1997;58 Suppl 1:82–5 (2 ref.)

Genetic testing: the time is now [editorial] Rustgi AK, et al. **Gastroenterology** 1997 Jul;113(1):5

[Molecular biology 1996: gastroenterology and hepatology] Blum HE. **Schweiz Rundsch Med Prax** 1997 Jul 16; 86(29–30):1172–7 (44 ref.) (Eng. Abstr.) **(Ger)**

GASTROINTESTINAL DISEASES

HISTORY

[History of gastrointestinal radiology] Swart B. **Radiologe** 1996 Jan;36(1):96–8 **(Ger)**

[Gastroenterologic surgery: 1935–1995] Campuzano Fernández M. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 1):S29–31 **(Spa)**

IMMUNOLOGY

Effects of ethanol consumption on susceptibility to pulmonary and gastrointestinal factors. Mellencamp MA. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):192A–195A

TAG–72 expression in lymph nodes and RIGS [letter; comment] Hitchcock CL, et al. **Dis Colon Rectum** 1996 Apr;39(4):473–5. Comment on: Dis Colon Rectum 1995 Sep;38(9):983–7.

Neutrophils and tumour necrosis factor–alpha are important for controlling early gastrointestinal stages of experimental murine listeriosis. Conlan JW. **J Med Microbiol** 1997 Mar; 46(3):239–50

Diseases of the gastrointestinal tract of children caused by immune reactions to foods. Sampson HA. **Monogr Allergy** 1996;32:36–48 (77 ref.)

ALCAT Test results in the treatment of respiratory and gastrointestinal symptoms, arthritis, skin and central nervous system. Mylek D. **Rocz Akad Med Bialymst** 1995; 40(3):625–9

New approaches to mucosal immunization. Langermann S. **Semin Gastrointest Dis** 1996 Jan;7(1):12–8 (67 ref.)

Basic and clinical overview of the mucosal immune system. Toy LS, et al. **Semin Gastrointest Dis** 1996 Jan;7(1):2–11 (125 ref.)

[The immunomorphology of the mucosa of the bronchi and gastroduodenal zone in children with combined disease of the bronchi and gastrointestinal tract] Novikova AV, et al. **Arkh Patol** 1996 Nov–Dec;58(6):12–6 (Eng. Abstr.) **(Rus)**

METABOLISM

Metabolism of vitamin C in health and disease. Bode AM. **Adv Pharmacol** 1997;38:21–47 (156 ref.)

Treatment of gastrointestinal cytomegalovirus infection with twice–daily foscarnet: a pilot study of safety, efficacy, and pharmacokinetics in patients with AIDS. Dieterich DT, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1226–30

Meeting lipid needs of infants with allergy and gastrointestinal diseases. Moran JR, et al. **Eur J Med Res** 1997 Feb 21;2(2):84–7 (15 ref.)

Isoprostanes—prostaglandin–like compounds formed in vivo independently of cyclooxygenase: use as clinical indicators of oxidant damage. Awad JA, et al. **Gastroenterol Clin North Am** 1996 Jun;25(2):409–27 (76 ref.)

Measurement of faecal alpha 1–antitrypsin: methodologies and clinical application. Choudhary S, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):311–8

Sucrose permeability in children with gastric damage and Helicobacter pylori infection [see comments] Vera JF, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):506–11. Comment in: J Pediatr Gastroenterol Nutr 1997 May;24(5):621–2.

Expression of proliferating cell nuclear antigen in gastrointestinal tract lesions and its relationship to bcl–2 expression. Bell K, et al. **Pathobiology** 1996;64(2):91–8

Short–chain fatty acids in the human colon: relation to gastrointestinal health and disease. Mortensen PB, et al. **Scand J Gastroenterol Suppl** 1996;216:132–48 (50 ref.)

MICROBIOLOGY

Helicobacter pylori duodenal colonization in children. Bonamico M, et al. **Acta Paediatr** 1997 Apr;86(4):356–60

Management of Helicobacter pylori Infection. Proceedings from a 3rd roundtable meeting. Ascot, England, 27–28 June 1996. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:1–115

Helicobacter pylori. Seifrit B. **AORN J** 1997 Mar; 65(3):614–6, 619–20 (36 ref.)

Antimicrobial management of Helicobacter pylori–associated gastrointestinal tract disease. Guay DR, et al. **Arch Fam Med** 1997 Mar–Apr;6(2):173–80 (00 ref.)

Simultaneous multianalyte nucleic acid detection for gastrointestinal bacterial pathogens using GeneSTAR technology. Wu L, et al. **Clin Lab Med** 1997 Mar; 17(1):129–45 (32 ref.)

Rapid genotyping of Escherichia coli O157 isolates by random amplification of polymorphic DNA. Birch M, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):297–302

Comparison of three urease tests for detection of Helicobacter pylori in gastric biopsy specimens. Boyanova L, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):911–4

European Helicobacter pylori Study Group. Xth International Workshop on Gastroduodenal Pathology and Helicobacter pylori. Lisbon, Portugal, 12–14 September 1997. Abstracts. **Gut** 1997;41 Suppl 1:A1–141

Enhanced T–helper 2 lymphocyte responses: immune mechanism of Helicobacter pylori infection. Fan XG, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):37–9 (30 ref.)

Gastric pathology by Helicobacter pylori: recent advances in physiopathology diagnosis and therapy. Naples, Italy, October 20, 1995. Budillon G, et al. **Ital J Gastroenterol** 1996 Jan;28(1):58–9

Brucellosis and the gastrointestinal tract. The odd couple. Ablin J, et al. **J Clin Gastroenterol** 1997 Jan;24(1):25–9

Proceedings of the 1st meeting of the Japanese Research Society for Helicobacter pylori–Related Gastroduodenal Diseases. Tokyo, Japan, April 15–16, 1995. **J Gastroenterol** 1996 Nov;31 Suppl 9:1–82

Infective dyspepsia in a heart transplant recipient. Huwez FU, et al. **J Gastroenterol** 1996 Dec;31(6):848–50

Molecular typing of Helicobacter pylori: differences in pathogenicity among diverse strains. Ito A, et al. **J Gastroenterol** 1996 Feb;31(1):1–5

The 1st Western Pacific Helicobacter Congress. Guangzhou, People's Republic of China. 28 February–1 March 1996. Abstracts. **J Gastroenterol Hepatol** 1996;11 Suppl 1:A1–49

Do the binding properties of oligosaccharides in milk protect human infants from gastrointestinal bacteria? Newburg DS. **J Nutr** 1997 May;127(5 Suppl):980S–984S (18 ref.)

Helicobacter pylori infection and gastric pathology. Cracow, Poland, April 25–26, 1997. Abstracts. **J Physiol Pharmacol** 1997 Mar;48 Suppl 1:1–97

The role of Helicobacter species in newly recognized gastrointestinal tract diseases of animals. Fox JG, et al. **Lab Anim Sci** 1997 Jun;47(3):222–55 (261 ref.)

Gastrointestinal histoplasmosis in a patient with acquired immune deficiency syndrome. Raza J, et al. **Mt Sinai J Med** 1996 Mar;63(2):136–40

Shiga–like toxin–producing Escherichia coli O111 and associated hemolytic–uremic syndrome: a family outbreak. Banatvala N, et al. **Pediatr Infect Dis J** 1996 Nov; 15(11):1008–11

The pH–Hp Challenge—From Mechanism to Management. Proceedings of a symposium. Copenhagen, Denmark, 29 April 1995. **Scand J Gastroenterol Suppl** 1996;215:1–122

The role of Helicobacter pylori in pathogenesis: the spectrum of clinical outcomes. Hunt RH. **Scand J Gastroenterol Suppl** 1996;220:3–9 (69 ref.)

Clinical presentation and diagnosis of gastrointestinal infections by Yersinia enterocolitica in 261 Dutch patients. Stolk–Engelaar VM, et al. **Scand J Infect Dis** 1996; 28(6):571–5

[Helicobacter pylori. Which patients should be examined and treated?] Lauritsen K, et al. **Nord Med** 1997 Jun; 112(6):192–4 (Eng. Abstr.) **(Dan)**

[Connection between Helicobacter pylori infection and chronic gastrointestinal urticaria] Kalas D, et al. **Orv Hetil** 1996 Sep 8;137(36):1969–72 (Eng. Abstr.) **(Hun)**

[Factors in the persistence of opportunistic microorganisms in dysbacteriosis of the gastrointestinal tract] Mitrokhin SD, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug;(4):84–7 (Eng. Abstr.) **(Rus)**

[Helicobacter pylori (letter; comment)] Macipe Costa RM, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):317. Comment on: Med Clin (Barc) 1995 Nov 4;105(15):576–9. **(Spa)**

NURSING

Two phase randomised controlled clinical trial of postoperative oral dietary supplements in surgical patients. Keele AM, et al. **Gut** 1997 Mar;40(3):393–9

PARASITOLOGY

The uncommon gastrointestinal Protozoa: Microsporidia, Blastocystis, Isospora, Dientamoeba, and Balantidium. Weiss LM, et al. **Curr Clin Top Infect Dis** 1997;17:147–87 (261 ref.)

Endoscopy–assisted emergency treatment of gastroduodenal and pancreatobiliary ascariasis. Misra SP, et al. **Endoscopy** 1996 Sep;28(7):629–32

Why do some nematode parasites of the alimentary tract secrete acetylcholinesterase? Lee DL. **Int J Parasitol** 1996 May;26(5):499–508 (91 ref.)

Critical resources that influence habitat selection decisions by gastrointestinal helminth parasites. Sukhdeo MV, et al. **Int J Parasitol** 1996 May;26(5):483–98 (145 ref.)

Detection of the microsporidian parasite Enterocytozoon bieneusi in specimens from patients with AIDS by PCR. Velásquez JN, et al. **J Clin Microbiol** 1996 Dec; 34(12):3230–2

PATHOLOGY

Cytology of gastrointestinal histoplasmosis. A report of two cases with differential diagnosis and diagnostic pitfalls. Mullick SS, et al. **Acta Cytol** 1996 Sep–Oct;40(5):989–94

Helicobacter pylori duodenal colonization in children. Bonamico M, et al. **Acta Paediatr** 1997 Apr;86(4):356–60

Clinical aspects of Crohn's disease of the upper gastrointestinal tract: a comparison with distal Crohn's disease. Wagtmans MJ, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1467–71

Gastrointestinal pathology in patients with common variable immunodeficiency and X–linked agammaglobulinemia. Washington K, et al. **Am J Surg Pathol** 1996 Oct; 20(10):1240–52

Heterotopic bone formation in the gastrointestinal tract. Haque S, et al. **Arch Pathol Lab Med** 1996 Jul;120(7):666–70 (26 ref.)

Survey of gastrointestinal reactions to foods in adults in relation to atopy, presence of mucus in the stools, swelling of joints and arthralgia in patients with gastrointestinal reactions to foods. Bengtsson U, et al. **Clin Exp Allergy** 1996 Dec;26(12):1387–94

Technicalities of endoscopic biopsy. Tytgat GN, et al. **Endoscopy** 1995 Nov;27(9):683–8 (17 ref.)

Measurement of lesions by endoscopy: an overview. Vakil N. **Endoscopy** 1995 Nov;27(9):694–7 (20 ref.)

Fatal diffuse invasive gastrointestinal candidiasis masking as ileus after bone marrow transplantation. DiBaise JK, et al. **J Clin Gastroenterol** 1997 Apr;24(3):165–8

Fine needle aspiration of intra–abdominal masses for cytodiagnosis. Khan AA, et al. **J Indian Med Assoc** 1996 May;94(5):167–8, 194

A comparison of endoscopic and capsule small intestinal biopsy techniques in children with upper gastrointestinal disorders. Eltumi MA, et al. **J Paediatr Child Health** 1996 Jun;32(3):255–6

Gastrointestinal manifestations in pediatric AIDS. Kahn E. **Pediatr Pathol Lab Med** 1997 Mar–Apr;17(2):171–208 (127 ref.)

Apoptosis and gastrointestinal pharmacology. Pritchard DM, et al. **Pharmacol Ther** 1996;72(2):149–69 (230 ref.)

Histological findings in gastroduodenal mucosa in patients with Crohn's disease. Any diagnostic significance? Jaśkiewicz K, et al. **Pol J Pathol** 1996;47(3):115–8

Visceral organ involvement and extracellular matrix changes in beta 2–microglobulin amyloidosis—a comparative study with systemic AA and AL amyloidosis. Ohashi K, et al. **Virchows Arch** 1997 Jun;430(6):479–87

[Tenascin expression in activated lymphatic cells and gastrointestinal tracts] Back W, et al. **Verh Dtsch Ges Pathol** 1996;80:326 **(Ger)**

[Who needs a gastroenterology pathologist? (editorial)] Rugge M, et al. **Pathologica** 1996 Oct;88(5):359–60; discussion 361 **(Ita)**

PHYSIOPATHOLOGY

Apoptosis and the gastrointestinal system. Que F, et al. **Adv Pharmacol** 1997;41:409–28 (81 ref.)

Alcohol and the gastrointestinal tract. Preedy VR. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):48A–50A

Evaluation of delayed gastric emptying in diabetic patients with autonomic neuropathy by a new magnetic resonance imaging technique and radio–opaque markers. Lehmann R, et al. **Diabetes Care** 1996 Oct;19(10):1075–82

Visceral perception in functional gastro–intestinal disorders: disease marker or epiphenomenon? [see comments] Hu WH, et al. **Dig Dis** 1996 Sep–Oct;14(5):276–88 (110 ref.). Comment in: Dig Dis 1996 Sep–Oct;14(5):271–5.

Visceral hyperalgesia: the key for unrevealing functional gastrointestinal disorders [editorial; comment] Rao SS. **Dig Dis** 1996 Sep–Oct;14(5):271–5 (44 ref.). Comment on: Dig Dis 1996 Sep–Oct;14(5):276–88.

Brain–Gut Interactions in Normal and Disordered States. Island of Brac, Supetar, Croatia, September 6–8, 1997. Abstracts. **Dig Dis Sci** 1997 Aug;42(8):1811–20

Analysis of fasting antroduodenal manometry in children. Tomomasa T, et al. **Dig Dis Sci** 1996 Nov;41(11):2195–203

Mediators and pharmacology of visceral sensitivity: from basic to clinical investigations. Bueno L, et al. **Gastroenterology** 1997 May;112(5):1714–43 (329 ref.)

Pharmacotherapy of altered brain–gut interactions in functional gastrointestinal disorders. Clouse RE. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S18–9

Pediatric functional gastrointestinal disorders. Hyman PE, et al. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S11–2

Gastrointestinal manifestations. Tanowitz HB, et al. **Med Clin North Am** 1996 Nov;80(6):1395–414 (128 ref.)

5–Hydroxytryptamine and functional bowel disorders. Sanger GJ. **Neurogastroenterol Motil** 1996 Dec;8(4):319–31 (145 ref.)

Recurrent abdominal pain: an update. Boyle JT. **Pediatr Rev** 1997 Sep;18(9):310–20; quiz 321

Gastrointestinal dysfunction in multiple sclerosis. Fowler CJ, et al. **Semin Neurol** 1996 Sep;16(3):277–9 (13 ref.)

[Intra–individual comparison of gastric peristalsis after ingestion of a semiliquid and solid test meal] Linke R, et al. **Nuklearmedizin** 1997 Jun;36(4):131–6 (Eng. Abstr.) **(Ger)**

[Variation pulsimetry in gastroenterologic patients with obesity in the process of fasting–diet therapy] Kuziv PP, et al. **Fiziol Cheloveka** 1997 Jul–Aug;23(4):139–41 **(Rus)**

[The role of nitric oxide in cardiology and gastroenterology] Zhuravleva IA, et al. **Klin Med (Mosk)** 1997;75(4):18–21 (33 ref.) **(Rus)**

PREVENTION & CONTROL

Health research in the developing world: a gastroenterological view from Bangladesh. Hamilton JR. **Can J Gastroenterol** 1997 Jan–Feb;11(1):94–8 (25 ref.)

Metabolic support of the gastrointestinal tract: potential gut protection during intensive cytotoxic therapy. Wilmore DW. **Cancer** 1997 May 1;79(9):1794–803 (72 ref.)

A stepwise increased dose of auranofin does not influence gastrointestinal side–effects [letter] Johannsen F, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):454–5

Oral glutamine in the prevention of chemotherapy–induced gastrointestinal toxicity [letter] Muscaritoli M, et al. **Eur J Cancer** 1997 Feb;33(2):319–20

A novel approach to reduce the unwanted gastric side–effects of orally administered non–steroidal anti–inflammatory drugs in rats. Balint GA. **Exp Toxicol Pathol** 1997 Feb; 49(1–2):61–3

Risk factors for serious nonsteroidal–induced gastrointestinal complications: regression analysis of the MUCOSA trial. Simon LS, et al. **Fam Med** 1996 Mar;28(3):204–10

NSAIDs, gastrointestinal injury, and cytoprotection. Scheiman JM. **Gastroenterol Clin North Am** 1996 Jun; 25(2):279–98 (94 ref.)

Genetic testing: the time is now [editorial] Rustgi AK, et al. **Gastroenterology** 1997 Jul;113(1):5

Effect of gastric mucosal protection in nonrheumatoid patients with short-term nonsteroidal anti-inflammatory drug therapy: a prospective randomized multicenter study. Miller K. **Hepatogastroenterology** 1997 May–Jun; 44(15):872–9

Gastrointestinal protection by NO from NSAIDs induced injury. Rishi RK, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):377–9 (22 ref.)

Prevention of gastrointestinal diseases. Dhawan PS, et al. **Natl Med J India** 1996 Mar–Apr;9(2):72–5 (68 ref.)

Efficacy of misoprostol in the prophylaxis of gastroduodenal lesions induced by short-term nonsteroidal antiinflammatory drug therapy in elderly patients. A multicenter double-blind, placebo-controlled trial. Piette F, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):259–66

Economic evaluation in gastrointestinal disease. Jönsson B, et al. **Scand J Gastroenterol Suppl** 1996;220:44–51

Helicobacter pylori and gastroduodenal disorders: new approaches for prevention, diagnosis and treatment. Kotloff KL. **Vaccine** 1996 Aug;14(12):1174–5

[Is misoprostol effective in NSAID-induced gastrointestinal complications?] Stucki G, et al. **Schweiz Med Wochenschr** 1996 Sep 14;126(37):1573–8 (26 ref.) (Eng. Abstr.) **(Ger)**

[Side effects of treatment with non-steroidal antiinflammatory agents and ways of their corrections] Grebneva LS, et al. **Klin Med (Mosk)** 1997;75(5):42–5 (45 ref.) **(Rus)**

[Fiber gastroscopy as the first stage in screening for diseases of the upper gastrointestinal tract] Korotkevich AG, et al. **Vestn Khir Im I I Grek** 1996;155(4):81–3 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Pediatric functional gastrointestinal disorders. Hyman PE, et al. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S11–2

Short gut syndrome, tricyclic antidepressants, and prolonged QT interval syndromes [letter] DiMartini A. **Psychosomatics** 1997 Jul–Aug;38(4):401–2

Evaluating the psychometric characteristics of the Psychological General Well-Being Index with a new response scale. Revicki DA, et al. **Qual Life Res** 1996 Aug; 5(4):419–25

The role of psychosocial factors in gastrointestinal illness. Drossman DA. **Scand J Gastroenterol Suppl** 1996;221:1–4

[Emotional-personality condition of patients with some gastroenterological diseases] Solov'eva AD, et al. **Klin Med (Mosk)** 1997;75(1):27–8 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

CT Imaging of acute right lower quadrant disease. Duran JC, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):411–6

Gastrointestinal involvement in Henoch-Schönlein syndrome: CT findings. Jeong YK, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):965–8

Radiographic imaging modalities for the patient in the emergency department with abdominal complaints. Billittier AJ, et al. **Emerg Med Clin North Am** 1996 Nov; 14(4):789–850 (254 ref.)

Gastrointestinal tract involvement by gynecologic diseases. Szucs RA, et al. **Radiographics** 1996 Nov;16(6):1251–70; quiz 1461–2

[Tomographic study of the intra-abdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Coche G, et al. **J Radiol** 1996 Sep; 77(9):611–36 (45 ref.) (Eng. Abstr.) **(Fre)**

[Comments on the general review: tomographic study of the intrabdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Régent D, et al. **J Radiol** 1996 Sep;77(9):637–42 **(Fre)**

[1995 literature review: radiology of the esophagus, stomach and intestines] Aschoff AJ. **Rontgenpraxis** 1996 Feb; 49(2):37–42 (48 ref.) **(Ger)**

[Usefulness of pirenzepine in the study of the upper digestive tract and the large intestine with double contrast media: comparison with scopolamine methylbromide] Braccini G, et al. **Radiol Med (Torino)** 1996 Dec;92(6):733–7 (Eng. Abstr.) **(Ita)**

[Diagnostic accuracy of teleradiology in thoracic and abdominal diseases] Niccolai F, et al. **Radiol Med (Torino)** 1997 May;93(5):591–4 (Eng. Abstr.) **(Ita)**

[Clinical usefulness of trans-brachial angiography for abdominal diseases] Mutou H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):846–54 (Eng. Abstr.) **(Jpn)**

[Use of ultravist to examine the gastrointestinal tract in patients with emergency abdominal pathology] Beresneva EA, et al. **Vestn Rentgenol Radiol** 1997 May–Jun;(3):51–2 (Eng. Abstr.) **(Rus)**

[Radiologic digestive manifestations in patients with antibody deficiency] Alonso Falcón F, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):593–7 (Eng. Abstr.) **(Spa)**

RADIONUCLIDE IMAGING

[A role of radionuclide studies for gastrointestinal and hepatobiliary diseases] Koizumi K. **Kaku Igaku** 1996 Jul; 33(7):785–9 (12 ref.) (Eng. Abstr.) **(Jpn)**

REHABILITATION

[Gastroenterologic and hepatologic rehabilitation today—on changes in indications and contents] Zillessen E. **Z Arztl Fortbild (Jena)** 1996 Oct;90(6):487–93 (19 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Avoiding GI surgery in the elderly: a misguided paterdistic assumption? Baillie J. **Am J Gastroenterol** 1997 Jan; 92(1):176–7

Gut barrier function in the surgical patient. Reynolds JV. **Br J Surg** 1996 Dec;83(12):1668–9

Future perspectives of minimal invasive surgery. Fuchs KH, et al. **Digestion** 1997;58 Suppl 1:104–6 (6 ref.)

Endoscopic sewing and stapling machines. Swain CP. **Endoscopy** 1997 Mar;29(3):205–10

Argon plasma coagulation in flexible gastrointestinal endoscopy: pilot experiences [see comments] Wahab PJ, et al. **Endoscopy** 1997 Mar;29(3):176–81. Comment in: Endoscopy 1997 Mar;29(3):196–8.

Duration of Antibiotic Treatment in Surgical Infections of the Abdomen. Discussion forum for attaining consensus. **Eur J Surg Suppl** 1996;(576):1–75 (184 ref.)

Determination of endotoxin-neutralizing capacity of plasma in postsurgical patients. Berger D, et al. **Eur Surg Res** 1996; 28(2):130–9

Influence of postoperative enteral nutrition on postsurgical infections. Beier-Holgersen R, et al. **Gut** 1996 Dec; 39(96):833–5

Emergency operations in the elderly: management and outcome. Karanikas ID, et al. **Int Surg** 1996 Apr–Jun; 81(2):158–62

What's new in pediatric surgery. Schwartz MZ. **J Am Coll Surg** 1997 Feb;184(2):181–6 (35 ref.)

The order of ward rounds influences nosocomial infection. A 2-year study in gastroenterologic surgery patients. Yoshida J, et al. **J Gastroenterol** 1995 Dec;30(6):718–24

Laparoscopic surgery. Bornman PC. **Scand J Gastroenterol Suppl** 1996;220:66–70 (28 ref.)

Prophylaxis against postoperative complications in gastroenterology. Kehlet H, et al. **Scand J Gastroenterol Suppl** 1996;216:218–24 (74 ref.)

Laparoscopic percutaneous jejunostomy for long term enteral access. Hotokezaka M, et al. **Surg Endosc** 1996 Oct; 10(10):1008–11

Surgical stress inhibits the growth of fibroblasts through the elevation of plasma catecholamine and cortisol concentrations. Saito T, et al. **Surg Today** 1997;27(7):627–31

Abdominal aortic aneurysm combined with a second intraabdominal non vascular disease—a clinical study and surgical treatment. Dimakakos PB, et al. **Swiss Surg** 1996; 2(5):215–8

Possible benefit of preoperative blood deposit for abdominal surgery. Flordal PA, et al. **World J Surg** 1997 May; 21(4):349–52

[Transendoscopic drug denervation of the stomach in emergency surgical diseases of the gastrointestinal tract (a preliminary report)] Gerzilov P, et al. **Khirurgiia (Sofiia)** 1996;49(6):17–8 (Eng. Abstr.) **(Bul)**

[Abdominal surgery—value of endoscopic interventions. For which indications is laparoscopic procedure the standard already today?] Mappes HJ, et al. **Fortschr Med** 1997 Mar 20;115(8):33–4 **(Ger)**

[Long-term results of abdominal surgery interventions. Different evaluation from the viewpoint of the patient, the surgeon and the public health office] Scherwitz P, et al. **Langenbecks Arch Chir** 1997;382(1):19–24 (Eng. Abstr.) **(Ger)**

[Synergistic effects of intracavitary and endoluminal endoscopic surgery] Schippers E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:767–9 (Eng. Abstr.) **(Ger)**

[Cost savings with preoperative ambulatory diagnosis in elective gastrointestinal operations (letter)] Eisold H. **Leber Magen Darm** 1996 Nov;26(6):326–7 **(Ger)**

[Perioperative standards for prevention of anastomotic insufficiency] Waldner H, et al. **Zentralbl Chir** 1997; 122(1):25–8 (25 ref.) (Eng. Abstr.) **(Ger)**

[Concepts for recognition and securing anastomotic wound dehiscence of the gastrointestinal tract] Zirngibl H, et al. **Zentralbl Chir** 1997;122(1):20–4 (21 ref.) (Eng. Abstr.) **(Ger)**

[Role of dysbacteriosis in the development of surgical infection] Saitov MM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):17–9 (Eng. Abstr.) **(Rus)**

[The choice of anesthesia methods in abdominal surgery is decisive for patients' recovery when it comes to eating again. Opinion should be avoided] Wattwil M, et al. **Lakartidningen** 1997 Apr 9;94(15):1376, 1379–80 (15 ref.) **(Swe)**

THERAPY

Review article: critical review of meta-analyses of randomized clinical trials in hepatogastroenterology. Auperin A, et al. **Aliment Pharmacol Ther** 1997 Apr; 11(2):215–25 (97 ref.)

Clinical economics review: gastrointestinal disease in primary care. Jones RH. **Aliment Pharmacol Ther** 1996 Jun; 10(3):233–9 (38 ref.)

Gastrointestinal uses of botulinum toxin. Bhutani MS. **Am J Gastroenterol** 1997 Jun;92(6):929–33 (52 ref.)

Practice guidelines: why do we need them? Cockeram A. **Can J Gastroenterol** 1997 Jul–Aug;11(5):427–8

Management of the colicky infant. Berkowitz CD. **Compr Ther** 1997 Apr;23(4):277–80 (25 ref.)

Diabetic gastrointestinal autonomic neuropathy. Karras PJ, et al. **Curr Ther Endocrinol Metab** 1997;6:462–5 (0 ref.)

Gene therapy: basic concepts and applications in gastrointestinal diseases. Blum HE, et al. **Digestion** 1997; 58(2):87–97 (100 ref.)

Future perspectives in gastroenterology: laser. Riemann JF. **Digestion** 1997;58 Suppl 1:101–3 (21 ref.)

Endoscopy-assisted emergency treatment of gastroduodenal and pancreatobiliary ascariasis. Misra SP, et al. **Endoscopy** 1996 Sep;28(7):629–32

Use of hypnotherapy in gastrointestinal disorders. Francis CY, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):525–9 (30 ref.)

Storming the gates (the gatekeeper) [news] **Gastroenterology** 1997 Jun;112(6):1784

Endoscopic resection of gastrointestinal submucosal lesions: a comparison between strip biopsy and aspiration lumpectomy. Kajiyama T, et al. **Gastrointest Endosc** 1996 Oct;44(4):404–10

Outpatient therapeutic ERCP: a series of 262 consecutive cases. Mehta SN, et al. **Gastrointest Endosc** 1996 Oct; 44(4):443–9

Diagnostic and therapeutic endosonography: endoscopic ultrasound-guided fine-needle aspiration in clinical practice [editorial; comment] Stotland BR, et al. **Gastrointest Endosc** 1997 Mar;45(3):329–31. Comment on: Gastrointest Endosc 1997 Mar;45(3):243–50.

Symposium on endoscopic hemostasis in gastric disease. 6. Studies of the medical effectiveness of endoscopic treatment. Suzuki S, et al. **Intern Med** 1997 Feb;36(2):133–5

Oxides, onions, and other matters gastrointestinal—1996—a perspective. Kapadia CR. **J Clin Gastroenterol** 1997 Apr; 24(3):133–9 (50 ref.)

Gastroenterology and hepatology. Peterson WL, et al. **JAMA** 1997 Jun 18;277(23):1858–60

Human gene therapy in gastrointestinal diseases: in vivo and in vitro approaches. Kaiser R, et al. **Recent Results Cancer Res** 1996;142:51–61 (49 ref.)

The randomized controlled clinical trial in gastroenterology: the Danish contributions from 1970 to 1994. Lauritsen K, et al. **Scand J Gastroenterol Suppl** 1996;216:181–98

Management of upper gastrointestinal tract dysfunction. Nowak TV. **Semin Neurol** 1996 Sep;16(3):281–8 (44 ref.)

Current status of home parenteral nutrition in the United States. Howard L, et al. **Transplant Proc** 1996 Oct; 28(5):2691–5 (6 ref.)

[New techniques in gastroenterologic endoscopy] Hagenmüller F, et al. **Internist (Berl)** 1996 Aug; 37(8):775–84 (37 ref.) **(Ger)**

[An old female case of vero-cytotoxin-producing Escherichia coli O-157: H7 infection] Takaki Y, et al. **Fukuoka Igaku Zasshi** 1997 Apr;88(4):128–31 (Eng. Abstr.) **(Jpn)**

[Terminal care. II. Easing of symptoms of cancer patients. 5. Management of adverse effects of antineoplastic agents] Kurihara M, et al. **Nippon Naika Gakkai Zasshi** 1996 Dec 10;85(12):2032–8 (5 ref.) **(Jpn)**

[Gastrointestinal tract paralysis in surgery and methods for its treatment] Smirnova VI, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):71–3 (39 ref.) **(Rus)**

[A system of patient monitoring at intensive gastrointestinal care units] Gasparian SA, et al. **Med Tekh** 1996 Nov–Dec; (6):33–7 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Development of an oral contrast agent for sonography: clinical and economic considerations. LaFrance ND, et al. **Acad Radiol** 1996 Apr;3 Suppl 1:S160–1

More EUS questions: what is the impact of EUS impact studies? Sahai AV, et al. **Am J Gastroenterol** 1997 Apr; 92(4):717–8

Endoscopic ultrasonography in upper gastrointestinal and pancreatic disease. Rösch T. **Digestion** 1997;58 Suppl 1:76–8 (0 ref.)

Endoscopic ultrasound. Wassef W, et al. **Gastroenterologist** 1997 Jun;5(2):165–72 (67 ref.)

10th International Symposium on Endoscopic Ultrasonography. Proceedings and abstracts. Cleveland, Ohio, October 25–27, 1995. **Gastrointest Endosc** 1996 Feb; 43(2 Pt 2):S1–64

Indications, contraindications, and complications of endoscopic ultrasonography. Lightdale CJ. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S15–9

Progress in endoscopic ultrasonography [editorial] Lightdale CJ. **Gastrointest Endosc** 1996 Jan;43(1):79–80

Clinical implications of endoscopic ultrasound: the American Endosonography Club Study [see comments] Nicki NJ, et al. **Gastrointest Endosc** 1996 Oct;44(4):371–7. Comment in: Gastrointest Endosc 1996 Oct;44(4):502–4.

Endoscopic ultrasonography artifacts and problems of interpretation. Rosch T. **Gastrointest Endosc** 1996 Feb;43(2

Pt 2):S10–2
Transendoscopic ultrasonography during conventional upper gastrointestinal endoscopy. Clinical evaluation of a linear 20-MHz probe system. Nesje LB, et al. **Scand J Gastroenterol** 1997 May;32(5):500–8
The prenatal sonographic appearance of enteric duplication cysts. Richards DS, et al. **Ultrasound Obstet Gynecol** 1996 Jan;7(1):17–20 (18 ref.)
[Tomographic study of the intra-abdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Coche G, et al. **J Radiol** 1996 Sep; 77(9):611–36 (45 ref.) (Eng. Abstr.) **(Fre)**
[Comments on the general review: tomographic study of the intrabdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Régent D, et al. **J Radiol** 1996 Sep;77(9):637–42 **(Fre)**
[Possibilities and limitations in endosonography of the gastrointestinal tract] Schmassmann A. **Ther Umsch** 1997 Jan;54(1):31–6 (Eng. Abstr.) **(Ger)**

VETERINARY

Efficacy of doramectin for treatment of experimentally induced infection with gastrointestinal nematodes in calves. Couvillion CE, et al. **Am J Vet Res** 1997 Mar;58(3):282–5
Field evaluation of doramectin for treatment of gastrointestinal nematode infections and louse infestations of cattle. Phillips FE, et al. **Am J Vet Res** 1996 Oct; 57(10):1468–71
An evaluation of the use of cisapride in horses with chronic grass sickness (equine dysautonomia) [see comments] Milne EM, et al. **Br Vet J** 1996 Sep;152(5):537–49. Comment in: Br Vet J 1996 Sep;152(5):497–9.
Diagnostic aids and prognostic indicators for chronic grass sickness: possibilities for the future [editorial; comment] Murphy D, et al. **Br Vet J** 1996 Sep;152(5):497–9. Comment on: Br Vet J 1996 Sep;152(5):537–49.
Rectal biopsy--a piece of the diagnostic jigsaw puzzle [editorial; comment] Ricketts SW. **Equine Vet J** 1996 Jul; 28(4):254–5. Comment on: Equine Vet J 1996 Jul;28(4):275–84.
Antibody titres to core lipopolysaccharides in horses with gastrointestinal disorders which cause colic. Morris DD, et al. **Equine Vet J Suppl** 1989 Jun;(7):29–32
Implications of nutrition for the ability of ruminants to withstand gastrointestinal nematode infections. van Houtert MF, et al. **Int J Parasitol** 1996 Nov;26(11):1151–67 (167 ref.)
The effect of hetastarch on serum colloid oncotic pressure in hypoalbuminemic dogs. Moore LE, et al. **J Vet Intern Med** 1996 Sep–Oct;10(5):300–3
The role of Helicobacter species in newly recognized gastrointestinal tract diseases of animals. Fox JG, et al. **Lab Anim Sci** 1997 Jun;47(3):222–55 (261 ref.)
Managing gastrointestinal complications of uremia. Krawiec DR. **Vet Clin North Am Small Anim Pract** 1996 Nov; 26(6):1287–92 (11 ref.)
Comparative susceptibility of Pyrenean and Brown Swiss calves to gastrointestinal nematodes in subclinical naturally acquired infections. Almería S, et al. **Vet Parasitol** 1996 Jun;63(3–4):345–53
Monthly fluctuations of worm burdens and hypobiosis of gastrointestinal nematodes of calves in extensive management systems in the Pyrenees (Spain). Almería S, et al. **Vet Parasitol** 1996 Dec 31;67(3–4):225–36
Efficacy of moxidectin as a 1% injectable solution and a 0.1% oral drench against nasal bots, pulmonary and gastrointestinal nematodes in sheep. Dorchies P, et al. **Vet Parasitol** 1996 Oct 15;65(1–2):163–8
Efficacy of moxidectin 0.5% pour-on against naturally acquired nematode infections in cattle. Morin D, et al. **Vet Parasitol** 1996 Oct 15;65(1–2):75–81
The epidemiology of gastrointestinal nematode infections in communal cattle and commercial beef cattle on the highveld of Zimbabwe. Moyo DZ, et al. **Vet Parasitol** 1996 Dec 2;67(1–2):105–20
Production of dairy replacement stock in relation to level of exposure to gastrointestinal nematode infection in the first grazing season: second-year calves and heifers. Ploeger HW, et al. **Vet Parasitol** 1996 Oct 15; 65(1–2):99–115
Variation in infection levels with gastrointestinal nematodes in first-year grazing calves in The Netherlands. Poot J, et al. **Vet Parasitol** 1997 Jan;68(1–2):103–11
Immunisation of sheep by drug-abbreviated infections of Ostertagia circumcincta and Trichostrongylus colubriformis against field challenge of gastro-intestinal nematodes. Stankiewicz M, et al. **Vet Parasitol** 1996 Dec 2;67(1–2):121–32
The influence of stocking rate on gastrointestinal nematode infections of sheep over a 2-year grazing period. Thamsborg SM, et al. **Vet Parasitol** 1996 Dec 31; 67(3–4):207–24
Effect of strategic gastrointestinal nematode control on growth of N'Dama cattle in Gambia. Zinsstag J, et al. **Vet Parasitol** 1997 Jan;68(1–2):143–53
Evaluation of the persistence of the effect of ivermectin and abamectin against gastrointestinal and pulmonary nematodes in cattle. Barth D, et al. **Vet Rec** 1997 Mar 15; 140(11):278–9
Observations on the epidemiology of gastrointestinal nematodes of farmed red deer in central southern England [published erratum appears in Vet Rec 1996 Sep 28;139(13):321] Connan RM. **Vet Rec** 1996 Sep 7; 139(10):228–32
Mortality in cattle up to two years old in Northern Ireland during 1992. Menzies FD, et al. **Vet Rec** 1996 Jun 22; 138(25):618–22
Effect of forage supplements on the incidence of bloat in dairy cows grazing high clover pastures. Phillips CJ, et al. **Vet Rec** 1996 Aug 17;139(7):162–5
Acute encephalopathy in a horse: toxic differentials [letter; comment] Villar D. **Vet Rec** 1996 Aug 24;139(8):195–6. Comment on: Vet Rec 1995 Dec 16;137(25):642–3.
In vivo studies on lysosubtilin. I. Efficacy for prophylaxis and treatment of gastrointestinal disorders in newborn calves. Biziulevichius GA, et al. **Vet Res** 1997;28(1):19–35
A survey of anthelmintic resistance by nematodes on three sheep and two goat farms in Hisar (India). Singh S, et al. **Vet Res Commun** 1997 Aug;21(6):447–51
Drugs coordinating and restoring gastrointestinal motility and their effect on selected hypodynamic gastrointestinal disorders in horses and cattle. Steiner A, et al. **Zentralbl Veterinarmed A** 1995 Dec;42(10):613–31 (126 ref.)
[Frequency and etiology of calf losses and calf diseases in cow-calf farms. III. seroprevalence of selected diseases and prevalence of endoparasites and weaning age] Busato A, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jun; 104(6):191–5 (Eng. Abstr.) **(Ger)**
[Use of a Coffea arabica tosta extract for the prevention and therapy of polyfactorial infectious diseases in newborn calves] Ponepal V, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct;103(10):390–4 (Eng. Abstr.) **(Ger)**
[Case report: tympany and diarrhea in calves] Zentek J. **DTW Dtsch Tierarztl Wochenschr** 1997 Apr;104(4):153–5 (Eng. Abstr.) **(Ger)**

VIROLOGY

Foscarnet 5 versus 7 days a week treatment for severe gastrointestinal CMV disease in HIV-infected patients. Salzberger B, et al. **Infection** 1996 Mar–Apr;24(2):121–4

GASTROINTESTINAL HEMORRHAGE

see related

HEMOSTASIS, ENDOSCOPIC

Upper gastrointestinal hemorrhage in the hospitalized patient: causes, features and prognosis in the era of endoscopic hemostasis. Zimmerman J. **Acta Gastroenterol Belg** 1996 Oct–Dec;59(4):234–6 (14 ref.)
Hemorrhage in the upper gastrointestinal tract in the older patient. Segal WN, et al. **Am J Gastroenterol** 1997 Jan; 92(1):42–6
BLEED: a classification tool to predict outcomes in patients with acute upper and lower gastrointestinal hemorrhage [see comments] Kollef MH, et al. **Crit Care Med** 1997 Jul; 25(7):1125–32. Comment in: Crit Care Med 1997 Jul;25(7):1101–2.
Upper gastrointestinal hemorrhage--comparison of the causes and prognosis in primary and secondary bleeders. Lievens MW, et al. **Gastrointest Endosc** 1996 Jan;43(1):85–6
Push enteroscopy and heater probe therapy for small bowel bleeding. Morris AJ, et al. **Gastrointest Endosc** 1996 Oct; 44(4):394–7
Occult gastrointestinal bleeding. General overview and approach. Mujica VR, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):833–45 (43 ref.)
Endovascular diagnosis and treatment of profuse esophageal bleeding in patients with portal hypertension. Karimov SI. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1206–9
Gastrointestinal bleeding in children. Yachha SK, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):903–7
History of visible rectal bleeding in a primary care population. Initial assessment and 10-year follow-up. Helfand M, et al. **JAMA** 1997 Jan 1;277(1):44–8
A 34-year-old man with recurrent melaena after renal transplantation [clinical conference] Cariem AK, et al. **S Afr Med J** 1996 Oct;86(10):1284–8
Somatostatin in the treatment of gastrointestinal bleeding caused by angiodysplasia. Andersen MR, et al. **Scand J Gastroenterol** 1996 Oct;31(10):1037–9
[Alveolar hemorrhage, skin eruption, and gastrointestinal bleeding accompanied by crescentric glomerulonephritis in a patient with cytoplasmic anti-neutrophil cytoplasmic antibody] Kishimoto N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):790–5 (Eng. Abstr.) **(Jpn)**

BLOOD

Bleeding time and concentrations of von Willebrand factor in patients with acute upper gastrointestinal bleeding. Henriksson AE, et al. **Eur J Surg** 1996 Aug;162(8):627–31
Decreased plasma isoleucine concentrations after upper gastrointestinal haemorrhage in humans. Dejong CH, et al. **Gut** 1996 Jul;39(1):13–7
Association between high values of D-dimer and tissue-plasminogen activator activity and first gastrointestinal bleeding in cirrhotic patients. CALC Group. Violl F, et al. **Thromb Haemost** 1996 Aug; 76(2):177–83
Haemostasis studies related to gastric abdominal haemorrhages. Platonova TN, et al. **Ukr Biokhim Zh** 1996 Jul-Aug;68(4):22–4

CHEMICALLY INDUCED

Fatal haemorrhagic gastritis associated with oral sulindac treatment for patent ductus arteriosus. Ng PC, et al. **Acta Paediatr** 1996 Jul;85(7):884–6
Gastric microbleeding following single and repeated dosing with naproxen. McAlindon ME, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):655–9
Do calcium antagonists cause death, gastrointestinal bleeding, and cancer? [editorial] Kaplan NM. **Am J Cardiol** 1996 Oct 15;78(8):932–3
Lethal interaction of clozapine and buspirone? [letter] Good MI. **Am J Psychiatry** 1997 Oct;154(10):1472–3
Patient awareness of the adverse effects of non-steroidal anti-inflammatory drugs (NSAIDs). Wynne HA, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):253–6
Association of nonsteroidal antiinflammatory drugs with outcome in upper and lower gastrointestinal bleeding. Wilcox CM, et al. **Dig Dis Sci** 1997 May;42(5):985–9
Nonsteroidal antiinflammatory drugs are associated with both upper and lower gastrointestinal bleeding. Wilcox CM, et al. **Dig Dis Sci** 1997 May;42(5):990–7
Effect of combined anticoagulation and low-dose aspirin treatment on upper gastrointestinal bleeding. Younossi ZM, et al. **Dig Dis Sci** 1997 Jan;42(1):79–82
Misoprostol-associated platelet aggregation dysfunction and increased gastrointestinal blood loss. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):91–2
Management of acute gastrointestinal hemorrhage in anticoagulated patients. Choudari CP. **Gastroenterologist** 1997 Sep;5(3):242–6 (32 ref.)
Calcium channel blockers and gastrointestinal hemorrhage: more bad press? Grimm I, et al. **Gastroenterology** 1996 Nov; 111(5):1391–3
Aspirin related gastrointestinal bleeders have an exaggerated bleeding time response due to aspirin use. Lanas AI, et al. **Gut** 1996 Nov;39(5):654–60
GI effects of OTC analgesics: implications for product selection. Garnett WR. **J Am Pharm Assoc (Wash)** 1996 Sep;NS36(9):565–72
A cohort study (with re-sampled comparator groups) to measure the association between new NSAID prescribing and upper gastrointestinal hemorrhage and perforation. McMahon AD, et al. **J Clin Epidemiol** 1997 Mar; 50(3):351–6
Improving drug use in rheumatic disorders. Peterson GM, et al. **J Clin Pharm Ther** 1996 Aug;21(4):215–20
NSAIDs increase risk of gastrointestinal bleeding in primary care patients with dyspepsia. Kurata JH, et al. **J Fam Pract** 1997 Sep;45(3):227–35
Aspirin preparation and risk of GI bleeding. Rao G. **J Fam Pract** 1997 Mar;44(3):242–3
Case report: gastrointestinal haemorrhage from jejunal diverticulosis, probably induced by low dose aspirin. Kaushik SP, et al. **J Gastroenterol Hepatol** 1996 Oct; 11(10):908–10
Non-steroidal anti-inflammatory drugs and variceal bleeding: a case-control study. de Lédinghen V, et al. **J Hepatol** 1996 May;24(5):570–3
Gastrointestinal bleeding following ketorolac administration in a pediatric patient. Alcaraz A, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):479–81
Hemolytic uremic syndrome following hemorrhagic colitis caused by verotoxin-producing Escherichia coli 0157:H7: early signs of hemolytic uremic syndrome. Tsuji A, et al. **Keio J Med** 1996 Mar;45(1):44–7
Gastric safety and enteric-coated aspirin [letter; comment] Guslandi M. **Lancet** 1997 Feb 8;349(9049):431. Comment on: Lancet 1996 Nov 23;348(9039):1413–6.
Risk of aspirin-associated major upper-gastrointestinal bleeding with enteric-coated or buffered product [see comments] Kelly JP, et al. **Lancet** 1996 Nov 23; 348(9039):1413–6. Comment in: Lancet 1996 Nov 23;348(9039):1394–5. Comment in: Lancet 1997 Feb 8;349(9049):430–1. Comment in: Lancet 1997 Feb 8;349(9049):431.
Gastric safety and enteric-coated aspirin [letter; comment] Petroski D. **Lancet** 1997 Feb 8;349(9049):430–1. Comment on: Lancet 1996 Nov 23;348(9039):1413–6.
Gastric safety and enteric-coated aspirin [letter] Sullivan JL. **Lancet** 1997 Feb 8;349(9049):431–2
Nontraumatic intramural hematoma of the duodenum complicating warfarin therapy. Gutstein DE, et al. **Mt Sinai J Med** 1997 Sep–Oct;64(4–5):339–41
Analysis of the risks associated with calcium channel blockade: implications for the obstetrician-gynecologist. Davis WB, et al. **Obstet Gynecol Surv** 1997 Mar; 52(3):198–201 (18 ref.)
Acute gastrointestinal toxic effects of suspensions of unencapsulated and encapsulated ibuprofen in rats. Adeyeye CM, et al. **Pharm Res** 1996 May;13(5):784–93
Is there a relationship between the use of analgesics and non-steroidal anti-inflammatory drugs and acute upper gastrointestinal bleeding? A Finnish case-control prospective study. Matikainen M, et al. **Scand J Gastroenterol** 1996 Sep;31(9):912–6
[Acetylsalicylic acid and gastrointestinal hemorrhages: preferably a lower dosage] Tytgat GN, et al. **Ned Tijdschr Geneeskd** 1996 Nov 9;140(45):2219–23 (32 ref.) **(Dut)**
[Caustic proctitis after lavage: an African cause of rectal

hemorrhage (letter)] Ilboudo D, et al. **Med Trop (Mars)** 1996;56(2):204–5 **(Fre)**

COMPLICATIONS

Intramural hematoma of the esophagus: ED diagnosis and treatment [letter] Ho CL, et al. **Am J Emerg Med** 1997 May;15(3):322–3

Human immunodeficiency virus infection in Mexico City. Rectal bleeding and anal warts as risk factors among men reporting sex with men. Coplan PM, et al. **Am J Epidemiol** 1996 Nov 1;144(9):817–27

Diverticular bleeding and the pigmented protuberance (sentinel clot): clinical implications, histopathological correlation, and results of endoscopic intervention. Foutch PG, et al. **Am J Gastroenterol** 1996 Dec;91(12):2589–93

Haemorrhage into a duodenal cyst with ectopic gastric epithelium, a rare cause of gastric outlet obstruction in an adult. Sand J, et al. **Ann Chir Gynaecol** 1997;86(1):76–8

A prospective study of the gastroenterological causes of iron deficiency anaemia in a general hospital. Bampton PA, et al. **Aust N Z J Med** 1996 Dec;26(6):793–9

Prospective, randomized trial of hypertonic glucose water and sodium tetradecyl sulfate for gastric variceal bleeding in patients with advanced liver cirrhosis. Chang KY, et al. **Endoscopy** 1996 Aug;28(6):481–6

Systemic antibiotic prophylaxis after gastrointestinal hemorrhage in cirrhotic patients with a high risk of infection. Pauwels A, et al. **Hepatology** 1996 Oct; 24(4):802–6

Gastrointestinal angiodysplasia in constitutional thrombocytopathies [letter; comment] Bellucci S, et al. **Int J Hematol** 1997 Jun;65(4):419–20. Comment on: Int J Hematol 1996 Dec;65(1):79–84.

Endoscopic sclerotherapy versus variceal ligation in the long-term management of patients with cirrhosis after variceal bleeding. A prospective randomized study. Avgerinos A, et al. **J Hepatol** 1997 May;26(5):1034–41

Colonoscopy for frank bloody stools associated with cancer chemotherapy. Yokoyama T, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):111–4

Iron deficiency anemia, backache, and abdominal pain attacks during sexual intercourse in a 42-year-old woman. Mulari S, et al. **Scand J Gastroenterol** 1996 Jun;31(6):622–3

Colonic stricture in cystic fibrosis unmasked by successful transjugular intrahepatic portosystemic stent shunt (TIPSS). Ong TJ, et al. **Scott Med J** 1996 Aug;41(4):113–4

[Heyde syndrome] Larsen NH. **Ugeskr Laeger** 1997 Jul 21; 159(30):4628–30 (29 ref.) (Eng. Abstr.) **(Dan)**

[Massive trabecular adenoma of the liver complicated with bleeding from esophageal varicosities] Shmurun RI. **Vopr Onkol** 1996;42(4):89–90 **(Rus)**

DIAGNOSIS

The wide-channel endoscope optimizes the success of emergency endoscopy. Hintze RE, et al. **Acta Gastroenterol Belg** 1996 Oct–Dec;59(4):237–9

Stool appearance in intussusception: assessing the value of the term "currant jelly". Yamamoto LG, et al. **Am J Emerg Med** 1997 May;15(3):293–8

Diagnosis and treatment of gastrointestinal bleeding secondary to portal hypertension. American College of Gastroenterology Practice Parameters Committee. Grace ND. **Am J Gastroenterol** 1997 Jul;92(7):1081–91 (150 ref.)

Clinical implications of the white nipple sign and its role in the diagnosis of esophageal variceal hemorrhage. Hou MC, et al. **Am J Gastroenterol** 1996 Oct;91(10):2103–9

Effect of push enteroscopy on transfusion requirements and quality of life in patients with unexplained gastrointestinal bleeding. Vakil N, et al. **Am J Gastroenterol** 1997 Mar; 92(3):425–8

A prospective characterization of upper gastrointestinal hemorrhage presenting with hematochezia. Wilcox CM, et al. **Am J Gastroenterol** 1997 Feb;92(2):231–5

A comparison of clinical and endoscopic features of bleeding and non-bleeding peptic ulcer in Singapore. Chong YY, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):496–9

Factors affecting delection of bleeding lesions in the stomach by initial emergency endoscopy. Wu CH, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):79–85

Measurement of fecal lactoferrin for rapid diagnosis of enterohemorrhagic Escherichia coli infection. Iida T, et al. **Clin Infect Dis** 1997 Jul;25(1):167

Vascular metastatic lesion in the pelvis mimicking gastrointestinal bleeding. Korkmaz M, et al. **Clin Nucl Med** 1996 Aug;21(8):644–5

Enteroscopy in patients with gastrointestinal bleeding of obscure origin. Adrain AL, et al. **Dig Dis** 1996 Nov–Dec; 14(6):345–55 (27 ref.)

Lower gastrointestinal bleeding. Vernava AM 3rd, et al. **Dis Colon Rectum** 1997 Jul;40(7):846–58 (99 ref.)

Choledochocele presenting with anaemia. Krepel HP, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):641–3

Haemorrhage into the pancreatic duct (Hemosuccus pancreaticus): recognition and management. Suter M, et al. **Eur J Surg** 1995 Dec;161(12):887–92

Acute and chronic management of lower gastrointestinal bleeding: cost-effective approaches. Machicado GA, et al. **Gastroenterologist** 1997 Sep;5(3):189–201 (48 ref.)

Value of laparotomy in the diagnosis of obscure gastrointestinal haemorrhage. Baillie J. **Gastrointest Endosc** 1997 Feb;45(2):219–20

Peroral colonoscopy. Technique, depth, and yield of lesions. Goff JS. **Gastrointest Endosc Clin N Am** 1996 Oct; 6(4):753–8 (14 ref.)

Sonde enteroscopy. Technique, depth of insertion, and yield of lesions. Gostout CJ. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):777–92 (22 ref.)

Enteroscopy. Outcomes. Huilgol V, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):811–7 (47 ref.)

Colonoscopy for diagnosis and treatment of severe lower gastrointestinal bleeding. Routine outcomes and cost analysis. Jensen DM, et al. **Gastrointest Endosc Clin N Am** 1997 Jul;7(3):477–98 (46 ref.)

Laparoscopic finding and imaging of the iatrogenic duodenal intramural hematoma. Han SJ, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):139–42

Evaluation of a new endoscopic index to predict first bleeding from the upper gastrointestinal tract in patients with cirrhosis. Zoli M, et al. **Hepatology** 1996 Nov; 24(5):1047–52

Diagnostic pitfalls and therapeutic strategies in the treatment of pancreatic duct haemorrhage. Gallagher PJ, et al. **HPB Surg** 1997;10(5):293–7

Generalized essential telangiectasia in the presence of gastrointestinal bleeding. Checketts SR, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):321–5 (34 ref.)

Acute upper gastrointestinal hemorrhage in older people: a prospective study in two neighboring districts. Nankhonya JM, et al. **J Am Geriatr Soc** 1997 Jun;45(6):752–4

Symptom-specific use of upper gastrointestinal endoscopy in human immunodeficiency virus-infected patients yields high dividends. Bashir RM, et al. **J Clin Gastroenterol** 1996 Dec;23(4):292–8

Fatal gastrointestinal bleeding as the primary manifestation of granulocytic sarcoma in a patient with myelodysblastic syndrome. Saleh HA, et al. **J Fla Med Assoc** 1997 Feb; 84(2):111–4

Gastric antral vascular ectasia causing severe anemia. Toyota M, et al. **J Gastroenterol** 1996 Oct;31(5):710–3 (22 ref.)

Obscure gastrointestinal bleeding: role of small bowel enteroscopy. Portwood GL, et al. **J S C Med Assoc** 1997 Feb;93(2):51–6 (49 ref.)

Acute gastrointestinal bleeding. O'Hara SM. **Radiol Clin North Am** 1997 Jul;35(4):879–95 (59 ref.)

Significance of serum iron and ferritin in patients with colorectal adenomas. Kishida T, et al. **Scand J Gastroenterol** 1997 Mar;32(3):233–7

Methemoglobinemia secondary to benzocaine topical anesthetic. Lee E, et al. **Surg Laparosc Endosc** 1996 Dec; 6(6):492–3

[Emergency medicine for the practitioner: abdominal pain] Fresard F, et al. **Rev Med Suisse Romande** 1997 Apr; 117(4):281–4 **(Fre)**

[Upper gastrointestinal bleeding as the first manifestation of a nonseminomatous testicular carcinoma] Weidmann B, et al. **Dtsch Med Wochenschr** 1996 Nov 15;121(46):1428–32 (33 ref.) (Eng. Abstr.) **(Ger)**

[Aspiration-induced lung complications following emergency endoscopy in upper gastrointestinal hemorrhage: incidence and localization by thoracic radiography] Gartenschläger M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):345–8 (Eng. Abstr.) **(Ger)**

[Colorectal hemorrhages] Dell'Antonio A, et al. **Ann Ital Chir** 1996 Mar–Apr;67(2):197–203 (Eng. Abstr.) **(Ita)**

[Rare causes of gastrointestinal bleeding in childhood. A clinical case of von Willebrand's disease] Lerro P, et al. **Minerva Pediatr** 1995 Dec;47(12):541–3 (Eng. Abstr.) **(Ita)**

[Diagnosis of chronic hemorrhage in diseases of the small intestine] Romashov FN, et al. **Khirurgiia (Mosk)** 1996; (2):58–60 (Eng. Abstr.) **(Rus)**

[The diagnosis and treatment of Dieulafoy's syndrome] Korolev MP, et al. **Vestn Khir Im I I Grek** 1996;155(6):26–7 (Eng. Abstr.) **(Rus)**

[The role of endoscopy in determining the indications for the surgical treatment of the Mallory-Weiss syndrome and of bleeding acute gastroduodenal ulcers] Skriabin ON, et al. **Vestn Khir Im I I Grek** 1997;156(2):35–7; discussion 38–9 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Review article: the role of pharmaco-therapy for acute variceal haemorrhage in the era of endoscopic haemostasis. Chan LY, et al. **Aliment Pharmacol Ther** 1997 Feb; 11(1):45–50 (52 ref.)

Randomized blinded study of aprotinin infusion for liver crush injuries in the pig model. Thomae KR, et al. **Am Surg** 1997 Feb;63(2):113–20

Unnecessary prescribing of NSAIDs and the management of NSAID-related gastropathy in medical practice [see comments] Tamblyn R, et al. **Ann Intern Med** 1997 Sep 15;127(6):429–38. Comment in: Ann Intern Med 1997 Sep 15;127(6):483–5.

Octreotide or vasopressin for bleeding esophageal varices. Law AW, et al. **Ann Pharmacother** 1997 Feb;31(2):237–8 (15 ref.)

Criticism of prophylaxis of gastrointestinal bleeding with H2 receptor antagonists is wrong [letter; comment] Cook TM. **BMJ** 1997 Aug 9;315(7104):371–2. Comment on: BMJ 1997 Apr 5;314(7086):1013.

Experimental studies of injection therapy for ulcer haemorrhage in rabbits. Kubba AK, et al. **Br J Surg** 1997 Apr;84(4):551–4

Acute pulmonary oedema following administration of vasopressin for control of massive GI tract haemorrhage in a major burn patient. Lin TW, et al. **Burns** 1996 Feb; 22(1):73–5

Use of octreotide in the acute management of bleeding esophageal varices. Sadowski DC. **Can J Gastroenterol** 1997 May–Jun;11(4):339–43 (39 ref.)

Cutaneous reaction to vasopressin. Lemlich G, et al. **Cutis** 1996 May;57(5):330–2

Treatment of bleeding esophageal varices with cyanoacrylate and polidocanol, or polidocanol alone: results of a prospective study in an unselected group of patients with cirrhosis of the liver [see comments] Lux G, et al. **Endoscopy** 1997 May;29(4):241–6. Comment in: Endoscopy 1997 May;29(4):281–2. Comment in: Endoscopy 1997 May;29(4):283–4.

Hormonal therapy for bleeding gastrointestinal mucosal vascular abnormalities: a promising alternative. Marshall JK, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):521–5 (60 ref.)

Double-blind randomized controlled trial comparing terlipressin and somatostatin for acute variceal hemorrhage. Variceal Bleeding Study Group [see comments] Feu F, et al. **Gastroenterology** 1996 Nov;111(5):1291–9. Comment in: Gastroenterology 1997 May;112(5):1777.

Intrarectal fibrin glue: a novel method of hemostasis for bleeding from rectal tumor. Soweid AM, et al. **Gastrointest Endosc** 1997 May;45(5):427–9 (16 ref.)

Endoscopic injection of gelatin solution for severe hemorrhagic gastric cancer. Tajika M, et al. **Gastrointest Endosc** 1996 Mar;43(3):247–50 (10 ref.)

Effect of sucralfate on aspirin induced mucosal injury and impaired haemostasis in humans. Hudson N, et al. **Gut** 1997 Jul;41(1):19–23

Omeprazole versus histamine H2 receptor antagonists in the treatment of acute upper non-variceal bleeding. Mohamed SA, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):863–5

Therapeutic benefit of vaso-active drugs for acute variceal bleeding: a real pharmacological effect, or a side-effect of definitions in trials? Burroughs AK, et al. **Hepatology** 1996 Sep;24(3):737–9

Acute eosinophilic pneumonia associated with ranitidine. Andreu V, et al. **J Clin Gastroenterol** 1996 Sep;23(2):160–2

Comparative study of antacid and sucralfate suspension for acute upper gastro-intestinal hemorrhage in Chaiyaphum Hospital, Thailand. Charoenwat S. **J Med Assoc Thai** 1996 Nov;79(11):727–31

Application of formaldehyde for treatment of hemorrhagic radiation-induced proctitis. Roche B, et al. **World J Surg** 1996 Oct;20(8):1092–4; discussion 1094–5

Optimizing the intragastric pH as a supportive therapy in upper GI bleeding. Brunner G, et al. **Yale J Biol Med** 1996 May–Jun;69(3):225–31

Terlipressin (glypressin) versus somatostatin in the treatment of bleeding esophageal varices--final report of a placebo-controlled, double-blind study. Walker S, et al. **Z Gastroenterol** 1996 Oct;34(10):692–8

[Terlipressin acetate] Becker PU, et al. **Ugeskr Laeger** 1997 Sep 1;159(36):5399–402 **(Dan)**

[Myocardial infarction after injection of terlipressin for digestive hemorrhage (letter)] Rosario R, et al. **Gastroenterol Clin Biol** 1996;20(8–9):712–3 **(Fre)**

[Emergency endoscopic treatment of digestive hemorrhages of the gastroduodenal tract (Forrest Ia, Ib)] Cannistrà F. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):121–6 (Eng. Abstr.) **(Ita)**

EPIDEMIOLOGY

Epidemiology and outcome of patients hospitalized with acute lower gastrointestinal hemorrhage: a population-based study. Longstreth GF. **Am J Gastroenterol** 1997 Mar;92(3):419–24

The American College of Gastroenterology Bleeding Registry: preliminary findings. Peura DA, et al. **Am J Gastroenterol** 1997 Jun;92(6):924–8

Acute upper gastrointestinal bleeding in the Amsterdam area: incidence, diagnosis, and clinical outcome. Vreeburg EM, et al. **Am J Gastroenterol** 1997 Feb;92(2):236–43

Acute upper gastrointestinal haemorrhage in west of Scotland: case ascertainment study. Blatchford O, et al. **BMJ** 1997 Aug 30;315(7107):510–4

Seasonal variation in the incidence of peptic ulcer and esophageal variceal bleeding in Taiwan. Yen FS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan;57(1):22–7

Prediction of the first variceal haemorrhage. Paquet KJ. **HPB Surg** 1997;10(4):255–8

The relationship between upper gastrointestinal hemorrhage and drug use: a case control study. Chan TY, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):304–8

Upper gastrointestinal bleeding in an open-access dedicated unit. Masson J, et al. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):436–42

Upper gastrointestinal bleeding following major surgical procedures: prevalence, etiology, and outcome. Pollard TR, et al. **J Surg Res** 1996 Jul 15;64(1):75–8

[Upper digestive hemorrhage in patients over 80 years of age: incidence and prognostic factors] Hochain P, et al.

Gastroenterol Clin Biol 1996;20(8–9):638–44 (Eng. Abstr.) **(Fre)**

[Upper digestive tract hemorrhage in the Peruvian Andes: report of 115 cases observed in Huaraz] Villanueva Palacios J, et al. **Rev Gastroenterol Peru** 1996 May–Aug; 16(2):99–104 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Pervasive occult gastrointestinal bleeding in an Alaska native population with prevalent iron deficiency. Role of Helicobacter pylori gastritis [see comments] Yip R, et al. **JAMA** 1997 Apr 9;277(14):1135–9. Comment in: JAMA 1997 Apr 9;277(14):1166–7.

ETIOLOGY

Metastatic large–cell lung carcinoma presenting as gastrointestinal hemorrhage. Akahoshi K, et al. **Acta Gastroenterol Belg** 1996 Jul–Sep;59(3):217–9

Hepatocolic fistula and lower GI bleeding in hepatoma. Berkelhammer C, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2625–6

Transjugular intrahepatic portosystemic shunt in the treatment of intermittently bleeding stomal varices. Bernstein D, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2237–8

Upper gastrointestinal bleeding in patients with chronic renal failure: role of vascular ectasia. Chalasani N, et al. **Am J Gastroenterol** 1996 Nov;91(11):2329–32

"Blister pack"–induced gastrointestinal hemorrhage. Chan FK, et al. **Am J Gastroenterol** 1997 Jan;92(1):172–3

Duodenal ganglioneuroma: a rare cause of upper GI hemorrhage. Freeman BD, et al. **Am J Gastroenterol** 1996 Dec;91(12):2626–7

Hepatic artery pseudoaneurysm associated with amebic liver abscess presenting as upper GI hemorrhage. Gopanpallikar A, et al. **Am J Gastroenterol** 1997 Aug;92(8):1391–3

Interstitial pregnancy complicated by rectal bleeding. Warshal DP, et al. **Am J Obstet Gynecol** 1996 Nov; 175(5):1373–5

Hemoquant determination of hookworm–related blood loss and its role in iron deficiency in African children. Stoltzfus RJ, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):399–404

Hemangiopericytoma: an unusual cause of upper gastrointestinal hemorrhage. Grimsley BR, et al. **Am Surg** 1997 Mar;63(3):248–51

Lower gastrointestinal bleeding during anticoagulant therapy: a life–saving complication? Norton SA, et al. **Ann R Coll Surg Engl** 1997 Jan;79(1):38–9

Portal hypertension and bleeding esophagogastric varices. Helton WS, et al. **Ann Vasc Surg** 1996 Jul;10(4):415–26 (153 ref.)

A late complication of palliative stenting of malignant oesophageal obstruction [letter] Begbie S, et al. **Aust N Z J Med** 1996 Feb;26(1):115

A case of upper gastrointestinal bleeding secondary to a bread bag clip [letter] Norrie MW, et al. **Aust N Z J Med** 1997 Feb;27(1):75

Rectal bleeding: a rare complication of abdominal pregnancy. Saravanane C, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):124–5

Solitary gastric Peutz–Jeghers polyp and angiolipoma presenting as acute haemorrhage. Hunt J, et al. **Aust N Z J Surg** 1996 Oct;66(10):713–5

Massive pancreatic duct haemorrhage. Orr KB. **Aust N Z J Surg** 1996 Dec;66(12):843–5

Major upper gastrointestinal haemorrhage associated with hepatic arterial chemoperfusion. Ross WB, et al. **Aust N Z J Surg** 1996 Dec;66(12):816–9

The incidence and causes of rectal bleeding [letter; comment] Edwards A, et al. **Br J Gen Pract** 1996 Oct;46(411):625. Comment on: Br J Gen Pract 1996 Mar;46(404):161–4.

A non–thrombocytopenic bleeding disorder due to an IgG4–kappa anti–GPIIb/IIIa autoantibody. McMillan R, et al. **Br J Haematol** 1996 Dec;95(4):747–9

Upper gastrointestinal bleeding following major maxillofacial surgery [letter] Newman L. **Br J Oral Maxillofac Surg** 1997 Jun;35(3):223–4

Recurrent upper gastrointestinal bleeding as an unusual presentation of sarcomatoid renal cell carcinoma. Durazi MH, et al. **Br J Urol** 1997 Feb;79(2):298–9

Massive upper gastrointestinal bleeding originating from a fourth–stage duodenal diverticulum: a case report and review of the literature. Rioux L, et al. **Can J Surg** 1996 Dec;39(6):510–2 (13 ref.)

Spontaneous rupture of a liver cell adenoma. Angunawela P, et al. **Ceylon Med J** 1997 Mar;42(1):42–3

Malignant stromal tumor: a rare cause of gastrointestinal bleeding discovered by Tc–99m labeled red cells. Hamlin J, et al. **Clin Nucl Med** 1996 Dec;21(12):1002–4

A lamb–meat–based formula for infants allergic to casein hydrolysate formulas. Weisselberg B, et al. **Clin Pediatr (Phila)** 1996 Oct;35(10):491–5

Case report: variceal haemorrhage due to polycystic liver treated by transhepatic intervention. Belcher HE, et al. **Clin Radiol** 1996 Oct;51(10):732–4

Ranitidine improves lymphocyte function after severe head injury: results of a randomized, double–blind study. Rixen D, et al. **Crit Care Med** 1996 Nov;24(11):1787–92

Portal hypertensive gastropathy. Trevino HH, et al. **Dig Dis** 1996 Jul–Aug;14(4):258–70 (106 ref.)

Jejunal lymphangioma. An unusual cause of chronic gastrointestinal bleeding. Barquist ES, et al. **Dig Dis Sci** 1997 Jun;42(6):1179–83

A study at 10 medical centers of the safety and efficacy of 48 flexible sigmoidoscopies and 8 colonoscopies during pregnancy with follow–up of fetal outcome and with comparison to control groups. Cappell MS, et al. **Dig Dis Sci** 1996 Dec;41(12):2353–61

Aminocaproic acid used to control upper gastrointestinal bleeding in radiation gastritis. Grover N, et al. **Dig Dis Sci** 1997 May;42(5):982–4

Role of Helicobacter pylori infection on upper gastrointestinal bleeding in the elderly: a case–control study. Pilotto A, et al. **Dig Dis Sci** 1997 Mar;42(3):586–91

Diagnostic efficacy of push–enteroscopy and long–term follow–up of patients with small bowel angiodysplasias. Schmit A, et al. **Dig Dis Sci** 1996 Dec;41(12):2348–52

Pattern of colonic disease in lower gastrointestinal bleeding in Jordanian patients: a prospective colonoscopic study. Shennak MM, et al. **Dis Colon Rectum** 1997 Feb; 40(2):208–14

Nd:YAG laser treatment for bleeding from radiation proctitis [published erratum appears in Endoscopy 1997 Jan;29(1):47] Barbatzas C, et al. **Endoscopy** 1996 Aug; 28(6):497–500

A case of colonic pseudolipomatosis: a rare complication of colonoscopy? Kaassis M, et al. **Endoscopy** 1997 May; 29(4):325–7 (8 ref.)

A rare case of gastrointestinal hemorrhage: aortoesophageal fistula following repair of aortic dissection. Kirchgatterer A, et al. **Endoscopy** 1997 Feb;29(2):137–8

Upper gastrointestinal hemorrhage secondary to ectopic spleen. Laszewicz W, et al. **Endoscopy** 1997 Jan;29(1):56–7

A severe complication of the new self–expanding spiral nitinol biliary stent. Pescatore P, et al. **Endoscopy** 1997 Jun; 29(5):413–5

Gastric ascariasis: a rare cause of upper gastrointestinal bleeding. Pontes JM, et al. **Endoscopy** 1996 Nov;28(9):792–3

Watermelon stomach [letter; comment] van Blankenstein M. **Endoscopy** 1996 Mar;28(3):328. Comment on: Endoscopy 1995 Feb;27(2):203–6.

Lower intestinal hemorrhage due to a dislodged metallic stent. Wong SY, et al. **Endoscopy** 1997 Jun;29(5):407–8

Mesenteric arteriovenous fistula causing portal hypertension and bleeding duodenal varices. Baranda J, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1223–5

Hemorrhagic jejunal lipoma with intermittent intussusception. Baron Y, et al. **Eur J Radiol** 1996 May; 22(2):123–5

Polyarteritis nodosa presenting with hemobilia and intestinal hemorrhage. Yazici Z, et al. **Eur Radiol** 1997;7(7):1059–61

Gastric antral vascular ectasia: is there to be a consensus? [editorial] Brandt LJ. **Gastrointest Endosc** 1996 Sep; 44(3):355–6

Radiation–induced jejunal mucosal vascular lesions as a cause of significant gastrointestinal hemorrhage. Cohen SM. **Gastrointest Endosc** 1997 Aug;46(2):183–4

Unexpected right colon mucosal bleeding on colonoscopy [see comments] Felig DM, et al. **Gastrointest Endosc** 1996 Oct;44(4):471–3. Comment in: Gastrointest Endosc 1997 May;45(5):442.

Waldenström's macroglobulinemia of the stomach presenting with upper gastrointestinal hemorrhage. Kaila VL, et al. **Gastrointest Endosc** 1996 Jul;44(1):73–5

Enteroscopic diagnosis of bleeding jejunal phlebectasia: a case report and review of literature. Kumar P, et al. **Gastrointest Endosc** 1997 Aug;46(2):185–7 (13 ref.)

Henoch–Schönlein purpura with hemorrhagic ascites and intestinal serositis. Santiago J, et al. **Gastrointest Endosc** 1996 Nov;44(5):624–5

Bleeding from bile duct varices: an unexpected hazard during therapeutic ERCP. Tighe M, et al. **Gastrointest Endosc** 1996 Mar;43(3):250–2 (7 ref.)

Bleeding from gastric antral vascular ectasia in marrow transplant patients. Tobin RW, et al. **Gastrointest Endosc** 1996 Sep;44(3):223–9

Presumed arteriovenous malformation mimicking hemosuccus pancreaticus of Santorini's duct with normal pancreatic anatomy. Williams DM, et al. **Gastrointest Endosc** 1996 Sep;44(3):348–50

Rare causes of occult small intestinal bleeding, including aortoenteric fistulas, small bowel tumors, and small bowel ulcers. Bashir RM, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):709–38 (238 ref.)

Bleeding anorectal varices: successful treatment with transjugular intrahepatic portosystemic shunting (TIPS). Fantin AC, et al. **Gut** 1996 Jun;38(6):932–5

The predictive value of serum laminin for the risk of variceal bleeding related to portal pressure levels. Kondo M, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):542–5

Cytomegalovirus enteritis causing massive bleeding in a patient with AIDS. Lai IR, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):987–91

Massive lower gastrointestinal hemorrhage in patients with portal hypertensive enteropathy: a report of two cases. Santoro GA, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1029–32

Massive extra–enteric gastrointestinal hemorrhage secondary to splanchnic artery aneurysms. Yeh TS, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1152–6

Therapeutic benefit of vaso–active drugs for acute variceal bleeding: a real pharmacological effect, or a side–effect of definitions in trials? Burroughs AK, et al. **Hepatology** 1996 Sep;24(3):737–9

Risk factors for hemorrhage from gastric fundal varices. Kim T, et al. **Hepatology** 1997 Feb;25(2):307–12

Upper GI bleeding in a man with a left upper quadrant mass. Dhar SC. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):215–7

Duodenal varices: a case report and review of the literature. McChesney L, et al. **HPB Surg** 1995;9(1):31–5 (25 ref.)

Massive colonic haemorrhage from a solitary caecal varix. Shaper KR, et al. **HPB Surg** 1996;9(4):253–6

Massive lower gastrointestinal bleeding from cecal lymphoid polyp in renal transplant recipient. Mohandas KM, et al. **Indian J Gastroenterol** 1996 Jan;15(1):20–1

Diffuse gastrointestinal involvement in Henoch–Schonlein purpura [letter] Patel RP, et al. **Indian J Gastroenterol** 1996 Jan;15(1):32

Ectopic pregnancy presenting as lower gastro–intestinal hemorrhage. Verma GR, et al. **Indian J Gastroenterol** 1996 Oct;15(4):151

Digital fracture polypectomy for juvenile rectal polyps is safe [letter] Madan U, et al. **Indian Pediatr** 1996 May; 33(5):431

Gastrointestinal angiodysplasia in congenital platelet dysfunction [see comments] Okamura T, et al. **Int J Hematol** 1996 Dec;65(1):79–84. Comment in: Int J Hematol 1997 Jun;65(4):419–20.

Chronic rectal bleeding after high–dose conformal treatment of prostate cancer warrants modification of existing morbidity scales. Hanlon AL, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):59–63

Conformal irradiation of the prostate: estimating long–term rectal bleeding risk using dose–volume histograms. Hartford AC, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):721–30

Rectal bleeding after conformal 3D treatment of prostate cancer: time to occurrence, response to treatment and duration of morbidity. Teshima T, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):77–83

Acute gastrointestinal bleeding due to Meckel's diverticulum heterotopic gastric mucosa. Maieron R, et al. **Ital J Gastroenterol** 1996 May;28(4):225–8

Anatomy and etiology of extrahepatic portal vein obstruction in children leading to bleeding esophageal varices [see comments] Ando H, et al. **J Am Coll Surg** 1996 Dec; 183(6):543–7. Comment in: J Am Coll Surg 1996 Dec;183(6):637–9.

New issues concerning the etiology of an old problem [editorial; comment] Ryckman FC. **J Am Coll Surg** 1996 Dec;183(6):637–9 (11 ref.). Comment on: J Am Coll Surg 1996 Dec;183(6):543–7.

Rectal bleeding from a mucous fistula secondary to a Dieulafoy's lesion. Abdelmalek MF, et al. **J Clin Gastroenterol** 1997 Jun;24(4):259–61

Massive gastrointestinal bleeding from a Dieulafoy–like lesion of the rectum. Eguchi S, et al. **J Clin Gastroenterol** 1997 Jun;24(4):262–3 (6 ref.)

Investigation of upper gastrointestinal hemorrhage in chronic renal failure. Tsai CJ, et al. **J Clin Gastroenterol** 1996 Jan; 22(1):2–5

Angiolymphoid hyperplasia with eosinophilia in the colon: a novel cause of rectal bleeding. Berney DM, et al. **J Clin Pathol** 1997 Jul;50(7):611–3

Bird's nest inferior vena caval filter migration into the duodenum: a rare cause of upper gastrointestinal bleeding. al Zahrani HA. **J Endovasc Surg** 1995 Nov;2(4):372–5

Importance of unreported rectal bleeding. Chambliss L, et al. **J Fam Pract** 1997 Apr;44(4):341–2

Hemosuccus pancreaticus from a splenic artery pseudoaneurysm: an unusual cause of upper gastrointestinal bleeding. Hwang YT, et al. **J Formos Med Assoc** 1996 Mar; 95(3):247–51

Factors that influence bleeding in superficial–type colorectal tumors: study of endoscopic and histologic correlates. Hirano K, et al. **J Gastroenterol** 1996 Aug;31(4):518–24

Pseudoaneurysm of the cystic artery associated with upper gastrointestinal bleeding. Nakajima M, et al. **J Gastroenterol** 1996 Oct;31(5):750–4 (16 ref.)

Classical Kaposi's: a rare cause of gastrointestinal haemorrhage. Chapman SM, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):408–10

Case report: life–threatening haematochezia from a jejunal leiomyoma. Chen CY, et al. **J Gastroenterol Hepatol** 1997 May;12(5):382–4

Case report: gastrointestinal bleeding from a hepatocellular carcinoma invading the transverse colon. Hashimoto M, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):765–7

Circadian occurrence of variceal bleeding in patients with liver cirrhosis. Siringo S, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1115–20

Bleeding time does not predict gastrointestinal bleeding in patients with cirrhosis. The CALC Group. Coagulation Abnormalities in Liver Cirrhosis. Basili S, et al. **J Hepatol** 1996 May;24(5):574–80

Gastric antral vascular ectasia: a case report and review of the literature. Herman BE, et al. **J Nucl Med** 1996 May; 37(5):854–6 (40 ref.)

Inflammatory cloacogenic polyp: an unrecognized cause of hematochezia and tenesmus in childhood. Poon KK, et al. **J Pediatr** 1997 Feb;130(2):327–9 (13 ref.)

Gastric lipoma in a child with bleeding and intermittent vomiting. Beck NS, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):226–8

Upper gastrointestinal hemorrhage as a late complication of congenital heart disease. Miller TL, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):452–6

Massive upper gastrointestinal haemorrhage due to direct visceral erosion of splenic artery aneurysm. Shahani RB, et al. **J Postgrad Med** 1994 Oct–Dec;40(4):220–2

Acute upper gastrointestinal bleeding in southern Saudi Arabia. Ahmed ME, et al. **J R Coll Physicians Lond** 1997 Jan–Feb;31(1):62–4

Intra–abdominal haemorrhage from mesenteric angiosarcoma. Shaper NJ, et al. **J R Soc Med** 1996 Nov; 89(11):644–5

Helicobacter pylori and iron deficiency [editorial; comment] Wood H, et al. **JAMA** 1997 Apr 9;277(14):1166–7. Comment on: JAMA 1997 Apr 9;277(14):1135–9.

Intestinal bleeding in disseminated non–small cell lung cancer. Centeno Cortés C, et al. **Lung Cancer** 1997 Aug; 18(1):101–5

Sports anemia and gastrointestinal bleeding in endurance athletes. Mechrefe A, et al. **Med Health R I** 1997 Jul; 80(7):216–8 (7 ref.)

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 7–1997. A 14–year–old girl with recurrent painless rectal bleeding [clinical conference] **N Engl J Med** 1997 Feb 27;336(9):641–8

Bleeding and thrombosis in chronic uremia [editorial] Sagripanti A, et al. **Nephron** 1997;75(2):125–39 (172 ref.)

Disseminated Mycobacterium avium complex presenting as hematochezia in an infant with rapidly progressive acquired immunodeficiency syndrome. Keller C, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):713–5

Dieulafoy lesion as a cause of massive gastrointestinal bleeding. Renz EM. **S D J Med** 1997 Jul;50(7):225–7

Relationship between portal pressure, esophageal varices, and variceal bleeding on the basis of the stage and cause of cirrhosis. Le Moine O, et al. **Scand J Gastroenterol** 1997 Jul;32(7):731–5

Esophagitis is a major cause of upper gastrointestinal hemorrhage in the elderly. Zimmerman J, et al. **Scand J Gastroenterol** 1997 Sep;32(9):906–9

Isolated colonic neurofibroma manifested by massive lower gastrointestinal bleeding and intussusception. Abramson LP, et al. **South Med J** 1997 Sep;90(9):952–4 (9 ref.)

Recurrent lower gastrointestinal hemorrhage: ileal neoplasm diagnosed by scintigraphy with Tc 99m red blood cells and angiography. Gordon BM, et al. **South Med J** 1996 Dec;89(12):1204–7

The conundrum of lower gastrointestinal bleeding. Billingham RP. **Surg Clin North Am** 1997 Feb;77(1):241–52 (63 ref.)

Solitary cavernous hemangioma of the duodenum: report of a case. Fujikawa T, et al. **Surg Today** 1996;26(10):807–9

Induction mechanism of small intestinal lesions caused by intravenous injection of endotoxin in rats. Shindo M, et al. **Surg Today** 1996;26(8):610–7

An unusual manifestation of Meckel's diverticulum: bleeding and perforation—a case report. Heinicke JM, et al. **Swiss Surg** 1997;3(3):97–9

Hematochezia and syncope in a 21–year–old man. Cornell S, et al. **Tenn Med** 1997 Aug;90(8):329–30

Gastrointestinal bleeding after liver transplantation. Tabasco–Minguillán J, et al. **Transplantation** 1997 Jan 15; 63(1):60–7

Thresholds for intestinal hemorrhage in mice exposed to a piezoelectric lithotripter. Dalecki D, et al. **Ultrasound Med Biol** 1995;21(9):1239–46

A test for cavitation as a mechanism for intestinal hemorrhage in mice exposed to a piezoelectric lithotripter. Dalecki D, et al. **Ultrasound Med Biol** 1996;22(4):493–6

Gastrointestinal bleeding and gastric outlet obstruction from Peutz–Jeghers polyposis. Diagnosis and treatment. Corley DA, et al. **West J Med** 1997 May;166(5):350–2

[An unusual cause of death after the Whipple operation] Leffler J, et al. **Rozhl Chir** 1996 May;75(5):252–4 (Eng. Abstr.) **(Cze)**

[Segmental "portal hypertension". A rare cause of severe tractable variceal bleeding] Møller S, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2563–5 (Eng. Abstr.) **(Dan)**

[Factitious rectorrhagia: a case of Münchausen syndrome (letter)] Louvety S, et al. **Gastroenterol Clin Biol** 1997; 21(4):345–6 **(Fre)**

[Severe and recurrent digestive hemorrhage: an uncommon form of colonic schistosomiasis] Rolachon A, et al. **Gastroenterol Clin Biol** 1996;20(8–9):693–5 (Eng. Abstr.) **(Fre)**

[Recurrent lower digestive hemorrhage in young adults: a surgical indication] Tordjman G, et al. **Gastroenterol Clin Biol** 1997;21(3):217–8 (Eng. Abstr.) **(Fre)**

[Ileal lipoma: a cause of severe lower digestive tract hemorrhage (letter)] Daali M, et al. **J Chir (Paris)** 1996; 133(9–10):466–8 (Eng. Abstr.) **(Fre)**

[Should watermelon stomach be considered to be an unrecognized localization of scleroderma?] Marie I, et al. **J Mal Vasc** 1996;21(3):188–91 (Eng. Abstr.) **(Fre)**

[Gastrointestinal hemorrhage and diverticula of the jejunum—presentation of a case report and review of the literature] Greco B, et al. **Swiss Surg** 1997;3(3):104–6 (11 ref.) (Eng. Abstr.) **(Fre)**

[Peripheral aneurysm of the hepatic artery as the etiology of acute upper gastrointestinal hemorrhage] Hanke S, et al. **Chirurg** 1997 May;68(5):536–9 (Eng. Abstr.) **(Ger)**

[Hemobilia in cholecystolithiasis as a rare cause of massive upper gastrointestinal hemorrhage] Ritz JP, et al. **Chirurg** 1997 Jan;68(1):87–9 (Eng. Abstr.) **(Ger)**

[Hemosuccus pancreaticus—a rare cause of upper gastrointestinal bleeding. Successful treatment in two cases by radiologic–interventional embolization of the splenic artery] Allgaier HP, et al. **Dtsch Med Wochenschr** 1996 Sep 20;121(38):1158–62 (Eng. Abstr.) **(Ger)**

[A rare cause for gastrointestinal hemorrhage. Diagnosis and therapy] Pohl K, et al. **Internist (Berl)** 1996 Oct; 37(10):1053–6 **(Ger)**

[Abdominal colic, petechiae, arthralgia amd tar stools in a 56–year–old kidney transplant patient] Schuster MJ, et al. **Internist (Berl)** 1996 Mar;37(3):310–4 **(Ger)**

[Aortoduodenal fistula as the cause of gastrointestinal hemorrhage] Adamek HE, et al. **Leber Magen Darm** 1996 Nov;26(6):317–9 (Eng. Abstr.) **(Ger)**

[Recurrent hematemesis and hemobilia in ruptured hepatic artery aneurysm—differential diagnostic aspects of acute, upper gastrointestinal hemorrhage] Baartz T, et al. **Leber Magen Darm** 1996 Jan;26(1):42–6 (Eng. Abstr.) **(Ger)**

[Gastropathy due to portal hypertension] Hermann R. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):109–11 (17 ref.) (Eng. Abstr.) **(Ger)**

[Stepwise diagnosis of intestinal hemorrhage] Hoffmann R. **Schweiz Rundsch Med Prax** 1997 Jun 18;86(25–26):1075–9 (11 ref.) (Eng. Abstr.) **(Ger)**

[Prospective study of diagnosis, therapy and follow–up of acute gastrointestinal hemorrhage in 397 patients] Dertinger SH, et al. **Wien Klin Wochenschr** 1996 Nov 29; 108(22):717–21 (Eng. Abstr.) **(Ger)**

[Complications of diagnostic and interventional colonoscopy] Puchner R, et al. **Wien Klin Wochenschr** 1996;108(5):142–6 (Eng. Abstr.) **(Ger)**

[Universal organ involvement in Rendu–Osler–Weber disease: interdisciplinary diagnosis and interventional therapy] Kirchner J, et al. **Z Gastroenterol** 1996 Nov; 34(11):747–52 (Eng. Abstr.) **(Ger)**

[Endoscopy in patients at risk for bleeding] Schepke M, et al. **Z Gastroenterol** 1997 Feb;35(2):147–53 (36 ref.) **(Ger)**

[Massive hemorrhage from jejunal varices] Scheppach W, et al. **Z Gastroenterol** 1997 Mar;35(3):195–8 (Eng. Abstr.) **(Ger)**

[Small intestinal leiomyoma causing gastrointestinal hemorrhage] Hire E, et al. **Orv Hetil** 1996 Sep 22; 137(38):2093–6 (Eng. Abstr.) **(Hun)**

[Effect of fibroscopic sclerotherapy of hemorrhaging esophageal varices on survival in alcoholic iiver cirrhosis (comparative retrospective study)] Kempelen I, et al. **Orv Hetil** 1996 Sep 15;137(37):2019–23 (46 ref.) (Eng. Abstr.) **(Hun)**

[Angiodysplasia as source of hemorrhage] Vajda K, et al. **Orv Hetil** 1997 Feb 9;138(6):355–7 (Eng. Abstr.) **(Hun)**

[Upper digestive hemorrhage as a rare manifestation of ectopic pancreas with gastric localization] Covarelli P, et al. **G Chir** 1997 Mar;18(3):97–100 (Eng. Abstr.) **(Ita)**

[Unusual cause of gastric bleeding: leiomyoma] Alberti P, et al. **Minerva Chir** 1996 Oct;51(10):779–83 (22 ref.) (Eng. Abstr.) **(Ita)**

[Portosystemic shunts in the treatment of bleeding esophageal varices in cirrhotic patients: between sclerotherapy and transplantation] Gozzetti G, et al. **Minerva Chir** 1996 Nov; 51(11):887–95 (Eng. Abstr.) **(Ita)**

[Rare causes of serious digestive hemorrhages] Polignano FM, et al. **Minerva Chir** 1997 Apr;52(4):359–68 (80 ref.) (Eng. Abstr.) **(Ita)**

[Difficult digestive hemorrhage: angiodysplasia] Cristin A, et al. **Minerva Med** 1996 Oct;87(10):465–70 (Eng. Abstr.) **(Ita)**

[Pseudohyperaldosteronism secondary to licorice poisoning associated with hemorrhagic gastritis] Cataldo F, et al. **Pediatr Med Chir** 1997 May–Jun;19(3):219–21 (10 ref.) (Eng. Abstr.) **(Ita)**

[Cerebral venous thrombosis in a child with iron deficiency anemia caused by food allergy] Repetto T, et al. **Pediatr Med Chir** 1997 Mar–Apr;19(2):133–4 (Eng. Abstr.) **(Ita)**

[A case of gastrointestinal bleeding from metastatic alveolar soft part sarcoma of the jejunum] Sueyoshi T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep; 56(11):712–4 (Eng. Abstr.) **(Jpn)**

[Massive hemorrhage from a gastric neuroma associated with a kidney neoplasm] Lukasiewicz S, et al. **Wiad Lek** 1996; 49(7–12):124–6 (Eng. Abstr.) **(Pol)**

[Radical surgical treatment of gastric cancer complicated by perforation and hemorrhage in the aged] Chernov KM, et al. **Khirurgiia (Mosk)** 1997;(4):69 **(Rus)**

[Gastrointestinal bleeding in acute intoxications with non–cauterizing chemicals] Ermolov AS, et al. **Khirurgiia (Mosk)** 1997;(6):10–2 (Eng. Abstr.) **(Rus)**

[Multifactorial analysis of risk of hemorrhage from esophageal varicose dilated veins in patients with decompensated liver cirrhosis] Bulanov KI. **Klin Khir** 1996; (10):24–6 **(Rus)**

[Risk factors for the occurrence of hemorrhage from varicose dilated esophageal veins in liver cirrhosis] Bulanov KI. **Klin Khir** 1996;(9):35–7 (30 ref.) **(Rus)**

[Acute profuse gastrointestinal hemorrhage in a patient with extensive thermal burns] Kozinets GP, et al. **Klin Khir** 1996; (5):52 **(Rus)**

[Meckel's diverticulum complicated by hemorrhage] Tarasov AA, et al. **Vestn Khir Im I I Grek** 1996;(1):92 **(Rus)**

[Colonic tuberculosis as a cause of rectal bleeding in 2 patients with HIV infection] Pintor E, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):538–40 (Eng. Abstr.) **(Spa)**

[Recurrent rectorrhagia caused by angiodysplasia of the colon localized exclusively by scintigraphy with Tc–99m red blood cells] Martínez MN, et al. **Gastroenterol Hepatol** 1997 Mar;20(3):138–40 (Eng. Abstr.) **(Spa)**

[Gastroduodenal invagination and upper gastrointestinal hemorrhage secondary to gastric lipoma] Ortiz de Solórzapo Aurusa FJ, et al. **Gastroenterol Hepatol** 1997 Jun–Jul;20(6):303–5 (Eng. Abstr.) **(Spa)**

[Digestive hemorrhage as presentation of Bouveret's syndrome: 2 cases (letter)] Morcillo Aixelá A, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):571–2 **(Spa)**

[Haemococcus pancreaticus. A rare and hard to diagnose bleeding condition, the treatment of which is controversial] Wenner J, et al. **Lakartidningen** 1997 Mar 19;94(12):1092–3 **(Swe)**

[Visceral form of lymphogranulomatosis complicated by gastric hemorrhage and perforation] Moroz GS, et al. **Klin Khir** 1996;(6):52–3 **(Ukr)**

HISTORY

Bleeding oesophageal varices. Bendtsen F, et al. **Scand J Gastroenterol Suppl** 1996;216:1–9

IMMUNOLOGY

Antibody to factor VIII in rheumatoid arthritis [letter] Bonnet C, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):871–3 (10 ref.)

METABOLISM

Decreased plasma and tissue isoleucine levels after simulated gastrointestinal bleeding by blood gavages in chronic portacaval shunted rats. Olde Damink SW, et al. **Gut** 1997 Mar;40(3):418–24

Effects of simulated upper gastrointestinal hemorrhage on ammonia and related amino acids in blood and brain of chronic portacaval–shunted rats. Olde Damink SW, et al. **Metab Brain Dis** 1997 Jun;12(2):121–35

MICROBIOLOGY

Enterohemorrhagic Escherichia coli O157:H7—an emerging pathogen. Koutkia P, et al. **Am Fam Physician** 1997 Sep 1;56(3):853–6, 859–61 (26 ref.)

Hemorrhagic proctosigmoiditis and Blastocystis hominis [letter; comment] Yarze JC. **Ann Intern Med** 1996 Nov 15;125(10):860–1. Comment on: Ann Intern Med 1996 Jan 15;124(2):278–9.

Risk factors for upper gastrointestinal bleeding in intensive care unit patients: role of helicobacter pylori. Federal Hyperimmune Immunoglobulin Therapy Study Group. Ellison RT, et al. **Crit Care Med** 1996 Dec;24(12):1974–81

Enterohemorrhagic Escherichia coli O157:H7 infection and colitis in children [editorial; comment] Philpott DJ, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):623–5. Comment on: J Pediatr Gastroenterol Nutr 1997 May;24(5):590–3.

[A case of hemorrhagic rectocolitis associated with the presence of intestinal spirochetes] Zerpa PR, et al. **Bull Soc Pathol Exot** 1996;89(4):287–90 (Eng. Abstr.) **(Fre)**

MORTALITY

Association of nonsteroidal antiinflammatory drugs with outcome in upper and lower gastrointestinal bleeding. Wilcox CM, et al. **Dig Dis Sci** 1997 May;42(5):985–9

Optimizing the time–frame for the definition of bleeding–related death after acute variceal bleeding in cirrhosis. Merkel C, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):75–9

PATHOLOGY

Nipple–like projection from a varix: a high–risk marker? [letter] Caldwell SH, et al. **Gastrointest Endosc** 1996 Nov; 44(5):634–5

Gastric purpura: an unusual endoscopic feature in gastrointestinal hemorrhage. Hsu R, et al. **Gastrointest Endosc** 1997 Jun;45(6):527–9

Side–viewing endoscopy in bleeding duodenal diverticula [letter] Langdon DE. **Gastrointest Endosc** 1996 Sep; 44(3):358–9

Endoscopic diagnosis and terminology of erosions and similar mucosal lesions [letter] Mařatka Z. **Gastrointest Endosc** 1996 Jun;43(6):633–6

Dieulafoy's disease. Fockens P, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):739–52 (49 ref.)

Gastric vascular ectases. Weiner FR, et al. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):681–96 (58 ref.)

Massive arterial haemorrhage from the lower gastrointestinal tract. Bateman AC, et al. **Histopathology** 1996 Sep; 29(3):225–31

[Profuse gastric bleeding in a female with Dieulafois

syndrome] Mikhaleva LM, et al. **Arkh Patol** 1997 Jan–Feb; 59(1):60–2 (3 ref.) (Eng. Abstr.) **(Rus)**

[A case of death from hemorrhoidal hemorrhaging] Barinov EKh, et al. **Sud Med Ekspert** 1996 Oct–Dec;39(4):49 **(Rus)**

PHYSIOPATHOLOGY

Sequential subtraction scintigraphy with 99Tcm–RBC for the early detection of gastrointestinal bleeding and the calculation of bleeding rates: phantom and animal studies. Wu Y, et al. **Nucl Med Commun** 1997 Feb;18(2):129–38

PREVENTION & CONTROL

Endoscopic sclerotherapy compared with percutaneous transjugular intrahepatic portosystemic shunt after initial sclerotherapy in patients with acute variceal hemorrhage. A randomized, controlled trial [see comments] Cello JP, et al. **Ann Intern Med** 1997 Jun 1;126(11):858–65. Comment in: Ann Intern Med 1997 Jun 1;126(11):907–10.

Transjugular intrahepatic portosystemic shunts compared with endoscopic sclerotherapy for the prevention of recurrent variceal hemorrhage. A randomized, controlled trial [see comments] Sanyal AJ, et al. **Ann Intern Med** 1997 Jun 1;126(11):849–57. Comment in: Ann Intern Med 1997 Jun 1;126(11):907–10.

Shunt surgery during the era of liver transplantation. Rikkers LF, et al. **Ann Surg** 1997 Jul;226(1):51–7

Caution with use of cimetidine in tolazoline induced upper gastrointestinal bleeding. Huang CB, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):268–71

A prospective study of simplified omeprazole suspension for the prophylaxis of stress–related mucosal damage. Phillips JO, et al. **Crit Care Med** 1996 Nov;24(11):1793–800

Ranitidine improves lymphocyte function after severe head injury: results of a randomized, double–blind study. Rixen D, et al. **Crit Care Med** 1996 Nov;24(11):1787–92

Aminocaproic acid used to control upper gastrointestinal bleeding in radiation gastritis. Grover N, et al. **Dig Dis Sci** 1997 May;42(5):982–4

Medical prophylaxis of haemorrhage from oesophageal varices in patients with liver cirrhosis. Gross M, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):603–12 (95 ref.)

Oesophageal varices: prophylactic treatment by endoscopic banding ligation prior to index bleed [comment] Przemioslo R, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):329–31 (35 ref.). Comment on: Eur J Gastroenterol Hepatol 1996 Apr;8(4):337–42.

A randomized controlled trial of endoscopic variceal band ligation for primary prophylaxis of variceal bleeding [see comments] Sarin SK, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):337–42. Comment in: Eur J Gastroenterol Hepatol 1996 Apr;8(4):329–31.

Efficacy of prophylactic sclerotherapy in patients with hepatocellular carcinoma and varices negative for the red color sign. Miyoshi H, et al. **Gastrointest Endosc** 1997 Jun; 45(6):498–502

Prophylactic endoscopic sclerotherapy in patients with liver cirrhosis, portal hypertension, and esophageal varices. Paquet KJ, et al. **Hepatogastroenterology** 1997 May–Jun; 44(15):625–36 (54 ref.)

Beta–adrenergic antagonists in the prevention of gastrointestinal rebleeding in patients with cirrhosis: a meta–analysis. Bernard B, et al. **Hepatology** 1997 Jan; 25(1):63–70

Prevention of variceal rebleeding. Stevermer JJ, et al. **J Fam Pract** 1996 Sep;43(3):240–1

Propranolol and sclerotherapy in the prevention of gastrointestinal rebleeding in patients with cirrhosis: a meta–analysis. Bernard B, et al. **J Hepatol** 1997 Feb; 26(2):312–24

Measurement of variceal pressure with an endoscopic pressure sensitive gauge: validation and effect of propranolol therapy in chronic conditions. Nevens F, et al. **J Hepatol** 1996 Jan;24(1):66–73

Randomised trial of nadolol alone or with isosorbide mononitrate for primary prophylaxis of variceal bleeding in cirrhosis. Gruppo–Triveneto per L'ipertensione portale (GTIP) [see comments] Merkel C, et al. **Lancet** 1996 Dec 21–28;348(9043):1677–81. Comment in: ACP J Club 1997 May–Jun;126(3):68.

Randomised trial of transjugular–intrahepatic–portosystemic shunt versus endoscopy plus propranolol for prevention of variceal rebleeding. Rössle M, et al. **Lancet** 1997 Apr 12;349(9058):1043–9

Solitary ileocolic arteriovenous malformation: spongostan and silk therapeutic embolisation. Alcalde M, et al. **Postgrad Med J** 1997 May;73(859):295–6

Prophylaxis of acute gastroduodenal bleeding after renal transplantation. Skála I, et al. **Transpl Int** 1997;10(5):375–8

[Radiological treatment of recurrent variceal bleeding and ascites formation in patients with liver cirrhosis] Mäkisalo H, et al. **Duodecim** 1995;111(12):1096–103 **(Fin)**

[Primary prevention of digestive hemorrhage in portal hypertension] Lebrec D. **Gastroenterol Clin Biol** 1997; 21(5):391–3 (29 ref.) **(Fre)**

[Effects of lansoprazole on indomethacin–induced gastric bleeding and mucosal lesions in rats] Murakami I, et al. **Nippon Yakurigaku Zasshi** 1996 Dec;108(6):323–32 (Eng. Abstr.) **(Jpn)**

[Vascular shunting for gastrointestinal bleeding in children with portal hypertension] Leont'ev AF, et al. **Khirurgiia (Mosk)** 1996;(4):22–5 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Duodenal schwannoma causing gastrointestinal bleeding: helical CT findings. Quiroga S, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):154–5

Helical CT angiography in gastrointestinal bleeding of obscure origin. Ettorre GC, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):727–31

Enterohemorrhagic colitis caused by Escherichia coli: CT findings [letter] Ferrer MD, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):912

Using biphasic CT to reveal gastrointestinal arteriovenous malformations. Mindelzun RE, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):437–8

Utility of routine admission chest radiographs in patients with acute gastrointestinal hemorrhage admitted to an intensive care unit. Tobin K, et al. **Am J Med** 1996 Oct;101(4):349–56

Spontaneous intramural haematoma of the oesophagus: radiologic recognition. Clark W, et al. **Australas Radiol** 1996 Aug;40(3):269–72

Spontaneous intramural small bowel haemorrhage: importance of non–contrast CT. Lane MJ, et al. **Clin Radiol** 1997 May;52(5):378–80

Mesenteric angiography for lower gastrointestinal hemorrhage: are there predictors for a positive study? Pennoyer WP, et al. **Dis Colon Rectum** 1997 Sep; 40(9):1014–8

Gastrointestinal bleeding of obscure origin: role of enteroclysis. Antes G, et al. **Eur Radiol** 1996;6(6):851–4

Management of angiogram positive lower gastrointestinal hemorrhage: long term follow–up of non–operative treatments. Pennoyer WP, et al. **Int J Colorectal Dis** 1996; 11(6):279–82

Angiographic detection of gastrointestinal bleeding. An experimental comparison of conventional screen–film angiography and digital subtraction angiography. Krüger K, et al. **Invest Radiol** 1996 Jul;31(7):451–7

Presurgical angiographic localization of small bowel bleeding site with methylene blue injection. Schrodt JF, et al. **J Ky Med Assoc** 1996 May;94(5):192–5

Clinics in diagnostic imaging (16). Lower gastrointestinal bleeding caused by ileal tumour. Au VW, et al. **Singapore Med J** 1996 Aug;37(4):434–7 (10 ref.)

[The diagnostic localization of acute gastrointestinal bleeding in a primarily negative angiographic finding] Sandstede J, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):258–9 (9 ref.) **(Ger)**

[The diagnosis of intra–abdominal hemorrhages with CO2 as the contrast medium] Textor HJ, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):51–3 (Eng. Abstr.) **(Ger)**

[Rectus sheath hematoma––detection of hemorrhage of ruptured aneurysm of the epigastric artery in CT] Weishaupt D, et al. **Vasa** 1997;26(1):55–7 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Inferior mesenteric varix demonstrated by 99mTc–red blood cell gastrointestinal bleeding study. Yoshikai T, et al. **Ann Nucl Med** 1997 May;11(2):163–6

The utility of a rigid protocol for scanning patients with gastrointestinal hemorrhage [letter; comment] Cohn SM, et al. **Ann Surg** 1997 Jul;226(1):112–3. Comment on: Ann Surg 1996 Jul;224(1):29–36.

Accuracy and efficacy of nuclear scintigraphy for the detection of gastrointestinal bleeding. Garofalo TE, et al. **Arch Surg** 1997 Feb;132(2):196–9

Accuracy and efficacy of nuclear scintigraphy for detection of gastrointestinal bleeding [letter] Merlano S, et al. **Arch Surg** 1997 Sep;132(9):1044–5

Scintigraphic localization of recurrent anastomotic site bleeding in the gastrointestinal tract. Bagga S, et al. **Clin Nucl Med** 1996 Apr;21(4):296–8

Simultaneous demonstration of gastrointestinal bleeding and functional femoral–femoral graft. Erkmen Z, et al. **Clin Nucl Med** 1997 Jan;22(1):48–9

Periportal varices detected on a radionuclide bleeding study. Weinberg EP, et al. **Clin Nucl Med** 1996 Apr;21(4):335–6

Predictive value of technetium Tc 99m–labeled red blood cell scintigraphy for positive angiogram in massive lower gastrointestinal hemorrhage. Ng DA, et al. **Dis Colon Rectum** 1997 Apr;40(4):471–7

Scintigraphic diagnosis of gastrointestinal bleeding with 99Tcm–dextran. Bhatnagar A, et al. **Nucl Med Commun** 1996 Oct;17(10):834–8

Sequential subtraction scintigraphy with 99Tcm–RBC for the early detection of gastrointestinal bleeding and the calculation of bleeding rates: phantom and animal studies. Wu Y, et al. **Nucl Med Commun** 1997 Feb;18(2):129–38

Detection and localization of gastrointestinal bleeding. Wyatt RA. **West J Med** 1996 Nov;165(5):306

[Ulcerative colitis and colonic angiodysplasia associated with a lower digestive hemorrhage. Their diagnosis by 99–technetium–labelled red blood cells] Martínez–Caballero A, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):51–4 (16 ref.) (Eng. Abstr.) **(Spa)**

SURGERY

Transjugular intrahepatic portosystemic shunt (TIPS). Thrombogenicity in stents and its effect on shunt patency. Siegerstetter V, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):558–64

Transjugular intrahepatic portosystemic shunt in the treatment of intermittently bleeding stomal varices. Bernstein D, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2237–8

Utility of endoscopic hemoclipping for colonic diverticular bleeding [letter; comment] Hokama A, et al. **Am J Gastroenterol** 1997 Mar;92(3):543–6. Comment on: Am J Gastroenterol 1995 Oct;90(10):1779–84.

Thoracoscopic vagotomy for refractory bleeding after previous gastric surgery [letter] Rubinfeld I, et al. **Am J Gastroenterol** 1996 Dec;91(12):2649–50

Outcome of 100 patients after transjugular intrahepatic portosystemic shunt for variceal hemorrhage [see comments] Sahagun G, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1444–52. Comment in: Am J Gastroenterol 1997 Sep;92(9):1412–6.

A prospective trial of transjugular intrahepatic portasystemic stent shunts versus small–diameter prosthetic H–graft portacaval shunts in the treatment of bleeding varices. Rosemurgy AS, et al. **Ann Surg** 1996 Sep;224(3):378–84; discussion 384–6

Differential effects on portal and effective hepatic blood flow. A comparison between transjugular intrahepatic portasystemic shunt and small–diameter H–graft portacaval shunt. Rosemurgy AS, et al. **Ann Surg** 1997 May; 225(5):601–7; discussion 607–8

Prognostic factors with the use of the transjugular intrahepatic portosystemic shunt for bleeding varices. Tyburski JG, et al. **Arch Surg** 1997 Jun;132(6):626–30; discussion 630–2

The development of a treatment protocol for patients with chronic radiation–induced rectal bleeding. Chapuis P, et al. **Aust N Z J Surg** 1996 Oct;66(10):680–5

Effect of previous sclerotherapy on the outcome of gastro–oesophageal devascularization and oesophageal transection in bleeding oesophageal varices. Alam MK, et al. **Br J Surg** 1996 Dec;83(12):1702–5

Transabdominal extensive oesophagogastric devascularization with gastro–oesophageal stapling in the management of acute variceal bleeding. Mathur SK, et al. **Br J Surg** 1997 Mar;84(3):413–7

Surgery as a 'last resort' option for active variceal bleeding further complicated by iatrogenic oesophageal perforation. Rosiere A, et al. **Br J Surg** 1997 Jun;84(6):858–9

Multifocal gastric neoplasia after recurrent laser therapy for the watermelon stomach. Bernstein CN, et al. **Can J Gastroenterol** 1997 Jul–Aug;11(5):403–6

Balloon occlusion portography to diagnose new–onset left hepatic vein thrombosis and widening of an existing Wallstent TIPS by Palmaz stents for recurrent portal hypertension and variceal bleeding. Cope C, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):368–70

Experience with transjugular intrahepatic portosystemic shunts for gastroesophageal variceal bleeding. Yang CF, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Mar; 57(3):204–13

Shunt insufficiency after transjugular intrahepatic portosystemic stent–shunt: the whens, whys, hows and what should we do about it? [editorial] Jalan R, et al. **Clin Radiol** 1997 May;52(5):329–31

Transjugular intrahepatic portasystemic stent shunt in the treatment of variceal bleeding in hepatocellular cancer. Serafini FM, et al. **Dig Dis Sci** 1997 Jan;42(1):59–65

Nd:YAG laser treatment for bleeding from radiation proctitis [published erratum appears in Endoscopy 1997 Jan;29(1):47] Barbatzas C, et al. **Endoscopy** 1996 Aug; 28(6):497–500

Dieulafoy's ulcer: combined endoscopic and laparoscopic treatment. Bouillot JL, et al. **Endoscopy** 1996 May; 28(4):394–5

Application of a multiple–band ligator in active variceal bleeding. Sackmann M, et al. **Endoscopy** 1996 Aug; 28(6):533

The Saeed Six–Shooter: a prospective study of a new endoscopic multiple rubber–band ligator for the treatment of varices. Saeed ZA. **Endoscopy** 1996 Sep;28(7):559–64

Idiopathic non–familial rectal and colonic varices requiring sigmoidorectal resection and coloanal anastomosis. Detry RJ, et al. **Eur J Gastroenterol Hepatol** 1996 Oct; 8(10):1023–6 (32 ref.)

Argon plasma coagulation (APC) in gastroenterology: experimental and clinical experiences. Johanns W, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):581–7

Transjugular intrahepatic portosystemic shunting (TIPS): a shunt is a shunt is a shunt! [comment] Saksena S, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):3–5 (27 ref.). Comment on: Eur J Gastroenterol Hepatol 1997 Jan;9(1):15–20.

Recurrent intestinal bleeding from jejunojejunostomy caused by portal hypertension following hepatoportojejunostomy in extra hepatic biliary atresia (EHBA)––successful treatment by transjugular intrahepatic portosystemic shunt (TIPS). Astfalk W, et al. **Eur J Pediatr Surg** 1997 Jun; 7(3):147–8

Long–term survival after gastrectomy for advanced bleeding or perforated gastric carcinoma. Gertsch P, et al. **Eur J Surg** 1996 Sep;162(9):723–7

Mesocaval interposition shunting in the treatment of bleeding oesophageal varices. Isaksson B, et al. **Eur J Surg** 1997

Aug;163(8):569–76

Haemorrhage into the pancreatic duct (Hemosuccus pancreaticus): recognition and management. Suter M, et al. **Eur J Surg** 1995 Dec;161(12):887–92

Value of laparotomy in the diagnosis of obscure gastrointestinal haemorrhage. Baillie J. **Gastrointest Endosc** 1997 Feb;45(2):219–20

A prospective evaluation of the endoscopic spectrum of overtube-related esophageal mucosal injury. Dennert B, et al. **Gastrointest Endosc** 1997 Feb;45(2):134–7

Development of hyperplastic polyps following laser therapy for watermelon stomach. Geller A, et al. **Gastrointest Endosc** 1996 Jan;43(1):54–6

A randomized prospective study of endoscopic bipolar electrocoagulation and heater probe treatment of chronic rectal bleeding from radiation telangiectasia. Jensen DM, et al. **Gastrointest Endosc** 1997 Jan;45(1):20–5

Separation of an overtube from the bite block during band ligation of esophageal varices. Levy R, et al. **Gastrointest Endosc** 1997 Jul;46(1):66–8 (12 ref.)

Endoscopic band ligation of a Dieulafoy lesion in the small intestine of a child. Murray KF, et al. **Gastrointest Endosc** 1996 Sep;44(3):336–9

Transthoraco-phrenic esophageal transection with paraesophago-gastric devascularization and splenectomy using a stapler. Tsukada K, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):716–23

The use of transjugular intrahepatic portosystemic shunt and surgical portocaval H-shunt for the treatment of colorectal variceal bleeding. Uemoto S, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):557–60

Portacaval shunt for portal hypertensive gastropathy. Collins JC, et al. **HPB Surg** 1997;10(5):333–5

Emergency portacaval shunts: is Orloff correct? Knechtle SJ, et al. **HPB Surg** 1997;10(4):253–5

Transjugular intrahepatic portacaval shunt (TIPS). Shankaran K, et al. **J Assoc Physicians India** 1995 Feb; 43(2):119–21 (29 ref.)

Endoscopic laser therapy for watermelon stomach. Bourke MJ, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):832–4

Resection of Dieulafoy's lesion by a combined endoscopic and laparoscopic approach. Karanfilian RG, et al. **J Laparoendosc Surg** 1996 Oct;6(5):345–8

Gasless laparoscopic excision of bleeding gastric polyp. Leong HT, et al. **J Laparoendosc Surg** 1996 Jun;6(3):189–91

A 45-year experience with surgical treatment of peptic ulcer disease in children. Azarow K, et al. **J Pediatr Surg** 1996 Jun;31(6):750–3

Management of esophageal varices in children by endoscopic variceal ligation. Price MR, et al. **J Pediatr Surg** 1996 Aug; 31(8):1056–9

Transjugular intrahepatic portosystemic shunt: midterm clinical and angiographic follow-up. Fillmore DJ, et al. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):255–61

Transjugular intrahepatic transcaval portosystemic shunt: the gun-sight approach. Haskal ZJ, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):139–42

Emergency transjugular intrahepatic portosystemic shunt prior to liver transplantation. Steventon DM, et al. **Pediatr Radiol** 1997 Jan;27(1):84–6

Massive arterial bleeding from a single rectal vessel. Harrison JD, et al. **Postgrad Med J** 1997 May;73(859):303–4

Transjugular intrahepatic portosystemic shunt with the Strecker stent for control of refractory acute and chronic variceal bleeding. Canizares RB, et al. **Scand J Gastroenterol** 1996 Mar;31(3):285–93

The conundrum of lower gastrointestinal bleeding. Billingham RP. **Surg Clin North Am** 1997 Feb;77(1):241–52 (63 ref.)

Laparoscopic resection of bleeding gastric polyps. Siu WT, et al. **Surg Endosc** 1997 Mar;11(3):283–4

Intraoperative endoscopy as an adjunct to surgical ligation of multiple arteriovenous malformations. Balserak JC, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):68–70

Esophagogastric devascularization and transection for bleeding esophageal varices: first case presentation. Manzano-Trovamala FJ, et al. **Surg Laparosc Endosc** 1996 Aug;6(4):300–3

Video laparoscopy for the treatment of bleeding esophageal varices. Zilberstein B, et al. **Surg Laparosc Endosc** 1997 Jun;7(3):185–91

Radical esophagogastrectomy for unshuntable extrahepatic portal hypertension with bleeding varices: report of a case. Hirao T, et al. **Surg Today** 1997;27(3):243–6

Transabdominal esophagogastric devascularization as treatment for variceal hemorrhage. Jin G, et al. **Surgery** 1996 Oct;120(4):641–7; discussion 647–9

Angiographic localization with methylene blue and radiopaque microcoil [letter] Leow CK, et al. **Surgery** 1997 Apr;121(4):477–8

Hemodynamic and metabolic effects of transjugular intrahepatic portosystemic shunt (TIPS) during anesthesia for orthotopic liver transplantation. Antonini M, et al. **Transpl Int** 1996;9(4):403–7 (9 ref.)

Transjugular intrahepatic portosystemic shunt and liver transplantation. Lerut JP, et al. **Transpl Int** 1996;9(4):370–5

Modified Sujura operation: long-term results. Battaglia G, et al. **World J Surg** 1996 Mar–Apr;20(3):319–24; discussion 324–5

[The views and attitudes of the Clinic of Emergency Surgery of the Clinical Emergency Medical Center at the Queen Ioanna State University Hospital on the potentials of surgical endoscopy in upper digestive hemorrhages] Viiachki I, et al. **Khirurgiia (Sofiia)** 1996;49(6):5–10 (Eng. Abstr.) **(Bul)**

[Gastric devascularization for acute gastric mucosal lesion and bleeding] Xu R, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):36–9 (Eng. Abstr.) **(Chi)**

[Intrahepatic porto-systemic shunt in the treatment of hemorrhage in portal hypertension] Barange K, et al. **Presse Med** 1997 Jul 12;26(24):1162–7 (55 ref.) (Eng. Abstr.) **(Fre)**

[Acute esophagus variceal hemorrhage and portal vein thrombosis as a complication of TIPSS. An unusual emergency indication for liver transplantation] Braun FM, et al. **Chirurg** 1996 Feb;67(2):190–4 (Eng. Abstr.) **(Ger)**

[Therapy of persistent bleeding esophageal varices using intrahepatic portosystemic stent shunt and immediate liver transplantation] Schlitt HJ, et al. **Chirurg** 1997 Apr; 68(4):385–8 (Eng. Abstr.) **(Ger)**

[Treatment of watermelon stomach (GAVE syndrome) with endoscopic argon plasma coagulation (APC). A new therapy approach] Focke G, et al. **Leber Magen Darm** 1996 Sep;26(5):254, 257–9 (Eng. Abstr.) **(Ger)**

[Argon plasma coagulation in endoscopic therapy of CREST syndrome associated upper gastrointestinal hemorrhage] Klump B, et al. **Z Gastroenterol** 1997 Jun;35(6):469–76 (Eng. Abstr.) **(Ger)**

[Role of surgery in the treatment of acute hemorrhagic non-variceal lesions in the upper gastrointestinal tract] Pinelli D, et al. **G Chir** 1996 Oct;17(10):523–30 (Eng. Abstr.) **(Ita)**

[Operative risk in elderly patients with gastrointestinal hemorrhage] Di Palo S, et al. **Minerva Chir** 1996 Nov; 51(11):953–7 (Eng. Abstr.) **(Ita)**

[Portosystemic shunts in the treatment of bleeding esophageal varices in cirrhotic patients: between sclerotherapy and transplantation] Gozzetti G, et al. **Minerva Chir** 1996 Nov; 51(11):887–95 (Eng. Abstr.) **(Ita)**

[A case of massive bleeding from rectal varices treated with endoscopic variceal ligation (EVL)] Kojima T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):114–9 (16 ref.) **(Jpn)**

[A case of non-traumatic intramural hematoma of the duodenum effectively treated with percutaneous transhepatic aspiration drainage] Nakazawa T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):186–90 **(Jpn)**

[Mesenteric venous thrombosis after azygos-portal disconnection with splenectomy for the treatment of bleeding esophageal varices in mansonian schistosomiasis. Three cases reports] Chaib E, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Mar–Apr; 51(2):65–8 (Eng. Abstr.) **(Por)**

[An intramural hematoma of the duodenum in a child] Konstantinov PI, et al. **Vestn Khir Im I I Grek** 1996;(1):66 **(Rus)**

[The successful treatment of a strangulated femoral hernia and profuse gastric hemorrhage in an elderly female patient] Mochalov OIu, et al. **Vestn Khir Im I I Grek** 1996; 155(3):80 **(Rus)**

[Anesthesia in a patient with Klippel-Trenaunay-Weber syndrome (letter)] López-Moreno JA, et al. **Rev Esp Anestesiol Reanim** 1997 Mar;44(3):127 **(Spa)**

[Shunt surgery versus disconnection in portal hypertension. A comparative study] Bondia JA, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):273–9 (Eng. Abstr.) **(Spa)**

THERAPY

A comparison between gastric and oesophageal variceal haemorrhage treated with transjugular intrahepatic portosystemic stent shunt (TIPSS). Stanley AJ, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):171–6

Transjugular embolization of the inferior mesenteric vein for bleeding anorectal varices after unsuccessful transjugular intrahepatic portosystemic shunt. Demirel H, et al. **Am J Gastroenterol** 1997 Jul;92(7):1226–7

Diagnosis and treatment of gastrointestinal bleeding secondary to portal hypertension. American College of Gastroenterology Practice Parameters Committee. Grace ND. **Am J Gastroenterol** 1997 Jul;92(7):1081–91 (150 ref.)

Band ligation, sclerotherapy, both or ... brains? [editorial; comment] Strauss E. **Am J Gastroenterol** 1997 Jun; 92(6):920–3. Comment on: Am J Gastroenterol 1997 Jun;92(6):950–3.

Selective arterial embolization for the control of lower gastrointestinal bleeding. Gordon RL, et al. **Am J Surg** 1997 Jul;174(1):24–8

Airway obstruction due to a Sengstaken-Blakemore tube. Kelly DJ, et al. **Anesth Analg** 1997 Jul;85(1):219–21

Transjugular intrahepatic portosystemic shunts versus sclerotherapy: a discussion of discordant results [editorial; comment] Conn HO. **Ann Intern Med** 1997 Jun 1; 126(11):907–10. Comment on: Ann Intern Med 1997 Jun 1;126(11):849–57. Comment on: Ann Intern Med 1997 Jun 1;126(11):858–65.

Treatment of active gastroesophageal variceal bleeding with terlipressin or hemostatic balloon in patients with cirrhosis. A randomized controlled trial. García-Compeán D, et al. **Arch Med Res** 1997 Summer;28(2):241–5

Arterial embolization for bleeding pseudocysts complicating chronic pancreatitis. Gambiez LP, et al. **Arch Surg** 1997 Sep;132(9):1016–21

Non-surgical treatment of variceal haemorrhage. Sung JJ. **Br J Hosp Med** 1997 Feb 19–Mar 4;57(4):162–6 (34 ref.)

Sengstaken tube for bleeding rectal angiodysplasia [letter; comment] Basso L, et al. **Br J Surg** 1996 Dec;83(12):1795. Comment on: Br J Surg 1996 Aug;83(8):1111.

Sengstaken tube for bleeding rectal angiodysplasia [see comments] [published erratum appears in Br J Surg 1996 Oct;83(10):1477] Roy MK, et al. **Br J Surg** 1996 Aug; 83(8):1111. Comment in: Br J Surg 1996 Dec;83(12):1795.

Triage for patients with gastrointestinal hemorrhage: patients who don't need intensive care [editorial; comment] Zimmerman JE. **Crit Care Med** 1997 Jul;25(7):1101–2. Comment on: Crit Care Med 1997 Jul;25(7):1125–32.

Emerging role of endoscopic variceal band ligation in the treatment of esophageal varices. El-Newihi HM, et al. **Dig Dis** 1996 May–Jun;14(3):201–8 (37 ref.)

Sclerotherapy in noncirrhotic portal fibrosis. Chawla YK, et al. **Dig Dis Sci** 1997 Jul;42(7):1449–53

Early feeding or enteral nutrition in patients with cirrhosis after bleeding from esophageal varices? A randomized controlled study. de Lédinghen V, et al. **Dig Dis Sci** 1997 Mar;42(3):536–41

A prospective randomized trial of sclerotherapy versus ligation in the elective treatment of bleeding esophageal varices [see comments] Baroncini D, et al. **Endoscopy** 1997 May;29(4):235–40. Comment in: Endoscopy 1997 May;29(4):281–2. Comment in: Endoscopy 1997 May;29(4):283–4.

Prospective, randomized trial of hypertonic glucose water and sodium tetradecyl sulfate for gastric variceal bleeding in patients with advanced liver cirrhosis. Chang KY, et al. **Endoscopy** 1996 Aug;28(6):481–6

Endoscopic treatment of bleeding fundic varices with 50% glucose injection. Chang KY, et al. **Endoscopy** 1996 May; 28(4):398

Transnasal pharyngoesophagogastroduodenoscopy (T-PEGD) in a patient with acute upper gastrointestinal bleeding. Dua KS, et al. **Endoscopy** 1996 Aug;28(6):530

An unusual complication of histoacryl injection. Naga M, et al. **Endoscopy** 1997 Feb;29(2):140

Coping with severe upper gastrointestinal bleeding: nasogastric tube and endoscope used together [letter; comment] Oksüzoglu G, et al. **Endoscopy** 1996 Oct; 28(8):725–6. Comment on: Endoscopy 1994 Sep;26(7):613–6.

Nonvariceal upper gastrointestinal bleeding: an update. Rollhauser C, et al. **Endoscopy** 1997 Feb;29(2):91–105 (130 ref.)

Thrombin and ethanolamine injection therapy in arresting uncontrolled bleeding from duodenal varices. Sans M, et al. **Endoscopy** 1996 May;28(4):403

Sclerotherapy is out—nearly [editorial; comment] Sauerbruch T, et al. **Endoscopy** 1997 May;29(4):281–2 (13 ref.). Comment on: Endoscopy 1997 May;29(4):235–40. Comment on: Endoscopy 1997 May;29(4):241–6.

Is sclerotherapy out? [editorial; comment] Soehendra N, et al. **Endoscopy** 1997 May;29(4):283–4 (10 ref.). Comment on: Endoscopy 1997 May;29(4):235–40. Comment on: Endoscopy 1997 May;29(4):241–6.

Hemostasis by capping bleeding diverticulum of the colon with clips. Yoshikane H, et al. **Endoscopy** 1997 Jun; 29(5):S33–4

Endoscopic injection sclerotherapy of bleeding oesophageal varices: a retrospective analysis. Kassa E. **Ethiop Med J** 1997 Jan;35(1):13–22

Medical prophylaxis of haemorrhage from oesophageal varices in patients with liver cirrhosis. Gross M, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):603–12 (95 ref.)

Clinical outcome two years after implantation of a transjugular intrahepatic portosystemic shunt for recurrent variceal bleeding [see comments] Gschwantler M, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):15–20. Comment in: Eur J Gastroenterol Hepatol 1997 Jan;9(1):3–5.

Acute and chronic management of lower gastrointestinal bleeding: cost-effective approaches. Machicado GA, et al. **Gastroenterologist** 1997 Sep;5(3):189–201 (48 ref.)

Push enteroscopic cauterization: long-term follow-up of 83 patients with bleeding small intestinal angiodysplasia [see comments] Askin MP, et al. **Gastrointest Endosc** 1996 Jun; 43(6):580–3. Comment in: Gastrointest Endosc 1997 Feb;45(2):216–7.

Suction sclerotherapy for the treatment of esophageal varices. Blackard WG, et al. **Gastrointest Endosc** 1996 Dec; 44(6):725–8

Dieulafoy's disease: endosonographic detection and endosonography-guided treatment. Fockens P, et al. **Gastrointest Endosc** 1996 Oct;44(4):437–42

Sclerotherapy for actively bleeding esophageal varices in male alcoholics with cirrhosis. Veterans Affairs Cooperative Variceal Sclerotherapy Group [see comments] Hartigan PM, et al. **Gastrointest Endosc** 1997 Jul;46(1):1–7. Comment in: Gastrointest Endosc 1997 Jul;46(1):83–4.

Management of actively bleeding esophageal varices [editorial; comment] Laine L. **Gastrointest Endosc** 1997 Jul; 46(1):83–4. Comment on: Gastrointest Endosc 1997 Jul;46(1):1–7.

Long-term follow-up of gastric variceal sclerotherapy: an eleven-year experience. Sarin SK. **Gastrointest Endosc** 1997 Jul;46(1):8–14

Dieulafoy's lesion in the rectum. Yeoh KG, et al. **Gastrointest Endosc** 1996 Jun;43(6):614–6

Dieulafoy's disease. Fockens P, et al.
Gastrointest Endosc Clin N Am 1996 Oct;6(4):739–52 (49 ref.)

Colonoscopy for diagnosis and treatment of severe lower gastrointestinal bleeding. Routine outcomes and cost analysis. Jensen DM, et al.
Gastrointest Endosc Clin N Am 1997 Jul;7(3):477–98 (46 ref.)

Gastric vascular ectases. Weiner FR, et al.
Gastrointest Endosc Clin N Am 1996 Oct;6(4):681–96 (58 ref.)

Injection sclerotherapy for oesophageal varices: a ten–year experience. Kiviniemi H, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):546–50

The treatment of gastric varices by a balloon–occluded retrograde transvenous obliteration; a transjugular venous approach. Saeki H, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):571–4

Elastic band ligation for bleeding esophagogastric varices. Van Stiegmann G, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):620–4 (32 ref.)

Emergency banding ligation versus sclerotherapy for the control of active bleeding from esophageal varices. Lo GH, et al. **Hepatology** 1997 May;25(5):1101–4

Transhepatic venous angioplasty and stenting: a treatment option in bleeding from gastric varices secondary to pancreatic carcinoma. Ferguson JM, et al. **HPB Surg** 1997; 10(3):173–5

Diagnostic pitfalls and therapeutic strategies in the treatment of pancreatic duct haemorrhage. Gallagher PJ, et al.
HPB Surg 1997;10(5):293–7

Octreotide in the control of post–sclerotherapy bleeding from oesophageal varices, ulcers and oesophagitis. Jenkins SA, et al. **HPB Surg** 1996;10(1):1–6

Management of angiogram positive lower gastrointestinal hemorrhage: long term follow–up of non–operative treatments. Pennoyer WP, et al. **Int J Colorectal Dis** 1996; 11(6):279–82

Prevention of variceal rebleeding and treatment of liver carcinoma by consecutive transjugular intrahepatic portosystemic shunt and hepatic artery chemoembolization. Nicolini A, et al. **Ital J Gastroenterol** 1996 Jun;28(5):269–71

Oesophageal rupture in the course of conservative treatment of bleeding oesophageal varices. Crerar–Gilbert A.
J Accid Emerg Med 1996 May;13(3):225–7

Endoscopic injection sclerotherapy with 1.5% Sotradecol for bleeding cardiac varices. Chiu KW, et al.
J Clin Gastroenterol 1997 Apr;24(3):161–4

Eleven–year survey of safety and efficacy of endoscopic injection sclerotherapy using 2% sodium tetradecyl sulfate and contrast medium. Iwase H, et al.
J Clin Gastroenterol 1996 Jan;22(1):58–65

Therapeutic results of endoscopic variceal ligation for acute bleeding of oesophageal and gastric varices. Harada T, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):331–5

Endoscopic variceal ligation. A new era of variceal treatment is opened [editorial] Yamamoto M.
J Gastroenterol Hepatol 1997 Apr;12(4):336–7

The impact of endoscopic variceal ligation on the pressure of the portal venous system. Lo GH, et al. **J Hepatol** 1996 Jan;24(1):74–80

Images in hepatology. TIPS and variceal embolization. Waggershauser T, et al. **J Hepatol** 1997 Mar;26(3):736

Prevention of recurrent esophageal bleeding and survival in patients with alcoholic cirrhosis: a randomized study. Urbistondo M, et al. **P R Health Sci J** 1996 Sep;15(3):195–9

The current treatment of oesophageal varices. Terblanche J, et al. **S Afr J Surg** 1997 May;35(2):59–62

The role of an open–access bleeding unit in the management of colonic haemorrhage. A 2–year prospective study. Bramley PN, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):764–9

New approaches to endoscopic therapy for a haemostasis upper GI bleed. Rauws EA, et al.
Scand J Gastroenterol Suppl 1996;218:116–23 (66 ref.)

The management of variceal bleeding. Hudson N, et al.
Scott Med J 1996 Jun;41(3):67–72 (37 ref.)

Efficacy of endoscopic variceal ligation for bleeding esophageal varices in patients with tumor thrombus of the portal vein trunk (Vp3) associated with hepatocellular carcinoma. Kokubu S, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6–139–S6–142

Impaired enterocyte triglyceride synthesis after trauma–hemorrhage and resuscitation. Wang W, et al.
Shock 1997 Jul;8(1):33–9

Treating gastrointestinal bleeding with endoscopic hemoclips. Scapa E. **Surg Laparosc Endosc** 1997 Apr; 7(2):94–6

Emergency endoscopy in patients with portal hypertension having upper gastrointestinal bleeding. Misra SP, et al.
Trop Doct 1997 Jan;27(1):31–4

Impaction of Sengstaken–Blakemore tube—a rare complication. Sarwal R, et al. **Trop Gastroenterol** 1996 Oct–Dec;17(4):221–2

Endoscopic injection treatment of gastrointestinal bleeding in hemophiliacs. Ziemski JM, et al. **World J Surg** 1996 Nov–Dec;20(9):1166–70

[Treatment of a hemorrhagic duodenal varice by endoscopic sclerotherapy] Paupard T, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1051–4 (18 ref.) (Eng. Abstr.) **(Fre)**

[Hemostasis with the endoscope] Bohnacker S, et al.
Internist (Berl) 1996 Aug;37(8):817–22 (30 ref.) **(Ger)**

[Transjugular intrahepatic portasystemic shunt (TIPS)—indications and outcome] Rössle M.
Z Gastroenterol 1997 Jun;35(6):505–15 (78 ref.) (Eng. Abstr.) **(Ger)**

[Sub–intensive management of acute gastrointestinal hemorrhages: possibilities, pitfalls and hopes (letter)] Rácz I. **Orv Hetil** 1997 May 25;138(21):1370 **(Hun)**

[A clinical evaluation of upper gastrointestinal hemorrhage. A 3–year experience of emergency cases, 1993 approximately 1995] Matsuda T, et al.
Nippon Ika Daigaku Zasshi 1997 Feb;64(1):61–4 **(Jpn)**

[Endoscopic treatment of digestive system diseases. 7. Evaluation of the therapeutic results of endoscopic treatment] Suzuki S, et al. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1458–62 **(Jpn)**

[The old and new problems of the antibiotics treatment in hemorrhagic enterocolitis and hemolytic uremic syndrome, according to Japanese epidemiological studies] Kohsaka T, et al. **Nippon Rinsho** 1997 Mar;55(3):706–14 (24 ref.) (Eng. Abstr.) **(Jpn)**

[An erythrocyte suspension in Modegel in the treatment of acute gastrointestinal hemorrhages] Selivanov EA, et al.
Vestn Khir Im I I Grek 1995;154(4–6):76–9 (Eng. Abstr.) **(Rus)**

[Endoscopic ligation with elastic bands in the prevention of hemorrhage recurrence caused by esophageal varices. Study of 45 patients] Brullet E, et al.
Gastroenterol Hepatol 1996 Aug–Sep;19(7):339–43 (Eng. Abstr.) **(Spa)**

[Clinical protocols in digestive system hemorrhage caused by peptic ulcer] Ruiz del Arbol Olmos L, et al.
Rev Esp Enferm Dig 1996 Nov;88(11):785–98 (137 ref.) **(Spa)**

[Non–variceal digestive hemorrhage: intralesional injection or thermal methods?] Farca Belsaguy A, et al.
Rev Gastroenterol Mex 1996 Oct–Dec;61(4 Suppl 2):S33–7 **(Spa)**

[Gastroesophageal varices hemorrhage: non–surgical treatment] García–Tsao G. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S87–9 **(Spa)**

[Hemorrhagic portal hypertension: medical, endoscopic, TIPS, or surgical treatment?] Orozco Zepeda H.
Rev Gastroenterol Mex 1996 Oct–Dec;61(4 Suppl 2):S82–6 **(Spa)**

[Therapeutic program for esophageal varices. Swedish Society for Gastroenterology] Olsson R, et al.
Lakartidningen 1996 Sep 18;93(38):3252–4, 3256 **(Swe)**

ULTRASONOGRAPHY

Dieulafoy's disease: endosonographic detection and endosonography–guided treatment. Fockens P, et al.
Gastrointest Endosc 1996 Oct;44(4):437–42

VETERINARY

The use of a synthetic prostaglandin E1 analog as a gastric protectant against aspirin–induced hemorrhage in the dog. Bowersox TS, et al. **J Am Anim Hosp Assoc** 1996 Sep–Oct; 32(5):401–7

Massive gastric hemorrhage induced by buffered aspirin in a greyhound. Shaw N, et al. **J Am Anim Hosp Assoc** 1997 May–Jun;33(3):215–9

Experimental detection of canine haemoglobin (occult blood) in canine faeces by reversed passive latex agglutination. Jinbo T, et al. **Vet Res Commun** 1997 Jul;21(5):347–53

Detection and characterization of enterohaemorrhagic Escherichia coli in slaughtered cattle. Borie CF, et al.
Zentralbl Veterinarmed [B] 1997 Jul;44(5):273–9

GASTROINTESTINAL HORMONE RECEPTORS see **RECEPTORS, GASTROINTESTINAL HORMONE**

GASTROINTESTINAL HORMONES

see related
GASTROINTESTINAL AGENTS
RECEPTORS, GASTROINTESTINAL HORMONE

Gut hormones. Yesterday, today, and tomorrow [editorial] Mulvihill SJ. **Ann Surg** 1997 Feb;225(2):143–4

Use of peptide receptor agonists and antagonists for diagnosis and treatment. Jensen RT. **Digestion** 1997;58 Suppl 1:86–93 (26 ref.)

ANALYSIS

PeptideYY and insulin coexist in beta–granules in B cells of the Madagascan lizard, Zonosaurus laticaudatus. Putti R, et al. **Gen Comp Endocrinol** 1996 Sep;103(3):249–56

Complex co–localization of chromogranins and neurohormones in the human gastrointestinal tract. Portela–Gomes GM, et al. **J Histochem Cytochem** 1997 Jun;45(6):815–22

ANTAGONISTS & INHIBITORS

Sodium fluoride inhibits the antisecretory effect of peptide YY and its analog in rabbit jejunum. Eto B, et al.
Arch Physiol Biochem 1996;104(2):180–4

Selective inhibition of neuropeptide Y Y1 receptors by BIBP3226 in rat and human epithelial preparations. Tough IR, et al. **Eur J Pharmacol** 1996 Aug 22;310(1):55–60

BLOOD

Age–related changes of serum progastrin–releasing peptide levels during childhood. Adachi N, et al.
Acta Paediatr Jpn 1997 Jun;39(3):336–8

Reduced food intake after jejunoileal bypass: a possible association with prolonged gastric emptying and altered gut hormone patterns [see comments] Näslund E, et al. **Am J Clin Nutr** 1997 Jul;66(1):26–32. Comment in: Am J Clin Nutr 1997 Jul;66(1):184–5.

Fermentable dietary fibre, intestinal microflora and plasma hormones in the rat. Ghatei MA, et al. **Clin Sci (Colch)** 1997 Aug;93(2):109–12

Kinetics of pancreatic exocrine secretion and plasma gut regulatory peptide release in response to feeding in preruminant and ruminant calves. Le Dréan G, et al.
Comp Biochem Physiol A Physiol 1997 Jun;117(2):245–55

Influence of type of dietary fat (olive and sunflower oil) upon gastric acid secretion and release of gastrin, somatostatin, and peptide YY in man. Serrano P, et al. **Dig Dis Sci** 1997 Mar;42(3):626–33

Gastrointestinal hormones in short bowel syndrome. Peptide YY may be the 'colonic brake' to gastric emptying [see comments] Nightingale JM, et al. **Gut** 1996 Aug; 39(2):267–72. Comment in: Gut 1997 Jan;40(1):157.

Gastrointestinal hormones and gastric emptying 20 years after jejunoileal bypass for massive obesity. Näslund E, et al.
Int J Obes Relat Metab Disord 1997 May;21(5):387–92

Gastrointestinal peptide hormones in acute viral hepatitis. Budillon G, et al. **Ital J Gastroenterol** 1996 Feb–Mar; 28(2):86–90

A double–blind placebo–controlled study on the effects of omeprazole on gut hormone secretion and gastric emptying rate. Rasmussen L, et al. **Scand J Gastroenterol** 1997 Sep; 32(9):900–5

Hormone–cytokine response. Pneumoperitoneum vs abdominal wall–lifting in laparoscopic cholecystectomy. Yoshida T, et al. **Surg Endosc** 1997 Sep;11(9):907–10

[Usefulness and limits of intraoperative hormone determination in the surgery of endocrine duodeno–pancreatic tumors. Experience of 74 cases] Proye C, et al. **Ann Endocrinol (Paris)** 1996;57(6):508–19 (Eng. Abstr.) **(Fre)**

CHEMISTRY

High potency antagonists of the pancreatic glucagon–like peptide–1 receptor. Montrose–Rafizadeh C, et al.
J Biol Chem 1997 Aug 22;272(34):21201–6

Identification of proxenin as a precursor of the peptide xenin with sequence homology to yeast and mammalian coat protein alpha. Hamscher G, et al. **Peptides** 1996; 17(6):889–93

METABOLISM

Cardiovascular and hormonal responses to a meal in hypertrophic cardiomyopathy: a comparison of patients with and without postprandial exacerbation of symptoms. Gilligan DM, et al. **Clin Cardiol** 1996 Feb;19(2):129–35

Role of peptide YY and enteroglucagon after low anterior resection. Comparison between straight and colonic J–pouch anastomosis. Hallböök O, et al.
Dis Colon Rectum 1996 Oct;39(10):1153–8

[125I]Leu31, Pro34–PYY is a high affinity radioligand for rat PP1/Y4 and Y1 receptors: evidence for heterogeneity in pancreatic polypeptide receptors. Gehlert DR, et al.
Peptides 1997;18(3):397–401

Gastroenteropancreatic tumours and prohormones. Rehfeld JF, et al. **Scand J Gastroenterol Suppl** 1996;216:39–45 (52 ref.)

PHARMACOKINETICS

Glucagon–like peptide–1(7–37) has a larger volume of distribution than glucagon–like peptide–1(7–36)amide in dogs and is degraded more quickly in vitro by dog plasma. Pridal L, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jan–Mar;21(1):51–9

PHARMACOLOGY

Intestinal function in mice with small bowel growth induced by glucagon–like peptide–2. Brubaker PL, et al.
Am J Physiol 1997 Jun;272(6 Pt 1):E1050–8

Peptide YY and the Y2 agonist PYY–(13–36) inhibit neurons of the dorsal motor nucleus of the vagus. Chen CH, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R213–8

An amino–terminal fragment of LCRF, LCRF–(1–35), has the same activity as the natural peptide. Spannagel AW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G754–8

Influence of fasting and neuropeptide Y on the suppressive food intake induced by intracerebroventricular injection of glucagon–like peptide–1 in the neonatal chick. Furuse M, et al. **Brain Res** 1997 Aug 1;764(1–2):289–92

Effect of neural blockades, gastrointestinal regulatory peptides, and diversion of gastroduodenal contents on periodic pancreatic secretion in the preruminant calf. Zabielski R, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1616–24

Effects of subcutaneous glucagon–like peptide 1 (GLP–1 [7–36 amide]) in patients with NIDDM. Nauck MA, et al. **Diabetologia** 1996 Dec;39(12):1546–53

Truncated and full–length glucagon–like peptide–1 (GLP–1) differentially stimulate intestinal somatostatin release.

Brubaker PL, et al. **Endocrine** 1997 Feb;6(1):91–5

Peptide YY inhibition of rat gastric enterochromaffin-like cell function. Zeng N, et al. **Gastroenterology** 1997 Jan; 112(1):127–35

Role of peptide YY in regulation of duodenal motility during the interdigestive period in sheep. Onaga T, et al. **J Comp Physiol [B]** 1997 Jul;167(5):352–60

Effects of growth factors and gut hormones on proliferation of primary cultured gastric mucous cells of guinea pig. Matsuda K, et al. **J Gastroenterol** 1996 Aug;31(4):498–504

Gastroenteropancreatic effects of xenin in the dog. Feurle GE, et al. **J Pept Res** 1997 Apr;49(4):324–30

Evaluation of intestinal antisecretory peptides coefficient of dissociation: a functional approach. Eto B. **Methods Find Exp Clin Pharmacol** 1995 Dec;17(10):685–91

Gastrin-releasing peptide mobilizes calcium from intracellular stores in HIT-T15 cells. Karlsson S, et al. **Peptides** 1996;17(6):909–16

Differential effects of subcutaneous GLP-1 on gastric emptying, antroduodenal motility, and pancreatic function in men. Schirra J, et al. **Proc Assoc Am Physicians** 1997 Jan;109(1):84–97

Peptide YY-induced alteration of colonic electrolyte transport in the rat. Nakanishi T, et al. **Regul Pept** 1996 Feb 22;61(2):149–54

Glucagon-like peptide-1 7-36 amide and peptide YY have additive inhibitory effect on gastric acid secretion in man. Wettergren A, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):552–5

Cholecystokinin mediation of colonic absorption via peptide YY: foregut-hindgut axis. Liu CD, et al. **World J Surg** 1996 Feb;20(2):221–7

Inhibition of unstimulated exocrine pancreatic secretion by peptide YY in the rat. Robinson DC, et al. **World J Surg** 1996 Feb;20(2):208–14

PHYSIOLOGY

A role for islet peptide YY in the regulation of insulin secretion. Karlsson S, et al. **Acta Physiol Scand** 1996 Jun; 157(2):305–6

Epithelial cell growth and differentiation. I. Intestinal growth factors. Drucker DJ. **Am J Physiol** 1997 Jul;273(1 Pt 1):G3–6 (13 ref.)

Appetite regulation by carbohydrate: role of blood glucose and gastrointestinal hormones. Lavin JH, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E209–14

Antisecretory mechanisms of peptide YY in rat distal colon. Whang EE, et al. **Dig Dis Sci** 1997 Jun;42(6):1121–7

Regulation of islet hormone gene expression by incretin hormones. Fehmann HC, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:56–65 (60 ref.)

American Gastroenterological Association. A century of regulatory peptides: from discovery to function. Makhlouf GM. **Gastroenterology** 1997 Jun;112(6):2111–3

Peptide YY and electrolyte homeostasis [letter; comment] Playford RJ, et al. **Gut** 1997 Jan;40(1):157. Comment on: Gut 1996 Aug;39(2):267–72.

Reduced meal-related gastrointestinal hormone response to adrenocorticotropic hormone stimulation test in female athletes. Lindén Hirschberg A, et al. **Gynecol Endocrinol** 1997 Apr;11(2):83–9

Evidence for a role of the gut hormone PYY in the regulation of intestinal fatty acid-binding protein transcripts in differentiated subpopulations of intestinal epithelial cell hybrids. Halldén G, et al. **J Biol Chem** 1997 May 9; 272(19):12591–600

PYY and NPY: control of gastric motility via action on Y1 and Y2 receptors in the DVC. Chen CH, et al. **Neurogastroenterol Motil** 1997 Jun;9(2):109–16

Endogenous prostaglandins and microflora modulate DNA synthesis and neuroendocrine peptides in the rat gastrointestinal tract. Uribe A, et al. **Scand J Gastroenterol** 1997 Jul;32(7):691–9

Gastrointestinal endocrinology. Holst JJ, et al. **Scand J Gastroenterol Suppl** 1996;216:27–38 (74 ref.)

Gut regulatory peptides in young cattle and sheep. Guilloteau P, et al. **Zentralbl Veterinarmed A** 1997 Mar;44(1):1–23 (122 ref.)

[Anders Jahres PRIZE 1996. Current biological and clinical aspects of gastrointestinal hormones] Rehfeld JF. **Nord Med** 1997 Feb;112(2):40–3 (15 ref.) (Eng. Abstr.) **(Dan)**

[The intestinal hormone glucagon-like peptide 1 (GLP-1): from experiment to the clinic] Göke B, et al. **Z Gastroenterol** 1997 Apr;35(4):285–94 (62 ref.) (Eng. Abstr.) **(Ger)**

[Gastrointestinal hormones in the normal state and in pregnancy] Varlamova TM. **Ter Arkh** 1996;68(2):72–5 (52 ref.) **(Rus)**

[The integration of neuromediators and hormones in the digestive system] Ovsiannikov VI. **Vestn Ross Akad Med Nauk** 1996;(1):33–6 (27 ref.) (Eng. Abstr.) **(Rus)**

SECRETION

Comparison of the effects of transforming growth factor alpha and epidermal growth factor on gastrointestinal proliferation and hormone release. Playford RJ, et al. **Digestion** 1996;57(5):362–7

Luminal peptide YY-releasing factors in the isolated vascularly perfused rat colon. Plaisancié P, et al. **J Endocrinol** 1996 Dec;151(3):421–9

Gastroenteropancreatic effects of xenin in the dog. Feurle GE, et al. **J Pept Res** 1997 Apr;49(4):324–30

Meal-induced secretion of gastrointestinal regulatory peptides is not affected by sleep. Soffer EE, et al. **Neurogastroenterol Motil** 1997 Mar;9(1):7–12

Acute incretin response to oral glucose is associated with stimulation of gastric inhibitory polypeptide, not glucagon-like peptide in young subjects. Limb C, et al. **Pediatr Res** 1997 Mar;41(3):364–7

Secretion of the incretin hormones glucagon-like peptide-1 and gastric inhibitory polypeptide correlates with insulin secretion in normal man throughout the day. Orskov C, et al. **Scand J Gastroenterol** 1996 Jul;31(7):665–70

Vagal regulation of the gastrointestinal neuroendocrine system. Qian B, et al. **Scand J Gastroenterol** 1996 Jun; 31(6):529–40 (146 ref.)

THERAPEUTIC USE

Clinical uses of gut peptides. Geoghegan J, et al. **Ann Surg** 1997 Feb;225(2):145–54 (129 ref.)

GASTROINTESTINAL MOTILITY

A new method for evaluating small intestinal motility using duplex Doppler sonography. Gimondo P, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):187–92

Colonic motility and tone after spinal cord and cauda equina injury. Bruninga K, et al. **Am J Gastroenterol** 1997 May; 92(5):891–4

A pilot study of motility and tone of the left colon in patients with diarrhea due to functional disorders and dysautonomia. Choi MG, et al. **Am J Gastroenterol** 1997 Feb;92(2):297–302

Orthotopic liver transplantation improves small bowel motility disorders in cirrhotic patients. Madrid AM, et al. **Am J Gastroenterol** 1997 Jun;92(6):1044–5

Motility and tone of the left colon in constipation: a role in clinical practice? O'Brien MD, et al. **Am J Gastroenterol** 1996 Dec;91(12):2532–8

Gastric emptying and gastrointestinal transit during lactation in rats. Chen TS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G626–31

Mechanisms behind changes in gastric acid and bicarbonate outputs during the human interdigestive motility cycle. Dalenbäck J, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G113–22

Neural integration of jejunal motility and ion transport in nematode-infected ferrets. Greenwood B, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G48–55

Hyperglycemia affects proximal gastric motor and sensory function during small intestinal triglyceride infusion. Hebbard GS, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G814–9

Altered contractility of circular and longitudinal muscle in TNBS-inflamed guinea pig ileum. Martinolle JP, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1258–67

Central inhibition of nitric oxide synthase modulates upper gastrointestinal motor activity. Ohta D, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G417–24

Interaction between prostanoids, NO, and VIP in modulation of duodenal alkaline secretion and motility. Sababi M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G582–90

Impairment of Kit-dependent development of interstitial cells alters contractile responses of murine intestinal tract. Sato D, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G762–71

Relationships between gastric motility and gastric vagal afferent responses to CCK and GRP in rats differ. Schwartz GJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1726–33

Measurement of proximal and distal gastric motility with magnetic resonance imaging. Schwizer W, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G217–22

Increased intestinal muscle contractility and worm expulsion in nematode-infected mice. Vallance BA, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G321–7

Jejunal feeding in the absence of reflux increases nasogastric output in critically ill trauma patients. Chendrasekhar A. **Am Surg** 1996 Nov;62(11):887–8

Intestinal neuronal dysplasia. Defining a new cause for chronic constipation [editorial] Hutson JM. **Aust Fam Physician** 1996 Sep;25(9):1357

Metabolism of glycosyl ureides by human intestinal brush border enzymes. Ruemmele FM, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):275–80

Neither motor responses nor gastric emptying vary in response to formula temperature in preterm infants. Anderson CA, et al. **Biol Neonate** 1996;70(5):265–70

Effects of experimentally-impaired reticular contractions on digesta passage in sheep. Kaske M, et al. **Br J Nutr** 1997 Jul;78(1):97–110

Effect of extended parietal cell vagotomy on long-term nutrition and digestive function. Li S, et al. **Chin Med J (Engl)** 1996 Nov;109(11):868–72

Gastric and intestinal dysmotility syndromes. Soffer EE. **Cleve Clin J Med** 1997 Feb;64(2):69–71 (9 ref.)

Evaluation of delayed gastric emptying in diabetic patients with autonomic neuropathy by a new magnetic resonance imaging technique and radio-opaque markers. Lehmann R, et al. **Diabetes Care** 1996 Oct;19(10):1075–82

Current advances and controversies in the surgical therapy for anorectal motility disorders. Nyam DC, et al. **Dig Dis** 1997;15 Suppl 1:93–103 (72 ref.)

Role of colonic motility in guiding therapy in patients with constipation. Snape WJ Jr. **Dig Dis** 1997;15 Suppl 1:104–11 (78 ref.)

Upper gastrointestinal motor activity in patients with slow-transit constipation. Further evidence for an enteric neuropathy. Bassotti G, et al. **Dig Dis Sci** 1996 Oct; 41(10):1999–2005

Altered small bowel motility in patients with liver cirrhosis depends on severity of liver disease. Madrid AM, et al. **Dig Dis Sci** 1997 Apr;42(4):738–42

Relationship between interdigestive motility and secretion of immunoglobulin A in human proximal small intestine. Mellander A, et al. **Dig Dis Sci** 1997 Mar;42(3):554–67

M1-muscarinic mechanisms regulate interdigestive cycling of motor and secretory activity in human upper gut. Nelson DK, et al. **Dig Dis Sci** 1996 Oct;41(10):2006–15

Effect of viscous fiber (guar) on postprandial motor activity in human small bowel. Schönfeld J, et al. **Dig Dis Sci** 1997 Aug;42(8):1613–7

Ambulatory small intestinal manometry. Detailed comparison of duodenal and jejunal motor activity in healthy man. Wilmer A, et al. **Dig Dis Sci** 1997 Aug;42(8):1618–27

Clinical value of anorectal manometry index in neurogenic fecal incontinence. Meshkinpour H, et al. **Dis Colon Rectum** 1997 Apr;40(4):457–61

Prolonged ambulatory small intestinal and colonic motility monitoring: potential in irritable bowel syndrome--first report of prolonged ambulatory oesophageal, small intestinal and colonic motility in the same patient. Raimundo AH, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):81–4

Gallstones in a community free of obesity but prone to slow intestinal transit. Spathis A, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):201–6

Haemodynamic changes in the small intestine correlate to migrating motor complex in humans. Thollander M, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):777–85

The immunomodulation of enteric neuromuscular function: implications for motility and inflammatory disorders. Collins SM. **Gastroenterology** 1996 Dec;111(6):1683–99 (179 ref.)

Altered postprandial motility in chronic pancreatitis: role of malabsorption. Layer P, et al. **Gastroenterology** 1997 May; 112(5):1624–34

Abnormal intestinal motility in irritable bowel syndrome [letter; comment] Schmidt T, et al. **Gastroenterology** 1996 Nov;111(5):1400–1. Comment on: Gastroenterology 1996 Feb;110(2):393–404.

Contribution of gastrointestinal transit and pouch characteristics in determining pouch function. Goldberg PA, et al. **Gut** 1997 Jun;40(6):790–3

Gastrointestinal motor mechanisms in hyperglycaemia induced delayed gastric emptying in type I diabetes mellitus. Samsom M, et al. **Gut** 1997 May;40(5):641–6

Intestinal dysmotility: does the X-ray resolve the real dilemma? [editorial; comment] Camilleri M. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):100–1. Comment on: J Pediatr Gastroenterol Nutr 1997 Jan;24(1):102–12.

Gastrointestinal pH, motility/transit and permeability in cystic fibrosis. Gregory PC. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):513–23 (112 ref.)

Intestinal motility after massive small bowel resection in conscious canines: comparison of acute and chronic phases. Uchiyama M, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct; 23(3):217–23

Motor activity of refashioned colorectoanus in patients with total colonic aganglionosis. Endo M, et al. **J Pediatr Surg** 1996 Feb;31(2):283–90

Segmental colonic motility in patients with anorectal malformations. Rintala RJ, et al. **J Pediatr Surg** 1997 Mar; 32(3):453–6

Effect of circumcostal gastropexy on gastric myoelectric and motor activity in dogs. Hall JA, et al. **J Small Anim Pract** 1997 May;38(5):200–7

Effects of nitric oxide on canine gastrointestinal motility. Ojima Y, et al. **J Smooth Muscle Res** 1995 Dec;31(6):456–8

The effect of endotoxin on canine jejunal motility and transit. Cullen JJ, et al. **J Surg Res** 1997 Jan;67(1):54–7

Calcium release from intracellular stores and excitation-contraction coupling in intestinal smooth muscle. Oh ST, et al. **J Surg Res** 1997 Jul 15;71(1):79–86

Difficulty in estimating localized bowel contraction by colonic manometry: a simultaneous recording of intraluminal pressure and luminal calibre. Sasaki Y, et al. **Neurogastroenterol Motil** 1996 Sep;8(3):247–53

Volume shifts, unfolding and rolling of haustra in the isolated guinea pig caecum. Schulze-Delrieu K, et al. **Neurogastroenterol Motil** 1996 Sep;8(3):217–25

The use of poly R-478 as a marker to determine gastric emptying and intestinal propulsive motility in suckling rats. Shinohara H, et al. **Physiol Res** 1995;44(5):281–6

Disturbed gastric motor activity in patients with human immunodeficiency virus infection. Konturek JW, et al. **Scand J Gastroenterol** 1997 Mar;32(3):221–5

Stool form scale as a useful guide to intestinal transit time. Lewis SJ, et al. **Scand J Gastroenterol** 1997 Sep;32(9):920–4

Large-scale ambulatory study of postprandial jejunal motility in irritable bowel syndrome. Small PK, et al. **Scand J Gastroenterol** 1997 Jan;32(1):39–47

Effects of parenteral nutrients on gastrointestinal motility and secretion. Masclee AA, et al.
Scand J Gastroenterol Suppl 1996;218:50–5 (81 ref.)

Gastrointestinal recovery of laparoscopic vs open colon surgery [letter] Franklin ME Jr. **Surg Endosc** 1997 Apr; 11(4):404–5

Postprandial motor activity and its relationship to transit in the canine ileum. Johnson CP, et al. **Surgery** 1997 Feb; 121(2):182–9

Pancreatic head resection with and without preservation of the duodenum: different postoperative gastric motility. Naritomi G, et al. **Surgery** 1996 Nov;120(5):831–7

In situ neural isolation of the entire canine upper gut: effects on fasting and fed motility patterns. Siadati MR, et al. **Surgery** 1997 Feb;121(2):174–81

A novel technique for reconstruction of the proximal alimentary tract after bowel transplantation for intestinal pseudo-obstruction [letter] Margreiter R, et al.
Transpl Int 1997;10(3):247–8

Small bowel myoelectrical activity after transplantation in pigs: motility versus ACR score. Costa A, et al.
Transplant Proc 1997 May;29(3):1809–10

Altered but preserved motility of a human small bowel allograft. Pernthaler H, et al. **Transplant Proc** 1996 Oct; 28(5):2794

Motility and absorption in the transplanted gut. Sarr MG. **Transplant Proc** 1996 Oct;28(5):2535–8 (30 ref.)

[Simultaneous study of tones of the lower esophageal sphincter and proximal stomach in healthy humans] Zerbib F, et al. **Gastroenterol Clin Biol** 1996;20(12):1078–83 (Eng. Abstr.) **(Fre)**

[The effect of lumbar relief orthoses with abdominal compression on esophago-gastrointestinal motility] Pfaffenbach B, et al. **Dtsch Med Wochenschr** 1996 Dec 20; 121(51–52):1592–7 (Eng. Abstr.) **(Ger)**

[Strain gauge measurement of digestive tract motility in gastric tube reconstruction] Fujiwara K, et al.
J Smooth Muscle Res 1995 Dec;31(6):355–7 **(Jpn)**

[An experimental study on the esophageal sphincter and pylorus motility during vomiting] Hanyu H, et al.
J Smooth Muscle Res 1995 Dec;31(6):370–3 **(Jpn)**

[Phase III contraction inhibition and gastric acidification in Pavlov and Heidenhain pouch in dogs] Mochiki H, et al.
J Smooth Muscle Res 1995 Dec;31(6):498–503 **(Jpn)**

[Duodenal gastric reflux and duodenal motility] Shiga Y, et al. **J Smooth Muscle Res** 1995 Dec;31(6):374–7 **(Jpn)**

[Analysis of colonic motility by fast Fourier transform] Takekawa S. **J Smooth Muscle Res** 1996 Oct;32(5):203–12 (Eng. Abstr.) **(Jpn)**

[Relationship between distal colonic motility and nitric oxide in anesthetized rats] Yamashita T, et al.
J Smooth Muscle Res 1995 Dec;31(6):447–9 **(Jpn)**

[Comparison of preoperative and postoperative electrogastrography on digestive tract motility in cholelithiasis] Yoshitomi A, et al. **J Smooth Muscle Res** 1995 Dec;31(6):433–4 **(Jpn)**

[Relationship between Oddi's sphincter and contraction of duodenum] Yuzuki Y, et al. **J Smooth Muscle Res** 1995 Dec;31(6):414–5 **(Jpn)**

[Electrogastrography (EGG)] Ishii T, et al.
Nippon Rinsho 1997 Apr;55 Suppl 2:153–5 (6 ref.) **(Jpn)**

[Tests of gastric motility] Miyazaki M, et al.
Nippon Rinsho 1997 Apr;55 Suppl 2:128–31 (5 ref.) **(Jpn)**

[Involvement of endogenous nitric oxide in the regulation of distal colonic motility in anaesthetized rat] Yamashita T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug; 93(8):537–43 (Eng. Abstr.) **(Jpn)**

[New development in study of gastrointestinal motility] Nishi K, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):172–4 (0 ref.) **(Jpn)**

[Motility deficits in Roux-loop gastrojejunal reconstruction after the surgical treatment of reflux diseases (the Roux stasis syndrome)] Mateş IN, et al. **Chirurgia (Bucur)** 1997 May–Jun;92(3):187–98 (50 ref.) (Eng. Abstr.) **(Rum)**

[A computer-automated electrophysiological device for studying the motor function of the gastrointestinal tract in the anesthetized rat] Panteleev SS, et al.
Fiziol Zh Im I M Sechenova 1996 Apr;82(4):135–40 **(Rus)**

[Evaluation of the absorptive and motor-emptying function of the small intestine in the treatment of fistulas of the small intestine] Antoniuk SM, et al. **Klin Khir** 1996;(8):5–6 **(Rus)**

[Correction of duodenal motility in acute pancreatitis] Kurko VS, et al. **Klin Med (Mosk)** 1996;74(4):66 **(Rus)**

[The significance of periodic gastric and duodenal motor activity in the clinical picture and combined treatment of patients with chronic acalculous cholecystopancreatitis] Polous IuM, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):63–5 (Eng. Abstr.) **(Rus)**

[An automated system for evaluation of gastric motor function in duodenal ulcer] Gasparian SA, et al.
Med Tekh 1996 Nov–Dec;(6):6–9 (Eng. Abstr.) **(Rus)**

[The bioelectrical activity and evacuatory function of the digestive tract studied in the diagnosis of acute surgical diseases of the abdominal cavity organs and of postoperative complications] Kariakin AM, et al.
Vestn Khir Im I I Grek 1996;155(4):52–4 (Eng. Abstr.) **(Rus)**

[Ear acupuncture has a hypotonic effect on the gastrointestinal tract] Borozan S, et al. **Vojnosanit Pregl** 1996 Jan–Feb;53(1):31–3 (Eng. Abstr.) **(Scr)**

DRUG EFFECTS

Review article: the use of botulinum toxin in the alimentary tract. Albanese A, et al. **Aliment Pharmacol Ther** 1995 Dec; 9(6):599–604 (20 ref.)

Symptomatic improvement with one-year cisapride treatment in neuropathic chronic intestinal dysmotility. Camilleri M, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):403–9

Mebeverine alters small bowel motility in irritable bowel syndrome. Evans PR, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):787–93

Use of prokinetic agents in special populations. Horn JR. **Am J Health Syst Pharm** 1996 Nov 15;53(22 Suppl 3):S27–9 (25 ref.)

Neural mediation of the motilin motor effect on the human antrum. Boivin M, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G71–6

Wortmannin inhibits contraction without altering electrical activity in canine gastric smooth muscle. Burke EP, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1405–12

Ondansetron reduces nausea induced by gastroduodenal stimulation without changing gastric motility. Feinle C, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G591–7

Role of endogenous 5-hydroxytryptamine in the regulation of gastric contractions by motilin in dogs. Haga N, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G20–8

Hindbrain effects of PACAP on gastric motor function in the rat. Krowicki ZK, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1221–9

Pancreatic spasmolytic polypeptide protects the gastric mucosa but does not inhibit acid secretion or motility. McKenzie C, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G112–7

Inhibition of mechanical activity by neurotensin in rat proximal colon: involvement of nitric oxide. Mulè F, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G491–7

Effect of metoclopramide on fed-state gastric myoelectric and motor activity in dogs. Hall JA, et al.
Am J Vet Res 1996 Nov;57(11):1616–22

Cardiopulmonary and gastrointestinal motility effects of xylazine/ketamine-induced anesthesia in horses previously treated with glycopyrrolate. Singh S, et al.
Am J Vet Res 1996 Dec;57(12):1762–70

Erythromycin—a pro-kinetic and pro-arrhythmogenic agent [letter; comment] Kluger MT. **Anaesth Intensive Care** 1997 Jun;25(3):318–9. Comment on: Anaesth Intensive Care 1996 Dec;24(6):728.

Opposite gastric motor effects of PACAP38 and VIP when microinjected into the nucleus raphe obscurus of rats. Krowicki ZK, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:655–60

Effects of two oral erythromycin ethylsuccinate formulations on the motility of the small intestine in human beings. Caron F, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1796–800

A new series of 6-chloro-2,3-dihydro-4(1H)-quinazolinone derivatives as antiemetic and gastrointestinal motility enhancing agents. Baldazzi C, et al.
Arzneimittelforschung 1996 Sep;46(9):911–8

Role of nitric oxide in gastrokinetic effects of the new benzoxepine derivative exepanol hydrochloride. Chaudhuri L, et al. **Arzneimittelforschung** 1996 Sep;46(9):923–5

CP2289, a new 5-HT3 receptor ligand: agonistic activities on gastroenteric motility. Sato Y, et al.
Biol Pharm Bull 1997 Jul;20(7):752–5

Effects of trout bradykinin on the motility of the trout stomach and intestine: evidence for a receptor distinct from mammalian B1 and B2 subtypes. Jensen J, et al.
Br J Pharmacol 1997 Jun;121(3):526–30

Analysis of contributions of acetylcholine and tachykinins to neuro-neuronal transmission in motility reflexes in the guinea-pig ileum. Johnson PJ, et al. **Br J Pharmacol** 1996 Jun;118(4):973–83

Oral erythromycin improves gastrointestinal motility and transit after subtotal but not total gastrectomy for cancer. Altomare DF, et al. **Br J Surg** 1997 Jul;84(7):1017–21

Modification of cardiopulmonary and intestinal motility effects of xylazine with glycopyrrolate in horses. Singh S, et al. **Can J Vet Res** 1997 Apr;61(2):99–107

Synthesis and biological activity of 4-amino-5-chloro-2-ethoxy-3-hydroxybenzamides, metabolites of a new gastroprokinetic agent, mosapride. Kato S, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug; 44(8):1484–92

Inhibitory effects of short intravascular infusions of propionate on reticulo-rumen motility in the sheep. McLeay LM, et al. **Comp Biochem Physiol A Physiol** 1996 Sep;115(1):63–71

Presence of gonadotropin-releasing hormone (GnRH) receptor mRNA in rat myenteric plexus cells. Ho JS, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr; 113(4):817–21

Pharmacological stimulation of gastrointestinal motility: where we are and where are we going? Scarpignato C. **Dig Dis** 1997;15 Suppl 1:112–36 (134 ref.)

Effects of octreotide on manometric variables in patients with neuropathic abnormalities of the small bowel. Bassotti G, et al. **Dig Dis Sci** 1997 Aug;42(8):1634–9

Expression of muscarinic receptor subtypes in rat gastric smooth muscle: effect of M3 selective antagonist on gastric motility and emptying. Lin S, et al. **Dig Dis Sci** 1997 May; 42(5):907–14

Effect of cholecystokinin octapeptide and atropine on human colonic motility, tone, and transit. O'Brien MD, et al.
Dig Dis Sci 1997 Jan;42(1):26–33

Effect of ethanol on postprandial duodenojejunal motility in humans. Schmidt T, et al. **Dig Dis Sci** 1997 Aug; 42(8):1628–33

Gastric motility and mucosal ulcerogenic responses induced by prokinetic drugs in rats under prostaglandin-deficient conditions. Takeuchi K, et al. **Dig Dis Sci** 1997 Feb; 42(2):251–8

Effects of medium-chain and long-chain triglycerides on antroduodenal motility and small bowel transit time in man. Verkijk M, et al. **Dig Dis Sci** 1997 Sep;42(9):1933–9

Effect of octreotide on human sphincter of Oddi motility following liver transplantation. Weber FH Jr, et al.
Dig Dis Sci 1997 Jun;42(6):1168–75

Effects of somatostatin analogues on human gastrointestinal motility. Camilleri M. **Digestion** 1996;57 Suppl 1:90–2 (10 ref.)

Management of gastrointestinal motility disorders. A practical guide to drug selection and appropriate ancillary measures. Malagelada JR, et al. **Drugs** 1996 Oct; 52(4):494–506 (96 ref.)

Gastrointestinal motility problems in patients with Parkinson's disease. Effects of antiparkinsonian treatment and guidelines for management. Jost WH. **Drugs Aging** 1997 Apr;10(4):249–58 (77 ref.)

The effects of slow infusion of a low dosage of endotoxin in healthy horses. Clark ES, et al. **Equine Vet J Suppl** 1989 Jun;(7):33–7

Antagonism of endotoxin-induced disruption of equine bowel motility by flunixin and phenylbutazone. King JN, et al. **Equine Vet J Suppl** 1989 Jun;(7):38–42

Effect of butorphanol on equine antroduodenal motility. Merritt AM, et al. **Equine Vet J Suppl** 1989 Jun;(7):21–3

Erythromycin and motilin as gastrointestinal prokinetic agents [editorial] Asai T. **Eur J Anaesthesiol** 1997 Jan; 14(1):3–6

Oxytocin-induced changes in single cell K+ currents and smooth muscle contraction of guinea-pig gastric antrum. Duridanova DB, et al. **Eur J Endocrinol** 1997 May; 136(5):531–8

Effect of a selective 5-HT3 receptor agonist on gastric motility in fasted and fed dogs. Nagakura Y, et al.
Eur J Pharmacol 1997 May 30;327(2–3):189–93

Octreotide acetate inhibits motility in the rabbit distal colon. John KD, et al. **Eur Surg Res** 1997;29(4):311–8

Cisapride prevents enteric bacterial overgrowth and translocation by improvement of intestinal motility in rats with acute liver failure. Wang XD, et al. **Eur Surg Res** 1996;28(6):402–12

5-Hydroxytryptamine induces forestomach hypomotility in sheep through 5-HT4 receptors. Plaza MA, et al.
Exp Physiol 1996 Sep;81(5):781–90

Involvement of a CCK-dependent capsaicin-sensitive afferent pathway in the inhibitory effect of pinaverium bromide on the colonic motor response to eating in rats. Fioramonti J, et al. **Fundam Clin Pharmacol** 1997; 11(3):231–6

A prospective, double-blind trial of L-hyoscyamine versus glucagon for the inhibition of small intestinal motility during ERCP. Lahoti S, et al. **Gastrointest Endosc** 1997 Aug;46(2):139–42

Does motilin stimulate the gastrointestinal motility of the pig? In vitro study using smooth muscle strips and dispersed muscle cells. Kitazawa T, et al. **Gen Pharmacol** 1996 Jun; 27(4):655–64

The effect of Mn2+, Zn2+, Ba2+ and Ca2+ on spontaneous motility in sheep duodenum in vitro. Murillo MD, et al. **Gen Pharmacol** 1997 Jan;28(1):65–71

Inhibition of acetylcholine induced intestinal motility by interleukin 1 beta in the rat. Aubé AC, et al. **Gut** 1996 Sep;39(3):470–4

Stimulation of beta-adrenoceptors with isoprenaline inhibits small intestinal activity fronts and induces a postprandial-like motility pattern in humans. Thollander M, et al. **Gut** 1997 Mar;40(3):376–80

The effects of the pharmacological manipulation of postoperative intestinal motility on colonic anastomoses. An experimental study in a rat model. García-Olmo D, et al. **Int J Colorectal Dis** 1997;12(2):73–7

Changes in gut neurotensin and modified colonic motility following whole-body irradiation in rat. Linard C, et al.
Int J Radiat Biol 1997 May;71(5):581–8

Effectiveness of aldose reductase inhibitors for diabetic gastroenteropathy with constipation. Nakamura T, et al.
Intern Med 1997 Jul;36(7):479–83

Glucagon facilitates end-to-end pancreaticojejunostomy. Jordan PH Jr, et al. **J Am Coll Surg** 1997 Apr;184(4):401–2

Bioactive metabolites of EM574 and EM523, erythromycin derivatives having strong gastrointestinal motor stimulating activity. Funabashi Y, et al. **J Antibiot (Tokyo)** 1996 Aug; 49(8):794–801

Microbial conversion of EM574 and EM523, gastrointestinal motor stimulating agents. Funabashi Y, et al.
J Antibiot (Tokyo) 1996 Aug;49(8):802–10

First pharmacokinetic-pharmacodynamic study in humans with a selective 5-hydroxytryptamine4 receptor agonist. Appel S, et al. **J Clin Pharmacol** 1997 Mar;37(3):229–37

Distribution of nitric oxide synthase in rat dorsal vagal

complex and effects of microinjection of nitric oxide compounds upon gastric motor function. Krowicki ZK, et al. **J Comp Neurol** 1997 Jan 6;377(1):49–69

Modulation of oscillator interactions in the crab stomatogastric ganglion by crustacean cardioactive peptide. Weimann JM, et al. **J Neurosci** 1997 Mar 1;17(5):1748–60

Erythromycin treatment for gastrointestinal dysmotility in preterm infants. Ng PC, et al. **J Paediatr Child Health** 1997 Apr;33(2):148–50

Antroduodenal motor effects of intravenous erythromycin in children with abnormalities of gastrointestinal motility. Cucchiara S, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr; 24(4):411–8

Gastroenteropancreatic effects of xenin in the dog. Feurle GE, et al. **J Pept Res** 1997 Apr;49(4):324–30

PAF and the digestive tract. A review. Izzo AA. **J Pharm Pharmacol** 1996 Nov;48(11):1103–11 (118 ref.)

Effects of 5-hydroxytryptamine agonists on myoelectric activity of the forestomach and antroduodenal area in sheep. Plaza MA, et al. **J Pharm Pharmacol** 1996 Dec; 48(12):1302–8

SDZ HTF 919 stimulates canine colonic motility and transit in vivo. Nguyen A, et al. **J Pharmacol Exp Ther** 1997 Mar; 280(3):1270–6

Effect of cisapride and renzapride on gastrointestinal motility and plasma motilin concentration in dogs. Song CW, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1312–6

Mechanisms of action of cholecystokinin in the canine gastrointestinal tract: role of vasoactive intestinal peptide and nitric oxide. Vergara P, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):306–16

Morphine tolerance and dependence in the rat intestine in vivo. Williams CL, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):656–63

Possible mechanisms underlying the suppression of gastric vagal afferents due to ecabapide (DQ–2511), a gastroprokinetic agent, in rats. Hatanaka S, et al. **Jpn J Pharmacol** 1997 May;74(1):105–8

Vagus–dependent and vagus–independent mechanisms of action of the erythromycin derivative EM574 and motilin in dogs. Inatomi N, et al. **Jpn J Pharmacol** 1996 May; 71(1):29–38

Gastroprokinetic effect of a new benzamide derivative itopride and its action mechanisms in conscious dogs. Iwanaga Y, et al. **Jpn J Pharmacol** 1996 Jun;71(2):129–37

The selective 5–hydroxytryptamine (5–HT)4–receptor agonist RS67506 enhances lower intestinal propulsion in mice. Nagakura Y, et al. **Jpn J Pharmacol** 1997 Jun; 74(2):209–12

Effects of gastroprokinetic agents on gastroparesis in streptozotocin–induced diabetic rats. Yamano M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):145–50

Comparative evaluation of DQ–2511, a novel gastroprokinetic agent, with cisapride in ameliorative action on experimentally induced delayed gastric emptying. Hatanaka S, et al. **Neurogastroenterol Motil** 1996 Sep; 8(3):227–33

Nitrergic inhibition of migrating myoelectric complex in the rat is mediated by vasoactive intestinal peptide. Hellström PM, et al. **Neurogastroenterol Motil** 1996 Dec;8(4):299–306

Contribution of acetylcholine, vasoactive intestinal polypeptide and nitric oxide to CNS–evoked vagal gastric relaxation in the rat. Krowicki ZK, et al. **Neurogastroenterol Motil** 1996 Dec;8(4):307–17

Gastric secretion but not nitric oxide is involved in pentagastrin–induced gastric relaxation in conscious dogs. Meulemans AL, et al. **Neurogastroenterol Motil** 1997 Mar; 9(1):49–54

Oral administration of KW–5092, a novel gastroprokinetic agent with acetylcholinesterase inhibitory and acetylcholine release enhancing activities, causes a dose–dependent increase in the blood acetylcholine content of beagle dogs. Yamada S, et al. **Neurosci Lett** 1997 Mar 28;225(1):25–8

CCK–58: a novel reagent for studying the regulation of cholecystokinin bioactivity. Raybould HE, et al. **Peptides** 1996;17(8):1307–11

Use of antagonists to define tachykininergic control of intestinal motility in pigs. Schmidt PT, et al. **Peptides** 1997; 18(3):373–9

Recent advances in the pharmacology of gastrointestinal prokinetics. Tonini M. **Pharmacol Res** 1996 Apr–May; 33(4–5):217–26 (126 ref.)

Insights into opioid action in the intestinal tract. De Luca A, et al. **Pharmacol Ther** 1996;69(2):103–15 (164 ref.)

Adrenergic mechanisms in the control of gastrointestinal motility: from basic science to clinical applications. De Ponti F, et al. **Pharmacol Ther** 1996;69(1):59–78 (378 ref.)

In vivo characterization of the colonic prokinetic effect of erythromycin in the rabbit. Costa A, et al. **Pharmacology** 1997 Feb;54(2):64–75

Nitric oxide–donating compounds and cyclic GMP depress the spontaneous contractile activity of the isolated rabbit jejunum. Izzo AA, et al. **Pharmacology** 1996 Aug; 53(2):109–13

Differential effects of subcutaneous GLP–1 on gastric emptying, antroduodenal motility, and pancreatic function in men. Schirra J, et al. **Proc Assoc Am Physicians** 1997 Jan;109(1):84–97

Nitric oxide is involved in the inhibitory action of cholecystokinin octapeptide (CCK–OP) on proximal colonic motility. Machino H, et al. **Regul Pept** 1997 Mar 12;69(1):47–52

Effect of L364718 on interdigestive pancreatic exocrine secretion and gastroduodenal motility in conscious sheep. Onaga T, et al. **Regul Pept** 1997 Jan 29;68(2):139–46

Excitatory effects of volatile fatty acids on the in vitro motility of the rumen of sheep. Kendall PE, et al. **Res Vet Sci** 1996 Jul;61(1):1–6

Effects of short–chain fatty acids on gastrointestinal motility. Cherbut C, et al. **Scand J Gastroenterol Suppl** 1997; 222:58–61 (24 ref.)

Stimulatory effect of FK506 and erythromycin on pig intestinal motility. Costa A, et al. **Transplant Proc** 1996 Oct;28(5):2571–2

Cyclosporine causes an increase of contractile activity in rat small bowel. Klaus A, et al. **Transplant Proc** 1997 May; 29(3):1801

Prolonged administration of cyclosporine A causes an increase in spontaneous contractile activity of the rat intestine. Pernthaler H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):695–6

Ileal inhibition and modulation of carbachol–stimulated proximal small intestinal motor functions in humans. Gröger G, et al. **Z Gastroenterol** 1996 Dec;34(12):791–4

Drugs coordinating and restoring gastrointestinal motility and their effect on selected hypodynamic gastrointestinal disorders in horses and cattle. Steiner A, et al. **Zentralbl Veterinarmed A** 1995 Dec;42(10):613–31 (126 ref.)

[Effect of shashen maidong decoction on gastric motility in vivo] Feng WH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):164–6 (Eng. Abstr.) **(Chi)**

[Pharmacologic and clinical differentiation of prokinetic drugs] May B, et al. **Leber Magen Darm** 1996 Jul; 26(4):193–8 (52 ref.) (Eng. Abstr.) **(Ger)**

[Motility of the gastric antrum and the gallbladder following oral administration of sulfate–bicarbonate] Grossi F, et al. **Clin Ter** 1996 Jun;147(6):321–6 (Eng. Abstr.) **(Ita)**

[Effect of KW5139 during early postoperative period after denervation] Nishikawa K, et al. **J Smooth Muscle Res** 1995 Dec;31(6):508–12 **(Jpn)**

[Effect of octreotide on gastric and duodenal motility] Okamoto E, et al. **J Smooth Muscle Res** 1995 Dec; 31(6):364–7 **(Jpn)**

[Mechanism of increased gastric motility effect of EM523] Shiba Y, et al. **J Smooth Muscle Res** 1995 Dec;31(6):492–5 **(Jpn)**

[Motilin–induced phase III contraction and the role of vagus nerve in gastric acidified dogs] Tohara K, et al. **J Smooth Muscle Res** 1995 Dec;31(6):503–6 **(Jpn)**

[Effect of peptide YY and the role of vagus nerve in gastric secretion and motility in conscious dogs] Zai H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):507–8 **(Jpn)**

[Influence of bile salts on the motor response of isolated ileum to acetylcholine, in rats] Duval–Araujo I, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):325–8 (Eng. Abstr.) **(Por)**

[Effects of casein on small intestine motility in patients with liver cirrhosis] Madrid AM, et al. **Rev Med Chil** 1996 Feb; 124(2):171–7 (Eng. Abstr.) **(Spa)**

GENETICS

[Oncogenes and motility—the c–kit tyrosine kinase receptor in intestinal Cajal cells] Katsoulis S, et al. **Z Gastroenterol** 1997 Jan;35(1):53–5 **(Ger)**

IMMUNOLOGY

Colonic and jejunal motor disturbances after colonic antigen challenge of sensitized rat. Oliver MR, et al. **Gastroenterology** 1997 Jun;112(6):1996–2005

[Phagocyte activation, infiltration of smooth intestinal muscle and modification of intestinal motility after surgical manipulation] Kalff JC, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:425–8 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Further classification of dysmotility–like dyspepsia by interdigestive gastroduodenal manometry and plasma motilin level. Kusano M, et al. **Am J Gastroenterol** 1997 Mar;92(3):481–4

Bacteriological method for detecting small intestinal hypomotility. Riordan SM, et al. **Am J Gastroenterol** 1996 Nov;91(11):2399–405

Simplifying the evaluation of postprandial antral motor function in patients with suspected gastroparesis. Thumshirn M, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1496–500

Effects of small intestinal nutrient infusion on appetite and pyloric motility are modified by age. Cook CG, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R755–61

Role of endogenous 5–hydroxytryptamine in the regulation of gastric contractions by motilin in dogs. Haga N, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G20–8

Spontaneous activity of guinea pig ileum longitudinal muscle regulated by Ca(2+)–activated K+ channel. Hong SJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G962–71

Inhibition of nitric oxide synthase in the brain suppresses colonic motor activity. Ohta D, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G717–24

Rhythmic oscillating complexes in gastrointestinal tract of chickens: a role for motilin. Rodríguez–Sinovas A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G916–22

Intracisternal antisense oligonucleotides to TRH receptor abolish TRH–evoked gastric motor excitation. Sivarao DV, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1372–81

The hypertensive lower esophageal sphincter [letter; comment] Maher JW. **Am J Surg** 1997 May;173(5):454–5 . Comment on: Am J Surg 1996 Nov;172(5):439–42; discussion 442–3.

Computer model of gastric electrical stimulation. Mintchev M, et al. **Ann Biomed Eng** 1997 Jul–Aug;25(4):726–30

Role of PACAP in the regulation of gastrointestinal motility. Katsoulis S, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:364–78 (35 ref.)

A smooth muscle nodule producing 10–12 cycle/min regular contractions at the mesenteric border of the pacemaker area in the guinea–pig colon. Kobayashi S, et al. **Arch Histol Cytol** 1996 May;59(2):159–68

Electrical activity recorded from abdominal surface before and after gastric surgery in man. Riezzo G, et al. **Arch Physiol Biochem** 1996;104(1):50–6

Recovery of gastrointestinal tract motility and myoelectric activity change after abdominal surgery. Hotokezaka M, et al. **Arch Surg** 1997 Apr;132(4):410–7

Modulation by nitric oxide of spontaneous motility of the rat isolated duodenum: role of tachykinins. Martínez–Cuesta MA, et al. **Br J Pharmacol** 1996 Jul; 118(6):1335–40

Effect of different infusion regimens on colonic motility and efficacy of colostomy irrigation. Gattuso JM, et al. **Br J Surg** 1996 Oct;83(10):1459–62

Role of the interstitial cells of Cajal in the control of gut motility. Hagger R, et al. **Br J Surg** 1997 Apr;84(4):445–50 (61 ref.)

Endotoxin–induced enteric hypomotility in jaundiced loops in vitro. Duval–Araujo I, et al. **Braz J Med Biol Res** 1996 Aug;29(8):995–9

Altered intestinal transit is independent of gastroparesis in the early diabetic rats. Chang FY, et al. **Chin J Physiol** 1997;40(1):31–5

Myoelectric activity of the cecum in fed and fasted domestic fowl (Gallus sp.). Clench MH, et al. **Comp Biochem Physiol A Physiol** 1996 Nov;115(3):253–7

Effects of oral erythromycin on fasting and postprandial antroduodenal motility in patients with type I diabetes, measured with an ambulatory manometric technique. Samsom M, et al. **Diabetes Care** 1997 Feb;20(2):129–34

The effect of acute hyperglycaemia on small intestinal motility in normal subjects. Russo A, et al. **Diabetologia** 1996 Aug;39(8):984–9

Intestinal motility during hypoxia and reoxygenation in vitro. Bielefeldt K, et al. **Dig Dis Sci** 1997 May;42(5):878–84

Small bowel dysmotility in patients with postcholecystectomy sphincter of Oddi dysfunction. Evans PR, et al. **Dig Dis Sci** 1997 Jul;42(7):1507–12

Change in colonic motility after extrinsic autonomic denervation in dogs. Ishikawa M, et al. **Dig Dis Sci** 1997 Sep;42(9):1950–6

What can be measured from surface electrogastrography. Computer simulations. Liang J, et al. **Dig Dis Sci** 1997 Jul; 42(7):1331–43

Impaired gastric myoelectrical activity in patients with chronic renal failure. Lin X, et al. **Dig Dis Sci** 1997 May; 42(5):898–906

Tachykinins influence interdigestive rhythm and contractile strength of human small intestine. Lördal M, et al. **Dig Dis Sci** 1997 Sep;42(9):1940–9

Role of central interleukin–1 beta in gastrointestinal motor disturbances induced by lipopolysaccharide in sheep. Plaza MA, et al. **Dig Dis Sci** 1997 Feb;42(2):242–50

Small bowel manometry: short or long recording sessions? Soffer EE, et al. **Dig Dis Sci** 1997 May;42(5):873–7

Analysis of fasting antroduodenal manometry in children. Tomomasa T, et al. **Dig Dis Sci** 1996 Nov;41(11):2195–203

Regulation of interdigestive gastrointestinal motility and secretion. DiMagno EP. **Digestion** 1997;58 Suppl 1:53–5 (16 ref.)

Proximal gastric motility functions are normal in severe obesity. Klatt S, et al. **Digestion** 1997;58(2):115–9

Motility in irritable–bowel syndrome. Müller–Lissner S, et al. **Digestion** 1997;58(2):196–202

Observations on the colic motor complex in a pony with a small intestinal obstruction. King JN, et al. **Equine Vet J Suppl** 1989 Jun;(7):43–5

Intestinal phase of human antro–pyloro–duodenal motility: cholinergic and CCK–mediated regulation. Katschinski M, et al. **Eur J Clin Invest** 1996 Jul;26(7):574–83

Disturbances in the propagation of the slow wave during acute local ischaemia in the feline small intestine. Lammers WJ, et al. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):381–8

The intestinal effects of bran–like plastic particles: is the concept of 'roughage' valid after all? Lewis SJ, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):553–7

Gastrointestinal motor activity in conscious ferrets. Nagakura Y, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):53–7

Enteric neuropathology: recent advances and implications for clinical practice. Quigley EM. **Gastroenterologist** 1997 Sep;5(3):233–41 (128 ref.)

The metamorphosis of motility: from squiggles to neuroscience [editorial] Camilleri M. **Gastroenterology** 1997 Jun;112(6):1785

Proximal colonic motility [letter; comment] Cole SJ, et al.

GASTROINTESTINAL MOTILITY

Gut 1996 Aug;39(2):342. Comment on: Gut 1995 Nov;37(5):649–53.

Variability of gastrointestinal transit in healthy women and men. Degen LP, et al. **Gut** 1996 Aug;39(2):299–305

Increasing butyrate concentration in the distal colon by accelerating intestinal transit. Lewis SJ, et al. **Gut** 1997 Aug;41(2):245–51

Relations between transit time, fermentation products, and hydrogen consuming flora in healthy humans. El Oufir L, et al. **Gut** 1996 Jun;38(6):870–7

Effect of intestinal resection on human small bowel motility. Schmidt T, et al. **Gut** 1996 Jun;38(6):859–63

Daytime and night time motor activity of the small bowel after solid meals of different caloric value in humans. Schönfeld J, et al. **Gut** 1997 May;40(5):614–8

Influence of alcohol on gastrointestinal motility: lactulose breath hydrogen testing in orocecal transit time in chronic alcoholics, social drinkers and teetotaler subjects. Addolorato G, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1076–81

A hitherto unknown pattern of pathologic gastrointestinal motility—a cause of repeated vomiting? Steinbrueckner BE, et al. **Hepatogastroenterology** 1996 May–Jun; 43(9):764–8

Pharmacologic characterization of muscarine receptor subtypes in rat gastric fundus mediating contractile responses. Milovanović DR, et al. **Indian J Med Res** 1997 May;105:239–45

Wheat middlings in high-concentrate diets: feedlot performance, carcass characteristics, nutrient digestibilities, passage rates, and ruminal metabolism in finishing steers. Dalke BS, et al. **J Anim Sci** 1997 Sep;75(9):2561–6

Isopower mapping of the electrogastrogram (EGG). Homma S. **J Auton Nerv Syst** 1997 Feb 17;62(3):163–6

Distribution of several gut neuropeptides and their effects on motor activity in muscularis mucosae of guinea-pig proximal colon. Ishikawa K, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):91–100

The mammalian sympathetic prevertebral ganglia: integrative properties and role in the nervous control of digestive tract motility. Miolan JP, et al. **J Auton Nerv Syst** 1996 May 6;58(3):125–38 (78 ref.)

Stimulatory role of the dorsal motor nucleus of the vagus in gastrointestinal motility through myoelectromechanical coordination in cats. Yoon SH, et al.
J Auton Nerv Syst 1996 Feb 5;57(1–2):22–8

Role of peptide YY in regulation of duodenal motility during the interdigestive period in sheep. Onaga T, et al.
J Comp Physiol [B] 1997 Jul;167(5):352–60

The pyloric pattern of the lobster (Panulirus interruptus) stomatogastric ganglion comprises two phase-maintaining subsets. Hooper SL. **J Comput Neurosci** 1997 Jul; 4(3):207–19

Opioid-mediated responses of dietary protein on reticular motility and plasma insulin. Froetschel MA, et al.
J Dairy Sci 1997 Mar;80(3):511–8

Duration-dependent changes in calcium responsiveness in the alloxan-diabetic rat intestine. Oztürk Y, et al.
J Diabetes Complications 1996 Sep–Oct;10(5):288–93

An assembled electrogastrographic device to examine the meal effect on gastric slow wave. Chang FY, et al.
J Gastroenterol Hepatol 1996 May;11(5):506–10

Lubrication of visceral movement and gastric motility by peritoneal surfactant. Hills BA. **J Gastroenterol Hepatol** 1996 Sep;11(9):797–803

Enhanced motility of the vagotomized canine stomach by electrical stimulation. Yokota M, et al.
J Gastroenterol Hepatol 1997 Apr;12(4):338–46

Gallbladder motility and cholecystokinin secretion in chronic pancreatitis: relationship with exocrine pancreatic function. Gielkens HA, et al. **J Hepatol** 1997 Aug;27(2):306–12

Neuro-enteric mechanisms of gastrointestinal motor function. Corazziari E. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S3–4

Gastrointestinal myoelectric activity in a child with gastroschisis and ileal atresia. Cheng G, et al.
J Pediatr Surg 1997 Jun;32(6):923–7

Intestinal pacemaker C-KIT+ cells and synapses in allied Hirschsprung's disorders. Yamataka A, et al.
J Pediatr Surg 1997 Jul;32(7):1069–74

Celiprolol double-peak occurrence and gastric motility: nonlinear mixed effects modeling of bioavailability data obtained in dogs. Lipka E, et al.
J Pharmacokinet Biopharm 1995 Jun;23(3):267–86

Central injection of a new corticotropin-releasing factor (CRF) antagonist, astressin, blocks CRF- and stress-related alterations of gastric and colonic motor function. Martínez V, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):754–60

Excitatory and inhibitory motor reflexes in the isolated guinea-pig stomach. Hennig GW, et al.
J Physiol (Lond) 1997 May 15;501 (Pt 1):197–212

Functional intestinal hypomotility in association with neuronal damage in a dog. Aroch I, et al.
J Small Anim Pract 1997 Mar;38(3):119–23

Two types of stretch-activated channel activities in guinea-pig gastric smooth muscle cells. Yamamoto Y, et al. **Jpn J Physiol** 1996 Aug;46(4):337–45

Effect of different calcium channel blockers on inhibitory junction potentials and slow waves in porcine ileum. Borderies JR, et al. **Life Sci** 1997;60(12):883–92

Isolated human colon strips as a pharmacological tool. Martínez-Abad M, et al.
Methods Find Exp Clin Pharmacol 1996 Jun;18(5):327–33

Biliary tract dysmotility and sphincter of Oddi dyskinesia. van Berge-Henegouwen GP, et al. **Neth J Med** 1997 Apr; 50(4):174–9 (32 ref.)

Evaluation of gastric antral motor performance in patients with dysmotility-like dyspepsia using real-time high-resolution ultrasound. Ahluwalia NK, et al.
Neurogastroenterol Motil 1996 Dec;8(4):333–8

Gastric tone and the barostat: comprehend and compromise [editorial] Azpiroz F. **Neurogastroenterol Motil** 1997 Mar; 9(1):5

PYY and NPY: control of gastric motility via action on Y1 and Y2 receptors in the DVC. Chen CH, et al.
Neurogastroenterol Motil 1997 Jun;9(2):109–16

Effect of nitric oxide on propagated clusters of spontaneous motor waves in an ex vivo rabbit intestinal preparation. Grossi L, et al. **Neurogastroenterol Motil** 1996 Sep; 8(3):201–5

Little brain—big brain. IV: Munich, 30 October to 3 November 1995. Grundy D, et al.
Neurogastroenterol Motil 1996 Jun;8(2):153–5

Ambulatory long-term jejunal manometry in diabetic patients with cardiac autonomic neuropathy. Hackelsberger N, et al. **Neurogastroenterol Motil** 1997 Jun;9(2):77–83

Communication between CNS and ENS: do regulatory peptides play a role in control of sleep modulation of gastrointestinal motility? [editorial] Husebye E.
Neurogastroenterol Motil 1997 Mar;9(1):1–3

Gastric emptying patterns of a liquid meal in newborn infants measured by epigastric impedance. Lange A, et al.
Neurogastroenterol Motil 1997 Jun;9(2):55–62

Quantification of the oesophageal peristaltic reflex in man. Penagini R, et al. **Neurogastroenterol Motil** 1996 Jun; 8(2):89–94

Role of altered responsiveness of hypertrophic smooth muscle in manometric abnormalities of the obstructed opossum oesophagus. Shirazi S, et al.
Neurogastroenterol Motil 1996 Jun;8(2):111–9

Lower postprandial gastric volume response in diabetic patients with vagal neuropathy. Undeland KA, et al.
Neurogastroenterol Motil 1997 Mar;9(1):19–24

Peripheral neurotensin participates in the modulation of pre- and postprandial intestinal motility in rats. Pellissier S, et al. **Neuropeptides** 1996 Oct;30(5):412–9

Electrogastrography after operative repair of esophageal atresia. Yagi M, et al. **Pediatr Surg Int** 1997 Jul; 12(5–6):340–3

Peripheral effects of opioids in a model of intestinal inflammation in mice. Pol O, et al. **Pharmacology** 1996 Dec; 53(6):340–50

Effects of intermittent tail shock or water avoidance on proximal colonic motor contractility in rats. Morrow NS, et al. **Physiol Behav** 1997 Aug;62(2):233–9

Effects of cecal ligation and colostomy on motility of the rectum, ileum, and cecum in turkeys. Karasawa Y, et al.
Poult Sci 1995 Dec;74(12):2029–34

Basic mechanical rhythm in the rat small intestine. Stanciu C. **Rom J Physiol** 1995 Jan–Dec;32(1–4):59–64

Frequency gradients of the basic electrical and mechanical rhythms along the rat intestine. Stanciu C.
Rom J Physiol 1995 Jan–Dec;32(1–4):65–9

The effect of amniotic fluid suctioning during caesarean section on intestinal motility [letter] Özel A.
S Afr Med J 1997 Feb;87(2 Suppl):231–2

Gastric accommodation in functional dyspepsia. Berstad A, et al. **Scand J Gastroenterol** 1997 Mar;32(3):193–7 (57 ref.)

The neuroendocrine system and gastrointestinal complications in patients with familial amyloidosis and polyneuropathy. el-Salhy M, et al.
Scand J Gastroenterol 1997 Sep;32(9):849–54 (55 ref.)

Ambulatory 24-hour jejunal motility in diarrhea-predominant irritable bowel syndrome. Schmidt T, et al. **Scand J Gastroenterol** 1996 Jun;31(6):581–9

Interdigestive and postprandial motility in small-intestinal bacterial overgrowth. Stotzer PO, et al.
Scand J Gastroenterol 1996 Sep;31(9):875–80

Antroduodenal manometry in children with no upper gastrointestinal symptoms. Uc A, et al.
Scand J Gastroenterol 1997 Jul;32(7):681–5

Gastrointestinal dysfunction in neurologic disease. Camilleri M, et al. **Semin Neurol** 1996 Sep;16(3):203–16 (67 ref.)

Gastrointestinal dysfunction in autonomic neuropathy. Chelimsky G, et al. **Semin Neurol** 1996 Sep;16(3):259–68 (85 ref.)

Brain-gut interaction. Gué M, et al. **Semin Neurol** 1996 Sep; 16(3):235–43 (83 ref.)

Gastrointestinal dysfunction in multiple system atrophy. Mathias CJ. **Semin Neurol** 1996 Sep;16(3):251–8 (44 ref.)

Disrupted bile flow affects interdigestive small bowel motility in rats. Nieuwenhuijs VB, et al. **Surgery** 1997 Sep; 122(3):600–8

Endotoxaemia in dairy cattle: mechanism of reticulorumen stasis. Eades SC. **Vet J** 1997 May;153(3):321–7

[Simultaneous long-term measurement of duodenogastric reflux and gastroduodenal motility] Thomas H, et al.
Chirurg 1997 Jun;68(6):618–23 (Eng. Abstr.) **(Ger)**

[Shorter postoperative atony after laparoscopic colon resection? Comparative animal experiment study] Tittel A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:237–9 (Eng. Abstr.) **(Ger)**

[Experimental functional studies of the motility of the ileal pouch] Willis S, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:429–34 (Eng. Abstr.) **(Ger)**

[The sono-capsule: a new method for measuring gastrointestinal motility] Amend M, et al.
Ultraschall Med 1996 Dec;17(6):274–6 (Eng. Abstr.) **(Ger)**

[Esophagus and anorectal motility in patients with dysfunction of Oddi's sphincter] Wehrmann T, et al.
Z Gastroenterol 1996 Aug;34(8):483–9 (Eng. Abstr.) **(Ger)**

[The afferent link in the system of the bulbar regulation of gastric motor function] Bagaev VA, et al.
Fiziol Zh Im I M Sechenova 1996 May–Jun;82(5–6):121–31 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

The effects of gamma-radiation on intestinal motor activity and faecal pellet expulsion in the guinea pig. Krantis A, et al. **Dig Dis Sci** 1996 Dec;41(12):2307–16

GASTROINTESTINAL NEOPLASMS

Neuroendocrine gastrointestinal tumours. Oberg K.
Ann Oncol 1996 Jul;7(5):453–63 (119 ref.)

Gut lymphomas. Zucca E, et al. **Baillieres Clin Haematol** 1996 Dec;9(4):727–41 (83 ref.)

Gastrointestinal tract. **Curr Opin Oncol** 1996 Jul;8(4):B120–40

Recent advances in diagnosis and therapy of neuroendocrine tumors of the gastrointestinal tract. Pelley RJ, et al.
Curr Opin Oncol 1997 Jan;9(1):68–74 (74 ref.)

Gastrointestinal carcinoid tumors: current management strategies. Memon MA, et al. **Dis Colon Rectum** 1997 Sep; 40(9):1101–18 (180 ref.)

Primary gastrointestinal lymphoma—disease spectrum and management: a 15-year review from north India. Singh DP, et al. **Indian J Gastroenterol** 1997 Jul;16(3):88–90

Differential dose delivery using a nondocking applicator for intraoperative radiation therapy. Huq MS, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 15;37(2):429–33

[Malignant histiocytofibroma of the bladder. A case report] Barriol D, et al. **Prog Urol** 1997 Apr;7(2):270–2 (9 ref.) (Eng. Abstr.) **(Fre)**

[Carcinoids of the gastrointestinal tract] von Bubnoff AC, et al. **Dtsch Med Wochenschr** 1997 Jul 11;122(28–29):901–7 (67 ref.) **(Ger)**

BLOOD

Cancer cachexia and depressive states: a neuro-endocrine-immunological disease? Iwagaki H, et al.
Acta Med Okayama 1997 Aug;51(4):233–6

Neural cell adhesion molecule (N-CAM) in gastrointestinal neoplasias. Fogar P, et al. **Anticancer Res** 1997 Mar–Apr; 17(2B):1227–30

Serum carcinoembryonic antigen concentration doubling time correlates with tumor biology and life expectancy in patients with recurrent gastrointestinal carcinoma. Korenaga D, et al. **Arch Surg** 1997 Feb;132(2):188–94

Measurement of glutathione S-transferase P1-1 in plasma: pitfalls and significance of screening and follow-up of patients with gastrointestinal carcinoma. Mulder TP, et al.
Cancer 1997 Sep 1;80(5):873–80

Analysis of the N-glycosylation of the serum glycoproteins defined by Con A, PHA-E, RCA1 and WGA in Chinese patients with gastrointestinal diseases. Zhang J, et al.
Chin Med Sci J 1996 Mar;11(1):36–40

The prognostic importance of tumor markers in adenocarcinomas of the gastrointestinal tract. Grem J.
Curr Opin Oncol 1997 Jul;9(4):380–7 (38 ref.)

Molecular detection of circulating solid carcinoma cells in the peripheral blood: the concept of early systemic disease. Mori M, et al. **Int J Cancer** 1996 Dec 11;68(6):739–43

Fluctuation of endogenous TNF alpha concentration in plasma in advanced cancer patients. Muc-Wierzgoń M, et al. **J Biol Regul Homeost Agents** 1996 Jan–Mar;10(1):25–6

BLOOD SUPPLY

Prognostic value of angiogenesis in gastro-intestinal tumours. Chung YS, et al. **Eur J Cancer** 1996 Dec;32A(14):2501–5 (37 ref.)

CHEMICALLY INDUCED

Nitrosamines, alcohol, and gastrointestinal tract cancer: recent epidemiology and experimentation. Chhabra SK, et al. **In Vivo** 1996 May–Jun;10(3):265–84 (221 ref.)

Re: second cancers after adjuvant tamoxifen therapy for breast cancer [letter; comment] Atkins CD.
J Natl Cancer Inst 1996 Oct 16;88(20):1496–7; discussion, 1497–9. Comment on: J Natl Cancer Inst 1996 Jun 19;88(12):832–4.

Re: second cancers after adjuvant tamoxifen therapy for breast cancer [letter; comment] Rutqvist LE.
J Natl Cancer Inst 1996 Oct 16;88(20):1497–9; discussion, 1497–9. Comment on: J Natl Cancer Inst 1996 Jun 19;88(12):832–4.

CHEMISTRY

Gastrointestinal autonomic nerve tumor: further observations regarding an ultrastructural and immunohistochemical analysis of six cases. Ojanguren I, et al. **Hum Pathol** 1996 Dec;27(12):1311–8

p53 protein expression in gastrointestinal lymphomas. Hazar B, et al. **Oncology** 1997 Jan–Feb;54(1):84–7

Immunohistochemical study of secretogranin II in 62 neuroendocrine tumours of the digestive tract and of the pancreas in comparison with other granins. Le Gall F, et al. **Pathol Res Pract** 1997;193(3):179–85

CLASSIFICATION

Gastrointestinal carcinoids—aspects of diagnosis and classification. Nilsson O. **APMIS** 1996 Jul–Aug; 104(7–8):481–92 (53 ref.)

Subclassification of gastrointestinal stromal tumors based on evaluation by electron microscopy and immunohistochemistry [see comments] Erlandson RA, et al. **Ultrastruct Pathol** 1996 Jul–Aug;20(4):373–93. Comment in: Ultrastruct Pathol 1997 May–Jun;21(3):311–3.

[Carcinoid tumor—a questionable entity? (editorial)] Arnold R. **Chirurg** 1997 Feb;68(2):132–5 **(Ger)**

[Classification of neuroendocrine tumors of the gastrointestinal tract and pancreas and its therapeutic relevance] Höfler H, et al. **Chirurg** 1997 Feb;68(2):107–15 (46 ref.) (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Transient acantholytic dermatosis (Grover's disease) in a patient with gastric carcinoma [letter; comment] De Argila D, et al. **Acta Derm Venereol** 1997 May;77(3):245–6. Comment on: Acta Derm Venereol 1995 Sep;75(5):410.

How long does it take to operate? The implications for in patient malnutrition. Silk DB. **Acta Gastroenterol Latinoam** 1996;26(2):101–4

Neurological cases for MRCP: I. Manji H. **Br J Hosp Med** 1997 May 21–Jun 3;57(10):500–1

Perforation of the jejunum secondary to AIDS-related gastrointestinal Kaposi's sarcoma. Yoshida EM, et al. **Can J Gastroenterol** 1997 Jan–Feb;11(1):38–40 (15 ref.)

Adult T-cell leukemia with multiple lymphomatous polyposis of the gastrointestinal tract. Itsuno M, et al. **Endoscopy** 1995 Nov;27(9):700–3 (24 ref.)

Cataract formation in the Cronkhite–Canada syndrome. Simcock PR, et al. **J Cataract Refract Surg** 1996 Oct; 22(8):1125–6

Covered gianturco stents for malignant biliary obstruction: preliminary clinical evaluation. Miyayama S, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):641–8

Carcinoid tumors and sarcoidosis—does a link exist? Levy NT, et al. **Mayo Clin Proc** 1997 Feb;72(2):112–6

The sign of Leser–Trélat [clinical conference] Hardy RD, et al. **Med Pediatr Oncol** 1997 Mar;28(3):234–7

Response of severely malnourished patients to preoperative parenteral nutrition: a randomized clinical trial of water and sodium restriction [see comments] Gil MJ, et al. **Nutrition** 1997 Jan;13(1):26–31. Comment in: Nutrition 1997 Jan;13(1):54–5.

Transdermal fentanyl in the long-term treatment of cancer pain: a prospective study of 50 patients with advanced cancer of the gastrointestinal tract or the head and neck region. Grond S, et al. **Pain** 1997 Jan;69(1–2):191–8

The safety of helium for abdominal insufflation. Fleming RY, et al. **Surg Endosc** 1997 Mar;11(3):230–4

[Percutaneous nephrostomy in malignant ureteral obstruction (see comments)] Demetriou D, et al. **Dtsch Med Wochenschr** 1996 Dec 6;121(49):1526–30 (Eng. Abstr.). Comment in: Dtsch Med Wochenschr 1997 Mar 21;122(12):385. **(Ger)**

[Aorto–iliac aneurysms and associated gastrointestinal neoplasms. Treatment problems] Cina G, et al. **Ann Ital Chir** 1996 Jul–Aug;67(4):507–13; discussion 513–4 (Eng. Abstr.) **(Ita)**

[The diagnosis and clinical assessment of the disseminated intravascular coagulation syndrome in complicated cancer of the gastrointestinal tract] Alipov VV, et al. **Vestn Khir Im I I Grek** 1996;155(5):25–9 (Eng. Abstr.) **(Rus)**

[Syndrome of multiple neoplasia type IIB (MEN IIB): a case report] Alpera Lacruz R, et al. **An Esp Pediatr** 1996 Oct; 45(4):421–4 **(Spa)**

DIAGNOSIS

Endoscopic techniques in the diagnosis of upper gastrointestinal tract malignancies. A comparison. Malhotra V, et al. **Acta Cytol** 1996 Sep–Oct;40(5):929–32

Gastrointestinal carcinoids—aspects of diagnosis and classification. Nilsson O. **APMIS** 1996 Jul–Aug; 104(7–8):481–92 (53 ref.)

Carcinoid tumours. Tiensuu Janson EM, et al. **Baillieres Clin Gastroenterol** 1996 Dec;10(4):589–601 (40 ref.)

Port-site metastases following diagnostic laparoscopy. Nieveen van Dijkum EJ, et al. **Br J Surg** 1996 Dec; 83(12):1793–4

Neuroendocrine tumors: common presentations of uncommon diseases. Kirkwood KS, et al. **Compr Ther** 1995 Dec;21(12):719–25

The prognostic importance of tumor markers in adenocarcinomas of the gastrointestinal tract. Grem J. **Curr Opin Oncol** 1997 Jul;9(4):380–7 (38 ref.)

Endoscopic magnetic resonance imaging of the upper gastrointestinal tract [letter; comment] deSouza NM, et al. **Endoscopy** 1996 Aug;28(6):521–2. Comment on: Endoscopy 1995 Sep;27(7):480–5.

Absence of Epstein–Barr virus (EBV) in a gastrointestinal stromal cell tumour (GIST) in an adult human immunodeficiency virus–seropositive patient with past EBV infection. Kubben FJ, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):721–4

Endoscopic MRI: preliminary results of a new technique for visualization and staging of gastrointestinal tumours. Minoli G. **Gastrointest Endosc** 1996 Nov;44(5):639–40

Prognostic significance of DNA ploidy and proliferative index (MIB-1 index) in gastrointestinal stromal tumors. Carrillo R, et al. **Hum Pathol** 1997 Feb;28(2):160–5

A correlative study of histology and imprint cytology in the diagnosis of gastrointestinal tract malignancies. Sharma P, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):139–46

Pincer nails and alopecia as markers of gastrointestinal malignancy. Jemec GB, et al. **J Dermatol** 1997 Jul; 24(7):479–81

Use of calcium provocative test in the diagnosis of gastroenteropancreatic endocrine tumors. Vezzadini C, et al. **Panminerva Med** 1996 Dec;38(4):255–8 (14 ref.)

Somatostatin receptor scintigraphy in the diagnosis of neuroendocrine gastroenteropancreatic tumors. Bäder M, et al. **Recent Results Cancer Res** 1996;142:137–62 (66 ref.)

Laparoscopic ultrasonography for staging of gastrointestinal malignancy. Gouma DJ, et al. **Scand J Gastroenterol Suppl** 1996;218:43–9 (19 ref.)

Gastrointestinal lymphomas: an overview with emphasis on new findings and diagnostic problems. Chan JK. **Semin Diagn Pathol** 1996 Nov;13(4):260–96 (154 ref.)

Gastrointestinal stromal tumors. Suster S. **Semin Diagn Pathol** 1996 Nov;13(4):297–313 (65 ref.)

Unusual peptide-secreting tumors in adolescents and children. Schwartz MZ. **Semin Pediatr Surg** 1997 Aug; 6(3):141–6 (19 ref.)

Gastrointestinal leiomyomas in a developing country. Dasarathy S, et al. **Trop Gastroenterol** 1995 Oct–Dec; 16(4):43–6

Dual differentiation in gastrointestinal stromal tumors [letter; comment] González-Cámpora R, et al. **Ultrastruct Pathol** 1997 May–Jun;21(3):311–3. Comment on: Ultrastruct Pathol 1996 Jul–Aug;20(4):373–93.

Carcinoid tumors: imaging procedures and interventional radiology. Wallace S, et al. **World J Surg** 1996 Feb; 20(2):147–56 (73 ref.)

Gastrointestinal lymphomas in patients with AIDS. Powitz F, et al. **Z Gastroenterol** 1997 Mar;35(3):179–85

[Laparoscopy and laparoscopic echography in the diagnosis and staging of gastrointestinal carcinomas] Krüstev N, et al. **Khirurgiia (Sofiia)** 1996;49(2):39–42 (Eng. Abstr.) **(Bul)**

[Pre-therapeutic evaluation of upper gastrointestinal cancer (editorial)] Hovendal CP, et al. **Ugeskr Laeger** 1997 Feb 3;159(6):720 **(Dan)**

[Pre-therapeutic assessment of resectability in patients with upper gastrointestinal cancer. Combined use of endoscopic ultrasonography and laparoscopy] Mortensen MB, et al. **Ugeskr Laeger** 1997 Feb 3;159(6):740–2 (Eng. Abstr.) **(Dan)**

[Endoscopy, ultrasound and roentgen as a rational complementary system. Exemplified by diseases of the upper gastrointestinal tract] Keim V, et al. **Internist (Berl)** 1996 Aug;37(8):785–92 (50 ref.) **(Ger)**

[1996 literature review: imaging the intestines] Aschoff AJ, et al. **Rontgenpraxis** 1997 Feb;50(2):37–40 (20 ref.) **(Ger)**

[Aspiration cytology in gastroenterologic endoscopy] Bene L, et al. **Orv Hetil** 1997 Feb 2;138(5):277–9 (Eng. Abstr.) **(Hun)**

[Determination of cellular DNA content in the diagnosis and prognosis of mesenchymal tumors] Tóth E, et al. **Orv Hetil** 1996 Nov 10;137(45):2511–5 (27 ref.) (Eng. Abstr.) **(Hun)**

[Aspiration cytology in the diagnosis of gastrointestinal tumors] Vámosi-Nagy I, et al. **Orv Hetil** 1996 Nov 3; 137(44):2455–7 (Eng. Abstr.) **(Hun)**

[Primary gastrointestinal localization of N-H lymphoma: authors' experience] Versaci A, et al. **G Chir** 1997 Jun–Jul; 18(6–7):340–3 (40 ref.) (Eng. Abstr.) **(Ita)**

[Helicobacter pylori, chronic gastritis and precancerous gastric manifestations] Testino G, et al. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):145–51 (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Cytologic assessment before and after intraperitoneal hyperthermic chemotherapy for peritoneal carcinomatosis. Loggie BW, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1154–8

Helicobacter pylori eradication for the treatment of low-grade gastric MALT lymphoma: follow-up together with sequential molecular studies. Montalban C, et al. **Ann Oncol** 1997;8 Suppl 2:37–9

Infusional 5-fluorouracil in the treatment of gastrointestinal cancers: the Royal Marsden Hospital experience. Ross PJ, et al. **Ann Oncol** 1997 Feb;8(2):111–5 (24 ref.)

A phase II study of oral fluorouracil for gastrointestinal cancer. Cartei F, et al. **Anticancer Drugs** 1996 Jan; 7(1):48–53

Effect of combination therapy with UFT plus cisplatin (UFTP) on the survival of mice in the experimental model for wide-spread metastasis in the peritoneal cavity of gastrointestinal cancer using colon 26 PMF-15 cells. Kurihara M, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2217–20

A pilot study of megestrol acetate and ibuprofen in the treatment of cachexia in gastrointestinal cancer patients. McMillan DC, et al. **Br J Cancer** 1997;76(6):788–90

A phase I/II study of leucovorin, carboplatin and 5-fluorouracil (LCF) in patients with carcinoma of unknown primary site or advanced oesophagogastric/pancreatic adenocarcinomas. Rigg A, et al. **Br J Cancer** 1997;75(1):101–5

New systemic drugs in the treatment of gastrointestinal cancer. Ogawa M. **Curr Opin Oncol** 1996 Jul;8(4):317–20 (21 ref.)

The role of surgery in patients with advanced midgut carcinoid tumours. Ahlman H. **Digestion** 1996;57 Suppl 1:86–7

The usefulness of the ATP assay with serum-free culture for chemosensitivity testing of gastrointestinal cancer. Kawamura H, et al. **Eur J Cancer** 1997 May;33(6):960–6

A prospective analysis of 949 long-term central venous access catheters for ambulatory chemotherapy in patients with gastrointestinal malignancy. Nightingale CE, et al. **Eur J Cancer** 1997 Mar;33(3):398–403

Infusional 5-fluorouracil in the treatment of gastrointestinal cancers: The Royal Marsden Hospital experience. Ross PJ, et al. **J Infus Chemother** 1996 Summer;6(3):141–4 (19 ref.)

Advantage of surgery and adjuvant chemotherapy in the treatment of primary gastrointestinal lymphoma. Lin KM, et al. **J Surg Oncol** 1997 Mar;64(3):237–41

Tamoxifen circumvents the multidrug resistance in fresh human gastrointestinal cancer cells. Hotta T, et al. **J Surg Res** 1996 Nov;66(1):31–5

Side effects and photosensitization of human tissues after aminolevulinic acid. Webber J, et al. **J Surg Res** 1997 Feb 15;68(1):31–7

Modulation of multidrug resistance by cepharanthine in fresh human gastrointestinal tumor cells. Hotta T, et al. **Oncology** 1997 Mar–Apr;54(2):153–7

Phase II data on paclitaxel and docetaxel in gastrointestinal malignancies. Aapro MS. **Recent Results Cancer Res** 1996; 142:425–30

Molecular mechanisms and possibilities of overcoming drug resistance in gastrointestinal tumors. Dietel M. **Recent Results Cancer Res** 1996;142:89–101 (51 ref.)

Drug therapy in metastatic neuroendocrine tumors of the gastroenteropancreatic system. Faiss S, et al. **Recent Results Cancer Res** 1996;142:193–207 (41 ref.)

Medical treatment of metastasizing carcinoid tumors. Arnold R. **World J Surg** 1996 Feb;20(2):203–7 (43 ref.)

[Photodynamic therapy of gastrointestinal malignant tumors] Haddad R, et al. **Harefuah** 1996 Jun 2;130(11):765–9 (43 ref.) **(Heb)**

[Quality of life and chemotherapy in terminal stage of gastrointestinal cancers] Matsukawa M, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):785–91 (Eng. Abstr.) **(Jpn)**

[TUT-7 early phase II clinical study for various solid tumors and hematologic malignancies] Taguchi T, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1253–61 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Matrix metalloproteinases. Parsons SL, et al. **Br J Surg** 1997 Feb;84(2):160–6 (99 ref.)

Measurement of glutathione S-transferase P1-1 in plasma: pitfalls and significance of screening and follow-up of patients with gastrointestinal carcinoma. Mulder TP, et al. **Cancer** 1997 Sep 1;80(5):873–80

Evidences for involvement of cyclooxygenase-2 in proliferation of two gastrointestinal cancer cell lines. Tsuji S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):179–83

The role of Src family kinases in the normal and neoplastic gastrointestinal tract. Banker N, et al. **Surg Oncol** 1996 Oct–Dec;5(5–6):201–10 (92 ref.)

EPIDEMIOLOGY

Primary gastrointestinal non-Hodgkin's lymphoma. A population based study in central Finland in 1975–1993. Halme L, et al. **Acta Oncol** 1997;36(1):69–74

HIV-associated non-Hodgkin's lymphoma of the gastrointestinal tract. Beck PL, et al. **Am J Gastroenterol** 1996 Nov;91(11):2377–81

Case-control study of cancer risk in tetraethyl lead manufacturing. Fayerweather WE, et al. **Am J Ind Med** 1997 Jan;31(1):28–35

Do we believe what patients say about their neoplastic symptoms? An analysis of factors that influence the interviewer's judgement. Porta M, et al. **Eur J Epidemiol** 1996 Dec;12(6):553–62

Comorbid occurrence of cholelithiasis and gastrointestinal cancer. Bansal P, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):985–8

Lipid peroxidation and activities of antioxidant enzymes in iron deficiency and effect of carcinogen feeding. Rao J, et al. **Free Radic Biol Med** 1996;21(1):103–8

Gastrointestinal cancer after treatment of Hodgkin's disease. Birdwell SH, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):67–73

The epidemiology of gastrointestinal cancer in Turkey: a review of our accumulated experience. Memik F, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):209–13 (20 ref.)

GASTROINTESTINAL NEOPLASMS

Alimentary tract malignancies in children. Bethel CA, et al. **J Pediatr Surg** 1997 Jul;32(7):1004–8; discussion 1008–9

Primary gastrointestinal lymphomas in Jordan are similar to those in Western countries. Almasri NM, et al. **Mod Pathol** 1997 Feb;10(2):137–41

Spectrum of gastrointestinal malignancy over a period of 10 years at a tertiary referal center of India. Rawal KK, et al. **Trop Gastroenterol** 1995 Jul–Sep;16(3):34–7

ETIOLOGY

Effects of diet and ethanol treatment on azoxymethane-induced liver and gastrointestinal neoplasia of male rats. Hakkak R, et al. **Cancer Lett** 1996 Oct 22; 107(2):257–64

Rolling in the clover: trefoil factor family (TFF)–domain peptides, cell migration and cancer. Wright NA, et al. **FEBS Lett** 1997 May 19;408(2):121–3 (20 ref.)

Gall stones, colorectal and other cancers [comment] Ekbom A. **Gut** 1996 Sep;39(3):491. Comment on: Gut 1996 Sep;39(3):439–43.

Risk of colorectal cancer and other cancers in patients with gall stones [see comments] Johansen C, et al. **Gut** 1996 Sep;39(3):439–43. Comment in: Gut 1996 Sep;39(3):491.

Adhesion receptors in malignant transformation and dissemination of gastrointestinal tumors. Streit M, et al. **Recent Results Cancer Res** 1996;142:19–50 (141 ref.)

[Gastrointestinal polyposis in Bourneville's tuberous sclerosis: an involvement often overlooked] Tahri N, et al. **Ann Gastroenterol Hepatol (Paris)** 1996 May–Jun; 32(3):123–7 (Eng. Abstr.) **(Fre)**

[Gastroenterology update 1995—II] Layer P, et al. **Med Klin** 1996 Jan 15;91(1):20–7 (88 ref.) **(Ger)**

[Gastrointestinal problems in elderly patients] Reimann FM, et al. **Z Gerontol Geriatr** 1997 May–Jun;30(3):208–19 (52 ref.) (Eng. Abstr.) **(Ger)**

[Malignancy in Crohn's disease] Stermer E, et al. **Harefuah** 1997 May 15;132(10):713–6 (44 ref.) **(Heb)**

GENETICS

Oncogene expression in gastroenteropancreatic neuroendocrine tumors: implications for pathogenesis. Wang DG, et al. **Cancer** 1997 Aug 15;80(4):668–75

Frequent mutation of the E2F–4 cell cycle gene in primary human gastrointestinal tumors. Souza RF, et al. **Cancer Res** 1997 Jun 15;57(12):2350–3

Genetic and nutritional modulation of colon cancer development. Lipkin M. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:37–9

A juvenile polyposis tumor suppressor locus at 10q22 is deleted from nonepithelial cells in the lamina propria. Jacoby RF, et al. **Gastroenterology** 1997 Apr; 112(4):1398–403

Contributions of the molecular biologist in gastrointestinal cancer and precancer screening: current possibilities and future prospects. Craanen ME, et al. **Gastrointest Endosc Clin N Am** 1997 Jan;7(1):147–64 (142 ref.)

Chromosome spreading techniques for primary gastrointestinal tumors. Sasai K, et al. **J Gastroenterol** 1996 Aug;31(4):505–11

An extended Li–Fraumeni kindred with gastric carcinoma and a codon 175 mutation in TP53. Varley JM, et al. **J Med Genet** 1995 Dec;32(12):942–5

Clonal X–inactivation analysis of human tumours using the human androgen receptor gene (HUMARA) polymorphism: a non–radioactive and semiquantitative strategy applicable to fresh and archival tissue. Kopp P, et al. **Mol Cell Probes** 1997 Jun;11(3):217–28

Microsatellite instability in the insulin–like growth factor II receptor gene in gastrointestinal tumours [letter] [published erratum appears in Nat Genet 1996 Dec;14(4):488] Souza RF, et al. **Nat Genet** 1996 Nov;14(3):255–7

Lack of loss of heterozygosity at the c–erbA beta locus in gastrointestinal tumors [published erratum appears in Oncology 1997 Sep–Oct;54(5):370] Huber–Gieseke T, et al. **Oncology** 1997 May–Jun;54(3):214–9

Prognostic significance of molecular biological and immunohistological parameters in gastrointestinal carcinomas. Rüschoff J, et al. **Recent Results Cancer Res** 1996;142:73–88 (70 ref.)

Gene expression profiles in normal and cancer cells. Zhang L, et al. **Science** 1997 May 23;276(5316):1268–72

Effects of DNA ploidy patterns on the survival of patients with primary gastrointestinal lymphoma. Okuda A, et al. **Surg Today** 1996;26(8):586–90

[Tumor suppressor gene p53—function and significance in gastroenterology] Schoppmeyer K, et al. **Z Gastroenterol** 1997 Jun;35(6):491–509 (153 ref.) (Eng. Abstr.) **(Ger)**

[Clinical significance of genetic instability in gastrointestinal cancers] Mori M, et al. **Nippon Rinsho** 1996 Apr; 54(4):1025–30 (24 ref.) (Eng. Abstr.) **(Jpn)**

HISTORY

[History of gastrointestinal radiology] Swart B. **Radiologe** 1996 Jan;36(1):96–8 **(Ger)**

IMMUNOLOGY

Functional expression of CD11a on CD8+ cells is suppressed in regional lymph nodes with cancer involvement in patients with gastrointestinal carcinoma. Shinkal H, et al. **Cancer** 1996 Oct 15;78(8):1677–85

Immunoresponsiveness of cancer patients: effect of blood transfusion and immune reactivity of tumor infiltrating lymphocytes. Quintiliani L, et al. **Cancer Detect Prev** 1995; 19(6):518–26

Relationship of blood transfusion, post–operative infections and immunoreactivity in patients undergoing surgery for gastrointestinal cancer. Quintiliani L, et al. **Haematologica** 1997 May–Jun;82(3):318–23

Augmented antitumor effects of killer cells induced by tumor necrosis factor gene–transduced autologous tumor cells from gastrointestinal cancer patients. Sato Y, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1895–905

High–dose therapy with iodine–131–labeled monoclonal antibody CC49 in patients with gastrointestinal cancers: a phase I trial. Tempero M, et al. **J Clin Oncol** 1997 Apr; 15(4):1518–28

A case–control study on lymphocytic subsets in elderly bearing a gastroenteric cancer. Nano M, et al. **Panminerva Med** 1997 Mar;39(1):6–11

[Antibodies against Bacillus megaterium H glycoprotein in patients with oncological and nononcological pathology of gastro–intestinal tract] Autenshlius AI, et al. **Biull Eksp Biol Med** 1994 May;117(5):520–2 **(Rus)**

METABOLISM

Preferential expression of the mucosal homing receptor integrin alpha 4 beta 7 in gastrointestinal non–Hodgkin's lymphomas. Drillenburg P, et al. **Am J Pathol** 1997 Mar; 150(3):919–27

Early postoperative enteral feeding improves whole body protein kinetics in upper gastrointestinal cancer patients. Hochwald SN, et al. **Am J Surg** 1997 Sep;174(3):325–30

Immunohistochemical expression of transforming growth factor alpha and epidermal growth factor receptor in gastrointestinal carcinoids. Krishnamurthy S, et al. **Am J Surg Pathol** 1997 Mar;21(3):327–33

Glutamine extraction by the gut is reduced in depleted [corrected] patients with gastrointestinal cancer [published erratum appears in Ann Surg 1997 Jul;226(1):114] van der Hulst RR, et al. **Ann Surg** 1997 Jan;225(1):112–21

The expression of costimulatory molecules CD80 and CD86 in human carcinoma cell lines: its regulation by interferon gamma and interleukin–10. Li J, et al. **Cancer Immunol Immunother** 1996 Dec;43(4):213–9

Expression and identification of aberrant c–kit transcripts in human cancer cells. Takaoka A, et al. **Cancer Lett** 1997 May 19;115(2):257–61

Endocytosis of gastrin in cancer cells expressing gastrin/CCK–B receptor. Tarasova NI, et al. **Cell Tissue Res** 1997 Feb;287(2):325–33

Oestrogen and progesterone receptors in gastrointestinal cancer cell lines. Jacobs E, et al. **Eur J Cancer** 1996 Dec; 32A(13):2348–53

Somatostatin receptor subtypes sst1, sst2, sst3 and sst5 expression in human pituitary, gastroentero–pancreatic and mammary tumors: comparison of mRNA analysis with receptor autoradiography. Schaer JC, et al. **Int J Cancer** 1997 Mar 4;70(5):530–7

Fibroblast growth factor 1 and fibroblast growth factor 2 immunoreactivity in gastrointestinal tumours. el–Hariry I, et al. **J Pathol** 1997 Jan;181(1):39–45

Molecular diagnosis of circulating cancer cells using MAGE gene assays [letter] Mori M, et al. **JAMA** 1997 Aug 13; 278(6):476–7

Metallothionein: a potential marker for differentiating benign and neoplastic gastrointestinal lymphoid infiltrates. Rizkalla KS, et al. **Pathology** 1997 May;29(2):141–6

Gastroenteropancreatic tumours and prohormones. Rehfeld JF, et al. **Scand J Gastroenterol Suppl** 1996;216:39–45 (52 ref.)

Immunohistochemical localization of acidic fibroblast growth factor in normal human enterochromaffin cells and related gastrointestinal tumours. La Rosa S, et al. **Virchows Arch** 1997 Feb;430(2):117–24

MORTALITY

Gastrointestinal cancer mortality of workers in occupations with high asbestos exposures. Kang SK, et al. **Am J Ind Med** 1997 Jun;31(6):713–8

Carcinoid tumors: analysis of prognostic factors and survival in 301 patients from a referral center. Janson ET, et al. **Ann Oncol** 1997 Jul;8(7):685–90

Ten–year survival of patients with cancer of the digestive tract in Umbria, Italy. La Rosa F, et al. **Eur J Epidemiol** 1997 Jan;13(1):9–13

Effects of DNA ploidy patterns on the survival of patients with primary gastrointestinal lymphoma. Okuda A, et al. **Surg Today** 1996;26(8):586–90

PATHOLOGY

Inflammatory cell–rich gastrointestinal autonomic nerve tumor. An expansion of its histologic spectrum. Shek TW, et al. **Am J Surg Pathol** 1996 Mar;20(3):325–31

Gastrointestinal endocrine tumours. Pathology. Bishop AE, et al. **Baillieres Clin Gastroenterol** 1996 Dec;10(4):555–69 (65 ref.)

Peptide receptors in gut endocrine tumours. de Herder WW, et al. **Baillieres Clin Gastroenterol** 1996 Dec;10(4):571–87 (55 ref.)

Recombinant toxins containing human granulocyte–macrophage colony–stimulating factor and either pseudomonas exotoxin or diphtheria toxin kill gastrointestinal cancer and leukemia cells. Kreitman RJ, et al. **Blood** 1997 Jul 1;90(1):252–9

Accuracy of laparoscopic ultrasonography in the staging of upper gastrointestinal malignancy [see comments] Anderson DN, et al. **Br J Surg** 1996 Oct;83(10):1424–8. Comment in: Br J Surg 1997 Apr;84(4):580.

Gastrointestinal autonomic nerve tumor of the esophagus. A clinicopathologic, immunohistochemical, ultrastructural study of a case and review of the literature. Lam KY, et al. **Cancer** 1996 Oct 15;78(8):1651–9 (29 ref.)

The efficacy of laparoscopic staging in patients with upper gastrointestinal tumors. van Dijkum EJ, et al. **Cancer** 1997 Apr 1;79(7):1315–9

Liver–directed therapies for gastrointestinal malignancies. McMurrick PJ, et al. **Curr Opin Oncol** 1997 Jul;9(4):367–72 (34 ref.)

Malignant gastrointestinal lymphomas in patients with AIDS. Heise W, et al. **Digestion** 1997;58(3):218–24

Do we believe what patients say about their neoplastic symptoms? An analysis of factors that influence the interviewer's judgement. Porta M, et al. **Eur J Epidemiol** 1996 Dec;12(6):553–62

Implantation metastases from gastrointestinal cancer after percutaneous puncture or biliary drainage. Andersson R, et al. **Eur J Surg** 1996 Jul;162(7):551–4

Primary gastrointestinal T–cell lymphoma resembling multiple lymphomatous polyposis. Hirakawa K, et al. **Gastroenterology** 1996 Sep;111(3):778–82

Multiple lymphomatous polyposis of the gastrointestinal tract: prospective clinicopathologic study of 31 cases. Groupe D'étude des Lymphomes Digestifs. Ruskoné–Fourmestraux A, et al. **Gastroenterology** 1997 Jan; 112(1):7–16

Diagnosis, staging, and cure of early gastrointestinal cancer [editorial; comment] Lightdale CJ. **Gastrointest Endosc** 1996 Jul;44(1):95–6. Comment on: Gastrointest Endosc 1996 Jul;44(1):8–14. Comment on: Gastrointest Endosc 1996 Jul;44(1):15–22.

The TNM staging system. Tio TL. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S19–24

Endoscopic ultrasonography–guided fine–needle aspiration biopsy of lymph nodes. Vilmann P. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S24–9

Three cases of primary malignant melanoma of the alimentary tract. Christova S, et al. **Gen Diagn Pathol** 1996 Jun; 142(1):63–7

Micrometastases: marker of metastatic potential or evidence of residual disease?[see comments] O'Sullivan GC, et al. **Gut** 1997 Apr;40(4):512–5. Comment in: Gut 1997 Apr;40(4):555–6.

Retrograde lymphatic spread: a likely route for metastatic ovarian cancers of gastrointestinal origin. Chang TC, et al. **Gynecol Oncol** 1997 Sep;66(3):372–7

Overexpression of the MTA1 gene in gastrointestinal carcinomas: correlation with invasion and metastasis. Toh Y, et al. **Int J Cancer** 1997 Aug 22;74(4):459–63

Metastatic cutaneous carcinoid. McCracken GA, et al. **J Am Acad Dermatol** 1996 Dec;35(6):997–8

A review of gastrointestinal epithelial renewal and its relevance to the development of adenocarcinomas of the gastrointestinal tract. Eastwood GL. **J Clin Gastroenterol** 1995;21 Suppl 1:S1–11 (116 ref.)

Mucosa–associated lymphoid tissue gastrointestinal and nongastrointestinal lymphoma behavior: analysis of 108 patients. Thieblemont C, et al. **J Clin Oncol** 1997 Apr; 15(4):1624–30

Primary cutaneous immunocytoma: report of an unusual case with secondary spreading to the gastrointestinal tract. Sangüeza OP, et al. **J Cutan Pathol** 1997 Jan;24(1):43–6

A comparison of the clinical usefulness of CA 19–9 and CA 50 in the diagnosis and monitoring of gastrointestinal cancers. Kokociñska D, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):283–7

Fine needle aspiration of intra–abdominal masses for cytodiagnosis. Khan AA, et al. **J Indian Med Assoc** 1996 May;94(5):167–8, 194

Multiple lymphomatous polyposis. Kadayifçi A, et al. **J Surg Oncol** 1997 Apr;64(4):336–40

Primary gastrointestinal lymphomas in Jordan are similar to those in Western countries. Almasri NM, et al. **Mod Pathol** 1997 Feb;10(2):137–41

Correspondence Re: Suster S. Fletcher DM: Gastrointestinal stromal tumors with prominent signet–ring cell features. Mod Pathol 9:609, 1996 [letter; comment] Schned AR. **Mod Pathol** 1996 Nov;9(11):1089. Comment on: Mod Pathol 1996 Jun;9(6):609–13.

Gastrointestinal stromal tumors with prominent signet–ring cell features [see comments] Suster S, et al. **Mod Pathol** 1996 Jun;9(6):609–13. Comment in: Mod Pathol 1996 Nov;9(11):1089.

Intermediate lymphocytic lymphoma massively involving the gastrointestinal tract. Tsutsumi Y, et al. **Pathol Int** 1996 May;46(5):380–3

Malignant rhabdoid tumor in adults—heterogenous tumors with a unique morphological phenotype. Leong FJ, et al. **Pathol Res Pract** 1996 Aug;192(8):796–807 (34 ref.)

Gastrointestinal manifestations in pediatric AIDS. Kahn E. **Pediatr Pathol Lab Med** 1997 Mar–Apr;17(2):171–208 (127 ref.)

Radiotherapy for treatment of localized gastrointestinal non-Hodgkin's lymphoma [published erratum appears in Radiother Oncol 1997 Mar;42(3):317] Kocher M, et al. **Radiother Oncol** 1997 Jan;42(1):37–41

Gastrointestinal lymphomas: an overview with emphasis on new findings and diagnostic problems. Chan JK. **Semin Diagn Pathol** 1996 Nov;13(4):260–96 (154 ref.)

Gastrointestinal stromal tumors. Suster S. **Semin Diagn Pathol** 1996 Nov;13(4):297–313 (65 ref.)

Gastrointestinal endocrine cancers and nodal metastasis: biologic significance and therapeutic implications. Peplinski GR, et al. **Surg Oncol Clin N Am** 1996 Jan;5(1):159–71 (101 ref.)

The invasion-MTT assay as a predictor of liver metastasis using human gastrointestinal carcinomas transplanted in nude mice. Ohsako T, et al. **Surg Today** 1997;27(7):638–44

Diffuse leiomyomatosis of the gastrointestinal tract in a single patient—esophagus to rectum: case report. Sell HW Jr, et al. **Surgery** 1997 Sep;122(3):637–40

Gastrointestinal autonomic nerve tumor: a common type of gastrointestinal stromal neoplasm. Donner LR. **Ultrastruct Pathol** 1997 Sep–Oct;21(5):419–24

Subclassification of gastrointestinal stromal tumors based on evaluation by electron microscopy and immunohistochemistry [see comments] Erlandson RA, et al. **Ultrastruct Pathol** 1996 Jul–Aug;20(4):373–93. Comment in: Ultrastruct Pathol 1997 May–Jun;21(3):311–3.

Perforin-like immunoreactivity in four cases of lymphoma of large granular lymphocytes in the cat. Kariya K, et al. **Vet Pathol** 1997 Mar;34(2):156–9

Pathology and nomenclature of human gastrointestinal neuroendocrine (carcinoid) tumors and related lesions. Klöppel G, et al. **World J Surg** 1996 Feb;20(2):132–41 (88 ref.)

[Therapy of metastatic endocrine tumors of the gastrointestinal tract (letter)] Arnold R, et al. **Dtsch Med Wochenschr** 1996 Oct 25;121(43):1346–7 **(Ger)**

[Adenovirus gene therapy for liver metastases of gastrointestinal tumors. Development status and future prospectives] Block A, et al. **Dtsch Med Wochenschr** 1997 May 30;122(22):728–32 (17 ref.) **(Ger)**

[Detection of human herpesvirus 8 (HHV 8) in Kaposi sarcomas of the gastrointestinal tract] Cathomas G, et al. **Schweiz Med Wochenschr** 1997 Jun 7;127(23):988–91 (Eng. Abstr.) **(Ger)**

[Radiation induced apoptosis in cultured human epithelial tumor cells] Yanagihara K. **Nippon Rinsho** 1996 Jul; 54(7):1943–8 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Metachronous cancer of the gastro-intestinal tract with signs of endocrine-cell differentiation] Turbin DA, et al. **Arkh Patol** 1996 Jul–Aug;58(4):28–32 (Eng. Abstr.) **(Rus)**

[Syndrome of multiple neoplasia type IIB (MEN IIB): a case report] Alpera Lacruz R, et al. **An Esp Pediatr** 1996 Oct; 45(4):421–4 **(Spa)**

[Gastrointestinal stromal sarcoma. Report of a case and review of the literature] Estrada SM, et al. **G E N** 1995 Oct–Dec;49(4):310–3 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Mucosa-associated lymphoid tissue gastrointestinal and nongastrointestinal lymphoma behavior: analysis of 108 patients. Thieblemont C, et al. **J Clin Oncol** 1997 Apr; 15(4):1624–30

Modulation of multidrug resistance by cepharanthine in fresh human gastrointestinal tumor cells. Hotta T, et al. **Oncology** 1997 Mar–Apr;54(2):153–7

PREVENTION & CONTROL

Contributions of the molecular biologist in gastrointestinal cancer and precancer screening: current possibilities and future prospects. Craanen ME, et al. **Gastrointest Endosc Clin N Am** 1997 Jan;7(1):147–64 (142 ref.)

Phase I study of recombinant CEA vaccinia virus vaccine with post vaccination CEA peptide challenge. Cole DJ, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1381–94

Gastrointestinal malignant tumours: are they increasing? [editorial] Mehdi I. **JPMA J Pak Med Assoc** 1997 Jun; 47(6):152–3

Nutrition chemoprevention of gastrointestinal cancers: a critical review. Kim YI, et al. **Nutr Rev** 1996 Sep; 54(9):259–79 (119 ref.)

Data review shows fruits and vegetables can block major cancers [news] **Oncology (Huntingt)** 1996 Sep;10(9):1411–2

Basis and consequences of primary and secondary prevention of gastrointestinal tumors. Goldin-Lang P, et al. **Recent Results Cancer Res** 1996;142:163–92 (127 ref.)

[Does regular administration of aspirin reduce the risk of gastrointestinal carcinomas?] Folwaczny C, et al. **Z Gastroenterol** 1996 Dec;34(12):823–5 **(Ger)**

RADIOGRAPHY

Non-Hodgkin's lymphoma of the gastrointestinal tract: radiographic findings. Levine MS, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):165–72 (46 ref.)

Diffuse leiomyomatosis of the gastrointestinal tract in a single patient—esophagus to rectum: case report. Sell HW Jr, et al. **Surgery** 1997 Sep;122(3):637–40

[Primary gastrointestinal lymphoma] Antes G. **Radiologe** 1997 Jan;37(1):35–41 (38 ref.) (Eng. Abstr.) **(Ger)**

[1995 literature review: radiology of the esophagus, stomach and intestines] Aschoff AJ. **Rontgenpraxis** 1996 Feb; 49(2):37–42 (48 ref.) **(Ger)**

RADIONUCLIDE IMAGING

Clinical impact of somatostatin receptor scintigraphy in the management of patients with neuroendocrine gastroenteropancreatic tumors. Lebtahi R, et al. **J Nucl Med** 1997 Jun;38(6):853–8

Patient-specific dosimetry of indium-111- and yttrium-90-labeled monoclonal antibody CC49. Leichner PK, et al. **J Nucl Med** 1997 Apr;38(4):512–6

123I-vasoactive intestinal peptide (VIP) receptor scanning: update of imaging results in patients with adenocarcinomas and endocrine tumors of the gastrointestinal tract. Virgolini I, et al. **Nucl Med Biol** 1996 Aug;23(6):685–92

The role of 111In-octreotide scintigraphy in the detection of APUD tumours: our experience in eighteen patients. Borsato N, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):113–5

[Pre- and intraoperative localization of neuroendocrine tumors] Adams S, et al. **Acta Med Austriaca** 1997;24(2):81–6 (Eng. Abstr.) **(Ger)**

[Clinical value of somatostatin receptor scintigraphy. Studies of pre- and intraoperative localization of gastrointestinal and pancreatic tumors] Adams S, et al. **Med Klin** 1997 Mar 15;92(3):138–43 (Eng. Abstr.) **(Ger)**

[Somatostatin receptor scintigraphy. Methodology, indications, results] Eising EG, et al. **Radiologe** 1996 Jan; 36(1):81–8 (33 ref.) (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

Patient-specific dosimetry of indium-111- and yttrium-90-labeled monoclonal antibody CC49. Leichner PK, et al. **J Nucl Med** 1997 Apr;38(4):512–6

Radiotherapy for treatment of localized gastrointestinal non-Hodgkin's lymphoma [published erratum appears in Radiother Oncol 1997 Mar;42(3):317] Kocher M, et al. **Radiother Oncol** 1997 Jan;42(1):37–41

[Radiation induced apoptosis in cultured human epithelial tumor cells] Yanagihara K. **Nippon Rinsho** 1996 Jul; 54(7):1943–8 (20 ref.) (Eng. Abstr.) **(Jpn)**

SECONDARY

Gastrointestinal metastases of melanoma. Faes W, et al. **J Belge Radiol** 1996 Dec;79(6):268

Primary cutaneous immunocytoma: report of an unusual case with secondary spreading to the gastrointestinal tract. Sangüeza OP, et al. **J Cutan Pathol** 1997 Jan;24(1):43–6

Metastatic melanoma: endoscopy as aid to earlier in vivo diagnosis of gastrointestinal involvement. A case report. Giacobbe A, et al. **Minerva Gastroenterol Dietol** 1996 Sep; 42(3):169–71

Squamous cell carcinoma of the pancreas with gastric metastasis. Case report. Bringel RW, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):195–7

Non-Hodgkin lymphoma with exclusive involvement of the heart and the gastrointestinal tract. Zelger BG, et al. **Virchows Arch** 1997 May;430(5):427–30

SURGERY

How long does it take to operate? The implications for in patient malnutrition. Silk DB. **Acta Gastroenterol Latinoam** 1996;26(2):101–4

Follow-up of patients with gastrointestinal cancer by tumor marker determination. Lukinac L, et al. **Acta Med Croatica** 1997;51(2):73–7

Early postoperative enteral feeding improves whole body protein kinetics in upper gastrointestinal cancer patients. Hochwald SN, et al. **Am J Surg** 1997 Sep;174(3):325–30

Elective surgery for gastrointestinal tumours in the elderly. Audisio RA, et al. **Ann Oncol** 1997 Apr;8(4):317–26 (112 ref.)

Surgical management of gastrointestinal endocrine tumours. Goldstone AP, et al. **Baillieres Clin Gastroenterol** 1996 Dec; 10(4):707–36 (125 ref.)

Port-site metastases in patients undergoing laparoscopy for gastrointestinal malignancy [see comments] Cook TA, et al. **Br J Surg** 1996 Oct;83(10):1419–20. Comment in: Br J Surg 1997 Apr;84(4):583.

Surgical palliation of upper gastrointestinal cancer. Eisenberg BL. **Curr Probl Cancer** 1995 Nov–Dec;19(6):338–47 (40 ref.)

The role of surgery in patients with advanced midgut carcinoid tumours. Ahlman H. **Digestion** 1996;57 Suppl 1:86–7

Endoscopic resection of gastrointestinal tumors: how far can the endoscopist go? [editorial; comment] Dorais J, et al. **Endoscopy** 1997 Mar;29(3):192–5. Comment on: Endoscopy 1997 Mar;29(3):165–70.

Implantation metastases from gastrointestinal cancer after percutaneous puncture or biliary drainage. Andersson R, et al. **Eur J Surg** 1996 Jul;162(7):551–4

Blue rubber bleb nevus syndrome: endoscopic removal of the gastrointestinal hemangiomas. Bak YT, et al. **Gastrointest Endosc** 1997 Jan;45(1):90–2

An endoscopic technique for resection of small gastrointestinal carcinomas. Sakal P, et al. **Gastrointest Endosc** 1996 Jul;44(1):65–8

Erythropoietic response induced by recombinant human erythropoietin in anemic cancer patients candidate to major abdominal surgery. Braga M, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):685–90

Intraoperative ultrasound in gastrointestinal cancer. An analysis of 272 operated patients. Herman K. **Hepatogastroenterology** 1996 May–Jun;43(9):565–70

Incidental cholecystectomy in the over-70 age group. A 19-year retrospective, comparative study. Watemberg S, et al. **Int Surg** 1997 Jan–Mar;82(1):102–4

Advantage of surgery and adjuvant chemotherapy in the treatment of primary gastrointestinal lymphoma. Lin KM, et al. **J Surg Oncol** 1997 Mar;64(3):237–41

Extended lymph node dissection in gastrointestinal cancer. Noguchi M, et al. **J Surg Oncol** 1997 May;65(1):57–65 (86 ref.)

Early postoperative enteral nutrition improves peripheral protein kinetics in upper gastrointestinal cancer patients undergoing complete resection: a randomized trial. Harrison LE, et al. **JPEN J Parenter Enteral Nutr** 1997 Jul–Aug;21(4):202–7

Surgical treatment of gastrointestinal B-cell mucosa-associated lymphoid tissue lymphomas. Papachristodoulou A, et al. **South Med J** 1997 Jul; 90(7):723–8

The safety of helium for abdominal insufflation. Fleming RY, et al. **Surg Endosc** 1997 Mar;11(3):230–4

Possible benefit of preoperative blood deposit for abdominal surgery. Flordal PA, et al. **World J Surg** 1997 May; 21(4):349–52

[Laparoscopic resections of malignant diseases of the gastrointestinal tract] Rosenthal J, et al. **Chirurg** 1997 Mar; 68(3):210–4 (16 ref.) (Eng. Abstr.) **(Ger)**

[Minimally invasive surgery and tumor surgery—palliative laparoscopic techniques] Saeger HD, et al. **Chirurg** 1997 Mar;68(3):225–30 (25 ref.) (Eng. Abstr.) **(Ger)**

[Long-term results of abdominal surgery interventions. Different evaluation from the viewpoint of the patient, the surgeon and the public health office] Scherwitz P, et al. **Langenbecks Arch Chir** 1997;382(1):19–24 (Eng. Abstr.) **(Ger)**

[Curative interventions for recurrence of gastrointestinal carcinomas—incidence and prognosis] Hohenberger W, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:218–21 (Eng. Abstr.) **(Ger)**

[Gastrointestinal lymphomas: results of multimodal therapy in 57 patients of one center] Kiene J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:244–6 (Eng. Abstr.) **(Ger)**

[Surgical procedure in non-Hodgkin's lymphomas of the digestive system—a status quo analysis] Reers B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:241–3 (Eng. Abstr.) **(Ger)**

[Strategy and results of advanced tumors in emergency situations] Ruf C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:183–5 (Eng. Abstr.) **(Ger)**

[Synergistic effects of intracavitary and endoluminal endoscopic surgery] Schippers E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:767–9 (Eng. Abstr.) **(Ger)**

[Long-term prognosis of the critically ill intensive care patient] Zumtobel V, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:289–92 (Eng. Abstr.) **(Ger)**

[After-care of gastrointestinal malignancies—an evaluation of costs and benefits] Zieren HU, et al. **Zentralbl Chir** 1996; 121(3):167–76 (Eng. Abstr.) **(Ger)**

[Should a doctor be insistence in proposing surgery for cancer?] Fedorov VD. **Khirurgiia (Mosk)** 1997;(2):13–7 (10 ref.) (Eng. Abstr.) **(Rus)**

[The correction of the disseminated intravascular coagulation syndrome in the emergency surgery of gastrointestinal tract cancer] Alipov VV, et al. **Vestn Khir Im I I Grek** 1997; 156(1):97–100 (Eng. Abstr.) **(Rus)**

THERAPY

Gastrointestinal endocrine tumours: medical management. Arnold R, et al. **Baillieres Clin Gastroenterol** 1996 Dec; 10(4):737–59 (120 ref.)

Surgically directed chemotherapy: heated intraperitoneal lavage with mitomycin C. Fernández-Trigo V, et al. **Cancer Treat Res** 1996;81:51–61

Gastrointestinal cancer in the elderly. Lichtman SM, et al. **Clin Geriatr Med** 1997 May;13(2):307–26 (135 ref.)

Gastrointestinal tract. **Curr Opin Oncol** 1997 Jul;9(4):B105–22

Neoadjuvant therapy for upper gastrointestinal tract cancers. Kelsen D. **Curr Opin Oncol** 1996 Jul;8(4):321–8 (40 ref.)

Chronotherapy for gastrointestinal cancers. Lévi F. **Curr Opin Oncol** 1996 Jul;8(4):334–41 (61 ref.)

Liver-directed therapies for gastrointestinal malignancies. McMurrick PJ, et al. **Curr Opin Oncol** 1997 Jul;9(4):367–72 (34 ref.)

Biological therapies for gastrointestinal cancers. Weiner LM. **Curr Opin Oncol** 1997 Jul;9(4):373–9 (23 ref.)

Gut neuroendocrine tumors. Warner RR. **Curr Ther Endocrinol Metab** 1997;6:606–14 (4 ref.)

Diagnosis, staging, and cure of early gastrointestinal cancer [editorial; comment] Lightdale CJ. **Gastrointest Endosc** 1996 Jul;44(1):95–6. Comment on: Gastrointest Endosc 1996 Jul;44(1):8–14. Comment on: Gastrointest Endosc

1996 Jul;44(1):15–22.
TNF–alpha and endotoxin serum levels in cancer patients undergoing intraperitoneal hyperthermic perfusion. Sumida M, et al. **Int J Hyperthermia** 1996 Sep–Oct;12(5):607–15
High–dose therapy with iodine–131–labeled monoclonal antibody CC49 in patients with gastrointestinal cancers: a phase I trial. Tempero M, et al. **J Clin Oncol** 1997 Apr; 15(4):1518–28
[Diagnosis and therapy of liver metastases of neuroendocrine tumors] Lehnert T, et al. **Chirurg** 1997 Feb;68(2):122–31 (63 ref.) (Eng. Abstr.) **(Ger)**
[Prevention of cancer with the endoscope] Lersch C, et al. **Internist (Berl)** 1996 Aug;37(8):823–9 (102 ref.) **(Ger)**
[Induction of cellular immune response against autologous tumor cells of gastrointestinal carcinomas by brief stimulation of blood lymphocytes with interleukin 12] Ströhlein MA, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:131–6 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Accuracy of laparoscopic ultrasonography in the staging of upper gastrointestinal malignancy [letter; comment] Midwinter MJ, et al. **Br J Surg** 1997 Apr;84(4):580. Comment on: Br J Surg 1996 Oct;83(10):1424–8.
Clinical applications of a new through–the–scope ultrasound probe: prospective comparison with an ultrasound endoscope. Chak A, et al. **Gastrointest Endosc** 1997 Mar; 45(3):291–5
Endosonographic differentiation of benign and malignant stromal cell tumors. Chak A, et al. **Gastrointest Endosc** 1997 Jun;45(6):468–73
A primer on linear array endosonographic anatomy. Chang KJ, et al. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S43–7
Endoscopic ultrasound–guided fine–needle aspiration biopsy using linear array and radial scanning endosonography [see comments] Gress FG, et al. **Gastrointest Endosc** 1997 Mar; 45(3):243–50. Comment in: Gastrointest Endosc 1997 Mar;45(3):329–31.
Gastrointestinal lymphangioma: endosonographic demonstration and endoscopic removal. Hizawa K, et al. **Gastrointest Endosc** 1996 Jun;43(6):620–4
Indications, contraindications, and complications of endoscopic ultrasonography. Lightdale CJ.
Gastrointest Endosc 1996 Feb;43(2 Pt 2):S15–9
Endoscopic ultrasonography artifacts and problems of interpretation. Rosch T. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S10–2
Intraoperative ultrasound in gastrointestinal cancer. An analysis of 272 operated patients. Herman K.
Hepatogastroenterology 1996 May–Jun;43(9):565–70
Three–dimensional endoscopic ultrasonography of gastrointestinal lesions using an ultrasound probe. Nishimura K, et al. **Scand J Gastroenterol** 1997 Sep; 32(9):862–8
Exploring the role of endosonography. Tytgat GN, et al. **Scand J Gastroenterol Suppl** 1996;220:71–4 (30 ref.)
[Possibilities and limitations in endosonography of the gastrointestinal tract] Schmassmann A. **Ther Umsch** 1997 Jan;54(1):31–6 (Eng. Abstr.) **(Ger)**
[Gastroenterologic endoscopic ultrasonic examinations using a convex transducer] Winternitz T, et al. **Orv Hetil** 1997 Jan 12;138(2):75–9 (Eng. Abstr.) **(Hun)**

ULTRASTRUCTURE

Gastrointestinal autonomic nerve tumor: further observations regarding an ultrastructural and immunohistochemical analysis of six cases. Ojanguren I, et al. **Hum Pathol** 1996 Dec;27(12):1311–8
Crystalloid formation in gastrointestinal schwannoma. Yagihashi N, et al. **Hum Pathol** 1997 Mar;28(3):304–8
123I–vasoactive intestinal peptide (VIP) receptor scanning: update of imaging results in patients with adenocarcinomas and endocrine tumors of the gastrointestinal tract. Virgolini I, et al. **Nucl Med Biol** 1996 Aug;23(6):685–92
Gastrointestinal autonomic nerve tumors: immunohistochemical and ultrastructural studies in cases of gastrointestinal stromal tumor. Matsumoto K, et al.
Pathol Int 1997 May;47(5):308–14

VETERINARY

Perforin–like immunoreactivity in four cases of lymphoma of large granular lymphocytes in the cat. Kariya K, et al. **Vet Pathol** 1997 Mar;34(2):156–9
Immunohistochemical staining characteristics of canine gastrointestinal stromal tumors. LaRock RG, et al.
Vet Pathol 1997 Jul;34(4):303–11

VIROLOGY

Epstein–Barr virus–associated primary gastrointestinal lymphoma in non–immunocompromised patients in Korea. Lee SS, et al. **Histopathology** 1997 Mar;30(3):234–42

GASTROINTESTINAL SYSTEM

see related
GASTROENTEROSTOMY
Therapeutic endoscopy: removal of gastrointestinal foreign bodies in children. Seo JK.
Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih 1997 May–Jun;38(3):183–6
Digestive Disease Week and the 97th Annual Meeting of the American Gastroenterological Association, Washington, D.C., May 11–14, 1997. Abstracts.
Gastroenterology 1997 Apr;112(4 Suppl):A1–1487
The immunomodulation of enteric neuromuscular function: implications for motility and inflammatory disorders. Collins SM. **Gastroenterology** 1996 Dec;111(6):1683–99 (179 ref.)
The British Society of Gastroenterology diamond jubilee meeting. Brighton, 18–21 March 1997. Abstracts. **Gut** 1997; 40 Suppl 1:A1–86
Ingested foreign body associated with oral implant treatment: report of a case. Worthington P.
Int J Oral Maxillofac Implants 1996 Sep–Oct;11(5):679–81
Deliberate ingestion of foreign bodies by institutionalised psychiatric hospital patients and prison inmates. O'Sullivan ST, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):294–6
Ciliated hepatic foregut cyst. Carnicer J, et al.
J Pediatr Gastroenterol Nutr 1996 Aug;23(2):191–3
Mischievous magnets: unexpected health hazard in children. Lee SK, et al. **J Pediatr Surg** 1996 Dec;31(12):1694–5
The GI Project: a prototype electronic textbook for high school biology. Calhoun PS, et al. **Radiographics** 1997 Jan–Feb;17(1):203–11
Unusual foreign bodies of upper gastrointestinal tract. Nijhawan S, et al. **Trop Gastroenterol** 1995 Oct–Dec; 16(4):50–2
Ingested foreign bodies of the gastrointestinal tract: retrospective analysis of 542 cases. Velitchkov NG, et al.
World J Surg 1996 Oct;20(8):1001–5
[Foreign bodies in the gastrointestinal tract. Our cases and a review of the literature] Cosimati A, et al. **G Chir** 1996 Nov–Dec;17(11–12):581–5 (42 ref.) (Eng. Abstr.) **(Ita)**
[Gastrointestinal probe] Kreknin AF, et al.
Klin Lab Diagn 1997 Apr;(4):41 **(Rus)**
[Distribution of current density over the surface of electrodes of an autonomic stimulator of the gastrointestinal tract] Agafonnikov VF, et al. **Med Tekh** 1996 Sep–Oct;(5):28–31 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

Bronchopulmonary–foregut malformations: a continuum of paracrine hamartomas? Kousseff BG, et al.
Am J Med Genet 1997 Jan 10;68(1):12–7 (92 ref.)
Bowel abnormalities in the fetus––correlation of prenatal ultrasonographic findings with outcome. Corteville JE, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):724–9
Simultaneous correction of malrotation and gastroesophageal reflux in infants. Chung C, et al. **Am Surg** 1996 Oct; 62(10):800–2
Post–natal lethality and neurological and gastrointestinal defects in mice with targeted disruption of the A–Raf protein kinase gene. Pritchard CA, et al. **Curr Biol** 1996 May 1;6(5):614–7
Thoracoabdominal duplication cyst: US, CT and MR findings. Savci G, et al. **Eur Radiol** 1997;7(3):382–4
Prognostic factors of prenatally diagnosed gastroschisis. Luton D, et al. **Fetal Diagn Ther** 1997 Jan–Feb;12(1):7–14
A maternally transmitted lethal neonatal progeroid syndrome with prominent genitourinary and gastrointestinal features. Delatycki MB, et al. **J Med Genet** 1997 Jun;34(6):520–4
Management of the gastrointestinal tract and nutrition in patients with cloacal exstrophy. Davidoff AM, et al.
J Pediatr Surg 1996 Jun;31(6):771–3
[Intestinal emergencies in newborn infants] Brzezinska R.
Radiologe 1997 Jun;37(6):432–8 (25 ref.) (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

Oral magnetic particles (ferristene) as a contrast medium in abdominal magnetic resonance imaging. Jacobsen TF, et al. **Acad Radiol** 1996 Jul;3(7):571–80
Plastinated canine gastrointestinal tracts used to facilitate teaching of endoscopic technique and anatomy. Janick L, et al. **Acta Anat (Basel)** 1997;158(1):48–53
Structure and function of the gastrointestinal tract of the Florida manatee, Trichechus manatus latirostris. Reynolds JE 3rd, et al. **Anat Rec** 1996 Jul;245(3):539–58
The gastrointestinal tract: cross sectional imaging [editorial] Dixon AK. **Eur J Radiol** 1996 May;22(2):83–5
Histological correlates to pig gastrointestinal wall layers imaged in vitro with the magnetic resonance endoscope. Kulling D, et al. **Gastroenterology** 1997 May;112(5):1568–74
Physical constraints on voluntary intake of forages by ruminants. Allen MS. **J Anim Sci** 1996 Dec;74(12):3063–75 (134 ref.)

BLOOD SUPPLY

Tachykinins increase vascular permeability in the gastrointestinal tract of the rat. Lördal M, et al.
Acta Physiol Scand 1996 Apr;156(4):489–94
Substance P and bradykinin stimulate plasma extravasation in the mouse gastrointestinal tract and pancreas. Figini M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G785–93
Role of prostaglandins and nitric oxide in gastrointestinal hyperemia of diabetic rats. Goldin E, et al.
Am J Physiol 1996 Apr;270(4 Pt 1):G684–90
Mechanical stimulation is not responsible for activation of gastrointestinal afferents during ischemia. Pan HL, et al.
Am J Physiol 1997 Jan;272(1 Pt 2):H99–106
Gut mucosal perfusion in neonates undergoing cardiopulmonary bypass. Booker PD, et al.
Br J Anaesth 1996 Nov;77(5):597–602
Non–Marfan idiopathic medionecrosis (cystic medial necrosis) presenting with multiple visceral artery aneurysms and diffuse connective tissue fragility: two brothers. Kubota J, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):225–7
Scorpion venom leads to gastrointestinal ischemia despite increased oxygen delivery in pigs. Sofer S, et al.
Crit Care Med 1997 May;25(5):834–40
Pharmacological manipulation of human gastrointestinal blood flow. Mathias CJ. **Fundam Clin Pharmacol** 1997; 11(1):29–34 (47 ref.)
Massive arterial haemorrhage from the lower gastrointestinal tract. Bateman AC, et al. **Histopathology** 1996 Sep; 29(3):225–31
Plasma flow and net nutrient flux across gut and liver of cattle fed twice daily. Whitt J, et al. **J Anim Sci** 1996 Oct; 74(10):2450–61
Heterogeneity of gut capillary transit times and impaired gut oxygen extraction in endotoxemic pigs. Humer MF, et al.
J Appl Physiol 1996 Aug;81(2):895–904

CHEMISTRY

Expression of occludin, tight–junction–associated protein, in human digestive tract. Kimura Y, et al. **Am J Pathol** 1997 Jul;151(1):45–54
32P–post–labelling analysis of DNA adducts formed in the upper gastrointestinal tissue of mice fed bracken extract or bracken spores. Povey AC, et al. **Br J Cancer** 1996 Nov; 74(9):1342–8
Application of agar–fill method to estimate compartment capacity of gastrointestinal tract in Syrian hamsters (Mesocricetus auretus). Sasaki O, et al. **Br J Nutr** 1996 Dec;76(6):833–40
Differential distribution of the mitochondrial heat–shock protein 60 in rat gastrointestinal tract. Möbius J, et al.
Cell Tissue Res 1997 Feb;287(2):343–50
Comparative study of carbohydrate portion of gastrointestinal mucins using enzyme–linked lectin–binding assay (ELLA). Ohara S, et al.
Comp Biochem Physiol B Biochem Mol Biol 1997 Feb; 116(2):167–72
Cellular and subcellular localization along the digestive and pulmonary tracts of a rabbit intestinal mucin differing from MUC2 and containing a 150 kDa light chain. Nicoletti C, et al. **Eur J Cell Biol** 1997 Aug;73(4):321–31
Indomethacin influences regulatory peptides and increases DNA synthesis in the gastrointestinal tract of the rat. Uribe A, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):665–73
The gastro–enteric–pancreatic neuroendocrine system in two reptilian species: Chalcides chalcides and Zoonosaurus madascariensis (Sauridae). Morescalchi AM, et al.
Eur J Histochem 1997;41(1):29–40
Melatonin levels in the gastrointestinal tissues of fish, amphibians, and a reptile. Bubenik GA, et al.
Gen Comp Endocrinol 1997 Jun;106(3):415–9
CCK–X receptors in the endothermic mako shark (Isurus oxyrinchus). Oliver AS, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):61–73
Immunocytochemical localization of polyamines in the gastrointestinal tracts of rats and mice. Fujiwara K, et al.
Histochem Cell Biol 1996 Nov;106(5):465–71
The G–cells in the dog: a light and electron microscope immunocytochemical study. Galán JA, et al.
Histochem J 1996 Dec;28(12):883–93
Distribution of alpha–vascular smooth muscle actin in the smooth muscle cells of the gastrointestinal tract of the chicken. Yamamoto Y, et al. **J Anat** 1996 Dec;189 (Pt 3):623–30
A gene for a novel zinc–finger protein expressed in differentiated epithelial cells and transiently in certain mesenchymal cells. Garrett–Sinha LA, et al.
J Biol Chem 1996 Dec 6;271(49):31384–90
Occurrence of WE–14 and chromogranin A–derived peptides in tissues of the human and bovine gastro–entero–pancreatic system and in human neuroendocrine neoplasia. Gleeson CM, et al.
J Endocrinol 1996 Dec;151(3):409–20
Complex co–localization of chromogranins and neurohormones in the human gastrointestinal tract. Portela–Gomes GM, et al. **J Histochem Cytochem** 1997 Jun;45(6):815–22
Immunohistochemical demonstration of GABAB receptors in the rat gastrointestinal tract. Nakajima K, et al.
Neurochem Res 1996 Feb;21(2):211–5
L–pyroglutamyl–L–tryptophan derivatives as potential drug carriers. II.: Permeation behaviour and stability in the gastro–intestinal tract. Giannola LI, et al. **Pharmazie** 1996 Jul;51(7):487–9
[Determination of the passage of two markers in the gastrointestinal tract of steers using different evaluation methods: effect of the level of nutrition] Rothfuss H, et al. **Arch Tierernahr** 1997;50(3):283–300 (Eng. Abstr.) **(Ger)**

CYTOLOGY

Substratum–dependent and region–specific control of attachment and proliferation of gastrointestinal epithelial cells in primary serum–free culture. Ichinose M, et al.

Biochem Biophys Res Commun 1997 Jan 23;230(3):537–41

Role of the interstitial cells of Cajal in the control of gut motility. Hagger R, et al. **Br J Surg** 1997 Apr;84(4):445–50 (61 ref.)

Comparison of the effects of transforming growth factor alpha and epidermal growth factor on gastrointestinal proliferation and hormone release. Playford RJ, et al. **Digestion** 1996;57(5):362–7

Accessory cells in the human gastrointestinal tract. MacDonald TT. **Histopathology** 1996 Jul;29(1):89–92 (30 ref.)

A correlative study of histology and imprint cytology in the diagnosis of gastrointestinal tract malignancies. Sharma P, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):139–46

Recombinant galectin-1 recognizes mucin and epithelial cell surface glycocalyces of gastrointestinal tract. Wasano K, et al. **J Histochem Cytochem** 1997 Feb;45(2):275–83

Apoptosis and gastrointestinal pharmacology. Pritchard DM, et al. **Pharmacol Ther** 1996;72(2):149–69 (230 ref.)

Dendritic cells of the gastrointestinal tract. Kelsall BL, et al. **Springer Semin Immunopathol** 1997;18(4):409–20 (56 ref.)

Antigen presenting cells in the porcine gut. Stokes CR, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):171–7 (32 ref.)

[Gastrointestinal endocrine cells: brief history and main identification methods under light microscopy] Santos GC, et al. **Arq Gastroenterol** 1996 Jan–Mar;33(1):36–49 (93 ref.) (Eng. Abstr.) **(Por)**

DRUG EFFECTS

Acute growth hormone injection reduced gastrointestinal and increased hepatic oleic acid oxidation in swine. Unneberg K, et al. **Acta Physiol Scand** 1996 Nov;158(3):261–8

Systemic complications of nonsteroidal anti-inflammatory drug use. Palmer BF, et al. **Adv Intern Med** 1996;41:605–39 (153 ref.)

Alcohol and the gastrointestinal tract. Preedy VR. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):48A–50A

Two comparative endoscopic evaluations of Naprelan. Hawkey C, et al. **Am J Orthop** 1996 Sep;25(9 Suppl):30–6

Necrosis of the gastrointestinal tract in uremic patients as a result of sodium polystyrene sulfonate (Kayexalate) in sorbitol: an underrecognized condition. Rashid A, et al. **Am J Surg Pathol** 1997 Jan;21(1):60–9

New model of oropharyngeal and gastrointestinal colonization by Candida albicans in CD4+ T-cell-deficient mice for evaluation of antifungal agents. Flattery AM, et al. **Antimicrob Agents Chemother** 1996 Jul; 40(7):1604–9

The Bacillus thuringiensis vegetative insecticidal protein Vip3A lyses midgut epithelium cells of susceptible insects. Yu CG, et al. **Appl Environ Microbiol** 1997 Feb;63(2):532–6

NSAID gastropathy [letter; comment] Yood RA. **Arch Intern Med** 1997 Feb 10;157(3):364. Comment on: Arch Intern Med 1996 Aug 12–26;156(15):1623–8.

Interaction of immobilised food dye residues with gut proteins. Jervis L. **Biochem Soc Trans** 1996 Aug;24(3):395S

The effect of ingestion of inulin on blood lipids and gastrointestinal symptoms in healthy females. Pedersen A, et al. **Br J Nutr** 1997 Aug;78(2):215–22

Suppressive effect of melatonin administration on ethanol-induced gastroduodenal injury in rats in vivo. Melchiorri D, et al. **Br J Pharmacol** 1997 May; 121(2):264–70

Rat proteinase-activated receptor-2 (PAR-2): cDNA sequence and activity of receptor-derived peptides in gastric and vascular tissue. Saifeddine M, et al. **Br J Pharmacol** 1996 Jun;118(3):521–30

Metabolic support of the gastrointestinal tract: potential gut protection during intensive cytotoxic therapy. Wilmore DW. **Cancer** 1997 May 1;79(9):1794–803 (72 ref.)

Pharmacology of the gastrointestinal tract. Terezhalmy GT, et al. **Dent Clin North Am** 1996 Jul;40(3):493–520 (150 ref.)

Amylin and the gastrointestinal tract. Macdonald IA. **Diabet Med** 1997 Jun;14 Suppl 2:S24–8 (21 ref.)

Olestra, a nonabsorbed, noncaloric replacement for dietary fat: a review. Lawson KD, et al. **Drug Metab Rev** 1997 Aug;29(3):651–703 (144 ref.)

NSAID-induced gastrointestinal damage. Epidemiology, risk and prevention, with an evaluation of the role of misoprostol. An Asia-Pacific perspective and consensus. Champion GD, et al. **Drugs** 1997 Jan;53(1):6–19 (112 ref.)

Gastrointestinal actions of buprenorphine: are different receptors involved? Bhounsule SA, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):253–6

Effect of butyric short-chain fatty acids on the bioelectric and contractile activity of gastrointestinal smooth muscle tissues. Kristev A, et al. **Folia Med (Plovdiv)** 1996; 38(2):49–55

Cyclooxygenase-2 inhibitors: a new class of anti-inflammatory agents that spare the gastrointestinal tract. Masferrer JL, et al. **Gastroenterol Clin North Am** 1996 Jun;25(2):363–72 (35 ref.)

NSAIDs, gastrointestinal injury, and cytoprotection. Scheiman JM. **Gastroenterol Clin North Am** 1996 Jun; 25(2):279–98 (94 ref.)

Nonsteroidal anti-inflammatory drug and phospholipid prodrugs: combination therapy with antisecretory agents in rats [see comments] Lichtenberger LM, et al. **Gastroenterology** 1996 Oct;111(4):990–5. Comment in: Gastroenterology 1996 Oct;111(4):1145–7.

Nonmitogenic actions of growth factors: an integrated view of their role in intestinal physiology and pathophysiology. Uribe JM, et al. **Gastroenterology** 1997 Jan;112(1):255–68 (160 ref.)

Spasmogenic action of beta-lactam antibiotics on the gastrointestinal tract of experimental animals. Janković SM, et al. **Indian J Med Res** 1996 Sep;104:216–22

Recent Advances on NSAID and NSAID Gastropathy, 1st annual meeting. Ferrara, Italy, 6–7 December 1996. Proceedings. **Ital J Gastroenterol** 1996 Dec;28 Suppl 4:1–41

Interleukin-1 increases activity of the gastric vagal afferent nerve partly via stimulation of type A CCK receptor in anesthetized rats. Kurosawa M, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):72–8

Methods for assessing the effects of drugs on gastrointestinal function in patients and healthy volunteers. Smith JT. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):29S–33S (59 ref.)

Nonsteroidal anti-inflammatory drug-induced gastrointestinal toxicity: new insights into an old problem. Davies NM, et al. **J Gastroenterol** 1997 Feb;32(1):127–33 (89 ref.)

Neurotransmitter interactions in the stomatogastric system of the spiny lobster: one peptide alters the response of a central pattern generator to a second peptide. Dickinson PS, et al. **J Neurophysiol** 1997 Feb;77(2):599–610

The influence of polyethylene glycol conjugation on bovine hemoglobin's intrinsic effect on the gastrointestinal system of the rat. Conover CD, et al. **Life Sci** 1996;59(22):1861–9

Influence of growth hormone on cysteamine-induced gastro-duodenal lesions in rats: the involvement of somatostatin. Drago F, et al. **Life Sci** 1997;61(1):21–8

Effect of the C-terminal tetrapeptide amide of gastrin (CCK-4) and pancreatic polypeptide on gastrointestinal electrical activity in the conscious miniature pig. Wechsung E, et al. **Peptides** 1996;17(5):785–8

Gastrointestinal effects of NSAIDs. Difficulties in detection and management. Pearson SP, et al. **Postgrad Med** 1996 Nov;100(5):131–2, 135–6, 141–3 (20 ref.)

Gastrointestinal benefits of regional anesthesia/analgesia. Carpenter RL. **Reg Anesth** 1996 Nov–Dec;21(6 Suppl):13–7 (29 ref.)

Calcitonin gene-related peptide is a potent intestinal, but not gastric, vasodilator in conscious dogs. Nakamura T, et al. **Regul Pept** 1996 Sep 16;65(3):211–7

Gastrointestinal response and plasma and urine determinations in human subjects given erythritol. Bornet FR, et al. **Regul Toxicol Pharmacol** 1996 Oct;24(2 Pt 2):S296–302

Considerations for nonsteroidal anti-inflammatory drug therapy: safety. Blower AL. **Scand J Rheumatol Suppl** 1996; 105:13–24; discussion 25–7 (51 ref.)

The gastroenterologist's caseload: contribution of the rheumatologist. Hawkey CJ. **Semin Arthritis Rheum** 1997 Jun;26(6 Suppl 1):11–5 (13 ref.)

Drugs coordinating and restoring gastrointestinal motility and their effect on selected hypodynamic gastrointestinal disorders in horses and cattle. Steiner A, et al. **Zentralbl Veterinarmed A** 1995 Dec;42(10):613–31 (126 ref.)

[Effect of non-steroidal antirheumatic agents on the gastrointestinal tract: clinical aspects and pathophysiology] Bertschinger P, et al. **Schweiz Med Wochenschr** 1996 Sep 14;126(37):1566–8 (22 ref.) (Eng. Abstr.) **(Ger)**

[The effect of sodium nitrite on the functions of the gastrointestinal tract] Gozhenko AI, et al. **Gig Sanit** 1997 Mar–Apr;(2):39–41 **(Rus)**

[The effect of Val'kofen tablets for children on the function of the gastrointestinal tract and liver in an experiment] Shapovalova VO. **Fiziol Zh** 1995 Sep–Dec;41(5–6):111–6 (Eng. Abstr.) **(Ukr)**

EMBRYOLOGY

Nitric oxide modulates regional blood flow differences in the fetal gastrointestinal tract. Fan WQ, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G598–604

Activation of Met tyrosine kinase by hepatocyte growth factor is essential for internal organogenesis in Xenopus embryo. Aoki S, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):8–14

Gut reaction to Wnt signaling in worms [comment] Han M. **Cell** 1997 Aug 22;90(4):581–4 (16 ref.). Comment on: Cell 1997 Aug 22;90(4):695–705. Comment on: Cell 1997 Aug 22;90(4):707–16.

The mouse Nkx2-3 homeodomain gene is expressed in gut mesenchyme during pre- and postnatal mouse development. Pabst O, et al. **Dev Dyn** 1997 May; 209(1):29–35

Mutations affecting development of zebrafish digestive organs. Pack M, et al. **Development** 1996 Dec;123:321–8

Drosophila brachyenteron regulates gene activity and morphogenesis in the gut. Singer JB, et al. **Development** 1996 Dec;122(12):3707–18

Developmental expression and functionality of hepatocyte growth factor and c-Met in human fetal digestive tissues. Kermorgant S, et al. **Gastroenterology** 1997 May; 112(5):1635–47

Regulation of gastrointestinal growth in fetal sheep by luminally administered insulin-like growth factor-I. Trahair JF, et al. **J Endocrinol** 1997 Jan;152(1):29–38

Restriction of nutrition in utero selectively inhibits gastrointestinal growth in fetal sheep. Trahair JF, et al. **J Nutr** 1997 Apr;127(4):637–41

Aspects of gut development. Shaw-Smith C, et al. **Proc Nutr Soc** 1996 Mar;55(1B):519–27 (30 ref.)

ENZYMOLOGY

Colon-specific prodrugs of 5-radioiodo-2'-deoxyuridine. Baranowska-Kortylewicz J, et al. **Acta Oncol** 1996; 35(7):959–64

Aldehyde dehydrogenases of the rat colon: comparison with other tissues of the alimentary tract and the liver. Koivisto T, et al. **Alcohol Clin Exp Res** 1996 May;20(3):551–5

Expression of carbonic anhydrase isozymes (CA-I, CA-II, CA-III) during postnatal development of the rat gastrointestinal tract. Igarashi S, et al. **Anat Anz** 1996 Aug; 178(4):369–73

Localization of enzymes involved in metabolism of glycyrrhizin in contents of rat gastrointestinal tract. Akao T. **Biol Pharm Bull** 1997 Feb;20(2):122–6

Localization of protein kinase C alpha isoform expression in the human gastrointestinal tract. McGarrity TJ, et al. **Cell Growth Differ** 1996 Jul;7(7):953–9

Purification, kinetical and molecular characterizations of a serine collagenolytic protease from greenshore crag (Carcinus maenas) digestive gland. Roy P, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep; 115(1):87–95

Quantitative distributions of different cholinesterases and inhibition of acetylcholinesterase by metidathion and paraquat in alimentary canal of common carp. Láng G, et al. **Gen Pharmacol** 1997 Jul;29(1):55–9

Identification of endogenous peroxidase-containing cells as eosinophils in the gastrointestinal system. Hunyady B, et al. **Histochem Cell Biol** 1996 Nov;106(5):447–56

Detection of guanylate cyclases A and B stimulated by natriuretic peptides in gastrointestinal tract of rat. Rambotti MG, et al. **Histochem J** 1997 Feb;29(2):117–26

Morphological relations between haem oxygenases, NO-synthase and VIP in the canine and feline gastrointestinal tracts. Ny L, et al. **J Auton Nerv Syst** 1997 Jul 14;65(1):49–56

CYP2J subfamily cytochrome P450s in the gastrointestinal tract: expression, localization, and potential functional significance. Zeldin DC, et al. **Mol Pharmacol** 1997 Jun; 51(6):931–43

Rhodanese (thiosulfate: cyanide sulfurtransferase) in the digestive tract of chicken at different stages of development. Aminlari M, et al. **Poult Sci** 1997 Feb; 76(2):318–20

The role of Src family kinases in the normal and neoplastic gastrointestinal tract. Banker N, et al. **Surg Oncol** 1996 Oct–Dec;5(5–6):201–10 (92 ref.)

GROWTH & DEVELOPMENT

Stability of gastrin in the gastrointestinal lumen of suckling, weanling and adult pigs. Xu RJ, et al. **Biol Neonate** 1996; 70(1):60–8

The mesenchymal winged helix transcription factor Fkh6 is required for the control of gastrointestinal proliferation and differentiation. Kaestner KH, et al. **Genes Dev** 1997 Jun 15;11(12):1583–95

On the pattern of organ growth in the common tern (Sterna hirundo). Lilja C. **Growth Dev Aging** 1997 Spring;61(1):11–8

Molecular analysis of gastrointestinal smooth muscle development. McHugh KM. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):379–94 (97 ref.)

Development of gastrointestinal functions. Koldovský O, et al. **Physiol Res** 1995;44(6):341–8 (85 ref.)

Development of the newborn GI tract and its relation to colostrum/milk intake: a review. Xu RJ. **Reprod Fertil Dev** 1996;8(1):35–48 (123 ref.)

IMMUNOLOGY

Depressed splenic function after hemorrhage results from gastrointestinal tract stimulation of hepatic-mediator release. Correction with portacaval shunt. Ayala A, et al. **Arch Surg** 1996 Nov;131(11):1209–14; discussion 1215

Characterization of posttranslational modifications of human A33 antigen, a novel palmitoylated surface glycoprotein of human gastrointestinal epithelium. Ritter G, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):682–6

Aging and gastrointestinal immunity [letter; comment] Freda BJ. **Dig Dis Sci** 1997 Mar;42(3):694–5. Comment on: Dig Dis Sci 1996 Jun;41(6):1183–93.

Antimicrobial peptides in the gastrointestinal tract. Mahida YR, et al. **Gut** 1997 Feb;40(2):161–3

Accessory cells in the human gastrointestinal tract. MacDonald TT. **Histopathology** 1996 Jul;29(1):89–92 (30 ref.)

Generation of diversity in mammalian gut-associated lymphoid tissues: restricted V gene usage does not preclude complex V gene organization. Reynaud CA, et al. **J Immunol** 1997 Oct 1;159(7):3093–5 (18 ref.)

Gastrointestinal immune responses in HIV infected subjects. Castello-Branco LR, et al. **Mem Inst Oswaldo Cruz** 1996 May–Jun;91(3):363–6 (32 ref.)

Localization of cytochromes P450 in human tissues: implications for chemical toxicity. McKinnon RA, et al. **Pathology** 1996 May;28(2):148–55 (78 ref.)

Exogenous nucleotides and gastrointestinal immunity. Walker WA. **Transplant Proc** 1996 Oct;28(5):2438–41 (22 ref.)

Antigen presenting cells in the porcine gut. Stokes CR, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):171–7 (32 ref.)

GASTROINTESTINAL SYSTEM

INJURIES

Occult liver abscess following clinically unsuspected ingestion of foreign bodies. Tsui BC, et al. **Can J Gastroenterol** 1997 Jul–Aug;11(5):445–8

Blunt abdominal trauma in children: risks of nonoperative treatment. Sjövall A, et al. **J Pediatr Surg** 1997 Aug; 32(8):1169–74

Radiation injuries of the gastrointestinal tract. Saclarides TJ. **Surg Clin North Am** 1997 Feb;77(1):261–8 (31 ref.)

Incidence of stool guaiac conversion following extracorporeal shock wave lithotripsy. Bauer JJ, et al. **Urology** 1997 Aug;50(2):192–4

"Gut–tie" in steers [letter] Hunter F. **Vet Rec** 1997 Jul 12; 141(2):55

'Gut–tie" in steers [letter] Scott WA. **Vet Rec** 1997 Jul 12; 141(2):55

INNERVATION

Mechanical stimulation is not responsible for activation of gastrointestinal afferents during ischemia. Pan HL, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H99–106

Distribution and structure of vagal afferent intraganglionic laminar endings (IGLEs) in the rat gastrointestinal tract. Berthoud HR, et al. **Anat Embryol (Berl)** 1997 Feb; 195(2):183–91

Interplay of VIP and nitric oxide in the regulation of neuromuscular function in the gut. Murthy KS, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:355–62; discussion 362–3 (27 ref.)

Sensory–induced plasticity of motor pattern selection in the lobster stomatogastric nervous system. Nargeot R, et al. **Eur J Neurosci** 1997 Aug;9(8):1636–45

Distribution of serotonin–immunoreactive nerve cells and fibers in the rat gastrointestinal tract. Fujimiya M, et al. **Histochem Cell Biol** 1997 Feb;107(2):105–14

Gastrointestinal autonomic nerve tumours: a report of nine cases. Shanks JH, et al. **Histopathology** 1996 Aug; 29(2):111–21

The mammalian sympathetic prevertebral ganglia: integrative properties and role in the nervous control of digestive tract motility. Miolan JP, et al. **J Auton Nerv Syst** 1996 May 6;58(3):125–38 (78 ref.)

Afferent innervation of gastrointestinal tract smooth muscle by the hepatic branch of the vagus. Phillips RJ, et al. **J Comp Neurol** 1997 Jul 28;384(2):248–70

Somatostatin 2A receptor is expressed by enteric neurons, and by interstitial cells of Cajal and enterochromaffin–like cells of the gastrointestinal tract. Sternini C, et al. **J Comp Neurol** 1997 Sep 29;386(3):396–408

Characterization of antisera specific to NK1, NK2, and NK3 neurokinin receptors and their utilization to localize receptors in the rat gastrointestinal tract. Grady EF, et al. **J Neurosci** 1996 Nov 1;16(21):6975–86

Gut Interactions with Brain and Environment in Children. Proceedings of the 1st International Symposium on Pediatric NeuroGastroenterology. Capri, Italy, September 18–20, 1997. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S1–48

Autonomic gastroenteric disorders in children due to lesions of cranial nerve nuclei, spinal cord and peripheral innervation. Guzzetta F, et al. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S24–5

Distribution of vagal preganglionic neurons in the rat brain innervating thoracic and abdominal organs revealed by retrograde DiI tracing. Yao Y, et al. **Kaibogaku Zasshi** 1996 Dec;71(6):662–73

Gastrointestinal autonomic nerve tumors: immunohistochemical and ultrastructural studies in cases of gastrointestinal stromal tumor. Matsumoto K, et al. **Pathol Int** 1997 May;47(5):308–14

Heterogeneity of motilin receptors in the gastrointestinal tract of the rabbit. Poitras P, et al. **Peptides** 1996; 17(4):701–7

Pacemaker cells in the gastrointestinal tract: interstitial cells of Cajal. Rumessen JJ, et al. **Scand J Gastroenterol Suppl** 1996;216:82–94 (64 ref.)

Brain–gut interaction. Gué M, et al. **Semin Neurol** 1996 Sep; 16(3):235–43 (83 ref.)

In situ neural isolation of the entire canine upper gut: effects on fasting and fed motility patterns. Siadati MR, et al. **Surgery** 1997 Feb;121(2):174–81

[Inhibitory neuronal control of smooth muscle activity of the gastrointestinal tract] Hata F, et al. **Nippon Yakurigaku Zasshi** 1997 Feb;109(2):61–73 (51 ref.) (Eng. Abstr.) **(Jpn)**

[Multinuclear neurons in the ganglia of the gastrointestinal tract] Gaĭvoronskiĭ IV, et al. **Morfologiia** 1996;110(6):65–71 (Eng. Abstr.) **(Rus)**

METABOLISM

Acute growth hormone injection reduced gastrointestinal and increased hepatic oleic acid oxidation in swine. Unneberg K, et al. **Acta Physiol Scand** 1996 Nov;158(3):261–8

Activity in the gastrointestinal tract after administration of bone–seeking radiopharmaceuticals. Experimental studies in mice. Cronhjort M, et al. **Acta Radiol** 1996 Sep; 37(5):785–90

Ethanol metabolism in the gastrointestinal tract and its possible consequences. Seitz HK, et al. **Alcohol Alcohol Suppl** 1994;2:157–62 (47 ref.)

Strengths and limitations of the Crohn's disease activity index, revealed by an objective gut lavage test of gastrointestinal protein loss. Acciuffi S, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):321–6

Maldigestion and colonic fermentation of wheat bread in humans and the influence of dietary fat. Olesen M, et al. **Am J Clin Nutr** 1997 Jul;66(1):62–6

Cellular localization of mRNAs for prostaglandin E receptor subtypes in mouse gastrointestinal tract. Morimoto K, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G681–7

Gastrointestinal tract protein synthesis and mRNA levels for proteolytic systems in adult fasted rats. Samuels SE, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E232–8

Biosynthesis of mucins (MUC2–6) along the longitudinal axis of the human gastrointestinal tract. Van Klinken BJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G296–302

Both growth hormone and exogenous glutamine increase gastrointestinal glutamine uptake in trauma. Unneberg K, et al. **Ann Surg** 1997 Jan;225(1):97–102

Reduction of gastrointestinal serotonin in alloxan–diabetic rats: reversal by 5–hydroxytryptophan treatment. Cićin–Sain L, et al. **Behav Brain Res** 1996;73(1–2):285–8

Interaction of immobilised food dye residues with gut proteins. Jervis L. **Biochem Soc Trans** 1996 Aug;24(3):395S

Solubilisation of ferulic acid from plant cell wall materials in a model human gut system. Kroon PA, et al. **Biochem Soc Trans** 1996 Aug;24(3):384S

Possible effects of placental leucine aminopeptidase on the regulation of brain–gut hormones in the fetoplacental unit. Mizutani S, et al. **Biol Neonate** 1996;69(5):307–17

Stability of gastrin in the gastrointestinal lumen of suckling, weanling and adult pigs. Xu RJ, et al. **Biol Neonate** 1996; 70(1):60–8

Evaluation of the fractional absorption of D–xylose by analysis of gastrointestinal disposition after oral administration in rats. Yuasa H, et al. **Biol Pharm Bull** 1996 Apr;19(4):604–7

Gastrointestinal absorption of aluminum is increased in Down's syndrome. Moore PB, et al. **Biol Psychiatry** 1997 Feb 15;41(4):488–92

Pinealectomy reduces melatonin levels in the serum but not in the gastrointestinal tract of rats. Bubenik GA, et al. **Biol Signals** 1997 Jan–Feb;6(1):40–4

Enteric neurons express Steel factor–lacZ transgene in the murine gastrointestinal tract. Torihashi S, et al. **Brain Res** 1996 Nov 4;738(2):323–8

Opioid receptor expression in the rat gastrointestinal tract: a quantitative study with comparison to the brain. Fickel J, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):1–8

Distribution of neurokinin–2 receptors in the guinea–pig gastrointestinal tract. Portbury AL, et al. **Cell Tissue Res** 1996 Dec;286(3):281–92

Peculiarities of the cellular ion–transport function of the gastrointestinal tract in hypertensive rats. Smirnov Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S218–9

Is monoacylglycerol as an intermediate of triacylglycerol digestion absorbed by Aeshna cyanea larvae? Komnick H, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jul;114(3):233–43

Effects of adrenalectomy on serotonin–, somatostatin–, and gastrin–immunoreactive cells in rat gastrointestinal tract. Glória H, et al. **Dig Dis Sci** 1997 Jun;42(6):1216–20

Tachykinins stimulate lipid peroxidation mediated by free radicals in gastrointestinal tract of rat. Lördal M, et al. **Dig Dis Sci** 1997 Jul;42(7):1524–9

Distribution of beta–adrenoceptor subtypes in gastrointestinal tract of nondiabetic and diabetic BB rats. A longitudinal study. Yu O, et al. **Dig Dis Sci** 1997 Jun;42(6):1146–53

Influence of carcinogen binding by lactic acid–producing bacteria on tissue distribution and in vivo mutagenicity of dietary carcinogens. Bolognani F, et al. **Food Chem Toxicol** 1997 Jun;35(6):535–45

Introduction to eicosanoids and the gastroenteric tract. DuBois RN, et al. **Gastroenterol Clin North Am** 1996 Jun; 25(2):267–77 (41 ref.)

Distribution of somatostatin receptor messenger RNAs in the rat gastrointestinal tract. Krempels K, et al. **Gastroenterology** 1997 Jun;112(6):1948–60

Uroguanylin is expressed by enterochromaffin cells in the rat gastrointestinal tract [see comments] Perkins A, et al. **Gastroenterology** 1997 Sep;113(3):1007–14. Comment in: Gastroenterology 1997 Sep;113(3):1036–8.

Gastrointestinal permeability in celiac disease. Smecuol E, et al. **Gastroenterology** 1997 Apr;112(4):1129–36

Differential induction of prehepatic and hepatic metabolism of verapamil by rifampin. Fromm MF, et al. **Hepatology** 1996 Oct;24(4):796–801

Enteropathogenic Escherichia coli protein secretion is induced in response to conditions similar to those in the gastrointestinal tract. Kenny B, et al. **Infect Immun** 1997 Jul;65(7):2606–12

Chromium, copper, iron, manganese, selenium and zinc levels in dairy products: in vitro study of absorbable fractions. Cabrera C, et al. **Int J Food Sci Nutr** 1996 Jul;47(4):331–9

Glutamine: the link between depletion and diminished gut function? [editorial; comment] Soeters PB. **J Am Coll Nutr** 1996 Jun;15(3):195–6. Comment on: J Am Coll Nutr 1996 Jun;15(3):199–205.

Plasma flow and net nutrient flux across gut and liver of cattle fed twice daily. Whitt J, et al. **J Anim Sci** 1996 Oct; 74(10):2450–61

Heterogeneity of gut capillary transit times and impaired gut oxygen extraction in endotoxemic pigs. Humer MF, et al. **J Appl Physiol** 1996 Aug;81(2):895–904

Co–distribution of calmodulin–dependent protein kinase II and inositol trisphosphate receptors in an apical domain of gastrointestinal mucosal cells. Matovcik LM, et al. **J Histochem Cytochem** 1996 Nov;44(11):1243–50

Characterization of the human apobec–1 gene: expression in gastrointestinal tissues determined by alternative splicing with production of a novel truncated peptide. Hirano K, et al. **J Lipid Res** 1997 May;38(5):847–59

Gas chromatography/combustion/isotope ratio mass spectrometric comparison of N–acetyl– and N–pivaloyl amino acid esters to measure 15N isotopic abundances in physiological samples: a pilot study on amino acid synthesis in the upper gastro–intestinal tract of minipigs. Metges CC, et al. **J Mass Spectrom** 1996 Apr;31(4):367–76

Differentiation of ingested and endogenous bifidobacteria by DNA fingerprinting demonstrates the survival of an unmodified strain in the gastrointestinal tract of humans. Kullen MJ, et al. **J Nutr** 1997 Jan;127(1):89–94

Sucrose––how sweet is it? [editorial; comment] Meddings J. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):621–2. Comment on: J Pediatr Gastroenterol Nutr 1997 May;24(5):506–11.

Control of poorly soluble drug dissolution in conditions simulating the gastrointestinal tract flow. 2. Cocompression of drugs with buffers. Chakrabarti S, et al. **J Pharm Sci** 1997 Apr;86(4):465–9

Diffusion of drugs in native and purified gastrointestinal mucus. Larhed AW, et al. **J Pharm Sci** 1997 Jun;86(6):660–5

Melatonin concentrations in serum and tissues of porcine gastrointestinal tract and their relationship to the intake and passage of food. Bubenik GA, et al. **J Pineal Res** 1996 Nov;21(4):251–6

Gastrointestinal, hepatic, and metabolic effects of enteral and parenteral nutrition in rats infused with tumor necrosis factor. Raina N, et al. **JPEN J Parenter Enteral Nutr** 1997 Jan–Feb;21(1):7–13

D–lactic acidosis: turning sugar into acids in the gastrointestinal tract. Halperin ML, et al. **Kidney Int** 1996 Jan;49(1):1–8 (75 ref.)

Stable–isotope method for determining the gastrointestinal handling of [1–13C]palmitic acid. Stolinski M, et al. **Lipids** 1997 Mar;32(3):337–40

Noninvasive measurement of the pH inside the gut by using pH–sensitive nitroxides. An in vivo EPR study. Gallez B, et al. **Magn Reson Med** 1996 Nov;36(5):694–7

Gender–related regional antioxidant profiles in the gastrointestinal tract of the rat. Moghadasian MH, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):43–9

Expression of prepro–VIP derived peptides in the gastrointestinal tract of normal, hypothyroid and hyperthyroid rats. Buhl T, et al. **Neuropeptides** 1996 Jun; 30(3):237–47

Comparison of the spatial distribution of endopeptidase–24.11 with substance P, substance P receptor (NK–1r) and gastric efferent neurons in the dorsal vagal complex of the rat. Ladic L, et al. **Neurosci Lett** 1997 Jan 24;222(1):41–4

The interrelationship of the liver and gut [editorial; comment] Delany HM. **Nutrition** 1996 Jan;12(1):54–5. Comment on: Nutrition 1996 Jan;12(1):30–5.

Enteral versus parenteral nutrition: effects on gastrointestinal function and metabolism. Suchner U, et al. **Nutrition** 1996 Jan;12(1):13–22

Metallothionein: a potential marker for differentiating benign and neoplastic gastrointestinal lymphoid infiltrates. Rizkalla KS, et al. **Pathology** 1997 May;29(2):141–6

Hepatic and gastrointestinal oxygen and lactate metabolism during low cardiac output in lambs. Fahey JT, et al. **Pediatr Res** 1997 Jun;41(6):842–51

Heterogeneity of motilin receptors in the gastrointestinal tract of the rabbit. Poitras P, et al. **Peptides** 1996; 17(4):701–7

Simultaneous in vivo visualization and localization of solid oral dosage forms in the rat gastrointestinal tract by magnetic resonance imaging (MRI). Christmann V, et al. **Pharm Res** 1997 Aug;14(8):1066–72

Cell stress–regulated human major histocompatibility complex class I gene expressed in gastrointestinal epithelium. Groh V, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12445–50

The use of 14C–labelled substrates to study plant cell wall breakdown in the gastrointestinal tract. Buchanan CJ, et al. **Proc Nutr Soc** 1996 Nov;55(3):927–36 (39 ref.)

Nitrogen metabolism in gastrointestinal tissue of the pig. van der Meulen J, et al. **Proc Nutr Soc** 1997 Jul;56(2):535–45 (71 ref.)

Distribution of prostaglandin E receptors in the rat gastrointestinal tract. Ding M, et al. **Prostaglandins** 1997 Mar;53(3):199–216

Adrenomedullin: localization in the gastrointestinal tract and effects on insulin secretion. Mulder H, et al. **Regul Pept** 1996 Apr 23;62(2–3):107–12

The elimination of secretory leukocyte protease inhibitor (SLPI) from the gastrointestinal tract in man. Nyström M, et al. **Scand J Clin Lab Invest** 1997 Apr;57(2):119–25

Endogenous prostaglandins and microflora modulate DNA synthesis and neuroendocrine peptides in the rat gastrointestinal tract. Uribe A, et al. **Scand J Gastroenterol** 1997 Jul;32(7):691–9

Desmopressin tablet treatment: factors influencing gastrointestinal absorption. Rittig S, et al. **Scand J Urol Nephrol Suppl** 1997;183:51–2

Human ingestion of chromium (VI) in drinking water: pharmacokinetics following repeated exposure. Finley BL, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):151–9

Lack of volatilization and escape of orally administered trichloroethylene from the gastrointestinal tract of rats. Lee KM, et al. **Toxicol Ind Health** 1997 Jan–Feb;13(1):81–9

[Nitrogen monoxide (NO) in the function of the gastrointestinal tract and the liver] Palatka K, et al. **Orv Hetil** 1997 Jun 15;138(24):1555–9 (51 ref.) (Eng. Abstr.) **(Hun)**

[Molecular biology of transporters in GI tracts] Ishibashi K, et al. **Nippon Rinsho** 1996 Apr;54(4):1122–9 (56 ref.) (Eng. Abstr.) **(Jpn)**

[The pharmacokinetic characteristics of theophylline in patients with chronic nonspecific intestinal diseases in relation to its routes of administration into the gastrointestinal tract] Kukes VG, et al. **Ter Arkh** 1993; 65(2):52–4 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Major pathways of mucosal immunity and inflammation: cell activation, cytokine production and the role of bacterial factors. James SP, et al. **Aliment Pharmacol Ther** 1996;10 Suppl 2:1–9 (52 ref.)

New model of oropharyngeal and gastrointestinal colonization by Candida albicans in CD4+ T-cell-deficient mice for evaluation of antifungal agents. Flattery AM, et al. **Antimicrob Agents Chemother** 1996 Jul; 40(7):1604–9

Effects of cyclophosphamide and ceftriaxone on gastrointestinal colonization of mice by Candida albicans. Samonis G, et al. **Antimicrob Agents Chemother** 1996 Sep; 40(9):2221–3

Gastrointestinal tract colonization with vancomycin-resistant Enterococcus faecium in an animal model. Whitman MS, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1526–30

Microbial amino acid synthesis and utilization in rats: incorporation of 15N from 15NH4Cl into lysine in the tissues of germ-free and conventional rats. Torrallardona D, et al. **Br J Nutr** 1996 Nov;76(5):689–700

Microbial amino acid synthesis and utilization in rats: the role of coprophagy. Torrallardona D, et al. **Br J Nutr** 1996 Nov;76(5):701–9

Gut barrier function in the surgical patient. Reynolds JV. **Br J Surg** 1996 Dec;83(12):1668–9

N-nitrosation of medicinal drugs catalysed by bacteria from human saliva and gastro-intestinal tract, including Helicobacter pylori. Ziebarth D, et al. **Carcinogenesis** 1997 Feb;18(2):383–9

Colonization with antibiotic-resistant gram-negative organisms in a pediatric intensive care unit. Toltzis P, et al. **Crit Care Med** 1997 Mar;25(3):538–44

A new urea broth-based test to detect Helicobacter pylori presence in upper gastrointestinal biopsies. Weiss K, et al. **Diagn Microbiol Infect Dis** 1996 Feb;24(2):61–4

Gastrointestinal colonisation of BALB/cA mice by Helicobacter pylori monitored by heparin magnetic separation. Aleljung P, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):303–9

Colonization of congenitally immunodeficient mice with probiotic bacteria. Wagner RD, et al. **Infect Immun** 1997 Aug;65(8):3345–51

Assessment of alimentary exposure to Listeria monocytogenes. Hitchins AD. **Int J Food Microbiol** 1996 Jun;30(1–2):71–85

Selective decontamination of the digestive tract: 13 years on, what it is and what it is not. Baxby D, et al. **Intensive Care Med** 1996 Jul;22(7):699–706 (44 ref.)

Enteric bacteria: friend or foe? Batt RM, et al. **J Small Anim Pract** 1996 Jun;37(6):261–7 (39 ref.)

The effects of vagotomy on bacterial translocation: an experimental study. Do M, et al. **J Surg Res** 1997 Aug; 71(2):166–71

Selective growth of thermostable direct hemolysin-producing Vibrio parahaemolyticus in the alimentary tract of a gastropod, Clithon retropictus, at a selected estuary in Japan. Kumazawa NH, et al. **J Vet Med Sci** 1996 Sep;58(9):921–3

Persistence of vancomycin-resistant Enterococcus faecium gastrointestinal tract colonization in antibiotic-treated mice. Dever LL, et al. **Microb Drug Resist** 1996 Winter; 2(4):415–21

Effect of early nutritional deprivation and diet on translocation of bacteria from the gastrointestinal tract in the newborn rat. Steinwender G, et al. **Pediatr Res** 1996 Mar;39(3):415–20

Metabolism of azetirelin, a new thyrotropin-releasing hormone (TRH) analogue, by intestinal microorganisms. Sasaki I, et al. **Pharm Res** 1997 Aug;14(8):1004–7

Endogenous prostaglandins and microflora modulate DNA synthesis and neuroendocrine peptides in the rat gastrointestinal tract. Uribe A, et al. **Scand J Gastroenterol** 1997 Jul;32(7):691–9

Mycological aspects of gastrointestinal microflora. Bernhardt H, et al. **Scand J Gastroenterol Suppl** 1997;222:102–6

Germ-free and conventional animal models for intestinal carbohydrate disposition. Midtvedt T. **Scand J Gastroenterol Suppl** 1997;222:25–7

Microflora-associated defense stimulating factors. Pulverer G, et al. **Scand J Gastroenterol Suppl** 1997;222:107–11 (41 ref.)

The indigenous gastrointestinal microflora. Berg RD. **Trends Microbiol** 1996 Nov;4(11):430–5 (35 ref.)

Animal reservoirs of Escherichia coli O157:[H7] Beutin L, et al. **Vet Rec** 1996 Jul 20;139(3):70–1

[Fungi in feces, fungi in the intestines—therapeutic consequences?] Rösch W. **Versicherungsmedizin** 1996 Dec 1;48(6):215–7 (4 ref.) (Eng. Abstr.) **(Ger)**

[Colonization of methicillin-resistant Staphylococcus aureus in the mouse intestinal tract] Tani K. **Nippon Saikingaku Zasshi** 1997 Apr;52(2):493–503 (Eng. Abstr.) **(Jpn)**

[Early stages of development of infectious process and two-faced role of normal microflora] Bondarenko VM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):7–10 (34 ref.) **(Rus)**

[Problems in drug prevention and treatment of endogenous infection and dysbacteriosis] Melnikova VM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):26–9 (21 ref.) (Eng. Abstr.) **(Rus)**

[Dysbacteriosis: topical medical problem] Vorobév AA, et al. **Vestn Ross Akad Med Nauk** 1997;(3):4–7 (3 ref.) **(Rus)**

[Criteria for selection of lactobacilli for probiotic use] Nemcová R. **Vet Med (Praha)** 1997 Jan;42(1):19–27 (84 ref.) (Eng. Abstr.) **(Slo)**

[Gastrointestinal bacteriology of the earthworm Eisenia foetida grown in composted broiler litter] Finola M, et al. **Rev Argent Microbiol** 1995 Oct–Dec;27(4):210–3 (Eng. Abstr.) **(Spa)**

PARASITOLOGY

Study on the gastrointestinal parasite fauna of ponies in northern Germany. Cirak VY, et al. **Appl Parasitol** 1996 Dec;37(4):239–44

Effect of rotational vs continuous intensive stocking of bahiagrass on performance of Angus cows and calves and interaction with sire type on gastrointestinal nematode burden. Hammond AC, et al. **J Anim Sci** 1997 Sep; 75(9):2291–9

A checklist of helminths from the respiratory system and gastrointestinal tracts of African Anatidae. Alexander SJ, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):5–16

Observations on the epidemiology of gastrointestinal nematodes of farmed red deer in central southern England [published erratum appears in Vet Rec 1996 Sep 28;139(13):321] Connan RM. **Vet Rec** 1996 Sep 7; 139(10):228–32

Control of gastrointestinal nematodes in calves by prophylactic treatments with doramectin and ivermectin. Vercruysse J, et al. **Vet Rec** 1996 Nov 30;139(22):547–8

[Gastrointestinal parasitism in the common partridge (Nothoprocta perdicaria) in the Nuble Zone, Chile] Rubilar L, et al. **Bol Chil Parasitol** 1996 Jan–Jun;51(1–2):35–7 (Eng. Abstr.) **(Spa)**

PATHOLOGY

MR imaging of the gastrointestinal tract with i.v., gadolinium and diluted barium oral contrast media compared with unenhanced MR imaging and CT. Low RN, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1051–9

Are patients who undergo open-access endoscopy more anxious about their procedures than patients referred from the GI clinic? [see comments] Mahajan RJ, et al. **Am J Gastroenterol** 1996 Dec;91(12):2505–8. Comment in: Am J Gastroenterol 1997 Aug;92(8):1403–4.

Necrosis of the gastrointestinal tract in uremic patients as a result of sodium polystyrene sulfonate (Kayexalate) in sorbitol: an underrecognized condition. Rashid A, et al. **Am J Surg Pathol** 1997 Jan;21(1):60–9

Gastrointestinal pathology in patients with common variable immunodeficiency and X-linked agammaglobulinemia. Washington K, et al. **Am J Surg Pathol** 1996 Oct; 20(10):1240–52

Mutations affecting development of zebrafish digestive organs. Pack M, et al. **Development** 1996 Dec;123:321–8

Measurement of lesions by endoscopy: an overview. Vakil N. **Endoscopy** 1995 Nov;27(9):694–7 (20 ref.)

A correlative study of histology and imprint cytology in the diagnosis of gastrointestinal tract malignancies. Sharma P, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):139–46

Aluminum phosphide ingestion—a clinico-pathologic study. Singh S, et al. **J Toxicol Clin Toxicol** 1996;34(6):703–6

Insulin-like growth factor 1 has beneficial effects, whereas growth hormone has limited effects on postoperative protein metabolism, gut integrity, and splenic weight in rats with chronic mild liver injury. Inaba T, et al. **JPEN J Parenter Enteral Nutr** 1997 Mar–Apr;21(2):55–62

High-density oral barium sulfate in abdominal MRI: efficacy and tolerance in a clinical setting. Burton SS, et al. **Magn Reson Imaging** 1997;15(2):147–53

Gastrointestinal tract. Goldstein NS, et al. **Pathology (Phila)** 1996;3(2):349–65 (65 ref.)

Endoscopic and pathomorphologic findings in the gastrointestinal tract (GI) in patients with food allergy. Grzybowska K, et al. **Rocz Akad Med Bialymst** 1995; 40(3):512–9

Diffuse leiomyomatosis of the gastrointestinal tract in a single patient—esophagus to rectum: case report. Sell HW Jr, et al. **Surgery** 1997 Sep;122(3):637–40

Indication for small bowel transplantation in children with gastrointestinal pathology on long-term parenteral nutrition. Gambarara M, et al. **Transplant Proc** 1996 Oct; 28(5):2706–7

[Tenascin expression in activated lymphatic cells and gastrointestinal tracts] Back W, et al. **Verh Dtsch Ges Pathol** 1996;80:326 **(Ger)**

[Who needs a gastroenterology pathologist? (editorial)] Rugge M, et al. **Pathologica** 1996 Oct;88(5):359–60; discussion 361 **(Ita)**

[Syndrome of multiple neoplasia type IIB (MEN IIB): a case report] Alpera Lacruz R, et al. **An Esp Pediatr** 1996 Oct; 45(4):421–4 **(Spa)**

PHYSIOLOGY

Fiber-supplemented enteral formula slows intestinal transit by intensifying inhibitory feedback from the distal gut. Lin HC, et al. **Am J Clin Nutr** 1997 Jun;65(6):1840–4

Improved localizing method of radiopill in measurement of entire gastrointestinal pH profiles: colonic luminal pH in normal subjects and patients with Crohn's disease. Sasaki Y, et al. **Am J Gastroenterol** 1997 Jan;92(1):114–8

Chemical lesion of visceral afferents causes transient overconsumption of unfamiliar high-fat diets in rats. Chavez M, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1657–63

Structure and function of the gastrointestinal tract of the Florida manatee, Trichechus manatus latirostris. Reynolds JE 3rd, et al. **Anat Rec** 1996 Jul;245(3):539–58

Fat digestion in the neonate. Manson WG, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 May;76(3):F206–11 (49 ref.)

Is nitric oxide involved in 5-HT-induced fluid secretion in the gut? Kadowaki M, et al. **Behav Brain Res** 1996; 73(1–2):293–6

Gastrointestinal physiology-regulated dogs for bioavailability evaluation of an oral controlled-release dosage form composed of pulsatile release granules. Sagara K, et al. **Biol Pharm Bull** 1996 Sep;19(9):1184–8

The digestive strategy of the common marmoset, Callithrix jacchus. Caton JM, et al. **Comp Biochem Physiol A Physiol** 1996 May;114(1):1–8

Brain-Gut Interactions in Normal and Disordered States. Island of Brac, Supetar, Croatia, September 6–8, 1997. Abstracts. **Dig Dis Sci** 1997 Aug;42(8):1811–20

Barostat review [letter] Roelofs JM, et al. **Dig Dis Sci** 1997 Sep;42(9):1957–8

Standardization of barostat procedures for testing smooth muscle tone and sensory thresholds in the gastrointestinal tract. The Working Team of Glaxo-Wellcome Research, UK. Whitehead WE, et al. **Dig Dis Sci** 1997 Feb; 42(2):223–41

Development of gastrointestinal functions in the foal: what can we learn from studies on man and experimental animals? Koldovsky O. **Equine Vet J Suppl** 1993 Apr; (14):23–5 (33 ref.)

The pharmacology of the emetic response to upper gastrointestinal tract stimulation in Suncus murinus. Andrews P, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):305–13

Attention and distraction: effects on gut perception. Accarino AM, et al. **Gastroenterology** 1997 Aug;113(2):415–22

Modeling ruminant feed intake with protein, chemostatic, and distention feedbacks. Fisher DS. **J Anim Sci** 1996 Dec; 74(12):3076–81 (13 ref.)

Bioactive peptides in digesta that regulate gastrointestinal function and intake. Froetschel MA. **J Anim Sci** 1996 Oct; 74(10):2500–8 (87 ref.)

Comparative ruminal and total tract digestion of a finishing diet containing fresh vs air-dry steam-flaked corn. Zinn RA, et al. **J Anim Sci** 1997 Jul;75(7):1704–7

Isopower mapping of the electrogastrogram (EGG). Homma S. **J Auton Nerv Syst** 1997 Feb 17;62(3):163–6

The mammalian sympathetic prevertebral ganglia: integrative properties and role in the nervous control of digestive tract motility. Miolan JP, et al. **J Auton Nerv Syst** 1996 May 6;58(3):125–38 (78 ref.)

Lactoferrin as a suppressor of cell migration of gastrointestinal cell lines. Nakajima M, et al. **J Cell Physiol** 1997 Feb;170(2):101–5

TNRNFLRFamide and SDRNFLRFamide modulate muscles of the stomatogastric system of the crab Cancer borealis. Jorge-Rivera JC, et al. **J Comp Physiol [A]** 1996 Dec;179(6):741–51

Phase maintenance in the pyloric pattern of the lobster (Panulirus interruptus) stomatogastric ganglion. Hooper SL. **J Comput Neurosci** 1997 Jul;4(3):191–205

Temporal dynamics of graded synaptic transmission in the lobster stomatogastric ganglion. Manor Y, et al. **J Neurosci** 1997 Jul 15;17(14):5610–21

Muscle response to changing neuronal input in the lobster (Panulirus interruptus) stomatogastric system: spike number- versus spike frequency-dependent domains. Morris LG, et al. **J Neurosci** 1997 Aug 1;17(15):5956–71

Enteric bacteria: friend or foe? Batt RM, et al. **J Small Anim Pract** 1996 Jun;37(6):261–7 (39 ref.)

1997 Harry M. Vars Research Award. Does the route of feeding modify gut barrier function and clinical outcome in patients after major upper gastrointestinal surgery? Reynolds JV, et al. **JPEN J Parenter Enteral Nutr** 1997 Jul–Aug;21(4):196–201

Gastrointestinal permeability following aspirin intake and prolonged running. Ryan AJ, et al. **Med Sci Sports Exerc** 1996 Jun;28(6):698–705

Use of echo planar imaging to demonstrate the effect of posture on the intragastric distribution and emptying of

an oil/water meal. Boulby P, et al.
Neurogastroenterol Motil 1997 Mar;9(1):41–7

Biomechanics of the gastrointestinal tract. Gregersen H, et al. **Neurogastroenterol Motil** 1996 Dec;8(4):277–97 (132 ref.)

High resolution electrical mapping in the gastrointestinal system: initial results. Lammers WJ, et al.
Neurogastroenterol Motil 1996 Sep;8(3):207–16

Intraluminal micromanometry: an evaluation of the dynamic performance of micro–extrusions and sleeve sensors. Omari T, et al. **Neurogastroenterol Motil** 1996 Sep;8(3):241–5

Functional effects of food components and the gastrointestinal system: chicory fructooligosaccharides. Roberfroid MB. **Nutr Rev** 1996 Nov;54(11 Pt 2):S38–42 (20 ref.)

Effect of destruction force on drug release from multiple unit controlled release dosage forms in humans. Katori N, et al. **Pharm Res** 1996 Oct;13(10):1541–6

Tachykinins in the gut. Part II. Roles in neural excitation, secretion and inflammation. Holzer P, et al.
Pharmacol Ther 1997;73(3):219–63 (539 ref.)

The influence of environmental temperature on in vivo limestone solubilization, feed passage rate, and gastrointestinal pH in laying hens. Gordon RW, et al.
Poult Sci 1997 May;76(5):683–8

Effect of aging on the gastrointestinal tract and the pancreas. Majumdar AP, et al. **Proc Soc Exp Biol Med** 1997 Jun; 215(2):134–44 (138 ref.)

The gastrointestinal tract and the lungs. Similarities with particular emphasis on the neuroendocrine cells. Waldum HL, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Mar; 13(1):63–5 (41 ref.)

Gene expression profiles in normal and cancer cells. Zhang L, et al. **Science** 1997 May 23;276(5316):1268–72

The gut in critical illness: evidence from human studies. Marshall JC, et al. **Shock** 1996;6 Suppl 1:S10–6 (92 ref.)

Healing in the gastrointestinal tract. Thornton FJ, et al.
Surg Clin North Am 1997 Jun;77(3):549–73 (186 ref.)

[The involvement of prostaglandins in the inhibiting effect of endotoxin on the myoelectric activity of the gastrointestinal system in pigs] Wechsung E.
Verh K Acad Geneeskd Belg 1996;58(6):711–38 (Eng. Abstr.) **(Dut)**

[Effects of peptide YY on functions of the gastrointestinal tract] Niebergall-Roth E, et al.
DTW Dtsch Tierarztl Wochenschr 1997 Mar;104(3):108–13 (Eng. Abstr.) **(Ger)**

[Molecular approach for analyses of gut function: an overview] Kamada T, et al. **Nippon Rinsho** 1996 Apr; 54(4):897–905 (23 ref.) (Eng. Abstr.) **(Jpn)**

[New development in study of gastrointestinal motility] Nishi K, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):172–4 (0 ref.) **(Jpn)**

[Current clinical gastroenterology and digestive physiology (the problems of regulation)] Klimov PK.
Vestn Ross Akad Med Nauk 1996;(1):6–10 (13 ref.) (Eng. Abstr.) **(Rus)**

[The intracellular signal systems of the smooth muscles in the gastrointestinal tract] Medvedev MA, et al.
Vestn Ross Akad Med Nauk 1996;(1):21–9 (33 ref.) (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Gastrointestinal involvement in neurologic disorders: Stiff-man and Charcot-Marie-Tooth syndromes. Soykan I, et al. **Am J Med Sci** 1997 Jan;313(1):70–3

Recovery of gastrointestinal tract motility and myoelectric activity change after abdominal surgery. Hotokezaka M, et al. **Arch Surg** 1997 Apr;132(4):410–7

Prevention of remote organ injury in cardiopulmonary bypass: the impact of flow generation technique. Hyde JA, et al. **Artif Organs** 1997 Jul;21(7):825–9

Gastro-intestinal toxicity related to bone marrow transplantation: disruption of the intestinal barrier precedes clinical findings. Johansson JE, et al.
Bone Marrow Transplant 1997 May;19(9):921–5

Congenital heterotopic gastrointestinal cyst of the oral cavity in a neonate: case report and review of literature. Morgan WE, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jun; 36(1):69–77

A study of problems associated with the delivery of enteral feed in critically ill patients in five ICUs in the UK [see comments] Adam S, et al. **Intensive Care Med** 1997 Mar; 23(3):261–6. Comment in: Intensive Care Med 1997 Mar;23(3):246–7.

Gastrointestinal tract function and malnutrition in HIV-infected children. Winter H. **J Nutr** 1996 Oct;126(10 Suppl):2620S–2622S (20 ref.)

Cerebral palsy and gut functions. Del Giudice E.
J Pediatr Gastroenterol Nutr 1997;25 Suppl 1:S22–3

Gastrointestinal pH, motility/transit and permeability in cystic fibrosis. Gregory PC.
J Pediatr Gastroenterol Nutr 1996 Dec;23(5):513–23 (112 ref.)

Prevalence of Helicobacter pylori antibodies in children in Bloemfontein, South Africa. Pelser HH, et al.
J Pediatr Gastroenterol Nutr 1997 Feb;24(2):135–9

Food hypersensitivity in 20 dogs with skin and gastrointestinal signs. Paterson S. **J Small Anim Pract** 1995 Dec;36(12):529–34

The gut-brain brain-gut axis in anorexia: toward an understanding of food intake regulation. Meguid MM, et al. **Nutrition** 1996 Jan;12(1 Suppl):S57–62 (44 ref.)

Trauma and the gastrointestinal tract. Adedji OA, et al.
Postgrad Med J 1996 May;72(847):315–6

Stunting syndrome in broilers: effect of glucose or maltose supplementation on digestive organs, intestinal disaccharidases, and some blood metabolites. Shapiro F, et al. **Poult Sci** 1997 Feb;76(2):369–80

Gastrointestinal symptoms in myotonic dystrophy. Rönnblom A, et al. **Scand J Gastroenterol** 1996 Jul;31(7):654–7

Gastrointestinal dysfunction in autonomic neuropathy. Chelimsky G, et al. **Semin Neurol** 1996 Sep;16(3):259–68 (85 ref.)

Gastrointestinal dysfunction in multiple system atrophy. Mathias CJ. **Semin Neurol** 1996 Sep;16(3):251–8 (44 ref.)

Gastrointestinal dysfunction in Parkinson's disease. Quigley EM. **Semin Neurol** 1996 Sep;16(3):245–50 (58 ref.)

Gastrointestinal dysfunction in stroke. Ullman T, et al.
Semin Neurol 1996 Sep;16(3):269–75 (54 ref.)

[Ethanol and the gastrointestinal tract] Mincis M, et al.
Arq Gastroenterol 1995 Jul–Sep;32(3):131–9 (96 ref.) (Eng. Abstr.) **(Por)**

RADIATION EFFECTS

Radiation change in normal organs: an overview of body imaging. Libshitz HI, et al. **Eur Radiol** 1996;6(6):786–95 (82 ref.)

Low acute gastrointestinal and genitourinary toxicities in whole pelvic irradiation of prostate cancer. Liu L, et al.
Int J Radiat Oncol Biol Phys 1997 Apr 1;38(1):65–71

Late GI and GU complications in the treatment of prostate cancer. Schultheiss TE, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 1;37(1):3–11

Angiotensin converting enzyme inhibitor captopril does not prevent acute gastrointestinal radiation damage in the rat. Moulder JE, et al. **Radiat Oncol Investig** 1997;5(2):50–3

Radiation injuries of the gastrointestinal tract. Saclarides TJ.
Surg Clin North Am 1997 Feb;77(1):261–8 (31 ref.)

RADIOGRAPHY

Evaluation of a low-density gastrointestinal contrast agent: effect on computed tomography angiography. Alexander D, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S432–4

MR imaging of the gastrointestinal tract with i.v., gadolinium and diluted barium oral contrast media compared with unenhanced MR imaging and CT. Low RN, et al.
AJR Am J Roentgenol 1997 Oct;169(4):1051–9

Re: Anaphylactic shock during a routine upper gastrointestinal series [letter; comment] Miller SH.
AJR Am J Roentgenol 1997 Sep;169(3):912–3. Comment on: AJR Am J Roentgenol 1997 Apr;168(4):957–8.

Upper gastrointestinal examination complicated by venous intravasation and portal vein thrombosis. Murphy KD, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):501–3

A new technique of administration of oral contrast material for abdominal CT: the drip ingestion method. Rhim HC, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):495–7

Anaphylactic shock during a routine upper gastrointestinal series [see comments] Seymour PC, et al.
AJR Am J Roentgenol 1997 Apr;168(4):957–8. Comment in: AJR Am J Roentgenol 1997 Apr;168(4):962–4. Comment in: AJR Am J Roentgenol 1997 Sep;169(3):912–3.

Anaphylactoid reactions with gastrointestinal contrast media [comment] Skucas J. **AJR Am J Roentgenol** 1997 Apr; 168(4):962–4. Comment on: AJR Am J Roentgenol 1997 Apr;168(4):957–8. Comment on: AJR Am J Roentgenol 1997 Apr;168(4):959–61.

Spiral CT: clinical applications in the gastrointestinal tract. Fishman EK. **Clin Imaging** 1997 Mar–Apr;21(2):111–21 (8 ref.)

Comparison of film-screen combination and digital fluorography in gastrointestinal barium examinations in a clinical setting. Barkhof F, et al. **Eur J Radiol** 1996 Jun; 22(3):232–5

Double-contrast barium examination of the upper gastrointestinal tract with nonendoscopic biopsy: findings in 100 patients. Bender GN, et al. **Radiology** 1997 Feb; 202(2):355–9

Upper gastrointestinal tract and abdomen: water as an orally administered contrast agent for helical CT. Winter TC, et al. **Radiology** 1996 Nov;201(2):365–70

Diffuse leiomyomatosis of the gastrointestinal tract in a single patient--esophagus to rectum: case report. Sell HW Jr, et al. **Surgery** 1997 Sep;122(3):637–40

[Tomographic study of the intra-abdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Coche G, et al. **J Radiol** 1996 Sep; 77(9):611–36 (45 ref.) (Eng. Abstr.) **(Fre)**

[Comments on the general review: tomographic study of the intrabdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Régent D, et al. **J Radiol** 1996 Sep;77(9):637–42 **(Fre)**

[Follow-up of Crohn's disease: can hydro-MRI replace fractionated gastrointestinal passage examination?] Schunk K, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 May;166(5):389–96 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Comparison of scintigraphy and lactulose breath hydrogen test for assessment of orocecal transit: lactulose accelerates small bowel transit. Miller MA, et al. **Dig Dis Sci** 1997 Jan;42(1):10–8

SECRETION

Regulation of gastrointestinal secretion: symposium overview. Dockray GJ. **Proc Nutr Soc** 1996 Mar; 55(1B):247–9

SURGERY

Results of a modified Duhamel Operation for Hirschsprung's disease using the GIA stapler. Yanagihara J, et al.
Eur J Pediatr Surg 1997 Apr;7(2):77–9

Upper gastrointestinal surgery and the appendix. Heemken R, et al. **Eur J Surg Suppl** 1996;(576):61–2

Sliding, absorbable, reinforced ring and an axially driven stent placement device for sutureless fibrin glue gastrointestinal anastomosis. Detweiler MB, et al. **J Invest Surg** 1996 Nov-Dec;9(6):495–504

1997 Harry M. Vars Research Award. Does the route of feeding modify gut barrier function and clinical outcome in patients after major upper gastrointestinal surgery? Reynolds JV, et al. **JPEN J Parenter Enteral Nutr** 1997 Jul-Aug;21(4):196–201

Gastrointestinal surgery for severe obesity. NIH consensus development conference, March 25–7,1991. **Nutrition** 1996 Jun;12(6):397–404 (0 ref.)

Update: NIH consensus conference. Gastrointestinal surgery for severe obesity. Brolin RE. **Nutrition** 1996 Jun; 12(6):403–4 (13 ref.)

Immediately elevated postoperative serum branched-chain amino acids following effective GI decompression and enteral feeding. Nassif AC, et al. **Nutrition** 1996 Mar; 12(3):159–63

Early enteral nutrition in gastrointestinal surgery: a pilot study. Velez JP, et al. **Nutrition** 1997 May;13(5):442–5

Gastrointestinal tract. Goldstein NS, et al.
Pathology (Phila) 1996;3(2):349–65 (65 ref.)

Reoperation. Planned and unplanned. Hirshberg A, et al.
Surg Clin North Am 1997 Aug;77(4):897–907 (14 ref.)

Postoperative delirium following gastrointestinal surgery in elderly patients. Kaneko T, et al. **Surg Today** 1997; 27(2):107–11

Instrumentation and techniques in equine gastrointestinal surgery. Mueller PO, et al.
Vet Clin North Am Equine Pract 1996 Aug;12(2):207–33 (72 ref.)

[Progresses in general surgery in China, 1996] Huang Y.
Chung Hua I Hsueh Tsa Chih 1996 Dec;76(12):899–900 (0 ref.) **(Chi)**

[The introduction of minimally invasive surgical techniques (editorial)] Schlumpf R, et al. **Swiss Surg** 1996;Suppl 4:3 **(Ger)**

[Liver function and the lipid metabolic status of patients before and after a surgical intervention on the gastrointestinal tract] Vasil'kov VG, et al.
Anesteziol Reanimatol 1996 May-Jun;(3):21–5 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Bowel abnormalities in the fetus—correlation of prenatal ultrasonographic findings with outcome. Corteville JE, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):724–9

Guidelines of the European Society of Gastrointestinal Endoscopy (E.S.G.E.). Endoscopic ultrasonography. Part I: Technique and upper gastrointestinal tract. European Endosonography Club. **Endoscopy** 1996 Jun;28(5):474–6

Miniprobe ultrasonography in the upper gastrointestinal tract: state of the art 1995, and prospects. Menzel J, et al.
Endoscopy 1996 Aug;28(6):508–13

Ultrasound of the hollow gastrointestinal tract in children. King SJ. **Eur Radiol** 1997;7(4):559–65 (42 ref.)

Normal endosonographic findings. Hawes RH.
Gastrointest Endosc 1996 Feb;43(2 Pt 2):S6–10

[Tomographic study of the intra-abdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Coche G, et al. **J Radiol** 1996 Sep; 77(9):611–36 (45 ref.) (Eng. Abstr.) **(Fre)**

[Comments on the general review: tomographic study of the intrabdominal digestive tract. Contributions of percutaneous echography and scanner in daily practice] Régent D, et al. **J Radiol** 1996 Sep;77(9):637–42 **(Fre)**

ULTRASTRUCTURE

Review article: beta 3-adrenoceptor agonists—future anti-inflammatory drugs for the gastrointestinal tract? Anthony A. **Aliment Pharmacol Ther** 1996 Dec; 10(6):859–63 (45 ref.)

VIROLOGY

Phenotypic variations and switches in HIV isolated from the blood and the gastrointestinal tissues of patients with HIV-1 infection. HIV/GI Research Study Group. al-Mulla W, et al. **J Med Virol** 1997 May;52(1):31–4

In situ detection of human cytomegalovirus DNA in gastrointestinal biopsies from AIDS patients by means of various PCR-derived methods. Musso O, et al.
J Virol Methods 1996 Feb;56(2):125–37

Immunopathology of human immunodeficiency virus infection in the gastrointestinal tract. Schneider T, et al.
Springer Semin Immunopathol 1997;18(4):515–33 (124 ref.)

GASTROINTESTINAL TRANSIT

Evidence for the anorexia of aging: gastrointestinal transit and hunger in healthy elderly vs. young adults. Clarkston WK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R243–8

Tapeworm infection decreases intestinal transit and enteric aerobic bacterial populations. Dwinell MB, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G480–5

Survival of human pancreatic enzymes during small bowel transit: effect of nutrients, bile acids, and enzymes. Holtmann G, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G553–8

Effects of meal size on postprandial responses in juvenile Burmese pythons (Python molurus). Secor SM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R902–12

Survival of anti-Clostridium difficile bovine immunoglobulin concentrate in the human gastrointestinal tract. Kelly CP, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):236–41

Effects of experimentally-impaired reticular contractions on digesta passage in sheep. Kaske M, et al. **Br J Nutr** 1997 Jul;78(1):97–110

Role of intestinal transit in the pathogenesis of gallbladder stones. Dowling RH, et al. **Can J Gastroenterol** 1997 Jan-Feb;11(1):57–64 (81 ref.)

Intestinal transit is more potently inhibited by fat in the distal (ileal brake) than in the proximal (jejunal brake) gut. Lin HC, et al. **Dig Dis Sci** 1997 Jan;42(1):19–25

Comparison of scintigraphy and lactulose breath hydrogen test for assessment of orocecal transit: lactulose accelerates small bowel transit. Miller MA, et al. **Dig Dis Sci** 1997 Jan;42(1):10–8

Can radio-opaque markers be used to measure mouth-to-stoma transit time in ileostomates? Silvester KR, et al. **Eur J Clin Nutr** 1996 Jun;50(6):343–5

Evaluation of oro-coecal transit time: a comparison of the lactose-[13C, 15N]ureide 13CO2- and the lactulose H2-breath test in humans. Wutzke KD, et al. **Eur J Clin Nutr** 1997 Jan;51(1):11–9

Evaluation of a biomagnetic technique for measurement of orocaecal transit time. Oliveira RB, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):491–5

Quantification of intestinal blood flow by ultrasonic transit time flowmetry in fed and endotoxaemic rats. Haque SM, et al. **Eur J Surg** 1996 Jul;162(7):561–5

Effect of bran, ispaghula, and inert plastic particles on gastric emptying and small bowel transit in humans: the role of physical factors. McIntyre A, et al. **Gut** 1997 Feb; 40(2):223–7

Rapid distal small bowel transit associated with sympathetic denervation in type I diabetes mellitus. Rosa-e-Silva L, et al. **Gut** 1996 Nov;39(5):748–56

Total and segmental colonic transit time in non ulcer dyspepsia. Nabar AA, et al. **Indian J Gastroenterol** 1995 Oct;14(4):131–3

Alterations in intestinal motility and microflora in experimental acute pancreatitis. Leveau P, et al. **Int J Pancreatol** 1996 Oct;20(2):119–25

Digestion and passage kinetics of forage fiber in dairy cows as affected by fiber-free concentrate in the diet. Stensig T, et al. **J Dairy Sci** 1997 Jul;80(7):1339–52

Small bowel transit time and colonic fermentation in young and elderly women. Kagaya M, et al. **J Gastroenterol** 1997 Aug;32(4):453–6

Influence of pregnancy and uterine weight on rat gastrointestinal transit. Chang FY, et al. **J Gastroenterol Hepatol** 1995 Sep-Oct;10(5):585–8

Colonic transit time in constipated children: does pediatric slow-transit constipation exist? Benninga MA, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):241–51

Gastrointestinal pH, motility/transit and permeability in cystic fibrosis. Gregory PC. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):513–23 (112 ref.)

The relationship between disturbed transit and dilated bowel, and manometric findings of dilated bowel in patients with duodenal atresia and stenosis. Takahashi A, et al. **J Pediatr Surg** 1997 Aug;32(8):1157–60

Cardiac constipation. Fried DA, et al. **J S C Med Assoc** 1997 Jun;93(6):221–2

The effect of endotoxin on canine jejunal motility and transit. Cullen JJ, et al. **J Surg Res** 1997 Jan;67(1):54–7

Acute experimental distal colitis alters colonic transit in rats. Myers BS, et al. **J Surg Res** 1997 Apr;69(1):107–12

Passage of chicken egg yolk antibody treated with hydroxypropyl methylcellulose phthalate in the gastrointestinal tract of calves. Ikemori Y, et al. **J Vet Med Sci** 1996 Apr;58(4):365–7

Colonic transit time in patients with myelomeningocele. Pigeon N, et al. **Neurogastroenterol Motil** 1997 Jun; 9(2):63–70

Stable isotope studies of pancreatic enzyme release in vivo. Seal S, et al. **Postgrad Med J** 1996 Mar;72 Suppl 2:S37–8

Assessment of orocaecal transit time in cats by the breath hydrogen method: the effects of sedation and a comparison of definitions. Sparkes AH, et al. **Res Vet Sci** 1996 May; 60(3):243–6

Colonic transit investigated by radiopaque markers in females with irritable bowel syndrome: no correlation with symptoms and chronic stress. Dumitrascu DL, et al. **Rom J Intern Med** 1996 Jul-Dec;34(3-4):225–31

Long-term results of subtotal colectomy and evidence of noncolonic involvement in patients with idiopathic slow-transit constipation. Ghosh S, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1083–91

Gastrointestinal transit of amoxicillin modified-release tablets and a placebo tablet including pharmacokinetic assessments of amoxicillin [see comments] Gottfries J, et al. **Scand J Gastroenterol** 1996 Jan;31(1):49–53. Comment in: Scand J Gastroenterol 1996 Jul;31(7):736.

Relationship between small-intestinal transit rate and intestinal absorption of (14)C-labelled mannitol and (51)Cr-labelled ethylenediaminetetraacetic acid in healthy subjects. Madsen JL, et al. **Scand J Gastroenterol** 1996 Mar; 31(3):254–9

Mechanisms for control of intestinal transit in short gut syndrome. Johnson CP, et al. **Transplant Proc** 1996 Oct; 28(5):2702–5

[The effect of lumbar relief orthoses with abdominal compression on esophago-gastrointestinal motility] Pfaffenbach B, et al. **Dtsch Med Wochenschr** 1996 Dec 20; 121(51-52):1592–7 (Eng. Abstr.) **(Ger)**

[Gastric emptying and small intestinal transport in chronic pancreatic insufficiency] Mizumoto A, et al. **J Smooth Muscle Res** 1995 Dec;31(6):377–9 **(Jpn)**

DRUG EFFECTS

Effects of psyllium therapy on stool characteristics, colon transit and anorectal function in chronic idiopathic constipation. Ashraf W, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):639–47

Influence of loperamide on lactose handling and oral-caecal transit time. Szilagyi A, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):765–70

Protein absorption depends on load-dependent inhibition of intestinal transit in dogs. Zhao XT, et al. **Am J Clin Nutr** 1996 Sep;64(3):319–23

Interaction of morphine and clonidine on gastrointestinal transit in mice. Puig MM, et al. **Anesthesiology** 1996 Dec; 85(6):1403–12

Effects of atropine and loperamide on the agitating force and GI transit time in dogs in drug absorption studies. Katori N, et al. **Biol Pharm Bull** 1996 Oct;19(10):1338–40

Differential effects of clonidine and dexmedetomidine on gastric emptying and gastrointestinal transit in the rat. Asai T, et al. **Br J Anaesth** 1997 Mar;78(3):301–7

Effects of lanreotide, a somatostatin analogue, on postprandial gastric functions and biliopancreatic secretions in humans. Lamrani A, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):65–70

The analgesic tramadol has minimal effect on gastrointestinal motor function. Wilder-Smith CH, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):71–5

The inhibitory effects of alpha(2)-adrenoceptor agonists on gastrointestinal transit during croton oil-induced intestinal inflammation. Pol O, et al. **Br J Pharmacol** 1996 Dec; 119(8):1649–55

The use of metoclopramide for the small bowel meal examination: pre-procedural versus peri-procedural oral administration. Paul N, et al. **Br J Radiol** 1996 Dec; 69(828):1130–3

Abnormalities in the contractile properties of colonic smooth muscle in idiopathic slow transit constipation. Slater BJ, et al. **Br J Surg** 1997 Feb;84(2):181–4

Effect of codeine on gastrointestinal motility in relation to CYP2D6 phenotype. Mikus G, et al. **Clin Pharmacol Ther** 1997 Apr;61(4):459–66

The safety and efficacy of oral methylnaltrexone in preventing morphine-induced delay in oral-cecal transit time. Yuan CS, et al. **Clin Pharmacol Ther** 1997 Apr; 61(4):467–75

Endotoxin actions on myoelectric activity, transit, and neuropeptides in the gut. Role of nitric oxide. Hellström PM, et al. **Dig Dis Sci** 1997 Aug;42(8):1640–51

Effects of medium-chain and long-chain triglycerides on antroduodenal motility and small bowel transit time in man. Verkijk M, et al. **Dig Dis Sci** 1997 Sep;42(9):1933–9

The clinical pharmacology of single doses of otilonium bromide in healthy volunteers. Sutton JA, et al. **Eur J Clin Pharmacol** 1997;52(5):365–9

Compounds possessing 5-HT3 receptor antagonistic activity inhibit intestinal propulsion in mice. Nagakura Y, et al. **Eur J Pharmacol** 1996 Sep 5;311(1):67–72

Cisapride reduces postoperative gastrocaecal transit time after cardiac surgery in children [see comments] Bindl L, et al. **Intensive Care Med** 1996 Sep;22(9):977–80. Comment in: Intensive Care Med 1997 Apr;23(4):482–3.

Thyroxine effect on intestinal Cl-/HCO3- exchange in hypo- and hyperthyroid rats. Tenore A, et al. **J Endocrinol** 1996 Dec;151(3):431–7

Opioid and opioid-like drug effects on whole-gut transit measured by scintigraphy. Maurer AH, et al. **J Nucl Med** 1996 May;37(5):818–22

SDZ HTF 919 stimulates canine colonic motility and transit in vivo. Nguyen A, et al. **J Pharmacol Exp Ther** 1997 Mar; 280(3):1270–6

Morphine tolerance and dependence in the rat intestine in vivo. Williams CL, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):656–63

Interactions between different antidepressants and morphine alter gastrointestinal transit in mice. Backer MM, et al. **Life Sci** 1997;61(9):PL109–13

Effects of morphine and liposomal morphine in a model of intestinal inflammation in mice. Pol O, et al. **Pharmacology** 1996 Sep;53(3):180–9

Effects of loperamide oxide on gastrointestinal transit time and anorectal function in patients with chronic diarrhoea and faecal incontinence. Sun WM, et al. **Scand J Gastroenterol** 1997 Jan;32(1):34–8

[Study of early postoperative lactitol versus paraffin following anal surgery in 110 adult patients] Copé R, et al. **Ann Chir** 1996;50(7):570–6 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Abnormal colonic transit time in untreated celiac sprue. Bai JC, et al. **Acta Gastroenterol Latinoam** 1995;25(5):277–84

Defaecation pattern and intestinal transit in Nigerian children. Akinbami FO, et al. **Afr J Med Med Sci** 1995 Dec;24(4):337–41

Fiber-supplemented enteral formula slows intestinal transit by intensifying inhibitory feedback from the distal gut. Lin HC, et al. **Am J Clin Nutr** 1997 Jun;65(6):1840–4

Gastrointestinal consequences of left ventricular assist device placement. el-Amir NG, et al. **ASAIO J** 1996 May-Jun; 42(3):150–3

Gastric emptying in patients with constipation following childbirth and due to idiopathic slow transit. MacDonald A, et al. **Br J Surg** 1997 Aug;84(8):1141–3

A radiopaque marker technique for measuring gastrointestinal transit in subjects with an ileostomy. Goldberg PA, et al. **Dig Dis Sci** 1996 Dec;41(12):2302–6

Jejunal brake [letter; comment] Vidon N, et al. **Dig Dis Sci** 1996 Dec;41(12):2317–8. Comment on: Dig Dis Sci 1996 Feb;41(2):326–9.

Lack of influence of intestinal transit on oxidative status in premenopausal women. Lewis S, et al. **Eur J Clin Nutr** 1996 Aug;50(8):565–8

How well does stool form reflect colonic transit? Degen LP, et al. **Gut** 1996 Jul;39(1):109–13

Intestinal transit in anxiety and depression. Gorard DA, et al. **Gut** 1996 Oct;39(4):551–5

Influence of alcohol on gastrointestinal motility: lactulose breath hydrogen testing in orocecal transit time in chronic alcoholics, social drinkers and teetotaler subjects. Addolorato G, et al. **Hepatogastroenterology** 1997 Jul-Aug; 44(16):1076–81

Colonic function in cirrhosis of liver & in healthy controls. Chacko A. **Indian J Med Res** 1997 May;105:220–5

Prediction of in-vivo blood level with controlled-release dosage forms. Effect of the gastrointestinal tract time. Ouriemchi IM, et al. **J Pharm Pharmacol** 1996 Apr; 48(4):390–4

Prediction of the plasma concentration profiles of orally administered drugs in rats on the basis of gastrointestinal transit kinetics and absorbability. Sawamoto T, et al. **J Pharm Pharmacol** 1997 Apr;49(4):450–7

Melatonin concentrations in serum and tissues of porcine gastrointestinal tract and their relationship to the intake and passage of food. Bubenik GA, et al. **J Pineal Res** 1996 Nov;21(4):251–6

Illness behavior, affective disturbance and intestinal transit time in idiopathic constipation. Chattat R, et al. **J Psychosom Res** 1997 Jan;42(1):95–100

Effect of exercise on mouth-to-cecum transit in trained athletes: a case against the role of runners' abdominal bouncing. Kayaleh RA, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):271–4

Biomechanics of the gastrointestinal tract. Gregersen H, et al. **Neurogastroenterol Motil** 1996 Dec;8(4):277–97 (132 ref.)

The influence of environmental temperature on in vivo limestone solubilization, feed passage rate, and gastrointestinal pH in laying hens. Gordon RW, et al. **Poult Sci** 1997 May;76(5):683–8

[Shorter postoperative atony after laparoscopic colon resection? Comparative animal experiment study] Tittel A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:237–9 (Eng. Abstr.) **(Ger)**

[The sono-capsule: a new method for measuring gastrointestinal motility] Amend M, et al. **Ultraschall Med** 1996 Dec;17(6):274–6 (Eng. Abstr.) **(Ger)**

[Preliminary evaluation of the usefulness of passage time along the alimentary tract in the diagnosis of constipation in children] Tomczak E, et al. **Wiad Lek** 1994 Nov-Dec; 47(21-24):817–20 (Eng. Abstr.) **(Pol)**

[An experimental study of the rate and dynamics of the progression of different foods through the digestive tract of the greater gerbil] Naumova EI, et al. **Izv Akad Nauk Ser Biol** 1996 Nov-Dec;(6):716–24 (Eng. Abstr.) **(Rus)**

GASTROPARESIS

Gastric and intestinal dysmotility syndromes. Soffer EE. **Cleve Clin J Med** 1997 Feb;64(2):69–71 (9 ref.)

COMPLICATIONS

Pathophysiology of diabetic gastroparesis. Enck P, et al. **Diabetes** 1997 Sep;46 Suppl 2:S77–81

Diagnostic and therapeutic approach to vomiting and gastroparesis in children with neurological and neuromuscular handicap. Ravelli AM. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S34–6

DIAGNOSIS

Application of isotope-selective nondispersive infrared

spectrometry (IRIS) for evaluation of [13C]octanoic acid gastric-emptying breath tests: comparison with isotope ratio-mass spectrometry (IRMS). Schadewaldt P, et al. **Clin Chem** 1997 Mar;43(3):518-22

[13C]octanoic acid breath test for non-invasive assessment of gastric emptying in diabetic patients: validation and relationship to gastric symptoms and cardiovascular autonomic function. Ziegler D, et al. **Diabetologia** 1996 Jul; 39(7):823-30

Antral myoelectric activity, gastric emptying, and dyspeptic symptoms in diabetics. Pfaffenbach B, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1166-71

DRUG THERAPY

The effect of intravenous erythromycin on solid meal gastric emptying in patients with chronic symptomatic post-vagotomy-antrectomy gastroparesis. Kendall BJ, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):381-5

The effect of chronic oral domperidone therapy on gastrointestinal symptoms, gastric emptying, and quality of life in patients with gastroparesis. Soykan I, et al. **Am J Gastroenterol** 1997 Jun;92(6):976-80

Cisapride as a treatment for gastroparesis in traumatic brain injury. Altmayer T, et al. **Arch Phys Med Rehabil** 1996 Oct;77(10):1093-4

Chronic administration of levosulpiride and glycemic control in IDDM patients with gastroparesis. Melga P, et al. **Diabetes Care** 1997 Jan;20(1):55-8

Management of gastrointestinal motility disorders. A practical guide to drug selection and appropriate ancillary measures. Malagelada JR, et al. **Drugs** 1996 Oct; 52(4):494-506 (96 ref.)

Cisapride in the long-term treatment of chronic gastroparesis: a 2-year open-label study. Kendall BJ, et al. **J Int Med Res** 1997 Jul-Aug;25(4):182-9

Two non-diabetic patients with delayed gastric emptying during CAPD effectively treated with erythromycin. de Graaf-Strukowska L, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2349-50

ETIOLOGY

Median arcuate ligament syndrome: a possible cause of idiopathic gastroparesis. Balaban DH, et al. **Am J Gastroenterol** 1997 Mar;92(3):519-23

Gastroparesis: a potential pitfall of laparoscopic Nissen fundoplication. Hunter RJ, et al. **Am J Gastroenterol** 1996 Dec;91(12):2617-8

Cisapride as a treatment for gastroparesis in traumatic brain injury. Altmayer T, et al. **Arch Phys Med Rehabil** 1996 Oct;77(10):1093-4

Antral myoelectric activity, gastric emptying, and dyspeptic symptoms in diabetics. Pfaffenbach B, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1166-71

MICROBIOLOGY

Helicobacter pylori infection and gastric emptying of indigestible solids in patients with dysmotility-like dyspepsia. Fock KM, et al. **Scand J Gastroenterol** 1997 Jul;32(7):676-80

PHYSIOPATHOLOGY

Cisapride and erythromycin prokinetic effects in gastroparesis due to type 1 (insulin-dependent) diabetes mellitus. Annese V, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):599-603

Simplifying the evaluation of postprandial antral motor function in patients with suspected gastroparesis. Thumshirn M, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1496-500

Altered intestinal transit is independent of gastroparesis in the early diabetic rats. Chang FY, et al. **Chin J Physiol** 1997;40(1):31-5

Dietary adequacy in patients with diabetic gastroparesis. Goldberg KB, et al. **J Am Diet Assoc** 1997 Apr;97(4):420-2

Effects of gastroprokinetic agents on gastroparesis in streptozotocin-induced diabetic rats. Yamano M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):145-50

Symptoms and gastric function in dyspepsia--goodbye to gastroparesis? [editorial] Quigley EM. **Neurogastroenterol Motil** 1996 Dec;8(4):273-5

Helicobacter pylori infection and gastric emptying of indigestible solids in patients with dysmotility-like dyspepsia. Fock KM, et al. **Scand J Gastroenterol** 1997 Jul;32(7):676-80

THERAPY

Jejunostomy tube placement in refractory diabetic gastroparesis: a retrospective review. Fontana RJ, et al. **Am J Gastroenterol** 1996 Oct;91(10):2174-8

Gastroparesis: current management. Webb WW, et al. **Compr Ther** 1995 Dec;21(12):741-45 (26 ref.)

Electrical stimulation at a frequency higher than basal rate in human stomach. Familoni BO, et al. **Dig Dis Sci** 1997 May;42(5):885-91

ULTRASONOGRAPHY

[Possibilities of ultrasonography of gastric emptying] Prassler R, et al. **Wien Med Wochenschr** 1996;146(24):615-8 (Eng. Abstr.) **(Ger)**

VETERINARY

Unusual cause of rumen stasis in a cow [letter] Clarke PJ. **Vet Rec** 1997 Jun 14;140(24):636

VIROLOGY

Viral gastroparesis: a subgroup of idiopathic gastroparesis--clinical characteristics and long-term outcomes. Bityutskiy LP, et al. **Am J Gastroenterol** 1997 Sep;92(9):1501-4

GASTROPLASTY

Changes in pulmonary mechanics during laparoscopic gastroplasty in morbidly obese patients. Dumont L, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):408-13

Functional laparoscopic reversal of a long gastroplasty. Bird PA, et al. **Aust N Z J Surg** 1997 Oct;67(10):734-5

Effects of vertical-banded gastroplasty on bone and mineral metabolism in obese patients. Cundy T, et al. **Br J Surg** 1996 Oct;83(10):1468-72

Effect of bi-level positive airway pressure (BiPAP) nasal ventilation on the postoperative pulmonary restrictive syndrome in obese patients undergoing gastroplasty. Joris JL, et al. **Chest** 1997 Mar;111(3):665-70

Quality of life after gastroplasty is normal: a controlled study. Isacsson A, et al. **Eur J Surg** 1997 Mar;163(3):181-6

Weight change in relation to intake of sugar and sweet foods before and after weight reducing gastric surgery. Lindroos AK, et al. **Int J Obes Relat Metab Disord** 1996 Jul; 20(7):634-43

Treatment of acid burns of the stomach by gastroplasty. Sidhu BS. **J Indian Med Assoc** 1996 Apr;94(4):163

[Reconstruction of the silhouette after gastroplasty] Masson CL, et al. **Ann Chir** 1997;51(2):189-98 (Eng. Abstr.) **(Fre)**

[Medical assessment prior to gastroplasty: indications and contraindications] Scheen AJ. **Rev Med Brux** 1996 Sep; 17(4):232-5 (13 ref.) (Eng. Abstr.) **(Fre)**

[Post-gastroplasty plastic surgery] Vandeweyer E, et al. **Rev Med Brux** 1996 Sep;17(4):244-7 (Eng. Abstr.) **(Fre)**

[First experience with vertical gastroplasty in the treatment of patients with 4th-degree obesity] Iashkov IuI, et al. **Khirurgiia (Mosk)** 1996;(2):35-8 (Eng. Abstr.) **(Rus)**

[Results of surgical treatment of nutritional-constitutional obesity by creation of "small stomach"] Lavrik AS. **Klin Khir** 1996;(5):11-3 **(Rus)**

[X-ray study of the stomach after vertical gastroplasty in the treatment of morbid obesity] Ovchinnikov VI, et al. **Vestn Rentgenol Radiol** 1996 May-Jun;(3):29-32 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Dermatitis herpetiformis following gastric surgery [letter] Kovaleski CR, et al. **Arch Dermatol** 1997 Jan;133(1):113-4

Complications and pitfalls: Belsey and Collis-Belsey antireflux repairs. Pearson FG. **Chest Surg Clin N Am** 1997 Aug;7(3):513-32 (3 ref.)

Wernicke's encephalopathy after vertical banded gastroplasty for morbid obesity. Christodoulakis M, et al. **Eur J Surg** 1997 Jun;163(6):473-4

Neurological disturbances and hyperdynamic shock in a patient with esophagocoloplasty. Campos L, et al. **Intensive Care Med** 1997 May;23(5):590-2

[Surgical treatment of cervical fistula after esophagogastroplasty (EGP)] De Anna D, et al. **Minerva Chir** 1996 Sep;51(9):641-4 (Eng. Abstr.) **(Ita)**

INSTRUMENTATION

Antireflux operations at flexible endoscopy using endoluminal stitching techniques: an experimental study. Kadirkamanathan SS, et al. **Gastrointest Endosc** 1996 Aug; 44(2):133-43

Laparoscopic adjustable silicone gastric banding in the treatment of super obesity in the Jeddah area, Saudi Arabia. A preliminary report. Ashy AA, et al. **Int Surg** 1996 Jul-Sep;81(3):289-91 (16 ref.)

METHODS

Prospective, randomized evaluation of midline fascial closure in gastric bariatric operations. Brolin RE. **Am J Surg** 1996 Oct;172(4):328-31

Laparoscopic collis gastroplasty is the treatment of choice for the shortened esophagus [letter; comment] Maher JW. **Am J Surg** 1996 Nov;172(5):609-10. Comment on: Am J Surg 1996 May;171(5):477-81.

First clinical experience with fundus rotation gastroplasty as a substitute for the oesophagus. Schilling M, et al. **Br J Surg** 1997 Jan;84(1):126-8

Vertical banded gastroplasty or gastric banding for morbid obesity: effects on gastro-oesophageal reflux. Lundell L, et al. **Eur J Surg** 1997 Jul;163(7):525-31

Seven year results of vertical banded gastroplasty for morbid obesity. Näslund E, et al. **Eur J Surg** 1997 Apr;163(4):281-6

Gastric banding in the treatment of morbid obesity. Fried M, et al. **Hepatogastroenterology** 1997 Mar-Apr; 44(14):582-7

[Gastric banding in the treatment of obesity] Suchý T, et al. **Rozhl Chir** 1996 May;75(5):245-8 (Eng. Abstr.) **(Cze)**

[Celioscopic approach in surgical treatment of morbid obesity. Technique and results] Belachew M, et al. **Ann Chir** 1997;51(2):165-72 (Eng. Abstr.) **(Fre)**

[Treatment of morbid obesity by adjustable silicone gastric banding. A new surgical technique of gastroplasty for obesity] Lecomte P, et al. **J Chir (Paris)** 1996 Jul; 133(5):226-8 (Eng. Abstr.) **(Fre)**

[The treatment of morbid obesity with gastroplasty] Houben JJ, et al. **Rev Med Brux** 1996 Sep;17(4):236-9 (14 ref.) (Eng. Abstr.) **(Fre)**

[Fundus rotation gastroplasty: reduced incidence of anastomosis leaks after esophageal resection by improved blood supply and increased tube length] Schilling MK, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:801-7 (Eng. Abstr.) **(Ger)**

[Surgical treatment of obesity. Is gastric wrapping an alternative?] Fanneløp TO, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10;117(15):2166-9 (Eng. Abstr.) **(Nor)**

[Posteromediastinal esophagogastroplasty in esophageal surgery] Krolevets IP, et al. **Khirurgiia (Mosk)** 1996; (6):9-12 (Eng. Abstr.) **(Rus)**

[One-step transpleural or transmediastinal esophagogastroplasty in resection of the esophagus for cancer] Simonov NN, et al. **Vestn Khir Im I I Grek** 1996; 155(6):14-6 (Eng. Abstr.) **(Rus)**

MORTALITY

[The factors affecting patient survival after esophageal resection with single-stage intrathoracic esophagogastroplasty] Miroshnikov BI, et al. **Vestn Khir Im I I Grek** 1997;156(1):24-7 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

The night eating syndrome in the general population and among postoperative obesity surgery patients. Rand CS, et al. **Int J Eat Disord** 1997 Jul;22(1):65-9

GASTROSCOPY

Gastric ulcer and cancer ulcer. Retrospective evaluation of the current endoscopic diagnosis. Sumberaz A, et al. **Acta Gastroenterol Latinoam** 1996;26(3):139-41

Benefit of immediate endoscopy after radiography for anisakiasis [letter] Kanematsu M, et al. **AJR Am J Roentgenol** 1997 Apr;168(4):1114-5

Paediatric upper gastro-intestinal endoscopy in developing countries. Rawashdeh MO, et al. **Ann Trop Paediatr** 1996 Dec;16(4):341-6

Endoscopic diagnosis of pyriform fossa lymphoma. Thomson A, et al. **Can J Gastroenterol** 1996 Nov-Dec;10(7):447-8

Noninvasive endoscopical measurement of gastric mucosal blood flow in the anesthetized rat. Yamamoto Y, et al. **Digestion** 1996 Nov-Dec;57(6):420-3

Percutaneous endoscopic gastrostomy as a treatment for chronic gastric volvulus. Baudet JS, et al. **Endoscopy** 1997 Feb;29(2):147-8

Dieulafoy's ulcer: combined endoscopic and laparoscopic treatment. Bouillot JL, et al. **Endoscopy** 1996 May; 28(4):394-5

Gastric ulcer perforation into the heart. Brullet E, et al. **Endoscopy** 1996 Mar;28(3):316-8

Endoscopic treatment of bleeding fundic varices with 50% glucose injection. Chang KY, et al. **Endoscopy** 1996 May; 28(4):398

Endoscopic ultrasonography in the evaluation of gastric polyps in juvenile polyposis. Gyrtrup HJ, et al. **Endoscopy** 1997 Feb;29(2):136-7

Mechanisms producing color change in flat early gastric cancers. Honmyo U, et al. **Endoscopy** 1997 Jun;29(5):366-71

An endoscopic follow-up study of the development of diffuse antral vascular ectasia. Ikeda M, et al. **Endoscopy** 1996 May; 28(4):390-3

Endoscopy and gastric ulcers. Moayyedi P, et al. **Endoscopy** 1995 Nov;27(9):689-93 (73 ref.)

Combining endoscopy with DICIDA scanning to evaluate prolonged epigastralgia after choledochoduodenostomy. Sheu BS, et al. **Endoscopy** 1995 Nov;27(9):708-9

Watermelon stomach [letter; comment] van Blankenstein M. **Endoscopy** 1996 Mar;28(3):328. Comment on: Endoscopy 1995 Feb;27(2):203-6.

Gastric carcinoma with discrete intragastric and duodenal metastases: endoscopic and histological findings. Young TH, et al. **Endoscopy** 1996 May;28(4):404

Double blind randomized trial on occult blood bead (OBB) and gastroscopy-pathology screening for gastro-oesophageal cancer. Qin DX, et al. **Eur J Cancer Prev** 1997 Apr;6(2):158-61

Chronic dyspepsia: who needs endoscopy? Axon AT. **Gastroenterology** 1997 Apr;112(4):1376-80 (26 ref.)

Use of cricoid pressure to facilitate gastric insufflation and stop hiccoughs during gastroscopy [letter] Tey HK, et al. **Gastrointest Endosc** 1996 Dec;44(6):760-1

Endoscopic and pathologic features of Epstein-Barr virus-associated gastric carcinoma. Yanai H, et al. **Gastrointest Endosc** 1997 Mar;45(3):236-42

The use of endoscopic ultrasonography in the evaluation and diagnosis of gastric lesions. Jaffe PE. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):565-84 (52 ref.)

Endoscopy of the normal stomach. Morales TG. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):477–88

Limitations of endoscopic inspection in diagnosis of malignant gastric ulcer [letter] Mohandas KM, et al. **Indian J Gastroenterol** 1996 Apr;15(2):79–80

A method for the estimation of the hemoglobin distribution in gastroscopic images. Englmeier KH, et al. **Int J Biomed Comput** 1996 Jun;41(3):153–65

Gastric epithelial polyps: a retrospective endoscopic study of 12974 symptomatic patients. Archimandritis A, et al. **Ital J Gastroenterol** 1996 Sep;28(7):387–90

Resection of Dieulafoy's lesion by a combined endoscopic and laparoscopic approach. Karanfilian RG, et al. **J Laparoendosc Surg** 1996 Oct;6(5):345–8

Successful endoscopic balloon dilatation for hypertrophic pyloric stenosis. Ogawa Y, et al. **J Pediatr Surg** 1996 Dec; 31(12):1712–4

Are abnormal gastrofiberscopic findings related to hostility with poor social support or to negative responses to stress? Fukunishi I, et al. **J Psychosom Res** 1996 Oct;41(4):337–42

Endoscopic ligation of gastric varices [letter] Takeuchi M, et al. **Lancet** 1996 Oct 12;348(9033):1038

Percutaneous endoscopic gastrostomy by head and neck surgeons. Urban KG, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):489–92

Assessment of the usefulness of endoscopic signs in Helicobacter pylori associated gastritis. Yela MC, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):3–12 **(Eng, Spa)**

Diagnostic methods in dyspepsia: the usefulness of upper abdominal ultrasound and gastroscopy. Heikkinen MT, et al. **Scand J Prim Health Care** 1997 Jun;15(2):82–6

Resection of a gastric leiomyoma using combined laparoscopic and gastroscopic approach. Gurbuz AT, et al. **Surg Endosc** 1997 Mar;11(3):285–6

[Transendoscopic drug denervation of the stomach in emergency surgical diseases of the gastrointestinal tract (a preliminary report)] Gerzilov P, et al. **Khirurgiia (Sofiia)** 1996;49(6):17–8 (Eng. Abstr.) **(Bul)**

[Gastroscopy in children (editorial)] Husby S. **Ugeskr Laeger** 1997 May 12;159(20):2983 **(Dan)**

[Gastroscopic findings in HIV-positive patients] Risum S, et al. **Ugeskr Laeger** 1997 Jan 13;159(3):284–7 (Eng. Abstr.) **(Dan)**

[Esophago-gastro-duodenoscopy of pediatric patients] Wewer AV, et al. **Ugeskr Laeger** 1997 May 12; 159(20):3015–20 (Eng. Abstr.) **(Dan)**

[Long-term results of endoscopic balloon dilatation of ulcer-induced pyloric stenoses--follow-up of 25 patients] Schilling D, et al. **Z Gastroenterol** 1997 Feb;35(2):105–8 (Eng. Abstr.) **(Ger)**

[Aspiration cytology in gastroenterologic endoscopy] Bene L, et al. **Orv Hetil** 1997 Feb 2;138(5):277–9 (Eng. Abstr.) **(Hun)**

[Endoscopic mucosal resection for early gastric cancer] Hamada T, et al. **Nippon Rinsho** 1996 May;54(5):1292–7 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Endoscopic treatment of early gastric cancer with laser and laserthermia using Nd : YAG laser] Otsuka S. **Nippon Rinsho** 1996 May;54(5):1326–31 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Endoscopic treatment of early gastric cancer with heat probe method] Otsuka S. **Nippon Rinsho** 1996 May; 54(5):1351–3 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Percutaneous endoscopic gastrostomy in patients with swallowing difficulties--home care and long-term result] Yamashiro K, et al. **Nippon Ronen Igakkai Zasshi** 1996 Sep; 33(9):662–8 (Eng. Abstr.) **(Jpn)**

[Holter EKG method of monitoring during gastroscopic examination in children] Nowak A, et al. **Wiad Lek** 1994 Nov-Dec;47(21-24):813–6 (Eng. Abstr.) **(Pol)**

[Gastroscopy in the diagnosis of congenital pylorostenosis] Martynenko VV, et al. **Khirurgiia (Mosk)** 1996;(4):38–9 (Eng. Abstr.) **(Rus)**

[The combined x-ray-endoscopic evaluation of the late results in organ-preserving operations with vagotomy in peptic ulcer] Zaĭtsev VT, et al. **Lik Sprava** 1996 Jan-Feb; (1-2):115–8 (Eng. Abstr.) **(Rus)**

[The endoscopic assessment of the effect of ranitidine and pirenzepine on the manifestations of the gastropathy induced by nonsteroidal anti-inflammatory preparations] Karateev AE, et al. **Ter Arkh** 1997;69(5):67–9 (Eng. Abstr.) **(Rus)**

[Fiber gastroscopy as the first stage in screening for diseases of the upper gastrointestinal tract] Korotkevich AG, et al. **Vestn Khir Im I I Grek** 1996;155(4):81–3 (Eng. Abstr.) **(Rus)**

[Endoscopic and immunomorphological changes in the mucosa of the operated stomach] Poluéktov VL, et al. **Vestn Khir Im I I Grek** 1996;155(2):15–7 (Eng. Abstr.) **(Rus)**

[Correlation among endoscopic, histological, and microbiological findings in gastroduodenal pathology associated with Helicobacter pylori] Carmona Sáez TJ, et al. **An Med Interna** 1996 Jun;13(6):269–73 (Eng. Abstr.) **(Spa)**

[Endoscopic discovery of a worm larva at the base of a gastric ulcer] Cruchaga S, et al. **Enferm Infecc Microbiol Clin** 1995 Dec;13(10):631–2 **(Spa)**

[Can treatment wait until gastroscopy is performed? (letter)] Langrath G. **Lakartidningen** 1996 Nov 27;93(48):4390, 4392 **(Swe)**

ADVERSE EFFECTS

Complications following percutaneous endoscopic gastrostomy and subsequent catheter replacement in children and young adults. Fox VL, et al. **Gastrointest Endosc** 1997 Jan;45(1):64–71

[Nosocomial transmission of Helicobacter pylori through fiberoptic gastroscopy] Zhao K, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Feb; 17(1):36–9 (Eng. Abstr.) **(Chi)**

[Stomach wall necrosis after endoscopic sclerotherapy (letter; comment)] Friedrichs O. **Dtsch Med Wochenschr** 1997 Aug 1;122(31–32):990–1. Comment on: Dtsch Med Wochenschr 1997 May 9;122(19):606–9. **(Ger)**

[Aspiration-induced lung complications following emergency endoscopy in upper gastrointestinal hemorrhage: incidence and localization by thoracic radiography] Gartenschläger M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):345–8 (Eng. Abstr.) **(Ger)**

ECONOMICS

Gastric ulcers at endoscopy: brush, biopsy, or both? Sadowski DC, et al. **Am J Gastroenterol** 1997 Apr;92(4):608–13

INSTRUMENTATION

The wide-channel endoscope optimizes the success of emergency endoscopy. Hintze RE, et al. **Acta Gastroenterol Belg** 1996 Oct-Dec;59(4):237–9

Once is enough. Wootton FT 3rd. **Am J Gastroenterol** 1997 Jun;92(6):1066–7

Can the expandable esophageal metal Endocoil stent be safely removed? Segalin A, et al. **Endoscopy** 1997 May;29(4):337–9

Simultaneous analysis of mucosal and submucosal hemodynamics using infrared electronic endoscopy: effects of intraluminal acid on ulcer scars. Tsuji S, et al. **Endoscopy** 1995 Nov;27(9):679–82

Device choice and experience level in endoscopic foreign object retrieval: an in vivo study. Faigel DO, et al. **Gastrointest Endosc** 1997 Jun;45(6):490–2

Wire-guided esophageal intubation with a multiband ligator attached to the end of the gastroscope [letter] Hurwitz LK, et al. **Gastrointest Endosc** 1997 May;45(5):443–4

A new jumbo-channel therapeutic gastroscope for acute upper gastrointestinal bleeding. Kodali VP, et al. **Gastrointest Endosc** 1997 May;45(5):409–11

Difficult sigmoid colon intubation: guide wire exchange technique [letter] Ness RM, et al. **Gastrointest Endosc** 1996 Jul;44(1):99–101

Retrieval of a pin from the stomach by endoscopic aspiration through an inner tube [letter; comment] Pugliese V. **Gastrointest Endosc** 1996 Mar;43(3):261–3. Comment on: Gastrointest Endosc 1995 Jan;41(1):33–8. Comment on: Gastrointest Endosc 1995 Jan;41(1):39–51.

Fatal outcome following endoscopic fundal variceal ligation [letter] Vitte RL, et al. **Gastrointest Endosc** 1996 Jan; 43(1):82

Endoscopic ultrasonic probes and mucosectomy for early gastric carcinoma. Yasuda K. **Gastrointest Endosc** 1996 Feb;43(2 Pt 2):S29–31

[Complications of percutaneous endoscopic gastrostomy (PEG)] Drochner U, et al. **Leber Magen Darm** 1996 Sep; 26(5):263–6 (Eng. Abstr.) **(Ger)**

[Treatment of watermelon stomach (GAVE syndrome) with endoscopic argon plasma coagulation (APC). A new therapy approach] Focke G, et al. **Leber Magen Darm** 1996 Sep;26(5):254, 257–9 (Eng. Abstr.) **(Ger)**

[Stomach volume reduction balloon for weight loss: what is the justification for this controversial method?] Krakamp B, et al. **Zentralbl Chir** 1997;122(5):349–56; discussion 356–7 (Eng. Abstr.) **(Ger)**

METHODS

Nutritional management of the disabled child: the role of percutaneous endoscopic gastrostomy. Eltumi M, et al. **Dev Med Child Neurol** 1997 Jan;39(1):66–8 (33 ref.)

Prospective comparison of nasal versus oral insertion of a thin video endoscope in healthy volunteers [see comments] Roy JF, et al. **Endoscopy** 1996 Jun;28(5):422–4. Comment in: Endoscopy 1996 Jun;28(5):436–7.

Percutaneous endoscopic gastrostomy placement using the pull-through or push-through techniques: is the second pass of the gastroscope necessary? Sartori S, et al. **Endoscopy** 1996 Oct;28(8):686–8

Chronic atrophic fundic gastritis diagnosed by a modified Congo red test. Toth E, et al. **Endoscopy** 1995 Nov; 27(9):654–8

Diagnostic use of endoscopic mucosal resection. Ghosh S, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):539–41

Prospective comparison of H&E, Giemsa, and Genta stains for the diagnosis of Helicobacter pylori. Laine L, et al. **Gastrointest Endosc** 1997 Jun;45(6):463–7

Percutaneous endoscopic gastrostomy/jejunostomy (PEG/PEJ) tube placement: a novel approach. Leichus L, et al. **Gastrointest Endosc** 1997 Jan;45(1):79–81

Long-term follow-up of gastric variceal sclerotherapy: an eleven-year experience. Sarin SK. **Gastrointest Endosc** 1997 Jul;46(1):8–14

Endoscopic injection of gelatin solution for severe hemorrhagic gastric cancer. Tajika M, et al. **Gastrointest Endosc** 1996 Mar;43(3):247–50 (10 ref.)

Modification of the PEG procedure to facilitate reinsertion of the gastroscope [letter] Vecchio J. **Gastrointest Endosc** 1996 Nov;44(5):637

Endoscopic evaluation of the postoperative stomach. Mellinger JD, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):621–39 (59 ref.)

Assessment of residual gastric volume and thirst in patients who drink before gastroscopy. Greenfield SM, et al. **Gut** 1996 Sep;39(3):360–2

Percutaneous endoscopic gastrostomy in a military hospital. Salam I, et al. **J R Army Med Corps** 1994 Jun;140(2):86–9

Combining minimal access procedures expands the potential of laparoscopic surgery [editorial] Larson GM. **Surg Endosc** 1997 Mar;11(3):225

A four-point fixation method for the resection of early gastric cancer, with particular reference to the analysis of cases of incomplete resection. Tanaka M, et al. **Surg Endosc** 1997 Mar;11(3):295–8

[Fluorescent endoscopy in diagnosis of stomach neoplasm] Kuzin NM, et al. **Khirurgiia (Mosk)** 1997;(6):70–2 (21 ref.) **(Rus)**

PSYCHOLOGY

Responses of consecutive patients to reassurance after gastroscopy: results of self administered questionnaire survey. Lucock MP, et al. **BMJ** 1997 Sep 6;315(7108):572–5

STATISTICS & NUMERICAL DATA

A tour in Province [letter] Stacey BS. **J R Army Med Corps** 1996 Oct;142(3):129

UTILIZATION

Open access gastroscopy: second survey of current practice in the United Kingdom. Silcock JG, et al. **Gut** 1997 Feb; 40(2):192–5

VETERINARY

Development and evaluation of an endoscopic technique permitting rapid visualization of the cardiac region of the porcine stomach. Mackin AJ, et al. **Can J Vet Res** 1997 Apr;61(2):121–7

GASTROSPIRILLUM

Prevalence of Helicobacter-like organisms in porcine gastric mucosa: a study of swine slaughtered in Italy. Grasso GM, et al. **Comp Immunol Microbiol Infect Dis** 1996 Jun; 19(3):213–7

ISOLATION & PURIFICATION

Occurrence of 'gastric Helicobacter-like organisms' in cats. Papasouliotis K, et al. **Vet Rec** 1997 Apr 5;140(14):369–70

GASTROSPIRILLUM HOMINIS

Gastrospirillum hominis gastritis in a child with celiac sprue. Drewitz DJ, et al. **Dig Dis Sci** 1997 May;42(5):1083–6 (23 ref.)

Healing of duodenal ulcer after eradication of Helicobacter heilmannii [letter] Goddard AF, et al. **Lancet** 1997 Jun 21; 349(9068):1815–6

GASTROSPIRILLUM SUIS see **GASTROSPIRILLUM**

GASTROSTOMY

Outcome in patients who require a gastrostomy after stroke [letter; comment] Norton B, et al. **Age Ageing** 1996 Nov; 25(6):493. Comment on: Age Ageing 1995 Nov;24(6):510–4.

Outcome in patients who require a gastrostomy after stroke [letter; comment] Smithard D. **Age Ageing** 1996 Jul; 25(4):335–6. Comment on: Age Ageing 1995 Nov;24(6):510–4.

The safety of gastrostomy in patients with Crohn's disease. Mahajan L, et al. **Am J Gastroenterol** 1997 Jun;92(6):985–8

Nonencapsulated, intact omeprazole granules effectively suppress intragastric acidity when administered via a gastrostomy. Sharma VK, et al. **Am J Gastroenterol** 1997 May;92(5):848–51

Antibiotic prophylaxis in percutaneous endoscopic gastrostomy. Sturgis TM, et al. **Am J Gastroenterol** 1996 Nov;91(11):2301–4

Pneumoperitoneum after esophageal intubation and prior percutaneous endoscopic gastrostomy. Lincoln T, et al. **Anesth Analg** 1996 Nov;83(5):1115–6

Pancreaticogastrostomy after pancreatoduodenectomy. A retrospective study of 28 patients. Pikarsky AJ, et al. **Arch Surg** 1997 Mar;132(3):296–9

Conversion of gastrostomy to transgastric jejunostomy in children. McHugh K. **Clin Radiol** 1997 Jul;52(7):550–1

Percutaneous endoscopic gastrostomy as a treatment for chronic gastric volvulus. Baudet JS, et al. **Endoscopy** 1997 Feb;29(2):147–8

Percutaneous endoscopic gastrostomy: evaluation of insertion by an endoscopy nurse practitioner [see comments] Sturgess RP, et al. **Eur J Gastroenterol Hepatol** 1996 Jul; 8(7):631–4. Comment in: Eur J Gastroenterol Hepatol 1996 Jul;8(7):623–4. Comment in: Eur J Gastroenterol Hepatol 1997 Jan;9(1):93.

Tube feedings and file drawers. Koretz RL.

Gastroenterology 1996 Sep;111(3):827–9

PEGS: buttons, balloons, and mushrooms [letter; comment] Harary AM. **Gastrointest Endosc** 1997 Jun;45(6):538–40. Comment on: Gastrointest Endosc 1996 Sep;44(3):230–4.

The use of radiologically placed gastrostomy tubes in head and neck cancer patients receiving radiotherapy. Tyldesley S, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1; 36(5):1205–9

An evaluation of percutaneous endoscopic gastrostomy feeding in AIDS. Dowling S, et al. **Int J STD AIDS** 1996 Mar–Apr;7(2):106–9

Stomal ulcer after gastric restrictive operations [editorial; comment] Griffen WO Jr. **J Am Coll Surg** 1997 Jul; 185(1):87–8. Comment on: J Am Coll Surg 1997 Jul;185(1):1–7.

Modified barium swallow does not affect how often PEGs are placed after stroke. Akpunonu BE, et al. **J Clin Gastroenterol** 1997 Mar;24(2):74–8

Decision–making and outcomes for percutaneous endoscopic gastrostomy: a pilot study. Van Rosendaal GM, et al. **J Clin Gastroenterol** 1997 Mar;24(2):71–3

Survival estimates for patients with abnormal swallowing studies [see comments] Cowen ME, et al. **J Gen Intern Med** 1997 Feb;12(2):88–94. Comment in: J Gen Intern Med 1997 Feb;12(2):134–5.

Two times what? Quantity and quality of life in tube feeding decisions [editorial; comment] Youngner SJ, et al. **J Gen Intern Med** 1997 Feb;12(2):134–5. Comment on: J Gen Intern Med 1997 Feb;12(2):88–95.

Gastric mucosal injuries in children from inflatable low–profile gastrostomy tubes. Kazi S, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):75–8

Guidelines for placement of percutaneous endoscopic gastrostomy tube [letter; comment] Rosner F. **Lancet** 1997 Mar 29;349(9056):958. Comment on: Lancet 1997 Feb 15;349(9050):496–8.

Guidelines for placement of percutaneous endoscopic gastrostomy tube [letter; comment] Stewart JA. **Lancet** 1997 Mar 29;349(9056):958. Comment on: Lancet 1997 Feb 15;349(9050):496–8.

Tissue–specific effects of chronic dietary protein restriction and gastrostomy on the insulin–like growth factor–I pathway in the liver and colon of adult rats. Qu Z, et al. **Metabolism** 1997 Jun;46(6):691–7

Truncal vagotomy and gastrojejunostomy for chronic duodenal ulcer in India [see comments] Srinivasan K, et al. **Natl Med J India** 1996 Mar–Apr;9(2):57–60. Comment in: Natl Med J India 1996 Mar–Apr;9(2):54–6.

Gastroduodenal decompression and simultaneous nasoenteral nutrition: "extracorporeal gastrojejunostomy" [clinical conference] [published erratum appears in Nutrition 1996 Oct;12(10):747] Sriram K, et al. **Nutrition** 1996 Jun; 12(6):440–1

Percutaneous endoscopic gastrostomy by head and neck surgeons. Urban KG, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):489–92

Noninvasive ventilation during percutaneous gastrostomy placement in Duchenne muscular dystrophy. Pope JF, et al. **Pediatr Pulmonol** 1997 Jun;23(6):468–71

Comparison of pancreatogastrostomy and pancreatojejunostomy after pancreatoduodenectomy performed by one surgeon. Kim SW, et al. **World J Surg** 1997 Jul–Aug;21(6):640–3

[Percutaneous gastrostomy in interventional radiology in cervico–facial oncology. Apropos of 174 cases] Le Ridant AM, et al. **Ann Otolaryngol Chir Cervicofac** 1996; 113(3):170–4 (Eng. Abstr.) **(Fre)**

[Conventional gastric tube or percutaneous endoscopic gastrostomy? (see comments)] Zipf A, et al. **Dtsch Med Wochenschr** 1996 Sep 13;121(37):1141. Comment in: Dtsch Med Wochenschr 1997 Mar 14;122(11):349. **(Ger)**

[Percutaneous endoscopic gastrostomy in patients with swallowing difficulties––home care and long–term result] Yamashiro K, et al. **Nippon Ronen Igakkai Zasshi** 1996 Sep; 33(9):662–8 (Eng. Abstr.) **(Jpn)**

[Motility deficits in Roux–loop gastrojejunal reconstruction after the surgical treatment of reflux diseases (the Roux stasis syndrome)] Mateş IN, et al. **Chirurgia (Bucur)** 1997 May–Jun;92(3):187–98 (50 ref.) (Eng. Abstr.) **(Rum)**

[Delayed reposition of gastrostomy tube using Savary's dilators] López Rosés L, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):569–70 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Gastrostomy tube infections in a community hospital. Pien EC, et al. **Am J Infect Control** 1996 Oct;24(5):353–8 (62 ref.)

Metastatic head and neck cancer to the percutaneous endoscopic gastrostomy exit site: a case report and review of the literature. Schneider AM, et al. **Am Surg** 1997 Jun; 63(6):481–6 (11 ref.)

Ciprofloxacin absorption is impaired in patients given enteral feedings orally and via gastrostomy and jejunostomy tubes. Healy DP, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):6–10

Sigmoid intra–abdominal herniation and volvulus: a rare complication of percutaneous endoscopic gastrostomy tubes. Walker KG, et al. **Br J Surg** 1997 Feb;84(2):221

Prevalence of gastroesophageal reflux in patients who develop pneumonia following percutaneous endoscopic gastrostomy: a 24–hour pH monitoring study. Short TP, et al. **Dysphagia** 1996 Spring;11(2):87–9

Large–bowel obstruction: a complication of percutaneous endoscopic gastrostomy. Mönig SP, et al. **Endoscopy** 1996 Oct;28(8):728

Should we still use button gastrostomy tubes as replacements for percutaneous endoscopic gastrostomy tubes? [letter] van Bergeijk JD, et al. **Endoscopy** 1997 May;29(4):329–30

Complications of percutaneous endoscopic gastrostomy. Petersen TI, et al. **Eur J Surg** 1997 May;163(5):351–6

Complications following percutaneous endoscopic gastrostomy and subsequent catheter replacement in children and young adults. Fox VL, et al. **Gastrointest Endosc** 1997 Jan;45(1):64–71

Another approach to the buried bumper syndrome [letter; comment] Frascio F, et al. **Gastrointest Endosc** 1996 Mar; 43(3):263. Comment on: Gastrointest Endosc 1995 May;41(5):505–8.

Tract savers [letter] Gilman P, et al. **Gastrointest Endosc** 1996 Oct;44(4):512–3

Percutaneous feeding tube changes in long–term–care facility patients. Graham S, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):732–6

Long term complication of button gastrostomy tube. Hellstern PA, et al. **J Ark Med Soc** 1996 Nov;93(6):269–70

Complications and outcome of percutaneous endoscopic gastrostomy in different patient groups. Chowdhury MA, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):835–9

The development of gastroesophageal reflux after percutaneous endoscopic gastrostomy. Isch JA, et al. **J Pediatr Surg** 1997 Feb;32(2):321–2; discussion 322–3

Peritoneal leakage of gastric contents, a rare complication of percutaneous endoscopic gastrostomy. Haslam N, et al. **JPEN J Parenter Enteral Nutr** 1996 Nov–Dec;20(6):433–4

Low serum albumin and increased risk of mortality after percutaneous endoscopic gastrostomy: surprised? [editorial; comment] Kirby DF. **JPEN J Parenter Enteral Nutr** 1997 Mar–Apr;21(2):53–4. Comment on: JPEN J Parenter Enteral Nutr 1997 Mar–Apr;21(2):72–4.

A complication of T–fasteners in percutaneous endoscopic gastrostomy (PEG) placement. Collure DW, et al. **Surg Endosc** 1996 Sep;10(9):938–9

Drain site evisceration of the appendix: report of a case. Duraker N, et al. **Surg Today** 1997;27(7):651–2

[Diarrhea following the replacement of percutaneous endoscopic gastrostomy tube: to think of gastrocolic fistula (letter)] Hudziak H, et al. **Gastroenterol Clin Biol** 1996; 20(12):1139–40 **(Fre)**

[The buried gastrostomy bumper syndrome] Fireman Z, et al. **Harefuah** 1996 Aug;131(3–4):92–3, 143 (Eng. Abstr.) **(Heb)**

INSTRUMENTATION

Utilization of an esophageal stent for subsequent placement of a percutaneous endoscopic gastrostomy tube. Seibert DG, et al. **Am J Gastroenterol** 1997 Jun;92(6):1048–50

Replacement of gastrostomy tube [letter] Waldstreicher S. **Am J Gastroenterol** 1997 Apr;92(4):728

Laparoscopy aided gastrostomy in children. Andersson L, et al. **Ann Chir Gynaecol** 1997;86(1):19–22

Should we still use button gastrostomy tubes as replacements for percutaneous endoscopic gastrostomy tubes? [letter] van Bergeijk JD, et al. **Endoscopy** 1997 May;29(4):329–30

Percutaneous endoscopic gastrojejunal tube placement. Berger WL, et al. **Gastrointest Endosc** 1996 Jan;43(1):63–6 (28 ref.)

Long–term gastric access: caveat medicus [editorial] Gauderer MW. **Gastrointest Endosc** 1996 Sep;44(3):356–8

Complicated PEG–to–skin level gastrostomy conversions: analysis of risk factors for tract disruption [see comments] Romero R, et al. **Gastrointest Endosc** 1996 Sep;44(3):230–4 . Comment in: Gastrointest Endosc 1997 Jun;45(6):538–40.

Nonendoscopic removal of percutaneous endoscopic gastrostomy tubes: morbidity and mortality in children. Yaseen M, et al. **Gastrointest Endosc** 1996 Sep;44(3):235–8

Endoscopic retrieval of impacted spigot from gastrostomy tube [letter] Rathi P, et al. **Indian J Gastroenterol** 1997 Jul;16(3):120–1

Laparoscopic–assisted gastrostomy in 26 patients: indications and outcome at 2 years. Hin PC. **J Laparoendosc Surg** 1996 Feb;6(1):25–8

The use of percutaneous endoscopic gastrostomy (PEG) feeding tubes in patients with neurological disease. Britton JE, et al. **J Neurol** 1997 Jul;244(7):431–4

A simple technique for changing percutaneous endoscopic gastrostomy tubes. Wong CK, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):334

US–guided percutaneous gastrostomy: a portable technique. Hoffer EK. **J Vasc Interv Radiol** 1996 May–Jun;7(3):431–4

Nonsurgical management of gastric or duodenal perforation from a Wills–Oglesby–type gastrostomy tube. Kanterman RY, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):737–41

Single–stage percutaneous gastrostomy button insertion: a leap forward. Griffiths M. **JPEN J Parenter Enteral Nutr** 1996 May–Jun;20(3):237–9

Laparoscopically assisted percutaneous endoscopic gastrostomy. Croaker GD, et al. **Pediatr Surg Int** 1997 Feb; 12(2–3):130–1

Percutaneous endoscopic gastrostomy with T–bar fixation in children. Boswell WC, et al. **Surg Laparosc Endosc** 1996 Aug;6(4):262–5

[Removal of by percutaneous endoscopy implanted gastrostomy tubes (letter; comment)] Becker M. **Chirurg** 1996 Dec;67(12):1287. Comment on: Chirurg 1996 May;67(5):552–5. **(Ger)**

[The "buried bumper" syndrome––a rare complication of percutaneous endoscopic gastrostomy] Gawenda M, et al. **Chirurg** 1996 Jul;67(7):752–3 (Eng. Abstr.) **(Ger)**

[Removal of endoscopic percutaneously implanted gastrostomy tubes. Comment on the contribution by H. Seitz et al. (letter)] Rückauer K, et al. **Chirurg** 1997 Apr; 68(4):447 **(Ger)**

[Complications of percutaneous endoscopic gastrostomy (PEG)] Drochner U, et al. **Leber Magen Darm** 1996 Sep; 26(5):263–6 (Eng. Abstr.) **(Ger)**

[Experiences with a vent button system in endoscopic and surgical gastrostomy] Peitgen K, et al. **Zentralbl Chir** 1997; 122(5):344–8 (Eng. Abstr.) **(Ger)**

[Percutaneous endoscopic gastrostomy in patients with head and neck neoplasms. Evaluation of a new gastrostomy Dolfo W, et al. **G E N** 1995 Oct–Dec;49(4):278–85 (Eng. Abstr.) **(Spa)**

METHODS

Percutaneous gastrostomy: a radiological alternative? Vingan HL. **Am J Gastroenterol** 1996 Oct;91(10):2247–8

Once is enough. Wootton FT 3rd. **Am J Gastroenterol** 1997 Jun;92(6):1066–7

Laparoscopic gastrostomy and jejunostomy are safe and effective for obtaining enteral access. Murayama KM, et al. **Am J Surg** 1996 Nov;172(5):591–4; discussion 594–5

Single–layer continuous suture for gastrojejunostomy. Brodsky JT, et al. **Am Surg** 1997 May;63(5):395–8

Modifications of Bishop's method for pediatric gastrostomy closure. Shorter NA, et al. **Am Surg** 1997 Jun;63(6):559–60

Experience of percutaneous endoscopic gastrostomy in children with Crohn's disease. Cosgrove M, et al. **Arch Dis Child** 1997 Feb;76(2):141–3

Stomach–partitioning gastrojejunostomy for unresectable gastric carcinoma. Kaminishi M, et al. **Arch Surg** 1997 Feb; 132(2):184–7

Simple technique for pancreatogastrostomy and the histological findings of pancreatogastric anastomosis. Yamamoto J, et al. **Arch Surg** 1997 Jul;132(7):785–8 (08 ref.)

Percutaneous endoscopic gastrostomy without an antireflux procedure in neurologically disabled children. Borowitz SM, et al. **Clin Pediatr (Phila)** 1997 Jan;36(1):25–9

PEG––is the E necessary? A comparison of percutaneous and endoscopic gastrostomy [letter; comment] Lee MJ. **Clin Radiol** 1997 Jan;52(1):77. Comment on: Clin Radiol 1996 May;51(5):341–4.

PEG––is the E necessary? [letter; comment] Murphy BL, et al. **Clin Radiol** 1996 Oct;51(10):742–3. Comment on: Clin Radiol 1996 May;51(5):341–4.

PEG––is the E necessary? [letter; comment] Orme R. **Clin Radiol** 1996 Nov;51(11):820–1. Comment on: Clin Radiol 1996 May;51(5):341–4.

Nutritional management of the disabled child: the role of percutaneous endoscopic gastrostomy. Eltumi M, et al. **Dev Med Child Neurol** 1997 Jan;39(1):66–8 (33 ref.)

External light source visualization in percutaneous endoscopic gastrostomy tube placement. Badov D, et al. **Endoscopy** 1996 Oct;28(8):732–3

Extracorporeal bypassing of a partial obstruction of the afferent loop by percutaneous endoscopic jejunostomy and gastrostomy. Caca K, et al. **Endoscopy** 1997 Feb; 29(2):142–3

Percutaneous endoscopic gastrostomy placement using the pull–through or push–through techniques: is the second pass of the gastroscope necessary? Sartori S, et al. **Endoscopy** 1996 Oct;28(8):686–8

Transnasal percutaneous endoscopic gastrostomy. Taller A, et al. **Endoscopy** 1997 May;29(4):337

Nurse endoscopists and percutaneous endoscopic gastrostomy (PEG) insertion [letter; comment] Stewart JA, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):93. Comment on: Eur J Gastroenterol Hepatol 1996 Jul;8(7):623–4. Comment on: Eur J Gastroenterol Hepatol 1996 Jul;8(7):631–4.

End–to–side and end–to–end anastomoses give similar results in cervical oesophagogastrostomy. Pierie JP, et al. **Eur J Surg** 1995 Dec;161(12):893–6

Percutaneous endoscopic gastrostomy: a randomized prospective comparison of early and delayed feeding. Choudhry U, et al. **Gastrointest Endosc** 1996 Aug; 44(2):164–7

Percutaneous endoscopic gastrostomy/jejunostomy (PEG/PEJ) tube placement: a novel approach. Leichus L, et al. **Gastrointest Endosc** 1997 Jan;45(1):79–81

Complicated PEG–to–skin level gastrostomy conversions: analysis of risk factors for tract disruption [see comments] Romero R, et al. **Gastrointest Endosc** 1996 Sep;44(3):230–4 . Comment in: Gastrointest Endosc 1997 Jun;45(6):538–40.

Technique for placement of one–stage gastrostomy button [letter; comment] Strodel WG. **Gastrointest Endosc** 1996 Jun;43(6):629–30. Comment on: Gastrointest Endosc 1995 Feb;41(2):105–8.

Modification of the PEG procedure to facilitate reinsertion of the gastroscope [letter] Vecchio J. **Gastrointest Endosc** 1996 Nov;44(5):637

Laparoscopic Janeway gastrostomy: an alternative to celiotomy for the management of a dislodged percutaneous gastrostomy. Molloy M, et al. **J Am Coll Surg** 1997 Aug; 185(2):187–9

Diagnostic and therapeutic endoscopy through the gastrostomy site. Ramirez FC, et al. **J Clin Gastroenterol** 1997 Mar;24(2):113–5

External biliary jejunal drainage through a percutaneous endoscopic gastrostomy for tube-fed patients with obstructive jaundice. Tokumo H, et al. **J Clin Gastroenterol** 1997 Mar;24(2):103–5

Long-term outcomes of patients receiving percutaneous endoscopic gastrostomy tubes. Rabeneck L, et al. **J Gen Intern Med** 1996 May;11(5):287–93

Laparoscopic jaboulay gastroduodenostomy for gastric outlet obstruction: a case report. Frantzides CT, et al. **J Laparoendosc Surg** 1996 Oct;6(5):341–4

A simple technique for changing percutaneous endoscopic gastrostomy tubes. Wong CK, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):334

Laparoscopic thal fundoplication with gastrostomy in children. Martinez-Frontanilla LA, et al. **J Pediatr Surg** 1996 Feb;31(2):275–6

Percutaneous endoscopic gastrostomy in a military hospital. Salam I, et al. **J R Army Med Corps** 1994 Jun;140(2):86–9

Percutaneous feeding tube placement in pediatric patients: immediate and 30-day results. Marx MV, et al. **J Vasc Interv Radiol** 1996 Jan-Feb;7(1):107–15

Early percutaneous endoscopic gastrostomy (PEG). A safe and effective enteral feeding technique in neurologic intensive care unit. De Vivo P, et al. **Minerva Anestesiol** 1996 Jun;62(6):197–201

Percutaneous endoscopic gastrostomy for feeding. A comparison between neurologic and neoplastic indications. Pucciarelli S, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Sep-Oct;58(5):253–7

The non-refluxing gastrostomy: an evaluation. Bianchi A, et al. **Pediatr Surg Int** 1997 Sep;12(7):494–6

Laparoscopic gastrostomy in children. Humphrey GM, et al. **Pediatr Surg Int** 1997 Sep;12(7):501–4

Percutaneous endoscopic gastrostomy. Hussain A, et al. **Postgrad Med J** 1996 Oct;72(852):581–5 (6 ref.)

Percutaneous endoscopic gastrostomies: are they being done for the right reasons? [editorial] Tham TC, et al. **QJM** 1997 Aug;90(8):495–6

Retrograde percutaneous gastrostomy and gastrojejunostomy in 505 children: a 4 1/2-year experience. Chait PG, et al. **Radiology** 1996 Dec;201(3):691–5

Percutaneous gastrostomy with T-fastener gastropexy: results of 316 consecutive procedures. Ryan JM, et al. **Radiology** 1997 May;203(2):496–500

Percutaneous endoscopic gastrostomy (PEG). 8 years of clinical experience in 232 patients. Amann W, et al. **Surg Endosc** 1997 Jul;11(7):741–4

Palliative gastrojejunostomy. A minimally invasive approach. Chung RS, et al. **Surg Endosc** 1997 Jun;11(6):676–8

First results of laparoscopic gastrostomy. Peitgen K, et al. **Surg Endosc** 1997 Jun;11(6):658–62

Laparoscopic gastrostomy as an adjunctive procedure to laparoscopic fundoplication in children. Sampson LK, et al. **Surg Endosc** 1996 Nov;10(11):1106–10

Minimally invasive tube gastrostomy. Barr LL. **Surg Laparosc Endosc** 1997 Aug;7(4):285–7

Percutaneous endoscopic gastrostomy with T-bar fixation in children. Boswell WC, et al. **Surg Laparosc Endosc** 1996 Aug;6(4):262–5

Transthoracic percutaneous endoscopic gastrostomy (PEG) after esophagectomy and gastric pull-up. Heitmiller RF, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):351–3

Analysis of results of surgery performed over a 20-year period on 500 patients with cancer of the thoracic esophagus. Abo S, et al. **Surg Today** 1996;26(2):77–82

Randomized trial of three types of gastrojejunostomy in unresectable periampullary cancer. Shyr YM, et al. **Surgery** 1997 May;121(5):506–12

Experiences with percutaneous endoscopic gastrostomy. Gutt CN, et al. **World J Surg** 1996 Oct;20(8):1006–8; discussion 1108–9

[Initial experience with percutaneous endoscopic gastrostomy in a surgery department] Piskač P, et al. **Rozhl Chir** 1997 Jan;76(1):25–7 (Eng. Abstr.) **(Cze)**

[Favorable results of percutaneous endoscopic gastrostomy in children in need of long-term tube feeding] Bergmeijer JH, et al. **Ned Tijdschr Geneeskd** 1997 Feb 1;141(5):241–3 (Eng. Abstr.) **(Dut)**

[Percutaneous gastrostomy: method combining digestive endoscopy and mini-laparotomy (letter)] Letard JC, et al. **Gastroenterol Clin Biol** 1997;21(5):434–5 **(Fre)**

[Endoscopic repositioning of the upside-down stomach and its fixation by percutaneous endoscopic gastrostomy] Januschowski R. **Dtsch Med Wochenschr** 1996 Oct 11; 121(41):1261–4 (19 ref.) (Eng. Abstr.) **(Ger)**

[Percutaneous endoscopic gastrostomy (letter; comment)] Lichterbeck E. **Dtsch Med Wochenschr** 1997 Mar 14; 122(11):349. Comment on: Dtsch Med Wochenschr 1996 Sep 13;121(37):1141. **(Ger)**

[Postoperative percutaneous endoscopic gastrostomy/jejunostomy] Szántó I, et al. **Orv Hetil** 1997 May 4;138(18):1133–6 (Eng. Abstr.) **(Hun)**

[Treatment of the residual pancreatic stump after pancreatoduodenectomy: pancreatogastrostomy] Catania G, et al. **G Chir** 1996 Aug-Sep;17(8-9):425–30 (54 ref.) (Eng. Abstr.) **(Ita)**

[A comparative analysis of transverse and longitudinal gastrojejunostomies in the late period after a Bilroth-II gastric resection] Podoluzhnyĭ VI, et al. **Vestn Khir Im I I Grek** 1996;155(2):18–9 (Eng. Abstr.) **(Rus)**

[Fluoroscopy-controlled percutaneous gastrostomy in ambulatory care. Our experience] Górriz E, et al. **Nutr Hosp** 1996 May-Jun;11(3):195–9 (Eng. Abstr.) **(Spa)**

[Direct percutaneous endoscopic jejunostomy, variation of the technique of gastrostomy] Sánchez-Pobre P, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):865–7 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

The multiple meanings of long-term gastrostomy in children with severe disability. Thorne SE, et al. **J Pediatr Nurs** 1997 Apr;12(2):89–99

STANDARDS

Serum albumin is predictive of 30-day survival after percutaneous endoscopic gastrostomy [see comments] Friedenberg F, et al. **JPEN J Parenter Enteral Nutr** 1997 Mar-Apr;21(2):72–4. Comment in: JPEN J Parenter Enteral Nutr 1997 Mar-Apr;21(2):53–4.

VETERINARY

Nutritional support for rabbits using the percutaneously placed gastrostomy tube: a preliminary study. Smith DA, et al. **J Am Anim Hosp Assoc** 1997 Jan-Feb;33(1):48–54

Nonendoscopic antegrade percutaneous gastrostomy: the effect of preplacement gastric insufflation on tube position and intra-abdominal anatomy. Clary EM, et al. **J Vet Intern Med** 1996 Jan-Feb;10(1):15–20

Evaluation of percutaneous gastrostomy as a technique for permanent gastropexy. Waschak MJ, et al. **Vet Surg** 1997 May-Jun;26(3):235–41

GASTRULA

The initial phase of gastrulation in sea urchins is accompanied by the formation of bottle cells. Nakajima Y, et al. **Dev Biol** 1996 Nov 1;179(2):436–46

Cell proliferation in mammalian gastrulation: the ventral node and notochord are relatively quiescent. Bellomo D, et al. **Dev Dyn** 1996 Apr;205(4):471–85

Each member of the Id gene family exhibits a unique expression pattern in mouse gastrulation and neurogenesis. Jen Y, et al. **Dev Dyn** 1997 Jan;208(1):92–106

Expression cloning of a Xenopus T-related gene (Xombi) involved in mesodermal patterning and blastopore lip formation. Lustig KD, et al. **Development** 1996 Dec; 122(12):4001–12

The Nf2 tumor suppressor gene product is essential for extraembryonic development immediately prior to gastrulation. McClatchey AI, et al. **Genes Dev** 1997 May 15;11(10):1253–65

Physical analysis of the region deleted in the tw18 allele of the mouse tcl-4 complementation group. Barclay J, et al. **Genomics** 1996 Aug 15;36(1):39–46

Lockwood on human identity and the primitive streak [see comments] Howsepian AA. **J Med Ethics** 1997 Feb; 23(1):38–41. Comment in: J Med Ethics 1997 Feb;23(1):42–4.

Of persons and organisms: a reply to Howsepian [comment] Lockwood M. **J Med Ethics** 1997 Feb;23(1):42–4. Comment on: J Med Ethics 1997 Feb;23(1):38–41.

CHEMISTRY

OTX2 homeoprotein in the developing central nervous system and migratory cells of the olfactory area. Mallamaci A, et al. **Mech Dev** 1996 Aug;58(1-2):165–78

CYTOLOGY

Patterns of cell death during gastrulation in chick and mouse embryos. Sanders EJ, et al. **Anat Embryol (Berl)** 1997 Feb; 195(2):147–54

The allocation of epiblast cells to ectodermal and germ-line lineages is influenced by the position of the cells in the gastrulating mouse embryo. Tam PP, et al. **Dev Biol** 1996 Aug 25;178(1):124–32

Apoptosis removes chick embryo tail gut and remnant of the primitive streak. Miller SA, et al. **Dev Dyn** 1996 Jun; 206(2):212–8

Direct evidence of an essential role for extended involution in the specification of a dorsal marginal mesoderm during Cynops gastrulation. Suzuki AS, et al. **Dev Growth Differ** 1997 Apr;39(2):135–41

Mutations affecting cell fates and cellular rearrangements during gastrulation in zebrafish. Solnica-Krezel L, et al. **Development** 1996 Dec;123:67–80

Developmentally regulated activation of apoptosis early in Xenopus gastrulation results in cyclin A degradation during interphase of the cell cycle. Stack JH, et al. **Development** 1997 Aug;124(16):3185–95

nodal expression in the primitive endoderm is required for specification of the anterior axis during mouse gastrulation. Varlet I, et al. **Development** 1997 Mar;124(5):1033–44

In vitro analysis of potency restriction during epiblast differentiation. Kanatsu M, et al. **Leukemia** 1997 Apr;11 Suppl 3:457–9

Dorsal or ventral: similarities in fate maps and gastrulation patterns in annelids, arthropods and chordates. Arendt D, et al. **Mech Dev** 1997 Jan;61(1-2):7–21 (97 ref.)

Cell fate and morphogenetic movement in the late mouse primitive streak. Wilson V, et al. **Mech Dev** 1996 Mar; 55(1):79–89

Primordial germ cell development in avians. Ginsburg M. **Poult Sci** 1997 Jan;76(1):91–5 (23 ref.)

Rat embryonic stem cells: a progress report. Brenin D, et al. **Transplant Proc** 1997 May;29(3):1761–5 (29 ref.)

[The morphogenetic reactions of the ectoderm in the early gastrula of the clawed toad to mechanical stretching] Luchinskaia NN, et al. **Ontogenez** 1997 Mar-Apr; 28(2):106–16 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

LiCl perturbs ectodermal veg1 lineage allocations in Strongylocentrotus purpuratus embryos. Cameron RA, et al. **Dev Biol** 1997 Jul 15;187(2):236–9

Onset of C. elegans gastrulation is blocked by inhibition of embryonic transcription with an RNA polymerase antisense RNA. Powell-Coffman JA, et al. **Dev Biol** 1996 Sep 15; 178(2):472–83

Hapten inhibitors of the endogenous galactose binding lectins and anti-lectin antibodies inhibit primitive streak formation in the early chick embryo. Jeeva J, et al. **Glycobiology** 1996 Jul;6(5):517–26

ENZYMOLOGY

Genetic evidence that glycolysis is necessary for gastrulation in the mouse. Kelly A, et al. **Dev Dyn** 1996 Nov; 207(3):300–8

Inhibition of gastrulation in Xenopus embryos by an antibody against a cathepsin L-like protease. Miyata S, et al. **Dev Growth Differ** 1997 Feb;39(1):111–5

METABOLISM

A member of the Met/HGF-receptor family is expressed in a BMP-4-like pattern in the ectoderm of Xenopus gastrulae. Aberger F, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):191–5

Alternative splicing of the Endo16 transcript produces differentially expressed mRNAs during sea urchin gastrulation. Godin RE, et al. **Dev Biol** 1996 Oct 10; 179(1):148–59

MesP1: a novel basic helix-loop-helix protein expressed in the nascent mesodermal cells during mouse gastrulation. Saga Y, et al. **Development** 1996 Sep;122(9):2769–78

Developmentally regulated activation of apoptosis early in Xenopus gastrulation results in cyclin A degradation during interphase of the cell cycle. Stack JH, et al. **Development** 1997 Aug;124(16):3185–95

The Xenopus homologue of hepatocyte growth factor-like protein is specifically expressed in the presumptive neural plate during gastrulation. Aberger F, et al. **Mech Dev** 1996 Jan;54(1):23–37

Distinct regulatory control of the Brachyury gene in axial and non-axial mesoderm suggests separation of mesoderm lineages early in mouse gastrulation. Clements D, et al. **Mech Dev** 1996 May;56(1-2):139–49

Graded effect of tailless on posterior gut development: molecular basis of an allelic series of a nuclear receptor gene. Diaz RJ, et al. **Mech Dev** 1996 Jan;54(1):119–30

PHYSIOLOGY

Patterns of cell death during gastrulation in chick and mouse embryos. Sanders EJ, et al. **Anat Embryol (Berl)** 1997 Feb; 195(2):147–54

Activation of Pak by membrane localization mediated by an SH3 domain from the adaptor protein Nck. Lu W, et al. **Curr Biol** 1997 Feb 1;7(2):85–94

Tbx6, a mouse T-Box gene implicated in paraxial mesoderm formation at gastrulation. Chapman DL, et al. **Dev Biol** 1996 Dec 15;180(2):534–42

State of commitment of prospective neural plate and prospective mesoderm in late gastrula/early neurula stages of avian embryos. Garcia-Martinez V, et al. **Dev Biol** 1997 Jan 1;181(1):102–15

Retinoic acid directs cardiac laterality and the expression of early markers of precardiac asymmetry. Smith SM, et al. **Dev Biol** 1997 Feb 1;182(1):162–71

Differentiation potencies of isolated parts of the urodele gastrula, by J. Holtfreter. Hamburger V. **Dev Dyn** 1996 Mar;205(3):223–44

Differentiation potencies of isolated parts of the anuran gastrula, by J. Holtfreter. Hamburger V. **Dev Dyn** 1996 Mar;205(3):217–22

Holtfreter revisited: unsolved problems in amphibian morphogenesis. Keller R. **Dev Dyn** 1996 Mar;205(3):257–64 (16 ref.)

Genetic evidence that glycolysis is necessary for gastrulation in the mouse. Kelly A, et al. **Dev Dyn** 1996 Nov; 207(3):300–8

Expression of Pax-3 is initiated in the early neural plate by posteriorizing signals produced by the organizer and by posterior non-axial mesoderm. Bang AG, et al. **Development** 1997 May;124(10):2075–85

Murine gastrulation requires HNF-4 regulated gene expression in the visceral endoderm: tetraploid rescue of Hnf-4(-/-) embryos. Duncan SA, et al. **Development** 1997 Jan;124(2):279–87

Wnt-11 is expressed in early avian mesoderm and required

for the differentiation of the quail mesoderm cell line QCE-6. Eisenberg CA, et al. **Development** 1997 Jan; 124(2):525–36

Mutations affecting morphogenesis during gastrulation and tail formation in the zebrafish, Danio rerio. Hammerschmidt M, et al. **Development** 1996 Dec; 123:143–51

Direct neural induction and selective inhibition of mesoderm and epidermis inducers by Xnr3. Hansen CS, et al. **Development** 1997 Jan;124(2):483–92

Two novel chick T-box genes related to mouse Brachyury are expressed in different, non-overlapping mesodermal domains during gastrulation. Knezevic V, et al. **Development** 1997 Jan;124(2):411–9

Transgenic Xenopus embryos from sperm nuclear transplantations reveal FGF signaling requirements during gastrulation. Kroll KL, et al. **Development** 1996 Oct; 122(10):3173–83

Disruption of gastrulation and oral-aboral ectoderm differentiation in the Lytechinus pictus embryo by a dominant/negative PDGF receptor. Ramachandran RK, et al. **Development** 1997 Jun;124(12):2355–64

Integrin-dependent adhesive activity is spatially controlled by inductive signals at gastrulation. Ramos JW, et al. **Development** 1996 Sep;122(9):2873–83

A differential display strategy identifies Cryptic, a novel EGF-related gene expressed in the axial and lateral mesoderm during mouse gastrulation. Shen MM, et al. **Development** 1997 Jan;124(2):429–42

Mutations affecting cell fates and cellular rearrangements during gastrulation in zebrafish. Solnica-Krezel L, et al. **Development** 1996 Dec;123:67–80

The allocation of epiblast cells to the embryonic heart and other mesodermal lineages: the role of ingression and tissue movement during gastrulation. Tam PP, et al. **Development** 1997 May;124(9):1631–42

Mesodermal subdivision along the mediolateral axis in chicken controlled by different concentrations of BMP-4. Tonegawa A, et al. **Development** 1997 May;124(10):1975–84

XIPOU 2 is a potential regulator of Spemann's Organizer. Witta SE, et al. **Development** 1997 Mar;124(6):1179–89

Xenopus cytochrome b561: molecular confirmation of a general five transmembrane structure and developmental regulation at the gastrula stage. Srivastava M. **DNA Cell Biol** 1996 Dec;15(12):1075–80

Avian gastrulation and neurulation are not impaired by the removal of the marginal zone at the unincubated blastoderm stage. Callebaut M, et al. **Eur J Morphol** 1997 Apr;35(2):69–77

Evidence for the presence and participation of 85-75 KDa extracellular matrix components in cell interactions of Bufo arenarum gastrulation. Genta SB, et al. **J Exp Zool** 1997 Feb 15;277(3):181–97

Dominant negative expression of a cytoplasmically deleted mutant of XB/U-cadherin disturbs mesoderm migration during gastrulation in Xenopus laevis. Kühl M, et al. **Mech Dev** 1996 Jan;54(1):71–82

Induction and differentiation of extra-embryonic mesoderm in the mouse. Boucher DM, et al. **Reprod Fertil Dev** 1996; 8(4):765–77 (121 ref.)

Specification of the zebrafish nervous system by nonaxial signals. Woo K, et al. **Science** 1997 Jul 11;277(5323):254–7

Rat embryonic stem cells: a progress report. Brenin D, et al. **Transplant Proc** 1997 May;29(3):1761–5 (29 ref.)

[Induction of autonomously contracting muscle cells in the gastrula ectoderm by live cardiomyocytes from adult frogs] Golubeva ON, et al. **Dokl Akad Nauk** 1996 Jun; 348(4):560–3 **(Rus)**

ULTRASTRUCTURE

Structure and cytoskeletal organization of migratory mesoderm cells from the Xenopus gastrula. Selchow A, et al. **Cell Motil Cytoskeleton** 1997;36(1):12–29

GATED BLOOD-POOL IMAGING

Comparison of echocardiographic acoustic quantification system and radionuclide ventriculography for estimating left ventricular ejection fraction: validation in patients without regional wall motion abnormalities. Chandra S, et al. **Am Heart J** 1997 Mar;133(3):359–63

Predictive value of left ventricular response to exercise in patients with dilated cardiomyopathy--assessment by radionuclide ventriculography. Suzuki T, et al. **Angiology** 1997 Jun;48(6):497–502

Left ventricular function in insulin-dependent and in non-insulin-dependent diabetic patients: radionuclide assessment. Astorri E, et al. **Cardiology** 1997 Mar-Apr; 88(2):152–5

Comparison of adenosine, dobutamine, and exercise radionuclide ventriculography in the detection of coronary artery disease. Nagaoka H, et al. **Cardiology** 1997 Mar-Apr; 88(2):180–8

Mediastinal tumor presenting as a cardiac halo on equilibrium radionuclide angiography. A differential diagnosis to pericardial effusion. Better N, et al. **Clin Nucl Med** 1996 Apr;21(4):334–5

Determination of systolic thickening index with gated Tc-99m sestamibi SPECT. A new parameter of myocardial viability? Hambye AS, et al. **Clin Nucl Med** 1997 Mar; 22(3):172–5

Non-invasive measurement of left ventricular volumes and function by gated positron emission tomography. Boyd HL, et al. **Eur J Nucl Med** 1996 Dec;23(12):1594–602

Assessment of left ventricular function: comparison between radionuclide angiography and semiquantitative two-dimensional echocardiographic analysis. Gottsauner-Wolf M, et al. **Eur J Nucl Med** 1996 Dec; 23(12):1613–8

Validation of a knowledge-based boundary detection algorithm: a multicenter study. Groch MW, et al. **Eur J Nucl Med** 1996 Jun;23(6):662–8

Efficient computation of amplitude and phase maps in nuclear medicine equilibrium-gated cardiac studies. Vaquero JJ, et al. **IEEE Trans Biomed Eng** 1997 Mar;44(3):213–5

Prominent atrial wave and diastasis deflection in the radionuclide diastolic volume curve during exercise--sensitive marker for coronary artery disease. Klainman E, et al. **Int J Cardiol** 1996 Aug;55(3):271–6

Assessment of left ventricular dimensions and functions in athletes and sedentary subjects at rest and during exercise using echocardiography, Doppler sonography and radionuclide ventriculography. Huonker M, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S173–9 (64 ref.)

Quasi-3D kinematic modeling and parametric image processing of a multiframe ECG-gated planar 99mTc-SestaMIBI myocardial perfusion scintigraphic study. Jangid DR. **J Digit Imaging** 1997 Aug;10(3 Suppl 1):197–202

Evaluation of left ventricular ejection fraction from 99m Tc sestamibi gated SPECT. Tocharoenchai C, et al. **J Med Assoc Thai** 1996 Sep;79(9):596–600

Imaging guidelines for nuclear cardiology procedures. American Society of Nuclear Cardiology. Equilibrium gated blood pool imaging protocols. **J Nucl Cardiol** 1996 May-Jun;3(3):G26–9

Early treatment with low-dose enalapril after acute myocardial infarction: an equilibrium radionuclide angiographic study. Enalapril despues del Infarto (EDI) Trial Investigators. Bazzino O, et al. **J Nucl Cardiol** 1997 Mar-Apr;4(2 Pt 1):133–9

Assessment of the optimal atrioventricular delay in dual chamber-paced patients by a portable scintillation probe (VEST). Mortelmans L, et al. **J Nucl Cardiol** 1996 Jul-Aug; 3(4):321–6

Left ventricular ejection fraction: comparison of results from planar and SPECT gated blood-pool studies. Bartlett ML, et al. **J Nucl Med** 1996 Nov;37(11):1795–9

Myocardial perfusion and function imaging at rest with simultaneous thallium-201 and technetium-99m blood-pool dual-isotope gated SPECT. Constantinesco A, et al. **J Nucl Med** 1997 Mar;38(3):432–7

Quantitative LVEF and qualitative regional function from gated thallium-201 perfusion SPECT. Germano G, et al. **J Nucl Med** 1997 May;38(5):749–54

Assessment of left ventricular volume using ECG-gated SPECT with technetium-99m-MIBI and technetium-99m-tetrofosmin. Mochizuki T, et al. **J Nucl Med** 1997 Jan;38(1):53–7

Clinical decision making based on radionuclide determined ejection fraction in oncology patients. Peng NJ, et al. **J Nucl Med** 1997 May;38(5):702–5

Severe right ventricular contraction asynchronism revealing a large pericardial effusion. Roy S, et al. **J Nucl Med** 1997 May;38(5):777–9

Evaluation of lossy compression techniques [letter; comment] Gell G. **MD Comput** 1996 Nov-Dec;13(6):472, 474. Comment on: MD Comput 1996 Mar-Apr;13(2):155–9, 172.

99Tcm-dimercaptopropionyl-HSA prepared from a labelling kit: preliminary investigations as a blood pool agent. Cambier JP, et al. **Nucl Med Commun** 1997 Jan;18(1):31–7

A variable threshold edge-detector for improved quantitation of gated tomographic imaging of the left ventricular blood pool. McKiddie FI, et al. **Nucl Med Commun** 1996 May; 17(5):410–7

[Left ventricular function in patients with chronic ischemic cardiopathy: relationship with the status of myocardial perfusion] Sullo P, et al. **Radiol Med (Torino)** 1996 Dec; 92(6):778–81 (Eng. Abstr.) **(Ita)**

[Assessment of left ventricular systolic function derived from ECG-gated myocardial SPECT with 99mTc-tetrofosmin: automatic determination of LV epi- and endocardial surface] Kumita S, et al. **Kaku Igaku** 1997 Apr;34(4):237–42 (Eng. Abstr.) **(Jpn)**

[ECG-gated dual-isotope myocardial SPECT with 201Tl and 99mTc-tetrofosmin: simultaneous assessment of stress/rest myocardial perfusion and left ventricular function] Kumita S, et al. **Kaku Igaku** 1996 Nov; 33(11):1189–96 (Eng. Abstr.) **(Jpn)**

[Imaging of cardiac blood pool] Machida K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:662–5 (8 ref.) **(Jpn)**

METHODS

Functional imaging of gated Tc-99m tetrofosmin study as a simple method to quantify ventricular wall motion. Nakajima K, et al. **Ann Nucl Med** 1997 May;11(2):87–94

Evaluation of left ventricular wall motion and function in patients with previous myocardial infarction by three-dimensional 99mTc-HSAD multigated cardiac pool imaging. Yamazaki J, et al. **Ann Nucl Med** 1997 May; 11(2):129–38

Gadolinium(III) di- and tetrachelates designed for in vivo noncovalent complexation with plasma proteins: a novel molecular design for blood pool MRI contrast enhancing agents. Martin VV, et al. **Bioconjug Chem** 1995 Sep-Oct; 6(5):616–23

Dynamic circular buffering: a technique for equilibrium gated blood pool imaging. Vaquero JJ, et al. **Comput Biol Med** 1996 Mar;26(2):113–21

Evaluation of post-myocardial infarction regional and global left ventricular function by monoplane ventriculography: superiority of right versus left anterior oblique projection at any infarct location. Nixdorff U, et al. **Coron Artery Dis** 1996 Dec;7(12):885–93

Assessment of diastolic left ventricular filling by echocardiographic automated border detection and comparison with radionuclide ventriculography. Vitarelli A, et al. **J Am Soc Echocardiogr** 1996 Mar-Apr;9(2):135–46

Asymptomatic coronary artery disease detection: update 1996. A screening protocol using 16-lead high-resolution ECG, ultrafast CT, exercise testing, and radionuclear imaging. Selvester RH, et al. **J Electrocardiol** 1996;29 Suppl:135–44 (77 ref.)

Right and left ventricular volume and ejection fraction by tomographic gated blood-pool scintigraphy. Chin BB, et al. **J Nucl Med** 1997 Jun;38(6):942–8

Ultratag RBC kit for combined cardiac first-pass and multigated acquisition studies. Stallings LE, et al. **J Nucl Med Technol** 1997 Mar;25(1):44–8

PEG-coated lipid vesicles with encapsulated technetium-99m as blood pool agents for nuclear medicine. Tilcock C, et al. **Nucl Med Biol** 1994 Feb;21(2):165–70

[Calculation of left ventricular volume and ejection fraction from ECG-gated myocardial SPECT: automatic detection of endocardial borders by threshold method] Fukushi S, et al. **Kaku Igaku** 1997 Jan;34(1):1–6 (Eng. Abstr.) **(Jpn)**

[A new approach to eliminate background count from gated blood pool image (iterative constant subtraction method). Part 1: Principle and technique] Matsudaira M, et al. **Kaku Igaku** 1996 Oct;33(10):1053–63 (Eng. Abstr.) **(Jpn)**

GATED BLOOD-POOL SCINTIGRAPHY see **GATED BLOOD-POOL IMAGING**

GATED EQUILIBRIUM BLOOD-POOL SCINTIGRAPHY see **GATED BLOOD-POOL IMAGING**

GATEKEEPERS, HEALTH SERVICE see **REFERRAL AND CONSULTATION**

GATING, ION CHANNEL see **ION CHANNEL GATING**

GAUCHER'S DISEASE

New perspectives in type 2 Gaucher disease. Sidransky E. **Adv Pediatr** 1997;44:73–107 (129 ref.)

Gaucher disease: a prototype for molecular medicine. Grabowski GA, et al. **Crit Rev Oncol Hematol** 1996 May; 23(1):25–55 (315 ref.)

Gaucher's disease in pregnancy. Rosnes JS, et al. **Obstet Gynecol Surv** 1996 Sep;51(9):549–58 (78 ref.)

BLOOD

Plasma tumor necrosis factor-a (TNF-a) levels in Gaucher disease. Michelakakis H, et al. **Biochim Biophys Acta** 1996 Dec 16;1317(3):219–22

Coagulation abnormalities in type 1 Gaucher disease are due to low-grade activation and can be partly restored by enzyme supplementation therapy. Hollak CE, et al. **Br J Haematol** 1997 Mar;96(3):470–6

Plasma chitotriosidase activity in Gaucher disease patients who have been treated either by bone marrow transplantation or by enzyme replacement therapy with alglucerase. Young E, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):595–602

Pro-inflammatory cytokines and the pathogenesis of Gaucher's disease: increased release of interleukin-6 and interleukin-10. Allen MJ, et al. **QJM** 1997 Jan;90(1):19–25

COMPLICATIONS

Effect of low-dose enzyme replacement therapy on bones in Gaucher disease patients with severe skeletal involvement. Elstein D, et al. **Blood Cells Mol Dis** 1996; 22(2):104–11; discussion 112–4

Pulmonary involvement in adult Gaucher's disease: high resolution CT appearance. Aydin K, et al. **Br J Radiol** 1997 Jan;70:93–5

Gaucher's disease and pregnancy. Ayhan A, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 May;66(1):69–70 (8 ref.)

Osteoblastoma of the humerus associated with type-I Gaucher's disease. A case report. Kenan S, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):702–5

Torsion of autotransplanted splenic tissue in Gaucher disease. Ando K, et al. **J Pediatr Surg** 1997 May;32(5):747–9

Occurrence of Parkinson's syndrome in type I Gaucher disease. Neudorfer O, et al. **QJM** 1996 Sep;89(9):691–4

A case of type I Gaucher disease with cardiopulmonary amyloidosis and chitotriosidase deficiency. Hřebíček M, et al. **Virchows Arch** 1996 Nov;429(4–5):305–9

[Radiological case of the month. Gaucher's disease: ischemic necrosis of the femoral head] Mhiri M, et al. **Arch Pediatr** 1997 Apr;4(4):370–2 **(Fre)**

DIAGNOSIS

Gaucher's disease initially diagnosed as depression [letter] Clemons J, et al. **Am J Psychiatry** 1997 Feb;154(2):290

Enzymatic and molecular diagnosis of Gaucher disease. Barranger JA, et al. **Clin Lab Med** 1995 Dec;15(4):899–913 (59 ref.)

Use of various diagnostic methods in a patient with Gaucher disease type I. Farahati J, et al. **Clin Nucl Med** 1996 Aug; 21(8):619–25

A 16–year–old girl with epistaxis and hepatosplenomegaly. Woods M, et al. **Curr Opin Pediatr** 1995 Dec;7(6):733–9

Clinical and enzyme studies in Gaucher disease. Kaur M, et al. **Indian Pediatr** 1996 Sep;33(9):735–8

A new diagnostic test for Gaucher disease suitable for population screening. Sakallah SA, et al. **PCR Methods Appl** 1994 Aug;4(1):1–5

[Gaucher's disease in pregnancy] Santana IB, et al. **Acta Med Port** 1997 May;10(5):391–3 (11 ref.) (Eng. Abstr.) **(Por)**

[Male with hepato–splenomegaly, pancytopenia, and pain in the left thigh] Cabezas Agrícola JM, et al. **Rev Clin Esp** 1996 Nov;196(11):785–6 **(Spa)**

[Magnetic resonance in the diagnosis of extent and osseous complications of Gaucher's disease type 1] Roca M, et al. **Rev Clin Esp** 1997 Aug;197(8):550–4 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Pulmonary hypertension in two patients with type I Gaucher disease while on alglucerase therapy. Harats D, et al. **Acta Haematol** 1997;98(1):47–50

Differential effects of enzyme supplementation therapy on manifestations of type 1 Gaucher disease. Hollak CE, et al. **Am J Med** 1997 Sep;103(3):185–91

Pulmonary hypertension developing after alglucerase therapy in two patients with type 1 Gaucher disease complicated by the hepatopulmonary syndrome. Dawson A, et al. **Ann Intern Med** 1996 Dec 1;125(11):901–4

Effective treatment of painful bone crises in type I gaucher's disease with high dose prednisolone. Cohen IJ, et al. **Arch Dis Child** 1996 Sep;75(3):218–22

Plasma methylumbelliferyl–tetra–N–acetyl–beta–d–chitotetraoside hydrolase as a parameter during treatment of gaucher patients [letter] Den Tandt WR, et al. **Biochem Mol Med** 1996 Feb;57(1):71–2

Enzyme therapy in Gaucher disease type 1: effect of neutralizing antibodies to acid beta–glucosidase. Ponce E, et al. **Blood** 1997 Jul 1;90(1):43–8

Gaucher disease: studies of phenotype, molecular diagnosis and treatment. Rice EO, et al. **Clin Genet** 1996 Mar; 49(3):111–8

The effect of enzyme therapy in a patient with Gaucher disease type III. Bosman DK, et al. **J Inherit Metab Dis** 1996;19(5):703–4

Acceleration of retarded growth in children with Gaucher disease after treatment with alglucerase. Kaplan P, et al. **J Pediatr** 1996 Jul;129(1):149–53

Short–term effects of pamidronate in patients with Gaucher's disease and severe skeletal involvement [letter] Ciana G, et al. **N Engl J Med** 1997 Sep 4;337(10):712

Alglucerase (Ceredase). Wiltink EH, et al. **Pharm World Sci** 1996 Jan;18(1):16–9 (12 ref.)

Regression of skeletal changes in type 1 Gaucher disease with enzyme replacement therapy. Pastores GM, et al. **Skeletal Radiol** 1996 Jul;25(5):485–8

[Enzyme therapy in children with severe forms of Gaucher's disease] Zeman J, et al. **Cas Lek Cesk** 1997 Feb 5; 136(3):95–7 (Eng. Abstr.) **(Cze)**

[Enzyme replacement therapy: a new treatment concept in Gaucher disease] Beck M, et al. **Wien Klin Wochenschr** 1997 Feb 14;109(3):81–5 (Eng. Abstr.) **(Ger)**

[Gaucher's disease: results of enzymatic treatment with beta glucosidase acid] Genovés Terol I, et al. **An Esp Pediatr** 1997 Apr;46(4):406–8 **(Spa)**

EMBRYOLOGY

Plasma methylumbelliferyl–tetra–N–acetyl–beta–d–chitotetraoside hydrolase as a parameter during treatment of gaucher patients [letter] Den Tandt WR, et al. **Biochem Mol Med** 1996 Feb;57(1):71–2

ENZYMOLOGY

The glucocerebrosidase D409H mutation in Gaucher disease. Pasmanik–Chor M, et al. **Biochem Mol Med** 1996 Dec; 59(2):125–33

Detection and isolation of gene–corrected cells in Gaucher disease via a fluorescence–activated cell sorter assay for lysosomal glucocerebrosidase activity. Lorincz M, et al. **Blood** 1997 May 1;89(9):3412–20

Type 1 Gaucher disease: identification of N396T and prevalence of glucocerebrosidase mutations in the Portuguese. Amaral O, et al. **Hum Mutat** 1996;8(3):280–1

Glucocerebrosidase (Gaucher disease). Beutler E, et al. **Hum Mutat** 1996;8(3):207–13

Marked increase of methylumbelliferyl–tetra–N–acetylchitotetraoside hydrolase activity in plasma from Gaucher disease patients. den Tandt WR, et al. **J Inherit Metab Dis** 1996;19(3):344–50

Mutation prevalence among 47 unrelated Japanese patients with Gaucher disease: identification of four novel mutations. Ida H, et al. **J Inherit Metab Dis** 1997 Mar; 20(1):67–73

ETHNOLOGY

Identification of two novel and four uncommon missense mutations among chinese Gaucher disease patients. Choy FY, et al. **Am J Med Genet** 1997 Aug 8;71(2):172–8

The molecular characterization of Gaucher disease in South Africa. Morar B, et al. **Clin Genet** 1996 Aug;50(2):78–84

GENETICS

Oculomotor apraxia in a case of Gaucher's disease with homozygous T1448C mutation. Tsai LP, et al. **Acta Paediatr Sin** 1996 Jan–Feb;37(1):52–5

Gaucher disease: functional expression of the normal glucocerebrosidase and Gaucher T1366G and G1604A alleles in Baculovirus–transfected Spodoptera frugiperda cells. Choy FY, et al. **Am J Med Genet** 1996 Oct 28; 65(3):184–9

Identification of two novel and four uncommon missense mutations among chinese Gaucher disease patients. Choy FY, et al. **Am J Med Genet** 1997 Aug 8;71(2):172–8

Novel insertion mutation in a non–Jewish Caucasian type 1 Gaucher disease patient. Choy FY, et al. **Am J Med Genet** 1997 Jan 20;68(2):211–5

Two new mild homozygous mutations in Gaucher disease patients: clinical signs and biochemical analyses. Cormand B, et al. **Am J Med Genet** 1997 Jun 27;70(4):437–43

Type I Gaucher disease due to homozygosity for the 259T mutation in a Bedouin patient. Rockah R, et al. **Am J Med Genet** 1997 Oct 3;72(1):77–8

55–base pair deletion in certain patients with Gaucher disease complicates screening for common Gaucher alleles. Tayebi N, et al. **Am J Med Genet** 1996 Dec 18;66(3):316–9

Mutation analysis in 46 British and Irish patients with Gaucher's disease. Hatton CE, et al. **Arch Dis Child** 1997 Jul;77(1):17–22

Genotype D399N/R463C in a patient with type 3 Gaucher disease previously assigned genotype N370S/R463C. Tayebi N, et al. **Biochem Mol Med** 1996 Apr;57(2):149–51

Hematologically important mutations: Gaucher disease. Beutler E, et al. **Blood Cells Mol Dis** 1997;23(1):2–7 (49 ref.)

The molecular characterization of Gaucher disease in South Africa. Morar B, et al. **Clin Genet** 1996 Aug;50(2):78–84

Gaucher disease: studies of phenotype, molecular diagnosis and treatment. Rice EO, et al. **Clin Genet** 1996 Mar; 49(3):111–8

Gaucher disease. Beutler E. **Curr Opin Hematol** 1997 Jan; 4(1):19–23 (85 ref.)

Types I and III Gaucher disease in Poland: incidence of the most common mutations and phenotypic manifestations. Tylki–Szymańska A, et al. **Eur J Hum Genet** 1996; 4(6):334–7

Complete restoration of glucocerebrosidase deficiency in Gaucher fibroblasts using a bicistronic MDR retrovirus and a new selection strategy. Aran JM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2165–75

Genetic fine localization of the beta–glucocerebrosidase (GBA) and prosaposin (PSAP) genes: implications for Gaucher disease. Cormand B, et al. **Hum Genet** 1997 Jul; 100(1):75–9

Molecular analysis of Gaucher disease: distribution of eight mutations and the complete gene deletion in 27 patients from Germany. le Coutre P, et al. **Hum Genet** 1997 Jun; 99(6):816–21

Type 1 Gaucher disease: identification of N396T and prevalence of glucocerebrosidase mutations in the Portuguese. Amaral O, et al. **Hum Mutat** 1996;8(3):280–1

Glucocerebrosidase (Gaucher disease). Beutler E, et al. **Hum Mutat** 1996;8(3):207–13

Population–specific screening by mutation analysis for diseases frequent in Ashkenazi Jews. DeMarchi JM, et al. **Hum Mutat** 1996;8(2):116–25

Identification and expression of acid beta–glucosidase mutations causing severe type 1 and neurologic type 2 Gaucher disease in non–Jewish patients. Grace ME, et al. **J Clin Invest** 1997 May 15;99(10):2530–7

Neuronopathic and non–neuronopathic presentation of Gaucher disease in patients with the third most common mutation (D409H) in Spain. Chabás A, et al. **J Inherit Metab Dis** 1996;19(6):798–800

Incorrect assignment of N370S mutation status by mismatched PCR/RFLP method in two Gaucher patients. Hodaňová K, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):611–2

Gaucher disease: molecular screening of the glucocerebrosidase 1601G and 1601A alleles in Victoria, British Columbia, Canada. Choy FY, et al. **J Med Genet** 1997 Jan;34(1):83–5

The clinical, molecular, and pathological characterisation of a family with two cases of lethal perinatal type 2 Gaucher disease. Sidransky E, et al. **J Med Genet** 1996 Feb; 33(2):132–6

D409H/D409H genotype in Gaucher–like disease [letter; comment] Uyama E, et al. **J Med Genet** 1997 Feb;34(2):175 . Comment on: J Med Genet 1995 Sep;32(9):740–2.

Prenatal genetic carrier testing using triple disease screening [see comments] Eng CM, et al. **JAMA** 1997 Oct 15; 278(15):1268–72. Comment in: JAMA 1997 Oct 15;278(15):1284–5.

Glucocerebrosidase mutations in Gaucher disease. Beutler E, et al. **Mol Med** 1994 Nov;1(1):82–92

Two new missense mutations in a non–Jewish Caucasian family with type 3 Gaucher disease. Seeman PJ, et al. **Neurology** 1996 Apr;46(4):1102–7

Gaucher disease: four families with previously undescribed mutations. Beutler E, et al. **Proc Assoc Am Physicians** 1996 May;108(3):179–84

[Type I Gaucher's disease. Report of 2 affected families] Martínez Odriozola P, et al. **Rev Clin Esp** 1997 Mar; 197(3):172–5 (Eng. Abstr.) **(Spa)**

METABOLISM

Enzymatic and molecular diagnosis of Gaucher disease. Barranger JA, et al. **Clin Lab Med** 1995 Dec;15(4):899–913 (59 ref.)

Turnover and distribution of intravenously administered mannose–terminated human acid beta–glucosidase in murine and human tissues. Xu YH, et al. **Pediatr Res** 1996 Feb;39(2):313–22

PATHOLOGY

Bone marrow relaxation times in Gaucher disease before and after enzyme replacement therapy. Magnaldi S, et al. **Eur Radiol** 1997;7(4):486–91

Gaucher cells in pulmonary–capillary blood in association with pulmonary hypertension [letter] Ross DJ, et al. **N Engl J Med** 1997 Jan 30;336(5):379–81

Dental observations in Gaucher's disease: review of the literature and two case reports with 13– and 60–year follow–ups. Bender IB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):650–9 (38 ref.)

Epidermal abnormalities may distinguish type 2 from type 1 and type 3 of Gaucher disease. Sidransky E, et al. **Pediatr Res** 1996 Jan;39(1):134–41

Pseudo–Gaucher's cells in association with common acute lymphoblastic leukemia. Knox–Macaulay H, et al. **South Med J** 1997 Jan;90(1):69–71

Frequency of pseudo–Gaucher cells in diagnostic bone marrow biopsies from patients with Ph–positive chronic myeloid leukaemia. Büsche G, et al. **Virchows Arch** 1997 Feb;430(2):139–48

PHYSIOPATHOLOGY

Bone density in Type 1 Gaucher disease. Pastores GM, et al. **J Bone Miner Res** 1996 Nov;11(11):1801–7

PSYCHOLOGY

The effect of assessment method and respondent population on utilities elicited for Gaucher disease. Clarke AE, et al. **Qual Life Res** 1997 Mar;6(2):169–84

RADIOGRAPHY

Pulmonary involvement in adult Gaucher's disease: high resolution CT appearance. Aydin K, et al. **Br J Radiol** 1997 Jan;70:93–5

Obliteration of maxillary and sphenoid sinuses in Gaucher's disease. Karabulut N, et al. **Br J Radiol** 1997 May; 70(833):533–5

Bone involvement in Gaucher's disease: 'bone crisis' or disease complication? La Civita L, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):195–8

Radiographic findings in type 3b Gaucher disease. Hill SC, et al. **Pediatr Radiol** 1996 Dec;26(12):852–60

RADIONUCLIDE IMAGING

Scintigraphic evaluation of Tc–99m–low–density lipoprotein (LDL) distribution in patients with Gaucher disease. Lorberboym M, et al. **Clin Genet** 1997 Jul;52(1):7–11

Scintigraphic monitoring of reticuloendothelial system in patients with type 1 Gaucher disease on enzyme replacement therapy. Lorberboym M, et al. **J Nucl Med** 1997 Jun;38(6):890–5

"Cold bone scans" as a sign of hemorrhagic infarcts of the spine in Gaucher's disease. Dolen EG, et al. **Pediatr Radiol** 1997 Jun;27(6):514–6

Regression of skeletal changes in type 1 Gaucher disease with enzyme replacement therapy. Pastores GM, et al. **Skeletal Radiol** 1996 Jul;25(5):485–8

SURGERY

Subtotal splenectomy in Gaucher's disease. Petroianu A. **Eur J Surg** 1996 Jun;162(6):511–3

[Indications for splenectomy in Gaucher's disease. Case report] Ferrazza P, et al. **G Chir** 1997 Apr;18(4):209–11 (Eng. Abstr.) **(Ita)**

THERAPY

Gaucher disease: enzyme therapy in the acute neuronopathic variant. Prows CA, et al. **Am J Med Genet** 1997 Jul 11; 71(1):16–21

Allogeneic bone marrow transplantation for Gaucher disease—a case report. Yen CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jun;59(6):372–6

Enzyme replacement therapy [editorial; comment] Roth KS. **Clin Pediatr (Phila)** 1997 Mar;36(3):147–8. Comment on: Clin Pediatr (Phila) 1997 Mar;36(3):141–6.

GAUCHER'S DISEASE

Current issues in enzyme therapy for Gaucher disease. Grabowski GA. **Drugs** 1996 Aug;52(2):159–67 (42 ref.)

Plasma chitotriosidase activity in Gaucher disease patients who have been treated either by bone marrow transplantation or by enzyme replacement therapy with alglucerase. Young E, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):595–602

Therapeutic delivery of proteins to macrophages: implications for treatment of Gaucher's disease. Mistry PK, et al. **Lancet** 1996 Dec 7;348(9041):1555–9

ULTRASONOGRAPHY

Abdominal ultrasound findings mimicking hematological malignancies in a study of 218 Gaucher patients. Neudorfer O, et al. **Am J Hematol** 1997 May;55(1):28–34

Accuracy of ultrasonography in assessing spleen and liver size in patients with Gaucher disease: comparison to computed tomographic measurements. Elstein D, et al. **J Ultrasound Med** 1997 Mar;16(3):209–11

Prenatal ultrasound findings in a fetus diagnosed with Gaucher's disease (type 2) at birth. Rowlands S, et al. **Prenat Diagn** 1997 Aug;17(8):765–9

GAUSSIAN DISTRIBUTION see **NORMAL DISTRIBUTION**

GAYS see **HOMOSEXUALITY, MALE**

GB HEPATITIS AGENTS see **HEPATITIS AGENTS, GB**

GB VIRUS A see **HEPATITIS AGENTS, GB**

GB VIRUS B see **HEPATITIS AGENTS, GB**

GB VIRUS C see **HEPATITIS AGENTS, GB**

GBGASE see **PROPERDIN FACTOR D**

GC PROTEIN see **VITAMIN D-BINDING PROTEIN**

GDP see **GUANOSINE DIPHOSPHATE**

GDP FUCOSE see **GUANOSINE DIPHOSPHATE FUCOSE**

GDP MANNOSE see **GUANOSINE DIPHOSPHATE MANNOSE**

GDP SUGARS see **GUANOSINE DIPHOSPHATE SUGARS**

GEESE

Virulence of six strains of duck plague virus in eight waterfowl species. Spieker JO, et al. **J Wildl Dis** 1996 Jul; 32(3):453–60

ANATOMY & HISTOLOGY

Comparison of hemisphere size in wild and domestic geese. Kalisińska E. **Anat Histol Embryol** 1997 Mar;26(1):3–9

Ultrastructural study of the keratinization of the dorsal epithelium of the tongue of Middendorff's bean goose, Anser fabalis middendorffii (Anseres, Antidae). Iwasaki S, et al. **Anat Rec** 1997 Feb;247(2):149–63

EMBRYOLOGY

Artificial increase of eggshell conductance improves hatchability of early laid goose eggs. Meir M, et al. **Br Poult Sci** 1996 Dec;37(5):937–51

GENETICS

DNA fingerprinting of captive breeding pairs of lesser white-fronted geese (Anser erythropus) with unknown pedigrees. Tegelström H, et al. **Biochem Genet** 1996 Aug; 34(7–8):287–96

METABOLISM

Comparative study of ovomucoid isolated from Muscovy duck (Cairina moschata), domestic goose (Anser anser) and domestic duck (Anas platyrhynchos). Nicol K, et al. **Br Poult Sci** 1997 May;38(2):217–9

Relationships between storage and secretion of hepatic lipids in two breeds of geese with different susceptibility to liver steatosis. Fournier E, et al. **Poult Sci** 1997 Apr; 76(4):599–607

PARASITOLOGY

Renal coccidiosis and other parasitologic conditions in lesser snow goose goslings at Tha-anne River, west coast Hudson Bay. Gomis S, et al. **J Wildl Dis** 1996 Jul;32(3):498–504

PHYSIOLOGY

Artificial increase of eggshell conductance improves hatchability of early laid goose eggs. Meir M, et al. **Br Poult Sci** 1996 Dec;37(5):937–51

VIROLOGY

Detection of Goose parvovirus genome by polymerase chain reaction: distribution of Goose parvovirus in Muscovy ducklings. Limn CK, et al. **Virus Res** 1996 Jun; 42(1–2):167–72

GEHRIG'S DISEASE see **AMYOTROPHIC LATERAL SCLEROSIS**

GEIGER-MUELLER COUNTERS see **RADIOMETRY**

GEL DIFFUSION TESTS see **IMMUNODIFFUSION**

GEL ELECTROPHORESIS, PULSED-FIELD see **ELECTROPHORESIS, GEL, PULSED-FIELD**

GEL ELECTROPHORESIS, TWO-DIMENSIONAL see **ELECTROPHORESIS, GEL, TWO-DIMENSIONAL**

GEL FILTRATION see **CHROMATOGRAPHY, GEL**

GELATIN

Trisacryl gelatin microspheres for therapeutic embolization, II: preliminary clinical evaluation in tumors and arteriovenous malformations. Beaujeux R, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):541–8

Trisacryl gelatin microspheres for therapeutic embolization, I: development and in vitro evaluation. Laurent A, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):533–40

The effects of gelatin film stents in the middle meatus. Tom LW, et al. **Am J Rhinol** 1997 May–Jun;11(3):229–32

Gelatin solutions [letter] [see comments] Atherton P, et al. **Anaesthesia** 1996 Oct;51(10):989. Comment in: Anaesthesia 1997 Apr;52(4):389–90.

Activity staining of protein inhibitors of proteases on gelatin-containing polyacrylamide gel electrophoresis. Felicioli R, et al. **Anal Biochem** 1997 Jan 1;244(1):176–9

Calibrating gelatin zymograms with human gelatinase standards. Makowski GS, et al. **Anal Biochem** 1996 May 1;236(2):353–6

Effect of chromium salts on invertase immobilization onto carboxymethyl-cellulose-gelatine carrier system. Emregül E, et al. **Biomaterials** 1996 Jul;17(14):1423–7

Influence of gelatin matrices cross-linked with transglutaminase on the properties of an enclosed bioactive material using beta-galactosidase as model system. Fuchsbauer HL, et al. **Biomaterials** 1996 Aug;17(15):1481–8

Synthesis and characterization of a new interpenetrated poly(2-hydroxyethylmethacrylate)-gelatin composite polymer. Santin M, et al. **Biomaterials** 1996 Aug; 17(15):1459–67

Pattern of growth and respiratory activity of Saccharomyces cerevisiae (baker's yeast) cells growing entrapped in an insolubilized gelatin gel. Parascandola P, et al. **Biotechnol Appl Biochem** 1996 Feb;23 (Pt 1):7–12

Matrix vesicles promote mineralization in a gelatin gel. Boskey AL, et al. **Calcif Tissue Int** 1997 Mar;60(3):309–15

Dependency of tissue necrosis on gelatin sponge particle size after canine hepatic artery embolization. Sonomura T, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):50–3

Survival of Staphylococcus aureus and enterotoxin A in glassy and rubbery states of gelatin. Bolton KJ, et al. **J Appl Bacteriol** 1996 Aug;81(2):191–4

A new biological glue from gelatin and poly (L-glutamic acid). Otani Y, et al. **J Biomed Mater Res** 1996 Jun; 31(2):158–66

The proper use of glue: a 20-year experience with the GRF glue in acute aortic dissection. Bachet J, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):243–53; discussion 253–5 (30 ref.)

A serologic Mycobacteria leprae gelatin particle agglutination (MLPA) in the diagnosis of leprosy: comparison with conventional enzyme-linked immunoassay and bacterial index. Agdamag AT, et al. **Nippon Rai Gakkai Zasshi** 1996 Jul;65(2):100–5

[BSE and heparin and gelatin preparations] Laubenthal H. **Anaesthesist** 1997 Mar;46(3):253–4 **(Ger)**

[Postoperative inflammatory responses to gelatin- and collagen-impregnated Dacron grafts and changes of endotoxin] Kawashima T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):531–5 (Eng. Abstr.) **(Jpn)**

[Clinical experience with the gelatin-resorcine-formol biological glue in acute type A aortic dissection] Moriyama Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May; 45(5):682–6 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Endoscopic injection of gelatin solution for severe hemorrhagic gastric cancer. Tajika M, et al. **Gastrointest Endosc** 1996 Mar;43(3):247–50 (10 ref.)

Pharmacokinetics of mitomycin C (MMC) after intraperitoneal administration of MMC-gelatin gel and its anti-tumor effects against sarcoma-180 bearing mice. Fujita T, et al. **J Drug Target** 1997;4(5):289–96

[Gelatin for volume replacement in hemodilution: hemodynamic study] Falchi S, et al. **Minerva Anestesiol** 1995 Jul–Aug;61(7–8):299–305 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Postoperative inflammatory reactions to sealed Dracon prostheses: a comparison of Gelseal and Hemashield. Utoh J, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):287–90

[Risk of heavy precipitation of vancomycin in the presence of fluid gelatin in infusion tubes (letter)] Narbonne H, et al. **Therapie** 1996 Sep–Oct;51(5):599 **(Fre)**

ANALOGS & DERIVATIVES

Evaluation studies on oxypolygelatin and degraded gelatin as plasma volume expanders. Gabr YA, et al. **Arzneimittelforschung** 1996 Aug;46(8):763–6

Benefits of blood cell transplant cryopreservation with oxypolygelatine (Gelifundol) plasma substitute. Di Nicola M, et al. **Bone Marrow Transplant** 1996 Sep;18(3):619–23

Volume replacement with gelatin or hydroxyethylstarch solutions does not impair somatosensory evoked potential monitoring: a haemodilution study in conscious volunteers. Detsch O, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):599–605

ANALYSIS

Chemical and swelling evaluations of amino group crosslinking in gelatin and modified gelatin matrices. Ofner CM 3rd, et al. **Pharm Res** 1996 Dec;13(12):1821–7

CHEMISTRY

Rapidly curable biological glue composed of gelatin and poly(L-glutamic acid). Otani Y, et al. **Biomaterials** 1996 Jul;17(14):1387–91

Influence of carboxylate ions containing polymers on calcification: in vitro study. Smetana K Jr, et al. **Biomaterials** 1996 Aug;17(16):1563–6

Influence of thermal history on the stability of gelatin gels. Michon C, et al. **Int J Biol Macromol** 1997 Jul;20(4):259–64

The elution and binding characteristics of rifampicin for three commercially available protein-sealed vascular grafts. Lovering AM, et al. **J Antimicrob Chemother** 1996 Oct; 38(4):599–604

Determination of moisture in hard gelatin capsules using near-infrared spectroscopy: applications to at-line process control of pharmaceutics. Berntsson O, et al. **J Pharm Biomed Anal** 1997 Apr;15(7):895–900

A novel biodegradable system based on gelatin nanoparticles and poly(lactic-co-glycolic acid) microspheres for protein and peptide drug delivery. Li JK, et al. **J Pharm Sci** 1997 Aug;86(8):891–5

Preparation and stabilization of heparin/gelatin complex coacervate microcapsules. Tsung M, et al. **J Pharm Sci** 1997 May;86(5):603–7

Determination of extent of formaldehyde-induced crosslinking in hard gelatin capsules by near-infrared spectrophotometry. Gold TB, et al. **Pharm Res** 1997 Aug; 14(8):1046–50

IMMUNOLOGY

Gelatin-specific humoral and cellular immune responses in children with immediate- and nonimmediate-type reactions to live measles, mumps, rubella, and varicella vaccines. Kumagai T, et al. **J Allergy Clin Immunol** 1997 Jul; 100(1):130–4

Food allergy to gelatin in children with systemic immediate-type reactions, including anaphylaxis, to vaccines. Sakaguchi M, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1058–61

Development of IgE antibody to gelatin in children with systemic immediate-type reactions to vaccines. Sakaguchi M, et al. **J Allergy Clin Immunol** 1997 May;99(5):720–1

IgE-mediated systemic reactions to gelatin included in the varicella vaccine. Sakaguchi M, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):263–4

Systemic immediate-type reactions to gelatin included in Japanese encephalitis vaccines. Sakaguchi M, et al. **Vaccine** 1997 Feb;15(2):121–2

METABOLISM

Gelatinolytic activity in tracheal aspirates of horses with chronic obstructive pulmonary disease. Koivunen AL, et al. **Acta Vet Scand** 1997;38(1):17–27

In vitro studies on a new method for islet microencapsulation using a thermoreversible gelation polymer, N-isopropylacrylamide-based copolymer. Shimizu S, et al. **Artif Organs** 1996 Nov;20(11):1232–7

Interaction between polyanions and cell nuclei: mechanism of gelatination of nuclei. Nakashima A, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):846–51

Gelatin microspheres: influence of preparation parameters and thermal treatment on chemico-physical and biopharmaceutical properties. Esposito E, et al. **Biomaterials** 1996 Oct;17(20):2009–20

Rapidly curable biological glue composed of gelatin and poly(L-glutamic acid). Otani Y, et al. **Biomaterials** 1996 Jul;17(14):1387–91

Flow cytometric analysis of gelatinase B (MMP-9) activity using immobilized fluorescent substrate on microspheres. St-Pierre Y, et al. **Cytometry** 1996 Dec 1;25(4):374–80

The primary structure of BSP-30K, a major lipid-, gelatin-, and heparin-binding glycoprotein of bovine seminal plasma. Calvete JJ, et al. **FEBS Lett** 1996 Dec 9; 399(1–2):147–52

Borrelia burgdorferi possesses a collagenolytic activity. Grab DJ, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):39–45

Substratum-dependent stimulation of fibroblast migration by the gelatin-binding domain of fibronectin. Schor SL, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2581–90

Potential efficacy of basic fibroblast growth factor incorporated in biodegradable hydrogels for skull bone regeneration. Yamada K, et al. **J Neurosurg** 1997 May; 86(5):871–5
Tissue inhibitor of metalloproteinase 1, collagenolytic and gelatinolytic activity in loose hip endoprostheses. Takagi M, et al. **J Rheumatol** 1995 Dec;22(12):2285–90

PHARMACOLOGY

Effects of gelatin and BSA on the amplification reaction for generating RAPD. Stommel JR, et al. **Biotechniques** 1997 Jun;22(6):1064–6
Pneumostatic effect of gelatin–resorcinol formaldehyde–glutaraldehyde glue on thermal injury of the lung: an experimental study on rats. Kodama K, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):333–7
Fate of gelatin–resorcinol–formaldehyde/glutaraldeyde adhesive on femoral vessel morphology. Walker JD, et al. **J Surg Res** 1997 Jul 15;71(1):73–8

THERAPEUTIC USE

Gelatin–resorcinol–formaldehyde–glutaraldehyde glue–spread stapler prevents air leakage from the lung. Nomori H, et al. **Ann Thorac Surg** 1997 Feb;63(2):352–5
Use of modified fluid gelatin and hydroxyethyl starch for colloidal volume replacement in major orthopaedic surgery. Beyer R, et al. **Br J Anaesth** 1997 Jan;78(1):44–50
Experimental gluing of the bronchial stump after pneumonectomy in rats. Wertzel H, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):88–91
A randomized trial comparing the effect of prophylactic intravenous fresh frozen plasma, gelatin or glucose on early mortality and morbidity in preterm babies. The Northern Neonatal Nursing Initiative [NNNI] Trial Group. **Eur J Pediatr** 1996 Jul;155(7):580–8
Experimental gluing of lung parenchyma in rats. Wertzel H, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):83–7
[Surgery for acute aortic dissection extending to the aortic root using gelatine–resorcine–formol biological glue—a case report] Uchida K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1024–7 (Eng. Abstr.) **(Jpn)**

GELATIN SPONGE, ABSORBABLE

Evaluation of particulate embolic materials with MR imaging, scanning electron microscopy, and phase–contrast microscopy. Nakabayashi K, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):485–91
Small gauge gelfoam plug liver biopsy in high risk patients: safety and diagnostic value. Fandrich CA, et al. **Australas Radiol** 1996 Aug;40(3):230–4
Dependency of tissue necrosis on gelatin sponge particle size after canine hepatic artery embolization. Sonomura T, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):50–3
Long–term results of transrenal ureteral occlusion with use of Gianturco coils and gelatin sponge pledgets. Farrell TA, et al. **J Vasc Interv Radiol** 1997 May–Jun;8(3):449–52

ADMINISTRATION & DOSAGE

Sustained release of antibiotic from a fibrin–gelatin–antibiotic mixture. Park MS, et al. **Laryngoscope** 1997 Oct; 107(10):1378–81

PHARMACOLOGY

Penicillin G–induced microbicidal activity of endothelial cells cultured on gelfoam blocks. Zhang B, et al. **J Infect Dis** 1996 Nov;174(5):1001–9
External dacryocystorhinostomy without mucosal flaps: comparison of petroleum jelly gauze nasal packing with gelatin sponge nasal packing. Mauriello JA Jr, et al. **Ophthalmic Surg Lasers** 1996 Jul;27(7):605–11

THERAPEUTIC USE

Preventing symblepharon formation with a gelatin sponge in the eye of a patient with an alkali burn. Yamada M, et al. **Am J Ophthalmol** 1997 Apr;123(4):552–4
[Lipiodol with and without Gelfoam in primary liver tumors. Plasma levels of Mitoxantrone and clinical results] Civalleri D, et al. **G Chir** 1997 Jun–Jul;18(6–7):362–7 (36 ref.) (Eng. Abstr.) **(Ita)**

GELATINASES

Calibrating gelatin zymograms with human gelatinase standards. Makowski GS, et al. **Anal Biochem** 1996 May 1;236(2):353–6
Quantitative reverse zymography: analysis of picogram amounts of metalloproteinase inhibitors using gelatinase A and B reverse zymograms. Oliver GW, et al. **Anal Biochem** 1997 Jan 1;244(1):161–6

AGONISTS

MT–MMP, the cell surface activator of proMMP–2 (pro–gelatinase A), is expressed with its substrate in mouse tissue during embryogenesis. Kinoh H, et al. **J Cell Sci** 1996 May;109 (Pt 5):953–9

ANALYSIS

Immunohistochemical study of metalloproteinases and their tissue inhibitors in the lungs of patients with diffuse alveolar damage and idiopathic pulmonary fibrosis. Hayashi T, et al. **Am J Pathol** 1996 Oct;149(4):1241–56
Evaluation of fluorometric and zymographic methods as activity assays for stromelysins and gelatinases [published erratum appears in Clin Exp Metastasis 1997 May;15(3):339–40] Quesada AR, et al. **Clin Exp Metastasis** 1997 Jan;15(1):26–32
Divergent patterns of matrix metalloproteinase activity during wound healing in ileum and colon of rats. Seifert WF, et al. **Gut** 1996 Jul;39(1):114–9
Stromelysin, gelatinase A and TIMP–1 in prosthetic interface tissue: a role for macrophages in tissue remodelling. Hembry RM, et al. **Histopathology** 1995 Aug;27(2):149–59
MT–MMP, the cell surface activator of proMMP–2 (pro–gelatinase A), is expressed with its substrate in mouse tissue during embryogenesis. Kinoh H, et al. **J Cell Sci** 1996 May;109 (Pt 5):953–9
Gelatinases and inhibitors of gelatinases in pancreatic islets and islet cell tumors. Tomita T, et al. **Mod Pathol** 1997 Jan;10(1):47–54
Location of 72–kd metalloproteinase (type IV collagenase) in untreated prostatic adenocarcinoma. Montironi R, et al. **Pathol Res Pract** 1995 Nov;191(11):1140–6
Detection of matrix metalloproteinase activity in human pancreatic cancer. Koshiba T, et al. **Surg Today** 1997; 27(4):302–4

ANTAGONISTS & INHIBITORS

Inhibition of human collagenase activity by antisense oligonucleoside methylphosphonates. Delong RK, et al. **Antisense Nucleic Acid Drug Dev** 1996 Winter;6(4):273–80
Calcium influx inhibits MT1–MMP processing and blocks MMP–2 activation. Yu M, et al. **FEBS Lett** 1997 Aug 4; 412(3):568–72
Phase I trial of a novel matrix metalloproteinase inhibitor batimastat (BB–94) in patients with advanced cancer. Wojtowicz–Praga S, et al. **Invest New Drugs** 1996; 14(2):193–202
Gelastatins A and B, new inhibitors of gelatinase A from Westerdykella multispora F50733. Lee HJ, et al. **J Antibiot (Tokyo)** 1997 Apr;50(4):357–9
Isolation of nicotianamine as a gelatinase inhibitor. Suzuki K, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1284–5
Suppression of matrix metalloproteinase production by hCG in cultures of human luteinized granulosa cells as a model for gonadotrophin–induced luteal rescue. Stamouli A, et al. **J Reprod Fertil** 1996 Jul;107(2):235–9
Matrix metalloproteinase–2 and tissue inhibitor of metalloproteinase–2 expression and synthetic matrix metalloproteinase–2 inhibitor binding in ovarian carcinomas and tumor cell lines. Afzal S, et al. **Lab Invest** 1996 Feb;74(2):406–21
Gelatinases and inhibitors of gelatinases in pancreatic islets and islet cell tumors. Tomita T, et al. **Mod Pathol** 1997 Jan;10(1):47–54
Selection of a histidine–containing inhibitor of gelatinases through deconvolution of combinatorial tetrapeptide libraries. Ferry G, et al. **Mol Divers** 1997 Mar;2(3):135–46

BIOSYNTHESIS

Alveolar epithelial cells in vitro produce gelatinases and tissue inhibitor of matrix metalloproteinase–2. d'Ortho MP, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L663–75
Aneurysmal smooth muscle cells exhibit increased matrix metalloproteinase–2 production in vitro. Crowther M, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:283–5
An in vitro model of aneurysmal disease: effect of leukocyte infiltration and shear stress on MMP production within the arterial wall. Thompson MM, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:270–3
Production of type IV collagen and 72–kDa gelatinase by human endothelial cells cultured in high glucose. Effects of a protein kinase C inhibitor, GF 109203X. Grigorova–Borsos AM, et al. **Biochem Cell Biol** 1996; 74(5):659–67
Matrix metalloproteinase and tissue inhibitor of metalloproteinase regulation of the invasive potential of a metastatic renal cell line. McElligott AM, et al. **Biochem Soc Trans** 1997 Feb;25(1):147S
Expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases in reactive and neoplastic lymphoid cells. Stetler–Stevenson M, et al. **Blood** 1997 Mar 1; 89(5):1708–15
Expression of gelatinases within the trabecular bone compartment of ovariectomized and parathyroidectomized adult female rats. Mansell JP, et al. **Bone** 1997 Jun; 20(6):533–8
Temporal expression of extracellular matrix metalloproteinases and tissue plasminogen activator in the development of collateral vessels in the canine model of coronary occlusion. Tyagi SC, et al. **Can J Physiol Pharmacol** 1996 Aug;74(8):983–95
Effect of matrix glycation on expression of type IV collagen, MMP–2, MMP–9 and TIMP–1 by human mesangial cells. Anderson SS, et al. **Cell Adhes Commun** 1996 Aug; 4(2):89–101
Upregulation of basement membrane–degrading metalloproteinase secretion after balloon injury of pig carotid arteries. Southgate KM, et al. **Circ Res** 1996 Dec; 79(6):1177–87
Expression of proteinases and proteinase inhibitors during embryo–uterine contact in the pig. Menino AR Jr, et al. **Dev Genet** 1997;21(1):68–74
MMP–2: expression, activation and inhibition. Corcoran ML, et al. **Enzyme Protein** 1996;49(1–3):7–19 (79 ref.)
Up–regulated expression of the beta3 integrin and the 92–kDa gelatinase in human HT–144 melanoma cell tumors grown in nude mice. Gouon V, et al. **Int J Cancer** 1996 Nov 27; 68(5):650–62
Overexpression of matrix metalloproteinase–2 and tissue inhibitor of matrix metalloproteinase–2 in liver from patients with gastrointestinal adenocarcinoma and no detectable metastasis. Théret N, et al. **Int J Cancer** 1997 Aug 22;74(4):426–32
Membrane–type matrix metalloproteinase expression and matrix metalloproteinase–2 activation in primary human ovarian epithelial carcinoma cells. Fishman DA, et al. **Invasion Metastasis** 1996;16(3):150–9
Matrix metalloproteinases MMP2 and MMP9 are produced in early stages of kidney morphogenesis but only MMP9 is required for renal organogenesis in vitro. Lelongt B, et al. **J Cell Biol** 1997 Mar 24;136(6):1363–73
Reactive oxygen species produced by macrophage–derived foam cells regulate the activity of vascular matrix metalloproteinases in vitro. Implications for atherosclerotic plaque stability. Rajagopalan S, et al. **J Clin Invest** 1996 Dec 1;98(11):2572–9
Collagenolytic activities with differentiation of the cultured cells from the murine hair apparatus. Obana N, et al. **J Dermatol Sci** 1996 Oct;13(1):83–6
TNF–alpha and IL–1beta selectively induce expression of 92–kDa gelatinase by human macrophages. Sarén P, et al. **J Immunol** 1996 Nov 1;157(9):4159–65
Wound fluids from human pressure ulcers contain elevated matrix metalloproteinase levels and activity compared to surgical wound fluids. Yager DR, et al. **J Invest Dermatol** 1996 Nov;107(5):743–8
Bacillus Calmette–Guérin enhances production and secretion of type IV collagenases in peripheral blood mononuclear cells. Kageyama Y, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):281–8
Effect of glucose and heparin on mesangial alpha 1(IV)COLL and MMP–2/TIMP–2 mRNA expression. Caenazzo C, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):443–8
Regulation of gelatinase production and invasiveness by organ–specific fibroblasts in high– and low–metastatic clones from murine RCT sarcoma. Ohmori K, et al. **Tumour Biol** 1997;18(4):219–31

BLOOD

Elevated levels of serum and plasma metalloproteinases in patients with gastric cancer. Endo K, et al. **Anticancer Res** 1997 May–Jun;17(3C):2253–8
Elevation of serum levels of matrix metalloproteinase–2 and –3 as new predictors of recurrence in patients with urothelial carcinoma. Gohji K, et al. **Cancer** 1996 Dec 1; 78(11):2379–87
Circulating matrix metalloproteinase–2 and tissue inhibitor of metalloproteinase–1 as serum markers of fibrosis in patients with chronic hepatitis C. Relationship to interferon response. Kasahara A, et al. **J Hepatol** 1997 Mar; 26(3):574–83

CEREBROSPINAL FLUID

Detection of a 130–kD matrix metalloproteinase in cerebrospinal fluid from a patient with Lyme neuroborreliosis. Hu LT, et al. **Clin Infect Dis** 1997 Jun; 24(6):1276–7

CHEMISTRY

Involvement of tissue inhibitors of metalloproteinases (TIMPS) during matrix metalloproteinase activation. Nagase H, et al. **Adv Exp Med Biol** 1996;389:23–31 (37 ref.)
Fluorescence quenching studies of matrix metalloproteinases (MMPs): evidence for structural rearrangement of the proMMP–2/TIMP–2 complex upon mercurial activation. Stack MS, et al. **Arch Biochem Biophys** 1996 Sep 1; 333(1):163–9

DRUG EFFECTS

Implication of collagen type I–induced membrane–type 1–matrix metalloproteinase expression and matrix metalloproteinase–2 activation in the metastatic progression of breast carcinoma. Gilles C, et al. **Lab Invest** 1997 May; 76(5):651–60

GENETICS

Expression of 72–kDa gelatinase (matrix metalloproteinase–2) in the developing mouse craniofacial complex. Iamaroon A, et al. **Arch Oral Biol** 1996 Dec;41(12):1109–19
Molecular cloning of seprase: a serine integral membrane protease from human melanoma. Goldstein LA, et al. **Biochim Biophys Acta** 1997 Jul 10;1361(1):11–9
Collagenase, gelatinase, and proteoglycanase messenger ribonucleic acid expression and activity during luteal development, maintenance, and regression in the

pseudopregnant rat ovary. Nothnick WB, et al. **Biol Reprod** 1996 Mar;54(3):616–24

In situ hybridization studies of metalloproteinases 2 and 9 and TIMP–1 and TIMP–2 expression in human prostate cancer. Wood M, et al. **Clin Exp Metastasis** 1997 May; 15(3):246–58

Spatial and temporal expression of the 72–kDa type IV collagenase (MMP–2) correlates with development and differentiation of valves in the embryonic avian heart. Alexander SM, et al. **Dev Dyn** 1997 Jul;209(3):261–8

Cloning of choriocarcinoma cells shows that invasion correlates with expression and activation of gelatinase A. Crescimanno C, et al. **Exp Cell Res** 1996 Sep 15; 227(2):240–51

Glomerular mesangial cell–specific transactivation of matrix metalloproteinase 2 transcription is mediated by YB–1. Mertens PR, et al. **J Biol Chem** 1997 Sep 5; 272(36):22905–12

Prostaglandin E2 stimulates expression of matrix metalloproteinase 2 in cultured rat mesangial cells. Zahner G, et al. **Kidney Int** 1997 Apr;51(4):1116–23

Progelatinase A mRNA expression in cell lines derived from tumors in patients with metastatic renal cell carcinoma correlates inversely with survival. Walther MM, et al. **Urology** 1997 Aug;50(2):295–301

ISOLATION & PURIFICATION

Purification and metal ion requirements of a candidate matrix metalloproteinase: a 41 kDa gelatinase activity in the sea urchin embryo. Mayne J, et al. **Biochem Cell Biol** 1996; 74(2):211–8

Characterization of a novel, membrane–bound, 80–kDa matrix–degrading protease from human breast cancer cells. Monoclonal antibody production, isolation, and localization. Lin CY, et al. **J Biol Chem** 1997 Apr 4; 272(14):9147–52

METABOLISM

Gelatinolytic activity in tracheal aspirates of horses with chronic obstructive pulmonary disease. Koivunen AL, et al. **Acta Vet Scand** 1997;38(1):17–27

TIMP–2 mediates cell surface binding of MMP–2. Corcoran ML, et al. **Adv Exp Med Biol** 1996;389:295–304

Altered expression of gelatinase and surface–associated plasminogen activator activity by trophoblast cells isolated from placentas of preeclamptic patients. Graham CH, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):555–62

Role of matrix metalloproteinases in failure to re–epithelialize after corneal injury. Fini ME, et al. **Am J Pathol** 1996 Oct; 149(4):1287–302

Expression of membrane–type 1 matrix metalloproteinase and activation of progelatinase A in human osteoarthritic cartilage. Imai K, et al. **Am J Pathol** 1997 Jul;151(1):245–56

Activation of matrix metalloproteinase–2 from hepatic stellate cells requires interactions with hepatocytes. Théret N, et al. **Am J Pathol** 1997 Jan;150(1):51–8

Gelatinases in epithelial lining fluid of patients with adult respiratory distress syndrome. Delclaux C, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L442–51

Effects of reactive metabolites of oxygen and nitrogen on gelatinase A activity. Owens MW, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L445–50

Localization and activation of type IV collagenase/gelatinase at endothelial focal contacts. Partridge CA, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L813–22

Matrix metalloproteinase expression and production by alveolar macrophages in emphysema. Finlay GA, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):240–7

Increased expression of gelatinases and collagenase in rat lungs exposed to 100% oxygen. Pardo A, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):1067–75

Human prostate tumor angiogenesis in nude mice: metalloprotease and plasminogen activator activities during tumor growth and neovascularization of subcutaneously injected matrigel impregnated with human prostate tumor cells. Wilson MJ, et al. **Anat Rec** 1997 Sep;249(1):63–73

Interferon beta–1b inhibits gelatinase secretion and in vitro migration of human T cells: a possible mechanism for treatment efficacy in multiple sclerosis. Leppert D, et al. **Ann Neurol** 1996 Dec;40(6):846–52

Retinoic acid induces cell proliferation and modulates gelatinases activity in human osteoclast–like cell lines. Colucci S, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):47–52

Carbohydrate–mediated regulation of matrix metalloproteinase–2 activation in normal human fibroblasts and fibrosarcoma cells. Gervasi DC, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):530–8

Effect of Ca2+ on the secondary structure of linear and cyclic collagen sequence analogs. Likó Z, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):351–9

Modulation of neutral protease expression in human mesangial cells by hyperglycaemic culture. Abdel Wahab N, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):777–83

Expression, subcellular distribution and plasma membrane binding of cathepsin B and gelatinases in bone metastatic tissue. Arkona C, et al. **Biol Chem** 1996 Nov; 377(11):695–702

Binding of 92 kDa and 72 kDa progelatinases to insoluble elastin modulates their proteolytic activation. Emonard H, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):265–71

Activation of progelatinase A and progelatinase A/TIMP–2 complex by membrane type 2–matrix metalloproteinase. Kolkenbrock H, et al. **Biol Chem** 1997 Feb;378(2):71–6

Progelatinase B forms from human neutrophils. complex formation of monomer/lipocalin with TIMP–1. Kolkenbrock H, et al. **Biol Chem** 1996 Jul–Aug; 377(7–8):529–33

Metalloproteinases in multiple myeloma: production of matrix metalloproteinase–9 (MMP–9), activation of proMMP–2, and induction of MMP–1 by myeloma cells. Barillé S, et al. **Blood** 1997 Aug 15;90(4):1649–55

Matrix metalloproteinases [letter] Roy MK, et al. **Br J Surg** 1997 Aug;84(8):1171

Increased expression of membrane type 1–matrix metalloproteinase in head and neck carcinoma. Yoshizaki T, et al. **Cancer** 1997 Jan 1;79(1):139–44

An inverse correlation between expression of NCAM–A and the matrix–metalloproteinases gelatinase–A and gelatinase–B in human glioma cells in vitro. Maidment SL, et al. **Cancer Lett** 1997 Jun 3;116(1):71–7

Expression of membrane–type matrix metalloproteinase 1 (MT1–MMP) in tumor cells enhances pulmonary metastasis in an experimental metastasis assay. Tsunezuka Y, et al. **Cancer Res** 1996 Dec 15;56(24):5678–83

Surgical preparative injury and neointima formation increase MMP–9 expression and MMP–2 activation in human saphenous vein. George SJ, et al. **Cardiovasc Res** 1997 Feb; 33(2):447–59

Influence of successive and combined ultraviolet A and B irradiations on matrix metalloelastases produced by human dermal fibroblasts in culture. Kut C, et al. **Cell Biol Int** 1997 Jun;21(6):347–52

Differential influence of antiestrogens on the in vitro release of gelatinases (type IV collagenases) by invasive and non–invasive breast cancer cells. Abbas Abidi SM, et al. **Clin Exp Metastasis** 1997 Jul;15(4):432–9

Effect of cisplatin and BCNU on MMP–2 levels in human glioblastoma cell lines in vitro. Chintala SK, et al. **Clin Exp Metastasis** 1997 Jul;15(4):361–7

Sequential activation and production of matrix metalloproteinase–2 during breast cancer progression. Lee KS, et al. **Clin Exp Metastasis** 1996 Nov;14(6):512–9

Induction of membrane–type matrix metalloproteinase 1 (MT1–MMP) expression in human fibroblasts by breast adenocarcinoma cells. Polette M, et al. **Clin Exp Metastasis** 1997 Mar;15(2):157–63

MT1–MMP correlates with MMP–2 activation potential seen after epithelial to mesenchymal transition in human breast carcinoma cells [published erratum appears in Clin Exp Metastasis 1997 May;15(3):338] Pulyaeva H, et al. **Clin Exp Metastasis** 1997 Mar;15(2):111–20

Simulated glomerular pressure modulates mesangial cell 72 kDa metalloproteinase activity. Singhal PC, et al. **Connect Tissue Res** 1996;33(4):257–63

Cleavage of human corneal type VI collagen alpha 3 chain by matrix metalloproteinase–2. Myint E, et al. **Cornea** 1996 Sep;15(5):490–6

Control of type IV collagenase activity by components of the urokinase–plasmin system: a regulatory mechanism with cell–bound reactants. Mazzieri R, et al. **EMBO J** 1997 May 1;16(9):2319–32

What structure and function of avian plasminogen activator and matrix metalloproteinase–2 reveal about their counterpart mammalian enzymes, their regulation and their role in tumor invasion. Alexander DS, et al. **Enzyme Protein** 1996;49(1–3):38–58 (98 ref.)

Membrane–type–2 matrix metalloproteinase can initiate the processing of progelatinase A and is regulated by the tissue inhibitors of metalloproteinases. Butler GS, et al. **Eur J Biochem** 1997 Mar 1;244(2):653–7

The effect of exogenous gangliosides on matrix metalloproteinase secretion by human glioma cells in vitro. Maidment SL, et al. **Eur J Cancer** 1996 May;32A(5):868–71

Cloning of choriocarcinoma cells shows that invasion correlates with expression and activation of gelatinase A. Crescimanno C, et al. **Exp Cell Res** 1996 Sep 15; 227(2):240–51

Activation of gelatinase A (72–kDa type IV collagenase) induced by monensin in normal human fibroblasts. Li L, et al. **Exp Cell Res** 1997 May 1;232(2):322–30

Involvement of PA/plasmin system in the processing of pro–MMP–9 and in the second step of pro–MMP–2 activation. Baramova EN, et al. **FEBS Lett** 1997 Mar 24; 405(2):157–62

The recombinant catalytic domain of membrane–type matrix metalloproteinase–1 (MT1–MMP) induces activation of progelatinase A and progelatinase A complexed with TIMP–2. Lichte A, et al. **FEBS Lett** 1996 Nov 18; 397(2–3):277–82

Calcium influx inhibits MT1–MMP processing and blocks MMP–2 activation. Yu M, et al. **FEBS Lett** 1997 Aug 4; 412(3):568–72

Activation of a 66–kilodalton human endothelial cell matrix metalloprotease by Streptococcus pyogenes extracellular cysteine protease. Burns EH Jr, et al. **Infect Immun** 1996 Nov;64(11):4744–50

Matrix metalloproteinases in bronchoalveolar lavage fluid following antigen challenge. Warner JA, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):318–20

Possible contribution of active MMP2 to lymph–node metastasis and secreted cathepsin L to bone invasion of newly established human oral–squamous–cancer cell lines. Kawamata H, et al. **Int J Cancer** 1997 Jan 6;70(1):120–7

Anti–alpha3 integrin antibody induces the activated form of matrix metalloprotease–2 (MMP–2) with concomitant stimulation of invasion through matrigel by human rhabdomyosarcoma cells. Kubota S, et al. **Int J Cancer** 1997 Jan 6;70(1):106–11

Analysis of MT1–MMP and MMP2 expression in human gastric cancers. Mori M, et al. **Int J Cancer** 1997 Jun 20; 74(3):316–21

Down–regulation of tumour gelatinase/inhibitor balance and preservation of tumour endothelium by an anti–metastatic ruthenium complex. Sava G, et al. **Int J Cancer** 1996 Sep 27;68(1):60–6

Hydrocortisone modulates the expression of c–ets–1 and 72 kDa type IV collagenase in chicken dermis during early feather morphogenesis. Turque N, et al. **Int J Dev Biol** 1997 Feb;41(1):103–9

Membrane–type matrix metalloproteinases (MT–MMPs) in tumor metastasis. Sato H, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):209–15 (36 ref.)

Specific, high affinity binding of tissue inhibitor of metalloproteinases–4 (TIMP–4) to the COOH–terminal hemopexin–like domain of human gelatinase A. TIMP–4 binds progelatinase A and the COOH–terminal domain in a similar manner to TIMP–2. Bigg HF, et al. **J Biol Chem** 1997 Jun 13;272(24):15496–500

Membrane type matrix metalloproteinase 1 activates pro–gelatinase A without furin cleavage of the N–terminal domain. Cao J, et al. **J Biol Chem** 1996 Nov 22; 271(47):30174–80

The recognition sites of the integrins alpha1beta1 and alpha2beta1 within collagen IV are protected against gelatinase A attack in the native protein. Eble JA, et al. **J Biol Chem** 1996 Nov 29;271(48):30964–70

Urokinase plasminogen activator and gelatinases are associated with membrane vesicles shed by human HT1080 fibrosarcoma cells. Ginestra A, et al. **J Biol Chem** 1997 Jul 4;272(27):17216–22

Stimulation of matrix metalloproteinase production by recombinant extracellular matrix metalloproteinase inducer from transfected Chinese hamster ovary cells. Guo H, et al. **J Biol Chem** 1997 Jan 3;272(1):24–7

Unaltered secretion of beta–amyloid precursor protein in gelatinase A (matrix metalloproteinase 2)–deficient mice. Itoh T, et al. **J Biol Chem** 1997 Sep 5;272(36):22389–92

Identification of the 170–kDa melanoma membrane–bound gelatinase (seprase) as a serine integral membrane protease. Piñeiro–Sánchez ML, et al. **J Biol Chem** 1997 Mar 21; 272(12):7595–601

Gelatinase A activation is regulated by the organization of the polymerized actin cytoskeleton. Tomasek JJ, et al. **J Biol Chem** 1997 Mar 14;272(11):7482–7

The hemopexin–like domain (C domain) of human gelatinase A (matrix metalloproteinase–2) requires Ca2+ for fibronectin and heparin binding. Binding properties of recombinant gelatinase A C domain to extracellular matrix and basement membrane components. Wallon UM, et al. **J Biol Chem** 1997 Mar 14;272(11):7473–81

Unstimulated human acute myelogenous leukemia blasts secrete matrix metalloproteinases. Matsuzaki A, et al. **J Cancer Res Clin Oncol** 1997;123(2):100–6

Characterization of a metalloproteinase: a late stage specific gelatinase activity in the sea urchin embryo. Robinson JJ. **J Cell Biochem** 1997 Sep 1;66(3):337–45

Chondrocyte cultures express matrix metalloproteinase mRNA and immunoreactive protein; stromelysin–1 and 72 kDa gelatinase are localized in extracellular matrix vesicles. Schmitz JP, et al. **J Cell Biochem** 1996 Jun 1;61(3):375–91

Expression of matrix metalloproteinases during rat skin wound healing: evidence that membrane type–1 matrix metalloproteinase is a stromal activator of pro–gelatinase A. Okada A, et al. **J Cell Biol** 1997 Apr 7;137(1):67–77

Modulation of MMP–2 (gelatinase A) and MMP–9 (gelatinase B) by interferon–gamma in a human salivary gland cell line. Wu AJ, et al. **J Cell Physiol** 1997 May;171(2):117–24

In situ detection of matrix metalloproteinase–2 (MMP2) and the metalloproteinase inhibitor TIMP2 transcripts in human primary hepatocellular carcinoma and in liver metastasis. Musso O, et al. **J Hepatol** 1997 Mar;26(3):593–605

Cardiac collagen remodeling in the cardiomyopathic Syrian hamster and the effect of losartan. Dixon IM, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1837–50

Increased matrix metalloproteinase–2 activity induced by TGF–beta 1 in duct cells of human salivary gland is associated with the development of cyst formation in vivo. Azuma M, et al. **J Oral Pathol Med** 1996 Oct;25(9):467–73

Matrix metalloproteinase–2 (72 kD type IV collagenase) expression occurs in the early stage of human melanocytic tumour progression and may have prognostic value. Väisänen A, et al. **J Pathol** 1996 Nov;180(3):283–9

Matrix metalloproteinases and TIMPS in cultured C57BL/6J–cpk kidney tubules. Rankin CA, et al. **Kidney Int** 1996 Sep;50(3):835–44

Tubular gelatinase A (MMP–2) and its tissue inhibitors in polycystic kidney disease in the Han:SPRD rat. Schaefer L, et al. **Kidney Int** 1996 Jan;49(1):75–81

Matrix metalloproteinase–2 and tissue inhibitor of metalloproteinase–2 expression and synthetic matrix metalloproteinase–2 inhibitor binding in ovarian carcinomas and tumor cell lines. Afzal S, et al. **Lab Invest** 1996 Feb;74(2):406–21

Activation of human umbilical vein endothelial cell

progelatinase A by phorbol myristate acetate: a protein kinase C-dependent mechanism involving a membrane-type matrix metalloproteinase. Foda HD, et al. **Lab Invest** 1996 Feb;74(2):538–45

Implication of collagen type I-induced membrane-type 1-matrix metalloproteinase expression and matrix metalloproteinase-2 activation in the metastatic progression of breast carcinoma. Gilles C, et al. **Lab Invest** 1997 May; 76(5):651–60

Study of the gelatinolytic activities Escherichia coli cells before and after starvation in seawater by substrate gel electrophoresis. Papageorgakopoulou N, et al. **Microbiol Res** 1996 Aug;151(3):329–35

Metastatic ability of MXT mouse mammary subpopulations correlates with clonal expression and/or membrane-association of gelatinase A. Llorens A, et al. **Mol Carcinog** 1997 May;19(1):54–66

Matrix metalloproteinase activity expression in infarcted, noninfarcted and dilated cardiomyopathic human hearts. Tyagi SC, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):13–21

Evidence for increased activated metalloproteinase 2 (MMP-2a) expression associated with human prostate cancer progression. Stearns M, et al. **Oncol Res** 1996; 8(2):69–75

Immunohistochemical studies of activated matrix metalloproteinase-2 (MMP-2a)expression in human prostate cancer. Stearns ME, et al. **Oncol Res** 1996; 8(2):63–7

Expression of matrix metalloproteinase (gelatinase) in T1 adenocarcinoma of the lung. Kodate M, et al. **Pathol Int** 1997 Jul;47(7):461–9

The proteolytic potential of normal human melanocytes: comparison with other skin cells and melanoma cell lines. Bizik J, et al. **Pigment Cell Res** 1996 Oct;9(5):255–64

Intracellular activation of gelatinase A (72-kDa type IV collagenase) by normal fibroblasts. Lee AY, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4424–9

Identification of arachidonic acid pathways required for the invasive and metastatic activity of malignant tumor cells. Reich R, et al. **Prostaglandins** 1996 Jan;51(1):1–17

Induction of cell migration by matrix metalloprotease-2 cleavage of laminin-5. Giannelli G, et al. **Science** 1997 Jul 11;277(5323):225–8

Gelatinase activity and the occurrence of cerebral aneurysms. Chyatte D, et al. **Stroke** 1997 Apr;28(4):799–804

Membrane-type matrix metalloproteinases (MT-MMPs) in cell invasion. Sato H, et al. **Thromb Haemost** 1997 Jul; 78(1):497–500 (37 ref.)

[Expression of matrix metalloproteinases and tissue inhibitor of metalloproteinase by myofibroblasts--morphological study on corneal wound healing] Shimoda M, et al. **Nippon Ganka Gakkai Zasshi** 1997 May;101(5):371–9 (Eng. Abstr.) **(Jpn)**

[Matrix metalloproteinase-2 concentrations in squamous cell carcinoma of the head and neck and its clinical significance] Kawata R, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Feb;99(2):299–305 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Role of the matrixin MMP-2 in multicellular organization of adipocytes cultured in basement membrane components. Brown LM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C937–49

The roles of adhesion molecules and proteinases in lymphocyte transendothelial migration. Madri JA, et al. **Biochem Cell Biol** 1996;74(6):749–57 (60 ref.)

Molecular regulation of cellular invasion--role of gelatinase A and TIMP-2. Yu AE, et al. **Biochem Cell Biol** 1996; 74(6):823–31 (74 ref.)

Glioma invasion in vitro: regulation by matrix metalloprotease-2 and protein kinase C. Uhm JH, et al. **Clin Exp Metastasis** 1996 Oct;14(5):421–33

Matrix metalloproteinases regulate morphogenesis, migration and remodeling of epithelium, tongue skeletal muscle and cartilage in the mandibular arch. Chin JR, et al. **Development** 1997 Apr;124(8):1519–30

Matrix degradation in liver: a role in injury and repair [editorial; comment] Arthur MJ. **Hepatology** 1997 Oct; 26(4):1069–71. Comment on: Hepatology 1997 Oct;26(4):896–904. Comment on: Hepatology 1997 Oct;26(4):922–8.

Evidence of a role for matrix metalloproteinases in cold preservation injury of the liver in humans and in the rat [see comments] Upadhya AG, et al. **Hepatology** 1997 Oct; 26(4):922–8. Comment in: Hepatology 1997 Oct;26(4):1069–71.

Gelatinase A is a glomerular mesangial cell growth and differentiation factor. Turck J, et al. **Kidney Int** 1997 May; 51(5):1397–400 (9 ref.)

Release of gelatinase A during platelet activation mediates aggregation. Sawicki G, et al. **Nature** 1997 Apr 10; 386(6625):616–9

The role of type IV collagenases in rat bladder development and obstruction. Sutherland RS, et al. **Pediatr Res** 1997 Mar;41(3):430–4

SECRETION

Increased secretion of gelatinases A and B from the aortas of cholesterol fed rabbits: relationship to lesion severity. Zaltsman AB, et al. **Atherosclerosis** 1997 Apr; 130(1–2):61–70

Relaxin modulates the ovulatory process and increases secretion of different gelatinases from granulosa and theca-interstitial cells in rats. Hwang JJ, et al. **Biol Reprod** 1996 Dec;55(6):1276–83

Matrix metalloproteinase-2 and tissue inhibitor of metalloproteinase-1 in the retinal pigment epithelium and interphotoreceptor matrix: vectorial secretion and regulation. Padgett LC, et al. **Exp Eye Res** 1997 Jun; 64(6):927–38

Secretion of different types of gelatinases from cultured human keratinocytes. Kobayashi T, et al. **J Dermatol** 1997 Apr;24(4):213–6

Secretion of matrix metalloproteinase-2 (72 kD gelatinase/type IV collagenase = gelatinase A) by malignant human glioma cell lines: implications for the growth and cellular invasion of the extracellular matrix. Nakagawa T, et al. **J Neurooncol** 1996 Apr;28(1):13–24

Gelatinase A secretion and its control in peritubular and Sertoli cell cultures: effects of hormones, second messengers and inducers of cytokine production. Hoeben E, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1–2):37–46

GELFOAM see **GELATIN SPONGE, ABSORBABLE**

GELS

Intercomparison of DNA sizing ladders in electrophoretic separation matrices and their potential for accurate typing of the D1S80 locus. Kline MC, et al. **Appl Theor Electrophor** 1996;6(1):33–41

The use of a new gel matrix for the separation of DNA fragments: a comparison study between slab gel electrophoresis and capillary electrophoresis. Siles BA, et al. **Appl Theor Electrophor** 1996;6(1):15–22

Organic solvents induce interdigitated gel structures in multilamellar vesicles of dipalmitoylphosphatidylcholine. Kinoshita K, et al. **Biochim Biophys Acta** 1996 Oct 23; 1284(2):233–9

Mesoscopic gels at low agarose concentration: perturbation effects of ethanol. Bulone D, et al. **Biophys J** 1997 Jan; 72(1):388–94

Biotechnology of protein and polysaccharide gels. Tombs MP. **Biotechnol Genet Eng Rev** 1997;14:337–63 (62 ref.)

Efficacy of protective creams and/or gels. Lachapelle JM. **Curr Probl Dermatol** 1996;25:182–92 (34 ref.)

Application of gels of 0.5 mm thickness to electrophoresis in the automated HPGE-1000 apparatus: improved resolution. Chang HT, et al. **Electrophoresis** 1996 Jan; 17(1):80–3

Sample-streaks and smears in immobilized pH gradient gels. Esteve-Romero J, et al. **Electrophoresis** 1996 Apr; 17(4):704–8

Gel electrophoretic mobility of charged particles in a medium with curved channels. Fridrikh S, et al. **Electrophoresis** 1997 Jan;18(1):26–33 (23 ref.)

Gel and free solution electrophoresis of variably charged polymers. Hoagland DA, et al. **Electrophoresis** 1996 Jun; 17(6):1151–60

Rapid mass spectrometric identification of proteins from two-dimensional polyacrylamide gels after in gel proteolytic digestion. Li G, et al. **Electrophoresis** 1997 Mar-Apr;18(3–4):391–402

S-pyridylethylation of intact polyacrylamide gels and in situ digestion of electrophoretically separated proteins: a rapid mass spectrometric method for identifying cysteine-containing peptides. Moritz RL, et al. **Electrophoresis** 1996 May;17(5):907–17

Sensitivity and mass accuracy for proteins analyzed directly from polyacrylamide gels: implications for proteome mapping. Ogorzalek Loo RR, et al. **Electrophoresis** 1997 Mar-Apr;18(3–4):382–90

One- and two-dimensional histone separations in acidic gels: usefulness of methylene blue-driven photopolymerization. Rabilloud T, et al. **Electrophoresis** 1996 Jan;17(1):67–73

Mechanisms of retardation of rigid spherical particles with 3 to 1,085 nm radius in capillary electrophoresis, using buffered polyacrylamide (molecular weight 5 x 10(6)) solutions. Radko SP, et al. **Electrophoresis** 1996 Jun; 17(6):1094–102

Electrophoresis of DNA in novel thermoreversible matrices. Sassi AP, et al. **Electrophoresis** 1996 Sep;17(9):1460–9

How can the bioavailability of timolol be enhanced? A pharmacokinetic pilot study of novel hydrogels. von der Ohe N, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Jul; 234(7):452–6

Extended primary culture of human hepatocytes in a collagen gel sandwich system. Kono Y, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun;33(6):467–72

Three-dimensional visualization and measurement of conformal dose distributions using magnetic resonance imaging of BANG polymer gel dosimeters. Ibbott GS, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):1097–103

Gel formation from the type IV collagen isolated from bovine lens capsule in guanidine-HCl and dithiothreitol. Muraoka M, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):167–72

Keratan sulfate synthesis by corneal stromal cells within three-dimensional collagen gel cultures. Nakazawa K, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):117–25

Salt-independent adsorption of human serum proteins on cyanocarbon gels. Berna PP, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):277–85

ADCON-T/N reduces in vivo perineural adhesions in a rat sciatic nerve reoperation model. Palatinsky EA, et al. **J Hand Surg [Br]** 1997 Jun;22(3):331–5

An evaluation of new gel matrices for the separation of PCR-amplified DNA fragments. Gowda R, et al. **Mol Biotechnol** 1996 Feb;5(1):63–5

Identification of glycoproteins on nitrocellulose membranes and gels. Thornton DJ, et al. **Mol Biotechnol** 1996 Apr; 5(2):171–6

Gel microdrop technology for rapid isolation of rare and high producer cells. Weaver JC, et al. **Nat Med** 1997 May; 3(5):583–5

Effects of crosslinking and temperature on the dose response of a BANG polymer gel dosimeter. Maryanski MJ, et al. **Phys Med Biol** 1997 Feb;42(2):303–11

How to use a gel template for an exact facial flap transfer. Langstein HN, et al. **Plast Reconstr Surg** 1997 Feb; 99(2):556–8

Application of polyvinyl alcohol hydrogel membrane as anti-adhesive interposition after spinal surgery [letter; comment] Bao C. **Spine** 1997 Jun 15;22(12):1418–9. Comment on: Spine 1995 Nov 1;20(21):2272–7.

Methods and reagents. Pouring sequencing gels the old-fashioned way. Hengen PN. **Trends Biochem Sci** 1996 Jul;21(7):273–4

[Cultures of corneal epithelium on hydrogel for synthetic epikeratoplasty] Bourcier T, et al. **J Fr Ophtalmol** 1997; 20(6):444–52 (Eng. Abstr.) **(Fre)**

[Long-term results of endoprosthesis using hydrophilic polyacrylamide gel "Interfall"] Zemskov VS, et al. **Klin Khir** 1996;(5):21–3 **(Rus)**

ADMINISTRATION & DOSAGE

Diffusion-controlled delivery of proteins from hydrogels and other hydrophilic systems. am Ende MT, et al. **Pharm Biotechnol** 1997;10:139–65 (60 ref.)

ADVERSE EFFECTS

Assessing the role of the biomaterial Aquavene in patient reactions to Landmark midline catheters. Silverstein B, et al. **Regul Toxicol Pharmacol** 1997 Feb;25(1):60–7 (46 ref.)

CHEMICAL SYNTHESIS

Kinetics of anhydride formation in xerogels of poly(acrylic acid). Blanco-Fuente H, et al. **Biomaterials** 1996 Sep; 17(17):1667–75

CHEMISTRY

Dosimeter gel and MR imaging for verification of calculated dose distributions in clinical radiation therapy. Johansson SA, et al. **Acta Oncol** 1997;36(3):283–90

Designing positive internal controls for mutation detection gels. Liang T, et al. **Biotechniques** 1996 Dec;21(6):1036–8

Incorporation of proteins in sphingomyelin-water gel phases. Minami H, et al. **Chem Phys Lipids** 1996 Jan 25;79(1):65–70

The effects of polymer properties on DNA separations by capillary electrophoresis in uncross-linked polymer solutions. Barron AE, et al. **Electrophoresis** 1996 Apr; 17(4):744–57

Eliciting macroporosity in polyacrylamide and agarose gels with polyethylene glycol. Charlionet R, et al. **Electrophoresis** 1996 Jan;17(1):58–66

Novel acrylamido monomers with higher hydrophilicity and improved hydrolytic stability: III. DNA separations by capillary electrophoresis in poly (N-acryloylaminopropanol). Gelfi C, et al. **Electrophoresis** 1996 Apr;17(4):738–43

Pore size of agarose gels by atomic force microscopy. Pernodet N, et al. **Electrophoresis** 1997 Jan;18(1):55–8

Capillary electrophoresis with polymeric separation media: considerations for theory. Smisek DL. **Electrophoresis** 1995 Nov;16(11):2094–9 (89 ref.)

Dynamics of protein isoelectric focusing in immobilized pH gradient gels. Stoyanov AV, et al. **Electrophoresis** 1996 Aug;17(8):1313–8

Polyacrylamide solutions for DNA sequencing by capillary electrophoresis: mesh sizes, separation and dispersion. Wu C, et al. **Electrophoresis** 1996 Jun;17(6):1103–9

Gelation of proteins from milk. de Kruif KG, et al. **Faraday Discuss** 1995;(101):185–200

Gels from surfactant solutions with densely packed multilamellar vesicles. Hoffmann H, et al. **Faraday Discuss** 1995;(101):319–33

Surfactant binding and micellisation in polymer solutions and gels: binding isotherms and their consequences. Piculell L, et al. **Faraday Discuss** 1995;(101):307–18

Solution and gel rheology of a new polysaccharide excreted by the bacterium Alteromonas sp. strain 1644. Bozzi L, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):83–91

Hydrogels of N-acylchitosans and their cellulose composites generated from the aqueous alkaline solutions. Hirano S, et al. **Int J Biol Macromol** 1997 Jul;20(4):245–9

Utilization of DNA as functional materials: preparation of filters containing DNA insolubilized with alginic acid gel. Iwata K, et al. **Int J Biol Macromol** 1996 Feb; 18(1–2):149–50

Mixed iota-kappa carrageenan gels. Ridout MJ, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):5–8

Partial thermodynamic parameters for prediction stability and washing behavior of DNA duplexes immobilized on gel matrix. Kunitsyn A, et al. **J Biomol Struct Dyn** 1996 Oct;

GELS

14(2):239–44
Physicochemical properties of calcium polycarbophil, a water-absorbing polymer. Yamada T, et al. **J Pharm Pharmacol** 1996 Jul;48(7):665–8
Responsive gels formed by the spontaneous self-assembly of peptides into polymeric beta-sheet tapes. Aggeli A, et al. **Nature** 1997 Mar 20;386(6622):259–62
Anionic gels as vehicles for electrically-modulated drug delivery. I. Solvent and drug transport phenomena. Hsu CS, et al. **Pharm Res** 1996 Dec;13(12):1865–70
Textural analysis and flow rheometry of novel, bioadhesive antimicrobial oral gels. Jones DS, et al. **Pharm Res** 1997 Apr;14(4):450–7
Magnetic cross-relaxation and chemical exchange between microporous solid and mobile liquid phases. Whaley M, et al. **Solid State Nucl Magn Reson** 1996 Dec;7(3):247–52

METABOLISM

An investigation of the parameters influencing the bioadhesive properties of Myverol 18–99/water gels. Geraghty PB, et al. **Biomaterials** 1997 Jan;18(1):63–7
Effect of gelation conditions and dissolution media on the release of paracetamol from alginate gel beads. Aslani P, et al. **J Microencapsul** 1996 Sep–Oct;13(5):601–14

PHARMACOLOGY

ADCON-L: a review of its development, mechanism of action, and preclinical data. Frederickson RC. **Eur Spine J** 1996;5 Suppl 1:S7–9

THERAPEUTIC USE

Urea-containing moisturizers influence barrier properties of normal skin. Loden M. **Arch Dermatol Res** 1996 Feb; 288(2):103–7
Lack of postdiscectomy adhesions following application of ADCON-L: a case report. de Tribolet N, et al. **Eur Spine J** 1996;5 Suppl 1:S18–20
Use of ADCON-L to inhibit postoperative peridural fibrosis and related symptoms following lumbar disc surgery: a preliminary report. Petrie JL, et al. **Eur Spine J** 1996;5 Suppl 1:S10–7
ADCON-L symposium. Round table discussion. Robertson JT, et al. **Eur Spine J** 1996;5 Suppl 1:S26–8
Cost effectiveness of lumbar disc surgery and of a preventive treatment for peridural fibrosis. Schwicker D. **Eur Spine J** 1996;5 Suppl 1:S21–5
Reduction of peridural fibrosis after lumbar laminotomy and discectomy in dogs by a resorbable gel (ADCON-L). Einhaus SL, et al. **Spine** 1997 Jul 1;22(13):1440–6; discussion 1446–7
[Ligenten treatment of sinusitis] Poliakova TS, et al. **Vestn Otorinolaringol** 1997;(2):38–40 (Eng. Abstr.) **(Rus)**

TOXICITY

Sephadex induced granulomatous reaction in rats. Buyssens N, et al. **Exp Toxicol Pathol** 1995 Nov;47(5):381–90

GELSOLIN

Elastic filaments in situ in striated muscle revealed by selective removal of thin filaments with plasma gelsolin. Funatsu T. **Adv Biophys** 1996;33:41–52

ANALYSIS

Widespread loss of gelsolin in breast cancers of humans, mice, and rats. Asch HL, et al. **Cancer Res** 1996 Nov 1; 56(21):4841–5

BIOSYNTHESIS

A novel gelsolin isoform expressed by oligodendrocytes in the central nervous system. Vouyiouklis DA, et al. **J Neurochem** 1997 Sep;69(3):995–1005

BLOOD

Thrombin activation of human platelets dissociates a complex containing gelsolin and actin from phosphatidylinositide-specific phospholipase Cgamma1. Baldassare JJ, et al. **Biochem J** 1997 May 15;324 (Pt 1):283–7
Temporal association between serum gelsolin levels and clinical events in a patient with severe falciparum malaria. Huang S, et al. **Clin Infect Dis** 1997 May;24(5):951–4
Decreased plasma gelsolin concentrations in acute liver failure, myocardial infarction, septic shock, and myonecrosis. Suhler E, et al. **Crit Care Med** 1997 Apr; 25(4):594–8

CHEMISTRY

Multiple pathways for denaturation of horse plasma gelsolin. Koepf EK, et al. **Biochem Cell Biol** 1996;74(1):101–7
The structure of divalent cation-induced aggregates of PIP2 and their alteration by gelsolin and tau. Flanagan LA, et al. **Biophys J** 1997 Sep;73(3):1440–7
The bundling of actin with polyethylene glycol 8000 in the presence and absence of gelsolin. Goverman J, et al. **Biophys J** 1996 Sep;71(3):1485–92
Conformational changes in actin induced by its interaction with gelsolin. Khaitlina S, et al. **Biophys J** 1997 Aug; 73(2):929–37
Conformational and functional studies of three gelsolin subdomain-1 synthetic peptides and their implication in actin polymerization. Feinberg J, et al. **Biopolymers** 1997 May;41(6):647–55
The crystal structure of plasma gelsolin: implications for actin severing, capping, and nucleation. Burtnick LD, et al. **Cell** 1997 Aug 22;90(4):661–70
Viscoelasticity of actin-gelsolin networks in the presence of filamin. Goldmann WH, et al. **Eur J Biochem** 1997 Jun 1;246(2):373–9
Functional consequences of disulfide bond formation in gelsolin. Allen PG. **FEBS Lett** 1997 Jan 13;401(1):89–94
Evidence for an actin binding helix in gelsolin segment 2; have homologous sequences in segments 1 and 2 of gelsolin evolved to divergent actin binding functions? Van Troys M, et al. **FEBS Lett** 1996 Nov 18;397(2–3):191–6
Correlations between biological activity and structural properties for two short homologous sequences in thymosin beta4 and gelsolin. Feinberg J, et al. **Int J Pept Protein Res** 1996 Jan–Feb;47(1–2):62–9

GENETICS

Tissue distribution and levels of gelsolin mRNA in normal individuals and patients with gelsolin-related amyloidosis. Paunio T, et al. **FEBS Lett** 1997 Apr 7;406(1–2):49–55
Genomic structure, evolution, and expression of human FLII, a gelsolin and leucine-rich-repeat family member: overlap with LLGL. Campbell HD, et al. **Genomics** 1997 May 15; 42(1):46–54
In vitro expression analysis shows that the secretory form of gelsolin is the sole source of amyloid in gelsolin-related amyloidosis. Kangas H, et al. **Hum Mol Genet** 1996 Sep; 5(9):1237–43
Delayed retraction of filopodia in gelsolin null mice. Lu M, et al. **J Cell Biol** 1997 Sep 22;138(6):1279–87
A novel gelsolin isoform expressed by oligodendrocytes in the central nervous system. Vouyiouklis DA, et al. **J Neurochem** 1997 Sep;69(3):995–1005

METABOLISM

Localization of a calcium sensitive binding site for gelsolin on actin subdomain I: implication for severing process. Feinberg J, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):61–5
Kinetics of gelsolin interaction with phalloidin-stabilized F-actin. Rate constants for binding and severing. Kinosian HJ, et al. **Biochemistry** 1996 Dec 24;35(51):16550–6
Phosphatidylinositol 4,5-bisphosphate specifically stimulates PP60(c-src) catalyzed phosphorylation of gelsolin and related actin-binding proteins. De Corte V, et al. **FEBS Lett** 1997 Jan 20;401(2–3):191–6
Evidence for an actin binding helix in gelsolin segment 2; have homologous sequences in segments 1 and 2 of gelsolin evolved to divergent actin binding functions? Van Troys M, et al. **FEBS Lett** 1996 Nov 18;397(2–3):191–6
Gelsolin binding to phosphatidylinositol 4,5-bisphosphate is modulated by calcium and pH. Lin KM, et al. **J Biol Chem** 1997 Aug 15;272(33):20443–50
Osteopontin stimulates gelsolin-associated phosphoinositide levels and phosphatidylinositol triphosphate-hydroxyl kinase. Chellaiah M, et al. **Mol Biol Cell** 1996 May; 7(5):743–53
Distribution of gelsolin in human testis. Rousseaux-Prevost R, et al. **Mol Reprod Dev** 1997 Sep;48(1):63–70
Caspase-3-generated fragment of gelsolin: effector of morphological change in apoptosis. Kothakota S, et al. **Science** 1997 Oct 10;278(5336):294–8

PHARMACOLOGY

Gelsolin activates DNase I in vitro and cystic fibrosis sputum. Davoodian K, et al. **Biochemistry** 1997 Aug 12; 36(32):9637–41
Profilin and gelsolin stimulate phosphatidylinositol 3-kinase activity. Singh SS, et al. **Biochemistry** 1996 Dec 24; 35(51):16544–9

PHYSIOLOGY

Inhibition of apoptosis by the actin-regulatory protein gelsolin. Ohtsu M, et al. **EMBO J** 1997 Aug 1;16(15):4650–6
Gelsolin modulates phospholipase C activity in vivo through phospholipid binding. Sun Hq, et al. **J Cell Biol** 1997 Aug 25;138(4):811–20
Role of gelsolin in actin depolymerization of adherent human neutrophils. Wang JS, et al. **Mol Biol Cell** 1997 Jan; 8(1):121–8
[Tumor suppressive function of gelsolin] Kuzumaki N, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1436–41 (35 ref.) (Eng. Abstr.) **(Jpn)**

GEMFIBROZIL

Gemfibrozil. **IARC Monogr Eval Carcinog Risks Hum** 1996; 66:427–44 (75 ref.)

ADMINISTRATION & DOSAGE

Synergistic activation of the hydratase but not the ApoA1 gene by gemfibrozil and retinoids. Mukherjee R, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:734–5
Insoluble complex formation between LDL and arterial proteoglycans in relation to serum lipid levels and effects of lipid lowering drugs. Wiklund O, et al. **Atherosclerosis** 1996 Jan 5;119(1):57–67
Effect of a combination of gemfibrozil and niacin on lipid levels. Spencer GA, et al. **J Clin Pharmacol** 1996 Aug; 36(8):696–700
Modulation of plasma fibrinogen levels by ciprofibrate and gemfibrozil in primary hyperlipidaemia. de Maat MP, et al. **Thromb Haemost** 1997 Jan;77(1):75–9

ADVERSE EFFECTS

Possible increased risk of rhabdomyolysis during concomitant use of simvastatin and gemfibrozil. van Puijenbroek EP, et al. **J Intern Med** 1996 Dec;240(6):403–4
Rhabdomyolysis and acute renal failure associated with gemfibrozil therapy [letter] Górriz JL, et al. **Nephron** 1996; 74(2):437–8
Rhabdomyolysis associated with simvastatin-gemfibrozil therapy. Tal A, et al. **South Med J** 1997 May;90(5):546–7

ANALOGS & DERIVATIVES

Early effects of CI-924 on hepatic peroxisome proliferation, microsomal enzyme induction, PCNA, and apoptosis in B6C3F1 mice and Wistar rats. Hofstra AH, et al. **Arch Toxicol** 1997;71(4):250–7
Interaction of human serum albumin with the electrophilic metabolite 1-O-gemfibrozil-beta-D-glucuronide. Sallustio BC, et al. **Drug Metab Dispos** 1997 Jan;25(1):55–60
Disposition of gemfibrozil and gemfibrozil acyl glucuronide in the rat isolated perfused liver. Sallustio BC, et al. **Drug Metab Dispos** 1996 Sep;24(9):984–9

METABOLISM

Disposition of gemfibrozil and gemfibrozil acyl glucuronide in the rat isolated perfused liver. Sallustio BC, et al. **Drug Metab Dispos** 1996 Sep;24(9):984–9

PHARMACOKINETICS

Pharmacokinetic and bioequivalence study of two gemfibrozil preparations. Benkö S, et al. **Arzneimittelforschung** 1997 Aug;47(8):913–6
[Bioanalysis of gemfibrozil. Comparative human pharmacokinetics of 300 mg of gemfibrozil-containing Innogem and Lopid capsules] Benkóné Márkus S, et al. **Acta Pharm Hung** 1996 Sep;66(5):203–12 (Eng. Abstr.) **(Hun)**

PHARMACOLOGY

Opposite effects of bezafibrate and gemfibrozil in both normal and hypertriglyceridemic rats. Krause BR, et al. **Atherosclerosis** 1996 Nov 15;127(1):91–101
Effects of gemfibrozil administration on very low density lipoprotein receptor mRNA levels in rabbits. Matsuoka N, et al. **Atherosclerosis** 1996 Oct 25;126(2):221–6
Effects of gemfibrozil on very-low-density lipoprotein composition and low-density lipoprotein size in patients with hypertriglyceridemia or combined hyperlipidemia. Yang CY, et al. **Atherosclerosis** 1996 Sep 27;126(1):105–16
Effects of gemfibrozil and clofibric acid on the uptake of taurocholate by isolated rat hepatocytes. Sabordo L, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):215–8
Effect of gemfibrozil on centrifugal behavior of rat peroxisomes and activities of peroxisomal enzymes involved in lipid metabolism. Hashimoto F, et al. **Biol Pharm Bull** 1997 Apr;20(4):315–21
Plasminogen activator inhibitor type 1 secretion by HepG2 cells: opposite effects of two fibric acid derivatives [letter] Mussoni L, et al. **Blood Coagul Fibrinolysis** 1996 Jun; 7(4):503–5
Attenuation by gemfibrozil of expression of plasminogen activator inhibitor type 1 induced by insulin and its precursors. Nordt TK, et al. **Circulation** 1997 Feb 4; 95(3):677–83
Lipid-regulating action of gemfibrozil in the stroke-prone spontaneously hypertensive rat. Ogawa H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S313–5
Modulation of cardiac intermediate filament proteins in the chick heart by fibric acid derivatives. Aranega AE, et al. **Eur J Morphol** 1995 Nov;33(5):421–31
Protein-DNA interactions at a drug-responsive element of the human apolipoprotein A-I gene. Zhang X, et al. **J Biol Chem** 1996 Oct 25;271(43):27152–60
Effect of dietary versus pharmacological correction of hypertriglyceridemia on red blood cell membrane sodium/lithium countertransport activity. Pagano E, et al. **Life Sci** 1997;60(26):2389–97
Decreased cyclosporine levels during gemfibrozil treatment of hyperlipidemia after kidney transplantation [letter] Fehrman-Ekholm I, et al. **Nephron** 1996;72(3):483
Hepatic microsomal enzyme induction, beta-oxidation, and cell proliferation following administration of clofibrate, gemfibrozil, or bezafibrate in the CD rat. Amacher DE, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):143–50

THERAPEUTIC USE

Lipid-lowering effects of simvastatin and gemfibrozil in CAPD patients: a prospective cross-over study. Akçiçek F, et al. **Adv Perit Dial** 1996;12:261–5
Safety and efficacy of long-term statin-fibrate combinations in patients with refractory familial combined

hyperlipidemia. Athyros VG, et al. **Am J Cardiol** 1997 Sep 1;80(5):608–13

Lipid–lowering therapy and long–term survival in heart transplantation. Stapleton DD, et al. **Am J Cardiol** 1997 Sep 15;80(6):802–5

Ciprofibrate versus gemfibrozil in the treatment of primary hyperlipidaemia. Knipscheer HC, et al. **Atherosclerosis** 1996 Jul;124 Suppl:S75–81

A comparative study of the efficacy of simvastatin and gemfibrozil in combined hyperlipoproteinemia: prediction of response by baseline lipids, apo E genotype, lipoprotein(a) and insulin. Nestel P, et al. **Atherosclerosis** 1997 Mar 21;129(2):231–9

Effects of regular and extended–release gemfibrozil on plasma lipoproteins and apolipoproteins in hypercholesterolemic patients with decreased HDL cholesterol levels. Schaefer EJ, et al. **Atherosclerosis** 1996 Nov 15;127(1):113–22

Efficacy and safety of fenofibrate or gemfibrozil on serum lipid profiles in Chinese patients with type IIb hyperlipidemia: a single–blind, randomized, and cross–over study. Jen SL, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Apr; 59(4):217–24

Skeletal muscle metabolism before and after gemfibrozil treatment in dialysed patients with chronic renal failure. Thompson CH, et al. **Clin Nephrol** 1996 Jun;45(6):386–9

A study to determine the response of coronary atherosclerosis to raising low high density lipoprotein cholesterol with a fibric–acid derivative in men after coronary bypass surgery. The rationale, design, and baseline characteristics of the LOCAT Study. Lopid Coronary Angiography Trial. Syvänne M, et al. **Control Clin Trials** 1997 Feb;18(1):93–119

Fish oil supplementation versus gemfibrozil treatment in hyperlipidemic NIDDM. A randomized crossover study. Fasching P, et al. **Horm Metab Res** 1996 May;28(5):230–6

Effects of gemfibrozil therapy on glucose tolerance, insulin sensitivity and plasma plasminogen activator inhibitor activity in hypertriglyceridaemia. Asplund–Carlson A. **J Cardiovasc Risk** 1996 Aug;3(4):385–90

Effect of gemfibrozil on levels of lipoprotein[a] in type II hyperlipoproteinemic subjects. Jones PH, et al. **J Lipid Res** 1996 Jun;37(6):1298–308

The effects of gemfibrozil upon the hypercoagulable state in dyslipidaemic patients with chronic renal failure. Irish AB, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2223–8

Further evidence of favorable effects of gemfibrozil on the lipid profile in renal allograft recipients [letter] Ok E, et al. **Nephron** 1996;73(3):491–2

Effect of gemfibrozil on lipoprotein abnormalities in chronic renal insufficiency: a controlled study in human chronic renal disease. Samuelsson O, et al. **Nephron** 1997; 75(3):286–94

Effects of gemfibrozil or simvastatin on apolipoprotein–B–containing lipoproteins, apolipoprotein–CIII and lipoprotein(a) in familial combined hyperlipidaemia. Bredie SJ, et al. **Neth J Med** 1996 Aug; 49(2):59–67

Gemfibrozil reduces thrombin generation in patients with combined hyperlipidaemia, without influencing plasma fibrinogen, fibrin gel structure or coagulation factor VII. Bröijersén A, et al. **Thromb Haemost** 1996 Aug;76(2):171–6

[Gemfibrozil in the elderly. Effects on lipid metabolism] Brosche T, et al. **Fortschr Med** 1996 May 10;114(13):157–60 (Eng. Abstr.) **(Ger)**

TOXICITY

Method for determining whether the number of hepatocytes in rat liver is increased after treatment with the peroxisome proliferator gemfibrozil. Carthew P, et al. **J Appl Toxicol** 1997 Jan–Feb;17(1):47–51

GEMINIVIRIDAE

CHEMISTRY

Maize streak virus coat protein binds single– and double–stranded DNA in vitro. Liu H, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1265–70

The geminivirus BL1 movement protein is associated with endoplasmic reticulum–derived tubules in developing phloem cells. Ward BM, et al. **J Virol** 1997 May; 71(5):3726–33

GENETICS

A worldwide survey of tomato yellow leaf curl viruses. Czosnek H, et al. **Arch Virol** 1997;142(7):1391–406

Infectivity and complete nucleotide sequence of the genome of a genetically distinct strain of maize streak virus from Reunion Island. Peterschmitt M, et al. **Arch Virol** 1996; 141(9):1637–50

Geminivirus replication: genetic and biochemical characterization of Rep protein function, a review. Laufs J, et al. **Biochimie** 1995;77(10):765–73 (85 ref.)

Nucleotide sequence of a new bipartite geminivirus isolated from the common weed Sida rhombifolia in Costa Rica. Höfer P, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1785–90

Molecular characterization of a subgroup I geminivirus from a legume in South Africa. Liu L, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2113–7

Vectors based on maize streak virus can replicate to high copy numbers in maize plants. Shen WH, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):965–9

Mutational analysis of potato yellow mosaic geminivirus. Sung YK, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1773–80

cis elements that contribute to geminivirus transcriptional regulation and the efficiency of DNA replication. Eagle PA, et al. **J Virol** 1997 Sep;71(9):6947–55

Increased pathogenicity in a pseudorecombinant bipartite geminivirus correlates with intermolecular recombination. Hou YM, et al. **J Virol** 1996 Aug;70(8):5430–6

Quantitative determination of tomato yellow leaf curl geminivirus DNA by chemiluminescent assay using digoxigenin–labeled probes. Caciagli P, et al. **J Virol Methods** 1996 Mar;57(1):19–29

Mutational analysis of the putative nicking motif in the replication–associated protein (AC1) of bean golden mosaic geminivirus. Hoogstraten RA, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):594–9

A novel subviral agent associated with a geminivirus: the first report of a DNA satellite. Dry IB, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7088–93

Plant virus DNA replication processes in Agrobacterium: insight into the origins of geminiviruses? Rigden JE, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10280–4

The strain–specific cis–acting element of beet curly top geminivirus DNA replication maps to the directly repeated motif of the ori. Choi IR, et al. **Virology** 1996 Dec 1; 226(1):122–6

Transactivation of dianthin transgene expression by African cassava mosaic virus AC2. Hong Y, et al. **Virology** 1997 Feb 17;228(2):383–7

Regulation of a geminivirus coat protein promoter by AL2 protein (TrAP): evidence for activation and derepression mechanisms. Sunter G, et al. **Virology** 1997 Jun 9; 232(2):269–80

Genetic analysis of the monopartite tomato yellow leaf curl geminivirus: roles of V1, V2, and C2 ORFs in viral pathogenesis. Wartig L, et al. **Virology** 1997 Feb 17; 228(2):132–40

ISOLATION & PURIFICATION

Association of geminivirus infection with yellow green mosaic disease of Cucumis sativus: diagnosis by nucleic acid probes. Raj SK, et al. **Indian J Exp Biol** 1996 Jun; 34(6):603–5

Molecular characterization of a subgroup I geminivirus from a legume in South Africa. Liu L, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2113–7

METABOLISM

Geminivirus replication: genetic and biochemical characterization of Rep protein function, a review. Laufs J, et al. **Biochimie** 1995;77(10):765–73 (85 ref.)

Mutational analysis of the putative nicking motif in the replication–associated protein (AC1) of bean golden mosaic geminivirus. Hoogstraten RA, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):594–9

Genetic requirements for local and systemic movement of tomato golden mosaic virus in infected plants. Jeffrey JL, et al. **Virology** 1996 Sep 1;223(1):208–18

PATHOGENICITY

Infectivity and complete nucleotide sequence of the genome of a genetically distinct strain of maize streak virus from Reunion Island. Peterschmitt M, et al. **Arch Virol** 1996; 141(9):1637–50

Evidence that DNA–A of a geminivirus associated with severe cassava mosaic disease in Uganda has arisen by interspecific recombination. Zhou X, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2101–11

Engineering resistance against tomato yellow leaf curl virus (TYLCV) using antisense RNA. Bendahmane M, et al. **Plant Mol Biol** 1997 Jan;33(2):351–7

Genetic analysis of the monopartite tomato yellow leaf curl geminivirus: roles of V1, V2, and C2 ORFs in viral pathogenesis. Wartig L, et al. **Virology** 1997 Feb 17; 228(2):132–40

PHYSIOLOGY

Analysis of the infectivity of monomeric clones of pepper huasteco virus. Bonilla–Ramírez GM, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):947–51

Efficient whitefly transmission of African cassava mosaic geminivirus requires sequences from both genomic components. Liu S, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1791–4

Interactions between geminivirus replication proteins. Settlage SB, et al. **J Virol** 1996 Oct;70(10):6790–5

Resistance to tomato yellow leaf curl geminivirus in Nicotiana benthamiana plants transformed with a truncated viral C1 gene [published erratum appears in Virology 1997 Jan 20;227(2):519] Noris E, et al. **Virology** 1996 Oct 1; 224(1):130–8

The role of AV2 ("precoat") and coat protein in viral replication and movement in tomato leaf curl geminivirus. Padidam M, et al. **Virology** 1996 Oct 15;224(2):390–404

DNA replication of wheat dwarf geminivirus vectors: effects of origin structure and size. Suárez–López P, et al. **Virology** 1997 Jan 20;227(2):389–99

GEMINIVIRUS see **GEMINIVIRIDAE**

GENDER see **SEX**

GENDER BIAS see **PREJUDICE**

GENDER IDENTITY

Social competence in opiate–addicted individuals: gender differences, relationship to psychiatric diagnoses, and treatment response. Rutherford MJ, et al. **Addict Behav** 1997 May–Jun;22(3):419–25

The state's "sharp line between the sexes": women, alcohol and the law in the United States, 1850–1980. Nicolaides BM. **Addiction** 1996 Aug;91(8):1211–29

Gender differences in relapse situations. Rubin A, et al. **Addiction** 1996 Dec;91 Suppl:S111–20

The sanctuary of sobriety: the emergence of temperance as a feminine virtue in Tudor and Stuart England. Warner J. **Addiction** 1997 Jan;92(1):97–111

Male and female adolescents' perceived interpersonal communication skills according to history of sexual coercion. Anderson V, et al. **Adolescence** 1997 Summer; 32(126):419–27

Economic hardship, family relationships, and adolescent distress: an evaluation of a stress–distress mediation model in mother–daughter and mother–son dyads. Lempers JD, et al. **Adolescence** 1997 Summer;32(126):339–56

Adolescents' attitude toward female gender roles: implications for education. Mills R, et al. **Adolescence** 1996 Fall;31(123):741–5

Adolescent gender differences in time alone and time devoted to conversation. Smith TE. **Adolescence** 1997 Summer; 32(126):483–96

Parental influence on children's socialization to gender roles. Witt SD. **Adolescence** 1997 Summer;32(126):253–9 (42 ref.)

Adolescent females "voice" changes can signal difficulties for teachers and administrators. Wren DJ. **Adolescence** 1997 Summer;32(126):463–70

Curricular track, career choice, and androgyny among adolescent females. Wulff MB, et al. **Adolescence** 1997 Spring;32(125):43–9

Gender role influences on Turkish adolescents' self–identity. Yildirim A. **Adolescence** 1997 Spring;32(125):217–31

Homicide rates among Native American children: the status integration hypothesis. Young TJ, et al. **Adolescence** 1997 Spring;32(125):57–9

Sex–of–sibling effects: a review. Part II. Personality and mental and physical health. Wagner ME, et al. **Adv Child Dev Behav** 1996;26:137–79

A prospective study of self–esteem and alcohol use disorders in early adulthood: evidence for gender differences. Walitzer KS, et al. **Alcohol Clin Exp Res** 1996 Sep; 20(6):1118–24

The experience of head injury on the impairment of gender identity and gender role. Gutman SA, et al. **Am J Occup Ther** 1996 Jul–Aug;50(7):535–44

Why gender matters: being female is not the same as not being male. Kunkel SR, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):294–6

The impact of gender on the choice of surgery as a career. Baxter N, et al. **Am J Surg** 1996 Oct;172(4):373–6

Depression and gender. An international review. Culbertson FM. **Am Psychol** 1997 Jan;52(1):25–31 (35 ref.)

Gender, racial, ethnic, sexual, and class identities. Frable DE. **Annu Rev Psychol** 1997;48:139–62 (185 ref.)

Power and caring: a dialectic in nursing. Rafael AR. **ANS Adv Nurs Sci** 1996 Sep;19(1):3–17 (50 ref.)

Sex reassignment at birth. Long–term review and clinical implications [see comments] Diamond M, et al. **Arch Pediatr Adolesc Med** 1997 Mar;151(3):298–304. Comment in: Arch Pediatr Adolesc Med 1997 Mar;151(3):224–5.

To be male or female—that is the question [editorial; comment] Reiner W. **Arch Pediatr Adolesc Med** 1997 Mar; 151(3):224–5. Comment on: Arch Pediatr Adolesc Med 1997 Mar;151(3):298–304.

The perception of sexual attractiveness: sex differences in variability. Townsend JM, et al. **Arch Sex Behav** 1997 Jun; 26(3):243–68

Karen Horney's response to commemoration [letter; comment] Cohen D. **Aust N Z J Psychiatry** 1996 Jun; 30(3):427–8. Comment on: Aust N Z J Psychiatry 1995 Dec;29(4):575–9.

Gender, race and poverty: bringing the sociopolitical into psychotherapy. Krawitz R, et al. **Aust N Z J Psychiatry** 1997 Aug;31(4):474–9 (30 ref.)

Women and schizophrenia: a review. Kulkarni J. **Aust N Z J Psychiatry** 1997 Feb;31(1):46–56 (106 ref.)

Sexual abuse in therapy: gender issues. Quadrio C. **Aust N Z J Psychiatry** 1996 Feb;30(1):124–31; discussion 131–3

Lifetime episodes of dysphoria: gender, early childhood loss and personality. Roberts JE, et al. **Br J Clin Psychol** 1997 May;36 (Pt 2):195–208

Does victimization account for sex differences in depressive symptoms? Whiffen VE, et al. **Br J Clin Psychol** 1997 May; 36 (Pt 2):185–93

Overachievement and coping strategies in adolescent males. Parsons A, et al. **Br J Educ Psychol** 1996 Mar;66 (Pt 1):109–14

Women's self–esteem: a community study of women who

report and do not report childhood sexual abuse. Romans S, et al. **Br J Psychiatry** 1996 Dec;169(6):696–704

Sex differences in aggression: does social representation mediate form of aggression? Campbell A, et al. **Br J Soc Psychol** 1997 Jun;36 (Pt 2):161–71

Gender, status and 'powerless' speech: interactions of students and lecturers. McFadyen RG. **Br J Soc Psychol** 1996 Sep;35 (Pt 3):353–67

The gender gap: differences in political attitudes and social dominance orientation. Pratto F, et al. **Br J Soc Psychol** 1997 Mar;36 (Pt 1):49–68

Transactions of the Topeka Psychoanalytic Society. Wilkinson SM. **Bull Menninger Clin** 1996 Fall;60(4):541–3

Sex-role attitudes and clinical appraisal in psychiatry residents. Belitsky CA, et al. **Can J Psychiatry** 1996 Oct; 41(8):503–8

Gender-specific outcomes for sexually abused adolescents. Chandy JM, et al. **Child Abuse Negl** 1996 Dec; 20(12):1219–31

Clinicians' hypotheses regarding clients' problems: are they less likely to hypothesize sexual abuse in male compared to female clients? Holmes G, et al. **Child Abuse Negl** 1996 Jun;20(6):493–501

Undergraduate students' perceptions of child sexual abuse: effects of age, sex, and gender-role attitudes. Maynard C, et al. **Child Abuse Negl** 1997 Sep;21(9):833–44

Behavioral, affective, and social correlates of involvement in cross-sex friendship in elementary school. Kovacs DM, et al. **Child Dev** 1996 Oct;67(5):2269–86

Patterns of change in early childhood aggressive-disruptive behavior: gender differences in predictions from early coercive and affectionate mother-child interactions. McFadyen-Ketchum SA, et al. **Child Dev** 1996 Oct; 67(5):2417–33

Effects of friendship and gender on peer group entry. Zarbatany L, et al. **Child Dev** 1996 Oct;67(5):2287–300

The gay adolescent: stressors, adaptations, and psychosocial interventions. Radkowsky M, et al. **Clin Psychol Rev** 1997; 17(2):191–216 (99 ref.)

Gender differences in recalled parental childrearing behaviors and adult self-esteem. Conte HR, et al. **Compr Psychiatry** 1996 May–Jun;37(3):157–66

Vagina dentata revisited: gender and asymptomatic shedding of genital herpes. Pliskin KL. **Cult Med Psychiatry** 1995 Dec;19(4):479–501

Geographic mobility of scientists: sex differences and family constraints. Shauman KA, et al. **Demography** 1996 Nov; 33(4):455–68

Age and sex differences in dyadic and group interaction. Benenson JF, et al. **Dev Psychol** 1997 May;33(3):538–43

Mediators of gender differences in mathematics college entrance test scores: a comparison of spatial skills with internalized beliefs and anxieties. Casey MB, et al. **Dev Psychol** 1997 Jul;33(4):669–80

Engagement in gender normative versus nonnormative forms of aggression: links to social-psychological adjustment. Crick NR. **Dev Psychol** 1997 Jul;33(4):610–7

Gender-specific pathways between maternal depressive symptoms, family discord, and adolescent adjustment. Davies PT, et al. **Dev Psychol** 1997 Jul;33(4):657–68

Roles of temperamental arousal and gender-segregated play in young children's social adjustment. Fabes RA, et al. **Dev Psychol** 1997 Jul;33(4):693–702

Relational aggression, gender, and peer acceptance: invariance across culture, stability over time, and concordance among informants. Tomada G, et al. **Dev Psychol** 1997 Jul;33(4):601–9

The relationship between attachment cognitions and psychological adjustment in late adolescent women. Burge D, et al. **Dev Psychopathol** 1997 Winter;9(1):151–67

Gender differences in manifestations of antisocial personality disorder among residential drug abuse treatment clients. Goldstein RB, et al. **Drug Alcohol Depend** 1996 May; 41(1):35–45

Gender differences in clinical trials in coronary heart disease: response to drug therapy. Klein W. **Eur Heart J** 1996 Dec; 17(12):1786–90 (28 ref.)

Men's perceptions of their roles and responsibilities regarding sex, contraception and childrearing. Grady WR, et al. **Fam Plann Perspect** 1996 Sep–Oct;28(5):221–6

Caregiving for parents and parents-in-law: is gender important? Ingersoll-Dayton B, et al. **Gerontologist** 1996 Aug;36(4):483–91

Women living with HIV/AIDS: the dual challenge of being a patient and caregiver. Hackl KL, et al. **Health Soc Work** 1997 Feb;22(1):53–62

Self-concepts of low-income older women: not old or poor, but fortunate and blessed. Barusch AS. **Int J Aging Hum Dev** 1997;44(4):269–82

Understanding the influence of gender role identity on the assumption of family caregiving roles by men. Hirsch C. **Int J Aging Hum Dev** 1996;42(2):103–21

Femininity, masculinity, and disordered eating: a meta-analytic review. Murnen SK, et al. **Int J Eat Disord** 1997 Nov;22(3):231–42

Explanations of body image disturbance: a test of maturational status, negative verbal commentary, social comparison, and sociocultural hypotheses. Stormer SM, et al. **Int J Eat Disord** 1996 Mar;19(2):193–202

Gender and interactions between care staff and elderly nursing home residents with dementia. Lindesay J, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):344–8

The supervisor as gender analyst: feminist perspectives on group supervision and training. Schoenholtz-Read J. **Int J Group Psychother** 1996 Oct;46(4):479–500 (33 ref.)

But is Paris really burning? Uncertainty anxieties and the normal chaos of love. Barale F, et al. **Int J Psychoanal** 1997 Apr;78 (Pt 2):373–8

Disavowal: structural effect and pathogenic dimension. Casas de Pereda M. **Int J Psychoanal** 1997 Apr;78 (Pt 2):379–84

Femininity and masculinity: clinical notes on mutual fears. Fandiño Filho RP. **Int J Psychoanal** 1997 Apr;78 (Pt 2):369–72

Opening remarks to a discussion of sexuality in contemporary psychoanalysis. Green A. **Int J Psychoanal** 1997 Apr;78 (Pt 2):345–50

Ladies of fashion: pleasure, perversion or paraphilia. Richards AK. **Int J Psychoanal** 1996 Apr;77 (Pt 2):337–51

Review of the psychoanalytic theory of sexuality: comments on the assault against it. Spruiell V. **Int J Psychoanal** 1997 Apr;78 (Pt 2):357–61

The Little Mermaid: an icon of woman's condition in patriarchy, and the human condition of castration. Tseëlon E. **Int J Psychoanal** 1995 Oct;76 (Pt 5):1017–30

Sexuality, femininity, and contemporary psychoanalysis. Tyson P. **Int J Psychoanal** 1997 Apr;78 (Pt 2):385–9

Sex differences in referral rates of children with gender identity disorder: some hypotheses. Zucker KJ, et al. **J Abnorm Child Psychol** 1997 Jun;25(3):217–27

Pedophilia, sexual orientation, and birth order. Bogaert AF, et al. **J Abnorm Psychol** 1997 May;106(2):331–5

Gender differences in cognitive diathesis-stress domain match: implications for differential pathways to depression. Spangler DL, et al. **J Abnorm Psychol** 1996 Nov; 105(4):653–57

Impact of a school-based prevention programme on traditional and egalitarian adolescents' safer sex intentions. Buysse A, et al. **J Adolesc** 1997 Apr;20(2):177–88

Gender differences in affective reactions to first coitus. Guggino JM, et al. **J Adolesc** 1997 Apr;20(2):189–200

Men in nursing: issues of gender segregation and hidden advantage. Evans J. **J Adv Nurs** 1997 Aug;26(2):226–31 (30 ref.)

The potential impact of gender stereotypes for nursing research. Hicks C. **J Adv Nurs** 1996 Nov;24(5):1006–13

Caring—a masculine perspective. MacDougall G. **J Adv Nurs** 1997 Apr;25(4):809–13

Gender identity disorder: a review of the past 10 years. Bradley SJ, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jul;36(7):872–80 (70 ref.)

Defense mechanisms in adolescents as a function of age, sex, and mental health status. Feldman SS, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Oct; 35(10):1344–54

Relationship of perceived competencies, perceived social support, and gender to substance use in young adolescents. Lifrak PD, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jul;36(7):933–40

Relationship between sexual abuse, gender, and sexually inappropriate behaviors in seriously mentally ill youths. McClellan J, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Jul;36(7):959–65

The macho Don Juan: a reply to Javier and Yussef [comment] Díaz de Chumaceiro CL. **J Am Acad Psychoanal** 1996 Fall; 24(3):555–62. Comment on: J Am Acad Psychoanal 1995 Spring;23(1):79–97.

Masculinity, femininity and change in psychoanalysis. Guarton GB. **J Am Acad Psychoanal** 1996 Winter; 24(4):691–708

Hiding behind motherhood. Turkel AR. **J Am Acad Psychoanal** 1996 Spring;24(1):163–77

Feminine subjectivity, embodiment, and reproduction. Van Buren J. **J Am Acad Psychoanal** 1996 Fall;24(3):431–43

Ethnicity, gender identity, stress, and coping among female African-American medical students. Shervington DO, et al. **J Am Med Womens Assoc** 1996 Aug–Oct;51(4):153–4

Beyond the he and the she: toward the reconciliation of masculinity and femininity in the postoedipal female mind. Bassin D. **J Am Psychoanal Assoc** 1996;44 Suppl:157–90

Theoretical gender and clinical gender: epistemological reflections on the psychology of women. Chodorow NJ. **J Am Psychoanal Assoc** 1996;44 Suppl:215–38

Masturbation fantasies in a prelatency girl: early female body fantasy conflicts as a major determinant in the experience of primary femininity. Pelaccio J. **J Am Psychoanal Assoc** 1996;44 Suppl:333–50

Nature, nurture, and core gender identity. Robbins M. **J Am Psychoanal Assoc** 1996;44 Suppl:93–117 (107 ref.)

Identity, sexuality and the self in late adolescence. Feldman B, et al. **J Anal Psychol** 1996 Oct;41(4):491–507

The Piano, the animus, and the colonial experience. Izod J. **J Anal Psychol** 1996 Jan;41(1):117–36

Self as the feminine principle. Weisstub EB. **J Anal Psychol** 1997 Jul;42(3):425–52; discussion 453–8

Gender differences in dimensions of anxiety sensitivity. Stewart SH, et al. **J Anxiety Disord** 1997 Mar–Apr; 11(2):179–200

Above the glass ceiling? A comparison of matched samples of female and male executives. Lyness KS, et al. **J Appl Psychol** 1997 Jun;82(3):359–75

Support for affirmative action, justice perceptions, and work attitudes: a study of gender and racial-ethnic group differences. Parker CP, et al. **J Appl Psychol** 1997 Jun; 82(3):376–89

Case study: cross-gender preoccupations with two male children with autism. Williams PG, et al. **J Autism Dev Disord** 1996 Dec;26(6):635–42

Gender differences in the relation between interview-derived hostility scores and resting blood pressure. Davidson K, et al. **J Behav Med** 1996 Apr;19(2):185–201

Sibling sex ratio of boys with gender identity disorder. Zucker KJ, et al. **J Child Psychol Psychiatry** 1997 Jul; 38(5):543–51 (131 ref.)

A feminist standpoint for genetics. Mahowald MB. **J Clin Ethics** 1996 Winter;7(4):333–40 (28 ref.)

She said/he said: ethics consultation and the gendered discourse [see comments] Rubin S, et al. **J Clin Ethics** 1996 Winter;7(4):321–32 (37 ref.). Comment in: J Clin Ethics 1996 Winter;7(4):315–9.

Indicators of feminine gender identity in latency-aged boys in the Draw a Person and the Rorschach tests. Benziman H, et al. **J Clin Psychol** 1997 Feb;53(2):143–57

Functional infertility and femininity: a comparison of infertile women and their mothers. Kipper DA, et al. **J Clin Psychol** 1996 Jul;52(4):375–82

Gender and smoking cessation: a factor structure comparison of processes of change. O'Connor EA, et al. **J Consult Clin Psychol** 1996 Feb;64(1):130–8

The relationship of peritraumatic dissociation and posttraumatic stress: findings in female Vietnam theater veterans. Tichenor V, et al. **J Consult Clin Psychol** 1996 Oct;64(5):1054–9

Pregnant and parenting adolescents and their younger sisters: the influence of relationship qualities for younger sister outcomes. East PL, et al. **J Dev Behav Pediatr** 1997 Apr; 18(2):84–90

Sammy: gender identity concerns in a 6-year-old boy. Stein MT, et al. **J Dev Behav Pediatr** 1997 Jun;18(3):178–82

Gender differences regarding peer influence and attitude toward substance abuse. Rienzi BM, et al. **J Drug Educ** 1996;26(4):339–47

What about men these days? The invisibility of gender [letter; comment] Korin DE, et al. **J Gen Intern Med** 1996 Jun; 11(6):381; discussion 382. Comment on: J Gen Intern Med 1996 Feb;1192):77–82.

Physician gender and estrogen replacement therapy [letter; comment] Lacroix A, et al. **J Gen Intern Med** 1997 May; 12(5):334. Comment on: J Gen Intern Med 1996 Apr;11(4):197–203.

Sex role conflict, social desirability, and eating-disorder attitudes and behaviors. Johnson ME, et al. **J Gen Psychol** 1996 Jan;123(1):75–87

The development of gender schemata about heterosexual and homosexual others during adolescence. Mallet P, et al. **J Gen Psychol** 1997 Jan;124(1):91–104

Student gender and teaching methods as sources of variability in children's computational arithmetic performance. Hopkins KB, et al. **J Genet Psychol** 1997 Sep;158(3):333–45

The association between receptive nonverbal processing abilities and internalizing/externalizing problems in girls and boys. Lancelot C, et al. **J Genet Psychol** 1997 Sep; 158(3):297–302

Role burdens: the impact of employment and family responsibilities on the health status of Latino women. Rivera R, et al. **J Health Care Poor Underserved** 1997 Feb; 8(1):99–113

Gender, multiple roles, role meaning, and mental health. Simon RW. **J Health Soc Behav** 1995 Jun;36(2):182–94

Validation of an inclusive model of sexual minority identity formation on a sample of gay men. Fassinger RE, et al. **J Homosex** 1996;32(2):53–78

Discrimination against men in medicine [letter] Thawani VR. **J Indian Med Assoc** 1996 Oct;94(10):391–2

Implications of the people = male theory for the interpretation of the Draw-A-Person Test. Merritt RD, et al. **J Pers Assess** 1997 Feb;68(1):211–4

A "feminine" model of vulnerability to depressive symptoms: a longitudinal investigation of middle-aged women. Bromberger JT, et al. **J Pers Soc Psychol** 1996 Mar; 70(3):591–8

Do gender-relevant characteristics determine cardiovascular reactivity? Match versus mismatch of traits and situation. Davis MC, et al. **J Pers Soc Psychol** 1996 Sep;71(3):527–35

Links between race/ethnicity and cultural values as mediated by racial/ethnic identity and moderated by gender. Gaines SO Jr, et al. **J Pers Soc Psychol** 1997 Jun;72(6):1460–76

Ability analysis of gender relevance and sex differences in cardiovascular response to behavioral challenge. Wright RA, et al. **J Pers Soc Psychol** 1997 Aug;73(2):405–17

Gender schema and gender role discrepancy as correlates of body image. Borchert J, et al. **J Psychol** 1996 Sep; 130(5):547–59

Masculinity, femininity, and Hispanic professional men's self-esteem and self-acceptance. Long VO, et al. **J Psychol** 1997 Sep;131(5):481–8

If men are really from Mars and women are really from Venus, then how are you changing your psychosocial care? Hardy B. **J Psychosoc Nurs Ment Health Serv** 1996 Aug; 34(8):50

Similarities and differences in couples' grief reactions following a miscarriage: results from a longitudinal study. Beutel M, et al. **J Psychosom Res** 1996 Mar;40(3):245–53

Women and HIV infection: investigation of its psychosocial consequences. Catalan J, et al. **J Psychosom Res** 1996 Jul; 41(1):39–47

Are multiple roles a risk factor for myocardial infarction in

women? Collijn DH, et al. **J Psychosom Res** 1996 Mar; 40(3):271–9

Prenatal predisposition and the clinical management of some pediatric conditions. Diamond M. **J Sex Marital Ther** 1996 Fall;22(3):139–47; discussion 148–74

Acknowledging mixed-sex people. McKain TL. **J Sex Marital Ther** 1996 Winter;22(4):265–74; discussion 275–9

Self- and peer-ratings of female and male roles and attributes. Chang L, et al. **J Soc Psychol** 1997 Aug;137(4):527–9

Adolescents' opposite-sex ideal in four countries. Gibbons JL, et al. **J Soc Psychol** 1996 Aug;136(4):531–7

Inferring gender from handwriting in Urdu and English. Hamid S, et al. **J Soc Psychol** 1996 Dec;136(6):778–82

Attitudes toward sexual behavior among unmarried Zambian secondary school females. Pillai VK, et al. **J Soc Psychol** 1996 Feb;136(1):111–2

Perceived weight of other persons. Rudin JP. **J Soc Psychol** 1996 Dec;136(6):719–26

The relationship of gender balance at work, family responsibilities and workplace characteristics to drinking among male and female attorneys. Shore ER. **J Stud Alcohol** 1997 May;58(3):297–302

The relationships of substance abuse to illegal and violent behavior, in a community sample of young adult African American men and women (gender differences). Friedman AS, et al. **J Subst Abuse** 1996;8(4):379–402

Willingness of female smokers to tolerate postcessation weight gain. Pomerleau CS, et al. **J Subst Abuse** 1996; 8(3):371–8

Gender roles and interactions in drinking and drug use. Room R. **J Subst Abuse** 1996;8(2):227–39 (46 ref.)

Addressing women's concerns about weight gain due to smoking cessation. Perkins KA, et al. **J Subst Abuse Treat** 1997 Mar–Apr;14(2):173–82 (65 ref.)

Factors in the cycle of violence: gender rigidity and emotional constriction. Lisak D, et al. **J Trauma Stress** 1996 Oct;9(4):721–43

Editorial: to be male or female--that is the question. Elder JS. **J Urol** 1997 Oct;158(4):1635

Gender differences in sexual activity among mid-aged adults in Massachusetts. Johannes CB, et al. **Maturitas** 1997 Apr; 26(3):175–84

Effects of gender on the doctor-patient relationship. Greatrex TS. **MD Comput** 1997 Jul–Aug;14(4):266–73

Language, gender and science. Keller EF. **Microbiologia** 1996 Mar;12(1):127–30

Perceptual asymmetries in judgements of facial attractiveness, age, gender, speech and expression. Burt DM, et al. **Neuropsychologia** 1997 May;35(5):685–93

Autonomy and goal attainment: parenting, gender, and children's social competence. Crockenberg S, et al. **New Dir Child Dev** 1996 Fall;(73):41–55

Researching and writing about working women [letter; comment] Halloran EJ. **Nurs Outlook** 1996 May–Jun; 44(3):150. Comment on: Nurs Outlook 1996 Jan–Feb;44(1):22–6.

Eyewitness accuracy and gender. Casiere DA, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):914

Perception of body shape by underweight average, and overweight men and women. Demarest J, et al. **Percept Mot Skills** 1996 Oct;83(2):569–70

Ratings of perceived exertion by a group of women: does Type A behavior act a modifier? Hassmén P, et al. **Percept Mot Skills** 1996 Oct;83(2):675–86

Language style and evaluation of a female speaker. Hawkes KC, et al. **Percept Mot Skills** 1996 Aug;83(1):80–2

Identifying sex from handwriting. Hayes WN. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):791–800

Conversations between older men and women: turn-taking and topics. Martin M, et al. **Percept Mot Skills** 1996 Dec; 83(3 Pt 2):1330

Gender differences during processing of the Stroop task. Mekarski JE, et al. **Percept Mot Skills** 1996 Oct;83(2):563–8

Sex differences on exercise dependence for men and women in a marathon road race. Pierce EF, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):991–4

Ganzfeld perceptual field and gender effects on short-term memory as a function of rate of digit presentation. Vitulli WF, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1331–40

Women and nurture in industrial societies. Van Esterik P. **Proc Nutr Soc** 1997 Mar;56(1B):335–43

Motherhood, motherliness, and psychogenic infertility. Allison GH. **Psychoanal Q** 1997 Jan;66(1):1–17

Primary femininity, bisexuality, and the female ego ideal: a re-examination of female developmental theory. Elise D. **Psychoanal Q** 1997 Jul;66(3):489–517

Reflections on feminine and masculine authority: a developmental perspective. Hanly CM. **Psychoanal Q** 1996 Jan;65(1):84–101

Psychoanalytic and literary perspectives on procreation conflicts in women. Morris MG. **Psychoanal Rev** 1997 Feb; 84(1):109–28

The concept of penis envy revisited. A child analyst listens to adult women. Dahl EK. **Psychoanal Study Child** 1996; 51:303–25

Mother's milk. A psychoanalyst looks at breastfeeding. Friedman M. **Psychoanal Study Child** 1996;51:475–90

Stress of parent care: positive and negative effects of women's other roles. Stephens MA, et al. **Psychol Aging** 1997 Jun; 12(2):376–86

What do men want? Gender differences and two spheres of belongingness: comment on Cross and Madson (1997) [comment] Baumeister RF, et al. **Psychol Bull** 1997 Jul; 122(1):38–44; discussion 51–5. Comment on: Psychol Bull 1997 Jul;122(1):5–37.

Parental investment theory and gender differences in the evolution of inhibition mechanisms. Bjorklund DF, et al. **Psychol Bull** 1996 Sep;120(2):163–88 (200 ref.)

Models of the self: self-construals and gender [see comments] Cross SE, et al. **Psychol Bull** 1997 Jul;122(1):5–37 (475 ref.) . Comment in: Psychol Bull 1997 Jul;122(1):38–44; discussion 51–5. Comment in: Psychol Bull 1997 Jul;122(1):45–50; discussion 51–5.

Developmental and social influences on young girls' early problem behavior. Keenan K, et al. **Psychol Bull** 1997 Jan; 121(1):95–113 (125 ref.)

A developmental perspective of self-construals and sex differences: comment on Cross and Madson (1997) [comment] Martin CL, et al. **Psychol Bull** 1997 Jul; 122(1):45–50; discussion 51–5. Comment on: Psychol Bull 1997 Jul;122(1):5–37.

Gender differences in the onset of depression following a shared life event: a study of couples. Nazroo JY, et al. **Psychol Med** 1997 Jan;27(1):9–19

Association of identity and intimacy: an exploration of gender and sex-role orientation. Bartle-Haring S, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1255–64

Co-sleeping: gender differences in college students' retrospective reports of sleeping with parents during childhood. Billingham RE, et al. **Psychol Rep** 1996 Dec; 79(3 Pt 2):1423–6

The face of AIDS: Effects of physical attractiveness and target gender on inferred mode of HIV infection. Boehm L, et al. **Psychol Rep** 1996 Apr;78(2):595–8

Gender differences in attitudes and recruitment into psychiatry [comment] Eagles JM. **Psychol Rep** 1996 Apr; 78(2):653–4. Comment on: Psychol Rep 1995 Dec;77(3 Pt 1):843–7.

College women who initiate assaults on their male partners and the reasons offered for such behavior. Fiebert MS, et al. **Psychol Rep** 1997 Apr;80(2):583–90

Effects of sex of caller, implied sexual orientation of caller, and urgency on altruistic response using the wrong number technique. Gore KY, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):927–30

Risk-taking behavior: a cognitive approach. Kohler MP. **Psychol Rep** 1996 Apr;78(2):489–90

Content differences in suicide notes by gender and age: serendipitous findings [see comments] Linn M, et al. **Psychol Rep** 1996 Apr;78(2):370. Comment in: Percept Mot Skills 1992 Oct;75(2):582.

Sex and mathematical background as predictors of anxiety and self-efficacy in mathematics. Lussier G. **Psychol Rep** 1996 Dec;79(3 Pt 1):827–33

Male nurses' sex-role orientation and values. McCutcheon LE. **Psychol Rep** 1996 Dec;79(3 Pt 2):1227–32

Social support, need for support, and anxiety among women graduate students. Munir SS, et al. **Psychol Rep** 1997 Apr; 80(2):383–6

Sex differences in pathological gambling using gaming machines. Ohtsuka K, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):1051–7

Types of criminal acts women are likely to commit [comment] Simon RJ. **Psychol Rep** 1996 Oct;79(2):669–70 . Comment on: Psychol Rep 1996 Aug;79(1):92–4.

Failure to support a test for penis envy. Skinner NF. **Psychol Rep** 1997 Jun;80(3 Pt 1):754

Hypochondria in women as a function of birth order. Skinner NF. **Psychol Rep** 1997 Jun;80(3 Pt 2):1344–6

Sex-role orientation among incarcerated women [see comments] Trice AD, et al. **Psychol Rep** 1996 Aug; 79(1):92–4. Comment in: Psychol Rep 1996 Oct;79(2):669–70.

Elderly persons' perceptions of humor as a gender-linked characteristic. Vitulli WF, et al. **Psychol Rep** 1996 Feb; 78(1):83–9

Gender differences in beliefs of why women live longer than men. Wallace JE. **Psychol Rep** 1996 Oct;79(2):587–91

Gender and marital differences for risk taking among undergraduates. West GB, et al. **Psychol Rep** 1996 Feb; 78(1):315–20

Sexual harassment: the "reasonable person" vs "reasonable woman" standards have not been resolved. Woody WD, et al. **Psychol Rep** 1996 Feb;78(1):329–30

Making attributions to the physician following closing arguments of a simulated medical malpractice suit: jurors' sex, health locus of control, and locus of authority. Worthington DL. **Psychol Rep** 1997 Jun;80(3 Pt 1):943–6

Symptoms at the menopausal and premenopausal years: their relationship with insulin, glucose, cortisol, FSH, prolactin, obesity and attitudes towards sexuality. Huerta R, et al. **Psychoneuroendocrinology** 1995;20(8):851–64

Anxiety and hostility in written verbal samples of male and female subjects. A content analytic study. Sanfuentes MT, et al. **Psychopathology** 1996;29(3):169–73

Influence of ethnicity and gender on cardiovascular responses to active coping and inhibitory-passive coping challenges. Saab PG, et al. **Psychosom Med** 1997 Jul–Aug;59(4):434–46

When women are under the influence. Does drinking or drug use by women provoke beatings by men? Kantor GK, et al. **Recent Dev Alcohol** 1997;13:315–36 (91 ref.)

Reproduction and resistance to the culture of femininity and masculinity in secondary school physical education. Chepyator-Thomson JR, et al. **Res Q Exerc Sport** 1997 Mar;68(1):89–99

Gender differences in the development of depression. Ahnlund K, et al. **Scand J Psychol** 1996 Sep;37(3):229–37

Gender and grade differences in latent ability variables. Härnqvist K. **Scand J Psychol** 1997 Mar;38(1):55–62

Gender, family configuration, and the effect of family background on educational attainment. Kuo HH, et al. **Soc Biol** 1996 Spring–Summer;43(1–2):98–131

Female and male physicians' attitudes toward prenatal diagnosis: a Pan-Canadian survey. Bouchard L, et al. **Soc Sci Med** 1997 Feb;44(3):381–92

Female labor force participation and suicide. Burr JA, et al. **Soc Sci Med** 1997 Jun;44(12):1847–59

Migrancy, masculine identities and AIDS: the psychosocial context of HIV transmission on the South African gold mines. Campbell C. **Soc Sci Med** 1997 Jul;45(2):273–81

Problems in accurate medical diagnosis of depression in female patients. Floyd BJ. **Soc Sci Med** 1997 Feb; 44(3):403–12 (60 ref.)

AIDS as a paradox of manhood and development in Kilimanjaro, Tanzania. Setel P. **Soc Sci Med** 1996 Oct; 43(8):1169–78

Sex differences in physical symptoms: the contribution of symptom perception theory. van Wijk CM, et al. **Soc Sci Med** 1997 Jul;45(2):231–46 (100 ref.)

Puerto Rican sons as primary caregivers of elderly parents. Delgado M, et al. **Soc Work** 1997 Mar;42(2):125–34

Gender differences in parenting a child with cancer. Brown KA, et al. **Soc Work Health Care** 1996;22(4):53–71

"Things were different then": countertransference issues for younger female therapists working with older female clients. Levine L. **Soc Work Health Care** 1996;22(4):73–88 (20 ref.)

Protective factors for suicidal black females. Nisbet PA. **Suicide Life Threat Behav** 1996 Winter;26(4):325–41

Gender and suicide risk among artists: a multivariate analysis. Stack S. **Suicide Life Threat Behav** 1996 Winter;26(4):374–9

Gender-identity, body-experience, sexuality, and the wish for having children in DES-daughters. Bekker MH, et al. **Women Health** 1996;24(2):65–82

Women and the heterosexual transmission of HIV: risks and prevention strategies. Gavey N, et al. **Women Health** 1997; 25(2):41–64 (115 ref.)

Why can't a woman be more like a man? A renaissance perspective on the biological basis for female inferiority. Walton MT, et al. **Women Health** 1996;24(4):87–95

[What did hormonal contraception change for women?] Lachowsky M. **Contracept Fertil Sex** 1996 Nov; 24(11):816–8 (Eng. Abstr.) **(Fre)**

[True hermaphroditism in Senegal: cultural and religious influences on sexual orientation (letter)] Hadjadj S, et al. **Med Trop (Mars)** 1996;56(4):411–2 **(Fre)**

[History of menstruation--an aspect of the medical history of the woman] Backe J. **Gynakol Geburtshilfliche Rundsch** 1996;36(4):201–7 (Eng. Abstr.) **(Ger)**

["Crazy women deceive the imprudent man": recognition and defamation of female and male physicians, 1450 to 1700] Kinzelbach A. **Medizinhist J** 1997;32(1):29–56 **(Ger)**

[Clara Schumann: "A woman's love and life". A psychoanalytic interpretation] Halberstadt-Freud HC. **Psyche (Stuttg)** 1996 Mar;50(3):193–217 **(Ger)**

[Department social climate on mixed sex and segregated acute psychiatric units. Results of a survey] Vieweg T, et al. **Psychiatr Prax** 1996 Nov;23(6):290–3 (Eng. Abstr.) **(Ger)**

[The ideal image and sex role norms in the Giessen Test] Beckmann D, et al. **Psychother Psychosom Med Psychol** 1997 Feb;47(2):52–7 (Eng. Abstr.) **(Ger)**

[Unmarried women of the war generation: an explorative study of their goals in life and personal satisfaction] Wilken B, et al. **Z Gerontol Geriatr** 1997 Jan–Feb;30(1):34–45 (Eng. Abstr.) **(Ger)**

[The relation of age, gender and sex-role identity to role expectation in same-sex friends] Wada M. **Shinrigaku Kenkyu** 1996 Aug;67(3):232–7 (Eng. Abstr.) **(Jpn)**

GENDER RELATIONS see **INTERPERSONAL RELATIONS**

GENDER ROLE see **GENDER IDENTITY**

GENE ACTION REGULATION see **GENE EXPRESSION REGULATION**

GENE ACTIVATION see **GENE EXPRESSION REGULATION**

GENE AMPLIFICATION

see related
GENE DOSAGE

Polymerase chain reaction amplification of a measles virus sequence from human temporal bone sections with active otosclerosis. McKenna MJ, et al. **Am J Otol** 1996 Nov; 17(6):827–30

Amplification of the t(2; 13) and t(1; 13) translocations of alveolar rhabdomyosarcoma in small formalin-fixed biopsies using a modified reverse transcriptase polymerase chain reaction. Anderson J, et al. **Am J Pathol** 1997 Feb;

150(2):477–82

Amplification of the c-erbB-2 (HER-2/neu) gene in gastric cancer cells. Detection by fluorescence in situ hybridization. Ishikawa T, et al. **Am J Pathol** 1997 Sep; 151(3):761–8

Gains, losses, and amplifications of DNA sequences evaluated by comparative genomic hybridization in chondrosarcomas. Larramendy ML, et al. **Am J Pathol** 1997 Feb;150(2):685–91

Amplification of CCND1 and expression of its protein product, cyclin D1, in ductal carcinoma in situ of the breast. Simpson JF, et al. **Am J Pathol** 1997 Jul;151(1):161–8

The erbB oncogenes as prognostic markers in oral squamous cell carcinomas. Werkmeister R, et al. **Am J Surg** 1996 Dec;172(6):681–3

Taq-amplified fragments appear as doublets in denaturing gradient gels. Zhu D, et al. **Anal Biochem** 1997 Jan 15; 244(2):404–6

Gene amplification in the diagnosis of mycobacterial infections. Soini H, et al. **APMIS** 1997 May;105(5):345–53 (57 ref.)

Co-amplification explains linkage disequilibrium of two mosquito esterase genes in insecticide-resistant Culex quinquefasciatus. Vaughan A, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):359–65

Direct exponential amplification and sequencing (DEXAS) of genomic DNA. Kilger C, et al. **Biol Chem** 1997 Feb; 378(2):99–105

Production of PCR mimics for any semiquantitative PCR application. Ali SA, et al. **Biotechniques** 1997 Jun; 22(6):1060–2

Strategy for controlling preferential amplification and avoiding false negatives in PCR typing. Weissensteiner T, et al. **Biotechniques** 1996 Dec;21(6):1102–8

BCL2 overexpression associated with chromosomal amplification in diffuse large B-cell lymphoma. Monni O, et al. **Blood** 1997 Aug 1;90(3):1168–74

Use of the direct RNA amplification technique NASBA to detect factor V Leiden, a point mutation associated with APC resistance. Reitsma PH, et al.
Blood Coagul Fibrinolysis 1996 Sep;7(6):659–63

Clinical relevance of TRKA expression on neuroblastoma: comparison with N-MYC amplification and CD44 expression. Combaret V, et al. **Br J Cancer** 1997; 75(8):1151–5

Classical gene amplifications in human breast cancer are not associated with distant solid metastases. Driouch K, et al. **Br J Cancer** 1997;76(6):784–7

MDM2 gene amplification and expression in non-small-cell lung cancer: immunohistochemical expression of its protein is a favourable prognostic marker in patients without p53 protein accumulation. Higashiyama M, et al.
Br J Cancer 1997;75(9):1302–8

Identification of genetic changes associated with drug resistance by reverse in situ hybridization. Hoare SF, et al. **Br J Cancer** 1997;75(2):275–82

Amplification of mitochondrial DNA in acute myeloid leukaemia [see comments] Boultwood J, et al.
Br J Haematol 1996 Nov;95(2):426–31. Comment in: Br J Haematol 1997 Apr;97(1):242. Comment in: Br J Haematol 1997 Apr;97(1):244–5.

Amplifications of oncogene erbB-2 and chromosome 20q in breast cancer determined by differentially competitive polymerase chain reaction. Deng G, et al.
Breast Cancer Res Treat 1996;40(3):271–81

Prognostic significance of c-erb-B2 amplification in fine-needle biopsies of breast cancer patients not operated at diagnosis. Lönn U, et al. **Breast Cancer Res Treat** 1996; 39(2):213–20

Gene amplification and proliferative kinetics in relation to prognosis of patients with gastric carcinoma. Amadori D, et al. **Cancer** 1997 Jan 15;79(2):226–32

Prognostic significance of HER-2/neu gene amplification status by fluorescence in situ hybridization of prostate carcinoma. Ross JS, et al. **Cancer** 1997 Jun 1;79(11):2162–70

c-myc amplification in a preleukemia patient with trisomy 4 and double minutes: review of the unique coexistence of these two chromosome abnormalities in acute myelogenous leukemia. Reddy KS, et al.
Cancer Genet Cytogenet 1997 Jun;95(2):206–9 (10 ref.)

Microsatellite markers as tools for characterization of DNA amplifications evaluated by comparative genomic hybridization. Wolf M, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):33–8

Gene amplification of int-2 and erbB in human esophageal cancer: relationship to clinicopathological variables. Suzuki H, et al. **Cancer Invest** 1997;15(5):411–5

Investigation of c-myc and K-ras amplification in renal clear cell adenocarcinoma. Kozma L, et al. **Cancer Lett** 1997 Jan 1;111(1–2):127–31

Enhanced XPA mRNA levels in cisplatin-resistant human ovarian cancer are not associated with XPA mutations or gene amplification. States JC, et al. **Cancer Lett** 1996 Nov 29;108(2):233–7

Comparative genomic hybridization analysis detects frequent, often high-level, overrepresentation of DNA sequences at 3q, 5p, 7p, and 8q in human non-small cell lung carcinomas. Balsara BR, et al. **Cancer Res** 1997 Jun 1;57(11):2116–20

Amplification of the genes BCHE and SLC2A2 in 40% of squamous cell carcinoma of the lung. Brass N, et al.
Cancer Res 1997 Jun 1;57(11):2290–4

Cyclin-dependent kinase 6 (CDK6) amplification in human gliomas identified using two-dimensional separation of genomic DNA. Costello JF, et al. **Cancer Res** 1997 Apr 1;57(7):1250–4

Identification of a new P-glycoprotein-like ATP-binding cassette transporter gene that is overexpressed during hepatocarcinogenesis. Furuya KN, et al. **Cancer Res** 1997 Sep 1;57(17):3708–16

Detection of c-myc oncogene amplification and chromosomal anomalies in metastatic prostatic carcinoma by fluorescence in situ hybridization. Jenkins RB, et al. **Cancer Res** 1997 Feb 1;57(3):524–31

Characterization of a high copy number amplification at 6q24 in pancreatic cancer identifies c-myb as a candidate oncogene. Wallrapp C, et al. **Cancer Res** 1997 Aug 1; 57(15):3135–9

Induction of large DNA palindrome formation in yeast: implications for gene amplification and genome stability in eukaryotes. Butler DK, et al. **Cell** 1996 Dec 13; 87(6):1115–22

Human chromosomal fragile site FRA16B is an amplified AT-rich minisatellite repeat. Yu S, et al. **Cell** 1997 Feb 7;88(3):367–74

Timing of differential amplification of macronucleus-destined sequences during macronuclear development in the hypotrichous ciliate Euplotes crassus. Dönhoff T, et al. **Chromosoma** 1996 Sep;105(3):172–9

De novo chromosome formations by large-scale amplification of the centromeric region of mouse chromosomes. Keresö J, et al. **Chromosome Res** 1996 Apr; 4(3):226–39

Specific oncological contribution of cathepsin D and pS2 in human breast cancer: their relationship with TNM status, estradiol receptors, epidermal growth factor receptor and neu amplification. Bolufer P, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):89–103

Prognostic significance of c-erbB-2/neu amplification and epidermal growth factor receptor (EGFR) in primary breast cancer and their relation to estradiol receptor (ER) status. Torregrosa D, et al. **Clin Chim Acta** 1997 Jun 27; 262(1–2):99–119

In-111 pentetreotide scintigraphy in patients with neuroblastoma. Comparison with I-131 MIBG, N-Myc oncogene amplification, and patient outcome.
Shalaby-Rana E, et al. **Clin Nucl Med** 1997 May; 22(5):315–9

Analytic performance and contamination control methods of a ligase chain reaction DNA amplification assay for detection of Chlamydia trachomatis in urogenital specimens. Hu HY, et al. **Diagn Microbiol Infect Dis** 1996 Feb;24(2):71–6

MDM2 amplification, P53 mutation, and accumulation of the P53 gene product in malignant fibrous histiocytoma. Reid AH, et al. **Diagn Mol Pathol** 1996 Mar;5(1):65–73

Protein alterations associated with gene amplification in cultured human and rodent cells. Conner EA, et al.
Electrophoresis 1996 Jul;17(7):1257–64

Overexpression of glutathione S-transferase pi messenger RNA and its relationship to gene amplification in head and neck squamous cell carcinoma. Pavelic ZP, et al.
Eur Arch Otorhinolaryngol Suppl 1997;1:S144–6

Amplification of multiple regions of chromosome 12, including 12q13-15, in chronic lymphocytic leukaemia. Merup M, et al. **Eur J Haematol** 1997 Mar;58(3):174–80

Androgen receptor gene amplification in a recurrent prostate cancer after monotherapy with the nonsteroidal potent antiandrogen Casodex (bicalutamide) with a subsequent favorable response to maximal androgen blockade. Palmberg C, et al. **Eur Urol** 1997;31(2):216–9

INT-2 gene amplification in differentiated human thyroid cancer. Schulte KM, et al.
Exp Clin Endocrinol Diabetes 1996;104 Suppl 4:101–4

Plasmodium falciparum: amplification and overexpression of pfmdr1 is not necessary for increased mefloquine resistance. Lim AS, et al. **Exp Parasitol** 1996 Aug;83(3):295–303

The DDX1 gene maps within 400 kbp 5' to MYCN and is frequently coamplified in human neuroblastoma. Amler LC, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):134–7

Molecular cytogenetic characterization and physical mapping of 12q13–15 amplification in human cancers. Elkahloun AG, et al. **Genes Chromosomes Cancer** 1996 Dec; 17(4):205–14

Amplification of a DEAD box gene (DDX1) with the MYCN gene in neuroblastomas as a result of cosegregation of sequences flanking the MYCN locus. Noguchi T, et al.
Genes Chromosomes Cancer 1996 Feb;15(2):129–33

Detection of 11q13 amplification as the origin of a homogeneously staining region in small cell lung cancer by chromosome microdissection. Xu J, et al.
Genes Chromosomes Cancer 1996 Nov;17(3):172–8

Sequential amplification of cloned DNA as tandem multimers using class-IIS restriction enzymes. Lee JH, et al.
Genet Anal 1996 Dec;13(6):139–45

"Does ligase chain reaction assay of urine in the diagnosis of Chlamydia trachomatis offer significant improvement over existing diagnostic tests?"--a critical appraisal of the evidence. Grun L, et al. **Genitourin Med** 1996 Dec; 72(6):435–9

Transcript mapping in a 46-kb sequenced region at the core of 12q13.3 amplification in human cancers. Elkahloun AG, et al. **Genomics** 1997 Jun 1;42(2):295–301

Cyclin D1 abnormalities and tobacco exposure in head and neck squamous cell carcinoma. Davidson BJ, et al.
Head Neck 1996 Nov–Dec;18(6):512–21

Double minute chromosomes contain amplified c-myc oncogene sequences in acute myeloid leukemia. Mohamed AN, et al. **Hematopathol Mol Hematol** 1996;10(4):193–9

Twelve amplified and expressed genes localized in a single domain in glioma. Fischer U, et al. **Hum Genet** 1996 Nov; 98(5):625–8

Isolation of genes amplified in human cancers by microdissection mediated cDNA capture. Gracia E, et al.
Hum Mol Genet 1996 May;5(5):595–600

Amplification of stromelysin-3 transcripts from carcinomas of the colon. Johnson LD, et al. **Hum Pathol** 1996 Sep; 27(9):964–8

Angiotensin-converting enzyme gene mutations, blood pressures, and cardiovascular homeostasis. Krege JH, et al. **Hypertension** 1997 Jan;29(1 Pt 2):150–7

Effect of amplification of the Cap b locus on complement-mediated bacteriolysis and opsonization of type b Haemophilus influenzae. Noel GJ, et al.
Infect Immun 1996 Nov;64(11):4769–75

Cyclin-D1-gene amplification and expression in breast carcinoma: relation with clinicopathologic characteristics and with retinoblastoma gene product, p53 and p21WAF1 immunohistochemical expression. Barbareschi M, et al.
Int J Cancer 1997 Apr 22;74(2):171–4

Polymerase chain reaction compared with dot blotting for the determination of N-myc gene amplification in neuroblastoma. de Cremoux P, et al. **Int J Cancer** 1997 Jul 29;72(3):518–21

Glucose-transporter-type-I-gene amplification correlates with sialyl-Lewis-X synthesis and proliferation in lung cancer. Ogawa J, et al. **Int J Cancer** 1997 Apr 22; 74(2):189–92

Evaluation of the NASBA nucleic acid amplification system for assessment of the viability of Campylobacter jejuni. Uyttendaele M, et al. **Int J Food Microbiol** 1997 Jun 17; 37(1):13–20

C-myc overexpression facilitates radiation-induced DHFR gene amplification. Lücke-Huhle C, et al.
Int J Radiat Biol 1997 Feb;71(2):167–75

Redesigning the quaternary structure of R67 dihydrofolate reductase. Creation of an active monomer from a tetrameric protein by quadruplication of the gene. Bradrick TD, et al. **J Biol Chem** 1996 Nov 8;271(45):28031–7

Involvement of calcium-dependent protein kinase C in arsenite-induced genotoxicity in Chinese hamster ovary cells. Liu YC, et al. **J Cell Biochem** 1997 Mar 1;64(3):423–33

MYC family DNA amplification in 126 tumor cell lines from patients with small cell lung cancer. Johnson BE, et al.
J Cell Biochem Suppl 1996;24:210–7

Amplification of the parathyroid hormone-related peptide gene in a colonic carcinoma. Sidler B, et al.
J Clin Endocrinol Metab 1996 Aug;81(8):2841–7

HER-2/neu gene amplification characterized by fluorescence in situ hybridization: poor prognosis in node-negative breast carcinomas. Press MF, et al. **J Clin Oncol** 1997 Aug; 15(8):2894–904

Co-amplification of the amelogenin and HLA DQ alpha genes: optimization and validation. Taylor MS, et al.
J Forensic Sci 1997 Jan;42(1):130–6

Inherited DNA amplification of the proximal 15q region: cytogenetic and molecular studies. Mignon C, et al.
J Med Genet 1997 Mar;34(3):217–22

The possibilities and limitations of nucleic acid amplification technology in diagnostic microbiology. Vaneechoutte M, et al. **J Med Microbiol** 1997 Mar;46(3):188–94 (63 ref.)

Site-specific in situ amplification of the integrated polyomavirus genome: a case for a context-specific over-replication model of gene amplification. Syu LJ, et al. **J Mol Biol** 1997 Aug 8;271(1):76–99

A family of differentially amplified repetitive DNA sequences in the genus Beta reveals genetic variation in Beta vulgaris subspecies and cultivars. Kubis S, et al. **J Mol Evol** 1997 Mar;44(3):310–20

Genetic approaches to cancer unfold [news] McBride G.
J Natl Cancer Inst 1996 Dec 4;88(23):1709–11

N-myc amplification and its relationship to experimental therapy. Livingstone A, et al. **J Neurooncol** 1997 Jan; 31(1–2):33–9

Amplification and overexpression of MDM2 in primary (de novo) glioblastomas. Biernat W, et al.
J Neuropathol Exp Neurol 1997 Feb;56(2):180–5

PG25, a pineal-specific cDNA, cloned by differential display PCR (DDPCR) and rapid amplification of cDNA ends (RACE). Wang X, et al. **J Neurosci Methods** 1997 May 16;73(2):187–91

SAS is amplified predominantly in surface osteosarcoma. Noble-Topham SE, et al. **J Orthop Res** 1996 Sep; 14(5):700–5

The Sendai paramyxovirus accessory C proteins inhibit viral genome amplification in a promoter-specific fashion. Cadd T, et al. **J Virol** 1996 Aug;70(8):5067–74

Induction of human papillomavirus type 18 late gene expression and genomic amplification in organotypic cultures from transfected DNA templates. Frattini MG, et al. **J Virol** 1997 Sep;71(9):7068–72

Analysis of the VPg-proteinase (NIa) encoded by tobacco etch potyvirus: effects of mutations on subcellular transport, proteolytic processing, and genome amplification. Schaad MC, et al. **J Virol** 1996 Oct; 70(10):7039–48

Population-based screening programmes for Chlamydia

trachomatis [letter] Caul EO, et al. **Lancet** 1997 Apr 12; 349(9058):1070–1

Application of fluorescence in situ hybridization to detect N–myc (MYCN) gene amplification on paraffin–embedded tissue sections of neuroblastomas. Hachitanda Y, et al. **Med Pediatr Oncol** 1997 Aug;29(2):135–8

Concomitant p53 mutation and MYCN amplification in neuroblastoma. Manhani R, et al. **Med Pediatr Oncol** 1997 Sep;29(3):206–7

Selection of transfected cells and coamplification of transfected genes. Kane SE. **Methods Mol Biol** 1997; 62:359–67

Amplification of a Streptomyces lividans 4.3 kb DNA element causes overproduction of a novel hypha– and vesicle–associated protein. Betzler M, et al. **Microbiology** 1997 Apr;143 (Pt 4):1243–52

Nucleic acid amplification tests for tuberculosis. **MMWR Morb Mortal Wkly Rep** 1996 Nov 1;45(43):950–2

Quantitation of HER–2/neu and c–myc gene amplification in breast carcinoma using fluorescence in situ hybridization. Persons DL, et al. **Mod Pathol** 1997 Jul;10(7):720–7

Identification of HER–2/neu oncogene amplification by fluorescence in situ hybridization in stage I endometrial carcinoma. Riben MW, et al. **Mod Pathol** 1997 Aug; 10(8):823–31

Typing of Mycoplasma pneumoniae by nucleic acid sequence–based amplification, NASBA. Övyn C, et al. **Mol Cell Probes** 1996 Oct;10(5):319–24

Stress–induced rearrangement of Fusarium retrotransposon sequences. Anaya N, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):89–94

Dictyostelium discoideum cobB mutants show reduced heavy metal accumulation associated with gene amplification. Hughes JE, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):65–73

Nucleotide sequence and role in DNA amplification of the direct repeats composing the amplifiable element AUD1 of Streptomyces lividans 66. Volff JN, et al. **Mol Microbiol** 1996 Sep;21(5):1037–47

Generation of Rhizobium strains with improved symbiotic properties by random DNA amplification (RDA) [see comments] Mavingui P, et al. **Nat Biotechnol** 1997 Jun; 15(6):564–9. Comment in: Nat Biotechnol 1997 Jun;15(6):511.

Hydroxyurea accelerates the loss of epidermal growth factor receptor genes amplified as double–minute chromosomes in human glioblastoma multiforme. Canute GW, et al. **Neurosurgery** 1996 Nov;39(5):976–83

Screening differentially expressed cDNA clones obtained by differential display using amplified RNA. Poirier GM, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):913–4

20q gain associates with immortalization: 20q13.2 amplification correlates with genome instability in human papillomavirus 16 E7 transformed human uroepithelial cells. Savelieva E, et al. **Oncogene** 1997 Feb 6;14(5):551–60

Polyomavirus large T antigen–dependent DNA amplification. Stiegler P, et al. **Oncogene** 1997 Feb 27; 14(8):987–95

Differential changes in genome structure and expression of the mdr gene family in multidrug–resistant murine erythroleukemia cell lines. Fracasso PM, et al. **Oncol Res** 1997;9(4):183–91

Correlation between p53 mutation and cyclin D1 amplification in had and neck squamous cell carcinoma. Mineta H, et al. **Oral Oncol** 1997 Jan;33(1):42–6

Amplification of the c–erbB–2 gene detected by FISH in gastric cancers. Sato T, et al. **Pathol Int** 1997 Feb–Mar; 47(2–3):179–82

Intron insertion facilitates amplification of cloned virus cDNA in Escherichia coli while biological activity is reestablished after transcription in vivo. Johansen IE. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12400–5

Androgen receptor gene amplification: a novel molecular mechanism for endocrine therapy resistance in human prostate cancer. Koivisto P, et al. **Scand J Clin Lab Invest Suppl** 1996;226:57–63 (19 ref.)

AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. Anzick SL, et al. **Science** 1997 Aug 15; 277(5328):965–8

Evidence that resistance to osmotic stress is mediated by gene amplification. Harris M. **Somat Cell Mol Genet** 1997 Jan; 23(1):19–25

Amplification units and translocation at chromosome 17q and c–erbB–2 overexpression in the pathogenesis of breast cancer. Coene ED, et al. **Virchows Arch** 1997 May; 430(5):365–72

Report of EPFA/NIBSC workshop 'nucleic acid amplification tests (NAT) for the detection of blood–borne viruses' held on 31 October 1996 in Amsterdam, The Netherlands. Rogers PM, et al. **Vox Sang** 1997; 72(4):199–206

[Amplification of oncogenes in solid tumors in children] Mareš J, et al. **Cas Lek Cesk** 1996 Jul 31;135(15):493–6 (Eng. Abstr.) **(Cze)**

[Mutation frequency of the p16/CDKN2 gene and amplification of the cyclin E gene in human primary gastric carcinomas] Sasaki H, et al. **Nippon Rinsho** 1996 Apr; 54(4):1049–53 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of the p16INK4, p15INK4B genes abnormality and the amplification of cyclin D1 gene in esophageal cancer] Takamura H, et al. **Nippon Rinsho** 1996 Apr;54(4):1043–8 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Fast DNA amplification in small ultrathin–wall microplates] Tret'iakov AN, et al. **Bioorg Khim** 1997 Jun;23(6):526–8 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Inefficient growth arrest in response to dNTP starvation stimulates gene amplification through bridge–breakage–fusion cycles. Poupon MF, et al. **Mol Biol Cell** 1996 Mar;7(3):345–54

Participation of deoxyribonucleic acid polymerase alpha in amplification of ribosomal deoxyribonucleic acid in Xenopus laevis. Zimmermann W, et al. **Mol Cell Biol** 1981 Aug;1(8):680–6

GENETICS

Amplification of the cyclin–dependent kinase 4 (CDK4) gene is associated with high cdk4 protein levels in glioblastoma multiforme. Rollbrocker B, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):70–4

Comparative amplification analysis of human glioma tissue and glioma derived fragment spheroids using reverse chromosome painting (RCP). Janka M, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2601–6

Biologic implications of genetic changes in head and neck squamous cell carcinogenesis. Reid CB, et al. **Aust N Z J Surg** 1997 Jul;67(7):410–6 (72 ref.)

DNA amplifications at 20q13 and MDM2 define distinct subsets of evolved breast and ovarian tumours. Courjal F, et al. **Br J Cancer** 1996 Dec;74(12):1984–9

Amplification of cyclin D1 in squamous cell carcinoma of the head and neck and the prognostic value of chromosomal abnormalities and cyclin D1 overexpression. Akervall JA, et al. **Cancer** 1997 Jan 15;79(2):380–9

Amplification of a rearranged form of the high–mobility group protein gene HMGIC in OsA–CI osteosarcoma cells. Kools PF, et al. **Cancer Genet Cytogenet** 1996 Oct 1; 91(1):1–7

Amplification in tumors and benign tissue of breast cancer patients. Yazici H, et al. **Cancer Lett** 1996 Oct 22; 107(2):235–9

Androgen receptor gene amplification: a possible molecular mechanism for androgen deprivation therapy failure in prostate cancer. Koivisto P, et al. **Cancer Res** 1997 Jan 15;57(2):314–9

Refined mapping of 12q13–q15 amplicons in human malignant gliomas suggests CDK4/SAS and MDM2 as independent amplification targets. Reifenberger G, et al. **Cancer Res** 1996 Nov 15;56(22):5141–5

Expression of fragile sites triggers intrachromosomal mammalian gene amplification and sets boundaries to early amplicons. Coquelle A, et al. **Cell** 1997 Apr 18;89(2):215–25

Mollaret's meningitis: case report with immunocytochemical and polymerase chain reaction amplification studies. Teot LA, et al. **Diagn Cytopathol** 1996 Nov;15(4):345–8

Plasmodium falciparum: chloroquine selection of a cloned line and DNA rearrangements. Lim AS, et al. **Exp Parasitol** 1996 Aug;83(3):283–94

Allelic variants of human TCR BV17S1 defined by restriction fragment length polymorphism, single strand conformation polymorphism, and amplification refractory mutation system analyses. Li Y, et al. **Hum Immunol** 1996 Sep 1; 49(2):85–95

N–Myc gene amplification is a major prognostic factor in localized neuroblastoma: results of the French NBL 90 study. Neuroblastoma Study Group of the Société Francaise d'Oncologie Pédiatrique. Rubie H, et al. **J Clin Oncol** 1997 Mar;15(3):1171–82

MYCN oncogene amplification in neuroblastoma is associated with worse prognosis, except in stage 4s: the Italian experience with 295 children. Tonini GP, et al. **J Clin Oncol** 1997 Jan;15(1):85–93

Immunohistochemical detection and gene amplification of cyclin D1 in mammary infiltrating ductal carcinoma. Frierson HF Jr, et al. **Mod Pathol** 1996 Jul;9(7):725–30 (38 ref.)

Developmental regulation of DNA replication: replication fork barriers and programmed gene amplification in Tetrahymena thermophila. Zhang Z, et al. **Mol Cell Biol** 1997 Oct;17(10):6147–56

The amplicons in HL60 cells contain novel cellular sequences linked to MYC locus DNA. Feo S, et al. **Oncogene** 1996 Oct 3;13(7):1521–9

Comparative genomic hybridisation of ductal carcinoma in situ of the breast: identification of regions of DNA amplification and deletion in common with invasive breast carcinoma. James LA, et al. **Oncogene** 1997 Mar 6; 14(9):1059–65

Overexpression and amplification of c–myc during progression of human colorectal cancer. Rochlitz CF, et al. **Oncology** 1996 Nov–Dec;53(6):448–54

Multiple mechanisms of N–phosphonacetyl–L–aspartate resistance in human cell lines: carbamyl–P synthetase/aspartate transcarbamylase/dihydro–orotase gene amplification is frequent only when chromosome 2 is rearranged. Smith KA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1816–21

A simple method for isolation of amplified copies of ribosomal DNA of Tetrahymena pyriformis by pulse–field gel electrophoresis. Mukha DV, et al. **Tsitol Genet** 1997 May–Jun;31(3):46–8

DNA ploidy and MYC DNA amplification in ovarian carcinomas. Correlation with p53 and bcl–2 expression, proliferative activity and prognosis. Diebold J, et al. **Virchows Arch** 1996 Nov;429(4–5):221–7

IMMUNOLOGY

Discrimination of HLA–B27 alleles by group–specific amplification followed by solid–phase sequencing. Blasczyk R, et al. **Hum Immunol** 1996 Feb;45(2):117–23

METHODS

DNA amplification methods for diagnosis and epidemiological investigations of avian mycoplasmosis. Kempf I. **Acta Vet Hung** 1997;45(3):373–86 (65 ref.)

Simultaneous strand displacement amplification and fluorescence polarization detection of Chlamydia trachomatis DNA. Spears PA, et al. **Anal Biochem** 1997 Apr 5;247(1):130–7

A nucleic acid sequence–based amplification system for detection of Listeria monocytogenes hlyA sequences. Blais BW, et al. **Appl Environ Microbiol** 1997 Jan;63(1):310–3

Ligase chain reaction. Lee HH. **Biologicals** 1996 Sep; 24(3):197–9 (6 ref.)

Simple method for selective amplification of cDNA from a defined promoter. Bostik P, et al. **Biotechniques** 1997 Feb; 22(2):300–2, 304, 306

Genomic alterations in human prostate carcinoma cell lines by two–dimensional gel analysis. Konishi N, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Dec;42(8):1129–35

Strand displacement amplification and fluorescence polarization [letter; comment] Seckinger D. **Clin Chem** 1996 Oct;42(10):1720. Comment on: Clin Chem 1996 Jan;42(1):7–8. Comment on: Clin Chem 1996 Jan;42(1):9–13.

Detection of Mycobacterium tuberculosis DNA with thermophilic strand displacement amplification and fluorescence polarization. Walker GT, et al. **Clin Chem** 1996 Oct;42(10):1604–8

Amplification methods in the molecular diagnosis of genetic diseases. Ben–Ezra JM. **Clin Lab Med** 1995 Dec; 15(4):795–815 (44 ref.)

NASBA: a novel, isothermal detection technology for qualitative and quantitative HIV–1 RNA measurements. Romano JW, et al. **Clin Lab Med** 1996 Mar;16(1):89–103 (25 ref.)

Comparative analysis of detection systems for evaluation of PCR amplified immunoglobulin heavy–chain gene rearrangements. Thunberg U, et al. **Diagn Mol Pathol** 1997 Jun;6(3):140–6

Molecular diagnosis of tuberculosis: current clinical validity and future perspectives. Roth A, et al. **Eur Respir J** 1997 Aug;10(8):1877–91 (107 ref.)

Expression of recombinant human granulocyte colony–stimulating factor in CHO dhfr– cells: new insights into the in vitro amplification expression system. Monaco L, et al. **Gene** 1996 Nov 21;180(1–2):145–50

A broad–host–range in vivo pop–out and amplification system for generating large quantities of 50– to 100–kb genomic fragments for direct DNA sequencing. Wild J, et al. **Gene** 1996 Nov 7;179(1):181–8

Critical assessment of gene amplification approaches on the diagnosis of tuberculosis. Forbes BA. **Immunol Invest** 1997 Jan–Feb;26(1–2):105–16 (44 ref.)

NASBA technology: isothermal RNA amplification in qualitative and quantitative diagnostics. Romano JW, et al. **Immunol Invest** 1997 Jan–Feb;26(1–2):15–28

Use of NASBA RNA amplification for detection of Mycobacterium leprae in skin biopsies from untreated and treated leprosy patients. van der Vliet GM, et al. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4):396–403

A rapid, useful and quantitative method to measure telomerase activity by hybridization protection assay connected with a telomeric repeat amplification protocol. Hirose M, et al. **J Cancer Res Clin Oncol** 1997; 123(6):337–44

Specificity of IS6110–based amplification assays for Mycobacterium tuberculosis complex [letter; comment] Gillespie SH, et al. **J Clin Microbiol** 1997 Mar; 35(3):799–801. Comment on: J Clin Microbiol 1996 Nov;34(11):2843–6.

Specificity of IS6110–based amplification assays for Mycobacterium tuberculosis complex [see comments] Hellyer TJ, et al. **J Clin Microbiol** 1996 Nov;34(11):2843–6 . Comment in: J Clin Microbiol 1997 Mar;35(3):799–801.

RNA amplification by nucleic acid sequence–based amplification with an internal standard enables reliable detection of Chlamydia trachomatis in cervical scrapings and urine samples. Morré SA, et al. **J Clin Microbiol** 1996 Dec;34(12):3108–14

Evaluation of the Gen–Probe Chlamydia trachomatis transcription–mediated amplification assay with urine specimens from women. Pasternack R, et al. **J Clin Microbiol** 1997 Mar;35(3):676–8

Detection of Mycobacterium tuberculosis directly from sputum by using a prototype automated Q–beta replicase assay. Smith JH, et al. **J Clin Microbiol** 1997 Jun; 35(6):1477–83

Performance of an automated Q–beta replicase amplification assay for Mycobacterium tuberculosis in a clinical trial. Smith JH, et al. **J Clin Microbiol** 1997 Jun;35(6):1484–91

Comparison of two automated DNA amplification systems with a manual one–tube nested PCR assay for diagnosis

of pulmonary tuberculosis. Yuen KY, et al. **J Clin Microbiol** 1997 Jun;35(6):1385–9

Serum HCV RNA levels assessed by quantitative NASBA: stability of viral load over time, and lack of correlation with liver disease. The Trent HCV Study Group. Hollingsworth RC, et al. **J Hepatol** 1996 Sep;25(3):301–6

Rapid direct determination of HLA–DQB1 * 0301 in the whole blood of normal individuals and cancer patients by specific polymerase chain reaction amplification. Lu M, et al. **J Immunol Methods** 1996 Nov 29;199(1):61–8

Amplification and subtraction methods and their application to the discovery of novel human viruses. Muerhoff AS, et al. **J Med Virol** 1997 Sep;53(1):96–103 (63 ref.)

Comparison of HCV RNA assays for the detection and quantification of hepatitis C virus RNA levels in serum of patients with chronic hepatitis C treated with interferon. Trabaud MA, et al. **J Med Virol** 1997 May;52(1):105–12

Reactivity and amplification efficiency of the NASBA HIV–1 RNA amplification system with regard to different HIV–1 subtypes. Gobbers E, et al. **J Virol Methods** 1997 Jul;66(2):293–301

Direct detection of potato leafroll virus in potato tubers by immunocapture and the isothermal nucleic acid amplification method NASBA. Leone G, et al. **J Virol Methods** 1997 Jun;66(1):19–27

Sensitivity of ligase chain reaction assay of urine from pregnant women for Chlamydia trachomatis [letter] [see comments] Jensen IP, et al. **Lancet** 1997 Feb 1; 349(9048):329–30. Comment in: Lancet 1997 Apr 5;349(9057):1024; discussion 1025. Comment in: Lancet 1997 Apr 5;349(9057):1024–5.

Rapid amplification of cDNA ends (RACE) improves the PCR–based isolation of immunoglobulin variable region genes from murine and human lymphoma cells and cell lines. Doenecke A, et al. **Leukemia** 1997 Oct;11(10):1787–92

Rapid amplification of gene ends (RAGE) from gene libraries by anchored PCR. Huang SH, et al. **Methods Mol Biol** 1997;67:295–300

Detection of M. tuberculosis DNA using thermophilic strand displacement amplification. Spargo CA, et al. **Mol Cell Probes** 1996 Aug;10(4):247–56

Homology of AFLP products in three mapping populations of barley. Waugh R, et al. **Mol Gen Genet** 1997 Jul; 255(3):311–21

A quick fix using random DNA amplification [news; comment] Haselkorn R. **Nat Biotechnol** 1997 Jun;15(6):511 . Comment on: Nat Biotechnol 1997 Jun;15(6):564–9.

Molecular basis of artifacts in the detection of telomerase activity and a modified primer for a more robust 'TRAP' assay. Krupp G, et al. **Nucleic Acids Res** 1997 Feb 15; 25(4):919–21

Buffer components tailor DNA amplification with arbitrary primers. Caetano–Anollés G, et al. **PCR Methods Appl** 1994 Aug;4(1):59–61

Detection of HIV–1 RNA by nucleic acid sequence–based amplification combined with fluorescence correlation spectroscopy. Oehlenschläger F, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12811–6

Urine as a diagnostic specimen for the detection of Chlamydia trachomatis in Malaysia by ligase chain reaction. Gaydos CA, et al. **Sex Transm Dis** 1996 Sep–Oct;23(5):402–6

Detection of Chlamydia trachomatis by a ligase chain reaction amplification method. Rumpianesi F, et al. **Sex Transm Dis** 1996 May–Jun;23(3):177–80

Comparison of DNA amplification methods for the detection of Chlamydia trachomatis in first–void urine from asymptomatic military recruits. Stary A, et al. **Sex Transm Dis** 1996 Mar–Apr;23(2):97–102

Qualitative and quantitative NASBA for detection of human immunodeficiency virus type 1 and hepatitis C virus infection. Sillekens PT. **Transplant Proc** 1996 Oct; 28(5):2941–4

Simple modifications to increase specificity of the 5' RACE procedure. Chen Z. **Trends Genet** 1996 Mar;12(3):87–8

[Value of nucleic acid amplification methods Amplicor (Roche) and Amplified MTD (Gen–Probe) for the rapid diagnosis of tuberculosis] Dailloux M, et al. **Ann Biol Clin (Paris)** 1996;54(7):297–301 (Eng. Abstr.) **(Fre)**

[Evaluation of a new detection method of Mycobacterium tuberculosis in clinical specimens by amplification of ribosomal RNA and its clinical application] Osumi M, et al. **Kekkaku** 1996 Oct;71(10):573–85 (Eng. Abstr.) **(Jpn)**

[Molecular diagnostics: sequence or signal amplification?] Słomski R, et al. **Postepy Biochem** 1995;41(4):220–9 (17 ref.) **(Pol)**

PHYSIOLOGY

FISH detection of HER–2/neu oncogene amplification in early onset breast cancer. Xing WR, et al. **Breast Cancer Res Treat** 1996;39(2):203–12

Ribosomal gene amplification in the oocytes of Creophilus maxillosus (Staphylinidae, Coleoptera–polyphaga)—an insect with telotrophic ovaries. Kloc M, et al. **Folia Histochem Cytobiol** 1995;33(4):267–76

Demonstration of human papillomavirus (HPV) genomic amplification and viral–like particles from CaSki cell line in SCID mice. Wu TC, et al. **J Virol Methods** 1997 May; 65(2):287–98

GENE BANK see **GENE LIBRARY**

GENE CLUSTERS see **MULTIGENE FAMILY**

GENE CONVERSION

When is a deletion not a deletion? When it is converted [editorial] Burghes AH. **Am J Hum Genet** 1997 Jul; 61(1):9–15 (49 ref.)

Genomic variation and gene conversion in spinal muscular atrophy: implications for disease process and clinical phenotype. Campbell L, et al. **Am J Hum Genet** 1997 Jul; 61(1):40–50

Apparent gene conversions involving the SMN gene in the region of the spinal muscular atrophy locus on chromosome 5. van der Steege G, et al. **Am J Hum Genet** 1996 Oct; 59(4):834–8

Revertant mosaicism in epidermolysis bullosa caused by mitotic gene conversion. Jonkman MF, et al. **Cell** 1997 Feb 21;88(4):543–51

Optional elements in the chloroplast DNAs of chlamydomonas eugametos and C. moewusii: unidirectional gene conversion and co–conversion of adjacent markers in high–viability crossses. Bussières J, et al. **Curr Genet** 1996 Sep;30(4):356–65

The estimation of the number and the length distribution of gene conversion tracts from population DNA sequence data. Betrán E, et al. **Genetics** 1997 May;146(1):89–99

A test of the double–strand break repair model for meiotic recombination in Saccharomyces cerevisiae. Gilbertson LA, et al. **Genetics** 1996 Sep;144(1):27–41

Recombination and gene flux caused by gene conversion and crossing over in inversion heterokaryotypes. Navarro A, et al. **Genetics** 1997 Jun;146(2):695–709

P–element–induced male recombination and gene conversion in Drosophila. Preston CR, et al. **Genetics** 1996 Dec; 144(4):1611–22

Evidence for gene conversion in the generation of extensive polymorphism in the promoter of the growth hormone gene. Giordano M, et al. **Hum Genet** 1997 Aug; 100(2):249–55

Gene conversion contributes to Ig light chain diversity in cattle. Parng CL, et al. **J Immunol** 1996 Dec 15; 157(12):5478–86

Evidence for gene conversion between tandemly duplicated cytoplasmic actin genes of Helicoverpa armigera (Lepidoptera:Noctuidae). Rourke IJ, et al. **J Mol Evol** 1997 Feb;44(2):169–77

Gene conversions mediating antigenic variation in Trypanosoma brucei can occur in variant surface glycoprotein expression sites lacking 70–base–pair repeat sequences. McCulloch R, et al. **Mol Cell Biol** 1997 Feb; 17(2):833–43

Gene conversion at the SMN locus in autosomal recessive spinal muscular atrophy does not predict a mild phenotype. Talbot K, et al. **Neuromuscul Disord** 1997 May;7(3):198–201

Recombinant DNA technique and sickle cell anemia research [letter; comment] Thomas KR, et al. **Science** 1997 Mar 7; 275(5305):1404–5. Comment on: Science 1996 Sep 6;273(5280):1386–9.

[Dynamics of pathogenic genes of bacteria: horizontal gene transfer and and gene conversion] Nakayama K. **Fukuoka Igaku Zasshi** 1996 Aug;87(8):173–7 (4 ref.) **(Jpn)**

DRUG EFFECTS

The photomutagenicity of fluoroquinolones in tests for gene mutation, chromosomal aberration, gene conversion and DNA breakage (Comet assay). Chételat AA, et al. **Mutagenesis** 1996 Sep;11(5):497–504

IMMUNOLOGY

Novel HLA–B35 subtypes: putative gene conversion events with donor sequences from alleles common in native Americans (HLA–B*4002 or B*4801). Marcos CY, et al. **Hum Immunol** 1997 Apr 1;53(2):148–55

GENE COPY NUMBER see **GENE DOSAGE**

GENE DELETION

A novel (delta beta)(0)–thalassemia due to a approximately 30–kb deletion observed in a Turkish family. Oner R, et al. **Acta Haematol** 1996;96(4):232–6

Homozygous deletions of the CDKN2/p16 gene in dural hemangiopericytomas. Ono Y, et al. **Acta Neuropathol (Berl)** 1996;91(3):221–5

Molecular genetic alterations in pleomorphic xanthoastrocytoma. Paulus W, et al. **Acta Neuropathol (Berl)** 1996;91(3):293–7

Tuberous sclerosis–like lesions in epileptogenic human neocortex lack allelic loss at the TSC1 and TSC2 regions. Wolf HK, et al. **Acta Neuropathol (Berl)** 1997 Jan;93(1):93–6

Roles of the N– and C– terminal pro–sequences of aqualysin I precursor in the processing and extracellular secretion of the enzyme. Lee YC, et al. **Adv Exp Med Biol** 1996; 379:155–7

Presence of a DNA–4236 bp deletion and 8–hydroxy–deoxyguanosine in mouse cardiac mitochondrial DNA during aging. Muscari C, et al. **Aging (Milano)** 1996 Dec;8(6):429–33

Heterozygosity for a deletion in the CKR–5 gene leads to prolonged AIDS–free survival and slower CD4 T–cell decline in a cohort of HIV–seropositive individuals. Eugen–Olsen J, et al. **AIDS** 1997 Mar;11(3):305–10

Replication in goats in vivo of caprine arthritis–encephalitis virus deleted in vif or tat genes: possible use of these deletion mutants as live vaccines. Harmache A, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):409–11 (9 ref.)

Frequency of deletional alpha–thalassemia genotypes in a predominantly Asian–American population. Hofgärtner WT, et al. **Am J Clin Pathol** 1997 May;107(5):576–81

Factor XIII(A) subunit deficiency due to a homozygous 13–base pair deletion in exon 3 of the A subunit gene. Aslam S, et al. **Am J Hematol** 1996 Oct;53(2):77–80

When is a deletion not a deletion? When it is converted [editorial] Burghes AH. **Am J Hum Genet** 1997 Jul; 61(1):9–15 (49 ref.)

The gene encoding p44, a subunit of the transcription factor TFIIH, is involved in large–scale deletions associated with Werdnig–Hoffmann disease. Bürglen L, et al. **Am J Hum Genet** 1997 Jan;60(1):72–9

Inter– and intrachromosomal rearrangements are both involved in the origin of 15q11–q13 deletions in Prader–Willi syndrome [letter] Carrozzo R, et al. **Am J Hum Genet** 1997 Jul;61(1):228–31

A submicroscopic deletion in Xq26 associated with familial situs ambiguus. Ferrero GB, et al. **Am J Hum Genet** 1997 Aug;61(2):395–401

Simultaneous, multilocus FISH analysis for detection of microdeletions in the diagnostic evaluation of developmental delay and mental retardation [see comments] Ligon AH, et al. **Am J Hum Genet** 1997 Jul; 61(1):51–9. Comment in: Am J Hum Genet 1997 Jul;61(1):16–7.

Hemizygous deletion of the syntaxin 1A gene in individuals with Williams syndrome [letter] Osborne LR, et al. **Am J Hum Genet** 1997 Aug;61(2):449–52

Familial skewed X inactivation: a molecular trait associated with high spontaneous–abortion rate maps to Xq28. Pegoraro E, et al. **Am J Hum Genet** 1997 Jul;61(1):160–70

Molecular definition of the chromosome 7 deletion in Williams syndrome and parent–of–origin effects on growth. Pérez Jurado LA, et al. **Am J Hum Genet** 1996 Oct; 59(4):781–92

Analysis of genetic linkage and somatic loss of heterozygosity in affected pairs of first–degree relatives. Rohde K, et al. **Am J Hum Genet** 1997 Aug;61(2):418–22 (13 ref.)

The mutation rate of the human mtDNA deletion mtDNA4977 [see comments] Shenkar R, et al. **Am J Hum Genet** 1996 Oct;59(4):772–80. Comment in: Am J Hum Genet 1996 Oct;59(4):749–55.

Widening of a Y–chromosome interval–6 deletion transmitted from a father to his infertile son accounts for an oligozoospermia critical region distal to the RBM1 and DAZ genes [letter] Stuppia L, et al. **Am J Hum Genet** 1996 Dec;59(6):1393–5

7q11.23 deletions in Williams syndrome arise as a consequence of unequal meiotic crossover [letter] Urbán Z, et al. **Am J Hum Genet** 1996 Oct;59(4):958–62

The glutathione S–transferase theta and mu deletion polymorphisms in asbestosis. Kelsey KT, et al. **Am J Ind Med** 1997 Mar;31(3):274–9

Deletion of PTEN in a patient with Bannayan–Riley–Ruvalcaba syndrome suggests allelism with Cowden disease. Arch EM, et al. **Am J Med Genet** 1997 Sep 5;71(4):489–93

Patient with an Xp21 contiguous gene deletion syndrome in association with agenesis of the corpus callosum. Baranzini SE, et al. **Am J Med Genet** 1997 Jun 13; 70(3):216–21

Pitt–Rogers–Danks syndrome: the result of a 4p microdeletion. Clemens M, et al. **Am J Med Genet** 1996 Dec 2;66(1):95–100

Pattern of deletions of the dystrophin gene in Mexican Duchenne/Becker muscular dystrophy patients: the use of new designed primers for the analysis of the major deletion "hot spot" region. Coral–Vazquez R, et al. **Am J Med Genet** 1997 Jun 13;70(3):240–6

Pitt–Rogers–Danks syndrome and Wolf–Hirschhorn syndrome [editorial] Donnai D. **Am J Med Genet** 1996 Dec 2;66(1):101–3

Prune–belly syndrome and other anomalies in a stillborn fetus with a ring X chromosome lacking XIST. Guillén DR, et al. **Am J Med Genet** 1997 May 2;70(1):32–6

Unbalanced 15;22 translocation in a patient with manifestations of DiGeorge and velocardiofacial syndrome. Jaquez M, et al. **Am J Med Genet** 1997 May 2;70(1):6–10

Paracentric inversion involving the long arm of chromosome 9 resulting in deletion of abl gene. Kleyman SM, et al. **Am J Med Genet** 1997 Feb 11;68(4):409–11

Cytogenetic abnormalities in two new patients with Pitt–Rogers–Danks phenotype. Lindeman–Kusse MC, et al. **Am J Med Genet** 1996 Dec 2;66(1):104–12

Mental retardation in a boy with an interstitial deletion at Xp22.3 involving STS, KAL1, and OA1: implication for the MRX locus. Muroya K, et al. **Am J Med Genet** 1996 Sep 6;64(4):583–7

Interstitial deletion of 11(p11.2p12): a newly described contiguous gene deletion syndrome involving the gene for hereditary multiple exostoses (EXT2). Potocki L, et al. **Am J Med Genet** 1996 Mar 29;62(3):319–25 (24 ref.)

Loss of the N–myc oncogene in a patient with a small interstitial deletion of the short arm of chromosome 2. Saal

HM, et al. **Am J Med Genet** 1996 Dec 30;66(4):373–7 (17 ref.)

Diagnosis of CMT1A duplications and HNPP deletions by interphase FISH: implications for testing in the cytogenetics laboratory. Shaffer LG, et al. **Am J Med Genet** 1997 Mar 31;69(3):325–31

SMN(T) and NAIP mutations in Canadian families with spinal muscular atrophy (SMA): genotype/phenotype correlations with disease severity. Simard LR, et al. **Am J Med Genet** 1997 Oct 3;72(1):51–8

Hypopigmentation in the Prader–Willi syndrome correlates with P gene deletion but not with haplotype of the hemizygous P allele. Spritz RA, et al. **Am J Med Genet** 1997 Jul 11;71(1):57–62

Deletion of the entire NF1 gene causing distinct manifestations in a family. Wu BL, et al. **Am J Med Genet** 1997 Mar 3;69(1):98–101

From Pitt–Rogers–Danks syndrome to Wolf–Hirschhorn syndrome and back? Zollino M, et al. **Am J Med Genet** 1996 Dec 2;66(1):113–5

The structural basis of molecular genetic deletions. An integration of classical cytogenetic and molecular analyses in pancreatic adenocarcinoma. Brat DJ, et al. **Am J Pathol** 1997 Feb;150(2):383–91

Gains, losses, and amplifications of DNA sequences evaluated by comparative genomic hybridization in chondrosarcomas. Larramendy ML, et al. **Am J Pathol** 1997 Feb;150(2):685–91

Complete nucleotide sequence of the genome of Japanese encephalitis virus ling strain: the presence of a 25–nucleotide deletion in the 3'-nontranslated region. Jan LR, et al. **Am J Trop Med Hyg** 1996 Dec;55(6):603–9

Field trial to evaluate the immunogenicity of pseudorabies virus vaccines with deletions for glycoproteins G and E. Firkins LD, et al. **Am J Vet Res** 1997 Sep;58(9):976–84

Extensive DNA deletion associated with severe disease alleles on spinal muscular atrophy homologues. Wang CH, et al. **Ann Neurol** 1997 Jul;42(1):41–9

Absence of p16 gene (CDKN2) deletions in microdissected primary breast carcinoma specimens. Calvano JE, et al. **Ann Surg Oncol** 1997 Jul–Aug;4(5):416–20

Multiple genetic lesions in solid tumors: relevance to diagnosis, prognosis, and molecular mechanisms. Reale GC, et al. **Anticancer Res** 1996 Sep–Oct;16(5A):2943–53

Enhanced oxidative killing of azole-resistant Candida glabrata strains with ERG11 deletion. Kan VL, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1717–9

A recombinase-mediated system for elimination of antibiotic resistance gene markers from genetically engineered Bacillus thuringiensis strains. Sanchis V, et al. **Appl Environ Microbiol** 1997 Feb;63(2):779–84

Pearson's syndrome without marrow involvement. Morris AA, et al. **Arch Dis Child** 1997 Jul;77(1):56–7

Genetic manipulation of Vibrio cholerae for vaccine development: construction of live attenuated El Tor candidate vaccine strains. Benítez JA, et al. **Arch Med Res** 1996 Autumn;27(3):275–83

Chronic myelocytic leukemia in accelerated phase with i(17)(q10) and loss of p53 gene. Case report. Salles MT, et al. **Arch Med Res** 1997 Summer;28(2):293–6

Deletion analysis of the p16/CDKN2 gene in head and neck squamous cell carcinoma using quantitative polymerase chain reaction method. Rawnsley JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):863–7

Subjects with ApoA-I(Lys107–>0) exhibit enhanced fractional catabolic rate of ApoA-I in Lp(AI) and ApoA-II in Lp(AI with AII). Tilly-Kiesi M, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):873–80

The association between free fatty acid concentrations and triglyceride-rich lipoproteins in the post-prandial state is altered by a common deletion polymorphism of the apo B signal peptide. Byrne CD, et al. **Atherosclerosis** 1996 Nov 15;127(1):35–42

The effects of the apolipoprotein B signal peptide (ins/del) and XbaI polymorphisms on plasma lipid responses to dietary change. Pajukanta PE, et al. **Atherosclerosis** 1996 Apr 26;122(1):1–10

The frequency of homozygous deletion of a developmentally regulated Vh gene (Humhv3005) is increased in patients with chronic idiopathic thrombocytopenic purpura. Mo L, et al. **Autoimmunity** 1996;24(4):257–63

Deletion of the nuclear gene encoding the mitochondrial citrate transport protein from Saccharomyces cerevisiae. Kaplan RS, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):657–62

Functional domains of Escherichia coli single-stranded DNA binding protein as assessed by analyses of the deletion mutants. Kinebuchi T, et al. **Biochemistry** 1997 Jun 3; 36(22):6732–8

Two COOH-terminal truncated cytoplasmic forms of topoisomerase II alpha in a VP-16-selected lung cancer cell line result from partial gene deletion and alternative splicing. Yu Q, et al. **Biochemistry** 1997 May 13; 36(19):5868–77

Developmentally programmed DNA rearrangement in Tetrahymena thermophila: isolation and sequence characterization of three new alternative deletion systems. Chau MF, et al. **Biol Cell** 1996;86(2-3):111–20

Allelotype analysis in mouse hepatocellular carcinomas; frequent homozygous deletion of mouse homolog of p16/CDKN2 gene on chromosome 4 in culture. Miyasaka K, et al. **Biol Pharm Bull** 1996 May;19(5):683–91

Homozygous deletion of mouse homolog of p16/CDKN2 gene on chromosome 4 in mouse liver epithelial cells in culture. Miyasaka K, et al. **Biol Pharm Bull** 1996 Mar; 19(3):345–9

Molecular analysis of Rh transcripts and polypeptides from individuals expressing the DVI variant phenotype: an RHD gene deletion event does not generate All DVIccEe phenotypes. Avent ND, et al. **Blood** 1997 Mar 1; 89(5):1779–86

Molecular cytogenetic delineation of deletions and translocations involving chromosome band 7q22 in myeloid leukemias. Fischer K, et al. **Blood** 1997 Mar 15; 89(6):2036–41

Hereditary hyperferritinemia–cataract syndrome caused by a 29–base pair deletion in the iron responsive element of ferritin L-subunit gene. Girelli D, et al. **Blood** 1997 Sep 1;90(5):2084–8

Mice bearing a targeted interruption of the homeobox gene HOXA9 have defects in myeloid, erythroid, and lymphoid hematopoiesis. Lawrence HJ, et al. **Blood** 1997 Mar 15; 89(6):1922–30

Deletions and loss of expression of p16INK4a and p21Waf1 genes are associated with aggressive variants of mantle cell lymphomas. Pinyol M, et al. **Blood** 1997 Jan 1;89(1):272–80

Effect of deletion polymorphism of angiotensin converting enzyme gene on progression of diabetic nephropathy [letter; comment] Marre M, et al. **BMJ** 1996 Dec 14; 313(7071):1554–5. Comment on: BMJ 1996 Sep 7;313(7057):591–4.

Fractional allele loss data indicate distinct genetic populations in the development of non–small-cell lung cancer. Field JK, et al. **Br J Cancer** 1996 Dec;74(12):1968–74

Allele loss from large regions of chromosome 17 is common only in certain histological subtypes of ovarian carcinomas. Papp J, et al. **Br J Cancer** 1996 Nov;74(10):1592–7

Small-cell lung cancer is characterized by a high incidence of deletions on chromosomes 3p, 4q, 5q, 10q, 13q and 17p. Petersen I, et al. **Br J Cancer** 1997;75(1):79–86

Evidence of gene deletion of p21 (WAF1/CIP1), a cyclin-dependent protein kinase inhibitor, in thyroid carcinomas. Shi Y, et al. **Br J Cancer** 1996 Nov; 74(9):1336–41

An increased NM23H1 copy number may be a poor prognostic factor independent of LOH on 1p in neuroblastomas. Takeda O, et al. **Br J Cancer** 1996 Nov; 74(10):1620–6

Allele loss occurs frequently at hMLH1, but rarely at hMSH2, in sporadic colorectal cancers with microsatellite instability. Tomlinson IP, et al. **Br J Cancer** 1996 Nov; 74(10):1514–7

Allelic loss at chromosome 13q12–q13 is associated with poor prognosis in familial and sporadic breast cancer. van den Berg J, et al. **Br J Cancer** 1996 Nov;74(10):1615–9

Atypical HbH disease in a Surinamese patient resulting from a combination of the –SEA and –alpha 3.7 deletions with HbC heterozygosity. Giordano PC, et al. **Br J Haematol** 1997 Mar;96(4):801–5

Inverse correlation between loss of heterozygosity of the short arm of chromosome 12 and p15ink4B/p16ink4 gene inactivation in childhood acute lymphoblastic leukaemia. Heyman M, et al. **Br J Haematol** 1997 Jul;98(1):147–50

Lack of clonal BCRA2 gene deletion on chromosome 13 in chronic lymphocytic leukaemia. Panayiotidis P, et al. **Br J Haematol** 1997 Jun;97(4):844–7

Microsatellite instability and loss of heterozygosity in human pterygia. Spandidos DA, et al. **Br J Ophthalmol** 1997 Jun; 81(6):493–6

Association of EGFR gene amplification and CDKN2 (p16/MTS1) gene deletion in glioblastoma multiforme. Hayashi Y, et al. **Brain Pathol** 1997 Jul;7(3):871–5

Molecular analysis of CYP21 and C4 genes in Brazilian families with the classical form of steroid 21-hydroxylase deficiency. de-Araujo M, et al. **Braz J Med Biol Res** 1996 Jan;29(1):1–13 (37 ref.)

The significance of allelic deletions and aneuploidy in colorectal carcinoma. Results of a 5-year follow-up study. Cohn KH, et al. **Cancer** 1997 Jan 15;79(2):233–44

Detection of numeric abnormalities of chromosome 17 and p53 deletions by fluorescence in situ hybridization in pleomorphic adenomas and carcinomas in pleomorphic adenoma. Correlation with p53 expression. Li X, et al. **Cancer** 1997 Jun 15;79(12):2314–9

Two distinct commonly deleted regions on chromosome 13q suggest involvement of BRCA2 and retinoblastoma genes in sporadic breast carcinomas. Tsukamoto K, et al. **Cancer** 1996 Nov 1;78(9):1929–34

Congenital hypertrophy of the retinal pigment epithelium in familial adenomatous polyposis. Novel criteria of assessment and correlations with constitutional adenomatous polyposis coli gene mutations. Valanzano R, et al. **Cancer** 1996 Dec 1;78(11):2400–10

Polymorphisms in the glutathione S-transferase class mu and theta genes interact and increase susceptibility to lung cancer in minority populations (Texas, United States). Kelsey KT, et al. **Cancer Causes Control** 1997 Jul;8(4):554–9

Monoallelic p53 deletion in chronic lymphocytic leukemia detected by interphase cytogenetics. Amiel A, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):97–100

Trisomy 12 and p53 deletion in chronic lymphocytic leukemia detected by fluorescence in situ hybridization: association with morphology and resistance to conventional chemotherapy. Cano I, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):118–24

Deletion of exon b3 of the BCR gene in CML: easy breakpoint mapping by a two-round PCR. Cigudosa JC, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):71–3

Allele loss in colorectal cancer at the Cowden disease/juvenile polyposis locus on 10q. Frayling IM, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):64–9

p53 loss and point mutations are associated with suppression of apoptosis and progression of CML into myeloid blastic crisis. Stuppia L, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):28–35

5q-, twenty-five years later: a synopsis. Van den Berghe H, et al. **Cancer Genet Cytogenet** 1997 Mar;94(1):1–7 (37 ref.)

A multiplex PCR procedure for polymorphic analysis of GSTM1 and GSTT1 genes in population studies. Abdel-Rahman SZ, et al. **Cancer Lett** 1996 Oct 22; 107(2):229–33

Molecular analysis of the secretory phospholipase A2 gene, a candidate of Mom1 gene, in neuroblastomas. Kawamata N, et al. **Cancer Lett** 1997 Jan 1;111(1–2):71–5

Induction of invasive squamous cell carcinomas in the forestomach of (C3H x MSM)F1, MSM, and C3H mice by N-methyl-N-nitrosourea and mutational analysis of the H-ras and p53 genes. Masui T, et al. **Cancer Lett** 1997 Jan 1;111(1–2):97–104

Frequent loss of heterozygosity of chromosome 3 short arm detected by PCR-based microsatellite polymorphisms in cervical squamous cell carcinoma. Wong YF, et al. **Cancer Lett** 1997 May 19;115(2):161–4

Analysis of the FHIT gene and FRA3B region in sporadic breast cancer, preneoplastic lesions, and familial breast cancer probands. Ahmadian M, et al. **Cancer Res** 1997 Sep 1;57(17):3664–8

Concerted nonsyntenic allelic losses in hyperploid hepatocellular carcinoma as determined by a high-resolution allelotype. Boige V, et al. **Cancer Res** 1997 May 15;57(10):1986–90

Loss of heterozygosity at 16q24.1–q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer. Elo JP, et al. **Cancer Res** 1997 Aug 15; 57(16):3356–9

Localization of the multiple endocrine neoplasia type I (MEN1) gene based on tumor loss of heterozygosity analysis. Emmert-Buck MR, et al. **Cancer Res** 1997 May 15;57(10):1855–8

Loss of the p16INK4a and p15INK4b genes, as well as neighboring 9p21 markers, in sporadic melanoma. Flores JF, et al. **Cancer Res** 1996 Nov 1;56(21):5023–32

Genetic progression, histological grade, and allelic loss in ductal carcinoma in situ of the breast. Fujii H, et al. **Cancer Res** 1996 Nov 15;56(22):5260–5

FHIT mutations in human primary gastric cancer. Gemma A, et al. **Cancer Res** 1997 Apr 15;57(8):1435–7

Disruption of the MMAC1/PTEN gene by deletion or mutation is a frequent event in malignant melanoma. Guldberg P, et al. **Cancer Res** 1997 Sep 1;57(17):3660–3

High frequency in vivo loss of heterozygosity is primarily a consequence of mitotic recombination. Gupta PK, et al. **Cancer Res** 1997 Mar 15;57(6):1188–93

Functional evidence for a colorectal cancer tumor suppressor gene at chromosome 8p22–23 by monochromosome transfer. Gustafson CE, et al. **Cancer Res** 1996 Nov 15; 56(22):5238–45

Deletion within the D17S34 locus in a primitive neuroectodermal tumor. Haataja L, et al. **Cancer Res** 1997 Jan 1;57(1):32–4

Somatic mutations of the von Hippel-Lindau tumor suppressor gene and loss of heterozygosity on chromosome 3p in human glial tumors. Kanno H, et al. **Cancer Res** 1997 Mar 15;57(6):1035–8

Localization of a novel tumor suppressor locus on human chromosome 3q important in osteosarcoma tumorigenesis. Kruzelock RP, et al. **Cancer Res** 1997 Jan 1;57(1):106–9

Allelic deletions on chromosome 11q13 in multiple tumors from individual MEN1 patients. Lubensky IA, et al. **Cancer Res** 1996 Nov 15;56(22):5272–8

High levels of allele loss at the FHIT and ATM genes in non-comedo ductal carcinoma in situ and grade I tubular invasive breast cancers. Man S, et al. **Cancer Res** 1996 Dec 1;56(23):5484–9

Frequent abnormalities of FHIT, a candidate tumor suppressor gene, in head and neck cancer cell lines. Mao L, et al. **Cancer Res** 1996 Nov 15;56(22):5128–31

Loss of p53 is an early event in induction of brain tumors in mice by transplacental carcinogen exposure. Oda H, et al. **Cancer Res** 1997 Feb 15;57(4):646–50

The FHIT and PTPRG genes are deleted in benign proliferative breast disease associated with familial breast cancer and cytogenetic rearrangements of chromosome band 3p14. Panagopoulos I, et al. **Cancer Res** 1996 Nov 1;56(21):4871–5

Reduced expression of the cyclin-dependent kinase inhibitor gene p57KIP2 in Wilms' tumor. Thompson JS, et al. **Cancer Res** 1996 Dec 15;56(24):5723–7

Somatic in vivo alterations of the JV18-1 gene at 18q21 in human lung cancers. Uchida K, et al. **Cancer Res** 1996 Dec 15;56(24):5583–5

Deletion and differential expression of p16INK4a in mouse lung tumors. Belinsky SA, et al. **Carcinogenesis** 1997 Jan; 18(1):115–20

Population-based study of glutathione S-transferase mu gene deletion in adult glioma cases and controls. Wiencke JK,

et al. **Carcinogenesis** 1997 Jul;18(7):1431–3

Association of a deletion polymorphism of the angiotensin–converting enzyme gene with left–ventricular hypertrophy in Japanese women with essential hypertension; multicenter study of 1,919 subjects. Kimura M, et al. **Cardiology** 1997 Jul–Aug;88(4):309–14

Specific mitochondrial DNA deletions in idiopathic dilated cardiomyopathy. Marin–Garcia J, et al. **Cardiovasc Res** 1996 Feb;31(2):306–13

Plant profilins rescue the aberrant phenotype of profilin–deficient Dictyostelium cells. Karakesisoglou I, et al. **Cell Motil Cytoskeleton** 1996;34(1):36–47

P53 gene abnormalities in osteosarcoma. Guo W, et al. **Chin Med J (Engl)** 1996 Oct;109(10):752–5

ACE*D and cardiovascular disease [letter; comment] Winkelmann BR, et al. **Circulation** 1997 Aug 5;96(3):1050–2 . Comment on: Circulation 1996 Aug 1;94(3):236–9.

Analysis of the deletion/insertion polymorphism of the angiotensin I–converting enzyme gene by capillary electrophoresis. Koch M, et al. **Clin Chim Acta** 1996 Apr 30;248(2):197–203

Diagnosis of a deletion of steroid sulfatase by polymerase chain reaction and high–performance liquid chromatography. Sugawara T, et al. **Clin Chim Acta** 1997 Jul 4;263(1):25–32

Loss of heterozygosity studies at the retinoblastoma and breast cancer susceptibility (BRCA2) loci in pituitary, parathyroid, pancreatic and carcinoid tumours. Pearce SH, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):195–200

Deletion polymorphism in the angiotensin–converting enzyme gene is not associated with hypertension in a Gulf Arab population. Frossard PM, et al. **Clin Genet** 1997 Mar; 51(3):211–3

On two patients with and without the classical Wolf–Hirschhorn syndrome (WHS) sharing the same chromosome 4p16.3 specific probe deletion: evidence of a contiguous gene deletion syndrome. Petit P, et al. **Clin Genet** 1996 Jul;50(1):19–22

Deletion or triplication of the alpha 3 (VI) collagen gene in three patients with 2q37 chromosome aberrations and symptoms of collagen–related disorders. Rauch A, et al. **Clin Genet** 1996 Jun;49(6):279–85

Functions of TCR and pre–TCR subunits: lessons from gene ablation. Malissen B, et al. **Curr Opin Immunol** 1996 Jun; 8(3):383–93 (69 ref.)

Elastin gene deletions in Williams syndrome. Smoot LB. **Curr Opin Pediatr** 1995 Dec;7(6):698–701 (21 ref.)

Complex chromosomal mechanisms lead to APRT loss of heterozygosity in heteroploid cells. Shao C, et al. **Cytogenet Cell Genet** 1996;75(4):216–21

The ETV6, CDKN1B and D12S178 loci are involved in a segment commonly deleted in various 12p aberration in different hematological malignancies. Wlodarska I, et al. **Cytogenet Cell Genet** 1996;72(2–3):229–35

Cancer proneness of linear porokeratosis may be explained by allelic loss. Happle R. **Dermatology** 1997;195(1):20–5 (73 ref.)

Platelet–activating factor acetylhydrolase expression and activity suggest a link between neuronal migration and platelet–activating factor. Albrecht U, et al. **Dev Biol** 1996 Dec 15;180(2):579–93

Identification of a male meiosis–specific gene, Tcte2, which is differentially spliced in species that form sterile hybrids with laboratory mice and deleted in t chromosomes showing meiotic drive. Braidotti G, et al. **Dev Biol** 1997 Jun 1;186(1):85–99

Age–associated mitochondrial DNA deletions in mouse skeletal muscle: comparison of different regions of the mitochondrial genome. Eimon PM, et al. **Dev Genet** 1996; 18(2):107–13

Deficient cytokine signaling in mouse embryo fibroblasts with a targeted deletion in the PKR gene: role of IRF–1 and NF–kappaB. Kumar A, et al. **EMBO J** 1997 Jan 15; 16(2):406–16

Activity of 5'–deletion mutants of the human CYP11B1 promoter in H295R cells. Lenz D, et al. **Endocr Res** 1996 Nov;22(4):501–2

Programmed cell death of chondrocytes and aberrant chondrogenesis in mice homozygous for parathyroid hormone–related peptide gene deletion. Amizuka N, et al. **Endocrinology** 1996 Nov;137(11):5055–67

Deletion of the thyroid hormone beta1 receptor increases basal and triiodothyronine–induced growth hormone messenger ribonucleic acid in GH3 cells. Ball SG, et al. **Endocrinology** 1997 Aug;138(8):3125–32

The 5'–flanking region of the ovarian promoter of the bovine CYP19 gene contains a deletion in a cyclic adenosine 3',5'–monophosphate–like responsive sequence. Hinshelwood MM, et al. **Endocrinology** 1997 Sep; 138(9):3704–10

Elective mutism and chromosome 18 abnormality. Simons D, et al. **Eur Child Adolesc Psychiatry** 1997 Jun;6(2):112–4

The deletion polymorphism of the angiotensin–converting enzyme gene is related to phenotypic differences in human arteries. Buikema H, et al. **Eur Heart J** 1996 May; 17(5):787–94

Deletion of the heptosyltransferase genes rfaC and rfaF in Escherichia coli K–12 results in an Re–type lipopolysaccharide with a high degree of 2–aminoethanol phosphate substitution. Brabetz W, et al. **Eur J Biochem** 1997 Jul 15;247(2):716–24

Fast amplification of the low density lipoprotein receptor gene and detection of a large deletion by means of long polymerase chain reaction. Bochmann H, et al. **Eur J Clin Chem Clin Biochem** 1996 Dec;34(12):955–9

Analysis of vasopressin receptor type II (V2R) gene in three Japanese pedigrees with congenital nephrogenic diabetes insipidus: identification of a family with complete deletion of the V2R gene. Jinnouchi H, et al. **Eur J Endocrinol** 1996 Jun;134(6):689–98

In–frame exon 2 deletion in insulin receptor RNA in a family with extreme insulin resistance in association with defective insulin binding: a case report. Moritz W, et al. **Eur J Endocrinol** 1996 Sep;135(3):357–63

Mice heterozygous for a deletion of the tumor necrosis factor–alpha and lymphotoxin–alpha genes: biological importance of a nonlinear response of tumor necrosis factor–alpha to gene dosage. Amiot F, et al. **Eur J Immunol** 1997 Apr;27(4):1035–42

Severe feeding problems and congenital laryngostenosis in a patient with 3q23 deletion. Chandler KE, et al. **Eur J Pediatr** 1997 Aug;156(8):636–8

Expression of SV40 large T antigen stimulates reversion of a chromosomal gene duplication in human cells. Cheng RZ, et al. **Exp Cell Res** 1997 Aug 1;234(2):300–12

Virulence gene deletion frequency is increased in Shigella flexneri following conjugation, transduction, and transformation. Porter ME, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):163–72

The disappearing Y chromosome––"I told you so!" [letter; comment] Tripp B, et al. **Fertil Steril** 1997 Feb;67(2):408–11 . Comment on: Fertil Steril 1996 Jul;66(1):110–7.

Deletion analysis of the p16 tumor suppressor gene in gastrointestinal mucosa–associated lymphoid tissue lymphomas. Neumeister P, et al. **Gastroenterology** 1997 Jun; 112(6):1871–5

Prognostic value of chromosome 1p allelic loss in colon cancer. Ogunbiyi OA, et al. **Gastroenterology** 1997 Sep; 113(3):761–6

Deletion of Escherichia coli groEL is complemented by a Rhizobium leguminosarum groEL homologue at 37 degrees C but not at 43 degrees C. Ivic A, et al. **Gene** 1997 Jul 18;194(1):1–8

Positive–negative KG cassettes for construction of multi–gene deletions using a single drug marker. Ueki T, et al. **Gene** 1996 Dec 12;183(1–2):153–7

Persistent transgene expression in mouse liver following in vivo gene transfer with a delta E1/delta E4 adenovirus vector. Wang Q, et al. **Gene Ther** 1997 May;4(5):393–400

A packaging cell line for propagation of recombinant adenovirus vectors containing two lethal gene–region deletions. Wang Q, et al. **Gene Ther** 1995 Dec;2(10):775–83

Frequent allele loss on 9p21–22 defines a smallest common region in the vicinity of the CDKN2 gene in sporadic breast cancer. An HX, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):14–20

Deletions of the short arm of chromosome 2 characterize a new cytogenetic subgroup of benign thyroid tumors. Belge G, et al. **Genes Chromosomes Cancer** 1996 Jun; 16(2):149–51

Two discrete regions of deletion at 7q in uterine leiomyomas. Ishwad CS, et al. **Genes Chromosomes Cancer** 1997 Jul; 19(3):156–60

Detailed deletion analysis of sporadic breast tumors defines an interstitial region of allelic loss on 17q25. Kalikin LM, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):64–8

Patterns of allelic loss on chromosome 17 in sporadic breast carcinomas detected by fluorescent–labeled microsatellite analysis. Niederacher D, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):181–92

Deletion mapping of chromosome 2 in human lung carcinoma. Otsuka T, et al. **Genes Chromosomes Cancer** 1996 Jun;16(2):113–9

Frequent loss of heterozygosity for markers on chromosome arm 10q in chondrosarcomas. Raskind WH, et al. **Genes Chromosomes Cancer** 1996 Jun;16(2):138–43

DNA copy number changes associated with characteristic LOH in islet cell carcinomas of transgenic mice. Shi YP, et al. **Genes Chromosomes Cancer** 1997 Jun;19(2):104–11

ML–1 cell line lacks a germline MLL locus. Strout MP, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):204–10

Relationships of the 2642 deletion polymorphism (delta 2642) in the huntingtin gene with the CAG repeat expansion length and age at onset of the disease. Lucotte G, et al. **Genet Couns** 1996;7(4):297–302

Genetic and molecular analysis of a set of unstable white mutants in Drosophila melanogaster. Rasmuson–Lestander A, et al. **Genetica** 1996 Oct;98(2):179–92

Estimation of deleterious–mutation parameters in natural populations. Deng HW, et al. **Genetics** 1996 Sep; 144(1):349–60

Flanking duplications and deletions associated with P–induced male recombination in Drosophila. Preston CR, et al. **Genetics** 1996 Dec;144(4):1623–38

A yeast artificial chromosome contig that spans the RB1–D13S31 interval on human chromosome 13 and encompasses the frequently deleted region in B–cell chronic lymphocytic leukemia. Hawthorn L, et al. **Genomics** 1995 Dec 10;30(3):425–30

Cloning and characterization of an alternatively spliced gene in proximal Xq28 deleted in two patients with intersexual genitalia and myotubular myopathy. Laporte J, et al. **Genomics** 1997 May 1;41(3):458–62

Molecular cloning and chromosomal localization of the human cyclin C (CCNC) and cyclin E (CCNE) genes: deletion of the CCNC gene in human tumors. Li H, et al. **Genomics** 1996 Mar 1;32(2):253–9

A 1.5–Mb cosmid contig of the CMT1A duplication/HNPP deletion critical region in 17p11.2–p12. Murakami T, et al. **Genomics** 1996 May 15;34(1):128–33

Isolation of novel genes from the CMT1A duplication/HNPP deletion critical region in 17p11.2–p12. Murakami T, et al. **Genomics** 1997 Jan 1;39(1):99–103

Physical mapping of a commonly deleted region, the site of a candidate tumor suppressor gene, at 12q22 in human male germ cell tumors. Murty VV, et al. **Genomics** 1996 Aug 1;35(3):562–70

Identification of a new human catenin gene family member (ARVCF) from the region deleted in velo–cardio–facial syndrome. Sirotkin H, et al. **Genomics** 1997 Apr 1; 41(1):75–83

Allele loss, replication errors and loss of expression of E–cadherin in colorectal cancers. Ilyas M, et al. **Gut** 1997 May;40(5):654–9

Loss of heterozygosity in human ovarian cancer on chromosome 19q. Bicher A, et al. **Gynecol Oncol** 1997 Jul; 66(1):36–40

Poor correlation with loss of heterozygosity on chromosome 17p and p53 mutations in ovarian cancers. Sakamoto T, et al. **Gynecol Oncol** 1996 Nov;63(2):173–9

Apparently normal ankyrin content in unsplenectomized hereditary spherocytosis patients with the inactivation of one ankyrin (ANK1) allele. Miraglia del Giudice E, et al. **Haematologica** 1997 May–Jun;82(3):332–3

A large beta–thalassemia deletion in a family of Indonesian–Malay descent. Dimovski AJ, et al. **Hemoglobin** 1996 Nov;20(4):377–92

The importance of the 3' untranslated region for the expression of the alpha–globin genes. Molchanova TP, et al. **Hemoglobin** 1996 Feb;20(1):41–54

Detection of the alpha–thalassemia–2 (3.7 kb) deletion in DNA extracted from 20–year–old blood smears. Okeagu JE, et al. **Hemoglobin** 1997 Jan;21(1):53–8

Hb Watts [alpha 74(EF3) or alpha 75(EF4)Asp––>0]: a shortened alpha chain variant due to the deletion of three nucleotides in exon 2 of the alpha 2–globin gene. Rahbar S, et al. **Hemoglobin** 1997 Jul;21(4):321–30

Frequency of mutation and deletion of the tumor suppressor gene CDKN2A (MTS1/p16) in hepatocellular carcinoma from an Australian population. Biden K, et al. **Hepatology** 1997 Mar;25(3):593–7

Accumulation and persistence of hepatitis B virus core gene deletion mutants in renal transplant patients are associated with end–stage liver disease. Günther S, et al. **Hepatology** 1996 Oct;24(4):751–8

Antifibrogenic effect of a deletion variant of hepatocyte growth factor on liver fibrosis in rats. Yasuda H, et al. **Hepatology** 1996 Sep;24(3):636–42

Detection of mitochondrial DNA deletion in the late–term placenta. Hashimoto K, et al. **Horm Metab Res** 1996 Nov; 28(11):615–7

DAX–1 gene mutations and deletions in Japanese patients with adrenal hypoplasia congenita and hypogonadotropic hypogonadism. Kinoshita E, et al. **Horm Res** 1997; 48(1):29–34

A case with 47,XXY,del(15)(q11;q13) karyotype associated with Prader–Willi phenotype. Rego A, et al. **Horm Res** 1997;48(1):44–6

Frequency of glutathione S–transferase M1 deletion in smokers with emphysema and lung cancer. Harrison DJ, et al. **Hum Exp Toxicol** 1997 Jul;16(7):356–60

The involvement of Alu repeats in recombination events at the alpha–globin gene cluster: characterization of two alphazero–thalassaemia deletion breakpoints. Harteveld KL, et al. **Hum Genet** 1997 Apr;99(4):528–34

alpha–Thalassemia in The Netherlands: a heterogeneous spectrum of both deletions and point mutations. Harteveld KL, et al. **Hum Genet** 1997 Sep;100(3–4):465–71

Molecular analysis of Gaucher disease: distribution of eight mutations and the complete gene deletion in 27 patients from Germany. le Coutre P, et al. **Hum Genet** 1997 Jun; 99(6):816–21

Characterization of a cytogenetic 17q11.2 deletion in an NF1 patient with a contiguous gene syndrome. Riva P, et al. **Hum Genet** 1996 Dec;98(6):646–50

Cytogenetic rearrangements involving the loss of the Sonic Hedgehog gene at 7q36 cause holoprosencephaly. Roessler E, et al. **Hum Genet** 1997 Aug;100(2):172–81

Deletion analysis of the SMN and NAIP genes in Kuwaiti patients with spinal muscular atrophy. Samilchuk E, et al. **Hum Genet** 1996 Nov;98(5):524–7

Proportion and pattern of dystrophin gene deletions in north Indian Duchenne and Becker muscular dystrophy patients. Singh V, et al. **Hum Genet** 1997 Feb;99(2):206–8

Oculocutaneous albinism (OCA2) in sub–Saharan Africa: distribution of the common 2.7–kb P gene deletion mutation. Stevens G, et al. **Hum Genet** 1997 Apr; 99(4):523–7

Identification of de novo deletions at the NF1 gene: no preferential paternal origin and phenotypic analysis of patients. Valero MC, et al. **Hum Genet** 1997 Jun;99(6):720–6

Somatic mosaicism for deletion of the entire NF1 gene identified by FISH. Wu BL, et al. **Hum Genet** 1997 Feb; 99(2):209–13

Chromosome 3p14 homozygous deletions and sequence analysis of FRA3B. Boldog F, et al. **Hum Mol Genet** 1997

Feb;6(2):193–203

Progress in the autosomal segmental aneusomy syndromes (SASs): single or multi-locus disorders? Budarf ML, et al. **Hum Mol Genet** 1997;6(10):1657–65 (121 ref.)

A multicopy transcription-repair gene, BTF2p44, maps to the SMA region and demonstrates SMA associated deletions. Carter TA, et al. **Hum Mol Genet** 1997 Feb; 6(2):229–36

Identification of a hot spot for microdeletions in patients with X-linked deafness type 3 (DFN3) 900 kb proximal to the DFN3 gene POU3F4. de Kok YJ, et al. **Hum Mol Genet** 1996 Sep;5(9):1229–35

Unequal interchromosomal rearrangements may result in elastin gene deletions causing the Williams-Beuren syndrome. Dutly F, et al. **Hum Mol Genet** 1996 Dec; 5(12):1893–8

Targeted disruption of the mouse sphingolipid activator protein gene: a complex phenotype, including severe leukodystrophy and wide-spread storage of multiple sphingolipids. Fujita N, et al. **Hum Mol Genet** 1996 Jun; 5(6):711–25

Point mutations and an intragenic deletion in LIS1, the lissencephaly causative gene in isolated lissencephaly sequence and Miller-Dieker syndrome. Lo Nigro C, et al. **Hum Mol Genet** 1997 Feb;6(2):157–64

UFD1L, a developmentally expressed ubiquitination gene, is deleted in CATCH 22 syndrome. Pizzuti A, et al. **Hum Mol Genet** 1997 Feb;6(2):259–65

Identification of a gene disrupted by a microdeletion in a patient with X-linked retinitis pigmentosa (XLRP). Roepman R, et al. **Hum Mol Genet** 1996 Jun;5(6):827–33

Molecular characterization of breakpoints in patients with holoprosencephaly and definition of the HPE2 critical region 2p21. Schell U, et al. **Hum Mol Genet** 1996 Feb; 5(2):223–9

Pex gene deletions in Gy and Hyp mice provide mouse models for X-linked hypophosphatemia. Strom TM, et al. **Hum Mol Genet** 1997 Feb;6(2):165–71

Molecular and phenotypic variation in patients with severe Hunter syndrome. Timms KM, et al. **Hum Mol Genet** 1997 Mar;6(3):479–86

Human Y chromosome azoospermia factors (AZF) mapped to different subregions in Yq11. Vogt PH, et al. **Hum Mol Genet** 1996 Jul;5(7):933–43

Characterization of survival motor neuron (SMNT) gene deletions in asymptomatic carriers of spinal muscular atrophy. Wang CH, et al. **Hum Mol Genet** 1996 Mar; 5(3):359–65

Example of somatic mosaicism in a series of de novo neurofibromatosis type 1 cases due to a maternally derived deletion. Ainsworth PJ, et al. **Hum Mutat** 1997;9(5):452–7

Deletions spanning the neurofibromatosis type 1 gene: implications for genotype-phenotype correlations in neurofibromatosis type 1? Cnossen MH, et al. **Hum Mutat** 1997;9(5):458–64

Mucopolysaccharidosis IVA (Morquio A): three novel small deletions in the N-acetylgalactosamine-6-sulfate sulfatase gene. Fukuda S, et al. **Hum Mutat** 1996;8(2):187–90

Prevalence of Epstein-Barr viral sequences and EBV LMP1 oncogene deletions in Burkitt's lymphoma from Pakistan: epidemiological correlations. Mansoor A, et al. **Hum Pathol** 1997 Mar;28(3):283–8

Microdeletions of the Y chromosome and intracytoplasmic sperm injection: from gene to clinic. Kremer JA, et al. **Hum Reprod** 1997 Apr;12(4):687–91

Azoospermic men with deletion of the DAZ gene cluster are capable of completing spermatogenesis: fertilization, normal embryonic development and pregnancy occur when retrieved testicular spermatozoa are used for intracytoplasmic sperm injection. Mulhall JP, et al. **Hum Reprod** 1997 Mar;12(3):503–8

Duplications and deletions of the human IGHC locus: evolutionary implications. Rabbani H, et al. **Immunogenetics** 1996;45(2):136–41

Salivary IgG subclasses in individuals with and without homozygous IGHG gene deletions. Engström PE, et al. **Immunology** 1996 Oct;89(2):178–82

Genotype-phenotype correlation in Duchenne/Becker muscular dystrophy patients seen at Lucknow. Mittal B, et al. **Indian J Med Res** 1997 Jan;105:32–8

Safety of live oral Salmonella typhi vaccine strains with deletions in htrA and aroC aroD and immune response in humans. Tacket CO, et al. **Infect Immun** 1997 Feb; 65(2):452–6

The role of recombination signal sequences in the preferential joining by deletion in DH-JH recombination and in the ordered rearrangement of the IgH locus. Pan PY, et al. **Int Immunol** 1997 Apr;9(4):515–22

APC gene mutations and allelic losses in sporadic ampullary tumours: evidence of genetic difference from tumours associated with familial adenomatous polyposis. Achille A, et al. **Int J Cancer** 1996 Nov 4;68(3):305–12

Deletion analysis at the DEL-27, APC and MTS1 loci in bladder cancer: LOH at the DEL-27 locus on 5p13-12 is a prognostic marker of tumor progression. Böhm M, et al. **Int J Cancer** 1997 Jun 20;74(3):291–5

Deletion of chromosome 11p15, p12, q22, q23-24 loci in human prostate cancer. Dahiya R, et al. **Int J Cancer** 1997 Jul 17;72(2):283–8

Genomic deletion and p53 inactivation in cervical carcinoma. Ku WH, et al. **Int J Cancer** 1997 Jul 17;72(2):270–6

Prevalence of mutations and 30-bp deletion in the C-terminal region of Epstein-Barr virus latent membrane protein-1 oncogene in reactive lymphoid tissue and non-nasopharyngeal EBV-associated carcinomas in Hong Kong Chinese. Leung SY, et al. **Int J Cancer** 1997 Jul 17;72(2):225–30

Loss of heterozygosity at the TP53 gene: independent occurrence from genetic instability events in node-negative breast cancer. Lizard-Nacol S, et al. **Int J Cancer** 1997 Aug 7;72(4):599–603

Homozygous deletions of p16(INK4) occur frequently in bilharziasis-associated bladder cancer. Tamimi Y, et al. **Int J Cancer** 1996 Oct 9;68(2):183–7

Identification of an exon 3 deletion splice variant androgen receptor mRNA in human breast cancer. Zhu X, et al. **Int J Cancer** 1997 Aug 7;72(4):574–80

Y chromosome (Yq11) microdeletions in idiopathic azoospermia. Shirakawa T, et al. **Int J Urol** 1997 Mar; 4(2):198–201

Correlation of allelic loss of the P53 gene and tumor grade, stage, and malignant progression in bladder cancer. Tsutsumi M, et al. **Int J Urol** 1997 Jan;4(1):74–8

Keratin 12-deficient mice have fragile corneal epithelia. Kao WW, et al. **Invest Ophthalmol Vis Sci** 1996 Dec; 37(13):2572–84

High frequency of a deletion polymorphism of the angiotensin-converting enzyme gene in asthma. Benessiano J, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):53–7

Deletion polymorphism of angiotensin-converting enzyme gene and left ventricular hypertrophy in southern Italian patients. Perticone F, et al. **J Am Coll Cardiol** 1997 Feb; 29(2):365–9

Analysis of fused maxillary incisor dentition in p53-deficient exencephalic mice. Kaufman MH, et al. **J Anat** 1997 Jul; 191 (Pt 1):57–64

Brief report: cognitive and behavioral profiles in persons with Smith-Magenis syndrome. Dykens EM, et al. **J Autism Dev Disord** 1997 Apr;27(2):203–11

Cloning and characterization of the region III flagellar operons of the four Shigella subgroups: genetic defects that cause loss of flagella of Shigella boydii and Shigella sonnei. Al Mamun AA, et al. **J Bacteriol** 1997 Jul;179(14):4493–500

Base miscoding and strand misalignment errors by mutator Klenow polymerases with amino acid substitutions at tyrosine 766 in the O helix of the fingers subdomain. Bell JB, et al. **J Biol Chem** 1997 Mar 14;272(11):7345–51

Biochemical and molecular consequences of massive mitochondrial gene loss in different tissues of a mutant strain of Drosophila subobscura. Béziat F, et al. **J Biol Chem** 1997 Sep 5;272(36):22583–90

Frequent loss in chromosome 8p loci in liver cirrhosis accompanying hepatocellular carcinoma. Kishimoto Y, et al. **J Cancer Res Clin Oncol** 1996;122(10):585–9

Bcl-2 is closely correlated with favorable prognostic factors and inversely associated with p53 protein accumulation in endometrial carcinomas: immunohistochemical and polymerase chain reaction/loss of heterozygosity findings. Saegusa M, et al. **J Cancer Res Clin Oncol** 1997; 123(8):429–34

Allelic deletion in pituitary adenomas reflects aggressive biological activity and has potential value as a prognostic marker. Bates AS, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):818–24

Y-chromosome deletions in idiopathic severe testiculopathies. Foresta C, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1075–80

Identification of a large-scale mitochondrial deoxyribonucleic acid deletion in endocrinopathies and deafness: report of two unrelated cases with diabetes mellitus and adrenal insufficiency, respectively. Nicolino M, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3063–7

Deletion of the adrenocorticotropin receptor gene in human adrenocortical tumors: implications for tumorigenesis. Reincke M, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):3054–8

Pex/PEX tissue distribution and evidence for a deletion in the 3' region of the Pex gene in X-linked hypophosphatemic mice. Beck L, et al. **J Clin Invest** 1997 Mar 15;99(6):1200–9

Survival motor neuron gene deletion in the arthrogryposis multiplex congenita-spinal muscular atrophy association. Bürglen L, et al. **J Clin Invest** 1996 Sep 1;98(5):1130–2

Chimeric mice carrying 'regional' targeted deletion of the angiotensin type 1A receptor gene. Evidence against the role for local angiotensin in the in vivo feedback regulation of renin synthesis in juxtaglomerular cells. Matsusaka T, et al. **J Clin Invest** 1996 Oct 15;98(8):1867–77

Deletions of p15 and/or p16 genes as a poor-prognosis factor in adult T-cell leukemia. Yamada Y, et al. **J Clin Oncol** 1997 May;15(5):1778–85

A 4-base pair deletion mutation of Gs alpha gene in a Japanese patient with pseudohypoparathyroidism. Yokoyama M, et al. **J Endocrinol Invest** 1996 Apr; 19(4):236–41

Naturally occurring core-gene-defective hepatitis B viruses. Akarca US, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1821–6

Reduced antigen production by hepatitis B virus harbouring nucleotide deletions in the overlapping X gene and precore-core promoter. Moriyama K. **J Gen Virol** 1997 Jun;78 (Pt 6):1479–86

In vivo complementation studies of a glycoprotein H-deleted herpes simplex virus-based vector. Speck PG, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2563–8

Angiotensin converting enzyme insertion-deletion polymorphism in Chinese. Young RP, et al. **J Hypertens** 1995 Dec;13(12 Pt 1):1479–80

The natural history of disease expression in CD4 and CD8 gene-deleted New Zealand black (NZB) mice. Chen SY, et al. **J Immunol** 1996 Sep 15;157(6):2676–84

Activation and transdominant suppression of MHC class II and HLA-DMB promoters by a series of C-terminal class II transactivator deletion mutants. Chin KC, et al. **J Immunol** 1997 Sep 15;159(6):2789–94

Mice with a targeted deletion of the IgE gene have increased worm burdens and reduced granulomatous inflammation following primary infection with Schistosoma mansoni. King CL, et al. **J Immunol** 1997 Jan 1;158(1):294–300

Multiple deletions of mitochondrial DNA in muscle from a patient with benign progressive external ophthalmoplegia. Campos Y, et al. **J Inherit Metab Dis** 1996;19(3):366–7

Deletions in the survival motor neuron gene in Turkish spinal muscular atrophy patients. Erdem H, et al. **J Inherit Metab Dis** 1996;19(6):724–8

Association of hyperprolinaemia type I and heparin cofactor II deficiency with CATCH 22 syndrome: evidence for a contiguous gene syndrome locating the proline oxidase gene. Jaeken J, et al. **J Inherit Metab Dis** 1996;19(3):275–7

Loss of heterozygosity on chromosome 10, 13q(Rb), 17p, and p53 gene mutations in human brain gliomas. Lee SH, et al. **J Korean Med Sci** 1995 Dec;10(6):442–8

Rubinstein-Taybi syndrome with deletions of FISH probe RT1 at 16p13.3: two UK patients. McGaughran JM, et al. **J Med Genet** 1996 Jan;33(1):82–3

Unusual molecular findings in autosomal recessive spinal muscular atrophy. Matthijs G, et al. **J Med Genet** 1996 Jun;33(6):469–74

De novo deletions in spinal muscular atrophy: implications for genetic counselling [letter] Raclin V, et al. **J Med Genet** 1997 Jan;34(1):86–7

Gene deletions in spinal muscular atrophy. Rodrigues NR, et al. **J Med Genet** 1996 Feb;33(2):93–6

A 4 Mb cryptic deletion associated with inv(8)(q13.1q24.11) in a patient with trichorhinophalangeal syndrome type I. Sasaki T, et al. **J Med Genet** 1997 Apr;34(4):335–9

Glutathione S-transferase and N-acetyltransferase genotypes and asbestos-associated pulmonary disorders. Hirvonen A, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1853–6

Genetic approaches to cancer unfold [news] McBride G. **J Natl Cancer Inst** 1996 Dec 4;88(23):1709–11

Identical genetic changes in different histologic components of Wilms' tumors [see comments] Zhuang Z, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1148–52. Comment in: J Natl Cancer Inst 1997 Aug 6;89(15):1089–91.

Regulation of N-terminus-deleted human tyrosine hydroxylase type 1 by end products of catecholamine biosynthetic pathway. Ota A, et al. **J Neural Transm** 1996; 103(12):1415–28

Assembly properties of amino- and carboxyl-terminally truncated neurofilament NF-H proteins with NF-L and NF-M in the presence and absence of vimentin. Sun D, et al. **J Neurochem** 1997 Mar;68(3):917–26

Hereditary neuropathy with liability to pressure palsies with a partial deletion of the region often duplicated in Charcot-Marie-Tooth disease, type 1A [letter] Chapon F, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):535–6

Prognostic factors in mild dystrophinopathies. Angelini C, et al. **J Neurol Sci** 1996 Oct;142(1-2):70–8

Mitochondrial encephalopathy with multiple mitochondrial DNA deletions: a report of two families and two sporadic cases with unusual clinical and neuropathological features. Chalmers RM, et al. **J Neurol Sci** 1996 Nov;143(1-2):41–5

Benign monomelic amyotrophies of upper and lower limb are not associated to deletions of survival motor neuron gene. Guglielmo GD, et al. **J Neurol Sci** 1996 Sep 15; 141(1-2):111–3

Hereditary neuropathy with liability to pressure palsies: distinguishing clinical and electrophysiological features among patients with multiple entrapment neuropathy [published erratum appears in J Neurol Sci 1997 Jan;145(1):126] Hirota N, et al. **J Neurol Sci** 1996 Aug; 139(2):187–9

Developmental genetics of deleted mtDNA in mitochondrial oculomyopathy. Marzuki S, et al. **J Neurol Sci** 1997 Feb 12;145(2):155–62

The relationship of spinal muscular atrophy to motor neuron disease: investigation of SMN and NAIP gene deletions in sporadic and familial ALS. Orrell RW, et al. **J Neurol Sci** 1997 Jan;145(1):55–61

Familial amyotrophic lateral sclerosis with a two base pair deletion in superoxide dismutase 1: gene multisystem degeneration with intracytoplasmic hyaline inclusions in astrocytes. Kato S, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1089–101

Loss of alkaline phosphatase activity in meningiomas: a rapid histochemical technique indicating progression-associated deletion of a putative tumor suppressor gene on the distal part of the short arm of chromosome 1. Niedermayer I, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):879–86

Malignant astrocytomas with homozygous CDKN2/p16 gene deletions have higher Ki-67 proliferation indices. Ono Y, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1026–31

Detection of p16 gene deletions in gliomas: a comparison of fluorescence in situ hybridization (FISH) versus quantitative PCR. Perry A, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):999–1008

GENE DELETION

A herpes simplex virus type 1 mutant with a deletion immediately upstream of the LAT locus establishes latency and reactivates from latently infected mice with normal kinetics [see comments] Maggioncalda J, et al. **J Neurovirol** 1996 Aug;2(4):268–78. Comment in: J Neurovirol 1996 Aug;2(4):225–9.

Capsid protein VP1 deletions in JC virus from two AIDS patients with progressive multifocal leukoencephalopathy. Stoner GL, et al. **J Neurovirol** 1995 Jun;1(2):189–94

Two brothers with a 7.0 kb gene deletion associated with isolated growth hormone deficiency type 1A. Sercan OH, et al. **J Pediatr Endocrinol Metab** 1996 May–Jun;9(3):423–7

Normal pituitary size in two patients with growth hormone gene deletion. Zucchini S, et al. **J Pediatr Endocrinol Metab** 1996 Sep–Oct;9(5):545–8

Deletion of the p53 gene in a patient with aggressive burn scar carcinoma. Harland DL, et al. **J Trauma** 1997 Jan; 42(1):104–7

p16 (CDKN2/MTS1) gene deletions are rare in prostatic carcinomas in the United States and Japan. Mangold KA, et al. **J Urol** 1997 Mar;157(3):1117–20

Generation of coronavirus spike deletion variants by high-frequency recombination at regions of predicted RNA secondary structure. Rowe CL, et al. **J Virol** 1997 Aug;71(8):6183–90

Isolation of gE gene deleted pseudorabies virus by using a gE specific monoclonal antibody. Chang AC, et al. **J Virol Methods** 1996 Jun;60(1):19–28

Mutational analysis of the p53 and K-ras genes and allelotype study of the Rb-1 gene for investigating the pathogenesis of combined hapatocellular-cholangiocellular carcinomas. Imai Y, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1056–62

Allelic loss of chromosome 16q in endometrial cancer: correlation with poor prognosis of patients and less differentiated histology. Kihana T, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1184–90

Deletion of Src homology 3 domain results in constitutive activation of Tec protein-tyrosine kinase. Yamashita Y, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1106–10

A comparative study of glioma cell lines for p16, p15, p53 and p21 gene alterations. Zhang S, et al. **Jpn J Cancer Res** 1996 Sep;87(9):900–7

Association of the angiotensin I converting enzyme gene deletion polymorphism with early onset of ESRF in PKD1 adult polycystic kidney disease. Baboolal K, et al. **Kidney Int** 1997 Sep;52(3):607–13

Dual effect of CCR5 delta 32 gene deletion in HIV-1-infected patients. Copenhagen AIDS Study Group [letter] Garred P, et al. **Lancet** 1997 Jun 28;349(9069):1884

Detection of gene deletion in single metastatic tumour cells in lymphnode tissue by fluorescent in-situ hybridisation [letter] [see comments] Pack S, et al. **Lancet** 1997 Jul 26; 350(9073):264–5. Comment in: Lancet 1997 Jul 26;350(9073):231.

32 bp CCR-5 gene deletion and resistance to fast progression in HIV-1 infected heterozygotes [letter] Rappaport J, et al. **Lancet** 1997 Mar 29;349(9056):922–3

Allele imbalance at tumour suppressor loci during the indolent phase of follicle centre cell lymphoma. Randerson J, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):113–7, follow. 186, color plate X

Shortened survival after relapse in T-cell acute lymphoblastic leukemia patients with p16/p15 deletions. Diccianni MB, et al. **Leuk Res** 1997 Jun;21(6):549–58

ETV6 is the target of chromosome 12p deletions in t(12;21) childhood acute lymphocytic leukemia. Cavé H, et al. **Leukemia** 1997 Sep;11(9):1459–64

Frequent clonal loss of heterozygosity (LOH) in the chromosomal region 1p32 occurs in childhood T cell acute lymphoblastic leukemia (T-ALL) carrying rearrangements of the TAL1 gene. Iolascon A, et al. **Leukemia** 1997 Mar; 11(3):359–63

Potential role for concurrent abnormalities of the cyclin D1, p16CDKN2 and p15CDKN2B genes in certain B cell non-Hodgkin's lymphomas. Functional studies in a cell line (Granta 519). Jadayel DM, et al. **Leukemia** 1997 Jan; 11(1):64–72

Mosaicism of the 5q deletion as assessed by interphase FISH is a common phenomenon in MDS and restricted to myeloid cells. Kroef MJ, et al. **Leukemia** 1997 Apr; 11(4):519–23

Lack of ETV6 (TEL) gene rearrangements or p16INK4A/p15INK4B homozygous gene deletions in infant acute lymphoblastic leukemia. Maloney KW, et al. **Leukemia** 1997 Jul;11(7):979–83

A third case of apparent t(2;4)(p23;q25) represents ins(2;4) with deletion of 2p. Richkind KE, et al. **Leukemia** 1996 Nov;10(11):1847

Homozygous deletions at 9p21 in childhood acute lymphoblastic leukemia detected by microsatellite analysis. Takeuchi S, et al. **Leukemia** 1997 Oct;11(10):1636–40

Direct repeat sequences are not required at the breakpoints of age-associated mitochondrial DNA deletions in rhesus monkeys. Lee CM, et al. **Mech Ageing Dev** 1994 Jul; 75(1):69–79

Clinicopathologic correlates of loss of heterozygosity in Wilm's tumor: a preliminary analysis. Grundy P, et al. **Med Pediatr Oncol** 1996 Nov;27(5):429–33

DCC genetic alterations and expression in endometrial carcinoma. Ronnett BM, et al. **Mod Pathol** 1997 Jan; 10(1):38–46

Allelotypic and cytogenetic characterization of chemically induced mouse mammary tumors: high frequency of chromosome 4 loss of heterozygosity at advanced stages of progression. Aldaz CM, et al. **Mol Carcinog** 1996 Nov; 17(3):126–33

Loss of heterozygosity at loci on chromosome 4, a common genetic event during the spontaneous immortalization of mouse embryonic fibroblasts. Obata M, et al. **Mol Carcinog** 1997 May;19(1):17–24

Variability in loss of constitutional heterozygosity across loci and among individuals: association with candidate genes in ductal breast carcinoma. Rebbeck TR, et al. **Mol Carcinog** 1996 Nov;17(3):117–25

Loss of heterozygosity on chromosome 9q21 (p16 gene) uncommon in soft-tissue sarcomas. Schneider-Stock R, et al. **Mol Carcinog** 1997 Feb;18(2):63–5

Consistent allelic loss on mouse chromosome 7 distal to tyrosinase in 4-nitroquinoline-1-oxide-induced oral cavity tumors with loss of heterozygosity at Ha-ras-1. Yuan B, et al. **Mol Carcinog** 1997 May;19(1):8–16

Loss of heterozygosity and base substitution at the APRT locus in mismatch-repair-proficient and -deficient colorectal carcinoma cell lines. Phear G, et al. **Mol Cell Biol** 1996 Nov;16(11):6516–23

Mutations in the homologous ZDS1 and ZDS2 genes affect cell cycle progression. Yu Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5254–63

High frequency deletion of the tumour suppressor gene P16INK4a (MTS1) in human thyroid cancer cell lines. Jones CJ, et al. **Mol Cell Endocrinol** 1996 Jan 15; 116(1):115–9

Deletions in the extracellular domain of rat trkA lead to an altered differentiative phenotype in neurotrophin responsive cells. MacDonald JI, et al. **Mol Cell Neurosci** 1996 May;7(5):371–90

Distribution of dystrophin gene deletions mapped by multiplex PCR in the Moravian population. Fajkusová L, et al. **Mol Cell Probes** 1997 Feb;11(1):85–7

Point mutation in the ligand-binding domain of the progesterone receptor generates a transdominant negative phenotype. Gong W, et al. **Mol Endocrinol** 1997 Sep; 11(10):1476–85

Chromosomal deletions in Streptomyces griseus that remove the afsA locus. Lezhava A, et al. **Mol Gen Genet** 1997 Jan 27;253(4):478–83

Development of gene transfer methods for Rubrivivax gelatinosus S1: construction, characterization and complementation of a puf operon deletion strain. Ouchane S, et al. **Mol Gen Genet** 1996 Sep 25;252(4):379–85

Correction or transfer of immunodeficiency due to TNF-LT alpha deletion by bone marrow transplantation. Müller M, et al. **Mol Med** 1996 Mar;2(2):247–55

Gene knockout of the alpha6 subunit of the gamma-aminobutyric acid type A receptor: lack of effect on responses to ethanol, pentobarbital, and general anesthetics. Homanics GE, et al. **Mol Pharmacol** 1997 Apr; 51(4):588–96

Duchenne phenotype with in-frame deletion removing major portion of dystrophin rod: threshold effect for deletion size? Fanin M, et al. **Muscle Nerve** 1996 Sep;19(9):1154–60

Severe Charcot-Marie-Tooth neuropathy type 1A with 1-base pair deletion and frameshift mutation in the peripheral myelin protein 22 gene. Ionasescu VV, et al. **Muscle Nerve** 1997 Oct;20(10):1308–10

Recurrent polyradiculoneuropathy with the 17p11.2 deletion. Le Forestier N, et al. **Muscle Nerve** 1997 Sep;20(9):1184–6

A case of cluster headache associated with mitochondrial DNA deletions [letter] Odawara M, et al. **Muscle Nerve** 1997 Mar;20(3):394–5

Simple and rapid detection of large mitochondrial DNA deletions in mitochondrial encephalomyopathy by long PCR [letter] Yamamoto M, et al. **Muscle Nerve** 1996 Jul; 19(7):928–9

An Escherichia coli topB mutant increases deletion and frameshift mutations in the supF target gene. Uematsu N, et al. **Mutat Res** 1997 May 1;383(3):223–30

Intrauterine growth retardation and postnatal growth failure associated with deletion of the insulin-like growth factor I gene [see comments] Woods KA, et al. **N Engl J Med** 1996 Oct 31;335(18):1363–7. Comment in: N Engl J Med 1996 Oct 31;335(18):1389–91.

A tenascin knockout with a phenotype [news; comment] Erickson HP. **Nat Genet** 1997 Sep;17(1):5–7. Comment on: Nat Genet 1997 Sep;17(1):104–8.

Human KVLQT1 gene shows tissue-specific imprinting and encompasses Beckwith-Wiedemann syndrome chromosomal rearrangements [see comments] Lee MP, et al. **Nat Genet** 1997 Feb;15(2):181–5. Comment in: Nat Genet 1997 Feb;15(2):113–5.

DMBT1, a new member of the SRCR superfamily, on chromosome 10q25.3-26.1 is deleted in malignant brain tumours. Mollenhauer J, et al. **Nat Genet** 1997 Sep; 17(1):32–9

Deletion of p21 cannot substitute for p53 loss in rescue of mdm2 null lethality [letter] Montes de Oca Luna R, et al. **Nat Genet** 1997 Aug;16(4):336–7

Pseudoautosomal deletions encompassing a novel homeobox gene cause growth failure in idiopathic short stature and Turner syndrome [see comments] Rao E, et al. **Nat Genet** 1997 May;16(1):54–63. Comment in: Nat Genet 1997 May;16(1):3–4.

Emerin deletion reveals a common X-chromosome inversion mediated by inverted repeats [see comments] Small K, et al. **Nat Genet** 1997 May;16(1):96–9. Comment in: Nat Genet 1997 May;16(1):11.

Amyloid deposition is delayed in mice with targeted deletion of the serum amyloid P component gene. Botto M, et al. **Nat Med** 1997 Aug;3(8):855–9

Deletion insertion polymorphism of the angiotensin converting enzyme gene and progression of diabetic nephropathy. Björck S, et al. **Nephrol Dial Transplant** 1997; 12 Suppl 2:67–70

Complement 4 locus II gene deletion and DQA1*0301 gene: genetic risk factors for IgA nephropathy and Henoch-Schönlein nephritis. Jin DK, et al. **Nephron** 1996; 73(3):390–5

Arthrogryposis due to infantile neuronal degeneration associated with deletion of the SMNT gene. Bingham PM, et al. **Neurology** 1997 Sep;49(3):848–51

Cramps and minimal EMG abnormalities as preclinical manifestations of spinal muscular atrophy patients with homozygous deletions of the SMN gene. Bussaglia E, et al. **Neurology** 1997 May;48(5):1443–5

Phenotypic heterogeneity in hereditary neuropathy with liability to pressure palsies associated with chromosome 17p11.2-12 deletion. Pareyson D, et al. **Neurology** 1996 Apr;46(4):1133–7

Autosomal dominant progressive external ophthalmoplegia with multiple deletions of mtDNA: clinical, biochemical, and molecular genetic features of the 10q-linked disease. Suomalainen A, et al. **Neurology** 1997 May;48(5):1244–53

A trinucleotide deletion in the transthyretin gene (delta V 122) in a kindred with familial amyloidotic polyneuropathy. Uemichi T, et al. **Neurology** 1997 Jun;48(6):1667–70

DMD-specific FISH probes are diagnostically useful in the detection of female carriers of DMD gene deletions. Voskova-Goldman A, et al. **Neurology** 1997 Jun; 48(6):1633–8

Discordant clinical outcome in type III spinal muscular atrophy sibships showing the same deletion pattern. Capon F, et al. **Neuromuscul Disord** 1996 Aug;6(4):261–4

Advances in SMA research: review of gene deletions. Morrison KE. **Neuromuscul Disord** 1996 Dec;6(6):397–408 (89 ref.)

Gene conversion at the SMN locus in autosomal recessive spinal muscular atrophy does not predict a mild phenotype. Talbot K, et al. **Neuromuscul Disord** 1997 May;7(3):198–201

Spinal muscular atrophy--clinical and genetic correlations. Zerres K, et al. **Neuromuscul Disord** 1997 May;7(3):202–7 (35 ref.)

floating head and masterblind regulate neuronal patterning in the roof of the forebrain. Masai I, et al. **Neuron** 1997 Jan;18(1):43–57

Intact spatial learning and memory in transgenic mice with reduced BDNF. Montkowski A, et al. **Neuroreport** 1997 Feb 10;8(3):779–82

The deletion allele of the angiotensin I converting enzyme gene as a genetic susceptibility factor for cognitive impairment. Amouyel P, et al. **Neurosci Lett** 1996 Oct 18; 217(2-3):203–5

Use of cosH1 probe in hereditary neuropathy with liability to pressure palsies: a reliable genetic test for demonstration of identical size of 17p11.2 deletion in unrelated patients. Bellone E, et al. **Neurosci Lett** 1996 Jul 26;213(1):71–3

Increased A beta 42(43)-plaque deposition in early-onset familial Alzheimer's disease brains with the deletion of exon 9 and the missense point mutation (H163R) in the PS-1 gene. Ishii K, et al. **Neurosci Lett** 1997 May 30;228(1):17–20

An in-frame deletion in peripheral myelin protein-22 gene causes hypomyelination and cell death of the Schwann cells in the new Trembler mutant mice. Suh JG, et al. **Neuroscience** 1997 Aug;79(3):735–44

Retinoic acid induces a tissue-specific deletion in the expression domain of Otx2. Clotman F, et al. **Neurotoxicol Teratol** 1997 May–Jun;19(3):163–9

Chromosome 17 copy numbers and incidence of p 53 gene deletion in gastric cancer cells. Dual color fluorescence in situ hybridization analysis. Suzuki S, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb;64(1):22–9

Isolating large nested deletions in bacterial and P1 artificial chromosomes by in vivo P1 packaging of products of Cre-catalysed recombination between the endogenous and a transposed loxP site. Chatterjee PK, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2205–12

B lymphocyte-specific, Cre-mediated mutagenesis in mice. Rickert RC, et al. **Nucleic Acids Res** 1997 Mar 15; 25(6):1317–8

Identification of a 1300 kilobase deletion unit on chromosome 7q31.3 in invasive epithelial ovarian carcinomas. Edelson MI, et al. **Oncogene** 1997 Jun 19;14(24):2979–84

Allelic loss determination in chronic lymphocytic leukemia by immunomagnetic bead sorting and microsatellite marker analysis. Gartenhaus RB. **Oncogene** 1997 Jan 23;14(3):375–8

Comparative genomic hybridisation of ductal carcinoma in situ of the breast: identification of regions of DNA amplification and deletion in common with invasive breast carcinoma. James LA, et al. **Oncogene** 1997 Mar 6; 14(9):1059–65

A region of interstitial 17q25 allelic loss in ovarian tumors coincides with a defined region of loss in breast tumors. Kalikin LM, et al. **Oncogene** 1997 Apr 24;14(16):1991–4

New deletion in low-grade oligodendroglioma at the glioblastoma suppressor locus on chromosome 10q25-26. Maier D, et al. **Oncogene** 1997 Aug 18;15(8):997–1000

Inactivation of the cyclin-dependent kinase inhibitor

p15INK4b by deletion and de novo methylation with independence of p16INK4a alterations in murine primary T-cell lymphomas. Malumbres M, et al. **Oncogene** 1997 Mar 20;14(11):1361-70

Deletion mapping of chromosome 4 in head and neck squamous cell carcinoma. Pershouse MA, et al. **Oncogene** 1997 Jan 23;14(3):369-73

Refined deletion mapping of the chromosome 19q glioma tumor suppressor gene to the D19S412-STD interval. Rosenberg JE, et al. **Oncogene** 1996 Dec 5;13(11):2483-5

Transition of human papillomavirus type 16 and 18 transfected human foreskin keratinocytes towards immortality: activation of telomerase and allele losses at 3p, 10p, 11q and/or 18q. Steenbergen RD, et al. **Oncogene** 1996 Sep 19;13(6):1249-57

Development of a sensitive PCR to detect allele loss in a model hematopoietic neoplasm. Fairman J, et al. **PCR Methods Appl** 1994 Aug;4(1):6-12

Incidence and clinical significance of CDKN2/MTS1/P16ink4A and MTS2/P15ink4B gene deletions in childhood acute lymphoblastic leukemia. Zhou M, et al. **Pediatr Hematol Oncol** 1997 Mar-Apr; 14(2):141-50

A deleted retroviral insertion at the ev21-K complex locus in Indonesian chickens. Tixier-Boichard M, et al. **Poult Sci** 1997 May;76(5):733-42

De novo interstitial proximal deletion of 14q and prenatal diagnosis of holoprosencephaly [letter] Bruyere H, et al. **Prenat Diagn** 1996 Nov;16(11):1059-60

Microdeletion and microduplication syndromes. Malcolm S. **Prenat Diagn** 1996 Dec;16(13):1213-9 (57 ref.)

Gene-targeted deletion and replacement mutations of the T-cell receptor beta-chain enhancer: the role of enhancer elements in controlling V(D)J recombination accessibility. Bories JC, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):7871-6

Deletion of the mouse T-cell receptor beta gene enhancer blocks alphabeta T-cell development. Bouvier G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7877-81

Elimination of the Chlamydomonas gene family that encodes the small subunit of ribulose-1,5-bisphosphate carboxylase/oxygenase. Khrebtukova I, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13689-93

Candida albicans strains heterozygous and homozygous for mutations in mitogen-activated protein kinase signaling components have defects in hyphal development. Köhler JR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13223-8

Abrogation of the alternative complement pathway by targeted deletion of murine factor B. Matsumoto M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8720-5

Mouse mammary tumor virus/v-Ha-ras transgene-induced mammary tumors exhibit strain-specific allelic loss on mouse chromosome 4. Radany EH, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8664-9

Acetylcholine receptor epsilon-subunit deletion causes muscle weakness and atrophy in juvenile and adult mice. Witzemann V, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13286-91

Targeted deletion of the mouse POU domain gene Brn-3a causes selective loss of neurons in the brainstem and trigeminal ganglion, uncoordinated limb movement, and impaired suckling. Xiang M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11950-5

Oguchi disease: phenotypic characteristics of patients with the frequent 1147delA mutation in the arrestin gene. Nakazawa M, et al. **Retina** 1997;17(1):17-22

Bypass of senescence after disruption of p21CIP1/WAF1 gene in normal diploid human fibroblasts. Brown JP, et al. **Science** 1997 Aug 8;277(5327):831-4

Loss of heterozygosity in normal tissue adjacent to breast carcinomas. Deng G, et al. **Science** 1996 Dec 20; 274(5295):2057-9

Genes transfected into embryonal carcinoma stem cells are both lost and inactivated at high frequency. Schmidt-Kastner PK, et al. **Somat Cell Mol Genet** 1996 Sep;22(5):383-92

Coloboma contiguous gene deletion encompassing Snap alters hippocampal plasticity. Steffensen SC, et al. **Synapse** 1996 Mar;22(3):281-9

A heparin cofactor II mutation (HCII Rimini) combined with factor V Leiden or type I protein C deficiency in two unrelated thrombophilic subjects. Bernardi F, et al. **Thromb Haemost** 1996 Oct;76(4):505-9

Plasminogen activator inhibitor-1 (PAI-1) 4G/5G promoter polymorphism and levels in subjects with cerebrovascular disease. Catto AJ, et al. **Thromb Haemost** 1997 Apr; 77(4):730-4

New mutations causing the premature termination of translation in the A subunit gene of coagulation factor XIII. Kangsadalampai S, et al. **Thromb Haemost** 1996 Aug; 76(2):139-42

Disruption of cyclooxygenase genes in mice. Mahler JF, et al. **Toxicol Pathol** 1996 Nov-Dec;24(6):717-9 (6 ref.)

Occurrence of the erythrocyte band 3 (AE1) gene deletion in relation to malaria endemicity in Papua New Guinea. Mgone CS, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun;90(3):228-31

Association between the accumulation of hepatitis B virus core gene deletion mutants and progression of liver disease in long-term renal transplant patients. Reinke P, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):815-6

RFLP discordance in a PKU family due to a deletion in the PAH gene. Bosco P, et al. **Turk J Pediatr** 1996 Oct-Dec;38(4):497-504

Detection of loss of heterozygosity in the APC tumor suppressor gene in nonpapillary renal cell carcinoma by microdissection and polymerase chain reaction. Böhm M, et al. **Urol Res** 1997;25(3):161-5

The 9p21 region in bladder cancer cell lines: large homozygous deletion inactivate the CDKN2, CDKN2B and MTAP genes. Stadler WM, et al. **Urol Res** 1996; 24(4):239-44

Construction and characterization of virG (icsA)-deleted Escherichia coli K12-Shigella flexneri hybrid vaccine strains. Alexander WA, et al. **Vaccine** 1996 Aug; 14(11):1053-61

A quantitative study of the efficacy of a deletion mutant bovine herpesvirus-1 differential vaccine in reducing the establishment of latency by wildtype virus. Galeota JA, et al. **Vaccine** 1997 Feb;15(2):123-8

Evaluation of a phoP/phoQ-deleted, aroA-deleted live oral Salmonella typhi vaccine strain in human volunteers. Hohmann EL, et al. **Vaccine** 1996 Jan;14(1):19-24

Necrotic oophoritis in gilts associated with experimental inoculation of a viral gene-deletion mutant pseudorabies vaccine. Parker RF, et al. **Vet Pathol** 1997 May; 34(3):199-203

Losses at 3p common deletion sites in subtypes of kidney tumours: histopathological correlations. Hadaczek P, et al. **Virchows Arch** 1996 Sep;429(1):37-42

Complementation of deletion of the vaccinia virus E3L gene by the Escherichia coli RNase III gene. Shors T, et al. **Virology** 1997 Jan 6;227(1):77-87

Attenuation of B5R mutants of rabbitpox virus in vivo is related to impaired growth and not an enhanced host inflammatory response. Stern RJ, et al. **Virology** 1997 Jun 23;233(1):118-29

Analysis of mutations within the cytoplasmic domain of the Moloney murine leukemia virus transmembrane protein. Thomas A, et al. **Virology** 1997 Jan 20;227(2):305-13

Sequence variation in the early genes E1E4, E6 and E7 of human papilloma virus type 6. Krige D, et al. **Virus Res** 1997 Jun;49(2):187-91

Serial passage of human immunodeficiency virus type 1 generates misalignment deletions in non-essential accessory genes. Nakaya T, et al. **Virus Res** 1996 Dec;46(1-2):139-47

Construction of a yeast strain deleted for the TRP1 promoter and coding region that enhances the efficiency of the polymerase chain reaction-disruption method. Baudin-Baillieu A, et al. **Yeast** 1997 Mar 30;13(4):353-6

Alterations in the equine herpesvirus type-1 (EHV-1) strain RacH during attenuation. Hübert PH, et al. **Zentralbl Veterinarmed [B]** 1996 Mar;43(1):1-14

[Relation between loss of heterozygosity at APC and MCC genetic loci and biological behaviour of gastric carcinoma] Liu B, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan; 18(1):3-5 (Eng. Abstr.) **(Chi)**

[Cloning, expression and characterization of HIV-1 gp60 partially or completely deleted in the V3 loop] Lavallée C, et al. **C R Acad Sci III** 1996 Nov;319(11):983-90 (Eng. Abstr.) **(Fre)**

[Detailed deletion map of chromosomal arm 9q in esophageal squamous cell carcinoma] Miura K, et al. **Nippon Rinsho** 1996 Apr;54(4):986-91 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Allelic chromosomal deletion using microsatellite polymorphism—the clue to the positional cloning of the tumor suppressor genes responsible for gastric carcinoma] Sato J, et al. **Nippon Rinsho** 1996 Apr;54(4):992-5 (7 ref.) (Eng. Abstr.) **(Jpn)**

[A case of hereditary neuropathy with liability to pressure palsies (HNPP) with diabetes mellitus] Yasuda T, et al. **No To Shinkei** 1996 Aug;48(8):747-51 (Eng. Abstr.) **(Jpn)**

[Difference of new mutation rates in dystrophin gene between deletion and duplication mutation in Duchenne and Becker muscular dystrophy] Kawamura J, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):212-7 (Eng. Abstr.) **(Jpn)**

[Smith-Magenis syndrome] Teraoka M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):224-6 (14 ref.) **(Jpn)**

[Miller-Dieker syndrome] Yokoyama Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):217-9 (10 ref.) **(Jpn)**

[A nested deletion method for cosmid DNA using the bacteriophage T3 in vitro packaging system] Kawarabayasi Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Jun; 42(8):1327-31 (6 ref.) **(Jpn)**

[The "Indian deletion" in the hypervariable segment II of mitochondrial DNA is absent in representatives of the native population of Northeastern Asia] Derenko MV, et al. **Genetika** 1996 Jun;32(6):854-5 (Eng. Abstr.) **(Rus)**

[Deletion analysis of the dystrophin gene in patients with Duchenne's muscular dystrophy in Tajikistan] Odinokova ON, et al. **Genetika** 1996 Oct;32(10):1392-5 (Eng. Abstr.) **(Rus)**

[Catch-22: current implication of the microdeletion in 22q11] del Campo Casanelles M, et al. **An Esp Pediatr** 1996 Oct; 45(4):341-5 (33 ref.) **(Spa)**

[Rearrangement of the mitochondrial DNA in Kearns-Sayre syndrome: is it necessary to differentiate deletions from duplications or polymerization?] Barrientos A, et al. **Neurologia** 1996 Aug-Sep;11(7):257-60 (10 ref.) **(Spa)**

GENE DOSAGE

Why is there no diploid overdose effect in Prader-Willi syndrome due to uniparental disomy? Smith A. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):179-89 (72 ref.)

Identification of proximal spinal muscular atrophy carriers and patients by analysis of SMNT and SMNC gene copy number. McAndrew PE, et al. **Am J Hum Genet** 1997 Jun; 60(6):1411-22

Allele doses of apolipoprotein E type epsilon 4 in sporadic late-onset Alzheimer's disease. Lucotte G, et al. **Am J Med Genet** 1995 Dec 18;60(6):566-9

Expression of an Ig VH gene, 51p1, is proportional to its germline gene copy number. Sasso EH, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:478-80

Sequence and copy number of the Xanthomonas campestris pv. campestris gene encoding 16S rRNA. Lin NT, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):276-80

Effects of altered glucokinase gene copy number on blood glucose homoeostasis. Niswender KD, et al. **Biochem Soc Trans** 1997 Feb;25(1):113-7 (34 ref.)

Cu,Zn-superoxide dismutase gene dosage and cell resistance to oxidative stress: a review. Peskin AV. **Biosci Rep** 1997 Feb;17(1):85-9 (54 ref.)

PCR/RFLP assay for copy number of mutant and wild-type alleles. Finch JS, et al. **Biotechniques** 1996 Dec; 21(6):1055-60

Detection of single-copy sequences with digoxigenin-labeled probes in a complex plant genome after separation on pulsed-field gels. Lahaye T, et al. **Biotechniques** 1996 Dec; 21(6):1067-70, 1072

Evidence for divergence of DNA copy number changes in serous, mucinous and endometrioid ovarian carcinomas. Tapper J, et al. **Br J Cancer** 1997;75(12):1782-7

Abeta1-40 but not Abeta1-42 levels in cortex correlate with apolipoprotein E epsilon4 allele dosage in sporadic Alzheimer's disease. Ishii K, et al. **Brain Res** 1997 Feb 14; 748(1-2):250-2

A gene dosage effect is responsible for high overexpression of the MUC1 gene observed in human breast tumors. Bièche I, et al. **Cancer Genet Cytogenet** 1997 Oct 1; 98(1):75-80

roX1 RNA paints the X chromosome of male Drosophila and is regulated by the dosage compensation system. Meller VH, et al. **Cell** 1997 Feb 21;88(4):445-57

Timing of differential amplification of macronucleus-destined sequences during macronuclear development in the hypotrichous ciliate Euplotes crassus. Dönhoff T, et al. **Chromosoma** 1996 Sep;105(3):172-9

Use of microgenomic technology for analysis of alterations in DNA copy number and gene expression in malignant melanoma. Trent JM, et al. **Clin Exp Immunol** 1997 Jan; 107 Suppl 1:33-40

Additional copies of the mitochondrial Ef-Tu and aspartyl-tRNA synthetase genes can compensate for a mutation affecting the maturation of the mitochondrial tRNAAsp. Rinaldi T, et al. **Curr Genet** 1997 Jun; 31(6):494-6

Competitive-differential polymerase chain reaction for gene dosage estimation of erbB-1 (egfr), erbB-2, and erbB-3 oncogenes. Roetger A, et al. **DNA Cell Biol** 1997 Apr; 16(4):443-8

Mice heterozygous for a deletion of the tumor necrosis factor-alpha and lymphotoxin-alpha genes: biological importance of a nonlinear response of tumor necrosis factor-alpha to gene dosage. Amiot F, et al. **Eur J Immunol** 1997 Apr;27(4):1035-42

Improved methods for in situ enzymatic amplification and detection of low copy number genes in bacteria. Jacobs D, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):65-73

Plasmid vectors for gram-positive bacteria switching from high to low copy number. Renault P, et al. **Gene** 1996 Dec 12;183(1-2):175-82

High copy number integration into the ribosomal DNA of the yeast Phaffia rhodozyma. Wery J, et al. **Gene** 1997 Jan 3;184(1):89-97

17q12-21 amplicon, a novel recurrent genetic change in intestinal type of gastric carcinoma: a comparative genomic hybridization study. Kokkola A, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):38-43

Transduction of low-copy number plasmids by bacteriophage P22. Mann BA, et al. **Genetics** 1997 Jun;146(2):447-56

Aberrant FGF-2, FGF-3, FGF-4 and C-erb-B2 gene copy number in human ovarian, breast and endometrial tumours. Schmitt JF, et al. **Growth Factors** 1996;13(1-2):19-35

Relationship of genotype to phenotype in fibroblast-derived transmitochondrial cell lines carrying the 3243 mutation associated with the MELAS encephalomyopathy: shift towards mutant genotype and role of mtDNA copy number. Bentlage HA, et al. **Hum Mol Genet** 1996 Feb; 5(2):197-205

Analysis of CAG repeat of the Machado-Joseph gene in human, chimpanzee and monkey populations: a variant nucleotide is associated with the number of CAG repeats. Limprasert P, et al. **Hum Mol Genet** 1996 Feb;5(2):207-13

Absence of PMP22 coding region mutations in CMT1A duplication patients: further evidence supporting gene dosage as a mechanism for Charcot-Marie-Tooth disease type 1A. Warner LE, et al. **Hum Mutat** 1996;8(4):362-5

GENE DOSAGE

The use of crude tissue section lysates for PCR assessment of gene copy number with human tumour biopsy samples. Schmitt JF, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):217–30

Ablation of the murine alpha myosin heavy chain gene leads to dosage effects and functional deficits in the heart. Jones WK, et al. **J Clin Invest** 1996 Oct 15;98(8):1906–17

Accurate diagnosis of carriers of deletions and duplications in Duchenne/Becker muscular dystrophy by fluorescent dosage analysis. Yau SC, et al. **J Med Genet** 1996 Jul; 33(7):550–8

Molecular cloning of a preprohormone from Hydra magnipapillata containing multiple copies of Hydra-L Wamide (Leu-Trp-NH2) neuropeptides: evidence for processing at Ser and Asn residues. Leviev I, et al. **J Neurochem** 1997 Mar;68(3):1319–25

Sensitivity to jerky gene dosage underlies epileptic seizures in mice. Donovan GP, et al. **J Neurosci** 1997 Jun 15; 17(12):4562–9

Impaired differentiation of Schwann cells in transgenic mice with increased PMP22 gene dosage. Magyar JP, et al. **J Neurosci** 1996 Sep 1;16(17):5351–60

Chromosomal breakpoints and changes in DNA copy number in refractory acute myeloid leukemia. El-Rifai W, et al. **Leukemia** 1997 Jul;11(7):958–63

Single copy Babesia microti hsp70. Jie HB, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):241–6

Assessment of pfmdr 1 gene copy number by tandem competitive polymerase chain reaction. Price R, et al. **Mol Biochem Parasitol** 1997 Apr;85(2):161–9

A trans-acting modifier causing extensive overexpression of genes in Drosophila melanogaster. Bhadra U, et al. **Mol Gen Genet** 1997 May;254(6):621–34

Measuring the toxic effects of high gene dosage on yeast cells. Daniel J. **Mol Gen Genet** 1996 Dec 13;253(3):393–6

Ribosomal RNA gene dosage in marine bacteria. Kerkhof L, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):260–7

Growing interest in Turner syndrome [news; comment] Zinn AR. **Nat Genet** 1997 May;16(1):3–4. Comment on: Nat Genet 1997 May;16(1):54–63.

Regional cerebral glucose utilization is modulated by the dosage of apolipoprotein E type 4 allele and alpha1-antichymotrypsin type A allele in Alzheimer's disease. Higuchi M, et al. **Neuroreport** 1997 Aug 18; 8(12):2639–43

Cell death of oligodendrocytes or demyelination induced by overexpression of proteolipid protein depending on expressed gene dosage. Inoue Y, et al. **Neurosci Res** 1996 Jun;25(2):161–72

Chromosome 17 copy numbers and incidence of p 53 gene deletion in gastric cancer cells. Dual color fluorescence in situ hybridization analysis. Suzuki S, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb;64(1):22–9

Single-copy transgenic mice with chosen-site integration [see comments] Bronson SK, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9067–72. Comment in: Proc Natl Acad Sci U S A 1996 Aug 20;93(17):8824–8.

[X chromosome inactivation and XIST] Sakai K. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2296–305 (70 ref.) **(Jpn)**

[Expression of the mutant gene mi in mice: white spotting pattern] Koniukhov BV, et al. **Genetika** 1996 Nov; 32(11):1521–7 (Eng. Abstr.) **(Rus)**

GENE DUPLICATION see **MULTIGENE FAMILY**

GENE EXPRESSION

see related
PHENOTYPE

Imprinting and transgenerational modulation of gene expression; human growth as a model. Pembrey M. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):111–25 (26 ref.)

mRNA expression, measured by quantitative reverse transcriptase polymerase chain reaction, of five putative drug resistance parameters, in normal and leukaemic peripheral blood and bone marrow. Lohri A, et al. **Acta Haematol** 1997;98(1):1–7

Production and gene expression of IL-8-like cytokine GRO/CINC-1 in rat nasal mucosa. Himi T, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):123–7

Interleukin-1 alpha, interleukin-1 beta and interleukin-8 gene expression in human aural cholesteatomas. Kim CS, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):302–6

Molecular cloning and expression of angiotensin II type 2 receptor gene. Ichiki T, et al. **Adv Exp Med Biol** 1996; 396:145–52 (53 ref.)

Molecular studies of visna virus gene expression: analysis of envelope gene expression in transgenic sheep. Clements JE, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):421–3 (65 ref.)

Expression of genes from the human active and inactive X chromosomes [see comments] Brown CJ, et al. **Am J Hum Genet** 1997 Jun;60(6):1333–43. Comment in: Am J Hum Genet 1997 Jun;60(6):1312–5.

The great escape [editorial; comment] Disteche CM. **Am J Hum Genet** 1997 Jun;60(6):1312–5 (40 ref.). Comment on: Am J Hum Genet 1997 Jun;60(6):1333–43.

Characterization of two mutations associated with epimerase-deficiency galactosemia, by use of a yeast expression system for human UDP-galactose-4-epimerase. Quimby BB, et al. **Am J Hum Genet** 1997 Sep;61(3):590–8

Clinical application of molecular biology: a study of allograft rejection with polymerase chain reaction. Suthanthiran M. **Am J Med Sci** 1997 May;313(5):264–7

There is an increase in expression of the cytotoxic T-lymphocyte antigen-2 alpha gene during pregnancy. Campo MA, et al. **Am J Obstet Gynecol** 1996 May; 174(5):1605–7

Oxytocin receptors in bovine cervix during pregnancy and parturition: gene expression and cellular localization. Fuchs AR, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1654–60

Beta-adrenergic receptor subtype gene expression in timed-pregnant rat myometrium. Principe D, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):349–57

Expression of beta-adrenergic receptor kinase subtypes in the pregnant rat myometrium. Ruzycky AL, et al. **Am J Obstet Gynecol** 1997 May;176(5):1077–83

Lysyl oxidase gene expression in the stromal reaction to in situ and invasive ductal breast carcinoma. Peyrol S, et al. **Am J Pathol** 1997 Feb;150(2):497–507

Effects of chronic hypokalemia on renal expression of the "gastric" H(+)-K(+)-ATPase alpha-subunit gene. Ahn KY, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):F557–66

Chronic hypokalemia enhances expression of the H(+)-K(+)-ATPase alpha 2-subunit gene in renal medulla. Ahn KY, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F314–21

Elevated pressure stimulates protooncogene expression in isolated mesenteric arteries. Allen SP, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1517–23

Altered energy balance and cytokine gene expression in a murine model of chronic infection with Toxoplasma gondii. Arsenijevic D, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E908–17

Cold-induced expression of the metallothionein-1 gene in brown adipose tissue of rats. Beattie JH, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R971–7

Age-related changes in the diurnal rhythm of CRH gene expression in the paraventricular nuclei. Cai A, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E238–43

Effect of hypothyroidism on adenylyl cyclase activity and subtype gene expression in brown adipose tissue. Chaudhry A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R762–7

Stable expression of a human HSP70 gene in a rat myogenic cell line confers protection against endotoxin. Chi SH, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1017–21

Impaired cAMP-mediated gene expression and decreased cAMP response element binding protein in senescent cells. Chin JH, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C362–71

Activation of a novel metabolic gene regulatory pathway by chronic stimulation of skeletal muscle. Cresci S, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1413–20

Changes in surfactant protein gene expression in a neonatal rabbit model of hyperoxia-induced fibrosis. D'Angio CT, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L720–30

Cryptdin gene expression in developing mouse small intestine. Darmoul D, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):G197–206

Positional specificity of defensin gene expression reveals Paneth cell heterogeneity in mouse small intestine. Darmoul D, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G68–74

NH2-terminal-inserted myosin II heavy chain is expressed in smooth muscle of small muscular arteries. DiSanto ME, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1532–42

Regulation of ANG II-receptor subtype and its gene expression in adrenal gland. Du Y, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H440–6

Bidirectional effects of hepatic ischemia/reperfusion on E. coli-induced TNF-alpha gene expression. Epperly NA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R289–97

Distinct expression of heat shock and acute phase genes during regional hepatic ischemia-reperfusion. Gingalewski C, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R634–40

Endothelin ETA receptor regulates signaling and ANF gene expression via multiple G protein-linked pathways. Hilal-Dandan R, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H130–7

Galanin gene expression in radiothyroidectomy-induced thyrotroph adenomas. Hyde JF, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E24–30

Adenosine A1 receptor and its gene expression in ventricles from spontaneously hypertensive rats. Kobayashi S, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R704–9

Novel mouse embryonic renal marker gene products differentially expressed during kidney development. Kretzler M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F770–7

Chronic hypoxia upregulates endothelial and inducible NO synthase gene and protein expression in rat lung. Le Cras TD, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):L164–70

Brief hypoxic stress downregulates E. coli-induced IL-1 alpha and IL-1 beta gene expression in perfused liver. Matuschak GM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1311–8

Pregnancy augments uteroplacental vascular endothelial growth factor gene expression and vasodilator effects. Ni Y, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H938–44

Temporal and spatial expression pattern of the angiotensinogen gene in mice and rats. Niimura F, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R142–7

Overexpression of R domain eliminates cAMP-stimulated Cl- secretion in 9/HTEo- cells in culture. Perez A, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):L85–92

Phorbol 12-myristate 13-acetate alters SR Ca(2+)-ATPase gene expression in cultured neonatal rat heart cells. Qi M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1031–9

Enterocytic gene expression in intestinal adaptation: evidence for a specific cellular response. Rubin DC, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G143–52

Pulmonary endothelial NO synthase gene expression is decreased in fetal lambs with pulmonary hypertension. Shaul PW, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L1005–12

In vitro analysis of rat surfactant protein A gene expression. Stuempfle KJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L504–16

Modulation of tissue angiotensinogen gene expression in genetically obese hypertensive rats. Tamura K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1704–11

Early increase in expression of surfactant protein A gene in type II cells from silica-treated rats. Viviano CJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L395–400

Polyamines are necessary for normal expression of the transforming growth factor-beta gene during cell migration. Wang JY, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G713–20

Dopaminergic receptors and angiotensinogen gene expression in opossum kidney cells. Wang TT, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R519–27

Desmin gene expression in cardiac myocytes is responsive to contractile activity and stretch. Watson PA, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1228–35

Selective and transient in vitro effects of heat shock on alveolar type II cell gene expression. Wong HR, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L132–8

Disparate expression of the AVP gene in Sabra hypertension-prone and hypertension-resistant rats. Yagil C, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F806–13

Identification of novel inducible genes in airway epithelium. Schwiebert LM, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):106–13

A generic method for the production of cell lines expressing high levels of 7-transmembrane receptors. Koller KJ, et al. **Anal Biochem** 1997 Jul 15;250(1):51–60

Pitfalls in the use of several "housekeeping" genes as standards for quantitation of mRNA: the example of thyroid cells. Savonet V, et al. **Anal Biochem** 1997 Apr 5;247(1):165–7

Identification of genes specifically expressed by Mycobacterium haemophilum in association with human epithelial cells. Fischer LJ, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:277–9

Differentially expressed genes of Mycobacterium tuberculosis. Marston BJ, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:32–41 (51 ref.)

The growth-hormone-releasing hormone receptor: signal transduction, gene expression, and physiological function in growth regulation. Mayo KE, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:184–203 (35 ref.)

The role of fatty acids in gene expression: health implications. Simopoulos AP. **Ann Nutr Metab** 1996;40(6):303–11 (44 ref.)

Factors influencing disease expression in hemochromatosis. Crawford DH, et al. **Annu Rev Nutr** 1996;16:139–60 (74 ref.)

Simultaneous determination of gene expression and bacterial identity in single cells in defined mixtures of pure cultures. Poulsen LK, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3698–702

Cloning and characterization of two rhamnogalacturonan hydrolase genes from Aspergillus niger. Suykerbuyk ME, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2507–15

Expression of the BE-20 epididymal protein gene: in situ hybridization. Xu WD, et al. **Arch Androl** 1997 Jan-Feb; 38(1):1–6

Human hepatic microsomal epoxide hydrolase: comparative analysis of polymorphic expression. Hassett C, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):275–83

Expression, purification, and initial characterization of human Yes protein tyrosine kinase from a bacterial expression system. Sun G, et al. **Arch Biochem Biophys** 1997 Sep 1; 345(1):135–42

Betaine-homocysteine methyltransferase expression in porcine and human tissues and chromosomal localization of the human gene. Sunden SLF, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):171–4

Basal cell nevus syndrome and dysplastic nevus syndrome: investigation of gene expression by differential hybridization. Rump A, et al. **Arch Dermatol Res** 1996 Jun; 288(7):399–401

Expression of 72-kDa gelatinase (matrix metalloproteinase-2) in the developing mouse craniofacial complex. Iamaroon A, et al. **Arch Oral Biol** 1996 Dec;41(12):1109–19

Interleukin-6 and interleukin-8 protein and gene expression in human arterial atherosclerotic wall. Rus HG, et al. **Atherosclerosis** 1996 Dec 20;127(2):263–71

Expression of p34cdc2 protein kinase and p53 in supraglottic carcinomas. Yamamoto Y, et al. **Auris Nasus Larynx** 1996; 23:105–10

Myocardial angiotensin receptor type 1 gene expression in a rat model of cardiac volume overload. Bauer P, et al. **Basic Res Cardiol** 1997 Jun;92(3):139–46

Molecular cloning and expression of 56-58 KD antigen

associated with transplant coronary artery disease. Ationu A, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):716–8

Osteocalcin (BGP), gene expression, and protein production by marrow stromal adipocytes. Benayahu D, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):442–6

Aquaporin 1 expression during the cell cycle in A5 cells. Delporte C, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):223–8

Cell-type-specific modulation of Hox gene expression by members of the TGF-beta superfamily: a comparison between human osteosarcoma and neuroblastoma cell lines. Kloen P, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):365–9

Interference with c-myc expression and RB phosphorylation during TNF-mediated growth arrest in human endothelial cells. López-Marure R, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):819–24

Cytoplasmic gene expression system enhances the efficiency of cationic liposome-mediated in vivo gene transfer into mouse brain. Mizuguchi H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):15–8

Comparison of three nonviral transfection methods for foreign gene expression in early chicken embryos in ovo. Muramatsu T, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):376–80

Foreign gene expression in the mouse testis by localized in vivo gene transfer. Muramatsu T, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):45–9

Gene expressions of transferred human chromosome 8 in mouse cell lines. Suzuki N, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):315–9

Selective clinical ultrasound signals mediate differential gene transfer and expression in two human prostate cancer cell lines: LnCap and PC-3. Tata DB, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):64–7

Changes in BRCA2 expression during progression of the cell cycle. Wang SC, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):247–51

Cloning and expression of mouse UDP–GalNAc:polypeptide N-acetylgalactosaminyltransferase-T3. Zara J, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):38–44

Influence of Mycobacterium tuberculosis catalase gene (KatG) expression on nitric oxide production and the intracellular growth of transfected Mycobacterium smegmatis strains within murine macrophages. Fazal N. **Biochem Mol Biol Int** 1997 Jun;42(1):135–42

Expression of mRNA encoding cAMP-specific phosphodiesterase isoforms in rat parotid glands. Imai A, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1175–81

Baculovirus-mediated high level expression of a human thiopurine methyl transferase. Jackson H, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):357–64

Characterization of gene expression following intranasal immunization with nucleic acid. Barnfield C, et al. **Biochem Soc Trans** 1997 May;25(2):335S

Expression of the ob (obese) gene during lactation in mice. Rubio-Aliaga I, et al. **Biochem Soc Trans** 1996 May; 24(2):157S

Correction of the dystrophic phenotype by germ-line gene therapy with recombinant dystrophin cDNAs in mdx mice. Wells DJ, et al. **Biochem Soc Trans** 1996 May;24(2):279S

Leukocyte 12-lipoxygenase: expression, purification, and investigation of the role of methionine residues in turnover-dependent inactivation and 5,8,11,14-eicosatetraynoic acid inhibition. Richards KM, et al. **Biochemistry** 1997 Jun 3;36(22):6692–9

COS-1 cell expression and one-step affinity protein purification and activity of epitope-tagged human erythropoietin and of site-directed mutants. Bill RM, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):13–20

Altered expression of annexin II in human B-cell lymphoma cell lines. Chiang Y, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):295–301

Posttranscriptional Control of Gene Expression: The Regulatory Role of RNA. Proceedings of a meeting. Hakone, Japan, November 10–14, 1996. **Biochimie** 1996; 78(11–12):901–1122

Two isozymes of P450nor of Cylindrocarpon tonkinense: molecular cloning of the cDNAs and genes, expressions in the yeast, and the putative NAD(P)H-binding site. Kudo T, et al. **Biochimie** 1996;78(8–9):792–9

Transcription factor C/EBPalpha: novel sites of expression and cloning of the human gene. Swart GW, et al. **Biol Chem** 1997 May;378(5):373–9

Differential expression of fos and jun family members during murine postnatal intestinal development. Blais S, et al. **Biol Neonate** 1996;69(5):342–9

Protective effect of transfection with secretable superoxide dismutase (SOD) (a signal sequence-SOD fusion protein coding cDNA) expression vector on superoxide anion-induced cytotoxicity in vitro. Komada F, et al. **Biol Pharm Bull** 1997 May;20(5):530–6

Cloning and bacterial expression of a gene encoding ribosome-inactivating proteins, karasurin-A and karasurin-C, from Trichosanthes kirilowii var. japonica. Mizukami H, et al. **Biol Pharm Bull** 1997 Jun;20(6):711–3

Steroidogenic factor-1 expression is transiently repressed and c-myc expression and deoxyribonucleic acid synthesis are induced in rat granulosa cells during the periovulatory period. Agarwal P, et al. **Biol Reprod** 1996 Dec; 55(6):1271–5

Retinoic acid receptor alpha gene expression in the rat testis: potential role during the prophase of meiosis and in the transition from round to elongating spermatids. Akmal KM, et al. **Biol Reprod** 1997 Feb;56(2):549–56

Novel expression of functional luteinizing hormone/chorionic gonadotropin receptors in cultured glial cells from neonatal rat brains. AL-Hader AA, et al. **Biol Reprod** 1997 Feb;56(2):501–7

Identification, characterization, and expression of a new prolactin-like molecule in the hamster placenta. Barnes SW, et al. **Biol Reprod** 1996 Aug;55(2):370–8

Relaxin-like factor gene is highly expressed in the bovine ovary of the cycle and pregnancy: sequence and messenger ribonucleic acid analysis [published erratum appears in Biol Reprod 1997 Mar;56(3):788] Bathgate R, et al. **Biol Reprod** 1996 Dec;55(6):1452–7

Expression of messenger ribonucleic acids of insulin-like growth factor binding protein-2, -4, and -5 in the ovine ovary: localization and changes during growth and atresia of antral follicles. Besnard N, et al. **Biol Reprod** 1996 Dec; 55(6):1356–67

Spatial and temporal analyses of integrin and Muc-1 expression in porcine uterine epithelium and trophectoderm in vivo. Bowen JA, et al. **Biol Reprod** 1996 Nov; 55(5):1098–106

Expression and function of a scavenger lipoprotein pathway in porcine luteal cells. Brannian JD. **Biol Reprod** 1997 Jan; 56(1):221–8

Expression of inhibin alpha and inhibin/activin beta A subunits in the granulosa layer of the large preovulatory follicles of the hen. Chen CC, et al. **Biol Reprod** 1996 Aug; 55(2):450–4

A binding site for steroidogenic factor-1 is part of a complex enhancer that mediates expression of the murine gonadotropin-releasing hormone receptor gene. Duval DL, et al. **Biol Reprod** 1997 Jan;56(1):160–8

Oxytocin and oxytocin receptor expression in reproductive tissues of the male marmoset monkey. Einspanier A, et al. **Biol Reprod** 1997 Feb;56(2):416–22

Ontogeny of estrogen receptor messenger ribonucleic acid expression in the postnatal rat uterus. Fishman RB, et al. **Biol Reprod** 1996 Dec;55(6):1221–30

Oxytocin receptors in bovine cervix: distribution and gene expression during the estrous cycle. Fuchs AR, et al. **Biol Reprod** 1996 Mar;54(3):700–8

Expression of HLA class I genes in meiotic and post-meiotic human spermatogenic cells. Guillaudeux T, et al. **Biol Reprod** 1996 Jul;55(1):99–110

Reduced fecundity in insulin-like growth factor-binding protein-1 transgenic mice. Huang H, et al. **Biol Reprod** 1997 Jan;56(1):284–9

Characterization of a chicken luteinizing hormone receptor (cLH-R) complementary deoxyribonucleic acid, and expression of cLH-R messenger ribonucleic acid in the ovary. Johnson AL, et al. **Biol Reprod** 1996 Aug; 55(2):304–9

Uterine growth, cell proliferation, and c-fos proto-oncogene expression throughout the estrous cycle in ewes. Johnson ML, et al. **Biol Reprod** 1997 Feb;56(2):393–401

Overexpression of androgen-binding protein/sex hormone-binding globulin in male transgenic mice: tissue distribution and phenotypic disorders. Joseph DR, et al. **Biol Reprod** 1997 Jan;56(1):21–32

Expression and distribution of androgen-binding protein/sex hormone-binding globulin in the female rodent reproductive system. Joseph DR, et al. **Biol Reprod** 1997 Jan;56(1):14–20

Adenovirus-mediated gene transfer by perivitelline microinjection of mouse, rat, and cow embryos. Kubisch HM, et al. **Biol Reprod** 1997 Jan;56(1):119–24

Coordinate developmental expression of genes regulating sterol economy and cholesterol side-chain cleavage in the porcine ovary. LaVoie HA, et al. **Biol Reprod** 1997 Aug; 57(2):402–7

Expression of epithelial cadherin in the developing and adult pig ovary. Ryan PL, et al. **Biol Reprod** 1996 Nov; 55(5):1091–7

Expression of luteinizing hormone/human chorionic gonadotropin receptor gene in benign prostatic hyperplasia and in prostate carcinoma in humans. Tao YX, et al. **Biol Reprod** 1997 Jan;56(1):67–72

Expression of vascular endothelial growth factor and placenta growth factor in human placenta. Vuorela P, et al. **Biol Reprod** 1997 Feb;56(2):489–94

Variable expression of cellular retinol- and cellular retinoic acid-binding proteins in the rat uterus and ovary during the estrous cycle. Wardlaw SA, et al. **Biol Reprod** 1997 Jan;56(1):125–32

Variation in expression of hsp27 messenger ribonucleic acid during the cycle of the seminiferous epithelium and co-localization of hsp27 and microfilaments in Sertoli cells of the rat. Welsh MJ, et al. **Biol Reprod** 1996 Jul; 55(1):141–51

Ontogeny of gene expression in the gonadotroph of the developing female rat. Wilson ME, et al. **Biol Reprod** 1997 Feb;56(2):563–8

Pattern of 11 beta-hydroxysteroid dehydrogenase type 1 messenger ribonucleic acid expression in the ovine uterus during the estrous cycle and pregnancy. Yang K, et al. **Biol Reprod** 1996 Dec;55(6):1231–6

Molecular cloning, tissue distribution, and expression of the prolactin receptor during various reproductive states in Meleagris gallopavo. Zhou JF, et al. **Biol Reprod** 1996 Nov; 55(5):1081–90

EGFP-containing vector system that facilitates stable and transient expression assays. Alexander L, et al. **Biotechniques** 1997 Jul;23(1):64–6

Expression of the highly toxic centromere binding protein CENP-B in E. coli using the pET system in the absence of the inducer IPTG. Bocanegra JA, et al. **Biotechniques** 1997 May;22(5):798–800, 802

Low-cost system for real-time monitoring of luciferase gene expression. Gailey PC, et al. **Biotechniques** 1997 Mar; 22(3):528–34

Use of flow cytometry and RT-PCR for detecting gene expression by single cells. Gaynor EM, et al. **Biotechniques** 1996 Aug;21(2):286–91

In vivo labeling of over-expressed recombinant proteins in E. coli. Giovane C, et al. **Biotechniques** 1997 May; 22(5):796–8

Expression of foreign proteins on the surface of Autographa californica nuclear polyhedrosis virus. Grabherr R, et al. **Biotechniques** 1997 Apr;22(4):730–5

pPE1000: a versatile vector for the expression of epitope-tagged foreign proteins in transgenic plants. Hancock KR, et al. **Biotechniques** 1997 May;22(5):861–2, 865

Microdissection RT-PCR analysis of gene expression in pathologically defined frozen tissue sections. Hiller T, et al. **Biotechniques** 1996 Jul;21(1):38–40, 42, 44

Family of plasmid vectors for the expression of beta-galactosidase fusion proteins in eukaryotic cells. Ivics Z, et al. **Biotechniques** 1997 Feb;22(2):254–6, 258

Identification of differentially expressed genes using minute amounts of RNA. Leygue ER, et al. **Biotechniques** 1996 Dec;21(6):1008–10, 1012

Determination of fibroblast growth factor receptor expression in mouse, rat and human samples using a single primer pair. McEwen DG, et al. **Biotechniques** 1997 Jun; 22(6):1068–70

Quantitative RT-PCR for human Fas (CD95) expression. Mitra D, et al. **Biotechniques** 1997 Mar;22(3):442–6

Solid-phase method for differential display of genes expressed in hematopoietic stem cells. Røsok O, et al. **Biotechniques** 1996 Jul;21(1):114–21

PCR-amplified cDNA probes for verification of differentially expressed genes. Ross R, et al. **Biotechniques** 1997 May;22(5):894–7

Expression of matrix proteins during the development of mineralized tissues. Sommer B, et al. **Bone** 1996 Oct; 19(4):371–80

Apoptosis and proliferation in thyroid carcinoma: correlation with bcl-2 and p53 protein expression. Basolo F, et al. **Br J Cancer** 1997;75(4):537–41

Dissection of tumour and host cells from target organs of metastasis for testing gene expression directly ex vivo. Rocha M, et al. **Br J Cancer** 1996 Oct;74(8):1216–22

Hypothyroidism coordinately and transiently affects myelin protein gene expression in most rat brain regions during postnatal development. Ibarrola N, et al. **Brain Res** 1997 Mar 28;752(1–2):285–93

Bcl-2 prevents hippocampal cell death induced by the neuroleptic drug haloperidol. Lezoualc'h F, et al. **Brain Res** 1996 Oct 28;738(1):176–9

A novel hamster prion protein mRNA contains an extra exon: increased expression in scrapie. Li G, et al. **Brain Res** 1997 Mar 21;751(2):265–74

Decreased gene expression of neuronal nitric oxide synthase in hypothalamus and brainstem of rats in heart failure. Patel KP, et al. **Brain Res** 1996 Sep 23;734(1–2):109–15

Cell type-specific expression of the mouse peripherin gene requires both upstream and intragenic sequences in transgenic mouse embryos. Leconte L, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):1–9

Profile of glutamylated tubulin expression during cerebellar granule cell development in vitro. Przyborski SA, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):133–8

Quantitative gene expression of two types of glycine transporter in the rat central nervous system. Goebel DJ. **Brain Res Mol Brain Res** 1996 Aug;40(1):139–42

Localization of a 42-kDa inositol 1,3,4,5-tetrakisphosphate receptor protein in retina and change in expression after optic nerve injury. Kreutz MR, et al. **Brain Res Mol Brain Res** 1997 May;45(2):283–93

Differential proopiomelanocortin gene expression in the medial basal hypothalamus of rats during pregnancy and lactation. Mann PE, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):9–16

Differential expression of c-fos, Hsp70 and Hsp27 after photothrombotic injury in the rat brain. Plumier JC, et al. **Brain Res Mol Brain Res** 1997 May;45(2):239–46

Differential effects of axotomy on the in vivo synthesis of the stress-inducible and constitutive 70-kDa heat-shock proteins in rat dorsal root ganglia. Tedeschi B, et al. **Brain Res Mol Brain Res** 1997 May;45(2):199–206

Diurnal expression of recoverin in the rat retina. Wiechmann AF, et al. **Brain Res Mol Brain Res** 1997 May;45(2):321–4

DNA damage inducible-gene expression following platinum treatment in human ovarian carcinoma cell lines. Delmastro DA, et al. **Cancer Chemother Pharmacol** 1997;39(3):245–53

Expression of an antisense transforming growth factor-beta1 transgene reduces tumorigenicity of EMT6 mammary tumor cells. Park JA, et al. **Cancer Gene Ther** 1997 Jan–Feb; 4(1):42–50

Effect of passage number on cellular response to DNA-damaging agents: cell survival and gene expression. Chang-Liu CM, et al. **Cancer Lett** 1997 Feb 26; 113(1-2):77-86

Identification of genes differentially expressed in association with metastatic potential of K-1735 murine melanoma by messenger RNA differential display. Hashimoto Y, et al. **Cancer Res** 1996 Nov 15;56(22):5266-71

Monoallelically expressed gene related to p53 at 1p36, a region frequently deleted in neuroblastoma and other human cancers. Kaghad M, et al. **Cell** 1997 Aug 22; 90(4):809-19

Characterization of the yeast transcriptome. Velculescu VE, et al. **Cell** 1997 Jan 24;88(2):243-51

Cloning and functional characterization of the chicken c-ros promoter. Chen J, et al. **Cell Growth Differ** 1995 Dec; 6(12):1523-30

Ras(leu61) blocks differentiation of transformable 3T3 L1 and C3H10T1/2-derived preadipocytes in a dose- and time-dependent manner. Raptis L, et al. **Cell Growth Differ** 1997 Jan;8(1):11-21

Differential expression of tubulin isotypes during the cell cycle. Dumontet C, et al. **Cell Motil Cytoskeleton** 1996; 35(1):49-58

Variation in expression of genes used for normalization of Northern blots after induction of cell proliferation. Goldsworthy SM, et al. **Cell Prolif** 1993 Nov;26(6):511-8

Co-transplantation of plasmid-transfected myoblasts and myotubes into rat brains enables high levels of gene expression long-term [letter] Wolff JA. **Cell Transplant** 1997 Jul-Aug;6(4):445

The use of isolated lung cells in in vitro pulmonary toxicology: studies of DNA damage, apoptosis and alteration of gene expression. Schwarze PE, et al. **Cent Eur J Public Health** 1996;4 Suppl:6-10

Cytokine gene expression profile of circulating CD4+ T cells in active pulmonary tuberculosis. Lai CK, et al. **Chest** 1997 Mar;111(3):606-11

Enhanced hippocampal corticotropin-releasing factor gene expression associated with memory consolidation and memory storage in rats. Lee EH, et al. **Chin J Physiol** 1996; 39(3):197-203

Enhancer stimulation unmasks latent gene transfer after adenovirus-mediated gene delivery into human vascular smooth muscle cells. Clesham GJ, et al. **Circ Res** 1996 Dec; 79(6):1188-95

Heart failure in rats causes changes in skeletal muscle morphology and gene expression that are not explained by reduced activity. Simonini A, et al. **Circ Res** 1996 Jul; 79(1):128-36

Regulation of fibrillar collagen gene expression and protein accumulation in volume-overloaded cardiac hypertrophy. Namba T, et al. **Circulation** 1997 May 20;95(10):2448-54

Avoidance of immune response prolongs expression of genes delivered to the adult rat myocardium by replication-defective adenovirus. Quiñones MJ, et al. **Circulation** 1996 Sep 15;94(6):1394-401

Human prostate-specific glandular kallikrein is expressed as an active and an inactive protein. Herrala A, et al. **Clin Chem** 1997 Feb;43(2):279-84

Minimal illegitimate levels of cytokeratin K19 expression in mononucleated blood cells detected by a reverse transcription PCR method (RT-PCR). López-Guerrero JA, et al. **Clin Chim Acta** 1997 Jul 4;263(1):105-16

Expression of the somatostatin gene in human astrocytoma cell lines. Mercure L, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):151-5

Isolation, cDNA cloning and expression of Lig v 1, the major allergen from privet pollen. Batanero E, et al. **Clin Exp Allergy** 1996 Dec;26(12):1401-10

Increased expression of histamine H1 receptor mRNA in allergic rhinitis. Iriyoshi N, et al. **Clin Exp Allergy** 1996 Apr;26(4):379-85

IL-13 over-expression in skin is not confined to IgE-mediated skin inflammation. Van der Ploeg I, et al. **Clin Exp Immunol** 1997 Sep;109(3):526-32

Biased expression of T cell receptor V beta genes in periodontitis patients. Yamazaki K, et al. **Clin Exp Immunol** 1996 Nov;106(2):329-35

Cell-specific protein and gene expression in the juxtaglomerular apparatus. Barajas L. **Clin Exp Pharmacol Physiol** 1997 Jul;24(7):520-6 (74 ref.)

An immunohistochemical analysis of p53 protein expression in pre-malignant and malignant tissues of the oral cavity. Rowley H, et al. **Clin Otolaryngol** 1997 Feb;22(1):23-9

Baculovirus-mediated expression of chicken growth hormone. Foster DN, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):233-9

Codon usage limitation in the expression of HIV-1 envelope glycoprotein. Haas J, et al. **Curr Biol** 1996 Mar 1; 6(3):315-24

In vitro tracking of IL-7 responsiveness and gene expression during commitment of bipotent B-cell/macrophage progenitors. Kee BL, et al. **Curr Biol** 1996 Sep 1; 6(9):1159-69

Mutations that suppress the thermosensitivity of green fluorescent protein. Siemering KR, et al. **Curr Biol** 1996 Dec 1;6(12):1653-63

Anterior primitive endoderm may be responsible for patterning the anterior neural plate in the mouse embryo. Thomas P, et al. **Curr Biol** 1996 Nov 1;6(11):1487-96

Extent and character of circadian gene expression in Drosophila melanogaster: identification of twenty oscillating mRNAs in the fly head. Van Gelder RN, et al. **Curr Biol** 1995 Dec 1;5(12):1424-36

Human T-cell lymphotropic virus type 1 can infect primary rat retinal glial cells and induce gene expression of inflammatory cytokines. Sato Y, et al. **Curr Eye Res** 1997 Aug;16(8):782-91

Expression systems. **Curr Opin Biotechnol** 1996 Oct; 7(5):565-80

Chimeric receptors as gene switches. Allgood VE, et al. **Curr Opin Biotechnol** 1997 Aug;8(4):474-9 (24 ref.)

Web alert. Expression systems. Makalowski W, et al. **Curr Opin Biotechnol** 1996 Oct;7(5):563

Nucleus and gene expression. **Curr Opin Cell Biol** 1996 Jun; 8(3):407-47

Bibliography. Current world literature. Chromosomes and expression mechanisms. **Curr Opin Genet Dev** 1997 Apr; 7(2):289-326

Chromosomes and expression mechanisms [editorial] Elgin SC, et al. **Curr Opin Genet Dev** 1997 Apr;7(2):149-51

The role of insulator elements in defining domains of gene expression. Geyer PK. **Curr Opin Genet Dev** 1997 Apr; 7(2):242-8 (49 ref.)

Web alert. Chromosomes and expression mechanisms. Miller A. **Curr Opin Genet Dev** 1997 Apr;7(2):288

The tissue-specific expression of lipoprotein lipase: implications for energy and lipoprotein metabolism. Zechner R. **Curr Opin Lipidol** 1997 Apr;8(2):77-88 (174 ref.)

Adeno-associated virus 2-mediated transduction and erythroid lineage-specific expression in human hematopoietic progenitor cells. Srivastava A, et al. **Curr Top Microbiol Immunol** 1996;218:93-117 (72 ref.)

Kinetics of cytokine gene expression in macrophage and endothelial cell lines following liposome encapsulated haemoglobin (LEH) treatment in vitro. Zhu XL, et al. **Cytokine** 1996 Jul;8(7):541-7

Rapid generation and flow cytometric analysis of stable GFP-expressing cells. Lybarger L, et al. **Cytometry** 1996 Nov 1;25(3):211-20

Skeletal and cardiac alpha-actin isoforms exhibit unanticipated temporal and tissue-specific gene expression patterns in developing avian limbs and embryos. Lin-Jones J, et al. **Dev Biol** 1997 Sep 15;189(2):322-34

Redistribution and increase in cortical inositol 1,4,5-trisphosphate receptors after meiotic maturation of the mouse oocyte. Mehlmann LM, et al. **Dev Biol** 1996 Dec 15;180(2):489-98

Spatial and temporal relationships between Shh, Fgf4, and Fgf8 gene expression at diverse signalling centers during mouse development. Bueno D, et al. **Dev Dyn** 1996 Nov; 207(3):291-9

Cloning and expression of Xenopus CCT gamma, a chaperonin subunit developmentally regulated in neural-derived and myogenic lineages. Dunn MK, et al. **Dev Dyn** 1996 Apr;205(4):387-94

Temporal colinearity in expression of anterior Hox genes in developing chick embryos. Gaunt SJ, et al. **Dev Dyn** 1996 Nov;207(3):270-80

Developmental expression of murine Beta-trace in embryos and adult animals suggests a function in maturation and maintenance of blood-tissue barriers. Hoffmann A, et al. **Dev Dyn** 1996 Nov;207(3):332-43

Expression patterns of Id1, Id2, and Id3 are highly related but distinct from that of Id4 during mouse embryogenesis. Jen Y, et al. **Dev Dyn** 1996 Nov;207(3):235-52

Differential expressions of collagen types IV, III, and I during the development of invasive trophoblasts in rats. Kitaoka M, et al. **Dev Dyn** 1996 Nov;207(3):319-31

Early chick limb cartilaginous elements possess polarizing activity and express hedgehog-related morphogenetic factors. Koyama E, et al. **Dev Dyn** 1996 Nov;207(3):344-54

Expression of an Msx homeobox gene in ascidians: insights into the archetypal chordate expression pattern. Ma L, et al. **Dev Dyn** 1996 Mar;205(3):308-18

New gene, nel, encoding a Mr 91 K protein with EGF-like repeats is strongly expressed in neural tissues of early stage chick embryos. Matsuhashi S, et al. **Dev Dyn** 1996 Oct; 207(2):233-4

Connexins and E-cadherin are differentially expressed during trophoblast invasion and placenta differentiation in the rat. Reuss B, et al. **Dev Dyn** 1996 Feb;205(2):172-82

argos Is required for projection of photoreceptor axons during optic lobe development in Drosophila. Sawamoto K, et al. **Dev Dyn** 1996 Feb;205(2):162-71

Isolation and characterization of mouse dishevelled-3. Tsang M, et al. **Dev Dyn** 1996 Nov;207(3):253-62

Age-dependent expression of the androgen receptor gene in the prostate and its implication in glandular differentiation and hyperplasia. Prins GS, et al. **Dev Genet** 1996;18(2):99-106

GFAP gene expression during development of astrocyte. Baba H, et al. **Dev Neurosci** 1997;19(1):49-57 (25 ref.)

Patterns of gene expression in the neural plate and neural tube subdivide the embryonic forebrain into transverse and longitudinal domains. Shimamura K, et al. **Dev Neurosci** 1997;19(1):88-96 (64 ref.)

Spatial and temporal patterns of c-kit-expressing cells in WlacZ/+ and WlacZ/WlacZ mouse embryos. Bernex F, et al. **Development** 1996 Oct;122(10):3023-33

Early gene expression along the animal-vegetal axis in sea urchin embryoids and grafted embryos. Ghiglione C, et al. **Development** 1996 Oct;122(10):3067-74

Heterologous expression and characterization of rat liver glucokinase regulatory protein. Mookhtiar KA, et al. **Diabetes** 1996 Dec;45(12):1670-7

Lack of hepatocyte growth factor receptor (c-met) gene expression in fulminant hepatic failure livers before transplantation. Ljubimova JY, et al. **Dig Dis Sci** 1997 Aug; 42(8):1675-80

Regulation of cholecystokinin release and transcription in a rat without gene expression of cholecystokinin-A receptor. Miyasaka K, et al. **Digestion** 1997;58(2):104-10

Increases in Ki-ras and ornithine decarboxylase gene expression in rat pancreas after caerulein-induced pancreatitis. Sarfati P, et al. **Digestion** 1996 Nov-Dec; 57(6):453-63

Expression and alternative processing of a chicken gene encoding both growth hormone-releasing hormone and pituitary adenylate cyclase-activating polypeptide. McRory JE, et al. **DNA Cell Biol** 1997 Jan;16(1):95-102

An expression profile of active genes in cultured human keratinocytes. Kita H, et al. **DNA Res** 1996 Feb 29;3(1):1-7

Prediction of the coding sequences of unidentified human genes. VII. The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro. Nagase T, et al. **DNA Res** 1997 Apr 28;4(2):141-50

Identification and cloning of neuroblastoma-specific and nerve tissue-specific genes through compiled expression profiles. Yokoyama M, et al. **DNA Res** 1996 Oct 31; 3(5):311-20

Genomic sequence analysis of the bovine male-enhanced antigen-1 (Mea-1) and differential localization of its transcripts and products during spermatogenesis. Kondo M, et al. **DNA Seq** 1996;6(2):75-85

Leptin receptor mRNA is expressed in ewe anterior pituitary and adipose tissues and is differentially expressed in hypothalamic regions of well-fed and feed-restricted ewes. Dyer CJ, et al. **Domest Anim Endocrinol** 1997 Mar; 14(2):119-28

Expression of cDNA clones by coupled in vitro transcription/translation and transfection into COS-1 cells: protein mapping in two-dimensional gels. Madsen P, et al. **Electrophoresis** 1995 Dec;16(12):2258-61

Different expression of immediate-early genes in the rat paraventricular nucleus induced by stress: relation to corticotropin-releasing factor gene transcription. Imaki T, et al. **Endocr J** 1996 Dec;43(6):629-38

Expression of insulin-like growth factor binding proteins (IGFBPs) in human thyroid papillary cancer tissues. Isozaki O, et al. **Endocr J** 1996 Oct;43 Suppl:S97-8

Expression of messenger RNA of insulin-like growth factors (IGFs) and IGF binding proteins (IGFBP1-6) in placenta of normal and diabetic pregnancy. Liu YJ, et al. **Endocr J** 1996 Oct;43 Suppl:S89-91

Gender difference in pituitary growth hormone-releasing factor (GRF) receptor gene expression in the rat. Miki N, et al. **Endocr J** 1996 Oct;43 Suppl:S123-5

Prolactin-dependent growth and gamma-casein gene expression in Ba/F3 cells transfected with a long form of mouse mammary prolactin receptor. Sasaki M, et al. **Endocr J** 1996 Feb;43(1):45-52

The stability of truncated epidermal growth factor receptor mRNA is higher than that of the full-length receptor mRNA in rat hepatoma cells. Satoh Y, et al. **Endocr J** 1997 Jun;44(3):403-8

Changes in ovarian expression of tissue-type plasminogen activator and plasminogen activator inhibitor type-1 messenger ribonucleic acids during ovulation in rat. Shen X, et al. **Endocr J** 1997 Jun;44(3):341-8

Differential expression of dipeptidyl peptidase IV (CD26) and thyroid peroxidase in neoplastic thyroid tissues. Umeki K, et al. **Endocr J** 1996 Feb;43(1):53-60

Functional expression of the guinea pig 11b-hydroxylase in COS-1 cells. Bülow HE, et al. **Endocr Res** 1996 Nov; 22(4):479-84

Expression of the mouse ACTH receptor gene and characterisation of its promoter. Clark AJ, et al. **Endocr Res** 1996 Nov;22(4):333-5 (3 ref.)

A transmembrane protein specifically expressed in zona glomerulosa. Halder SK, et al. **Endocr Res** 1996 Nov; 22(4):407-8

Adrenocortical-specific transgene expression directed by steroid hydroxylase gene promoters. Morley SD, et al. **Endocr Res** 1996 Nov;22(4):631-9

Characterization of the human ACTH receptor gene and in vitro expression. Naville D, et al. **Endocr Res** 1996 Nov; 22(4):337-48

Cytochrome P450(11 beta): ectopic expression in oocyte and its physiological implication. Okamoto M, et al. **Endocr Res** 1996 Nov;22(4):471-7

Intercellular communication: relative importance of cellular adhesion and paracrine signaling to hormonal gene expression. Abraham EJ, et al. **Endocrinology** 1996 Sep; 137(9):4050-3

Characterization of the mouse DAX-1 gene reveals evolutionary conservation of a unique amino-terminal motif and widespread expression in mouse tissue. Bae DS, et al. **Endocrinology** 1996 Sep;137(9):3921-7

Characterization of soluble, disulfide bond-stabilized, prokaryotically expressed human thyrotropin receptor ectodomain. Bobovnikova Y, et al. **Endocrinology** 1997 Feb; 138(2):588-93

Expression of transgenes in normal and neoplastic anterior pituitary cells using recombinant adenoviruses: long term expression, cell cycle dependency, and effects on hormone secretion. Castro MG, et al. **Endocrinology** 1997 May; 138(5):2184–94

Co–expression of bovine growth hormone (GH) and human GH antagonist genes in transgenic mice. Chen NY, et al. **Endocrinology** 1997 Feb;138(2):851–4

In situ investigation of vitamin D receptor, alkaline phosphatase, and osteocalcin gene expression in oro–facial mineralized tissues. Davideau JL, et al. **Endocrinology** 1996 Aug;137(8):3577–85

Atrial natriuretic factor (ANF) and ANF receptor C gene expression and localization in the respiratory system: effects induced by hypoxia and hemodynamic overload. Di Nardo P, et al. **Endocrinology** 1996 Oct;137(10):4339–50

Expression of rat liver cell membrane transporters for thyroid hormone in Xenopus laevis oocytes. Docter R, et al. **Endocrinology** 1997 May;138(5):1841–6

Serum stimulation of parathyroid hormone–related peptide gene expression in ROS 17/2.8 osteosarcoma cells through transcriptional and posttranscriptional mechanisms. Falzon M. **Endocrinology** 1996 Sep;137(9):3681–8

Fasting–induced increases in food intake and neuropeptide Y gene expression are attenuated in aging male brown Norway rats. Gruenewald DA, et al. **Endocrinology** 1996 Oct;137(10):4460–7

Elevated corticosterone is not required for the rapid induction of neuropeptide Y gene expression by an overnight fast. Hanson ES, et al. **Endocrinology** 1997 Mar; 138(3):1041–7

Developmental and tissue–specific sulfonylurea receptor gene expression. Hernández–Sánchez C, et al. **Endocrinology** 1997 Feb;138(2):705–11

Cell–specific expression of the rat secretogranin II promoter. Jones LC, et al. **Endocrinology** 1996 Sep;137(9):3815–22

Expression of thyrotropin–releasing hormone (TRH) receptor mRNA in somatotrophs in the rat anterior pituitary. Konaka S, et al. **Endocrinology** 1997 Feb; 138(2):827–30

Growth hormone expression in murine bone marrow cells is independent of the pituitary transcription factor Pit–1. Kooijman R, et al. **Endocrinology** 1997 Sep;138(9):3949–55

Breed differences in expression of inhibin/activin subunits in porcine anterior pituitary glands. Li MD, et al. **Endocrinology** 1997 Feb;138(2):712–8

Novel effects of histamine on lipoprotein metabolism: suppression of hepatic low density lipoprotein receptor expression and reduction of plasma high density lipoprotein cholesterol in the rat. Liao W, et al. **Endocrinology** 1997 May;138(5):1863–70

Differential expression of the erbB2 gene in the periimplantation mouse uterus: potential mediator of signaling by epidermal growth factor–like growth factors. Lim H, et al. **Endocrinology** 1997 Mar;138(3):1328–37

Immobilization stress elevates gene expression for catecholamine biosynthetic enzymes and some neuropeptides in rat sympathetic ganglia: effects of adrenocorticotropin and glucocorticoids. Nankova B, et al. **Endocrinology** 1996 Dec;137(12):5597–604

Expression of p27Kip1 in osteoblast–like cells during differentiation with parathyroid hormone. Onishi T, et al. **Endocrinology** 1997 May;138(5):1995–2004

Overexpression and activation of the insulin receptor enhances expression of ERCC–1 messenger ribonucleic acid in cultured cells. Perfetti R, et al. **Endocrinology** 1997 May;138(5):1829–35

Porcine and bovine steroidogenic acute regulatory protein (StAR) gene expression during gestation. Pilon N, et al. **Endocrinology** 1997 Mar;138(3):1085–91

Interactions among receptors, thyroid hormone response elements, and ligands in the regulation of the rat uncoupling protein gene expression by thyroid hormone. Rabelo R, et al. **Endocrinology** 1996 Aug;137(8):3478–87

Evolution of transthyretin gene expression in the liver of Didelphis virginiana and other American marsupials. Richardson SJ, et al. **Endocrinology** 1996 Aug; 137(8):3507–12

Structure, characterization, and expression of the gene encoding the mouse Mel1a melatonin receptor [published erratum appears in Endocrinology 1997 Jun;138(6):2307] Roca AL, et al. **Endocrinology** 1996 Aug;137(8):3469–77

Expression of ryanodine receptors in the pituitary gland: evidence for a role in gonadotropin–releasing hormone signaling. Sundaresan S, et al. **Endocrinology** 1997 May; 138(5):2056–65

Androgen receptor gene expression in rat granulosa cells: the role of follicle–stimulating hormone and steroid hormones. Tetsuka M, et al. **Endocrinology** 1996 Oct; 137(10):4392–7

Decreased hepatic insulin–like growth factor (IGF)–I and increased IGF binding protein–1 and –2 gene expression in experimental uremia. Tönshoff B, et al. **Endocrinology** 1997 Mar;138(3):938–46

Effect of carboxypeptidase E deficiency on progastrin processing and gastrin messenger ribonucleic acid expression in mice with the fat mutation. Udupi V, et al. **Endocrinology** 1997 May;138(5):1959–63

Cloning and expression of a 5'–iodothyronine deiodinase from the liver of Fundulus heteroclitus. Valverde C, et al. **Endocrinology** 1997 Feb;138(2):642–8

Biomarkers of gene expression: growth factors and oncoproteins. Brandt–Rauf PW. **Environ Health Perspect** 1997 Jun;105 Suppl 4:807–16 (125 ref.)

Toward genome–wide scanning of gene expression: a functional aspect of the Genome Project. Ito T, et al. **Essays Biochem** 1996;31:11–21 (9 ref.)

Cellular processing limits the heterologous expression of secretory component in mammalian cells. Cottet S, et al. **Eur J Biochem** 1997 May 15;246(1):23–31

Structure and expression of the gene encoding secretor–type galactoside 2–alpha–L–fucosyltransferase (FUT2). Koda Y, et al. **Eur J Biochem** 1997 Jun 15;246(3):750–5

Developmental aspects of prolactin receptor gene expression in fetal and neonatal mice. Brown–Borg HM, et al. **Eur J Endocrinol** 1996 Jun;134(6):751–7

Analysis of human thyrotropin receptor gene expression and immunoreactivity in human orbital tissue. Spitzweg C, et al. **Eur J Endocrinol** 1997 Jun;136(6):599–607

Regional comparison of prolactin gene expression in the human decidualized endometrium in early and term pregnancy. Tanaka S, et al. **Eur J Endocrinol** 1996 Aug; 135(2):177–83

C–fos expression during vocal mobbing in the new world monkey Saguinus fuscicollis. Jürgens U, et al. **Eur J Neurosci** 1996 Jan;8(1):2–10

Erythropoietin gene expression in human, monkey and murine brain. Marti HH, et al. **Eur J Neurosci** 1996 Apr; 8(4):666–76

Altered gene expression of the N–methyl–D–aspartate receptor channel subunits in Purkinje cells of the staggerer mutant mouse. Nakagawa S, et al. **Eur J Neurosci** 1996 Dec;8(12):2644–51

Mechanical stretching induces interleukin–8 gene expression in fetal membranes: a possible role for the initiation of human parturition. Maehara K, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27;70(2):191–6

Insulin–like growth factor I expression alters acute sensitivity and tolerance to ethanol in transgenic mice. Pucilowski O, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):57–62

Gravitational loading of a simulated launch alters mRNA expression in osteoblasts. Fitzgerald J, et al. **Exp Cell Res** 1996 Oct 10;228(1):168–71

Constitutive expression of human ribosomal protein L7 arrests the cell cycle in G1 and induces apoptosis in Jurkat T–lymphoma cells. Neumann F, et al. **Exp Cell Res** 1997 Feb 1;230(2):252–61

Nuclear organization and gene expression. Spector DL. **Exp Cell Res** 1996 Dec 15;229(2):189–97 (53 ref.)

Reactivation of an inactive human X chromosome introduced into mouse embryonal carcinoma cells by microcell fusion with persistent expression of XIST. Yoshida I, et al. **Exp Cell Res** 1997 Feb 1;230(2):208–19

Expression of GH, TSH beta, LH beta and FSH beta genes during fetal pituitary development in the pig. Ma E, et al. **Exp Clin Endocrinol Diabetes** 1996;104(6):464–72

Iodide, cytokines and TSH–receptor expression in Graves' disease. Schuppert F, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:68–74

Age and gender effects on 1,25–dihydroxyvitamin D3–regulated gene expression. Johnson JA, et al. **Exp Gerontol** 1995 Nov–Dec;30(6):631–43

Gene expression in kidney using transgenic approaches. Kopp JB. **Exp Nephrol** 1997 Mar–Apr;5(2):157–67 (50 ref.)

Seizures and proto–oncogene expression of fos in the brain of adult genetically epilepsy–prone rats. Clough RW, et al. **Exp Neurol** 1997 Aug;146(2):341–53

Leptin gene is expressed in rat brown adipose tissue at birth. Dessolin S, et al. **FASEB J** 1997 Apr;11(5):382–7

Tissue–specific expression of splice variants of the mouse voltage–gated calcium channel alpha2/delta subunit. Angelotti T, et al. **FEBS Lett** 1996 Nov 18;397(2–3):331–7

Starch synthesis, and tuber storage protein genes are differently expressed in Solanum tuberosum and in Solanum brevidens. Bánfalvi Z, et al. **FEBS Lett** 1996 Apr 1; 383(3):159–64

Identification and expression of a variant isoform of the levocabastine–sensitive neurotensin receptor in the mouse central nervous system. Botto JM, et al. **FEBS Lett** 1997 Jan 3;400(2):211–4

Expression of cartilage oligomeric matrix protein by human synovium. Di Cesare PE, et al. **FEBS Lett** 1997 Jul 21; 412(1):249–52

Increased expression of T–plastin gene in cisplatin–resistant human cancer cells: identification by mRNA differential display. Hisano T, et al. **FEBS Lett** 1996 Nov 11; 397(1):101–7

Fish testicular 11beta–hydroxylase: cDNA cloning and mRNA expression during spermatogenesis. Jiang JQ, et al. **FEBS Lett** 1996 Nov 18;397(2–3):250–2

Identification and expression of six family genes in mouse retina. Kawakami K, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):259–63

MDR–1 gene expression is a minor factor in determining the multidrug resistance phenotype of MCF7/ADR and KB–V1 cells. Kim HM, et al. **FEBS Lett** 1997 Jul 21; 412(1):201–6

Insulin modulation of newly synthesized apolipoproteins B–100 and B–48 in human fetal intestine: gene expression and mRNA editing are not involved. Levy E, et al. **FEBS Lett** 1996 Sep 16;393(2–3):253–8

Expression of arachidonate platelet–type 12–lipoxygenase in human rheumatoid arthritis type B synoviocytes. Liagre B, et al. **FEBS Lett** 1997 Sep 1;414(1):159–64

A transient increase of snoN transcript by growth arrest upon serum deprivation and cell–to–cell contact. Mimura N, et al. **FEBS Lett** 1996 Nov 18;397(2–3):253–9

Uroguanylin gene expression in the alimentary tract and extra–gastrointestinal tissues. Miyazato M, et al. **FEBS Lett** 1996 Dec 2;398(2–3):170–4

Gene synthesis, high–level expression and assignment of backbone 15N and 13C resonances of soybean leghemoglobin. Prytulla S, et al. **FEBS Lett** 1996 Dec 16; 399(3):283–9

Expression, purification and characterization of GDP–D–mannose 4,6–dehydratase from Escherichia coli. Sturla L, et al. **FEBS Lett** 1997 Jul 21;412(1):126–30

Cloning, expression and CNS distribution of Kv4.3, an A–type K+ channel alpha subunit. Tsaur ML, et al. **FEBS Lett** 1997 Jan 3;400(2):215–20

Structure and expression of two highly related genes encoding SCM–1/human lymphotactin. Yoshida T, et al. **FEBS Lett** 1996 Oct 14;395(1):82–8

Expression of interstitial collagenase (matrix metalloproteinase–1) is related to the activity of human endometriotic lesions. Kokorine I, et al. **Fertil Steril** 1997 Aug;68(2):246–51

Human endometrial interleukin–6 (IL–6): in vivo messenger ribonucleic acid expression, in vitro protein production, and stimulation thereof by IL–1 beta. Vandermolen DT, et al. **Fertil Steril** 1996 Nov;66(5):741–7

Expression and signal transduction pathways of endothelin receptors in neuroendocrine cells. Stojilkovic SS, et al. **Front Neuroendocrinol** 1996 Jul;17(3):327–69 (224 ref.)

Extracellular matrix composition and gene expression in collagenous colitis. Aigner T, et al. **Gastroenterology** 1997 Jul;113(1):136–43

The expression of p185(HER–2/neu) correlates with the stage of disease and survival in colorectal cancer. Kapitanović S, et al. **Gastroenterology** 1997 Apr; 112(4):1103–13

Gene expression and regulation of plasminogen activator inhibitor type I in hepatic stellate cells of rat liver. Knittel T, et al. **Gastroenterology** 1996 Sep;111(3):745–54

Rat lactase–phlorizin hydrolase/human growth hormone transgene is expressed on small intestinal villi in transgenic mice. Krasinski SD, et al. **Gastroenterology** 1997 Sep; 113(3):844–55

Differential and regulated expression of C–X–C, C–C, and C–chemokines by human colon epithelial cells. Yang SK, et al. **Gastroenterology** 1997 Oct;113(4):1214–23

Cloning and expression of somatolactin, a pituitary hormone related to growth hormone and prolactin from gilthead seabream, Sparus aurata. Astola A, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):330–6

Arginine vasotocin gene expression and secretion during osmotic stimulation and hemorrhagic hypotension in hens. Jaccoby S, et al. **Gen Comp Endocrinol** 1997 Jun; 106(3):327–37

Cloning and expression pattern of a second [His5Trp7Tyr8]gonadotropin–releasing hormone (chicken GnRH–II) mRNA in goldfish: evidence for two distinct genes. Lin XW, et al. **Gen Comp Endocrinol** 1997 Aug; 107(2):262–72

Changes in Vitellogenin expression during captivity–induced stress in a tropical anole. Morales MH, et al. **Gen Comp Endocrinol** 1996 Aug;103(2):209–19

Expression of messenger ribonucleic acids of luteinizing hormone and follicle–stimulating hormone receptors in granulosa and theca layers of chicken preovulatory follicles. Zhang C, et al. **Gen Comp Endocrinol** 1997 Mar; 105(3):402–9

Intracellular production of a major cytomegalovirus antigenic protein in the methylotrophic yeast Pichia pastoris. Battista MC, et al. **Gene** 1996 Oct 17; 176(1–2):197–201

Expression of alternatively spliced PCTAIRE–1 mRNA in PC12 cells and neonatal rat brain. Gao CY, et al. **Gene** 1996 Oct 17;176(1–2):243–7

Expression profiles of active genes in human and mouse livers. Kawamoto S, et al. **Gene** 1996 Sep 26;174(1):151–8

Stable high–copy–number bacteriophage lambda promoter vectors for overproduction of proteins in Escherichia coli. Love CA, et al. **Gene** 1996 Oct 17;176(1–2):49–53

Analysis of an expression profile of genes in the human adipose tissue. Maeda K, et al. **Gene** 1997 May 6; 190(2):227–35

Nuclear factor YY1 activates the mammalian F0F1 ATP synthase alpha–subunit gene. Breen GA, et al. **Gene Expr** 1996;5(3):181–91

Expression of transcription factors and stem cell factor precedes hepatocyte differentiation in rat pancreas. Rao MS, et al. **Gene Expr** 1996;6(1):15–22

Correct cell– and differentiation–specific expression of a murine alpha 1 (I) collagen minigene in vitro differentiating embryonal carcinoma cells. Rhodes K, et al. **Gene Expr** 1996;6(1):35–44

Analysis of the relative level of gene expression from different retroviral vectors used for gene therapy. Byun J, et al. **Gene Ther** 1996 Sep;3(9):780–8

Selected strategies to augment polynucleotide immunization. Conry RM, et al. **Gene Ther** 1996 Jan;3(1):67–74

A demonstration using mouse models that successful gene therapy for cystic fibrosis requires only partial gene correction. Dorin JR, et al. **Gene Ther** 1996 Sep; 3(9):797–801

A novel DNA-peptide complex for efficient gene transfer and expression in mammalian cells. Gottschalk S, et al. **Gene Ther** 1996 May;3(5):48–57

Evaluation of promoter strength for hepatic gene expression in vivo following adenovirus-mediated gene transfer. Guo ZS, et al. **Gene Ther** 1996 Sep;3(9):802–10

Receptor-mediated transfer of pSV2CAT DNA to mouse liver cells using asialofetuin-labeled liposomes. Hara T, et al. **Gene Ther** 1995 Dec;2(10):784–8

Targeting cell-specific gene expression with an adenovirus vector containing the lacZ gene under the control of the CFTR promoter. Imler JL, et al. **Gene Ther** 1996 Jan; 3(1):49–58

Stabilization of transgene expression by incorporation of E3 region genes into an adenoviral factor IX vector and by transient anti-CD4 treatment of the host. Poller W, et al. **Gene Ther** 1996 Jun;3(6):521–30

Heart muscle-specific gene expression using replication defective recombinant adenovirus. Rothmann T, et al. **Gene Ther** 1996 Oct;3(10):919–26

HBV-derived promoters direct liver-specific expression of an adenovirally transduced LDL receptor gene. Sandig V, et al. **Gene Ther** 1996 Nov;3(11):1002–9

Long-term gene expression from autonomously replicating vectors in mammalian cells. Wohlgemuth JG, et al. **Gene Ther** 1996 Jun;3(6):503–12

Multilineage gene expression precedes commitment in the hemopoietic system. Hu M, et al. **Genes Dev** 1997 Mar 15;11(6):774–85

A eubacterial gene conferring spectinomycin resistance on Chlamydomonas reinhardtii: integration into the nuclear genome and gene expression. Cerutti H, et al. **Genetics** 1997 Jan;145(1):97–110

Molecular lesions associated with alleles of decapentaplegic identify residues necessary for TGF-beta/BMP cell signaling in Drosophila melanogaster. Wharton K, et al. **Genetics** 1996 Feb;142(2):493–505

Identification and analysis of expression of human VACM-1, a cullin gene family member located on chromosome 11q22-23 [letter] Byrd PJ, et al. **Genome Res** 1997 Jan; 7(1):71–5

Accurate and absolute quantitative measurement of gene expression by single-tube RT-PCR and HPLC. Hayward-Lester A, et al. **Genome Res** 1995 Dec; 5(5):494–99

Expression patterns of the human sarcoma-associated genes FUS and EWS and the genomic structure of FUS. Aman P, et al. **Genomics** 1996 Oct 1;37(1):1–8

Characterization of a human fovea cDNA library and regional differential gene expression in the human retina. Bernstein SL, et al. **Genomics** 1996 Mar 15;32(3):301–8

Human fatty aldehyde dehydrogenase gene (ALDH10): organization and tissue-dependent expression. Chang C, et al. **Genomics** 1997 Feb 15;40(1):80–5

Isolation and regional mapping of cDNAs expressed during early human development. Jay P, et al. **Genomics** 1997 Jan 1;39(1):104–8

Structure, sequence, expression, and chromosomal localization of the human V1a vasopressin receptor gene. Thibonnier M, et al. **Genomics** 1996 Feb 1;31(3):327–34

Expression of beta-galactoside alpha 2,6-sialyltransferase does not alter the susceptibility of human colon cancer cells to NK-mediated cell lysis. Dall'Olio F, et al. **Glycobiology** 1997 Jun;7(4):507–13

Cloning and expression of a Xenopus laevis oocyte lectin and characterization of its mRNA levels during early development. Lee JK, et al. **Glycobiology** 1997 Apr; 7(3):367–72

MUC7 gene expression and genetic polymorphism. Biesbrock AR, et al. **Glycoconj J** 1997 Jun;14(4):415–22

Expression of vascular endothelial growth factor in human luteinizing granulosa cells and its correlation with the response to controlled ovarian hyperstimulation. Doldi N, et al. **Gynecol Endocrinol** 1997 Aug;11(4):263–7

Vascular endothelial growth factor messenger ribonucleic acid expression in human ovarian and endometrial cancer. Doldi N, et al. **Gynecol Endocrinol** 1996 Dec;10(6):375–82

Expression of estrogen receptor wild type and exon 5 splicing variant mRNAs in normal and endometriotic endometria during the menstrual cycle. Fujimoto J, et al. **Gynecol Endocrinol** 1997 Feb;11(1):11–6

Expression of basic fibroblast growth factor and its mRNA in uterine endometrium during the menstrual cycle. Fujimoto J, et al. **Gynecol Endocrinol** 1996 Jun;10(3):193–7

Expression of estrogen and progesterone receptors and their mRNAs in ovarian endometriosis. Misao R, et al. **Gynecol Endocrinol** 1996 Oct;10(5):303–10

c-fos overexpression is associated with the pathoneogenesis of invasive cervical cancer. Cheung TH, et al. **Gynecol Obstet Invest** 1997;43(3):200–3

Expression pattern of c-sis, c-fos and c-jun in human placenta and embryofetal organs. Rossi D, et al. **Gynecol Obstet Invest** 1996;42(1):1–7

Cyclin D1 abnormalities and tobacco exposure in head and neck squamous cell carcinoma. Davidson BJ, et al. **Head Neck** 1996 Nov-Dec;18(6):512–21

Differences in sarcoplasmic reticulum gene expression in myocardium from patients undergoing cardiac surgery. Quantification of steady-state levels of messenger RNA using the reverse transcription-polymerase chain reaction. Ohkusa T, et al. **Heart Vessels** 1997;12(1):1–9

Reciprocal gene expression of rat fibroglycan and beta-actin during the course of regeneration after D-galactosamine liver injury. Shinji T, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):239–44

High frequency of the MAGE-1 gene expression in hepatocellular carcinoma. Yamashita N, et al. **Hepatology** 1996 Dec;24(6):1437–40

P-element inserts in transgenic flies: a cautionary tale. Kaiser M, et al. **Heredity** 1997 Jan;78 (Pt 1):1–11

Expression of the mouse testicular histone gene H1t during spermatogenesis. Drabent B, et al. **Histochem Cell Biol** 1996 Aug;106(2):247–51

Effects of nutritional status and aging on leptin gene expression in mice: importance of glucose. Mizuno T, et al. **Horm Metab Res** 1996 Dec;28(12):679–84

Adrenocorticotropin receptor and adrenal disorders. Allolio B, et al. **Horm Res** 1997;47(4–6):273–8 (42 ref.)

Pit-1 gene expression in human pituitary adenomas. Pellegrini-Bouiller I, et al. **Horm Res** 1997;47(4–6):251–8 (43 ref.)

Distinct sexual dimorphism in the effect of hypothyroidism on the expression of the growth hormone receptor and growth hormone-binding protein gene in rat liver. Romero GS, et al. **Horm Res** 1996;45(6):273–8

Loss of tumorigenicity and increased immunogenicity induced by interleukin-10 gene transfer in B16 melanoma cells. Gérard CM, et al. **Hum Gene Ther** 1996 Jan; 7(1):23–31

Growth retardation--an unexpected outcome from growth hormone gene therapy in normal mice with microencapsulated myoblasts. Al-Hendy A, et al. **Hum Gene Ther** 1996 Jan;7(1):61–70

Gene transfer of cytidine deaminase apoBEC-1 lowers lipoprotein(a) in transgenic mice and induces apolipoprotein B editing in rabbits. Hughes SD, et al. **Hum Gene Ther** 1996 Jan;7(1):39–49

Prolonged in vivo gene expression driven by a tyrosine hydroxylase promoter in a defective herpes simplex virus amplicon vector. Jin BK, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2015–24

In vitro assessment of variables affecting the efficiency and efficacy of adenovirus-mediated gene transfer to cystic fibrosis airway epithelia. Johnson LG, et al. **Hum Gene Ther** 1996 Jan;7(1):51–9

Long-term persistence of canine hematopoietic cells genetically marked by retrovirus vectors. Kiem HP, et al. **Hum Gene Ther** 1996 Jan;7(1):89–96

Retrovirus-mediated gene expression in hematopoietic cells correlates inversely with growth factor stimulation. Lu M, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2263–71

Long-term secretion of therapeutic proteins from genetically modified skeletal muscles. Naffakh N, et al. **Hum Gene Ther** 1996 Jan;7(1):11–21

Retroviral transduction of CD34-enriched hematopoietic progenitor cells under serum-free conditions. Sekhar M, et al. **Hum Gene Ther** 1996 Jan;7(1):33–8

Synthesis and processing of genetically modified human proinsulin by rat myoblast primary cultures. Simonson GD, et al. **Hum Gene Ther** 1996 Jan;7(1):71–8

Comparison of the human and mouse genes encoding the telomeric protein, TRF1: chromosomal localization, expression and conserved protein domains. Broccoli D, et al. **Hum Mol Genet** 1997 Jan;6(1):69–76

Absence of disease phenotype and intergenerational stability of the CAG repeat in transgenic mice expressing the human Huntington disease transcript. Goldberg YP, et al. **Hum Mol Genet** 1996 Feb;5(2):177–85

Functional human CFTR produced by stable Chinese hamster ovary cell lines derived using yeast artificial chromosomes. Mogayzel PJ Jr, et al. **Hum Mol Genet** 1997 Jan;6(1):59–68

Expression of mutated glucocerebrosidase alleles in human cells. Pasmanik-Chor M, et al. **Hum Mol Genet** 1997 Jun; 6(6):887–95

Expression of progesterone receptor mRNA in the endometrium during the normal menstrual cycle and in Norplant users. Lau TM, et al. **Hum Reprod** 1996 Dec; 11(12):2629–34

Myogenic tone attenuates pressure-induced gene expression in isolated small arteries. Allen SP, et al. **Hypertension** 1997 Aug;30(2 Pt 1):203–8

Hypoxia stimulates atrial natriuretic peptide gene expression in cultured atrial cardiocytes. Chen YF, et al. **Hypertension** 1997 Jan;29(1 Pt 1):75–82

Vascular angiotensin-converting enzyme expression regulates local angiotensin II. Müller DN, et al. **Hypertension** 1997 Jan;29(1 Pt 1):98–104

Increased transforming growth factor-beta production and gene expression by peripheral blood monocytes of hypertensive patients. Porreca E, et al. **Hypertension** 1997 Jul;30(1 Pt 1):134–9

Expression of the recombinase-activating gene (RAG-1) in murine early embryogenesis. Hayakawa S, et al. **Immunol Cell Biol** 1996 Feb;74(1):52–6

Targeted expression of MHC class II genes to dendritic cells in vivo. Riedinger M, et al. **Immunol Lett** 1997 Jun 1; 57(1-3):155–8

Isolation and propagation of yolk-sac-derived endothelial cells from a hypervascular transgenic mouse expressing a gain-of-function fps/fes proto-oncogene. Wang SJ, et al. **In Vitro Cell Dev Biol Anim** 1996 May;32(5):292–9

The hemagglutinin genes hagB and hagC of Porphyromonas gingivalis are transcribed in vivo as shown by use of a new expression vector. Lee SW, et al. **Infect Immun** 1996 Nov;64(11):4802–10

Phenobarbital induction of CYP6D1 is due to a trans acting factor on autosome 2 in house flies, Musca domestica. Liu N, et al. **Insect Mol Biol** 1997 Feb;6(1):77–81

Isolation and expression of a cDNA clone encoding an Alternaria alternata Alt a 1 subunit. De Vouge MW, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):385–95

Expression of protamine P2 in the testis of the common marmoset and man visualized using non-radioactive in-situ hybridization. Saunders PT, et al. **Int J Androl** 1996 Aug; 19(4):212–9

Preferential expression of novel MUC1 tumor antigen isoforms in human epithelial tumors and their tumor-potentiating function. Baruch A, et al. **Int J Cancer** 1997 May 29;71(5):741–9

Pro-protein convertase gene expression in human breast cancer. Cheng M, et al. **Int J Cancer** 1997 Jun 11; 71(6):966–71

Effect of mts1 (S100A4) expression on the progression of human breast cancer cells. Grigorian M, et al. **Int J Cancer** 1996 Sep 17;67(6):831–41

Elevated expression of calcium-binding protein p9Ka is associated with increasing malignant characteristics of rat prostate carcinoma cells. Ke Y, et al. **Int J Cancer** 1997 May 29;71(5):832–7

Identification of highly expressed genes in metastasis-suppressed chromosome 6/human malignant melanoma hybrid cells using subtractive hybridization and differential display. Lee JH, et al. **Int J Cancer** 1997 Jun 11;71(6):1035–44

Expression of drug resistance proteins in breast cancer, in relation to chemotherapy. Linn SC, et al. **Int J Cancer** 1997 May 29;71(5):787–95

Expression of interleukin 15 (IL-15) in human rhabdomyosarcoma, osteosarcoma and Ewing's sarcoma. Lollini PL, et al. **Int J Cancer** 1997 May 29;71(5):732–6

Rat primary T cells expressing HTLV-I tax gene transduced by a retroviral vector: in vitro and in vivo characterization. Murata K, et al. **Int J Cancer** 1996 Sep 27;68(1):102–8

Expression of matrilysin in vascular endothelial cells adjacent to matrilysin-producing tumors. Nagashima Y, et al. **Int J Cancer** 1997 Jul 29;72(3):441–5

Co-expression of urokinase-type plasminogen activator and its receptor in human gastric-cancer cell lines correlates with their invasiveness and tumorigenicity. Park IK, et al. **Int J Cancer** 1997 May 29;71(5):867–73

Constitutive expression of FGF2/bFGF in non-tumorigenic human prostatic epithelial cells results in the acquisition of a partial neoplastic phenotype. Ropiquet F, et al. **Int J Cancer** 1997 Jul 29;72(3):543–7

Discrimination of fibroblast subtypes by multivariate analysis of gene expression. Spanakis E, et al. **Int J Cancer** 1997 May 2;71(3):402–9

Chick noggin is expressed in the organizer and neural plate during axial development, but offers no evidence of involvement in primary axis formation. Connolly DJ, et al. **Int J Dev Biol** 1997 Apr;41(2):389–96

Expression of c-ets-1 and uPA genes is associated with mammary epithelial cell tubulogenesis or neoplastic scattering. Delannoy-Courdent A, et al. **Int J Dev Biol** 1996 Dec;40(6):1097–108

Genesis of newt sperm axial fiber: cDNA cloning and expression of a 29 kDa protein, a major component of the axial fiber, during spermatogenesis. Furukawa K, et al. **Int J Dev Biol** 1996 Dec;40(6):1109–18

Isolation of a novel chick homolog of Serrate and its coexpression with C-Notch-1 in chick development. Hayashi H, et al. **Int J Dev Biol** 1996 Dec;40(6):1089–96

Analysis of tenascin mRNA expression in the murine mammary gland from embryogenesis to carcinogenesis: an in situ hybridization study. Kalembey I, et al. **Int J Dev Biol** 1997 Aug;41(4):569–73

Ameloblastin expression in rat incisors and human tooth germs. Lee SK, et al. **Int J Dev Biol** 1996 Dec; 40(6):1141–50

Characterization of terminally differentiated cell state by categorizing cDNA clones derived from chicken lens fibers. Sawada K, et al. **Int J Dev Biol** 1996 Jun;40(3):531–5

Gene expression domains as markers in developmental toxicity studies using mammalian embryo culture. Williams JA, et al. **Int J Dev Biol** 1997 Apr;41(2):359–64

Developmental expression of splicing variants of fibroblast growth factor receptor 3 (FGFR3) in mouse. Wuechner C, et al. **Int J Dev Biol** 1996 Dec;40(6):1185–8

Expression of the p53 induced tumor suppressor p21waf1/cip1 in ovarian carcinomas: correlation with p53 and Ki-67 immunohistochemistry. Werness BA, et al. **Int J Gynecol Pathol** 1997 Apr;16(2):149–55

The role of heme in gene expression. Sassa S, et al. **Int J Hematol** 1996 Apr;63(3):167–78 (71 ref.)

Plasma leptin concentrations and OB gene expression in subcutaneous adipose tissue are not regulated acutely by physiological hyperinsulinaemia in lean and obese humans. Clapham JC, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):179–83

Effect of acute exhausting exercise on cytokine gene expression in men. Natelson BH, et al. **Int J Sports Med** 1996 May;17(4):299–302

Gene expression of TGF-alpha, EGF and IL-6 in cultured renal tubular cells and renal cell carcinoma. Aoyagi T, et al. **Int J Urol** 1996 Sep;3(5):392–6

Molecular biology of human ovarian cancer. Chow SN, et al. **Int Surg** 1996 Apr-Jun;81(2):152-7 (85 ref.)

Induction of basic fibroblast growth factor mRNA by basic fibroblast growth factor in Müller cells. Cao W, et al. **Invest Ophthalmol Vis Sci** 1997 Jun;38(7):1358-66

Localization of upstream silencer elements involved in the expression of cone transducin alpha-subunit (GNAT2). Morris TA, et al. **Invest Ophthalmol Vis Sci** 1997 Jan; 38(1):196-206

Gene expression of the neurotrophic pigment epithelium-derived factor in the human ciliary epithelium. Synthesis and secretion into the aqueous humor. Ortego J, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2759-67

Lens-specific expression of PDGF-A in transgenic mice results in retinal astrocytic hamartomas. Reneker LW, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2455-66

Analysis of gamma delta T-cell receptor repertoire in the human nasal mucosa. Takeuchi K, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):251-3

Inducible nitric oxide synthase and tumor necrosis factor-alpha in myocardium in human dilated cardiomyopathy. Satoh M, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):716-24

Overexpression of GLUT2 gene in renal proximal tubules of diabetic Zucker rats. Kamran M, et al. **J Am Soc Nephrol** 1997 Jun;8(6):943-8

Lifelong angiotensin-converting enzyme inhibition, pressure natriuresis, and renin-angiotensin system gene expression in transgenic (mRen-2)27 rats. Lippoldt A, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2119-29

Insulin-like growth factor (IGF) and IGF binding protein gene expression in multicystic renal dysplasia. Matsell DG, et al. **J Am Soc Nephrol** 1997 Jan;8(1):85-94

Renal cortical complement C3 gene expression in IgA nephropathy. Montinaro V, et al. **J Am Soc Nephrol** 1997 Mar;8(3):415-25

Use of green fluorescent protein to visualize the early events of symbiosis between Rhizobium meliloti and alfalfa (Medicago sativa). Gage DJ, et al. **J Bacteriol** 1996 Dec; 178(24):7159-66

Significance of the chromatin structure in expression of the rat prolactin gene. Aizawa A, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):296-301

Cloning and expression of cDNA encoding a human ubiquitin-conjugating enzyme similar to the Drosophila bendless gene product. Yamaguchi T, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):494-97

Molecular cloning and gene expression of chum salmon cystatin. Yamashita M, et al. **J Biochem (Tokyo)** 1996 Sep; 120(3):483-7

Connexin expression systems: to what extent do they reflect the situation in the animal? Willecke K, et al. **J Bioenerg Biomembr** 1996 Aug;28(4):319-26 (68 ref.)

Monkey growth hormone (GH) receptor gene expression. Evidence for two mechanisms for the generation of the GH binding protein. Martini JF, et al. **J Biol Chem** 1997 Jul 25;272(30):18951-8

The small conductance calcium-activated potassium channel regulates ion channel expression in C3H10T1/2 cells ectopically expressing the muscle regulatory factor MRF4. Peña TL, et al. **J Biol Chem** 1997 Aug 29;272(35):21909-16

Selective up-regulation of cytokine-induced RANTES gene expression in lung epithelial cells by overexpression of IkappaBR. Ray P, et al. **J Biol Chem** 1997 Aug 8; 272(32):20191-7

Rtg3p, a basic helix-loop-helix/leucine zipper protein that functions in mitochondrial-induced changes in gene expression, contains independent activation domains. Rothermel BA, et al. **J Biol Chem** 1997 Aug 8; 272(32):19801-7

Glucose-dependent liver gene expression in upstream stimulatory factor 2 -/- mice. Vallet VS, et al. **J Biol Chem** 1997 Aug 29;272(35):21944-9

Expression of rat bone sialoprotein promoter in transgenic mice. Chen J, et al. **J Bone Miner Res** 1996 May; 11(5):654-64

Gene expression of the Na-Ca exchanger in cardiac hypertrophy. Menick DR, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S69-76 (40 ref.)

Structure and function analysis of the human myeloid cell nuclear differentiation antigen promoter: evidence for the role of Sp1 and not of c-Myb or PU.1 in myelomonocytic lineage-specific expression. Kao WY, et al. **J Cell Biochem** 1997 May;65(2):231-44

Differential expression of c-jun and junD in end-stage human cardiomyopathy. Pollack PS, et al. **J Cell Biochem** 1997 May;65(2):245-53

Expression and changing distribution of the human transferrin receptor in developing Drosophila oocytes and embryos. Bretscher MS. **J Cell Sci** 1996 Dec;109 (Pt 13):3113-9

Attenuation of transient focal cerebral ischemic injury in transgenic mice expressing a mutant ICE inhibitory protein. Hara H, et al. **J Cereb Blood Flow Metab** 1997 Apr; 17(4):370-5

Expression of serotonin transporter mRNA in rat brain: presence in neuronal and non-neuronal cells and effect of paroxetine. Swan MC, et al. **J Chem Neuroanat** 1997 Jul; 13(2):71-6

Expression of genes encoding corticotropin-releasing factor (CRF), type 1 CRF receptor, and CRF-binding protein and localization of the gene products in the human ovary. Asakura H, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2720-5

Lysyl oxidase (ras recision gene) expression in human amnion: ontogeny and cellular localization. Casey ML, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):167-72

Expression of glucocorticoid receptor gene isoforms in corticotropin-secreting tumors. Dahia PL, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1088-93

Expression of corticotropin-releasing hormone and its R1 receptor in human endometrial stromal cells. Di Blasio AM, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1594-7

Transfection of human lactotroph adenoma cells with an adenovirus vector expressing tyrosine hydroxylase decreases prolactin release. Freese A, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2401-4

The GLUT3 glucose transporter isoform is differentially expressed within human placental cell types. Hauguel-de Mouzon S, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2689-94

The protein kinase A pathway inhibits c-jun and c-fos protooncogene expression induced by the protein kinase C and tyrosine kinase pathways in cultured human thyroid follicles. Heinrich R, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1839-44

Metastatic prolactinoma: effect of octreotide, cabergoline, carboplatin and etoposide; immunocytochemical analysis of proto-oncogene expression. Hurel SJ, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2962-5

An amphotropic retroviral vector expressing a mutant gsp oncogene: effects on human thyroid cells in vitro. Ivan M, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2702-9

Messenger ribonucleic acid expression of heat shock proteins HSP70 and HSP90 in human endometrium and myometrium during the menstrual cycle. Komatsu T, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1385-9

High expression of the POU factor Brn3a in aggressive neuroendocrine tumors. Leblond-Francillard M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):89-94

Ribonucleic acid expression of the CLA-1 gene, a human homolog to mouse high density lipoprotein receptor SR-BI, in human adrenal tumors and cultured adrenal cells. Liu J, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2522-7

Human placenta and fetal membranes express human urocortin mRNA and peptide. Petraglia F, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3807-10

Gonadotropin-releasing hormone gene expression is increased in the medial basal hypothalamus of postmenopausal women. Rance NE, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3540-6

Aromatase activity and expression in breast cancer and benign breast tissue stromal cells. Santner SJ, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):200-8

Different expression patterns of somatostatin receptor subtypes in cultured epithelial cells from human normal prostate and prostate cancer. Sinisi AA, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2566-9

Differential expression of members of the bcl-2 gene family in proliferative and secretory human endometrium: glandular epithelial cell apoptosis is associated with increased expression of bax. Tao XJ, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2738-46

Intercellular adhesion molecule-1 is expressed on human granulosa cells and mediates their binding to lymphoid cells. Viganò P, et al. **J Clin Endocrinol Metab** 1997 Jan; 82(1):101-5

Expression of the apoptosis-suppressing gene BCL-2 in pheochromocytoma is associated with the expression of C-MYC. Wang DG, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1949-52

Tissue-specific expression of alpha and beta messenger ribonucleic acid isoforms of the human mineralocorticoid receptor in normal and pathological states. Zennaro MC, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1345-52

Human ovarian expression of 17 beta-hydroxysteroid dehydrogenase types 1, 2, and 3. Zhang Y, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3594-8

Deoxyribonucleic acid triplex formation inhibits granulocyte macrophage colony-stimulating factor gene expression and suppresses growth in juvenile myelomonocytic leukemic cells. Kochetkova M, et al. **J Clin Invest** 1997 Jun 15; 99(12):3000-8

Leptin secretion from adipose tissue in women. Relationship to plasma levels and gene expression. Lönnqvist F, et al. **J Clin Invest** 1997 May 15;99(10):2398-404

Peroxisome proliferator-activated receptor gene expression in human tissues. Effects of obesity, weight loss, and regulation by insulin and glucocorticoids. Vidal-Puig AJ, et al. **J Clin Invest** 1997 May 15;99(10):2416-22

Expression of fibroblast growth factor-2 in hypoglossal motoneurons is stimulated by peripheral nerve injury. Huber K, et al. **J Comp Neurol** 1997 Jun 2;382(2):189-98

Expression of a bovine alpha-lactalbumin transgene in alpha-lactalbumin-deficient mice can rescue lactation. In vivo relationship between bovine alpha-lactalbumin expression content and milk composition. Soulier S, et al. **J Dairy Res** 1997 Feb;64(1):145-8

Elevation of lactoferrin gene expression in developing, ductal, resting, and regressing parenchymal epithelium of the ruminant mammary gland. Molenaar AJ, et al. **J Dairy Sci** 1996 Jul;79(7):1198-208

Lineage-specific CaN19 expression in human skin: lack of expression in normal melanocytes. Andersen LB, et al. **J Dermatol Sci** 1996 Apr;12(1):69-72

Increased expression of type VI collagen genes in cutis laxa fibroblasts. Hatamochi A, et al. **J Dermatol Sci** 1996 Feb; 11(2):97-103

Localization of prolidase gene expression in scar tissue using in situ hybridization. Senboshi Y, et al. **J Dermatol Sci** 1996 Jun;12(2):163-71

Gene expression of gonadotropin-releasing hormone in early pregnant rat and steroid hormone exposed mouse uteri. Ikeda M, et al. **J Endocrinol Invest** 1996 Dec;19(11):708-13

Expression of natriuretic peptide receptors in human adipose and other tissues. Sarzani R, et al. **J Endocrinol Invest** 1996 Oct;19(9):581-5

Monitoring the transfection efficiency of the human follicle-stimulating hormone receptor cDNA in COS-7 cells: evaluation of the growth hormone transient gene expression assay system. Simoni M, et al. **J Endocrinol Invest** 1996 Jun;19(6):359-64

Sodium/proton antiporter in the euryhaline crab Carcinus maenas: molecular cloning, expression and tissue distribution. Towle DW, et al. **J Exp Biol** 1997 Mar;200 (Pt 6):1003-14

Regenerating gene expression in normal gastric mucosa and indomethacin-induced mucosal lesions of the rat. Kawanami C, et al. **J Gastroenterol** 1997 Feb;32(1):12-8

Sequence of RNA2 of the Helicoverpa armigera stunt virus (Tetraviridae) and bacterial expression of its genes. Hanzlik TN, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):799-811

In vivo expression of an overlapping gene encoded by the cucumoviruses. Shi BJ, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):237-41

Genome organization and gene expression of saguaro cactus carmovirus. Weng Z, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):525-34

Transforming growth factor-beta gene expression in normal and fibrotic rat liver. De Bleser PJ, et al. **J Hepatol** 1997 Apr;26(4):886-93

Glial fibrillary acidic protein--a cell type specific marker for Ito cells in vivo and in vitro. Neubauer K, et al. **J Hepatol** 1996 Jun;24(6):719-30

Expression of HGF, its receptor c-met, c-myc, and albumin in cirrhotic and neoplastic human liver tissue. Ljubimova JY, et al. **J Histochem Cytochem** 1997 Jan;45(1):79-87

Cloning and expression of murine SC1, a gene product homologous to SPARC. Soderling JA, et al. **J Histochem Cytochem** 1997 Jun;45(6):823-35

Ion channels, Ca2+ signaling, and reporter gene expression in antigen-specific mouse T cells. Kerschbaum HH, et al. **J Immunol** 1997 Aug 15;159(4):1628-38

The IL-4 receptor alpha-chain cytoplasmic domain is sufficient for activation of JAK-1 and STAT6 and the induction of IL-4-specific gene expression. Reichel M, et al. **J Immunol** 1997 Jun 15;158(12):5860-7

NF-kappa B is activated during acute inflammation in vivo in association with elevated endothelial cell adhesion molecule gene expression and leukocyte recruitment. Manning AM, et al. **J Inflamm** 1995;45(4):283-96

c-myb proto-oncogene is expressed by quiescent scleroderma fibroblasts and, unlike B-myb gene, does not correlate with proliferation. Piccinini G, et al. **J Invest Dermatol** 1996 Jun;106(6):1281-6

Localization and regulation of expression of the FAR-17A gene in the hamster flank organs. Puy LA, et al. **J Invest Dermatol** 1996 Jul;107(1):44-50

Interleukin 4-induced proliferation in normal human keratinocytes is associated with c-myc gene expression and inhibited by genistein. Yang Y, et al. **J Invest Dermatol** 1996 Sep;107(3):367-72

Zinc deficiency affects cell cycle and deoxythymidine kinase gene expression in HUT-78 cells [see comments] Prasad AS, et al. **J Lab Clin Med** 1996 Jul;128(1):51-60. Comment in: J Lab Clin Med 1996 Jul;128(1):9-11.

Cholesterol 7alpha-hydroxylase influences the expression of hepatic apoA-I in two inbred mouse strains displaying different susceptibilities to atherosclerosis and in hepatoma cells. Dueland S, et al. **J Lipid Res** 1997 Jul;38(7):1445-53

Systematic expression of the complete coding sequence of apoB-100 does not reveal transmembrane determinants. Leiper JM, et al. **J Lipid Res** 1996 Oct;37(10):2215-31

Molecular cloning and functional expression of cDNA encoding the pig plasma phospholipid transfer protein. Pussinen PJ, et al. **J Lipid Res** 1997 Jul;38(7):1473-81

A statistical theory for flow cytometry profiles in terms of the binding of ligands to cell surface receptors and changes in gene expression. Bardsley WG, et al. **J Math Biol** 1996; 34(3):271-96

Genetic instabilities of chromosome 9, 17 and accumulation of p53 overexpression during multistage tumorigesis in head and neck cancer. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S104-12

Molecular biology of head and neck tumorigenesis: the role of p53 expression and genetic instability. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S3-10 (43 ref.)

Tissue-specific expression and alpha-actinin binding properties of the Z-disc titin: implications for the nature of vertebrate Z-discs. Sorimachi H, et al. **J Mol Biol** 1997 Aug 1;270(5):688-95

Phorbol myristate acetate-induced hypertrophy of neonatal rat cardiac myocytes is associated with decreased sarcoplasmic reticulum Ca2+ ATPase (SERCA2) gene expression and calcium reuptake. Hartong R, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2467-77

Serum from patients with chronic renal insufficiency alters growth characteristics and ANP mRNA expression of adult rat cardiac myocytes. Yu JZ, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2429–41

A possible relationship between VSP mismatch repair and gene expression level [letter] Gutiérrez G, et al. **J Mol Evol** 1996 Aug;43(2):161–3

NTS influence on transgene expression from mono- and bicistronic plasmid vectors after lipofection in a human fibroblast cell line. Kulmburg P, et al. **J Mol Med** 1997 Mar;75(3):223–9

Messenger RNA expression for a TSH receptor variant in the thymus of a two-year-old child. Paschke R, et al. **J Mol Med** 1995 Nov;73(11):577–80

Expression of the RET proto-oncogene in normal human tissues, pheochromocytomas, and other tumors of neural crest origin. Takaya K, et al. **J Mol Med** 1996 Oct; 74(10):617–21

Regional gene expression of the glutamate receptor subtypes GluR1, GluR2, and GluR3 in human postmortem brain. Breese CR, et al. **J Mol Neurosci** 1996 Winter;7(4):277–89

Male-male courtship behavior induced by ectopic expression of the Drosophila white gene: role of sensory function and age. Hing AL, et al. **J Neurobiol** 1996 Aug;30(4):454–64

Expression of the glucagon-like peptide-1 receptor gene in rat brain. Alvarez E, et al. **J Neurochem** 1996 Mar; 66(3):920–7

Conservation of gamma-aminobutyric acid type A receptor alpha 6 subunit gene expression in cerebellar granule cells. Bahn S, et al. **J Neurochem** 1996 May;66(5):1810–8

Expression of the neuron-specific enolase gene by rat oligodendroglial cells during their differentiation. Deloulme JC, et al. **J Neurochem** 1996 Mar;66(3):936–45

Functional expression of the type 1 inositol 1,4,5-trisphosphate receptor promoter-lacZ fusion genes in transgenic mice. Furutama D, et al. **J Neurochem** 1996 May;66(5):1793–801

Polysialic acid synthase (ST8Sia II/STX) mRNA expression in the developing mouse central nervous system. Kurosawa N, et al. **J Neurochem** 1997 Aug;69(2):494–503

Gene expression and regulation of Aplysia californica prohormone convertases aPC1B and aPC2. Ouimet T, et al. **J Neurochem** 1997 Mar;68(3):1031–40

An adenoviral vector-based system to study neuronal gene expression: analysis of the rat tyrosine hydroxylase promoter in cultured neurons. Robert JJ, et al. **J Neurochem** 1997 May;68(5):2152–60

Cloning, characterization, and expression of a calcitonin receptor from guinea pig brain. Sarkar A, et al. **J Neurochem** 1997 Aug;69(2):455–64

Two waves of cyclin B and proliferating cell nuclear antigen expression during dopamine-triggered neuronal apoptosis. Shirvan A, et al. **J Neurochem** 1997 Aug;69(2):539–49

An HSV-1 vector containing the rat tyrosine hydroxylase promoter enhances both long-term and cell type-specific expression in the midbrain. Song S, et al. **J Neurochem** 1997 May;68(5):1792–803

Calcitonin gene-related peptide and alpha-CGRP mRNA expression in cranial motoneurons after hypoglossal nerve injury during postnatal development. Blake-Bruzzini KM, et al. **J Neurocytol** 1997 Mar;26(3):163–79

Temporal and spatial patterns of expression of p35, a regulatory subunit of cyclin-dependent kinase 5, in the nervous system of the mouse. Delalle I, et al. **J Neurocytol** 1997 May;26(5):283–96

Expression of the dm-20 isoform of the plp gene in olfactory nerve ensheathing cells: evidence from developmental studies. Dickinson PJ, et al. **J Neurocytol** 1997 Mar; 26(3):181–9

Ultrastructural basis for gene expression at the synapse: synapse-associated polyribosome complexes. Steward O, et al. **J Neurocytol** 1996 Dec;25(12):717–34 (51 ref.)

Differential expression of NGFI-B and RNR-1 genes in various tissues and developing brain of the rat: comparative study by quantitative reverse transcription-polymerase chain reaction. Bandoh S, et al. **J Neuroendocrinol** 1997 Jan;9(1):3–8

Hypophysiotropic CRF neurons display a sustained immediate-early gene response to chronic stress but not to adrenalectomy. Brown ER, et al. **J Neuroendocrinol** 1997 Apr;9(4):307–16

Localization of mRNA coding for the three subtypes of atrial natriuretic factor (ANF) receptors in rat anterior pituitary gland cells. Grandclément B, et al. **J Neuroendocrinol** 1995 Dec;7(12):939–48

Food or water deprivation modulate nitric oxide synthase (NOS) activity and gene expression in rat hypothalamic neurones: correlation with neurosecretory activity? O'Shea RD, et al. **J Neuroendocrinol** 1996 Jun;8(6):417–25

Decline in basic fibroblast growth factor (FGF-2) mRNA expression in female rat hypothalamus at puberty. Smyth CE, et al. **J Neuroendocrinol** 1997 Feb;9(2):151–9

Pro-opiomelanocortin gene expression and protein processing in rat mononuclear leukocytes. Lyons PD, et al. **J Neuroimmunol** 1997 Sep;78(1–2):47–56

2.1 kb 5'-flanking region of the brain type dystrophin gene directs the expression of lacZ in the cerebral cortex, but not in the hippocampus. Kimura S, et al. **J Neurol Sci** 1997 Mar 20;147(1):13–20

Amplification and overexpression of MDM2 in primary (de novo) glioblastomas. Biernat W, et al. **J Neuropathol Exp Neurol** 1997 Feb;56(2):180–5

Adenovirus-mediated wild-type p53 gene transfer and overexpression induces apoptosis of human glioma cells independent of endogenous p53 status. Li H, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):872–8

The expression and function of Notch pathway genes in the developing rat eye. Bao ZZ, et al. **J Neurosci** 1997 Feb 15;17(4):1425–34

Quantitative single-cell-reverse transcription-PCR demonstrates that A-current magnitude varies as a linear function of shal gene expression in identified stomatogastric neurons. Baro DJ, et al. **J Neurosci** 1997 Sep 1; 17(17):6597–610

Actin plays a role in both changes in cell shape and gene-expression associated with Schwann cell myelination. Fernandez-Valle C, et al. **J Neurosci** 1997 Jan 1; 17(1):241–50

Retroviral misexpression of engrailed genes in the chick optic tectum perturbs the topographic targeting of retinal axons. Friedman GC, et al. **J Neurosci** 1996 Sep 1;16(17):5498–509

Gonadotropin-releasing hormone and NMDA receptor gene expression and colocalization change during puberty in female rats. Gore AC, et al. **J Neurosci** 1996 Sep 1; 16(17):5281–9

Selective expression of the immediate early gene c-jun in axotomized rat medial septal neurons is not related to neuronal degeneration. Haas CA, et al. **J Neurosci** 1996 Mar 1;16(5):1894–903

Differential effects of protein synthesis inhibition on the activity-dependent expression of BDNF transcripts: evidence for immediate-early gene responses from specific promoters. Lauterborn JC, et al. **J Neurosci** 1996 Dec 1; 16(23):7428–36

Two alternative promoters direct neuron-specific expression of the rat microtubule-associated protein 1B gene. Liu D, et al. **J Neurosci** 1996 Aug 15;16(16):5026–36

Expression patterns of developmental control genes in normal and Engrailed-1 mutant mouse spinal cord reveal early diversity in developing interneurons. Matise MP, et al. **J Neurosci** 1997 Oct 15;17(20):7805–16

Metabolic and genetic analyses of apoptosis in potassium/serum-deprived rat cerebellar granule cells. Miller TM, et al. **J Neurosci** 1996 Dec 1;16(23):7487–95

A family of rat CRMP genes is differentially expressed in the nervous system. Wang LH, et al. **J Neurosci** 1996 Oct 1;16(19):6197–207

Neuronally restricted RNA splicing regulates the expression of a novel GABAA receptor subunit conferring atypical functional properties [corrected; erratum to be published] Whiting PJ, et al. **J Neurosci** 1997 Jul 1;17(13):5027–37

Gene localization and developmental expression of light chain 3: a common subunit of microtubule-associated protein 1A(MAP1A) and MAP1B. Mann SS, et al. **J Neurosci Res** 1996 Mar 1;43(5):535–44

Expression of chemokine genes in rat glial cells: the effect of myelin basic protein-reactive encephalitogenic T cells. Sun D, et al. **J Neurosci Res** 1997 May 1;48(3):192–200

Transfection of IFNalpha in human glioblastoma cells and tumorigenicity in association with induction of PKR and OAS gene expression. He J, et al. **J Neurosurg** 1996 Dec; 85(6):1085–90

Inadequate PAX-1 gene expression as a cause of agenesis of the thoracolumbar spine with failure of segmentation. Case report. López BC, et al. **J Neurosurg** 1997 Jun; 86(6):1018–21

p53 expression in odontogenic keratocyst epithelium. Li TJ, et al. **J Oral Pathol Med** 1996 May;25(5):249–55

Expression of collagen and matrix metalloproteinases in ruptured human anterior cruciate ligament: an in situ hybridization study. Spindler KP, et al. **J Orthop Res** 1996 Nov;14(6):857–61

Sucrase-isomaltase gene expression in suckling rat intestine: hormonal, dietary, and growth factor control. Emvo EN, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):262–9

Developmental gene expression of trypsinogen and lipase in human fetal pancreas. Moriscot C, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):63–7

Altered RET gene mRNA expression in Hirschsprung's disease. Kusafuka T, et al. **J Pediatr Surg** 1997 Apr; 32(4):600–4

Trypsin inhibitor polymorphism: multigene family expression and posttranslational modification. Quillien L, et al. **J Protein Chem** 1997 Apr;16(3):195–203

Vascular endothelial growth factor. Expression in human vulvar neoplastic and nonneoplastic tissues. Doldi N, et al. **J Reprod Med** 1996 Nov;41(11):844–8

VH4-34 (VH4.21) gene expression in the chronic arthritides of childhood: studies of associations with anti-lipid A antibodies, HLA antigens, and clinical features. Miller JJ 3rd, et al. **J Rheumatol** 1996 Dec;23(12):2132–9

Hepatic glutaminase gene expression in the tumor-bearing rat. Elgadi KM, et al. **J Surg Res** 1997 Apr;69(1):33–9

Monocyte chemoattractant protein-1 mRNA expression in the human burn wound. Gibran NS, et al. **J Surg Res** 1997 Jun;70(1):1–6

Enterocytic gene expression is altered in experimental gastroschisis. Srinathan SK, et al. **J Surg Res** 1997 Feb 15;68(1):1–6

Sepsis impairs anastomotic collagen gene expression and synthesis: a possible role for nitric oxide. Thornton FJ, et al. **J Surg Res** 1997 Apr;69(1):81–6

Identification of altered gene expression in skeletal muscle during sepsis using differential display. Tiao GM, et al. **J Surg Res** 1996 Jul 15;64(1):63–7

Mechanism of intestinal mucosal immune dysfunction following trauma-hemorrhage: increased apoptosis associated with elevated Fas expression in Peyer's patches. Xu YX, et al. **J Surg Res** 1997 Jun;70(1):55–60

Enhanced expression of the endothelin-1 gene in blood vessels of DOCA-salt hypertensive rats: correlation with vascular structure. Schiffrin EL, et al. **J Vasc Res** 1996 May-Jun;33(3):235–48

Structural organization and chromosomal assignment of the swine endothelin-1 gene. Kojima M, et al. **J Vet Med Sci** 1997 Jun;59(6):431–5

High-efficiency transduction of human lymphoid progenitor cells and expression in differentiated T cells. An DS, et al. **J Virol** 1997 Feb;71(2):1397–404

Long-lasting adenovirus transgene expression in mice through neonatal intrathymic tolerance induction without the use of immunosuppression. DeMatteo RP, et al. **J Virol** 1997 Jul;71(7):5330–5

High level of transgene expression in cell cultures and in the mouse by replication-incompetent adenoviruses harboring modified VAI genes. Eloit M, et al. **J Virol** 1997 Jul;71(7):5375–81

The relationship between tumor necrosis factor and human immunodeficiency virus gene expression in lymphoid tissue. Li Q, et al. **J Virol** 1997 Sep;71(9):7080–2

Characterization of late gene transcripts expressed during vegetative replication of human papillomavirus type 31b. Ozbun MA, et al. **J Virol** 1997 Jul;71(7):5161–72

Adenovirus vector-infected cells can escape adenovirus antigen-specific cytotoxic T-lymphocyte killing in vivo. Wadsworth SC, et al. **J Virol** 1997 Jul;71(7):5189–96

Efficient long-term gene transfer into muscle tissue of immunocompetent mice by adeno-associated virus vector. Xiao X, et al. **J Virol** 1996 Nov;70(11):8098–108

Green fluorescent protein as a tool for screening recombinant baculoviruses. Eriksson S, et al. **J Virol Methods** 1996 May; 59(1–2):127–33

A two plasmid co-expression system in Escherichia coli for the production of virion-like reverse transcriptase of the human immunodeficiency virus type 1. Jonckheere H, et al. **J Virol Methods** 1996 Sep;61(1–2):113–25

Detection of baculovirus gene expression in insect cells and larvae by low light video image analysis. Langridge WH, et al. **J Virol Methods** 1996 Sep;61(1–2):151–6

Expression and purification of an Epstein-Barr virus encoded 23-kDa protein and characterization of its immunological properties. Reischl U, et al. **J Virol Methods** 1996 Mar; 57(1):71–85

Gene expressions of basic fibroblast growth factor and its receptor in healing of rat retina after laser photocoagulation. Yamamoto C, et al. **Jpn J Ophthalmol** 1996;40(4):480–90

Increased expression of insulin-like growth factor 2 in hepatocellular carcinoma is primarily regulated at the transcriptional level. Sohda T, et al. **Lab Invest** 1996 Sep; 75(3):307–11

Intrinsic multidrug class 1 and 2 gene expression and localization in rat and human mammary tumors. Zhang F, et al. **Lab Invest** 1996 Sep;75(3):413–26 (133 ref.)

Expression of thrombopoietin and thrombopoietin receptor MPL in human leukemia-lymphoma and solid tumor cell lines. Graf G, et al. **Leuk Res** 1996 Oct;20(10):831–8

Cytokine gene expression in intestine of rat during the postnatal developmental period: increased IL-1 expression at weaning. Mengheri E, et al. **Life Sci** 1996;59(15):1227–36

Vitamin D receptor gene expression in human pituitary gland. Pérez-Fernandez R, et al. **Life Sci** 1997;60(1):35–42

Tyrosine hydroxylase gene expression in varying forms of human pheochromocytoma [published erratum appears in Life Sci 1997;60(12):961–2] Tümer N, et al. **Life Sci** 1996; 59(19):1659–65

Expression and localization of inhibin/activin subunits and activin receptors in the normal rat prostate. Ying SY, et al. **Life Sci** 1997;60(6):397–401

Increased hepatic delta 6-desaturase activity with growth hormone expression in the MG101 transgenic mouse. Nakamura MT, et al. **Lipids** 1996 Feb;31(2):139–43

The identification of novel sequences expressed in the mouse notochord. Sowden JC, et al. **Mamm Genome** 1997 Jan; 8(1):42–4

Tropoelastin gene expression in optic nerve heads of normal and glaucomatous subjects. Pena JD, et al. **Matrix Biol** 1996 Nov;15(5):323–30

Allotopic expression of yeast mitochondrial maturase to study mitochondrial import of hydrophobic proteins. Claros MG, et al. **Methods Enzymol** 1996;264:389–403

Allotopic expression of mitochondrial ATP synthase genes in nucleus of Saccharomyces cerevisiae. Gray RE, et al. **Methods Enzymol** 1996;264:369–89

In organello mitochondrial protein and RNA synthesis systems from Saccharomyces cerevisiae. Poyton RO, et al. **Methods Enzymol** 1996;264:36–42

Human placental alkaline phosphatase as a marker for gene expression. Bates P, et al. **Methods Mol Biol** 1997;63:41–8

Methods for double detection of gene expression. Combined in situ hybridization and immunocytochemistry or histochemistry. Conlon RA. **Methods Mol Biol** 1997; 63:271–4

Immunological screening of lambda-phage cDNA expression libraries. Hurst HC. **Methods Mol Biol** 1997;69:155–9

Use of secreted alkaline phosphatase as a reporter of gene

expression in mammalian cells. Kain SR. **Methods Mol Biol** 1997;63:49–60

Analysis of gene expression in hypothalamus in obese and normal mice using differential display. Maratos-Flier E, et al. **Methods Mol Biol** 1997;85:297–304

Identification and cloning of differentially expressed genes by DDRT-PCR. Rohde M, et al. **Methods Mol Biol** 1997; 67:419–30

Strategies for gene fusions. Ståhl S, et al. **Methods Mol Biol** 1997;62:37–54

Detection and isolation of differentially expressed genes by differential display. Zhu W, et al. **Methods Mol Biol** 1997; 68:211–20

cDNA cloning and characterization of rat C5a anaphylatoxin receptor. Akatsu H, et al. **Microbiol Immunol** 1997; 41(7):575–80

Strategies for achieving high-level expression of genes in Escherichia coli. Makrides SC. **Microbiol Rev** 1996 Sep; 60(3):512–38 (623 ref.)

Effects of 3' untranslated and intergenic regions on gene expression in Trypanosoma cruzi. Nozaki T, et al. **Mol Biochem Parasitol** 1995 Dec;75(1):55–67

The effect of matrix attached regions (MAR) and specialized chromatin structure (SCS) on the expression of gene constructs in cultured cells and in transgenic mice. Attal J, et al. **Mol Biol Rep** 1995–96;22(1):37–46

The use of RNA probes for the analysis of gene expression. Belin D. **Mol Biotechnol** 1997 Apr;7(2):153–63

Replication-competent retroviral vectors for expressing genes in avian cells in vitro and in vivo. Bell EJ, et al. **Mol Biotechnol** 1997 Jun;7(3):289–98 (45 ref.)

Comparison of effect of tumor promoter treatments on DNA methylation status and gene expression in B6C3F1 and C57BL/6 mouse liver and in B6C3F1 mouse liver tumors. Counts JL, et al. **Mol Carcinog** 1997 Feb;18(2):97–106

Altered gene expression in spontaneous hepatocellular carcinomas from male B6C3F1 mice. Romach EH, et al. **Mol Carcinog** 1997 May;19(1):31–8

Competitive RT-PCR for studying gene expression in micro biopsies. Hullin R, et al. **Mol Cell Biochem** 1997 Jul; 172(1–2):89–95

Expression of calcium-binding protein regucalcin mRNA in hepatoma cells. Makino R, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):85–90

Actin gene expression in developing sea urchin embryos. Crain WR Jr, et al. **Mol Cell Biol** 1981 Aug;1(8):711–20

The Ras-JNK pathway is involved in shear-induced gene expression. Li YS, et al. **Mol Cell Biol** 1996 Nov; 16(11):5947–54

Expression of E1A in terminally differentiated muscle cells reactivates the cell cycle and suppresses tissue-specific genes by separable mechanisms. Tiainen M, et al. **Mol Cell Biol** 1996 Oct;16(10):5302–12

Assignment of the chloramphenicol resistance gene to mitochondrial deoxyribonucleic acid and analysis of its expression in cultured human cells. Wallace DC. **Mol Cell Biol** 1981 Aug;1(8):697–710

Expression of amphiregulin in the sheep mammary gland. Forsyth IA, et al. **Mol Cell Endocrinol** 1997 Jan 3; 126(1):41–8

Differential expression of the growth hormone receptor and its transcript in bovine uterus and placenta. Kölle S, et al. **Mol Cell Endocrinol** 1997 Aug 8;131(2):127–36

Expression of follicle stimulating hormone-receptor mRNA during gonadal development. O'Shaughnessy PJ, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):169–75 (46 ref.)

Expression of follicle-stimulating hormone-receptor mRNA alternate transcripts in bovine granulosa cells during luteinization in vivo and in vitro. Rajapaksha WR, et al. **Mol Cell Endocrinol** 1996 Jun 18;120(1):25–30

The unique endometrial expression and genomic organization of the porcine IGFBP-2 gene. Song S, et al. **Mol Cell Endocrinol** 1996 Jul 1;120(2):193–202

Expression of biologically active fusion genes encoding the common alpha subunit and either the CG beta or FSH beta subunits: role of a linker sequence. Sugahara T, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):71–7

Otlx2, an Otx-related homeobox gene expressed in the pituitary gland and in a restricted pattern in the forebrain. Muccielli ML, et al. **Mol Cell Neurosci** 1996;8(4):258–71

NCAM requires a cytoplasmic domain to function as a neurite outgrowth-promoting neuronal receptor. Saffell JL, et al. **Mol Cell Neurosci** 1995 Dec;6(6):521–31

Differential expression of LIM homeobox genes among motor neuron subpopulations in the developing chick brain stem. Varela-Echavarría A, et al. **Mol Cell Neurosci** 1996; 8(4):242–57

Overexpression of c-src and n-src in the developing Xenopus retina differentially impairs axonogenesis. Worley TL, et al. **Mol Cell Neurosci** 1997;9(4):276–92

Expression and localization of transforming growth factor-beta receptors type I and type II in the rat ventral prostate during regression. Kim IY, et al. **Mol Endocrinol** 1996 Jan;10(1):107–15

Comparative analysis of expression of the SalI restriction-modification system in Escherichia coli and Streptomyces. Alvarez MA, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):74–80

The progressive rise in the expression of alpha crystallin B chain in human endometrium is initiated during the implantation window: modulation of gene expression by steroid hormones. Gruidl M, et al. **Mol Hum Reprod** 1997 Apr;3(4):333–42

Transient expression of luciferase reporter gene after lipofection in oyster (Crassostrea gigas) primary cell cultures. Boulo V, et al. **Mol Mar Biol Biotechnol** 1996 Sep;5(3):167–74

Unexpected behavior of a gene trap vector comprising a fusion between the Sh ble and the lacZ genes. Camus A, et al. **Mol Reprod Dev** 1996 Nov;45(3):255–63

Developmental expression, intracellular localization, and selenium content of the cysteine-rich protein associated with the mitochondrial capsules of mouse sperm. Cataldo L, et al. **Mol Reprod Dev** 1996 Nov;45(3):320–31

Isolation, characterization, and expression of cDNAs encoding the medaka (Oryzias latipes) ovarian follicle cytochrome P-450 aromatase. Fukada S, et al. **Mol Reprod Dev** 1996 Nov;45(3):285–90

Severe position effects imposed on a 1 kb mouse whey acidic protein gene promoter are overcome by heterologous matrix attachment regions. McKnight RA, et al. **Mol Reprod Dev** 1996 Jun;44(2):179–84

Temporal patterns of gene expression of G1-S cyclins and cdks during the first and second mitotic cell cycles in mouse embryos. Moore GD, et al. **Mol Reprod Dev** 1996 Nov; 45(3):264–75

Distinct transcripts are recognized by sense and antisense riboprobes for a member of the murine HSP70 gene family, HSP70.2, in various reproductive tissues. Murashov AK? Wolgemuth DJ. **Mol Reprod Dev** 1996 Jan;43(1):17–24

Sequence analysis of the conserved protamine gene cluster shows that it contains a fourth expressed gene. Schlüter G, et al. **Mol Reprod Dev** 1996 Jan;43(1):1–6

G protein gene expression during mouse oocyte growth and maturation, and preimplantation embryo development. Williams CJ, et al. **Mol Reprod Dev** 1996 Jul;44(3):315–23

DNA methylation and gene expression: introduction and overview [comment] Klein CB, et al. **Mutat Res** 1997 Apr; 386(2):103–5 (5 ref.). Comment on: Mutat Res 1997 Apr;386(2):107–18. Comment on: Mutat Res 1997 Apr;386(2):119–30. Comment on: Mutat Res 1997 Apr;386(2):131–40. Comment on: Mutat Res 1997 Apr;386(2):141–53. Comment on: Mutat Res 1997 Apr;386(2):153–61.

Use of a cDNA microarray to analyse gene expression patterns in human cancer [see comments] DeRisi J, et al. **Nat Genet** 1996 Dec;14(4):457–60. Comment in: Nat Genet 1996 Dec;14(4):367–70.

Expression of cell-cycle regulators p27Kip1 and cyclin E, alone and in combination, correlate with survival in young breast cancer patients [see comments] Porter PL, et al. **Nat Med** 1997 Feb;3(2):222–5. Comment in: Nat Med 1997 Feb;3(2):152–4.

Crustacean appendage evolution associated with changes in Hox gene expression. Averof M, et al. **Nature** 1997 Aug 14;388(6643):682–6

Marking of active genes on mitotic chromosomes. Michelotti EF, et al. **Nature** 1997 Aug 28;388(6645):895–9

Parathyroid hormone gene expression in Hyp mice fed a low-phosphate diet. Marks KH, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1581–5

Alteration of growth-related proto-oncogene expression in diabetic glomeruli by a specific endothelin receptor A antagonist. Nakamura T, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1528–31

Cloning and expression of the rat atrophin-1 (DRPLA disease gene) homologue. Loev SJ, et al. **Neurobiol Dis** 1995 Jun; 2(3):129–38

Overexpression of Bcl-2 attenuates MPP+, but not 6-ODHA, induced cell death in a dopaminergic neuronal cell line. Oh YJ, et al. **Neurobiol Dis** 1995 Jun;2(3):157–67

Expression of the ubiquitin genes in brain of normal and Fe/Dextran injected rats. Adamo AM, et al. **Neurochem Res** 1997 Apr;22(4):345–50

Expression of the putative transcription factor NOR-1 in the nervous, the endocrine and the immune systems and the developing brain of the rat. Maruyama K, et al. **Neuroendocrinology** 1997 Jan;65(1):2–8

Decreased expression of full-length mRNA for cBCD541 does not correlate with spinal muscular atrophy phenotype severity. Nishio H, et al. **Neurology** 1997 May;48(5):1266–70

Modulation of gene expression rather than monoamine oxidase inhibition: (–)-deprenyl-related compounds in controlling neurodegeneration. Tatton WG, et al. **Neurology** 1996 Dec;47(6 Suppl 3):S171–83 (205 ref.)

Naked DNA transport and expression in mammalian cells. Wolff JA. **Neuromuscul Disord** 1997 Jul;7(5):314–8 (32 ref.)

Persistent expression of genes of the enhancer of split complex suppresses neural development in Drosophila. Nakao K, et al. **Neuron** 1996 Feb;16(2):275–86

Cerebral ischemia alters the regional hippocampal expression of the rat m1 muscarinic acetylcholine receptor gene. Hsu JC, et al. **Neurosci Lett** 1996 Nov 22;219(2):87–90

No difference in the expression of the D4 gene in post-mortem frontal cortex from controls and schizophrenics. Mulcrone J, et al. **Neurosci Lett** 1996 Nov 29;219(3):163–6

Changes in gene expression for skin-type fatty acid binding protein in hypoglossal motor neurons following nerve crush. Owada Y, et al. **Neurosci Lett** 1997 Feb 14; 223(1):25–8

Localization and gene expression of the receptor for pituitary adenylate cyclase-activating polypeptide in the rat brain. Shioda S, et al. **Neurosci Res** 1997 Aug;28(4):345–54

Repression of vasopressin gene expression by glucocorticoids in transgenic mice: evidence of a direct mechanism mediated by proximal 5' flanking sequence. Burke ZD, et al. **Neuroscience** 1997 Jun;78(4):1177–85

Hypoxia-induced Fos expression in neurons projecting to the pressor region in the rostral ventrolateral medulla. Hirooka Y, et al. **Neuroscience** 1997 Oct;80(4):1209–24

Effects of pilocarpine and kainate-induced seizures on N-methyl-D-aspartate receptor gene expression in the rat hippocampus. Lasón W, et al. **Neuroscience** 1997 Jun; 78(4):997–1004

Cell density increases Bcl-2 and Bcl-x expression in addition to survival of cultured cerebellar granule neurons. Ohga Y, et al. **Neuroscience** 1996 Aug;73(4):913–7

Differential c-fos expression in the nucleus of the solitary tract and spinal cord following noxious gastric distention in the rat. Traub RJ, et al. **Neuroscience** 1996 Oct; 74(3):873–84

The role of the near upstream sequence in hypoxia-induced expression of the erythropoietin gene. Gupta M, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4768–74

Preparation of a differentially expressed, full-length cDNA expression library by RecA-mediated triple-strand formation with subtractively enriched cDNA fragments. Hakvoort TB, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3478–80

Expression of bovine mitochondrial tRNASer GCU derivatives in Escherichia coli. Hayashi I, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3503–7

Fission yeast genes which disrupt mitotic chromosome segregation when overexpressed. Javerzat JP, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4676–83

Differential expression of the human ST5 gene in HeLa-fibroblast hybrid cell lines mediated by YY1: evidence that YY1 plays a part in tumor suppression. Lichy JH, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4700–8

Ordered differential display: a simple method for systematic comparison of gene expression profiles. Matz M, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2541–2

Trauma and alkali burns induce distinct patterns of cytokine gene expression in the rat cornea. Planck SR, et al. **Ocul Immunol Inflamm** 1997 Jun;5(2):95–100

Oncogenic activation of the tyrosine kinase domain of the human trk proto-oncogene by fusion to a cell adhesion molecule. Albor A, et al. **Oncogene** 1996 Oct 17; 13(8):1755–63

The acute promyelocytic leukemia PML-RAR alpha protein induces hepatic preneoplastic and neoplastic lesions in transgenic mice. David G, et al. **Oncogene** 1997 Apr 3; 14(13):1547–54

The product of the v-src-inducible gene nr-13 is a potent anti-apoptotic factor. Mangeney M, et al. **Oncogene** 1996 Oct 3;13(7):1441–6

Suppression of the malignant phenotype of human glioma cells by overexpression of manganese superoxide dismutase. Zhong W, et al. **Oncogene** 1997 Jan 30;14(4):481–90

Transgenic mice carrying the human KRAS oncogene under the control of a thyroglobulin promoter: KRAS expression in thyroids analyzed by in situ hybridization. Chiappetta G, et al. **Oncol Res** 1996;8(2):85–93

Increased cytokine gene expression in rat retina following transient ischemia. Hangai M, et al. **Ophthalmic Res** 1996; 28(4):248–54

Ligand-induced regulation of glucagon-like peptide-I receptor function and expression in insulin-secreting beta cells. Fehmann HC, et al. **Pancreas** 1996 Oct;13(3):273–82

The influence of transforming growth factor beta 1 on the expression of genes coding for matrix metalloproteinases and tissue inhibitors of metalloproteinases during regeneration from cerulein-induced pancreatitis. Müller-Pillasch F, et al. **Pancreas** 1997 Aug;15(2):168–75

Overexpression of intercellular adhesion molecule-1 (ICAM-1) in pancreatic adenocarcinoma in comparison with normal pancreas. Shimoyama S, et al. **Pancreas** 1997 Mar;14(2):181–6

Profilin gene expression and regulation in a temperature-sensitive breast cancer cell line: tsFT101. Cao Y, et al. **Pflugers Arch** 1997 Aug;434(4):341–5

Use of a bicistronic GFP-expression vector to characterise ion channels after transfection in mammalian cells. Trouet D, et al. **Pflugers Arch** 1997 Sep;434(5):632–8

Imaging brain structure and function, infection and gene expression in the body using light. Benaron DA, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):755–61 (18 ref.)

Developmental expression of placental trophoblast P-450 cholesterol side-chain cleavage, adrenodoxin and delta 5-3 beta-hydroxysteroid dehydrogenase/isomerase messenger ribonucleic acids during baboon pregnancy. Babischkin JS, et al. **Placenta** 1996 Nov;17(8):595–602

Expression of the facilitated glucose transporters (GLUT1 and GLUT3) by a choriocarcinoma cell line (JAr) and cytotrophoblast cells in culture. Clarson LH, et al. **Placenta** 1997 May;18(4):333–9

The pattern of expression of insulin-like growth factor (IGF). IGF-I receptor and IGF binding protein (IGFBP) mRNAs in the rhesus monkey placenta suggests a paracrine mode of IGF-IGFBP interaction in placental development. Coulter CL, et al. **Placenta** 1996 Sep;17(7):451–60

Analysis of MHC class I expression in equine trophoblast cells using in situ hybridization. Maher JK, et al. **Placenta** 1996 Jul-Aug;17(5–6):351–9

Expression of stromelysin-3 in the human placenta and placental bed. Maquoi E, et al. **Placenta** 1997 May; 18(4):277–85

Membrane-type matrix metalloproteinase-1 expression at the site of human placentation. Nawrocki B, et al. **Placenta** 1996 Nov;17(8):565–72

Expression of G proteins in human placentae from molar pregnancies. Petit A, et al. **Placenta** 1996 Jul–Aug; 17(5–6):337–43

Differential expression of protein kinase C isoforms in the human placenta. Ruzycky AL, et al. **Placenta** 1996 Sep; 17(7):461–9

Expression of prostacyclin and thromboxane synthases in placenta and placental bed after pre-eclamptic pregnancies. Wetzka B, et al. **Placenta** 1996 Nov;17(8):573–81

Two plasma membrane H(+)-ATPase genes expressed in guard cells of Vicia faba are also expressed throughout the plant. Hentzen AE, et al. **Plant Cell Physiol** 1996 Jul; 37(5):650–9

Preparation of a monoclonal antibody against soybean nodule uricase (nod-35), and immunoblot analysis of the expression of nod-35 in tissues of various legumes. Tajima S, et al. **Plant Cell Physiol** 1996 Dec;37(8):1188–92

Tissue-specific expression conferred by the S-adenosyl-L-methionine synthetase promoter of Arabidopsis thaliana in transgenic poplar. Vander Mijnsbrugge K, et al. **Plant Cell Physiol** 1996 Dec; 37(8):1108–15

Differential expression of three genes for different beta-tubulin isotypes during the initial culture of Zinnia mesophyll cells that divide and differentiate into tracheary elements. Yoshimura T, et al. **Plant Cell Physiol** 1996 Dec; 37(8):1167–76

Application of differential display RT-PCR to the analysis of gene expression in a plant-fungus interaction. Benito EP, et al. **Plant Mol Biol** 1996 Dec;32(5):947–57

An improved green fluorescent protein gene as a vital marker in plants. Pang SZ, et al. **Plant Physiol** 1996 Nov; 112(3):893–900

In vivo gene expression of type 1 and type 2 cytokines in synovial tissues from patients in early stages of rheumatoid, reactive, and undifferentiated arthritis. Kotake S, et al. **Proc Assoc Am Physicians** 1997 May;109(3):286–301

Toward a molecular definition of long-term memory storage. Bailey CH, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13445–52 (69 ref.)

Temporal mapping of gene expression levels during the differentiation of individual primary hematopoietic cells. Cheng T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13158–63

Efficient photoreceptor-targeted gene expression in vivo by recombinant adeno-associated virus. Flannery JG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6916–21

Muscarinic acetylcholine receptor expression in memory circuits: implications for treatment of Alzheimer disease. Levey AI. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):13541–6 (64 ref.)

Long-range disruption of gene expression by a selectable marker cassette. Pham CT, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13090–5

Parallel human genome analysis: microarray-based expression monitoring of 1000 genes. Schena M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10614–9

Gene expression from plasmids containing the araBAD promoter at subsaturating inducer concentrations represents mixed populations. Siegele DA, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8168–72

Divergent and conserved features in the spatial expression of the Drosophila pseudoobscura esterase-5B gene and the esterase-6 gene of Drosophila melanogaster. Tamarina NA, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7735–41

Vascular MADs: two novel MAD-related genes selectively inducible by flow in human vascular endothelium. Topper JN, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):9314–9

Production of the third component of complement (C3) by peripheral polymorphonuclear neutrophils of the patients with rheumatoid arthritis. Yu CL, et al. **Proc Natl Sci Counc Repub China B** 1995 Oct;19(4):225–32

The formation of DNA methylation patterns and the silencing of genes. Jost JP, et al. **Prog Nucleic Acid Res Mol Biol** 1997;57:217–48 (160 ref.)

Copper-regulatory domain involved in gene expression. Winge DR. **Prog Nucleic Acid Res Mol Biol** 1998;58:165–95 (132 ref.)

Negative effect of sequential serine codons on expression of foreign genes in Escherichia coli. Bula C, et al. **Protein Expr Purif** 1996 Feb;7(1):92–103

Eukaryotic expression systems: a comparison. Geisse S, et al. **Protein Expr Purif** 1996 Nov;8(3):271–82 (111 ref.)

Mechanisms leading to the expression of recessive alleles: the use of polymorphic microsatellites and whole-chromosome painting probes to analyze mouse tumors, mutants, and micronuclei. Caspary WJ, et al. **Recent Results Cancer Res** 1997;143:161–82 (82 ref.)

Characterization of gene expression of VIP and VIP1-receptor in rat peritoneal lymphocytes and macrophages. Delgado M, et al. **Regul Pept** 1996 Apr 23; 62(2–3):161–6

Endothelin expression in human megakaryoblastic leukemia cell lines and normal platelet precursors. Mathieu MN, et al. **Regul Pept** 1997 Jan 29;68(2):91–7

Insulin gene expression in immortalized rat hippocampal and pheochromocytoma-12 cell lines. Singh BS, et al. **Regul Pept** 1997 Mar 12;69(1):7–14

Hepatic and extrahepatic angiotensinogen gene expression in rats with acute nephrotic syndrome. Ibarra-Rubio ME, et al. **Ren Fail** 1997 May;19(3):389–99

Cloning, sequencing and expression of stem cell factor (c-kit ligand) cDNA of brushtail possum (Trichosurus vulpecula). Greenwood PJ, et al. **Reprod Fertil Dev** 1996;8(4):789–95

Expression of nerve growth factor and neurotrophin receptors in testicular cells suggest novel roles for neurotrophins outside the nervous system. Seidl K, et al. **Reprod Fertil Dev** 1996;8(7):1075–87

Bovine granulosa cells express extracellular matrix proteins and their regulators during luteinization in culture. Zhao Y, et al. **Reprod Fertil Dev** 1996;8(2):259–66

Changes in expression of the prolactin and growth hormone gene during different reproductive stages in the pituitary gland of turkeys. Karatzas CN, et al. **Reprod Nutr Dev** 1997;37(1):69–79

The deleterious effects of human erythropoietin gene driven by the rabbit whey acidic protein gene promoter in transgenic rabbits. Massoud M, et al. **Reprod Nutr Dev** 1996; 36(5):555–63

Chromatin structure and gene expression in the preimplantation mammalian embryo. Thompson EM. **Reprod Nutr Dev** 1996;36(6):619–35 (91 ref.)

Clonal analysis suggests provirus expression in a subpopulation of human malignant trophoblast cells harbouring the human T cell lymphotropic virus type-I genome. Liu X, et al. **Res Virol** 1996 Jan–Feb;147(1):45–51

Expression of the epidermal growth factor receptor gene in human intestinal metaplasia: a preliminary report. Granelli P, et al. **Scand J Gastroenterol** 1997 May;32(5):485–9

Neoteny in lymphocytes: Rag1 and Rag2 expression in germinal center B cells. Han S, et al. **Science** 1996 Dec 20;274(5295):2094–7

Reexpression of RAG-1 and RAG-2 genes in activated mature mouse B cells. Hikida M, et al. **Science** 1996 Dec 20;274(5295):2092–4

Bcl-2: prolonging life in a transgenic mouse model of familial amyotrophic lateral sclerosis. Kostic V, et al. **Science** 1997 Jul 25;277(5325):559–62

BMP expression in duck interdigital webbing: a reanalysis [letter] Laufer E, et al. **Science** 1997 Oct 10;278(5336):305

Gene expression profiles in normal and cancer cells. Zhang L, et al. **Science** 1997 May 23;276(5316):1268–72

Immediate early gene expression in response to cerebral ischemia. Friend or foe? Akins PT, et al. **Stroke** 1996 Sep; 27(9):1682–7 (55 ref.)

Focal expression of intercellular adhesion molecule-1 in the human carotid bifurcation. Endres M, et al. **Stroke** 1997 Jan;28(1):77–82

Increase in elastin gene expression and protein synthesis in arterial smooth muscle cells derived from patients with Moyamoya disease. Yamamoto M, et al. **Stroke** 1997 Sep; 28(9):1733–8

Expression of wild-type p53 tumor suppressor gene and its possible involvement in the apoptosis of thyroid tumors. Kikuchi S, et al. **Surg Today** 1997;27(3):226–33

Overexpression of bax enhances the radiation sensitivity in human breast cancer cells. Sakakura C, et al. **Surg Today** 1997;27(1):90–3

Signal transduction and gene expression in the eye: a contemporary view of the pro-inflammatory, anti-inflammatory and modulatory roles of prostaglandins and other bioactive lipids. Bazan NG, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S23–34 (100 ref.)

Sphingomyelinase and phospholipase A2 regulate type I deiodinase expression in FRTL-5 cells. Pekary AE, et al. **Thyroid** 1997 Aug;7(4):647–54

TSH-receptor expression and human thyroid disease: relation to clinical, endocrine, and molecular thyroid parameters. Schuppert F, et al. **Thyroid** 1996 Dec;6(6):575–87

Differential expression of thyrotropin receptor mRNA in the porcine heart. Sellitti DF, et al. **Thyroid** 1997 Aug; 7(4):641–6

Accommodation of xenografts: expression of "protective genes" in endothelial and smooth muscle cells. Bach FH, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):56–8

Genes upregulated in ischemia-induced arteriosclerosis in rat aortic transplants. Chen J, et al. **Transplant Proc** 1997 Sep; 29(6):2559–60

Gene expression via direct injection of plasmid vector into the thymus. Li H, et al. **Transplant Proc** 1997 Jun;29(4):2220

Increased expression of transforming growth factor-beta during chronic rejection. Walgenbach KJ, et al. **Transplant Proc** 1996 Oct;28(5):2450

Expression of chemokine genes during rejection and long-term acceptance of cardiac allografts. Fairchild RL, et al. **Transplantation** 1997 Jun 27;63(12):1807–12

Regulation of transcription factor localization: fine-tuning of gene expression. Vandromme M, et al. **Trends Biochem Sci** 1996 Feb;21(2):59–64 (42 ref.)

Variegated gene expression in mice. Dobie K, et al. **Trends Genet** 1997 Apr;13(4):127–30 (43 ref.)

Of messages and meaning. Gardiner K, et al. **Trends Genet** 1997 Mar;13(3):92–3

Probing bacterial gene expression within host cells. Valdivia RH, et al. **Trends Microbiol** 1997 Sep;5(9):360–3 (16 ref.)

Identifying changes in gene expression in the nervous system: mRNA differential display. Livesey FJ, et al. **Trends Neurosci** 1996 Mar;19(3):84–8 (20 ref.)

Enhanced gene expression of transforming growth factor-alpha and c-met in rat urinary bladder cancer. Inui M, et al. **Urol Res** 1996;24(1):55–60

Expression of the PIP/GCDFP-15 gene and survival in breast cancer. Hähnel R, et al. **Virchows Arch** 1996 Dec; 429(6):365–9

HTLV-1 gene expression in adult T-cell leukemia cells elicits an NK cell response in vitro and correlates with cell rejection in SCID mice. Stewart SA, et al. **Virology** 1996 Dec 15;226(2):167–75

Expression in E. coli and purification of the active autoprotease P20 of classical swine fever virus. Muyldermans G, et al. **Virus Genes** 1996;13(2):135–42

Human immunodeficiency virus type 1 Rev-dependent effects on the late gene expression of recombinant human adenovirus. Williams RD, et al. **Virus Genes** 1996; 13(2):111–20

Arabidopsis thaliana expressing the cauliflower mosaic virus ORF VI transgene has a late flowering phenotype. Zijlstra C, et al. **Virus Genes** 1996;13(1):5–17

Expression of ubiquitin, actin, and actin-like genes in African swine fever virus infected cells. Ferreira C. **Virus Res** 1996 Sep;44(1):11–21

Prokaryotic expression of an immediate-early gene of human herpesvirus 6 and analysis of its viral antigen expression in human cells. Takeda K, et al. **Virus Res** 1996 Apr; 41(2):193–200

Temporal and spatial patterns of opsin gene expression in zebrafish (Danio rerio). Robinson J, et al. **Vis Neurosci** 1995 Sep–Oct;12(5):895–906

Expression of visual and nonvisual opsins in American chameleon. Kawamura S, et al. **Vision Res** 1997 Jul; 37(14):1867–71

[Two strains of genetically hypertensive rats, LH and SRH, have distinct profiles of postnatal expression of tropoelastin and type III collagen in the aortic wall] Holzenberger M, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):991–6 (Eng. Abstr.) **(Fre)**

[Structure and expression of the porcine skeletal muscle ryanodine receptor gene] Brenig B, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct;103(10):394–9 (Eng. Abstr.) **(Ger)**

[Cyclin D, CDK4 and p16 expression in colorectal cancer] Ikeda K, et al. **Nippon Rinsho** 1996 Apr;54(4):1054–9 (15 ref.) (Eng. Abstr.) **(Jpn)**

[RB gene expression in gastrointestinal tract] Monden T, et al. **Nippon Rinsho** 1996 Apr;54(4):965–71 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Vasoactive intestinal contractor (VIC)/mouse ET-2 and VIC receptor: biological activity, gene expression, and specific receptor] Saida K, et al. **Nippon Rinsho** 1996 Apr; 54(4):1115–21 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of the p16INK4, p15INK4B genes abnormality and the amplification of cyclin D1 gene in esophageal cancer] Takamura H, et al. **Nippon Rinsho** 1996 Apr;54(4):1043–8 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Expression of prolactin receptor gene in human decidua of early pregnancy] Tanaka S, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Dec; 48(12):1141–7 (Eng. Abstr.) **(Jpn)**

[Interaction between Epstein-Barr virus (EBV) gene expression and antibodies to EBV in nasopharyngeal carcinomas] Furukawa M, et al. **Rinsho Byori** 1996 Sep; 44(9):832–7 (Eng. Abstr.) **(Jpn)**

[Use of AmpliSensor to quantitate gene expression in small amounts of samples: comparison with the quantitative RT-PCR method using CCD imaging system] Yokoi H, et al. **Rinsho Byori** 1996 Sep;44(9):847–52 (Eng. Abstr.) **(Jpn)**

[Abnormal gene expression related with symptoms in inherited metabolic disease] Horiuchi M, et al. **Seikagaku** 1996 Oct;68(10):1654–7 (16 ref.) **(Jpn)**

[A novel method of subtraction cDNA hybridization allowing cloning of genes showing differential expression in cell micropopulations] Vasil'ev OL, et al. **Bioorg Khim** 1996 Dec;22(12):894–9 (Eng. Abstr.) **(Rus)**

[Characteristics of tyrosine hydroxylase gene expression in the brain of rats with different ethanol consumption after chronic alcoholic intoxication] Anokhina IP, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):63–5 **(Rus)**

[Characteristics of gene expression in human myoblasts during analysis of cells in primary and cloned cultures] Krokhina TB, et al. **Biull Eksp Biol Med** 1996 Sep; 122(9):314–7 **(Rus)**

[Cystathionase: catalytic activity of products of expression of cDNA fragments. Specific inhibition of native enzyme and fusion-protein by substrate-like O-substituted hydroxylamine] Gabibov AG, et al. **Dokl Akad Nauk** 1996 Sep;350(3):405–7 **(Rus)**

[Expression of corticoliberin (CRF) and somatostatin (SRIF) genes in accessory nonapeptidergic (magnocellular) neurosecretory nuclei in rat hypothalamus] Grinevich VV, et al. **Dokl Akad Nauk** 1996 Nov;351(2):275–7 **(Rus)**

[Expression of recombinant DNA RSVlacZ and pCMVlacZ in preimplantation rabbit embryos] Gogolevskii PA, et al. **Genetika** 1996 Aug;32(8):1045–50 (Eng. Abstr.) **(Rus)**

[The effect of noncanonical structures on the expression of chimeric genes in eukaryotic cells: in vivo study] Kraevskii VA. **Mol Biol (Mosk)** 1996 Sep–Oct;30(5):1086–95 **(Rus)**

[Expression of the human apolipoprotein A-I gene transferred in vitro into mammalian cells and in vivo into

rat liver] Perevozchikov AP, et al. **Mol Biol (Mosk)** 1997 Mar-Apr;31(2):216-23 **(Rus)**

[Problems in the study of structure and expression of milk protein genes] Popov LS. **Mol Biol (Mosk)** 1996 Nov-Dec; 30(6):1242-60 (139 ref.) **(Rus)**

[Expression of a hybrid protein between human gamma-interferon and alpha-fetoprotein in E. coli cells] Tat'kov SI, et al. **Mol Biol (Mosk)** 1996 Nov-Dec; 30(6):1299-306 **(Rus)**

[Synthesis, cloning, and expression in Escherichia coli cells of human alpha1-antitrypsin cDNA] Tikunova NV, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul-Sep;(3):36-40 (Eng. Abstr.) **(Rus)**

[Down's syndrome--effect of increased gene expression in chromosome 21 on the function of the immune and nervous system] Sustrová M, et al. **Bratisl Lek Listy** 1997 Apr; 98(4):221-8 (Eng. Abstr.) **(Slo)**

DRUG EFFECTS

Tyrosine kinase activation by PAF leads to downstream gene expression. Shukla SD. **Adv Exp Med Biol** 1996;416:153-5 (11 ref.)

Stimulation of NF-kappa B activation and gene expression by platelet-activating factor. Ye RD, et al. **Adv Exp Med Biol** 1996;416:143-51 (18 ref.)

Ethanol, flunitrazepam, and pentobarbital modulation of GABAA receptors expressed in mammalian cells and Xenopus oocytes. Harris RA, et al. **Alcohol Clin Exp Res** 1997 May;21(3):444-51

Involvement of NF-kappaB in silica-induced cyclooxygenase II gene expression in rat alveolar macrophages. Chen F, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L779-86

Regulation of SERCA 2 expression by thyroid hormone in cultured chick embryo cardiomyocytes. Fisher DJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H638-44

Botulinum-induced muscle paralysis alters metabolic gene expression and fatigue recovery. Gorin F, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R238-45

Dietary sodium effects on renin and angiotensinogen gene expression in preweanling WKY and SHR. Kirby RF, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1439-46

Dimethyl sulfoxide decreases interleukin-8-mediated neutrophil recruitment in the airways. Massion PP, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L838-43

Oxygen upregulates nitric oxide synthase gene expression in ovine fetal pulmonary artery endothelial cells. North AJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L643-9

Endotoxin stimulates gene expression of ROS-eliminating pathways in rat hepatic endothelial and Kupffer cells. Spolarics Z. **Am J Physiol** 1996 Apr;270(4 Pt 1):G660-6

Site selectivity of osteoblast gene expression response to thyroid hormone localized by in situ hybridization. Suwanwalaikorn S, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E212-7

Molecular mechanisms for somatostatin inhibition of c-fos gene expression. Todisco A, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 1):G721-6

In vitro and in vivo modulation of alpha- and beta-glucocorticoid-receptor mRNA in human bronchial epithelium. Korn SH, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1117-22

Towards genomic drug therapy with antisense oligonucleotides. Lönnberg H, et al. **Ann Med** 1996 Dec; 28(6):511-22 (88 ref.)

Preferential overexpression of a class MU glutathione S-transferase subunit in mouse liver by myristicin. Ahmad H, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):825-8

Relative levels of inhibition of p24 gene expression by different 20-mer antisense oligonucleotide sequences targeting nucleotides + 1129 to + 1268 of the HIV-1 gag genome: an analysis of mechanism. Anazodo MI, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):305-9

Advanced glycation end products induce expression of vascular endothelial growth factor by retinal Muller cells. Hirata C, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):712-5

Inhibition of the expression of inducible cyclooxygenase and proinflammatory cytokines by sesquiterpene lactones in macrophages correlates with the inhibition of MAP kinases. Hwang D, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):810-8

Concanavalin A directly stimulates bone-resorbing activity of osteoclasts and their gene expression of cathepsin K/OC-2. Kakudo S, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):600-4

Direct inhibition of the expression of cyclin D1 gene by sodium butyrate. Lallemand F, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):163-9

Adrenomedullin stimulates cAMP accumulation and inhibits atrial natriuretic peptide gene expression in cardiomyocytes. Sato A, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):311-4

Elicitors triggering the simultaneous gene expression of antibacterial proteins of the silkworm, Bombyx mori. Taniai K, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):783-90

Identification of a protein kinase C (PKC) activator, daphnoretin, that suppresses hepatitis B virus gene expression in human hepatoma cells. Chen HC, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1025-32

Ligand-induced differentiation of glucocorticoid receptor (GR) trans-repression and transactivation. Adcock IM, et al. **Biochem Soc Trans** 1996 May;24(2):267S

Melatonin regulated gene expression in pars tuberalis cells of the ovine pituitary investigated by differential display. Ross AW, et al. **Biochem Soc Trans** 1996 May;24(2):227S

Transplatin-modified oligo(2'-O-methyl ribonucleotide)s: a new tool for selective modulation of gene expression. Boudvillain M, et al. **Biochemistry** 1997 Mar 11; 36(10):2925-31

Antisense gene inhibition by C-5-substituted deoxyuridine-containing oligodeoxynucleotides. Gutierrez AJ, et al. **Biochemistry** 1997 Jan 28;36(4):743-8

Induction and repression of genes of the rat small intestine mucosa with excess and insufficiency of alimentary iron. Terentiev MA, et al. **Biochemistry (Mosc)** 1997 Feb; 62(2):145-8

Lovastatin inhibits gene expression of type-I scavenger receptor in THP-1 human macrophages. Umetani N, et al. **Biochim Biophys Acta** 1996 Oct 18;1303(3):199-206

Screening for bioactive compounds targeting the cellular signal transduction pathway using an RT-PCR-based bioassay system. Hakamatsuka T, et al. **Biol Pharm Bull** 1997 Apr;20(4):464-6

Ovarian expression, cellular localization, and hormonal regulation of rat secretory phospholipase A2: increased expression by interleukin-1 and by gonadotropins. Ben-Shlomo I, et al. **Biol Reprod** 1997 Aug;57(2):217-25

Activin-attenuated expression of transcripts encoding granulosa cell-derived insulin-like growth factor binding proteins 4 and 5 in the rat: a putative antiatretic effect. Choi D, et al. **Biol Reprod** 1997 Feb;56(2):508-15

Molecular cloning and hormone-dependent expression of rabbit Muc1 in the cervix and uterus. Hewetson A, et al. **Biol Reprod** 1997 Aug;57(2):468-77

Estrogen enhances endometrial estrogen receptor gene expression by a posttranscriptional mechanism in the ovariectomized ewe. Ing NH, et al. **Biol Reprod** 1996 Mar; 54(3):591-9

Effects of growth hormone and pregnancy on expression of growth hormone receptor, insulin-like growth factor-I, and insulin-like growth factor binding protein-2 and -3 genes in bovine uterus, ovary, and oviduct. Kirby CJ, et al. **Biol Reprod** 1996 Nov;55(5):996-1002

Effects of hormones and protein kinase inhibitors on expression of steroidogenic enzyme promoters in electroporated primary rat granulosa cells. Orly J, et al. **Biol Reprod** 1996 Jan;54(1):208-18

Effects of continuous inhibin administration on gonadotropin secretion and subunit gene expression in immature and adult male rats. Winters SJ, et al. **Biol Reprod** 1996 Dec; 55(6):1377-82

Progestin represses human connexin43 gene expression similarly in primary cultures of myometrial and uterine leiomyoma cells. Zhao K, et al. **Biol Reprod** 1996 Mar; 54(3):607-15

RT-PCR study on the effects of minimally modified low-density lipoproteins and probucol treatment on gene expressions of interleukin-1 and platelet-derived growth factor B-chain in human peripheral blood mononuclear cells. Li SR, et al. **Biol Signals** 1996 Sep-Oct;5(5):263-74

The delay in rat liver regeneration by choline is associated to alteration in c-myc expression. Sesca E, et al. **Boll Soc Ital Biol Sper** 1996 Jul-Aug;72(7-8):217-22

Action of the calcium channel blocker lacidipine on cardiac hypertrophy and endothelin-1 gene expression in stroke-prone hypertensive rats. Feron O, et al. **Br J Pharmacol** 1996 Jun;118(3):659-64

Inhibition by antioxidants of nitric oxide synthase expression in murine macrophages: role of nuclear factor kappa B and interferon regulatory factor 1. Hecker M, et al. **Br J Pharmacol** 1996 Aug;118(8):2178-84

Effects of an AT1 receptor antagonist, an ACE inhibitor and a calcium channel antagonist on cardiac gene expressions in hypertensive rats. Kim S, et al. **Br J Pharmacol** 1996 Jun;118(3):549-56

Expression of inducible cyclooxygenase mRNA in the mouse brain after systemic administration of bacterial lipopolysaccharide. Breder CD, et al. **Brain Res** 1996 Mar 25;713(1-2):64-9

Intraseptal administration of (1S,3R)-1-aminocyclopentane-1,3-dicarboxylic acid induces immediate early gene expression in lateral septal neurons. Kaatz KW, et al. **Brain Res** 1996 Feb 19; 709(2):205-14

Phencyclidine (PCP) acts at sigma sites to induce c-fos gene expression. Sharp JW. **Brain Res** 1997 May 30; 758(1-2):51-8

Attenuation of c-Fos expression in the rat lumbosacral spinal cord by morphine or tramadol following noxious colorectal distention. Traub RJ, et al. **Brain Res** 1995 Dec 1; 701(1-2):175-82

Intracerebroventricular CRF inhibits cold restraint-induced c-fos expression in the dorsal motor nucleus of the vagus and gastric erosions in rats. Wang L, et al. **Brain Res** 1996 Oct 14;736(1-2):44-53

Intracerebroventricular administration of beta-endorphin increases the expression of c-fos and of corticotropin-releasing factor messenger ribonucleic acid in the paraventricular nucleus of the rat. Wang XQ, et al. **Brain Res** 1996 Jan 29;707(2):189-95

Effect of morphine on proenkephalin gene expression in the rat brain. Yukhananov RY, et al. **Brain Res Bull** 1997; 43(3):349-56

Ovariectomy and estradiol treatment affect the dopamine transporter and its gene expression in the rat brain. Bossé R, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):343-6

Stimulation of the A2A adenosine receptor increases expression of the tyrosine hydroxylase gene. Chae HD, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):31-8

Glucocorticoid upregulation of glutamate dehydrogenase gene expression in vitro in astrocytes. Hardin-Pouzet H, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):324-8

End-capped antisense oligodeoxynucleotides effectively inhibit gene expression in vivo and offer a low-toxicity alternative to fully modified phosphorothioate oligodeoxynucleotides. Hebb MO, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):223-8

Regulation of galanin gene expression in the hypothalamic paraventricular nucleus of the obese Zucker rat by manipulation of dietary macronutrients. Mercer JG, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):202-8

Differential regional effects of long-term L-DOPA treatment on preproenkephalin and preprotachykinin gene expression in the striatum of 6-hydroxydopamine-lesioned rat. Salin P, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):311-21

Haloperidol regulates neurotensin gene expression in striatum of c-fos-deficient mice. Shearman LP, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):275-85

Bacterial endotoxin-induced gene expression in the choroid plexus and paraventricular and supraoptic hypothalamic nuclei of the sheep. Vellucci SV, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1-2):41-50

Effect of testosterone on growth hormone gene expression in the goldfish pituitary. Huggard D, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1039-46

Evidence for peroxynitrite as an oxidative stress-inducing compound of aqueous cigarette smoke fractions. Muller T, et al. **Carcinogenesis** 1997 Feb;18(2):295-301

Effect of polyamines on plasmid-mediated kanamycin resistance and kanamycin phosphotransferase gene expression in Escherichia coli. Nastri HG, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):711-7

Upregulation of vascular angiotensin II receptor gene expression by low-density lipoprotein in vascular smooth muscle cells. Nickenig G, et al. **Circulation** 1997 Jan 21; 95(2):473-8

Alcohol inhibits lipopolysaccharide-induced tumor necrosis factor alpha gene expression by peripheral blood mononuclear cells as measured by reverse transcriptase PCR in situ hybridization. Nair MP, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):392-8

Suppression of vascular transforming growth factor-beta1 and extracellular matrix gene expressions by cilazapril and nifedipine in hypertensive rats. Kim S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S355-6

Protooncogene expression in osteogenesis induced by bone morphogenetic protein. Sakano S, et al. **Clin Orthop** 1997 May;(338):240-6

Drugs that target gene expression: an overview. Cavalieri F. **Crit Rev Eukaryot Gene Expr** 1996;6(1):75-85 (82 ref.)

Dexamethasone-induced neuropeptide Y expression in rat islet endocrine cells. Rapid reversibility and partial prevention by insulin. Myrsén U, et al. **Diabetes** 1996 Oct; 45(10):1306-16

PDX-1 induces insulin and glucokinase gene expressions in alphaTC1 clone 6 cells in the presence of betacellulin. Watada H, et al. **Diabetes** 1996 Dec;45(12):1826-31

Direct effects of estradiol and tamoxifen on gene expressions of inhibit alpha- and beta A-subunits in rat granulosa cells in vitro. Tate S, et al. **Endocr J** 1996 Dec;43(6):621-8

Cell-specific induction of c-fos expression in the pituitary gland by estrogen. Allen DL, et al. **Endocrinology** 1997 May;138(5):2128-35

Prostaglandin A2 specifically represses insulin-like growth factor-I gene expression in C6 rat glioma cells. Bui T, et al. **Endocrinology** 1997 Mar;138(3):985-93

Growth hormone and prolactin stimulate the expression of rat preadipocyte factor-1/delta-like protein in pancreatic islets: molecular cloning and expression pattern during development and growth of the endocrine pancreas. Carlsson C, et al. **Endocrinology** 1997 Sep;138(9):3940-8

Effects of beta-adrenoceptor subtype stimulation on obese gene messenger ribonucleic acid and on leptin secretion in mouse brown adipocytes differentiated in culture. Deng C, et al. **Endocrinology** 1997 Feb;138(2):548-52

Transforming growth factor-beta and astrocytic conditioned medium influence luteinizing hormone-releasing hormone gene expression in the hypothalamic cell line GT1. Galbiati M, et al. **Endocrinology** 1996 Dec;137(12):5605-9

Thyroid hormone-induced expression of specific somatostatin receptor subtypes correlates with involution of the TtT-97 murine thyrotrope tumor. James RA, et al. **Endocrinology** 1997 Feb;138(2):719-24

Rapid modulation of the apoptosis regulatory genes, bcl-2 and bax by prolactin in rat Nb2 lymphoma cells. Leff MA, et al. **Endocrinology** 1996 Dec;137(12):5456-62

Species-specific glucocorticoid and 1,25-dihydroxyvitamin D responsiveness in mouse MC3T3-E1 osteoblasts: dexamethasone inhibits osteoblast differentiation and vitamin D down-regulates osteocalcin gene expression. Lian JB, et al. **Endocrinology** 1997 May;138(5):2117-27

Growth hormone induces somatostatin and insulin-like growth factor I gene expression in the cerebral hemispheres

of aging rats. López-Fernández J, et al. **Endocrinology** 1996 Oct;137(10):4384–91

Proglucagon gene expression is induced by gastrin-releasing peptide in a mouse enteroendocrine cell line. Lü F, et al. **Endocrinology** 1996 Sep;137(9):3710–6

Inhibin interferes with activin signaling at the level of the activin receptor complex in Chinese hamster ovary cells. Martens JW, et al. **Endocrinology** 1997 Jul;138(7):2928–36

Suppression of the expression of a pancreatic beta-cell form of the kinesin heavy chain by antisense oligonucleotides inhibits insulin secretion from primary cultures of mouse beta-cells. Meng YX, et al. **Endocrinology** 1997 May; 138(5):1979–87

Peroxisome proliferator-activated receptor gamma1 expression is induced during cyclic adenosine monophosphate-stimulated differentiation of alveolar type II pneumonocytes. Michael LF, et al. **Endocrinology** 1997 Sep;138(9):3695–703

Involvement of glucocorticoid-induced factor(s) in the stimulation of growth hormone expression in the fetal rat pituitary gland in vitro. Nogami H, et al. **Endocrinology** 1997 May;138(5):1810–5

Hepatic prolactin receptor gene expression increases in the sheep fetus before birth and after cortisol infusion. Phillips ID, et al. **Endocrinology** 1997 Mar;138(3):1351–4

Progesterone, in addition to estrogen, induces cyclin D1 expression in the murine mammary epithelial cell, in vivo. Said TK, et al. **Endocrinology** 1997 Sep;138(9):3933–9

Differential effect of age on transforming growth factor-beta 1 inhibition of prolactin gene expression versus secretion in rat anterior pituitary cells. Tan SK, et al. **Endocrinology** 1997 Mar;138(3):878–85

Effects of thyroid hormone on GLUT4 glucose transporter gene expression and NIDDM in rats. Torrance CJ, et al. **Endocrinology** 1997 Mar;138(3):1204–14

Temporal and cell-type specific expression of c-fos and c-jun protooncogenes in the mouse uterus after estrogen stimulation. Yamashita S, et al. **Endocrinology** 1996 Dec; 137(12):5468–75

Angiotensin II regulation of tyrosine hydroxylase gene expression in the neuronal cultures of normotensive and spontaneously hypertensive rats. Yu K, et al. **Endocrinology** 1996 Aug;137(8):3566–76

delta 9-Tetrahydrocannabinol increases proopiomelanocortin gene expression in the arcuate nucleus of the rat hypothalamus. Corchero J, et al. **Eur J Pharmacol** 1997 Apr 4;323(2-3):193–5

The effect of 5,8,11,14-eicosatetraynoic acid on endothelial cell gene expression. Stuhlmeier KM, et al. **Eur J Pharmacol** 1997 May 1;325(2-3):209–19

Tumour necrosis factor-alpha selectivity modulates expression of collagen genes in rat granulation tissue. Rapala K, et al. **Eur J Surg** 1997 Mar;163(3):207–14

Novel differentially expressed genes induced by kainic acid in hippocampus: putative molecular effectors of plasticity and injury. Pázmán C, et al. **Exp Neurol** 1997 Aug; 146(2):502–12

Nitrogen dioxide-induced expression of a 78 kDa protein in pulmonary artery endothelial cells. Li YD, et al. **Free Radic Biol Med** 1996;21(2):163–71

Chemical-activated luciferase gene expression (CALUX): a novel in vitro bioassay for Ah receptor active compounds in sediments and pore water. Murk AJ, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):149–60

Androgen inhibition of vitellogenin gene expression in tilapia (Oreochromis niloticus). Lazier CB, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):321–9

Surfactant enhances adenovirus-mediated gene expression in rabbit lungs. Jobe AH, et al. **Gene Ther** 1996 Sep;3(9):775–9

Effect of patient-derived lipids on in vitro expression of oncogenes by ovarian tumor cells. Gercel-Taylor C, et al. **Gynecol Obstet Invest** 1996;42(1):42–8

Wolff Award 1996. The actions of valproate and neurosteroids in a model of trigeminal pain. Cutrer FM, et al. **Headache** 1996 Nov-Dec;36(10):579–85

The effect of angiotensin II on myosin heavy chain expression in cultured myocardial cells. Shalitin N, et al. **In Vitro Cell Dev Biol Anim** 1996 Oct;32(9):573–8

1,25-(OH)2-vitamin D3 and calcipotriol induce IL-10 receptor gene expression in human epidermal cells. Michel G, et al. **Inflamm Res** 1997 Jan;46(1):32–4

Ecdysone and insect immunity: the maturation of the inducibility of the diptericin gene in Drosophila larvae. Meister M, et al. **Insect Biochem Mol Biol** 1996 Feb; 26(2):155–60

Dexamethasone suppressed gene expression and production of interleukin-10 by human peripheral blood mononuclear cells and monocytes. Fushimi T, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):13–8

Antagonism between estradiol and progestin on Bcl-2 expression in breast-cancer cells. Kandouz M, et al. **Int J Cancer** 1996 Sep 27;68(1):120–5

Erythropoietin gene expression by hydrogen peroxide. Imagawa S, et al. **Int J Hematol** 1996 Oct;64(3-4):189–95

Interaction between clenbuterol and run training: effects on exercise performance and MLC isoform content. Ingalls CP, et al. **J Appl Physiol** 1996 Mar;80(3):795–801

Selective induction of heparin-binding epidermal growth factor-like growth factor by methylglyoxal and 3-deoxyglucosone in rat aortic smooth muscle cells. The involvement of reactive oxygen species formation and a possible implication for atherogenesis in diabetes. Che W, et al. **J Biol Chem** 1997 Jul 18;272(29):18453–9

Androgenic induction of prostate-specific antigen gene is repressed by protein-protein interaction between the androgen receptor and AP-1/c-Jun in the human prostate cancer cell line LNCaP. Sato N, et al. **J Biol Chem** 1997 Jul 11;272(28):17485–94

Phorbol ester and interleukin-1 induce interleukin-6 gene expression in vascular smooth muscle cells via independent pathways. Beasley D. **J Cardiovasc Pharmacol** 1997 Mar; 29(3):323–30

Estrogen responsiveness of renal calbindin-D28k gene expression in rat kidney. Criddle RA, et al. **J Cell Biochem** 1997 Jun 1;65(3):340–8

Prostaglandin E2 stimulates insulin-like growth factor binding protein-4 expression and synthesis in cultured human articular chondrocytes: possible mediation by Ca(++)-calmodulin regulated processes. Di Battista JA, et al. **J Cell Biochem** 1997 Jun 1;65(3):408–19

Tyrosine kinase inhibition decreases Muc-1 expression in mouse epithelial cells. Wegner CC, et al. **J Cell Physiol** 1997 Feb;170(2):200–8

Dexamethasone increases leptin expression in humans in vivo. Papaspyrou-Rao S, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1635–7

Corticotropin-releasing factor up-regulates its own receptor gene expression in corticotropic adenoma cells in vitro. Sakai Y, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1229–34

D-glucose-induced dysmorphogenesis of embryonic kidney. Kanwar YS, et al. **J Clin Invest** 1996 Dec 1;98(11):2478–88

Overexpression of the TGFbeta-regulated zinc finger encoding gene, TIEG, induces apoptosis in pancreatic epithelial cells. Tachibana I, et al. **J Clin Invest** 1997 May 15;99(10):2365–74

Dynorphin regulates D1 dopamine receptor-mediated responses in the striatum: relative contributions of pre- and postsynaptic mechanisms in dorsal and ventral striatum demonstrated by altered immediate-early gene induction. Steiner H, et al. **J Comp Neurol** 1996 Dec 23;376(4):530–41

Noradrenaline increases the expression of the proenkephalin gene in cultured astroglial cells by acting on beta 1- and alpha 1-adrenoceptors. Hildebrand B, et al. **J Neurochem** 1996 May;66(5):1860–7

Interleukin-6 induces expression of peripherin and cooperates with Trk receptor signaling to promote neuronal differentiation in PC12 cells. Sterneck E, et al. **J Neurochem** 1996 Oct;67(4):1365–74

Endothelins induce Fos expression in neurons and glia in organotypic cultures of rat cerebellum. Sullivan AM, et al. **J Neurochem** 1996 Oct;67(4):1409–18

Involvement of neurosteroids in the effect of the endogenous benzodiazepine receptor ligand octadecaneuropeptide (ODN) on gonadotropin-releasing hormone gene expression in rat brain. Li S, et al. **J Neuroendocrinol** 1997 Mar;9(3):229–33

The modulatory role of estrogens on corticotropin-releasing factor gene expression in the hypothalamic paraventricular nucleus of ovariectomized rats: role of the adrenal gland. Paulmyer-Lacroix O, et al. **J Neuroendocrinol** 1996 Jul; 8(7):515–9

Dexamethasone increases growth hormone (GH)-releasing hormone (GRH) receptor mRNA levels in cultured rat anterior pituitary cells. Tamaki M, et al. **J Neuroendocrinol** 1996 Jun;8(6):475–80

Local release of GABAergic inhibition in the motor cortex induces immediate-early gene expression in indirect pathway neurons of the striatum. Berretta S, et al. **J Neurosci** 1997 Jun 15;17(12):4752–63

Retinoic acid stimulates alpha-CAMKII gene expression in PC12 cells at a distinct transcription initiation site. Chen J, et al. **J Neurosci** 1996 Sep 15;16(18):5704–14

FOS expression in the brainstem and cerebellum following phencyclidine and MK801. Näkki R, et al. **J Neurosci Res** 1996 Jan 15;43(2):203–12

Dietary soybean protein increases insulin receptor gene expression in Wistar fatty rats when dietary polyunsaturated fatty acid level is low. Iritani N, et al. **J Nutr** 1997 Jun;127(6):1077–83

Effect of thyroxine on pancreatic digestive enzymes and ornithine decarboxylase gene expression in neonatal rats. Lin CH, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan; 24(1):18–24

Bacterial metabolite mediated differential human PMN gene expression. Swartwout S, et al. **J Periodontal Res** 1997 Jan; 32(1 Pt 2):196–9

Glucocorticoids regulate the expression of adenosine A1 but not A(2A) receptors in rat brain. Svenningsson P, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1094–101

Antisense oligonucleotide inhibition of hepatitis C virus gene expression in transformed hepatocytes. Hanecak R, et al. **J Virol** 1996 Aug;70(8):5203–12

The effect of ACE inhibitors on the expression of matrix genes and the role of p53 and p21 (WAF1) in experimental renal fibrosis. Morrissey JJ, et al. **Kidney Int Suppl** 1996 May;54:S83–7

Effects of ethanol on GLUT1 protein and gene expression in rat astrocytes. Singh LD, et al. **Metab Brain Dis** 1996 Dec;11(4):343–57

Requirements for interleukin-4-induced gene expression and functional characterization of Stat6. Mikita T, et al. **Mol Cell Biol** 1996 Oct;16(10):5811–20

Glucocorticoid repression of gonadotropin-releasing hormone gene expression and secretion in morphologically distinct subpopulations of GT1-7 cells. Attardi B, et al. **Mol Cell Endocrinol** 1997 Aug 8;131(2):241–55

Androgen and glucocorticoid regulation of androgen receptor cDNA expression. Burnstein KL, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):177–86

The noncalcemic vitamin D analogues EB1089 and 22-oxacalcitriol interact with the vitamin D receptor and suppress parathyroid hormone-related peptide gene expression. Falzon M. **Mol Cell Endocrinol** 1997 Mar 14; 127(1):99–108

Hepatic lipase gene expression is transiently induced by gonadotropic hormones in rat ovaries. Vieira-van Bruggen D, et al. **Mol Cell Endocrinol** 1997 Jan 3;126(1):35–40

Growth hormone increases IGF-I, collagen I and collagen III gene expression in dwarf rat skeletal muscle. Wilson VJ, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):187–97

A Y-box protein is a suppressor factor that decreases thyrotropin receptor gene expression. Ohmori M, et al. **Mol Endocrinol** 1996 Jan;10(1):76–89

DnaA protein stimulates polA gene expression in Escherichia coli. Quiñones A, et al. **Mol Microbiol** 1997 Mar; 23(6):1193–202

Effect of naltrexone on feeding, neuropeptide Y and uncoupling protein gene expression during lactation. Kotz CM, et al. **Neuroendocrinology** 1997 Apr;65(4):259–64

Gene expression of hypothalamic somatostatin and growth hormone-releasing hormone in dexamethasone-treated rats. Lam KS, et al. **Neuroendocrinology** 1997 Jul;66(1):2–8

Gene expression of the receptor for growth-hormone-releasing hormone is physiologically regulated by glucocorticoids and estrogen. Lam KS, et al. **Neuroendocrinology** 1996 Jun;63(6):475–80

Further studies on the mechanism of action of the endogenous benzodiazepine receptor ligand octadecaneuropeptide on gonadotropin-releasing hormone gene expression in the rat brain. Li S, et al. **Neuroendocrinology** 1996 Aug;64(2):79–84

A PDGF-regulated immediate early gene response initiates neuronal differentiation in ventricular zone progenitor cells. Williams BP, et al. **Neuron** 1997 Apr;18(4):553–62

Dexamethasone and stress upregulate Kv1.5 K+ channel gene expression in rat ventricular myocytes. Levitan ES, et al. **Neuropharmacology** 1996;35(7):1001–6

NGF has opposing effects on Na+ channel III and SNS gene expression in spinal sensory neurons. Black JA, et al. **Neuroreport** 1997 Jul 7;8(9-10):2331–5

Intracerebral tetracycline-dependent regulation of gene expression in grafts of neural precursors. Corti O, et al. **Neuroreport** 1996 Jul 8;7(10):1655–9

The immunosuppressant FK506 prolongs transgene expression in brain following adenovirus-mediated gene transfer. Durham HD, et al. **Neuroreport** 1997 Jul 7; 8(9-10):2111–5

Increased gene expression of beta-amyloid precursor protein and its homologues APLP1 and APLP2 in human neuroblastoma cells in response to retinoic acid. Beckman M, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):73–6

Gonadal steroid hormone regulation of proopiomelanocortin gene expression in neurons that innervate the median eminence of the rat. Cheung S, et al. **Neurosci Lett** 1997 Mar 21;224(3):181–4

Tachykinin-induced changes in beta-endorphin gene expression in the rat arcuate nucleus. Magoul R, et al. **Neurosci Lett** 1997 Feb 21;223(2):93–6

Growth factor-induced c-fos expression defines distinct subsets of midbrain dopaminergic neurons. Engele J, et al. **Neuroscience** 1996 Jul;73(2):397–406

Systemic capsaicin in the adult rat differentially affects gene expression for neuropeptides and neurotrophin receptors in primary sensory neurons. Kashiba H, et al. **Neuroscience** 1997 Jan;76(1):299–312

Delayed occurrence of enhanced striatal preprodynorphin gene expression in behaviorally sensitized rats: differential long-term effects of intermittent and chronic morphine administration. Tjon GH, et al. **Neuroscience** 1997 Jan; 76(1):167–76

RRR-alpha-tocopheryl succinate enhances TGF-beta 1, -beta 2, and -beta 3 and TGF-beta R-II expression by human MDA-MB-435 breast cancer cells. Charpentier A, et al. **Nutr Cancer** 1996;26(2):237–50

Selenite supplementation decreases expression of MAZ in HT29 human colon adenocarcinoma cells. Nelson KK, et al. **Nutr Cancer** 1996;26(1):73–81

Overexpression of vascular endothelial growth factor induces cell transformation in cooperation with fibroblast growth factor 2. Guerrin M, et al. **Oncogene** 1997 Jan 30; 14(4):463–71

Suppression of human ribosomal protein L23A expression during cell growth inhibition by interferon-beta. Jiang H, et al. **Oncogene** 1997 Jan 30;14(4):473–80

Expression of the protooncogene jun is induced in the rat pancreas by cerulein infusion. Ferrara C, et al. **Pancreas** 1997 Aug;15(2):160–7

The effect of cholecystokinin on proinsulin gene expression in isolated mouse pancreatic islets [letter] Lindskog S, et al. **Pancreas** 1996 Nov;13(4):425–6

Modulation of glucocorticoid receptor gene expression by antidepressant drugs. Barden N. **Pharmacopsychiatry** 1996 Jan;29(1):12–22

Lipophosphoglycan from Leishmania suppresses agonist-induced interleukin 1 beta gene expression in

human monocytes via a unique promoter sequence. Hatzigeorgiou DE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14708–13

Long–term effects of fatty acids on cell viability and gene expression of neonatal cardiac myocytes. Van Bilsen M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):39–45 (37 ref.)

Role of ascorbic acid in modulation of gene expression. Hitomi K, et al. **Subcell Biochem** 1996;25:41–56 (60 ref.)

Overexpression of bax sensitizes breast cancer MCF–7 cells to cisplatin and etoposide. Sakakura C, et al. **Surg Today** 1997;27(7):676–9

Valproic acid–induced changes in gene expression during neurulation in a mouse model. Wlodarczyk BC, et al. **Teratology** 1996 Dec;54(6):284–97

Endothelial cell protein S synthesis is upregulated by the complex of IL–6 and soluble IL–6 receptor. Hooper WC, et al. **Thromb Haemost** 1997 May;77(5):1014–9

Reversal of TR–T3 inhibition of the hTRH gene by excess TR ligand–binding domain: evidence for novel accessory protein. Li QL, et al. **Thyroid** 1996 Jun;6(3):233–6

In vivo hyperexpression of transforming growth factor–beta 1 in humans: stimulation by cyclosporine. Shin GT, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):284

The effect of aflatoxin B1 on the expression of early response genes and transforming growth factor–alpha in CCl4 induced rat liver injury. Hong SW, et al. **Yonsei Med J** 1997 Jun;38(3):167–77

[Effect of adrenaline on food consumption and C–fos expression in the central nervous system] Racotta IS, et al. **Gac Med Mex** 1995 Jul–Aug;131(4):409–16 (Eng. Abstr.) **(Spa)**

GENETICS

Isolation of an ischemia–induced gene and early disturbance of mitochondrial DNA expression after transient forebrain ischemia. Abe K, et al. **Adv Neurol** 1996;71:485–503

Differential expression of the monocyte chemoattractant protein–1 gene in human papillomavirus–16–infected squamous intraepithelial lesions and squamous cell carcinomas of the cervix uteri. Riethdorf L, et al. **Am J Pathol** 1996 Nov;149(5):1469–76

Patterns of gene expression along the crypt–villus axis in mouse jejunal epithelium. Cheng H, et al. **Anat Rec** 1996 Jan;244(1):78–94

Heterochromatin and gene expression in Drosophila. Weiler KS, et al. **Annu Rev Genet** 1995;29:577–605 (137 ref.)

IL–1 beta gene expression in B cells derived from the murine MRL/lpr model of lupus. Mao C, et al. **Autoimmunity** 1996; 24(2):71–9

Serial analysis of gene expression: ESTs get smaller. Adams MD. **Bioessays** 1996 Apr;18(4):261–2 (5 ref.)

Apolipoprotein J/clusterin expression defines distinct stages of blastocyst implantation in the mouse uterus. Brown TL, et al. **Biol Reprod** 1996 Oct;55(4):740–7

A unique variant of a homeobox gene related to Drosophila cut is expressed in mouse testis. Vanden Heuvel GB, et al. **Biol Reprod** 1996 Oct;55(4):731–9

Relationship between opacity of transformed E. coli colonies and over–expression of the recombinant transcript. Barik S. **Biotechniques** 1997 Jan;22(1):112–8

Rapid quantification of gene expression by competitive RT–PCR and ion–pair reversed–phase HPLC. Hayward–Lester A, et al. **Biotechniques** 1996 Feb; 20(2):250–7

Sonification as a means of enhancing the detection of gene expression levels from formalin–fixed, paraffin–embedded biopsies. Houze TA, et al. **Biotechniques** 1996 Dec; 21(6):1074–8, 1080, 1082

Discrimination of run–on transcription from constitutive genes and antisense expression vectors in the same cells. Koropatnick J, et al. **Biotechniques** 1997 Jan;22(1):64–6

Tracking and quantitation of retroviral–mediated transfer using a completely humanized, red–shifted green fluorescent protein gene. Muldoon RR, et al. **Biotechniques** 1997 Jan;22(1):162–7

Differential display assay and analysis. Shoham NG, et al. **Biotechniques** 1996 Feb;20(2):182–4

Mammalian expression vector with two multiple cloning sites for expression of two foreign genes. Tsang TC, et al. **Biotechniques** 1997 Jan;22(1):68

DNA structure, gene expression and protein synthesis. Iredale J. **Br J Hosp Med** 1996 Nov 20–Dec 10;56(10):548

Gene expression of ND4, a subunit of complex I of oxidative phosphorylation in mitochondria, is decreased in temporal cortex of brains of Alzheimer's disease patients. Fukuyama R, et al. **Brain Res** 1996 Mar 25;713(1–2):290–3

Cloning the 5' flanking region of neuron–specific Hel–N1: evidence for positive regulatory elements governing cell–specific transcription. King PH. **Brain Res** 1996 Jun 3;723(1–2):141–7

Differential and persistent expression patterns of CNS gene transfer by an adeno–associated virus (AAV) vector. McCown TJ, et al. **Brain Res** 1996 Mar 25;713(1–2):99–107

Photic regulation of c–fos gene expression in the suprachiasmatic nucleus and the circadian rhythm of photosensitivity in the mink. Boissin–Agasse L, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):21–31

Variable subcellular localization of a neuron–specific protein during NTera 2 differentiation into post–mitotic human neurons. Carlock L, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):202–12

Cloning and expression of the mouse serotonin transporter. Chang AS, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):185–92

Opioidergic and dopaminergic gene expression in the caudate–putamen and accumbens of the mutant mouse, tottering (tg/tg). De Bartolomeis A, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):321–4

Plasticity of tyrosine hydroxylase gene expression in the rat nucleus tractus solitarius after ventilatory acclimatization to hypoxia. Dumas S, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):188–94

Brain substrates activated by electroacupuncture of different frequencies (I): Comparative study on the expression of oncogene c–fos and genes coding for three opioid peptides. Guo HF, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):157–66

Transgene expression of plasmid DNAs directed by viral or neural promoters in the rat brain. Hannas–Djebbara Z, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):91–9

Enhanced gene expression for phosphatidylinositol 3–kinase in the hypoglossal motoneurons following axonal crush. Ito Y, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1–2):329–32

Localization of AT2 angiotensin II receptor gene expression in rat brain by in situ hybridization histochemistry. Jöhren O, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):192–200

Characterization of the structure and function of the gene for transcription factor BF–1, an essential regulator of forebrain development. Li H, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):96–104

The expression of MEF2 genes is implicated in CNS neuronal differentiation. Lin X, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):307–16

Sense and antisense transcripts of the developmentally regulated murine hsp70.2 gene are expressed in distinct and only partially overlapping areas in the adult brain. Murashov AK, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1–2):85–95

Rat C6 and human astrocytic tumor cells express a neuronal type of glutamate transporter. Palos TP, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):297–303

Dopamine transporter gene expression in rat mesencephalic dopaminergic neurons is increased by direct interaction with target striatal cells in vitro. Perrone–Capano C, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):160–6

Identification of preferentially expressed cochlear genes by systematic sequencing of a rat cochlea cDNA library. Soto–Prior A, et al. **Brain Res Mol Brain Res** 1997 Jul; 47(1–2):1–10

Region–specific central nervous system expression and axotomy–induced regulation in sympathetic neurons of a VIP–beta–galactosidase fusion gene in transgenic mice. Tsuruda LM, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):181–92

Characterization of brain ecto–apyrase: evidence for only one ecto–apyrase (CD39) gene. Wang TF, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):295–302

Developmental changes in expression of the ATBF1 transcription factor gene. Watanabe M, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):344–9

The effect of cycloheximide on the regulation of proenkephalin and prodynorphin gene expressions induced by kainic acid in rat hippocampus. Won JS, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):303–10

Characterization of gonadotropin–releasing hormone gene transcripts in a mouse hypothalamic neuronal GT1 cell line. Yeo TT, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):255–62

Dynamic expression suggests multiple roles of the eph family receptor brain–specific kinase (Bsk) during mouse neurogenesis. Zhang JH, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):202–14

Biolistic–mediated gene expression in guinea pigs and cattle tissue in vivo. Rech EL, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1265–7

Expression and mutational analysis of the DCC, DPC4, and MADR2/JV18–1 genes in neuroblastoma. Kong XT, et al. **Cancer Res** 1997 Sep 1;57(17):3772–8

Increased proinflammatory cytokine gene expression in the colonic mucosa of coeliac disease patients in the early period after gluten challenge. Chowers Y, et al. **Clin Exp Immunol** 1997 Jan;107(1):141–7

Evidence for a selected humoral immune response encoded by VH4 family genes in the synovial membrane of a patient with rheumatoid arthritis (RA). Voswinkel J, et al. **Clin Exp Immunol** 1996 Oct;106(1):5–12

Ca2+–dependent regulation in neuronal gene expression. Bito H, et al. **Curr Opin Neurobiol** 1997 Jun;7(3):419–29 (139 ref.)

Cloning, expression and chromosomal mapping of a novel cyclophilin–related gene (PPIL1) from human fetal brain. Ozaki K, et al. **Cytogenet Cell Genet** 1996;72(2–3):242–5

Cloning, expression, and mapping of CKAPI, which encodes a putative cytoskeleton–associated protein containing a CAP–GLY domain. Watanabe TK, et al. **Cytogenet Cell Genet** 1996;72(2–3):208–11

A molecular marker confirms that the rate of adult maturation is largely independent of the rate of pre–adult development in Drosophila melanogaster. Blake KJ, et al. **Dev Genet** 1996;18(2):125–30

Gene expression in nerve regeneration [letter] Müller HW. **Diabet Med** 1996 Jul;13(7):682

Tissue distribution and quantification of the expression of mRNAs of peroxisome proliferator–activated receptors and liver X receptor–alpha in humans: no alteration in adipose tissue of obese and NIDDM patients. Auboeuf D, et al. **Diabetes** 1997 Aug;48(8):1319–27

PPAR–gamma gene expression is elevated in skeletal muscle of obese and type II diabetic subjects. Park KS, et al. **Diabetes** 1997 Jul;46(7):1230–4

Early, but not advanced, glomerulopathy is reversed by pancreatic islet transplants in experimental diabetic rats: correlation with glomerular extracellular matrix mRNA levels. Pugliese G, et al. **Diabetes** 1997 Jul;46(7):1198–206

Pancreatic islet expression studies and polymorphic DNA markers in the genes encoding hepatocyte nuclear factor–3alpha, –3beta, –3gamma, –4gamma, and –6. Vaisse C, et al. **Diabetes** 1997 Aug;48(8):1364–7

Voluntary wheel running decreases adipose tissue mass and expression of leptin mRNA in Osborne–Mendel rats. Zachwieja JJ, et al. **Diabetes** 1997 Jul;46(7):1159–66

Disordered expression of glycolytic and gluconeogenic liver enzymes of juvenile visceral steatosis mice with systemic carnitine deficiency. Hotta K, et al. **Diabetes Res Clin Pract** 1996 May;32(3):117–23

Prediction of gene expression specificity by promoter sequence patterns. Fujibuchi W, et al. **DNA Res** 1997 Apr 28;4(2):81–90

Site–directed mutagenesis of recombinant equine chorionic gonadotropin/luteinizing hormone: differential role of oligosaccharides in luteinizing hormone– and follicle–stimulating hormone–like activities. Min KS, et al. **Endocr J** 1996 Oct;43(5):585–93

Expression of LH–alpha and –beta subunit mRNAs in the rat placenta. Shinozaki M, et al. **Endocr J** 1997 Feb; 44(1):79–87

An evolutionarily conserved region in the second intron of the human nestin gene directs gene expression to CNS progenitor cells and to early neural crest cells. Lothian C, et al. **Eur J Neurosci** 1997 Mar;9(3):452–62

Autocrine role of insulin–like growth factor II secretion by the rat choroid plexus. Nilsson C, et al. **Eur J Neurosci** 1996 Mar;8(3):629–35

Regulation of rat Schwann cell Po expression and DNA synthesis by insulin–like growth factors in vitro. Stewart HJ, et al. **Eur J Neurosci** 1996 Mar;8(3):553–64

Ciliary neurotrophic factor constitutively expressed in the nervous system of transgenic mice protects embryonic dorsal root ganglion neurons from apoptosis. Tolosano E, et al. **Eur J Neurosci** 1996 Mar;8(3):521–9

Differential expression of ubiquitous and neuronal kinesin heavy chains during differentiation of human neuroblastoma and PC12 cells. Vignali G, et al. **Eur J Neurosci** 1996 Mar;8(3):536–44

Growth factor expression by human oviduct and buffalo rat liver coculture cells. Barmat LI, et al. **Fertil Steril** 1997 Apr;67(4):775–9

The cystic fibrosis transmembrane regulator gene is expressed in the human endocervix throughout the menstrual cycle. Hayslip CC, et al. **Fertil Steril** 1997 Apr;67(4):636–40

Molecular evolution of vertebrate VIP receptors and functional characterization of a VIP receptor from goldfish Carassius auratus. Chow BK, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):176–85

Production of recombinant insulin–like growth factor–II in the development of a radioimmunoassay in rainbow trout (Oncorhynchus mykiss). Gentil V, et al. **Gen Comp Endocrinol** 1996 Nov;104(2):156–67

Evolution of insulin–like growth factor (IGF) function: production and characterization of recombinant hagfish IGF. Upton Z, et al. **Gen Comp Endocrinol** 1997 Jan; 105(1):79–90

Random and imprinted monoallelic expression. Watanabe D, et al. **Genes Cells** 1996 Sep;1(9):795–802 (78 ref.)

Variable FHIT transcripts in non–neoplastic tissues. Panagopoulos I, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):215–9

Increased concentration of some transcription factor binding sites in human retroposons of the Alu family. Kazakov VI, et al. **Genetica** 1996 Jan;97(1):15–22

Immunohistochemical evaluation of nm23–H1 gene product in transitional cell carcinoma of the bladder. Nakopoulou LL, et al. **Histopathology** 1996 May;28(5):429–35

Restriction of V beta gene usage of liver–derived lymphocytes in chronic hepatitis B and C. Pham BN, et al. **Hum Immunol** 1996 Aug;49(1):56–63

Tissue and lineage–specific variation in inactive X chromosome expression of the murine Smcx gene. Carrel L, et al. **Hum Mol Genet** 1996 Sep;5(9):1361–6

Cloning and baculovirus expression of a desiccation stress gene from the beetle, Tenebrio molitor. Graham LA, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):127–33

PCR differential display of immune gene expression in Trichoplusia ni. Kang D, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):177–84

Human CD8 alpha expression in NK cells but not cytotoxic T cells of transgenic mice. Kieffer LJ, et al. **Int Immunol** 1996 Oct;8(10):1617–26

Expression of tyrosine kinase gene in mouse thymic stromal cells. Rinke de Wit TF, et al. **Int Immunol** 1996 Nov; 8(11):1787–95

Delayed expression of the insulin–like growth factor I (IGF–I) gene in the XY sex–reversed female mouse ovary. Villalpando–Fierro I, et al. **Int J Dev Biol** 1996 Apr;

40(2):477–82
Functional analysis of the MAP2 repeat domain. Ludin B, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):91–9
Purification methods of mammalian catechol–O–methyltransferases. Tilgmann C, et al. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1–2):147–61 (110 ref.)
Transcriptional regulation of secretin gene expression. Nishitani J, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S50–55 (21 ref.)
Correlation between clonotypic T–cell receptor beta chain variable region (TCR–V beta) gene expression and aberrant T–cell antigen expression in cutaneous T–cell lymphoma. Finn DT, et al. **J Cutan Pathol** 1996 Aug;23(4):306–11
Calcium signaling in transgenic mice overexpressing cardiac Na(+)–Ca2+ exchanger. Adachi–Akahane S, et al. **J Gen Physiol** 1997 Jun;109(6):717–29
Determination of p53 mutations, EGFR overexpression, and loss of p16 expression in pediatric glioblastomas. Sure U, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):782–9
In situ hybridization analysis of Girk2 expression in the developing central nervous system in normal and weaver mice. Wei J, et al. **J Neuropathol Exp Neurol** 1997 Jul; 56(7):762–71
Expression of LIM protein genes Lmo1, Lmo2, and Lmo3 in adult mouse hippocampus and other forebrain regions: differential regulation by seizure activity. Hinks GL, et al. **J Neurosci** 1997 Jul 15;17(14):5549–59
Differential and time–dependent changes in gene expression for type II calcium/calmodulin–dependent protein kinase, 67 kDa glutamic acid decarboxylase, and glutamate receptor subunits in tetanus toxin–induced focal epilepsy. Liang F, et al. **J Neurosci** 1997 Mar 15;17(6):2168–80
rGbeta1: a psychostimulant–regulated gene essential for establishing cocaine sensitization. Wang XB, et al. **J Neurosci** 1997 Aug 1;17(15):5993–6000
In situ interleukin 5 gene expression in pediatric Crohn's disease. Hankard GF, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):568–72
Ontogeny of insulin–like growth factor–I and –II gene expression in ovine fetal heart. Cheung CY, et al. **J Soc Gynecol Investig** 1996 Nov–Dec;3(6):309–15
Expression of angiotensin II type–I receptor and phospholipase C–linked G alpha q/11 protein in the human placenta. Petit A, et al. **J Soc Gynecol Investig** 1996 Nov–Dec;3(6):316–21
Regulation of creatine kinase isoenzymes in human placenta during early, mid–, and late gestation. Thomure MF, et al. **J Soc Gynecol Investig** 1996 Nov–Dec;3(6):322–7
Variable expression of human transgenes in SHN mice. Nagasawa H, et al. **Lab Anim** 1996 Apr;30(2):127–31
Ochre suppressor transfer RNA restored dystrophin expression in mdx mice. Li K, et al. **Life Sci** 1997;61(15):PL 205–9
Human fibulin–1D: molecular cloning, expression and similarity with S1–5 protein, a new member of the fibulin gene family. Tran H, et al. **Matrix Biol** 1997 Mar; 15(7):479–93
Incretin hormone expression in the gut of diabetic mice and rats. Berghöfer P, et al. **Metabolism** 1997 Mar;46(3):261–7
Authentic display of a cholera toxin epitope by chimeric type 1 fimbriae: effects of insert position and host background. Stentebjerg–Olesen B, et al. **Microbiology** 1997 Jun;143 (Pt 6):2027–38
Replication, expression and segregation of plasmid–borne DNA in genetically transformed malaria parasites. van Dijk MR, et al. **Mol Biochem Parasitol** 1997 Jun;86(2):155–62
Expression patterns of two murine homologs of Drosophila single–minded suggest possible roles in embryonic patterning and in the pathogenesis of Down syndrome [published erratum appears in Mol Cell Neurosci 1996 Jun;7(6):519] Fan CM, et al. **Mol Cell Neurosci** 1996 Jan; 7(1):1–16
Suckling–induced changes in neuropeptide Y and proopiomelanocortin gene expression in the arcuate nucleus of the rat: evaluation of a putative intervention of prolactin. Pape JR, et al. **Neuroendocrinology** 1996 Jun;63(6):540–9
The molecular biology of preprotachykinin–A gene expression. Fiskerstrand C, et al. **Neuropeptides** 1996 Dec; 30(6):602–10 (59 ref.)
Regional and cellular presenilin 2 (STM2) gene expression in the human brain. Boissière F, et al. **Neuroreport** 1996 Aug 12;7(12):2021–5
Injury induces presenilin–1 gene expression in mouse brain. Cribbs DH, et al. **Neuroreport** 1996 Jul 29;7(11):1773–6
Altered gene expression in brain ischemia. Koistinaho J, et al. **Neuroreport** 1997 Jan 20;8(2):i–viii (152 ref.)
IL–1 beta, IL–1 receptor type I and iNOS gene expression in rat brain vasculature and perivascular areas. Wong ML, et al. **Neuroreport** 1996 Nov 4;7(15–17):2445–8
A novel gene selectively expressed in the cerebellum. Bulleit RF, et al. **Neurosci Lett** 1996 May 10;209(2):93–6
C–Fos proteins are not involved in the activation of preproenkephalin gene expression in rat brain by peripheral electric stimulation (electroacupuncture). Guo HF, et al. **Neurosci Lett** 1996 Apr 5;207(3):163–6
Murine steroid sulfatase gene expression in the brain during postnatal development and adulthood. Mortaud S, et al. **Neurosci Lett** 1996 Sep 13;215(3):145–8
Modified N–methyl–D–aspartate receptor subunit expression emerges in reeler Purkinje cells after accomplishment of the adult wild–type expression. Watanabe M, et al. **Neurosci Res** 1996 Dec;26(4):335–43
Analysis of germline and expressed T cell receptor variable region genes in Crohn's disease. Thurley C, et al. **Pathol Res Pract** 1996 Oct;192(10):1022–30
Ependymomas in children express the multidrug resistance gene: immunohistochemical and molecular biologic study. Chou PM, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug; 16(4):551–61
Absence of correlation between reg and insulin gene expression in pancreas during fetal development. Moriscot C, et al. **Pediatr Res** 1996 Feb;39(2):349–53
Differential VIP and VIP1 receptor gene expression in rat thymocyte subsets. Delgado M, et al. **Peptides** 1996; 17(5):803–7
ANP gene expression in rat hearts during hypoxia. Pfeifer M, et al. **Pflugers Arch** 1997 May;434(1):63–9
The Drosophila genes timeless and period collaborate to promote cycles of gene expression composing a circadian pacemaker. Young MW. **Prog Brain Res** 1996;111:29–39 (51 ref.)
Differentiation between proteolytic activation and autocatalytic conversion of human prothrombin. Activation of recombinant human prothrombin and recombinant D419N–prothrombin by snake venoms from Echis carinatus and Oxyuranus scutellatus. Fischer BE, et al. **Protein Eng** 1996 Oct;9(10):921–6
Characterization of a ricin fusion toxin targeted to the interleukin–2 receptor. Frankel AE, et al. **Protein Eng** 1996 Oct;9(10):913–9
Immediate–early baculovirus vectors for foreign gene expression in transformed or infected insect cells. Jarvis DL, et al. **Protein Expr Purif** 1996 Sep;8(2):191–203
The broad spectrum of cytokine gene expression by myoid cells from the human marrow microenvironment. Sensebe L, et al. **Stem Cells** 1997;15(2):133–43
POU–domain gene expression during spermatogenesis. Zini A, et al. **World J Urol** 1996;14(5):274–7 (20 ref.)

IMMUNOLOGY

Intrathyroidal cytokine gene expression in Hashimoto's thyroiditis. Ajjan RA, et al. **Clin Exp Immunol** 1996 Sep; 105(3):523–8
Evidence for a selected humoral immune response encoded by VH4 family genes in the synovial membrane of a patient with rheumatoid arthritis (RA). Voswinkel J, et al. **Clin Exp Immunol** 1996 Oct;106(1):5–12
Analysis of HLA class Ib gene expression in male gametogenic cells. Fiszer D, et al. **Eur J Immunol** 1997 Jul;27(7):1691–5
Molecular cloning and chromosomal mapping of a novel human gene, ChemR1, expressed in T lymphocytes and polymorphonuclear cells and encoding a putative chemokine receptor. Samson M, et al. **Eur J Immunol** 1996 Dec;26(12):3021–8
Humoral response after administration of E1–deleted adenoviruses: immune privilege of the subretinal space. Bennett J, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1763–9
Class I mhc genes of cichlid fishes: identification, expression, and polymorphism. Sato A, et al. **Immunogenetics** 1997; 46(1):63–72
T–cell receptor V beta gene segment expression in diisocyanate–induced occupational asthma. Bernstein JA, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):245–50
Interleukin–1 receptor antagonist: characterisation of its gene expression in rabbit tissues and large–scale expression in eucaryotic cells using a baculovirus expression system. Apostolopoulos J, et al. **J Immunol Methods** 1996 Nov 29; 199(1):27–35
Primate DRB6 gene expression and evolution: a study in Macaca mulatta and Cercopithecus aethiops. Paz–Artal E, et al. **Tissue Antigens** 1996 Mar;47(3):222–7

PHYSIOLOGY

Na, K–ATPase isoform gene expression in normal and hypertrophied dog heart. Zahler R, et al. **Basic Res Cardiol** 1996 May–Jun;91(3):256–66
Light–induced phase shifts of circadian activity rhythms and immediate early gene expression in the suprachiasmatic nucleus are attenuated in old C3H/HeN mice. Benloucif S, et al. **Brain Res** 1997 Jan 30;747(1):34–42
Analysis of gene expression during experimental uveitis in the rabbit. Rocha G, et al. **Can J Ophthalmol** 1996 Aug; 31(5):228–33
Re–evaluation of the SA gene in spontaneously hypertensive and Wistar–Kyoto rats. Ishinaga Y, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):18–22
Altered gene expression of natriuretic peptide receptor subtypes in the kidney of stroke–prone spontaneously hypertensive rats. Goto M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S177–9
Gene expression of prostacyclin receptor in the hypertrophied heart of spontaneously hypertensive rats. Nakagawa O, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S270–2
Endothelin–1 gene expression and vascular hypertrophy in DOCA–salt hypertension compared to spontaneously hypertensive rats. Schiffrin EL, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S188–90
Expression of basic fibroblast growth factor mRNA in developing choroidal neovascularization. Ogata N, et al. **Curr Eye Res** 1996 Oct;15(10):1008–18
E2A gene products are not required for insulin gene expression. Itkin–Ansari P, et al. **Endocrinology** 1996 Aug; 137(8):3540–3
Functional expression of recombinant GABAA receptor channels in L929 fibroblasts. Macdonald RL, et al. **Epilepsy Res Suppl** 1996;12:177–85
Genomic structure, sequence, and physiological expression of mKv 1.5, a mouse potassium channel gene. Street VA, et al. **Epilepsy Res Suppl** 1996;12:165–75
Phenylketonuria genotypes correlated to metabolic phenotype groups in Norway. Eiken HG, et al. **Eur J Pediatr** 1996 Jul;155(7):554–60
In vivo cytokine and receptor gene expression during the rat hair growth cycle. Analysis by semi–quantitative RT–PCR. Little JC, et al. **Exp Dermatol** 1996 Aug; 5(4):202–12
Leishmania major: promastigotes induce expression of a subset of chemokine genes in murine macrophages. Racoosin EL, et al. **Exp Parasitol** 1997 Mar;85(3):283–95
The impact of physiological stimuli on the expression of corticotropin–releasing hormone (CRH) and other neuropeptide genes. Watts AG. **Front Neuroendocrinol** 1996 Jul;17(3):281–326 (198 ref.)
The role of gonadal hormones in gene expression of calbindin (Mr 28,000) in the laying hen. Bar A, et al. **Gen Comp Endocrinol** 1996 Jul;103(1):115–22
Characterization of two new preproGnRH mRNAs in the tree shrew: first direct evidence for mesencephalic GnRH gene expression in a placental mammal. Kasten TL, et al. **Gen Comp Endocrinol** 1996 Oct;104(1):7–19
Preliminary evidence suggesting variations of GtH 1 and GtH2 mRNA levels at different stages of gonadal development in rainbow trout, Oncorhynchus mykiss. Weil C, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):327–33
Induction of astroglial gene expression by experimental seizures in the rat: spatio–temporal patterns of the early stages. Belluardo N, et al. **Glia** 1996 Feb;16(2):174–86
Histones: genetic diversity and tissue–specific gene expression. Doenecke D, et al. **Histochem Cell Biol** 1997 Jan;107(1):1–10 (141 ref.)
Postnatal maturation of the Kallikrein–kinin system in the rat kidney: from enzyme activity to receptor gene expression. Bascands JL, et al. **J Am Soc Nephrol** 1996 Jan;7(1):81–9
Ulcerative colitis with overexpression of p53 preceding overt histological abnormalities of the epithelium. Matsuda K, et al. **J Gastroenterol** 1996 Dec;31(6):860–7
Use of tetracycline–controlled gene expression systems to study mammalian cell cycle. Freundlieb S, et al. **Methods Enzymol** 1997;283:159–73
Physiologically induced Fos expression in the hypothalamo–hypophyseal system of Xenopus laevis. Ubink R, et al. **Neuroendocrinology** 1997 Jun;65(6):413–22
Expression of the neurofibromatosis 1 (NF1) gene during growth arrest. Norton KK, et al. **Neuroreport** 1996 Jan 31;7(2):601–4
Temporal and spatial dissociation of expression patterns between Zif268 and c–Fos in rat inferior olive during vestibular compensation. Sato T, et al. **Neuroreport** 1997 May 27;8(8):1891–5
The relative importance of premortem acidosis and postmortem interval for human brain gene expression studies: selective mRNA vulnerability and comparison with their encoded proteins. Harrison PJ, et al. **Neurosci Lett** 1995 Nov 24;200(3):151–4
Fos expression in serotonergic midbrain neurons projecting to the paraventricular nucleus of hypothalamus after noxious stimulation of the stomach: a triple labeling study in the rat. Dong YX, et al. **Neurosci Res** 1997 Feb; 27(2):155–60
Quantitative analysis of mu and delta opioid receptor gene expression in rat brain and peripheral ganglia using competitive polymerase chain reaction. Búzás B, et al. **Neuroscience** 1997 Jan;76(2):479–89
Analysis of neurotrophin–3 expression using the lacZ reporter gene suggests its local mode of neurotrophic activity. Tojo H, et al. **Neuroscience** 1996 Mar;71(1):221–30
RT–PCR analysis of shaker, shab, shaw, and shal gene expression in single neurons and glial cells. Baro DJ, et al. **Receptors Channels** 1996;4(3):149–59

RADIATION EFFECTS

Molecular aspects of UVB–induced immunosuppression. Garssen J, et al. **Arch Toxicol Suppl** 1997;19:97–109 (60 ref.)
Overxpression of Bcl–2 inhibits UVA–mediated immediate apoptosiinrat 6 fibroblasts: evidence for the involvement of Bcl–2 as an antioxidant. Pourzand C, et al. **Cancer Res** 1997 Apr 15;57(8):1405–11
Rodent cell transformation and immediate early gene expression following 60–Hz magnetic field exposure. Balcer–Kubiczek EK, et al. **Environ Health Perspect** 1996 Nov;104(11):1188–98
Prolonged c–jun expression in irradiated ataxia telangiectasia fibroblasts. Hallahan DE, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1;36(2):355–60
Potential molecular targets for manipulating the radiation response. Maity A, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):639–53 (180 ref.)
Analysis of UVB–modulated gene expression in human keratinocytes by mRNA differential display polymerase chain reaction. Abts HF, et al. **Photochem Photobiol** 1997

Sep;66(3):363–7
Enhanced expression of the Kin17 protein immediately after low doses of ionizing radiation. Biard DS, et al. **Radiat Res** 1997 Apr;147(4):442–50
Transient increase in glycolytic metabolism in cultured tumor cells immediately after exposure to ionizing radiation: from gene expression to deoxyglucose uptake. Fujibayashi Y, et al. **Radiat Res** 1997 Jun;147(6):729–34
Growth–state–dependent radiation–induced expression of the proto–oncogene c–fos in NIH 3T3 cells. Herskind C, et al. **Radiat Res** 1996 Mar;145(3):299–303

GENE EXPRESSION REGULATION

see related
CELL DIFFERENTIATION
CHROMOSOMAL PROTEINS, NON–HISTONE
TRANS–ACTIVATORS
TRANSCRIPTION FACTORS

Regulation of protamine gene expression in an in vitro homologous system. Jankowski JM, et al. **Acta Biochim Pol** 1996;43(2):369–77
Regulation of collagen expression by interleukin–1 beta is dependent on donor age. Jarisch A, et al. **Acta Derm Venereol** 1996 Jul;76(4):287–90
Relative levels of alpha–, beta–, and gamma–mRNA from patients with severe and intermediate beta–thalassemia major. Smetanina NS, et al. **Acta Haematol** 1997; 97(4):205–10
Evaluation of gene expression in the rat carotid body using the differential display technique. Chen J, et al. **Adv Exp Med Biol** 1996;410:119–25
Induction of immediate early response genes by hypoxia. Possible molecular bases for systems adaptation to low pO2. Cherniack NS, et al. **Adv Exp Med Biol** 1996;410:127–34
Regulation of expression of taurine transport in two continuous renal epithelial cell lines and inhibition of taurine transporter by a site–directed antibody. Han X, et al. **Adv Exp Med Biol** 1996;403:173–91
Expression of the RT6 mono(ADP–ribosyl)transferases is regulated by two promoter regions. Kuhlenbäumer G, et al. **Adv Exp Med Biol** 1997;419:265–70
Regulation of gene transcription of angiotensin II receptor subtypes in the heart. Matsubara H, et al. **Adv Exp Med Biol** 1996;396:23–32
Human AT1 receptor gene regulation. Su B, et al. **Adv Exp Med Biol** 1996;396:11–21 (43 ref.)
Expression of the ectoenzyme RT6 is not restricted to resting peripheral T cells and is differently regulated in normal peripheral T cells, intestinal IEL, and NK cells. Wonigeit K, et al. **Adv Exp Med Biol** 1997;419:229–40
NF–IL6 and NF–kappa B in cytokine gene regulation. Akira S, et al. **Adv Immunol** 1997;65:1–46 (215 ref.)
Donor–specific bone marrow cells suppress lymphocyte reactivity to donor antigens and differentially modulate TH1 and TH2 cytokine gene expression in the responder cell population. Lagoo–Deenadayalan S, et al. **Adv Nephrol Necker Hosp** 1996;25:107–27
Regulation of somatostatin gene transcription by cAMP. Montminy M, et al. **Adv Pharmacol** 1996;36:1–13 (20 ref.)
Alteration of CD44 expression in HIV type 1–infected T cell lines. Giordanengo V, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20;12(17):1615–22
Collagen subtypes III and IV expression in human vein graft atherosclerosis. Denning SM, et al. **Am J Cardiol** 1996 Sep 15;78(6):691–4
Absence of CD69 expression on peripheral eosinophils in episodic angioedema and eosinophilia. Kawano M, et al. **Am J Hematol** 1996 Sep;53(1):43–5
Gene regulation by mRNA editing [editorial; comment] Ashkenas J. **Am J Hum Genet** 1997 Feb;60(2):278–83 (43 ref.). Comment on: Am J Hum Genet 1997 Feb;60(2):305–12.
Up–regulation of the brain and Purkinje–cell forms of dystrophin transcripts, in Becker muscular dystrophy [letter] Nakamura A, et al. **Am J Hum Genet** 1997 Jun; 60(6):1555–8
Modulation of leukemia inhibitory factor gene expression and protein biosynthesis in the human fallopian tube. Keltz MD, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1611–9
Hexokinase II activity and messenger ribonucleic acid abundance in adipose tissue and skeletal muscle during pregnancy and lactation in rats. Yanase S, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):651–5
Transforming growth factors–beta 1, –beta 2, and –beta 3 stimulate fibroblast procollagen production in vitro but are differentially expressed during bleomycin–induced lung fibrosis. Coker RK, et al. **Am J Pathol** 1997 Mar; 150(3):981–91
High glucose concentration induces the overexpression of transforming growth factor–beta through the activation of a platelet–derived growth factor loop in human mesangial cells. Di Paolo S, et al. **Am J Pathol** 1996 Dec; 149(6):2095–106
Induction of plasminogen activator inhibitor 1 gene expression in murine liver by lipopolysaccharide. Cellular localization and role of endogenous tumor necrosis factor–alpha. Fearns C, et al. **Am J Pathol** 1997 Feb; 150(2):579–90
Apoptosis in rheumatoid arthritis: p53 overexpression in rheumatoid arthritis synovium. Firestein GS, et al. **Am J Pathol** 1996 Dec;149(6):2143–51
Expression of Bcl–2 family during liver regeneration and identification of Bcl–x as a delayed early response gene. Tzung SP, et al. **Am J Pathol** 1997 Jun;150(6):1985–95
Steroid hormone induction and expression patterns of L–plastin in normal and carcinomatous prostate tissues. Zheng J, et al. **Am J Pathol** 1997 Jun;150(6):2009–18
Preservation of intestinal gene expression during hibernation. Carey HV, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G804–13
Mechanism of RSV–induced IL–8 gene expression in A549 cells before viral replication. Fiedler MA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L963–71
Acute metabolic acidosis inhibits the induction of osteoblastic egr–1 and type 1 collagen. Frick KK, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1450–6
Regulation of HSP70 by PTH: a model of gene regulation not mediated by changes in cAMP levels. Fukayama S, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C121–9
Repressive regulation of the aquaporin–2 gene. Furuno M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F854–60
Glucose regulation of islet amyloid polypeptide gene expression in rat pancreatic islets. Gasa R, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E543–9
Cloning and induction by low NaCl intake of avian intestine Na+ channel subunits. Goldstein O, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C270–7
Growth hormone upregulates gastrin and peptide YY gene expression. Gomez G, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E582–6
Regulation of obese gene expression in KK mice and congenic lethal yellow obese KKAy mice. Hayase M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E333–9
Telokin expression in A10 smooth muscle cells requires serum response factor. Herring BP, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 1):C1394–404
Isolation, mapping, and regulated expression of the gene encoding mouse C–type natriuretic peptide. Huang H, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1565–75
Induction of FGF–7 after kidney damage: a possible paracrine mechanism for tubule repair. Ichimura T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F967–76
Angiotensinogen gene expression in adipose tissue: analysis of obese models and hormonal and nutritional control. Jones BH, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R236–42
Regulation of ATP synthase subunit e gene expression by hypoxia: cell differentiation stage–specific control. Levy FH, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C457–65
Regulation of rat Na+/Pi cotransporter–1 gene expression: the roles of glucose and insulin. Li H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1021–8
Inducible expression of bcl–2 by the lac operator/repressor system in MDCK cells. Lin HH, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F300–6
Continuous contractile activity induces fiber type specific expression of HSP70 in skeletal muscle. Neufer PD, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1828–37
Involvement of transcription factor C/EBP–beta in stimulation of PEPCK gene expression during exercise. Nizielski SE, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1005–12
Hyperosmolality stimulates Na–K–ATPase gene expression in inner medullary collecting duct cells. Ohtaka A, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F728–38
Angiotensin II type 1 receptor–mediated activation of Ras in cultured rat vascular smooth muscle cells. Okuda M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H595–601
Myosin heavy chain gene expression in neonatal rat heart cells: effects of [Ca2+]i and contractile activity. Qi M, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C394–403
Induction of human skeletal muscle lipoprotein lipase gene expression by short–term exercise is transient. Seip RL, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E255–61
Induction of beta–MHC transgene in overloaded skeletal muscle is not eliminated by mutation of conserved elements. Tsika GL, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C690–9
Aldosterone induction and epithelial distribution of CHIF. Wald H, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F322–9
Beta–MHC and SMLC1 transgene induction in overloaded skeletal muscle of transgenic mice. Wiedenman JL, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1111–21
Muscle–specific and inducible expression of 293–base pair beta–myosin heavy chain promoter in transgenic mice. Wiedenman JL, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R688–95
Regulation of transferrin gene expression during lung development and injury. Yang F, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L417–26
CRE–like response element regulates expression of rat alpha 2D–adrenergic receptor gene in vascular smooth muscle. Yang N, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H85–95
A CRE–like element plays an essential role in cAMP regulation of human SP–A2 gene in alveolar type II cells. Young PP, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L287–99
The role of nuclear factor–kappa B in cytokine gene regulation. Blackwell TS, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):3–9 (44 ref.)
Posttranscriptional regulation of lung elastin production [comment] Parks WC. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):1–2 (13 ref.). Comment on: Am J Respir Cell Mol Biol 1997 Jul;17(1):10–6.
The use of the reverse transcription–competitive polymerase chain reaction to investigate the in vivo regulation of gene expression in small tissue samples. Auboeuf D, et al. **Anal Biochem** 1997 Feb 15;245(2):141–8
Regulation of chemokine gene expression in human endothelial cells by proinflammatory cytokines and Borrelia burgdorferi. Ebnet K, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:107–17
Hemodynamics, endothelial gene expression, and atherogenesis. Gimbrone MA Jr, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:1–10; discussion 10–1 (60 ref.)
Gene expression in rodent model of environmental lung disease. Hoyle GW, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:162–72 (39 ref.)
Hunting for differentially expressed mRNA species in preconditioned myocardium. Maulik N, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:240–58
Differential signaling and immediate–early gene activation by four splice variants of the human pituitary adenylate cyclase–activating polypeptide receptor (hPACAP–R). Pisegna JR, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:54–64; discussion 64–6
Immunoglobulin variable region (IgV) gene expression in rheumatoid factors from monozygotic twins with rheumatoid arthritis. Vencovský J, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:324–6
Expression of the copper–zinc superoxide dismutase gene in amyotrophic lateral sclerosis. Nishiyama K, et al. **Ann Neurol** 1997 Apr;41(4):551–6
Pancreatic reg gene expression is inhibited during cellular differentiation. Zenilman ME, et al. **Ann Surg** 1997 Mar; 225(3):327–32
Expression of immediate early genes after cardioplegic arrest and reperfusion. Aebert H, et al. **Ann Thorac Surg** 1997 Jun;63(6):1669–75
Transcriptional regulation by cyclic AMP. Montminy M. **Annu Rev Biochem** 1997;66:807–22 (79 ref.)
Regulation of gene expression by hypertonicity. Burg MB, et al. **Annu Rev Physiol** 1997;59:437–55 (70 ref.)
Control of gene expression during lymphoid development: targeted gene disruption provides new clues. Dooijes D, et al. **APMIS** 1997 May;105(5):337–44 (43 ref.)
Differential regulation of mouse Ah receptor gene expression in cell lines of different tissue origins. FitzGerald CT, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):170–8
Inhibitors of serine/threonine–specific protein phosphatases stimulate transcription by the Ah receptor/Arnt dimer by affecting a step subsequent to XRE binding. Li SY, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):73–82
Sex–specific and hormone–controlled expression of a vitellogenin–encoding gene in the gypsy moth. Adamczyk JJ Jr, et al. **Arch Insect Biochem Physiol** 1996;31(3):237–56
Immediate early–gene induction in rat osteoblastic cells after mechanical deformation. Dolce C, et al. **Arch Oral Biol** 1996 Dec;41(12):1101–8
Epidermal growth factor and epidermal growth factor–receptor expression in the mouse dental follicle during tooth eruption. Shroff B, et al. **Arch Oral Biol** 1996 Jun;41(6):613–7
An immunohistochemical and in situ hybridization study of the expression of tenascin in synovial membranes from human temporomandibular joints with internal derangement. Yoshida H, et al. **Arch Oral Biol** 1996 Nov; 41(11):1081–5
Increased intraluminal pressure induces DNA synthesis and c–fos expression in perfused rat aorta. Mangiarua EI, et al. **Arch Physiol Biochem** 1996 Dec;104(7):838–44
Apoptosis is inhibited early in the dysplasia–carcinoma sequence of Barrett esophagus. Katada N, et al. **Arch Surg** 1997 Jul;132(7):728–33
Recombinant expression and catalytic analysis of rapid and slow acetylator Syrian hamster chimeric NAT2 alleles. Hein DW, et al. **Arch Toxicol** 1997;71(5):306–13
Distal apolipoprotein C–III regulatory elements F to J act as a general modular enhancer for proximal promoters that contain hormone response elements. Synergism between hepatic nuclear factor–4 molecules bound to the proximal promoter and distal enhancer sites. Kardassis D, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):222–32
Regulation of scavenger receptor expression in smooth muscle cells by protein kinase C: a role for oxidative stress. Mietus–Snyder M, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):969–78
Regulation of the tissue factor gene in human monocytic cells. Role of AP–1, NF–kappa B/Rel, and Sp1 proteins in uninduced and lipopolysaccharide–induced expression. Oeth P, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):365–74
Estrogen inhibits endothelin–1 production and c–fos gene expression in rat aorta. Akishita M, et al. **Atherosclerosis** 1996 Aug 23;125(1):27–38
Activation of a cryptic splice–site in intron 24 leads to the formation of apolipoprotein B–27.6. Nemeth–Slany A, et al. **Atherosclerosis** 1997 Sep;133(2):163–70
Expression of platelet–derived growth factor B–chain in neointimal smooth muscle cells of balloon injured rabbit femoral arteries. Uchida K, et al. **Atherosclerosis** 1996 Jul; 124(1):9–23
Abnormal regulation of the LDL–R and HMG CoA reductase genes in subjects with familial hypercholesterolemia with the "French Canadian mutation". Yu L, et al. **Atherosclerosis** 1996 Jul;

124(1):103–17
Cyclins and autoimmunity: cyclin B1 gene expression and restriction fragment length polymorphism in lupus-prone mice. Hsu HC, et al. **Autoimmunity** 1995;22(1):17–26
Regulation of CD95 ligand expression: a key element in immune regulation? Brunner T, et al. **Behring Inst Mitt** 1996 Oct;(97):161–74 (81 ref.)
Rat TAFII31 gene is induced upon programmed cell death in differentiated PC12 cells deprived of NGF. Aoki T, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):230–4
Gene regulation by nuclear and cytoplasmic calcium signals. Bading H, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):541–3 (34 ref.)
Loss of calcyphosine gene expression in mouse and other rodents. Clément S, et al.
Biochem Biophys Res Commun 1997 Mar 17;232(2):407–13
Cyclic AMP-stimulated accumulation of the cAMP response element binding protein can occur without changes in gene expression. Crosson SM, et al.
Biochem Biophys Res Commun 1996 Oct 23;227(3):915–20
Deregulated expression and function of CFTR and Cl- secretion after activation of the Ras and Src/PyMT pathways in Caco-2 cells. Davenport SE, et al.
Biochem Biophys Res Commun 1996 Dec 13;229(2):663–72
Expression of G1-phase cell cycle genes during hematopoietic lineage. Della Ragione F, et al.
Biochem Biophys Res Commun 1997 Feb 3;231(1):73–6
Molecular cloning of a bovine renal G-protein coupled receptor gene (bRGR): regulation of bRGR mRNA levels by amino acid availability. Ferrer-Martínez A, et al.
Biochem Biophys Res Commun 1997 Sep 8;238(1):107–12
NACP, a synaptic protein involved in Alzheimer's disease, is differentially regulated during megakaryocyte differentiation. Hashimoto M, et al.
Biochem Biophys Res Commun 1997 Aug 28;237(3):611–6
Genomic organization, sequence, and transcriptional regulation of the human eotaxin gene. Hein H, et al.
Biochem Biophys Res Commun 1997 Aug 28;237(3):537–42
Identification of glucose-regulated genes in human mesangial cells by mRNA differential display. Holmes DI, et al.
Biochem Biophys Res Commun 1997 Sep 8;238(1):179–84
Calcium-dependent c-myc proto-oncogene expression and proliferation of Caco-2 cells: a role for a luminal extracellular calcium-sensing receptor. Kállay E, et al.
Biochem Biophys Res Commun 1997 Mar 6;232(1):80–3
Protein kinase C and c-myc gene activation pathways in thrombopoietin signal transduction. Kunitama M, et al.
Biochem Biophys Res Commun 1997 Feb 13;231(2):290–4
Overexpression of cyclin E and cyclin-dependent kinase inhibitor (p27Kip1): effect on cell cycle regulation in HeLa cells. Kwon TK, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):534–8
Effect of enteral versus parenteral nutrition on leptin gene expression and release into the circulation. Levy JR, et al. **Biochem Biophys Res Commun** 1997 Aug 8; 237(1):98–102
Identification of human semaphorin E gene expression in rheumatoid synovial cells by mRNA differential display. Mangasser-Stephan K, et al.
Biochem Biophys Res Commun 1997 May 8;234(1):153–6
Multiple cadherins are expressed in human fibroblasts. Matsuyoshi N, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):355–8
Regulation of midkine messenger ribonucleic acid levels in cultured rat granulosa cells. Minegishi T, et al.
Biochem Biophys Res Commun 1996 Dec 24;229(3):799–805
PPAR alpha mediates peroxisome proliferator-induced transcriptional repression of nonperoxisomal gene expression in mouse. Motojima K, et al.
Biochem Biophys Res Commun 1997 Jan 3;230(1):155–8
A short form of leptin receptor performs signal transduction. Murakami T, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):26–9
Up-regulation of rho A and rho-kinase mRNAs in the rat myometrium during pregnancy. Niiro N, et al.
Biochem Biophys Res Commun 1997 Jan 13;230(2):356–9
Subcellular localization and protein interaction of the human LIMK2 gene expressing alternative transcripts with tissue-specific regulation. Osada H, et al.
Biochem Biophys Res Commun 1996 Dec 13;229(2):582–9
Negative regulation of bovine growth hormone gene by YY1 binding to NRE's. Park KY, et al.
Biochem Biophys Res Commun 1996 Nov 21;228(3):745–51
Chronic stimulation differentially modulates expression of mRNA for dihydropyridine receptor isoforms in rat fast twitch skeletal muscle. Péréon Y, et al.
Biochem Biophys Res Commun 1997 Jun 9;235(1):217–22
Selective expression of HSP70-1 gene in the adrenal cortex but not in the medulla of thermally stressed rats. Shimizu K, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):550–4
The mitochondrion as a primary site of action of glucocorticoids: mitochondrial nucleotide sequences, showing similarity to hormone response elements, confer dexamethasone inducibility to chimaeric genes transfected in LATK- cells. Tsiriyotis C, et al.
Biochem Biophys Res Commun 1997 Jun 18;235(2):349–54
Enhancement of gene expression by transcription factor AP-1 is dependent on orientation of AP-1 element. Tu Z, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):285–8
Involvement of the homeodomain-containing transcription factor PDX-1 in islet amyloid polypeptide gene transcription. Watada H, et al.
Biochem Biophys Res Commun 1996 Dec 24;229(3):746–51
Expression of transcription factors in keratoconus, a cornea-thinning disease. Whitelock RB, et al.
Biochem Biophys Res Commun 1997 Jun 9;235(1):253–8
Helicobacter pylori induces gene expression in human gastric cells identified by mRNA differential display. Wong L, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):484–8
The BCL6 gene is predominantly expressed in keratinocytes at their terminal differentiation stage. Yoshida T, et al.
Biochem Biophys Res Commun 1996 Nov 1;228(1):216–20
Expression of Oct-4 during differentiation of murine F9 cells. Wang L, et al. **Biochem Cell Biol** 1996;74(4):579–84
Regulation of transcription factor activity during cellular aging. Wheaton K, et al. **Biochem Cell Biol** 1996; 74(4):523–34 (110 ref.)
Molecular cloning of up-regulated cytoskeletal genes from regenerating skeletal muscle: potential role of myocyte enhancer factor 2 proteins in the activation of muscle-regeneration-associated genes. Akkila WM, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):87–93
Structural and functional analysis of a promoter of the human granulin/epithelin gene. Bhandari V, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):441–7
Oct-1 interacts with conserved motifs in the human thyroid transcription factor 1 gene minimal promoter. Bingle CD, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):669–74
Existence of two translation initiation sites leading to the expression of two proteins from the rat high-affinity neurotensin-receptor cDNA: possible regulation by the 5' end non-coding region. Botto JM, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):389–93
Transcriptional activity of the human tissue inhibitor of metalloproteinases 1 (TIMP-1) gene in fibroblasts involves elements in the promoter, exon 1 and intron 1. Clark IM, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):611–7
Identification of ErbB3-stimulated genes using modified representational difference analysis. Edman CF, et al.
Biochem J 1997 Apr 1;323 (Pt 1):113–8
Mitogen-activated protein kinase phosphatase 1 inhibits the stimulation of gene expression by hypertrophic agonists in cardiac myocytes. Fuller SJ, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):313–9
Cloning of the monocarboxylate transporter isoform MCT2 from rat testis provides evidence that expression in tissues is species-specific and may involve post-transcriptional regulation. Jackson VN, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):447–53
Insulin regulation of mitogen-activated protein kinase kinase (MEK), mitogen-activated protein kinase and casein kinase in the cell nucleus: a possible role in the regulation of gene expression. Kim SJ, et al. **Biochem J** 1997 May 1;323 (Pt 3):621–7
Transcriptional activation of human 12-lipoxygenase gene promoter is mediated through Sp1 consensus sites in A431 cells. Liu YW, et al. **Biochem J** 1997 May 15;324 (Pt 1):133–40
Lipid mediators of insulin resistance: ceramide signalling down-regulates GLUT4 gene transcription in 3T3-L1 adipocytes. Long SD, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):179–84
A specific distal promoter controls gamma-glutamyl transpeptidase gene expression in undifferentiated rat transformed liver cells. Nomura S, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):311–20
Post-transcriptional regulation of H-ferritin gene expression in human monocytic THP-1 cells by protein kinase C. Pang JH, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):185–9
Cell cycle and post-transcriptional regulation of annexin expression in IMR-90 human fibroblasts. Raynal P, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):365–71
Structure of active chromatin: covalent modifications of histones in active and inactive genes of control and hypothyroid rat liver. Tikoo K, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):281–7
Molecular cloning of a novel mRNA (harderin) specifically and highly expressed in the Harderian gland of the frog, Rana esculenta. Aniello F, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):401–8
Uncoordinated regulation of histone H1(0)synthesis and H1(0) mRNA level. Rousseau D. **Biochem Mol Biol Int** 1996 Apr;38(5):1023–32
Activation of rat thymocytes selectively upregulates the expression of somatostatin receptor subtype-1. Sedqi M, et al. **Biochem Mol Biol Int** 1996 Feb;38(1):103–12
Regulation of selenoprotein gene expression and thyroid hormone metabolism. Arthur JR, et al.
Biochem Soc Trans 1996 May;24(2):384–8 (50 ref.)
Regulation of insulin gene transcription by nutrients. Docherty K, et al. **Biochem Soc Trans** 1996 May; 24(2):368–72 (35 ref.)
Regulation of transcription factor function by proteolysis. Goodbourn S, et al. **Biochem Soc Trans** 1997 May; 25(2):498–502 (49 ref.)
Genetic regulation of interferon-gamma production. Pravica VP, et al. **Biochem Soc Trans** 1997 May;25(2):176S
Regulation of the expression of distinct human secreted IgE proteins produced by alternative RNA splicing. Saxon A, et al. **Biochem Soc Trans** 1997 May;25(2):383–7 (14 ref.)
Nutrient regulation of intestinal sugar-transporter expression. Shirazi-Beechey SP, et al. **Biochem Soc Trans** 1996 May; 24(2):389–92 (18 ref.)
Regulation of gene expression by insulin: analysis in single living cells. Tavaré JM, et al. **Biochem Soc Trans** 1996 May; 24(2):378–84 (33 ref.)
Three steps in the regulation of transcription by the thyroid hormone receptor: establishment of a repressive chromatin structure, disruption of chromatin and transcriptional activation. Wolffe AP, et al. **Biochem Soc Trans** 1997 May; 25(2):612–5 (18 ref.)
3' untranslated region-mediated regulation of luteinizing hormone/human chorionic gonadotropin receptor expression. Lu DL, et al. **Biochemistry** 1996 Sep 24; 35(38):12347–53
Involvement of an SAF-like transcription factor in the activation of serum amyloid A gene in monocyte/macrophage cells by lipopolysaccharide. Ray BK, et al. **Biochemistry** 1997 Apr 15;36(15):4662–8
Multiple negative and positive cis-acting elements control the expression of the murine CD4 gene. McCready PM, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):181–91
Viscosity regulates apolipoprotein A-1 gene expression in experimental models of secondary hyperlipidemia and in cultured hepatocytes. Nuño P, et al.
Biochim Biophys Acta 1997 Feb 18;1344(3):262–9
Altered expression of the Ca(2+)-binding protein S100A1 in human cardiomyopathy. Remppis A, et al.
Biochim Biophys Acta 1996 Oct 11;1313(3):253–7
Transcription initiation from TATA-less promoters within eukaryotic protein-coding genes. Smale ST.
Biochim Biophys Acta 1997 Mar 20;1351(1-2):73–88 (105 ref.)
Involvement of tyrosine kinase activity in the low-density lipoprotein receptor expression in human lung adenocarcinoma cell line A549. Gueddari N, et al.
Biochimie 1996;78(10):874–81
Regulation of metallothionein gene expression. Studies in transfected primary cultures of chick embryo liver cells. Lu TH, et al. **Biochimie** 1996;78(4):236–44
Comb-type polycations effectively stabilize DNA triplex. Maruyama A, et al. **Bioconjug Chem** 1997 Jan-Feb;8(1):3–6
Peptide-mediated gene delivery: influence of peptide structure on gene expression. Wadhwa MS, et al.
Bioconjug Chem 1997 Jan-Feb;8(1):81–8
Spatial features of calcium-regulated gene expression. Finkbeiner S, et al. **Bioessays** 1997 Aug;19(8):657–60 (26 ref.)
Mechanism of gene expression by the glucocorticoid receptor: role of protein-protein interactions. McEwan IJ, et al. **Bioessays** 1997 Feb;19(2):153–60 (70 ref.)
The vagaries of variegating transgenes. Martin DI, et al.
Bioessays 1996 Nov;18(11):919–23 (46 ref.)
Differential regulation of c-Jun and JunD by ubiquitin-dependent protein degradation. Musti AM, et al.
Biol Chem 1996 Oct;377(10):619–24
Interleukin-1 alpha upregulates the expression of surfactant protein-A in rabbit lung explants. Dhar V, et al.
Biol Neonate 1997;71(1):46–52
Transcriptional regulation of sertoli cell differentiation by follicle-stimulating hormone at the level of the c-fos and transferrin promoters. Chaudhary J, et al. **Biol Reprod** 1996 Mar;54(3):692–9
Modulation of clusterin gene expression in the rat mammary gland during pregnancy, lactation, and involution. French LE, et al. **Biol Reprod** 1996 Dec;55(6):1213–20
Ontogeny and regulation of luteinizing hormone receptor messenger ribonucleic acid within the ovine corpus luteum. Smith GW, et al. **Biol Reprod** 1996 Jan;54(1):76–83
Potential sites of prostaglandin actions in the periimplantation mouse uterus: differential expression and regulation of prostaglandin receptor genes. Yang ZM, et al.
Biol Reprod 1997 Feb;56(2):368–79
A dual-function palindromic sequence regulates testis-specific transcription of the mouse lactate dehydrogenase c gene in vitro. Zhou W, et al.
Biol Reprod 1996 Jan;54(1):84–90
Physiological aspects of Trypanosoma cruzi gene regulation during heat-shock. De Carvalho EF, et al. **Biol Res** 1994; 27(3-4):225–31
Cell cycle- and age-dependent transcriptional regulation of human thymidine kinase gene: the role of NF-Y in the CBP/tk binding complex. Good LF, et al. **Biol Signals** 1996 May-Jun;5(3):163–9
Regulation of gene expression and transcription factor binding activity during cellular aging. Meyyappan M, et al. **Biol Signals** 1996 May-Jun;5(3):130–8 (81 ref.)
Role of transcription factors in the age-dependent regulation of the androgen receptor gene in rat liver. Supakar PC, et al. **Biol Signals** 1996 May-Jun;5(3):170–9 (37 ref.)
An immunocytochemical technique for analysis of regulation of genes encoding early differentiation marker antigens in an oocyte translation system. Nishizawa K, et al.
Biotech Histochem 1996 Mar;71(2):73–8
Improved dicistronic mRNA expression vectors for efficient selection of transfectants highly expressing foreign genes. Kobayashi M, et al. **Biotechniques** 1996 Sep;21(3):398–402
Use of a dicistronic expression cassette encoding the green fluorescent protein for the screening and selection of cells expressing inducible gene products. Mosser DD, et al.
Biotechniques 1997 Jan;22(1):150–4, 156, 158–61
Regulation of the plasminogen activator inhibitor type-2 gene in monocytes: localization of an upstream

transcriptional silencer. Antalis TM, et al. **Blood** 1996 Nov 15;88(10):3686–97

Human MafG is a functional partner for p45 NF–E2 in activating globin gene expression. Blank V, et al. **Blood** 1997 Jun 1;89(11):3925–35

Constitutive expression of Mpl ligand transcripts during thrombocytopenia or thrombocytosis. Cohen–Solal K, et al. **Blood** 1996 Oct 1;88(7):2578–84

Lineage– and stage–specific expression of runt box polypeptides in primitive and definitive hematopoiesis. Corsetti MT, et al. **Blood** 1997 Apr 1;89(7):2359–68

Activation of delta–globin gene expression by erythroid Krupple–like factor: a potential approach for gene therapy of sickle cell disease. Donze D, et al. **Blood** 1996 Nov 15; 88(10):4051–7

beta–Thalassemia mutation at –90C—>T impairs the interaction of the proximal CACCC box with both erythroid and nonerythroid factors [letter] Faustino P, et al. **Blood** 1996 Oct 15;88(8):3248–9

Expression of the RET receptor tyrosine kinase and GDNFR–alpha in normal and leukemic human hematopoietic cells and stromal cells of the bone marrow microenvironment. Gattei V, et al. **Blood** 1997 Apr 15; 89(8):2925–37

Induction of hypoxia–inducible factor–1, erythropoietin, vascular endothelial growth factor, and glucose transporter–1 by hypoxia: evidence against a regulatory role for Src kinase. Gleadle JM, et al. **Blood** 1997 Jan 15; 89(2):503–9

Activating mutations in cytokine receptors: implications for receptor function and role in disease. Gonda TJ, et al. **Blood** 1997 Jan 15;89(2):355–69 (138 ref.)

Chronic expression of murine flt3 ligand in mice results in increased circulating white blood cell levels and abnormal cellular infiltrates associated with splenic fibrosis. Juan TS, et al. **Blood** 1997 Jul 1;90(1):76–84

Chromatin structure and transcriptional regulation of human RAG–1 gene. Kitagawa T, et al. **Blood** 1996 Nov 15; 88(10):3785–91

Thymocyte Fas expression is dysregulated in myasthenia gravis patients with anti–acetylcholine receptor antibody. Moulian N, et al. **Blood** 1997 May 1;89(9):3287–95

Pyrrolidine dithiocarbamate inhibits the production of interleukin–6, interleukin–8, and granulocyte–macrophage colony–stimulating factor by human endothelial cells in response to inflammatory mediators: modulation of NF–kappa B and AP–1 transcription factors activity. Muñoz C, et al. **Blood** 1996 Nov 1;88(9):3482–90

Microphthalmia (mi) in murine mast cells: regulation of its stimuli–mediated expression on the translational level. Nechushtan H, et al. **Blood** 1997 Apr 15;89(8):2999–3008

Human blood basophils produce interleukin–13 in response to IgE–receptor–dependent and –independent activation. Ochensberger B, et al. **Blood** 1996 Oct 15;88(8):3028–37

Granulocytic and monocytic differentiation of CD34hi cells is associated with distinct changes in the expression of the PU.1–regulated molecules, CD64 and macrophage colony–stimulating factor receptor. Olweus J, et al. **Blood** 1996 Nov 15;88(10):3741–54

Expression of Wiskott–Aldrich syndrome protein (WASP) gene during hematopoietic differentiation. Parolini O, et al. **Blood** 1997 Jul 1;90(1):70–5

A cell proliferation–dependent multiprotein complex NC–3A positively regulates the CD34 promoter via a TCATTT–containing element. Perrotti D, et al. **Blood** 1996 Nov 1;88(9):3336–48

Altered oncoprotein expression and apoptosis in myelodysplastic syndrome marrow cells. Rajapaksa R, et al. **Blood** 1996 Dec 1;88(11):4275–87

Localization and regulation of thrombopoietin mRNA expression in human kidney, liver, bone marrow, and spleen using in situ hybridization. Sungaran R, et al. **Blood** 1997 Jan 1;89(1):101–7

Restoration of the CCAAT box or insertion of the CACCC motif activate delta–globin gene expression. Tang DC, et al. **Blood** 1997 Jul 1;90(1):421–7

Bone marrow and thymus expression of interferon–gamma results in severe B–cell lineage reduction, T–cell lineage alterations, and hematopoietic progenitor deficiencies. Young HA, et al. **Blood** 1997 Jan 15;89(2):583–95

Human fibroblasts downregulate plasminogen activator inhibitor type–1 in cultured human macrovascular and microvascular endothelial cells. Zhang JC, et al. **Blood** 1996 Nov 15;88(10):3880–6

Mcl–1, a Bcl–2 family member, delays the death of hematopoietic cells under a variety of apoptosis–inducing conditions. Zhou P, et al. **Blood** 1997 Jan 15;89(2):630–43

The vascular wall as a target for association studies by the candidate gene approach. Mao C, et al. **Blood Press Suppl** 1996;4:6–11 (47 ref.)

Regulatory mechanisms of MuRantes and CRG–2 chemokine gene induction in central nervous system glial cells by virus. Fisher SN, et al. **Brain Behav Immun** 1995 Dec;9(4):331–44

Central nervous system chemokine mRNA accumulation follows initial leukocyte entry at the onset of acute murine experimental autoimmune encephalomyelitis. Glabinski AR, et al. **Brain Behav Immun** 1995 Dec;9(4):315–30

Stress downregulates lipopolysaccharide–induced expression of proinflammatory cytokines in the spleen, pituitary, and brain of mice. Goujon E, et al. **Brain Behav Immun** 1995 Dec;9(4):292–303

Modulation of interleukin–1 receptors in the brain–endocrine–immune axis by stress and infection. Takao T, et al. **Brain Behav Immun** 1995 Dec;9(4):276–91

Induction of NGFI–A gene expression in the rat suprachiasmatic nucleus by photic stimulation. Tanaka M, et al. **Brain Res** 1997 May 9;756(1–2):305–10

Transient expression of the mitogen–activated protein kinase phosphatase MKP–1 (3CH134/ERP1) in the rat brain after limbic epilepsy. Gass P, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):74–80

Expression of c–fos, jun D and pp60c–src+ mRNAs in the developing and grafted rat striatum. Haque NS, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):90–6

Anoxia regulates gene expression in the central nervous system of Drosophila melanogaster. Ma E, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):325–8

Rapid and transient up–regulation of Na+/myo–inositol cotransporter transcription in the brain of acute hypernatremic rats. Minami Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):64–70

Gonadotropin–releasing hormone gene expression in teleosts. Parhar IS, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1–2):216–27

The human bone sialoprotein gene contains an NF–E1/YY1 cis–acting sequence with putative regulatory activity. Kerr JM, et al. **Calcif Tissue Int** 1997 Mar;60(3):276–82

Selective hyperexpression of c–jun oncoprotein by glass fiber– and silica–transformed BALB/c–3T3 cells. Gao H, et al. **Cancer Lett** 1997 Jan 15;112(1):65–9

Decrease in the expression of a novel TGF beta1–inducible and ras–recision gene, TSC–36, in human cancer cells. Mashimo J, et al. **Cancer Lett** 1997 Feb 26;113(1–2):213–9

KAI1 expression is up–regulated in early pancreatic cancer and decreased in the presence of metastases. Guo X, et al. **Cancer Res** 1996 Nov 1;56(21):4876–80

Selective inhibition of estrogen–regulated gene expression in vivo by the pure antiestrogen ICI 182,780. Hyder SM, et al. **Cancer Res** 1997 Jul 1;57(13):2547–9

Cell–specific regulation of human CYP1A1 and CYP1B1 genes. Kress S, et al. **Cancer Res** 1997 Apr 1;57(7):1264–9

Up–regulation of vascular endothelial growth factor/vascular permeability factor in mouse skin carcinogenesis correlates with malignant progression state and activated H–ras expression levels. Larcher F, et al. **Cancer Res** 1996 Dec 1;56(23):5391–6

Posttranscriptional regulation of p21WAF1/CIP1 expression in human breast carcinoma cells. Li XS, et al. **Cancer Res** 1996 Nov 1;56(21):5055–62

Induction of cell growth regulatory genes by p53. Madden SL, et al. **Cancer Res** 1996 Dec 1;56(23):5384–90

Phenobarbital causes apoptosis in conditionally immortalized mouse hepatocytes depending on deregulated c–myc expression: characterization of an unexpected effect. Osanai M, et al. **Cancer Res** 1997 Jul 15;57(14):2896–903

The angiogenic switch in hamster buccal pouch keratinocytes is dependent on TGFbeta–1 and is unaffected by ras activation. Lingen MW, et al. **Carcinogenesis** 1997 Feb; 18(2):329–38

Genetic and epigenetic aspects of DNA methylation on genome expression, evolution, mutation and carcinogenesis. Zingg JM, et al. **Carcinogenesis** 1997 May;18(5):869–82 (882 ref.)

Ending the message is not so simple. Proudfoot N. **Cell** 1996 Nov 29;87(5):779–81 (15 ref.)

Promoter proximal sequences modulate RNA polymerase II elongation by a novel mechanism. Reeder TC, et al. **Cell** 1996 Nov 15;87(4):767–77

Transcriptional checkpoints determining the fate of male germ cells. Sassone–Corsi P. **Cell** 1997 Jan 24;88(2):163–6 (22 ref.)

Kinetochore localization of murine Bub1 is required for normal mitotic timing and checkpoint response to spindle damage. Taylor SS, et al. **Cell** 1997 May 30;89(5):727–35

A distinct mRNA encoding a soluble form of ICAM–1 molecule expressed in human tissues. Wakatsuki T, et al. **Cell Adhes Commun** 1995 Nov;3(4):283–92

On the role of a mutational database in building artificial intelligence models for understanding gene expression [letter] Nair TM, et al. **Cell Biochem Biophys** 1995; 27(3):227–30

The expression of the human chorionic gonadotropin beta subunit gene depends on negative control. Chen YH, et al. **Cell Biochem Funct** 1996 Dec;14(4):297–301

Hyperthermic stress affects glucocorticoid receptor–mediated transcription in rat liver. Vidović S, et al. **Cell Biol Int** 1996 Aug;20(8):553–9

Analysis of connexin43 expression under the control of a metallothionein promoter. Bechberger JF, et al. **Cell Growth Differ** 1996 Oct;7(10):1403–13

Differential regulation of human fibroblast growth factor 1 transcripts provides a distinct mechanism of cell–specific growth factor expression. Chotani MA, et al. **Cell Growth Differ** 1997 Sep;8(9):999–1013

Regulation of GM–CSF gene transcription by core–binding factor. Cockerill PN, et al. **Cell Growth Differ** 1996 Jul; 7(7):917–22

Constitutive expression of full–length c–Myb transforms avian cells characteristic of both the monocytic and granulocytic lineages. Fu SL, et al. **Cell Growth Differ** 1997 Jan;8(1):35–45

A novel transforming growth factor beta response element controls the expression of the connective tissue growth factor gene. Grotendorst GR, et al. **Cell Growth Differ** 1996 Apr;7(4):469–80

Sequence requirements for alpha–fetoprotein gene expression during liver regeneration. Lin Y, et al. **Cell Growth Differ** 1995 Dec;6(12):1549–58

Autoactivation of Xenopus MyoD transcription and its inhibition by USF. Lun Y, et al. **Cell Growth Differ** 1997 Mar;8(3):275–82

Cyclin A message stability varies with the cell cycle. Maity A, et al. **Cell Growth Differ** 1997 Mar;8(3):311–8

A potential role for cell cycle control proteins in regulation of the cyclic adenosine 5'–monophosphate–responsive glycoprotein hormone alpha subunit gene. Pestell RG, et al. **Cell Growth Differ** 1996 Oct;7(10):1337–44

Hepatocyte nuclear factor–3 alpha promoter regulation involves recognition by cell–specific factors, thyroid transcription factor–1, and autoactivation. Peterson RS, et al. **Cell Growth Differ** 1997 Jan;8(1):69–82

All–trans–retinoic acid mediates G1 arrest but not apoptosis of normal human mammary epithelial cells. Seewaldt VL, et al. **Cell Growth Differ** 1997 Jun;8(6):631–41

Differential expression of gas and gadd genes at distinct growth arrest points during adipocyte development. Shugart EC, et al. **Cell Growth Differ** 1995 Dec; 6(12):1541–7

Differential regulation of cyclin B1 RNA and protein expression during hepatocyte growth in vivo. Trembley JH, et al. **Cell Growth Differ** 1996 Jul;7(7):903–16

Complex regulation of human c–kit transcription by promoter repressors, activators, and specific myb elements. Vandenbark GR, et al. **Cell Growth Differ** 1996 Oct; 7(10):1383–92

Coordination of transcription factors, NF–Y and C/EBP beta, in the regulation of the mdr1b promoter. Yu L, et al. **Cell Growth Differ** 1995 Dec;6(12):1505–12

A novel cis–acting element is involved in the promoter activity of the rat mdr1b gene. Zhou G, et al. **Cell Growth Differ** 1996 Oct;7(10):1369–81

Circulating CD8 T cells show increased interferon–gamma mRNA expression in HIV infection. Breen EC, et al. **Cell Immunol** 1997 May 25;178(1):91–8

Retinoic acid induces the expression of germ–line C alpha transcript mainly by a TGF–beta–independent mechanism. Tokuyama H, et al. **Cell Immunol** 1997 Feb 25;176(1):14–21

Tissue–specific and growth–regulated expression of CD44 variable exon determinants in the mouse. Yamashita Y, et al. **Cell Immunol** 1997 Feb 25;176(1):22–33

Regulation of hsp expression during rodent spermatogenesis. Sarge KD, et al. **Cell Mol Life Sci** 1997 Feb;53(2):191–7 (38 ref.)

Changes in the amount and distribution of prosomal subunits during the differentiation of U937 myeloid cells: high expression of p23K. Henry L, et al. **Cell Prolif** 1996 Nov; 29(11):589–607

An inositolphosphate glycan released by TGF–beta mimics the proliferative but not the transcriptional effects of the factor and requires functional receptors. Bogdanowicz P, et al. **Cell Signal** 1996 Nov;8(7):503–9

Involvement of a pertussis–toxin sensitive G protein in the induction of gene expression by insulin. Butler AP, et al. **Cell Signal** 1996 Nov;8(7):475–80 (47 ref.)

Glutamate receptors and gene induction: signalling from receptor to nucleus. Lerea LS. **Cell Signal** 1997 May–Jun; 9(3–4):219–26 (72 ref.)

Involvement of reactive oxygen species in the induction of chemokine JE/MCP–1 gene by phorbol–12–myristate–13–acetate in Balb 3T3 cells. Murata M, et al. **Cell Struct Funct** 1997 Apr;22(2):231–8

Regulation of intracellular cholesterol metabolism. Sato R, et al. **Cell Struct Funct** 1995 Dec;20(6):421–7 (44 ref.)

Cytological study of the brown dominant position effect. Belyaeva ES, et al. **Chromosoma** 1997 Jul;106(2):124–32

Significance of circadian gene expression in higher plants. Beator J, et al. **Chronobiol Int** 1996 Nov;13(5):319–39 (128 ref.)

E–selectin gene expression in vascular smooth muscle cells. Evidence for a tissue–specific repressor protein. Chen XL, et al. **Circ Res** 1997 Mar;80(3):305–11

Nitric oxide induces heme oxygenase–1 gene expression and carbon monoxide production in vascular smooth muscle cells. Durante W, et al. **Circ Res** 1997 Apr;80(4):557–64

Ras inhibits Jun–activated human atrial natriuretic peptide gene transcription in cultured ventricular myocytes. Kovacic–Milivojevic B, et al. **Circ Res** 1997 Apr; 80(4):580–8

Factors involved in cardiogenesis and the regulation of cardiac–specific gene expression. Mably JD, et al. **Circ Res** 1996 Jul;79(1):4–13 (74 ref.)

Conditional transgene expression in the heart. Yu Z, et al. **Circ Res** 1996 Oct;79(4):691–7

Fatty acid oxidation enzyme gene expression is downregulated in the failing heart. Sack MN, et al. **Circulation** 1996 Dec 1;94(11):2837–42

Regulation of dopamine–1A (D1A) receptor gene transcription. Healy DP, et al. **Clin Exp Hypertens** 1997 Jan–Feb;19(1–2):1–13

Regulation of hepatic angiotensinogen gene expression in nephrotic rats. Medina–Campos ON, et al. **Clin Exp Hypertens** 1997 Apr;19(3):343–62

Hyperinducible expression of the interferon–gamma (IFN–gamma) gene and its suppression in systemic lupus erythematosus (SLE). Gerez L, et al. **Clin Exp Immunol** 1997 Aug;109(2):296–303

Regulation of expression of the endothelial cell nitric oxide synthase. Harrison DG, et al. **Clin Exp Pharmacol Physiol** 1996 Mar;23(3):251–5 (36 ref.)

Regulation of bone sialoprotein and osteopontin mRNA expression by dexamethasone and 1,25–dihydroxyvitamin D3 in rat bone organ cultures. Chen J, et al. **Connect Tissue Res** 1996;34(1):41–51

Genes and gene regulation of extracellular matrix proteins: an introduction. Sandell LJ. **Connect Tissue Res** 1996; 35(1–4):1–6 (17 ref.)

Regulation of osteopontin expression by type I collagen in preosteoblastic UMR201 cells. Traianedes K, et al. **Connect Tissue Res** 1996;34(1):63–74

Transcriptional control of matrix metalloproteinases and the tissue inhibitors of matrix metalloproteinases. Borden P, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1–2):159–78 (150 ref.)

Regulation and activities of alpha–fetoprotein. Chen H, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1–2):11–41 (364 ref.)

Lessons in transcriptional regulation learned from studies on immunoglobulin genes. Henderson AJ, et al. **Crit Rev Eukaryot Gene Expr** 1995;5(3–4):255–80 (257 ref.)

Gene regulation associated with apoptosis. Jehn BM, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1–2):179–93 (98 ref.)

Transcriptional control mechanisms in the regulation of cholesterol balance. Osborne TF. **Crit Rev Eukaryot Gene Expr** 1995;5(3–4):317–35 (96 ref.)

Regulating expression of the gene for matrix metalloproteinase–1 (collagenase): mechanisms that control enzyme activity, transcription, and mRNA stability. Vincenti MP, et al. **Crit Rev Eukaryot Gene Expr** 1996; 6(4):391–411 (169 ref.)

Regulation of class II MHC expression. Rohn WM, et al. **Crit Rev Immunol** 1996;16(3):311–30 (172 ref.)

DNA methylation directs a time–dependent repression of transcription initiation. Kass SU, et al. **Curr Biol** 1997 Mar 1;7(3): 157–65

Cryptic physiological trophic support of motoneurons by LIF revealed by double gene targeting of CNTF and LIF. Sendtner M, et al. **Curr Biol** 1996 Jun 1;6(6):686–94

DNA methylation: a molecular lock. Siegfried Z, et al. **Curr Biol** 1997 May 1;7(5):R305–7 (18 ref.)

Cell cycle: on target with Myc. Zörnig M, et al. **Curr Biol** 1996 Dec 1;6(12):1553–6 (22 ref.)

Expression of the arylsulphatase reporter gene under the control of the nit1 promoter in Chlamydomonas reinhardtii. Ohresser M, et al. **Curr Genet** 1997 Mar;31(3):264–71

Bibliography. Current world literature. Nucleus and gene expression. **Curr Opin Cell Biol** 1997 Jun;9(3):433–71

Nucleus and gene expression [editorial] Berk A, et al. **Curr Opin Cell Biol** 1997 Jun;9(3):307–9

RNA polymerase II holoenzyme and transcriptional regulation. Greenblatt J. **Curr Opin Cell Biol** 1997 Jun; 9(3):310–9 (78 ref.)

Nuclear organization and gene expression: homologous pairing and long–range interactions. Henikoff S. **Curr Opin Cell Biol** 1997 Jun;9(3):388–95 (71 ref.)

The cytoskeleton in mRNA localization and cell differentiation. Nasmyth K, et al. **Curr Opin Cell Biol** 1997 Jun;9(3):396–400

Web alert. Nucleus and gene expression. Pines J, et al. **Curr Opin Cell Biol** 1997 Jun;9(3):431

Differentiation and gene regulation. **Curr Opin Genet Dev** 1996 Oct;6(5):639–82

Differentiation and gene regulation. Differentiation from bacteria to humans. Dawid IB, et al. **Curr Opin Genet Dev** 1996 Oct;6(5):523–5

Transcriptional control of Hox genes in the vertebrate nervous system. Lufkin T. **Curr Opin Genet Dev** 1996 Oct; 6(5):575–80 (66 ref.)

Regulation of beta–globin gene expression: straightening out the locus. Martin DI, et al. **Curr Opin Genet Dev** 1996 Aug;6(4):488–95 (65 ref.)

Retinoid receptors in transcriptional regulation. Minucci S, et al. **Curr Opin Genet Dev** 1996 Oct;6(5):567–74 (67 ref.)

Defining the regulatory networks for muscle development. Molkentin JD, et al. **Curr Opin Genet Dev** 1996 Aug; 6(4):445–53 (58 ref.)

Specific effects of polyunsaturated fatty acids on gene expression. Baillie RA, et al. **Curr Opin Lipidol** 1996 Feb; 7(1):53–5 (16 ref.)

Gene regulation by reactive oxygen species. Cimino F, et al. **Curr Top Cell Regul** 1997;35:123–48 (135 ref.)

Genomic localization of the human gene encoding Dr1, a negative modulator of transcription of class II and class III genes. Purrello M, et al. **Cytogenet Cell Genet** 1996; 75(2–3):186–9

TNF gene expression in monocytes of low and high responder individuals. Schraut W, et al. **Cytokine** 1997 Mar; 9(3):206–11

A set of novel tadpole specific genes expressed only in the epidermis are down–regulated by thyroid hormone during Xenopus laevis metamorphosis. Furlow JD, et al. **Dev Biol** 1997 Feb 15;182(2):284–98

Hormonally regulated expression and alternative splicing of kit ligand may regulate kit–induced inhibition of meiosis in rat oocytes. Ismail RS, et al. **Dev Biol** 1997 Apr 15; 184(2):333–42

Human E2F–1 reactivates cell cycle progression in ventricular myocytes and represses cardiac gene transcription. Kirshenbaum LA, et al. **Dev Biol** 1996 Nov 1;179(2):402–11

Ectopic expression of MEF2 in the epidermis induces epidermal expression of muscle genes and abnormal muscle development in Drosophila. Lin MH, et al. **Dev Biol** 1997 Feb 15;182(2):240–55

Pem: a testosterone– and LH–regulated homeobox gene expressed in mouse Sertoli cells and epididymis. Lindsey JS, et al. **Dev Biol** 1996 Nov 1;179(2):471–84

Genes induced in programmed cell death of neuronal PC12 cells and developing sympathetic neurons in vivo. Wang S, et al. **Dev Biol** 1997 Aug 15;188(2):322–36

Regulation of the Wilms' tumor gene during spermatogenesis. Del Rio–Tsonis K, et al. **Dev Dyn** 1996 Dec;207(4):372–81

Transcriptional control of muscle plasticity: differential regulation of troponin I genes by electrical activity. Calvo S, et al. **Dev Genet** 1996;19(2):169–81

Coordinate changes of myosin light and heavy chain isoforms during forced fiber type transitions in rabbit muscle. Leeuw T, et al. **Dev Genet** 1996;19(2):163–8

Lens–preferred activity of chicken delta 1– and delta 2–crystallin enhancers in transgenic mice and evidence for retinoic acid–responsive regulation of the delta 1–crystallin gene. Li X, et al. **Dev Genet** 1997;20(3):258–66

Sodium channel expression: a dynamic process in neurons and non–neuronal cells. Black JA, et al. **Dev Neurosci** 1996; 18(3):139–52 (101 ref.)

Regulation of sodium channel gene expression by transcriptional silencing. Eggen BJ, et al. **Dev Neurosci** 1997;19(1):25–6

Germ–line tumor formation caused by activation of glp–1, a Caenorhabditis elegans member of the Notch family of receptors. Berry LW, et al. **Development** 1997 Feb; 124(4):925–36

Characterization of a notochord–specific enhancer from the Brachyury promoter region of the ascidian, Ciona intestinalis. Corbo JC, et al. **Development** 1997 Feb; 124(3):589–602

Differential regulation of the p80 tumor necrosis factor receptor in human obesity and insulin resistance. Hotamisligil GS, et al. **Diabetes** 1997 Mar;46(3):451–5

Dual function of the intron of the rat insulin I gene in regulation of gene expression. Damert A, et al. **Diabetologia** 1996 Oct;39(10):1165–72

Genomic imprinting and the endometrial cycle. The expression of the imprinted gene H19 in the human female reproductive organs. Ariel I, et al. **Diagn Mol Pathol** 1997 Feb;6(1):17–25

FMR1 enhancer is regulated by cAMP through a cAMP–responsive element. Hwu WL, et al. **DNA Cell Biol** 1997 Apr;16(4):449–53

The enhancers of the human placental lactogen B, A, and L genes: progressive activation during in vitro trophoblast differentiation and importance of the DF–3 element in determining their respective activities. Jacquemin P, et al. **DNA Cell Biol** 1996 Oct;15(10):845–54

The transcriptional and translational control of diazepam binding inhibitor expression in rat male germ–line cells. Kolmer M, et al. **DNA Cell Biol** 1997 Jan;16(1):59–72

RXR–mediated regulation of the alpha–fetoprotein gene through an upstream element. Li C, et al. **DNA Cell Biol** 1996 Nov;15(11):955–63

A competitive mechanism of CArG element regulation by YY1 and SRF: implications for assessment of Phox1/MHox transcription factor interactions at CArG elements. Martin KA, et al. **DNA Cell Biol** 1997 May;16(5):653–61

Serum amyloid A gene expression level in liver in response to different inflammatory agents is dependent upon the nature of activated transcription factors. Ray A, et al. **DNA Cell Biol** 1997 Jan;16(1):1–7

Identification of the promoters for the human and murine protective protein/cathepsin A genes. Rottier RJ, et al. **DNA Cell Biol** 1997 May;16(5):599–610

Enhanced expression in spleen macrophages of the mouse homolog to the human putative tumor suppressor gene ZFM1. Wrehlke C, et al. **DNA Cell Biol** 1997 Jun; 16(6):761–7

Molecular cloning of the mouse apolipoprotein D gene and its upregulated expression in Niemann–Pick disease type C mouse model. Yoshida K, et al. **DNA Cell Biol** 1996 Oct;15(10):873–82

DENN, a novel human gene differentially expressed in normal and neoplastic cells. Chow VT, et al. **DNA Seq** 1996;6(5):263–73

Repressor induced site–specific binding of HU for transcriptional regulation. Aki T, et al. **EMBO J** 1997 Jun; 16(12):3666–74

Functional dissection of a transcriptionally active, target–specific Hox–Pbx complex. Di Rocco G, et al. **EMBO J** 1997 Jun;16(12):3644–54

Myc–Max heterodimers activate a DEAD box gene and interact with multiple E box–related sites in vivo. Grandori C, et al. **EMBO J** 1996 Aug 15;15(16):4344–57

Coordinated regulation of gene expression by the cell cycle transcription factor Swi4 and the protein kinase C MAP kinase pathway for yeast cell integrity. Igual JC, et al. **EMBO J** 1996 Sep 16;15(18):5001–13

T–cell subset–specific expression of the IL–4 gene is regulated by a silencer element and STAT6. Kubo M, et al. **EMBO J** 1997 Jul 1;16(13):4007–20

Mammalian homologues of the Polycomb–group gene Enhancer of zeste mediate gene silencing in Drosophila heterochromatin and at S. cerevisiae telomeres. Laible G, et al. **EMBO J** 1997 Jun 2;16(11):3219–32

A possible involvement of TIF1 alpha and TIF1 beta in the epigenetic control of transcription by nuclear receptors. Le Douarin B, et al. **EMBO J** 1996 Dec 2;15(23):6701–15

Adjacent DNA elements dominantly restrict the ubiquitous activity of a novel chromatin–opening region to specific tissues. Ortiz BD, et al. **EMBO J** 1997 Aug 15; 16(16):5037–45

c–Myb and Ets proteins synergize to overcome transcriptional repression by ZEB. Postigo AA, et al. **EMBO J** 1997 Jul 1;16(13):3924–34

ZEB, a vertebrate homolog of Drosophila Zfh–1, is a negative regulator of muscle differentiation. Postigo AA, et al. **EMBO J** 1997 Jul 1;16(13):3935–43

Tyrosine kinase activation is an immediate and essential step in hypotonic cell swelling–induced ERK activation and c–fos gene expression in cardiac myocytes. Sadoshima J, et al. **EMBO J** 1996 Oct 15;15(20):5535–46

Histone octamer function in vivo: mutations in the dimer–tetramer interfaces disrupt both gene activation and repression. Santisteban MS, et al. **EMBO J** 1997 May 1; 16(9):2493–506

Multiple circadian–regulated elements contribute to cycling period gene expression in Drosophila. Stanewsky R, et al. **EMBO J** 1997 Aug 15;16(16):5006–18

Regulation and physiological role of insulin–like growth factor binding proteins. Conover CA. **Endocr J** 1996 Oct; 43 Suppl:S43–8 (36 ref.)

Control of insulin–like growth factor (IGF) action by regulation of IGF–I receptor expression. Roberts CT Jr. **Endocr J** 1996 Oct;43 Suppl:S49–55 (50 ref.)

Characterization of the hamster CYP11B2 gene regulatory regions. Coulombe N, et al. **Endocr Res** 1996 Nov; 22(4):653–61

Multiple signal transduction systems regulate angiotensin II type 1 (AT1) receptor mRNA expression in bovine adrenocortical cells. Dell GC, et al. **Endocr Res** 1996 Nov; 22(4):363–8

Extrapituitary prolactin: distribution, regulation, functions, and clinical aspects. Ben–Jonathan N, et al. **Endocr Rev** 1996 Dec;17(6):639–69 (368 ref.)

The biology of vascular endothelial growth factor. Ferrara N, et al. **Endocr Rev** 1997 Feb;18(1):4–25 (250 ref.)

Aberrant 11beta–hydroxysteroid dehydrogenase–1 activity in the cpk mouse: implications for regulation by the Ke 6 gene. Aziz N, et al. **Endocrinology** 1996 Dec;137(12):5581–8

Gonadotropin–releasing hormone regulates follicle–stimulating hormone–beta gene expression through an activin/follistatin autocrine or paracrine loop. Besecke LM, et al. **Endocrinology** 1996 Sep;137(9):3667–73

A putative binding site for Sp1 is involved in transcriptional regulation of CYP17 gene expression in bovine ovary. Borroni R, et al. **Endocrinology** 1997 May;138(5):2011–20

Expression and region–specific regulation of the oxytocin receptor gene in rat brain. Breton C, et al. **Endocrinology** 1997 May;138(5):1857–62

Liver and kidney growth hormone (GH) receptors are regulated differently in diabetic GH and GH antagonist transgenic mice. Chen NY, et al. **Endocrinology** 1997 May; 138(5):1988–94

Cloning of the functional promoter for human insulin–like growth factor binding protein–4 gene: endogenous regulation. Dai B, et al. **Endocrinology** 1997 Jan; 138(1):332–43

Characterization of multiple promoters directing tissue–specific expression of the human gonadotropin–releasing hormone gene. Dong KW, et al. **Endocrinology** 1997 Jul;138(7):2754–62

Effect of thyroid hormones on peptidylglycine alpha–amidating monooxygenase gene expression in anterior pituitary gland: transcriptional studies and messenger ribonucleic acid stability. Fraboulet S, et al. **Endocrinology** 1996 Dec;137(12):5493–501

Effect of retinoid status on the messenger ribonucleic acid expression of nuclear retinoid receptors alpha, beta, and gamma, and retinoid X receptors alpha, beta, and gamma in the mouse testis. Gaemers IC, et al. **Endocrinology** 1997 Apr;138(4):1544–51

Molecular cloning of spermidine/spermine N1–acetyltransferase from the periimplantation porcine uterus by messenger ribonucleic acid differential display: temporal and conceptus–modulated gene expression. Green ML, et al. **Endocrinology** 1996 Dec;137(12):5447–55

GnRH regulates steroidogenic factor–1 (SF–1) gene expression in the rat pituitary. Haisenleder DJ, et al. **Endocrinology** 1996 Dec;137(12):5719–22

Mothers against decapentaplegic–related protein 2 expression in avian granulosa cells is up–regulated by transforming growth factor beta during ovarian follicular development. Li M, et al. **Endocrinology** 1997 Sep;138(9):3659–65

The ovine pars tuberalis secretes a factor(s) that regulates gene expression in both lactotropic and nonlactotropic pituitary cells. Morgan PJ, et al. **Endocrinology** 1996 Sep; 137(9):4018–26

Expression of Indian hedgehog in osteoblasts and its posttranscriptional regulation by transforming growth factor–beta. Murakami S, et al. **Endocrinology** 1997 May; 138(5):1972–8

Water deprivation increases the expression of pituitary adenylate cyclase–activating polypeptide gene in the rat subfornical organ. Nomura M, et al. **Endocrinology** 1997 Oct;138(10):4096–100

Regulation of uncoupling protein messenger ribonucleic acid and 5'-deiodinase activity by thyroid hormones in fetal brown adipose tissue. Obregón MJ, et al. **Endocrinology** 1996 Nov;137(11):4721–9

Analysis of differential gene regulation in adequate versus inadequate secretory-phase endometrial complementary deoxyribonucleic acid populations from the rhesus monkey. Okulicz WC, et al. **Endocrinology** 1996 Nov; 137(11):4844–50

Thyrotropin-releasing hormone gene expression by anterior pituitary cells in long-term cultures is influenced by the culture conditions and cell-to-cell interactions. Peters A, et al. **Endocrinology** 1997 Jul;138(7):2807–12

Characterization of the cholecystokinin and gastrin genes from the bullfrog, Rana catesbeiana: evolutionary conservation of primary and secondary sites of gene expression. Rourke IJ, et al. **Endocrinology** 1997 Apr; 138(4):1719–27

Regulation of thyrotropin receptor gene expression in 3T3-L1 adipose cells is distinct from its regulation in FRTL-5 thyroid cells. Shimura H, et al. **Endocrinology** 1997 Apr;138(4):1483–90

Human stem cell factor promoter deoxyribonucleic acid sequence and regulation by cyclic 3',5'-adenosine monophosphate in a Sertoli cell line. Taylor WE, et al. **Endocrinology** 1996 Dec;137(12):5407–14

Estrogen biosynthesis proximal to a breast tumor is stimulated by PGE2 via cyclic AMP, leading to activation of promoter II of the CYP19 (aromatase) gene. Zhao Y, et al. **Endocrinology** 1996 Dec;137(12):5739–42

Gene regulation by mechanical forces. Oluwole BO, et al. **Endothelium** 1997;5(2):85–93 (29 ref.)

The role of CCAAT/enhancer-binding protein alpha and a protein that binds to the activator-protein-1 site in the regulation of liver-specific expression of the winter flounder antifreeze protein gene. Chan SL, et al. **Eur J Biochem** 1997 Jul 1;247(1):44–51

Glucocorticoid receptor lacking the tau 1 transactivation domain is a gene-specific regulator of the wild-type glucocorticoid-receptor activity. Delaunay F, et al. **Eur J Biochem** 1996 Dec 15;242(3):839–45

Redox-mediated regulation of p21(waf1/cip1) expression involves a post-transcriptional mechanism and activation of the mitogen-activated protein kinase pathway. Esposito F, et al. **Eur J Biochem** 1997 May 1;245(3):730–7

Nuclear factor Y controls the basal transcription activity of the mouse platelet-derived-growth-factor beta-receptor gene. Ishisaki A, et al. **Eur J Biochem** 1997 May 15; 246(1):142–6

Transcriptional and translational adjustments of psbA gene expression in mature chloroplasts during photoinhibition and subsequent repair of photosystem II. Kettunen R, et al. **Eur J Biochem** 1997 Jul 1;247(1):441–8

Differential expression of three Arabidopsis genes encoding the B' regulatory subunit of protein phosphatase 2A. Latorre KA, et al. **Eur J Biochem** 1997 Apr 1;245(1):156–63

Pituitary adenylate-cyclase-activating polypeptide stimulates proto-oncogene expression and activates the AP-1 (c-Fos/c-Jun) transcription factor in AR4-2J pancreatic carcinoma cells. Schäfer H, et al. **Eur J Biochem** 1996 Dec 15;242(3):467–76

The mouse gene for hypoxia-inducible factor-1alpha--genomic organization, expression and characterization of an alternative first exon and 5' flanking sequence. Wenger RH, et al. **Eur J Biochem** 1997 May 15;246(1):155–65

Thyroid hormone and gene expression in the regulation of mitochondrial respiratory function. Pillar TM, et al. **Eur J Endocrinol** 1997 Mar;136(3):231–9 (75 ref.)

Regulation of the uncoupling protein gene expression. Silva JE, et al. **Eur J Endocrinol** 1997 Mar;136(3):251–64 (102 ref.)

Human trefoil peptides: genomic structure in 21q22.3 and coordinated expression. Gött P, et al. **Eur J Hum Genet** 1996;4(6):308–15

Differential expression of insulin-dependent diabetes mellitus-associated HLA-DQA1 alleles in vivo. Maffei A, et al. **Eur J Immunol** 1997 Jun;27(6):1549–56

Early B cell factor binds to a site critical for lambda5 core enhancer activity. Mårtensson A, et al. **Eur J Immunol** 1997 Jan;27(1):315–20

Expression and splicing of the fibronectin gene in healthy and diseased periodontal tissue. Parkar MH, et al. **Eur J Oral Sci** 1997 Jun;105(3):264–70

Expression of hsc 70, but not hsp 70, in human third molar dental pulp. Sens DA, et al. **Eur J Oral Sci** 1997 Jun; 105(3):271–7

Genomic responses to 5-HT1A or 5-HT2A/2C receptor activation is differentially regulated in four regions of rat brain. Tilakaratne N, et al. **Eur J Pharmacol** 1996 Jun 27; 307(2):211–7

The expression of adhesion molecules in cigarette smoke-induced airways obstruction. González S, et al. **Eur Respir J** 1996 Oct;9(10):1995–2001

Modulation of glucocorticoid receptor expression in human bronchial epithelial cell lines by IL-1 beta, TNF-alpha and LPS. Verheggen MM, et al. **Eur Respir J** 1996 Oct; 9(10):2036–43

Regulation of ribosomal RNA gene transcription during retinoic acid-induced differentiation of mouse teratocarcinoma cells. Datta PK, et al. **Exp Cell Res** 1997 Feb 25;231(1):198–205

Expression of the vav oncogene in somatic cell hybrids. Denkinger DJ, et al. **Exp Cell Res** 1997 May 1; 232(2):388–94

Thyrotropin (TSH) beta-subunit gene expression--an example for the complex regulation of pituitary hormone genes. Steinfelder HJ, et al. **Exp Clin Endocrinol Diabetes** 1997;105(4):196–203 (52 ref.)

Expression pattern of human hair keratin basic 1 (hHb1) in hair follicle and pilomatricoma. Régnier CH, et al. **Exp Dermatol** 1997 Apr;6(2):87–90

Profile of cytokine mRNA expression in spontaneous and UV-induced skin lesions from actinic prurigo patients. Santos-Martínez L, et al. **Exp Dermatol** 1997 Apr;6(2):91–7

Barrier disruption increases gene expression of cytokines and the 55 kD TNF receptor in murine skin. Wood LC, et al. **Exp Dermatol** 1997 Apr;6(2):98–104

The Wilms' tumor gene is expressed in a subset of CD34+ progenitors and downregulated early in the course of differentiation in vitro. Maurer U, et al. **Exp Hematol** 1997 Aug;25(9):945–50

Estrogen regulates neurofilament gene expression in adult female rat dorsal root ganglion neurons. Scoville SA, et al. **Exp Neurol** 1997 Aug;146(2):596–9

The induction of c-fos and c-jun in the stretched latissimus dorsi muscle of the rabbit: responses to duration, degree and re-application of the stretch stimulus. Dawes NJ, et al. **Exp Physiol** 1996 May;81(3):329–39

Osmotic regulation of gene expression. Burg MB, et al. **FASEB J** 1996 Dec;10(14):1598–606 (39 ref.)

Regulation of expression of the rodent cytosolic sulfotransferases. Runge-Morris MA. **FASEB J** 1997 Feb; 11(2):109–17 (73 ref.)

Transcriptional regulation of apolipoprotein E expression by cyclic AMP. Andreani-Mangeney M, et al. **FEBS Lett** 1996 Nov 18;397(2-3):155–8

Uncoupling protein-3: a new member of the mitochondrial carrier family with tissue-specific expression. Boss O, et al. **FEBS Lett** 1997 May 12;408(1):39–42

Tissue-dependent upregulation of rat uncoupling protein-2 expression in response to fasting or cold. Boss O, et al. **FEBS Lett** 1997 Jul 21;412(1):111–4

c-Fos transrepression revisited. Cahill MA. **FEBS Lett** 1997 Jan 2;400(1):9–10

Involvement of HNF-1 in the regulation of phosphoenolpyruvate carboxykinase gene expression in the kidney. Cassuto H, et al. **FEBS Lett** 1997 Aug 4; 412(3):597–602

Interleukin-1beta expression is induced by adherence and is enhanced by Fc-receptor binding to immune complex in THP-1 cells. Cobb RR, et al. **FEBS Lett** 1996 Oct 7; 394(3):241–6

The Tetrahymena chaperonin subunit CCT eta gene is coexpressed with CCT gamma gene during cilia biogenesis and cell sexual reproduction. Cyrne L, et al. **FEBS Lett** 1996 Apr 1;383(3):277–83

Dramatic enhancement of the specific expression of the heart-type fatty acid binding protein in rat brown adipose tissue by cold exposure. Daikoku T, et al. **FEBS Lett** 1997 Jun 30;410(2-3):383–6

Transcriptional and translational control over sodium-glucose-linked transporter (SGLT1) gene expression in adult rat small intestine. Dong R, et al. **FEBS Lett** 1997 Apr 7;406(1-2):79–82

Constitutive activation of the TSH receptor by spontaneous mutations affecting the N-terminal extracellular domain. Duprez L, et al. **FEBS Lett** 1997 Jun 16;409(3):469–74

Slow troponin C gene expression in chicken heart and liver is regulated by similar enhancers. Grewal JS, et al. **FEBS Lett** 1996 Apr 1;383(3):267–72

Hypoosmolarity and glutamine increased the beta-actin gene transcription in isolated rat hepatocytes. Husson A, et al. **FEBS Lett** 1996 Oct 7;394(3):353–5

vesl, a gene encoding VASP/Ena family related protein, is upregulated during seizure, long-term potentiation and synaptogenesis. Kato A, et al. **FEBS Lett** 1997 Jul 21; 412(1):183–9

Transcriptional regulation of the Ras-related protein TC21/R-Ras2 in endothelial cells. Kozian DH, et al. **FEBS Lett** 1997 Sep 8;414(2):239–42

Inverse gene expression of prostacyclin and thromboxane synthases in resident and activated peritoneal macrophages. Kuwamoto S, et al. **FEBS Lett** 1997 Jun 9;409(2):242–6

The MHC-encoded TAP1/LMP2 bidirectional promoter is down-regulated in highly oncogenic adenovirus type 12 transformed cells. Proffitt JA, et al. **FEBS Lett** 1997 Jan 3;400(2):141–4

The liver-specific promoter of the human insulin-like growth factor-II gene contains two negative regulatory elements. Rodenburg RJ, et al. **FEBS Lett** 1996 Sep 23;394(1):25–30

Complementation of a yeast delta pkc1 mutant by the Arabidopsis proteinANT. Vergani P, et al. **FEBS Lett** 1997 Jan 3;400(2):243–6

IL-10 induces DNA binding activity of three STAT proteins (Stat1, Stat3, and Stat5) and their distinct combinatorial assembly in the promoters of selected genes. Wehinger J, et al. **FEBS Lett** 1996 Oct 7;394(3):365–70

Does selective gene activation direct evolution? Wright BE. **FEBS Lett** 1997 Jan 27;402(1):4–8 (42 ref.)

Negative regulation of the alpha-foetoprotein gene in fibroblasts: identification and characterization of cis and trans elements. Henriette MF, et al. **Folia Biol (Praha)** 1997; 43(1):5–13

Down-regulation of mammalian mitochondrial RNAs during oxidative stress. Crawford DR, et al. **Free Radic Biol Med** 1997;22(3):551–9

Increased transcription of the astrocyte gene GFAP during middle-age is attenuated by food restriction: implications for the role of oxidative stress. Morgan TE, et al. **Free Radic Biol Med** 1997;23(3):524–8

Gene expression and regulation of plasminogen activator inhibitor type I in hepatic stellate cells of rat liver. Knittel T, et al. **Gastroenterology** 1996 Sep;111(3):745–54

Src activation in malignant and premalignant epithelia of Barrett's esophagus. Kumble S, et al. **Gastroenterology** 1997 Feb;112(2):348–56

Action of different ecdysteroids on the regulation of mRNAs for the ecdysone receptor, MHR3, dopa decarboxylase, and a larval cuticle protein in the larval epidermis of the tobacco hornworm, Manduca sexta. Hiruma K, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):84–97

Analysis of the promoter and transcription start sites of the human thrombospondin 2 gene (THBS2). Adolph KW, et al. **Gene** 1997 Jul 1;193(1):5–11

High-level regulated expression of the human G6PD gene in transgenic mice. Corcoran CM, et al. **Gene** 1996 Sep 16;173(2):241–6

A promoter ISRE and dual 5' YY1 motifs control IFN-gamma induction of the IRG-47 G-protein gene. Gilly M, et al. **Gene** 1996 Nov 14;179(2):237–44

Efficient gene activation system on mammalian cell chromosomes using recombinant adenovirus producing Cre recombinase. Kanegae Y, et al. **Gene** 1996 Nov 28; 181(1-2):207–12

Tissue-specific expression of the K-ras allele from the A/J parent in (A/J x TSG-p53) F1 mice. Matzinger SA, et al. **Gene** 1997 Apr 1;188(2):261–9

Structure and regulation of the porcine skeletal alpha-actin-encoding gene. Reecy JM, et al. **Gene** 1996 Nov 21;180(1-2):23–8

Expression, regulation and polymorphism of the mxi1 genes. Shimizu E, et al. **Gene** 1996 Oct 17;176(1-2):45–8

Cloning of the human twist gene: its expression is retained in adult mesodermally-derived tissues. Wang SM, et al. **Gene** 1997 Mar 10;187(1):83–92

Increased production of peptide deformylase eliminates retention of formylmethionine in bovine somatotropin overproduced in Escherichia coli. Warren WC, et al. **Gene** 1996 Oct 3;174(2):235–8

Independence and interdependence of the three human aldolase A promoters in transgenic mice. Moch C, et al. **Gene Expr** 1996;6(1):1–14

Characterization of the nonmuscle myosin heavy chain IIB promoter: regulation by E2F. Weir L, et al. **Gene Expr** 1996;6(1):45–57

Positive and negative regulation of gene expression in eukaryotic cells with an inducible transcriptional regulator. Wang Y, et al. **Gene Ther** 1997 May;4(5):432–41

Transcriptional regulation of a Purkinje cell-specific gene through a functional interaction between ROR alpha and RAR. Matsui T. **Genes Cells** 1997 Apr;2(4):263–72

Upstream and downstream of erythroid transcription factor GATA-1. Yamamoto M, et al. **Genes Cells** 1997 Feb; 2(2):107–15 (49 ref.)

Oligodendrocyte precursor differentiation is perturbed in the absence of the cyclin-dependent kinase inhibitor p27Kip1. Casaccia-Bonnefil P, et al. **Genes Dev** 1997 Sep 15; 11(18):2335–46

Assembly of the isomerized TFIIA--TFIID--TATA ternary complex is necessary and sufficient for gene activation. Chi T, et al. **Genes Dev** 1996 Oct 15;10(20):2540–50

pRB and p107/p130 are required for the regulated expression of different sets of E2F responsive genes. Hurford RK Jr, et al. **Genes Dev** 1997 Jun 1;11(11):1447–63

Expression of Bcl-xL and loss of p53 can cooperate to overcome a cell cycle checkpoint induced by mitotic spindle damage. Minn AJ, et al. **Genes Dev** 1996 Oct 15; 10(20):2621–31

The phantom ligand effect: allosteric control of transcription by the retinoid X receptor. Schulman IG, et al. **Genes Dev** 1997 Feb 1;11(3):299–308

Stoichiometric and steric principles governing repression by nuclear hormone receptors. Zamir I, et al. **Genes Dev** 1997 Apr 1;11(7):835–46

Molecular basis of the pleiotropic phenotype of mice carrying the hypervariable yellow (Ahvy) mutation at the agouti locus. Argeson AC, et al. **Genetics** 1996 Feb;142(2):557–67

A dominant mutation in the Chlamydomonas reinhardtii nuclear gene SIM30 suppresses translational defects caused by initiation codon mutations in chloroplast genes. Chen X, et al. **Genetics** 1997 Apr;145(4):935–43

Characterization of functional domains of the su(Hw) protein that mediate the silencing effect of mod(mdg4) mutations. Gdula DA, et al. **Genetics** 1997 Jan;145(1):153–61

Interaction between mutations in the suppressor of Hairy wing and modifier of mdg4 genes of Drosophila melanogaster affecting the phenotype of gypsy-induced mutations. Georgiev P, et al. **Genetics** 1996 Feb; 142(2):425–36

Cytoplasmic dynein function is essential in Drosophila melanogaster. Gepner J, et al. **Genetics** 1996 Mar; 142(3):865–78

The Drosophila engrailed and invected genes: partners in regulation, expression and function. Gustavson E, et al. **Genetics** 1996 Mar;142(3):893–906

Competition between different variegating rearrangements for limited heterochromatic factors in Drosophila melanogaster. Lloyd VK, et al. **Genetics** 1997 Apr; 145(4):945–59

Genes regulating the remote wing margin enhancer in the Drosophila cut locus. Morcillo P, et al. **Genetics** 1996 Nov; 144(3):1143–54

Identification of immune system and response genes, and novel mutations causing melanotic tumor formation in Drosophila melanogaster. Rodriguez A, et al. **Genetics** 1996 Jun;143(2):929–40

Copy number and orientation determine the susceptibility of a gene to silencing by nearby heterochromatin in Drosophila. Sabl JF, et al. **Genetics** 1996 Feb;142(2):447–58

Both loss-of-function and gain-of-function mutations in snf define a role for snRNP proteins in regulating Sex-lethal pre-mRNA splicing in Drosophila development. Salz HK, et al. **Genetics** 1996 Sep;144(1):95–108

Repression of hybrid dysgenesis in Drosophila melanogaster by heat-shock-inducible sense and antisense P-element constructs. Simmons MJ, et al. **Genetics** 1996 Dec; 144(4):1529–44

Molecular dissection of a major gene effect on a quantitative trait: the level of alcohol dehydrogenase expression in Drosophila melanogaster. Stam LF, et al. **Genetics** 1996 Dec;144(4):1559–64

A novel RNA species from the turtle mitochondrial genome: induction and regulation of transcription and processing under anoxic and freezing stresses. Cai Q, et al. **Genome** 1997 Aug;40(4):534–43

The human transcriptional adaptor genes TADA2L and GCN5L2 colocalize to chromosome 17q12–q21 and display a similar tissue expression pattern. Carter KC, et al. **Genomics** 1997 Mar 15;40(3):497–500

The human hepatocyte nuclear factor 3/fork head gene FKHL13: genomic structure and pattern of expression. Murphy DB, et al. **Genomics** 1997 Mar 15;40(3):462–9

Partial structure, chromosome localization, and expression of the mouse Icln gene. Wickman K, et al. **Genomics** 1997 Mar 15;40(3):402–8

Regulation of fibrinogen biosynthesis by cytokines, consequences on the vascular risk. Vasse M, et al. **Haemostasis** 1996 Oct;26 Suppl 4:331–9 (29 ref.)

The biochemistry of transcription and gene regulation. Tjian R. **Harvey Lect** 1994–95;90:19–39 (64 ref.)

Suppression or overexpression of genes encoding myeloid growth factors or their receptors. Metcalf D. **Hematol Cell Ther** 1997 Apr;39(2):98–101 (26 ref.)

C-kit mutations and mast cell disorders. A model of activating mutations of growth factor receptors. Pignon JM. **Hematol Cell Ther** 1997 Apr;39(2):114–6 (14 ref.)

C1Q synthesis by tissue mononuclear phagocytes from normal and from damaged rat liver: up-regulation by dexamethasone, down-regulation by interferon gamma, and lipopolysaccharide. Armbrust T, et al. **Hepatology** 1997 Jul; 26(1):98–106

Induction of early-immediate genes by tumor necrosis factor alpha contribute to liver repair following chemical-induced hepatotoxicity. Bruccoleri A, et al. **Hepatology** 1997 Jan; 25(1):133–41

Co-expression and regulation of Met and Ron proto-oncogenes in human hepatocellular carcinoma tissues and cell lines. Chen Q, et al. **Hepatology** 1997 Jul; 26(1):59–66

Inactivation of p16INK4 in hepatocellular carcinoma. Hui AM, et al. **Hepatology** 1996 Sep;24(3):575–9

Up-regulation of type I procollagen C-proteinase enhancer protein messenger RNA in rats with CCl4-induced liver fibrosis. Ogata I, et al. **Hepatology** 1997 Sep;26(3):611–7

Role of the beta3-adrenoceptor in the control of leptin expression. Giacobino JP. **Horm Metab Res** 1996 Dec; 28(12):633–7 (58 ref.)

Galanin gene expression in hypothalamic GnRH-containing neurons of the rat: a model for autocrine regulation. Rossmanith WG, et al. **Horm Metab Res** 1996 Jun; 28(6):257–66 (64 ref.)

Regulation of ob gene expression in rodents and humans. Saladin R, et al. **Horm Metab Res** 1996 Dec;28(12):638–41 (41 ref.)

Central nervous system delivery of recombinant ciliary neurotrophic factor by polymer encapsulated differentiated C2C12 myoblasts. Déglon N, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2135–46

Evidence for the systemic delivery of a transgene product from salivary glands. Kagami H, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2177–84

Systemic hematological effects of granulocyte colony-stimulating factor produced by irradiated gene-transfected fibroblasts. Rosenthal FM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2147–56

Modulation of the specificity and activity of a cellular promoter in an adenoviral vector. Shi Q, et al. **Hum Gene Ther** 1997 Mar 1;8(4):403–10

Optimization of plasmid vectors for high-level expression in lung epithelial cells. Yew NS, et al. **Hum Gene Ther** 1997 Mar 20;8(5):575–84

Expression of the ceruloplasmin gene in the human retina and brain: implications for a pathogenic model in aceruloplasminemia. Klomp LW, et al. **Hum Mol Genet** 1996 Dec;5(12):1989–96

p53 activates Fanconi anemia group C gene expression. Liebetrau W, et al. **Hum Mol Genet** 1997 Feb;6(2):277–83

Inhibition of fibrillin 1 expression using U1 snRNA as a vehicle for the presentation of antisense targeting sequence. Montgomery RA, et al. **Hum Mol Genet** 1997 Apr; 6(4):519–25

Testis-specific protein, Y-encoded (TSPY) expression in testicular tissues. Schnieders F, et al. **Hum Mol Genet** 1996 Nov;5(11):1801–7

Co-ordinate regulation of the cystic fibrosis and multidrug resistance genes in cystic fibrosis knockout mice. Trezise AE, et al. **Hum Mol Genet** 1997 Apr;6(4):527–37

Regulation of pituitary gonadotrophin gene expression. Mercer JE, et al. **Hum Reprod Update** 1995 Jul;1(4):363–84 (186 ref.)

Central overexpression of the TRH precursor gene induces hypertension in rats: antisense reversal. García SI, et al. **Hypertension** 1997 Sep;30(3 Pt 2):759–66

Role of angiotensin-converting enzyme, adrenergic receptors, and blood pressure in cardiac gene expression of spontaneously hypertensive rats during development. Ohta K, et al. **Hypertension** 1996 Oct;28(4):627–34

Regulation of vascular type 1 angiotensin receptors by cytokines. Sasamura H, et al. **Hypertension** 1997 Jul;30(1 Pt 1):35–41

Distinct mechanisms of modulation of angiotensin II type I receptor gene expression in heart and aorta. Wang DH, et al. **Hypertension** 1997 May;29(5):1104–8

Induction of growth hormone receptor and insulin-like growth factor-I mRNA in aorta and caval vein during hemodynamic challenge. Wickman A, et al. **Hypertension** 1997 Jan;29(1 Pt 1):123–30

Jak3 is associated with CD40 and is critical for CD40 induction of gene expression in B cells. Hanissian SH, et al. **Immunity** 1997 Apr;6(4):379–87

In vivo occupancy of the kappa light chain enhancers in primary pro- and pre-B cells: a model for kappa locus activation. Shaffer AL, et al. **Immunity** 1997 Feb; 6(2):131–43

EBF and E47 collaborate to induce expression of the endogenous immunoglobulin surrogate light chain genes. Sigvardsson M, et al. **Immunity** 1997 Jul;7(1):25–36

The regulation mechanism of HLA class II gene expression at the level of mRNA stability. Del Pozzo G, et al. **Immunogenetics** 1996;44(6):453–8

Modulation of mRNA levels in the presence of thymocytes and genome mapping for a set of genes expressed in mouse thymic epithelial cells. Rocha D, et al. **Immunogenetics** 1997;46(2):142–51

Expression of HLA class I molecules assembled with structural variants of human beta2-microglobulin. Trymbulak WP, et al. **Immunogenetics** 1997;46(5):418–26

How is expression of the interleukin-5 gene regulated? Karlen S, et al. **Immunol Cell Biol** 1996 Apr;74(2):218–23 (57 ref.)

Down-regulation of human tumor necrosis factor-beta gene expression by cells with suppressive activity. Aframian D, et al. **Immunol Lett** 1996 Dec;54(2–3):171–6

Regulation of macrophage gene expression following invasion by Mycobacterium tuberculosis. Ragno S, et al. **Immunol Lett** 1997 Jun 1;57(1–3):143–6

Activation of cytokine genes during primary and anamnestic immune response to inactivated c. albicans. Rosati E, et al. **Immunology** 1996 Sep;89(1):142–51

Differential expression of the vitellogenin gene in the spruce terminal weevil feeding on resistant versus susceptible host trees. Leal I, et al. **Insect Biochem Mol Biol** 1997 Jun; 27(6):569–75

Allelic variation of the polyubiquitin gene in the tobacco hawkmoth, Manduca sexta, and its regulation by heat shock and programmed cell death. Myer A, et al. **Insect Biochem Mol Biol** 1996 Dec;26(10):1037–46

Regulation of the ecdysone receptor, USP, E75 and MHR3 mRNAs by 20-hydroxyecdysone in the GV1 cell line of the tobacco hornworm, Manduca sexta. Lan Q, et al. **Insect Mol Biol** 1997 Feb;6(1):3–10

Juvenile hormone controls early trypsin gene transcription in the midgut of Aedes aegypti. Noriega FG, et al. **Insect Mol Biol** 1997 Feb;6(1):63–6

Gene regulation after Fc epsilon RI stimulation in the murine mast cell line CPII. Baumruker T, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):39–41

Dissection of human IL-5 promoter--essential role of CLEO element in human IL-5 gene transcription. Mori A, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):272–4

A 125 bp region of the Ig VH1 promoter is sufficient to confer lymphocyte-specific expression in transgenic mice. Avitahl N, et al. **Int Immunol** 1996 Sep;8(9):1359–66

Human thymic B cells largely overexpress the VH4 Ig gene family. A possible role in the control of tolerance in situ? Tonnelle C, et al. **Int Immunol** 1997 Mar;9(3):407–14

Insulin-sensitive glucose transporter transcript levels in calf muscles assessed with a bovine GLUT4 cDNA fragment. Hocquette JF, et al. **Int J Biochem Cell Biol** 1996 Jul; 28(7):795–806

The Oct-2 transcription factor. Latchman DS. **Int J Biochem Cell Biol** 1996 Oct;28(10):1081–3 (10 ref.)

The role of chromatin in transcriptional regulation. Li Q, et al. **Int J Biochem Cell Biol** 1997 May;29(5):731–42 (126 ref.)

Neuronal laminins and their cellular receptors. Powell SK, et al. **Int J Biochem Cell Biol** 1997 Mar;29(3):401–14 (133 ref.)

Early-response gene signalling is induced by angiogenic oligosaccharides of hyaluronan in endothelial cells. Inhibition by non-angiogenic, high-molecular-weight hyaluronan. Deed R, et al. **Int J Cancer** 1997 Apr 10; 71(2):251–6

What role might lampbrush chromosomes play in maternal gene expression? Angelier N, et al. **Int J Dev Biol** 1996 Aug;40(4):645–52 (40 ref.)

Lack of correlation between c-myc expression and programmed or experimentally-induced cell death during chick limb development. Ros MA, et al. **Int J Dev Biol** 1995 Dec;39(6):1021–6

Immunohistochemical localization of laminin, fibronectin and collagen type IV in the nerve fiber layer of the olfactory bulb. Doucette R. **Int J Dev Neurosci** 1996 Nov; 14(7–8):945–59

Regulation of c-Fos mRNA and fos protein expression in olfactory bulbs from unilaterally odor-deprived adult mice. Jin BK, et al. **Int J Dev Neurosci** 1996 Nov;14(7–8):971–82

Induction of c-fos mRNA by lead in PC 12 cells. Kim K, et al. **Int J Dev Neurosci** 1997 Apr;15(2):175–82

Early locus coeruleus lesions increase the density of beta-adrenergic receptors in the main olfactory bulb of rats. Woo CC, et al. **Int J Dev Neurosci** 1996 Nov; 14(7–8):913–9

Modulation of apolipoprotein gene expression in fatty liver of obese rats: enhanced APOA-IV, but no APOB expression by a high sucrose diet. Inui Y, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):231–8

Differential induction of GRO alpha gene expression in human corneal epithelial cells and keratocytes exposed to proinflammatory cytokines. Cubitt CL, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1149–58

Transforming growth factor-beta 1 and -beta 2 positively regulate TGF-beta 1 mRNA expression in trabecular cells. Li J, et al. **Invest Ophthalmol Vis Sci** 1996 Dec; 37(13):2778–82

Interleukin-10 gene expression induced by HIV-1 Tat and Rev in the cells of HIV-1 infected individuals. Blazevic V, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):208–14

Induction of cytokine expression in leukocytes in acute myocardial infarction. Marx N, et al. **J Am Coll Cardiol** 1997 Jul;30(1):165–70

Transcriptional regulation of aquaporin-2 water channel gene by cAMP. Matsumura Y, et al. **J Am Soc Nephrol** 1997 Jun;8(6):861–7

Changes in muscle fibre type, muscle mass and IGF-I gene expression in rabbit skeletal muscle subjected to stretch. Yang H, et al. **J Anat** 1997 May;190 (Pt 4):613–22

Transmethylation reaction is essential for Sarcophaga lectin gene activation. Sugiyama H, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):354–9

Activation of the erythropoietin promoter by a point mutation from GATA to TATA in the -30 region. Tsuchiya T, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):193–6

Regulation of troponin T gene expression in chicken fast skeletal muscle: involvement of an M-CAT-like element distinct from the standard M-CAT. Watanabe T, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):212–8

Molecular sites of regulation of expression of the rat cationic amino acid transporter gene. Aulak KS, et al. **J Biol Chem** 1996 Nov 22;271(47):29799–806

Allosteric mechanism of induction of CytR-regulated gene expression. Cytr repressor-cytidine interaction. Barbier CS, et al. **J Biol Chem** 1997 Jul 4;272(27):16962–71

Adenovirus E1A inhibits cardiac myocyte-specific gene expression through its amino terminus. Bishopric NH, et al. **J Biol Chem** 1997 Aug 15;272(33):20584–94

Multiple signaling pathways control the activation of the CEF-4/9E3 cytokine gene by pp60v-src. Bojović B, et al. **J Biol Chem** 1996 Sep 13;271(37):22528–37

Dyspedic mouse skeletal muscle expresses major elements of the triadic junction but lacks detectable ryanodine receptor protein and function. Buck ED, et al. **J Biol Chem** 1997 Mar 14;272(11):7360–7

Identification of cis- and trans-active factors regulating human islet amyloid polypeptide gene expression in pancreatic beta-cells. Carty MD, et al. **J Biol Chem** 1997 May 2;272(18):11986–93

Physical and functional interactions between the transcriptional inhibitors Id3 and ITF-2b. Evidence toward a novel mechanism regulating muscle-specific gene expression. Chen B, et al. **J Biol Chem** 1997 Jan 24; 272(4):2459–63

Sp1-mediated transcriptional activation from the dominant promoter of the rat alpha1B adrenergic receptor gene in DDT1MF-2 cells. Chen J, et al. **J Biol Chem** 1997 Sep 12;272(37):23144–50

Regulation of the ERBB-2 promoter by RBPJkappa and NOTCH. Chen Y, et al. **J Biol Chem** 1997 May 30; 272(22):14110–4

Tissue-specific expression of unique mRNAs that encode proglucagon-derived peptides or exendin 4 in the lizard. Chen YE, et al. **J Biol Chem** 1997 Feb 14;272(7):4108–15

The role of 3' poly(A) tail metabolism in tumor necrosis factor-alpha regulation. Crawford EK, et al. **J Biol Chem** 1997 Aug 22;272(34):21120–7

Oxidative stress activates metal-responsive transcription factor-1 binding activity. Occupancy in vivo of metal response elements in the metallothionein-I gene promoter. Dalton TP, et al. **J Biol Chem** 1996 Oct 18;271(42):26233–41

The organization, promoter analysis, and expression of the

human PPARgamma gene. Fajas L, et al. **J Biol Chem** 1997 Jul 25;272(30):18779–89

Regions flanking exon 1 regulate constitutive expression of the human antithrombin gene. Fernandez–Rachubinski FA, et al. **J Biol Chem** 1996 Nov 15;271(46):29502–12

Differential regulation of insulin–like growth factor–I (IGF–I) receptor gene expression by IGF–I and basic fibroblastic growth factor. Hernández–Sánchez C, et al. **J Biol Chem** 1997 Feb 21;272(8):4663–70

Translational regulation of yeast GCN4. A window on factors that control initiator–trna binding to the ribosome. Hinnebusch AG. **J Biol Chem** 1997 Aug 29;272(35):21661–4 (61 ref.)

Functional antagonism between CCAAT/Enhancer binding protein–alpha and peroxisome proliferator–activated receptor–gamma on the leptin promoter. Hollenberg AN, et al. **J Biol Chem** 1997 Feb 21;272(8):5283–90

Clustering and enhanced activity of an inwardly rectifying potassium channel, Kir4.1, by an anchoring protein, PSD–95/SAP90. Horio Y, et al. **J Biol Chem** 1997 May 16;272(20):12885–8

Regulation of obese (ob) mRNA and plasma leptin levels in rhesus monkeys. Effects of insulin, body weight, and non–insulin–dependent diabetes mellitus. Hotta K, et al. **J Biol Chem** 1996 Oct 11;271(41):25327–31

Steroidogenic factor–1 is an essential transcriptional activator for gonad–specific expression of promoter I of the rat prolactin receptor gene. Hu Z, et al. **J Biol Chem** 1997 May 30;272(22):14263–71

Organization and expression of the mouse MTH1 gene for preventing transversion mutation. Igarashi H, et al. **J Biol Chem** 1997 Feb 7;272(6):3766–72

Cytoskeleton reorganization induces the urokinase–type plasminogen activator gene via the Ras/extracellular signal–regulated kinase (ERK) signaling pathway. Irigoyen JP, et al. **J Biol Chem** 1997 Jan 17;272(3):1904–9

Activation transcription factor 1 involvement in the regulation of murine H–2Dd expression. Ishiguro N, et al. **J Biol Chem** 1997 Jun 20;272(25):15993–6001

Carbohydrate regulation of hepatic gene expression. Evidence against a role for the upstream stimulatory factor. Kaytor EN, et al. **J Biol Chem** 1997 Mar 14;272(11):7525–31

The polymyositis–scleroderma autoantigen interacts with the helix–loop–helix proteins E12 and E47. Kho CJ, et al. **J Biol Chem** 1997 May 16;272(20):13426–31

Regulation of type I collagen mRNA by amino acid deprivation in human lung fibroblasts. Krupsky M, et al. **J Biol Chem** 1997 May 23;272(21):13864–8

A 3' cis–acting element is involved in tumor necrosis factor–alpha gene expression in astrocytes. Kwon J, et al. **J Biol Chem** 1996 Sep 13;271(37):22383–90

Syndecan–1 expression is down–regulated during myoblast terminal differentiation. Modulation by growth factors and retinoic acid. Larraín J, et al. **J Biol Chem** 1997 Jul 18; 272(29):18418–24

Repression of platelet–derived growth factor A–chain gene transcription by an upstream silencer element. Participation by sequence–specific single–stranded DNA–binding proteins. Liu B, et al. **J Biol Chem** 1996 Oct 18; 271(42):26281–90

Collaborative roles for c–Jun N–terminal kinase, c–Jun, serum response factor, and Sp1 in calcium–regulated myocardial gene expression. McDonough PM, et al. **J Biol Chem** 1997 Sep 19;272(38):24046–53

Tissue targeting of angiotensin peptides. Methot D, et al. **J Biol Chem** 1997 May 16;272(20):12994–9

The rat glucocorticoid receptor mutant K461A differentiates between two different mechanisms of transrepression. Meyer T, et al. **J Biol Chem** 1997 Aug 22;272(34):21090–5

Expression of the rat m4 muscarinic acetylcholine receptor gene is regulated by the neuron–restrictive silencer element/repressor element 1. Mieda M, et al. **J Biol Chem** 1997 Feb 28;272(9):5854–60

Differential regulation of c–Myb–induced transcription activation by a phosphorylation site in the negative regulatory domain. Miglarese MR, et al. **J Biol Chem** 1996 Sep 13;271(37):22697–705

Transcriptional regulation of the mouse presenilin–1 gene. Mitsuda N, et al. **J Biol Chem** 1997 Sep 19;272(38):23489–97

Dependence of activated Galpha12–induced G1 to S phase cell cycle progression on both Ras/mitogen–activated protein kinase and Ras/Rac1/Jun N–terminal kinase cascades in NIH3T3 fibroblasts. Mitsui H, et al. **J Biol Chem** 1997 Feb 21;272(8):4904–10

Hypoxia induces c–fos transcription via a mitogen–activated protein kinase–dependent pathway. Müller JM, et al. **J Biol Chem** 1997 Sep 12;272(37):23435–9

Butyrate activates the WAF1/Cip1 gene promoter through Sp1 sites in a p53–negative human colon cancer cell line. Nakano K, et al. **J Biol Chem** 1997 Aug 29; 272(35):22199–206

Control of the expression and activity of the Galpha–interacting protein (GAIP) in human intestinal cells. Ogier–Denis E, et al. **J Biol Chem** 1997 Sep 26; 272(39):24599–603

5'–flanking sequences in thyroid hormone response element half–sites determine the requirement of retinoid X receptor for receptor–mediated gene expression. Olson DP, et al. **J Biol Chem** 1997 Apr 11;272(15):9907–14

The chick alpha2(I) collagen gene contains two functional promoters, and its expression in chondrocytes is regulated at both transcriptional and post–transcriptional levels. Pallante KM, et al. **J Biol Chem** 1996 Oct 11; 271(41):25233–9

Mutual transcriptional interference between RelA and androgen receptor. Palvimo JJ, et al. **J Biol Chem** 1996 Sep 27;271(39):24151–6

Role of proximal promoter elements in regulation of renin gene transcription. Petrovic N, et al. **J Biol Chem** 1996 Sep 13;271(37):22499–505

Activation of hypoxia–inducible factor–1; definition of regulatory domains within the alpha subunit. Pugh CW, et al. **J Biol Chem** 1997 Apr 25;272(17):11205–14

Elastase release of basic fibroblast growth factor in pulmonary fibroblast cultures results in down–regulation of elastin gene transcription. A role for basic fibroblast growth factor in regulating lung repair. Rich CB, et al. **J Biol Chem** 1996 Sep 20;271(38):23043–8

Integration of tetracycline regulation into a cell–specific transcriptional enhancer. Rose SD, et al. **J Biol Chem** 1997 Feb 21;272(8):4735–9

Regulation of major histocompatibility complex class I gene expression in thyroid cells. Role of the cAMP response element–like sequence. Saji M, et al. **J Biol Chem** 1997 Aug 8;272(32):20096–107

Negative regulation of the gene for the preprothyrotropin–releasing hormone from the mouse by thyroid hormone requires additional factors in conjunction with thyroid hormone receptors. Satoh T, et al. **J Biol Chem** 1996 Nov 1;271(44):27919–26

Spermatid–specific overexpression of the TATA–binding protein gene involves recruitment of two potent testis–specific promoters. Schmidt EE, et al. **J Biol Chem** 1997 Feb 21;272(8):5326–34

Suppressor and activator functions mediated by a repeated heptad sequence in the liver fatty acid–binding protein gene (Fabpl). Effects on renal, small intestinal, and colonic epithelial cell gene expression in transgenic mice. Simon TC, et al. **J Biol Chem** 1997 Apr 18;272(16):10652–63

Restoration of cell–to–cell communication in thyroid cell lines by transfection with and stable expression of the connexin–32 gene. Impact on cell proliferation and tissue–specific gene expression. Statuto M, et al. **J Biol Chem** 1997 Sep 26;272(39):24710–6

Identification of transcription factor binding sites important in the regulation of the human interleukin–5 gene. Stranick KS, et al. **J Biol Chem** 1997 Jun 27;272(26):16453–65

A novel proximal element mediates the regulation of mouse Ren–1C promoter by retinoblastoma protein in cultured cells. Tamura K, et al. **J Biol Chem** 1997 Jul 4; 272(27):16845–51

Regulation of expression of the human monocyte chemotactic protein–1 receptor (hCCR2) by cytokines. Tangirala RK, et al. **J Biol Chem** 1997 Mar 21;272(12):8050–6

Differential effects of protein kinase C, Ras, and Raf–1 kinase on the induction of the cardiac B–type natriuretic peptide gene through a critical promoter–proximal M–CAT element. Thuerauf DJ, et al. **J Biol Chem** 1997 Mar 14; 272(11):7464–72

Myogenesis and MyoD down–regulate Sp1. A mechanism for the repression of GLUT1 during muscle cell differentiation. Viñals F, et al. **J Biol Chem** 1997 May 16; 272(20):12913–21

Transcriptional regulation of apolipoprotein A–I gene expression by the nuclear receptor RORalpha. Vu–Dac N, et al. **J Biol Chem** 1997 Sep 5;272(36):22401–4

Transcription factor AP–2 controls transcription of the human transforming growth factor–alpha gene. Wang D, et al. **J Biol Chem** 1997 May 30;272(22):14244–50

Complex regulation of the BRCA1 gene. Xu CF, et al. **J Biol Chem** 1997 Aug 22;272(34):20994–7

Molecular cloning and cold–inducible gene expression of ferritin H subunit isoforms in rainbow trout cells. Yamashita M, et al. **J Biol Chem** 1996 Oct 25; 271(43):26908–13

Regulation of CCAAT/enhancer–binding protein family members by stimulation of glutamate receptors in cultured rat cortical astrocytes. Yano S, et al. **J Biol Chem** 1996 Sep 20;271(38):23520–7

Lipopolysaccharide induction of the tumor necrosis factor–alpha promoter in human monocytic cells. Regulation by Egr–1, c–Jun, and NF–kappaB transcription factors. Yao J, et al. **J Biol Chem** 1997 Jul 11; 272(28):17795–801

Cell–substrate and cell–cell interactions differently regulate cytoskeletal and extracellular matrix protein gene expression. Nagahara S, et al. **J Biomed Mater Res** 1996 Dec;32(4):677–86

Regulation of NFIL–6 and IL–6 expression by basic fibroblast growth factor in osteoblasts. Hurley MM, et al. **J Bone Miner Res** 1996 Jun;11(6):760–7

Translational regulation of parathyroid hormone gene expression and RNA: protein interactions. Vadher S, et al. **J Bone Miner Res** 1996 Jun;11(6):746–53

Localization of silencer and enhancer elements in the human type X collagen gene. Beier F, et al. **J Cell Biochem** 1997 Aug 1;66(2):210–8

GA–binding protein is involved in altered expression of ribosomal protein L32 gene. Curčić D, et al. **J Cell Biochem** 1997 Jun 1;65(3):287–307

Potent gene regulatory and antiproliferative activities of 20–methyl analogues of 1,25 dihydroxyvitamin D3. Danielsson C, et al. **J Cell Biochem** 1996 Nov 1; 63(2):199–206

Cloning, characterization, and expression of the transforming growth factor–beta type I receptor promoter in fetal rat bone cells. Ji C, et al. **J Cell Biochem** 1996 Dec 15; 63(4):478–90

Selenium–regulated translation control of heterologous gene expression: normal function of selenocysteine–substituted gene products. Leonard JL, et al. **J Cell Biochem** 1996 Jun 1;61(3):410–9

Regulation of c–fos is affected by electromagnetic fields. Rao S, et al. **J Cell Biochem** 1996 Dec 1;63(3):358–65

Aberrant expression and regulation of hepatic epidermal growth factor receptor in a c–myc transgenic mouse model. Woitach JT, et al. **J Cell Biochem** 1997 Mar 15;64(4):651–60

Vascular bed–specific expression of an endothelial cell gene is programmed by the tissue microenvironment. Aird WC, et al. **J Cell Biol** 1997 Sep 8;138(5):1117–24

alpha–Tubulin limits its own synthesis: evidence for a mechanism involving translational repression. Gonzalez–Garay ML, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1525–34

Regulation of calreticulin gene expression by calcium. Waser M, et al. **J Cell Biol** 1997 Aug 11;138(3):547–57

c–Myc inactivation by mutant Max alters growth and morphology of NCI–H–630 colon cancer cells. Borrè A, et al. **J Cell Physiol** 1996 Oct;169(1):200–8

Differential regulation of keratinocyte growth factor and hepatocyte growth factor/scatter factor by different cytokines in human corneal and limbal fibroblasts. Li DQ, et al. **J Cell Physiol** 1997 Sep;172(3):361–72

Differential gene expression in SV40–mediated immortalization of human fibroblasts. Pardinas J, et al. **J Cell Physiol** 1997 Jun;171(3):325–35

Induction in human osteoblastic cells (SaOS2) of the early response genes fos, jun, and myc by the amino terminal fragment (ATF) of urokinase. Rabbani SA, et al. **J Cell Physiol** 1997 Aug;172(2):137–45

Coexpression of the mRNAs encoding retinol dehydrogenase isozymes and cellular retinol–binding protein. Zhai Y, et al. **J Cell Physiol** 1997 Oct;173(1):36–43

Regulation of the CYP1A1 promoter in transgenic mice: an exquisitely sensitive on–off system for cell specific gene regulation. Campbell SJ, et al. **J Cell Sci** 1996 Nov;109 (Pt 11):2619–25

Changing intestinal connective tissue interactions alters homeobox gene expression in epithelial cells. Duluc I, et al. **J Cell Sci** 1997 Jun;110 (Pt 11):1317–24

Down–regulation of actin genes precedes microfilament network disruption and actin cleavage during p53–mediated apoptosis. Guénal I, et al. **J Cell Sci** 1997 Feb;110 (Pt 4):489–95

Nuclear localization of DP and E2F transcription factors by heterodimeric partners and retinoblastoma protein family members. Magae J, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1717–26

Oncostatin M induces basic fibroblast growth factor expression in endothelial cells and promotes endothelial cell proliferation, migration and spindle morphology. Wijelath ES, et al. **J Cell Sci** 1997 Apr;110 (Pt 7):871–9

Antisense RNA inhibition of the putative vacuolar H(+)–ATPase proteolipid of Dictyostelium reduces intracellular Ca2+ transport and cell viability. Xie Y, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):489–97

Global ischemia induces immediate–early genes encoding zinc finger transcription factors. Honkaniemi J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):557–65

Gene expression induced by cerebral ischemia: an apoptotic perspective. MacManus JP, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):815–32 (191 ref.)

Transcriptional regulation of prostaglandin–H synthase–2 gene in human trophoblasts. Anteby EY, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2289–93

Immunolocalization and regulation of the chemokine RANTES in human endometrial and endometriosis tissues and cells. Hornung D, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1621–8

Glucocorticoids do not regulate the expression of proteolytic genes in skeletal muscle from Cushing's syndrome patients. Rallière C, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):3161–4

Expression of human chorionic gonadotropin (hCG)/luteinizing hormone receptors and regulation of the cyclooxygenase–1 gene by exogenous hCG in human fetal membranes. Toth P, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1283–8

Heat shock factor–1 protein in heat shock factor–1 gene–transfected human epidermoid A431 cells requires phosphorylation before inducing heat shock protein–70 production. Ding XZ, et al. **J Clin Invest** 1997 Jan 1; 99(1):136–43

Nitric oxide decreases stability of mRNAs encoding soluble guanylate cyclase subunits in rat pulmonary artery smooth muscle cells. Filippov G, et al. **J Clin Invest** 1997 Aug 15;100(4):942–8

Induction of tachykinin gene and peptide expression in guinea pig nodose primary afferent neurons by allergic airway inflammation. Fischer A, et al. **J Clin Invest** 1996 Nov 15;98(10):2284–91

EGF receptor activation stimulates endogenous gastrin gene expression in canine G cells and human gastric cell cultures. Ford MG, et al. **J Clin Invest** 1997 Jun 1;99(11):2762–71

Signals through gp130 upregulate bcl–x gene expression via STAT1–binding cis–element in cardiac myocytes. Fujio Y,

et al. **J Clin Invest** 1997 Jun 15;99(12):2898–905

Characterization of mutant myosins of Dictyostelium discoideum equivalent to human familial hypertrophic cardiomyopathy mutants. Molecular force level of mutant myosins may have a prognostic implication. Fujita H, et al. **J Clin Invest** 1997 Mar 1;99(5):1010–5

Retinoic acid inhibits the regulated expression of vascular cell adhesion molecule–1 by cultured dermal microvascular endothelial cells. Gille J, et al. **J Clin Invest** 1997 Feb 1; 99(3):492–500

Identification of a cis–acting regulatory element conferring inducibility of the atrial natriuretic factor gene in acute pressure overload. Harsdorf R, et al. **J Clin Invest** 1997 Sep 1;100(5):1294–304

Increased prebeta–high density lipoprotein, apolipoprotein AI, and phospholipid in mice expressing the human phospholipid transfer protein and human apolipoprotein AI transgenes. Jiang X, et al. **J Clin Invest** 1996 Nov 15; 98(10):2373–80

In the absence of the low density lipoprotein receptor, human apolipoprotein C1 overexpression in transgenic mice inhibits the hepatic uptake of very low density lipoproteins via a receptor–associated protein–sensitive pathway. Jong MC, et al. **J Clin Invest** 1996 Nov 15;98(10):2259–67

Interferon–gamma differentially regulates interleukin–12 and interleukin–10 production in leprosy. Libraty DH, et al. **J Clin Invest** 1997 Jan 15;99(2):336–41

Shear stress induction of the tissue factor gene. Lin MC, et al. **J Clin Invest** 1997 Feb 15;99(4):737–44

Glycation–dependent, reactive oxygen species–mediated suppression of the insulin gene promoter activity in HIT cells. Matsuoka T, et al. **J Clin Invest** 1997 Jan 1; 99(1):144–50

Differentiation of glucose toxicity from beta cell exhaustion during the evolution of defective insulin gene expression in the pancreatic islet cell line, HIT–T15. Moran A, et al. **J Clin Invest** 1997 Feb 1;99(3):534–9

Systemic hypertension induced by hepatic overexpression of human preproendothelin–1 in rats. Niranjan V, et al. **J Clin Invest** 1996 Nov 15;98(10):2364–72

Cloning and sequencing of the pancreatic islet neogenesis associated protein (INGAP) gene and its expression in islet neogenesis in hamsters. Rafaeloff R, et al. **J Clin Invest** 1997 May 1;99(9):2100–9

Active stage of autoimmune diabetes is associated with the expression of a novel cytokine, IGIF, which is located near Idd2. Rothe H, et al. **J Clin Invest** 1997 Feb 1;99(3):469–74

Vascular hypertrophy in experimental diabetes. Role of advanced glycation end products. Rumble JR, et al. **J Clin Invest** 1997 Mar 1;99(5):1016–27

Macrophage–mediated 15–lipoxygenase expression protects against atherosclerosis development. Shen J, et al. **J Clin Invest** 1996 Nov 15;98(10):2201–8

Isoform 1c of sterol regulatory element binding protein is less active than isoform 1a in livers of transgenic mice and in cultured cells. Shimano H, et al. **J Clin Invest** 1997 Mar 1;99(5):846–54

Differential expression of exons 1a and 1c in mRNAs for sterol regulatory element binding protein–1 in human and mouse organs and cultured cells. Shimomura I, et al. **J Clin Invest** 1997 Mar 1;99(5):838–45

Plasma lipoprotein(a) levels and expression of the apolipoprotein(a) gene are dependent on the nucleotide polymorphisms in its 5'–flanking region. Suzuki K, et al. **J Clin Invest** 1997 Mar 15;99(6):1361–6

Expression of the bumetanide–sensitive Na–K–Cl cotransporter BSC2 is differentially regulated by fluid mechanical and inflammatory cytokine stimuli in vascular endothelium. Topper JN, et al. **J Clin Invest** 1997 Jun 15; 99(12):2941–9

Expression of the Gs protein alpha–subunit disrupts the normal program of differentiation in cultured murine myogenic cells. Tsai CC, et al. **J Clin Invest** 1997 Jan 1; 99(1):67–76

Upregulation of aquaporin–2 water channel expression in chronic heart failure rat. Xu DL, et al. **J Clin Invest** 1997 Apr 1;99(7):1500–5

Alternative expression of platelet glycoprotein Ib(beta) mRNA from an adjacent 5' gene with an imperfect polyadenylation signal sequence. Zieger B, et al. **J Clin Invest** 1997 Feb 1;99(3):520–5

Increased expression of specific recognition molecules by retinal ganglion cells and by optic pathway glia accompanies the successful regeneration of retinal axons in adult zebrafish. Bernhardt RR, et al. **J Comp Neurol** 1996 Dec 9;376(2):253–64

Development of morphological changes and ileal glucagon gene expression in the small intestine of lambs infected with Trichostrongylus colubriformis. Roy EA, et al. **J Comp Pathol** 1996 Nov;115(4):441–53

IL–1 alpha and TNF–alpha expression in early periapical lesions of normal and immunodeficient mice. Fouad AF. **J Dent Res** 1997 Sep;76(9):1548–54

Expression of TGF–beta superfamily receptors in dental pulp. Toyono T, et al. **J Dent Res** 1997 Sep;76(9):1555–60

Regulation of keratinocyte growth factor gene expression in human skin fibroblasts. Tang A, et al. **J Dermatol Sci** 1996 Jan;11(1):41–50

Sclerotome–related helix–loop–helix type transcription factor (scleraxis) mRNA is expressed in osteoblasts and its level is enhanced by type–beta transforming growth factor. Liu Y, et al. **J Endocrinol** 1996 Dec;151(3):491–9

Differential mRNA display analysis of gene expression in Cryptosporidium parvum–infected HCT–8 cells. Abrahamsen MS, et al. **J Eukaryot Microbiol** 1996 Sep–Oct;43(5):80S–81S

Major histocompatibility complex (MHC) class I gene expression in single neurons of the central nervous system: differential regulation by interferon (IFN)–gamma and tumor necrosis factor (TNF)–alpha. Neumann H, et al. **J Exp Med** 1997 Jan 20;185(2):305–16

Distinct Ras effector pathways are involved in Fc epsilon R1 regulation of the transcriptional activity of Elk–1 and NFAT in mast cells. Turner H, et al. **J Exp Med** 1997 Jan 6;185(1):43–53

Differences in the target specificity of the transactivating factors MHBs(t) and HBx of hepatitis B virus. Mühlbauer E, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1033–9

Expression of messenger RNA for liver functions following 70% and 90% hepatectomy. Tygstrup N, et al. **J Hepatol** 1996 Jul;25(1):72–8

Neuro–regulation of interleukin–6 gene expression in the spontaneously hypertensive rat kidney. Nakamura A, et al. **J Hypertens** 1996 Jul;14(7):839–45

Sodium intake regulates renin gene expression differently in the hypothalamus and kidney of rats. Nishimura M, et al. **J Hypertens** 1997 May;15(5):509–16

Regulation of type 1 angiotensin II receptor and its subtype gene expression in kidney by sodium loading and angiotensin II infusion. Wang DH, et al. **J Hypertens** 1996 Dec;14(12):1409–15

Constitutive and inducible mechanisms for synthesis and release of cytokines in immune cell lines. Baumgartner RA, et al. **J Immunol** 1996 Nov 1;157(9):4087–93

Regulation of the RAG–1 promoter by the NF–Y transcription factor. Brown ST, et al. **J Immunol** 1997 Jun 1;158(11):5071–4

Abnormal T lymphocyte development induced by targeted overexpression of IkappaB alpha. Esslinger CW, et al. **J Immunol** 1997 Jun 1;158(11):5075–8

Induction of the CD11b gene during activation of the monocytic cell line U937 requires a novel nuclear factor MS–2. Farokhzad OC, et al. **J Immunol** 1996 Dec 15; 157(12):5597–605

Fas ligand expression is restricted to nonlymphoid thymic components in situ. French LE, et al. **J Immunol** 1997 Sep 1;159(5):2196–202

Identification of distinct domains in CD40 involved in B7–1 induction or growth inhibition. Goldstein MD, et al. **J Immunol** 1996 Oct 1;157(7):2837–43

CD99 (MIC2) regulates the LFA–1/ICAM–1–mediated adhesion of lymphocytes, and its gene encodes both positive and negative regulators of cellular adhesion. Hahn JH, et al. **J Immunol** 1997 Sep 1;159(5):2250–8

The mouse genes encoding the third pair of beta–type proteasome subunits regulated reciprocally by IFN–gamma: structural comparison, chromosomal localization, and analysis of the promoter. Hayashi M, et al. **J Immunol** 1997 Sep 15;159(6):2760–70

Heat shock protein 65 induced by gammadelta T cells prevents apoptosis of macrophages and contributes to host defense in mice infected with Toxoplasma gondii. Hisaeda H, et al. **J Immunol** 1997 Sep 1;159(5):2375–81

Expression of the murine CD21 gene is regulated by promoter and intronic sequences. Hu H, et al. **J Immunol** 1997 May 15;158(10):4758–68

A subclass of dendritic cells regulates the response of naive CD8 T cells by limiting their IL–2 production. Kronin V, et al. **J Immunol** 1996 Nov 1;157(9):3819–27

Dissociation of apoptosis and activation of IL–1beta–converting enzyme/Ced–3 proteases by ALG–2 and the truncated Alzheimer's gene ALG–3. Lacanà E, et al. **J Immunol** 1997 Jun 1;158(11):5129–35

IL–4–independent regulation of in vivo IL–9 expression. Monteyne P, et al. **J Immunol** 1997 Sep 15;159(6):2616–23

Introduction of exogenous class II trans–activator in MHC class II–deficient ABI fibroblasts results in incomplete rescue of MHC class II antigen expression. Peijnenburg A, et al. **J Immunol** 1997 Sep 15;159(6):2720–7

Dyad symmetry within the mouse 3' IgH regulatory region includes two virtually identical enhancers (C alpha3'E and hs3). Saleque S, et al. **J Immunol** 1997 May 15; 158(10):4780–7

Hyperoxia activates NF–kappaB and increases TNF–alpha and IFN–gamma gene expression in mouse pulmonary lymphocytes. Shea LM, et al. **J Immunol** 1996 Nov 1; 157(9):3902–8

Cloning of minimally divergent allelic forms of the natural killer (NK) receptor Ly–49C, differentially controlled by host genes in the MHC and NK gene complexes. Sundbäck J, et al. **J Immunol** 1996 Nov 1;157(9):3936–42

Multifocal defects in immune responses in RelB–deficient mice. Weih F, et al. **J Immunol** 1997 Jun 1;158(11):5211–8

Relevance of the tumor necrosis factor alpha (TNF alpha) –308 promoter polymorphism in TNF alpha gene regulation [see comments] Brinkman BM, et al. **J Inflamm** 1995–96;46(1):32–41. Comment in: J Inflamm 1995–96 ;46(1):iii–iv.

Regulation and function of the mitochondrial genome. Jeong–Yu S, et al. **J Inherit Metab Dis** 1996;19(4):443–51 (27 ref.)

Regulation of interferon–gamma gene expression. Young HA. **J Interferon Cytokine Res** 1996 Aug;16(8):563–8 (26 ref.)

Glutamic acid decarboxylase—gene to antigen to disease. Lernmark A. **J Intern Med** 1996 Nov;240(5):259–77 (85 ref.)

The epidermis: genes on – genes off. Eckert RL, et al. **J Invest Dermatol** 1997 Oct;109(4):501–9 (98 ref.)

Localization and regulation of expression of the FAR–17A gene in the hamster flank organs. Puy LA, et al. **J Invest Dermatol** 1996 Jul;107(1):44–50

Characterization of recombinant adeno–associated virus–2 as a vehicle for gene delivery and expression into vascular cells. Gnatenko D, et al. **J Investig Med** 1997 Feb; 45(2):87–98

Novel elements located at –504 to –399 bp of the promoter region regulated the expression of the human macrophage scavenger receptor gene in murine macrophages. Liao HS, et al. **J Lipid Res** 1997 Jul;38(7):1433–44

Expression of apolipoprotein[a] and plasminogen mRNAs in cynomolgus monkey liver and extrahepatic tissues. Ramharack R, et al. **J Lipid Res** 1996 Sep;37(9):2029–40

Completely uncoupled and perfectly coupled gene expression in repressible systems. Hlavacek WS, et al. **J Mol Biol** 1997 Feb 28;266(3):538–58

Altered mRNA abundance of calcium transport genes in cardiac myocytes induced by angiotensin II. Ju H, et al. **J Mol Cell Cardiol** 1996 May;28(5):1119–28

Alpha–myosin heavy chain gene regulation: delineation and characterization of the cardiac muscle–specific enhancer and muscle–specific promoter. Molkentin JD, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1211–25

Adenovirus–mediated overexpression of human transforming growth factor–beta 1 in rat cardiac fibroblasts, myocytes and smooth muscle cells. Villarreal FJ, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):735–42

Transgenic animal models: new avenues in cardiovascular physiology. Franz WM, et al. **J Mol Med** 1997 Feb; 75(2):115–29

Interferon regulatory factors: growth control and histone gene regulation—it's not just interferon anymore. Vaughan PS, et al. **J Mol Med** 1997 May;75(5):348–59 (128 ref.)

Regulation of VIP gene expression in general. Human lung cancer cells in particular. Davidson A, et al. **J Mol Neurosci** 1996 Summer;7(2):99–110 (77 ref.)

Regulation of stress–induced transcriptional changes in the hypothalamic neurosecretory neurons. Kovács KJ, et al. **J Mol Neurosci** 1996 Summer;7(2):125–33

Ca2+/calmodulin–dependent transcriptional activation of neuropeptide Y gene induced by membrane depolarization: determination of Ca(2+)– and cyclic AMP/phorbol 12–myristate 13–acetate–responsive elements. Higuchi H, et al. **J Neurochem** 1996 May;66(5):1802–9

Regulation of the manganese superoxide dismutase and inducible nitric oxide synthase gene in rat neuronal and glial cells. Kifle Y, et al. **J Neurochem** 1996 May; 66(5):2128–35

Demonstration of an E–box and its CNS–related binding factors for transcriptional regulation of the mouse type 1 inositol 1,4,5–trisphosphate receptor gene. Konishi Y, et al. **J Neurochem** 1997 Aug;69(2):476–84

Retinoic acid is a negative regulator of the neuropeptide Y/peptide YY Y1 receptor gene in SK–N–MC cells. Mannon PJ, et al. **J Neurochem** 1997 Jan;68(1):20–5

Gene expression and regulation of Aplysia californica prohormone convertases aPC1B and aPC2. Ouimet T, et al. **J Neurochem** 1997 Mar;68(3):1031–40

Concomitant up–regulation of proopiomelanocortin and dopamine D2–receptor gene expression in the pituitary intermediate lobe of the spontaneously hypertensive rat. Autelitano DJ, et al. **J Neuroendocrinol** 1997 Apr; 9(4):255–62

Post–transcriptional regulation of the gonadotropin–releasing hormone gene in GT1–7 cells. Gore AC, et al. **J Neuroendocrinol** 1997 Apr;9(4):271–7

Regulation of pituitary vasopressin V1b receptor mRNA during stress in the rat. Rabadan–Diehl C, et al. **J Neuroendocrinol** 1995 Dec;7(12):903–10

Induced upregulation of IL–1, IL–1RA and IL–1R type I gene expression by Schwann cells. Skundric DS, et al. **J Neuroimmunol** 1997 Apr;74(1–2):9–18

Expression of neuregulins and their putative receptors, ErbB2 and ErbB3, is induced during Wallerian degeneration. Carroll SL, et al. **J Neurosci** 1997 Mar 1;17(5):1642–59

Aggregated amyloid–beta protein induces cortical neuronal apoptosis and concomitant "apoptotic" pattern of gene induction. Estus S, et al. **J Neurosci** 1997 Oct 15; 17(20):7736–45

Action potential–dependent regulation of gene expression: temporal specificity in ca2+, cAMP–responsive element binding proteins, and mitogen–activated protein kinase signaling. Fields RD, et al. **J Neurosci** 1997 Oct 1; 17(19):7252–66

Transcription factor AP–2 regulates human apolipoprotein E gene expression in astrocytoma cells. García MA, et al. **J Neurosci** 1996 Dec 1;16(23):7550–6

Coexpression of two odorant–binding protein homologs in Drosophila: implications for olfactory coding. Hekmat–Scafe DS, et al. **J Neurosci** 1997 Mar 1; 17(5):1616–24

Ligand–gated ion channel subunit partnerships: GABAA receptor alpha6 subunit gene inactivation inhibits delta subunit expression. Jones A, et al. **J Neurosci** 1997 Feb 15;17(4):1350–62

Combinations of AMPA receptor subunit expression in individual cortical neurons correlate with expression of

specific calcium-binding proteins. Kondo M, et al. **J Neurosci** 1997 Mar 1;17(5):1570–81

Expression of zinc transporter gene, ZnT-1, is induced after transient forebrain ischemia in the gerbil. Tsuda M, et al. **J Neurosci** 1997 Sep 1;17(17):6678–84

Identification of a novel repressive element that contributes to neuron-specific gene expression. Weber JRM, et al. **J Neurosci** 1997 Oct 15;17(20):7583–93

Association of c-fos mRNA expression and excitotoxicity in primary cultures of mouse neocortical and cerebellar neurons. Griffiths R, et al. **J Neurosci Res** 1997 Jun 15; 48(6):533–42

Immediate early gene c-fos regulates the synthesis of phospholipids but not of gangliosides. Guido ME, et al. **J Neurosci Res** 1996 Jan 1;43(1):93–8

Attenuation and recovery of nerve growth factor receptor mRNA in dorsal root ganglion neurons following axotomy. Krekoski CA, et al. **J Neurosci Res** 1996 Jan 1;43(1):1–11

Regulation of cytokine gene expression in experimental autoimmune encephalomyelitis. Zitron IM, et al. **J Neurosci Res** 1996 Nov 15;46(4):438–44

Regulated expression of the diphtheria toxin A gene in human glioma cells using prokaryotic transcriptional control elements. Paulus W, et al. **J Neurosurg** 1997 Jul;87(1):89–95

Specific repression of the preproendothelin-1 gene in intracranial arteriovenous malformations. Rhoten RL, et al. **J Neurosurg** 1997 Jan;86(1):101–8

Control of synthesis and secretion of intestinal apolipoprotein A-IV by lipid. Kalogeris TJ, et al. **J Nutr** 1997 Mar; 127(3):537S–543S (87 ref.)

Heterogeneity of ICAM-1 expression, and cytokine regulation of ICAM-1 expression, in skin and oral keratinocytes. Li J, et al. **J Oral Pathol Med** 1996 Mar; 25(3):112–8

Down-regulation of bcl-2 expression is closely related to squamous differentiation and progesterone therapy in endometrial carcinomas. Saegusa M, et al. **J Pathol** 1997 Aug;182(4):429–36

Effects of recombinant interleukin-1 beta on decorin gene expression in human periodontal ligament fibroblast and its possible transcriptional regulation. Lin JM, et al. **J Periodontal Res** 1997 Feb;32(2):225–32

Neural stimulation of Egr-1 messenger RNA expression in rat adrenal gland: possible relation to phenylethanolamine N-methyltransferase gene regulation. Morita K, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):379–85

Drug discovery using receptors that modulate gene expression. Lamb P, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):531–43 (33 ref.)

Regulation of gene expression by nuclear hormone receptors. Meier CA. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):319–35 (45 ref.)

Control of extracellular matrix remodelling within ovarian tissues: localization and regulation of gene expression of plasminogen activator inhibitor type-1 within the ovine corpus luteum. Smith GW, et al. **J Reprod Fertil** 1997 May; 110(1):107–14

Changes of expression of complement 3bi receptors on granulocytes after physical exercise in rats. Hashimoto Y, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):275–80

Activation of Raf-1 in human pancreatic adenocarcinoma. Berger DH, et al. **J Surg Res** 1997 Apr;69(1):199–204

A numerical study of the critical line of Kauffman networks. Bastolla U, et al. **J Theor Biol** 1997 Jul 7;187(1):117–33

Cardiopulmonary bypass and circulatory arrest increase endothelin-1 production and receptor expression in the lung. Kirshbom PM, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):777–83

Connexin43 gene expression in the rabbit arterial wall: effects of hypercholesterolemia, balloon injury and their combination. Polacek D, et al. **J Vasc Res** 1997 Jan–Feb; 34(1):19–30

Effect of the E4 region on the persistence of transgene expression from adenovirus vectors. Armentano D, et al. **J Virol** 1997 Mar;71(3):2408–16

Herpes simplex virus immediate-early proteins ICP0 and ICP4 activate the endogenous human alpha-globin gene in nonerythroid cells. Cheung P, et al. **J Virol** 1997 Mar; 71(3):1784–93

The vesicular stomatitis virus matrix protein inhibits transcription from the human beta interferon promoter. Ferran MC, et al. **J Virol** 1997 Jan;71(1):371–7

Simian virus 40 T antigen can regulate p53-mediated transcription independent of binding p53. Rushton JJ, et al. **J Virol** 1997 Jul;71(7):5620–3

Repression of host RNA polymerase II transcription by herpes simplex virus type 1. Spencer CA, et al. **J Virol** 1997 Mar;71(3):2031–40

Gene expression during reactivation of herpes simplex virus type 1 from latency in the peripheral nervous system is different from that during lytic infection of tissue cultures. Tal-Singer R, et al. **J Virol** 1997 Jul;71(7):5268–76

Oxidant-regulation of gene expression in the chronically inflamed intestine. Jourd'heuil D, et al. **Keio J Med** 1997 Mar;46(1):10–5 (58 ref.)

Antisense and the kidney. Oberbauer R, et al. **Kidney Blood Press Res** 1996;19(5):221–4 (19 ref.)

Erythropoietin gene regulation depends on heme-dependent oxygen sensing and assembly of interacting transcription factors. Huang LE, et al. **Kidney Int** 1997 Feb;51(2):548–52 (34 ref.)

Advanced glycation end products modulate transcriptional regulation in mesangial cells. Iehara N, et al. **Kidney Int** 1996 Oct;50(4):1166–72

Mechanisms by which oxygen regulates gene expression and cell–cell interaction in the vasculature. Kourembanas S, et al. **Kidney Int** 1997 Feb;51(2):438–43

Cytokine gene expression in the MRL/lpr model of lupus nephritis. Lemay S, et al. **Kidney Int** 1996 Jul;50(1):85–93

Regulation of the taurine transporter gene in the S3 segment of the proximal tubule. Matsell DG, et al. **Kidney Int** 1997 Sep;52(3):748–54

Protease nexin 1 in the murine kidney: glomerular localization and up-regulation in glomerulopathies. Moll S, et al. **Kidney Int** 1996 Dec;50(6):1936–45

Oxygen regulated gene expression: erythropoietin as a model system. Ratcliffe PJ, et al. **Kidney Int** 1997 Feb;51(2):514–26 (79 ref.)

Complex role of protein phosphorylation in gene activation by hypoxia. Salceda S, et al. **Kidney Int** 1997 Feb; 51(2):556–9

Regulated expression of complement factor B in the human kidney. Welch TR, et al. **Kidney Int** 1996 Aug;50(2):521–5

Superinduction of IL-6 synthesis in human peritoneal mesothelial cells is related to the induction and stabilization of IL-6 mRNA. Witowski J, et al. **Kidney Int** 1996 Oct; 50(4):1212–23

Transforming growth factor beta 1 and renal injury following subtotal nephrectomy in the rat: role of the renin-angiotensin system. Wu LL, et al. **Kidney Int** 1997 May;51(5):1553–67

Inhibitory effect of c-fos overexpression on B cell proliferative responses to membrane IGM cross-linking. Tomita Y, et al. **Kobe J Med Sci** 1995 Oct;41(5):141–53

Characterization of a new human liver myofibroblast cell line: transcriptional regulation of plasminogen activator inhibitor type I by transforming growth factor beta 1. Weill FX, et al. **Lab Invest** 1997 Jul;77(1):63–70

Recurring proviral integration suggests a role for proto-oncogene activation in thymomas induced with Mo-MuLV-rescued BCR/ABL virus. Clark SS. **Leukemia** 1997 Jul;11(7):1026–33

Functional relationships among ETS gene family members. Papas TS, et al. **Leukemia** 1997 Apr;11 Suppl 3:557–66 (49 ref.)

Howard Temin Memorial Lectureship. Molecular biology of HTLV-1: deregulation of host cell gene expression and cell cycle. Yoshida M. **Leukemia** 1997 Apr;11 Suppl 3:1–2

Induction of ICE and inhibition of c-fos, jun D and zif 268 in 12-month old spontaneously hypertensive rats. Chen H, et al. **Life Sci** 1997;61(2):PL27–31

Autonomous control of expression of genes for insulin-like growth factors during the proliferation and differentiation of C2C12 mouse myoblasts in serum-free culture. Yoshiko Y, et al. **Life Sci** 1996;59(23):1961–8

Gene expression in liver after toxic injury: analysis of heat shock response and oxidative stress-inducible genes. Schiaffonati L, et al. **Liver** 1997 Aug;17(4):183–91

Expression of anti-DNA antibodies. Stevenson FK, et al. **Lupus** 1997;6(3):321–3 (7 ref.)

Genetic control of DNA antibody production: focus on the heavy chain. Tsao B, et al. **Lupus** 1997;6(3):310–4 (21 ref.)

Regulation of expression of the alpha 1 (I) collagen gene: a critical appraisal of the role of the first intron [see comments] Bornstein P. **Matrix Biol** 1996 Apr;15(1):3–10 (54 ref.). Comment in: Matrix Biol 1996 Jul;15(2):62–3; discussion 70. Comment in: Matrix Biol 1996 Jul;15(2):64; discussion 70. Comment in: Matrix Biol 1996 Jul;15(2):65; discussion 70. Comment in: Matrix Biol 1996 Jul;15(2):66–7; discussion 70. Comment in: Matrix Biol 1996 Jul;15(2):68–9; discussion 70.

Role of the first intron in the regulation of the COL 1A1 gene [letter; comment] de Wet WJ. **Matrix Biol** 1996 Jul; 15(2):66–7; discussion 70. Comment on: Matrix Biol 1996 Apr;15(1):3–10.

Role of the first intron in the regulation of the COL 1A1 gene [letter; comment] Krebsbach PH, et al. **Matrix Biol** 1996 Jul;15(2):64; discussion 70. Comment on: Matrix Biol 1996 Apr;15(1):3–10.

Role of the first intron in the regulation of the COL 1A1 gene [letter; comment] Prockop DJ. **Matrix Biol** 1996 Jul; 15(2):68–9; discussion 70. Comment on: Matrix Biol 1996 Apr;15(1):3–10.

Role of the first intron in the regulation of the COL 1A1 gene [letter; comment] Wang Q, et al. **Matrix Biol** 1996 Jul;15(2):65; discussion 70. Comment on: Matrix Biol 1996 Apr;15(1):3–10.

A Krox binding site regulates protease nexin-1 promoter activity in embryonic heart, cartilage and parts of the nervous system. Ernø H, et al. **Mech Dev** 1996 Dec; 60(2):139–50

WEE1-like CDK tyrosine kinase mRNA level is regulated temporally and spatially in sea urchin embryos. Nemer M, et al. **Mech Dev** 1996 Aug;58(1–2):75–88

The Polycomb-group homolog Bmi-1 is a regulator of murine Hox gene expression. van der Lugt NM, et al. **Mech Dev** 1996 Aug;58(1–2):153–64

The control of gene expression in melanocytes and melanomas. Eisen TG. **Melanoma Res** 1996 Aug; 6(4):277–84 (36 ref.)

Study of gene regulation by NF-kappa B and AP-1 in response to reactive oxygen intermediates. Müller JM, et al. **Methods** 1997 Mar;11(3):301–12 (90 ref.)

Regulated gene expression in reconstituted chromatin and synthetic nuclei. Barton MC, et al. **Methods Enzymol** 1996; 274:299–312

Identifying regulators of transcript elongation in eukaryotes. Edwards AM, et al. **Methods Enzymol** 1996;274:419–36

Promoters and basal transcription machinery in eubacteria and eukaryotes: concepts, definitions, and analogies. Fassler JS, et al. **Methods Enzymol** 1996;273:3–29 (248 ref.)

Regulation of receptor expression. Analysis of receptor mRNA and gene transcription. Iredale PA, et al. **Methods Mol Biol** 1997;83:251–72 (15 ref.)

Fgr expression restricted to subpopulation of monocyte/macrophage lineage in resting conditions is induced in various hematopoietic cells after activation or transformation. Hatakeyama S, et al. **Microbiol Immunol** 1996;40(3):223–31

Vectors for inducible expression of toxic gene products in bloodstream and procyclic Trypanosoma brucei. Biebinger S, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):99–112

Post-transcriptional control of PARP gene expression. Clayton C, et al. **Mol Biochem Parasitol** 1996 Apr;77(1):1–6 (40 ref.)

Differentially expressed, abundant trans-spliced cDNAs from larval Brugia malayi. Gregory WF, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):85–95

Role of 3'-untranslated regions in the regulation of hexose transporter mRNAs in Trypanosoma brucei. Hotz HR, et al. **Mol Biochem Parasitol** 1995 Dec;75(1):1–14

Binding of trans-acting factors to the double-stranded variant surface glycoprotein (VSG) expression site promoter of Trypanosoma brucei. Pham VP, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):11–23

A detailed mutational analysis of the VSG gene expression site promoter. Pham VP, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):241–54

A tetracycline-inducible gene expression system in Entamoeba histolytica. Ramakrishnan G, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):93–100

Contributions of the procyclin 3' untranslated region and coding region to the regulation of expression in bloodstream forms of Trypanosoma brucei. Schürch N, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):109–21

Stage-regulated expression of cruzipain, the major cysteine protease of Trypanosoma cruzi is independent of the level of RNA1. Tomás AM, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):91–103

Toxoplasma gondii expressed sequence tags: insight into tachyzoite gene expression. Wan KL, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):179–86

Structure of pp32, an acidic nuclear protein which inhibits oncogene-induced formation of transformed foci. Chen TH, et al. **Mol Biol Cell** 1996 Dec;7(12):2045–56

Distinct roles of yeast MEC and RAD checkpoint genes in transcriptional induction after DNA damage and implications for function. Kiser GL, et al. **Mol Biol Cell** 1996 May;7(5):703–18

Autoregulation of mariner transposase activity by overproduction and dominant-negative complementation. Lohe AR, et al. **Mol Biol Evol** 1996 Apr;13(4):549–55

Regulation of transcription of the testis-specific histone H1t gene by multiple promoter elements. Grimes SR Jr, et al. **Mol Biol Rep** 1997 Aug;24(3):175–84 (70 ref.)

Molecular mechanisms of hormone controlled gene expression in the breast. Hennighausen L. **Mol Biol Rep** 1997 Aug;24(3):169–74 (43 ref.)

Chromatin domains and nuclear compartments: establishing sites of gene expression in eukaryotic nuclei. Jackson DA. **Mol Biol Rep** 1997 Aug;24(3):209–20 (55 ref.)

Transcriptional regulation during myelopoiesis. Lenny N, et al. **Mol Biol Rep** 1997 Aug;24(3):157–68 (164 ref.)

The osteocalcin gene: a model for multiple parameters of skeletal-specific transcriptional control. Stein GS, et al. **Mol Biol Rep** 1997 Aug;24(3):185–96 (102 ref.)

Microinjection of in vitro transcribed RNA and antisense oligonucleotides in mouse oocytes and early embryos to study the gain- and loss-of-function of genes. Kola I, et al. **Mol Biotechnol** 1996 Oct;6(2):191–9

Rapid assay of HSF1 and HSF2 gene expression by RT-PCR. Ding XZ, et al. **Mol Cell Biochem** 1996 May 24; 158(2):189–92

Calcium-binding protein regucalcin mRNA expression in the kidney cortex is suppressed by saline ingestion in rats. Shinya N, et al. **Mol Cell Biochem** 1996 Sep 20; 162(2):139–44

Okadaic acid-induced transcriptional downregulation of type I collagen gene expression is mediated by protein phosphatase 2A. Wang Q, et al. **Mol Cell Biochem** 1996 May 10;158(1):33–42

Mad proteins contain a dominant transcription repression domain. Ayer DE, et al. **Mol Cell Biol** 1996 Oct; 16(10):5772–81

Differential regulation of NF-kappaB2(p100) processing and control by amino-terminal sequences. Betts JC, et al. **Mol Cell Biol** 1996 Nov;16(11):6363–71

A yeast TATA-binding protein mutant that selectively enhances gene expression from weak RNA polymerase II promoters. Blair WS, et al. **Mol Cell Biol** 1997 May; 17(5):2888–96

Regulation of K3 keratin gene transcription by Sp1 and AP-2 in differentiating rabbit corneal epithelial cells. Chen TT, et al. **Mol Cell Biol** 1997 Jun;17(6):3056–64

Distinct retinoid X receptor-retinoic acid receptor

heterodimers are differentially involved in the control of expression of retinoid target genes in F9 embryonal carcinoma cells. Chiba H, et al. **Mol Cell Biol** 1997 Jun; 17(6):3013–20

The Rb family contains a conserved cyclin–dependent–kinase–regulated transcriptional repressor motif. Chow KN, et al. **Mol Cell Biol** 1996 Dec; 16(12):7173–81

Cloning of the novel human myeloid–cell–specific C/EBP–epsilon transcription factor. Chumakov AM, et al. **Mol Cell Biol** 1997 Mar;17(3):1375–86

Interdependent transcription control elements regulate the expression of the SPRR2A gene during keratinocyte terminal differentiation. Fischer DF, et al. **Mol Cell Biol** 1996 Oct;16(10):5365–74

Expression of var genes located within polymorphic subtelomeric domains of Plasmodium falciparum chromosomes. Fischer K, et al. **Mol Cell Biol** 1997 Jul; 17(7):3679–86

Regulation of gene expression by cyclic GMP–dependent protein kinase requires nuclear translocation of the kinase: identification of a nuclear localization signal. Gudi T, et al. **Mol Cell Biol** 1997 Sep;17(9):5244–54

A circadian enhancer mediates PER–dependent mRNA cycling in Drosophila melanogaster. Hao H, et al. **Mol Cell Biol** 1997 Jul;17(7):3687–93

CD28 mediates a potent costimulatory signal for rapid degradation of IkappaBbeta which is associated with accelerated activation of various NF–kappaB/Rel heterodimers. Harhaj EW, et al. **Mol Cell Biol** 1996 Dec; 16(12):6736–43

Role of the Ada adaptor complex in gene activation by the glucocorticoid receptor. Henriksson A, et al. **Mol Cell Biol** 1997 Jun;17(6):3065–73

Expressed var genes are found in Plasmodium falciparum subtelomeric regions. Hernandez–Rivas R, et al. **Mol Cell Biol** 1997 Feb;17(2):604–11

Transcriptional synergy between LIM–homeodomain proteins and basic helix–loop–helix proteins: the LIM2 domain determines specificity. Johnson JD, et al. **Mol Cell Biol** 1997 Jul;17(7):3488–96

Chicken ovalbumin upstream promoter transcription factors act as auxiliary cofactors for hepatocyte nuclear factor 4 and enhance hepatic gene expression. Ktistaki E, et al. **Mol Cell Biol** 1997 May;17(5):2790–7

Elf–1 and Stat5 bind to a critical element in a new enhancer of the human interleukin–2 receptor alpha gene. Lécine P, et al. **Mol Cell Biol** 1996 Dec;16(12):6829–40

3pK, a novel mitogen–activated protein (MAP) kinase–activated protein kinase, is targeted by three MAP kinase pathways. Ludwig S, et al. **Mol Cell Biol** 1996 Dec; 16(12):6687–97

The human cut homeodomain protein can repress gene expression by two distinct mechanisms: active repression and competition for binding site occupancy. Mailly F, et al. **Mol Cell Biol** 1996 Oct;16(10):5346–57

ZBP–89, a Krüppel–like zinc finger protein, inhibits epidermal growth factor induction of the gastrin promoter. Merchant JL, et al. **Mol Cell Biol** 1996 Dec;16(12):6644–53

HSF4, a new member of the human heat shock factor family which lacks properties of a transcriptional activator. Nakai A, et al. **Mol Cell Biol** 1997 Jan;17(1):469–81

CREB controls LAP/C/EBP beta transcription. Niehof M, et al. **Mol Cell Biol** 1997 Jul;17(7):3600–13

Combinatorial determinants of tissue–specific transcription in B cells and macrophages. Nikolajczyk BS, et al. **Mol Cell Biol** 1997 Jul;17(7):3527–35

Expression of the HsOrc1 gene, a human ORC1 homolog, is regulated by cell proliferation via the E2F transcription factor. Ohtani K, et al. **Mol Cell Biol** 1996 Dec; 16(12):6977–84

Sequences within the 5' untranslated region regulate the levels of a kinetoplast DNA topoisomerase mRNA during the cell cycle. Pasion SG, et al. **Mol Cell Biol** 1996 Dec; 16(12):6724–35

DNA elements regulating alpha1–tubulin gene induction during regeneration of eukaryotic flagella. Periz G, et al. **Mol Cell Biol** 1997 Jul;17(7):3858–66

Purification and characterization of FBI–1, a cellular factor that binds to the human immunodeficiency virus type 1 inducer of short transcripts. Pessler F, et al. **Mol Cell Biol** 1997 Jul;17(7):3786–98

Recombination signal sequence binding protein Jkappa is constitutively bound to the NF–kappaB site of the interleukin–6 promoter and acts as a negative regulatory factor. Plaisance S, et al. **Mol Cell Biol** 1997 Jul; 17(7):3733–43

Transcription mediated by NFAT is highly inducible in effector CD4+ T helper 2 (Th2) cells but not in Th1 cells. Rincón M, et al. **Mol Cell Biol** 1997 Mar;17(3):1522–34

The transcriptional activator hepatocyte nuclear factor 6 regulates liver gene expression. Samadani U, et al. **Mol Cell Biol** 1996 Nov;16(11):6273–84

Cyclin–mediated inhibition of muscle gene expression via a mechanism that is independent of pRB hyperphosphorylation. Skapek SX, et al. **Mol Cell Biol** 1996 Dec;16(12):7043–53

The accumulation of an E2F–p130 transcriptional repressor distinguishes a G0 cell state from a G1 cell state. Smith EJ, et al. **Mol Cell Biol** 1996 Dec;16(12):6965–76

Two human cDNAs, including a homolog of Arabidopsis FUS6 (COP11), suppress G–protein– and mitogen–activated protein kinase–mediated signal transduction in yeast and mammalian cells. Spain BH, et al. **Mol Cell Biol** 1996 Dec;16(12):6698–706

A role for nucleoporin FG repeat domains in export of human immunodeficiency virus type 1 Rev protein and RNA from the nucleus. Stutz F, et al. **Mol Cell Biol** 1996 Dec; 16(12):7144–50

rac1 regulates a cytokine–stimulated, redox–dependent pathway necessary for NF–kappaB activation. Sulciner DJ, et al. **Mol Cell Biol** 1996 Dec;16(12):7115–21

Expression of E1A in terminally differentiated muscle cells reactivates the cell cycle and suppresses tissue–specific genes by separable mechanisms. Tiainen M, et al. **Mol Cell Biol** 1996 Oct;16(10):5302–12

TATA–binding protein is limiting for both TATA–containing and TATA–lacking RNA polymerase III promoters in Drosophila cells. Trivedi A, et al. **Mol Cell Biol** 1996 Dec;16(12):6909–16

Cell–type–specific regulation of the human tumor necrosis factor alpha gene in B cells and T cells by NFATp and ATF–2/JUN. Tsai EY, et al. **Mol Cell Biol** 1996 Oct; 16(10):5232–44

Interferon regulatory factors and TFIIB cooperatively regulate interferon–responsive promoter activity in vivo and in vitro. Wang IM, et al. **Mol Cell Biol** 1996 Nov; 16(11):6313–24

Enhancement of lymphocyte responsiveness by a gain–of–function mutation of ZAP–70. Zhao Q, et al. **Mol Cell Biol** 1996 Dec;16(12):6765–74

Synergism in estrogen–regulated gene expression. Arnold SF, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):119–22 (14 ref.)

Involvement of a subset of tyrosine kinases and phosphatases in regulation of the beta–lactoglobulin gene promoter by prolactin. Daniel N, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1–2):25–35

Multiple transcription start sites for the GnRH gene in rhesus and cynomolgus monkeys: a non–human primate model for studying GnRH gene regulation. Dong KW, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):121–30

Evidence for estrogen receptor–mediated regulation of human gonadotropin–releasing hormone promoter activity in human placental cells. Dong KW, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):241–6

Identification of the human insulin negative regulatory element as a negative glucocorticoid response element. Goodman PA, et al. **Mol Cell Endocrinol** 1996 Jul 1; 120(2):139–46

Early induction of the NGFI–B/Nur77 family genes in nephritis induced by anti–glomerular basement membrane antibody. Hayashi K, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):205–9

Characterization of a nontumorigenic human breast epithelial cell line stably transfected with the human estrogen receptor (ER) cDNA. Lundholt BK, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):47–59

The sheep estrogen receptor: cloning and regulation of expression in the hypothalamo–pituitary axis. Madigou T, et al. **Mol Cell Endocrinol** 1996 Aug 9;121(2):153–63

Essential promoter elements are located within the 5' untranslated region of human insulin–like growth factor–I exon I. Mittanck DW, et al. **Mol Cell Endocrinol** 1997 Feb 7;126(2):153–63

Retinoid X receptor and peroxisome proliferator–activated receptor activate an estrogen responsive gene independent of the estrogen receptor. Nuñez SB, et al. **Mol Cell Endocrinol** 1997 Mar 14;127(1):27–40

Cloning, expression and regulation of the human S14 gene. Ota Y, et al. **Mol Cell Endocrinol** 1997 Jan 3;126(1):75–81

Transcription regulatory signals in the 5' and 3' regions of Oreochromis aureus ER gene. Tan NS, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):149–61

Insulin/IGF–1 modulation of the expression of two estrogen–induced genes in MCF–7 cells. el–Tanani MK, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):29–35

Juvenile hormone regulation of an insect gene: a specific transcription factor and a DNA response element. Zhang J, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):15–20

Target contact regulates expression of synaptotagmin genes in spinal motor neurons in vivo. Campagna JA, et al. **Mol Cell Neurosci** 1997;8(6):377–88

Altered connexin expression after peripheral nerve injury. Chandross KJ, et al. **Mol Cell Neurosci** 1996 Jun; 7(6):501–18

Estradiol–binding mechanism and binding capacity of the human estrogen receptor is regulated by tyrosine phosphorylation. Arnold SF, et al. **Mol Endocrinol** 1997 Jan;11(1):48–53

The short form of the prolactin (PRL) receptor silences PRL induction of the beta–casein gene promoter. Berlanga JJ, et al. **Mol Endocrinol** 1997 Sep;11(10):1449–57

Steroidogenic factor 1 and estradiol receptor act in synergism to regulate the expression of the salmon gonadotropin II beta subunit gene. Drean YL, et al. **Mol Endocrinol** 1996 Mar;10(3):217–29

The dynamics of the transcriptional response to cyclic adenosine 3',5'–monophosphate: recurrent inducibility and refractory phase. Lamas M, et al. **Mol Endocrinol** 1997 Sep; 11(10):1415–24

Two distinct mechanisms elicit androgen–dependent expression of the mouse sex–limited protein gene. Nelson SA, et al. **Mol Endocrinol** 1997 Apr;11(4):460–9

Modulation of expression at the level of splicing of cut–1 RNA in the infective second–stage juvenile of the plant parasitic nematode Meloidogyne artiellia. De Giorgi C, et al. **Mol Gen Genet** 1997 Feb 20;253(5):589–98

Methylation of cytosines in nonconventional methylation acceptor sites can contribute to reduced gene expression. Diéguez MJ, et al. **Mol Gen Genet** 1997 Feb 20;253(5):581–8

Introns boost transgene expression in Drosophila melanogaster. Duncker BP, et al. **Mol Gen Genet** 1997 Apr 16;254(3):291–6

A novel homologue of the prokaryotic htrA gene is differentially expressed in the alga Haematococcus pluvialis following stress. Hershkovits G, et al. **Mol Gen Genet** 1997 Apr 28;254(4):345–50

Ectopic expression of sex–peptide in a variety of tissues in Drosophila females using the P[GAL4] enhancer–trap system. Nakayama S, et al. **Mol Gen Genet** 1997 Apr 28; 254(4):449–55

Relationship between the expression of cyclins/cyclin–dependent kinases and sex–steroid receptors/Ki67 in normal human endometrial glands and stroma during the menstrual cycle. Shiozawa T, et al. **Mol Hum Reprod** 1996 Oct;2(10):745–52

Expression of multiple thyroid hormone receptor mRNAs in human oocytes, cumulus cells, and granulosa cells. Zhang SS, et al. **Mol Hum Reprod** 1997 Jul;3(7):555–62

Transforming growth factor–beta2–mediated regulation of C3 gene expression in monocytes. Drouin SM, et al. **Mol Immunol** 1996 Sep;33(13):1025–34

Isolation and characterization of a TATA–less promoter for the human RAG–1 gene. Kurioka H, et al. **Mol Immunol** 1996 Sep;33(13):1059–66

Role of muIP–10 in interferon–gamma induction of Ia in rat astrocytes. Vanguri P, et al. **Mol Immunol** 1996 Sep; 33(13):1079–87

Versatile retrovirus vector systems for regulated gene expression in vitro and in vivo. Lindemann D, et al. **Mol Med** 1997 Jul;3(7):466–76

Heat–inducible promoters for gene therapy [news] Fricker J. **Mol Med Today** 1997 Mar;3(3):94–5

Cis preference of the IS903 transposase is mediated by a combination of transposase instability and inefficient translation. Derbyshire KM, et al. **Mol Microbiol** 1996 Sep; 21(6):1261–72

Single–cell analysis of gene expression in the nervous system. Measurements at the edge of chaos. O'Dowd DK, et al. **Mol Neurobiol** 1996 Dec;13(3):199–211 (41 ref.)

Selective inhibition of A–Raf and C–Raf mRNA expression by antisense oligodeoxynucleotides in rat vascular smooth muscle cells: role of A–Raf and C–Raf in serum–induced proliferation. Cioffi CL, et al. **Mol Pharmacol** 1997 Mar; 51(3):383–9

Extent and character of phenobarbital–mediated changes in gene expression in the liver. Frueh FW, et al. **Mol Pharmacol** 1997 Mar;51(3):363–9

High affinity glutamate transporters: regulation of expression and activity. Gegelashvili G, et al. **Mol Pharmacol** 1997 Jul;52(1):6–15 (98 ref.)

Regulation of mouse neuropeptide Y Y1 receptor gene transcription: a potential role for nuclear factor–kappa B/Rel proteins. Musso R, et al. **Mol Pharmacol** 1997 Jan; 51(1):27–35

Involvement of activator protein–1 and nuclear factor–kappaB transcription factors in the control of the DT–diaphorase expression induced by mitomycin C treatment. Yao KS, et al. **Mol Pharmacol** 1997 Mar; 51(3):422–30

Interleukin 1 receptor antagonist gene expression in rat pituitary in the systemic inflammatory response syndrome: pathophysiological implications. Licinio J, et al. **Mol Psychiatry** 1997 Mar;2(2):99–103

Co–integration of beta–lactoglobulin/human serum albumin hybrid genes with the entire beta–lactoglobulin gene or the matrix attachment region element: repression of human serum albumin and beta–lactoglobulin expression in the mammary gland and dual regulation of the transgenes. Barash I, et al. **Mol Reprod Dev** 1996 Dec;45(4):421–30

Position–independent and high–level expression of human alpha–lactalbumin in the milk of transgenic rats carrying a 210–kb YAC DNA. Fujiwara Y, et al. **Mol Reprod Dev** 1997 Jun;47(2):157–63

Estrogen–induced cyclin D1 and D3 gene expressions during mouse uterine cell proliferation in vivo: differential induction mechanism of cyclin D1 and D3. Geum D, et al. **Mol Reprod Dev** 1997 Apr;46(4):450–8

Transcriptional regulation of the mouse CSF–1 gene. Harrington M, et al. **Mol Reprod Dev** 1997 Jan;46(1):39–44; discussion 44–5 (16 ref.)

New member of the Snf1/AMPK kinase family, Melk, is expressed in the mouse egg and preimplantation embryo. Heyer BS, et al. **Mol Reprod Dev** 1997 Jun;47(2):148–56

Cyclin B1 expression in meiotically competent and incompetent goat oocytes. Hue I, et al. **Mol Reprod Dev** 1997 Jun;47(2):222–8

Activation of the complete mouse metallothionein gene locus in the maternal deciduum. Liang L, et al. **Mol Reprod Dev** 1996 Jan;43(1):25–37

Expression of mRNA for the insulin–like growth factors and their receptors in human preimplantation embryos. Lighten AD, et al. **Mol Reprod Dev** 1997 Jun;47(2):134–9

Expression of tumor necrosis factor–alpha and its receptors type I and type II in human oocytes. Naz RK, et al.

Mol Reprod Dev 1997 Jun;47(2):127–33

Up-regulation and down-regulation of genes expressed in cocultures of rat Sertoli cells and germ cells. Syed V, et al. **Mol Reprod Dev** 1997 Aug;47(4):380–9

Genetic regulation of slowly progressing mild muscle atrophy in fast-twitch muscles of BUF/Mna rats. Amo H, et al. **Muscle Nerve** 1997 Oct;20(10):1258–63

Chinese hamster cells expressing antisense to metallothionein become spontaneous mutators. Rossman TG, et al. **Mutat Res** 1997 Jan 3;373(1):75–85

Expression of yeast but not human apurinic/apyrimidinic endonuclease renders Chinese hamster cells more resistant to DNA damaging agents. Tomicic M, et al. **Mutat Res** 1997 Mar 12;383(2):155–65

Mutation of RFXAP, a regulator of MHC class II genes, in primary MHC class II deficiency [see comments] Villard J, et al. **N Engl J Med** 1997 Sep 11;337(11):748–53. Comment in: N Engl J Med 1997 Sep 11;337(11):781–3.

Gene activation and EPO [news] Davidson S. **Nat Biotechnol** 1997 Jun;15(6):497

Ligand-inducible and liver-specific target gene expression in transgenic mice. Wang Y, et al. **Nat Biotechnol** 1997 Mar;15(3):239–43

Trinucleotide repeat expansion at the myotonic dystrophy locus reduces expression of DMAHP. Klesert TR, et al. **Nat Genet** 1997 Aug;16(4):402–6

Expansion of the myotonic dystrophy CTG repeat reduces expression of the flanking DMAHP gene. Thornton CA, et al. **Nat Genet** 1997 Aug;16(4):407–9

AP2 inhibits cancer cell growth and activates p21WAF1/CIP1 expression. Zeng YX, et al. **Nat Genet** 1997 Jan;15(1):78–82

The absence of c-fos prevents light-induced apoptotic cell death of photoreceptors in retinal degeneration in vivo [see comments] Hafezi F, et al. **Nat Med** 1997 Mar;3(3):346–9 . Comment in: Nat Med 1997 Mar;3(3):280.

Role for N-CoR and histone deacetylase in Sin3-mediated transcriptional repression [see comments] Alland L, et al. **Nature** 1997 May 1;387(6628):49–55. Comment in: Nature 1997 May 1;387(6628):16–7.

The histone deacetylase RPD3 counteracts genomic silencing in Drosophila and yeast. De Rubertis F, et al. **Nature** 1996 Dec 12;384(6609):589–91

Regulation of transcription by proteins that control the cell cycle. Dynlacht BD. **Nature** 1997 Sep 11;389(6647):149–52 (70 ref.)

A complex containing N-CoR, mSin3 and histone deacetylase mediates transcriptional repression [see comments] Heinzel T, et al. **Nature** 1997 May 1; 387(6628):43–8. Comment in: Nature 1997 May 1;387(6628):16–7.

Transcriptional activation. Something new to hang your HAT on [news; comment] Montminy M. **Nature** 1997 Jun 12;387(6634):654–5. Comment on: Nature 1997 Jun 12;387(6634):677–84. Comment on: Nature 1997 Jun 12;387(6634):733–6.

A structural basis for mutational inactivation of the tumour suppressor Smad4 [see comments] Shi Y, et al. **Nature** 1997 Jul 3;388(6637):87–93. Comment in: Nature 1997 Jul 3;388(6637):28–9.

Cyclin D2 is an FSH-responsive gene involved in gonadal cell proliferation and oncogenesis. Sicinski P, et al. **Nature** 1996 Dec 5;384(6608):470–4

Transcriptional control. Sinful repression [news; comment] Wolffe AP. **Nature** 1997 May 1;387(6628):16–7. Comment on: Nature 1997 May 1;387(6628):43–8. Comment on: Nature 1997 May 1;387(6628):49–55.

Parathyroid gland calcium receptor gene expression is not regulated by increased dietary phosphorus in normal and renal failure rats. Hernández A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:11–4

Gene activation pathways of nerve growth factor signaling: a minireview. Szeberényi J. **Neurobiology (Bp)** 1996; 4(1–2):1–11 (19 ref.)

Gene expression and apoptosis in the spinal cord neurons after sciatic nerve injury. Gu ZZ, et al. **Neurochem Int** 1997 Apr–May;30(4–5):417–26

Temperature-dependent regulation of PLP/DM20 and CNP gene expression in two conditionally-immortalized jimpy oligodendrocyte cell lines. Bongarzone ER, et al. **Neurochem Res** 1997 Apr;22(4):363–72

Regulation of the promoter of the human corticotropin-releasing hormone gene in transfected human endometrial cells. Makrigiannakis A, et al. **Neuroendocrinology** 1996 Aug;64(2):85–92

Modulation of a novel RNA in brain neurons by glucocorticoid and mineralocorticoid receptors. Masters JN, et al. **Neuroendocrinology** 1996 Jan;63(1):28–38

Connexin 32 mRNA levels in the rat supraoptic nucleus: up-regulation prior to parturition and during lactation. Micevych PE, et al. **Neuroendocrinology** 1996 Jan; 63(1):39–45

Identification of mRNAs regulated by interferon-gamma in cultured rat astrocytes by PCR differential display. Kuchinke W, et al. **Neuroimmunomodulation** 1995 Nov–Dec;2(6):347–55

Calcium regulation of gene expression: isn't that spatial? Ginty DD. **Neuron** 1997 Feb;18(2):183–6 (20 ref.)

Molecular mechanisms underlying the regulation of proenkephalin gene expression in cultured spinal cord cells. Ha TS, et al. **Neuropeptides** 1996 Oct;30(5):506–13

Parameters influencing ectopic gene expression in Aplysia neurons. Kaang BK. **Neurosci Lett** 1996 Dec 27; 221(1):29–32

Elicitation and reduction of fear: behavioural and neuroendocrine indices and brain induction of the immediate-early gene c-fos. Campeau S, et al. **Neuroscience** 1997 Jun;78(4):1087–104

Androgen receptor immunoreactivity and mating-induced Fos expression in forebrain and midbrain structures in the male rat. Gréco B, et al. **Neuroscience** 1996 Nov; 75(1):161–71

Induction of glucose-regulated protein (glucose-regulated protein 78/BiP and glucose-regulated protein 94) and heat shock protein 70 transcripts in the immature rat brain following status epilepticus. Little E, et al. **Neuroscience** 1996 Nov;75(1):209–19

Comparative study of the pattern of expression of calmodulin messenger RNAs in the mouse brain. Solà C, et al. **Neuroscience** 1996 Nov;75(1):245–56

Identification and characterization of a novel gene (neurorep 1) expressed in nerve cells and up-regulated after axotomy. Uwabe K, et al. **Neuroscience** 1997 Sep;80(2):501–9

Transcriptional modulation of viral reporter gene constructs following induction of the cellular stress response. Andrews JM, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1082–4

The 5' terminal oligopyrimidine tract confers translational control on TOP mRNAs in a cell type- and sequence context-dependent manner. Avni D, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):995–1001

Mammalian cDNA and prokaryotic reporter sequences silence adjacent transgenes in transgenic mice. Clark AJ, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1009–14

SP1-binding elements, within the common metaxin-thrombospondin 3 intergenic region, participate in the regulation of the metaxin gene. Collins M, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3661–9

Transcriptional repression by p53 involves molecular interactions distinct from those with the TATA box binding protein. Farmer G, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4281–8

A novel tetracycline-dependent expression vector with low basal expression and potent regulatory properties in various mammalian cell lines. Hoffmann A, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1078–9

A promoter element active in run-off transcription controls the expression of two cistrons of nad and rps genes in Nicotiana sylvestris mitochondria. Lelandais C, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4798–804

Wild-type but not mutant p53 activates the hepatocyte growth factor/scatter factor promoter. Metcalfe AM, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):983–6

Differential in vivo activation of the class II and class III snRNA genes by the POU-specific domain of Oct-1. Murphy S. **Nucleic Acids Res** 1997 Jun 1;25(11):2068–76

Effect of in vitro promoter methylation and CGG repeat expansion on FMR-1 expression. Sandberg G, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2883–7

Identification of an intronic enhancer that nullifies upstream repression of SPARC gene expression. Satyamoorthy K, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):3169–74

Effect of telomere length on telomeric gene expression. Sprung CN, et al. **Nucleic Acids Res** 1996 Nov 1; 24(21):4336–40

TRANSFAC, TRRD and COMPEL: towards a federated database system on transcriptional regulation. Wingender E, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):265–8

Gene regulation by copper and the basis for copper homeostasis [editorial] Mercer JF. **Nutrition** 1997 Jan; 13(1):48–9

Erg, an Ets-family member, differentially regulates human collagenase1 (MMP1) and stromelysin1 (MMP3) gene expression by physically interacting with the Fos/Jun complex. Buttice G, et al. **Oncogene** 1996 Dec 5; 13(11):2297–306

Transcriptional and post-transcriptional regulation of kappaB-controlled genes by pp60v-src. Cabannes E, et al. **Oncogene** 1997 Jul 3;15(1):29–43

The p53 activation and apoptosis induced by DNA damage are reversibly inhibited by salicylate. Chernov MV, et al. **Oncogene** 1997 May 29;14(21):2503–10

K-ras modulates the cell cycle via both positive and negative regulatory pathways. Fan J, et al. **Oncogene** 1997 May 29; 14(21):2595–607

Regulated ectopic expression of cyclin D1 induces transcriptional activation of the cdk inhibitor p21 gene without altering cell cycle progression. Hiyama H, et al. **Oncogene** 1997 May 29;14(21):2533–42

Transcriptional regulation of the hepatocyte growth factor (HGF) gene by the Sp family of transcription factors. Jiang JG, et al. **Oncogene** 1997 Jun 26;14(25):3039–49

Involvement of c-JUN in the regulation of terminal differentiation genes in normal and malignant keratinocytes. Lohman FP, et al. **Oncogene** 1997 Apr 3;14(13):1623–7

SAGE transcript profiles for p53-dependent growth regulation. Madden SL, et al. **Oncogene** 1997 Aug 28; 15(9):1079–85

Wild-type p53 protein is unable to activate the mdm-2 gene during F9 cell differentiation. Mayo LD, et al. **Oncogene** 1996 Dec 5;13(11):2315–21

Gli family members are differentially expressed during the mitotic phase of spermatogenesis. Persengiev SP, et al. **Oncogene** 1997 May 15;14(19):2259–64

Relief of cyclin A gene transcriptional inhibition during activation of human primary T lymphocytes via CD2 and CD28 adhesion molecules. Plet A, et al. **Oncogene** 1997 May 29;14(21):2575–83

Essential role of calcium in the regulation of MAP kinase phosphatase-1 expression. Scimeca JC, et al. **Oncogene** 1997 Aug 7;15(6):717–25

Cyclic AMP signalling pathway and cellular proliferation: induction of CREM during liver regeneration. Servillo G, et al. **Oncogene** 1997 Apr 3;14(13):1601–6

The chicken adenosine receptor 2B gene is regulated by v-myb. Worpenberg S, et al. **Oncogene** 1997 Jul 10; 15(2):213–21

Comparative expression of the LINE-1 p40 protein in human breast carcinomas and normal breast tissues. Asch HL, et al. **Oncol Res** 1996;8(6):239–47

Cellular pharmacology and molecular biology of the trabecular meshwork inducible glucocorticoid response gene product. Polansky JR, et al. **Ophthalmologica** 1997; 211(3):126–39

Complexity of IL-1 beta induced gene expression pattern in human articular chondrocytes. Margerie D, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):129–38

Expression of proliferating cell nuclear antigen in gastrointestinal tract lesions and its relationship to bcl-2 expression. Bell K, et al. **Pathobiology** 1996;64(2):91–8

Profilin gene expression and regulation in a temperature-sensitive breast cancer cell line: tsFT101. Cao Y, et al. **Pflugers Arch** 1997 Aug;434(4):341–5

In vivo carbon monoxide exposure and hypoxic hypoxia stimulate immediate early gene expression. Gess B, et al. **Pflugers Arch** 1997 Sep;434(5):568–74

Divergent regulation of vascular endothelial growth factor and of erythropoietin gene expression in vivo. Sandner P, et al. **Pflugers Arch** 1996 Apr;431(6):905–12

Activation and repression of gene expression by POU family transcription factors. Latchman DS. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):511–5 (33 ref.)

Mechanisms of transcriptional activation and repression can both involve TFIID. Manley JL, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):517–26 (60 ref.)

The biochemistry of transcription in eukaryotes: a paradigm for multisubunit regulatory complexes. Tjian R. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):491–9 (47 ref.)

The epidermal keratinocyte as a model for the study of gene regulation and cell differentiation. Eckert RL, et al. **Physiol Rev** 1997 Apr;77(2):397–424 (298 ref.)

The low proliferation rates of human amniotic cells are neither associated to deregulated proto-oncogenes' expression nor to the effect of IFN alpha 2. Oliveira JG, et al. **Placenta** 1997 Mar–Apr;18(2–3):163–8

Hypoxia downregulates continuous and interleukin-1-induced expression of human chorionic gonadotropin in choriocarcinoma cells. Strohmer H, et al. **Placenta** 1997 Sep;18(7):597–604

Light-inducible gene HSP70B encodes a chloroplast-localized heat shock protein in Chlamydomonas reinhardtii. Drzymalla C, et al. **Plant Mol Biol** 1996 Sep;31(6):1185–94

RNA structure and the regulation of gene expression. Klaff P, et al. **Plant Mol Biol** 1996 Oct;32(1–2):89–106 (147 ref.)

Decorin and collagen type I gene expression in avian low score normal pectoral muscle. Velleman SG, et al. **Poult Sci** 1997 Jun;76(6):878–81

Epidermal differentiation and keratin gene expression. Fuchs E. **Princess Takamatsu Symp** 1994;24:290–302 (63 ref.)

Synergism between hypersensitive sites confers long-range gene activation by the beta-globin locus control region. Bresnick EH, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4566–71

Activation domain-mediated enhancement of activator binding to chromatin in mammalian cells. Bunker CA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10820–5

Characterization of the chicken beta-globin insulator. Chung JH, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21; 94(2):575–80

Distinct roles for E2F proteins in cell growth control and apoptosis. DeGregori J, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7245–50

A role for TFIIH in controlling the activity of early RNA polymerase II elongation complexes. Dvir A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9006–10

Characterization of the alpha1B-adrenergic receptor gene promoter region and hypoxia regulatory elements in vascular smooth muscle. Eckhart AD, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9487–92

Rhythms of Drosophila period gene expression in culture. Emery IF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):4092–6

Transcriptional control of circadian hormone synthesis via the CREM feedback loop. Foulkes NS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14140–5

From oligonucleotide shapes to genomic SELEX: novel biological regulatory loops. Gold L, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):59–64 (42 ref.)

The Gfi-1 protooncoprotein represses Bax expression and inhibits T-cell death. Grimes HL, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14569–73 (Eng. Abstr.)

Angiotensin II type1a receptor gene expression in the heart:

AP-1 and GATA-4 participate in the response to pressure overload. Herzig TC, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7543-8

AP-1 transcriptional activity is regulated by a direct association between thioredoxin and Ref-1. Hirota K, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3633-8

Motor-driven gene expression. Jarvis ED, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4097-102

Nitric oxide regulates vascular cell adhesion molecule 1 gene expression and redox-sensitive transcriptional events in human vascular endothelial cells. Khan BV, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9114-9

Design of TATA box-binding protein/zinc finger fusions for targeted regulation of gene expression. Kim JS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3616-20

Doxycycline-mediated quantitative and tissue-specific control of gene expression in transgenic mice. Kistner A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10933-8

Fatty acids and eicosanoids regulate gene expression through direct interactions with peroxisome proliferator-activated receptors alpha and gamma. Kliewer SA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4318-23

Inducible gene expression and protein translocation using nontoxic ligands identified by a mammalian three-hybrid screen. Liberles SD, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7825-30

Regulation of the expression of the tissue transglutaminase gene by DNA methylation. Lu S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4692-7

rRNA-like sequences occur in diverse primary transcripts: implications for the control of gene expression. Mauro VP, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):422-7

Gene expression and cell fusion analyzed by lacZ complementation in mammalian cells. Mohler WA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12423-7

The basic helix-loop-helix transcription factor BETA2/NeuroD is expressed in mammalian enteroendocrine cells and activates secretin gene expression. Mutoh H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3560-4

Activation of the human homologue of the Drosophila sina gene in apoptosis and tumor suppression. Nemani M, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9039-42

Identification of a c-fos-induced gene that is related to the platelet-derived growth factor/vascular endothelial growth factor family [published erratum appears in Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1603] Orlandini M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11675-80

Two glucose transporters in Saccharomyces cerevisiae are glucose sensors that generate a signal for induction of gene expression. Ozcan S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12428-32

Brca2 is coordinately regulated with Brca1 during proliferation and differentiation in mammary epithelial cells. Rajan JV, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13078-83

Brain-derived neurotrophic factor regulates expression of androgen receptors in perineal motoneurons. Al-Shamma HA, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1521-6

Regulation of estrogen receptor transcriptional enhancement by the cyclin A/Cdk2 complex. Trowbridge JM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10132-7

Regulation of gene expression and its role in long-term memory and synaptic plasticity. Tully T. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4239-41

Requirement of STAT5b for sexual dimorphism of body growth rates and liver gene expression. Udy GB, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7239-44

What determines the folding of the chromatin fiber? van Holde K, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):10548-55 (68 ref.)

Nrf1 and Nrf2 positively and c-Fos and Fra1 negatively regulate the human antioxidant response element-mediated expression of NAD(P)H:quinone oxidoreductase1 gene. Venugopal R, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14960-5

Two-component kinase-like activity of nm23 correlates with its motility-suppressing activity. Wagner PD, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9000-5

The interferon-inducible murine p48 (ISGF3gamma) gene is regulated by protooncogene c-myc. Weihua X, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7227-32

Interferon gamma-induced transcription of the murine ISGF3gamma (p48) gene is mediated by novel factors. Weihua X, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7; 94(1):103-8

Buried asparagines determine the dimerization specificities of leucine zipper mutants. Zeng X, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3673-8

Estrogen and thyroid hormone interaction on regulation of gene expression. Zhu YS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12587-92

Quantification of changes in transforming growth factor-beta1 gene expression in experimental crescentic glomerulonephritis. Lianos EA, et al. **Proc Soc Exp Biol Med** 1997 Feb;214(2):180-6

Structure and regulation of the ALS gene. Ooi GT, et al. **Prog Growth Factor Res** 1995;6(2-4):151-7 (30 ref.)

Regulation of liver-specific gene expression. Chojkier M. **Prog Liver Dis** 1995;13:37-61 (155 ref.)

TOP genes: a translationally controlled class of genes including those coding for ribosomal proteins. Amaldi F, et al. **Prog Mol Subcell Biol** 1997;18:1-17 (70 ref.)

3' untranslated regions of c-myc and c-fos mRNAs: multifunctional elements regulating mRNA translation, degradation and subcellular localization. Veyrune JL, et al. **Prog Mol Subcell Biol** 1997;18:35-63 (160 ref.)

Activation of c-fos in the brain. Herrera DG, et al. **Prog Neurobiol** 1996 Oct;50(2-3):83-107 (265 ref.)

Neuronal-specific gene expression--the interaction of both positive and negative transcriptional regulators. Quinn JP. **Prog Neurobiol** 1996 Nov;50(4):363-79 (100 ref.)

Hormonal and cell-specific regulation of the human growth hormone and chorionic somatomammotropin genes. Eberhardt NL, et al. **Prog Nucleic Acid Res Mol Biol** 1996; 54:127-63 (180 ref.)

Role of translation initiation factor eIF-2B in the regulation of protein synthesis in mammalian cells. Kimball SR, et al. **Prog Nucleic Acid Res Mol Biol** 1996;54:165-96 (106 ref.)

The role of mRNA stability in the control of globin gene expression. Russell JE, et al. **Prog Nucleic Acid Res Mol Biol** 1997;57:249-87 (99 ref.)

Serum- and polypeptide growth factor-inducible gene expression in mouse fibroblasts. Winkles JA. **Prog Nucleic Acid Res Mol Biol** 1998;58:41-78 (276 ref.)

Molecular regulation of cytokine gene expression: interferon-gamma as a model system. Young HA, et al. **Prog Nucleic Acid Res Mol Biol** 1997;56:109-27 (82 ref.)

Rat kidney thromboxane synthase: cDNA cloning and gene expression regulation in hydronephrotic kidney. Tsutsumi E, et al. **Prostaglandins** 1997 Jun;53(6):423-31

Regulation of FAT/CD36 gene expression: further evidence in support of a role of the protein in fatty acid binding/transport. Sfeir Z, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):17-21

Abnormal prostate development in C3(1)-bcl-2 transgenic mice. Zhang X, et al. **Prostate** 1997 Jun 15;32(1):16-26

Single-step purification of two functional human apolipoprotein E variants hyperexpressed in Escherichia coli. Pillot T, et al. **Protein Expr Purif** 1996 Jun;7(4):407-14

Oxygen and genes in health and disease [editorial] Pugh CW. **QJM** 1997 May;90(5):307-10

Delayed expression of lethal mutations and genomic instability in the progeny of human epithelial cells that survived in a bystander-killing environment. Seymour CB, et al. **Radiat Oncol Investig** 1997;5(3):106-10

Spectra of X-ray-induced and spontaneous intragenic HPRT mutations in closely related human cells differentially expressing the p53 tumor suppressor gene. Phillips EN, et al. **Radiat Res** 1997 Feb;147(2):138-47

The multifunctional role of the co-activator CBP in transcriptional regulation. Goldman PS, et al. **Recent Prog Horm Res** 1997;52:103-19; discussion 119-20 (83 ref.)

Brain gonadotropin releasing hormone receptors: localization and regulation. Jennes L, et al. **Recent Prog Horm Res** 1997;52:475-90; discussion 490-1 (73 ref.)

Coupling signalling pathways to transcriptional control: nuclear factors responsive to cAMP. Tamai KT, et al. **Recent Prog Horm Res** 1997;52:121-39; discussion 139-40 (93 ref.)

Alpha 1 adrenergic receptor activation of proto-oncogene expression in arterial smooth muscle: regulation by nitric oxide and vascular injury. Okazaki M, et al. **Recept Signal Transduct** 1996;6(3-4):165-78

Signals related to glucose metabolism regulate islet amyloid polypeptide (IAPP) gene expression in human pancreatic islets. Gasa R, et al. **Regul Pept** 1997 Jan 29;68(2):99-104

Studying the central actions of angiotensin using the expression of immediate-early genes: expectations and limitations. Herbert J. **Regul Pept** 1996 Oct 8;66(1-2):13-8 (26 ref.)

Complex activation of inducible transcription factors in the brain of normotensive and spontaneously hypertensive rats following central angiotensin II administration. Lebrun CJ, et al. **Regul Pept** 1996 Oct 8;66(1-2):19-23 (33 ref.)

Angiotensin-related induction of immediate early genes in rat brain. Rowland NE, et al. **Regul Pept** 1996 Oct 8; 66(1-2):25-9 (35 ref.)

Evidence for developmentally regulated transcriptional, translational and post-translational control of metallothionein gene expression in hair follicles. Nishimura N, et al. **Reprod Fertil Dev** 1996;8(7):1089-96

Regulation of mRNA encoding low density lipoprotein receptor and high density lipoprotein-binding protein in ovine corpora lutea. Tandeski TR, et al. **Reprod Fertil Dev** 1996;8(7):1107-14

Visna-maedi virus-induced expression of interleukin-8 gene in sheep alveolar cells following experimental in vitro and in vivo infection. Legastelois I, et al. **Res Virol** 1996 Mar-Jun;147(2-3):191-7

Ha-ras in normal and tumoral tissues: structure, function and regulation. Solanas M, et al. **Rev Esp Fisiol** 1996 Sep; 52(3):173-92 (128 ref.)

Pathogenesis of scleroderma. Collagen. Jimenez SA, et al. **Rheum Dis Clin North Am** 1996 Nov;22(4):647-74 (195 ref.)

The expression cassette determines the functional activity of ribozymes in mammalian cells by controlling their intracellular localization. Bertrand E, et al. **RNA** 1997 Jan; 3(1):75-88

Reduced expression of the interferon-gamma messenger RNA in IgG2 deficiency. Kondo N, et al. **Scand J Immunol** 1997 Feb;45(2):227-30

Regulation of extrahepatic apolipoprotein serum amyloid A (ApoSAA) gene expression by interleukin-1 alpha alone: synthesis and secretion of ApoSAA by cultured aortic smooth muscle cells. Kumon Y, et al. **Scand J Immunol** 1997 Sep;46(3):284-91

Expression and regulation of constitutive and acute phase serum amyloid A mRNAs in hepatic and non-hepatic cell lines. Steel DM, et al. **Scand J Immunol** 1996 Nov; 44(5):493-500

Expression of the mouse interleukin-2 receptor gamma chain in insect cells using a baculovirus expression vector--comparison with the human common gamma chain. Stenroos K, et al. **Scand J Immunol** 1997 Feb; 45(2):140-4

Neuronal gene expression in the waking state: a role for the locus coeruleus. Cirelli C, et al. **Science** 1996 Nov 15; 274(5290):1211-5

STATs and gene regulation. Darnell JE Jr. **Science** 1997 Sep 12;277(5332):1630-5 (99 ref.)

Modulation of hepatic gene expression by hepatocyte nuclear factor 1. Ktistaki E, et al. **Science** 1997 Jul 4; 277(5322):109-12

Opening the way to gene activity [news] Pennisi E. **Science** 1997 Jan 10;275(5297):155-7

Backup gene may help muscles help themselves [news] Roush W. **Science** 1997 Apr 4;276(5309):35

Laser-controlled cells. Sikorski R, et al. **Science** 1997 Aug 15;277(5328):975

Firefly gene lights up lab animals from inside out [news] Taubes G. **Science** 1997 Jun 27;276(5321):1993

Correction: raloxifene response needs more than an element [letter] Yang NN, et al. **Science** 1997 Feb 28;275(5304):1249

Inducible expression and phosphorylation of coactivator BOB.1/OBF.1 in T cells [see comments] Zwilling S, et al. **Science** 1997 Jul 11;277(5323):221-5. Comment in: Science 1997 Jul 11;277(5323):193-4.

Synergy and specificity in induction of gene activity by proinflammatory cytokines: potential therapeutic targets. Spink J, et al. **Shock** 1997 Jun;7(6):405-12 (77 ref.)

Evidence that heteronuclear proteins interact with XIST RNA in vitro. Brown CJ, et al. **Somat Cell Mol Genet** 1996 Sep;22(5):403-17

Sequence requirements for Afr-2 regulation of alpha-fetoprotein gene expression during liver regeneration. Jin DK, et al. **Somat Cell Mol Genet** 1996 May;22(3):211-26

Transcriptional regulation by steroid hormones. Beato M, et al. **Steroids** 1996 Apr;61(4):240-51 (176 ref.)

Crystal structure, receptor binding, and gene regulation of 2- and 4-nitroestradiols. Palomino E, et al. **Steroids** 1996 Nov;61(11):670-6

Prolongation and enhancement of postischemic c-fos expression after fasting. Lin TN, et al. **Stroke** 1997 Feb; 28(2):412-8

Regulation of brain capillary endothelial thrombomodulin mRNA expression. Tran ND, et al. **Stroke** 1996 Dec; 27(12):2304-10; discussion 2310-1

Decreased expression of PAI-2 mRNA and protein in pregnancies complicated with intrauterine fetal growth retardation. Grancha S, et al. **Thromb Haemost** 1996 Nov; 76(5):761-7

Age and sex dependent regulation of the factor IX gene in mice. Kurachi S, et al. **Thromb Haemost** 1996 Dec; 76(6):965-9

Expression and regulation of G protein-coupled receptor kinase 5 and beta-arrestin-1 in rat thyroid FRTL5 cells. Nagayama Y, et al. **Thyroid** 1996 Dec;6(6):627-31

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 May;47(5):408-13

Polymorphic MHC class II promoters exhibit distinct expression pattern in various antigen-presenting cell lines. Janitz M, et al. **Tissue Antigens** 1997 Feb;49(2):99-106

Expression of caprine beta-lactoglobulin in the milk of transgenic mice. Ibáñez E, et al. **Transgenic Res** 1997 Jan; 6(1):69-74

Bovine alpha s1-casein gene sequences direct high level expression of human granulocyte-macrophage colony-stimulating factor in the milk of transgenic mice. Uusi-Oukari M, et al. **Transgenic Res** 1997 Jan;6(1):75-84

Secretion of unprocessed human surfactant protein B in milk of transgenic mice. Yarus S, et al. **Transgenic Res** 1997 Jan;6(1):51-7

Transgene rescue in the mammary gland is associated with transcription but does not require translation of BLG transgenes. Yull F, et al. **Transgenic Res** 1997 Jan;6(1):11-7

The regulation of membrane cofactor protein (CD46) expression in transgenic mice: the importance of the first 125 BP of the 3' untranslated region. Miyagawa S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):941-2

Selective T cell receptor Vbeta gene usage by alloreactive T cells responding to defined HLA-DR alleles. Lobashevsky A, et al. **Transplantation** 1996 Nov 15; 62(9):1332-40

Silencers and locus control regions: opposite sides of the same coin. Kamakaka RT. **Trends Biochem Sci** 1997 Apr; 22(4):124-8 (42 ref.)

Common themes in translational and transcriptional regulation. Sachs AB, et al. **Trends Biochem Sci** 1997 Jun;

22(6):189–92 (20 ref.)
Coding in noncoding frames. Facchiano A. **Trends Genet** 1996 May;12(5):168–9 (12 ref.)
Modular regulation of muscle gene transcription: a mechanism for muscle cell diversity. Firulli AB, et al. **Trends Genet** 1997 Sep;13(9):364–9 (51 ref.)
Gene expression: increasing evidence for a transcriptosome. Halle JP, et al. **Trends Genet** 1996 May;12(5):161–3 (22 ref.)
Paramutation and related allelic interactions [see comments] Hollick JB, et al. **Trends Genet** 1997 Aug;13(8):302–8 (53 ref.). Comment in: Trends Genet 1997 Aug;13(8):293–5.
Core promoters and transcriptional control. Novina CD, et al. **Trends Genet** 1996 Sep;12(9):351–5 (49 ref.)
Control of messenger RNA stability in higher eukaryotes. Ross J. **Trends Genet** 1996 May;12(5):171–5 (39 ref.)
Creating conditional mutations in mammals. Spencer DM. **Trends Genet** 1996 May;12(5):181–7 (31 ref.)
Cell-cycle regulation of gene expression by transcriptional repression. Zwicker J, et al. **Trends Genet** 1997 Jan; 13(1):3–6 (29 ref.)
The TiPS/TINS Lecture. Catecholamines: from gene regulation to neuropsychiatric disorders. Mallet J. **Trends Neurosci** 1996 May;19(5):191–6
The TiPS/TINS lecture. Catecholamines: from gene regulation to neuropsychiatric disorders. Mallet J. **Trends Pharmacol Sci** 1996 Apr;17(4):129–35 (69 ref.)
Structure, function and gene expression of epithelial mucins. Seregni E, et al. **Tumori** 1997 May-Jun;83(3):625–32 (74 ref.)
Inactivation of tumor suppressor genes and deregulation of the c-myc gene in urothelial cancer cell lines. Grimm MO, et al. **Urol Res** 1995;23(5):293–300
Introduction of wild-type p53 gene downregulates the expression of H-ras gene and suppresses the growth of bladder cancer cells. Li M, et al. **Urol Res** 1995; 23(5):311–314
Transactivation of dianthin transgene expression by African cassava mosaic virus AC2. Hong Y, et al. **Virology** 1997 Feb 17;228(2):383–7
Modulation of stress protein (hsp27 and hsp70) expression in CD4+ lymphocytic cells following acute infection with human immunodeficiency virus type-1. Wainberg Z, et al. **Virology** 1997 Jul 7;233(2):364–73
Regulation of p53 gene expression by a poxviral transcription factor. Wali A, et al. **Virology** 1996 Oct 1;224(1):63–72
Regulatory properties of the integrated long terminal repeat of the feline immunodeficiency virus. Ikeda Y, et al. **Virus Res** 1996 Apr;41(2):201–7
A PCR-RFLP method for the detection of activated H-ras oncogene with a point mutation at codon 12 and 61. Hong SJ, et al. **Yonsei Med J** 1996 Dec;37(6):371–9
[Erythropoietin gene: regulation and therapeutic concern] Dalle B, et al. **Hematol Cell Ther** 1997 Apr;39(2):109–13 (15 ref.) (Eng. Abstr.) **(Fre)**
[1997 Maurice Dérot. Transcriptional regulation of the insulin gene: a step toward gene therapy of diabetes] Cerasi E, et al. **Journ Annu Diabetol Hotel Dieu** 1997;:299–304 (15 ref.) **(Fre)**
[Molecular mechanisms of globin gene regulation and disregulation] Fukumaki Y. **Nippon Rinsho** 1996 Sep; 54(9):2311–9 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Cytokine gene expression in Th1 and Th2: its molecular mechanism and clinical implication] Naito Y, et al. **Nippon Rinsho** 1997 Jun;55(6):1431–7 (19 ref.) (Eng. Abstr.) **(Jpn)**
[Regulation of osmolyte transporter gene expression by tonicity] Takenaka M, et al. **Nippon Rinsho** 1996 Oct; 54(10):2821–8 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Specific regulation of gene expression in brain by antisense oligodeoxynucleotides] Yoshikawa M, et al. **Nippon Yakurigaku Zasshi** 1997 Apr;109(4):187–91 (10 ref.) (Eng. Abstr.) **(Jpn)**
[Physiological functions of neuropeptide Y (NPY) and its gene expression] Higuchi H. **Tanpakushitsu Kakusan Koso** 1997 May;42(6):812–24 (76 ref.) **(Jpn)**
[Regulation of gene expression by oxygen] Nagao M, et al. **Tanpakushitsu Kakusan Koso** 1996 Dec;41(16):2522–31 (49 ref.) **(Jpn)**
[Gene expression controlled by neural activity] Tsuda M, et al. **Tanpakushitsu Kakusan Koso** 1997 Mar;42(4):632–42 (68 ref.) **(Jpn)**
[Biological activity of analogs of peptide hormone luliberin in the regulation of immune response of T lymphocytes] Kazakova TB, et al. **Biull Eksp Biol Med** 1996 Sep; 122(9):334–7 **(Rus)**
[A novel class of small RNP (alpha-RNP) in human cell line K-562 and coordinated control of expression of Alu-containing messenger RNA] Konstantinova IM, et al. **Dokl Akad Nauk** 1996 Sep;350(2):268–71 **(Rus)**
[A study of penetrance of Drosophila melanogaster forked gene] Kuzin AB, et al. **Dokl Akad Nauk** 1997 Jul; 355(1):137–9 **(Rus)**
[DNA vaccination and gene therapy based on transient expression of nucleic acids in human and animal somatic cells] Debabov VG. **Mol Biol (Mosk)** 1997 Mar-Apr; 31(2):209–15 (72 ref.) **(Rus)**
[Transcriptional regulation of lipid metabolism genes: description in the TRDD database] Ignat'eva EV, et al. **Mol Biol (Mosk)** 1997 Jul-Aug;31(4):684–700 (81 ref.) **(Rus)**
[Integrating knowledge on transcriptional regulation of eukaryotic genes based on information from TRANSFAC, TRRD, and COMPEL databases] Karas H, et al. **Mol Biol (Mosk)** 1997 Jul-Aug;31(4):637–46 **(Rus)**
[Transcriptional regulation of eukaryotic genes: data bases and computer analysis] Kolchanov NA. **Mol Biol (Mosk)** 1997 Jul-Aug;31(4):581–3 **(Rus)**
[Mechanisms of transcriptional regulation of erythroid specific genes] Podkolodnaia OA, et al. **Mol Biol (Mosk)** 1997 Jul-Aug;31(4):671–83 (127 ref.) **(Rus)**

DRUG EFFECTS

Antioxidant-inducible genes. Primiano T, et al. **Adv Pharmacol** 1997;38:293–328 (216 ref.)
Interleukin-7 modulates CD23 and HLA-DR expression on CD4+ T cells and promotes a Th-2 type citokine proïile. Fratazzi C, et al. **Allergol Immunopathol (Madr)** 1997 Jul-Aug;25(4):189–98
Consensus-interferon and platelet-derived growth factor adversely regulate proliferation and migration of Kaposi's sarcoma cells by control of c-myc expression. Köster R, et al. **Am J Pathol** 1996 Dec;149(6):1871–85
Cobalt but not hypoxia stimulates PDGF gene expression in rats. Bucher M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E451–7
Quantitation of mucin RNA by PCR reveals induction of both MUC2 and MUC5AC mRNA levels by retinoids. Guzman K, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L1023–8
Fos is required for EGF stimulation of the gastrin promoter. Marks P, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G942–8
Adenovirus E1A 13S gene product upregulates tumor necrosis factor gene. Metcalf JP. **Am J Physiol** 1996 Apr; 270(4 Pt 1):L535–40
Islet amyloid polypeptide and insulin gene expression are regulated in parallel by glucose in vivo in rats. Mulder H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1008–14
Molecular biology, V. Immediate early genes. Nestler EJ, et al. **Am J Psychiatry** 1997 Mar;154(3):312
Inhaled asbestos fibers induce p53 expression in the rat lung. Mishra A, et al. **Am J Respir Cell Mol Biol** 1997 Apr; 16(4):479–85
Asbestos induction of nuclear transcription factors and interleukin 8 gene regulation. Simeonova PP, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):787–95
Tetracycline-controlled gene expression system achieves high-level and quantitative control of gene expression. Yin DX, et al. **Anal Biochem** 1996 Mar 15;235(2):195–201
Mechanisms by which carbohydrates regulate expression of genes for glycolytic and lipogenic enzymes. Girard J, et al. **Annu Rev Nutr** 1997;17:325–52 (105 ref.)
Effects of steroid-free fetal serum and steroid supplementation on MUC1 gene expression in human breast cancer cell line MCF7. Botti C, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):205–8
The effect of etoposide (VP-16) on mouse L fibroblasts: modulation of stress response, growth and apoptosis genes. Sacchi CM, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3659–64
Antisense transforming growth factor-beta 1 in wound healing. Chung HT, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):257–61
The expression of alpha 6 and beta 4 integrin genes are differentially regulated by all-trans-retinoic acid (RA) in cultured human keratinocytes. Laurikainen L, et al. **Arch Dermatol Res** 1996 May;288(5–6):270–3
Colostrinine: a proline-rich polypeptide from ovine colostrum is a modest cytokine inducer in human leukocytes. Inglot AD, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):215–24
Establishment of an inducible expression system in Entamoeba histolytica. Ramakrishnan G, et al. **Arch Med Res** 1997;28 Spec No:34–5
In vivo and in vitro effects of epidermal growth factor on its receptor gene expression in rat dental follicle cells. Lin F, et al. **Arch Oral Biol** 1996 May;41(5):485–91
Oxidized LDL mediates the release of fibroblast growth factor-1. Ananyeva NM, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):445–53
Syndecan-4 is a primary-response gene induced by basic fibroblast growth factor and arterial injury in vascular smooth muscle cells. Cizmeci-Smith G, et al. **Arterioscler Thromb Vasc Biol** 1997 Jan;17(1):172–80
Dietary and genetic effects on LDL size measures in baboons. Singh AT, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec; 16(12):1448–53
Expression of the PAF receptor in human monocyte-derived macrophages is downregulated by oxidized LDL: relevance to the inflammatory phase of atherogenesis. Stengel D, et al. **Arterioscler Thromb Vasc Biol** 1997 May; 17(5):954–62
Selective inhibition of tumor necrosis factor-induced vascular cell adhesion molecule-1 gene expression by a novel flavonoid. Lack of effect on transcription factor NF-kappa B. Wölle J, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1501–8
Inhibitory effect of cholesterol oxides on low density lipoprotein receptor gene expression. Peng SK, et al. **Artery** 1996;22(2):61–79
Transcriptional regulation of the HOX4C gene by basic fibroblast growth factor on rheumatoid synovial fibroblasts. Xue C, et al. **Arthritis Rheum** 1997 Sep;40(9):1628–35
Transcriptional control of triglyceride metabolism: fibrates and fatty acids change the expression of the LPL and apo C-III genes by activating the nuclear receptor PPAR. Auwerx J, et al. **Atherosclerosis** 1996 Jul;124 Suppl:S29–37 (59 ref.)
Oxidized lipoprotein (a) induces cell adhesion molecule Mac-1 (CD 11b) and enhances adhesion of the monocytic cell line U937 to cultured endothelial cells. Ragab MS, et al. **Atherosclerosis** 1996 Jun;123(1–2):103–13
Up-regulation of UCP-2 gene expression by PPAR agonists in preadipose and adipose cells. Aubert J, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):606–11
Protein synthesis inhibitors cycloheximide and anisomycin induce interleukin-6 gene expression and activate transcription factor NF-kappaB. Faggioli L, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):507–13
Activation of the p21(Waf1/Cip1) promoter by the ets oncogene family transcription factor E1AF. Funaoka K, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):79–82
Regulation by thyroid hormone and retinoic acid of the CCAAT/enhancer binding protein alpha and beta genes during liver development. Menéndez-Hurtado A, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):605–10
Identification and characterization of a novel monocyte/macrophage differentiation-dependent gene that is responsive to lipopolysaccharide, ceramide, and lysophosphatidylcholine. Pietzsch A, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):4–9
Luteinizing hormone increases the abundance of various transcripts, independently of the androgens, in the rat prostate. Reiter E, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):108–12
BDNF gene can Be activated by Ca2+ signals without involvement of de novo AP-1 synthesis. Sano K, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):788–93
Regulation of cell cycle-related genes in rat hepatocytes by transforming growth factor beta1. Sugiyama A, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):539–43
1,25-dihydroxyvitamin D3 regulates the expression of N-myc, c-myc, protein kinase C, and transforming growth factor-beta2 in neuroblastoma cells. Veenstra TD, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):15–8
Controlled gene expression with a reverse tetracycline-regulated retroviral vector (RTRV) system. Watsuji T, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):769–73
Regulation of cytokine-induced iNOS expression by a hairpin oligonucleotide in murine cerebral endothelial cells. Xu J, et al. **Biochem Biophys Res Commun** 1997 Jun 18; 235(2):394–7
Benzo(a)pyrene, but not 2,3,7,8-tetrachlorodibenzo-p-dioxin, alters cell proliferation and c-myc and growth factor expression in human placental choriocarcinoma JEG-3 cells. Zhang L, et al. **Biochem Biophys Res Commun** 1997 Feb 3; 231(1):117–20
Spermidine-condensed DNA and cone-shaped lipids improve delivery and expression of exogenous DNA transfer by liposomes. Ibáñez M, et al. **Biochem Cell Biol** 1996;74(5):633–43
Fibroblast growth factor-1 stimulation of quiescent NIH 3T3 cells increases G/T mismatch-binding protein expression. Donohue PJ, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):9–12
Induction of fatty acid synthase and S14 gene expression by glucose, xylitol and dihydroxyacetone in cultured rat hepatocytes is closely correlated with glucose 6-phosphate concentrations. Mourrieras F, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):345–9
Insulin and insulin-like growth factor 1 antagonize the stimulation of ob gene expression by dexamethasone in cultured rat adipose tissue. Reul BA, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):605–10
Regulation by fatty acids of angiotensinogen gene expression in preadipose cells. Safonova I, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):235–9
Short-term treatment with oleoyl-oestrone in liposomes (Merlin-2) strongly reduces the expression of the ob gene in young rats. Sanchis D, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):357–60
Interleukin 6 activates heat-shock protein 90 beta gene expression. Stephanou A, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):103–6
Insulin-like growth factor I and insulin induce adipogenic-related gene expression in fetal brown adipocyte primary cultures. Teruel T, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):627–32
Interleukin-6 is necessary, but not sufficient, for induction of the humanC-reactive protein gene in vivo. Weinhold B, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):617–21
Insulin/glucose-, pyruvate- and polyunsaturated fatty acid-responsive region(s) of rat fatty acid synthase gene promoter. Fukuda H, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):987–96
Effect of cycloheximide on the expression of LPS-inducible iNOS, IFN-beta, and IRF-1 genes in J774 macrophages. Hattori Y, et al. **Biochem Mol Biol Int** 1996 Nov; 40(5):889–96
dl-propranolol negatively regulates the transcription of proliferating cell nuclear antigen (PCNA)-gene and thereby suppresses DNA synthesis in regenerating rat liver. Hong JH, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):103–12

Apolipoprotein E gene expression in various tissues of mouse and regulation by estrogen. Srivastava RA, et al. **Biochem Mol Biol Int** 1996 Feb;38(1):91–101

Differential effects of insulin-like growth factor-1 on neonatal canine gene expression. Feng B, et al. **Biochem Mol Med** 1996 Dec;59(2):154–60

DAX1 gene expression upregulated by steroidogenic factor 1 in an adrenocortical carcinoma cell line. Vilain E, et al. **Biochem Mol Med** 1997 Jun;61(1):1–8

Activation of gene expression in cardiac myocytes by an antisense to MAP kinase phosphatase-1. Davies EL, et al. **Biochem Soc Trans** 1997 May;25(2):223S

Identification of a functional imperfect estrogen-responsive element in the 5'-promoter region of the human cathepsin D gene. Wang F, et al. **Biochemistry** 1997 Jun 24; 36(25):7793–801

Regulation of thrombospondin-1 production by angiotensin II in rat heart endothelial cells. Chua CC, et al. **Biochim Biophys Acta** 1997 Jun 27;1357(2):209–14

Tissue distribution of human gliostatin/platelet-derived endothelial cell growth factor (PD-ECGF) and its drug-induced expression. Matsukawa K, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1–2):71–82

Stimulation of immediate early gene expression by desipramine in rat brain. Dahmen N, et al. **Biol Psychiatry** 1997 Sep 1;42(5):317–23

Regional distribution and hormonal control of estrogen-dependent oviduct-specific glycoprotein messenger ribonucleic acid in the baboon (Papio anubis). Jaffe RC, et al. **Biol Reprod** 1996 Aug;55(2):421–6

Regulation of protein kinase A subunits by cyclic adenosine 3',5'-monophosphate in a mouse Sertoli cell line (MSC-1): induction of RII beta messenger ribonucleic acid is independent of continuous protein synthesis. Knutsen HK, et al. **Biol Reprod** 1996 Jul;55(1):5–10

An androgen-regulated homeobox gene expressed in rat testis and epididymis. Lindsey JS, et al. **Biol Reprod** 1996 Nov; 55(5):975–83

Expression of triosephosphate isomerase transcripts in rat testis: evidence for retinol regulation and a novel germ cell transcript. Russell DL, et al. **Biol Reprod** 1996 Jul; 55(1):11–8

Granulosa layer: primary site of regulation of plasminogen activator messenger ribonucleic acid by luteinizing hormone in the avian ovary. Tischkau SA, et al. **Biol Reprod** 1996 Jul;55(1):75–9

High-level inducible expression of visual pigments in transfected cells. Kazmi MA, et al. **Biotechniques** 1996 Aug; 21(2):304–11

Establishment of stable cell lines expressing potentially toxic proteins by tetracycline-regulated and epitope-tagging methods. Wu SY, et al. **Biotechniques** 1996 Oct; 21(4):718–22, 724–5

Interleukin-2 (IL-2) upregulates BAG-1 gene expression through serine-rich region within IL-2 receptor beta c chain. Adachi M, et al. **Blood** 1996 Dec 1;88(11):4118–23

Cyclosporine a inhibits tissue factor expression in monocytes/macrophages. Hölschermann H, et al. **Blood** 1996 Nov 15;88(10):3837–45

Regulation of plasminogen gene expression by interleukin-6. Jenkins GR, et al. **Blood** 1997 Apr 1;89(7):2394–403

Engagement of the Lewis X antigen (CD15) results in monocyte activation. Lo SK, et al. **Blood** 1997 Jan 1; 89(1):307–14

Interleukin-13 in combination with CD40 ligand potently inhibits apoptosis in human B lymphocytes: upregulation of Bcl-xL and Mcl-1. Løvmo J, et al. **Blood** 1997 Jun 15; 89(12):4415–24

Induction of gamma-globin by histone deacetylase inhibitors. McCaffrey PG, et al. **Blood** 1997 Sep 1;90(5):2075–83

Two distinct pathways of interleukin-5 synthesis in allergen-specific human T-cell clones are suppressed by glucocorticoids. Mori A, et al. **Blood** 1997 Apr 15; 89(8):2891–900

E3, a hematopoietic-specific transcript directly regulated by the retinoic acid receptor alpha. Scott LM, et al. **Blood** 1996 Oct 1;88(7):2517–30

In vitro expansion of hematopoietic progenitor cells induces functional expression of Fas antigen (CD95). Takenaka K, et al. **Blood** 1996 Oct 15;88(8):2871–7

Recombinant human eotaxin induces oxygen radical production, Ca(2+)-mobilization, actin reorganization, and CD11b upregulation in human eosinophils via a pertussis toxin-sensitive heterotrimeric guanine nucleotide-binding protein. Tenscher K, et al. **Blood** 1996 Oct 15;88(8):3195–9

Characterization of cis-acting sequences and trans-acting signals regulating early growth response 1 and c-fos promoters through the granulocyte-macrophage colony-stimulating factor receptor in BA/F3 cells. Watanabe S, et al. **Blood** 1997 Feb 15;89(4):1197–206

Interleukin-10 increases Bcl-2 expression and survival in primary human CD34+ hematopoietic progenitor cells. Weber-Nordt RM, et al. **Blood** 1996 Oct 1;88(7):2549–58

Hepatocyte growth factor and its actions in growth plate chondrocytes. Grumbles RM, et al. **Bone** 1996 Sep; 19(3):255–61

Systemic administration of an anabolic dose of prostaglandin E2 induces early-response genes in rat bones. Weinreb M, et al. **Bone** 1997 Apr;20(4):347–53

Effect of amlodipine on renin secretion and renin gene expression in rats. Schricker K, et al. **Br J Pharmacol** 1996 Oct;119(4):744–50

Serotonin depletion exacerbates changes in striatal gene expression following quinolinic acid injection. Cummings TJ, et al. **Brain Res** 1996 Dec 16;743(1–2):240–8

Opiate withdrawal increases ProTRH gene expression in the ventrolateral column of the midbrain periaqueductal gray. Légrádi G, et al. **Brain Res** 1996 Aug 5;729(1):10–19

Chronic cocaine increases neurotensin gene expression in the shell of the nucleus accumbens and in discrete regions of the striatum. Betancur C, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):334–40

The rat galanin-gene promoter: response to members of the nuclear hormone receptor family, phorbol ester and forskolin. Corness JD, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):11–23

Differential effects of clozapine and haloperidol on dopamine receptor mRNA expression in rat striatum and cortex. Damask SP, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1–2):241–9

Regulation of androgen receptor mRNA expression in hamster facial motoneurons: differential effects of non-aromatizable and aromatizable androgens. Drengler SM, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):8–15

Adrenalectomy enhances pro-inflammatory cytokines gene expression, in the spleen, pituitary and brain of mice in response to lipopolysaccharide. Goujon E, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):53–62

Effects of pituitary adenylate cyclase-activating polypeptide (PACAP) on gonadotropin-releasing hormone and somatostatin gene expression in the rat brain. Li S, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):157–62

Demonstration of a second pharmacologically active promoter region in the NGF gene that induces transcription at exon 3. Racke MM, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):192–9

Effects of dexfenfluramine or 5,7-dihydroxytryptamine on tryptophan hydroxylase and serotonin transporter mRNAS in rat dorsal raphe. Semple-Rowland SL, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):121–7

Effect of morphine on proopiomelanocortin gene expression and peptide levels in the hypothalamus. Wardlaw SL, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):140–7

Bone morphogenetic protein 2 (BMP-2) enhances BMP-3, BMP-4, and bone cell differentiation marker gene expression during the induction of mineralized bone matrix formation in cultures of fetal rat calvarial osteoblasts. Chen D, et al. **Calcif Tissue Int** 1997 Mar;60(3):283–90

Chicken parathyroid hormone gene expression in response to gastrin, omeprazole, ergocalciferol, and restricted food intake. Gagnemo-Persson R, et al. **Calcif Tissue Int** 1997 Sep;61(3):210–5

Oral calcium transiently increases calbindin9k gene expression in adult rat duodena. Lemay J, et al. **Calcif Tissue Int** 1997 Jan;60(1):43–7

H-ras transfection of the rat kidney cell line NRK-52E results in increased induction of c-fos, c-jun and hsp70 following sulofenur treatment. Gu H, et al. **Cancer Lett** 1996 Sep 10;106(2):199–205

Tamoxifen down-regulates CD36 messenger RNA levels in normal and neoplastic human breast tissues. Silva ID, et al. **Cancer Res** 1997 Feb 1;57(3):378–81

Disruption of transcription in vitro and gene expression in vivo by DNA adducts derived from a benzo[a]pyrene diol epoxide located in heterologous sequences. Butler AP, et al. **Carcinogenesis** 1997 Feb;18(2):239–44

Identification of genes whose expression is altered during mitosuppression in livers of ethinyl estradiol-treated female rats. Chen J, et al. **Carcinogenesis** 1996 Dec;17(12):2783–6

Asbestos promotes morphological transformation and elevates expression of a gene family invariably induced by tumor promoters in C3H/10T1/2 cells. Parfett CL, et al. **Carcinogenesis** 1996 Dec;17(12):2719–26

Isolation of cDNAs representing dithiolethione-responsive genes. Primiano T, et al. **Carcinogenesis** 1996 Nov; 17(11):2297–303

Histomorphological and immunohistochemical characterization of colonic aberrant crypt foci in rats: relationship to growth factor expression. Thorup I. **Carcinogenesis** 1997 Mar;18(3):465–72

Reversible intercellular coupling by regulated expression of a gap junction channel gene. Fishman GI, et al. **Cell Adhes Commun** 1995 Nov;3(4):353–65

Large induction of c-Myc is not essential for the mitogenic response of Swiss 3T3 fibroblasts. Mehmet H, et al. **Cell Growth Differ** 1997 Feb;8(2):187–93

Regulation of retinoid-induced differentiation in embryonal carcinoma PCC4.aza1R cells: effects of retinoid-receptor selective ligands. Mills KJ, et al. **Cell Growth Differ** 1996 Mar;7(3):327–37

Phosphatidylinositol 3-kinase inhibitor wortmannin blocks mitogenic activation of the transferrin receptor gene promoter in late G1. Miskimins WK, et al. **Cell Growth Differ** 1997 May;8(5):565–70

Overexpression of the nerve growth factor-inducible PC3 immediate early gene is associated with growth inhibition. Montagnoli A, et al. **Cell Growth Differ** 1996 Oct; 7(10):1327–36

The apoptosis and proliferation of SAC-activated B cells by IL-10 are associated with changes in Bcl-2, Bcl-xL, and Mcl-1 expression. Li L, et al. **Cell Immunol** 1997 May 25;178(1):33–41

Estrogen control of central neurotransmission: effect on mood, mental state, and memory. Fink G, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):325–44 (87 ref.)

Dopamine-mediated activation of the human progesterone receptor. Philpott AJ, et al. **Cell Mol Neurobiol** 1996 Jun; 16(3):417–20

Stress dose-dependent suppression of heat shock protein gene expression by inhibiting protein synthesis during heat shock treatment. Mizuno S, et al. **Cell Struct Funct** 1997 Feb; 22(1):7–13

Dimethyl formamide (DMFA) and ethylene glycol (EG) are estrogenic in rainbow trout. Ren L, et al. **Chem Biol Interact** 1996 Sep 27;102(1):63–7 (6 ref.)

Rapamycin inhibits alpha 1-adrenergic receptor-stimulated cardiac myocyte hypertrophy but not activation of hypertrophy-associated genes. Evidence for involvement of p70 S6 kinase. Boluyt MO, et al. **Circ Res** 1997 Aug; 81(2):176–86

Angiotensin II and serum differentially regulate expression of cyclins, activity of cyclin-dependent kinases, and phosphorylation of retinoblastoma gene product in neonatal cardiac myocytes. Sadoshima J, et al. **Circ Res** 1997 Feb; 80(2):228–41

Ceramide is not a signal for tumor necrosis factor-induced gene expression but does cause programmed cell death in human vascular endothelial cells. Slowik MR, et al. **Circ Res** 1996 Oct;79(4):736–47

HLA class II antigens and T lymphocytes in human nasal epithelial cells. Modulation of the HLA class II gene transcripts by gamma interferon. Wang D, et al. **Clin Exp Allergy** 1997 Mar;27(3):306–14

Inhibition of IL-8 gene expression in Caco-2 cells by compounds which induce histone hyperacetylation. Huang N, et al. **Cytokine** 1997 Jan;9(1):27–36

Modulation of IL-1-induced chemokine expression in human mesangial cells through alterations in redox status. Rovin BH, et al. **Cytokine** 1997 Mar;9(3):178–86

Selective regulation of cardiomyocyte gene expression and cardiac morphogenesis by retinoic acid. Dickman ED, et al. **Dev Dyn** 1996 May;206(1):39–48

Regulation of cyclooxygenase gene expression in rat endometrial stromal cells: the role of epidermal growth factor. Bany BM, et al. **Dev Genet** 1997;21(1):109–15

Reduced expression of the leptin gene (ob) by catecholamine through a G(S) protein-coupled pathway in 3T3-L1 adipocytes. Kosaki A, et al. **Diabetes** 1996 Dec; 45(12):1744–9

Islet amyloid polypeptide (amylin) and insulin are differentially expressed in chronic diabetes induced by streptozotocin in rats [published erratum appears in Diabetologia 1996 Aug;39(8):1004] Mulder H, et al. **Diabetologia** 1996 Jun;39(6):649–57

Murine endodermal F9E cells, derived from the teratocarcinoma line F9, contain high basal levels of retinoic acid receptors (RARs and RXRs) but are not sensitive to the actions of retinoic acid. Wan YJ, et al. **Differentiation** 1996 Jul;60(4):211–8

Induction of interleukin-2 receptor alpha gene by delta9-tetrahydrocannabinol is mediated by nuclear factor kappaB and CB1 cannabinoid receptor. Daaka Y, et al. **DNA Cell Biol** 1997 Mar;16(3):301–9

Regulation of tissue inhibitor of metalloproteinases-3 gene expression by transforming growth factor-beta and dexamethasone in bovine and human articular chondrocytes. Su S, et al. **DNA Cell Biol** 1996 Dec; 15(12):1039–48

Calcium regulates human CYP11B2 transcription. Clyne CD, et al. **Endocr Res** 1996 Nov;22(4):485–92

Adrenocorticotropin regulates the level of the steroidogenic acute regulatory (StAR) protein mRNA in hamster adrenals. Fleury A, et al. **Endocr Res** 1996 Nov; 22(4):515–20

Mechanisms of ACTH(cAMP)-dependent transcription of adrenal steroid hydroxylases. Waterman MR, et al. **Endocr Res** 1996 Nov;22(4):615–20 (13 ref.)

Regulation of the rat proopiomelanocortin gene expression in AtT-20 cells. II: Effects of the pituitary adenylate cyclase-activating polypeptide and vasoactive intestinal polypeptide. Aoki Y, et al. **Endocrinology** 1997 May; 138(5):1930–4

Regulation of the rat proopiomelanocortin gene expression in AtT-20 cells. I: Effects of the common secretagogues. Aoki Y, et al. **Endocrinology** 1997 May;138(5):1923–9

Regulation of porcine granulosa cell steroidogenic acute regulatory protein (StAR) by insulin-like growth factor I: synergism with follicle-stimulating hormone or protein kinase A agonist. Balasubramanian K, et al. **Endocrinology** 1997 Jan;138(1):433–9

Cloning, novel promoter sequence, and estrogen regulation of a rat oxytocin receptor gene. Bale TL, et al. **Endocrinology** 1997 Mar;138(3):1151–8

Differential regulation of the growth hormone receptor gene: effects of dexamethasone and estradiol. Bennett PA, et al. **Endocrinology** 1996 Sep;137(9):3891–6

Androgen receptor-mediated antagonism of estrogen-dependent low density lipoprotein receptor transcription in cultured hepatocytes. Croston GE, et al. **Endocrinology** 1997 Sep;138(9):3779–86

Glucocorticoid regulation of hepatic S-adenosylmethionine synthetase gene expression. Gil B, et al. **Endocrinology** 1997 Mar;138(3):1251–8

The cellular protooncogenes c-fos and egr-1 are regulated by prostacyclin in rodent osteoblasts and fibroblasts. Glantschnig H, et al. **Endocrinology** 1996 Nov;

137(11):4536–41

Regulation by thyroid-stimulating hormone of sodium/iodide symporter gene expression and protein levels in FRTL-5 cells. Kogai T, et al. **Endocrinology** 1997 Jun;138(6):2227–32

Thyroid hormone controls the expression of insulin-like growth factor I receptor gene at different levels in lung and heart of developing and adult rats. Moreno B, et al. **Endocrinology** 1997 Mar;138(3):1194–203

Ca(2+)-regulated expression of aldosterone synthase is mediated by calmodulin and calmodulin-dependent protein kinases. Pezzi V, et al. **Endocrinology** 1997 Feb;138(2):835–8

Neonatal estrogen exposure up-regulates estrogen receptor expression in the developing and adult rat prostate lobes. Prins GS, et al. **Endocrinology** 1997 May;138(5):1801–9

Corticotropin-releasing hormone and proopiomelanocortin gene expression is altered selectively in the male rat fetal thymus by maternal alcohol consumption. Revskoy S, et al. **Endocrinology** 1997 Jan;138(1):389–96

Thyroid-stimulating hormone-induced down-regulation of thyroid transcription factor 1 in rat thyroid FRTL-5 cells. Saito T, et al. **Endocrinology** 1997 Feb;138(2):602–6

Regulation of endothelin production and secretion in cultured collecting duct cells by endogenous transforming growth factor-beta. Schnermann JB, et al. **Endocrinology** 1996 Nov;137(11):5000–8

Steroid-involved transcriptional regulation of human genes encoding prostatic acid phosphatase, prostate-specific antigen, and prostate-specific glandular kallikrein. Shan JD, et al. **Endocrinology** 1997 Sep;138(9):3764–70

Transient stimulation of myelin basic protein gene expression in differentiating cultured oligodendrocytes: a model for 3,5,3'-triiodothyronine-induced brain development. Strait KA, et al. **Endocrinology** 1997 Feb;138(2):635–41

Regulation by calcitonin and glucocorticoids of calcitonin receptor gene expression in mouse osteoclasts [see comments] Wada S, et al. **Endocrinology** 1997 Feb; 138(2):521–9. Comment in: Endocrinology 1997 Feb;138(2):519–20.

Regulation of prostaglandin endoperoxide H synthase 1 and 2 by estradiol and progesterone in nonpregnant ovine myometrium and endometrium in vivo. Wu WX, et al. **Endocrinology** 1997 Sep;138(9):4005–12

Regulation of c-jun gene expression in endothelial cells by the protein kinase inhibitor staurosporine. Bandyopadhyay RS, et al. **Endothelium** 1997;5(2):95–105

A plasmid for the quantification of the CD21 human interferon-alpha receptor expression by PCR. Illges H, et al. **Eur Cytokine Netw** 1996 Sep;7(3):375–6

Role of c-Jun and proximal phorbol 12-myristate-13-acetate-(PMA)-responsive elements in the regulation of basal and PMA-stimulated plasminogen-activator inhibitor-1 gene expression in HepG2. Arts J, et al. **Eur J Biochem** 1996 Oct 15; 241(2):393–402

Antioxidants as well as oxidants activate c-fos via Ras-dependent activation of extracellular-signal-regulated kinase 2 and Elk-1. Müller JM, et al. **Eur J Biochem** 1997 Feb 15;244(1):45–52

The anxiolytics CI-988 and chlordiazepoxide fail to reduce immediate early gene mRNA stimulation following exposure to the rat elevated X-maze. Hinks GL, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):153–61

Differential response of mesoderm- and neural crest-derived smooth muscle to TGF-beta1: regulation of c-myb and alpha1 (I) procollagen genes. Gadson PF Jr, et al. **Exp Cell Res** 1997 Feb 1;230(2):169–80

CSF-1-induced and constitutive Il6 gene expression in mouse macrophages: evidence for PKC-dependent and -independent pathways. Kamdar SJ, et al. **Exp Cell Res** 1997 May 1;232(2):439–42

Bone morphogenetic protein-6 is expressed in nonparenchymal liver cells and upregulated by transforming growth factor-beta 1. Knittel T, et al. **Exp Cell Res** 1997 May 1;232(2):263–9

Hyperosmotic stress as a stimulant for proinflammatory cytokine production. Shapiro L, et al. **Exp Cell Res** 1997 Mar 15;231(2):354–62

Differential modulation of IL-8 and TNF-alpha expression in human keratinocytes by buflomedil chlorhydrate and pentoxifylline. Redondo P, et al. **Exp Dermatol** 1997 Aug; 6(4):186–94

Propiomelanocortin (POMC) gene expression by normal skin and keloid fibroblasts in culture: modulation by cytokines. Teofoli P, et al. **Exp Dermatol** 1997 Jun;6(3):111–5

Control of Drosophila opsin gene expression by carotenoids and retinoic acid: northern and western analyses. Picking WL, et al. **Exp Eye Res** 1996 Nov;63(5):493–500

Transforming growth factor-beta 1 regulates the expression of Pax-2, a developmental control gene, in renal tubule cells. Liu S, et al. **Exp Nephrol** 1997 Jul–Aug;5(4):295–300

Enhancement of the behavioral response to apomorphine administration following repeated treatment in the 6-hydroxydopamine-lesioned rat is temporally correlated with a rise in striatal preproenkephalin-B, but not preproenkephalin-A, gene expression. Duty S, et al. **Exp Neurol** 1997 Apr;144(2):423–32

NMDA receptor overstimulation triggers a prolonged wave of immediate early gene expression: relationship to excitotoxicity. Shan Y, et al. **Exp Neurol** 1997 Apr; 144(2):406–15

Cytochromes P450 12: diversity of ACTH (cAMP)-dependent transcription of bovine steroid hydroxylase genes. Waterman MR, et al. **FASEB J** 1997 May;11(6):419–27 (42 ref.)

Fenofibrate differently alters expression of genes encoding ATP-binding transporter proteins of the peroxisomal membrane. Albet S, et al. **FEBS Lett** 1997 Apr 1; 405(3):394–7

Evidence for a novel regulatory pathway activated by (carba)prostacyclin in preadipose and adipose cells. Aubert J, et al. **FEBS Lett** 1996 Nov 11;397(1):117–21

Modulation of cholinergic locus expression by glucocorticoids and retinoic acid is cell-type specific. Berse B, et al. **FEBS Lett** 1997 Jun 30;410(2-3):175–9

Nitric oxide synthase isoform III gene expression in rat liver is up-regulated by lipopolysaccharide and lipoteichoic acid. Bucher M, et al. **FEBS Lett** 1997 Aug 4;412(3):511–4

Analysis of connexin43 gene expression induced by retinoic acid in F9 teratocarcinoma cells. Clairmont A, et al. **FEBS Lett** 1996 Nov 11;397(1):22–4

Channel activators regulate ATP-sensitive potassium channel (KIR6.1) expression in chick cardiomyocytes. Lu C, et al. **FEBS Lett** 1997 Jul 21;412(1):121–5

Regulation of leptin receptor and NPY gene expression in hypothalamus of leptin-treated obese (ob/ob) and cold-exposed lean mice. Mercer JG, et al. **FEBS Lett** 1997 Feb 3;402(2-3):185–8

9-cis-retinoic acid enhances fatty acid-induced expression of the liver fatty acid-binding protein gene. Poirier H, et al. **FEBS Lett** 1997 Aug 4;412(3):480–4

Repression of interleukin-6 gene expression by 17 beta-estradiol: inhibition of the DNA-binding activity of the transcription factors NF-IL6 and NF-kappa B by the estrogen receptor. Ray P, et al. **FEBS Lett** 1997 Jun 2; 409(1):79–85

Roles of purine nucleotides and adenosine in enhancing NOS II gene expression in interleukin-1 beta-stimulated rat vascular smooth muscle cells. Seo HG, et al. **Free Radic Res** 1997 May;26(5):409–18

Interleukin 4 acts as an inducer of decay-accelerating factor gene expression in human intestinal epithelial cells. Andoh A, et al. **Gastroenterology** 1996 Oct;111(4):911–8

Tumor necrosis factor alpha inhibits collagen alpha 1(I) gene expression in rat hepatic stellate cells through a G protein. Hernández-Muñoz I, et al. **Gastroenterology** 1997 Aug; 113(2):625–40

Transcriptional regulation of tracheo-bronchial mucin (TBM) gene by ethanol. Verma M, et al. **Gene** 1997 Apr 11;189(1):9–12

Employment of the mdr1 promoter for the chemotherapy-inducible expression of therapeutic genes in cancer gene therapy. Walther W, et al. **Gene Ther** 1997 Jun;4(6):544–52

The human GATA-6 gene: structure, chromosomal location, and regulation of expression by tissue-specific and mitogen-responsive signals. Suzuki E, et al. **Genomics** 1996 Dec 15;38(3):283–90

Influence of hypoxia and hypoxia-reoxygenation on endothelial P-selectin expression. Closse C, et al. **Haemostasis** 1996 Oct;26 Suppl 4:177–81

Regulation of tissue factor gene expression in human monocytic and endothelial cells. Mackman N. **Haemostasis** 1996;26 Suppl 1:17–9 (20 ref.)

Induction of cMrp/cMoat gene expression by cisplatin, 2-acetylaminofluorene, or cycloheximide in rat hepatocytes. Kauffmann HM, et al. **Hepatology** 1997 Oct; 26(4):980–5

TAXI/UAS: A molecular switch to control expression of genes in vivo. Delort JP, et al. **Hum Gene Ther** 1996 May 1;7(7):809–20

Regulation of bcl-2 and fas expression in primary activation of human peripheral lymphocytes is not sensitive to dexamethasone or cyclosporin-A. Sfikakis PP, et al. **Hum Immunol** 1996 Oct;50(2):121–6

Differential regulation of angiotensinogen transcripts after renin infusion. Milsted A, et al. **Hypertension** 1996 Oct; 28(4):678–81

Downregulation of renin gene expression by interleukin-1. Petrovic N, et al. **Hypertension** 1997 Aug;30(2 Pt 1):230–5

Opposite regulation of Gax homeobox expression by angiotensin II and C-type natriuretic peptide. Yamashita J, et al. **Hypertension** 1997 Jan;29(1 Pt 2):381–7

7,8-Dihydroneopterin upregulates interferon-gamma promoter in T cells. Baier-Bitterlich G, et al. **Immunobiology** 1996;196(4):350–5

Galectin-3 inhibits granulocyte-macrophage colony-stimulating factor (GM-CSF)-driven rat bone marrow cell proliferation and GM-CSF-induced gene transcription. Krugluger W, et al. **Immunobiology** 1997 Jun; 197(1):97–109

Suppression of LPS-induced tumor necrosis factor-alpha gene expression by microtubule disrupting agents. Li Z, et al. **Immunobiology** 1996 Oct;195(4-5):640–54

Benzoyl peroxide modulates gene expression by epigenetic mechanism in mouse epidermal JB6 cells. Singh N, et al. **Indian J Exp Biol** 1996 Jul;34(7):647–51

Lipopolysaccharide and monophosphoryl lipid A differentially regulate interleukin-12, gamma interferon, and interleukin-10 mRNA production in murine macrophages. Salkowski CA, et al. **Infect Immun** 1997 Aug; 65(8):3239–47

Effects of insulin, dexamethasone and cytokines on alpha 1-acid glycoprotein gene expression in primary cultures of normal rat hepatocytes. Barraud B, et al. **Inflammation** 1996 Apr;20(2):191–202

Comparative effect of C3a and C5a on adhesion molecule expression on neutrophils and endothelial cells. Foreman KE, et al. **Inflammation** 1996 Feb;20(1):1–9

Inhibition of leukotriene formation and IL-8 release by the paf-receptor antagonist SM-12502. Hilger RA, et al. **Inflammation** 1996 Feb;20(1):57–70

Nitric oxide enhances 12-HETE versus LTB4 generation in pancreatic transplantation. Hotter G, et al. **Inflammation** 1996 Feb;20(1):23–31

Effect of the PAF-receptor antagonist SM-12502 on human platelets. Köller M, et al. **Inflammation** 1996 Feb; 20(1):71–85

Homologous serum increases fibronectin expression and cell adhesion in airway smooth muscle cells. Shiels IA, et al. **Inflammation** 1996 Aug;20(4):373–87

Inflammatory cytokine production induced by an analogue of muramyl dipeptide MDP-Lys(L18) in rat macrophage cultures and dog synovial fluid. Sugawara T, et al. **Inflammation** 1996 Feb;20(1):43–56

The intratracheal administration of endotoxin: X. Dexamethasone downregulates neutrophil emigration and cytokine expression in vivo. Yi ES, et al. **Inflammation** 1996 Apr;20(2):165–75

Estriol: a potent regulator of TNF and IL-6 expression in a murine model of endotoxemia. Zuckerman SH, et al. **Inflammation** 1996 Dec;20(6):581–97

Effects of phosphatidylinositol-3-kinase inhibitors on degranulation and gene induction in allergically triggered mouse mast cells. Pendl GG, et al. **Int Arch Allergy Immunol** 1997 Apr;112(4):392–9

Induction of the high-affinity IgE receptor (Fc epsilon RI) on human mast cells by IL-4. Toru H, et al. **Int Immunol** 1996 Sep;8(9):1367–73

Proteinase 3, the major autoantigen of Wegener's granulomatosis, enhances IL-8 production by endothelial cells in vitro. Berger SP, et al. **J Am Soc Nephrol** 1996 May;7(5):694–701

Effect of recombinant human insulin-like growth factor-1 on the inflammatory response to acute renal injury. Goes N, et al. **J Am Soc Nephrol** 1996 May;7(5):710–20

Captopril reverses high-glucose-induced growth effects on LLC-PK1 cells partly by decreasing transforming growth factor-beta receptor protein expressions. Guh JY, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1207–15

Modulation of renal kallikrein production by dietary protein in streptozotocin-induced diabetic rats. Jaffa AA, et al. **J Am Soc Nephrol** 1996 May;7(5):721–7

Nitric oxide suppresses increases in mesangial cell protein kinase C, transforming growth factor beta, and fibronectin synthesis induced by thromboxane. Studer RK, et al. **J Am Soc Nephrol** 1996 Jui;7(7):999–1005

Differential effects of angiotensin II and transforming growth factor beta on the production of heparan sulfate proteoglycan by mesangial cells in vitro. van Det NF, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1015–23

Regulation of vitamin D-responsive gene expression by fluorinated analogs of calcitriol in rat osteoblastic ROB-C26 cells. Miyamoto Y, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1068–76

Dysregulation of bcl-2, c-myc, and Fas expression during tricyclic antidepressant-induced apoptosis in human peripheral lymphocytes. Xia Z, et al. **J Biochem Toxicol** 1996;11(4):203–4

Tumor necrosis factor alpha induces the adenovirus early 3 promoter by activation of NF-kappaB. Deryckere F, et al. **J Biol Chem** 1996 Nov 22;271(47):30249–55

2-Aminopurine unravels a role for pRB in the regulation of gene expression by transforming growth factor beta. Giannini G, et al. **J Biol Chem** 1997 Feb 21;272(8):5313–9

Differential regulation by tumor necrosis factor-alpha of beta1-, beta2-, and beta3-adrenoreceptor gene expression in 3T3-F442A adipocytes. Hadri KE, et al. **J Biol Chem** 1997 Sep 26;272(39):24514–21

Insulin-induced egr-1 and c-fos expression in 32D cells requires insulin receptor, Shc, and mitogen-activated protein kinase, but not insulin receptor substrate-1 and phosphatidylinositol 3-kinase activation [published erratum appears in J Biol Chem 1997 Jan 31;272(5):3124] Harada S, et al. **J Biol Chem** 1996 Nov 22;271(47):30222–6

The response of renal tubular epithelial cells to physiologically and chemically induced growth arrest. Jeong JK, et al. **J Biol Chem** 1997 Mar 14;272(11):7511–8

A novel cardiac-restricted target for doxorubicin. CARP, a nuclear modulator of gene expression in cardiac progenitor cells and cardiomyocytes. Jeyaseelan R, et al. **J Biol Chem** 1997 Sep 5;272(36):22800–8

Cloning and characterization of the type I inositol 1,4,5-trisphosphate receptor gene promoter. Regulation by 17beta-estradiol in osteoblasts. Kirkwood KL, et al. **J Biol Chem** 1997 Sep 5;272(36):22425–31

Modulation of interferon action by retinoids. Induction of murine STAT1 gene expression by retinoic acid [published erratum appears in J Biol Chem 1997 Jun 20;272(25):16068] Kolla V, et al. **J Biol Chem** 1997 Apr 11;272(15):9742–8

Phorbol ester down-regulation of lung surfactant protein B gene expression by cytoplasmic trapping of thyroid transcription factor-1 and hepatocyte nuclear factor 3. Kumar AS, et al. **J Biol Chem** 1997 Aug 15; 272(33):20764–73

17beta-estradiol potently suppresses cAMP-induced insulin-like growth factor-I gene activation in primary rat

osteoblast cultures. McCarthy TL, et al. **J Biol Chem** 1997 Jul 18;272(29):18132–9

Plasminogen activator inhibitor type 2 gene induction by tumor necrosis factor and phorbol ester involves transcriptional and post-transcriptional events. Identification of a functional nonameric AU-rich motif in the 3'-untranslated region. Maurer F, et al. **J Biol Chem** 1996 Oct 18;271(42):26074–80

Endoplasmic reticulum form of calreticulin modulates glucocorticoid-sensitive gene expression. Michalak M, et al. **J Biol Chem** 1996 Nov 15;271(46):29436–45

Interferon gamma-dependent induction of human intercellular adhesion molecule-1 gene expression involves activation of a distinct STAT protein complex. Naik SM, et al. **J Biol Chem** 1997 Jan 10;272(2):1283–90

Interferon-gamma modulates a p53-independent apoptotic pathway and apoptosis-related gene expression. Ossina NK, et al. **J Biol Chem** 1997 Jun 27;272(26):16351–7

Flanking sequences for the human intercellular adhesion molecule-1 NF-kappaB response element are necessary for tumor necrosis factor alpha-induced gene expression. Paxton LL, et al. **J Biol Chem** 1997 Jun 20;272(25):15928–35

Arachidonic acid influences proinflammatory gene induction by stabilizing the inhibitor-kappaBalpha/nuclear factor-kappaB (NF-kappaB) complex, thus suppressing the nuclear translocation of NF-kappaB. Stuhlmeier KM, et al. **J Biol Chem** 1997 Sep 26;272(39):24679–83

Beta-trace gene expression is regulated by a core promoter and a distal thyroid hormone response element. White DM, et al. **J Biol Chem** 1997 May 30;272(22):14387–93

Identification and characterization of novel genes modulated in the thyroid of dogs treated with methimazole and propylthiouracil. Wilkin F, et al. **J Biol Chem** 1996 Nov 8;271(45):28451–7

Signal transduction pathways mediating parathyroid hormone stimulation of bone sialoprotein gene expression in osteoblasts. Yang R, et al. **J Biol Chem** 1996 Nov 22; 271(47):29839–46

Epidermal growth factor induces CD44 gene expression through a novel regulatory element in mouse fibroblasts. Zhang M, et al. **J Biol Chem** 1997 May 30;272(22):14139–46

Protein-DNA interactions at a drug-responsive element of the human apolipoprotein A-I gene. Zhang X, et al. **J Biol Chem** 1996 Oct 25;271(43):27152–60

NF-kappaB-mediated induction of mdr1b expression by insulin in rat hepatoma cells. Zhou G, et al. **J Biol Chem** 1997 Jun 13;272(24):15174–83

Surface adhesion molecule expression on human blood cells induced by vascular graft materials in vitro. Swartbol P, et al. **J Biomed Mater Res** 1996 Dec;32(4):669–76

Estrogen inhibits interleukin-6 production and gene expression in a human osteoblastic cell line with high levels of estrogen receptors. Kassem M, et al. **J Bone Miner Res** 1996 Feb;11(2):193–9

Parathyroid hormone regulates the expression of rat osteoblast and osteosarcoma nuclear matrix proteins. Bidwell J, et al. **J Cell Biochem** 1996 Dec 1;63(3):374–83

Neuroprotective action of cycloheximide involves induction of bcl-2 and antioxidant pathways. Furukawa K, et al. **J Cell Biol** 1997 Mar 10;136(5):1137–49

Matrigel induces thymosin beta 4 gene in differentiating endothelial cells. Grant DS, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3685–94

Tetracycline regulated expression of vimentin in fibroblasts derived from vimentin null mice. Holwell TA, et al. **J Cell Sci** 1997 Aug;110 (Pt 16):1947–56

IL-3, GM-CSF and CSF-1 modulate c-fms mRNA more rapidly in human early monocytic progenitors than in mature or transformed monocytic cells. Panterne B, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1795–801

DNA fragmentation and Prolonged expression of c-fos, c-jun, and hsp70 in kainic acid-induced neuronal cell death in transgenic mice overexpressing human CuZn-superoxide dismutase. Kondo T, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):241–56

Chronic nicotine treatment enhances focal ischemic brain injury and depletes free pool of brain microvascular tissue plasminogen activator in rats. Wang L, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):136–46

In vivo estrogen regulation of epidermal growth factor receptor in human endometrium. McBean JH, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1467–71

In vivo and in vitro evidence for iodide regulation of major histocompatibility complex class I and class II expression in Graves' disease. Schuppert F, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3622–8

Inhibition of bovine endothelial cell activation in vitro by regulated expression of a transdominant inhibitor of NF-kappa B. Anrather J, et al. **J Clin Invest** 1997 Feb 15;99(4):763–72

Transcriptional control in keratinocytes and fibroblasts using synthetic ligands. Freiberg RA, et al. **J Clin Invest** 1997 Jun 1;99(11):2610–5

Regulation of the rat liver sodium-dependent bile acid cotransporter gene by prolactin. Mediation of transcriptional activation by Stat5. Ganguly TC, et al. **J Clin Invest** 1997 Jun 15;99(12):2906–14

Triiodothyronine induces over-expression of alpha-smooth muscle actin, restricts myofibrillar expansion and is permissive for the action of basic fibroblast growth factor and insulin-like growth factor I in adult rat cardiomyocytes. Gosteli-Peter MA, et al. **J Clin Invest** 1996 Oct 15;98(8):1737–44

Insulin and insulin-like growth factor I differentially induce alpha1-adrenergic receptor subtype expression in rat vascular smooth muscle cells. Hu ZW, et al. **J Clin Invest** 1996 Oct 15;98(8):1826–34

Identification of targets of leptin action in rat hypothalamus. Schwartz MW, et al. **J Clin Invest** 1996 Sep 1;98(5):1101–6

Nerve growth factor induces galanin gene expression in the rat basal forebrain: implications for the treatment of cholinergic dysfunction. Pianas B, et al. **J Comp Neurol** 1997 Mar 24;379(4):563–70

Regulation of the gene expression of glucose transporter in liver and kidney of lactating cows by bovine growth hormone and bovine growth hormone-releasing factor. Zhao FQ, et al. **J Dairy Sci** 1996 Sep;79(9):1537–42

Regulation of interleukin-4 on collagen gene expression by systemic sclerosis fibroblasts in culture. Lee KS, et al. **J Dermatol Sci** 1996 Jun;12(2):110–7

Induction of 24-hydroxylase cytochrome P450 mRNA by 1,25-dihydroxyvitamin D and phorbol esters in normal rat kidney (NRK-52E) cells. Armbrecht HJ, et al. **J Endocrinol** 1997 May;153(2):199–205

Differential regulation of granulocyte-macrophage colony-stimulating factor mRNA and protein expression in human thyrocytes and thyroid-derived fibroblasts by interleukin-1 alpha and tumor necrosis factor-alpha. Aust G, et al. **J Endocrinol** 1996 Nov;151(2):277–85

Mediation of the hormone- and serum-dependent regulation of thyroglobulin gene expression by thyroid-transcription factors in rat thyroid FRTL-5 cells. Kambe F, et al. **J Endocrinol** 1996 Aug;150(2):287–98

Thyroid hormone and glucocorticoid regulation of pituitary growth hormone-releasing hormone receptor gene expression. Korytko AI, et al. **J Endocrinol** 1997 Feb; 152(2):R13–7

The desensitization of oxytocin receptors in human myometrial cells is accompanied by down-regulation of oxytocin receptor messenger RNA. Phaneuf S, et al. **J Endocrinol** 1997 Jul;154(1):7–18

Regulation of intestinal cholecystokinin gene expression by glucocorticoids. Ratineau C, et al. **J Endocrinol** 1996 Oct; 151(1):137–45

Temporal expression and cellular distribution of pulmonary fibronectin gene induction following exposure to an emission source particle. Su WY, et al. **J Environ Pathol Toxicol Oncol** 1995;14(3–4):215–25

A mechanism underlying synergy between IL-12 and IFN-gamma-inducing factor in enhanced production of IFN-gamma. Ahn HJ, et al. **J Immunol** 1997 Sep 1; 159(5):2125–31

Ultraviolet light suppresses IFN-gamma-induced IL-7 gene expression in murine keratinocytes by interfering with IFN regulatory factors. Aragane Y, et al. **J Immunol** 1997 Jun 1;158(11):5393–9

Tumor necrosis factor-alpha modulates the expression of its p60 receptor and several cytokines in rat tracheal epithelial cells. Bader T, et al. **J Immunol** 1996 Oct 1;157(7):3089–96

Distribution of IL-15 receptor alpha-chains on human peripheral blood mononuclear cells and effect of immunosuppressive drugs on receptor expression. Chae DW, et al. **J Immunol** 1996 Oct 1;157(7):2813–9

Cultured NK1.1+ CD4+ T cells produce large amounts of IL-4 and IFN-gamma upon activation by anti-CD3 or CD1. Chen H, et al. **J Immunol** 1997 Sep 1;159(5):2240–9

In vitro and in vivo secretion of human ISG15, an IFN-induced immunomodulatory cytokine. D'Cunha J, et al. **J Immunol** 1996 Nov 1;157(9):4100–8

Induction of IL-12 and chemokines by hyaluronan requires adhesion-dependent priming of resident but not elicited macrophages. Hodge-Dufour J, et al. **J Immunol** 1997 Sep 1;159(5):2492–500

Hydrogen peroxide-mediated transcriptional induction of macrophage colony-stimulating factor by TGF-beta1. Hong YH, et al. **J Immunol** 1997 Sep 1;159(5):2418–23

Inhibition of 5-lipoxygenase blocks IL-1 beta-induced vascular adhesion molecule-1 gene expression in human endothelial cells. Lee S, et al. **J Immunol** 1997 Apr 1; 158(7):3401–7

Interleukin-11 inhibits macrophage interleukin-12 production. Leng SX, et al. **J Immunol** 1997 Sep 1; 159(5):2161–8

IFN-gamma-induced MHC class II gene expression is suppressed in endothelial cells by dextran sulfate. Lian RH, et al. **J Immunol** 1996 Jul 15;157(2):864–73

Human monocyte binding to fibronectin enhances IFN-gamma-induced early signaling events. McCarthy JB, et al. **J Immunol** 1997 Sep 1;159(5):2424–30

Requirements for induction of vitamin D-mediated gene regulation in normal human B lymphocytes. Morgan JW, et al. **J Immunol** 1996 Oct 1;157(7):2900–8

IL-4-induced expression of the IL-1 receptor antagonist gene is mediated by STAT6. Ohmori Y, et al. **J Immunol** 1996 Sep 1;157(5):2058–65

Regulation of tissue inhibitor of metalloproteinase-1 in fibroblasts and acute phase proteins in hepatocytes in vitro by mouse oncostatin M, cardiotrophin-1, and IL-6. Richards CD, et al. **J Immunol** 1997 Sep 1;159(5):2431–7

NK cell trafficking and cytokine expression in splenic compartments after IFN induction and viral infection. Salazar-Mather TP, et al. **J Immunol** 1996 Oct 1; 157(7):3054–64

Neutrophil-activating protein ENA-78 and IL-8 exhibit different patterns of expression in lipopolysaccharide- and cytokine-stimulated human monocytes. Schnyder-Candrian S, et al. **J Immunol** 1997 Apr 15; 158(8):3888–94

Stimulus-specific inhibition of intracellular adhesion molecule-1 gene expression by TGF-beta. Shrikant P, et al. **J Immunol** 1996 Jul 15;157(2):892–900

Mouse decay-accelerating factor: selective and tissue-specific induction by estrogen of the gene encoding the glycosylphosphatidylinositol-anchored form. Song WC, et al. **J Immunol** 1996 Nov 1;157(9):4166–72

Regulation of sialoadhesin expression on rat macrophages. Induction by glucocorticoids and enhancement by IFN-beta, IFN-gamma, IL-4, and lipopolysaccharide. van den Berg TK, et al. **J Immunol** 1996 Oct 1;157(7):3130–8

TNF-induced intracellular signaling leading to gene induction or to cytotoxicity by necrosis or by apoptosis. Fiers W, et al. **J Inflamm** 1995–96;47(1–2):67–75 (27 ref.)

GAS elements: a few nucleotides with a major impact on cytokine-induced gene expression. Decker T, et al. **J Interferon Cytokine Res** 1997 Mar;17(3):121–34 (166 ref.)

NF kappa B and interferon regulatory factor 1 physically interact and synergistically induce major histocompatibility class I gene expression. Drew PD, et al. **J Interferon Cytokine Res** 1995 Dec;15(12):1037–45

Effect of a novel topical immunomodulator, S-28463, on keratinocyte cytokine gene expression and production. Fujisawa H, et al. **J Interferon Cytokine Res** 1996 Jul; 16(7):555–9

Use of messenger RNA differential display to identify interleukin-11-responsive genes in human umbilical cord blood mononuclear cells: IL-11 upregulates the expression of the hMAL gene. Ireland RC, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):829–34

Production of ISG-15, an interferon-inducible protein, in human corneal cells. Taylor JL, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):937–40

Induction of tumor necrosis factor-alpha in vivo by a skin irritant, tributyltin, through activation of transcription factors: its pharmacological modulation by anti-inflammatory drugs. Corsini E, et al. **J Invest Dermatol** 1997 Jun;108(6):892–6

Expression of apoptosis-regulatory genes in renal proximal tubular epithelial cells exposed to high ambient glucose and in diabetic kidneys. Ortiz A, et al. **J Investig Med** 1997 Feb;45(2):50–6

Regulation of cytokine and cytokine receptor expression by glucocorticoids. Almawi WY, et al. **J Leukoc Biol** 1996 Nov;60(5):563–72 (166 ref.)

Preparation of specific polyclonal antibodies to a C-C chemokine receptor, CCR1, and determination of CCR1 expression on various types of leukocytes. Su SB, et al. **J Leukoc Biol** 1996 Nov;60(5):658–66

Transcriptional and post-transcriptional regulation of LDL receptor gene expression in PMA-treated THP-1 cells by LDL-containing immune complexes. Huang Y, et al. **J Lipid Res** 1997 Jan;38(1):110–20

Activation of LDL receptor gene expression in HepG2 cells by hepatocyte growth factor. Pak YK, et al. **J Lipid Res** 1996 May;37(5):985–98

Role of the peroxisome proliferator-activated receptor (PPAR) in mediating the effects of fibrates and fatty acids on gene expression. Schoonjans K, et al. **J Lipid Res** 1996 May;37(5):907–25 (193 ref.)

Ouabain-induced hypertrophy in cultured cardiac myocytes is accompanied by changes in expression of several late response genes. Huang L, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):429–37

Glucocorticoids enhance corticotropin receptor mRNA levels in ovine adrenocortical cells. Picard-Hagen N, et al. **J Mol Endocrinol** 1997 Aug;19(1):29–36

Dexamethasone modulates insulin receptor expression and subcellular distribution of the glucose transporter GLUT 1 in UMR 106-01, a clonal osteogenic sarcoma cell line. Thomas DM, et al. **J Mol Endocrinol** 1996 Aug;17(1):7–17

Effects of sodium butyrate on glucose transporter and glucose-phosphorylating enzyme gene expression in RINm5F insulinoma cells. Tiedge M, et al. **J Mol Endocrinol** 1996 Aug;17(1):19–26

Gene expression of the human prostaglandin E receptor EP4 subtype: differential regulation in monocytoid and lymphoid lineage cells by phorbol ester. Mori K, et al. **J Mol Med** 1996 Jun;74(6):333–6

Molecular dissection of corticosteroid action in the rat hippocampus. Application of the differential display techniques. Vreugdenhil E, et al. **J Mol Neurosci** 1996 Summer;7(2):135–46 (40 ref.)

Identification of candidate genes induced by retinoic acid in embryonal carcinoma cells. Cheung WM, et al. **J Neurochem** 1997 May;68(5):1882–8

Regulation of astrocyte nitric oxide synthase type II expression by ATP and glutamate involves loss of transcription factor binding to DNA. Lin HL, et al. **J Neurochem** 1997 Aug;69(2):612–6

Thyroid hormone-regulated expression of RC3/neurogranin in the immortalized hypothalamic cell line GT1-7. Morte B, et al. **J Neurochem** 1997 Sep;69(3):902–9

Facilitation or inhibition of the estradiol-induced gonadotropin surge in the immature rat by progesterone: regulation of GnRH and LH messenger RNAs and activation of GnRH neurons. Attardi B, et al. **J Neuroendocrinol** 1997 Aug;9(8):589–99

Estradiol regulation of alpha 1b-adrenoceptor mRNA in female rat hypothalamus-preoptic area. Karkanias GB, et al. **J Neuroendocrinol** 1996 Jun;8(6):449-55

Androgens modulate glucocorticoid receptor mRNA, but not mineralocorticoid receptor mRNA levels, in the rat hippocampus. Kerr JE, et al. **J Neuroendocrinol** 1996 Jun; 8(6):439-47

Estrogen and stress interact to regulate the hypothalamic expression of a human proenkephalin promoter-beta-galactosidase fusion gene in a site-specific and sex-specific manner. Priest CA, et al. **J Neuroendocrinol** 1997 Apr;9(4):317-26

Methylprednisolone attenuates interferon-beta induced expression of HLA-DR on monocytes. Crockard AD, et al. **J Neuroimmunol** 1996 Oct;70(1):29-35

Methylazoxymethanol acetate-induced apoptosis in the external granule cell layer of the developing cerebellum of the rat is associated with strong c-Jun expression and formation of high molecular weight c-Jun complexes. Ferrer I, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):1-9

Maternal cocaine treatment alters dynorphin and enkephalin mRNA expression in brains of fetal rhesus macaques. Chai L, et al. **J Neurosci** 1997 Feb 1;17(3):1112-21

Phosphorylation of transcription factor CREB in rat spinal cord after formalin-induced hyperalgesia: relationship to c-fos induction. Ji RR, et al. **J Neurosci** 1997 Mar 1; 17(5):1776-85

Antisense oligonucleotides induce functional deletion of ligand gated ion channels in cultured neurons and brain explants. Brussaard AB. **J Neurosci Methods** 1997 Jan; 71(1):55-64 (21 ref.)

Glutamate toxicity enhances tau gene expression in neuronal cultures. Esclaire F, et al. **J Neurosci Res** 1997 Aug 1; 49(3):309-18

Differential expression of M-CSF, LIF, and TNF-alpha genes in normal and malignant rat glial cells: regulation by lipopolysaccharide and vitamin D. Furman I, et al. **J Neurosci Res** 1996 Nov 1;46(3):360-6

Inhibition of carrageenan-induced spinal c-Fos activation by systemically administered c-fos antisense oligodeoxynucleotides may be facilitated by local opening of the blood-spinal cord barrier. Gillardon F, et al. **J Neurosci Res** 1997 Mar 15;47(6):582-9

Glycosaminoglycans in nerve injury: II. Effects on transganglionic degeneration and on the expression of neurotrophic factors. Gorio A, et al. **J Neurosci Res** 1996 Dec 1;46(5):572-80

Activation of the gene encoding decay accelerating factor following nerve growth factor treatment of sensory neurons is mediated by promoter sequences within 206 bases of the transcriptional start site. Kendall G, et al. **J Neurosci Res** 1996 Jul 15;45(2):96-103

Effects of phencyclidine on immediate early gene expression in the brain. Näkki R, et al. **J Neurosci Res** 1996 Jul 1; 45(1):13-27

Effect of aluminium on expression and processing of amyloid precursor protein. Neill D, et al. **J Neurosci Res** 1996 Nov 15;46(4):395-403

Regulation of connexin-43, GFAP, and FGF-2 is not accompanied by changes in astroglial coupling in MPTP-lesioned, FGF-2-treated parkinsonian mice. Rufer M, et al. **J Neurosci Res** 1996 Dec 1;46(5):606-17

Down-regulation of the D1 and D5 dopamine receptors in the primate prefrontal cortex by chronic treatment with antipsychotic drugs. Lidow MS, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):597-603

Hydroxyurea induces the gene expression and synthesis of proinflammatory cytokines in vivo. Navarra P, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):477-82

The full D1 dopamine receptor agonist SKF-82958 induces neuropeptide mRNA in the normosensitive striatum of rats: regulation of D1/D2 interactions by muscarinic receptors. Wang JQ, et al. **J Pharmacol Exp Ther** 1997 May; 281(2):972-82

Corticotropin-releasing factor and type 1 corticotropin-releasing factor receptor messenger RNAs in rat brain and pituitary during "binge"-pattern cocaine administration and chronic withdrawal. Zhou Y, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):351-8

Phenobarbital induction of cytochrome P450 genes in primary hepatocyte and transgenic models. Omiecinski CJ. **J Toxicol Sci** 1996 Dec;21(5):279-81 (4 ref.)

1,25-dihydroxyvitamin D3 and the synthetic vitamin D analogue, KH 1060, modulate the growth of mouse proximal tubular cells. Weinreich T, et al. **Kidney Blood Press Res** 1996;19(6):325-31

Cyclosporine A regulates T cell-epithelial cell adhesion by altering LFA-1 and ICAM-1 expression. Frishberg Y, et al. **Kidney Int** 1996 Jul;50(1):45-53

Coordinate regulation of PTH/PTHrP receptors by PTH and calcitriol in UMR 106-01 osteoblast-like cells. González EA, et al. **Kidney Int** 1996 Jul;50(1):63-70

Involvement of oxidation in LDL-induced collagen gene regulation in mesangial cells. Lee HS, et al. **Kidney Int** 1996 Nov;50(5):1582-90

beta-Adrenoceptors and dexamethasone synergistically stimulate the expression of the angiotensinogen gene in opossum kidney cells. Ming M, et al. **Kidney Int** 1996 Jul; 50(1):94-101

Endothelins inhibit cyclic-AMP induced renin gene expression in cultured mouse juxtaglomerular cells. Ritthaler T, et al. **Kidney Int** 1996 Jul;50(1):108-15

Influence of interferon-alpha on cytokine expression by the bone marrow microenvironment--impact on treatment of myeloproliferative disorders. Peschel C, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:129-34 (77 ref.)

Radiation-enhanced expression of interferon-inducible genes in the KG1a primitive hematopoietic cell line. Clave E, et al. **Leukemia** 1997 Jan;11(1):114-9

Octylphenol (OP), an environmental estrogen, stimulates prolactin (PRL) gene expression. Abraham EJ, et al. **Life Sci** 1997;60(17):1457-65

delta-9-Tetrahydrocannabinol increases prodynorphin and proenkephalin gene expression in the spinal cord of the rat. Corchero J, et al. **Life Sci** 1997;61(4):PL 39-43

Estrogen and parathyroid hormone regulate insulin-like growth factor binding protein-4 in SaOS-2 cells. Kudo Y, et al. **Life Sci** 1997;61(2):165-70

Eicosapentaenoic acid, but not docosahexaenoic acid, increases mitochondrial fatty acid oxidation and upregulates 2,4-dienoyl-CoA reductase gene expression in rats. Willumsen N, et al. **Lipids** 1996 Jun;31(6):579-92

Fibronectin and fibronectin fragments modulate the expression of proteinases and proteinase inhibitors in human periodontal ligament cells. Kapila YL, et al. **Matrix Biol** 1996 Sep;15(4):251-61

Mercury-responsive gene regulation and mercury-199 as a probe of protein structure. Huffman DL, et al. **Met Ions Biol Syst** 1997;34:503-26 (61 ref.)

Coupling of the thrombin receptor to G12 may account for selective effects of thrombin on gene expression and DNA synthesis in 1321N1 astrocytoma cells. Post GR, et al. **Mol Biol Cell** 1996 Nov;7(11):1679-90

Effect of ramipril and losartan on collagen expression in right and left heart after myocardial infarction. Dixon IM, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):31-45

Potent and selective gene inhibition using antisense oligodeoxynucleotides. Flanagan WM, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):213-25

Effect of angiotensin II on myocardial collagen gene expression. Ju H, et al. **Mol Cell Biochem** 1996 Oct-Nov; 163-164:231-7

Novel Gal3 proteins showing altered Gal80p binding cause constitutive transcription of Gal4p-activated genes in Saccharomyces cerevisiae. Blank TE, et al. **Mol Cell Biol** 1997 May;17(5):2566-75

Lipopolysaccharide and Raf-1 kinase regulate secretory interleukin-1 receptor antagonist gene expression by mutually antagonistic mechanisms. Guthridge CJ, et al. **Mol Cell Biol** 1997 Mar;17(3):1118-28

Rapamycin resistance tied to defective regulation of p27Kip1. Luo Y, et al. **Mol Cell Biol** 1996 Dec;16(12):6744-51

Retinoid X receptor (RXR) within the RXR-retinoic acid receptor heterodimer binds its ligand and enhances retinoid-dependent gene expression. Minucci S, et al. **Mol Cell Biol** 1997 Feb;17(2):644-55

The rat TSHbeta gene contains distinct response elements for regulation by retinoids and thyroid hormone. Breen JJ, et al. **Mol Cell Endocrinol** 1997 Aug 8;131(2):137-46

Contrasting acute in vivo nuclear actions of growth hormone and prolactin. Le Stunff C, et al. **Mol Cell Endocrinol** 1996 Aug 9;121(2):109-17

Glucose-stimulated expressed sequence tags from rat pancreatic islets. MacDonald MJ. **Mol Cell Endocrinol** 1996 Oct 30;123(2):199-204

Serotonin regulation of gene expression in uterine extracellular matrix: reciprocal effects on collagens and collagenase. Passaretti TV, et al. **Mol Cell Endocrinol** 1996 Jul 1;120(2):125-32

Glucocorticoids regulate the expression of the stressprotein alpha B-crystallin. Scheier B, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):187-98

Partial sequencing of the rat steroidogenic acute regulatory protein message from immortalized granulosa cells: regulation by gonadotropins and isoproterenol. Selvaraj N, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):171-7

A novel regulation of the oviductal glycoprotein gene expression by luteinizing hormone in bovine tubal epithelial cells. Sun T, et al. **Mol Cell Endocrinol** 1997 Jul 4; 131(1):97-108

Differential responses to ligands of overexpressed thyroid hormone and retinoid X receptors in a Xenopus cell line and in vivo. Ulisse S, et al. **Mol Cell Endocrinol** 1997 Jan 3;126(1):17-24

Hormonal regulation of FHG22 mRNA in Syrian hamster harderian glands: role of estradiol. Varriale B, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1-2):87-96

Tissue-specific regulation by vitamin D3 of a novel protein containing ankyrin-like repeats. Xu J, et al. **Mol Cell Endocrinol** 1997 Jan 3;126(1):101-7

TNF alpha inhibits Schwann cell proliferation, connexin46 expression, and gap junctional communication. Chandross KJ, et al. **Mol Cell Neurosci** 1996 Jun;7(6):479-500

Angiotensinogen gene activation by angiotensin II is mediated by the rel A (nuclear factor-kappaB p65) transcription factor: one mechanism for the renin angiotensin system positive feedback loop in hepatocytes. Li J, et al. **Mol Endocrinol** 1996 Mar;10(3):252-64

Regulation of the murine adipocyte fatty acid transporter gene by insulin. Man MZ, et al. **Mol Endocrinol** 1996 Aug; 10(8):1021-8

Thapsigargin-induced gene expression in nonexcitable cells is dependent on calcium influx. Rodland KD, et al. **Mol Endocrinol** 1997 Mar;11(3):281-91

An adipogenic basic helix-loop-helix-leucine zipper type transcription factor (ADD1) mRNA is expressed and regulated by retinoic acid in osteoblastic cells. Sawada Y, et al. **Mol Endocrinol** 1996 Oct;10(10):1238-48

Activation of amylin gene transcription by LIM domain homeobox gene isl-1. Wang M, et al. **Mol Endocrinol** 1996 Mar;10(3):243-51

Novel accessory factor-binding site required for glucocorticoid regulation of the gamma-fibrinogen subunit gene from Xenopus laevis. Woodward RN, et al. **Mol Endocrinol** 1997 May;11(5):563-76

Phorbol ester regulation of the gonadotropin-releasing hormone (GnRH) gene in GnRH-secreting cell lines: a molecular basis for species differences. Zakaria M, et al. **Mol Endocrinol** 1996 Oct;10(10):1282-91

Effect of transforming growth factor-beta1 on expression of aryl hydrocarbon receptor and genes of Ah gene battery: clues for independent down-regulation in A549 cells. Döhr O, et al. **Mol Pharmacol** 1997 May;51(5):703-10

Glucocorticoid regulation of corticotropin-releasing factor1 receptor expression in pituitary-derived AtT-20 cells. Iredale PA, et al. **Mol Pharmacol** 1997 May;51(5):794-9

5-Hydroxytryptamine1B receptors modulate the effect of cocaine on c-fos expression: converging evidence using 5-hydroxytryptamine1B knockout mice and the 5-hydroxytryptamine1B/1D antagonist GR127935. Lucas JJ, et al. **Mol Pharmacol** 1997 May;51(5):755-63

Down-regulation of P2U-purinergic nucleotide receptor messenger RNA expression during in vitro differentiation of human myeloid leukocytes by phorbol esters or inflammatory activators. Martin KA, et al. **Mol Pharmacol** 1997 Jan;51(1):97-108

Histamine modulates the expression of c-fos through cyclic AMP production via the H2 receptor in the human promonocytic cell line U937. Shayo C, et al. **Mol Pharmacol** 1997 Jun;51(6):983-90

Corticosteroid effects in skeletal muscle: gene induction/receptor autoregulation. McKay LI, et al. **Muscle Nerve** 1997 Oct;20(10):1318-20

Switching on gene expression [news] Shockett P, et al. **Nat Biotechnol** 1997 Mar;15(3):219, 221

Ligand-inducible and liver-specific target gene expression in transgenic mice. Wang Y, et al. **Nat Biotechnol** 1997 Mar;15(3):239-43

A plant lectin derived from Viscum album induces cytokine gene expression and protein production in cultures of human peripheral blood mononuclear cells. Hostanska K, et al. **Nat Immun** 1995 Sep;14(5-6):295-304

Long-term control of erythropoietin secretion by doxycycline in mice transplanted with engineered primary myoblasts [see comments] Bohl D, et al. **Nat Med** 1997 Mar;3(3):299-305. Comment in: Nat Med 1997 Mar;3(3):278-9.

Pyridostigmine brain penetration under stress enhances neuronal excitability and induces early immediate transcriptional response [see comments] Friedman A, et al. **Nat Med** 1996 Dec;2(12):1382-5. Comment in: Nat Med 1996 Dec;2(12):1307-8. Comment in: Nat Med 1997 Mar;3(3):253. Comment in: Nat Med 1997 Apr;3(4):366.

Mechanism of bracken fern carcinogenesis: evidence for H-ras activation via initial adenine alkylation by ptaquiloside. Prakash AS, et al. **Nat Toxins** 1996;4(5):221-7

Regulation of gene expression by small molecules. Gottesfeld JM, et al. **Nature** 1997 May 8;387(6629):202-5

Regulation of gene expression by natural antisense RNA transcripts. Knee R, et al. **Neurochem Int** 1997 Sep; 31(3):379-92 (122 ref.)

Alcohol, alcoholic brain damage, and GABAA receptor isoform gene expression. Lewohl JM, et al. **Neurochem Int** 1996 Dec;29(6):677-84

Regulation of antioxidant enzyme expression by NGF. Sampath D, et al. **Neurochem Res** 1997 Apr;22(4):351-62

Effect of antipsychotic drugs on the gene expression of NMDA receptor subunits in rats. Toyoda H, et al. **Neurochem Res** 1997 Mar;22(3):249-52

In vivo and in vitro regulation of pituitary transcription factor-1 (Pit-1) by changes in the hormone environment. González-Parra S, et al. **Neuroendocrinology** 1996 Jan; 63(1):3-15

Effect of central and continuous intravenous injection of interleukin-1 beta on brain c-fos expression in the rat: involvement of prostaglandins. Niimi M, et al. **Neuroimmunomodulation** 1996 Mar-Jun;3(2-3):87-92

Dextromethorphan blocks opioid peptide gene expression in the rat hippocampus induced by kainic acid. Kim HC, et al. **Neuropeptides** 1997 Apr;31(2):105-12

Modulation of cytokine production in activated human monocytes by somatostatin. Peluso G, et al. **Neuropeptides** 1996 Oct;30(5):443-51

Ciliary neurotrophic factor regulates nicotinic acetylcholine receptors on human neuroblastoma cells. Halvorsen SW, et al. **Neuropharmacology** 1996 Mar;35(3):257-65

Mu and delta opioid receptor gene expression after chronic treatment with opioid agonist. Buzas B, et al. **Neuroreport** 1996 Jun 17;7(9):1505-8

IFN-gamma induces expression of MHC class I molecules in adult mouse dorsal root ganglion neurones. Fujimaki H, et al. **Neuroreport** 1996 Nov 25;7(18):2951-5

The DNA methyltransferase inhibitor 5-azacytidine specifically alters the expression of helix-loop-helix proteins Id1, Id2 and Id3 during neuronal differentiation. Persengiev SP, et al. **Neuroreport** 1997 Jul 7;8(9-10):2091-5

Regulation of progesterone receptor gene expression by sex steroid hormones in the hypothalamus and the cerebral cortex of the rabbit. Camacho-Arroyo I, et al. **Neurosci Lett** 1996 Aug 16;214(1):25-8

Localisation and properties of AMPA-insensitive kainate sites: receptor autoradiography and gene expression in rat brain. Lunn ML, et al. **Neurosci Lett** 1996 Feb 2; 204(1-2):121-4

D1 dopamine receptor-deficient mouse: cocaine-induced regulation of immediate-early gene and substance P expression in the striatum. Drago J, et al. **Neuroscience** 1996 Oct;74(3):813-23

Radiation-induced apoptosis in developing rats and kainic acid-induced excitotoxicity in adult rats are associated with distinctive morphological and biochemical c-Jun/AP-1 (N) expression. Ferrer I, et al. **Neuroscience** 1997 Sep; 80(2):449-58

Dizocilpine maleate, an N-methyl-D-aspartate antagonist, inhibits dipsogenic responses and C-Fos expression induced by intracerebral infusion of angiotensin II. Xu Z, et al. **Neuroscience** 1997 May;78(1):203-14

Neuronal gene expression in aluminum-induced neurofibrillary pathology: an in situ hybridization study. Chambers CB, et al. **Neurotoxicology** 1997;18(1):77-88

A functional YY1 binding site is necessary and sufficient to activate Surf-1 promoter activity in response to serum growth factors. Cole EG, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3705-11

In vivo generation of 3' and 5' truncated species in the process of c-myc mRNA decay. Ioannidis P, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4969-77

An episomal vector for stable tetracycline-regulated gene expression. Jost M, et al. **Nucleic Acids Res** 1997 Aug 1; 25(15):3131-4

Expression of the gene for the POU domain transcription factor Tst-1/Oct6 is regulated by an estrogen-dependent enhancer. Renner K, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4552-7

Retinoic acid response elements as positive and negative regulators of the expression of the homeobox b-1 gene. De Luca LM, et al. **Nutr Rev** 1996 Feb;54(2 Pt 1):61-3 (17 ref.)

Differential effects of phosphorylation of rat p53 on transactivation of promoters derived from different p53 responsive genes. Lohrum M, et al. **Oncogene** 1996 Dec 19;13(12):2527-39

Myc represses the growth arrest gene gadd45. Marhin WW, et al. **Oncogene** 1997 Jun 12;14(23):2825-34

Evidence for glucocorticoid regulation of the rat vasopressin V1a receptor gene. Watters JJ, et al. **Peptides** 1996; 17(1):67-73

Transcription regulation of rat glutathione S-transferase Ya subunit gene expression by chemopreventive agents. Fei P, et al. **Pharm Res** 1996 Jul;13(7):1043-8

Increased basal expression of hepatic Cyp1a1 and Cyp1a2 genes in inbred mice selected for susceptibility to acetaminophen-induced hepatotoxicity. Casley WL, et al. **Pharmacogenetics** 1997 Aug;7(4):283-93

Regulation of gene expression by insulin. O'Brien RM, et al. **Physiol Rev** 1996 Oct;76(4):1109-61 (622 ref.)

Tumor suppressor p53 down-regulates tissue-specific expression of tyrosinase gene in human melanoma cell lines. Kichina J, et al. **Pigment Cell Res** 1996 Apr;9(2):85-91

A calcium responsive element that regulates expression of two calcium binding proteins in Purkinje cells. Arnold DB, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8842-7

Induction of dopamine D3 receptor expression as a mechanism of behavioral sensitization to levodopa. Bordet R, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3363-7

A pair of adjacent glucocorticoid response elements regulate expression of two mouse metallothionein genes. Kelly EJ, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10045-50

The product of a thyroid hormone-responsive gene interacts with thyroid hormone receptors. Thompson CC, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8527-32

Individual and combined effects of ethanol and cocaine on intracellular signals and gene expression. Torres G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 May; 20(4):561-96 (154 ref.)

Polyunsaturated fatty acids regulate lipogenic and peroxisomal gene expression by independent mechanisms. Clarke SD, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):65-9 (22 ref.)

Regulation of gene transcription by fatty acids, fibrates and prostaglandins: the phosphoenolpyruvate carboxykinase gene as a model. Forest C, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):47-56 (66 ref.)

Mitogenic activation of the transferrin receptor gene promoter is modulated by inhibitors of tyrosine kinases and tyrosine phosphatases. Hirsch S, et al. **Recept Signal Transduct** 1996;6(3-4):121-9

aFGF, bFGF and NGF differentially regulate neuropeptide expression in dorsal root ganglia after axotomy and induce autotomy. Ji RR, et al. **Regul Pept** 1996 Oct 22;66(3):179-89

Acetaminophen-induced hepatotoxicity is associated with early changes in AP-1 DNA binding activity. Blazka ME, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun; 92(3):259-73

Rapid induction of hepatocyte growth factor mRNA after administration of gomisin A, a lignan component of shizandra fruits. Shiota G, et al. **Res Commun Mol Pathol Pharmacol** 1996 Nov;94(2):141-6

TNF-alpha regulates GM-CSF-, IL-3- or M-CSF-induced Fc epsilon RII/CD23 gene expression and soluble Fc epsilon RII release by human monocytes. Hashimoto S, et al. **Scand J Immunol** 1997 Mar;45(3):255-60

Differential effects of transforming growth factor-beta 1 on lipopolysaccharide induction of endothelial adhesion molecules. Kang YH, et al. **Shock** 1996 Aug;6(2):118-25

Nitric oxide regulation of interleukin-8 gene expression. Villarete LH, et al. **Shock** 1997 Jan;7(1):29-35

alpha-Thrombin upregulates G alpha i3 in human vascular endothelial cells. Shreeve SM, et al. **Stroke** 1996 Dec; 27(12):2211-5

Involvement of adenosine and glutamate receptors in the induction of c-fos in the striatum by haloperidol. Boegman RJ, et al. **Synapse** 1996 Jan;22(1):70-7

The dietary pigment curcumin reduces endothelial tissue factor gene expression by inhibiting binding of AP-1 to the DNA and activation of NF-kappa B. Bierhaus A, et al. **Thromb Haemost** 1997 Apr;77(4):772-82

C5a induces tissue factor activity on endothelial cells. Ikeda K, et al. **Thromb Haemost** 1997 Feb;77(2):394-8

Platelet-derived growth factor-BB and monocyte chemotactic protein-1 induce human peripheral blood monocytes to express tissue factor. Ernofsson M, et al. **Thromb Res** 1996 Aug 15;83(4):307-20

Regulation of transforming growth factor beta 1 messenger ribonucleic acid expression in porcine thyroid follicles in vitro by growth factors, iodine, or delta-iodolactone. Gärtner R, et al. **Thyroid** 1997 Aug;7(4):633-40

Cadmium, gene regulation, and cellular signalling in mammalian cells. Beyersmann D, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):247-61 (137 ref.)

Role of mitochondria and calcium ions in tributyltin-induced gene regulatory pathways. Corsini E, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):74-81

Induction of liver-associated transforming growth factor beta 1 (TGF-beta 1) mRNA expression by carbon tetrachloride leads to the inhibition of T helper 2 cell-associated lymphokines. Jeon YJ, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):27-35

Vinclozolin and p,p'-DDE alter androgen-dependent gene expression: in vivo confirmation of an androgen receptor-mediated mechanism. Kelce WR, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):192-200

Progesterone pretreatment enhances cellular sensitivity to cadmium despite a marked activation of the metallothionein gene. Shimada H, et al. **Toxicol Appl Pharmacol** 1997 Jan; 142(1):178-85

Enhanced expression of bax in small preantral follicles during 4-vinylcyclohexene diepoxide-induced ovotoxicity in the rat. Springer LN, et al. **Toxicol Appl Pharmacol** 1996 Aug; 139(2):402-10

Evidence for nitric oxide participation in down-regulation of CYP2B1/2 gene expression at the pretranslational level. Khatsenko OG, et al. **Toxicol Lett** 1997 Feb 7; 90(2-3):207-16

Increased IL-1, IL-6 and TNF alpha secretion and mRNA levels in WEHI-3 cells exposed to cyclopiazonic acid. Marin ML, et al. **Toxicology** 1996 Nov 15;114(1):67-79

Anti-gene therapy: the use of ribozymes to inhibit gene function. Couture LA, et al. **Trends Genet** 1996 Dec; 12(12):510-5 (55 ref.)

[Specific control of gene expression by oligonucleotides: from chemistry to clinical aspects] Hélène C. **Ann Pharm Fr** 1997;55(3):95-103 (34 ref.) (Eng. Abstr.) **(Fre)**

GENETICS

Regulation of lipogenic enzyme expression by glucose in liver and adipose tissue: a review of the potential cellular and molecular mechanisms. Foufelle F, et al. **Adv Enzyme Regul** 1996;36:199-226 (91 ref.)

Influence of bile salts on hepatic mdr2 P-glycoprotein expression. Frijters CM, et al. **Adv Enzyme Regul** 1996; 36:351-63 (38 ref.)

P53 oncoprotein expression and gene mutations in some keratoacanthomas. Perez MI, et al. **Arch Dermatol** 1997 Feb;133(2):189-93

Molecular biology of cytokines. Dendorfer U. **Artif Organs** 1996 May;20(5):437-44 (90 ref.)

Specific regulation of gene expression by antisense nucleic acids: a summary of methodologies and associated problems. Kawasaki H, et al. **Artif Organs** 1996 Aug; 20(8):836-48

Expression of PrP mRNA is regulated by a fragment of MRP8 in human fibroblasts. Kniazeva M, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):59-63

Multiple cadherins are expressed in human fibroblasts. Matsuyoshi N, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):355-8

Regulation of tyrosine aminotransferase gene expression by glucocorticoids in quiescent and regenerating liver. Baki L, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):745-53

Heat shock of human synovial and dermal fibroblasts induces delayed up-regulation of collagenase-gene expression. Hitraya EG, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):743-7

Adrenergic stimulation of lipoprotein lipase gene expression in rat brown adipocytes differentiated in culture: mediation via beta3- and alpha1-adrenergic receptors. Kuusela P, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):759-67

Signal-transduction-pathway-specific desensitization of expression of orphan nuclear receptor TIS1. Lim RW, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):785-9

The protein phosphatase inhibitor okadaic acid suppresses type I collagen gene expression in cultured fibroblasts at the transcriptional level. Westermarck J, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):995-9

Two variants of quantitative reverse transcriptase PCR used to show differential expression of alpha-, beta- and gamma-fibrinogen genes in rat liver lobes. Zhang J, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):769-75

Inducibility of cytochromes P-450 by dioxin in liver and extrahepatic tissues of the marmoset monkey (Callithrix jacchus). Schulz TG, et al. **Biochim Biophys Acta** 1996 Nov 14;1298(1):131-40

Microsomal triglyceride transfer protein. Wetterau JR, et al. **Biochim Biophys Acta** 1997 Apr 1;1345(2):136-50 (74 ref.)

Characterization of human cyclooxygenase 2 gene promoter localization of a TGF-beta response element. Yang X, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):287-92

Negative transcriptional regulation of the chicken Na+/K(+)-ATPase alpha 1-subunit gene. Yu HY, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):239-52

Regulation of the estrogen receptor and its messenger ribonucleic acid in the ovariectomized sheep myometrium and endometrium: the role of estradiol and progesterone. Wu WX, et al. **Biol Reprod** 1996 Oct;55(4):762-8

Heterochromatin effects on the frequency and duration of LCR-mediated gene transcription. Milot E, et al. **Cell** 1996 Oct 4;87(1):105-14

Localization of sequences that influence basal and cell type-specific activity of the murine mdr2 promoter. Yang CP, et al. **Cell Growth Differ** 1996 Sep;7(9):1227-37

Increment of hFIX expression with endogenous intron 1 in vitro. Zheng B, et al. **Cell Res** 1997 Jun;7(1):21-9

Intestinal fatty acid-binding protein expression stimulates fibroblast fatty acid esterification. Prows DR, et al. **Chem Phys Lipids** 1996 Nov 1;84(1):47-56

Signals for activation of the GM-CSF promoter and enhancer in T cells. Shannon MF, et al. **Crit Rev Immunol** 1997;17(3-4):301-23 (161 ref.)

RNA-binding proteins as regulators of gene expression. Siomi H, et al. **Curr Opin Genet Dev** 1997 Jun;7(3):345-53 (70 ref.)

Regulation of gene expression at early stages of B-cell and T-cell differentiation. Fitzsimmons D, et al. **Curr Opin Immunol** 1996 Apr;8(2):166-74 (64 ref.)

The molecular genetics of human facioscapulohumeral muscular dystrophy and the myodystrophy mouse model. Mathews KD, et al. **Curr Opin Neurol** 1996 Oct;9(5):394-9 (35 ref.)

Insulin-like growth factor binding protein gene expression in the pregnant rat uterus and placenta. Cerro JA, et al. **Dev Biol** 1997 Apr 15;184(2):278-95

Novel insulinoma cell lines produced by iterative engineering of GLUT2, glucokinase, and human insulin expression. Clark SA, et al. **Diabetes** 1997 Jun;46(6):958-67

Regulation of insulin secretion from novel engineered insulinoma cell lines. Hohmeier HE, et al. **Diabetes** 1997 Jun;46(6):968-77

Proinsulin conversion in GH3 cells after coexpression of human proinsulin with the endoproteases PC2 and/or PC3. Kaufmann JE, et al. **Diabetes** 1997 Jun;46(6):978-82

Leptin receptor of Zucker fatty rat performs reduced signal transduction. Yamashita T, et al. **Diabetes** 1997 Jun; 46(6):1077-80

Impact of natural IRS-1 mutations on insulin signals: mutations of IRS-1 in the PTB domain and near SH2 protein binding sites result in impaired function at different steps of IRS-1 signaling. Yoshimura R, et al. **Diabetes** 1997 Jun;46(6):929-36

Long-term and rapid regulation of ob mRNA levels in adipose tissue from normal (Sprague Dawley rats) and obese (db/db mice, fa/fa rats) rodents. Igel M, et al. **Diabetologia** 1996 Jul;39(7):758-65

Cytokine gene expression in the BB rat pancreas: natural course and impact of bacterial vaccines. Kolb H, et al. **Diabetologia** 1996 Dec;39(12):1448-54

Identification of genes regulated by glucose in a pancreatic beta-cell line by a new method for subtraction of mRNA. Yamato E, et al. **Diabetologia** 1996 Nov;39(11):1293-8

Studies on the mechanism of glucocorticoid-mediated repression from a negative glucocorticoid response element from the bovine prolactin gene [published erratum appears in DNA Cell Biol 1997 May;16(5):670] Subramaniam N, et al. **DNA Cell Biol** 1997 Feb;16(2):153-63

Chicken ovalbumin upstream promoter-transcription factor, hepatocyte nuclear factor 3, and CCAAT/enhancer binding protein control the far-upstream enhancer of the rat alpha-fetoprotein gene. Thomassin H, et al. **DNA Cell Biol** 1996 Dec;15(12):1063-74

A negative regulatory region containing a glucocorticosteroid response element (nGRE) in the human interleukin-1beta gene. Zhang G, et al. **DNA Cell Biol** 1997 Feb;16(2):145-52

Nucleotide sequence of a 28-kb mouse genomic region comprising the imprinted Igf2 gene. Sasaki H, et al. **DNA Res** 1996 Oct 31;3(5):331-5

A locus control region at -12 kb of the tyrosinase gene. Montoliu L, et al. **EMBO J** 1996 Nov 15;15(22):6026-34

Smooth muscle alternative splicing induced in fibroblasts by heterologous expression of a regulatory gene. Roberts GC,

et al. **EMBO J** 1996 Nov 15;15(22):6301–10

Multiple circadian–regulated elements contribute to cycling period gene expression in Drosophila. Stanewsky R, et al. **EMBO J** 1997 Aug 15;16(16):5006–18

Acute expression of the PRL receptor gene after ovariectomy in midpregnant mouse mammary gland. Mizoguchi Y, et al. **Endocr J** 1996 Oct;43(5):537–44

Anoxia–induced gene expression in turtle heart. Upregulation of mitochondrial genes for NADH–ubiquinone oxidoreductase subunit 5 and cytochrome c oxidase subunit 1. Cai Q, et al. **Eur J Biochem** 1996 Oct 1;241(1):83–92

Molecular mechanisms governing tumor–necrosis–factor–mediated regulation of plasminogen–activator inhibitor type–2 gene expression. Dear AE, et al. **Eur J Biochem** 1996 Oct 1;241(1):93–100

Oncostatin M differentially regulates tissue inhibitors of metalloproteinases TIMP–1 and TIMP–3 gene expression in human synovial lining cells. Gatsios P, et al. **Eur J Biochem** 1996 Oct 1;241(1):56–63

The regulation of gene expression in hypertrophying skeletal muscle. Carson JA. **Exerc Sport Sci Rev** 1997;25:301–20 (57 ref.)

High–level expression of human c–Src can cause a spherical morphology without loss of anchorage–dependent growth of NIH 3T3 cells. Kato G, et al. **FEBS Lett** 1997 Jul 14; 411(2–3):317–21

A tightly regulated high level expression vector that utilizes a thermosensitive lac repressor: production of the human T cell receptor V beta 5.3 in Escherichia coli. Andrews B, et al. **Gene** 1996 Dec 5;182(1–2):101–9

Characterisation of two promoters for prion protein (PrP) gene expression in neuronal cells. Baybutt H, et al. **Gene** 1997 Jan 3;184(1):125–31

Characterization of a polyubiquitin gene in T. thermophila and of ubiquitin gene expression during sexual reproduction and under stress conditions. Guerreiro P, et al. **Gene** 1996 Dec 5;182(1–2):183–8

Conservation of function and expression of unc–119 from two Caenorhabditis species despite divergence of non–coding DNA. Maduro M, et al. **Gene** 1996 Dec 12; 183(1–2):77–85

Probing the limits of expression levels by varying promoter strength and plasmid copy number in Saccharomyces cerevisiae [published erratum appears in Gene 1997 Feb 20;186(1):149] Nacken V, et al. **Gene** 1996 Oct 10; 175(1–2):253–60

Construction and characterization of a one–plasmid system for the controlled expression of genes in mammalian cells by tetracycline. O'Brien K, et al. **Gene** 1997 Jan 3; 184(1):115–20

NF–Y binds to the inverted CCAAT box, an essential element for cAMP–dependent regulation of the rat fatty acid synthase (FAS) gene. Roder K, et al. **Gene** 1997 Jan 3;184(1):21–6

Insertion of metal–responsive elements increases the inducibility of the mouse mammary tumor virus promoter. Yang H, et al. **Gene** 1996 Dec 5;182(1–2):177–82

Suprabasal expression of a dominant–negative RXR alpha mutant in transgenic mouse epidermis impairs regulation of gene transcription and basal keratinocyte proliferation by RAR–selective retinoids. Feng X, et al. **Genes Dev** 1997 Jan 1;11(1):59–71

Expression analysis and chromosomal assignment of the human SFRS5/SRp40 gene. Snow BE, et al. **Genomics** 1997 Jul 15;43(2):165–70

Differential expression of MUC1 on transfected cell lines influences its recognition by MUC1 specific T cells. Magarian–Blander J, et al. **Glycoconj J** 1996 Oct; 13(5):749–56

Expression of trefoil peptides in the gastric mucosa of transgenic mice overexpressing transforming growth factor–alpha. Goldenring JR, et al. **Growth Factors** 1996; 13(1–2):111–9

Identification of genes expressed after noise exposure in the chick basilar papilla. Gong TW, et al. **Hear Res** 1996 Jul; 96(1–2):20–32

Characterization of factors involved in modulating persistence of transgene expression from recombinant adenovirus in the mouse lung. Kaplan JM, et al. **Hum Gene Ther** 1997 Jan 1;8(1):45–56

Differential expression of isomorphic HLA–DR beta genes is not a sole function of transcription. Leen MP, et al. **Hum Immunol** 1996 Oct;50(2):111–20

Linomide, an immunomodulator that inhibits Th1 cytokine gene expression. Arad G, et al. **Int Immunol** 1996 Oct; 8(10):1603–7

Phenotypic characterization of rambouillet sheep expressing the callipyge gene: I. Inheritance of the condition and production characteristics. Jackson SP, et al. **J Anim Sci** 1997 Jan;75(1):14–8

Identification of multiple regulatory elements of human L–histidine decarboxylase gene. Nakagawa S, et al. **J Biochem (Tokyo)** 1997 May;121(5):935–40

Autocrine amplification of type I interferon gene expression mediated by interferon stimulated gene factor 3 (ISGF3). Yoneyama M, et al. **J Biochem (Tokyo)** 1996 Jul; 120(1):160–9

The TATA motif is a target for efficient transcriptional activation and nerve growth factor induction of the peripherin gene. Desmarais D, et al. **J Biol Chem** 1996 Oct 4;271(40):24976–81

Constitutive in vivo mRNA expression by osteocytes of beta–actin, osteocalcin, connexin–43, IGF–I, c–fos and c–jun, but not TNF–alpha nor tartrate–resistant acid phosphatase. Mason DJ, et al. **J Bone Miner Res** 1996 Mar; 11(3):350–7

Is heat shock protein re–induction during tolerance related to the stressor–specific induction of heat shock proteins? Wiegant FA, et al. **J Cell Physiol** 1996 Nov;169(2):364–72

Effects of tacrolimus (FK506) on human insulin gene expression, insulin mRNA levels, and insulin secretion in HIT–T15 cells. Redmon JB, et al. **J Clin Invest** 1996 Dec 15;98(12):2786–93

Targeted expression of IL–11 in the murine airway causes lymphocytic inflammation, bronchial remodeling, and airways obstruction. Tang W, et al. **J Clin Invest** 1996 Dec 15;98(12):2845–53

Cloning and expression analysis of the bovine dentin matrix acidic phosphoprotein gene. Hirst KL, et al. **J Dent Res** 1997 Mar;76(3):754–60

An isotype–specific activator of major histocompatibility complex (MHC) class II genes that is independent of class II transactivator. Douhan J, et al. **J Exp Med** 1997 Jun 2;185(11):1885–95

Intracellular IL–1 receptor antagonist promoter: cell type–specific and inducible regulatory regions. Jenkins JK, et al. **J Immunol** 1997 Jan 15;158(2):748–55

Cognate T cell help for CD40–deficient B cells induces c–myc RNA expression, but DNA synthesis requires an additional signal through surface Ig. Schrader CE, et al. **J Immunol** 1997 Jan 1;158(1):153–62

Further characterization of the metabolic properties of triglyceride–rich lipoproteins from human and mouse apoC–III transgenic mice. Aalto–Setälä K, et al. **J Lipid Res** 1996 Aug;37(8):1802–11

VLDL receptor mediates the uptake of human chylomicron remnants in vitro. Niemeier A, et al. **J Lipid Res** 1996 Aug; 37(8):1733–42

Attenuation of gene expression by a trinucleotide repeat–rich tract from the terminal exon of the rat hepatic polymeric immunoglobulin receptor gene. Aoki T, et al. **J Mol Biol** 1997 Mar 28;267(2):229–36

Assembly of functional regulatory complexes on MHC class II promoters in vivo. Fontes JD, et al. **J Mol Biol** 1997 Jul 18;270(3):336–45

A one–nucleotide difference in a cAMP and phorbol ester response element leads to differential regulation of the human chorionic somatomammotropin A and B gene transcription. Oury C, et al. **J Mol Endocrinol** 1997 Apr; 18(2):87–99

Chromatin structure and the regulation of gene expression: remodeling at the MMTV promoter. Beato M. **J Mol Med** 1996 Dec;74(12):711–24 (154 ref.)

Prerequisites for tissue specific and position independent expression of a gene locus in transgenic mice. Bonifer C, et al. **J Mol Med** 1996 Nov;74(11):663–71 (51 ref.)

The metabolic consequences of altered glucose transporter expression in transgenic mice. Katz EB, et al. **J Mol Med** 1996 Nov;74(11):639–52 (75 ref.)

Models for pairing of IS10 encoded antisense RNAs in vivo. Jain C. **J Theor Biol** 1997 Jun 21;186(4):431–9

Interleukin–12: an immunoregulatory cytokine produced by B cells and antigen–presenting cells. Sartori A, et al. **Methods** 1997 Jan;11(1):116–27

Interferon expression by B cells. Young HA. **Methods** 1997 Jan;11(1):112–5

Stable episomal transfection and gene expression in Entamoeba dispar. Moshitch–Moshkovitch S, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):257–61

Age–dependent alterations of c–fos and growth regulation in human fibroblasts expressing the HPV16 E6 protein. Yan Y, et al. **Mol Biol Cell** 1996 Jun;7(6):975–83

GABP factors bind to a distal interleukin 2 (IL–2) enhancer and contribute to c–Raf–mediated increase in IL–2 induction. Avots A, et al. **Mol Cell Biol** 1997 Aug; 17(8):4381–9

Interaction of Ets–1 and the POU–homeodomain protein GHF–1/Pit–1 reconstitutes pituitary–specific gene expression. Bradford AP, et al. **Mol Cell Biol** 1997 Mar; 17(3):1065–74

A unique downregulation of h2–calponin gene expression in Down syndrome: a possible attenuation mechanism for fetal survival by methylation at the CpG island in the trisomic chromosome 21. Kuromitsu J, et al. **Mol Cell Biol** 1997 Feb;17(2):707–12

Gene conversions mediating antigenic variation in Trypanosoma brucei can occur in variant surface glycoprotein expression sites lacking 70–base–pair repeat sequences. McCulloch R, et al. **Mol Cell Biol** 1997 Feb; 17(2):833–43

Transcriptional regulation of the ferritin heavy–chain gene: the activity of the CCAAT binding factor NF–Y is modulated in heme–treated Friend leukemia cells and during monocyte–to–macrophage differentiation. Marziali G, et al. **Mol Cell Biol** 1997 Mar;17(3):1387–95

A minimal regulatory region maintains constitutive expression of the max gene. Peters MA, et al. **Mol Cell Biol** 1997 Mar;17(3):1037–48

CpG islands from the alpha–globin gene cluster increase gene expression in an integration–dependent manner. Shewchuk BM, et al. **Mol Cell Biol** 1997 Oct;17(10):5856–66

The Brn–3a transcription factor induces neuronal process outgrowth and the coordinate expression of genes encoding synaptic proteins. Smith MD, et al. **Mol Cell Biol** 1997 Jan;17(1):345–54

Gene expression of NOR–1, a neuron–derived orphan receptor, is inducible in neuronal and other cell lineages in culture. Bandoh S, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):227–30

Regulation of function of the murine luteinizing hormone receptor promoter by cis– and trans–acting elements in mouse Leydig tumor cells. El–Hefnawy T, et al. **Mol Cell Endocrinol** 1996 May 31;119(2):207–17

Constitutive activation of the cyclic adenosine 3',5'–monophosphate signaling pathway by parathyroid hormone (PTH)/PTH–related peptide receptors mutated at the two loci for Jansen's metaphyseal chondrodysplasia. Schipani E, et al. **Mol Endocrinol** 1997 Jun;11(7):851–8

The beta c component of the granulocyte–macrophage colony–stimulating factor (GM–CSF)/interleukin 3 (IL–3)/IL–5 receptor interacts with a hybrid GM–CSF/erythropoietin receptor to influence proliferation and beta–globin mRNA expression. Jubinsky PT, et al. **Mol Med** 1996 Nov;2(6):766–73

Cell–type specific DNA–protein interactions at the tissue–type plasminogen activator promoter in human endothelial and HeLa cells in vivo and in vitro. Arts J, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):311–7

Distamycin prolongs E–selectin expression by interacting with a specific NF–kappaB–HMG–I(Y) binding site in the promoter. Ghersa P, et al. **Nucleic Acids Res** 1997 Jan 15; 25(2):339–46

Transcriptional regulation of the Drosophila CycA gene by the DNA replication–related element (DRE) and DRE binding factor (DREF). Ohno K, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3942–6

Activated ras and ret oncogenes induce over–expression of c–met (hepatocyte growth factor receptor) in human thyroid epithelial cells. Ivan M, et al. **Oncogene** 1997 May 22;14(20):2417–23

Differential regulation of the human Wilms tumour suppressor gene (WT1) promoter by two isoforms of PAX2. McConnell MJ, et al. **Oncogene** 1997 Jun 5; 14(22):2689–700

Epstein–Barr virus nuclear antigen (EBNA)3C is an immortalizing oncoprotein with similar properties to adenovirus E1A and papillomavirus E7. Parker GA, et al. **Oncogene** 1996 Dec 19;13(12):2541–9

c–myc activates RCC1 gene expression through E–box elements. Tsuneoka M, et al. **Oncogene** 1997 May 15; 14(19):2301–11

Differences in c–fos gene product expression in cancers of the gall–bladder and biliary tract. Lee CS. **Pathol Int** 1996 Oct;46(10):771–6

The hepatitis B virus X gene induces p53–mediated programmed cell death. Chirillo P, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8162–7

Resistance to apoptosis in CTLL–2 cells constitutively expressing c–Myb is associated with induction of BCL–2 expression and Myb–dependent regulation of bcl–2 promoter activity. Salomoni P, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3296–301

The expression of cyclooxygenase–2 (COX–2) in amnion and decidua following spontaneous labor. Fuentes A, et al. **Prostaglandins** 1996 Oct;52(4):261–7

Expression and regulation of prostaglandin F receptor mRNA in rodent osteoblastic cells. Nemoto K, et al. **Prostaglandins** 1995 Nov–Dec;50(5–6):349–58

In vivo and in vitro expression of a non–mammalian cyclooxygenase–1. Reed DW, et al. **Prostaglandins** 1996 Oct;52(4):269–84

Canine prosomatostatin: isolation of a cDNA, regulation of gene expression, and characterization of post–translational processing intermediates. Dickinson CJ, et al. **Regul Pept** 1996 Dec 17;67(3):145–52

Effects of interferon–tau and progesterone on oestrogen–stimulated expression of receptors for oestrogen, progesterone and oxytocin in the endometrium of ovariectomized ewes. Spencer TE, et al. **Reprod Fertil Dev** 1996;8(5):843–53

A human SP–C promoter fragment targets alpha 1–proteinase inhibitor gene expression to lung alveolar type II cells in transgenic mice. Degryse E, et al. **Transgenic Res** 1996 Mar; 5(2):139–43

RNA turnover and the control of mitochondrial gene expression. Margossian SP, et al. **Trends Biochem Sci** 1996 Oct;21(10):392–6 (36 ref.)

Position effects and genetic disease. Milot E, et al. **Trends Genet** 1996 Apr;12(4):123–6 (42 ref.)

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S–transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691–4

[Identification and characterization of the rat beta–globin locus control region (LCR) site 1 and site 2] Kameyama G. **Nippon Ika Daigaku Zasshi** 1996 Apr;63(2):127–39 (Eng. Abstr.) **(Jpn)**

[The characteristics of different types of mRNA expressed in the human brain] Dmitrenko VV, et al. **Tsitol Genet** 1996 Sep–Oct;30(5):41–7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

B lymphocyte development and transcription regulation in vivo. Opstelten D. **Adv Immunol** 1996;63:197–268 (308 ref.)

Evidence for major basic protein immunoreactivity and

interleukin 5 gene activation during the late phase response in explanted airways. Eidelman DH, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):582–9

Adenosine A3 receptor expression and function in eosinophils. Walker BA, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):531–7

Regulation of MHC class II genes: lessons from a disease. Mach B, et al. **Annu Rev Immunol** 1996;14:301–31 (138 ref.)

Accessibility control of antigen-receptor variable-region gene assembly: role of cis-acting elements. Sleckman BP, et al. **Annu Rev Immunol** 1996;14:459–81 (116 ref.)

Cytokine gene expression and autoantibody production in Sjögren's syndrome of MRL/lpr mice. Hayashi Y, et al. **Autoimmunity** 1996;23(4):269–77

Oxidative signalling and gene expression during lymphocyte activation. Goldstone SD, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1–2):175–82

Regulation of interleukin-10 gene expression: possible mechanisms accounting for its upregulation and for maturational differences in its expression by blood mononuclear cells. Le T, et al. **Blood** 1997 Jun 1; 89(11):4112–9

Regulation of cytokine gene expression by adjuvants in vivo. Victoratos P, et al. **Clin Exp Immunol** 1997 Sep; 109(3):569–78

The intragraft gene activation of markers reflecting T-cell-activation and -cytotoxicity analyzed by quantitative RT-PCR in renal transplantation. Strehlau J, et al. **Clin Nephrol** 1996 Jul;46(1):30–3

Signals for activation of the GM-CSF promoter and enhancer in T cells. Shannon MF, et al. **Crit Rev Immunol** 1997;17(3–4):301–23 (161 ref.)

Regulation of transcription of MHC class II genes. Boss JM. **Curr Opin Immunol** 1997 Feb;9(1):107–13 (57 ref.)

Mouse islet cell lysis mediated by interleukin-1-induced Fas. Yamada K, et al. **Diabetologia** 1996 Nov;39(11):1306–12

Cytokine induction of monocyte chemoattractant protein-1 gene expression in human endothelial cells depends on the cooperative action of NF-kappa B and AP-1. Martin T, et al. **Eur J Immunol** 1997 May;27(5):1091–7

Monocytes induce E-selectin gene expression in endothelial cells: role of CD11/CD18 and extracellular matrix proteins. Noble KE, et al. **Eur J Immunol** 1996 Dec;26(12):2944–51

Itk, a T cell-specific tyrosine kinase, is required for CD2-mediated interleukin-2 promoter activation in the human T cell line Jurkat. Tanaka N, et al. **Eur J Immunol** 1997 Apr;27(4):834–41

CAG repeat mutation in the mouse IL-2 gene enables concurrent assessment of T- and B-cell-specific gene expression by northern analysis. Szebeni J, et al. **Exp Clin Immunogenet** 1996;13(2):117–9

Nondepleting anti-CD4 antibody treatment prolongs lung-directed E1-deleted adenovirus-mediated gene expression in rats. Lei D, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2273–9

HLA-G gene transcriptional regulation in trophoblasts and blood cells: differential binding of nuclear factors to a regulatory element located 1.1 kb from exon 1. Moreau P, et al. **Hum Immunol** 1997 Jan;52(1):41–6

Regulation of bcl-2 and fas expression in primary activation of human peripheral lymphocytes is not sensitive to dexamethasone or cyclosporin-A. Sfikakis PP, et al. **Hum Immunol** 1996 Oct;50(2):121–6

A T cell-specific enhancer in the interleukin-3 locus is activated cooperatively by Oct and NFAT elements within a DNase I-hypersensitive site. Duncliffe KN, et al. **Immunity** 1997 Feb;6(2):175–85

STAM, signal transducing adaptor molecule, is associated with Janus kinases and involved in signaling for cell growth and c-myc induction. Takeshita T, et al. **Immunity** 1997 Apr;6(4):449–57

Suppression of LPS-induced tumor necrosis factor-alpha gene expression by microtubule disrupting agents. Li Z, et al. **Immunobiology** 1996 Oct;195(4–5):640–54

Cytokine gene expression in immune mice reinfected with Mycoplasma pneumoniae: the role of T cell subsets in aggravating the inflammatory response. Opitz O, et al. **Immunobiology** 1996–97;196(5):575–87

Transcriptional control of the expression of the c-fms gene encoding the receptor for macrophage colony-stimulating factor (CSF-1). Yue X, et al. **Immunobiology** 1996 Oct; 195(4–5):461–76 (59 ref.)

Differential interleukin (IL)-10 and IL-13 gene expression in vivo in salivary glands and peripheral blood mononuclear cells from patients with primary Sjögren's syndrome. Villarreal GM, et al. **Immunol Lett** 1996 Jan; 49(1–2):105–9

C-reactive protein: structural biology, gene expression, and host defense function. Szalai AJ, et al. **Immunol Res** 1997; 16(2):127–36 (34 ref.)

Enhancement of B-cell translocation gene-1 expression by prostaglandin E2 in macrophages and the relationship to proliferation. Suk K, et al. **Immunology** 1997 May; 91(1):121–9

Positive selection induces CD4 promoter and enhancer function. Adlam M, et al. **Int Immunol** 1997 Jun;9(6):877–87

Elevated expression levels of an Ig transgene in mice links the IgH 3' enhancer to the regulation of IgH expression. Arulampalam V, et al. **Int Immunol** 1996 Jul;8(7):1149–57

Regulation of the E beta gene in vivo: lessons from E beta d transgenic mice. Douhan J 3rd, et al. **Int Immunol** 1996 Feb;8(2):255–65

Regulation of CD40 ligand expression on naive CD4 T cells: a role for TCR but not co-stimulatory signals. Jaiswal AI, et al. **Int Immunol** 1996 Feb;8(2):275–85

The Ig kappa 3'-enhancer triggers gene expression in early B lymphocytes but its activity is enhanced on B cell activation. Meyer KB, et al. **Int Immunol** 1996 Oct; 8(10):1561–8

Thymocytes control the CD4 gene differently from mature T lymphocytes. Uematsu Y, et al. **Int Immunol** 1997 Jan; 9(1):179–87

Independent pathways for de-repression of the mouse Ig heavy chain germ-line epsilon promoter: an IL-4 NAF/NF-IL-4 site as a context-dependent negative element. Wang DZ, et al. **Int Immunol** 1996 Jul;8(7):977–89

Involvement of nuclear factor-kappa B activation in IgE synthesis in human B cells. Yanagihara Y, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S224–9 (38 ref.)

Hyaluronan (HA) fragments induce chemokine gene expression in alveolar macrophages. The role of HA size and CD44. McKee CM, et al. **J Clin Invest** 1996 Nov 15; 98(10):2403–13

Position-dependent variegation of a CD4 minigene with targeted expression to mature CD4+ T cells. Boyer O, et al. **J Immunol** 1997 Oct 1;159(7):3383–90

The control of IL-4 gene expression in activated murine T lymphocytes: a novel role for neu-1 sialidase. Chen XP, et al. **J Immunol** 1997 Apr 1;158(7):3070–80

Characterization of three promoter elements and cognate DNA binding protein(s) necessary for IFN-gamma induction of gp91-phox transcription. Eklund EA, et al. **J Immunol** 1996 Sep 15;157(6):2418–29

Identification of a promoter element that regulates tissue-specific expression of the human CD80 (B7.1) gene. Fong TC, et al. **J Immunol** 1996 Nov 15;157(10):4442–50

B cells in the bursa of Fabricius express a novel C-type lectin gene. Goitsuka R, et al. **J Immunol** 1997 Oct 1; 159(7):3126–32

Characterization of B cells expressing recombination activating genes in germinal centers of immunized mouse lymph nodes. Hikida M, et al. **J Immunol** 1997 Mar 15; 158(6):2509–12

Multifactor cis-dominant negative regulation of IL-2 gene expression in anergized T cells. Kitagawa-Sakakida S, et al. **J Immunol** 1996 Sep 15;157(6):2328–39

Somatic hypermutation of a lambda 2 transgene under the control of the lambda enhancer or the heavy chain intron enhancer. Klotz EL, et al. **J Immunol** 1996 Nov 15; 157(10):4458–63

Overexpression of c-fos inhibits down-regulation of a cyclin-dependent kinase-2 inhibitor p27Kip1 in splenic B cells activated by surface Ig cross-linking. Kobayashi K, et al. **J Immunol** 1997 Mar 1;158(5):2050–6

Receptors for immune complexes activate gene expression and synthesis of matrix proteins in cultured rat and human mesangial cells: role of TGF-beta. López-Armada MJ, et al. **J Immunol** 1996 Sep 1;157(5):2136–42

Defective Fc gamma RII gene expression in macrophages of NOD mice: genetic linkage with up-regulation of IgG1 and IgG2b in serum. Luan JJ, et al. **J Immunol** 1996 Nov 15;157(10):4707–16

Natural inactivation of a common HLA allele (A*2402) has occurred on at least three separate occasions. Magor KE, et al. **J Immunol** 1997 Jun 1;158(11):5242–50

Defective transcription of the IL-2 gene is associated with impaired expression of c-Fos, FosB, and JunB in anergic T helper 1 cells. Mondino A, et al. **J Immunol** 1996 Sep 1;157(5):2048–57

Molecular cloning, chromosomal localization, expression, and functional characterization of the mouse analogue of human CD59. Powell MB, et al. **J Immunol** 1997 Feb 15; 158(4):1692–702

Induction of the TNF-alpha promoter in the murine dendritic cell line 18 and the murine mast cell line CPII is differently regulated. Preischl EE, et al. **J Immunol** 1996 Sep 15; 157(6):2645–53

RP1, a new member of the adenomatous polyposis coli-binding EB1-like gene family, is differentially expressed in activated T cells. Renner C, et al. **J Immunol** 1997 Aug 1;159(3):1276–83

Down-modulation of c-myc expression induces apoptosis of B lymphocyte models of tolerance via clonal deletion. Sonenshein GE. **J Immunol** 1997 Mar 1;158(5):1994–7

Modulation of human platelet-activating factor receptor gene expression by protein kinase C activation. Thivierge M, et al. **J Immunol** 1996 Nov 15;157(10):4681–7

Transcriptional regulation of platelet-activating factor receptor gene in B lymphoblastoid Ramos cells by TGF-beta. Yang HH, et al. **J Immunol** 1997 Mar 15; 158(6):2771–8

Regulation of IgM and IgD heavy chain gene expression: effect of abrogation of intergenic transcriptional termination. Yuan D, et al. **J Immunol** 1996 Sep 1; 157(5):2073–81

Genetic control of interleukin 12 responsiveness: implications for disease pathogenesis. Gorham JD, et al. **J Mol Med** 1997 Jul;75(7):502–11 (100 ref.)

Regulation of interleukin-6 and interleukin-1 beta gene expression in the mouse deciduum. Liang L, et al. **J Reprod Immunol** 1996 Feb;30(1):29–52

Caprine arthritis encephalitis virus dysregulates the expression of cytokines in macrophages. Lechner F, et al. **J Virol** 1997 Oct;71(10):7488–97

Reversible impairment in monocyte major histocompatibility complex class II expression in malnourished surgical patients. Welsh FK, et al. **JPEN J Parenter Enteral Nutr** 1996 Sep–Oct;20(5):344–8

Involvement of inflammatory cytokines and nitric oxide in the expression of non-specific resistance to Listeria monocytogenes in mice induced by viable but not killed Mycobacterium bovis BCG. Yang J, et al. **Microb Pathog** 1997 Feb;22(2):79–88

An intronic polymorphic repeat sequence modulates interleukin-1 alpha gene regulation. Bailly S, et al. **Mol Immunol** 1996 Aug;33(11–12):999–1006

I-A beta gene expression regulation in macrophages derived from mice susceptible or resistant to infection with M. bovis BCG. Barrera LF, et al. **Mol Immunol** 1997 Mar; 34(4):343–55

Rabbit DQ52 and DH gene expression in early B-cell development. Chen HT, et al. **Mol Immunol** 1996 Dec; 33(17–18):1313–21

Gene activating and proapoptotic potential are independent properties of different CD4 epitopes. Milia E, et al. **Mol Immunol** 1997 Mar;34(4):287–96

Transcriptional regulation of the human polymeric immunoglobulin receptor gene by interferon-gamma. Piskurich JF, et al. **Mol Immunol** 1997 Jan;34(1):75–91

Transient up-regulation of P2Y2 nucleotide receptor mRNA expression is an immediate early gene response in activated thymocytes. Koshiba M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):831–6

Expression of adenoviral E3 transgenes in beta cells prevents autoimmune diabetes. von Herrath MG, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9808–13

Induction of apoptosis and cytokine gene expression in T-cell lines by sera of patients with systemic lupus erythematosus. Yang BC, et al. **Scand J Immunol** 1997 Jan;45(1):96–102

Patterns of graft infiltration and cytokine gene expression during the first 10 days of kidney transplantation. McLean AG, et al. **Transplantation** 1997 Feb 15;63(3):374–80

Hypoxia, but not reoxygenation, induces interleukin 6 gene expression through NF-kappa B activation. Muraoka K, et al. **Transplantation** 1997 Feb 15;63(3):466–70

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S-transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691–4

PHYSIOLOGY

Regulation of ionic conductances and gene expression by hypoxia in an oxygen sensitive cell line. Millhorn DE, et al. **Adv Exp Med Biol** 1996;410:135–42 (17 ref.)

Transcriptional regulation of platelet-activating factor receptor gene expression in leukocytes. Pang JH, et al. **Adv Exp Med Biol** 1996;416:85–7

Adenovirus E1A upregulates interleukin-8 expression induced by endotoxin in pulmonary epithelial cells. Keicho N, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1046–52

A novel role for murine IL-4 in vivo: induction of MUC5AC gene expression and mucin hypersecretion. Temann UA, et al. **Am J Respir Cell Mol Biol** 1997 Apr;16(4):471–8

Recent developments in triple-helix regulation of gene expression. Neidle S. **Anticancer Drug Des** 1997 Jul; 12(5):433–42 (46 ref.)

Up- and downregulation of esr20, an ecdysteroid-regulated gene expressed in the tracheae of Manduca sexta. Mészáros M, et al. **Arch Insect Biochem Physiol** 1997;34(2):159–74

Changes in gene expression during the sleep-waking cycle: a new view of activating systems. Tononi G, et al. **Arch Ital Biol** 1995 Dec;134(1):21–37 (121 ref.)

Control of gene expression in Entamoeba histolytica by a cis-acting upstream regulatory element. Gilchrist CA, et al. **Arch Med Res** 1997;28 Spec No:39–40

Inducible gene expression in Entamoeba histolytica mediated by a tetracycline responsive prokaryotic repressor. Hamann L, et al. **Arch Med Res** 1997;28 Spec No:32–3

Entamoeba histolytica: partial cloning and expression of cDNAs encoding a 30 kDa collagen-binding protein. Jiménez-Delgadillo B, et al. **Arch Med Res** 1997;28 Spec No:173–4

Cloning and expression of E. histolytica gene which includes a putative PDI active site. Kimura A, et al. **Arch Med Res** 1997;28 Spec No:76–7

The secretory pathway of Entamoeba histolytica: characterization and expression of the SRP54 gene. Ramos MA, et al. **Arch Med Res** 1997;28 Spec No:56–8

The secretory pathway of Entamoeba histolytica: characterization and expression of the ERD2 gene. Sánchez-López R, et al. **Arch Med Res** 1997;28 Spec No:59–61

Three conserved cis-acting sequences in the core promoter control gene expression in the protozoan parasite Entamoeba histolytica. Singh U, et al. **Arch Med Res** 1997; 28 Spec No:41–2

Proteoglycan gene expression in rat liver after partial hepatectomy. Gallai M, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):690–4

Expression of glutathione and gamma-glutamylcysteine synthetase mRNA is Jun dependent. Sekhar KR, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):588–93

Structure and expression of ribosomal protein genes in Xenopus laevis. Amaldi F, et al. **Biochem Cell Biol** 1995

Nov-Dec;73(11-12):969-77 (60 ref.)
Molecular cloning and growth hormone-regulated gene expression of carp insulin-like growth factor-I. Hashimoto H, et al. **Biochem Mol Biol Int** 1997 Apr;41(5):877-86
Growth hormone and insulin-like growth factor-I do not activate identical genes in normal human osteoblasts. Melhus H, et al. **Biochem Mol Biol Int** 1996 Feb; 38(2):425-28
DNA methylation: regulation of gene expression and role in the immune system. Mostoslavsky R, et al. **Biochim Biophys Acta** 1997 Aug 8;1333(1):F29-50 (217 ref.)
The Myb oncoprotein: regulating a regulator. Ness SA. **Biochim Biophys Acta** 1996 Dec 9;1288(3):F123-39
pH is critical to the regulation of expression of the beta 2-adrenergic receptor gene in hypoxia. Schmedtje JF Jr, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1-2):25-33
Induction of tetradecanoyl phorbol acetate-inducible sequence (TIS) genes by electroconvulsive shock in rat brain. Jung HY, et al. **Biol Psychiatry** 1996 Sep 15; 40(6):503-7
Hydrocortisone regulates types I and III collagen gene expression and collagen synthesis in human marrow stromal cells. Fernández M, et al. **Biol Res** 1997;30(2):85-90
Cellular distribution and regulation of NHE-1 isoform of the NA-H exchanger in the avian osteoclast. Gupta A, et al. **Bone** 1996 Feb;18(2):87-95
Hypoxia triggers neuroprotective alterations in hippocampal gene expression via a heme-containing sensor. Gage AT, et al. **Brain Res** 1996 May 6;719(1-2):172-8
Opsin gene expression and regulation in retinal transplants. Hoover F, et al. **Brain Res** 1996 Apr 29;718(1-2):124-8
Hypotension-induced expression of the c-fos gene in the medulla oblongata of piglets. Ruggiero DA, et al. **Brain Res** 1996 Jan 15;706(2):199-209
Deafferentiation-induced c-fos gene expression in subthalamic nucleus and substantia nigra reticulata is reduced by non-NMDA receptor antagonist. Saji M, et al. **Brain Res** 1995 Dec 12;703(1-2):165-74
Expression of the rat S100A1 gene in neurons, glia, and skeletal muscle. Song W, et al. **Brain Res** 1996 May 20; 721(1-2):204-16
Enteric neurons express Steel factor-lacZ transgene in the murine gastrointestinal tract. Torihashi S, et al. **Brain Res** 1996 Nov 4;738(2):323-8
Sensory regulation of immediate-early gene expression in mammalian visual cortex: implications for functional mapping and neural plasticity. Kaczmarek L, et al. **Brain Res Brain Res Rev** 1997 Apr;23(3):237-56 (169 ref.)
Positive and negative elements contribute to the cell-specific expression of the rat dopamine beta-hydroxylase gene. Afar R, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):79-92
High frequency transcranial magnetic stimulation mimics the effects of ECS in upregulating astroglial gene expression in the murine CNS. Fujiki M, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):301-8
SEZ-6: promoter selectivity, genomic structure and localized expression in the brain. Herbst R, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):309-22
Global ischemia induces apoptosis-associated genes in hippocampus. Honkaniemi J, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):79-88
Prolonged alteration in E-box binding after a single systemic kainate injection: potential relation to F1/GAP-43 gene expression. Kinney WR, et al. **Brain Res Mol Brain Res** 1996 May;38(1):25-36
Binding preferences of the POU domain protein Brain-4: implications for autoregulation. Malik KF, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):209-21
Gene expression of the transcription factor NF-kappa B in hippocampus: regulation by synaptic activity. Meberg PJ, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):179-90
Gene structure and chromosomal localization of the mouse NMDA receptor channel subunits. Nagasawa M, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):1-11
beta-Amyloid regulates gene expression of glial trophic substance S100 beta in C6 glioma and primary astrocyte cultures. Peña LA, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):118-26
A new Cys2/His2 zinc finger gene, rKr1, expressed in oligodendrocytes and neurons. Pott U, et al. **Brain Res Mol Brain Res** 1996 May;38(1):109-21
Differential spatio-temporal expression of the insulin-like growth factor genes in regenerating sciatic nerve. Pu SF, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):18-28
Changes in hippocampal gene expression associated with the induction of long-term potentiation. Roberts LA, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):123-7
Angiotensin receptor type 1 mRNA in human right ventricular endomyocardial biopsies: downregulation in heart failure. Regitz-Zagrosek V, et al. **Cardiovasc Res** 1997 Jul;35(1):99-105
Protein tyrosine kinase inhibitors act downstream of IL-1 alpha and LPS stimulated MAP-kinase phosphorylation to inhibit expression of E-selectin on human umbilical vein endothelial cells. Adamson P, et al. **Cell Adhes Commun** 1996 Apr;3(6):511-25
Induction of met proto-oncogene (hepatocyte growth factor receptor) expression during human monocyte-macrophage differentiation. Chen Q, et al. **Cell Growth Differ** 1996 Jun; 7(6):821-32
Cell cycle regulation of BRCA1 messenger RNA in human breast epithelial cells. Gudas JM, et al. **Cell Growth Differ** 1996 Jun;7(6):717-23
Collagenase 3 (matrix metalloproteinase 13) gene expression by HaCaT keratinocytes is enhanced by tumor necrosis factor alpha and transforming growth factor beta. Johansson N, et al. **Cell Growth Differ** 1997 Feb;8(2):243-50
p21ras induced differentiation-related gene expression in fetal brown adipocyte primary cells and cell lines. Lorenzo M, et al. **Cell Growth Differ** 1996 Sep;7(9):1251-9
BRCA1 expression is induced before DNA synthesis in both normal and tumor-derived breast cells. Vaughn JP, et al. **Cell Growth Differ** 1996 Jun;7(6):711-5
Molecular cloning of two rat Na+/Pi cotransporters: evidence for differential tissue expression of transcripts. Li H, et al. **Cell Mol Biol Res** 1995;41(5):451-60
Enhancement of glucocorticoid receptor-mediated gene expression by cellular stress: evidence for the involvement of a heat shock-initiated factor or process during recovery from stress. Hu JL, et al. **Cell Stress Chaperones** 1996 Sep; 1(3):197-205
The stress gene response in brain. Massa SM, et al. **Cerebrovasc Brain Metab Rev** 1996 Summer;8(2):95-158 (402 ref.)
Hemodynamic regulation of tumor necrosis factor-alpha gene and protein expression in adult feline myocardium. Kapadia SR, et al. **Circ Res** 1997 Aug;81(2):187-95
Differential regulation of natriuretic peptide genes in infarcted rat hearts. Shimoike H, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):23-30
Gene regulation of brain natriuretic peptide in cardiocyte hypertrophy by alpha1-adrenergic stimulation. Nakagawa O, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S183-5
Towards gene therapy in the nervous system. Doering LC. **Clin Neurosci** 1995-96;3(5):259-61 (14 ref.)
Molecular and cellular plasticity in developing epileptic brain. Noebels JL, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:319-26 (34 ref.)
Chromatin: a sticky silence. Marcand S, et al. **Curr Biol** 1996 Oct 1;6(10):1222-5 (24 ref.)
Genetics and molecular biology [editorial] Seedorf U. **Curr Opin Lipidol** 1996 Apr;7(2):U44-8
Spatial regulation of neuronal gene expression in response to nerve growth factor. Toma JG, et al. **Dev Biol** 1997 Apr 1;184(1):1-9
Activation of the cardiac alpha-actin promoter depends upon serum response factor, Tinman homologue, Nkx-2.5, and intact serum response elements. Chen CY, et al. **Dev Genet** 1996;19(2):119-30
Early environmental regulation of forebrain glucocorticoid receptor gene expression: implications for adrenocortical responses to stress. Meaney MJ, et al. **Dev Neurosci** 1996; 18(1-2):49-72 (138 ref.)
Increased expression of transforming growth factor-beta1 during gastric ulcer healing in rats. Tominaga K, et al. **Dig Dis Sci** 1997 Mar;42(3):616-25
Heregulin-stimulated acetylcholine receptor gene expression in muscle: requirement for MAP kinase and evidence for a parallel inhibitory pathway independent of electrical activity. Altiok N, et al. **EMBO J** 1997 Feb 17;16(4):717-25
Identification of HuR as a protein implicated in AUUUA-mediated mRNA decay. Myer VE, et al. **EMBO J** 1997 Apr 15;16(8):2130-9
MAP kinase- and Rho-dependent signals interact to regulate gene expression but not actin morphology in cardiac muscle cells. Thorburn J, et al. **EMBO J** 1997 Apr 15; 16(8):1888-900
Hypothalamic gonadotropin-releasing hormone gene expression during rat estrous cycle. Suzuki M, et al. **Endocr J** 1995 Dec;42(6):789-796
Characterization of germ cell-specific expression of the orphan nuclear receptor, germ cell nuclear factor. Katz D, et al. **Endocrinology** 1997 Oct;138(10):4364-72
Gem, a GTP-binding protein from mitogen-stimulated T cells, is induced in endothelial cells upon activation by inflammatory cytokines. Vanhove B, et al. **Endothelium** 1997;5(1):51-61
Thyroid hormone receptors are necessary but not sufficient for transcription [comment] Puymirat J. **Eur J Endocrinol** 1996 Dec;135(6):651-2. Comment on: Eur J Endocrinol 1996 Dec;135(6):709-15.
Brain structure and task-specific increase in expression of the gene encoding syntaxin 1B during learning in the rat: a potential molecular marker for learning-induced synaptic plasticity in neural networks. Davis S, et al. **Eur J Neurosci** 1996 Oct;8(10):2068-74
Neurite outgrowth on non-permissive substrates in vitro is enhanced by ectopic expression of the neural adhesion molecule L1 by mouse astrocytes. Mohajeri MH, et al. **Eur J Neurosci** 1996 Jun;8(6):1085-97
Genotypic differences in mesolimbic enkephalin gene expression in DBA/2J and C57BL/6J inbred mice. Ng GY, et al. **Eur J Pharmacol** 1996 Sep 5;311(1):45-52
Peripheral nerve stimulation increases Fos immunoreactivity without affecting type II Ca2+/calmodulin-dependent protein kinase, glutamic acid decarboxylase, or GABAA receptor gene expression in cat spinal cord. Liang F, et al. **Exp Brain Res** 1996 Oct;111(3):326-36
Regulation of islet hormone gene expression by incretin hormones. Fehmann HC, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:56-65 (60 ref.)
Rhythms of cellular immediate-early gene expression: more than just an early response. Carter DA. **Exp Physiol** 1997 Mar;82(2):237-44 (31 ref.)
Synergistic effects of transforming growth factor-beta on the expression of c-fms, macrophage colony-stimulating factor receptor gene, in vascular smooth muscle cells. Inaba T, et al. **FEBS Lett** 1996 Dec 16;399(3):207-10
Characterization of a uterine luminal fluid protein ULF-250 using N-terminal microsequencing and RT-PCR identifies a novel estrogen-regulated gene in the rat uterus. Kumar G P, et al. **FEBS Lett** 1996 Dec 9;399(1-2):33-6
Impaired expression of transcription factor IUF1 in a pancreatic beta-cell line derived from a patient with persistent hyperinsulinaemic hypoglycaemia of infancy (nesidioblastosis). Macfarlane WM, et al. **FEBS Lett** 1997 Aug 18;413(2):304-8
Differential action of AGCF2 upon cell type-dependent expression of human angiotensinogen gene. Yanai K, et al. **FEBS Lett** 1997 Jul 28;412(2):285-9
Regulation of gonadotropin-releasing hormone gene expression in vivo and in vitro. Gore AC, et al. **Front Neuroendocrinol** 1997 Apr;18(2):209-45 (192 ref.)
Direct and indirect mechanisms of repression participate in suppression of T-cell-specific gene expression in T x L-cell hybrids. Shurman L, et al. **Gene Expr** 1996;5(6):285-300
Molecular properties of the proteasome activator PA28 family proteins and gamma-interferon regulation. Tanahashi N, et al. **Genes Cells** 1997 Mar;2(3):195-211
cDNA cloning of the murine Pex gene implicated in X-linked hypophosphatemia and evidence for expression in bone. Du L, et al. **Genomics** 1996 Aug 15;36(1):22-8
Chronic complement C3 gene expression in the CNS of transgenic mice with astrocyte-targeted interleukin-6 expression. Barnum SR, et al. **Glia** 1996 Oct;18(2):107-17
In vitro and in vivo liposome-mediated gene transfer leads to human MDR1 expression in mouse bone marrow progenitor cells. Aksentijevich I, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1111-22
Infection of A549 cells with a recombinant adenovirus vector induces ICAM-1 expression and increased CD-18-dependent adhesion of activated neutrophils. Stark JM, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1669-81
Lack of expression of c-myc oncogene in peripheral blood mononuclear cells of patients with active rheumatoid arthritis. Wanchu A, et al. **Indian J Med Res** 1996 Sep; 104:223-5
Transcription factors and the cardiac gene programme. Doevendans PA, et al. **Int J Biochem Cell Biol** 1996 Apr; 28(4):387-403 (140 ref.)
Coupling transcription to translation: a novel site for the regulation of eukaryotic gene expression. Wolffe AP, et al. **Int J Biochem Cell Biol** 1996 Mar;28(3):247-57 (103 ref.)
Copulatory behavior and fertility in transgenic male mice expressing human placental growth hormone gene. Meliska CJ, et al. **J Androl** 1997 May-Jun;18(3):305-11
Genes expressed in monocyte/macrophage cell differentiation and atherosclerotic plaques in WHHL rabbits. Kumabe T, et al. **J Atheroscler Thromb** 1994;1 Suppl 1:S21
Dominant role of the second heat shock element in expression of the HSP70-1 gene in rat liver after whole body hyperthermia. Konishi T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1021-9
Thrombopoietin-induced expression of the glycoprotein IIb gene involves the transcription factor PU.1/Spi-1 in UT7-Mpl cells. Doubeikovski A, et al. **J Biol Chem** 1997 Sep 26;272(39):24300-7
The expression of the gene coding for the antibacterial peptide LL-37 is induced in human keratinocytes during inflammatory disorders. Frohm M, et al. **J Biol Chem** 1997 Jun 13;272(24):15258-63
Thrombin causes a marked delay in skeletal myogenesis that correlates with the delayed expression of myogenin and p21CIP1/WAF1. Guttridge DC, et al. **J Biol Chem** 1997 Sep 26;272(39):24117-20
The caudal-related homeodomain protein Cdx-2/3 regulates glucagon gene expression in islet cells. Laser B, et al. **J Biol Chem** 1996 Nov 15;271(46):28984-94
Overexpression of HSF2-beta inhibits hemin-induced heat shock gene expression and erythroid differentiation in K562 cells. Leppä S, et al. **J Biol Chem** 1997 Jun 13; 272(24):15293-8
Analysis of signaling pathways used by parathyroid hormone to activate the c-fos gene in human SaOS2 osteoblast-like cells. Evans DB, et al. **J Bone Miner Res** 1996 Aug; 11(8):1066-74
Surface adhesion-mediated regulation of chondrocyte-specific gene expression in the nontransformed RCJ 3.1C5.18 rat chondrocyte cell line. McDougall S, et al. **J Bone Miner Res** 1996 Aug; 11(8):1130-8
Expression patterns of bone-related proteins during osteoblastic differentiation in MC3T3-E1 cells. Choi JY, et al. **J Cell Biochem** 1996 Jun 15;61(4):609-18
Expression of bone-specific genes by hypertrophic chondrocytes: implication of the complex functions of the hypertrophic chondrocyte during endochondral bone development. Gerstenfeld LC, et al. **J Cell Biochem** 1996 Jul;62(1):1-9 (59 ref.)
Specific inhibition of c-fos proto-oncogene expression by triple-helix-forming oligonucleotides. Lavrovsky Y, et al. **J Cell Biochem** 1996 May;61(2):301-9
Stable overexpression of human HSF-1 in murine cells suggests activation rather than expression of HSF-1 to be

the key regulatory step in the heat shock gene expression. Mivechi NF, et al. **J Cell Biochem** 1995 Oct;59(2):266–80

Nuclear structure and function. Stein GS, et al. **J Cell Biochem** 1996 Aug;62(2):147–8

Cytoskeleton regulates expression of genes for transforming growth factor–beta 1 and extracellular matrix proteins in dermal fibroblasts. Varedi M, et al. **J Cell Physiol** 1997 Aug;172(2):192–9

A 182 bp fragment of the mouse pro alpha 1(II) collagen gene is sufficient to direct chondrocyte expression in transgenic mice. Zhou G, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3677–84

Comparison of the expression of a T alpha 1:nlacZ transgene and T alpha 1 alpha–tubulin mRNA in the mature central nervous system. Bamji SX, et al. **J Comp Neurol** 1996 Oct 7;374(1):52–69

Localization of neurons expressing substance P and neurokinin B gene transcripts in the human hypothalamus and basal forebrain. Chawla MK, et al. **J Comp Neurol** 1997 Aug 4;384(3):429–42

Mediation of dehydration–induced peptidergic gene expression in the rat lateral hypothalamic area by forebrain afferent projections. Kelly AB, et al. **J Comp Neurol** 1996 Jun 24;370(2):231–46

Some new twists in the regulation of gene expression by thyroid hormone and retinoic acid receptors. Glass CK. **J Endocrinol** 1996 Sep;150(3):349–57 (64 ref.)

Differences in the regulation of cytochrome P450 family members during liver regeneration. Trautwein C, et al. **J Hepatol** 1997 Jan;26(1):48–54

Cloning of chicken interferon regulatory factor–2 (IRF–2) cDNA: expression and mapping of the IRF–2 gene. Marienfeld R, et al. **J Interferon Cytokine Res** 1997 Apr; 17(4):219–27

Microsomal triglyceride transfer protein in CaCo–2 cells: characterization and regulation. Mathur SN, et al. **J Lipid Res** 1997 Jan;38(1):61–7

Uncoupling of biliary phospholipid and cholesterol secretion in mice with reduced expression of mdr2 P–glycoprotein. Oude Elferink RP, et al. **J Lipid Res** 1996 May; 37(5):1065–75

AT1 receptor gene regulation in cardiac myocytes and fibroblasts. Everett AD, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1727–36

Differences in expression of sarcoplasmic reticulum Ca2+–ATPase and Na+–Ca2+ exchanger genes between adjacent and remote noninfarcted myocardium after myocardial infarction. Yoshiyama M, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):255–64

Changes in expression of neurohypophysial hormone genes during spawning migration in chum salmon, Oncorhynchus keta. Hiraoka S, et al. **J Mol Endocrinol** 1997 Feb; 18(1):49–55

Neutral and nonneutral mutations: the creative mix—evolution of complexity in gene interaction systems [published erratum appears in J Mol Evol 1997 Apr;44(4):470] Zuckerkandl E. **J Mol Evol** 1997;44 Suppl 1:S2–8 (20 ref.)

Evidence of alternative promoters directing isoform–specific expression of human endothelin–converting enzyme–1 mRNA in cultured endothelial cells. Orzechowski HD, et al. **J Mol Med** 1997 Jul;75(7):512–21

Seizure–related changes in the glutamate R2 and R5 receptor genes expression in the rat hippocampal formation. Lasoń W, et al. **J Neural Transm** 1997;104(2–3):125–33

CNTF overproduction hastens onset of symptoms in motor neuron degeneration (mnd) mice. Winter CG, et al. **J Neurobiol** 1996 Nov;31(3):370–8

Temporally manipulated rescue of visual and courtship abnormalities caused by a nonA mutation in Drosophila. Rendahl KG, et al. **J Neurogenet** 1996 Sep;10(4):247–56

Transcriptional regulation of chemokine gene expression in astrocytes. Majumder S, et al. **J Neurosci Res** 1996 Sep 15;45(6):758–69 (79 ref.)

The major myelin protein genes are expressed in the human thymus. Pribyl TM, et al. **J Neurosci Res** 1996 Sep 15; 45(6):812–9

Differential expression of the heavy–chain ferritin gene in non–adhered and adhered oligodendrocytes. Sanyal B, et al. **J Neurosci Res** 1996 Oct 15;46(2):187–97

Biased expression of T cell receptor genes characterizes activated T cells in multiple sclerosis cerebrospinal fluid. Usuku K, et al. **J Neurosci Res** 1996 Sep 15;45(6):829–37

Expression of genes that promote renal interstitial fibrosis in rats with proteinuria. Eddy AA. **Kidney Int Suppl** 1996 May;54:S49–54 (24 ref.)

Regulation of gene expression in the nervous system by reactive oxygen and nitrogen species. Merrill JE, et al. **Metab Brain Dis** 1997 Jun;12(2):97–112 (135 ref.)

Induction of mRNAs for the growth hormone receptor gene during mouse 3T3–L1 preadipocyte differentiation. Zou L, et al. **Metabolism** 1997 Jan;46(1):114–8

Isolation of cytokine–inducible genes from hematopoietic cells by differential display. Zhu Y, et al. **Methods Mol Biol** 1997;85:153–61

Regulation of Oct–4 gene expression during differentiation of EC cells. Schoorlemmer J, et al. **Mol Biol Rep** 1995; 21(3):129–40

Differential binding of the Bombyx silk gland–specific factor SGFB to its target DNA sequence drives posterior–cell–restricted expression. Horard B, et al. **Mol Cell Biol** 1997 Mar;17(3):1572–9

Ectopic expression of Hel–N1, an RNA–binding protein, increases glucose transporter (GLUT1) expression in 3T3–L1 adipocytes. Jain RG, et al. **Mol Cell Biol** 1997 Feb;17(2):954–62

The mammalian transcriptional repressor RBP (CBF1) regulates interleukin–6 gene expression. Kannabiran C, et al. **Mol Cell Biol** 1997 Jan;17(1):1–9

AP–1–mediated invasion requires increased expression of the hyaluronan receptor CD44. Lamb RF, et al. **Mol Cell Biol** 1997 Feb;17(2):963–76

A new member of the I kappaB protein family, I kappaB epsilon, inhibits RelA (p65)–mediated NF–kappaB transcription. Li Z, et al. **Mol Cell Biol** 1997 Oct; 17(10):6184–90

Identification and characterization of a nucleolar phosphoprotein, Nopp140, as a transcription factor. Miau LH, et al. **Mol Cell Biol** 1997 Jan;17(1):230–9

Mechanism of repression of RNA polymerase I transcription by the retinoblastoma protein. Voit R, et al. **Mol Cell Biol** 1997 Aug;17(8):4230–7

Rac regulation of transformation, gene expression, and actin organization by multiple, PAK–independent pathways. Westwick JK, et al. **Mol Cell Biol** 1997 Mar;17(3):1324–35

Repression of gonadotropin–releasing hormone promoter activity by the POU homeodomain transcription factor SCIP/Oct–6/Tst–1: a regulatory mechanism of phenotype expression? Wierman ME, et al. **Mol Cell Biol** 1997 Mar; 17(3):1652–65

Protein kinase C pathway potentiates androgen–mediated gene expression of the mouse vas deferens specific aldose reductase–like protein (MVDP). Fabre S, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):79–86

Transcriptional and post–transcriptional regulation of rainbow trout estrogen receptor and vitellogenin gene expression. Flouriot G, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):173–83

Removal of milk by suckling acutely increases the prolactin receptor gene expression in the lactating mouse mammary gland. Kim JY, et al. **Mol Cell Endocrinol** 1997 Jul 4; 131(1):31–8

Structure and expression of the mouse oxytocin receptor gene. Kubota Y, et al. **Mol Cell Endocrinol** 1996 Nov 29; 124(1–2):25–32

Transcriptional regulation of the human chromogranin A gene by its 5' distal regulatory element: novel effects of orientation, structure, flanking sequences, and position on expression. Nolan EM, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):51–62

Neuroendocrine regulation of the hypothalamic pituitary adrenal axis by the nurr1/nur77 subfamily of nuclear receptors. Murphy EP, et al. **Mol Endocrinol** 1997 Jan; 11(1):39–47

Gonadotropin alpha–subunit glycoprotein from channel catfish (Ictalurus punctatus) and its expression during hormone–induced ovulation. Liu Z, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):217–27

Cytokines secreted by glial cells infected with HTLV–I modulate the expression of matrix metalloproteinases (MMPs) and their natural inhibitor (TIMPs): possible involvement in neurodegenerative processes. Giraudon P, et al. **Mol Psychiatry** 1997 Mar;2(2):107–10, 84 (23 ref.)

Can cysteine direct tyrosine in signal transduction for environment–oriented gene control? Nakashima I. **Nagoya J Med Sci** 1996 Mar;59(1–2):1–10 (72 ref.)

A homologue of Drosophila tissue polarity gene frizzled is expressed in migrating myofibroblasts in the infarcted rat heart. Blankesteijn WM, et al. **Nat Med** 1997 May; 3(5):541–4

Distinct functions of nuclear and cytoplasmic calcium in the control of gene expression. Hardingham GE, et al. **Nature** 1997 Jan 16;385(6613):260–5

Modulation of endothelin family gene expression in renal hypertrophy. Nakamura T, et al. **Nephron** 1996; 73(2):228–34

Negative regulation of gene expression in eukaryotes. Imagawa M. **Neurochem Int** 1996 Dec;29(6):565–72 (35 ref.)

Cascade of gene expression induced by Ca2+ signals in neurons. Tsuda M. **Neurochem Int** 1996 Nov;29(5):443–51 (49 ref.)

Rapid identification of novel genes expressed in a circadian manner in rat suprachiasmatic nuclei. Chong NW, et al. **Neuroreport** 1996 Apr 26;7(6):1199–203

Expression of the neuropeptide Y Y1 receptor mRNA in the human brain: an in situ hybridization study. Jacques D, et al. **Neuroreport** 1996 Apr 10;7(5):1053–6

Brain gene regulation by territorial singing behavior in freely ranging songbirds. Jarvis ED, et al. **Neuroreport** 1997 May 27;8(8):2073–7

Modulation of IL–1 beta gene expression in the rat CNS during sleep deprivation. Mackiewicz M, et al. **Neuroreport** 1996 Jan 31;7(2):529–33

Gene expressions of ubiquitin and hsp70 following focal ischaemia in rat brain. Noga M, et al. **Neuroreport** 1997 Mar 24;8(5):1239–41

Age–related changes in the regulation of transcription factor NF–kappa B in rat brain. Korhonen P, et al. **Neurosci Lett** 1997 Mar 28;225(1):61–4

Changes in striatal immediate early gene expression following neonatal dopaminergic lesion and effects of intrastriatal dopaminergic transplants. Abrous DN, et al. **Neuroscience** 1996 Jul;73(1):145–59

Diversity in cell specific co–expression of four neuropeptide genes involved in control of male copulation behaviour in Lymnaea stagnalis. De Lange RP, et al. **Neuroscience** 1997 May;78(1):289–99

Effects of cholinergic denervation on seizure development and neurotrophin messenger RNA regulation in rapid hippocampal kindling. Ferencz I, et al. **Neuroscience** 1997 Sep;80(2):389–99

Muscarinic receptors regulate striatal neuropeptide gene expression in normal and amphetamine–treated rats. Wang JQ, et al. **Neuroscience** 1996 Nov;75(1):43–56

alpha1B adrenoceptors in rat paraventricular nucleus overlap with, but do not mediate, the induction of c–Fos expression by osmotic or restraint stress. Williams AM, et al. **Neuroscience** 1997 Feb;76(3):901–13

Mechanisms regulating proenkephalin gene expression: contributions of transgenic models. Hyman SE, et al. **NIDA Res Monogr** 1996;161:59–71 (40 ref.)

High expression of the tec gene product in murine testicular germ cells and erythroblasts. Kazama A, et al. **Pathol Int** 1996 May;46(5):341–7

Differential allelic expression of lactoproteins: a model to study transcriptional regulation. Dovč P, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R203–4

Intermediate filaments and gene regulation. Traub P. **Physiol Chem Phys Med NMR** 1995;27(4):377–400 (142 ref.)

Stochastic mechanisms in gene expression. McAdams HH, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):814–9

Gene cloning: studies of nutritional regulation of gene expression. Hesketh JE, et al. **Proc Nutr Soc** 1996 Mar; 55(1B):575–81 (12 ref.)

The regulation of expression of integrin receptors. Kim LT, et al. **Proc Soc Exp Biol Med** 1997 Feb;214(2):123–31 (118 ref.)

Effects of swimming training on brown–adipose–tissue activity in obese ob/ob mice: GDP binding and UCP m–RNA expression. Ueno N, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan;95(1):92–104

Genes mediating glucocorticoid effects and mechanisms of their regulation. Geley S, et al. **Rev Physiol Biochem Pharmacol** 1996;128:1–97 (554 ref.)

Regulation of the tissue factor gene. Mackman N. **Thromb Haemost** 1997 Jul;78(1):747–54 (49 ref.)

The regulation of histidine decarboxylase gene expression. Höcker M, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):21–33 (62 ref.)

[Effects of hyperglycemia in the transmission of the insulin message] Hauguel–de Mouzon S, et al. **Journ Annu Diabetol Hotel Dieu** 1996;:145–56 (85 ref.) **(Fre)**

[Oxygen radicals as second messengers of gene expression] Schulze–Osthoff K, et al. **Dtsch Med Wochenschr** 1996 Oct 18;121(42):1301–2 **(Ger)**

[Methods of studying transcriptional regulation of gene expression] Abe T. **Nippon Rinsho** 1996 Feb;54(2):316–21 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Scavenger receptor gene—regulation of scavenger receptor gene expression in alveolar macrophages and the pathogenesis of pulmonary alveolar proteinosis] Mori T, et al. **Nippon Rinsho** 1996 Feb;54(2):353–7 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Cross–talk between transcription factors AP–1 and NFAT in the regulation of gene expression] Kamińska B, et al. **Postepy Biochem** 1996;42(2):120–8 (51 ref.) **(Pol)**

[Do we already know the death gene?] Sikora E. **Postepy Biochem** 1995;41(4):210–1 (12 ref.) **(Pol)**

[Identification and expression of plasmid genes participating in the synthesis of microcin C51] Fomenko DE, et al. **Genetika** 1996 Oct;32(10):1326–32 (Eng. Abstr.) **(Rus)**

[Expression of the mutant gene mi in mice: white spotting pattern] Koniukhov BV, et al. **Genetika** 1996 Nov; 32(11):1521–7 (Eng. Abstr.) **(Rus)**

[Analysis of homologous DNA sequences within the first intron of the mouse and human mts1 genes: kB–like site and microsatellite DNA] Prokhorchuk EB, et al. **Genetika** 1996 Oct;32(10):1317–25 (Eng. Abstr.) **(Rus)**

[Effect of genetic background on mutation frequency of insertional alleles of the lozenge in Drosophila melanogaster] Voloshina MA, et al. **Genetika** 1996 May; 32(5):641–8 (Eng. Abstr.) **(Rus)**

[Mechanisms of transcriptional regulation of interferon–induced genes: description in the IIG–TRRD information system] Anan'ko EA, et al. **Mol Biol (Mosk)** 1997 Jul–Aug;31(4):701–13 (98 ref.) **(Rus)**

[Mechanisms of glucocorticoid regulation and regulatory regions of genes, controlled by glucocorticoids: description in the TRDD database] Merkulova TI, et al. **Mol Biol (Mosk)** 1997 Jul–Aug;31(4):714–25 **(Rus)**

[The temperature dependence of selection efficiency and the expression of the genes controlling the rate of embryonic development in Drosophila melanogaster] Neifakh AA, et al. **Ontogenez** 1996 Nov–Dec;27(6):457–64 (Eng. Abstr.) **(Rus)**

[An immunohistochemical study of the expression of transcription factor Oct3/4 in mouse spermatogenesis] Tomilin AN, et al. **Tsitologiia** 1996;38(12):1274–9 (Eng. Abstr.) **(Rus)**

[The effect of the implantation of the human apo A–I gene on the function of the hepatocyte plasma membrane in rats] Frol'kis VV, et al. **Ukr Biokhim Zh** 1996 Mar–Apr; 68(2):73–7 (Eng. Abstr.) **(Rus)**

[The genotypic correlations of the expression of anxiety and

dopamine metabolism in the mouse brain] Popova NK, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):904–10 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Gene regulation by low–dose ionizing radiation in a normal human lung epithelial cell line. Robson TA, et al. **Biochem Soc Trans** 1997 Feb;25(1):335–42

Activation of mammalian gene expression by the UV component of sunlight—from models to reality. Tyrrell RM. **Bioessays** 1996 Feb;18(2):139–48 (77 ref.)

Tumor necrosis factor alpha (TNF–alpha) gene therapy targeted by ionizing radiation selectively damages tumor vasculature. Mauceri HJ, et al. **Cancer Res** 1996 Oct 1; 56(19):4311–4

Modulation of TGF–beta 1 production from human keratinocytes by UVB. Lee HS, et al. **Exp Dermatol** 1997 Apr;6(2):105–10

Short photoperiod reduces leptin gene expression in white and brown adipose tissue of Djungarian hamsters. Klingenspor M, et al. **FEBS Lett** 1996 Dec 16;399(3):290–4

Induction of the suicide HSV–TK gene by activation of the Egr–1 promoter with radioisotopes. Takahashi T, et al. **Hum Gene Ther** 1997 May 1;8(7):827–33

Regulation of p53 in response to ionizing radiation in ataxia telangiectasia fibroblasts. Jung M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):417–22

Failure of a second X–ray dose to activate nuclear factor kappaB in normal rat astrocytes. Raju U, et al. **J Biol Chem** 1997 Sep 26;272(39):24624–30

Ultraviolet light attenuates heat–inducible gene expression. Qiu L, et al. **J Cell Physiol** 1997 Sep;172(3):314–22

Regulation of the vgf gene in the golden hamster suprachiasmatic nucleus by light and by the circadian clock. Wisor JP, et al. **J Comp Neurol** 1997 Feb 10; 378(2):229–38

Wavelength–specific induction of immediate early genes by ultraviolet radiation. Ariizumi K, et al. **J Dermatol Sci** 1996 Jun;12(2):147–55

Suppression of UVB–induced c–fos and c–jun expression in human keratinocytes by N–acetylcysteine. Garmyn M, et al. **J Photochem Photobiol B** 1997 Jan;37(1–2):125–30

Radiation–enhanced expression of interferon–inducible genes in the KG1a primitive hematopoietic cell line. Clave E, et al. **Leukemia** 1997 Jan;11(1):114–9

Differential regulation of the p21/WAF–1 and mdm2 genes after high–dose UV irradiation: p53–dependent and p53–independent regulation of the mdm2 gene. Wu L, et al. **Mol Med** 1997 Jul;3(7):441–51

Radiation–induced apoptosis in developing rats and kainic acid–induced excitotoxicity in adult rats are associated with distinctive morphological and biochemical c–Jun/AP–1 (N) expression. Ferrer I, et al. **Neuroscience** 1997 Sep; 80(2):449–58

Cell cycle effects and concomitant p53 expression in hairless murine skin after longwave UVA (365 nm) irradiation: a comparison with UVB irradiation. de Laat A, et al. **Photochem Photobiol** 1997 Apr;65(4):730–5

The Chlamydomonas reinhardtii LI818 gene represents a distant relative of the cabI/II genes that is regulated during the cell cycle and in response to illumination. Savard F, et al. **Plant Mol Biol** 1996 Nov;32(3):461–73

Differential regulation of chloroplast gene expression in Chlamydomonas reinhardtii during photoacclimation: light stress transiently suppresses synthesis of the Rubisco LSU protein while enhancing synthesis of the PS II D1 protein. Shapira M, et al. **Plant Mol Biol** 1997 Apr;33(6):1001–11

Ultraviolet B–radiation dose influences the induction of apoptosis and p53 in human keratinocytes. Cotton J, et al. **Radiat Res** 1997 Feb;147(2):148–55

Immunohistochemical localization of transforming growth factor beta and tumor necrosis factor alpha in the lungs of fibrosis–prone and "non–fibrosing" mice during the latent period and early phase after irradiation. Franko AJ, et al. **Radiat Res** 1997 Feb;147(2):245–56

Further investigation of the response of human uroepithelium to low doses of cobalt–60 gamma radiation. Mothersill C, et al. **Radiat Res** 1997 Feb;147(2):156–65

Radiation–induced alteration of rat mesangial cell transforming growth factor–beta and expression of the genes associated with the extracellular matrix. Wang J, et al. **Radiat Res** 1996 Nov;146(5):561–8

GENE EXPRESSION REGULATION, BACTERIAL

CO2 regulation of virulence genes in enteropathogenic Escherichia coli. Haigh RD, et al. **Adv Exp Med Biol** 1997; 412:253–6

A novel regulatory mechanism for a novel phase–variable outer membrane protein of Escherichia coli. Henderson IR, et al. **Adv Exp Med Biol** 1997;412:349–55

Differential gene expression by Pseudomonas aeruginosa during interaction with respiratory mucus. Lory S, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S183–6

Genetic analysis of the Bordetella–host interaction. Cotter PA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:65–76

rRNA transcription and growth rate–dependent regulation of ribosome synthesis in Escherichia coli. Gourse RL, et al. **Annu Rev Microbiol** 1996;50:645–77 (157 ref.)

Regulation of pectinolysis in Erwinia chrysanthemi. Hugouvieux–Cotte–Pattat N, et al. **Annu Rev Microbiol** 1996;50:213–57 (154 ref.)

Regulation of ammonia assimilation in an obligate methylotroph Methylobacillus flagellatum under steady–state and transient growth conditions. Baev MV, et al. **Antonie Van Leeuwenhoek** 1997 May;71(4):353–61

Inducible gene expression and environmentally regulated genes in lactic acid bacteria. Kok J. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):129–45 (77 ref.)

Organic solvent tolerance and antibiotic resistance increased by overexpression of marA in Escherichia coli. Asako H, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1428–33

Molecular characterization of an inducible p–coumaric acid decarboxylase from Lactobacillus plantarum: gene cloning, transcriptional analysis, overexpression in Escherichia coli, purification, and characterization. Cavin JF, et al. **Appl Environ Microbiol** 1997 May;63(5):1939–44

Amy as a reporter gene for promoter activity in Nocardia lactamdurans: comparison of promoters of the cephamycin cluster. Chary VK, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):2977–82

Cloning, nucleotide sequence, and regulatory analysis of the Nitrosomonas europaea dnaK gene. Iizumi T, et al. **Appl Environ Microbiol** 1997 May;63(5):1777–84

Polyhydroxyalkanoate production in Rhodobacter capsulatus: genes, mutants, expression, and physiology. Kranz RG, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3003–9

Evaluation of a novel subtilisin inhibitor gene and mutant derivatives for the expression and secretion of mouse tumor necrosis factor alpha by Streptomyces lividans. Lammertyn E, et al. **Appl Environ Microbiol** 1997 May;63(5):1808–13

Unique regulation of crystal protein production in Bacillus thuringiensis subsp. yunnanensis is mediated by the cry protein–encoding 103–megadalton plasmid. Srinivas G, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2792–7

Use of a promoterless lacZ gene insertion to investigate chitinase gene expression in the marine bacterium Pseudoalteromonas sp. strain S9. Techkarnjanaruk S, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2989–96

Cloning, sequencing, and characterization of a gene (narT) encoding a transport protein involved in dissimilatory nitrate reduction in Staphylococcus carnosus. Fast B, et al. **Arch Microbiol** 1996 Dec;166(6):361–7

The sae locus of Staphylococcus aureus controls exoprotein synthesis at the transcriptional level. Giraudo AT, et al. **Arch Microbiol** 1997 Jul;168(1):53–8

Ammonia–excreting mutants of Klebsiella pneumoniae with a pleiotropic defect in nitrogen metabolism. Kuczius T, et al. **Arch Microbiol** 1996 Dec;166(6):388–93

The kil gene of the ColE1 plasmid of Escherichia coli controlled by a growth–phase–dependent promoter mediates the secretion of a heterologous periplasmic protein during the stationary phase. Miksch G, et al. **Arch Microbiol** 1997 Feb–Mar;167(2–3):143–50

Two genes encoding an endoglucanase and a cellulose–binding protein are clustered and co–regulated by a TTA codon in Streptomyces halstedii JM8. Garda AL, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):403–11

Expression of an exogenous isopentenyl diphosphate isomerase gene enhances isoprenoid biosynthesis in Escherichia coli. Kajiwara S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):421–6

Regulation of promoters by two transcription activators: evidence for a 'simultaneous touching' model. Savery N, et al. **Biochem Soc Trans** 1996 May;24(2):351–3 (9 ref.)

A new sigma factor homolog in a cyanobacterium: cloning, sequencing, and light–responsive transcripts of rpoD2 from Microcystis aeruginosa K–81. Asayama M, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):31–6

Expression of glutamyl–tRNA reductase in Escherichia coli. Chen W, et al. **Biochim Biophys Acta** 1996 Nov 11; 1309(1–2):109–21

A grammar describing biological binding operators 'to model gene regulation. Bentolila S. **Biochimie** 1996;78(5):335–50

Towards a unified grammatical model of sigma 70 and sigma 54 bacterial promoters. Collado–Vides J. **Biochimie** 1996; 78(5):351–63

Decrease in expression of the master operon of flagellin synthesis in a dnaA46 mutant of Escherichia coli. Mizushima T, et al. **Biol Pharm Bull** 1997 Apr;20(4):327–31

Use of pEX and pGEX bacterial heterologous protein expression systems for recombinant oncoprotein production and antisera generation. Pompéia C, et al. **Biotechnol Appl Biochem** 1997 Jun;25 (Pt 3):207–15

Overexpression, purification, and analysis of the c1 repressor protein of Pseudomonas aeruginosa bacteriophage D3. Farinha MA, et al. **Can J Microbiol** 1997 Mar;43(3):220–6

Expression of T–cell receptor V beta 2 and type 1 helper T–cell–related cytokine mRNA in streptococcal pyrogenic exotoxin–C–activated human peripheral blood mononuclear cells. Ohara–Nemoto Y, et al. **Can J Microbiol** 1996 Nov;42(11):1104–11

Two–stage gene regulation of the superoxide stress response soxRS system in Escherichia coli. Nunoshiba T. **Crit Rev Eukaryot Gene Expr** 1996;6(4):377–89 (92 ref.)

Activation and repression of E. coli promoters. Gralla JD. **Curr Opin Genet Dev** 1996 Oct;6(5):526–30 (41 ref.)

Identification, sequences, and expression of Treponema pallidum chemotaxis genes. Greene SR, et al. **DNA Seq** 1997;7(5):267–84

Cloning, DNA sequence, and regulation of expression of a gene encoding beta–galactosidase from Lactococcus lactis. Griffin HG, et al. **DNA Seq** 1996;6(6):337–46

A long–range RNA–RNA interaction forms a pseudoknot required for translational control of the IF3–L35–L20 ribosomal protein operon in Escherichia coli. Chiaruttini C, et al. **EMBO J** 1996 Aug 15;15(16):4402–13

Spacing of promoter elements regulates the basal expression of the soxS gene and converts SoxR from a transcriptional activator into a repressor. Hidalgo E, et al. **EMBO J** 1997 Mar 3;16(5):1056–65

Isolation of the gene encoding Pyrococcus furiosus ornithine carbamoyltransferase and study of its expression profile in vivo and in vitro. Roovers M, et al. **Eur J Biochem** 1997 Aug 1;247(3):1038–45

Bacillus subtilis DegU acts as a positive regulator for comK expression. Ogura M, et al. **FEBS Lett** 1996 Nov 18; 397(2–3):173–6

Aerobic and anaerobic regulation of the ubiCA operon, encoding enzymes for the first two committed steps of ubiquinone biosynthesis in Escherichia coli. Søballe B, et al. **FEBS Lett** 1997 Sep 8;414(2):373–6

Characterization of the ATPase activity of the N–terminal nucleotide binding domain of an ABC transporter involved in oleandomycin secretion by Streptomyces antibioticus. Aparicio G, et al. **FEMS Microbiol Lett** 1996 Aug 1; 141(2–3):157–62

Regulation of the iron uptake genes in Pseudomonas fluorescens M114 by pseudobactin M114: the pbrA sigma factor gene does not mediate the siderophore regulatory response. Callanan M, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):61–6

Constitutive expression of Pasteurella multocida toxin. Hoskins IC, et al. **FEMS Microbiol Lett** 1996 Aug 1; 141(2–3):189–93

MetR–mediated repression of the glyA gene in Escherichia coli. Lorenz E, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2–3):229–33

Identification of the pac promoter from Kluyvera citrophila. Roa A, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):9–16

Characterization of dnaA gene expression in Mycoplasma capricolum. Seto S, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):239–47

Construction and characterization of new corynebacterial plasmids carrying the alpha–amylase gene. Ugorčáková J, et al. **Folia Microbiol (Praha)** 1996;41(1):10–4

Transcriptional regulation of a second flavodoxin gene from Klebsiella pneumoniae. Achenbach LA, et al. **Gene** 1997 Jul 31;194(2):235–40

A simple screening for mutant DNA binding proteins: application to murine transcription factor PEBP2alpha subunit, a founding member of the Runt domain protein family. Akamatsu Y, et al. **Gene** 1997 Jan 31;185(1):111–7

Isolation and characterization of csbB, a gene controlled by Bacillus subtilis general stress transcription factor sigma B. Akbar S, et al. **Gene** 1996 Oct 24;177(1–2):123–8

A novel bacterial vector system for monitoring protein–protein interactions in the cAMP–dependent protein kinase complex. Cairns MT, et al. **Gene** 1997 Jan 31;185(1):5–9

Redox signaling and gene control in the Escherichia coli soxRS oxidative stress regulon—a review. Demple B. **Gene** 1996 Nov 7;179(1):53–7 (25 ref.)

Escherichia coli strain for thermoinducible T7 RNA polymerase–driven expression. Fedorova ND, et al. **Gene** 1996 Oct 24;177(1–2):267–8

Identification of a new sigmaB–controlled gene, csbX, in Bacillus subtilis. Gomez M, et al. **Gene** 1997 Mar 25; 188(1):29–33

The RLEP–flanked polA gene from Mycobacterium leprae is not transcribed in Mycobacterium smegmatis. Gordhan BG, et al. **Gene** 1997 Mar 10;187(1):63–6

Characterization of the genes encoding integrative and excisive functions of Lactobacillus phage øg1e: cloning, sequence analysis, and expression in Escherichia coli. Kakikawa M, et al. **Gene** 1997 Jan 31;185(1):119–25

The sensing of plant signal molecules by Agrobacterium: genetic evidence for direct recognition of phenolic inducers by the VirA protein. Lee YW, et al. **Gene** 1996 Nov 7; 179(1):83–8 (20 ref.)

Regulation of the oxidative stress protective enzymes, catalase and superoxide dismutase in Xanthomonas—a review. Loprasert S, et al. **Gene** 1996 Nov 7;179(1):33–7 (25 ref.)

Translation attenuation regulation of chloramphenicol resistance in bacteria—a review. Lovett PS. **Gene** 1996 Nov 7;179(1):157–62 (20 ref.)

Cloning, sequencing and expressing the carotenoid biosynthesis genes, lycopene cyclase and phytoene desaturase, from the aerobic photosynthetic bacterium Erythrobacter longus sp. strain Och101 in Escherichia coli. Matsumura H, et al. **Gene** 1997 Apr 21;189(2):169–74

Cloning and expression of AatII restriction–modification system in Escherichia coli. Nwankwo DO, et al. **Gene** 1997 Jan 31;185(1):105–9

Novel series of plasmid vectors for gene inactivation and expression analysis in group A streptococci (GAS). Podbielski A, et al. **Gene** 1996 Oct 24;177(1–2):137–47

Transcriptional analysis and regulation of carnobacteriocin production in Carnobacterium piscicola LV17. Saucier L, et al. **Gene** 1997 Apr 1;188(2):271–7

Molecular characterization and organization of porin from Rhodobacter capsulatus strain 37B4. Trieschmann MD, et

al. **Gene** 1996 Dec 12;183(1-2):61-8

Histone-like protein HU as a specific transcriptional regulator: co-factor role in repression of gal transcription by GAL repressor. Aki T, et al. **Genes Cells** 1996 Feb; 1(2):179-88

Differential thermoregulation of two highly homologous cold-shock genes, cspA and cspB, of Escherichia coli. Etchegaray JP, et al. **Genes Cells** 1996 Feb;1(2):171-8

The various strategies within the TyrR regulation of Escherichia coli to modulate gene expression. Pittard J. **Genes Cells** 1996 Aug;1(8):717-25 (48 ref.)

How is osmotic regulation of transcription of the Escherichia coli proU operon achieved? A review and a model. Gowrishankar J, et al. **Genetica** 1996 May;97(3):363-78 (140 ref.)

Induction of a type 1 immune response to a recombinant antigen from Mycobacterium tuberculosis expressed in Mycobacterium vaccae. Abou-Zeid C, et al. **Infect Immun** 1997 May;65(5):1856-62

Staphylococcal accessory regulator (sar) in conjunction with agr contributes to Staphylococcus aureus virulence in endophthalmitis. Booth MC, et al. **Infect Immun** 1997 Apr; 65(4):1550-6

SlyA, a transcriptional regulator of Salmonella typhimurium, is required for resistance to oxidative stress and is expressed in the intracellular environment of macrophages. Buchmeier N, et al. **Infect Immun** 1997 Sep;65(9):3725-30

Expression of Salmonella typhimurium rpoS and rpoS-dependent genes in the intracellular environment of eukaryotic cells. Chen CY, et al. **Infect Immun** 1996 Nov; 64(11):4739-43

Regulation of protein A synthesis by the sar and agr loci of Staphylococcus aureus. Cheung AL, et al. **Infect Immun** 1997 Jun;65(6):2243-9

The gene slyA of Salmonella typhimurium is required for destruction of M cells and intracellular survival but not for invasion or colonization of the murine small intestine. Daniels JJ, et al. **Infect Immun** 1996 Dec;64(12):5075-84

Reduced virulence of Candida albicans MKC1 mutants: a role for mitogen-activated protein kinase in pathogenesis. Diez-Orejas R, et al. **Infect Immun** 1997 Feb;65(2):833-7

Identification and characterization of a novel PrfA-regulated gene in Listeria monocytogenes whose product, IrpA, is highly homologous to internalin proteins, which contain leucine-rich repeats. Domann E, et al. **Infect Immun** 1997 Jan;65(1):101-9

Promoter activities in Vibrio cholerae ctx phi prophage. Fando R, et al. **Infect Immun** 1997 Apr;65(4):1561-5

Pseudomonas aeruginosa-mediated cytotoxicity and invasion correlate with distinct genotypes at the loci encoding exoenzyme S. Fleiszig SM, et al. **Infect Immun** 1997 Feb; 65(2):579-86

Differential influence of the two Bacillus anthracis plasmids on regulation of virulence gene expression. Fouet A, et al. **Infect Immun** 1996 Dec;64(12):4928-32

Transcriptional regulation of the Staphylococcus aureus collagen adhesion gene, cna. Gillaspy AF, et al. **Infect Immun** 1997 Apr;65(4):1536-40

Expression of aerobactin genes by Shigella flexneri during extracellular and intracellular growth. Headley V, et al. **Infect Immun** 1997 Feb;65(2):818-21

Effects of overexpression of the alkyl hydroperoxide reductase AhpC on the virulence and isoniazid resistance of Mycobacterium tuberculosis. Heym B, et al. **Infect Immun** 1997 Apr;65(4):1395-401

An iron- and fur-repressed Legionella pneumophila gene that promotes intracellular infection and encodes a protein with similarity to the Escherichia coli aerobactin synthetases. Hickey EK, et al. **Infect Immun** 1997 Jan; 65(1):133-43

The anthrax toxin activator gene atxA is associated with CO2-enhanced non-toxin gene expression in Bacillus anthracis. Hoffmaster AR, et al. **Infect Immun** 1997 Aug; 65(8):3091-9

Cell-density-dependent expression of Borrelia burgdorferi lipoproteins in vitro. Indest KJ, et al. **Infect Immun** 1997 Apr;65(4):1165-71

Effect of growth phase and acid shock on Helicobacter pylori cagA expression. Karita M, et al. **Infect Immun** 1996 Nov; 64(11):4501-7

Simultaneous prevention of glutamine synthesis and high-affinity transport attenuates Salmonella typhimurium virulence. Klose KE, et al. **Infect Immun** 1997 Feb; 65(2):587-96

Positive regulation of Clostridium difficile toxins. Moncrief JS, et al. **Infect Immun** 1997 Mar;65(3):1105-8

Analysis of expression of the alpha-toxin gene (hla) of Staphylococcus aureus by using a chromosomally encoded hla::lacZ gene fusion. Ohlsen K, et al. **Infect Immun** 1997 Sep;65(9):3606-14

Evidence that PrfA, the pleiotropic activator of virulence genes in Listeria monocytogenes, can be present but inactive. Renzoni A, et al. **Infect Immun** 1997 Apr; 65(4):1515-8

Urease is not involved in the virulence of Yersinia pseudotuberculosis in mice. Riot B, et al. **Infect Immun** 1997 May;65(5):1985-90

Identification of tandem genes involved in lipooligosaccharide expression by Haemophilus ducreyi. Stevens MK, et al. **Infect Immun** 1997 Feb;65(2):651-60

Expression of the Yersinia pestis capsular antigen (F1 antigen) on the surface of an aroA mutant of Salmonella typhimurium induces high levels of protection against plague. Titball RW, et al. **Infect Immun** 1997 May; 65(5):1926-30

Identification, characterization, and developmental regulation of Chlamydia trachomatis 3-deoxy-D-manno-octulosonate (KDO)-8-phosphate synthetase and CMP-KDO synthetase. Wylie JL, et al. **Infect Immun** 1997 Apr;65(4):1527-30

Environmental regulation of fimbrial gene expression in Porphyromonas gingivalis. Xie H, et al. **Infect Immun** 1997 Jun;65(6):2265-71

Temperature regulation of the streptococcal pyrogenic exotoxin A-encoding gene (speA). Xu S, et al. **Infect Immun** 1996 Dec;64(12):5399-402

Inducible transport of citrate in Lactobacillus rhamnosus ATCC 7469. de Figueroa RM, et al. **J Appl Bacteriol** 1996 Oct;81(4):348-54

Involvement of NtcB, a LysR family transcription factor, in nitrite activation of the nitrate assimilation operon in the cyanobacterium Synechococcus sp. strain PCC 7942. Aichi M, et al. **J Bacteriol** 1997 Aug;179(15):4671-5

Repression of the cob operon of Salmonella typhimurium by adenosylcobalamin is influenced by mutations in the pdu operon. Ailion M, et al. **J Bacteriol** 1997 Oct; 179(19):6084-91

Expression of the AsbA1, OXA-12, and AsbM1 beta-lactamases in Aeromonas jandaei AER 14 is coordinated by a two-component regulon. Alksne LE, et al. **J Bacteriol** 1997 Mar;179(6):2006-13

Posttranscriptional regulation of Caulobacter flagellin genes by a late flagellum assembly checkpoint. Anderson DK, et al. **J Bacteriol** 1997 Apr;179(7):2281-8

General and oxidative stress responses in Bacillus subtilis: cloning, expression, and mutation of the alkyl hydroperoxide reductase operon. Antelmann H, et al. **J Bacteriol** 1996 Nov;178(22):6571-8

Effects of sigmaS and the transcriptional activator AppY on induction of the Escherichia coli hya and cbdAB-appA operons in response to carbon and phosphate starvation. Atlung T, et al. **J Bacteriol** 1997 Apr;179(7):2141-6

Variable efficiency of a Ti plasmid-encoded VirA protein in different agrobacterial hosts. Bélanger C, et al. **J Bacteriol** 1997 Apr;179(7):2305-13

Altered transcription activation specificity of a mutant form of Bacillus subtilis GltR, a LysR family member. Belitsky BR, et al. **J Bacteriol** 1997 Feb;179(4):1035-43

The Lactobacillus acidophilus S-layer protein gene expression site comprises two consensus promoter sequences, one of which directs transcription of stable mRNA. Boot HJ, et al. **J Bacteriol** 1996 Sep; 178(18):5388-94

Use of an in vivo titration method to study a global regulator: effect of varying Lrp levels on expression of gltBDF in Escherichia coli. Borst DW, et al. **J Bacteriol** 1996 Dec; 178(23):6904-12

Mutations that increase expression of the rpoS gene and decrease its dependence on hfq function in Salmonella typhimurium. Brown L, et al. **J Bacteriol** 1997 Feb; 179(3):656-62

Identification of LytSR-regulated genes from Staphylococcus aureus. Brunskill EW, et al. **J Bacteriol** 1996 Oct;178(19):5810-2

Regulation of the dnaK operon of Streptomyces coelicolor A3(2) is governed by HspR, an autoregulatory repressor protein. Bucca G, et al. **J Bacteriol** 1997 Oct; 179(19):5999-6004

Cascade regulation of the toluene-3-monooxygenase operon (tbuA1UBVA2C) of Burkholderia pickettii PKO1: role of the tbuA1 promoter (PtbuA1) in the expression of its cognate activator, TbuT. Byrne AM, et al. **J Bacteriol** 1996 Nov;178(21):6327-37

Transcriptional regulation in the obligate intracytoplasmic bacterium Rickettsia prowazekii. Cai J, et al. **J Bacteriol** 1996 Sep;178(18):5543-5

Mutations in the alpha and sigma-70 subunits of RNA polymerase affect expression of the mer operon. Caslake LF, et al. **J Bacteriol** 1997 Mar;179(5):1787-95

Characterization of the aegA locus of Escherichia coli: control of gene expression in response to anaerobiosis and nitrate. Cavicchioli R, et al. **J Bacteriol** 1996 Dec; 178(23):6968-74

Aerobic regulation of isocitrate dehydrogenase gene (icd) expression in Escherichia coli by the arcA and fnr gene products. Chao G, et al. **J Bacteriol** 1997 Jul; 179(13):4299-304

Involvement of Fnr and ArcA in anaerobic expression of the tdc operon of Escherichia coli. Chattopadhyay S, et al. **J Bacteriol** 1997 Aug;179(15):4868-73

Physiological changes and alk gene instability in Pseudomonas oleovorans during induction and expression of alk genes. Chen Q, et al. **J Bacteriol** 1996 Sep; 178(18):5508-12

Role of mRNA termination in regulation of ermK. Choi SS, et al. **J Bacteriol** 1997 Mar;179(6):2065-7

Activation of the catBCA promoter: probing the interaction of CatR and RNA polymerase through in vitro transcription. Chugani SA, et al. **J Bacteriol** 1997 Apr; 179(7):2221-7

PfeR, an enterobactin-responsive activator of ferric enterobactin receptor gene expression in Pseudomonas aeruginosa. Dean CR, et al. **J Bacteriol** 1996 Sep; 178(18):5361-9

Regulation of transfer of the Enterococcus faecalis pheromone-responding plasmid pAD1: temperature-sensitive transfer mutants and identification of a new regulatory determinant, traD. de Freire Bastos MC, et al. **J Bacteriol** 1997 May;179(10):3250-9

Interactions of OxyR with the promoter region of the oxyR and ahpC genes from Mycobacterium leprae and Mycobacterium tuberculosis. Dhandayuthapani S, et al. **J Bacteriol** 1997 Apr;179(7):2401-9

Na+-induced transcription of nhaA, which encodes an Na+/H+ antiporter in Escherichia coli, is positively regulated by nhaR and affected by hns. Dover N, et al. **J Bacteriol** 1996 Nov;178(22):6508-17

The modified nucleoside 2-methylthio-N6-isopentenyladenosine in tRNA of Shigella flexneri is required for expression of virulence genes. Durand JM, et al. **J Bacteriol** 1997 Sep; 179(18):5777-82

Roles of HoxX and HoxA in biosynthesis of hydrogenase in Bradyrhizobium japonicum. Durmowicz MC, et al. **J Bacteriol** 1997 Jun;179(11):3676-82

The hupTUV operon is involved in negative control of hydrogenase synthesis in Rhodobacter capsulatus. Elsen S, et al. **J Bacteriol** 1996 Sep;178(17):5174-81

Complex regulatory activities associated with the histidine kinase PrrB in expression of photosynthesis genes in Rhodobacter sphaeroides 2.4.1. Eraso JM, et al. **J Bacteriol** 1996 Dec;178(24):7037-46

Identification of sigma S-regulated genes in Salmonella typhimurium: complementary regulatory interactions between sigma S and cyclic AMP receptor protein. Fang FC, et al. **J Bacteriol** 1996 Sep;178(17):5112-20

Role of the Escherichia coli FadR regulator in stasis survival and growth phase-dependent expression of the uspA, fad, and fab genes. Farewell A, et al. **J Bacteriol** 1996 Nov; 178(22):6443-50

Constitutive expression of fibronectin binding in Streptococcus pyogenes as a result of anaerobic activation of rofA. Fogg GC, et al. **J Bacteriol** 1997 Oct; 179(19):6172-80

Promoter mapping and transcriptional regulation of the iron-regulated Neisseria gonorrhoeae fbpA gene. Forng RY, et al. **J Bacteriol** 1997 May;179(9):3047-52

Multiple transcribed elements control expression of the Escherichia coli btuB gene. Franklund CV, et al. **J Bacteriol** 1997 Jun;179(12):4039-42

The Escherichia coli stpA gene is transiently expressed during growth in rich medium and is induced in minimal medium and by stress conditions. Free A, et al. **J Bacteriol** 1997 Feb;179(3):909-18

Characterization of transcriptional regulation of the kdp operon of Salmonella typhimurium. Frymier JS, et al. **J Bacteriol** 1997 May;179(9):3061-3

Nucleotide sequences and regulational analysis of genes involved in conversion of aniline to catechol in Pseudomonas putida UCC22(pTDN1). Fukumori F, et al. **J Bacteriol** 1997 Jan;179(2):399-408

Extragenic suppression of motA missense mutations of Escherichia coli. Garza AG, et al. **J Bacteriol** 1996 Nov; 178(21):6116-22

Characterization of Methanobacterium thermoautotrophicum Marburg mutants defective in regulation of L-tryptophan biosynthesis. Gast DA, et al. **J Bacteriol** 1997 Jun; 179(11):3664-9

Plasmid virulence gene expression induced by short-chain fatty acids in Salmonella dublin: identification of rpoS-dependent and rpo-S-independent mechanisms. El-Gedaily A, et al. **J Bacteriol** 1997 Feb;179(4):1409-12

A new type of hemophore-dependent heme acquisition system of Serratia marcescens reconstituted in Escherichia coli. Ghigo JM, et al. **J Bacteriol** 1997 Jun;179(11):3572-9

Transcriptional regulation of the Escherichia coli oxyR gene as a function of cell growth. González-Flecha B, et al. **J Bacteriol** 1997 Oct;179(19):6181-6

Functional analysis of exsC and exsB in regulation of exoenzyme S production by Pseudomonas aeruginosa. Goranson J, et al. **J Bacteriol** 1997 Mar;179(5):1646-54

Mechanism of coordinated synthesis of the antagonistic regulatory proteins NifL and NifA of Klebsiella pneumoniae. Govantes F, et al. **J Bacteriol** 1996 Dec; 178(23):6817-23

Transcriptional regulation of the Enterococcus faecium BM4147 vancomycin resistance gene cluster by the VanS-VanR two-component regulatory system in Escherichia coli K-12. Haldimann A, et al. **J Bacteriol** 1997 Sep;179(18):5903-13

The role of fur in the acid tolerance response of Salmonella typhimurium is physiologically and genetically separable from its role in iron acquisition. Hall HK, et al. **J Bacteriol** 1996 Oct;178(19):5683-91

A promoter for the first nine genes of the Escherichia coli mra cluster of cell division and cell envelope biosynthesis genes, including ftsI and ftsW. Hara H, et al. **J Bacteriol** 1997 Sep;179(18):5802-11

A nonswarming mutant of Proteus mirabilis lacks the Lrp global transcriptional regulator. Hay NA, et al. **J Bacteriol** 1997 Aug;179(15):4741-6

cse15, cse60, and csk22 are new members of mother-cell-specific sporulation regulons in Bacillus subtilis. Henriques AO, et al. **J Bacteriol** 1997 Jan; 179(2):389-98

Function of conserved histidine-243 in phosphatase activity

of EnvZ, the sensor for porin osmoregulation in Escherichia coli. Hsing W, et al. **J Bacteriol** 1997 Jun; 179(11):3729–35

Unbalanced membrane phospholipid compositions affect transcriptional expression of certain regulatory genes in Escherichia coli. Inoue K, et al. **J Bacteriol** 1997 May; 179(9):2872–8

The Escherichia coli histone-like protein HU affects DNA initiation, chromosome partitioning via MukB, and cell division via MinCDE. Jaffe A, et al. **J Bacteriol** 1997 Jun; 179(11):3494–9

Escherichia coli endonuclease VIII: cloning, sequencing, and overexpression of the nei structural gene and characterization of nei and nei nth mutants. Jiang D, et al. **J Bacteriol** 1997 Jun;179(11):3773–82

Regulation of RNA polymerase sigma subunit synthesis in Escherichia coli: intracellular levels of four species of sigma subunit under various growth conditions. Jishage M, et al. **J Bacteriol** 1996 Sep;178(18):5447–51

Roles of the tnaC-tnaA spacer region and Rho factor in regulating expression of the tryptophanase operon of Proteus vulgaris. Kamath AV, et al. **J Bacteriol** 1997 Mar; 179(5):1780–6

The Haemophilus influenzae dprABC genes constitute a competence-inducible operon that requires the product of the tfoX (sxy) gene for transcriptional activation. Karudapuram S, et al. **J Bacteriol** 1997 Aug; 179(15):4815–20

Isolation and characterization of a hemin-regulated gene, hemR, from Porphyromonas gingivalis. Karunakaran T, et al. **J Bacteriol** 1997 Mar;179(6):1898–908

Transcriptional regulation of the proton-translocating ATPase (atpIBEFHAGDC) operon of Escherichia coli: control by cell growth rate. Kasimoglu E, et al. **J Bacteriol** 1996 Oct;178(19):5563–7

Development of a temperature-inducible expression system for Streptomyces spp. Kataoka M, et al. **J Bacteriol** 1996 Sep;178(18):5540–2

Positive regulation by nitrite of the nitrate assimilation operon in the cyanobacteria Synechococcus sp. strain PCC 7942 and Plectonema boryanum. Kikuchi H, et al. **J Bacteriol** 1996 Oct;178(19):5822–5

The flgE gene of Campylobacter coli is under the control of the alternative sigma factor sigma54. Kinsella N, et al. **J Bacteriol** 1997 Aug;179(15):4647–53

Translational autoregulation of the sgm gene from Micromonospora zionensis. Kojic M, et al. **J Bacteriol** 1996 Sep;178(18):5493–8

Regulation of the Escherichia coli tna operon: nascent leader peptide control at the tnaC stop codon. Konan KV, et al. **J Bacteriol** 1997 Mar;179(5):1774–9

A temperature-sensitive trpS mutation interferes with trp RNA-binding attenuation protein (TRAP) regulation of trp gene expression in Bacillus subtilis. Lee AI, et al. **J Bacteriol** 1996 Nov;178(22):6518–24

Cloning and characterization of two groESL operons of Rhodobacter sphaeroides: transcriptional regulation of the heat-induced groESL operon. Lee WT, et al. **J Bacteriol** 1997 Jan;179(2):487–95

Enhancing transcription through the Escherichia coli hemolysin operon, hlyCABD: RfaH and upstream JUMPStart DNA sequences function together via a postinitiation mechanism. Leeds JA, et al. **J Bacteriol** 1997 Jun;179(11):3519–27

A hydrogen-sensing system in transcriptional regulation of hydrogenase gene expression in Alcaligenes species. Lenz O, et al. **J Bacteriol** 1997 Mar;179(5):1655–63

Role of NAD in regulating the adhE gene of Escherichia coli. Leonardo MR, et al. **J Bacteriol** 1996 Oct; 178(20):6013–8

Genetic analysis of the dsz promoter and associated regulatory regions of Rhodococcus erythropolis IGTS8. Li MZ, et al. **J Bacteriol** 1996 Nov;178(22):6409–18

Plasmid-amplified comS enhances genetic competence and suppresses sinR in Bacillus subtilis. Liu L, et al. **J Bacteriol** 1996 Sep;178(17):5144–52

NodV and NodW, a second flavonoid recognition system regulating nod gene expression in Bradyrhizobium japonicum. Loh J, et al. **J Bacteriol** 1997 May; 179(9):3013–20

Cloning and insertional inactivation of Streptomyces argillaceus genes involved in the earliest steps of biosynthesis of the sugar moieties of the antitumor polyketide mithramycin. Lombó F, et al. **J Bacteriol** 1997 May;179(10):3354–7

Evidence that the Bacillus subtilis pyrimidine regulatory protein PyrR acts by binding to pyr mRNA at three sites in vivo. Lu Y, et al. **J Bacteriol** 1996 Oct;178(19):5806–9

Transcriptional attenuation of the Bacillus subtilis pyr operon by the PyrR regulatory protein and uridine nucleotides in vitro. Lu Y, et al. **J Bacteriol** 1996 Dec;178(24):7206–11

Role of mga in growth phase regulation of virulence genes of the group A streptococcus. McIver KS, et al. **J Bacteriol** 1997 Aug;179(16):5178–87

Heterologous expression of biphenyl dioxygenase-encoding genes from a gram-positive broad-spectrum polychlorinated biphenyl degrader and characterization of chlorobiphenyl oxidation by the gene products. McKay DB, et al. **J Bacteriol** 1997 Mar;179(6):1924–30

Maximization of transcription of the serC (pdxF)-aroA multifunctional operon by antagonistic effects of the cyclic AMP (cAMP) receptor protein-cAMP complex and Lrp global regulators of Escherichia coli K-12. Man TK, et al. **J Bacteriol** 1997 Jun;179(11):3458–69

Posttranslational control of the algT (algU)-encoded sigma22 for expression of the alginate regulon in Pseudomonas aeruginosa and localization of its antagonist proteins MucA and MucB (AlgN). Mathee K, et al. **J Bacteriol** 1997 Jun; 179(11):3711–20

Lrp is a direct repressor of the dad operon in Escherichia coli. Mathew E, et al. **J Bacteriol** 1996 Dec;178(24):7234–40

Cloning and characterization of cspL and cspP, two cold-inducible genes from Lactobacillus plantarum. Mayo B, et al. **J Bacteriol** 1997 May;179(9):3039–42

Hydrogen regulation of growth, growth yields, and methane gene transcription in Methanobacterium thermoautotrophicum deltaH. Morgan RM, et al. **J Bacteriol** 1997 Feb;179(3):889–98

Determination of DNA sequences required for regulated Mycobacterium tuberculosis RecA expression in response to DNA-damaging agents suggests that two modes of regulation exist. Movahedzadeh F, et al. **J Bacteriol** 1997 Jun;179(11):3509–18

Identification and characterization of hydrogen peroxide-sensitive mutants of Escherichia coli: genes that require OxyR for expression. Mukhopadhyay S, et al. **J Bacteriol** 1997 Jan;179(2):330–8

Influence of impaired chaperone or secretion function on SecB production in Escherichia coli. Müller JP. **J Bacteriol** 1996 Nov;178(21):6097–104

Transcriptional control of genes encoding CS1 pili: negative regulation by a silencer and positive regulation by Rns. Murphree D, et al. **J Bacteriol** 1997 Sep;179(18):5736–43

The Bradyrhizobium japonicum rpoH1 gene encoding a sigma 32-like protein is part of a unique heat shock gene cluster together with groESL1 and three small heat shock genes. Narberhaus F, et al. **J Bacteriol** 1996 Sep; 178(18):5337–46

Kinetics of expression of the Escherichia coli cad operon as a function of pH and lysine. Neely MN, et al. **J Bacteriol** 1996 Sep;178(18):5522–8

Determinants for overproduction of the Pseudomonas oleovorans cytoplasmic membrane protein alkane hydroxylase in alk+ Escherichia coli W3110. Nieboer M, et al. **J Bacteriol** 1997 Feb;179(3):762–8

Role of mecA transcriptional regulation in the phenotypic expression of methicillin resistance in Staphylococcus aureus. Niemeyer DM, et al. **J Bacteriol** 1996 Sep; 178(18):5464–71

Growth- and substrate-dependent transcription of the formate dehydrogenase (fdhCAB) operon in Methanobacterium thermoformicicum Z-245. Nölling J, et al. **J Bacteriol** 1997 Feb;179(3):899–908

Evidence for the role of redox carriers in photosynthesis gene expression and carotenoid biosynthesis in Rhodobacter sphaeroides 2.4.1. O'Gara JP, et al. **J Bacteriol** 1997 Mar; 179(6):1951–61

Growth rate-related regulation of the ilvGMEDA operon of Escherichia coli K-12 is a consequence of the polar frameshift mutation in the ilvG gene of this strain. Parekh BS, et al. **J Bacteriol** 1997 Mar;179(6):2086–8

Aerobic regulation of the sucABCD genes of Escherichia coli, which encode alpha-ketoglutarate dehydrogenase and succinyl coenzyme A synthetase: roles of ArcA, Fnr, and the upstream sdhCDAB promoter. Park SJ, et al. **J Bacteriol** 1997 Jul;179(13):4138–42

Functional analysis of the Pseudomonas aeruginosa autoinducer PAI. Passador L, et al. **J Bacteriol** 1996 Oct; 178(20):5995–6000

Regulation of pelZ, a gene of the pelB-pelC cluster encoding a new pectate lyase of Erwinia chrysanthemi 3937. Pissavin C, et al. **J Bacteriol** 1996 Dec;178(24):7187–96

Nitric oxide, nitrite, and Fnr regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K-12. Poole RK, et al. **J Bacteriol** 1996 Sep; 178(18):5487–92

The Escherichia coli flagellar transcriptional activator flhD regulates cell division through induction of the acid response gene cadA. Prüss BM, et al. **J Bacteriol** 1997 Jun; 179(11):3818–21

Characterization of a locus from Carnobacterium piscicola LV17B involved in bacteriocin production and immunity: evidence for global inducer-mediated transcriptional regulation. Quadri LE, et al. **J Bacteriol** 1997 Oct; 179(19):6163–71

Sequences and expression of pyruvate dehydrogenase genes from Pseudomonas aeruginosa. Rae JL, et al. **J Bacteriol** 1997 Jun;179(11):3561–71

A crtB homolog essential for photochromogenicity in Mycobacterium marinum: isolation, characterization, and gene disruption via homologous recombination. Ramakrishnan L, et al. **J Bacteriol** 1997 Sep;179(18):5862–8

flaD (sinR) mutations affect SigD-dependent functions at multiple points in Bacillus subtilis. Rashid MH, et al. **J Bacteriol** 1996 Nov;178(22):6640–3

Catabolite repression resistance of gnt operon expression in Bacillus subtilis conferred by mutation of His-15, the site of phosphoenolpyruvate-dependent phosphorylation of the phosphocarrier protein HPr. Reizer J, et al. **J Bacteriol** 1996 Sep;178(18):5480–6

The cyclic AMP receptor protein is the main activator of pectinolysis genes in Erwinia chrysanthemi. Reverchon S, et al. **J Bacteriol** 1997 Jun;179(11):3500–8

A Gly145Ser substitution in the transcriptional activator PrfA causes constitutive overexpression of virulence factors in Listeria monocytogenes. Ripio MT, et al. **J Bacteriol** 1997 Mar;179(5):1533–40

The uvrB gene of Pseudomonas aeruginosa is not DNA damage inducible. Rivera E, et al. **J Bacteriol** 1996 Sep; 178(18):5550–4

Transcription of genes encoding DNA replication proteins is coincident with cell cycle control of DNA replication in Caulobacter crescentus. Roberts RC, et al. **J Bacteriol** 1997 Apr;179(7):2319–30

Integration host factor is required for 1,2-propanediol-dependent transcription of the cob/pdu regulon in Salmonella typhimurium LT2. Rondon MR, et al. **J Bacteriol** 1997 Jun;179(11):3797–800

Negative regulation of L-arabinose metabolism in Bacillus subtilis: characterization of the araR (araC) gene. Sá-Nogueira I, et al. **J Bacteriol** 1997 Mar;179(5):1598–608

Osmoprotectant-dependent expression of plcH, encoding the hemolytic phospholipase C, is subject to novel catabolite repression control in Pseudomonas aeruginosa PAO1. Sage AE, et al. **J Bacteriol** 1997 Aug;179(15):4874–81

A two-component response regulator, gltR, is required for glucose transport activity in Pseudomonas aeruginosa PAO1. Sage AE, et al. **J Bacteriol** 1996 Oct;178(20):6064–6

Expression and control of an operon from an intracellular symbiont which is homologous to the groE operon. Sato S, et al. **J Bacteriol** 1997 Apr;179(7):2300–4

Regulation of CO_2 assimilation in Ralstonia eutropha: premature transcription termination within the cbb operon. Schäferjohann J, et al. **J Bacteriol** 1996 Dec;178(23):6714–9

Cloning and characterization of the Helicobacter pylori flbA gene, which codes for a membrane protein involved in coordinated expression of flagellar genes. Schmitz A, et al. **J Bacteriol** 1997 Feb;179(4):987–97

CodY is required for nutritional repression of Bacillus subtilis genetic competence. Serror P, et al. **J Bacteriol** 1996 Oct; 178(20):5910–5

Effect of traY amber mutations on F-plasmid traY promoter activity in vivo. Silverman PM, et al. **J Bacteriol** 1996 Oct; 178(19):5787–9

Transcriptional organization and regulation of expression of region 1 of the Escherichia coli K5 capsule gene cluster. Simpson DA, et al. **J Bacteriol** 1996 Nov;178(22):6466–74

The tpl promoter of Citrobacter freundii is activated by the TyrR protein. Smith HQ, et al. **J Bacteriol** 1997 Sep; 179(18):5914–21

Molecular basis of the magnesium deprivation response in Salmonella typhimurium: identification of PhoP-regulated genes. Soncini FC, et al. **J Bacteriol** 1996 Sep; 178(17):5092–9

Two-component regulatory systems can interact to process multiple environmental signals. Soncini FC, et al. **J Bacteriol** 1996 Dec;178(23):6796–801

Rgg is a positive transcriptional regulator of the Streptococcus gordonii gtfG gene. Sulavik MC, et al. **J Bacteriol** 1996 Oct;178(19):5826–30

Transcriptional organization and regulation of the dnaK and groE operons of Chlamydia trachomatis. Tan M, et al. **J Bacteriol** 1996 Dec;178(23):6983–90

Growth phase-dependent transcription of the Streptomyces ramocissimus tuf1 gene occurs from two promoters. Tieleman LN, et al. **J Bacteriol** 1997 Jun;179(11):3619–24

Identification and characterization of a new beta-glucoside utilization system in Bacillus subtilis. Tobisch S, et al. **J Bacteriol** 1997 Jan;179(2):496–506

Barriers to heterologous expression of a selenoprotein gene in bacteria. Tormay P, et al. **J Bacteriol** 1997 Feb; 179(3):576–82

Characterization and regulation of the gene encoding nitrite reductase in Rhodobacter sphaeroides 2.4.3. Tosques IE, et al. **J Bacteriol** 1997 Feb;179(4):1090–5

The kdp system of Clostridium acetobutylicum: cloning, sequencing, and transcriptional regulation in response to potassium concentration. Treuner-Lange A, et al. **J Bacteriol** 1997 Jul;179(14):4501–12

Identification of sulfate starvation-regulated genes in Escherichia coli: a gene cluster involved in the utilization of taurine as a sulfur source. van der Ploeg JR, et al. **J Bacteriol** 1996 Sep;178(18):5438–46

Repression of the aroP gene of Escherichia coli involves activation of a divergent promoter. Wang P, et al. **J Bacteriol** 1997 Jul;179(13):4213–8

bldA dependence of undecylprodigiosin production in Streptomyces coelicolor A3(2) involves a pathway-specific regulatory cascade. White J, et al. **J Bacteriol** 1997 Feb; 179(3):627–33

The CcrM DNA methyltransferase is widespread in the alpha subdivision of proteobacteria, and its essential functions are conserved in Rhizobium meliloti and Caulobacter crescentus. Wright R, et al. **J Bacteriol** 1997 Sep; 179(18):5869–77

The Caulobacter heat shock sigma factor gene rpoH is positively autoregulated from a sigma32-dependent promoter. Wu J, et al. **J Bacteriol** 1997 Jan;179(2):514–21

Growth-phase-dependent expression of cspD, encoding a member of the CspA family in Escherichia coli. Yamanaka K, et al. **J Bacteriol** 1997 Aug;179(16):5126–30

A feedback loop regulates the switch from one sigma factor to the next in the cascade controlling Bacillus subtilis mother cell gene expression. Zhang B, et al. **J Bacteriol** 1997 Oct;179(19):6138–44

Suppression of mutant phenotypes of the Agrobacterium

tumefaciens VirB11 ATPase by overproduction of VirB proteins. Zhou XR, et al. **J Bacteriol** 1997 Sep; 179(18):5835–42

Induction of Rhizobium meliloti nodC gene by Alnus incana compounds. Małek W. **J Basic Microbiol** 1996;36(5):319–26

Discoordinate gene expression of gyrA and gyrB in response to DNA gyrase inhibition in Escherichia coli. Neumann S, et al. **J Basic Microbiol** 1997;37(1):53–69

Comparison of the gene expression of aspartate beta-D-semialdehyde dehydrogenase at elevated hydrostatic pressure in deep-sea bacteria. Kato C, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):717–23

Cloning and sequencing of two enterococcal glpK genes and regulation of the encoded glycerol kinases by phosphoenolpyruvate-dependent, phosphotransferase system-catalyzed phosphorylation of a single histidyl residue. Charrier V, et al. **J Biol Chem** 1997 May 30; 272(22):14166–74

cis-Active Ras G2-like sequence implicated in the heterotropic activation of the deoxyadenosine kinase of Lactobacillus acidophilus R-26. Guo S, et al. **J Biol Chem** 1997 Mar 14;272(11):6890–7

DNA binding is not sufficient for H-NS-mediated repression of proU expression. Jordi BJ, et al. **J Biol Chem** 1997 May 2;272(18):12083–90

DNA binding characteristics of CrtJ. A redox-responding repressor of bacteriochlorophyll, carotenoid, and light harvesting-II gene expression in Rhodobacter capsulatus. Ponnampalam SN, et al. **J Biol Chem** 1997 Jul 18; 272(29):18391–6

The transcription initiation pathway of sigma 54 mutants that bypass the enhancer protein requirement. Implications for the mechanism of activation. Wang JT, et al. **J Biol Chem** 1996 Dec 20;271(51):32707–13

Identification of a palindromic sequence that is responsible for the up-regulation of NAPDH-ferredoxin reductase in a ferredoxin I deletion strain of Azotobacter vinelandii. Yannone SM, et al. **J Biol Chem** 1997 May 30; 272(22):14454–8

Temporal pattern of Borrelia burgdorferi p21 expression in ticks and the mammalian host. Das S, et al. **J Clin Invest** 1997 Mar 1;99(5):987–95

Regulation of bacterial virulence gene expression by the host environment. Guiney DG. **J Clin Invest** 1997 Feb 15; 99(4):565–9 (26 ref.)

Analysis of the in vivo decay of the Escherichia coli dicistronic pyrF-orfF transcript: evidence for multiple degradation pathways. Arraiano CM, et al. **J Mol Biol** 1997 May 2;268(2):261–72

Enhanced ribosome frameshifting in stationary phase cells. Barak Z, et al. **J Mol Biol** 1996 Oct 25;263(2):140–8

Regulation of HU alpha and HU beta by CRP and FIS in Escherichia coli. Claret L, et al. **J Mol Biol** 1996 Oct 25; 263(2):126–39

Identification of the bases in the ompF regulatory region, which interact with the transcription factor OmpR. Huang KJ, et al. **J Mol Biol** 1996 Oct 11;262(5):615–28

Design of CytR regulated, cAMP-CRP dependent class II promoters in Escherichia coli: RNA polymerase-promoter interactions modulate the efficiency of CytR repression. Kristensen HH, et al. **J Mol Biol** 1997 Mar 14;266(5):866–76

Dual regulation of Escherichia coli secA translation by distinct upstream elements. McNicholas P, et al. **J Mol Biol** 1997 Jan 17;265(2):128–41

Regulation of the "tetCD" genes of transposon Tn10. Pepe CM, et al. **J Mol Biol** 1997 Jul 4;270(1):14–25

Identification of elements on GeneX-secA RNA of Escherichia coli required for SecA binding and secA auto-regulation. Salavati R, et al. **J Mol Biol** 1997 Jan 17; 265(2):142–52

A nucleoprotein activation complex between the leucine-responsive regulatory protein and DNA upstream of the gltBDF operon in Escherichia coli. Wiese DE 2nd, et al. **J Mol Biol** 1997 Jul 11;270(2):152–68

Identification of a Shigella flexneri criR gene increasing ipa genes expression: a novel member of response regulators of the two-component signal transduction family. Qi MS, et al. **Jpn J Med Sci Biol** 1996 Oct-Dec;49(5-6):219–39

Regulated transcription in a complete ribosome-free in vitro system of Escherichia coli. Choy HE. **Methods Enzymol** 1996;274:3–8

Analysis of two-component signal transduction systems involved in transcriptional regulation. Hakenbeck R, et al. **Methods Enzymol** 1996;273:281–300 (96 ref.)

PhoP/Q regulated genes in Salmonella typhi identification of melittin sensitive mutants. Baker SJ, et al. **Microb Pathog** 1997 Mar;22(3):165–79

Mutations in the f165(1)A and f165(1)E fimbrial genes and regulation of their expression in an Escherichia coli strain causing septicemia in pigs. Daigle F, et al. **Microb Pathog** 1997 Apr;22(4):247–52

Cloning, sequencing and expression of the CAMP factor gene of Streptococcus uberis. Jiang M, et al. **Microb Pathog** 1996 May;20(5):297–307

Molecular analysis of the bvg-repressed urease of Bordetella bronchiseptica. McMillan DJ, et al. **Microb Pathog** 1996 Nov;21(5):379–94

Expression of Neisseria meningitidis class 1 porin as a fusion protein in Escherichia coli: the influence of liposomes and adjuvants on the production of a bactericidal immune response. Ward SJ, et al. **Microb Pathog** 1996 Dec; 21(6):499–512

Expression and purification of the crystalline surface layer protein of Rickettsia typhi. Hahn MJ, et al. **Microbiol Immunol** 1996;40(3):233–6

Lipopolysaccharides of Escherichia coli K12 strains that express cloned genes for the Ogawa and Inaba antigens of Vibrio cholerae O1: identification of O-antigenic factors. Hisatsune K, et al. **Microbiol Immunol** 1996;40(9):621–6

Expression of virulence-associated antigens of Rhodococcus equi is regulated by temperature and pH. Takai S, et al. **Microbiol Immunol** 1996;40(8):591–4

Signal transduction and transcriptional and posttranscriptional control of iron-regulated genes in bacteria. Crosa JH. **Microbiol Mol Biol Rev** 1997 Sep; 61(3):319–36 (178 ref.)

Signal transduction and virulence regulation in Bordetella pertussis. Beier D, et al. **Microbiologia** 1996 Jun; 12(2):185–96 (60 ref.)

Regulation of virulence gene expression in pathogenic Listeria. Brehm K, et al. **Microbiologia** 1996 Jun; 12(2):219–36 (66 ref.)

Suppression of Escherichia coli formate hydrogenlyase activity by trimethylamine N-oxide is due to drainage of the inducer formate. Abaibou H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2657–64

A Streptomyces griseus gene (sgaA) suppresses the growth disturbance caused by high osmolality and a high concentration of A-factor during early growth. Ando N, et al. **Microbiology** 1997 Aug;143 (Pt 8):2715–23

Identification of Mycobacterium paratuberculosis gene expression signals. Bannantine JP, et al. **Microbiology** 1997 Mar;143 (Pt 3):921–8

An iron-regulated outer-membrane protein specific to Bordetella bronchiseptica and homologous to ferric siderophore receptors. Beall B, et al. **Microbiology** 1997 Jan;143 (Pt 1):135–45

Role of the colicin A lysis protein in the expression of the colicin A operon. Cavard D. **Microbiology** 1997 Jul;143 (Pt 7):2295–303

Molecular analysis and expression of the extracellular lipase of Aeromonas hydrophila MCC-2. Chuang YC, et al. **Microbiology** 1997 Mar;143 (Pt 3):803–12

Cra-mediated regulation of Escherichia coli adenylate cyclase. Crasnier-Mednansky M, et al. **Microbiology** 1997 Mar;143 (Pt 3):785–92

Expression of a Butyrivibrio fibrisolvens E14 gene (cinB) encoding an enzyme with cinnamoyl ester hydrolase activity is negatively regulated by the product of an adjacent gene (cinR). Dalrymple BP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1203–10

Isolation of an IHF-deficient mutant of a Pseudomonas aeruginosa mucoid isolate and evaluation of the role of IHF in algD gene expression. Delic-Attree I, et al. **Microbiology** 1996 Oct;142 (Pt 10):2785–93

Expression of the mau gene cluster of Paracoccus denitrificans is controlled by MauR and a second transcription regulator. Delorme C, et al. **Microbiology** 1997 Mar;143 (Pt 3):793–801

The trp RNA-binding attenuation protein (TRAP) regulates the steady-state levels of transcripts of the Bacillus subtilis folate operon. de Saizieu A, et al. **Microbiology** 1997 Mar; 143 (Pt 3):979–89

Molecular analysis of the regulation of nisin immunity. Dodd HM, et al. **Microbiology** 1996 Sep;142 (Pt 9):2385–92

IS900 targets translation initiation signals in Mycobacterium avium subsp. paratuberculosis to facilitate expression of its hed gene. Doran T, et al. **Microbiology** 1997 Feb;143 (Pt 2):547–52

Properties of NAD(+)- and NADP(+)-dependent malic enzymes of Rhizobium (Sinorhizobium) meliloti and differential expression of their genes in nitrogen-fixing bacteroids. Driscoll BT, et al. **Microbiology** 1997 Feb;143 (Pt 2):489–98

The flgK motility operon of Borrelia burgdorferi is initiated by a sigma 70-like promoter. Ge Y, et al. **Microbiology** 1997 May;143 (Pt 5):1681–90

BofC encodes a putative forespore regulator of the Bacillus subtilis sigma K checkpoint. Gomez M, et al. **Microbiology** 1997 Jan;143 (Pt 1):157–70

Expression of the Bacillus subtilis spoIVB gene is under dual sigma F/sigma G control. Gomez M, et al. **Microbiology** 1996 Dec;142 (Pt 12):3453–7

Alanyl-tRNA synthetase gene of the extreme acidophilic chemolithoautotrophic Thiobacillus ferrooxidans is highly homologous to alaS genes from all living kingdoms but cannot be transcribed from its promoter in Escherichia coli. Guiliani N, et al. **Microbiology** 1997 Jul;143 (Pt 7):2179–87

Molecular characterization of the Serratia marcescens OmpF porin, and analysis of S. marcescens OmpF and OmpC osmoregulation. Hutsul JA, et al. **Microbiology** 1997 Aug; 143 (Pt 8):2797–806

Regulatory systems modulating the transcription of the pectinase genes of Erwinia chrysanthemi are conserved in Escherichia coli. James V, et al. **Microbiology** 1996 Sep; 142 (Pt 9):2613–9

Degradative pathways for p-toluenecarboxylate and p-toluenesulfonate and their multicomponent oxygenases in Comamonas testosteroni strains PSB-4 and T-2. Junker F, et al. **Microbiology** 1996 Sep;142 (Pt 9):2419–27

Overlapping promoters modulate Fnr- and ArcA-dependent anaerobic transcriptional activation of the focApfl operon in Escherichia coli. Kaiser M, et al. **Microbiology** 1997 Mar; 143 (Pt 3):775–83

Control of Neisseria gonorrhoeae pilin gene expression by environmental factors: involvement of the pilA/pilB regulatory genes. Larribe M, et al. **Microbiology** 1997 May; 143 (Pt 5):1757–64

Use of green fluorescent protein for detection of cell-specific gene expression and subcellular protein localization during sporulation in Bacillus subtilis. Lewis PJ, et al. **Microbiology** 1996 Apr;142 (Pt 4):733–40

Activation of the Erwinia carotovora subsp. carotovora pectin lyase structural gene pnlA: a role for RdgB. Liu Y, et al. **Microbiology** 1997 Mar;143 (Pt 3):705–12

Gene disruption and replacement in the rapamycin-producing Streptomyces hygroscopicus strain ATCC 29253. Lomovskaya N, et al. **Microbiology** 1997 Mar;143 (Pt 3):875–83

Characterization of genes for the biosynthesis of the compatible solute ectoine from Marinococcus halophilus and osmoregulated expression in Escherichia coli. Louis P, et al. **Microbiology** 1997 Apr;143 (Pt 4):1141–9

Characterization of the ftsH gene of Bacillus subtilis. Lysenko E, et al. **Microbiology** 1997 Mar;143 (Pt 3):971–8

Determination of the pathway for rhamnose biosynthesis in mycobacteria: cloning, sequencing and expression of the Mycobacterium tuberculosis gene encoding alpha-D-glucose-1-phosphate thymidylyltransferase. Ma Y, et al. **Microbiology** 1997 Mar;143 (Pt 3):937–45

The wprA gene of Bacillus subtilis 168, expressed during exponential growth, encodes a cell-wall-associated protease. Margot P, et al. **Microbiology** 1996 Dec;142 (Pt 12):3437–44

FNR-dependent repression of ndh gene expression requires two upstream FNR-binding sites. Meng W, et al. **Microbiology** 1997 May;143 (Pt 5):1521–32

Influence of Bacillus subtilis phoR on cell wall anionic polymers. Müller JP, et al. **Microbiology** 1997 Mar;143 (Pt 3):947–56

Regulation of the inducible acetamidase gene of Mycobacterium smegmatis. Parish T, et al. **Microbiology** 1997 Jul;143 (Pt 7):2267–76

Spo0A represses transcription of the cry toxin genes in Bacillus thuringiensis. Poncet S, et al. **Microbiology** 1997 Aug;143 (Pt 8):2743–51

Copper-inducible transcriptional regulation at two promoters in the Escherichia coli copper resistance determinant pco. Rouch DA, et al. **Microbiology** 1997 Apr;143 (Pt 4):1191–202

The Bacillus subtilis L-arabinose (ara) operon: nucleotide sequence, genetic organization and expression. Sá-Nogueira I, et al. **Microbiology** 1997 Mar;143 (Pt 3):957–69

Molecular analysis of mxbD and mxbM, a putative sensor-regulator pair required for oxidation of methanol in Methylobacterium extorquens AM1. Springer AL, et al. **Microbiology** 1997 May;143 (Pt 5):1737–44

Expression of the exoY gene, required for exopolysaccharide synthesis in Agrobacterium, is activated by the regulatory ros gene. Tiburtius A, et al. **Microbiology** 1996 Sep;142 (Pt 9):2621–9

Gain-of-function mutation of sapB that affects formation of alkaline phosphatase by Bacillus subtilis in sporulation conditions. Whalen MB, et al. **Microbiology** 1997 Feb;143 (Pt 2):577–83

Reversion rates in a leuB auxotroph of Escherichia coli K-12 correlate with ppGpp levels during exponential growth. Wright BE, et al. **Microbiology** 1997 Mar;143 (Pt 3):847–54

The cydR gene product, required for regulation of cytochrome bd expression in the obligate aerobe Azotobacter vinelandii, is an Fnr-like protein. Wu G, et al. **Microbiology** 1997 Jul;143 (Pt 7):2197–207

Regulation of toxic shock syndrome toxin-1 gene in Staphylococcus aureus. Woo JH, et al. **Mol Cells** 1997 Feb 28;7(1):28–33

Control of Escherichia coli type 1 fimbrial gene expression in stationary phase: a negative role for RpoS. Dove SL, et al. **Mol Gen Genet** 1997 Mar 18;254(1):13–20

The role of the genes nrf EFG and ccmFH in cytochrome c biosynthesis in Escherichia coli. Grovc J, et al. **Mol Gen Genet** 1996 Sep 13;252(3):332–41

Autogenous and global control of the flagellar master operon, flhD, in Salmonella typhimurium. Kutsukake K. **Mol Gen Genet** 1997 Apr 28;254(4):440–8

The two beta-lactamase genes of Streptomyces cacaoi, blaL and blaU, are under the control of the same regulatory system. Magdalena J, et al. **Mol Gen Genet** 1997 Jun; 255(2):187–93

Transcriptional regulation of pilC2 in Neisseria gonorrhoeae: response to oxygen availability and evidence for growth-phase regulation in Escherichia coli. Mellies J, et al. **Mol Gen Genet** 1997 Jul;255(3):285–93

Impaired lysogenisation of the Escherichia coli rpoA341 mutant by bacteriophage lambda is due to the inability of CII to act as a transcriptional activator. Obuchowski M, et al. **Mol Gen Genet** 1997 Apr 16;254(3):304–11

Bacillus subtilis ComK negatively regulates degR gene expression. Ogura M, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):157–65

Effects of the sinR and degU32 (Hy) mutations on the regulation of the aprE gene in Bacillus subtilis. Olmos J, et al. **Mol Gen Genet** 1997 Feb 20;253(5):562–7

Secretion of the lantibiotics epidermin and gallidermin: sequence analysis of the genes gdmT and gdmH, their influence on epidermin production and their regulation by

EpiQ. Peschel A, et al. **Mol Gen Genet** 1997 Apr 16; 254(3):312–8

Autoinducer–independent mutants of the LuxR transcriptional activator exhibit differential effects on the two lux promoters of Vibrio fischeri. Sitnikov DM, et al. **Mol Gen Genet** 1996 Oct 16;252(5):622–5

Treatment with DNA–damaging agents increases expression of polA'–lacZ gene fusions in Escherichia coli K–12. Wandt G, et al. **Mol Gen Genet** 1997 Mar 18;254(1):98–103

Evidence for in vivo but not in vitro expression of a Borrelia burgdorferi outer surface protein F (OspF) homologue. Akins DR, et al. **Mol Microbiol** 1995 Nov;18(3):507–20

H–NS: a modulator of environmentally regulated gene expression. Atlung T, et al. **Mol Microbiol** 1997 Apr; 24(1):7–17 (77 ref.)

Two different mechanisms are involved in the heat–shock regulation of chaperonin gene expression in Bradyrhizobium japonicum. Babst M, et al. **Mol Microbiol** 1996 Feb;19(4):827–39

Co–ordinate regulation of Salmonella typhimurium invasion genes by environmental and regulatory factors is mediated by control of hilA expression. Bajaj V, et al. **Mol Microbiol** 1996 Nov;22(4):703–14

Promoter strength influences phase variation of neisserial opa genes. Belland RJ, et al. **Mol Microbiol** 1997 Jan; 23(1):123–35

Pheromone cCF10 and plasmid pCF10–encoded regulatory molecules act post–transcriptionally to activate expression of downstream conjugation functions. Bensing BA, et al. **Mol Microbiol** 1997 Apr;24(2):285–94

Pheromone–inducible expression of an aggregation protein in Enterococcus faecalis requires interaction of a plasmid–encoded RNA with components of the ribosome. Bensing BA, et al. **Mol Microbiol** 1997 Apr;24(2):295–308

Deletion mutagenesis of Tn 10 Tet repressor—localization of regions important for dimerization and inducibility in vivo. Berens C, et al. **Mol Microbiol** 1995 Nov;18(3):437–48

Differential regulation of the virulence genes of Listeria monocytogenes by the transcriptional activator PrfA. Bohne J, et al. **Mol Microbiol** 1996 Jun;20(6):1189–98

Bacillus subtilis can modulate its capacity and specificity for protein secretion through temporally controlled expression of the sipS gene for signal peptidase I. Bolhuis A, et al. **Mol Microbiol** 1996 Nov;22(4):605–18

Expression, secretion and antigenic variation of bacterial S–layer proteins. Boot HJ, et al. **Mol Microbiol** 1996 Sep; 21(6):1117–23 (49 ref.)

Molecular characterization of the Pseudomonas aeruginosa serotype O5 (PAO1) B–band lipopolysaccharide gene cluster. Burrows LL, et al. **Mol Microbiol** 1996 Nov; 22(3):481–95

Role of the periplasmic domain of the Escherichia coli NarX sensor–transmitter protein in nitrate–dependent signal transduction and gene regulation. Cavicchioli R, et al. **Mol Microbiol** 1996 Sep;21(5):901–11

The cutRS signal transduction system of Streptomyces lividans represses the biosynthesis of the polyketide antibiotic actinorhodin. Chang HM, et al. **Mol Microbiol** 1996 Sep;21(5):1075–85

The AngR protein and the siderophore anguibactin positively regulate the expression of iron–transport genes in Vibrio anguillarum. Chen Q, et al. **Mol Microbiol** 1996 Oct; 22(1):127–34

The putA gene of Agrobacterium tumefaciens is transcriptionally activated in response to proline by an Lrp–like protein and is not autoregulated. Cho K, et al. **Mol Microbiol** 1996 Dec;22(5):1025–33

Mycoplasma hyorhinis vlp gene transcription: critical role in phase variation and expression of surface lipoproteins. Citti C, et al. **Mol Microbiol** 1995 Nov;18(4):649–60

The P1 ParA protein and its ATPase activity play a direct role in the segregation of plasmid copies to daughter cells. Davis MA, et al. **Mol Microbiol** 1996 Sep;21(5):1029–36

Multicopy fimB gene expression in Escherichia coli: binding to inverted repeats in vivo, effect on fimA gene transcription and DNA inversion. Dove SL, et al. **Mol Microbiol** 1996 Sep;21(6):1161–73

An ideR mutant of Mycobacterium smegmatis has derepressed siderophore production and an altered oxidative–stress response. Dussurget O, et al. **Mol Microbiol** 1996 Nov;22(3):535–44

Surface proteins and a novel transcription factor regulate the expression of the S–layer gene in Thermus thermophilus HB8. Fernández–Herrero LA, et al. **Mol Microbiol** 1997 Apr;24(1):61–72

Expression of the Bacillus subtilis gabP gene is regulated independently in response to nitrogen and amino acid availability. Ferson AE, et al. **Mol Microbiol** 1996 Nov; 22(4):693–701

YbtA, an AraC–type regulator of the Yersinia pestis pesticin/yersiniabactin receptor. Fetherston JD, et al. **Mol Microbiol** 1996 Oct;22(2):315–25

Contribution of individual promoters in the ddlB–ftsZ region to the transcription of the essential cell–division gene ftsZ in Escherichia coli. Flärdh K, et al. **Mol Microbiol** 1997 Jun;24(5):927–36

Localization of OccR–activated and TraR–activated promoters that express two ABC–type permeases and the traR gene of Ti plasmid pTiR10. Fuqua C, et al. **Mol Microbiol** 1996 Jun;20(6):1199–210

Role of the transcriptional activator RocR in the arginine–degradation pathway of Bacillus subtilis. Gardan R, et al. **Mol Microbiol** 1997 May;24(4):825–37

FIS is a regulator of metabolism in Escherichia coli. González–Gil G, et al. **Mol Microbiol** 1996 Oct;22(1):21–9

Growth–phase–dependent expression of the osmotically inducible gene osmC of Escherichia coli K–12. Gordia S, et al. **Mol Microbiol** 1996 Feb;19(4):729–36

Disruption of hspR, the repressor gene of the dnaK operon in Streptomyces albus G. Grandvalet C, et al. **Mol Microbiol** 1997 Jan;23(1):77–84

nasST, two genes involved in the induction of the assimilatory nitrite–nitrate reductase operon (nasAB) of Azotobacter vinelandii. Gutierrez JC, et al. **Mol Microbiol** 1995 Nov;18(3):579–91

Regulated expression of the dinR and recA genes during competence development and SOS induction in Bacillus subtilis. Haijema BJ, et al. **Mol Microbiol** 1996 Oct; 22(1):75–85

Back to log phase: sigma S as a global regulator in the osmotic control of gene expression in Escherichia coli. Hengge–Aronis R. **Mol Microbiol** 1996 Sep;21(5):887–93 (65 ref.)

Altering the level and regulation of the major sigma subunit of RNA polymerase affects gene expression and development in Bacillus subtilis. Hicks KA, et al. **Mol Microbiol** 1996 Apr;20(1):201–12

Iron–regulated haemolysin gene from Edwardsiella tarda. Hirono I, et al. **Mol Microbiol** 1997 May;24(4):851–6

Catabolite repression by glucose 6–phosphate, gluconate and lactose in Escherichia coli. Hogema BM, et al. **Mol Microbiol** 1997 May;24(4):857–67

Expression of the gltP gene of Escherichia coli in a glutamate transport–deficient mutant of Rhodobacter sphaeroides restores chemotaxis to glutamate. Jacobs MH, et al. **Mol Microbiol** 1995 Nov;18(4):641–7

Transcriptional activation of Salmonella typhimurium invasion genes by a member of the phosphorylated response–regulator superfamily. Johnston C, et al. **Mol Microbiol** 1996 Nov;22(4):715–27

RbfA, a 30S ribosomal binding factor, is a cold–shock protein whose absence triggers the cold–shock response. Jones PG, et al. **Mol Microbiol** 1996 Sep;21(6):1207–18

Promoter identification and expression analysis of Salmonella typhimurium and Escherichia coli nrdEF operons encoding one of two class I ribonucleotide reductases present in both bacteria. Jordan A, et al. **Mol Microbiol** 1996 Feb; 19(4):777–90

The per regulator of enteropathogenic Escherichia coli [letter; comment] Kaper JB, et al. **Mol Microbiol** 1997 Jan; 23(1):179–81. Comment on: Mol Microbiol 1996 Sep;21(5):963–75.

The positions of the sigma–factor genes, whiG and sigF, in the hierarchy controlling the development of spore chains in the aerial hyphae of Streptomyces coelicolor A3(2). Kelemen GH, et al. **Mol Microbiol** 1996 Aug;21(3):593–603

Two–stage regulation of an anti–sigma factor determines developmental fate during bacterial endospore formation. Kellner EM, et al. **Mol Microbiol** 1996 Sep;21(5):913–24

Dual regulation of the paraquat–inducible gene pqi–5 by SoxS and RpoS in Escherichia coli. Koh YS, et al. **Mol Microbiol** 1996 Oct;22(1):53–61

The amino–terminal part of ActA is critical for the actin–based motility of Listeria monocytogenes; the central proline–rich region acts as a stimulator. Lasa I, et al. **Mol Microbiol** 1995 Nov;18(3):425–36

Degradation by proteases Lon, Clp and HtrA, of Escherichia coli proteins aggregated in vivo by heat shock; HtrA protease action in vivo and in vitro. Laskowska E, et al. **Mol Microbiol** 1996 Nov;22(3):555–71

A hierarchical quorum–sensing cascade in Pseudomonas aeruginosa links the transcriptional activators LasR and RhlR (VsmR) to expression of the stationary–phase sigma factor RpoS. Latifi A, et al. **Mol Microbiol** 1996 Sep; 21(6):1137–46

Differential regulation of multiple overlapping promoters in flagellar class II operons in Escherichia coli. Liu X, et al. **Mol Microbiol** 1996 Aug;21(3):613–20

Circadian expression of genes involved in the purine biosynthetic pathway of the cyanobacterium Synechococcus sp. strain PCC 7942. Liu Y, et al. **Mol Microbiol** 1996 Jun;20(5):1071–81

RecA relieves negative autoregulation of rdgA, which specifies a component of the RecA–Rdg regulatory circuit controlling pectin lyase production in Erwinia carotovora ssp. carotovora. Liu Y, et al. **Mol Microbiol** 1996 Dec; 22(5):909–18

Genetic analysis of the transcriptional arrangement of Azotobacter vinelandii alginate biosynthetic genes: identification of two independent promoters. Lloret L, et al. **Mol Microbiol** 1996 Aug;21(3):449–57

Establishing differential gene expression in sporulating Bacillus subtilis: phosphorylation of SpoIIAA (anti–anti–sigmaF) alters its conformation and prevents formation of a SpoIIAA/SpoIIAB/ADP complex. Magnin T, et al. **Mol Microbiol** 1996 Feb;19(4):901–7

Expression and regulation of the rnc and pdxJ operons of Escherichia coli. Matsunaga J, et al. **Mol Microbiol** 1996 Dec;22(5):977–89

Carbon–source regulation of virulence gene expression in Listeria monocytogenes. Milenbachs AA, et al. **Mol Microbiol** 1997 Mar;23(5):1075–85

Overlaps and parallels in the regulation of intrinsic multiple–antibiotic resistance in Escherichia coli. Miller PF, et al. **Mol Microbiol** 1996 Aug;21(3):441–8 (38 ref.)

Modulation of the Escherichia coli sigmaE (RpoE) heat–shock transcription–factor activity by the RseA, RseB and RseC proteins. Missiakas D, et al. **Mol Microbiol** 1997 Apr;24(2):355–71

The role of lux autoinducer in regulating luminescence in Vibrio harveyi; control of luxR expression. Miyamoto CM, et al. **Mol Microbiol** 1996 Feb;19(4):767–75

Transcriptional control of the agr–dependent virulence gene regulator, RNAIII, in Staphylococcus aureus. Morfeldt E, et al. **Mol Microbiol** 1996 Sep;21(6):1227–37

Suppression of transcription polarity in the Escherichia coli haemolysin operon by a short upstream element shared by polysaccharide and DNA transfer determinants. Nieto JM, et al. **Mol Microbiol** 1996 Feb;19(4):705–13

Exotoxin A production in Pseudomonas aeruginosa requires the iron–regulated pvdS gene encoding an alternative sigma factor. Ochsner UA, et al. **Mol Microbiol** 1996 Sep; 21(5):1019–28

The HypB protein from Bradyrhizobium japonicum can store nickel and is required for the nickel–dependent transcriptional regulation of hydrogenase. Olson JW, et al. **Mol Microbiol** 1997 Apr;24(1):119–28

Induction of haemolytic activity in Escherichia coli by the slyA gene product. Oscarsson J, et al. **Mol Microbiol** 1996 Apr;20(1):191–9

Regulation of the expression of the traM gene of the F sex factor of Escherichia coli. Penfold SS, et al. **Mol Microbiol** 1996 May;20(3):549–58

The bld mutants of Streptomyces coelicolor are defective in the regulation of carbon utilization, morphogenesis and cell—cell signalling. Pope MK, et al. **Mol Microbiol** 1996 Feb;19(4):747–56

The bundle–forming pili of enteropathogenic Escherichia coli: transcriptional regulation by environmental signals. Puente JL, et al. **Mol Microbiol** 1996 Apr;20(1):87–100

The global activator GacA of Pseudomonas aeruginosa PAO positively controls the production of the autoinducer N–butyryl–homoserine lactone and the formation of the virulence factors pyocyanin, cyanide, and lipase. Reimmann C, et al. **Mol Microbiol** 1997 Apr;24(2):309–19

Site–directed mutagenesis of the katG gene of Mycobacterium tuberculosis: effects on catalase–peroxidase activities and isoniazid resistance. Rouse DA, et al. **Mol Microbiol** 1996 Nov;22(3):583–92

PilC of Neisseria meningitidis is involved in class II pilus formation and restores pilus assembly, natural transformation competence and adherence to epithelial cells in PilC–deficient gonococci. Ryll RR, et al. **Mol Microbiol** 1997 Mar;23(5):879–92

A cyclophilin–like peptidyl–prolyl cis/trans isomerase from Legionella pneumophila—characterization, molecular cloning and overexpression. Schmidt B, et al. **Mol Microbiol** 1996 Sep;21(6):1147–60

Regulation of expression, genetic organization and substrate specificity of xylose uptake in Bacillus megaterium. Schmiedel D, et al. **Mol Microbiol** 1997 Mar;23(5):1053–62

PhhR, a divergently transcribed activator of the phenylalanine hydroxylase gene cluster of Pseudomonas aeruginosa. Song J, et al. **Mol Microbiol** 1996 Nov; 22(3):497–507

Regulation of the Escherichia coli K5 capsule gene cluster by transcription antitermination. Stevens MP, et al. **Mol Microbiol** 1997 Jun;24(5):1001–12

Protein folding in the cytoplasm of Escherichia coli: requirements for the DnaK–DnaJ–GrpE and GroEL–GroES molecular chaperone machines. Thomas JG, et al. **Mol Microbiol** 1996 Sep;21(6):1185–96

Cloning and characterization of bfpTVW, genes required for the transcriptional activation of bfpA in enteropathogenic Escherichia coli [see comments] Tobe T, et al. **Mol Microbiol** 1996 Sep;21(5):963–75. Comment in: Mol Microbiol 1997 Jan;23(1):179–81.

HoxA is a transcriptional regulator for expression of the hup structural genes in free–living Bradyrhizobium japonicum. Van Soom C, et al. **Mol Microbiol** 1997 Mar;23(5):967–77

Substrate induction and glucose repression of maltose utilization by Streptomyces coelicolor A3(2) is controlled by malR, a member of the lacI–galR family of regulatory genes. van Wezel GP, et al. **Mol Microbiol** 1997 Feb; 23(3):537–49

Bacillus subtilis operon under the dual control of the general stress transcription factor sigma B and the sporulation transcription factor sigma H. Varón D, et al. **Mol Microbiol** 1996 Apr;20(2):339–50

The general L–amino acid permease of Rhizobium leguminosarum is an ABC uptake system that also influences efflux of solutes. Walshaw DL, et al. **Mol Microbiol** 1996 Sep;21(6):1239–52

Identification of sigma S–dependent genes associated with the stationary–phase acid–resistance phenotype of Shigella flexneri. Waterman SR, et al. **Mol Microbiol** 1996 Sep; 21(5):925–40

Regulation of the Caulobacter flagellar gene hierarchy; not just for motility. Wu J, et al. **Mol Microbiol** 1997 Apr; 24(2):233–9 (45 ref.)

Chlamydia trachomatis CTP synthetase: molecular characterization and developmental regulation of expression. Wylie JL, et al. **Mol Microbiol** 1996 Nov; 22(4):631–42

In vivo phase variation of MR/P fimbrial gene expression in Proteus mirabilis infecting the urinary tract. Zhao H,

et al. **Mol Microbiol** 1997 Mar;23(5):1009–19

The RsmA– mutants of Erwinia carotovora subsp. carotovora strain Ecc71 overexpress hrpNEcc and elicit a hypersensitive reaction–like response in tobacco leaves. Cui Y, et al. **Mol Plant Microbe Interact** 1996 Sep; 9(7):565–73

Phenotypic characterization and regulation of the nolA gene of Bradyrhizobium japonicum. Garcia M, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):625–36

New Rhizobium leguminosarum flavonoid–induced proteins revealed by proteome analysis of differentially displayed proteins. Guerreiro N, et al. **Mol Plant Microbe Interact** 1997 May;10(4):506–16

Molecular characterization and expression of the Erwinia carotovora hrpNEcc gene, which encodes an elicitor of the hypersensitive reaction. Mukherjee A, et al. **Mol Plant Microbe Interact** 1997 May;10(4):462–71

Expression of the Pseudomonas aeruginosa uvrA gene is constitutive. Rivera E, et al. **Mutat Res** 1997 Jun 9; 377(1):149–55

Transcriptional activation by recruitment. Ptashne M, et al. **Nature** 1997 Apr 10;386(6625):569–77 (101 ref.)

Alterations in the chemical composition of peptidoglycan of Escherichia coli DH5 alpha induced by the expression of Enterococcus faecalis penicillin binding protein 5. Signoretto C, et al. **New Microbiol** 1997 Jan;20(1):21–8

Independent and tight regulation of transcriptional units in Escherichia coli via the LacR/O, the TetR/O and AraC/I1–I2 regulatory elements. Lutz R, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1203–10

Rhizobium symbiosis: nod factors in perspective. Long SR. **Plant Cell** 1996 Oct;8(10):1885–98 (140 ref.)

Activation of the silent psbA1 gene in the cyanobacterium Synechocystis sp strain 6803 produces a novel and functional D1 protein. Salih GF, et al. **Plant Cell** 1997 Jun; 9(6):869–78

Differential regulation by low temperature of the gene for an RNA–binding protein, rbpA3, in the cyanobacterium Anabaena variabilis strain M3. Sato N, et al. **Plant Cell Physiol** 1997 Jan;38(1):81–6

Disruption analysis of the gene for a cold–regulated RNA–binding protein, rbpA1, in Anabaena: cold–induced initiation of the heterocyst differentiation pathway. Sato N, et al. **Plant Cell Physiol** 1996 Dec;37(8):1150–60

Regulation, unique gene organization, and unusual primary structure of carbon fixation genes from a marine phycoerythrin–containing cyanobacterium. Watson GM, et al. **Plant Mol Biol** 1996 Dec;32(6):1103–15

Gene structure and differential regulation of the Rhizobium–induced peroxidase gene rip1. Peng HM, et al. **Plant Physiol** 1996 Dec;112(4):1437–46

Hydrogenase genes from Rhizobium leguminosarum bv. viciae are controlled by the nitrogen fixation regulatory protein nifA. Brito B, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6019–24

Transcriptional regulation in Archaea: in vivo demonstration of a repressor binding site in a methanogen. Cohen–Kupiec R, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1316–20

In vivo kinetics of a redox–regulated transcriptional switch. Ding H, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8445–9

Differential expression of the ToxR regulon in classical and E1 Tor biotypes of Vibrio cholerae is due to biotype–specific control over toxT expression. DiRita VJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7991–5

Phenotypic conversion of drug–resistant bacteria to drug sensitivity. Guerrier–Takada C, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8468–72

RecQ DNA helicase is a suppressor of illegitimate recombination in Escherichia coli. Hanada K, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3860–5

Complementation of sporulation and motility defects in a prokaryote by a eukaryotic GTPase. Hartzell PL. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9881–6

Transcriptional regulation of the Rhodococcus rhodochrous J1 nitA gene encoding a nitrilase. Komeda H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10572–7

A bacterial basic region leucine zipper histidine kinase regulating toluene degradation. Lau PC, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1453–8

Function of RNA secondary structures in transcriptional attenuation of the Bacillus subtilis pyr operon. Lu Y, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14462–7

Deoxycytidine kinase and deoxyguanosine kinase of Lactobacillus acidophilus R–26 are colinear products of a single gene. Ma N, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14385–90

Dominant negative inhibition by fragments of a monomeric enzyme. Michaels JE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14452–5

Detecting and characterizing N–acyl–homoserine lactone signal molecules by thin–layer chromatography. Shaw PD, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6036–41

Cyclic AMP and its receptor protein negatively regulate the coordinate expression of cholera toxin and toxin–coregulated pilus in Vibrio cholerae. Skorupski K, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):265–70

A new approach for containment of microorganisms: dual control of streptavidin expression by antisense RNA and the T7 transcription system. Szafranski P, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1059–63

TnrA, a transcription factor required for global nitrogen regulation in Bacillus subtilis. Wray LV Jr, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8841–5

Cloning of the tryptophan operon of Brevibacterium divaricatum and its expression in E. coli. Su YC, et al. **Proc Natl Sci Counc Repub China B** 1996 Jul;20(3):87–91

Overexpression, purification, and generation of a thermostable variant of Zymomonas mobilis fructokinase. King K, et al. **Protein Expr Purif** 1996 Jun;7(4):373–6

Cloning, overexpression, and mutagenesis of the gene for homoprotocatechuate 2,3–dioxygenase from Brevibacterium fuscum. Wang YZ, et al. **Protein Expr Purif** 1997 Jun;10(1):1–9

RNase III autoregulation: structure and function of rncO, the posttranscriptional "operator". Matsunaga J, et al. **RNA** 1996 Dec;2(12):1228–40

Bacterial interference caused by autoinducing peptide variants. Ji G, et al. **Science** 1997 Jun 27;276(5321):2027–30

Fluorescence–based isolation of bacterial genes expressed within host cells. Valdivia RH, et al. **Science** 1997 Sep 26; 277(5334):2007–11

Expression of a Bacillus thuringiensis cryIA(c) gene in transgenic peanut plants and its efficacy against lesser cornstalk borer. Singsit C, et al. **Transgenic Res** 1997 Mar; 6(2):169–76

Environmental regulation of rhizobial symbiotic nitrogen fixation genes. Fischer HM. **Trends Microbiol** 1996 Aug; 4(8):317–20 (27 ref.)

Intercellular communication and group behavior in bacteria. Gray KM. **Trends Microbiol** 1997 May;5(5):184–8 (30 ref.)

[Regulation of purine biosynthetic genes expression in Salmonella typhimurium. III. Isolation of O+ and Oc fragments of pur JHD] Li K, et al. **I Chuan Hsueh Pao** 1995;22(2):152–60 (Eng. Abstr.) **(Chi)**

[Unusual pathways and environmentally regulated genes of bacterial heme biosynthesis] Jahn D, et al. **Naturwissenschaften** 1996 Sep;83(9):389–400 (67 ref.) (Eng. Abstr.) **(Ger)**

[Escherichia coli homoserine kinase gene expression in mammalian cells] Abramian LG, et al. **Mol Biol (Mosk)** 1996 Jul–Aug;30(4):838–45 **(Rus)**

[Riboflavin biosynthetic genes in Bacillus amyloliquefaciens: primary structure, organization and regulation of activity] Gusarov II, et al. **Mol Biol (Mosk)** 1997 May–Jun; 31(3):446–53 **(Rus)**

[Fluoroquinolone and aminoglycoside resistance in chromosomal cephalosporinase–overproducing gram–negative bacilli strains with inducible beta–lactamase] López–Yeste M, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):211–4 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Controlled gene expression systems for Lactococcus lactis with the food–grade inducer nisin. de Ruyter PG, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3662–7

Effect of chelating agents and respiratory inhibitors on regulation of the cadA gene in Escherichia coli. Reams SG, et al. **Arch Microbiol** 1997 Apr;167(4):209–16

Expression of the Escherichia coli thioredoxin gene is negatively regulated by cyclic AMP. Sa JH, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):564–7

Alkylsyringamides, new inducers of Agrobacterium tumefaciens virulence genes. Dyé F, et al. **Biochimie** 1997; 79(1):3–6

Induction of L–lysine epsilon–aminotransferase by L–lysine in Streptomyces clavuligerus, producer of cephalosporins [published erratum appears in FEMS Microbiol Lett 1997 Jan 15;146(2):319] Rius N, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):207–11

Identification of a new iron regulated locus of Salmonella typhi. Bäumler AJ, et al. **Gene** 1996 Dec 12;183(1–2):207–13

Metals control activity and expression of the heme biosynthesis enzyme delta–aminolevulinic acid dehydratase in Bradyrhizobium japonicum. Chauhan S, et al. **J Bacteriol** 1997 Sep;179(17):5516–20

A two–component system in Ralstonia (Pseudomonas) solanacearum modulates production of PhcA–regulated virulence factors in response to 3–hydroxypalmitic acid methyl ester. Clough SJ, et al. **J Bacteriol** 1997 Jun; 179(11):3639–48

Characterization of fhlA mutations resulting in ligand–independent transcriptional activation and ATP hydrolysis. Korsa I, et al. **J Bacteriol** 1997 Jan;179(1):41–5

Analysis of the role of the nnrR gene product in the response of Rhodobacter sphaeroides 2.4.1 to exogenous nitric oxide. Kwiatkowski AV, et al. **J Bacteriol** 1997 Sep; 179(17):5618–20

2–chloromuconate and ClcR–mediated activation of the clcABD operon: in vitro transcriptional and DNase I footprint analyses. McFall SM, et al. **J Bacteriol** 1997 Jun; 179(11):3655–63

Isolation and characterization of a xylose–dependent promoter from Caulobacter crescentus. Meisenzahl AC, et al. **J Bacteriol** 1997 Feb;179(3):592–600

Paraquat regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K–12 is SoxRS independent but modulated by sigma S. Membrillo–Hernández J, et al. **J Bacteriol** 1997 May;179(10):3164–70

oxyR–dependent induction of Escherichia coli grx gene expression by peroxide stress. Tao K. **J Bacteriol** 1997 Sep; 179(18):5967–70

The role of the variable region in Tet repressor for inducibility by tetracycline. Berens C, et al. **J Biol Chem** 1997 Mar 14;272(11):6936–42

A 16 kDa protein family overexpressed by Streptococcus thermophilus PB18 in acid environments. González–Márquez H, et al. **Microbiology** 1997 May;143 (Pt 5):1587–94

The recA gene from Clostridium perfringens is induced by methyl methanesulphonate and contains an upstream Cheo box. Johnston JL, et al. **Microbiology** 1997 Mar;143 (Pt 3):885–90

An outer–membrane porin inducible by short–chain amides and urea in the methylotrophic bacterium Methylophilus methylotrophus. Mills J, et al. **Microbiology** 1997 Jul;143 (Pt 7):2373–9

[Regulated expression of bacterial luminescence genes cloned in a multicopy recombinant plasmid] Maksimova EE, et al. **Mikrobiologiia** 1997 Mar–Apr;66(2):223–7 (Eng. Abstr.) **(Rus)**

GENETICS

Alternative respiratory pathways of Escherichia coli: energetics and transcriptional regulation in response to electron acceptors. Unden G, et al. **Biochim Biophys Acta** 1997 Jul 4;1320(3):217–34 (129 ref.)

Aminoacyl–tRNA synthetase gene regulation in Bacillus subtilis. Condon C, et al. **Biochimie** 1996;78(6):381–9 (54 ref.)

Multiple degradation pathways of the rpsO mRNA of Escherichia coli. RNase E interacts with the 5' and 3' extremities of the primary transcript. Hajnsdorf E, et al. **Biochimie** 1996;78(6):416–24

Identification, sequences, and expression of Treponema pallidum chemotaxis genes. Greene SR, et al. **DNA Seq** 1997;7(5):267–84

Genomic diversity of mec regulator genes in methicillin–resistant Staphylococcus aureus and Staphylococcus epidermidis. Kobayashi N, et al. **Epidemiol Infect** 1996 Oct;117(2):289–95

SOS response as an adaptive response to DNA damage in prokaryotes. Shinagawa H. **EXS** 1996;77:221–35 (64 ref.)

Transcriptional regulation of stress–inducible genes in procaryotes. Yura T, et al. **EXS** 1996;77:165–81 (62 ref.)

Optimisation of the BgaB reporter system: determination of transcriptional regulation of stress responsive genes in Bacillus subtilis. Schrögel O, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):237–43

Minimal functional system required for expression of erythromycin resistance by msrA in Staphylococcus aureus RN4220. Ross JI, et al. **Gene** 1996 Dec 12;183(1–2):143–8

Regulation of the expression of Mycobacterium avium complex proteins differs according to the environment within host cells. Bermudez LE, et al. **Immunol Cell Biol** 1997 Feb;75(1):35–40

Molecular detection of Clostridium botulinum type E neurotoxin gene in smoked fish by polymerase chain reaction and capillary electrophoresis. Sciacchitano CJ, et al. **J AOAC Int** 1996 Jul–Aug;79(4):861–5

A transcriptional activator, FleQ, regulates mucin adhesion and flagellar gene expression in Pseudomonas aeruginosa in a cascade manner. Arora SK, et al. **J Bacteriol** 1997 Sep;179(17):5574–81

The VanS sensor negatively controls VanR–mediated transcriptional activation of glycopeptide resistance genes of Tn1546 and related elements in the absence of induction. Arthur M, et al. **J Bacteriol** 1997 Jan;179(1):97–106

An lrp–like gene of Bacillus subtilis involved in branched–chain amino acid transport. Belitsky BR, et al. **J Bacteriol** 1997 Sep;179(17):5448–57

Arginine biosynthesis and regulation in Lactobacillus plantarum: the carA gene and the argCJBDF cluster are divergently transcribed. Bringel F, et al. **J Bacteriol** 1997 Apr;179(8):2697–706

Transcription analysis of the Staphylococcus aureus gene encoding penicillin–binding protein 4. Domanski TL, et al. **J Bacteriol** 1997 Apr;179(8):2651–7

Genetic characterization and expression in heterologous hosts of the 3–(3–hydroxyphenyl)propionate catabolic pathway of Escherichia coli K–12. Ferrández A, et al. **J Bacteriol** 1997 Apr;179(8):2573–81

Specificity of tRNA–mRNA interactions in Bacillus subtilis tyrS antitermination. Grundy FJ, et al. **J Bacteriol** 1997 Apr;179(8):2587–94

In vivo expression of the Lactobacillus brevis S–layer gene. Kahala M, et al. **J Bacteriol** 1997 Jan;179(1):284–6

Characterization of the genes encoding a receptor–like histidine kinase and a cognate response regulator from a biphenyl/polychlorobiphenyl–degrading bacterium, Rhodococcus sp. strain M5. Labbé D, et al. **J Bacteriol** 1997 Apr;179(8):2772–6

Regulation of expression of the Lactobacillus pentosus xylAB operon. Lokman BC, et al. **J Bacteriol** 1997 Sep; 179(17):5391–7

A gene coding for a putative sigma 54 activator is developmentally regulated in Caulobacter crescentus. Marques MV, et al. **J Bacteriol** 1997 Sep;179(17):5502–10

Testosterone–regulated expression of enzymes involved in steroid and aromatic hydrocarbon catabolism in Comamonas testosteroni. Möbus E, et al. **J Bacteriol** 1997 Sep;179(18):5951–5

The pst operon of Bacillus subtilis has a phosphate–regulated promoter and is involved in phosphate transport but not

in regulation of the pho regulon. Qi Y, et al. **J Bacteriol** 1997 Apr;179(8):2534–9

Transcription of Staphylococcus aureus fibronectin binding protein genes is negatively regulated by agr and an agr–independent mechanism. Saravia–Otten P, et al. **J Bacteriol** 1997 Sep;179(17):5259–63

A 53–base–pair inverted repeat negatively regulates expression of the adjacent and divergently oriented cytochrome P450(BM–1) gene and its regulatory gene, bm1P1, in Bacillus megaterium. Shaw GC, et al. **J Bacteriol** 1997 Jan;179(1):280–3

Expression of the Bacillus subtilis ureABC operon is controlled by multiple regulatory factors including CodY, GlnR, TnrA, and Spo0H. Wray LV Jr, et al. **J Bacteriol** 1997 Sep;179(17):5494–501

Gene transcription and chromosome replication in Escherichia coli. Zhou P, et al. **J Bacteriol** 1997 Jan; 179(1):163–9

Gene organization and transcriptional regulation of the gntRKU operon involved in gluconate uptake and catabolism of Escherichia coli. Izu H, et al. **J Mol Biol** 1997 Apr 11;267(4):778–93

Genetic analyses of the interactions of the IS1–encoded proteins with the left end of IS1 and its insertion hotspot. Matsutani S. **J Mol Biol** 1997 Apr 4;267(3):548–60

Regulation of Escherichia coli topA gene transcription: involvement of a sigmaS–dependent promoter. Qi H, et al. **J Mol Biol** 1997 Apr 4;267(3):481–9

Bacterial expression of anti–DNA antibody domains. Stollar BD. **Methods** 1997 Jan;11(1):12–9

Expression of heat shock protein D 48.5 of Escherichia coli is subject to modulation by catabolite repression. Peruski LF Jr. **Microbiol Res** 1996 Aug;151(3):273–80

Metabolic regulation of lrp gene expression in Escherichia coli K–12. Chen CF, et al. **Microbiology** 1997 Jun;143 (Pt 6):2079–84

The aldA gene of Escherichia coli is under the control of at least three transcriptional regulators. Limón A, et al. **Microbiology** 1997 Jun;143 (Pt 6):2085–95

Regulation of exopolysaccharide production in Rhizobium leguminosarum biovar viciae WSM710 involves exoR. Reeve WG, et al. **Microbiology** 1997 Jun;143 (Pt 6):1951–8

The regulatory protein MucR binds to a short DNA region located upstream of the mucR coding region in Rhizobium meliloti. Bertram–Drogatz PA, et al. **Mol Gen Genet** 1997 May 20;254(5):529–38

Cloning, nucleotide sequence and transcriptional analysis of the uvrA gene from Neisseria gonorrhoeae. Black CG, et al. **Mol Gen Genet** 1997 May 20;254(5):479–85

A silent mutation in the ftsH gene of Escherichia coli that affects FtsH protein production and colicin tolerance. Makino S, et al. **Mol Gen Genet** 1997 May 20;254(5):578–83

Roles of RpoS (sigmaS), IHF and ppGpp in the expression of the hmp gene encoding the flavohemoglobin (Hmp) of Escherichia coli K–12. Membrillo–Hernandez J, et al. **Mol Gen Genet** 1997 May 20;254(5):599–603

Expression of the groESL operon is cell–cycle controlled in Caulobacter crescentus. Avedissian M, et al. **Mol Microbiol** 1996 Jan;19(1):79–89

Interchange of the active and silent S–layer protein genes of Lactobacillus acidophilus by inversion of the chromosomal slp segment. Boot HJ, et al. **Mol Microbiol** 1996 Aug;21(4):799–809

Post–transcriptional regulation of CspA expression in Escherichia coli. Brandi A, et al. **Mol Microbiol** 1996 Jan; 19(2):231–40

Expression of the tolQRA genes of Escherichia coli K–12 is controlled by the RcsC sensor protein involved in capsule synthesis. Clavel T, et al. **Mol Microbiol** 1996 Jan; 19(1):19–25

A dual role for the Bacillus subtilis glpD leader and the GlpP protein in the regulated expression of glpD: antitermination and control of mRNA stability. Glatz E, et al. **Mol Microbiol** 1996 Jan;19(2):319–28

Differential mRNA stability of the cspA gene in the cold–shock response of Escherichia coli. Goldenberg D, et al. **Mol Microbiol** 1996 Jan;19(2):241–8

The FinOP repressor system of plasmid R1: analysis of the antisense RNA control of traJ expression and conjugative DNA transfer. Koraimann G, et al. **Mol Microbiol** 1996 Aug;21(4):811–21

Transcriptional activation of the dnaA gene encoding the initiator for oriC replication by IciA protein, an inhibitor of in vitro oriC replication in Escherichia coli. Lee YS, et al. **Mol Microbiol** 1996 Jan;19(2):389–96

yst gene expression in Yersinia enterocolitica is positively regulated by a chromosomal region that is highly homologous to Escherichia coli host factor 1 gene (hfq). Nakao H, et al. **Mol Microbiol** 1995 Dec;18(5):859–65

Two–component regulatory system involved in transcriptional control of heavy–metal homoeostasis in Alcaligenes eutrophus. van der Lelie D, et al. **Mol Microbiol** 1997 Feb;23(3):493–503

The cyanobacterium Synechococcus sp. PCC 7942 possesses a close homologue to the chloroplast ClpC protein of higher plants. Clarke AK, et al. **Plant Mol Biol** 1996 Jul; 31(4):721–30

Trapping developmental promoters in Dictyostelium. Chang WT, et al. **Plasmid** 1995 Nov;34(3):175–83

Construction of novel shuttle vectors for use between moderately halophilic bacteria and Escherichia coli. Mellado E, et al. **Plasmid** 1995 Nov;34(3):157–64

The staphylococcal insertion sequence IS257 is active. Needham C, et al. **Plasmid** 1995 Nov;34(3):198–205

pTIM3, a plasmid delivery vector for a transposon–based inducible marker gene system in gram–negative bacteria. Saint CP, et al. **Plasmid** 1995 Nov;34(3):165–74

Characterization of six linked open reading frames necessary for pIP501–mediated conjugation. Wang A, et al. **Plasmid** 1995 Nov;34(3):206–10

Bacterial infection as assessed by in vivo gene expression. Heithoff DM, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):934–9

Overexpression of bacterio–opsin in Escherichia coli as a water–soluble fusion to maltose binding protein: efficient regeneration of the fusion protein and selective cleavage with trypsin. Chen GQ, et al. **Protein Sci** 1996 Mar; 5(3):456–67

Crystal structure of a phosphatase–resistant mutant of sporulation response regulator Spo0F from Bacillus subtilis. Madhusudan, et al. **Structure** 1996 Jun 15;4(6):679–90

Epigenetic phase variation of the pap operon in Escherichia coli. van der Woude M, et al. **Trends Microbiol** 1996 Jan; 4(1):5–9 (39 ref.)

[A genetic locus controlling biosynthesis of phenazine antibiotic in Pseudomonas fluorescens strain 2–79] Mavrodi DV, et al. **Dokl Akad Nauk** 1997 Jan;352(1):117–20 **(Rus)**

[The detection of and attempts to identify the chromosomal locus related to the expression of virulence and immunogenicity in Yersinia pestis] Gurevich GK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov–Dec; (6):21–4 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Stabilized expression of mRNA is associated with mycobacterial resistance controlled by Nramp1. Brown DH, et al. **Infect Immun** 1997 Feb;65(2):597–603

Molecular characterization of a 6.6–kilodalton Borrelia burgdorferi outer membrane–associated lipoprotein (lp6.6) which appears to be downregulated during mammalian infection. Lahdenne P, et al. **Infect Immun** 1997 Feb; 65(2):412–21

Borrelia burgdorferi activates nuclear factor–kappa B and is a potent inducer of chemokine and adhesion molecule gene expression in endothelial cells and fibroblasts. Ebnet K, et al. **J Immunol** 1997 Apr 1;158(7):3285–92

Expression of cytokine mRNA in gastric mucosa with Helicobacter pylori infection [see comments] Yamaoka Y, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1153–9. Comment in: Scand J Gastroenterol 1997 Feb;32(2);191–2.

[The effect of a vaccinal strain of the plague microbe on C3–receptor expression on the surfaces of peritoneal and alveolar macrophages] Vasil'eva GI, et al. **Mikrobiol Z** 1994 Jul–Sep;56(4):25–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Detection of genes regulating beta–lactamase production in Enterococcus faecalis and Staphylococcus aureus. Okamoto R, et al. **Antimicrob Agents Chemother** 1996 Nov; 40(11):2550–4

Expression of the multidrug resistance operon mexA–mexB–oprM in Pseudomonas aeruginosa: mexR encodes a regulator of operon expression. Poole K, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2021–8

Construction and characterization of a biotin–regulated gene expression system in Escherichia coli. Chang YS, et al. **Appl Biochem Biotechnol** 1997 May;66(2):147–58

The NAD(P)H–dependent glutamate dehydrogenase activities of Prevotella ruminicola B(1)4 can be attributed to one enzyme (GdhA), and gdhA expression is regulated in response to the nitrogen source available for growth. Wen Z, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3826–33

A pseudoknot is required for efficient translational initiation and regulation of the Escherichia coli rpsO gene coding for ribosomal protein S15. Ehresmann C, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1131–40 (34 ref.)

Translational regulation of infC operon in Bacillus stearothermophilus. Pediconi D, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1071–8 (25 ref.)

Regulation of the Escherichia coli S10 ribosomal protein operon by heterologous L4 ribosomal proteins. Zengel JM, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1105–12

Autogenous control of the suhB gene expression of Escherichia coli. Inada T, et al. **Biochimie** 1996; 78(3):209–12

Redox signal transduction: mutations shifting [2Fe–2S] centers of the SoxR sensor–regulator to the oxidized form. Hidalgo E, et al. **Cell** 1997 Jan 10;88(1):121–9

The NAD synthetase NadE (OutB) of Bacillus subtilis is a sigma B–dependent general stress protein. Antelmann H, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):405–9

Effect of carbon source on the expression of celA1, a cellulase–encoding gene from Streptomyces halstedii JM8. Fernández–Abalos JM, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):97–103

Expression of small RNAs by Bacillus sp. strain PS3 and B. subtilis cells during sporulation. Fink PS, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):387–92

Low–temperature–induced desaturation of fatty acids and expression of desaturase genes in the cyanobacterium Synechococcus sp. PCC 7002. Sakamoto T, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):313–20

Regulation and conservation of the heat–shock transcription factor sigma32. Yura T. **Genes Cells** 1996 Mar;1(3):277–84 (50 ref.)

Nitrogen deprivation of Anabaena sp. strain PCC 7120 elicits rapid activation of a gene cluster that is essential for uptake and utilization of nitrate. Cai Y, et al. **J Bacteriol** 1997 Jan;179(1):258–66

Characterization of cspB, a cold–shock–inducible gene from Lactococcus lactis, and evidence for a family of genes homologous to the Escherichia coli cspA major cold shock gene. Chapot–Chartier MP, et al. **J Bacteriol** 1997 Sep; 179(17):5589–93

Transcriptional regulation and locations of Agrobacterium tumefaciens genes required for complete catabolism of octopine. Cho K, et al. **J Bacteriol** 1997 Jan;179(1):1–8

Xanthine metabolism in Bacillus subtilis: characterization of the xpt–pbuX operon and evidence for purine– and nitrogen–controlled expression of genes involved in xanthine salvage and catabolism. Christiansen LC, et al. **J Bacteriol** 1997 Apr;179(8):2540–50

The trp RNA–binding attenuation protein regulates TrpG synthesis by binding to the trpG ribosome binding site of Bacillus subtilis. Du H, et al. **J Bacteriol** 1997 Apr; 179(8):2582–6

Differential levels of specific cytochrome c biogenesis proteins in response to oxygen: analysis of the ccl operon in Rhodobacter capsulatus. Gabbert KK, et al. **J Bacteriol** 1997 Sep;179(17):5422–8

Functional characterization of roles of GalR and GalS as regulators of the gal regulon. Geanacopoulos M, et al. **J Bacteriol** 1997 Jan;179(1):228–34

Molecular genetic analysis suggesting interactions between AppA and PpsR in regulation of photosynthesis gene expression in Rhodobacter sphaeroides 2.4.1. Gomelsky M, et al. **J Bacteriol** 1997 Jan;179(1):128–34

The alternative sigma factor sigma28 of Legionella pneumophila restores flagellation and motility to an Escherichia coli fliA mutant. Heuner K, et al. **J Bacteriol** 1997 Jan;179(1):17–23

Physiological factors affecting production of extracellular lipase (LipA) in Acinetobacter calcoaceticus BD413: fatty acid repression of lipA expression and degradation of LipA. Kok RG, et al. **J Bacteriol** 1996 Oct;178(20):6025–35

Effects of inactivation or overexpression of the sspF gene on properties of Bacillus subtilis spores. Loshon CA, et al. **J Bacteriol** 1997 Jan;179(1):272–5

Structure and regulation of expression of the Bacillus subtilis valyl–tRNA synthetase gene. Luo D, et al. **J Bacteriol** 1997 Apr;179(8):2472–8

The RNA–binding protein HF–I plays a global regulatory role which is largely, but not exclusively, due to its role in expression of the sigmaS subunit of RNA polymerase in Escherichia coli. Muffler A, et al. **J Bacteriol** 1997 Jan; 179(1):297–300

Regulation of gene expression by repressor localization: biochemical evidence that membrane and DNA binding by the PutA protein are mutually exclusive. Muro–Pastor AM, et al. **J Bacteriol** 1997 Apr;179(8):2788–91

Disappearance of the sigma E transcription factor from the forespore and the SpoIIE phosphatase from the mother cell contributes to establishment of cell–specific gene expression during sporulation in Bacillus subtilis. Pogliano K, et al. **J Bacteriol** 1997 May;179(10):3331–41

Cell cycle regulation of flagellar genes. Prüss BM, et al. **J Bacteriol** 1997 Sep;179(17):5602–4

Transcription of glutamine synthetase genes (glnA and glnN) from the cyanobacterium Synechocystis sp. strain PCC 6803 is differently regulated in response to nitrogen availability. Reyes JC, et al. **J Bacteriol** 1997 Apr; 179(8):2678–89

Quorum sensing in Aeromonas hydrophila and Aeromonas salmonicida: identification of the LuxRI homologs AhyRI and AsaRI and their cognate N–acylhomoserine lactone signal molecules. Swift S, et al. **J Bacteriol** 1997 Sep; 179(17):5271–81

Identification of the algZ gene upstream of the response regulator algR and its participation in control of alginate production in Pseudomonas aeruginosa. Yu H, et al. **J Bacteriol** 1997 Jan;179(1):187–93

Cellular and molecular physiology of Escherichia coli in the adaptation to aerobic environments. Iuchi S, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1055–63 (50 ref.)

Requirement of nitric oxide for induction of genes whose products are involved in nitric oxide metabolism in Rhodobacter sphaeroides 2.4.3. Kwiatkowski AV, et al. **J Biol Chem** 1996 Oct 4;271(40):24382–8

Regulation of the glutamate racemase of Escherichia coli investigated by site–directed mutagenesis. Doublet P, et al. **Microb Drug Resist** 1996 Spring;2(1):43–9

Effect of the SinR protein on the expression of the Bacillus subtilis 168 lytABC operon. Margot P, et al. **Microb Drug Resist** 1996 Spring;2(1):119–21

Ubiquitous distribution of the competence related genes comA and comC among isolates of Streptococcus pneumoniae. Ramirez M, et al. **Microb Drug Resist** 1997 Spring;3(1):39–52

Histidine biosynthetic pathway and genes: structure, regulation, and evolution. Alifano P, et al. **Microbiol Rev** 1996 Mar;60(1):44–69 (297 ref.)

Modulation of gene expression through chromosomal

positioning in Escherichia coli. Sousa C, et al. **Microbiology** 1997 Jun;143 (Pt 6):2071–8

Catabolite repression mediated by the catabolite control protein CcpA in Staphylococcus xylosus. Egeter O, et al. **Mol Microbiol** 1996 Aug;21(4):739–49

Regulatory inputs for the synthesis of ComK, the competence transcription factor of Bacillus subtilis. Hahn J, et al. **Mol Microbiol** 1996 Aug;21(4):763–75

Catabolite repression of the Bacillus subtilis gnt operon exerted by two catabolite-responsive elements. Miwa Y, et al. **Mol Microbiol** 1997 Mar;23(6):1203–13

Regulation of competence for genetic transformation in Streptococcus pneumoniae by an auto-induced peptide pheromone and a two-component regulatory system. Pestova EV, et al. **Mol Microbiol** 1996 Aug;21(4):853–62

Overexpression of the mexC–mexD–oprJ efflux operon in nfxB-type multidrug-resistant strains of Pseudomonas aeruginosa. Poole K, et al. **Mol Microbiol** 1996 Aug; 21(4):713–24

Mutagenesis of the D-E loop of photosystem II reaction centre protein D1. Function and assembly of photosystem II. Mulo P, et al. **Plant Mol Biol** 1997 Apr;33(6):1059–71

[Role of the rpoS gene in the regulation of expression of plasmid genes determining the synthesis of C51 microcin] Fomenko DE, et al. **Genetika** 1997 Feb;33(2):284–6 (Eng. Abstr.) **(Rus)**

[Phenotypic expression of the Ca2+-dependence trait in recombinant cells of Yersinia pestis (Lehmann, Neumann)] Mozharov OT, et al. **Genetika** 1996 Sep;32(9):1176–83 (Eng. Abstr.) **(Rus)**

[Analysis of expression of foreign genetic material under the control of heterogeneous promoters in the process of early development of the loach (Misgurnus fossilis L.)] Mukha DV, et al. **Genetika** 1996 Oct;32(10):1387–91 (Eng. Abstr.) **(Rus)**

[Effect of culture medium components on the accumulation of extracellular bacillary ribonucleases in culture fluid of recombinant strains of Escherichia coli] Gabdrakhmanova LA, et al. **Mikrobiologiia** 1996 Sep-Oct;65(5):599–606 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Benefit of transcription-coupled nucleotide excision repair for gene expression in u.v.-damaged Escherichia coli. Li BH, et al. **Mol Microbiol** 1995 Nov;18(4):615–22

Nucleotide sequence and transcriptional analysis of the flanking region of the gene (spb) for the trans-acting factor that controls light-mediated expression of the puf operon in Rhodobacter sphaeroides. Mizoguchi H, et al. **Plant Cell Physiol** 1997 May;38(5):558–67

GENE EXPRESSION REGULATION, DEVELOPMENTAL

Localization of Menkes gene expression in the mouse brain; its association with neurological manifestations in Menkes model mice. Iwase T, et al. **Acta Neuropathol (Berl)** 1996; 91(5):482–8

SF-1: a key regulator of development and function in the mammalian reproductive system. Ikeda Y. **Acta Paediatr Jpn** 1996 Aug;38(4):412–9 (45 ref.)

Gene regulation of cell adhesion molecules in neural morphogenesis. Edelman GM, et al. **Acta Paediatr Suppl** 1997 Jul;422:12–9 (41 ref.)

Development of connectin/titin and nebulin in striated muscles of chicken. Shimada Y, et al. **Adv Biophys** 1996; 33:223–33 (37 ref.)

Dopamine D2 receptor mRNA isoforms expression in the carotid body and petrosal ganglion of developing rabbits. Bairam A, et al. **Adv Exp Med Biol** 1996;410:285–9

Ontogenesis and expression of ALDH activity in the skin and the eye of the rat. Pappas P, et al. **Adv Exp Med Biol** 1997;414:73–80

Genetic control of kidney development. Dressler GR. **Adv Nephrol Necker Hosp** 1997;26:1–17 (86 ref.)

Loss of EDB+ fibronectin isoform is associated with differentiation of alveolar epithelial cells in human fetal lung. Arai H, et al. **Am J Pathol** 1997 Aug;151(2):403–12

A1 demonstrates restricted tissue distribution during embryonic development and functions to protect against cell death. Carrió R, et al. **Am J Pathol** 1996 Dec; 149(6):2133–42

Postnatal regulation of fibroblast growth factor ligand and receptor gene expression in rat thoracic aorta. Winkles JA, et al. **Am J Pathol** 1996 Dec;149(6):2119–31

Adrenal vasoactive intestinal peptide participates in neonatal corticosteroid production in the rat. Bodnar M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1163–72

Expression of insulin receptors and of 60-kDa receptor substrate in rat mature and immature enterocytes. Buts JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G217–26

Differential expression of transforming growth factor-beta receptors in rat kidney development. Choi ME, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F386–95

Distribution and developmentally regulated expression of murine polycystin. Geng L, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 2):F451–9

Localization of cyclooxygenase-1 and -2 in adult and fetal human kidney: implication for renal function. Kömhoff M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F460–8

Endogenous retinoids increase perinatal elastin gene expression in rat lung fibroblasts and fetal explants. McGowan SE, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L410–6

Expression of fibronectin mRNA splice variants by rabbit lung in vivo and by alveolar type II cells in vitro. Maniscalco WM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L972–80

Gestational and tissue-specific regulation of C1C-2 chloride channel expression. Murray CB, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L829–37

Postnatal development of the ob gene system: elevated leptin levels in suckling fa/fa rats. Rayner DV, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R446–50

Metanephric osteopontin regulates nephrogenesis in vitro. Rogers SA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F469–76

PKC-lambda is the atypical protein kinase C isoform expressed by immature ventricle. Rybin VO, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1636–42

A putative growth-related renal Na(+)-Pi cotransporter. Silverstein DM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R928–33

Developmental expression of SI is regulated in transgenic mice by an evolutionarily conserved promoter. Tung J, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G83–92

Development of inwardly rectifying K+ channel family in rat ventricular myocytes. Xie LH, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1741–50

Regulation of transferrin gene expression during lung development and injury. Yang F, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L417–26

Regulation of angiotensin II AT1 and AT2 receptors in neonatal ureteral obstruction. Yoo KH, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R503–9

Interferon-gamma production by the human preimplantation embryo. Özornek MH, et al. **Am J Reprod Immunol** 1997 Jun;37(6):435–7

Regulation of surfactant protein D in human fetal lung. Dulkerian SJ, et al. **Am J Respir Cell Mol Biol** 1996 Dec; 15(6):781–6

Human airway epithelia express a beta-defensin. McCray PB Jr, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):343–9

Hyperoxic injury decreases alveolar epithelial cell expression of vascular endothelial growth factor (VEGF) in neonatal rabbit lung. Maniscalco WM, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):557–67

Expression of carbonic anhydrase isozymes (CA-I, CA-II, CA-III) during postnatal development of the rat gastrointestinal tract. Igarashi S, et al. **Anat Anz** 1996 Aug; 178(4):369–73

Expression pattern of type II collagen mRNA during early vertebral development in the human embryo. Krengel S, et al. **Anat Embryol (Berl)** 1996 Jan;193(1):43–51

Evidence of G-protein alpha s and alpha olf subunits in developing human pancreas. Ferrand N, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:563–9

Ontogeny of PACAP and PACAP receptors in the rat brain: role of PACAP in the cerebellum during development. Gonzalez BJ, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:302–13; discussion 313–4 (51 ref.)

Molecular basis of cardiocyte cell specification. Goswami SK, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:259–66 (33 ref.)

Distinct spatio-temporal distributions of the NMDA receptor channel subunit mRNAs in the brain. Watanabe M, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:463–6

A conserved signaling pathway: the Drosophila toll-dorsal pathway. Belvin MP, et al. **Ann Rev Cell Dev Biol** 1996; 12:393–416 (107 ref.)

Organizing spatial pattern in limb development. Brook WJ, et al. **Ann Rev Cell Dev Biol** 1996;12:161–80 (100 ref.)

Developmental control of cathepsin B expression in bovine fetal muscles. Béchet DM, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):362–8

Separation by FPLC chromatofocusing of UDP-glucosyltransferases from three developmental stages of Drosophila melanogaster. Rausell C, et al. **Arch Insect Biochem Physiol** 1997;34(3):347–58

The frequency of homozygous deletion of a developmentally regulated Vh gene (Humhv3005) is increased in patients with chronic idiopathic thrombocytopenic purpura. Mo L, et al. **Autoimmunity** 1996;24(4):257–63

A member of the Met/HGF-receptor family is expressed in a BMP-4-like pattern in the ectoderm of Xenopus gastrulae. Aberger F, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):191–5

Cloning of a mouse smoothened cDNA and expression patterns of hedgehog signalling molecules during chondrogenesis and cartilage differentiation in clonal mouse EC cells, ATDC5. Akiyama H, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):142–7

Pancreatic GAPDH gene expression during ontogeny and acute pancreatitis induced by caerulein. Calvo EL, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):636–40

Developmental profile of homeobox gene expression during 3T3-L1 adipogenesis. Cowherd RM, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):470–5

Developmental changes in ob gene expression and circulating leptin peptide concentrations. Devaskar SU, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):44–7

Differential expression of a proteasomal subunit during chick development. Hutson MR, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):216–23

Expression of the JNK2-alpha1 gene in the developing chick brain [published erratum appears in Biochem Biophys Res Commun 1997 Jul 18;236(2):538] Ishikawa T, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):489–92

Developmentally regulated expression of APG-1, a member of heat shock protein 110 family in murine male germ cells. Kaneko Y, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):113–6

Perinatal expression and inducibility of human CYP3A7 in C57BL/6N transgenic mice. Li Y, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):312–7

Mouse adhalin: primary structure and expression during late stages of muscle differentiation in vitro. Liu L, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):227–35

Cloning of a cDNA encoding a novel sugar transporter expressed in the neonatal mouse hippocampus. Matsuo N, et al. **Biochem Biophys Res Commun** 1997 Sep 8; 238(1):126–9

Expression of the proliferation-related Ki-67 mRNA in the early development of murine embryo. Mitsuyoshi S, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):191–6

Differential expression of the two closely related LIM-class homeobox genes LH-2A and LH-2B during limb development. Nohno T, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):506–11

Ontogeny of glutamic acid decarboxylase gene expression in the mouse pancreas. Pleau JM, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):227–30

Phosphatidylethanolamine N-methyltransferase 2 and CTP-phosphocholine cytidylyltransferase expressions are related with protein kinase C isozymes in developmental liver growth. Sesca E, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):158–62

Specific developmental changes in the regulatory subunits of the 26 S proteasome in intersegmental muscles preceding eclosion in Manduca sexta. Takayanagi K, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):517–23

Cloning of Xenopus presenilin-alpha and -beta cDNAs and their differential expression in oogenesis and embryogenesis. Tsujimura A, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):392–6

FGF-8 is expressed during specific phases of rodent oocyte and spermatogonium development. Valve E, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):173–7

A novel family of TEA domain-containing transcription factors with distinct spatiotemporal expression patterns. Yasunami M, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):365–70

Identification and developmental expression of two activin receptors in baboon lung. Zhao Y, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):50–7

Expression and epitopic conservation of calponin in different smooth muscles and during development. Jin JP, et al. **Biochem Cell Biol** 1996;74(2):187–96

Developmental expression of the collagen-binding heat-shock protein GP46 and collagen types I and IV in rat tissues. Pak BJ, et al. **Biochem Cell Biol** 1996; 74(2):179–85

Gene expression of mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase in a poorly ketogenic mammal: effect of starvation during the neonatal period of the piglet. Adams SH, et al. **Biochem J** 1997 May 15;324 (Pt 1):65–73

Cloning and characterization of murine carnitine acetyltransferase: evidence for a requirement during cell cycle progression. Brunner S, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):403–10

Tissue-specific regulation of medium-chain acyl-CoA dehydrogenase gene by thyroid hormones in the developing rat. Djouadi F, et al. **Biochem J** 1997 May 15; 324 (Pt 1):289–94

mRNA encoding the beta-subunit of the mitochondrial F1-ATPase complex is a localized mRNA in rat hepatocytes. Egea G, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):557–65

Changes associated with aging and replicative senescence in the regulation of transcription factor nuclear factor-kappa B. Helenius M, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):603–8

Regulation of the rat cardiac troponin I gene by the transcription factor GATA-4. Murphy AM, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):393–401

Cloning of mouse 17beta-hydroxysteroid dehydrogenase type 2, and analysing expression of the mRNAs for types 1, 2, 3, 4 and 5 in mouse embryos and adult tissues. Mustonen MVJ, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):199–205

Developmental regulation of mRNA species for types II, IX and XI collagens during mouse embryogenesis. Perälä M, et al. **Biochem J** 1997 May 15;324 (Pt 1):209–16

Developmental and nutritional changes of ob and PPAR gamma 2 gene expression in rat white adipose tissue. Rousseau V, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):451–6

Isolation of a developmentally-regulated expressed sequence tag from bladder tissue using the mRNA differential display. Chaqour B, et al. **Biochem Mol Biol Int** 1996 Nov; 40(5):1011–6

Synchronous gene expressions during embryogenesis of Oncorhynchus masou (Yamame). Kanaya S, et al. **Biochem Mol Biol Int** 1996 May;39(2):261–6

Patterns of expression of Hoxa-11 in micromass cultures of

chick limb mesenchyme from various stages suggest a role for Hoxa-11 in the specification of the zeugopod. Rogina B. **Biochem Mol Biol Int** 1997 Jul;42(3):583-9

Expression of myosin heavy chain transcripts in normal and cardiac mutant Mexican axolotls. Ward SM, et al. **Biochem Mol Biol Int** 1996 Feb;38(1):113-21

Developmental expression of morphoregulatory genes in the mouse embryo: an analytical approach using a novel technology. Craig JC, et al. **Biochem Mol Med** 1997 Apr; 60(2):81-91

Effects of short-chain acyl-CoA dehydrogenase deficiency on development expression of metabolic enzyme genes in the mouse. Hinsdale ME, et al. **Biochem Mol Med** 1996 Apr;57(2):106-15

Tissue-specific developmental regulation of protein kinase C isoforms. Goldberg M, et al. **Biochem Pharmacol** 1996 Apr 26;51(8):1089-93

UDP-glucuronyl transferase enzyme family in both human and Balb/c mouse lung. Conner CE, et al. **Biochem Soc Trans** 1997 May;25(2):181S

Characterisation of the expression of Wnt-1 and Wnt-5A related genes from Lepeophtheirus salmonis during embryonic development. Labus MB, et al. **Biochem Soc Trans** 1996 May;24(2):253S

Neural cell adhesion molecule expression in the developing chick otic vesicle. Leon Y, et al. **Biochem Soc Trans** 1997 Feb;25(1):10S

Transcriptional control of globin gene switching during vertebrate development. Baron MH. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):51-72 (175 ref.)

Bone morphogenetic protein 2 transcripts in rapidly developing deer antler tissue contain an extended 5' non-coding region arising from a distal promoter. Feng JQ, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):47-52

Turnover of histone acetyl groups during sea urchin early development is not required for histone, heat shock and actin gene transcription. Jasinskas A, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):168-80

Regulation of heme oxygenase-2 by glucocorticoids in neonatal rat brain: characterization of a functional glucocorticoid response element. Raju VS, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):89-104

Temporal regulation of the Dictyostelium glycogen phosphorylase 2 gene. Rutherford CL, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):111-25

Preferential expression of alternatively spliced transcript of type II procollagen in the rabbit notochordal remnant and developing fibrocartilages. Takaishi H, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):253-8

A prespore-specific gene of Dictyostelium discoideum encodes the small subunit of ribonucleotide reductase. Tsang A, et al. **Biochim Biophys Acta** 1996 Nov 11; 1309(1-2):100-8

Transcription factors and head formation in vertebrates. Bally-Cuif L, et al. **Bioessays** 1997 Feb;19(2):127-35 (86 ref.)

Regulation of gene expression in developing epidermal epithelia. Byrne C. **Bioessays** 1997 Aug;19(8):691-8 (82 ref.)

Fish are like flies are like frogs: conservation of dorsal-ventral patterning mechanisms. Holley SA, et al. **Bioessays** 1997 Apr;19(4):281-4 (30 ref.)

The coming of age of ventralising homeobox genes in amphibian development. Lemaire P. **Bioessays** 1996 Sep; 18(9):701-4 (23 ref.)

Left-right asymmetry in vertebrate embryogenesis. Levin M. **Bioessays** 1997 Apr;19(4):287-96 (94 ref.)

Genetic analysis of craniofacial development in the vertebrate embryo. Schilling TF. **Bioessays** 1997 Jun;19(6):459-68 (56 ref.)

Patterning of the mammalian dentition in development and evolution. Stock DW, et al. **Bioessays** 1997 Jun; 19(6):481-90 (90 ref.)

Dueling orphans--interacting nuclear receptors coordinate Drosophila metamorphosis. Thummel CS. **Bioessays** 1997 Aug;19(8):669-72 (26 ref.)

Xenopus cyclin D2: cloning and expression in oocytes and during early development. Taïeb F, et al. **Biol Cell** 1996; 88(3):99-111

Ontogeny of steroidogenic enzyme gene expression in ovarian theca-interstitial cells in the rat: regulation by a paracrine theca-differentiating factor prior to achieving luteinizing hormone responsiveness. Gelety TJ, et al. **Biol Reprod** 1997 Apr;56(4):938-45

Ontogeny of androgen receptor-like immunoreactivity in the reproductive tract of male Monodelphis domestica. Sonea IM, et al. **Biol Reprod** 1997 Apr;56(4):852-60

Defects in yolk sac hematopoiesis in Mll-null embryos. Hess JL, et al. **Blood** 1997 Sep 1;90(5):1799-806

Mouse zeta- and alpha-globin genes: embryonic survival, alpha-thalassemia, and genetic background effects. Leder A, et al. **Blood** 1997 Aug 1;90(3):1275-82

A shortened life span of EKLF-/- adult erythrocytes, due to a deficiency of beta-globin chains, is ameliorated by human gamma-globin chains. Lim SK, et al. **Blood** 1997 Aug 1;90(3):1291-9

Wilms' tumor gene expression in human CD34+ hematopoietic progenitors during fetal development and early clonogenic growth [letter] Menssen HD, et al. **Blood** 1997 May 1;89(9):3486-7

Globin gene switching in transgenic mice carrying HS2-globin gene constructs. Roberts NA, et al. **Blood** 1997 Jan 15;89(2):713-23

The erythropoietin gene is expressed strongly in the mammalian mesonephric kidney. Wintour EM, et al. **Blood** 1996 Nov 1;88(9):3349-53

Mammalian homeobox B6 expression can be correlated with erythropoietin production sites and erythropoiesis during development, but not with hematopoietic or nonhematopoietic stem cell populations. Zimmermann F, et al. **Blood** 1997 Apr 15;89(8):2723-35

Localization and developmental changes of the expression of two inward rectifying K(+)-channel proteins in the rat brain. Miyashita T, et al. **Brain Res** 1997 Mar 7; 750(1-2):251-63

Transient developmental expression of CD15 in the motor and auditory cortex of the mouse. Ashwell KW, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):143-8

Calcium-sensing receptor in the rat hippocampus: a developmental study. Chattopadhyay N, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):13-21

Early molecular specification in the hippocampal rudiment: isolation of genes expressed in a region-specific manner in the embryonic telencephalon. Hatanaka Y. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):65-73

Calbindin-D28k is regulated by adrenal steroids in hypothalamic tissue during prenatal development. Lephart ED, et al. **Brain Res Dev Brain Res** 1997 May 20; 100(1):117-20

Calretinin immunoreactivity in the developing olfactory system of the rainbow trout. Porteros A, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):101-9

Alpha2B adrenoceptor mRNA expression during rat brain development. Winzer-Serhan UH, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):90-100

Sodium channel alpha-subunit mRNAs I, II, III, NaG, Na6 and hNE (PN1): different expression patterns in developing rat nervous system. Felts PA, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):71-82

GABAA receptor subunit expression changes in the rat cerebellum and cerebral cortex during aging. Gutiérrez A, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):59-70

Comparison of tissue distribution of two novel serine/threonine kinase genes containing the LIM motif (LIMK-1 and LIMK-2) in the developing rat. Mori T, et al. **Brain Res Mol Brain Res** 1997 May;45(2):247-54

Expression of the fibroblast growth factor family and their receptor family genes during mouse brain development. Ozawa K, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1-2):279-88

Comparison of RPTP zeta/beta, phosphacan, and trkB mRNA expression in the developing and adult rat nervous system and induction of RPTP zeta/beta and phosphacan mRNA following brain injury. Snyder SE, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):79-96

Cellular expression of the immediate early transcription factors Nurr1 and NGFI-B suggests a gene regulatory role in several brain regions including the nigrostriatal dopamine system. Zetterström RH, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):111-20

The ribosomal 5.8S RNA as a target site for p53 protein in cell differentiation and oncogenesis. Abou Elela S, et al. **Cancer Lett** 1997 Jul 15;117(1):23-8

Osf2/Cbfa1: a transcriptional activator of osteoblast differentiation [see comments] Ducy P, et al. **Cell** 1997 May 30;89(5):747-54. Comment in: Cell 1997 May 30;89(5):677-80.

Spatial and temporal controls target pal-1 blastomere-specification activity to a single blastomere lineage in C. elegans embryos. Hunter CP, et al. **Cell** 1996 Oct 18;87(2):217-26

Targeted disruption of Cbfa1 results in a complete lack of bone formation owing to maturational arrest of osteoblasts [see comments] Komori T, et al. **Cell** 1997 May 30; 89(5):755-64. Comment in: Cell 1997 May 30;89(5):677-80.

Photoreceptor cell differentiation requires regulated proteolysis of the transcriptional repressor Tramtrack. Li S, et al. **Cell** 1997 Aug 8;90(3):469-78

Identification of neurogenin, a vertebrate neuronal determination gene. Ma Q, et al. **Cell** 1996 Oct 4; 87(1):43-52

Cosuppression in Drosophila: gene silencing of Alcohol dehydrogenase by white-Adh transgenes is Polycomb dependent [see comments] Pal-Bhadra M, et al. **Cell** 1997 Aug 8;90(3):479-90. Comment in: Cell 1997 Aug 8;90(3):385-7.

TAF(II)s mediate activation of transcription in the Drosophila embryo. Sauer F, et al. **Cell** 1996 Dec 27; 87(7):1271-84

Miranda is required for the asymmetric localization of Prospero during mitosis in Drosophila. Shen CP, et al. **Cell** 1997 Aug 8;90(3):449-58

PHYL acts to down-regulate TTK88, a transcriptional repressor of neuronal cell fates, by a SINA-dependent mechanism. Tang AH, et al. **Cell** 1997 Aug 8;90(3):459-67

FOG, a multitype zinc finger protein, acts as a cofactor for transcription factor GATA-1 in erythroid and megakaryocytic differentiation. Tsang AP, et al. **Cell** 1997 Jul 11;90(1):109-19

Expression patterns of adhesion receptors in the developing mouse lung: functional implications. Buck CA, et al. **Cell Adhes Commun** 1996 Aug;4(2):69-87

Fibronectin isoform distribution in the mouse. I. The alternatively spliced EIIIB, EIIIA, and V segments show widespread codistribution in the developing mouse embryo. Peters JH, et al. **Cell Adhes Commun** 1996 Aug;4(2):103-25

Differential expression of MEK1 and MEK2 during mouse development. Alessandrini A, et al. **Cell Growth Differ** 1997 May;8(5):505-11

Expression patterns of the E2F family of transcription factors during murine epithelial development. Dagnino L, et al. **Cell Growth Differ** 1997 May;8(5):553-63

Absence of MEF2 binding to the A/T-rich element in the muscle creatine kinase (MCK) enhancer correlates with lack of early expression of the MCK gene in embryonic mammalian muscle. Ferrari S, et al. **Cell Growth Differ** 1997 Jan;8(1):23-34

Regulation of melanocyte differentiation and growth. Goding CR, et al. **Cell Growth Differ** 1997 Sep;8(9):935-40 (18 ref.)

C-Jun and JunD suppress maturation of chondrocytes. Kameda T, et al. **Cell Growth Differ** 1997 May;8(5):495-503

Molecular cloning, expression, and developmental characterization of the murine retinoblastoma-related gene Rb2/p130. Pertile P, et al. **Cell Growth Differ** 1995 Dec; 6(12):1659-64

Colonic expression of c-myb is initiated in utero and continues throughout adult life. Rosenthal MA, et al. **Cell Growth Differ** 1996 Jul;7(7):961-7

Transcriptional specificity of the pluripotent embryonic stem cell. Scherer CA, et al. **Cell Growth Differ** 1996 Oct; 7(10):1393-401

Progesterone receptors in the mouse mammary duct: distribution and developmental regulation. Silberstein GB, et al. **Cell Growth Differ** 1996 Jul;7(7):945-52

PAX: developmental control genes in cell growth and differentiation. Stuart ET, et al. **Cell Growth Differ** 1996 Mar;7(3):405-12 (80 ref.)

Developmental control of heat shock and chaperone gene expression. Hsp 70 genes and heat shock factors during preimplantation phase of mouse development. Christians E, et al. **Cell Mol Life Sci** 1997 Feb;53(2):168-78 (62 ref.)

Heat shock protein gene expression during Xenopus development. Heikkila JJ, et al. **Cell Mol Life Sci** 1997 Jan;53(1):114-21

Heat shock protein gene expression during embryonic development of the zebrafish. Krone PH, et al. **Cell Mol Life Sci** 1997 Jan;53(1):122-9 (90 ref.)

Regulation of heat shock gene induction and expression during Drosophila development. Michaud S, et al. **Cell Mol Life Sci** 1997 Jan;53(1):104-13 (112 ref.)

Expression of platelet-derived growth factor (PDGF) receptor alpha-subunit in mouse brain: comparison of Patch mutants and normal littermates. Zhang FX, et al. **Cell Mol Neurobiol** 1996 Aug;16(4):479-87

Temporal and spatial expression of distinct troponin T genes in embryonic/larval tail striated muscle and adult body wall smooth muscle of ascidian. Endo T, et al. **Cell Struct Funct** 1997 Feb;22(1):197-203

Gene expression and immunolocalisation of amelogenins in developing embryonic and neonatal hamster teeth. Karg HA, et al. **Cell Tissue Res** 1997 Jun;288(3):545-55

Expression of the gap junction protein connexin43 in the subependymal layer and the rostral migratory stream of the mouse: evidence for an inverse correlation between intensity of connexin43 expression and cell proliferation activity. Miragall F, et al. **Cell Tissue Res** 1997 Feb; 287(2):243-53

Genes that control lung liquid. Giles F. Filley Lecture. Barker PM. **Chest** 1997 Jun;111(6 Suppl):105S-110S (38 ref.)

Genomic organization and developmental expression of aquaporin-5 in lung. Lee MD, et al. **Chest** 1997 Jun;111(6 Suppl):111S-113S

Transcriptional regulation of the surfactant protein-A gene in fetal lung. Mendelson CR, et al. **Chest** 1997 Jun;111(6 Suppl):96S-104S (32 ref.)

The integrin very late antigen-4 is expressed in human smooth muscle cell. Involvement of alpha 4 and vascular cell adhesion molecule-1 during smooth muscle cell differentiation. Duplàa C, et al. **Circ Res** 1997 Feb; 80(2):159-69

The murine amelogenin promoter: developmentally regulated expression in transgenic animals. Snead ML, et al. **Connect Tissue Res** 1996;35(1-4):41-7

Gene regulatory mechanisms operative on hematopoietic cells: proliferation, differentiation, and neoplasia. Calabretta B, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1-2):117-24 (36 ref.)

Developmental regulation of elastin gene expression. Perrin S, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1-2):1-10 (78 ref.)

Translational control during early development. Stebbins-Boaz B, et al. **Crit Rev Eukaryot Gene Expr** 1997; 7(1-2):73-94 (159 ref.)

Pleiotrophin and midkine in normal development and tumor biology. Kurtz A, et al. **Crit Rev Oncog** 1995;6(2):151-77 (25 ref.)

The genetic control of early tooth development. Maas R, et al. **Crit Rev Oral Biol Med** 1997;8(1):4-39 (312 ref.)

Proneural function of neurogenic genes in the developing Drosophila eye. Baker NE, et al. **Curr Biol** 1997 Feb 1; 7(2):122-32

Evolution of proneural atonal expression during distinct regulatory phases in the developing Drosophila eye. Baker NE, et al. **Curr Biol** 1996 Oct 1;6(10):1290-301

Serrate and wingless cooperate to induce vestigial gene

expression and wing formation in Drosophila. Couso JP, et al. **Curr Biol** 1995 Dec 1;5(12):1437–48
Tumor suppressors: a developing role for p53? Hall PA, et al. **Curr Biol** 1997 Mar 1;7(3):R144–7 (23 ref.)
Embryonic asymmetry: left TGFbeta at the right time? King T, et al. **Curr Biol** 1997 Apr 1;7(4):R212–5 (25 ref.)
Left–right asymmetry: The embryo's one–sided genes. King T, et al. **Curr Biol** 1995 Dec 1;5(12):1364–6 (16 ref.)
Requirement for EGF receptor signalling in neural recruitment during formation of Drosophila chordotonal sense organ clusters [see comments] Lage P, et al. **Curr Biol** 1997 Mar 1;7(3):166–75. Comment in: Curr Biol 1997 Mar 1;7(3):132–5.
Epigenetic inheritance in the mouse. Roemer I, et al. **Curr Biol** 1997 Apr 1;7(4):277–80
Muscles in the Drosophila second thoracic segment are patterned independently of autonomous homeotic gene function. Roy S, et al. **Curr Biol** 1997 Apr 1;7(4):222–7
Early developmental expression and experimental axis determination by the chicken Vg1 gene. Seleiro EA, et al. **Curr Biol** 1996 Nov 1;6(11):1476–86
Limb morphogenesis: connections between patterning and growth. Serrano N, et al. **Curr Biol** 1997 Mar 1; 7(3):R186–95 (52 ref.)
Pattern formation: The link between ovary and embryo. Stein D. **Curr Biol** 1995 Dec 1;5(12):1360–3 (16 ref.)
A myogenic switch. Muscle development. Taylor MV. **Curr Biol** 1996 Aug 1;6(8):924–6 (16 ref.)
Regulation of differentiation by TGF–beta. Moses HL, et al. **Curr Opin Genet Dev** 1996 Oct;6(5):581–6 (61 ref.)
Mechanisms of translational control in early development. Seydoux G. **Curr Opin Genet Dev** 1996 Oct;6(5):555–61 (65 ref.)
Developmental regulation of V(D)J recombination and lymphocyte differentiation. Willerford DM, et al. **Curr Opin Genet Dev** 1996 Oct;6(5):603–9 (62 ref.)
Peroxisome proliferator–activated receptor gamma and the control of adipogenesis. Brun RP, et al. **Curr Opin Lipidol** 1997 Aug;8(4):212–8 (55 ref.)
Regulation of recombination activating gene expression during lymphocyte development. Grawunder U, et al. **Curr Top Microbiol Immunol** 1996;217:31–43 (60 ref.)
E2A–Pbx1 induces growth, blocks differentiation, and interacts with other homeodomain proteins regulating normal differentiation. Kamps MP. **Curr Top Microbiol Immunol** 1997;220:25–43 (68 ref.)
Developmental and molecular regulation of immunoglobulin class switch recombination. Lorenz M, et al. **Curr Top Microbiol Immunol** 1996;217:151–69 (80 ref.)
LERK–7: a ligand of the Eph–related kinases is developmentally regulated in the brain. Kozlosky CJ, et al. **Cytokine** 1997 Aug;9(8):540–9
Loss of occludin and functional tight junctions, but not ZO–1, during neural tube closure—remodeling of the neuroepithelium prior to neurogenesis. Aaku–Saraste E, et al. **Dev Biol** 1996 Dec 15;180(2):664–79
Platelet–activating factor acetylhydrolase expression and activity suggest a link between neuronal migration and platelet–activating factor. Albrecht U, et al. **Dev Biol** 1996 Dec 15;180(2):579–93
The expression and regulation of follistatin and a follistatin–like gene during avian somite compartmentalization and myogenesis. Amthor H, et al. **Dev Biol** 1996 Sep 15;178(2):343–62
Regulation of transcriptional activity during the first and second cell cycles in the preimplantation mouse embryo. Aoki F, et al. **Dev Biol** 1997 Jan 15;181(2):296–307
In vitro preselection of gene–trapped embryonic stem cell clones for characterizing novel developmentally regulated genes in the mouse. Baker RK, et al. **Dev Biol** 1997 May 15;185(2):201–14
Relationships between protein isoforms and genetic functions demonstrate functional redundancy at the Broad–Complex during Drosophila metamorphosis. Bayer CA, et al. **Dev Biol** 1997 Jul 15;187(2):267–82
A role for Indian hedgehog in extraembryonic endoderm differentiation in F9 cells and the early mouse embryo. Becker S, et al. **Dev Biol** 1997 Jul 15;187(2):298–310
Transgenic analysis of a potential Hoxd–11 limb regulatory element present in tetrapods and fish. Beckers J, et al. **Dev Biol** 1996 Dec 15;180(2):543–53
Myoblast alpha v beta3 integrin levels are controlled by transcriptional regulation of expression of the beta3 subunit and down–regulation of beta3 subunit expression is required for skeletal muscle cell differentiation. Blaschuk KL, et al. **Dev Biol** 1997 Apr 15;184(2):266–77
AltFGF–2, a novel ER–associated FGF–2 protein isoform: its embryonic distribution and functional analysis during neural tube development. Borja AZM, et al. **Dev Biol** 1996 Dec 15;180(2):680–92
Distinct signal/response mechanisms regulate pax1 and QmyoD activation in sclerotomal and myotomal lineages of quail somites. Borycki AG, et al. **Dev Biol** 1997 May 15;185(2):185–200
Genetic relationships between the mutations spade and Sternopleural and the wingless gene in Drosophila development. Buratovich MA, et al. **Dev Biol** 1997 May 15;185(2):244–60
Biparous: a novel bHLH gene expressed in neuronal and glial precursors in Drosophila. Bush A, et al. **Dev Biol** 1996 Dec 15;180(2):759–72
Widespread expression of beta1 integrins in the developing chick retina: evidence for a role in migration of retinal ganglion cells. Cann GM, et al. **Dev Biol** 1996 Nov 25; 180(1):82–96
Tbx6, a mouse T–Box gene implicated in paraxial mesoderm formation at gastrulation. Chapman DL, et al. **Dev Biol** 1996 Dec 15;180(2):534–42
Asymmetric expression of Notch/Delta/Serrate is associated with the anterior–posterior axis of feather buds. Chen CW, et al. **Dev Biol** 1997 Aug 1;188(1):181–7
Genes required for GLP–1 asymmetry in the early Caenorhabditis elegans embryo. Crittenden SL, et al. **Dev Biol** 1997 Jan 1;181(1):36–46
The Drosophila Broad–Complex early gene directly regulates late gene transcription during the ecdysone–induced puffing cascade. Crossgrove K, et al. **Dev Biol** 1996 Dec 15;180(2):745–58
Micromere formation at third cleavage is decisive for trochoblast specification in the embryogenesis of Patella vulgata. Damen WG, et al. **Dev Biol** 1996 Sep 15; 178(2):238–50
Tosca: a Drosophila gene encoding a nuclease specifically expressed in the female germline. Digilio FA, et al. **Dev Biol** 1996 Aug 25;178(1):90–100
Both myoblast lineage and innervation determine fiber type and are required for expression of the slow myosin heavy chain 2 gene. DiMario JX, et al. **Dev Biol** 1997 Aug 1; 188(1):167–80
The Pit–1 gene is regulated by distinct early and late pituitary–specific enhancers. DiMattia GE, et al. **Dev Biol** 1997 Feb 1;182(1):180–90
Transient expression of Dp140, a product of the Duchenne muscular dystrophy locus, during kidney tubulogenesis. Durbeej M, et al. **Dev Biol** 1997 Jan 15;181(2):156–67
A conserved element in the protein–coding sequence is required for normal expression of replication–dependent histone genes in developing Xenopus embryos. Ficzycz A, et al. **Dev Biol** 1997 Feb 1;182(1):21–32
Distinct and overlapping expression patterns of ligands for Eph–related receptor tyrosine kinases during mouse embryogenesis. Flenniken AM, et al. **Dev Biol** 1996 Nov 1;179(2):382–401
Modulation of gene expression in the embryonic digestive tract of C. elegans. Fukushige T, et al. **Dev Biol** 1996 Sep 15;178(2):276–88
Persistent expression of MNF identifies myogenic stem cells in postnatal muscles. Garry DJ, et al. **Dev Biol** 1997 Aug 15;188(2):280–94
Distinct stress–inducible and developmentally regulated heat shock transcription factors in Xenopus oocytes. Gordon S, et al. **Dev Biol** 1997 Jan 1;181(1):47–63
Evidence for the involvement of the Gli gene family in embryonic mouse lung development. Grindley JC, et al. **Dev Biol** 1997 Aug 15;188(2):337–48
Regulation and function of SF/HGF during migration of limb muscle precursor cells in chicken. Heymann S, et al. **Dev Biol** 1996 Dec 15;180(2):566–78
Cerebroglycan, a developmentally regulated cell–surface heparan sulfate proteoglycan, is expressed on developing axons and growth cones. Ivins JK, et al. **Dev Biol** 1997 Apr 15;184(2):320–32
Developmental profiles and ecdysteroid regulation of the mRNAs for two ecdysone receptor isoforms in the epidermis and wings of the tobacco hornworm, Manduca sexta. Jindra M, et al. **Dev Biol** 1996 Nov 25;180(1):258–72
GLD–1, a cytoplasmic protein essential for oocyte differentiation, shows stage– and sex–specific expression during Caenorhabditis elegans germline development. Jones AR, et al. **Dev Biol** 1996 Nov 25;180(1):165–83
Misexpression of nautilus induces myogenesis in cardioblasts and alters the pattern of somatic muscle fibers. Keller CA, et al. **Dev Biol** 1997 Jan 15;181(2):197–212
Embryonic and fetal myogenic programs act through separate enhancers at the MLC1F/3F locus. Kelly RG, et al. **Dev Biol** 1997 Jul 15;187(2):183–99
A somatic reproductive organ enhancer complex activates expression in both the developing and the mature Drosophila reproductive tract. Keplinger BL, et al. **Dev Biol** 1996 Nov 25;180(1):311–23
XATH–1, a vertebrate homolog of Drosophila atonal, induces a neuronal differentiation within ectodermal progenitors. Kim P, et al. **Dev Biol** 1997 Jul 1;187(1):1–12
Mechanisms of evolutionary changes in timing, spatial expression, and mRNA processing in the msp130 gene in a direct–developing sea urchin, Heliocidaris erythrogramma. Klueg KM, et al. **Dev Biol** 1997 Feb 1; 182(1):121–33
A new tinman–related gene, nkx2.7, anticipates the expression of nkx2.5 and nkx2.3 in zebrafish heart and pharyngeal endoderm. Lee KH, et al. **Dev Biol** 1996 Dec 15; 180(2):722–31
Mist1: a novel basic helix–loop–helix transcription factor exhibits a developmentally regulated expression pattern. Lemercier C, et al. **Dev Biol** 1997 Feb 1;182(1):101–13
Evidence for serum response factor–mediated regulatory networks governing SM22alpha transcription in smooth, skeletal, and cardiac muscle cells. Li L, et al. **Dev Biol** 1997 Jul 15;187(2):311–21
Esx1, a novel X chromosome–linked homeobox gene expressed in mouse extraembryonic tissues and male germ cells. Li Y, et al. **Dev Biol** 1997 Aug 1;188(1):85–95
Eph family receptors and their ligands distribute in opposing gradients in the developing mouse retina. Marcus RC, et al. **Dev Biol** 1996 Dec 15;180(2):786–9
Sonic hedgehog differentially regulates expression of GLI and GLI3 during limb development. Marigo V, et al. **Dev Biol** 1996 Nov 25;180(1):273–83
SpHmx, a sea urchin homeobox gene expressed in embryonic pigment cells. Martinez P, et al. **Dev Biol** 1997 Jan 15; 181(2):213–22
Multigenic control of the localization of the zone of polarizing activity in limb morphogenesis in the mouse. Masuya H, et al. **Dev Biol** 1997 Feb 1;182(1):42–51
A receptor tyrosine kinase, Sky, and its ligand Gas 6 are expressed in gonads and support primordial germ cell growth or survival in culture. Matsubara N, et al. **Dev Biol** 1996 Dec 15;180(2):499–510
Mouse Otlx2/RIEG expression in the odontogenic epithelium precedes tooth initiation and requires mesenchyme–derived signals for its maintenance. Mucchielli ML, et al. **Dev Biol** 1997 Sep 15;189(2):275–84
Expression of avian Pax1 and Pax9 is intrinsically regulated in the pharyngeal endoderm, but depends on environmental influences in the paraxial mesoderm. Müller TS, et al. **Dev Biol** 1996 Sep 15;178(2):403–17
The Drosophila kekkon genes: novel members of both the leucine–rich repeat and immunoglobulin superfamilies expressed in the CNS. Musacchio M, et al. **Dev Biol** 1996 Aug 25;178(1):63–76
The expression of the mouse Zic1, Zic2, and Zic3 gene suggests an essential role for Zic genes in body pattern formation. Nagai T, et al. **Dev Biol** 1997 Feb 15; 182(2):299–313
Xbap, a vertebrate gene related to bagpipe, is expressed in developing craniofacial structures and in anterior gut muscle. Newman CS, et al. **Dev Biol** 1997 Jan 15; 181(2):223–33
Gene expression in the limbless mutant: polarized gene expression in the absence of Shh and an AER. Noramly S, et al. **Dev Biol** 1996 Nov 1;179(2):339–46
Activation of the reaper gene during ectopic cell killing in Drosophila. Nordstrom W, et al. **Dev Biol** 1996 Nov 25; 180(1):213–26
Transcriptional analysis of the candidate spermatogenesis gene Ube1y and of the closely related Ube1x shows that they are coexpressed in spermatogonia and spermatids but are repressed in pachytene spermatocytes. Odorisio T, et al. **Dev Biol** 1996 Nov 25;180(1):336–43
Cell cycle length affects gene expression and pattern formation in limbs. Ohsugi K, et al. **Dev Biol** 1997 Sep 1;189(1):13–21
GATA–2 is a maternal transcription factor present in Xenopus oocytes as a nuclear complex which is maintained throughout early development. Partington GA, et al. **Dev Biol** 1997 Jan 15;181(2):144–55
Cloning and early dorsal axial expression of Flik, a chick follistatin–related gene: evidence for involvement in dorsalization/neural induction. Patel K, et al. **Dev Biol** 1996 Sep 15;178(2):327–42
The role of HOM–C genes in segmental transformations: reexamination of the Drosophila Sex combs reduced embryonic phenotype. Pederson JD, et al. **Dev Biol** 1996 Nov 25;180(1):131–42
The role of planar and early vertical signaling in patterning the expression of Hoxb–1 in Xenopus. Poznanski A, et al. **Dev Biol** 1997 Apr 15;184(2):351–66
Developmental expression of Brca2 colocalizes with Brca1 and is associated with proliferation and differentiation in multiple tissues. Rajan JV, et al. **Dev Biol** 1997 Apr 15; 184(2):385–401
Cadherins in the developing central nervous system: an adhesive code for segmental and functional subdivisions. Redies C, et al. **Dev Biol** 1996 Dec 15;180(2):413–23 (61 ref.)
Chicken Nkx–2.8: a novel homeobox gene expressed in early heart progenitor cells and pharyngeal pouch–2 and –3 endoderm. Reecy JM, et al. **Dev Biol** 1997 Aug 15; 188(2):295–311
Lens–specific expression of PDGF–A alters lens growth and development. Reneker LW, et al. **Dev Biol** 1996 Dec 15; 180(2):554–65
A mutation in zebrafish affecting a localized cellular function required for normal ear development. Riley BB, et al. **Dev Biol** 1996 Nov 1;179(2):427–35
Expression pattern of collagen IX and potential role in the segmentation of the peripheral nervous system. Ring C, et al. **Dev Biol** 1996 Nov 25;180(1):41–53
A potential role of R–cadherin in striated muscle formation. Rosenberg P, et al. **Dev Biol** 1997 Jul 1;187(1):55–70
Increased expression of laminin–1 and collagen (IV) subunits in the aganglionic bowel of ls/ls, but not c–ret –/– mice. Rothman TP, et al. **Dev Biol** 1996 Sep 15;178(2):498–513
Inhibition of chondrogenesis by Wnt gene expression in vivo and in vitro. Rudnicki JA, et al. **Dev Biol** 1997 May 1; 185(1):104–18
Identification of novel paired homeodomain protein related to C. elegans unc–4 as a potential downstream target of MASH1. Saito T, et al. **Dev Biol** 1996 Nov 25;180(1):143–55
Two isoforms of orthodenticle–related proteins (HpOtx) bind to the enhancer element of sea urchin arylsulfatase gene. Sakamoto N, et al. **Dev Biol** 1997 Jan 15;181(2):284–95
Molecular characterization of prothoracicotropic hormone (PTTH) from the giant silkmoth Antheraea pernyi: developmental appearance of PTTH–expressing cells and relationship to circadian clock cells in central brain.

Sauman I, et al. **Dev Biol** 1996 Sep 15;178(2):418–29
Impaired mammary gland development and function in mice lacking LAR receptor-like tyrosine phosphatase activity. Schaapveld RQ, et al. **Dev Biol** 1997 Aug 1;188(1):134–46
Novel expression gradients of Eph-like receptor tyrosine kinases in the developing chick retina. Sefton M, et al. **Dev Biol** 1997 Aug 15;188(2):363–8
Jagged2: a serrate-like gene expressed during rat embryogenesis. Shawber C, et al. **Dev Biol** 1996 Nov 25; 180(1):370–6
Chicken transcription factor AP-2: cloning, expression and its role in outgrowth of facial prominences and limb buds. Shen H, et al. **Dev Biol** 1997 Aug 15;188(2):248–66
Developmental regulation of the laminin alpha5 chain suggests a role in epithelial and endothelial cell maturation. Sorokin LM, et al. **Dev Biol** 1997 Sep 15;189(2):285–300
Regulation of paraxis expression and somite formation by ectoderm- and neural tube-derived signals. Sosić D, et al. **Dev Biol** 1997 May 15;185(2):229–43
Differential activation of the clustered homeobox genes CNOT2 and CNOT1 during notogenesis in the chick. Stein S, et al. **Dev Biol** 1996 Dec 15;180(2):519–33
PCNA mRNA has a 3'UTR antisense to yellow crescent RNA and is localized in ascidian eggs and embryos. Swalla BJ, et al. **Dev Biol** 1996 Aug 25;178(1):23–34
Retinoic acid changes the proximodistal developmental competence and affinity of distal cells in the developing chick limb bud. Tamura K, et al. **Dev Biol** 1997 Aug 15; 188(2):224–34
Local delivery of TGF beta2 can substitute for placode epithelium to induce mesenchymal condensation during skin appendage morphogenesis. Ting-Berreth SA, et al. **Dev Biol** 1996 Nov 1;179(2):347–59
Smooth muscle lineage diversity in the chick embryo. Two types of aortic smooth muscle cell differ in growth and receptor-mediated transcriptional responses to transforming growth factor-beta. Topouzis S, et al. **Dev Biol** 1996 Sep 15;178(2):430–45
Lineage-specific regulation of the neural differentiation gene MASH1. Verma-Kurvari S, et al. **Dev Biol** 1996 Dec 15; 180(2):605–17
Model systems for the study of kidney development: use of the pronephros in the analysis of organ induction and patterning. Vize PD, et al. **Dev Biol** 1997 Aug 15; 188(2):189–204 (111 ref.)
Differential expression of two gamma-tubulin isoforms during gametogenesis and development in Drosophila. Wilson PG, et al. **Dev Biol** 1997 Apr 15;184(2):207–21
Disruption of cell adhesion in Xenopus embryos by Pagliaccio, an Eph-class receptor tyrosine kinase. Winning RS, et al. **Dev Biol** 1996 Nov 1;179(2):309–19
Troponin T gene switching is developmentally regulated by plasma-borne factors in parabiotic chicks. Wong TS, et al. **Dev Biol** 1996 Dec 15;180(2):732–44
GABAergic neurons in the embryonic olfactory pit/vomeronasal organ: maintenance of functional GABAergic synapses in olfactory explants. Wray S, et al. **Dev Biol** 1996 Dec 15;180(2):631–45
A heart segmental defect in the anterior–posterior axis of a transgenic mutant mouse. Yamamura H, et al. **Dev Biol** 1997 Jun 1;186(1):58–72
Different MRF4 knockout alleles differentially disrupt Myf-5 expression: cis-regulatory interactions at the MRF4/Myf-5 locus. Yoon JK, et al. **Dev Biol** 1997 Aug 15;188(2):349–62
Control of early neurogenesis of the Drosophila brain by the head gap genes tll, otd, ems, and btd. Younossi-Hartenstein A, et al. **Dev Biol** 1997 Feb 15; 182(2):270–83
The inhibition of differentiation caused by TGFbeta in fetal myoblasts is dependent upon selective expression of PKCtheta: a possible molecular basis for myoblast diversification during limb histogenesis. Zappelli F, et al. **Dev Biol** 1996 Nov 25;180(1):156–64
The developmental expression in the rat CNS and peripheral tissues of proteases PC5 and PACE4 mRNAs: comparison with other proprotein processing enzymes. Zheng M, et al. **Dev Biol** 1997 Jan 15;181(2):268–83
cAMP-dependent protein kinase is required for the expression of a gene specifically expressed in Dictyostelium prestalk cells. Zhukovskaya N, et al. **Dev Biol** 1996 Oct 10;179(1):27–40
A molecular mechanism for synapse elimination: novel inhibition of locally generated thrombin delays synapse loss in neonatal mouse muscle. Zoubine MN, et al. **Dev Biol** 1996 Nov 1;179(2):447–57
Temporospatial expression of the small HSP/alpha B-crystallin in cardiac and skeletal muscle during mouse development. Benjamin IJ, et al. **Dev Dyn** 1997 Jan; 208(1):75–84
Acceleration of somitic myogenesis in embryos of myogenin promoter-MRF4 transgenic mice. Block NE, et al. **Dev Dyn** 1996 Dec;207(4):382–94
Expression of the T-box family genes, Tbx1-Tbx5, during early mouse development. Chapman DL, et al. **Dev Dyn** 1996 Aug;206(4):379–90
Expression patterns of the four nuclear factor I genes during mouse embryogenesis indicate a potential role in development. Chaudhry AZ, et al. **Dev Dyn** 1997 Mar; 208(3):313–25
Biliary glycoprotein 1 expression during embryogenesis: correlation with events of epithelial differentiation, mesenchymal-epithelial interactions, absorption, and myogenesis. Daniels E, et al. **Dev Dyn** 1996 Jul; 206(3):272–90
Vertical induction of engrailed-2 and other region-specific markers in the early chick embryo. Darnell DK, et al. **Dev Dyn** 1997 May;209(1):45–58
Expression of the helix-loop-helix genes Id-1 and NSCL-1 during cerebellar development. Duncan MK, et al. **Dev Dyn** 1997 Jan;208(1):107–14
Shh expression in developing and regenerating limb buds of Xenopus laevis. Endo T, et al. **Dev Dyn** 1997 Jun; 209(2):227–32
Disruption of Msx-1 and Msx-2 reveals roles for these genes in craniofacial, eye, and axial development. Foerst-Potts L, et al. **Dev Dyn** 1997 May;209(1):70–84
Cloning of rat type I receptor cDNA for bone morphogenetic protein-2 and bone morphogenetic protein-4, and the localization compared with that of the ligands. Ikeda T, et al. **Dev Dyn** 1996 Jul;206(3):318–29
Each member of the Id gene family exhibits a unique expression pattern in mouse gastrulation and neurogenesis. Jen Y, et al. **Dev Dyn** 1997 Jan;208(1):92–106
Grg3, a murine Groucho-related gene, is expressed in the developing nervous system and in mesenchyme-induced epithelial structures. Leon C, et al. **Dev Dyn** 1997 Jan; 208(1):11–24
Expression of the pair-rule gene odd Oz (odz) in imaginal tissues. Levine A, et al. **Dev Dyn** 1997 May;209(1):1–14
Spatial and temporal changes of type VI collagen expression during mouse development. Marvulli D, et al. **Dev Dyn** 1996 Aug;206(4):447–54
The CRABP I gene contains two separable, redundant regulatory regions active in neural tissues in transgenic mouse embryos. Means AL, et al. **Dev Dyn** 1997 May; 209(1):59–69
Spatial regulation of floating head expression in the developing notochord. Melby AE, et al. **Dev Dyn** 1997 Jun;209(2):156–65
Expression of the cCdx-B homeobox gene in chick embryo suggests its participation in rostrocaudal axial patterning. Morales AV, et al. **Dev Dyn** 1996 Aug;206(4):343–53
Comparative analysis of AP-2 alpha and AP-2 beta gene expression during murine embryogenesis. Moser M, et al. **Dev Dyn** 1997 Jan;208(1):115–24
Inactivation of two mouse alkaline phosphatase genes and establishment of a model of infantile hypophosphatasia. Narisawa S, et al. **Dev Dyn** 1997 Mar;208(3):432–46
Identification and characterization of up-regulated genes during chondrocyte hypertrophy. Nurminskaya M, et al. **Dev Dyn** 1996 Jul;206(3):260–71
The mouse Nkx2-3 homeodomain gene is expressed in gut mesenchyme during pre- and postnatal mouse development. Pabst O, et al. **Dev Dyn** 1997 May; 209(1):29–35
Spina bifida occulta in homozygous Patch mouse embryos. Payne J, et al. **Dev Dyn** 1997 May;209(1):105–16
Distal regulatory elements control MRF4 gene expression in early and late myogenic cell populations. Pin CL, et al. **Dev Dyn** 1997 Mar;208(3):299–312
Differential expression of troponin C genes during tongue myogenesis. Prigozy TI, et al. **Dev Dyn** 1997 May; 209(1):36–44
Tissue and developmental specific expression of murine smooth muscle gamma-actin fusion genes in transgenic mice. Qian J, et al. **Dev Dyn** 1996 Oct;207(2):135–44
Morphogenetic potential of the chick leg interdigital mesoderm when diverted from the cell death program. Ros MA, et al. **Dev Dyn** 1997 Mar;208(3):406–19
Tissue-specific expression of murine Nkx3.1 in the male urogenital system. Sciavolino PJ, et al. **Dev Dyn** 1997 May; 209(1):127–38
Backfoot is a novel homeobox gene expressed in the mesenchyme of developing hind limb. Shang J, et al. **Dev Dyn** 1997 Jun;209(2):242–53
RPTP delta and the novel protein tyrosine phosphatase RPTP psi are expressed in restricted regions of the developing central nervous system. Sommer L, et al. **Dev Dyn** 1997 Jan;208(1):48–61
Erythroid Krüppel-like factor exhibits an early and sequentially localized pattern of expression during mammalian erythroid ontogeny. Southwood CM, et al. **Dev Dyn** 1996 Jul;206(3):248–59
Gene targeting the myf-5 locus with nlacZ reveals expression of this myogenic factor in mature skeletal muscle fibres as well as early embryonic muscle. Tajbakhsh S, et al. **Dev Dyn** 1996 Jul;206(3):291–300
Xenopus LIM motif-containing protein kinase, Xlimk1, is expressed in the developing head structure of the embryo. Takahashi T, et al. **Dev Dyn** 1997 Jun;209(2):196–205
Expression and regulation of steroid 5 alpha-reductase in the genital tubercle of the fetal rat. Tian H, et al. **Dev Dyn** 1997 May;209(1):117–26
Chicken homeobox gene Prox 1 related to Drosophila prospero is expressed in the developing lens and retina [published erratum appears in Dev Dyn 1996 Sep;207(1):120] Tomarev SI, et al. **Dev Dyn** 1996 Aug; 206(4):354–67
Common pattern of CD44 isoforms is expressed in morphogenetically active epithelia. Yu Q, et al. **Dev Dyn** 1997 Jan;208(1):1–10
IMP-L3, A 20-hydroxyecdysone-responsive gene encodes Drosophila lactate dehydrogenase: structural characterization and developmental studies. Abu-Shumays RL, et al. **Dev Genet** 1997;20(1):11–22
Ectopic expression of Fgf-4 in chimeric mouse embryos induces the expression of early markers of limb development in the lateral ridge. Abud HE, et al. **Dev Genet** 1996;19(1):51–65
Molecular control of muscle diversity and plasticity. Buonanno A, et al. **Dev Genet** 1996;19(2):95–107 (139 ref.)
Restricted expression of a novel retinoic acid responsive gene during limb bud dorsoventral patterning and endochondral ossification. Chazaud C, et al. **Dev Genet** 1996;19(1):66–73
POU homeodomain genes and myogenesis. Dominov JA, et al. **Dev Genet** 1996;19(2):108–18
Postnatal development and plasticity of specialized muscle fiber characteristics in the hindlimb. Garry DJ, et al. **Dev Genet** 1996;19(2):146–56
Analysis of limb patterning in BMP-7-deficient mice. Hofmann C, et al. **Dev Genet** 1996;19(1):43–50
Temporal and spatial regulation of a putative transcriptional repressor implicates it as playing a role in thyroid hormone-dependent organ transformation. Ishizuya-Oka A, et al. **Dev Genet** 1997;20(4):329–37
Temporal and spatial expression of an intestinal Na+/PO4 3- cotransporter correlates with epithelial transformation during thyroid hormone-dependent frog metamorphosis. Ishizuya-Oka A, et al. **Dev Genet** 1997;20(1):53–66
Ovarian defects in hybrids of the species pair Drosophila virilis and Drosophila texana. Lamnissou K. **Dev Genet** 1997;20(1):47–52
Developmental regulation of the Drosophila Tropomyosin I (TmI) gene is controlled by a muscle activator enhancer region that contains multiple cis-elements and binding sites for multiple proteins. Lin SC, et al. **Dev Genet** 1997; 20(4):297–306
Role of thyroid hormone and retinoid receptors in the homeotic transformation of tails into limbs in frogs. Maden M, et al. **Dev Genet** 1996;19(1):85–93
Developmental restriction of Mash-2 expression in trophoblast correlates with potential activation of the notch-2 pathway. Nakayama H, et al. **Dev Genet** 1997; 21(1):21–30
Modular elements of the MLC 1f/3f locus confer fiber-specific transcription regulation in transgenic mice. Neville C, et al. **Dev Genet** 1996;19(2):157–62
Functional analysis of trophoblast giant cells in parthenogenetic mouse embryos. Newman-Smith E, et al. **Dev Genet** 1997;20(1):1–10
Precocious sporulation and developmental lethality in yelA null mutants of Dictyostelium. Osherov N, et al. **Dev Genet** 1997;20(4):307–19
Murine subtilisin-like proteinase SPC6 is expressed during embryonic implantation, somitogenesis, and skeletal formation. Rancourt SL, et al. **Dev Genet** 1997;21(1):75–81
Expression of connexin31 and connexin43 genes in early rat embryos. Reuss B, et al. **Dev Genet** 1997;21(1):82–90
Shh, HoxD, Bmp-2, and Fgf-4 gene expression during development of the polydactylous talpid2, diplopodia1, and diplopodia4 mutant chick limb buds. Rodriguez C, et al. **Dev Genet** 1996;19(1):26–32
Genetics and limb development. Tickle C. **Dev Genet** 1996; 19(1):1–8 (80 ref.)
Green fluorescent protein/beta-galactosidase double reporters for visualizing Drosophila gene expression patterns. Timmons L, et al. **Dev Genet** 1997;20(4):338–47
Temporal and spatial regulation of expression of heparin-binding epidermal growth factor-like growth factor in the human endometrium: a possible role in blastocyst implantation. Yoo HJ, et al. **Dev Genet** 1997; 21(1):102–8
Molecular analysis of glial cell development in the canine 'shaking pup' mutant. Nadon NL, et al. **Dev Neurosci** 1996; 18(3):174–84
Function of the Drosophila POU domain transcription factor drifter as an upstream regulator of breathless receptor tyrosine kinase expression in developing trachea. Anderson MG, et al. **Development** 1996 Dec;122(12):4169–78
BMP-7 influences pattern and growth of the developing hindbrain of mouse embryos. Arkell R, et al. **Development** 1997 Jan;124(1):1–12
Nucleocytoplasmic localisation of extradenticle protein is spatially regulated throughout development in Drosophila. Aspland SE, et al. **Development** 1997 Feb;124(3):741–7
Planarian Hox genes: novel patterns of expression during regeneration. Bayascas JR, et al. **Development** 1997 Jan; 124(1):141–8
Reciprocal signaling between Drosophila epidermal muscle attachment cells and their corresponding muscles. Becker S, et al. **Development** 1997 Jul;124(13):2615–22
The patched signaling pathway mediates repression of gooseberry allowing neuroblast specification by wingless during Drosophila neurogenesis. Bhat KM. **Development** 1996 Sep;122(9):2921–32
Requirement for engrailed and invected genes reveals novel regulatory interactions between engrailed/invected, patched, gooseberry and wingless during Drosophila neurogenesis. Bhat KM, et al. **Development** 1997 May; 124(9):1675–88
Mutations affecting development of the midline and general body shape during zebrafish embryogenesis. Brand M, et al. **Development** 1996 Dec;123:129–42
Regulation and function of transcription factor GATA-1 during red blood cell differentiation. Briegel K, et al. **Development** 1996 Dec;122(12):3839–50

wingless signaling in the Drosophila eye and embryonic epidermis. Cadigan KM, et al. **Development** 1996 Sep; 122(9):2801–12

The SAR1 gene of Arabidopsis acts downstream of the AXR1 gene in auxin response. Cernac A, et al. **Development** 1997 Apr;124(8):1583–91

5-HT2B receptor-mediated serotonin morphogenetic functions in mouse cranial neural crest and myocardiac cells. Choi DS, et al. **Development** 1997 May;124(9):1745–55

Spatial regulation of a zebrafish patched homologue reflects the roles of sonic hedgehog and protein kinase A in neural tube and somite patterning. Concordet JP, et al. **Development** 1996 Sep;122(9):2835–46

Functional relationships between Notch, Su(H) and the bHLH genes of the E(spl) complex: the E(spl) genes mediate only a subset of Notch activities during imaginal development. de Celis JF, et al. **Development** 1996 Sep; 122(9):2719–28

Atonal, rough and the resolution of proneural clusters in the developing Drosophila retina. Dokucu ME, et al. **Development** 1996 Dec;122(12):4139–47

Bmp-4 acts as a morphogen in dorsoventral mesoderm patterning in Xenopus. Dosch R, et al. **Development** 1997 Jun;124(12):2325–34

Murine gastrulation requires HNF-4 regulated gene expression in the visceral endoderm: tetraploid rescue of Hnf-4(-/-) embryos. Duncan SA, et al. **Development** 1997 Jan;124(2):279–87

In vivo functional analysis of the Hoxa-1 3' retinoic acid response element (3'RARE). Dupé V, et al. **Development** 1997 Jan;124(2):399–410

Antagonizing cAMP-dependent protein kinase A in the dorsal CNS activates a conserved Sonic hedgehog signaling pathway. Epstein DJ, et al. **Development** 1996 Sep; 122(9):2885–94

Ftz-F1 is a cofactor in Ftz activation of the Drosophila engrailed gene. Florence B, et al. **Development** 1997 Feb; 124(4):839–47

Genes necessary for C. elegans cell and growth cone migrations. Forrester WC, et al. **Development** 1997 May; 124(9):1831–43

Drosophila Paired regulates late even-skipped expression through a composite binding site for the paired domain and the homeodomain. Fujioka M, et al. **Development** 1996 Sep;122(9):2697–707

Bone morphogenetic proteins (BMPs) as regulators of dorsal forebrain development. Furuta Y, et al. **Development** 1997 Jun;124(11):2203–12

EGF receptor signaling induces pointed P1 transcription and inactivates Yan protein in the Drosophila embryonic ventral ectoderm. Gabay L, et al. **Development** 1996 Nov; 122(11):3355–62

Identification of otx2 target genes and restrictions in ectodermal competence during Xenopus cement gland formation. Gammill LS, et al. **Development** 1997 Jan; 124(2):471–81

A conserved 90 nucleotide element mediates translational repression of nanos RNA. Gavis ER, et al. **Development** 1996 Sep;122(9):2791–800

Glial development in the Drosophila CNS requires concomitant activation of glial and repression of neuronal differentiation genes. Giesen K, et al. **Development** 1997 Jun;124(12):2307–16

The nuclear receptor SF-1 mediates sexually dimorphic expression of Mullerian Inhibiting Substance, in vivo. Giuili G, et al. **Development** 1997 May;124(9):1799–807

Analysis of Hoxd-13 and Hoxd-11 misexpression in chick limb buds reveals that Hox genes affect both bone condensation and growth. Goff DJ, et al. **Development** 1997 Feb;124(3):627–36

The Drosophila embryonic midline is the site of Spitz processing, and induces activation of the EGF receptor in the ventral ectoderm. Golembo M, et al. **Development** 1996 Nov;122(11):3363–70

Specification of the embryonic limb primordium by graded activity of Decapentaplegic. Goto S, et al. **Development** 1997 Jan;124(1):125–32

Genes controlling and mediating locomotion behavior of the zebrafish embryo and larva. Granato M, et al. **Development** 1996 Dec;123:399–413

Enhanced cardiogenesis in embryonic stem cells overexpressing the GATA-4 transcription factor. Grépin C, et al. **Development** 1997 Jun;124(12):2387–95

The chick limbless mutation causes abnormalities in limb bud dorsal-ventral patterning: implications for the mechanism of apical ridge formation. Grieshammer U, et al. **Development** 1996 Dec;122(12):3851–61

Skeletal morphogenesis in the sea urchin embryo: regulation of primary mesenchyme gene expression and skeletal rod growth by ectoderm-derived cues. Guss KA, et al. **Development** 1997 May;124(10):1899–908

dino and mercedes, two genes regulating dorsal development in the zebrafish embryo. Hammerschmidt M, et al. **Development** 1996 Dec;123:95–102

Mammary gland morphogenesis is inhibited in transgenic mice that overexpress cell surface beta1,4-galactosyltransferase. Hathaway HJ, et al. **Development** 1996 Sep;122(9):2859–72

Drosophila cubitus interruptus forms a negative feedback loop with patched and regulates expression of Hedgehog target genes. Hepker J, et al. **Development** 1997 Jan; 124(2):549–58

Sequence and embryonic expression of the amphioxus engrailed gene (AmphiEn): the metameric pattern of transcription resembles that of its segment-polarity homolog in Drosophila. Holland LZ, et al. **Development** 1997 May;124(9):1723–32

Sequence and developmental expression of AmphiDll, an amphioxus Distal-less gene transcribed in the ectoderm, epidermis and nervous system: insights into evolution of craniate forebrain and neural crest. Holland ND, et al. **Development** 1996 Sep;122(9):2911–20

A vegetally localized T-box transcription factor in Xenopus eggs specifies mesoderm and endoderm and is essential for embryonic mesoderm formation. Horb ME, et al. **Development** 1997 May;124(9):1689–98

Expression of Sonic hedgehog and its putative role as a precursor cell mitogen in the developing mouse retina. Jensen AM, et al. **Development** 1997 Jan;124(2):363–71

Ectopic expression of wingless in imaginal discs interferes with decapentaplegic expression and alters cell determination. Johnston LA, et al. **Development** 1996 Nov; 122(11):3519–29

Genetic evidence that the retinoid signal is transduced by heterodimeric RXR/RAR functional units during mouse development. Kastner P, et al. **Development** 1997 Jan; 124(2):313–26

A male-specific role for SOX9 in vertebrate sex determination. Kent J, et al. **Development** 1996 Sep; 122(9):2813–22

Proteoglycans are required for maintenance of Wnt-11 expression in the ureter tips. Kispert A, et al. **Development** 1996 Nov;122(11):3627–37

Two novel chick T-box genes related to mouse Brachyury are expressed in different, non-overlapping mesodermal domains during gastrulation. Knezevic V, et al. **Development** 1997 Jan;124(2):411–9

Limb deformity proteins: role in mesodermal induction of the apical ectodermal ridge. Kuhlman J, et al. **Development** 1997 Jan;124(1):133–9

Coordination of larval and prepupal gene expression by the DHR3 orphan receptor during Drosophila metamorphosis. Lam GT, et al. **Development** 1997 May;124(9):1757–69

Expression of constitutively active Notch arrests follicle cells at a precursor stage during Drosophila oogenesis and disrupts the anterior-posterior axis of the oocyte. Larkin MK, et al. **Development** 1996 Nov;122(11):3639–50

Compartments, wingless and engrailed: patterning the ventral epidermis of Drosophila embryos. Lawrence PA, et al. **Development** 1996 Dec;122(12):4095–103

Segregating expression domains of two goosecoid genes during the transition from gastrulation to neurulation in chick embryos. Lemaire L, et al. **Development** 1997 Apr; 124(8):1443–52

The role of Engrailed in establishing the dorsoventral axis of the chick limb. Logan C, et al. **Development** 1997 Jun; 124(12):2317–24

Left-right asymmetry of a nodal-related gene is regulated by dorsoanterior midline structures during Xenopus development. Lohr JL, et al. **Development** 1997 Apr; 124(8):1465–72

Ligand-bound RXR can mediate retinoid signal transduction during embryogenesis. Lu HC, et al. **Development** 1997 Jan; 124(1):195–203

GATA-2 and GATA-3 regulate trophoblast-specific gene expression in vivo. Ma GT, et al. **Development** 1997 Feb; 124(4):907–14

The Pax protein Noi is required for commissural axon pathway formation in the rostral forebrain. Macdonald R, et al. **Development** 1997 Jun;124(12):2397–408

The single MyoD family gene of Ciona intestinalis encodes two differentially expressed proteins: implications for the evolution of chordate muscle gene regulation. Meedel TH, et al. **Development** 1997 May;124(9):1711–21

Both the paired domain and homeodomain are required for in vivo function of Drosophila Paired. Miskiewicz P, et al. **Development** 1996 Sep;122(9):2709–18

Mouse Serrate-1 (Jagged-1): expression in the developing tooth is regulated by epithelial-mesenchymal interactions and fibroblast growth factor-4. Mitsiadis TA, et al. **Development** 1997 Apr;124(8):1473–83

The regulation of Krox-20 expression reveals important steps in the control of peripheral glial cell development. Murphy P, et al. **Development** 1996 Sep;122(9):2847–57

Long-range action of Wingless organizes the dorsal-ventral axis of the Drosophila wing. Neumann CJ, et al. **Development** 1997 Feb;124(4):871–80

A hierarchy of cross-regulation involving Notch, wingless, vestigial and cut organizes the dorsal/ventral axis of the Drosophila wing. Neumann CJ, et al. **Development** 1996 Nov;122(11):3477–85

Cell movements, neuronal organisation and gene expression in hindbrains lacking morphological boundaries. Nittenberg R, et al. **Development** 1997 Jun;124(12):2297–306

Spindlin, a major maternal transcript expressed in the mouse during the transition from oocyte to embryo. Oh B, et al. **Development** 1997 Jan;124(2):493–503

Melanocyte development in vivo and in neural crest cell cultures: crucial dependence on the Mitf basic-helix-loop-helix-zipper transcription factor. Opdecamp K, et al. **Development** 1997 Jun;124(12):2377–86

A new rhodopsin in R8 photoreceptors of Drosophila: evidence for coordinate expression with Rh3 in R7 cells. Papatsenko D, et al. **Development** 1997 May;124(9):1665–73

Regulation of Msx-1, Msx-2, Bmp-2 and Bmp-4 during foetal and postnatal mammary gland development. Phippard DJ, et al. **Development** 1996 Sep;122(9):2729–37

A nanos homolog in leech. Pilon M, et al. **Development** 1997 May;124(9):1771–80

eFGF, Xcad3 and Hox genes form a molecular pathway that establishes the anteroposterior axis in Xenopus. Pownall ME, et al. **Development** 1996 Dec;122(12):3881–92

Disruption of gastrulation and oral-aboral ectoderm differentiation in the Lytechinus pictus embryo by a dominant/negative PDGF receptor. Ramachandran RK, et al. **Development** 1997 Jun;124(12):2355–64

The distal limb environment regulates MyoD accumulation and muscle differentiation in mouse-chick chimaeric limbs. Robson LG, et al. **Development** 1996 Dec;122(12):3899–910

Evolution of the insect body plan as revealed by the Sex combs reduced expression pattern. Rogers BT, et al. **Development** 1997 Jan;124(1):149–57

Slug, a zinc finger gene previously implicated in the early patterning of the mesoderm and the neural crest, is also involved in chick limb development. Ros MA, et al. **Development** 1997 May;124(9):1821–9

Regulation of a dpp target gene in the Drosophila embryo. Rusch J, et al. **Development** 1997 Jan;124(2):303–11

The Dichaete gene of Drosophila melanogaster encodes a SOX-domain protein required for embryonic segmentation. Russell SR, et al. **Development** 1996 Nov;122(11):3669–76

MesP1: a novel basic helix-loop-helix protein expressed in the nascent mesodermal cells during mouse gastrulation. Saga Y, et al. **Development** 1996 Sep;122(9):2769–78

Genetic control of epithelial tube fusion during Drosophila tracheal development. Samakovlis C, et al. **Development** 1996 Nov;122(11):3531–6

A binding site for Gli proteins is essential for HNF-3beta floor plate enhancer activity in transgenics and can respond to Shh in vitro. Sasaki H, et al. **Development** 1997 Apr; 124(7):1313–22

beta3-tubulin is directly repressed by the engrailed protein in Drosophila. Serrano N, et al. **Development** 1997 Jul; 124(13):2527–36

Notch signaling inhibits muscle cell differentiation through a CBF1-independent pathway. Shawber C, et al. **Development** 1996 Dec;122(12):3765–73

A differential display strategy identifies Cryptic, a novel EGF-related gene expressed in the axial and lateral mesoderm during mouse gastrulation. Shen MM, et al. **Development** 1997 Jan;124(2):429–42

Ectopic eye development in Drosophila induced by directed dachshund expression. Shen W, et al. **Development** 1997 Jan;124(1):45–52

Drosophila brachyenteron regulates gene activity and morphogenesis in the gut. Singer JB, et al. **Development** 1996 Dec;122(12):3707–18

Mutations affecting cell fates and cellular rearrangements during gastrulation in zebrafish. Solnica-Krezel L, et al. **Development** 1996 Dec;123:67–80

Mutations affecting development of the notochord in zebrafish. Stemple DL, et al. **Development** 1996 Dec; 123:117–28

The Xenopus T-box gene, Antipodean, encodes a vegetally localised maternal mRNA and can trigger mesoderm formation. Stennard F, et al. **Development** 1996 Dec; 122(12):4179–88

The spalt gene links the A/P compartment boundary to a linear adult structure in the Drosophila wing. Sturtevant MA, et al. **Development** 1997 Jan;124(1):21–32

VP16-activation of the C. elegans neural specification transcription factor UNC-86 suppresses mutations in downstream genes and causes defects in neural migration and axon outgrowth. Sze JY, et al. **Development** 1997 Mar; 124(6):1159–68

Analysis of competence and of Brachyury autoinduction by use of hormone-inducible Xbra. Tada M, et al. **Development** 1997 Jun;124(11):2225–34

Cadherin-mediated cell adhesion and cell motility in Drosophila trachea regulated by the transcription factor Escargot. Tanaka-Matakatsu M, et al. **Development** 1996 Dec;122(12):3697–705

The human beta-globin locus control region confers an early embryonic erythroid-specific expression pattern to a basic promoter driving the bacterial lacZ gene. Tewari R, et al. **Development** 1996 Dec;122(12):3991–9

Developmental territories created by mutual antagonism between Wingless and Decapentaplegic. Theisen H, et al. **Development** 1996 Dec;122(12):3939–48

Analysis of growth factor and receptor mRNA levels during development of the rat seminal vesicle and prostate. Thomson AA, et al. **Development** 1997 Jun;124(12):2431–9

The Drosophila TGF alpha homolog Spitz acts in photoreceptor recruitment in the developing retina. Tio M, et al. **Development** 1997 Jan;124(2):343–51

Cell fate in the chick limb bud and relationship to gene expression. Vargesson N, et al. **Development** 1997 May; 124(10):1909–18

Bax promotes neuronal cell death and is downregulated during the development of the nervous system. Vekrellis K, et al. **Development** 1997 Mar;124(6):1239–49

Identification of a novel cardiac-specific transcript critical for cardiac myocyte differentiation. Wei Y, et al. **Development** 1996 Sep;122(9):2779–89

Multiple signaling events specify ectoderm and pattern the oral-aboral axis in the sea urchin embryo. Wikramanayake

AH, et al. **Development** 1997 Jan;124(1):13–20
buttonhead does not contribute to a combinatorial code proposed for Drosophila head development. Wimmer EA, et al. **Development** 1997 Apr;124(8):1509–17
XIPOU 2 is a potential regulator of Spemann's Organizer. Witta SE, et al. **Development** 1997 Mar;124(6):1179–89
Mouse Eya homologues of the Drosophila eyes absent gene require Pax6 for expression in lens and nasal placode. Xu PX, et al. **Development** 1997 Jan;124(1):219–31
Quantitative functional interrelations within the cis-regulatory system of the S. purpuratus Endo16 gene. Yuh CH, et al. **Development** 1996 Dec;122(12):4045–56
Differential expression of mammalian Numb, Numblike and Notch1 suggests distinct roles during mouse cortical neurogenesis. Zhong W, et al. **Development** 1997 May; 124(10):1887–97
Chicken Pax-1 gene: structure and expression during embryonic somite development. Barnes GL, et al. **Differentiation** 1996 Oct;61(1):13–23
Distribution of nestin in the developing mouse limb bud in vivo and in micro-mass cultures of cells isolated from limb buds. Wroblewski J, et al. **Differentiation** 1997 Feb; 61(3):151–9
Closely related genes encode developmental and tissue isoforms of porcine cytochrome P450 aromatase. Choi I, et al. **DNA Cell Biol** 1997 Jun;16(6):769–77
The zebrafish BMP4 gene: sequence analysis and expression pattern during embryonic development. Hwang SP, et al. **DNA Cell Biol** 1997 Aug;16(8):1003–11
Cloning of m-ehk2 from the murine inner ear, an eph family receptor tyrosine kinase expressed in the developing and adult cochlea. Lee AM, et al. **DNA Cell Biol** 1996 Oct; 15(10):817–25
H3.3A variant histone mRNA containing an alpha-globin insertion: modulated expression during mouse gametogenesis correlates with meiotic onset. López-Alánón DM, et al. **DNA Cell Biol** 1997 May; 16(5):639–44
Molecular cloning of Elk-3, a new member of the Ets family expressed during mouse embryogenesis and analysis of its transcriptional repression activity. Nozaki M, et al. **DNA Cell Biol** 1996 Oct;15(10):855–62
The novel human HNF-3/fork head-like 5 gene: chromosomal localization and expression pattern. Wiese S, et al. **DNA Cell Biol** 1997 Feb;16(2):165–71
An abundant zebrafish cDNA clone encodes a ras-like protein which is expressed ubiquitously. Liao J, et al. **DNA Seq** 1997;7(5):313–7
Identification of developmentally regulated sea urchin U5 snRNA genes. Morales J, et al. **DNA Seq** 1997;7(5):243–59
Somatotroph function in the neonatal pig. Matteri RL, et al. **Domest Anim Endocrinol** 1997 Jul;14(4):241–9
The c-ets1 protooncogene is expressed in human trophoblast during the first trimester of pregnancy. Luton D, et al. **Early Hum Dev** 1997 Jan 20;47(2):147–56
Changes in protein expression during neural development analyzed by two-dimensional gel electrophoresis. Geschwind DH, et al. **Electrophoresis** 1996 Nov; 17(11):1677–82 (53 ref.)
hairy mediates dominant repression in the Drosophila embryo. Barolo S, et al. **EMBO J** 1997 May 15; 16(10):2883–91
Multiple interactions amongst floral homeotic MADS box proteins. Davies B, et al. **EMBO J** 1996 Aug 15; 15(16):4330–43
PAX8-mediated activation of the wt1 tumor suppressor gene. Dehbi M, et al. **EMBO J** 1996 Aug 15;15(16):4297–306
Function of the Evx-2 gene in the morphogenesis of vertebrate limbs. Hérault Y, et al. **EMBO J** 1996 Dec 2; 15(23):6727–38
Transcriptional regulation in endoderm development: characterization of an enhancer controlling Hnf3g expression by transgenesis and targeted mutagenesis. Hiemisch H, et al. **EMBO J** 1997 Jul 1;16(13):3995–4006
Thyroid hormone-dependent transcriptional repression of neural cell adhesion molecule during brain maturation. Iglesias T, et al. **EMBO J** 1996 Aug 15;15(16):4307–16
Antagonistic actions of activin A and BMP-2/4 control dorsal lip-specific activation of the early response gene XFD-1' in Xenopus laevis embryos. Kaufmann E, et al. **EMBO J** 1996 Dec 2;15(23):6739–49
Mechanism and Bicoid-dependent control of hairy stripe 7 expression in the posterior region of the Drosophila embryo. La Rosée A, et al. **EMBO J** 1997 Jul 16; 16(14):4403–11
Expression of MHC class II molecules in different cellular and functional compartments is controlled by differential usage of multiple promoters of the transactivator CIITA. Muhlethaler-Mottet A, et al. **EMBO J** 1997 May 15; 16(10):2851–60
Uncoupling of transcription and translation during zygotic gene activation in the mouse. Nothias JY, et al. **EMBO J** 1996 Oct 15;15(20):5715–25
p300 is required for MyoD-dependent cell cycle arrest and muscle-specific gene transcription. Puri PL, et al. **EMBO J** 1997 Jan 15;16(2):369–83
Conversion of ectoderm into a neural fate by ATH-3, a vertebrate basic helix-loop-helix gene homologous to Drosophila proneural gene atonal. Takebayashi K, et al. **EMBO J** 1997 Jan 15;16(2):384–95
The conserved mitotic kinase polo is regulated by phosphorylation and has preferred microtubule-associated substrates in Drosophila embryo extracts. Tavares AA, et al. **EMBO J** 1996 Sep 16;15(18):4873–83
TTF-2, a new forkhead protein, shows a temporal expression in the developing thyroid which is consistent with a role in controlling the onset of differentiation. Zannini M, et al. **EMBO J** 1997 Jun 2;16(11):3185–97
Functional maturation of the primate fetal adrenal in vivo. II. Ontogeny of corticosteroid synthesis is dependent upon specific zonal expression of 3 beta-hydroxysteroid dehydrogenase/isomerase. Coulter CL, et al. **Endocrinology** 1996 Nov;137(11):4953–9
Developmental expression of proprotein-processing endoprotease furin in rat pancreatic islets. Kayo T, et al. **Endocrinology** 1996 Nov;137(11):5126–34
Ontogenic changes in the expression of cytochrome c oxidase subunit I gene in the cerebellar cortex of the perinatal hypothyroid rat. Koibuchi N, et al. **Endocrinology** 1996 Nov;137(11):5096–108
Parathyroid hormone-related peptide delays terminal differentiation of chondrocytes during endochondral bone development. Lee K, et al. **Endocrinology** 1996 Nov; 137(11):5109–18
Cloning and characterization of the vitamin D receptor from Xenopus laevis. Li YC, et al. **Endocrinology** 1997 Jun; 138(6):2347–53
Localization of cellular retinoic acid-binding protein (CRABP) II and CRABP in developing rat testis. Zheng WL, et al. **Endocrinology** 1996 Nov;137(11):5028–35
Expressions of a calcium-binding protein (spot35/calbindin-D28K) in mouse olfactory cells: possible relationship to neuronal differentiation. Fujiwara M, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):105–9
Role of leukemia inhibitory factor during mammalian development. Shellard J, et al. **Eur Cytokine Netw** 1996 Dec;7(4):699–712 (69 ref.)
Up-regulation of an adult cuticular gene by 20-hydroxyecdysone in insect metamorphosing epidermis cultured in vitro. Braquart C, et al. **Eur J Biochem** 1996 Sep 1;240(2):336–41
Identification of differentially expressed genes during hepatocytes development and characterization of their prenatal hormonal induction. Cohen H, et al. **Eur J Biochem** 1996 Dec 15;242(3):550–6
Coordinate expression of splice variants of the murine pregnancy-specific glycoprotein (PSG) gene family during placental development. Kromer B, et al. **Eur J Biochem** 1996 Dec 1;242(2):280–7
Expression of CYP3A in the human liver—evidence that the shift between CYP3A7 and CYP3A4 occurs immediately after birth. Lacroix D, et al. **Eur J Biochem** 1997 Jul 15; 247(2):625–34
Butyrate enhances major histocompatibility complex class I, HLA-DR and ICAM-1 antigen expression on differentiated human intestinal epithelial cells. Siavoshian S, et al. **Eur J Clin Invest** 1996 Sep;26(9):803–10
Avian Ikaros gene is expressed early in embryogenesis. Liippo J, et al. **Eur J Immunol** 1997 Aug;27(8):1853–7
A comparative review of the sites of histoenzymatic dephosphorylating activities and of gene expression in developing limb buds of mammalian and avian species. Milaire J. **Eur J Morphol** 1997 Jul;35(3):143–69 (193 ref.)
Timing and regulation of trkB and BDNF mRNA expression in placode-derived sensory neurons and their targets. Robinson M, et al. **Eur J Neurosci** 1996 Nov;8(11):2399–406
Reelin mRNA expression during mouse brain development. Schiffmann SN, et al. **Eur J Neurosci** 1997 May; 9(5):1055–71
The G-protein gamma-subunit G gamma 8 is expressed in the developing axons of olfactory and vomeronasal neurons. Tirindelli R, et al. **Eur J Neurosci** 1996 Nov; 8(11):2388–98
Endoderm-specific gene expression in embryonic stem cells differentiated to embryoid bodies. Abe K, et al. **Exp Cell Res** 1996 Nov 25;229(1):27–34
Induction of erythroid gene expression by microcell fusion. Kanamori H, et al. **Exp Cell Res** 1997 Apr 10;232(1):90–6
Expression of OCI-5/glypican 3 during intestinal morphogenesis: regulation by cell shape in intestinal epithelial cells. Li M, et al. **Exp Cell Res** 1997 Aug 25; 235(1):3–12
Schistosoma mansoni: the developmental regulation and immunolocalization of antioxidant enzymes. Mei H, et al. **Exp Parasitol** 1997 May;86(1):69–78
Apoptosis in Xenopus tadpole tail muscles involves Bax-dependent pathways. Sachs LM, et al. **FASEB J** 1997 Aug;11(10):801–8
Retinoic aid increases arrestin mRNA levels in the mouse retina. Wagner E, et al. **FASEB J** 1997 Mar;11(4):271–5
Functional characterization of the trout insulin promoter: implications for fish as a favorable model of pancreas development. Argenton F, et al. **FEBS Lett** 1997 Apr 28; 407(2):191–6
Thymosin beta10 mRNA expression during early postimplantation mouse development. Carpintero P, et al. **FEBS Lett** 1996 Sep 23;394(1):103–6
The cytosolic aldehyde dehydrogenase gene (Aldh1) is developmentally expressed in Leydig cells. López-Fernández LA, et al. **FEBS Lett** 1997 Apr 28; 407(2):225–9
Co-ordinated downregulation of bcl-2 and bax expression during granulocytic and macrophage-like differentiation of the HL60 promyelocytic leukaemia cell line. Mengubas K, et al. **FEBS Lett** 1996 Oct 7;394(3):356–60
Tissue-specific alternative splicing of mouse brain type ryanodine receptor/calcium release channel mRNA. Miyatake R, et al. **FEBS Lett** 1996 Oct 21;395(2–3):123–6
Mouse cathepsin K: cDNA cloning and predominant expression of the gene in osteoclasts, and in some hypertrophying chondrocytes during mouse development. Rantakokko J, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):307–13
Isolation of cDNA clones encoding DNA methyltransferase of sea urchin P. lividus: expression during embryonic development. Aniello F, et al. **Gene** 1996 Oct 31; 178(1–2):57–61
Characterization of a tumor-associated gene, a member of a novel family of genes encoding membrane glycoproteins. Ben-Porath I, et al. **Gene** 1996 Dec 12;183(1–2):69–75
Cloning and developmental expression of Xenopus cDNAs encoding the Enhancer of split groucho and related proteins. Choudhury BK, et al. **Gene** 1997 Aug 11; 195(1):41–8
Tissue, temporal and inducible expression pattern of haptoglobin in mice. D'Armiento J, et al. **Gene** 1997 Aug 11;195(1):19–27
A Drosophila gene regulated by rough and glass shows similarity to ena and VASP. DeMille MM, et al. **Gene** 1996 Dec 12;183(1–2):103–8
Sequence and expression analysis of a Xenopus laevis cDNA which encodes a homologue of mammalian 14-3-3 zeta protein. Kousteni S, et al. **Gene** 1997 May 6;190(2):279–85
A processed homeobox gene expressed in a stage-, tissue- and region-specific manner in epididymis. Nhim RP, et al. **Gene** 1997 Feb 7;185(2):271–6
The ovine SOX2 gene: sequence, chromosomal localization and gonadal expression. Payen E, et al. **Gene** 1997 Apr 11;189(1):143–7
Two ras genes in Dictyostelium minutum show high sequence homology, but different developmental regulation from Dictyostelium discoideum rasD and rasG genes. van Es S, et al. **Gene** 1997 Mar 10;187(1):93–7
Cloning of the cDNA encoding rat homologue of the mismatch repair gene MSH2 and its expression during spermatogenesis. Vani RG, et al. **Gene** 1997 Jan 31; 185(1):19–26
Antisense transcription of a murine FGFR-3 psuedogene during fetal developement. Weil D, et al. **Gene** 1997 Mar 10;187(1):115–22
Cloning of the cDNA coding for rat brain CMP-NeuAc:GD3 alpha2-8 sialyltransferase. Zeng G, et al. **Gene** 1997 Mar 10;187(1):131–4
Developmental regulation of the vertebrate globin multigene family. Baron MH. **Gene Expr** 1996;6(3):129–37 (69 ref.)
Specification of posterior midbrain region in zebrafish neuroepithelium. Miyagawa T, et al. **Genes Cells** 1996 Apr; 1(4):369–77
Mesodermal- vs. neuronal-specific expression of MafK is elicited by different promoters. Motohashi H, et al. **Genes Cells** 1996 Feb;1(2):223–38
Identification of putative downstream genes of Oct-3, a pluripotent cell-specific transcription factor. Saijoh Y, et al. **Genes Cells** 1996 Feb;1(2):239–52
Proto-oncogene of int-3, a mouse Notch homologue, is expressed in endothelial cells during early embryogenesis. Shirayoshi Y, et al. **Genes Cells** 1997 Mar;2(3):213–24
Role of the Drosophila EGF receptor in determination of the dorsoventral domains of escargot expression during primary neurogenesis. Yagi Y, et al. **Genes Cells** 1997 Jan; 2(1):41–53
Segmentation and specification of the Drosophila mesoderm. Azpiazu N, et al. **Genes Dev** 1996 Dec 15;10(24):3183–94
Mice lacking the ski proto-oncogene have defects in neurulation, craniofacial, patterning, and skeletal muscle development. Berk M, et al. **Genes Dev** 1997 Aug 15; 11(16):2029–39
A beta-catenin/XTcf-3 complex binds to the siamois promoter to regulate dorsal axis specification in Xenopus. Brannon M, et al. **Genes Dev** 1997 Sep 15;11(18):2359–70
The Pax2 homolog sparkling is required for development of cone and pigment cells in the Drosophila eye [see comments] Fu W, et al. **Genes Dev** 1997 Aug 15; 11(16):2066–78. Comment in: Genes Dev 1997 Aug 15;11(16):2023–8.
Autonomous and nonautonomous regulation of axis formation by antagonistic signaling via 7-span cAMP receptors and GSK3 in Dictyostelium. Ginsburg GT, et al. **Genes Dev** 1997 Aug 15;11(16):2112–23
Coupling of Jun amino-terminal kinase and Decapentaplegic signaling pathways in Drosophila morphogenesis. Glise B, et al. **Genes Dev** 1997 Jul 1;11(13):1738–47
araucan and caupolican provide a link between compartment subdivisions and patterning of sensory organs and veins in the Drosophila wing. Gómez-Skarmeta JL, et al. **Genes Dev** 1996 Nov 15;10(22):2935–45
Positive cross-regulation and enhancer sharing: two mechanisms for specifying overlapping Hox expression patterns. Gould A, et al. **Genes Dev** 1997 Apr 1; 11(7):900–13
Fab-7 functions as a chromatin domain boundary to ensure proper segment specification by the Drosophila bithorax complex. Hagstrom K, et al. **Genes Dev** 1996 Dec 15; 10(24):3202–15
Drosophila Jun relays the Jun amino-terminal kinase signal transduction pathway to the Decapentaplegic signal

transduction pathway in regulating epithelial cell sheet movement. Hou XS, et al. **Genes Dev** 1997 Jul 1; 11(13):1728–37

The mesenchymal winged helix transcription factor Fkh6 is required for the control of gastrointestinal proliferation and differentiation. Kaestner KH, et al. **Genes Dev** 1997 Jun 15;11(12):1583–95

Jun in Drosophila development: redundant and nonredundant functions and regulation by two MAPK signal transduction pathways. Kockel L, et al. **Genes Dev** 1997 Jul 1; 11(13):1748–58

Transcription factors in eye development: a gorgeous mosaic? [comment] Kumar J, et al. **Genes Dev** 1997 Aug 15; 11(16):2023–8 (47 ref.). Comment on: Genes Dev 1997 Aug 15;11(16):2066–73.

Cross-regulation in the mouse HoxB complex: the expression of Hoxb2 in rhombomere 4 is regulated by Hoxb1. Maconochie MK, et al. **Genes Dev** 1997 Jul 15; 11(14):1885–95

Distinct roles for P-CREB and LEF-1 in TCR alpha enhancer assembly and activation on chromatin templates in vitro. Mayall TP, et al. **Genes Dev** 1997 Apr 1; 11(7):887–99

Drosophila Jun kinase regulates expression of decapentaplegic via the ETS-domain protein Aop and the AP-1 transcription factor DJun during dorsal closure. Riesgo-Escovar JR, et al. **Genes Dev** 1997 Jul 1; 11(13):1717–27

Genetic analysis reveals that PAX6 is required for normal transcription of pancreatic hormone genes and islet development. Sander M, et al. **Genes Dev** 1997 Jul 1; 11(13):1662–73

Brca2 is required for embryonic cellular proliferation in the mouse. Suzuki A, et al. **Genes Dev** 1997 May 15; 11(10):1242–52

The role of EKLF in human beta-globin gene competition. Wijgerde M, et al. **Genes Dev** 1996 Nov 15;10(22):2894–902

Interactions among genes regulating ovule development in Arabidopsis thaliana. Baker SC, et al. **Genetics** 1997 Apr; 145(4):1109–24

The nuclear protein encoded by the Drosophila neurogenic gene mastermind is widely expressed and associates with specific chromosomal regions. Bettler D, et al. **Genetics** 1996 Jun;143(2):859–75

Interactions of Drosophila Ultrabithorax regulatory regions with native and foreign promoters. Casares F, et al. **Genetics** 1997 Jan;145(1):123–37

Mechanism of activation of the Caenorhabditis elegans ras homologue let-60 by a novel, temperature-sensitive, gain-of-function mutation. Eisenmann DM, et al. **Genetics** 1997 Jun;146(2):553–65

oroshigane, a new segment polarity gene of Drosophila melanogaster, functions in hedgehog signal transduction. Epps JL, et al. **Genetics** 1997 Apr;145(4):1041–52

The alcohol dehydrogenase gene is nested in the outspread locus of Drosophila melanogaster. McNabb S, et al. **Genetics** 1996 Jun;143(2):897–911

Aspergillus fabM encodes an essential product that is related to poly(A)-binding proteins and activates development when overexpressed. Marhoul JF, et al. **Genetics** 1996 Dec; 144(4):1463–70

Extragenic suppressors of the Arabidopsis det1 mutant identify elements of flowering-time and light-response regulatory pathways. Pepper AE, et al. **Genetics** 1997 Apr; 145(4):1125–37

A transgene-induced mitotic arrest mutation in the mouse allelic with Oligosyndactylism. Pravtcheva DD, et al. **Genetics** 1996 Dec;144(4):1747–56

Characterization of maternal and zygotic D-raf proteins: dominant negative effects on Torso signal transduction. Radke K, et al. **Genetics** 1997 Jan;145(1):163–71

Formation of the Drosophila ovarian ring canal inner rim depends on cheerio. Robinson DN, et al. **Genetics** 1997 Apr;145(4):1063–72

Differential activity of Ras1 during patterning of the Drosophila dorsoventral axis. Schnorr JD, et al. **Genetics** 1996 Dec;144(4):1545–57

Drosophila syntaxin is required for cell viability and may function in membrane formation and stabilization. Schulze KL, et al. **Genetics** 1996 Dec;144(4):1713–24

Embryonic expression and evolution of duplicated E-protein genes in Xenopus laevis: parallels with ancestral E-protein genes. Shain DH, et al. **Genetics** 1997 May;146(1):345–53

Germline transformation using a prune cDNA rescues prune/killer of prune lethality and the prune eye color phenotype in Drosophila. Timmons L, et al. **Genetics** 1996 Dec;144(4):1589–600

The location of genes governing long first internode of corn. Troyer AF. **Genetics** 1997 Apr;145(4):1149–54

Distinct expression patterns detected within individual tissues by the GAL4 enhancer trap technique. Gustafson K, et al. **Genome** 1996 Feb;39(1):174–82

cDNA cloning and characterization of Npap60: a novel rat nuclear pore-associated protein with an unusual subcellular localization during male germ cell differentiation. Fan F, et al. **Genomics** 1997 Mar 15;40(3):444–53

Characterization and comparison of the human and mouse Dist1/alpha-globin complex reveals a tightly packed multiple gene cluster containing differentially expressed transcription units. Kielman MF, et al. **Genomics** 1996 Mar 15;32(3):341–51

cDNA cloning, expression analysis, and mapping of the mouse Nedd4 gene. Kumar S, et al. **Genomics** 1997 Mar 15;40(3):435–43

The chromosomal mapping of four genes encoding winged helix proteins expressed early in mouse development. Labosky PA, et al. **Genomics** 1996 Jun 1;34(2):241–5

Structure, chromosomal localization, and expression analysis of the mouse inhibin/activin beta C (Inhbc) gene. Schmitt J, et al. **Genomics** 1996 Mar 15;32(3):358–66

Developmental regulation of alpha 1,3-fucosyltransferase expression in CD34 positive progenitors and maturing myeloid cells isolated from normal human bone marrow. Le Marer N, et al. **Glycobiology** 1997 Apr;7(3):357–65

The expression of fetuin in the development and maturation of the hemopoietic and immune systems. Dziegielewska K, et al. **Histochem Cell Biol** 1996 Sep;106(3):319–30

Expression of the acatalytic carbonic anhydrase VIII gene, Car8, during mouse embryonic development. Lakkis MM, et al. **Histochem J** 1997 Feb;29(2):135–41

Characterization of the split hand/split foot malformation locus SHFM1 at 7q21.3-q22.1 and analysis of a candidate gene for its expression during limb development. Crackower MA, et al. **Hum Mol Genet** 1996 May; 5(5):571–9

Sequence analysis, identification of evolutionary conserved motifs and expression analysis of murine tcof1 provide further evidence for a potential function for the gene and its human homologue, TCOF1. Dixon J, et al. **Hum Mol Genet** 1997 May;6(5):727–37

Pituitary homeobox 2, a novel member of the bicoid-related family of homeobox genes, is a potential regulator of anterior structure formation. Gage PJ, et al. **Hum Mol Genet** 1997 Mar;6(3):457–64

Characterisation of expression of mDMAHP, a homeodomain-encoding gene at the murine DM locus. Heath SK, et al. **Hum Mol Genet** 1997 May;6(5):651–7

A novel human homologue of yeast nucleosome assembly protein, 65 kb centromeric to the p57KIP2 gene, is biallelically expressed in fetal and adult tissues. Hu RJ, et al. **Hum Mol Genet** 1996 Nov;5(11):1743–8

SOX22 is a new member of the SOX gene family, mainly expressed in human nervous tissue. Jay P, et al. **Hum Mol Genet** 1997 Jul;6(7):1069–77

Human PEG1/MEST, an imprinted gene on chromosome 7. Kobayashi S, et al. **Hum Mol Genet** 1997 May;6(5):781–6

Developmental expression of the mouse mottled and toxic milk genes suggests distinct functions for the Menkes and Wilson disease copper transporters. Kuo YM, et al. **Hum Mol Genet** 1997 Jul;6(7):1043–9

Full genetic rescue of adenosine deaminase-deficient mice through introduction of the human gene. Migchielsen AA, et al. **Hum Mol Genet** 1996 Oct;5(10):1523–32

Expression of the von Hippel-Lindau disease tumour suppressor gene during human embryogenesis. Richards FM, et al. **Hum Mol Genet** 1996 May;5(5):639–44

Expression of the dystrophin isoform Dp71 in differentiating human fetal myogenic cultures. Tennyson CN, et al. **Hum Mol Genet** 1996 Oct;5(10):1559–66

CD22 is both a positive and negative regulator of B lymphocyte antigen receptor signal transduction: altered signaling in CD22-deficient mice. Sato S, et al. **Immunity** 1996 Dec;5(6):551–62

Corepression of RelA and c-rel inhibits immunoglobulin kappa gene transcription and rearrangement in precursor B lymphocytes. Scherer DC, et al. **Immunity** 1996 Dec; 5(6):563–74

Sequence and transcription of Qa-2-encoding genes in mouse lymphocytes and blastocysts. Cai W, et al. **Immunogenetics** 1996;45(2):97–107

Stem cell antigen 2 expression in adult and developing mice. Antica M, et al. **Immunol Lett** 1997 Jan;55(1):47–51

Analysis of WT1 gene expression during mouse nephrogenesis in organ culture. Yeger H, et al. **In Vitro Cell Dev Biol Anim** 1996 Sep;32(8):496–504

Identification, characterization, and developmental regulation of Chlamydia trachomatis 3-deoxy-D-manno-octulosonate (KDO)-8-phosphate synthetase and CMP-KDO synthetase. Wylie JL, et al. **Infect Immun** 1997 Apr;65(4):1527–30

Developmental analysis of a female-specific 16S rRNA gene from mycetome-associated endosymbionts of a mealybug, Planococcus lilacinus. Kantheti P, et al. **Insect Biochem Mol Biol** 1996 Dec;26(10):997–1009

Genes expressed during the differentiation of the pupal wings are also transiently expressed during the larval moult in Bombyx mori. Chareyre P, et al. **Insect Mol Biol** 1993; 2(4):239–46

Stage-specific expression of mouse BST-1/BP-3 on the early B and T cell progenitors prior to gene rearrangement of antigen receptor. Ishihara K, et al. **Int Immunol** 1996 Sep; 8(9):1395–404

Developmental control of antigen-induced thymic transcription factors. Simon AK, et al. **Int Immunol** 1996 Sep;8(9):1421–8

Does the chaperone heat shock protein hsp70 play a role in the control of developmental processes? Angelier N, et al. **Int J Dev Biol** 1996 Jun;40(3):521–9

Analysis of parent-specific gene expression in early mouse embryos and embryonic stem cells using high-resolution two-dimensional electrophoresis of proteins. Bowden L, et al. **Int J Dev Biol** 1996 Apr;40(2):499–506

Expression of the transcription factor slug correlates with growth of the limb bud and is regulated by FGF-4 and retinoic acid. Buxton PG, et al. **Int J Dev Biol** 1997 Aug; 41(4):559–68

Organization and expression of the developmentally regulated H1(o) histone gene in vertebrates. Doenecke D, et al. **Int J Dev Biol** 1996 Feb;40(1):395–401 (87 ref.)

Stage-specific gene expression during rat spermatogenesis: application of the mRNA differential display method. Geisinger A, et al. **Int J Dev Biol** 1996 Feb;40(1):385–8

Role of the retinoic acid receptor beta (RARbeta) during mouse development. Ghyselinck NB, et al. **Int J Dev Biol** 1997 Jun;41(3):425–47

Developmental regulation of a vertebrate homologue of the Drosophila dlg tumor suppressor gene. Gorry P, et al. **Int J Dev Biol** 1996;Suppl 1:295S–296S

Tumor suppressor genes as negative growth regulators in development and differentiation. Gutmann DH. **Int J Dev Biol** 1995 Dec;39(6):895–908 (100 ref.)

Analysis of gene expression in the developing ovary and testis of the chick embryo. Haines L, et al. **Int J Dev Biol** 1996; Suppl 1:99S–100S

Parathyroid hormone related peptide mRNA expression during murine postimplantation development: evidence for involvement in multiple differentiation processes. Karperien M, et al. **Int J Dev Biol** 1996 Jun;40(3):599–608

Whole-mount in situ hybridization reveals the expression of the Xl-Fli gene in several lineages of migrating cells in Xenopus embryos. Meyer D, et al. **Int J Dev Biol** 1995 Dec;39(6):909–19

Ets-1 and Ets-2 proto-oncogenes exhibit differential and restricted expression patterns during Xenopus laevis oogenesis and embryogenesis. Meyer D, et al. **Int J Dev Biol** 1997 Aug;41(4):607–20

Stage and developmental specific gene expression during mammalian spermatogenesis. Nayernia K, et al. **Int J Dev Biol** 1996 Feb;40(1):379–83 (48 ref.)

An mRNA differential display strategy for cloning genes expressed during mouse gonad development. Nordqvist K, et al. **Int J Dev Biol** 1997 Aug;41(4):627–38

Characterization of ovine SRY transcript and developmental expression of genes involved in sexual differentiation. Payen E, et al. **Int J Dev Biol** 1996 Jun;40(3):567–75

Crescent, a novel chick gene encoding a Frizzled-like cysteine-rich domain, is expressed in anterior regions during early embryogenesis. Pfeffer PL, et al. **Int J Dev Biol** 1997 Jun;41(3):449–58

Overexpression of the Xenopus Xl-fli gene during early embryogenesis leads to anomalies in head and heart development and erythroid differentiation. Remy P, et al. **Int J Dev Biol** 1996 Jun;40(3):577–89

Differential expression of BMP receptors in early mouse development. Roelen BA, et al. **Int J Dev Biol** 1997 Aug; 41(4):541–9

Structure and developmental expression of mouse Garp, a gene encoding a new leucine-rich repeat-containing protein. Roubin R, et al. **Int J Dev Biol** 1996 Jun; 40(3):545–55

Expression of the surface antigen A2B7 in adult and developing honeybee olfactory pathway. Gascuel J, et al. **Int J Dev Neurosci** 1996 Nov;14(7–8):997–1011

Expression of neu and Neu differentiation factor in the olfactory mucosa of rat. Salehi-Ashtiani K, et al. **Int J Dev Neurosci** 1996 Nov;14(7–8):801–11

LacZ and OMP are co-expressed during ontogeny and regeneration in olfactory receptor neurons of OMP promoter-lacZ transgenic mice. Walters E, et al. **Int J Dev Neurosci** 1996 Nov;14(7–8):813–22

Distribution and functions of platelet-derived growth factors and their receptors during embryogenesis. Ataliotis P, et al. **Int Rev Cytol** 1997;172:95–127 (155 ref.)

Type XVII collagen (BP 180) in the developing avian cornea. Gordon MK, et al. **Invest Ophthalmol Vis Sci** 1997 Jan; 38(1):153–66

Differential expression of alpha A- and alpha B-crystallin during murine ocular development. Robinson ML, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2276–84

Expression of transforming growth factor alpha (TGF-alpha) gene in mouse embryonic development. Harada T, et al. **J Assist Reprod Genet** 1997 May;14(5):262–9

Expression of syndecan-1 and -3 during embryogenesis of the central nervous system in relation to binding with midkine. Nakanishi T, et al. **J Biochem (Tokyo)** 1997 Feb; 121(2):197–205

A survey of genes expressed in mouse embryonal carcinoma F9 cells: characterization of expressed sequence tags matching no known genes. Nomura M, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):129–47

gRICH68 and gRICH70 are 2',3'-cyclic-nucleotide 3'-phosphodiesterases induced during goldfish optic nerve regeneration. Ballestero RP, et al. **J Biol Chem** 1997 Apr 25;272(17):11479–86

The Caenorhabditis elegans p21-activated kinase (CePAK) colocalizes with CeRac1 and CDC42Ce at hypodermal cell boundaries during embryo elongation. Chen W, et al. **J Biol Chem** 1996 Oct 18;271(42):26362–8

Expression of mixed lineage kinase-1 in pancreatic beta-cell lines at different stages of maturation and during embryonic pancreas development. DeAizpurua HJ, et al. **J Biol Chem** 1997 Jun 27;272(26):16364–73

Thyroid hormone-dependent gene expression program for Xenopus neural development. Denver RJ, et al. **J Biol Chem** 1997 Mar 28;272(13):8179–88

Developmental changes in hemocyanin expression in the

Dungeness crab, Cancer magister. Durstewitz G, et al. **J Biol Chem** 1997 Feb 14;272(7):4347–50

Distinct troponin T genes are expressed in embryonic/larval tail striated muscle and adult body wall smooth muscle of ascidian. Endo T, et al. **J Biol Chem** 1996 Nov 1; 271(44):27855–62

The phosphorylation state of translation initiation factors is regulated developmentally and following heat shock in wheat. Gallie DR, et al. **J Biol Chem** 1997 Jan 10; 272(2):1046–53

The basic helix–loop–helix–zipper transcription factor USF1 regulates expression of the surfactant protein–A gene. Gao E, et al. **J Biol Chem** 1997 Sep 12;272(37):23398–406

Pax–6 and alphaB–crystallin/small heat shock protein gene regulation in the murine lens. Interaction with the lens–specific regions, LSR1 and LSR2. Gopal–Srivastava R, et al. **J Biol Chem** 1996 Sep 20;271(38):23029–36

Molecular characterization of a second mouse pancreatic polypeptide receptor and its inactivated human homologue. Gregor P, et al. **J Biol Chem** 1996 Nov 1;271(44):27776–81

Developmental regulation of presenilin–1 processing in the brain suggests a role in neuronal differentiation. Hartmann H, et al. **J Biol Chem** 1997 Jun 6;272(23):14505–8

Human TEF–5 is preferentially expressed in placenta and binds to multiple functional elements of the human chorionic somatomammotropin–B gene enhancer. Jacquemin P, et al. **J Biol Chem** 1997 May 16; 272(20):12928–37

Ovarian– and somatic–specific transcripts of the mosquito clathrin heavy chain gene generated by alternative 5'–exon splicing and polyadenylation. Kokoza VA, et al. **J Biol Chem** 1997 Jan 10;272(2):1164–70

Identification of a functional determinant of differentiation–dependent expression in the involucrin gene. LaPres JJ, et al. **J Biol Chem** 1996 Sep 20;271(38):23154–60

Twist–mediated activation of the NK–4 homeobox gene in the visceral mesoderm of Drosophila requires two distinct clusters of E–box regulatory elements. Lee YM, et al. **J Biol Chem** 1997 Jul 11;272(28):17531–41

Molecular characterization of a novel, developmentally regulated small embryonic chaperone from Caenorhabditis elegans. Linder B, et al. **J Biol Chem** 1996 Nov 22; 271(47):30158–66

Developmental regulation of a pregnancy–specific oligosaccharide structure, NeuAcalpha2,6GalNAcbeta1,4GlcNAc, on select members of the rat placental prolactin family. Manzella SM, et al. **J Biol Chem** 1997 Feb 21;272(8):4775–82

Masking and unmasking maternal mRNA. The role of polyadenylation, transcription, splicing, and nuclear history. Meric F, et al. **J Biol Chem** 1996 Nov 29; 271(48):30804–10

Destabilization of human alpha–globin mRNA by translation anti–termination is controlled during erythroid differentiation and is paralleled by phased shortening of the poly(A) tail. Morales J, et al. **J Biol Chem** 1997 Mar 7;272(10):6607–13

Structural and functional analysis of the chick chondroitin sulfate proteoglycan (aggrecan) promoter and enhancer region. Pirok EW 3rd, et al. **J Biol Chem** 1997 Apr 25; 272(17):11566–74

Alternative splicing of the sodium channel SCN8A predicts a truncated two–domain protein in fetal brain and non–neuronal cells. Plummer NW, et al. **J Biol Chem** 1997 Sep 19;272(38):24008–15

A three–protein–DNA complex on a B cell–specific domain of the immunoglobulin mu heavy chain gene enhancer. Rao E, et al. **J Biol Chem** 1997 Mar 7;272(10):6722–32

Snmp–1, a novel membrane protein of olfactory neurons of the silk moth Antheraea polyphemus with homology to the CD36 family of membrane proteins. Rogers ME, et al. **J Biol Chem** 1997 Jun 6;272(23):14792–9

Molecular cloning, developmental expression, and phosphorylation of ribosomal protein S6 in the endocrine gland responsible for insect molting. Song Q, et al. **J Biol Chem** 1997 Feb 14;272(7):4429–35

Ubiquitous expression of the alpha1(XIX) collagen gene (Col19a1) during mouse embryogenesis becomes restricted to a few tissues in the adult organism. Sumiyoshi H, et al. **J Biol Chem** 1997 Jul 4;272(27):17104–11

Evolution of a fetal expression pattern via cis changes near the gamma globin gene. TomHon C, et al. **J Biol Chem** 1997 May 30;272(22):14062–6

A novel matrix metalloproteinase gene (XMMP) encoding vitronectin–like motifs is transiently expressed in Xenopus laevis early embryo development. Yang M, et al. **J Biol Chem** 1997 May 23;272(21):13527–33

Cloning and developmental expression of a membrane–type matrix metalloproteinase from chicken. Yang M, et al. **J Biol Chem** 1996 Oct 11;271(41):25548–54

Transgenic analyses reveal developmentally regulated neuron– and muscle–specific elements in the murine neurofilament light chain gene promoter. Yaworsky PJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25112–20

Induction of the intronic enhancer of the human ciliary neurotrophic factor receptor (CNTFRalpha) gene by the TR4 orphan receptor. A member of steroid receptor superfamily. Young WJ, et al. **J Biol Chem** 1997 Jan 31; 272(5):3109–16

Alternative splicing of the unique "PLUS" domain of chicken PG–M/versican is developmentally regulated. Zako M, et al. **J Biol Chem** 1997 Apr 4;272(14):9325–31

Identification and characterization of the cell type–specific and developmentally regulated alpha7 integrin gene promoter. Ziober BL, et al. **J Biol Chem** 1996 Sep 13; 271(37):22915–22

Age–related changes in light–induced Jun–B and Jun–D expression: effects of transplantation of fetal tissue containing the suprachiasmatic nucleus. Cai A, et al. **J Biol Rhythms** 1996 Dec;11(4):284–90

Subcellular partitioning of transcription factors during osteoblast differentiation: developmental association of the AML/CBF alpha/PEBP2 alpha–related transcription factor–NMP–2 with the nuclear matrix. Lindenmuth DM, et al. **J Cell Biochem** 1997 Jul 1;66(1):123–32

Expression of basic helix–loop–helix transcription factors in explant hematopoietic progenitors. Quesenberry PJ, et al. **J Cell Biochem** 1996 Jun 1;61(3):478–88

mRNAs for microtubule proteins are specifically colocalized during the sequential formation of basal body, flagella, and cytoskeletal microtubules in the differentiation of Naegleria gruberi. Han JW, et al. **J Cell Biol** 1997 May 19; 137(4):871–9

The mesodermal expression of rolling stone (rost) is essential for myoblast fusion in Drosophila and encodes a potential transmembrane protein. Paululat A, et al. **J Cell Biol** 1997 Jul 28;138(2):337–48

Delayed development of nervous system in mice homozygous for disrupted microtubule–associated protein 1B (MAP1B) gene. Takei Y, et al. **J Cell Biol** 1997 Jun 30;137(7):1615–26

Cartilage associated protein (CASP) is a novel developmentally regulated chick embryo protein. Castagnola P, et al. **J Cell Sci** 1997 Jun;110 (Pt 12):1351–9

Integrin–dependent induction of early growth response genes in capillary endothelial cells. Dike LE, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2855–63

The developmentally regulated Drosophila embryonic nuclear lamina protein 'Young Arrest' (fs(1)Ya) is capable of associating with chromatin. Lopez JM, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):643–51

The casein kinase 1 alpha gene of Drosophila melanogaster is developmentally regulated and the kinase activity of the protein induced by DNA damage. Santos JA, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1847–56

Spatio–temporally differential expression of genes for three members of fatty acid binding proteins in developing and mature rat brains. Owada Y, et al. **J Chem Neuroanat** 1996 Dec;12(2):113–22

Spontaneous puberty in 46,XX subjects with congenital lipoid adrenal hyperplasia. Ovarian steroidogenesis is spared to some extent despite inactivating mutations in the steroidogenic acute regulatory protein (StAR) gene. Fujieda K, et al. **J Clin Invest** 1997 Mar 15;99(6):1265–71

Isoform switching of type IV collagen is developmentally arrested in X–linked Alport syndrome leading to increased susceptibility of renal basement membranes to endoproteolysis. Kalluri R, et al. **J Clin Invest** 1997 May 15;99(10):2470–8

Reactive oxygen intermediates increase vascular endothelial growth factor expression in vitro and in vivo. Kuroki M, et al. **J Clin Invest** 1996 Oct 1;98(7):1667–75

Developmental regulation, expression, and apoptotic potential of galectin–9, a beta–galactoside binding lectin. Wada J, et al. **J Clin Invest** 1997 May 15;99(10):2452–61

Ontogeny of somatostatin binding sites in respiratory nuclei of the human brainstem. Carpentier V, et al. **J Comp Neurol** 1997 May 19;381(4):461–72

Spatiotemporal pattern of ontogenetic expression of calbindin–28/kD in the retinorecipient layers of rat superior colliculus. Dreher B, et al. **J Comp Neurol** 1996 Dec 9; 376(2):223–40

Immunohistochemical localization of neurocan and L1 in the formation of thalamocortical pathway of developing rats. Fukuda T, et al. **J Comp Neurol** 1997 Jun 2;382(2):141–52

Molecular characterization of E587 antigen: an axonal recognition molecule expressed in the goldfish central nervous system. Giordano S, et al. **J Comp Neurol** 1997 Jan 13;377(2):286–97

Nerve growth factor receptor TrkA is down–regulated during postnatal development by a subset of dorsal root ganglion neurons. Molliver DC, et al. **J Comp Neurol** 1997 May 19;381(4):428–38

Developmentally regulated expression of calcitonin gene–related peptide in the superior olive. Simmons DD, et al. **J Comp Neurol** 1997 Jan 13;377(2):207–16

Expressions of c–jun and jun–B proto–oncogenes in odontoblasts during development of bovine tooth germs. Kitamura C, et al. **J Dent Res** 1997 Apr;76(4):822–30

Spatial patterns of olfactory neurons expressing specific odor receptor genes in 48–hour–old embryos of zebrafish Danio rerio. Vogt RG, et al. **J Exp Biol** 1997 Feb;200 (Pt 3):433–43

Regulation of T cell receptor delta gene rearrangement by CBF/PEBP2. Lauzurica P, et al. **J Exp Med** 1997 Apr 7;185(7):1193–201

Downregulation of CD1 marks acquisition of functional maturation of human thymocytes and defines a control point in late stages of human T cell development. Res P, et al. **J Exp Med** 1997 Jan 6;185(1):141–51

Selective expression of an interleukin–12 receptor component by human T helper 1 cells. Rogge L, et al. **J Exp Med** 1997 Mar 3;185(5):825–31

Regulation of the interleukin (IL)–12R beta 2 subunit expression in developing T helper 1 (Th1) and Th2 cells. Szabo SJ, et al. **J Exp Med** 1997 Mar 3;185(5):817–24

Transcription of the neurogenic gene mastermind during Drosophila development. Schmid AT, et al. **J Exp Zool** 1996 Mar 1;274(4):207–20

Novel techniques to identify stage–specific genes during heart development. Hinton DA. **J Fla Med Assoc** 1996 Feb; 83(2):135–7 (11 ref.)

Ontogenic expression of the Na(+)–independent organic anion transporting polypeptide (oatp) in rat liver and kidney. Dubuisson C, et al. **J Hepatol** 1996 Dec; 25(6):932–40

Epithelial marker genes are expressed in cultured embryonic rat lung and in vivo with similar spatial and temporal patterns. Meneghetti A, et al. **J Histochem Cytochem** 1996 Oct;44(10):1173–82

In situ hybridization analysis of ZPK gene expression during murine embryogenesis. Nadeau A, et al. **J Histochem Cytochem** 1997 Jan;45(1):107–18

Extrathymic origin of human gamma delta T cells during fetal development. McVay LD, et al. **J Immunol** 1996 Oct 1;157(7):2873–82

Expression of trKB neurotrophin receptor during T cell development. Role of brain derived neurotrophic factor in immature thymocyte survival. Maroder M, et al. **J Immunol** 1996 Oct 1;157(7):2864–72

Protein kinase C alpha–mediated chronic signal transduction for immunosenescence. Ohkusu K, et al. **J Immunol** 1997 Sep 1;159(5):2082–4

Regulation and trafficking of three distinct 18 S ribosomal RNAs during development of the malaria parasite. Li J, et al. **J Mol Biol** 1997 Jun 6;269(2):203–13

Characterization of a human cardiac gene which encodes for a LIM domain protein and is developmentally expressed in myocardial development. Fung YW, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1203–10

Identification of genes associated with myocardial development. Fung YW, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1241–9

Developmental changes in rat cardiac DNA, RNA and protein tissue base: implications for the interpretation of changes in gene expression. van den Hoff MJ, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):629–39

Developmental expression of the cyclo–oxygenase–1 and cyclo–oxygenase–2 genes in the peri–implantation mouse uterus and their differential regulation by the blastocyst and ovarian steroids. Chakraborty I, et al. **J Mol Endocrinol** 1996 Apr;16(2):107–22

Investigation of the potential role of the germ cell complement in control of the expression of transferrin mRNA in the prepubertal and adult rat testis. Maguire SM, et al. **J Mol Endocrinol** 1997 Aug;19(1):67–77

Regenerating (reg) and insulin genes are expressed in prepancreatic mouse embryos. Perfetti R, et al. **J Mol Endocrinol** 1996 Aug;17(1):79–88

The expression of parathyroid hormone and parathyroid hormone–related protein in developing rat parathyroid glands. Tucci J, et al. **J Mol Endocrinol** 1996 Oct; 17(2):149–57

Differential effects of hypothyroidism on Na–K–ATPase mRNA alpha isoforms in the developing rat brain. Chaudhury S, et al. **J Mol Neurosci** 1996 Fall;7(3):229–34

Four repeat high–mol–wt MAP2 forms in rat dorsal root ganglia. Forleo P, et al. **J Mol Neurosci** 1996 Fall; 7(3):193–201

Spatial and temporal patterns of myosin heavy chain expression in developing rat extraocular muscle. Brueckner JK, et al. **J Muscle Res Cell Motil** 1996 Jun;17(3):297–312

Neurotransmitter–mediated regulation of brain aromatase: protein kinase C– and G–dependent induction. Abe–Dohmae S, et al. **J Neurochem** 1996 Nov; 67(5):2087–95

Expression of pituitary adenylate cyclase–activating polypeptide (PACAP) receptors and PACAP in human fetal retina. Olianas MC, et al. **J Neurochem** 1997 Sep; 69(3):1213–8

Accelerated myelinogenesis by dietary lipids in rat brain. Salvati S, et al. **J Neurochem** 1996 Oct;67(4):1744–50

Functional consequences of changes in NMDA receptor subunit expression during development. Feldmeyer D, et al. **J Neurocytol** 1996 Dec;25(12):857–67 (80 ref.)

Glial organization and chondroitin sulfate proteoglycan expression in the developing thalamus. Mitrofanis J, et al. **J Neurocytol** 1997 Feb;26(2):83–100

Transient expression of NADPH diaphorase activity in the mouse whisker to barrel field pathway. Mitrovic N, et al. **J Neurocytol** 1996 Aug;25(8):429–37

Distinct mechanisms of action of the Lozenge locus in Drosophila eye and antennal development are suggested by the analysis of dominant enhancers. Gupta BP, et al. **J Neurogenet** 1995 Dec;10(3):137–51

Developmental regulation of presenilin mRNA expression parallels notch expression. Berezovska O, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):40–4

An ATP–dependent inwardly rectifying potassium channel, KAB–2 (Kir4. 1), in cochlear stria vascularis of inner ear: its specific subcellular localization and correlation with the formation of endocochlear potential. Hibino H, et al. **J Neurosci** 1997 Jun 15;17(12):4711–21

Overexpression of growth–associated proteins in the neurons of adult transgenic mice. Caroni P. **J Neurosci Methods** 1997 Jan;71(1):3–9 (19 ref.)

Hoxb–8 gain–of–function transgenic mice exhibit alterations

in the peripheral nervous system. Fanarraga ML, et al. **J Neurosci Methods** 1997 Jan;71(1):11–8 (19 ref.)

Expression and subcellular distribution of glutamate receptor subunits 2/3 in the developing cerebellar cortex. Bergmann M, et al. **J Neurosci Res** 1996 Jan 1;43(1):78–86

Oct-6 (SCIP/Tst-1) is expressed in Schwann cell precursors, embryonic Schwann cells, and postnatal myelinating Schwann cells: comparison with Oct-1, Krox-20, and Pax-3. Blanchard AD, et al. **J Neurosci Res** 1996 Dec 1; 46(5):630–40

Expression of DA11, a neuronal-injury-induced fatty acid binding protein, coincides with axon growth and neuronal differentiation during central nervous system development. Liu Y, et al. **J Neurosci Res** 1997 Jun 15;48(6):551–62

Identification of transcriptionally regulated mRNAs from mouse Schwann cell precursors using modified RNA fingerprinting methods. Zoidl G, et al. **J Neurosci Res** 1997 Jul 1;49(1):32–42

Developmental regulation of tissue transglutaminase during human placentation and expression in neoplastic trophoblast. Hager H, et al. **J Pathol** 1997 Jan;181(1):106–10

Presence of different collagens and collagen mRNAs during embryogenesis and in adult tissues of the sea urchin Paracentrotus lividus. Gambino R, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):41–7

Laminin alpha 1, alpha 2, alpha 4 and beta 1 chain mRNA expression in mouse embryonic, neonatal, and adult hearts. Hirohata S, et al. **Jpn Heart J** 1997 Mar;38(2):281–9

Changing patterns of gene expression in developing mouse kidney, as probed by differential mRNA display combined with cDNA library screening. Rosenblum ND, et al. **Kidney Int** 1997 Mar;51(3):920–5

Representational difference analysis of cDNA of genes expressed in embryonic kidney. Wada J, et al. **Kidney Int** 1997 May;51(5):1629–38

DNA methylation and developmental genes in lymphomagenesis--more questions than answers? Kay PH, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):211–20 (58 ref.)

Relative expression of insulin genes I and II during pancreatic development in fetuses of rats with streptozotocin-induced diabetes. Noda K, et al. **Life Sci** 1997;60(10):707–14

Molecular cloning and mapping of a novel developmentally regulated human C2H2-type zinc finger. Becker KG, et al. **Mamm Genome** 1997 Apr;8(4):287–9

Organization and expression of bovine TSPY. Vogel T, et al. **Mamm Genome** 1997 Jul;8(7):491–6

Expression of laminin alpha 1, alpha 5 and beta 2 chains during embryogenesis of the kidney and vasculature. Durbeej M, et al. **Matrix Biol** 1996 Dec;15(6):397–413

Expression of collagen types IX and XI and other major cartilage matrix components by human fetal chondrocytes in vivo. Vornehm SI, et al. **Matrix Biol** 1996 Jul;15(2):91–8

Developmental regulation of perlecan gene expression in aortic smooth muscle cells. Weiser MC, et al. **Matrix Biol** 1996 Nov;15(5):331–40

Matrix Gla protein gene expression is elevated during postnatal development. Zhao J, et al. **Matrix Biol** 1996 Jul; 15(2):131–40

Regulation of cytokine production in aging: use of recombinant cytokines to upregulate mitogen-stimulated spleen cells. Frasca D, et al. **Mech Ageing Dev** 1997 Feb; 93(1–3):157–69

The Xenopus homologue of hepatocyte growth factor-like protein is specifically expressed in the presumptive neural plate during gastrulation. Aberger F, et al. **Mech Dev** 1996 Jan;54(1):23–37

Interaction of goosecoid and brachyury in Xenopus mesoderm patterning. Artinger M, et al. **Mech Dev** 1997 Jul;65(1–2):187–96

Inactivation of the zebrafish homologue of Chx10 by antisense oligonucleotides causes eye malformations similar to the ocular retardation phenotype. Barabino SM, et al. **Mech Dev** 1997 May;63(2):133–43

Transcription regulation and alternative splicing of an early zygotic gene encoding two structurally distinct zinc finger proteins in Xenopus laevis. Bellefroid E, et al. **Mech Dev** 1997 Apr;63(1):99–108

A gradient of cytoplasmic Cactus degradation establishes the nuclear localization gradient of the dorsal morphogen in Drosophila. Bergmann A, et al. **Mech Dev** 1996 Nov; 60(1):109–23

Further observations on the susceptibility of diencephalic prosomeres to En-2 induction and on the resulting histogenetic capabilities. Bloch-Gallego E, et al. **Mech Dev** 1996 Aug;58(1–2):51–63

Expression of the estrogen-related receptor 1 (ERR-1) orphan receptor during mouse development. Bonnelye E, et al. **Mech Dev** 1997 Jul;65(1–2):71–85

Chromosomal binding sites of Ultrabithorax homeotic proteins. Botas J, et al. **Mech Dev** 1996 May;56(1–2):129–38

Developmental expression pattern of Stra6, a retinoic acid-responsive gene encoding a new type of membrane protein. Bouillet P, et al. **Mech Dev** 1997 May;63(2):173–86

Chicken NKx2–8, a novel homeobox gene expressed during early heart and foregut development. Brand T, et al. **Mech Dev** 1997 Jun;64(1–2):53–9

Spx1, a novel X-linked homeobox gene expressed during spermatogenesis. Branford WW, et al. **Mech Dev** 1997 Jul; 65(1–2):87–98

The Drosophila homeotic gene moira regulates expression of engrailed and HOM genes in imaginal tissues. Brizuela BJ, et al. **Mech Dev** 1997 Jul;65(1–2):209–20

Chick NKx-2.3 represents a novel family member of vertebrate homologues to the Drosophila homeobox gene tinman: differential expression of cNKx-2.3 and cNKx-2.5 during heart and gut development. Buchberger A, et al. **Mech Dev** 1996 May;56(1–2):151–63

Evidence for genetic control of Sonic hedgehog by Gli3 in mouse limb development. Büscher D, et al. **Mech Dev** 1997 Mar;62(2):175–82

Xrx1, a novel Xenopus homeobox gene expressed during eye and pineal gland development. Casarosa S, et al. **Mech Dev** 1997 Jan;61(1–2):187–98

Comparison of MSX-1 and MSX-2 suggests a molecular basis for functional redundancy. Catron KM, et al. **Mech Dev** 1996 Apr;55(2):185–99

Distinct regulatory control of the Brachyury gene in axial and non-axial mesoderm suggests separation of mesoderm lineages early in mouse gastrulation. Clements D, et al. **Mech Dev** 1996 May;56(1–2):139–49

Graded effect of tailless on posterior gut development: molecular basis of an allelic series of a nuclear receptor gene. Diaz RJ, et al. **Mech Dev** 1996 Jan;54(1):119–30

The evolution of Msx gene function: expression and regulation of a sea urchin Msx class homeobox gene. Dobias SL, et al. **Mech Dev** 1997 Jan;61(1–2):37–48

Overexpression of a zebrafish homologue of the Drosophila neurogenic gene Delta perturbs differentiation of primary neurons and somite development. Dornseifer P, et al. **Mech Dev** 1997 May;63(2):159–71

The expression pattern of the mafB/kr gene in birds and mice reveals that the kreisler phenotype does not represent a null mutant. Eichmann A, et al. **Mech Dev** 1997 Jul; 65(1–2):111–22

HRF, a putative basic helix-loop-helix-PAS-domain transcription factor is closely related to hypoxia-inducible factor-1 alpha and developmentally expressed in blood vessels. Flamme I, et al. **Mech Dev** 1997 Apr;63(1):51–60

Expression patterns of developmental genes reveal segment and parasegment organization of D. melanogaster genital discs. Freeland DE, et al. **Mech Dev** 1996 May; 56(1–2):61–72

Orthodenticle regulation during embryonic head development in Drosophila. Gao Q, et al. **Mech Dev** 1996 May;56(1–2):3–15

Evidence of a role for T-box genes in the evolution of limb morphogenesis and the specification of forelimb/hindlimb identity. Gibson-Brown JJ, et al. **Mech Dev** 1996 May; 56(1–2):93–101

Lethal of scute requires overexpression of daughterless to elicit ectopic neuronal development during embryogenesis in Drosophila. Giebel B, et al. **Mech Dev** 1997 Apr; 63(1):75–87

Spatial expression of a forkhead homologue in the sea urchin embryo. Harada Y, et al. **Mech Dev** 1996 Dec;60(2):163–73

Bax and Bcl-xs are induced at the onset of apoptosis in involuting mammary epithelial cells. Heermeier K, et al. **Mech Dev** 1996 May;56(1–2):197–207

Embryonic expression of glial cell-line derived neurotrophic factor (GDNF) suggests multiple developmental roles in neural differentiation and epithelial-mesenchymal interactions. Hellmich HL, et al. **Mech Dev** 1996 Jan; 54(1):95–105

Isolation and developmental expression analysis of Enx-1, a novel mouse Polycomb group gene. Hobert O, et al. **Mech Dev** 1996 Apr;55(2):171–84

Control of gut development by fork head and cell signaling molecules in Drosophila. Hoch M, et al. **Mech Dev** 1996 Aug;58(1–2):3–14

Transcriptional hierarchy in Xenopus embryogenesis: HNF4 a maternal factor involved in the developmental activation of the gene encoding the tissue specific transcription factor HNF1 alpha (LFB1). Holewa B, et al. **Mech Dev** 1996 Jan;54(1):45–57

Insertional mutation of the mouse Msx1 homeobox gene by an nlacZ reporter gene. Houzelstein D, et al. **Mech Dev** 1997 Jul;65(1–2):123–33

The Evi1 proto-oncogene is required at midgestation for neural, heart, and paraxial mesenchyme development. Hoyt PR, et al. **Mech Dev** 1997 Jul;65(1–2):55–70

Nuclear localization of beta-catenin by interaction with transcription factor LEF-1. Huber O, et al. **Mech Dev** 1996 Sep;59(1):3–10

Regulation of the zebrafish goosecoid promoter by mesoderm inducing factors and Xwnt1. Joore J, et al. **Mech Dev** 1996 Mar;55(1):3–18

xGCNF, a nuclear orphan receptor is expressed during neurulation in Xenopus laevis. Joos TO, et al. **Mech Dev** 1996 Nov;60(1):45–57

Xotx genes in the developing brain of Xenopus laevis. Kablar B, et al. **Mech Dev** 1996 Apr;55(2):145–58

Expression of the winged helix genes fkh-4 and fkh-5 defines domains in the central nervous system. Kaestner KH, et al. **Mech Dev** 1996 Apr;55(2):221–30

A sequence conserved in vertebrate Hox gene introns functions as an enhancer regulated by posterior homeotic genes in Drosophila imaginal discs. Keegan LP, et al. **Mech Dev** 1997 May;63(2):145–57

Transcripts of Grg4, a murine groucho-related gene, are detected in adjacent tissues to other murine neurogenic gene homologues during embryonic development. Koop KE, et al. **Mech Dev** 1996 Sep;59(1):73–87

Dominant negative expression of a cytoplasmically deleted mutant of XB/U-cadherin disturbs mesoderm migration during gastrulation in Xenopus laevis. Kühl M, et al. **Mech Dev** 1996 Jan;54(1):71–82

Xwnt-2b is a novel axis-inducing Xenopus Wnt, which is expressed in embryonic brain. Landesman Y, et al. **Mech Dev** 1997 May;63(2):199–209

Paternal repression of the imprinted mouse Igf2r locus occurs during implantation and is stable in all tissues of the post-implantation mouse embryo. Lerchner W, et al. **Mech Dev** 1997 Jan;61(1–2):141–9

Identification and functional characterization of conserved promoter elements from glass: a retinal development gene of Drosophila. Liu H, et al. **Mech Dev** 1996 May; 56(1–2):73–82

A role for Xenopus Gli-type zinc finger proteins in the early embryonic patterning of mesoderm and neuroectoderm. Marine JC, et al. **Mech Dev** 1997 May;63(2):211–25

The chicken caudal genes establish an anterior-posterior gradient by partially overlapping temporal and spatial patterns of expression. Marom K, et al. **Mech Dev** 1997 Jun;64(1–2):41–52

Fritz: a secreted frizzled-related protein that inhibits Wnt activity. Mayr T, et al. **Mech Dev** 1997 Apr;63(1):109–25

Expression of a novel aristaless related homeobox gene 'Arx' in the vertebrate telencephalon, diencephalon and floor plate. Miura H, et al. **Mech Dev** 1997 Jul;65(1–2):99–109

A Distal-less-like gene is induced in the regenerating central nervous system of the urodele Pleurodeles waltl. Nicolas S, et al. **Mech Dev** 1996 May;56(1–2):209–20

The receptor tyrosine kinase, Cek8, is transiently expressed on subtypes of motoneurons in the spinal cord during development. Ohta K, et al. **Mech Dev** 1996 Jan;54(1):59–69

A chick wingless mutation causes abnormality in maintenance of Fgf8 expression in the wing apical ridge, resulting in loss of the dorsoventral boundary. Ohuchi H, et al. **Mech Dev** 1997 Feb;62(1):3–13

The mouse homolog of the region specific homeotic gene spalt of Drosophila is expressed in the developing nervous system and in mesoderm-derived structures. Ott T, et al. **Mech Dev** 1996 May;56(1–2):117–28

The dynamics of neurogenic signalling underlying bristle development in Drosophila melanogaster. Parks AL, et al. **Mech Dev** 1997 Apr;63(1):61–74

Differentiation dependent expression in muscle cells of ZT3, a novel zinc finger factor differentially expressed in embryonic and adult tissues. Polimeni M, et al. **Mech Dev** 1996 Jan;54(1):107–17

Spatial and temporal pattern of expression of the wingless and engrailed genes in the adult antenna is regulated by age-dependent mechanisms. Rogina B, et al. **Mech Dev** 1997 Apr;63(1):89–97

The fu gene discriminates between pathways to control dpp expression in Drosophila imaginal discs. Sánchez-Herrero E, et al. **Mech Dev** 1996 Apr;55(2):159–70

A zebrafish Id homologue and its pattern of expression during embryogenesis. Sawai S, et al. **Mech Dev** 1997 Jul; 65(1–2):175–85

Krox-20 is a key regulator of rhombomere-specific gene expression in the developing hindbrain. Seitanidou T, et al. **Mech Dev** 1997 Jul;65(1–2):31–42

The murine homeobox gene Msx-3 shows highly restricted expression in the developing neural tube. Shimeld SM, et al. **Mech Dev** 1996 Apr;55(2):201–10

Regionalized expression of the Dbx family homeobox genes in the embryonic CNS of the mouse. Shoji H, et al. **Mech Dev** 1996 May;56(1–2):25–39

Expression and regulation of a netrin homologue in the zebrafish embryo. Strähle U, et al. **Mech Dev** 1997 Mar; 62(2):147–60

Embryo implantation in mouse: fetomaternal coordination in the pattern of expression of uPA, uPAR, PAI-1 and alpha 2MR/LRP genes. Teesalu T, et al. **Mech Dev** 1996 May;56(1–2):103–16

Targets of glass regulation in the Drosophila eye disc. Treisman JE, et al. **Mech Dev** 1996 May;56(1–2):17–24

Bapx1: an evolutionary conserved homologue of the Drosophila bagpipe homeobox gene is expressed in splanchnic mesoderm and the embryonic skeleton. Tribioli C, et al. **Mech Dev** 1997 Jul;65(1–2):145–62

Differential accumulation of DPTP61F alternative transcripts: regulation of a protein tyrosine phosphatase by segmentation genes. Ursuliak Z, et al. **Mech Dev** 1997 Jul; 65(1–2):19–30

The enamel knot as a signaling center in the developing mouse tooth. Vaahtokari A, et al. **Mech Dev** 1996 Jan; 54(1):39–43

Activation of the mec-3 promoter in two classes of stereotyped lineages in Caenorhabditis elegans. Wang L, et al. **Mech Dev** 1996 May;56(1–2):165–81

Promoter sequences for the establishment of mec-3 expression in the nematode Caenorhabditis elegans. Wang L, et al. **Mech Dev** 1996 May;56(1–2):183–96

buttonhead and D-Sp1: a novel Drosophila gene pair. Wimmer EA, et al. **Mech Dev** 1996 Sep;59(1):53–62

Cloning and expression analysis of a novel mouse gene with sequence similarity to the Drosophila fat facets gene. Wood SA, et al. **Mech Dev** 1997 Apr;63(1):29–38

Distal cis-acting elements restrict expression of the CyIIIb actin gene in the aboral ectoderm of the sea urchin embryo. Xu N, et al. **Mech Dev** 1996 Dec;60(2):151–62

Application of differential display in studying developmental processes. Guimarães MJ, et al. **Methods Mol Biol** 1997; 85:175–94

Genetic networks that regulate development in Dictyostelium cells. Loomis WF. **Microbiol Rev** 1996 Mar; 60(1):135–50 (163 ref.)

Gene regulation during high-frequency switching in Candida albicans. Soll DR. **Microbiology** 1997 Feb;143 (Pt 2):279–88 (60 ref.)

Expression of the somatostatin gene and receptors in the rat harderian gland. Mato ME, et al. **Microsc Res Tech** 1996 Jun 1;34(2):118–22

Molecular histology in skin appendage morphogenesis. Widelitz RB, et al. **Microsc Res Tech** 1997 Aug 15; 38(4):452–65 (70 ref.)

Genes expressed in Brugia malayi infective third stage larvae. Blaxter ML, et al. **Mol Biochem Parasitol** 1996 Apr; 77(1):77–93

Bradyzoite-specific gene expression in Toxoplasma gondii requires minimal genomic elements. Bohne W, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):89–98

Differential expression of Leishmania major beta-tubulin genes during the acquisition of promastigote infectivity. Coulson RM, et al. **Mol Biochem Parasitol** 1996 Nov 25; 82(2):227–36

Molecular cloning of a developmentally regulated protein isolated from excretory-secretory products of larval Dirofilaria immitis. Frank GR, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):231–40

Molecular cloning and characterisation of a developmentally regulated putative metallopeptidase present in a host protective extract of Haemonchus contortus. Redmond DL, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):77–87

Tissue localization and stage-specific expression of the phospholipid hydroperoxide glutathione peroxidase of Schistosoma mansoni. Roche C, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):187–95

Induction of p18INK4c and its predominant association with CDK4 and CDK6 during myogenic differentiation. Franklin DS, et al. **Mol Biol Cell** 1996 Oct;7(10):1587–99

Evolution of functional diversification of the paired box (Pax) DNA-binding domains. Balczarek KA, et al. **Mol Biol Evol** 1997 Aug;14(8):829–42

cDNA cloning of a developmentally regulated hemocyanin subunit in the crustacean Cancer magister and phylogenetic analysis of the hemocyanin gene family. Durstewitz G, et al. **Mol Biol Evol** 1997 Mar;14(3):266–76

POU domain transcription factors in embryonic development. Veenstra GJ, et al. **Mol Biol Rep** 1997 Aug; 24(3):139–55 (245 ref.)

Immediate postnatal rat heart development modified by abdominal aortic banding: analysis of gene expression. Engelmann GL, et al. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:47–56

Expression of c-Fos in subcutaneous adipose tissue of the fetal pig. Lee K, et al. **Mol Cell Biochem** 1996 Feb 9; 155(1):31–5

Cleavage of RNA hairpins mediated by a developmentally regulated CCCH zinc finger protein. Bai C, et al. **Mol Cell Biol** 1996 Dec;16(12):6661–7

Nuclear receptor steroidogenic factor 1 directs embryonic stem cells toward the steroidogenic lineage. Crawford PA, et al. **Mol Cell Biol** 1997 Jul;17(7):3997–4006

Two new members of the murine Sim gene family are transcriptional repressors and show different expression patterns during mouse embryogenesis. Ema M, et al. **Mol Cell Biol** 1996 Oct;16(10):5865–75

Transcription enhancer factor 1 interacts with a basic helix-loop-helix zipper protein, Max, for positive regulation of cardiac alpha-myosin heavy-chain gene expression. Gupta MP, et al. **Mol Cell Biol** 1997 Jul; 17(7):3924–36

HNF4beta, a new gene of the HNF4 family with distinct activation and expression profiles in oogenesis and embryogenesis of Xenopus laevis. Holewa B, et al. **Mol Cell Biol** 1997 Feb;17(2):687–94

A mutation in mouse rad51 results in an early embryonic lethal that is suppressed by a mutation in p53. Lim DS, et al. **Mol Cell Biol** 1996 Dec;16(12):7133–43

NeuroD2 and neuroD3: distinct expression patterns and transcriptional activation potentials within the neuroD gene family. McCormick MB, et al. **Mol Cell Biol** 1996 Oct; 16(10):5792–800

The five cleavage-stage (CS) histones of the sea urchin are encoded by a maternally expressed family of replacement histone genes: functional equivalence of the CS H1 and frog H1M (B4) proteins. Mandl B, et al. **Mol Cell Biol** 1997 Mar;17(3):1189–200

Sequence-specific epigenetic effects of the maternal somatic genome on developmental rearrangements of the zygotic genome in Paramecium primaurelia. Meyer E, et al. **Mol Cell Biol** 1997 Jul;17(7):3589–99

Targeted disruption of the mouse topoisomerase I gene by camptothecin selection. Morham SG, et al. **Mol Cell Biol** 1996 Dec;16(12):6804–9

Regulation of the EDG84A gene by FTZ-F1 during metamorphosis in Drosophila melanogaster. Murata T, et al. **Mol Cell Biol** 1996 Nov;16(11):6509–15

Both thyroid hormone and 9-cis retinoic acid receptors are required to efficiently mediate the effects of thyroid hormone on embryonic development and specific gene regulation in Xenopus laevis. Puzianowska-Kuznicka M, et al. **Mol Cell Biol** 1997 Aug;17(8):4738–49

Identification of positively and negatively acting elements regulating expression of the E2F2 gene in response to cell growth signals. Sears R, et al. **Mol Cell Biol** 1997 Sep; 17(9):5227–35

An alternative splicing event in the Pax-3 paired domain identifies the linker region as a key determinant of paired domain DNA-binding activity. Vogan KJ, et al. **Mol Cell Biol** 1996 Dec;16(12):6677–86

Hepatocyte nuclear factor 3/fork head homolog 11 is expressed in proliferating epithelial and mesenchymal cells of embryonic and adult tissues. Ye H, et al. **Mol Cell Biol** 1997 Mar;17(3):1626–41

Sequence and developmental expression of Cyp18, a member of a new cytochrome P450 family from Drosophila. Bassett MH, et al. **Mol Cell Endocrinol** 1997 Jul 4;131(1):39–49

Expression of the rat BFGF antisense RNA transcript is tissue-specific and developmentally regulated. Li AW, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1–2):113–23

Developmental and FGF-2-mediated regulation of syndecans (1–4) and glypican in oligodendrocytes. Bansal R, et al. **Mol Cell Neurosci** 1996 Apr;7(4):276–88

Dystonin expression in the developing nervous system predominates in the neurons that degenerate in dystonia musculorum mutant mice. Bernier G, et al. **Mol Cell Neurosci** 1995 Dec;6(6):509–20

Early expression of the nerve growth factor receptor ctrkA in chick sympathetic and sensory ganglia. Schröpel A, et al. **Mol Cell Neurosci** 1995 Dec;6(6):544–66

Expression of the fibroblast growth factor-2 gene during chick development. Han JK. **Mol Cells** 1997 Apr 30; 7(2):208–13

Steroidogenic factor 1 and Dax-1 colocalize in multiple cell lineages: potential links in endocrine development. Ikeda Y, et al. **Mol Endocrinol** 1996 Oct;10(10):1261–72

A trans-acting modifier causing extensive overexpression of genes in Drosophila melanogaster. Bhadra U, et al. **Mol Gen Genet** 1997 May;254(6):621–34

Expression and activity of hexokinase in the early mouse embryo. Houghton FD, et al. **Mol Hum Reprod** 1996 Oct; 2(10):793–8

Developmental specificity of immunoglobulin heavy chain switch region recombination activities. Li MJ, et al. **Mol Immunol** 1997 Feb;34(3):201–8

Nucleotide sequence of the promoter region of Sparus aurata insulin-like growth factor I gene and expression of IGF-I in eggs and embryos. Fukenstein B, et al. **Mol Mar Biol Biotechnol** 1996 Mar;5(1):43–51

Molecular analysis of a RAPD marker (B20) reveals two microsatellites and differential mRNA expression in Penaeus vannamei. Garcia DK, et al. **Mol Mar Biol Biotechnol** 1996 Mar;5(1):71–83

Developmentally regulated expression of the CYP4A genes in the spontaneously hypertensive rat kidney. Kroetz DL, et al. **Mol Pharmacol** 1997 Sep;52(3):362–72

Ontogeny and hormonal basis of male-dominant rat hepatic sulfotransferases. Liu L, et al. **Mol Pharmacol** 1996 Sep; 50(3):565–72

Use of subunit-specific antisense oligodeoxynucleotides to define developmental changes in the properties of N-methyl-D-aspartate receptors. Zhong J, et al. **Mol Pharmacol** 1996 Sep;50(3):631–8

Comparison of the activity of carp and rat beta-actin gene regulatory sequences in tilapia and rainbow trout embryos. Alam MS, et al. **Mol Reprod Dev** 1996 Oct;45(2):117–22

Transcription of Y- and X-linked genes in preimplantation ovine embryos. Bernardi ML, et al. **Mol Reprod Dev** 1996 Oct;45(2):132–8

Changes in the relative abundance of various housekeeping gene transcripts in in vitro-produced early bovine embryos. Bilodeau-Goeseels S, et al. **Mol Reprod Dev** 1997 Aug; 47(4):413–20

Analysis of expression and function of topoisomerase I and II during meiosis in male mice. Cobb J, et al. **Mol Reprod Dev** 1997 Apr;46(4):489–98

Metallothionein gene expression in embryos of the sea urchin Lytechinus pictus. Cserjesi P, et al. **Mol Reprod Dev** 1997 May;47(1):39–46

Role of the first round of DNA replication in reprogramming gene expression in the preimplantation mouse embryo. Davis W Jr, et al. **Mol Reprod Dev** 1997 Aug;47(4):430–4

Expression of myc-family, myc-interacting, and myc-target genes during preimplantation mouse development. Domashenko AD, et al. **Mol Reprod Dev** 1997 May; 47(1):57–65

Ontogeny of temperature-regulated heat shock protein 70 synthesis in preimplantation bovine embryos. Edwards JL, et al. **Mol Reprod Dev** 1997 Sep;48(1):25–33

Identification of maternal transcripts that progressively disappear during the cleavage period of rabbit embryos. Henrion G, et al. **Mol Reprod Dev** 1997 Aug;47(4):353–62

Regulation of CSF-1 receptor expression. Hume DA, et al. **Mol Reprod Dev** 1997 Jan;46(1):46–52; discussion 52–3 (20 ref.)

Developmental expression of insulin-like growth factor II receptor (IGF-IIR) in congenic mouse embryonic lungs: correlation between IGF-IIR mRNA and protein levels and heterochronic lung development. Melnick M, et al. **Mol Reprod Dev** 1996 Jun;44(2):159–70

Molecular cloning and developmental expression of a small ribonuclear protein in the mouse testis. Morales CR, et al. **Mol Reprod Dev** 1997 Apr;46(4):459–70

Activator effect of coinjected enhancers on the muscle-specific expression of promoters in zebrafish embryos. Müller F, et al. **Mol Reprod Dev** 1997 Aug; 47(4):404–12

Repression of MHC class II gene transcription in trophoblast cells by novel single-stranded DNA binding proteins. Murphy SP, et al. **Mol Reprod Dev** 1997 Aug;47(4):390–403

Gonocytes in testes of neonatal rats express the c-kit gene. Orth JM, et al. **Mol Reprod Dev** 1996 Oct;45(2):123–31

Molecular cloning and tissue-specific expression of the mouse homologue of the rat brain 14-3-3 theta protein: characterization of its cellular and developmental pattern of expression in the male germ line. Perego L, et al. **Mol Reprod Dev** 1997 Aug;47(4):370–9

Developmental gene expression of procollagen III in bovine extraembryonic membranes during early pregnancy. Shang W, et al. **Mol Reprod Dev** 1997 Sep;48(1):18–24

Differential expression of bcl-2 and bcl-x during chicken spermatogenesis. Vilagrasa X, et al. **Mol Reprod Dev** 1997 May;47(1):26–9

Requirement for protein synthesis during embryonic genome activation in mice. Wang Q, et al. **Mol Reprod Dev** 1997 Jul;47(3):265–70

Regulation of gene expression in the preimplantation mouse embryo: temporal and spatial patterns of expression of the transcription factor Sp1. Worrad DM, et al. **Mol Reprod Dev** 1997 Mar;46(3):268–77

Expression of c-fos and jun protooncogenes in ovine trophoblasts in relation to interferon-tau expression and early implantation process. Xavier F, et al. **Mol Reprod Dev** 1997 Feb;46(2):127–37

Primary structures of sperm-specific basic nuclear proteins and gene expression in Japanese newt, Cynops pyrrhogaster. Yoshinobu K, et al. **Mol Reprod Dev** 1997 Mar;46(3):243–51

Mouse Leydig insulin-like (Ley I-L) gene: structure and expression during testis and ovary development. Zimmermann S, et al. **Mol Reprod Dev** 1997 May;47(1):30–8

The insulin gene is transcribed in the human thymus and transcription levels correlated with allelic variation at the INS VNTR-IDDM2 susceptibility locus for type 1 diabetes. Pugliese A, et al. **Nat Genet** 1997 Mar;15(3):293–7

Segmental regulation of Hoxb-3 by kreisler. Manzanares M, et al. **Nature** 1997 May 8;387(6629):191–5

wingless refines its own expression domain on the Drosophila wing margin. Rulifson EJ, et al. **Nature** 1996 Nov 7; 384(6604):72–4

Regulation of the expression of the proenkephalin gene in cultured meningeal fibroblasts: opposite effects of alpha 1- and beta 2-adrenoceptors. Hildebrand B, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):404–10

Expression of the tuberous sclerosis 2 gene product, tuberin, in adult and developing nervous system tissues. Geist RT, et al. **Neurobiol Dis** 1996 Apr;3(2):111–20

Expression of neuronal-NOS in developing basal forebrain cholinergic neurons: regulation by NGF. Holtzman DM, et al. **Neurochem Res** 1996 Jul;21(7):861–8

Developmental analysis of factors binding to the mouse 68-kDa neurofilament promoter. Kure R, et al. **Neurochem Res** 1997 May;22(5):555–62

Regulation of synapse structure and function by the Drosophila tumor suppressor gene dlg. Budnik V, et al. **Neuron** 1996 Oct;17(4):627–40

Decreased neurofilament gene expression is an index of selective axonal hypotrophy in ageing. Kuchel GA, et al. **Neuroreport** 1997 Feb 10;8(3):799–805

Reduction of vesicular acetylcholine transporter mRNA in the rat septum following lead exposure. Sun X, et al. **Neuroreport** 1997 Mar 3;8(4):891–4

En-2 regulates the expression of the ligands for Eph type tyrosine kinases in chick embryonic tectum. Shigetani Y, et al. **Neurosci Res** 1997 Mar;27(3):211–7

Neurogranin in the development of the rat telencephalon. Alvarez-Bolado G, et al. **Neuroscience** 1996 Jul; 73(2):565–80

Expression of a developmentally regulated, phosphorylated isoform of microtubule-associated protein 1B in regenerating axons of the sciatic nerve. Bush MS, et al. **Neuroscience** 1996 Jul;73(2):553–63

mCD24 expression in the developing mouse brain and in zones of secondary neurogenesis in the adult. Calaora V, et al. **Neuroscience** 1996 Jul;73(2):581–94

Opposite developmental regulation of P- and Q-type calcium currents during ontogenesis of large diameter mouse sensory neurons. Hilaire C, et al. **Neuroscience** 1996 Dec; 75(4):1219–29

Distribution and postnatal ontogeny of adenosine A2A receptors in rat brain: comparison with dopamine receptors. Johansson B, et al. **Neuroscience** 1997 Oct;80(4):1187–207

Patterns of nitric oxide synthase at the messenger RNA and protein levels during early rat brain development. Keilhoff G, et al. **Neuroscience** 1996 Dec;75(4):1193–201

Agrin gene expression in mouse somatosensory cortical neurons during development in vivo and in cell culture. Li Z, et al. **Neuroscience** 1997 Jul;79(1):191–201

Embryonic expression pattern of H218, a G-protein coupled receptor homolog, suggests roles in early mammalian nervous system development. Maclennan AJ, et al. **Neuroscience** 1997 Jul;79(1):217–24

Increased level of neurokinin-1 tachykinin receptor gene expression during early postnatal development of rat brain. Taoka M, et al. **Neuroscience** 1996 Oct;74(3):845–53

Expression of a developmentally regulated, phosphorylated isoform of microtubule-associated protein 1B in sprouting

and regenerating axons in vitro. Tonge DA, et al. **Neuroscience** 1996 Jul;73(2):541–51

Transient expression of alpha–1B adrenoceptor messenger ribonucleic acids in the rat superior cervical ganglion during postnatal development. Vidovic M, et al. **Neuroscience** 1997 Apr;77(3):841–8

Developmental activation of an episomic hsp70 gene promoter in two–cell mouse embryos by transcription factor Sp1. Bevilacqua A, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1333–8

Control of mouse U1 snRNA gene expression during in vitro differentiation of mouse embryonic stem cells. Cheng Y, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2197–204

Mechanisms of developmental regulation in Trypanosoma brucei: a polypyrimidine tract in the 3'–untranslated region of a surface protein mRNA affects RNA abundance and translation. Hotz HR, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):3017–26

The developmental activation of the chicken lysozyme locus in transgenic mice requires the interaction of a subset of enhancer elements with the promoter. Huber MC, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):2992–3000

Proximal promoter elements of the human zeta–globin gene confer embryonic–specific expression on a linked reporter gene in transgenic mice. Pondel MD, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4158–64

Class III POU genes of zebrafish are predominantly expressed in the central nervous system. Spaniol P, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4874–81

High level expression of the HMGI (Y) gene during embryonic development. Chiappetta G, et al. **Oncogene** 1996 Dec 5;13(11):2439–46

Disruption of the erp/mkp–1 gene does not affect mouse development: normal MAP kinase activity in ERP/MKP–1–deficient fibroblasts. Dorfman K, et al. **Oncogene** 1996 Sep 5;13(5):925–31

The retinoblastoma gene family is differentially expressed during embryogenesis. Jiang Z, et al. **Oncogene** 1997 Apr 17;14(15):1789–97

Mouse Neogenin, a DCC–like molecule, has four splice variants and is expressed widely in the adult mouse and during embryogenesis. Keeling SL, et al. **Oncogene** 1997 Aug 7;15(6):691–700

MAZ, a Myc–associated zinc finger protein, is essential for the ME1a1–mediated expression of the c–myc gene during neuroectodermal differentiation of P19 cells. Komatsu M, et al. **Oncogene** 1997 Sep 4;15(10):1123–31

Developmental regulation of CRD–BP, an RNA–binding protein that stabilizes c–myc mRNA in vitro. Leeds P, et al. **Oncogene** 1997 Mar 20;14(11):1279–86

Understanding cardiac development through the perspective of gene regulation and gene manipulation. Witte DP, et al. **Pediatr Pathol Lab Med** 1996 Mar–Apr;16(2):173–94 (129 ref.)

Expression of hepatocyte growth factor/scatter factor and its receptor, MET, suggests roles in human embryonic organogenesis. Kolatsi–Joannou M, et al. **Pediatr Res** 1997 May;41(5):657–65

Localization and developmental expression of surfactant proteins D and A in the respiratory tract of the mouse. Wong CJ, et al. **Pediatr Res** 1996 Jun;39(6):930–7

Transcriptional expression of a putative tachykinin–like peptide receptor gene from stable fly. Guerrero FD. **Peptides** 1997;18(1):1–5

Ontogeny of proopiomelanocortin posttranslational processing in the ovine fetal pituitary. Saoud CJ, et al. **Peptides** 1996;17(4):649–53

Gene regulation in the Drosophila embryo. Sauer F, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):579–87 (44 ref.)

Cellular localization and developmental regulation of 11 beta–hydroxysteroid dehydrogenase type 1 (11 beta–HSD1) gene expression in the ovine placenta. Yang K, et al. **Placenta** 1997 Sep;18(7):503–9

Regulation of flavonol biosynthesis during anther and pistil development, and during pollen tube growth in Solanum tuberosum. van Eldik GJ, et al. **Plant J** 1997 Jan; 11(1):105–13

Developmental regulation of two tomato lipoxygenase promoters in transgenic tobacco and tomato. Beaudoin N, et al. **Plant Mol Biol** 1997 Mar;33(5):835–46

Cloning and characterization of tomato leaf senescence–related cDNAs. John I, et al. **Plant Mol Biol** 1997 Mar;33(4):641–51

Developmental and transgenic analysis of two tomato fruit enhanced genes. Santino CG, et al. **Plant Mol Biol** 1997 Feb;33(3):405–16

New potential markers of in vitro tomato morphogenesis identified by mRNA differential display. Torelli A, et al. **Plant Mol Biol** 1996 Dec;32(5):891–900

A novel glycine–rich/hydrophobic 16 kDa polypeptide gene from tobacco: similarity to proline–rich protein genes and its wound–inducible and developmentally regulated expression. Yasuda E, et al. **Plant Mol Biol** 1997 Mar; 33(4):667–78

Developmental regulation of pyrroline–5–carboxylate reductase gene expression in Arabidopsis. Hua XJ, et al. **Plant Physiol** 1997 Aug;114(4):1215–24

Tissue–specific and developmental regulation of cotton gene FbL2A. Demonstration of promoter activity in transgenic plants. Rinehart JA, et al. **Plant Physiol** 1996 Nov; 112(3):1331–41

Changes in the activity and mRNA of cinnamyl alcohol dehydrogenase during tracheary element differentiation in zinnia. Sato Y, et al. **Plant Physiol** 1997 Feb;113(2):425–30

Genetic and developmental control of nuclear accumulation of COP1, a repressor of photomorphogenesis in Arabidopsis. von Arnim AG, et al. **Plant Physiol** 1997 Jul; 114(3):779–88

Non–receptor tyrosine kinases in mammalian neurogenesis. Aizawa S, et al. **Princess Takamatsu Symp** 1994;24:323–37 (67 ref.)

Transgenic mice containing the human erythropoietin receptor gene exhibit correct hematopoietic and neural expression. Liu C, et al. **Proc Assoc Am Physicians** 1996 Nov;108(6):449–54

Immature epithelial Na+ channel expression is one of the pathogenetic mechanisms leading to human neonatal respiratory distress syndrome. O'Brodovich HM. **Proc Assoc Am Physicians** 1996 Sep;108(5):345–55 (86 ref.)

Both apolipoprotein E and A–I genes are present in a nonmammalian vertebrate and are highly expressed during embryonic development. Babin PJ, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8622–7

Identification of novel genes in Drosophila reveals the complex regulation of early gene activity in the mesoderm. Casal J, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10327–32

NRF2, a member of the NFE2 family of transcription factors, is not essential for murine erythropoiesis, growth, and development. Chan K, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13943–8

Fertilization–independent seed development in Arabidopsis thaliana. Chaudhury AM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4223–8

Transcriptional analysis of nucleolar dominance in polyploid plants: biased expression/silencing of progenitor rRNA genes is developmentally regulated in Brassica. Chen ZJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3442–7

A human homologue of the Drosophila sex determination factor transformer–2 has conserved splicing regulatory functions. Dauwalder B, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9004–9

A novel bHLH–PAS factor with close sequence similarity to hypoxia–inducible factor 1alpha regulates the VEGF expression and is potentially involved in lung and vascular development. Ema M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4273–8

A steroid–triggered switch in E74 transcription factor isoforms regulates the timing of secondary–response gene expression. Fletcher JC, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4582–6

rax, a novel paired–type homeobox gene, shows expression in the anterior neural fold and developing retina. Furukawa T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3088–93

Functional dissection of the Drosophila enhancer of split protein, a suppressor of neurogenesis. Giebel B, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6250–4

Multiple potential germ–line helicases are components of the germ–line–specific P granules of Caenorhabditis elegans. Gruidl ME, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13837–42

Targeted gene expression without a tissue–specific promoter: creating mosaic embryos using laser–induced single–cell heat shock. Halfon MS, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6255–60

P element insertion–dependent gene activation in the Drosophila eye. Hay BA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5195–200

A binding site for Pax proteins regulates expression of the gene for the neural cell adhesion molecule in the embryonic spinal cord. Holst BD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1465–70

Barx2, a new homeobox gene of the Bar class, is expressed in neural and craniofacial structures during development. Jones FS, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2632–7

Nuclear LIM interactor, a rhombotin and LIM homeodomain interacting protein, is expressed early in neuronal development. Jurata LW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11693–8

myb provides an essential function during Drosophila development. Katzen AL, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13955–60

Developmental expression of synthetic cis–regulatory systems composed of spatial control elements from two different genes. Kirchhamer CV, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13849–54

The winged helix transcription factor HFH–4 is expressed during choroid plexus epithelial development in the mouse embryo. Lim L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3094–9

Mutation of gene–proximal regulatory elements disrupts human epsilon–, gamma–, and beta–globin expression in yeast artificial chromosome transgenic mice. Liu Q, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):169–74

Developmental regulation and the role of insulin and insulin receptor in metanephrogenesis. Liu ZZ, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6758–63

A "knockdown" mutation created by cis–element gene targeting reveals the dependence of erythroid cell maturation on the level of transcription factor GATA–1. McDevitt MA, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6781–5

Obese gene expression at in vivo levels by fat pads derived from s.c. implanted 3T3–F442A preadipocytes [see comments] Mandrup S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4300–5. Comment in: Proc Natl Acad Sci U S A 1997 Apr 29;94(9):4242–5.

Promoter analysis in living zebrafish embryos identifies a cis–acting motif required for neuronal expression of GATA–2. Meng A, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6267–72

Bioactivation of Müllerian inhibiting substance during gonadal development by a kex2/subtilisin–like endoprotease. Nachtigal MW, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7711–6

Hematopoiesis in the fetal liver is impaired by targeted mutagenesis of a gene encoding a non–DNA binding subunit of the transcription factor, polyomavirus enhancer binding protein 2/core binding factor. Niki M, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5697–702

GATA–1 transcription is controlled by distinct regulatory mechanisms during primitive and definitive erythropoiesis. Onodera K, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4487–92

Glucose transporter GLUT3: ontogeny, targeting, and role in the mouse blastocyst. Pantaleon M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3795–800

Functional growth hormone (GH) receptors and GH are expressed by preimplantation mouse embryos: a role for GH in early embryogenesis? Pantaleon M, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5125–30

Identification of genes required for Drosophila eye development using a phenotypic enhancer–trap. Pignoni F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):9220–5

Function and regulation of heat shock factor 2 during mouse embryogenesis. Rallu M, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2392–7

Relax promotes ectopic neuronal differentiation in Xenopus embryos. Ravassard P, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8602–5

A modular misexpression screen in Drosophila detecting tissue–specific phenotypes. Rørth P. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12418–22

Uniform vascular–endothelial–cell–specific gene expression in both embryonic and adult transgenic mice. Schlaeger TM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1; 94(7):3058–63

Inactivation of the survival motor neuron gene, a candidate gene for human spinal muscular atrophy, leads to massive cell death in early mouse embryos. Schrank B, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9920–5

Molecular characterization of Br–cadherin, a developmentally regulated, brain–specific cadherin. Selig S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2398–403

Combinations of closely situated cis–acting elements determine tissue–specific patterns and anterior extent of early Hoxc8 expression. Shashikant CS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12364–9

Characterization of avian T–cell receptor gamma genes. Six A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15329–34

Fibroblast growth factor 2 can replace ectodermal signaling for feather development. Song H, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10246–9

P–OTX: a PIT–1–interacting homeodomain factor expressed during anterior pituitary gland development. Szeto DP, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7706–10

A single zinc finger motif in the silencing factor REST represses the neural–specific type II sodium channel promoter. Tapia–Ramírez J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1177–82

Tissue–specific knockout of the mouse Pig–a gene reveals important roles for GPI–anchored proteins in skin development. Tarutani M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7400–5

Hedgehog signaling regulates transcription through cubitus interruptus, a sequence–specific DNA binding protein. Von Ohlen T, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2404–9

Epidermal muscle attachment site–specific target gene expression and interference with myotube guidance in response to ectopic stripe expression in the developing Drosophila epidermis. Vorbrüggen G, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8606–11

Chondrocytes as a specific target of ectopic Fos expression in early development. Watanabe H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3994–9

The proliferation potential protein–related (P2P–R) gene with domains encoding heterogeneous nuclear ribonucleoprotein association and Rb1 binding shows repressed expression during terminal differentiation. Witte MM, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1212–7

Disruption of overlapping transcripts in the ROSA beta geo 26 gene trap strain leads to widespread expression of beta–galactosidase in mouse embryos and hematopoietic cells. Zambrowicz BP, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3789–94

Cooperative functions of the reaper and head involution defective genes in the programmed cell death of Drosophila central nervous system midline cells. Zhou L, et al.

Proc Natl Acad Sci U S A 1997 May 13;94(10):5131–6
Dietary regulation of the renal sodium–phosphate (Na+/Pi) transporter during early ontogeny in the rat. Taufiq S, et al. **Proc Soc Exp Biol Med** 1997 Jul;215(3):281–9
Functional cloning of candidate genes that regulate Purkinje cell–specific gene expression. Sanlioglu–Crisman S, et al. **Prog Brain Res** 1997;114:3–19
Translational control by polyadenylation during early development. Osborne HB, et al. **Prog Mol Subcell Biol** 1997;18:173–98 (100 ref.)
Changes in gene structure and regulation of E–cadherin during epithelial development, differentiation, and disease. Jankowski JA, et al. **Prog Nucleic Acid Res Mol Biol** 1997; 57:187–215 (192 ref.)
Molecular biology of axon–glia interactions in the peripheral nervous system. Taylor V, et al.
Prog Nucleic Acid Res Mol Biol 1997;56:225–56 (221 ref.)
The lipocalin Xlcpl1 expressed in the neural plate of Xenopus laevis embryos is a secreted retinaldehyde binding protein. Lepperdinger G, et al. **Protein Sci** 1996 Jul;5(7):1250–60
SAM as a protein interaction domain involved in developmental regulation. Schultz J, et al. **Protein Sci** 1997 Jan;6(1):249–53
Developmental gene expression of gastrin receptor in rat stomach. Wang HY, et al. **Regul Pept** 1997 Jun 18; 70(2–3):183–9
Chromatin and gene regulation at the onset of embryonic development. Wolffe AP. **Reprod Nutr Dev** 1996; 36(6):581–606 (235 ref.)
Localization and mapping of the main gene responsible for fast development in Drosophila melanogaster. Corrêa SA, et al. **Rev Bras Biol** 1995 Dec;55 Suppl 1:89–96
Visualization of gene expression in living adult Drosophila. Calleja M, et al. **Science** 1996 Oct 11;274(5285):252–5
Drosophila mitotic domain boundaries as cell fate boundaries. Cambridge SB, et al. **Science** 1997 Aug 8;277(5327):825–8
Altered neural cell fates and medulloblastoma in mouse patched mutants. Goodrich LV, et al. **Science** 1997 Aug 22;277(5329):1109–13
Control of vertebrate left–right asymmetry by a snail–related zinc finger gene [see comments] Isaac A, et al. **Science** 1997 Feb 28;275(5304):1301–4. Comment in: Science 1997 Feb 28;275(5304):1280.
Developing a new view of evolution [news] [see comments] Pennisi E, et al. **Science** 1997 Jul 4;277(5322):34–7. Comment in: Science 1997 Sep 5;277(5331):1420.
Tracing backbone evolution through a tunicate's lost tail [news; comment] Pennisi E. **Science** 1996 Nov 15; 274(5290):1082–3. Comment on: Science 1996 Nov 15;274(5290):1205–8.
Left–right asymmetry [comment] Robertson EJ. **Science** 1997 Feb 28;275(5304):1280. Comment on: Science 1997 Feb 28;275(5304):1301–4.
A "master control" gene for fly eyes shares its power [news] Roush W. **Science** 1997 Jan 31;275(5300):618–9
Requirement of the Manx gene for expression of chordate features in a tailless ascidian larva [see comments] Swalla BJ, et al. **Science** 1996 Nov 15;274(5290):1205–8. Comment in: Science 1996 Nov 15;274(5290):1082–3.
Coordination of Drosophila metamorphosis by two ecdysone–induced nuclear receptors. White KP, et al. **Science** 1997 Apr 4;276(5309):114–7
Molecular genetic characterization and comparative mapping of the human PCP4 gene. Cabin DE, et al. **Somat Cell Mol Genet** 1996 May;22(3):167–75
Expression of cytochromes P450aldo and P45011 beta in rat adrenal gland during late gestational and neonatal stages. Mitani F, et al. **Steroids** 1997 Jan;62(1):57–61
The multiple murine 3 beta–hydroxysteroid dehydrogenase isoforms: structure, function, and tissue– and developmentally specific expression. Payne AH, et al. **Steroids** 1997 Jan;62(1):169–75 (39 ref.)
FLP–mediated site–specific recombination in microinjected murine zygotes. Ludwig DL, et al. **Transgenic Res** 1996 Nov;5(6):385–95
Cell–type specific activation of the polyomavirus F9–1 regulatory region in transgenic mice. Neubauer A, et al. **Transgenic Res** 1996 Nov;5(6):373–83
High transgene activity in the yolk syncytial layer affects quantitative transient expression assays in zebrafish Danio rerio) embryos. Williams DW, et al. **Transgenic Res** 1996 Nov;5(6):433–42
Proline–rich–protein promoters direct LacZ expression to the granular convoluted tubular cells of the submandibular gland in adult transgenic mice. Zhuo L, et al. **Transgenic Res** 1997 Jan;6(1):19–25
Molecular determinants of mammmalian sex. Werner MH, et al. **Trends Biochem Sci** 1996 Aug;21(8):302–8 (49 ref.)
It's a knockout! Anagnostopoulos AV. **Trends Genet** 1997 Sep;13(9):377
Double in situ hybridization on mouse embryos for detection of overlapping regions of gene expression. Bueno D, et al. **Trends Genet** 1996 Oct;12(10):385–7
Evolutionary origins and maintenance of redundant gene expression during metazoan development. Cooke J, et al. **Trends Genet** 1997 Sep;13(9):360–4 (44 ref.)
The world according to hedgehog. Hammerschmidt M, et al. **Trends Genet** 1997 Jan;13(1):14–21 (93 ref.)
Exploring and explaining epigenetic effects [editorial; comment] Henikoff S, et al. **Trends Genet** 1997 Aug; 13(8):293–5. Comment on: Trends Genet 1997 Aug;13(8):296–301. Comment on: Trends Genet 1997 Aug;13(8):302–8. Comment on: Trends Genet 1997 Aug;13(8):308–13. Comment on: Trends Genet 1997 Aug;13(8):319–23. Comment on: Trends Genet 1997 Aug;13(8):323–9. Comment on: Trends Genet 1997 Aug;13(8):330–4. Comment on: Trends Genet 1997 Aug;13(8):335–40.
Unity or diversity? Holland PW. **Trends Genet** 1996 Aug; 12(8):324
The vertebrate organizer: structure and molecules. Lemaire P, et al. **Trends Genet** 1996 Dec;12(12):525–31 (60 ref.)
Facing death in the fly: genetic analysis of apoptosis in Drosophila. McCall K, et al. **Trends Genet** 1997 Jun; 13(6):222–6 (54 ref.)
The Eph receptor family: axonal guidance by contact repulsion. Orioli D, et al. **Trends Genet** 1997 Sep; 13(9):354–9 (49 ref.)
T–box family reunion. Papaioannou VE. **Trends Genet** 1997 Jun;13(6):212–3 (20 ref.)
From gradients to stripes in Drosophila embryogenesis: filling in the gaps. Rivera–Pomar R, et al. **Trends Genet** 1996 Nov; 12(11):478–83 (48 ref.)
Transgenic frogs and FGF signalling in early development. Smith JC. **Trends Genet** 1996 Nov;12(11):439–40 (35 ref.)
One hundred years of positional information. Wolpert L. **Trends Genet** 1996 Sep;12(9):359–64 (27 ref.)
The complexities of beta globin gene regulation. Wood WG. **Trends Genet** 1996 Jun;12(6):204–6 (21 ref.)
Cytosine methylation and the ecology of intragenomic parasites [see comments] Yoder JA, et al. **Trends Genet** 1997 Aug;13(8):335–40 (56 ref.). Comment in: Trends Genet 1997 Aug;13(8):293–5.
Ontogeny of preproenkephalin mRNA expression in the rat retina. Isayama T, et al. **Vis Neurosci** 1996 Jul–Aug; 13(4):695–704
[A study of the expression of sarcoplasmic reticulum calcium ATP–ase gene in the left ventricle of the sheep's fetus submitted to chronic increased afterload in utero] Bonnet N, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):699–705 (Eng. Abstr.) **(Fre)**
[Muscle specific gene expression during embryonal development] Krempler A, et al.
DTW Dtsch Tierarztl Wochenschr 1996 Oct;103(10):408–13 (65 ref.) (Eng. Abstr.) **(Ger)**
[Analysis of gene Fringe related to neurogenesis using chick embryo] Sakamoto K, et al. **Kokubyo Gakkai Zasshi** 1997 Mar;64(1):160 **(Jpn)**
[Developmental regulation of V(D)J type recombination in the antigen receptor genes in lymphocytes] Sakano H. **Seikagaku** 1996 Aug;68(8):1470–4 (18 ref.) **(Jpn)**
[Gene expression and the regulation in brain (discussion)] Hotta Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):589–607 **(Jpn)**
[Transcription factors involved in histone gene regulation] Iwabuchi M. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1226–36 (35 ref.) **(Jpn)**
[Involvement of SOX proteins in activation of crystallin genes and lens development] Kamachi Y.
Tanpakushitsu Kakusan Koso 1996 Jun;41(8 Suppl):1113–23 (32 ref.) **(Jpn)**
[Involvement of maf gene family in crystallin gene regulation] Ogino H, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1050–7 (34 ref.) **(Jpn)**
[Developmental expression patterns and target assignment of the bombyx fork head and POU–M1 genes] Suzuki Y, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1083–7 (25 ref.) **(Jpn)**
[Study of transcription of the transposable element burdock at the different stages of Drosophila development] Ponomarenko NA, et al. **Dokl Akad Nauk** 1997 Jul; 355(2):266–8 **(Rus)**
[Cloning genes, specifically expressed in the cerebral cortex and cerebellum of adult rats] Akopian AN, et al. **Genetika** 1996 Jul;32(7):879–85 (Eng. Abstr.) **(Rus)**
[Cloning of genes, differentially expressed in the cerebellum during postnatal rat development] Akopian AN, et al. **Genetika** 1996 Jul;32(7):886–95 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Glucocorticoid regulation of epithelial sodium channel genes in human fetal lung. Venkatesh VC, et al.
Am J Physiol 1997 Jul;273(1 Pt 1):L227–33
Re–emergence of a fetal pattern of insulin–like growth factor expression during hyperoxic rat lung injury.
Veness–Meehan KA, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):538–48
Regulation of gene expression in cultured embryonic mouse mandibular mesenchyme by serotonin antagonists. Moiseiwitsch JR, et al. **Anat Embryol (Berl)** 1997 Jan; 195(1):71–8
Nutrient regulation of the intestinal Na+/glucose co–transporter (SGLT1) gene expression. Dyer J, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):624–9
Expression of the chicken progesterone receptor forms A and B is differentially regulated by estrogen in vivo. Syvälä H, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):573–6
Correlation between loss of middle ear bones and altered goosecoid gene expression in the branchial region following retinoic acid treatment of mouse embryos in vivo. Zhu CC, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):748–53
Lung CuZn–superoxide dismutase and catalase gene expression in premature rabbits treated intratracheally with antioxidant–surfactant liposomes. Walther FJ, et al. **Biochem Mol Med** 1996 Dec;59(2):169–73
Effect of testosterone on maturational gonadotropin subunit messenger ribonucleic acid levels in the goldfish pituitary. Huggard D, et al. **Biol Reprod** 1996 Jun;54(6):1184–91
Cryptic brain cell injury caused by fetal nicotine exposure is associated with persistent elevations of c–fos protooncogene expression. Slotkin TA, et al. **Brain Res** 1997 Mar 7;750(1–2):180–8
Chronic nicotine treatment delays the developmental increase in brain muscarinic receptors in rat neonate. Zhu J, et al. **Brain Res** 1996 Sep 2;732(1–2):257–60
Sonic hedgehog participates in craniofacial morphogenesis and is down–regulated by teratogenic doses of retinoic acid. Helms JA, et al. **Dev Biol** 1997 Jul 1;187(1):25–35
Expression of the beta 4 integrin subunit in the mouse heart during embryonic development: retinoic acid advances beta 4 expression. Hierck BP, et al. **Dev Dyn** 1996 Sep; 207(1):89–103
Arsenic–induced alterations in embryonic transcription factor gene expression: implications for abnormal neural development. Wlodraczyk B, et al. **Dev Genet** 1996; 18(4):306–15
Effects of all–trans–retinoic acid on skeletal pattern, 5'HoxD gene expression, and RAR beta 2/beta 4 promoter activity in embryonic mouse limbs. Wood HB, et al. **Dev Genet** 1996;19(1):74–84
A slow sustained increase in cytosolic Ca2+ levels mediates stalk gene induction by differentiation inducing factor in Dictyostelium. Schaap P, et al. **EMBO J** 1996 Oct 1; 15(19):5177–83
Inducibility of metallothionein mRNA expression and cadmium tolerance in larvae of a marine teleost, the turbot (Scophthalmus maximus). George SG, et al.
Fundam Appl Toxicol 1996 Sep;33(1):91–9
Calcitonin gene–related peptide and ATP induce immediate early gene expression in cultured rat microglial cells. Priller J, et al. **Glia** 1995 Dec;15(4):447–57
Differential effects of maternal ovine placental lactogen and growth hormone (GH) administration on GH receptor, insulin–like growth factor (IGF)–1 and IGF binding protein–3 gene expression in the pregnant and fetal sheep. Currie MJ, et al. **Growth Regul** 1996 Sep;6(3):123–9
Discordant Regulation of insulin–like growth factor–II and insulin–like growth factor binding protein–2 gene expression in a rat beta–cell line. De W, et al.
Growth Regul 1996 Jun;6(2):83–7
Differential expression of microtubule associated protein MAP–2 in developing cochleovestibular neurons and its modulation by neurotrophin–3. San José I, et al.
Int J Dev Biol 1997 Jun;41(3):509–19
Expression of IGF–II and H19 mRNA in the neonatal rat during normal maturation and after dexamethasone administration. Senior PV, et al. **J Mol Endocrinol** 1996 Dec;17(3):217–23
Effects of perinatal exposure to delta 9–tetrahydrocannabinol on the fetal and early postnatal development of tyrosine hydroxylase–containing neurons in rat brain. Bonnin A, et al. **J Mol Neurosci** 1996 Winter;7(4):291–308
Regulation of actin and its mRNA by thyroid hormones in cultures of fetal human brain during second trimester of gestation. Pal U, et al. **J Neurochem** 1997 Sep;69(3):1170–6
Expression of contact, a new zebrafish DVR member, marks mesenchymal cell lineages in the developing pectoral fins and head and is regulated by retinoic acid. Bruneau S, et al. **Mech Dev** 1997 Jul;65(1–2):163–73
Specific craniofacial cartilage dysmorphogenesis coincides with a loss of dlx gene expression in retinoic acid–treated zebrafish embryos. Ellies DL, et al. **Mech Dev** 1997 Jan; 61(1–2):23–36
'Regeneration' of wing bud stumps of chick embryos and reactivation of Msx–1 and Shh expression in response to FGF–4 and ridge signals. Kostakopoulou K, et al.
Mech Dev 1996 Apr;55(2):119–31
A novel MAP kinase phosphatase is localised in the branchial arch region and tail tip of Xenopus embryos and is inducible by retinoic acid. Mason C, et al. **Mech Dev** 1996 Apr; 55(2):133–44
Restricted expression and retinoic acid–induced downregulation of the retinaldehyde dehydrogenase type 2 (RALDH–2) gene during mouse development. Niederreither K, et al. **Mech Dev** 1997 Feb;62(1):67–78
Effects of thyroid hormone on the androgenic expression of KAP gene in mouse kidney. Solé E, et al.
Mol Cell Endocrinol 1996 May 31;119(2):147–59
Retinoic acid induces a tissue–specific deletion in the expression domain of Otx2. Clotman F, et al.
Neurotoxicol Teratol 1997 May–Jun;19(3):163–9
Reduction of choline acetyltransferase mRNA in the septum of developing rat exposed to inorganic lead. Sun X, et al. **Neurotoxicology** 1997;18(1):201–7
Gestational exposure to ethanol suppresses msx2 expression in developing mouse embryos. Rifas L, et al.
Proc Natl Acad Sci U S A 1997 Jul 8;94(14):7549–54
Cocaine selectively alters neurotransmitter receptor mRNAs in mouse embryos. Mackler SA, et al. **Reprod Toxicol** 1996 Jan–Feb;10(1):37–42
Effects of TCDD on Ah receptor, ARNT, EGF, and TGF–alpha expression in embryonic mouse urinary tract. Bryant PL, et al. **Teratology** 1997 May;55(5):326–37

GENE EXPRESSION REGULATION, DEVELOPMENTAL

GENETICS

Differential regulation of the expression of interleukin-2 receptor gamma-chain during the in vitro differentiation of human myeloid cells. Morrone G, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):909-14

Characterization of the rat vasoactive intestinal polypeptide receptor gene 5' region. Pei L, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):719-23

The embryonic RNA helicase gene (ERH): a new member of the DEAD box family of RNA helicases. Sowden J, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):839-46

Identification of a receptor-type protein tyrosine phosphatase expressed in postmitotic maturing neurons: its structure and expression in the central nervous system. Tagawa M, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):865-71

Induction of glyoxylate cycle expression in Caenorhabditis elegans: a fasting response throughout larval development. Liu F, et al. **Biochemistry** 1997 Jan 7;36(1):255-60

Translational regulation of maternal mRNA. Hake LE, et al. **Biochim Biophys Acta** 1997 Feb 22;1332(1):M31-8 (45 ref.)

Expression of different forms of the heat-shock factor during the life cycle of the parasitic helminth Schistosoma mansoni. Levy-Holtzman R, et al. **Biochim Biophys Acta** 1996 Oct 7;1317(1):1-4

The organizer formation: two molecules are better than one. Lombardo A. **Bioessays** 1996 Apr;18(4):267-70 (47 ref.)

Pattern formation: regional specification in the early C. elegans embryo. Schnabel R. **Bioessays** 1996 Jul;18(7):591-4

A comprehensive survey of the cadherins expressed in the testes of fetal, immature, and adult mice utilizing the polymerase chain reaction. Munro SB, et al. **Biol Reprod** 1996 Oct;55(4):822-7

Estrogen receptor messenger ribonucleic acid changes during Leydig cell development. Zhai J, et al. **Biol Reprod** 1996 Oct;55(4):782-8

Epigenetic programming of developmental genome rearrangements in ciliates. Meyer E, et al. **Cell** 1996 Oct 4;87(1):9-12 (17 ref.)

Differential mRNA regulation of integrin subunits alpha V, beta 1, beta 3, and beta 5 during mouse embryonic organogenesis. Yamada S, et al. **Cell Adhes Commun** 1995 Nov;3(4):311-25

Differential expression of the regularly spliced wild-type p53 and its COOH-terminal alternatively spliced form during epidermal differentiation. Rehberger PA, et al. **Cell Growth Differ** 1997 Aug;8(8):851-60

Differential regulation of the Wilms' tumor gene, WT1, during differentiation of embryonal carcinoma and embryonic stem cells. Scharnhorst V, et al. **Cell Growth Differ** 1997 Feb;8(2):133-43

Regulation of amelogenin gene expression. Gibson CW, et al. **Ciba Found Symp** 1997;205:187-97; discussion 197-9

Lens induction by Pax-6 in Xenopus laevis. Altmann CR, et al. **Dev Biol** 1997 May 1;185(1):119-23

Patterns of distal-less gene expression and inductive interactions in the head of the direct developing frog Eleutherodactylus coqui. Fang H, et al. **Dev Biol** 1996 Oct 10;179(1):160-72

Regionalized transcriptional domains of myosin light chain 3f transgenes in the embryonic mouse heart: morphogenetic implications. Franco D, et al. **Dev Biol** 1997 Aug 1; 188(1):17-33

Alternative splicing of the Endo16 transcript produces differentially expressed mRNAs during sea urchin gastrulation. Godin RE, et al. **Dev Biol** 1996 Oct 10; 179(1):148-59

tbx6, a Brachyury-related gene expressed by ventral mesendodermal precursors in the zebrafish embryo. Hug B, et al. **Dev Biol** 1997 Mar 1;183(1):61-73

Involvement of the Bombyx Scr gene in development of the embryonic silk gland. Kokubo H, et al. **Dev Biol** 1997 Jun 1;186(1):46-57

Temporal and spatial control of murine GATA-3 transcription by promoter-proximal regulatory elements. Lieuw KH, et al. **Dev Biol** 1997 Aug 1;188(1):1-16

RNA transport to the vegetal cortex of Xenopus oocytes. Zhou Y, et al. **Dev Biol** 1996 Oct 10;179(1):173-83

The hardwiring of development: organization and function of genomic regulatory systems. Arnone MI, et al. **Development** 1997 May;124(10):1851-64 (119 ref.)

Switching the in vivo specificity of a minimal Hox-responsive element. Chan SK, et al. **Development** 1997 May;124(10):2007-14

Structure, function, and expression of SEL-1, a negative regulator of LIN-12 and GLP-1 in C. elegans. Grant B, et al. **Development** 1997 Feb;124(3):637-44

Hox gene induction in the neural tube depends on three parameters: competence, signal supply and paralogue group. Grapin-Botton A, et al. **Development** 1997 Feb; 124(4):849-59

Transcriptional regulation of Notch and Delta: requirement for neuroblast segregation in Drosophila. Seugnet L, et al. **Development** 1997 May;124(10):2015-25

Transgenic expression in the liver of truncated Met blocks apoptosis and permits immortalization of hepatocytes. Amicone L, et al. **EMBO J** 1997 Feb 3;16(3):495-503

D-mef2 is a target for Tinman activation during Drosophila heart development. Gajewski K, et al. **EMBO J** 1997 Feb 3;16(3):515-22

Sek4 and Nuk receptors cooperate in guidance of commissural axons and in palate formation. Orioli D, et al. **EMBO J** 1996 Nov 15;15(22):6035-49

A model for extradenticle function as a switch that changes HOX proteins from repressors to activators. Pinsonneault J, et al. **EMBO J** 1997 Apr 15;16(8):2032-42

Maternal and paternal genomes function independently in mouse ova in establishing expression of the imprinted genes Snrpn and Igf2r: no evidence for allelic trans-sensing and counting mechanisms. Szabó PE, et al. **EMBO J** 1996 Nov 15;15(22):6018-25

Expression of prolactin gene in mouse placenta during late pregnancy: detection of mRNA and its translation product. Harigaya T, et al. **Endocr J** 1997 Feb;44(1):155-61

The regulation of the prolactin receptor gene expression in the mammary gland of early pregnant mouse. Mizoguchi Y, et al. **Endocr J** 1997 Feb;44(1):53-8

Quantitative RT-PCR for inhibin/activin subunits: measurements of rat hypothalamic and ovarian inhibin/activin subunit mRNAs during the estrous cycle. Murata T, et al. **Endocr J** 1997 Feb;44(1):35-42

Role of Pit-1 in the gene expression of growth hormone, prolactin, and thyrotropin. Cohen LE, et al. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):523-40 (94 ref.)

Placenta-specific expression of the rat growth hormone-releasing hormone gene promoter in transgenic mice. Nogués N, et al. **Endocrinology** 1997 Aug; 138(8):3222-7

Lipid body lipoxygenase characterized by protein fragmentation, cDNA sequence and very early expression of the enzyme during germination of cucumber seeds. Höhne M, et al. **Eur J Biochem** 1996 Oct 1;241(1):6-11

Simultaneous detection of multiple gene expression in mouse and human individual preimplantation embryos. Liu HC, et al. **Fertil Steril** 1997 Apr;67(4):733-41

Isolation of a full-length human WNT7A gene implicated in limb development and cell transformation, and mapping to chromosome 3p25. Bui TD, et al. **Gene** 1997 Apr 11; 189(1):25-9

Elevated levels of cyclin D1 mRNA in the undifferentiated chick retina. Godbout R, et al. **Gene** 1996 Dec 5; 182(1-2):111-5

Variation in the methylation profile and structure of Pax3 and Pax7 among different mouse strains and during expression. Kay PH, et al. **Gene** 1997 Jan 3;184(1):45-53

Interference of Myb transactivation activity by a conditional dominant negative protein: functional interference in a cytotoxic T-cell line results in G1 arrest. Lyon JJ, et al. **Gene** 1996 Dec 5;182(1-2):123-8

Sequence and functional analysis of an upstream regulatory region of human HOXA7 gene. Min W, et al. **Gene** 1996 Dec 5;182(1-2):1-6

Toxoplasma gondii expresses two distinct lactate dehydrogenase homologous genes during its life cycle in intermediate hosts. Yang S, et al. **Gene** 1997 Jan 3; 184(1):1-12

Expression of a dominant-negative Wnt blocks induction of MyoD in Xenopus embryos. Hoppler S, et al. **Genes Dev** 1996 Nov 1;10(21):2805-17

Mutations in Drosophila DP and E2F distinguish G1-S progression from an associated transcriptional program. Royzman I, et al. **Genes Dev** 1997 Aug 1;11(15):1999-2011

Detection of cone alpha transducin mRNA in human fetal cochlea: negative mutation analysis in Usher syndrome. Magovcevic I, et al. **Hear Res** 1996 Sep 15;99(1-2):7-12

Regionalized expression of Nkx5-1, Nkx5-2, Pax2 and sek genes during mouse inner ear development. Rinkwitz-Brandt S, et al. **Hear Res** 1996 Sep 15; 99(1-2):129-38

Effect of different serum concentrations of growth hormone-binding protein (GHBP) on the regulation of GH receptor/GHBP gene transcription in a human hepatoma cell line. Mullis PE, et al. **Horm Res** 1997;47(2):73-80

Functional analysis of Drosophila developmental genes instrumental in tumor suppression. Gateff E, et al. **In Vivo** 1996 Mar-Apr;10(2):211-5 (29 ref.)

Spatial expression of alpha and beta tubulin genes in the late embryogenesis of the sea urchin Paracentrotus lividus. Casano C, et al. **Int J Dev Biol** 1996 Oct;40(5):1033-41

Combinatorial expression patterns of the connexins 26, 32, and 43 during development, homeostasis, and regeneration of rat teeth. Fried K, et al. **Int J Dev Biol** 1996 Oct; 40(5):985-95

Catalytic and non-catalytic forms of the neurotrophin receptor xTrkB mRNA are expressed in a pseudo-segmental manner within the early Xenopus central nervous system. Islam N, et al. **Int J Dev Biol** 1996 Oct; 40(5):973-83

Expression of Hoxb-1 during gastrulation and segmentation stages of carp (Cyprinus carpio). Stevens CJ, et al. **Int J Dev Biol** 1996 Apr;40(2):463-70

Expression of axial and sonic hedgehog in wildtype and midline defective zebrafish embryos. Strähle U, et al. **Int J Dev Biol** 1996 Oct;40(5):929-40

Gene expression of transforming growth factor-alpha in human endometrium during decidualization. Taga M, et al. **J Assist Reprod Genet** 1997 Apr;14(4):218-22

Identification and characterization of a novel, intracellular isoform of fibroblast growth factor receptor-1(FGFR-1). Maher PA. **J Cell Physiol** 1996 Nov;169(2):380-90

The gelsolin-related flightless I protein is required for actin distribution during cellularisation in Drosophila. Straub KL, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):263-70

Cloning, characterization, and heterologous expression of exon-4-containing amelogenin mRNAs. Hu CC, et al. **J Dent Res** 1997 Feb;76(2):641-7

Developmental expression of interstitial collagen genes in fetal bladders. Koo HP, et al. **J Urol** 1997 Sep;158(3 Pt 1):954-61

Two enhancer domains control early aspects of the complex expression pattern of Msx1. MacKenzie A, et al. **Mech Dev** 1997 Feb;62(1):29-40

Embryonic expression of eph signalling factors in Xenopus. Weinstein DC, et al. **Mech Dev** 1996 Jul;57(2):133-44

E.B. Wilson Award Lecture, 1996. Differential gene action. Brown DD. **Mol Biol Cell** 1997 Apr;8(4):547-53

Involvement of AP-2 in regulation of the R-FABP gene in the developing chick retina. Bisgrove DA, et al. **Mol Cell Biol** 1997 Oct;17(10):5935-45

E2a-Pbx1 induces aberrant expression of tissue-specific and developmentally regulated genes when expressed in NIH 3T3 fibroblasts. Fu X, et al. **Mol Cell Biol** 1997 Mar; 17(3):1503-12

Elements in the 3' untranslated region of procyclin mRNA regulate expression in insect forms of Trypanosoma brucei by modulating RNA stability and translation. Furger A, et al. **Mol Cell Biol** 1997 Aug;17(8):4372-80

Regulation of Pdha-2 expression is mediated by proximal promoter sequences and CpG methylation. Iannello RC, et al. **Mol Cell Biol** 1997 Feb;17(2):612-9

A chimeric enhancer-of-split transcriptional activator drives neural development and achaete-scute expression. Jiménez G, et al. **Mol Cell Biol** 1997 Aug;17(8):4355-62

Sheltering of gamma-globin expression from position effects requires both an upstream locus control region and a regulatory element 3' to the A gamma-globin gene. Stamatoyannopoulos JA, et al. **Mol Cell Biol** 1997 Jan; 17(1):240-7

A globin enhancer acts by increasing the proportion of erythrocytes expressing a linked transgene. Sutherland HG, et al. **Mol Cell Biol** 1997 Mar;17(3):1607-14

Hepatocyte nuclear factor 3beta is involved in pancreatic beta-cell-specific transcription of the pdx-1 gene. Wu KL, et al. **Mol Cell Biol** 1997 Oct;17(10):6002-13

Ultrabithorax and Antennapedia 5' untranslated regions promote developmentally regulated internal translation initiation. Ye X, et al. **Mol Cell Biol** 1997 Mar;17(3):1714-21

Regulation of FGF receptors in the oligodendrocyte lineage. Bansal R, et al. **Mol Cell Neurosci** 1996 Apr;7(4):263-75

The ERR-1 orphan receptor is a transcriptional activator expressed during bone development. Bonnelye E, et al. **Mol Endocrinol** 1997 Jun;11(7):905-16

Progesterone receptor (PR) inhibits expression of insulin-like growth factor-binding protein-1 (IGFBP-1) in human endometrial cell line HEC-1B: characterization of the inhibitory effect of PR on the distal promoter region of the IGFBP-1 gene. Gao J, et al. **Mol Endocrinol** 1997 Jun; 11(7):973-9

Teleost FTZ-F1 homolog and its splicing variant determine the expression of the salmon gonadotropin IIbeta subunit gene. Liu D, et al. **Mol Endocrinol** 1997 Jun;11(7):877-90

Two separate mechanisms for ligand-independent activation of the estrogen receptor. El-Tanani MK, et al. **Mol Endocrinol** 1997 Jun;11(7):928-37

Multiple orphan nuclear receptors converge to regulate rat P450c17 gene transcription: novel mechanisms for orphan nuclear receptor action. Zhang P, et al. **Mol Endocrinol** 1997 Jun;11(7):891-904

Feedback control of glucocorticoid production is established during fetal development. Reichardt HM, et al. **Mol Med** 1996 Nov;2(6):735-44

Transcription and translation of the outer dense fiber gene (Odf1) during spermiogenesis in the rat. A study by in situ analyses and polysome fractionation. Burmester S, et al. **Mol Reprod Dev** 1996 Sep;45(1):10-20

Expression and localization of DNA topoisomerase II during rat spermatogenesis. Chen JL, et al. **Mol Reprod Dev** 1996 Sep;45(1):61-71

Estrogenic effect on the expression of estrogen receptor, COUP-TF, and lactoferrin mRNA in developing mouse tissues. Shigeta H, et al. **Mol Reprod Dev** 1996 Sep; 45(1):21-30

Fringe boundaries coincide with Notch-dependent patterning centres in mammals and alter Notch-dependent development in Drosophila. Cohen B, et al. **Nat Genet** 1997 Jul;16(3):283-8

Inhibition of muscle-specific gene expression by Id3: requirement of the C-terminal region of the protein for stable expression and function. Chen B, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):423-30

H2A.ZI, a new variant histone expressed during Xenopus early development exhibits several distinct features from the core histone H2A. Iouzalen N, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3947-52

Regulation of DNA metabolic enzymes upon induction of preB cell development and V(D)J recombination: up-regulation of DNA polymerase delta. Jessberger R, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):289-96

Molecular cloning of the cDNA encoding a murine sialic acid-specific 9-O-acetylesterase and RNA expression in cells of hematopoietic and non-hematopoietic origin. Stoddart A, et al. **Nucleic Acids Res** 1996 Oct 15; 24(20):4003-8

Genomic structure and expression of the murine Hmgi-c gene. Zhou X, et al. **Nucleic Acids Res** 1996 Oct 15;

24(20):4071–7
DNA sequences that activate isocitrate lyase gene expression during late embryogenesis and during postgerminative growth. Zhang JZ, et al. **Plant Physiol** 1996 Apr; 110(4):1069–79
Multiple promoter elements differentially regulate the expression of the mouse tenascin gene. Copertino DW, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1846–51
[The role of chromatin complexes in regulation of gene expression during development] Calikowski TT. **Postepy Biochem** 1996;42(3):238–43 (63 ref.) **(Pol)**
[Differential gene expression during the reparative regeneration of differing polarities in planarians] Bogdanova EA, et al. **Ontogenez** 1997 Mar–Apr; 28(2):132–7 (Eng. Abstr.) **(Rus)**
[An analysis of the expression of the genes containing the LeR–1 and VeR–1 sequences in the embryogenesis, regeneration and in the intact tissues of newts] Markitantova IuV, et al. **Ontogenez** 1997 Jul–Aug; 28(4):262–70 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Placental expression of HLA class I genes. Le Bouteiller P, et al. **Am J Reprod Immunol** 1996 Mar;35(3):216–25 (60 ref.)
Identification of a novel MHC class I gene, Mamu–AG, expressed in the placenta of a primate with an inactivated G locus. Boyson JE, et al. **J Immunol** 1997 Oct 1; 159(7):3311–21
Antigenic phenotype and gene expression pattern of lymphohemopoietic progenitors during early mouse ontogeny. Marcos MA, et al. **J Immunol** 1997 Mar 15; 158(6):2627–37
Developmentally regulated expression of interleukin–1 beta by peri–implantation conceptuses in swine. Tuo W, et al. **J Reprod Immunol** 1996 Oct;31(3):185–98

PHYSIOLOGY

Gene regulation in the formation of the central nervous system. Lendahl U. **Acta Paediatr Suppl** 1997 Jul;422:8–11 (51 ref.)
Hormones as regulators of brain development: life–long effects related to health and disease. McEwen BS. **Acta Paediatr Suppl** 1997 Jul;422:41–4 (40 ref.)
Sharp increase in rat lung water channel expression in the perinatal period. Umenishi F, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):673–9
Expression of Fgf–3 in relation to hindbrain segmentation, otic pit position and pharyngeal arch morphology in normal and retinoic acid–exposed mouse embryos. Mahmood R, et al. **Anat Embryol (Berl)** 1996 Jul;194(1):13–22
The role of transcription factors in erythroid development. Bungert J, et al. **Ann Med** 1996 Feb;28(1):47–55 (60 ref.)
Transcription of the amylin gene in newborn dogs. Feng BC, et al. **Biochem Mol Med** 1997 Aug;61(2):192–7
Calmodulin kinase IV: expression and function during rat brain development. Krebs J, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):217–22
Chromatin diminution in nematodes. Müller F, et al. **Bioessays** 1996 Feb;18(2):133–8 (43 ref.)
A developmental switch in expression from blastocyst to endometrial/placental–type cytochrome P450 aromatase genes in the pig and horse. Choi I, et al. **Biol Reprod** 1997 Mar;56(3):688–96
Diploid expression of human leukocyte antigen class I and class II molecules on spermatozoa and their cyclic inverse correlation with inhibin concentration. Martín–Villa JM, et al. **Biol Reprod** 1996 Sep;55(3):620–9
Rat endometrial stromal cells express the gap junction genes connexins 26 and 43 and form functional gap junctions during in vitro decidualization. Orlando–Mathur CE, et al. **Biol Reprod** 1996 Apr;54(4):905–13
Expression of the PC4 gene in the developing rat nervous system. Iacopetti P, et al. **Brain Res** 1996 Jan 29; 707(2):293–7
Galanin gene expression declines with adulthood in the cholinergic fields of the horizontal diagonal band of male rats. Planas B, et al. **Brain Res** 1996 Jul 22;728(1):57–64
Phenotypic effects of the weaver gene are evident in the embryonic cerebellum but not in the ventral midbrain. Bayer SA, et al. **Brain Res Dev Brain Res** 1996 Oct 23; 96(1–2):130–7
Developmental expression of MARCKS and protein kinase C in mice in relation to the exencephaly resulting from MARCKS deficiency. Blackshear PJ, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):62–75
Transient expression of lyn gene in Purkinje cells during cerebellar development. Chen S, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):140–6
Changes in proenkephalin gene expression in the developing hamster. Franklin SO. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):239–48
Acetyl–CoA carboxylase gene expression in the developing mouse brain. Comparison with other genes involved in lipid biosynthesis. Garbay B, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):197–203
Development of striatal dopaminergic function. II: Dopaminergic regulation of transcription of the immediate early gene zif268 and of D1 (D1a) and D2 (D2a) receptors during pre– and postnatal development. Jung AB, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):121–32
Prostaglandin–H synthase–1 (PGHS–1) gene is expressed in specific neurons of the brain of the late gestation ovine fetus. Norton JL, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):79–96
The alpha 1 subunit of soluble guanylyl cyclase is expressed prenatally in the rat brain. Smigrodzki R, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):226–34
Isolation of cDNA clones of the rat mRNAs expressed preferentially in the prenatal stages of brain development. Usui H, et al. **Brain Res Dev Brain Res** 1996 Dec 23; 97(2):185–93
A1–adenosine receptor gene expression in fetal rat brain. Weaver DR. **Brain Res Dev Brain Res** 1996 Jul 20; 94(2):205–23
Decreased IGF–I gene expression during the apoptosis of Purkinje cells in pcd mice. Zhang W, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):164–76
Transient expression of the basic helix–loop–helix protein NSCL–2 in the mouse cerebellum during postnatal development. Haire MF, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):174–8
Localization of mRNA for phosphatidylinositol 3–kinase in brain of developing and mature rats. Ito Y, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):149–53
Immediate early gene expression in cat visual cortex during and after the critical period: differences between EGR–1 and Fos proteins. Kaplan IV, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):12–22
Fibroblast growth factor receptor 1 in the adrenal gland and PC12 cells: developmental expression and regulation by extrinsic molecules. Meisinger C, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):70–8
Localization of novel receptor tyrosine kinase genes of the eph family, MDK1 and its splicing variant, in the developing mouse nervous system. Mori T, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):154–60
Early upregulation of medium neurofilament gene expression in developing spinal cord of the wobbler mouse mutant. Pernas–Alonso R, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):267–75
Developmental regulation of alpha–tubulin mRNAs during the differentiation of cultured cerebellar granule cells. Przyborski SA, et al. **Brain Res Mol Brain Res** 1996 Feb; 36(1):179–83
Orphan nuclear receptor ROR alpha gene: isoform–specific spatiotemporal expression during postnatal development of brain. Sashihara S, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):109–17
Cloning and expression of a novel gene for a protein with leucine–rich repeats in the developing mouse nervous system. Taniguchi H, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):45–52
Gut reaction to Wnt signaling in worms [comment] Han M. **Cell** 1997 Aug 22;90(4):581–4 (16 ref.). Comment on: Cell 1997 Aug 22;90(4):695–705. Comment on: Cell 1997 Aug 22;90(4):707–16.
Increased expression of the ETS–related transcription factor FLI–1/ERGB correlates with and can induce the megakaryocytic phenotype. Athanasiou M, et al. **Cell Growth Differ** 1996 Nov;7(11):1525–34
Characterization of the mouse transforming growth factor alpha gene: its expression during eyelid development and in waved 1 tissues. Berkowitz EA, et al. **Cell Growth Differ** 1996 Sep;7(9):1271–82
Expression of neurofibromatosis 2 transcript and gene product during mouse fetal development. Huynh DP, et al. **Cell Growth Differ** 1996 Nov;7(11):1551–61
Evidence for implication of muscle–specific calpain (p94) in myofibrillar integrity. Poussard S, et al. **Cell Growth Differ** 1996 Nov;7(11):1461–9
Identification and expression of epidermal growth factor gene in mouse testis. Zhang ML, et al. **Cell Res** 1997 Jun; 7(1):51–9
Embryonic stem cells and in vitro muscle development. Baker RK, et al. **Curr Top Dev Biol** 1996;33:263–79 (68 ref.)
Paradigms to study signal transduction pathways in Drosophila. Engstrom L, et al. **Curr Top Dev Biol** 1997; 35:229–61 (111 ref.)
Developmental regulation of Zbu1, a DNA–binding member of the SWI2/SNF2 family. Gong X, et al. **Dev Biol** 1997 Mar 15;183(2):166–82
Cadherin–6 expression transiently delineates specific rhombomeres, other neural tube subdivisions, and neural crest subpopulations in mouse embryos. Inoue T, et al. **Dev Biol** 1997 Mar 15;183(2):183–94
GATA–5: a transcriptional activator expressed in a novel temporally and spatially–restricted pattern during embryonic development. Morrisey EE, et al. **Dev Biol** 1997 Mar 1;183(1):21–36
SOX9 binds DNA, activates transcription, and coexpresses with type II collagen during chondrogenesis in the mouse. Ng LJ, et al. **Dev Biol** 1997 Mar 1;183(1):108–21
T promoter activity in the absence of functional T protein during axis formation and elongation in the mouse. Schmidt C, et al. **Dev Biol** 1997 Sep 15;189(2):161–73
Developmental testis–specific regulation of mRNA levels and mRNA translational efficiencies for TATA–binding protein mRNA isoforms. Schmidt EE, et al. **Dev Biol** 1997 Apr 1;184(1):138–49
Characterisation of amphioxus HNF–3 genes: conserved expression in the notochord and floor plate. Shimeld SM. **Dev Biol** 1997 Mar 1;183(1):74–85
Expression of heparan sulfate proteoglycan (perlecan) in the mouse blastocyst is regulated during normal and delayed implantation. Smith SE, et al. **Dev Biol** 1997 Apr 1; 184(1):38–47
Inhibition of protein kinase A phenocopies ectopic expression of hedgehog in the CNS of wild–type and cyclops mutant embryos. Ungar AR, et al. **Dev Biol** 1996 Aug 25; 178(1):186–91
Branchial HOX gene expression and human craniofacial development. Vieille–Grosjean I, et al. **Dev Biol** 1997 Mar 1;183(1):49–60
Mouse ret finger protein (rfp) proto–oncogene is expressed at specific stages of mouse spermatogenesis. Cao T, et al. **Dev Genet** 1996;19(4):309–20
Juvenile hormone regulation and developmental expression of a Tenebrio desiccation stress protein gene. Graham LA, et al. **Dev Genet** 1996;18(4):296–305
Engrailed gene dosage determines whether certain recessive cubitus interruptus alleles exhibit dominance of the adult wing phenotype in Drosophila. Locke J, et al. **Dev Genet** 1996;19(4):340–9
Expression of Pax–3 is initiated in the early neural plate by posteriorizing signals produced by the organizer and by posterior non–axial mesoderm. Bang AG, et al. **Development** 1997 May;124(10):2075–85
Notch signalling regulates veinlet expression and establishes boundaries between veins and interveins in the Drosophila wing. de Celis JF, et al. **Development** 1997 May; 124(10):1919–28
Serrate–mediated activation of Notch is specifically blocked by the product of the gene fringe in the dorsal compartment of the Drosophila wing imaginal disc. Fleming RJ, et al. **Development** 1997 Aug;124(15):2973–81
Flk–1 expression defines a population of early embryonic hematopoietic precursors. Kabrun N, et al. **Development** 1997 May;124(10):2039–48
Transcription factor mTEAD–2 is selectively expressed at the beginning of zygotic gene expression in the mouse. Kaneko KJ, et al. **Development** 1997 May;124(10):1963–73
Medaka spalt acts as a target gene of hedgehog signaling. Koster R, et al. **Development** 1997 Aug;124(16):3147–56
Pax–6 functions in boundary formation and axon guidance in the embryonic mouse forebrain. Mastick GS, et al. **Development** 1997 May;124(10):1985–97
HOXD4 and regulation of the group 4 paralog genes. Morrison A, et al. **Development** 1997 Aug;124(16):3135–46
Zebrafish vasa homologue RNA is localized to the cleavage planes of 2– and 4–cell–stage embryos and is expressed in the primordial germ cells. Yoon C, et al. **Development** 1997 Aug;124(16):3157–65
Xenopus cytochrome b561: molecular confirmation of a general five transmembrane structure and developmental regulation at the gastrula stage. Srivastava M. **DNA Cell Biol** 1996 Dec;15(12):1075–80
Expression of the preoptic regulatory factor–1 and –2 genes in rat testis. Developmental and hormonal regulation. Nowak FV, et al. **Endocrine** 1997 Feb;6(1):65–72
PRAP, a prolactin receptor associated protein: its gene expression and regulation in the corpus luteum. Duan WR, et al. **Endocrinology** 1997 Aug;138(8):3216–21
Expression of four myosin heavy chain genes in developing blood vessels and other smooth muscle organs in rabbits. Sakurai H, et al. **Eur J Cell Biol** 1996 Feb;69(2):166–72
Two glutamate decarboxylase forms corresponding to the mammalian GAD65 and GAD67 are expressed during development of the chick telencephalon. Ahman AK, et al. **Eur J Neurosci** 1996 Oct;8(10):2111–7
Hypothyroidism alters the expression of prostaglandin D2 synthase/beta trace in specific areas of the developing rat brain. García–Fernández LF, et al. **Eur J Neurosci** 1997 Aug;9(8):1566–73
Emx1 and Emx2 show different patterns of expression during proliferation and differentiation of the developing cerebral cortex in the mouse. Gulisano M, et al. **Eur J Neurosci** 1996 May;8(5):1037–50
Elimination of motor nerve terminals in neonatal mice expressing a gene for slow wallerian degeneration (C57Bl/Wlds). Parson SH, et al. **Eur J Neurosci** 1997 Aug; 9(8):1586–92
Molecular cloning, developmental expression and pharmacological characterization of the CCKB/gastrin receptor in the calf pancreas. Dufresne M, et al. **Eur J Pharmacol** 1996 Feb 15;297(1–2):165–79
Expression and localization of the retinoblastoma gene during radiation–induced apoptosis in neonatal rat kidney. Gobé GC, et al. **Exp Cell Res** 1997 Sep 15;235(2):354–61
Repression of muscle–specific gene activation by the murine Twist protein. Hebrok M, et al. **Exp Cell Res** 1997 May 1;232(2):295–303
Isolation of differentially expressed cDNAs during ferret tracheal development: application of differential display PCR. Sehgal A, et al. **Exp Lung Res** 1996 Jul–Aug; 22(4):419–34
Cloning and sequencing of an equine insulin–like growth factor I cDNA and its expression in fetal and adult tissues. Otte K, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):11–5
Molecular cloning and mRNA tissue distribution of a novel matrix metalloproteinase isolated from porcine enamel organ. Bartlett JD, et al. **Gene** 1996 Dec 12;183(1–2):123–8
Two alternative promoters drive the expression of the cytoplasmic actin A4 gene of Bombyx mori. Mangé A,

et al. **Gene** 1996 Dec 12;183(1-2):191-9

strawberry notch encodes a conserved nuclear protein that functions downstream of Notch and regulates gene expression along the developing wing margin of Drosophila. Majumdar A, et al. **Genes Dev** 1997 May 15; 11(10):1341-53

Differential and tissue-specific regulation of (pro)insulin and insulin-like growth factor-I mRNAs and levels of thyroid hormones in growth-retarded embryos. Serna J, et al. **Growth Regul** 1996 Jun;6(2):73-82

An RBM homologue maps to the mouse Y chromosome and is expressed in germ cells. Elliott DJ, et al. **Hum Mol Genet** 1996 Jul;5(7):869-74

Thyroid hormone regulation of germ cell-specific EF-1 alpha expression during metamorphosis of Xenopus laevis. Abdallah B, et al. **Int J Dev Biol** 1996 Apr;40(2):507-14

The community effect in Xenopus myogenesis is promoted by dorsalizing factors. Carnac G, et al. **Int J Dev Biol** 1997 Jun;41(3):521-4

Expression of amyloid precursor protein mRNA isoforms in rat brain is differentially regulated during postnatal maturation and by cholinergic activity. Apelt J, et al. **Int J Dev Neurosci** 1997 Feb;15(1):95-112

Immortalized cell lines from embryonic avian and murine otocysts: tools for molecular studies of the developing inner ear. Barald KF, et al. **Int J Dev Neurosci** 1997 Jul; 15(4-5):523-40

Novel genes expressed in the chick otocyst during development: identification using differential display of RNA. Gong TW, et al. **Int J Dev Neurosci** 1997 Jul; 15(4-5):585-94

Expression pattern of glutamate decarboxylase (GAD) in the developing cortex of the embryonic chick brain. Lundgren P, et al. **Int J Dev Neurosci** 1997 Feb;15(1):127-37

Pre- and postnatal expression of glycoconjugates (3-fucosyl-N-acetyllactosamine and HNK-1 epitopes) in the mouse inner ear. Meyer zum Gottesberge A, et al. **Int J Dev Neurosci** 1997 Jul;15(4-5):645-56

Xenopus Brn-3.0, a POU-domain gene expressed in the developing retina and tectum. Not regulated by innervation. Hirsch N, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):960-9

A novel gene expressed in rat ameloblasts codes for proteins with cell binding domains. Černý R, et al. **J Bone Miner Res** 1996 Jul;11(7):883-91

TGF-beta 1, TGF-beta 2, and TGF-beta 3 exhibit distinct patterns of expression during cranial suture formation and obliteration in vivo and in vitro [see comments] Opperman LA, et al. **J Bone Miner Res** 1997 Mar;12(3):301-10. Comment in: J Bone Miner Res 1997 Mar;12(3):322-31.

Tenascin: a multifunctional extracellular matrix protein with a restricted distribution in development and disease. Crossin KL. **J Cell Biochem** 1996 Jun 15;61(4):592-8 (47 ref.)

Estrogen response in the hFOB 1.19 human fetal osteoblastic cell line stably transfected with the human estrogen receptor gene. Harris SA, et al. **J Cell Biochem** 1995 Oct; 59(2):193-201

Extracellular matrix is required for skeletal muscle differentiation but not myogenin expression. Melo F, et al. **J Cell Biochem** 1996 Aug;62(2):227-39

Functional interrelationships between nuclear structure and transcriptional control: contributions to regulation of cell cycle- and tissue-specific gene expression. Stein GS, et al. **J Cell Biochem** 1996 Aug;62(2):198-209 (102 ref.)

Overexpression of bone morphogenetic protein-6 (BMP-6) in the epidermis of transgenic mice: inhibition or stimulation of proliferation depending on the pattern of transgene expression and formation of psoriatic lesions. Blessing M, et al. **J Cell Biol** 1996 Oct;135(1):227-39

Autonomous differentiation in the mouse myogenic cell line, C2, involves a mutual positive control between insulin-like growth factor II and MyoD, operating as early as at the myoblast stage. Montarras D, et al. **J Cell Sci** 1996 Mar; 109 (Pt 3):551-60

Ontogeny of the striatal neurons expressing the D1 dopamine receptor in humans. Brana C, et al. **J Comp Neurol** 1996 Jun 17;370(1):23-34

Correspondence between L7-lacZ-expressing Purkinje cells and labeled olivocerebellar fibers during late embryogenesis in the mouse. Paradies MA, et al. **J Comp Neurol** 1996 Oct 21;374(3):451-66

Expression of the myelin basic protein gene locus in neurons and oligodendrocytes in the human fetal central nervous system. Pribyl TM, et al. **J Comp Neurol** 1996 Oct 21; 374(3):342-53

Gestational changes of glucose transporter gene expression in the mouse placenta and decidua. Yamaguchi M, et al. **J Endocrinol Invest** 1996 Sep;19(8):567-9

FGF-2 influences cell movements and gene expression during limb development. Li S, et al. **J Exp Zool** 1996 Mar 1;274(4):234-47

Expression patterns and transcript processing of ftt-1 and ftt-2, two C. elegans 14-3-3 homologues. Wang W, et al. **J Mol Biol** 1997 May 9;268(3):619-30

Developmental regulation of angiotensin type 1 and 2 receptor gene expression and heart growth. Everett AD, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):141-8

Characterization of a human cardiac gene which encodes for a LIM domain protein and is developmentally expressed in myocardial development. Fung YW, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):426-7

Regional and age-related differences in mRNA composition of intracellular Ca(2+)-release channels of rat cardiac myocytes. Gorza L, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):1023-36

Cardiac Na+-H+ exchanger during postnatal development in the rat: changes in mRNA expression and sarcolemmal activity. Haworth RS, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):321-32

Enhanced expression of Gi-protein precedes the development of blood pressure in spontaneously hypertensive rats. Marcil J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1009-22

Expression of the ovine stem cell factor gene during folliculogenesis in late fetal and adult ovaries. Tisdall DJ, et al. **J Mol Endocrinol** 1997 Apr;18(2):127-35

CRYP-2: a receptor-type tyrosine phosphatase selectively expressed by developing vertebrate neurons. Bodden K, et al. **J Neurobiol** 1996 Nov;31(3):309-24

Expression of a developmentally regulated gene, Mng10, in identified neurosecretory cells in the CNS of Manduca sexta. Mészáros M, et al. **J Neurobiol** 1996 Jul;30(3):349-58

Developmental expression of the murine Mobp gene. Montague P, et al. **J Neurosci Res** 1997 Jul 15;49(2):133-43

Differential collagen I gene expression in fetal fibroblasts. Gallivan K, et al. **J Pediatr Surg** 1997 Jul;32(7):1033-6

Thyroid hormone regulates postnatal expression of transient K+ channel isoforms in rat ventricle. Shimoni Y, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):65-73

Epithelial development and differentiation: the role of desmosomes. The Watson Smith Lecture 1996. Garrod DR. **J R Coll Physicians Lond** 1996 Jul-Aug;30(4):366-73 (40 ref.)

Effects of hypoxemia on 11 beta-hydroxysteroid dehydrogenase types 1 and 2 gene expression in preterm fetal sheep. Yang K, et al. **J Soc Gynecol Investig** 1997 May-Jun;4(3):124-9

The androgen-dependent mouse seminal vesicle secretory protein of 99 amino acids (MSVSP99): regulation of the mRNA and preliminary characterization of the promoter. Simon AM, et al. **J Steroid Biochem Mol Biol** 1997 Apr; 61(1-2):87-95

Gene regulation of senescence marker protein-30 (SMP30): coordinated up-regulation with tissue maturation and gradual down-regulation with aging. Fujita T, et al. **Mech Ageing Dev** 1996 Jun 25;87(3):219-29

A longitudinal study of human age-related ribosomal RNA gene activity as detected by silver-stained NORs. Thomas S, et al. **Mech Ageing Dev** 1996 Dec 20;92(2-3):101-9

Characterization of IGFBP-3, PAI-1 and SPARC mRNA expression in senescent fibroblasts. Wang S, et al. **Mech Ageing Dev** 1996 Dec 20;92(2-3):121-32

Polychaetoid is required to restrict segregation of sensory organ precursors from proneural clusters in Drosophila. Chen CM, et al. **Mech Dev** 1996 Jul;57(2):215-27

Evidence for the involvement of mouse heat shock factor 1 in the atypical expression of the HSP70.1 heat shock gene during mouse zygotic genome activation. Christians E, et al. **Mol Cell Biol** 1997 Feb;17(2):778-88

Isolation and functional analysis of a cDNA for human Jagged2, a gene encoding a ligand for the Notch1 receptor. Luo B, et al. **Mol Cell Biol** 1997 Oct;17(10):6057-67

Differential regulation of neurogenesis by the two Xenopus GATA-1 genes. Xu RH, et al. **Mol Cell Biol** 1997 Jan; 17(1):436-43

Ontogeny and sexual dimorphic expression of mouse type 2 11beta-hydroxysteroid dehydrogenase. Condon J, et al. **Mol Cell Endocrinol** 1997 Mar 28;127(2):121-8

Molecular cloning and characterization of Drosophila genes encoding small GTPases of the rab and rho families. Sasamura T, et al. **Mol Gen Genet** 1997 May 20; 254(5):486-94

Quantitative control of gene expression by nucleocytoplasmic interactions in early mouse embryos: consequence for reprogrammation by nuclear transfer. Chastant S, et al. **Mol Reprod Dev** 1996 Aug;44(4):423-32

SOX9 directly regulates the type-II collagen gene [see comments] Bell DM, et al. **Nat Genet** 1997 Jun;16(2):174-8. Comment in: Nat Genet 1997 Jun;16(2):114-5.

Expression of beta 1-4 N-acetylgalactosaminyltransferase gene in the developing rat brain and retina: mRNA, protein immunoreactivity and enzyme activity. Daniotti JL, et al. **Neurochem Int** 1997 Jul;31(1):11-9

Developmental regulation of expression of GABAA receptor alpha 1 and alpha 6 subunits in cultured rat cerebellar granule cells. Thompson CL, et al. **Neuropharmacology** 1996;35(9-10):1337-46

Decreased neurofilament gene expression is an index of selective axonal hypotrophy in ageing. Kuchel GA, et al. **Neuroreport** 1996 May 31;7(8):1353-9

Liposome-mediated NGF gene transfection increases ChAT activity in CNS cell cultures. Le W, et al. **Neuroreport** 1996 Feb 29;7(3):710-2

Interleukin-15 gene expression in human astrocytes and microglia in culture. Lee YB, et al. **Neuroreport** 1996 Apr 10;7(5):1062-6

Dynamic changes in expression of glutamate transporter mRNAs in developing brain. Shibata T, et al. **Neuroreport** 1996 Feb 29;7(3):705-9

Developmental expression of 5-HT7 receptor mRNA in rat brain visual structures after neonatal enucleation. Venero JL, et al. **Neuroreport** 1997 Apr 14;8(6):1531-5

Presenilin 1 interaction in the brain with a novel member of the Armadillo family. Zhou J, et al. **Neuroreport** 1997 Apr 14;8(6):1489-94

Expression of a developmentally-regulated neuron-specific isoform of the neurofibromatosis 1 (NF1) gene. Geist RT, et al. **Neurosci Lett** 1996 Jun 21;211(2):85-8

Embryonic genes expressed in Alzheimer's disease brains. Kondo T, et al. **Neurosci Lett** 1996 May 17;209(3):157-60

Expression of pituitary adenylate cyclase activating polypeptide receptors in the early mouse embryo as assessed by reverse transcription polymerase chain reaction and in situ hybridisation. Sheward WJ, et al. **Neurosci Lett** 1996 Sep 20;216(1):45-8

Expression of 5-HT7 receptor mRNA in rat brain during postnatal development. Vizuete ML, et al. **Neurosci Lett** 1997 May 9;227(1):53-6

Binary expression of olfactory bulb-protein tyrosine phosphatase in rat central nervous system: developmental gene regulation in neonate cerebral cortex and constitutive expression in olfactory-rhinencephalon. Yahagi Y, et al. **Neurosci Lett** 1996 Jun 21;211(2):125-8

Transient expression of acetylcholinesterase messenger RNA and enzyme activity in developing rat thalamus studied by quantitative histochemistry and in situ hybridization. Brimijoin S, et al. **Neuroscience** 1996 Mar;71(2):555-65

Developmental regulation of two distinct neuronal phenotypes in rat dorsal root ganglia. Goldstein ME, et al. **Neuroscience** 1996 Mar;71(1):243-58

Muscle isoactin expression during in vitro differentiation of murine embryonic stem cells. Ng WA, et al. **Pediatr Res** 1997 Feb;41(2):285-92

Silencing of a beta-1,3-glucanase transgene is overcome during seed formation. Balandin T, et al. **Plant Mol Biol** 1997 May;34(1):125-37

Characterisation of a pea hsp70 gene which is both developmentally and stress-regulated. Dhankher OP, et al. **Plant Mol Biol** 1997 May;34(2):345-52

Epistasis and pleiotropy as natural properties of transcriptional regulation. Gibson G. **Theor Popul Biol** 1996 Feb;49(1):58-89

Murine Polycomb- and trithorax-group genes regulate homeotic pathways and beyond. Schumacher A, et al. **Trends Genet** 1997 May;13(5):167-70

Agrin mRNA expression in the developing chick Edinger-Westphal nucleus. McAvoy M, et al. **Vis Neurosci** 1996 Mar-Apr;13(2):293-301

Expression of c-fos and c-jun proto-oncogenes by ovine preimplantation embryos. Wu B. **Zygote** 1996 Aug; 4(3):211-7

[Genetic control of limb development] Hérault Y, et al. **Ann Genet** 1996;39(4):222-32 (64 ref.) (Eng. Abstr.) **(Fre)**

[Hereditary biochemical diversity in the processes of evolution and individual development] Altukhov IuP, et al. **Genetika** 1996 Nov;32(11):1450-73 (199 ref.) (Eng. Abstr.) **(Rus)**

[Expression of the CMV-lacZ- and RSV-lacZ-genes in transgenic fish and mouse embryos] Andreeva LE, et al. **Genetika** 1996 Dec;32(12):1661-8 (Eng. Abstr.) **(Rus)**

[Genomic imprinting as a universal mechanism of gene function in development] Redina OE. **Genetika** 1996 May; 32(5):609-13 (68 ref.) (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

[Selective expression of a mutation of the rad 201 radiosensitivity gene in Drosophila embryogenesis] Varentsova ER, et al. **Genetika** 1997 Feb;33(2):205-10 (Eng. Abstr.) **(Rus)**

[A prolonged maternal effect of the rad201 radiosensitivity gene in Drosophila] Varentsova ER, et al. **Genetika** 1997 Feb;33(2):211-6 (Eng. Abstr.) **(Rus)**

GENE EXPRESSION REGULATION, EMBRYOLOGIC see **GENE EXPRESSION REGULATION, DEVELOPMENTAL**

GENE EXPRESSION REGULATION, ENZYMOLOGIC

3' Noncoding sequences of the CTA 1 gene enhance expression of the recombinant serine protease inhibitor, CPTI II, in Saccharomyces cerevisiae. Stankiewicz M, et al. **Acta Biochim Pol** 1996;43(3):525-9

Regulation of the seven human alcohol dehydrogenase genes. Edenberg HJ, et al. **Adv Exp Med Biol** 1997;414:339-45

Gene regulation of aldose reductase under osmotic stress. Iwata T, et al. **Adv Exp Med Biol** 1997;414:507-14

Regulation of rat ALDH-3 by hepatic protein kinases and glucocorticoids. Prough RA, et al. **Adv Exp Med Biol** 1997; 414:29-36 (18 ref.)

Expression of cyclooxygenase-2 mRNA in active inflammatory bowel disease. Hendel J, et al. **Am J Gastroenterol** 1997 Jul;92(7):1170-3

The prediction of lymph node metastases in colorectal cancer by expression of the nucleoside diphosphate kinase/nm23-H1 and histopathological variables. Tannapfel A, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1182-6

Pertussis toxin alters the concentration and turnover of manganese superoxide dismutase in rat lung. Berkovich A, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L875-9

Oxidant stress responses in influenza virus pneumonia: gene expression and transcription factor activation. Choi AM,

et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):L383–91
Group II phospholipase A2 gene expression is transcriptionally regulated in rat liver during sepsis. Dong LW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G706–12
Acute hypoxia upregulates NOS gene expression in rats. Gess B, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R905–10
Cloning, expression, and regulation of rabbit cyclooxygenase-2 in renal medullary interstitial cells. Guan Y, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F18–26
Negative regulation of the rat Na–K–ATPase alpha 3-subunit gene promoter by thyroid hormone. He H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1750–6
Effects of hypoxia on expression of superoxide dismutases in cultured ATII cells and lung fibroblasts. Jackson RM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L955–62
Serum transcriptionally regulates Na(+)-K(+)-ATPase gene expression in vascular smooth muscle cells. Nemoto J, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C1088–99
Upregulation of COX-2 in cerebral microvascular endothelial cells by smooth muscle cell signals. Parfenova H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C277–88
Expression of carbonic anhydrase IV mRNA in rabbit kidney: stimulation by metabolic acidosis. Winkler CA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F551–60
Inducible nitric oxide synthase expression in human vein grafts. Dattilo JB, et al. **Am J Surg** 1997 Aug;174(2):177–80
Transcription factors: regulators of gene expression in normal and pathological states [editorial] Wilson DB. **Ann Med** 1996 Feb;28(1):1–3 (15 ref.)
Short- and long-term regulation of tyrosine hydroxylase in chromaffin cells by VIP and PACAP. Haycock JW. **Ann N Y Acad Sci** 1996 Dec 26;805:219–30; discussion 230–1 (34 ref.)
Nonradioactive in situ hybridization for detection of mRNAs of peroxisomal enzymes in rat liver. Schad A, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:736–8
Interplay of the peroxisome proliferator-activated receptor and the thyroid hormone receptor–signaling pathways in regulating peroxisome proliferator-responsive genes. Winrow CJ, et al. **Ann N Y Acad Sci** 1996 Dec 27; 804:214–30
Regulation of phosphoenolpyruvate carboxykinase (GTP) gene expression. Hanson RW, et al. **Annu Rev Biochem** 1997;66:581–611 (145 ref.)
Regulation of mammalian acetyl-coenzyme A carboxylase. Kim KH. **Annu Rev Nutr** 1997;17:77–99 (107 ref.)
Identification, cloning, and expression of the Escherichia coli pyrazinamidase and nicotinamidase gene, pncA. Frothingham R, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1426–31
An extracellular factor regulating expression of the chromosomal aminoglycoside 2'-N-acetyltransferase of Providencia stuartii. Rather PN, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1749–54
Regulation of ammonia assimilation in an obligate methylotroph Methylobacillus flagellatum under steady-state and transient growth conditions. Baev MV, et al. **Antonie Van Leeuwenhoek** 1997 May;71(4):353–61
Effect of aeration and unsaturated fatty acids on expression of the Saccharomyces cerevisiae alcohol acetyltransferase gene. Fujii T, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):910–5
Expression of a Trichoderma reesei beta-xylanase gene (XYN2) in Saccharomyces cerevisiae. la Grange DC, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1036–44
Efficient expression of a Phanerochaete chrysosporium manganese peroxidase gene in Aspergillus oryzae. Stewart P, et al. **Appl Environ Microbiol** 1996 Mar;62(3):860–4
Use of a promoterless lacZ gene insertion to investigate chitinase gene expression in the marine bacterium Pseudoalteromonas sp. strain S9. Techkarnjanaruk S, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2989–96
Purification, characterization, molecular cloning, and expression of two laccase genes from the white rot basidiomycete Trametes villosa. Yaver DS, et al. **Appl Environ Microbiol** 1996 Mar;62(3):834–41
Identification of positive and negative regulatory elements of the human cytochrome P4501A2 (CYP1A2) gene. Chung I, et al. **Arch Biochem Biophys** 1997 Feb 15; 338(2):220–6
Regulation of hepatic cytochrome P450 2C11 by glucocorticoids. Iber H, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):305–10
Over-expression of glutathione S-transferases, DT-diaphorase and an apparently tumour-specific cytosolic class-3 aldehyde dehydrogenase by Warthin tumours and mucoepidermoid carcinomas of the human parotid gland. Sreerama L, et al. **Arch Oral Biol** 1996 Jun; 41(6):597–605
Association of interleukin-1-induced, NF kappa B DNA-binding activity with collagenase gene expression in human gingival fibroblasts. Tewari M, et al. **Arch Oral Biol** 1996 May;41(5):461–8
Cell cycle-dependent regulation of the mouse DNA topoisomerase IIalpha gene promoter. Adachi N, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):105–9
Inhibition of cell growth by overexpression of the ZPK gene. Bergeron P, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):153–5
Identification of the human aldolase A gene as the first induced target for the TR2 orphan receptor, a member of the steroid hormone receptor superfamily. Chang C, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):205–11
Regulation of the hamster cholesterol 7 alpha-hydroxylase gene (CYP7A): prevalence of negative over positive transcriptional control. De Fabiani E, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):663–71
Regulation of acetyl coenzyme-A carboxylase gene in a transgenic animal model. Ekhterae D, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):547–52
Transient down-regulation of inhibin-betaC expression following partial hepatectomy. Esquela AF, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):553–6
Elevated expression of DNA polymerase beta gene in glioma cell lines with acquired resistance to 1-(4-amino-2-methyl-5-pyrimidinyl)methyl-3-(2-chloroethyl)-3- nitrosourea. Gomi A, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):558–63
Two regulatory regions controlling basal and cellulose-induced expression of the gene encoding cellobiohydrolase I of Trichoderma reesei are adjacent to its TATA box. Henrique-Silva F, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):229–37
Expression of the JNK2-alpha1 gene in the developing chick brain [published erratum appears in Biochem Biophys Res Commun 1997 Jul 18;236(2):538] Ishikawa T, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):489–92
Role of posttranscriptional processes in the regulation of glutathione S-transferase P1 gene expression in human breast cancer cells. Jhaveri MS, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):729–34
Transcriptional regulation of hexokinase II in denervated rat skeletal muscle. Jones JP, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):53–5
Molecular cloning and expression of human alpha2,8-sialyltransferase (hST8Sia V). Kim YJ, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):327–30
Maternal dietary glucose modifies phosphoenolpyruvate carboxykinase (PEPCK) gene expression in the kidney of newborn rats. Liu XJ, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):187–90
Regulation of hepatic stearoyl-CoA desaturase gene 1 by vitamin A. Miller CW, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):206–10
Expression of human inducible nitric oxide synthase is regulated by both promoter and 3'-regions. Nunokawa Y, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):523–6
Immunological detection of CYP2E1 in fresh rat lymphocytes and its pretranslational induction by fasting. Soh Y, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):541–6
An AP1 element is involved in transcriptional regulation of delta9-desaturase gene of Histoplasma capsulatum. Tosco A, et al. **Biochem Biophys Res Commun** 1997 Jan 13; 230(2):457–61
The bacteriophage T7 binary system activates transient transgene expression in zebrafish (Danio rerio) embryos. Verri T, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):492–5
Expression of members of the novel membrane linked metalloproteinase family ADAM in cells derived from a range of haematological malignancies. Wu E, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):437–42
Insulin suppresses the induction of CYP2B1 and CYP2B2 gene expression by phenobarbital in adult rat cultured hepatocytes. Yoshida Y, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):182–8
Molecular cloning, functional expression, and selective regulation of ovine prostaglandin H synthase-2. Zhang V, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):499–506
Sequence requirement for replication initiation at the rat aldolase B locus implicated in its functional correlation with transcriptional regulation. Zhao Y, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):707–13
Genetic regulation of gene-specific mRNA by ethanol in vivo and its possible role in ethanol preference in a cross with RI lines in mice. Tagliabracci CE, et al. **Biochem Genet** 1996 Jun;34(5–6):219–38
Gene expression of mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase in a poorly ketogenic mammal: effect of starvation during the neonatal period of the piglet. Adams SH, et al. **Biochem J** 1997 May 15;324 (Pt 1):65–73
ATP synthase subunit c expression: physiological regulation of the P1 and P2 genes. Andersson U, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):379–85
Transfection of human topoisomerase II alpha into etoposide-resistant cells: transient increase in sensitivity followed by down-regulation of the endogenous gene. Asano T, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):307–13
Tissue-specific regulation of medium-chain acyl-CoA dehydrogenase gene by thyroid hormones in the developing rat. Djouadi F, et al. **Biochem J** 1997 May 15; 324 (Pt 1):289–94
Circadian regulation of hydroxyindole-O-methyltransferase mRNA in the chicken pineal gland in vivo and in vitro. Grève P, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):761–6
Thyromimetic mode of action of peroxisome proliferators: activation of 'malic' enzyme gene transcription. Hertz R, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):241–8
Alterations in nutritional status regulate acetyl-CoA carboxylase expression in avian liver by a transcriptional mechanism. Hillgartner FB, et al. **Biochem J** 1996 Oct 1; 319 (Pt 1):263–8
Expression of xanthine oxidoreductase in mouse mammary epithelium during pregnancy and lactation: regulation of gene expression by glucocorticoids and prolactin. Kurosaki M, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):801–10
The proximal element of the human apolipoprotein A-II promoter increases the enhancer activity of the distal region. Lacorte JM, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):681–8
Multiple factors regulating the expression of human thromboxane synthase gene. Lee KD, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):783–91
Role of the 5' enhancer of the glutamine synthetase gene in its organ-specific expression. Lie-Venema H, et al. **Biochem J** 1997 May 1;323 (Pt 3):611–9
Regulation of the expression of stromelysin-2 by growth factors in keratinocytes: implications for normal and impaired wound healing. Madlener M, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):659–64
Quantitative profiling of tissue- and gender-related expression of glutathione S-transferase isoenzymes in the mouse. Mitchell AE, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):207–16
Transcriptional and post-transcriptional mechanisms can regulate cell-specific expression of the human Pi-class glutathione S-transferase gene. Moffat GJ, et al. **Biochem J** 1997 May 15;324 (Pt 1):91–5
Nitric oxide regulates nitric oxide synthase-2 gene expression by inhibiting NF-kappaB binding to DNA. Park SK, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):609–13
Interleukin 1 beta and cAMP trigger the expression of GTP cyclohydrolase I in rat renal mesangial cells. Plüss C, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):665–71
Regulation of lactase-phlorizin hydrolase gene expression by the caudal-related homoeodomain protein Cdx-2. Troelsen JT, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):833–8
Tissue-specific expression and promoter analyses of the human tissue kallikrein gene in transgenic mice. Xiong W, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):111–6
Members of the nuclear factor 1 family and hepatocyte nuclear factor 4 bind to overlapping sequences of the L-II element on the rat pyruvate kinase L gene promoter and regulate its expression. Yamada K, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):917–25
Modulation of muscle creatine kinase promoter activity by the inducible orphan nuclear receptor TIS1. Yang WL, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):281–7
Organization of the human beta-1,2-N-acetylglucosaminyltransferase I gene (MGAT1), which controls complex and hybrid N-glycan synthesis. Yip B, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):465–74
Expression of S-adenosylmethionine synthetase isozyme genes in regenerating rat liver after partial hepatectomy. Horikawa S, et al. **Biochem Mol Biol Int** 1996 Nov; 40(4):807–14
Regulation of inducible nitric oxide synthase expression in human glia: implications for inflammatory central nervous system diseases. Brosnan CF, et al. **Biochem Soc Trans** 1997 May;25(2):679–83 (32 ref.)
Glucose catabolism induces the L-type pyruvate kinase gene (125a). Doiron B, et al. **Biochem Soc Trans** 1996 May; 24(2):250S
Regulation of lipogenic enzyme expression by glucose in liver and adipose tissue: is glucose 6-phosphate the signalling metabolite? Foufelle F, et al. **Biochem Soc Trans** 1996 May; 24(2):372–8 (43 ref.)
Regulation of overexpressed hexokinases in liver and islet cells. Newgard CB, et al. **Biochem Soc Trans** 1997 Feb; 25(1):118–22 (26 ref.)
Hexokinase II gene: structure, regulation and promoter organization. Printz RL, et al. **Biochem Soc Trans** 1997 Feb;25(1):107–12 (44 ref.)
Interaction of Sp1 and NF-Y in the diet-induced regulation of the rat fatty acid synthase (FAS) gene. Roder KH, et al. **Biochem Soc Trans** 1997 Feb;25(1):72S
Metabolic regulation of hepatic gene expression. Towle HC, et al. **Biochem Soc Trans** 1996 May;24(2):364–8 (31 ref.)
Regulation of acetyl CoA carboxylase gene expression in adipose tissue from lactating sheep. Travers MT, et al. **Biochem Soc Trans** 1996 May;24(2):223S
CCAAT/enhancer binding protein positively regulates the rat 11 beta-hydroxysteroid dehydrogenase type 1 promoter in liver cells. Williams LJ, et al. **Biochem Soc Trans** 1997 May;25(2):235S
The role of Sp1 in the diet-induced regulation of the rat fatty acid synthase [FAS] gene. Wolf SS, et al. **Biochem Soc Trans** 1997 May;25(2):156S
Negative regulation of the major human AP-endonuclease, a multifunctional protein. Izumi T, et al. **Biochemistry** 1996 Nov 26;35(47):14679–83
Fibronectin fragments induce the expression of stromelysin-1 mRNA and protein in bovine chondrocytes in monolayer culture. Bewsey KE, et al. **Biochim Biophys Acta** 1996 Oct 7;1317(1):55–64
Cloning and expression of the cDNA for mouse NAD(+)-dependent 15-hydroxyprostaglandin dehydrogenase. Matsuo M, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1–2):21–4
Differential effects of creatine depletion on the regulation of enzyme activities and on creatine-stimulated

mitochondrial respiration in skeletal muscle, heart, and brain. O'Gorman E, et al. **Biochim Biophys Acta** 1996 Sep 12;1276(2):161–70

Regulation of gene expression for lipogenic enzymes in the liver and adipose tissue of hereditary hypertriglyceridemic, insulin–resistant rats: effect of dietary sucrose and marine fish oil. Sebökovà E, et al. **Biochim Biophys Acta** 1996 Sep 6;1303(1):56–62

Analysis of carbon source–regulated gene expression by the upstream region of the Candida tropicalis malate synthase gene in Saccharomyces cerevisiae. Umemura K, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):80–8

Regulation of the human long chain acyl–CoA dehydrogenase gene by nuclear hormone receptor transcription factors. Zhang Z, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):53–64

A regulatory switch involving a Clp ATPase. Lazazzera BA, et al. **Bioessays** 1997 Jun;19(6):455–8 (38 ref.)

Modulation of SERCA2 activity: regulated splicing and interaction with phospholamban. Verboomen H, et al. **Biosci Rep** 1995 Oct;15(5):307 (48 ref.)

Regulation of mouse mast cell protease 6 gene expression by transcription factor encoded by the mi locus. Morii E, et al. **Blood** 1996 Oct 1;88(7):2488–94

Nycthemeral expression of tryptophan hydroxylase mRNAs in the rat pineal gland. Besançon R, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):136–8

Regulation of tyrosine hydroxylase gene expression by the m1 muscarinic acetylcholine receptor in rat pheochromocytoma cells. Chen Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):42–54

Structural organization, chromosomal localization, expression and phylogenetic evaluation of mouse glutathione peroxidase encoding genes. Dufaure JP, et al. **C R Acad Sci III** 1996 Jul;319(7):559–68 **(Eng, Fre)**

Glutathione S–transferase–pi expression and glutathione concentration in ovarian carcinoma before and after chemotherapy. Cheng X, et al. **Cancer** 1997 Feb 1; 79(3):521–7

A polymorphism of the 5 alpha–reductase gene and its association with prostate cancer: a case–control analysis. Kantoff PW, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar;6(3):189–92

TEP1, encoded by a candidate tumor suppressor locus, is a novel protein tyrosine phosphatase regulated by transforming growth factor beta. Li DM, et al. **Cancer Res** 1997 Jun 1;57(11):2124–9

Differential down–regulation of the UDP–glucuronosyltransferase 1A locus is an early event in human liver and biliary cancer. Strassburg CP, et al. **Cancer Res** 1997 Jul 15;57(14):2979–85

Bryostatin–1 and IFN–gamma synergize for the expression of the inducible nitric oxide synthase gene and for nitric oxide production in murine macrophages. Taylor LS, et al. **Cancer Res** 1997 Jun 15;57(12):2468–73

Patterns of gene expression in human airway epithelial cells. Willey JC, et al. **Chest** 1997 Jun;111(6 Suppl):83S

The 17 alpha–hydroxylase/17,20 lyase gene (CYP17) and polycystic ovary syndrome [comment] Franks S. **Clin Endocrinol (Oxf)** 1997 Feb;46(2):135–6. Comment on: Clin Endocrinol (Oxf) 1997 Feb;46(2):131–4.

Frequency of a polymorphism in the regulatory region of the 17 alpha–hydroxylase–17,20–lyase (CYP17) gene in hyperandrogenic states [see comments] Techatraisak K, et al. **Clin Endocrinol (Oxf)** 1997 Feb;46(2):131–4. Comment in: Clin Endocrinol (Oxf) 1997 Feb;46(2):135–6.

Induction of proinflammatory cytokine and antioxidant enzyme gene expression following brief myocardial ischaemia. Chandrasekar B, et al. **Clin Exp Immunol** 1997 May;108(2):346–51

Renin, prorenin, and renin gene expression in rats with acute nephrotic syndrome. Ibarra–Rubio ME, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):408–14

Comparison of age–related differences in expression of phospholipid hydroperoxide glutathione peroxidase mRNA and activity in various tissues of pigs. Lei XG, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 May; 117(1):109–14

Transcriptional control of matrix metalloproteinases and the tissue inhibitors of matrix metalloproteinases. Borden P, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1–2):159–78 (150 ref.)

Transient expression of the beta–glucuronidase gene after biolistic transformation of the anaerobic fungus Neocallimastix frontalis. Durand R, et al. **Curr Genet** 1997 Feb;31(2):158–61

Mutations in SPK1/RAD53 that specifically abolish checkpoint but not growth–related functions. Fay DS, et al. **Curr Genet** 1997 Feb;31(2):97–105

Improved biocontrol activity of Trichoderma harzianum by over–expression of the proteinase–encoding gene prb1. Flores A, et al. **Curr Genet** 1997 Jan;31(1):30–7

Localization of mRNA for UDP–galactose: ceramide galactosyltransferase in the brain during mouse development. Kagawa T, et al. **Dev Neurosci** 1996; 18(4):309–18

The NIMA–related kinase 2, Nek2, is expressed in specific stages of the meiotic cell cycle and associates with meiotic chromosomes. Rhee K, et al. **Development** 1997 Jun; 124(11):2167–77

Regulation of rat liver glucose–6–phosphatase gene expression in different nutritional and hormonal states: gene structure and 5'–flanking sequence. Argaud D, et al. **Diabetes** 1996 Nov;45(11):1563–71

Oxidative and chemical stress mimic insulin by selectively inhibiting the expression of phosphoenolpyruvate carboxykinase in hepatoma cells. Sutherland C, et al. **Diabetes** 1997 Jan;46(1):17–22

Closely related genes encode developmental and tissue isoforms of porcine cytochrome P450 aromatase. Choi I, et al. **DNA Cell Biol** 1997 Jun;16(6):769–77

The manganese superoxide dismutase gene of Drosophila: structure, expression, and evidence for regulation by MAP kinase. Duttaroy A, et al. **DNA Cell Biol** 1997 Apr; 16(4):391–9

Molecular cloning and functional characterization of the human cytosolic malic enzyme promoter: thyroid hormone responsiveness. González–Manchón C, et al. **DNA Cell Biol** 1997 May;16(5):533–44

The promoter activity of the phospholipase C–gamma2 gene is regulated by a cell–type–specific control element. Lee SJ, et al. **DNA Cell Biol** 1997 Apr;16(4):485–92

DNase I primary transcript is alternatively spliced in both normal and apoptotic cells: no evidence of up–regulation in apoptosis. Liu QY, et al. **DNA Cell Biol** 1997 Aug; 16(8):911–8

Molecular cloning of a functional murine arginine–specific mono–ADP–ribosyltransferase and its expression in lymphoid cells. Yu Y, et al. **DNA Cell Biol** 1997 Feb; 16(2):235–44

Cloning, DNA sequence, and regulation of expression of a gene encoding beta–galactosidase from Lactococcus lactis. Griffin HG, et al. **DNA Seq** 1996;6(6):337–46

HPK1, a hematopoietic protein kinase activating the SAPK/JNK pathway. Kiefer F, et al. **EMBO J** 1996 Dec 16;15(24):7013–25

Estrogen regulation of placental P–450 cholesterol side–chain cleavage enzyme messenger ribonucleic acid levels and activity during baboon pregnancy. Babischkin JS, et al. **Endocrinology** 1997 Jan;138(1):452–9

Autocrine down–regulation of collagenase–3 in rat bone cell cultures by insulin–like growth factors. Delany AM, et al. **Endocrinology** 1996 Nov;137(11):4665–70

Differential gene expression of cytochrome P450 11beta–hydroxylase in rat adrenal cortex after in vivo activation. Engeland WC, et al. **Endocrinology** 1997 Jun; 138(6):2338–46

Tissue–specific expression of the bovine aromatase–encoding gene uses multiple transcriptional start sites and alternative first exons. Fürbass R, et al. **Endocrinology** 1997 Jul; 138(7):2813–9

Effects of ceramide and protein kinase C on the regulation of type I 5'–deiodinase in FRTL–5 rat thyroid cells. Mori K, et al. **Endocrinology** 1996 Nov;137(11):4994–9

Transcription of the rat sarcoplasmic reticulum Ca2+ adenosine triphosphatase gene is increased by 3,5,3'–triiodothyronine receptor isoform–specific interactions with the myocyte–specific enhancer factor–2a. Moriscot AS, et al. **Endocrinology** 1997 Jan;138(1):26–32

Mechanisms controlling the transcription of matrix metalloproteinase genes in normal and neoplastic cells. Crawford HC, et al. **Enzyme Protein** 1996;49(1–3):20–37 (105 ref.)

Stromal cell expression of components of matrix–degrading protease systems in human cancer. Hewitt R, et al. **Enzyme Protein** 1996;49(1–3):163–73 (89 ref.)

Overexpression of glutathione S–transferase pi messenger RNA and its relationship to gene amplification in head and neck squamous cell carcinoma. Pavelic ZP, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S144–6

Evolution of the aminoacyl–tRNA synthetase family and the organization of the Drosophila glutamyl–prolyl–tRNA synthetase gene. Intron/exon structure of the gene, control of expression of the two mRNAs, selective advantage of the multienzyme complex. Cerini C, et al. **Eur J Biochem** 1997 Feb 15;244(1):176–85

The GLY1 gene of Saccharomyces cerevisiae encodes a low–specific L–threonine aldolase that catalyzes cleavage of L–allo–threonine and L–threonine to glycine—expression of the gene in Escherichia coli and purification and characterization of the enzyme. Liu JQ, et al. **Eur J Biochem** 1997 Apr 15;245(2):289–93

Structure and transcriptional regulation of human alpha–mannosidase IIX (alpha–mannosidase II isotype) gene. Ogawa R, et al. **Eur J Biochem** 1996 Dec 15; 242(3):446–53

Characterization of two nuclear proteins that interact with cytochrome P–450 1A2 mRNA. Regulation of RNA binding and possible role in the expression of the Cyp1a2 gene. Raffalli–Mathieu F, et al. **Eur J Biochem** 1997 Apr 1;245(1):17–24

Isolation of the gene encoding Pyrococcus furiosus ornithine carbamoyltransferase and study of its expression profile in vivo and in vitro. Roovers M, et al. **Eur J Biochem** 1997 Aug 1;247(3):1038–45

Derepression of gene expression mediated by the 5'upstream region of the isocitrate lyase gene of Candida tropicalis is controlled by two distinct regulatory pathways in Saccharomyces cerevisiae. Umemura K, et al. **Eur J Biochem** 1997 Feb 1;243(3):748–52

Molecular identification of a major retinoic–acid–synthesizing enzyme. a retinaldehyde–specific dehydrogenase. Zhao D, et al. **Eur J Biochem** 1996 Aug 15;240(1):15–22

Stimulus–dependent, reciprocal up– and downregulation of glutamic acid decarboxylase and Ca2+/calmodulin–dependent protein kinase II gene expression in rat cerebral cortex. Liang F, et al. **Exp Brain Res** 1996 Jul;110(2):163–74

12–Lipoxygenase in A431 cells: genetic identity, modulation of expression, and intracellular localization. Hagmann W, et al. **Exp Cell Res** 1996 Nov 1;228(2):197–205

Thyroid cell transformation inhibits the expression of a novel rat protein tyrosine phosphatase. Zhang L, et al. **Exp Cell Res** 1997 Aug 25;235(1):62–70

Plasmodium falciparum: direct cloning and expression of pyrimethamine–sensitive and pyrimethamine–resistant dihydrofolate reductase domains. Hekmat–Nejad M, et al. **Exp Parasitol** 1997 Mar;85(3):303–5

Role of the peroxisome proliferator–activated receptor in cytochrome P450 4A gene regulation. Johnson EF, et al. **FASEB J** 1996 Sep;10(11):1241–8 (67 ref.)

Cytochromes P450 11: expression of the CYP19 (aromatase) gene: an unusual case of alternative promoter usage. Simpson ER, et al. **FASEB J** 1997 Jan;11(1):29–36 (67 ref.)

Transcriptional regulatory regions for expression of the rat fatty acid synthase. Fukuda H, et al. **FEBS Lett** 1997 Apr 14;406(3):243–8

Regulation of human renin secretion and gene transcription in Calu–6 cells. Germain S, et al. **FEBS Lett** 1997 Apr 28;407(2):177–83

C/EBP alpha is a major activator for the transcription of rat Cu/Zn superoxide dismutase gene in liver cell. Kim YH, et al. **FEBS Lett** 1997 Jan 20;401(2–3):267–70

Mouse cathepsin K: cDNA cloning and predominant expression of the gene in osteoclasts, and in some hypertrophying chondrocytes during mouse development. Rantakokko J, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):307–13

Sequence analysis and distribution of two new human cathepsin L splice variants. Rescheleit DK, et al. **FEBS Lett** 1996 Oct 7;394(3):345–8

Hormone– and endotoxin–modulated gene expression of a long–term organ culture system of adult rat liver. Sultan K, et al. **FEBS Lett** 1996 Sep 23;394(1):51–4

Differential expression of tissue transglutaminase during in vivo apoptosis of thymocytes induced via distinct signalling pathways. Szondy Z, et al. **FEBS Lett** 1997 Mar 10; 404(2–3):307–13

Iron triggers a rapid induction of ascorbate peroxidase gene expression in Brassica napus. Vansuyt G, et al. **FEBS Lett** 1997 Jun 30;410(2–3):195–200

Temperature–related expression of the vacuolar aspartic proteinase (APR1) gene and beta–N–acetylglucosaminidase (HEX1) gene during Candida albicans morphogenesis. Niimi M, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):247–54

Evidence for regulation of the NADH peroxidase gene (npr) from Enterococcus faecalis by OxyR. Ross RP, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):177–83

Regulation of sucrase and lactase in developing rats: role of nuclear factors that bind to two gene regulatory elements. Hecht A, et al. **Gastroenterology** 1997 Mar; 112(3):803–12

Enhanced cyclooxygenase–2 gene expression in alcoholic liver disease in the rat. Nanji AA, et al. **Gastroenterology** 1997 Mar;112(3):943–51

Effects of malnutrition on expression and activity of lactase in children. Nichols BL, et al. **Gastroenterology** 1997 Mar; 112(3):742–51

Isolation of cDNA clones encoding DNA methyltransferase of sea urchin P. lividus: expression during embryonic development. Aniello F, et al. **Gene** 1996 Oct 31; 178(1–2):57–61

Bacillus subtilis bacteriophage SPP1 terminase has a dual activity: it is required for the packaging initiation and represses its own synthesis. Chai S, et al. **Gene** 1997 Jan 15;184(2):251–6

Studies of the mouse Rab geranylgeranyl transferase beta subunit: gene structure, expression and regulation. Chinpaisal C, et al. **Gene** 1997 Jan 15;184(2):237–43

Isolation and characterisation of a novel stress–inducible PDI–family gene from Aspergillus niger. Jeenes DJ, et al. **Gene** 1997 Jul 9;193(2):151–6

Identification of factors regulating the expression of the human glucocerebrosidase gene. Moran D, et al. **Gene** 1997 Jul 31;194(2):201–13

Cloning and expression of AatII restriction–modification system in Escherichia coli. Nwankwo DO, et al. **Gene** 1997 Jan 31;185(1):105–9

Transcription of the human hepatic lipase gene is modulated by multiple negative elements in HepG2 cells. Oka K, et al. **Gene** 1996 Nov 21;180(1–2):69–80

Sp1 and C/EBP–related factor regulate the transcription of human Cu/Zn SOD gene. Seo SJ, et al. **Gene** 1996 Oct 31;178(1–2):177–85

The role of nuclear factor NF–Y/CP1 in the transcriptional regulation of the human aldehyde dehydrogenase 2–encoding gene. Stewart MJ, et al. **Gene** 1996 Sep 16; 173(2):155–61

Ten kilobases of 5'–flanking region confers proper regulation of the mouse alcohol dehydrogenase–1 (Adh–1) gene in kidney and adrenal of transgenic mice. Xie D, et al. **Gene** 1996 Nov 28;181(1–2):173–8

Nuclear hormone receptors inhibit matrix metalloproteinase (MMP) gene expression through diverse mechanisms.

Schroen DJ, et al. **Gene Expr** 1996;6(4):197–207 (95 ref.)
RNA polymerase III defects suppress a conditional–lethal poly(A) polymerase mutation in Saccharomyces cerevisiae. Briggs MW, et al. **Genetics** 1996 Jul;143(3):1149–61
Isolation and identification of genes activating UAS2–dependent ADH2 expression in Saccharomyces cerevisiae. Donoviel MS, et al. **Genetics** 1996 Jul; 143(3):1137–48
Suppression of pdc2 regulating pyruvate decarboxylase synthesis in yeast. Velmurugan S, et al. **Genetics** 1997 Mar; 145(3):587–94
Cloning, expression, and chromosomal assignment of the human mitochondrial intermediate peptidase gene (MIPEP). Chew A, et al. **Genomics** 1997 Mar 15; 40(3):493–6
Assignment of human protein phosphatase 2A regulatory subunit genes b56alpha, b56beta, b56gamma, b56delta, and b56epsilon (PPP2R5A–PPP2R5E), highly expressed in muscle and brain, to chromosome regions 1q41, 11q12, 3p21, 6p21.1, and 7μ11.2 —> p12. McCright B, et al. **Genomics** 1996 Aug 15;36(1):168–70
Regulation of aldose reductase expression in rat astrocytes in culture. Jacquin–Becker C, et al. **Glia** 1997 Jun; 20(2):135–44
Murine hepatic beta–galactoside alpha 2,6–sialyltransferase gene expression involves usage of a novel upstream exon region. Hu YP, et al. **Glycoconj J** 1997 Apr;14(3):407–11
Site restricted and neuron dominant expression of alpha 2,8sialyltransferase gene in the adult mouse brain and retina. Yamamoto A, et al. **Glycoconj J** 1996 Jun;13(3):471–80
Mechanism of the impairment of the glucagon–stimulated phosphoenolpyruvate carboxykinase gene expression by interleukin–6 in rat hepatocytes: inhibition of the increase in cyclic 3',5' adenosine monophosphate and the downstream cyclic 3',5' adenosine monophosphate action. Christ B, et al. **Hepatology** 1997 Jul;26(1):73–80
Heat shock response inhibits cytokine–inducible nitric oxide synthase expression in rat hepatocytes. de Vera ME, et al. **Hepatology** 1996 Nov;24(5):1238–45
Effect of cell density and epidermal growth factor on the inducible expression of CYP3A and CYP1A genes in human hepatocytes in primary culture. Greuet J, et al. **Hepatology** 1997 May;25(5):1166–75
The expression of endosomal rab proteins correlates with endocytic rate in rat liver cells. Juvet LK, et al. **Hepatology** 1997 May;25(5):1204–12
Gene expression of glucokinase regulatory protein in regenerating rat liver. Rosa JL, et al. **Hepatology** 1997 Feb; 25(2):324–8
The expression of pepsinogen c mRNA in normal gastroduodenal mucosa and the gastric ulcer margin of the rat. Helander HF, et al. **Histochem Cell Biol** 1996 Feb; 105(2):163–9
Full genetic rescue of adenosine deaminase–deficient mice through introduction of the human gene. Migchielsen AA, et al. **Hum Mol Genet** 1996 Oct;5(10):1523–32
Induction of mitogen–activated protein kinase phosphatase–1 during acute hypertension. Xu Q, et al. **Hypertension** 1997 Jul;30(1 Pt 1):106–11
Altered regulation of inducible nitric oxide synthase expression in macrophages from senescent mice. Chen LC, et al. **Infect Immun** 1996 Oct;64(10):4288–98
Pseudomonas aeruginosa–mediated cytotoxicity and invasion correlate with distinct genotypes at the loci encoding exoenzyme S. Fleiszig SM, et al. **Infect Immun** 1997 Feb; 65(2):579–86
Expression of the Streptococcus mutans fructosyltransferase gene within a mammalian host. Grey WT, et al. **Infect Immun** 1997 Jun;65(6):2488–90
Differential effects of streptozotocin–induced diabetes on phenylalanine hydroxylase protein and mRNA abundance in isolated rat liver cells. McDowall IL, et al. **Int J Biochem Cell Biol** 1996 Jul;28(7):761–70
Control of proteinase expression by phorbol–ester– and Fos–dependent pathways in human non–small–cell lung–cancer cells. Schuermann M, et al. **Int J Cancer** 1997 Apr 10;71(2):275–83
Cathepsin G, acid phosphatase, and alpha 1–proteinase inhibitor messenger RNA levels in keratoconus corneas. Whitelock RB, et al. **Invest Ophthalmol Vis Sci** 1997 Feb; 38(2):529–34
Aerobic regulation of isocitrate dehydrogenase gene (icd) expression in Escherichia coli by the arcA and fnr gene products. Chao G, et al. **J Bacteriol** 1997 Jul; 179(13):4299–304
The hupTUV operon is involved in negative control of hydrogenase synthesis in Rhodobacter capsulatus. Elsen S, et al. **J Bacteriol** 1996 Sep;178(17):5174–81
Regulation of yeast phospholipid biosynthetic genes in phosphatidylserine decarboxylase mutants. Griač P. **J Bacteriol** 1997 Sep;179(18):5843–8
Aerobic regulation of the sucABCD genes of Escherichia coli, which encode alpha–ketoglutarate dehydrogenase and succinyl coenzyme A synthetase: roles of ArcA, Fnr, and the upstream sdhCDAB promoter. Park SJ, et al. **J Bacteriol** 1997 Jul;179(13):4138–42
Osmoprotectant–dependent expression of plcH, encoding the hemolytic phospholipase C, is subject to novel catabolite repression control in Pseudomonas aeruginosa PAO1. Sage AE, et al. **J Bacteriol** 1997 Aug;179(15):4874–81
The tpl promoter of Citrobacter freundii is activated by the TyrR protein. Smith HQ, et al. **J Bacteriol** 1997 Sep; 179(18):5914–21
Repression of the aroP gene of Escherichia coli involves activation of a divergent promoter. Wang P, et al. **J Bacteriol** 1997 Jul;179(13):4213–8
Regulation of Schizosaccharomyces pombe Wee1 tyrosine kinase. Aligue R, et al. **J Biol Chem** 1997 May 16; 272(20):13320–5
Stimulation of glucose–6–phosphatase gene expression by glucose and fructose–2,6–bisphosphate. Argaud D, et al. **J Biol Chem** 1997 May 9;272(19):12854–61
Opiate–induced adenylyl cyclase superactivation is isozyme–specific. Avidor–Reiss T, et al. **J Biol Chem** 1997 Feb 21;272(8):5040–7
The rat arylalkylamine N–acetyltransferase gene promoter. cAMP activation via a cAMP–responsive element–CCAAT complex. Baler R, et al. **J Biol Chem** 1997 Mar 14;272(11):6979–85
Cytokine control of interstitial collagenase and collagenase–3 gene expression in human chondrocytes. Borden P, et al. **J Biol Chem** 1996 Sep 20;271(38):23577–81
c–Myb trans–activates the human DNA topoisomerase IIalpha gene promoter. Brandt TL, et al. **J Biol Chem** 1997 Mar 7;272(10):6278–84
Regulation of the nuclear gene that encodes the alpha–subunit of the mitochondrial F0F1–ATP synthase complex. Activation by upstream stimulatory factor 2. Breen GA, et al. **J Biol Chem** 1997 Apr 18;272(16):10538–42
Transcriptional regulation of N–acetylglucosaminyltransferase V by the src oncogene. Buckhaults P, et al. **J Biol Chem** 1997 Aug 1; 272(31):19575–81
Identification of a multihormone responsive enhancer far upstream from the human tissue–type plasminogen activator gene. Bulens F, et al. **J Biol Chem** 1997 Jan 3; 272(1):663–71
Cloning and sequencing of two enterococcal glpK genes and regulation of the encoded glycerol kinases by phosphoenolpyruvate–dependent, phosphotransferase system–catalyzed phosphorylation of a single histidyl residue. Charrier V, et al. **J Biol Chem** 1997 May 30; 272(22):14166–74
Protein kinase C modulates regulation of the CYP1A1 gene by the aryl hydrocarbon receptor. Chen YH, et al. **J Biol Chem** 1996 Oct 18;271(42):26261–6
N–Acetylglucosaminyl transferase regulates the expression of the sulfoglucuronyl glycolipids in specific cell types in cerebellum during development. Chou DKH, et al. **J Biol Chem** 1996 Nov 15;271(46):28868–74
The upstream regulatory region of the carbamoyl–phosphate synthetase I gene controls its tissue–specific, developmental, and hormonal regulation in vivo. Christoffels VM, et al. **J Biol Chem** 1996 Dec 6; 271(49):31243–50
Characterization of the mitogen–activated protein kinase kinase 4 (MKK4)/c–Jun NH2–terminal kinase 1 and MKK3/p38 pathways regulated by MEK kinases 2 and 3. MEK kinase 3 activates MKK3 but does not cause activation of p38 kinase in vivo. Deacon K, et al. **J Biol Chem** 1997 May 30;272(22):14489–96
Up–regulation of protein kinase C–epsilon promotes the expression of cytokine–inducible nitric oxide synthase in RAW 264.7 cells. Díaz–Guerra MJ, et al. **J Biol Chem** 1996 Dec 13;271(50):32028–33
Identification of glycerol–3–phosphate acyltransferase as an adipocyte determination and differentiation factor 1– and sterol regulatory element–binding protein–responsive gene. Ericsson J, et al. **J Biol Chem** 1997 Mar 14;272(11):7298–305
Regulation of interleukin–2 transcription by inducible stable expression of dominant negative and dominant active mitogen–activated protein kinase kinase kinase in jurkat T cells. Evidence for the importance of Ras in a pathway that is controlled by dual receptor stimulation. Faris M, et al. **J Biol Chem** 1996 Nov 1;271(44):27366–73
Transcription of the human folylpoly–gamma–glutamate synthetase gene. Freemantle SJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25373–9
An interferon–gamma–activated site (GAS) is necessary for full expression of the mouse iNOS gene in response to interferon–gamma and lipopolysaccharide. Gao J, et al. **J Biol Chem** 1997 Jan 10;272(2):1226–30
Translational regulation of Na,K–ATPase alpha1 and beta1 polypeptide expression in epithelial cells. Grindstaff KK, et al. **J Biol Chem** 1996 Sep 20;271(38):23211–21
Multiple sequence elements are involved in the transcriptional regulation of the human squalene synthase gene. Guan G, et al. **J Biol Chem** 1997 Apr 11; 272(15):10295–302
Stromelysin–3 induction and interstitial collagenase repression by retinoic acid. Therapeutical implication of receptor–selective retinoids dissociating transactivation and AP–1–mediated transrepression. Guérin E, et al. **J Biol Chem** 1997 Apr 25;272(17):11088–95
cis–Active Ras G2–like sequence implicated in the heterotropic activation of the deoxyadenosine kinase of Lactobacillus acidophilus R–26. Guo S, et al. **J Biol Chem** 1997 Mar 14;272(11):6890–7
Low density lipoprotein receptor–related protein modulates the expression of tissue–type plasminogen activator in human colon fibroblasts. Hardy MM, et al. **J Biol Chem** 1997 Mar 7;272(10):6812–7
Enhancement of migration by protein kinase Calpha and inhibition of proliferation and cell cycle progression by protein kinase Cdelta in capillary endothelial cells. Harrington EO, et al. **J Biol Chem** 1997 Mar 14; 272(11):7390–7
Differential activation of protein kinase C delta and epsilon gene expression by gonadotropin–releasing hormone in alphaT3–1 cells. Autoregulation by protein kinase C. Harris D, et al. **J Biol Chem** 1997 May 23;272(21):13534–40
Identification of functional elements in the promoter region of the human gene for thymidylate synthase and nuclear factors that regulate the expression of the gene. Horie N, et al. **J Biol Chem** 1997 Jul 18;272(29):18375–81
Liver–specific enhancer of the glucokinase gene. Iynedjian PB, et al. **J Biol Chem** 1996 Nov 15;271(46):29113–20
The mitogen–activated protein kinase and JAK–STAT signaling pathways are required for an oncostatin M–responsive element–mediated activation of matrix metalloproteinase 1 gene expression. Korzus E, et al. **J Biol Chem** 1997 Jan 10;272(2):1188–96
Distinct regulation of osmoprotective genes in yeast and mammals. Aldose reductase osmotic response element is induced independent of p38 and stress–activated protein kinase/Jun N–terminal kinase in rabbit kidney cells. Kültz D, et al. **J Biol Chem** 1997 May 16;272(20):13165–70
LOK is a novel mouse STE20–like protein kinase that is expressed predominantly in lymphocytes. Kuramochi S, et al. **J Biol Chem** 1997 Sep 5;272(36):22679–84
Cell type–specific regulation of choline acetyltransferase gene expression. Role of the neuron–restrictive silencer element and cholinergic–specific enhancer sequences. Lönnerberg P, et al. **J Biol Chem** 1996 Dec 27;271(52):33358–65
Bcl–2 modulates telomerase activity. Mandal M, et al. **J Biol Chem** 1997 May 30;272(22):14183–7
Molecular cloning and expression in different microbes of the DNA encoding Pseudomonas putida U phenylacetyl–CoA ligase. Use of this gene to improve the rate of benzylpenicillin biosynthesis in Penicillium chrysogenum. Miñambres B, et al. **J Biol Chem** 1996 Dec 27;271(52):33531–8
Cell–specific expression and regulation of a glucokinase gene locus transgene. Niswender KD, et al. **J Biol Chem** 1997 Sep 5;272(36):22564–9
Binding of NF–Y transcription factor to one of the cis–elements in the myeloperoxidase gene promoter that responds to granulocyte colony–stimulating factor. Orita T, et al. **J Biol Chem** 1997 Sep 12;272(37):23216–23
Identification and characterization of a novel plant phospholipase D that requires polyphosphoinositides and submicromolar calcium for activity in Arabidopsis. Pappan K, et al. **J Biol Chem** 1997 Mar 14;272(11):7048–54
Role of the yeast phosphatidylinositol/phosphatidylcholine transfer protein (Sec14p) in phosphatidylcholine turnover and INO1 regulation. Patton–Vogt JL, et al. **J Biol Chem** 1997 Aug 15;272(33):20873–83
Two distinct TATA–less promoters direct tissue–specific expression of the rat apo–B editing catalytic polypeptide 1 gene. Qian X, et al. **J Biol Chem** 1997 Jul 18; 272(29):18060–70
Characterization of human B creatine kinase gene regulation in the heart in vitro and in vivo. Ritchie ME. **J Biol Chem** 1996 Oct 11;271(41):25485–91
Cooperative binding of NF–Y and Sp1 at the DNase I–hypersensitive site, fatty acid synthase insulin–responsive element 1, located at –500 in the rat fatty acid synthase promoter. Roder K, et al. **J Biol Chem** 1997 Aug 22; 272(34):21616–24
Posttranscriptionally mediated decreases in folylpolyglutamate synthetase gene expression in some folate analogue–resistant variants of the L1210 cell. Evidence for an altered cognate mRNA in the variants affecting the rate of de novo synthesis of the enzyme. Roy K, et al. **J Biol Chem** 1997 Mar 14;272(11):6903–8
Structural organization and promoter analysis of the bovine cytochrome c oxidase subunit VIIc gene. A functional role for YY1. Seelan RS, et al. **J Biol Chem** 1997 Apr 11; 272(15):10175–81
Regulation of phospholipid biosynthetic enzymes by the level of CDP–diacylglycerol synthase activity. Shen H, et al. **J Biol Chem** 1997 Apr 25;272(17):11215–20
Carbohydrate starvation stimulates differential expression of rice alpha–amylase genes that is modulated through complicated transcriptional and posttranscriptional processes. Sheu JJ, et al. **J Biol Chem** 1996 Oct 25; 271(43):26998–7004
Diverse genetic regulatory motifs required for murine adenosine deaminase gene expression in the placenta. Shi D, et al. **J Biol Chem** 1997 Jan 24;272(4):2334–41
Molecular cloning, characterization, and regulation of the human mitochondrial serine hydroxymethyltransferase gene. Stover PJ, et al. **J Biol Chem** 1997 Jan 17; 272(3):1842–8
Orphan receptors chicken ovalbumin upstream promoter transcription factor II (COUP–TFII) and retinoid X receptor (RXR) activate and bind the rat cholesterol 7alpha–hydroxylase gene (CYP7A). Stroup D, et al. **J Biol Chem** 1997 Apr 11;272(15):9833–9
Regulation of phospholipase D in L6 skeletal muscle myoblasts. Role of protein kinase c and relationship to protein synthesis. Thompson MG, et al. **J Biol Chem** 1997 Apr 18;272(16):10910–6
Inducible cAMP early repressor can modulate tyrosine hydroxylase gene expression after stimulation of cAMP synthesis. Tinti C, et al. **J Biol Chem** 1996 Oct 11;

271(41):25375–81
Hsp90 is obligatory for the heme-regulated eIF-2alpha kinase to acquire and maintain an activable conformation. Uma S, et al. **J Biol Chem** 1997 Apr 25;272(17):11648–56
Expression and regulation of the human and mouse aspartylglucosaminidase gene. Uusitalo A, et al. **J Biol Chem** 1997 Apr 4;272(14):9524–30
A cAMP response element and an Ets motif are involved in the transcriptional regulation of flt-1 tyrosine kinase (vascular endothelial growth factor receptor 1) gene. Wakiya K, et al. **J Biol Chem** 1996 Nov 29;271(48):30823–8
Identification of a novel cis-acting negative regulatory element affecting expression of the CYP1A1 gene in rat epidermal cells. Walsh AA, et al. **J Biol Chem** 1996 Sep 13;271(37):22746–53
Accumulation of E2F-4.DP-1 DNA binding complexes correlates with induction of dhfr gene expression during the G1 to S phase transition. Wells JM, et al. **J Biol Chem** 1997 Feb 14;272(7):4483–92
cAMP-dependent negative regulation of rat aldehyde dehydrogenase class 3 gene expression. Xiao Gh, et al. **J Biol Chem** 1997 Feb 7;272(6):3238–45
Involvement of two Sp1 elements in basal endothelial prostaglandin H synthase-1 promoter activity. Xu XM, et al. **J Biol Chem** 1997 Mar 14;272(11):6943–50
Regulation of Src family tyrosine kinase activities in adherent human neutrophils. Evidence that reactive oxygen intermediates produced by adherent neutrophils increase the activity of the p58c-fgr and p53/56lyn tyrosine kinases. Yan SR, et al. **J Biol Chem** 1996 Sep 20;271(38):23464–71
Identification of a palindromic sequence that is responsible for the up-regulation of NAPDH-ferredoxin reductase in a ferredoxin I deletion strain of Azotobacter vinelandii. Yannone SM, et al. **J Biol Chem** 1997 May 30; 272(22):14454–8
Induction of heme oxygenase-1 expression in vascular smooth muscle cells. A link to endotoxic shock. Yet SF, et al. **J Biol Chem** 1997 Feb 14;272(7):4295–301
Regulation of expression of matrix metalloproteinase-9 in early human T cells of the HSB.2 cultured line by the EP3 subtype of prostaglandin E2 receptor. Zeng L, et al. **J Biol Chem** 1996 Nov 1;271(44):27744–50
Regulation of inosine-5'-monophosphate dehydrogenase type II gene expression in human T cells. Role for a novel 5' palindromic octamer sequence. Zimmermann AG, et al. **J Biol Chem** 1997 Sep 5;272(36):22913–23
Transcriptional and post-transcriptional control of lysyl oxidase expression in vascular smooth muscle cells: effects of TGF-beta 1 and serum deprivation. Gacheru SN, et al. **J Cell Biochem** 1997 Jun 1;65(3):395–407
Regulation of rat interstitial collagenase gene expression in growth cartilage and chondrocytes by vitamin D3, interleukin-1 beta, and okadaic acid. Grumbles RM, et al. **J Cell Biochem** 1996 Dec 15;63(4):395–409
Transcriptional regulation of the lysozyme gene in airway gland serous cells. Kai H, et al. **J Cell Biochem** 1996 Jun 1;61(3):350–62
Expression and localization of epitope-tagged protein kinase CK2. Penner CG, et al. **J Cell Biochem** 1997 Mar 15; 64(4):525–37
Differential gene expression of extracellular matrix components in dilated cardiomyopathy. Tyagi SC, et al. **J Cell Biochem** 1996 Nov 1;63(2):185–98
Overexpression of the rat sarcoplasmic reticulum Ca2+ ATPase gene in the heart of transgenic mice accelerates calcium transients and cardiac relaxation. He H, et al. **J Clin Invest** 1997 Jul 15;100(2):380–9
Mitogen-activated protein kinase phosphatase-1 in rat arterial smooth muscle cell proliferation. Lai K, et al. **J Clin Invest** 1996 Oct 1;98(7):1560–7
Hyperexpression of mitogen-activated protein kinase in human breast cancer [see comments] Sivaraman VS, et al. **J Clin Invest** 1997 Apr 1;99(7):1478–83. Comment in: J Clin Invest 1997 Apr 1;99(7):1463–4.
P 53 suppressor gene and cathepsin D expression in correlation with cellular and humoral immunity in cutaneous leishmaniasis. Selim MA, et al. **J Egypt Soc Parasitol** 1996 Dec;26(3):743–53
Upregulation of host mitochondrial ATPase 6 gene in Pneumocystis carinii-infected rat lungs. Asnicar MA, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):38S
Evidence for symbiont-induced alteration of a host's gene expression: irreversible loss of SAM synthetase from Amoeba proteus. Choi JY, et al. **J Eukaryot Microbiol** 1997 Sep-Oct;44(5):412–9
Cloning and sequencing of a cDNA encoding glyceraldehyde-3-phosphate dehydrogenase from Tetrahymena thermophila: growth-associated changes in its mRNA expression. Zhao Y, et al. **J Eukaryot Microbiol** 1997 Sep-Oct;44(5):435–7
Fc gamma R-dependent mitogen-activated protein kinase activation in leukocytes: a common signal transduction event necessary for expression of TNF-alpha and early activation genes. Trotta R, et al. **J Exp Med** 1996 Sep 1; 184(3):1027–35
Gender-dependent regulation of glutamate dehydrogenase expression in periportal and pericentral zones of rat liver lobules. Geerts WJ, et al. **J Histochem Cytochem** 1996 Oct; 44(10):1153–9
Functional effects of overexpression of protein kinase C-alpha, -beta, -delta, -epsilon, and -eta in the mast cell line RBL-2H3. Chang EY, et al. **J Immunol** 1997 Sep 15; 159(6):2624–32
Time-dependent expression of cytochrome P450 genes in primary cultures of well-differentiated human hepatocytes. George J, et al. **J Lab Clin Med** 1997 Jun;129(6):638–48
Heterogeneity of diacylglycerol kinase in terms of molecular structure, biochemical characteristics and gene expression localization in the brain. Goto K, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):251–7 (7 ref.)
Role for sterol regulatory element binding protein in the regulation of farnesyl diphosphate synthase and in the control of cellular levels of cholesterol and triglyceride: evidence from sterol regulation-defective cells. Jackson SM, et al. **J Lipid Res** 1996 Aug;37(8):1712–21
Tissue-specific coordinate regulation of enzymes of cholesterol biosynthesis: sciatic nerve versus liver. Toews AD, et al. **J Lipid Res** 1996 Dec;37(12):2502–9
Developmental expression of the cyclo-oxygenase-1 and cyclo-oxygenase-2 genes in the peri-implantation mouse uterus and their differential regulation by the blastocyst and ovarian steroids. Chakraborty I, et al. **J Mol Endocrinol** 1996 Apr;16(2):107–22
Comparative in vivo expression of the calcitriol-24-hydroxylase gene in kidney and intestine. Demers C, et al. **J Mol Endocrinol** 1997 Feb;18(1):37–48
Selenoenzyme expression in thyroid and liver of second generation selenium- and iodine-deficient rats. Mitchell JH, et al. **J Mol Endocrinol** 1996 Jun;16(3):259–67
Regulation of 11 beta-hydroxysteroid dehydrogenase type 2 activity and mRNA in human choriocarcinoma cells. Pasquarette MM, et al. **J Mol Endocrinol** 1996 Jun; 16(3):269–75
Ornithine decarboxylase overexpression in mouse 10T1/2 fibroblasts: cellular transformation and invasion [see comments] Kubota S, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):567–71. Comment in: J Natl Cancer Inst 1997 Apr 16;89(8):533–7.
Neurotransmitter-mediated regulation of brain aromatase: protein kinase C- and G-dependent induction. Abe-Dohmae S, et al. **J Neurochem** 1996 Nov; 67(5):2087–95
Expression, catalytic activity, and inducibility of cytochrome P450 2E1 (CYP2E1) in the rat central nervous system. Tindberg N, et al. **J Neurochem** 1996 Nov;67(5):2066–73
The CYP2D6B allele is not overrepresented in a population of German patients with idiopathic Parkinson's disease. Gasser T, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov; 61(5):518–20
Immunocytochemical characterization of the expression of inducible and constitutive isoforms of nitric oxide synthase in demyelinating multiple sclerosis lesions. De Groot CJ, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):10–20
Cellular glutathione peroxidase knockout mice express normal levels of selenium-dependent plasma and phospholipid hydroperoxide glutathione peroxidases in various tissues. Cheng WH, et al. **J Nutr** 1997 Aug; 127(8):1445–50
Down-regulation of manganese-superoxide dismutase gene expression in idiopathic nephrotic syndrome. Yoshioka T, et al. **J Pediatr** 1997 May;130(5):800–7
Ontogeny and hormonal basis of female-dominant rat hepatic sulfotransferases. Liu L, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):386–91
17alpha-Hydroxylase gene expression in the bovine ovary: mechanisms regulating expression differ from those in adrenal cells. Demeter Arlotto M, et al. **J Steroid Biochem Mol Biol** 1996 Sep;59(1):21–9
Coordinate expression of beta-galactoside alpha 2,6-sialyltransferase mRNA and enzyme activity in suckling rat jejunum cultured in different media: transcriptional induction by dexamethasone. Kolínská J, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):289–97
Diminution of the O2 responsiveness of the glucagon-dependent activation of the phosphoenolpyruvate carboxykinase gene in rat hepatocytes by long-term culture at venous PO2. Kietzmann T, et al. **Kidney Int** 1997 Feb;51(2):542–7
Regulation of gene expression for tyrosine hydroxylase in oxygen sensitive cells by hypoxia. Millhorn DE, et al. **Kidney Int** 1997 Feb;51(2):527–35
Regulation of tyrosine hydroxylase gene expression during hypoxia: role of Ca2+ and PKC. Raymond R, et al. **Kidney Int** 1997 Feb;51(2):536–41
Control of myeloperoxidase gene expression in developing myeloid cells [comment] Austin GE, et al. **Leuk Res** 1996 Oct;20(10):817–20. Comment on: Leuk Res 1996 Oct;20(10):809–15.
The murine myeloperoxidase gene contains a bipartite distal enhancer, including a novel region regulated by PEBP2/CBF [see comments] Friedman AD, et al. **Leuk Res** 1996 Oct;20(10):809–15. Comment in: Leuk Res 1996 Oct;20(10):817–20.
Different experimental conditions which regulate type II 5'-deiodinase mRNA in rat Harderian gland. Garcia-Macias JF, et al. **Life Sci** 1997;61(2):181–92
Quantitative analysis of cyclooxygenase-2 gene expression on acute gastric injury induced by ischemia-reperfusion in rats. Kishimoto Y, et al. **Life Sci** 1997;60(8):PL127–33
The AP-1 site and MMP gene regulation: what is all the fuss about? Benbow U, et al. **Matrix Biol** 1997 Mar; 15(8-9):519–26 (60 ref.)
Retinoic acid and methylation cis-regulatory elements control the mouse tissue non-specific alkaline phosphatase gene expression. Escalante-Alcalde D, et al. **Mech Dev** 1996 Jun;57(1):21–32
Approaches to define pathways of redox regulation of a eukaryotic gene: the heme oxygenase 1 example. Tyrrell RM. **Methods** 1997 Mar;11(3):313–8
Use of human hepatocytes to study P450 gene induction. Strom SC, et al. **Methods Enzymol** 1996;272:388–401
Biological control and inhibition of induction of nitric oxide synthase. Wu CC, et al. **Methods Enzymol** 1996;268:408–20
Cra-mediated regulation of Escherichia coli adenylate cyclase. Crasnier-Mednansky M, et al. **Microbiology** 1997 Mar;143 (Pt 3):785–92
Regulation of the inducible acetamidase gene of Mycobacterium smegmatis. Parish T, et al. **Microbiology** 1997 Jul;143 (Pt 7):2267–76
Reversion rates in a leuB auxotroph of Escherichia coli K-12 correlate with ppGpp levels during exponential growth. Wright BE, et al. **Microbiology** 1997 Mar;143 (Pt 3):847–54
In vivo calcineurin crystals formed using the baculovirus expression system. Fan GY, et al. **Microsc Res Tech** 1996 May 1;34(1):77–86
Regulation of the aminolevulinate synthase gene in the Syrian hamster Harderian gland: changes during development and circadian rhythm and role of some hormones. Rodriguez C, et al. **Microsc Res Tech** 1996 May 1;34(1):65–70 (50 ref.)
Functional analysis of the promoter and first intron of the human lysyl oxidase gene. Csiszar K, et al. **Mol Biol Rep** 1996;23(2):97–108
A potential role for Elf-1 in terminal transferase gene regulation. Ernst P, et al. **Mol Cell Biol** 1996 Nov; 16(11):6121–31
JAK2 is required for induction of the murine DUB-1 gene. Jaster R, et al. **Mol Cell Biol** 1997 Jun;17(6):3364–72
Mitogen-activated and cyclin-dependent protein kinases selectively and differentially modulate transcriptional enhancement by the glucocorticoid receptor. Krstic MD, et al. **Mol Cell Biol** 1997 Jul;17(7):3947–54
Genetic analysis of regulatory mutants affecting synthesis of extracellular proteinases in the yeast Yarrowia lipolytica: identification of a RIM101/pacC homolog. Lambert M, et al. **Mol Cell Biol** 1997 Jul;17(7):3966–76
Genetic regulation of the qa gene cluster of Neurospora crassa: induction of qa messenger ribonucleic acid and dependency on qa-1 function. Reinert WR, et al. **Mol Cell Biol** 1981 Sep;1(9):829–35
The orphan nuclear receptor estrogen-related receptor alpha is a transcriptional regulator of the human medium-chain acyl coenzyme A dehydrogenase gene. Sladek R, et al. **Mol Cell Biol** 1997 Sep;17(9):5400–9
Stimulation of yeast meiotic gene expression by the glucose-repressible protein kinase Rim15p. Vidan S, et al. **Mol Cell Biol** 1997 May;17(5):2688–97
Purines are required at the 5' ends of newly initiated RNAs for optimal RNA polymerase III gene expression. Zecherle GN, et al. **Mol Cell Biol** 1996 Oct;16(10):5801–10
Quantitative analysis of pancreatic glucokinase gene expression in cultured beta cells by competitive polymerase chain reaction. Borboni P, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):175–81
Post-translational cooperativity of ornithine decarboxylase induction by estrogens and peptide growth factors in human breast cancer cells. Huber M, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):211–8
Aberrant expression of the constitutive endothelial nitric oxide synthase gene in Alzheimer disease. de la Monte SM, et al. **Mol Chem Neuropathol** 1997 Jan-Feb;30(1-2):139–59
Angiotensin II and potassium regulate human CYP11B2 transcription through common cis-elements. Clyne CD, et al. **Mol Endocrinol** 1997 May;11(5):638–49
Molecular cloning and characterization of cDNAs for anionic and neutral peroxidases from suspension-cultured-cells of sweet potato and their differential expression in response to stress. Huh GH, et al. **Mol Gen Genet** 1997 Jul; 255(4):382–91
Reciprocal regulation of delta 1-pyrroline-5-carboxylate synthetase and proline dehydrogenase genes controls proline levels during and after osmotic stress in plants. Peng Z, et al. **Mol Gen Genet** 1996 Dec 13;253(3):334–41
Treatment with DNA-damaging agents increases expression of polA'-'lacZ gene fusions in Escherichia coli K-12. Wandt G, et al. **Mol Gen Genet** 1997 Mar 18;254(1):98–103
A novel protease homolog differentially expressed in breast and ovarian cancer. Anisowicz A, et al. **Mol Med** 1996 Sep;2(5):624–36
The two-step lysis system of pneumococcal bacteriophage EJ-1 is functional in gram-negative bacteria: triggering of the major pneumococcal autolysin in Escherichia coli. Diaz E, et al. **Mol Microbiol** 1996 Feb;19(4):667–81
Degradation by proteases Lon, Clp and HtrA, of Escherichia coli proteins aggregated in vivo by heat shock; HtrA protease action in vivo and in vitro. Laskowska E, et al. **Mol Microbiol** 1996 Nov;22(3):555–71
RAG3 gene and transcriptional regulation of the pyruvate decarboxylase gene in Kluyveromyces lactis. Prior C, et al. **Mol Microbiol** 1996 May;20(4):765–72
Site-directed mutagenesis of the katG gene of Mycobacterium tuberculosis: effects on catalase-peroxidase activities and isoniazid resistance. Rouse DA, et al. **Mol Microbiol** 1996 Nov;22(3):583–92
Regulation of expression, genetic organization and substrate specificity of xylose uptake in Bacillus megaterium.

Schmiedel D, et al. **Mol Microbiol** 1997 Mar;23(5):1053–62

Acetylglutamate synthase from Neurospora crassa: structure and regulation of expression. Yu YG, et al. **Mol Microbiol** 1996 Nov;22(3):545–54

Developmentally regulated expression of the CYP4A genes in the spontaneously hypertensive rat kidney. Kroetz DL, et al. **Mol Pharmacol** 1997 Sep;52(3):362–72

Ontogeny and hormonal basis of male-dominant rat hepatic sulfotransferases. Liu L, et al. **Mol Pharmacol** 1996 Sep; 50(3):565–72

Differential expression of the UGT1A locus in human liver, biliary, and gastric tissue: identification of UGT1A7 and UGT1A10 transcripts in extrahepatic tissue. Strassburg CP, et al. **Mol Pharmacol** 1997 Aug;52(2):212–20

Expression of class I O-methyltransferase in healthy and TMV-infected tobacco. Jaeck E, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):681–8

A gene for superoxide dismutase from Xanthomonas campestris pv. campestris and its expression during bacterial-plant interactions. Smith SG, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):584–93

beta-Hexosaminidase immunolocalization and alpha- and beta-subunit gene expression in the rat testis and epididymis. Hermo L, et al. **Mol Reprod Dev** 1997 Mar; 46(3):227–42

Aromatic L-amino acid decarboxylase: a neglected and misunderstood enzyme. Berry MD, et al. **Neurochem Res** 1996 Sep;21(9):1075–87 (137 ref.)

Regulation of matrix metalloproteinase expressions in astrocytes, microglia and neurons. Gottschall PE, et al. **Neuroimmunomodulation** 1996 Mar-Jun;3(2-3):69–75 (57 ref.)

Parturition upregulates nitric oxide synthase activity in the rat anterior pituitary gland. Okere CO, et al. **Neuroreport** 1997 Mar 3;8(4):817–21

Similar upstream regulatory elements of genes that encode the two largest subunits of RNA polymerase II in Saccharomyces cerevisiae. Jansma DB, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4543–51

Transcription factor Sp3 antagonizes activation of the ornithine decarboxylase promoter by Sp1. Kumar AP, et al. **Nucleic Acids Res** 1997 May 15;25(10):2012–9

Transcriptional activation of the matrix metalloproteinase-9 gene in an H-ras and v-myc transformed rat embryo cell line. Himelstein BP, et al. **Oncogene** 1997 Apr 24; 14(16):1995–8

Differential regulation of interstitial collagenase (MMP-1) gene expression by ETS transcription factors. Westermarck J, et al. **Oncogene** 1997 Jun 5;14(22):2651–60

Ontogeny of nitric oxide synthase activity and endotoxin-mediated damage in the neonatal rat colon. Brown JF, et al. **Pediatr Res** 1997 May;41(5):635–40

Hyperoxic regulation of lung heme oxygenase in neonatal rats. Dennery PA, et al. **Pediatr Res** 1996 Dec;40(6):815–21

Tumour necrosis factor-alpha induces cyclo-oxygenase-2 gene expression in first trimester trophoblasts: suppression by glucocorticoids and NSAIDs. Imseis HM, et al. **Placenta** 1997 Sep;18(7):521–6

Differential expression of CuZn- and Fe-superoxide dismutase genes of tobacco during development, oxidative stress, and hormonal treatments. Kurepa J, et al. **Plant Cell Physiol** 1997 Apr;38(4):463–70

The promoter of a H2O2-inducible, Arabidopsis glutathione S-transferase gene contains closely linked OBF- and OBP1-binding sites. Chen W, et al. **Plant J** 1996 Dec; 10(6):955–66

Cinnamate-4-hydroxylase expression in Arabidopsis. Regulation in response to development and the environment. Bell-Lelong DA, et al. **Plant Physiol** 1997 Mar;113(3):729–38

Developmental regulation of pyrroline-5-carboxylate reductase gene expression in Arabidopsis. Hua XJ, et al. **Plant Physiol** 1997 Aug;114(4):1215–24

Sequences necessary for nitrate-dependent transcription of Arabidopsis nitrate reductase genes. Hwang CF, et al. **Plant Physiol** 1997 Mar;113(3):853–62

Divergent fructokinase genes are differentially expressed in tomato. Kanayama Y, et al. **Plant Physiol** 1997 Apr; 113(4):1379–84

Isolation of a cDNA and a genomic clone encoding cinnamate 4-hydroxylase from Arabidopsis and its expression manner in planta. Mizutani M, et al. **Plant Physiol** 1997 Mar;113(3):755–63

Differential expression and properties of starch branching enzyme isoforms in developing wheat endosperm. Morell MK, et al. **Plant Physiol** 1997 Jan;113(1):201–8

Gene structure and differential regulation of the Rhizobium-induced peroxidase gene rip1. Peng HM, et al. **Plant Physiol** 1996 Dec;112(4):1437–46

Changes in the activity and mRNA of cinnamyl alcohol dehydrogenase during tracheary element differentiation in zinnia. Sato Y, et al. **Plant Physiol** 1997 Feb;113(2):425–30

Sulfur availability and the SAC1 gene control adenosine triphosphate sulfurylase gene expression in Chlamydomonas reinhardtii. Yildiz FH, et al. **Plant Physiol** 1996 Oct;112(2):669–75

Cytoplasmic sequestration of an O6-methylguanine-DNA methyltransferase enhancer binding protein in DNA repair-deficient human cells. Chen FY, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4348–53

Limited up-regulation of DNA methyltransferase in human colon cancer reflecting increased cell proliferation. Lee PJ, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10366–70

Dominant negative inhibition by fragments of a monomeric enzyme. Michaels JE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14452–5

A role for Sp and nuclear receptor transcription factors in a cardiac hypertrophic growth program. Sack MN, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6438–43

Expression of a gene encoding a tRNA synthetase-like protein is enhanced in tumorigenic human myeloid leukemia cells and is cell cycle stage- and differentiation-dependent. Sen S, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6164–9

Identification of vascular endothelial genes differentially responsive to fluid mechanical stimuli: cyclooxygenase-2, manganese superoxide dismutase, and endothelial cell nitric oxide synthase are selectively up-regulated by steady laminar shear stress. Topper JN, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10417–22

Mitogen-activated protein kinase kinase 7 is an activator of the c-Jun NH2-terminal kinase. Tournier C, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7337–42

Targeted overexpression of protein kinase C beta2 isoform in myocardium causes cardiomyopathy. Wakasaki H, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9320–5

Cloning and characterization of a putative human serine/threonine protein kinase transcriptionally modified during anisotonic and isotonic alterations of cell volume. Waldegger S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4440–5

cAMP-response element modulator tau is a positive regulator of testis angiotensin converting enzyme transcription. Zhou Y, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12262–6

Overexpression of the heme oxygenase gene in renal cell carcinoma. Goodman AI, et al. **Proc Soc Exp Biol Med** 1997 Jan;214(1):54–61

Transcriptional regulation of the human choline acetyltransferase gene. Hersh LB, et al. **Prog Brain Res** 1996;109:47–54

Nutritional and hormonal regulation of expression of the gene for malic enzyme. Goodridge AG, et al. **Prog Nucleic Acid Res Mol Biol** 1996;52:89–122 (72 ref.)

Regulation of prostaglandin H synthase-2 in chorion and decidual cells. Edwin S, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):211–6

Pharmacological and molecular evidence for the expression of the two steroid 5 alpha-reductase isozymes in normal and hyperplastic human prostatic cells in culture. Berthaut I, et al. **Prostate** 1997 Aug 1;32(3):155–63

Overexpression of human N-myristoyltransferase utilizing a T7 polymerase gene expression system. Raju RV, et al. **Protein Expr Purif** 1996 Jun;7(4):431–7

Regulation and properties of the rat Ca2+/calmodulin-dependent protein kinase IV gene and its protein products. Means AR, et al. **Recent Prog Horm Res** 1997;52:389–406; discussion 406–7 (57 ref.)

RNase III autoregulation: structure and function of rncO, the posttranscriptional "operator". Matsunaga J, et al. **RNA** 1996 Dec;2(12):1228–40

The stability of lymphocytic beta 1,4-galactosyltransferase expression during pregnancy and lactation. Jeddi PA, et al. **Scand J Immunol** 1997 Feb;45(2):145–50

Control of memory formation through regulated expression of a CaMKII transgene. Mayford M, et al. **Science** 1996 Dec 6;274(5293):1678–83

25-Hydroxyvitamin D3 1alpha-hydroxylase and vitamin D synthesis. Takeyama K, et al. **Science** 1997 Sep 19; 277(5333):1827–30

Genetic aspects of carbon catabolite repression of the STA2 glucoamylase gene in Saccharomyces cerevisiae. Kartasheva NN, et al. **Yeast** 1996 Oct;12(13):1297–300

Regulation of ATP-citrate lyase gene transcription. Kim KS, et al. **Yonsei Med J** 1996 Jun;37(3):214–24

[Gastric proton pump: genes and their expression] Futai M. **Nippon Rinsho** 1996 Apr;54(4):1138–43 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Regulation of secretory leukoprotease inhibitor gene expression] Kikuchi T, et al. **Nippon Rinsho** 1996 Feb; 54(2):405–10 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Expression of nm23/NDP kinase and cancer metastasis] Okada K, et al. **Nippon Rinsho** 1996 Mar;54(3):845–53 (23 ref.) (Eng. Abstr.) **(Jpn)**

[Regulation of gene expression of L-histidine decarboxylase and histamine N-methyl-transferase, and its relevance to the pathogenesis of bronchial asthma] Yamauchi K. **Nippon Rinsho** 1996 Feb;54(2):377–88 (34 ref.) (Eng. Abstr.) **(Jpn)**

[Effect of thyroid hormones on transcription and structural organization of gene for malic enzyme in the rat liver] Adylova AT, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):203–5 **(Rus)**

[Molecular genetic mechanisms of regulating activity of the estS gene in transgenic Drosophila] Dzitoeva SG, et al. **Dokl Akad Nauk** 1997 Feb;352(5):695–8 **(Rus)**

[Lux-regulon from Vibrio fisheri reduces type 1 restriction in Escherichia coli K12 cells] Zavil'gel'skiĭ GB, et al. **Genetika** 1996 Aug;32(8):1148–52 (Eng. Abstr.) **(Rus)**

[Escherichia coli homoserine kinase gene expression in mammalian cells] Abramian LG, et al. **Mol Biol (Mosk)** 1996 Jul-Aug;30(4):838–45 **(Rus)**

[Structure ond regulation of gene expression of tyrosine aminotransferase and proopiomelanocortin in mammals] Mertvetsov NP. **Vestn Ross Akad Med Nauk** 1997;(8):10–5 (50 ref.) **(Rus)**

[Comparative analysis of expression of genes for 2',5'-oligoadenylate synthetase and mRNA for dsRNA-protein kinase in human fibroblasts infected with the Sindbis alphavirus and induced by alpha-interferon] Sokolova TM, et al. **Vopr Virusol** 1997 May-Jun; 42(3):98–102 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Aspirin induces increased expression of both prostaglandin H synthase-1 and prostaglandin H synthase-2 in cultured human placental trophoblast. Johnson RD, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):78–85

Regulation of inducible and neuronal nitric oxide synthase gene expression by interferon-gamma and VIP. Bandyopadhyay A, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1790–7

Early divergent lung antioxidant enzyme expression in response to lipopolysaccharide. Clerch LB, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L949–54

bFGF induces BCK promoter-driven expression in muscle via increased binding of a nuclear protein. Kim L, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C223–9

Modulation of SERCA2 expression by thyroid hormone and norepinephrine in cardiocytes: role of contractility. Muller A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1876–85

EGF and TGF-beta regulate neutral endopeptidase expression in renal vascular smooth muscle cells. Tharaux PL, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1836–43

Nicotine enhances expression of the neutrophil elastase gene and protein in a human myeloblast/promyelocyte cell line. Armstrong LW, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1520–4

Hypolipidemic effect of peroxisome proliferators. Transcriptional suppression of apolipoprotein C-III. Hertz R, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:731–3

Analysis of peroxisome proliferator-responsive enhancer of the rat acyl-CoA oxidase gene. Osumi T, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:202–13

Regulation of the expression of lipogenic enzyme genes by carbohydrate. Towle HC, et al. **Annu Rev Nutr** 1997; 17:405–33 (135 ref.)

Sequence specific antisense oligonucleotide analog interference with spermidine/spermine N1-acetyltransferase gene expression. Fogel-Petrovic M, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2517–23

Antifungal azoxybacilin exhibits activity by inhibiting gene expression of sulfite reductase. Aoki Y, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):127–32

Antisense-protein kinase A: a single-gene-based therapeutic approach. Cho-Chung YS, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):217–23 (20 ref.)

Protein kinase C as a target for cancer therapy. Glazer RI. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):235–8

Regulation of CYP3A9 gene expression by estrogen and catalytic studies using cytochrome P450 3A9 expressed in Escherichia coli. Wang H, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):365–72

Thrombin promotes activation of matrix metalloproteinase-2 produced by cultured vascular smooth muscle cells. Galis ZS, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar; 17(3):483–9

Involvement of nuclear factor kappa B in the regulation of cyclooxygenase-2 expression by interleukin-1 in rheumatoid synoviocytes. Crofford LJ, et al. **Arthritis Rheum** 1997 Feb;40(2):226–36

A cis-trans interaction at the 3'-untranslated region of ribonucleotide reductase mRNA is regulated by TGF-beta 1, TGF-beta 2, and TGF-beta 3. Amara FM, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):347–51

The mitogen-induced lysophospholipid:acyl-CoA acyltransferase (LAT) expression in human T-lymphocytes is diminished by hydrocortisone. Kerkhoff C, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):632–8

Human chorionic gonadotropin induces nitric oxide synthase mRNA in mouse peritoneal macrophages. Kim HM, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):548–52

Interleukin-4 inhibits the gene expression and biosyntheis of cytosolic phospholipase A2 in lipopolysaccharide stimulated U937 macrophage cell line and freshly prepared adherent rheumatoid synovial cells. Kuroda A, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):40–3

Molecular cloning and characterization of a novel human receptor protein tyrosine phosphatase gene, hPTP-J: down-regulation of gene expression by PMA and calcium ionophore in Jurkat T lymphoma cells. Wang B, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):77–81

Impairment by interleukin 1 beta and tumour necrosis factor alpha of the glucagon-induced increase in phosphoenolpyruvate carboxykinase gene expression and gluconeogenesis in cultured rat hepatocytes [published erratum appears in Biochem J 1997 Feb 1;321(Pt 3):903] Christ B, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):161–6

Inhibition of the expression of ornithine decarboxylase and c-Myc by cell-permeant ceramide in difluoromethylornithine-resistant leukaemia cells. Flamigni F, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):783–9

The co-mitogenic combination of transforming growth factor beta 1 and bombesin protects protein kinase C-delta from late-phase down-regulation, despite synergy in diacylglycerol accumulation. Olivier AR, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):519-25

Inhibition of hormone-sensitive lipase gene expression by cAMP and phorbol esters in 3T3-F442A and BFC-1 adipocytes. Plée-Gautier E, et al. **Biochem J** 1996 Sep 15; 318 (Pt 3):1057-63

Plasmodium falciparum CTP:phosphocholine cytidylyltransferase expressed in Escherichia coli: purification, characterization and lipid regulation. Yeo HJ, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):903-10

Effects of insulin, epinephrine, and glucose on regulation of transcription of the serine dehydratase gene in newborn dogs. Feng BC, et al. **Biochem Mol Med** 1996 Apr; 57(2):91-6

Lung CuZn-superoxide dismutase and catalase gene expression in premature rabbits treated intratracheally with antioxidant-surfactant liposomes. Walther FJ, et al. **Biochem Mol Med** 1996 Dec;59(2):169-73

Regulation of the fatty acid synthase promoter by retinoic acid. Roder K, et al. **Biochem Soc Trans** 1996 May; 24(2):233S

Regulation of the fatty acid synthase gene by retinoic acid in HepG2 cells is mediated by an E-box-containing multihormonal response element and two neighbouring upstream sequences. Roder KH, et al. **Biochem Soc Trans** 1997 May;25(2):157S

The antitumor agent cisplatin inhibits DNA gyrase and preferentially induces gyrB gene expression in Escherichia coli. Neumann S, et al. **Biol Chem** 1996 Nov;377(11):731-9

Transcriptional induction of Acyl-CoA oxidase by dehydroepiandrosterone sulfate in cultured rat hepatocytes. Yamada J, et al. **Biol Pharm Bull** 1996 Apr;19(4):630-1

Dexamethasone represses phorbol ester-, forskolin-, and calcium-stimulated expression of a preproenkephalin A promoter-chloramphenicol acetyltransferase gene via a receptor-mediated mechanism. Crabb DW, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):103-8

Vitamin D increases expression of the tyrosine hydroxylase gene in adrenal medullary cells. Puchacz E, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):193-6

Induction of the alkyltransferase (MGMT) gene by DNA damaging agents and the glucocorticoid dexamethasone and comparison with the response of base excision repair genes. Grombacher T, et al. **Carcinogenesis** 1996 Nov; 17(11):2329-36

Benzo[a]pyrene up-regulates cyclooxygenase-2 gene expression in oral epithelial cells. Kelley DJ, et al. **Carcinogenesis** 1997 Apr;18(4):795-9

Activation of mitogen-activated protein kinases by green tea polyphenols: potential signaling pathways in the regulation of antioxidant-responsive element-mediated phase II enzyme gene expression. Yu R, et al. **Carcinogenesis** 1997 Feb;18(2):451-6

Glucocorticoids inhibit oncostatin M-induced phospholipase A2 gene expression in human hepatoma cells. Haselmann J, et al. **Cytokine** 1997 Mar;9(3):199-205

Long-chain fatty acids inhibit acetyl-CoA carboxylase gene expression in the pancreatic beta-cell line INS-1. Brun T, et al. **Diabetes** 1997 Mar;46(3):393-400

Induction of hepatic glucose-6-phosphatase gene expression by lipid infusion [published erratum appears in Diabetes 1997 Mar;46(3):536] Massillon D, et al. **Diabetes** 1997 Jan; 46(1):153-7

Alteration of Na,K-ATPase isoenzymes in diabetic cardiomyopathy: effect of dietary supplementation with fish oil (n-3 fatty acids) in rats. Gerbi A, et al. **Diabetologia** 1997 May;40(5):496-505

Regulation of the hepatic CYP 2E1 gene during chronic alcohol exposure: lack of an ethanol response element in the proximal 5'-flanking sequence. McGehee RE Jr, et al. **DNA Cell Biol** 1997 Jun;16(6):725-36

In vivo protein-DNA interactions on a glucocorticoid response unit of a liver-specific gene: hormone-induced transcription factor binding to constitutively open chromatin. Zimmermann PL, et al. **DNA Cell Biol** 1997 Jun;16(6):713-23

Suppression of constitutive cytochrome P450 gene expression by epidermal growth factor receptor ligands in cultured rat hepatocytes. Ching KZ, et al. **Drug Metab Dispos** 1996 May;24(5):542-6

Regulation of cytochrome P450 expression by inhibitors of hydroxymethylglutaryl-coenzyme A reductase in primary cultured rat hepatocytes and in rat liver. Kocarek TA, et al. **Drug Metab Dispos** 1996 Nov;24(11):1197-204

Regulation of rat hepatic sulfotransferase gene expression by glucocorticoid hormones. Runge-Morris M, et al. **Drug Metab Dispos** 1996 Oct;24(10):1095-101

Regulation of cytochrome P4501A1 expression in rat small intestine. Zhang QY, et al. **Drug Metab Dispos** 1997 Jan; 25(1):21-6

Induction of cytochrome P450 genes by ethanol in maize. Potter S, et al. **Drug Metabol Drug Interact** 1995; 12(3-4):317-27

Subunit change in cytochrome c oxidase: identification of the oxygen switch in Dictyostelium. Bisson R, et al. **EMBO J** 1997 Feb 17;16(4):739-49

Mouse vitamin D-24-hydroxylase: molecular cloning, tissue distribution, and transcriptional regulation by 1alpha,25-dihydroxyvitamin D3. Akeno N, et al. **Endocrinology** 1997 Jun;138(6):2233-40

Interleukin-1 beta stimulates ovarian phosphoipase A2 (PLA2) expression and activity: up-regulation of both secretory and cytosolic PLA2. Kol S, et al. **Endocrinology** 1997 Jan;138(1):314-21

Estrogen regulation of peptidylglycine alpha-amidating monooxygenase expression in anterior pituitary gland. el Meskini R, et al. **Endocrinology** 1997 Jan;138(1):379-88

Progesterone inhibits 20alpha-hydroxysteroid dehydrogenase expression in the rat corpus luteum through the glucocorticoid receptor. Sugino N, et al. **Endocrinology** 1997 Oct;138(10):4497-500

Alpha 1-adrenergic stimulation inhibits 3,5,3'-triiodothyronine-induced expression of the rat heart sarcoplasmic reticulum Ca2+ adenosine triphosphatase gene. Wu PS, et al. **Endocrinology** 1997 Jan;138(1):114-20

Regulation of human interstitial collagenase (matrix metalloproteinase-1) promoter activity by fibroblast growth factor. Aho S, et al. **Eur J Biochem** 1997 Jul 15; 247(2):503-10

Regulatory mechanisms involved in activator-protein-1 (AP-1)-mediated activation of glutathione-S-transferase gene expression by chemical agents. Ainbinder E, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):49-57

Glutamine inhibits the lowering effect of glucose on the level of phosphoenolpyruvate carboxykinase mRNA in isolated rat hepatocytes. Lavoinne A, et al. **Eur J Biochem** 1996 Dec 15;242(3):537-43

Metalloelastase expression in a mouse macrophage cell line--regulation by 4beta-phorbol 12-myristate 13-acetate, lipopolysaccharide and dexamethasone. Monet-Kuntz C, et al. **Eur J Biochem** 1997 Jul 15;247(2):588-95

Immunological demonstration of protein kinase C mu in murine tissues and various cell lines. Differential recognition of phosphorylated forms and lack of down-regulation upon 12-O-tetradecanoylphorphol-13-acetate treatment of cells. Rennecke J, et al. **Eur J Biochem** 1996 Dec 1;242(2):428-32

Regulation of glutamic acid decarboxylase mRNA expression in rat brain after sertraline treatment. Giardino L, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):183-7

Induction of tyrosine hydroxylase by forskolin: modulation with age. Tümer N, et al. **Eur J Pharmacol** 1997 Apr 11; 324(1):57-62

Modification of sarcoplasmic reticulum gene expression in pressure overload cardiac hypertrophy by etomoxir. Zarain-Herzberg A, et al. **FASEB J** 1996 Sep;10(11):1303-9

Iron modulation of LPS-induced manganese superoxide dismutase gene expression in rat tissues. De Leo ME, et al. **FEBS Lett** 1997 Feb 17;403(2):131-5

Long-chain fatty acids suppress the induction of urea cycle enzyme genes by glucocorticoid action. Tomomura M, et al. **FEBS Lett** 1996 Dec 16;399(3):310-2

Tissue differences in antioxidant enzyme gene expression in response to endotoxin. Ghosh B, et al. **Free Radic Biol Med** 1996;21(4):533-40

Taurine chloramine inhibits prostaglandin E2 production in activated RAW 264.7 cells by post-transcriptional effects on inducible cyclooxygenase expression. Quinn MR, et al. **Immunol Lett** 1996 May;50(3):185-8

Failure of L-NAME to cause inhibition of nitric oxide synthesis: role of inducible nitric oxide synthase. Miller MJ, et al. **Inflamm Res** 1996 Jun;45(6):272-6

Generation of an anti-tumour immune response in a non-immunogenic tumour: HSVtk killing in vivo stimulates a mononuclear cell infiltrate and a Th1-like profile of intratumoural cytokine expression. Vile RG, et al. **Int J Cancer** 1997 Apr 10;71(2):267-74

oxyR-dependent induction of Escherichia coli grx gene expression by peroxide stress. Tao K. **J Bacteriol** 1997 Sep; 179(18):5967-70

Expression of hepatic pyruvate carboxylase mRNA in C57BL/6J Ah(b/b) and congenic Ah((d/d)) mice exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin. Ilian MA, et al. **J Biochem Toxicol** 1996;11(1):51-6

Fatty acids rapidly induce the carnitine palmitoyltransferase I gene in the pancreatic beta-cell line INS-1. Assimacopoulos-Jeannet F, et al. **J Biol Chem** 1997 Jan 17;272(3):1659-64

cAMP activates the expression of stearoyl-CoA desaturase gene 1 during early preadipocyte differentiation. Casimir DA, et al. **J Biol Chem** 1996 Nov 22;271(47):29847-53

Differential regulation of the two neuronal nitric-oxide synthase gene promoters by the Oct-2 transcription factor. Deans Z, et al. **J Biol Chem** 1996 Dec 13;271(50):32153-8

Specific increase in p85alpha expression in response to dexamethasone is associated with inhibition of insulin-like growth factor-I stimulated phosphatidylinositol 3-kinase activity in cultured muscle cells. Giorgino F, et al. **J Biol Chem** 1997 Mar 14;272(11):7455-63

The glucocorticoid-responsive gene cascade. Activation of the rat arginase gene through induction of C/EBPbeta. Gotoh T, et al. **J Biol Chem** 1997 Feb 7;272(6):3694-8

Hypoxia-inducible factor-1 mediates transcriptional activation of the heme oxygenase-1 gene in response to hypoxia. Lee PJ, et al. **J Biol Chem** 1997 Feb 28; 272(9):5375-81

5-Azadeoxycytidine-induced chromatin remodeling of the inactive X-linked HPRT gene promoter occurs prior to transcription factor binding and gene reactivation. Litt MD, et al. **J Biol Chem** 1997 Jun 6;272(23):14921-6

Functional requirement of the hypoxia-responsive element in the activation of the inducible nitric oxide synthase promoter by the iron chelator desferrioxamine. Melillo G, et al. **J Biol Chem** 1997 May 2;272(18):12236-43

Constitutive and beta-naphthoflavone-induced expression of the human gamma-glutamylcysteine synthetase heavy subunit gene is regulated by a distal antioxidant response element/TRE sequence. Mulcahy RT, et al. **J Biol Chem** 1997 Mar 14;272(11):7445-54

Cell type-specific inhibition of keratinocyte collagenase-1 expression by basic fibroblast growth factor and keratinocyte growth factor. A common receptor pathway. Pilcher BK, et al. **J Biol Chem** 1997 Jul 18;272(29):18147-54

Regulation of stearoyl-CoA desaturase 1 mRNA stability by polyunsaturated fatty acids in 3T3-L1 adipocytes. Sessler AM, et al. **J Biol Chem** 1996 Nov 22; 271(47):29854-8

Human proteinase-3 expression is regulated by PU.1 in conjunction with a cytidine-rich element. Sturrock A, et al. **J Biol Chem** 1996 Dec 13;271(50):32392-402

A 65-kDa protein mediates the positive role of heme in regulating the transcription of CYP2B1/B2 gene in rat liver. Sultana S, et al. **J Biol Chem** 1997 Apr 4; 272(14):8895-900

Mechanisms of suppression of inducible nitric-oxide synthase (iNOS) expression in interferon (IFN)-gamma-stimulated RAW 264.7 cells by dexamethasone. Evidence for glucocorticoid-induced degradation of iNOS protein by calpain as a key step in post-transcriptional regulation. Walker G, et al. **J Biol Chem** 1997 Jun 27;272(26):16679-87

Transcriptional regulation of prostaglandin synthase 2 gene expression by platelet-derived growth factor and serum. Xie W, et al. **J Biol Chem** 1996 Dec 6;271(49):31742-8

Role of protein kinase A in collagenase-1 gene regulation by prostaglandin E1: studies in a rabbit synoviocyte cell line, HIG-82. Suzuki K, et al. **J Bone Miner Res** 1997 Apr; 12(4):561-7

Transcriptional downregulation of stromelysin by tetracycline. Jonat C, et al. **J Cell Biochem** 1996 Mar 1; 60(3):341-7

Basic FGF regulates interstitial collagenase gene expression in human smooth muscle cells. Kennedy SH, et al. **J Cell Biochem** 1997 Apr;65(1):32-41

Nitric oxide releasing reagent, S-nitroso-N-acetylpenicillamine, enhances the expression of manganese superoxide dismutase mRNA in rat vascular smooth muscle cells. Sano H, et al. **J Cell Biochem** 1996 Jul;62(1):50-5

Transforming growth factor beta1 inhibits collagenase 3 expression by transcriptional and post-transcriptional mechanisms in osteoblast cultures. Rydziel S, et al. **J Cell Physiol** 1997 Feb;170(2):145-52

TGFbeta1 regulates gene expression of its own converting enzyme furin. Blanchette F, et al. **J Clin Invest** 1997 Apr 15;99(8):1974-83

Nerve growth factor induces galanin gene expression in the rat basal forebrain: implications for the treatment of cholinergic dysfunction. Planas B, et al. **J Comp Neurol** 1997 Mar 24;379(4):563-70

Regulation of tyrosinase mRNA in mouse melanoma cells by alpha-melanocyte-stimulating hormone. Rungta D, et al. **J Invest Dermatol** 1996 Nov;107(5):689-93

Transcriptional regulation of the human cholesterol 7 alpha-hydroxylase gene (CYP7A) in HepG2 cells. Wang DP, et al. **J Lipid Res** 1996 Sep;37(9):1831-41

Brain-derived neurotrophic factor spares choline acetyltransferase mRNA following axotomy of motor neurons in vivo. Wang W, et al. **J Neurosci Res** 1997 Jan 15;47(2):134-43

Vitamin A regulates genes involved in hepatic gluconeogenesis in mice: phosphoenolpyruvate carboxykinase, fructose-1,6-bisphosphatase and 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Shin DJ, et al. **J Nutr** 1997 Jul;127(7):1274-8

Selenium regulation of classical glutathione peroxidase expression requires the 3' untranslated region in Chinese hamster ovary cells. Weiss SL, et al. **J Nutr** 1997 Jul; 127(7):1304-10

2,3,7,8-tetrachlorodibenzo-p-dioxin modulates expression of the prostaglandin G/H synthase-2 gene in rat thymocytes. Olnes MJ, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1566-73

An okadaic acid-sensitive pathway involved in the phenobarbital-mediated induction of CYP2B gene expression in primary rat hepatocyte cultures. Sidhu JS, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):1122-9

Distinct regulation of two hydroxysteroid sulfotransferases, ST2A1 and ST2A2, by growth hormone: a unique type of growth hormone regulation in rats. Ueda R, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):1117-21

Comparison of inducible nitric oxide synthase gene expression and lung inflammation following intratracheal instillation of silica, coal, carbonyl iron, or titanium dioxide in rats. Blackford JA Jr, et al. **J Toxicol Environ Health** 1997 Jun 27;51(3):203-18

Regulation of platelet-derived growth factor isoform-mediated expression of prostaglandin G/H synthase in mesangial cells. Goppelt-Struebe M, et al. **Kidney Int** 1996 Jul;50(1):71-8

Interleukin-4, transforming growth factor beta 1, and dexamethasone inhibit superantigen-induced prostaglandin E2-dependent collagenase gene expression through their action on cyclooxygenase-2 and cytosolic phospholipase

A2. Mehindate K, et al. **Lab Invest** 1996 Oct;75(4):529–38
Thyroid hormone upregulates Na,K–ATPase alpha and beta mRNA in primary cultures of proximal tubule cells. Lin HH, et al. **Life Sci** 1997;60(6):375–82
Tumor necrosis factor alpha augments the expression of glucose–6–phosphate dehydrogenase in rat hepatic endothelial and Kupffer cells. Spolarics Z, et al. **Life Sci** 1997;60(8):565–71
Expression of mRNA encoding intestinal type alkaline phosphatase in rat liver and its increase by fat–feeding. Goseki–Sone M, et al. **Liver** 1996 Dec;16(6):358–64
Decorin regulates collagenase gene expression in fibroblasts adhering to vitronectin. Huttenlocher A, et al. **Matrix Biol** 1996 Sep;15(4):239–50
Restricted expression and retinoic acid–induced downregulation of the retinaldehyde dehydrogenase type 2 (RALDH–2) gene during mouse development. Niederreither K, et al. **Mech Dev** 1997 Feb;62(1):67–78
Calreticulin inhibits glucocorticoid– but not cAMP–sensitive expression of tyrosine aminotransferase gene in cultured McA–RH7777 hepatocytes. Burns K, et al. **Mol Cell Biochem** 1997 Jun;171(1–2):37–43
Identification of mouse histone deacetylase 1 as a growth factor–inducible gene. Bartl S, et al. **Mol Cell Biol** 1997 Sep;17(9):5033–43
Multiple signalling pathways trigger the exquisite sensitivity of yeast gluconeogenic mRNAs to glucose. Yin Z, et al. **Mol Microbiol** 1996 May;20(4):751–64
Rat 17 beta–hydroxysteroid dehydrogenase type IV is a novel peroxisome proliferator–inducible gene. Corton JC, et al. **Mol Pharmacol** 1996 Nov;50(5):1157–66
Thyroid regulation of NADPH:cytochrome P450 oxidoreductase: identification of a thyroid–responsive element in the 5'–flank of the oxidoreductase gene. O'Leary KA, et al. **Mol Pharmacol** 1997 Jul;52(1):46–53
Expression of enzymatically active CYP3A4 by Caco–2 cells grown on extracellular matrix–coated permeable supports in the presence of 1alpha,25–dihydroxyvitamin D3. Schmiedlin–Ren P, et al. **Mol Pharmacol** 1997 May; 51(5):741–54
Regulation of ICE activity and ICE isoforms by LPS. Tingsborg S, et al. **Mol Psychiatry** 1997 Mar;2(2):122–4 (10 ref.)
Glutamine synthetase gene expression in a glioblastoma cell–line of clonal origin: regulation by dexamethasone and dibutyryl cyclic AMP. Arcuri C, et al. **Neurochem Res** 1995 Oct;20(10):1133–9
Estradiol regulation of nitric oxide synthase mRNAs in rat hypothalamus. Ceccatelli S, et al. **Neuroendocrinology** 1996 Nov;64(5):357–63
Expression of tyrosine hydroxylase in newly differentiated neurons from a human cell line (hNT). Iacovitti L, et al. **Neuroreport** 1997 Apr 14;8(6):1471–4
Reduction of choline acetyltransferase mRNA in the septum of developing rat exposed to inorganic lead. Sun X, et al. **Neurotoxicology** 1997;18(1):201–7
Differential induction of seven 1–aminocyclopropane–1–carboxylate synthase genes by elicitor in suspension cultures of tomato (Lycopersicon esculentum). Oetiker JH, et al. **Plant Mol Biol** 1997 May; 34(2):275–86
Expression and RNA splicing of the maize glutathione S–transferase Bronze2 gene is regulated by cadmium and other stresses. Marrs KA, et al. **Plant Physiol** 1997 Jan; 113(1):93–102
PGE2 and LTB4 inhibit cytokine–stimulated nitric oxide synthase type 2 expression in isolated rat hepatocytes. Harbrecht BG, et al. **Prostaglandins** 1996 Aug;52(2):103–16
Alteration of transcriptional and post–transcriptional expression of gamma–glutamylcysteine synthetase by diethyl maleate. Sekhar KR, et al. **Radiat Res** 1997 May; 147(5):592–7
Proinflammatory cytokines downregulate gene expression and activity of constitutive nitric oxide synthase in porcine pulmonary artery endothelial cells. Zhang J, et al. **Res Commun Mol Pathol Pharmacol** 1997 Apr;96(1):71–87
Induction of steroidogenic enzyme genes by insulin and IGF–I in cultured adult human adrenocortical cells. Kristiansen SB, et al. **Steroids** 1997 Feb;62(2):258–65
Oncostatin M: a new potent inhibitor of iodine metabolism inhibits thyroid peroxidase gene expression but not DNA synthesis in porcine thyroid cells in culture. Isozaki O, et al. **Thyroid** 1997 Feb;7(1):71–7
Carbaryl induces CYP1A1 gene expression in HepG2 and HaCaT cells but is not a ligand of the human hepatic Ah receptor. Ledirac N, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):177–82
Nitrogen dioxide exposure activates gamma–glutamyl transferase gene expression in rat lung. Takahashi Y, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):388–96

GENETICS

Expression of carbonic anhydrase II (CA II) promoter–reporter fusion genes in multiple tissues of transgenic mice does not replicate normal patterns of expression indicating complexity of CA II regulation in vivo. Erickson RP, et al. **Biochem Genet** 1995 Dec; 33(11–12):421–37
Growth hormone restores hepatic lipase mRNA levels but the translation is impaired in hepatocytes of hypothyroid rats. Neve BP, et al. **Biochim Biophys Acta** 1997 Apr 1; 1345(2):172–9
Mouse DNA methyltransferase (MTase) deletion mutants that retain the catalytic domain display neither de novo nor maintenance methylation activity in vivo. Zimmermann C, et al. **Biol Chem** 1997 May;378(5):393–405
Bone mineral density and bone markers in relation to vitamin D receptor gene polymorphisms in Chinese men and women. Tsai KS, et al. **Bone** 1996 Nov;19(5):513–8
In vivo protein interaction with the mouse M–lysozyme gene downstream enhancer correlates with demethylation and gene expression. Short ML, et al. **Cell Growth Differ** 1996 Nov;7(11):1545–50
Nongenetic variation, genetic–environmental interactions and altered gene expression. I. Temperature, photoperiod, diet, pH and sex–related effects. Poly WJ. **Comp Biochem Physiol A Physiol** 1997 May;117(1):11–66 (533 ref.)
Time course and cellular localization of lipopolysaccharide–induced inducible nitric oxide synthase messenger RNA expression in the rat in vivo. Liu SF, et al. **Crit Care Med** 1997 Mar;25(3):512–8
The harmony of the spheres: inducible nitric oxide synthase and related genes in pancreatic beta cells. Eizirik DL, et al. **Diabetologia** 1996 Aug;39(8):875–90 (166 ref.)
Insulin stimulates protein synthesis of glycogen synthase in rat hepatoma H4 cells associated with acceleration of translation rate. Fujita N, et al. **Endocr J** 1996 Jun; 43(3):313–20
Inhibition of mouse thymidylate synthase promoter activity by the wild–type p53 tumor suppressor protein. Lee Y, et al. **Exp Cell Res** 1997 Aug 1;234(2):270–6
Sulfation and sulfotransferases 1: Sulfotransferase molecular biology: cDNAs and genes. Weinshilboum RM, et al. **FASEB J** 1997 Jan;11(1):3–14 (99 ref.)
Insertion of the retroposable element, jockey, near the Adh gene of Drosophila melanogaster is associated with altered gene expression. White LD, et al. **Genet Res** 1996 Dec; 68(3):203–9
Structural analysis and promoter characterization of the human collagenase–3 gene (MMP13). Pendás AM, et al. **Genomics** 1997 Mar 1;40(2):222–33
Expression of 17 alpha–hydroxylase and aromatase in the syndrome of androgen resistance: a case report. Doldi N, et al. **Gynecol Endocrinol** 1996 Aug;10(4):281–4
Frequency of glutathione S–transferase M1 deletion in smokers with emphysema and lung cancer. Harrison DJ, et al. **Hum Exp Toxicol** 1997 Jul;16(7):356–60
An improved plasmid DNA expression vector for direct injection into skeletal muscle. Hartikka J, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1205–17
Testosterone–regulated expression of enzymes involved in steroid and aromatic hydrocarbon catabolism in Comamonas testosteroni. Möbus E, et al. **J Bacteriol** 1997 Sep;179(18):5951–5
Regulation of the human inosine monophosphate dehydrogenase type I gene. Utilization of alternative promoters. Gu JJ, et al. **J Biol Chem** 1997 Feb 14; 272(7):4458–66
Role of gene overlap in the regulation of mRNA translation for mitochondrial cytochrome P–450c27/25 in the rat. Shayiq RM. **J Biol Chem** 1997 Feb 14;272(7):4050–7
Dietary fats modulate the regulatory potential of dietary cholesterol on cholesterol 7 alpha–hydroxylase gene expression. Cheema SK, et al. **J Lipid Res** 1997 Feb; 38(2):315–23
Cloning and characterization of the rat apobec–1 gene: a comparative analysis of gene structure and promoter usage in rat and mouse. Hirano K, et al. **J Lipid Res** 1997 Jun; 38(6):1103–19
Sepsis–induced regulation of lipoprotein lipase expression in rat adipose tissue and soleus muscle. Lanza–Jacoby S, et al. **J Lipid Res** 1997 Apr;38(4):701–10
Sterol 27–hydroxylase: expression in human arterial endothelium. Reiss AB, et al. **J Lipid Res** 1997 Jun; 38(6):1254–60
C/EBP factor suppression of inhibition of type II secreted phospholipase A2 promoter in HepG2 cells: possible role of single–strand binding proteins. Fan Q, et al. **Mol Cell Biol** 1997 Aug;17(8):4238–48
Biological role of the general control of amino acid biosynthesis in Saccharomyces cerevisiae. Niederberger P, et al. **Mol Cell Biol** 1981 Jul;1(7):584–93
Cloning and expression of the 11beta–hydroxysteroid dehydrogenase type 1 gene in the baboon. Davies WA, et al. **Mol Cell Endocrinol** 1997 Mar 28;127(2):201–9
Fetal death in mice lacking 5alpha–reductase type 1 caused by estrogen excess. Mahendroo MS, et al. **Mol Endocrinol** 1997 Jun;11(7):917–27
Characterization of an intronic promoter of a cyclic adenosine 3',5'–monophosphate (cAMP)–specific phosphodiesterase gene that confers hormone and cAMP inducibility. Vicini E, et al. **Mol Endocrinol** 1997 Jun; 11(7):839–50
DNA sequences that activate isocitrate lyase gene expression during late embryogenesis and during postgerminative growth. Zhang JZ, et al. **Plant Physiol** 1996 Apr; 110(4):1069–79
Inheritance, gene expression, and lignin characterization in a mutant pine deficient in cinnamyl alcohol dehydrogenase. MacKay JJ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8255–60
Site–directed mutations reveal long–range compensatory interactions in the Adh gene of Drosophila melanogaster. Parsch J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4; 94(3):928–33
[The cloning and expression of the beta–galactosidase gene of Candida pseudotropicalis yeasts in Escherichia coli cells] Tretiak KA, et al. **Mikrobiol Z** 1997 Jan–Feb;59(1):11–7 (Eng. Abstr.) **(Rus)**
[The organ specificity of the expression of a number of genetic–biochemical systems in sheep] Makar IA, et al. **Tsitol Genet** 1996 May–Jun;30(3):52–7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Mitogen–activated protein kinase cascades and regulation of gene expression. Su B, et al. **Curr Opin Immunol** 1996 Jun; 8(3):402–11 (95 ref.)
Molecular cloning of the cDNA of mouse mitochondrial NADP–dependent isocitrate dehydrogenase and the expression of the gene during lymphocyte activation. Yang L, et al. **J Cell Biochem** 1996 Mar 1;60(3):400–10

PHYSIOLOGY

Cloning and expression of the gene encoding a novel proteinase from Tritirachium album limber. Samal B, et al. **Adv Exp Med Biol** 1996;379:95–104
Expression of the alcohol dehydrogenase (ADH) domain of Entamoeba histolytica EhADH2 enzyme. Espinosa A, et al. **Arch Med Res** 1997;28 Spec No:78–80
An in vivo cytokine and endotoxin–independent pathway for induction of nitric oxide synthase II mRNA, enzyme, and nitrate/nitrite in alveolar macrophages. Greenberg SS, et al. **Biochem Biophys Res Commun** 1996 Oct 3; 227(1):160–7
The heat shock response inhibits inducible nitric oxide synthase gene expression by blocking I kappa–B degradation and NF–kappa B nuclear translocation. Wong HR, et al. **Biochem Biophys Res Commun** 1997 Feb 13; 231(2):257–63
Prolactin–mediated inhibition of 20alpha–hydroxysteroid dehydrogenase gene expression and the tyrosine kinase system. Zhong L, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):587–92
Anisoosmotic regulation of hepatic gene expression. Warskulat U, et al. **Biol Chem Hoppe Seyler** 1996 Jan; 377(1):57–65
A developmental switch in expression from blastocyst to endometrial/placental–type cytochrome P450 aromatase genes in the pig and horse. Choi I, et al. **Biol Reprod** 1997 Mar;56(3):688–96
Hormonal regulation of matrix metalloproteinase 9/gelatinase B gene expression in rabbit uterine cervical fibroblasts. Imada K, et al. **Biol Reprod** 1997 Mar;56(3):575–80
Distribution of the organellar Ca2+ transport ATPase SERCA2 isoforms in the cat brain. Baba–Aïssa F, et al. **Brain Res** 1996 Dec 16;743(1–2):141–53
Adenovirus–mediated expression of a reporter gene in thalamocortical cocultures. Wilkemeyer MF, et al. **Brain Res** 1995 Dec 12;703(1–2):129–38
Developmental expression of MARCKS and protein kinase C in mice in relation to the exencephaly resulting from MARCKS deficiency. Blackshear PJ, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):62–75
Acetyl–CoA carboxylase gene expression in the developing mouse brain. Comparison with other genes involved in lipid biosynthesis. Garbay B, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):197–203
Prostaglandin–H synthase–1 (PGHS–1) gene is expressed in specific neurons of the brain of the late gestation ovine fetus. Norton JL, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):79–96
The alpha 1 subunit of soluble guanylyl cyclase is expressed prenatally in the rat brain. Smigrodzki R, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):226–34
Molecular cloning of chick pineal tryptophan hydroxylase and circadian oscillation of its mRNA levels. Florez JC, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):25–30
Localization of mRNA for phosphatidylinositol 3–kinase in brain of developing and mature rats. Ito Y, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):149–53
Differential distribution of mRNA encoding cAMP–specific phosphodiesterase isoforms in the rat brain. Iwahashi Y, et al. **Brain Res Mol Brain Res** 1996 May;38(1):14–24
Differential regulation of mRNA levels encoding for the two isoforms of glutamate decarboxylase (GAD65 and GAD67) by dopamine receptors in the rat striatum. Laprade N, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):65–74
Localization of novel receptor tyrosine kinase genes of the eph family, MDK1 and its splicing variant, in the developing mouse nervous system. Mori T, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):154–60
Differential expression of a cDNA clone in human liver versus hepatic cancer—highly homologous to aryl–dialkyl–phosphatase. Wang KK, et al. **Cell Res** 1997 Jun;7(1):79–90
Subcellular localization of arachidonate 12–lipoxygenase and morphological effect of its overexpression on murine keratinocytes. Nakamura M, et al. **Cell Tissue Res** 1997 May;288(2):327–34
Expression of protein kinase C gene in the brain and heart of spontaneously hypertensive rats. Gao PJ, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S204–6
Expression of sarcoplasmic reticulum Ca2+ –ATPase

mRNA in the hypertrophied heart of young spontaneously hypertensive rats. Ohta K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S228–9

Human phenol sulfotransferase gene contains two alternative promoters: Structure and expression of the gene. Bernier F, et al. **DNA Cell Biol** 1996 May;15(5):367–75

Baculovirus-mediated expression and purification of human FMO3: catalytic, immunochemical, and structural characterization. Haining RL, et al. **Drug Metab Dispos** 1997 Jul;25(7):790–7

Mitogenic signaling via G protein–coupled receptors. van Biesen T, et al. **Endocr Rev** 1996 Dec;17(6):698–714 (272 ref.)

Autocrine-paracrine role of endothelin-1 in the regulation of aldosterone synthase expression and intracellular Ca2+ in human adrenocortical carcinoma NCI-H295 cells. Rossi GP, et al. **Endocrinology** 1997 Oct;138(10):4421–6

Hypothyroidism alters the expression of prostaglandin D2 synthase/beta trace in specific areas of the developing rat brain. García-Fernández LF, et al. **Eur J Neurosci** 1997 Aug;9(8):1566–73

Peripheral nerve stimulation increases Fos immunoreactivity without affecting type II Ca2+/calmodulin-dependent protein kinase, glutamic acid decarboxylase, or GABAA receptor gene expression in cat spinal cord. Liang F, et al. **Exp Brain Res** 1996 Oct;111(3):326–36

Overexpression of calcium/calmodulin-dependent protein kinase II in insulinoma cells by use of a retroviral vector. Möhlig M, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:71–3

Singlet oxygen is an early intermediate in cytokine-dependent ultraviolet-A induction of interstitial collagenase in human dermal fibroblasts in vitro. Wlaschek M, et al. **FEBS Lett** 1997 Aug 18;413(2):239–42

Lipid metabolite involvement in the activation of the human heme oxygenase-1 gene. Basu-Modak S, et al. **Free Radic Biol Med** 1996;20(7):887–97

Expression of P450(17 alpha) hydroxylase and P450 aromatase genes in the chicken gonad before and after sexual differentiation. Yoshida K, et al. **Gen Comp Endocrinol** 1996 May;102(2):233–40

Tissue specificity of L-pyruvate kinase transgenes results from the combinatorial effect of proximal promoter and distal activator regions. Miquerol L, et al. **Gene Expr** 1996; 5(6):315–30

Human retina-specific amine oxidase (RAO): cDNA cloning, tissue expression, and chromosomal mapping. Imamura Y, et al. **Genomics** 1997 Mar 1;40(2):277–83

Expression of alpha 2,8-sialyltransferase (GD3 synthase) gene in human cancer cell lines: high level expression in melanomas and up-regulation in activated T lymphocytes. Yamashiro S, et al. **Glycoconj J** 1995 Dec;12(6):894–900

Genetic regulation of telomerase in a multiple pathways model to cellular senescence. Oshimura M, et al. **Hum Cell** 1996 Dec;9(4):301–8 (44 ref.)

Gene expression of endothelial type isoform of nitric oxide synthase in various tissues of stroke-prone spontaneously hypertensive rats. Seki T, et al. **Hypertens Res** 1997 Mar; 20(1):43–9

Expression pattern of glutamate decarboxylase (GAD) in the developing cortex of the embryonic chick brain. Lundgren P, et al. **Int J Dev Neurosci** 1997 Feb;15(1):127–37

Transcription of the rat skeletal muscle hexokinase II gene is increased by acute exercise. O'Doherty RM, et al. **J Appl Physiol** 1996 Aug;81(2):789–93

Molecular cloning and functional expression of a cDNA for rat phospholipid hydroperoxide glutathione peroxidase: 3'-untranslated region of the gene is necessary for functional expression. Imai H, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1061–7

Change in the expression of hypopharyngeal-gland proteins of the worker honeybees (Apis mellifera L.) with age and/or role. Kubo T, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):291–5

Application of primary hepatocytes from p53-knockout mice for studies of expression of Cyp3a. Shimoji M, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):42–8

Transcriptional activation of the melanocyte-specific genes by the human homolog of the mouse Microphthalmia protein. Yasumoto K, et al. **J Biochem (Tokyo)** 1995 Nov; 118(5):874–81

Alternative splicing of human inducible nitric-oxide synthase mRNA. tissue-specific regulation and induction by cytokines. Eissa NT, et al. **J Biol Chem** 1996 Oct 25; 271(43):27184–7

Synergistic binding of sterol regulatory element-binding protein and NF-Y to the farnesyl diphosphate synthase promoter is critical for sterol-regulated expression of the gene. Ericsson J, et al. **J Biol Chem** 1996 Oct 4; 271(40):24359–64

Regulation of nitric oxide synthase gene expression by cytokines. Yokoyama M, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S179–85 (25 ref.)

Overexpression of protein kinase FA/GSK-3 alpha (a proline-directed protein kinase) correlates with human hepatoma dedifferentiation/progression. Yang SD, et al. **J Cell Biochem** 1996 May;61(2):238–45

Initial expression of phosphoenolpyruvate carboxykinase gene in fetal hepatocytes: role of transcription factors. Molero C, et al. **J Hepatol** 1996 Oct;25(4):510–7

Expression of phenylethanolamine n-methyltransferase in the embryonic rat heart. Ebert SN, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1653–8

Downregulation of polo-like kinase correlates with loss of proliferative ability of cardiac myocytes. Georgescu SP, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):929–37

Increased expression of cardiac phosphatases in patients with end-stage heart failure. Neumann J, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):265–72

Transgenic mice overexpressing glutathione peroxidase are resistant to myocardial ischemia reperfusion injury. Yoshida T, et al. **J Mol Cell Cardiol** 1996 Aug; 28(8):1759–67

Differences in expression of sarcoplasmic reticulum Ca2+-ATPase and Na+-Ca2+ exchanger genes between adjacent and remote noninfarcted myocardium after myocardial infarction. Yoshiyama M, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):255–64

Analysis of an alternative promoter that regulates tissue-specific expression of the human aromatic L-amino acid decarboxylase gene in cultured cell lines. Sumi-Ichinose C, et al. **J Neural Transm** 1996; 103(1-2):1–15

CRYP-2: a receptor-type tyrosine phosphatase selectively expressed by developing vertebrate neurons. Bodden K, et al. **J Neurobiol** 1996 Nov;31(3):309–24

Regional differences in gene expression for calcium activated neutral proteases (calpains) and their endogenous inhibitor calpastatin in mouse brain and spinal cord. Li J, et al. **J Neurobiol** 1996 Jun;30(2):177–91

Differential regulation of choline acetyltransferase expression in adult Drosophila melanogaster brain. Yasuyama K, et al. **J Neurobiol** 1996 Jun;30(2):205–18

Oxygen deprivation but not a combination of oxygen, glucose, and serum deprivation induces DNA degradation in mouse cortical neurons in vitro: attenuation by transgenic overexpression of CuZn-superoxide dismutase. Copin JC, et al. **J Neurotrauma** 1996 May;13(5):233–44

Effects of hypoxemia on 11 beta-hydroxysteroid dehydrogenase types 1 and 2 gene expression in preterm fetal sheep. Yang K, et al. **J Soc Gynecol Investig** 1997 May-Jun;4(3):124–9

Interconversion of cortisol and cortisone in the baboon placenta at midgestation: expression of 11beta-hydroxysteroid dehydrogenase type 1 messenger RNA. Pepe GJ, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):403–10

Cloning and expression of cDNA for soluble form of rat heme oxygenase-1. Hidaka T, et al. **Kurume Med J** 1996; 43(4):313–24

Regulation of the glutamate racemase of Escherichia coli investigated by site-directed mutagenesis. Doublet P, et al. **Microb Drug Resist** 1996 Spring;2(1):43–9

Inhibition of DNA topoisomerase II alpha gene expression by the p53 tumor suppressor. Wang Q, et al. **Mol Cell Biol** 1997 Jan;17(1):389–97

Ontogeny and sexual dimorphic expression of mouse type 2 11beta-hydroxysteroid dehydrogenase. Condon J, et al. **Mol Cell Endocrinol** 1997 Mar 28;127(2):121–8

Protein kinase C in beta-cells: expression of multiple isoforms and involvement in cholinergic stimulation of insulin secretion [published erratum appears in Mol Cell Endocrinol 1996 Jul 1;120(2):221] Tian YM, et al. **Mol Cell Endocrinol** 1996 May 31;119(2):185–93

Amylase on Pecten maximus (Mollusca, bivalves): protein and cDNA characterization; quantification of the expression in the digestive gland. Le Moine S, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):228–37

Protein tyrosine phosphatase-dependent activation of beta-globin and delta-aminolevulinic acid synthase genes in the camptothecin-induced IW32 erythroleukemia cell differentiation. Wang MC, et al. **Mol Pharmacol** 1997 Apr; 51(4):558–66

Effect of unilateral nephrectomy on gene expression of metalloproteinases and their inhibitors. Koide H, et al. **Nephron** 1997;75(4):479–83

Neurotrophin receptor and tyrosine hydroxylase gene expression in aged sympathetic neurons. Kuchel GA, et al. **Neurobiol Aging** 1997 Jan-Feb;18(1):67–79

Expression of beta 1-4 N-acetylgalactosaminyltransferase gene in the developing rat brain and retina: mRNA, protein immunoreactivity and enzyme activity. Daniotti JL, et al. **Neurochem Int** 1997 Jul;31(1):11–9

Mechanisms of transcriptional regulation and neural gene expression. Tamura T, et al. **Neurochem Int** 1996 Dec; 29(6):573–81 (61 ref.)

Differential regulation of adenylyl cyclase in fibroblasts from sporadic and familial Alzheimer's disease cases with PS1 and APP mutations. Vestling M, et al. **Neuroreport** 1997 May 27;8(8):2031–5

Transient expression of acetylcholinesterase messenger RNA and enzyme activity in developing rat thalamus studied by quantitative histochemistry and in situ hybridization. Brimijoin S, et al. **Neuroscience** 1996 Mar;71(2):555–65

Unilateral nigrostriatal lesions induce a bilateral increase in glutamate decarboxylase messenger RNA in the reticular thalamic nucleus. Delfs JM, et al. **Neuroscience** 1996 Mar; 71(2):383–95

Regulation of the urokinase-type plasminogen activator gene by the oncogene Tpr-Met involves GRB2. Besser D, et al. **Oncogene** 1997 Feb 13;14(6):705–11

Photosynthetic electron transport regulates the expression of cytosolic ascorbate peroxidase genes in Arabidopsis during excess light stress. Karpinski S, et al. **Plant Cell** 1997 Apr;9(4):627–40

Circadian expression of the carbonic anhydrase gene, Cah1, in Chlamydomonas reinhardtii. Fujiwara S, et al. **Plant Mol Biol** 1996 Nov;32(4):745–9

Mechanosensitive expression of a lipoxygenase gene in wheat. Mauch F, et al. **Plant Physiol** 1997 Aug;114(4):1561–6

The quinone reductase gene: a unique estrogen receptor-regulated gene that is activated by antiestrogens. Montano MM, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2581–6

Induction of muscle glutamine synthetase gene expression during endotoxemia is adrenal gland dependent. Lukaszewicz GC, et al. **Shock** 1997 May;7(5):332–8

Similarities and differences among inner retinal neurons revealed by the expression of reporter transgenes controlled by Brn-3a, Brn-3b, and Brn-3c promotor sequences. Xiang M, et al. **Vis Neurosci** 1996 Sep-Oct;13(5):955–62

[Regulation of the expression of hepatic genes coding the enzymes of glycolysis and gluconeogenesis] Girard J. **Journ Annu Diabetol Hotel Dieu** 1996;:37–53 (91 ref.) **(Fre)**

[Modulation of mu-PA gene expression by inflammatory cytokines in RC-K8 lymphoma cells] Niiya K. **Rinsho Byori** 1997 Feb;Suppl 104:150–8 **(Jpn)**

[Effect of culture medium components on the accumulation of extracellular bacillary ribonucleases in culture fluid of recombinant strains of Escherichia coli] Gabdrakhmanova LA, et al. **Mikrobiologiia** 1996 Sep-Oct;65(5):599–606 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Involvement of the AP-1 site within the 5'-flanking region of the stromelysin-1 gene in induction of the gene expression by UVA irradiation. Sawamura D, et al. **Arch Dermatol Res** 1996 Sep;288(10):628–32

Regulation of photomorphogenesis by expression of mammalian biliverdin reductase in transgenic Arabidopsis plants. Lagarias DM, et al. **Plant Cell** 1997 May;9(5):675–88

Cis-acting elements essential for light regulation of the nuclear gene encoding the A subunit of chloroplast glyceraldehyde 3-phosphate dehydrogenase in Arabidopsis thaliana. Park SC, et al. **Plant Physiol** 1996 Dec; 112(4):1563–71

Transcription and activity of antioxidant enzymes after ionizing irradiation in radiation-resistant and radiation-sensitive mice. Hardmeier R, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7572–6

Enhancement of radiation-induced hepatic microsomal epoxide hydrolase gene expression by oltipraz in rats. Nam SY, et al. **Radiat Res** 1997 May;147(5):613–20

GENE EXPRESSION REGULATION, FUNGAL

3' Noncoding sequences of the CTA 1 gene enhance expression of the recombinant serine protease inhibitor, CPTI II, in Saccharomyces cerevisiae. Stankiewicz M, et al. **Acta Biochim Pol** 1996;43(3):525–9

Kinetics of mRNA and protein synthesis of genes controlled by the 1,4-beta-endoxylanase A promoter in controlled fermentations of Aspergillus awamori. Gouka RJ, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3646–9

Regulated system for heterologous gene expression in Penicillium chrysogenum. Graessle S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):753–6

Regulation of cellulase gene expression in the filamentous fungus Trichoderma reesei. Ilmén M, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1298–306

Analysis of mechanisms regulating expression of the ver-1 gene, involved in aflatoxin biosynthesis. Liang SH, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1058–65

ord1, an oxidoreductase gene responsible for conversion of O-methylsterigmatocystin to aflatoxin in Aspergillus flavus. Prieto R, et al. **Appl Environ Microbiol** 1997 May; 63(5):1661–6

avnA, a gene encoding a cytochrome P-450 monooxygenase, is involved in the conversion of averantin to averufin in aflatoxin biosynthesis in Aspergillus parasiticus. Yu J, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1349–56

Deregulation of the first N-glycosylation gene, ALG7, perturbs the expression of G1 cyclins and cell cycle arrest in Saccharomyces cerevisiae. Lennon K, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):562–5

Basic helix-loop-helix transcription factors and the cross-regulation of sulphate and phosphate metabolism in yeast. Crowther DJ, et al. **Biochem Soc Trans** 1996 May; 24(2):354–9 (53 ref.)

Regulation of gene expression by ambient pH in Aspergillus: genes expressed at acid pH. Sarkar S, et al. **Biochem Soc Trans** 1996 May;24(2):360–3 (17 ref.)

Analysis of carbon source-regulated gene expression by the upstream region of the Candida tropicalis malate synthase gene in Saccharomyces cerevisiae. Umemura K, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):80–8

A novel mechanism for regulating activity of a transcription factor that controls the unfolded protein response [see comments] Cox JS, et al. **Cell** 1996 Nov 1;87(3):391–404 . Comment in: Cell 1996 Nov 1;87(3):357–9.

Mixed mechanisms in yeast pre-mRNA splicing? [comment] Rosbash M. **Cell** 1996 Nov 1;87(3):357–9 (15 ref.). Comment on: Cell 1996 Nov 1;87(3):391–404. Comment

on: Cell 1996 Nov 1;87(3):405–13.
tRNA ligase is required for regulated mRNA splicing in the unfolded protein response [see comments] Sidrauski C, et al. **Cell** 1996 Nov 1;87(3):405–13. Comment in: Cell 1996 Nov 1;87(3):357–9.
A specialized nucleosome modulates transcription factor access to a C. glabrata metal responsive promoter. Zhu Z, et al. **Cell** 1996 Nov 1;87(3):459–70
UCSF gene discover opens new window on mechanism of yeast infection [news] **Compr Ther** 1997 Sep;23(9):621–2
Approaching the function of new genes by detection of their potential upstream activation sequences in Saccharomyces cerevisiae: application to chromosome III. Fondrat C, et al. **Comput Appl Biosci** 1996 Oct;12(5):363–74
Over-expression of S. cerevisiae G1 cyclins restores the viability of alg1 N-glycosylation mutants. Benton BK, et al. **Curr Genet** 1996 Jan;29(2):106–13
Detection of antagonistic cellular regulatory functions by the gene–gene interference method in yeast. Daniel J. **Curr Genet** 1996 Jan;29(2):114–21
Transient expression of the beta-glucuronidase gene after biolistic transformation of the anaerobic fungus Neocallimastix frontalis. Durand R, et al. **Curr Genet** 1997 Feb;31(2):158–61
Mutations in SPK1/RAD53 that specifically abolish checkpoint but not growth-related functions. Fay DS, et al. **Curr Genet** 1997 Feb;31(2):97–105
Improved biocontrol activity of Trichoderma harzianum by over-expression of the proteinase-encoding gene prb1. Flores A, et al. **Curr Genet** 1997 Jan;31(1):30–7
Truncated-gene reporter system for studying the regulation of manganese peroxidase expression. Gettemy JM, et al. **Curr Genet** 1997 Jun;31(6):519–24
STP1, a gene involved in pre-tRNA processing in yeast, is important for amino-acid uptake and transcription of the permease gene BAP2. Jorgensen MU, et al. **Curr Genet** 1997 Mar;31(3):241–7
Identification of a Saccharomyces cerevisiae mitochondrial-DNA which can act as a promoter tightly regulated by carbon source when placed in the nucleus. MacIver FH, et al. **Curr Genet** 1997 Feb;31(2):119–21
yAP-1- and yAP-2-mediated, heat shock-induced transcriptional activation of the multidrug resistance ABC transporter genes in Saccharomyces cerevisiae. Miyahara K, et al. **Curr Genet** 1996 Jan;29(2):103–5
Expression of the Sclerotinia sclerotiorum polygalacturonase pg1 gene: possible involvement of CREA in glucose catabolite repression. Reymond-Cotton P, et al. **Curr Genet** 1996 Aug;30(3):240–5
ORF7 of yeast plasmid pGKL2: analysis of gene expression in vivo. Schaffrath R, et al. **Curr Genet** 1997 Feb; 31(2):190–2
Expression and secretion of the Candida wickerhamii extracellular beta-glucosidase gene, bglB, in Saccharomyces cerevisiae. Skory CD, et al. **Curr Genet** 1996 Nov;30(5):417–22
Identification of regulatory mutants of Aspergillus aculeatus affected in rhamnogalacturonan hydrolase expression. Suykerbuyk MEG, et al. **Curr Genet** 1996 Nov;30(5):439–46
Factors affecting DNA-binding proteins and pcbC transcript levels in Penicillium chrysogenum. Vichitsoonthonkul T, et al. **Curr Genet** 1996 Nov;30(5):447–54
Molecular model for telomeric heterochromatin in yeast. Grunstein M. **Curr Opin Cell Biol** 1997 Jun;9(3):383–7 (42 ref.)
Precocious sporulation and developmental lethality in yelA null mutants of Dictyostelium. Osherov N, et al. **Dev Genet** 1997;20(4):307–19
Transcriptional termination signals for RNA polymerase II in fission yeast. Birse CE, et al. **EMBO J** 1997 Jun; 16(12):3633–43
The integration of nitrogen and carbon catabolite repression in Aspergillus nidulans requires the GATA factor AreA and an additional positive-acting element, ADA. Gonzalez R, et al. **EMBO J** 1997 May 15;16(10):2937–44
Cell differentiation by interaction of two HMG-box proteins: Mat1-Mc activates M cell-specific genes in S.pombe by recruiting the ubiquitous transcription factor Ste11 to weak binding sites. Kjaerulff S, et al. **EMBO J** 1997 Jul 1; 16(13):4021–33
The Skn7 response regulator controls gene expression in the oxidative stress response of the budding yeast Saccharomyces cerevisiae. Morgan BA, et al. **EMBO J** 1997 Mar 3;16(5):1035–44
Transcriptional pulse-chase analysis reveals a role for a novel snRNP-associated protein in the manufacture of spliceosomal snRNPs. Noble SM, et al. **EMBO J** 1996 Aug 15;15(16):4368–79
The absence of the mitochondrial ATP synthase delta subunit promotes a slow growth phenotype of rho- yeast cells by a lack of assembly of the catalytic sector F1. Giraud MF, et al. **Eur J Biochem** 1997 May 1;245(3):813–8
A heterodimer of the Zn2Cys6 transcription factors Pip2p and Oaf1p controls induction of genes encoding peroxisomal proteins in Saccharomyces cerevisiae. Rottensteiner H, et al. **Eur J Biochem** 1997 Aug 1; 247(3):776–83
Derepression of gene expression mediated by the 5' upstream region of the isocitrate lyase gene of Candida tropicalis is controlled by two distinct regulatory pathways in Saccharomyces cerevisiae. Umemura K, et al. **Eur J Biochem** 1997 Feb 1;243(3):748–52
Involvement of CIF1 (GGS1/TPS1) in osmotic stress response in Saccharomyces cerevisiae. Hazell BW, et al. **FEBS Lett** 1997 Sep 8;414(2):353–8
Import of branched-chain amino acids in Saccharomyces cerevisiae. Didion T, et al. **Folia Microbiol (Praha)** 1996; 41(1):87
Putative K+ channel in the plasma membrane of the yeast Schizosaccharomyces pombe: evidence of transcription-level regulation. Golubnitchaya-Labudova O, et al. **Folia Microbiol (Praha)** 1996;41(1):93–5
ACO1 expression in Saccharomyces cerevisiae is regulated by the HAP complex. Haviernik P, et al. **Folia Microbiol (Praha)** 1996;41(1):96–8
Properties of Candida albicans CAN1 permease expressed in Saccharomyces cerevisiae. Matějčková A, et al. **Folia Microbiol (Praha)** 1996;41(1):107–9
Oxygen- and carbon source-dependent transactivation effect of ABF1 on the expression of the AAC2 gene encoding mitochondrial ADP/ATP carrier. Nebohráčová M, et al. **Folia Microbiol (Praha)** 1996;41(1):115–6
Regulation of AAC isogenes encoding mitochondrial ADP/ATP translocator in the yeast Saccharomyces cerevisiae. Sabová L, et al. **Folia Microbiol (Praha)** 1996; 41(1):124–6
Isolation and characterisation of a novel stress-inducible PDI-family gene from Aspergillus niger. Jeenes DJ, et al. **Gene** 1997 Jul 9;193(2):151–6
Satellite DNA from the brine shrimp Artemia affects the expression of a flanking gene in yeast. Maiorano D, et al. **Gene** 1997 Apr 11;189(1):13–8
Antisense-mediated regulation of Annexin VII gene expression during the transition from growth to differentiation in Dictyostelium discoideum. Okafuji T, et al. **Gene** 1997 Apr 11;189(1):49–56
Regulation of phosphatase synthesis in Saccharomyces cerevisiae--a review. Oshima Y, et al. **Gene** 1996 Nov 7; 179(1):171–7 (50 ref.)
Gene overexpression reveals alternative mechanisms that induce GCN4 mRNA translation. Tavernarakis N, et al. **Gene** 1996 Nov 14;179(2):271–7
Transcriptional silencing of Ty1 elements in the RDN1 locus of yeast. Bryk M, et al. **Genes Dev** 1997 Jan 15;11(2):255–69
Essential role of Swp73p in the function of yeast Swi/Snf complex. Cairns BR, et al. **Genes Dev** 1996 Sep 1; 10(17):2131–44
The ORC1 homolog orp1 in fission yeast plays a key role in regulating onset of S phase. Grallert B, et al. **Genes Dev** 1996 Oct 15;10(20):2644–54
RAD9 and DNA polymerase epsilon form parallel sensory branches for transducing the DNA damage checkpoint signal in Saccharomyces cerevisiae. Navas TA, et al. **Genes Dev** 1996 Oct 15;10(20):2632–43
An unusual form of transcriptional silencing in yeast ribosomal DNA. Smith JS, et al. **Genes Dev** 1997 Jan 15; 11(2):241–54
Asm-1+, a Neurospora crassa gene related to transcriptional regulators of fungal development. Aramayo R, et al. **Genetics** 1996 Nov;144(3):991–1003
Underproduction of the largest subunit of RNA polymerase II causes temperature sensitivity, slow growth, and inositol auxotrophy in Saccharomyces cerevisiae. Archambault J, et al. **Genetics** 1996 Mar;142(3):737–47
Multicopy FZF1 (SUL1) suppresses the sulfite sensitivity but not the glucose derepression or aberrant cell morphology of a grr1 mutant of Saccharomyces cerevisiae. Avram D, et al. **Genetics** 1996 Oct;144(2):511–21
Identification of residues in fission yeast and human p34cdc2 required for S-M checkpoint control. Basi G, et al. **Genetics** 1996 Dec;144(4):1413–24
RNA polymerase III defects suppress a conditional-lethal poly(A) polymerase mutation in Saccharomyces cerevisiae. Briggs MW, et al. **Genetics** 1996 Jul;143(3):1149–61
apd1+, a gene required for red pigment formation in ade6 mutants of Schizosaccharomyces pombe, encodes an enzyme required for glutathione biosynthesis: a role for glutathione and a glutathione-conjugate pump. Chaudhuri B, et al. **Genetics** 1997 Jan;145(1):75–83
Genesis and variability of [PSI] prion factors in Saccharomyces cerevisiae. Derkatch IL, et al. **Genetics** 1996 Dec;144(4):1375–86
Isolation and identification of genes activating UAS2-dependent ADH2 expression in Saccharomyces cerevisiae. Donoviel MS, et al. **Genetics** 1996 Jul; 143(3):1137–48
Mutations in the RNA polymerase II transcription machinery suppress the hyperrecombination mutant hpr1 delta of Saccharomyces cerevisiae. Fan HY, et al. **Genetics** 1996 Mar;142(3):749–59
CDP1, a novel Saccharomyces cerevisiae gene required for proper nuclear division and chromosome segregation. Foreman PK, et al. **Genetics** 1996 Dec;144(4):1387–97
Cha4p of Saccharomyces cerevisiae activates transcription via serine/threonine response elements. Holmberg S, et al. **Genetics** 1996 Oct;144(2):467–78
An extragenic suppressor of the mitosis-defective bimD6 mutation of Aspergillus nidulans codes for a chromosome scaffold protein. Holt CL, et al. **Genetics** 1996 Mar; 142(3):777–87
The yeast BSD2-1 mutation influences both the requirement for phosphatidylinositol transfer protein function and derepression of phospholipid biosynthetic gene expression in yeast. Kagiwada S, et al. **Genetics** 1996 Jun;143(2):685–97
Senescence mutants of Saccharomyces cerevisiae with a defect in telomere replication identify three additional EST genes. Lendvay TS, et al. **Genetics** 1996 Dec; 144(4):1399–412
Analysis of meiotic recombination pathways in the yeast Saccharomyces cerevisiae. Mao-Draayer Y, et al. **Genetics** 1996 Sep;144(1):71–86
Aspergillus fabM encodes an essential product that is related to poly(A)-binding proteins and activates development when overexpressed. Marhoul JF, et al. **Genetics** 1996 Dec; 144(4):1463–70
RAD9, RAD17, and RAD24 are required for S phase regulation in Saccharomyces cerevisiae in response to DNA damage. Paulovich AG, et al. **Genetics** 1997 Jan; 145(1):45–62
Influences of histone stoichiometry on the target site preference of retrotransposons Ty1 and Ty2 in Saccharomyces cerevisiae. Rinckel LA, et al. **Genetics** 1996 Mar;142(3):761–76
Deletion of the Schizophyllum commune A alpha locus: the roles of A alpha Y and Z mating-type genes. Robertson CI, et al. **Genetics** 1996 Dec;144(4):1437–44
The yeast HRS1 gene encodes a polyglutamine-rich nuclear protein required for spontaneous and hpr1-induced deletions between direct repeats. Santos-Rosa H, et al. **Genetics** 1996 Mar;142(3):705–16
Los1p, involved in yeast pre-tRNA splicing, positively regulates members of the SOL gene family. Shen WC, et al. **Genetics** 1996 Jun;143(2):699–712
The Swi5 transcription factor of Saccharomyces cerevisiae has a role in exit from mitosis through induction of the cdk-inhibitor Sic1 in telophase. Toyn JH, et al. **Genetics** 1997 Jan;145(1):85–96
Evidence that the transcriptional regulators SIN3 and RPD3, and a novel gene (SDS3) with similar functions, are involved in transcriptional silencing in S. cerevisiae. Vannier D, et al. **Genetics** 1996 Dec;144(4):1343–53
Suppression of pdc2 regulating pyruvate decarboxylase synthesis in yeast. Velmurugan S, et al. **Genetics** 1997 Mar; 145(3):587–94
The Saccharomyces cerevisiae RTG2 gene is a regulator of aconitase expression under catabolite repression conditions. Vélot C, et al. **Genetics** 1996 Nov;144(3):893–903
Activator-independent gene expression in Neurospora crassa. Versaw WK, et al. **Genetics** 1996 Feb;142(2):417–23
New mutants of Saccharomyces cerevisiae affected in the transport of proteins from the endoplasmic reticulum to the Golgi complex. Wuestehube LJ, et al. **Genetics** 1996 Feb;142(2):393–406
Yeast mutants that produce a novel type of ascus containing asci instead of spores. Xue Z, et al. **Genetics** 1996 Nov; 144(3):979–89
The Candida albicans HYR1 gene, which is activated in response to hyphal development, belongs to a gene family encoding yeast cell wall proteins. Bailey DA, et al. **J Bacteriol** 1996 Sep;178(18):5353–60
Cross regulation of four GATA factors that control nitrogen catabolic gene expression in Saccharomyces cerevisiae. Coffman JA, et al. **J Bacteriol** 1997 Jun;179(11):3416–29
Regulation of yeast phospholipid biosynthetic genes in phosphatidylserine decarboxylase mutants. Griač P. **J Bacteriol** 1997 Sep;179(18):5843–8
Regulation of the proteinase B structural gene PRB1 in Saccharomyces cerevisiae. Naik RR, et al. **J Bacteriol** 1997 Mar;179(5):1469–74
Identification of a Cryptococcus neoformans gene that directs expression of the cryptic Saccharomyces cerevisiae mannitol dehydrogenase gene. Perfect JR, et al. **J Bacteriol** 1996 Sep;178(17):5257–62
Increase in chitin as an essential response to defects in assembly of cell wall polymers in the gpp1delta mutant of Saccharomyces cerevisiae. Popolo L, et al. **J Bacteriol** 1997 Jan;179(2):463–9
Role of GATA factor Nil2p in nitrogen regulation of gene expression in Saccharomyces cerevisiae. Rowen DW, et al. **J Bacteriol** 1997 Jun;179(11):3761–6
The WH11 gene of Candida albicans is regulated in two distinct developmental programs through the same transcription activation sequences. Srikantha T, et al. **J Bacteriol** 1997 Jun;179(12):3837–44
Control of the Myc-Max mediated transactivation in yeast by natural promoter elements. Hänel F, et al. **J Basic Microbiol** 1997;37(1):23–8
Saccharomyces cerevisiae KAR2 (BiP) gene expression is induced by loss of cytosolic HSP70/Ssa1p through a heat shock element-mediated pathway. Oka M, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):578–84
Effects of oxygen concentration on the expression of cytochrome c and cytochrome c oxidase genes in yeast. Burke PV, et al. **J Biol Chem** 1997 Jun 6;272(23):14705–12
Saccharomyces cerevisiae basic region-leucine zipper protein regulatory networks converge at the ATR1 structural gene. Coleman ST, et al. **J Biol Chem** 1997 Sep 12; 272(37):23224–30
A 2'-phosphotransferase implicated in tRNA splicing is essential in Saccharomyces cerevisiae. Culver GM, et al. **J Biol Chem** 1997 May 16;272(20):13203–10
A point mutation in the mitochondrial cytochrome b gene obviates the requirement for the nuclear encoded core protein 2 subunit in the cytochrome bc1 complex in Saccharomyces cerevisiae. di Rago JP, et al. **J Biol Chem** 1997 Feb 21;272(8):4699–704

Activated alleles of yeast SLN1 increase Mcm1-dependent reporter gene expression and diminish signaling through the Hog1 osmosensing pathway. Fassler JS, et al. **J Biol Chem** 1997 May 16;272(20):13365-71

The role of phosphatidylcholine biosynthesis in the regulation of the INO1 gene of yeast. Griac P, et al. **J Biol Chem** 1996 Oct 11;271(41):25692-8

Multiple Pdr1p/Pdr3p binding sites are essential for normal expression of the ATP binding cassette transporter protein-encoding gene PDR5. Katzmann DJ, et al. **J Biol Chem** 1996 Sep 20;271(38):23049-54

Isolation, expression, and regulation of the pgr1(+) gene encoding glutathione reductase absolutely required for the growth of Schizosaccharomyces pombe. Lee J, et al. **J Biol Chem** 1997 Sep 12;272(37):23042-9

The zinc binuclear cluster activator AlcR is able to bind to single sites but requires multiple repeated sites for synergistic activation of the alcA gene in Aspergillus nidulans. Panozzo C, et al. **J Biol Chem** 1997 Sep 5; 272(36):22859-65

A complex composed of tup1 and ssn6 represses transcription in vitro. Redd MJ, et al. **J Biol Chem** 1997 Apr 25; 272(17):11193-7

A conditionally expressed third partner stabilizes or prevents the formation of a transcriptional activator in a three-hybrid system. Tirode F, et al. **J Biol Chem** 1997 Sep 12;272(37):22995-9

Overexpression of the G1-cyclin gene CLN2 represses the mating pathway in Saccharomyces cerevisiae at the level of the MEKK Ste11. Wassmann K, et al. **J Biol Chem** 1997 May 16;272(20):13180-8

Different inducibility of expression of the two xylanase genes xyn1 and xyn2 in Trichoderma reesei. Zeilinger S, et al. **J Biol Chem** 1996 Oct 11;271(41):25624-9

The lumenal domain of Sec63p stimulates the ATPase activity of BiP and mediates BiP recruitment to the translocon in Saccharomyces cerevisiae. Corsi AK, et al. **J Cell Biol** 1997 Jun 30;137(7):1483-93

Human Bcl-2 reverses survival defects in yeast lacking superoxide dismutase and delays death of wild-type yeast. Longo VD, et al. **J Cell Biol** 1997 Jun 30;137(7):1581-8

The yeast v-SNARE Vti1p mediates two vesicle transport pathways through interactions with the t-SNAREs Sed5p and Pep12p. von Mollard GF, et al. **J Cell Biol** 1997 Jun 30;137(7):1511-24

Sec2p mediates nucleotide exchange on Sec4p and is involved in polarized delivery of post-Golgi vesicles. Walch-Solimena C, et al. **J Cell Biol** 1997 Jun 30; 137(7):1495-509

The Schizosaccharomyces pombe pyp1 protein tyrosine phosphatase negatively regulates nutrient monitoring pathways. Dal Santo P, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1919-25

The wis1 signal transduction pathway is required for expression of cAMP-repressed genes in fission yeast. Stettler S, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1927-35

Differential expression of the 45 kDa protein (actin) during the dimorphic transition of Sporothrix schenckii. Han-Yaku H, et al. **J Med Vet Mycol** 1996 Jun-Jul; 34(3):175-80

Complete transcriptional map of yeast chromosome XI in different life conditions. Richard GF, et al. **J Mol Biol** 1997 May 2;268(2):303-21

Genetic interactions among the transmembrane segments of the G protein coupled receptor encoded by the yeast STE2 gene. Sommers CM, et al. **J Mol Biol** 1997 Feb 28; 266(3):559-75

Regulation of hypoxic gene expression in yeast. Zitomer RS, et al. **Kidney Int** 1997 Feb;51(2):507-13

Yeast metallothionein gene expression in response to metals and oxidative stress. Liu XD, et al. **Methods** 1997 Mar; 11(3):289-99 (56 ref.)

Approaches to the study of Rox1 repression of the hypoxic genes in the yeast Saccharomyces cerevisiae. Zitomer RS, et al. **Methods** 1997 Mar;11(3):279-88

Reporter gene systems for assaying gene expression in yeast. Mount RC, et al. **Methods Mol Biol** 1996;53:239-48 (8 ref.)

Inducible expression cassettes in yeast: GAL4. Mylin LM, et al. **Methods Mol Biol** 1997;62:131-48

Induction of heat shock proteins and thermotolerance. Piper P. **Methods Mol Biol** 1996;53:313-7 (15 ref.)

Inducible expression cassettes in yeast: ADH2. Price VL. **Methods Mol Biol** 1997;62:149-57

Genetic regulation of nitrogen metabolism in the fungi. Marzluf GA. **Microbiol Mol Biol Rev** 1997 Mar;61(1):17-32 (129 ref.)

The Sch9 protein kinase in the yeast Saccharomyces cerevisiae controls cAPK activity and is required for nitrogen activation of the fermentable-growth-medium-induced (FGM) pathway. Crauwels M, et al. **Microbiology** 1997 Aug;143 (Pt 8):2627-37

SPR28, a sixth member of the septin gene family in Saccharomyces cerevisiae that is expressed specifically in sporulating cells. De Virgilio C, et al. **Microbiology** 1996 Oct;142 (Pt 10):2897-905

The KIPHO5 gene encoding a repressible acid phosphatase in the yeast Kluyveromyces lactis: cloning, sequencing and transcriptional analysis of the gene, and purification and properties of the enzyme. Fermiñán E, et al. **Microbiology** 1997 Aug;143 (Pt 8):2615-25

MIG1 overexpression causes flocculation in Saccharomyces cerevisiae. Shankar CS, et al. **Microbiology** 1996 Sep;142 (Pt 9):2663-7

Gene regulation during high-frequency switching in Candida albicans. Soll DR. **Microbiology** 1997 Feb;143 (Pt 2):279-88 (60 ref.)

Expression of CEL2 and CEL4, two proteins from Agaricus bisporus with similarity to fungal cellobiohydrolase I and beta-mannanase, respectively, is regulated by the carbon source. Yagüe E, et al. **Microbiology** 1997 Jan;143 (Pt 1):239-44

A novel signal transduction pathway in Saccharomyces cerevisiae defined by Snf3-regulated expression of HXT6. Liang H, et al. **Mol Biol Cell** 1996 Dec;7(12):1953-66

GLE2, a Saccharomyces cerevisiae homologue of the Schizosaccharomyces pombe export factor RAE1, is required for nuclear pore complex structure and function. Murphy R, et al. **Mol Biol Cell** 1996 Dec;7(12):1921-37

Yeast Pab1 interacts with Rna15 and participates in the control of the poly(A) tail length in vitro. Amrani N, et al. **Mol Cell Biol** 1997 Jul;17(7):3694-701

ZDS1 and ZDS2, genes whose products may regulate Cdc42p in Saccharomyces cerevisiae. Bi E, et al. **Mol Cell Biol** 1996 Oct;16(10):5264-75

Met31p and Met32p, two related zinc finger proteins, are involved in transcriptional regulation of yeast sulfur amino acid metabolism. Blaiseau PL, et al. **Mol Cell Biol** 1997 Jul;17(7):3640-8

The NOT, SPT3, and MOT1 genes functionally interact to regulate transcription at core promoters. Collart MA. **Mol Cell Biol** 1996 Dec;16(12):6668-76

Heat shock factor gains access to the yeast HSC82 promoter independently of other sequence-specific factors and antagonizes nucleosomal repression of basal and induced transcription. Erkine AM, et al. **Mol Cell Biol** 1996 Dec; 16(12):7004-17

Analysis of a meiosis-specific URS1 site: sequence requirements and involvement of replication protein A. Gailus-Durner V, et al. **Mol Cell Biol** 1997 Jul; 17(7):3536-46

The osmoregulatory pathway represses mating pathway activity in Saccharomyces cerevisiae: isolation of a FUS3 mutant that is insensitive to the repression mechanism. Hall JP, et al. **Mol Cell Biol** 1996 Dec;16(12):6715-23

A novel role for Cdc5p in DNA replication. Hardy CF, et al. **Mol Cell Biol** 1996 Dec;16(12):6775-82

Spliceosome activation by PRP2 ATPase prior to the first transesterification reaction of pre-mRNA splicing. Kim SH, et al. **Mol Cell Biol** 1996 Dec;16(12):6810-9

The transcription factor Swi5 regulates expression of the cyclin kinase inhibitor p40SIC1. Knapp D, et al. **Mol Cell Biol** 1996 Oct;16(10):5701-7

Genetic analysis of regulatory mutants affecting synthesis of extracellular proteinases in the yeast Yarrowia lipolytica: identification of a RIM101/pacC homolog. Lambert M, et al. **Mol Cell Biol** 1997 Jul;17(7):3966-76

Saccharomyces cerevisiae G1 cyclins differ in their intrinsic functional specificities. Levine K, et al. **Mol Cell Biol** 1996 Dec;16(12):6794-803

A yeast acetyl coenzyme A carboxylase mutant links very-long-chain fatty acid synthesis to the structure and function of the nuclear membrane-pore complex. Schneiter R, et al. **Mol Cell Biol** 1996 Dec;16(12):7161-72

Combinatorial regulation of the Saccharomyces cerevisiae CAR1 (arginase) promoter in response to multiple environmental signals. Smart WC, et al. **Mol Cell Biol** 1996 Oct;16(10):5876-87

Repression of gene expression by an exogenous sequence element acting in concert with a heterogeneous nuclear ribonucleoprotein-like protein, Nrd1, and the putative helicase Sen1. Steinmetz EJ, et al. **Mol Cell Biol** 1996 Dec; 16(12):6993-7003

The fission yeast pmk1+ gene encodes a novel mitogen-activated protein kinase homolog which regulates cell integrity and functions coordinately with the protein kinase C pathway. Toda T, et al. **Mol Cell Biol** 1996 Dec; 16(12):6752-64

The Cyc8 (Ssn6)-Tup1 corepressor complex is composed of one Cyc8 and four Tup1 subunits. Varanasi US, et al. **Mol Cell Biol** 1996 Dec;16(12):6707-14

Identification and characterization of mutations in the UPF1 gene that affect nonsense suppression and the formation of the Upf protein complex but not mRNA turnover. Weng Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5491-506

Screening and identification of yeast sequences that cause growth inhibition when overexpressed. Akada R, et al. **Mol Gen Genet** 1997 Apr 16;254(3):267-74

Gene expression from replicating plasmids in Aspergillus nidulans. Aleksenko A, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):242-6

The Kluyveromyces lactis equivalent of casein kinase I is required for the transcription of the gene encoding the low-affinity glucose permease. Blaisonneau J, et al. **Mol Gen Genet** 1997 Jan 27;253(4):469-77

Isolation of a carbon source-regulated gene from Ustilago maydis. Bottin A, et al. **Mol Gen Genet** 1996 Dec 13; 253(3):342-52

Homologous and heterologous expression of a ribosomal protein gene in Podospora anserina requires an intron. Dequard-Chablat M, et al. **Mol Gen Genet** 1997 Feb 20; 253(5):546-52

Integration of the multiple controls regulating the expression of the arginase gene CAR1 of Saccharomyces cerevisiae in response to differentnitrogen signals: role of Gln3p, ArgRp-Mcm1p, and Ume6p. Dubois E, et al. **Mol Gen Genet** 1997 Feb 20;253(5):568-80

Cell cycle, DNA damage and heat shock regulate suc22+ expression in fission yeast. Harris P, et al. **Mol Gen Genet** 1996 Sep 13;252(3):284-91

Genetic interactions indicate a role for Mdg1p and the SH3 domain protein Bem1p in linking the G-protein mediated yeast pheromone signalling pathway to regulators of cell polarity. Leberer E, et al. **Mol Gen Genet** 1996 Oct 16; 252(5):608-21

Characterization of a promoter mutation in the CYP3 gene of Saccharomyces cerevisiae which cancels regulation by Cyp1p (Hap1p) without affecting its binding site. Lodi T, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):103-10

Characterization of a novel DNA damage-inducible gene of Saccharomyces cerevisiae, DIN7, which is a structural homolog of the RAD2 and RAD27 DNA repair genes. Mieczkowski PA, et al. **Mol Gen Genet** 1997 Feb 27; 253(6):655-65

The Schizosaccharomyces pombe map1 gene encodes an SRF/MCM1-related protein required for P-cell specific gene expression. Nielsen O, et al. **Mol Gen Genet** 1996 Dec 13;253(3):387-92

Dominant mutations affecting expression of pH-regulated genes in Yarrowia lipolytica. Otero RC, et al. **Mol Gen Genet** 1996 Sep 13;252(3):311-9

The MBR1 gene from Saccharomyces cerevisiae is activated by and required for growth under sub-optimal conditions. Reisdorf P, et al. **Mol Gen Genet** 1997 Jul;255(4):400-9

The phytoene dehydrogenase gene of Phycomyces: regulation of its expression by blue light and vitamin A. Ruiz-Hidalgo MJ, et al. **Mol Gen Genet** 1997 Feb 27; 253(6):734-44

Characterization of upstream activating sequences involved in activation and regulation of pho4 expression in Schizosaccharomyces pombe. Silvestre N, et al. **Mol Gen Genet** 1997 Jan 27;253(4):428-38

Transcription elongation factor S-II is not required for transcription-coupled repair in yeast. Verhage RA, et al. **Mol Gen Genet** 1997 Apr 16;254(3):284-90

UBI4, the polyubiquitin gene of Saccharomyces cerevisiae, is a heat shock gene that is also subject to catabolite derepression control. Watt R, et al. **Mol Gen Genet** 1997 Jan 27;253(4):439-47

Cloning of the ASN1 and ASN2 genes encoding asparagine synthetases in Saccharomyces cerevisiae: differential regulation by the CCAAT-box-binding factor. Dang VD, et al. **Mol Microbiol** 1996 Nov;22(4):681-92

Regulation by low temperatures and anaerobiosis of a yeast gene specifying a putative GPI-anchored plasma membrane protein [corrected] [published erratum appears in Mol Microbiol 1996 Jul;21(2):431] Donzeau M, et al. **Mol Microbiol** 1996 Apr;20(2):449-59

Functional in vivo studies of the Neurospora crassa cys-14 gene upstream region: importance of CYS3-binding sites for regulated expression. Li Q, et al. **Mol Microbiol** 1996 Oct;22(1):109-17

Carbon catabolite repression of xylanase I (xyn1) gene expression in Trichoderma reesei. Mach RL, et al. **Mol Microbiol** 1996 Sep;21(6):1273-81

Mutations in a dispensable region of the UaY transcription factor of Aspergillus nidulans differentially affect the expression of structural genes. Oestreicher N, et al. **Mol Microbiol** 1997 Jun;24(6):1189-99

Amino acid-dependent regulation of the Saccharomyces cerevisiae GSH1 gene by hydrogen peroxide. Stephen DW, et al. **Mol Microbiol** 1997 Jan;23(2):203-10

The gene encoding the major proline transporter of Aspergillus nidulans is upregulated during conidiospore germination and in response to proline induction and amino acid starvation. Tazebay UH, et al. **Mol Microbiol** 1997 Apr;24(1):105-17

Acetylglutamate synthase from Neurospora crassa: structure and regulation of expression. Yu YG, et al. **Mol Microbiol** 1996 Nov;22(3):545-54

Endopolygalacturonase genes from Colletotrichum lindemuthianum: cloning of CLPG2 and comparison of its expression to that of CLPG1 during saprophytic and parasitic growth of the fungus. Centis S, et al. **Mol Plant Microbe Interact** 1997 Aug;10(6):769-75

A gene encoding a protein elicitor of Phytophthora infestans is down-regulated during infection of potato. Kamoun S, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):13-20

The histone deacetylase RPD3 counteracts genomic silencing in Drosophila and yeast. De Rubertis F, et al. **Nature** 1996 Dec 12;384(6609):589-91

Transcriptional activation by recruitment. Ptashne M, et al. **Nature** 1997 Apr 10;386(6625):569-77 (101 ref.)

One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins. Lafontaine D, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3469-71

Global alterations in chromatin accessibility associated with loss of SIN4 function. Macatee T, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1240-7

Novel, activated RAS mutations alter protein-protein interactions. Dalley BK, et al. **Oncogene** 1996 Sep 19; 13(6):1209-20

Circadian clock-controlled genes isolated from Neurospora crassa are late night- to early morning-specific. Bell-Pedersen D, et al. **Proc Natl Acad Sci U S A** 1996

Nov 12;93(23):13096-101
The p20 and Ded1 proteins have antagonistic roles in eIF4E-dependent translation in Saccharomyces cerevisiae. de la Cruz J, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5201-6
Role of the casein kinase I isoform, Hrr25, and the cell cycle-regulatory transcription factor, SBF, in the transcriptional response to DNA damage in Saccharomyces cerevisiae. Ho U, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):581-6
Mycoparasitic interaction relieves binding of the Cre1 carbon catabolite repressor protein to promoter sequences of the ech42 (endochitinase-encoding) gene in Trichoderma harzianum. Lorito M, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14868-72
Mutational studies of yeast transcription factor IIB in vivo reveal a functional surface important for gene activation. Shaw SP, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2427-32
Galactose-dependent reversible interaction of Gal3p with Gal80p in the induction pathway of Gal4p-activated genes of Saccharomyces cerevisiae. Yano K, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1721-6
The origin recognition complex, SIR1, and the S phase requirement for silencing. Fox CA, et al. **Science** 1997 Jun 6;276(5318):1547-51
Which came first, the hypha or the yeast? [comment] Magee PT. **Science** 1997 Jul 4;277(5322):52-3. Comment on: Science 1997 Jul 4;277(5322):105-9.
Transcription factors vs nucleosomes: regulation of the PHO5 promoter in yeast. Svaren J, et al. **Trends Biochem Sci** 1997 Mar;22(3):93-7 (50 ref.)
Epigenetic phenomena in filamentous fungi: useful paradigms or repeat-induced confusion? [see comments] Selker EU. **Trends Genet** 1997 Aug;13(8):296-301 (57 ref.). Comment in: Trends Genet 1997 Aug;13(8):293-5.
An uncertain silence [see comments] Sherman JM, et al. **Trends Genet** 1997 Aug;13(8):308-13 (53 ref.). Comment in: Trends Genet 1997 Aug;13(8):293-5.
The AFT1 transcriptional factor is differentially required for expression of high-affinity iron uptake genes in Saccharomyces cerevisiae. Casas C, et al. **Yeast** 1997 Jun 15;13(7):621-37
Identification of genes with nutrient-controlled expression by PCR-mapping in the yeast Saccharomyces cerevisiae. Crauwels M, et al. **Yeast** 1997 Aug;13(10):973-84
Functional analysis of YCL09C: evidence for a role as the regulatory subunit of acetolactate synthase. Cullin C, et al. **Yeast** 1996 Dec;12(15):1511-8
Reconstitution of the NF-kappa B system in Saccharomyces cerevisiae for isolation of effectors by phenotype modulation. Epinat JC, et al. **Yeast** 1997 Jun 15; 13(7):599-612
Genetic aspects of carbon catabolite repression of the STA2 glucoamylase gene in Saccharomyces cerevisiae. Kartasheva NN, et al. **Yeast** 1996 Oct;12(13):1297-300
Removal of an intron with unique 3' branch site creates an amino-terminal protein sequence directing the scERV1 gene product to mitochondria. Lisowsky T. **Yeast** 1996 Dec;12(15):1501-10
Deregulation of CLN1 and CLN2 in the Saccharomyces cerevisiae whi2 mutant. Radcliffe P, et al. **Yeast** 1997 Jun 30;13(8):707-15
Mechanisms of salt tolerance conferred by overexpression of the HAL1 gene in Saccharomyces cerevisiae. Rios G, et al. **Yeast** 1997 May;13(6):515-28
Stationary-phase gene expression in Saccharomyces cerevisiae during wine fermentation. Riou C, et al. **Yeast** 1997 Aug;13(10):903-15

DRUG EFFECTS

Sequence analysis and expression of the Penicillium chrysogenum nitrate reductase encoding gene (niaD). Haas H, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1-2):81-4
Isolation of mRNAs induced by a hazardous chemical in white-rot fungus, Coriolus versicolor, by differential display. Iimura Y, et al. **FEBS Lett** 1997 Jul 28;412(2):370-4
Genetic regulation of phospholipid biosynthesis in Saccharomyces cerevisiae. Greenberg ML, et al. **Microbiol Rev** 1996 Mar;60(1):1-20 (230 ref.)
High cAMP levels antagonize the reprogramming of gene expression that occurs at the diauxic shift in Saccharomyces cerevisiae. Boy-Marcotte E, et al. **Microbiology** 1996 Mar; 142 (Pt 3):459-67
Two different repressors collaborate to restrict expression of the yeast glucose transporter genes HXT2 and HXT4 to low levels of glucose. Ozcan S, et al. **Mol Cell Biol** 1996 Oct;16(10):5536-45
Transcriptional regulation by ergosterol in the yeast Saccharomyces cerevisiae. Smith SJ, et al. **Mol Cell Biol** 1996 Oct;16(10):5427-32
Regulation by tetracycline of gene expression in Saccharomyces cerevisiae. Nagahashi S, et al. **Mol Gen Genet** 1997 Jul;255(4):372-5
Glucose represses the lactose-galactose regulon in Kluyveromyces lactis through a SNF1 and MIG1-dependent pathway that modulates galactokinase (GAL1) gene expression. Dong J, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3657-64
A set of vectors with a tetracycline-regulatable promoter system for modulated gene expression in Saccharomyces cerevisiae. Garí E, et al. **Yeast** 1997 Jul;13(9):837-48

GENETICS

Yeast transcriptional regulatory mechanisms. Struhl K. **Annu Rev Genet** 1995;29:651-74 (151 ref.)
Transcriptional control of the cellulase genes in Trichoderma reesei. el-Dorry H, et al. **Braz J Med Biol Res** 1996 Jul; 29(7):905-9
Analysis of mutations in the creA gene involved in carbon catabolite repression in Aspergillus nidulans. Shroff RA, et al. **Can J Microbiol** 1996 Sep;42(9):950-9
Differential expression of superoxide dismutases containing Ni and Fe/Zn in Streptomyces coelicolor. Kim FJ, et al. **Eur J Biochem** 1996 Oct 1;241(1):178-85
Isolation and characterization of mutations affecting expression of the delta9- fatty acid desaturase gene, OLE1, in Saccharomyces cerevisiae. Fujimori K, et al. **FEBS Lett** 1997 Aug 18;413(2):226-30
The amdA regulatory gene of Aspergillus nidulans: characterization of gain-of-function mutations and identification of binding sites for the gene product. Andrianopoulos A, et al. **Fungal Genet Biol** 1996 Feb; 21(1):50-63
Schizosaccharomyces pombe gad7+ encodes a phosphoprotein with a bZIP domain, which is required for proper G1 arrest and gene expression under nitrogen starvation. Kanoh J, et al. **Genes Cells** 1996 Apr; 1(4):391-408
Isolation and characterization of fission yeast mutants defective in the assembly and placement of the contractile actin ring. Chang F, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):131-42
An Ssn6-Tup1-dependent negative regulatory element controls sporulation-specific expression of DIT1 and DIT2 in Saccharomyces cerevisiae. Friesen H, et al. **Mol Cell Biol** 1997 Jan;17(1):123-34
Regulation of gene expression during meiosis in Saccharomyces cerevisiae: SPR3 is controlled by both ABF1 and a new sporulation control element. Ozsarac N, et al. **Mol Cell Biol** 1997 Mar;17(3):1152-9
Homologous segments in three subunits of the guanine nucleotide exchange factor eIF2B mediate translational regulation by phosphorylation of eIF2. Pavitt GD, et al. **Mol Cell Biol** 1997 Mar;17(3):1298-313
Aspergillus asexual reproduction and sexual reproduction are differentially affected by transcriptional and translational mechanisms regulating stunted gene expression. Wu J, et al. **Mol Cell Biol** 1997 Oct;17(10):6191-201
Expression of a reporter gene interrupted by the Candida albicans group I intron is inhibited by base analogs. Mercure S, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):431-7
The CDC6 gene is required for centromeric, episomal, and 2-microns plasmid stability in the yeast Saccharomyces cerevisiae. Storici F, et al. **Plasmid** 1995 Nov;34(3):184-97
Signaling phosphate starvation. Lenburg ME, et al. **Trends Biochem Sci** 1996 Oct;21(10):383-7 (42 ref.)
[The cloning and expression of the beta-galactosidase gene of Candida pseudotropicalis yeasts in Escherichia coli cells] Tretiak KA, et al. **Mikrobiol Z** 1997 Jan-Feb;59(1):11-7 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Cloning and expression of the gene encoding a novel proteinase from Tritirachium album limber. Samal B, et al. **Adv Exp Med Biol** 1996;379:95-104
Expression of lip genes during growth in soil and oxidation of anthracene by Phanerochaete chrysosporium. Bogan BW, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3697-703
Repeat-induced gene silencing: common mechanisms in plants and fungi. Meyer P. **Biol Chem Hoppe Seyler** 1996 Feb;377(2):87-95 (91 ref.)
The fungal mitochondrial genome project: evolution of fungal mitochondrial genomes and their gene expression. Paquin B, et al. **Curr Genet** 1997 May;31(5):380-95
Cloning and characterisation of glutamine synthetase from Colletotrichum gloeosporioides and demonstration of elevated expression during pathogenesis on Stylosanthes guianensis. Stephenson SA, et al. **Curr Genet** 1997 May; 31(5):447-54
Effects of Sin- versions of histone H4 on yeast chromatin structure and function. Wechser MA, et al. **EMBO J** 1997 Apr 15;16(8):2086-95
Developmental and photoregulation of three Neurospora crassa carotenogenic genes during conidiation induced by desiccation. Li C, et al. **Fungal Genet Biol** 1996 Feb; 21(1):101-8
Isolation of Aspergillus nidulans mutants that overcome brlA-induced growth arrest. Marhoul J, et al. **Fungal Genet Biol** 1996 Feb;21(1):109-17
Cross-pathway and pathway-specific control of amino acid biosynthesis in Magnaporthe grisea. Shen WC, et al. **Fungal Genet Biol** 1996 Feb;21(1):40-9
The role of Sas2, an acetyltransferase homologue of Saccharomyces cerevisiae, in silencing and ORC function. Ehrenhofer-Murray AE, et al. **Genetics** 1997 Apr; 145(4):923-34
Nitrogen GATA factors participate in transcriptional regulation of vacuolar protease genes in Saccharomyces cerevisiae. Coffman JA, et al. **J Bacteriol** 1997 Sep; 179(17):5609-13
Two divergent catalase genes are differentially regulated during Aspergillus nidulans development and oxidative stress. Kawasaki L, et al. **J Bacteriol** 1997 May; 179(10):3284-92
Role of four major cellulases in triggering of cellulase gene expression by cellulose in Trichoderma reesei. Seiboth B, et al. **J Bacteriol** 1997 Sep;179(17):5318-20
Antisense RNA inactivation of gene expression of a cell-cell adhesion protein (gp64) in the cellular slime mold Polysphondylium pallidum. Funamoto S, et al. **J Cell Sci** 1996 May;109 (Pt 5):1009-16
Constitutive expression in gal7 mutants of Kluyveromyces lactis is due to internal production of galactose as an inducer of the Gal/Lac regulon. Cardinali G, et al. **Mol Cell Biol** 1997 Mar;17(3):1722-30
Cyclic AMP-dependent protein kinase inhibits ADH2 expression in part by decreasing expression of the transcription factor gene ADR1. Dombek KM, et al. **Mol Cell Biol** 1997 Mar;17(3):1450-8
A basic helix-loop-helix-leucine zipper transcription complex in yeast functions in a signaling pathway from mitochondria to the nucleus. Jia Y, et al. **Mol Cell Biol** 1997 Mar;17(3):1110-7
A complex containing two transcription factors regulates peroxisome proliferation and the coordinate induction of beta-oxidation enzymes in Saccharomyces cerevisiae. Karpichev IV, et al. **Mol Cell Biol** 1997 Jan;17(1):69-80
PHR2 of Candida albicans encodes a functional homolog of the pH-regulated gene PHR1 with an inverted pattern of pH-dependent expression. Mühlschlegel FA, et al. **Mol Cell Biol** 1997 Oct;17(10):5960-7
Characterization of the Wtm proteins, a novel family of Saccharomyces cerevisiae transcriptional modulators with roles in meiotic regulation and silencing. Pemberton LF, et al. **Mol Cell Biol** 1997 Aug;17(8):4830-41
Role of alpha2 protein in donor locus selection during mating type interconversion. Szeto L, et al. **Mol Cell Biol** 1997 Feb;17(2):751-9
Identification of amdX, a new Cys-2-His-2 (C2H2) zinc-finger gene involved in the regulation of the amdS gene of Aspergillus nidulans. Murphy RL, et al. **Mol Microbiol** 1997 Feb;23(3):591-602

RADIATION EFFECTS

White collar 2, a partner in blue-light signal transduction, controlling expression of light-regulated genes in Neurospora crassa. Linden H, et al. **EMBO J** 1997 Jan 2;16(1):98-109
Identification and expression of uvi31+, a UV-inducible gene from Schizosaccharomyces pombe. Kim SH, et al. **Environ Mol Mutagen** 1997;30(1):72-81
Developmental and photoregulation of three Neurospora crassa carotenogenic genes during conidiation induced by desiccation. Li C, et al. **Fungal Genet Biol** 1996 Feb; 21(1):101-8

GENE EXPRESSION REGULATION, LEUKEMIC

Modulation of intercellular adhesion molecule 1 (ICAM-1) expression on the human mast-cell line (HMC)-1 by inflammatory mediators. Wedi B, et al. **Allergy** 1996 Oct; 51(10):676-84
Aberrant expression of CD19 as a marker of monocytic lineage in acute myelogenous leukemia [published erratum appears in Am J Clin Pathol 1997 May;107(5):621] Tisone JA, et al. **Am J Clin Pathol** 1997 Mar;107(3):283-91
Expression of a cosmid containing the LCR, (A)gamma, delta, and beta globin genes in mouse erythroleukemia cells. Flamm M, et al. **Am J Hematol** 1996 Nov;53(3):181-7
Relationship between MDR1 gene and surface markers in acute myeloid leukemia. Zöchbauer S, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):749-52
Interferon-gamma induces Ice gene expression and enhances cellular susceptibility to apoptosis in the U937 leukemia cell line. Tamura T, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):21-6
Altered expression of the retinoblastoma tumor-suppressor gene in leukemic cell lines inhibits induction of differentiation but not G1-accumulation. Bergh G, et al. **Blood** 1997 Apr 15;89(8):2938-50
High levels of Wilms' tumor gene (wt1) mRNA in acute myeloid leukemias are associated with a worse long-term outcome. Bergmann L, et al. **Blood** 1997 Aug 1; 90(3):1217-25
Expression and regulation of Bcl-2, Bcl-xl, and Bax correlate with p53 status and sensitivity to apoptosis in childhood acute lymphoblastic leukemia. Findley HW, et al. **Blood** 1997 Apr 15;89(8):2986-93
Aberrant overexpression of the Wilms tumor gene (WT1) in human leukemia. Inoue K, et al. **Blood** 1997 Feb 15; 89(4):1405-12
TRA1, a novel mRNA highly expressed in leukemogenic mouse monocytic sublines but not in nonleukemogenic sublines. Kasukabe T, et al. **Blood** 1997 Apr 15; 89(8):2975-85
Cell-cycle-dependent regulation of erythropoietin receptor gene. Komatsu N, et al. **Blood** 1997 Feb 15;89(4):1182-8
Alterations in expression, binding to ligand and DNA, and transcriptional activity of rearranged and wild-type retinoid receptors in retinoid-resistant acute promyelocytic leukemia cell lines. Rosenauer A, et al. **Blood** 1996 Oct 1;88(7):2671-82

Increased expression of the Wilms tumor gene (WT1) at relapse in acute leukemia [letter] Tamaki H, et al. **Blood** 1996 Dec 1;88(11):4396–8

Cellular expression of antiapoptotic BCL–2 oncoprotein in newly diagnosed childhood acute lymphoblastic leukemia: a Children's Cancer Group Study. Uckun FM, et al. **Blood** 1997 May 15;89(10):3769–77

Transcription factors of the bHLH and LIM families: synergistic mediators of T cell acute leukemia? Baer R, et al. **Curr Top Microbiol Immunol** 1997;220:55–65 (58 ref.)

The TEL gene contributes to the pathogenesis of myeloid and lymphoid leukemias by diverse molecular genetic mechanisms. Golub TR, et al. **Curr Top Microbiol Immunol** 1997;220:67–79 (15 ref.)

Characterisation of the PML/RAR alpha rearrangement associated with t(15;17) acute promyelocytic leukaemia. Grimwade D, et al. **Curr Top Microbiol Immunol** 1997; 220:81–112 (153 ref.)

E2A–HLF chimeric transcription factors in pro–B cell acute lymphoblastic leukemia. Look AT. **Curr Top Microbiol Immunol** 1997;220:45–53 (54 ref.)

Translational regulation of human p53 gene expression. Fu L, et al. **EMBO J** 1996 Aug 15;15(16):4392–401

Defective expression of beta 1–integrins in cells with constitutively active alpha L beta 2–integrins. Hedman H, et al. **Exp Cell Res** 1997 May 1;232(2):270–6

Altered gene expression associated with apoptosis in a pre–B–leukemic cell line following cross–linking of MHC class I. Nilsson N, et al. **Exp Cell Res** 1997 Feb 25; 231(1):190–7

A novel transcript encoded within the 10–kb first intron of the human p53 tumor suppressor gene (D17S2179E) is induced during differentiation of myeloid leukemia cells. Reisman D, et al. **Genomics** 1996 Dec 15;38(3):364–70

Adult and childhood acute lymphoblastic leukemia: clinico–biological differences based on CD34 antigen expression. Cascavilla N, et al. **Haematologica** 1997 Jan–Feb;82(1):31–7

Expression of c–mpl mRNA, the receptor for thrombopoietin, in acute myeloid leukemia blasts identifies a group of patients with poor response to intensive chemotherapy. Wetzler M, et al. **J Clin Oncol** 1997 Jun; 15(6):2262–8

Co–expression of several molecular mechanisms of multidrug resistance and their significance for paclitaxel cytotoxicity in human AML HL–60 cells. Huang Y, et al. **Leukemia** 1997 Feb;11(2):253–7

Expression of the Zn finger gene, EVI–1, in acute promyelocytic leukemia. Xi ZF, et al. **Leukemia** 1997 Feb; 11(2):212–20

Silencing and selective methylation of the normal topoisomerase I gene in camptothecin–resistant CEM/C2 human leukemia cells. Fujimori A, et al. **Oncol Res** 1996; 8(7–8):295–301

Changes in chromatin conformation regulate the 5–lipoxygenase gene expression during differentiation of HL60 cells. Ponton A, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Sep; 55(3):139–43

Differential expression of low Mr GTP–binding proteins in human megakaryoblastic leukemia cell line, MEG–01, and their possible involvement in the differentiation process. Nagata K, et al. **Thromb Haemost** 1997 Feb;77(2):368–75

[Acute myelogenous leukemia with ins(21;8) expressing AML–1–MTG8 fusion transcript] Kazama H, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1297–302 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Targeting c–myc in leukemia. Calabretta B, et al. **Anticancer Drug Des** 1997 Jul;12(5):373–81 (31 ref.)

Regulation of gamma T–cell antigen receptor expression by intracellular calcium in acute lymphoblastic leukemia cell line DND41. Peralta–Zaragoza O, et al. **Arch Med Res** 1996 Autumn;27(3):305–10

Measurement of spontaneous and therapeutic agent–induced apoptosis with BCL–2 protein expression in acute myeloid leukemia. Banker DE, et al. **Blood** 1997 Jan 1;89(1):243–55

Granulocyte colony–stimulating factor activation of Stat3 alpha and Stat3 beta in immature normal and leukemic human myeloid cells. Chakraborty A, et al. **Blood** 1996 Oct 1;88(7):2442–9

Nitric oxide alters the expression of gamma–globin, H–ferritin, and transferrin receptor in human K562 cells at the posttranscriptional level. Domachowske JB, et al. **Blood** 1996 Oct 15;88(8):2980–8

A variant CD30 protein lacking extracellular and transmembrane domains is induced in HL–60 by tetradecanoylphorbol acetate and is expressed in alveolar macrophages. Horie R, et al. **Blood** 1996 Oct 1; 88(7):2422–32

Flt3 ligand stimulates proliferation and inhibits apoptosis of acute myeloid leukemia cells: regulation of Bcl–2 and Bax. Lisovsky M, et al. **Blood** 1996 Nov 15;88(10):3987–97

Involvement of retinoic acid receptor–alpha–mediated signaling pathway in induction of CD38 cell–surface antigen. Mehta K, et al. **Blood** 1997 May 15;89(10):3607–14

Interferon augments PML and PML/RAR alpha expression in normal myeloid and acute promyelocytic cells and cooperates with all–trans retinoic acid to induce maturation of a retinoid–resistant promyelocytic cell line. Nason–Burchenal K, et al. **Blood** 1996 Nov 15; 88(10):3926–36

In vitro and in vivo reversal of multidrug resistance in a human leukemia–resistant cell line by mdr1 antisense oligodeoxynucleotides. Cucco C, et al. **Cancer Res** 1996 Oct 1;56(19):4332–7

Transition to tetraploidy in 1,25–dihydroxyvitamin D3–resistant HL60 cells is preceded by reduced growth factor dependence and constitutive up–regulation of Sp1 and AP–1 transcription factors. Studzinski GP, et al. **Cancer Res** 1996 Dec 1;56(23):5513–21

Altered kinetics of Tap–1 gene expression in macrophages following stimulation with both IFN–gamma and LPS. Cramer LA, et al. **Cell Immunol** 1997 May 25;178(1):53–61

Erythropoietin–induced erythroid differentiation of the human erythroleukemia cell line TF–1 correlates with impaired STAT5 activation. Chrétien S, et al. **EMBO J** 1996 Aug 15;15(16):4174–81

The direct effect of interferon–gamma on human eosinophilic leukemia cell lines: the induction of interleukin–5 mRNA and the presence of an interferon–gamma receptor. Ishizuka T, et al. **Inflammation** 1996 Apr;20(2):151–63

Transient expression of M–CSF is important for osteoclast–like cell differentiation in a monocytic leukemia cell line. Aoki H, et al. **J Cell Biochem** 1997 Jan;64(1):67–76

Mechanisms in interleukin–2 protection against glucocorticoid–induced apoptosis: regulation of AP–1 and glucocorticoid receptor transcriptional activities. Guizani L, et al. **J Interferon Cytokine Res** 1996 Aug;16(8):601–9

Rotenone, a mitochondrial NADH dehydrogenase inhibitor, induces cell surface expression of CD13 and CD38 and apoptosis in HL–60 cells. Matsunaga T, et al. **Leuk Lymphoma** 1996 Feb;20(5–6):487–94

NF–E2p18/mafK is required in DMSO–induced differentiation of Friend erythroleukemia cells by enhancing NF–E2 activity. Francastel C, et al. **Leukemia** 1997 Feb;11(2):273–80

Basic fibroblast growth factor (bFGF) upregulates the expression of bcl–2 in B cell chronic lymphocytic leukemia cell lines resulting in delaying apoptosis. König A, et al. **Leukemia** 1997 Feb;11(2):258–65

Role of c–jun induction in the glucocorticoid–evoked apoptotic pathway in human leukemic lymphoblasts. Zhou F, et al. **Mol Endocrinol** 1996 Mar;10(3):306–16

GENETICS

Expression of an abnormal sized c–kit transcript in Hong Kong Chinese acute lymphoblastic leukaemia patients. Chui CH, et al. **Clin Lab Haematol** 1996 Dec;18(4):261–3

Induction of apoptotic DNA fragmentation and c–jun downregulation in human myeloid leukemia cells by the permeant Ca2+ chelator BAPTA/AM. Grant S, et al. **Oncol Res** 1995;7(7–8):381–92

PHYSIOLOGY

Involvement of the CCND1 gene in hairy cell leukemia. de Boer CJ, et al. **Ann Oncol** 1996 Mar;7(3):251–6

CD6 ligation modulates the Bcl–2/Bax ratio and protects chronic lymphocytic leukemia B cells from apoptosis induced by anti–IgM. Osorio LM, et al. **Blood** 1997 Apr 15;89(8):2833–41

Protein tyrosine phosphatase–dependent activation of beta–globin and delta–aminolevulinic acid synthase genes in the camptothecin–induced IW32 erythroleukemia cell differentiation. Wang MC, et al. **Mol Pharmacol** 1997 Apr; 51(4):558–66

GENE EXPRESSION REGULATION, NEOPLASTIC

Flow cytometric evaluation of proliferating cell nuclear antigen expression in human hematopoietic malignancies. Erlanson M, et al. **Acta Oncol** 1997;36(1):17–22

Multidrug–resistant gene expression in small–cell lung cancer. Savaraj N, et al. **Am J Clin Oncol** 1997 Aug; 20(4):398–403

p53 expression in neurofibroma and malignant peripheral nerve sheath tumor. An immunohistochemical study of sporadic and NF1–associated tumors [see comments] Halling KC, et al. **Am J Clin Pathol** 1996 Sep;106(3):282–8 . Comment in: Am J Clin Pathol 1996 Sep;106(3):271–2.

Phenotypic heterogeneity of nodular hidradenoma. Immunohistochemical analysis with emphasis on cytokeratin expression. Biernat W, et al. **Am J Dermatopathol** 1996 Dec;18(6):592–6

Expression and mutation of the tumor suppressor gene p53 in AIDS–associated Kaposi's sarcoma. Li JJ, et al. **Am J Dermatopathol** 1997 Aug;19(4):373–8

Cell proliferation and p53 protein expressions in cutaneous epithelial neoplasms. Onodera H, et al. **Am J Dermatopathol** 1996 Dec;18(6):580–8

The prediction of lymph node metastases in colorectal cancer by expression of the nucleoside diphosphate kinase/nm23–H1 and histopathological variables. Tannapfel A, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1182–6

Correlation between mutations in p53 gene and protein expression in human lymphomas. Martinez–Delgado B, et al. **Am J Hematol** 1997 May;55(1):1–8

Expression of EVI1 and the Retinoblastoma genes in acute myelogenous leukemia with t(3;13)(q26;q13–14). Yufu Y, et al. **Am J Hematol** 1996 Sep;53(1):30–4

Phenotypic diversity of neoplastic chondrocytes and extracellular matrix gene expression in cartilaginous neoplasms. Aigner T, et al. **Am J Pathol** 1997 Jun; 150(6):2133–41

Increased beta–catenin protein and somatic APC mutations in sporadic aggressive fibromatoses (desmoid tumors). Alman BA, et al. **Am J Pathol** 1997 Aug;151(2):329–34

Expression of urokinase–type plasminogen activator, stromelysin 1, stromelysin 3, and matrilysin genes in lung carcinomas. Bolon I, et al. **Am J Pathol** 1997 May; 150(5):1619–29

Frequent p16INK4 (MTS1) gene inactivation in testicular germ cell tumors. Chaubert P, et al. **Am J Pathol** 1997 Sep;151(3):859–65

Correlation of metastasis–related gene expression with metastatic potential in human prostate carcinoma cells implanted in nude mice using an in situ messenger RNA hybridization technique. Greene GF, et al. **Am J Pathol** 1997 May;150(5):1571–82

Expression of the putative proto–oncogene His–1 in normal and neoplastic tissues. Li J, et al. **Am J Pathol** 1997 Apr; 150(4):1297–305

Expression of the Ets–1 proto–oncogene in human gastric carcinoma: correlation with tumor invasion. Nakayama T, et al. **Am J Pathol** 1996 Dec;149(6):1931–9

Early events of metastasis in the microcirculation involve changes in gene expression of cancer cells. Tracking mRNA levels of metastasizing cancer cells in the chick embryo chorioallantoic membrane. Shioda T, et al. **Am J Pathol** 1997 Jun;150(6):2099–112

Reduced TSC2 RNA and protein in sporadic astrocytomas and ependymomas. Wienecke R, et al. **Ann Neurol** 1997 Aug;42(2):230–5

Detection of Barrett's adenocarcinoma of the gastric cardia with sucrase isomaltase and p53. Iannettoni MD, et al. **Ann Thorac Surg** 1996 Nov;62(5):1460–5; discussion 1465–6

Immunohistochemical analysis of nm23–H1 in stage I non–small cell lung cancer: a useful marker in prediction of metastases. Lai WW, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1500–4

Differential expression of apoptosis associated genes bax and bcl–2 in ovarian cancer. Marx D, et al. **Anticancer Res** 1997 May–Jun;17(3C):2233–40

Differential gene expression in human mammary carcinoma cells: identification of a new member of a receptor family. Schiemann S, et al. **Anticancer Res** 1997 Jan–Feb; 17(1A):13–20

The cell cycle in breast cancer. Landberg G, et al. **APMIS** 1997 Aug;105(8):575–89 (105 ref.)

Absolute requirement of aryl hydrocarbon receptor nuclear translocator protein for gene activation by hypoxia. Salceda S, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):389–94

Over–expression of glutathione S–transferases, DT–diaphorase and an apparently tumour–specific cytosolic class–3 aldehyde dehydrogenase by Warthin tumours and mucoepidermoid carcinomas of the human parotid gland. Sreerama L, et al. **Arch Oral Biol** 1996 Jun; 41(6):597–605

An in vitro system for identifying agents capable of changing serum lipoprotein(a) concentration by regulating the transcriptional activity of the apolipoprotein(a) gene promoter. Azuma H, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):570–5

Expression of co–factors (SMRT and Trip–1) for retinoic acid receptors in human neuroectodermal cell lines. Bernardini S, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):278–82

Involvement of Sonic hedgehog in the cell growth of LK–2 cells, human lung squamous carcinoma cells. Fujita E, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):658–64

Elevated expression of DNA polymerase beta gene in glioma cell lines with acquired resistance to 1–(4–amino–2–methyl–5–pyrimidinyl)methyl–3–(2–chloroethyl)–3– nitrosourea. Gomi A, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):558–63

Egr family member proteins are involved in the activation of the cathepsin L gene in v–src–transformed cells. Ishidoh K, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):665–9

Role of posttranscriptional processes in the regulation of glutathione S–transferase P1 gene expression in human breast cancer cells. Jhaveri MS, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):729–34

Differential expression of Rab3 isoforms during differentiation of pancreatic acinar cell line AR42J. Klengel R, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):719–22

Activation but not inactivation of the MTS1 gene is associated with primary colorectal carcinomas. Ohhara M, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):791–5

Insulin–like growth factor I induces tumor hexokinase RNA expression in cancer cells. Sebastian S, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):389–93

Biglycan gene promoter activity in osteosarcoma cells is regulated by cyclic AMP. Ungefroren H, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):413–7

Human colorectal carcinogenesis is associated with deregulation of homeobox gene expression. Vider BZ, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):742–8

Binding of wild–type p53 by topoisomerase II and

overexpression of topoisomerase II in human hepatocellular carcinoma. Yuwen H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):194–7

Basement membrane induced differentiation of HEC-1B(L) endometrial adenocarcinoma cells affects both morphology and gene expression. Hopfer H, et al. **Biochem Cell Biol** 1996;74(2):165–77

Regulation of the ferrochelatase gene expression during differentiation of mouse erythroleukemia cells. Furukawa T, et al. **Biochem Mol Biol Int** 1997 May;41(6):1161–70

Identification of a motif within the 5' regulatory region of pS2 which is responsible for AP-1 binding and TCDD-mediated suppression. Gillesby BE, et al. **Biochemistry** 1997 May 20;36(20):6080–9

Differential expression of ferritin heavy chain in a rat transitional cell carcinoma progression model. Vet JA, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):39–44

Altered myeloid development and acute leukemia in transgenic mice expressing PML-RAR alpha under control of cathepsin G regulatory sequences. Grisolano JL, et al. **Blood** 1997 Jan 15;89(2):376–87

Epstein-Barr virus latent gene expression in primary effusion lymphomas containing Kaposi's sarcoma-associated herpesvirus/human herpesvirus-8. Horenstein MG, et al. **Blood** 1997 Aug 1;90(3):1186–91

Negative regulation of the erythropoietin gene expression by the GATA transcription factors. Imagawa S, et al. **Blood** 1997 Feb 15;89(4):1430–9

Altered tumor growth and metastasis of a T-cell lymphoma in Timp-1 transgenic mice. Krüger A, et al. **Blood** 1997 Sep 1;90(5):1993–2000

Defects of the mismatch repair gene MSH2 are implicated in the development of murine and human lymphoblastic lymphomas and are associated with the aberrant expression of rhombotin-2 (Lmo-2) and Tal-1 (SCL). Lowsky R, et al. **Blood** 1997 Apr 1;89(7):2276–82

Human non-Hodgkin's lymphomas overexpress a wild-type form of p53 which is a functional transcriptional activator of the cyclin-dependent kinase inhibitor p21. Maestro R, et al. **Blood** 1997 Apr 1;89(7):2523–8

Deletions and loss of expression of p16INK4a and p21Waf1 genes are associated with aggressive variants of mantle cell lymphomas. Pinyol M, et al. **Blood** 1997 Jan 1;89(1):272–80

Different CD44 splicing patterns define prognostic subgroups in multiple myeloma. Stauder R, et al. **Blood** 1996 Oct 15; 88(8):3101–8

Relationship of p53, bcl-2, and tumor proliferation to clinical drug resistance in non-Hodgkin's lymphomas. Wilson WH, et al. **Blood** 1997 Jan 15;89(2):601–9

Endogenously produced nitric oxide increases tumor necrosis factor-alpha production in transfected human U937 cells. Yan L, et al. **Blood** 1997 Aug 1;90(3):1160–7

Differentiation inhibitory factor nm23 as a new prognostic factor in acute monocytic leukemia. Yokoyama A, et al. **Blood** 1996 Nov 1;88(9):3555–61

Expression of the multidrug resistance-associated protein gene in refractory lymphoma: quantitation by a validated polymerase chain reaction assay. Zhan Z, et al. **Blood** 1997 May 15;89(10):3795–800

Co-ordinate loss of protein kinase C and multidrug resistance gene expression in revertant MCF-7/Adr breast carcinoma cells. Budworth J, et al. **Br J Cancer** 1997;75(9):1330–5

Expression and hormone regulation of Wnt2, 3, 4, 5a, 7a, 7b and 10b in normal human endometrium and endometrial carcinoma. Bui TD, et al. **Br J Cancer** 1997;75(8):1131–6

Enhanced expression of urokinase plasminogen activator and its receptor in pancreatic carcinoma. Cantero D, et al. **Br J Cancer** 1997;75(3):388–95

Presence of exon 5-deleted oestrogen receptor in human breast cancer: functional analysis and clinical significance. Desai AJ, et al. **Br J Cancer** 1997;75(8):1173–84

Frequent reduction or loss of DCC gene expression in human osteosarcoma. Horstmann MA, et al. **Br J Cancer** 1997; 75(9):1309–17

The association between nm23 gene expression and survival in patients with sarcomas. Royds JA, et al. **Br J Cancer** 1997;75(8):1195–200

Decreasing p53 overexpression in sequential, recurrent, oral squamous cell carcinomas. Leung KW, et al. **Br J Oral Maxillofac Surg** 1996 Jun;34(3):225–9

Effects of short-term antiestrogen treatment of primary breast cancer on estrogen receptor mRNA and protein expression and on estrogen-regulated genes. McClelland RA, et al. **Breast Cancer Res Treat** 1996;41(1):31–41

Glutathione S-transferase-pi expression and glutathione concentration in ovarian carcinoma before and after chemotherapy. Cheng X, et al. **Cancer** 1997 Feb 1; 79(3):521–7

The prognostic application of cytokeratin typing of nonsmall cell lung carcinoma. A retrospective study. Cohen R, et al. **Cancer** 1997 Feb 1;79(3):468–73

Adenocarcinoma of the cervix. Expression and clinical significance of estrogen and progesterone receptors. Fujiwara H, et al. **Cancer** 1997 Feb 1;79(3):505–12

Expression of p21 (waf1/cip1/sdi1), but not p53 protein, is a factor in the survival of patients with advanced gastric carcinoma. Gomyo Y, et al. **Cancer** 1997 Jun 1; 79(11):2067–72

The prognostic significance of p53 and bcl-2 expression in lung adenocarcinoma and its correlation with Ki-67 growth fraction. Ishida H, et al. **Cancer** 1997 Sep 15; 80(6):1034–45

Coabnormal expression of cyclin D1 and p53 protein in human uterine endometrial carcinomas. Nikaido T, et al. **Cancer** 1996 Sep 15;78(6):1248–53

Molecular pathology of primary and metastatic ductal pancreatic lesions: analyses of mutations and expression of the p53, mdm-2, and p21/WAF-1 genes in sporadic and familial lesions. Ruggeri BA, et al. **Cancer** 1997 Feb 15; 79(4):700–16

Differential expression of apoptosis receptors on diffuse and intestinal type stomach carcinoma. Vollmers HP, et al. **Cancer** 1997 Feb 1;79(3):433–40

Activation of the K-ras oncogene in colorectal neoplasms is associated with decreased apoptosis. Ward RL, et al. **Cancer** 1997 Mar 15;79(6):1106–13

Overexpression of Glut1 and Glut3 in stage I nonsmall cell lung carcinoma is associated with poor survival. Younes M, et al. **Cancer** 1997 Sep 15;80(6):1046–51

Beta 4 integrin subunit expression is downregulated in low metastatic carcinoma variants. Cimino L, et al. **Cancer Detect Prev** 1997;21(2):158–66

Differential reduction in the expression of keratin polypeptides in human gastric carcinomas. Gupta A, et al. **Cancer Detect Prev** 1997;21(2):129–34

p53 alterations but no human papillomavirus infection in preinvasive and advanced squamous esophageal cancer in Italy. Rugge M, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar;6(3):171–6

The ribosomal 5.8S RNA as a target site for p53 protein in cell differentiation and oncogenesis. Abou Elela S, et al. **Cancer Lett** 1997 Jul 15;117(1):23–8

Differential production of interleukin-6 and its close relation to liver metastasis in clones from murine P815 mastocytoma. Hojo H, et al. **Cancer Lett** 1996 Nov 12; 108(1):55–9

Involvement of heat shock factor in regulating transcriptional activation of MDR1 gene in multidrug-resistant cells. Kim SH, et al. **Cancer Lett** 1997 May 1;115(1):9–14

A novel in vitro and in vivo breast cancer model for testing inhibitors of estrogen biosynthesis and its action using mammary tumor cells with an activated int-5/aromatase gene. Tekmal RR, et al. **Cancer Lett** 1997 Sep 16; 118(1):21–8

Cell cycle-dependent expression of TAP1, TAP2, and HLA-B27 messenger RNAs in a human breast cancer cell line. Alpan RS, et al. **Cancer Res** 1996 Oct 1;56(19):4358–61

Id genes encoding inhibitors of transcription are expressed during in vitro astrocyte differentiation and in cell lines derived from astrocytic tumors. Andres-Barquin PJ, et al. **Cancer Res** 1997 Jan 15;57(2):215–20

The different RET-activating capability of mutations of cysteine 620 or cysteine 634 correlates with the multiple endocrine neoplasia type 2 disease phenotype. Carlomagno F, et al. **Cancer Res** 1997 Feb 1;57(3):391–5

Compartment switching of WNT-2 expression in human breast tumors. Dale TC, et al. **Cancer Res** 1996 Oct 1; 56(19):4320–3

Down-regulation of the KAI1 metastasis suppressor gene during the progression of human prostatic cancer infrequently involves gene mutation or allelic loss. Dong JT, et al. **Cancer Res** 1996 Oct 1;56(19):4387–90

Ganglioside biosynthetic gene expression in experimental mouse brain tumors. Ecsedy JA, et al. **Cancer Res** 1997 Apr 15;57(8):1580–3

High-level expression of the retinoic acid receptor beta gene in normal cells of the uterine cervix is regulated by the retinoic acid receptor alpha and is abnormally down-regulated in cervical carcinoma cells. Geisen C, et al. **Cancer Res** 1997 Apr 15;57(8):1460–7

P-selectin expression in a metastatic pancreatic tumor cell line (SUIT-2). Iwamura T, et al. **Cancer Res** 1997 Mar 15;57(6):1206–12

Expression and transcriptional regulation of the PD-Ialpha/autotaxin gene in neuroblastoma. Kawagoe H, et al. **Cancer Res** 1997 Jun 15;57(12):2516–21

Enhanced coexpression of thioredoxin and high mobility group protein 1 genes in human hepatocellular carcinoma and the possible association with decreased sensitivity to cisplatin. Kawahara N, et al. **Cancer Res** 1996 Dec 1; 56(23):5330–3

Selective expression of one c-myc allele in two human myeloma cell lines. Kuehl WM, et al. **Cancer Res** 1996 Oct 1;56(19):4370–3

Expression of oligodendrocytic mRNAs in glial tumors: changes associated with tumor grade and extent of neoplastic infiltration. Landry CF, et al. **Cancer Res** 1997 Sep 15;57(18):4098–104

Expression of transduced carcinoembryonic antigen gene in human rhabdomyosarcoma inhibits metastasis. Landuzzi L, et al. **Cancer Res** 1996 Oct 1;56(19):4503–8

Inhibition of melanoma-associated antigen expression and ecotropic retrovirus production in B16BL6 melanoma cells transfected with major histocompatibility complex class I genes. Li M, et al. **Cancer Res** 1996 Oct 1;56(19):4464–74

Disrupted IGF2 promoter control by silencing of promoter P1 in human hepatocellular carcinoma. Li X, et al. **Cancer Res** 1997 May 15;57(10):2048–54

Expression of a translationally regulated, dominant-negative CCAAT/enhancer-binding protein beta isoform and up-regulation of the eukaryotic translation initiation factor 2alpha are correlated with neoplastic transformation of mammary epithelial cells. Raught B, et al. **Cancer Res** 1996 Oct 1;56(19):4382–6

Transcription of cyclooxygenase-2 is enhanced in transformed mammary epithelial cells. Subbaramaiah K, et al. **Cancer Res** 1996 Oct 1;56(19):4424–9

Overexpression of the c-erbB-2 gene enhanced intrinsic metastasis potential in human breast cancer cells without increasing their transformation abilities. Tan M, et al. **Cancer Res** 1997 Mar 15;57(6):1199–205

Cell cycle control of BRCA2. Vaughn JP, et al. **Cancer Res** 1996 Oct 15;56(20):4590–4

Down-regulation of prostate-specific antigen expression by finasteride through inhibition of complex formation between androgen receptor and steroid receptor-binding consensus in the promoter of the PSA gene in LNCaP cells. Wang LG, et al. **Cancer Res** 1997 Feb 15;57(4):714–9

Expression of MCAM/MUC18 by human melanoma cells leads to increased tumor growth and metastasis. Xie S, et al. **Cancer Res** 1997 Jun 1;57(11):2295–303

Deletion and differential expression of p16INK4a in mouse lung tumors. Belinsky SA, et al. **Carcinogenesis** 1997 Jan; 18(1):115–20

Oral contraceptives, reproductive factors and p53 gene expression in colorectal cancer. Freedman AN, et al. **Carcinogenesis** 1997 Apr;18(4):855–6

Two promoters in expression of estrogen receptor messenger RNA in human breast cancer. Hayashi S, et al. **Carcinogenesis** 1997 Mar;18(3):459–64

Induction of apoptosis but not G1 arrest by expression of the wild-type p53 gene in small cell lung carcinoma. Adachi J, et al. **Cell Growth Differ** 1996 Jul;7(7):879–86

The 3' untranslated region of the carcinoembryonic antigen gene plays a minimal role in the regulation of gene expression. Bordonaro M, et al. **Cell Growth Differ** 1997 Mar;8(3):353–60

Action of Min and Mom1 on neoplasia in ectopic intestinal grafts. Gould KA, et al. **Cell Growth Differ** 1996 Oct; 7(10):1361–8

Gap junction genes Cx26 and Cx43 individually suppress the cancer phenotype of human mammary carcinoma cells and restore differentiation potential. Hirschi KK, et al. **Cell Growth Differ** 1996 Jul;7(7):861–70

Aberrant expression of cyclin D2 is an early event in human male germ cell tumorigenesis. Houldsworth J, et al. **Cell Growth Differ** 1997 Mar;8(3):293–9

Prohibitin in breast cancer cell lines: loss of antiproliferative activity is linked to 3' untranslated region mutations. Jupe ER, et al. **Cell Growth Differ** 1996 Jul;7(7):871–8

Sensitivity to transforming growth factor beta 1-induced growth arrest is common in human squamous cell carcinoma cell lines: c-MYC down-regulation and p21waf1 induction are important early events. Malliri A, et al. **Cell Growth Differ** 1996 Oct;7(10):1291–304

Transfection of rhabdomyosarcoma cells with connexin43 induces myogenic differentiation. Proulx AA, et al. **Cell Growth Differ** 1997 May;8(5):533–40

Decreased tumorigenicity of a human colon adenocarcinoma cell line by an antisense expression vector specific for c-Src. Staley CA, et al. **Cell Growth Differ** 1997 Mar; 8(3):269–74

Suppression of tumorigenicity in Ras-transformed fibroblasts by alpha 2(I) collagen. Travers H, et al. **Cell Growth Differ** 1996 Oct;7(10):1353–60

Elevated levels of ERK2 in human breast carcinoma MCF-7 cells transfected with protein kinase C alpha. Gupta AK, et al. **Cell Prolif** 1996 Dec;29(12):655–63

pp32 overexpression induces nuclear pleomorphism in rat prostatic carcinoma cells. Gusev Y, et al. **Cell Prolif** 1996 Dec;29(12):643–53

Immortal, non-tumourigenic mouse mammary outgrowths express high levels of cyclin B1 and activation of cyclin B1/cdc2 kinase. Said TK, et al. **Cell Prolif** 1996 Nov; 29(11):623–39

Established cell lines transformed by E2F-1 overexpression contain wild-type p53. Sladek TL. **Cell Prolif** 1996 Nov; 29(11):579–88

Morphological patterns and DNA polymerase regulation in apoptotic HL60 cells. Falcieri E, et al. **Cell Struct Funct** 1996 Jun;21(3):213–20

Differential and constitutive expression of the DRB1 and DRA gene products controls the surface HLA-DR expression level in human eosinophilic leukaemia cell lines. Nakatsuji T. **Cell Struct Funct** 1997 Feb;22(1):15–20

Overexpression of c-myc gene without gene amplification in human hepatocellular carcinoma. Wu B, et al. **Chin Med J (Engl)** 1996 Dec;109(12):922–5

Modulation of N-myc expression alters the invasiveness of neuroblastoma. Goodman LA, et al. **Clin Exp Metastasis** 1997 Mar;15(2):130–9

An examination of the effects of hypoxia, acidosis, and glucose starvation on the expression of metastasis-associated genes in murine tumor cells. Jang A, et al. **Clin Exp Metastasis** 1997 Sep;15(5):469–83

Indirect and direct disruption of transcriptional regulation in cancer: E2F and AML-1. Meyers S, et al. **Crit Rev Eukaryot Gene Expr** 1995;5(3–4):365–83 (161 ref.)

A new transcription factor family associated with human leukemias. Speck NA, et al. **Crit Rev Eukaryot Gene Expr** 1995;5(3–4):337–64 (169 ref.)

Expression of ras proto-oncogenes: regulation and implications in the development of human tumors. Zachos G, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):65–75 (92 ref.)

Carcinogenesis: a balance between beta-catenin and APC.

Gumbiner BM. **Curr Biol** 1997 Jul 1;7(7):R443–6 (26 ref.)
The function of BCR/ABL and related proto–oncogenes. Gotoh A, et al. **Curr Opin Hematol** 1997 Jan;4(1):3–11 (98 ref.)
Differential gene expression in tumor metastasis: Nm23. Freije JM, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):215–32 (62 ref.)
NM23/Nucleoside diphosphate kinase as a transcriptional activator of c–myc. Postel EH. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):233–52 (96 ref.)
TLS–CHOP and the role of RNA–binding proteins in oncogenic transformation. Ron D. **Curr Top Microbiol Immunol** 1997;220:131–42 (53 ref.)
Regulation of autocrine motility factor receptor expression in tumor cell locomotion and metastasis. Silletti S, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):137–69 (153 ref.)
Lack of expression of dopamine D2 receptors in malignant melanoma: evidence for interaction of iodobenzofurans with melanin. Böni R, et al. **Dermatology** 1996; 193(3):198–202
Activation of TRK genes in Ewing's sarcoma. Trk A receptor expression linked to neural differentiation. Nogueira E, et al. **Diagn Mol Pathol** 1997 Feb;6(1):10–6
Correlative immunohistochemistry and molecular genetic study of the inactivation of the p16INK4A genes in astrocytomas. Rao LS, et al. **Diagn Mol Pathol** 1997 Apr; 6(2):115–22
Coexpression of Bcl–2, c–Myc, and p53 oncoproteins as prognostic discriminants in patients with colorectal carcinoma. Bhatavdekar JM, et al. **Dis Colon Rectum** 1997 Jul;40(7):785–90
Androgen induces ornithine decarboxylase gene expression in colonic cell line HT–29. Cintron JR, et al. **Dis Colon Rectum** 1996 Apr;39(4):406–9
PCR–mediated differential display and cloning of a melanocyte gene decreased in malignant melanoma and up–regulated with sensitization to DNA damage. Gomez LA, et al. **DNA Cell Biol** 1996 May;15(5):423–7
Identification of a specific DNA region required for enhanced transcription of HER2/neu in the MDA–MB453 breast cancer cell line. Miller SJ, et al. **DNA Cell Biol** 1996 Sep;15(9):749–57
Transcriptionally active haptoglobin–related (Hpr) gene in hepatoma G2 and leukemia molt–4 cells. Tabak S, et al. **DNA Cell Biol** 1996 Nov;15(11):1001–7
A novel p53–inducible gene, PAG608, encodes a nuclear zinc finger protein whose overexpression promotes apoptosis. Israeli D, et al. **EMBO J** 1997 Jul 16;16(14):4384–92
Overexpression of glutathione S–transferase pi messenger RNA and its relationship to gene amplification in head and neck squamous cell carcinoma. Pavelic ZP, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S144–6
Expression of neural BC1 RNA: induction in murine tumours. Chen W, et al. **Eur J Cancer** 1997 Feb;33(2):288–92
Correlation between P450 CYP1A1 inducibility, MspI genotype and lung cancer incidence. Jacquet M, et al. **Eur J Cancer** 1996 Sep;32A(10):1701–6
Expression of c–erbB–2 protein in keratinocytes of oral mucosal lichen planus and subsequent squamous cell carcinoma. Kilpi A, et al. **Eur J Oral Sci** 1996 Jun; 104(3):278–84
Ras p21 protein immunoreactivity and its relationship to p53 expression and prognosis in gallbladder and extrahepatic biliary carcinoma. Lee CS. **Eur J Surg Oncol** 1997 Jun; 23(3):233–7
ICAM–1 expression by lung cancer cell lines: effects of upregulation by cytokines on the interaction with LAK cells. Melis M, et al. **Eur Respir J** 1996 Sep;9(9):1831–8
Expression of the SPRR cornification genes is differentially affected by carcinogenic transformation. Lohman FP, et al. **Exp Cell Res** 1997 Feb 25;231(1):141–8
Modulation of alpha 6/beta 1 integrin expression during differentiation of F9 murine embryonal carcinoma cells to parietal endoderm. Morini M, et al. **Exp Cell Res** 1997 May 1;232(2):304–12
Sphingosine induces apoptosis in androgen–independent human prostatic carcinoma DU–145 cells by suppression of bcl–X(L) gene expression. Shirahama T, et al. **FEBS Lett** 1997 Apr 21;407(1):97–100
Second messenger up–regulation of androgen receptor gene transcription is absent in androgen insensitive human prostatic carcinoma cell lines, PC–3 and DU–145. Stubbs AP, et al. **FEBS Lett** 1996 Apr 1;383(3):237–40
nmd, a novel gene differentially expressed in human melanoma cell lines, encodes a new atypical member of the enzyme family of lipases. van Groningen JJ, et al. **FEBS Lett** 1997 Mar 3;404(1):82–6
Specific rejection immunity against src Oncogene–induced tumours and involvement of the major histocompatibility complex. Svoboda J, et al. **Folia Biol (Praha)** 1996; 42(1–2):41–5
Cis–acting elements required for expression of the nonspecific cross–reacting antigen gene in colorectal carcinoma. Jones DV Jr, et al. **Gastroenterology** 1997 Mar;112(3):776–82
Characterization of a tumor–associated gene, a member of a novel family of genes encoding membrane glycoproteins. Ben–Porath I, et al. **Gene** 1996 Dec 12;183(1–2):69–75
Suicide gene expression induced in tumour cells transduced with recombinant adenoviral, retroviral and plasmid vectors containing the ERBB2 promoter. Ring CJ, et al. **Gene Ther** 1996 Dec;3(12):1094–103
Cooperating oncogenes converge to regulate cyclin/cdk complexes. Lloyd AC, et al. **Genes Dev** 1997 Mar 1; 11(5):663–77
Mom1 is a semi–dominant modifier of intestinal adenoma size and multiplicity in Min/+ mice. Gould KA, et al. **Genetics** 1996 Dec;144(4):1769–76
Prognostic significance of p53 expression in ovarian granulosa cell tumors. Ala–Fossi SL, et al. **Gynecol Oncol** 1997 Sep;66(3):475–9
Expression of epidermal growth factor and androgen receptors in ovarian cancer. Ilekis JV, et al. **Gynecol Oncol** 1997 Aug;66(2):250–4
Pregnancy associated with colon carcinoma overexpressing p53. Rojansky N, et al. **Gynecol Oncol** 1997 Mar; 64(3):516–20
Expression of the farnesyltransferase beta–subunit gene in human ovarian carcinoma: correlation to K–ras mutation. Tanimoto H, et al. **Gynecol Oncol** 1997 Aug;66(2):308–12
Overexpression of cyclin D1 in epithelial ovarian cancers [see comments] Worsley SD, et al. **Gynecol Oncol** 1997 Feb;64(2):189–95. Comment in: Gynecol Oncol 1997 Feb;64(2):187–8.
Apoptotic index in ovarian carcinoma: correlation with clinicopathologic factors and prognosis. Yamasaki F, et al. **Gynecol Oncol** 1997 Sep;66(3):439–48
Establishment and characterization of human ovarian carcinoma cell lines. Yuan Y, et al. **Gynecol Oncol** 1997 Sep;66(3):378–87
c–Jun and GST–pi expression in human plasma cells. Di Simone D, et al. **Haematologica** 1997 Jan–Feb;82(1):69–70
Expression of the transcription factor Evi–1 in human erythroleukemia cell lines and in leukemias. Fontenay–Roupie M, et al. **Hematol Cell Ther** 1997 Feb; 39(1):5–10
Overexpression of p53 is associated with growth pattern and prognosis in advanced gastric cancer. Ichiyoshi Y, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):546–53
Relationship of p53 and c–erbB–2 expression to histopathological features, Helicobacter pylori infection and prognosis in gastric cancer. Shun CT, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):604–9
Expression of metastasis suppressor gene product, nm23 protein, is not inversely correlated with the tumour progression in human malignant melanomas. Saitoh K, et al. **Histopathology** 1996 Dec;29(6):497–505
Transfection and expression of MnSOD cDNA decreases tumor malignancy of human oral squamous carcinoma SCC–25 cells. Liu R, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):585–95
Significance of the expression of proliferation–associated nucleolar antigen p120 in human colorectal tumors. Ueki T, et al. **Hum Pathol** 1997 Jan;28(1):74–9
Co–expression and secretion of C3, the third component of complement and a C3–cleaving cysteine proteinase in a highly metastatic human melanoma cell line. Jean D, et al. **Immunol Lett** 1997 Jul;58(2):107–12
Impairment of Fas–antigen expression in adriamycin–resistant but not TNF–resistant MCF7 tumor cells. Cai Z, et al. **Int J Cancer** 1996 Nov 15;68(4):535–46
Translation initiation factor eIF–4A1 mRNA is consistently overexpressed in human melanoma cells in vitro. Eberle J, et al. **Int J Cancer** 1997 May 2;71(3):396–401
Dysregulated expression of transforming growth factor beta and its type–I and type–II receptors in basal–cell carcinoma. Furue M, et al. **Int J Cancer** 1997 May 16; 71(4):505–9
Molecular analysis of the cyclin–dependent kinase inhibitor genes p15INK4b/MTS2, p16INK4/MTS1, p18 and p19 in human cancer cell lines. Gemma A, et al. **Int J Cancer** 1996 Nov 27;68(5):605–11
Down–regulation of protein and mRNA expression for transforming growth factor–beta (TGF–beta1) type I and type II receptors in human prostate cancer. Guo Y, et al. **Int J Cancer** 1997 May 16;71(4):573–9
Altered mRNA expression of specific molecular species of fucosyl– and sialyl–transferases in human colorectal cancer tissues. Ito H, et al. **Int J Cancer** 1997 May 16;71(4):556–64
Differential expression of the neuroendocrine genes Hel–N1 and HuD in small–cell lung carcinoma: evidence for down–regulation of HuD in the variant phenotype. King PH. **Int J Cancer** 1997 Aug 22;74(4):378–82
Molecular cloning, sequencing and expression of the mRNA encoding human Cdx1 and Cdx2 homeobox. Down–regulation of Cdx1 and Cdx2 mRNA expression during colorectal carcinogenesis. Mallo GV, et al. **Int J Cancer** 1997 Feb 20;74(1):35–44
Reduced folate carrier gene (RFC1) expression and anti–folate resistance in transfected and non–selected cell lines. Moscow JA, et al. **Int J Cancer** 1997 Jul 3; 72(1):184–90
Methylated CpG points identified within MAGE–1 promoter are involved in gene repression. Serrano A, et al. **Int J Cancer** 1996 Nov 15;68(4):464–70
Molecular basis for lack of expression of HLA class I antigens in human small–cell lung carcinoma cell lines. Singal DP, et al. **Int J Cancer** 1996 Nov 27;68(5):629–36
Correlation of repressed transcription of alpha–tocopherol transfer protein with serum alpha–tocopherol during hepatocarcinogenesis. Wu CG, et al. **Int J Cancer** 1997 May 16;71(4):686–90
Expression of alpha and beta genes of human chorionic gonadotropin in lung cancer. Yokotani T, et al. **Int J Cancer** 1997 May 16;71(4):539–44
Interleukin–6 gene expression is preferentially restricted in VLA–5–MPC–1– immature but not in VLA–5+MPC–1+ mature myeloma cells. Mihara K. **Int J Hematol** 1996 Apr; 63(3):215–26
Expression of GATA transcription factors in myelogenous and lymphoblastic leukemia cells. Minegishi N, et al. **Int J Hematol** 1997 Apr;65(3):239–49
Down–regulated expression of CD44 variant 6 in oral squamous cell carcinomas and its relationship to regional lymph node metastasis. Kunishi M, et al. **Int J Oral Maxillofac Surg** 1997 Aug;26(4):280–3
Oncogenic forms of NOTCH1 lacking either the primary binding site for RBP–Jkappa or nuclear localization sequences retain the ability to associate with RBP–Jkappa and activate transcription. Aster JC, et al. **J Biol Chem** 1997 Apr 25;272(17):11336–43
Activation of transcription of the melanoma inducing Xmrk oncogene by a GC box element [published erratum appears in J Biol Chem 1997 Mar 14;272(11):7565] Baudler M, et al. **J Biol Chem** 1997 Jan 3;272(1):131–7
Involvement of co–activator p300 in the transcriptional regulation of the HER–2/neu gene. Chen H, et al. **J Biol Chem** 1997 Mar 7;272(10):6101–4
CREB proteins function as positive regulators of the translocated bcl–2 allele in t(14;18) lymphomas. Ji L, et al. **J Biol Chem** 1996 Sep 13;271(37):22687–91
Mechanism of E1A–induced transforming growth factor–beta (TGF–beta) resistance in mouse keratinocytes involves repression of TGF–beta type II receptor transcription. Kim DH, et al. **J Biol Chem** 1997 Jan 3; 272(1):688–94
Misregulation of stromelysin–1 expression in mouse mammary tumor cells accompanies acquisition of stromelysin–1–dependent invasive properties. Lochter A, et al. **J Biol Chem** 1997 Feb 21;272(8):5007–15
Transcriptional repression of p53 promoter by hepatitis C virus core protein. Ray RB, et al. **J Biol Chem** 1997 Apr 25;272(17):10983–6
The redistribution of cortactin into cell–matrix contact sites in human carcinoma cells with 11q13 amplification is associated with both overexpression and post–translational modification. van Damme H, et al. **J Biol Chem** 1997 Mar 14;272(11):7374–80
Fas–induced changes in cdc2 and cdk2 kinase activity are not sufficient for triggering apoptosis in HUT–78 cells. De Luca A, et al. **J Cell Biochem** 1997 Mar 15;64(4):579–85
Fas stimulation induces RB dephosphorylation and proteolysis that is blocked by inhibitors of the ICE protease family. Dou QP, et al. **J Cell Biochem** 1997 Mar 15; 64(4):586–94
Regulation of urokinase–type plasminogen activator expression by an ERK1–dependent signaling pathway in a squamous cell carcinoma cell line. Lengyel E, et al. **J Cell Biochem** 1996 Jun 1;61(3):430–43
Cadherin/catenin complex: a target for antiinvasive therapy? Mareel M, et al. **J Cell Biochem** 1996 Jun 15;61(4):524–30 (39 ref.)
Involvement of DNA methylation in the control of the expression of an estrogen–induced breast–cancer–associated protein (pS2) in human breast cancers. Martin V, et al. **J Cell Biochem** 1997 Apr; 65(1):95–106
Mdm–2: "big brother" of p53. Momand J, et al. **J Cell Biochem** 1997 Mar 1;64(3):343–52 (98 ref.)
Expression of cellular genes in HPV16–immortalized and cigarette smoke condensate–transformed human endocervical cells. Yang X, et al. **J Cell Biochem** 1997 Sep 1;66(3):309–21
Regulation of nuclear oncogenes expressed in lung cancer cell lines. Sabichi AL, et al. **J Cell Biochem Suppl** 1996; 24:218–27 (31 ref.)
Expression in human lung cancer cell lines of genes of prohormone processing and the neuroendocrine phenotype. Vos MD, et al. **J Cell Biochem Suppl** 1996;24:257–68
Contrasting effects of K8 and K18 on stabilizing K19 expression, cell motility and tumorigenicity in the BSp73 adenocarcinoma. Pankov R, et al. **J Cell Sci** 1997 Apr;110 (Pt 8):965–74
Capillary electrophoresis methodology for identification of cancer related gene expression patterns of fluorescent differential display polymerase chain reaction. George KS, et al. **J Chromatogr B Biomed Appl** 1997 Jul 18; 695(1):93–102
Drug–induced apoptosis in hepatoma cells is mediated by the CD95 (APO–1/Fas) receptor/ligand system and involves activation of wild–type p53. Müller M, et al. **J Clin Invest** 1997 Feb 1;99(3):403–13
Modulation of gene expression in subjects at risk for colorectal cancer by the chemopreventive dithiolethione oltipraz. O'Dwyer PJ, et al. **J Clin Invest** 1996 Sep 1; 98(5):1210–7
p53 expression and cell proliferation as prognostic factors in laryngeal squamous cell carcinoma. Hirvikoski P, et al. **J Clin Oncol** 1997 Sep;15(9):3111–20
Correlation between thymidine phosphorylase expression and prognosis in human renal cell carcinoma. Imazano Y, et al. **J Clin Oncol** 1997 Jul;15(7):2570–8
Expression of carbohydrate antigen sialyl Le(a): a new functional prognostic factor in gastric cancer. Nakamori S, et al. **J Clin Oncol** 1997 Feb;15(2):816–25

Correlation between expression of vascular endothelial growth factor and tumor vascularity, and patient outcome in human gastric carcinoma. Tanigawa N, et al. **J Clin Oncol** 1997 Feb;15(2):826–32

Expression of E-cadherin in oesophageal carcinomas from the UK and China: disparities in prognostic significance. Jian WG, et al. **J Clin Pathol** 1997 Aug;50(8):640–4

Overexpression of the cyclin-dependent kinase inhibitor p21(WAF1/CIP1) in human cutaneous malignant melanoma. Trotter MJ, et al. **J Cutan Pathol** 1997 May; 24(5):265–71

Expression of interleukin-1 in human pheochromocytoma. Bornstein SR, et al. **J Endocrinol Invest** 1996 Nov; 19(10):693–8

Construction of retroviral vectors to induce strong hepatoma cell-specific expression of cytokine genes. Cao G, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1053–61

Expression ratio of hepatocyte nuclear factor-1 to variant hepatocyte nuclear factor-1 in differentiation of hepatocellular carcinoma and hepatoblastoma. Ninomiya T, et al. **J Hepatol** 1996 Oct;25(4):445–53

Growth regulatory pathways in myeloma. Evidence for autocrine oncostatin M expression. Westendorf JJ, et al. **J Immunol** 1996 Oct 1;157(7):3081–8

Correlation of interleukin-6 gene expression to immunologic features in patients with cardiac myxomas. Parissis JT, et al. **J Interferon Cytokine Res** 1996 Aug;16(8):589–93

Expression of p53 and NDP-K/nm23 in gastric carcinomas--association with metastasis and clinicopathologic parameters. Kim KM, et al. **J Korean Med Sci** 1995 Dec;10(6):406–13

Enhanced expression of cathepsin L in metastatic bone tumors. Park IC, et al. **J Korean Med Sci** 1996 Apr; 11(2):144–8

Regulation of Bcl-2 gene expression by BCR-ABL is mediated by Ras. Sánchez-García I, et al. **J Mol Biol** 1997 Mar 28;267(2):225–8

c-fos mRNA and FOS protein expression is induced by Ca2+ influx in GH3B6 pituitary cells. Li SL, et al. **J Mol Endocrinol** 1996 Jun;16(3):229–38

The ARP-1 orphan receptor represses steroid-mediated stimulation of human placental lactogen gene expression. Stephanou A, et al. **J Mol Endocrinol** 1996 Jun;16(3):221–7

Regulation of insulin-like growth factor I receptor gene expression by the Wilms' tumor suppressor WT1. Werner H, et al. **J Mol Neurosci** 1996 Summer;7(2):111–23

DR-nm23 gene expression in neuroblastoma cells: relationship to integrin expression, adhesion characteristics, and differentiation. Amendola R, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1300–10

Time for integration of predictive factors for selection of breast cancer patients who need postoperative radiation therapy? [editorial; comment] Bergh J. **J Natl Cancer Inst** 1997 May 7;89(9):605–7 (31 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):639–45.

Abrogation of cisplatin-induced programmed cell death in human breast cancer cells by epidermal growth factor antisense RNA [see comments] Dixit M, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):365–73. Comment in: J Natl Cancer Inst 1997 Mar 5;89(5):341–3.

Cumulative prognostic value of p16/CDKN2 and p53 oncoprotein expression in premalignant laryngeal lesions. Gallo O, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1161–3

Characterization of p53 and p21 functional interactions in glioma cells en route to apoptosis. Gomez-Manzano C, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1036–44

p53 status and prognosis of locally advanced prostatic adenocarcinoma: a study based on RTOG 8610. Grignon DJ, et al. **J Natl Cancer Inst** 1997 Jan 15;89(2):158–65

Thrombospondin-1 expression in bladder cancer: association with p53 alterations, tumor angiogenesis, and tumor progression. Grossfeld GD, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):219–27

Expression of epidermal growth factor receptor and human papillomavirus E6/E7 proteins in cervical carcinoma cells [see comments] Hu G, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1271–6. Comment in: J Natl Cancer Inst 1997 Sep 3;89(17):1243–6.

Thymidylate synthase expression and response to neoadjuvant chemotherapy in patients with advanced head and neck cancer. Johnston PG, et al. **J Natl Cancer Inst** 1997 Feb 19;89(4):308–13

Effect of canarypox virus (ALVAC)-mediated cytokine expression on murine prostate tumor growth [see comments] Kawakita M, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):428–36. Comment in: J Natl Cancer Inst 1997 Mar 19;89(6):408–9.

Epidermal growth factor receptor family and chemosensitization [editorial; comment] Mendelsohn J, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):341–3 (45 ref.). Comment on: J Natl Cancer Inst 1997 Mar 5;89(5):365–73.

Retinoic acid receptor expression abnormalities in lung cancer: important clues or major obstacles? [editorial; comment] Minna JD, et al. **J Natl Cancer Inst** 1997 May 7;89(9):602–4 (42 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):624–9.

Low frequency of ErbB-2 proto-oncogene overexpression in human leukocyte antigen-A2-positive breast cancer patients. Nisticò P, et al. **J Natl Cancer Inst** 1997 Feb 19; 89(4):319–21

Correlation of vascular endothelial growth factor expression and microvessel density in cervical intraepithelial neoplasia. Obermair A, et al. **J Natl Cancer Inst** 1997 Aug 20; 89(16):1212–7

Re: Bcl-2 Overexpression and smoking history in head and neck cancer [letter; comment] Ogden GR. **J Natl Cancer Inst** 1996 Dec 18;88(24):1864–6. Comment on: J Natl Cancer Inst 1995 Jul 5;87(13):1024–5.

Malignant origin of the stromal component of Wilms' tumor [editorial; comment] Pritchard-Jones K. **J Natl Cancer Inst** 1997 Aug 6;89(15):1089–91. Comment on: J Natl Cancer Inst 1997 Aug 6;89(15):1148–52.

Promise and problems of Bcl-2 antisense therapy [editorial; comment] Reed JC. **J Natl Cancer Inst** 1997 Jul 16; 89(14):988–90 (36 ref.). Comment on: J Natl Cancer Inst 1997 Jul 16;89(14):1027–36.

Relationship between lifetime ovulatory cycles and overexpression of mutant p53 in epithelial ovarian cancer [see comments] Schildkraut JM, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):932–8. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):906–7.

Expression of p53, glutathione S-transferase-pi, and Bcl-2 proteins and benefit from adjuvant radiotherapy in breast cancer [see comments] Silvestrini R, et al. **J Natl Cancer Inst** 1997 May 7;89(9):639–45. Comment in: J Natl Cancer Inst 1997 May 7;89(9):605–7.

Suppression of retinoic acid receptor beta in non-small-cell lung cancer in vivo: implications for lung cancer development [see comments] Xu XC, et al. **J Natl Cancer Inst** 1997 May 7;89(9):624–9. Comment in: J Natl Cancer Inst 1997 May 7;89(9):602–4.

Identical genetic changes in different histologic components of Wilms' tumors [see comments] Zhuang Z, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1148–52. Comment in: J Natl Cancer Inst 1997 Aug 6;89(15):1089–91.

Tissue-specific expression of the vasoactive intestinal peptide gene requires both an upstream tissue specifier element and the 5'proximal cyclic AMP-responsive element. Hahm SH, et al. **J Neurochem** 1996 Nov;67(5):1872–81

Overexpression of Ca2+/calmodulin-dependent protein kinase II in PC12 cells alters cell growth, morphology, and nerve growth factor-induced differentiation. Massé T, et al. **J Neurosci** 1997 Feb 1;17(3):924–31

The molecular biology of oral carcinogenesis: toward a tumor progression model. Todd R, et al. **J Oral Maxillofac Surg** 1997 Jun;55(6):613–23; discussion 623–5 (96 ref.)

Features of odontogenesis and expression of cytokeratins and tenascin-C in three cases of extraosseous and intraosseous calcifying odontogenic cyst. Lukinmaa PL, et al. **J Oral Pathol Med** 1997 Jul;26(6):265–72

Inverse expression of mdr 1 and c-myc genes in a rhabdomyosarcoma cell line resistant to actinomycin d. Prados J, et al. **J Pathol** 1996 Sep;180(1):85–9

Biology and genetics of human neuroblastomas. Brodeur GM, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr; 19(2):93–101 (105 ref.)

Epidermal growth factor and transforming growth factor alpha mRNA expression in human breast cancer biopsies; analysis in relation to estradiol, progesterone and EGF receptor content. Artagaveytia N, et al. **J Steroid Biochem Mol Biol** 1997 Feb;60(3-4):221–8

Intermittent androgen suppression delays progression to androgen-independent regulation of prostate-specific antigen gene in the LNCaP prostate tumour model. Sato N, et al. **J Steroid Biochem Mol Biol** 1996 May;58(2):139–46

Interaction between estradiol and growth factors in the regulation of specific gene expression in MCF-7 human breast cancer cells. El-Tanani MK, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5-6):269–76

Increased estrogen receptor and epidermal growth factor receptor gene product co-expression in surgically resected gastric adenocarcinomas. Koullias GJ, et al. **J Surg Oncol** 1996 Nov;63(3):166–71

Correlated flow cytometric analysis of H-ras p21 and DNA ploidy in acute myelogenous leukemia. Lin F, et al. **J Tongji Med Univ** 1996;16(2):75–7

Apoptosis in transitional cell carcinoma of the renal pelvis and ureter: association with proliferative activity, bcl-2 expression and prognosis. Masuda M, et al. **J Urol** 1997 Sep;158(3 Pt 1):750–3

Strong correlation of basement membrane degradation with p53 inactivation and/or MDM2 overexpression in superficial urothelial carcinomas. Ozdemir E, et al. **J Urol** 1997 Jul;158(1):206–11

Regulation of vimentin expression and protease-mediated vimentin degradation during differentiation of human monocytic leukemia cells. Honke K, et al. **Jpn J Cancer Res** 1997 May;88(5):484–91

Inactivation of the E-cadherin gene in primary gastric carcinomas and gastric carcinoma cell lines. Tamura G, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1153–9

Modulation of alpha 4 beta 1 and alpha 5 beta 1 integrin expression: heterogeneous effects of Q-switched ruby, Nd:YAG, and alexandrite lasers on melanoma cells in vitro. van Leeuwen RL, et al. **Lasers Surg Med** 1996;18(1):63–71

Inactivation of the p15INK4B and p16INK4 genes in hematologic malignancies. Heyman M, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):235–45 (161 ref.)

DNA methylation and developmental genes in lymphomagenesis--more questions than answers? Kay PH, et al. **Leuk Lymphoma** 1997 Jan;24(3-4):211–20 (58 ref.)

Mitotic activity and nuclear DNA damage of large cells in Hodgkin's disease: comparison with the expression of p53 and bcl-2 proteins and the presence of Epstein-Barr virus. Leoncini L, et al. **Leuk Lymphoma** 1997 Mar; 25(1-2):153–61

Disease progression in patients with multiple myeloma is associated with a concurrent alteration in the expression of both oncogenes and tumour suppressor genes and can be monitored by the oncoprotein phenotype. Pope B, et al. **Leuk Lymphoma** 1997 May;25(5-6):545–54

Overexpression of the MDM2 oncogene in leukemia and lymphoma. Watanabe T, et al. **Leuk Lymphoma** 1996 May; 21(5-6):391–7, color plates XVI following 5 (49 ref.)

Expression of the MDR1 and MDR3 gene products in acute and chronic leukemias. Arai Y, et al. **Leuk Res** 1997 Apr; 21(4):313–9

Expression of tie receptor tyrosine kinase in human leukemia cell lines. Bredoux C, et al. **Leuk Res** 1997 Jul;21(7):595–601

Cytokines, molecular biological abnormalities, and acute myelogenous leukemia. Preisler HD, et al. **Leuk Res** 1997 Apr;21(4):299–312 (121 ref.)

Up-regulation of cell cycle-associated genes by p53 in apoptosis of an erythroleukemic cell line. Kato MV, et al. **Leukemia** 1997 Apr;11 Suppl 3:389–92

Transfected glucocorticoid receptor and certain GR fragments evoke cell death in malignant lymphoid, not myeloid cell lines. Nazareth LV, et al. **Leukemia** 1996 Nov; 10(11):1789–95

Regulation of BCL-6 gene expression in human myeloid/monocytoid leukemic cells. Yamochi T, et al. **Leukemia** 1997 May;11(5):694–700

The control of gene expression in melanocytes and melanomas. Eisen TG. **Melanoma Res** 1996 Aug; 6(4):277–84 (36 ref.)

Cyclin D1 gene expression in human cervical neoplasia. Nichols GE, et al. **Mod Pathol** 1996 Apr;9(4):418–25

Kinetics of wound-induced v-Ha-ras transgene expression and papilloma development in transgenic Tg.AC mice. Cannon RE, et al. **Mol Carcinog** 1997 Sep;20(1):108–14

Functional characterization in vivo of mutant p53 molecules derived from squamous cell carcinomas of the head and neck. Cardinali M, et al. **Mol Carcinog** 1997 Feb;18(2):78–88

Comparative analyses of relative ERCC3 and ERCC6 mRNA levels in gliomas and adjacent non-neoplastic brain. Dabholkar MD, et al. **Mol Carcinog** 1996 Sep;17(1):1–7

ras downregulation of protein kinase C mRNA in C3H 10T1/2 fibroblasts. Fernandes ER, et al. **Mol Carcinog** 1996 Sep;17(1):23–34

Upregulation of endogenous p53 and induction of in vivo apoptosis in B-lineage lymphomas of E(mu)-myc transgenic mice by deregulated c-myc transgene. Prasad VS, et al. **Mol Carcinog** 1997 Feb;18(2):66–77

Uncoordinated regulation of mRNA expression of the three isoforms of transforming growth factor-beta in the mouse skin carcinogenesis model. Rundhaug JE, et al. **Mol Carcinog** 1997 Feb;18(2):115–26

Identification of differentially expressed genes in chemically induced skin tumors. Rutberg SE, et al. **Mol Carcinog** 1997 Sep;20(1):88–98

Altered transcriptional regulation of the insulin-like growth factor 2 gene in human hepatocellular carcinoma. Uchida K, et al. **Mol Carcinog** 1997 Apr;18(4):193–8

Frequent inactivation of the p16 gene in human pituitary tumors by gene methylation. Woloschak M, et al. **Mol Carcinog** 1997 Aug;19(4):221–4

Functional characterization of p53 molecules expressed in human squamous cell carcinomas of the head and neck. Yeudall WA, et al. **Mol Carcinog** 1997 Feb;18(2):89–96

Constitutive activation of NF-kappaB during progression of breast cancer to hormone-independent growth. Nakshatri H, et al. **Mol Cell Biol** 1997 Jul;17(7):3629–39

Constitutive activation of the RON gene promotes invasive growth but not transformation [published erratum appears in Mol Cell Biol 1997 Mar;17(3):1758] Santoro MM, et al. **Mol Cell Biol** 1996 Dec;16(12):7072–83

Osmotic and non-osmotic regulation of arginine vasopressin (AVP) release, mRNA, and promoter activity in small cell lung carcinoma (SCLC) cells. Kim JK, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):179–86

A novel protease homolog differentially expressed in breast and ovarian cancer. Anisowicz A, et al. **Mol Med** 1996 Sep;2(5):624–36

CholecystokininB receptor from human Jurkat lymphoblastic T cells is involved in activator protein-1-responsive gene activation. Oiry C, et al. **Mol Pharmacol** 1997 Aug; 52(2):292–9

Studies of oncogene activation and tumor suppressor gene inactivation in normal and neoplastic rodent tissue. Buzard GS. **Mutat Res** 1996 Sep;365(1-3):43–58 (111 ref.)

Frequent alterations in gene expression in colon tumor cells of the microsatellite mutator phenotype. Ricote M, et al. **Mutat Res** 1997 Mar 21;374(2):153–67

Homozygous inactivation of the NF1 gene in bone marrow cells from children with neurofibromatosis type 1 and malignant myeloid disorders. Side L, et al. **N Engl J Med** 1997 Jun 12;336(24):1713–20

Frequent translocation t(4;14)(p16.3;q32.3) in multiple myeloma is associated with increased expression and activating mutations of fibroblast growth factor receptor 3. Chesi M, et al. **Nat Genet** 1997 Jul;16(3):260–4

Nuclear localization and increased levels of transcription factor YB-1 in primary human breast cancers are associated with intrinsic MDR1 gene expression [see comments]

Bargou RC, et al. **Nat Med** 1997 Apr;3(4):447–50. Comment in: Nat Med 1997 Apr;3(4):378–80.

Suppression of SPARC expression by antisense RNA abrogates the tumorigenicity of human melanoma cells. Ledda MF, et al. **Nat Med** 1997 Feb;3(2):171–6

Adenovirally transferred p16INK4/CDKN2 and p53 genes cooperate to induce apoptotic tumor cell death. Sandig V, et al. **Nat Med** 1997 Mar;3(3):313–9

Expression of N-ras gene in gliomas. Tsurushima H, et al. **Neurol Med Chir (Tokyo)** 1996 Oct;36(10):704–8

Expression of MAGE genes in colorectal carcinomas. Nishimura S, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Apr;20(2):95–101

Pim-2 transgene induces lymphoid tumors, exhibiting potent synergy with c-myc. Allen JD, et al. **Oncogene** 1997 Sep 4;15(10):1133–41

Somatic in frame deletions not involving juxtamembranous cysteine residues strongly activate the RET proto-oncogene. Ceccherini I, et al. **Oncogene** 1997 May 29;14(21):2609–12

ESX: a structurally unique Ets overexpressed early during human breast tumorigenesis. Chang CH, et al. **Oncogene** 1997 Apr 3;14(13):1617–22

Transforming activity and mitosis-related expression of the AKT2 oncogene: evidence suggesting a link between cell cycle regulation and oncogenesis. Cheng JQ, et al. **Oncogene** 1997 Jun 12;14(23):2793–801

c-Myc plays a role in cellular susceptibility to death receptor-mediated and chemotherapy-induced apoptosis in human monocytic leukemia U937 cells. Dong J, et al. **Oncogene** 1997 Aug 7;15(6):639–47

JEM-1, a novel gene encoding a leucine-zipper nuclear factor upregulated during retinoid-induced maturation of NB4 promyelocytic leukaemia. Duprez E, et al. **Oncogene** 1997 Apr 3;14(13):1563–70

Preferential activation of Fgf8 by proviral insertion in mammary tumors of Wnt1 transgenic mice. Kapoun AM, et al. **Oncogene** 1997 Jun 19;14(24):2985–9

Constitutive expression of the Wilms tumor suppressor gene WT1 in F9 embryonal carcinoma cells induces apoptotic cell death in response to retinoic acid. Kudoh T, et al. **Oncogene** 1996 Oct 3;13(7):1431–9

Identification of a novel gene product, RIG, that is down-regulated in human glioblastoma. Ligon AH, et al. **Oncogene** 1997 Mar 6;14(9):1075–81

Frequent inactivation of p16INK4a in oral premalignant lesions. Papadimitrakopoulou V, et al. **Oncogene** 1997 Apr 17;14(15):1799–803

Mob-1, a Ras target gene, is overexpressed in colorectal cancer. Zhang R, et al. **Oncogene** 1997 Apr 3; 14(13):1607–10

Variations in the expression of the adenomatous polyposis coli (APC) tumor suppressor gene in human cancer cell lines of different tissue origin. Dihlmann S, et al. **Oncol Res** 1997;9(3):119–27

Progressive upregulation of metastasis-related genes in human colon cancer cells implanted into the cecum of nude mice. Takahashi Y, et al. **Oncol Res** 1996;8(4):163–9

p53 protein expression in gastrointestinal lymphomas. Hazar B, et al. **Oncology** 1997 Jan-Feb;54(1):84–7

Relationship between p53 overexpression and gastric cancer progression. Kim JH, et al. **Oncology** 1997 Mar-Apr; 54(2):166–70

Comparison of cytogenetics, cytokine secretion, and oncogene expression in primary cultures of renal carcinoma cells. Lahn M, et al. **Oncology** 1997 Sep-Oct;54(5):429–37

Prognostic significance of the expressions of metallothionein, glutathione-S-transferase-pi, and P-glycoprotein in curatively resected gastric cancer. Monden N, et al. **Oncology** 1997 Sep-Oct;54(5):391–9

Expression of E-cadherin, alpha-catenin, beta-catenin and plakoglobin in esophageal carcinomas and its prognostic significance: immunohistochemical analysis of 96 lesions. Nakanishi Y, et al. **Oncology** 1997 Mar-Apr;54(2):158–65

Inverse relationship between P-glycoprotein expression and its proliferative activity in hepatocellular carcinoma. Takanishi K, et al. **Oncology** 1997 May-Jun;54(3):231–7

Increased thymidylate synthase gene expression in metastatic melanoma. Vlaykova T, et al. **Oncology** 1997 Mar-Apr; 54(2):146–52

Studies of the expression of epidermal growth factor receptor in human renal cell carcinoma: a comparison of immunohistochemical method versus ligand binding assay. Yoshida K, et al. **Oncology** 1997 May-Jun;54(3):220–5

Modulation of S-100 genes response to growth conditions in human epithelial tumor cells. Matsumoto T, et al. **Pathol Int** 1997 Jun;47(6):339–46

What's new in ras genes? Physiological role of ras genes in signal transduction and significance of ras gene activation in tumorigenesis. Waldmann V, et al. **Pathol Res Pract** 1996 Sep;192(9):883–91 (119 ref.)

p16: at last a tumor suppressor gene involved in childhood acute lymphoblastic leukemias! [editorial] Leblanc T. **Pediatr Hematol Oncol** 1997 Mar-Apr;14(2):iii–viii (15 ref.)

Expression of the calcitonin gene family in medullary thyroid carcinoma. Schifter S. **Peptides** 1997;18(2):307–17 (151 ref.)

Downregulation in vivo of the invasion-suppressor molecule E-cadherin in experimental and clinical cancer. Mareel M, et al. **Princess Takamatsu Symp** 1994;24:63–80 (71 ref.)

Invasive carcinomas dismantle surrounding stroma induced to express the nuclear factor c-ets-1. Stehelin D. **Princess Takamatsu Symp** 1994;24:171–86 (48 ref.)

Cancer-stromal interaction through growth factor/cytokine networks implicated in growth of stomach cancer. Tahara E. **Princess Takamatsu Symp** 1994;24:187–94 (19 ref.)

Conditional switching of vascular endothelial growth factor (VEGF) expression in tumors: induction of endothelial cell shedding and regression of hemangioblastoma-like vessels by VEGF withdrawal. Benjamin LE, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8761–6

Conservation of the Drosophila lateral inhibition pathway in human lung cancer: a hairy-related protein (HES-1) directly represses achaete-scute homolog-1 expression. Chen H, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):5355–60

A testicular antigen aberrantly expressed in human cancers detected by autologous antibody screening. Chen YT, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1914–8

Loss of the retinoblastoma protein-related p130 protein in small cell lung carcinoma. Helin K, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6933–8

Dominant transformation by mutated human ras genes in vitro requires more than 100 times higher expression than is observed in cancers. Hua VY, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9614–9

Negative regulation of hypoxia-inducible genes by the von Hippel-Lindau protein. Iliopoulos O, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10595–9

Role for Bcl-xL as an inhibitor of cytosolic cytochrome C accumulation in DNA damage-induced apoptosis. Kharbanda S, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6939–42

Limited up-regulation of DNA methyltransferase in human colon cancer reflecting increased cell proliferation. Lee PJ, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10366–70

Hypoxia-inducible factor-1 modulates gene expression in solid tumors and influences both angiogenesis and tumor growth. Maxwell PH, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8104–9

Inhibition of tumorigenesis by a cytosine-DNA, methyltransferase, antisense oligodeoxynucleotide. Ramchandani S, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):684–9

Expression of a gene encoding a tRNA synthetase-like protein is enhanced in tumorigenic human myeloid leukemia cells and is cell cycle stage- and differentiation-dependent. Sen S, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6164–9

c-Myc transactivation of LDH-A: implications for tumor metabolism and growth. Shim H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6658–63

Altered expression of the WT1 wilms tumor suppressor gene in human breast cancer. Silberstein GB, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8132–7

Proviral insertions induce the expression of bone-specific isoforms of PEBP2alphaA (CBFA1): evidence for a new myc collaborating oncogene. Stewart M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8646–51

Wild-type p53 triggers a rapid senescence program in human tumor cells lacking functional p53. Sugrue MM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9648–53

Chondrocytes as a specific target of ectopic Fos expression in early development. Watanabe H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3994–9

Expression of the apoptosis suppressing protein bcl-2 in prostatic adenocarcinoma is related to tumor malignancy. Lipponen P, et al. **Prostate** 1997 Jun 15;32(1):9–15

Identification of differentially expressed prostate genes: increased expression of transcription factor ETS-2 in prostate cancer. Liu AY, et al. **Prostate** 1997 Feb 15; 30(3):145–53

MR imaging and scintigraphy of gene expression through melanin induction. Weissleder R, et al. **Radiology** 1997 Aug; 204(2):425–9

p53 protein expression in esophageal squamous cell papillomas: a study of 36 lesions. Poljak M, et al. **Scand J Gastroenterol** 1996 Jan;31(1):10–3

Basal cell carcinomas in mice overexpressing sonic hedgehog. Oro AE, et al. **Science** 1997 May 2;276(5313):817–21

Stabilization of beta-catenin by genetic defects in melanoma cell lines [see comments] Rubinfeld B, et al. **Science** 1997 Mar 21;275(5307):1790–2. Comment in: Science 1997 Mar 21;275(5307):1752–3.

Genes transfected into embryonal carcinoma stem cells are both lost and inactivated at high frequency. Schmidt-Kastner PK, et al. **Somat Cell Mol Genet** 1996 Sep;22(5):383–92

Hepatocyte growth factor/scatter factor expression and c-met in primary breast cancer. Nagy J, et al. **Surg Oncol** 1996 Feb;5(1):15–21

Decreased expression of the DCC gene in human breast carcinoma. Wakita K, et al. **Surg Today** 1996;26(11):900–3

Regulation of glutamine synthetase in human breast carcinoma cells and experimental tumors. Collins CL, et al. **Surgery** 1997 Aug;122(2):451–63; discussion 463–4

Regulation of vascular endothelial growth factor expression in human colon carcinoma cells by activity of src kinase. Fleming RY, et al. **Surgery** 1997 Aug;122(2):501–7

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 May;47(5):408–13

Expression of MHC Class II and B7-1 and B7-2 costimulatory molecules accompanies tumor rejection and reduces the metastatic potential of tumor cells. Ostrand-Rosenberg S, et al. **Tissue Antigens** 1996 May; 47(5):414–21

Molecular and functional phenotypes of melanoma cells with abnormalities in HLA class I antigen expression. Wang Z, et al. **Tissue Antigens** 1996 May;47(5):382–90

Lack of prognostic value of p53 protein expression in node-negative breast cancer. Bianchi S, et al. **Tumori** 1997 May-Jun;83(3):669–72

Combined and sequential expression of p53, Rb, Ras and Bcl-2 in bronchial preneoplastic lesions. Ferron PE, et al. **Tumori** 1997 Mar-Apr;83(2):587–93

Cytoplasmic localization of endothelial constitutive nitric oxide synthase in endometrial carcinomas. Bentz BG, et al. **Tumour Biol** 1997;18(5):290–300

Enhanced expression of manganese superoxide dismutase mRNA and increased TNFalpha mRNA expression by gastric mucosa in gastric cancer. Izutani R, et al. **World J Surg** 1996 Feb;20(2):228–33

[Analysis of DNA methylation pattern of c-myc oncogene in hepatocellular carcinoma] Xiao W, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):501–4 (Eng. Abstr.) **(Chi)**

[A study of the expression of MDR1 gene in solid tumors. Initial results of a multicenter evaluation] Chevillard S, et al. **Bull Cancer** 1996 Aug;83(8):626–33 (Eng. Abstr.) **(Fre)**

[Apropos of the studies of Lewis, Nusslein-Volhard and Wieschaus, 1995 Nobel prize winners, on the genetic mechanisms of embryonic development of drosophila. A model for human cancer progression] Cillo C. **Bull Cancer** 1996 Jul;83(7):527–34 (30 ref.) (Eng. Abstr.) **(Fre)**

[Prognostic value of the immunohistochemical overexpression of p53 in breast carcinoma: facts or artifacts?] **Pathologica** 1996 Feb;88(1):58–63 (35 ref.) **(Ita)**

[Regulation mechanism of specific expression of tumor marker gene during carcinogenesis] Imagawa M. **Yakugaku Zasshi** 1996 Jul;116(7):505–18 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Identification of the new protein kinase specifically transcribed in mouse tumors with high metastatic potential] Korobko IV, et al. **Dokl Akad Nauk** 1997 Jun;354(4):554–6 **(Rus)**

[Expression of pS2 protein in breast cancer and its relationship with estrogen and progesterone receptors] Díez Gibert O, et al. **Med Clin (Barc)** 1996 Jun 15; 107(3):90–2 (Eng. Abstr.) **(Spa)**

[Levels of cytokeratin CK19 expression in mononuclear blood cells evaluated using a reverse PCR (RT-PCR)] López Guerrero JA, et al. **Sangre (Barc)** 1996 Dec; 41(6):441–6 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Dexamethasone suppresses mucus production and MUC-2 and MUC-5AC gene expression by NCI-H292 cells. Kai H, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):L484–8

Activation of the retinoic acid receptor beta gene by 5-aza-2'-deoxycytidine in human DLD-1 colon carcinoma cells. Côté S, et al. **Anticancer Drugs** 1997 Jan;8(1):56–61

Effects of modulators of multidrug resistance on the expression of the MDR1 gene on human KB cells in culture. Hu YP, et al. **Anticancer Drugs** 1996 Sep; 7(7):738–44

Antisense-protein kinase A: a single-gene-based therapeutic approach. Cho-Chung YS, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):217–23 (20 ref.)

Protein kinase A-directed antisense restrains cancer growth: sequence-specific inhibition of gene expression. Cho-Chung YS. **Antisense Nucleic Acid Drug Dev** 1996 Fall;6(3):237–44 (52 ref.)

Interleukin-10 inhibited the expression of tumor antigens and major histocompatibility complex antigen on EJ-ras oncogene transformants. Tsuruma T, et al. **Artif Organs** 1996 Aug;20(8):895–7

Gamma linolenic acid regulates expression of maspin and the motility of cancer cells. Jiang WG, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):639–44

Pretreatment by tubulin agents decreases C-MYC induction in human colon carcinoma cell line HT29-D4. el Khyari S, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):751–4

A tetracycline-responsive promoter system reveals the role of a secreted binding protein for FGFs during the early phase of tumor growth. Liaudet-Coopman ED, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):930–7

Retinoic acids differentially regulate NOR-1 and its closely related orphan nuclear receptor genes in breast cancer cell line MCF-7. Maruyama K, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):417–20

Molecular cloning of the genes suppressed in RVC lymphoma cells by topoisomerase inhibitors. Onishi Y, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):7–13

Redox regulation of lipopolysaccharide (LPS)-induced interleukin-8 (IL-8) gene expression mediated by NF kappa B and AP-1 in human astrocytoma U373 cells. Tanaka C, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):568–73

Proximal 5'-flanking sequence of the human gamma-glutamylcysteine synthetase heavy subunit gene is

involved in cisplatin-induced transcriptional up-regulation in a lung cancer cell line SBC-3. Tomonari A, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):616–21

Phosphorothioate-capped antisense oligonucleotides to Ras GAP inhibit cell proliferation and trigger apoptosis but fail to downregulate GAP gene expression. White JR, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):118–24

Inhibition of the expression of ornithine decarboxylase and c-Myc by cell-permeant ceramide in difluoromethylornithine-resistant leukaemia cells. Flamigni F, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):783–9

Inhibition of spermidine synthase gene expression by transforming growth factor-beta 1 in hepatoma cells. Nishikawa Y, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):537–43

Regulation of androgen receptor (AR) and prostate specific antigen (PSA) expression in the androgen-responsive human prostate LNCaP cells by ethanolic extracts of the Chinese herbal preparation, PC-SPES. Hsieh T, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):535–44

A cell culture model to study regulation of selenoprotein gene expression of selenium. Bermano G, et al. **Biochem Soc Trans** 1996 May;24(2):224S

Cytokine regulation of matrilysin gene expression. Fingleton B, et al. **Biochem Soc Trans** 1997 May;25(2):155S

IL-1 gene expression in human mammary tumour xenografts after treatment with hexadecylphosphocholine. Safa O, et al. **Biochem Soc Trans** 1997 May;25(2):265S

Expression of constructs between the glucose-6-phosphatase promoter and a reporter gene in an insulinoma cell line: regulation by glucose, dibutyryl cAMP and dexamethasone. Schmoll D, et al. **Biochem Soc Trans** 1997 May;25(2):180S

Ectopic expression of the erythropoietin receptor in a murine interleukin-6-dependent plasmacytoma cell line (TEPC-2027) confers proliferative responsiveness to erythropoietin. Féger F, et al. **Blood** 1997 Jan 15; 89(2):435–45

Downregulation of RAR alpha in mice by antisense transgene leads to a compensatory increase in RAR beta and RAR gamma and development of lymphoma. Manshouri T, et al. **Blood** 1997 Apr 1;89(7):2507–15

Helix-loop-helix-type transcription factor (HES-1) is expressed in osteoblastic cells, suppressed by 1,25(OH)2 vitamin D3, and modulates 1,25(OH)2 vitamin D3 enhancement of osteopontin gene expression. Matsue M, et al. **Bone** 1997 Apr;20(4):329–34

Steroid hormone regulation of prostate-specific antigen gene expression in breast cancer. Zarghami N, et al. **Br J Cancer** 1997;75(4):579–88

Tetrahydrobiopterin biosynthesis in C6 glioma cells: induction of GTP cyclohydrolase I gene expression by lipopolysaccharide and cytokine treatment. D Sa C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):105–10

1,25-Dihydroxyvitamin D3 regulates the expression of the low-affinity neurotrophin receptor. Naveilhan P, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):259–68

GDNF mRNA levels are induced by FGF-2 in rat C6 glioblastoma cells. Suter-Crazzolara C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):175–82

Regulation of c-fos and c-jun expression by calcitonin in human breast cancer cells. Lacroix M, et al. **Calcif Tissue Int** 1997 Jun;60(6):513–9

Differential cytotoxicity of clinically important camptothecin derivatives in P-glycoprotein-overexpressing cell lines. Hoki Y, et al. **Cancer Chemother Pharmacol** 1997; 40(5):433–8

A novel quinoline derivative, MS-209, overcomes drug resistance of human lung cancer cells expressing the multidrug resistance-associated protein (MRP) gene. Narasaki F, et al. **Cancer Chemother Pharmacol** 1997; 40(5):425–32

Antisense down-regulation of metallothionein induces growth arrest and apoptosis in human breast carcinoma cells. Abdel-Mageed A, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):199–207

Alteration of proto-oncogenes during apoptosis in the oral squamous cell carcinoma cell line, SAS, induced by staurosporine. Abiko Y, et al. **Cancer Lett** 1997 Sep 16; 118(1):101–7

High-risk HPV-positive human cancer cell lines show different sensitivity to cisplatin-induced apoptosis correlated with the p21Waf1/Cip1 level. Funaoka K, et al. **Cancer Lett** 1996 Nov 12;108(1):15–23

Effect of dexamethasone on invasion of human squamous cell carcinoma cells into collagen gel. Hayashido Y, et al. **Cancer Lett** 1996 Nov 12;108(1):81–6

p53 status does not affect sensitivity of human ovarian cancer cell lines to paclitaxel. Debernardis D, et al. **Cancer Res** 1997 Mar 1;57(5):870–4

Potentiation of the antiangiogenic ability of linomide by androgen ablation involves down-regulation of vascular endothelial growth factor in human androgen-responsive prostatic cancers. Joseph IB, et al. **Cancer Res** 1997 Mar 15;57(6):1054–7

Growth inhibition of human breast cancer cells by 1,25-dihydroxyvitamin D3 is accompanied by induction of apolipoprotein D expression. López-Boado YS, et al. **Cancer Res** 1997 Sep 15;57(18):4091–7

Reversal of the in vivo metastatic phenotype of human tumor cells by an anti-CAPL (mts1) ribozyme. Maelandsmo GM, et al. **Cancer Res** 1996 Dec 1;56(23):5490–8

Effect of PD 098059, a specific inhibitor of mitogen-activated protein kinase kinase, on urokinase expression and in vitro invasion. Simon C, et al. **Cancer Res** 1996 Dec 1; 56(23):5369–74

Novel estrogenic action of the pesticide residue beta-hexachlorocyclohexane in human breast cancer cells. Steinmetz R, et al. **Cancer Res** 1996 Dec 1;56(23):5403–9

Identification of constitutive and gamma-interferon- and interleukin 4-regulated proteins in the human renal carcinoma cell line ACHN. Sullivan CM, et al. **Cancer Res** 1997 Mar 15;57(6):1137–43

Androgens stimulate fatty acid synthase in the human prostate cancer cell line LNCaP. Swinnen JV, et al. **Cancer Res** 1997 Mar 15;57(6):1086–90

Induction of the alkyltransferase (MGMT) gene by DNA damaging agents and the glucocorticoid dexamethasone and comparison with the response of base excision repair genes. Grombacher T, et al. **Carcinogenesis** 1996 Nov; 17(11):2329–36

Increased gene expression in human promyeloid leukemia cells exposed to trans,trans-muconaldehyde, a hematotoxic benzene metabolite. Ho TY, et al. **Carcinogenesis** 1997 Apr; 18(4):739–44

The C-terminal Src kinase (Csk) is widely expressed, active in HT-29 cells that contain activated Src, and its expression is downregulated in butyrate-treated SW620 cells. Li S, et al. **Cell Biol Int** 1996 Nov;20(11):723–9

Staurosporine-induced G1 arrest is associated with the induction and accumulation of cyclin-dependent kinase inhibitors. Kwon TK, et al. **Cell Growth Differ** 1996 Oct; 7(10):1305–13

Estrogenic effects of nonylphenol on pS2, ER and MUC1 gene expression in human breast cancer cells-MCF-7. Ren L, et al. **Chem Biol Interact** 1997 Apr 18;104(1):55–64

Antisense regulation of oncogenes in human cancer. Mukhopadhyay T, et al. **Crit Rev Oncog** 1996;7(3-4):151–90 (251 ref.)

Antisense therapy. Narayanan R, et al. **Curr Opin Oncol** 1996 Nov;8(6):509–15 (66 ref.)

Rapid recovery of a functional MDR phenotype caused by MRP after a transient exposure to MDR drugs in a revertant human lung cancer cell line. Gonzalez Manzano R, et al. **Eur J Cancer** 1996 Nov;32A(12):2136–41

PKC-dependent long-term effect of PMA on protein cell surface expression in Caco-2 cells. Sapin C, et al. **Exp Cell Res** 1997 Mar 15;231(2):308–18

Expression of glucagon-like peptide 1 receptor in a murine C cell line: regulation of calcitonin gene by glucagon-like peptide 1. Lamari Y, et al. **FEBS Lett** 1996 Sep 16; 393(2-3):248–52

Expression of urokinase-type plasminogen activator, its receptor and type-1 plasminogen activator inhibitor is differently regulated by inhibitors of protein synthesis in human cancer cell lines. Lund LR. **FEBS Lett** 1996 Apr 1;383(3):139–44

Stimulatory effects of parathyroid hormone and 1,25-dihydroxyvitamin D3 on insulin-like growth factor-binding protein-5 mRNA expression in osteoblastic UMR-106 cells: the difference between transient and continuous treatments. Nasu M, et al. **FEBS Lett** 1997 Jun 2;409(1):63–6

Sodium butyrate inhibits the expression of the human lecithin: cholesterol acyltransferase gene in HepG2 cells by a post-transcriptional mechanism. Skretting G, et al. **FEBS Lett** 1997 Mar 3;404(1):105–10

Isolation of retinoic acid-repressed genes from P19 embryonal carcinoma cells. Nakshatri H, et al. **Gene** 1996 Sep 26;174(1):79–84

Expression of genes of potential importance in the response to chemotherapy and DNA repair in patients with ovarian cancer. Codegoni AM, et al. **Gynecol Oncol** 1997 Apr; 65(1):130–7

An RGD containing peptide from HIV-1 Tat-(65-80) modulates protooncogene expression in human bronchoalveolar carcinoma cell line, A549. el-Solh A, et al. **Immunol Invest** 1997 Apr;26(3):351–70

Insights into the mechanism of action of benzoyl peroxide as a tumor promoter. Rudra N, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):109–15

All-trans, 13-cis and 9-cis retinoic acids induce a fully reversible growth inhibition in HNSCC cell lines: implications for in vivo retinoic acid use. Giannini F, et al. **Int J Cancer** 1997 Jan 17;70(2):194–200

Effects of the tyrosine-kinase inhibitor geldanamycin on ligand-induced Her-2/neu activation, receptor expression and proliferation of Her-2-positive malignant cell lines. Hartmann F, et al. **Int J Cancer** 1997 Jan 17;70(2):221–9

Inhibition of cytarabine-induced MDR1 (P-glycoprotein) gene activation in human tumor cells by fatty acid-polyethylene glycol-fatty acid diesters, novel inhibitors of P-glycoprotein function. Komarov PG, et al. **Int J Cancer** 1996 Oct 9;68(2):245–50

Human ovarian-carcinoma cell lines express IL-4 and IL-13 receptors: comparison between IL-4- and IL-13-induced signal transduction. Murata T, et al. **Int J Cancer** 1997 Jan 17;70(2):230–40

Interleukin-10 is a growth factor for human melanoma cells and down-regulates HLA class-I, HLA class-II and ICAM-1 molecules. Yue FY, et al. **Int J Cancer** 1997 May 16;71(4):630–7

Effect of radiation and paclitaxel on p53 expression in murine tumors sensitive or resistant to apoptosis induction. Saito Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):623–31

Exposure to vinblastine modulates beta 1 integrin expression and in vitro binding to extracellular matrix molecules in a human renal carcinoma cell line. Duensing S, et al. **Invasion Metastasis** 1996;16(2):65–72

Inhibition of B16 melanoma cell proliferation and alterations in p21 ras expression induced by interceptors of signal transduction pathways. Nordenberg J, et al. **Isr J Med Sci** 1996 Dec;32(12):1153–7

Esterase inhibitors diminish the modulation of gene expression by butyric acid derivative, pivaloyloxymethyl butyrate (AN-9). Rabizadeh E, et al. **Isr J Med Sci** 1996 Dec;32(12):1186–91

Identifying differential gene expression in monoterpene-treated mammary carcinomas using subtractive display. Ariazi EA, et al. **J Biol Chem** 1996 Nov 15;271(46):29286–94

Daunorubicin activates NFkappaB and induces kappaB-dependent gene expression in HL-60 promyelocytic and Jurkat T lymphoma cells. Boland MP, et al. **J Biol Chem** 1997 May 16;272(20):12952–60

Effect of the cytostatic butyric acid pro-drug, pivaloyloxymethyl butyrate, on the tumorigenicity of cancer cells. Aviram A, et al. **J Cancer Res Clin Oncol** 1997;123(5):267–71

NDF induces expression of a novel 46 kD protein in estrogen receptor positive breast cancer cells. Kumar R, et al. **J Cell Biochem** 1996 Jul;62(1):102–12

The erbB 2 oncogene and chemotherapy: a mini-review. Torre EA, et al. **J Chemother** 1997 Feb;9(1):51–5 (46 ref.)

Increased heat shock protein 90 (hsp90) expression leads to increased apoptosis in the monoblastoid cell line U937 following induction with TNF-alpha and cycloheximide: a possible role in immunopathology. Galea-Lauri J, et al. **J Immunol** 1996 Nov 1;157(9):4109–18

Dexamethasone potently enhances phorbol ester-induced IL-1beta gene expression and nuclear factor NF-kappaB activation. Wang Y, et al. **J Immunol** 1997 Jul 15; 159(2):534–7

Repression of interleukin-2 and interleukin-4 promoters by tumor suppressor protein p53. Pesch J, et al. **J Interferon Cytokine Res** 1996 Aug;16(8):595–600

Interferon-beta prevents the upregulation of interleukin-8 expression in human melanoma cells. Singh RK, et al. **J Interferon Cytokine Res** 1996 Aug;16(8):577–84

Ion channel expression in PMA-differentiated human THP-1 macrophages. DeCoursey TE, et al. **J Membr Biol** 1996 Jul;152(2):141–57

Multidrug resistance in breast cancer—is the jury in yet? [editorial; comment] Kaye SB. **J Natl Cancer Inst** 1997 Jul 2;89(13):902–3. Comment on: J Natl Cancer Inst 1997 Jul 2;89(13):917–31.

Prevention of preneoplastic mammary lesion development by a novel vitamin D analogue, 1alpha-hydroxyvitamin D5 [see comments] Mehta RG, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):212–8. Comment in: J Natl Cancer Inst 1997 Feb 5;89(3):182–5.

Multidrug resistance in breast cancer: a meta-analysis of MDR1/gp170 expression and its possible functional significance [see comments] Trock BJ, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):917–31. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):902–3. Comment in: J Natl Cancer Inst 1997 Jul 2;89(13):904–5.

Induction of apoptosis in small-cell lung cancer cells by an antisense oligodeoxynucleotide targeting the Bcl-2 coding sequence [see comments] Ziegler A, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1027–36. Comment in: J Natl Cancer Inst 1997 Jul 16;89(14):988–90.

Interleukin-1 beta and tumor necrosis factor-alpha induce expression of alpha 1-antichymotrypsin in human astrocytoma cells by activation of nuclear factor-kappa B. Lieb K, et al. **J Neurochem** 1996 Nov;67(5):2039–44

Identification of estrogen-responsive genes in neuroblastoma SK-ER3 cells. Garnier M, et al. **J Neurosci** 1997 Jun 15; 17(12):4591–9

Differential expression of M-CSF, LIF, and TNF-alpha genes in normal and malignant rat glial cells: regulation by lipopolysaccharide and vitamin D. Furman I, et al. **J Neurosci Res** 1996 Nov 1;46(3):360–6

Neuronal differentiation in SH-SY5Y human neuroblastoma cells induces synthesis and secretion of tenascin and upregulation of alpha(v) integrin receptors. Linnala A, et al. **J Neurosci Res** 1997 Jul 1;49(1):53–63

Drug-induced changes of carcinoembryonic antigen expression in human cancer cells: effect of 5-fluorouracil. Prete SP, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1574–81

Serum factors inhibit melanoma cell surface expression of type I and type II IGF receptors. Bellan C, et al. **J Recept Signal Transduct Res** 1996 Jan-Mar; 16(1-2):115–34

Sex steroids regulate the expression of plasminogen activator inhibitor-1 (PAI-1) and its mRNA in uterine endometrial cancer cell line Ishikawa. Fujimoto J, et al. **J Steroid Biochem Mol Biol** 1996 Sep;59(1):1–8

Effect of growth factors on estrogen receptor mediated gene expression. Hafner F, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):385–93

Inverse regulation of oestrogen receptor and epidermal growth factor receptor gene expression in MCF-7 breast cancer cells treated with phorbol ester. Lee CS, et al.

J Steroid Biochem Mol Biol 1996 Jun;58(3):267–75

Characterization of the functional progesterone receptor in an endometrial adenocarcinoma cell line (Ishikawa): progesterone–induced expression of the alpha1 integrin [published erratum appears in J Steroid Biochem Mol Biol 1997 Jan;60(1–2):161] Lessey BA, et al. **J Steroid Biochem Mol Biol** 1996 Sep;59(1):31–9

Modulation of colon tumor oncogene expression by cancer patient–derived lipids. Taylor DD, et al. **J Surg Oncol** 1996 Sep;63(1):46–51

Oxygen– and dioxin–regulated gene expression in mouse hepatoma cells. Gassmann M, et al. **Kidney Int** 1997 Feb; 51(2):567–74

Antisense strategy: biological utility and prospects in the treatment of hematological malignancies. Warzocha K, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):267–81 (101 ref.)

Modulation of p53, WAF1/p21 and BCL–2 expression during retinoic acid–induced differentiation of NB4 promyelocytic cells. Bocchia M, et al. **Leuk Res** 1997 May;21(5):439–47

Differential effects of phorbol ester on signaling and gene expression in human leukemia cells. Hass R, et al. **Leuk Res** 1997 Jul;21(7):589–94

Protein kinase C is not necessary for transforming growth factor beta–induced growth–arrest in leukemia cell lines [see comments] Manzel L, et al. **Leuk Res** 1997 May; 21(5):403–10. Comment in: Leuk Res 1997 May;21(5):411–4.

Enhancement of mdr1 gene expression by transforming growth factor–beta1 in the new adriamycin–resistant human leukemia cell line ME–F2/ADM [letter] Utsunomiya Y, et al. **Leukemia** 1997 Jun;11(6):894–5

The Pbx family of proteins is strongly upregulated by a post–transcriptional mechanism during retinoic acid–induced differentiation of P19 embryonal carcinoma cells. Knoepfler PS, et al. **Mech Dev** 1997 Apr;63(1):5–14

Chemotherapy–induced expression of alpha B–crystallin in neuroblastoma. Ishiguro Y, et al. **Med Pediatr Oncol** 1997 Jul;29(1):11–5

Bropirimine as neoadjuvant therapy decreases residual disease and expression of markers PCNA and TGF–beta 1 in a rat orthotopic prostate adenocarcinoma. Lievano G, et al. **Methods Find Exp Clin Pharmacol** 1997 May; 19(4):261–7

Anaplasia and drug selection–independent overexpression of the multidrug resistance gene, MDR1, in Wilms' tumor. Re GG, et al. **Mod Pathol** 1997 Feb;10(2):129–36

Induction of HSP70 gene expression by modulation of Ca(+2) ion and cellular p53 protein by curcumin in colorectal carcinoma cells. Chen YC, et al. **Mol Carcinog** 1996 Dec;17(4):224–34

Negative glucorticoid regulation of cyclic adenosine 3', 5'–monophosphate–stimulated corticotropin–releasing hormone–reporter expression in AtT–20 cells. Guardiola–Diaz HM, et al. **Mol Endocrinol** 1996 Mar; 10(3):317–29

Arsenic alters cytosine methylation patterns of the promoter of the tumor suppressor gene p53 in human lung cells: a model for a mechanism of carcinogenesis. Mass MJ, et al. **Mutat Res** 1997 Jun;386(3):263–77

Ethanol exposure increases expression of c–jun and junD in human neuroblastoma cells. Ding WQ, et al. **Neuroreport** 1996 Sep 2;7(13):2191–5

Induction of apoptosis in human lung cancer cells after wild–type p53 activation by methoxyestradiol. Mukhopadhyay T, et al. **Oncogene** 1997 Jan 23;14(3):379–84

Inhibition by 5–fluorouracil of ERCC1 and gamma–glutamylcysteine synthetase messenger RNA expression in a cisplatin–resistant HST–1 human squamous carcinoma cell line. Fujishima H, et al. **Oncol Res** 1997; 9(4):167–72

Differential GADD45, p21CIP1/WAF1, MCL–1 and topoisomerase II gene induction and secondary DNA fragmentation after camptothecin–induced DNA damage in two mutant p53 human colon cancer cell lines. Goldwasser F, et al. **Oncol Res** 1996;8(7–8):317–23

The antiproliferative effect of trans–retinoic acid is associated with selective induction of interleukin–1 beta, a cytokine that directly inhibits growth of lung cancer cells. Ross HJ. **Oncol Res** 1996;8(4):171–8

Cytokine regulation of the matrix metalloproteinases and their inhibitors in human papillomavirus–18 transformed human prostatic tumor cell lines. Wang M, et al. **Oncol Res** 1996;8(7–8):303–15

Suramin inhibits the growth of non–small–cell lung cancer cells that express the epidermal growth factor receptor. Fujiuchi S, et al. **Oncology** 1997 Mar–Apr;54(2):134–40

Effect of tamoxifen on pS2 expression in human breast cancers. Motomura K, et al. **Oncology** 1997 Sep–Oct; 54(5):424–8

Use of transcription factors as agents and targets for drug development. Smith LM, et al. **Oncology (Huntingt)** 1996 Oct;10(10):1532–8; discussion 1541–2 (47 ref.)

The DNA methylation machinery as a target for anticancer therapy. Szyf M. **Pharmacol Ther** 1996;70(1):1–37 (321 ref.)

2,3,7,8–Tetrachlorodibenzo–p–dioxin mechanistic data and risk assessment: gene regulation, cytotoxicity, enhanced cell proliferation, and tumor promotion. Whysner J, et al. **Pharmacol Ther** 1996;71(1–2):193–223 (167 ref.)

Retinoids and secosteroids induce gene expression in human colorectal carcinoma–derived cells but the macroscopic–scale effects remain unpredictable. Waliszewska MK, et al. **Pol J Pathol** 1997;48(1):15–24

Transposition of DNase hypersensitive chromatin to the nuclear periphery coincides temporally with nerve growth factor–induced up–regulation of gene expression in PC12 cells. Park PC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11646–51

Response of cell growth and retinoic acid receptor expression to retinoic acid in neoplastic and non–neoplastic prostate cell lines. Jones HE, et al. **Prostate** 1997 Feb 15; 30(3):174–82

Neuropeptide Y receptor gene regulation in mouse adrenocortical Y–1 cells. Weng G, et al. **Regul Pept** 1996 May 7;63(1):53–6

Antisense oligonucleotides as therapeutics for malignant diseases. Ho PT, et al. **Semin Oncol** 1997 Apr;24(2):187–202 (103 ref.)

Characterization of a gastric tumor cell line defective in MHC class I inducibility by both alpha– and gamma–interferon. Abril E, et al. **Tissue Antigens** 1996 May;47(5):391–8

[Neovir, an interferon inductor, modifies expression of steroid hormone receptors in hormone–dependent tissues and restores sensitivity to tamoxifen in patients with inoperable breast cancer] Surkov KG, et al. **Vopr Onkol** 1996; 42(6):28–32 (Eng. Abstr.) **(Rus)**

GENETICS

The retinoblastoma gene product is a negative modulator of the apoptotic pathway. Fan G, et al. **Adv Enzyme Regul** 1996;36:283–303

Racial disparity in overexpression of the p53 tumor suppressor gene in stage I endometrial cancer. Clifford SL, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S229–32

Effects of cadmium on cellular calcium and proto–oncogene expression. Hechtenberg S, et al. **Ann Clin Lab Sci** 1996 Nov–Dec;26(6):512–21

Prognostic significance of Bcl–2 expression in localized squamous cell carcinoma of the head and neck. Friedman M, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):445–50

c–erbB–2/p185–directed therapy in human lung adenocarcinoma. Snider JM, et al. **Ann Thorac Surg** 1996 Nov;62(5):1454–9

bcl–2 vs p53 protein expression and apoptotic rate in human nonmelanoma skin cancers. Wikonkal NM, et al. **Arch Dermatol** 1997 May;133(5):599–602

Role of the 3' untranslated region in the regulation of cytosolic glutathione peroxidase and phospholipid–hydroperoxide glutathione peroxidase gene expression by selenium supply. Bermano G, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):891–5

Lactase and sucrase–isomaltase gene expression during Caco–2 cell differentiation. Van Beers EH, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):769–75

A cDNA encoding a putative 37 kDa leucine–rich repeat (LRR) protein, p37NB, isolated from S–type neuroblastoma cell has a differential tissue distribution. Kim D, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):183–8

Spatial association of apoptosis–related gene expression and cellular death in clinical neuroblastoma. Hoehner JC, et al. **Br J Cancer** 1997;75(8):1185–94

Use of cDNA cloning to study the mechanism of action of glucocorticoid hormones at the molecular level. Armelin MC, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1751–7 (50 ref.)

Expression of the MDR1 gene product P–glycoprotein in childhood neuroblastoma. Dhooge CR, et al. **Cancer** 1997 Oct 1;80(7):1250–7

Ribozyme–mediated suppression of v–myc expression abrogates apoptosis in transformed monocytes. Dolnikov A, et al. **Cancer Gene Ther** 1996 Sep–Oct;3(5):289–95

Mouse embryonal carcinoma cell–somatic cell hybrids as experimental tools for the study of cell differentiation and X chromosome activity. Takagi N. **Cancer Genet Cytogenet** 1997 Jan;93(1):48–55

AR4–2J cell line coexpresses dihydropyridine and omega–conotoxin sensitive Ca2+ channels. Bertrand V, et al. **Cell Calcium** 1996 Jun;19(6):495–500

Tissue–specific expression of human achaete–scute homologue–1 in neuroendocrine tumors: transcriptional regulation by dual inhibitory regions. Chen H, et al. **Cell Growth Differ** 1997 Jun;8(6):677–86

Antisense estrogen receptor RNA expression increases epidermal growth factor receptor gene expression in breast cancer cells. deFazio A, et al. **Cell Growth Differ** 1997 Aug; 8(8):903–11

Transcriptional defects underlie loss of E–cadherin expression in breast cancer. Ji X, et al. **Cell Growth Differ** 1997 Jul;8(7):773–8

Transactivation through Ets and Ap1 transcription sites determines the expression of the tumor–suppressing gene maspin. Zhang M, et al. **Cell Growth Differ** 1997 Feb; 8(2):179–86

Use of microgenomic technology for analysis of alterations in DNA copy number and gene expression in malignant melanoma. Trent JM, et al. **Clin Exp Immunol** 1997 Jan; 107 Suppl 1:33–40

Activation of a novel proto–oncogene, Frat1, contributes to progression of mouse T–cell lymphomas. Jonkers J, et al. **EMBO J** 1997 Feb 3;16(3):441–50

Post–transcriptional induction of beta 1–adrenergic receptor by retinoic acid, but not triiodothyronine, in C6 glioma cells expressing thyroid hormone receptors [see comments] López–Barahona M, et al. **Eur J Endocrinol** 1996 Dec; 135(6):709–15. Comment in: Eur J Endocrinol 1996 Dec;135(6):651–2.

Value of p53 expression, cellular proliferation, and DNA content as prognostic indicators in renal cell carcinoma. Papadopoulos I, et al. **Eur Urol** 1997;32(1):110–7

p53 and c–jun expression in urinary bladder transitional cell carcinoma: correlation with proliferating cell nuclear antigen (PCNA) histological grade and clinical stage. Skopelitou A, et al. **Eur Urol** 1997;31(4):464–71

Fluorescent differential display analysis of gene expression in differentiating neuroblastoma cells. Kito K, et al. **Gene** 1997 Jan 3;184(1):73–81

Precise localization of the FHIT gene to the common fragile site at 3p14.2 (FRA3B) and characterization of homozygous deletions within FRA3B that affect FHIT transcription in tumor cell lines. Ong ST, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):16–23

Differential splicing of exon 5 of the Wilms tumour (WT1) gene. Renshaw J, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):256–66

Fucosyltransferase III and sialyl–Le(x) expression correlate in cultured colon carcinoma cells but not in colon carcinoma tissue. Hanski C, et al. **Glycoconj J** 1996 Oct; 13(5):727–33

The human intestinal cell lines Caco–2 and LS174T as models to study cell–type specific mucin expression. van Klinken BJ, et al. **Glycoconj J** 1996 Oct;13(5):757–68

p53 and HER–2/neu overexpression in ovarian borderline tumors. Eltabbakh GH, et al. **Gynecol Oncol** 1997 May; 65(2):218–24

DNA ploidy and expression of p53 and C–erbB–2 in extramammary Paget's disease of the vulva. Scheistrøen M, et al. **Gynecol Oncol** 1997 Jan;64(1):88–92

Early occurrence and prognostic significance of p53 alteration in primary carcinoma of the fallopian tube. Zheng W, et al. **Gynecol Oncol** 1997 Jan;64(1):38–48

Insulinoma associated with a case of multiple endocrine neoplasia type I: Functional somatostatin receptors and abnormal glucose–induced insulin secretion. Waeber G, et al. **Horm Res** 1997;48(2):76–82

Frequency of glutathione S–transferase M1 deletion in smokers with emphysema and lung cancer. Harrison DJ, et al. **Hum Exp Toxicol** 1997 Jul;16(7):356–60

In vitro and in vivo hepatoma cell–specific expression of a gene transferred with an adenoviral vector. Arbuthnot PB, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1503–14

Transcriptional regulation of the TGF–beta 2 gene in choriocarcinoma cells and breast carcinoma cells: differential utilization of Cis–regulatory elements. Kingsley–Kallesen M, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):294–301

Functional analysis of Drosophila developmental genes instrumental in tumor suppression. Gateff E, et al. **In Vivo** 1996 Mar–Apr;10(2):211–5 (29 ref.)

Tumor induction and tumor regression in Xiphophorus. Schartl A, et al. **In Vivo** 1996 Mar–Apr;10(2):179–84

Assessment of homogeneity in polypeptide expression in breast carcinomas shows widely variable expression in highly malignant tumors. Franzén B, et al. **Int J Cancer** 1996 Oct 21;69(5):408–14

MAGE–1 and MAGE–3 or –6 expression in neuroblastoma–related pediatric solid tumors. Ishida H, et al. **Int J Cancer** 1996 Oct 21;69(5):375–80

HLA class I antigen expression in human solid tumors. Klein B, et al. **Isr J Med Sci** 1996 Dec;32(12):1238–43 (23 ref.)

Prognostic value of the expression of p53, bcl–2, and bax oncoproteins, and neovascularization in patients with radically resected non–small–cell lung cancer. Apolinario RM, et al. **J Clin Oncol** 1997 Jun;15(6):2456–66

Mutational activation of the K–ras oncogene and the effect of chemotherapy in advanced adenocarcinoma of the lung: a prospective study. Rodenhuis S, et al. **J Clin Oncol** 1997 Jan;15(1):285–91

Regulated expression of artificial chimeric genes contained in retroviral vectors: implications for virus–directed enzyme prodrug therapy (VDEPT) and other gene therapy applications. Huber BE, et al. **J Drug Target** 1996; 3(5):349–56

Development of cancer immunotherapies based on identification of the genes encoding cancer regression antigens. Rosenberg SA. **J Natl Cancer Inst** 1996 Nov 20; 88(22):1635–44 (61 ref.)

p16 overexpression: a potential early indicator of transformation in ovarian carcinoma. Shigemasa K, et al. **J Soc Gynecol Investig** 1997 Mar–Apr;4(2):95–102

Estrogen induction of TGF–alpha is mediated by an estrogen response element composed of two imperfect palindromes. El–Ashry D, et al. **J Steroid Biochem Mol Biol** 1996 Nov; 59(3–4):261–9

Cytotoxic effects of recombinant adenovirus p53 and cell cycle regulator genes (p21 WAF1/CIP1 and p16CDKN4) in human prostate cancers. Gotoh A, et al. **J Urol** 1997 Aug;158(2):636–41

Enhanced expression of gamma–glutamylcysteine synthetase and glutathione S–transferase genes in cisplatin–resistant bladder cancer cells with multidrug resistance phenotype. Kotoh S, et al. **J Urol** 1997 Mar;157(3):1054–8

Expression of bcl–2 oncoprotein and p53 protein accumulation in bone marrow metastases of androgen independent prostate cancer [see comments] McDonnell TJ, et al. **J Urol** 1997 Feb;157(2):569–74. Comment in: J Urol 1997 Feb;157(2):575.

C-met proto-oncogene expression in benign and malignant human renal tissues. Pisters LL, et al. **J Urol** 1997 Sep;158(3 Pt 1):724-8

Identification of genes coding for tumor antigens recognized by cytolytic T lymphocytes. De Plaen E, et al. **Methods** 1997 Jun;12(2):125-42 (85 ref.)

Aberrant silencing of the CpG island-containing human O6-methylguanine DNA methyltransferase gene is associated with the loss of nucleosome-like positioning. Patel SA, et al. **Mol Cell Biol** 1997 Oct;17(10):5813-22

Interference with the expression of a novel human polycomb protein, hPc2, results in cellular transformation and apoptosis. Satijn DP, et al. **Mol Cell Biol** 1997 Oct; 17(10):6076-86

bic, a novel gene activated by proviral insertions in avian leukosis virus-induced lymphomas, is likely to function through its noncoding RNA. Tam W, et al. **Mol Cell Biol** 1997 Mar;17(3):1490-502

A transcriptional enhancer required for the differential expression of the human estrogen receptor in breast cancers. Tang Z, et al. **Mol Cell Biol** 1997 Mar; 17(3):1274-80

Androgen receptor mutations in prostate cancer. Barrack ER. **Mt Sinai J Med** 1996 Oct-Nov;63(5-6):403-12 (61 ref.)

Perturbing gene expression with oligodeoxynucleotides: research and potential therapeutic applications. Gewirtz AM. **Mt Sinai J Med** 1996 Oct-Nov;63(5-6):372-80 (14 ref.)

Targeting gene expression to hypoxic tumor cells. Dachs GU, et al. **Nat Med** 1997 May;3(5):515-20

Positive and negative regulatory elements in the murine p53 promoter. Roy B, et al. **Oncogene** 1996 Dec 5; 13(11):2359-66

Expression genetics in cancer: shifting the focus from DNA to RNA. Sager R. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):952-5 (56 ref.)

High-level expression of H-ras and c-myc oncogenes in mycoplasma-mediated malignant cell transformation. Zhang B, et al. **Proc Soc Exp Biol Med** 1997 Apr; 214(4):359-66

Regulation of glucagon-like peptide-I receptor expression and transcription by the protein kinase C pathway. Fehmann HC, et al. **Res Exp Med (Berl)** 1996;196(4):219-25

Significance of p53 overexpression in urinary bladder transitional cell carcinoma in situ before and after bacillus Calmette-Guérin treatment. Ick K, et al. **Urology** 1997 Apr; 49(4):541-6; discussion 546-7

Expression and sequence analysis of the p21(WAF1/CIP1) gene in renal cancers. Papandreou CN, et al. **Urology** 1997 Mar;49(3):481-6

[Paternal or maternal gene expression and tumorigenesis] Thibault C. **Contracept Fertil Sex** 1996 Jan;24(1):22 **(Fre)**

IMMUNOLOGY

Differential MAGE-1 gene expression in two variants of an erythroleukemic cell line (K562). Serrano A, et al. **Immunobiology** 1995 Nov;194(4-5):449-56

Ig VH1 genes expressed in B cell chronic lymphocytic leukemia exhibit distinctive molecular features. Johnson TA, et al. **J Immunol** 1997 Jan 1;158(1):235-46

TGF-beta suppresses IFN-gamma induction of class II MHC gene expression by inhibiting class II transactivator messenger RNA expression. Lee YJ, et al. **J Immunol** 1997 Mar 1;158(5):2065-75

Human colorectal cancer (CRC) antigen CO17-1A/GA733 encoded by adenovirus inhibits growth of established CRC cells in mice. Li W, et al. **J Immunol** 1997 Jul 15; 159(2):763-9

Interleukin-10 prevents dendritic cell accumulation and vaccination with granulocyte-macrophage colony-stimulating factor gene-modified tumor cells. Qin Z, et al. **J Immunol** 1997 Jul 15;159(2):770-6

Regulation of bcl-xL expression and Fas susceptibility in mouse B cells by CD40 ligation, surface IgM crosslinking and IL-4. Koizumi T, et al. **Mol Immunol** 1996 Nov; 33(16):1247-53

PHYSIOLOGY

Expression of MAGE and BAGE genes in Japanese breast cancers. Fujie T, et al. **Ann Oncol** 1997 Apr;8(4):369-72

The clinical role of MDR1 gene expression in human lung cancer. Oka M, et al. **Anticancer Res** 1997 Jan-Feb; 17(1B):721-4

Overexpression of cyclin D1 indicates a poor prognosis in squamous cell carcinoma of the head and neck. Michalides RJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):497-502

Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al. **Brain Pathol** 1996 Jul;6(3):217-23; discussion 23-4

Hierarchical modeling of gene-environment interactions: estimating NAT2 genotype-specific dietary effects on adenomatous polyps. Aragaki CC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):307-14

Tumor inhibitory activity of anti-ras ribozymes delivered by retroviral gene transfer. Li M, et al. **Cancer Gene Ther** 1996 Jul-Aug;3(4):221-9

Modulation of tumor cell gene expression and phenotype by the organ-specific metastatic environment. Radinsky R. **Cancer Metastasis Rev** 1995 Dec;14(4):323-38 (142 ref.)

Activation of tumor suppressor genes in nontumorigenic revertants of the HeLa cervical carcinoma cell line. Boylan MO, et al. **Cell Growth Differ** 1996 Jun;7(6):725-35

Characterization of platelet-derived growth factor (PDGF) action on a mouse neuroblastoma cell line, NB41, by introduction of an antisense PDGF beta-receptor RNA. Funa K, et al. **Cell Growth Differ** 1997 Aug;8(8):861-9

A role for insulin-like growth factor binding protein 5 in the antiproliferative action of the antiestrogen ICI 182780. Huynh H, et al. **Cell Growth Differ** 1996 Nov;7(11):1501-6

Effect of decreased fte-1 gene expression on protein synthesis, cell growth, and transformation. Kho CJ, et al. **Cell Growth Differ** 1996 Sep;7(9):1157-66

Nitric oxide-releasing agents and cGMP analogues inhibit murine erythroleukemia cell differentiation and suppress erythroid-specific gene expression: correlation with decreased DNA binding of NF-E2 and altered c-myb mRNA expression. Suhasini M, et al. **Cell Growth Differ** 1995 Dec;6(12):1559-66

BRCA1 expression is induced before DNA synthesis in both normal and tumor-derived breast cells. Vaughn JP, et al. **Cell Growth Differ** 1996 Jun;7(6):711-5

Use of internally controlled reverse transcriptase-polymerase chain reaction for absolute quantitation of individual multidrug resistant gene transcripts in tissue samples. Zhang F, et al. **Electrophoresis** 1996 Jan;17(1):255-60

Cytokeratin 18 expression in squamous cell carcinoma of the head and neck. Balm AJ, et al. **Eur Arch Otorhinolaryngol** 1996;253(4-5):227-33

Induction of metalloproteinase (MMP1) expression by epidermal growth factor (EGF) receptor stimulation and serum deprivation in human breast tumour cells. Nutt JE, et al. **Eur J Cancer** 1996 Nov;32A(12):2127-35

Overexpression of the oncogene c-erbB-2 (HER2/neu) in ovarian cancer: a new prognostic factor. Meden H, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):173-9 (36 ref.)

Expression of alpha 2,8-sialyltransferase (GD3 synthase) gene in human cancer cell lines: high level expression in melanomas and up-regulation in activated T lymphocytes. Yamashiro S, et al. **Glycoconj J** 1995 Dec;12(6):894-900

Binding of MAR-DNA elements by mutant p53: possible implications for its oncogenic functions. Deppert W. **J Cell Biochem** 1996 Aug;62(2):172-80 (42 ref.)

Overexpression of protein kinase FA/GSK-3 alpha (a proline-directed protein kinase) correlates with human hepatoma dedifferentiation/progression. Yang SD, et al. **J Cell Biochem** 1996 May;61(2):238-45

Association of protein kinase FA/GSK-3alpha (a proline-directed kinase and a regulator of protooncogenes) with human cervical carcinoma dedifferentiation/progression. Yang SD, et al. **J Cell Biochem** 1995 Oct;59(2):143-50

Growth-inhibitory activity and downregulation of the class II tumor-suppressor gene H-rev107 in tumor cell lines and experimental tumors. Sers C, et al. **J Cell Biol** 1997 Feb 24;136(4):935-44

Expression patterns of the p53 tumor suppressor gene and the mdm2 proto-oncogene in human meningiomas. Pykett MJ, et al. **J Neurooncol** 1997 Mar;32(1):39-44

Prognostic factors in malignant glioma: influence of the overexpression of oncogene and tumor-suppressor gene products on survival. Rainov NG, et al. **J Neurooncol** 1997 Oct;35(1):13-28

Correlation of bcl-2 with P-glycoprotein expression in chronic lymphocytic leukaemia and other haematological neoplasms but of neither marker with ex vivo chemosensitivity or patient survival. Bosanquet AG, et al. **Leuk Lymphoma** 1996 Dec;24(1-2):141-7

Expression of BCR-ABL, E2A-PBX1, and MLL-AF4 fusion transcripts in newly diagnosed children with acute lymphoblastic leukemia: a Children's Cancer Group initiative. Gaynon PS, et al. **Leuk Lymphoma** 1997 Jun; 26(1-2):57-65

The involvement of the candidate proto-oncogene NFKB2/lyt-10 in lymphoid malignancies. Neri A, et al. **Leuk Lymphoma** 1996 Sep;23(1-2):43-8 (38 ref.)

Bcl-x gene expression in Hodgkin's disease. Schlaifer D, et al. **Leuk Lymphoma** 1996 Sep;23(1-2):143-6

Hormone-inducible genes in prostate cells. Averboukh L, et al. **Methods Mol Biol** 1997;85:163-72

Crosstalk during Ca2+-, cAMP-, and glucocorticoid-induced gene expression in lymphocytes. Dowd DR, et al. **Mol Cell Endocrinol** 1997 Apr 4; 128(1-2):29-37

Interleukin-2 (IL-2) and IL-6 regulate c-fos protooncogene expression in human pituitary adenoma explants. Pereda MP, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1-2):33-42

Interaction between estradiol and cAMP in the regulation of specific gene expression. el-Tanani MK, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1-2):71-7

Thymosin beta 15: a novel regulator of tumor cell motility upregulated in metastatic prostate cancer [see comments] Bao L, et al. **Nat Med** 1996 Dec;2(12):1322-8. Comment in: Nat Med 1996 Dec;2(12):1305-6.

A family of AP-2 proteins regulates c-erbB-2 expression in mammary carcinoma. Bosher JM, et al. **Oncogene** 1996 Oct 17;13(8):1701-7

Vascular endothelial growth factor/vascular permeability factor is an autocrine growth factor for AIDS-Kaposi sarcoma. Masood R, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):979-84

Expression and significance of tumoral suppressor p53 gene in lung adenocarcinomas. Cornianu M, et al. **Rom J Morphol Embryol** 1996 Jan-Jun;42(1-2):73-82

Thrombospondin-1 and transforming growth factor-beta 1 promote breast tumor cell invasion through up-regulation of the plasminogen/plasmin system. Albo D, et al. **Surgery** 1997 Aug;122(2):493-9; discussion 499-500

[An immunohistochemical study of the expression of the oncoprotein p53 in astrocytic gliomas of the cerebral hemispheres] Korshunov AG, et al. **Arkh Patol** 1996 Nov-Dec;58(6):37-42 (Eng. Abstr.) **(Rus)**

[Immunohistochemical study of oncogene c-erbb-2 expression and extracellular matrix proteins in breast cancer (various mechanisms of invasion)] Pozharisskiĭ KM, et al. **Arkh Patol** 1997 Jul-Aug;59(4):19-25 (Eng. Abstr.) **(Rus)**

[Cloning of the tag7 gene expressed in metastatic mouse tumors] Kustikova OS, et al. **Genetika** 1996 May; 32(5):621-8 (Eng. Abstr.) **(Rus)**

[The effect of the tumor suppressor p53 and its mutant forms on the differentiation and viability of K562 leukemic cells] Kremenetskaia OS, et al. **Tsitologiia** 1996;38(12):1280-93 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Effect of multiple, repeated doses of radioimmunotherapy on target antigen expression (breast MUC-1 mucin) in breast carcinomas. Peterson JA, et al. **Cancer Res** 1997 Mar 15;57(6):1103-8

Ultraviolet rays induced expression of lectins on the surface of a squamous carcinoma keratinocyte cell line. Condaminet B, et al. **Exp Cell Res** 1997 May 1; 232(2):216-24

Effect of radiation and paclitaxel on p53 expression in murine tumors sensitive or resistant to apoptosis induction. Saito Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):623-31

Gene expression in skin tumors induced in hairless mice by chronic exposure to ultraviolet B irradiation. Sato H, et al. **Photochem Photobiol** 1997 May;65(5):908-14

GENE EXPRESSION REGULATION, PLANT

Illuminating flowers: CONSTANS induces LEAFY expression. Blázquez MA. **Bioessays** 1997 Apr;19(4):277-9 (21 ref.)

The on and off of floral regulatory genes. Ma H. **Cell** 1997 Jun 13;89(6):821-4 (19 ref.)

A LEAFY co-regulator encoded by UNUSUAL FLORAL ORGANS. Lee I, et al. **Curr Biol** 1997 Feb 1;7(2):95-104

Loss of RNA editing of rps1 sequences in Oenothera mitochondria. Mundel C, et al. **Curr Genet** 1996 Nov; 30(5):455-60

Post-transcriptional gene silencing in plants. Depicker A, et al. **Curr Opin Cell Biol** 1997 Jun;9(3):373-82 (57 ref.)

Transcriptional activation of plant defense genes. Zhu Q, et al. **Curr Opin Genet Dev** 1996 Oct;6(5):624-30 (76 ref.)

Mechanical signals in plant development: a new method for single cell studies. Lynch TM, et al. **Dev Biol** 1997 Jan 15;181(2):246-56

The SAR1 gene of Arabidopsis acts downstream of the AXR1 gene in auxin response. Cernac A, et al. **Development** 1997 Apr;124(8):1583-91

Multiple interactions amongst floral homeotic MADS box proteins. Davies B, et al. **EMBO J** 1996 Aug 15; 15(16):4330-43

High level transcription of a member of a repeated gene family confers dehydration tolerance to callus tissue of Craterostigma plantagineum. Furini A, et al. **EMBO J** 1997 Jun;16(12):3599-608

The two RNA polymerases encoded by the nuclear and the plastid compartments transcribe distinct groups of genes in tobacco plastids. Hajdukiewicz PT, et al. **EMBO J** 1997 Jul 1;16(13):4041-8

Phytochrome-regulated repression of gene expression requires calcium and cGMP. Neuhaus G, et al. **EMBO J** 1997 May 15;16(10):2554-64

Structure and regulation of ferredoxin-dependent glutamase synthase from Arabidopsis thaliana. Cloning of cDNA expression in different tissues of wild-type and gltS mutant strains, and light induction. Suzuki A, et al. **Eur J Biochem** 1997 Feb 1;243(3):708-18

Myrosinase-binding proteins are derived from a large wound-inducible and repetitive transcript. Taipalensuu J, et al. **Eur J Biochem** 1997 Feb 1;243(3):605-11

Ozone stress modulates amine oxidase and lipoxygenase expression in lentil (Lens culinaris) seedlings. Maccarrone M, et al. **FEBS Lett** 1997 May 19;408(2):241-4

The plant homologue of the defender against apoptotic death gene is down-regulated during senescence of flower petals. Orzáez D, et al. **FEBS Lett** 1997 Mar 10;404(2-3):275-8

Characterization and gene expression of an annexin during fruit development in Capsicum annuum. Proust J, et al. **FEBS Lett** 1996 Apr 1;383(3):208-12

Differential expression of genes coding for ABC transporters after treatment of Arabidopsis thaliana with xenobiotics. Tommasini R, et al. **FEBS Lett** 1997 Jul 14;411(2-3):206-10

Iron triggers a rapid induction of ascorbate peroxidase gene expression in Brassica napus. Vansuyt G, et al.

FEBS Lett 1997 Jun 30;410(2-3):195-200

A 45-bp proximal region containing AACA and GCN4 motif is sufficient to confer endosperm-specific expression of the rice storage protein glutelin gene, GluA-3. Yoshihara T, et al. **FEBS Lett** 1996 Apr 1;383(3):213-8

The regulation and function of tobacco superoxide dismutases. Van Camp W, et al. **Free Radic Biol Med** 1997; 23(3):515-20 (44 ref.)

Purification and cDNA cloning of maize HMGd reveal a novel plant chromosomal HMG-box protein with sequence similarity to HMGa. Grasser KD, et al. **Gene** 1997 May 6;190(2):303-7

A novel leaf-specific myb-related protein with a single binding repeat. Kirik V, et al. **Gene** 1996 Dec 12; 183(1-2):109-13

Genomic structure and expression analyses of serine acetyltransferase gene in Citrullus vulgaris (watermelon). Saito K, et al. **Gene** 1997 Apr 11;189(1):57-63

Interactions among genes regulating ovule development in Arabidopsis thaliana. Baker SC, et al. **Genetics** 1997 Apr; 145(4):1109-24

Interactions of liguleless1 and liguleless2 function during ligule induction in maize. Harper L, et al. **Genetics** 1996 Dec;144(4):1871-82

Excision patterns of Activator (Ac) and Dissociation (Ds) elements in Zea mays L.: implications for the regulation of transposition. Heinlein M. **Genetics** 1996 Dec; 144(4):1851-69

Extragenic suppressors of the Arabidopsis det1 mutant identify elements of flowering-time and light-response regulatory pathways. Pepper AE, et al. **Genetics** 1997 Apr; 145(4):1125-37

The location of genes governing long first internode of corn. Troyer AF. **Genetics** 1997 Apr;145(4):1149-54

A moderately repetitive DNA sequence in alfalfa is transcribed in a floral-specific manner. Xia X, et al. **Genome** 1996 Feb;39(1):9-16

Negative regulation of gene expression of a novel proline-, threonine-, and glycine-rich protein by water stress in Lycopersicon chilense. Yu LX, et al. **Genome** 1996 Dec; 39(6):1185-93

Possible role of calcium dependent protein phosphorylation in the modulation of wound induced HRGP gene activation in potatoes after gamma irradiation. Ussuf KK, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):484-90

Identification and characterization of a novel plant phospholipase D that requires polyphosphoinositides and submicromolar calcium for activity in Arabidopsis. Pappan K, et al. **J Biol Chem** 1997 Mar 14;272(11):7048-54

The mechanism of GT element-mediated cell type-specific transcriptional control. Villain P, et al. **J Biol Chem** 1996 Dec 20;271(51):32593-8

Manipulation of host gene expression by root-knot nematodes. Bird DM. **J Parasitol** 1996 Dec;82(6):881-8 (56 ref.)

Rosetteness in Portulaca grandiflora: an altered genetic expression. Venu-Babu P, et al. **Mol Biol Rep** 1996; 23(2):119-21

Structure, hormonal regulation, and chromosomal location of genes encoding barley (1-->4)-beta-xylan endohydrolases. Banik M, et al. **Mol Gen Genet** 1997 Feb 20;253(5):599-608

Cycloheximide induces a subset of low temperature-inducible genes in maize. Berberich T, et al. **Mol Gen Genet** 1997 Apr 16;254(3):275-83

Expression of genes for a defensin and a proteinase inhibitor in specific areas of the shoot apex and the developing flower in tomato. Brandstädter J, et al. **Mol Gen Genet** 1996 Aug 27;252(1-2):146-54

Wound-inducible and organ-specific expression of ORF13 from Agrobacterium rhizogenes 8196 T-DNA in transgenic tobacco plants. Hansen G, et al. **Mol Gen Genet** 1997 Apr 16;254(3):337-43

Molecular cloning and characterization of cDNAs for anionic and neutral peroxidases from suspension-cultured-cells of sweet potato and their differential expression in response to stress. Huh GH, et al. **Mol Gen Genet** 1997 Jul; 255(4):382-91

Silencing of waxy genes in rice containing Wx transgenes. Itoh K, et al. **Mol Gen Genet** 1997 Jul;255(4):351-8

Evidence that the plastid signal and light operate via the same cis-acting elements in the promoters of nuclear genes for plastid proteins. Kusnetsov V, et al. **Mol Gen Genet** 1996 Oct 28;252(6):631-9

Root-specific expression of the LeRse-1 gene in tomato is induced by exposure of the shoot to light. Lauter FR. **Mol Gen Genet** 1996 Oct 28;252(6):751-4

An Hsp70 antisense gene affects the expression of HSP70/HSC70, the regulation of HSF, and the acquisition of thermotolerance in transgenic Arabidopsis thaliana. Lee JH, et al. **Mol Gen Genet** 1996 Aug 27;252(1-2):11-9

Reciprocal regulation of delta 1-pyrroline-5-carboxylate synthetase and proline dehydrogenase genes controls proline levels during and after osmotic stress in plants. Peng Z, et al. **Mol Gen Genet** 1996 Dec 13;253(3):334-41

Differential expression of two functional serine/threonine protein kinases from soybean that have an unusual acidic domain at the carboxy terminus. Yoon HW, et al. **Mol Gen Genet** 1997 Jul;255(4):359-71

Studies on the response of carrot cells to a Sclerotinia sclerotiorum elicitor: induction of the expression of an extracellular glycoprotein mRNA. Bertinetti C, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):658-63

Defense reaction in Medicago sativa: a gene encoding a class 10 PR protein is expressed in vascular bundles. Breda C, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):713-9

The Vicia faba leghemoglobin gene VfLb29 is induced in root nodules and in roots colonized by the arbuscular mycorrhizal fungus Glomus fasciculatum. Frühling M, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):124-31

Expression of cysteine protease genes in pea nodule development and senescence. Kardailsky IV, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):689-95

Activation of floral meristem identity genes in Arabidopsis. Simon R, et al. **Nature** 1996 Nov 7;384(6604):59-62

Conserved RY-repeats mediate transactivation of seed-specific promoters by the developmental regulator PvALF. Bobb AJ, et al. **Nucleic Acids Res** 1997 Feb 1; 25(3):641-7

Downregulation of ovule-specific MADS box genes from petunia results in maternally controlled defects in seed development. Colombo L, et al. **Plant Cell** 1997 May; 9(5):703-15

Eyes off transcription! The wonderful world of post-transcriptional regulation. Gallie DR, et al. **Plant Cell** 1997 May;9(5):667-73

CHL1 encodes a component of the low-affinity nitrate uptake system in Arabidopsis and shows cell type-specific expression in roots. Huang NC, et al. **Plant Cell** 1996 Dec; 8(12):2183-91

Environmental and genetic effects on circadian clock-regulated gene expression in Arabidopsis. Kreps JA, et al. **Plant Cell** 1997 Mar;9(3):297-304

Phytochrome A and phytochrome B mediate the hypocotyl-specific downregulation of TUB1 by light in arabidopsis. Leu WM, et al. **Plant Cell** 1995 Dec; 7(12):2187-96

Identification of a meristem L1 layer-specific gene in Arabidopsis that is expressed during embryonic pattern formation and defines a new class of homeobox genes. Lu P, et al. **Plant Cell** 1996 Dec;8(12):2155-68

det1, cop1, and cop9 mutations cause inappropriate expression of several gene sets. Mayer R, et al. **Plant Cell** 1996 Nov;8(11):1951-9

Pathogen-induced systemic activation of a plant defensin gene in Arabidopsis follows a salicylic acid-independent pathway. Penninckx IA, et al. **Plant Cell** 1996 Dec; 8(12):2309-23

Divergence of function and regulation of class B floral organ identity genes. Samach A, et al. **Plant Cell** 1997 Apr; 9(4):559-70

Molecular dissection of the AGAMOUS control region shows that cis elements for spatial regulation are located intragenically. Sieburth LE, et al. **Plant Cell** 1997 Mar; 9(3):355-65

The sink-specific and stress-regulated Arabidopsis STP4 gene: enhanced expression of a gene encoding a monosaccharide transporter by wounding, elicitors, and pathogen challenge. Truernit E, et al. **Plant Cell** 1996 Dec; 8(12):2169-82

A Myb-related transcription factor is involved in the phytochrome regulation of an Arabidopsis Lhcb gene. Wang ZY, et al. **Plant Cell** 1997 Apr;9(4):491-507

Herbicide safener-inducible gene expression in Arabidopsis thaliana. De Veylder L, et al. **Plant Cell Physiol** 1997 May; 38(5):568-77

Temporal and spatial pattern of expression of the pea phenylalanine ammonia-lyase gene1 promoter in transgenic tobacco. Kawamata S, et al. **Plant Cell Physiol** 1997 Jul; 38(7):792-803

Cloning of the pumpkin ascorbate oxidase gene and analysis of a cis-acting region involved in induction by auxin. Kisu Y, et al. **Plant Cell Physiol** 1997 May;38(5):631-7

Differential expression of CuZn- and Fe-superoxide dismutase genes of tobacco during development, oxidative stress, and hormonal treatments. Kurepa J, et al. **Plant Cell Physiol** 1997 Apr;38(4):463-70

Methyl jasmonate induces an O-methyltransferase in barley. Lee JE, et al. **Plant Cell Physiol** 1997 Jul;38(7):851-62

Gene expression during cold acclimation in strawberry. NDong C, et al. **Plant Cell Physiol** 1997 Jul;38(7):863-70

Isolation and characterization of cDNA clones with enhanced expression in tobacco plants expressing the rice homeobox gene, OSH1. Tamaoki M, et al. **Plant Cell Physiol** 1997 May;38(5):638-42

The LS locus of pea encodes the gibberellin biosynthesis enzyme ent-kaurene synthase A. Ait-Ali T, et al. **Plant J** 1997 Mar;11(3):443-54

The plant 2-Cys peroxiredoxin BAS1 is a nuclear-encoded chloroplast protein: its expressional regulation, phylogenetic origin, and implications for its specific physiological function in plants. Baier M, et al. **Plant J** 1997 Jul;12(1):179-90

fhy1 defines a branch point in phytochrome A signal transduction pathways for gene expression. Barnes SA, et al. **Plant J** 1996 Dec;10(6):1155-61

Maturation-specific translational enhancement mediated by the 5'-UTR of a late pollen transcript. Bate N, et al. **Plant J** 1996 Oct;10(4):613-23

Improved ballistic transient transformation conditions for tomato fruit allow identification of organ-specific contributions of I-box and G-box to the RBCS2 promoter activity. Baum K, et al. **Plant J** 1997 Aug;12(2):463-9

Intron sequences are involved in the plastid- and light-dependent expression of the spinach PsaD gene. Bolle C, et al. **Plant J** 1996 Nov;10(5):919-24

Functional analysis of the Arabidopsis thaliana SBP-box gene SPL3: a novel gene involved in the floral transition. Cardon GH, et al. **Plant J** 1997 Aug;12(2):367-77

A carbonic anhydrase gene is induced in the nodule primordium and its cell-specific expression is controlled by the presence of Rhizobium during development. Coba de la Peña T, et al. **Plant J** 1997 Mar;11(3):407-20

Induction and expression of seed-specific promoters in Arabidopsis embryo-defective mutants. Devic M, et al. **Plant J** 1996 Feb;9(2):205-15

Fluorescent imaging of GUS activity and RT-PCR analysis of gene expression in the shoot apical meristem. Fleming AJ, et al. **Plant J** 1996 Oct;10(4):745-54

hrp gene-dependent induction of hin1: a plant gene activated rapidly by both harpins and the avrPto gene-mediated signal. Gopalan S, et al. **Plant J** 1996 Oct;10(4):591-600

Cell-cycle-regulated transcription of A- and B-type plant cyclin genes in synchronous cultures. Ito M, et al. **Plant J** 1997 May;11(5):983-92

Tissue-specific expression of Arabidopsis AKT1 gene is consistent with a role in K+ nutrition. Lagarde D, et al. **Plant J** 1996 Feb;9(2):195-203

Developmental regulation of a plant encoded inhibitor of eukaryotic initiation factor 2 alpha phosphorylation. Langland JO, et al. **Plant J** 1997 Aug;12(2):393-400

Light modulates the spatial patterns of 3-hydroxy-3-methylglutaryl coenzyme A reductase gene expression in Arabidopsis thaliana. Learned RM, et al. **Plant J** 1997 Mar;11(3):499-511

Li(+)-regulated 1-aminocyclopropane-1-carboxylate synthase gene expression in Arabidopsis thaliana. Liang X, et al. **Plant J** 1996 Dec;10(6):1027-36

Nitrogen and hormonal responsiveness of the 22 kDa alpha-zein and b-32 genes in maize endosperm is displayed in the absence of the transcriptional regulator Opaque-2. Müller M, et al. **Plant J** 1997 Aug;12(2):281-91

A rice bZIP protein, designated OSBZ8, is rapidly induced by abscisic acid. Nakagawa H, et al. **Plant J** 1996 Feb; 9(2):217-27

Possible involvement of differential splicing in regulation of the activity of Arabidopsis ANP1 that is related to mitogen-activated protein kinase kinase kinases (MAPKKKs). Nishihama R, et al. **Plant J** 1997 Jul; 12(1):39-48

ZmEsr, a novel endosperm-specific gene expressed in a restricted region around the maize embryo. Opsahl-Ferstad HG, et al. **Plant J** 1997 Jul;12(1):235-46

Gene silencing mediated by promoter homology occurs at the level of transcription and results in meiotically heritable alterations in methylation and gene activity. Park YD, et al. **Plant J** 1996 Feb;9(2):183-94

Intra- and extracellular lipid composition and associated gene expression patterns during pollen development in Brassica napus. Piffanelli P, et al. **Plant J** 1997 Mar;11(3):549-62

Introns act post-transcriptionally to increase expression of the Arabidopsis thaliana tryptophan pathway gene PAT1. Rose AB, et al. **Plant J** 1997 Mar;11(3):455-64

Identification of a methyl jasmonate-responsive region in the promoter of a lipoxygenase 1 gene expressed in barley grain. Rouster J, et al. **Plant J** 1997 Mar;11(3):513-23

Identification of a salicylic acid-responsive element in the promoter of the tobacco pathogenesis-related beta-1,3-glucanase gene, PR-2d. Shah J, et al. **Plant J** 1996 Dec;10(6):1089-101

Developmental regulation of the gibberellin biosynthetic gene GA1 in Arabidopsis thaliana. Silverstone AL, et al. **Plant J** 1997 Jul;12(1):9-19

Independent modulation of Arabidopsis thaliana polyubiquitin mRNAs in different organs and in response to environmental changes. Sun CW, et al. **Plant J** 1997 May;11(5):1017-27

In vitro binding of the tomato bZIP transcriptional activator VSF-1 to a regulatory element that controls xylem-specific gene expression. Torres-Schumann S, et al. **Plant J** 1996 Mar;9(3):283-96

A transcriptional activation domain of ATMYB2, a drought-inducible Arabidopsis Myb-related protein. Urao T, et al. **Plant J** 1996 Dec;10(6):1145-8

Premature nonsense codons decrease the stability of phytohemagglutinin mRNA in a position-dependent manner. van Hoof A, et al. **Plant J** 1996 Sep;10(3):415-24

A homolog of the Arabidopsis thaliana ERS gene is actively regulated in Rumex palustris upon flooding. Vriezen WH, et al. **Plant J** 1997 Jun;11(6):1265-71

Identification, subcellular localization, and developmental studies of oleosins in the anther of Brassica napus. Wang TW, et al. **Plant J** 1997 Mar;11(3):475-87

Developmental regulation of the PsbS gene expression in spinach seedlings: the role of phytochrome. Adamska I, et al. **Plant Mol Biol** 1996 Jul;31(4):793-802

Characterization of two cDNA clones for mRNAs expressed during ripening of melon (Cucumis melo L.) fruits. Aggelis A, et al. **Plant Mol Biol** 1997 Jan;33(2):313-22

Seasonal expression of a dehydrin gene in sibling deciduous and evergreen genotypes of peach (Prunus persica [L.] Batsch). Artlip TS, et al. **Plant Mol Biol** 1997 Jan; 33(1):61-70

A drought-stress-inducible histone gene in Arabidopsis thaliana is a member of a distinct class of plant linker histone variants. Ascenzi R, et al. **Plant Mol Biol** 1997 Jul;

34(4):629–41
Regulated expression of a wheat germin gene in tobacco: oxalate oxidase activity and apoplastic localization of the heterologous protein. Berna A, et al. **Plant Mol Biol** 1997 Feb;33(3):417–29
Regulation of gene expression in plant mitochondria. Binder S, et al. **Plant Mol Biol** 1996 Oct;32(1–2):303–14 (78 ref.)
An endo–1,4–beta–glucanase expressed at high levels in rapidly expanding tissues. Brummell DA, et al. **Plant Mol Biol** 1997 Jan;33(1):87–95
A novel gene whose expression in Medicago truncatula roots is suppressed in response to colonization by vesicular–arbuscular mycorrhizal (VAM) fungi and to phosphate nutrition. Burleigh SH, et al. **Plant Mol Biol** 1997 May;34(2):199–208
Expression of arginine decarboxylase in seedlings of indica rice (Oryza sativa L.) cultivars as affected by salinity stress. Chattopadhyay MK, et al. **Plant Mol Biol** 1997 Jun; 34(3):477–83
Promoter elements controlling developmental and environmental regulation of a tobacco ribosomal protein gene L34. Dai Z, et al. **Plant Mol Biol** 1996 Dec; 32(6):1055–65
Melon ascorbate oxidase: cloning of a multigene family, induction during fruit development and repression by wounding. Diallinas G, et al. **Plant Mol Biol** 1997 Jul; 34(5):759–70
GUS expression in Arabidopsis directed by 5' regions of the pea metallothionein–like gene PsMTA. Fordham–Skelton AP, et al. **Plant Mol Biol** 1997 Jul;34(4):659–68
cDNA structure and expression patterns of a low–temperature–specific wheat gene tacr7. Gana JA, et al. **Plant Mol Biol** 1997 Jul;34(4):643–50
Expression of a novel–type small proline–rich protein gene of alfalfa is induced by 2,4–dichlorophenoxiacetic acid in dedifferentiated callus cells. Györgyey J, et al. **Plant Mol Biol** 1997 Jul;34(4):593–602
A new Arabidopsis nucleic–acid–binding protein gene is highly expressed in dividing cells during development. Hecht V, et al. **Plant Mol Biol** 1997 May;34(1):119–24
AtPLC2, a gene encoding phosphoinositide–specific phospholipase C, is constitutively expressed in vegetative and floral tissues in Arabidopsis thaliana. Hirayama T, et al. **Plant Mol Biol** 1997 May;34(1):175–80
Retrotransposons of rice: their regulation and use for genome analysis. Hirochika H. **Plant Mol Biol** 1997 Sep; 35(1–2):231–40 (74 ref.)
Characterization of a tobacco extensin gene and regulation of its gene family in healthy plants and under various stress conditions. Hirsinger C, et al. **Plant Mol Biol** 1997 Jan; 33(2):279–89
The wheat protein kinase gene, TaPK3, of the PKABA1 subfamily is differentially regulated in greening wheat seedlings. Holappa LD, et al. **Plant Mol Biol** 1997 Mar; 33(5):935–41
Regulation of an embryogenic carrot gene (DC 2.15) and identification of its active promoter sites. Holk A, et al. **Plant Mol Biol** 1996 Sep;31(6):1153–61
Promoter sequences from two different Brassica napus tapetal oleosin–like genes direct tapetal expression of beta–glucuronidase in transgenic Brassica plants. Hong HP, et al. **Plant Mol Biol** 1997 Jun;34(3):549–55
Identification of an immediate–early salicylic acid–inducible tobacco gene and characterization of induction by other compounds. Horvath DM, et al. **Plant Mol Biol** 1996 Aug; 31(5):1061–72
Cloning and expression analysis of a gene that shows developmental regulation upon tuberization in potato. Jackson S, et al. **Plant Mol Biol** 1997 Jan;33(1):169–74
Transcription of CABII is regulated by the biological clock in Chlamydomonas reinhardtii. Jacobshagen S, et al. **Plant Mol Biol** 1996 Sep;31(6):1173–84
Molecular characterization of L2 lipoxygenase from maize embryos. Jensen AB, et al. **Plant Mol Biol** 1997 Mar; 33(4):605–14
Sense and antisense transcripts of the maize MuDR regulatory transposon localized by in situ hybridization. Joanin P, et al. **Plant Mol Biol** 1997 Jan;33(1):23–36
Cloning and characterization of tomato leaf senescence–related cDNAs. John I, et al. **Plant Mol Biol** 1997 Mar;33(4):641–51
Chalcone synthase cosuppression phenotypes in petunia flowers: comparison of sense vs. antisense constructs and single–copy vs. complex T–DNA sequences. Jorgensen RA, et al. **Plant Mol Biol** 1996 Aug;31(5):957–73
A chloroplast derived trnH gene is expressed in the mitochondrial genome of gramineous plants. Kanno A, et al. **Plant Mol Biol** 1997 May;34(2):353–6
Structural organization, expression and promoter activity of a cold–stress–inducible gene of potato (Solanum tuberosum L.) Kirch HH, et al. **Plant Mol Biol** 1997 Mar;33(5):897–909
HMG–CoA reductase gene families that differentially accumulate transcripts in potato tubers are developmentally expressed in floral tissues. Korth KL, et al. **Plant Mol Biol** 1997 Feb;33(3):545–51
Optimizing expression of transgenes with an emphasis on post–transcriptional events. Koziel MG, et al. **Plant Mol Biol** 1996 Oct;32(1–2):393–405 (80 ref.)
Expression of a wheat ADP–glucose pyrophosphorylase gene during development of normal and water–stress–affected anthers. Lalonde S, et al. **Plant Mol Biol** 1997 Jun; 34(3):445–53
Chromoplast development in ripening tomato fruit: identification of cDNAs for chromoplast–targeted proteins and characterization of a cDNA encoding a plastid–localized low–molecular–weight heat shock protein. Lawrence SD, et al. **Plant Mol Biol** 1997 Feb; 33(3):483–92
Effects of chilling on the expression of ethylene biosynthetic genes in Passe–Crassane pear (Pyrus communis L.) fruits. Lelièvre JM, et al. **Plant Mol Biol** 1997 Mar;33(5):847–55
Differential expression of TPS11, a phosphate starvation–induced gene in tomato. Liu C, et al. **Plant Mol Biol** 1997 Mar;33(5):867–74
Differential and wound–inducible expression of 1–aminocyclopropane–1–carboxylate oxidase genes in sunflower seedlings. Liu JH, et al. **Plant Mol Biol** 1997 Aug;34(6):923–33
Potato SNF1–related protein kinase: molecular cloning, expression analysis and peptide kinase activity measurements. Man AL, et al. **Plant Mol Biol** 1997 May; 34(1):31–43
A promoter directing epidermal expression in transgenic alfalfa. Mandaci S, et al. **Plant Mol Biol** 1997 Aug; 34(6):961–5
Molecular characterization and promoter analysis of the maize cytosolic glyceraldehyde 3–phosphate dehydrogenase gene family and its expression during anoxia. Manjunath S, et al. **Plant Mol Biol** 1997 Jan; 33(1):97–112
Cloning, molecular characterization and expression pattern of a strawberry ripening–specific cDNA with sequence homology to pectate lyase from higher plants. Medina–Escobar N, et al. **Plant Mol Biol** 1997 Aug; 34(6):867–77
Differential expression of pathogen–responsive genes encoding two types of glycine–rich proteins in barley. Molina A, et al. **Plant Mol Biol** 1997 Mar;33(5):803–10
Regulation of two loblolly pine (Pinus taeda L.) isocitrate lyase genes in megagametophytes of mature and stratified seeds and during postgerminative growth. Mullen RT, et al. **Plant Mol Biol** 1997 Mar;33(4):593–604
Ethylene receptor expression is regulated during fruit ripening, flower senescence and abscission. Payton S, et al. **Plant Mol Biol** 1996 Sep;31(6):1227–31
G2–and early–M–specific expression of the NTCYC1 cyclin gene in Nicotiana tabacum cells. Qin LX, et al. **Plant Mol Biol** 1996 Dec;32(6):1093–101
Identification of a light–regulated MYB gene from an Arabidopsis transcription factor gene collection. Quaedvlieg N, et al. **Plant Mol Biol** 1996 Dec;32(5):987–93
Post–transcriptional regulation of chloroplast gene expression in Chlamydomonas reinhardtii. Rochaix JD. **Plant Mol Biol** 1996 Oct;32(1–2):327–41 (94 ref.)
Regulation of gene expression in chloroplasts of higher plants. Sugita M, et al. **Plant Mol Biol** 1996 Oct; 32(1–2):315–26 (89 ref.)
Sequence homology requirements for transcriptional silencing of 35S transgenes and post–transcriptional silencing of nitrite reductase (trans)genes by the tobacco 271 locus. Thierry D, et al. **Plant Mol Biol** 1996 Dec; 32(6):1075–83
Tetracycline–dependent activation of an upstream promoter reveals transcriptional interference between tandem genes within T–DNA in tomato. Thompson AJ, et al. **Plant Mol Biol** 1997 Jul;34(4):687–92
New potential markers of in vitro tomato morphogenesis identified by mRNA differential display. Torelli A, et al. **Plant Mol Biol** 1996 Dec;32(5):891–900
Expression of an isoflavone reductase–like gene enhanced by pollen tube growth in pistils of Solanum tuberosum. van Eldik GJ, et al. **Plant Mol Biol** 1997 Mar;33(5):923–9
Developmental expression and regulation by light of two closely related beta–tubulin genes in Lupinus albus. Vassilevskaia TD, et al. **Plant Mol Biol** 1996 Dec; 32(6):1185–9
Comparative gene expression in sexual and apomictic ovaries of Pennisetum ciliare (L.) Link. Vielle–Calzada JP, et al. **Plant Mol Biol** 1996 Dec;32(6):1085–92
ACGT and vicilin core sequences in a promoter domain required for seed–specific expression of a 2S storage protein gene are recognized by the opaque–2 regulatory protein. Vincentz M, et al. **Plant Mol Biol** 1997 Aug;34(6):879–89
Phytohormone–regulated beta–amylase gene expression in rice. Wang SM, et al. **Plant Mol Biol** 1996 Aug;31(5):975–82
Expression of ethylene biosynthetic genes in Actinidia chinensis fruit. Whittaker DJ, et al. **Plant Mol Biol** 1997 May;34(1):45–55
Ethylene control of E4 transcription during tomato fruit ripening involves two cooperative cis elements. Xu R, et al. **Plant Mol Biol** 1996 Sep;31(6):1117–27
Cloning and expression of an Arabidopsis gene encoding a putative peroxisomal ascorbate peroxidase. Zhang H, et al. **Plant Mol Biol** 1997 Aug;34(6):967–71
Both 5' and 3' sequences of maize adh1 mRNA are required for enhanced translation under low–oxygen conditions. Bailey–Serres J, et al. **Plant Physiol** 1996 Oct;112(2):685–95
Cinnamate–4–hydroxylase expression in Arabidopsis. Regulation in response to development and the environment. Bell–Lelong DA, et al. **Plant Physiol** 1997 Mar;113(3):729–38
Differential expression of soybean cysteine proteinase inhibitor genes during development and in response to wounding and methyl jasmonate. Botella MA, et al. **Plant Physiol** 1996 Nov;112(3):1201–10
Tissue–specific expression and promoter analysis of the tobacco ltp1 gene. Canevascini S, et al. **Plant Physiol** 1996 Oct;112(2):513–24
The promoter for tomato 3–hydroxy–3–methylglutaryl coenzyme A reductase gene 2 has unusual regulatory elements that direct high–level expression. Daraselia ND, et al. **Plant Physiol** 1996 Oct;112(2):727–33
hcf5, a nuclear photosynthetic electron transport mutant of Arabidopsis thaliana with a pleiotropic effect on chloroplast gene expression. Dinkins RD, et al. **Plant Physiol** 1997 Apr;113(4):1023–31
Molecular cloning of mannose–6–phosphate reductase and its developmental expression in celery. Everard JD, et al. **Plant Physiol** 1997 Apr;113(4):1427–35
A gene encoding a chloroplast–targeted lipoxygenase in tomato leaves is transiently induced by wounding, systemin, and methyl jasmonate. Heitz T, et al. **Plant Physiol** 1997 Jul;114(3):1085–93
Identification of a receptor–like protein kinase gene rapidly induced by abscisic acid, dehydration, high salt, and cold treatments in Arabidopsis thaliana. Hong SW, et al. **Plant Physiol** 1997 Apr;113(4):1203–12
Developmental regulation of pyrroline–5–carboxylate reductase gene expression in Arabidopsis. Hua XJ, et al. **Plant Physiol** 1997 Aug;114(4):1215–24
Sequences necessary for nitrate–dependent transcription of Arabidopsis nitrate reductase genes. Hwang CF, et al. **Plant Physiol** 1997 Mar;113(3):853–62
Evidence for transcriptional regulation of plastid photosynthesis genes in Arabidopsis thaliana roots. Isono K, et al. **Plant Physiol** 1997 Jun;114(2):623–30
Three different polygalacturonases are expressed in tomato leaf and flower abscission, each with a different temporal expression pattern. Kalaitzis P, et al. **Plant Physiol** 1997 Apr;113(4):1303–8
Divergent fructokinase genes are differentially expressed in tomato. Kanayama Y, et al. **Plant Physiol** 1997 Apr; 113(4):1379–84
Novel, highly expressed late nodulin gene (LjNOD16) from Lotus japonicus. Kapranov P, et al. **Plant Physiol** 1997 Apr;113(4):1081–90
A complement of ten essential and pleiotropic arabidopsis COP/DET/FUS genes is necessary for repression of photomorphogenesis in darkness. Kwok SF, et al. **Plant Physiol** 1996 Mar;110(3):731–42
Differential transcription of phycobiliprotein components in Rhodella violacea. Light and nitrogen effects on the 33–kilodalton phycoerythrin rod linker polypeptide, phycocyanin, and phycoerythrin transcripts. Lichtlé C, et al. **Plant Physiol** 1996 Nov;112(3):1045–54
Isolation and characterization of a diverse set of genes from carrot somatic embryos. Lin X, et al. **Plant Physiol** 1996 Nov;112(3):1365–74
Proline accumulation and salt–stress–induced gene expression in a salt–hypersensitive mutant of Arabidopsis. Liu J, et al. **Plant Physiol** 1997 Jun;114(2):591–6
Identification of an Arabidopsis thaliana ribulose–1,5–bisphosphate carboxylase/oxygenase activase (RCA) minimal promoter regulated by light and the circadian clock. Liu Z, et al. **Plant Physiol** 1996 Sep; 112(1):43–51
A nitrate–inducible ferredoxin in maize roots. Genomic organization and differential expression of two nonphotosynthetic ferredoxin isoproteins. Matsumura T, et al. **Plant Physiol** 1997 Jun;114(2):653–60
Negative regulation in the expression of a sugar–inducible gene in Arabidopsis thaliana. A recessive mutation causing enhanced expression of a gene for beta–amylase. Mita S, et al. **Plant Physiol** 1997 Jun;114(2):575–82
Sugar regulates mRNA abundance of H(+)–ATPase gene family members in tomato. Mito N, et al. **Plant Physiol** 1996 Nov;112(3):1229–36
Isolation of a cDNA and a genomic clone encoding cinnamate 4–hydroxylase from Arabidopsis and its expression manner in planta. Mizutani M, et al. **Plant Physiol** 1997 Mar;113(3):755–63
Differential expression and properties of starch branching enzyme isoforms in developing wheat endosperm. Morell MK, et al. **Plant Physiol** 1997 Jan;113(1):201–8
The rab16B promoter of rice contains two distinct abscisic acid–responsive elements. Ono A, et al. **Plant Physiol** 1996 Oct;112(2):483–91
Characterization of flavonol synthase and leucoanthocyanidin dioxygenase genes in Arabidopsis. Further evidence for differential regulation of "early" and "late" genes. Pelletier MK, et al. **Plant Physiol** 1997 Apr; 113(4):1437–45
Tissue–specific and developmental regulation of cotton gene FbL2A. Demonstration of promoter activity in transgenic plants. Rinehart JA, et al. **Plant Physiol** 1996 Nov; 112(3):1331–41
Expression patterns and promoter activity of the cold–regulated gene ci21A of potato. Schneider A, et al. **Plant Physiol** 1997 Feb;113(2):335–45
Sex determination in dioecious Silene latifolia. Effects of the Y chromosome and the parasitic smut fungus (Ustilago violacea) on gene expression during flower development. Scutt CP, et al. **Plant Physiol** 1997 Jul;114(3):969–79
De novo purine synthesis in Arabidopsis thaliana. II. The PUR7 gene encoding 5'–phosphoribosyl–4–(N–succinocarboxamide)–5–

aminoimidazole synthetase is expressed in rapidly dividing tissues. Senecoff JF, et al. **Plant Physiol** 1996 Nov; 112(3):905–17

Subcellular localization of spinach cysteine synthase isoforms and regulation of their gene expression by nitrogen and sulfur. Takahashi H, et al. **Plant Physiol** 1996 Sep; 112(1):273–80

Light regulation of the abundance of mRNA encoding a nucleolin–like protein localized in the nucleoli of pea nuclei. Tong CG, et al. **Plant Physiol** 1997 Jun; 114(2):643–52

Tissue–specific activity of two manganese superoxide dismutase promoters in transgenic tobacco. Van Camp W, et al. **Plant Physiol** 1996 Oct;112(2):525–35

Lipoxygenase gene expression in the tobacco–Phytophthora parasitica nicotianae interaction. Véronési C, et al. **Plant Physiol** 1996 Nov;112(3):997–1004

Synthesis of small heat–shock proteins is part of the developmental program of late seed maturation. Wehmeyer N, et al. **Plant Physiol** 1996 Oct;112(2):747–57

The role of the COP/DET/FUS genes in light control of arabidopsis seedling development. Wei N, et al. **Plant Physiol** 1996 Nov;112(3):871–8 (46 ref.)

Induction of HSP70 and polyubiquitin expression associated with plant virus replication. Aranda MA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15289–93

Transcriptional analysis of nucleolar dominance in polyploid plants: biased expression/silencing of progenitor rRNA genes is developmentally regulated in Brassica. Chen ZJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3442–7

Characterization and developmental patterns of telomerase expression in plants. Fitzgerald MS, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14422–7

Stress signaling in plants: a mitogen–activated protein kinase pathway is activated by cold and drought. Jonak C, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11274–9

Rapid, transient, and highly localized induction of plastidial omega–3 fatty acid desaturase mRNA at fungal infection sites in Petroselinum crispum. Kirsch C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2079–84

Preferential expression of an ammonium transporter and of two putative nitrate transporters in root hairs of tomato. Lauter FR, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):8139–44

Integration of circadian and phototransduction pathways in the network controlling CAB gene transcription in Arabidopsis. Millar AJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15491–6

Multiple A–type cyclins express sequentially during the cell cycle in Nicotiana tabacum BY2 cells. Reichheld JP, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13819–24

Expression of a divergent expansin gene is fruit–specific and ripening–regulated [see comments] Rose JKC, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5955–60. Comment in: Proc Natl Acad Sci U S A 1997 May 27;94(11):5504–5.

A rice homeobox gene, OSH1, is expressed before organ differentiation in a specific region during early embryogenesis. Sato Y, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8117–22

RIGS (repeat–induced gene silencing) in Arabidopsis is transcriptional and alters chromatin configuration. Ye F, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10881–6

Transgenic male–sterile plant induced by an unedited atp9 gene is restored to fertility by inhibiting its expression with antisense RNA. Zabaleta E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11259–63

Promoter/leader deletion analysis and plant expression vectors with the figwort mosaic virus (FMV) full length transcript (FLt) promoter containing single or double enhancer domains. Maiti IB, et al. **Transgenic Res** 1997 Mar;6(2):143–56

Effects of seed–specific expression of a cytokinin biosynthetic gene on canola and tobacco phenotypes. Roeckel P, et al. **Transgenic Res** 1997 Mar;6(2):133–41

Tissue–specific expression in transgenic maize of four endosperm promoters from maize and rice. Russell DA, et al. **Transgenic Res** 1997 Mar;6(2):157–68

DRUG EFFECTS

Molecular cloning of ozone–inducible protein from Pinus sylvestris L. with high sequence similarity to vertebrate 3–hydroxy–3–methylglutaryl–CoA–synthase. Wegener A, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):247–52

Induction of cytochrome P450 genes by ethanol in maize. Potter S, et al. **Drug Metabol Drug Interact** 1995; 12(3–4):317–27

Salicylic acid–independent induction of pathogenesis–related protein transcripts by sugars is dependent on leaf developmental stage. Herbers K, et al. **FEBS Lett** 1996 Nov 18;397(2–3):239–44

Amino acid conjugates of jasmonic acid induce jasmonate–responsive gene expression in barley (Hordeum vulgare L.) leaves. Kramell R, et al. **FEBS Lett** 1997 Sep 8;414(2):197–202

Ozone stress modulates amine oxidase and lipoxygenase expression in lentil (Lens culinaris) seedlings. Maccarrone M, et al. **FEBS Lett** 1997 May 19;408(2):241–4

In seedlings of the heavy metal accumulator Brassica juncea Cu2+ differentially affects transcript amounts for gamma–glutamylcysteine synthetase (gamma–ECS) and metallothionein (MT2). Schäfer HJ, et al. **FEBS Lett** 1997 Mar 10;404(2–3):216–20

Cytokinin induction of RNA polymerase I transcription in Arabidopsis thaliana. Gaudino RJ, et al. **J Biol Chem** 1997 Mar 7;272(10):6799–804

CHRC, encoding a chromoplast–specific carotenoid–associated protein, is an early gibberellic acid–responsive gene. Vishnevetsky M, et al. **J Biol Chem** 1997 Oct 3;272(40):24747–50

Cooperative action of lipo–chitin nodulation signals on the induction of the early nodulin, ENOD2, in soybean roots. Minami E, et al. **Mol Plant Microbe Interact** 1996 Sep; 9(7):574–83

A major jasmonate–inducible protein of sweet potato, ipomoelin, is an ABA–independent wound–inducible protein. Imanishi S, et al. **Plant Cell Physiol** 1997 Jun; 38(6):643–52

Analysis of the promoter of the auxin–inducible gene, parC, of tobacco. Sakai T, et al. **Plant Cell Physiol** 1996 Oct; 37(7):906–13

The level of mRNA transcribed from psaL, which encodes a subunit of photosystem I, is increased by cytokinin in darkness in etiolated cotyledons of cucumber. Toyama T, et al. **Plant Cell Physiol** 1996 Oct;37(7):1038–41

VR–ACS6 is an auxin–inducible 1–aminocyclopropane–1–carboxylate synthase gene in mungbean (Vigna radiata). Yoon IS, et al. **Plant Cell Physiol** 1997 Mar;38(3):217–24

Co–ordinated induction of mRNAs for extracellular invertase and a glucose transporter in Chenopodium rubrum by cytokinins. Ehness R, et al. **Plant J** 1997 Mar;11(3):539–48

Identification of mutants in metabolically regulated gene expression. Martin T, et al. **Plant J** 1997 Jan;11(1):53–62

Regulatory activity exerted by the SAUR–AC1 promoter region in transgenic plants. Gil P, et al. **Plant Mol Biol** 1997 Jul;34(5):803–8

Characterization and expression of chitinase and 1,3–beta–glucanase genes in cotton. Hudspeth RL, et al. **Plant Mol Biol** 1996 Jul;31(4):911–6

Salt stress induces an increased expression of V–type H(+)–ATPase in mature sugar beet leaves. Kirsch M, et al. **Plant Mol Biol** 1996 Nov;32(3):543–7

Differential induction of seven 1–aminocyclopropane–1–carboxylate synthase genes by elicitor in suspension cultures of tomato (Lycopersicon esculentum). Oetiker JH, et al. **Plant Mol Biol** 1997 May; 34(2):275–86

Tissue–specific activation of the osmotin gene by ABA, C2H4 and NaCl involves the same promoter region. Raghothama KG, et al. **Plant Mol Biol** 1997 Jun; 34(3):393–402

Cloning and expression of an Arabidopsis thaliana cDNA encoding a monofunctional aspartate kinase homologous to the lysine–sensitive enzyme of Escherichia coli. Tang G, et al. **Plant Mol Biol** 1997 May;34(2):287–93

Coordinated activation of as–1–type elements and a tobacco glutathione S–transferase gene by auxins, salicylic acid, methyl–jasmonate and hydrogen peroxide. Xiang C, et al. **Plant Mol Biol** 1996 Nov;32(3):415–26

Expression and RNA splicing of the maize glutathione S–transferase Bronze2 gene is regulated by cadmium and other stresses. Marrs KA, et al. **Plant Physiol** 1997 Jan; 113(1):93–102

A system for tissue–specific copper–controllable gene expression in transgenic plants: nodule–specific antisense of aspartate aminotransferase–P2. Mett VL, et al. **Transgenic Res** 1996 Mar;5(2):105–113

GENETICS

Control of gene expression by base deamination: the case of RNA editing in wheat mitochondria. Blanc V, et al. **Biochimie** 1996;78(6):511–7 (50 ref.)

Nucleolar dominance in triticales: control by unlinked genes. Neves N, et al. **Chromosome Res** 1997 Apr;5(2):125–31

Cell–cell interactions: taking cues from the neighbors. Weigel D, et al. **Curr Biol** 1996 Jan 1;6(1):10–2 (10 ref.)

The steady–state level of mRNA from the Ogura cytoplasmic male sterility locus in Brassica cybrids is determined post–transcriptionally by its 3' region. Bellaoui M, et al. **EMBO J** 1997 Aug 15;16(16):5057–68

Temperature–regulated mRNA accumulation and stabilization for fatty acid desaturase genes in the cyanobacterium Synechococcus sp. strain PCC 7002. Sakamoto T, et al. **Mol Microbiol** 1997 Mar;23(6):1281–92

Inactivation of the flax rust resistance gene M associated with loss of a repeated unit within the leucine–rich repeat coding region. Anderson PA, et al. **Plant Cell** 1997 Apr;9(4):641–51

Identification of cis–elements regulating the expression of an Arabidopsis histone H4 gene. Chaubet N, et al. **Plant J** 1996 Sep;10(3):425–35

Structure and regulation of the maize Bronze2 promoter. Bodeau JP, et al. **Plant Mol Biol** 1996 Nov;32(4):599–609

The 22 bp W1 element in the pea lectin promoter is necessary and, as a multimer, sufficient for high gene expression in tobacco seeds. de Pater S, et al. **Plant Mol Biol** 1996 Nov; 32(3):515–23

RNA expression patterns of a type 2 metallothionein–like gene from rice. Hsieh HM, et al. **Plant Mol Biol** 1996 Nov; 32(3):525–9

Constitutive non–inducible expression of the Arabidopsis thaliana Nia 2 gene in two nitrate reductase mutants of Nicotiana plumbaginifolia. Kaye C, et al. **Plant Mol Biol** 1997 Apr;33(6):953–64

The same nuclear proteins bind to the 5'–flanking regions of genes for the rice seed storage protein: 16 kDa albumin, 13 kDa prolamin and type II glutelin. Nakase M, et al. **Plant Mol Biol** 1996 Nov;32(4):621–30

mRNA stability and localisation of the low–temperature–responsive barley gene family blt14. Phillips JR, et al. **Plant Mol Biol** 1997 Apr;33(6):1013–23

Enhanced expression in tobacco of the gene encoding green fluorescent protein by modification of its codon usage. Rouwendal GJ, et al. **Plant Mol Biol** 1997 Apr;33(6):989–99

Differential expression of the Sesbania rostrata leghemoglobin glb3 gene promoter in transgenic legume and non–legume plants. Szczyglowski K, et al. **Plant Mol Biol** 1996 Jul;31(4):931–5

A 68 bp element of the beta–phaseolin promoter functions as a seed–specific enhancer. van der Geest AH, et al. **Plant Mol Biol** 1996 Nov;32(4):579–88

Molecular cloning, structure and expression of an elicitor–inducible chitinase gene from pine trees. Wu H, et al. **Plant Mol Biol** 1997 Apr;33(6):979–87

DNA sequences that activate isocitrate lyase gene expression during late embryogenesis and during postgerminative growth. Zhang JZ, et al. **Plant Physiol** 1996 Apr; 110(4):1069–79

Inheritance, gene expression, and lignin characterization in a mutant pine deficient in cinnamyl alcohol dehydrogenase. MacKay JJ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8255–60

Preproricin expressed in Nicotiana tabacum cells in vitro is fully processed and biologically active. Tagge EP, et al. **Protein Expr Purif** 1996 Aug;8(1):109–18

Modification of fatty acid composition by over– and antisense–expression of a microsomal omega–3 fatty acid desaturase gene in transgenic tobacco. Hamada T, et al. **Transgenic Res** 1996 Mar;5(2):115–21

[Molecular bases of cytoplasmic male sterility in higher plants] Jańska H, et al. **Postepy Biochem** 1996;42(3):253–9 (86 ref.) **(Pol)**

PHYSIOLOGY

A rab11–like gene is developmentally regulated in ripening mango (Mangifera indica L.) fruit. Zainal Z, et al. **Biochim Biophys Acta** 1996 Dec 12;1314(3):187–90

Repeat–induced gene silencing: common mechanisms in plants and fungi. Meyer P. **Biol Chem Hoppe Seyler** 1996 Feb;377(2):87–95 (91 ref.)

Turned on by stress. Plant retrotransposons. Wessler SR. **Curr Biol** 1996 Aug 1;6(8):959–61 (17 ref.)

lem7, a novel temperature–sensitive Arabidopsis mutation that reversibly inhibits vegetative development. Meisel L, et al. **Dev Biol** 1996 Oct 10;179(1):116–34

A leucine–rich repeat containing receptor–like kinase marks somatic plant cells competent to form embryos. Schmidt ED, et al. **Development** 1997 May;124(10):2049–62

Modification of flower colour via manipulation of P450 gene expression in transgenic plants. Holton TA. **Drug Metabol Drug Interact** 1995;12(3–4):359–68 (28 ref.)

Rapid stimulation of a soybean protein–serine kinase that phosphorylates a novel bZIP DNA–binding protein, G/HBF–1, during the induction of early transcription–dependent defenses. Dröge–Laser W, et al. **EMBO J** 1997 Feb 17;16(4):726–38

Cloning of a cDNA encoding DNA topoisomerase I in Daucus carota and expression analysis in relation to cell proliferation [published erratum appears in Gene 1997 May 20;191(1):127] Balestrazzi A, et al. **Gene** 1996 Dec 12; 183(1–2):183–90

Use of viral replicons for the expression of genes in plants. Porta C, et al. **Mol Biotechnol** 1996 Jun;5(3):209–21 (73 ref.)

A negative regulatory factor for the dark repression of Arabidopsis thaliana cab1 gene. Choi DK, et al. **Photochem Photobiol** 1996 Nov;64(5):870–5

Photosynthetic electron transport regulates the expression of cytosolic ascorbate peroxidase genes in Arabidopsis during excess light stress. Karpinski S, et al. **Plant Cell** 1997 Apr;9(4):627–40

Identification of new protein species among 33 different small GTP–binding proteins encoded by cDNAs from Lotus japonicus, and expression of corresponding mRNAs in developing root nodules. Borg S, et al. **Plant J** 1997 Feb; 11(2):237–50

Auxin regulation and spatial localization of an endo–1,4–beta–D–glucanase and a xyloglucan endotransglycosylase in expanding tomato hypocotyls. Catalá C, et al. **Plant J** 1997 Aug;12(2):417–26

Tissue–specific expression of ATCYS–3A, a gene encoding the cytosolic isoform of O–acetylserine(thiol)lyase in Arabidopsis. Gotor C, et al. **Plant J** 1997 Feb;11(2):347–52

Cloning and expression of solanidine UDP–glucose glucosyltransferase from potato. Moehs CP, et al. **Plant J** 1997 Feb;11(2):227–36

Differential expression of a CAK (cdc2–activating kinase)–like protein kinase, cyclins and cdc2 genes from rice during the cell cycle and in response to gibberellin. Sauter M. **Plant J** 1997 Feb;11(2):181–90

A molecular study of dormancy breaking and germination in seeds of Trollius ledebouri. Bailey PC, et al. **Plant Mol Biol** 1996 Nov;32(3):559–64

Silencing of a beta–1,3–glucanase transgene is overcome during seed formation. Balandin T, et al. **Plant Mol Biol** 1997 May;34(1):125–37

A pollen allergen-encoding gene is expressed in wheat ovaries. Balzer HJ, et al. **Plant Mol Biol** 1996 Nov; 32(3):435–45

Expression of anthocyanin biosynthesis pathway genes in red and white grapes. Boss PK, et al. **Plant Mol Biol** 1996 Nov;32(3):565–9

Differential regulation of small heat-shock genes in plants: analysis of a water-stress-inducible and developmentally activated sunflower promoter. Coca MA, et al. **Plant Mol Biol** 1996 Jul;31(4):863–76

Eucalypt alpha-tubulin: cDNA cloning and increased level of transcripts in ectomycorrhizal root system. Diaz EC, et al. **Plant Mol Biol** 1996 Jul;31(4):905–10

Isolation of molecular markers from the barley endosperm coenocyte and the surrounding nucellus cell layers. Doan DN, et al. **Plant Mol Biol** 1996 Jul;31(4):877–86

Localization of tobacco cytosolic glutamine synthetase enzymes and the corresponding transcripts shows organ- and cell-specific patterns of protein synthesis and gene expression. Dubois F, et al. **Plant Mol Biol** 1996 Jul; 31(4):803–17

Isolation and transcript analysis of gibberellin 20-oxidase genes in pea and bean in relation to fruit development. García-Martínez JL, et al. **Plant Mol Biol** 1997 Apr; 33(6):1073–84

Transcripts of a gene encoding a putative cell wall-plasma membrane linker protein are specifically cold-induced in Brassica napus. Goodwin W, et al. **Plant Mol Biol** 1996 Jul;31(4):771–81

A family of novel myb-related genes from the resurrection plant Craterostigma plantagineum are specifically expressed in callus and roots in response to ABA or desiccation. Iturriaga G, et al. **Plant Mol Biol** 1996 Nov;32(4):707–16

cDNA cloning and expression of a gene for 3-ketoacyl-CoA thiolase in pumpkin cotyledons. Kato A, et al. **Plant Mol Biol** 1996 Jul;31(4):843–52

Cloning and developmental/stress-regulated expression of a gene encoding a tomato arabinogalactan protein. Li SX, et al. **Plant Mol Biol** 1996 Nov;32(4):641–52

A phosphate-starvation inducible beta-glucosidase gene (psr3.2) isolated from Arabidopsis thaliana is a member of a distinct subfamily of the BGA family. Malboobi MA, et al. **Plant Mol Biol** 1997 May;34(1):57–68

Cloning and expression of transaldolase from potato. Moehs CP, et al. **Plant Mol Biol** 1996 Nov;32(3):447–52

Expression of two heterologous promoters, Agrobacterium rhizogenes rolC and cauliflower mosaic virus 35S, in the stem of transgenic hybrid aspen plants during the annual cycle of growth and dormancy. Nilsson O, et al. **Plant Mol Biol** 1996 Jul;31(4):887–95

Identification and expression of water stress- and abscisic acid-regulated genes in a drought-tolerant sunflower genotype. Ouvrard O, et al. **Plant Mol Biol** 1996 Jul; 31(4):819–29

Structure of the dehydrin tas14 gene of tomato and its developmental and environmental regulation in transgenic tobacco. Parra MM, et al. **Plant Mol Biol** 1996 Nov; 32(3):453–60

Chalcone synthase in rice (Oryza sativa L.): detection of the CHS protein in seedlings and molecular mapping of the chs locus. Reddy AR, et al. **Plant Mol Biol** 1996 Nov; 32(4):735–43

Isolation of cDNAs encoding two purine biosynthetic enzymes of soybean and expression of the corresponding transcripts in roots and root nodules. Schnorr KM, et al. **Plant Mol Biol** 1996 Nov;32(4):751–7

Defence-related gene activation during an incompatible interaction between Stagonospora (Septoria) nodorum and barley (Hordeum vulgare L.) coleoptile cells. Stevens C, et al. **Plant Mol Biol** 1996 Jul;31(4):741–9

Ethylene biosynthetic genes are differentially expressed during carnation (Dianthus caryophyllus L.) flower senescence. ten Have A, et al. **Plant Mol Biol** 1997 May; 34(1):89–97

Isolation and characterization of cDNA clones corresponding to the genes expressed preferentially in floral organs of Arabidopsis thaliana. Utsugi S, et al. **Plant Mol Biol** 1996 Nov;32(4):759–65

Mechanosensitive expression of a lipoxygenase gene in wheat. Mauch F, et al. **Plant Physiol** 1997 Aug;114(4):1561–6

Arabidopsis thaliana CBF1 encodes an AP2 domain-containing transcriptional activator that binds to the C-repeat/DRE, a cis-acting DNA regulatory element that stimulates transcription in response to low temperature and water deficit. Stockinger EJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1035–40

Polycomb in plants. Ma H. **Trends Genet** 1997 May;13(5):167

RADIATION EFFECTS

Cloning of a cDNA that encodes farnesyl diphosphate synthase and the blue-light-induced expression of the corresponding gene in the leaves of rice plants. Sanmiya K, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):240–6

A role for transcriptional repression during light control of plant development. von Arnim A, et al. **Bioessays** 1996 Nov;18(11):905–10

Influence of UV-light on the expression of the Cat2 and Cat3 catalase genes in maize. Boldt R, et al. **Free Radic Biol Med** 1997;23(3):505–14

Response of the maize catalases to light. Polidoros AN, et al. **Free Radic Biol Med** 1997;23(3):497–504 (56 ref.)

The octadecanoid signalling pathway in plants mediates a response to ultraviolet radiation [see comments] Conconi A, et al. **Nature** 1996 Oct 31;383(6603):826–9. Comment in: Nature 1996 Oct 31;383(6603):763–4.

A negative regulatory factor for the dark repression of Arabidopsis thaliana cab1 gene. Choi DK, et al. **Photochem Photobiol** 1996 Nov;64(5):870–5

UV-B, UV-A, and blue light signal transduction pathways interact synergistically to regulate chalcone synthase gene expression in Arabidopsis. Fuglevand G, et al. **Plant Cell** 1996 Dec;8(12):2347–57

Light-dependent developmental control of rbcS gene expression in epidermal cells of maize leaves. Bilang R, et al. **Plant Mol Biol** 1996 Jul;31(4):831–41

Ancestral multipartite units in light-responsive plant promoters have structural features correlating with specific phototransduction pathways. Argüello-Astorga GR, et al. **Plant Physiol** 1996 Nov;112(3):1151–66

Cis-acting elements essential for light regulation of the nuclear gene encoding the A subunit of chloroplast glyceraldehyde 3-phosphate dehydrogenase in Arabidopsis thaliana. Park SC, et al. **Plant Physiol** 1996 Dec; 112(4):1563–71

Influence of light on DNA content of Helianthus annuus Linnaeus. Price HJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11264–11267

GENE EXPRESSION REGULATION, VIRAL

Studies of the astrovirus signal that induces (-1) ribosomal frameshifting. Lewis TL, et al. **Adv Exp Med Biol** 1997; 412:323–30

ADP-ribosylation and early transcription regulation by bacteriophage T4. Wilkens K, et al. **Adv Exp Med Biol** 1997;419:71–82 (34 ref.)

CD8+ T cell-mediated suppression of HIV long terminal repeat-driven gene expression is not associated with improved clinical status. Copeland KF, et al. **AIDS** 1997 Apr;11(5):581–6

Regulation of HIV gene expression. Cullen BR. **AIDS** 1995; 9 Suppl A:S19–32 (120 ref.)

Enhancement or inhibition of HIV-1 replication by intracellular expression of sense or antisense RNA targeted at different intermediates of reverse transcription. Peng H, et al. **AIDS** 1997 Apr;11(5):587–95

Differential expression of human endogenous retroviral sequences similar to mouse mammary tumor virus in normal peripheral blood mononuclear cells. Andersson ML, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):833–40

Models of HIV type 1 proviral gene expression in wild-type HIV and MLV/HIV transgenic mice. Dickie P, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10;12(12):1103–16

TAR- and Tat-independent replication of human immunodeficiency virus type 1 in human hepatoma cells. Zhu M, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10; 12(12):1093–101

Adenoviral gene transfer of macrophage inflammatory protein-2 in rat lung. Foley R, et al. **Am J Pathol** 1996 Oct;149(4):1395–403

Different arrangement of human papillomavirus E2 binding sites distinguishes cutaneous types from those associated with mucosal lesions. Garrido-Guerrero E, et al. **Arch Med Res** 1996 Autumn;27(3):389–94

Nuclear proteins bind to poliovirus 5' untranslated region [published erratum appears in Arch Med Res 1996 Winter;27(4):589] Gutiérrez-Escolano L, et al. **Arch Med Res** 1996 Autumn;27(3):413–9

Expression of the feline herpesvirus type 1 ICP4 gene is controlled by two alternative promoters. Kawaguchi Y, et al. **Arch Virol** 1997;142(2):239–53

Identification of the minimal replicase and the minimal promoter of (-)-strand synthesis, functional in rotavirus RNA replication in vitro. Wentz MJ, et al. **Arch Virol Suppl** 1996;12:59–67

Low temperature enhancement of reporter genes expression directed by human immunodeficiency virus type 1 long terminal repeat. Chevrier-Miller M, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):695–703

VSV-G-pseudotyped retroviral packaging through adenovirus-mediated inducible gene expression. Yoshida Y, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):379–82

HIV expression is induced in dying cells. Woloschak GE, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):105–10

Role of cellular kinases in the gene expression of nonsegmented negative strand RNA viruses. De BP, et al. **Biol Chem** 1997 Jun;378(6):489–93 (29 ref.)

Upregulation of c-Fos in activated T lymphoid and monocytic cells by human immunodeficiency virus-1 Tat protein. Gibellini D, et al. **Blood** 1997 Mar 1;89(5):1654–64

High-level globin gene expression mediated by a recombinant adeno-associated virus genome that contains the 3' gamma globin gene regulatory element and integrates as tandem copies in erythroid cells. Hargrove PW, et al. **Blood** 1997 Mar 15;89(6):2167–75

Epstein-Barr virus latent gene expression in primary effusion lymphomas containing Kaposi's sarcoma-associated herpesvirus/human herpesvirus-8. Horenstein MG, et al. **Blood** 1997 Aug 1;90(3):1186–91

Lytic replication of Epstein-Barr virus in the peripheral blood: analysis of viral gene expression in B lymphocytes during infectious mononucleosis and in the normal carrier state. Prang NS, et al. **Blood** 1997 Mar 1;89(5):1665–77

CpG methylation of the major Epstein-Barr virus latency promoter in Burkitt's lymphoma and Hodgkin's disease. Robertson KD, et al. **Blood** 1996 Oct 15;88(8):3129–36

Overexpression of a functional NMDA receptor subunit (NMDAR1) in baculovirus-infected Trichoplusia ni insect cells. Sydow S, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):228–40

Inhibition of melanoma-associated antigen expression and ecotropic retrovirus production in B16BL6 melanoma cells transfected with major histocompatibility complex class I genes. Li M, et al. **Cancer Res** 1996 Oct 1;56(19):4464–74

Monocytes harboring cytomegalovirus: interactions with endothelial cells, smooth muscle cells, and oxidized low-density lipoprotein. Possible mechanisms for activating virus delivered by monocytes to sites of vascular injury. Guetta E, et al. **Circ Res** 1997 Jul;81(1):8–16

Role of reactive oxygen intermediates in cytomegalovirus gene expression and in the response of human smooth muscle cells to viral infection. Speir E, et al. **Circ Res** 1996 Dec;79(6):1143–52

In vitro experimental systems for HPV: epithelial raft cultures for investigations of viral reproduction and pathogenesis and for genetic analyses of viral proteins and regulatory sequences. Chow LT, et al. **Clin Dermatol** 1997 Mar-Apr; 15(2):217–27 (63 ref.)

The roles of AAV Rep proteins in gene expression and targeted integration. Chiorini JA, et al. **Curr Top Microbiol Immunol** 1996;218:25–33 (43 ref.)

Bifunctionality of the AcMNPV homologous region sequence (hr1): enhancer and ori functions have different sequence requirements. Habib S, et al. **DNA Cell Biol** 1996 Sep;15(9):737–47

Baculovirus-directed expression of rabbit UDP-glucuronosyltransferases in Spodoptera frugiperda cells. Nguyen N, et al. **Drug Metab Dispos** 1997 Jun; 25(6):745–9

Consistent gene silencing in transgenic plants expressing a replicating potato virus X RNA. Angell SM, et al. **EMBO J** 1997 Jun;16(12):3675–84

Dual targets of a transcriptional activator that tracks on DNA. Sanders GM, et al. **EMBO J** 1997 Jun 2; 16(11):3124–32

Suppressive effect of hepatitis B virus on the induction of interleukin-1 beta and interleukin-6 gene expression in the THP-1 human monocytic cell line. Oquendo J, et al. **Eur Cytokine Netw** 1996 Dec;7(4):793–800

The regulation of human immunodeficiency virus type-1 gene expression. Kingsman SM, et al. **Eur J Biochem** 1996 Sep 15;240(3):491–507 (177 ref.)

In vivo translational efficiency of different hepatitis C virus 5'-UTRs. Buratti E, et al. **FEBS Lett** 1997 Jul 14; 411(2-3):275–80

Bacillus subtilis bacteriophage SPP1 terminase has a dual activity: it is required for the packaging initiation and represses its own synthesis. Chai S, et al. **Gene** 1997 Jan 15;184(2):251–6

Evidence for regulation of transcription and replication of the human neurotropic virus JCV genome by the human S(mu)bp-2 protein in glial cells. Chen NN, et al. **Gene** 1997 Jan 31;185(1):55–62

Deletion of the myristylation signal allows high-level production of the hepatitis B virus large surface glycoprotein preS1 with vaccinia virus recombinants. Pfleiderer M, et al. **Gene** 1996 Oct 17;176(1-2):131–7

Adenovirus E1a interferes with expression of vaccinia viral genes. Strauss D, et al. **Gene** 1997 Jan 15;184(2):279–84

Novel complementation cell lines derived from human lung carcinoma A549 cells support the growth of E1-deleted adenovirus vectors. Imler JL, et al. **Gene Ther** 1996 Jan; 3(1):75–84

Increased levels of spliced RNA account for augmented expression from the MFG retroviral vector in hematopoietic cells. Krall WJ, et al. **Gene Ther** 1996 Jan; 3(1):37–48

Loss of retroviral gene expression in bone marrow reconstituted mice correlates with down-regulation of gene expression in long-term culture initiating cells. Lange C, et al. **Gene Ther** 1997 Apr;4(4):303–8

Incorporation of nuclear matrix attachment regions into the herpes simplex virus type 1 genome does not induce long-term expression of a foreign gene during latency. Makarova O, et al. **Gene Ther** 1996 Sep;3(9):829–33

BCL6 can repress transcription from the human immunodeficiency virus type I promoter/enhancer region. Baron BW, et al. **Genes Chromosomes Cancer** 1997 May; 19(1):14–21

C-terminal deletions can suppress temperature-sensitive mutations and change dominance in the phage Mu repressor. Vogel JL, et al. **Genetics** 1996 Mar;142(3):661–72

Epstein-Barr virus latent and replicative gene expression in gastric carcinoma. Selves J, et al. **Histopathology** 1996 Feb; 28(2):121–7

Long-term expression of a foreign gene from a unique position in the latent herpes simplex virus genome. Carpenter DE, et al. **Hum Gene Ther** 1996 Aug 1; 7(12):1447–54

The ecology and pathology of Epstein-Barr virus. Schmidt CW, et al. **Immunol Cell Biol** 1995 Dec;73(6):489–504 (260 ref.)

The potential roles of endogenous retroviruses in autoimmunity. Nakagawa K, et al. **Immunol Rev** 1996 Aug;

152:193–236 (219 ref.)

Expression and immunogenicity in rats of recombinant adenovirus 5 DNA plasmids and vaccinia virus containing the HTLV–I env gene. Kazanji M, et al. **Int J Cancer** 1997 Apr 10;71(2):300–7

Regulation of human cytomegalovirus immediate–early gene expression. Meier JL, et al. **Intervirology** 1996; 39(5–6):331–42 (114 ref.)

Activation and regulation of human cytomegalovirus early genes. Spector DH. **Intervirology** 1996;39(5–6):361–77 (107 ref.)

Characterization of Skn–1a/i POU domain factors and linkage to papillomavirus gene expression. Andersen B, et al. **J Biol Chem** 1997 Jun 20;272(25):15905–13

Synergism between multiple virus–induced factor–binding elements involved in the differential expression of interferon A genes. Bragança J, et al. **J Biol Chem** 1997 Aug 29;272(35):22154–62

Effect of DNA–binding drugs on early growth response factor–1 and TATA box–binding protein complex formation with the herpes simplex virus latency promoter. Chiang SY, et al. **J Biol Chem** 1996 Sep 27; 271(39):23999–4004

Association of Tat with purified HIV–1 and HIV–2 transcription preinitiation complexes. García–Martínez LF, et al. **J Biol Chem** 1997 Mar 14;272(11):6951–8

Identification of an osteoclast transcription factor that binds to the human T cell leukemia virus type I–long terminal repeat enhancer element. Inoue D, et al. **J Biol Chem** 1997 Oct 3;272(40):25386–93

Activation of the HIV–1 long terminal repeat by cytokines and environmental stress requires an active CSBP/p38 MAP kinase. Kumar S, et al. **J Biol Chem** 1996 Nov 29; 271(48):30864–9

Differential activation of viral and cellular promoters by human T–cell lymphotropic virus–1 tax and cAMP–responsive element modulator isoforms. Laurance ME, et al. **J Biol Chem** 1997 Jan 31;272(5):2646–51

Chicken ovalbumin upstream promoter transcription factor, a transcriptional activator of HIV–1 gene expression in human brain cells. Sawaya BE, et al. **J Biol Chem** 1996 Sep 20;271(38):23572–6

Regulation of human immunodeficiency virus type 1 gene transcription by nuclear receptors in human brain cells. Sawaya BE, et al. **J Biol Chem** 1996 Sep 13; 271(37):22895–900

Differential activity of progesterone and glucocorticoid receptors on mouse mammary tumor virus templates differing in chromatin structure. Smith CL, et al. **J Biol Chem** 1997 May 30;272(22):14227–35

Mutations in the nuclear export signal of human ran–binding protein RanBP1 block the Rev–mediated posttranscriptional regulation of human immunodeficiency virus type 1. Zolotukhin AS, et al. **J Biol Chem** 1997 Apr 25;272(17):11356–60

Dynamics of HIV–1 mRNA expression in patients with long–term nonprogressive HIV–1 infection. Comar M, et al. **J Clin Invest** 1997 Aug 15;100(4):893–903

Oral tolerization to adenoviral antigens permits long–term gene expression using recombinant adenoviral vectors. Ilan Y, et al. **J Clin Invest** 1997 Mar 1;99(5):1098–106

Epstein–Barr virus binding to CD21 activates the initial viral promoter via NF–kappaB induction. Sugano N, et al. **J Exp Med** 1997 Aug 29;186(5):731–7

Regulated expression vectors demonstrate cell–type–specific sensitivity to human immunodeficiency virus type 1 Nef–induced cytostasis. Cooke SJ, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):381–92

Extracellular simian virus 40 induces an ERK/MAP kinase–independent signalling pathway that activates primary response genes and promotes virus entry. Dangoria NS, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2173–82

Isogenic adenoviruses type 5 expressing or not expressing the E1A gene: efficiency as virus vectors in the vaccination of permissive and non–permissive species. Eloit M, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1583–9

cAMP response element of murine cytomegalovirus immediate early gene enhancer is transactivated by ras oncogene products. Gaboli M, et al. **J Gen Virol** 1995 Apr; 76 (Pt 4):751–8

Expression of AP1 during cellular differentiation determines human papillomavirus E6/E7 expression in stratified epithelial cells. Kyo S, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):401–11

A cis–acting element 7 bp upstream of the ESF–1–binding motif is involved in E1A 13S autoregulation of the adenovirus 12 TS2 promoter. Pützer BM, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):879–91

Cell type–specific expression in brain cell cultures from a short human cytomegalovirus major immediate early promoter depends on whether it is inserted into herpesvirus or adenovirus vectors. Shering AF, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):445–59

The inhibitory effects of antisense RNA on hepatitis B virus surface antigen synthesis. Wu J, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):641–7

Glial and muscle embryonal carcinoma cell–specific independent regulation of expression of human JC virus early promoter by cyclic AMP response elements and adjacent nuclear factor 1 binding sites. Kumar KU, et al. **J Med Virol** 1996 Jul;49(3):199–204

Enhancement of varicella–zoster virus infection in cell lines expressing ORF4– or ORF62–encoded proteins. Schoonbroodt S, et al. **J Med Virol** 1996 Aug;49(4):264–73

Translational activation in coliphage Qbeta: on a polycistronic messenger RNA, repression of one gene can activate translation of another. Priano C, et al. **J Mol Biol** 1997 Aug 22;271(3):299–310

Effect of canarypox virus (ALVAC)–mediated cytokine expression on murine prostate tumor growth [see comments] Kawakita M, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):428–36. Comment in: J Natl Cancer Inst 1997 Mar 19;89(6):408–9.

Transactivation of proenkephalin gene by HTLV–1 tax1 protein in glial cells: involvement of Fos/Jun complex at an AP–1 element in the proenkephalin gene promoter. Fu W, et al. **J Neurovirol** 1997 Feb;3(1):16–27

Genomic and template RNA transcription in a model of persistent enteroviral infection. Gow JW, et al. **J Neurovirol** 1997 Feb;3(1):76–82

The regulation of gene expression in neurotrophic viruses. Roos RP. **J Neurovirol** 1997 May;3 Suppl 1:S25–7 (15 ref.)

Characterization of the feline herpesvirus type 1 immediate early gene expression. Kawaguchi Y, et al. **J Vet Med Sci** 1996 Aug;58(8):715–21

Virion swelling is not required for cotranslational disassembly of cowpea chlorotic mottle virus in vitro. Albert FG, et al. **J Virol** 1997 Jun;71(6):4296–9

The cytotoxicity of the parvovirus minute virus of mice nonstructural protein NS1 is related to changes in the synthesis and phosphorylation of cell proteins. Anouja F, et al. **J Virol** 1997 Jun;71(6):4671–8

Human cytomegalovirus tegument protein pp71 (ppUL82) enhances the infectivity of viral DNA and accelerates the infectious cycle. Baldick CJ Jr, et al. **J Virol** 1997 Jun; 71(6):4400–8

Function of the human T–cell leukemia virus type 1 21–base–pair repeats in basal transcription. Barnhart MK, et al. **J Virol** 1997 Jan;71(1):337–44

IE2 protein is insufficient for transcriptional repression of the human cytomegalovirus US3 promoter. Biegalke BJ. **J Virol** 1997 Oct;71(10):8056–60

In vivo study of genetically simplified bovine leukemia virus derivatives that lack tax and rex. Boris–Lawrie K, et al. **J Virol** 1997 Feb;71(2):1514–20

The ICP0 protein of equine herpesvirus 1 is an early protein that independently transactivates expression of all classes of viral promoters. Bowles DE, et al. **J Virol** 1997 Jul; 71(7):4904–14

Nef association with human immunodeficiency virus type 1 virions and cleavage by the viral protease. Bukovsky AA, et al. **J Virol** 1997 Feb;71(2):1013–8

Human immunodeficiency virus type 1 gp120 stimulates cytomegalovirus replication in monocytes: possible role of endogenous interleukin–8. Capobianchi MR, et al. **J Virol** 1997 Feb;71(2):1591–7

Characterization of the products of the U(L)43 gene of herpes simplex virus 1: potential implications for regulation of gene expression by antisense transcription. Carter KL, et al. **J Virol** 1996 Nov;70(11):7663–8

Two distinct upstream regulatory domains containing multicopy cellular transcription factor binding sites provide basal repression and inducible enhancer characteristics to the immediate–early IES (US3) promoter from human cytomegalovirus. Chan YJ, et al. **J Virol** 1996 Aug; 70(8):5312–28

Baculovirus gp64 gene expression: negative regulation by a minicistron. Chang MJ, et al. **J Virol** 1997 Oct; 71(10):7448–60

Initiation of vesicular stomatitis virus mutant polR1 transcription internally at the N gene in vitro. Chuang JL, et al. **J Virol** 1997 Feb;71(2):1466–75

Multiple regulatory effects of varicella–zoster virus (VZV) gL on trafficking patterns and fusogenic properties of VZV gH. Duus KM, et al. **J Virol** 1996 Dec;70(12):8961–71

cis elements that contribute to geminivirus transcriptional regulation and the efficiency of DNA replication. Eagle PA, et al. **J Virol** 1997 Sep;71(9):6947–55

Multiple widely spaced elements determine the efficiency with which a distal cistron is expressed from the polycistronic pregenomic RNA of figwort mosaic caulimovirus. Edskes HK, et al. **J Virol** 1997 Feb; 71(2):1567–75

Diminishing adenovirus gene expression and viral replication by promoter replacement. Fang B, et al. **J Virol** 1997 Jun; 71(6):4798–803

Chimeric Sindbis viruses dependent on the NS3 protease of hepatitis C virus. Filocamo G, et al. **J Virol** 1997 Feb; 71(2):1417–27

Induction of human papillomavirus type 18 late gene expression and genomic amplification in organotypic cultures from transfected DNA templates. Frattini MG, et al. **J Virol** 1997 Sep;71(9):7068–72

The sequence element of the internal ribosome entry site and a 25–kilodalton cellular protein contribute to efficient internal initiation of translation of hepatitis C virus RNA. Fukushi S, et al. **J Virol** 1997 Feb;71(2):1662–6

The N terminus of hamster polyomavirus middle T antigen carries a determinant for specific activation of p59c–Fyn. Goutebroze L, et al. **J Virol** 1997 Feb;71(2):1436–42

The hepatitis B virus (HBV) precore protein inhibits HBV replication in transgenic mice. Guidotti LG, et al. **J Virol** 1996 Oct;70(10):7056–61

The variable 3' ends of a human cytomegalovirus oriLyt transcript (SRT) overlap an essential, conserved replicator element. Huang L, et al. **J Virol** 1996 Aug;70(8):5272–81

Novel retroviral vector transferring a suicide gene and a selectable marker gene with enhanced gene expression by using a tetracycline–responsive expression system. Hwang JJ, et al. **J Virol** 1996 Nov;70(11):8138–41

Activation of gene expression by herpes simplex virus type 1 ICP0 occurs at the level of mRNA synthesis. Jordan R, et al. **J Virol** 1997 Sep;71(9):6850–62

Translational regulation of the human cytomegalovirus pp28 (UL99) late gene. Kerry JA, et al. **J Virol** 1997 Feb; 71(2):981–7

The role of ATF in regulating the human cytomegalovirus DNA polymerase (UL54) promoter during viral infection. Kerry JA, et al. **J Virol** 1997 Mar;71(3):2120–6

The ICP22 protein of equine herpesvirus 1 cooperates with the IE protein to regulate viral gene expression. Kim SK, et al. **J Virol** 1997 Feb;71(2):1004–12

Analysis of the gene start and gene end signals of human respiratory syncytial virus: quasi–templated initiation at position 1 of the encoded mRNA. Kuo L, et al. **J Virol** 1997 Jul;71(7):4944–53

In vivo transcriptional regulation of the human immunodeficiency virus in the central nervous system in transgenic mice. Kurth J, et al. **J Virol** 1996 Nov; 70(11):7686–94

Role of early and late replication events in induction of apoptosis by baculoviruses. LaCount DJ, et al. **J Virol** 1997 Feb;71(2):1530–7

Mutations in the matrix protein of human immunodeficiency virus type 1 inhibit surface expression and virion incorporation of viral envelope glycoproteins in CD4+ T lymphocytes. Lee YM, et al. **J Virol** 1997 Feb; 71(2):1443–52

A mechanism for negative gene regulation in Autographa californica multinucleocapsid nuclear polyhedrosis virus. Leisy DJ, et al. **J Virol** 1997 Jul;71(7):5088–94

Transrepression of lck gene expression by human T–cell leukemia virus type 1–encoded p40tax. Lemasson I, et al. **J Virol** 1997 Mar;71(3):1975–83

Exon 1 leader sequences downstream of U5 are important for efficient human immunodeficiency virus type 1 gene expression. Lenz C, et al. **J Virol** 1997 Apr;71(4):2757–64

Role for highly regulated rep gene expression in adeno–associated virus vector production. Li J, et al. **J Virol** 1997 Jul;71(7):5236–43

Derepression of prophage P2 by satellite phage P4: cloning of the P4 epsilon gene and identification of its product. Liu T, et al. **J Virol** 1997 Jun;71(6):4502–8

The latency–associated promoter of herpes simplex virus type 1 requires a region downstream of the transcription start site for long–term expression during latency. Lokensgard JR, et al. **J Virol** 1997 Sep;71(9):6714–9

Biosynthesis of glycoproteins E and I of feline herpesvirus: gE–gI interaction is required for intracellular transport. Mijnes JD, et al. **J Virol** 1996 Aug;70(8):5466–75

Previously unsuspected cis–acting sequences for DNA replication revealed by characterization of a chimeric heron/duck hepatitis B virus. Mueller–Hill K, et al. **J Virol** 1996 Dec;70(12):8310–7

Nuclear localization of the NS3 protein of hepatitis C virus and factors affecting the localization. Muramatsu S, et al. **J Virol** 1997 Jul;71(7):4954–61

An amino–terminal domain of the Sendai virus nucleocapsid protein is required for template function in viral RNA synthesis. Myers TM, et al. **J Virol** 1997 Feb;71(2):918–24

Induction of CD4 expression and human immunodeficiency virus type 1 replication by mutants of the interferon–inducible protein kinase PKR. Nagai K, et al. **J Virol** 1997 Feb;71(2):1718–25

Transformation by bovine papillomavirus type 1 E6 is independent of transcriptional activation by E6. Ned R, et al. **J Virol** 1997 Jun;71(6):4866–70

Recombinant human immunodeficiency virus type 1 genomes with tat unconstrained by overlapping reading frames reveal residues in Tat important for replication in tissue culture. Neuveut C, et al. **J Virol** 1996 Aug;70(8):5572–81

Herpes simplex virus gene expression in neurons: viral DNA synthesis is a critical regulatory event in the branch point between the lytic and latent pathways. Nichol PF, et al. **J Virol** 1996 Aug;70(8):5476–86

Interferon–independent and –induced regulation of Epstein–Barr virus EBNA–1 gene transcription in Burkitt lymphoma. Nonkwelo C, et al. **J Virol** 1997 Sep; 71(9):6887–97

YY1 represses human papillomavirus type 16 transcription by quenching AP–1 activity. O'Connor MJ, et al. **J Virol** 1996 Oct;70(10):6529–39

RNA–targeted activators, but not DNA–targeted activators, repress the synthesis of short transcripts at the human immunodeficiency virus type 1 long terminal repeat. Pendergrast PS, et al. **J Virol** 1997 Feb;71(2):910–7

The influenza A virus PB2 polymerase subunit is required for the replication of viral RNA. Perales B, et al. **J Virol** 1997 Feb;71(2):1381–5

The adeno–associated virus (AAV) Rep protein acts as both a repressor and an activator to regulate AAV transcription during a productive infection. Pereira DJ, et al. **J Virol** 1997 Feb;71(2):1079–88

The adeno–associated virus type 2 p40 promoter requires a proximal Sp1 interaction and a p19 CArG–like element to facilitate Rep transactivation. Pereira DJ, et al.

J Virol 1997 Jun;71(6):4300–9

Repression of gene expression upon infection of cells with herpes simplex virus type 1 mutants impaired for immediate-early protein synthesis. Preston CM, et al. **J Virol** 1997 Oct;71(10):7807–13

Regulation of EBNA gene transcription in lymphoblastoid cell lines: characterization of sequences downstream of BCR2 (Cp). Puglielli MT, et al. **J Virol** 1997 Jan; 71(1):120–8

Encapsidation of turnip crinkle virus is defined by a specific packaging signal and RNA size. Qu F, et al. **J Virol** 1997 Feb;71(2):1428–35

Members of the nuclear receptor superfamily regulate transcription from the hepatitis B virus nucleocapsid promoter. Raney AK, et al. **J Virol** 1997 Feb;71(2):1058–71

Cell-type-specific separate regulation of the E6 and E7 promoters of human papillomavirus type 6a by the viral transcription factor E2. Rapp B, et al. **J Virol** 1997 Sep; 71(9):6956–66

The CD4-independent tropism of human immunodeficiency virus type 2 involves several regions of the envelope protein and correlates with a reduced activation threshold for envelope-mediated fusion. Reeves JD, et al. **J Virol** 1997 Feb;71(2):1453–65

Human T-cell leukemia virus type 1 Tax transactivates the human proliferating cell nuclear antigen promoter. Ressler S, et al. **J Virol** 1997 Feb;71(2):1181–90

Conditional repression of the E2 transcription unit in E1–E3-deleted adenovirus vectors is correlated with a strong reduction in viral DNA replication and late gene expression in vitro. Rittner K, et al. **J Virol** 1997 Apr; 71(4):3307–11

Mapping promoter regions that are hypersensitive to methylation-mediated inhibition of transcription: application of the methylation cassette assay to the Epstein-Barr virus major latency promoter. Robertson KD, et al. **J Virol** 1997 Sep;71(9):6445–54

Nuclear targeting of incoming human foamy virus Gag proteins involves a centriolar step. Saïb A, et al. **J Virol** 1997 Feb;71(2):1155–61

cis-Acting inhibitory elements within the pol-env region of human T-cell leukemia virus type 1 possibly involved in viral persistence. Saiga A, et al. **J Virol** 1997 Jun; 71(6):4485–94

The herpes simplex virus immediate-early protein ICP0 affects transcription from the viral genome and infected-cell survival in the absence of ICP4 and ICP27. Samaniego LA, et al. **J Virol** 1997 Jun;71(6):4614–25

Evidence that the UL84 gene product of human cytomegalovirus is essential for promoting oriLyt-dependent DNA replication and formation of replication compartments in cotransfection assays. Sarisky RT, et al. **J Virol** 1996 Nov;70(11):7398–413

Competitive binding of viral E2 protein and mammalian core-binding factor to transcriptional control sequences of human papillomavirus type 8 and bovine papillomavirus type 1. Schmidt HM, et al. **J Virol** 1997 Oct;71(10):8029–34

Inactivation of the human immunodeficiency virus type 1 inhibitory elements allows Rev-independent expression of Gag and Gag/protease and particle formation. Schneider R, et al. **J Virol** 1997 Jul;71(7):4892–903

Virus-specific cytotoxic T-lymphocyte activity elicited by coimmunization with human immunodeficiency virus type 1 genes regulated by the bacteriophage T7 promoter and T7 RNA polymerase protein. Selby MJ, et al. **J Virol** 1997 Oct;71(10):7827–31

Human papillomavirus type 16 E6 protein transcriptionally modulates fibronectin gene expression by induction of protein complexes binding to the cyclic AMP response element. Shino Y, et al. **J Virol** 1997 Jun;71(6):4310–8

cis-acting elements involved in transcriptional regulation of the herpes simplex virus type 1 latency-associated promoter 1 (LAP1) in vitro and in vivo. Soares K, et al. **J Virol** 1996 Aug;70(8):5384–94

Dose-dependent regulation of the early promoter of human papillomavirus type 18 by the viral E2 protein. Steger G, et al. **J Virol** 1997 Jan;71(1):50–8

Chicken YB-2, a Y-box protein, is a potent activator of Rous sarcoma virus long terminal repeat-driven transcription in avian fibroblasts. Swamynathan SK, et al. **J Virol** 1997 Apr; 71(4):2873–80

Identification of an RNA sequence within an intracisternal-A particle element able to replace Rev-mediated posttranscriptional regulation of human immunodeficiency virus type 1. Tabernero C, et al. **J Virol** 1997 Jan; 71(1):95–101

Phosphorylation within the transactivation domain of adenovirus E1A protein by mitogen-activated protein kinase regulates expression of early region 4. Whalen SG, et al. **J Virol** 1997 May;71(5):3545–53

Distinct domains of IkappaB-alpha inhibit human immunodeficiency virus type 1 replication through NF-kappaB and Rev. Wu BY, et al. **J Virol** 1997 Apr; 71(4):3161–7

Identification of a promoter-specific transactivation domain in the herpes simplex virus regulatory protein ICP4. Xiao W, et al. **J Virol** 1997 Mar;71(3):1757–65

Activation of hepatitis B virus S promoter by the viral large surface protein via induction of stress in the endoplasmic reticulum. Xu Z, et al. **J Virol** 1997 Oct;71(10):7387–92

Inhibition of host cell transcription by poliovirus: cleavage of transcription factor CREB by poliovirus-encoded protease 3Cpro. Yalamanchili P, et al. **J Virol** 1997 Feb; 71(2):1220–6

Human herpesvirus 7 infection of lymphoid and myeloid cell lines transduced with an adenovirus vector containing the CD4 gene. Yasukawa M, et al. **J Virol** 1997 Feb; 71(2):1708–12

The IE2 regulatory protein of human cytomegalovirus induces expression of the human transforming growth factor beta1 gene through an Egr-1 binding site. Yoo YD, et al. **J Virol** 1996 Oct;70(10):7062–70

Identification of nucleotide sequences that regulate transcription of the MCF13 murine leukemia virus long terminal repeat in activated T cells. Yoshimura FK, et al. **J Virol** 1997 Mar;71(3):2572–6

Promoters for synthesis of the pre-C and pregenomic mRNAs of human hepatitis B virus are genetically distinct and differentially regulated. Yu X, et al. **J Virol** 1996 Dec; 70(12):8719–26

Early cytokine and chemokine gene expression in lymph nodes of macaques infected with simian immunodeficiency virus is predictive of disease outcome and vaccine efficacy. Zou W, et al. **J Virol** 1997 Feb;71(2):1227–36

Direct modulation of simian virus 40 late gene expression by thyroid hormone and its receptor. Zuo F, et al. **J Virol** 1997 Jan;71(1):427–36

Competitive reverse transcription-polymerase chain reaction for quantifying murine AIDS virus. Desforges B, et al. **J Virol Methods** 1996 Dec;62(2):161–8

CD4 deletion mutants evaluated for human immunodeficiency virus type 1 infectivity in a highly efficient system of expression and detection based on LTR-dependent reporter gene activation. Moir S, et al. **J Virol Methods** 1997 May;65(2):209–17

Regulation of gene expression directed by the long terminal repeats of feline leukemia viruses. Nishigaki K, et al. **Leukemia** 1997 Apr;11 Suppl 3:189–92

Human endogenous retroviruses: expression in various organs in vivo and its regulation in vitro. Sibata M, et al. **Leukemia** 1997 Apr;11 Suppl 3:145–6

A system to analyze and identify inhibitors of HIV-1 gene regulation using a defective integrated provirus. Byrnes V, et al. **Methods Enzymol** 1996;275:348–61

RNA-protein interactions in regulation of picornavirus RNA translation. Belsham GJ, et al. **Microbiol Rev** 1996 Sep; 60(3):499–511 (159 ref.)

Downregulation of Waf1, C2, C3, and major histocompatibility complex class I loci within an 18-cM region of chromosome 17 in adenovirus-transformed mouse cells. Eyler YL, et al. **Mol Carcinog** 1997 Apr;18(4):213–20

Denaturation of the simian virus 40 origin of replication mediated by human replication protein A. Iftode C, et al. **Mol Cell Biol** 1997 Jul;17(7):3876–83

Control of adenovirus early gene expression: posttranscriptional control mediated by both viral and cellular gene products. Katze MG, et al. **Mol Cell Biol** 1981 Sep;1(9):807–13

Purification and characterization of FBI-1, a cellular factor that binds to the human immunodeficiency virus type 1 inducer of short transcripts. Pessler F, et al. **Mol Cell Biol** 1997 Jul;17(7):3786–98

Adenovirally transferred p16INK4/CDKN2 and p53 genes cooperate to induce apoptotic tumor cell death. Sandig V, et al. **Nat Med** 1997 Mar;3(3):313–9

A polyoma-based episomal vector efficiently expresses exogenous genes in mouse embryonic stem cells. Camenisch G, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3707–13

Inhibition of transcription by the TAR RNA of HIV-1 in a nuclear extract of HeLa cells. Yamamoto R, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3445–50

Characterization of peripheral blood T-lymphocytes transduced with HTLV-I Tax mutants with different trans-activating phenotypes. Akagi T, et al. **Oncogene** 1997 May 1;14(17):2071–8

Expression of Egr-1 correlates with the transformed phenotype and the type of viral latency in EBV genome positive lymphoid cell lines. Calogero A, et al. **Oncogene** 1996 Nov 21;13(10):2105–12

Preferential activation of Fgf8 by proviral insertion in mammary tumors of Wnt1 transgenic mice. Kapoun AM, et al. **Oncogene** 1997 Jun 19;14(24):2985–9

Natural 30 base pair and 69 base pair deletion variants of the LMP1 oncogene do stimulate NF-kappaB-mediated transcription. Rothenberger S, et al. **Oncogene** 1997 May 1;14(17):2123–6

Gene expression from viral RNA genomes. Maia IG, et al. **Plant Mol Biol** 1996 Oct;32(1–2):367–91 (203 ref.)

Moderate increase in histone acetylation activates the mouse mammary tumor virus promoter and remodels its nucleosome structure. Bartsch J, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10741–6

An inhibitor of the Tat/TAR RNA interaction that effectively suppresses HIV-1 replication. Hamy F, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3548–53

Tumor necrosis factor receptor associated factor 2 is a mediator of NF-kappa B activation by latent infection membrane protein 1, the Epstein-Barr virus transforming protein. Kaye KM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11085–90

Heterogeneous nuclear ribonucleoprotein A1 binds to the transcription-regulatory region of mouse hepatitis virus RNA. Li HP, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9544–9

c-myc activation renders proliferation of Epstein-Barr virus (EBV)-transformed cells independent of EBV nuclear antigen 2 and latent membrane protein 1. Polack A, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10411–6

Characterization of a replication-incompetent adenovirus type 5 mutant deleted for the preterminal protein gene. Schaack J, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14686–91

Periplasmic expression of biologically active vesicular stomatitis virus phosphoprotein P in Escherichia coli. Pahari S, et al. **Protein Expr Purif** 1996 Jun;7(4):384–8

Infection of macrophages by influenza A virus: characteristics of tumour necrosis factor-alpha (TNF alpha) gene expression. Lehmann C, et al. **Res Virol** 1996 Mar-Jun;147(2–3):123–30

Production and characterization of human 293 cell lines expressing the site-specific recombinase Cre. Chen L, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):477–88

Does HIV tat protein also regulate genes of other viruses present in HIV infection? [letter] Ferbeyre G, et al. **Trends Biochem Sci** 1997 Apr;22(4):115–6

The atypical strategies used for gene expression of Borna disease virus, a nonsegmented, negative-strand RNA virus. Schneemann A, et al. **Uirusu** 1995 Dec;45(2):165–74 (39 ref.)

Bovine herpesvirus 1 downregulates the expression of bovine MHC class I molecules. Nataraj C, et al. **Viral Immunol** 1997;10(1):21–34

Elevated expression of the human parainfluenza virus type 1 F gene downregulates HN expression. Bousse T, et al. **Virology** 1997 May 26;232(1):44–52

Repression of bax gene expression by the HTLV-1 Tax protein: implications for suppression of apoptosis in virally infected cells. Brauweiler A, et al. **Virology** 1997 Apr 28; 231(1):135–40

Viral persistent infection affects both transcriptional and posttranscriptional regulation of neuron-specific molecule GAP43. Cao W, et al. **Virology** 1997 Apr 14;230(2):147–54

Cloning of Rous sarcoma virus enhancer factor genes. II. RSV-EF-II, abundantly expressed in fibroblasts and muscle tissue, binds to an octamer sequence, 5'-GTACCACC-3', in the noncoding strand of RSV enhancer. Cleavinger PJ, et al. **Virology** 1996 Aug 1; 222(1):133–43

HPV16 E6 oncoprotein stimulates the transforming growth factor-beta 1 promoter in fibroblasts through a specific GC-rich sequence. Dey A, et al. **Virology** 1997 Feb 17; 228(2):190–9

Suppression of potyvirus infection by coexpressed closterovirus protein. Dolja VV, et al. **Virology** 1997 Aug 4;234(2):243–52

Reciprocal regulation of the early promoter region of bacteriophage HP1 by the Cox and CI proteins. Esposito D, et al. **Virology** 1997 Aug 4;234(2):267–76

Activation of collagenase IV gene expression and enzymatic activity by the Moloney murine leukemia virus long terminal repeat. Faller DV, et al. **Virology** 1997 Jan 20; 227(2):331–42

Temperature-sensitive mutations in the protein kinase-1 (pk-1) gene of the Autographa californica nuclear polyhedrosis virus that block very late gene expression. Fan X, et al. **Virology** 1996 Oct 1;224(1):1–9

Characterization of Rev function using subgenomic and genomic constructs in T and COS cells. Favaro JP, et al. **Virology** 1997 Feb 3;228(1):29–38

The role of the AcMNPV 25K gene, "FP25," in baculovirus polh and p10 expression. Harrison RL, et al. **Virology** 1996 Dec 1;226(1):34–46

The Sendai virus C protein binds the L polymerase protein to inhibit viral RNA synthesis. Horikami SM, et al. **Virology** 1997 Sep 1;235(2):261–70

Identification of regions in HIV-1 Nef required for efficient downregulation of cell surface CD4. Hua J, et al. **Virology** 1997 May 12;231(2):231–8

Effects of adenovirus E1A protein on interferon-signaling. Leonard GT, et al. **Virology** 1996 Oct 1;224(1):25–33

Dual NF1-requiring effect of human neurotropic JC virus composite pentanucleotide repeat elements on early and late viral gene expression. Liu M, et al. **Virology** 1997 Jan 6;227(1):7–12

Activation of the hepatitis B virus S promoter by transcription factor NF-Y via a CCAAT element. Lu CC, et al. **Virology** 1996 Nov 15;225(2):387–94

Activity of vesicular stomatitis virus M protein mutants in cell rounding is correlated with the ability to inhibit host gene expression and is not correlated with virus assembly function. Lyles DS, et al. **Virology** 1997 Mar 3;229(1):77–89

Repression of p53 transcriptional activity by the HPV E7 proteins. Massimi P, et al. **Virology** 1997 Jan 6;227(1):255–9

Characterization of cell lines allowing tightly regulated expression of hepatitis C virus core protein. Moradpour D, et al. **Virology** 1996 Aug 1;222(1):51–63

Infected cell protein 22 of herpes simplex virus 1 regulates the expression of virion host shutoff gene U(L)41. Ng TI, et al. **Virology** 1997 Aug 4;234(2):226–34

Analysis of the 3' terminal sequence recognized by the Rift Valley fever virus transcription complex in its ambisense S segment. Prehaud C, et al. **Virology** 1997 Jan 6; 227(1):189–97

Characterization of regulatory functions of the HSV-1 immediate-early protein ICP22. Prod'hon C, et al. **Virology** 1996 Dec 15;226(2):393–402

Posttranscriptional regulation by Rev protein of human immunodeficiency virus type 1 results in nonrandom nuclear localization of gag mRNA. Romanov VI, et al. **Virology** 1997 Feb 17;228(2):360–70

Disruption of the varicella–zoster virus dUTPase and the adjacent ORF9A gene results in impaired growth and reduced syncytia formation in vitro. Ross J, et al. **Virology** 1997 Aug 4;234(2):186–95

Rates of shutdown of HIV–1 into latency: roles of the LTR and tat/rev/vpu gene region. Song SK, et al. **Virology** 1996 Nov 15;225(2):377–86

Construction and characterization of a recombinant herpes simplex virus type 1 which overexpresses the transrepressor protein ICPOR. Spatz SJ, et al. **Virology** 1997 Feb 17; 228(2):218–28

Comparison of the role of 5' terminal sequences of alfalfa mosaic virus RNAs 1, 2, and 3 in viral RNA replication. Van Rossum CM, et al. **Virology** 1997 Sep 1;235(2):333–41

Paracrine activation of the HIV–1 LTR promoter by the viral Tat protein is mechanistically similar to trans–activation within a cell. Verhoef K, et al. **Virology** 1996 Nov 15;225(2):316–27

Replacement of posttranscriptional regulation in SIVmac239 generated a Rev–independent infectious virus able to propagate in rhesus peripheral blood mononuclear cells. von Gegerfelt A, et al. **Virology** 1997 Jun 9;232(2):291–9

Inducible gene expression of the human immunodeficiency virus LTR in a replication–incompetent herpes simplex virus vector. Warden MP, et al. **Virology** 1996 Dec 1; 226(1):127–31

Human adenovirus type 5 variants with sequence alterations flanking the E2A gene: effects on E2 expression and DNA replication. Caravokyri C, et al. **Virus Genes** 1996; 12(1):65–75

Induction of the HPV16 enhancer activity by Jun–B and c–Fos through cooperation of the promoter–proximal AP–1 site and the epithelial cell type—specific regulatory element in fibroblasts. Kikuchi K, et al. **Virus Genes** 1996; 13(1):45–52

Characterization of revertants of a Sindbis virus 6K gene mutant that affects proteolytic processing and virus assembly. Ivanova L, et al. **Virus Res** 1995 Dec; 39(2–3):165–79

Expression and characterization of part of hog cholera virus non–structural proteins. Bakkali Kassimi L, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):167–77

Investigations of the Japanese bovine tumour virus (BLV)—its ability to express structural and regulatory BLV proteins. Blankenstein P, et al. **Zentralbl Veterinarmed [B]** 1996 Aug;43(6):343–9

[Expression of genes encoding animal herpesvirus glycoproteins in baculovirus] Bieńkowska–Szewczyk K, et al. **Postepy Hig Med Dosw** 1996;50(5):545–8 (Eng. Abstr.) **(Pol)**

[Cell–free system for RNA replication, expression and cloning] Chetverin AB. **Mol Biol (Mosk)** 1996 Sep–Oct; 30(5):981–90 (41 ref.) **(Rus)**

DRUG EFFECTS

Specific inhibition of hepatitis b virus gene expression by an antisense oligonucleotide in vitro. Yao ZQ, et al. **Acta Virol** 1995 Sep;39(4):227–230

CD8+ T–cell–mediated suppression of HIV–1 long terminal repeat–driven gene expression is not modulated by the CC chemokines RANTES, macrophage inflammatory protein (MIP)–1 alpha and MIP–1 beta. Leith JG, et al. **AIDS** 1997 Apr;11(5):575–80

trans–Activation of the HIV type 1 promoter by 7,8–dihydroneopterin in vitro. Baier–Bitterlich G, et al. **AIDS Res Hum Retroviruses** 1997 Jan 20;13(2):173–8

Inhibition of human cytomegalovirus immediate–early gene expression by an antisense oligonucleotide complementary to immediate–early RNA. Anderson KP, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2004–11

In vitro inhibition of hepatitis C virus gene expression by chemically modified antisense oligodeoxynucleotides. Vidalin O, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2337–44

Suppressive effects of destruxin B on hepatitis B virus surface antigen gene expression in human hepatoma cells. Chen HC, et al. **Antiviral Res** 1997 May;34(3):137–44

Specific inhibition of influenza virus RNA polymerase and nucleoprotein genes expression by liposomally endocapsulated antisense phosphorothioate oligonucleotides: penetration and localization of oligonucleotides in clone 76 cells. Hatta T, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):545–9

Inducibility of E4BP4 suggests a novel mechanism of negative gene regulation by glucocorticoids. Wallace AD, et al. **Biochem Biophys Res Commun** 1997 Mar 17; 232(2):403–6

P52PAI–1 gene expression in butyrate–induced flat revertants of v–ras–transformed rat kidney cells: mechanism of induction and involvement in the morphological response. Higgins PJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):431–7

Inducible gene expression from defective herpes simplex virus vectors using the tetracycline–responsive promoter system. Ho DY, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1–2):200–9

Tax–independent stimulation of human T–cell leukemia virus type–I expression and differential effects on its infectivity by subtoxic and toxic doses of 3–methylcholanthrene. Revazova T, et al. **Cell Mol Biol Res** 1995;41(5):377–85

Zidovudine phosphorylation after short–term and long–term therapy with zidovudine in patients infected with the human immunodeficiency virus. Peter K, et al. **Clin Pharmacol Ther** 1996 Aug;60(2):168–76

Effect of glucocorticoid hormones on viral gene expression, growth, and dysplastic differentiation in HPV16–immortalized ectocervical cells. Khare S, et al. **Exp Cell Res** 1997 May 1;232(2):353–60

Alpha–lipoic acid blocks HIV–1 LTR–dependent expression of hygromycin resistance in THP–1 stable transformants. Merin JP, et al. **FEBS Lett** 1996 Sep 23;394(1):9–13

Inducible retroviral vectors regulated by lac repressor in mammalian cells. Chang BD, et al. **Gene** 1996 Dec 12; 183(1–2):137–42

The T cell activation factor NF–ATc positively regulates HIV–1 replication and gene expression in T cells. Kinoshita S, et al. **Immunity** 1997 Mar;6(3):235–44

The keratinocyte–specific Epstein–Barr virus ED–L2 promoter is regulated by phorbol 12–myristate 13–acetate through two cis–regulatory elements containing E–box and Krüppel–like factor motifs. Jenkins TD, et al. **J Biol Chem** 1997 Sep 26;272(39):24433–42

Effect of methyltransferase inhibitors on the regulation of baculovirus protein synthesis. Bach C, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1025–32

Role of interferon–stimulated gene ISG–15 in the interferon–omega–mediated inhibition of human immunodeficiency virus replication. Künzi MS, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):919–27

Up–regulation of hormone response of human papillomavirus type 16 expression and increased DNA–protein binding by consensus mutations of viral glucocorticoid response elements. Khare S, et al. **J Med Virol** 1996 Nov; 50(3):254–62

Regulation of HIV–1 gene expression by NF–IL6. Tesmer VM, et al. **J Mol Biol** 1996 Sep 27;262(3):327–35

Niruriside, a new HIV REV/RRE binding inhibitor from Phyllanthus niruri. Qian–Cutrone J, et al. **J Nat Prod** 1996 Feb;59(2):196–9

Effects of melatonin on mammary gland lesions in transgenic mice overexpressing N–ras proto–oncogene. Mediavilla MD, et al. **J Pineal Res** 1997 Mar;22(2):86–94

The herpes simplex virus type 1 latency–associated transcript promoter is activated through Ras and Raf by nerve growth factor and sodium butyrate in PC12 cells. Frazier DP, et al. **J Virol** 1996 Nov;70(11):7424–32

Identification of cis–acting sequences in the promoter of the herpes simplex virus type 1 latency–associated transcripts required for activation by nerve growth factor and sodium butyrate in PC12 cells. Frazier DP, et al. **J Virol** 1996 Nov; 70(11):7433–44

Open reading frame 26 of human herpesvirus 8 encodes a tetradecanoyl phorbol acetate– and butyrate–inducible 32–kilodalton protein expressed in a body cavity–based lymphoma cell line. O'Neill E, et al. **J Virol** 1997 Jun; 71(6):4791–7

Negative regulation of immediate–early gene expression of pseudorabies virus by interferon–alpha. Tonomura N, et al. **Vet Microbiol** 1996 Dec;53(3–4):271–81

Selective inhibition of 1 kappaB alpha phosphorylation and HIV–1 LTR–directed gene expression by novel antioxidant compounds. Lee R, et al. **Virology** 1997 Aug 4; 234(2):277–90

The long terminal repeats of human immunodeficiency virus type–1 and human T–cell leukemia virus type–I are activated by 12–O–tetradecanoylphorbol–13–acetate through different pathways. Mor–Vaknin N, et al. **Virology** 1997 Jun 9;232(2):337–44

Cycloheximide inhibition of delayed early gene expression in baculovirus–infected cells. Ross L, et al. **Virology** 1997 May 26;232(1):105–13

AP–1 cis–response elements are involved in basal expression and Vmw110 transactivation of the large subunit of herpes simplex virus type 2 ribonucleotide reductase (ICP10). Zhu J, et al. **Virology** 1997 May 12;231(2):301–12

GENETICS

Activating protein–1 cooperates with phorbol ester activation signals to increase HIV–1 expression. Roebuck KA, et al. **AIDS** 1996 Jul;10(8):819–26

Direct evidence for the expression of multiple endogenous retroviruses in the synovial compartment in rheumatoid arthritis. Nakagawa K, et al. **Arthritis Rheum** 1997 Apr; 40(4):627–38

Polyomavirus–induced malignant transformation: comparative analysis of wild type and mutant middle T–overexpressing cell lines. Armelin MC, et al. **Braz J Med Biol Res** 1996 Sep;29(9):1133–40

Mutational analyses of differentiation–dependent human papillomavirus type 18 enhancer elements in epithelial raft cultures of neonatal foreskin keratinocytes. Parker JN, et al. **Cell Growth Differ** 1997 Jul;8(7):751–62

Expression of the papillomavirus E2 protein in HeLa cells leads to apoptosis. Desaintes C, et al. **EMBO J** 1997 Feb 3;16(3):504–14

Cyclophosphamide diminishes inflammation and prolongs transgene expression following delivery of adenoviral vectors to mouse liver and lung. Jooss K, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1555–66

Glioma cells transduced with an Escherichia coli CD/HSV–1 TK fusion gene exhibit enhanced metabolic suicide and radiosensitivity. Rogulski KR, et al. **Hum Gene Ther** 1997 Jan 1;8(1):73–85

Sequence elements downstream of the human immunodeficiency virus type 1 long terminal repeat are required for efficient viral gene transcription. Liang C, et al. **J Mol Biol** 1997 Sep 19;272(2):167–77

Inhibition of HIV–1 expression by HIV–2. Rappaport J, et al. **J Mol Med** 1995 Dec;73(12):583–9

Epstein–Barr Virus EBNA–2 gene expression enhances lymphotoxin production by B lymphocytes. McClain K, et al. **Methods** 1997 Jan;11(1):83–7

Host–cell–determined methylation of specific Epstein–Barr virus promoters regulates the choice between distinct viral latency programs. Schaefer BC, et al. **Mol Cell Biol** 1997 Jan;17(1):364–77

The alpha subunit of RNA polymerase and transcription antitermination. Schauer AT, et al. **Mol Microbiol** 1996 Aug;21(4):839–51

Escherichia coli OxyR protein represses the unmethylated bacteriophage Mu mom operon without blocking binding of the transcriptional activator C. Sun W, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):4042–9

Expression pattern of HIV–1 coreceptors on T cells: implications for viral transmission and lymphocyte homing [comment] Unutmaz D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1615–8. Comment on: Proc Natl Acad Sci U S A 1997 Mar 4;94(5):1925–30.

An infectious arterivirus cDNA clone: identification of a replicase point mutation that abolishes discontinuous mRNA transcription. van Dinten LC, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):991–6

Antisense RNA control of gene expression in bacteriophage P22. I. Structures of sar RNA and its target, ant mRNA. Schaefer KL, et al. **RNA** 1997 Feb;3(2):141–56

Antisense RNA control of gene expression in bacteriophage P22. II. Kinetic mechanism and cation specificity of the pairing reaction. Schaefer KL, et al. **RNA** 1997 Feb; 3(2):157–74

Construction and characterization of herpes simplex virus type 1 mutants with conditional defects in immediate early gene expression. Preston CM, et al. **Virology** 1997 Mar 3; 229(1):228–39

["X"—the last unknown of hepatitis B virus? Gene X and products of its expression] Sidorkiewicz M. **Postepy Biochem** 1997;43(1):25–30 (51 ref.) **(Pol)**

IMMUNOLOGY

Aleutian mink disease parvovirus infection of K562 cells is antibody–dependent and is mediated via an Fc(gamma)RII receptor. Dworak LJ, et al. **Arch Virol** 1997;142(2):363–73

TCR–independent CD28–mediated gene expression in peripheral blood lymphocytes from donors chronically infected with HIV–1. Wong JG, et al. **Immunology** 1997 Feb;90(2):281–5

Marek's disease virus EcoRI–Q gene (meq) and a small RNA antisense to ICP4 are abundantly expressed in CD4+ cells and cells carrying a novel lymphoid marker, AV37, in Marek's disease lymphomas. Ross N, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2191–8

Genes for chemokines MuMig and Crg–2 are induced in protozoan and viral infections in response to IFN–gamma with patterns of tissue expression that suggest nonredundant roles in vivo. Amichay D, et al. **J Immunol** 1996 Nov 15;157(10):4511–20

Respiratory syncytial virus infection of human respiratory epithelial cells up–regulates class I MHC expression through the induction of IFN–beta and IL–1 alpha. Garofalo R, et al. **J Immunol** 1996 Sep 15;157(6):2506–13

Regulation of IFN–alpha/beta, MxA, 2',5'–oligoadenylate synthetase, and HLA gene expression in influenza A–infected human lung epithelial cells. Ronni T, et al. **J Immunol** 1997 Mar 1;158(5):2363–74

Comparison of the protective efficacy of recombinant pseudorabies viruses against pseudorabies and classical swine fever in pigs; influence of different promoters on gene expression and on protection. Hooft van Iddekinge BJ, et al. **Vaccine** 1996 Jan;14(1):6–12

PHYSIOLOGY

Role of host proteins in gene expression of nonsegmented negative strand RNA viruses. De BP, et al. **Adv Virus Res** 1997;48:169–204 (141 ref.)

Adenovirus–mediated expression of a reporter gene in thalamocortical cocultures. Wilkemeyer MF, et al. **Brain Res** 1995 Dec 12;703(1–2):129–38

Down–regulation of cytokeratin 14 gene expression by the polyoma virus middle T antigen is dependent on c–Src association but independent of full transformation in rat liver nonparenchymal epithelial cells. Royal I, et al. **Cell Growth Differ** 1996 Jun;7(6):737–43

T antigen of human papovavirus JC stimulates transcription of the POU domain factor Tst–1/Oct6/SCIP. Renner K, et al. **DNA Cell Biol** 1996 Dec;15(12):1057–62

Molecular analysis of T lymphocyte–directed gene therapy for adenosine deaminase deficiency: long–term expression in vivo of genes introduced with a retroviral vector. Mullen CA, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1123–9

A retroviral vector that allows efficient co–expression of two genes and the versatility of alternate selection markers. Saleh M. **Hum Gene Ther** 1997 May 20;8(8):979–83

Long-term expression of the hepatitis B virus core-e- and X-proteins does not cause pathologic changes in transgenic mice. Reifenberg K, et al. **J Hepatol** 1997 Jan;26(1):119–30

Therapeutic antitumor response after immunization with an admixture of recombinant vaccinia viruses expressing a modified MUC1 gene and the murine T-cell costimulatory molecule B7. Akagi J, et al. **J Immunother** 1997 Jan; 20(1):38–47

Cell type-specific mechanisms regulate hepatitis B virus transgene expression in liver and other organs. Aragona E, et al. **J Pathol** 1996 Dec;180(4):441–9

Characterization of the bovine prion protein gene: the expression requires interaction between the promoter and intron. Inoue S, et al. **J Vet Med Sci** 1997 Mar;59(3):175–83

What happens inside lentivirus or influenza virus infected cells: insights into regulation of cellular and viral protein synthesis. Gale M Jr, et al. **Methods** 1997 Apr;11(4):383–401

Use of viral replicons for the expression of genes in plants. Porta C, et al. **Mol Biotechnol** 1996 Jun;5(3):209–21 (73 ref.)

POU-domain factor expression in the trigeminal ganglion and implications for herpes virus regulation. Turner EE, et al. **Neuroreport** 1996 Nov 25;7(18):2829–32

Inhibition of vaccinia virus replication by N-(phosphonoacetyl)-L-aspartate: differential effects on viral gene expression result from a reduced pyrimidine nucleotide pool. Katsafanas GC, et al. **Virology** 1997 Sep 15;236(1):177–87

Potency of wild-type and temperature-sensitive vesicular stomatitis virus matrix protein in the inhibition of host-directed gene expression. Lyles DS, et al. **Virology** 1996 Nov 1;225(1):172–80

GENE FREQUENCY

Frequently occurring germ-line mutations of the BRCA1 gene in ovarian cancer families from Russia [letter] Gayther SA, et al. **Am J Hum Genet** 1997 May;60(5):1239–42

Estimating the age of alleles by use of intraallelic variability. Slatkin M, et al. **Am J Hum Genet** 1997 Feb;60(2):447–58

Allelic disequilibrium and allele frequency distribution as a function of social and demographic history. Thompson EA, et al. **Am J Hum Genet** 1997 Jan;60(1):197–204

Study of a single BRCA2 mutation with high carrier frequency in a small population [see comments] Thorlacius S, et al. **Am J Hum Genet** 1997 May;60(5):1079–84. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Genetic relationships of Asians and Northern Europeans, revealed by Y-chromosomal DNA analysis. Zerjal T, et al. **Am J Hum Genet** 1997 May;60(5):1174–83

Genetics, geography, and culture: the population of S. Pietro Island (Sardinia, Italy). Vona G, et al. **Am J Phys Anthropol** 1996 Aug;100(4):461–71

The role of preoperative factor V Leiden screening in different geographic populations. Burick A, et al. **Am Surg** 1997 Jun;63(6):547–50

Dynamic mutation loci: allele distributions in different populations. Richards RI, et al. **Ann Hum Genet** 1996 Sep; 60 (Pt 5):391–400

High frequency of apolipoprotein E epsilon 2 allele in hemorrhage due to cerebral amyloid angiopathy [see comments] Nicoll JA, et al. **Ann Neurol** 1997 Jun; 41(6):716–21. Comment in: Ann Neurol 1997 Jun;41(6):701–2.

Population genetics and gene variation in screwworms (Diptera: Calliphoridae) from Brazil. Taylor DB, et al. **Biochem Genet** 1996 Feb;34(1–2):67–76

Glanzmann thrombasthenia caused by an 11.2-kb deletion in the glycoprotein IIIa (beta3) is a second mutation in Iraqi Jews that stemmed from a distinct founder. Rosenberg N, et al. **Blood** 1997 May 15;89(10):3654–62

Sequence, splice site and population frequency distribution analyses of the polymorphic human tryptophan hydroxylase intron 7. Nielsen DA, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):145–8

p53 haplotype determination in breast cancer. Weston A, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):105–12

Genetic variation of the angiotensin-converting enzyme gene: increased frequency of the insertion allele in Koreans. Hong SH, et al. **Clin Genet** 1997 Jan;51(1):35–8

A general algorithm to compute multilocus genotype frequencies under various mating systems. Hospital F, et al. **Comput Appl Biosci** 1996 Dec;12(6):455–62

The origin of the sickle cell gene [editorial] Aluoch JR. **East Afr Med J** 1996 Sep;73(9):565

Population genetic comparisons among eight populations using allele frequency and sequence data from three microsatellite loci. Brinkmann B, et al. **Eur J Hum Genet** 1996;4(3):175–82

Arylsulfatase A pseudodeficiency—incidence in Poland. Czartoryska B, et al. **Eur J Hum Genet** 1996;4(5):301–3

Gene frequency and linkage disequilibrium analysis of HLA-DRB1*04 haplotypes in a south Wales population. Young NT, et al. **Eur J Immunogenet** 1994 Feb;21(1):15–22

HLA class II gene frequency in a Czech Population. Loudová M, et al. **Folia Biol (Praha)** 1996;42(5):241–4

Spanish population data on seven loci: D1S80, D17S5, HUMTH01, HUMVWA, ACTBP2, D21S11 and HLA-DQA1. Lorente M, et al. **Forensic Sci Int** 1997 May 5;86(3):163–71

Distribution of HLA DQ A1 alleles and genotypes in two Spanish populations (Aragon and Asturias). Martínez-Jarreta B, et al. **Forensic Sci Int** 1996 Aug 15; 81(2–3):185–90

Serum butyrylcholinesterase (CHE1) polymorphism in a Chilean population of mixed ancestry. Acuña M, et al. **Gene Geogr** 1996 Dec;10(3):161–5

Kell and Xg gene frequencies in Algeria. Aireche H, et al. **Gene Geogr** 1995 Dec;9(3):177–84

Phosphoglycolate phosphatase polymorphism (PGP) in the Bologna population: a rapid method and an analysis of world gene frequencies. Castri L, et al. **Gene Geogr** 1996 Apr;10(1):37–49

HLA gene frequencies and migration in an Italian province. De Silvestri A, et al. **Gene Geogr** 1996 Dec;10(3):207–17

PI locus (alpha-1-antitrypsin) allelic frequencies in an Andean Venezuelan population. Fonseca-Pérez T, et al. **Gene Geogr** 1996 Aug;10(2):65–74

Cystic Fibrosis in Ukraine: age, origin and tracing of the delta F508 mutation. Livshits LA, et al. **Gene Geogr** 1996 Dec;10(3):219–27

Geographic variation analysis of the ABO and RH systems in Turkey. Onde S, et al. **Gene Geogr** 1995 Dec;9(3):211–20

Blood group polymorphisms in the Canary Islands. Pinto F, et al. **Gene Geogr** 1996 Dec;10(3):171–9

Type distribution and allele frequencies of three serum proteins in the Asiago Plateau population (northern Italy). Ponzano E, et al. **Gene Geogr** 1996 Aug;10(2):147–50

The distribution of the ABO and Rhesus blood groups (phenotype and allele frequencies) in the populations of Cyprus. Poumpouridou A, et al. **Gene Geogr** 1995 Dec; 9(3):197–205

Allele frequency distributions at seven DNA hypervariable loci in a population sample from Calabria (southern Italy). Rose G, et al. **Gene Geogr** 1996 Aug;10(2):135–45

Hemogenetic studies in southern Germany. Schmidt HD, et al. **Gene Geogr** 1996 Dec;10(3):191–200

Distribution of placental alkaline phosphatase (PLAP) gene frequencies in Andhra Pradesh (south India). Swamy TV, et al. **Gene Geogr** 1996 Aug;10(2):79–81

Exact transmission-disequilibrium tests with multiallelic markers. Cleves MA, et al. **Genet Epidemiol** 1997; 14(4):337–47

The use of selection experiments for detecting quantitative trait loci. Ollivier L, et al. **Genet Res** 1997 Jun;69(3):227–32

A correction to the exact test based on the Ewens sampling distribution. Slatkin M. **Genet Res** 1996 Dec;68(3):259–60

A note on the change in gene frequency of a selected allele in partial full-sib mating populations [letter] Caballero A. **Genetics** 1996 Feb;142(2):649–50

Description and power analysis of two tests for detecting recent population bottlenecks from allele frequency data. Cornuet JM, et al. **Genetics** 1996 Dec;144(4):2001–14

Impact of migration and fitness on the stability of lethal t-haplotype polymorphism in Mus musculus: a computer study. Durand D, et al. **Genetics** 1997 Apr;145(4):1093–108 (38 ref.)

Demographic genetics of brown trout (Salmo trutta) and estimation of effective population size from temporal change of allele frequencies. Jorde PE, et al. **Genetics** 1996 Jul;143(3):1369–81

Genetic differentiation and estimation of gene flow from F-statistics under isolation by distance. Rousset F. **Genetics** 1997 Apr;145(4):1219–28

Inferring patterns of migration from gene frequencies under equilibrium conditions. Tufto J, et al. **Genetics** 1996 Dec; 144(4):1911–21

Low frequency of microsatellites in the avian genome. Primmer CR, et al. **Genome Res** 1997 May;7(5):471–82

Evidence that the HLA DQA1*03 allele confers protection from chronic HCV-infection in Northern European Caucasoids. Tibbs C, et al. **Hepatology** 1996 Dec; 24(6):1342–5

Fine structure of gene frequency landscapes in domestic cat: the Old and New Worlds compared. Vinogradov AE. **Hereditas** 1997;126(1):95–102

Pattern of gradient of apolipoprotein E allele *4 frequencies in western Europe. Lucotte G, et al. **Hum Biol** 1997 Apr; 69(2):253–62

Immunoglobulin haplotype frequencies in Anabaptist population samples: Kansas and Nebraska Mennonites and Indiana Amish. Martin K, et al. **Hum Biol** 1996 Feb; 68(1):45–62

Genetic structure of the Manne Dora, a tribal population of Andhra Pradesh. Ramana GV, et al. **Hum Biol** 1996 Feb;68(1):63–74

Genetic drift can obscure population history: problem and solution. Relethford JH. **Hum Biol** 1996 Feb;68(1):29–44

Genetic drift and gene flow in post-famine Ireland. Relethford JH, et al. **Hum Biol** 1997 Aug;69(4):443–65

High frequency of the apolipoprotein E *4 allele in African pygmies and most of the African populations in sub-Saharan Africa. Zekraoui L, et al. **Hum Biol** 1997 Aug; 69(4):575–81

Association between common alleles of the low-density lipoprotein receptor gene region and interindividual variation in plasma lipid and apolipoprotein levels in a population-based sample from Rochester, Minnesota. Haviland MB, et al. **Hum Genet** 1997 Jan;99(1):108–14

ABO, Rh and Kell frequency distribution in a sample population of Terni province, Italy. Cassetti M, et al. **Hum Hered** 1996 Jul-Aug;46(4):205–10

Detection of new variants in the apolipoprotein B (Apo B) gene by PCR-SSCP. Poirier O, et al. **Hum Mutat** 1996; 8(3):282–5

Sickle cell trait & disease among tribal communities in Orissa, Madhya Pradesh & Kerala. Kaur M, et al. **Indian J Med Res** 1997 Mar;105:111–6

Lipoprotein lipase gene variants and risk of coronary disease: a quantitative analysis of population-based studies. Hokanson JE. **Int J Clin Lab Res** 1997;27(1):24–34

Apolipoprotein E and the cost of Alzheimer's disease [letter] Frisoni GB, et al. **Int J Geriatr Psychiatry** 1997 May; 12(5):588–9

Frequency of factor V Leiden in Turkey [letter] Ozbek U, et al. **Int J Hematol** 1996 Oct;64(3–4):291–2

Forensic evaluation of HUMCD4: an Italian database. Casarino L, et al. **Int J Legal Med** 1996;109(1):49–51

F13B and CD4 allele frequencies in south west Switzerland. Dimo-Simonin N, et al. **Int J Legal Med** 1997;110(2):109

A highly variable STR at the D12S391 locus. Lareu MV, et al. **Int J Legal Med** 1996;109(3):134–8

Analysis of the STR loci HUMF13A01, HUMFXIIIB, HUMLIPOL, HUMTH01, HUMTPOX and HUMVWFA31 in a Japanese population. Nagai A, et al. **Int J Legal Med** 1996;109(1):34–6

Population genetic study of the AmpFLP system APO B in an Austrian population sample. Neuhuber F, et al. **Int J Legal Med** 1996;109(1):45–6

Population studies of three AMPFLPs systems in a north Polish population. Pawlowski R, et al. **Int J Legal Med** 1996;109(3):155–6

Identification of a base pair substitution at the tetranucleotide tandem repeat locus DHFRP2 (AAAC)n in a worldwide survey. Pérez-Lezaun A, et al. **Int J Legal Med** 1996; 109(3):159–60

French Caucasian population data obtained from fluorescently detected HUMvWFA31/A and HUMF13A01 short tandem repeat loci. Rousselet F, et al. **Int J Legal Med** 1996;109(1):5–9

Italian population data on the loci LDLR, GYPA, HBGG, D7S8 and GC. Tagliabracci A, et al. **Int J Legal Med** 1996; 109(3):161–2

The effect of ethnic and racial population substructuring on the estimation of multi-locus fixed-bin VNTR RFLP genotype probabilities. Hartmann JM, et al. **J Forensic Sci** 1997 Mar;42(2):232–40

The distribution of the vWF alleles and genotypes in the Palestinian population. Khatib H, et al. **J Forensic Sci** 1997 May;42(3):504–5

Population data on the loci LDLR, GYPA, HBGG, D7S8, and GC in three southwest European populations. Rodriguez-Calvo MS, et al. **J Forensic Sci** 1996 Mar; 41(2):291–6

Italian population allele and genotype frequencies for the AmpliType PM and the HLA-DQ-alpha loci. Spinella A, et al. **J Forensic Sci** 1997 May;42(3):514–8

HLA phenotype frequencies in pulmonary tuberculosis. Ghosal AG, et al. **J Indian Med Assoc** 1996 Sep; 94(9):328–30

Allele frequency and its forensic application of STR Y27 in Korean males. Lee SD, et al. **J Korean Med Sci** 1996 Oct;11(5):386–9

Neonatal screening for hereditary fructose intolerance: frequency of the most common mutant aldolase B allele (A149P) in the British population. James CL, et al. **J Med Genet** 1996 Oct;33(10):837–41

Global prevalence of putative haemochromatosis mutations. Merryweather-Clarke AT, et al. **J Med Genet** 1997 Apr; 34(4):275–8

Human leukocyte antigen frequencies in a selected group of Lebanese Greek Orthodox. Malak RR, et al. **J Med Liban** 1997;45(2):78–83

Mistyping of the human angiotensin-converting enzyme gene polymorphism: frequency, causes and possible methods to avoid errors in typing. Ueda S, et al. **J Mol Endocrinol** 1996 Aug;17(1):27–30

Role of random genetic drift in the evolution of interactive systems. Ohta T. **J Mol Evol** 1997;44 Suppl 1:S9–14

Population genetic studies of HLA-G: allele frequencies and linkage disequilibrium with HLA-A1 [published erratum appears in J Reprod Immunol 1997 Apr;33(1):89–90] Ober C, et al. **J Reprod Immunol** 1996 Dec;32(2):111–23

Incidence of dogs possessing red blood cells with high K in Japan and East Asia. Fujise H, et al. **J Vet Med Sci** 1997 Jun;59(6):495–7

Prevalence and allele frequency estimation of bovine leukocyte adhesion deficiency (BLAD) in Holstein-Friesian cattle in Japan. Nagahata H, et al. **J Vet Med Sci** 1997 Apr;59(4):233–8

Genetic drift can dominate short-term human immunodeficiency virus type 1 nef quasispecies evolution in vivo. Plikat U, et al. **J Virol** 1997 Jun;71(6):4233–40

Comparison of insertion rate of L1 retroposon into intron 30 of the neurofibromatosis type 1 gene in seven Asian and Pacific populations. Shirakawa T, et al. **Jpn J Hum Genet** 1996 Mar;41(1):209–14

Allele frequencies of intragenic, and 5' and 3' markers of the dystrophin gene in Japanese families afflicted with Duchenne or Becker muscular dystrophy. Tsukamoto H, et al. **Jpn J Hum Genet** 1996 Dec;41(4):391–7

Elevated frequency of the C2 allele of the ETS-1 oncogene in elderly subjects. Crossen PE, et al. **Mech Ageing Dev** 1996 Jul 5;88(1–2):61–5

When a 'match' is not a genetic match [letter] Gill P, et al. **Med Sci Law** 1997 Jan;37(1):88–9

GENE FREQUENCY

Allele frequency distributions at several variable number of tandem repeat (VNTR) and short tandem repeat (STR) loci in a restricted Caucasian population from south Italy and their evaluation for paternity and forensic use. Pastore L, et al. **Mol Cell Probes** 1996 Aug;10(4):299–308

Inherited resistance to HIV–1 conferred by an inactivating mutation in CC chemokine receptor 5: studies in populations with contrasting clinical phenotypes, defined racial background, and quantified risk. Zimmerman PA, et al. **Mol Med** 1997 Jan;3(1):23–36

Apolipoprotein E allele frequencies in sporadic inclusion body myositis. Love S, et al. **Muscle Nerve** 1996 Dec; 19(12):1605–7

Mitochondrial DNA gets the drift [news; comment] Clayton DA. **Nat Genet** 1996 Oct;14(2):123–5. Comment on: Nat Genet 1996 Oct;14(2):146–51.

Random genetic drift in the female germline explains the rapid segregation of mammalian mitochondrial DNA [see comments] Jenuth JP, et al. **Nat Genet** 1996 Oct; 14(2):146–51. Comment in: Nat Genet 1996 Oct;14(2):123–5.

Frequency of recurrent BRCA1 and BRCA2 mutations in Ashkenazi Jewish breast cancer families [see comments] Tonin P, et al. **Nat Med** 1996 Nov;2(11):1179–83 (25 ref.) . Comment in: Nat Med 1996 Nov;2(11):1162.

Apolipoprotein E genotype in schizophrenia: frequency, age of onset, and neuropathologic features. Arnold SE, et al. **Neuroreport** 1997 Apr 14;8(6):1523–6

The deletion allele of the angiotensin I converting enzyme gene as a genetic susceptibility factor for cognitive impairment. Amouyel P, et al. **Neurosci Lett** 1996 Oct 18; 217(2–3):203–5

Apolipoprotein E e4 allele frequency in patients with multiple system atrophy. Cairns NJ, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):161–4

The allele frequency distribution at VNTR locus D17S5 (YNZ22) in a Japanese population sample. Harashima N, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):237–40

STR typing of buccal swabs for paternity testing with reference to Japanese population data on the D20S85, D14S118, and D14S543 loci. Okazaki K, et al. **Nippon Hoigaku Zasshi** 1996 Dec;50(6):404–11

Analysis of the short tandem repeat systems HUMF13B and HUMvWF in Chinese (Liaoning). Wang X, et al. **Nippon Hoigaku Zasshi** 1996 Oct;50(5):357–60

Genomic drift of Toxoplasma gondii. Frenkel JK, et al. **Parasitol Res** 1997;83(1):1–5 (30 ref.)

Determining relative microsatellite allele frequencies in pooled DNA samples. Khatib H, et al. **PCR Methods Appl** 1994 Aug;4(1):13–8

Identification and prevalence study of 17 allelic variants of the human NAT2 gene in a white population. Agúndez JA, et al. **Pharmacogenetics** 1996 Oct;6(5):423–8

Frequencies of the defective CYP2C19 alleles responsible for the mephenytoin poor metabolizer phenotype in various Oriental, Caucasian, Saudi Arabian and American black populations. Goldstein JA, et al. **Pharmacogenetics** 1997 Feb;7(1):59–64

Polymorphism of the cytochrome P450 CYP2D6 gene in a European population: characterization of 48 mutations and 53 alleles, their frequencies and evolution. Marez D, et al. **Pharmacogenetics** 1997 Jun;7(3):193–202

CYP2C19 genotype and phenotype determined by omeprazole in a Korean population. Roh HK, et al. **Pharmacogenetics** 1996 Dec;6(6):547–51

Allele frequency of CYP2C19 in a Portuguese population. Ruas JL, et al. **Pharmacogenetics** 1997 Aug;7(4):333–5

Increased frequency of a null-allele for NAD(P)H: quinone oxidoreductase in patients with urological malignancies. Schulz WA, et al. **Pharmacogenetics** 1997 Jun;7(3):235–9

Genetic polymorphism of catechol-O-methyltransferase (COMT): correlation of genotype with individual variation of S-COMT activity and comparison of the allele frequencies in the normal population and parkinsonian patients in Finland. Syvänen AC, et al. **Pharmacogenetics** 1997 Feb;7(1):65–71

Polymorphic N-acetyltransferase (NAT2) genotyping of Emiratis. Woolhouse NM, et al. **Pharmacogenetics** 1997 Feb;7(1):73–82

Frequencies and genetic diversity of major histocompatibility complex class II haplotypes in commercial turkey lines. Zhu J, et al. **Poult Sci** 1996 Aug;75(8):954–8

An apportionment of human DNA diversity. Barbujani G, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4516–9

Human leucocyte antigen (HLA) frequencies in rural Venda [letter] Coetzee MJ, et al. **S Afr Med J** 1997 Feb;87(2):183–4

Dynamics and equilibrium behavior of cytonuclear disequilibria under genetic drift, mutation, and migration. Datta S, et al. **Theor Popul Biol** 1996 Dec;50(3):298–324

High resolution HLA–C typing by PCR–SSP: identification of allelic frequencies and linkage disequilibria in 604 unrelated random UK Caucasoids and a comparison with serology [corrected and republished in Tissue Antigens 1997 Jul;50(1):100–11] Bunce M, et al. **Tissue Antigens** 1996 Dec;48(6):680–91

Unique HLA antigen frequencies in the Finnish population. Sirén MK, et al. **Tissue Antigens** 1996 Dec;48(6):703–7

Development of PCR–SSOP for the identification of HLA–A*02 subtypes and determination of HLA–A*02 frequencies within different ethnic populations. Williams F, et al. **Tissue Antigens** 1997 Feb;49(2):129–33

The distribution of the MilII (Gp.Mur) phenotype among the population of Taiwan. Broadberry RE, et al. **Transfus Med** 1996 Jun;6(2):145–8

Comparison of the Lewis phenotypes among the different population groups of Taiwan. Broadberry RE, et al. **Transfus Med** 1996 Sep;6(3):255–60

HLA class II profile of a Polish population: frequencies of DRB1, DQA1, DQB1, and DPB1 alleles and DRB1–DQA1–DQB1 haplotypes. Ploski R, et al. **Transplant Proc** 1996 Dec;28(6):3431–2

Genotype frequencies of the human platelet antigen, Ca/Tu, in Japanese, determined by a PCR–RFLP method. Tanaka S, et al. **Vox Sang** 1996;70(1):40–4

Spatial autocorrelation analysis reveals that A, B and O allele frequency surfaces on the Indian subcontinent are highly fractured. Mukherjee BN, et al. **Z Morphol Anthropol** 1995 Dec;81(1):33–9

[Causal mutation or rare polymorphism? Frequency of mutation not found in 3 chromosome is less than 3 divided by n] Jeanpierre M. **Ann Genet** 1996;39(3):133–8 (Eng. Abstr.) **(Fre)**

[Apolipoprotein E epsilon 4 allel frequencies, plasma alpha 2–macroglobulin and plasminogen activator inhibitor 1 levels in residents of a rural area in Gunma prefecture] Muramatsu S, et al. **Nippon Ronen Igakkai Zasshi** 1997 Mar; 34(3):196–201 (Eng. Abstr.) **(Jpn)**

[Retrospective estimation of the frequency of heterozygous beta–thalassemia in the Crimean Tartar population. Formulation of the problem. Estimation of the gametic contribution to a mixed population from frequencies of the ABO blood group genes] Asanov AIu, et al. **Genetika** 1996 Dec;32(12):1683–6 (Eng. Abstr.) **(Rus)**

[Retrospective estimation of the frequency of heterozygous beta–thalassemia in the Crimean Tatar population. Estimation of gene frequency in the ancestral population based on mixed population data with a known admixture rate] Asanov AIu, et al. **Genetika** 1996 Dec;32(12):1687–9 (Eng. Abstr.) **(Rus)**

[Geography of effective size in the rural population of northern Eurasia: effective size and the intensity of random genetic drift] Evsiukov AN, et al. **Genetika** 1996 Oct; 32(10):1396–405 (Eng. Abstr.) **(Rus)**

[Dynamics of the haplotype frequencies in populations: study using the Monte Carlo method] Grigorenko EL, et al. **Genetika** 1996 Dec;32(12):1705–13 (Eng. Abstr.) **(Rus)**

[Detection of the adaptive significance of human blood group polymorphism by analyzing a series of loci. Level of heterozygosity and variety of phenotypes in two generations] Kurbatova OL. **Genetika** 1996 Jul; 32(7):996–1006 (Eng. Abstr.) **(Rus)**

[Similarity of geographic distribution of frequencies of p(c) allele of erythrocyte acid phosphatase and BamHI–3/MspI–4 types of mitochondrial DNA in Caucasoid human populations] Maliarchuk BA. **Genetika** 1997 Mar;33(3):393–8 (Eng. Abstr.) **(Rus)**

[Features of the distribution of haplotype phenotypes and genes in the Armenian population] Nersisian VM, et al. **Genetika** 1996 Dec;32(12):1673–7 (Eng. Abstr.) **(Rus)**

Frequency distribution of HLA-antigens, genes and haplotypes in the migrant population of Magadan as a function of length of residence in the region] Pereverzeva VV, et al. **Genetika** 1996 Sep;32(9):1270–6 (Eng. Abstr.) **(Rus)**

[Ethnogenetics of the Komi–Zyrians according to data on the distribution of gene frequencies of erythrocyte and serum systems in the blood] Shubin PN, et al. **Genetika** 1997 Feb;33(2):235–42 (Eng. Abstr.) **(Rus)**

[Genetic aspects of endometriosis: features of the distribution of polymorphic gene frequencies] Spitsyn VA, et al. **Genetika** 1996 Dec;32(12):1693–9 (Eng. Abstr.) **(Rus)**

[Genes of negroid origin in the urban population of Santiago] Etcheverry R. **Rev Med Chil** 1995 Nov;123(11):1423 **(Spa)**

[Most frequent beta–thalassemia mutations in the Argentinian population] Varela V, et al. **Sangre (Barc)** 1996 Apr; 41(2):137–40 (Eng. Abstr.) **(Spa)**

GENETICS

Frequency of deletional alpha–thalassemia genotypes in a predominantly Asian–American population. Hofgärtner WT, et al. **Am J Clin Pathol** 1997 May;107(5):576–81

Comparison of Hae–III–generated VNTR profiles of Chinese in Hong Kong and Singapore. Chow ST, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):60–4

DNA identification [letter; comment] Morton NE. **Am J Hum Genet** 1996 Dec;59(6):1398–400. Comment on: Am J Hum Genet 1996 Feb;58(2):398–407.

Genetic polymorphisms of the Basques from Gipuzkoa: genetic heterogeneity of the Basque population. Manzano C, et al. **Ann Hum Biol** 1996 Jul–Aug;23(4):285–96

Spurious associations in unreplicated selected lines. Henderson ND. **Behav Genet** 1997 Mar;27(2):145–54

T cell receptor (TCR) BV gene repertoires and clonal expansions of CD4 cells in patients with HIV infections. Roglic M, et al. **Clin Exp Immunol** 1997 Jan;107(1):21–30

On the simulation of biological diffusion processes. Tuckwell HC, et al. **Comput Biol Med** 1997 Jan;27(1):1–7

Physiological and genetic characterization of the Gly40Ser mutation in the glucagon receptor gene in the Sardinian population. The Sardinian Diabetes Genetic Study Group. Tonolo G, et al. **Diabetologia** 1997 Jan;40(1):89–94

Selection of neutralizing antibody escape mutants with type A influenza virus HA-specific polyclonal antisera: possible significance for antigenic drift. Cleveland SM, et al. **Epidemiol Infect** 1997 Apr;118(2):149–54

Clonal analysis of immunoglobulin mRNA in rheumatoid arthritis synovium: characterization of expanded IgG3 populations. Williams DG, et al. **Eur J Immunol** 1997 Feb; 27(2):476–85

The frequency of medium-chain acyl-CoA dehydrogenase G985 mutation in the Hungarian population [letter] Szalai C, et al. **Eur J Pediatr** 1996 Mar;155(3):256

Frequency distribution of D1S80 alleles in the northern Thai population analyzed by amplified fragment length polymorphism technique. Bhoopat T, et al. **Forensic Sci Int** 1996 Aug 15;81(2–3):149–55

Allele frequency distributions of D1S80 in the Polish population. Ciesielka M, et al. **Forensic Sci Int** 1996 Aug 15;81(2–3):141–7

Northern and southern Croatian population data on seven PCR–based loci. Keys KM, et al. **Forensic Sci Int** 1996 Aug 15;81(2–3):191–9

Distribution of HLA–DQA1 alleles in Arab and Pakistani individuals from Dubai, United Arab Emirates. Tahir MA, et al. **Forensic Sci Int** 1997 Mar 14;85(3):219–23

Nucleotide substitution in the 5' flanking region of D1S80 locus. Watanabe G, et al. **Forensic Sci Int** 1997 Sep 19; 89(1–2):75–80

Interactions of selection, linkage and drift in the dynamics of polygenic characters. Hospital F, et al. **Genet Res** 1996 Feb;67(1):77–87

Population history of north Africa: evidence from classical genetic markers. Bosch E, et al. **Hum Biol** 1997 Jun; 69(3):295–311

Gene frequency clines produced by kin-structured founder effects. Fix AG. **Hum Biol** 1997 Oct;69(5):663–73

G542X as a probable Phoenician cystic fibrosis mutation. Loirat F, et al. **Hum Biol** 1997 Jun;69(3):419–25

Serological analysis of the Abbad Tribe of Jordan. Nabulsi AJ, et al. **Hum Biol** 1997 Jun;69(3):357–73

New method for comparing levels of microdifferentiation: application to migration matrices of two populations from the Basque Country (Spain). Peña JA, et al. **Hum Biol** 1997 Jun;69(3):329–44

Genetics of the Chuetas (Majorcan Jews): a comparative study. Picornell A, et al. **Hum Biol** 1997 Jun;69(3):313–28

Apolipoprotein B and E genetic polymorphisms in the Cayapa Indians of Ecuador. Scacchi R, et al. **Hum Biol** 1997 Jun;69(3):375–82

Restriction of V beta gene usage of liver-derived lymphocytes in chronic hepatitis B and C. Pham BN, et al. **Hum Immunol** 1996 Aug;49(1):56–63

Minimal phenotype panels. A method for achieving maximum population coverage with a minimum of HLA antigens. Schipper RF, et al. **Hum Immunol** 1996 Dec; 51(2):95–8

Frequencies of the blood groups ABO, Rhesus, D category VI, Kell, and of clinically relevant high-frequency antigens in south-western Germany. Wagner FF, et al. **Infusionsther Transfusionsmed** 1995 Oct;22(5):285–90

Allele frequency distributions of 13 PCR–based systems in a population from North–East Spain. Crespillo M, et al. **Int J Legal Med** 1997;110(4):223–5

The STR systems HumVWA and HumACTBP2 in a Hungarian population. Csete K, et al. **Int J Legal Med** 1996; 108(6):316–7

Population study of the STRs HUMCD4 and HUMF13A1 in Catalonia (Northeast Spain). Gené M, et al. **Int J Legal Med** 1997;110(1):44–5

HLA–DQA1 in autochthonous Basques: description of a genocline for the DQA1*0201 allele in Europe. Iriondo M, et al. **Int J Legal Med** 1996;109(4):181–5

D1S80 (pMCT118) allele frequencies in a Malay population sample from Malaysia. Koh CL, et al. **Int J Legal Med** 1997;110(1):39–40

ACTBP2 gene frequency distribution and sequencing of the allelic ladder and variants in the Japanese and Chinese populations. Liu C, et al. **Int J Legal Med** 1997; 110(4):208–12

Frequencies of the five PCR–based genetic markers LDLR, GYPA, HBGG, D7S8 and GC in the population of Asturias (North Spain). Martínez–Jarreta B, et al. **Int J Legal Med** 1997;110(1):41–3

Allele frequencies of nine STR systems in the Flemish population and application in parentage testing. Mertens G, et al. **Int J Legal Med** 1997;110(4):177–80

Genetic markers in primary open–angle glaucoma. Abecia E, et al. **Int Ophthalmol** 1996–97;20(1–3):79–82

Angiotensin converting enzyme gene polymorphism and carotid atherosclerosis in a low–risk population. Dessi–Fulgheri P, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1593–6

Distribution of HLA–A and B antigens in northeastern–Thais. Romphruk A, et al. **J Med Assoc Thai** 1996 Nov;79(11):732–6

Multicenter genetic study of retinitis pigmentosa in Japan: II. Prevalence of autosomal recessive retinitis pigmentosa. Hayakawa M, et al. **Jpn J Ophthalmol** 1997 Jan–Feb; 41(1):7–11

Frequency of the variant allele CYP2D6(C) among North American Caucasian lung cancer patients and controls. Shaw GL, et al. **Lung Cancer** 1997 May;17(1):61–8

Selective usage of VH genes in adult human B lymphocyte repertoires. Davidkova G, et al. **Scand J Immunol** 1997 Jan;45(1):62–73

Dopamine D3 receptor Gly9/Ser9 polymorphism and schizophrenia: no increased frequency of homozygosity in German familial cases. Rietschel M, et al. **Schizophr Res** 1996 May;20(1–2):181–6

Estimation in an island model using simulation. Nath HB, et al. **Theor Popul Biol** 1996 Dec;50(3):227–53

HLA–C genotyping in the Japanese population by the PCR–SSP method. Ando H, et al. **Tissue Antigens** 1996 Jul;48(1):55–8

Allelic frequencies of the HLA–B17 antigen group: comparative analysis by serology, IEF and PCR–SSOP typing. Levine JE, et al. **Tissue Antigens** 1995 Nov; 46(5):368–73

IMMUNOLOGY

T cell receptor (TCR) BV gene repertoires and clonal expansions of CD4 cells in patients with HIV infections. Roglic M, et al. **Clin Exp Immunol** 1997 Jan;107(1):21–30

HLA class I phenotype and gene frequencies in parts of southern Nigeria. Uko GP, et al. **Dis Markers** 1997 Apr; 13(2):123–9

Description of a new HLA–E (E*01031) allele and its frequency in the Spanish population. Gomez–Casado E, et al. **Hum Immunol** 1997 Apr 15;54(1):69–73

HLA gene haplotype frequencies in bone marrow donors worldwide registries. Schipper RF, et al. **Hum Immunol** 1997 Jan;52(1):54–71

Differences in frequency distribution of HLA–A2 subtypes between North American and Italian white melanoma patients: relevance for epitope specific vaccination protocols. Player MA, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):357–63

Increased frequency of HLA–DR4 allele in women with unexplained recurrent spontaneous abortions, detected by the method of PCR–SSP. Sasaki T, et al. **J Reprod Immunol** 1997 Feb;32(3):273–9

Frequency of platelet–specific alloantigens in a Danish population. Steffensen R, et al. **Tissue Antigens** 1996 Aug; 48(2):93–6

GENE FUSION see **CLONING, MOLECULAR**

GENE–GUN TECHNIQUE see **BIOLISTICS**

GENE LIBRARY

see related
DNA, RECOMBINANT

Detection of potential cytokine gene(s) in an Alu–PCR library from the human chromosome 4. Balogh I, et al. **Acta Microbiol Immunol Hung** 1996;43(1):55–65

Unnatural nucleotide sequences in biopharmaceutics. Loeb LA. **Adv Pharmacol** 1996;35:321–47 (68 ref.)

Contamination of sequence databases with adaptor sequences [letter] Yoshikawa T, et al. **Am J Hum Genet** 1997 Feb; 60(2):463–6

Influence of the light chain repertoire on immunoglobulin genes encoding thyroid autoantibody Fab from combinatorial libraries. Jaume JC, et al. **Autoimmunity** 1996;24(1):11–23

Construction of cDNA libraries from small amounts of total RNA using the suppression PCR effect. Lukyanov K, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):285–8

The case of chicken attachment region binding protein reinforces the importance of pre–screening of several libraries for cDNA cloning [letter] Weitzel J, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):261–2

Partial CviJI digestion as an alternative approach to generate cosmid sublibraries for large–scale sequencing projects. Gingrich JC, et al. **Biotechniques** 1996 Jul;21(1):99–104

PCR strategy to obtain the 5' and 3' flanking sequences of partial clones from lambda ZAP cDNA libraries. Li Q, et al. **Biotechniques** 1997 Jun;22(6):1038–40, 1042, 1044

Improved method for the construction of cosmid sublibraries from yeast artificial chromosomes. Müller HW, et al. **Biotechniques** 1997 Feb;22(2):264–6, 268

Limited growth PCR screening of a plasmid library. Ross LS, et al. **Biotechniques** 1996 Sep;21(3):382–4, 386

Generation of large libraries of random mutants in Bacillus subtilis by PCR–based plasmid multimerization. Shafikhani S, et al. **Biotechniques** 1997 Aug;23(2):304–10

Streamlined procedures for screening a P1 library. Shovlin CL. **Biotechniques** 1996 Sep;21(3):388–90

Caution is advised when cDNA expression libraries are screened by southwestern methodologies. Stuempfle KJ, et al. **Biotechniques** 1997 Feb;22(2):260–4

Construction of a representative cDNA library from prostatic intraepithelial neoplasia. Krizman DB, et al. **Cancer Res** 1996 Dec 1;56(23):5380–3

Antibodies against HIV–1 from phage display libraries: mapping of an immune response and progress towards antiviral immunotherapy. Parren PW, et al. **Chem Immunol** 1997;65:18–56 (163 ref.)

Construction of chromosome–specific DNA libraries covering the whole genome of field bean (Vicia faba L.). Macas J, et al. **Chromosome Res** 1996 Nov;4(7):531–9

Construction of cDNA bank from biopsy specimens for multiple gene analysis of cancer. Ishikawa T, et al. **Clin Chem** 1997 May;43(5):764–70

ConsInspector 3.0: new library and enhanced functionality. Frech K, et al. **Comput Appl Biosci** 1997 Feb;13(1):109–10

Development and use of a microdissected swine chromosome 6 DNA library. Ambady S, et al. **Cytogenet Cell Genet** 1997;76(1–2):27–33

Characterization of a flow–sorted human chromosome 10 cosmid library by FISH. Ma NS, et al. **Cytogenet Cell Genet** 1996;74(4):266–71

Development of DNA libraries specific for Chinese hamster chromosomes 3, 4, 9, 10, X, and Y by DOP–PCR. Xiao Y, et al. **Cytogenet Cell Genet** 1996;75(1):57–62

Construction of libraries for methylation sites by in–gel competitive reassociation (IGCR). Mizuguchi R, et al. **DNA Res** 1995 Oct 31;2(5):219–23

Construction and characterization of human brain cDNA libraries suitable for analysis of cDNA clones encoding relatively large proteins. Ohara O, et al. **DNA Res** 1997 Feb 28;4(1):53–9

A large–insert (130 kbp) bacterial artificial chromosome library of the rice blast fungus Magnaporthe grisea: genome analysis, contig assembly, and gene cloning. Zhu H, et al. **Fungal Genet Biol** 1997 Jun;21(3):337–47

Human BAC library: construction and rapid screening. Asakawa S, et al. **Gene** 1997 May 20;191(1):69–79

A fusion protein library: an improved method for rapid screening and characterization of DNA binding or interacting proteins. Ikeda M, et al. **Gene** 1996 Nov 28; 181(1–2):167–71

LambdaZLG6: a phage lambda vector for high–efficiency cloning and surface expression of cDNA libraries on filamentous phage. Jespers LS, et al. **Gene** 1996 Sep 16; 173(2):179–81

Construction and characterization of a rad51rad52 double mutant as a host for YAC libraries. Kohno K, et al. **Gene** 1997 Apr 1;188(2):175–81

Minilibraries constructed from cDNA generated by arbitrarily primed RT–PCR: an alternative to normalized libraries for the generation of ESTs from nanogram quantities of mRNA. Neto ED, et al. **Gene** 1997 Feb 20; 186(1):135–42

Construction of vectors and a genomic library for use with his3–deficient strains of Schizosaccharomyces pombe. Ohi R, et al. **Gene** 1996 Oct 3;174(2):315–8

Construction of a pilot human YAC library in a recombination–defective yeast strain. Palmieri G, et al. **Gene** 1997 Apr 1;188(2):169–74

Genomic libraries and a host strain designed for highly efficient two–hybrid selection in yeast. James P, et al. **Genetics** 1996 Dec;144(4):1425–36

Normalization and subtraction: two approaches to facilitate gene discovery. Bonaldo MF, et al. **Genome Res** 1996 Sep; 6(9):791–806

Human chromosome–specific cDNA libraries: new tools for gene identification and genome annotation. Del Mastro RG, et al. **Genome Res** 1995 Sep;5(2):185–94

Generation and analysis of 280,000 human expressed sequence tags. Hillier LD, et al. **Genome Res** 1996 Sep; 6(9):807–28

Chromosomal localization and expressed sequence tag generation of clones from a normalized human adult thymus cDNA library. Lamerdin JE, et al. **Genome Res** 1995 Nov;5(4):359–67

Perspectives: sequence data base searching in the era of large–scale genomic sequencing. Smith RF. **Genome Res** 1996 Aug;6(8):653–60 (44 ref.)

2006 expressed–sequence tags derived from human chromosome 7–enriched cDNA libraries. Touchman JW, et al. **Genome Res** 1997 Mar;7(3):281–92

Characterization of a human fovea cDNA library and regional differential gene expression in the human retina. Bernstein SL, et al. **Genomics** 1996 Mar 15;32(3):301–8

High–efficiency full–length cDNA cloning by biotinylated CAP trapper. Carninci P, et al. **Genomics** 1996 Nov 1; 37(3):327–36

Construction and screening of a cosmid library generated from a somatic cell hybrid bearing human chromosome 15. McDaniel LD, et al. **Genomics** 1997 Feb 15;40(1):63–72

An integrated map with cosmid/PAC contigs of a 4–Mb Down syndrome critical region. Osoegawa K, et al. **Genomics** 1996 Mar 15;32(3):375–87

Construction and characterization of a large–fragment chicken bacterial artificial chromosome library. Zimmer R, et al. **Genomics** 1997 Jun 1;42(2):217–26

Chemically derived peptide libraries: a new resin and methodology for lead identification. Buettner JA, et al. **Int J Pept Protein Res** 1996 Jan–Feb;47(1–2):70–83

cDNA library [letter; comment] Swaroop A. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1053. Comment on: Invest Ophthalmol Vis Sci 1996 Nov;37(12):2363–4.

Antibody humanization using monovalent phage display. Baca M, et al. **J Biol Chem** 1997 Apr 18;272(16):10678–84

Vimentin in a cold–water fish, the rainbow trout: highly conserved primary structure but unique assembly properties. Herrmann H, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):569–78

Differential screening of a human chromosome 3 library identifies hepatocyte growth factor–like/macrophage–stimulating protein and its receptor in injured lung. Possible implications for neuroendocrine cell survival. Willett CG, et al. **J Clin Invest** 1997 Jun 15;99(12):2979–91

Development of a chicken Z–chromosome–specific DNA library. Ambady S, et al. **J Hered** 1997 May–Jun; 88(3):247–9

Mapping of epitopes recognized by PM/Scl autoantibodies with gene–fragment phage display libraries. Blüthner M, et al. **J Immunol Methods** 1996 Nov 13;198(2):187–98

Baculovirus cDNA libraries for expression cloning of genes encoding cell–surface antigens. Granziero L, et al. **J Immunol Methods** 1997 Apr 25;203(2):131–9

Designing combinatorial library mixtures using a genetic algorithm. Brown RD, et al. **J Med Chem** 1997 Jul 18; 40(15):2304–13

Identification of genes encoding zinc finger motifs in the cardiovascular system. Wang R, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):281–7

Maintaining the integrity of human immunodeficiency virus sequence databases. Learn GH Jr, et al. **J Virol** 1996 Aug; 70(8):5720–30

Scientists revel in new research tool: an online index of cancer genes [news] Stephenson J. **JAMA** 1997 Oct 15; 278(15):1221, 1223–4

Construction and characterization of a large insert porcine YAC library. Alexander LJ, et al. **Mamm Genome** 1997 Jan;8(1):50–1

Construction of a large–insert yeast artificial chromosome library of the rat genome [published erratum appears in Mamm Genome 1997 Jun;8(6):460] Haldi ML, et al. **Mamm Genome** 1997 Apr;8(4):284

Mapping of 22 expressed sequence tags isolated from a porcine small intestine cDNA library. Jorgensen CB, et al. **Mamm Genome** 1997 Jun;8(6):423–7

A yeast artificial chromosome (YAC) library containing 10 haploid chicken genome equivalents. Toye AA, et al. **Mamm Genome** 1997 Apr;8(4):274–6

Subtractive hybridization for the isolation of differentially expressed genes using magnetic beads. Aasheim HC, et al. **Methods Mol Biol** 1997;69:115–28

Screening cDNA libraries by hybridization with double–stranded DNA probes and oligonucleotides. Austin CA. **Methods Mol Biol** 1997;69:147–54

Random fragment libraries using yeast expression plasmid. Bénichou S, et al. **Methods Mol Biol** 1996;66:241–55

Genomic yeast DNA clone banks. Construction and gene isolation. Bignell GR, et al. **Methods Mol Biol** 1996; 53:155–87 (21 ref.)

Computer analysis of cloned sequences. Caron PR. **Methods Mol Biol** 1997;69:247–60

Normalization of cDNA sequence representation by molecular selection. Coche TG. **Methods Mol Biol** 1997; 67:359–69

Cloning sequence–specific DNA–binding factors from cDNA expression libraries using oligonucleotide binding site probes. Cowell IG. **Methods Mol Biol** 1997;69:161–70

Yeast two–hybrid library screening. Cowell IG. **Methods Mol Biol** 1997;69:185–202

Isolation of messenger RNA from plant tissues. Dunn A. **Methods Mol Biol** 1997;69:33–8

Isolation of genetic suppressor elements (GSEs) from random fragment cDNA libraries in retroviral vectors. Gudkov AV, et al. **Methods Mol Biol** 1997;69:221–40

The tetramethylammonium chloride (TMAC) method for screening cDNA libraries with highly degenerate oligonucleotide probes obtained by reverse translation of amino acid sequences. Honoré B, et al. **Methods Mol Biol** 1997;69:139–46

Screening gene family–enriched cDNA sublibraries with an unamplified cDNA probe. Focusing on moderately to abundantly expressed clones. Hu M, et al. **Methods Mol Biol** 1997;67:481–6

Rapid amplification of gene ends (RAGE) from gene libraries by anchored PCR. Huang SH, et al. **Methods Mol Biol** 1997;67:295–300

Immunological screening of lambda–phage cDNA expression libraries. Hurst HC. **Methods Mol Biol** 1997;69:155–9

Rapid and nonradioactive screening of recombinant libraries by PCR. King MW. **Methods Mol Biol** 1997;67:331–8

Generation of a PCR–renewable source of subtractive cDNA. Kuehl WM, et al. **Methods Mol Biol** 1997; 67:389–403

CDNA library construction from small amounts of RNA using paramagnetic beads and PCR. Lambert KN, et al. **Methods Mol Biol** 1997;69:1–12

Generation and PCR screening of bacteriophage gamma sublibraries enriched for rare clones (the "sublibrary method"). Lardelli M. **Methods Mol Biol** 1997;67:345–55

Epitope mapping using random fragment expression libraries in lambda phages. Porzig H, et al. **Methods Mol Biol** 1996; 66:257–68

Cloning gene family members using the polymerase chain reaction with degenerate oligonucleotide primers. Preston GM. **Methods Mol Biol** 1997;69:97–113

cDNA libraries from a low amount of cells. Ravassard P, et al. **Methods Mol Biol** 1997;67:317–29

Searching the dbEST database. Rodriguez–Tomé P. **Methods Mol Biol** 1997;69:269–83

Identification and cloning of differentially expressed genes by DDRT–PCR. Rohde M, et al. **Methods Mol Biol** 1997; 67:419–30

Increasing the average abundance of low–abundance cDNAs by ordered subdivision of cDNA populations. Sibson DR, et al. **Methods Mol Biol** 1997;69:13–32

CDNA library construction for the Lambda ZAP–based vectors. Snead MA, et al. **Methods Mol Biol** 1997;69:39–51

Clone excision methods for the Lambda ZAP–based vectors. Snead MA, et al. **Methods Mol Biol** 1997;69:53–60

GENE LIBRARY

Reference cDNA library facilities available from European sources. Starkey MP, et al. **Methods Mol Biol** 1997; 69:285–316

Protein interaction cloning by far-Western screening of lambda-phage cDNA expression libraries. Takayama S, et al. **Methods Mol Biol** 1997;69:171–84

Use of PCR for cDNA library screening. Takumi T. **Methods Mol Biol** 1997;67:339–44

The use of PCR for differential screening of cDNA libraries. Thomas MG, et al. **Methods Mol Biol** 1997;67:405–18

Using rapid amplification of cDNA ends (RACE) to obtain full-length cDNAs. Zhang Y, et al. **Methods Mol Biol** 1997; 69:61–87

Toxoplasma gondii expressed sequence tags: insight into tachyzoite gene expression. Wan KL, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):179–86

Phage-display libraries of murine and human antibody Fab fragments. Engberg J, et al. **Mol Biotechnol** 1996 Dec; 6(3):287–310

Submission of nucleotide sequence data to EMBL/GenBank/DDBJ. Tuli MA, et al. **Mol Biotechnol** 1996 Aug;6(1):47–51 (3 ref.)

Construction of a human heart cDNA library and identification of cardiovascular based genes (CVBest). Liew CC, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):81–7

Directed evolution studies with combinatorial libraries of T4 lysozyme mutants. Patten PA, et al. **Mol Divers** 1996 Feb; 1(2):97–108

Construction of an 800-kb contig in the near-centromeric region of the rice blast resistance gene Pi-ta2 using a highly representative rice BAC library. Nakamura S, et al. **Mol Gen Genet** 1997 May;254(6):611–20

A genetic strategy for differential screening of meiotic germ-cell cDNA libraries. Caldwell KA, et al. **Mol Reprod Dev** 1996 Apr;43(4):403–13

Display of heterologous proteins on the surface of microorganisms: from the screening of combinatorial libraries to live recombinant vaccines. Georgiou G, et al. **Nat Biotechnol** 1997 Jan;15(1):29–34 (90 ref.)

Preparation of a differentially expressed, full-length cDNA expression library by RecA-mediated triple-strand formation with subtractively enriched cDNA fragments. Hakvoort TB, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3478–80

Construction of a deletion library using a mixture of 5'-truncated primers for inverse PCR (IPCR). Pues H, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1303–4

DNA data could spawn 'genetic underclass,' says VA physician. **Oncology (Huntingt)** 1997 Mar;11(3):366

Polymerase chain reaction-based construction of cDNA libraries from minute amounts of third-stage and fourth- and fifth-stage larvae of Dictyocaulus viviparus. von Samson-Himmelstjerna G, et al. **Parasitol Res** 1997; 83(1):20–3

A simple PCR method for screening cDNA libraries. Alfandari D, et al. **PCR Methods Appl** 1994 Aug;4(1):46–9

PLANET: a phage library analysis expert tool. Leplae R, et al. **Physiol Chem Phys Med NMR** 1995;27(4):331–8

Generation of cDNA expression libraries enriched for in-frame sequences. Davis CA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2128–32

Parallel human genome analysis: microarray-based expression monitoring of 1000 genes. Schena M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10614–9

Creation of libraries with long ORFs by polymerization of a microgene. Shiba K, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3805–10

Gene identification and DNA sequence analysis in the GC-poor 20 megabase region of human chromosome 21. Yu J, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):6862–7

Establishment of human DNA and plasma or serum banks for research purposes--a proposal [letter] de St Jean van der Reit F. **S Afr Med J** 1997 May;87(5):622–3

A prospective cardiovascular population study used in genetic epidemiology. The Copenhagen City Heart Study. Nordestgaard BG, et al. **Scand J Clin Lab Invest Suppl** 1996;226:65–71

A catalog of cancer genes at the click of a mouse [news] Pennisi E. **Science** 1997 May 16;276(5315):1023–4

Construction and characterization of three region-specific microdissection libraries for human chromosome 18. Kao FT, et al. **Somat Cell Mol Genet** 1996 May;22(3):191–9

Shearing DNA for genomic library construction. Hengen PN. **Trends Biochem Sci** 1997 Jul;22(7):273–4

PCR-generated cDNA libraries from reduced numbers of mouse oocytes. Revel F, et al. **Zygote** 1995 Aug;3(3):241–50

[Construction of gene library of attenuated liver hepatitis A vaccine (H2 strain)] Chen Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):342–4 (Eng. Abstr.) **(Chi)**

[The establishment of a three dimensional PCR screening system and quality evaluation of human YAC library] Yu Cailin, et al. **I Chuan Hsueh Pao** 1996;23(4):249–54 (Eng. Abstr.) **(Chi)**

[DNA bank] **Ann Biol Clin (Paris)** 1997 Jan–Feb;55(1):53–6 **(Fre)**

[A method for obtaining the normalized cDNA libraries based on the effect of suppression of polymerase chain reaction] Luk'anov KA, et al. **Bioorg Khim** 1996 Sep; 22(9):686–90 (Eng. Abstr.) **(Rus)**

GENE MAPPING see **CHROMOSOME MAPPING**

GENE POOL

see related

FOUNDER EFFECT

mtDNA and Y chromosome-specific polymorphisms in modern Ojibwa: implications about the origin of their gene pool [letter] Scozzari R, et al. **Am J Hum Genet** 1997 Jan; 60(1):241–4

Study of the matrimonial structure of the population of central Sardinia (Italy). Vona G, et al. **Anthropol Anz** 1996 Dec;54(4):317–29

Messages from an isolate: lessons from the Finnish gene pool. Peltonen L, et al. **Biol Chem Hoppe Seyler** 1995 Dec; 376(12):697–704 (51 ref.)

Gene co-ops and the biotrade: translating genetic resource rights into sustainable development. Reid WV. **J Ethnopharmacol** 1996 Apr;51(1–3):75–92 (21 ref.)

The genetical archaeology of the human genome. von Haeseler A, et al. **Nat Genet** 1996 Oct;14(2):135–40 (58 ref.)

Estimation in an island model using simulation. Nath HB, et al. **Theor Popul Biol** 1996 Dec;50(3):227–53

[The gene pool of native inhabitants of the Samburg tundra] Osipova LP, et al. **Genetika** 1996 Jun;32(6):830–6 (Eng. Abstr.) **(Rus)**

[Ethnogenetics of the Komi-Zyrians according to data on the distribution of gene frequencies of erythrocyte and serum systems in the blood] Shubin PN, et al. **Genetika** 1997 Feb;33(2):235–42 (Eng. Abstr.) **(Rus)**

[A genetic pool study of the population of the Republic of Tyva using genetic markers for the search for associations with tuberculosis] Pospelov LE, et al. **Probl Tuberk** 1996; (4):38–41 (Eng. Abstr.) **(Rus)**

GENE PROBES, DNA see **DNA PROBES**

GENE PROBES, RNA see **RNA PROBES**

GENE PRODUCTS see **PROTEINS**

GENE PRODUCTS, BACTERIAL see **BACTERIAL PROTEINS**

GENE PRODUCTS, ENV

ADMINISTRATION & DOSAGE

Immunopathogenesis of HIV infection: role of alcohol and HIV peptides. Nair MP, et al. **Adv Exp Med Biol** 1996; 402:165–70

ANTAGONISTS & INHIBITORS

Inhibition of HIV-1, HIV-2 and SIV envelope glycoprotein-mediated cell fusion by calmodulin. Malvoisin E, et al. **Virus Res** 1997 Aug;50(2):119–27

BIOSYNTHESIS

Alveolar macrophages produce the Env protein of a human endogenous retrovirus, HERV-E 4-1, in a subgroup of interstitial lung diseases. Tamura N, et al. **Am J Respir Cell Mol Biol** 1997 Apr;16(4):429–37

Inhibition of melanoma-associated antigen expression and ecotropic retrovirus production in B16BL6 melanoma cells transfected with major histocompatibility complex class I genes. Li M, et al. **Cancer Res** 1996 Oct 1;56(19):4464–74

Production of env-deficient rous sarcoma virus (RSV) early after infection. Hara H, et al. **Folia Biol (Praha)** 1997; 43(2):63–70

Specific N-linked and O-linked glycosylation modifications in the envelope V1 domain of simian immunodeficiency virus variants that evolve in the host alter recognition by neutralizing antibodies. Chackerian B, et al. **J Virol** 1997 Oct;71(10):7719–27

Expression of a putative immunosuppressive protein in human tumors and tissues. Turbeville MA, et al. **Pathobiology** 1996;64(5):233–8

Comparison of in vitro and in vivo infectivity of different clade B HIV-1 envelope chimeric simian/human immunodeficiency viruses in Macaca mulatta. Bogers WM, et al. **Virology** 1997 Sep 15;236(1):110–7

Increased incorporation of chimeric human immunodeficiency virus type 1 gp120 proteins into Pr55gag virus-like particles by an Epstein-Barr virus gp220/350-derived transmembrane domain. Deml L, et al. **Virology** 1997 Aug 18;235(1):10–25

CHEMISTRY

Kernel density analysis of variable and conserved regions of the envelope proteins of human immunodeficiency virus type 1 and associated epitopes. Lauder IJ, et al. **AIDS Res Hum Retroviruses** 1996 Jan 20;12(2):91–97

Sequence analysis of pre-S/S gene of hepatitis B virus strains of genotypes A, D, and F isolated in Brazil. Moraes MT, et al. **Arch Virol** 1996;141(9):1767–73

Solution conformation of an immunogenic peptide derived from the principal neutralizing determinant of the HIV-2 envelope glycoprotein gp125. Campbell AP, et al. **Fold Des** 1996;1(2):157–65

Probing the conformation of the human T-lymphotropic virus I envelope protein complex with monoclonal antibodies. Carrington CV, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2025–9

Efficient pseudotyping of murine leukemia virus particles with chimeric human foamy virus envelope proteins. Lindemann D, et al. **J Virol** 1997 Jun;71(6):4815–20

Localization of the labile disulfide bond between SU and TM of the murine leukemia virus envelope protein complex to a highly conserved CWLC motif in SU that resembles the active-site sequence of thiol-disulfide exchange enzymes. Pinter A, et al. **J Virol** 1997 Oct;71(10):8073–7

DIAGNOSTIC USE

Advantage of dimeric peptide antigens in serodiagnosis of HIV-1 infection. Gokulan K, et al. **Microbiol Immunol** 1997;41(3):215–20

GENETICS

HIV type 1 env gene diversity detected in Taiwan. Chang KS, et al. **AIDS Res Hum Retroviruses** 1997 Jan 20; 13(2):201–4

Envelope sequence variability and serologic characterization of HIV type 1 group O isolates from equatorial guinea. Hunt JC, et al. **AIDS Res Hum Retroviruses** 1997 Aug 10;13(12):995–1005

Assembly and immunogenicity of chimeric Gag-Env proteins derived from the human immunodeficiency virus type 1. Truong C, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):291–301

Detection of rare proviral DNA from non-syncytium-inducing HIV-1 clinical isolates using primers from the envelope gene for polymerase chain reaction amplification. Yelle J, et al. **Anal Biochem** 1996 Jan 15;233(2):243–6

Quasispecies and naturally occurring superinfection in feline immunodeficiency virus infection. Kyaw-Tanner MT, et al. **Arch Virol** 1996;141(9):1703–13

From the natural evolution to the genetic manipulation of the host-range of retroviruses. Dornburg R. **Biol Chem** 1997 Jun;378(6):457–68 (101 ref.)

Mutational analysis of the oligomer assembly domain in the transmembrane subunit of the Rous sarcoma virus glycoprotein. Einfeld DA, et al. **J Virol** 1997 Mar; 71(3):2383–9

Study of the dynamics of neutralization escape mutants in a chimpanzee naturally infected with the simian immunodeficiency virus SIVcpz-ant. Nyambi PN, et al. **J Virol** 1997 Mar;71(3):2320–30

Expression of human endogenous retrovirus type K envelope glycoprotein in insect and mammalian cells. Tönjes RR, et al. **J Virol** 1997 Apr;71(4):2747–56

A non-radioactive method for identifying enzyme-amplified products of the reticuloendotheliosis proviral env and LTR genes using psoralen-biotin labelled probes. Davidson I, et al. **J Virol Methods** 1996 May;59(1–2):113–9

Characterization of an envelope mutant of HIV-1 that interferes with viral infectivity. Chen SS, et al. **Virology** 1996 Dec 15;226(2):260–8

HIV-1 Env glycoproteins from two series of primary isolates: replication phenotype and immunogenicity. Mustafa F, et al. **Virology** 1997 Mar 3;229(1):269–78

The Env-like open reading frame of the baculovirus-integrated retrotransposon TED encodes a retrovirus-like envelope protein. Ozers MS, et al. **Virology** 1996 Dec 15;226(2):252–9

Use of persistent infections with vaccinia virus recombinants to introduce alterations in foreign proteins: an application to HIV-1 env protein. Esteban M, et al. **Virus Res** 1996 Dec;46(1–2):45–56

[Comparative analysis of the sequenced fragment of the Macaca arctoides STLV-1 env gene encoding the immunodominant region gp46 and the similar fragments in HTLV-1 (ATK) and STLV-1 from various primate species] Chikobava MG, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):92–6 **(Rus)**

IMMUNOLOGY

Complexed HIV envelope as a target for an AIDS vaccine. Gershoni JM, et al. **Adv Exp Med Biol** 1996;397:91–6

The production of beta-chemokines induced by HIV-2 envelope glycoprotein [letter] Neoh LP, et al. **AIDS** 1997 Jul;11(8):1062–3

Candidate HIV type 1 multideterminant cluster peptide-P18MN vaccine constructs elicit type 1 helper T cells, cytotoxic T cells, and neutralizing antibody, all using the same adjuvant immunization. Ahlers JD, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):259–72

Characterization of the expression and immunogenicity of poliovirus replicons that encode simian immunodeficiency virus SIVmac239 Gag or envelope SU proteins. Anderson MJ, et al. **AIDS Res Hum Retroviruses** 1997 Jan 1; 13(1):53–62

Enhancement of humoral immunity to SIVenv following simultaneous inoculation of mice by three recombinant adenoviruses encoding SIVenv/poliovirus chimeras, Tat and Rev. Chenciner N, et al. **AIDS Res Hum Retroviruses** 1997 Jun 10;13(9):801–6

Protection of SIVmac-infected macaque monkeys against superinfection by a simian immunodeficiency virus expressing envelope glycoproteins of HIV type 1. Dunn CS, et al. **AIDS Res Hum Retroviruses** 1997 Jul 20; 13(11):913–22

Kernel density analysis of variable and conserved regions of the envelope proteins of human immunodeficiency virus type 1 and associated epitopes. Lauder IJ, et al. **AIDS Res Hum Retroviruses** 1996 Jan 20;12(2):91–97

Immunogenicity of variable regions of the surface envelope glycoprotein of HTLV type I and identification of new major epitopes in the 239–261 region. Londos-Gagliardi D, et al. **AIDS Res Hum Retroviruses** 1996 Jul 1; 12(10):941–50

Vaccination of cats with recombinant envelope glycoprotein of feline immunodeficiency virus: decreased viral load after challenge infection. Lutz H, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):431–3 (17 ref.)

Accelerated viremia in cats vaccinated with recombinant vaccinia virus expressing envelope glycoprotein of feline immunodeficiency virus. Osterhaus AD, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):437–41

Specificity of antibodies directed against Env protein of human endogenous retroviruses in patients with germ cell tumors. Sauter M, et al. **Cancer Res** 1996 Oct 1; 56(19):4362–5

Solution conformation of an immunogenic peptide derived from the principal neutralizing determinant of the HIV-2 envelope glycoprotein gp125. Campbell AP, et al. **Fold Des** 1996;1(2):157–65

Chronic ethanol effects on cellular immune responses to hepatitis B virus envelope protein: an immunologic mechanism for induction of persistent viral infection in alcoholics. Geissler M, et al. **Hepatology** 1997 Sep; 26(3):764–70

Relevance of the antibody response against human immunodeficiency virus type 1 envelope to vaccine design. Parren PW, et al. **Immunol Lett** 1997 Jun 1;57(1–3):105–12 (87 ref.)

Erratum to "Relevance of the antibody response against human immunodeficiency virus type 1 envelope to vaccine design" [corrected and republished article originally printed in Immunol Lett 1997 Jun 1;57(1–3):105–12] Parren PW, et al. **Immunol Lett** 1997 Jul;58(2):125–32 (87 ref.)

Molecular analysis of presentation by HLA-A2.1 of a promiscuously binding V3 loop peptide from the HIV-envelope protein to human cytotoxic T lymphocytes. Alexander-Miller MA, et al. **Int Immunol** 1996 May; 8(5):641–9

Systemic T cell-independent tumor immunity after transplantation of universal receptor-modified bone marrow into SCID mice. Hege KM, et al. **J Exp Med** 1996 Dec 1;184(6):2261–9

Early HIV-1 envelope-specific cytotoxic T lymphocyte responses in vertically infected infants. Pikora CA, et al. **J Exp Med** 1997 Apr 7;185(7):1153–61

Env-specific CTL predominate in cats protected from feline immunodeficiency virus infection by vaccination. Flynn JN, et al. **J Immunol** 1996 Oct 15;157(8):3658–65

Vaccine-specific antibody responses induced by HIV-1 envelope subunit vaccines. Pincus SH, et al. **J Immunol** 1997 Apr 1;158(7):3511–20

Neutralizing activity and antibody reactivity toward immunogenic regions of the human T cell leukemia virus type I surface glycoprotein in sera of infected patients with different clinical states. Astier-Gin T, et al. **J Infect Dis** 1997 Mar;175(3):716–9

Cervicovaginal synthesis of IgG antibodies to the immunodominant 175–199 domain of the surface glycoprotein gp46 of human T-cell leukemia virus type I. Bélec L, et al. **J Med Virol** 1996 Sep;50(1):42–9

Preferential recognition of synthetic peptides from HTLV-I gp21 envelope protein by HLA-DRB1 alleles associated with HAM/TSP (HTLV-I-associated myelopathy/tropical spastic paraparesis). Yamano Y, et al. **J Neuroimmunol** 1997 Jun;76(1–2):50–60

A source of glycosylated human T-cell lymphotropic virus type 1 envelope protein: expression of gp46 by the vaccinia virus/T7 polymerase system. Arp J, et al. **J Virol** 1996 Nov;70(11):7349–59

Specific N-linked and O-linked glycosylation modifications in the envelope V1 domain of simian immunodeficiency virus variants that evolve in the host alter recognition by neutralizing antibodies. Chackerian B, et al. **J Virol** 1997 Oct;71(10):7719–27

Neutralizing human monoclonal antibodies to conformational epitopes of human T-cell lymphotropic virus type 1 and 2 gp46. Hadlock KG, et al. **J Virol** 1997 Aug;71(8):5828–40

Utilization of C-C chemokine receptor 5 by the envelope glycoproteins of a pathogenic simian immunodeficiency virus, SIVmac239. Marcon L, et al. **J Virol** 1997 Mar; 71(3):2522–7

Progression to persistent lymphocytosis and tumor development in bovine leukemia virus (BLV)-infected cattle correlates with impaired proliferation of CD4+ T cells in response to gag- and env-encoded BLV proteins. Orlik O, et al. **J Virol** 1996 Nov;70(11):7584–93

In vitro antigen challenge of human antibody libraries for vaccine evaluation: the human immunodeficiency virus type 1 envelope. Parren PW, et al. **J Virol** 1996 Dec; 70(12):9046–50

Immunosuppression by metastatic lymphoma derived altered retroviral gp70 molecule. Hao W, et al. **Leukemia** 1997 Apr;11 Suppl 3:202–5

Antibodies directed against a variable and neutralizable region of the HTLV-I envelope surface glycoprotein. Londos-Gagliardi D, et al. **Leukemia** 1997 Apr;11 Suppl 3:38–41

Peptide-based bovine leukemia virus (BLV) vaccine that induces BLV-Env specific Th-1 type immunity. Ohishi K, et al. **Leukemia** 1997 Apr;11 Suppl 3:223–6

HIV-1 antibody—debris or virion? [letter] [see comments] [published erratum appears in Nat Med 1997 Jun;3(6):591] Parren WH, et al. **Nat Med** 1997 Apr;3(4):366–7. Comment in: Nat Med 1997 Jun;3(6):590–1.

Prevention of hepatitis C virus infection in chimpanzees by hyperimmune serum against the hypervariable region 1 of the envelope 2 protein. Farci P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15394–9

Potent, protective anti-HIV immune responses generated by bimodal HIV envelope DNA plus protein vaccination. Letvin NL, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9378–83

Handling of retroviral antigens by human antigen-presenting cells. Fenoglio D, et al. **Res Virol** 1996 Mar-Jun; 147(2–3):97–101

Eliciting HIV-1 envelope-specific antibodies with mixed vaccinia virus recombinants. Rencher SD, et al. **Vaccine** 1997 Feb;15(3):265–72

Anti-HIV env immunities elicited by nucleic acid vaccines. Shiver JW, et al. **Vaccine** 1997 Jun;15(8):884–7

Recombinant human immunodeficiency Pr55gag virus-like particles presenting chimeric envelope glycoproteins induce cytotoxic T-cells and neutralizing antibodies. Deml L, et al. **Virology** 1997 Aug 18;235(1):26–39

Screening of HIV-1 Env glycoproteins for the ability to raise neutralizing antibody using DNA immunization and recombinant vaccinia virus boosting. Richmond JF, et al. **Virology** 1997 Apr 14;230(2):265–74

Identification of HTLV-1-specific CTL directed against synthetic and naturally processed peptides in HLA-B*3501 transgenic mice. Schönbach C, et al. **Virology** 1996 Dec 1;226(1):102–12

Neutralization of SIVmac239/17E in lymphocyte cultures involves virus strain-specific linear and conformational epitopes encoded by different regions of the env gene including the "V3" domain. Wu Z, et al. **Virology** 1996 Aug 1;222(1):184–92

METABOLISM

Direct interaction between the envelope and matrix proteins of HIV-1. Cosson P. **EMBO J** 1996 Nov 1;15(21):5783–8

Effect of various glycosidase treatments on the resistance of the HIV-1 envelope to degradation. Papandreou MJ, et al. **FEBS Lett** 1997 Apr 7;406(1–2):191–5

Rapid degradation of CD4 in cells expressing human immunodeficiency virus type 1 Env and Vpu is blocked by proteasome inhibitors. Fujita K, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):619–25

Bimodal down-regulation of CD4 in cells expressing human immunodeficiency virus type 1 Vpu and Env. Fujita K, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2393–401

Human T cell leukaemia virus type I env gene-transfected HeLa cells display a decrease in cell fusion ability. Girerd Y, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1021–4

Cell type-specific fusion cofactors determine human immunodeficiency virus type 1 tropism for T-cell lines versus primary macrophages. Alkhatib G, et al. **J Virol** 1996 Aug;70(8):5487–94

The human immunodeficiency virus (HIV) type 2 envelope protein is a functional complement to HIV type 1 Vpu that enhances particle release of heterologous retroviruses. Bour S, et al. **J Virol** 1996 Dec;70(12):8285–300

Human immunodeficiency virus type 1 and 2 envelope glycoproteins oligomerize through conserved sequences. Center RJ, et al. **J Virol** 1997 Jul;71(7):5706–11

Human immunodeficiency virus type 1 Vif does not influence expression or virion incorporation of gag-, pol-, and env-encoded proteins. Fouchier RA, et al. **J Virol** 1996 Dec;70(12):8263–9

The role of eukaryotic subtilisin-like endoproteases for the activation of human immunodeficiency virus glycoproteins in natural host cells. Hallenberger S, et al. **J Virol** 1997 Feb;71(2):1036–45

Envelope glycoproteins from human immunodeficiency virus types 1 and 2 and simian immunodeficiency virus can use human CCR5 as a coreceptor for viral entry and make direct CD4-dependent interactions with this chemokine receptor. Hill CM, et al. **J Virol** 1997 Sep;71(9):6296–304

The cytoplasmic and transmembrane domains of the vaccinia virus B5R protein target a chimeric human immunodeficiency virus type 1 glycoprotein to the outer envelope of nascent vaccinia virions. Katz E, et al. **J Virol** 1997 Apr;71(4):3178–87

The critical N-linked glycan of murine leukemia virus envelope protein promotes both folding of the C-terminal domains of the precursor polyprotein and stability of the postcleavage envelope complex. Li Z, et al. **J Virol** 1997 Sep;71(9):7012–9

Two distinct oncornaviruses harbor an intracytoplasmic tyrosine-based basolateral targeting signal in their viral envelope glycoprotein. Lodge R, et al. **J Virol** 1997 Jul; 71(7):5696–702

Truncation of the human immunodeficiency virus type 1 envelope glycoprotein allows efficient pseudotyping of Moloney murine leukemia virus particles and gene transfer into CD4+ cells. Mammano F, et al. **J Virol** 1997 Apr; 71(4):3341–5

Characterization of human immunodeficiency virus type 1 matrix revertants: effects on virus assembly, Gag processing, and Env incorporation into virions. Ono A, et al. **J Virol** 1997 Jun;71(6):4409–18

Localization of the labile disulfide bond between SU and TM of the murine leukemia virus envelope protein complex to a highly conserved CWLC motif in SU that resembles the active-site sequence of thiol-disulfide exchange enzymes. Pinter A, et al. **J Virol** 1997 Oct;71(10):8073–7

Trypsin-sensitive and -resistant components in human T-cell membranes required for syncytium formation by human T-cell lymphotropic virus type 1-bearing cells. Sagara Y, et al. **J Virol** 1997 Jan;71(1):601–7

Recombinant HIV envelope expressed in an alpha-glucosidase I-deficient CHO cell line and its parental cell line in the presence of 1-deoxynojirimycin is functional. Fenouillet E, et al. **Virology** 1997 Apr 28; 231(1):89–95

PHARMACOLOGY

An oligopeptide of the feline leukemia virus envelope glycoprotein is associated with morphological changes and calcium dysregulation in neuronal growth cones. Fails AD, et al. **J Neurovirol** 1997 Jun;3(3):179–91

PHYSIOLOGY

Recombinant retroviruses pseudotyped with the vesicular stomatitis virus G glycoprotein mediate both stable gene transfer and pseudotransduction in human peripheral blood lymphocytes. Gallardo HF, et al. **Blood** 1997 Aug 1; 90(3):952–7

Synthesis and assembly of chimeric human immunodeficiency virus gag pseudovirions [published erratum appears in Intervirology 1996;39(4):258] Tobin GJ, et al. **Intervirology** 1996;39(1–2):40–8 (43 ref.)

Inhibition of HIV-1, HIV-2 and SIV envelope glycoprotein-mediated cell fusion by calmodulin. Malvoisin E, et al. **Virus Res** 1997 Aug;50(2):119–27

GENE PRODUCTS, FUNGAL see **FUNGAL PROTEINS**

GENE PRODUCTS, GAG

Demographic, ethnic, and geographic differences between human T cell lymphotropic virus (HTLV) type I-seropositive carriers and persons with HTLV-I Gag-indeterminate Western blots in Central Africa. Mauclère P, et al. **J Infect Dis** 1997 Aug;176(2):505–9

ADMINISTRATION & DOSAGE

Immunopathogenesis of HIV infection: role of alcohol and HIV peptides. Nair MP, et al. **Adv Exp Med Biol** 1996; 402:165–70

ANALYSIS

Evidence and prevention of HIV-1 nucleocapsid protein adsorption onto fluorescence quartz cells. Vuilleumier C, et al. **Anal Biochem** 1997 Jan 1;244(1):183–5

ANTAGONISTS & INHIBITORS

Inhibition of HIV-1 replication by cyclosporine A or related compounds correlates with the ability to disrupt the Gag-cyclophilin A interaction. Franke EK, et al. **Virology** 1996 Aug 1;222(1):279–82

BIOSYNTHESIS

The construction and evaluation of SIV/HIV chimeras that express the envelope of European HIV type 1 isolates. Ranjbar S, et al. **AIDS Res Hum Retroviruses** 1997 Jun 10;13(9):797–800

A role for Rev in the association of HIV-1 gag mRNA with cytoskeletal beta-actin and viral protein expression. Kimura T, et al. **Biochimie** 1996;78(11–12):1075–80 (48 ref.)

Carboxy-terminal cleavage of the human foamy virus Gag precursor molecule is an essential step in the viral life cycle. Enssle J, et al. **J Virol** 1997 Oct;71(10):7312–7

Expression and maturation of human foamy virus Gag precursor polypeptides. Giron ML, et al. **J Virol** 1997 Feb; 71(2):1635–9

Possible origin of murine AIDS-inducing sequence. Kubo Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:163–6

The role of topoisomerase I in HIV-1 replication. Takahashi H, et al. **Leukemia** 1997 Apr;11 Suppl 3:26–8

Temporal association of interferon-alpha and p27 core antigen levels in sera of simian immunodeficiency virus infected monkeys. Langford MP, et al. **Microb Pathog** 1996 Mar;20(3):171–8

Increased incorporation of chimeric human immunodeficiency virus type 1 gp120 proteins into Pr55gag virus-like particles by an Epstein-Barr virus gp220/350-derived transmembrane domain. Deml L, et al. **Virology** 1997 Aug 18;235(1):10–25

Protein composition and morphology of human foamy virus intracellular cores and extracellular particles. Morozov VA, et al. **Virology** 1997 Feb 17;228(2):307–17

BLOOD

Earlier diagnosis of HIV-1 infection by simultaneous detection of p24 antigen and antibody IgGs to p17 and

reverse transcriptase in serum with enzyme immunoassay. Hashida S, et al. **J Clin Lab Anal** 1996;10(4):213–9

CHEMISTRY

Identification of a novel human leukocyte antigen A26–restricted epitope in a conserved region of Gag [letter] Goulder P, et al. **AIDS** 1996 Oct;10(12):1441–3

Inhibition of multiple phases of human immunodeficiency virus type 1 replication by a dithiane compound that attacks the conserved zinc fingers of retroviral nucleocapsid proteins. Rice WG, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):419–26

The human immunodeficiency virus type 1 (HIV-1) nucleocapsid protein zinc ejection activity of disulfide benzamides and benzisothiazolones: correlation with anti-HIV and virucidal activities. Tummino PJ, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):394–400

The major homology region of the HIV-1 gag precursor influences membrane affinity. Ebbets-Reed D, et al. **Biochemistry** 1996 Nov 12;35(45):14268–75

Characterization of intermediates in the oxidation of zinc fingers in human immunodeficiency virus type 1 nucleocapsid protein P7. Hathout Y, et al. **Drug Metab Dispos** 1996 Dec;24(12):1395–400

Structural analysis of membrane-bound retrovirus capsid proteins. Barklis E, et al. **EMBO J** 1997 Mar 17; 16(6):1199–213

No tRNA3Lys unwinding in a complex with HIV NCp7. Gregoire CJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25143–8

Calculation of the dielectric properties of a protein and its solvent: theory and a case study. Löffler G, et al. **J Mol Biol** 1997 Jul 18;270(3):520–34

Structural analysis of human immunodeficiency virus type 1 Gag protein interactions, using cysteine-specific reagents. McDermott J, et al. **J Virol** 1996 Aug;70(8):5106–14

Journey to the core of HIV [news] Jones I, et al. **Nat Struct Biol** 1996 Oct;3(10):818–20

Comparison of the NMR and X-ray structures of the HIV-1 matrix protein: evidence for conformational changes during viral assembly. Massiah MA, et al. **Protein Sci** 1996 Dec; 5(12):2391–8

DRUG EFFECTS

A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'-dithiobisbenzamides. Domagala JM, et al. **Bioorg Med Chem** 1997 Mar; 5(3):569–79

Biophysical characterization of zinc ejection from HIV nucleocapsid protein by anti-HIV 2,2'-dithiobis[benzamides] and benzisothiazolones. Loo JA, et al. **J Med Chem** 1996 Oct 11;39(21):4313–20

Cyclosporine A–resistant human immunodeficiency virus type 1 mutants demonstrate that Gag encodes the functional target of cyclophilin A. Braaten D, et al. **J Virol** 1996 Aug;70(8):5170–6

Azodicarbonamide inhibits HIV-1 replication by targeting the nucleocapsid protein. Rice WG, et al. **Nat Med** 1997 Mar;3(3):341–5

GENETICS

Divergence of HIV-1 quasispecies in an epidemiologic cluster. Diaz RS, et al. **AIDS** 1997 Mar 15;11(4):415–22

HIV-1 primary infection in two pairs of patients: difference in variants transmitted and clinical follow-up [letter] Innocenti-Francillard P, et al. **AIDS** 1997 Mar 15; 11(4):539–42

Wild-type and mutant HIV type 1 nucleocapsid proteins increase the proportion of long cDNA transcripts by viral reverse transcriptase. Drummond JE, et al. **AIDS Res Hum Retroviruses** 1997 May 1;13(7):533–43

Assembly and immunogenicity of chimeric Gag-Env proteins derived from the human immunodeficiency virus type 1. Truong C, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):291–301

Mapping the multimerization domains of the Gag protein of yeast retrotransposon Ty1. Brachmann CB, et al. **J Virol** 1997 Jan;71(1):812–7

Genetic analysis of interactions between Gag proteins of Rous sarcoma virus. Li X, et al. **J Virol** 1997 Jul; 71(7):5624–30

A critical proteolytic cleavage site near the C terminus of the yeast retrotransposon Ty1 Gag protein. Merkulov GV, et al. **J Virol** 1996 Aug;70(8):5548–56

Charged amino acid residues of human immunodeficiency virus type 1 nucleocapsid p7 protein involved in RNA packaging and infectivity. Poon DT, et al. **J Virol** 1996 Oct;70(10):6607–16

Nuclear targeting of incoming human foamy virus Gag proteins involves a centriolar step. Saïb A, et al. **J Virol** 1997 Feb;71(2):1155–61

Autogenous regulation of RNA translation and packaging by Rous sarcoma virus Pr76gag. Sonstegard TS, et al. **J Virol** 1996 Oct;70(10):6542–52

Expression of a murine leukemia virus Gag-Escherichia coli RNase HI fusion polyprotein significantly inhibits virus spread. VanBrocklin M, et al. **J Virol** 1997 Apr; 71(4):3312–8

Fine mapping and characterization of the Rous sarcoma virus Pr76gag late assembly domain. Xiang Y, et al. **J Virol** 1996 Aug;70(8):5695–700

Transforming activity of retroviral genomes encoding Gag-Axl fusion proteins. Zhang QK, et al. **J Virol** 1996 Nov;70(11):8089–97

Positional cloning of the mouse retrovirus restriction gene Fv1 [see comments] Best S, et al. **Nature** 1996 Aug 29; 382(6594):826–9. Comment in: Nature 1996 Aug 29;382(6594):762–3.

Retrovirus restriction revealed [news; comment] Coffin JM. **Nature** 1996 Aug 29;382(6594):762–3. Comment on: Nature 1996 Aug 29;382(6594):826–9.

The molecular epidemiology of human immunodeficiency virus type 1 in six cities in Britain and Ireland. Brown AJ, et al. **Virology** 1997 Aug 18;235(1):166–77

Posttranscriptional regulation by Rev protein of human immunodeficiency virus type 1 results in nonrandom nuclear localization of gag mRNA. Romanov VI, et al. **Virology** 1997 Feb 17;228(2):360–70

Elucidation of an HIV-1 transmission from mother to child in west Africa by sequence analysis. Kasper P, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):307–17

IMMUNOLOGY

Neutralization of human immunodeficiency virus type 1 (HIV-1) with antibody from carriers' plasma against HIV-1 protein p17. Kageyama S, et al. **Acta Virol** 1996 Sep;40(4):195–200

Characterization of the expression and immunogenicity of poliovirus replicons that encode simian immunodeficiency virus SIVmac239 Gag or envelope SU proteins. Anderson MJ, et al. **AIDS Res Hum Retroviruses** 1997 Jan 1; 13(1):53–62

Gag-specific immune responses after immunization with p17/p24:Ty virus-like particles in HIV type 1–seropositive individuals. Klein MR, et al. **AIDS Res Hum Retroviruses** 1997 Mar 20;13(5):393–9

Antibodies to the HIV-1 p17 protein cross-react with human superoxide dismutase-2. Kato T, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):184–7

A polypeptide encoded within the murine AIDS defective virus stimulates primary proliferation of CD8+ T-cells. Yee ST, et al. **Immunol Lett** 1997 Feb;55(2):93–8

Stimulation of human cytotoxic T cells with HIV-1–derived peptides presented by recombinant HLA-A2 peptide complexes. Walter JB, et al. **Int Immunol** 1997 Mar; 9(3):451–9

Safety and immunogenicity of recombinant human immunodeficiency virus-like particles in rodents and rhesus macaques. Wagner R, et al. **Intervirology** 1996; 39(1-2):93–103 (76 ref.)

T-cell response to HIV in natural infection: optimized culture conditions for detecting responses to gag peptides. Adams SL, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Aug 1;15(4):257–63

Antagonist HIV-1 Gag peptides induce structural changes in HLA B8. Reid SW, et al. **J Exp Med** 1996 Dec 1; 184(6):2279–86

A recombinant human adenovirus expressing the simian immunodeficiency virus Gag antigen can induce long-lived immune responses in mice. Flanagan B, et al. **J Gen Virol** 1997 May;78 (Pt 5):991–7

CD8+ cytotoxic T lymphocytes of a cynomolgus macaque infected with simian immunodeficiency virus (SIV) mac32H-J5 recognize a nine amino acid epitope in SIV Gag p26. Geretti AM, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):821–4

Mucosal or targeted lymph node immunization of macaques with a particulate SIVp27 protein elicits virus-specific CTL in the genito-rectal mucosa and draining lymph nodes. Klavinskis LS, et al. **J Immunol** 1996 Sep 15; 157(6):2521–7

Oral immunization with simian immunodeficiency virus p55gag and cholera toxin elicits both mucosal IgA and systemic IgG immune responses in nonhuman primates. Kubota M, et al. **J Immunol** 1997 Jun 1;158(11):5321–9

Characterization of the antibody response specific for the human endogenous retrovirus HTDV/HERV-K. Boller K, et al. **J Virol** 1997 Jun;71(6):4581–8

Identification of a gag-encoded cytotoxic T-lymphocyte epitope from FBL-3 leukemia shared by Friend, Moloney, and Rauscher murine leukemia virus-induced tumors. Chen W, et al. **J Virol** 1996 Nov;70(11):7773–82

Progression to persistent lymphocytosis and tumor development in bovine leukemia virus (BLV)-infected cattle correlates with impaired proliferation of CD4+ T cells in response to gag- and env-encoded BLV proteins. Orlik O, et al. **J Virol** 1996 Nov;70(11):7584–93

Virus-specific cytotoxic T-lymphocyte activity elicited by coimmunization with human immunodeficiency virus type 1 genes regulated by the bacteriophage T7 promoter and T7 RNA polymerase protein. Selby MJ, et al. **J Virol** 1997 Oct;71(10):7827–31

Detection of Maedi-Visna virus antibodies using a single fusion transmembrane-core p25 recombinant protein ELISA and a modified receiver-operating characteristic analysis to determine cut-off values. Boshoff CH, et al. **J Virol Methods** 1997 Jan;63(1-2):47–56

Shortening of the window period in diagnosis of HIV-1 infection by simultaneous detection of p24 antigen and antibody IgG to p17 and reverse transcriptase in serum with ultrasensitive enzyme immunoassay. Hashida S, et al. **J Virol Methods** 1996 Oct;62(1):43–53

Immunologic havoc induced by the 60 kD Gag protein of the MAIDS defective virus. Morse HC 3rd, et al. **Leukemia** 1997 Apr;11 Suppl 3:167–9

MHC class I presentation of an exogenous polypeptide antigen encoded by the murine AIDS defective virus. Yee ST, et al. **Microbiol Immunol** 1997;41(7):563–70

Inhibition of early and late events of the HIV-1 replication cycle by cytoplasmic Fab intrabodies against the matrix protein, p17. Levin R, et al. **Mol Med** 1997 Feb;3(2):96–110

Induction of feline immunodeficiency virus specific antibodies in cats with an attenuated Salmonella strain expressing the Gag protein. Tijhaar EJ, et al. **Vaccine** 1997 Apr-May;15(6-7):587–96

Induction of SIV capsid-specific CTL and mucosal sIgA in mice immunized with a recombinant S. typhimurium aroA mutant. Valentine PJ, et al. **Vaccine** 1996 Feb; 14(2):138–46

Recognition of ovine lentivirus gag gene products by serum from infected sheep. Kwang J, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1-3):107–14

Recombinant human immunodeficiency Pr55gag virus-like particles presenting chimeric envelope glycoproteins induce cytotoxic T-cells and neutralizing antibodies. Deml L, et al. **Virology** 1997 Aug 18;235(1):26–39

Identification of HTLV-1-specific CTL directed against synthetic and naturally processed peptides in HLA-B*3501 transgenic mice. Schönbach C, et al. **Virology** 1996 Dec 1;226(1):102–12

METABOLISM

Mutational analysis of two zinc finger motifs in HIV type 1 nucleocapsid proteins: effects on proteolytic processing of Gag precursors and particle formation. Mizuno A, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):793–800

Blockage of N-myristoylation of HIV-1 gag induces the production of impotent progeny virus. Furuishi K, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):504–11

Expression and molecular characterization of an enzymatically active recombinant human spumaretrovirus protease. Pfrepper KI, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):548–53

Fluorescence, phosphorescence, and optically detected magnetic resonance studies of the nucleic acid association of the nucleocapsid protein of the murine leukemia virus. Wu JQ, et al. **Biochemistry** 1997 May 20;36(20):6115–23

Phosphorylation of residue 131 of HIV-1 matrix is not required for macrophage infection. Freed EO, et al. **Cell** 1997 Jan 24;88(2):171–3; discussion 173–4

HIV-1 infection of non-dividing cells: evidence that the amino-terminal basic region of the viral matrix protein is important for Gag processing but not for post-entry nuclear import. Fouchier RA, et al. **EMBO J** 1997 Aug 1;16(15):4531–9

Functional RT and IN incorporated into HIV-1 particles independently of the Gag/Pol precursor protein. Wu X, et al. **EMBO J** 1997 Aug 15;16(16):5113–22

HIV protease substrate conformation: modulation by cyclophilin A. McCornack MA, et al. **FEBS Lett** 1997 Sep 1;414(1):84–8

Extended binding sites of cyclophilin as revealed by the interaction with HIV-1 Gag polyprotein derived oligopeptides. Schutkowski M, et al. **FEBS Lett** 1996 Oct 7;394(3):289–94

Direct activation of protein phosphatase-2A0 by HIV-1 encoded protein complex NCp7:vpr. Tung HY, et al. **FEBS Lett** 1997 Jan 20;401(2-3):197–201

Preferential binding of poly(A)-binding protein 1 to an inhibitory RNA element in the human immunodeficiency virus type 1 gag mRNA. Afonina E, et al. **J Biol Chem** 1997 Jan 24;272(4):2307–11

No tRNA3Lys unwinding in a complex with HIV NCp7. Gregoire CJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25143–8

Kinetics analysis of consecutive HIV proteolytic cleavages of the Gag-Pol polyprotein. Rasnick D. **J Biol Chem** 1997 Mar 7;272(10):6348–53

Targeting of Moloney murine leukemia virus gag precursor to the site of virus budding. Suomalainen M, et al. **J Cell Biol** 1996 Dec;135(6 Pt 2):1841–52

Regulation of human endogenous retrovirus-K Gag expression in teratocarcinoma cell lines and human tumours. Götzinger N, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):2983–90

Zinc ejection as a new rationale for the use of cystamine and related disulfide-containing antiviral agents in the treatment of AIDS. McDonnell NB, et al. **J Med Chem** 1997 Jun 20;40(13):1969–76

Molecular recognition in the HIV-1 capsid/cyclophilin A complex. Yoo S, et al. **J Mol Biol** 1997 Jun 27;269(5):780–95

Mutations in the N-terminal domain of human immunodeficiency virus type 1 nucleocapsid protein affect virion core structure and proviral DNA synthesis. Berthoux L, et al. **J Virol** 1997 Sep;71(9):6973–81

The hydrophobic pocket of cyclophilin is the binding site for the human immunodeficiency virus type 1 Gag polyprotein. Braaten D, et al. **J Virol** 1997 Mar; 71(3):2107–13

Human immunodeficiency virus matrix tyrosine phosphorylation: characterization of the kinase and its substrate requirements. Camaur D, et al. **J Virol** 1997 Sep; 71(9):6834–41

The murine AIDS virus Gag precursor protein binds to the SH3 domain of c-Abl. Dupraz P, et al. **J Virol** 1997 Apr; 71(4):2615–20

Human immunodeficiency virus type 1 envelope protein endocytosis mediated by a highly conserved intrinsic internalization signal in the cytoplasmic domain of gp41 is suppressed in the presence of the Pr55gag precursor protein. Egan MA, et al. **J Virol** 1996 Oct;70(10):6547–56

Human immunodeficiency virus type 1 Vif does not influence expression or virion incorporation of gag–, pol–, and env–encoded proteins. Fouchier RA, et al. **J Virol** 1996 Dec;70(12):8263–9

Characterization of glycosylated Gag expressed by a neurovirulent murine leukemia virus: identification of differences in processing in vitro and in vivo. Fujisawa R, et al. **J Virol** 1997 Jul;71(7):5355–60

Incorporation of Pr160(gag-pol) into virus particles requires the presence of both the major homology region and adjacent C-terminal capsid sequences within the Gag-Pol polyprotein. Huang M, et al. **J Virol** 1997 Jun;71(6):4472–8

Effect of mutations in the nucleocapsid protein (NCp7) upon Pr160(gag–pol) and tRNA(Lys) incorporation into human immunodeficiency virus type 1. Huang Y, et al. **J Virol** 1997 Jun;71(6):4378–84

Genetic analysis of interactions between Gag proteins of Rous sarcoma virus. Li X, et al. **J Virol** 1997 Jul; 71(7):5624–30

Human immunodeficiency virus Type 1 nucleocapsid protein (NCp7) directs specific initiation of minus-strand DNA synthesis primed by human tRNA(Lys3) in vitro: studies of viral RNA molecules mutated in regions that flank the primer binding site. Li X, et al. **J Virol** 1996 Aug; 70(8):4996–5004

Incorporation of functional human immunodeficiency virus type 1 integrase into virions independent of the Gag–Pol precursor protein. Liu H, et al. **J Virol** 1997 Oct; 71(10):7704–10

Late virus replication events in microglia are required for neurovirulent retrovirus-induced spongiform neurodegeneration: evidence from neural progenitor–derived chimeric mouse brains. Lynch WP, et al. **J Virol** 1996 Dec;70(12):8896–907

Characterization of human immunodeficiency virus type 1 matrix revertants: effects on virus assembly, Gag processing, and Env incorporation into virions. Ono A, et al. **J Virol** 1997 Jun;71(6):4409–18

The role of Gag in human immunodeficiency virus type 1 virion morphogenesis and early steps of the viral life cycle. Reicin AS, et al. **J Virol** 1996 Dec;70(12):8645–52

Analysis of cleavage site mutations between the NC and PR Gag domains of Rous sarcoma virus. Schatz G, et al. **J Virol** 1997 Jan;71(1):444–50

The Vif and Gag proteins of human immunodeficiency virus type 1 colocalize in infected human T cells. Simon JH, et al. **J Virol** 1997 Jul;71(7):5259–67

Human immunodeficiency virus type 1 capsid formation in reticulocyte lysates. Spearman P, et al. **J Virol** 1996 Nov; 70(11):8187–94

Membrane binding of human immunodeficiency virus type 1 matrix protein in vivo supports a conformational myristyl switch mechanism. Spearman P, et al. **J Virol** 1997 Sep; 71(9):6582–92

The Nef protein of human immunodeficiency virus type 1 enhances serine phosphorylation of the viral matrix. Swingler S, et al. **J Virol** 1997 Jun;71(6):4372–7

Altered Rous sarcoma virus Gag polyprotein processing and its effects on particle formation. Xiang Y, et al. **J Virol** 1997 Mar;71(3):2083–91

The carboxyl terminus of the human foamy virus Gag protein contains separable nucleic acid binding and nuclear transport domains. Yu SF, et al. **J Virol** 1996 Dec; 70(12):8255–62

Drug resistance during indinavir therapy is caused by mutations in the protease gene and in its Gag substrate cleavage sites. Zhang YM, et al. **J Virol** 1997 Sep; 71(9):6662–70

Differential membrane binding of the human immunodeficiency virus type 1 matrix protein. Zhou W, et al. **J Virol** 1996 Dec;70(12):8540–8

Interaction of the MAIDS defective virus with its host. Jolicoeur P. **Leukemia** 1997 Apr;11 Suppl 3:162

A high affinity binding site for the HIV-1 nucleocapsid protein. Berglund JA, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1042–9

In vitro selection of RNAs that bind to the human immunodeficiency virus type-1 gag polyprotein. Lochrie MA, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2902–10

A specific RNA structural motif mediates high affinity binding by the HIV-1 nucleocapsid protein (NCp7). Allen P, et al. **Virology** 1996 Nov 15;225(2):306–15

HIV-1 particle release mediated by Vpu is distinct from that mediated by p6. Schwartz MD, et al. **Virology** 1996 Oct 1;224(1):302–9

PHARMACOLOGY

HIV-1 nucleocapsid protein and replication protein A influence the strand displacement DNA synthesis of lentiviral reverse transcriptase [letter] Amacker M, et al. **AIDS** 1997 Mar 15;11(4):534–6

A recombinant HIV gag p17 protein suppresses the function of normal T cells. Eugen-Olsen J, et al. **Biochem Soc Trans** 1997 May;25(2):220S

Enhancement of monocyte migration and phagocytosis by the bovine immunodeficiency-like virus Gag proteins. Rovid AH, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jan 1;14(1):18–25

NCp7 activates HIV-1Lai RNA dimerization by converting a transient loop-loop complex into a stable dimer. Muriaux D, et al. **J Biol Chem** 1996 Dec 27;271(52):33686–92

HIV-1 p17 and IFN-gamma both induce fructose 1,6-bisphosphatase. Besançon F, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):461–7

PHYSIOLOGY

Dynamic interactions of the Gag polyprotein. Craven RC, et al. **Curr Top Microbiol Immunol** 1996;214:65–94 (113 ref.)

Proteolytic processing and particle maturation. Vogt VM. **Curr Top Microbiol Immunol** 1996;214:95–131 (154 ref.)

Defined amino acids in the gag proteins of human immunodeficiency virus type 1 are functionally active during virus assembly. Kattenbeck B, et al. **Intervirology** 1996;39(1–2):32–9 (55 ref.)

Synthesis and assembly of chimeric human immunodeficiency virus gag pseudovirions [published erratum appears in Intervirology 1996;39(4):258] Tobin GJ, et al. **Intervirology** 1996;39(1–2):40–8 (43 ref.)

Possible roles of HIV-1 nucleocapsid protein in the specificity of proviral DNA synthesis and in its variability. Lapadat-Tapolsky M, et al. **J Mol Biol** 1997 May 2; 268(2):250–60

Effects of mutations in Pr160gag-pol upon tRNA(Lys3) and Pr160gag–plo incorporation into HIV-1. Mak J, et al. **J Mol Biol** 1997 Jan 31;265(4):419–31

In vitro assembly of virus-like particles with Rous sarcoma virus Gag deletion mutants: identification of the p10 domain as a morphological determinant in the formation of spherical particles. Campbell S, et al. **J Virol** 1997 Jun; 71(6):4425–35

Structure–function studies of the human immunodeficiency virus type 1 matrix protein, p17. Cannon PM, et al. **J Virol** 1997 May;71(5):3474–83

Human immunodeficiency virus type 1 nucleocapsid protein specifically stimulates Mg2+–dependent DNA integration in vitro. Carteau S, et al. **J Virol** 1997 Aug;71(8):6225–9

Effect of mutations in the nucleocapsid protein (NCp7) upon Pr160(gag–pol) and tRNA(Lys) incorporation into human immunodeficiency virus type 1. Huang Y, et al. **J Virol** 1997 Jun;71(6):4378–84

Equine infectious anemia virus utilizes a YXXL motif within the late assembly domain of the Gag p9 protein. Puffer BA, et al. **J Virol** 1997 Sep;71(9):6541–6

Pleiotropic mutations in the HIV-1 matrix protein that affect diverse steps in replication. Casella CR, et al. **Virology** 1997 Feb 17;228(2):294–306

The glycosylated gag protein of MuLV is a determinant of neuroinvasiveness: analysis of second site revertants of a mutant MuLV lacking expression of this protein. Portis JL, et al. **Virology** 1996 Dec 15;226(2):384–92

GENE PRODUCTS, NEF

The role of NEF in the primate Lentivirus life cycle. Proceedings of the 5th Forum in Virology. **Res Virol** 1997 Jan–Feb;148(1):21–81

BIOSYNTHESIS

Clustered localization of oligomeric Nef protein of human immunodeficiency virus type 1 on the cell surface. Fujii Y, et al. **FEBS Lett** 1996 Oct 21;395(2–3):257–61

Attenuated SIV imparts immunity to challenge with pathogenic spleen–derived SIV but cannot prevent repair of the nef deletion. Stahl–Hennig C, et al. **Immunol Lett** 1996 Jun;51(1–2):129–35

CHEMISTRY

Solution structure of a polypeptide from the N terminus of the HIV protein Nef. Barnham KJ, et al. **Biochemistry** 1997 May 20;36(20):5970–80

The N-terminal Arg-rich region of human immunodeficiency virus types 1 and 2 and simian immunodeficiency virus Nef is involved in RNA binding. Echarri A, et al. **Eur J Biochem** 1997 May 15;246(1):38–44

A three-dimensional NMR experiment with improved sensitivity for carbonyl–carbonyl J correlation in proteins. Grzesiek S, et al. **J Biomol NMR** 1997 Feb;9(2):207–11

Human immunodeficiency virus (HIV) Nef is an RNA binding protein in cell–free systems. Echarri A, et al. **J Mol Biol** 1996 Oct 11;262(5):640–51

Refined solution structure and backbone dynamics of HIV–1 Nef. Grzesiek S, et al. **Protein Sci** 1997 Jun;6(6):1248–63

Reading between the lines: SH3 recognition of an intact protein. Lim WA. **Structure** 1996 Jun 15;4(6):657–9 (23 ref.)

DEFICIENCY

Attenuated SIV imparts immunity to challenge with pathogenic spleen–derived SIV but cannot prevent repair of the nef deletion. Stahl–Hennig C, et al. **Immunol Lett** 1996 Jun;51(1–2):129–35

GENETICS

HIV type 1 Nef perturbs eye lens development in transgenic mice. Dickie P. **AIDS Res Hum Retroviruses** 1996 Feb 10; 12(3):177–89

Live attenuated SIV vaccines are not effective in a postexposure vaccination model. Linhart H, et al. **AIDS Res Hum Retroviruses** 1997 May 1;13(7):593–9

Growth dominance of a revertant virus generated during in vitro serial passage of nef frameshift mutant of HIV-1. Fujinaga K, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):96–101

CDC42 and Rac1 are implicated in the activation of the Nef-associated kinase and replication of HIV-1. Lu X, et al. **Curr Biol** 1996 Dec 1;6(12):1677–84

Regulated expression vectors demonstrate cell–type–specific sensitivity to human immunodeficiency virus type 1 Nef–induced cytostasis. Cooke SJ, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):381–92

Loss of the SIVsmmPBj14 phenotype and nef genotype during long–term survival of macaques infected by mucosal routes. Schwiebert RS, et al. **Virology** 1997 Mar 31; 230(1):82–92

IMMUNOLOGY

Identification of a novel HLA–B*2705–restricted cytotoxic T–lymphocyte epitope within a conserved region of HIV–1 Nef [letter] Goulder PJ, et al. **AIDS** 1997 Mar 15; 11(4):536–8

Unraveling the function of HIV type 1 Nef. Geleziunas R, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20; 12(17):1579–82 (31 ref.)

Live attenuated SIV vaccines are not effective in a postexposure vaccination model. Linhart H, et al. **AIDS Res Hum Retroviruses** 1997 May 1;13(7):593–9

Induction of HIV–1 Nef–specific cytotoxic T lymphocytes by Nef–expressing DNA vaccine. Asakura Y, et al. **Am J Hematol** 1996 Oct;53(2):116–7

Epitope mapping of murine monoclonal antibodies against human immunodeficiency virus type 1 Nef. Otake K, et al. **Exp Anim** 1997 Jan;46(1):53–8

Structural constraints of HIV–1 Nef may curtail escape from HLA–B7–restricted CTL recognition. Bauer M, et al. **Immunol Lett** 1997 Feb;55(2):119–22

Potential deleterious effect of anti–viral cytotoxic lymphocyte through the CD95 (FAS/APO–1)–mediated pathway during chronic HIV infection. Garcia S, et al. **Immunol Lett** 1997 Jun 1;57(1–3):53–8

Human immune response to HIV–1 Nef. II. Induction of HIV–1/HIV–2 Nef cross–reactive cytotoxic T lymphocytes in peripheral blood lymphocytes of non–infected healthy individuals. Lucchiari–Hartz M, et al. **Int Immunol** 1996 Apr;8(4):577–84

In vitro cytocidal effects of human immunodeficiency virus type 1 Nef on unprimed human CD4+ T cells without MHC restriction. Fujii Y, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):2943–51

Protection of monkeys vaccinated with vpr– and/or nef–defective simian immunodeficiency virus strain mac/human immunodeficiency virus type 1 chimeric viruses: a potential candidate live–attenuated human AIDS vaccine. Igarashi T, et al. **J Gen Virol** 1997 May;78 (Pt 5):985–9

Rapid development of vaccine protection in macaques by live–attenuated simian immunodeficiency virus. Stahl–Hennig C, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):2969–81

Dynamics of viral variants in HIV–1 Nef and specific cytotoxic T lymphocytes in vivo. Haas G, et al. **J Immunol** 1996 Nov 1;157(9):4212–21

Construction, replication, and immunogenic properties of a simian immunodeficiency virus expressing interleukin–2. Gundlach BR, et al. **J Virol** 1997 Mar;71(3):2225–32

Recognition of prominent viral epitopes induced by immunization with human immunodeficiency virus type 1 regulatory genes. Hinkula J, et al. **J Virol** 1997 Jul; 71(7):5528–39

Oral immunization with recombinant Mycobacterium bovis BCG simian immunodeficiency virus nef induces local and systemic cytotoxic T–lymphocyte responses in mice. Lagranderie M, et al. **J Virol** 1997 Mar;71(3):2303–9

Positive selection of HIV–1 cytotoxic T lymphocyte escape variants during primary infection. Price DA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1890–5

Amplification of T–cell and antibody responses in DNA–based immunization with HIV–1 Nef by co–injection with a GM–CSF expression vector. Svanholm C, et al. **Scand J Immunol** 1997 Sep;46(3):298–303

METABOLISM

A novel acyl–CoA thioesterase enhances its enzymatic activity by direct binding with HIV Nef. Watanabe H, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):234–9

Nef and PAK: virulence factor and cellular accomplice. Trono D, et al. **Chem Biol** 1997 Jan;4(1):13–5 (23 ref.)

HIV–1: is Nef a PAK animal? Cullen BR. **Curr Biol** 1996 Dec 1;6(12):1557–9 (15 ref.)

Activation of PAK by HIV and SIV Nef: importance for AIDS in rhesus macaques. Sawai ET, et al. **Curr Biol** 1996 Nov 1;6(11):1519–27

Association of human immunodeficiency virus Nef protein with actin is myristoylation dependent and influences its subcellular localization. Fackler OT, et al. **Eur J Biochem** 1997 Aug 1;247(3):843–51

The N–terminus of Nef from HIV–1/SIV associates with a protein complex containing Lck and a serine kinase. Baur AS, et al. **Immunity** 1997 Mar;6(3):283–91

GENE PRODUCTS, NEF

The HIV-1 Nef protein acts as a connector with sorting pathways in the Golgi and at the plasma membrane. Mangasarian A, et al. **Immunity** 1997 Jan;6(1):67–77

SH3-mediated Hck tyrosine kinase activation and fibroblast transformation by the Nef protein of HIV-1. Briggs SD, et al. **J Biol Chem** 1997 Jul 18;272(29):17899–902

Protein kinase C-mediated phosphorylation of HIV-I nef in human cell lines. Coates K, et al. **J Biol Chem** 1997 May 9;272(19):12289–94

Binding of HIV-1 Nef to a novel thioesterase enzyme correlates with Nef-mediated CD4 down-regulation. Liu LX, et al. **J Biol Chem** 1997 May 23;272(21):13779–85

The human immunodeficiency virus type 1 Nef protein functions as a protein kinase C substrate in vitro. Coates K, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):837–44

From negative factor to a critical role in virus pathogenesis: the changing fortunes of Nef. Harris M. **J Gen Virol** 1996 Oct;77 (Pt 10):2379–92 (121 ref.)

Molecular analysis of the cytoplasmic domain of CD4: overlapping but noncompetitive requirement for lck association and down-regulation by Nef. Gratton S, et al. **J Immunol** 1996 Oct 15;157(8):3305–11

Regulation of HIV-1 infection in astrocytes: expression of Nef, TNF-alpha and IL-6 is enhanced in coculture of astrocytes with macrophages. Fiala M, et al. **J Neurovirol** 1996 Jun;2(3):158–66

Human immunodeficiency virus type 1 Nef binds directly to Lck and mitogen-activated protein kinase, inhibiting kinase activity. Greenway A, et al. **J Virol** 1996 Oct; 70(10):6701–8

Human immunodeficiency virus types 1 and 2 and simian immunodeficiency virus Nef use distinct but overlapping target sites for downregulation of cell surface CD4. Hua J, et al. **J Virol** 1997 Sep;71(9):6742–8

Induction of phosphorylation of human immunodeficiency virus type 1 Nef and enhancement of CD4 downregulation by phorbol myristate acetate. Luo T, et al. **J Virol** 1997 Mar;71(3):2535–9

Specific cleavage sites of Nef proteins from human immunodeficiency virus types 1 and 2 for the viral proteases. Schorr J, et al. **J Virol** 1996 Dec;70(12):9051–4

The Nef protein of human immunodeficiency virus type 1 enhances serine phosphorylation of the viral matrix. Swingler S, et al. **J Virol** 1997 Jun;71(6):4372–7

Heparin-binding capacity of the HIV-1 NEF-protein allows one-step purification and biochemical characterization. Kohleisen B, et al. **J Virol Methods** 1996 Jun;60(1):89–101

Interleukin 10 is induced by recombinant HIV-1 Nef protein involving the calcium/calmodulin-dependent phosphodiesterase signal transduction pathway. Brigino E, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3178–82

Use of the two-hybrid system to identify cellular partners of the HIV1 Nef protein. Benichou S, et al. **Res Virol** 1997 Jan-Feb;148(1):71–3 (30 ref.)

Analysis of the interactions between Nef and cellular proteins. Coates K, et al. **Res Virol** 1997 Jan-Feb; 148(1):68–70 (14 ref.)

HIV-1 Nef association with cellular serine kinase correlates with enhanced virion infectivity and efficient proviral DNA synthesis. Wiskerchen M, et al. **Virology** 1996 Oct 1;224(1):292–301

PHARMACOLOGY

Replication of HIV-1 in human peripheral blood mononuclear cells activated by exogenous Nef [letter] Torres BA, et al. **AIDS** 1996 Aug;10(9):1042–3

Cytotoxicity resulting from addition of HIV-1 Nef N-terminal peptides to yeast and bacterial cells. Macreadie IG, et al. **Biochem Biophys Res Commun** 1997 Mar 27; 232(3):707–11

PHYSIOLOGY

Interference of HIV-1 Nef in the sphingomyelin transduction pathway activated by tumour necrosis factor-alpha in human glial cells. Richard A, et al. **AIDS** 1997 Jan; 11(1):F1–7

V beta activation by HIV Nef protein: detection by a simple amplification procedure. Tanabe T, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):509–13

Separable functions of Nef disrupt two aspects of T cell receptor machinery: CD4 expression and CD3 signaling. Iafrate AJ, et al. **EMBO J** 1997 Feb 17;16(4):673–84

Pseudotyping human immunodeficiency virus type 1 (HIV-1) by the glycoprotein of vesicular stomatitis virus targets HIV-1 entry to an endocytic pathway and suppresses both the requirement for Nef and the sensitivity to cyclosporin A. Aiken C. **J Virol** 1997 Aug;71(8):5871–7

The nef gene products of both simian and human immunodeficiency viruses enhance virus infectivity and are functionally interchangeable. Sinclair E, et al. **J Virol** 1997 May;71(5):3641–51

Nef proteins encoded by human and simian immunodeficiency viruses induce the accumulation of endosomes and lysosomes in human T cells. Sanfridson A, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):873–8

The role of HIV1 Nef in T-cell activation: Nef impairs induction of Th1 cytokines and interacts with the Src family tyrosine kinase Lck. Collette Y, et al. **Res Virol** 1997 Jan-Feb;148(1):52–8 (44 ref.)

Towards a consensus for a role of Nef in both viral replication and immunomodulation? Collette Y. **Res Virol** 1997 Jan-Feb;148(1):23–30 (43 ref.)

HIV1 Nef: the Machiavelli of cellular activation. Greenway A, et al. **Res Virol** 1997 Jan-Feb;148(1):58–64 (51 ref.)

The positive influence of Nef on viral infectivity. Guatelli JC. **Res Virol** 1997 Jan-Feb;148(1):34–7 (34 ref.)

Regulation of Nef function. Luo T, et al. **Res Virol** 1997 Jan-Feb;148(1):64–8 (27 ref.)

The multifaceted role of HIV Nef. Mangasarian A, et al. **Res Virol** 1997 Jan-Feb;148(1):30–3 (41 ref.)

Nef and the Nef-associated kinase. Sawai ET, et al. **Res Virol** 1997 Jan-Feb;148(1):47–52 (59 ref.)

Structural and functional correlates between HIV-1 and SIV Nef isolates. Garcia JV, et al. **Virology** 1996 Dec 15; 226(2):161–6

Human immunodeficiency virus type I Nef independently affects virion incorporation of major histocompatibility complex class I molecules and virus infectivity. Le Gall S, et al. **Virology** 1997 Mar 3;229(1):295–301

Intravirion generation of the C-terminal core domain of HIV-1 Nef by the HIV-1 protease is insufficient to enhance viral infectivity. Miller MD, et al. **Virology** 1997 Aug 4; 234(2):215–25

Evidence for the association of Nef protein with HIV-2 virions. Fackler OT, et al. **Virus Res** 1996 Dec; 46(1-2):105–10

[Function of human immunodeficiency virus type 1 nef gene product in virus replication] Tokunaga K. **Hokkaido Igaku Zasshi** 1996 May;71(3):345–57 (Eng. Abstr.) **(Jpn)**

TOXICITY

Human immunodeficiency virus type 1 Nef protein on the cell surface is cytocidal for human CD4+ T cells. Fujii Y, et al. **FEBS Lett** 1996 Sep 9;393(1):105–8

Soluble Nef antigen of HIV-1 is cytotoxic for human CD4+ T cells. Fujii Y, et al. **FEBS Lett** 1996 Sep 9;393(1):93–6

GENE PRODUCTS, POL

see related
ENDONUCLEASES
PEPTIDE HYDROLASES
RNA-DIRECTED DNA POLYMERASE

BIOSYNTHESIS

Protein composition and morphology of human foamy virus intracellular cores and extracellular particles. Morozov VA, et al. **Virology** 1997 Feb 17;228(2):307–17

CHEMISTRY

Expression, purification, and characterization of an active RNase H domain of the hepatitis B viral polymerase. Wei X, et al. **J Biol Chem** 1996 Dec 20;271(51):32617–22

GENETICS

Expression of human foamy virus reverse transcriptase involves a spliced pol mRNA. Jordan I, et al. **Virology** 1996 Oct 1;224(1):314–9

IMMUNOLOGY

Mimicry of a 21.5 kDa myelin basic protein peptide by a Maedi Visna virus polymerase peptide does not contribute to the pathogenesis of encephalitis in sheep. Davies JM, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1-3):127–39

Identification of HTLV-1-specific CTL directed against synthetic and naturally processed peptides in HLA-B*3501 transgenic mice. Schönbach C, et al. **Virology** 1996 Dec 1;226(1):102–12

METABOLISM

Sequence- and structure-specific determinants in the interaction between the RNA encapsidation signal and reverse transcriptase of avian hepatitis B viruses. Beck J, et al. **J Virol** 1997 Jul;71(7):4971–80

Human immunodeficiency virus type 1 Vif does not influence expression or virion incorporation of gag-, pol-, and env-encoded proteins. Fouchier RA, et al. **J Virol** 1996 Dec;70(12):8263–9

PHYSIOLOGY

Proteolytic processing and particle maturation. Vogt VM. **Curr Top Microbiol Immunol** 1996;214:95–131 (154 ref.)

GENE PRODUCTS, R see **GENE PRODUCTS, VPR**

GENE PRODUCTS, RAP see **GENE PRODUCTS, VPR**

GENE PRODUCTS, RAS see **RAS PROTEINS**

GENE PRODUCTS, REV

RevM10-expressing T cells derived in vivo from transduced human hematopoietic stem-progenitor cells inhibit human immunodeficiency virus replication. Bonyhadi ML, et al. **J Virol** 1997 Jun;71(6):4707–16

ANTAGONISTS & INHIBITORS

Potent inhibition of human immunodeficiency virus type 1 in primary T cells and alveolar macrophages by a combination anti-Rev strategy delivered in an adeno-associated virus vector. Inouye RT, et al. **J Virol** 1997 May;71(5):4071–8

Distinct domains of IkappaB-alpha inhibit human immunodeficiency virus type 1 replication through NF-kappaB and Rev. Wu BY, et al. **J Virol** 1997 Apr; 71(4):3161–7

CHEMISTRY

Structural RNA mimetics: N3'-->P5' phosphoramidate DNA analogs of HIV-1 RRE and TAR RNA form A-type helices that bind specifically to Rev and Tat-related peptides. Rigl CT, et al. **Biochemistry** 1997 Jan 21; 36(3):650–9

Probing the structure of HIV-1 Rev by protein footprinting of multiple monoclonal antibody-binding sites. Jensen TH, et al. **FEBS Lett** 1997 Sep 1;414(1):50–4

A docking and modelling strategy for peptide-RNA complexes: applications to BIV Tat-TAR and HIV Rev-RBE. Srinivasan J, et al. **Fold Des** 1996;1(6):463–72

Construction of a cell-based high-flux assay for the rev protein of HIV-1. Tang RY, et al. **J Virol Methods** 1997 May;65(2):153–8

An RNA groove [news] Ellington AD, et al. **Nat Struct Biol** 1996 Dec;3(12):981–4

Deep penetration of an alpha-helix into a widened RNA major groove in the HIV-1 rev peptide-RNA aptamer complex. Ye X, et al. **Nat Struct Biol** 1996 Dec; 3(12):1026–33

Anti-peptide aptamers recognize amino acid sequence and bind a protein epitope. Xu W, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7475–80

Probing the structure of the HIV-1 Rev trans-activator protein by functional analysis. Thomas SL, et al. **Protein Eng** 1997 Feb;10(2):103–7

Oligomerization of HIV-1 Rev mutants in the cytoplasm and during nuclear import. Szilvay AM, et al. **Virology** 1997 Aug 18;235(1):73–81

DRUG EFFECTS

Inhibition of Rev.RRE complexation by triplex tethered oligonucleotide probes. Moses AC, et al. **Bioorg Med Chem** 1997 Jun;5(6):1123–9

Modulation of the Rev-RRE interaction by aromatic heterocyclic compounds. Zapp ML, et al. **Bioorg Med Chem** 1997 Jun;5(6):1149–55

Niruriside, a new HIV REV/RRE binding inhibitor from Phyllanthus niruri. Qian-Cutrone J, et al. **J Nat Prod** 1996 Feb;59(2):196–9

GENETICS

Decoy approach using RNA-DNA chimera oligonucleotides to inhibit the regulatory function of human immunodeficiency virus type 1 Rev protein. Nakaya T, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):319–25

A non-canonical base pair within the human immunodeficiency virus rev-responsive element is involved in both rev and small molecule recognition. Werstuck G, et al. **Chem Biol** 1996 Feb;3(2):129–37

Gene therapy for HIV infection. Morgan RA. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:41–4

DNA and mRNA sequence of the immune protective DNA ligase I gene match the rev response element of HIV. Dandekar T, et al. **DNA Seq** 1996;6(2):119–21

High transdominant RevM10 protein levels are required to inhibit HIV-1 replication in cell lines and primary T cells: implication for gene therapy of AIDS. Plavec I, et al. **Gene Ther** 1997 Feb;4(2):128–39

Human immunodeficiency virus type 1 Rev function requires continued synthesis of its target mRNA. Iacampo S, et al. **J Virol** 1996 Dec;70(12):8332–9

Cell and viral regulatory elements enhance the expression and function of a human immunodeficiency virus inhibitory gene. Ranga U, et al. **J Virol** 1997 Sep;71(9):7020–9

Identification of an RNA sequence within an intracisternal-A particle element able to replace Rev-mediated posttranscriptional regulation of human immunodeficiency virus type 1. Tabernero C, et al. **J Virol** 1997 Jan; 71(1):95–101

Construction of a cell-based high-flux assay for the rev protein of HIV-1. Tang RY, et al. **J Virol Methods** 1997 May;65(2):153–8

Functional consequences of natural sequence variation in the activation domain of HIV-1 Rev. Hua J, et al. **Virology** 1996 Aug 15;222(2):423–9

Posttranscriptional regulation by Rev protein of human immunodeficiency virus type 1 results in nonrandom nuclear localization of gag mRNA. Romanov VI, et al. **Virology** 1997 Feb 17;228(2):360–70

Replacement of posttranscriptional regulation in SIVmac239 generated a Rev-independent infectious virus able to propagate in rhesus peripheral blood mononuclear cells. von Gegerfelt A, et al. **Virology** 1997 Jun 9;232(2):291–9

Human immunodeficiency virus type 1 Rev-dependent effects on the late gene expression of recombinant human adenovirus. Williams RD, et al. **Virus Genes** 1996; 13(2):111–20

IMMUNOLOGY

Enhancement of humoral immunity to SIVenv following

simultaneous inoculation of mice by three recombinant adenoviruses encoding SIVenv/poliovirus chimeras, Tat and Rev. Chenciner N, et al.
AIDS Res Hum Retroviruses 1997 Jun 10;13(9):801–6

Intracellular inhibition of HIV-1 replication using a dual protein- and RNA-based strategy. Duan L, et al.
Gene Ther 1997 Jun;4(6):533–43

Human immunodeficiency virus type 1 Rev- and Tat-specific cytotoxic T lymphocyte frequencies inversely correlate with rapid progression to AIDS. van Baalen CA, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1913–8

Recognition of prominent viral epitopes induced by immunization with human immunodeficiency virus type 1 regulatory genes. Hinkula J, et al. **J Virol** 1997 Jul; 71(7):5528–39

METABOLISM

Efficient modification of RNA by porphyrin cation photochemistry: monitoring the folding of coaxially stacked RNA helices in tRNA(Phe) and the human immunodeficiency virus type 1 rev response element RNA. Celander DW, et al. **Biochemistry** 1996 Sep 17; 35(37):12061–9

Inhibition of HIV-1 Rev-RRE interaction by diphenylfuran derivatives. Ratmeyer L, et al. **Biochemistry** 1996 Oct 22; 35(42):13689–96

Nucleolar protein B23 stimulates nuclear import of the HIV-1 Rev protein and NLS-conjugated albumin. Szebeni A, et al. **Biochemistry** 1997 Apr 1;36(13):3941–9

A role for Rev in the association of HIV-1 gag mRNA with cytoskeletal beta-actin and viral protein expression. Kimura T, et al. **Biochimie** 1996;78(11–12):1075–80 (48 ref.)

The post-transcriptional regulator Rev of HIV: implications for its interaction with the nucleolar protein B23. Miyazaki Y, et al. **Biochimie** 1996;78(11–12):1081–6

Inhibition of Rev.RRE complexation by triplex tethered oligonucleotide probes. Moses AC, et al.
Bioorg Med Chem 1997 Jun;5(6):1123–9

Modulation of the Rev-RRE interaction by aromatic heterocyclic compounds. Zapp ML, et al.
Bioorg Med Chem 1997 Jun;5(6):1149–55

A structural model for the HIV-1 Rev-RRE complex deduced from altered-specificity rev variants isolated by a rapid genetic strategy. Jain C, et al. **Cell** 1996 Oct 4; 87(1):115–25

Leptomycin B is an inhibitor of nuclear export: inhibition of nucleo-cytoplasmic translocation of the human immunodeficiency virus type 1 (HIV-1) Rev protein and Rev-dependent mRNA. Wolff B, et al. **Chem Biol** 1997 Feb;4(2):139–47

HIV Rev uses a conserved cellular protein export pathway for the nucleocytoplasmic transport of viral RNAs. Fritz CC, et al. **Curr Biol** 1996 Jul 1;6(7):848–54

The human HIV-1 Rev binding-protein hRIP/Rab (HRB) maps to chromosome 2q36. Jones T, et al. **Genomics** 1997 Feb 15;40(1):198–9

Protection of primary human T cells from HIV infection by Trev: a transdominant fusion gene. Chinen J, et al.
Hum Gene Ther 1997 May 1;8(7):861–8

Harziphilone and fleephilone, two new HIV REV/RRE binding inhibitors produced by Trichoderma harzianum. Qian-Cutrone J, et al. **J Antibiot (Tokyo)** 1996 Oct; 49(10):990–7

Mutations in the nuclear export signal of human ran-binding protein RanBP1 block the Rev-mediated posttranscriptional regulation of human immunodeficiency virus type 1. Zolotukhin AS, et al. **J Biol Chem** 1997 Apr 25;272(17):11356–60

Location of the HIV-1 Rev protein during mitosis: inactivation of the nuclear export signal alters the pathway for postmitotic reentry into nucleoli. Dundr M, et al.
J Cell Sci 1996 Sep;109 (Pt 9):2239–51

A dynamic in vivo view of the HIV-I Rev-RRE interaction. Charpentier B, et al. **J Mol Biol** 1997 Mar 14;266(5):950–62

Structural change in Rev responsive element RNA of HIV-1 on binding Rev peptide. Peterson RD, et al.
J Mol Biol 1996 Dec 20;264(5):863–77

Inactivation of the human immunodeficiency virus type 1 inhibitory elements allows Rev-independent expression of Gag and Gag/protease and particle formation. Schneider R, et al. **J Virol** 1997 Jul;71(7):4892–903

Human chromosome 6- and 11-encoded factors support human immunodeficiency virus type 1 Rev function in A9 cells. Shukla RR, et al. **J Virol** 1996 Dec;70(12):9064–8

Inhibition of HIV-1 replication by targeting the Rev protein. Nakaya T, et al. **Leukemia** 1997 Apr;11 Suppl 3:134–7 (24 ref.)

A role for nucleoporin FG repeat domains in export of human immunodeficiency virus type 1 Rev protein and RNA from the nucleus. Stutz F, et al. **Mol Cell Biol** 1996 Dec; 16(12):7144–50

New approach for inhibiting Rev function and HIV-1 production using the influenza virus NS1 protein. Qian XY, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8873–7

Anti-peptide aptamers recognize amino acid sequence and bind a protein epitope. Xu W, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7475–80

Dynamics of RNA-protein interactions in the HIV-1 Rev-RRE complex visualized by 6-thioguanosine-mediated photocrosslinking. Ping YH, et al. **RNA** 1997 Aug;3(8):850–60

Role REVersal: understanding how RRE RNA binds its peptide ligand. Grate D, et al. **Structure** 1997 Jan 15; 5(1):7–11 (23 ref.)

Definition of the RRE binding and activation domains of the caprine arthritis encephalitis virus Rev protein. Schoborg RV, et al. **Virology** 1996 Dec 1;226(1):113–21

Oligomerization of HIV-1 Rev mutants in the cytoplasm and during nuclear import. Szilvay AM, et al. **Virology** 1997 Aug 18;235(1):73–81

Specific binding of polypyrimidine tract binding protein and hnRNP A1 to HIV-1 CRS elements. Black AC, et al.
Virus Genes 1996;12(3):275–85

PHARMACOLOGY

Interleukin-10 gene expression induced by HIV-1 Tat and Rev in the cells of HIV-1 infected individuals. Blazevic V, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):208–14

PHYSIOLOGY

HIV Rev-dependent binding of SF2/ASF to the Rev response element: possible role in Rev-mediated inhibition of HIV RNA splicing. Powell DM, et al.
Proc Natl Acad Sci U S A 1997 Feb 4;94(3):973–8

Rev/RRE-independent Mason-Pfizer monkey virus constitutive transport element-dependent propagation of SIVmac239 vectors using a single round of replication assay. Rizvi TA, et al. **Virology** 1996 Aug 15;222(2):457–63

GENE PRODUCTS, REX

GENETICS

The human HIV-1 Rev binding-protein hRIP/Rab (HRB) maps to chromosome 2q36. Jones T, et al. **Genomics** 1997 Feb 15;40(1):198–9

Increased expression of interleukin-2 receptor alpha on peripheral blood mononuclear cells in HTLV-I tax/rex mRNA-positive asymptomatic carriers. Okayama A, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):70–5

Human T-cell leukemia virus type 2 Rex inhibits pre-mRNA splicing in vitro at an early stage of spliceosome formation. Bakker A, et al. **J Virol** 1996 Aug;70(8):5511–8

Transrepression of lck gene expression by human T-cell leukemia virus type 1-encoded p40tax. Lemasson I, et al. **J Virol** 1997 Mar;71(3):1975–83

IMMUNOLOGY

Antibody reactivities to tumor-suppressor protein p53 and HTLV-I Tof, Rex and Tax in HTLV-I-infected people with differing clinical status. Chen YM, et al.
Int J Cancer 1997 Apr 10;71(2):196–202

METABOLISM

The activation domain of a hormone inducible HTLV-1 Rex protein determines colocalization with the nuclear pore. Rehberger S, et al. **Exp Cell Res** 1997 Jun 15;233(2):363–71

Enhancement of nucleocytoplasmic export of HTLV-1 Rex mRNA through cis and trans interactions of the mRNA with the complex of Rex protein and Rex-responsive element. Fu L, et al. **FEBS Lett** 1996 Oct 28;396(1):47–52

The human T-cell lymphotropic virus type 1 Tof protein contains a bipartite nuclear localization signal that is able to functionally replace the amino-terminal domain of Rex. D'Agostino DM, et al. **J Virol** 1997 Jan;71(1):75–83

Specific binding of polypyrimidine tract binding protein and hnRNP A1 to HIV-1 CRS elements. Black AC, et al.
Virus Genes 1996;12(3):275–85

PHYSIOLOGY

Inhibition of human T-cell leukemia virus type 2 Rex function by truncated forms of Rex encoded in alternatively spliced mRNAs. Ciminale V, et al. **J Virol** 1997 Apr; 71(4):2810–8

GENE PRODUCTS, SOR see **GENE PRODUCTS, VIF**

GENE PRODUCTS, TAT

ADMINISTRATION & DOSAGE

Tat-mediated protein delivery can facilitate MHC class I presentation of antigens. Moy P, et al. **Mol Biotechnol** 1996 Oct;6(2):105–13

ANALYSIS

Detection of specific human immunodeficiency virus type 1 Tat-TAR complexes in the presence of mild denaturing conditions. Fong SE, et al. **J Virol Methods** 1997 Jun; 66(1):91–101

ANTAGONISTS & INHIBITORS

2-Glycineamide-5-chlorophenyl 2-pyrryl ketone, a non-benzodiazepin Tat antagonist, is effective against acute and chronic HIV-1 infections in vitro. Kira T, et al.
Antiviral Res 1996 Oct;32(2):55–62

BIOSYNTHESIS

The human immunodeficiency virus type 1 Tat protein potentiates zidovudine-induced cellular toxicity in transgenic mice. Prakash O, et al.
Arch Biochem Biophys 1997 Jul 15;343(2):173–80

The human immunodeficiency virus type-1 (HIV-1) Tat protein and Bcl-2 gene expression. Zauli G, et al.
Leuk Lymphoma 1996 Nov;23(5–6):551–60 (93 ref.)

CHEMISTRY

Structural characterization of the metal binding site in the cysteine-rich region of HIV-1 Tat protein. Huang HW, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):615–21

Structural RNA mimetics: N3'-->P5' phosphoramidate DNA analogs of HIV-1 RRE and TAR RNA form A-type helices that bind specifically to Rev and Tat-related peptides. Rigl CT, et al. **Biochemistry** 1997 Jan 21; 36(3):650–9

Getting into the major groove. Protein-RNA interactions. Moras D, et al. **Curr Biol** 1996 May 1;6(5):530–2 (15 ref.)

Structural studies of the equine infectious anemia virus trans-activator protein. Willbold D, et al.
Eur J Biochem 1996 Aug 15;240(1):45–52

A docking and modelling strategy for peptide-RNA complexes: applications to BIV Tat-TAR and HIV Rev-RBE. Srinivasan J, et al. **Fold Des** 1996;1(6):463–72

Conformational heterogeneity in two regions of TAT results in structural variations of this protein as a function of HIV-1 isolates. Gregoire CJ, et al. **J Biol Chem** 1996 Sep 13;271(37):22641–6

Aqueous solution structure of a hybrid lentiviral Tat peptide and a model of its interaction with HIV-1 TAR RNA. Mujeeb A, et al. **J Biomol Struct Dyn** 1996 Feb; 13(4):649–60

How Tat targets TAR: structure of the BIV peptide-RNA complex. Greenbaum NL. **Structure** 1996 Jan 15;4(1):5–9 (18 ref.)

Inhibition of HIV-1 transcription and virus replication using soluble Tat peptide analogs. Kashanchi F, et al.
Virology 1997 Jan 20;227(2):431–8

DRUG EFFECTS

Discovery of selective, small-molecule inhibitors of RNA complexes--I. The Tat protein/TAR RNA complexes required for HIV-1 transcription. Mei HY, et al.
Bioorg Med Chem 1997 Jun;5(6):1173–84

GENETICS

Upregulation of c-Fos in activated T lymphoid and monocytic cells by human immunodeficiency virus-1 Tat protein. Gibellini D, et al. **Blood** 1997 Mar 1;89(5):1654–64

Association of Tat with purified HIV-1 and HIV-2 transcription preinitiation complexes. García-Martínez LF, et al. **J Biol Chem** 1997 Mar 14;272(11):6951–8

Examination of TAR-independent Trans activation by human immunodeficiency virus type 1 Tat in human glial cells. Kim YS, et al. **J Neurosci Res** 1996 Mar 15; 43(6):652–66

Exon 1 leader sequences downstream of U5 are important for efficient human immunodeficiency virus type 1 gene expression. Lenz C, et al. **J Virol** 1997 Apr;71(4):2757–64

Transduction of CD34+ hematopoietic progenitor cells with an antitat gene protects T-cell and macrophage progeny from AIDS virus infection. Rosenzweig M, et al.
J Virol 1997 Apr;71(4):2740–6

Yeast SAS silencing genes and human genes associated with AML and HIV-1 Tat interactions are homologous with acetyltransferases. Reifnyder C, et al. **Nat Genet** 1997 May; 16(1):109

Optimal Tat-mediated activation of the HIV-1 LTR promoter requires a full-length TAR RNA hairpin. Verhoef K, et al. **Nucleic Acids Res** 1997 Feb 1; 25(3):496–502

An inhibitor of the Tat/TAR RNA interaction that effectively suppresses HIV-1 replication. Hamy F, et al.
Proc Natl Acad Sci U S A 1997 Apr 15;94(8):3548–53

Purification and functional characterization of wild-type and mutant HIV-1 and HIV-2 Tat proteins expressed in Escherichia coli. Orsini MJ, et al. **Protein Expr Purif** 1996 Sep;8(2):238–46

Tat-SF1: cofactor for stimulation of transcriptional elongation by HIV-1 Tat. Zhou Q, et al. **Science** 1996 Oct 25;274(5287):605–10

Block of Tat-mediated transactivation of tumor necrosis factor beta gene expression by polymeric-TAR decoys. Brother MB, et al. **Virology** 1996 Aug 1;222(1):252–6

Bovine immunodeficiency virus tat gene: cloning of two distinct cDNAs and identification, characterization, and immunolocalization of the tat gene products. Fong SE, et al. **Virology** 1997 Jul 7;233(2):339–57

Paracrine activation of the HIV-1 LTR promoter by the viral Tat protein is mechanistically similar to trans-activation within a cell. Verhoef K, et al.
Virology 1996 Nov 15;225(2):316–27

IMMUNOLOGY

Enhancement of humoral immunity to SIVenv following simultaneous inoculation of mice by three recombinant adenoviruses encoding SIVenv/poliovirus chimeras, Tat and Rev. Chenciner N, et al.
AIDS Res Hum Retroviruses 1997 Jun 10;13(9):801–6

Antibody against human immunodeficiency virus type 1 (HIV-1) Tat protein may have influenced the progression of AIDS in HIV-1-infected hemophiliac patients. Re MC, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):230-2

Protection against generalized autoimmunity of the nervous system (GANS), a novel animal model with combined features of EAE, EAN and EAU by a recombinant HIV-1 Tat37-72 peptide-based multiple T cell epitope vaccine. Schluesener HJ. **FEMS Immunol Med Microbiol** 1997 Mar; 17(3):179-86

HIV type 1 Tat protein enhances activation-but not Fas (CD95)-induced peripheral blood T cell apoptosis in healthy individuals. Katsikis PD, et al. **Int Immunol** 1997 Jun;9(6):835-41

A lipidated anti-Tat antibody enters living cells and blocks HIV-1 viral replication. Cruikshank WW, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Mar 1;14(3):193-203

Human immunodeficiency virus type 1 Rev- and Tat-specific cytotoxic T lymphocyte frequencies inversely correlate with rapid progression to AIDS. van Baalen CA, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1913-8

Introduction of soluble proteins into the MHC class I pathway by conjugation to an HIV tat peptide. Kim DT, et al. **J Immunol** 1997 Aug 15;159(4):1666-8

Protection against experimental nervous system autoimmune diseases by a human immunodeficiency virus-1 Tat peptide-based polyvalent vaccine. Schluesener HJ. **J Neurosci Res** 1996 Oct 15;46(2):258-62

Recognition of prominent viral epitopes induced by immunization with human immunodeficiency virus type 1 regulatory genes. Hinkula J, et al. **J Virol** 1997 Jul; 71(7):5528-39

Inhibition of human immunodeficiency virus type 1 replication in vitro by a novel combination of anti-Tat single-chain intrabodies and NF-kappa B antagonists. Mhashilkar AM, et al. **J Virol** 1997 Sep;71(9):6486-94

ISOLATION & PURIFICATION

Cloning, high-yield expression in Escherichia coli, and purification of biologically active HIV-1 Tat protein. Kirsch T, et al. **Protein Expr Purif** 1996 Aug;8(1):75-84

METABOLISM

TAR and Sp1-independent transactivation of HIV long terminal repeat by the Tat protein in the presence of human cytomegalovirus IE1/IE2. Dal Monte P, et al. **AIDS** 1997 Mar;11(3):297-303

Functional interaction between the HIV-1 Tat transactivator and the inhibitory domain of the Oct-2 cellular transcription factor. Liu YZ, et al. **AIDS** 1996 Oct; 10(12):1323-9

HIV-1 Tat protein can transactivate a heterologous TATAA element independent of viral promoter sequences and the trans-activation response element. Roebuck KA, et al. **AIDS** 1997 Feb;11(2):139-46

Upregulation of urokinase-type plasminogen activator by endogenous and exogenous HIV-1 Tat protein in tumour cell lines derived from BK virus/tat-transgenic mice. Rusnati M, et al. **AIDS** 1997 May;11(6):727-36

In vitro phosphorylation of human immunodeficiency virus type 1 Tat protein by protein kinase C: evidence for the phosphorylation of amino acid residue serine-46. Holmes AM. **Arch Biochem Biophys** 1996 Nov 1;335(1):8-12

A selection system to study protein-RNA interactions: functional display of HIV-1 Tat protein on filamentous bacteriophage M13. Hoffmann S, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):806-11

Structural characterization of the metal binding site in the cysteine-rich region of HIV-1 Tat protein. Huang HW, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):615-21

Chemical cross-linking of the human immunodeficiency virus type 1 Tat protein to synthetic models of the RNA recognition sequence TAR containing site-specific trisubstituted pyrophosphate analogues. Naryshkin NA, et al. **Biochemistry** 1997 Mar 25;36(12):3496-505

Dissection of the proposed base triple in human immunodeficiency virus TAR RNA indicates the importance of the Hoogsteen interaction. Tao J, et al. **Biochemistry** 1997 Mar 25;36(12):3491-5

Targeting the Tat-binding site of bovine immunodeficiency virus TAR RNA with a shape-selective rhodium complex. Lim AC, et al. **Bioorg Med Chem** 1997 Jun;5(6):1131-6

Discovery of selective, small-molecule inhibitors of RNA complexes--I. The Tat protein/TAR RNA complexes required for HIV-1 transcription. Mei HY, et al. **Bioorg Med Chem** 1997 Jun;5(6):1173-84

New features in RNA recognition: a Tat-TAR complex. Wemmer DE. **Chem Biol** 1996 Jan;3(1):17-9 (12 ref.)

Purification of a Tat-associated kinase reveals a TFIIH complex that modulates HIV-1 transcription. García-Martínez LF, et al. **EMBO J** 1997 May 15; 16(10):2836-50

Tat is required for efficient HIV-1 reverse transcription. Harrich D, et al. **EMBO J** 1997 Mar 17;16(6):1224-35

Iron chelation decreases human immunodeficiency virus-1 Tat potentiated tumor necrosis factor-induced NF-kappa B activation in Jurkat cells. Shatrov VA, et al. **Eur Cytokine Netw** 1997 Mar;8(1):37-43

Protection of primary human T cells from HIV infection by Trev: a transdominant fusion gene. Chinen J, et al. **Hum Gene Ther** 1997 May 1;8(7):861-8

HIV-1 Tat induces the expression of the interleukin-6 (IL6) gene by binding to the IL6 leader RNA and by interacting with CAAT enhancer-binding protein beta (NF-IL6) transcription factors. Ambrosino C, et al. **J Biol Chem** 1997 Jun 6;272(23):14883-92

The Tat protein of human immunodeficiency virus type 1 is a substrate and inhibitor of the interferon-induced, virally activated protein kinase, PKR. Brand SR, et al. **J Biol Chem** 1997 Mar 28;272(13):8388-95

The Tat protein of HIV-1 induces tumor necrosis factor-alpha production. Implications for HIV-1-associated neurological diseases. Chen P, et al. **J Biol Chem** 1997 Sep 5;272(36):22385-8

The association of HIV-1 Tat with nuclei is regulated by Ca2+ ions and cytosolic factors. Morgavi P, et al. **J Biol Chem** 1997 Apr 25;272(17):11256-60

Interaction of HIV-1 Tat protein with heparin. Role of the backbone structure, sulfation, and size. Rusnati M, et al. **J Biol Chem** 1997 Apr 25;272(17):11313-20

A truncated HIV-1 Tat protein basic domain rapidly translocates through the plasma membrane and accumulates in the cell nucleus. Vivès E, et al. **J Biol Chem** 1997 Jun 20;272(25):16010-7

A simple method for measurement of cell-substrate attachment forces: application to HIV-1 Tat. Channavajjala LS, et al. **J Cell Sci** 1997 Jan;110 (Pt 2):249-56

Biochemical and functional interaction of the human immunodeficiency virus type 1 Tat transactivator with the general transcription factor TFIIB. Veschambre P, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2235-45

Effect of the position of TAR on transcriptional activation by HIV-1 Tat in vivo. Wright S, et al. **J Mol Biol** 1996 Oct 18;263(1):1-7

The sequence and structure of the 3' arm of the first stem-loop of the human immunodeficiency virus type 2 trans-activation responsive region mediate Tat-2 transactivation. Browning C, et al. **J Virol** 1997 Oct; 71(10):8048-55

Murine leukemia virus-based Tat-inducible long terminal repeat replacement vectors: a new system for anti-human immunodeficiency virus gene therapy. Cannon PM, et al. **J Virol** 1996 Nov;70(11):8234-40

Potentiation of human immunodeficiency virus type 1 Tat by human cellular proteins. Greenberg ME, et al. **J Virol** 1997 Sep;71(9):7140-4

Interaction of human immunodeficiency virus type 1 Tat with a unique site of TFIID inhibits negative cofactor Dr1 and stabilizes the TFIID-TFIIA complex. Kashanchi F, et al. **J Virol** 1996 Aug;70(8):5503-10

Protein B23 is an important human factor for the nucleolar localization of the human immunodeficiency virus protein Tat. Li YP. **J Virol** 1997 May;71(5):4098-102

A human primary T-lymphocyte-derived human immunodeficiency virus type 1 Tat-associated kinase phosphorylates the C-terminal domain of RNA polymerase II and induces CAK activity. Nekhai S, et al. **J Virol** 1997 Oct;71(10):7436-41

Inhibition of human immunodeficiency virus type 1 and type 2 Tat function by transdominant Tat protein localized to both the nucleus and cytoplasm. Orsini MJ, et al. **J Virol** 1996 Nov;70(11):8055-63

Cooperation between herpes simplex virus type 1-encoded ICP0 and Tat to support transcription of human immunodeficiency virus type 1 long terminal repeat in vivo can occur in the absence of the TAR binding site. Schafer SL, et al. **J Virol** 1996 Oct;70(10):6937-46

Cationic liposome-mediated uptake of human immunodeficiency virus type 1 Tat protein into cells. Fong SE, et al. **J Virol Methods** 1997 Jun;66(1):149-57

The human immunodeficiency virus transactivator Tat interacts with the RNA polymerase II holoenzyme. Cujec TP, et al. **Mol Cell Biol** 1997 Apr;17(4):1817-23

The angiogenesis induced by HIV-1 tat protein is mediated by the Flk-1/KDR receptor on vascular endothelial cells. Albini A, et al. **Nat Med** 1996 Dec;2(12):1371-5

Enhanced processivity of RNA polymerase II triggered by Tat-induced phosphorylation of its carboxy-terminal domain. Parada CA, et al. **Nature** 1996 Nov 28; 384(6607):375-8

In vitro selection of RNA aptamers that can bind specifically to Tat protein of HIV-1. Yamamoto R, et al. **Nucleic Acids Symp Ser** 1995;(34):145-6

Activation of the JC virus Tat-responsive transcriptional control element by association of the Tat protein of human immunodeficiency virus 1 with cellular protein Pur alpha. Krachmarov CP, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14112-7

Trans-activation by human immunodeficiency virus Tat protein requires the C-terminal domain of RNA polymerase II. Okamoto H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11575-9

Does HIV tat protein also regulate genes of other viruses present in HIV infection? [letter] Ferbeyre G, et al. **Trends Biochem Sci** 1997 Apr;22(4):115-6

Distinct transcriptional pathways of TAR-dependent and TAR-independent human immunodeficiency virus type-1 transactivation by Tat. Yang L, et al. **Virology** 1997 Aug 18;235(1):48-64

PHARMACOKINETICS

Molecular determinants for cellular uptake of Tat protein of human immunodeficiency virus type 1 in brain cells. Ma M, et al. **J Virol** 1997 Mar;71(3):2495-9

PHARMACOLOGY

The RGD-containing domain of exogenous HIV-1 Tat inhibits the engulfment of apoptotic bodies by dendritic cells. Zocchi MR, et al. **AIDS** 1997 Aug;11(10):1227-35

Transcriptional up-regulation of interleukin 4 receptors by human immunodeficiency virus type 1 tat gene. Husain SR, et al. **AIDS Res Hum Retroviruses** 1996 Sep 20; 12(14):1349-59

Effect of HIV type 1 Tat protein on butyric acid-induced differentiation in a hematopoietic progenitor cell line. Mondal D, et al. **AIDS Res Hum Retroviruses** 1996 Nov 1;12(16):1529-36

Human immunodeficiency virus-1-tat protein induces the cell surface expression of endothelial leukocyte adhesion molecule-1, vascular cell adhesion molecule-1, and intercellular adhesion molecule-1 in human endothelial cells. Dhawan S, et al. **Blood** 1997 Aug 15;90(4):1535-44

The N-terminal X-X-Pro sequence of the HIV-1 Tat protein is important for the inhibition of dipeptidyl peptidase IV (DP IV/CD26) and the suppression of mitogen-induced proliferation of human T cells. Wrenger S, et al. **FEBS Lett** 1996 Apr 1;383(3):145-9

An RGD containing peptide from HIV-1 Tat-(65-80) modulates protooncogene expression in human bronchoalveolar carcinoma cell line, A549. el-Solh A, et al. **Immunol Invest** 1997 Apr;26(3):351-70

Interleukin-10 gene expression induced by HIV-1 Tat and Rev in the cells of HIV-1 infected individuals. Blazevic V, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):208-14

Extracellular human immunodeficiency virus type-1 Tat protein activates phosphatidylinositol 3-kinase in PC12 neuronal cells. Milani D, et al. **J Biol Chem** 1996 Sep 20; 271(38):22961-4

Dual role of HIV Tat in regulation of apoptosis in T cells. McCloskey TW, et al. **J Immunol** 1997 Jan 15;158(2):1014-9

Pleiotropic effects of immobilized versus soluble recombinant HIV-1 Tat protein on CD3-mediated activation, induction of apoptosis, and HIV-1 long terminal repeat transactivation in purified CD4+ T lymphocytes. Zauli G, et al. **J Immunol** 1996 Sep 1;157(5):2216-24

Inhibition of transcription by the TAR RNA of HIV-1 in a nuclear extract of HeLa cells. Yamamoto R, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3445-50

Recombinant human immunodeficiency virus type 1 (HIV-1) Tat protein inhibits phagolysosomal fusion in human peripheral blood monocytes. Pittis MG, et al. **Viral Immunol** 1996;9(3):169-74

PHYSIOLOGY

Promotion of tumour metastases and induction of angiogenesis by native HIV-1 Tat protein from BK virus/tat transgenic mice. Corallini A, et al. **AIDS** 1996 Jun;10(7):701-10

Experimental gene therapy: the transfer of Tat-inducible interferon genes protects human cells against HIV-1 challenge in vitro and in vivo in severe combined immunodeficient mice. Sanhadji K, et al. **AIDS** 1997 Jul; 11(8):977-86

TAR- and Tat-independent replication of human immunodeficiency virus type 1 in human hepatoma cells. Zhu M, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10; 12(12):1093-101

Human immunodeficiency virus type 1 TAT protein activates B lymphocytes. Huang L, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):461-4

The octamer-binding proteins Oct-1 and Oct-2 repress the HIV long terminal repeat promoter and its transactivation by Tat. Liu YZ, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):155-8

Tat-human immunodeficiency virus-1 induces human monocyte chemotaxis by activation of vascular endothelial growth factor receptor-1. Mitola S, et al. **Blood** 1997 Aug 15;90(4):1365-72

CD26 mediates the action of HIV-1 Tat protein on DNA synthesis and cytokine production in U937 cells. Reinhold D, et al. **Immunobiology** 1996 Jan;195(1):119-28

Human immunodeficiency virus type 1 Tat protein induces death by apoptosis in primary human neuron cultures. New DR, et al. **J Neurovirol** 1997 Apr;3(2):168-73

Activation of HHV-8 by HIV-1 tat [letter] Harrington W Jr, et al. **Lancet** 1997 Mar 15;349(9054):774-5

A small circular TAR RNA decoy specifically inhibits Tat-activated HIV-1 transcription. Bohjanen PR, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3733-8

Tat protein induces self-perpetuating permissivity for productive HIV-1 infection. Li CJ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8116-20

Immune hyperactivation of HIV-1-infected T cells mediated by Tat and the CD28 pathway. Ott M, et al. **Science** 1997 Mar. 7;275(5305):1481-5

Inhibition of HIV-1 transcription and virus replication using soluble Tat peptide analogs. Kashanchi F, et al. **Virology** 1997 Jan 20;227(2):431-8

Repression of tumor necrosis factor-beta expression by the human immunodeficiency virus type-1 tat protein in central

nervous system-derived glial cells. Yang L, et al. **Virus Res** 1997 Aug;50(2):195–203

GENE PRODUCTS, TAX

[The human T-cell leukemia virus type I (HTLV-I) tax protein induces apoptosis] Yamada T. **Nippon Rinsho** 1996 Jul;54(7):1855–9 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Interaction of HTLV-1 Tax with cellular factors] Suzuki T, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1249–57 (39 ref.) **(Jpn)**

ADVERSE EFFECTS

HTLV-I arthropathy and Sjögren syndrome. Nishioka K. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S57–62 (34 ref.)

ANALYSIS

The human T-cell leukemia virus type 1 transactivator protein Tax colocalizes in unique nuclear structures with NF-kappaB proteins. Bex F, et al. **J Virol** 1997 May; 71(5):3484–97

Clonal analysis suggests provirus expression in a subpopulation of human malignant trophoblast cells harbouring the human T cell lymphotropic virus type-I genome. Liu X, et al. **Res Virol** 1996 Jan-Feb;147(1):45–51

ANTAGONISTS & INHIBITORS

Specific repression of Tax trans-activation by TAR RNA-binding protein TRBP. Donzeau M, et al. **J Virol** 1997 Apr;71(4):2628–35

BIOSYNTHESIS

Cytokine expression and tumorigenicity of large granular lymphocytic leukemia cells from mice transgenic for the tax gene of human T-cell leukemia virus type I. Grossman WJ, et al. **Blood** 1997 Jul 15;90(2):783–94

Inflammatory polyarthropathy and bone remodeling in HTLV-I Tax-transgenic mice. Saggioro D, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Mar 1;14(3):272–80

Identification of an osteoclast transcription factor that binds to the human T cell leukemia virus type I-long terminal repeat enhancer element. Inoue D, et al. **J Biol Chem** 1997 Oct 3;272(40):25386–93

Enhanced E-cadherin expression and increased calcium-dependent cell-cell adhesion in human T-cell leukemia virus type I Tax-expressing PC12 cells. Kitajima I, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):609–17

Woodchuck hepatitis virus X protein is present in chronically infected woodchuck liver and woodchuck hepatocellular carcinomas which are permissive for viral replication. Dandri M, et al. **J Virol** 1996 Aug;70(8):5246–54

Expression status of Tax protein in human T-cell leukemia virus type 1-transformed MT4 cells: recall of MT4 cells distributed by the NIH AIDS Research and Reference Reagent Program. Jeang KT, et al. **J Virol** 1997 Sep; 71(9):6277–8

Expression of cell cycle-regulatory genes in HTLV-I-transformed T-cells and Tax1-immortalized T-cells. Akagi T, et al. **Leukemia** 1997 Apr;11 Suppl 3:25

Inhibition of syncytium formation by antisense oligonucleotide phosphorothioates complementary to tax mRNA of human T-cell leukemia virus type 1 (HTLV-1). Maeda N, et al. **Leukemia** 1997 Apr;11 Suppl 3:42–4

CHEMISTRY

Structure of the complex between human T-cell receptor, viral peptide and HLA-A2 [comment] Garboczi DN, et al. **Nature** 1996 Nov 14;384(6605):134–41. Comment on: Nature 1996 Nov 14;384(6605):109–10.

Not just another Fab: the crystal structure of a TcR-MHC-peptide complex. Jardetzky T. **Structure** 1997 Feb 15;5(2):159–63 (17 ref.)

GENETICS

Correlation of activity with stability of chemically modified ribozymes in nuclei suspension. Heidenreich O, et al. **Antisense Nucleic Acid Drug Dev** 1996 Summer;6(2):111–8

Tax of the human T-lymphotropic virus type I transactivates promoter of the MDR-1 gene. Chuang SE, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):482–6

Transgenic mouse models for HTLV-I infection. Grossman WJ, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S162–9 (99 ref.)

Immune reactivity of HTLV-IIa-infected Kayapo Indians with HTLV-IIb extended Tax epitope [letter] Lal RB, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Apr 15;14(5):476–7

Increased expression of interleukin-2 receptor alpha on peripheral blood mononuclear cells in HTLV-I tax/rex mRNA-positive asymptomatic carriers. Okayama A, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 May 1;15(1):70–5

HTLV-I transgenic models: an overview. Ozden S, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S154–61 (49 ref.)

Interaction of human T-cell lymphotropic virus type I Tax, Ets1, and Sp1 in transactivation of the PTHrP P2 promoter. Dittmer J, et al. **J Biol Chem** 1997 Feb 21;272(8):4953–8

Transrepression of lck gene expression by human T-cell leukemia virus type 1-encoded p40tax. Lemasson I, et al. **J Virol** 1997 Mar;71(3):1975–83

Human T-cell leukemia virus type 1 Tax transactivates the human proliferating cell nuclear antigen promoter. Ressler S, et al. **J Virol** 1997 Feb;71(2):1181–90

Anchoring of CREB binding protein to the human T-cell leukemia virus type 1 promoter: a molecular mechanism of Tax transactivation. Giebler HA, et al. **Mol Cell Biol** 1997 Sep;17(9):5156–64

Human TAF(II)28 interacts with the human T cell leukemia virus type I Tax transactivator and promotes its transcriptional activity. Caron C, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3662–7

The tax gene sequences form two divergent monophyletic lineages corresponding to types I and II of simian and human T-cell leukemia/lymphotropic viruses. Giri A, et al. **Virology** 1997 Apr 28;231(1):96–104

IMMUNOLOGY

Demonstration of antibodies to human T-cell lymphotropic virus-I tax in patients with the cutaneous T-cell lymphoma, mycosis fungoides, who are seronegative for antibodies to the structural proteins of the virus. Pancake BA, et al. **Blood** 1996 Oct 15;88(8):3004–9

Antibody reactivities to tumor-suppressor protein p53 and HTLV-I Tof, Rex and Tax in HTLV-I-infected people with differing clinical status. Chen YM, et al. **Int J Cancer** 1997 Apr 10;71(2):196–202

Among all human T-cell leukemia virus type 1 proteins, tax, polymerase, and envelope proteins are predicted as preferential targets for the HLA-A2-restricted cytotoxic T-cell response. Pique C, et al. **J Virol** 1996 Aug; 70(8):4919–26

Identification of HTLV-1-specific CTL directed against synthetic and naturally processed peptides in HLA-B*3501 transgenic mice. Schönbach C, et al. **Virology** 1996 Dec 1;226(1):102–12

[Higher expression levels of alternatively spliced pX mRNA in human T lymphotropic virus type I (HTLV-I) asymptomatic carriers positive for antibodies to p40tax protein] Hirata M. **Fukuoka Igaku Zasshi** 1996 Jan; 87(1):23–34 (Eng. Abstr.) **(Jpn)**

METABOLISM

A hammerhead ribozyme cleaves its target RNA during RNA preparation. Heidenreich O, et al. **Antisense Nucleic Acid Drug Dev** 1996 Summer;6(2):141–4

Human T-cell leukemia virus-1 encoded Tax protein transactivates alpha 1—>3 fucosyltransferase Fuc-T VII, which synthesizes sialyl Lewis X, a selectin ligand expressed on adult T-cell leukemia cells. Hiraiwa N, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):183–6

Transactivation of an inducible anti-oxidative stress protein, human thioredoxin by HTLV-I Tax. Masutani H, et al. **Immunol Lett** 1996 Dec;54(2-3):67–71

Constitutive dephosphorylation and activation of a member of the nuclear factor of activated T cells, NF-AT1, in Tax-expressing and type I human T-cell leukemia virus-infected human T cells. Good L, et al. **J Biol Chem** 1997 Jan 17;272(3):1425–8

Differential activation of viral and cellular promoters by human T-cell lymphotropic virus-1 tax and cAMP-responsive element modulator isoforms. Laurance ME, et al. **J Biol Chem** 1997 Jan 31;272(5):2646–51

Augmentation of human T cell leukaemia virus type I Tax transactivation by octamer binding sites. Marriott SJ, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2259–67

HTLV-1 21 bp repeat sequences facilitate stable association between Tax and CREB to increase CREB binding affinity. Yin MJ, et al. **J Mol Biol** 1996 Nov 22;264(1):20–31

Imbalanced expression of glutamate-glutamine cycle enzymes induced by human T-cell lymphotropic virus type 1 Tax protein in cultivated astrocytes. Akaoka H, et al. **J Virol** 1996 Dec;70(12):8727–36

Function of the human T-cell leukemia virus type 1 21-base-pair repeats in basal transcription. Barnhart MK, et al. **J Virol** 1997 Jan;71(1):337–44

Human T-cell leukemia virus type 1 Tax releases cell cycle arrest induced by p16INK4a. Low KG, et al. **J Virol** 1997 Mar;71(3):1956–62

The oncoprotein Tax of the human T-cell leukemia virus type 1 activates transcription via interaction with cellular ATF-1/CREB factors in Saccharomyces cerevisiae. Shnyreva M, et al. **J Virol** 1996 Nov;70(11):7478–84

Differential transactivation of the intercellular adhesion molecule 1 gene promoter by Tax1 and Tax2 of human T-cell leukemia viruses. Tanaka Y, et al. **J Virol** 1996 Dec; 70(12):8508–17

Interaction of the human T-lymphotropic virus type 1 Tax dimer with CREB and the viral 21-base-pair repeat. Tie F, et al. **J Virol** 1996 Dec;70(12):8368–74

Transcriptional activation and self-association in yeast: protein-protein dimerization as a pleiotropic mechanism of HTLV-I Tax function. Jin DY, et al. **Leukemia** 1997 Apr;11 Suppl 3:3–6

HTLV-I Tax trans-activation and cell growth signaling. Nakamura M, et al. **Leukemia** 1997 Apr;11 Suppl 3:7–9

HTLV-1 Tax protein interacts with cyclin-dependent kinase inhibitor p16Ink4a and counteracts its inhibitory activity to CDK4. Suzuki T, et al. **Leukemia** 1997 Apr;11 Suppl 3:14–6

Sp family members preferentially interact with the promoter proximal repeat within the HTLV-I enhancer. Wessner R, et al. **Leukemia** 1997 Apr;11 Suppl 3:10–3

Physical and functional interaction between the human T-cell lymphotropic virus type 1 Tax1 protein and the CCAAT binding protein NF-Y. Pise-Masison CA, et al. **Mol Cell Biol** 1997 Mar;17(3):1236–43

Triple synergism of human T-lymphotropic virus type 1-encoded tax, GATA-binding protein, and AP-1 is required for constitutive expression of the interleukin-5 gene in adult T-cell leukemia cells. Yamagata T, et al. **Mol Cell Biol** 1997 Aug;17(8):4272–81

HTLV-I Tax self-association in optimal trans-activation function. Jin DY, et al. **Nucleic Acids Res** 1997 Jan 15; 25(2):379–87

ICE-proteases mediate HTLV-I Tax-induced apoptotic T-cell death. Chlichlia K, et al. **Oncogene** 1997 May 15; 14(19):2265–72

Functional interaction of the HTLV-1 transactivator Tax with activating transcription factor-4 (ATF4). Reddy TR, et al. **Oncogene** 1997 Jun 12;14(23):2785–92

Activation of Bcl-2 expression in human endothelial cells chronically expressing the human T-cell lymphotropic virus type I. Nicot C, et al. **Virology** 1997 Sep 15; 236(1):47–53

Human T cell leukemia virus type 1 tax protein increases NF-kappa B dimer formation and antagonizes the inhibitory activity of the I kappa B alpha regulatory protein. Petropoulos L, et al. **Virology** 1996 Nov 1; 225(1):52–64

PHARMACOLOGY

Induction of apoptosis in murine clonal osteoblasts expressed by human T-cell leukemia virus type I tax by NF-kappa B and TNF-alpha. Kitajima I, et al. **J Bone Miner Res** 1996 Feb;11(2):200–10

PHYSIOLOGY

Aberrant expression and function of p53 in T-cells immortalized by HTLV-I Tax1. Akagi T, et al. **FEBS Lett** 1997 Apr 14;406(3):263–6

Interaction of HTLV-I Tax with the human proteasome: implications for NF-kappa B induction. Béraud C, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S76–84 (88 ref.)

Transgenic mouse models for HTLV-I infection. Grossman WJ, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S162–9 (99 ref.)

Molecular biology of HTLV-I: recent progress. Yoshida M. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S63–8 (45 ref.)

Transactivation of proenkephalin gene by HTLV-1 tax1 protein in glial cells: involvement of Fos/Jun complex at an AP-1 element in the proenkephalin gene promoter. Fu W, et al. **J Neurovirol** 1997 Feb;3(1):16–27

Induction of tumor necrosis factor alpha in human neuronal cells by extracellular human T-cell lymphotropic virus type I Tax. Cowan EP, et al. **J Virol** 1997 Sep;71(9):6982–9

Human T-cell leukemia virus type 1 Tax protein transforms rat fibroblasts via two distinct pathways. Matsumoto K, et al. **J Virol** 1997 Jun;71(6):4445–51

Howard Temin memorial lectureship. Molecular biology of HTLV-1: deregulation of host cell gene expression and cell cycle. Yoshida M. **Leukemia** 1997 Jan;11(1):14–5 (10 ref.)

Characterization of peripheral blood T-lymphocytes transduced with HTLV-I Tax mutants with different trans-activating phenotypes. Akagi T, et al. **Oncogene** 1997 May 1;14(17):2071–8

Repression of bax gene expression by the HTLV-1 Tax protein: implications for suppression of apoptosis in virally infected cells. Brauweiler A, et al. **Virology** 1997 Apr 28; 231(1):135–40

ULTRASTRUCTURE

Assembly, specific binding, and crystallization of a human TCR-alphabeta with an antigenic Tax peptide from human T lymphotropic virus type 1 and the class I MHC molecule HLA-A2. Garboczi DN, et al. **J Immunol** 1996 Dec 15; 157(12):5403–10

GENE PRODUCTS, VIF

BIOSYNTHESIS

vif-negative human immunodeficiency virus type 1 persistently replicates in primary macrophages, producing attenuated progeny virus. Chowdhury IH, et al. **J Virol** 1996 Aug;70(8):5336–45

GENETICS

Diversity of the vif gene of human immunodeficiency virus type 1 in Uganda. Wieland U, et al. **J Gen Virol** 1997 Feb; 78 (Pt 2):393–400

Genetic characterization of vif, vpr, and vpu sequences from long-term survivors of human immunodeficiency virus type 1 infection. Zhang L, et al. **Virology** 1997 Feb 17;

GENE PRODUCTS, VIF

228(2):340–9

IMMUNOLOGY

Prevalence of anti-vif antibodies in HIV-1 infected individuals assessed using recombinant baculovirus expressed vif protein. O'Neil C, et al. **J Med Virol** 1997 Mar;51(3):139–44

METABOLISM

Analysis of vif-defective human immunodeficiency virus type 1 (HIV-1) virions synthesized in 'non-permissive' T lymphoid cells stably infected with selectable HIV-1. Ochsenbauer C, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):627–35

Phenotypically Vif- human immunodeficiency virus type 1 is produced by chronically infected restrictive cells. Bouyac M, et al. **J Virol** 1997 Mar;71(3):2473–7

Human immunodeficiency virus type 1 Vif does not influence expression or virion incorporation of gag-, pol-, and env-encoded proteins. Fouchier RA, et al. **J Virol** 1996 Dec;70(12):8263–9

Role of Vif in human immunodeficiency virus type 1 reverse transcription. Goncalves J, et al. **J Virol** 1996 Dec; 70(12):8701–9

The Vif and Gag proteins of human immunodeficiency virus type 1 colocalize in infected human T cells. Simon JH, et al. **J Virol** 1997 Jul;71(7):5259–67

PHARMACOLOGY

Human immunodeficiency virus type 1 (HIV-1) protein Vif inhibits the activity of HIV-1 protease in bacteria and in vitro. Kotler M, et al. **J Virol** 1997 Aug;71(8):5774–81

GENE PRODUCTS, VIRAL see **VIRAL PROTEINS**

GENE PRODUCTS, VPR

CHEMISTRY

Characterization of a leucine-zipper-like domain in Vpr protein of human immunodeficiency virus type 1. Wang L, et al. **Gene** 1996 Oct 31;178(1–2):7–13

GENETICS

Length polymorphism of the viral protein R of human immunodeficiency virus type 1 strains. Ge YC, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):351–4

The human immunodeficiency virus type 1 Vpr transactivator: cooperation with promoter-bound activator domains and binding to TFIIB. Agostini I, et al. **J Mol Biol** 1996 Sep 6;261(5):599–606

Genetic characterization of vif, vpr, and vpu sequences from long-term survivors of human immunodeficiency virus type 1 infection. Zhang L, et al. **Virology** 1997 Feb 17; 228(2):340–9

IMMUNOLOGY

Protection of monkeys vaccinated with vpr- and/or nef-defective simian immunodeficiency virus strain mac/human immunodeficiency virus type 1 chimeric viruses: a potential candidate live-attenuated human AIDS vaccine. Igarashi T, et al. **J Gen Virol** 1997 May;78 (Pt 5):985–9

METABOLISM

Nuclear import and cell cycle arrest functions of the HIV-1 Vpr protein are encoded by two separate genes in HIV-2/SIV(SM). Fletcher TM 3rd, et al. **EMBO J** 1996 Nov 15;15(22):6155–65

Direct activation of protein phosphatase-2A0 by HIV-1 encoded protein complex NCp7:vpr. Tung HY, et al. **FEBS Lett** 1997 Jan 20;401(2-3):197–201

HIV-1 viral protein R (Vpr) regulates viral replication and cellular proliferation in T cells and monocytoid cells in vitro. Ayyavoo V, et al. **J Leukoc Biol** 1997 Jul;62(1):93–9 (42 ref.)

The human immunodeficiency virus type 1 Vpr transactivator: cooperation with promoter-bound activator domains and binding to TFIIB. Agostini I, et al. **J Mol Biol** 1996 Sep 6;261(5):599–606

Vpr of simian immunodeficiency virus of African green monkeys is required for replication in macaque macrophages and lymphocytes. Campbell BJ, et al. **J Virol** 1997 Jul;71(7):5593–602

Uracil DNA glycosylase specifically interacts with Vpr of both human immunodeficiency virus type 1 and simian immunodeficiency virus of sooty mangabeys, but binding does not correlate with cell cycle arrest. Selig L, et al. **J Virol** 1997 Jun;71(6):4842–6

Human immunodeficiency virus type 1 Vpr induces apoptosis following cell cycle arrest. Stewart SA, et al. **J Virol** 1997 Jul;71(7):5579–92

Cell cycle inhibitory effects of HIV and SIV Vpr and Vpx in the yeast Schizosaccharomyces pombe. Zhang C, et al. **Virology** 1997 Mar 31;230(1):103–12

PHARMACOLOGY

Human immunodeficiency virus type 1 Vpr gene product prevents cell proliferation on mouse NIH3T3 cells without the G2 arrest of the cell cycle. Nishino Y, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):550–4

Development of a novel anti-HIV-1 agent from within: effect of chimeric Vpr-containing protease cleavage site residues on virus replication. Serio D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3346–51

PHYSIOLOGY

HIV-1, Vpr and the cell cycle. Emerman M. **Curr Biol** 1996 Sep 1;6(9):1096–103 (84 ref.)

In vitro and in vivo tumor growth suppression by HIV-1 Vpr. Mahalingam S, et al. **DNA Cell Biol** 1997 Feb; 16(2):137–43

HIV-1 protein Vpr causes gross mitochondrial dysfunction in the yeast Saccharomyces cerevisiae. Macreadie IG, et al. **FEBS Lett** 1997 Jun 30;410(2-3):145–9

Nuclear import, virion incorporation, and cell cycle arrest/differentiation are mediated by distinct functional domains of human immunodeficiency virus type 1 Vpr. Mahalingam S, et al. **J Virol** 1997 Sep;71(9):6339–47

Conservation and host specificity of Vpr-mediated cell cycle arrest suggest a fundamental role in primate lentivirus evolution and biology. Stivahtis GL, et al. **J Virol** 1997 Jun;71(6):4331–8

Small heat shock protein suppression of Vpr-induced cytoskeletal defects in budding yeast. Gu J, et al. **Mol Cell Biol** 1997 Jul;17(7):4033–42

Inhibition of prokaryotic cell growth by HIV1 Vpr. Bodéus M, et al. **Res Virol** 1997 May-Jun;148(3):207–13

Do Vpu and Vpr of human immunodeficiency virus type 1 and NB of influenza B virus have ion channel activities in the viral life cycles? Lamb RA, et al. **Virology** 1997 Mar 3;229(1):1–11 (127 ref.)

GENE PRODUCTS, VPU

The Vpu protein of human immunodeficiency virus type 1 forms cation-selective ion channels. Ewart GD, et al. **J Virol** 1996 Oct;70(10):7108–15

CHEMISTRY

Secondary structure and tertiary fold of the human immunodeficiency virus protein U (Vpu) cytoplasmic domain in solution. Willbold D, et al. **Eur J Biochem** 1997 May 1;245(3):581–8

Ion channels formed by HIV-1 Vpu: a modelling and simulation study. Grice AL, et al. **FEBS Lett** 1997 Apr 1;405(3):299–304

Solution structure of the cytoplasmic domain of the human immunodeficiency virus type 1 encoded virus protein U (Vpu). Federau T, et al. **Int J Pept Protein Res** 1996 Apr; 47(4):297–310

Putative alpha-helical structures in the human immunodeficiency virus type 1 Vpu protein and CD4 are involved in binding and degradation of the CD4 molecule. Tiganos E, et al. **J Virol** 1997 Jun;71(6):4452–60

GENETICS

Interaction between the cytoplasmic domains of HIV-1 Vpu and CD4: role of Vpu residues involved in CD4 interaction and in vitro CD4 degradation. Margottin F, et al. **Virology** 1996 Sep 15;223(2):381–6

Genetic characterization of vif, vpr, and vpu sequences from long-term survivors of human immunodeficiency virus type 1 infection. Zhang L, et al. **Virology** 1997 Feb 17; 228(2):340–9

IMMUNOLOGY

The human immunodeficiency virus type 1 (HIV-1) Vpu protein interferes with an early step in the biosynthesis of major histocompatibility complex (MHC) class I molecules. Kerkau T, et al. **J Exp Med** 1997 Apr 7;185(7):1295–305

METABOLISM

Identification of an ion channel activity of the Vpu transmembrane domain and its involvement in the regulation of virus release from HIV-1-infected cells. Schubert U, et al. **FEBS Lett** 1996 Nov 25;398(1):12–8

Rapid degradation of CD4 in cells expressing human immunodeficiency virus type 1 Env and Vpu is blocked by proteasome inhibitors. Fujita K, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):619–25

Bimodal down-regulation of CD4 in cells expressing human immunodeficiency virus type 1 Vpu and Env. Fujita K, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2393–401

The human immunodeficiency virus (HIV) type 2 envelope protein is a functional complement to HIV type 1 Vpu that enhances particle release of heterologous retroviruses. Bour S, et al. **J Virol** 1996 Dec;70(12):8285–300

Interaction between the cytoplasmic domains of HIV-1 Vpu and CD4: role of Vpu residues involved in CD4 interaction and in vitro CD4 degradation. Margottin F, et al. **Virology** 1996 Sep 15;223(2):381–6

Phosphorylation of both phosphoacceptor sites in the HIV-1 Vpu cytoplasmic domain is essential for Vpu-mediated ER degradation of CD4. Paul M, et al. **Virology** 1997 May 26;232(1):207–16

HIV-1 particle release mediated by Vpu is distinct from that mediated by p6. Schwartz MD, et al. **Virology** 1996 Oct 1;224(1):302–9

PHYSIOLOGY

Human immunodeficiency virus type 1 Vpu modifies viral cytopathic effect through augmented virus release. Iwatani Y, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):841–6

Do Vpu and Vpr of human immunodeficiency virus type 1 and NB of influenza B virus have ion channel activities in the viral life cycles? Lamb RA, et al. **Virology** 1997 Mar 3;229(1):1–11 (127 ref.)

GENE PROTEINS see **PROTEINS**

GENE REARRANGEMENT

see related
ANTIBODY DIVERSITY
GENES, IMMUNOGLOBULIN
IMMUNOGLOBULIN VARIABLE REGION

Assessment of clonality in cutaneous lymphoid infiltrates by polymerase chain reaction analysis of immunoglobulin heavy chain gene rearrangement. Ritter JH, et al. **Am J Clin Pathol** 1997 Jul;108(1):60–8

Detection of T-cell receptor delta gene rearrangement in T-cell malignancies by clonal specific polymerase chain reaction and its application to detect minimal residual disease. Chan DW, et al. **Am J Hematol** 1996 Jul; 52(3):171–7

De novo acute nonlymphoblastic leukemia (M5b) having a chromosomal 3;21 translocation with immunoglobin heavy-chain gene rearrangement [letter] Kaya H, et al. **Am J Hematol** 1996 Oct;53(2):142–3

Inter- and intrachromosomal rearrangements are both involved in the origin of 15q11-q13 deletions in Prader-Willi syndrome [letter] Carrozzo R, et al. **Am J Hum Genet** 1997 Jul;61(1):228–31

A recombination hot spot in the Rh genes revealed by analysis of unrelated donors with the rare D— phenotype [published erratum appears in Am J Hum Genet 1997 Mar;60(3):749] Kemp TJ, et al. **Am J Hum Genet** 1996 Nov;59(5):1066–73

Characterization of the recombination hot spot involved in the genomic rearrangement leading to the hybrid D-CE-D gene in the D(VI) phenotype. Matassi G, et al. **Am J Hum Genet** 1997 Apr;60(4):808–17

Mucopolysaccharidosis type II (Hunter syndrome): mutation "hot spots" in the iduronate-2-sulfatase gene. Rathmann M, et al. **Am J Hum Genet** 1996 Dec;59(6):1202–9

A complex five breakpoint intrachromosomal rearrangement ascertained through two recombinant offspring. Tuck-Muller CM, et al. **Am J Med Genet** 1996 May 17; 63(2):392–5

Poor correlation between clonal immunoglobulin gene rearrangement and immunoglobulin gene transcription in Hodgkin's disease. Yatabe Y, et al. **Am J Pathol** 1996 Oct; 149(4):1351–61

2-chlorodeoxyadenosine (2-CDA) therapy in previously untreated patients with follicular stage III-IV non-Hodgkin's lymphoma [see comments] Betticher DC, et al. **Ann Oncol** 1996 Oct;7(8):793–9. Comment in: Ann Oncol 1996 Oct;7(8):767.

Involvement of the CCND1 gene in hairy cell leukemia. de Boer CJ, et al. **Ann Oncol** 1996 Mar;7(3):251–6

Ig rearrangements in isolated Reed-Sternberg cells: conclusions from four different studies. Hummel M, et al. **Ann Oncol** 1996;7 Suppl 4:31–3 (13 ref.)

Trans-rearrangements and the risk of lymphoid malignancy. Kirsch IR. **Ann Oncol** 1997;8 Suppl 2:45–8 (37 ref.)

Clinical significance of bcl-2 (MBR)/JH rearrangement in the peripheral blood of patients with diffuse large B-cell lymphomas [see comments] Zucca E, et al. **Ann Oncol** 1996 Dec;7(10):1023–7. Comment in: Ann Oncol 1996 Dec;7(10):993–6.

Genome rearrangements of rotaviruses. Desselberger U. **Arch Virol Suppl** 1996;12:37–51 (50 ref.)

The inv(11)(p15q22) chromosome translocation of de novo and therapy-related myeloid malignancies results in fusion of the nucleoporin gene, NUP98, with the putative RNA helicase gene, DDX10. Arai Y, et al. **Blood** 1997 Jun 1; 89(11):3936–44

Ig D(H) gene segment transcription and rearrangement before surface expression of the pan-B-cell marker CD19 in normal human bone marrow. Bertrand FE 3rd, et al. **Blood** 1997 Jul 15;90(2):736–44

MLL gene rearrangement, cytogenetic 11q23 abnormalities, and expression of the NG2 molecule in infant acute myeloid leukemia. Hilden JM, et al. **Blood** 1997 May 15; 89(10):3801–5

Blood on filter paper as a readily available source of bcr-abl rearranged mRNA [letter] Suttorp M, et al. **Blood** 1997 Aug 15;90(4):1713–5

Eradication of polymerase chain reaction detectable immunoglobulin gene rearrangement in non-Hodgkin's lymphoma is associated with decreased relapse after autologous bone marrow transplantation. Zwicky CS, et al. **Blood** 1996 Nov 1;88(9):3314–22

Analysis of the immunoglobulin heavy-chain gene rearrangement providing molecular evidence of second lymphoma in a patient in apparent relapse after autotransplantation. Campana S, et al. **Bone Marrow Transplant** 1997 Aug;20(4):341–3

BCL-6 and other genomic alterations in non-Hodgkin's lymphoma (NHL). Butler M, et al. **Br J Cancer** 1997; 75(11):1641–5

Detection of bcl-2 rearrangement in HIV-related follicular lymphoid hyperplasia. Molina TJ, et al. **Br J Haematol** 1996 Sep;94(4):705-8

bcr gene rearrangement analysis in myeloproliferative disorders other than chronic myelogenous leukemia. Crisan D, et al. **Cancer Detect Prev** 1996;20(4):263-9

NotI jumping and linking clones as a tool for genome mapping and analysis of chromosome rearrangements in different tumors. Zabarovsky ER, et al. **Cancer Detect Prev** 1996;20(1):1-10 (19 ref.)

Some observations on fluorescence in situ hybridization evaluation of chronic myelocytic leukemia. Chen Z, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):1-3

Deletion of exon b3 of the BCR gene in CML: easy breakpoint mapping by a two-round PCR. Cigudosa JC, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):71-3

MLL self fusion mediated by Alu repeat homologous recombination and prognosis of AML-M4/M5 subtypes. So CW, et al. **Cancer Res** 1997 Jan 1;57(1):117-22

Misexpression of disrupted HMGI architectural factors activates alternative pathways of tumorigenesis. Tkachenko A, et al. **Cancer Res** 1997 Jun 1;57(11):2276-80

Application of rearrangements of T cell receptor gene in the diagnosis of mediastinal T-lymphoblastic lymphoma: a case report. Change KE, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Feb;59(2):132-5

The highly rearranged chloroplast genome of Trachelium caeruleum (Campanulaceae): multiple inversions, inverted repeat expansion and contraction, transposition, insertions/deletions, and several repeat families. Cosner ME, et al. **Curr Genet** 1997 May;31(5):419-29

Rearrangements at a DNA-fingerprint locus in the rice blast fungus. Shull V, et al. **Curr Genet** 1996 Aug;30(3):263-71

Long-range genomic rearrangements upstream of Kit dysregulate the developmental pattern of Kit expression in W57 and Wbanded mice and interfere with distinct steps in melanocyte development. Klüppel M, et al. **Development** 1997 Jan;124(1):65-77

Detection of the NPM-ALK genomic rearrangement of Ki-1 lymphoma and isolation of the involved NPM and ALK introns. Ladanyi M, et al. **Diagn Mol Pathol** 1996 Sep; 5(3):154-8

Response to radiotherapy of human uterine cervix carcinoma is not correlated with rearrangements of the Ha-ras-1 and/or c-myc genes. Polischouk AG, et al. **Eur J Cancer** 1997 May;33(6):942-9

Genome plasticity in Neisseria gonorrhoeae. Gibbs CP, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):173-9

The rfaD locus: a region of rearrangement in Vibrio cholerae O139. Vimont S, et al. **Gene** 1997 Jan 31;185(1):43-7

Hamartoma of the breast with involvement of 6p21 and rearrangement of HMGIY. Dal Cin P, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):90-2

Chromosome 1 rearrangements involving the genes TPR and NTRK1 produce structurally different thyroid-specific TRK oncogenes. Greco A, et al. **Genes Chromosomes Cancer** 1997 Jun;19(2):112-23

Primary vs. secondary neoplasia-associated chromosomal abnormalities--balanced rearrangements vs. genomic imbalances? Johansson B, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):155-63

Distribution of TP53 mutations among acute leukemias with MLL rearrangements. Lanza C, et al. **Genes Chromosomes Cancer** 1996 Jan;15(1):48-53

Alu-polymerase chain reaction genomic fingerprinting technique identifies multiple genetic loci associated with pancreatic tumourigenesis. McKie AB, et al. **Genes Chromosomes Cancer** 1997 Jan;18(1):30-41

Engineering the Drosophila genome: chromosome rearrangements by design. Golic KG, et al. **Genetics** 1996 Dec;144(4):1693-711

Competition between different variegating rearrangements for limited heterochromatic factors in Drosophila melanogaster. Lloyd VK, et al. **Genetics** 1997 Apr; 145(4):945-59

Rearrangements involving repeated sequences within a P element preferentially occur between units close to the transposon extremities. Pâques F, et al. **Genetics** 1996 Feb; 142(2):459-70

Chromosomal rearrangements in rock wallabies, Petrogale (Marsupialia: Macropodidae). IX. Further G-banding studies of the Petrogale lateralis complex: P. lateralis pearsoni, the west Kimberley race, and a population heterozygous for a centric fusion. Eldridge MD, et al. **Genome** 1997 Feb;40(1):84-90

Structure, sequence, and chromosome 19 localization of human USF2 and its rearrangement in a patient with multicystic renal dysplasia. Groenen PM, et al. **Genomics** 1996 Dec 1;38(2):141-8

Overall informativity, OI, in DNA polymorphisms revealed by inter-Alu PCR: detection of genomic rearrangements. Jarnik M, et al. **Genomics** 1996 Sep 15;36(3):388-98

The gamma-globin gene rearrangements in newborns from the Republic of Macedonia. Efremov GD, et al. **Hemoglobin** 1996 Nov;20(4):401-14

Evidence for subtelomeric exchange of 3.3 kb tandemly repeated units between chromosomes 4q35 and 10q26: implications for genetic counselling and etiology of FSHD1. van Deutekom JC, et al. **Hum Mol Genet** 1996 Dec;5(12):1997-2003

Is clonality equivalent to malignancy: specifically, is immunoglobulin gene rearrangement diagnostic of malignant lymphoma? [editorial; comment] Collins RD. **Hum Pathol** 1997 Jul;28(7):757-9. Comment on: Hum Pathol 1997 Jul;28(7):850-61.

V(D)J recombination in Ku86-deficient mice: distinct effects on coding, signal, and hybrid joint formation. Bogue MA, et al. **Immunity** 1997 Jul;7(1):37-47

Structure and diversity of the heavy chain VDJ junctions in the developing Mexican axolotl. Golub R, et al. **Immunogenetics** 1997;46(5):402-9

A new non-random chromosomal translocation t(3;6)(q27;p21.3) associated with BCL6 rearrangement in two patients with non-Hodgkin's lymphoma. Miura I, et al. **Int J Hematol** 1996 Oct;64(3-4):249-56

Rearrangements in the genomes of Vibrio cholerae strains belonging to different serovars and biovars. Nandi S, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):858-62

Phenotypic switching of variable surface lipoproteins in Mycoplasma bovis involves high-frequency chromosomal rearrangements. Lysnyansky I, et al. **J Bacteriol** 1996 Sep; 178(18):5395-401

ret/PTC-1, -2, and -3 oncogene rearrangements in human thyroid carcinomas: implications for metastatic potential? [letter; comment] Mayr B, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1306-7. Comment on: J Clin Endocrinol Metab 1996 Sep;81(9):3360-5.

Gene recombination in postmitotic cells. Targeted expression of Cre recombinase provokes cardiac-restricted, site-specific rearrangement in adult ventricular muscle in vivo. Agah R, et al. **J Clin Invest** 1997 Jul 1;100(1):169-79

Gene rearrangement: a novel mechanism for MDR-1 gene activation. Mickley LA, et al. **J Clin Invest** 1997 Apr 15; 99(8):1947-57

Value of molecular monitoring during the treatment of chronic myeloid leukemia: a Cancer and Leukemia Group B study. Stock W, et al. **J Clin Oncol** 1997 Jan;15(1):26-36

Epigenetic regulation of programmed genomic rearrangements in Paramecium aurelia. Meyer E, et al. **J Eukaryot Microbiol** 1996 Nov-Dec;43(6):453-61 (28 ref.)

Ordering of human bone marrow B lymphocyte precursors by single-cell polymerase chain reaction analyses of the rearrangement status of the immunoglobulin H and L chain gene loci. Ghia P, et al. **J Exp Med** 1996 Dec 1; 184(6):2217-29

JC virus regulatory region rearrangements and genotypes in progressive multifocal leukoencephalopathy: two independent aspects of virus variation. Agostini HT, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):659-64

Molecular analysis of the immunoglobulin VH gene rearrangement in a primary cutaneous immunoblastic B-cell lymphoma by micromanipulation and single-cell PCR. Gellrich S, et al. **J Invest Dermatol** 1997 Oct; 109(4):541-5

Detection of archetype and rearranged variants of JC virus in multiple tissues from a pediatric PML patient. Newman JT, et al. **J Med Virol** 1997 Jul;52(3):243-52

Chromosome End Formation and Internal Sequence Elimination as Alternative Genomic Rearrangements in the Ciliate Paramecium. Amar L. **J Mol Biol** 1997 Jan 31; 265(4):465

Identification of V(D)J recombination coding end intermediates in normal thymocytes. Lívák F, et al. **J Mol Biol** 1997 Mar 21;267(1):1-9

Large genome rearrangements discovered by the detailed analysis of 21 Pseudomonas aeruginosa clone C isolates found in environment and disease habitats. Römling U, et al. **J Mol Biol** 1997 Aug 22;271(3):386-404

Rearrangement and reactivation of the myelin basic protein locus in myelin-deficient (mld) mouse brain. Sun Y, et al. **J Neurochem** 1997 Feb;68(2):457-68

p53 mutation in B-cell lymphoid neoplasms with reference to oncogene rearrangements associated with chromosomal translocations. Akasaka T, et al. **Jpn J Cancer Res** 1996 Sep;87(9):930-7

Non-random chromosomal rearrangements and their implications in clinical features and outcome of multiple myeloma and plasma cell leukemia. Taniwaki M, et al. **Leuk Lymphoma** 1996 Mar;21(1-2):25-30 (39 ref.)

ETV6 gene rearrangements in hematopoietic malignant disorders. Wlodarska I, et al. **Leuk Lymphoma** 1996 Oct; 23(3-4):287-95 (54 ref.)

Routine fluorescence in situ hybridization analysis for detection of BCR-ABL rearrangement in myeloproliferative disorders [letter] Sabatino G, et al. **Leuk Res** 1997 Jun;21(6):581-3

Microsatellite instability in childhood T cell acute lymphoblastic leukemia. Baccichet A, et al. **Leukemia** 1997 Jun;11(6):797-802

Fre-2, a locus closely linked to Fv-2, is rearranged in some erythroleukemias induced by Friend murine leukemia virus. Eisel D, et al. **Leukemia** 1997 Apr;11 Suppl 3:155-9

Prognostic significance of immunoglobulin heavy chain gene rearrangement in patients with acute myelogenous leukemia. Kyoda K, et al. **Leukemia** 1997 Jun;11(6):803-6

The common TEL/AML1 rearrangement does not represent a frequent event in acute lymphoblastic leukaemia occuring in children with Down syndrome. Lanza C, et al. **Leukemia** 1997 Jun;11(6):820-1

Automated high resolution PCR fragment analysis for identification of clonally rearranged immunoglobulin heavy chain genes. Linke B, et al. **Leukemia** 1997 Jul; 11(7):1055-62

Lack of ETV6 (TEL) gene rearrangements or p16INK4A/p15INK4B homozygous gene deletions in infant acute lymphoblastic leukemia. Maloney KW, et al. **Leukemia** 1997 Jul;11(7):979-83

Rearrangement of the BCL6 gene in B-cell lymphoid neoplasms. Muramatsu M, et al. **Leukemia** 1997 Apr;11 Suppl 3:318-20

Determination of clonality in patients who present with diagnostic dilemmas: a laboratory experience and review of the literature. Rockman SP. **Leukemia** 1997 Jun; 11(6):852-62 (61 ref.)

Clonality analysis as a tool to study the biology and response to therapy in myelodysplastic syndromes. Schmetzer HM, et al. **Leukemia** 1997 May;11(5):660-6

Refined chromosomal localization of the human thrombopoietin gene to 3q27-q28 and exclusion as the responsible gene for thrombocytosis in patients with rearrangements of 3q21 and 3q26. Schnittger S, et al. **Leukemia** 1996 Dec;10(12):1891-6

Identification of immunoglobulin lambda isotype gene rearrangements by Southern blot analysis. Tümkaya T, et al. **Leukemia** 1996 Nov;10(11):1834-9

Rearrangements of the AML1/CBFA2 gene in myeloid leukemia with the 3;21 translocation: in vitro and in vivo studies. Zent C, et al. **Leukemia** 1997 Apr;11 Suppl 3:273-8

Increased bcl-2 protein levels in prostatic adenocarcinomas are not associated with rearrangements in the 2.8 kb major breakpoint region or with p53 protein accumulation. Kallakury BV, et al. **Mod Pathol** 1996 Jan;9(1):41-7

Gene rearrangements in snake mitochondrial genomes: highly concerted evolution of control-region-like sequences duplicated and inserted into a tRNA gene cluster. Kumazawa Y, et al. **Mol Biol Evol** 1996 Nov;13(9):1242-54

Two novel gene orders and the role of light-strand replication in rearrangement of the vertebrate mitochondrial genome. Macey JR, et al. **Mol Biol Evol** 1997 Jan;14(1):91-104

Palindrome resolution and recombination in the mammalian germ line. Akgün E, et al. **Mol Cell Biol** 1997 Sep; 17(9):5559-70

Sequence-specific epigenetic effects of the maternal somatic genome on developmental rearrangements of the zygotic genome in Paramecium primaurelia. Meyer E, et al. **Mol Cell Biol** 1997 Jul;17(7):3589-99

Artificial circularization of the chromosome with concomitant deletion of its terminal inverted repeats enhances genetic instability and genome rearrangement in Streptomyces lividans. Volff JN, et al. **Mol Gen Genet** 1997 Feb 27;253(6):753-60

Rearrangements of the high mobility group protein family genes and the molecular genetic origin of uterine leiomyomas and endometrial polyps. Hennig Y, et al. **Mol Hum Reprod** 1996 Apr;2(4):277-83

Mechanism of antigenic variation in Mycoplasma pulmonis: interwoven, site-specific DNA inversions. Bhugra B, et al. **Mol Microbiol** 1995 Nov;18(4):703-14

Cloning and sequence of a region encoding a surface polysaccharide of Vibrio cholerae O139 and characterization of the insertion site in the chromosome of Vibrio cholerae O1. Comstock LE, et al. **Mol Microbiol** 1996 Feb;19(4):815-26

Biochemical and genetic studies in a family with mitochondrial myopathy. Heiman-Patterson TD, et al. **Muscle Nerve** 1997 Oct;20(10):1219-24

Inside out, boy you turn me? [news; comment] Phimister B. **Nat Genet** 1997 May;16(1):11. Comment on: Nat Genet 1997 May;16(1):96-9.

Absence of rearrangements in the tumour susceptibility gene TSG101 in human breast cancer [letter] Steiner P, et al. **Nat Genet** 1997 Aug;16(4):332-3

Abnormal chromatin clumping in granulocytes in a case of Ph1-negative, BCR-ABL rearrangement positive, haematologically atypical chronic myeloid leukaemia (CML). Tertian G, et al. **Nouv Rev Fr Hematol** 1995; 37(4):245-7

The germline gene encoding DNA polymerase alpha in the hypotrichous ciliate Oxytricha nova is extremely scrambled. Hoffman DC, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3337-40

S1 nuclease hybrid analysis of mitochondrial DNA amplified by long-distance PCR: rapid screening for small-scale rearrangements. Lundin K, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2535-6

Multi-organ characterization of mitochondrial genomic rearrangements in ad libitum and caloric restricted mice show striking somatic mitochondrial DNA rearrangements with age. Melov S, et al. **Nucleic Acids Res** 1997 Mar 1; 25(5):974-82

DIR: a novel DNA rearrangement associated with inverted repeats. Pinder DJ, et al. **Nucleic Acids Res** 1997 Feb 1; 25(3):523-9

A new form of RET rearrangement in thyroid carcinomas of children after the Chernobyl reactor accident. Klugbauer S, et al. **Oncogene** 1996 Sep 5;13(5):1099-1102

Transcription of tal-1, a putative oncogene playing an important role in childhood T-ALL, can be shown in normal peripheral blood cells by a highly sensitive RT-PCR assay. Anderegg B, et al. **Pediatr Hematol Oncol** 1997 Jul-Aug;14(4):349-58

Hypoparathyroidism and deafness associated with pleioplasmic large scale rearrangements of the mitochondrial DNA: a clinical and molecular genetic study of four children with Kearns-Sayre syndrome. Wilichowski

E, et al. **Pediatr Res** 1997 Feb;41(2):193–200 (47 ref.)

FRAG1, a gene that potently activates fibroblast growth factor receptor by C-terminal fusion through chromosomal rearrangement. Lorenzi MV, et al.
Proc Natl Acad Sci U S A 1996 Aug 20;93(17):8956–61

A major rearrangement of the VP6 gene of a strain of rotavirus provides replication advantage. Xu Z, et al.
Vet Microbiol 1996 Oct;52(3–4):235–47

Sequence analysis of normal and rearranged NSP5 genes from human rotavirus strains isolated in nature: implications for the occurrence of the rearrangement at the step of plus strand synthesis. Kojima K, et al. **Virology** 1996 Oct 15; 224(2):446–52

[Advances in the study on the inhibition of vascular smooth muscle proliferation by gene rearrangement and gene transfer techniques] Liang H, et al.
Chung Hua Ping Li Hsueh Tsa Chih 1996 Apr;25(2):114–7 (15 ref.) (Eng. Abstr.) **(Chi)**

[A study of the variation of the (AT)xTy motif–530bp 5' to the beta-globin gene in the Chinese population] Zhou G, et al. **I Chuan Hsueh Pao** 1996;23(6):419–24 (Eng. Abstr.) **(Chi)**

[Influenza: interspecies transmissions and viral rearrangement] Manuguerra JC, et al.
Bull Acad Natl Med 1997 Mar 18;181(3):421–30 (13 ref.) (Eng. Abstr.) **(Fre)**

[Complete remission achieved by L-asparaginase, vincristine and prednisolone (LVP) therapy in secondary leukemia (M5a type) with an MLL gene rearrangement] Tomita N, et al. **Rinsho Ketsueki** 1997 Feb;38(2):135–41 (Eng. Abstr.) **(Jpn)**

[Developmental regulation of V(D)J type recombination in the antigen receptor genes in lymphocytes] Sakano H.
Seikagaku 1996 Aug;68(8):1470–4 (18 ref.) **(Jpn)**

Unique chromosome rearrangements in karyotypes of yellow-necked mice (Apodemus flavicollis) from various populations. Nadzhafova RS. **Genetika** 1997 Jan; 33(1):126–9 (Eng. Abstr.) **(Rus)**

[PCR study of bcl-2 rearrangement in autologous transplantation of peripheral stem cells in follicular non-Hodgkin's lymphoma] Ataulfo González F, et al.
Med Clin (Barc) 1997 May 17;108(19):730–3 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Relationship between cytotoxicity and site-specific DNA recombination after in vitro exposure of leukemia cells to etoposide [see comments] Chen CL, et al.
J Natl Cancer Inst 1996 Dec 18;88(24):1840–7. Comment in: J Natl Cancer Inst 1996 Dec 18;88(24):1787–9.

GENETICS

Genome rearrangements of rotaviruses. Desselberger U.
Adv Virus Res 1996;46:69–95 (69 ref.)

Chemiluminescent detection of gene rearrangements in hematologic malignancy. Hodges KA, et al.
Ann Clin Lab Sci 1996 Mar–Apr;26(2):114–8

Genetic epidemiology of childhood cancer. Narod SA.
Biochim Biophys Acta 1996 Dec 9;1288(3):F141–50

Amplification of cyclin D1 in squamous cell carcinoma of the head and neck and the prognostic value of chromosomal abnormalities and cyclin D1 overexpression. Akervall JA, et al. **Cancer** 1997 Jan 15;79(2):380–9

Amplification of a rearranged form of the high-mobility group protein gene HMGIC in OsA–CI osteosarcoma cells. Kools PF, et al. **Cancer Genet Cytogenet** 1996 Oct 1; 91(1):1–7

Expression of reciprocal hybrid transcripts of HMGIC and FHIT in a pleomorphic adenoma of the parotid gland. Geurts JM, et al. **Cancer Res** 1997 Jan 1;57(1):13–7

Transrearrangements as biomarkers for risk of lymphoid malignancy. Kirsch IR, et al. **Cancer Surv** 1996;28:311–27 (81 ref.)

Mechanism of V(D)J recombination. Zhu C, et al.
Cancer Surv 1996;28:295–309 (69 ref.)

Epigenetic programming of developmental genome rearrangements in ciliates. Meyer E, et al. **Cell** 1996 Oct 4;87(1):9–12 (17 ref.)

Chromosome painting defines genomic rearrangements between red howler monkey subspecies. Consigliere S, et al. **Chromosome Res** 1996 Jun;4(4):264–70

BCL-2 gene rearrangements in lymphoid malignancies. Crisan D. **Clin Lab Med** 1996 Mar;16(1):23–47 (107 ref.)

PCR analysis of IgH and BCL2 gene rearrangement in the diagnosis of follicular lymphoma in lymph node fine-needle aspiration. A critical appraisal. Aiello A, et al.
Diagn Mol Pathol 1997 Jun;6(3):154–60

Plasmodium falciparum: chloroquine selection of a cloned line and DNA rearrangements. Lim AS, et al.
Exp Parasitol 1996 Aug;83(3):283–94

Alternate junctions and microheterogeneity of Tlr1, a developmentally regulated DNA rearrangement in Tetrahymena thermophila. Patil NS, et al.
J Eukaryot Microbiol 1997 Sep–Oct;44(5):518–22

Identification of carriers of Duchenne/Becker muscular dystrophy by a novel method based on detection of junction fragments in the dystrophin gene. Yamagishi H, et al. **J Med Genet** 1996 Dec;33(12):1027–31

Cell-type specificity of the Anabaena fdxN-element rearrangement requires xisH and xisI. Ramaswamy KS, et al. **Mol Microbiol** 1997 Mar;23(6):1241–9

Nested DNA inversion as a paradigm of programmed gene rearrangement. Dworkin J, et al.
Proc Natl Acad Sci U S A 1997 Feb 4;94(3):985–90

IMMUNOLOGY

Specificity in V(D)J recombination: new lessons from biochemistry and genetics. Ramsden DA, et al.
Curr Opin Immunol 1997 Feb;9(1):114–20 (42 ref.)

Aberrant V(H) gene utilization in patients with established insulin dependent diabetes mellitus. Hillörn V, et al.
J Autoimmun 1997 Apr;10(2):157–63

Constitutive expression of terminal deoxynucleotidyl transferase in transgenic mice is sufficient for N region diversity to occur at any Ig locus throughout B cell differentiation. Bentolila LA, et al. **J Immunol** 1997 Jan 15;158(2):715–23

PHYSIOLOGY

Developmentally programmed DNA rearrangement in Tetrahymena thermophila: isolation and sequence characterization of three new alternative deletion systems. Chau MF, et al. **Biol Cell** 1996;86(2–3):111–20

Cryptic signals and the fidelity of V(D)J joining. Lewis SM, et al. **Mol Cell Biol** 1997 Jun;17(6):3125–36

RADIATION EFFECTS

Clonal analysis of delayed karyotypic abnormalities and gene mutations in radiation-induced genetic instability. Grosovsky AJ, et al. **Mol Cell Biol** 1996 Nov; 16(11):6252–62

GENE REARRANGEMENT, ALPHA-CHAIN T-CELL ANTIGEN RECEPTOR

A chromosome 14q11/TCR alpha/delta specific yeast artificial chromosome improves the detection rate and characterization of chromosome abnormalities in T-lymphoproliferative disorders. Rack KA, et al. **Blood** 1997 Aug 1;90(3):1233–40

Defect in rearrangement of the most 5' TCR-J alpha following targeted deletion of T early alpha (TEA): implications for TCR alpha locus accessibility. Villey I, et al. **Immunity** 1996 Oct;5(4):331–42

Age-associated thymic atrophy in the mouse is due to a deficiency affecting rearrangement of the TCR during intrathymic T cell development. Aspinall R. **J Immunol** 1997 Apr 1;158(7):3037–45

NK 1+ CD4– CD8– alphabeta T cells in the peritoneal cavity: specific T cell receptor-mediated cytotoxicity and selective IFN-gamma production against B cell leukemia and myeloma cells. Sugie T, et al. **J Immunol** 1996 Nov 1;157(9):3925–35

Preferential rearrangements of the T cell receptor-delta-deleting elements in human T cells. Verschuren MC, et al. **J Immunol** 1997 Feb 1; 158(3):1208–16

Quantitative analysis of the usage of human T cell receptor alpha and beta chain variable regions by reverse dot blot hybridization. Yoshioka T, et al. **J Immunol Methods** 1997 Feb 28;201(2):145–55

GENETICS

V region T cell receptor repertoire in Parkinson's disease. Fiszer U, et al. **Acta Neurol Scand** 1996 Jan;93(1):25–9

Dominant T cell receptor rearrangements in interleukin 2 expanded lymphocytes from rheumatoid nodules suggest antigen driven T cell activation in situ. De Keyser F, et al. **J Rheumatol** 1997 Sep;24(9):1685–9

GENE REARRANGEMENT, BETA-CHAIN T-CELL ANTIGEN RECEPTOR

Monoclonal origin of concordant T-cell malignancy in identical twins. Ford AM, et al. **Blood** 1997 Jan 1; 89(1):281–5

Limits of the human-PBL-SCID mice model: severe restriction of the V beta T-cell repertoire of engrafted human T cells. Garcia S, et al. **Blood** 1997 Jan 1; 89(1):329–36

Oligoclonal CD4+ CD57+ T-cell expansions contribute to the imbalanced T-cell receptor repertoire of rheumatoid arthritis patients. Imberti L, et al. **Blood** 1997 Apr 15; 89(8):2822–32

Intrauterine transfusions affect fetal T-cell immunity. Viëtor HE, et al. **Blood** 1997 Sep 15;90(6):2492–501

The T cell receptor beta genes of Xenopus. Chretien I, et al. **Eur J Immunol** 1997 Mar;27(3):763–71

Conserved TCR usage by HLA-Cw* 1601-restricted T cell clones recognizing melanoma antigens. Farina C, et al.
Int Immunol 1996 Sep;8(9):1463–6

Selective usage of defined TCRBV genes in response to filarial antigens. Sartono E, et al. **Int Immunol** 1997 Jul; 9(7):955–62

Allelic exclusion in pTalpha-deficient mice: no evidence for cell surface expression of two T cell receptor (TCR)-beta chains, but less efficient inhibition of endogeneous Vbeta-–> (D)Jbeta rearrangements in the presence of a functional TCR-beta transgene. Krotkova A, et al.
J Exp Med 1997 Aug 29;186(5):767–75

T cell receptor (TCR)-beta gene recombination: dissociation from cell cycle regulation and developmental progression during T cell ontogeny. Tourigny MR, et al.
J Exp Med 1997 May 5;185(9):1549–56

Age-associated thymic atrophy in the mouse is due to a deficiency affecting rearrangement of the TCR during intrathymic T cell development. Aspinall R. **J Immunol** 1997 Apr 1;158(7):3037–45

CD8 alphabeta+ TCR alphabeta(intermediate) lymphocytes expressing skewed TCRVbeta repertoire in the liver of aged athymic nu/nu mice. Emoto M, et al. **J Immunol** 1997 Feb 1;158(3):1041–50

Regulation of superantigen-induced T cell activation in the absence and the presence of MHC class II. Lando PA, et al. **J Immunol** 1996 Oct 1;157(7):2857–63

Persistent clonal expansions of peripheral blood CD4+ lymphocytes in chronic inflammatory bowel disease. Probert CS, et al. **J Immunol** 1996 Oct 1;157(7):3183–91

Characterization of the TCRB chain repertoire in the New World monkey Callithrix jacchus. Uccelli A, et al.
J Immunol 1997 Feb 1;158(3):1201–7

Quantitative analysis of the usage of human T cell receptor alpha and beta chain variable regions by reverse dot blot hybridization. Yoshioka T, et al. **J Immunol Methods** 1997 Feb 28;201(2):145–55

OX-40 antibody enhances for autoantigen specific V beta 8.2+ T cells within the spinal cord of Lewis rats with autoimmune encephalomyelitis. Weinberg AD, et al.
J Neurosci Res 1996 Jan 1;43(1):42–9

Novel analysis of minimal residual disease in leukemia with TCR beta rearrangement--detection of monoclonality by single strand conformation polymorphism and PCR using a clonotype primer of leukemic T cell receptor beta-chain RNA. Hanawa H, et al. **Leuk Res** 1997 Mar;21(3):201–10

The prognostic significance of T cell receptor beta gene rearrangements and idiotype-reactive T cells in multiple myeloma. Brown RD, et al. **Leukemia** 1997 Aug; 11(8):1312–7

Double-negative BV8S3 T cells expanded in MRL lpr/lpr lymph nodes conserve TCRBJ gene usage of single-positive BV8S3 T cells. Fan J, et al.
Microbiol Immunol 1997;41(3):253–60

Routine diagnosis of large granular lymphocytic leukaemia by Southern blot and polymerase chain reaction analysis of clonal T cell receptor gene rearrangement. Ryan DK, et al. **Mol Pathol** 1997 Apr;50(2):77–81

Gene-targeted deletion and replacement mutations of the T-cell receptor beta-chain enhancer: the role of enhancer elements in controlling V(D)J recombination accessibility. Bories JC, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):7871–6

Deletion of the mouse T-cell receptor beta gene enhancer blocks alphabeta T-cell development. Bouvier G, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7877–81

[Angioimmunoblastic lymphadenopathy and angioimmunoblastic T-cell lymphoma] Li T, et al.
Chung Hua Ping Li Hsueh Tsa Chih 1996 Apr;25(2):99–101 (Eng. Abstr.) **(Chi)**

[Smoldering leukemia with CD7.CD34(+), immunoglobulin heavy chain rearrangement (+) and hypoplastic marrow with myelofibrosis] Hara T, et al. **Rinsho Ketsueki** 1997 Jan;38(1):21–7 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Interleukin 7 induces TCR gene rearrangement in adult marrow-resident murine precursor T cells. Soloff RS, et al. **Mol Immunol** 1997 Apr;34(6):453–62

GENETICS

V region T cell receptor repertoire in Parkinson's disease. Fiszer U, et al. **Acta Neurol Scand** 1996 Jan;93(1):25–9

Specific transcription of the unrearranged TCR V beta 8.2 gene in lymphoid tissues occurs independently of V(D)J rearrangement. Jolly CJ, et al. **Immunol Cell Biol** 1997 Feb; 75(1):13–20

Dominant T cell receptor rearrangements in interleukin 2 expanded lymphocytes from rheumatoid nodules suggest antigen driven T cell activation in situ. De Keyser F, et al. **J Rheumatol** 1997 Sep;24(9):1685–9

IMMUNOLOGY

Induction of TCR gene rearrangements in uncommitted stem cells by a subset of IL-7 producing, MHC class-II-expressing thymic stromal cells. Oosterwegel MA, et al. **Immunity** 1997 Mar;6(3):351–60

GENE REARRANGEMENT, DELTA-CHAIN T-CELL ANTIGEN RECEPTOR

Detectable molecular residual disease at the beginning of maintenance therapy indicates poor outcome in children with T-cell acute lymphoblastic leukemia. Dibenedetto SP, et al. **Blood** 1997 Aug 1;90(3):1226–32

A chromosome 14q11/TCR alpha/delta specific yeast artificial chromosome improves the detection rate and characterization of chromosome abnormalities in T-lymphoproliferative disorders. Rack KA, et al. **Blood**

1997 Aug 1;90(3):1233–40
Regulation of T cell receptor delta gene rearrangement by CBF/PEBP2. Lauzurica P, et al. **J Exp Med** 1997 Apr 7;185(7):1193–201
Developmental regulation of VDJ recombination by the core fragment of the T cell receptor alpha enhancer. Roberts JL, et al. **J Exp Med** 1997 Jan 6;185(1):131–40
Extrathymic origin of human gamma delta T cells during fetal development. McVay LD, et al. **J Immunol** 1996 Oct 1;157(7):2873–82
Preferential rearrangements of the T cell receptor–delta–deleting elements in human T cells. Verschuren MC, et al. **J Immunol** 1997 Feb 1; 158(3):1208–16
Detection of T–cell receptor delta gene rearrangement by clonal specific polymerase chain reaction. Chan DW, et al. **Leukemia** 1997 Apr;11 Suppl 3:281–4
T cell receptor Ddelta2Ddelta3 rearrangement: a suitable allele–specific marker for the detection of minimal residual disease in childhood acute lymphoblastic leukemia. Seriu T, et al. **Leukemia** 1997 May;11(5):759–61
Characterization of excised DNA intermediates associated with V(D)J recombination at the T–cell receptor delta locus. Nakajima PB, et al. **Mol Cell Biol** 1997 May; 17(5):2631–41
Limited junctional diversity of V delta 5–J delta 1 rearrangement in multiple sclerosis patients. Nowak JS, et al. **Mol Chem Neuropathol** 1997 Jan–Feb;30(1–2):95–100

IMMUNOLOGY

Induction of TCR gene rearrangements in uncommitted stem cells by a subset of IL–7 producing, MHC class–II–expressing thymic stromal cells. Oosterwegel MA, et al. **Immunity** 1997 Mar;6(3):351–60

PHYSIOLOGY

TCR–delta gene rearrangement and selection during fetal thymocyte development. Wilbert OM, et al. **J Immunol** 1997 Oct 1;159(7):3338–46

GENE REARRANGEMENT, GAMMA–CHAIN T–CELL ANTIGEN RECEPTOR

Analysis of clonal antigen receptor gene rearrangements in T–cells involved with Kaposi's sarcoma. Alaibac M, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1205–7
Detectable molecular residual disease at the beginning of maintenance therapy indicates poor outcome in children with T–cell acute lymphoblastic leukemia. Dibenedetto SP, et al. **Blood** 1997 Aug 1;90(3):1226–32
Evaluation of capillary electrophoresis in polymer solutions with laser–induced fluorescence detection for the automated detection of T–cell gene rearrangements in lymphoproliferative disorders. Oda RP, et al. **Electrophoresis** 1996 Sep;17(9):1491–8
Rearrangement and expression of Vzeta1, Vzeta2 and Vzeta3 TCR zeta genes in C57BL/6 mice. Pereira P, et al. **Int Immunol** 1996 Jan;8(1):83–90
The V–J recombination of T cell receptor–gamma genes is blocked in interleukin–7 receptor–deficient mice. Maki K, et al. **J Exp Med** 1996 Dec 1;184(6):2423–7
Extrathymic origin of human gamma delta T cells during fetal development. McVay LD, et al. **J Immunol** 1996 Oct 1;157(7):2873–82
Developmentally ordered V–J recombination in mouse T cell receptor gamma locus is not perturbed by targeted deletion of the Vgamma4 gene. Sunaga S, et al. **J Immunol** 1997 May 1;158(9):4223–8
IgH and TcR–gamma gene rearrangements identified in Hodgkin's disease by PCR demonstrate lack of correlation between genotype, phenotype, and Epstein–Barr virus status. Al Saati T, et al. **J Pathol** 1997 Apr;181(4):387–93
Routine diagnosis of large granular lymphocytic leukaemia by Southern blot and polymerase chain reaction analysis of clonal T cell receptor gene rearrangement. Ryan DK, et al. **Mol Pathol** 1997 Apr;50(2):77–81
[Smoldering leukemia with CD7.CD34(+), immunoglobulin heavy chain rearrangement (+) and hypoplastic marrow with myelofibrosis] Hara T, et al. **Rinsho Ketsueki** 1997 Jan;38(1):21–7 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Interleukin 7 induces TCR gene rearrangement in adult marrow–resident murine precursor T cells. Soloff RS, et al. **Mol Immunol** 1997 Apr;34(6):453–62

GENETICS

Clinical utility of heteroduplex analysis of TCR gamma gene rearrangements in the diagnosis of T–cell lymphoproliferative disorders. Chhanabhai M, et al. **Am J Clin Pathol** 1997 Sep;108(3):295–301
Hepatosplenic gamma/delta T–cell lymphoma: a report of two cases in immunocompromised patients, associated with isochromosome 7q. François A, et al. **Am J Surg Pathol** 1997 Jul;21(7):781–90 (43 ref.)
Interleukin–2 receptor gamma–chain mutations in severe combined immunodeficiency with B–lymphocytes. Tsuge I, et al. **Eur J Pediatr** 1996 Dec;155(12):1018–24
Defective T–cell receptor gamma gene rearrangement in interleukin–7 receptor knockout mice. Candéias S, et al. **Immunol Lett** 1997 Jun 1;57(1–3):9–14
TCR–gamma genes are rearranged but not transcribed in IL–7R alpha–deficient mice. Perumal NB, et al. **J Immunol** 1997 Jun 15;158(12):5744–50
The use of monoclonal gene rearrangement for detection of minimal residual disease in acute lymphoblastic leukemia of childhood. Sykes PJ, et al. **Leukemia** 1997 Jan; 11(1):153–8

GENE REARRANGEMENT, B–LYMPHOCYTE

Genotypic characterization and multivariate survival analysis of chronic lymphocytic leukemia in Taiwan. Chen PM, et al. **Acta Haematol** 1997;97(4):196–204
CDR3 fingerprinting of immunoglobulin kappa light chains expressed in rheumatoid arthritis. Evidence of antigenic selection or dysregulation of gene rearrangement in B cells. Bridges SL Jr, et al. **Ann N Y Acad Sci** 1997 Apr 5; 815:423–6
Recurrent identical rearrangement and repeated expression of identical heavy and light chains in single anti–phosphatidylcholine B cells. Seidl KJ, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:484–8
Individuals from multiplex insulin dependent diabetes mellitus families express higher levels of TCRBV2S1 than controls. Paul T, et al. **Biochem Soc Trans** 1997 May;25(2):314S
High frequency of somatic mutations in the VH genes expressed in prolymphocytic leukemia. Davi F, et al. **Blood** 1996 Nov 15;88(10):3953–61
Antigen selection of multiple myeloma clonogenic B cells as evidenced by V(H) and V(L) gene mutations [letter; comment] Kosmas C, et al. **Blood** 1997 Aug 1;90(3):1334–5 . Comment on: Blood 1997 Jan 1;89(1):219–26.
Multiple bcl–2/Ig gene rearrangements in persistent polyclonal B–cell lymphocytosis. Delage R, et al. **Br J Haematol** 1997 Jun;97(3):589–95
The origins of V(D)J recombination. Lewis SM, et al. **Cell** 1997 Jan 24;88(2):159–62 (20 ref.)
Clinical use of B– and T–cell gene rearrangement analysis in hematopoietic disorders. Krause JR. **Clin Lab Med** 1996 Mar;16(1):1–21
Mechanism of V(D)J recombination. Bogue M, et al. **Curr Opin Immunol** 1996 Apr;8(2):175–80 (51 ref.)
Transcription targets recombination at immunoglobulin switch sequences in a strand–specific manner. Daniels GA, et al. **Curr Top Microbiol Immunol** 1996;217:171–89
PCR–based alternative for diagnosis of immunoglobulin heavy chain gene rearrangement: principles, practice, and polemics. Diaz–Cano S. **Diagn Mol Pathol** 1996 Mar; 5(1):3–9 (34 ref.)
Expression of DNA–dependent protein kinase holoenzyme upon induction of lymphocyte differentiation and V(D)J recombination. Grawunder U, et al. **Eur J Biochem** 1996 Nov 1;241(3):931–40
Pax–5 is identical to EBB–1/KLP and binds to the VpreB and lambda5 promoters as well as the KI and KII sites upstream of the Jkappa genes. Tian J, et al. **Eur J Immunol** 1997 Mar;27(3):750–5
Editing disease–associated autoantibodies. Chen C, et al. **Immunity** 1997 Jan;6(1):97–105
Receptor editing, immune diversification, and self–tolerance. Radic MZ, et al. **Immunity** 1996 Dec;5(6):505–11 (50 ref.)
Obeying V(D)J rules in vitro. Eastman QM, et al. **Immunol Today** 1996 May;17(5):205
Rearrangement/hypermutation/gene conversion: when, where and why? Weill JC, et al. **Immunol Today** 1996 Feb; 17(2):92–7 (37 ref.)
Sequence analysis of rearranged IgVH genes from microdissected human Peyer's patch marginal zone B cells. Dunn–Walters DK, et al. **Immunology** 1996 Aug; 88(4):618–24
Effect of different Ig transgenes on B cell differentiation in scid mice. Chang Y, et al. **Int Immunol** 1997 Mar; 9(3):373–80
Immunoglobulin gene diversification in cattle. Meyer A, et al. **Int Rev Immunol** 1997;15(3–4):165–83 (45 ref.)
Proliferation kinetics associated with T cell receptor–beta chain selection of fetal murine thymocytes. Falk I, et al. **J Exp Med** 1996 Dec 1;184(6):2327–39
Disruption of the Bcl6 gene results in an impaired germinal center formation. Fukuda T, et al. **J Exp Med** 1997 Aug 4;186(3):439–48
Hodgkin and Reed–Sternberg cells in Hodgkin's disease represent the outgrowth of a dominant tumor clone derived from (crippled) germinal center B cells. Kanzler H, et al. **J Exp Med** 1996 Oct 1;184(4):1495–505
An unbiased analysis of V(H)–D–J(H) sequences from B–1a, B–1b, and conventional B cells. Kantor AB, et al. **J Immunol** 1997 Feb 1;158(3):1175–86
Generation of diversity in mammalian gut–associated lymphoid tissues: restricted V gene usage does not preclude complex V gene organization. Reynaud CA, et al. **J Immunol** 1997 Oct 1;159(7):3093–5 (18 ref.)
Analysis of the complementary determining region III of the immunoglobulin heavy chain locus in acute lymphoblastic leukemia in Chilean children. Barriga FJ, et al. **Leukemia** 1996 Nov;10(11):1719–23
The composition of coding joints formed in V(D)J recombination is strongly affected by the nucleotide sequence of the coding ends and their relationship to the recombination signal sequences. Ezekiel UR, et al. **Mol Cell Biol** 1997 Jul;17(7):4191–7
Nucleotide deletion and P addition in V(D)J recombination: a determinant role of the coding–end sequence. Nadel B, et al. **Mol Cell Biol** 1997 Jul;17(7):3768–78
V(D)J recombination frequency is affected by the sequence interposed between a pair of recombination signals: sequence comparison reveals a putative recombinational enhancer element. Roch FA, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2303–10
B–cell target DNA quantity is a critical factor in the interpretation of B–cell clonality by PCR. Taylor JM, et al. **Pathology** 1997 Aug;29(3):309–12
V(D)J recombinase activity in a subset of germinal center B lymphocytes [see comments] Han S, et al. **Science** 1997 Oct 10;278(5336):301–5. Comment in: Science 1997 Oct 10;278(5336):238–9.
Reuse of B lymphocytes in germinal centers [comment] Liu YJ. **Science** 1997 Oct 10;278(5336):238–9. Comment on: Science 1997 Oct 10;278(5336):298–301. Comment on: Science 1997 Oct 10;278(5336):301–5.
V(D)J recombination in mature B cells: a mechanism for altering antibody responses [see comments] Papavasiliou F, et al. **Science** 1997 Oct 10;278(5336):298–301. Comment in: Science 1997 Oct 10;278(5336):238–9.
[Molecular biology in malignant blood diseases. Clinical applications. Study of immunoglobulin and T–cell receptor genes and molecular analysis of the translocations] González M, et al. **Sangre (Barc)** 1996 Aug;41(4):321–34 (95 ref.) **(Spa)**

DRUG EFFECTS

The effects of cyclosporin A on V(D)J recombination activity. Döbbeling U. **Scand J Immunol** 1997 May; 45(5):494–8

GENETICS

Correlation of PCR–detected clonal gene rearrangements with bone marrow morphology in patients with B–lineage lymphomas. Coad JE, et al. **Am J Surg Pathol** 1997 Sep; 21(9):1047–56
t(14;19)/BCL3 rearrangements in lymphoproliferative disorders: a review of 23 cases. Michaux L, et al. **Cancer Genet Cytogenet** 1997 Mar;94(1):36–43 (49 ref.)
Postrearrangement diversification processes in gut–associated lymphoid tissues. Reynaud CA, et al. **Curr Top Microbiol Immunol** 1996;212:7–15 (28 ref.)
High–resolution analysis of immunoglobulin heavy–chain gene rearrangements using denaturing gradient gel electrophoresis. Tierens A, et al. **Diagn Mol Pathol** 1996 Sep;5(3):159–65
Complementation of V(D)J recombination deficiency in RAG–1(–/–) B cells reveals a requirement for novel elements in the N–terminus of RAG–1. Roman CA, et al. **Immunity** 1997 Jul;7(1):13–24
TEL gene rearrangement in acute lymphoblastic leukemia: a new genetic marker with prognostic significance. Rubnitz JE, et al. **J Clin Oncol** 1997 Mar;15(3):1150–7
Incidence of 5' bcl–2 rearrangement in patients with B cell chronic lymphocytic leukemia from India. Parikh PM, et al. **Leuk Res** 1996 Sep;20(9):791–3
Involvement of the E2A basic helix–loop–helix protein in immunoglobulin heavy chain class switching. Goldfarb AN, et al. **Mol Immunol** 1996 Aug;33(11–12):947–56

IMMUNOLOGY

Recent advances in understanding V(D)J recombination. Gellert M. **Adv Immunol** 1997;64:39–64 (108 ref.)
B lineage–restricted rearrangement of a human Ig kappa transgene. Cavelier P, et al. **Eur J Immunol** 1997 Jul; 27(7):1626–31
Normal D–JH rearranged products of the IgH gene in SCID mouse bone marrow. Araki R, et al. **Int Immunol** 1996 Jul; 8(7):1045–53
Somatic diversification of antibody responses. Zheng B, et al. **J Clin Immunol** 1996 Jan;16(1):1–11 (129 ref.)
Analysis of the frequency and pattern of somatic mutations within nonproductively rearranged human variable heavy chain genes. Dörner T, et al. **J Immunol** 1997 Mar 15; 158(6):2779–89
Characterization of B cells expressing recombination activating genes in germinal centers of immunized mouse lymph nodes. Hikida M, et al. **J Immunol** 1997 Mar 15; 158(6):2509–12
Polyreactive binding of antibodies generated by polyclonal B cell activation. II. Crossreactive and monospecific antibodies can be generated from an identical Ig rearrangement by differential glycosylation. Fernández C, et al. **Scand J Immunol** 1997 Mar;45(3):240–7

PHYSIOLOGY

Age–related impaired affinity maturation and differential D–JH gene usage in human VH6–expressing B lymphocytes from healthy individuals. van Dijk–Hård I, et al. **Eur J Immunol** 1997 Jun;27(6):1381–6

GENE REARRANGEMENT, B–LYMPHOCYTE, HEAVY CHAIN

Cloning of size–selected human immunoglobulin heavy–chain

rearrangements from third complementarity-determining region fingerprint profiles. Raaphorst FM, et al. **Biotechniques** 1996 Jan;20(1):78–82, 84, 86–7

Myeloma VL and VH gene sequences reveal a complementary imprint of antigen selection in tumor cells [see comments] Sahota SS, et al. **Blood** 1997 Jan 1; 89(1):219–26. Comment in: Blood 1997 Aug 1;90(3):1334–5.

Rapid molecular cloning of rearrangements of the IGHJ locus using long-distance inverse polymerase chain reaction. Willis TG, et al. **Blood** 1997 Sep 15;90(6):2456–64

Quantitative comparison of multiple myeloma tumor contamination in bone marrow harvest and leukapheresis autografts. Vescio RA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):103–10

Immunoglobulin heavy chain diversity genes rearrangement pattern indicates that MALT-type gastric lymphoma B cells have undergone an antigen selection process. Bertoni F, et al. **Br J Haematol** 1997 Jun;97(4):830–6

Molecular analysis of the leukaemic B cell in adult and childhood acute lymphoblastic leukaemia. Coyle LA, et al. **Br J Haematol** 1996 Sep;94(4):685–93

Simplified strategies for minimal residual disease detection in B-cell precursor acute lymphoblastic leukaemia. Landman-Parker J, et al. **Br J Haematol** 1996 Nov; 95(2):281–90

Analysis of clonality in cytologic material using the polymerase chain reaction (PCR). Jeffers MD, et al. **Cytopathology** 1997 Apr;8(2):114–21

Direct and sequential switching from mu to epsilon in patients with Schistosoma mansoni infection and atopic dermatitis. Baskin B, et al. **Eur J Immunol** 1997 Jan;27(1):130–5

Targeted disruption of the V(H) 81X gene: influence on the B cell repertoire. Huetz F, et al. **Eur J Immunol** 1997 Jan; 27(1):307–14

B-cell gene rearrangement in benign and malignant lymphoid proliferations of mucosa-associated lymphoid tissue and lymph nodes. Torlakovic E, et al. **Hum Pathol** 1997 Feb; 28(2):166–73

Constitutive Bcl-2 expression during immunoglobulin heavy chain-promoted B cell differentiation expands novel precursor B cells. Young F, et al. **Immunity** 1997 Jan; 6(1):23–33

Sequence changes at the V-D junction of the VH1 heavy chain of anti-phosphocholine antibodies alter binding to and protection against Streptococcus pneumoniae. Guo WX, et al. **Int Immunol** 1997 May;9(5):665–77

Human thymic B cells largely overexpress the VH4 Ig gene family. A possible role in the control of tolerance in situ? Tonnelle C, et al. **Int Immunol** 1997 Mar;9(3):407–14

Lack of allelic exclusion in B cell chronic lymphocytic leukemia. Rassenti LZ, et al. **J Exp Med** 1997 Apr 21; 185(8):1435–45

Differential binding avidities of human IgM for staphylococcal protein A derive from specific germ-line VH3 gene usage. Hakoda M, et al. **J Immunol** 1996 Oct 1;157(7):2976–81

V(H) repertoire maturation during B cell development in vitro: differential selection of Ig heavy chains by fetal and adult B cell progenitors. Marshall AJ, et al. **J Immunol** 1997 May 1;158(9):4282–91

IgH gene rearrangements on the unexpressed allele in rabbit B cells. Tunyaplin C, et al. **J Immunol** 1997 May 15; 158(10):4805–11

Immunoglobulin D(H) recombination signal sequence targeting: effect of D(H) coding and flanking regions and recombination partner. VanDyk LF, et al. **J Immunol** 1996 Nov 1;157(9):4005–15

Amplified follicular immune complex deposition in mice lacking the Fc receptor gamma-chain does not alter maturation of the B cell response. Vora KA, et al. **J Immunol** 1997 Sep 1;159(5):2116–24

Rearrangement status of the malignant cell determines type of secondary IgH rearrangement (V-replacement or V to DJ joining) in childhood B precursor acute lymphoblastic leukemia. Steenbergen EJ, et al. **Leukemia** 1997 Aug; 11(8):1258–65

Detection of minimal disease using rearranged immunoglobulin heavy chain genes from intermediate- and high-grade malignant B cell non-Hodgkins lymphoma. van Belzen N, et al. **Leukemia** 1997 Oct;11(10):1742–52

A novel nested-PCR strategy for the detection of rearranged immunoglobulin heavy-chain genes in B cell tumors. Voena C, et al. **Leukemia** 1997 Oct;11(10):1793–8

Genetic control of DNA antibody production: focus on the heavy chain. Tsao B, et al. **Lupus** 1997;6(3):310–4 (21 ref.)

Variable region gene segment utilization in rhesus monkey hybridomas producing human red blood cell-specific antibodies: predominance of the VH4 family but not VH4-21 (V4-34). Andris JS, et al. **Mol Immunol** 1997 Feb; 34(3):237–53

[Splenic lymphoma with villous lymphocytes: morphologic, immunologic and molecular study. Report of three cases (published erratum appears in Ann Pathol 1997 Apr;17(2):122)] Labouyrie E, et al. **Ann Pathol** 1996 Sep; 16(4):285–91 (Eng. Abstr.) **(Fre)**

[Immunoglobulin heavy chain variable region(VH) genes in B cell clones producing anti-colon antibodies in ulcerative colitis] Inoue N, et al. **Nippon Rinsho** 1996 Apr; 54(4):1176–81 (27 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

Analysis of immunoglobulin heavy chain gene rearrangement in myoepithelial sialadenitis by polymerase chain reaction. Hsi ED, et al. **Am J Clin Pathol** 1996 Oct;106(4):498–503

Quantitative PCR of the immunoglobulin heavy chain gene using genomic DNA. Elsworth AM, et al. **Br J Haematol** 1996 Dec;95(4):700–3

Comparative analysis of detection systems for evaluation of PCR amplified immunoglobulin heavy-chain gene rearrangements. Thunberg U, et al. **Diagn Mol Pathol** 1997 Jun;6(3):140–6

Analysis of the VH3 repertoire among genetically disparate individuals. Rao SP, et al. **Exp Clin Immunogenet** 1996; 13(3-4):131–8

Minimal residual disease detection in B-cell malignancies by assessing IgH rearrangement. Maloum K, et al. **Hematol Cell Ther** 1997 Jun;39(3):119–24 (52 ref.)

The use of monoclonal gene rearrangement for detection of minimal residual disease in acute lymphoblastic leukemia of childhood. Sykes PJ, et al. **Leukemia** 1997 Jan; 11(1):153–8

Polymerase chain reaction based gene rearrangement studies in the diagnosis of follicular lymphoma--performance in formaldehyde-fixed tissue and application in clinical problem cases. Miettinen M, et al. **Pathol Res Pract** 1997; 193(1):9–19

IMMUNOLOGY

The role of recombination signal sequences in the preferential joining by deletion in DH-JH recombination and in the ordered rearrangement of the IgH locus. Pan PY, et al. **Int Immunol** 1997 Apr;9(4):515–22

Frequent occurrence of identical heavy and light chain Ig rearrangements. Seidl KJ, et al. **Int Immunol** 1997 May; 9(5):689–702

Interdependence of N nucleotide addition and recombination site choice in V(D)J rearrangement. Kepler TB, et al. **J Immunol** 1996 Nov 15;157(10):4451–7

Rabbit DQ52 and DH gene expression in early B-cell development. Chen HT, et al. **Mol Immunol** 1996 Dec; 33(17-18):1313–21

GENE REARRANGEMENT, B-LYMPHOCYTE, LIGHT CHAIN

Myeloma VL and VH gene sequences reveal a complementary imprint of antigen selection in tumor cells [see comments] Sahota SS, et al. **Blood** 1997 Jan 1; 89(1):219–26. Comment in: Blood 1997 Aug 1;90(3):1334–5.

Re-evaluation of the probabilities for productive arrangements on the kappa and lambda loci. Arakawa H, et al. **Int Immunol** 1996 Jan;8(1):91–9

Coordinate transcription and V(D)J recombination of the kappa immunoglobulin light-chain locus: NF-kappaB-dependent and -independent pathways of activation. O'Brien DP, et al. **Mol Cell Biol** 1997 Jul; 17(7):3477–87

Variable region gene segment utilization in rhesus monkey hybridomas producing human red blood cell-specific antibodies: predominance of the VH4 family but not VH4-21 (V4-34). Andris JS, et al. **Mol Immunol** 1997 Feb; 34(3):237–53

V lambda-light chain genes reconstitute immune responses to defined carbohydrate antigens or haptens by utilizing different VH genes. Bot A, et al. **Mol Immunol** 1996 Dec; 33(17-18):1359–68

GENETICS

Assessing the pathogenic potential of the V(D)J recombinase by interlocus immunoglobulin light-chain gene rearrangement. Bailey SN, et al. **Mol Cell Biol** 1997 Feb; 17(2):887–94

IMMUNOLOGY

Frequent occurrence of identical heavy and light chain Ig rearrangements. Seidl KJ, et al. **Int Immunol** 1997 May; 9(5):689–702

GENE REARRANGEMENT, T-LYMPHOCYTE

Immunophenotyping and gene rearrangement analysis provide additional criteria to differentiate between cutaneous T-cell lymphomas and pseudo-T-cell lymphomas. Bakels V, et al. **Am J Pathol** 1997 Jun; 150(6):1941–9

Response: pure red blood cell aplasia: association with large granular lymphocyte leukemia and the prognostic value of cytogenetic abnormalities [letter] Tefferi A, et al. **Blood** 1996 Oct 15;88(8):3245–6

The origins of V(D)J recombination. Lewis SM, et al. **Cell** 1997 Jan 24;88(2):159–62 (20 ref.)

Clinical use of B- and T-cell gene rearrangement analysis in hematopoietic disorders. Krause JR. **Clin Lab Med** 1996 Mar;16(1):1–21

Mechanism of V(D)J recombination. Bogue M, et al. **Curr Opin Immunol** 1996 Apr;8(2):175–80 (51 ref.)

Single-cell analysis of T-cell receptor-gamma rearrangements in large-cell anaplastic lymphoma. Lorenzen J, et al. **Diagn Mol Pathol** 1996 Mar;5(1):10–9

PCR for T-cell rearrangements [letter; comment] Segal GH, et al. **Diagn Mol Pathol** 1996 Dec;5(4):297–8. Comment on: Diagn Mol Pathol 1996 Mar;5(1):26–32.

32P-incorporation PCR for the detection of rearrangements at the TCR-gamma locus [see comments] Short MA, et al. **Diagn Mol Pathol** 1996 Mar;5(1):26–32. Comment in: Diagn Mol Pathol 1996 Dec;5(4):297–8.

Initiation of V(D)J recombination in vivo: role of recombination signal sequences in formation of single and paired double-strand breaks. Steen SB, et al. **EMBO J** 1997 May 15;16(10):2656–64

Stimulation of V(D)J cleavage by high mobility group proteins. van Gent DC, et al. **EMBO J** 1997 May 15; 16(10):2665–70

A transgenic T cell receptor restores thymocyte differentiation in interleukin-7 receptor alpha chain-deficient mice. Crompton T, et al. **Eur J Immunol** 1997 Jan;27(1):100–4

Lack of directed V alpha 14-J alpha 281 rearrangements in NK1+ T cells. Shimamura M, et al. **Eur J Immunol** 1997 Jun;27(6):1576–9

Genetic variations at the T cell receptor gamma locus in circulating peripheral blood mononuclear cells of clinically categorised leprosy patients. Sachdeva G, et al. **Hum Genet** 1997 Jul;100(1):30–4

IL-7 receptor and VDJ recombination: trophic versus mechanistic actions. Candéias S, et al. **Immunity** 1997 May; 6(5):501–8 (104 ref.)

alpha, beta, gamma, and delta T cell antigen receptor genes arose early in vertebrate phylogeny. Rast JP, et al. **Immunity** 1997 Jan;6(1):1–11

Genetic control of T cell receptor BJ gene expression in peripheral lymphocytes of normal and rheumatoid arthritis monozygotic twins. Nanki T, et al. **J Clin Invest** 1996 Oct 1;98(7):1594–601

Junctional diversity in signal joints from T cell receptor beta and delta loci via terminal deoxynucleotidyl transferase and exonucleolytic activity. Candéias S, et al. **J Exp Med** 1996 Nov 1;184(5):1919–26

Identification of a DNA segment exhibiting rearrangement modifying effects upon transgenic delta-deleting elements. Janowski KM, et al. **J Exp Med** 1997 Jul 7;186(1):91–100

Disease-specific changes in gammadelta T cell repertoire and function in patients with pulmonary tuberculosis. Li B, et al. **J Immunol** 1996 Nov 1;157(9):4222–9

Concurrent or sequential delta and beta TCR gene rearrangement during thymocyte development: individual thymi follow distinct pathways. Margolis D, et al. **J Immunol** 1997 Jul 15;159(2):529–33

Immunoglobulin VH gene replacements in a T-cell lymphoblastic lymphoma. Rosenquist R, et al. **Mol Immunol** 1997 Mar;34(4):305–13

[Clonal B-cell reactions and prelymphoma in autoimmune diseases] Tiemann M, et al. **Verh Dtsch Ges Pathol** 1996; 80:169–77 (Eng. Abstr.) **(Ger)**

[Molecular biology in malignant blood diseases. Clinical applications. Study of immunoglobulin and T-cell receptor genes and molecular analysis of the translocations] González M, et al. **Sangre (Barc)** 1996 Aug;41(4):321–34 (95 ref.) **(Spa)**

GENETICS

Molecular analysis of T-cell clonality in ulcerative jejunitis and enteropathy-associated T-cell lymphoma. Ashton-Key M, et al. **Am J Pathol** 1997 Aug;151(2):493–8

Selective gamma-chain T-cell receptor gene rearrangements in a patient with Omenn's syndrome: absence of V-II subgroup (V gamma 9) transcripts. Mathioudakis G, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):616–9

T cell receptor alpha gene rearrangement and transcription in adult thymic gamma delta cells. Mertsching E, et al. **Eur J Immunol** 1997 Feb;27(2):389–96

Correspondence Re: Dunphy CH, Martin AW, Dunphy FR: B-cell lymphoproliferative disorder complicated by a natural killer cell lymphoproliferative disorder of granular lymphocytes associated with T-cell gene rearrangement. Mod Pathol 8:803, 1995 [letter; comment] Craig FE, et al. **Mod Pathol** 1996 Nov;9(11):1091–2. Comment on: Mod Pathol 1995 Oct;8(8):803–10.

Presence of clonal T-cell receptor gene rearrangements provides evidence of widespread intramucosal intestinal T-cell lymphoma. Schmitt-Gräff A, et al. **Z Gastroenterol** 1996 Oct;34(10):680–5

IMMUNOLOGY

Recent advances in understanding V(D)J recombination. Gellert M. **Adv Immunol** 1997;64:39–64 (108 ref.)

The monoclonal antibody ALK1 identifies a distinct morphological subtype of anaplastic large cell lymphoma associated with 2p23/ALK rearrangements. Pittaluga S, et al. **Am J Pathol** 1997 Aug;151(2):343–51

Heterogeneity of rearranged T cell receptor V alpha and V beta gene transcripts in synovial fluid T cells of HLA-B27 positive reactive arthritis patients. Verjans GM, et al. **Clin Rheumatol** 1996 Jan;15 Suppl 1:91–6

Germ-line transcription and methylation status of the TCR-J alpha locus in its accessible configuration. Villey I, et al. **Eur J Immunol** 1997 Jul;27(7):1619–25

How did the primordial T cell receptor and MHC molecules function initially? Kurosawa Y, et al. **Immunol Cell Biol** 1997 Apr;75(2):193–6

Transcription and demethylation of TCR beta gene initiate prior to the gene rearrangement in c-kit+ thymocytes with

CD3 expression: evidence of T cell commitment in the thymus. Hozumi K, et al. **Int Immunol** 1996 Oct; 8(10):1473–81

TCR gene recombination and alpha beta–gamma delta lineage divergence: productive TCR–beta rearrangement is neither exclusive nor preclusive of gamma delta cell development. Burtrum DB, et al. **J Immunol** 1996 Nov 15;157(10):4293–6

Normal junctional diversification of immune receptors in p53–deficient mice. Wang C, et al. **J Immunol** 1997 Jul 15;159(2):757–62

Thymic development of V gamma 3 cells. Leclercq G, et al. **Semin Immunol** 1996 Dec;8(6):315–21 (63 ref.)

RADIATION EFFECTS

Thymocyte differentiation in gamma–irradiated severe–combined immunodeficient mice: characterization of intermediates and products of V(D)J recombination at the T cell receptor alpha locus. Zhu C, et al. **Eur J Immunol** 1996 Dec;26(12):2859–65

GENE REARRANGEMENT, T-CELL ANTIGEN RECEPTOR see **GENE REARRANGEMENT, T-LYMPHOCYTE**

GENE TARGETING

Time course of inhibition of hypertension by antisense oligonucleotides targeted to AT1 angiotensin receptor mRNA in spontaneously hypertensive rats. Gyurko R, et al. **Am J Hypertens** 1997 May;10(5 Pt 2):56S–62S

Intestinal physiology and pathology in gene–targeted mouse models of cystic fibrosis. Grubb BR, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G258–66 (76 ref.)

Cell targeting for gene delivery: use of fusion protein containing the modified human receptor for ecotropic murine leukemia virus. Ohno K, et al. **Biochem Mol Med** 1995 Dec;56(2):172–5

Protein targeting and translocation; a comparative survey. Baker A, et al. **Biol Rev Camb Philos Soc** 1996 Nov; 71(4):637–702 (318 ref.)

Single–tube immuno–capture and PCR of genotoxin–modified DNA: application to gene–specific damage analysis. Denissenko MF, et al. **Biotechniques** 1996 Aug;21(2):187–8

Targeted disruption of guanosine diphosphate–dissociation inhibitor for Rho–related proteins, GDID4: normal hematopoietic differentiation but subtle defect in superoxide production by macrophages derived from in vitro embryonal stem cell differentiation. Guillemot JC, et al. **Blood** 1996 Oct 1;88(7):2722–31

Double knockout of the MRP gene leads to increased drug sensitivity in vitro. Lorico A, et al. **Cancer Res** 1996 Dec 1;56(23):5351–5

In vivo ablation of surface immunoglobulin on mature B cells by inducible gene targeting results in rapid cell death [see comments] Lam KP, et al. **Cell** 1997 Sep 19;90(6):1073–83 . Comment in: Cell 1997 Sep 19;90(6):971–3.

Cytokines score a knockout. Harnessing gene targeting to gain insight into the pathogenesis of myocarditis [editorial; comment] Libby P, et al. **Circulation** 1997 Feb 4;95(3):551–2 . Comment on: Circulation 1997 Feb 4;95(3):655–61.

Combination of gene targeting and gene transfer by adenoviral vectors in the analysis of neurotrophin–mediated neuronal plasticity. Griesbeck O, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:77–83 (39 ref.)

Targeted inactivation of the mouse Huntington's disease gene homolog Hdh. MacDonald ME, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:627–38

Early mouse development: lessons from gene targeting. St–Jacques B, et al. **Curr Opin Genet Dev** 1996 Aug; 6(4):439–44 (67 ref.)

Gene targeting reveals a hierarchy of transcription factors regulating specification of lymphoid cell fates. Singh H. **Curr Opin Immunol** 1996 Apr;8(2):160–5 (40 ref.)

Construction of chicken x human microcell hybrids for human gene targeting. Koi M, et al. **Cytogenet Cell Genet** 1997;76(1–2):72–6

Gene targeting the myf–5 locus with nlacZ reveals expression of this myogenic factor in mature skeletal muscle fibres as well as early embryonic muscle. Tajbakhsh S, et al. **Dev Dyn** 1996 Jul;206(3):291–300

Analysis of glucocorticoid and mineralocorticoid signalling by gene targeting. Berger S, et al. **Endocr Res** 1996 Nov; 22(4):641–52 (19 ref.)

ES cell cycle rates affect gene targeting frequencies. Udy GB, et al. **Exp Cell Res** 1997 Mar 15;231(2):296–301

In search of a better aspirin: suppression of intestinal polyposis by targeted inhibition of cyclooxygenase 2. Bresalier RS. **Gastroenterology** 1997 Sep;113(3):1039–40

Targeting retrovirus entry. Cosset FL, et al. **Gene Ther** 1996 Nov;3(11):946–56 (70 ref.)

Isolated–organ perfusion for local gene delivery: efficient adenovirus–mediated gene transfer into the liver. de Roos WK, et al. **Gene Ther** 1997 Jan;4(1):55–62

A strategy for specific targeting of therapeutic agents to tumour cells of virus–associated cancers. Evans TJ, et al. **Gene Ther** 1997 Mar;4(3):264–7

Coupling of cell–binding ligands to polyethylenimine for targeted gene delivery. Kircheis R, et al. **Gene Ther** 1997 May;4(5):409–18

Kidney–targeted liposome–mediated gene transfer in mice. Lai LW, et al. **Gene Ther** 1997 May;4(5):426–31

Positive and negative regulation of gene expression in eukaryotic cells with an inducible transcriptional regulator. Wang Y, et al. **Gene Ther** 1997 May;4(5):432–41

"Parahomologous" gene targeting in Drosophila cells: an efficient, homology–dependent pathway of illegitimate recombination near a target site. Cherbas L, et al. **Genetics** 1997 Feb;145(2):349–58

Targeted nucleotide exchange in the alkaline phosphatase gene of HuH–7 cells mediated by a chimeric RNA/DNA oligonucleotide. Kren BT, et al. **Hepatology** 1997 Jun; 25(6):1462–8

Progress in transcriptionally targeted and regulatable vectors for genetic therapy. Miller N, et al. **Hum Gene Ther** 1997 May 1;8(7):803–15 (108 ref.)

Gene targeting to the centromeric DNA of a human minichromosome. Raimondi E, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1103–9

Murine mucopolysaccharidosis type I: targeted disruption of the murine alpha–L–iduronidase gene. Clarke LA, et al. **Hum Mol Genet** 1997 Apr;6(4):503–11

Immunoglobulin deficient mice generated by gene targeting as models for studying the immune response. Bot A. **Int Rev Immunol** 1996;13(4):327–40 (95 ref.)

Retinoschisislike alterations in the mouse eye caused by gene targeting of the Norrie disease gene. Ruether K, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):710–8

Gene targeting approaches to the autonomic nervous system. Fritz JD, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):1–5 (63 ref.)

Biochemical and functional characterization of DNA complexes capable of targeting genes to hepatocytes via the asialoglycoprotein receptor. Perales JC, et al. **J Biol Chem** 1997 Mar 14;272(11):7398–407

Targeting DNA to cells with basic fibroblast growth factor (FGF2). Sosnowski BA, et al. **J Biol Chem** 1996 Dec 27; 271(52):33647–53

Gene modification via "plug and socket" gene targeting. Lewis J, et al. **J Clin Invest** 1996;98(11 Suppl):S3–5 (7 ref.)

Conditional gene targeting. Rajewsky K, et al. **J Clin Invest** 1996;98(11 Suppl):S51–3 (30 ref.)

Targeted expression of insulin–like growth factor to human keratinocytes: modification of the autocrine control of keratinocyte proliferation. Eming SA, et al. **J Invest Dermatol** 1996 Jul;107(1):113–20

Light and electron microscopic analysis of the central and peripheral nervous systems of acid sphingomyelinase–deficient mice resulting from gene targeting. Kuemmel TA, et al. **J Neuropathol Exp Neurol** 1997 Feb;56(2):171–9

Modification of NMDA receptor channels and synaptic transmission by targeted disruption of the NR2C gene. Ebralidze AK, et al. **J Neurosci** 1996 Aug 15; 16(16):5014–25

Use of gene targeting for compromising energy homeostasis in neuro–muscular tissues: the role of sarcomeric mitochondrial creatine kinase. Steeghs K, et al. **J Neurosci Methods** 1997 Jan;71(1):29–41

Targeted gene disruption: applications in neurobiology. van der Neut R. **J Neurosci Methods** 1997 Jan;71(1):19–27 (93 ref.)

Myelin proteolipid protein expressed in COS–1 cells is targeted to actin–associated surfaces. Kalwy SA, et al. **J Neurosci Res** 1997 May 1;48(3):201–11

The involvement of brain–derived neurotrophic factor in hippocampal long–term potentiation revealed by gene targeting experiments. Korte M, et al. **J Physiol Paris** 1996; 90(3–4):157–64

Selection for retroviral insertions into regulated genes. Gogos JA, et al. **J Virol** 1997 Feb;71(2):1644–50

Constitutive retinoid receptors expressed from adenovirus vectors that specifically activate chromosomal target genes required for differentiation of promyelocytic leukemia and teratocarcinoma cells. Lipkin SM, et al. **J Virol** 1996 Oct; 70(10):7182–9

Targeted adenovirus gene transfer to endothelial and smooth muscle cells by using bispecific antibodies. Wickham TJ, et al. **J Virol** 1996 Oct;70(10):6831–8

Liposomal targeting of bcl–2 antisense oligonucleotides with enhanced stability into human myeloma cell lines. Ollikainen H, et al. **Leuk Lymphoma** 1996 Dec; 24(1–2):165–74

Gene targeting in kidney development. Kreidberg JA. **Med Pediatr Oncol** 1996 Nov;27(5):445–52 (76 ref.)

Targeted disruption of the murine erythroid band 3 gene results in spherocytosis and severe haemolytic anaemia despite a normal membrane skeleton. Southgate CD, et al. **Nat Genet** 1996 Oct;14(2):227–30

The utilization of gene targeting to study mammalian neurobiology. Pollock JD. **Neurobiol Dis** 1995 Apr; 2(2):63–78 (106 ref.)

Strategies to accomplish targeted gene delivery to muscle cells employing tropism–modified adenoviral vectors. Douglas JT, et al. **Neuromuscul Disord** 1997 Jul;7(5):284–98 (98 ref.)

Targeting epilepsy genes. Noebels JL. **Neuron** 1996 Feb; 16(2):241–4 (21 ref.)

Sequence–specific targeting and covalent modification of human genomic DNA. Belousov ES, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3440–4

Potassium–resistant triple helix formation and improved intracellular gene targeting by oligodeoxyribonucleotides containing 7–deazaxanthine. Faruqi AF, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):633–40

Multiplex Cre/lox recombination permits selective site–specific DNA targeting to both a natural and an engineered site in the yeast genome. Sauer B. **Nucleic Acids Res** 1996 Dec 1;24(23):4608–13

Polyvinyl derivatives as novel interactive polymers for controlled gene delivery to muscle. Mumper RJ, et al. **Pharm Res** 1996 May;13(5):701–9

Efficient gene targeting in the moss Physcomitrella patens. Schaefer DG, et al. **Plant J** 1997 Jun;11(6):1195–206

Design of TATA box–binding protein/zinc finger fusions for targeted regulation of gene expression. Kim JS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3616–20

Gene targeting by linear duplex DNA frequently occurs by assimilation of a single strand that is subject to preferential mismatch correction. Leung W, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6851–6

Development of antisense and antigene oligonucleotide analogs. Miller PS. **Prog Nucleic Acid Res Mol Biol** 1996; 52:261–91 (126 ref.)

The mouse that prompted a roar [news] Marshall E. **Science** 1997 Jul 4;277(5322):24–5

Rapid colorectal adenoma formation initiated by conditional targeting of the Apc gene. Shibata H, et al. **Science** 1997 Oct 3;278(5335):120–3

Characterization of adrenocortical cell lines produced by genetically targeted tumorigenesis in transgenic mice. Compagnone NA, et al. **Steroids** 1997 Feb;62(2):238–43

Plasminogen–dependent and –independent proteolytic activity of murine endothelioma cells with targeted inactivation of fibrinolytic genes. Lijnen HR, et al. **Thromb Haemost** 1997 Feb;77(2):362–7

Thrombomodulin gene disruption and mutation in mice. Rosenberg RD. **Thromb Haemost** 1997 Jul;78(1):705–9

Gene–targeting studies: new methods, old problems. Crusio WE. **Trends Neurosci** 1996 May;19(5):186–7; discussion 188–9

Gene–targeting studies of mammalian behavior: is it the mutation or the background genotype? [see comments] [published erratum appears in Trends Neurosci 1996 Jul;19(7):271] Gerlai R. **Trends Neurosci** 1996 May; 19(5):177–81. Comment in: Trends Neurosci 1996 Nov;19(11):470. Comment in: Trends Neurosci 1996 Nov;19(11):471–2.

Mice, gene targeting and behaviour: more than just genetic background. Lathe R. **Trends Neurosci** 1996 May; 19(5):183–6; discussion 188–9

Reverse piedpiperase: is the knockout mouse leading neuroscientists to a watery end? [letter; comment] Routtenberg A. **Trends Neurosci** 1996 Nov;19(11):471–2. Comment on: Trends Neurosci 1996 May;19(5):177–81.

Gene targeting and behaviour: a genetic problem requires a genetic solution [letter; comment] Zimmer A. **Trends Neurosci** 1996 Nov;19(11):470. Comment on: Trends Neurosci 1996 May;19(5):177–81.

[Control of metastasis: from biological targets to therapeutic approaches] Scholl S, et al. **Bull Cancer** 1997 Apr; 84(4):439–42 **(Fre)**

[Ribozyme targeting reduces erb–B2 expression of SKOV3 carcinoma cells and inhibits tumor growth in vivo] Juhl H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:41–5 (Eng. Abstr.) **(Ger)**

[Induction of tumor–specific cytotoxic T–lymphocytes by non–replicating, Melan–A27–35 expressing recombinant Vaccinia viruses in vitro] Marti WR, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:85–9 (Eng. Abstr.) **(Ger)**

[Modification of gene targeting method for functional analysis of the target gene in vivo] Shibata H, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):460–5 (2 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of the mechanism of antigen receptor transmission by gene targeting] Kitamura D. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):637–9 **(Jpn)**

[Targeting of genes as a modern method for studying their functions] Tarantul VZ. **Mol Gen Mikrobiol Virusol** 1996 Apr–Jun;(2):3–13 (80 ref.) **(Rus)**

METHODS

Enrichment for gene targeting in mammalian cells by inhibition of poly(ADP–ribosylation). Waldman BC, et al. **Biochim Biophys Acta** 1996 Sep 11;1308(3):241–50

Peptide–mediated gene delivery: influence of peptide structure on gene expression. Wadhwa MS, et al. **Bioconjug Chem** 1997 Jan–Feb;8(1):81–8

Protocol for site–directed mutagenesis in the preparation of large gene–targeting vectors. De Togni P. **Biotechniques** 1997 Mar;22(3):426–8, 430

Rapid method for construction of gene disruption plasmids in Saccharomyces cerevisiae. Fujimura H. **Biotechniques** 1996 Aug;21(2):208–9

Animal models in biomedical research: transgenesis and gene targeting. Roes J. **Br J Hosp Med** 1997 Apr 16–May 6; 57(8):410–1

Targeted disruption of the melanocortin–4 receptor results in obesity in mice. Huszar D, et al. **Cell** 1997 Jan 10; 88(1):131–41

Transposon–generated 'knock–out' and 'knock–in' gene–targeting constructs for use in mice. Westphal CH, et al. **Curr Biol** 1997 Jul 1;7(7):530–3

GENE TARGETING

A gene trap approach to identify genes that control development. Takeuchi T. **Dev Growth Differ** 1997 Apr; 39(2):127–34 (31 ref.)

Genomic targeting with an MBP–Cre fusion protein [published erratum appears in Gene 1997 Apr 11;189(1):149] Kolb AF, et al. **Gene** 1996 Dec 12; 183(1–2):53–60

Gene targeting of CFTR DNA in CF epithelial cells. Kunzelmann K, et al. **Gene Ther** 1996 Oct;3(10):859–67

Efficient gene targeting in mouse embryonic stem cells. Templeton NS, et al. **Gene Ther** 1997 Jul;4(7):700–9

Gene targeting in embryonic stem cells: the new physiology and metabolism. Moreadith RW, et al. **J Mol Med** 1997 Mar;75(3):208–16 (81 ref.)

SINE targeting of bovine microsatellites from bovine/rodent hybrid cell lines. Kostia S, et al. **Mamm Genome** 1997 May; 8(5):365–7

Human immunodeficiency virus–1 proviral gene disruption by targeted gene therapy: a hypothetical technique for the elimination of provirus from the infected cells. Batchu RB, et al. **Med Hypotheses** 1997 Jul;49(1):35–9 (32 ref.)

Targeted disruption of specific cytochromes P450 and xenobiotic receptor genes. Fernandez–Salguero PM, et al. **Methods Enzymol** 1996;272:412–30

Polymerase chain reaction–based gene disruption in Trypanosoma brucei. Gaud A, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):113–5

Ectopic gene targeting exhibits a bimodal distribution of integration in murine cells, indicating that both intra– and interchromosomal sites are accessible to the targeting vector. Dellaire G, et al. **Mol Cell Biol** 1997 Sep; 17(9):5571–80

Influence of DNA sequence identity on efficiency of targeted gene replacement. Negritto MT, et al. **Mol Cell Biol** 1997 Jan;17(1):278–86

Efficient removal of loxP–flanked DNA sequences in a gene–targeted locus by transient expression of Cre recombinase in fertilized eggs. Sunaga S, et al. **Mol Reprod Dev** 1997 Feb;46(2):109–13

Short–order Sindbis vector targeting [news] Wickham T. **Nat Biotechnol** 1997 Aug;15(8):717

Target practice in transgenics [news] Bradley A, et al. **Nat Genet** 1996 Oct;14(2):121–3

PCR–mediated direct gene disruption in Schizosaccharomyces pombe. Kaur R, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1080–1

Introduction of the negative selection marker into replacement vectors by a single ligation step. Tzimagiorgis G, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3476–7

Single–copy transgenic mice with chosen–site integration [see comments] Bronson SK, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9067–72. Comment in: Proc Natl Acad Sci U S A 1996 Aug 20;93(17):8824–8.

Targeted transgenesis [comment] Jasin M, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8804–8. Comment on: Proc Natl Acad Sci U S A 1996 Aug 20;93(17):9067–72.

Primary target. Sikorski R, et al. **Science** 1997 Sep 19; 277(5333):1848

Consequences of tissue factor pathway inhibitor gene–disruption in mice. Huang ZF, et al. **Thromb Haemost** 1997 Jul;78(1):699–704

Gene trapping and functional genomics. Evans MJ, et al. **Trends Genet** 1997 Sep;13(9):370–4 (34 ref.)

GENE THERAPY

Glioma cells transduced with selection transgenes may not form gliomas in vivo and can also inhibit glioma formation by admixed wild glioma cell lines. Whittle IR, et al. **Acta Neurochir Suppl (Wien)** 1997;68:139–43

The maturation of human gene therapy. Friedmann T. **Acta Paediatr** 1996 Nov;85(11):1261–5 (37 ref.)

Management of hemophilias—gene therapy to come? Vajó Z, et al. **Acta Physiol Hung** 1996;84(2):191–8 (27 ref.)

Hepatic gene therapy for hemophilia B. Kay MA. **Adv Exp Med Biol** 1995;386:229–34 (16 ref.)

Gene therapy of primary immunodeficiencies. Fischer A, et al. **Adv Nephrol Necker Hosp** 1997;26:107–20 (54 ref.)

Prevention and treatment of renal carcinoma: new genetic strategies. Junien C, et al. **Adv Nephrol Necker Hosp** 1997; 26:81–106 (130 ref.)

Prospects for gene therapy of postangioplasty restenosis. Steg PG, et al. **Adv Nephrol Necker Hosp** 1997;26:121–31 (57 ref.)

Gene therapy for kidney disease. Sukhatme VP. **Adv Nephrol Necker Hosp** 1997;26:73–80 (33 ref.)

Potential of neural "stem–like" cells for gene therapy and repair of the degenerating central nervous system. Snyder EY, et al. **Adv Neurol** 1997;72:121–32 (69 ref.)

Gene therapy and the use of stem cells for central nervous system regeneration. Whittemore SR, et al. **Adv Neurol** 1997;72:113–9 (34 ref.)

In vivo gene therapy with adeno–associated virus vectors for cystic fibrosis. Flotte TR, et al. **Adv Pharmacol** 1997; 40:85–101 (67 ref.)

Engineering herpes simplex virus vectors for human gene therapy. Glorioso JC, et al. **Adv Pharmacol** 1997;40:103–36 (195 ref.)

Anti–oncogene ribozymes for cancer gene therapy. Irie A, et al. **Adv Pharmacol** 1997;40:207–57 (350 ref.)

Cytokine gene transduction in the immunotherapy of cancer. Parmiani G, et al. **Adv Pharmacol** 1997;40:259–307 (235 ref.)

Gene therapy approaches to enhance antitumor immunity. Shawler DL, et al. **Adv Pharmacol** 1997;40:309–37 (82 ref.)

Modified steroid receptors and steroid–inducible promoters as genetic switches for gene therapy. White JH. **Adv Pharmacol** 1997;40:339–67 (155 ref.)

Prostacyclin and nitric oxide–related gene transfer in preventing arterial thrombosis and restenosis. Wu KK. **Agents Actions Suppl** 1997;48:107–23 (35 ref.)

Gene therapy for HIV: from myth to reality? Boyer O, et al. **AIDS** 1995;9 Suppl A:S203–12 (213 ref.)

Experimental gene therapy: the transfer of Tat–inducible interferon genes protects human cells against HIV–1 challenge in vitro and in vivo in severe combined immunodeficient mice. Sanhadji K, et al. **AIDS** 1997 Jul; 11(8):977–86

Human gene therapy for melanoma: CT–guided interstitial injection. Waddill W 3rd, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):63–7

Gene therapy for human renal disease? Don't catch your zinc finger in your leucine zipper. Fine LG. **Am J Kidney Dis** 1997 Jul;30(1):xliv–xlviii

Molecular therapy for renal diseases. Lipkowitz MS, et al. **Am J Kidney Dis** 1996 Oct;28(4):475–92 (169 ref.)

Adenovirus–mediated gene therapy of ovarian cancer in a mouse model. Behbakht K, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1260–5

Pulmonary physiology and gene therapy [editorial] Rannels DE. **Am J Physiol** 1996 Jan;270(1 Pt 1):L1

Ethical considerations in pulmonary genetic testing and gene therapy. Kimyai–Asadi A, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):3–8

Herpes simplex thymidine kinase gene transfer is required for complete regression of murine colon adenocarcinoma. Nielsen CS, et al. **Am Surg** 1997 Jul;63(7):617–20

Cancer and gene therapy. Schmidt–Wolf GD, et al. **Ann Hematol** 1996 Nov;73(5):207–18

Gene therapy for cardiovascular diseases. Ylä–Herttuala S. **Ann Med** 1996 Apr;28(2):89–93 (28 ref.)

Prevention of restenosis by gene therapy. Kaneda Y, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:299–308; discussion 308–10

The ethics of somatic and germline gene therapy. McDonough PG. **Ann N Y Acad Sci** 1997 Jun 17; 816:378–82 (09 ref.)

Wild–type p53 gene transfer: a novel therapeutic strategy for neointimal hyperplasia after arterial injury. Yonemitsu Y, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:395–400 (13 ref.)

Gene therapy—the challenge for the future. Moore MA, et al. **Ann Oncol** 1996;7 Suppl 2:53–8

Gene therapy for vascular disease. Schwartz LB, et al. **Ann Vasc Surg** 1997 Mar;11(2):189–99 (100 ref.)

Toward cystic fibrosis gene therapy. Wagner JA, et al. **Annu Rev Med** 1997;48:203–16 (92 ref.)

Development and applications of vaccines and gene therapy in AIDS. Proceedings of an international workshop. Naples, Italy, June 15–16, 1995. **Antibiot Chemother** 1996; 48:IX–X, 1–246

The HIV–1 regulatory genes tat and rev as targets for gene therapy. Caputo A, et al. **Antibiot Chemother** 1996; 48:205–16

A replication–deficient human immunodeficiency virus–1 genome as an interference–inducing provirus. Federico M, et al. **Antibiot Chemother** 1996;48:217–25

Genetic pharmacomodulation of nucleoside analogues and gene therapy for AIDS and cancer. Guettari N, et al. **Antibiot Chemother** 1996;48:198–204 (21 ref.)

TAR decoys and trans–dominant gag mutant for HIV–1 gene therapy. Lisziewicz J. **Antibiot Chemother** 1996;48:192–7 (17 ref.)

Development of ribozyme gene therapy for HIV infection. Wong–Staal F. **Antibiot Chemother** 1996;48:226–32

Gene therapy of prostate cancer: p53, suicidal genes, and other targets. Boulikas T. **Anticancer Res** 1997 May–Jun; 17(3A):1471–505 (236 ref.)

Collagen as matrix for neo–organ formation by gene–transfected fibroblasts. Rosenthal FM, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1179–86

In vivo adenovirus–mediated p53 tumor suppressor gene therapy for colorectal cancer. Spitz FR, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3415–22

Human epithelial ovarian cancer xenotransplants into nude mice can be cured by adenovirus–mediated thymidine kinase gene therapy. Tong XW, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):811–3

Comparative analysis of five highly conserved target sites within the HIV–1 RNA for their susceptibility to hammerhead ribozyme–mediated cleavage in vitro and in vivo. Ramezani A, et al. **Antisense Nucleic Acid Drug Dev** 1996 Fall;6(3):229–35

Keratinocytes as a target for gene therapy. Sustained production of erythropoietin in mice by human keratinocytes transduced with an adenoassociated virus vector. Descamps V, et al. **Arch Dermatol** 1996 Oct; 132(10):1207–11

In vivo suppression of early experimental osteoarthritis by interleukin–1 receptor antagonist using gene therapy. Pelletier JP, et al. **Arthritis Rheum** 1997 Jun;40(6):1012–9

Specific regulation of gene expression by antisense nucleic acids: a summary of methodologies and associated problems. Kawasaki H, et al. **Artif Organs** 1996 Aug; 20(8):836–48

Gene therapy for vascular diseases. Nabel EG. **Atherosclerosis** 1995 Dec;118 Suppl:S51–6 (41 ref.)

Molecular biology and post–angioplasty restenosis. Nikol S, et al. **Atherosclerosis** 1996 Jun;123(1–2):17–31 (79 ref.)

Ocular gene therapy: the basic science and current state of research. da Cruz L, et al. **Aust N Z J Ophthalmol** 1997 May;25(2):97–104 (45 ref.)

Anti–sense and gene therapy approaches to the treatment of lymphomas. Devereux S, et al. **Baillieres Clin Haematol** 1996 Dec;9(4):819–34 (86 ref.)

Gene therapy for haemophilia. Pasi KJ. **Baillieres Clin Haematol** 1996 Jun;9(2):305–17 (31 ref.)

Gene therapies for glioblastomas. Viola JJ, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):413–24 (47 ref.)

Intracavitary liposome–mediated p53 gene transfer into glioblastoma with endogenous wild–type p53 in vivo results in tumor suppression and long–term survival. Hsiao M, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):359–64

Therapeutic angiogenesis following arterial gene transfer of vascular endothelial growth factor in a rabbit model of hindlimb ischemia. Takeshita S, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):628–35

Gene transfer to muscle. Dickson G. **Biochem Soc Trans** 1996 May;24(2):514–9 (48 ref.)

Gene therapy for arthritis: principles and clinical practice. Kang R, et al. **Biochem Soc Trans** 1997 May;25(2):533–7 (37 ref.)

Gene therapy for primary immunodeficiency. Thrasher AJ, et al. **Biochem Soc Trans** 1997 May;25(2):537–40 (16 ref.)

Complexes of non–cationic liposomes and histone H1 mediate efficient transfection of DNA without encapsulation. Hagstrom JE, et al. **Biochim Biophys Acta** 1996 Oct 2; 1284(1):47–55

Human somatic cell gene therapy. Bank A. **Bioessays** 1996 Dec;18(12):999–1007 (84 ref.)

Stable transduction of recombinant adeno–associated virus into hematopoietic stem cells from normal and sickle cell patients. Lubovy M, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):24–30

Non–viral gene transfer: applications in developmental biology and gene therapy. Abdallah B, et al. **Biol Cell** 1995; 85(1):1–7 (36 ref.)

Pharmaceutical studies for gene therapy: expression of human Cu, Zn–superoxide dismutase gene transfected by lipofection in rat skin fibroblasts. Nishiguchi K, et al. **Biol Pharm Bull** 1996 Aug;19(8):1073–7

Inhibition of human immunodeficiency virus–1 (HIV–1) replication after transduction of granulocyte colony–stimulating factor–mobilized CD34+ cells from HIV–1–infected donors using retroviral vectors containing anti–HIV–1 genes. Bauer G, et al. **Blood** 1997 Apr 1; 89(7):2259–67

Retroviral–mediated gene transfer of gp91phox into bone marrow cells rescues defect in host defense against Aspergillus fumigatus in murine X–linked chronic granulomatous disease. Björgvinsdóttir H, et al. **Blood** 1997 Jan 1;89(1):41–8

Adenovirus–mediated transfer of tissue–type plasminogen activator augments thrombolysis in tissue–type plasminogen activator–deficient and plasminogen activator inhibitor–1–overexpressing mice. Carmeliet P, et al. **Blood** 1997 Aug 15;90(4):1527–34

Complete short–term correction of canine hemophilia A by in vivo gene therapy. Connelly S, et al. **Blood** 1996 Nov 15;88(10):3846–53

Activation of delta–globin gene expression by erythroid Krupple–like factor: a potential approach for gene therapy of sickle cell disease. Donze D, et al. **Blood** 1996 Nov 15; 88(10):4051–7

Therapeutic levels of functional human factor X in rats after retroviral–mediated hepatic gene therapy. Le M, et al. **Blood** 1997 Feb 15;89(4):1254–9

Hematopoietic stem cell–based gene therapy for acquired immunodeficiency syndrome: efficient transduction and expression of RevM10 in myeloid cells in vivo and in vitro. Su L, et al. **Blood** 1997 Apr 1;89(7):2283–90

Genetic correction of p67phox deficient chronic granulomatous disease using peripheral blood progenitor cells as a target for retrovirus mediated gene transfer. Weil WM, et al. **Blood** 1997 Mar 1;89(5):1754–61

Severe combined immunodeficiency mice engrafted with human T cells, B cells, and myeloid cells after transplantation with human fetal bone marrow or liver cells and implanted with human fetal thymus: a model for studying human gene therapy. Yurasov S, et al. **Blood** 1997 Mar 1;89(5):1800–10

The vascular wall as a target for association studies by the candidate gene approach. Mao C, et al. **Blood Press Suppl** 1996;4:6–11 (47 ref.)

ABC of clinical haematology. The future of haematology, molecular biology, and gene therapy. Fielding AK, et al. **BMJ** 1997 May 10;314(7091):1396–9 (0 ref.)

Gene therapy for malignant neoplasms of the CNS. Culver KW. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S6–9 (20 ref.)

Gene therapy for hematopoietic and immune disorders. Kohn DB. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S55–8 (23 ref.)

Drug-resistant dihydrofolate reductases: generation, expression and therapeutic application. McIvor RS. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S50-4 (19 ref.)

Gene therapy for brain tumours [editorial] Whittle IR. **Br J Neurosurg** 1995;9(6):717-20

Gene therapy in Duchenne muscular dystrophy. Inui K, et al. **Brain Dev** 1996 Sep-Oct;18(5):357-61 (47 ref.)

Duchenne/Becker muscular dystrophy: from molecular diagnosis to gene therapy. Matsuo M. **Brain Dev** 1996 May-Jun;18(3):167-72 (38 ref.)

Gene therapy for brain tumors. Kramm CM, et al. **Brain Pathol** 1995 Oct;5(4):345-81 (346 ref.)

Alleviation of behavioral deficits in aged rodents following implantation of encapsulated GDNF-producing fibroblasts. Emerich DF, et al. **Brain Res** 1996 Oct 14;736(1-2):99-110

Endothelial cell-based cytokine gene delivery inhibits 9L glioma growth in vivo. Nam M, et al. **Brain Res** 1996 Aug 26;731(1-2):161-70

Correction of retinal abnormalities found in albinism by introduction of a functional tyrosinase gene in transgenic mice and rabbits. Jeffery G, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):95-102

Inhibition of signaling from Type 1 receptor tyrosine kinases via intracellular expression of single-chain antibodies. Beerli RR, et al. **Breast Cancer Res Treat** 1996;38(1):11-7 (32 ref.)

Breast cancer angiogenesis--new approaches to therapy via antiangiogenesis, hypoxic activated drugs, and vascular targeting. Harris AL, et al. **Breast Cancer Res Treat** 1996; 38(1):97-108 (52 ref.)

Gene therapy strategies for carcinoma of the breast. Ruppert JM, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):93-114 (201 ref.)

Gene therapy of T helper cells in HIV infection: mathematical model of the criteria for clinical effect. Lund O, et al. **Bull Math Biol** 1997 Jul;59(4):725-45

Response to "Germ-line therapy to cure mitochondrial disease: protocol and ethics of in vitro ovum nuclear transplantation" by Donald S. Rubenstein, David C. Thomasma, Eric A. Schon, and Michael J. Zinaman (CQ Vol 4, No 3). Bacchetta MD, et al. **Camb Q Healthc Ethics** 1996 Summer;5(3):450-7 (10 ref.)

Altering humans--the case for and against human gene therapy. Holtug N. **Camb Q Healthc Ethics** 1997 Spring; 6(2):157-74 (68 ref.)

A Phase I clinical trial of immunotherapy with interferon-gamma gene-modified autologous melanoma cells: monitoring the humoral immune response. Abdel-Wahab Z, et al. **Cancer** 1997 Aug 1;80(3):401-12

Gene Therapy of Cancer V. San Diego, California, November 14-16, 1996. Abstracts. **Cancer Gene Ther** 1996 Nov-Dec;3(6 Suppl):S1-45

An HSVtk-mediated local and distant antitumor bystander effect in tumors of head and neck origin in athymic mice. Bi W, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):246-52

The effect of promoter strength in adenoviral vectors containing herpes simplex virus thymidine kinase on cancer gene therapy in vitro and in vivo. Elshami AA, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):213-21

Increase of cytotoxic sensitivity of primary human melanoma cells transfected with the interleukin-7 gene to autologous and allogeneic immunologic effector cells. Finke S, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):260-8

Sensitization of colorectal and pancreatic cancer cell lines to the prodrug 5-(aziridin-1-yl)-2,4-dinitrobenzamide (CB1954) by retroviral transduction and expression of the E. coli nitroreductase gene. Green NK, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):229-38

Adenoviral-mediated suicide gene therapy for hepatic metastases of breast cancer. Kwong YL, et al. **Cancer Gene Ther** 1996 Sep-Oct;3(5):339-44

Transmissibility of murine stem cell virus-based retroviral vectors carrying both interleukin-12 cDNAs and a third gene: implications for immune gene therapy. Lieu FH, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):167-75

The drug verapamil inhibits bystander killing but not cell suicide in thymidine kinase-ganciclovir prodrug-activated gene therapy. Marini FC 3rd, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):405-12

Defective herpes simplex virus vectors expressing thymidine kinase for the treatment of malignant glioma. Miyatake S, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):222-8

Gene delivery into malignant cells in vivo by a conjugated adenovirus/DNA complex. Nguyen DM, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):183-90

Delivery of the p53 tumor suppressor gene into lung cancer cells by an adenovirus/DNA complex. Nguyen DM, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):191-8

In vivo gene inoculation of a recombinant single-chain antitumor antibody induces anti-immunoglobulin response. Prasad GL, et al. **Cancer Gene Ther** 1997 Jul-Aug; 4(4):253-9

Inhibition of esophageal cancer proliferation by adenovirally mediated delivery of p16INK4. Schrump DS, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):357-64

Selective augmentation of radiation effects by 5-fluorocytosine on murine B16(F10) melanoma cells transfected with cytosine deaminase gene. Szary J, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):269-72

The use of chemotherapy resistance in cancer treatment. Deisseroth AB, et al. **Cancer J Sci Am** 1997 Mar-Apr; 3(2):60-9 (50 ref.)

Gene therapy of malignant glioma via inhibition of tumor angiogenesis. Plate KH. **Cancer Metastasis Rev** 1996 Jun; 15(2):237-40 (20 ref.)

Suppression of malignancy by the 3' untranslated regions of ribonucleotide reductase R1 and R2 messenger RNAs. Fan H, et al. **Cancer Res** 1996 Oct 1;56(19):4366-9

Targeted gene delivery to Kaposi's sarcoma cells via the fibroblast growth factor receptor. Goldman CK, et al. **Cancer Res** 1997 Apr 15;57(8):1447-51

In vivo gene therapy for alpha-fetoprotein-producing hepatocellular carcinoma by adenovirus-mediated transfer of cytosine deaminase gene. Kanai F, et al. **Cancer Res** 1997 Feb 1;57(3):461-5

Use of a "replication-restricted" herpes virus to treat experimental human malignant mesothelioma. Kucharczuk JC, et al. **Cancer Res** 1997 Feb 1;57(3):466-71

Abrogation of c-kit/Steel factor-dependent tumorigenesis by kinase defective mutants of the c-kit receptor: c-kit kinase defective mutants as candidate tools for cancer gene therapy. Li Q, et al. **Cancer Res** 1996 Oct 1;56(19):4343-6

Tumor necrosis factor alpha (TNF-alpha) gene therapy targeted by ionizing radiation selectively damages tumor vasculature. Mauceri HJ, et al. **Cancer Res** 1996 Oct 1; 56(19):4311-4

Genetic immunization for the melanoma antigen MART-1/Melan-A using recombinant adenovirus-transduced murine dendritic cells. Ribas A, et al. **Cancer Res** 1997 Jul 15;57(14):2865-9

Prostate attenuated replication competent adenovirus (ARCA) CN706: a selective cytotoxic for prostate-specific antigen-positive prostate cancer cells. Rodriguez R, et al. **Cancer Res** 1997 Jul 1;57(13):2559-63

Retroviral delivery and tetracycline-dependent expression of IL-1beta-converting enzyme (ICE) in a rat glioma model provides controlled induction of apoptotic death in tumor cells. Yu JS, et al. **Cancer Res** 1996 Dec 1; 56(23):5423-7

Gene therapy of solid tumors and hematopoietic neoplasms. Bachier CR, et al. **Cancer Treat Res** 1997;77:3-26 (65 ref.)

Renal, bladder, and prostate cancers: gene therapy. Carducci MA, et al. **Cancer Treat Res** 1996;88:219-34 (66 ref.)

The c-myb proto-oncogene: a novel target for human gene therapy. Gewirtz AM. **Cancer Treat Res** 1996;84:93-112 (58 ref.)

Perspectives of arterial gene therapy for the prevention of restenosis. Feldman LJ, et al. **Cardiovasc Res** 1996 Aug; 32(2):194-207 (121 ref.)

Research initiatives in vascular disease. Shively VP, et al. **Cardiovasc Surg** 1996 Oct;4(5):565-9

Towards gene therapy of Hurler syndrome. Fairbairn LJ, et al. **Cas Lek Cesk** 1997 Jan 8;136(1):27-31

Harnessing viral devices as pharmaceuticals: fighting HIV-1's fire with fire [comment] Nolan GP. **Cell** 1997 Sep 5;90(5):821-4 (11 ref.). Comment on: Cell 1997 Sep 5;90(5):841-7. Comment on: Cell 1997 Sep 5;90(5):849-57.

Control of proinsulin production by sense-anti-sense regulation in response to glucocorticoids. Taniguchi K, et al. **Cell Transplant** 1996 Sep-Oct;5(5 Suppl 1):S55-7

The Thomas L. Petty 39th Annual Aspen Lung Conference. Genes and gene therapy. Proceedings. **Chest** 1997 Jun;111(6 Suppl):69S-152S

Gene therapy for lung cancer and mesothelioma. Albelda SM. **Chest** 1997 Jun;111(6 Suppl):144S-149S (48 ref.)

Conference summary. Gene-based therapies for inherited and acquired disorders of the lung. Curiel DT. **Chest** 1997 Jun; 111(6 Suppl):149S-152S

Adenoviral vectors for hepatic gene transfer in animals. Kay MA. **Chest** 1997 Jun;111(6 Suppl):138S-142S (43 ref.)

Somatic gene therapy for nervous system disease. Tuszynski MH, et al. **Ciba Found Symp** 1996;196:85-94; discussion 94-7 (51 ref.)

Accelerated restitution of endothelial integrity and endothelium-dependent function after phVEGF165 gene transfer. Asahara T, et al. **Circulation** 1996 Dec 15; 94(12):3291-302

Angiogenic gene therapy. A leg to stand on? [editorial; comment] Fox JC, et al. **Circulation** 1996 Dec 15; 94(12):3065-6 (11 ref.). Comment on: Circulation 1996 Dec 15;94(12):3281-90.

A little VEGF goes a long way. Therapeutic angiogenesis by direct injection of vascular endothelial growth factor-encoding plasmid DNA [editorial; comment] Majesky MW. **Circulation** 1996 Dec 15;94(12):3062-4 (17 ref.). Comment on: Circulation 1996 Dec 15;94(12):3281-90.

Potential gene therapy for lecithin-cholesterol acyltransferase (LCAT)-deficient and hypoalphalipoproteinemic patients with adenovirus-mediated transfer of human LCAT gene [see comments] Séguret-Macé S, et al. **Circulation** 1996 Nov 1;94(9):2177-84. Comment in: Circulation 1996 Nov 1;94(9):2046-51.

Reduction of restenosis after angioplasty in an atheromatous rabbit model by suicide gene therapy. Steg PG, et al. **Circulation** 1997 Jul 15;96(2):408-11

Direct intramuscular gene transfer of naked DNA encoding vascular endothelial growth factor augments collateral development and tissue perfusion [see comments] Tsurumi Y, et al. **Circulation** 1996 Dec 15;94(12):3281-90. Comment in: Circulation 1996 Dec 15;94(12):3062-4. Comment in: Circulation 1996 Dec 15;94(12):2065-6.

Downregulation of cyclin G1 expression by retrovirus-mediated antisense gene transfer inhibits vascular smooth muscle cell proliferation and neointima formation. Zhu NL, et al. **Circulation** 1997 Jul 15; 96(2):628-35

Gene therapy for haematopoietic and lymphoid disorders. Kohn DB. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:54-7 (13 ref.)

Gene therapy for HIV infection. Morgan RA. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:41-4

Vectors--shuttle vehicles for gene therapy. Wilson JM. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:31-2 (4 ref.)

Gene therapy: a brief review. Hess P. **Clin Lab Med** 1996 Mar;16(1):197-211 (17 ref.)

Ex vivo gene therapy for Alzheimer's disease and spinal cord injury. Blesch A, et al. **Clin Neurosci** 1995-96;3(5):268-74 (51 ref.)

Towards gene therapy in the nervous system. Doering LC. **Clin Neurosci** 1995-96;3(5):259-61 (14 ref.)

Adeno-associated virus vectors for gene therapy of neurodegenerative disorders. During MJ, et al. **Clin Neurosci** 1995-96;3(5):292-300 (75 ref.)

Advances in the development of herpes simplex virus-based gene transfer vectors for the nervous system. Fink DJ, et al. **Clin Neurosci** 1995-96;3(5):284-91 (41 ref.)

Gene therapy: basic concepts and recent advances. Sokol DL, et al. **Crit Rev Eukaryot Gene Expr** 1996;6(1):29-57 (218 ref.)

Keratinocyte gene transfer and gene therapy. Garlick JA, et al. **Crit Rev Oral Biol Med** 1996;7(3):204-21 (138 ref.)

Gene therapy for ischemic heart disease. Malosky S, et al. **Curr Opin Cardiol** 1996 Jul;11(4):361-8 (63 ref.)

Gene therapy for head and neck cancer. Breau RL, et al. **Curr Opin Oncol** 1996 May;8(3):227-31 (33 ref.)

Current progress in the gene therapy of cancer. Davis BM, et al. **Curr Opin Oncol** 1996 Nov;8(6):499-508 (86 ref.)

Therapeutic approaches to lysosomal storage diseases. Kaye EM. **Curr Opin Pediatr** 1995 Dec;7(6):650-4 (47 ref.)

Gene therapy in neurology. Snyder EY, et al. **Curr Opin Pediatr** 1996 Dec;8(6):558-68 (99 ref.)

Progress, problems, and prospects for gene therapy in muscle. Brown RH, et al. **Curr Opin Rheumatol** 1996 Nov; 8(6):539-43 (29 ref.)

Gene therapy. Tzeng E, et al. **Curr Probl Surg** 1996 Dec; 33(12):961-1041 (171 ref.)

Development of adeno-associated virus vectors for gene therapy of cystic fibrosis. Carter BJ, et al. **Curr Top Microbiol Immunol** 1996;218:119-44 (65 ref.)

Adeno-associated virus vectors for gene therapy of the hematopoietic system. Chatterjee S, et al. **Curr Top Microbiol Immunol** 1996;218:61-73 (55 ref.)

The challenges of recombinant adeno-associated virus manufacturing: alternative use of adeno-associated virus plasmid/liposome complexes for gene therapy applications. Lebkowski JS, et al. **Curr Top Microbiol Immunol** 1996; 218:51-9 (11 ref.)

Adeno-associated virus based vectors as antivirals. Wong KK Jr, et al. **Curr Top Microbiol Immunol** 1996;218:145-70 (157 ref.)

Validation of retroviral detection for rodent cell-derived products and gene therapy applications. Hughes JV, et al. **Dev Biol Stand** 1996;88:297-304

beta-cell function in normal rats made chronically hyperleptinemic by adenovirus-leptin gene therapy. Koyama K, et al. **Diabetes** 1997 Aug;48(8):1276-80

Gene therapy: basic concepts and applications in gastrointestinal diseases. Blum HE, et al. **Digestion** 1997; 58(2):87-97 (100 ref.)

Glucose-stimulated genes and prospects of gene therapy for type I diabetes. Mitanchez D, et al. **Endocr Rev** 1997 Aug; 18(4):520-40 (221 ref.)

Phenotypic correction of dwarfism by constitutive expression of growth hormone. Hahn TM, et al. **Endocrinology** 1996 Nov;137(11):4988-93

Using BRCA1 to treat cancer [news] **Environ Health Perspect** 1996 Jul;104(7):686-7

Gene therapy--the state of play [editorial] Barton PJ. **Eur Heart J** 1996 Sep;17(9):1295-6

Prospects for gene therapy in cardiovascular disease. Lafont A, et al. **Eur Heart J** 1996 Sep;17(9):1312-7 (69 ref.)

Prospects for human gene therapy. Bout A. **Eur J Drug Metab Pharmacokinet** 1996 Apr-Jun; 21(2):175-9 (17 ref.)

The mechanism of specific prolongation of class I-mismatched skin grafts induced by retroviral gene therapy. Mayfield RS, et al. **Eur J Immunol** 1997 May; 27(5):1177-81

Gene therapy for phenylketonuria. Eisensmith RC, et al. **Eur J Pediatr** 1996 Jul;155 Suppl 1:S16-9 (18 ref.)

Gene therapy and vascular disease: potential applications in vascular surgery. Hedin U, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):101-11 (112 ref.)

Gene therapy for cystic fibrosis: steady progress, should do well [editorial] Alton EW, et al. **Eur Respir J** 1997 Feb; 10(2):257-9

Gene therapy of diabetes mellitus--aims, methods and future prospects. Tiedge M, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:46-55 (77 ref.)

Application of a gene transfer strategy to identify molecules that incite autoimmune kidney injury. Kelley VR, et al. **Exp Nephrol** 1997 Mar-Apr;5(2):144-51

Genetic manipulation of the kidney: round one. Kitamura M. **Exp Nephrol** 1997 Mar–Apr;5(2):109–11 (51 ref.)
Gene expression in kidney using transgenic approaches. Kopp JB. **Exp Nephrol** 1997 Mar–Apr;5(2):157–67 (50 ref.)
Gene targeting in nephrology. Matsusaka T, et al. **Exp Nephrol** 1997 Mar–Apr;5(2):168–73 (40 ref.)
Gene therapeutic strategies for neuroprotection: implications for Parkinson's disease. Bowers WJ, et al. **Exp Neurol** 1997 Mar;144(1):58–68 (114 ref.)
Targets for gene therapy of Parkinson's disease: growth factors, signal transduction, and promoters. During MJ, et al. **Exp Neurol** 1997 Mar;144(1):74–81 (65 ref.)
The ethics of human genetic intervention: a postmodern perspective. Dyer AR. **Exp Neurol** 1997 Mar;144(1):168–72 (23 ref.)
Dopamine synthesis, uptake, metabolism, and receptors: relevance to gene therapy of Parkinson's disease. Elsworth JD, et al. **Exp Neurol** 1997 Mar;144(1):4–9 (44 ref.)
Development of an HSV-based vector for the treatment of Parkinson's disease. Fink DJ, et al. **Exp Neurol** 1997 Mar; 144(1):103–21 (87 ref.)
From transplants to gene therapy for Parkinson's disease. Freeman TB. **Exp Neurol** 1997 Mar;144(1):47–50 (19 ref.)
Helper virus-free herpes simplex virus-1 plasmid vectors for gene therapy of Parkinson's disease and other neurological disorders. Geller AI, et al. **Exp Neurol** 1997 Mar; 144(1):98–102 (26 ref.)
Antisense gene therapy for neurodegenerative disease? Haque N, et al. **Exp Neurol** 1997 Mar;144(1):139–46
L-Dopa and dopamine-producing gene cassettes for gene therapy approaches to Parkinson's disease. Moffat M, et al. **Exp Neurol** 1997 Mar;144(1):69–73
Gene therapy for Parkinson's disease: an approach to the prevention or palliation of levodopa-associated motor complications. Mouradian MM, et al. **Exp Neurol** 1997 Mar; 144(1):51–7 (65 ref.)
Application of ex vivo gene therapy in the treatment of Parkinson's disease. Raymon HK, et al. **Exp Neurol** 1997 Mar;144(1):82–91 (87 ref.)
Gene therapy approaches to Parkinson's disease: preclinical to clinical trials, or what steps to take to get there from here? Redmond DE Jr. **Exp Neurol** 1997 Mar;144(1):160–7 (72 ref.)
Adenoviral/retroviral vector chimeras: a novel strategy to achieve high-efficiency stable transduction in vivo. Bilbao G, et al. **FASEB J** 1997 Jul;11(8):624–34 (112 ref.)
Hematological malignancies. Brenner MK. **FASEB J** 1997 Jul;11(8):640–8 (39 ref.)
Gene therapy for newborns. Kohn DB, et al. **FASEB J** 1997 Jul;11(8):635–9 (20 ref.)
Circulating hematopoietic stem cell populations in human fetuses: implications for fetal gene therapy and alterations with in utero red cell transfusion. Eddleman KA, et al. **Fetal Diagn Ther** 1996 Jul–Aug;11(4):231–40
Cytokine-based gene therapy of human tumors. An overview. Parmiani G, et al. **Folia Biol (Praha)** 1996; 42(6):305–9 (21 ref.)
Retroviruses and retroelements in diseases and in gene therapy. Svoboda J. **Folia Biol (Praha)** 1996;42(6):283–94 (46 ref.)
Gene and other biological therapies for vascular diseases. Stephan D, et al. **Fundam Clin Pharmacol** 1997;11(2):97–110 (85 ref.)
Complete regression of established murine hepatocellular carcinoma by in vivo tumor necrosis factor alpha gene transfer [see comments] Cao G, et al. **Gastroenterology** 1997 Feb;112(2):501–10. Comment in: Gastroenterology 1997 Feb;112(2):656–9.
Tumor-specific gene expression in carcinoembryonic antigen-producing gastric cancer cells using adenovirus vectors. Lan KH, et al. **Gastroenterology** 1996 Nov; 111(5):1241–51
Making space for intestinal gene therapy [editorial; comment] Raper SE, et al. **Gastroenterology** 1997 May;112(5):1753–6 . Comment on: Gastroenterology 1997 May;112(5):1586–94.
Gene therapy for hepatocellular carcinoma: progress but many stones yet unturned! [editorial; comment] Schuster MJ, et al. **Gastroenterology** 1997 Feb;112(2):656–9 (22 ref.) . Comment on: Gastroenterology 1997 Feb;112(2):501–10.
Isolation and characterization of packaging cell lines that coexpress the adenovirus E1, DNA polymerase, and preterminal proteins: implications for gene therapy. Amalfitano A, et al. **Gene Ther** 1997 Mar;4(3):258–63
Complete correction of hyperbilirubinemia in the Gunn rat model of Crigler-Najjar syndrome type I following transient in vivo adenovirus-mediated expression of human bilirubin UDP-glucuronosyltransferase. Askari FK, et al. **Gene Ther** 1996 May;3(5):381–8
Investigation of alternative prodrugs for use with E. coli nitroreductase in 'suicide gene' approaches to cancer therapy. Bailey SM, et al. **Gene Ther** 1996 Dec; 3(12):1143–50
The sparse fur mouse as a model for gene therapy in ornithine carbamoyltransferase deficiency. Batshaw ML, et al. **Gene Ther** 1995 Dec;2(10):743–9
Approaches to enhance cancer radiotherapy employing gene transfer methods. Buchsbaum DJ, et al. **Gene Ther** 1996 Dec;3(12):1042–68 (308 ref.)
Inhibition of transfer of collagen-induced arthritis into SCID mice by ex vivo infection of spleen cells with retroviruses expressing soluble tumor necrosis factor receptor. Chernajovsky Y, et al. **Gene Ther** 1995 Dec;2(10):731–5
The choice of prodrugs for gene directed enzyme prodrug therapy of cancer. Connors TA. **Gene Ther** 1995 Dec; 2(10):702–9 (64 ref.)
Why: gene therapy? [editorial] Dalgleish AG. **Gene Ther** 1997 Jul;4(7):629–30
A method for the rapid detection of recombinant CFTR during gene therapy in cystic fibrosis. Demolombe S, et al. **Gene Ther** 1996 Aug;3(8):685–94
Euro targeting in Leiden: the fourth meeting of the EWGT, University of Leiden, 14–17 November 1996. Diaz RM, et al. **Gene Ther** 1997 Jun;4(6):501–3
Comparison of promoter strengths on gene delivery into mammalian brain cells using AAV vectors. Doll RF, et al. **Gene Ther** 1996 May;3(5):437–47
Constitutive systemic expression of IL-1Ra or soluble TNF receptor by genetically modified hematopoietic cells suppresses LPS induction of IL-6 and IL-10. Doughty LA, et al. **Gene Ther** 1997 Mar;4(3):252–7
In vivo cytokine gene therapy of human tumor xenografts in SCID mice by liposome-mediated DNA delivery. Egilmez NK, et al. **Gene Ther** 1996 Jul;3(7):607–14
Retroviral end-point titer is not predictive of gene transfer efficiency: implications for vector production. Forestell SP, et al. **Gene Ther** 1995 Dec;2(10):723–30
A novel DNA-peptide complex for efficient gene transfer and expression in mammalian cells. Gottschalk S, et al. **Gene Ther** 1996 May;3(5):48–57
Enhanced immune costimulatory activity of primary acute myeloid leukaemia blasts after retrovirus-mediated gene transfer of B7.1. Hirst WJ, et al. **Gene Ther** 1997 Jul; 4(7):691–9
Gene therapy for prostate cancer. Hrouda D, et al. **Gene Ther** 1996 Oct;3(10):845–52 (87 ref.)
Gene therapy for hepatocellular carcinoma: long-term remission of primary and metastatic tumors in mice by interleukin-2 gene therapy in vivo. Huang H, et al. **Gene Ther** 1996 Nov;3(11):980–7
Ex vivo gene delivery of platelet-derived growth factor increases 0-2A progenitors in adult rat spinal cord. Ijichi A, et al. **Gene Ther** 1996 May;3(5):389–95
Gene therapy for thalassaemia [editorial] Ioannou P. **Gene Ther** 1996 Sep;3(9):746–7
Gene therapy for the haemophilias [editorial] Jones LK, et al. **Gene Ther** 1995 Dec;2(10):699–701
Episomal expression of wild-type CFTR corrects cAMP-dependent chloride transport in respiratory epithelial cells. Lei DC, et al. **Gene Ther** 1996 May; 3(5):427–36
Laboratory and clinical studies in support of cystic fibrosis gene therapy using pCMV-CFTR-DOTAP. McLachlan G, et al. **Gene Ther** 1996 Dec;3(12):1113–23
Expression of factor VII by muscle cells in vitro and in vivo following direct gene transfer: modelling gene therapy for haemophilia [published erratum appears in Gene Ther 1996 Aug;3(8):740] Miller G, et al. **Gene Ther** 1995 Dec; 2(10):736–42
Towards the use of replicative adenoviral vectors for cancer gene therapy [editorial] Miller R, et al. **Gene Ther** 1996 Jul;3(7):557–9
Gene therapy for erythropoietic porphyrias [editorial] Moreau-Gaudry F, et al. **Gene Ther** 1996 Oct;3(10):843–4
A rapid screening procedure for the identification of high-titer retrovirus packaging clones. Murdoch B, et al. **Gene Ther** 1997 Jul;4(7):744–9
High transdominant RevM10 protein levels are required to inhibit HIV-1 replication in cell lines and primary T cells: implication for gene therapy of AIDS. Plavec I, et al. **Gene Ther** 1997 Feb;4(2):128–39
Particularities of lysosomal storage diseases gene therapy [editorial] Poenaru L. **Gene Ther** 1996 Dec;3(12):1039–41
Gene therapy of spontaneous canine melanoma and feline fibrosarcoma by intratumoral administration of histoincompatible cells expressing human interleukin-2. Quintin-Colonna F, et al. **Gene Ther** 1996 Dec; 3(12):1104–12
Partial regression, yet incomplete eradication of mammary tumors in transgenic mice by retrovirally mediated HSVtk transfer 'in vivo'. Sacco MG, et al. **Gene Ther** 1996 Dec; 3(12):1151–6
Retroviral targeted delivery. Schnierle BS, et al. **Gene Ther** 1996 Dec;3(12):1069–73 (29 ref.)
Gene transfer by naked DNA into adult mouse brain. Schwartz B, et al. **Gene Ther** 1996 May;3(5):405–11
Engineering a mini-herpesvirus as a general strategy to transduce up to 180 kb of functional self-replicating human mini-chromosomes. Sun TQ, et al. **Gene Ther** 1996 Dec; 3(12):1081–8
Gene transfer of the costimulatory molecules B7-1 and B7-2 into human multiple myeloma cells by recombinant adeno-associated virus enhances the cytolytic T cell response. Wendtner CM, et al. **Gene Ther** 1997 Jul; 4(7):726–35
Efficient purification of plasmid DNA for gene transfer using triple-helix affinity chromatography. Wils P, et al. **Gene Ther** 1997 Apr;4(4):323–30
Adenovirus-mediated generation of cAMP-stimulated Cl- transport in cystic fibrosis airway epithelia in vitro: effect of promoter and administration method. Zabner J, et al. **Gene Ther** 1996 May;3(5):458–65
Neonatal cotton rats do not exhibit destructive immune responses to adenoviral vectors. Zepeda M, et al. **Gene Ther** 1996 Nov;3(11):973–9
Applying the herpes simplex virus thymidine kinase/ganciclovir approach to ovarian cancer: an effective in vitro drug-sensitization system. Al-Hendy A, et al. **Gynecol Obstet Invest** 1997;43(4):268–75
Gene therapy for HIV infection. Calenda V, et al. **Hematol Cell Ther** 1996 Apr;38(2):211–3 (14 ref.)
An early cautious step toward clinical liver-specific gene therapy. Demetriou AA. **Hepatology** 1996 Nov; 24(5):1316–7
Restriction of tumoricidal gene therapy to selected hepatocellular carcinoma cells. Gagandeep S, et al. **Hepatology** 1996 Nov;24(5):1317–9
Transient immunosuppression with FK506 permits long-term expression of therapeutic genes introduced into the liver using recombinant adenoviruses in the rat. Ilan Y, et al. **Hepatology** 1997 Oct;26(4):949–56
Gene therapy for chronic viral hepatitis: ribozymes, antisense oligonucleotides, and dominant negative mutants. von Weizsäcker F, et al. **Hepatology** 1997 Aug;26(2):251–5 (72 ref.)
Tissue-specific growth suppression and chemosensitivity promotion in human hepatocellular carcinoma cells by retroviral-mediated transfer of the wild-type p53 gene. Xu GW, et al. **Hepatology** 1996 Nov;24(5):1264–8
Hepatic drug delivery and gene therapy. Zern MA, et al. **Hepatology** 1997 Feb;25(2):484–91
Treatment of cancer using pulsed electric field in combination with chemotherapeutic agents or genes. Nishi T, et al. **Hum Cell** 1997 Mar;10(1):81–6
ORDA reports. **Hum Gene Ther** 1997 Mar 20;8(5):625–58
Gene Therapy Advisory Committee. Writing information leaflets for patients participating in gene therapy research. Health Departments of the United Kingdom, August 1995. **Hum Gene Ther** 1996 Apr 10;7(6):751–4
Human gene therapy clinical trials in Europe. **Hum Gene Ther** 1996 Jun 20;7(10):1258–9
End-of-the-year potpourri—1996 [editorial] Anderson WF. **Hum Gene Ther** 1996 Dec 1;7(18):2201–2
In vitro and in vivo hepatoma cell-specific expression of a gene transferred with an adenoviral vector. Arbuthnot PB, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1503–14
Limited antitumor T cell response in melanoma patients vaccinated with interleukin-2 gene-transduced allogeneic melanoma cells. Arienti F, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1955–63
Adenoviral delivery of recombinant DNA into transgenic mice bearing hepatocellular carcinomas. Bao JJ, et al. **Hum Gene Ther** 1996 Feb 10;7(3):355–65
Aerosol administration of a recombinant adenovirus expressing CFTR to cystic fibrosis patients: a phase I clinical trial. Bellon G, et al. **Hum Gene Ther** 1997 Jan 1;8(1):15–25
Limited efficacy of the HSV-TK/GCV system for gene therapy of malignant gliomas and perspectives for the combined transduction of the interleukin-4 gene. Benedetti S, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1345–53
The hematological effects of folate analogs: implications for using the dihydrofolate reductase gene for in vivo selection. Blau CA, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2069–78
Direct intratumoral injection of an adenovirus expressing interleukin-12 induces regression and long-lasting immunity that is associated with highly localized expression of interleukin-12. Bramson JL, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1995–2002
Preclinical studies of lymphocyte gene therapy for mild Hunter syndrome (mucopolysaccharidosis type II). Braun SE, et al. **Hum Gene Ther** 1996 Feb 10;7(3):283–90
The bystander effect of the nitroreductase/CB1954 enzyme/prodrug system is due to a cell-permeable metabolite. Bridgewater JA, et al. **Hum Gene Ther** 1997 Apr 10;8(6):709–17
Phase I study of direct administration of a replication deficient adenovirus vector containing the E. coli cytosine deaminase gene to metastatic colon carcinoma of the liver in association with the oral administration of the pro-drug 5-fluorocytosine. Crystal RG, et al. **Hum Gene Ther** 1997 May 20;8(8):985–1001
Central nervous system delivery of recombinant ciliary neurotrophic factor by polymer encapsulated differentiated C2C12 myoblasts. Déglon N, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2135–46
Pulmonary surfactant inhibits cationic liposome-mediated gene delivery to respiratory epithelial cells in vitro. Duncan JE, et al. **Hum Gene Ther** 1997 Mar 1;8(4):431–8
Treatment of advanced CNS malignancies with the recombinant adenovirus H5.010RSVTK: a phase I trial. Eck SL, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1465–82
Clinical trial to assess the safety, feasibility, and efficacy of transferring a potentially anti-arthritic cytokine gene to human joints with rheumatoid arthritis. Evans CH, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1261–80
Viral gene delivery to skeletal muscle: insights on maturation-dependent loss of fiber infectivity for adenovirus and herpes simplex type 1 viral vectors. Feero WG, et al. **Hum Gene Ther** 1997 Mar 1;8(4):371–80
Keratinocyte gene therapy for adenosine deaminase deficiency: a model approach for inherited metabolic disorders. Fenjves ES, et al. **Hum Gene Ther** 1997 May 20;8(8):911–7
A phase I study of an adeno-associated virus-CFTR gene vector in adult CF patients with mild lung disease. Flotte

T, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1145–59
Intramarrow cytokine gene transfer by adenoviral vectors in dogs. Foley R, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):545–53
Interleukin-2 gene transduction into freshly isolated lung adenocarcinoma cells with adenoviral vectors. Heike Y, et al. **Hum Gene Ther** 1997 Jan 1;8(1):1–14
Gene therapy for the treatment of metastatic breast cancer by in vivo transduction with breast-targeted retroviral vector expressing antisense c-fos RNA. Holt JT, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1367–80
Suitability of bone marrow from HIV-1-infected donors for retrovirus-mediated gene transfer. Kearns K, et al. **Hum Gene Ther** 1997 Feb 10;8(3):301–11
In vivo correction with recombinant adenovirus of 4-hydroxyphenylpyruvic acid dioxygenase deficiencies in strain III mice. Kubo S, et al. **Hum Gene Ther** 1997 Jan 1;8(1):65–71
High-yield production of pBR322-derived plasmids intended for human gene therapy by employing a temperature-controllable point mutation. Lahijani R, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1971–80
"Our study is man" (and woman) [editorial] Ledley FD. **Hum Gene Ther** 1996 Jun 20;7(10):1193–5
A phase I trial of in vivo gene therapy with the herpes simplex thymidine kinase/ganciclovir system for the treatment of refractory or recurrent ovarian cancer. Link CJ Jr, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1161–79
Phase I/IB study of immunization with autologous tumor cells transfected with the GM-CSF gene by particle-mediated transfer in patients with melanoma or sarcoma. Mahvi DM, et al. **Hum Gene Ther** 1997 May 1; 8(7):875–91
The TMC Worldwide Gene Therapy Enrollment Report, end 1996. Marcel T, et al. **Hum Gene Ther** 1997 Apr 10; 8(6):775–800
The TMC Worldwide Gene Therapy Enrollment Report (June 1996). Marcel T, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2025–46
Progress in transcriptionally targeted and regulatable vectors for genetic therapy. Miller N, et al. **Hum Gene Ther** 1997 May 1;8(7):803–15 (108 ref.)
Adenovirus-mediated gene therapy in a mouse model of hereditary tyrosinemia type I. Overturf K, et al. **Hum Gene Ther** 1997 Mar 20;8(5):513–21
Cytokine gene therapy of cancer using gene gun technology: superior antitumor activity of interleukin-12. Rakhmilevich AL, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1303–11
Human gene marker/therapy clinical protocols. Rosenberg SA, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1621–47
Human gene marker/therapy clinical protocols. Rosenberg SA, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2287–313
Systemic hematological effects of granulocyte colony-stimulating factor produced by irradiated gene-transfected fibroblasts. Rosenthal FM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2147–56
Gene therapy in the United States: a five-year status report. Ross G, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1781–90
Transplantation of Gunn rats with autologous fibroblasts expressing bilirubin UDP-glucuronosyltransferase: correction of genetic deficiency and tumor formation. Seppen J, et al. **Hum Gene Ther** 1997 Jan 1;8(1):27–36
Modulation of the specificity and activity of a cellular promoter in an adenoviral vector. Shi Q, et al. **Hum Gene Ther** 1997 Mar 1;8(4):403–10
Myoblast gene therapy in canine mucopolysaccharidosis. I: Abrogation by an immune response to alpha-L-iduronidase. Shull RM, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1595–603
Establishment of parameters for optimal transduction efficiency and antitumor effects with purified high-titer HSV-TK retroviral vector in established solid tumors. Smiley WR, et al. **Hum Gene Ther** 1997 May 20;8(8):965–77
Use of donor T-lymphocytes expressing herpes-simplex thymidine kinase in allogeneic bone marrow transplantation: a phase I–II study. Tiberghien P, et al. **Hum Gene Ther** 1997 Mar 20;8(5):615–24
Applications of gene therapy to the CNS. Blömer U, et al. **Hum Mol Genet** 1996;5 Spec No:1397–404 (110 ref.)
Gene therapy with recombinant adenovirus vectors: evaluation of the host immune response. Christ M, et al. **Immunol Lett** 1997 Jun 1;57(1–3):19–25
Viral vectors for gene therapy of hematopoietic cells. Medin JA, et al. **Immunotechnology** 1997 Mar;3(1):3–19 (103 ref.)
Transduction of cytosine deaminase gene makes rat glioma cells highly sensitive to 5-fluorocytosine. Ge K, et al. **Int J Cancer** 1997 May 16;71(4):675–9
Adenovirus-mediated herpes simplex virus thymidine kinase gene and ganciclovir therapy leads to systemic activity against spontaneous and induced metastasis in an orthotopic mouse model of prostate cancer. Hall SJ, et al. **Int J Cancer** 1997 Jan 17;70(2):183–7
Adenovirus-mediated p53 gene transfer suppresses growth of human glioblastoma cells in vitro and in vivo. Köck H, et al. **Int J Cancer** 1996 Sep 17;67(6):808–15
Gene therapy for atherosclerosis. Rader DJ. **Int J Clin Lab Res** 1997;27(1):35–43 (85 ref.)
The development of a gene therapy for HIV infection. Poznansky MC, et al. **Int J STD AIDS** 1997 Mar;8(3):145–7; quiz 148–9
Retroviral-mediated in vivo gene transfer into muscle cells and synthesis of human factor IX in mice. Baru M, et al. **Intervirology** 1995;38(6):356–60
Gene therapy in pediatric oncology. Benaim E, et al. **Invest New Drugs** 1996;14(1):87–99 (92 ref.)
Are we ready for clinical gene therapy? Slavkin HC. **J Am Dent Assoc** 1996 Mar;127(3):396–7
Interdisciplinary forum: from Genetic Diagnosis to Gene Therapy in Oncology. 26 September–1 October, 1996, Madrid, Spain. Zänker KS, et al. **J Cancer Res Clin Oncol** 1997;123(5):288–95
Herpes simplex viral vectors expressing Bcl-2 are neuroprotective when delivered after a stroke. Lawrence MS, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):740–4
Gene therapy for neurologic disease: benchtop discoveries to bedside applications. 2. The bedside. Maria BL, et al. **J Child Neurol** 1997 Feb;12(2):77–84 (54 ref.)
Gene therapy for neurologic disease: benchtop discoveries to bedside applications. 1. The bench. Maria BL, et al. **J Child Neurol** 1997 Jan;12(1):1–12 (96 ref.)
Analysis of disease-causing genes and DNA-based drugs by capillary electrophoresis. Towards DNA diagnosis and gene therapy for human diseases. Baba Y. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):271–302 (115 ref.)
Genetic correction of dystrophin deficiency and skeletal muscle remodeling in adult MDX mouse via transplantation of retroviral producer cells. Fassati A, et al. **J Clin Invest** 1997 Aug 1;100(3):620–8
Induction of central tolerance by intrathymic inoculation of adenoviral antigens into the host thymus permits long-term gene therapy in Gunn rats. Ilan Y, et al. **J Clin Invest** 1996 Dec 1;98(11):2640–7
Transcriptional targeting of replication-defective adenovirus transgene expression to smooth muscle cells in vivo. Kim S, et al. **J Clin Invest** 1997 Sep 1;100(5):1006–14
Prevention of adoptively transferred diabetes in nonobese diabetic mice with IL-10-transduced islet-specific Th1 lymphocytes. A gene therapy model for autoimmune diabetes. Moritani M, et al. **J Clin Invest** 1996 Oct 15; 98(8):1851–9
Muscle differentiation during repair of myocardial necrosis in rats via gene transfer with MyoD. Murry CE, et al. **J Clin Invest** 1996 Nov 15;98(10):2209–17
Regulated expression of artificial chimeric genes contained in retroviral vectors: implications for virus-directed enzyme prodrug therapy (VDEPT) and other gene therapy applications. Huber BE, et al. **J Drug Target** 1996; 3(5):349–56
Treatment of experimental autoimmune encephalomyelitis with genetically modified memory T cells. Mathisen PM, et al. **J Exp Med** 1997 Jul 7;186(1):159–64
Gene therapy in transplantation. Hullett DA. **J Heart Lung Transplant** 1996 Sep;15(9):857–62 (52 ref.)
Gene marking and gene therapy for transplantation medicine. Dilloo D, et al. **J Hematother** 1996 Oct;5(5):553–5 (7 ref.)
Correction of defective expression in MHC class II deficiency (bare lymphocyte syndrome) cells by retroviral transduction of CIITA. Bradley MB, et al. **J Immunol** 1997 Aug 1;159(3):1086–95
Somatic gene therapy for phenylketonuria and other hepatic deficiencies. Eisensmith RC, et al. **J Inherit Metab Dis** 1996;19(4):412–23 (30 ref.)
Gene transfer of the uroporphyrinogen III synthase cDNA into haematopoietic progenitor cells in view of a future gene therapy in congenital erythropoietic porphyria. Mazurier F, et al. **J Inherit Metab Dis** 1997 Jun; 20(2):247–57
Topical application of viral vectors for epidermal gene transfer. Lu B, et al. **J Invest Dermatol** 1997 May; 108(5):803–8
An ex vivo keratinocyte model for gene therapy of hemophilia B. Page SM, et al. **J Invest Dermatol** 1997 Aug; 109(2):139–45
Ethical issues of perinatal human gene therapy. Fletcher JC, et al. **J Matern Fetal Med** 1996 Sep–Oct;5(5):232–44 (93 ref.)
Can enhancement be distinguished from prevention in genetic medicine? Juengst ET. **J Med Philos** 1997 Apr;22(2):125–42
In vitro T lymphopoiesis: a model system for stem cell gene therapy for AIDS. Rosenzweig M, et al. **J Med Primatol** 1996 Jun;25(3):192–200
The in vivo quantification of myocardial performance in rabbits: a model for evaluation of cardiac gene therapy. Silvestry SC, et al. **J Mol Cell Cardiol** 1996 May; 28(5):815–23
A potentially novel approach for the gene therapy of HIV-1 disease [editorial] Berneman ZN. **J Mol Med** 1995 Dec; 73(12):581–2 (9 ref.)
Transgenic animal models: new avenues in cardiovascular physiology. Franz WM, et al. **J Mol Med** 1997 Feb; 75(2):115–29
Current aspects of gene therapy: implications for vascular interventions. Reifers F, et al. **J Mol Med** 1995 Dec; 73(12):595–602 (74 ref.)
Cell type specific and inducible promoters for vectors in gene therapy as an approach for cell targeting. Walther W, et al. **J Mol Med** 1996 Jul;74(7):379–92 (82 ref.)
Structure and function of the p53 tumor suppressor gene: clues for rational cancer therapeutic strategies. Harris CC. **J Natl Cancer Inst** 1996 Oct 16;88(20):1442–55 (288 ref.)
Gene therapy group agrees to smaller size, less authority [news] Jenks S. **J Natl Cancer Inst** 1997 Jan 15;89(2):118–9
Researchers make slow headway in managing dry mouth [news] Thakkar SS. **J Natl Cancer Inst** 1997 Sep 17; 89(18):1337–8
Anti-tumor gene therapy. Cirielli C, et al. **J Neurooncol** 1997 Jan;31(1–2):217–23 (67 ref.)
Preferential radiosensitization of 9L glioma cells transduced with HSV-tk gene by acyclovir. Kim SH, et al. **J Neurooncol** 1997 Jul;33(3):189–94
N-myc amplification and its relationship to experimental therapy. Livingstone A, et al. **J Neurooncol** 1997 Jan; 31(1–2):33–9
Gene therapy for PNET. Raffel C. **J Neurooncol** 1996 Jul; 29(1):113–8 (38 ref.)
Adenoviral vector-mediated gene transfer and neurotransplantation: possibilities and limitations in grafting of the fetal rat suprachiasmatic nucleus. van Esseveldt KE, et al. **J Neurosci Methods** 1997 Jan;71(1):113–23
Treatment of leptomeningeal metastases in a rat model using a recombinant adenovirus containing the HSV-tk gene. Vincent AJ, et al. **J Neurosurg** 1996 Oct;85(4):648–54
Gene therapy for central nervous system injury: the use of cationic liposomes: an invited review. Yang K, et al. **J Neurotrauma** 1997 May;14(5):281–97 (118 ref.)
Monitoring gene therapy with herpes simplex virus thymidine kinase in hepatoma cells: uptake of specific substrates. Haberkorn U, et al. **J Nucl Med** 1997 Feb;38(2):287–94
Multitracer studies during gene therapy of hepatoma cells with herpes simplex virus thymidine kinase and ganciclovir. Haberkorn U, et al. **J Nucl Med** 1997 Jul;38(7):1048–54
Triumph over mischance: a role for nuclear medicine in gene therapy [editorial; comment] Larson SM, et al. **J Nucl Med** 1997 Aug;38(8):1230–3 (28 ref.). Comment on: J Nucl Med 1997 Aug;38(8):1221–9.
Extracellular matrix remodelling in a murine mammary adenocarcinoma transfected with the interferon-alpha 1 gene. Scarpa S, et al. **J Pathol** 1997 Jan;181(1):116–23
Emerging applications of gene transfer in the hematopoietic cancers. Brenner MK. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):1–6 (36 ref.)
In vivo retroviral-mediated transfer of a marker-gene in ornithine transcarbamylase-deficient Spf(ash) mice. Podevin G, et al. **J Pediatr Surg** 1996 Nov;31(11):1516–9
Cell and gene therapy for inherited deficiency of bilirubin glucuronidation. Kim BH, et al. **J Perinatol** 1996 May–Jun; 16(3 Pt 2):S67–72 (39 ref.)
Qualitative and quantitative measurements of oligonucleotides in gene therapy: Part I. In vitro models. Tewary HK, et al. **J Pharm Biomed Anal** 1997 Apr; 15(7):857–73 (77 ref.)
Qualitative and quantitative measurements of oligonucleotides in gene therapy: Part II in vivo models. Tewary HK, et al. **J Pharm Biomed Anal** 1997 May; 15(8):1127–35 (36 ref.)
Chloride secretion in the trachea of null cystic fibrosis mice: the effects of transfection with pTrial10-CFTR2. MacVinish LJ, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):677–87
Gene therapy for colon cancer with the herpes simplex thymidine kinase gene. Link CJ Jr, et al. **J Surg Oncol** 1997 Apr;64(4):289–94
In vivo adenoviral-mediated gene transfer in the treatment of pancreatic cancer. Evoy D, et al. **J Surg Res** 1997 Apr; 69(1):226–31
Adenoviral thymidine kinase prodrug gene therapy inhibits sarcoma growth in vivo. Ross HM, et al. **J Surg Res** 1997 Jun;70(1):7–11
Constant delivery of proinsulin by encapsulation of transfected cells. Taniguchi H, et al. **J Surg Res** 1997 Jun; 70(1):41–5
Intracoronary gene transfer of immunosuppressive cytokines to cardiac allografts: method and efficacy of adenovirus-mediated transduction. Brauner R, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1059–66; discussion 1066–7
Gene therapy for lung cancer: enhancement of tumor suppression by a combination of sequential systemic cisplatin and adenovirus-mediated p53 gene transfer. Nguyen DM, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1372–6; discussion 1376–7
In vivo antitumor effect of cationic liposomes containing diphtheria toxin A-chain gene on cells infected with bovine leukemia virus. Tana, et al. **J Vet Med Sci** 1997 Jul; 59(7):617–9
High-efficiency transduction of human lymphoid progenitor cells and expression in differentiated T cells. An DS, et al. **J Virol** 1997 Feb;71(2):1397–404
Multigene antiviral vectors inhibit diverse human immunodeficiency virus type 1 clades. Gervaix A, et al. **J Virol** 1997 Apr;71(4):3048–53
Transduction by adeno-associated virus vectors in the rabbit airway: efficiency, persistence, and readministration. Halbert CL, et al. **J Virol** 1997 Aug;71(8):5932–41
Potent inhibition of human immunodeficiency virus type 1 in primary T cells and alveolar macrophages by a combination anti-Rev strategy delivered in an adeno-associated virus vector. Inouye RT, et al. **J Virol** 1997 May;71(5):4071–8
Self-deleting retrovirus vectors for gene therapy. Russ AP, et al. **J Virol** 1996 Aug;70(8):4927–32
In vivo retrovirus-mediated herpes simplex virus thymidine kinase gene therapy approach for adult T cell leukemia in a rat model. Murata K, et al. **Jpn J Cancer Res** 1997 May;88(5):492–500

TGF-beta in kidney fibrosis: a target for gene therapy. Border WA, et al. **Kidney Int** 1997 May;51(5):1388–96 (40 ref.)

Can Alport syndrome be treated by gene therapy? Tryggvason K, et al. **Kidney Int** 1997 May;51(5):1493–9 (43 ref.)

Gene transfer to the patellar tendon. Gerich TG, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(2):118–23

Gene therapy for cystic fibrosis [letter; comment] Alton E, et al. **Lancet** 1997 Apr 26;349(9060):1249–50. Comment on: Lancet 1997 Mar 1;349(9052):619–20.

Gene therapy for cystic fibrosis [letter; comment] Colledge WH. **Lancet** 1997 Apr 26;349(9060):1249; discussion 1250 . Comment on: Lancet 1997 Mar 1;349(9052):619–20.

Reversal of cystic fibrosis phenotype in mice by gene therapy in utero [letter] [see comments] Larson JE, et al. **Lancet** 1997 Mar 1;349(9052):619–20. Comment in: Lancet 1997 Apr 26;349(9060):1249; discussion 1250. Comment in: Lancet 1997 Apr 26;349(9060):1249–50. Comment in: Lancet 1997 Apr 26;349(9060):1250–1.

Cytokine therapy in rheumatoid arthritis [letter] Maini RN, et al. **Lancet** 1996 Sep 21;348(9030):824–5

Gene therapy for cystic fibrosis [letter; comment] Turner G. **Lancet** 1997 Apr 26;349(9060):1250–1. Comment on: Lancet 1997 Mar 1;349(9052):619–20.

Gene therapy of cancer. Weichselbaum RR, et al. **Lancet** 1997 May;349 Suppl 2:SII10–2 (31 ref.)

Multi-unit anti-BCR-ABL ribozyme therapy in chronic myelogenous leukemia. Leopold LH, et al. **Leuk Lymphoma** 1996 Aug;22(5–6):365–73 (56 ref.)

Immunoregulation by B7 and IL-12 gene transfer. Kato K, et al. **Leukemia** 1997 Apr;11 Suppl 3:572–6

Gene therapy for cystic fibrosis: a potential cure. Saw SM, et al. **Md Med J** 1996 Apr;45(4):305–7

Potential role of DNA polymerase beta in gene therapy against cancer: a case for colorectal cancer. Shadan FF, et al. **Med Hypotheses** 1996 Jul;47(1):1–9

International Conference on the Biology of Melanoma. Aviano, Italy, 24–26 September 1995. Reisfeld RA, et al. **Melanoma Res** 1996 Dec;6(6):447–56

Human gene therapy. Dreams to realization. Mukhtar M, et al. **Methods Mol Biol** 1997;63:415–37 (110 ref.)

Targeted vectors for gene therapy of cancer and retroviral infections. Walther W, et al. **Mol Biotechnol** 1996 Dec; 6(3):267–86 (66 ref.)

The role of interleukin-2 in combination adenovirus gene therapy for head and neck cancer. O'Malley BW Jr, et al. **Mol Endocrinol** 1997 Jun;11(6):667–73

Germline gene therapy: its time is near. Fiddler M, et al. **Mol Hum Reprod** 1996 Feb;2(2):75–6

Retroviral vector design for gene therapy of cancer: specific inhibition and tagging of BCR-ABLp190 cells. García-Hernández B, et al. **Mol Med** 1996 Jan;2(1):124–33

Gene therapy strategies for leukemia. Braun SE, et al. **Mol Med Today** 1997 Jan;3(1):39–46 (51 ref.)

Hepatocellular carcinoma and p53 gene therapy [news] Fricker J. **Mol Med Today** 1996 Sep;2(9):361

Fanconi's anaemia, cord blood transplant and gene therapy [news] Fricker J. **Mol Med Today** 1996 Oct;2(10):406–7

Gene transfer to the liver [news] Glaser V. **Mol Med Today** 1996 Feb;2(2):47

Gene transfer for erythropoiesis enhancement. Naffakh N, et al. **Mol Med Today** 1996 Aug;2(8):343–8 (30 ref.)

Encapsulated xenogeneic cells: delivering CNTF to motor neurons [news] O'Brien C. **Mol Med Today** 1996 Nov; 2(11):448–9

Developing particle-mediated gene-transfer technology for research into gene therapy of cancer. Yang NS, et al. **Mol Med Today** 1996 Nov;2(11):476–81 (30 ref.)

Prospects for gene therapy in Parkinson's disease. Freese A, et al. **Mov Disord** 1996 Sep;11(5):469–88 (112 ref.)

The politics of human-embryo research [letter; comment] Fletcher JC, et al. **N Engl J Med** 1996 Oct 17;335(16):1243; discussion 1243–4. Comment on: N Engl J Med 1996 May 16;334(20):1329–32.

Gene therapy: the US FTC explains it all to you [editorial] [see comments] **Nat Biotechnol** 1997 Feb;15(2):109. Comment in: Nat Biotechnol 1997 Apr;15(4):299.

Antisense '97: a roundtable on the state of the industry. **Nat Biotechnol** 1997 Jun;15(6):519–24

Clearing the way for ribozymes [news] Burke JM. **Nat Biotechnol** 1997 May;15(5):414–5

Translating genomics information into therapeutics: a key role for oligonucleotides. Christoffersen RE. **Nat Biotechnol** 1997 Jun;15(6):483–4

Bioethicists ruminate separately on clones, gene 'enhancements' [news] Fox JL. **Nat Biotechnol** 1997 May; 15(5):406–7

Green light for gene therapy in healthy volunteers [news] Fox JL. **Nat Biotechnol** 1997 Apr;15(4):314

Novartis reclaims tk technology [news] Johnson E. **Nat Biotechnol** 1997 Mar;15(3):211

Gene therapy is not eugenics [letter; comment] Wagner JA. **Nat Genet** 1997 Mar;15(3):234. Comment on: Nat Genet 1997 Jan;15(1):1–2.

Long-term control of erythropoietin secretion by doxycycline in mice transplanted with engineered primary myoblasts [see comments] Bohl D, et al. **Nat Med** 1997 Mar;3(3):299–305. Comment in: Nat Med 1997 Mar;3(3):278–9.

Recombinant adeno-associated virus for muscle directed gene therapy. Fisher KJ, et al. **Nat Med** 1997 Mar; 3(3):306–12

Progress of the smart bomb cancer virus [news; comment] Lowe SW. **Nat Med** 1997 Jun;3(6):606–8. Comment on: Nat Med 1997 Jun;3(6):639–45.

Putting muscle to work for gene therapy [news; comment] Miller AD. **Nat Med** 1997 Mar;3(3):278–9. Comment on: Nat Med 1997 Mar;3(3):299–312.

Gene therapy for lysosomal storage disease: a no-brainer? Transplants of fibroblasts secreting high levels of beta-glucuronidase decrease lesions in the brains of mice with Sly syndrome, a lysosomal storage disease [news; comment] Sly WS, et al. **Nat Med** 1997 Jul;3(7):719–20. Comment on: Nat Med 1997 Jul;3(7):771–4.

Decreased lysosomal storage in the adult MPS VII mouse brain in the vicinity of grafts of retroviral vector-corrected fibroblasts secreting high levels of beta-glucuronidase [see comments] Taylor RM, et al. **Nat Med** 1997 Jul;3(7):771–4 . Comment in: Nat Med 1997 Jul;3(7):719–20.

'First trial' of anti-HIV gene therapy [news] **Nature** 1997 Aug 7;388(6642):510

Keeping faith in gene manipulation [editorial] **Nature** 1996 Jul 18;382(6588):191

Muscular dystrophy. Utrophin to the rescue [news; comment] Campbell KP, et al. **Nature** 1996 Nov 28;384(6607):308–9 . Comment on: Nature 1996 Nov 28;384(6607):349–53.

Protective effect of encapsulated cells producing neurotrophic factor CNTF in a monkey model of Huntington's disease. Emerich DF, et al. **Nature** 1997 Mar 27;386(6623):395–9

Korea leaps before it looks over gene therapy guidelines [news] Swinbanks D. **Nature** 1997 May 1;387(6628):6

Amelioration of the dystrophic phenotype of mdx mice using a truncated utrophin transgene [see comments] Tinsley JM, et al. **Nature** 1996 Nov 28;384(6607):349–53. Comment in: Nature 1996 Nov 28;384(6607):308–9.

Gene therapy — promises, problems and prospects [news] Verma IM, et al. **Nature** 1997 Sep 18;389(6648):239–42

Gene panel reprieved after public outcry...[news] Wadman M. **Nature** 1996 Nov 28;384(6607):297

US plan to scrap DNA panel splits genetic researchers [news] Wadman M. **Nature** 1996 Jul 18;382(6588):197

Improved adenoviral vectors for gene therapy of Duchenne muscular dystrophy. Hauser MA, et al. **Neuromuscul Disord** 1997 Jul;7(5):277–83

Use of the dog model for Duchenne muscular dystrophy in gene therapy trials. Howell JM, et al. **Neuromuscul Disord** 1997 Jul;7(5):325–8

Problems and potential for gene therapy in Duchenne muscular dystrophy. Kakulas BA. **Neuromuscul Disord** 1997 Jul;7(5):319–24

The scope of gene therapy in humans: scientific, safety and ethical considerations. Karpati G, et al. **Neuromuscul Disord** 1997 Jul;7(5):273–6 (30 ref.)

Gene therapy for murine mucopolysaccharidosis type VII. Sands MS, et al. **Neuromuscul Disord** 1997 Jul;7(5):352–60 (69 ref.)

Revertant fibres: a possible genetic therapy for Duchenne muscular dystrophy? Wilton SD, et al. **Neuromuscul Disord** 1997 Jul;7(5):329–35

Novel gene therapeutic approaches for brain tumours. Couraud PO, et al. **Neuropathol Appl Neurobiol** 1996 Oct; 22(5):429–33 (38 ref.)

Treatment with genetically engineered fibroblasts producing NGF or BDNF can accelerate recovery from traumatic spinal cord injury in the adult rat. Kim DH, et al. **Neuroreport** 1996 Sep 2;7(13):2221–5

Antisense oligonucleotides for central nervous system tumors. Hall WA, et al. **Neurosurgery** 1996 Feb; 38(2):376–83 (24 ref.)

Preclinical testing of recombinant adenoviral herpes simplex virus-thymidine kinase gene therapy for central nervous system malignancies. Vincent AJ, et al. **Neurosurgery** 1997 Aug;41(2):442–51; discussion 451–2

Cellular and molecular neurosurgery: pathways from concept to reality—part I: target disorders and concept approaches to gene therapy of the central nervous system. Zlokovic BV, et al. **Neurosurgery** 1997 Apr;40(4):789–803; discussion 803–4 (99 ref.)

Cellular and molecular neurosurgery: pathways from concept to reality—part II: vector systems and delivery methodologies for gene therapy of the central nervous system. Zlokovic BV, et al. **Neurosurgery** 1997 Apr; 40(4):805–12; discussion 812–3 (51 ref.)

Evaluation of beta-globin gene therapy constructs in single copy transgenic mice. Ellis J, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1296–302

Cleavage of collagen RNA transcripts by hammerhead ribozymes in vitro is mutation-specific and shows competitive binding effects. Grassi G, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3451–8

Antisense gene therapy trials underway in patients with CML [news] **Oncology (Huntingt)** 1996 Sep;10(9):1411

Current challenges of gene therapy for prostate cancer. Harrison GS, et al. **Oncology (Huntingt)** 1997 Jun; 11(6):845–50, 856; discussion 856–8, 861 (40 ref.)

Adenoviral-mediated herpes simplex virus thymidine kinase gene transfer: regression of hepatic metastasis of pancreatic tumors. Block A, et al. **Pancreas** 1997 Jul;15(1):25–34

Gene therapy: a status report. Schowalter DB, et al. **Pediatr Ann** 1997 Sep;26(9):562–8

Alternative therapies for children with brain stem gliomas: immunotherapy and gene therapy. Packer RJ. **Pediatr Neurosurg** 1996;24(4):217–22 (21 ref.)

A candidate for cancer gene therapy: MIP-1 alpha gene transfer to an adenocarcinoma cell line reduced tumorigenicity and induced protective immunity in immunocompetent mice. Nakashima E, et al. **Pharm Res** 1996 Dec;13(12):1896–901

Differentiation, differentiation/gene therapy and cancer. Scott RE. **Pharmacol Ther** 1997;73(1):51–65 (152 ref.)

The promise of a new clinical trial—intra-articular IL-1 receptor antagonist. Evans CH, et al. **Proc Assoc Am Physicians** 1996 Jan;108(1):1–5 (34 ref.)

Intrastriatal injection of an adenoviral vector expressing glial-cell-line-derived neurotrophic factor prevents dopaminergic neuron degeneration and behavioral impairment in a rat model of Parkinson disease. Bilang-Bleuel A, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8818–23

Adenovirus-mediated interleukin-12 gene therapy for metastatic colon carcinoma. Caruso M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11302–6

Disappearance of body fat in normal rats induced by adenovirus-mediated leptin gene therapy. Chen G, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14795–9

Results of MDR-1 vector modification trial indicate that granulocyte/macrophage colony-forming unit cells do not contribute to posttransplant hematopoietic recovery following intensive systemic therapy [published erratum appears in Proc Natl Acad Sci U S A 1997 May 13;94(10):5495] Hanania EG, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15346–51

Correction of obesity and diabetes in genetically obese mice by leptin gene therapy. Muzzin P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14804–8

Immune response in human melanoma after transfer of an allogeneic class I major histocompatibility complex gene with DNA-liposome complexes. Nabel GJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15388–93

Gene therapy for human liver disease. Raper SE, et al. **Prog Liver Dis** 1995;13:201–30 (135 ref.)

Development of a hammerhead ribozyme against bcl-2. I. Preliminary evaluation of a potential gene therapeutic agent for hormone-refractory human prostate cancer. Dorai T, et al. **Prostate** 1997 Sep 1;32(4):246–58

Radiopharmaceuticals to monitor gene transfer. Wiebe LI, et al. **Q J Nucl Med** 1997 Jun;41(2):79–89 (66 ref.)

Human gene therapy in gastrointestinal diseases: in vivo and in vitro approaches. Kaiser R, et al. **Recent Results Cancer Res** 1996;142:51–61 (49 ref.)

Signal transduction as target of gene therapy. Moelling K, et al. **Recent Results Cancer Res** 1996;142:63–71 (18 ref.)

Molecular medicine: a primer for clinicians—part IX human gene therapy. Lindahl R. **S D J Med** 1996 Feb;49(2):55–60 (20 ref.)

Gene therapy for cancer. Blaese RM. **Sci Am** 1997 Jun; 276(6):111–5

Overcoming the obstacles to gene therapy. Friedmann T. **Sci Am** 1997 Jun;276(6):96–101

Gene therapy for the nervous system. Ho DY, et al. **Sci Am** 1997 Jun;276(6):116–20

What cloning means for gene therapy. Mirsky S, et al. **Sci Am** 1997 Jun;276(6):122–3

HSV-TK gene transfer into donor lymphocytes for control of allogeneic graft-versus-leukemia [see comments] Bonini C, et al. **Science** 1997 Jun 13;276(5319):1719–24. Comment in: Science 1997 Jun 13;276(5319):1646.

Dopaminergic neurons protected from degeneration by GDNF gene therapy. Choi-Lundberg DL, et al. **Science** 1997 Feb 7;275(5301):838–41

Bcl-2: prolonging life in a transgenic mouse model of familial amyotrophic lateral sclerosis. Kostic V, et al. **Science** 1997 Jul 25;277(5325):559–62

Panel approves gene trial for "normals" [news] [published erratum appears in Science 1997 Apr 11;276(5310):185] Marshall E. **Science** 1997 Mar 14;275(5306):1561

Backup gene may help muscles help themselves [news] Roush W. **Science** 1997 Apr 4;276(5309):35

From science fiction to ethics quandary [news] Vogel G. **Science** 1997 Sep 19;277(5333):1753–4

New lead to safer marrow transplants [news; comment] Wickelgren I. **Science** 1997 Jun 13;276(5319):1646. Comment on: Science 1997 Jun 13;276(5319):1719–24.

Gene therapy and blood cell transplantation. Cuaron LJ, et al. **Semin Oncol Nurs** 1997 Aug;13(3):200–7 (28 ref.)

Gene therapy in pediatric surgery. Brandt ML. **Semin Pediatr Surg** 1996 Aug;5(3):197–205 (78 ref.)

Immunotherapy and gene therapy. Gitlitz BJ, et al. **Semin Urol Oncol** 1996 Nov;14(4):237–43 (51 ref.)

Novel therapies for advanced prostate cancer. Konety BR, et al. **Semin Urol Oncol** 1997 Feb;15(1):33–42 (80 ref.)

Biological principles and clinical development of prostate cancer gene therapy. Sanda MG. **Semin Urol Oncol** 1997 Feb;15(1):43–55 (77 ref.)

Delivery of cytosolic liver arginase into the mitochondrial matrix space: a possible novel site for gene replacement therapy. Wissmann PB, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):489–98

Gene therapy for cerebral vascular disease. Heistad DD, et al. **Stroke** 1996 Sep;27(9):1688–93 (26 ref.)

Gene therapy for liver tumors. Panis Y, et al. **Surg Oncol Clin N Am** 1996 Apr;5(2):461–73 (63 ref.)

Effect of gene therapy with the herpes simplex virus-thymidine kinase gene on hepatic metastasis in murine

colon cancer. Hayashi S, et al. **Surg Today** 1997;27(1):40–3
Adenoviral infection of thyroid cells: a rationale for gene therapy for metastatic thyroid carcinoma. Zeiger MA, et al. **Surgery** 1996 Dec;120(6):921–5
Cardiovascular gene therapy: current concepts. Fox JC. **Ther Drug Monit** 1996 Aug;18(4):410–22 (110 ref.)
Gene therapy for hemophilia A. Connelly S, et al. **Thromb Haemost** 1997 Jul;78(1):31–6 (70 ref.)
Atherosclerotic vascular disease: will folate or gene therapy be useful? Heistad DD, et al. **Trans Am Clin Climatol Assoc** 1996;108:69–76; discussion 76–7 (21 ref.)
Long-term engraftment of precultured post-5-fluorouracil allogeneic marrow in mice conditioned with a nonmyeloablative regimen: relevance for a gene therapy approach to tolerance induction. Hayashi H, et al. **Transpl Immunol** 1996 Mar;4(1):86–90
Gene therapy in transplantation. Knechtle SJ, et al. **Transpl Immunol** 1996 Dec;4(4):257–64 (47 ref.)
Reversal of hyperglycemia in diabetic NOD mice by human proinsulin gene therapy. Kasten-Jolly J, et al. **Transplant Proc** 1997 Jun;29(4):2216–8
Human gene therapy with myoblast transfer. Law PK, et al. **Transplant Proc** 1997 Jun;29(4):2234–7
Immunologic barriers to hepatic adenoviral gene therapy for transplantation. DeMatteo RP, et al. **Transplantation** 1997 Jan 27;63(2):315–9
Use of gene therapy to suppress the antigen-specific immune responses in mice to an HLA antigen. Schumacher IK, et al. **Transplantation** 1996 Sep 27;62(6):831–6
The principles of gene therapy for the nervous system. Karpati G, et al. **Trends Neurosci** 1996 Feb;19(2):49–54 (68 ref.)
The coming of age of the GDNF family and its receptors: gene delivery in a rat Parkinson model may have clinical implications. Olson L. **Trends Neurosci** 1997 Jul;20(7):277–9 (22 ref.)
Arterial gene therapy: a molecular biological perspective for the treatment of arterial ischemia. Asahara T, et al. **Z Kardiol** 1997;86 Suppl 1:65–9 (26 ref.)
[Gene therapy in lung cancer] Ran P, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):270–3 (23 ref.) **(Chi)**
[Acceleration of hematopoietic reconsitution in mice transplanted with syngeneic bone marrow cells by IL-6 gene therapy] Cai R, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):97–101 (Eng. Abstr.) **(Chi)**
[The changes of striatal dopamine levels in the brain in rat models for Parkinson's disease after gene therapy] Tong H, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):490–2 (Eng. Abstr.) **(Chi)**
[Molecular bypass, the application of VEGF to gene therapy of limb ischemia] Zhou A, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):662–6 (Eng. Abstr.) **(Chi)**
[Gene therapy and adenovirus vectors] Zhang D, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1995 Dec; 17(6):470–5 (14 ref.) **(Chi)**
[Expectations of gene therapy in the Czech Republic] Brdička R. **Cas Lek Cesk** 1997 Jan 8;136(1):3–4 **(Cze)**
[Gene therapy of malignant tumors. Prospects of cytokine gene transfer vaccines] Bubeník J. **Cas Lek Cesk** 1997 Jan 8;136(1):17–21 (49 ref.) (Eng. Abstr.) **(Cze)**
[Principles of gene therapy in tumors] Vonka V. **Cas Lek Cesk** 1997 Jan 8;136(1):5–10 (31 ref.) (Eng. Abstr.) **(Cze)**
[Gene therapy of malignant brain tumors (editorial) (see comments)] Astrup J, et al. **Ugeskr Laeger** 1997 Jan 27; 159(5):561. Comment in: Ugeskr Laeger 1997 Apr 28;159(18):2721. **(Dan)**
[Gene therapy of malignant brain tumors? (letter; comment)] Krarup-Hansen A. **Ugeskr Laeger** 1997 Apr 28; 159(18):2721. Comment on: Ugeskr Laeger 1997 Jan 27;159(5):561. **(Dan)**
[Specific control of gene expression by oligonucleotides: from chemistry to clinical aspects] Hélène C. **Ann Pharm Fr** 1997;55(3):95–103 (34 ref.) (Eng. Abstr.) **(Fre)**
[Gene therapy of nervous system diseases in children] Gressens P. **Arch Pediatr** 1996 Nov;3(11):1136–8 (Eng. Abstr.) **(Fre)**
[Gene therapy of primary cancers of the liver: hopes and realities] Ferry N. **Bull Cancer** 1997 Apr;84(4):431–4 (Eng. Abstr.) **(Fre)**
[Reglementation, organization and development of clinical researches in gene and cellular therapy] Bernard A. **C R Seances Soc Biol Fil** 1996;190(1):143–51 (Eng. Abstr.) **(Fre)**
[Experimental gene therapy in models of inflammatory arthritis] Bessis N, et al. **C R Seances Soc Biol Fil** 1996; 190(1):159–63 (14 ref.) (Eng. Abstr.) **(Fre)**
[Gene therapy for hereditary immunodeficiencies] Fischer A, et al. **C R Seances Soc Biol Fil** 1996;190(1):77–93 (54 ref.) (Eng. Abstr.) **(Fre)**
[Gene therapy of neurological diseases] Kahn A, et al. **C R Seances Soc Biol Fil** 1996;190(1):9–11 (Eng. Abstr.) **(Fre)**
[Gene therapy in cystic fibrosis: molecular and cellular aspects] Lehn P. **C R Seances Soc Biol Fil** 1996; 190(1):95–107 (28 ref.) (Eng. Abstr.) **(Fre)**
[Gene therapy in lysosomal diseases] Moullier P, et al. **C R Seances Soc Biol Fil** 1996;190(1):45–51 (18 ref.) (Eng. Abstr.) **(Fre)**
[The "antisense" strategy: a new approach in the development of antineoplastic substances and gene therapy] Hélène C. **J Pharm Belg** 1997 Mar-Apr;52(2):79–85 (29 ref.) **(Fre)**
[1997 Maurice Dérot. Transcriptional regulation of the insulin gene: a step toward gene therapy of diabetes] Cerasi E, et al. **Journ Annu Diabetol Hotel Dieu** 1997;:299–304 (15 ref.) **(Fre)**
[Gene therapy in oncology: applications to lung cancer] Chapiro J, et al. **Rev Mal Respir** 1996 Oct;13(5):467–76 (93 ref.) (Eng. Abstr.) **(Fre)**
[Development of an anti-HIV gene therapy based on the antiviral properties of beta interferon] De Maeyer E, et al. **Transfus Clin Biol** 1997;4(3):281–6 (13 ref.) (Eng. Abstr.) **(Fre)**
[Symposium of the Paul-Martini-Stiftung on "Somatic gene therapy" on November 3-4, 1995, Mainz, Germany. Documentation of the working group lectures, the round table discussion, and state of the art lectures in abstract] Meuer S. **Arzneimittelforschung** 1996 Mar;46(3):335–63 **(Ger)**
[Adenovirus gene therapy for liver metastases of gastrointestinal tumors. Development status and future prospectives] Block A, et al. **Dtsch Med Wochenschr** 1997 May 30;122(22):728–32 (17 ref.) **(Ger)**
[Gene therapy in malignant melanoma. Interview with D. Schadendorf] Schadendorf D. **Hautarzt** 1996 Dec; 47(12):962–4 **(Ger)**
[Adenovirus gene transfer in xenogenic nerve transplantation] Hebebrand D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:289–93 (Eng. Abstr.) **(Ger)**
[Organ transplantation—gene therapy: interactions and transitions] Manns MP. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:367–70 (Eng. Abstr.) **(Ger)**
[Receptor mediated gene transfer in squamous epithelial carcinoma of the head-neck area] Wollenberg B, et al. **Laryngorhinootologie** 1997 Jul;76(7):411–4 (Eng. Abstr.) **(Ger)**
[Somatic gene therapy in squamous epithelial carcinomas of the head-neck area] Wollenberg B, et al. **Laryngorhinootologie** 1996 Jun;75(6):356–62 (42 ref.) (Eng. Abstr.) **(Ger)**
[Possibilities of gene therapy in traumatic and degenerative articular lesions. Current status of experimental and initial clinical applications] Gerich TG, et al. **Orthopade** 1997 May;26(5):450–8 (92 ref.) (Eng. Abstr.) **(Ger)**
[Strategies for gene therapy in cystic fibrosis] Bargon J, et al. **Pneumologie** 1996 Aug;50(8):562–8 (68 ref.) **(Ger)**
[Gene therapy research in cystic fibrosis—lessons from early clinical studies] Coutelle C. **Pneumologie** 1996 Dec;50 Suppl 3:865–6 **(Ger)**
[Gene therapy: development of adenovirus vectors] Siegfried W. **Pneumologie** 1996 Dec;50 Suppl 3:860–4 (31 ref.) **(Ger)**
[Gene therapy with wild-type p53 in lung tumors] Dunst J. **Strahlenther Onkol** 1997 Aug;173(8):431–2 **(Ger)**
[Molecular and cellular mechanisms of arteriosclerosis and restenosis: possibilities of gene therapy] Lüscher TF, et al. **Z Kardiol** 1996 Jul;85(7):495–508 (133 ref.) (Eng. Abstr.) **(Ger)**
[Genetic therapy: reality and hopes] Toren A, et al. **Harefuah** 1997 Apr 15;132(8):555–8 (31 ref.) **(Heb)**
[Gene therapy in cardiovascular medicine: reality or fantasy?] Dal Palù C, et al. **Ann Ital Med Int** 1996 Oct;11 Suppl 2:55S–59S (18 ref.) (Eng. Abstr.) **(Ita)**
[Clinical study of gene therapy for adenosine deaminase deficiency] Sakiyama Y. **Arerugi** 1996 Jul;45(7):621–6 (12 ref.) **(Jpn)**
[Cancer gene therapy by direct intratumoral injection: gene expression and intratumoral pharmacokinetics of plasmid DNA] Nomura T, et al. **Gan To Kagaku Ryoho** 1997 Feb; 24(4):483–8 (6 ref.) (Eng. Abstr.) **(Jpn)**
[Antibody engineering and gene therapy in cancer] Hinoda Y, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Oct; 19(5):453–9 (17 ref.) **(Jpn)**
[Present condition and prospect of gene therapy] Takahisa F. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec; 18(6):578–80 (2 ref.) **(Jpn)**
[Future directions of gene therapy for lung cancer] Hasegawa Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33 Suppl:33–7 (12 ref.) (Eng. Abstr.) **(Jpn)**
[Gene therapy—present status and future prospects] Takaku F. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:25–8 (7 ref.) **(Jpn)**
[The gene therapy for a patient with ADA deficiency; report of the first gene therapy trial in Japan] Ariga T, et al. **Nippon Rinsho** 1997 Jun;55(6):1572–9 (10 ref.) (Eng. Abstr.) **(Jpn)**
[Human gene therapy for lung cancer] Fujiwara T, et al. **Nippon Rinsho** 1997 May;55(5):1296–306 (36 ref.) (Eng. Abstr.) **(Jpn)**
[Gene therapy for genetic disorders of purine metabolism] Hidaka Y. **Nippon Rinsho** 1996 Dec;54(12):3374–8 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Gene therapy for brain tumors] Mizuno M, et al. **Nippon Rinsho** 1997 Jul;55(7):1853–60 (23 ref.) (Eng. Abstr.) **(Jpn)**
[Gastrointestinal cancer and gene therapy] Niitsu Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep;93(9):603–12 (29 ref.) **(Jpn)**
[Gene therapy: expectation and reality] Tamaki H, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):101–3 (0 ref.) **(Jpn)**
[Gene therapy and neurosurgery] Yoshida J. **No Shinkei Geka** 1997 Jun;25(6):495–502 (24 ref.) **(Jpn)**
[Clinical application of gene technology for diagnosis and treatment of leukemia] Hashino S, et al. **Rinsho Byori** 1997 Jan;45(1):58–65 (Eng. Abstr.) **(Jpn)**
[Development of in vivo gene transfer methods towards future gene therapy] Kaneda Y, et al. **Rinsho Byori** 1997 Feb;45(2):99–105 (9 ref.) (Eng. Abstr.) **(Jpn)**
[Gene therapy--present states and future perspectives] Takaku F. **Rinsho Ketsueki** 1996 Jun;37(6):459–63 (6 ref.) **(Jpn)**
[Recombinant fibronectin fragments in stem cell gene therapy] Kato I. **Tanpakushitsu Kakusan Koso** 1997 Jun; 42(8):1296–305 (33 ref.) **(Jpn)**
[Gene therapy: current status and prospects] Shimizu N. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2491–3 (15 ref.) **(Jpn)**
[Modern methods in the treatment of cystic fibrosis] Bush A. **Pediatr Pol** 1996 Jun;71(6):566–72 (25 ref.) **(Pol)**
[Repopulation defect of hematopoietic stem cells after retrovirus transfer of foreign gene] Drize NI, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):75–8 **(Rus)**
[DNA vaccination and gene therapy based on transient expression of nucleic acids in human and animal somatic cells] Debabov VG. **Mol Biol (Mosk)** 1997 Mar-Apr; 31(2):209–15 (72 ref.) **(Rus)**
[Essays on modern molecular genetics from lectures for students of the biology department at Moscow State University. Essay 6. Gene therapy and medicine of the XXI century] Sverdlov ED. **Mol Gen Mikrobiol Virusol** 1997; (2):3–28 **(Rus)**
[On bioethical and legal studies of use of gene therapy] Bochkov NP, et al. **Vestn Ross Akad Med Nauk** 1997; (8):38–40 (11 ref.) (Eng. Abstr.) **(Rus)**
[Nonviral methods of gene transfer in gene therapy] Zhdanov RI, et al. **Vopr Med Khim** 1997 Jan-Feb;43(1):3–12 (100 ref.) (Eng. Abstr.) **(Rus)**
[Current trends in the biological therapy of malignant tumors (editorial)] Khanson KP, et al. **Vopr Onkol** 1996;42(5):7–12 **(Rus)**
[Mutant adenoviruses. A new anticancer strategy] Benítez-Bribiesca L. **Gac Med Mex** 1997 Jan-Feb; 133(1):47–8 **(Spa)**
[Gene transfer into hematopoietic cells: the present and the future] Barquinero Máñez J, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):272–6 (34 ref.) **(Spa)**
[Retrovirus and human diseases: etiologic agents as therapeutic instruments (editorial)] García Hernández B, et al. **Med Clin (Barc)** 1996 Jul 6;107(6):215–7 **(Spa)**
[Gene therapy in neurology. State of the art and future prospects] Duarte RG. **Neurologia** 1995 Dec;10 Suppl 1:56–61 (14 ref.) (Eng. Abstr.) **(Spa)**
[Gene therapy: facts and fiction] Mönckeberg F. **Rev Med Chil** 1996 Feb;124(2):237–47 (56 ref.) (Eng. Abstr.) **(Spa)**
[Manipulation of genes causing diseases] Monckeberg F. **Rev Med Chil** 1996 Mar;124(3):371–6 (28 ref.) (Eng. Abstr.) **(Spa)**
[Gene therapy of glioblastomas] Izquierdo M, et al. **Rev Neurol** 1996 Mar;24(127):325–8 **(Spa)**
[Gene therapy in peripheral vascular disease. A future therapeutic method?] Wahlberg E, et al. **Lakartidningen** 1997 Apr 2;94(14):1276–8, 1283 (79 ref.) **(Swe)**

ADVERSE EFFECTS

Biological response of nonhuman primates to long-term repeated lung exposure to Ad2/CFTR-2. St George JA, et al. **Gene Ther** 1996 Feb;3(2):103–16

ECONOMICS

Financing gene therapy beyond phase II [news] Michael A. **Gene Ther** 1996 Dec;3(12):1035–8
Gene therapy: socioeconomic and ethical issues. A roundtable discussion. Hillman AL, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1139–44
Boehringer networks to get ahead in gene therapy [news] Johnson E. **Nat Biotechnol** 1997 Jan;15(1):12–3
Critical issues in gene therapy commercialization. Persidis A, et al. **Nat Biotechnol** 1997 Jul;15(7):689–90

INSTRUMENTATION

Improved bioresorbable microporous intravascular stents for gene therapy. Ye YW, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M823–7
The Dispatch catheter as a delivery tool for arterial gene transfer. Tahlil O, et al. **Cardiovasc Res** 1997 Jan; 33(1):181–7
Induction of immunodeficiency virus-specific immune responses in rhesus monkeys following gene gun-mediated DNA vaccination. Fuller DH, et al. **J Med Primatol** 1996 Jun;25(3):236–41
Transplantation of cells in an immunoisolation device for gene therapy. Carr-Brendel VE, et al. **Methods Mol Biol** 1997;63:373–87
Retroviral transduction of peripheral blood leukocytes in a hollow-fiber bioreactor [see comments] Shankar R, et al. **Transfusion** 1997 Jul;37(7):685–90. Comment in: Transfusion 1997 Jul;37(7):685–90.

GENE THERAPY

LEGISLATION & JURISPRUDENCE

Gene therapy: regulatory issues and international approaches to regulation. Cohen-Haguenauer O.
Curr Opin Biotechnol 1997 Jun;8(3):361–9 (24 ref.)

Addendum to the points to consider in human somatic cell and gene therapy (1991). Epstein S. **Hum Gene Ther** 1996 Jun 10;7(9):1181–90

Human fetal gene therapy: moral and ethical questions. Fletcher JC, et al. **Hum Gene Ther** 1996 Aug 20; 7(13):1605–14

Public oversight is necessary if human gene therapy is to progress [editorial; comment] Zallen DT.
Hum Gene Ther 1996 May 1;7(7):795–7. Comment on: Hum Gene Ther 1995 Nov;6(11):1361–2.

Novartis licenses gene therapy to avoid monopoly [news] Glaser V. **Nat Biotechnol** 1997 Feb;15(2):118–9

Gene therapy and the 14th century Karelians [letter; comment] Jex EA, et al. **Nat Biotechnol** 1997 Apr;15(4):299 . Comment on: Nat Biotechnol 1997 Feb;15(2):109.

Gene therapist accused of fraud to seek redress in German court [news] Schiermeier Q. **Nature** 1997 Sep 11; 389(6647):105

[Cellular therapy] Bourel M. **Bull Acad Natl Med** 1996 Apr; 180(4):885–6 **(Fre)**

METHODS

On the strategy of using nonviral carriers in cancer gene therapy. Sochanik A, et al. **Acta Biochim Pol** 1996; 43(2):293–300 (47 ref.)

Gene transfer of suicide genes for the treatment of malignant gliomas: efficacy, limitations, and perspectives for a combined immunotherapy. Benedetti S, et al.
Acta Neurochir Suppl (Wien) 1997;68:100–4 (23 ref.)

Gene therapy in brain tumours: implications of the size of glioblastoma on its curability. Izquierdo M, et al.
Acta Neurochir Suppl (Wien) 1997;68:111–7

Anti-angiogenic gene therapy of malignant glioma. Stratmann A, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:105–10 (30 ref.)

Scientific, logistical, and ethical issues related to creation of a stem cell repository for use in experimental trials of gene therapy for AIDS. Fraser JK, et al.
AIDS Res Hum Retroviruses 1997 Jul 20;13(11):905–7

Recent advances in breast cancer research: from genes to management. Hendrix MJ, et al. **Am J Pathol** 1997 Sep; 151(3):883–8

Molecular biology and medicine. A primer for the clinician. Bello EA, et al. **Anesthesiology** 1996 Dec;85(6):1462–78 (55 ref.)

Gene transfer in haematological malignancy. Brenner MK. **Ann Med** 1996 Dec;28(6):491–7 (56 ref.)

Possibilities of gene therapies for cancer [editorial] Lashford LS. **Ann Med** 1997 Feb;29(1):1–4 (36 ref.)

Gene therapy and cell engineering. Goldspink G.
Ann R Coll Surg Engl 1997 Jul;79(4):245–9 (0 ref.)

Enhancement of gene therapy specificity for diffuse colon carcinoma liver metastases with recombinant herpes simplex virus. Carroll NM, et al. **Ann Surg** 1996 Sep; 224(3):323–9; discussion 329–30

Pancreatic carcinoma cell killing via adenoviral mediated delivery of the herpes simplex virus thymidine kinase gene. Rosenfeld ME, et al. **Ann Surg** 1997 May;225(5):609–18; discussion 618–20

Gene therapy of metastatic pancreas cancer with intraperitoneal injections of concentrated retroviral herpes simplex thymidine kinase vector supernatant and ganciclovir. Yang L, et al. **Ann Surg** 1996 Sep; 224(3):405–14; discussion 414–7

Gene transfer to neurons using herpes simplex virus-based vectors. Fink DJ, et al. **Annu Rev Neurosci** 1996;19:265–87 (111 ref.)

Somatic gene therapy and its implications in melanoma treatment. Möller P, et al. **Arch Dermatol Res** 1997 Jan; 289(2):71–7 (67 ref.)

Microencapsulation and transplantation of genetically engineered cells: a new approach to somatic gene therapy. Basic D, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 May; 24(3):219–55

In vivo transfer efficiency of antisense oligonucleotides into the myocardium using HVJ-liposome method. Aoki M, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):540–5

Adenovirus-mediated gene therapy of gastric carcinoma using cancer-specific gene expression in vivo. Tanaka T, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):775–9

Retroviral-mediated gene transfer into murine and human skeletal muscle for the correction of dystrophin deficiency. Fassati A, et al. **Biochem Soc Trans** 1996 May;24(2):275S

Targeted gene therapy for cancer: herpes simplex virus thymidine kinase gene-mediated cell killing leads to anti-tumour immunity that can be augmented by co-expression of cytokines in the tumour cells. Vile RG, et al. **Biochem Soc Trans** 1997 May;25(2):717–22 (51 ref.)

Cationic liposome-mediated expression of HIV-regulated luciferase and diphtheria toxin a genes in HeLa cells infected with or expressing HIV. Konopka K, et al.
Biochim Biophys Acta 1997 Apr 24;1356(2):185–97

Strategies for hematopoietic stem cell gene therapy: insights from computer simulation studies. Abkowitz JL, et al.
Blood 1997 May 1;89(9):3192–8

Cytokine prestimulation as a gene therapy strategy: implications for using the MDR1 gene as a dominant selectable marker. Blau CA, et al. **Blood** 1997 Jan 1; 89(1):146–54

Efficient in vivo marking of primary CD4+ T lymphocytes in nonhuman primates using a gibbon ape leukemia virus-derived retroviral vector. Bunnell BA, et al.
Blood 1997 Mar 15;89(6):1987–95

Adenoviral vectors in hematology: purging, stem cell gene transfer, or both [letter; comment] Wroblewski JM, et al. **Blood** 1997 Jun 15;89(12):4664–5. Comment on: Blood 1996 Jun 15;87(12):5032–9.

Therapy of murine mammary carcinoma metastasis with interferon gamma and MHC gene-transduced tumour cells. Nanni P, et al. **Br J Cancer** 1996 Nov;74(10):1564–9

Genetic treatment of the haemoglobinopathies: recombinations and new combinations. Sadelain M.
Br J Haematol 1997 Aug;98(2):247–53 (63 ref.)

Genes in diagnosis and therapy. Kinnon C.
Br J Hosp Med 1996 Aug 21–Sep 3;56(4):132–5 (14 ref.)

Somatic gene therapy. Thrasher A. **Br J Hosp Med** 1997 Apr 2–15;57(7):351

Development of gene therapy for prostate cancer using a novel promoter of prostate-specific antigen. Dannull J, et al. **Br J Urol** 1997 Mar;79 Suppl 1:97–103 (49 ref.)

Gene therapy for prostate cancer. Sikora K, et al.
Br J Urol 1997 Apr;79 Suppl 2:64–8 (20 ref.)

Potential use of herpes simplex virus (HSV) vectors for gene therapy of neurological disorders. Kennedy PG. **Brain** 1997 Jul;120 (Pt 7):1245–59 (80 ref.)

Novel costimulators in the immune gene therapy of cancer. Galea-Lauri J, et al. **Cancer Gene Ther** 1996 May-Jun; 3(3):202–14 (133 ref.)

Enzyme/prodrug gene therapy approach for breast cancer using a recombinant adenovirus expressing Escherichia coli cytosine deaminase. Li Z, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):113–7

Efficacy of p53 adenovirus-mediated gene therapy against human breast cancer xenografts. Nielsen LL, et al.
Cancer Gene Ther 1997 Mar-Apr;4(2):129–38

Plasmid DNA gene therapy: studies with the human interleukin-2 gene in tumor cells in vitro and in the murine B16 melanoma model in vivo. Parker SE, et al.
Cancer Gene Ther 1996 May-Jun;3(3):175–85

Recombinant vaccinia expressing interleukin-2 for cancer gene therapy. Qin H, et al. **Cancer Gene Ther** 1996 May-Jun;3(3):163–7

Escherichia coli gpt gene sensitizes rat glioma cells to killing by 6-thioxanthine or 6-thioguanine. Tamiya T, et al.
Cancer Gene Ther 1996 May-Jun;3(3):155–62

Mutant SV40 large T antigen as a therapeutic agent for HER-2/neu-overexpressing ovarian cancer. Xing X, et al.
Cancer Gene Ther 1996 May-Jun;3(3):168–74

Gene-modified tumor cells as cellular vaccine. Baskar S.
Cancer Immunol Immunother 1996 Nov;43(3):165–73 (96 ref.)

Analysis of Pmel17/gp100 expression in primary human tissue specimens: implications for melanoma immuno- and gene-therapy. Wagner SN, et al.
Cancer Immunol Immunother 1997 Jun;44(4):239–47

Expression of Fas-estrogen receptor fusion protein induces cell death in pancreatic cancer cell lines. Kawaguchi Y, et al. **Cancer Lett** 1997 Jun 3;116(1):53–9

Antisense approaches to the gene therapy of cancer--'Recnac'. Gibson I. **Cancer Metastasis Rev** 1996 Sep;15(3):287–99 (73 ref.)

Direct cell killing by suicide genes. Martin LA, et al.
Cancer Metastasis Rev 1996 Sep;15(3):301–16 (76 ref.)

Gene therapy for cancer, the course ahead. Vile RG.
Cancer Metastasis Rev 1996 Sep;15(3):403–10 (52 ref.)

Vectors for cancer gene therapy. Zhang J, et al.
Cancer Metastasis Rev 1996 Sep;15(3):385–401 (110 ref.)

Adenovirus-mediated expression of PML suppresses growth and tumorigenicity of prostate cancer cells. He D, et al.
Cancer Res 1997 May 15;57(10):1868–72

Osteocalcin promoter-based toxic gene therapy for the treatment of osteosarcoma in experimental models. Ko SC, et al. **Cancer Res** 1996 Oct 15;56(20):4614–9

Gene-directed enzyme prodrug therapy with a mustard prodrug/carboxypeptidase G2 combination. Marais R, et al. **Cancer Res** 1996 Oct 15;56(20):4735–42

An in vitro nucleoside analog screening method for cancer gene therapy. Evrard A, et al. **Cell Biol Toxicol** 1996 Dec; 12(4–6):345–50

First human myoblast transfer therapy continues to show dystrophin after 6 years. Law PK, et al.
Cell Transplant 1997 Jan-Feb;6(1):95–100

Pulmonary cytokine gene therapy. Adenoviral-mediated murine interferon gene transfer compartmentally activates alveolar macrophages and enhances bacterial clearance. Kolls JK, et al. **Chest** 1997 Jun;111(6 Suppl):104S

A defective herpes simplex virus vector system for gene delivery into the brain: comparison with alternative gene delivery systems and usefulness for gene therapy. Neve RL, et al. **Clin Neurosci** 1995–96;3(5):262–7 (90 ref.)

Adenovirus for neurodegenerative diseases: in vivo strategies and ex vivo gene therapy using human neural progenitors. Sabaté O, et al. **Clin Neurosci** 1995–96;3(5):317–21 (42 ref.)

Multipotent neural progenitor or stem-like cells may be uniquely suited for therapy for some neurodegenerative conditions. Snyder EY, et al. **Clin Neurosci** 1995–96; 3(5):310–6 (43 ref.)

Use of viral vectors to promote neuroregeneration. Verhaagen J, et al. **Clin Neurosci** 1995–96;3(5):275–83 (59 ref.)

Gene therapy for diabetes mellitus [editorial] Docherty K.
Clin Sci (Colch) 1997 Apr;92(4):321–30 (69 ref.)

Oncogene-initiated aberrant signaling engenders the metastatic phenotype: synergistic transcription factor interactions are targets for cancer therapy. Denhardt DT.
Crit Rev Oncog 1996;7(3–4):261–91 (238 ref.)

T-cell gene therapy. Hege KM, et al.
Curr Opin Biotechnol 1996 Dec;7(6):629–34 (53 ref.)

Gene therapy strategies for novel cancer therapeutics. Rosenfeld ME, et al. **Curr Opin Oncol** 1996 Jan;8(1):72–7 (73 ref.)

The present and future role of gene therapy in the newborn. Tanswell AK, et al. **Curr Opin Pediatr** 1997 Apr;9(2):141–5 (30 ref.)

Immunostimulatory cytokines in somatic cells and gene therapy of cancer. Mackensen A, et al.
Cytokine Growth Factor Rev 1997 Jun;8(2):119–28 (84 ref.)

DNA for genetic vaccination and therapy. Moelling K.
Cytokines Cell Mol Ther 1997 Jun;3(2):127–35 (42 ref.)

Cutaneous gene therapy. Khavari PA, et al.
Dermatol Clin 1997 Jan;15(1):27–35 (54 ref.)

Nonmyristoylated MARCKS complements some but not all of the developmental defects associated with MARCKS deficiency in mice. Swierczynski SL, et al. **Dev Biol** 1996 Oct 10;179(1):135–47

Angiogenesis for revascularization of ischaemic tissues [editorial] Isner JM. **Eur Heart J** 1997 Jan;18(1):1–2

Protective immunization with plasmid DNA containing the outer surface lipoprotein A gene of Borrelia burgdorferi is independent of an eukaryotic promoter. Simon MM, et al. **Eur J Immunol** 1996 Dec;26(12):2831–40

Treatment of Parkinson's disease. Symptomatic cell therapies: cells as biological minipumps. Zurn AD, et al.
Eur Neurol 1996;36(6):405–8 (40 ref.)

Gene transfer into the glomerulus by the hemagglutinating virus of Japan-liposome method. Imai E, et al.
Exp Nephrol 1997 Mar-Apr;5(2):112–7 (30 ref.)

Therapeutic intervention in glomerulonephritis by oligonucleotides. Kashihara N, et al. **Exp Nephrol** 1997 Mar-Apr;5(2):126–31 (29 ref.)

Gene delivery into the glomerulus via mesangial cell vectors. Kitamura M. **Exp Nephrol** 1997 Mar-Apr;5(2):118–25 (40 ref.)

Liposome-mediated gene transfer into the tubules. Lien YH, et al. **Exp Nephrol** 1997 Mar-Apr;5(2):132–6 (22 ref.)

Gene transfer into kidney tubules and vasculature by adenoviral vectors. Sukhatme VP, et al. **Exp Nephrol** 1997 Mar-Apr;5(2):137–43 (20 ref.)

Practical aspects of the development of ex vivo and in vivo gene therapy for Parkinson's disease. Bankiewicz KS, et al. **Exp Neurol** 1997 Mar;144(1):147–56 (62 ref.)

Stereotactic procedures for molecular neurosurgery. Kelly PJ. **Exp Neurol** 1997 Mar;144(1):157–9 (11 ref.)

Transfectable and transplantable postmitotic human neurons: a potential "platform" for gene therapy of nervous system diseases. Trojanowski JQ, et al. **Exp Neurol** 1997 Mar; 144(1):92–7 (36 ref.)

The packaging capacity of adeno-associated virus (AAV) and the potential for wild-type-plus AAV gene therapy vectors. Hermonat PL, et al. **FEBS Lett** 1997 Apr 21; 407(1):78–84

Survival of grafts of genetically modified cardiac myocytes transfected with FITC-labeled oligodeoxynucleotides and the beta-galactosidase gene in the noninfarcted area, but not the myocardial infarcted area. Aoki M, et al.
Gene Ther 1997 Feb;4(2):120–7

Nitroreductase activation of CB1954--an alternative 'suicide' gene system [editorial; comment] Bailey SM, et al.
Gene Ther 1997 Feb;4(2):80–1. Comment on: Gene Ther 1997 Feb;4(2):93–100. Comment on: Gene Ther 1997 Feb;4(2):101–10.

Cancer vaccines in gene therapy [editorial] Blankenstein T, et al. **Gene Ther** 1996 Feb;3(2):95–6

Studies on the effect of the combined expression of anti-tat and anti-rev genes on HIV-1 replication. Caputo A, et al. **Gene Ther** 1997 Apr;4(4):288–95

Pathogenic lymphoid cells engineered to express TGF beta 1 ameliorate disease in a collagen-induced arthritis model. Chernajovsky Y, et al. **Gene Ther** 1997 Jun;4(6):553–9

Selective cell ablation in transgenic mice expression E. coli nitroreductase [see comments] Clark AJ, et al.
Gene Ther 1997 Feb;4(2):101–10. Comment in: Gene Ther 1997 Feb;4(2):80–1.

Mini-dystrophin gene transfer in mdx4cv diaphragm muscle fibers increases sarcolemmal stability. Decrouy A, et al.
Gene Ther 1997 May;4(5):401–8

The importance of epidermal stem cells in keratinocyte-mediated gene therapy [editorial] De Luca M, et al. **Gene Ther** 1997 May;4(5):381–3

Gene therapy strategies for asthma. Demoly P, et al.
Gene Ther 1997 Jun;4(6):507–16 (95 ref.)

In vitro correction of iduronate-2-sulfatase deficiency by adenovirus-mediated gene transfer. Di Francesco C, et al.
Gene Ther 1997 May;4(5):442–8

Suicide genes and bystander killing: local and distant effects [editorial] Dilber MS, et al. **Gene Ther** 1997 Apr;4(4):273–4

E1A RNA transcripts amplify adenovirus-mediated tumor reduction. Dion LD, et al. **Gene Ther** 1996 Nov;

3(11):1021–5
A demonstration using mouse models that successful gene therapy for cystic fibrosis requires only partial gene correction. Dorin JR, et al. **Gene Ther** 1996 Sep; 3(9):797–801
The expression of bacterial nitroreductase in transgenic mice results in specific cell killing by the prodrug CB1954 [see comments] Drabek D, et al. **Gene Ther** 1997 Feb; 4(2):93–100. Comment in: Gene Ther 1997 Feb;4(2):80–1.
Intracellular inhibition of HIV-1 replication using a dual protein- and RNA-based strategy. Duan L, et al. **Gene Ther** 1997 Jun;4(6):533–43
Gene therapy of experimental malignant mesothelioma using adenovirus vectors encoding the HSVtk gene. Esandi MC, et al. **Gene Ther** 1997 Apr;4(4):280–7
Improved efficiency of arterial gene transfer by use of poloxamer 407 as a vehicle for adenoviral vectors. Feldman LJ, et al. **Gene Ther** 1997 Mar;4(3):189–98
Is IL-15 a suitable candidate for cancer gene therapy? [editorial] Ferrini S, et al. **Gene Ther** 1996 Aug;3(8):656–7
Anaerobic bacteria as a delivery system for cancer gene therapy: in vitro activation of 5-fluorocytosine by genetically engineered clostridia [published erratum appears in Gene Ther 1996 Aug;3(8):741] Fox ME, et al. **Gene Ther** 1996 Feb;3(2):173–8
Cationic liposome-mediated gene transfer. Gao X, et al. **Gene Ther** 1995 Dec;2(10):710–22 (92 ref.)
Potential of Varicella zoster virus thymidine kinase as a suicide gene in breast cancer cells. Grignet-Debrus C, et al. **Gene Ther** 1997 Jun;4(6):560–9
Prophylactic gene therapy for cancer. Hargest R, et al. **Gene Ther** 1996 Feb;3(2):97–102 (57 ref.)
Mechanism of bystander effect' killing in the herpes simplex thymidine kinase gene therapy model of cancer treatment. Ishii-Morita H, et al. **Gene Ther** 1997 Mar;4(3):244–51
Human malignant brain tumor response to herpes simplex thymidine kinase (HSVtk)/ganciclovir gene therapy. Izquierdo M, et al. **Gene Ther** 1996 Jun;3(6):491–5
Gene therapy of mitochondrial diseases using human cytoplasts. Kagawa Y, et al. **Gene Ther** 1997 Jan;4(1):6–10 (28 ref.)
Circumventing the immune response to adenovirus-mediated gene therapy. Kass-Eisler A, et al. **Gene Ther** 1996 Feb; 3(2):154–62
Macrophage depletion increases the safety, efficacy and persistence of adenovirus-mediated gene transfer in vivo. Kuzmin AI, et al. **Gene Ther** 1997 Apr;4(4):309–16
Kidney-targeted liposome-mediated gene transfer in mice. Lai LW, et al. **Gene Ther** 1997 May;4(5):426–31
Delivery of a PCR amplified DNA fragment into cells: a model for using synthetic genes for gene therapy. Li S, et al. **Gene Ther** 1997 May;4(5):449–54
Site-specific integration by adeno-associated virus: a basis for a potential gene therapy vector [editorial] Linden RM, et al. **Gene Ther** 1997 Jan;4(1):4–5
Factors controlling the efficiency of cationic lipid-mediated transfection in vivo via intravenous administration. Liu F, et al. **Gene Ther** 1997 Jun;4(6):517–23
In vivo gene therapy of malignant tumours with heat shock protein-65 gene. Lukacs KV, et al. **Gene Ther** 1997 Apr; 4(4):346–50
Lipofection of a cDNA plasmid containing the dystrophin gene lowers intracellular free calcium and calcium leak channel activity in mdx myotubes. McCarter GC, et al. **Gene Ther** 1997 May;4(5):483–7
Immunization with a plasmid expressing pneumococcal surface protein A (PspA) can elicit protection against fatal infection with Streptococcus pneumoniae. McDaniel LS, et al. **Gene Ther** 1997 Apr;4(4):375–7
A novel, membrane receptor-based retroviral vector for Fanconi anemia group C gene therapy. Machl AW, et al. **Gene Ther** 1997 Apr;4(4):339–45
Gene therapy for malignant gliomas using replication incompetent retroviral and adenoviral vectors encoding the cytochrome P450 2B1 gene together with cyclophosphamide. Manome Y, et al. **Gene Ther** 1996 Jun; 3(6):513–20
Intrabodies: turning the humoral immune system outside in for intracellular immunization. Marasco WA. **Gene Ther** 1997 Jan;4(1):11–5 (61 ref.)
Differential toxicity of ganciclovir for rat neurons and astrocytes in primary culture following adenovirus-mediated transfer of the HSVtk gene. Maron A, et al. **Gene Ther** 1997 Jan;4(1):25–31
Co-expression of the herpes simplex virus thymidine kinase gene potentiates methotrexate resistance conferred by transfer of a mutated dihydrofolate reductase gene. Mineishi S, et al. **Gene Ther** 1997 Jun;4(6):570–6
Gene therapy for Parkinson's disease: current knowledge and future perspective [editorial] Mouradian MM, et al. **Gene Ther** 1997 Jun;4(6):504–6
Combination gene transfer to potentiate tumor regression. Ohno T, et al. **Gene Ther** 1997 Apr;4(4):361–6
Gene therapy against an experimental glioma using adeno-associated virus vectors. Okada H, et al. **Gene Ther** 1996 Nov;3(11):957–64
Evidence for safety and efficacy of DOTAP cationic liposome mediated CFTR gene transfer to the nasal epithelium of patients with cystic fibrosis. Porteous DJ, et al. **Gene Ther** 1997 Mar;4(3):210–8
CFTR gene transduction in neonatal rabbits using an adeno-associated virus (AAV) vector. Rubenstein RC, et al. **Gene Ther** 1997 May;4(5):384–92
Phase I study of immunotherapy of hepatic metastases of colorectal carcinoma by direct gene transfer of an allogeneic histocompatibility antigen, HLA-B7. Rubin J, et al. **Gene Ther** 1997 May;4(5):419–25
Antibody to CD40 ligand inhibits both humoral and cellular immune responses to adenoviral vectors and facilitates repeated administration to mouse airway. Scaria A, et al. **Gene Ther** 1997 Jun;4(6):611–7
Adenovirus-mediated gene transfer into monocyte-derived macrophages of patients with X-linked chronic granulomatous disease: ex vivo correction of deficient respiratory burst. Schneider SD, et al. **Gene Ther** 1997 Jun; 4(6):524–32
Antiretroviral effect of a gag-RNase HI fusion gene. Schumann G, et al. **Gene Ther** 1997 Jun;4(6):593–9
Incorporation of beta-globin untranslated regions into a Sindbis virus vector for augmentation of heterologous mRNA expression. Strong TV, et al. **Gene Ther** 1997 Jun; 4(6):624–7
Characterization of liposome-mediated gene delivery: expression, stability and pharmacokinetics of plasmid DNA. Thierry AR, et al. **Gene Ther** 1997 Mar;4(3):226–37
In vivo gene transfer of insulin gene into neonatal rats by the HVJ-liposome method resulted in sustained transgene expression. Tomita N, et al. **Gene Ther** 1996 Jun;3(6):477–82
Copy number-dependent expression of a YAC-cloned human CFTR gene in a human epithelial cell line. Vassaux G, et al. **Gene Ther** 1997 Jun;4(6):618–23
The bystander effect exerted by tumor cells expressing the herpes simplex virus thymidine kinase (HSVtk) gene is dependent on connexin expression and cell communication via gap junctions. Vrionis FD, et al. **Gene Ther** 1997 Jun; 4(6):577–85
Employment of the mdr1 promoter for the chemotherapy-inducible expression of therapeutic genes in cancer gene therapy. Walther W, et al. **Gene Ther** 1997 Jun;4(6):544–52
A packaging cell line for propagation of recombinant adenovirus vectors containing two lethal gene-region deletions. Wang Q, et al. **Gene Ther** 1995 Dec;2(10):775–83
Xenogeneic ICAM-1 gene transfer suppresses tumorigenicity and generates protective antitumor immunity. Wei K, et al. **Gene Ther** 1996 Jun;3(6):531–41
Intracellular application of hairpin ribozyme genes against hepatitis B virus. Welch PJ, et al. **Gene Ther** 1997 Jul; 4(7):736–43
An intracellular anti-erbB-2 single-chain antibody is specifically cytotoxic to human breast carcinoma cells overexpressing erbB-2. Wright M, et al. **Gene Ther** 1997 Apr;4(4):317–22
Safety studies of the intraperitoneal injection of E1A--liposome complex in mice. Xing X, et al. **Gene Ther** 1997 Mar;4(3):238–43
Expression of full-length human dystrophin cDNA in mdx mouse muscle by HVJ-liposome injection. Yanagihara I, et al. **Gene Ther** 1996 Jun;3(6):549–53
A continuous intracerebral gene delivery system for in vivo liposome-mediated gene therapy. Zhu J, et al. **Gene Ther** 1996 Jun;3(6):472–6
Transductional efficacy and safety of an intraperitoneally delivered adenovirus encoding an anti-erbB-2 intracellular single-chain antibody for ovarian cancer gene therapy. Deshane J, et al. **Gynecol Oncol** 1997 Mar;64(3):378–85
Future directions for the treatment of colorectal carcinoma. Eck SL. **Hematol Oncol Clin North Am** 1997 Aug; 11(4):795–810 (74 ref.)
Nonviral gene transfer to the liver. Thompson AR, et al. **Hepatology** 1996 Dec;24(6):1541–2
Gene therapy: targeting tumor cells for destruction. Rabkin SD, et al. **Hum Cell** 1996 Dec;9(4):265–76 (72 ref.)
Gene therapy for amyotrophic lateral sclerosis (ALS) using a polymer encapsulated xenogenic cell line engineered to secrete hCNTF. Aebischer P, et al. **Hum Gene Ther** 1996 May 1;7(7):851–60
A phase I study of recombinant adenovirus vector-mediated intraperitoneal delivery of herpes simplex virus thymidine kinase (HSV-TK) gene and intravenous ganciclovir for previously treated ovarian and extraovarian cancer patients. Alvarez RD, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):597–613
Gene therapy for peritoneal dissemination of pancreatic cancer by liposome-mediated transfer of herpes simplex virus thymidine kinase gene. Aoki K, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1105–13
Complete restoration of glucocerebrosidase deficiency in Gaucher fibroblasts using a bicistronic MDR retrovirus and a new selection strategy. Aran JM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2165–75
Gene therapy in lung transplantation: feasibility of ex vivo adenovirus-mediated gene transfer to the graft. Chapelier A, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1837–45
Systematic analysis of repeated gene delivery into animal lungs with a recombinant adenovirus vector. Dong JY, et al. **Hum Gene Ther** 1996 Feb 10;7(3):319–31
A concentrated and stable aerosol formulation of cationic lipid:DNA complexes giving high-level gene expression in mouse lung. Eastman SJ, et al. **Hum Gene Ther** 1997 Apr 10;8(6):765–73
Retroviral vectors efficiently transduce basal and secretory airway epithelial cells in vitro resulting in persistent gene expression in organotypic culture. Halbert CL, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1871–81
Systemic delivery of human growth hormone or human factor IX in dogs by reintroduced genetically modified autologous bone marrow stromal cells. Hurwitz DR, et al. **Hum Gene Ther** 1997 Jan 20;8(2):137–56
Evidence for the systemic delivery of a transgene product from salivary glands. Kagami H, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2177–84
A novel gene therapy strategy for elimination of prostate carcinoma cells from human bone marrow. Kim M, et al. **Hum Gene Ther** 1997 Jan 20;8(2):157–70
Molecular therapy with recombinant p53 adenovirus in an androgen-independent, metastatic human prostate cancer model. Ko SC, et al. **Hum Gene Ther** 1996 Sep 10; 7(14):1683–91
Human fetal astrocytes as an ex vivo gene therapy vehicle for delivering biologically active nerve growth factor. Lin Q, et al. **Hum Gene Ther** 1997 Feb 10;8(3):331–9
Efficacy of antitat gene therapy in the presence of high multiplicity infection and inflammatory cytokines. Lisziewicz J, et al. **Hum Gene Ther** 1996 Dec 1; 7(18):2209–16
Gut epithelial cells as targets for gene therapy of hemophilia. Lozier JN, et al. **Hum Gene Ther** 1997 Aug 10; 8(12):1481–90
Safety of airway gene transfer with Ad2/CFTR2: aerosol administration in the nonhuman primate. McDonald RJ, et al. **Hum Gene Ther** 1997 Mar 1;8(4):411–22
Transduction of the herpes thymidine kinase gene into premalignant murine mammary epithelial cells renders subsequent breast cancers responsive to ganciclovir therapy. Moolten FL, et al. **Hum Gene Ther** 1996 Jun 20; 7(10):1197–204
Molecular analysis of T lymphocyte-directed gene therapy for adenosine deaminase deficiency: long-term expression in vivo of genes introduced with a retroviral vector. Mullen CA, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1123–9
In vivo retrovirus-mediated gene transfer into multiple hematopoietic lineages in rabbits without preconditioning. Nelson DM, et al. **Hum Gene Ther** 1997 Apr 10;8(6):747–54
Use of von Willebrand factor promoter to transduce suicidal gene to human endothelial cells, HUVEC. Ozaki K, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1483–90
Granulocyte-macrophage colony-stimulating factor and B7-2 combination immunogene therapy in an allogeneic Hu-PBL-SCID/beige mouse-human glioblastoma multiforme model. Parney IF, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1073–85
Development of amphotropic murine retrovirus vectors resistant to inactivation by human serum. Pensiero MN, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1095–101
A novel multiply-mutated HSV-1 strain for the treatment of human brain tumors. Pyles RB, et al. **Hum Gene Ther** 1997 Mar 20;8(5):533–44
Gene transfer and therapy with adenoviral vector in rats with diethylnitrosamine-induced hepatocellular carcinoma. Qian C, et al. **Hum Gene Ther** 1997 Feb 10;8(3):349–58
Cancer gene therapy using tumor cells infected with recombinant vaccinia virus expressing GM-CSF. Qin H, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1853–60
Killing Epstein-Barr virus-positive B lymphocytes by gene therapy: comparing the efficacy of cytosine deaminase and herpes simplex virus thymidine kinase. Rogers RP, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2235–45
Basis of pulmonary toxicity associated with cationic lipid-mediated gene transfer to the mammalian lung. Scheule RK, et al. **Hum Gene Ther** 1997 Apr 10; 8(6):689–707
A phase I study of adenovirus mediated gene transfer of interleukin 2 cDNA into metastatic breast cancer or melanoma. Stewart AK, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1403–14
Targeted killing of migrating glioma cells by injection of HTK-modified glioma cells. Tamura M, et al. **Hum Gene Ther** 1997 Mar 1;8(4):381–91
Tissue-engineered skeletal muscle organoids for reversible gene therapy. Vandenburgh H, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2195–200
Characterization of vectors for gene therapy formed by self-assembly of DNA with synthetic block co-polymers. Wolfert MA, et al. **Hum Gene Ther** 1996 Nov 10; 7(17):2123–33
Parenteral gene therapy with p53 inhibits human breast tumors in vivo through a bystander mechanism without evidence of toxicity. Xu M, et al. **Hum Gene Ther** 1997 Jan 20;8(2):177–85
Gene therapy for metastatic brain tumors by vaccination with granulocyte-macrophage colony-stimulating factor-transduced tumor cells. Yu JS, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1065–72
Gene delivery to the epidermis. Trainer AH, et al. **Hum Mol Genet** 1997;6(10):1761–7 (63 ref.)
Antisense inhibition and adeno-associated viral vector delivery for reducing hypertension. Phillips MI. **Hypertension** 1997 Jan;29(1 Pt 2):177–87
Inhibition of the growth of pre-established subcutaneous tumor nodules of human prostate cancer cells by single injection of the recombinant adenovirus p53 expression vector. Asgari K, et al. **Int J Cancer** 1997 May 2; 71(3):377–82
Inhibition of tumorigenicity in lung adenocarcinoma cells by c-erbB-2 antisense expression. Casalini P, et al.

Int J Cancer 1997 Aug 7;72(4):631–6
Ribozyme–mediated cancer gene therapy. Irie A, et al. **Int J Urol** 1997 Jul;4(4):329–37 (90 ref.)
Complexes of adenovirus with polycationic polymers and cationic lipids increase the efficiency of gene transfer in vitro and in vivo. Fasbender A, et al. **J Biol Chem** 1997 Mar 7;272(10):6479–89
Active specific immunotherapy of pulmonary metastasis with vaccinia melanoma oncolysate prepared from granulocyte/macrophage–colony–stimulating–factor–gene–encoded vaccinia virus. Ju DW, et al. **J Cancer Res Clin Oncol** 1996;122(12):716–22
Oral tolerization to adenoviral antigens permits long–term gene expression using recombinant adenoviral vectors. Ilan Y, et al. **J Clin Invest** 1997 Mar 1;99(5):1098–106
Different T helper cell types and antibody isotypes generated by saline and gene gun DNA immunization. Feltquate DM, et al. **J Immunol** 1997 Mar 1;158(5):2278–84
Gene therapy with angiogenic factors: a new potential approach to the treatment of ischemic diseases. Safi J Jr, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2311–25 (128 ref.)
Specific cytotoxic T lymphocytes in gene therapy. Altenschmidt U, et al. **J Mol Med** 1997 Apr;75(4):259–66 (76 ref.)
Gene therapy: from retrovirus to triplex DNA repair [editorial] Becker Y, et al. **J Mol Med** 1997 Apr;75(4):247–8
Triplex DNA: fundamentals, advances, and potential applications for gene therapy. Chan PP, et al. **J Mol Med** 1997 Apr;75(4):267–82 (128 ref.)
Biosynthetic retrovectoring systems for gene therapy. Hodgson CP, et al. **J Mol Med** 1997 Apr;75(4):249–58 (50 ref.)
Gene therapy for glioblastoma [correction of gliobestome] multiform: in vivo tumor transduction with the herpes simplex thymidine kinase gene followed by ganciclovir. Stockhammer G, et al. **J Mol Med** 1997 Apr;75(4):300–4
Gene–based strategies for the immunotherapy of cancer. Tüting T, et al. **J Mol Med** 1997 Jul;75(7):478–91 (142 ref.)
Gene therapy: mastering the basics, defining details [news] Jenks S. **J Natl Cancer Inst** 1997 Aug 20;89(16):1182–4
Genetic therapy for breast cancer reaches the drawing board. McBride G. **J Natl Cancer Inst** 1996 Dec 4;88(23):1710
Faux chromosomes hit the streets, hold real promise for gene therapy [news] Nelson NJ. **J Natl Cancer Inst** 1997 Jul 2;89(13):908–10
Gene therapy for cancer: what have we done and where are we going? Roth JA, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):21–39 (152 ref.)
Phase I study of a recombinant adenovirus–mediated gene transfer in lung cancer patients. Tursz T, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1857–63
Adeno–associated viral vector gene transfer into leptomeningeal xenografts. Rosenfeld MR, et al. **J Neurooncol** 1997 Sep;34(2):139–44
Preservation of the bystander cytocidal effect of irradiated herpes simplex virus thymidine kinase (HSV–tk) modified tumor cells. Vrionis FD, et al. **J Neurooncol** 1996 Dec; 30(3):225–36
Transient gene transfer to neurons and glia: analysis of adenoviral vector performance in the CNS and PNS. Hermens WT, et al. **J Neurosci Methods** 1997 Jan; 71(1):85–98
Adenovirus–mediated gene transfer to the brain: methodological assessment. Peltékian E, et al. **J Neurosci Methods** 1997 Jan;71(1):77–84 (37 ref.)
Herpes simplex virus vectors for gene transfer to the nervous system. Goins WF, et al. **J Neurovirol** 1997 May;3 Suppl 1:S80–8 (91 ref.)
Increased susceptibility to the pathogenic effects of wild–type and recombinant herpesviruses in MPS VII mice compared to normal siblings. Wolfe JH, et al. **J Neurovirol** 1996 Dec; 2(6):417–22
Gene therapy: the case for cystic fibrosis. Alton EW, et al. **J R Soc Med** 1997;90 Suppl 31:43–6 (15 ref.)
Induction of angiogenesis by lidocaine and basic fibroblast growth factor: a model for in vivo retroviral–mediated gene therapy. Jejurikar SS, et al. **J Surg Res** 1997 Feb 1; 67(2):137–46
Murine leukemia virus–based Tat–inducible long terminal repeat replacement vectors: a new system for anti–human immunodeficiency virus gene therapy. Cannon PM, et al. **J Virol** 1996 Nov;70(11):8234–40
Biology of adenovirus vectors with E1 and E4 deletions for liver–directed gene therapy. Gao GP, et al. **J Virol** 1996 Dec;70(12):8934–43
Method for concentrating and purifying recombinant autonomous parvovirus vectors designed for tumour–cell–targeted gene therapy. Avalosse B, et al. **J Virol Methods** 1996 Dec;62(2):179–83
Osteogenesis imperfecta. Rehabilitation and prospects for gene therapy [clinical conference] Marini JC, et al. **JAMA** 1997 Mar 5;277(9):746–50
Usefulness of a mouse myelin basic protein promoter for gene therapy of malignant glioma: myelin basic protein promoter is strongly active in human malignant glioma cells. Miyao Y, et al. **Jpn J Cancer Res** 1997 Jul;88(7):678–86
Prospects for gene therapy in sports medicine. Gerich TG, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(3):180–7 (86 ref.)
Immune system in suicide–gene therapy. Freeman SM, et al. **Lancet** 1997 Jan 4;349(9044):2–3
BCL–2 antisense therapy in patients with non–Hodgkin lymphoma. Webb A, et al. **Lancet** 1997 Apr 19; 349(9059):1137–41
Endogenous murine leukemia virus DNA sequences in murine cell lines: implications for gene therapy safety testing by PCR. Allan DS, et al. **Leuk Lymphoma** 1996 Oct;23(3–4):375–81
Pleiotropic expression of heterologous cytokine/receptor genes in HTLV–1 associated diseases: candidate TRS for chimeric gene therapy. Greenberg SJ, et al. **Leukemia** 1997 Apr;11 Suppl 3:79–81
Effective prevention of thrombocytopenia using adenovirus–mediated transfer of HST–11FGF–4 gene: in vivo and in vitro studies. Konishi H, et al. **Leukemia** 1997 Apr;11 Suppl 3:530–2
In vivo drug–selectable markers in gene therapy. Sugimoto Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:552–6
Human immunodeficiency virus–1 proviral gene disruption by targeted gene therapy: a hypothetical technique for the elimination of provirus from the infected cells. Batchu RB, et al. **Med Hypotheses** 1997 Jul;49(1):35–9 (32 ref.)
Gene therapy of cancer. Bank A. **Med Oncol** 1995 Sep; 12(3):143–7 (25 ref.)
Considerations for the clinical development of cytokine gene–transduced tumor cell vaccines. Jaffee EM, et al. **Methods** 1997 Jun;12(2):143–53 (50 ref.)
Hairpin ribozyme gene therapy for AIDS. Duarte EA, et al. **Methods Mol Biol** 1997;74:459–68
Clinical aspects of ribozymes as therapeutics in gene therapy. Looney D, et al. **Methods Mol Biol** 1997;74:469–86 (71 ref.)
Inducible system designed for future gene therapy. Wang Y, et al. **Methods Mol Biol** 1997;63:401–13
Fetal somatic gene therapy. Douar AM, et al. **Mol Hum Reprod** 1996 Sep;2(9):633–41 (88 ref.)
The window of opportunity for fetal gene therapy. Iwamoto HS. **Mol Hum Reprod** 1996 Jul;2(7):472–4
In–utero gene transfer—an approach to the treatment of inherited lung diseases. McCray PB Jr. **Mol Hum Reprod** 1996 Jul;2(7):469–71
Retrovirus–mediated gene therapy to fetal lung. Pitt BR, et al. **Mol Hum Reprod** 1996 Jul;2(7):467–9
Testing gene therapy vectors in healthy volunteers [news] Featherstone C. **Mol Med Today** 1997 Jul;3(7):277
Intracellular immunization or immunotherapy for HIV infection? [news] Featherstone C. **Mol Med Today** 1996 Jul;2(7):271
Heat–inducible promoters for gene therapy [news] Fricker J. **Mol Med Today** 1997 Mar;3(3):94–5
'Genetic surgery' for vascular grafts [news] O'Brien C. **Mol Med Today** 1997 Jul;3(7):279
Bacterial vector for cancer therapy [news] Stewart A. **Mol Med Today** 1997 Apr;3(4):141
Researchers to throw antisense against brain tumors [news] Veggeberg S. **Mol Med Today** 1996 Feb;2(2):48
Molecular neurosurgery using gene therapy to treat malignant glioma. Yoshida J. **Nagoya J Med Sci** 1996 Dec; 59(3–4):97–105 (33 ref.)
Aerosol CF gene therapy "safe and efficient" [news] **Nat Biotechnol** 1997 Feb;15(2):116
Improved DNA: liposome complexes for increased systemic delivery and gene expression. Templeton NS, et al. **Nat Biotechnol** 1997 Jul;15(7):647–52
Gene therapy: progress, problems, prospects [news] Blau H, et al. **Nat Med** 1997 Jun;3(6):612–3
Epstein–Barr virus–driven gene therapy for EBV–related lymphomas. Franken M, et al. **Nat Med** 1996 Dec; 2(12):1379–82
Gene therapy of murine motor neuron disease using adenoviral vectors for neurotrophic factors [see comments] Haase G, et al. **Nat Med** 1997 Apr;3(4):429–36. Comment in: Nat Med 1997 Apr;3(4):380–1.
Live E. coli cells to treat uremia [letter; comment] Lange H. **Nat Med** 1997 Jan;3(1):2–3; discussion 3–4. Comment on: Nat Med 1996 Aug;2(8):883–7.
Gene therapy gets the green light in Japan [news] Nathan R. **Nat Med** 1997 May;3(5):482
Adenovirus–mediated retinoblastoma gene therapy suppresses spontaneous pituitary melanotroph tumors in Rb+/– mice. Riley DJ, et al. **Nat Med** 1996 Dec; 2(12):1316–21
Gene therapy for motor neuron disease [news; comment] Sendtner M. **Nat Med** 1997 Apr;3(4):380–1. Comment on: Nat Med 1997 Apr;3(4):429–36.
Viral vector–mediated transduction of a modified platelet factor 4 cDNA inhibits angiogenesis and tumor growth. Tanaka T, et al. **Nat Med** 1997 Apr;3(4):437–42
Live E. coli cells to treat uremia [letter; comment] Wrong O. **Nat Med** 1997 Jan;3(1):3; discussion 3–4. Comment on: Nat Med 1996 Aug;2(8):883–7.
Gene therapy and ovarian cancer: a review. Barnes MN, et al. **Obstet Gynecol** 1997 Jan;89(1):145–55 (104 ref.)
Gene therapy. Is the future here yet? Yaron Y, et al. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):179–99 (72 ref.)
Inhibition of intratracheal lung cancer development by systemic delivery of E1A. Chang JY, et al. **Oncogene** 1996 Oct 3;13(7):1405–12
p53 mediated sensitization of squamous cell carcinoma of the head and neck to radiotherapy. Pirollo KF, et al. **Oncogene** 1997 Apr 10;14(14):1735–46
Inhibition of experimental proliferative vitreoretinopathy by retroviral vector–mediated transfer of suicide gene. Can proliferative vitreoretinopathy be a target of gene therapy?[see comments] Sakamoto T, et al. **Ophthalmology** 1995 Oct;102(10):1417–24. Comment in: Ophthalmology 1995 Oct;102(10):1415–6.
Gene therapy in ocular disease [editorial; comment] Stout T. **Ophthalmology** 1995 Oct;102(10):1415–6. Comment on: Ophthalmology 1995 Oct;102(10):1417–24.
Ex vivo gene transfer to chondrocytes in full–thickness articular cartilage defects: a feasibility study. Kang R, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):139–43
Genetic therapy. Past, present, and future. Flotte TR, et al. **Pediatr Clin North Am** 1997 Feb;44(1):153–78 (183 ref.)
Pharmaceutical approach to somatic gene therapy. Ledley FD. **Pharm Res** 1996 Nov;13(11):1595–614 (227 ref.)
Cationic lipid–based gene delivery systems: pharmaceutical perspectives. Mahato RI, et al. **Pharm Res** 1997 Jul; 14(7):853–9 (53 ref.)
Selection of retrovirally transduced cells to enhance the efficiency of gene therapy. Medin JA, et al. **Proc Assoc Am Physicians** 1997 Mar;109(2):111–9 (67 ref.)
The application of genetically engineered herpes simplex viruses to the treatment of experimental brain tumors. Andreansky SS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11313–8 (53 ref.)
Safety–modified episomal vectors for human gene therapy. Cooper MJ, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6450–5
Fusigenic viral liposome for gene therapy in cardiovascular diseases [comment] Dzau VJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11421–5 (27 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Oct 15;983(21):11615–7.
Gene delivery to skeletal muscle results in sustained expression and systemic delivery of a therapeutic protein. Kessler PD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14082–7
Adenovirus–mediated gene transfer and expression of human beta–glucuronidase gene in the liver, spleen, and central nervous system in mucopolysaccharidosis type VII mice. Ohashi T, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1287–92
Development of HIV vectors for anti–HIV gene therapy. Poeschla E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11395–9 (50 ref.)
Transgenic studies with a keratin promoter–driven growth hormone transgene: prospects for gene therapy. Wang X, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):219–26
A novel cationic lipid greatly enhances plasmid DNA delivery and expression in mouse lung. Wheeler CJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11454–9
Gene therapy in rheumatology. From the laboratory to the patient [editorial] Boissier MC, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):1–3
Growth–arrest homeobox gene Gax: a molecular strategy to prevent arterial restenosis. Maillard L, et al. **Schweiz Med Wochenschr** 1996 Oct 12;126(41):1721–6
Nonviral strategies for gene therapy. Felgner PL. **Sci Am** 1997 Jun;276(6):102–6
Neurological gene therapy. Fooks AR, et al. **Sci Prog** 1997; 80 (Pt 2):107–24 (16 ref.)
Molecular biological intervention. Isaka Y, et al. **Semin Nephrol** 1996 Nov;16(6):591–8 (23 ref.)
Gene therapy: current and future implications for oncology nursing practice. Lea DH. **Semin Oncol Nurs** 1997 May; 13(2):115–22 (47 ref.)
Immunological gene therapy approaches for malignant melanoma. 2. Preclinical studies and clinical strategies. Bonnekoh B, et al. **Skin Pharmacol** 1997;10(3):105–25 (93 ref.)
Immunological gene therapy approaches for malignant melanoma. 1. Tumor–immunological background. Bonnekoh B, et al. **Skin Pharmacol** 1997;10(2):49–62 (86 ref.)
Transfer of genes to chondrocytic cells of the lumbar spine. Proposal for a treatment strategy of spinal disorders by local gene therapy. Wehling P, et al. **Spine** 1997 May 15; 22(10):1092–7
New therapeutic approaches based on gene transfer techniques. Chong H, et al. **Springer Semin Immunopathol** 1996;18(2):149–70 (140 ref.)
Retroviral stem cell gene therapy. Havenga M, et al. **Stem Cells** 1997;15(3):162–79 (144 ref.)
In vivo drug–selectable genes: a new concept in gene therapy. Licht T, et al. **Stem Cells** 1997;15(2):104–11 (85 ref.)
New approach for the treatment of medulloblastoma by transfection with glial fibrillary acidic protein gene. Sadatomo T, et al. **Surg Oncol** 1996 Apr;5(2):69–75
Vascular gene therapy in the 21st century. Clowes AW. **Thromb Haemost** 1997 Jul;78(1):605–10 (70 ref.)
Viral vector–mediated gene therapy for hemophilia B. Eisensmith RC, et al. **Thromb Haemost** 1997 Jul;78(1):24–30 (81 ref.)
Cellular gene therapy: a credible odyssey [editorial; comment] Klein HG. **Transfusion** 1997 Jul;37(7):675–7. Comment on: Transfusion 1997 Jul;37(7):685–90.
Toward the biologic release of human insulin from skeletal muscle. Bartlett RJ, et al. **Transplant Proc** 1997 Jun; 29(4):2199–200
Use of biolistic particle accelerator to introduce genes into isolated islets of Langerhans. Bartlett RJ, et al. **Transplant Proc** 1997 Jun;29(4):2201–2
Gene therapy and transplantation—a brief review. Knechtle

SJ. **Transplant Proc** 1996 Dec;28(6 Suppl 1):19–23 (37 ref.)
The potential of extrachromosomal replicating vectors for gene therapy. Calos MP. **Trends Genet** 1996 Nov; 12(11):463–6 (32 ref.)
Anti-gene therapy: the use of ribozymes to inhibit gene function. Couture LA, et al. **Trends Genet** 1996 Dec; 12(12):510–5 (55 ref.)
Strategies for targeted gene therapy. Harris JD, et al. **Trends Genet** 1996 Oct;12(10):400–5 (67 ref.)
Our retroviral heritage. Patience C, et al. **Trends Genet** 1997 Mar;13(3):116–20 (62 ref.)
Destroying retroviruses from within. Boeke JD, et al. **Trends Microbiol** 1996 Nov;4(11):421–6 (27 ref.)
Adenovirus-mediated suicide gene therapy for experimental bladder cancer. Sutton MA, et al. **Urology** 1997 Feb; 49(2):173–80
Development of improved vectors for DNA-based immunization and other gene therapy applications. Norman JA, et al. **Vaccine** 1997 Jun;15(8):801–3
[Towards gene therapy in familial hypercholesterolemia] Pagès JC, et al. **C R Seances Soc Biol Fil** 1996;190(1):53–65 (Eng. Abstr.) **(Fre)**
[Gene therapy for severe combined immunodeficiency linked to chromosome X] Fischer A. **Hematol Cell Ther** 1997 Apr; 39(2):97 (0 ref.) **(Fre)**
[Somatic gene therapy of mucoviscidosis using recombinant adenovirus: the start of a long course] Rochat T. **Schweiz Med Wochenschr** 1997 Feb 1;127(5):148–57 (51 ref.) (Eng. Abstr.) **(Fre)**
[A model of congenital erythropoietic porphyria for gene transfer in hematopoietic cells] de Verneuil H, et al. **Transfus Clin Biol** 1997;4(3):263–6 (Eng. Abstr.) **(Fre)**
[Genetic therapy for hemophiliacs—therapeutic potential and technological limits] Michou AI, et al. **Transfus Clin Biol** 1997;4(3):251–61 (25 ref.) (Eng. Abstr.) **(Fre)**
[Liver cell transplantation as somatic gene therapy] Tietge UJ, et al. **Dtsch Med Wochenschr** 1996 Oct 11; 121(41):1271–5 (49 ref.) **(Ger)**
[Vectors for gene therapy] Schneider H. **Med Monatsschr Pharm** 1997 Apr;20(4):98–102 (50 ref.) **(Ger)**
[Gene therapy of neurologic diseases. Experimental approaches and clinical perspectives] Isenmann S, et al. **Nervenarzt** 1996 Feb;67(2):91–108 (146 ref.) (Eng. Abstr.) **(Ger)**
[Functional success follow-up in mucoviscidosis gene therapy] Kersting U. **Pneumologie** 1996 Dec;50 Suppl 3:867–72 (58 ref.) **(Ger)**
[Cardiovascular molecular genetics and gene therapy. Introduction to the terminology and technique] Eppenberger HM. **Schweiz Med Wochenschr** 1996 Oct 12; 126(41):1716–20 (Eng. Abstr.) **(Ger)**
[Possibilities and prospects in gene therapy in cancer patients] Rochlitz CF, et al. **Ther Umsch** 1996 Nov;53(11):847–53 (14 ref.) (Eng. Abstr.) **(Ger)**
[Virally mediated gene transfer in the patellar tendon. An experimental study in rabbits] Gerich TG, et al. **Unfallchirurg** 1997 May;100(5):354–62 (Eng. Abstr.) **(Ger)**
[Basic principles of gene therapy] Vieweg J. **Urologe A** 1996 Sep;35(5):378–89 (64 ref.) (Eng. Abstr.) **(Ger)**
[Recombinant virus-mediated transfer of the wild-type p53 gene is a potent therapeutic strategy for human cancer] Fujiwara T, et al. **Hum Cell** 1996 Mar;9(1):25–30 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Physiopathology and gene therapy of HIV infection] Matsushita S. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):651–3 (5 ref.) **(Jpn)**
[Gene therapy of hereditary respiratory tract diseases] Yoshimura K. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):645–50 (38 ref.) **(Jpn)**
[Application of decoy strategy] Morishita R, et al. **Nippon Rinsho** 1996 Sep;54(9):2583–90 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Transfer of endothelial nitric oxide synthase gene in the purpose of gene therapy for pulmonary arterial hypertension] Setoguchi Y, et al. **Nippon Rinsho** 1996 Feb; 54(2):369–76 (12 ref.) (Eng. Abstr.) **(Jpn)**
[Gene therapy for restenosis after angioplasty] Morishita R, et al. **Rinsho Byori** 1997 Feb;Suppl 104:224–31 (24 ref.) **(Jpn)**
[Use of hematopoietic stem cells in gene therapy (editorial)] Smogorzewska EM. **Pol Arch Med Wewn** 1996 Dec; 96(6):511–9 **(Pol)**
[Gene therapy—vectors and strategies] Huminiecki L. **Postepy Biochem** 1995;41(4):230–6 (50 ref.) **(Pol)**
[Preliminary studies on the design of retroviral vectors for substitutive gene therapy] Martín F, et al. **Microbiologia** 1996 Mar;12(1):43–50 (Eng. Abstr.) **(Spa)**
[Cell transplantation and gene therapy in Parkinson disease] Björklund A. **Nord Med** 1996 Sep;111(7):225–9 (Eng. Abstr.) **(Swe)**

STANDARDS

Second annual report January 1995–December 1995 Health Departments of the United Kingdom Gene Therapy Advisory Committee May 1996. **Hum Gene Ther** 1996 Oct 1;7(15):1915–22
Supervising gene therapy, openly [editorial] **Lancet** 1997 Jul 12;350(9071):79
Cellular gene therapy: a credible odyssey [editorial; comment] Klein HG. **Transfusion** 1997 Jul;37(7):675–7. Comment on: Transfusion 1997 Jul;37(7):685–90.

TRENDS

Gene therapy 1996. Dranoff G. **Biochim Biophys Acta** 1997 Apr 18;1332(2):R21–4
Genes, disease and medicine. Dykes CW. **Br J Clin Pharmacol** 1996 Dec;42(6):683–95 (53 ref.)
Gene therapy for cancer—in the dock, blown off course or full speed ahead? Vile RC. **Cancer Metastasis Rev** 1996 Sep;15(3):283–6 (42 ref.)
Therapeutic targets in cardiovascular disorders. Schaper W, et al. **Curr Opin Biotechnol** 1996 Dec;7(6):635–40 (51 ref.)
Pathways to gene therapy in rheumatoid arthritis. Evans CH, et al. **Curr Opin Rheumatol** 1996 May;8(3):230–4 (26 ref.)
Combined strategies for gene therapy of AIDS [editorial] Palù G. **Gene Ther** 1997 Mar;4(3):179–80
Exploring the potential of DNA vaccination. Cohen IR, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):169–71, 176–8 (7 ref.)
Progress in human gene therapy. Feuerbach FJ, et al. **Kidney Int** 1996 Jun;49(6):1791–4 (59 ref.)
Gene therapy: hopes, hypes, and hurdles. Verma IM. **Mol Med** 1994 Nov;1(1):2–3
Boehringer networks to get ahead in gene therapy [news] Johnson E. **Nat Biotechnol** 1997 Jan;15(1):12–3
Improved adenoviral vectors: cautious optimism for gene therapy. Channon KM, et al. **QJM** 1997 Feb;90(2):105–9 (42 ref.)
Current status of CF gene therapy. Boucher RC. **Trends Genet** 1996 Mar;12(3):81–4 (24 ref.)
Recombinant proteins for therapy. Buckel P. **Trends Pharmacol Sci** 1996 Dec;17(12):450–6 (31 ref.)
[Gene therapy—current status and outlook] Hantzopoulos PA, et al. **Chirurg** 1996 Oct;67(10):980–3 (13 ref.) (Eng. Abstr.) **(Ger)**
[Basic research in uro-oncology—molecular biology emphasis and gene transfer techniques (editorial)] Gschwend JE, et al. **Urologe A** 1996 Sep;35(5):355–6 **(Ger)**
[The outlook for gene therapy in cardiology] Metelitsa VI. **Ter Arkh** 1997;69(2):71–6 (39 ref.) **(Rus)**
[Genetic therapy; the role of the microbiologist and his future (editorial)] Regueiro BJ. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):57–9 **(Spa)**

VETERINARY

Genetic immunotherapy for cancer. Elmslie RE, et al. **Semin Vet Med Surg (Small Anim)** 1997 Aug;12(3):193–205 (93 ref.)

GENE TRANSFER

Gene transfer of suicide genes for the treatment of malignant gliomas: efficacy, limitations, and perspectives for a combined immunotherapy. Benedetti S, et al. **Acta Neurochir Suppl (Wien)** 1997;68:100–4 (23 ref.)
Gene therapy in brain tumours: implications of the size of glioblastoma on its curability. Izquierdo M, et al. **Acta Neurochir Suppl (Wien)** 1997;68:111–7
Anti-angiogenic gene therapy of malignant glioma. Stratmann A, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:105–10 (30 ref.)
Herpes simplex virus-1 plasmid vectors for gene transfer into neurons. Geller AI. **Adv Neurol** 1997;72:143–8 (35 ref.)
Human adenovirus vectors for gene transfer into mammalian cells. Hitt MM, et al. **Adv Pharmacol** 1997;40:137–206 (445 ref.)
Prostacyclin and nitric oxide-related gene transfer in preventing arterial thrombosis and restenosis. Wu KK. **Agents Actions Suppl** 1997;48:107–23 (35 ref.)
Handling of gene-transfer products by the National Institutes of Health Clinical Center pharmacy department. DeCederfelt HJ, et al. **Am J Health Syst Pharm** 1997 Jul 15;54(14):1604–10
Intrapericardial administration of adenovirus for gene transfer. Lamping KG, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H310–7
Activation of alveolar macrophages and lung host defenses using transfer of the interferon-gamma gene. Lei D, et al. **Am J Physiol** 1997 May;272(5 Pt 1):L852–9
Organ-specific endothelial cell uptake of cationic liposome-DNA complexes in mice. McLean JW, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H387–404
Normalization of ion transport in murine cystic fibrosis nasal epithelium using gene transfer. MacVinish LJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C734–40
A gene transfer system establishes interleukin-6 neither promotes nor suppresses renal injury. Naito T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F603–9
Gene transfer into hepatoma cell lines via the serpin enzyme complex receptor. Ziady AG, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G545–52
The role of nitric oxide in limiting gene transfer: parallels to viral host defenses [comment] Beckman JS, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):495–6. Comment on: Am J Respir Cell Mol Biol 1997 May;16(5):501–9.
CFTR gene transfer reduces the binding of Pseudomonas aeruginosa to cystic fibrosis respiratory epithelium. Davies JC, et al. **Am J Respir Cell Mol Biol** 1997 Jun;16(6):657–63
Modulation of adenovirus-mediated gene transfer by nitric oxide [see comments] Haddad IY, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):501–9. Comment in: Am J Respir Cell Mol Biol 1997 May;16(5):495–6.
Exacerbation of murine Pneumocystis carinii infection by adenoviral-mediated gene transfer of a TNF inhibitor. Kolls JK, et al. **Am J Respir Cell Mol Biol** 1997 Feb; 16(2):112–8
In vivo gene delivery to the pulmonary circulation in rats: transgene distribution and vascular inflammatory response. Rodman DM, et al. **Am J Respir Cell Mol Biol** 1997 Jun; 16(6):640–9
Herpes simplex thymidine kinase gene transfer is required for complete regression of murine colon adenocarcinoma. Nielsen CS, et al. **Am Surg** 1997 Jul;63(7):617–20
Gene transfer in haematological malignancy. Brenner MK. **Ann Med** 1996 Dec;28(6):491–7 (56 ref.)
Vascular gene transfer using smooth muscle cells. Clowes AW. **Ann N Y Acad Sci** 1997 Apr 15;811:293–7; discussion 297–8 (18 ref.)
Adenovirus-vector-mediated cytokine gene transfer to lung tissue. Gauldie J, et al. **Ann N Y Acad Sci** 1996 Oct 31; 796:235–44 (26 ref.)
Prevention of restenosis by gene therapy. Kaneda Y, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:299–308; discussion 308–10
In vivo gene transfer: a biological tool. Nabel EG, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:289–92 (17 ref.)
Adenovirus-mediated transfer of cyclin-dependent kinase inhibitor-p21 suppresses neointimal formation in the balloon-injured rat carotid arteries in vivo. Ueno H, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:401–11
Wild-type p53 gene transfer: a novel therapeutic strategy for neointimal hyperplasia after arterial injury. Yonemitsu Y, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:395–400 (13 ref.)
Expansion of CD3+CD56+ lymphocytes correlates with induction of cytotoxicity by interleukin-2 gene transfer in human breast tumor cultures. Euhus DM, et al. **Ann Surg Oncol** 1997 Jul-Aug;4(5):432–9
Transduction of murine and human tumors using recombinant adenovirus vectors. Toloza EM, et al. **Ann Surg Oncol** 1997 Jan;4(1):70–9
Ex vivo adenoviral-mediated gene transfer to lung isografts during cold preservation [see comments] Boasquevisque CH, et al. **Ann Thorac Surg** 1997 Jun;63(6):1556–61. Comment in: Ann Thorac Surg 1997 Jun;63(6):1527–8.
Gene transfer and thoracic surgery: more to come [editorial; comment] Kaiser LR, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1527–8. Comment on: Ann Thorac Surg 1997 Jun;63(6):1556–61. Comment on: Ann Thorac Surg 1997 Jun;63(6):1562–7.
Long-term gene transfer in porcine myocardium after coronary infusion of an adeno-associated virus vector. Kaplitt MG, et al. **Ann Thorac Surg** 1996 Dec;62(6):1669–76
Experimental bronchiolitis obliterans induced by in vivo HVJ-liposome-mediated endothelin-1 gene transfer [see comments] Takeda S, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1562–7. Comment in: Ann Thorac Surg 1997 Jun;63(6):1527–8.
Gene transfer to neurons using herpes simplex virus-based vectors. Fink DJ, et al. **Annu Rev Neurosci** 1996;19:265–87 (111 ref.)
Natural horizontal transfer of a naphthalene dioxygenase gene between bacteria native to a coal tar-contaminated field site. Herrick JB, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2330–7
Adenovirus-mediated transfer of a dominant-negative H-ras suppresses neointimal formation in balloon-injured arteries in vivo. Ueno H, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):898–904
Suppression of collagen-induced arthritis through adenovirus-mediated transfer of a modified tumor necrosis factor alpha receptor gene. Le CH, et al. **Arthritis Rheum** 1997 Sep;40(9):1662–9
In vivo direct gene transfer into articular cartilage by intraarticular injection mediated by HVJ (Sendai virus) and liposomes. Tomita T, et al. **Arthritis Rheum** 1997 May; 40(5):901–6
Gene transfer and disruption strategies to elucidate hepatic lipoprotein receptor functions. Herz J, et al. **Atherosclerosis** 1995 Dec;118 Suppl:S37–41 (15 ref.)
Adenovirus-assisted lipofection: efficient in vitro gene transfer of luciferase and cytosine deaminase to human smooth muscle cells. Kreuzer J, et al. **Atherosclerosis** 1996 Jul;124(1):49–60
Adenovirus-mediated gene transfer of basic fibroblast growth factor induces in vitro angiogenesis. Takahashi JC, et al. **Atherosclerosis** 1997 Jul 25;132(2):199–205
Gene technology will make fruit and vegetables the key to public health [news] **Aust Fam Physician** 1996 Dec; 25(12):1815
Expression of transgenes in human and rat retinal pigment epithelium in vitro using an adenoviral vector. da Cruz L, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):78–81
Green fluorescent protein variants as markers of retroviral-mediated gene transfer in primary hematopoietic cells and cell lines. Bierhuizen MF, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):371–5
Gene transfer mediated by polyarginine requires a formation of big carrier-complex of DNA aggregate. Emi N, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):421–4

Intracavitary liposome-mediated p53 gene transfer into glioblastoma with endogenous wild-type p53 in vivo results in tumor suppression and long-term survival. Hsiao M, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):359-64

Efficient gene transfer to EGF receptor overexpressing cancer cells by means of EGF-labeled cationic liposomes. Kikuchi A, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):666-71

Adenovirus-mediated transduction with human glial cell line-derived neurotrophic factor gene prevents 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced dopamine depletion in striatum of mouse brain. Kojima H, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):569-73

Cytoplasmic gene expression system enhances the efficiency of cationic liposome-mediated in vivo gene transfer into mouse brain. Mizuguchi H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):15-8

Foreign gene expression in the mouse testis by localized in vivo gene transfer. Muramatsu T, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):45-9

Gene expressions of transferred human chromosome 8 in mouse cell lines. Suzuki N, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):315-9

Selective clinical ultrasound signals mediate differential gene transfer and expression in two human prostate cancer cell lines: LnCap and PC-3. Tata DB, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):64-7

Intramuscular injection of expression plasmid DNA is an effective means of long-term systemic delivery of interleukin-5. Tokui M, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):527-31

Expression and localization of human kallistatin in rat submandibular gland after intracapsular gene injection. Xiong W, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):494-8

An enhanced green fluorescent protein allows sensitive detection of gene transfer in mammalian cells. Zhang G, et al. **Biochem Biophys Res Commun** 1996 Oct 23; 227(3):707-11

Nonnuclear DNA binding proteins in striated muscle. Hagstrom JE, et al. **Biochem Mol Med** 1996 Jun; 58(1):113-21

Retroviral vector-mediated transfer of the galactocerebrosidase (GALC) cDNA leads to overexpression and transfer of GALC activity to neighboring cells. Rafi MA, et al. **Biochem Mol Med** 1996 Aug;58(2):142-50

Characterization of gene expression following intranasal immunization with nucleic acid. Barnfield C, et al. **Biochem Soc Trans** 1997 May;25(2):335S

Gene transfer to muscle. Dickson G. **Biochem Soc Trans** 1996 May;24(2):514-9 (48 ref.)

Gene transfer into cultured bovine ciliary epithelial cells using adenovirus vectors. Walker VE, et al. **Biochem Soc Trans** 1996 Aug;24(3):423S

Analysis of chicken progesterone receptor function and phosphorylation using an adenovirus-mediated procedure for high-efficiency DNA transfer. Allgood VE, et al. **Biochemistry** 1997 Jan 7;36(1):224-32

Complexes of non-cationic liposomes and histone H1 mediate efficient transfection of DNA without encapsulation. Hagstrom JE, et al. **Biochim Biophys Acta** 1996 Oct 2; 1284(1):47-55

Influence of membrane-active peptides on lipospermine/DNA complex mediated gene transfer. Kichler A, et al. **Bioconjug Chem** 1997 Mar-Apr; 8(2):213-21

Human somatic cell gene therapy. Bank A. **Bioessays** 1996 Dec;18(12):999-1007 (84 ref.)

Stable transduction of recombinant adeno-associated virus into hematopoietic stem cells from normal and sickle cell patients. Lubovy M, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):24-30

Non-viral gene transfer: applications in developmental biology and gene therapy. Abdallah B, et al. **Biol Cell** 1995; 85(1):1-7 (36 ref.)

Adenovirus-mediated gene transfer to rat testis in vivo. Blanchard KT, et al. **Biol Reprod** 1997 Feb;56(2):495-500

Adenovirus-mediated gene transfer by perivitelline microinjection of mouse, rat, and cow embryos. Kubisch HM, et al. **Biol Reprod** 1997 Jan;56(1):119-24

Transduction of human trophoblast cells by recombinant adenoviruses is differentiation dependent. MacCalman CD, et al. **Biol Reprod** 1996 Mar;54(3):682-91

Comparison of plasmid DNA preparation methods for direct gene transfer and genetic immunization. Davis HL, et al. **Biotechniques** 1996 Jul;21(1):92-4, 96-9

Gene transfer into subcultured endometrial cells using lipofection. Lascombe I, et al. **Biotechniques** 1996 Jan; 20(1):88-91

Tracking and quantitation of retroviral-mediated transfer using a completely humanized, red-shifted green fluorescent protein gene. Muldoon RR, et al. **Biotechniques** 1997 Jan;22(1):162-7

Removal of an inhibitor of marker enzyme activity in artery extracts by chelating agents. Oswald H, et al. **Biotechniques** 1997 Jan;22(1):78-81

Transient gene transfer into myotubes following differentiation in culture. Robey RB, et al. **Biotechniques** 1996 Jan;20(1):40-2

Titering replication-defective virus for use in gene transfer. Strayer DS, et al. **Biotechniques** 1997 Mar;22(3):447-50

Method for multiple portal vein infusions in mice: quantitation of adenovirus-mediated hepatic gene transfer. Vrancken Peeters MJ, et al. **Biotechniques** 1996 Feb; 20(2):278-85

Transplantation and gene transfer of the human glucocerebrosidase gene into immunoselected primate CD34+Thy-1+ cells. Donahue RE, et al. **Blood** 1996 Dec 1;88(11):4166-72

Retroviral gene transduction of adult peripheral blood or marrow-derived CD34+ cells for six hours without growth factors or on autologous stroma does not improve marking efficiency assessed in vivo. Emmons RV, et al. **Blood** 1997 Jun 1;89(11):4040-6

Retroviral-mediated transfer of the green fluorescent protein gene into murine hematopoietic cells facilitates scoring and selection of transduced progenitors in vitro and identification of genetically modified cells in vivo. Persons DA, et al. **Blood** 1997 Sep 1;90(5):1777-86

Genetic correction of p67phox deficient chronic granulomatous disease using peripheral blood progenitor cells as a target for retrovirus mediated gene transfer. Weil WM, et al. **Blood** 1997 Mar 1;89(5):1754-61

Myeloablative therapy, stem cell rescue and gene transfer in advanced Ewing tumors. Burdach S, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S67-8

Transfer of p16inka/CDKN2 gene in leukaemic cell lines inhibits cell proliferation. Quesnel B, et al. **Br J Haematol** 1996 Nov;95(2):291-8

In vivo adenovirus-mediated gene transfer and the expression in ischemic and reperfused rat brain. Abe K, et al. **Brain Res** 1997 Jul 25;763(2):191-201

Differential and persistent expression patterns of CNS gene transfer by an adeno-associated virus (AAV) vector. McCown TJ, et al. **Brain Res** 1996 Mar 25;713(1-2):99-107

Endothelial cell-based cytokine gene delivery inhibits 9L glioma growth in vivo. Nam M, et al. **Brain Res** 1996 Aug 26;731(1-2):161-70

Adeno-associated virus (AAV) vector antisense gene transfer in vivo decreases GABA(A) alpha1 containing receptors and increases inferior collicular seizure sensitivity. Xiao X, et al. **Brain Res** 1997 May 9;756(1-2):76-83

Non-virally mediated gene transfer into human central nervous system precursor cells. Cattaneo E, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):161-6

Rapid gene transfer into cultured hippocampal neurons and acute hippocampal slices using adenoviral vectors. Griesbeck O, et al. **Brain Res Mol Brain Res** 1997 Feb; 44(1):171-7

Isolation and analysis of different subpopulations of normal human breast epithelial cells after their infection with a retroviral vector encoding a cell surface marker. Bardy P, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):153-65

In vivo adenovirus-mediated gene transfer to newborn rat retinal pigment epithelial cells. Ribeaudeau F, et al. **C R Acad Sci III** 1997 Jul;320(7):523-32

A comparison of gene transfer methods in human dendritic cells. Arthur JF, et al. **Cancer Gene Ther** 1997 Jan-Feb; 4(1):17-25

Retrovirally mediated gene transfer of Arg22 and Tyr22 forms of dihydrofolate reductase into the hematopoietic cell line K562: a comparison of methotrexate resistance. Braun SE, et al. **Cancer Gene Ther** 1997 Jan-Feb;4(1):26-32

Murine neuroblastoma vaccines produced by retroviral transfer of MHC class II genes. Hock RA, et al. **Cancer Gene Ther** 1996 Sep-Oct;3(5):314-20

Tumor inhibitory activity of anti-ras ribozymes delivered by retroviral gene transfer. Li M, et al. **Cancer Gene Ther** 1996 Jul-Aug;3(4):221-9

Resistance to cytosine arabinoside by retrovirally mediated gene transfer of human cytidine deaminase into murine fibroblast and hematopoietic cells. Momparler RL, et al. **Cancer Gene Ther** 1996 Sep-Oct;3(5):331-8

Delivery of the p53 tumor suppressor gene into lung cancer cells by an adenovirus/DNA complex. Nguyen DM, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):191-8

Gene delivery into malignant cells in vivo by a conjugated adenovirus/DNA complex. Nguyen DM, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):183-90

In vivo gene inoculation of a recombinant single-chain antitumor antibody induces anti-immunoglobulin response. Prasad GL, et al. **Cancer Gene Ther** 1997 Jul-Aug; 4(4):253-9

Antibody-mediated gene delivery for B-cell lymphoma in vitro. Schachtschabel U, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):365-72

Interleukin-7 gene transfer in non-small-cell lung cancer decreases tumor proliferation, modifies cell surface molecule expression, and enhances antitumor reactivity. Sharma S, et al. **Cancer Gene Ther** 1996 Sep-Oct; 3(5):302-13

Use of bicistronic retroviral vectors encoding the LacZ gene together with a gene of interest: a method to select producer cells and follow transduced target cells. Staal FJ, et al. **Cancer Gene Ther** 1996 Sep-Oct;3(5):345-51

In vitro maintenance and retroviral transduction of human myeloma cells in long-term marrow cultures. Stewart AK, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):148-56

Liposomal delivery of the herpes simplex virus thymidine kinase gene in glioma: improvement of cell sensitization to ganciclovir. Zerrouqi A, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):385-92

Treatment of malignancy by direct gene transfer of a foreign MHC class I molecule. DeBruyne L. **Cancer Immunol Immunother** 1996 Nov;43(3):180-9 (107 ref.)

A case report: immune responses and clinical course of the first human use of granulocyte/macrophage-colony-stimulating-factor-transduced autologous melanoma cells for immunotherapy. Ellem KA, et al. **Cancer Immunol Immunother** 1997 Mar; 44(1):10-20

Inhibition of peritoneal dissemination of colon carcinoma in syngeneic mice immunized with interleukin-2-producing cells. Gunji Y, et al. **Cancer Lett** 1996 Dec 3;109(1-2):171-6

Structural characteristics of cationic liposomes with potent enhancing effect on retroviral transduction into human hepatoma cells. Kaneko Y, et al. **Cancer Lett** 1996 Oct 22;107(2):211-5

Immunotherapy I: Cyclosine gene transfer strategies. Colombo MP, et al. **Cancer Metastasis Rev** 1996 Sep; 15(3):317-28 (72 ref.)

Chemoprotection of normal tissues by transfer of drug resistance genes. Rafferty JA, et al. **Cancer Metastasis Rev** 1996 Sep;15(3):365-83 (110 ref.)

Immunotherapy III: Combinatorial molecular immunotherapy--a synthesis and suggestions. Vile RG, et al. **Cancer Metastasis Rev** 1996 Sep;15(3):351-64 (101 ref.)

Functional evidence for a colorectal cancer tumor suppressor gene at chromosome 8p22-23 by monochromosome transfer. Gustafson CE, et al. **Cancer Res** 1996 Nov 15; 56(22):5238-45

Intratumoral pharmacokinetics and in vivo gene expression of naked plasmid DNA and its cationic liposome complexes after direct gene transfer. Nomura T, et al. **Cancer Res** 1997 Jul 1;57(13):2681-6

Bioactivity of autologous irradiated renal cell carcinoma vaccines generated by ex vivo granulocyte-macrophage colony-stimulating factor gene transfer. Simons JW, et al. **Cancer Res** 1997 Apr 15;57(8):1537-46

The anti-human tumor effect and generation of human cytotoxic T cells in SCID mice given human peripheral blood lymphocytes by the in vivo transfer of the Interleukin-6 gene using adenovirus vector. Tanaka F, et al. **Cancer Res** 1997 Apr 1;57(7):1335-43

Adenoviral gene transfer of nitric oxide synthase: high level expression in human vascular cells. Channon KM, et al. **Cardiovasc Res** 1996 Nov;32(5):962-72

The Dispatch catheter as a delivery tool for arterial gene transfer. Tahlil O, et al. **Cardiovasc Res** 1997 Jan; 33(1):181-7

Research initiatives in vascular disease. Shively VP, et al. **Cardiovasc Surg** 1996 Oct;4(5):565-9

Towards gene therapy of Hurler syndrome. Fairbairn LJ, et al. **Cas Lek Cesk** 1997 Jan 8;136(1):27-31

High efficiency DNA delivery into swine oocytes and embryos by electronic pulse delivery (EPD). Yang Y, et al. **Cell Res** 1997 Jun;7(1):39-49

Ex vivo gene transfer into myocardium using replication-defective retrovirus. Gojo S, et al. **Cell Transplant** 1996 Sep-Oct;5(5 Suppl 1):S81-4

Transfer and expression of the interferon gamma gene in human endothelial cells inhibits vascular smooth muscle cell growth in vitro. Stopeck AT, et al. **Cell Transplant** 1997 Jan-Feb;6(1):1-8

Gene transfer through implantation of embryonal carcinoma cells in the brain. Watanabe R, et al. **Cell Transplant** 1996 Sep-Oct;5(5 Suppl 1):S9-12

The effects of sialoglycoconjugates on adenovirus-mediated gene transfer to epithelial cells in vitro and in human airway xenografts. Arcasoy SM, et al. **Chest** 1997 Jun;111(6 Suppl):142S-143S

Differential effects of adenoviral-mediated transfer of Na+/K(+)-ATPase subunit genes in lung epithelial cells. Factor P, et al. **Chest** 1997 Jun;111(6 Suppl):110S-111S

Adenoviral vectors for hepatic gene transfer in animals. Kay MA. **Chest** 1997 Jun;111(6 Suppl):138S-142S (43 ref.)

Glycosylated polylysines. Nonviral vectors for gene transfer into cystic fibrosis airway epithelial cells. Kollen W, et al. **Chest** 1997 Jun;111(6 Suppl):95S-96S

Adenovirus-mediated gene transfer of the proteoglycan biglycan induces fibroblastic responses in the lung. Sime PJ, et al. **Chest** 1997 Jun;111(6 Suppl):137S

Transient gene transfer and expression in the lung. Sime PJ, et al. **Chest** 1997 Jun;111(6 Suppl):89S-94S (33 ref.)

Polycationic lipid-mediated gene transfer to the abnormal pulmonary circulation. Tyler RC, et al. **Chest** 1997 Jun; 111(6 Suppl):122S-123S

Studies on the transfer techniques of three maize genes. Wang G, et al. **Chin J Biotechnol** 1996;12(1):53-60

Enhancer stimulation unmasks latent gene transfer after adenovirus-mediated gene delivery into human vascular smooth muscle cells. Clesham GJ, et al. **Circ Res** 1996 Dec; 79(6):1188-95

Adenoviral gene transfer of phospholamban in isolated rat cardiomyocytes. Rescue effects by concomitant gene transfer of sarcoplasmic reticulum Ca(2+)-ATPase. Hajjar RJ, et al. **Circ Res** 1997 Aug;81(2):145-53

Adeno-associated virus vectors for vascular gene delivery. Lynch CM, et al. **Circ Res** 1997 Apr;80(4):497-505

Adenovirus-mediated gene transfer reconstitutes depressed sarcoplasmic reticulum Ca2+-ATPase levels and shortens prolonged cardiac myocyte Ca2+ transients. Giordano FJ,

et al. **Circulation** 1997 Jul 15;96(2):400–3

Physiological effects of adenoviral gene transfer of sarcoplasmic reticulum calcium ATPase in isolated rat myocytes. Hajjar RJ, et al. **Circulation** 1997 Jan 21; 95(2):423–9

Inhibition of vascular smooth muscle cell proliferation and neointimal accumulation by adenovirus–mediated gene transfer of cytosine deaminase. Harrell RL, et al. **Circulation** 1997 Jul 15;96(2):621–7

Adenovirus–mediated gene transfer as an in vivo probe of lipoprotein metabolism [editorial; comment] Leiden JM. **Circulation** 1996 Nov 1;94(9):2046–51. Comment on: Circulation 1996 Nov 1;94(9):2177–84.

Avoidance of immune response prolongs expression of genes delivered to the adult rat myocardium by replication–defective adenovirus. Quiñones MJ, et al. **Circulation** 1996 Sep 15;94(6):1394–401

Potential gene therapy for lecithin–cholesterol acyltransferase (LCAT)–deficient and hypoalphalipoproteinemic patients with adenovirus–mediated transfer of human LCAT gene [see comments] Séguret–Macé S, et al. **Circulation** 1996 Nov 1;94(9):2177–84. Comment in: Circulation 1996 Nov 1;94(9):2046–51.

Downregulation of cyclin G1 expression by retrovirus–mediated antisense gene transfer inhibits vascular smooth muscle cell proliferation and neointima formation. Zhu NL, et al. **Circulation** 1997 Jul 15; 96(2):628–35

Gene transfer technologies for the production of enzyme and protein reference materials. Oster T, et al. **Clin Chim Acta** 1997 Jan 3;257(1):3–23

Resistance gene transfer in anaerobes: new insights, new problems. Salyers AA, et al. **Clin Infect Dis** 1996 Dec;23 Suppl 1:S36–43 (35 ref.)

Advances in the development of herpes simplex virus–based gene transfer vectors for the nervous system. Fink DJ, et al. **Clin Neurosci** 1995–96;3(5):284–91 (41 ref.)

Gene transfer to the mammalian brain using neural stem cells: a focus on trophic factors, neuroregeneration, and cholinergic neuron systems. Martínez–Serrano A, et al. **Clin Neurosci** 1995–96;3(5):301–9 (97 ref.)

A defective herpes simplex virus vector system for gene delivery into the brain: comparison with alternative gene delivery systems and usefulness for gene therapy. Neve RL, et al. **Clin Neurosci** 1995–96;3(5):262–7 (90 ref.)

Combination of gene targeting and gene transfer by adenoviral vectors in the analysis of neurotrophin–mediated neuronal plasticity. Griesbeck O, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:77–83 (39 ref.)

Gene transfer to ex vivo stored corneas. Fehervari Z, et al. **Cornea** 1997 Jul;16(4):459–64

Keratinocyte gene transfer and gene therapy. Garlick JA, et al. **Crit Rev Oral Biol Med** 1996;7(3):204–21 (138 ref.)

Targeted delivery of peptides, proteins, and genes by receptor–mediated endocytosis. Kato Y, et al. **Crit Rev Ther Drug Carrier Syst** 1997;14(3):287–331 (156 ref.)

Lipidic vector systems for gene transfer. Lee RJ, et al. **Crit Rev Ther Drug Carrier Syst** 1997;14(2):173–206 (67 ref.)

Nonviral vectors for in vivo gene delivery: physicochemical and pharmacokinetic considerations. Mahato RI, et al. **Crit Rev Ther Drug Carrier Syst** 1997;14(2):133–72 (177 ref.)

Gene targeting: things go better with Cre. Jiang R, et al. **Curr Biol** 1997 May 1;7(5):R321–3

Retrovirus–mediated transfer of the suicide gene into retinal pigment epithelial cells in vitro. Schubert CA, et al. **Curr Eye Res** 1997 Jul;16(7):656–62

Adenovirus–mediated gene transfer: strategies and applications in lipoprotein research. Gerard RD, et al. **Curr Opin Lipidol** 1996 Apr;7(2):105–11 (37 ref.)

Vascular gene transfer. Ylä–Herttuala S. **Curr Opin Lipidol** 1997 Apr;8(2):72–6 (39 ref.)

Viral vectors for modulating gene expression in neurons. Slack RS, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):576–83 (53 ref.)

Adeno–associated virus vectors for gene transfer into erythroid cells. McCarty DM, et al. **Curr Top Microbiol Immunol** 1996;218:75–91 (31 ref.)

Inclusion of IL–3 during retrovirally–mediated transduction on stromal support does not increase the extent of gene transfer into long–term engrafting human hematopoietic progenitors. Dao MA, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):81–9

In vitro preselection of gene–trapped embryonic stem cell clones for characterizing novel developmentally regulated genes in the mouse. Baker RK, et al. **Dev Biol** 1997 May 15;185(2):201–14

High efficiency gene transfer into the embryonic chicken CNS using B–subgroup retroviruses. Homburger SA, et al. **Dev Dyn** 1996 May;206(1):112–20

Direct gene transfer into the colon using a double–balloon catheter. Schmid RM, et al. **Endoscopy** 1997 Jan; 29(1):39–43

In vitro studies of liposome–mediated gene transfer into head and neck cancer cell lines. Wollenberg B, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S130–2

Adenovirus mediated gene transfer into rat lung grafts at the time of harvest. Schmid RA, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1023–8; discussion 1029

HSV infection of polarized epithelial cells on filter supports: implications for transport assays and protein localization. Murphy C, et al. **Eur J Cell Biol** 1997 Mar;72(3):278–81

Gene transduction into murine primitive hematopoietic cells with 2–gene retroviral vectors using a Transwell coculture system. Asami N, et al. **Eur J Haematol** 1996 Oct; 57(4):278–85

Gene transfer to hematopoietic cells––the clinical experience. Richter J. **Eur J Haematol** 1997 Aug;59(2):67–75 (36 ref.)

Ex vivo gene transfer of brain–derived neurotrophic factor to the intact rat forebrain: neurotrophic effects on cholinergic neurons. Martínez–Serrano A, et al. **Eur J Neurosci** 1996 Apr;8(4):727–35

Transduction of retrovirus–mediated NeoR gene into CD34+ cells purified from granulocyte colony–stimulating factor (G–CSF)–mobilized infant and cord blood. Abe T, et al. **Exp Hematol** 1997 Aug;25(9):966–71

Successful retroviral mediated transduction of a reporter gene in human dendritic cells: feasibility of therapy with gene–modified antigen presenting cells. Aicher A, et al. **Exp Hematol** 1997 Jan;25(1):39–44

Retroviral mediated gene transfer of Flt3 ligand enhances proliferation and MAP kinase activity of AML5 cells. Braun SE, et al. **Exp Hematol** 1997 Jan;25(1):51–6

Gene transfer into the glomerulus by the hemagglutinating virus of Japan–liposome method. Imai E, et al. **Exp Nephrol** 1997 Mar–Apr;5(2):112–7 (30 ref.)

Application of a gene transfer strategy to identify molecules that incite autoimmune kidney injury. Kelley VR, et al. **Exp Nephrol** 1997 Mar–Apr;5(2):144–51

Liposome–mediated gene transfer into the tubules. Lien YH, et al. **Exp Nephrol** 1997 Mar–Apr;5(2):132–6 (22 ref.)

Gene transfer into kidney tubules and vasculature by adenoviral vectors. Sukhatme VP, et al. **Exp Nephrol** 1997 Mar–Apr;5(2):137–43 (20 ref.)

Long–term transgene expression in fetal rat suprachiasmatic nucleus neurografts following ex vivo adenoviral vector–mediated gene transfer. Boer GJ, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):536–45

Recombinant adenovirus: a gene transfer vector for study and treatment of CNS diseases. Davidson BL, et al. **Exp Neurol** 1997 Mar;144(1):125–30 (66 ref.)

Adenovirus–mediated gene transfer to the central nervous system for Parkinson's disease. Horellou P, et al. **Exp Neurol** 1997 Mar;144(1):131–8 (68 ref.)

Gene transfer by adeno–associated virus vectors into the central nervous system. Xiao X, et al. **Exp Neurol** 1997 Mar;144(1):113–24 (81 ref.)

Stabilization of cationic liposome–plasmid DNA complexes by polyamines and poly(ethylene glycol)–phospholipid conjugates for efficient in vivo gene delivery. Hong K, et al. **FEBS Lett** 1997 Jan 3;400(2):233–7

Immune responses, not promoter inactivation, are responsible for decreased long–term expression following plasmid gene transfer into skeletal muscle. Wells KE, et al. **FEBS Lett** 1997 Apr 28;407(2):164–8

Gene replacement in Staphylococcus carnosus and Staphylococcus xylosus. Brückner R. **FEMS Microbiol Lett** 1997 Jun 1;151(1):1–8

Genetically modified tumour vaccines carrying inserted genes for immunoregulatory molecules. Bubenik J. **Folia Biol (Praha)** 1996;42(6):295–304 (114 ref.)

Gene and other biological therapies for vascular diseases. Stephan D, et al. **Fundam Clin Pharmacol** 1997;11(2):97–110 (85 ref.)

Complete regression of established murine hepatocellular carcinoma by in vivo tumor necrosis factor alpha gene transfer [see comments] Cao G, et al. **Gastroenterology** 1997 Feb;112(2):501–10. Comment in: Gastroenterology 1997 Feb;112(2):656–9.

Adeno–associated virus 2–mediated gene transfer in vivo: organ–tropism and expression of transduced sequences in mice. Ponnazhagan S, et al. **Gene** 1997 Apr 29; 190(1):203–10

Restoration of hexosaminidase A activity in human Tay–Sachs fibroblasts via adenoviral vector–mediated gene transfer. Akli S, et al. **Gene Ther** 1996 Sep;3(9):769–74

Polycations increase the efficiency of adenovirus–mediated gene transfer to epithelial and endothelial cells in vitro. Arcasoy SM, et al. **Gene Ther** 1997 Jan;4(1):32–8

Hematopoietic stem cell gene transfer [editorial] Barranger JA. **Gene Ther** 1996 May;3(5):379–80

Gene transfer to augment the therapeutic index of anticancer chemotherapy [editorial] Baum C, et al. **Gene Ther** 1996 Jan;3(1):1–3

Optimized galenics improve in vitro gene transfer with cationic molecules up to 1000–fold. Boussif O, et al. **Gene Ther** 1996 Dec;3(12):1074–80

A novel packaging system for the generation of helper–free oncolytic MVM vector stocks. Brandenburger A, et al. **Gene Ther** 1996 Oct;3(10):927–31

Gene transfer for immunotherapy of cancer [editorial] Bubenik J. **Gene Ther** 1996 Nov;3(11):944–5

Approaches to enhance cancer radiotherapy employing gene transfer methods. Buchsbaum DJ, et al. **Gene Ther** 1996 Dec;3(12):1042–68 (308 ref.)

Naked DNA delivered intraportally expresses efficiently in hepatocytes. Budker V, et al. **Gene Ther** 1996 Jul;3(7):593–8

Enhanced efficacy of combination of IL–2 gene and IL–6 gene–transfected tumor cells in the treatment of established metastatic tumors. Cao X, et al. **Gene Ther** 1996 May; 3(5):421–6

Amphotropic and ecotropic retroviral vector viruses transduce midgestational murine fetal liver cells in a dual–chambered cocultivation system. Casal ML, et al. **Gene Ther** 1997 Jan;4(1):39–44

Adenovirus–mediated gene transfer into human hepatocytes: analysis of the biochemical functionality of transduced cells. Castell JV, et al. **Gene Ther** 1997 May;4(5):455–64

In vivo muscle gene transfer of full–length dystrophin with an adenoviral vector that lacks all viral genes. Clemens PR, et al. **Gene Ther** 1996 Nov;3(11):965–72

Gene delivery to the central and peripheral nervous systems of mice using HSV1 ICP34.5 deletion mutant vectors. Coffin RS, et al. **Gene Ther** 1996 Oct;3(10):886–91

Gene delivery to the heart in vivo and to cardiac myocytes and vascular smooth muscle cells in vitro using herpes virus vectors. Coffin RS, et al. **Gene Ther** 1996 Jul;3(7):560–6

Safety of single–dose administration of an adeno–associated virus (AAV)–CFTR vector in the primate lung. Conrad CK, et al. **Gene Ther** 1996 Aug;3(8):658–68

Mini–dystrophin gene transfer in mdx4cv diaphragm muscle fibers increases sarcolemmal stability. Decrouy A, et al. **Gene Ther** 1997 May;4(5):401–8

Adenovirus–mediated expression of green fluorescent protein. de Martin R, et al. **Gene Ther** 1997 May;4(5):493–5

Isolated–organ perfusion for local gene delivery: efficient adenovirus–mediated gene transfer into the liver. de Roos WK, et al. **Gene Ther** 1997 Jan;4(1):55–62

Euro targeting in Leiden: the fourth meeting of the EWGT, University of Leiden, 14–17 November 1996. Diaz RM, et al. **Gene Ther** 1997 Jun;4(6):501–3

In vitro correction of iduronate–2–sulfatase deficiency by adenovirus–mediated gene transfer. Di Francesco C, et al. **Gene Ther** 1997 May;4(5):442–8

Comparison of promoter strengths on gene delivery into mammalian brain cells using AAV vectors. Doll RF, et al. **Gene Ther** 1996 May;3(5):437–47

Effect of amniotic fluid on cationic lipid mediated transfection and retroviral infection. Douar AM, et al. **Gene Ther** 1996 Sep;3(9):789–96

Constitutive systemic expression of IL–1Ra or soluble TNF receptor by genetically modified hematopoietic cells suppresses LPS induction of IL–6 and IL–10. Doughty LA, et al. **Gene Ther** 1997 Mar;4(3):252–7

Gene therapy of experimental malignant mesothelioma using adenovirus vectors encoding the HSVtk gene. Esandi MC, et al. **Gene Ther** 1997 Apr;4(4):280–7

Effect of co–lipids in enhancing cationic lipid–mediated gene transfer in vitro and in vivo. Fasbender A, et al. **Gene Ther** 1997 Jul;4(7):716–25

Selection and use of ligands for receptor–mediated gene delivery to myogenic cells. Feero WG, et al. **Gene Ther** 1997 Jul;4(7):664–74

Immunologic responses to gene transfer into mice via the polymeric immunoglobulin receptor. Ferkol T, et al. **Gene Ther** 1996 Aug;3(8):669–78

Novel retroviral packaging cell lines: complementary tropisms and improved vector production for efficient gene transfer. Forestell SP, et al. **Gene Ther** 1997 Jun;4(6):600–10

Retroviral end–point titer is not predictive of gene transfer efficiency: implications for vector production. Forestell SP, et al. **Gene Ther** 1995 Dec;2(10):723–30

Cationic liposome–mediated gene transfer. Gao X, et al. **Gene Ther** 1995 Dec;2(10):710–22 (92 ref.)

Gene transfer to the rabbit patellar tendon: potential for genetic enhancement of tendon and ligament healing. Gerich TG, et al. **Gene Ther** 1996 Dec;3(12):1089–93

A placebo–controlled study of liposome–mediated gene transfer to the nasal epithelium of patients with cystic fibrosis. Gill DR, et al. **Gene Ther** 1997 Mar;4(3):199–209

Gradient of RGD–dependent entry of adenoviral vector in nasal and intrapulmonary epithelia: implications for gene therapy of cystic fibrosis. Goldman M, et al. **Gene Ther** 1996 Sep;3(9):811–8

Stromal cells maintain the radioprotective capacity of CFU–S during retroviral infection. Goncalves F, et al. **Gene Ther** 1996 Sep;3(9):761–8

Expression of small, therapeutic RNAs in human cell nuclei. Good PD, et al. **Gene Ther** 1997 Jan;4(1):45–54

A novel DNA–peptide complex for efficient gene transfer and expression in mammalian cells. Gottschalk S, et al. **Gene Ther** 1996 May;3(5):48–57

Living colour [letter] Gullick WJ. **Gene Ther** 1997 May; 4(5):498

Evaluation of promoter strength for hepatic gene expression in vivo following adenovirus–mediated gene transfer. Guo ZS, et al. **Gene Ther** 1996 Sep;3(9):802–10

In vivo transfer of gene and oligodeoxynucleotides into skin of fetal rats by incubation in amniotic fluid. Hayashi SI, et al. **Gene Ther** 1996 Oct;3(10):878–85

Adenovirus–mediated gene transfer into kidney glomeruli using an ex vivo and in vivo kidney perfusion system – first steps towards gene therapy of Alport syndrome. Heikkila P, et al. **Gene Ther** 1996 Jan;3(1):21–7

Bone marrow gene transfer in three patients with adenosine deaminase deficiency. Hoogerbrugge PM, et al. **Gene Ther** 1996 Feb;3(2):179–83

Ex vivo gene delivery of platelet–derived growth factor increases 0–2A progenitors in adult rat spinal cord. Ijichi A, et al. **Gene Ther** 1996 May;3(5):389–95

Mechanism of bystander effect killing in the herpes simplex thymidine kinase gene therapy model of cancer treatment.

Ishii-Morita H, et al. **Gene Ther** 1997 Mar;4(3):244–51
Surfactant enhances adenovirus-mediated gene expression in rabbit lungs. Jobe AH, et al. **Gene Ther** 1996 Sep;3(9):775–9
Rescue of photoreceptor function by AAV-mediated gene transfer in a mouse model of inherited retinal degeneration. Jomary C, et al. **Gene Ther** 1997 Jul;4(7):683–90
Recombinant adeno-associated virus (AAV-CFTR) vectors do not integrate in a site-specific fashion in an immortalized epithelial cell line. Kearns WG, et al. **Gene Ther** 1996 Sep; 3(9):748–55
Coupling of cell-binding ligands to polyethylenimine for targeted gene delivery. Kircheis R, et al. **Gene Ther** 1997 May;4(5):409–18
Adenovirus vector-transduced hepatocytes implanted via a preformed collagen/PTFE support persist for at least 4 weeks in vivo. Kremer EJ, et al. **Gene Ther** 1996 Oct; 3(10):932–6
Macrophage depletion increases the safety, efficacy and persistence of adenovirus-mediated gene transfer in vivo. Kuzmin AI, et al. **Gene Ther** 1997 Apr;4(4):309–16
An electron microscopy study into the mechanism of gene transfer with lipopolyamines. Labat-Moleur F, et al. **Gene Ther** 1996 Nov;3(11):1010–7
Kidney-targeted liposome-mediated gene transfer in mice. Lai LW, et al. **Gene Ther** 1997 May;4(5):426–31
Development of in vivo gene therapy for hearing disorders: introduction of adeno-associated virus into the cochlea of the guinea pig. Lalwani AK, et al. **Gene Ther** 1996 Jul; 3(7):588–92
Efficient muscle-specific transgene expression after adenovirus-mediated gene transfer in mice using a 1.35 kb muscle creatine kinase promoter/enhancer. Larochelle N, et al. **Gene Ther** 1997 May;4(5):465–72
Shock wave permeabilization as a new gene transfer method. Lauer U, et al. **Gene Ther** 1997 Jul;4(7):710–5
Episomal expression of wild-type CFTR corrects cAMP-dependent chloride transport in respiratory epithelial cells. Lei DC, et al. **Gene Ther** 1996 May; 3(5):427–36
Delivery of a PCR amplified DNA fragment into cells: a model for using synthetic genes for gene therapy. Li S, et al. **Gene Ther** 1997 May;4(5):449–54
Transient immunosuppression by FK506 permits a sustained high-level dystrophin expression after adenovirus-mediated dystrophin minigene transfer to skeletal muscles of adult dystrophic (mdx) mice. Lochmüller H, et al. **Gene Ther** 1996 Aug;3(8):706–16
In vivo gene therapy of malignant tumours with heat shock protein-65 gene. Lukacs KV, et al. **Gene Ther** 1997 Apr; 4(4):346–50
Lipofection of a cDNA plasmid containing the dystrophin gene lowers intracellular free calcium and calcium leak channel activity in mdx myotubes. McCarter GC, et al. **Gene Ther** 1997 May;4(5):483–7
Immunization with a plasmid expressing pneumococcal surface protein A (PspA) can elicit protection against fatal infection with Streptococcus pneumoniae. McDaniel LS, et al. **Gene Ther** 1997 Apr;4(4):375–7
Adenovirus-mediated gene transfer: influence of transgene, mouse strain and type of immune response on persistence of transgene expression. Michou AI, et al. **Gene Ther** 1997 May;4(5):473–82
Expression of factor VII by muscle cells in vitro and in vivo following direct gene transfer: modelling gene therapy for haemophilia [published erratum appears in Gene Ther 1996 Aug;3(8):740] Miller G, et al. **Gene Ther** 1995 Dec; 2(10):736–42
Co-expression of the herpes simplex virus thymidine kinase gene potentiates methotrexate resistance conferred by transfer of a mutated dihydrofolate reductase gene. Mineishi S, et al. **Gene Ther** 1997 Jun;4(6):570–6
Safety and efficacy of in vivo gene transfer into the porcine heart with replication-deficient, recombinant adenovirus vectors. Mühlhauser J, et al. **Gene Ther** 1996 Feb; 3(2):145–53
A rapid screening procedure for the identification of high-titer retrovirus packaging clones. Murdoch B, et al. **Gene Ther** 1997 Jul;4(7):744–9
Gene transfer and expression of human alpha-galactosidase from mouse muscle in vitro and in vivo. Novo FJ, et al. **Gene Ther** 1997 May;4(5):488–92
Reversal of potassium channel deficiency in cells from failing hearts by adenoviral gene transfer: a prototype for gene therapy for disorders of cardiac excitability and contractility. Nuss HB, et al. **Gene Ther** 1996 Oct; 3(10):900–12
Combination gene transfer to potentiate tumor regression. Ohno T, et al. **Gene Ther** 1997 Apr;4(4):361–6
Ex vivo adenovirus-mediated gene transfer and immunomodulatory protein production in human cornea. Oral HB, et al. **Gene Ther** 1997 Jul;4(7):639–47
Evidence for safety and efficacy of DOTAP cationic liposome mediated CFTR gene transfer to the nasal epithelium of patients with cystic fibrosis. Porteous DJ, et al. **Gene Ther** 1997 Mar;4(3):210–8
Gene transfer to the central nervous system by transplantation of cerebral endothelial cells. Quinonéro J, et al. **Gene Ther** 1997 Feb;4(2):111–9
Phase I study of immunotherapy of hepatic metastases of colorectal carcinoma by direct gene transfer of an allogeneic histocompatibility antigen, HLA-B7. Rubin J, et al. **Gene Ther** 1997 May;4(5):419–25
High-efficiency retroviral vector mediated gene transfer into human peripheral blood CD4+ T lymphocytes. Rudoll T, et al. **Gene Ther** 1996 Aug;3(8):695–705
Partial regression, yet incomplete eradication of mammary tumors in transgenic mice by retrovirally mediated HSVtk transfer 'in vivo'. Sacco MG, et al. **Gene Ther** 1996 Dec; 3(12):1151–6
Adenovirus-mediated gene transfer into monocyte-derived macrophages of patients with X-linked chronic granulomatous disease: ex vivo correction of deficient respiratory burst. Schneider SD, et al. **Gene Ther** 1997 Jun; 4(6):524–32
Gene transfer by naked DNA into adult mouse brain. Schwartz B, et al. **Gene Ther** 1996 May;3(5):405–11
Neurotoxicity of intracerebral injection of a replication-defective adenoviral vector in a semipermissive species (cotton rat). Shine HD, et al. **Gene Ther** 1997 Apr; 4(4):275–9
Uptake of alpha-(L)-iduronidase produced by retrovirally transduced fibroblasts into neuronal and glial cells in vitro. Stewart K, et al. **Gene Ther** 1997 Jan;4(1):63–75
SV40 mediates stable gene transfer in vivo. Strayer DS, et al. **Gene Ther** 1996 Jul;3(7):581–7
Use of SV40-based vectors to transduce foreign genes to normal human peripheral blood mononuclear cells. Strayer DS, et al. **Gene Ther** 1997 Mar;4(3):219–25
Engineering a mini-herpesvirus as a general strategy to transduce up to 180 kb of functional self-replicating human mini-chromosomes. Sun TQ, et al. **Gene Ther** 1996 Dec; 3(12):1081–8
The use of cationic liposomes DC-CHOL/DOPE and DDAB/DOPE for direct transfer of Escherichia coli cytosine deaminase gene into growing melanoma tumors. Szala S, et al. **Gene Ther** 1996 Nov;3(11):1026–31
In vivo gene transfer of insulin gene into neonatal rats by the HVJ-liposome method resulted in sustained transgene expression. Tomita N, et al. **Gene Ther** 1996 Jun;3(6):477–82
In vivo gene transfer to the human biliary tract. Vickers SM, et al. **Gene Ther** 1996 Sep;3(9):825–8
Condensation of plasmid DNA with polylysine improves liposome-mediated gene transfer into established and primary muscle cells. Vitiello L, et al. **Gene Ther** 1996 May; 3(5):396–404
Persistent transgene expression in mouse liver following in vivo gene transfer with a delta E1/delta E4 adenovirus vector. Wang Q, et al. **Gene Ther** 1997 May;4(5):393–400
Positive and negative regulation of gene expression in eukaryotic cells with an inducible transcriptional regulator. Wang Y, et al. **Gene Ther** 1997 May;4(5):432–41
A potential therapeutic application of hairpin ribozymes: in vitro and in vivo studies of gene therapy for hepatitis C virus infection. Welch PJ, et al. **Gene Ther** 1996 Nov; 3(11):994–1001
Gene transfer of the costimulatory molecules B7-1 and B7-2 into human multiple myeloma cells by recombinant adeno-associated virus enhances the cytolytic T cell response. Wendtner CM, et al. **Gene Ther** 1997 Jul; 4(7):726–35
Adenoviral vector-mediated interleukin-10 expression in vivo: intramuscular gene transfer inhibits cytokine responses in endotoxemia. Xing Z, et al. **Gene Ther** 1997 Feb;4(2):140–9
Transient immune blockade prevents formation of neutralizing antibody to recombinant adenovirus and allows repeated gene transfer to mouse liver. Yang Y, et al. **Gene Ther** 1996 May;3(5):412–20
HVJ (Sendai virus)-cationic liposomes: a novel and potentially effective liposome-mediated technique for gene transfer to the airway epithelium. Yonemitsu Y, et al. **Gene Ther** 1997 Jul;4(7):631–8
Adenovirus-mediated generation of cAMP-stimulated Cl- transport in cystic fibrosis airway epithelia in vitro: effect of promoter and administration method. Zabner J, et al. **Gene Ther** 1996 May;3(5):458–65
Mapping of metastasis suppressor gene(s) for rat prostate cancer on the short arm of human chromosome 8 by irradiated microcell-mediated chromosome transfer. Nihei N, et al. **Genes Chromosomes Cancer** 1996 Dec;17(4):260–8
Assignment of a gene(s) conferring apomixis in Tripsacum to a chromosome arm: cytological and molecular evidence. Kindiger B, et al. **Genome** 1996 Dec;39(6):1133–41
Gene transfer into corn earworm (Helicoverpa zea) embryos. DeVault JD, et al. **Genome Res** 1996 Jul;6(7):571–9
Yeast artificial chromosome transfer into human renal carcinoma cells by spheroplast fusion. Jülicher K, et al. **Genomics** 1997 Jul 1;43(1):95–8
Adenovirus-mediated gene transfer into injured arteries: quantitative analysis of repeated administration. Ueno H. **Gerontology** 1996;42 Suppl 1:25–36
Adenoviral mediated gene transfer can be accomplished in human myeloid cell lines and is inhibited by all-trans retinoic acid-induced differentiation. Tosi P, et al. **Haematologica** 1997 Jul-Aug;82(4):387–91
Transduction of human CD34+ haemopoietic progenitors of various origin using an original retrovirus vector derived from Fr-MuLV and clinically relevant procedures. Cohen-Haguenauer O, et al. **Hematol Cell Ther** 1996 Apr; 38(2):205–6
Physical method for gene transfer: an alternative to viruses. Fouillard L. **Hematol Cell Ther** 1996 Apr;38(2):214–6 (32 ref.)
Transduction and expression of the MDR gene in CD34+ cells from marrow and peripheral blood. Hesdorffer C, et al. **Hematol Cell Ther** 1996 Apr;38(2):210
Expression of CD95(FAS) by gene transfer does not sensitize K562 to Fas-killing. Munker R, et al. **Hematol Cell Ther** 1997 Apr;39(2):75–8
Gene transfer into hematopoietic cells. Nienhuis AW. **Hematol Cell Ther** 1996 Apr;38(2):204
Gene transfer applied to the modulation of alloreactivity. Tiberghien P, et al. **Hematol Cell Ther** 1996 Apr; 38(2):221–4 (25 ref.)
Receptor-mediated delivery of hepatitis B virus DNA and antisense oligodeoxynucleotides to avian liver cells. Madon J, et al. **Hepatology** 1996 Sep;24(3):474–81
Nonviral gene transfer to the liver. Thompson AR, et al. **Hepatology** 1996 Dec;24(6):1541–2
Treatment of cancer using pulsed electric field in combination with chemotherapeutic agents or genes. Nishi T, et al. **Hum Cell** 1997 Mar;10(1):81–6
A powerful nonviral vector for in vivo gene transfer into the adult mammalian brain: polyethylenimine. Abdallah B, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1947–54
Immediate inflammatory responses to adenovirus-mediated gene transfer in rat salivary glands. Adesanya MR, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1085–93
In vitro and in vivo liposome-mediated gene transfer leads to human MDR1 expression in mouse bone marrow progenitor cells. Aksentijevich I, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1111–22
Coupled effects of polybrene and calf serum on the efficiency of retroviral transduction and the stability of retroviral vectors. Andreadis S, et al. **Hum Gene Ther** 1997 Feb 10; 8(3):285–91
Preclinical studies for cell transplantation: isolation of primate fetal hepatocytes, their cryopreservation, and efficient retroviral transduction [published erratum appears in Hum Gene Ther 1997 May 20;8(8):1024] Andreoletti M, et al. **Hum Gene Ther** 1997 Feb 10;8(3):267–74
Correction of Sanfilippo A skin fibroblasts by retroviral vector-mediated gene transfer. Bielicki J, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1965–70
Nonviral gene delivery to the rat kidney with polyethylenimine. Boletta A, et al. **Hum Gene Ther** 1997 Jul 1;8(10):1243–51
Prolonged expression of therapeutic levels of human granulocyte colony-stimulating factor in rats following gene transfer to skeletal muscle. Bonham L, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1423–9
A simple and efficient method for the concentration and purification of recombinant retrovirus for increased hepatocyte transduction in vivo. Bowles NE, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1735–42
Gene marking. Brenner M. **Hum Gene Ther** 1996 Oct 20; 7(16):1927–36 (54 ref.)
In vivo and in vitro gene transfer and expression in rat intestinal epithelial cells by E1-deleted adenoviral vector. Cheng DY, et al. **Hum Gene Ther** 1997 Apr 10;8(6):755–64
Transglutaminase 1 delivery to lamellar ichthyosis keratinocytes. Choate KA, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2247–53
Sustainability of keratinocyte gene transfer and cell survival in vivo. Choate KA, et al. **Hum Gene Ther** 1997 May 20; 8(8):895–901
Retroviral infection is limited by Brownian motion. Chuck AS, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1527–34
Consistent and high rates of gene transfer can be obtained using flow-through transduction over a wide range of retroviral titers. Chuck AS, et al. **Hum Gene Ther** 1996 Apr 10;7(6):743–50
Recombinant adeno-associated viral vectors mediate long-term transgene expression in muscle. Clark KR, et al. **Hum Gene Ther** 1997 Apr 10;8(6):659–69
Retroviral gene transfer in autologous bone marrow transplantation for adult acute leukemia. Cornetta K, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1323–9
Histochemical staining following LacZ gene transfer underestimates transfection efficiency. Couffinhal T, et al. **Hum Gene Ther** 1997 May 20;8(8):929–34
A concentrated and stable aerosol formulation of cationic lipid:DNA complexes giving high-level gene expression in mouse lung. Eastman SJ, et al. **Hum Gene Ther** 1997 Apr 10;8(6):765–73
Gene transfer by DNA/glycosylated polylysine complexes into human blood monocyte-derived macrophages. Erbacher P, et al. **Hum Gene Ther** 1996 Apr 10;7(6):721–9
Clinical trial to assess the safety, feasibility, and efficacy of transferring a potentially anti-arthritic cytokine gene to human joints with rheumatoid arthritis. Evans CH, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1261–80
Viral gene delivery to skeletal muscle: insights on maturation-dependent loss of fiber infectivity for adenovirus and herpes simplex type 1 viral vectors. Feero WG, et al. **Hum Gene Ther** 1997 Mar 1;8(4):371–80
Nomenclature for synthetic gene delivery systems [editorial] Felgner PL, et al. **Hum Gene Ther** 1997 Mar 20;8(5):511–2
Improvements in cationic liposomes for in vivo gene transfer [editorial] Felgner PL. **Hum Gene Ther** 1996 Oct 1; 7(15):1791–3
Intramarrow cytokine gene transfer by adenoviral vectors in dogs. Foley R, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):545–53
HER2-targeted gene transfer. Foster BJ, et al. **Hum Gene Ther** 1997 Apr 10;8(6):719–27

Gene transfer into mammalian cells using histone-condensed plasmid DNA. Fritz JD, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1395-404

Frequency analysis of multidrug resistance-1 gene transfer into human primitive hematopoietic progenitor cells using the cobblestone area-forming cell assay and detection of vector-mediated P-glycoprotein expression by rhodamine-123. Fruehauf S, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1219-31

Adenoviral-mediated thymidine kinase gene transfer into the primate brain followed by systemic ganciclovir: pathologic, radiologic, and molecular studies. Goodman JC, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1241-50

An improved plasmid DNA expression vector for direct injection into skeletal muscle. Hartikka J, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1205-17

Adenoviral vector-mediated gene expression in the nervous system of immunocompetent Wistar and T cell-deficient nude rats: preferential survival of transduced astroglial cells in nude rats. Hermens WT, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1049-63

Two-step delivery of retroviruses to postmitotic, terminally differentiated cells. Ito M, et al. **Hum Gene Ther** 1997 Jan 1;8(1):57-63

Use of amphotropic retroviral vectors for gene transfer in human colon carcinoma cells. Jacomino M, et al. **Hum Gene Ther** 1997 May 1;8(7):835-41

Gene transfer into fetal rat intestine. Jacomino M, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1757-62

Increased contact time improves adenovirus-mediated CFTR gene transfer to nasal epithelium of CF mice. Jiang C, et al. **Hum Gene Ther** 1997 Apr 10;8(6):671-80

Surfactant effects on aerosolized and instilled adenoviral-mediated gene transfer. Jobe AH, et al. **Hum Gene Ther** 1996 Apr 10;7(6):697-704

Evidence for the systemic delivery of a transgene product from salivary glands. Kagami H, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2177-84

Immune responses to adenoviral vectors during gene transfer in the brain. Kajiwara K, et al. **Hum Gene Ther** 1997 Feb 10;8(3):253-65

Characterization of factors involved in modulating persistence of transgene expression from recombinant adenovirus in the mouse lung. Kaplan JM, et al. **Hum Gene Ther** 1997 Jan 1;8(1):45-56

Suitability of bone marrow from HIV-1-infected donors for retrovirus-mediated gene transfer. Kearns K, et al. **Hum Gene Ther** 1997 Feb 10;8(3):301-11

Highly efficient retrovirus-mediated gene transfer into rat hepatocytes in vivo. Kitten O, et al. **Hum Gene Ther** 1997 Aug 10;8(12):1491-4

Gluconoylated and glycosylated polylysines as vectors for gene transfer into cystic fibrosis airway epithelial cells. Kollen WJ, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1577-86

Improved gene transfer into human lymphocytes using retroviruses with the gibbon ape leukemia virus envelope. Lam JS, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1415-22

Detailed analysis of structures and formulations of cationic lipids for efficient gene transfer to the lung. Lee ER, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1701-17

High-efficiency transduction of freshly isolated human tumor cells using adenoviral interleukin-2 vectors. Leimig T, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1233-9

Retrovirus-mediated gene transfer of rat glutathione S-transferase Yc confers in vitro resistance to alkylating agents in human leukemia cells and in clonogenic mouse hematopoietic progenitor cells. Letourneau S, et al. **Hum Gene Ther** 1996 May 1;7(7):831-40

Enhanced distribution of adenovirus-mediated gene transfer to lung parenchyma by perfluorochemical liquid. Lisby DA, et al. **Hum Gene Ther** 1997 May 20;8(8):919-28

Expression of the bcl-2 gene from a defective HSV-1 amplicon vector protects pancreatic beta-cells from apoptosis. Liu Y, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1719-26

Retrovirus-mediated gene expression in hematopoietic cells correlates inversely with growth factor stimulation. Lu M, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2263-71

Functional consequences of adenovirus-mediated murine pancreatic gene transfer. McClane SJ, et al. **Hum Gene Ther** 1997 Apr 10;8(6):739-46

Alveolar macrophages inhibit retrovirus-mediated gene transfer to airway epithelia. McCray PB Jr, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1087-93

Safety of airway gene transfer with Ad2/CFTR2: aerosol administration in the nonhuman primate. McDonald RJ, et al. **Hum Gene Ther** 1997 Mar 1;8(4):411-22

Circumvention of anti-adenovirus neutralizing immunity by administration of an adenoviral vector of an alternate serotype. Mack CA, et al. **Hum Gene Ther** 1997 Jan 1;8(1):99-109

NIDDK Workshop on AAV Vectors: Gene Transfer into Quiescent Cells. McKeon C, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1615-9

Particle-mediated gene transfer of granulocyte-macrophage colony-stimulating factor cDNA to tumor cells: implications for a clinically relevant tumor vaccine. Mahvi DM, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1535-43

Phase I/IB study of immunization with autologous tumor cells transfected with the GM-CSF gene by particle-mediated transfer in patients with melanoma or sarcoma. Mahvi DM, et al. **Hum Gene Ther** 1997 May 1;8(7):875-91

"Sero-switch" adenovirus-mediated in vivo gene transfer: circumvention of anti-adenovirus humoral immune defenses against repeat adenovirus vector administration by changing the adenovirus serotype. Mastrangeli A, et al. **Hum Gene Ther** 1996 Jan;7(1):79-87

Two-step gene transfer using an adenoviral vector carrying the CD4 gene and human immunodeficiency viral vectors. Miyake K, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2281-6

Gene therapy for AIDS using retroviral mediated gene transfer to deliver HIV-1 antisense TAR and transdominant Rev protein genes to syngeneic lymphocytes in HIV-1 infected identical twins. Morgan RA, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1281-306

RANTES secretion by gene-modified tumor cells results in loss of tumorigenicity in vivo: role of immune cell subpopulations. Mulé JJ, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1545-53

In vivo retrovirus-mediated gene transfer into multiple hematopoietic lineages in rabbits without preconditioning. Nelson DM, et al. **Hum Gene Ther** 1997 Apr 10;8(6):747-54

Gene therapy for adult T cell leukemia using human immunodeficiency virus vector carrying the thymidine kinase gene of herpes simplex virus type 1. Obaru K, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2203-8

Transfer of a gene encoding the anticandidal protein histatin 3 to salivary glands. O'Connell BC, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2255-61

Regional delivery of an adenovirus vector containing the Escherichia coli cytosine deaminase gene to provide local activation of 5-fluorocytosine to suppress the growth of colon carcinoma metastatic to liver. Ohwada A, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1567-76

Gene transfer using a novel fusion protein, GAL4/invasin. Paul RW, et al. **Hum Gene Ther** 1997 Jul 1;8(10):1253-62

A novel 'piggyback' packaging system for herpes simplex virus amplicon vectors. Pechan PA, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2003-13

Adenovirus-mediated hepatic gene transfer in mice: comparison of intravascular and biliary administration. Peeters MJ, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1693-9

A gene delivery system activatable by disease-associated matrix metalloproteinases. Peng KW, et al. **Hum Gene Ther** 1997 Apr 10;8(6):729-38

Impairment of force generation after adenovirus-mediated gene transfer to muscle is alleviated by adenoviral gene inactivation and host CD8+ T cell deficiency. Petrof BJ, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1813-26

Activation of the complement system by synthetic DNA complexes: a potential barrier for intravenous gene delivery. Plank C, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1437-46

Adenovirus-mediated gene transfer of viral interleukin-10 inhibits the immune response to both alloantigen and adenoviral antigen. Qin L, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1365-74

Gene transfer of transforming growth factor-beta 1 prolongs murine cardiac allograft survival by inhibiting cell-mediated immunity. Qin L, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1981-8

Glioma cells transduced with an Escherichia coli CD/HSV-1 TK fusion gene exhibit enhanced metabolic suicide and radiosensitivity. Rogulski KR, et al. **Hum Gene Ther** 1997 Jan 1;8(1):73-85

Gene therapy in the United States: a five-year status report. Ross G, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1781-90

Gene transfer into hepatocytes and human liver tissue by baculovirus vectors. Sandig V, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1937-45

Delivery of DNA-cationic liposome complexes by small-particle aerosol. Schwarz LA, et al. **Hum Gene Ther** 1996 Apr 10;7(6):731-41

Gene transfer to the intestinal tract: a new approach using selective injection of the superior mesenteric artery. Sferra TJ, et al. **Hum Gene Ther** 1997 Apr 10;8(6):681-7

A new cationic liposome DNA complex enhances the efficiency of arterial gene transfer in vivo. Stephan DJ, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1803-12

Ionizing radiation greatly improves gene transfer efficiency in mammalian cells. Stevens CW, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1727-34

A phase I study of adenovirus mediated gene transfer of interleukin 2 cDNA into metastatic breast cancer or melanoma. Stewart AK, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1403-14

Liver-directed gene transfer in non-human primates. Sullivan DE, et al. **Hum Gene Ther** 1997 Jul 1;8(10):1195-206

Retrovirus-mediated gene transfer of 6-pyruvoyl-tetrahydropterin synthase corrects tetrahydrobiopterin deficiency in fibroblasts from hyperphenylalaninemic patients. Thöny B, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1587-93

Surfactant inhibits cationic liposome-mediated gene transfer. Tsan MF, et al. **Hum Gene Ther** 1997 May 1;8(7):817-25

Rapid production of interleukin-2-secreting tumor cells by herpes simplex virus-mediated gene transfer: implications for autologous vaccine production. Tung C, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2217-24

Gene transfer into hematopoietic stem cells of nonhuman primates. Van Beusechem VW, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1649-68 (99 ref.)

Dendritic cells transduced with an adenoviral vector encoding a model tumor-associated antigen for tumor vaccination. Wan Y, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1355-63

Construction of human factor IX expression vectors in retroviral vector frames optimized for muscle cells. Wang JM, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1743-56

Herpesvirus vector-mediated gene delivery to human monocytes. Weir JP, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1331-8

Adenovirus-mediated gene transfer of herpes simplex virus thymidine kinase in an ascites model of human breast cancer. Yee D, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1251-7

Optimization of plasmid vectors for high-level expression in lung epithelial cells. Yew NS, et al. **Hum Gene Ther** 1997 Mar 20;8(5):575-84

High-efficiency stable gene transfer of adenovirus into mammalian cells using ionizing radiation. Zeng M, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1025-32

Limitations of retrovirus-mediated HSV-tk gene transfer to pulmonary adenocarcinoma cells in vitro and in vivo. Zhang L, et al. **Hum Gene Ther** 1997 Mar 20;8(5):563-74

Anti-T cell receptor antibody prolongs transgene expression and reduces lung inflammation after adenovirus-mediated gene transfer. Zsengellér ZK, et al. **Hum Gene Ther** 1997 May 20;8(8):935-41

Gene transfer into the mouse retina mediated by an adeno-associated viral vector. Ali RR, et al. **Hum Mol Genet** 1996 May;5(5):591-4

A model of corrective gene transfer in X-linked ichthyosis. Freiberg RA, et al. **Hum Mol Genet** 1997 Jun;6(6):927-33

Encapsidated adenovirus minichromosomes allow delivery and expression of a 14 kb dystrophin cDNA to muscle cells. Kumar-Singh R, et al. **Hum Mol Genet** 1996 Jul;5(7):913-21

Gene delivery to the epidermis. Trainer AH, et al. **Hum Mol Genet** 1997;6(10):1761-7 (63 ref.)

Immunology of gene therapy with adenoviral vectors in mouse skeletal muscle. Yang Y, et al. **Hum Mol Genet** 1996 Nov;5(11):1703-12

In-vivo gene transfer to the uterine endometrium. Charnock-Jones DS, et al. **Hum Reprod** 1997 Jan;12(1):17-20

In vivo gene transfer and gene modulation in hypertension research. Dzau VJ, et al. **Hypertension** 1996 Dec;28(6):1132-7 (44 ref.)

Gene transfer to carotid sinus in vivo: a novel approach to investigation of baroreceptors. Meyrelles SS, et al. **Hypertension** 1997 Sep;30(3 Pt 2):708-13

Prolonged reduction of high blood pressure with an in vivo, nonpathogenic, adeno-associated viral vector delivery of AT1-R mRNA antisense. Phillips MI, et al. **Hypertension** 1997 Jan;29(1 Pt 2):374-80

Generation of a human melanocyte cell line by introduction of HPV16 E6 and E7 genes. Le Poole IC, et al. **In Vitro Cell Dev Biol Anim** 1997 Jan;33(1):42-9

Gene transfer into mouse embryonic stem cell-derived cardiac myocytes mediated by recombinant adenovirus. Rust EM, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr;33(4):270-6

Direct somatic embryogenesis and transformation in Cicer arietinum L. Ramana RV, et al. **Indian J Exp Biol** 1996 Jul;34(7):716-8

Applications of hematopoietic stem cells and gene transfer. Huss R. **Infusionsther Transfusionsmed** 1996 Jun;23(3):147-60 (224 ref.)

A Drosophila melanogaster hobo-white(+) vector mediates low frequency gene transfer in D. virilis with full interspecific white(+) complementation. Gomez SP, et al. **Insect Mol Biol** 1997 May;6(2):165-71

Identification of a novel breast-cancer-anti-estrogen-resistance (BCAR2) locus by cell-fusion-mediated gene transfer in human breast-cancer cells. Dorssers LC, et al. **Int J Cancer** 1997 Aug 7;72(4):700-5

Adenovirus-mediated p53 gene transfer suppresses growth of human glioblastoma cells in vitro and in vivo. Köck H, et al. **Int J Cancer** 1996 Sep 17;67(6):808-15

A phase-I clinical study of autologous tumor cells plus interleukin-2-gene-transfected allogeneic fibroblasts as a vaccine in patients with cancer. Veelken H, et al. **Int J Cancer** 1997 Jan 27;70(3):269-77

Vascular lesions in mice with a deficit in Fas-mediated apoptosis and their transfer. Nose M, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S11-20

Viral-mediated gene transfer in the cochlea. Weiss MA, et al. **Int J Dev Neurosci** 1997 Jul;15(4-5):577-83

In vivo gene transfer into the retina mediated by a novel liposome system. Hangai M, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2678-85

Passivation of metallic stents after arterial gene transfer of phVEGF165 inhibits thrombus formation and intimal thickening. Van Belle E, et al. **J Am Coll Cardiol** 1997 May;29(6):1371-9

Gene transfer in Mycoplasma arthritidis: transformation, conjugal transfer of Tn916, and evidence for a restriction system recognizing AGCT. Voelker LL, et al. **J Bacteriol** 1996 Oct;178(20):6078-81

Initial stage of DNA-electrotransfer into E. coli cells. Kimoto H, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):237-42

Complexes of adenovirus with polycationic polymers and cationic lipids increase the efficiency of gene transfer in vitro and in vivo. Fasbender A, et al. **J Biol Chem** 1997 Mar 7;272(10):6479–89

Binding of cationic alpha–helical peptides to plasmid DNA and their gene transfer abilities into cells. Niidome T, et al. **J Biol Chem** 1997 Jun 13;272(24):15307–12

Reconstitution of FhuA, an Escherichia coli outer membrane protein, into liposomes. Binding of phage T5 to Fhua triggers the transfer of DNA into the proteoliposomes. Plançon L, et al. **J Biol Chem** 1997 Jul 4;272(27):16868–72

SV40 as an effective gene transfer vector in vivo. Strayer DS. **J Biol Chem** 1996 Oct 4;271(40):24741–6

Insulin–like growth factor–I liposomal gene transfer and systemic growth hormone stimulate wound healing. Pierre EJ, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):287–91

Toxic action of nitric oxide on myocardial cells: direct evidence from gene transfer in vivo. Shin WS, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S149–53

Adenovirus–mediated gene transfer of the tumor suppressor, p53, induces apoptosis in postmitotic neurons. Slack RS, et al. **J Cell Biol** 1996 Nov;135(4):1085–96

Herpes simplex viral vectors expressing Bcl–2 are neuroprotective when delivered after a stroke. Lawrence MS, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):740–4

Proliferation induced by keratinocyte growth factor enhances in vivo retroviral–mediated gene transfer to mouse hepatocytes. Bosch A, et al. **J Clin Invest** 1996 Dec 15; 98(12):2683–7

Potentiation of beta–adrenergic signaling by adenoviral–mediated gene transfer in adult rabbit ventricular myocytes. Drazner MH, et al. **J Clin Invest** 1997 Jan 15;99(2):288–96

Established immunity precludes adenovirus–mediated gene transfer in rat carotid arteries. Potential for immunosuppression and vector engineering to overcome barriers of immunity. Schulick AH, et al. **J Clin Invest** 1997 Jan 15;99(2):209–19

Prevention of bleomycin–induced pulmonary fibrosis after adenovirus–mediated transfer of the bacterial bleomycin resistance gene. Tran PL, et al. **J Clin Invest** 1997 Feb 15;99(4):608–17

Liver–directed gene transfer and prolonged expression of three major human ApoE isoforms in ApoE–deficient mice. Tsukamoto K, et al. **J Clin Invest** 1997 Jul 1;100(1):107–14

When bad gene transfer is good [editorial; comment] Wilson JM. **J Clin Invest** 1996 Dec 1;98(11):2435. Comment on: J Clin Invest 1996 Dec 1;98(11):2539–48.

Lack of high affinity fiber receptor activity explains the resistance of ciliated airway epithelia to adenovirus infection. Zabner J, et al. **J Clin Invest** 1997 Sep 1; 100(5):1144–9

Potential for gene transfer among enterococci from a single patient and the possibility of confounding typing results. Petts DN, et al. **J Clin Microbiol** 1997 Jul;35(7):1722–7

Phase I study of direct gene transfer of an allogeneic histocompatibility antigen, HLA–B7, in patients with metastatic melanoma. Stopeck AT, et al. **J Clin Oncol** 1997 Jan;15(1):341–9

Retrovirally mediated gene transfer in a skin equivalent model of chronic wounds. Badiavas E, et al. **J Dermatol Sci** 1996 Oct;13(1):56–62

Development of drug targeting based on recombinant expression of the chicken avidin gene. Walker L, et al. **J Drug Target** 1996;4(1):41–9

Adenovirus–mediated in vivo gene transfer in a rabbit model of allograft vasculopathy. Mehra MR, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):51–7

Improved retroviral vectors for hematopoietic stem cell protection and in vivo selection. Baum C, et al. **J Hematother** 1996 Aug;5(4):323–9 (40 ref.)

Constitutive intra–articular expression of human IL–1 beta following gene transfer to rabbit synovium produces all major pathologies of human rheumatoid arthritis. Ghivizzani SC, et al. **J Immunol** 1997 Oct 1;159(7):3604–12

IL–2 gene delivery within an established murine tumor causes its regression without proliferation of preexisting antitumor–specific CTL. Levraud JP, et al. **J Immunol** 1997 Apr 1;158(7):3335–43

Mucosal IFN–gamma gene transfer inhibits pulmonary allergic responses in mice. Li XM, et al. **J Immunol** 1996 Oct 15;157(8):3216–9

Human IL–1Ra gene transfer into human synovial fibroblasts is chondroprotective. Müller–Ladner U, et al. **J Immunol** 1997 Apr 1;158(7):3492–8

Differential dependence on target site tissue for gene gun and intramuscular DNA immunizations. Torres CA, et al. **J Immunol** 1997 May 15;158(10):4529–32

Adenoviral gene delivery elicits distinct pulmonary–associated T helper cell responses to the vector and to its transgene. van Ginkel FW, et al. **J Immunol** 1997 Jul 15;159(2):685–93

Gene transfer of the uroporphyrinogen III synthase cDNA into haematopoietic progenitor cells in view of a future gene therapy in congenital erythropoietic porphyria. Mazurier F, et al. **J Inherit Metab Dis** 1997 Jun; 20(2):247–57

Delivery of human interferon–gamma via gene transfer in vitro: prolonged expression and induction of macrophage antimicrobial activity. Stoeckle MY, et al. **J Interferon Cytokine Res** 1996 Dec;16(12):1015–9

Adenoviral–mediated herpes simplex virus–thymidine kinase gene transfer in vivo for treatment of experimental human melanoma. Bonnekoh B, et al. **J Invest Dermatol** 1996 Jun; 106(6):1163–8

Topical application of viral vectors for epidermal gene transfer. Lu B, et al. **J Invest Dermatol** 1997 May; 108(5):803–8

In vivo transfer of a foreign gene to keratinocytes using the hemagglutinating virus of Japan–liposome method. Sawamura D, et al. **J Invest Dermatol** 1997 Feb; 108(2):195–9

Characterization of recombinant adeno–associated virus–2 as a vehicle for gene delivery and expression into vascular cells. Gnatenko D, et al. **J Investig Med** 1997 Feb; 45(2):87–98

Hepatic gene transfer of the catalytic subunit of the apolipoprotein B mRNA editing enzyme results in a reduction of plasma LDL levels in normal and watanabe heritable hyperlipidemic rabbits. Greeve J, et al. **J Lipid Res** 1996 Sep;37(9):2001–17

Efficient in vivo gene transfer into the heart in the rat myocardial infarction model using the HVJ (Hemagglutinating Virus of Japan)—liposome method. Aoki M, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):949–59

Adenovirus–mediated gene transfer into infarcted myocardium: feasibility, timing, and location of expression. Leor J, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2057–67

Direct gene transfer into the mouse heart. Li K, et al. **J Mol Cell Cardiol** 1997 May;29(5):1499–504

Adenovirus–mediated gene transfer of a heat shock protein 70 (hsp 70i) protects against simulated ischemia. Mestril R, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2351–8

Gene therapy with angiogenic factors: a new potential approach to the treatment of ischemic diseases. Safi J Jr, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2311–25 (128 ref.)

Horizontal gene transfer contributes to the wide distribution and evolution of type II restriction–modification systems. Jeltsch A, et al. **J Mol Evol** 1996 Feb;42(2):91–6

Canarypox virus vectors for gene transfer in cancer immunotherapy [editorial; comment] Levitsky HI. **J Natl Cancer Inst** 1997 Mar 19;89(6):408–9. Comment on: J Natl Cancer Inst 1997 Mar 19;89(6):428–60.

Adenoviral vector–directed expression of neurotrophin–3 in rat dorsal root ganglion explants results in a robust neurite outgrowth response. Dijkhuizen PA, et al. **J Neurobiol** 1997 Aug;33(2):172–84

Axon–mediated gene transfer of retinal ganglion cells in vivo. Garcia–Valenzuela E, et al. **J Neurobiol** 1997 Jan; 32(1):111–22

Adenovirus–mediated gene transfer in olfactory neurons in vivo. Zhao H, et al. **J Neurobiol** 1996 Aug;30(4):521–30

Gene–based neurotransmitter modulation in cerebellar granule neurons. Fritz JD, et al. **J Neurochem** 1997 Jan; 68(1):204–12

Glycosaminoglycan storage in cultured neonatal murine mucopolysaccharidosis type VII neuroglial cells and correction by beta–glucuronidase gene transfer. Taylor RM, et al. **J Neurochem** 1997 May;68(5):2079–85

Adeno–associated viral vector gene transfer into leptomeningeal xenografts. Rosenfeld MR, et al. **J Neurooncol** 1997 Sep;34(2):139–44

Phenotypic alteration of astrocytes induced by ciliary neurotrophic factor in the intact adult brain, As revealed by adenovirus–mediated gene transfer. Lisovoski F, et al. **J Neurosci** 1997 Oct 1;17(19):7228–36

Efficient and sustained transgene expression in mature rat oligodendrocytes in primary culture. Guo Z, et al. **J Neurosci Res** 1996 Jan 1;43(1):32–41

Adenovirus–mediated gene transfer into dissociated and explant cultures of rat hippocampal neurons. Wilkemeyer MF, et al. **J Neurosci Res** 1996 Jan 15;43(2):161–74

Herpes simplex virus vectors for gene transfer to the nervous system. Goins WF, et al. **J Neurovirol** 1997 May;3 Suppl 1:S80–8 (91 ref.)

Targeting and gene expression in spinal cord motor neurons following intramuscular inoculation of an HSV–1 vector. Keir SD, et al. **J Neurovirol** 1995 Sep;1(3–4):259–67

Emerging applications of gene transfer in the hematopoietic cancers. Brenner MK. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):1–6 (36 ref.)

Adenoviral–mediated gene transfer to murine small intestine is more efficient in neonates than adults. Hamilton T, et al. **J Pediatr Surg** 1997 Feb;32(2):373–7

In vivo retroviral–mediated transfer of a marker–gene in ornithine transcarbamylase–deficient Spf(ash) mice. Podevin G, et al. **J Pediatr Surg** 1996 Nov;31(11):1516–9

Fetoscopic gene therapy for congenital lung disease. Sylvester KG, et al. **J Pediatr Surg** 1997 Jul;32(7):964–9

Efficiency of plasmid delivery and expression after lipid–mediated gene transfer to human cells in vitro. Bebök Z, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1462–9

Targeted gene transfer in eucaryotic cells by dye–assisted laser optoporation. Palumbo G, et al. **J Photochem Photobiol B** 1996 Oct;36(1):41–6

Gene therapy for colon cancer with the herpes simplex thymidine kinase gene. Link CJ Jr, et al. **J Surg Oncol** 1997 Apr;64(4):289–94

In vivo adenoviral–mediated gene transfer in the treatment of pancreatic cancer. Evoy D, et al. **J Surg Res** 1997 Apr; 69(1):226–31

Quantitation of in vivo gene delivery by restriction enzyme PCR generated polymorphism. Fichera A, et al. **J Surg Res** 1997 Apr;69(1):188–92

Construction of recombinant adeno–associated virus vector containing the rat preproinsulin II gene. Peng L, et al. **J Surg Res** 1997 Apr;69(1):193–8

Retroviral mediated gene transduction alters integrin expression on vascular endothelial cells. Sackman JE, et al. **J Surg Res** 1997 Apr;69(1):45–50

Kinetics of retrovirus mediated gene transfer: the importance of intracellular half–life of retroviruses. Andreadis ST, et al. **J Theor Biol** 1996 Sep 7;182(1):1–20

Intracoronary gene transfer of immunosuppressive cytokines to cardiac allografts: method and efficacy of adenovirus–mediated transduction. Brauner R, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1059–66; discussion 1066–7

Transplantation of genetically marked cardiac muscle cells. Gojo S, et al. **J Thorac Cardiovasc Surg** 1997 Jan; 113(1):10–8

Gene therapy for lung cancer: enhancement of tumor suppression by a combination of sequential systemic cisplatin and adenovirus–mediated p53 gene transfer. Nguyen DM, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1372–6; discussion 1376–7

In vivo gene transfer into rat arterial walls with novel adeno–associated virus vectors. Arnold TE, et al. **J Vasc Surg** 1997 Feb;25(2):347–55

Antisense basic fibroblast growth factor gene transfer reduces neointimal thickening after arterial injury. Hanna AK, et al. **J Vasc Surg** 1997 Feb;25(2):320–5

Moloney murine leukemia virus–derived retroviral vectors decay intracellularly with a half–life in the range of 5.5 to 7.5 hours. Andreadis ST, et al. **J Virol** 1997 Oct; 71(10):7541–8

Recombinant adeno–associated virus–mediated high–efficiency, transient expression of the murine cationic amino acid transporter (ecotropic retroviral receptor) permits stable transduction of human HeLa cells by ecotropic retroviral vectors. Bertran J, et al. **J Virol** 1996 Oct;70(10):6759–66

Highly efficient and sustained gene transfer in adult neurons with a lentivirus vector. Blömer U, et al. **J Virol** 1997 Sep; 71(9):6641–9

Toward highly efficient cell–type–specific gene transfer with retroviral vectors displaying single–chain antibodies. Chu TH, et al. **J Virol** 1997 Jan;71(1):720–5

Cre/loxP–mediated excision of a neomycin resistance expression unit from an integrated retroviral vector increases long terminal repeat–driven transcription in human hematopoietic cells. Fernex C, et al. **J Virol** 1997 Oct;71(10):7533–40

Helper virus–free transfer of herpes simplex virus type 1 plasmid vectors into neural cells. Fraefel C, et al. **J Virol** 1996 Oct;70(10):7190–7

Constitutive retinoid receptors expressed from adenovirus vectors that specifically activate chromosomal target genes required for differentiation of promyelocytic leukemia and teratocarcinoma cells. Lipkin SM, et al. **J Virol** 1996 Oct; 70(10):7182–9

Gene transfer to human cells using retrovirus vectors produced by a new polytropic packaging cell line. Loiler SA, et al. **J Virol** 1997 Jun;71(6):4825–8

Recombinant adeno–associated virus mediates a high level of gene transfer but less efficient integration in the K562 human hematopoietic cell line. Malik P, et al. **J Virol** 1997 Mar;71(3):1776–83

Capillary endothelial cell tropism of PVC–211 murine leukemia virus and its application for gene transduction. Masuda M, et al. **J Virol** 1997 Aug;71(8):6168–73

Adeno–associated virus type 2–mediated transduction of murine hematopoietic cells with long–term repopulating ability and sustained expression of a human globin gene in vivo. Ponnazhagan S, et al. **J Virol** 1997 Apr; 71(4):3098–104

The effect of viral regulatory protein expression on gene delivery by human immunodeficiency virus type 1 vectors produced in stable packaging cell lines. Srinivasakumar N, et al. **J Virol** 1997 Aug;71(8):5841–8

A hybrid herpesvirus infectious vector based on Epstein–Barr virus and herpes simplex virus type 1 for gene transfer into human cells in vitro and in vivo. Wang S, et al. **J Virol** 1996 Dec;70(12):8422–30

Targeted adenovirus gene transfer to endothelial and smooth muscle cells by using bispecific antibodies. Wickham TJ, et al. **J Virol** 1996 Oct;70(10):6831–8

Enhancement of in vivo adenovirus–mediated gene transfer and expression by prior depletion of tissue macrophages in the target organ. Wolff G, et al. **J Virol** 1997 Jan; 71(1):624–9

Role of viral antigens in destructive cellular immune responses to adenovirus vector–transduced cells in mouse lungs. Yang Y, et al. **J Virol** 1996 Oct;70(10):7209–12

Amplification, expression, and packaging of a foreign gene by giardiavirus in Giardia lamblia. Yu DC, et al. **J Virol** 1996 Dec;70(12):8752–7

Adenovirus–mediated gene transfer to ciliated airway epithelia requires prolonged incubation time. Zabner J, et al. **J Virol** 1996 Oct;70(10):6994–7003

Development of a complementing cell line and a system for construction of adenovirus vectors with E1 and E2a deleted. Zhou H, et al. **J Virol** 1996 Oct;70(10):7030–8

Direct intratumoral gene transfer of the herpes simplex virus thymidine kinase gene with DNA–liposome complexes: growth inhibition of tumors and lack of localization in

normal tissues. Takakuwa K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):166–75

Gene transfer to the patellar tendon. Gerich TG, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(2):118–23

SWR: an inbred strain suitable for generating transgenic mice. Osman GE, et al. **Lab Anim Sci** 1997 Apr;47(2):167–71

Transport of wild mice genetic material by in vitro fertilization, cryopreservation, and embryo transfer. Suzuki H, et al. **Lab Anim Sci** 1996 Dec;46(6):687–8 (16 ref.)

Relationship between the cellular distribution of the alpha(v)beta3/5 integrins and adenoviral infection in salivary glands. Delporte C, et al. **Lab Invest** 1997 Aug; 77(2):167–73

Scatter factor/hepatocyte growth factor gene transfer enhances glioma growth and angiogenesis in vivo. Laterra J, et al. **Lab Invest** 1997 Apr;76(4):565–77

Characterization of in vivo gene transfer into the arterial wall mediated by the Sendai virus (hemagglutinating virus of Japan) liposomes: an effective tool for the in vivo study of arterial diseases. Yonemitsu Y, et al. **Lab Invest** 1996 Sep;75(3):313–23

Arterial gene therapy [letter; comment] Li WW, et al. **Lancet** 1996 Nov 16;348(9038):1381; discussion 1381–2. Comment on: Lancet 1996 Aug 10;348(9024):370–4.

Arterial gene therapy [letter; comment] Schneider H, et al. **Lancet** 1996 Nov 16;348(9038):1380–1; discussion 1381–2. Comment on: Lancet 1996 Aug 10;348(9024):370–4.

Gene transfer–mediated generation of drug–resistant hemopoiesis. Bertolini F, et al. **Leuk Lymphoma** 1996 Mar; 21(1–2):17–23 (31 ref.)

Effective prevention of thrombocytopenia using adenovirus–mediated transfer of HST–11FGF–4 gene: in vivo and in vitro studies. Konishi H, et al. **Leukemia** 1997 Apr;11 Suppl 3:530–2

The 30/35 kDa chymotryptic fragment of fibronectin enhances retroviral–mediated gene transfer in purified chronic myelogenous leukemia bone marrow progenitors. Traycoff CM, et al. **Leukemia** 1997 Jan;11(1):159–67

Kinetics of adenovirus–mediated gene transfer to human lung fibroblasts. Teramoto S, et al. **Life Sci** 1997;61(9):891–7

Use of gonadal primordial germ cells (PGCs) as tools for gene transfer in chickens. Allioli N, et al. **Methods Mol Biol** 1997;62:425–32

Transformation and foreign gene expression in plants by microprojectile bombardment. Daniell H. **Methods Mol Biol** 1997;62:463–89

Transformation of microalgae using silicon carbide whiskers. Dunahay TG, et al. **Methods Mol Biol** 1997;62:503–9

Transformation of the cereals using Agrobacterium. Gould J. **Methods Mol Biol** 1997;62:491–501

Transfection and transformation of human thyroid epithelial cells. Lemoine NR, et al. **Methods Mol Biol** 1997;75:441–7 (13 ref.)

A transferable multiple drug resistance plasmid from Vibrio cholerae O1. Kruse H, et al. **Microb Drug Resist** 1995 Fall; 1(3):203–10

Analysis of sequences flanking the vap regions of Dichelobacter nodosus: evidence for multiple integration events, a killer system, and a new genetic element. Bloomfield GA, et al. **Microbiology** 1997 Feb;143 (Pt 2):553–62

Altered beta–adrenergic receptor signaling in heart failure, in vivo gene transfer via adeno and adeno–associated virus. Ping P, et al. **Microcirculation** 1996 Jun;3(2):225–8

Transgenic grain legumes obtained by in planta electroporation–mediated gene transfer. Chowrira GM, et al. **Mol Biotechnol** 1996 Apr;5(2):85–96

Gene transfer by electroporation. Lurquin PF. **Mol Biotechnol** 1997 Feb;7(1):5–35 (63 ref.)

Bead transfection of adherent cells. Gene transfer into adherent mammalian cells using glass beads. Matthews KE, et al. **Mol Biotechnol** 1996 Jun;5(3):259–61

Transgene inheritance in plants genetically engineered by microprojectile bombardment. Pawlowski WP, et al. **Mol Biotechnol** 1996 Aug;6(1):17–30 (86 ref.)

Adenovirus mediated–gene transfer into cardiomyocytes. Kirshenbaum LA. **Mol Cell Biochem** 1997 Jul; 172(1–2):13–21

DNA transfer into vascular smooth muscle using fusigenic Sendai virus (HVJ)–liposomes. Mann MJ, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):3–12

Novel methods for adenovirus–mediated gene transfer to blood vessels in vivo. Ooboshi H, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):37–46

High–frequency transfer of cloned herpes simplex virus type 1 sequences to mammalian cells by protoplast fusion. Sandri–Goldin RM, et al. **Mol Cell Biol** 1981 Aug; 1(8):743–52

A mouse model of resistance to thyroid hormone produced by somatic gene transfer of a mutant thyroid hormone receptor. Hayashi Y, et al. **Mol Endocrinol** 1996 Jan; 10(1):100–6

Introns boost transgene expression in Drosophila melanogaster. Duncker BP, et al. **Mol Gen Genet** 1997 Apr 16;254(3):291–6

A general system for generating unlabelled gene replacements in bacterial chromosomes. Leenhouts K, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):217–24

Gene transfer and manipulation in the thermophilic cyanobacterium Synechococcus elongatus. Mühlenhoff U, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):93–100

Development of gene transfer methods for Rubrivivax gelatinosus S1: construction, characterization and complementation of a puf operon deletion strain. Ouchane S, et al. **Mol Gen Genet** 1996 Sep 25;252(4):379–85

In–utero gene transfer—an approach to the treatment of inherited lung diseases. McCray PB Jr. **Mol Hum Reprod** 1996 Jul;2(7):469–71

Efficient gene transfer into zebrafish skeletal muscle by intramuscular injection of plasmid DNA. Tan JH, et al. **Mol Mar Biol Biotechnol** 1997 Jun;6(2):98–109

Gene transfer for erythropoiesis enhancement. Naffakh N, et al. **Mol Med Today** 1996 Aug;2(8):343–8 (30 ref.)

Developing particle–mediated gene–transfer technology for research into gene therapy of cancer. Yang NS, et al. **Mol Med Today** 1996 Nov;2(11):476–81 (30 ref.)

A stringently controlled expression system for analysing lateral gene transfer between bacteria. Jaenecke S, et al. **Mol Microbiol** 1996 Jul;21(2):293–300

Detection of microinjected genes in bovine preimplantation embryos with combined DNA digestion and polymerase chain reaction. Hyttinen JM, et al. **Mol Reprod Dev** 1996 Feb;43(2):150–7

Development of a positive method for male stem cell–mediated gene transfer in mouse and pig. Kim JH, et al. **Mol Reprod Dev** 1997 Apr;46(4):515–26

In vivo biolistic technique in control and mdx dystrophic mice. Ausenda CD, et al. **Muscle Nerve** 1996 Jul; 19(7):912–4

Long–term complementation of DNA repair deficient human primary fibroblasts by retroviral transduction of the XPD gene. Quilliet X, et al. **Mutat Res** 1996 Dec 2;364(3):161–9

Augmentation of blood platelet levels by intratracheal administration of an adenovirus vector encoding human thrombopoietin cDNA. Cannizzo SJ, et al. **Nat Biotechnol** 1997 Jun;15(6):570–3

Adenovirus dodecahedron, a new vector for human gene transfer [see comments] Fender P, et al. **Nat Biotechnol** 1997 Jan;15(1):52–6. Comment in: Nat Biotechnol 1997 Jan;15(1):17.

In vitro and in vivo gene delivery mediated by a synthetic polycationic amino polymer. Goldman CK, et al. **Nat Biotechnol** 1997 May;15(5):462–6

Of men in mice [news; comment] Rastan S. **Nat Genet** 1997 Jun;16(2):113–4. Comment on: Nat Genet 1997 Jun;16(2):133–43.

Persistent and therapeutic concentrations of human factor IX in mice after hepatic gene transfer of recombinant AAV vectors. Snyder RO, et al. **Nat Genet** 1997 Jul;16(3):270–6

Functional expression and germline transmission of a human chromosome fragment in chimaeric mice [see comments] Tomizuka K, et al. **Nat Genet** 1997 Jun;16(2):133–43. Comment in: Nat Genet 1997 Jun;16(2):113–4.

Corrective gene transfer in the human skin disorder lamellar ichthyosis. Choate KA, et al. **Nat Med** 1996 Nov; 2(11):1263–7

Measuring gene–transfer efficiency [letter; comment] Comoli P, et al. **Nat Med** 1996 Dec;2(12):1280–1. Comment on: Nat Med 1996 Oct;2(10):1154–6.

Combined chemokine and cytokine gene transfer enhances antitumor immunity [see comments] Dilloo D, et al. **Nat Med** 1996 Oct;2(10):1090–5. Comment in: Nat Med 1997 Feb;3(2):126.

Retrovirus–mediated p53 gene therapy [letter] Estreicher A, et al. **Nat Med** 1996 Nov;2(11):1163

Engineering herpes simplex virus vectors for gene transfer to neurons. Fink DJ, et al. **Nat Med** 1997 Mar;3(3):357–9

Recombinant adeno–associated virus for muscle directed gene therapy. Fisher KJ, et al. **Nat Med** 1997 Mar; 3(3):306–12

Adenoviral gene transfer of ciliary neurotrophic factor and brain–derived neurotrophic factor leads to long–term survival of axotomized motor neurons. Gravel C, et al. **Nat Med** 1997 Jul;3(7):765–70

Identification of primitive human hematopoietic cells capable of repopulating NOD/SCID mouse bone marrow: implications for gene therapy. Larochelle A, et al. **Nat Med** 1996 Dec;2(12):1329–37

Putting muscle to work for gene therapy [news; comment] Miller AD. **Nat Med** 1997 Mar;3(3):278–9. Comment on: Nat Med 1997 Mar;3(3):299–312.

Cell–surface markers for assessing gene transfer into human hematopoietic cells [see comments] Phillips K, et al. **Nat Med** 1996 Oct;2(10):1154–6 (25 ref.). Comment in: Nat Med 1996 Dec;2(12):1280–1.

Neural precursor cells: applications for the study and repair of the central nervous system. Fisher LJ. **Neurobiol Dis** 1997;4(1):1–22 (119 ref.)

Adenovirus mediated gene transfer in organotypic brain slices. Ridoux V, et al. **Neurobiol Dis** 1995 Feb;2(1):49–54

Somatic gene transfer to the adult primate central nervous system: in vitro and in vivo characterization of cells genetically modified to secrete nerve growth factor. Tuszynski MH, et al. **Neurobiol Dis** 1994 Nov;1(1–2):67–78

Repeated exposure to cationic immunoliposomes activates effective gene transfer to human glioma cells. Mizuno M, et al. **Neurol Med Chir (Tokyo)** 1996 Mar;36(3):141–4

Strategies to accomplish targeted gene delivery to muscle cells employing tropism–modified adenoviral vectors. Douglas JT, et al. **Neuromuscul Disord** 1997 Jul;7(5):284–98 (98 ref.)

Utrophin euphoria. Dubowitz V. **Neuromuscul Disord** 1997 Jan;7(1):5–6

Canine fucosidosis: a model for retroviral gene transfer into haematopoietic stem cells. Ferrara ML, et al. **Neuromuscul Disord** 1997 Jul;7(5):361–6

Gene transfer to muscle using herpes simplex virus–based vectors. Huard J, et al. **Neuromuscul Disord** 1997 Jul; 7(5):299–313 (101 ref.)

Cell vehicles for gene transfer to the brain. Taylor R. **Neuromuscul Disord** 1997 Jul;7(5):343–51 (64 ref.)

Naked DNA transport and expression in mammalian cells. Wolff JA. **Neuromuscul Disord** 1997 Jul;7(5):314–8 (32 ref.)

Labeling neural cells using adenoviral gene transfer of membrane–targeted GFP. Moriyoshi K, et al. **Neuron** 1996 Feb;16(2):255–60

Beta APP gene transfer into cultured human muscle induces inclusion–body myositis aspects. Askanas V, et al. **Neuroreport** 1997 Jul 7;8(9–10):2155–8

DC–Chol liposome–mediated gene transfer in rat spinal cord. Yang K, et al. **Neuroreport** 1997 Jul 7;8(9–10):2355–8

Dissociative expression of adenoviral–mediated E. coli LacZ gene between ischemic and reperfused rat brains. Abe K, et al. **Neurosci Lett** 1997 Apr 18;226(1):53–6

Neural toxicity of retroviruses. Hurley MJ, et al. **Neurosci Lett** 1996 Dec 6;220(1):66–8

Expression of exogenous genes transferred into the avian limb in ovo [published erratum appears in Neurosci Lett 1996 Jun 21;211(2):146] Perez F, et al. **Neurosci Lett** 1996 May 31;210(2):99–102

Hypoxanthine–guanine phosphoribosyltransferase (HPRT) expression in the central nervous system of HPRT–deficient mice following adenoviral–mediated gene transfer. Plumb TJ, et al. **Neurosci Lett** 1996 Aug 23; 214(2–3):159–62

Adenoviral–mediated gene transfer into guinea pig cochlear cells in vivo. Raphael Y, et al. **Neurosci Lett** 1996 Mar 29;207(2):137–41

Lipofectin–facilitated transfer of cholecystokinin gene corrects behavioral abnormalities of rats with audiogenic seizures. Zhang LX, et al. **Neuroscience** 1997 Mar; 77(1):15–22

Gene targeting in C57BL/6 ES cells. Successful germ line transmission using recipient BALB/c blastocysts developmentally matured in vitro. Lemckert FA, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):917–8

A new peptide vector for efficient delivery of oligonucleotides into mammalian cells. Morris MC, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2730–6

Gene transfer mediated by alpha2–macroglobulin. Schneider H, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3873–4

A shuttle system for transfer of YACs between yeast and mammalian cells. Simpson K, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4693–9

Introduction of precise alterations into the mouse genome with high efficiency by stable tag–exchange gene targeting: implications for gene targeting in ES cells. Whyatt LM, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2381–8

Inhibition of experimental proliferative vitreoretinopathy by retroviral vector–mediated transfer of suicide gene. Can proliferative vitreoretinopathy be a target of gene therapy?[see comments] Sakamoto T, et al. **Ophthalmology** 1995 Oct;102(10):1417–24. Comment in: Ophthalmology 1995 Oct;102(10):1415–6.

Ex vivo gene transfer to chondrocytes in full–thickness articular cartilage defects: a feasibility study. Kang R, et al. **Osteoarthritis Cartilage** 1997 Mar;5(2):139–43

Adenoviral–mediated herpes simplex virus thymidine kinase gene transfer: regression of hepatic metastasis of pancreatic tumors. Block A, et al. **Pancreas** 1997 Jul;15(1):25–34

DNA transfer in a Biomphalaria glabrata embryonic cell line by DOTAP lipofection. Lardans V, et al. **Parasitol Res** 1996;82(6):574–6

Surfactant protein A–producing cells in human fetal lung are good targets for recombinant adenovirus–mediated gene transfer. Messina E, et al. **Pediatr Res** 1996 Jul; 40(1):142–7

Adenovirus–mediated in vivo gene transfer rapidly protects ornithine transcarbamylase–deficient mice from an ammonium challenge. Ye X, et al. **Pediatr Res** 1997 Apr; 41(4 Pt 1):527–34

In vivo gene transfer by intravenous administration of stable cationic lipid/DNA complex. Hofland HE, et al. **Pharm Res** 1997 Jun;14(6):742–9

Non–polarized secretion of mouse interferon–beta from gene–transferred human intestinal Caco–2 cells. Kawabata K, et al. **Pharm Res** 1997 Apr;14(4):483–5

N–acyl–(alpha, gamma diaminobutyric acid)n hydrazide as an efficient gene transfer vector in mammalian cells in culture. Legendre JY, et al. **Pharm Res** 1997 May; 14(5):619–24

New cationic lipid formulations for gene transfer. Liu F, et al. **Pharm Res** 1996 Dec;13(12):1856–60

The use of sonication for the efficient delivery of plasmid DNA into cells. Wyber JA, et al. **Pharm Res** 1997 Jun; 14(6):750–6

Retrofitting YACs for direct DNA transfer into plant cells. Adam G, et al. **Plant J** 1997 Jun;11(6):1349–58

Introduction and expression of foreign DNA in isolated spinach chloroplasts by electroporation. To KY, et al. **Plant J** 1996 Oct;10(4):737–43

T–DNA integration into genomic DNA of rice following Agrobacterium inoculation of isolated shoot apices. Park SH, et al. **Plant Mol Biol** 1996 Dec;32(6):1135–48

Conservation of the genetic switch between replication and transfer genes of IncP plasmids but divergence of the

replication functions which are major host-range determinants. Thorsted PB, et al. **Plasmid** 1996 Sep; 36(2):95–111

Synthetic virus-like gene transfer system. Szala S. **Postepy Biochem** 1995;41(5 Suppl):318–21 (22 ref.)

In vivo transfection of rat liver with hepatitis C virus cDNA using cationic liposome-mediated gene delivery. Hayashi N, et al. **Princess Takamatsu Symp** 1995;25:143–9 (22 ref.)

Potentiation of beta-adrenergic signaling by gene transfer. Drazner MH, et al. **Proc Assoc Am Physicians** 1997 May; 109(3):220–7 (54 ref.)

Persistence in muscle of an adenoviral vector that lacks all viral genes. Chen HH, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1645–50

Increased fluid secretion after adenoviral-mediated transfer of the aquaporin-1 cDNA to irradiated rat salivary glands. Delporte C, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3268–73

Ultrarapid, highly efficient viral gene transfer to the heart. Donahue JK, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4664–8

Tumor necrosis factor alpha plays a central role in immune-mediated clearance of adenoviral vectors. Elkon KB, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2; 94(18):9814–9

Efficient photoreceptor-targeted gene expression in vivo by recombinant adeno-associated virus. Flannery JG, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6916–21

Stable gene transfer and expression of human blood coagulation factor IX after intramuscular injection of recombinant adeno-associated virus. Herzog RW, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5804–9

Transient immunomodulation with anti-CD40 ligand antibody and CTLA4Ig enhances persistence and secondary adenovirus-mediated gene transfer into mouse liver. Kay MA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4686–91

Gene delivery to skeletal muscle results in sustained expression and systemic delivery of a therapeutic protein. Kessler PD, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14082–7

Persistent expression of human clotting factor IX from mouse liver after intravenous injection of adeno-associated virus vectors. Koeberl DD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1426–31

Virus-mediated gene transfer into hippocampal CA1 region restores long-term potentiation in brain-derived neurotrophic factor mutant mice. Korte M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12547–52

Replication-defective herpes simplex virus vectors for gene transfer in vivo. Marconi P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11319–20 (13 ref.)

Cell-surface receptors for retroviruses and implications for gene transfer. Miller AD. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11407–13 (52 ref.)

Efficient transfer, integration, and sustained long-term expression of the transgene in adult rat brains injected with a lentiviral vector. Naldini L, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11382–8

Adenovirus-mediated gene transfer and expression of human beta-glucuronidase gene in the liver, spleen, and central nervous system in mucopolysaccharidosis type VII mice. Ohashi T, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1287–92

Gene transfer by guanidinium-cholesterol cationic lipids into airway epithelial cells in vitro and in vivo. Oudrhiri N, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1651–6

Pseudotyping of murine leukemia virus with the envelope glycoproteins of HIV generates a retroviral vector with specificity of infection for CD4-expressing cells. Schnierle BS, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8640–5

Antigen presentation in retroviral vector-mediated gene transfer in vivo. Song ES, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1943–8

Long-term expression of erythropoietin in the systemic circulation of mice after intramuscular injection of a plasmid DNA vector. Tripathy SK, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10876–80

Reversible immortalization of mammalian cells mediated by retroviral transfer and site-specific recombination. Westerman KA, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8971–6

In vivo role of B lymphocytes in somatic transgene immunization. Xiong S, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6352–7

Adenovirus-mediated gene delivery into neuronal precursors of the adult mouse brain. Yoon SO, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11974–9

Disruption of overlapping transcripts in the ROSA beta geo 26 gene trap strain leads to widespread expression of beta-galactosidase in mouse embryos and hematopoietic cells. Zambrowicz BP, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3789–94

Radiopharmaceuticals to monitor gene transfer. Wiebe LI, et al. **Q J Nucl Med** 1997 Jun;41(2):79–89 (66 ref.)

Improved adenoviral vectors: cautious optimism for gene therapy. Channon KM, et al. **QJM** 1997 Feb;90(2):105–9 (42 ref.)

Failure to produce transgenic offspring by intra-tubal insemination of gilts with DNA-treated sperm. Gandolfi F, et al. **Reprod Fertil Dev** 1996;8(7):1055–60

Chromosomal insertion of foreign DNA. Bishop JO. **Reprod Nutr Dev** 1996;36(6):607–18 (45 ref.)

In vivo gene transfer into the blastoderm of early developmental stage of chicken. Inada S, et al. **Reprod Nutr Dev** 1997;37(1):13–20

"Naked" DNA transfer technology for genetic vaccination against infectious disease. Fazio VM. **Res Virol** 1997 Mar-Apr;148(2):101–8 (49 ref.)

Gene transfer by adenovirus in smooth muscle cells. Yu MF, et al. **Respir Physiol** 1996 Aug;105(1–2):155–62

A genetic study of a Staphylococus aureus plasmid involving cure and transference. Darini AL. **Rev Paul Med** 1996 Jan-Feb;114(1):1068–72

Sensitization to morphine induced by viral-mediated gene transfer. Carlezon WA Jr, et al. **Science** 1997 Aug 8; 277(5327):812–4

Molecular biological intervention. Isaka Y, et al. **Semin Nephrol** 1996 Nov;16(6):591–8 (23 ref.)

Gene manipulation and transfer of the plasminogen and coagulation system in mice. Carmeliet P, et al. **Semin Thromb Hemost** 1996;22(6):525–42 (131 ref.)

Biological principles and clinical development of prostate cancer gene therapy. Sanda MG. **Semin Urol Oncol** 1997 Feb;15(1):43–55 (77 ref.)

Production and characterization of human 293 cell lines expressing the site-specific recombinase Cre. Chen L, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):477–88

Delivery of cytosolic liver arginase into the mitochondrial matrix space: a possible novel site for gene replacement therapy. Wissmann PB, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):489–98

Transfer of genes to chondrocytic cells of the lumbar spine. Proposal for a treatment strategy of spinal disorders by local gene therapy. Wehling P, et al. **Spine** 1997 May 15; 22(10):1092–7

New therapeutic approaches based on gene transfer techniques. Chong H, et al. **Springer Semin Immunopathol** 1996;18(2):149–70 (140 ref.)

Long-term expression of human growth hormone (hGH) in mice containing allogeneic yolk sac cell derived neovascular implants expressing hGH. Wei Y, et al. **Stem Cells** 1996 Mar;14(2):232–8

Gene transfer to cerebral blood vessels after subarachnoid hemorrhage. Muhonen MG, et al. **Stroke** 1997 Apr; 28(4):822–8; discussion 828–9

Adenovirus-mediated gene transfer using ex vivo perfusion of the heart graft. Shiraishi M, et al. **Surg Today** 1996; 26(8):624–8

Adenovirus-mediated transfer of tissue-type plasminogen activator gene to human endothelial cells. Sugawara Y, et al. **Surgery** 1997 Jul;122(1):91–100

Gene transfer and therapeutic drug monitoring. Brenner MK. **Ther Drug Monit** 1996 Aug;18(4):322–7

Cardiovascular gene therapy: current concepts. Fox JC. **Ther Drug Monit** 1996 Aug;18(4):410–22 (110 ref.)

Gene exchange and antimicrobial resistance in gram-positive cocci. Schaberg DR. **Trans Am Clin Climatol Assoc** 1996; 108:59–66; discussion 66–8 (18 ref.)

Sperm as a carrier to introduce an exogenous DNA fragment into the oocyte of Japanese abalone (Haliotis divorsicolor suportexta). Tsai HJ, et al. **Transgenic Res** 1997 Jan; 6(1):85–95

Use of biolistic particle accelerator to introduce genes into isolated islets of Langerhans. Bartlett RJ, et al. **Transplant Proc** 1997 Jun;29(4):2201–2

A methodology for an efficient and reproducible gene transfer into porcine islets using cationic liposomes. Benhamou PY, et al. **Transplant Proc** 1997 Jun;29(4):2203

IL-10 and TGF-beta gene transfer for xenogeneic islet transplantation: comparison of effect in concordant vs discordant combination. Deng S, et al. **Transplant Proc** 1997 Jun;29(4):2204–5

Adenoviral-mediated gene transfer to the small intestinal isograft. Hamilton TE, et al. **Transplant Proc** 1996 Oct; 28(5):2444

Adenovirus-mediated gene transfer to the xenogeneic liver in liver xenotransplantation: the transduction of complement regulatory factor genes (DAF and HRF20). Hayashi S, et al. **Transplant Proc** 1997 Jun;29(4):2211

Effect of CTLA4-Ig gene transfer using adenoviral vector in organ and cell transplantation. Hayashi S, et al. **Transplant Proc** 1997 Jun;29(4):2212

Adenovirus-mediated gene transfer of antisense ribozyme for alpha (1,3)galactosyltransferase gene and alpha (1,2)fucosyltransferase gene in xenotransplantation. Hayashi S, et al. **Transplant Proc** 1997 Jun;29(4):2213

Gene expression via direct injection of plasmid vector into the thymus. Li H, et al. **Transplant Proc** 1997 Jun;29(4):2220

Standardization of procedure for efficient ex vivo gene transfer into porcine pancreatic islets with cationic liposomes. Benhamou PY, et al. **Transplantation** 1997 Jun 27;63(12):1798–803

Adenovirus-mediated gene transfer in the transplant setting: early events after orthotopic transplantation of liver allografts expressing TGF-beta1. Drazan KE, et al. **Transplantation** 1996 Oct 27;62(8):1080–4

Comparison of adenovirus gene transfer to vascular endothelial cells in cell culture, organ culture, and in vivo. Merrick AF, et al. **Transplantation** 1996 Oct 27; 62(8):1085–9

A nonviral vector system for efficient gene transfer to corneal endothelial cells via membrane integrins. Shewring L, et al. **Transplantation** 1997 Sep 15;64(5):763–9

The record of horizontal gene transfer in Salmonella. Bäumler AJ. **Trends Microbiol** 1997 Aug;5(8):318–22 (44 ref.)

Horizontal gene transfer among group A streptococci: implications for pathogenesis and epidemiology. Kehoe MA, et al. **Trends Microbiol** 1996 Nov;4(11):436–43 (50 ref.)

Selfish operons and speciation by gene transfer. Lawrence JG. **Trends Microbiol** 1997 Sep;5(9):355–9 (25 ref.)

The coming of age of the GDNF family and its receptors: gene delivery in a rat Parkinson model may have clinical implications. Olson L. **Trends Neurosci** 1997 Jul;20(7):277–9 (22 ref.)

Study of the delivery of the gD gene of pseudorabies virus to one-day-old piglets by adenovirus or plasmid DNA as ways to by-pass the inhibition of immune response by colostral antibodies. Le Potier MF, et al. **Vet Microbiol** 1997 Apr;55(1–4):75–80

Gentamicin resistance gene transfer from Enterococcus faecalis and E. faecium to Staphylococcus aureus, S. intermedius and S. hyicus. Noble WC, et al. **Vet Microbiol** 1996 Sep;52(1–2):143–52

Adenovirus-mediated transfer of human factor IX gene in immunodeficient and normal mice: evidence for prolonged stability and activity of the transgene in liver. Yao SN, et al. **Viral Immunol** 1996;9(3):141–53

Gene transfer using replication-defective human foamy virus vectors. Bieniasz PD, et al. **Virology** 1997 Aug 18; 235(1):65–72

Transduction of the human immunodeficiency virus type 1 promoter into human chromosomal DNA by adeno-associated virus: effects on promoter activity. Nahreini P, et al. **Virology** 1997 Jul 21;234(1):42–50

Retroviral pseudo-virus carrying the envelope proteins of neurotropic Friend murine leukemia virus effectively transferred retroviral vector into glial cells. Ikeda T, et al. **Virus Res** 1996 Jun;42(1–2):97–106

[Advances in the study on the inhibition of vascular smooth muscle proliferation by gene rearrangement and gene transfer techniques] Liang H, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):114–7 (15 ref.) (Eng. Abstr.) **(Chi)**

[Gene therapy of malignant tumors. Prospects of cytokine gene transfer vaccines] Bubeník J. **Cas Lek Cesk** 1997 Jan 8;136(1):17–21 (49 ref.) (Eng. Abstr.) **(Cze)**

[Will transfer of cytostatic drug resistance genes increase hematopoiesis resistance in the treatment of malignant tumors?] Jelínek J, et al. **Cas Lek Cesk** 1997 Jan 8; 136(1):22–6 (Eng. Abstr.) **(Cze)**

[New strategy for RNA vectorization in mammalian cells. Use of a peptide vector] Vidal P, et al. **C R Acad Sci III** 1997 Apr;320(4):279–87 (Eng. Abstr.) **(Fre)**

[Gene transfer with amino lipids and amino polymers] Behr JP. **C R Seances Soc Biol Fil** 1996;190(1):33–8 (11 ref.) (Eng. Abstr.) **(Fre)**

[Aerosol administration of a replication defective recombinant adenovirus expressing normal human cDNA-CFTR in the respiratory tractus in patients with cystic fibrosis] Bellon G, et al. **C R Seances Soc Biol Fil** 1996;190(1):109–42 (Eng. Abstr.) **(Fre)**

[Gene transfer in human hematopoietic stem cells isolated from peripheral blood] Mannoni P. **C R Seances Soc Biol Fil** 1996;190(1):67–75 (26 ref.) (Eng. Abstr.) **(Fre)**

[Gene therapy in lysosomal diseases] Moullier P, et al. **C R Seances Soc Biol Fil** 1996;190(1):45–51 (18 ref.) (Eng. Abstr.) **(Fre)**

[Development of adenoviral vectors in gene therapy: application to gene transfer in muscles] Ragot T, et al. **C R Seances Soc Biol Fil** 1996;190(1):13–31 (37 ref.) (Eng. Abstr.) **(Fre)**

[Selection of retroviral vector producing cell lines and gene transfer into hematopoietic cells] Bagnis C, et al. **Hematol Cell Ther** 1996 Apr;38(2):207–9 (Eng. Abstr.) **(Fre)**

[Applications of transgenesis in xenotransplantation. Experimental results and clinical prospects] Malassagne B, et al. **Presse Med** 1996 Sep 21;25(27):1247–50 (24 ref.) (Eng. Abstr.) **(Fre)**

[A model of congenital erythropoietic porphyria for gene transfer in hematopoietic cells] de Verneuil H, et al. **Transfus Clin Biol** 1997;4(3):263–6 (Eng. Abstr.) **(Fre)**

[Adenovirus gene transfer in xenogenic nerve transplantation] Hebebrand D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:289–93 (Eng. Abstr.) **(Ger)**

[Organ transplantation--gene therapy: interactions and transitions] Manns MP. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:367–70 (Eng. Abstr.) **(Ger)**

[Receptor mediated gene transfer in squamous epithelial carcinoma of the head-neck area] Wollenberg B, et al. **Laryngorhinootologie** 1997 Jul;76(7):411–4 (Eng. Abstr.) **(Ger)**

[Vectors for gene therapy] Schneider H. **Med Monatsschr Pharm** 1997 Apr;20(4):98–102 (50 ref.) **(Ger)**

[Possibilities of gene therapy in traumatic and degenerative

articular lesions. Current status of experimental and initial clinical applications] Gerich TG, et al. **Orthopade** 1997 May;26(5):450–8 (92 ref.) (Eng. Abstr.) **(Ger)**

[Functional success follow-up in mucoviscidosis gene therapy] Kersting U. **Pneumologie** 1996 Dec;50 Suppl 3:867–72 (58 ref.) **(Ger)**

[Cardiovascular molecular genetics and gene therapy. Introduction to the terminology and technique] Eppenberger HM. **Schweiz Med Wochenschr** 1996 Oct 12; 126(41):1716–20 (Eng. Abstr.) **(Ger)**

[Gene therapy with wild-type p53 in lung tumors] Dunst J. **Strahlenther Onkol** 1997 Aug;173(8):431–2 **(Ger)**

[Virally mediated gene transfer in the patellar tendon. An experimental study in rabbits] Gerich TG, et al. **Unfallchirurg** 1997 May;100(5):354–62 (Eng. Abstr.) **(Ger)**

[Gene transfer into the patellar tendon of rabbits: a preliminary study of locoregional expression of growth factors] Gerich TG, et al. **Wien Klin Wochenschr** 1997 Jun 6;109(11):384–9 (Eng. Abstr.) **(Ger)**

[Dynamics of pathogenic genes of bacteria: horizontal gene transfer and and gene conversion] Nakayama K. **Fukuoka Igaku Zasshi** 1996 Aug;87(8):173–7 (4 ref.) **(Jpn)**

[Bio-chemoprevention of cancer] Nishino H. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1047–52 (2 ref.) (Eng. Abstr.) **(Jpn)**

[Development of collagen vascular diseases and production of autoantibodies in HTLV-I env-pX transgenic rats] Yamazaki H. **Hokkaido Igaku Zasshi** 1996 May; 71(3):325–43 (Eng. Abstr.) **(Jpn)**

[Recombinant virus-mediated transfer of the wild-type p53 gene is a potent therapeutic strategy for human cancer] Fujiwara T, et al. **Hum Cell** 1996 Mar;9(1):25–30 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Development of non-viral gene delivery system and its applications] Kaneda Y. **Nippon Rinsho** 1996 Oct; 54(10):2829–38 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Problems of gene transfer to human airway in the patients with respiratory diseases] Ohwada A. **Nippon Rinsho** 1996 Feb;54(2):329–33 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Development of gene delivery system by using DNA complexes and their application to antisense drug] Sato T, et al. **Nippon Rinsho** 1996 Oct;54(10):2857–66 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Role of TGF-beta and PDGF on the pathogenesis of pulmonary fibrosis--analysis by in vivo gene transfer] Yoshida M, et al. **Nippon Rinsho** 1996 Feb;54(2):418–22 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Development of in vivo gene transfer methods towards future gene therapy] Kaneda Y, et al. **Rinsho Byori** 1997 Feb;45(2):99–105 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Recombinant fibronectin fragments in stem cell gene therapy] Kato I. **Tanpakushitsu Kakusan Koso** 1997 Jun; 42(8):1296–305 (33 ref.) **(Jpn)**

[Kinetics of hematopoietic clones in reconstituted mice] Drize NI, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):180–3 **(Rus)**

[Interaction of the system inhibiting the genetic transfer of types finU and finV in polyplasmid complexes of Escherichia coli K-12 cells] Grishina EV, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):619–22 **(Rus)**

[Directed transfer of the human apolipoprotein A-I gene and bacterial genes-markers into rat liver] Perevozchikov AP, et al. **Dokl Akad Nauk** 1997 Feb;352(4):571–4 **(Rus)**

[The effect of the implantation of the human apo A-I gene on the function of the hepatocyte plasma membrane in rats] Frol'kis VV, et al. **Ukr Biokhim Zh** 1996 Mar-Apr; 68(2):73–7 (Eng. Abstr.) **(Rus)**

[Nonviral methods of gene transfer in gene therapy] Zhdanov RI, et al. **Vopr Med Khim** 1997 Jan-Feb;43(1):3–12 (100 ref.) (Eng. Abstr.) **(Rus)**

[Gene transfer into hematopoietic cells: the present and the future] Barquinero Máñez J, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):272–6 (34 ref.) **(Spa)**

[Nephrology and gene therapy: basic science for the clinician (editorial)] Bosch RJ. **Medicina (B Aires)** 1996;56(3):313–6 **(Spa)**

ADVERSE EFFECTS

Replication-deficient adenoviral vector for gene transfer potentiates airway neurogenic inflammation. Piedimonte G, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):250–8

Immune-mediated destruction of transfected muscle fibers after direct gene transfer with antigen-expressing plasmid DNA. Davis HL, et al. **Gene Ther** 1997 Mar;4(3):181–8

Safety of intrapleurally administered recombinant adenovirus carrying herpes simplex thymidine kinase DNA followed by ganciclovir therapy in nonhuman primates. Kucharczuk JC, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2225–33

Basis of pulmonary toxicity associated with cationic lipid-mediated gene transfer to the mammalian lung. Scheule RK, et al. **Hum Gene Ther** 1997 Apr 10; 8(6):689–707

STANDARDS

On the limits of enhancement in human gene transfer: drawing the line. Torres JM. **J Med Philos** 1997 Feb; 22(1):43–53

Stable and efficient gene transfer into the retina using an HIV-based lentiviral vector. Miyoshi H, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10319–23

TRENDS

Advances in cardiovascular gene transfer. Li K, et al. **Cardiologia** 1997 Jan;42(1):39–46 (85 ref.)

[Basic research in uro-oncology--molecular biology emphasis and gene transfer techniques (editorial)] Gschwend JE, et al. **Urologe A** 1996 Sep;35(5):355–6 **(Ger)**

VETERINARY

Strategies for the production of transgenic chicken. Etches RJ, et al. **Methods Mol Biol** 1997;62:433–50

[Methods of production and perspectives for use of transgenic domestic animals] Espanion G, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep; 103(8–9):320–8 (147 ref.) (Eng. Abstr.) **(Ger)**

GENEALOGY AND HERALDRY

see related

EMBLEMS AND INSIGNIA

Coalescents and genealogical structure under neutrality. Donnelly P, et al. **Annu Rev Genet** 1995;29:401–21 (52 ref.)

The genealogy of samples in models with selection. Neuhauser C, et al. **Genetics** 1997 Feb;145(2):519–34

Mitochondrial DNA sequence variation across linguistic and geographic boundaries in Italy. Barbujani G, et al. **Hum Biol** 1996 Apr;68(2):201–15

Genealogical information and the structure of rural Latin-American populations: reality and fantasy. Castilla EE, et al. **Hum Hered** 1996 Sep-Oct;46(5):241–55

Ophthalmic genetics: a genealogical guide to sources in England and Wales. Jay M. **J Med Genet** 1995 Dec; 32(12):946–50

GENERAL ADAPTATION SYNDROME

ABC of work related disorders. Stress at work. von Onciul J. **BMJ** 1996 Sep 21;313(7059):745–8 (0 ref.)

[Clinical bases of dynamics of adaptative reaction in children in the development of acute inflammation in the abdominal cavity. Possibilities of the concept "abdominal stress" in surgery] Moskalenko VZ, et al. **Klin Khir** 1996;(4):38–41 **(Rus)**

DIAGNOSIS

[Clinical and physiopathological evaluation of general adaptation syndrome in patients with complicated closed thoracic trauma] Burluka VV. **Klin Khir** 1996;(10):10–2 **(Rus)**

ETIOLOGY

[Risk factors and some pathological features in relation to the type of brain neurodynamic pattern] Vasilevskii NN, et al. **Vestn Ross Akad Med Nauk** 1996;(9):14–8 (12 ref.) **(Rus)**

IMMUNOLOGY

Shaking up immunity: psychological and immunologic changes after a natural disaster [see comments] Solomon GF, et al. **Psychosom Med** 1997 Mar-Apr;59(2):114–27. Comment in: Psychosom Med 1997 Mar-Apr;59(2):142–3.

PHYSIOPATHOLOGY

Vestibular function and sensory interaction in altered gravity. Kornilova LN. **Adv Space Biol Med** 1997;6:275–313 (73 ref.)

The central adaptation syndrome: psychosocial stress as a trigger for adaptive modifications of brain structure and brain function. Huether G. **Prog Neurobiol** 1996 Apr; 48(6):569–612 (455 ref.)

Short- and long-term association between uric acid and a natural disaster [see comments] Trevisan M, et al. **Psychosom Med** 1997 Mar-Apr;59(2):109–13. Comment in: Psychosom Med 1997 Mar-Apr;59(2):142–3.

[Stress research between molecular and supra-molecular observations] Oehme P, et al. **Med Monatsschr Pharm** 1996 Sep;19(9):270–4 (7 ref.) **(Ger)**

[The effect of adrenoreceptors on the lysosomes of neutrophilic granulocytes during the development of the adaptation syndrome] Vovk SV, et al. **Fiziol Zh** 1996; 42(1–2):83–90 (Eng. Abstr.) **(Ukr)**

GENERAL ANESTHETICS see **ANESTHETICS, GENERAL**

GENERAL PARALYSIS see **NEUROSYPHILIS**

GENERAL PARESIS see **NEUROSYPHILIS**

GENERAL PRACTICE see **FAMILY PRACTICE**

GENERAL PRACTICE, DENTAL

Selection of restorative materials in general dental practice in Sweden. Mjör IA. **Acta Odontol Scand** 1997 Jan; 55(1):53–7

Comment on "Vive la différence!" [letter] Luke LS, et al. **Am J Orthod Dentofacial Orthop** 1997 Feb;111(2):19A

A study of letters between general dental practitioners and consultant orthodontists. Hammond M, et al. **Br Dent J** 1996 Apr 6;180(7):259–63

Lower third molar treatment planning ability of general dental practitioners and oral maxillofacial surgeons using receiver operating characteristics methodology [see comments] Joynson OB, et al. **Br Dent J** 1996 Dec 7–21; 181(11–12):411–5. Comment in: Br Dent J 1997 Mar 22;182(6):207.

A qualitative investigation of factors governing dentists' treatment philosophies. Kay EJ, et al. **Br Dent J** 1996 Mar 9;180(5):171–6

The efficacy of local anaesthetics administered by general dental practitioners. Matthews R, et al. **Br Dent J** 1997 Mar 8;182(5):175–8

Purchaser/provider: what does it mean and how might it affect GDPs? Renshaw J. **Br Dent J** 1996 Feb 24; 180(4):152–6

New stressors for GDPs in the past 10 years. Waddington TJ. **Br Dent J** 1997 Feb 8;182(3):82–3

The referral practice of general medical practitioners to the surgical specialties: implications for the future. McArdle PJ, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):394–9

Orthodontic treatment planning by general dental practitioners. Parfitt AA, et al. **Br J Orthod** 1996 Nov; 23(4):359–65

Patterns of and reasons for tooth extractions in general dental practice in Ontario, Canada. Murray H, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):196–200

Dental surgery and the general practitioner [see comments] Christensen GJ. **J Am Dent Assoc** 1997 Jan;128(1):85–7. Comment in: J Am Dent Assoc 1997 May;128(5):548.

G.P. vs. specialist [letter; comment] Wayne GJ. **J Am Dent Assoc** 1997 May;128(5):548. Comment on: J Am Dent Assoc 1997 Jan;128(1):85–7.

GP vs. specialist [letter] Wirth KE. **J Am Dent Assoc** 1997 Sep;128(9):1208

The achievement and maintenance of inter-examiner consistency in the assessment of plaque and gingivitis during a multicentre study based in general dental practices. Eaton KA, et al. **J Clin Periodontol** 1997 Mar;24(3):183–8

The use of lignocaine in dental practice: results of a survey of a group of general and hospital dental practitioners. Rowson JE, et al. **J Dent** 1997 Sep;25(5):431–3

General dental practice: the missing link in dental research [editorial] Mjör IA, et al. **J Dent Res** 1997 Apr;76(4):820–1

James E. Spencer receives Distinguished Service Award. **N Y State Dent J** 1997 Feb;63(2):59

The family of dentistry. Wolff J. **N Y State Dent J** 1996 Mar;62(3):32–7

ECONOMICS

The relationship between price of services, quality of care, and patient time costs for general dental practice. Whitney CW, et al. **Health Serv Res** 1997 Feb;31(6):773–90

Pediatric and general dentists' participation in the North Carolina Medicaid program: trends from 1986 to 1992. Venezie RD, et al. **Pediatr Dent** 1997 Mar-Apr;19(2):114–7

EDUCATION

Trends in postgraduate education in general dentistry. Kittipibul P, et al. **Aust Dent J** 1997 Jun;42(3):203–8 (33 ref.)

A field trial of an orthodontic treatment need learning package for general dental practitioners. Burden DJ, et al. **Br Dent J** 1997 Aug 23;183(4):123–9

Vocational training [letter; comment] [see comments] Caplin RL. **Br Dent J** 1996 Sep 7;181(5):166. Comment on: Br Dent J 1996 May 25;180(10):363–4. Comment in: Br Dent J 1997 Jan 11;182(1):9.

To care or not to care (with apologies to William Shakespeare). Davis LG. **Br Dent J** 1997 Aug 23; 183(4):117–9

MGDS [letter; comment] Ferraris S. **Br Dent J** 1997 May 24;182(10):371. Comment on: Br Dent J 1996 Dec 7–21;181(11–12):396–7.

Is GPT important to GDPs? [editorial] Grace M. **Br Dent J** 1996 Feb 24;180(4):121

A worthwhile investment? [letter; comment] Holt V. **Br Dent J** 1997 Mar 8;182(5):169. Comment on: Br Dent J 1996 Dec 7–21;181(11–12):396–7.

Vocational training [letter; comment] Isaacs P. **Br Dent J** 1997 Jan 11;182(1):9. Comment on: Br Dent J 1996 Sep 7;181(5):166.

The continuum of dental education--one year on. Murray JJ. **Br Dent J** 1996 Feb 24;180(4):149–51

MGDS-a worthwhile investment? [see comments] Nathan KA. **Br Dent J** 1996 Dec 7–21;181(11–12):396–7. Comment in: Br Dent J 1997 Mar 8;182(5):169. Comment in: Br Dent J 1997 May 24;182(10):371.

Computer assisted learning (CAL) of oral manifestations of HIV disease. Porter SR, et al. **Br Dent J** 1996 Sep 7; 181(5):173–7

Motivational factors in the choice of postdoctoral general dentistry programs. Lockhart PB, et al. **J Dent Educ** 1997 Mar;61(3):297–304

Linking postdoctoral general dentistry programs with private practice settings. Weaver RG, et al. **J Dent Educ** 1997 Mar; 61(3):305–11

GENERAL PRACTICE, DENTAL

ORGANIZATION & ADMINISTRATION

Professional metamorphosis [editorial] Campbell CJ. **Br Dent J** 1996 Dec 7-21;181(11-12):392-3

A novel approach to providing children's dentistry in general dental practice [see comments] Crawford A, et al. **Br Dent J** 1997 Mar 8;182(5):165-7. Comment in: Br Dent J 1997 May 24;182(10):370. Comment in: Br Dent J 1997 Jun 28;182(12):453.

The prevention of failed appointments in general dental practice. Reekie D, et al. **Br Dent J** 1997 Feb 22; 182(4):139-43

Productivity among Australian private general dental practitioners across a ten year period. Brennan DS, et al. **Int Dent J** 1996 Jun;46(3):139-45

STANDARDS

The benefits of clinical audit in general practice and vocational training. Cure RJ, et al. **Br Dent J** 1996 Aug 24;181(4):119-20

Initial experience of the ORATEL computerised information tools in general practice. Ireland RS. **Br Dent J** 1996 Oct 19;181(8):289-95

Opinions of dental consultants on the standard of referral letters in dentistry [published erratum appears in Br Dent J 1997 Feb 22;182(4):133] McAndrew R, et al. **Br Dent J** 1997 Jan 11;182(1):22-5

Health gain in orthodontics: a comparison of the general dental services and the hospital service in England and Wales. Richmond S, et al. **Community Dent Health** 1996 Sep;13(3):128-32

The relationship between price of services, quality of care, and patient time costs for general dental practice. Whitney CW, et al. **Health Serv Res** 1997 Feb;31(6):773-90

Certification of competence: a national standard for dentistry in Canada. Boyd MA, et al. **J Can Dent Assoc** 1996 Dec; 62(12):928-30

GENERAL PRACTITIONERS see **PHYSICIANS, FAMILY**

GENERAL SYSTEMS THEORY see **SYSTEMS THEORY**

GENERALISTS see **PHYSICIANS, FAMILY**

GENERALIZATION (PSYCHOLOGY)

Planned Activities Training for mothers of children with developmental disabilities. Community generalization and follow-up. Huynen KB, et al. **Behav Modif** 1996 Oct; 20(4):406-27

Behavioral momentum. Implications and development from reinforcement theories. Plaud JJ, et al. **Behav Modif** 1996 Apr;20(2):183-201 (38 ref.)

Generalized and event-specific hopelessness: salvaging the mediation hypothesis of the hopelessness theory. Lynd-Stevenson RM. **Br J Clin Psychol** 1997 Feb;36 (Pt 1):73-83

Generalization from single sentence to multisentence production in severely aphasic patients. Weinrich M, et al. **Brain Lang** 1997 Jun 15;58(2):327-52

Training and generalization of affective behavior displayed by youth with autism. Gena A, et al. **J Appl Behav Anal** 1996 Fall;29(3):291-304

Human behavioral momentum: implications for applied behavior analysis and therapy. Plaud JJ, et al. **J Behav Ther Exp Psychiatry** 1996 Jun;27(2):139-48

Predicting the extension of equivalence classes from primary generalization gradients: the merger of equivalence classes and perceptual classes. Fields L, et al. **J Exp Anal Behav** 1997 Jul;68(1):67-91

Inferring category characteristics from sample characteristics: inductive reasoning and social projection. Krueger J, et al. **J Exp Psychol Gen** 1996 Mar;125(1):52-68

On the generality of the revelation effect. Westerman DL, et al. **J Exp Psychol Learn Mem Cogn** 1996 Sep; 22(5):1147-53

The ability to detect deceit generalizes across different types of high-stake lies. Frank MG, et al. **J Pers Soc Psychol** 1997 Jun;72(6):1429-39

Anti-black prejudice as a function of exposure to the negative behavior of a single black person. Henderson-King EI, et al. **J Pers Soc Psychol** 1996 Oct;71(4):654-64

Origins of generalized control expectancies: reported child stress and observed maternal control and warmth. Carton JS, et al. **J Soc Psychol** 1996 Dec;136(6):753-60

Learning and generalization in cascade network architectures. Littmann E, et al. **Neural Comput** 1996 Oct 1;8(7):1521-39

Specificity and variability of practice with young children. Graydon J, et al. **Percept Mot Skills** 1996 Aug;83(1):83-8

On the benefits of direct teaching of spelling in children's language arts instruction. Stromer R. **Percept Mot Skills** 1996 Oct;83(2):701-2

DRUG EFFECTS

Cross-generalization between a cocaine cue and two antihistamines. Gauvin DV, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):281-8

Selectivity in the generalization profile in baboons trained to discriminate lorazepam: benzodiazepines, barbiturates and other sedative/anxiolytics. Ator NA, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1442-57

PHYSIOLOGY

[Generalization by the relative sign of "top" in bottlenose dolphins] Starodubtsev IuD, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec; 46(6):1032-40 (Eng. Abstr.) **(Rus)**

GENERALIZATION, RESPONSE

Assigned versus participative goal setting and response generalization: managing injury control among professional pizza deliverers. Ludwig TD, et al. **J Appl Psychol** 1997 Apr;82(2):253-61

Generalization effects of training on the Wisconsin Card Sorting Test for schizophrenia patients. Bellack AS, et al. **Schizophr Res** 1996 May;19(2-3):189-94

DRUG EFFECTS

Discriminative characteristics of high and low cocaine administration: effect of other psychostimulants. Schechter MD. **Pharmacol Biochem Behav** 1997 Mar;56(3):457-63

GENERALIZATION, STIMULUS

Generalization to novel images in upright and inverted faces. Moses Y, et al. **Perception** 1996;25(4):443-61

Cross-generalization of an EtOH "hangover" cue to endogenously and exogenously induced stimuli. Gauvin DV, et al. **Pharmacol Biochem Behav** 1997 May-Jun; 57(1-2):199-206

Initial characterization of PMMA as a discriminative stimulus. Glennon RA, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):151-8

Cocaine--stimulus generalization to MDA optical isomers: a reevaluation. Young R, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):115-8

PHYSIOLOGY

A comparison of contextual and generalized auditory-cue fear conditioning: evidence for similar memory processes. Rudy JW, et al. **Behav Neurosci** 1996 Dec;110(6):1299-308

Generalization among related complex odorant mixtures and their components: analysis of olfactory perception in the spiny lobster. Derby CD, et al. **Physiol Behav** 1996 Jul; 60(1):87-95

GENERALIZED GLYCOGENOSIS see **GLYCOGEN STORAGE DISEASE TYPE II**

GENERALIZED THYROID HORMONE RESISTANCE see **THYROID HORMONE RESISTANCE SYNDROME**

GENERATION EFFECT see **COHORT EFFECT**

GENERIC EQUIVALENCY see **THERAPEUTIC EQUIVALENCY**

GENES

see related
BASE SEQUENCE
GENOMIC LIBRARY

The search for molecular defects in genetic disease. Galjaard H. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):43-52 (33 ref.)

Sex determining gene on the X chromosome short arm: dosage sensitive sex reversal. Ogata T, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):390-8 (40 ref.)

The long walk toward the PKD1 gene. The European PKD1 Consortium. Roelfsema JH, et al. **Adv Nephrol Necker Hosp** 1996;25:131-45 (46 ref.)

Trans-activation of cellular genes by hepatitis B virus proteins: a possible mechanism of hepatocarcinogenesis. Caselmann WH. **Adv Virus Res** 1996;47:253-302 (323 ref.)

Genes and longevity [editorial] De Benedictis G. **Aging (Milano)** 1996 Dec;8(6):367-9 (16 ref.)

Designer babies: are test tubes and microbes replacing romance? relevant legal issues and DNA. Miller K, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):305-7

Beta-globin gene haplotype in Hb SC disease. Steinberg MH, et al. **Am J Hematol** 1996 Jul;52(3):189-91

Single major locus models for bipolar disorder are implausible [letter; comment] Craddock N, et al. **Am J Med Genet** 1997 Feb 21;74(1):18-20. Comment on: Am J Med Genet 1995 Oct 9;60(5):370-6.

Mutations in mitochondrial transfer ribonucleic acid genes in preeclampsia. Folgerø T, et al. **Am J Obstet Gynecol** 1996 May;174(5):1626-30

Rabbit surfactant protein B gene: structure and functional characterization of the promoter. Margana RK, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L601-12

Cloning of rat and mouse aquaporin-2 gene promoters and identification of a negative cis-regulatory element. Rai T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F264-73

Candidate genes for abdominal aortic aneurysms. Kuivaniemi H, et al. **Ann N Y Acad Sci** 1996 Nov 18;800:186-97 (46 ref.)

Genetic variability of the CYP 2D6 gene is not a risk factor for sporadic Parkinson's disease. Diederich N, et al. **Ann Neurol** 1996 Sep;40(3):463-5

MELAS associated with a mutation in the valine transfer RNA gene of mitochondrial DNA. Taylor RW, et al. **Ann Neurol** 1996 Sep;40(3):459-62

Ecological population genetics: the interface between genes and the environment. Hoffmann AA, et al. **Annu Rev Genet** 1995;29:349-70 (169 ref.)

Mechanosensitive channels of Escherichia coli: the MscL gene, protein, and activities. Sukharev SI, et al. **Annu Rev Physiol** 1997;59:633-57 (94 ref.)

Gene structure of mouse Cyp3a11: evidence for an enhancer element within its 5' flanking sequences. Toide K, et al. **Arch Biochem Biophys** 1997 Feb 1;338(1):43-9

Absence of R42X and R635X mutations in the LAMB3 gene in 12 Japanese patients with junctional epidermolysis bullosa. Shimizu H, et al. **Arch Dermatol Res** 1997 Feb; 289(3):174-6

Hypertensive nephropathy and the gene for angiotensin-converting enzyme. Kario K, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb;17(2):252-6

Polymorphisms of factor V, factor VII, and fibrinogen genes. Relevance to severity of coronary artery disease. Wang XL, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):246-51

Heterozygous hepatic lipase deficiency, due to two missense mutations R186H and L334F, in the HL gene. Knudsen P, et al. **Atherosclerosis** 1997 Feb 10;128(2):165-74

Association between the LPL-D9N mutation in the lipoprotein lipase gene and plasma lipid traits in myocardial infarction survivors from the ECTIM Study. Mailly F, et al. **Atherosclerosis** 1996 Apr 26;122(1):21-8

The MspI polymorphism of the apolipoprotein A-II gene as a modulator of the dyslipidemic state found in visceral obesity. Vohl MC, et al. **Atherosclerosis** 1997 Feb 10; 128(2):183-90

Human DVI category erythrocytes: correlation of the phenotype with a novel hybrid RhD-CE-D gene but not an internally deleted RhD gene [letter] Huang CH. **Blood** 1997 Mar 1;89(5):1834-5

The future of asthma. Hall IP. **BMJ** 1997 Jan 4; 314(7073):45-9 (6 ref.)

Regional localization of ERG, the channel protein responsible for the rapid component of the delayed rectifier, K+ current in the ferret heart. Brahmajothi MV, et al. **Circ Res** 1997 Jul;81(1):128-35

ACE gene polymorphism: ischemic heart disease and longevity in 10,150 individuals. A case-referent and retrospective cohort study based on the Copenhagen City Heart Study. Agerholm-Larsen B, et al. **Circulation** 1997 May 20;95(10):2358-67

The Asp9 Asn mutation in the lipoprotein lipase gene is associated with increased progression of coronary atherosclerosis. REGRESS Study Group, Interuniversity Cardiology Institute, Utrecht, The Netherlands. Regression Growth Evaluation Statin Study. Jukema JW, et al. **Circulation** 1996 Oct 15;94(8):1913-8

In vivo gene transfection of human endothelial cell nitric oxide synthase in cardiomyocytes causes apoptosis-like cell death. Identification using Sendai virus-coated liposomes. Kawaguchi H, et al. **Circulation** 1997 May 20;95(10):2441-7

Hypertension, serum angiotensinogen, and molecular variants of the angiotensinogen gene among Nigerians. Rotimi C, et al. **Circulation** 1997 May 20;95(10):2348-50

Angiotensin-converting enzyme gene polymorphism. What to do about all the confusion [editorial] [see comments] Singer DR, et al. **Circulation** 1996 Aug 1;94(3):236-9 (43 ref.). Comment in: Circulation 1997 Aug 5;96(3):1050-2.

Four novel KVLQT1 and four novel HERG mutations in familial long-QT syndrome. Tanaka T, et al. **Circulation** 1997 Feb 4;95(3):565-7

Molecular biology and molecular genetics of nitric oxide synthase genes. Nadaud S, et al. **Clin Exp Hypertens** 1996 Feb;18(2):113-43 (88 ref.)

Autosomal recessive retinitis pigmentosa in Spain: evaluation of four genes and two loci involved in the disease. Bayés M, et al. **Clin Genet** 1996 Nov;50(5):380-7

Dinucleotide polymorphism in the first intron of the human neuronal nicotinic acetylcholine receptor alpha 4 subunit gene (CHRNA4). Weiland S, et al. **Clin Genet** 1996 Nov; 50(5):433-4

Genes responsible for quantitative regulation of antibody production. Puel A, et al. **Crit Rev Immunol** 1996; 16(3):223-50 (262 ref.)

Genes and lineages in the formation of the enteric nervous system. Gershon MD. **Curr Opin Neurobiol** 1997 Feb; 7(1):101-9 (81 ref.)

Genes involved in cerebellar cell specification and differentiation. Hatten ME, et al. **Curr Opin Neurobiol** 1997 Feb;7(1):40-7 (54 ref.)

Basic helix-loop-helix genes in neural development. Lee JE. **Curr Opin Neurobiol** 1997 Feb;7(1):13-20 (45 ref.)

New gene, nel, encoding a Mr 91 K protein with EGF-like repeats is strongly expressed in neural tissues of early stage chick embryos. Matsuhashi S, et al. **Dev Dyn** 1996 Oct; 207(2):233-4

Prediction of the coding sequences of unidentified human genes. V. The coding sequences of 40 new genes (KIAA0161-KIAA0200) deduced by analysis of cDNA clones from human cell line KG-1 (supplement). Nagase T, et al. **DNA Res** 1996 Feb 29;3(1):43-53

Prediction of the coding sequences of unidentified human genes. V. The coding sequences of 40 new genes (KIAA0161-KIAA0200) deduced by analysis of cDNA clones from human cell line KG-1. Nagase T, et al. **DNA Res** 1996 Feb 29;3(1):17-24

Characterization of the mouse DAX-1 gene reveals evolutionary conservation of a unique amino-terminal motif and widespread expression in mouse tissue. Bae DS, et al. **Endocrinology** 1996 Sep;137(9):3921-7

cis-acting elements and trans-acting proteins in the transcription of chorionic gonadotropin/luteinizing hormone receptor gene in human choriocarcinoma cells and placenta. Hu YL, et al. **Endocrinology** 1996 Sep; 137(9):3897-905

Disruption of estrogen receptor gene prevents 17 beta estradiol-induced angiogenesis in transgenic mice. Johns A, et al. **Endocrinology** 1996 Oct;137(10):4511-3

Rat placental lactogen-I variant (rPL-Iv), product of an unique gene, is biologically different from rPL-I. Robertson MC, et al. **Endocrinology** 1996 Dec; 137(12):5242-9

Structure, characterization, and expression of the gene encoding the mouse Mel1a melatonin receptor [published erratum appears in Endocrinology 1997 Jun;138(6):2307] Roca AL, et al. **Endocrinology** 1996 Aug;137(8):3469-77

Activated protein kinase A is required for differentiation-dependent transcription of the decidual prolactin gene in human endometrial stromal cells. Telgmann R, et al. **Endocrinology** 1997 Mar;138(3):929-37

The rat melanin-concentrating hormone gene encodes an additional putative protein in a different reading frame. Toumaniantz G, et al. **Endocrinology** 1996 Oct; 137(10):4518-21

Understanding gene-environment interactions [news] Albers JW. **Environ Health Perspect** 1997 Jun;105(6):578-80

The deletion polymorphism of the angiotensin-converting enzyme gene is related to phenotypic differences in human arteries. Buikema H, et al. **Eur Heart J** 1996 May; 17(5):787-94

Analysis of vasopressin receptor type II (V2R) gene in three Japanese pedigrees with congenital nephrogenic diabetes insipidus: identification of a family with complete deletion of the V2R gene. Jinnouchi H, et al. **Eur J Endocrinol** 1996 Jun;134(6):689-98

Multiple regulatory elements in the human GnRH receptor gene [comment] Millar R. **Eur J Endocrinol** 1997 Aug; 137(2):118-9. Comment on: Eur J Endocrinol 1997 Aug;137(2):183-92.

New knowledge regarding glucose-6 phosphatase gene and protein and their roles in the regulation of glucose metabolism. Mithieux G. **Eur J Endocrinol** 1997 Feb; 136(2):137-45 (66 ref.)

A gene for hereditary pancreatitis maps to chromosome 7q35 [see comments] Whitcomb DC, et al. **Gastroenterology** 1996 Jun;110(6):1975-80. Comment in: Gastroenterology 1996 Jun;110(6):2015-7.

Helicobacter pylori cagA gene and expression of cytokine messenger RNA in gastric mucosa. Yamaoka Y, et al. **Gastroenterology** 1996 Jun;110(6):1744-52

The master control gene for morphogenesis and evolution of the eye. Gehring WJ. **Genes Cells** 1996 Jan;1(1):11-5 (19 ref.)

Effective sizes and dynamics of uniparentally and diparentally inherited genes. Chesser RK, et al. **Genetics** 1996 Nov;144(3):1225-35

The evolution of mammalian olfactory receptor genes. Issel-Tarver L, et al. **Genetics** 1997 Jan;145(1):185-95

Discord between the phylogenies inferred from molecular versus functional data: uneven rates of functional evolution or low levels of gene flow? Palopoli MF, et al. **Genetics** 1996 Nov;144(3):1321-8

Imperfect genes, Fisherian mutation and the evolution of sex. Peck JR, et al. **Genetics** 1997 Apr;145(4):1171-99

Polymorphism in genes that influence sperm displacement. Prout T, et al. **Genetics** 1996 Sep;144(1):401-8

Assessing dissimilarity of genes by comparing their RNAse A mismatch cleavage patterns. Rzhetsky A, et al. **Genetics** 1996 Dec;144(4):1975-83

Confirmation of quantitative trait loci for ethanol sensitivity in long-sleep and short-sleep mice. Markel PD, et al. **Genome Res** 1997 Feb;7(2):92-9

Human glycogen debranching enzyme gene (AGL): complete structural organization and characterization of the 5' flanking region. Bao Y, et al. **Genomics** 1996 Dec 1;38(2):155-65

Identification of two novel isoforms of the ZNF162 gene: a growing family of signal transduction and activator of RNA proteins. Caslini C, et al. **Genomics** 1997 Jun 1; 42(2):268-77

The gene organization, chromosome location, and expression of a 55-kDa matrix protein (PRELP) of human articular cartilage. Grover J, et al. **Genomics** 1996 Dec 1; 38(2):109-17

Genetic analysis of the epidermal differentiation complex (EDC) on human chromosome 1q21: chromosomal orientation, new markers, and a 6-Mb YAC contig. Marenholz I, et al. **Genomics** 1996 Nov 1;37(3):295-302

The candidate sex-reversing DAX1 gene is autosomal in marsupials: implications for the evolution of sex determination in mammals. Pask A, et al. **Genomics** 1997 May 1;41(3):422-6

A mutation in the human canalicular multispecific organic anion transporter gene causes the Dubin-Johnson syndrome. Paulusma CC, et al. **Hepatology** 1997 Jun; 25(6):1539-42

Review: polygenes revisited. Rasmuson M. **Hereditas** 1996; 125(1):1-9 (19 ref.)

Sex hormone-binding globulin: gene organization and structure/function analyses. Hammond GL, et al. **Horm Res** 1996;45(3-5):197-201 (41 ref.)

Thyroxine-binding globulin: organization of the gene and variants [published erratum appears in Horm Res 1996 Jul;46(1):37] Refetoff S, et al. **Horm Res** 1996; 45(3-5):128-38 (81 ref.)

Towards a unified nomenclature describing voltage-gated calcium channel genes. Lory P, et al. **Hum Genet** 1997 Aug;100(2):149-50

Mutations in the gene encoding the inwardly-rectifying renal potassium channel, ROMK, cause the antenatal variant of Bartter syndrome: evidence for genetic heterogeneity. International Collaborative Study Group for Bartter-like Syndromes [published erratum appears in Hum Mol Genet 1997 Apr;6(4):650] **Hum Mol Genet** 1997 Jan;6(1):17-26

Translation initiation factor eIF-4gamma is encoded by an amplified gene and induces an immune response in squamous cell lung carcinoma. Brass N, et al. **Hum Mol Genet** 1997 Jan;6(1):33-9

Treacher Collins syndrome may result from insertions, deletions or splicing mutations, which introduce a termination codon into the gene. Gladwin AJ, et al. **Hum Mol Genet** 1996 Oct;5(10):1533-8

Positional cloning of the gene for X-linked retinitis pigmentosa 3: homology with the guanine-nucleotide-exchange factor RCC1. Roepman R, et al. **Hum Mol Genet** 1996 Jul;5(7):1035-41

Cloning of a new human gene with short consensus repeats using the EST database. Nangaku M, et al. **Immunogenetics** 1997;46(2):99-103

Evaluation of the gene encoding the tissue inhibitor of metalloproteinases-3 in various maculopathies. Felbor U, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1054-9

Transcriptional regulation of aquaporin-2 water channel gene by cAMP. Matsumura Y, et al. **J Am Soc Nephrol** 1997 Jun;8(6):861-7

G and T nucleotide contents show specie-invariant negative correlation for all three codon positions. Frank GK, et al. **J Biomol Struct Dyn** 1997 Apr;14(5):629-39

Active and inactive genes localize preferentially in the periphery of chromosome territories. Kurz A, et al. **J Cell Biol** 1996 Dec;135(5):1195-205

Cloning and characterization of the promoter regions of the human parathyroid hormone (PTH)/PTH-related peptide receptor gene: analysis of deoxyribonucleic acid from normal subjects and patients with pseudohypoparathyroidism type Ib. Bettoun JD, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1031-40

Congenital hypothyroidism caused by a premature termination signal in exon 10 of the human thyroid peroxidase gene. Bikker H, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2076-9

Analysis of the SRY gene in gonadal tissue of subjects with 46,XY gonadal dysgenesis [letter] Fuqua JS, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):701-2

Extensive mutation scanning of RET in sporadic medullary thyroid carcinoma and of RET and VHL in sporadic pheochromocytoma reveals involvement of these genes in only a minority of cases. Hofstra RM, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2881-4

The interaction of a type A retroviral particle and class II human leukocyte antigen susceptibility genes in the pathogenesis of Graves' disease. Jaspan JB, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2271-9

Mitochondrial gene transfer ribonucleic acid (tRNA)Leu(UUR) 3243 and tRNA(Lys) 8344 mutations and diabetes mellitus in Korea. Lee HC, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):372-4

Aromatase deficiency in a female who is compound heterozygote for two new point mutations in the P450arom gene: impact of estrogens on hypergonadotropic hypogonadism, multicystic ovaries, and bone densitometry in childhood. Mullis PE, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1739-45

The search for the osteoporosis gene [editorial; comment] Nelson DA, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):989-90. Comment on: J Clin Endocrinol Metab 1997 Apr;82(4):991-5.

A new mutation of the gene encoding the transcription factor Pit-1 is responsible for combined pituitary hormone deficiency. Pellegrini-Bouiller I, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2790-6

Recurrent mutations in the vasopressin-neurophysin II gene cause autosomal dominant neurohypophyseal diabetes insipidus. Repaske DR, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2328-34

Transcription of the human genes for cytochrome P450scc and P450c17 is regulated differently in human adrenal NCI-H295 cells than in mouse adrenal Y1 cells. Rodriguez H, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):365-71

Single strand conformation polymorphism (SSCP) analysis for the detection of mutations in the CYP11B1 gene. Skinner CA, et al. **J Clin Endocrinol Metab** 1996 Jun; 81(6):2389-93

Nine novel growth hormone receptor gene mutations in patients with Laron syndrome. Sobrier ML, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):435-7

The structure of the coding and 5'-flanking region of the type 1 iodothyronine deiodinase (dio1) gene is normal in a patient with suspected congenital dio1 deficiency. Toyoda N, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2121-4

Presence of alternatively spliced transcripts of aromatase gene in human breast cancer. Utsumi T, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2344-9

A 5'-splice site mutation in the cytochrome P450 steroid 17alpha-hydroxylase gene in 17alpha-hydroxylase deficiency. Yamaguchi H, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1934-8

Recognition of genes in human DNA sequences. Gelfand MS, et al. **J Comput Biol** 1996 Summer;3(2):223-34

Finding genes in DNA with a Hidden Markov Model. Henderson J, et al. **J Comput Biol** 1997 Summer;4(2):127-41

Las Vegas algorithms for gene recognition: suboptimal and error-tolerant spliced alignment. Sze SH, et al. **J Comput Biol** 1997 Fall;4(3):297-309

The promoter of an androgen dependent gene in the hamster flank organ. Aoki H, et al. **J Dermatol Sci** 1997 May; 15(1):36-43

Taking the V out of genes V environment. Colhoun HM, et al. **J Hum Hypertens** 1997 Jul;11(7):401-4 (30 ref.)

Mapping and sequence analysis of the gene encoding the beta subunit of the epithelial sodium channel in experimental models of hypertension. Huang H, et al. **J Hypertens** 1995 Nov;13(11):1247-51

The gene encoding collagen alpha1(V)(COL5A1) is linked to mixed Ehlers-Danlos syndrome type I/II. Burrows NP, et al. **J Invest Dermatol** 1996 Jun;106(6):1273-6

The gene for multiple familial trichoepithelioma maps to chromosome 9p21. Harada H, et al. **J Invest Dermatol** 1996 Jul;107(1):41-3

Genomic characterization of the human type I cuticular hair keratin hHa2 and identification of an adjacent novel type I hair keratin gene hHa5. Rogers MA, et al. **J Invest Dermatol** 1996 Oct;107(4):633-8

The majority of autologous cytolytic T-lymphocyte clones derived from peripheral blood lymphocytes of a melanoma patient recognize an antigenic peptide derived from gene Pmel17/gp100. Zarour H, et al. **J Invest Dermatol** 1996 Jul;107(1):63-7

Prediction of complete gene structures in human genomic DNA. Burge C, et al. **J Mol Biol** 1997 Apr 25;268(1):78-94

Polyphyletic gene losses can bias backtrack characterizations of the cenancestor. Becerra A, et al. **J Mol Evol** 1997 Aug; 45(2):115-8

Common features of analogous replacement histone H3 genes in animals and plants. Waterborg JH, et al. **J Mol Evol** 1996 Sep;43(3):194-206

A gene by any other name: does whimsy matter? [news] Kuska B. **J Natl Cancer Inst** 1997 Jul 2;89(13):910-1

Elements between the protein-coding regions of the adjacent beta 4 and alpha 3 acetylcholine receptor genes direct neuron-specific expression in the central nervous system. Yang X, et al. **J Neurobiol** 1997 Mar;32(3):311-24

Identification of candidate genes induced by retinoic acid in embryonal carcinoma cells. Cheung WM, et al. **J Neurochem** 1997 May;68(5):1882-8

Retinoic acid is a negative regulator of the neuropeptide Y/peptide YY Y1 receptor gene in SK-N-MC cells. Mannon PJ, et al. **J Neurochem** 1997 Jan;68(1):20-5

Meningioangiomatosis is associated with neurofibromatosis 2 but not with somatic alterations of the NF2 gene. Stemmer-Rachamimov AO, et al. **J Neuropathol Exp Neurol** 1997 May;56(5):485-9 (43 ref.)

The expression and function of Notch pathway genes in the developing rat eye. Bao ZZ, et al. **J Neurosci** 1997 Feb 15;17(4):1425-34

Modification of NMDA receptor channels and synaptic transmission by targeted disruption of the NR2C gene. Ebralidze AK, et al. **J Neurosci** 1996 Aug 15; 16(16):5014-25

Disruption of the metallothionein-III gene in mice: analysis of brain zinc, behavior, and neuron vulnerability to metals, aging, and seizures. Erickson JC, et al. **J Neurosci** 1997 Feb 15;17(4):1271-81

Spatial and temporal expression of the period and timeless genes in the developing nervous system of Drosophila: newly identified pacemaker candidates and novel features of clock gene product cycling. Kaneko M, et al. **J Neurosci** 1997 Sep 1;17(17):6745-60

Multiple protein factors interact with the cis-regulatory elements of the proximal promoter in a cell-specific manner and regulate transcription of the dopamine beta-hydroxylase gene. Seo H, et al. **J Neurosci** 1996 Jul 1;16(13):4102-12

A Drosophila calcium channel alpha1 subunit gene maps to a genetic locus associated with behavioral and visual defects. Smith LA, et al. **J Neurosci** 1996 Dec 15; 16(24):7868-79

Genetic analysis of structural elastic fiber and collagen genes in familial adolescent idiopathic scoliosis. Miller NH, et al. **J Orthop Res** 1996 Nov;14(6):994-9

Construction of recombinant adeno-associated virus vector containing the rat preproinsulin II gene. Peng L, et al. **J Surg Res** 1997 Apr;69(1):193-8

Genomic organization of a human cystine transporter gene (SLC3A1) and identification of novel mutations causing cystinuria. Endsley JK, et al. **Kidney Int** 1997 Jun; 51(6):1893-9

Genetic composition of the recombinant congenic strains. Stassen AP, et al. **Mamm Genome** 1996 Jan;7(1):55-8

Gene identification using the yeast two-hybrid system. Bai C, et al. **Methods Enzymol** 1996;273:331-47 (17 ref.)

Role of 26S proteasome and HRD genes in the degradation

of 3-hydroxy-3-methylglutaryl-CoA reductase, an integral endoplasmic reticulum membrane protein. Hampton RY, et al. **Mol Biol Cell** 1996 Dec;7(12):2029-44

Mitochondrial and nuclear genes present conflicting portraits of human origins. Hey J. **Mol Biol Evol** 1997 Feb; 14(2):166-72

Construction of a human heart cDNA library and identification of cardiovascular based genes (CVBest). Liew CC, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):81-7

From gene to organismal phylogeny: reconciled trees and the gene tree/species tree problem. Page RD, et al. **Mol Phylogenet Evol** 1997 Apr;7(2):231-40

Analysis of polymorphisms of the 2',3'-cyclic nucleotide-3'-phosphodiesterase gene in patients with multiple sclerosis. Thompson RJ, et al. **Mult Scler** 1996 Dec;2(5):215-21

The mdx-amplification-resistant mutation system assay, a simple and rapid polymerase chain reaction-based detection of the mdx allele. Amalfitano A, et al. **Muscle Nerve** 1996 Dec;19(12):1549-53

Structure and function in gene patenting. Eisenberg RS. **Nat Genet** 1997 Feb;15(2):125-30 (65 ref.)

The heritability of happiness [news] Hamer DH. **Nat Genet** 1996 Oct;14(2):125-6

Not everything is in the genes [editorial] **Nature** 1997 Jun 19;387(6635):743

Bioethics group finds no objection to human gene patents [news] Abbott A. **Nature** 1996 Oct 3;383(6599):368

The changing sizes of genes [news; comment] Charlesworth B. **Nature** 1996 Nov 28;384(6607):315-6. Comment on: Nature 1996 Nov 28;384(6607):346-9.

Foxy logic on gene pursuit [letter] Eckhardt RB. **Nature** 1996 Aug 29;382(6594):750

Genes from zebrafish screens [news] [see comments] Holder N, et al. **Nature** 1996 Dec 12;384(6609):515-6. Comment in: Nature 1997 Mar 20;386(6622):234.

US decision 'will not limit gene patents' [news] O'Brien C. **Nature** 1997 Feb 27;385(6619):755

Detection of translation terminating mutations in the PKD1 gene. Roelfsema JH, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 6:5-9

Demyelinating peripheral neuropathy with Creutzfeldt-Jakob disease and mutation at codon 200 of the prion protein gene [see comments] Antoine JC, et al. **Neurology** 1996 Apr;46(4):1123-7. Comment in: Neurology 1997 Mar;48(3):784.

Migraine association and linkage studies of an endothelial nitric oxide synthase (NOS3) gene polymorphism. Griffiths LR, et al. **Neurology** 1997 Aug;49(2):614-7

Atypical parkinsonism in a family of Portuguese ancestry: absence of CAG repeat expansion in the MJD1 gene. Sutton JP, et al. **Neurology** 1997 May;48(5):1285-90

Machado-Joseph disease: cerebellar ataxia and autonomic dysfunction in a patient with the shortest known expanded allele (56 CAG repeat units) of the MJD1 gene. Takiyama Y, et al. **Neurology** 1997 Aug;49(2):604-6

Genetic variation in the tumor necrosis factor alpha gene and the outcome of multiple sclerosis. Weinshenker BG, et al. **Neurology** 1997 Aug;49(2):378-85

aex-3 encodes a novel regulator of presynaptic activity in C. elegans. Iwasaki K, et al. **Neuron** 1997 Apr;18(4):613-22

Targeting epilepsy genes. Noebels JL. **Neuron** 1996 Feb; 16(2):241-4 (21 ref.)

Inner ear defects induced by null mutation of the isk gene. Vetter DE, et al. **Neuron** 1996 Dec;17(6):1251-64

Mutation analysis of the human pancreatic phospholipase A2 gene in a family with distal hereditary motor neuropathy type II linked to 12q24. Beuten J, et al. **Neurosci Lett** 1997 Feb 14;223(1):69-71

Assignment of Alzheimer's presenilin-1 (PS-1) gene to 14q24.3 by fluorescence in situ hybridization. Takano T, et al. **Neurosci Lett** 1996 Aug 16;214(1):69-71

Identification and characterization of a novel gene (neurorep 1) expressed in nerve cells and up-regulated after axotomy. Uwabe K, et al. **Neuroscience** 1997 Sep;80(2):501-9

Polymorphisms of the vitamin D receptor gene do not predict quantitative ultrasound of the calcaneus or hip axis length. Arden NK, et al. **Osteoporos Int** 1996;6(4):334-7

Exclusion of p75NGFR and other candidate genes in a family with hereditary sensory neuropathy type II. Davar G, et al. **Pain** 1996 Sep;67(1):135-9

Genetic control of neural cell apoptosis. Bredesen DE. **Perspect Dev Neurobiol** 1996;3(2):101-9 (90 ref.)

Molecular linguistics: extracting information from gene and protein sequences [comment] Botstein D, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5506-7 (13 ref.). Comment on: Proc Natl Acad Sci U S A 1997 May 27;94(11):5831-6.

Late memory-related genes in the hippocampus revealed by RNA fingerprinting. Cavallaro S, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9669-73

Apoptosis resistance of nonobese diabetic peripheral lymphocytes linked to the Idd5 diabetes susceptibility region. Colucci F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8670-4

Gene recognition via spliced sequence alignment. Gelfand MS, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):9061-6

Origin of genes. Gilbert W, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7698-703

Identification of a novel vertebrate circadian clock-regulated gene encoding the protein nocturnin [see comments] Green CB, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14884-8. Comment in: Proc Natl Acad Sci U S A 1996 Dec 10;93(25):14308-9.

Architectural limits on split genes. Sterner DA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15081-5

Discovery of genes involved with learning and memory: an experimental synthesis of Hirschian and Benzerian perspectives. Tully T. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13460-7 (77 ref.)

Tlag1, a novel murine tumor susceptibility gene that regulates MNU-induced thymic lymphoma development. Richie ER, et al. **Prog Clin Biol Res** 1996;395:23-32 (17 ref.)

Codon 877 mutation in the androgen receptor gene in advanced prostate cancer: relation to antiandrogen withdrawal syndrome. Suzuki H, et al. **Prostate** 1996 Sep; 29(3):153-8

Mass survival of birds across the Cretaceous-Tertiary boundary: molecular evidence [see comments] Cooper A, et al. **Science** 1997 Feb 21;275(5303):1109-13. Comment in: Science 1997 Feb 21;275(5303):1068.

After the genome [letter; comment] Crabbe J. **Science** 1996 Dec 6;274(5293):1594-5. Comment on: Science 1996 Oct 25;274(5287):536-9.

Your complete Web guide to tumors [news] Ehrenstein D. **Science** 1997 Aug 8;277(5327):762

Did birds sail through the K-T extinction with flying colors? [news; comment] Gibbons A. **Science** 1997 Feb 21; 275(5303):1068. Comment on: Science 1997 Feb 21;275(5303):1109-13.

A fin-de siècle achievement: charting new waters in vertebrate biology. Grunwald DJ. **Science** 1996 Dec 6; 274(5293):1634-5

Companies rush to patent DNA [news] Marshall E. **Science** 1997 Feb 7;275(5301):780-1

HIV experts vs. sequencers in patent race [news] Marshall E. **Science** 1997 Feb 28;275(5304):1263

Genetic evolution of morphology [letter] Newman SA. **Science** 1997 Oct 3;278(5335):20-1

Tracing backbone evolution through a tunicate's lost tail [news; comment] Pennisi E. **Science** 1996 Nov 15; 274(5290):1082-3. Comment on: Science 1996 Nov 15;274(5290):1205-8.

Homing in on prostate cancer gene [news; comment] Pennisi E. **Science** 1996 Nov 22;274(5291):1301. Comment on: Science 1996 Nov 22;274(5291):1371-4.

Major susceptibility locus for prostate cancer on chromosome 1 suggested by a genome-wide search [see comments] Smith JR, et al. **Science** 1996 Nov 22;274(5291):1371-4. Comment in: Science 1996 Nov 22;274(5291):1301.

Polymorphisms of the factor VII gene and circulating FVII:C levels in relation to acute cerebrovascular disease and poststroke mortality. Heywood DM, et al. **Stroke** 1997 Apr;28(4):816-21

Angiotensin-converting enzyme gene polymorphism in hypertensive individuals with parental history of stroke. Maeda Y, et al. **Stroke** 1996 Sep;27(9):1521-3

NK cell receptor gene of the KIR family with two IG domains but highest homology to KIR receptors with three IG domains. Selvakumar A, et al. **Tissue Antigens** 1996 Oct;48(4 Pt 1):285-94

Eukaryotic gene nomenclature--a resolvable problem? Lonsdale D, et al. **Trends Biochem Sci** 1996 Nov; 21(11):443-4

Finding genes by computer: the state of the art. Fickett JW. **Trends Genet** 1996 Aug;12(8):316-20

The human gene mutation database. Krawczak M, et al. **Trends Genet** 1997 Mar;13(3):121-2

Genomic sequence presentation. Kuzio J. **Trends Genet** 1996 Aug;12(8):321-2

Exploring the gene with X-rays. Manchester KL. **Trends Genet** 1996 Dec;12(12):515-8 (19 ref.)

Genetic control of response to dietary fat and cholesterol. Clifton PM, et al. **World Rev Nutr Diet** 1997;80:1-14 (83 ref.)

[Experimental study on in vivo hematopoietic regulation of IL-6 gene-transfected tumor vaccine] Ge L, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):93-6 (Eng. Abstr.) **(Chi)**

[Inhibitory effects of malignant phenotype of human bladder cancer cell line by c-Ha-ras, c-myc antisense oligodeoxynucleotide] Li M, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):7-9 (Eng. Abstr.) **(Chi)**

[Recent molecular histochemistry and its application from localization to gene hunting] Kiyama H. **Nippon Rinsho** 1996 Feb;54(2):309-15 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Polymorphism of cytokine genes in autoimmune diseases] Gómez de la Concha E. **An R Acad Nac Med (Madr)** 1996; 113(3):537-42; discussion 543 **(Spa)**

[Genes and human behavior] Salamanca-Gómez F. **Gac Med Mex** 1996 Nov-Dec;132(6):643-4 **(Spa)**

[Androgen receptor gene structure and protein function. Gene structural defects that promote androgen resistance in men] Pino AM. **Rev Med Chil** 1996 Sep;124(9):1127-36 (32 ref.) (Eng. Abstr.) **(Spa)**

[Genes, heredity and illness. A critical review of the concepts of genotypes and phenotypes] López de Munain A, et al. **Rev Neurol** 1996 Mar;24(127):320-4 (11 ref.) **(Spa)**

DRUG EFFECTS

Work environment influence on cytostatics-induced genotoxicity in oncologic nurses. Brumen V, et al. **Am J Ind Med** 1996 Jul;30(1):67-71

Identification of a bile acid response element in the cholesterol 7 alpha-hydroxylase gene CYP7A. Stroup D, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G508-17

Genotoxicity studies on ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):511-4

A complex retinoic acid response element in the uncoupling protein gene defines a novel role for retinoids in thermogenesis. Rabelo R, et al. **Endocrinology** 1996 Aug; 137(8):3488-96

Influence of interleukin-6 on neural activity and transcription of the gene encoding corticotrophin-releasing factor in the rat brain: an effect depending upon the route of administration. Vallières L, et al. **Eur J Neurosci** 1997 Jul; 9(7):1461-72

Novel progesterone target genes identified by an improved differential display technique suggest that progestin-induced growth inhibition of breast cancer cells coincides with enhancement of differentiation. Kester HA, et al. **J Biol Chem** 1997 Jun 27;272(26):16637-43

AP1-mediated transcriptional enhancement of the rat tyrosine hydroxylase gene by muscarinic stimulation. Chae HD, et al. **J Neurochem** 1996 Mar;66(3):1264-72

Thyroid hormone-responsive genes in developing cerebellum include a novel synaptotagmin and a hairless homolog. Thompson CC. **J Neurosci** 1996 Dec 15;16(24):7832-40

Age-related decreases in mRNA for brain nuclear receptors and target genes are reversed by retinoic acid treatment. Enderlin V, et al. **Neurosci Lett** 1997 Jun 27;229(2):125-9

[Cytogenetic indicators of genotoxicity in subjects occupationally exposed to antineoplastic drugs] Forni A, et al. **Med Lav** 1996 May-Jun;87(3):222-9 (34 ref.) (Eng. Abstr.) **(Ita)**

[The genotoxic effects of cadmium studied in vivo] Privezentsev KV, et al. **Tsitol Genet** 1996 May-Jun; 30(3):45-51 (Eng. Abstr.) **(Rus)**

GENETICS

Structure of the human retinoic acid receptor beta 1 gene. Toulouse A, et al. **Biochim Biophys Acta** 1996 Nov 11; 1309(1-2):1-4

Genes of human ATP synthase: their roles in physiology and aging. Kagawa Y, et al. **Biosci Rep** 1997 Apr; 17(2):115-46 (137 ref.)

Tumour necrosis factor alpha gene polymorphisms in rheumatoid arthritis: association with susceptibility to, or severity of, disease? Brinkman BM, et al. **Br J Rheumatol** 1997 May;36(5):516-21

Pax proteins and eye development. Macdonald R, et al. **Curr Opin Neurobiol** 1996 Feb;6(1):49-56 (56 ref.)

Prediction of the coding sequences of unidentified human genes. VI. The coding sequences of 80 new genes (KIAA0201-KIAA0280) deduced by analysis of cDNA clones from cell line KG-1 and brain. Nagase T, et al. **DNA Res** 1996 Oct 31;3(5):321-9, 341-54

The gene for histone RNA hairpin binding protein is located on human chromosome 4 and encodes a novel type of RNA binding protein. Martin F, et al. **EMBO J** 1997 Feb 17; 16(4):769-78

Lack of linkage between idiopathic generalized epilepsies and the gene encoding the neural cell adhesion molecule. Sander T, et al. **Epilepsy Res** 1996 Oct;25(2):139-45

Structure and organization of the gene encoding human selenoprotein. Yasui Y, et al. **Gene** 1996 Oct 10; 175(1-2):269-70

Structure and organization of the human survival motor neurone (SMN) gene. Bürglen L, et al. **Genomics** 1996 Mar 15;32(3):479-82

Genomic organization and promoter structure of the human EXT1 gene. Lüdecke HJ, et al. **Genomics** 1997 Mar 1; 40(2):351-4

Assignment of the human GLI2 gene to 2q14 by fluorescence in situ hybridization. Matsumoto N, et al. **Genomics** 1996 Aug 15;36(1):220-1

Genomic structure and complete nucleotide sequence of the Batten disease gene, CLN3. Mitchison HM, et al. **Genomics** 1997 Mar 1;40(2):346-50

RsaI polymorphism at the cytochrome P4502E1 locus and risk of hepatocellular carcinoma. Ladero JM, et al. **Gut** 1996 Aug;39(2):330-3

Genes preserved in relatives. Guo SW, et al. **Hum Hered** 1997 May-Jun;47(3):138-54

Extensive gene flow in human populations as revealed by protein and microsatellite DNA markers. Santos EJ, et al. **Hum Hered** 1997 May-Jun;47(3):165-72

Cloning and characterization of DXS6673E, a candidate gene for X-linked mental retardation in Xq13.1. van der Maarel SM, et al. **Hum Mol Genet** 1996 Jul;5(7):887-97

Technical note: use of a PCR-single strand conformation polymorphism (PCR-SSCP) for detection of a point mutation in the swine ryanodine receptor (RYR1) gene. Nakajima E, et al. **J Anim Sci** 1996 Dec;74(12):2904-6

Caenorhabditis elegans levamisole resistance genes lev-1, unc-29, and unc-38 encode functional nicotinic acetylcholine receptor subunits. Fleming JT, et al. **J Neurosci** 1997 Aug 1;17(15):5843-57

ENC-1: a novel mammalian kelch-related gene specifically expressed in the nervous system encodes an actin-binding protein. Hernandez MC, et al. **J Neurosci** 1997 May 1; 17(9):3038-51

Ordering and interpreting DNA tests. Karnes PS. **Mayo Clin Proc** 1996 Dec;71(12):1192-5 (10 ref.)

Structural and functional characterization of the human alpha3 nicotinic subunit gene promoter. Fornasari D, et al. **Mol Pharmacol** 1997 Feb;51(2):250–61

Catch me if you can: are catechol- and indoleamine genes pleiotropic QTLs for common mental disorders? [news] Collier DA, et al. **Mol Psychiatry** 1997 May;2(3):181–3

Mitochondrial encephalomyopathies: gene mutation. **Neuromuscul Disord** 1997 Mar;7(2):XIII–XVIII

A novel SOD1 mutation in an Austrian family with amyotrophic lateral sclerosis. Bereznai B, et al. **Neuromuscul Disord** 1997 Mar;7(2):113–6

Behavioral defects in C. elegans egl-36 mutants result from potassium channels shifted in voltage-dependence of activation. Johnstone DB, et al. **Neuron** 1997 Jul; 19(1):151–64

A mutation spectra database for bacterial and mammalian genes. Hutchinson F, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):192–5

Cloning and characterization of AFX, the gene that fuses to MLL in acute leukemias with a t(X;11)(q13;q23). Borkhardt A, et al. **Oncogene** 1997 Jan 16;14(2):195–202

Histopathological and immunohistochemical findings associated with a null mutation in the Norrie disease gene. Schroeder B, et al. **Ophthalmic Genet** 1997 Jun;18(2):71–7

DNA polymorphisms of lipogenesis genes and analysis of linkage with fatness in turkeys. Sourdioux M, et al. **Poult Sci** 1996 Aug;75(8):1018–26

The biological clock: it's all in the genes. Takahashi JS. **Prog Brain Res** 1996;111:5–9

Leukaemogenesis, gene interplay, and the role of the haemopoietic environment. Lawler M. **Radiat Oncol Investig** 1997;5(3):154–7 (18 ref.)

Flies with many eyes: first master gene found. Kolchinsky A. **Surg Neurol** 1996 Jan;45(1):68–70

PHYSIOLOGY

Association analyses of S(A) gene variant in essential hypertensives. Zee RY, et al. **Am J Hypertens** 1997 Mar; 10(3):235–42

Genes of human ATP synthase: their roles in physiology and aging. Kagawa Y, et al. **Biosci Rep** 1997 Apr; 17(2):115–46 (137 ref.)

A single locus, RGHT, specifies preference for hand utilization in humans. Klar AJ. **Cold Spring Harb Symp Quant Biol** 1996;61:59–65 (28 ref.)

LTP, NMDA, genes and learning. Cain DP. **Curr Opin Neurobiol** 1997 Apr;7(2):235–42 (75 ref.)

Gestational diabetes mellitus and gene mutations which affect insulin secretion. Allan CJ, et al. **Diabetes Res Clin Pract** 1997 Jun;36(3):135–41

Interactions among receptors, thyroid hormone response elements, and ligands in the regulation of the rat uncoupling protein gene expression by thyroid hormone. Rabelo R, et al. **Endocrinology** 1996 Aug;137(8):3478–87

Benefits of "harmful" genes. Wilcox AJ. **Epidemiology** 1996 Jul;7(4):450–1 (7 ref.)

Cross-talk to the genes for Bacillus anthracis capsule synthesis by atxA, the gene encoding the trans-activator of anthrax toxin synthesis. Uchida I, et al. **Mol Microbiol** 1997 Mar;23(6):1229–40

The coevolution of gene family trees. Fryxell KJ. **Trends Genet** 1996 Sep;12(9):364–9 (56 ref.)

RADIATION EFFECTS

Ultraviolet-induced mutation and the chemical nature of the gene. Stadler D. **Genetics** 1997 Apr;145(4):863–5

Delayed effects and induction of genetic instability by radiation. Niwa O. **J Toxicol Sci** 1996 Feb;21(1):61–3

[The mutagenic action of gamma radiation on Chinese hamster cells. The cytogenetic characteristics of the mutants at the HPRT locus] Govorun RD, et al. **Radiats Biol Radioecol** 1996 Nov-Dec;36(6):852–9 (Eng. Abstr.) **(Rus)**

GENES, ABL

see related
FUSION PROTEINS, BCR-ABL
ONCOGENE PROTEINS V-ABL
PROTO-ONCOGENE PROTEINS C-ABL

BCR-ABL rearrangement in adult T-cell acute lymphoblastic leukemia [letter] Colleoni GW, et al. **Am J Hematol** 1996 Dec;53(4):277–8

Paracentric inversion involving the long arm of chromosome 9 resulting in deletion of abl gene. Kleyman SM, et al. **Am J Med Genet** 1997 Feb 11;68(4):409–11

Distribution of ABL and BCR genes in cell nuclei of normal and irradiated lymphocytes. Kozubek S, et al. **Blood** 1997 Jun 15;89(12):4537–45

BCR-ABL transcript with an e19a2 (c3a2) junction in classical chronic myeloid leukemia [letter; comment] Wilson G, et al. **Blood** 1997 Apr 15;89(8):3064. Comment on: Blood 1996 Oct 1;88(7):2410–4.

Very low level of major BCR-ABL expression in blood of some healthy individuals. Biernaux C, et al. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S45–7

The ABL genes in normal and abnormal cell development. Chung SW, et al. **Crit Rev Oncog** 1996;7(1-2):33–48 (184 ref.)

The function of BCR/ABL and related proto-oncogenes. Gotoh A, et al. **Curr Opin Hematol** 1997 Jan;4(1):3–11 (98 ref.)

Activation of hematopoietic growth factor signal transduction pathways by the human oncogene BCR/ABL. Sattler M, et al. **Cytokine Growth Factor Rev** 1997 Mar; 8(1):63–79 (165 ref.)

The ABL-MYC retrovirus generates antigen-specific plasmacytomas by in vitro infection of activated B lymphocytes from spleen and other murine lymphoid organs. Largaespada DA, et al. **J Immunol Methods** 1996 Oct 16;197(1-2):85–95

Deregulation of cell survival in lymphomagenesis. Harris AW, et al. **Leukemia** 1997 Apr;11 Suppl 3:383–4

The BCR/ABL oncogene alters interaction of the adapter proteins CRKL and CRK with cellular proteins. Uemura N, et al. **Leukemia** 1997 Mar;11(3):376–85

Increased sensitivity to apoptotic stimuli in c-abl-deficient progenitor B-cell lines. Dorsch M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13131–6

GENETICS

Frequent jumping translocations of chromosomal segments involving the ABL oncogene alone or in combination with CD3-MLL genes in secondary leukemias. Tanaka K, et al. **Blood** 1997 Jan 15;89(2):596–600

A novel acute lymphoid leukaemia type BCR/ABL transcript in chronic myelogenous leukaemia. Okamoto K, et al. **Br J Haematol** 1997 Mar;96(3):611–3

Variant Philadelphia translocation t(9;17)(q34.2-3;q21.3) with colocalization of the BCR and ABL genes on chromosome 9 in chronic myeloid leukemia [letter] Zhang Y, et al. **Cancer Genet Cytogenet** 1997 Jul 1;96(1):87–9

Detection of the Mbcr/abl translocation in chronic myeloid leukemia by fluorescence in situ hybridization: comparison with conventional cytogenetics and implications for minimal residual disease detection. Garcia-Isidoro M, et al. **Hum Pathol** 1997 Feb;28(2):154–9

Regulation of Bcl-2 gene expression by BCR-ABL is mediated by Ras. Sánchez-García I, et al. **J Mol Biol** 1997 Mar 28;267(2):225–8

Quantification of Bcr-Abl transcripts in chronic myelogenous leukemia (CML) using standardized, internally controlled, competitive differential PCR (CD-PCR). Nagel S, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):4102–3

Activation of quiescent ABL-transduced hemopoietic stem cells. Chung SW, et al. **Oncogene** 1996 Dec 5; 13(11):2397–405

GENES, APC

Increased beta-catenin protein and somatic APC mutations in sporadic aggressive fibromatoses (desmoid tumors). Alman BA, et al. **Am J Pathol** 1997 Aug;151(2):329–34

Phenotypic expression of disease in families that have mutations in the 5' region of the adenomatous polyposis coli gene. Giardiello FM, et al. **Ann Intern Med** 1997 Apr 1;126(7):514–9

The adenomatous polyposis coli (APC) tumor suppressor. Polakis P. **Biochim Biophys Acta** 1997 Jun 7; 1332(3):F127–47 (149 ref.)

Studies of neoplasia in the Min mouse. Shoemaker AR, et al. **Biochim Biophys Acta** 1997 Apr 18;1332(2):F25–48 (202 ref.)

Inherited predisposition to colorectal neoplasia. Stephenson BM, et al. **Br J Hosp Med** 1994 Jan 19–Feb 1;51(1-2):15–20, 22–3 (38 ref.)

Mice carrying a truncated Apc gene have diminished gastric epithelial proliferation, gastric inflammation, and humoral immunity in response to Helicobacter felis infection. Fox JG, et al. **Cancer Res** 1997 Sep 15;57(18):3972–8

Alternative splicing of the APC gene and its association with terminal differentiation. Santoro IM, et al. **Cancer Res** 1997 Feb 1;57(3):488–94

Agreement of mutational characteristics of heterocyclic amines in lacI of the Big Blue mouse with those in tumor related genes in rodents. Okonogi H, et al. **Carcinogenesis** 1997 Apr;18(4):745–8

Loss of Apc and the entire chromosome 18 but absence of mutations at the Ras and Tp53 genes in intestinal tumors from Apc1638N, a mouse model for Apc-driven carcinogenesis. Smits R, et al. **Carcinogenesis** 1997 Feb; 18(2):321–7

2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine increases the numbers of tumors, cystic crypts and aberrant crypt foci in multiple intestinal neoplasia mice. Steffensen IL, et al. **Carcinogenesis** 1997 May;18(5):1049–54

Lessons from hereditary colorectal cancer. Kinzler KW, et al. **Cell** 1996 Oct 18;87(2):159–70 (97 ref.)

Action of Min and Mom1 on neoplasia in ectopic intestinal grafts. Gould KA, et al. **Cell Growth Differ** 1996 Oct; 7(10):1361–8

APC intragenic haplotypes in familial adenomatous polyposis. Almeida R, et al. **Clin Genet** 1996 Dec; 50(6):483–5

Molecular genetic analysis of exons 1 to 6 of the APC gene in non-polyposis familial colorectal cancer. Joyce JA, et al. **Clin Genet** 1995 Dec;48(6):299–303

Exceptions to the rule: individuals with FAP specific CHRPE and mutations in exon 6 of the APC gene [letter] Pack K, et al. **Clin Genet** 1996 Aug;50(2):110–1

Genotype-phenotype correlations at the adenomatous polyposis coli (APC) gene. Fodde R, et al. **Crit Rev Oncog** 1995;6(3-6):291–303 (87 ref.)

Childhood hepatocellular adenoma in familial adenomatous polyposis: mutations in adenomatous polyposis coli gene and p53. Bala S, et al. **Gastroenterology** 1997 Mar; 112(3):919–22

Elevated cyclooxygenase-2 levels in Min mouse adenomas. Williams CS, et al. **Gastroenterology** 1996 Oct; 111(4):1134–40

Germline APC mutation (Gln1317) in a cancer-prone family that does not result in familial adenomatous polyposis. White S, et al. **Genes Chromosomes Cancer** 1996 Feb; 15(2):122–8

Mom1 is a semi-dominant modifier of intestinal adenoma size and multiplicity in Min/+ mice. Gould KA, et al. **Genetics** 1996 Dec;144(4):1769–76

Genetic evaluation of candidate genes for the Mom1 modifier of intestinal neoplasia in mice. Gould KA, et al. **Genetics** 1996 Dec;144(4):1777–85

Long-range physical map and deletion characterization of the 1100-kb NotI restriction fragment harboring the APC gene. Thliveris A, et al. **Genomics** 1996 Jun 1;34(2):268–70

Hepatoblastoma and APC gene mutation in familial adenomatous polyposis. Giardiello FM, et al. **Gut** 1996 Dec; 39(96):867–9

Familial infiltrative fibromatosis (desmoid tumours) (MIM135290) caused by a recurrent 3' APC gene mutation. Scott RJ, et al. **Hum Mol Genet** 1996 Dec;5(12):1921–4

Three novel APC gene mutations in Portuguese FAP kindreds. Marshall B, et al. **Hum Mutat** 1996;8(4):395–6

Molecular analysis of the APC gene in 105 Dutch kindreds with familial adenomatous polyposis: 67 germline mutations identified by DGGE, PTT, and southern analysis. van der Luijt RB, et al. **Hum Mutat** 1997;9(1):7–16

Four novel germline mutations of the APC gene. Wells D, et al. **Hum Mutat** 1996;8(2):193–5

APC gene mutations and allelic losses in sporadic ampullary tumours: evidence of genetic difference from tumours associated with familial adenomatous polyposis. Achille A, et al. **Int J Cancer** 1996 Nov 4;68(3):305–12

Adrenocorticotropin-independent macronodular adrenocortical hyperplasia associated with multiple colon adenomas/carcinomas which showed a point mutation in the APC gene [see comments] Yamakita N, et al. **Intern Med** 1997 Aug;36(8):536–42. Comment in: Intern Med 1997 Aug;36(8):533–4.

Phosphorylation of the tumor suppressor adenomatous polyposis coli (APC) by the cyclin-dependent kinase p34. Trzepacz C, et al. **J Biol Chem** 1997 Aug 29; 272(35):21681–4

NH2-terminal deletion of beta-catenin results in stable colocalization of mutant beta-catenin with adenomatous polyposis coli protein and altered MDCK cell adhesion. Barth AI, et al. **J Cell Biol** 1997 Feb 10;136(3):693–706

Molecular screening of families affected by familial adenomatous polyposis (FAP). Gazzoli I, et al. **J Med Screen** 1996;3(4):195–9

Loss of heterozygosity at 5q21 in non-small cell lung cancer: a frequent event but without evidence of apc mutation. Cooper CA, et al. **J Pathol** 1996 Sep;180(1):33–7

The interactions of APC, E-cadherin and beta-catenin in tumour development and progression. Ilyas M, et al. **J Pathol** 1997 Jun;182(2):128–37 (83 ref.)

APC expression in normal human tissues. Midgley CA, et al. **J Pathol** 1997 Apr;181(4):426–33

Genetic testing in hereditary colorectal cancer [clinical conference] Giardiello FM. **JAMA** 1997 Oct 15; 278(15):1278–81

The use and interpretation of commercial APC gene testing for familial adenomatous polyposis [see comments] Giardiello FM, et al. **N Engl J Med** 1997 Mar 20; 336(12):823–7. Comment in: N Engl J Med 1997 Mar 20;336(12):869–70. Comment in: N Engl J Med 1997 Jul 24;337(4):282.

Familial colorectal cancer in Ashkenazim due to a hypermutable tract in APC. Laken SJ, et al. **Nat Genet** 1997 Sep;17(1):79–83

APC, K-ras codon 12 mutations and p53 gene expression in carcinoma and adenoma of the gall-bladder suggest two genetic pathways in gall-bladder carcinogenesis. Itoi T, et al. **Pathol Int** 1996 May;46(5):333–40

LOH at the APC/MCC gene (5Q21) in gastric cancer and preneoplastic lesions. Prognostic implications. Sanz-Ortega J, et al. **Pathol Res Pract** 1996 Dec;192(12):1206–10

Localized gene action controlling intestinal neoplasia in mice. Gould KA, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5848–53

A Drosophila homolog of the tumor suppressor gene adenomatous polyposis coli down-regulates beta-catenin but its zygotic expression is not essential for the regulation of Armadillo. Hayashi S, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):242–7

Detection of heterozygous truncating mutations in the BRCA1 and APC genes by using a rapid screening assay in yeast. Ishioka C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2449–53

Apoptosis and APC in colorectal tumorigenesis. Morin PJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7950–4

Intestinal tumorigenesis is suppressed in mice lacking the metalloproteinase matrilysin. Wilson CL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1402–7

New kind of cancer mutation found [news] Gura T. **Science** 1997 Aug 29;277(5330):1201–2

Constitutive transcriptional activation by a beta-catenin-Tcf

complex in APC-/- colon carcinoma [see comments] Korinek V, et al. **Science** 1997 Mar 21;275(5307):1784–7. Comment in: Science 1997 Mar 21;275(5307):1752–3.

Activation of beta-catenin-Tcf signaling in colon cancer by mutations in beta-catenin or APC [see comments] Morin PJ, et al. **Science** 1997 Mar 21;275(5307):1787–90. Comment in: Science 1997 Mar 21;275(5307):1752–3.

Stabilization of beta-catenin by genetic defects in melanoma cell lines [see comments] Rubinfeld B, et al. **Science** 1997 Mar 21;275(5307):1790–2. Comment in: Science 1997 Mar 21;275(5307):1752–3.

Rapid colorectal adenoma formation initiated by conditional targeting of the Apc gene. Shibata H, et al. **Science** 1997 Oct 3;278(5335):120–3

Detection of loss of heterozygosity in the APC tumor suppressor gene in nonpapillary renal cell carcinoma by microdissection and polymerase chain reaction. Böhm M, et al. **Urol Res** 1997;25(3):161–5

[Genetic test as a guide for surgical management in familial adenomatous polyposis] Kronborg O. **Ugeskr Laeger** 1996 Dec 9;158(50):7248 **(Dan)**

[The APC gene] Akiyama T. **Nippon Rinsho** 1996 Apr; 54(4):955–9 (14 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

APC gene alterations in Barrett's metaplasia are implicated at an early stage in the carcinogenesis of esophageal adenocarcinoma. Fein M. **Am J Gastroenterol** 1997 Feb; 92(2):359–60

Hereditary desmoid disease due to a frameshift mutation at codon 1924 of the APC gene [see comments] Eccles DM, et al. **Am J Hum Genet** 1996 Dec;59(6):1193–201. Comment in: Am J Hum Genet 1996 Dec;59(6):1184–5.

Desmoid tumors: genotype-phenotype differences in familial adenomatous polyposis--a nosological dilemma [editorial; comment] Lynch HT. **Am J Hum Genet** 1996 Dec; 59(6):1184–5. Comment on: Am J Hum Genet 1996 Dec;59(6):1193–201.

APC mutation and the crypt cycle in murine and human intestine. Bjerknes M, et al. **Am J Pathol** 1997 Mar; 150(3):833–9

Retinal pigment epithelium abnormalities in mice with adenomatous polyposis coli gene disruption. Marcus DM, et al. **Arch Ophthalmol** 1997 May;115(5):645–50

Extracolonic features of familial adenomatous polyposis in patients with sporadic colorectal cancer. Dunlop MG, et al. **Br J Cancer** 1996 Dec;74(11):1789–95

Infrequent alterations of the APC and MCC genes in gastric cancers from British patients. Sud R, et al. **Br J Cancer** 1996 Oct;74(7):1104–8

Congenital hypertrophy of the retinal pigment epithelium in familial adenomatous polyposis. Novel criteria of assessment and correlations with constitutional adenomatous polyposis coli gene mutations. Valanzano R, et al. **Cancer** 1996 Dec 1;78(11):2400–10

DNA alterations in sporadic colorectal tumors do not correlate with tumor staging diagnosed by the TNM system. Deuter R, et al. **Cancer Lett** 1996 Dec 3; 109(1-2):161–9

Self-promotion? Intimate connections between APC and prostaglandin H synthase-2. Prescott SM, et al. **Cell** 1996 Nov 29;87(5):783–6 (15 ref.)

Loss of the adenomatous polyposis coli gene and human papillomavirus infection in oral carcinogenesis. Mao EJ, et al. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):260–3

Genetic and nutritional modulation of colon cancer development. Lipkin M. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:37–9

Association of extracolonic manifestations of familial adenomatous polyposis with acetylation phenotype in a large FAP kindred. Scott RJ, et al. **Eur J Hum Genet** 1997 Jan-Feb;5(1):43–9

The clinical correlates of a 3' truncating mutation (codons 1982–1983) in the adenomatous polyposis coli gene. Gardner RJ, et al. **Gastroenterology** 1997 Jul;113(1):326–31

APC gene mutations and extraintestinal phenotype of familial adenomatous polyposis. Giardiello FM, et al. **Gut** 1997 Apr; 40(4):521–5

Characterization of 19 novel and six recurring APC mutations in Italian adenomatous polyposis patients, using two different mutation detection techniques. Gismondi V, et al. **Hum Mutat** 1997;9(4):370–3

Germline versus somatic mutations of the APC gene: evidence for mechanistic differences [letter] Marshall B, et al. **Hum Mutat** 1997;9(3):286–8

Three novel germline mutations in the adenomatous polyposis coli gene. Scarano MI, et al. **Hum Mutat** 1997; 9(2):191–3

Mutations of the Ki-ras, p53 and APC genes in adenocarcinomas of the human small intestine. Arai M, et al. **Int J Cancer** 1997 Feb 7;70(4):390–5

Hypermethylation of the APC (adenomatous polyposis coli) gene promoter region in human colorectal carcinoma. Hiltunen MO, et al. **Int J Cancer** 1997 Mar 17;70(6):644–8

Molecular analysis of the adenomatous polyposis coli gene in sarcomas, hematological malignancies and noncolonic, neoplastic tissues. Wada M, et al. **J Mol Med** 1997 Feb; 75(2):139–44

Loss of heterozygosity of APC and MCC genes in oral squamous cell carcinomas in Taiwan. Huang JS, et al. **J Oral Pathol Med** 1997 Aug;26(7):322–6

An EcoRI RFLP in human APC gene. Kurahashi H, et al. **Jpn J Hum Genet** 1995 Dec;40(4):339–41

Lipid metabolism and APC: implications for colorectal cancer prevention. Watson AJ, et al. **Lancet** 1997 Feb 15; 349(9050):444–5

Mutation detection in exons 1–14 of the adenomatous polyposis coli gene: identification of an alternatively spliced transcript. Hamzehloei T, et al. **Mol Cell Probes** 1996 Oct; 10(5):379–85

p53 and APC gene mutations: software and databases. Béroud C, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):138

Pigmented ocular fundus lesions and APC mutations in familial adenomatous polyposis. Traboulsi EI, et al. **Ophthalmic Genet** 1996 Dec;17(4):167–74

Introduction of human adenomatous polyposis coli gene into Min mice via cationic liposomes. Arenas RB, et al. **Surgery** 1996 Oct;120(4):712–7; discussion 717–8

[Relation between loss of heterozygosity at APC and MCC genetic loci and biological behaviour of gastric carcinoma] Liu B, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan; 18(1):3–5 (Eng. Abstr.) **(Chi)**

[Genetic and environmental factors in colorectal cancer. Mutations in the familial adenomatous polyposis gene] Steffensen IL, et al. **Tidsskr Nor Laegeforen** 1997 May 30; 117(14):2046–51 (25 ref.) (Eng. Abstr.) **(Nor)**

IMMUNOLOGY

RP1, a new member of the adenomatous polyposis coli-binding EB1-like gene family, is differentially expressed in activated T cells. Renner C, et al. **J Immunol** 1997 Aug 1;159(3):1276–83

PHYSIOLOGY

Suppression of intestinal polyposis in Apc delta716 knockout mice by inhibition of cyclooxygenase 2 (COX-2). Oshima M, et al. **Cell** 1996 Nov 29;87(5):803–9

Cleaning up on beta-catenin [news] Nakamura Y. **Nat Med** 1997 May;3(5):499–500

GENES, ARAC

Negative regulation of L-arabinose metabolism in Bacillus subtilis: characterization of the araR (araC) gene. Sá-Nogueira I, et al. **J Bacteriol** 1997 Mar;179(5):1598–608

GENES, BACTERIAL

Nodulation genes in the Rhizobium--plant signal exchange. Lorkiewicz Z. **Acta Biochim Pol** 1997;44(1):1–12 (94 ref.)

Characterization of the Escherichia coli gene encoding a new member of the short-chain dehydrogenase/reductase (SDR) family. Sirko A, et al. **Acta Biochim Pol** 1997; 44(1):153–7

Glycopeptide resistance in enterococci: first isolation of a strain harbouring the vanB gene in Belgium [letter] Pierard D, et al. **Acta Clin Belg** 1996;51(5):369–70

Identification of genes specifically expressed by Mycobacterium haemophilum in association with human epithelial cells. Fischer LJ, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:277–9

Genetic and tissue culture systems for the study of bacterial pathogenesis. Quinn FD, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:19–25 (27 ref.)

Spontaneous mutators in bacteria: insights into pathways of mutagenesis and repair. Miller JH. **Annu Rev Microbiol** 1996;50:625–43

Comparative characterization of the cephamycinase blaCMY-1 gene and its relationship with other beta-lactamase genes. Bauernfeind A, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1926–30

Sequences of beta-lactamase genes encoding CTX-M-1 (MEN-1) and CTX-M-2 and relationship of their amino acid sequences with those of other beta-lactamases. Bauernfeind A, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):509–13

Conservation of the multidrug resistance efflux gene oprM in Pseudomonas aeruginosa. Bianco N, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):853–6

Pseudomonas aeruginosa isolates from patients with cystic fibrosis have different beta-lactamase expression phenotypes but are homogeneous in the ampC-ampR genetic region. Campbell JI, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1380–4

Metabolism of a 5-nitroimidazole in susceptible and resistant isogenic strains of Bacteroides fragilis. Carlier JP, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1495–9

The erythromycin resistance gene from the Bacteroides conjugal transposon Tcr Emr 7853 is nearly identical to ermG from Bacillus sphaericus. Cooper AJ, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):506–8

Chromosomal beta-lactamase genes of Klebsiella oxytoca are divided into two main groups, blaOXY-1 and blaOXY-2. Fournier B, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):454–9

Ciprofloxacin-resistant Haemophilus influenzae strains possess mutations in analogous positions of GyrA and ParC. Georgiou M, et al. **Antimicrob Agents Chemother** 1996 Jul; 40(7):1741–4

Molecular analysis of katG gene mutations in strains of Mycobacterium tuberculosis complex from Africa. Haas WH, et al. **Antimicrob Agents Chemother** 1997 Jul; 41(7):1601–3

Cloning and nucleotide sequence of the DNA gyrase gyrA gene from the fish pathogen Aeromonas salmonicida. Oppegaard H, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1126–33

An extracellular factor regulating expression of the chromosomal aminoglycoside 2'-N-acetyltransferase of Providencia stuartii. Rather PN, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1749–54

NorA plasmid resistance to fluoroquinolones: role of copy number and norA frameshift mutations. Sun L, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1665–9

Isolation of a gene encoding a novel spectinomycin phosphotransferase from Legionella pneumophila. Suter TM, et al. **Antimicrob Agents Chemother** 1997 Jun; 41(6):1385–8

katG mutations in isoniazid-resistant strains of Mycobacterium tuberculosis are not infrequent [letter] Victor TC, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1572

Genetics of subtilin and nisin biosyntheses: biosynthesis of lantibiotics. Entian KD, et al. **Antonie Van Leeuwenhoek** 1996 Feb;69(2):109–17 (74 ref.)

Enzyme diversity and mosaic gene organization in denitrification. Zumft WG, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1-2):43–58 (139 ref.)

Expression of colonization factor antigen I fimbriae by enterotoxigenic Escherichia coli; influence of growth conditions and a recombinant positive regulatory gene. Halvorsen T, et al. **APMIS** 1997 Mar;105(3):247–54

Cloning of novel enterotoxin genes from Bacillus cereus and Bacillus thuringiensis. Asano SI, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1054–7

Two amino acid amidohydrolase genes encoding L-stereospecific carbamoylase and aminoacylase are organized in a common operon in Bacillus stearothermophilus. Batisse N, et al. **Appl Environ Microbiol** 1997 Feb;63(2):763–6

Sequencing and functional analysis of styrene catabolism genes from Pseudomonas fluorescens ST. Beltrametti F, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2232–9

A nucleic acid sequence-based amplification system for detection of Listeria monocytogenes hlyA sequences. Blais BW, et al. **Appl Environ Microbiol** 1997 Jan;63(1):310–3

The atzB gene of Pseudomonas sp. strain ADP encodes the second enzyme of a novel atrazine degradation pathway. Boundy-Mills KL, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):916–23

Cloning and characterization of a locus encoding an indolepyruvate decarboxylase involved in indole-3-acetic acid synthesis in Erwinia herbicola. Brandl MT, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4121–8

Identification and characterization of a Pantoea citrea gene encoding glucose dehydrogenase that is essential for causing pink disease of pineapple. Cha JS, et al. **Appl Environ Microbiol** 1997 Jan;63(1):71–6

Identification and sequence analysis of two regulatory genes involved in anaerobic toluene metabolism by strain T1. Coschigano PW, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):652–60

Assessment of fecal bacteria with bile acid 7 alpha-dehydroxylating activity for the presence of bai-like genes. Doerner KC, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1185–8

Cloning, sequencing, and expression of the gene encoding extracellular alpha-amylase from Pyrococcus furiosus and biochemical characterization of the recombinant enzyme. Dong G, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3569–76

Cloning, sequencing, and expression of the gene encoding amylopullulanase from Pyrococcus furiosus and biochemical characterization of the recombinant enzyme. Dong G, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3577–84

Cloning of the nprA gene for neutral protease A of Bacillus thuringiensis and effect of in vivo deletion of nprA on insecticidal crystal protein. Donovan WP, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2311–7

Development of a species-specific gene probe for Hyphomicrobium facilis with the inverse PCR. Fesefeldt A, et al. **Appl Environ Microbiol** 1997 Jan;63(1):335–7

Diversity and depth-specific distribution of SAR11 cluster rRNA genes from marine planktonic bacteria. Field KG, et al. **Appl Environ Microbiol** 1997 Jan;63(1):63–70

Analysis of cumene (isopropylbenzene) degradation genes from Pseudomonas fluorescens IP01. Habe H, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4471–7

Four genes from Pseudomonas fluorescens that encode the biosynthesis of pyrrolnitrin. Hammer PE, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2147–54

Characterization of the Agrobacterium vitis pehA gene and comparison of the encoded polygalacturonase with the homologous enzymes from Erwinia carotovora and Ralstonia solanacearum. Herlache TC, et al. **Appl Environ Microbiol** 1997 Jan;63(1):338–46

Natural horizontal transfer of a naphthalene dioxygenase gene between bacteria native to a coal tar-contaminated field site. Herrick JB, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2330–7

Characterization of the variable-number tandem repeats in vrrA from different Bacillus anthracis isolates. Jackson PJ, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1400–5

Molecular characterization of the gene encoding an 18-kilodalton small heat shock protein associated with the membrane of Leuconostoc oenos. Jobin MP, et al. **Appl Environ Microbiol** 1997 Feb;63(2):609-14

Homology between genes for aromatic hydrocarbon degradation in surface and deep-subsurface Sphingomonas strains. Kim E, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1467-70

Characterization of an insertion sequence, IS12528, from Gluconobacter suboxydans. Kondo K, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1139-42

Phylogenetic diversity of bacterial symbionts of Solemya hosts based on comparative sequence analysis of 16S rRNA genes. Krueger DM, et al. **Appl Environ Microbiol** 1997 Jan;63(1):91-8

Detection of RTX toxin genes in gram-negative bacteria with a set of specific probes. Kuhnert P, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2258-65

Detection system for Escherichia coli-specific virulence genes: absence of virulence determinants in B and C strains. Kuhnert P, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):703-9

Identification of novel cry-type genes from Bacillus thuringiensis strains on the basis of restriction fragment length polymorphism of the PCR-amplified DNA. Kuo WS, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1369-77

Cloning and characterization of the genes encoding the malolactic enzyme and the malate permease of Leuconostoc oenos. Labarre C, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1274-82

Genetic organization of the mle locus and identification of a mleR-like gene from Leuconostoc oenos. Labarre C, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4493-8

Cloning of cellobiose phosphoenolpyruvate-dependent phosphotransferase genes: functional expression in recombinant Escherichia coli and identification of a putative binding region for disaccharides. Lai X, et al. **Appl Environ Microbiol** 1997 Feb;63(2):355-63

Cloning, sequencing, and overexpression of the Anaerobiospirillum succiniciproducens phosphoenolpyruvate carboxykinase (pckA) gene. Laivenieks M, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2273-80

Cloning, sequencing, and expression of a Thermomonospora fusca protease gene in Streptomyces lividans. Lao G, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4256-9

Single-crossover integration in the Lactobacillus sake chromosome and insertional inactivation of the ptsI and lacL genes. Leloup L, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2117-23

Cloning and functional expression in Escherichia coli of the gene encoding the di- and tripeptide transport protein of Lactobacillus helveticus. Nakajima H, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2213-7

Cloning, sequencing, and expression of isopropylbenzene degradation genes from Pseudomonas sp. strain JR1: identification of isopropylbenzene dioxygenase that mediates trichloroethene oxidation. Pflugmacher U, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3967-77

Cloning of genes coding for L-sorbose and L-sorbosone dehydrogenases from Gluconobacter oxydans and microbial production of 2-keto-L-gulonate, a precursor of L-ascorbic acid, in a recombinant G. oxydans strain. Saito Y, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):454-60

Comparative analysis of Pseudomonas syringae pv. actinidiae and pv. phaseolicola based on phaseolotoxin-resistant ornithine carbamoyltransferase gene (argK) and 16S-23S rRNA intergenic spacer sequences. Sawada H, et al. **Appl Environ Microbiol** 1997 Jan;63(1):282-8

Simultaneous detection of different Rhizobium strains marked with either the Escherichia coli gusA gene or the Pyrococcus furiosus celB gene. Sessitsch A, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4191-4

Molecular cloning and analysis of the ptsHI operon in Lactobacillus sake. Stentz R, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2111-6

Molecular diversity of soil and marine 16S rRNA gene sequences related to beta-subgroup ammonia-oxidizing bacteria. Stephen JR, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4147-54

Identification of a gene for Cyt1A-like hemolysin from Bacillus thuringiensis subsp. medellin and expression in a crystal-negative B. thuringiensis strain. Thiery I, et al. **Appl Environ Microbiol** 1997 Feb;63(2):468-73

Characterization of the gene encoding nitrite reductase and the physiological consequences of its expression in the nondenitrifying Rhizobium "hedysari" strain HCNT1. Toffanin A, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4019-25

Cloning and sequence analysis of genes encoding xylanases and acetyl xylan esterase from Streptomyces thermoviolaceus OPC-520. Tsujibo H, et al. **Appl Environ Microbiol** 1997 Feb;63(2):661-4

Nucleotide sequence and taxonomical distribution of the bacteriocin gene lin cloned from Brevibacterium linens M18. Valdes-Stauber N, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1283-6

Molecular cloning and analysis of the gene encoding the thermostable penicillin G acylase from Alcaligenes faecalis. Verhaert RM, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3412-8

Ethanolic fermentation of xylose with Saccharomyces cerevisiae harboring the Thermus thermophilus xylA gene, which expresses an active xylose (glucose) isomerase. Walfridsson M, et al. **Appl Environ Microbiol** 1996 Dec; 62(12):4648-51

Diversity of uncultured microorganisms associated with the seagrass Halophila stipulacea estimated by restriction fragment length polymorphism analysis of PCR-amplified 16S rRNA genes. Weidner S, et al. **Appl Environ Microbiol** 1996 Mar;62(3):766-71

Expression of the Escherichia coli pmi gene, encoding phosphomannose-isomerase in Zymomonas mobilis, leads to utilization of mannose as a novel growth substrate, which can be used as a selective marker. Weisser P, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4155-61

Bacterial diversity of a Carolina bay as determined by 16S rRNA gene analysis: confirmation of novel taxa. Wise MG, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1505-14

A PCR-based assay for the detection of Escherichia coli Shiga-like toxin genes in ground beef. Witham PK, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1347-53

A novel delta-subdivision proteobacterial lineage from the lower ocean surface layer. Wright TD, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1441-8

Characterization of the gene encoding catechol 2,3-dioxygenase of Alcaligenes sp. KF711: overexpression, enzyme purification, and nucleotide sequencing. Moon J, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):248-54

Identification of stsC, the gene encoding the L-glutamine:scyllo-inosose aminotransferase from streptomycin-producing Streptomycetes. Ahlert J, et al. **Arch Microbiol** 1997 Aug;168(2):102-13

A deletion in the sapA homologue cluster is responsible for the loss of the S-layer in Campylobacter fetus strain TK. Fujita M, et al. **Arch Microbiol** 1997 Apr;167(4):196-201

The sae locus of Staphylococcus aureus controls exoprotein synthesis at the transcriptional level. Giraudo AT, et al. **Arch Microbiol** 1997 Jul;168(1):53-8

Deletion of two downstream genes alters expression of the hmc operon of Desulfovibrio vulgaris subsp. vulgaris Hildenborough. Keon RG, et al. **Arch Microbiol** 1997 Jun; 167(6):376-83

Isolation of the putP gene of Corynebacterium glutamicum and characterization of a low-affinity uptake system for compatible solutes. Peter H, et al. **Arch Microbiol** 1997 Aug;168(2):143-51

Effect of chelating agents and respiratory inhibitors on regulation of the cadA gene in Escherichia coli. Reams SG, et al. **Arch Microbiol** 1997 Apr;167(4):209-16

Cloning and expression of FomA, the major outer-membrane protein gene from Fusobacterium nucleatum T18. Haake SK, et al. **Arch Oral Biol** 1997 Jan;42(1):19-24

nrdD and nrdG genes are essential for strict anaerobic growth of Escherichia coli. Garriga X, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):189-92

Disruption of the hslU gene, which encodes an ATPase subunit of the eukaryotic 26S proteasome homolog in Escherichia coli, suppresses the temperature-sensitive dnaA46 mutation. Katayama T, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):219-24

A dtsR gene-disrupted mutant of Brevibacterium lactofermentum requires fatty acids for growth and efficiently produces L-glutamate in the presence of an excess of biotin. Kimura E, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):157-61

Sequence analysis of the phnD gene encoding 2-hydroxymuconic semialdehyde hydrolase in Pseudomonas sp. strain DJ77. Shin HJ, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):288-91

Cloning, sequencing, and expression of the rpoD gene encoding the primary sigma factor of Xanthomonas campestris. Tseng YS, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):712-8

The gene encoding UDP-glucose pyrophosphorylase is required for the synthesis of xanthan gum in Xanthomonas campestris. Wei CL, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):607-12

The role of mex-gene products in antibiotic extrusion in Pseudomonas aeruginosa. Yoneyama H, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):611-8

The gnd gene encoding a novel 6-phosphogluconate dehydrogenase and its adjacent region of Actinobacillus actinomycetemcomitans chromosomal DNA. Yoshida Y, et al. **Biochem Biophys Res Commun** 1997 Jan 3; 230(1):220-5

A pseudoknot is required for efficient translational initiation and regulation of the Escherichia coli rpsO gene coding for ribosomal protein S15. Ehresmann C, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11-12):1131-40 (34 ref.)

Cloning, sequencing, expression, purification and preliminary characterization of a type II dehydroquinase from Helicobacter pylori. Bottomley JR, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):559-65

New alpha-L-arabinofuranosidase produced by Streptomyces lividans: cloning and DNA sequence of the abfB gene and characterization of the enzyme. Vincent P, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):845-52

Isolation of a gene encoding nodulin-like intrinsic protein of Escherichia coli. Fushimi K, et al. **Biochem Mol Biol Int** 1997 Apr;41(5):995-1003

A method to detect transmembrane helical segments at the nucleotide level. Lesnik T, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):937-55

Organization and nucleotide sequence of genes for hemagglutinin components of Clostridium botulinum type B progenitor toxin. Yang GH, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1141-6

Expression of the Klebsiella pneumoniae alginate lyase gene in Pseudomonas aeruginosa--effect on alginate structure. Tatnell PJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):407S

Overexpression of the GDP-mannose dehydrogenase gene from Pseudomonas aeruginosa. Tatnell PJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):405S

Overexpression of the gene of ribosomal protein L30 from Thermus thermophilus and crystallization of the recombinant protein. Khairullina AR, et al. **Biochemistry (Mosc)** 1997 Feb;62(2):221-4

A novel genetic organization: the leuA-rpoD1 locus in the cyanobacterium Microcystis aeruginosa K-81. Asayama M, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):15-20

A new sigma factor homolog in a cyanobacterium: cloning, sequencing, and light-responsive transcripts of rpoD2 from Microcystis aeruginosa K-81. Asayama M, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):31-6

A 3-hydroxy-3-methylglutaryl-CoA lyase gene in the photosynthetic bacterium Rhodospirillum rubrum. Baltscheffsky M, et al. **Biochim Biophys Acta** 1997 Jan 4; 1337(1):113-22

Cloning, nucleotide sequence and expression of a mannitol dehydrogenase gene from Pseudomonas fluorescens DSM 50106 in Escherichia coli. Brünker P, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):157-67

Cloning and sequencing of the gene encoding the high potential iron-sulfur protein (HiPIP) from the purple sulfur bacterium Chromatium vinosum. Brüser T, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):18-22

Sequence analysis of an internal 9.72-kb segment from the 30-kb denitrification gene cluster of Pseudomonas stutzeri. Glockner AB, et al. **Biochim Biophys Acta** 1996 Nov 12; 1277(1-2):6-12

Cloning and expression of the rubredoxin gene from Desulfovibrio vulgaris (Miyazaki F)--comparison of the primary structure of desulfoferrodoxin. Kitamura M, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):239-47

Cloning and sequencing of novel genes from Vibrio alginolyticus that support the growth of K+ uptake-deficient mutant of Escherichia coli. Nakamura T, et al. **Biochim Biophys Acta** 1996 Dec 18;1277(3):201-8

Cloning and sequence of a thermostable multidomain xylanase from the bacterium Rhodothermus marinus. Nordberg Karlsson E, et al. **Biochim Biophys Acta** 1997 Aug 7;1353(2):118-24

Characteristics of the melibiose transporter and its primary structure in Enterobacter aerogenes. Okazaki N, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):83-91

Molecular cloning and expression of a novel Staphylococcus aureus antigen. Rieneck K, et al. **Biochim Biophys Acta** 1997 Feb 7;1350(2):128-32

Identification of a gene in the euryarchaeal Thermococcus species AN1 encoding a protein homologous to the alpha subunit of the eukaryal signal recognition particle (SRP) receptor. Ronimus RS, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):1-8

Cloning and analysis of the dnaG gene encoding Pseudomonas putida DNA primase. Szafranski P, et al. **Biochim Biophys Acta** 1997 Jun 26;1352(3):243-8

Nucleotide sequence of the Bacillus licheniformis ATCC 10716 dat gene and comparison of the predicted amino acid sequence with those of other bacterial species. Taylor PP, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):38-40

Cloning and sequencing of trehalose synthase gene from Thermus aquaticus ATCC33923. Tsusaki K, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):28-32

The dmsR gene encoding a dimethyl sulfoxide-responsive regulator for expression of dmsCBA (dimethyl sulfoxide respiration genes) in Rhodobacter sphaeroides f. sp. denitrificans. Ujiiye T, et al. **Biochim Biophys Acta** 1997 Jul 17;1353(1):84-92

Gene from tropical Bacillus sphaericus encoding a protease closely related to subtilisins from Antarctic bacilli. Wati MR, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):56-62

Cloning, sequencing and overexpression of the gene encoding malate dehydrogenase from the deep-sea bacterium Photobacterium species strain SS9. Welch TJ, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):41-6

Cloning and sequencing of the hup gene encoding the histone-like protein HSl of Streptomyces lividans. Yokoyama E, et al. **Biochim Biophys Acta** 1997 Aug 7; 1353(2):103-6

recA mutants of E. coli K12: a personal turning point. Clark AJ. **Bioessays** 1996 Sep;18(9):767-72 (31 ref.)

Molecular cloning of the nemA gene encoding N-ethylmaleimide reductase from Escherichia coli. Miura K, et al. **Biol Pharm Bull** 1997 Jan;20(1):110-2

Transient DNA relaxation in Escherichia coli induced by nalidixic acid. Ohtsuka Y, et al. **Biol Pharm Bull** 1997 May; 20(5):467-70

Desferrioxamine-dependent iron transport in Erwinia amylovora CFBP1430: cloning of the gene encoding the ferrioxamine receptor FoxR. Kachadourian R, et al. **Biometals** 1996 Apr;9(2):143-50

Non-virally mediated gene transfer into human central nervous system precursor cells. Cattaneo E, et al.

Brain Res Mol Brain Res 1996 Nov;42(1):161–6

Identification of gene loci controlling pectate lyase production and soft-rot pathogenicity in Pseudomonas marginalis. Liao CH, et al. **Can J Microbiol** 1997 May; 43(5):425–31

Use of Tn5-gusA5 to investigate environmental and nutritional effects on gene expression in the coronatine biosynthetic gene cluster of Pseudomonas syringae pv. glycinea. Palmer DA, et al. **Can J Microbiol** 1997 Jun; 43(6):517–25

Cloning and sequencing of the hyaluronate lyase gene from Propionibacterium acnes. Steiner B, et al. **Can J Microbiol** 1997 Apr;43(4):315–21

Genetic variability of the common nod gene in soybean bradyrhizobia isolated in Thailand and Japan. Yokoyama T, et al. **Can J Microbiol** 1996 Dec;42(12):1209–18

Sequential observation of micrometastasis formation by bacterial lacZ gene-tagged Lewis lung carcinoma cells. Kobayashi K, et al. **Cancer Lett** 1997 Jan 30;112(2):191–8

Introduction and expression of an anti-dipteran toxin gene from B. thuringiensis in nodulating Rhizobia. Guerchicoff A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul; 42(5):729–35

Bacterial resistance to vancomycin: five genes and one missing hydrogen bond tell the story. Walsh CT, et al. **Chem Biol** 1996 Jan;3(1):21–8 (32 ref.)

Comparison of in vitro antimicrobial activity of AM-1155 with those of tosufloxacin and fleroxacin against clinical isolates of Neisseria gonorrhoeae harboring quinolone resistance alterations in GyrA and ParC. Deguchi T, et al. **Chemotherapy** 1997 Jul-Aug;43(4):239–44

Distribution of a methicillin-resistance gene in urinary isolates of methicillin-resistant staphylococci examined by enzymatic detection of the polymerase chain reaction. Sakumoto M, et al. **Chemotherapy** 1996 Sep-Oct; 42(5):329–33

Gene localization and expression of thienamycin cyclase gene in Streptomyces lividans TK24. Li R, et al. **Chin J Biotechnol** 1996;12(1):1–7

Rapid detection of cholera toxin gene of Vibrio cholerae O1 by polymerase chain reaction. Ren S, et al. **Chin Med J (Engl)** 1996 Jun;109(6):494–6

Mobile gene cassettes and integrons: moving antibiotic resistance genes in gram-negative bacteria. Hall RM. **Ciba Found Symp** 1997;207:192–202; discussion 202–5 (21 ref.)

Genetic mobility and distribution of tetracycline resistance determinants. Roberts MC. **Ciba Found Symp** 1997; 207:206–18; discussion 219–22

Molecular evolution of multiply-antibiotic-resistant staphylococci. Skurray RA, et al. **Ciba Found Symp** 1997; 207:167–83; discussion 183–91 (47 ref.)

Detection of genes in Escherichia coli sequences determined by genome projects and prediction of protein production levels, based on multivariate diversity in codon usage. Kanaya S, et al. **Comput Appl Biosci** 1996 Jun;12(3):213–25

The urease complex gene of Yersinia enterocolitica and its role in virulence. de Koning-Ward TF, et al. **Contrib Microbiol Immunol** 1995;13:262–3

Beta-lactamase genes and beta-lactamic susceptibility in Yersinia enterocolitica. de la Prieta MC, et al. **Contrib Microbiol Immunol** 1995;13:184–7

Genetic diversity among Yersinia enterocolitica strains as revealed by sequence analysis of the 16S rRNA gene. Ibrahim A. **Contrib Microbiol Immunol** 1995;13:277–80

Co-expression of a Phanerochaete chrysosporium cellobiohydrolase gene and a Butyrivibrio fibrisolvens endo-beta-1,4-glucanase gene in Saccharomyces cerevisiae. van Rensburg P, et al. **Curr Genet** 1996 Aug; 30(3):246–50

The plant oncogene rolD stimulates flowering in transgenic tobacco plants. Mauro ML, et al. **Dev Biol** 1996 Dec 15; 180(2):693–700

Phenotypic detection of mec A-positive staphylococcal blood stream isolates: high accuracy of simple disk diffusion tests. Cormican MG, et al. **Diagn Microbiol Infect Dis** 1996 Jul;25(3):107–12

Structure of the dnaA region of the endosymbiont, Buchnera aphidicola, of aphid Schizaphis graminum. Hassan AK, et al. **DNA Res** 1996 Dec 31;3(6):415–9

Compilation of all genes encoding bacterial two-component signal transducers in the genome of the cyanobacterium, Synechocystis sp. strain PCC 6803. Mizuno T, et al. **DNA Res** 1996 Dec 31;3(6):407–14

Identification of genes encoding for peptide synthetases in the gram-negative bacterium Lysobacter sp. ATCC 53042 and the fungus Cylindrotrichum oligospermum. Bernhard F, et al. **DNA Seq** 1996;6(6):319–30

Genetic analysis of the acetan biosynthetic pathway in Acetobacter xylinum: nucleotide sequence analysis of the aceB, aceC, aceD and aceE genes. Griffin AM, et al. **DNA Seq** 1996;6(5):275–84

Identification and sequences of the Treponema pallidum mglA and mglC genes. Stamm LV, et al. **DNA Seq** 1996; 6(5):293–8

Towards a proteome project of cyanobacterium Synechocystis sp. strain PCC6803: linking 130 protein spots with their respective genes. Sazuka T, et al. **Electrophoresis** 1997 Aug;18(8):1252–8

The aminonucleoside antibiotic A201A is inactivated by a phosphotransferase activity from Streptomyces capreolus NRRL 3817, the producing organism. Isolation and molecular characterization of the relevant encoding gene and its DNA flanking regions. Barrasa MI, et al. **Eur J Biochem** 1997 Apr 1;245(1):54–63

Sequencing and expression of the gene encoding a cold-active citrate synthase from an Antarctic bacterium, strain DS2-3R. Gerike U, et al. **Eur J Biochem** 1997 Aug 15;248(1):49–57

Transcription analysis of the genes tcdA-E of the pathogenicity locus of Clostridium difficile. Hundsberger T, et al. **Eur J Biochem** 1997 Mar 15;244(3):735–42

Structure and function of a second gene cluster encoding the formate dehydrogenase of Wolinella succinogenes. Lenger R, et al. **Eur J Biochem** 1997 Jun 15;246(3):646–51

Molecular cloning and nucleotide sequence of an endo-1,5-alpha-L-arabinase gene from Bacillus subtilis. Sakamoto T, et al. **Eur J Biochem** 1997 May 1; 245(3):708–14

Specific binding of DnaA protein to a DnaA box in the guaB gene of Escherichia coli K12. Tesfa-Selase F, et al. **Eur J Biochem** 1996 Oct 15;241(2):411–6

Vancomycin-resistant Bacillus circulans carrying the vanA gene responsible for vancomycin resistance in enterococci [letter] Fontana R, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):473–4

Are variable repeats in the spa gene suitable targets for epidemiological studies of methicillin-resistant Staphylococcus aureus strains? [letter; comment] van Belkum A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep; 15(9):768–70. Comment on: Eur J Clin Microbiol Infect Dis 1996 Jan;15(1):60–4.

A putative cytochrome c biogenesis gene in Synechocystis sp. PCC 6803. Hubschmann T, et al. **FEBS Lett** 1997 May 19;408(2):201–5

Function of the repeated sequence in the 3' flanking region of the Escherichia coli rnpB gene on transcription termination and RNA processing. Kim S, et al. **FEBS Lett** 1997 May 5;407(3):353–6

Bacillus subtilis DegU acts as a positive regulator for comK expression. Ogura M, et al. **FEBS Lett** 1996 Nov 18; 397(2-3):173–6

Identification of the 4-hydroxyphenylacetate transport gene of Escherichia coli W: construction of a highly sensitive cellular biosensor. Prieto MA, et al. **FEBS Lett** 1997 Sep 8;414(2):293–7

A novel delta-endotoxin gene cryIM from Bacillus thuringiensis ssp. wuhanensis. Shevelev AB, et al. **FEBS Lett** 1997 Mar 10;404(2-3):148–52

Scavengase p20: a novel family of bacterial antioxidant enzymes. Wan XY, et al. **FEBS Lett** 1997 Apr 21; 407(1):32–6

Disruption of a Synechocystis sp. PCC 6803 gene with partial similarity to phytochrome genes alters growth under changing light qualities [published erratum appears in FEBS Lett 1997 Jul 28;412(2):404] Wilde A, et al. **FEBS Lett** 1997 Apr 7;406(1-2):89–92

Distribution, cloning, characterisation and mutagenesis of sodC, the gene encoding copper/zinc superoxide dismutase, a potential determinant of virulence, in Haemophilus ducreyi. Langford PR, et al. **FEMS Immunol Med Microbiol** 1997 Apr;17(4):235–42

Molecular analysis of the genes mediating Salmonella invasion. Park JU. **FEMS Immunol Med Microbiol** 1997 Jun;18(2):113–7

The methanol oxidation genes mxaFJGIR (S) ACKLD in Methylobacterium extorquens [published erratum appears in FEMS Microbiol Lett 1997 May 1;150(1):175–7] Amaratunga K, et al. **FEMS Microbiol Lett** 1997 Jan 1; 146(1):31–8

Cloning, sequencing and complementation analysis of the recA gene from Prevotella ruminicola [published erratum appears in FEMS Microbiol Lett 1996 Dec 15;145(3):473] Aminov RI, et al. **FEMS Microbiol Lett** 1996 Oct 15; 144(1):53–9

Cloning and characterization of the eae gene from a dog attaching and effacing Escherichia coli strain 4221. An H, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):239–45

Suppression of heterocyst differentiation in Anabaena PCC 7120 by a cosmid carrying wild-type genes encoding enzymes for fatty acid synthesis. Bauer CC, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):23–30

Gene sequence analysis and properties of EGC, a family E (9) endoglucanase from Fibrobacter succinogenes BL2. Bera C, et al. **FEMS Microbiol Lett** 1996 Feb 1; 136(1):79–84

Cloning and characterization of corA, a gene encoding a copper-repressible polypeptide in the type I methanotroph, Methylomicrobium albus BG8. Berson O, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):169–74

Cloning of a Bacillus sp. BP-23 gene encoding a xylanase with high activity against aryl xylosides. Blanco A, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):285–90

1-Aminocyclopropane-1-carboxylate deaminase genes from Pseudomonas strains. Campbell BG, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):207–10

Two 16S-23S ribosomal DNA intergenic regions in different Treponema pallidum subspecies contain tRNA genes. Centurion-Lara A, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2-3):235–40

Identification of a locus involved in the utilization of iron by Actinobacillus pleuropneumoniae. Chin N, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):1–6

Cloning of a gene encoding cinnamoyl ester hydrolase from the ruminal bacterium Butyrivibrio fibrisolvens E14 by a novel method. Dalrymple BP, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2-3):115–20

Distribution of the synergistic haemolysin genes hld and slush with respect to agr in human staphylococci. Donvito B, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):139–44

Importance of the galE gene on the virulence of Pasteurella multocida. Fernández de Henestrosa AR, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):311–6

Identification of the serine acetyltransferase gene of Staphylococcus xylosus. Fiegler H, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):181–7

Promoter analysis of the catalase-peroxidase gene (cpeA) from Rhodobacter capsulatus. Forkl H, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):169–74

Isolation and characterization of the 54-kDa and 22-kDa chitinase genes of Serratia marcescens KCTC2172. Gal SW, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):197–204

An Escherichia coli gene divergently transcribed from a promoter overlapping the metA $p_1$omoter. Gery S, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):219–22

Identification and characterization of the pqqDGC gene cluster involved in pyrroloquinoline quinone production in an obligate methylotroph Methylobacillus flagellatum. Gomelsky M, et al. **FEMS Microbiol Lett** 1996 Aug 1; 141(2-3):169–76

Cloning of the aceF gene encoding the phosphomannose isomerase and GDP-mannose pyrophosphorylase activities involved in acetan biosynthesis in Acetobacter xylinum. Griffin AM, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):389–96

Identification, cloning and sequencing the aceA gene involved in acetan biosynthesis in Acetobacter xylinum. Griffin AM, et al. **FEMS Microbiol Lett** 1996 Mar 15; 137(1):115–21

Transcription of the Campylobacter jejuni cell division gene ftsA. Griffiths PL, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):83–7

Identification of a new prp locus required for propionate catabolism in Salmonella typhimurium LT2. Hammelman TA, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):233–9

Phylogenetic analysis of tnpR genes in mercury resistant soil bacteria: the relationship between DNA sequencing and RFLP typing approaches. Holt RJ, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):95–102

Improved methods for in situ enzymatic amplification and detection of low copy number genes in bacteria. Jacobs D, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):65–73

Isolation and characterization of hemolytic genes from Actinobacillus actinomycetemcomitans. Kato T, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2-3):217–21

Evaluation of using a short region of the recA gene for rapid and sensitive speciation of dominant bifidobacteria in the human large intestine. Kullen MJ, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):377–83

Cooperative MetR binding in the Escherichia coli glyA control region. Lorenz E, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):147–52

Glycerol conversion to 1,3-propanediol by Clostridium pasteurianum: cloning and expression of the gene encoding 1,3-propanediol dehydrogenase. Luers F, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):337–45

Molecular studies on a new genetic locus linked to the common nodulation genes in Bradyrhizobium japonicum. Luka S, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):145–51

Expression of the heme biosynthetic pathway genes hemCD, hemH, hemM, and hemA of Escherichia coli. McNicholas PM, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):143–8

Relationship between pathogenicity of Coxiella burnetii isolates and gene sequences of the macrophage infectivity potentiator (Cbmip) and sensor-like protein (qrsA). Masuzawa T, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):201–5

Characterization and sequence of the Escherichia coli panBCD gene cluster. Merkel WK, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2-3):247–52

Mutations in the gyrA and parC genes associated with fluoroquinolone resistance in clinical isolates of Citrobacter freundii. Nishino Y, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):409–14

Characterization of malate dehydrogenase from deep-sea psychrophilic Vibrio sp. strain no. 5710 and cloning of its gene. Ohkuma M, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2-3):247–52

Collagenase gene (colA) is located in the 3'-flanking region of the perfringolysin O (pfoA) locus in Clostridium perfringens. Ohtani K, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):155–9

Role of gyrA mutation and loss of OprF in the multiple antibiotic resistance phenotype of Pseudomonas aeruginosa G49. Pumbwe L, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):25–8

Evidence for regulation of the NADH peroxidase gene (npr) from Enterococcus faecalis by OxyR. Ross RP, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):177–83

Characterization of polymorphisms in the toxin A and B genes of Clostridium difficile. Rupnik M, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):197–202

Transformation of a virulence associated gene of Haemophilus somnus into a strain lacking the gene. Sanders JD, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):251–8

Linker insertion analysis of the FimH adhesin of type 1 fimbriae in an Escherichia coli fimH-null background. Schembri MA, et al. **FEMS Microbiol Lett** 1996 Apr 1; 137(2-3):257-63

Involvement of iclR and rpoS in the induction of acs, the gene for acetyl coenzyme A synthetase of Escherichia coli K-12. Shin S, et al. **FEMS Microbiol Lett** 1997 Jan 1; 146(1):103-8

The rpoD gene functions as a multicopy suppressor for mutations in the chaperones, CbpA, DnaJ and DnaK, in Escherichia coli. Shiozawa T, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):245-50

Is the CvaA protein, encoded within the colicin V export gene cvaA, required for colicin V transport? Skvirsky RC, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):201-6

Identification and sequence analysis of Sulfolobus solfataricus purE and purK genes. Sørensen IS, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):173-80

Cloning and characterization of the Neisseria meningitidis rfaC gene encoding alpha-1,5 heptosyltransferase I. Stojiljkovic I, et al. **FEMS Microbiol Lett** 1997 Jun 1; 151(1):41-9

Characterization of pepR1, a gene coding for a potential transcriptional regulator of Lactobacillus delbrueckii subsp. lactis DSM7290. Stucky K, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):63-9

Cloning and analysis of methanol oxidation genes in the methylotroph Hyphomicrobium methylovorum GM2. Tanaka Y, et al. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):397-401

Rifampicin resistance and mutation of the rpoB gene in Mycobacterium tuberculosis. Taniguchi H, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):103-8

A nested polymerase chain reaction for the detection of Borrelia burgdorferi sensu lato based on a multiple sequence analysis of the hbb gene. Valsangiacomo C, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):25-9

Characterization of Borrelia garinii isolated from Lyme disease patients in Hokkaido, Japan, by sequence analysis of OspA and OspB genes. Wang J, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):371-5

Identification and sequencing of a novel insertion sequence, IS1471, in Burkholderia cepacia strain 2a. Xia XS, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2-3):203-6

Novel organization of catechol meta-pathway genes in Sphingomonas sp. HV3 pSKY4 plasmid. Yrjälä K, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):403-8

Tetracycline resistance determinants: mechanisms of action, regulation of expression, genetic mobility, and distribution. Roberts MC. **FEMS Microbiol Rev** 1996 Oct;19(1):1-24 (131 ref.)

Location of the alpha-amylase gene in rumen Streptococcus bovis strains distinguished by unstable amylase activity. Mareková M, et al. **Folia Microbiol (Praha)** 1995; 40(2):181-4

Expression of Escherichia coli recA and ada genes in Saccharomyces cerevisiae using a vector with geneticin resistance. Slaninová M, et al. **Folia Microbiol (Praha)** 1995; 40(3):257-62

Type-4 pili: biogenesis, adhesins, protein export and DNA import. Proceedings of a workshop. Rottach-Egern, Germany, 26-29 November 1995. **Gene** 1997 Jun 11; 192(1):1-198

Genes involved in the biogenesis and function of type-4 fimbriae in Pseudomonas aeruginosa. Alm RA, et al. **Gene** 1997 Jun 11;192(1):89-98

The isolation of novel heat shock genes in Lactococcus lactis using RNA subtractive hybridization. Arnau J, et al. **Gene** 1997 Apr 1;188(2):229-34

Molecular genetic analysis of type-4 pilus biogenesis and twitching motility using Pseudomonas aeruginosa as a model system--a review. Darzins A, et al. **Gene** 1997 Jun 11;192(1):109-15 (56 ref.)

Biodegradation of 2,4,5-trichlorophenoxyacetic acid by Burkholderia cepacia strain AC1100: evolutionary insight. Daubaras DL, et al. **Gene** 1996 Nov 7;179(1):1-8 (40 ref.)

Isolation and characterization of the Haemophilus influenzae uvrA gene. de la Morena ML, et al. **Gene** 1996 Oct 24; 177(1-2):23-8

The RLEP-flanked polA gene from Mycobacterium leprae is not transcribed in Mycobacterium smegmatis. Gordhan BG, et al. **Gene** 1997 Mar 10;187(1):63-6

A gyrB-like gene from the hyperthermophilic bacterion Thermotoga maritima. Guipaud O, et al. **Gene** 1996 Sep 26;174(1):121-8

Probing the structure of catalase HPII of Escherichia coli--a review. Loewen P. **Gene** 1996 Nov 7;179(1):39-44

The tcp gene cluster of Vibrio cholerae. Manning PA. **Gene** 1997 Jun 11;192(1):63-70

The bphDEF meta-cleavage pathway genes involved in biphenyl/polychlorinated biphenyl degradation are located on a linear plasmid and separated from the initial bphACB genes in Rhodococcus sp. strain RHA1. Masai E, et al. **Gene** 1997 Mar 10;187(1):141-9

Finding new mutator strains of Escherichia coli--a review. Miller JH, et al. **Gene** 1996 Nov 7;179(1):129-32 (11 ref.)

Nucleotide sequence of the ermE distal flank of the erythromycin biosynthesis cluster in Saccharopolyspora erythraea. Pereda A, et al. **Gene** 1997 Jul 1;193(1):65-71

Characterization of spaA, a Streptomyces coelicolor gene homologous to a gene involved in sensing starvation in Escherichia coli. Schneider D, et al. **Gene** 1996 Oct 24; 177(1-2):243-51

Isolation and characterization of the Haemophilus influenzae tolQ, tolR, tolA and tolB genes. Sen K, et al. **Gene** 1996 Oct 31;178(1-2):75-81

A Bacillus subtilis locus encoding several gene products affecting transport of cations. Sturr MG, et al. **Gene** 1997 Mar 25;188(1):91-4

Use of polymerase chain reaction to identify a leucyl tRNA in Streptomyces coelicolor. Trepanier NK, et al. **Gene** 1997 Jul 1;193(1):59-63

Sequencing and analysis of the Thermus thermophilus ribosomal protein gene cluster equivalent to the spectinomycin operon. Vysotskaya VS, et al. **Gene** 1997 Jul 1;193(1):23-30

Type-4 pili of Kingella denitrificans. Weir S, et al. **Gene** 1997 Jun 11;192(1):171-6

Expression of chitinase-encoding genes from Aeromonas hydrophila and Pseudomonas maltophilia in Bacillus thuringiensis subsp. israelensis. Wiwat C, et al. **Gene** 1996 Nov 7;179(1):119-26

Porin from the halophilic species Ectothiorhodospira vacuolata: cloning, structure of the gene and comparison with other porins. Wölf E, et al. **Gene** 1997 Jun 3; 191(2):225-32

Isolation and characterization of suppressors of two Escherichia coli dnaG mutations, dnaG2903 and parB. Britton RA, et al. **Genetics** 1997 Apr;145(4):867-75

A eubacterial gene conferring spectinomycin resistance on Chlamydomonas reinhardtii: integration into the nuclear genome and gene expression. Cerutti H, et al. **Genetics** 1997 Jan;145(1):97-110

Gene replacement with linear DNA fragments in wild-type Escherichia coli: enhancement by Chi sites. Dabert P, et al. **Genetics** 1997 Apr;145(4):877-89

A mutation in a new gene, bglJ, activates the bgl operon in Escherichia coli K-12. Giel M, et al. **Genetics** 1996 Jun; 143(2):627-35

Overproduction of three genes leads to camphor resistance and chromosome condensation in Escherichia coli. Hu KH, et al. **Genetics** 1996 Aug;143(4):1521-32

Identification of a family of intimins common to Escherichia coli causing attaching-effacing lesions in rabbits, humans, and swine. Agin TS, et al. **Infect Immun** 1997 Jan; 65(1):320-6

Anaplasma marginale major surface protein 3 is encoded by a polymorphic, multigene family. Alleman AR, et al. **Infect Immun** 1997 Jan;65(1):156-63

Synergistic effect of mutations in invA and lpfC on the ability of Salmonella typhimurium to cause murine typhoid. Bäumler AJ, et al. **Infect Immun** 1997 Jun;65(6):2254-9

Identification and characterization of a novel PrfA-regulated gene in Listeria monocytogenes whose product, IrpA, is highly homologous to internalin proteins, which contain leucine-rich repeats. Domann E, et al. **Infect Immun** 1997 Jan;65(1):101-9

Synergistic hemolytic activity of Staphylococcus lugdunensis is mediated by three peptides encoded by a non-agr genetic locus. Donvito B, et al. **Infect Immun** 1997 Jan;65(1):95-100

Differential influence of the two Bacillus anthracis plasmids on regulation of virulence gene expression. Fouet A, et al. **Infect Immun** 1996 Dec;64(12):4928-32

Cloning and characterization of the Bacteroides fragilis metalloprotease toxin gene. Franco AA, et al. **Infect Immun** 1997 Mar;65(3):1007-13

The hemagglutinin gene A (hagA) of Porphyromonas gingivalis 381 contains four large, contiguous, direct repeats. Han N, et al. **Infect Immun** 1996 Oct;64(10):4000-7

Analysis of proteins encoded by the ptx and ptl genes of Bordetella bronchiseptica and Bordetella parapertussis. Hausman SZ, et al. **Infect Immun** 1996 Oct;64(10):4020-6

Effects of overexpression of the alkyl hydroperoxide reductase AhpC on the virulence and isoniazid resistance of Mycobacterium tuberculosis. Heym B, et al. **Infect Immun** 1997 Apr;65(4):1395-401

An iron- and fur-repressed Legionella pneumophila gene that promotes intracellular infection and encodes a protein with similarity to the Escherichia coli aerobactin synthetases. Hickey EK, et al. **Infect Immun** 1997 Jan; 65(1):133-43

The anthrax toxin activator gene atxA is associated with CO2-enhanced non-toxin gene expression in Bacillus anthracis. Hoffmaster AR, et al. **Infect Immun** 1997 Aug; 65(8):3091-9

Proteus mirabilis mannose-resistant, Proteus-like fimbriae: MrpG is located at the fimbrial tip and is required for fimbrial assembly. Li X, et al. **Infect Immun** 1997 Apr; 65(4):1327-34

Fibronectin-binding protein of Streptococcus equi subsp. zooepidemicus. Lindmark H, et al. **Infect Immun** 1996 Oct; 64(10):3993-9

Molecular cloning, purification, and serological characterization of MPT63, a novel antigen secreted by Mycobacterium tuberculosis. Manca C, et al. **Infect Immun** 1997 Jan;65(1):16-23

Proteus mirabilis ambient-temperature fimbriae: cloning and nucleotide sequence of the aft gene cluster. Massad G, et al. **Infect Immun** 1996 Oct;64(10):4390-5

Analysis of the Legionella pneumophila flil gene: intracellular growth of a defined mutant defective for flagellum biosynthesis. Merriam JJ, et al. **Infect Immun** 1997 Jun;65(6):2497-501

Identification of the ADP-L-glycero-D-manno-heptose-6-epimerase (rfaD) and heptosyltransferase II (rfaF) biosynthesis genes from nontypeable Haemophilus influenzae 2019. Nichols WA, et al. **Infect Immun** 1997 Apr;65(4):1377-86

Pelvic inflammatory disease isolates of Neisseria gonorrhoeae are distinguished by C1q-dependent virulence for newborn rats and by the sac-4 region. Nowicki S, et al. **Infect Immun** 1997 Jun;65(6):2094-9

Examination of diarrheagenicity of cytolethal distending toxin: suckling mouse response to the products of the cdtABC genes of Shigella dysenteriae. Okuda J, et al. **Infect Immun** 1997 Feb;65(2):428-33

Production of a complete binary toxin (actin-specific ADP-ribosyltransferase) by Clostridium difficile CD196. Perelle S, et al. **Infect Immun** 1997 Apr;65(4):1402-7

Molecular definition and identification of new proteins of Mycobacterium leprae. Pessolani MC, et al. **Infect Immun** 1996 Dec;64(12):5425-7

Characterization of the Streptococcus pneumoniae immunoglobulin A1 protease gene (iga) and its translation product. Poulsen K, et al. **Infect Immun** 1996 Oct; 64(10):3957-66

Cloning, expression, and molecular characterization of the dermonecrotic toxin gene of Bordetella spp. Pullinger GD, et al. **Infect Immun** 1996 Oct;64(10):4163-71

Evidence that PrfA, the pleiotropic activator of virulence genes in Listeria monocytogenes, can be present but inactive. Renzoni A, et al. **Infect Immun** 1997 Apr; 65(4):1515-8

Salmonella typhimurium aroA, htrA, and aroD htrA mutants cause progressive infections in athymic (nu/nu) BALB/c mice. Sinha K, et al. **Infect Immun** 1997 Apr;65(4):1566-9

Differences in virulence and in expression of PrfA and PrfA-regulated virulence genes of Listeria monocytogenes strains belonging to serogroup 4. Sokolovic Z, et al. **Infect Immun** 1996 Oct;64(10):4008-19

Cloning of the glutamine synthetase gene from group B streptococci. Suvorov AN, et al. **Infect Immun** 1997 Jan; 65(1):191-6

Avirulence of LT2 strains of Salmonella typhimurium results from a defective rpoS gene. Swords WE, et al. **Infect Immun** 1997 Jun;65(6):2451-3

Identification, cloning, and sequencing of the immunoglobulin A1 protease gene of Streptococcus pneumoniae. Wani JH, et al. **Infect Immun** 1996 Oct; 64(10):3967-74

Identification of four complete type 4 pilin genes in a single Kingella denitrificans genome. Weir S, et al. **Infect Immun** 1996 Dec;64(12):4993-9

An altered rpoS allele contributes to the avirulence of Salmonella typhimurium LT2. Wilmes-Riesenberg MR, et al. **Infect Immun** 1997 Jan;65(1):203-10

Distribution of drb genes coding for Dr binding adhesins among uropathogenic and fecal Escherichia coli isolates and identification of new subtypes. Zhang L, et al. **Infect Immun** 1997 Jun;65(6):2011-8

Detection of the intercellular adhesion gene cluster (ica) and phase variation in Staphylococcus epidermidis blood culture strains and mucosal isolates. Ziebuhr W, et al. **Infect Immun** 1997 Mar;65(3):890-6

Detection of pathogenic Yersinia enterocolitica in milk and pork using a DIG-labelled probe targeted against the yst gene. Durisin MD, et al. **Int J Food Microbiol** 1997 Jul 22;37(2-3):103-12

Comparison of partial citrate synthase gene (gltA) sequences for phylogenetic analysis of Bartonella species. Birtles RJ, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):891-7

Organization and phylogenetic interrelationships of genes encoding components of the botulinum toxin complex in proteolytic Clostridium botulinum types A, B, and F: evidence of chimeric sequences in the gene encoding the nontoxic nonhemagglutinin component. East AK, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):1105-12

The ribosomal intergenic spacer and domain I of the 23S rRNA gene are phylogenetic markers for Chlamydia spp. Everett KD, et al. **Int J Syst Bacteriol** 1997 Apr; 47(2):461-73

Phylogenetic analysis of the genus Chlamydia based on 16S rRNA gene sequences. Pudjiatmoko, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):425-31

Citrate synthase gene comparison, a new tool for phylogenetic analysis, and its application for the rickettsiae. Roux V, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):252-61

Subspecific differentiation of Mycobacterium avium complex strains by automated sequencing of a region of the gene (hsp65) encoding a 65-kilodalton heat shock protein. Swanson DS, et al. **Int J Syst Bacteriol** 1997 Apr; 47(2):414-9

Detection of tet(K) and tet(M) in Staphylococcus aureus of Asian countries by the polymerase chain reaction. Warsa UC, et al. **J Antibiot (Tokyo)** 1996 Nov;49(11):1127-32

Methicillin susceptibility testing of staphylococci by Etest and comparison with agar dilution and mecA detection. Weller TM, et al. **J Antimicrob Chemother** 1997 Feb; 39(2):251-3

beta-lactamase negative, methicillin-resistant Staphylococcus aureus lacking the mecA gene determinant [letter] Zaher A, et al. **J Antimicrob Chemother** 1997 Jan; 39(1):108-9

Identification and characterization of uvrA, a DNA repair gene of Deinococcus radiodurans. Agostini HJ, et al. **J Bacteriol** 1996 Dec;178(23):6759-65

Cloning, DNA sequencing, and expression of the gene encoding Clostridium thermocellum cellulase CelJ, the largest catalytic component of the cellulosome. Ahsan MM, et al. **J Bacteriol** 1996 Oct;178(19):5732–40

Characterization of the nitric oxide reductase–encoding region in Rhodobacter sphaeroides 2.4.3. Bartnikas TB, et al. **J Bacteriol** 1997 Jun;179(11):3534–40

The 32–kilobase exp gene cluster of Rhizobium meliloti directing the biosynthesis of galactoglucan: genetic organization and properties of the encoded gene products. Becker A, et al. **J Bacteriol** 1997 Feb;179(4):1375–84

Identification and characterization of an operon of Helicobacter pylori that is involved in motility and stress adaptation. Beier D, et al. **J Bacteriol** 1997 Aug; 179(15):4676–83

Evidence for two possible glnB–type genes in Herbaspirillum seropedicae. Benelli EM, et al. **J Bacteriol** 1997 Jul; 179(14):4623–6

Characterization of the rcsB gene from Erwinia amylovora and its influence on exopioysaccharide synthesis and virulence of the fire blight pathogen. Bereswill S, et al. **J Bacteriol** 1997 Feb;179(4):1354–61

3–hydroxy–3–methylglutaryl coenzyme A reductase of Sulfolobus solfataricus: DNA sequence, phylogeny, expression in Escherichia coli of the hmgA gene, and purification and kinetic characterization of the gene product. Bochar DA, et al. **J Bacteriol** 1997 Jun; 179(11):3632–8

The Myxococcus xanthus developmentally expressed asgB–dependent genes can be targets of the A signal–generating or A signal–responding pathway. Bowden MG, et al. **J Bacteriol** 1996 Nov;178(22):6628–31

Comparative genetics of the inv–spa invasion gene complex of Salmonella enterica. Boyd EF, et al. **J Bacteriol** 1997 Mar;179(6):1985–91

Identification of LytSR–regulated genes from Staphylococcus aureus. Brunskill EW, et al. **J Bacteriol** 1996 Oct;178(19):5810–2

Mutation of the Bacillus subtilis alkyl hydroperoxide reductase (ahpCF) operon reveals compensatory interactions among hydrogen peroxide stress genes. Bsat N, et al. **J Bacteriol** 1996 Nov;178(22):6579–86

Characterization of a large chromosomal "high–pathogenicity island" in biotype 1B Yersinia enterocolitica. Carniel E, et al. **J Bacteriol** 1996 Dec;178(23):6743–51

Evolutionary analysis of the hisCGABdFDEHI gene cluster from the archaeon Sulfolobus solfataricus P2. Charlebois RL, et al. **J Bacteriol** 1997 Jul;179(13):4429–32

Transcriptional regulation of delta–aminolevulinic acid dehydratase synthesis by oxygen in Bradyrhizobium japonicum and evidence for developmental control of the hemB gene. Chauhan S, et al. **J Bacteriol** 1997 Jun; 179(11):3706–10

Physiological changes and alk gene instability in Pseudomonas oleovorans during induction and expression of alk genes. Chen Q, et al. **J Bacteriol** 1996 Sep; 178(18):5508–12

sar Genetic determinants necessary for transcription of RNAII and RNAIII in the agr locus of Staphylococcus aureus. Cheung AL, et al. **J Bacteriol** 1997 Jun; 179(12):3963–71

Isolation and expression of the catA gene encoding the major vegetative catalase in Streptomyces coelicolor Müller. Cho YH, et al. **J Bacteriol** 1997 Jun;179(12):4049–52

A two–component system in Ralstonia (Pseudomonas) solanacearum modulates production of PhcA–regulated virulence factors in response to 3–hydroxypalmitic acid methyl ester. Clough SJ, et al. **J Bacteriol** 1997 Jun; 179(11):3639–48

Molecular cloning and expression of the spsB gene encoding an essential type I signal peptidase from Staphylococcus aureus. Cregg KM, et al. **J Bacteriol** 1996 Oct; 178(19):5712–8

Isolation and characterization of two genes, waaC (rfaC) and waaF (rfaF), involved in Pseudomonas aeruginosa serotype O5 inner–core biosynthesis. de Kievit TR, et al. **J Bacteriol** 1997 Jun;179(11):3451–7

The Helicobacter pylori ureC gene codes for a phosphoglucosamine mutase. De Reuse H, et al. **J Bacteriol** 1997 Jun;179(11):3488–93

Characterization of Lactococcus lactis UV–sensitive mutants obtained by ISS1 transposition. Duwat P, et al. **J Bacteriol** 1997 Jul;179(14):4473–9

Characterization of catechol catabolic genes from Rhodococcus erythropolis 1CP. Eulberg D, et al. **J Bacteriol** 1997 Jan;179(2):370–81

Conservation of msp, the gene encoding the major outer membrane protein of oral Treponema spp. Fenno JC, et al. **J Bacteriol** 1997 Feb;179(4):1082–9

Characterization and expression of the plasmid–borne bedD gene from Pseudomonas putida ML2, which codes for a NAD+–dependent cis–benzene dihydrodiol dehydrogenase. Fong KP, et al. **J Bacteriol** 1996 Oct; 178(19):5592–601

Multiple transcribed elements control expression of the Escherichia coli btuB gene. Franklund CV, et al. **J Bacteriol** 1997 Jun;179(12):4039–42

The Escherichia coli stpA gene is transiently expressed during growth in rich medium and is induced in minimal medium and by stress conditions. Free A, et al. **J Bacteriol** 1997 Feb;179(3):909–18

Nucleotide sequences and regulational analysis of genes involved in conversion of aniline to catechol in Pseudomonas putida UCC22(pTDN1). Fukumori F, et al. **J Bacteriol** 1997 Jan;179(2):399–408

The Helicobacter pylori gene encoding phosphatidylserine synthase: sequence, expression, and insertional mutagenesis. Ge Z, et al. **J Bacteriol** 1997 Aug;179(16):4970–6

Analysis of the cbbXYZ operon in Rhodobacter sphaeroides. Gibson JL, et al. **J Bacteriol** 1997 Feb;179(3):663–9

Construction and characterization of a mutant of alkaliphilic Bacillus firmus OF4 with a disrupted cta operon and purification of a novel cytochrome bd. Gilmour R, et al. **J Bacteriol** 1997 Feb;179(3):863–70

The Staphylococcus aureus ileS gene, encoding isoleucyl–tRNA synthetase, is a member of the T–box family. Grundy FJ, et al. **J Bacteriol** 1997 Jun; 179(11):3767–72

Cloning and characterization of two Serratia marcescens genes involved in core lipopolysaccharide biosynthesis. Guasch JF, et al. **J Bacteriol** 1996 Oct;178(19):5741–7

A genetic locus involved in iron utilization unique to some Campylobacter strains. Guerry P, et al. **J Bacteriol** 1997 Jun;179(12):3997–4002

nfi, the gene for endonuclease V in Escherichia coli K–12. Guo G, et al. **J Bacteriol** 1997 Jan;179(2):310–6

The ggtA gene encodes a subunit of the transport system for the osmoprotective compound glucosylglycerol in Synechocystis sp. strain PCC 6803. Hagemann M, et al. **J Bacteriol** 1997 Feb;179(3):714–20

Overexpression and characterization of a prolyl endopeptidase from the hyperthermophilic archaeon Pyrococcus furiosus. Harwood VJ, et al. **J Bacteriol** 1997 Jun;179(11):3613–8

Dihydroneopterin triphosphate epimerase of Escherichia coli: purification, genetic cloning, and expression. Haussmann C, et al. **J Bacteriol** 1997 Feb;179(3):949–51

Cloning and analysis of the pepV dipeptidase gene of Lactococcus lactis MG1363. Hellendoorn MA, et al. **J Bacteriol** 1997 Jun;179(11):3410–5

Analysis of the boundaries of Salmonella pathogenicity island 2 and the corresponding chromosomal region of Escherichia coli K–12. Hensel M, et al. **J Bacteriol** 1997 Feb;179(4):1105–11

Cloning and characterization of the katA gene of Rhizobium meliloti encoding a hydrogen peroxide–inducible catalase. Hérouart D, et al. **J Bacteriol** 1996 Dec;178(23):6802–9

Cloning and heterologous expression of the entire gene clusters for PD 116740 from Streptomyces strain WP 4669 and tetrangulol and tetrangomycin from Streptomyces rimosus NRRL 3016. Hong ST, et al. **J Bacteriol** 1997 Jan; 179(2):470–6

Propionate catabolism in Salmonella typhimurium LT2: two divergently transcribed units comprise the prp locus at 8.5 centisomes, prpR encodes a member of the sigma–54 family of activators, and the prpBCDE genes constitute an operon. Horswill AR, et al. **J Bacteriol** 1997 Feb;179(3):928–40

Characterization of in–frame proteins encoded by cvaA, an essential gene in the colicin V secretion system: CvaA* stabilizes CvaA to enhance secretion. Hwang J, et al. **J Bacteriol** 1997 Feb;179(3):689–96

Unbalanced membrane phospholipid compositions affect transcriptional expression of certain regulatory genes in Escherichia coli. Inoue K, et al. **J Bacteriol** 1997 May; 179(9):2872–8

Escherichia coli endonuclease VIII: cloning, sequencing, and overexpression of the nei structural gene and characterization of nei and nei nth mutants. Jiang D, et al. **J Bacteriol** 1997 Jun;179(11):3773–82

Characterization of the p–toluenesulfonate operon tsaMBCD and tsaR in Comamonas testosteroni T–2. Junker F, et al. **J Bacteriol** 1997 Feb;179(3):919–27

A role for cpeYZ in cyanobacterial phycoerythrin biosynthesis. Kahn K, et al. **J Bacteriol** 1997 Feb; 179(4):998–1006

Isolation and characterization of a hemin–regulated gene, hemR, from Porphyromonas gingivalis. Karunakaran T, et al. **J Bacteriol** 1997 Mar;179(6):1898–908

Cloning, characterization, and sequence analysis of the clcE gene encoding the maleylacetate reductase of Pseudomonas sp. strain B13. Kasberg T, et al. **J Bacteriol** 1997 Jun; 179(11):3801–3

Isolation and characterization of multiple adenylate cyclase genes from the cyanobacterium Anabaena sp. strain PCC 7120. Katayama M, et al. **J Bacteriol** 1997 Jun; 179(11):3588–93

Characterization of the L–malate permease gene (maeP) of Streptococcus bovis ATCC 15352. Kawai S, et al. **J Bacteriol** 1997 Jun;179(12):4056–60

Evidence for a multimeric subtilin synthetase complex. Kiesau P, et al. **J Bacteriol** 1997 Mar;179(5):1475–81

Translational autoregulation of the sgm gene from Micromonospora zionensis. Kojic M, et al. **J Bacteriol** 1996 Sep;178(18):5493–8

Hook–length control of the export–switching machinery involves a double–locked gate in Salmonella typhimurium flagellar morphogenesis. Kutsukake K. **J Bacteriol** 1997 Feb;179(4):1268–73

Characterization of the genes and proteins of a two–component system from the hyperthermophilic bacterium Thermotoga maritima. Lee PJ, et al. **J Bacteriol** 1996 Oct;178(19):5579–85

Properties and gene structure of the Thermotoga maritima alpha–amylase AmyA, a putative lipoprotein of a hyperthermophilic bacterium. Liebl W, et al. **J Bacteriol** 1997 Feb;179(3):941–8

Genetic control of the resistance to phage C1 of Escherichia coli K–12. Likhacheva NA, et al. **J Bacteriol** 1996 Sep; 178(17):5309–15

L–allo–threonine aldolase from Aeromonas jandaei DK–39: gene cloning, nucleotide sequencing, and identification of the pyridoxal 5'–phosphate–binding lysine residue by site–directed mutagenesis. Liu JQ, et al. **J Bacteriol** 1997 Jun;179(11):3555–60

Isolation and analysis of the Xanthomonas alkyl hydroperoxide reductase gene and the peroxide sensor regulator genes ahpC and ahpF–oxyR–orfX. Loprasert S, et al. **J Bacteriol** 1997 Jun;179(12):3944–9

A rubrerythrin operon and nigerythrin gene in Desulfovibrio vulgaris (Hildenborough). Lumppio HL, et al. **J Bacteriol** 1997 Jul;179(14):4607–15

Phenotypic switching of variable surface lipoproteins in Mycoplasma bovis involves high–frequency chromosomal rearrangements. Lysnyansky I, et al. **J Bacteriol** 1996 Sep; 178(18):5395–401

Identification and characterization of additional flagellin genes from Vibrio anguillarum. McGee K, et al. **J Bacteriol** 1996 Sep;178(17):5188–98

L–cysteine biosynthesis in Bacillus subtilis: identification, sequencing, and functional characterization of the gene coding for phosphoadenylylsulfate sulfotransferase. Mansilla MC, et al. **J Bacteriol** 1997 Feb;179(3):976–81

Characterization of the recA gene regions of Spiroplasma citri and Spiroplasma melliferum. Marais A, et al. **J Bacteriol** 1996 Dec;178(23):7003–9

Molecular and evolutionary analyses of a variable series of genes in Borrelia burgdorferi that are related to ospE and ospF, constitute a gene family, and share a common upstream homology box. Marconi RT, et al. **J Bacteriol** 1996 Oct;178(19):5615–26

Requirement for genes with homology to ABC transport systems for attachment and virulence of Agrobacterium tumefaciens. Matthysse AG, et al. **J Bacteriol** 1996 Sep; 178(17):5302–8

Cloning and characterization of cspL and cspP, two cold–inducible genes from Lactobacillus plantarum. Mayo B, et al. **J Bacteriol** 1997 May;179(9):3039–42

Identification of the mpl gene encoding UDP–N–acetylmuramate: L–alanyl–gamma–D–glutamyl–meso–diaminopimelate ligase in Escherichia coli and its role in recycling of cell wall peptidoglycan. Mengin–Lecreulx D, et al. **J Bacteriol** 1996 Sep;178(18):5347–52

Molecular, genetic, and biochemical characterization of the serC gene of Methanosarcina barkeri Fusaro. Metcalf WW, et al. **J Bacteriol** 1996 Oct;178(19):5797–802

Characterization of Azorhizobium caulinodans glnB and glnA genes: involvement of the P(II) protein in symbiotic nitrogen fixation. Michel–Reydellet N, et al. **J Bacteriol** 1997 Jun;179(11):3580–7

Identification and characterization of the dTDP–rhamnose biosynthesis and transfer genes of the lipopolysaccharide–related rfb locus in Leptospira interrogans serovar Copenhageni. Mitchison M, et al. **J Bacteriol** 1997 Feb;179(4):1262–7

Characterization of transcription organization and analysis of unique expression patterns of an alkyl hydroperoxide reductase C gene (ahpC) and the peroxide regulator operon ahpF–oxyR–orfX from Xanthomonas campestris pv. phaseoli. Mongkolsuk S, et al. **J Bacteriol** 1997 Jun; 179(12):3950–5

Amino acid transport in taxonomically diverse cyanobacteria and identification of two genes encoding elements of a neutral amino acid permease putatively involved in recapture of leaked hydrophobic amino acids. Montesinos ML, et al. **J Bacteriol** 1997 Feb;179(3):853–62

A gene (sleB) encoding a spore cortex–lytic enzyme from Bacillus subtilis and response of the enzyme to L–alanine–mediated germination. Moriyama R, et al. **J Bacteriol** 1996 Oct;178(20):6059–63

Identification and characterization of hydrogen peroxide–sensitive mutants of Escherichia coli: genes that require OxyR for expression. Mukhopadhyay S, et al. **J Bacteriol** 1997 Jan;179(2):330–8

Identification and characterization of pbpC, the gene encoding Bacillus subtilis penicillin–binding protein 3. Murray T, et al. **J Bacteriol** 1996 Oct;178(20):6001–5

Cloning and sequence of cymA, a gene encoding a tetraheme cytochrome c required for reduction of iron(III), fumarate, and nitrate by Shewanella putrefaciens MR–1. Myers CR, et al. **J Bacteriol** 1997 Feb;179(4):1143–52

The Bradyrhizobium japonicum rpoH1 gene encoding a sigma 32–like protein is part of a unique heat shock gene cluster together with groESL1 and three small heat shock genes. Narberhaus F, et al. **J Bacteriol** 1996 Sep; 178(18):5337–46

Virulence and arsenic resistance in Yersiniae. Neyt C, et al. **J Bacteriol** 1997 Feb;179(3):612–9

Molecular analysis of the gat genes from Escherichia coli and of their roles in galactitol transport and metabolism. Nobelmann B, et al. **J Bacteriol** 1996 Dec;178(23):6790–5

bmr3, a third multidrug transporter gene of Bacillus subtilis. Ohki R, et al. **J Bacteriol** 1997 Feb;179(4):1423–7

Characterization of the fimA gene encoding bundle–forming fimbriae of the plant pathogen Xanthomonas campestris pv. vesicatoria. Ojanen–Reuhs T, et al. **J Bacteriol** 1997

Feb;179(4):1280–90

A melibiose transporter and an operon containing its gene in Enterobacter cloacae. Okazaki N, et al. **J Bacteriol** 1997 Jul;179(13):4443–5

Cloning and characterization of the Streptomyces peucetius dnmZUV genes encoding three enzymes required for biosynthesis of the daunorubicin precursor thymidine diphospho–L–daunosamine. Otten SL, et al. **J Bacteriol** 1997 Jul;179(13):4446–50

The bla gene of the cephamycin cluster of Streptomyces clavuligerus encodes a class A beta-lactamase of low enzymatic activity. Pérez–Llarena F, et al. **J Bacteriol** 1997 Oct;179(19):6035–40

Identification of the galE gene and a galE homolog and characterization of their roles in the biosynthesis of lipopolysaccharide in a serotype O:8 strain of Yersinia enterocolitica. Pierson DE, et al. **J Bacteriol** 1996 Oct; 178(20):5916–24

The Escherichia coli flagellar transcriptional activator flhD regulates cell division through induction of the acid response gene cadA. Prüss BM, et al. **J Bacteriol** 1997 Jun; 179(11):3818–21

Sequences and expression of pyruvate dehydrogenase genes from Pseudomonas aeruginosa. Rae JL, et al. **J Bacteriol** 1997 Jun;179(11):3561–71

Molecular cloning, sequencing, and expression of lytM, a unique autolytic gene of Staphylococcus aureus. Ramadurai L, et al. **J Bacteriol** 1997 Jun;179(11):3625–31

BfpB, an outer membrane lipoprotein required for the biogenesis of bundle–forming pili in enteropathogenic Escherichia coli. Ramer SW, et al. **J Bacteriol** 1996 Nov; 178(22):6555–63

Duplication of pilus gene complexes of Haemophilus influenzae biogroup aegyptius. Read TD, et al. **J Bacteriol** 1996 Nov;178(22):6564–70

Methanogenesis: genes, genomes, and who's on first? Reeve JN, et al. **J Bacteriol** 1997 Oct;179(19):5975–86 (134 ref.)

Characterization of four outer membrane proteins that play a role in utilization of starch by Bacteroides thetaiotaomicron. Reeves AR, et al. **J Bacteriol** 1997 Feb; 179(3):643–9

A new Azotobacter vinelandii mannuronan C–5–epimerase gene (algG) is part of an alg gene cluster physically organized in a manner similar to that in Pseudomonas aeruginosa. Rehm BH, et al. **J Bacteriol** 1996 Oct; 178(20):5884–9

Isolation of mutants of Acinetobacter calcoaceticus deficient in wax ester synthesis and complementation of one mutation with a gene encoding a fatty acyl coenzyme A reductase. Reiser S, et al. **J Bacteriol** 1997 May;179(9):2969–75

The cyclic AMP receptor protein is the main activator of pectinolysis genes in Erwinia chrysanthemi. Reverchon S, et al. **J Bacteriol** 1997 Jun;179(11):3500–8

The uvrB gene of Pseudomonas aeruginosa is not DNA damage inducible. Rivera E, et al. **J Bacteriol** 1996 Sep; 178(18):5550–4

The tgl gene: social motility and stimulation in Myxococcus xanthus. Rodriguez–Soto JP, et al. **J Bacteriol** 1997 Jul; 179(13):4361–71

2–oxo–1,2–dihydroquinoline 8–monooxygenase: phylogenetic relationship to other multicomponent nonheme iron oxygenases. Rosche B, et al. **J Bacteriol** 1997 Jun;179(11):3549–54

Characterization of endonuclease III (nth) and endonuclease VIII (nei) mutants of Escherichia coli K–12. Saito Y, et al. **J Bacteriol** 1997 Jun;179(11):3783–5

Acetylpolyamine amidohydrolase from Mycoplana ramosa: gene cloning and characterization of the metal–substituted enzyme. Sakurada K, et al. **J Bacteriol** 1996 Oct; 178(19):5781–6

Molecular characterization and transcriptional analysis of type 8 capsule genes in Staphylococcus aureus. Sau S, et al. **J Bacteriol** 1997 Mar;179(5):1614–21

Identification and characterization of the ccdA gene, required for cytochrome c synthesis in Bacillus subtilis. Schiött T, et al. **J Bacteriol** 1997 Mar;179(6):1962–73

Utilization of host iron sources by Corynebacterium diphtheriae: identification of a gene whose product is homologous to eukaryotic heme oxygenases and is required for acquisition of iron from heme and hemoglobin. Schmitt MP. **J Bacteriol** 1997 Feb;179(3):838–45

Enhanced antibiotic production by manipulation of the Streptomyces peucetius dnrH and dnmT genes involved in doxorubicin (adriamycin) biosynthesis. Scotti C, et al. **J Bacteriol** 1996 Dec;178(24):7316–21

Cloning, sequencing, and overexpression of the genes encoding coenzyme B12–dependent glycerol dehydratase of Citrobacter freundii. Seyfried M, et al. **J Bacteriol** 1996 Oct;178(19):5793–6

Stigmatella aurantiaca fruiting body formation is dependent on the fbfA gene encoding a polypeptide homologous to chitin synthases. Silakowski B, et al. **J Bacteriol** 1996 Dec; 178(23):6706–13

Transcriptional organization and regulation of expression of region 1 of the Escherichia coli K5 capsule gene cluster. Simpson DA, et al. **J Bacteriol** 1996 Nov;178(22):6466–74

Identification and characterization of a gene encoding a vertebrate–type carbonic anhydrase in cyanobacteria. Soltes–Rak E, et al. **J Bacteriol** 1997 Feb;179(3):769–74

Size of cotA and identification of the gene product in Synechocystis sp. strain PCC6803. Sonoda M, et al. **J Bacteriol** 1997 Jun;179(12):3845–50

Neisseria meningitidis tonB, exbB, and exbD genes: Ton–dependent utilization of protein–bound iron in Neisseriae. Stojiljkovic I, et al. **J Bacteriol** 1997 Feb; 179(3):805–12

Identification and characterization of the nifV–nifZ–nifT gene region from the filamentous cyanobacterium Anabaena sp. strain PCC 7120. Stricker O, et al. **J Bacteriol** 1997 May;179(9):2930–7

epr, which encodes glycylglycine endopeptidase resistance, is homologous to femAB and affects serine content of peptidoglycan cross bridges in Staphylococcus capitis and Staphylococcus aureus. Sugai M, et al. **J Bacteriol** 1997 Jul;179(13):4311–8

Physical and genetic chromosomal map of an M type 1 strain of Streptococcus pyogenes. Suvorov AN, et al. **J Bacteriol** 1996 Sep;178(18):5546–9

Characterization of a gene cluster for glycogen biosynthesis and a heterotetrameric ADP–glucose pyrophosphorylase from Bacillus stearothermophilus. Takata H, et al. **J Bacteriol** 1997 Aug;179(15):4689–98

Molecular cloning and characterization of nlpH, encoding a novel, surface–exposed, polymorphic, plasmid–encoded 33–kilodalton lipoprotein of Borrelia afzelii. Theisen M. **J Bacteriol** 1996 Nov;178(22):6435–42

Localized frameshift mutation generates selective, high–frequency phase variation of a surface lipoprotein encoded by a mycoplasma ABC transporter operon. Theiss P, et al. **J Bacteriol** 1997 Jun;179(12):4013–22

Growth phase–dependent transcription of the Streptomyces ramocissimus tuf1 gene occurs from two promoters. Tieleman LN, et al. **J Bacteriol** 1997 Jun;179(11):3619–24

An extreme clockwise switch bias mutation in fliG of Salmonella typhimurium and its suppression by slow–motile mutations in motA and motB. Togashi F, et al. **J Bacteriol** 1997 May;179(9):2994–3003

Barriers to heterologous expression of a selenoprotein gene in bacteria. Tormay P, et al. **J Bacteriol** 1997 Feb; 179(3):576–82

The kdp system of Clostridium acetobutylicum: cloning, sequencing, and transcriptional regulation in response to potassium concentration. Treuner–Lange A, et al. **J Bacteriol** 1997 Jul;179(14):4501–12

cobB function is required for catabolism of propionate in Salmonella typhimurium LT2: evidence for existence of a substitute function for CobB within the 1,2–propanediol utilization (pdu) operon. Tsang AW, et al. **J Bacteriol** 1996 Dec;178(23):7016–9

Identification of a fourth gene involved in dTDP–rhamnose synthesis in Streptococcus mutans. Tsukioka Y, et al. **J Bacteriol** 1997 Jul;179(13):4411–4

Biological function of the dTDP–rhamnose synthesis pathway in Streptococcus mutans. Tsukioka Y, et al. **J Bacteriol** 1997 Feb;179(4):1126–34

Functional complementation of an Escherichia coli gap mutant supports an amphibolic role for NAD(P)–dependent glyceraldehyde–3–phosphate dehydrogenase of Synechocystis sp. strain PCC 6803. Valverde F, et al. **J Bacteriol** 1997 Jul;179(14):4513–22

Structure and expression of a pyrimidine gene cluster from the extreme thermophile Thermus strain ZO5. Van de Casteele M, et al. **J Bacteriol** 1997 Jun;179(11):3470–81

Identification of sulfate starvation–regulated genes in Escherichia coli: a gene cluster involved in the utilization of taurine as a sulfur source. van der Ploeg JR, et al. **J Bacteriol** 1996 Sep;178(18):5438–46

Cloning and characterization of the gene (farA) encoding the receptor for an extracellular regulatory factor (IM–2) from Streptomyces sp. strain FR1–5. Waki M, et al. **J Bacteriol** 1997 Aug;179(16):5131–7

Cloning and characterization of the gene encoding 1–cyclohexenylcarbonyl coenzyme A reductase from Streptomyces collinus. Wang P, et al. **J Bacteriol** 1996 Dec; 178(23):6873–81

Characterization of thiI, a new gene involved in thiazole biosynthesis in Salmonella typhimurium. Webb E, et al. **J Bacteriol** 1997 Jul;179(13):4399–402

Cloning and characterization of two immunophilin–like genes, ilpA and fkpA, on a single 3.9–kilobase fragment of Aeromonas hydrophila genomic DNA. Wong CY, et al. **J Bacteriol** 1997 Jun;179(11):3397–403

A mycobacterial extracytoplasmic function sigma factor involved in survival following stress. Wu QL, et al. **J Bacteriol** 1997 May;179(9):2922–9

Cloning, sequencing, and analysis of a gene cluster from Chelatobacter heintzii ATCC 29600 encoding nitrilotriacetate monooxygenase and NADH:flavin mononucleotide oxidoreductase. Xu Y, et al. **J Bacteriol** 1997 Feb;179(4):1112–6

The rnhB gene encoding RNase HII of Streptococcus pneumoniae and evidence of conserved motifs in eucaryotic genes. Zhang YB, et al. **J Bacteriol** 1997 Jun; 179(12):3828–36

Open reading frame 3 of the barotolerant bacterium strain DSS12 is complementary with cydD in Escherichia coli: cydD functions are required for cell stability at high pressure. Kato C, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):301–5

Cloning and sequencing of the gene encoding a novel lysine–specific cysteine proteinase (Lys–gingipain) in Porphyromonas gingivalis: structural relationship with the arginine–specific cysteine proteinase (Arg–gingipain). Okamoto K, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):398–406

Nucleotide sequence of the uricase gene from Bacillus sp. TB–90. Yamamoto K, et al. **J Biochem (Tokyo)** 1996 Jan; 119(1):80–4

Experimental determination of control by the H(+)–ATPase in Escherichia coli. Jensen PR, et al. **J Bioenerg Biomembr** 1995 Dec;27(6):543–54 (35 ref.)

Cloning, expression, and sequence analysis of the three genes encoding quinoline 2–oxidoreductase, a molybdenum–containing hydroxylase from Pseudomonas putida 86. Bläse M, et al. **J Biol Chem** 1996 Sep 20; 271(38):23068–79

Cloning and sequencing of two enterococcal glpK genes and regulation of the encoded glycerol kinases by phosphoenolpyruvate–dependent, phosphotransferase system–catalyzed phosphorylation of a single histidyl residue. Charrier V, et al. **J Biol Chem** 1997 May 30; 272(22):14166–74

Function of the Escherichia coli msbB gene, a multicopy suppressor of htrB knockouts, in the acylation of lipid A. Acylation by MsbB follows laurate incorporation by HtrB. Clementz T, et al. **J Biol Chem** 1997 Apr 18; 272(16):10353–60

Identification of the gene encoding the Escherichia coli lipid A 4'–kinase. Facile phosphorylation of endotoxin analogs with recombinant LpxK. Garrett TA, et al. **J Biol Chem** 1997 Aug 29;272(35):21855–64

Characterization of TreR, the major regulator of the Escherichia coli trehalose system. Horlacher R, et al. **J Biol Chem** 1997 May 16;272(20):13026–32

The B form of dihydroorotate dehydrogenase from Lactococcus lactis consists of two different subunits, encoded by the pyrDb and pyrK genes, and contains FMN, FAD, and [FeS] redox centers. Nielsen FS, et al. **J Biol Chem** 1996 Nov 15;271(46):29359–65

Pleiotropic effects of puf interposon mutagenesis on carotenoid biosynthesis in Rubrivivax gelatinosus. A new gene organization in purple bacteria. Ouchane S, et al. **J Biol Chem** 1997 Jan 17;272(3):1670–6

An NADPH:FAD oxidoreductase from the valanimycin producer, Streptomyces viridifaciens. Cloning, analysis, and overexpression. Parry RJ, et al. **J Biol Chem** 1997 Sep 12;272(37):23303–11

Cloning, overexpression, and characterization of glutaredoxin 2, an atypical glutaredoxin from Escherichia coli. Vlamis–Gardikas A, et al. **J Biol Chem** 1997 Apr 25; 272(17):11236–43

Crystal structures of CheY mutants Y106W and T87I/Y106W. CheY activation correlates with movement of residue 106. Zhu X, et al. **J Biol Chem** 1997 Feb 21; 272(8):5000–6

Transferable resistance to specific antibiotics in nosocomial strains of Pseudomonas aeruginosa from two teaching hospitals. Blahová J, et al. **J Chemother** 1996 Dec; 8(6):420–4

Identification and location of the SHV–1 gene in Klebsiella pneumoniae strains. Chaves J, et al. **J Chemother** 1995 Nov; 7 Suppl 4:49–51

Mobilization of antibiotic resistance for transfer in Pseudomonas aeruginosa. Lešická–Hupková M, et al. **J Chemother** 1996 Aug;8(4):261–5

Perspectives series: host/pathogen interactions. Invasion and intracellular sorting of bacteria: searching for bacterial genes expressed during host/pathogen interactions. Falkow S. **J Clin Invest** 1997 Jul 15;100(2):239–43 (30 ref.)

Rapid detection of Salmonella enterica with primers specific for iroB. Bäumler AJ, et al. **J Clin Microbiol** 1997 May; 35(5):1224–30

Survey of emm gene sequences and T–antigen types from systemic Streptococcus pyogenes infection isolates collected in San Francisco, California; Atlanta, Georgia; and Connecticut in 1994 and 1995. Beall B, et al. **J Clin Microbiol** 1997 May;35(5):1231–5

Rapid and specific detection of F17–related pilin and adhesin genes in diarrheic and septicemic Escherichia coli strains by multiplex PCR. Bertin Y, et al. **J Clin Microbiol** 1996 Dec;34(12):2921–8

Differentiation of bacterial 16S rRNA genes and intergenic regions and Mycobacterium tuberculosis katG genes by structure–specific endonuclease cleavage. Brow MA, et al. **J Clin Microbiol** 1996 Dec;34(12):3129–37

Rapid identification of Salmonella serovars in feces by specific detection of virulence genes, invA and spvC, by an enrichment broth culture–multiplex PCR combination assay. Chiu CH, et al. **J Clin Microbiol** 1996 Oct; 34(10):2619–22

Evaluation of 16S rRNA gene PCR with primers Hp1 and Hp2 for detection of Helicobacter pylori. Chong SK, et al. **J Clin Microbiol** 1996 Nov;34(11):2728–30

Rapid screening of point mutations of the Neisseria gonorrhoeae parC gene associated with resistance to quinolones. Deguchi T, et al. **J Clin Microbiol** 1997 Apr; 35(4):948–50

Rapid detection of point mutations of the Neisseria gonorrhoeae gyrA gene associated with decreased susceptibilities to quinolones. Deguchi T, et al. **J Clin Microbiol** 1996 Sep;34(9):2255–8

Diagnosis of extrapulmonary tuberculosis by Gen–Probe amplified Mycobacterium tuberculosis direct test. Ehlers S, et al. **J Clin Microbiol** 1996 Sep;34(9):2275–9

Molecular characterization of the gene encoding H antigen in Escherichia coli and development of a PCR–restriction

fragment length polymorphism test for identification of E. coli O157:H7 and O157:NM. Fields PI, et al. **J Clin Microbiol** 1997 May;35(5):1066–70

Use of the flagellar H7 gene as a target in multiplex PCR assays and improved specificity in identification of enterohemorrhagic Escherichia coli strains. Gannon VP, et al. **J Clin Microbiol** 1997 Mar;35(3):656–62

Specific identification of the enteropathogens Campylobacter jejuni and Campylobacter coli by using a PCR test based on the ceuE gene encoding a putative virulence determinant. Gonzalez I, et al. **J Clin Microbiol** 1997 Mar; 35(3):759–63

Genetic analysis of a meningococcal population based on polymorphism of the pilA–pilB locus: a molecular approach for meningococcal epidemiology. Guibourdenche M, et al. **J Clin Microbiol** 1997 Mar;35(3):745–50

Differentiation of Chlamydia spp. by sequence determination and restriction endonuclease cleavage of RNase P RNA genes. Herrmann B, et al. **J Clin Microbiol** 1996 Aug; 34(8):1897–902

Amplification and restriction endonuclease digestion of a large fragment of genes coding for rRNA as a rapid method for discrimination of closely related pathogenic bacteria [see comments] Ibrahim A, et al. **J Clin Microbiol** 1996 Dec;34(12):2894–6. Comment in: J Clin Microbiol 1997 Jun;35(6):1646–7.

Isolation of methicillin–resistant coagulase–negative staphylococci from chickens. Kawano J, et al. **J Clin Microbiol** 1996 Sep;34(9):2072–7

Study of internal transcribed spacer and mitochondrial large–subunit genes of Pneumocystis carinii hominis isolated by repeated bronchoalveolar lavage from human immunodeficiency virus–infected patients during one or several episodes of pneumonia. Latouche S, et al. **J Clin Microbiol** 1997 Jul;35(7):1687–90

An enzyme–linked immunosorbent assay to detect PCR products of the rfbS gene from serogroup D salmonellae: a rapid screening prototype. Luk JM, et al. **J Clin Microbiol** 1997 Mar;35(3):714–8

Temporal shifts in traits of Vibrio cholerae strains isolated from hospitalized patients in Calcutta: a 3–year (1993 to 1995) analysis. Mukhopadhyay AK, et al. **J Clin Microbiol** 1996 Oct;34(10):2537–43

Use of an alkaline phosphatase–conjugated oligonucleotide probe for the gene encoding the bundle–forming pilus of enteropathogenic Escherichia coli. Nagayama K, et al. **J Clin Microbiol** 1996 Nov;34(11):2819–21

Heterogeneity of diphtheria toxin gene, tox, and its regulatory element, dtxR, in Corynebacterium diphtheriae strains causing epidemic diphtheria in Russia and Ukraine. Nakao H, et al. **J Clin Microbiol** 1996 Jul;34(7):1711–6

Development of a direct PCR assay for detection of the diphtheria toxin gene. Nakao H, et al. **J Clin Microbiol** 1997 Jul;35(7):1651–5

Two different 16S rRNA genes in a mycobacterial strain. Ninet B, et al. **J Clin Microbiol** 1996 Oct;34(10):2531–6

Analysis of the thermostable direct hemolysin (tdh) gene and the tdh–related hemolysin (trh) genes in urease–positive strains of Vibrio parahaemolyticus isolated on the West Coast of the United States. Okuda J, et al. **J Clin Microbiol** 1997 Aug;35(8):1965–71

Multiplex PCR detection of vanA, vanB, vanC–1, and vanC–2/3 genes in enterococci. Patel R, et al. **J Clin Microbiol** 1997 Mar;35(3):703–7

Instability of a Shiga toxin type 2 gene in Enterobacter cloacae [letter] Paton JC, et al. **J Clin Microbiol** 1997 Jul; 35(7):1917

Potential for gene transfer among enterococci from a single patient and the possibility of confounding typing results. Petts DN, et al. **J Clin Microbiol** 1997 Jul;35(7):1722–7

Differentiation of spotted fever group rickettsiae by sequencing and analysis of restriction fragment length polymorphism of PCR–amplified DNA of the gene encoding the protein rOmpA. Roux V, et al. **J Clin Microbiol** 1996 Sep;34(9):2058–65

Rapid differentiation of bovine and human tubercle bacilli based on a characteristic mutation in the bovine pyrazinamidase gene. Scorpio A, et al. **J Clin Microbiol** 1997 Jan;35(1):106–10

PCR detection of metallo–beta–lactamase gene (blaIMP) in gram–negative rods resistant to broad–spectrum beta–lactams. Senda K, et al. **J Clin Microbiol** 1996 Dec; 34(12):2909–13

Molecular typing of Helicobacter pylori isolates from a multicenter U.S. clinical trial by ureC restriction fragment length polymorphism. Shortridge VD, et al. **J Clin Microbiol** 1997 Feb;35(2):471–3

Diversity of the 32–kilodalton protein gene may form a basis for species determination of potentially pathogenic mycobacterial species. Soini H, et al. **J Clin Microbiol** 1997 Mar;35(3):769–73

Identification and subspecific differentiation of Mycobacterium scrofulaceum by automated sequencing of a region of the gene (hsp65) encoding a 65–kilodalton heat shock protein. Swanson DS, et al. **J Clin Microbiol** 1996 Dec;34(12):3151–9

Detection by PCR of the nim genes encoding 5–nitroimidazole resistance in Bacteroides spp. Trinh S, et al. **J Clin Microbiol** 1996 Sep;34(9):2078–84

Combinational detection of autolysin and penicillin–binding protein 2B genes of Streptococcus pneumoniae by PCR. Ubukata K, et al. **J Clin Microbiol** 1996 Mar;34(3):592–6

Actinobacillus suis strains isolated from healthy and diseased swine are clonal and carry apxICABDvar. suis and apxIICAvar. suis toxin genes. Van Ostaaijen J, et al. **J Clin Microbiol** 1997 May;35(5):1131–7

Analysis of genetic polymorphism in the phospholipase region of Mycobacterium tuberculosis. Vera–Cabrera L, et al. **J Clin Microbiol** 1997 May;35(5):1190–5

Characterization of cytotoxic, hemolytic Aeromonas caviae clinical isolates and their identification by determining presence of a unique hemolysin gene. Wang G, et al. **J Clin Microbiol** 1996 Dec;34(12):3203–5

Molecular characterization of Salmonella enterica subsp. enterica serovar choleraesuis field isolates and differentiation from homologous live vaccine strains suisaloral and SC–54. Weide–Botjes M, et al. **J Clin Microbiol** 1996 Oct;34(10):2460–3

The mtp40 gene is not present in all strains of Mycobacterium tuberculosis. Weil A, et al. **J Clin Microbiol** 1996 Sep; 34(9):2309–11

Shiga toxin–producing Escherichia coli strains from bovines: association of adhesion with carriage of eae and other genes. Wieler LH, et al. **J Clin Microbiol** 1996 Dec; 34(12):2980–4

Detection and sequences of the enteroaggregative Escherichia coli heat–stable enterotoxin 1 gene in enterotoxigenic E. coli strains isolated from piglets and calves with diarrhea. Yamamoto T, et al. **J Clin Microbiol** 1997 Jan;35(1):223–7

Conservation of the lipooligosaccharide synthesis locus lgt among strains of Neisseria gonorrhoeae: requirement for lgtE in synthesis of the 2C7 epitope and of the beta chain of strain 15253. Erwin AL, et al. **J Exp Med** 1996 Oct 1;184(4):1233–41

Strain differentiation and phylogenic relationships, in terms of base sequence of the ure B gene, of Helicobacter pylori. Akashi H, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:16–23

Discovery of disseminated J96–like strains of uropathogenic Escherichia coli O4:H5 containing genes for both PapG(J96) (class I) and PrsG(J96) (class III) Gal(alpha1–4)Gal–binding adhesins. Johnson JR, et al. **J Infect Dis** 1997 Apr;175(4):983–8

Alternative gene for biotin sulfoxide reduction in Escherichia coli K–12. del Campillo Campbell A, et al. **J Mol Evol** 1996 Feb;42(2):85–90

The close proximity of Escherichia coli genes: consequences for stop codon and synonymous codon use. Eyre–Walker A. **J Mol Evol** 1996 Feb;42(2):73–8

Nonplastid eukaryotic response regulators have a monophyletic origin and evolved from their bacterial precursors in parallel with their cognate sensor kinases. Pao GM, et al. **J Mol Evol** 1997 Jun;44(6):605–13

Unidentified open reading frames in the genome of Methanococcus jannaschii are similar in sequence to an archaebacterial gene for tRNA nucleotidyltransferase. Thurlow DL, et al. **J Mol Evol** 1997 Jun;44(6):686–9

Low synonymous site variation at the lacY locus in Escherichia coli suggests the action of positive selection. Wagner RR, et al. **J Mol Evol** 1996 Feb;42(2):79–84

Spectrum of spontaneous mutations in the cyclic AMP receptor protein gene on chromosomal DNA of Escherichia coli. Takimoto K, et al. **J Radiat Res (Tokyo)** 1997 Mar;38(1):27–36

Does Escherichia coli optimize the economics of the translation process? Solomovici J, et al. **J Theor Biol** 1997 Apr 21;185(4):511–21

Identification of a Shigella flexneri criR gene increasing ipa genes expression: a novel member of response regulators of the two–component signal transduction family. Qi MS, et al. **Jpn J Med Sci Biol** 1996 Oct–Dec;49(5–6):219–39

The lppC gene of Streptococcus equisimilis encodes a lipoprotein that is homologous to the e (P4) outer membrane protein from Haemophilus influenzae. Gase K, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):63–73

Structural dissection and functional analysis of the complex promoter of the streptokinase gene from Streptococcus equisimilis H46A. Gräfe S, et al. **Med Microbiol Immunol (Berl)** 1996 May;185(1):11–7

Different alleles of the fcrA/mrp gene of Streptococcus pyogenes encode M–related proteins exhibiting an identical immunoglobulin–binding pattern. Krebs B, et al. **Med Microbiol Immunol (Berl)** 1996 May;185(1):39–47

What is the size of the group A streptococcal vir regulon? The Mga regulator affects expression of secreted and surface virulence factors. Podbielski A, et al. **Med Microbiol Immunol (Berl)** 1996 Nov;185(3):171–81

Escherichia coli promoter sequences: analysis and prediction. Hertz GZ, et al. **Methods Enzymol** 1996;273:30–42 (37 ref.)

Genetics and molecular biology of beta–lactam–resistant pneumococci. Coffey TJ, et al. **Microb Drug Resist** 1995 Spring;1(1):29–34 (39 ref.)

Relatedness among penicillin–binding protein 2b genes of Streptococcus mitis, Streptococcus oralis, and Streptococcus pneumoniae. Potgieter E, et al. **Microb Drug Resist** 1995 Spring;1(1):35–42

Cloning and detection of the hemolysin gene of Vibrio anguillarum. Hirono I, et al. **Microb Pathog** 1996 Sep; 21(3):173–82

Characterization of F18 fimbrial genes fedE and fedF involved in adhesion and length of enterotoxemic Escherichia coli strain 107/86. Imberechts H, et al. **Microb Pathog** 1996 Sep;21(3):183–92

Cloning, sequencing and expression of the CAMP factor gene of Streptococcus uberis. Jiang M, et al. **Microb Pathog** 1996 May;20(5):297–307

Sequence variation in the Streptococcus pneumoniae pneumolysin gene affecting haemolytic activity and electrophoretic mobility of the toxin. Lock RA, et al. **Microb Pathog** 1996 Aug;21(2):71–83

Attaching and effacing of host cells by enteropathogenic Escherichia coli in the absence of detectable tyrosine kinase mediated signal transduction. Rabinowitz RP, et al. **Microb Pathog** 1996 Sep;21(3):157–71

Transfer of a pertussis toxin expression locus to isogenic bvg–positive and bvg–negative strains of Bordetella bronchiseptica using an in vivo technique. Smith AM, et al. **Microb Pathog** 1996 May;20(5):263–73

Lateral genetic transfers between group A and G streptococci for M–like genes are ongoing. Sriprakash KS, et al. **Microb Pathog** 1996 May;20(5):275–85

Cloning and sequencing of the Klebsiella K–36 astA gene, encoding an arylsulfate sulfotransferase. Baek MC, et al. **Microbiol Immunol** 1996;40(8):531–7

Domain–specific rearrangement between the two Arg–gingipain–encoding genes in Porphyromonas gingivalis: possible involvement of nonreciprocal recombination. Nakayama K. **Microbiol Immunol** 1997; 41(3):185–96

Characterization of a toxin–deficient Clostridium perfringens strain, KZ1340. Shimizu T, et al. **Microbiol Immunol** 1996; 40(2):141–5

Sequence and product analyses of the four genes downstream from the fimbrilin gene (fimA) of the oral anaerobe Porphyromonas gingivalis. Watanabe K, et al. **Microbiol Immunol** 1996;40(10):725–34

A novel gene, algK, from the alginate biosynthesis cluster of Pseudomonas aeruginosa. Aarons SJ, et al. **Microbiology** 1997 Feb;143 (Pt 2):641–52

Genomic rearrangements during evolution of the obligate intracellular parasite Rickettsia prowazekii as inferred from an analysis of 52015 bp nucleotide sequence. Andersson JO, et al. **Microbiology** 1997 Aug;143 (Pt 8):2783–95

Regulatory sequences of two flagellin genes in Bacillus thuringiensis subsp. alesti. Ankarloo J, et al. **Microbiology** 1996 Feb;142 (Pt 2):315–20

The soybean cultivar specificity gene nolX is present, expressed in a nodD–dependent manner, and of symbiotic significance in cultivar–nonspecific strains of Rhizobium (Sinorhizobium) fredii. Bellato C, et al. **Microbiology** 1997 Apr;143 (Pt 4):1381–8

Computerized genetic map of Bacillus subtilis. Biaudet V, et al. **Microbiology** 1996 Oct;142 (Pt 10):2669–729

Phylogenetic diversity of intra–amoebal legionellae as revealed by 16S rRNA gene sequence comparison. Birtles RJ, et al. **Microbiology** 1996 Dec;142 (Pt 12):3525–30

The 52 degrees–55 degrees segment of the Bacillus subtilis chromosome: a region devoted to purine uptake and metabolism, and containing the genes cotA, gabP and guaA and the pur gene cluster within a 34960 bp nucleotide sequence. Borriss R, et al. **Microbiology** 1996 Nov;142 (Pt 11):3027–31

Structure of the Clostridium stercorarium gene celY encoding the exo–1,4–beta–glucanase Avicelase II. Bronnenmeier K, et al. **Microbiology** 1997 Mar;143 (Pt 3):891–8

The Clostridium perfringens enterotoxin gene is on a transposable element in type A human food poisoning strains. Brynestad S, et al. **Microbiology** 1997 Jul;143 (Pt 7):2109–15

The ldhA gene encoding the fermentative lactate dehydrogenase of Escherichia coli. Bunch PK, et al. **Microbiology** 1997 Jan;143 (Pt 1):187–95

Enterocin B, a new bacteriocin from Enterococcus faecium T136 which can act synergistically with enterocin A. Casaus P, et al. **Microbiology** 1997 Jul;143 (Pt 7):2287–94

The sigA gene encoding the major sigma factor of RNA polymerase from the marine cyanobacterium Synechococcus sp. strain PCC 7002: cloning and characterization. Caslake LF, et al. **Microbiology** 1996 Feb; 142 (Pt 2):347–57

A new nos gene downstream from nosDFY is essential for dissimilatory reduction of nitrous oxide by Rhizobium (Sinorhizobium) meliloti. Chan YK, et al. **Microbiology** 1997 Aug;143 (Pt 8):2817–24

Characterization of the gene for an immunodominant 72 kDa lipoprotein of Mycoplasma mycoides subsp. mycoides small colony type. Cheng X, et al. **Microbiology** 1996 Dec;142 (Pt 12):3515–24

Isolation and characterization of the gene encoding single–stranded–DNA–binding protein (SSB) from four marine Shewanella strains that differ in their temperature and pressure optima for growth. Chilukuri LN, et al. **Microbiology** 1997 Apr;143 (Pt 4):1163–74

Molecular and mutational analysis of a DNA region separating two methylotrophy gene clusters in Methylobacterium extorquens AM1. Chistoserdova L, et al. **Microbiology** 1997 May;143 (Pt 5):1729–36

Molecular analysis and expression of the extracellular lipase of Aeromonas hydrophila MCC–2. Chuang YC, et al. **Microbiology** 1997 Mar;143 (Pt 3):803–12

Expression of a Butyrivibrio fibrisolvens E14 gene (cinB) encoding an enzyme with cinnamoyl ester hydrolase activity is negatively regulated by the product of an adjacent gene (cinR). Dalrymple BP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1203–10

Expression of the mau gene cluster of Paracoccus denitrificans is controlled by MauR and a second transcription regulator. Delorme C, et al. **Microbiology** 1997 Mar;143 (Pt 3):793–801

Integrated mapping and sequencing of a 115 kb DNA fragment from Bacillus subtilis: sequence analysis of a 21 kb segment containing the sigL locus. Fabret C, et al. **Microbiology** 1996 Nov;142 (Pt 11):3089–96

Gene arrangement and organization in a approximately 76 kb fragment encompassing the oriC region of the chromosome of Mycobacterium leprae. Fsihi H, et al. **Microbiology** 1996 Nov;142 (Pt 11):3147–61

Plasmid–encoded genes specifying aniline oxidation from Acinetobacter sp. strain YAA. Fujii T, et al. **Microbiology** 1997 Jan;143 (Pt 1):93–9

The dnrM gene in Streptomyces peucetius contains a naturally occurring frameshift mutation that is suppressed by another locus outside of the daunorubicin–production gene cluster. Gallo MA, et al. **Microbiology** 1996 Feb;142 (Pt 2):269–75

BofC encodes a putative forespore regulator of the Bacillus subtilis sigma K checkpoint. Gomez M, et al. **Microbiology** 1997 Jan;143 (Pt 1):157–70

The rRNA operons of Mycobacterium smegmatis and Mycobacterium tuberculosis: comparison of promoter elements and of neighbouring upstream genes. Gonzalez–y–Merchand JA, et al. **Microbiology** 1996 Mar; 142 (Pt 3):667–74

Alanyl–tRNA synthetase gene of the extreme acidophilic chemolithoautotrophic Thiobacillus ferrooxidans is highly homologous to alaS genes from all living kingdoms but cannot be transcribed from its promoter in Escherichia coli. Guiliani N, et al. **Microbiology** 1997 Jul;143 (Pt 7):2179–87

The MtrD protein of Neisseria gonorrhoeae is a member of the resistance/nodulation/division protein family constituting part of an efflux system. Hagman KE, et al. **Microbiology** 1997 Jul;143 (Pt 7):2117–25

2–phenylethylamine catabolism by Escherichia coli K–12: gene organization and expression. Hanlon SP, et al. **Microbiology** 1997 Feb;143 (Pt 2):513–8

The lipid A biosynthesis deficiency of the Escherichia coli antibiotic–supersensitive mutant LH530 is suppressed by a novel locus, ORF195. Hirvas L, et al. **Microbiology** 1997 Jan;143 (Pt 1):73–81

Molecular genetic analysis of the region containing the essential Pseudomonas aeruginosa asd gene encoding aspartate–beta–semialdehyde dehydrogenase. Hoang TT, et al. **Microbiology** 1997 Mar;143 (Pt 3):899–907

Overlapping promoters modulate Fnr– and ArcA–dependent anaerobic transcriptional activation of the focApfl operon in Escherichia coli. Kaiser M, et al. **Microbiology** 1997 Mar; 143 (Pt 3):775–83

Expression analysis of the ssgA gene product, associated with sporulation and cell division in Streptomyces griseus. Kawamoto S, et al. **Microbiology** 1997 Apr;143 (Pt 4):1077–86

Studies on the isopropylbenzene 2,3–dioxygenase and the 3–isopropylcatechol 2,3–dioxygenase genes encoded by the linear plasmid of Rhodococcus erythropolis BD2. Kesseler M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3241–51

Lactobacillus delbrueckii subsp. lactis DSM7290 pepG gene encodes a novel cysteine aminopeptidase. Klein JR, et al. **Microbiology** 1997 Feb;143 (Pt 2):527–37

Identification of genes in Rhizobium leguminosarum bv. trifolii whose products are homologues to a family of ATP–binding proteins. Król J, et al. **Microbiology** 1997 Apr;143 (Pt 4):1389–94

The plasmid–located haloalkane dehalogenase gene from Rhodococcus rhodochrous NCIMB 13064. Kulakova AN, et al. **Microbiology** 1997 Jan;143 (Pt 1):109–15

A 32 kb nucleotide sequence from the region of the lincomycin–resistance gene (22 degrees–25 degrees) of the Bacillus subtilis chromosome and identification of the site of the lin–2 mutation. Kumano M, et al. **Microbiology** 1997 Aug;143 (Pt 8):2775–82

Organization of ribosomal RNA genes from the footrot pathogen Dichelobacter nodosus. La Fontaine S, et al. **Microbiology** 1996 Apr;142 (Pt 4):889–99

Control of Neisseria gonorrhoeae pilin gene expression by environmental factors: involvement of the pilA/pilB regulatory genes. Larribe M, et al. **Microbiology** 1997 May; 143 (Pt 5):1757–64

Streptomyces akiyoshiensis differs from other gram–positive bacteria in the organization of a core biosynthetic pathway gene for aspartate family amino acids. Le Y, et al. **Microbiology** 1996 Apr;142 (Pt 4):791–8

A 10.3 kbp segment from nprB to argJ at the 102 degrees region of the Bacillus subtilis chromosome. Levine A, et al. **Microbiology** 1997 Jan;143 (Pt 1):175–7

Proline biosynthesis in Streptococcus thermophilus: characterization of the proBA operon and its products. Limauro D, et al. **Microbiology** 1996 Nov;142 (Pt 11):3275–82

Sequence and analysis of a 31 kb segment of the Bacillus subtilis chromosome in the area of the rrnH and rrnG operons. Liu H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2763–7

Characterization of genes for the biosynthesis of the compatible solute ectoine from Marinococcus halophilus and osmoregulated expression in Escherichia coli. Louis P, et al. **Microbiology** 1997 Apr;143 (Pt 4):1141–9

Characterization of the ftsH gene of Bacillus subtilis. Lysenko E, et al. **Microbiology** 1997 Mar;143 (Pt 3):971–8

A spectinomycin resistance determinant from the spectinomycin producer Streptomyces flavopersicus. Lyutzkanova D, et al. **Microbiology** 1997 Jul;143 (Pt 7):2135–43

Determination of the pathway for rhamnose biosynthesis in mycobacteria: cloning, sequencing and expression of the Mycobacterium tuberculosis gene encoding alpha–D–glucose–1–phosphate thymidylyltransferase. Ma Y, et al. **Microbiology** 1997 Mar;143 (Pt 3):937–45

A gene cloning system for 'Streptomyces toyocaensis'. Matsushima P, et al. **Microbiology** 1996 Feb;142 (Pt 2):261–7

An outer–membrane porin inducible by short–chain amides and urea in the methylotrophic bacterium Methylophilus methylotrophus. Mills J, et al. **Microbiology** 1997 Jul;143 (Pt 7):2373–9

A carboxy–terminal processing protease gene is located immediately upstream of the invasion–associated locus from Bartonella bacilliformis. Mitchell SJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1221–33

Systematic sequencing of the 283 kb 210 degrees–232 degrees region of the Bacillus subtilis genome containing the skin element and many sporulation genes. Mizuno M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3103–11

Identification by PCR of genes encoding multiple response regulators. Morel–Deville F, et al. **Microbiology** 1997 May; 143 (Pt 5):1513–20

bctA: a novel pBF4 gene necessary for conjugal transfer in Bacteroides spp. Morgan RM, et al. **Microbiology** 1997 Jul; 143 (Pt 7):2155–65

Characterization of Mycobacterium tuberculosis LexA: recognition of a Cheo (Bacillus–type SOS) box. Movahedzadeh F, et al. **Microbiology** 1997 Mar;143 (Pt 3):929–36

Global regulation in Erwinia species by Erwinia carotovora rsmA, a homologue of Escherichia coli csrA: repression of secondary metabolites, pathogenicity and hypersensitive reaction. Mukherjee A, et al. **Microbiology** 1996 Feb;142 (Pt 2):427–34

Analysis of the Bacillus subtilis genome: cloning and nucleotide sequence of a 62 kb region between 275 degrees (rrnB) and 284 degrees (pai). Oudega B, et al. **Microbiology** 1997 Aug;143 (Pt 8):2769–74

The Paracoccus denitrificans ccmA, B and C genes: cloning and sequencing, and analysis of the potential of their products to form a haem or apo– c–type cytochrome transporter. Page MD, et al. **Microbiology** 1997 Feb;143 (Pt 2):563–76

ScCypB is a novel second cytosolic cyclophilin from Streptomyces chrysomallus which is phylogenetically distant from ScCypA. Pahl A, et al. **Microbiology** 1997 Jan;143 (Pt 1):117–26

Physical mapping shows that the unstable oxytetracycline gene cluster of Streptomyces rimosus lies close to one end of the linear chromosome. Pandza K, et al. **Microbiology** 1997 May;143 (Pt 5):1493–501

A 23911 bp region of the Bacillus subtilis genome comprising genes located upstream and downstream of the lev operon. Parro V, et al. **Microbiology** 1997 Apr;143 (Pt 4):1321–6

Thioredoxin is essential for Rhodobacter sphaeroides growth by aerobic and anaerobic respiration. Pasternak C, et al. **Microbiology** 1997 Jan;143 (Pt 1):83–91

Squalene–hopene cyclase from Bradyrhizobium japonicum: cloning, expression, sequence analysis and comparison to other triterpenoid cyclases. Perzl M, et al. **Microbiology** 1997 Apr;143 (Pt 4):1235–42

Molecular characterization of the bet genes encoding glycine betaine synthesis in Sinorhizobium meliloti 102F34. Pocard JA, et al. **Microbiology** 1997 Apr;143 (Pt 4):1369–79

The pyruvate dehydrogenase complex of the chemolithoautotrophic bacterium Thiobacillus ferrooxidans has an unusual E2–E3 subunit fusion. Powles R, et al. **Microbiology** 1997 Jul;143 (Pt 7):2189–95

The signal peptidase II (lsp) gene of Bacillus subtilis. Prágai Z, et al. **Microbiology** 1997 Apr;143 (Pt 4):1327–33

Product formation and phosphoglucomutase activities in Lactococcus lactis: cloning and characterization of a novel phosphoglucomutase gene. Qian N, et al. **Microbiology** 1997 Mar;143 (Pt 3):855–65

Structural and functional organization of the Yersinia pestis bacteriocin pesticin gene cluster. Rakin A, et al. **Microbiology** 1996 Dec;142 (Pt 12):3415–24

The expression of the Acinetobacter calcoaceticus recA gene increases in response to DNA damage independently of RecA and of development of competence for natural transformation. Rauch PJ, et al. **Microbiology** 1996 Apr;142 (Pt 4):1025–32

The Azotobacter vinelandii gene algJ encodes an outer–membrane protein presumably involved in export of alginate. Rehm BH. **Microbiology** 1996 Apr;142 (Pt 4):873–80

Novel phosphotransferase genes revealed by bacterial genome sequencing: a gene cluster encoding a putative N–acetylgalactosamine metabolic pathway in Escherichia coli. Reizer J, et al. **Microbiology** 1996 Feb;142 (Pt 2):231–50

Molecular study and overexpression of the Clostridium cellulolyticum celF cellulase gene in Escherichia coli. Reverbel–Leroy C, et al. **Microbiology** 1996 Apr;142 (Pt 4):1013–23

A 28 kDa major immunogen of Chlamydia psittaci shares identity with Mip proteins of Legionella spp. and Chlamydia trachomatis–cloning and characterization of the C. psittaci mip–like gene. Rockey DD, et al. **Microbiology** 1996 Apr;142 (Pt 4):945–53

New genes in the 170 degrees region of the Bacillus subtilis genome encode DNA gyrase subunits, a thioredoxin, a xylanase and an amino acid transporter. Rose M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3097–101

The Bacillus subtilis L–arabinose (ara) operon: nucleotide sequence, genetic organization and expression. Sá–Nogueira I, et al. **Microbiology** 1997 Mar;143 (Pt 3):957–69

The Staphylococcus aureus allelic genetic loci for serotype 5 and 8 capsule expression contain the type–specific genes flanked by common genes. Sau S, et al. **Microbiology** 1997 Jul;143 (Pt 7):2395–405

Association of newly discovered IS elements with the dichloromethane utilization genes of methylotrophic bacteria. Schmid–Appert M, et al. **Microbiology** 1997 Aug; 143 (Pt 8):2557–67

Analysis of the EHEC hly operon and its location in the physical map of the large plasmid of enterohaemorrhagic Escherichia coli O157:h7. Schmidt H, et al. **Microbiology** 1996 Apr;142 (Pt 4):907–14

Structure and gene–polypeptide relationships of the region encoding glycerol diffusion facilitator (glpF) and glycerol kinase (glpK) of Pseudomonas aeruginosa. Schweizer HP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1287–97

The Bacillus subtilis genes for ribonucleotide reductase are similar to the genes for the second class I NrdE/NrdF enzymes of Enterobacteriaceae. Scotti C, et al. **Microbiology** 1996 Nov;142 (Pt 11):2995–3004

Identifying bacterial genes—a cautionary tale. Sharp PM, et al. **Microbiology** 1996 Apr;142 (Pt 4):717–8

RP4::Mu3A–mediated in vivo cloning and transfer of a chlorobiphenyl catabolic pathway. Springael D, et al. **Microbiology** 1996 Nov;142 (Pt 11):3283–93

Molecular analysis of mxbD and mxbM, a putative sensor–regulator pair required for oxidation of methanol in Methylobacterium extorquens AM1. Springer AL, et al. **Microbiology** 1997 May;143 (Pt 5):1737–44

Mapping of 61 genes on the refined physical map of the chromosome of Thermus thermophilus HB27 and comparison of genome organization with that of T. thermophilus HB8. Tabata K, et al. **Microbiology** 1996 Feb; 142 (Pt 2):401–10

Expression of the eicosapentaenoic acid synthesis gene cluster from Shewanella sp. in a transgenic marine cyanobacterium, Synechococcus sp. Takeyama H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2725–31

Analysis of a Rhizobium leguminosarum gene encoding a protein homologous to glutathione S–transferases. Tawfiq Alkafaf NK, et al. **Microbiology** 1997 Mar;143 (Pt 3):813–22

Sequence analysis of pqq genes required for biosynthesis of pyrroloquinoline quinone in Methylobacterium extorquens AM1 and the purification of a biosynthetic intermediate. Toyama H, et al. **Microbiology** 1997 Feb;143 (Pt 2):595–602

Tn5–induced lipopolysaccharide mutations in Bordetella pertussis that affect outer membrane function. Turcotte ML, et al. **Microbiology** 1997 Jul;143 (Pt 7):2381–94

Molecular characterization of the restriction endonuclease gene (scrFIR) associated with the ScrFI restriction/modification system from Lactococcus lactis subsp. cremoris UC503. Twomey DP, et al. **Microbiology** 1997 Jul;143 (Pt 7):2277–86

Characterization of a prolinase gene and its product and an adjacent ABC transporter gene from Lactobacillus helveticus. Varmanen P, et al. **Microbiology** 1996 Apr;142 (Pt 4):809–16

A novel fusidic acid resistance gene from Streptomyces lividans 66 encodes a highly specific esterase. von der Haar B, et al. **Microbiology** 1997 Mar;143 (Pt 3):867–74

Regulation of the TCA cycle and the general amino acid permease by overflow metabolism in Rhizobium leguminosarum. Walshaw DL, et al. **Microbiology** 1997 Jul; 143 (Pt 7):2209–21

XylUW, two genes at the start of the upper pathway operon of TOL plasmid pWW0, appear to play no essential part in determining its catabolic phenotype. Williams PA, et al. **Microbiology** 1997 Jan;143 (Pt 1):101–7

The homologous regulators ANR of Pseudomonas aeruginosa and FNR of Escherichia coli have overlapping but distinct specificities for anaerobically inducible promoters. Winteler HV, et al. **Microbiology** 1996 Mar;142 (Pt 3):685–93

The ampS–nprE (124 degrees–127 degrees) region of the Bacillus subtilis 168 chromosome: sequencing of a 27 kb segment and identification of several genes in the area. Winters P, et al. **Microbiology** 1996 Nov;142 (Pt 11):3033–7

The dnaB–pheA (256 degrees–240 degrees) region of the Bacillus subtilis chromosome containing genes responsible for stress responses, the utilization of plant cell walls and primary metabolism. Wipat A, et al. **Microbiology** 1996 Nov;142 (Pt 11):3067–78

The cydR gene product, required for regulation of cytochrome bd expression in the obligate aerobe Azotobacter vinelandii, is an Fnr–like protein. Wu G, et al. **Microbiology** 1997 Jul;143 (Pt 7):2197–207

Cloning and sequencing of a 40.6 kb segment in the 73 degrees–76 degrees region of the Bacillus subtilis chromosome containing genes for trehalose metabolism and

acetoin utilization. Yamamoto H, et al. **Microbiology** 1996 Nov;142 (Pt 11):3057–65

A 23.4 kb segment at the 69 degrees–70 degrees region of the Bacillus subtilis genome. Yamamoto H, et al. **Microbiology** 1997 Apr;143 (Pt 4):1317–20

The 25 degrees–36 degrees region of the Bacillus subtilis chromosome: determination of the sequence of a 146 kb segment and identification of 113 genes. Yamane K, et al. **Microbiology** 1996 Nov;142 (Pt 11):3047–56

High affinity iron acquisition in Rhizobium leguminosarum requires the cycHJKL operon and the feuPQ gene products, which belong to the family of two–component transcriptional regulators. Yeoman KH, et al. **Microbiology** 1997 Jan;143 (Pt 1):127–34

Phylogeny of cyanobacterial nifH genes: evolutionary implications and potential applications to natural assemblages. Zehr JP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1443–50

The gene cluster directing O–antigen biosynthesis in Yersinia enterocolitica serotype 0:8: identification of the genes for mannose and galactose biosynthesis and the gene for the O–antigen polymerase. Zhang L, et al. **Microbiology** 1996 Feb;142 (Pt 2):277–88

Escherichia coli RNase II: characterization of the promoters involved in the transcription of rnb. Zilhão R, et al. **Microbiology** 1996 Feb;142 (Pt 2):367–75

Alteration of Escherichia coli O157:H7 growth and molecular fingerprint by the neuroendocrine hormone noradrenaline. Lyte M, et al. **Microbios** 1997; 89(360–361):197–213

The origin of the antiseptic–resistance gene ebr in Staphylococcus aureus. Sasatsu M, et al. **Microbios** 1995; 84(340):161–9

Molecular discrimination between Campylobacter jejuni, Campylobacter coli, Campylobacter lari and Campylobacter upsaliensis by polymerase chain reaction based on a novel putative GTPase gene. van Doorn LJ, et al. **Mol Cell Probes** 1997 Jun;11(3):177–85

Tn5 tagging of the phenol–degrading gene on the chromosome of Pseudomonas putida. Han EM, et al. **Mol Cells** 1997 Feb 28;7(1):40–4

Cloning and analysis of the DNA polymerase–encoding gene from Thermus caldophilus GK24. Kwon ST, et al. **Mol Cells** 1997 Apr 30;7(2):264–71

Cloning and expression of a gene encoding Moraxella sp. CK–1 autolysin. Ohn TB, et al. **Mol Cells** 1997 Jun 30; 7(3):367–73

Regulation of toxic shock syndrome toxin–1 gene in Staphylococcus aureus. Woo JH, et al. **Mol Cells** 1997 Feb 28;7(1):28–33

Dissemination of the strA–strB streptomycin–resistance genes among commensal and pathogenic bacteria from humans, animals, and plants. Sundin GW, et al. **Mol Ecol** 1996 Feb; 5(1):133–43 (100 ref.)

The Listeria monocytogenes gene ctpA encodes a putative P–type ATPase involved in copper transport. Francis MS, et al. **Mol Gen Genet** 1997 Jan 27;253(4):484–91

Wound–inducible and organ–specific expression of ORF13 from Agrobacterium rhizogenes 8196 T–DNA in transgenic tobacco plants. Hansen G, et al. **Mol Gen Genet** 1997 Apr 16;254(3):337–43

Identification and genetic characterization of the Pseudomonas aeruginosa leuB gene encoding 3–isopropylmalate dehydrogenase. Hoang TT, et al. **Mol Gen Genet** 1997 Mar 26;254(2):166–70

The Brevibacterium albidum gene encoding the arginine tRNACCG complements the growth defect of an Escherichia coli strain carrying a thermosensitive mutation in the rnpA gene at the nonpermissive temperature. Kim MS, et al. **Mol Gen Genet** 1997 Apr 28;254(4):464–8

A general system for generating unlabelled gene replacements in bacterial chromosomes. Leenhouts K, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):217–24

Chromosomal deletions in Streptomyces griseus that remove the afsA locus. Lezhava A, et al. **Mol Gen Genet** 1997 Jan 27;253(4):478–83

Characterization and mutagenesis of the leucine biosynthetic genes of Azotobacter vinelandii: an analysis of the rarity of amino acid auxotrophs. Manna AC, et al. **Mol Gen Genet** 1997 Mar 26;254(2):207–17

Organisation of the bph gene cluster of transposon Tn4371, encoding enzymes for the degradation of biphenyl and 4–chlorobiphenyl compounds. Merlin C, et al. **Mol Gen Genet** 1997 Jan 27;253(4):499–506

The dnaKJ operon belongs to the sigma32–dependent class of heat shock genes in Bradyrhizobium japonicum. Minder AC, et al. **Mol Gen Genet** 1997 Mar 26;254(2):195–206

Gene transfer and manipulation in the thermophilic cyanobacterium Synechococcus elongatus. Mühlenhoff U, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):93–100

Cloning of heterologous genes specifying detrimental proteins on pUC–derived plasmids in Escherichia coli. Müller J, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):207–11

Bacillus subtilis ComK negatively regulates degR gene expression. Ogura M, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):157–65

Secretion of the lantibiotics epidermin and gallidermin: sequence analysis of the genes gdmT and gdmH, their influence on epidermin production and their regulation by EpiQ. Peschel A, et al. **Mol Gen Genet** 1997 Apr 16; 254(3):312–8

Molecular analysis of the Rhodobacter capsulatus B10 porin (porCa) gene; purification and biochemical characterisation of the porin protein. Trieschmann MD, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):253–8

Transcriptional regulation of the macrophage–induced gene (gspA) of Legionella pneumophila and phenotypic characterization of a null mutant. Abu Kwaik Y, et al. **Mol Microbiol** 1997 May;24(3):629–42

Fimbrial biogenesis genes of Pseudomonas aeruginosa: pilW and pilX increase the similarity of type 4 fimbriae to the GSP protein–secretion systems and pilY1 encodes a gonococcal PilC homologue. Aim RA, et al. **Mol Microbiol** 1996 Oct;22(1):161–73

Characterization of Mycobacterium smegmatis gene that confers resistance to phages L5 and D29 when overexpressed. Barsom EK, et al. **Mol Microbiol** 1996 Jul; 21(1):159–70

Cloning of the Serratia marcescens hasF gene encoding the Has ABC exporter outer membrane component: a TolC analogue. Binet R, et al. **Mol Microbiol** 1996 Oct; 22(2):265–73

In vitro transcription of Myxococcus xanthus genes with RNA polymerase containing sigmaA, the major sigma factor in growing cells. Biran D, et al. **Mol Microbiol** 1997 Aug;25(3):463–72

Unified nomenclature for broadly conserved hrp genes of phytopathogenic bacteria [letter] Bogdanove AJ, et al. **Mol Microbiol** 1996 May;20(3):681–3

The centromere–like parC locus of plasmid R1. Breüner A, et al. **Mol Microbiol** 1996 May;20(3):581–92

The com locus controls genetic transformation in Streptococcus pneumoniae. Cheng Q, et al. **Mol Microbiol** 1997 Feb;23(4):683–92

The putA gene of Agrobacterium tumefaciens is transcriptionally activated in response to proline by an Lrp–like protein and is not autoregulated. Cho K, et al. **Mol Microbiol** 1996 Dec;22(5):1025–33

Aerobic regulation of cytochrome d oxidase (cydAB) operon expression in Escherichia coli: roles of Fnr and ArcA in repression and activation. Cotter PA, et al. **Mol Microbiol** 1997 Aug;25(3):605–15

Direct repeat sequences in the cagA gene of Helicobacter pylori: a ghost of a chance encounter? [letter] Evans DL Jr, et al. **Mol Microbiol** 1997 Jan;23(2):409–10

afsR is a pleiotropic but conditionally required regulatory gene for antibiotic production in Streptomyces coelicolor A3(2). Floriano B, et al. **Mol Microbiol** 1996 Jul; 21(2):385–96

The afimbrial adhesive sheath encoded by the afa–3 gene cluster of pathogenic Escherichia coli is composed of two adhesins. Garcia MI, et al. **Mol Microbiol** 1996 Feb; 19(4):683–93

Growth–phase–dependent expression of the osmotically inducible gene osmC of Escherichia coli K–12. Gordia S, et al. **Mol Microbiol** 1996 Feb;19(4):729–36

Isolation and characterization of a Pseudomonas aeruginosa gene, ptxR, which positively regulates exotoxin A production. Hamood AN, et al. **Mol Microbiol** 1996 Jul; 21(1):97–110

Developmentally regulated synthesis of an unusually small, basic peptide by Coxiella burnetii. Heizen RA, et al. **Mol Microbiol** 1996 Oct;22(1):9–19

Functional analysis of ssaJ and the ssaK/U operon, 13 genes encoding components of the type III secretion apparatus of Salmonella Pathogenicity Island 2. Hensel M, et al. **Mol Microbiol** 1997 Apr;24(1):155–67

Molecular characterization of hpuAB, the haemoglobin–haptoglobin–utilization operon of Neisseria meningitidis. Lewis LA, et al. **Mol Microbiol** 1997 Feb; 23(4):737–49

Complementation of deletion mutations in a cloned functional cluster of Erwinia chrysanthemi out genes with Erwinia carotovora out homologues reveals OutC and OutD as candidate gatekeepers of species–specific secretion of proteins via the type II pathway. Lindeberg M, et al. **Mol Microbiol** 1996 Apr;20(1):175–90

Molecular cloning, sequence analysis, and functional characterization of the lipopolysaccharide biosynthetic gene kdtA encoding 3–deoxy–alpha–D–manno–octulosonic acid transferase of Chlamydia pneumoniae strain TW–183. Löbau S, et al. **Mol Microbiol** 1995 Nov;18(3):391–9

SpoIIQ, a forespore–expressed gene required for engulfment in Bacillus subtilis. Londoño–Vallejo JA, et al. **Mol Microbiol** 1997 Apr;24(1):29–39

NodZ of Bradyrhizobium extends the nodulation host range of Rhizobium by adding a fucosyl residue to nodulation signals. López–Lara IM, et al. **Mol Microbiol** 1996 Jul; 21(2):397–408

Bacteriophage T12 of Streptococcus pyogenes integrates into the gene encoding a serine tRNA. McShan WM, et al. **Mol Microbiol** 1997 Feb;23(4):719–28

A global gene pool in the neisseriae [letter] Maiden MC, et al. **Mol Microbiol** 1996 Sep;21(6):1297–8

Fucosylation and arabinosylation of Nod factors in Azorhizobium caulinodans: involvement of nolK, nodZ as well as noeC and/or downstream genes. Mergaert P, et al. **Mol Microbiol** 1996 Jul;21(2):409–19

Characterization of the locus encoding the Streptococcus pneumoniae type 19F capsular polysaccharide biosynthetic pathway. Morona JK, et al. **Mol Microbiol** 1997 Feb; 23(4):751–63

Three disparately regulated genes for sigma 32–like transcription factors in Bradyrhizobium japonicum. Narberhaus F, et al. **Mol Microbiol** 1997 Apr;24(1):93–104

Genes involved in conjugative DNA processing of plasmid R6K. Núñez B, et al. **Mol Microbiol** 1997 Jun;24(6):1157–68

Mycobacterial recA is cotranscribed with a potential regulatory gene called recX. Papavinasasundaram KG, et al. **Mol Microbiol** 1997 Apr;24(1):141–53

Rhizobium leguminosarum bv. viciae contains a second fnr/fixK–like gene and an unusual fixL homologue. Patschkowski T, et al. **Mol Microbiol** 1996 Jul;21(2):267–80

Cloning of an Aeromonas hydrophila type IV pilus biogenesis gene cluster: complementation of pilus assembly functions and characterization of a type IV leader peptidase/N–methyltransferase required for extracellular protein secretion. Pepe CM, et al. **Mol Microbiol** 1996 Feb; 19(4):857–69

A set of ordered cosmids and a detailed genetic and physical map for the 8 Mb Streptomyces coelicolor A3(2) chromosome. Redenbach M, et al. **Mol Microbiol** 1996 Jul; 21(1):77–96

Identification of two previously unrecognized genes (guaA and argC) important for uropathogenesis. Russo TA, et al. **Mol Microbiol** 1996 Oct;22(2):217–29

The role of the AUU initiation codon in the negative feedback regulation of the gene for translation initiation factor IF3 in Escherichia coli. Sacerdot C, et al. **Mol Microbiol** 1996 Jul;21(2):331–46

Modulation of DNA topology by flaR, a new gene from Listeria monocytogenes. Sanchez–Campillo M, et al. **Mol Microbiol** 1995 Dec;18(5):801–11

Allelic polymorphism and site–specific recombination in the opc locus of Neisseria meningitidis. Seiler A, et al. **Mol Microbiol** 1996 Feb;19(4):841–56

Splicing of a group II intron in a functional transfer gene of Lactococcus lactis. Shearman C, et al. **Mol Microbiol** 1996 Jul;21(1):45–53

Identification of a Salmonella virulence gene required for formation of filamentous structures containing lysosomal membrane glycoproteins within epithelial cells. Stein MA, et al. **Mol Microbiol** 1996 Apr;20(1):151–64

A cluster of fourteen genes from enteropathogenic Escherichia coli is sufficient for the biogenesis of a type IV pilus. Stone KD, et al. **Mol Microbiol** 1996 Apr; 20(2):325–37

A quest for symbiosis–specific genes urges itself upon Rhizobium geneticists [letter] Van Soom C, et al. **Mol Microbiol** 1997 May;24(3):669–70

Isolation and characterization of Pseudomonas aeruginosa genes inducible by respiratory mucus derived from cystic fibrosis patients. Wang J, et al. **Mol Microbiol** 1996 Dec; 22(5):1005–12

Identification of sigma S–dependent genes associated with the stationary–phase acid–resistance phenotype of Shigella flexneri. Waterman SR, et al. **Mol Microbiol** 1996 Sep; 21(5):925–40

Functional analysis of the Enterococcus faecalis plasmid pAD1–encoded stability determinant par. Weaver KE, et al. **Mol Microbiol** 1996 Apr;20(1):53–63

Interspecies recombination, and phylogenetic distortions, within the glutamine synthetase and shikimate dehydrogenase genes of Neisseria meningitidis and commensal Neisseria species. Zhou J, et al. **Mol Microbiol** 1997 Feb;23(4):799–812

Evidence that the Pseudomonas syringae pv. syringae hrp–linked hrmA gene encodes an Avr–like protein that acts in an hrp–dependent manner within tobacco cells. Alfano JR, et al. **Mol Plant Microbe Interact** 1997 Jul; 10(5):580–8

Characterization of a genomic locus required for synthesis of the antibiotic 2,4–diacetylphloroglucinol by the biological control agent Pseudomonas fluorescens Q2–87. Bangera MG, et al. **Mol Plant Microbe Interact** 1996 Mar; 9(2):83–90

Identification and characterization of a gene on Rhizobium meliloti pSyma, syrB, that negatively affects syrM expression. Barnett MJ, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):550–9

rosR, a determinant of nodulation competitiveness in Rhizobium etli. Bittinger MA, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):180–6

Sequence and mutational analysis of the 6.7–kb region containing nodAFEG genes of Rhizobium sp. strain N33: evidence of DNA rearrangements. Cloutier J, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):401–6

A hormogonium regulating locus, hrmUA, of the cyanobacterium Nostoc punctiforme strain ATCC 29133 and its response to an extract of a symbiotic plant partner Anthoceros punctatus. Cohen MF, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):280–9

Characterization of Rhizobium tropici CIAT899 nodulation factors: the role of nodH and nodPQ genes in their sulfation. Folch–Mallol JL, et al. **Mol Plant Microbe Interact** 1996 Apr;9(3):151–63

The rpoN gene of Xanthomonas campestris pv. vesicatoria is not required for pathogenicity. Horns T, et al. **Mol Plant Microbe Interact** 1996 Dec;9(9):856–9

hrpf of Xanthomonas campestris pv. vesicatoria encodes an 87–kDa protein with homology to NolX of Rhizobium fredii. Huguet E, et al. **Mol Plant Microbe Interact** 1997 May;10(4):488–98

Deletion analysis of the 5' untranslated region of the Rhizobium meliloti nodF gene. Kalinowski G, et al.

Mol Plant Microbe Interact 1996 Dec;9(9):869–73
Cloning and characterization of a xylanase gene from corn strains of Erwinia chrysanthemi. Keen NT, et al.
Mol Plant Microbe Interact 1996 Sep;9(7):651–7
Molecular characterization and expression of the Erwinia carotovora hrpNEcc gene, which encodes an elicitor of the hypersensitive reaction. Mukherjee A, et al.
Mol Plant Microbe Interact 1997 May;10(4):462–71
The presence of hrp genes on the pathogenicity-associated plasmid of the tumorigenic bacterium Erwinia herbicola pv. gypsophilae. Nizan R, et al.
Mol Plant Microbe Interact 1997 Jul;10(5):677–82
Expression of avrPphB, an avirulence gene from Pseudomonas syringae pv. phaseolicola, and the delivery of signals causing the hypersensitive reaction in bean. Puri N, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):247–56
Functional and regulatory analysis of the two copies of the fixNOQP operon of Rhizobium leguminosarum strain VF39. Schlüter A, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):605–16
Novel and complex chromosomal arrangement of Rhizobium loti nodulation genes. Scott DB, et al.
Mol Plant Microbe Interact 1996 Apr;9(3):187–97
Cloning and characterization of four genes of Rhizobium leguminosarum bv. trifolii involved in exopolysaccharide production and nodulation. van Workum WA, et al.
Mol Plant Microbe Interact 1997 Mar;10(2):290–301
HrpG, a key hrp regulatory protein of Xanthomonas campestris pv. vesicatoria is homologous to two-component response regulators. Wengelnik K, et al.
Mol Plant Microbe Interact 1996 Nov;9(8):704–12
UV-induced mutations of supF gene on a shuttle vector plasmid in p53-deficient mouse cells are qualitatively different from those in wild-type cells. Ishizaki K, et al. **Mutat Res** 1996 Sep 2;364(1):43–9
An Escherichia coli topB mutant increases deletion and frameshift mutations in the supF target gene. Uematsu N, et al. **Mutat Res** 1997 May 1;383(3):223–30
A quick fix using random DNA amplification [news; comment] Haselkorn R. **Nat Biotechnol** 1997 Jun;15(6):511 . Comment on: Nat Biotechnol 1997 Jun;15(6):564–9.
Complete conversion of antibiotic precursor to pristinamycin IIA by overexpression of Streptomyces pristinaespiralis biosynthetic genes. Sezonov G, et al. **Nat Biotechnol** 1997 Apr;15(4):349–53
A possible origin of newly-born bacterial genes: significance of GC-rich nonstop frame on antisense strand. Ikehara K, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4249–55
Reverse gyrase gene from Sulfolobus shibatae B12: gene structure, transcription unit and comparative sequence analysis of the two domains. Jaxel C, et al.
Nucleic Acids Res 1996 Dec 1;24(23):4668–75
EcoCyc: Encyclopedia of Escherichia coli Genes and Metabolism. Karp PD, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):43–51
Contacts between Bacillus subtilis catabolite regulatory protein CcpA and amyO target site. Kim JH, et al.
Nucleic Acids Res 1997 Sep 1;25(17):3490–6
Genes and proteins of Escherichia coli K-12 (GenProtEC). Riley M. **Nucleic Acids Res** 1997 Jan 1;25(1):51–2
Characterization and transcriptional regulation of the modABCD genes for molybdenum transport in Escherichia coli. Miyake H, et al. **Nucleic Acids Symp Ser** 1995; (34):91–2
Structure and heterologous expression of the gene encoding the cell surface glycoprotein from Haloarcula japonica strain TR-1. Wakai H, et al. **Nucleic Acids Symp Ser** 1995; (34):101–2
Rhizobium symbiosis: nod factors in perspective. Long SR. **Plant Cell** 1996 Oct;8(10):1885–98 (140 ref.)
The Spirulina platensis adenylate cyclase gene, cyaC, encodes a novel signal transduction protein. Kasahara M, et al.
Plant Cell Physiol 1997 Jul;38(7):828–36
Nucleotide sequence and transcriptional analysis of the flanking region of the gene (spb) for the trans-acting factor that controls light-mediated expression of the puf operon in Rhodobacter sphaeroides. Mizoguchi H, et al.
Plant Cell Physiol 1997 May;38(5):558–67
Disruption analysis of the gene for a cold-regulated RNA-binding protein, rbpA1, in Anabaena: cold-induced initiation of the heterocyst differentiation pathway. Sato N, et al. **Plant Cell Physiol** 1996 Dec;37(8):1150–60
hrp gene-dependent induction of hin1: a plant gene activated rapidly by both harpins and the avrPto gene-mediated signal. Gopalan S, et al. **Plant J** 1996 Oct;10(4):591–600
Exogenous phytohormone-independent growth and regeneration of tobacco plants transgenic for the 6b gene of Agrobacterium tumefaciens AKE10. Wabiko H, et al. **Plant Physiol** 1996 Nov;112(3):939–51
The hydrophobic TraM protein of pKM101 is required for conjugal transfer and sensitivity to donor-specific bacteriophage. Cellini C, et al. **Plasmid** 1997;37(3):181–8
Unmarked gene integration into the chromosome of Mycobacterium smegmatis via precise replacement of the pyrF gene. Knipfer N, et al. **Plasmid** 1997;37(2):129–40
The resistance and integrase genes of pACM1, a conjugative multiple-resistance plasmid, from Klebsiella oxytoca. Preston KE, et al. **Plasmid** 1997;37(2):105–18
Conservation of the genetic switch between replication and transfer genes of IncP plasmids but divergence of the replication functions which are major host-range determinants. Thorsted PB, et al. **Plasmid** 1996 Sep; 36(2):95–111
The embAB genes of Mycobacterium avium encode an arabinosyl transferase involved in cell wall arabinan biosynthesis that is the target for the antimycobacterial drug ethambutol. Belanger AE, et al.
Proc Natl Acad Sci U S A 1996 Oct 15;93(21):11919–24
cag, a pathogenicity island of Helicobacter pylori, encodes type I-specific and disease-associated virulence factors. Censini S, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14648–53
A diffusible cytotoxin of Haemophilus ducreyi. Cope LD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4056–61
A cluster of bacterial genes for anaerobic benzene ring biodegradation. Egland PG, et al.
Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6484–9
The Bacillus subtilis crh gene encodes a HPr-like protein involved in carbon catabolite repression. Galinier A, et al.
Proc Natl Acad Sci U S A 1997 Aug 5;94(16):8439–44
16S rRNA genes reveal stratified open ocean bacterioplankton populations related to the Green Non-Sulfur bacteria. Giovannoni SJ, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7979–84
"Agrolistic" transformation of plant cells: integration of T-strands generated in planta. Hansen G, et al.
Proc Natl Acad Sci U S A 1996 Dec 10;93(25):14978–83
A novel transporter involved in cobalt uptake. Komeda H, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):36–41
Deoxycytidine kinase and deoxyguanosine kinase of Lactobacillus acidophilus R-26 are colinear products of a single gene. Ma N, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14385–90
The minimal cell genome: "on being the right size" [comment] Maniloff J. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10004–6 (25 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10268–73.
smg mutants affect the expression of alternatively spliced SR protein mRNAs in Caenorhabditis elegans. Morrison M, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9782–5
Identification of a pathogenicity island required for Salmonella survival in host cells. Ochman H, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7800–4
High-resolution functional mapping of a cloned gene by genetic footprinting. Singh IR, et al.
Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1304–9
Restricted structural gene polymorphism in the Mycobacterium tuberculosis complex indicates evolutionarily recent global dissemination. Sreevatsan S, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9869–74
A synthetic cryIC gene, encoding a Bacillus thuringiensis delta-endotoxin, confers Spodoptera resistance in alfalfa and tobacco. Strizhov N, et al.
Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15012–7
The B12-dependent ribonucleotide reductase from the archaebacterium Thermoplasma acidophila: an evolutionary solution to the ribonucleotide reductase conundrum. Tauer A, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):53–8
Large-scale isolation of candidate virulence genes of Pseudomonas aeruginosa by in vivo selection. Wang J, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10434–9
Directed evolution of a fucosidase from a galactosidase by DNA shuffling and screening. Zhang JH, et al.
Proc Natl Acad Sci U S A 1997 Apr 29;94(9):4504–9
Cloning of the tryptophan operon of Brevibacterium divaricatum and its expression in E. coli. Su YC, et al.
Proc Natl Sci Counc Repub China B 1996 Jul;20(3):87–91
Site-directed mutagenesis techniques in the study of Escherichia coli serine hydroxymethyltransferase. Iurescia S, et al. **Protein Expr Purif** 1996 May;7(3):323–8
Quick-change pathogens gain an evolutionary edge [news; comment] Grady D. **Science** 1996 Nov 15;274(5290):1081 . Comment on: Science 1996 Nov 15;274(5290):1208–11.
Regulation of lipid A modifications by Salmonella typhimurium virulence genes phoP-phoQ. Guo L, et al.
Science 1997 Apr 11;276(5310):250–3
Is data-hoarding slowing the assault on pathogens? [news] [see comments] Marshall E. **Science** 1997 Feb 7; 275(5301):777–80. Comment in: Science 1997 Mar 28;275(5308):1861–2.
Searching for living relics of the cell's early days [news] Vogel G. **Science** 1997 Sep 12;277(5332):1604
A novel variant of staphylokinase gene from Staphylococcus aureus ATCC 29213. Kim SH, et al. **Thromb Res** 1997 Aug 15;87(4):387–95
Introduction and expression of the bacterial glyoxylate cycle genes in transgenic mice. Saini KS, et al.
Transgenic Res 1996 Nov;5(6):467–73
Gene order is not conserved in bacterial evolution [letter] Mushegian AR, et al. **Trends Genet** 1996 Aug;12(8):289–90
The record of horizontal gene transfer in Salmonella. Bäumler AJ. **Trends Microbiol** 1997 Aug;5(8):318–22 (44 ref.)
In search of tuberculosis virulence genes. Collins DM.
Trends Microbiol 1996 Nov;4(11):426–30 (33 ref.)
Horizontal gene transfer among group A streptococci: implications for pathogenesis and epidemiology. Kehoe MA, et al. **Trends Microbiol** 1996 Nov;4(11):436–43 (50 ref.)
Gene replacement in Mycobacterium tuberculosis: first steps towards new TB vaccines. Dale JW. **Vaccine** 1996 Feb; 14(2):95–6
Comparison of gene probe and conventional methods for the differentiation of ovine footrot isolates of Dichelobacter nodosus. Rood JI, et al. **Vet Microbiol** 1996 Sep; 52(1-2):127–41
[The PCR amplification, cloning, sequencing, expression in E. coli of gene encoding endoflagella subunit protein (fla B) from Leptospira interrogans serovar lai] Chen Z, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):10–6 (Eng. Abstr.) **(Chi)**
[Promoter activity detection and transcription initiation site determination of the D-xylose isomerase gene of Streptomyces diastaticus strain No.7 M1033] Hang J, et al. **I Chuan Hsueh Pao** 1995;22(3):239–44 (Eng. Abstr.) **(Chi)**
[Cloning and sequencing the isopenicillin N synthetase(IPNS) gene from Streptomyces cattleya] Wang Y, et al.
Wei Sheng Wu Hsueh Pao 1996 Apr;36(2):87–92 (Eng. Abstr.) **(Chi)**
[Typing of the apx toxin gene of Actinobacillus pleuropneumoniae using PCR] Frey J, et al.
Schweiz Arch Tierheilkd 1996;138(3):121–4 (Eng. Abstr.) **(Ger)**
[Dynamics of pathogenic genes of bacteria: horizontal gene transfer and and gene conversion] Nakayama K.
Fukuoka Igaku Zasshi 1996 Aug;87(8):173–7 (4 ref.) **(Jpn)**
[Detection of the trh gene in Vibrio parahaemolyticus isolated from overseas travellers' diarrhea and their biochemical characteristics] Obata H, et al.
Kansenshogaku Zasshi 1996 Aug;70(8):815–20 (Eng. Abstr.) **(Jpn)**
[Genetic evaluation for rifampicin-susceptibility of Mycobacterium tuberculosis] Ohno H, et al.
Kansenshogaku Zasshi 1997 Apr;71(4):323–8 (Eng. Abstr.) **(Jpn)**
[Incidence of Kanagawa phenomenon-positive and -negative Vibrio parahaemolyticus strains isolated from traveller's diarrhea and their relation to tdh and trh genes] Suzuki N, et al. **Kansenshogaku Zasshi** 1997 May;71(5):417–20 (Eng. Abstr.) **(Jpn)**
[Detection of verotoxin genes in verotoxin-producing Escherichia coli by polymerase chain reaction and their genotyping] Ito K, et al. **Nippon Rinsho** 1997 Mar; 55(3):660–4 (18 ref.) **(Jpn)**
[Regulation mechanism of glycopeptide resistance expression] Ohno A, et al. **Nippon Rinsho** 1997 May; 55(5):1206–12 (14 ref.) (Eng. Abstr.) **(Jpn)**
[Antiseptic-resistance in Staphylococcus aureus] Sasatsu M. **Nippon Saikingaku Zasshi** 1996 Aug;51(3):755–65 (61 ref.) **(Jpn)**
[Directed transfer of the human apolipoprotein A-I gene and bacterial genes-markers into rat liver] Perevozchikov AP, et al. **Dokl Akad Nauk** 1997 Feb;352(4):571–4 **(Rus)**
[Role of the rpoS gene in the regulation of expression of plasmid genes determining the synthesis of C51 microcin] Fomenko DE, et al. **Genetika** 1997 Feb;33(2):284–6 (Eng. Abstr.) **(Rus)**
[Genetic mapping of an additional regulatory locus of the riboflavin operon of Bacillus subtilis] Kreneva RA, et al. **Genetika** 1996 Dec;32(12):1623–8 (Eng. Abstr.) **(Rus)**
[Identification of genes controlling the transition of Salmonella typhimurium bacteria to a non-culturable state] Romanova IuM, et al. **Genetika** 1996 Sep;32(9):1184–90 (Eng. Abstr.) **(Rus)**
[Emergence of toxigenic Vibrio cholerae strains on non-O1 serotype as a result of the exchange of genetic information] Smirnova NI, et al. **Genetika** 1996 Jun;32(6):744–9 (Eng. Abstr.) **(Rus)**
[Riboflavin biosynthetic genes in Bacillus amyloliquefaciens: primary structure, organization and regulation of activity] Gusarov II, et al. **Mol Biol (Mosk)** 1997 May-Jun; 31(3):446–53 **(Rus)**
[The determination of the content of the cholera toxin gene in the composition of the DNA from Vibrio cholerae strains by means of the nested polymerase chain reaction] Glukhov AI, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct;(5):20–2 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Mutagenic specificity of N-methyl-N'-nitro-N-nitrosoguanidine in the tonB gene on the chromosome of Escherichia coli recA+ and recA- cells. Wang X, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):334–9
Mutational specificity of aflatoxin B1. Comparison of in vivo host-mediated assay with in vitro S9 metabolic activation. Prieto-Alamo MJ, et al. **Carcinogenesis** 1996 Sep; 17(9):1997–2002
PCR-RFLP typing of ureC from Helicobacter pylori isolated in Argentina from gastric biopsies before and after treatment with clarithromycin. Stone GG, et al.
Epidemiol Infect 1997 Apr;118(2):119–24
bacterial mercury-resistance genes. Hobman JL, et al.
Met Ions Biol Syst 1997;34:527–68 (185 ref.)
Regionally-targeted mutagenesis by metabolically-activated steviol: DNA sequence analysis of steviol-induced mutants of guanine phosphoribosyltransferase (gpt) gene of Salmonella typhimurium TM677. Matsui M, et al.
Mutagenesis 1996 Nov;11(6):565–72
[The genotoxicity and carcinogenic potential of gastrofenzin] Mirkova E. **Eksp Med Morfol** 1994;32(3-4):57–68 (Eng. Abstr.) **(Bul)**
[The products of water chlorination as inducers of gene

mutations] Dugan AM. **Tsitol Genet** 1996 Sep–Oct; 30(5):76–81 (Eng. Abstr.) **(Rus)**

GENETICS

Rapid diagnosis of methicillin–resistant Staphylococcus aureus bacteremia by nested polymerase chain reaction. Kitagawa Y, et al. **Ann Surg** 1996 Nov;224(5):665–71

Genetic networks controlling the initiation of sporulation and the development of genetic competence in Bacillus subtilis. Grossman AD. **Annu Rev Genet** 1995;29:477–508 (121 ref.)

Distribution of genes encoding resistance to streptogramin A and related compounds among staphylococci resistant to these antibiotics. Allignet J, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2523–8

Monooxygenase–like sequence of a Rhodococcus equi gene conferring increased resistance to rifampin by inactivating this antibiotic. Andersen SJ, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):218–21

Specificity of induction of glycopeptide resistance genes in Enterococcus faecalis. Baptista M, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2291–5

Characterization of beta–lactamase gene blaPER–2, which encodes an extended–spectrum class A beta–lactamase. Bauernfeind A, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):616–20

Quinolone resistance locus nfxD of Escherichia coli is a mutant allele of the parE gene encoding a subunit of topoisomerase IV. Breines DM, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):175–9

A novel gentamicin resistance gene in Enterococcus. Chow JW, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):511–4

New tetracycline resistance determinants coding for ribosomal protection in streptococci and nucleotide sequence of tet(T) isolated from Streptococcus pyogenes A498. Clermont D, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):112–6

Alterations in the GyrA subunit of DNA gyrase and the ParC subunit of topoisomerase IV in quinolone–resistant clinical isolates of Klebsiella pneumoniae. Deguchi T, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):699–701

Uncommon occurrence of mutations in the gyrB gene associated with quinolone resistance in clinical isolates of Neisseria gonorrhoeae [letter] Deguchi T, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2437–8

Variability of chromosomally encoded beta–lactamases from Klebsiella oxytoca. Fournier B, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1641–8

Sequence and characterization of a novel chromosomal aminoglycoside phosphotransferase gene, aph (3')–IIb, in Pseudomonas aeruginosa. Hächler H, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1254–6

Heterogeneous expression of glycopeptide resistance in enterococci associated with transfer of vanB. Hayden MK, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):872–4

High–level fluoroquinolone resistance in Streptococcus pneumoniae requires mutations in parC and gyrA. Janoir C, et al. **Antimicrob Agents Chemother** 1996 Dec; 40(12):2760–4

Induction of ermSV by 16–membered–ring macrolide antibiotics. Kamimiya S, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):530–4

Plasmid–mediated formaldehyde resistance in Escherichia coli: characterization of resistance gene. Kümmerle N, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2276–9

Suppression of methicillin resistance in a mecA–containing pre–methicillin–resistant Staphylococcus aureus strain is caused by the mecI–mediated repression of PBP 2' production. Kuwahara–Arai K, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2680–5

Identification and characterization of IS1476, an insertion sequence–like element that disrupts VanY function in a vancomycin–resistant Enterococcus faecium strain. MacKinnon MG, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1805–7

Cloning and sequencing of a novel gene (recG) that affects the quinolone susceptibility of Staphylococcus aureus. Niga T, et al. **Antimicrob Agents Chemother** 1997 Aug; 41(8):1770–4

Emergence of vancomycin resistance in the genus Streptococcus: characterization of a vanB transferable determinant in Streptococcus bovis. Poyart C, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):24–9

Identification of chromosomal location of mupA gene, encoding low–level mupirocin resistance in staphylococcal isolates. Ramsey MA, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2820–3

Characterization of pncA mutations in pyrazinamide–resistant Mycobacterium tuberculosis. Scorpio A, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):540–3

Transferable hyperproduction of TEM–1 beta–lactamase in Shigella flexneri due to a point mutation in the pribnow box. Siu LK, et al. **Antimicrob Agents Chemother** 1997 Feb; 41(2):468–70

Analysis of the oxyR–ahpC region in isoniazid–resistant and –susceptible Mycobacterium tuberculosis complex organisms recovered from diseased humans and animals in diverse localities. Sreevatsan S, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):600–6

Mutations associated with pyrazinamide resistance in pncA of Mycobacterium tuberculosis complex organisms. Sreevatsan S, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):636–40

Plasmid–borne high–level resistance to gentamicin in Enterococcus hirae, Enterococcus avium, and Enterococcus raffinosus. Straut M, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1263–5

Contribution of mutations in gyrA and parC genes to fluoroquinolone resistance of mutants of Streptococcus pneumoniae obtained in vivo and in vitro. Tankovic J, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2505–10

Cloning and nucleotide sequence of the gyrA gene from Campylobacter fetus subsp. fetus ATCC 27374 and characterization of ciprofloxacin–resistant laboratory and clinical isolates. Taylor DE, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):665–71

Comparison of the beta–lactamase gene cluster in clonally distinct strains of Enterococcus faecalis. Tomayko JF, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1170–4

Identification of the tetracycline resistance gene, tet(O), in Streptococcus pneumoniae. Widdowson CA, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2891–3

Alterations in the DNA topoisomerase IV grlA gene responsible for quinolone resistance in Staphylococcus aureus. Yamagishi J, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1157–63

Directly repeated insertion of 9–nucleotide sequence detected in penicillin–binding protein 2B gene of penicillin–resistant Streptococcus pneumoniae. Yamane A, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1257–9

Localization of the sequence–determined DNA bending center upstream of the streptokinase gene skc. Gross S, et al. **Arch Microbiol** 1996 Aug;166(2):116–21

A Corynebacterium glutamicum gene encoding a two–domain protein similar to biotin carboxylases and biotin–carboxyl–carrier proteins. Jäger W, et al. **Arch Microbiol** 1996 Aug;166(2):76–82

The pseudoazurin gene from Thiosphaera pantotropha: analysis of upstream putative regulatory sequences and overexpression in Escherichia coli. Leung YC, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):699–705

Organization and nucleotide sequences of ten ribosomal protein genes from the region equivalent to the S10 operon in the archaebacterium, Halobacterium halobium. Miyokawa T, et al. **Biochem Mol Biol Int** 1996 Aug; 39(6):1209–20

Cloning of dnaK and dnaJ homologous genes from a purple non–sulfur bacterium Rhodopseudomonas species. Momma K, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):235–9

Influence of the linking number of template DNA on sigma 32–dependent transcription initiation in vitro of the Escherichia coli groE gene. Kurokawa K, et al. **Biol Pharm Bull** 1996 Jul;19(7):922–31

Rapid method for cloning a Ca(2+)–dependent metalloprotease from a gram–positive bacterium in Escherichia coli. Kohl A, et al. **Biotechniques** 1997 Jan; 22(1):58–60

Physical mapping of several heat–shock genes in Pseudomonas aeruginosa and the cloning of the mopA (GroEL) gene. Farinha MA, et al. **Can J Microbiol** 1996 Apr;42(4):326–34

Lack of p53 and ras mutations in Helicobacter hepaticus–induced liver tumors in A/JCr mice. Sipowicz MA, et al. **Carcinogenesis** 1997 Jan;18(1):233–6

Immunologic epitope, gene, and immunity involved in pneumococcal glycoconjugate. Lee CJ, et al. **Crit Rev Microbiol** 1997;23(2):121–42 (131 ref.)

A 570–kb DNA sequence of the Escherichia coli K–12 genome corresponding to the 28.0–40.1 min region on the linkage map. Aiba H, et al. **DNA Res** 1996 Dec 31; 3(6):363–77

Computer survey for likely genes in the one megabase contiguous genomic sequence data of Synechocystis sp. strain PCC6803. Hirosawa M, et al. **DNA Res** 1995 Dec 31;2(6):239–46

A 460–kb DNA sequence of the Escherichia coli K–12 genome corresponding to the 40.1–50.0 min region on the linkage map. Itoh T, et al. **DNA Res** 1996 Dec 31; 3(6):379–92

Erratum to "The methanol oxidation genes mxaFJGIR (S) ACKLD in Methylobacterium extorquens" [FEMS Microbiol. Lett. 146 (1997) 31–38] Amaratunga K, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):175–7

Neomycin– and spectinomycin–resistance replacement vectors for Bacillus subtilis. Chary VK, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):135–9

The identification a novel gene required for lipopolysaccharide biosynthesis by Haemophilus influenzae RM7004, using transposon Tn916 mutagenesis. High NJ, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):325–31

Transcriptional analysis of the sigA and sigB genes of Brevibacterium lactofermentum. Oguiza JA, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):111–7

A helicase gene (helO) in Rhizobium meliloti WSM419. Reeve WG, et al. **FEMS Microbiol Lett** 1997 Aug 1; 153(1):43–9

Identification and characterization of the gyrB gene from Treponema pallidum subsp. pallidum. Stamm LV, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):129–34

Characterization of IS1474, an insertion sequence of the IS21 family isolated from Pseudomonas alcaligenes NCIB 9867. Yeo CC, et al. **FEMS Microbiol Lett** 1997 Apr 15; 149(2):257–63

Role of Escherichia coli rpoS and associated genes in defense against oxidative damage. Eisenstark A, et al. **Free Radic Biol Med** 1996;21(7):975–93 (130 ref.)

Clinical and pathological importance of heterogeneity in vacA, the vacuolating cytotoxin gene of Helicobacter pylori. Atherton JC, et al. **Gastroenterology** 1997 Jan; 112(1):92–9

Complementation of divergent mga genes in group A Streptococcus. Andersson G, et al. **Gene** 1996 Oct 10; 175(1–2):77–81

The locus of enterocyte effacement pathogenicity island of enteropathogenic Escherichia coli encodes secretion functions and remnants of transposons at its extreme right end. Donnenberg MS, et al. **Gene** 1997 Jan 3;184(1):107–14

Organisation of the tmb catabolic operons of Pseudomonas putida TMB and evolutionary relationship with the xyl operons of the TOL plasmid pWW0. Favaro R, et al. **Gene** 1996 Dec 5;182(1–2):189–93

Cloning and characterization of dnaE, encoding the catalytic subunit of replicative DNA polymerase III, from Vibrio cholerae strain C6706. Franco AA, et al. **Gene** 1996 Oct 10;175(1–2):281–3

Cloning of a gene from Escherichia coli that confers resistance to fosmidomycin as a consequence of amplification. Fujisaki S, et al. **Gene** 1996 Oct 10; 175(1–2):83–7

The cpsABCDE genes involved in polysaccharide production in Streptococcus salivarius ssp. thermophilus strain NCBF 2393. Griffin AM, et al. **Gene** 1996 Dec 12; 183(1–2):23–7

Molecular analysis of the Pseudomonas aeruginosa genes, ruvA, ruvB and ruvC, involved in processing of homologous recombination intermediates. Hishida T, et al. **Gene** 1996 Dec 5;182(1–2):63–70

Identification, isolation and sequence of the Aspergillus nidulans xlnC gene encoding the 34–kDa xylanase. MacCabe AP, et al. **Gene** 1996 Oct 10;175(1–2):29–33

Two new members of the bio B superfamily: cloning, sequencing and expression of bio B genes of Methylobacillus flagellatum and Corynebacterium glutamicum. Serebriiskii IG, et al. **Gene** 1996 Oct 10; 175(1–2):15–22

Cloning and expression of genes encoding lipid A biosynthesis from Haemophilus influenzae type b. Servos S, et al. **Gene** 1996 Oct 10;175(1–2):137–41

Cloning and characterization of the gene encoding Halobacterium halobium adenylate kinase. Song S, et al. **Gene** 1996 Oct 10;175(1–2):65–70

A Shigella flexneri invasion plasmid gene, ipgH, with homology to IS629 and sequences encoding bacterial sugar phosphate transport proteins. Venkatesan MM, et al. **Gene** 1996 Oct 10;175(1–2):23–7

Functional expression of heterologous type 4 fimbriae in Pseudomonas aeruginosa. Watson AA, et al. **Gene** 1996 Oct 10;175(1–2):143–50

Phylogenetic distribution of the global regulatory gene csrA among eubacteria. White D, et al. **Gene** 1996 Dec 5; 182(1–2):221–3

Identification and nucleotide sequence of Rhizobium meliloti insertion sequence ISRm6, a small transposable element that belongs to the IS3 family. Zekrí S, et al. **Gene** 1996 Oct 10;175(1–2):43–8

Characterization of the Treponema denticola prtP gene encoding a prolyl–phenylalanine–specific protease (dentilisin). Ishihara K, et al. **Infect Immun** 1996 Dec; 64(12):5178–86

The tet(M) gene of a Tn1545–like transposon and Neisseria gonorrhoeae [letter; comment] Gascoyne–Binzi DM, et al. **J Antimicrob Chemother** 1997 Jan;39(1):107–8. Comment on: J Antimicrob Chemother 1996 Feb;37(2):223–32.

The region of the parE gene, homologous to the quinolone–resistant determining region of the gyrB gene, is not linked with the acquisition of quinolone resistance in Escherichia coli clinical isolates [letter] Ruiz J, et al. **J Antimicrob Chemother** 1997 Jun;39(6):839–40

Quinolone–resistance mutations in the topoisomerase IV parC gene of Acinetobacter baumannii. Vila J, et al. **J Antimicrob Chemother** 1997 Jun;39(6):757–62

Cloning and characterization of argR, a gene that participates in regulation of arginine biosynthesis and catabolism in Pseudomonas aeruginosa PAO1. Park SM, et al. **J Bacteriol** 1997 Sep;179(17):5300–8

Identification and characterization of cell wall–cell division gene clusters in pathogenic gram–positive cocci. Pucci MJ, et al. **J Bacteriol** 1997 Sep;179(17):5632–5

Novel alleles of the Escherichia coli dnaA gene. Sutton MD, et al. **J Mol Biol** 1997 Sep 5;271(5):693–703

Genetic diversity of the genes encoding the outer membrane lipoprotein (omlA) of Actinobacillus pleuropneumoniae. Osaki M, et al. **J Vet Med Sci** 1997 Mar;59(3):213–5

Detection of toxic shock syndrome toxin–1 gene in Staphylococcus aureus bovine isolates and bulk milk by the polymerase chain reaction. Takeuchi S, et al. **J Vet Med Sci** 1996 Nov;58(11):1133–5

Widespread occurrence of integrons causing multiple antibiotic resistance in bacteria [letter] Jones ME, et al. **Lancet** 1997 Jun 14;349(9067):1742–3

Genotypic characterization of a nosocomial outbreak of VanA Enterococcus faecalis. Biavasco F, et al. **Microb Drug Resist** 1996 Summer;2(2):231–7

Ubiquitous presence of a mecA homologue in natural isolates of Staphylococcus sciuri. Couto I, et al.

Microb Drug Resist 1996 Winter;2(4):377–91

A functional analysis of the Streptococcus pneumoniae genes involved in the synthesis of type 1 and type 3 capsular polysaccharides. García E, et al. **Microb Drug Resist** 1997 Spring;3(1):73–88 (112 ref.)

Inducible expression of the chromosomal cdiA from Citrobacter diversus NF85, encoding an ambler class A beta-lactamase, is under similar genetic control to the chromosomal ampC, encoding an ambler class C enzyme, from Citrobacter freundii OS60. Jones ME, et al. **Microb Drug Resist** 1995 Winter;1(4):285–91

Enterococcus faecium strains with vanA-mediated high-level glycopeptide resistance isolated from animal foodstuffs and fecal samples of humans in the community. Klare I, et al. **Microb Drug Resist** 1995 Fall;1(3):265–72

Tracing the spread of methicillin-resistant Staphylococcus aureus by Southern blot hybridization using gene-specific probes of mec and Tn554. Kreiswirth BN, et al. **Microb Drug Resist** 1995 Winter;1(4):307–13

A transferable multiple drug resistance plasmid from Vibrio cholerae O1. Kruse H, et al. **Microb Drug Resist** 1995 Fall; 1(3):203–10

Quinolone resistance mutations in the gyrA gene of clinical isolates of Salmonella. Ouabdesselam S, et al. **Microb Drug Resist** 1996 Fall;2(3):299–302

Ubiquitous distribution of the competence related genes comA and comC among isolates of Streptococcus pneumoniae. Ramirez M, et al. **Microb Drug Resist** 1997 Spring;3(1):39–52

The gene encoding for penicillin-binding protein 5 of Enterococcus faecalis is useful for development of a species-specific DNA probe. Robbi C, et al. **Microb Drug Resist** 1996 Summer;2(2):215–8

Molecular epidemiology of integron-associated antibiotic resistance genes in clinical isolates of enterobacteriaceae. Sallen B, et al. **Microb Drug Resist** 1995 Fall;1(3):195–202

A phosphoglucomutase-like gene essential for the optimal expression of methicillin resistance in Staphylococcus aureus: molecular cloning and DNA sequencing. Wu S, et al. **Microb Drug Resist** 1996 Summer;2(2):277–86

Tracking the evolutionary origin of the methicillin resistance gene: cloning and sequencing of a homologue of mecA from a methicillin susceptible strain of Staphylococcus sciuri [published erratum appears in Microb Drug Resist 1997 Summer;3(2):212] Wu S, et al. **Microb Drug Resist** 1996 Winter;2(4):435–41

The toxigenic element of Clostridium difficile strain VPI 10463. Hammond GA, et al. **Microb Pathog** 1995 Oct; 19(4):203–13

Outer membrane protein CD of Branhamella catarrhalis: sequence conservation in strains recovered from the human respiratory tract. Hsiao CB, et al. **Microb Pathog** 1995 Oct; 19(4):215–25

Interruption of the Streptococcus gordonii M5 sspA/sspB intergenic region by an insertion sequence related to IS1167 of Streptococcus pneumoniae. Demuth DR, et al. **Microbiology** 1997 Jun;143 (Pt 6):2047–55

Geographic variation of the predictive values of genomic mutations associated with streptomycin resistance in Mycobacterium tuberculosis. Dobner P, et al. **Mol Cell Probes** 1997 Apr;11(2):123–6

Identification and analysis of genes from Streptomyces pristinaespiralis encoding enzymes involved in the biosynthesis of the 4-dimethylamino-L-phenylalanine precursor of pristinamycin I. Blanc V, et al. **Mol Microbiol** 1997 Jan;23(2):191–202

Cloning, characterization and disruption of a (p)ppGpp synthetase gene (relA) of Streptomyces coelicolor A3(2). Chakraburtty R, et al. **Mol Microbiol** 1996 Jan; 19(2):357–368

Identification and characterization of genes required for post-translational modification of Campylobacter coli VC167 flagellin. Guerry P, et al. **Mol Microbiol** 1996 Jan; 19(2):369–78

Ambidextrous transcriptional activation by SoxS: requirement for the C-terminal domain of the RNA polymerase alpha subunit in a subset of Escherichia coli superoxide-inducible genes. Jair KW, et al. **Mol Microbiol** 1996 Jan;19(2):307–17

Transcriptional analysis of type 1 capsule genes in Staphylococcus aureus. Ouyang S, et al. **Mol Microbiol** 1997 Feb;23(3):473–82

Cell-type specificity of the Anabaena fdxN-element rearrangement requires xisH and xisI. Ramaswamy KS, et al. **Mol Microbiol** 1997 Mar;23(6):1241–9

Isolation and analysis of a gene encoding alpha-glucuronidase, an enzyme with a novel primary structure involved in the breakdown of xylan. Ruile P, et al. **Mol Microbiol** 1997 Jan;23(2):267–79

Substrate induction and glucose repression of maltose utilization by Streptomyces coelicolor A3(2) is controlled by malR, a member of the lacI-galR family of regulatory genes. van Wezel GP, et al. **Mol Microbiol** 1997 Feb; 23(3):537–49

A mutation spectra database for bacterial and mammalian genes. Hutchinson F, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):192–5

Catabolite repression control in the Pseudomonads. Collier DN, et al. **Res Microbiol** 1996 Jul–Sep;147(6–7):551–61 (41 ref.)

Reverse catabolite repression and the regulation of CO2 fixation in Rhodobacter and related bacteria. Inui M, et al. **Res Microbiol** 1996 Jul–Sep;147(6–7):562–6 (32 ref.)

Genotyping of Helicobacter pylori isolates by sequencing of PCR products and comparison with the RAPD technique. Kansau I, et al. **Res Microbiol** 1996 Oct; 147(8):661–9

The qmeA (ts) mutation of Escherichia coli is localized in the fabI gene, which encodes enoyl-ACP reductase. Kleerebezem M, et al. **Res Microbiol** 1996 Oct; 147(8):609–13

Identification of Listeria species by a semi-nested polymerase chain reaction. Manzano M, et al. **Res Microbiol** 1996 Oct; 147(8):637–40

Characterization of Escherichia coli strains isolated from environmental water habitats and from stool samples of healthy volunteers. Mühldorfer I, et al. **Res Microbiol** 1996 Oct;147(8):625–35

Carbon metabolism and its regulation in Streptomyces and other high GC gram-positive bacteria. Paulsen IT. **Res Microbiol** 1996 Jul–Sep;147(6–7):535–41 (42 ref.)

A voyage along the bases: novel phosphotransferase genes revealed by in silico analyses of the Escherichia coli genome. Reizer J, et al. **Res Microbiol** 1996 Jul–Sep; 147(6–7):458–71 (61 ref.)

Post-transcriptional regulation of bacterial carbohydrate metabolism: evidence that the gene product CsrA is a global mRNA decay factor. Romeo T. **Res Microbiol** 1996 Jul–Sep;147(6–7):505–12 (25 ref.)

Flagellin gene profiling of Campylobacter jejuni heat-stable serotype 1 and 4 complex. Santesteban E, et al. **Res Microbiol** 1996 Oct;147(8):641–9

Species attribution and strain typing of Oenococcus oeni (formerly Leuconostoc oenos) with restriction endonuclease fingerprints. Viti C, et al. **Res Microbiol** 1996 Oct;147(8):651–60

Some puzzles about carbon catabolite repression in yeast. Wills C. **Res Microbiol** 1996 Jul–Sep;147(6–7):566–72 (39 ref.)

Evolution evolving. New findings suggest mutation is more complicated than anyone thought [news] Beardsley T. **Sci Am** 1997 Sep;277(3):15, 18

Molecular biology of Mycoplasma. Christiansen G, et al. **Wien Klin Wochenschr** 1997 Aug 8;109(14–15):557–61 (23 ref.)

[Genes involved in the virulence of enterohemorrhagic Escherichia coli] Izumiya H, et al. **Nippon Rinsho** 1997 Mar;55(3):641–5 (16 ref.) (Eng. Abstr.) **(Jpn)**

[The role of plasmid gef-like genes in eliminating from bacterial populations the specimens that have lost these plasmids] Lishchenko NN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):90–4 (24 ref.) **(Rus)**

IMMUNOLOGY

Allelic variation of the streptokinase gene in beta-hemolytic streptococci group C and G isolates of human origin. Tewodros W, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):29–34

Evaluation of a phoP/phoQ-deleted, aroA-deleted live oral Salmonella typhi vaccine strain in human volunteers. Hohmann EL, et al. **Vaccine** 1996 Jan;14(1):19–24

PHYSIOLOGY

Expression of the multidrug resistance operon mexA-mexB-oprM in Pseudomonas aeruginosa: mexR encodes a regulator of operon expression. Poole K, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2021–8

Modulation of horizontal gene transfer in pathogenic bacteria by in vivo signals. Mel SF, et al. **Cell** 1996 Nov 29; 87(5):795–8 (16 ref.)

Molecular cloning, sequence analysis and functional characterization of the gene kdsA, encoding 3-deoxy-D-manno-2-octulosonate-8-phosphate synthase of Chlamydia psittaci 6BC. Brabetz W, et al. **Eur J Biochem** 1997 Feb 15;244(1):66–73

Effect of leader peptide mutations on biosynthesis of the lantibiotic Pep5. Neis S, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):249–55

The role of the mutT gene of Escherichia coli in maintaining replication fidelity. Fowler RG, et al. **FEMS Microbiol Rev** 1997 Aug;21(1):43–54 (90 ref.)

Gene transfer, gentamicin resistance and enterococci. Simjee S, et al. **J Hosp Infect** 1997 Aug;36(4):249–59 (36 ref.)

RNase E: still a wonderfully mysterious enzyme. Cohen SN, et al. **Mol Microbiol** 1997 Mar;23(6):1099–106 (70 ref.)

Mycobacterium bovis BCG genes involved in the biosynthesis of cyclopropyl keto- and hydroxy-mycolic acids. Dubnau E, et al. **Mol Microbiol** 1997 Jan; 23(2):313–22

High expression of plasmid-encoded tetracycline resistance gene in E. coli causes a decrease in membrane-bound ATPase activity. Valenzuela MS, et al. **Plasmid** 1996 Jul; 36(1):19–25

How Salmonella became a pathogen. Groisman EA, et al. **Trends Microbiol** 1997 Sep;5(9):343–9 (74 ref.)

Selfish operons and speciation by gene transfer. Lawrence JG. **Trends Microbiol** 1997 Sep;5(9):355–9 (25 ref.)

RADIATION EFFECTS

recA-dependence of the response of Pseudomonas aeruginosa to UVA and UVB irradiation. Kidambi SP, et al. **Microbiology** 1996 Apr;142 (Pt 4):1033–40

[Relationship between the UV-induction of exact exclusion of transposons and the function of umuDC, lexA, recA genes and plasmid pkM101] Rusina Olu, et al. **Mol Gen Mikrobiol Virusol** 1997;(1):3–7 (Eng. Abstr.) **(Rus)**

GENES, BCL-2

see related

PROTO-ONCOGENE PROTEINS C-BCL-2

bcl-2 expression in pilomatricoma. Farrier S, et al. **Am J Dermatopathol** 1997 Jun;19(3):254–7

Frequency of BCL-2/J(H) translocations in peripheral blood of follicular lymphoma patients. Zhang XY, et al. **Am J Hematol** 1997 Aug;55(4):205–7

The role of p53 tumor suppressor gene and bcl-2 protooncogene in rat corpus luteum death. Trott EA, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):327–31; discussion 331–2

Expression of bcl-2 and bax in regenerating rat renal tubules following ischemic injury. Basile DP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):F640–7

2-chlorodeoxyadenosine (2-CDA) therapy in previously untreated patients with follicular stage III-IV non-Hodgkin's lymphoma [see comments] Betticher DC, et al. **Ann Oncol** 1996 Oct;7(8):793–9. Comment in: Ann Oncol 1996 Oct;7(8):767.

Somatic mutations of the translocated bcl-2 gene are associated with morphologic transformation of follicular lymphoma to diffuse large-cell lymphoma. Matolcsy A, et al. **Ann Oncol** 1997;8 Suppl 2:119–22

Clinical significance of bcl-2 (MBR)/JH rearrangement in the peripheral blood of patients with diffuse large B-cell lymphomas [see comments] Zucca E, et al. **Ann Oncol** 1996 Dec;7(10):1023–7. Comment in: Ann Oncol 1996 Dec;7(10):993–6.

Mechanisms of Bcl-2 family protein function and dysfunction in health and disease. Reed JC. **Behring Inst Mitt** 1996 Oct;(97):72–100 (193 ref.)

Lessons from bcl-2 transgenic mice for immunology, cancer biology and cell death research. Strasser A, et al. **Behring Inst Mitt** 1996 Oct;(97):101–17 (120 ref.)

Decreased C-MYC and BCL2 expression correlates with methylprednisolone-mediated inhibition of Raji lymphoma growth. Morris G, et al. **Biochem Mol Med** 1997 Apr; 60(2):108–15

Cell death signal transduction and Bcl-2 function. Herrmann JL, et al. **Biochem Soc Trans** 1996 Nov;24(4):1059–65 (64 ref.)

Programmed cell death and the mammary gland—the involvement of the Bcl-2 family members in the control of epithelial apoptosis. Metcalfe AD, et al. **Biochem Soc Trans** 1996 Aug;24(3):347S

Prognostic significance of Bcl-2 protein expression and Bcl-2 gene rearrangement in diffuse aggressive non-Hodgkin's lymphoma. Gascoyne RD, et al. **Blood** 1997 Jul 1; 90(1):244–51

Morphologic transformation of follicular lymphoma is associated with somatic mutation of the translocated Bcl-2 gene. Matolcsy A, et al. **Blood** 1996 Nov 15;88(10):3937–44

BCL2 overexpression associated with chromosomal amplification in diffuse large B-cell lymphoma. Monni O, et al. **Blood** 1997 Aug 1;90(3):1168–74

Clinical relevance of bcl-2(MBR)/J(H) rearrangement detected by polymerase chain reaction in the peripheral blood of patients with follicular lymphoma. Bertoni F, et al. **Br J Cancer** 1997;76(1):36–9

In leukaemic CD5+ B cells the expression of BCL-2 gene family is shifted toward protection from apoptosis. Gottardi D, et al. **Br J Haematol** 1996 Sep;94(4):612–8

Regulation of clinical chemoresistance by bcl-2 and bax oncoproteins in B-cell chronic lymphocytic leukaemia. Pepper C, et al. **Br J Haematol** 1996 Dec;95(3):513–7

Bcl-2 prevents hippocampal cell death induced by the neuroleptic drug haloperidol. Lezoualc'h F, et al. **Brain Res** 1996 Oct 28;738(1):176–9

Molecular and immunohistochemical analysis of the bcl-1/cyclin D1 gene in laryngeal squamous cell carcinomas: correlation of protein expression with lymph node metastases and advanced clinical stage. Fracchiolla NS, et al. **Cancer** 1997 Mar 15;79(6):1114–21

Overxpression of Bcl-2 inhibits UVA-mediated immediate apoptosiinrat 6 fibroblasts: evidence for the involvement of Bcl-2 as an antioxidant. Pourzand C, et al. **Cancer Res** 1997 Apr 15;57(8):1405–11

Bcl-2 family proteins and the regulation of programmed cell death in leukemia and lymphoma. Reed JC, et al. **Cancer Treat Res** 1996;84:31–72 (231 ref.)

Targeted overexpression of Bcl-2 in ovaries of transgenic mice leads to decreased follicle apoptosis, enhanced folliculogenesis, and increased germ cell tumorigenesis. Hsu SY, et al. **Endocrinology** 1996 Nov;137(11):4837–43

Rapid modulation of the apoptosis regulatory genes, bcl-2 and bax by prolactin in rat Nb2 lymphoma cells. Leff MA, et al. **Endocrinology** 1996 Dec;137(12):5456–62

Long-term survival of retinal ganglion cells following optic nerve section in adult bcl-2 transgenic mice. Cenni MC, et al. **Eur J Neurosci** 1996 Aug;8(8):1735–45

Merkel cells and Merkel cell carcinoma express the BCL-2 proto-oncogene [corrected and and republished article originally printed in Exp Dermatol 1996 Apr;5(2):102–7] Plettenberg A, et al. **Exp Dermatol** 1996 Jun;5(3):183–8

Importance of the Bcl-2 family in cell death regulation. McDonnell TJ, et al. **Experientia** 1996 Oct 31; 52(10-11):1008-17 (110 ref.)

G2 cell cycle arrest and apoptosis are induced in Burkitt's lymphoma cells by the anticancer agent oracin. Klucar J, et al. **FEBS Lett** 1997 Jan 2;400(1):127-30

Analysis of a regulatory element in the 5'-untranslated region of the bcl-2 gene. Körner I, et al. **FEBS Lett** 1997 Apr 7;406(1-2):31-2

Bcl-2 antagonizes apoptotic cell death induced by two new ceramide analogues. Wieder T, et al. **FEBS Lett** 1997 Jul 14;411(2-3):260-4

Diverse properties of human t(8;14) neoplasms: [1] ATLS and absence of BCL-2 [2] modulation of RAG-1 expression with S-Ig ligation. Tani A, et al. **Hum Cell** 1996 Dec; 9(4):337-44

Constitutive Bcl-2 expression during immunoglobulin heavy chain-promoted B cell differentiation expands novel precursor B cells. Young F, et al. **Immunity** 1997 Jan; 6(1):23-33

Bcl-2 transfection protects Hut78 cell line from different types of cytotoxic effector cells. Saxena RK, et al. **Immunol Lett** 1996 Sep;52(2-3):95-8

A new immunosuppressant, FTY720, induces bcl-2-associated apoptotic cell death in human lymphocytes. Suzuki S, et al. **Immunology** 1996 Dec; 89(4):518-23

bcl-2 over-expression delays radiation-induced apoptosis without affecting the clonogenic survival of human prostate cancer cells. Kyprianou N, et al. **Int J Cancer** 1997 Jan 27;70(3):341-8

Nerve growth factor induces the expression of certain cytokine genes and bcl-2 in mast cells. Potential role in survival promotion. Bullock ED, et al. **J Biol Chem** 1996 Nov 1;271(44):27500-8

Energy metabolism during apoptosis. Bcl-2 promotes survival in hematopoietic cells induced to apoptose by growth factor withdrawal by stabilizing a form of metabolic arrest. Garland JM, et al. **J Biol Chem** 1997 Feb 21;272(8):4680-8

The WT1 protein is a negative regulator of the normal bcl-2 allele in t(14;18) lymphomas. Heckman C, et al. **J Biol Chem** 1997 Aug 1;272(31):19609-14

Bcl-2 modulates telomerase activity. Mandal M, et al. **J Biol Chem** 1997 May 30;272(22):14183-7

Glucose deprivation-induced cytotoxicity in drug resistant human breast carcinoma MCF-7/ADR cells: role of c-myc and bcl-2 in apoptotic cell death. Lee YJ, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):681-6

Expression of interleukin-1 beta converting enzyme gene family and bcl-2 gene family in the rat brain following permanent occlusion of the middle cerebral artery. Asahi M, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):11-8

Herpes simplex viral vectors expressing Bcl-2 are neuroprotective when delivered after a stroke. Lawrence MS, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):740-4

Expression of the apoptosis-suppressing gene BCL-2 in pheochromocytoma is associated with the expression of C-MYC. Wang DG, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1949-52

Expression of a bcl-2 transgene reduces proliferation and slows turnover of developing B lymphocytes in vivo. O'Reilly LA, et al. **J Immunol** 1997 Sep 1;159(5):2301-11

p53 and bcl-2 expression and argyrophilic nucleolar organizer regions in patients with malignant maxillary sinus tumours. Nakashima T, et al. **J Laryngol Otol** 1997 Jan; 111(1):38-42

Pharmacokinetics of G3139, a phosphorothioate oligodeoxynucleotide antisense to bcl-2, after intravenous administration or continuous subcutaneous infusion to mice. Raynaud FI, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):420-7

Correlation of bcl-2 with P-glycoprotein expression in chronic lymphocytic leukaemia and other haematological neoplasms but of neither marker with ex vivo chemosensitivity or patient survival. Bosanquet AG, et al. **Leuk Lymphoma** 1996 Dec;24(1-2):141-7

Liposomal targeting of bcl-2 antisense oligonucleotides with enhanced stability into human myeloma cell lines. Ollikainen H, et al. **Leuk Lymphoma** 1996 Dec; 24(1-2):165-74

Bcl-2 and c-myc expression, cell cycle kinetics and apoptosis during the progression of chronic myelogenous leukemia from diagnosis to blastic phase. Handa H, et al. **Leuk Res** 1997 Jun;21(6):479-89

Expression of bcl-2 by breast cancer: a possible diagnostic application. Alsabeh R, et al. **Mod Pathol** 1996 Apr; 9(4):439-44

bcl-2 expression and the development of endometrial carcinoma. Chhieng DC, et al. **Mod Pathol** 1996 Apr; 9(4):402-6

bcl-2 is down-regulated in atypical endometrial hyperplasia and adenocarcinoma. Henderson GS, et al. **Mod Pathol** 1996 Apr;9(4):430-8

Suppression of nitric oxide-induced apoptosis by N-acetyl-L-cysteine through modulation of glutathione, bcl-2, and bax protein levels. Ho YS, et al. **Mol Carcinog** 1997 Jun;19(2):101-13

Decreases in phorbol ester-induced papilloma development in v-Ha-ras transgenic TG.AC mice during reduced gene dosage of bcl-2. Trempus CS, et al. **Mol Carcinog** 1997 Sep;20(1):68-77

Molecular and cellular responses to DNA damage in a murine pituitary adenoma cell line. Woloschak M, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):61-8

Bcl-2 promotes regeneration of severed axons in mammalian CNS [see comments] Chen DF, et al. **Nature** 1997 Jan 30; 385(6615):434-9. Comment in: Nature 1997 Jan 30;385(6615):391-3.

Cell density increases Bcl-2 and Bcl-x expression in addition to survival of cultured cerebellar granule neurons. Ohga Y, et al. **Neuroscience** 1996 Aug;73(4):913-7

GRS, a novel member of the Bcl-2 gene family, is highly expressed in multiple cancer cell lines and in normal leukocytes. Kenny JJ, et al. **Oncogene** 1997 Feb 27; 14(8):997-1001

The induction of partial resistance to photodynamic therapy by the protooncogene BCL-2. He J, et al. **Photochem Photobiol** 1996 Nov;64(5):845-52

Single-copy transgenic mice with chosen-site integration [see comments] Bronson SK, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9067-72. Comment in: Proc Natl Acad Sci U S A 1996 Aug 20;93(17):8824-8.

Resistance to apoptosis in CTLL-2 cells constitutively expressing c-Myb is associated with induction of BCL-2 expression and Myb-dependent regulation of bcl-2 promoter activity. Salomoni P, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3296-301

bcl-2: antidote for cell death. Tsujimoto Y. **Prog Mol Subcell Biol** 1996;16:72-86 (80 ref.)

Development of a hammerhead ribozyme against bcl-2. I. Preliminary evaluation of a potential gene therapeutic agent for hormone-refractory human prostate cancer. Dorai T, et al. **Prostate** 1997 Sep 1;32(4):246-58

Evaluation of the BCL-2 gene locus as a susceptibility locus linked to the clinical expression of systemic lupus erythematosus (SLE). Huang QR, et al. **Rheumatol Int** 1996;16(3):121-4

Bcl-2: prolonging life in a transgenic mouse model of familial amyotrophic lateral sclerosis. Kostic V, et al. **Science** 1997 Jul 25;277(5325):559-62

Immunohistochemistry: a prognostic as well as diagnostic tool? Mehregan D, et al. **Semin Cutan Med Surg** 1996 Dec; 15(4):317-25 (85 ref.)

Overexpression of bax enhances the radiation sensitivity in human breast cancer cells. Sakakura C, et al. **Surg Today** 1997;27(1):90-3

Prevention of hypoxic liver injury by in vivo transfection of the human bcl-2 gene. Yamabe K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):384-5

Immunocytochemical and immunoelectron microscopical analysis of BCL2 expression in thyroid oxyphilic tumors. Lombardi L, et al. **Ultrastruct Pathol** 1997 Jan-Feb; 21(1):33-9

Activation of Bcl-2 expression in human endothelial cells chronically expressing the human T-cell lymphotropic virus type I. Nicot C, et al. **Virology** 1997 Sep 15; 236(1):47-53

[Expression of protooncogene bcl-2 in thyroid tumors] Zhu J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Nov; 76(11):829-31 (Eng. Abstr.) **(Chi)**

[Detection of bcl-2/JH fusion gene in patients with non-Hodgkin's lymphoma by semi-nested polymerase chain reaction] Wu K, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):152-4 (Eng. Abstr.) **(Chi)**

[Splenic lymphoma with villous lymphocytes: morphologic, immunologic and molecular study. Report of three cases (published erratum appears in Ann Pathol 1997 Apr;17(2):122)] Labouyrie E, et al. **Ann Pathol** 1996 Sep; 16(4):285-91 (Eng. Abstr.) **(Fre)**

[Apoptosis and anti-apoptosis genes in the Bcl-2 family] Dietrich JB. **Arch Physiol Biochem** 1997 Apr;105(2):125-35 (73 ref.) (Eng. Abstr.) **(Fre)**

[Predictive and prognostic significance of PCNA, p53, bcl-2 and intratumor vessel density in radiochemotherapy of advanced head and neck tumors] Grabenbauer GG. **Strahlenther Onkol** 1997 Mar;173(3):174-5 **(Ger)**

[PCR study of bcl-2 rearrangement in autologous transplantation of peripheral stem cells in follicular non-Hodgkin's lymphoma] Ataulfo González F, et al. **Med Clin (Barc)** 1997 May 17;108(19):730-3 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Down-regulation of bcl-2 in AML blasts by all-trans retinoic acid and its relationship to CD34 antigen expression. Bradbury DA, et al. **Br J Haematol** 1996 Sep;94(4):671-5

1-methyl-4-phenyl-pyridinium ion (MPP+) causes DNA fragmentation and increases the Bcl-2 expression in human neuroblastoma, SH-SY5Y cells, through different mechanisms. Itano Y, et al. **Brain Res** 1995 Dec 18; 704(2):240-45

Butyric acid and pivaloyloxymethyl butyrate, AN-9, a novel butyric acid derivative, induce apoptosis in HL-60 cells. Zimra Y, et al. **J Cancer Res Clin Oncol** 1997;123(3):152-60

Induction of apoptosis in small-cell lung cancer cells by an antisense oligodeoxynucleotide targeting the Bcl-2 coding sequence [see comments] Ziegler A, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1027-36. Comment in: J Natl Cancer Inst 1997 Jul 16;89(14):988-90.

GENETICS

The bcl-2 gene status of human head and neck cancer cell lines. Salo A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:233-6

Prognostic significance of Bcl-2 expression in localized squamous cell carcinoma of the head and neck. Friedman M, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):445-50

Bcl-2 gene family in the nervous system. Merry DE, et al. **Annu Rev Neurosci** 1997;20:245-67 (180 ref.)

Expression of p53 and bcl-2 in primary locally confined renal cell carcinomas: no evidence for prognostic significance. Hofmockel G, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3807-11

bcl-2 vs p53 protein expression and apoptotic rate in human nonmelanoma skin cancers. Wikonkal NM, et al. **Arch Dermatol** 1997 May;133(5):599-602

Bcl-2/Bax ratios in chronic lymphocytic leukaemia and their correlation with in vitro apoptosis and clinical resistance. Pepper C, et al. **Br J Cancer** 1997;76(7):935-8

Multiple bcl-2/Ig gene rearrangements in persistent polyclonal B-cell lymphocytosis. Delage R, et al. **Br J Haematol** 1997 Jun;97(3):589-95

Detection of bcl-2 rearrangement in HIV-related follicular lymphoid hyperplasia. Molina TJ, et al. **Br J Haematol** 1996 Sep;94(4):705-8

Altered expression of Bcl-2, Bcl-X, Bax, and c-Fos colocalizes with DNA fragmentation and ischemic cell damage following middle cerebral artery occlusion in rats. Gillardon F, et al. **Brain Res Mol Brain Res** 1996 Sep 1; 40(2):254-60

Bcl-xS enhances adenoviral vector-induced apoptosis in neuroblastoma cells. Dole MG, et al. **Cancer Res** 1996 Dec 15;56(24):5734-40

Bcl-2 acts subsequent to and independent of Ca2+ fluxes to inhibit apoptosis in thapsigargin- and glucocorticoid-treated mouse lymphoma cells. Distelhorst CW, et al. **Cell Calcium** 1996 Jun;19(6):473-83

Distinct patterns of Fas cell surface expression during development of T- or B-lymphocyte lineages in normal, scid, and mutant mice lacking or overexpressing p53, bcl-2, or rag-2 genes. Li T, et al. **Cell Growth Differ** 1996 Jan; 7(1):107-14

Chromosomal assignment of the Bcl2-related genes, Bcl2l and Bax, in the mouse and rat. Matsuda Y, et al. **Cytogenet Cell Genet** 1996;74(1-2):107-10

PCR analysis of IgH and BCL2 gene rearrangement in the diagnosis of follicular lymphoma in lymph node fine-needle aspiration. A critical appraisal. Aiello A, et al. **Diagn Mol Pathol** 1997 Jun;6(3):154-60

Expression of the bcl-2 gene from a defective HSV-1 amplicon vector protects pancreatic beta-cells from apoptosis. Liu Y, et al. **Hum Gene Ther** 1996 Sep 10; 7(14):1719-26

Over-expression of bcl-xL gene in human gastric adenomas and carcinomas. Kondo S, et al. **Int J Cancer** 1996 Dec 11;68(6):727-30

Retarding photoreceptor degeneration in Pdegtm1/Pdegtml mice by an apoptosis suppressor gene. Tsang SH, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):943-50

Neuroprotective action of cycloheximide involves induction of bcl-2 and antioxidant pathways. Furukawa K, et al. **J Cell Biol** 1997 Mar 10;136(5):1137-49

Apoptosis repressor genes Bcl-2 and Bcl-x-long are expressed in the rat brain following global ischemia. Chen J, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):2-10

Prognostic value of the expression of p53, bcl-2, and bax oncoproteins, and neovascularization in patients with radically resected non-small-cell lung cancer. Apolinario RM, et al. **J Clin Oncol** 1997 Jun;15(6):2456-66

Increased cerebellar Purkinje cell numbers in mice overexpressing a human bcl-2 transgene. Zanjani HS, et al. **J Comp Neurol** 1996 Oct 21;374(3):332-41

Expression of apoptosis-regulatory genes in renal proximal tubular epithelial cells exposed to high ambient glucose and in diabetic kidneys. Ortiz A, et al. **J Investig Med** 1997 Feb;45(2):50-6

Regulation of Bcl-2 gene expression by BCR-ABL is mediated by Ras. Sánchez-García I, et al. **J Mol Biol** 1997 Mar 28;267(2):225-8

BCL-2 antisense therapy in patients with non-Hodgkin lymphoma. Webb A, et al. **Lancet** 1997 Apr 19; 349(9059):1137-41

Incidence of 5' bcl-2 rearrangement in patients with B cell chronic lymphocytic leukemia from India. Parikh PM, et al. **Leuk Res** 1996 Sep;20(9):791-3

Bax accelerates staurosporine-induced but suppresses nigericin-induced neuronal cell death. Oh JH, et al. **Neuroreport** 1997 May 27;8(8):1851-6

Research helps shed light on role of apoptosis in tumor development and growth [news] **Oncology (Huntingt)** 1997 Aug;11(8):1240

African swine fever virus gene A179L, a viral homologue of bcl-2, protects cells from programmed cell death. Brun A, et al. **Virology** 1996 Nov 1;225(1):227-30

IMMUNOLOGY

Regulation of bcl-xL expression and Fas susceptibility in mouse B cells by CD40 ligation, surface IgM crosslinking and IL-4. Koizumi T, et al. **Mol Immunol** 1996 Nov; 33(16):1247-53

PHYSIOLOGY

Reciprocal expression of Bcl-2 and p53 in breast ductal carcinoma. Lee WY, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):3007-12

Selective induction of apoptosis in cancer cells by the ether lipid ET-18-OCH3 (Edelfosine): molecular structure requirements, cellular uptake, and protection by Bcl-2 and Bcl-X(L). Mollinedo F, et al. **Cancer Res** 1997 Apr 1; 57(7):1320-8

Induction of mcl1/EAT, Bcl-2 related gene, by retinoic acid or heat shock in the human embryonal carcinoma cells, NCR-G3. Umezawa A, et al. **Cell Struct Funct** 1996 Apr; 21(2):143-50

Is the regulation of apoptosis altered in smooth muscle cells of adult spontaneously hypertensive rats? Díez J, et al. **Hypertension** 1997 Mar;29(3):776-80

Induction of B cell apoptosis by co-cross-linking CD23 and sIg involves aberrant regulation of c-myc and is inhibited by bcl-2. Campbell KA, et al. **Int Immunol** 1997 Aug; 9(8):1131-40

BCL-2: the pendulum of the cell fate. Blandino G, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):3-10

BCL-2 delay apoptosis and PARP cleavage induced by NO donors in GT1-7 cells. Bonfoco E, et al. **Neuroreport** 1996 Dec 20;8(1):273-6

Regulation of Fas-dependent activation-induced T cell apoptosis by cAMP signaling: a potential role for transcription factor NF-kappa B. Ivanov VN, et al. **Oncogene** 1997 May 22;14(20):2455-64

Bcl-2 has a cell cycle inhibitory function separable from its enhancement of cell survival. Vairo G, et al. **Oncogene** 1996 Oct 3;13(7):1511-9

Complex interplay among apoptosis factors: RB, p53, E2F, TGF-beta, cell cycle inhibitors and the bcl2 gene family. Chiarugi V, et al. **Pharmacol Res** 1997 Apr;35(4):257-61 (46 ref.)

[Regulation of growth and survival of germ cells] Matsui Y. **Hum Cell** 1997 Mar;10(1):63-8 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Overexpression of bcl-2 suppresses apoptosis in the human leukemia cell line TF-1] Ito T. **Rinsho Byori** 1997 Jul; 45(7):628-37 (19 ref.) (Eng. Abstr.) **(Jpn)**

GENES, BRCA1

Mutation analysis of BRCA1 and BRCA2 in a male breast cancer population. Friedman LS, et al. **Am J Hum Genet** 1997 Feb;60(2):313-9

Recurrent germ-line BRCA1 mutations in extended African American families with early-onset breast cancer [letter] Gao Q, et al. **Am J Hum Genet** 1997 May;60(5):1233-6

A high proportion of novel mutations in BRCA1 with strong founder effects among Dutch and Belgian hereditary breast and ovarian cancer families [see comments] Peelen T, et al. **Am J Hum Genet** 1997 May;60(5):1041-9. Comment in: Am J Hum Genet 1997 May;60(5):1013-20.

Screening for 185delAG in the Ashkenazim. Richards CS, et al. **Am J Hum Genet** 1997 May;60(5):1085-98

Genetic testing for breast cancer susceptibility: awareness and interest among women in the general population. Tambor ES, et al. **Am J Med Genet** 1997 Jan 10;68(1):43-9

BRCA1 185delAG mutation in a non-Ashkenazi Jewish woman with early-onset breast and ovarian cancer [letter] Menczer J, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):731

BRCA1: genetic testing and hereditary breast and ovarian cancer. Ross DW. **Arch Pathol Lab Med** 1997 Jul; 121(7):754-5

Influence of BRCA1 mutations on nuclear grade and estrogen receptor status of breast carcinoma in Ashkenazi Jewish women. Karp SE, et al. **Cancer** 1997 Aug 1;80(3):435-41

A descriptive study of BRCA1 testing and reactions to disclosure of test results [see comments] Lynch HT, et al. **Cancer** 1997 Jun 1;79(11):2219-28. Comment in: Cancer 1997 Jun 1;79(11):2063-5; discussion 2066.

Identification of seven new BRCA1 germline mutations in Italian breast and breast/ovarian cancer families. Montagna M, et al. **Cancer Res** 1996 Dec 1;56(23):5466-9

Distinct somatic genetic changes associated with tumor progression in carriers of BRCA1 and BRCA2 germ-line mutations. Tirkkonen M, et al. **Cancer Res** 1997 Apr 1; 57(7):1222-7

Cell cycle regulation of BRCA1 messenger RNA in human breast epithelial cells. Gudas JM, et al. **Cell Growth Differ** 1996 Jun;7(6):717-23

BRCA1 expression is induced before DNA synthesis in both normal and tumor-derived breast cells. Vaughn JP, et al. **Cell Growth Differ** 1996 Jun;7(6):711-5

Short report on DNA markers at candidate loci. Two new polymorphisms in the BRCA 1 gene. Oriola J, et al. **Clin Genet** 1997 May;51(5):361-2

Developmental expression of Brca2 colocalizes with Brca1 and is associated with proliferation and differentiation in multiple tissues. Rajan JV, et al. **Dev Biol** 1997 Apr 15; 184(2):385-401

Using BRCA1 to treat cancer [news] **Environ Health Perspect** 1996 Jul;104(7):686-7

Tumour biological features of BRCA1-induced breast and ovarian cancer. Jóhannsson OT, et al. **Eur J Cancer** 1997 Mar;33(3):362-71

The majority of 22 Dutch high-risk breast cancer families are due to either BRCA1 or BRCA2. Peelen T, et al. **Eur J Hum Genet** 1996;4(4):225-30

Analysis of the BRCA1 and BRCA2 genes in sporadic meningiomas. Kirsch M, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):53-9

Patterns of allelic loss on chromosome 17 in sporadic breast carcinomas detected by fluorescent-labeled microsatellite analysis. Niederacher D, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):181-92

Targeted mutations of breast cancer susceptibility gene homologs in mice: lethal phenotypes of Brca1, Brca2, Brca1/Brca2, Brca1/p53, and Brca2/p53 nullizygous embryos. Ludwig T, et al. **Genes Dev** 1997 May 15; 11(10):1226-41

Estimating disease risks for individuals with a given family history in different populations with an application to breast cancer. Becher H, et al. **Genet Epidemiol** 1996;13(3):229-42

New nonsense mutation in the breast cancer-1 gene in a French site-specific breast cancer family. Laplace-Marieze V, et al. **Hum Mutat** 1997;9(5):474-5

Subcellular localization and analysis of apparent 180-kDa and 220-kDa proteins of the breast cancer susceptibility gene, BRCA1. Thomas JE, et al. **J Biol Chem** 1996 Nov 8;271(45):28630-5

BRCA1 mutation update and analysis [letter] Grade K, et al. **J Cancer Res Clin Oncol** 1996;122(11):702-6

Researchers expand genetic epidemiology of BRCA genes [news] Kuska B. **J Natl Cancer Inst** 1997 Jun 18; 89(12):844-5

Validation of family history of breast cancer and identification of the BRCA1 and other syndromes using a population-based cancer registry. Garber JE. **J Womens Health** 1997 Jun;6(3):349-51

Genetic testing for susceptibility to breast cancer: findings from women's focus groups. Tessaro I, et al. **J Womens Health** 1997 Jun;6(3):317-27

Recommendations for follow-up care of individuals with an inherited predisposition to cancer. II. BRCA1 and BRCA2. Cancer Genetics Studies Consortium [see comments] Burke W, et al. **JAMA** 1997 Mar 26;277(12):997-1003 (120 ref.) . Comment in: JAMA 1997 Jul 23-30;278(4):289-90; discussion 290. Comment in: JAMA 1997 Jul 23-30;278(4):290.

Benefits and risks of screening mammography in women with BRCA1 and BRCA2 mutations [letter; comment] Gilson E. **JAMA** 1997 Jul 23-30;278(4):289-90; discussion 290. Comment on: JAMA 1997 Mar 26;277(12):997-1003.

BRCA1 mutations in women with ovarian cancer [letter; comment] Shushan A, et al. **JAMA** 1997 Mar 26; 277(12):963. Comment on: JAMA 1996 Dec 11;276(22):1823-5.

Benefits and risks of screening mammography in women with BRCA1 and BRCA2 mutations [letter; comment] Vaidya JS, et al. **JAMA** 1997 Jul 23-30;278(4):290. Comment on: JAMA 1997 Mar 26;277(12):997-1003.

Differences in phenotypic expression of a new BRCA1 mutation in identical twins [letter] Diez O, et al. **Lancet** 1997 Sep 6;350(9079):713

Intraductal component and BRCA1-associated breast cancer [letter; comment] Jacquemler J, et al. **Lancet** 1996 Oct 19; 348(9034):1098. Comment on: Lancet 1996 Aug 10;348(9024):408.

Dideoxy fingerprinting assay for BRCA1 mutation analysis. Lancaster JM, et al. **Mol Carcinog** 1997 Jul;19(3):176-9

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Brunet JS, et al. **N Engl J Med** 1997 Apr 24;336(17):1256; discussion 1256-7 . Comment on: N Engl J Med 1996 Nov 7;335(19):1413-6.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Burk RD. **N Engl J Med** 1997 Apr 24;336(17):1255; discussion 1256-7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413-6.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Cannistra SA. **N Engl J Med** 1997 Apr 24;336(17):1254; discussion 1256-7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413-6.

BRCA genes--bookmaking, fortunetelling, and medical care [editorial; comment] Healy B. **N Engl J Med** 1997 May 15;336(20):1448-9. Comment on: N Engl J Med 1997 May 15;336(20):1401-8. Comment on: N Engl J Med 1997 May 15;336(20):1409-15. Comment on: N Engl J Med 1997 May 15;336(20):1416-21. Comment on: N Engl J Med 1997 May 15;336(20):1465-71.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Johannsson O, et al. **N Engl J Med** 1997 Apr 24;336(17):1255-6; discussion 1256-7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413-6.

Differential contributions of BRCA1 and BRCA2 to early-onset breast cancer [see comments] Krainer M, et al. **N Engl J Med** 1997 May 15;336(20):1416-21. Comment in: N Engl J Med 1997 May 15;336(20):1448-9.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Modan B. **N Engl J Med** 1997 Apr 24;336(17):1255; discussion 1256-7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413-6.

Genetics in clinical cancer care--the future is now [editorial; comment] Olopade OI. **N Engl J Med** 1996 Nov 7; 335(19):1455-6. Comment on: N Engl J Med 1996 Nov 7;335(19):1413-6.

Decision analysis--effects of prophylactic mastectomy and oophorectomy on life expectancy among women with BRCA1 or BRCA2 mutations [see comments] [published erratum appears in N Engl J Med 1997 Aug 7;337(6):434] Schrag D, et al. **N Engl J Med** 1997 May 15; 336(20):1465-71. Comment in: N Engl J Med 1997 May 15;336(20):1448-9.

Contribution of BRCA1 mutations to ovarian cancer. Stratton JF, et al. **N Engl J Med** 1997 Apr 17; 336(16):1125-30

The risk of cancer associated with specific mutations of BRCA1 and BRCA2 among Ashkenazi Jews [see comments] Struewing JP, et al. **N Engl J Med** 1997 May 15;336(20):1401-8. Comment in: N Engl J Med 1997 May 15;336(20):1448-9.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Whitmore SE. **N Engl J Med** 1997 Apr 24;336(17):1254-5; discussion 1256-7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413-6.

Breast cancer genes--what are the real risks? [news] Easton D. **Nat Genet** 1997 Jul;16(3):210-1

Attitudes of obstetrician-gynecologists toward DNA testing for a genetic susceptibility to breast cancer. Rowley PT, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):611-5

Genes responsible for familial breast cancer. Cornelisse CJ, et al. **Pathol Res Pract** 1996 Jul;192(7):684-93 (77 ref.)

Detection of heterozygous truncating mutations in the BRCA1 and APC genes by using a rapid screening assay in yeast. Ishioka C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2449-53

Coming to grips with genes and risk [news] Kahn P. **Science** 1996 Oct 25;274(5287):496-8

Possible function found for breast cancer genes [news] Marx G. **Science** 1997 Apr 25;276(5312):531-2

Male breast cancer in patients with a familial history of breast cancer. Akashi-Tanaka S, et al. **Surg Today** 1996; 26(12):975-9

[Familial ovarian cancer--detection of the responsible genes] Menczer J. **Harefuah** 1997 Jan 15;132(2):100-3 (41 ref.) **(Heb)**

DRUG EFFECTS

BRCA1 expression is not directly responsive to estrogen. Marks JR, et al. **Oncogene** 1997 Jan 9;14(1):115-21

GENETICS

Mammography of breast carcinoma in women who have mutations of the breast cancer gene BRCA1: initial experience. Helvie MA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1599-602

Frequently occurring germ-line mutations of the BRCA1 gene in ovarian cancer families from Russia [letter] Gayther SA, et al. **Am J Hum Genet** 1997 May;60(5):1239-42

Moderate frequency of BRCA1 and BRCA2 germ-line mutations in Scandinavian familial breast cancer [see comments] Håkansson S, et al. **Am J Hum Genet** 1997 May; 60(5):1068-78. Comment in: Am J Hum Genet 1997 May;60(5):1013-20.

Founder BRCA1 and BRCA2 mutations in Ashkenazi Jews in Israel: frequency and differential penetrance in ovarian cancer and in breast-ovarian cancer families [see comments] Levy-Lahad E, et al. **Am J Hum Genet** 1997 May;60(5):1059-67. Comment in: Am J Hum Genet 1997 May;60(5):1013-20.

Analysis of BRCA1 and BRCA2 mutations in Hungarian families with breast or breast-ovarian cancer [letter] Ramus SJ, et al. **Am J Hum Genet** 1997 May;60(5):1242-6

BRCA1 sequence variations in 160 individuals referred to a breast/ovarian family cancer clinic. Institut Curie Breast Cancer Group [see comments] Stoppa-Lyonnet D, et al. **Am J Hum Genet** 1997 May;60(5):1021-30. Comment in: Am J Hum Genet 1997 May;60(5):1013-20.

Population genetics of BRCA1 and BRCA2 [editorial; comment] Szabo CI, et al. **Am J Hum Genet** 1997 May; 60(5):1013-20. Comment on: Am J Hum Genet 1997 May;60(5):1021-30. Comment on: Am J Hum Genet 1997 May;60(5):1031-40. Comment on: Am J Hum Genet 1997 May;60(5):1041-9. Comment on: Am J Hum Genet 1997 May;60(5):1050-8. Comment on: Am J Hum Genet 1997 May;60(5):1059-67. Comment on: Am J Hum Genet 1997 May;60(5):1068-78. Comment on: Am J Hum Genet 1997 May;60(5):1079-84.

Role of BRCA1 mutation screening in the management of familial ovarian cancer. Berchuck A, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):738-46 (61 ref.)

BRCA1 polymorphisms [letter] Campbell IG, et al. **Br J Cancer** 1997;75(12):1854-5

BRCA1 5382insC mutation in sporadic and familial breast and ovarian carcinoma in Scotland. Mullen P, et al. **Br J Cancer** 1997;75(9):1377-80

Methylation of the BRCA1 gene in sporadic breast cancer. Dobrovic A, et al. **Cancer Res** 1997 Aug 15;57(16):3347-50

A BRCA1 mutant alters G2-M cell cycle control in human mammary epithelial cells. Larson JS, et al. **Cancer Res** 1997 Aug 15;57(16):3351-5

Characterization of functional messenger RNA splice variants of BRCA1 expressed in nonmalignant and tumor-derived breast cells. Lu M, et al. **Cancer Res** 1996 Oct 15;56(20):4578-81

A screening for BRCA1 mutations in breast and breast-ovarian cancer families from the Stockholm region. Zelada-Hedman M, et al. **Cancer Res** 1997 Jun 15; 57(12):2474-7

BRCA1 mutation testing: controversies and challenges [editorial; comment] Petty EM, et al. **Clin Chem** 1997 Jan;

GENES, BRCA1

43(1):6–8. Comment on: Clin Chem 1997 Jan;43(1):24–9.
Direct detection of mutations in the breast and ovarian cancer susceptibility gene BRCA1 by PCR–mediated site–directed mutagenesis [see comments] Rohlfs EM, et al. **Clin Chem** 1997 Jan;43(1):24–9. Comment in: Clin Chem 1997 Jan;43(1):6–8.
Cancer prevention, molecular genetics and hereditary cancer syndromes of colon and breast. Lynch HT, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:27–32
Complete genomic sequence and analysis of 117 kb of human DNA containing the gene BRCA1. Smith TM, et al. **Genome Res** 1996 Nov;6(11):1029–49
Mutational analysis of the BRCA1 tumor suppressor gene in endometrial carcinoma. Liu FS, et al. **Gynecol Oncol** 1997 Sep;66(3):449–53
Psychological responses to BRCA1 mutation testing: preliminary findings. Croyle RT, et al. **Health Psychol** 1997 Jan;16(1):63–72
Human, canine and murine BRCA1 genes: sequence comparison among species. Szabo CI, et al. **Hum Mol Genet** 1996 Sep;5(9):1289–98
BRCA1 mutations in German breast–cancer families. Jandrig B, et al. **Int J Cancer** 1996 Oct 9;68(2):188–92
Modifying effect of reproductive risk factors on the age at onset of breast cancer for German BRCA1 mutation carriers. Chang–Claude J, et al. **J Cancer Res Clin Oncol** 1997;123(5):272–9
BRCA1 mutations and phenotype. Grade K, et al. **J Cancer Res Clin Oncol** 1997;123(1):69–70
BCRA 1 testing guidelines for high–risk patients [letter] Sorscher S, et al. **J Clin Oncol** 1997 Apr;15(4):1711
Localization of BRCA1 gene expression in adult cynomolgus monkey tissues. Durocher F, et al. **J Histochem Cytochem** 1997 Sep;45(9):1173–88
BRCA1 mutations in a selected series of breast/ovarian cancer patients. Garvin AM, et al. **J Med Genet** 1996 Sep; 33(9):721–5
Controlled trial of pretest education approaches to enhance informed decision–making for BRCA1 gene testing. Lerman C, et al. **J Natl Cancer Inst** 1997 Jan 15; 89(2):148–57
BRCA1 sequence analysis in women at high risk for susceptibility mutations. Risk factor analysis and implications for genetic testing [see comments] Shattuck–Eidens D, et al. **JAMA** 1997 Oct 15; 278(15):1242–50. Comment in: JAMA 1997 Oct 15;278(15):1284–5.
Pathology of familial breast cancer: differences between breast cancers in carriers of BRCA1 or BRCA2 mutations and sporadic cases. Breast Cancer Linkage Consortium [see comments] **Lancet** 1997 May 24;349(9064):1505–10. Comment in: Lancet 1997 May 24;349(9064):1488–9.
Genetic mapping of the Brca1 gene on mouse chromosome 11. DeGregorio L, et al. **Mamm Genome** 1996 Mar;7(3):242
Localization of BRCA1 and a splice variant identifies the nuclear localization signal. Thakur S, et al. **Mol Cell Biol** 1997 Jan;17(1):444–52
Mutations of the BRCA1 and BRCA2 genes and the possibilities for predictive testing. Gayther SA, et al. **Mol Med Today** 1997 Apr;3(4):168–74 (36 ref.)
BRCA1 mutations in women attending clinics that evaluate the risk of breast cancer [see comments] Couch FJ, et al. **N Engl J Med** 1997 May 15;336(20):1409–15. Comment in: N Engl J Med 1997 May 15;336(20):1448–9.
Clinical and pathological features of ovarian cancer in women with germ–line mutations of BRCA1 [see comments] Rubin SC, et al. **N Engl J Med** 1996 Nov 7; 335(19):1413–6. Comment in: N Engl J Med 1996 Nov 7;336(19):1455–6. Comment in: N Engl J Med 1997 Apr 24;336(17):1254; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1254–5; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1255; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1255–6; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1256; discussion 1256–7.
Partial rescue of Brca1 (5–6) early embryonic lethality by p53 or p21 null mutation. Hakem R, et al. **Nat Genet** 1997 Jul;16(3):298–302
Ashkenazi Jewish population frequencies for common mutations in BRCA1 and BRCA2. Roa BB, et al. **Nat Genet** 1996 Oct;14(2):185–7
BRCA1 germline mutational spectrum in Italian families from Tuscany: a high frequency of novel mutations. Caligo MA, et al. **Oncogene** 1996 Oct 3;13(7):1483–8
Loss of heterozygosity in human breast carcinomas in the ataxia telangiectasia, Cowden disease and BRCA1 gene regions. Kerangueven F, et al. **Oncogene** 1997 Jan 23; 14(3):339–47
Familial breast cancer risk assessment. Johnson VP, et al. **S D J Med** 1996 Jul;49(7):217–21
[Characterization of the BRCA1 gene and its significance in hereditary breast cancer] Diez Gilbert O, et al. **Med Clin (Barc)** 1996 Nov 9;107(16):623–7 (30 ref.) **(Spa)**

GENES, CDC

see related
CELL CYCLE PROTEINS
Identification, characterization, and chromosomal organization of cell division cycle genes in Caulobacter crescentus [published erratum appears in J Bacteriol 1997 Jul;179(13):4455] Ohta N, et al. **J Bacteriol** 1997 Apr; 179(7):2169–80
Characterization of a novel CDC gene (ORC1) partly homologous to CDC6 of Saccharomyces cerevisiae. Hori Y, et al. **Mol Biol Cell** 1996 Mar;7(3):409–18
Decreased levels of the cell–cycle inhibitor p27Kip1 protein: prognostic implications in primary breast cancer [see comments] Catzavelos C, et al. **Nat Med** 1997 Feb; 3(2):227–30. Comment in: Nat Med 1997 Feb;3(2):152–4.
Increased proteasome–dependent degradation of the cyclin–dependent kinase inhibitor p27 in aggressive colorectal carcinomas [see comments] Loda M, et al. **Nat Med** 1997 Feb;3(2):231–4. Comment in: Nat Med 1997 Feb;3(2):152–4.
Expression of cell–cycle regulators p27Kip1 and cyclin E, alone and in combination, correlate with survival in young breast cancer patients [see comments] Porter PL, et al. **Nat Med** 1997 Feb;3(2):222–5. Comment in: Nat Med 1997 Feb;3(2):152–4.
Distinct classes of cdc2–related genes are differentially expressed during the cell division cycle in plants. Fobert PR, et al. **Plant Cell** 1996 Sep;8(9):1465–76

DRUG EFFECTS
Radiation–enhanced expression of interferon–inducible genes in the KG1a primitive hematopoietic cell line. Clave E, et al. **Leukemia** 1997 Jan;11(1):114–9
Arsenic–induced neural tube defects in mice: alterations in cell cycle gene expression. Wlodarczyk BJ, et al. **Reprod Toxicol** 1996 Nov–Dec;10(6):447–54

GENETICS
Cytotoxic effects of recombinant adenovirus p53 and cell cycle regulator genes (p21 WAF1/CIP1 and p16CDKN4) in human prostate cancers. Gotoh A, et al. **J Urol** 1997 Aug;158(2):636–41
Distinct roles of yeast MEC and RAD checkpoint genes in transcriptional induction after DNA damage and implications for function. Kiser GL, et al. **Mol Biol Cell** 1996 May;7(5):703–18

PHYSIOLOGY
Differential regulation of cell cycle characteristics and apoptosis in MMTV–myc and MMTV–ras mouse mammary tumors. Hundley JE, et al. **Cancer Res** 1997 Feb 15;57(4):600–3
Cell cycle regulation of the human DNA mismatch repair genes hMSH2, hMLH1, and hPMS2. Meyers M, et al. **Cancer Res** 1997 Jan 15;57(2):206–8
Expression of phenotype– and proliferation–related genes in rat aortic smooth muscle cells in primary culture. Hultgårdh–Nilsson A, et al. **Cardiovasc Res** 1997 May; 34(2):418–30

RADIATION EFFECTS
Radiation–enhanced expression of interferon–inducible genes in the KG1a primitive hematopoietic cell line. Clave E, et al. **Leukemia** 1997 Jan;11(1):114–9

GENES, CELL DIVISION CYCLE see **GENES, CDC**

GENES, CLASS I see **GENES, MHC CLASS I**

GENES, CLASS II see **GENES, MHC CLASS II**

GENES, DCC

see related
GENES, MCC
DCC: is there a connection between tumorigenesis and cell guidance molecules? Fearon ER. **Biochim Biophys Acta** 1996 Oct 9;1288(2):M17–23 (52 ref.)
Loss of DCC expression and glioma progression. Reyes–Mugica M, et al. **Cancer Res** 1997 Feb 1;57(3):382–6
Should DCC be deleted as tumor–suppressor candidate? [news] **Gastroenterology** 1997 Jul;113(1):3
DCC genetic alterations and expression in endometrial carcinoma. Ronnett BM, et al. **Mod Pathol** 1997 Jan; 10(1):38–46
Phenotype of mice lacking functional Deleted in colorectal cancer (Dcc) gene. Fazeli A, et al. **Nature** 1997 Apr 24; 386(6627):796–804
Identification and characterization of neogenin, a DCC–related gene. Meyerhardt JA, et al. **Oncogene** 1997 Mar 13;14(10):1129–36
Putative cancer gene shows up in development instead [news] Roush W. **Science** 1997 Apr 25;276(5312):534–5
Decreased expression of the DCC gene in human breast carcinoma. Wakita K, et al. **Surg Today** 1996;26(11):900–3
[Structure and function of DCC (deleted in colorectal cancer) gene and its product] Aoyama N, et al. **Nippon Rinsho** 1996 Apr;54(4):972–80 (34 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS
Frequent reduction or loss of DCC gene expression in human osteosarcoma. Horstmann MA, et al. **Br J Cancer** 1997; 75(9):1309–17
Loss of heterozygosity at the DCC gene locus is not crucial for the acquisition of metastatic potential in oesophageal squamous cell carcinoma. Maesawa C, et al. **Eur J Cancer** 1996 May;32A(5):896–8
Correlating clinical outcome with molecular events in colorectal cancer. Pasricha P. **Gastroenterology** 1997 Jul; 113(1):360–1
DCC expression and prognosis in colorectal cancer. Banerjee AK. **Lancet** 1997 Apr 5;349(9057):968
The DCC protein and prognosis in colorectal cancer [see comments] Shibata D, et al. **N Engl J Med** 1996 Dec 5; 335(23):1727–32. Comment in: N Engl J Med 1997 May 15;336(20):1456; discussion 1456–7.

PHYSIOLOGY
DCC's function takes shape in the nervous system. Kolodziej PA. **Curr Opin Genet Dev** 1997 Feb;7(1):87–92 (27 ref.)

GENES, DEVELOPMENTAL see **GENES, STRUCTURAL**

GENES, DIFFERENTIATED see **GENES, STRUCTURAL**

GENES, DOMINANT

Genetics of the nevoid basal cell carcinoma syndrome. Chidambaram A, et al. **Adv Cancer Res** 1996;70:49–61 (51 ref.)
Segregation analysis of prostate cancer in Sweden: support for dominant inheritance. Grönberg H, et al. **Am J Epidemiol** 1997 Oct 1;146(7):552–7
Dominant inheritance of isolated hypermethioninemia is associated with a mutation in the human methionine adenosyltransferase 1A gene. Chamberlin ME, et al. **Am J Hum Genet** 1997 Mar;60(3):540–6
A gene for dominant nonspecific X–linked mental retardation is located in Xq28. des Portes V, et al. **Am J Hum Genet** 1997 Apr;60(4):903–9
A gene for isolated congenital ptosis maps to a 3–cM region within 1p32–p34.1. Engle EC, et al. **Am J Hum Genet** 1997 May;60(5):1150–7
Autosomal recessive Sorsby fundus dystrophy revisited: molecular evidence for dominant inheritance. Felbor U, et al. **Am J Hum Genet** 1997 Jan;60(1):57–62
A new locus for dominant "zonular pulverulent" cataract, on chromosome 13. Mackay D, et al. **Am J Hum Genet** 1997 Jun;60(6):1474–8
Mapping one form of autosomal dominant postaxial polydactyly type A to chromosome 7p15–q11.23 by linkage analysis. Radhakrishna U, et al. **Am J Hum Genet** 1997 Mar;60(3):597–604
Genetic localization of a newly recognized autosomal dominant limb–girdle muscular dystrophy with cardiac involvement (LGMD1B) to chromosome 1q11–21. van der Kooi AJ, et al. **Am J Hum Genet** 1997 Apr;60(4):891–5
A gene for autosomal dominant nonsyndromic hearing loss (DFNA12) maps to chromosome 11q22–24. Verhoeven K, et al. **Am J Hum Genet** 1997 May;60(5):1168–73
Mapping a gene for adult–onset primary open–angle glaucoma to chromosome 3q [see comments] Wirtz MK, et al. **Am J Hum Genet** 1997 Feb;60(2):296–304. Comment in: Am J Hum Genet 1997 Feb;60(2):272–7.
A vertical (pseudodominant) pattern of inheritance in the autosomal recessive disease primary hyperoxaluria type 1: lack of relationship between genotype, enzymic phenotype, and disease severity. Hoppe B, et al. **Am J Kidney Dis** 1997 Jan;29(1):36–44 (27 ref.)
Autosomal dominant overfolding of the helices [letter] Carls FR, et al. **Am J Med Genet** 1996 Nov 11;65(4):359–60
Autosomal dominant transmission of familial laterality defects. Casey B, et al. **Am J Med Genet** 1996 Feb 2; 61(4):325–8
Family with autosomal dominant hidrotic ectodermal dysplasia: a previously unrecognised syndrome? Christianson AL, et al. **Am J Med Genet** 1996 Jun 28; 63(4):549–53
Blastogenesis dominant 1: a sequence with midline anomalies and heterotaxy. de Meeus A, et al. **Am J Med Genet** 1997 Feb 11;68(4):405–8
Agenesis of the corpus callosum in a mother and son. Inbar D, et al. **Am J Med Genet** 1997 Mar 17;69(2):152–4
Correlation between connexin 32 gene mutations and clinical phenotype in X–linked dominant Charcot–Marie–Tooth neuropathy. Ionasescu V, et al. **Am J Med Genet** 1996 Jun 14;63(3):486–91
Autosomal dominant inheritance of Brachmann–de Lange syndrome. Kozma C. **Am J Med Genet** 1996 Dec 30; 66(4):445–8 (15 ref.)
Brachmann–de Lange syndrome: autosomal dominant inheritance and male–to–male transmission. McKenney RR, et al. **Am J Med Genet** 1996 Dec 30;66(4):449–52
Mitochondrial anomalies in a Swiss family with autosomal dominant myoglobinuria. Martin–Du Pan RC, et al. **Am J Med Genet** 1997 Apr 14;69(4):365–9
Craniosynostosis, Philadelphia type: a new autosomal dominant syndrome with sagittal craniosynostosis and syndactyly of the fingers and toes. Robin NH, et al. **Am J Med Genet** 1996 Mar 15;62(2):184–91
FGFR2 mutation in clinically nonclassifiable autosomal dominant craniosynostosis with pronounced phenotypic variation. Steinberger D, et al. **Am J Med Genet** 1996 Dec 2;66(1):81–6
Weill–Marchesani syndrome––possible linkage of the autosomal dominant form to 15q21.1. Wirtz MK, et al. **Am J Med Genet** 1996 Oct 2;65(1):68–75
Confirmation of the Catania brachydactylous type of

acrofacial dysostosis: report of a second family. Wulfsberg EA, et al. **Am J Med Genet** 1996 Jun 28;63(4):554–7

Dominance and homozygosity. Zlotogora J. **Am J Med Genet** 1997 Feb 11;68(4):412–6 (28 ref.)

Familial distal arthrogryposis type I. Stoll C, et al. **Ann Genet** 1996;39(2):75–80

Multiple familial lipomatosis with polyneuropathy, an inherited dominant condition. Stoll C, et al. **Ann Genet** 1996;39(4):193–6

Autosomal dominant chronic progressive external ophthalmoplegia: a tale of two genomes [editorial; comment] Shoubridge EA. **Ann Neurol** 1996 Nov; 40(5):693–4 (15 ref.). Comment on: Ann Neurol 1996 Nov;40(5):707–13.

Periodic vestibulocerebellar ataxia, an autosomal dominant ataxia with defective smooth pursuit, is genetically distinct from other autosomal dominant ataxias. Damji KF, et al. **Arch Neurol** 1996 Apr;53(4):338–44 (42 ref.)

Spinocerebellar ataxia type 2. Genotype and phenotype in German kindreds. Schöls L, et al. **Arch Neurol** 1997 Sep; 54(9):1073–80

Ultrastructural findings in autosomal dominant drusen. Holz FG, et al. **Arch Ophthalmol** 1997 Jun;115(6):788–92 (29 ref.)

Incomplete dominance of type III hyperlipoproteinemia is associated with the rare apolipoprotein E2 (Arg136–>Ser) variant in multigenerational pedigree studies. Pocovi M, et al. **Atherosclerosis** 1996 Apr 26; 122(1):33–46

Dominant type 1 von Willebrand disease caused by mutated cysteine residues in the D3 domain of von Willebrand factor. Eikenboom JC, et al. **Blood** 1996 Oct 1; 88(7):2433–41

Erythroblastic inclusions in dominantly inherited beta thalassemias. Ho PJ, et al. **Blood** 1997 Jan 1;89(1):322–8

Molecular genetics of hereditary dystonia—mutations in the GTP cyclohydrolase I gene. Ichinose H, et al. **Brain Res Bull** 1997;43(1):35–8 (26 ref.)

Von Hippel–Lindau syndrome: hereditary cancer arising from inherited mutations of the VHL tumor suppressor gene. Humphrey JS, et al. **Cancer Treat Res** 1996;88:13–39 (81 ref.)

Setleis syndrome: autosomal recessive or autosomal dominant inheritance? al–Gazali LI, et al. **Clin Dysmorphol** 1996 Jul; 5(3):249–53

Progressive hydrocephalus in two members of a family with autosomal dominant Noonan phenotype. Henn W, et al. **Clin Dysmorphol** 1997 Apr;6(2):153–6

Absent nails, kinesogenic choreoathetosis, epilepsy and developmental delay—a new autosomal dominant disorder? Lynch SA, et al. **Clin Dysmorphol** 1997 Apr;6(2):133–8

Malignant hyperthermia susceptibility, an autosomal dominant disorder? Fagerlund TH, et al. **Clin Genet** 1997 Jun;51(6):365–9

Genetics of myoclonic and myoclonus epilepsies. Minassian BA, et al. **Clin Neurosci** 1995–96;3(4):223–35 (93 ref.)

Engrailed gene dosage determines whether certain recessive cubitus interruptus alleles exhibit dominance of the adult wing phenotype in Drosophila. Locke J, et al. **Dev Genet** 1996;19(4):340–9

Identification of naturally occurring dominant negative mutants of thyroid hormone alpha 1 and beta 1 receptors in a human hepatocellular carcinoma cell line [see comments] Lin KH, et al. **Endocrinology** 1996 Oct; 137(10):4073–81. Comment in: Endocrinology 1996 Oct;137(10):4071–2.

Elimination of motor nerve terminals in neonatal mice expressing a gene for slow wallerian degeneration (C57Bl/Wlds). Parson SH, et al. **Eur J Neurosci** 1997 Aug; 9(8):1586–92

Autosomal dominant familial Parkinson disease: older onset of age, and good response to levodopa therapy. Hasegawa K, et al. **Eur Neurol** 1997;38 Suppl 1:39–43

Clinical features of familial diffuse Lewy body disease. Ishikawa A, et al. **Eur Neurol** 1997;38 Suppl 1:34–8

Characterization of dominant lethal mutations in the yeast plasma membrane H+–ATPase gene. Portillo F. **FEBS Lett** 1997 Feb 3;402(2–3):136–40

Congenital absence of the uterus and vagina is not commonly transmitted as a dominant genetic trait: outcomes of surrogate pregnancies. Petrozza JC, et al. **Fertil Steril** 1997 Feb;67(2):387–9

Expression of a dominant–negative Wnt blocks induction of MyoD in Xenopus embryos. Hoppler S, et al. **Genes Dev** 1996 Nov 1;10(21):2805–17

A metabolic basis for dominance and recessivity. Keightley PD. **Genetics** 1996 Jun;143(2):621–5 (32 ref.)

Genetic and physical mapping of the mouse Ulnaless locus. Peichel CL, et al. **Genetics** 1996 Dec;144(4):1757–67

A new dominant retinal degeneration (Rd4) associated with a chromosomal inversion in the mouse. Roderick TH, et al. **Genomics** 1997 Jun 15;42(3):393–6

Refinement of the locus for autosomal dominant cerebellar ataxia type II to chromosome 3p21.1–14.1. Krols L, et al. **Hum Genet** 1997 Feb;99(2):225–32

Supernumerary nipples occurring together with Becker's naevus: an association involving one common paradominant trait? Urbani CE, et al. **Hum Genet** 1997 Sep; 100(3–4):388–90

Detection of four novel mutations in the porphobilinogen deaminase gene in French Caucasian patients with acute intermittent porphyria. Puy H, et al. **Hum Hered** 1996 May–Jun;46(3):177–80

Identification of a new locus for autosomal dominant non–syndromic hearing impairment (DFNA7) in a large Norwegian family. Fagerheim T, et al. **Hum Mol Genet** 1996 Aug;5(8):1187–91

A locus for autosomal dominant posterior polar cataract on chromosome 1p. Ionides AC, et al. **Hum Mol Genet** 1997 Jan;6(1):47–51

Crigler–Najjar syndrome type II is inherited both as a dominant and as a recessive trait. Koiwai O, et al. **Hum Mol Genet** 1996 May;5(5):645–7

Autosomal dominant cerulean cataract is associated with a chain termination mutation in the human beta–crystallin gene CRYBB2. Litt M, et al. **Hum Mol Genet** 1997 May; 6(5):665–8

A gene for autosomal dominant late–onset progressive non–syndromic hearing loss, DFNA10, maps to chromosome 6. O'Neill ME, et al. **Hum Mol Genet** 1996 Jun;5(6):853–6

An insertion mutation of the CHRNA4 gene in a family with autosomal dominant nocturnal frontal lobe epilepsy. Steinlein OK, et al. **Hum Mol Genet** 1997 Jun;6(6):943–7

Screening for proteins with polyglutamine expansions in autosomal dominant cerebellar ataxias. Stevanin G, et al. **Hum Mol Genet** 1996 Dec;5(12):1887–92

A gene for a dominant form of non–syndromic sensorineural deafness (DFNA11) maps within the region containing the DFNB2 recessive deafness gene. Tamagawa Y, et al. **Hum Mol Genet** 1996 Jun;5(6):849–52

A ninth locus (RP18) for autosomal dominant retinitis pigmentosa maps in the pericentromeric region of chromosome 1. Xu SY, et al. **Hum Mol Genet** 1996 Aug; 5(8):1193–7

Three keratin gene mutations account for the majority of dominant simplex epidermolysis bullosa cases within the population of Ireland. Humphries MM, et al. **Hum Mutat** 1996;8(1):57–63

New mutation in the 3'–acceptor splice site of intron 4 in the rhodopsin gene associated with autosomal dominant retinitis pigmentosa in a Basque family. Reig C, et al. **Hum Mutat** 1996;8(1):93–4

Dominant and digenic mutations in the peripherin/RDS and ROM1 genes in retinitis pigmentosa. Dryja TP, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):1972–82

Superciliary upsweep or tented eyebrows. A distinct mendelian trait. Itin PH, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):295–7 (7 ref.)

Two families with an autosomal dominant inheritance pattern for papillary carcinoma of the thyroid. Burgess JR, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):345–8

Autosomal dominant hypophosphatemic rickets/osteomalacia: clinical characterization of a novel renal phosphate–wasting disorder. Econs MJ, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):674–81

An autosomal dominant form of familial persistent hyperinsulinemic hypoglycemia of infancy, not linked to the sulfonylurea receptor locus. Kukuvitis A, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1192–4

Recurrent mutations in the vasopressin–neurophysin II gene cause autosomal dominant neurohypophyseal diabetes insipidus. Repaske DR, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2328–34

Molecular basis of autosomal dominant neurohypophyseal diabetes insipidus. Cellular toxicity caused by the accumulation of mutant vasopressin precursors within the endoplasmic reticulum. Ito M, et al. **J Clin Invest** 1997 Apr 15;99(8):1897–905

Dominance models with method R for stature of Holsteins. Misztal I, et al. **J Dairy Sci** 1997 May;80(5):975–8

Gonadotropin receptor mutations. Themmen AP, et al. **J Endocrinol** 1997 May;153(2):179–83 (33 ref.)

An apoptosis–inducing isoform of neu differentiation factor (NDF) identified using a novel screen for dominant, apoptosis–inducing genes. Grimm S, et al. **J Exp Med** 1997 Mar 17;185(6):1137–42

A glycine–to–arginine substitution in the triple–helical domain of type VII collagen in a family with dominant dystrophic epidermolysis bullosa pruriginosa. Lee JY, et al. **J Invest Dermatol** 1997 Jun;108(6):947–9

Exclusion of CAG repeat expansion as the cause of disease in autosomal dominant retinitis pigmentosa families. Keen TJ, et al. **J Med Genet** 1997 Feb;34(2):130–2

Familial autosomal dominant dopa responsive Parkinson's disease in three living generations showing extreme anticipation and childhood onset. Morrison PJ, et al. **J Med Genet** 1996 Jun;33(6):504–6

Isolated autosomal dominant type E brachydactyly: exclusion of linkage to candidate regions 2q37 and 20q13. Oude Luttikhuis ME, et al. **J Med Genet** 1996 Oct;33(10):873–6

A new family linked to the RP13 locus for autosomal dominant retinitis pigmentosa on distal 17p. Tarttelin EE, et al. **J Med Genet** 1996 Jun;33(6):518–20

Dominant selection system for use in Cryptococcus neoformans. Cox GM, et al. **J Med Vet Mycol** 1996 Nov–Dec;34(6):385–91

Is CD36 deficiency an etiology of hereditary hypertrophic cardiomyopathy? Tanaka T, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):121–7

Cardiac involvement in facio–scapulo–humeral muscular dystrophy: a family study using Thallium–201 single–photon–emission–computed tomography. Faustmann PM, et al. **J Neurol Sci** 1996 Dec;144(1–2):59–63

Muscle morphology and mitochondrial investigations of a family with autosomal dominant cerebellar ataxia and retinal degeneration mapped to chromosome 3p12–p21.1. Forsgren L, et al. **J Neurol Sci** 1996 Dec;144(1–2):91–8

Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy: study of two American families with predominant dementia. Hedera P, et al. **J Neurol Sci** 1997 Feb 27;146(1):27–33

Molecular genetics of familial spastic paraplegia: a multitude of responsible genes. Kobayashi H, et al. **J Neurol Sci** 1996 May;137(2):131–8 (40 ref.)

Autosomal dominant early onset dementia and leukoencephalopathy in a Japanese family: clinical, neuroimaging and genetic studies. Utatsu Y, et al. **J Neurol Sci** 1997 Mar 20;147(1):55–62

CADASIL: Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy. Ruchoux MM, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):947–64 (72 ref.)

Retinal degeneration in transgenic mice with photoreceptor–specific expression of a dominant–negative fibroblast growth factor receptor. Campochiaro PA, et al. **J Neurosci** 1996 Mar 1;16(5):1679–88

Nonlinear enzyme kinetics can lead to high metabolic flux control coefficients: implications for the evolution of dominance. Grossniklaus U, et al. **J Theor Biol** 1996 Oct 7;182(3):299–302

Dominance—one hundred and fifteen years after Mendel's paper. Porteous JW. **J Theor Biol** 1996 Oct 7;182(3):223–32

Eker rat model of a Mendelian dominantly inherited cancer [comment] Knudson AG. **Jpn J Cancer Res** 1997 Mar; 88(3):inside front cover. Comment on: Jpn J Cancer Res 1997 Mar;88(3):254–61.

To be or not to be a T–lymphomas, that is determined by a dominant gene Tlsm–1 in mouse models. Hiai H, et al. **Leukemia** 1997 Apr;11 Suppl 3:193–4

Chromosomal mapping and developmental study of Tattered–Hokkaido (Tdho). Seo KW, et al. **Mamm Genome** 1997 Aug;8(8):578–80

Three inherited disorders of calcium sensing. Pollak MR, et al. **Medicine (Baltimore)** 1996 May;75(3):115–23 (43 ref.)

Transformation of lithium–treated yeast cells and the selection of auxotrophic and dominant markers. Mount RC, et al. **Methods Mol Biol** 1996;53:139–45 (19 ref.)

Mapping of the FLO5 gene in saccharomyces cerevisiae. Sieiro C, et al. **Microbiologia** 1996 Sep;12(3):449–56

Adenovirus–mediated gene transfer of dominant negative ras(asn17) in 3T3L1 adipocytes does not alter insulin–stimulated P13–kinase activity or glucose transport. Gnudi L, et al. **Mol Endocrinol** 1997 Jan;11(1):67–76

Dominant mutations affecting expression of pH–regulated genes in Yarrowia lipolytica. Otero RC, et al. **Mol Gen Genet** 1996 Sep 13;252(3):311–9

Osteopenia in 37 members of seven families: analysis based on a model of dominant inheritance. Spotila LD, et al. **Mol Med** 1996 May;2(3):313–24

Childhood–onset autosomal–dominant limb–girdle muscular dystrophy with cardiac conduction block. Fang W, et al. **Muscle Nerve** 1997 Mar;20(3):286–92

Autosomal dominant centronuclear myopathy: report of a new family with clinical features simulating facioscapulohumeral syndrome. Felice KJ, et al. **Muscle Nerve** 1997 Sep;20(9):1194–6

Extensive genetic heterogeneity in the "pure" form of autosomal dominant familial spastic paraplegia (Strümpell's disease). Kobayashi H, et al. **Muscle Nerve** 1996 Nov; 19(11):1435–8

Anticipation of autosomal dominant progressive external ophthalmoplegia with hypogonadism. Melberg A, et al. **Muscle Nerve** 1996 Dec;19(12):1561–9

Familial autosomal–dominant carpal tunnel syndrome presenting in a 5–year–old–case report and review of the literature. Vadasz AG, et al. **Muscle Nerve** 1997 Mar; 20(3):376–8 (10 ref.)

A dominant–negative mutation of the growth hormone receptor causes familial short stature [letter] Ayling RM, et al. **Nat Genet** 1997 May;16(1):13–4

Autosomal dominant cerebellar ataxia (SCA6) associated with small polyglutamine expansions in the alpha 1A–voltage–dependent calcium channel. Zhuchenko O, et al. **Nat Genet** 1997 Jan;15(1):62–9

A prospective, quantitative study of the natural history of facioscapulohumeral muscular dystrophy (FSHD): implications for therapeutic trials. The FSH–DY Group. **Neurology** 1997 Jan;48(1):38–46

Autosomal dominant transmission of Dejerine–Sottas disease (HMSN III). Lynch DR, et al. **Neurology** 1997 Aug; 49(2):601–3

Unusual clinical features and early brain MRI lesions in a family with cerebral autosomal dominant arteriopathy. Malandrini A, et al. **Neurology** 1997 May;48(5):1200–3

Autosomal dominant hyaline body myopathy presenting as scapuloperoneal syndrome: clinical features and muscle pathology. Masuzugawa S, et al. **Neurology** 1997 Jan; 48(1):253–7

Autosomal dominant progressive external ophthalmoplegia with multiple deletions of mtDNA: clinical, biochemical, and molecular genetic features of the 10q–linked disease. Suomalainen A, et al. **Neurology** 1997 May;48(5):1244–53

Welander distal myopathy is not linked to other defined distal myopathy gene loci. Ahlberg G, et al. **Neuromuscul Disord** 1997 Jun;7(4):256–60

A European family with histidine 58 transthyretin mutation

in familial amyloid polyneuropathy. Goebel HH, et al. **Neuromuscul Disord** 1997 Jun;7(4):229–30

Hypokalemic periodic paralysis: an autosomal dominant muscle disorder caused by mutations in a voltage–gated calcium channel. Lapie P, et al. **Neuromuscul Disord** 1997 Jun;7(4):234–40 (68 ref.)

Early onset autosomal dominant myopathy with rigidity of the spine: a possible role for laminin beta 1? Taylor J, et al. **Neuromuscul Disord** 1997 Jun;7(4):211–6

Proximal myotonic dystrophy—a family with autosomal dominant muscular dystrophy, cataracts, hearing loss and hypogonadism: heterogeneity of proximal myotonic syndromes? Udd B, et al. **Neuromuscul Disord** 1997 Jun; 7(4):217–28

Dominance of wild–type p53–mediated transcriptional activation in breast epithelial cells. Davis P, et al. **Oncogene** 1996 Sep 19;13(6):1315–22

Sudden cardiac death in familial hypertrophic cardiomyopathy: are "benign" mutations really benign? Semsarian C, et al. **Pathology** 1997 Aug;29(3):305–8

Haplotype analysis of congenital myotonic dystrophy patients from asymptomatic DM father. Tachi N, et al. **Pediatr Neurol** 1997 May;16(4):315–8

Quantitative analysis of striped coat–color patterns in Large White—>Duroc chimeric pigs with special reference to the genetic control mechanisms of the dominant black–eyed white phenotype. Inoué K, et al. **Pigment Cell Res** 1996 Dec;9(6):289–97

Bulked segregant analysis using microsatellites: mapping of the dominant white locus in the chicken. Ruyter–Spira CP, et al. **Poult Sci** 1997 Feb;76(2):386–91

A mutation in autosomal dominant myotonia congenita affects pore properties of the muscle chloride channel. Fahlke C, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2729–34

Dominant genetic instability and sensitivity to DNA damaging agents in a mammalian cell line. Ryan AJ, et al. **Somat Cell Mol Genet** 1996 May;22(3):177–89

Neurovascular compression at the ventrolateral medulla in autosomal dominant hypertension and brachydactyly. Naraghi R, et al. **Stroke** 1997 Sep;28(9):1749–54

[Alzheimer's disease and genes] Jørgensen AL, et al. **Ugeskr Laeger** 1997 Sep 15;159(38):5648–52 (40 ref.) (Eng. Abstr.) **(Dan)**

[CADASIL (cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy)] Chabriat H, et al. **J Mal Vasc** 1996;21(5):277–82 (37 ref.) (Eng. Abstr.) **(Fre)**

[A Japanese family with probably autosomal dominant adult–onset leukodystrophy] Asahara H, et al. **Rinsho Shinkeigaku** 1996 Aug;36(8):968–72 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Mutagenic effect of nitrosodimethylurea in male mice. Induction of dominant lethal mutations and chromosome aberrations in germ cells; genotype influence on the clastogenic effect in bone marrow cells] Malashenko AM, et al. **Genetika** 1997 Apr;33(4):524–31 (Eng. Abstr.) **(Rus)**

[Mouse genes that control tumor growth and tuberculous infection] Nikonenko BV, et al. **Probl Tuberk** 1996;(1):4–5 (Eng. Abstr.) **(Rus)**

[The Robinow syndrome: a report of a family with autosomal dominant transmission] Díaz López MT, et al. **An Esp Pediatr** 1996 May;44(5):520–3 (15 ref.) **(Spa)**

GENETICS

Limb–girdle muscular dystrophy: a follow–up study of 79 patients. Mahjneh I, et al. **Acta Neurol Scand** 1996 Sep; 94(3):177–89

Oculopharyngeal muscular dystrophy in Norway. Survey of a large Norwegian family. Salvesen R, et al. **Acta Neurol Scand** 1996 Apr;93(4):281–5

Assessment of the phenotypic range seen in Doyne honeycomb retinal dystrophy. Evans K, et al. **Arch Ophthalmol** 1997 Jul;115(7):904–10

A family with autosomal dominant, non–Alzheimer's presenile dementia. Dark F. **Aust N Z J Psychiatry** 1997 Feb;31(1):139–44

The effect of apolipoprotein E genotype on expression of an autosomal dominant schizophreniform disorder with progressive dementia and neurofibrillary tangles. Tsuang D, et al. **Biol Psychiatry** 1997 Jan 15;41(2):191–5

Familial spastic paraplegia: evidence for a fourth locus. Bruyn RP, et al. **Clin Neurol Neurosurg** 1997 May;99(2):87–90

Genetics of human partial epilepsy. Berkovic SF, et al. **Curr Opin Neurol** 1997 Apr;10(2):110–4 (39 ref.)

Familial hiatus hernia and gastro–oesophageal reflux. Chana J, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):175–6

Autosomal dominant late–onset leukoencephalopathy. Clinical report of a new Italian family. Quattrocolo G, et al. **Eur Neurol** 1997;37(1):53–61 (26 ref.)

On the phenotypic overlap between "severe" oto–palato digital type II syndrome and Larsen syndrome. Variable manifestation of a single autosomal dominant gene. Alembik Y, et al. **Genet Couns** 1997;8(2):133–7

Penetrance of familial hypertrophic cardiomyopathy. Charron P, et al. **Genet Couns** 1997;8(2):107–14

Hereditary multiple benign cystic epithelioma (multiple trichoepithelioma) with onset at early age. Correa–Cerro LS, et al. **Genet Couns** 1997;8(2):83–6

Autosomal dominant congenital epiphyseal dysplasia limited to the femoral heads. Hernández A, et al. **Genet Couns** 1996;7(3):187–91

Development of a sequence characterized amplified region (SCAR) based indirect selection method for a dominant blast–resistance gene in rice. Naqvi NI, et al. **Genome** 1996 Feb;39(1):26–30

Two new cataract loci, Ccw and To3, and further mapping of the Npp and Opj cataracts in the mouse. Kerscher S, et al. **Genomics** 1996 Aug 15;36(1):17–21

A new locus for arrhythmogenic right ventricular dysplasia on the long arm of chromosome 14. Severini GM, et al. **Genomics** 1996 Jan 15;31(2):193–200

The gene responsible for autosomal dominant Doyne's honeycomb retinal dystrophy (DHRD) maps to chromosome 2p16 [published erratum appears in Hum Mol Genet 1996 Sep;5(9):1390] Gregory CY, et al. **Hum Mol Genet** 1996 Jul;5(7):1055–9

A gene for non–syndromic autosomal dominant progressive postlingual sensorineural hearing loss maps to chromosome 14q12–13. Manolis EN, et al. **Hum Mol Genet** 1996 Jul; 5(7):1047–50

Genetic mapping of autosomal dominant primary open–angle glaucoma (POAG) in Sardinia. Fossarello M, et al. **Int Ophthalmol** 1996–97;20(1–3):1–5

Use of rpsL for dominance selection and gene replacement in Streptomyces roseosporus. Hosted TJ, et al. **J Bacteriol** 1997 Jan;179(1):180–6

No evidence of genetic heterogeneity in dominant optic atrophy. Bonneau D, et al. **J Med Genet** 1995 Dec; 32(12):951–3

No founder effect in three novel Alzheimer's disease families with APP 717 Val—>Ile mutation. Clerget–darpoux. French Alzheimer's Disease Study Group. Campion D, et al. **J Med Genet** 1996 Aug;33(8):661–4

Autosomal dominant inheritance of Weaver syndrome. Fryer A, et al. **J Med Genet** 1997 May;34(5):418–9

Linkage of a medium sized Scottish autosomal dominant retinitis pigmentosa family to chromosome 7q. Mohamed Z, et al. **J Med Genet** 1996 Aug;33(8):714–5

Cluster headache is an autosomal dominantly inherited disorder in some families: a complex segregation analysis. Russell MB, et al. **J Med Genet** 1995 Dec;32(12):954–6

Hereditary geniospasm: two new families. Soland VL, et al. **Mov Disord** 1996 Nov;11(6):744–6

MRI and CT in an autosomal–dominant, adult–onset leukodystrophy. Bergui M, et al. **Neuroradiology** 1997 Jun; 39(6):423–6

Radiographic type I autosomal dominant osteopetrosis with syringohydromyelia. Sari A, et al. **Neuroradiology** 1996 Aug;38(6):532–3

Patients with polycystic kidney disease would benefit from routine magnetic resonance angiographic screening for intracerebral aneurysms: a decision analysis. Butler WE, et al. **Neurosurgery** 1996 Mar;38(3):506–15; discussion 515–6

Autosomal dominantly inherited Diamond–Blackfan anemia resulting in nonimmune hydrops. Rogers BB, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):805–7

A mild phenotype of autosomal dominant retinitis pigmentosa is associated with the rhodopsin mutation Pro–267–Leu. Ponjavic V, et al. **Ophthalmic Genet** 1997 Jun;18(2):63–70

Autosomal dominant cornea plana: clinical findings in a Cuban family and a review of the literature. Sigler–Villanueva A, et al. **Ophthalmic Genet** 1997 Jun; 18(2):55–62 (23 ref.)

Startle disease—hyperekplexia (two sibling cases). Altunbaşak S, et al. **Seizure** 1996 Dec;5(4):313–5

[CADASIL: 2 case reports of hereditary multi–infarct dementia] Otto V, et al. **Fortschr Neurol Psychiatr** 1997 Feb;65(2):90–5 (Eng. Abstr.) **(Ger)**

[Nail–patella syndrome] Wildfeuer T, et al. **Hautarzt** 1996 Nov;47(11):860–2 (Eng. Abstr.) **(Ger)**

[Butterfly–shaped dystrophy of the macula] Behrendt S, et al. **Klin Monatsbl Augenheilkd** 1996 Jul;209(1):51–2 (Eng. Abstr.) **(Ger)**

[Familial nocturnal frontal lobe epilepsy. Clinical aspects and genetics] Steinlein O. **Nervenarzt** 1996 Oct;67(10):870–4 (Eng. Abstr.) **(Ger)**

[Hereditary pancreatitis is due to a mutation of the cationic trypsinogen gene] Niederau C, et al. **Z Gastroenterol** 1997 May;35(5):363–5 **(Ger)**

[Analyses of dominant mutations and their phenotypes: unraveling of physiological functions of retinoid and identification of the responsible gene for Machado–Joseph disease] Kakizuka A. **Seikagaku** 1997 Feb;69(2):87–103 (51 ref.) **(Jpn)**

GENES, ENV

Independent evolution of the env and pol genes of HIV–1 during zidovudine therapy. Brown AJ, et al. **AIDS** 1996 Sep;10(10):1067–73

An efficient method for the rescue and analysis of functional HIV–1 env genes: evidence for recombination in the vicinity of the tat/rev splice site. Douglas NW, et al. **AIDS** 1996 Jan;10(1):39–46

Distribution of HIV–1 subtypes seen in an AIDS clinic in Sao Paulo City, Brazil. Sabino EC, et al. **AIDS** 1996 Nov; 10(13):1579–84

Evaluation of oligonucleotide probes for the determination of the two major HIV–1 env subtypes in Thailand. Subbarao S, et al. **AIDS** 1996 Mar;10(3):350–1

Phylogenetic analysis of the env gene of HIV–1 isolates taking into account individual nucleotide substitution rates. Van de Peer Y, et al. **AIDS** 1996 Nov;10(13):1485–94

Production of doughnut–shaped, protease–defective particles from a human T cell clone carrying a provirus with specific mutations in the env, pol, vpr, and nef genes. Bahmani MK, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10; 13(6):523–6

Complex mosaic structure of the partial envelope sequence from a Gambian HIV type 1 isolate. Bobkov A, et al. **AIDS Res Hum Retroviruses** 1996 Jan 20;12(2):169–171

Molecular studies of visna virus gene expression: analysis of envelope gene expression in transgenic sheep. Clements JE, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):421–3 (65 ref.)

Mutations in the vpu, env, and nef genes of a syncytium–inducing variant of HIV type 1 JR–CSF that infects a range of T cell lines. Klasse PJ, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):347–50

Generation of lymphocyte cell lines coexpressing CD4 and wild–type or mutant HIV type 1 glycoproteins: implications for HIV type 1 Env–induced cell lysis. Krüger U, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10; 12(9):783–92

A model for alignment of Env V1 and V2 hypervariable domains from human and simian immunodeficiency viruses. Lamers SL, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10;12(12):1169–78

Molecular characterization of field isolates of lentiviruses of small ruminants. Leroux C, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):427–9 (27 ref.)

Sequence analysis of an HIV type 1 env subtype E isolate from Thailand with discordant V3–loop serotyping. Louisirirotchanakul S, et al. **AIDS Res Hum Retroviruses** 1997 Jun 10;13(9):807–9

Env gene characterization of the first HIV type 1 group O Spanish isolate. Mas A, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20;12(17):1647–9

Expression of HIV env gene in a human T cell line for a rapid and quantifiable cell fusion assay. Moir S, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):811–20

Distinct but related human immunodeficiency virus type 1 variant populations in genital secretions and blood. Overbaugh J, et al. **AIDS Res Hum Retroviruses** 1996 Jan 20;12(2):107–15

env gene diversity of HIV type 1 isolates from Spain. Quiñones–Mateu ME, et al. **AIDS Res Hum Retroviruses** 1996 Jul 1;12(10):955–7

Point mutant frequencies in the pol gene of human immunodeficiency virus type 1 are two– to threefold lower than those of env. Quiñones–Mateu ME, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10;12(12):1117–28

Human immunodeficiency virus type 1 molecular evolution and the measure of selection. Rodrigo AG, et al. **AIDS Res Hum Retroviruses** 1996 Dec 10;12(18):1681–5

V3 region genotyping of HIV isolates in northern Uganda: heteroduplex mobility assay, nucleotide sequence and phylogenetic analysis. Italian–Ugandan Cooperation AIDS Program. Buonaguro FM, et al. **Antibiot Chemother** 1996; 48:39–48

HIV–1 proviral DNA sequences of env gp41 PCR amplificates from Tanzania. Holm–Hansen C, et al. **APMIS** 1996 Jun;104(6):459–64

Phylogenetic analysis of feline immunodeficiency virus isolated from cats in Taiwan. Inada G, et al. **Arch Virol** 1997;142(7):1459–67

Quasispecies and naturally occurring superinfection in feline immunodeficiency virus infection. Kyaw–Tanner MT, et al. **Arch Virol** 1996;141(9):1703–13

Sequence analysis of pre–S/S gene of hepatitis B virus strains of genotypes A, D, and F isolated in Brazil. Moraes MT, et al. **Arch Virol** 1996;141(9):1767–73

Mutations in the SIV env and the M13 lacZa gene generated in vitro by reverse transcriptases and DNA polymerases. Stuke AW, et al. **Arch Virol** 1997;142(6):1139–54

Inhibition of HIV–1 Rev–RRE interaction by diphenylfuran derivatives. Ratmeyer L, et al. **Biochemistry** 1996 Oct 22; 35(42):13689–96

Specificity of aminoglycoside binding to RNA constructs derived from the 16S rRNA decoding region and the HIV–RRE activator region. Wang Y, et al. **Biochemistry** 1997 Jan 28;36(4):768–79

Inhibition of Rev.RRE complexation by triplex tethered oligonucleotide probes. Moses AC, et al. **Bioorg Med Chem** 1997 Jun;5(6):1123–9

Production of env–deficient rous sarcoma virus (RSV) early after infection. Hara H, et al. **Folia Biol (Praha)** 1997; 43(2):63–70

Replication–competent retrovirus produced by a 'split–function' third generation amphotropic packaging cell line. Chong H, et al. **Gene Ther** 1996 Jul;3(7):624–9

Intracellular inhibition of HIV–1 replication using a dual protein– and RNA–based strategy. Duan L, et al. **Gene Ther** 1997 Jun;4(6):533–43

Expression and immunogenicity in rats of recombinant adenovirus 5 DNA plasmids and vaccinia virus containing the HTLV–I env gene. Kazanji M, et al. **Int J Cancer** 1997 Apr 10;71(2):300–7

Expression and processing of the human immunodeficiency virus type 1 envelope glycoprotein. Chen SS. **Intervirology** 1996;39(4):242–8

Genetic diversity of Argentine isolates of feline immunodeficiency virus. Pecoraro MR, et al.

J Gen Virol 1996 Sep;77 (Pt 9):2031-5
Improved in situ hybridization to HIV with RNA probes derived from PCR products. Cone RW, et al. J Histochem Cytochem 1997 May;45(5):721-7
Molecular subtyping of human T-lymphotropic virus type I (HTLV-I) by a nested polymerase chain reaction-restriction fragment length polymorphism analysis of the envelope gene: two distinct lineages of HTLV-I in Taiwan. Yang YC, et al. J Med Virol 1997 Jan; 51(1):25-31
A dynamic in vivo view of the HIV-I Rev-RRE interaction. Charpentier B, et al. J Mol Biol 1997 Mar 14;266(5):950-62
Structural change in Rev responsive element RNA of HIV-1 on binding Rev peptide. Peterson RD, et al. J Mol Biol 1996 Dec 20;264(5):863-77
Development of pathological lesions in the central nervous system of transgenic mice expressing the env gene of ts1 Moloney murine leukemia virus in the absence of the viral gag and pol genes and viral replication. Yu YE, et al. J Neurovirol 1997 Aug;3(4):274-82
Genetic diversity of feline immunodeficiency virus: dual infection, recombination, and distinct evolutionary rates among envelope sequence clades. Bachmann MH, et al. J Virol 1997 Jun;71(6):4241-53
Characterization of the functional properties of env genes from long-term survivors of human immunodeficiency virus type 1 infection. Connor RI, et al. J Virol 1996 Aug; 70(8):5306-11
Mother-to-infant transmission of human immunodeficiency virus type 1 involving five envelope sequence subtypes. Contag CH, et al. J Virol 1997 Feb;71(2):1292-300
Human immunodeficiency virus type 1 subtypes defined by env show high frequency of recombinant gag genes. The UNAIDS Network for HIV Isolation and Characterization. Cornelissen M, et al. J Virol 1996 Nov;70(11):8209-12
Slower evolution of human immunodeficiency virus type 1 quasispecies during progression to AIDS. Delwart EL, et al. J Virol 1997 Oct;71(10):7498-508
Human immunodeficiency virus type 1 intersubtype (B/E) recombination in a superinfected chimpanzee. Fultz PN, et al. J Virol 1997 Oct;71(10):7990-5
Human immunodeficiency virus type 1 genetic evolution in children with different rates of development of disease. Ganeshan S, et al. J Virol 1997 Jan;71(1):663-77
A molecularly cloned, pathogenic, neutralization-resistant simian immunodeficiency virus, SIVsmE543-3. Hirsch V, et al. J Virol 1997 Feb;71(2):1608-20
Investigation of the dynamics of the spread of human immunodeficiency virus to brain and other tissues by evolutionary analysis of sequences from the p17gag and env genes. Hughes ES, et al. J Virol 1997 Feb;71(2):1272-80
The cytopathicity of a simian immunodeficiency virus Mne variant is determined by mutations in Gag and Env. Kimata JT, et al. J Virol 1997 Oct;71(10):7629-39
Tempo and mode of nucleotide substitutions in gag and env gene fragments in human immunodeficiency virus type 1 populations with a known transmission history. Leitner T, et al. J Virol 1997 Jun;71(6):4761-70
Evolution of human immunodeficiency virus type 1 env sequence variation in patients with diverse rates of disease progression and T-cell function. McDonald RA, et al. J Virol 1997 Mar;71(3):1871-9
Molecular epidemiology of 58 new African human T-cell leukemia virus type 1 (HTLV-1) strains: identification of a new and distinct HTLV-1 molecular subtype in Central Africa and in Pygmies. Mahieux R, et al. J Virol 1997 Feb; 71(2):1317-33
cis-Acting inhibitory elements within the pol-env region of human T-cell leukemia virus type 1 possibly involved in viral persistence. Saiga A, et al. J Virol 1997 Jun; 71(6):4485-94
Evolution of human immunodeficiency virus type 1 in perinatally infected infants with rapid and slow progression to disease. Salvatori F, et al. J Virol 1997 Jun; 71(6):4694-706
Defective herpes simplex virus type 1 vectors harboring gag, pol, and env genes can be used to rescue defective retrovirus vectors. Savard N, et al. J Virol 1997 May; 71(5):4111-7
Single-tube heminested PCR coupled with 'touchdown' PCR for the analysis of the walleye dermal sarcoma virus env gene. Zhang Z, et al. J Virol Methods 1996 Jun;60(1):29-37
Mutational analysis of the structure-function relationship of the leukemogenic membrane glycoprotein (GP55) of Friend spleen focus-forming virus (F-SFFV). Amanuma H, et al. Leukemia 1997 Apr;11 Suppl 3:160-1
Genetic variation within human immunodeficiency viruses generates rapid changes in tropism, virulence, and transmission. Essex M, et al. Leukemia 1997 Apr;11 Suppl 3:93-4
SIV/HIV-1 chimeric viruses having HIV-1 env gene: a new animal model and a candidate for attenuated live vaccine. Hayami M, et al. Leukemia 1997 Apr;11 Suppl 3:95-7
Pathogenesis of Friend leukemia virus. Ikawa Y. Leukemia 1997 Apr;11 Suppl 3:152-4
Factors affecting induction of neurological disorder in mice by PVC viruses and the sequence of env-LTR region of PVC441. Kai K, et al. Leukemia 1997 Apr;11 Suppl 3:236-8
Substitutions T-->C 4783 and T-->C 6569 in the pol and env genes of HTLV-I are characteristic for the isolates originating in the Middle East. Voevodin A. Leukemia 1997 Apr;11 Suppl 3:52-3
HTLV-I env-pX transgenic rats: prototype animal model for collagen vascular diseases. Yamazaki H, et al. Leukemia 1997 Apr;11 Suppl 3:258-9
Models of HTLV-I-induced diseases. Infectious transmission of HTLV-I in inbred rats and HTVL-I env-pX transgenic rats. Yoshiki T, et al. Leukemia 1997 Apr;11 Suppl 3:245-6
Genetic control of immune responses to HIV-1 env DNA vaccine. Ishii N, et al. Microbiol Immunol 1997;41(5):421-5
Accurate reconstruction of a known HIV-1 transmission history by phylogenetic tree analysis. Leitner T, et al. Proc Natl Acad Sci U S A 1996 Oct 1;93(20):10864-9
Potent, protective anti-HIV immune responses generated by bimodal HIV envelope DNA plus protein vaccination. Letvin NL, et al. Proc Natl Acad Sci U S A 1997 Aug 19;94(17):9378-83
Production of infectious recombinant Moloney murine leukemia virus particles in BHK cells using Semliki Forest virus-derived RNA expression vectors. Li KJ, et al. Proc Natl Acad Sci U S A 1996 Oct 15;93(21):11658-63
The mouse mammary tumor virus env gene is the source of a CD8+ T-cell-stimulating peptide presented by a major histocompatibility complex class I molecule in a murine thymoma. Malarkannan S, et al. Proc Natl Acad Sci U S A 1996 Nov 26;93(24):13991-6
A clearer distinction between HIV-1 paired isolates from peripheral blood mononuclear cells of asymptomatic carriers with and without CD8+ T-cells at nef rather than env V3 loci. Zhong Q, et al. Vaccine 1997 Apr; 15(5):497-510
Comparison of in vitro and in vivo infectivity of different clade B HIV-1 envelope chimeric simian/human immunodeficiency viruses in Macaca mulatta. Bogers WM, et al. Virology 1997 Sep 15;236(1):110-7
Characterization of Rev function using subgenomic and genomic constructs in T and COS cells. Favaro JP, et al. Virology 1997 Feb 3;228(1):29-38
Role of Mason-Pfizer monkey virus (MPMV) constitutive transport element (CTE) in the propagation of MPMV vectors by genetic complementation using homologous/heterologous env genes. Rizvi TA, et al. Virology 1996 Oct 15;224(2):517-32
Definition of the RRE binding and activation domains of the caprine arthritis encephalitis virus Rev protein. Schoborg RV, et al. Virology 1996 Dec 1;226(1):113-21
Identification of HIV-1 determinants for replication in vivo. Su L, et al. Virology 1997 Jan 6;227(1):45-52
Analysis of mutations within the cytoplasmic domain of the Moloney murine leukemia virus transmembrane protein. Thomas A, et al. Virology 1997 Jan 20;227(2):305-13
Characterization of a novel baboon virus closely resembling human T-cell leukemia virus. Vincent MJ, et al. Virology 1996 Dec 1;226(1):57-65
Endogenous env elements: partners in generation of pathogenic feline leukemia viruses. Roy-Burman P. Virus Genes 1995;11(2-3):147-61 (107 ref.)
[Development of collagen vascular diseases and production of autoantibodies in HTLV-I env-pX transgenic rats] Yamazaki H. Hokkaido Igaku Zasshi 1996 May; 71(3):325-43 (Eng. Abstr.) (Jpn)
[Comparative analysis of the sequenced fragment of the Macaca arctoides STLV-1 env gene encoding the immunodominant region gp46 and the similar fragments in HTLV-1 (ATK) and STLV-1 from various primate species] Chikobava MG, et al. Biull Eksp Biol Med 1997 Jul;124(7):92-6 (Rus)

DRUG EFFECTS

Modulation of the Rev-RRE interaction by aromatic heterocyclic compounds. Zapp ML, et al. Bioorg Med Chem 1997 Jun;5(6):1149-55

GENETICS

Evolution of the V1 and V2 domains of the HIV-2 env gene in healthy but persistently infected macaques [letter] Bäyon-Auboyer MH, et al. AIDS 1996 Feb;10(2):229-30
Genetic and phylogenetic analysis of HIV type 1 env subtypes in Ghana, west Africa. Ishikawa K, et al. AIDS Res Hum Retroviruses 1996 Nov 1;12(16):1575-8
Analysis of HIV-1 env gene sequences reveals evidence for a low effective number in the viral population. Brown AJ. Proc Natl Acad Sci U S A 1997 Mar 4;94(5):1862-5
Role REVersal: understanding how RRE RNA binds its peptide ligand. Grate D, et al. Structure 1997 Jan 15; 5(1):7-11 (23 ref.)
Genetic characterization of two phenotypically distinct North American ovine lentiviruses and their possible origin from caprine arthritis-encephalitis virus. Karr BM, et al. Virology 1996 Nov 1;225(1):1-10
Molecular characterization of a variant of proviral bovine leukaemia virus (BLV). Molteni E, et al. Zentralbl Veterinarmed [B] 1996 Jun;43(4):201-11

IMMUNOLOGY

Protection against mucosal SIVsm challenge in macaques infected with a chimeric SIV that expresses HIV type 1 envelope. Quesada-Rolander M, et al. AIDS Res Hum Retroviruses 1996 Jul 20;12(11):993-9
A wide spectrum of collagen vascular and autoimmune diseases in transgenic rats carrying the env-pX gene of human T lymphocyte virus type I. Yamazaki H, et al. Int Immunol 1997 Feb;9(2):339-46
Induction of bovine leukaemia virus Env-specific Th-1 type immunity in mice by vaccination with short synthesized peptide-liposome. Ohishi K, et al. Vaccine 1996 Aug; 14(12):1143-8

GENES, EPISTATIC see EPISTASIS, GENETIC

GENES, ERBA

see related
ONCOGENE PROTEINS V-ERBA
RECEPTORS, THYROID HORMONE

Deoxyribonucleic acid binding and transcriptional silencing by a truncated c-erbA beta 1 thyroid hormone receptor identified in a severely retarded patient with resistance to thyroid hormone. Behr M, et al. J Clin Endocrinol Metab 1997 Apr;82(4):1081-7
Expression of c-erbA alpha, c-erbA beta and Rev-erbA alpha mRNA during the conversion of brown adipose tissue into white adipose tissue. Reyne Y, et al. Mol Cell Endocrinol 1996 Jan 15;116(1):59-65

GENETICS

Post-transcriptional induction of beta 1-adrenergic receptor by retinoic acid, but not triiodothyronine, in C6 glioma cells expressing thyroid hormone receptors [see comments] López-Barahona M, et al. Eur J Endocrinol 1996 Dec; 135(6):709-15. Comment in: Eur J Endocrinol 1996 Dec;135(6):651-2.

PHYSIOLOGY

v-erbA oncogene induces invasiveness and anchorage-independent growth in cultured glial cells by mechanisms involving platelet-derived growth factor. Llanos S, et al. Cell Growth Differ 1996 Mar;7(3):373-82

GENES, ERBA-ALPHA see GENES, ERBA

GENES, ERBA-BETA see GENES, ERBA

GENES, ERBB

Molecular approaches to diagnosis and management of ovarian cancer. Katso RM, et al. Cancer Metastasis Rev 1997 Jun;16(1-2):81-107 (268 ref.)
Differential expression of the erbB2 gene in the periimplantation mouse uterus: potential mediator of signaling by epidermal growth factor-like growth factors. Lim H, et al. Endocrinology 1997 Mar;138(3):1328-37
Amplification of ERBB oncogenes in squamous cell carcinomas of the head and neck. Rodrigo JP, et al. Eur J Cancer 1996 Oct;32A(11):2004-10
[Overexpression of C-erbB3 in transitional cell carcinoma of the ovary] Shen K, et al. Chung Hua Fu Chan Ko Tsa Chih 1995 Nov;30(11):658-61 (Eng. Abstr.) (Chi)

GENETICS

Competitive-differential polymerase chain reaction for gene dosage estimation of erbB-1 (egfr), erbB-2, and erbB-3 oncogenes. Roetger A, et al. DNA Cell Biol 1997 Apr; 16(4):443-8

GENES, ERBB-1

see related
ONCOGENE PROTEINS V-ERBB
RECEPTORS, EPIDERMAL GROWTH
FACTOR-UROGASTRONE

GENES, ERBB-2

see related
ONCOGENE PROTEINS V-ERBB
PROTO-ONCOGENE PROTEINS C-ERBB-2
RECEPTORS, EPIDERMAL GROWTH
FACTOR-UROGASTRONE

The differential expression of the HER-2/neu oncogene among high-risk human papillomavirus-infected glandular lesions of the uterine cervix. Roland PY, et al. Am J Obstet Gynecol 1997 Jul;177(1):133-8
The erbB oncogenes as prognostic markers in oral squamous cell carcinomas. Werkmeister R, et al. Am J Surg 1996 Dec;172(6):681-3
Nonisotopic quantitation of mRNA using a novel RNase protection assay: measurement of erbB-2 mRNA in tumor cell lines. Chan SD, et al. Anal Biochem 1996 Nov 15; 242(2):214-20
Inhibition of erbB-2-positive breast cancer cell growth by erbB-2 antisense oligonucleotides. Liu X, et al. Antisense Nucleic Acid Drug Dev 1996 Spring;6(1):9-16
Molecular cloning of human GRB-7 co-amplified with CAB1 and c-ERBB-2 in primary gastric cancer. Kishi T, et al. Biochem Biophys Res Commun 1997 Mar 6;232(1):5-9
Classical gene amplifications in human breast cancer are not associated with distant solid metastases. Driouch K, et al. Br J Cancer 1997;76(6):784-7
Amplifications of oncogene erbB-2 and chromosome 20q in breast cancer determined by differentially competitive polymerase chain reaction. Deng G, et al. Breast Cancer Res Treat 1996;40(3):271-81

GENES, ERBB-2

Correlation of cervical carcinoma c-erb B-2 oncogene with cell proliferation parameters in patients treated with radiation therapy for cervical carcinoma. Nakano T, et al. **Cancer** 1997 Feb 1;79(3):513–20

Gene amplification of int-2 and erbB in human esophageal cancer: relationship to clinicopathological variables. Suzuki H, et al. **Cancer Invest** 1997;15(5):411–5

Overexpression of the c-erbB-2 gene enhanced intrinsic metastasis potential in human breast cancer cells without increasing their transformation abilities. Tan M, et al. **Cancer Res** 1997 Mar 15;57(6):1199–205

Specific oncological contribution of cathepsin D and pS2 in human breast cancer: their relationship with TNM status, estradiol receptors, epidermal growth factor receptor and neu amplification. Bolufer P, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):89–103

Prognostic significance of c-erbB-2/neu amplification and epidermal growth factor receptor (EGFR) in primary breast cancer and their relation to estradiol receptor (ER) status. Torregrosa D, et al. **Clin Chim Acta** 1997 Jun 27; 262(1–2):99–119

Isolation of human anti-c-erbB-2 Fabs from a lymph node-derived phage display library. Clark MA, et al. **Clin Exp Immunol** 1997 Jul;109(1):166–74

Clinicopathologic analysis of k-ras, p53, and ERBB-2 gene alterations in pulmonary adenocarcinoma. Visscher DW, et al. **Diagn Mol Pathol** 1997 Feb;6(1):64–9

Identification of a specific DNA region required for enhanced transcription of HER2/neu in the MDA-MB453 breast cancer cell line. Miller SJ, et al. **DNA Cell Biol** 1996 Sep;15(9):749–57

Analysis of c-erbB-2 amplification in salivary gland tumours by differential polymerase chain reaction. Birek C, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):47–50

Overexpression of the oncogene c-erbB-2 (HER2/neu) in ovarian cancer: a new prognostic factor. Meden H, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):173–9 (36 ref.)

Target length and primer concentration affect the gain of c-erbB2 and p53 amplicons. Sundfors CH, et al. **FASEB J** 1997 Sep;11(11):897–903

The expression of p185(HER-2/neu) correlates with the stage of disease and survival in colorectal cancer. Kapitanović S, et al. **Gastroenterology** 1997 Apr; 112(4):1103–13

Suicide gene expression induced in tumour cells transduced with recombinant adenoviral, retroviral and plasmid vectors containing the ERBB2 promoter. Ring CJ, et al. **Gene Ther** 1996 Dec;3(12):1094–103

ERBB2 and chromosome 17 centromere studies of ovarian cancer by fluorescence in situ hybridization. Young SR, et al. **Genes Chromosomes Cancer** 1996 Jun;16(2):130–7

HER-2/neu gene amplification status in prostate cancer by fluorescence in situ hybridization. Ross JS, et al. **Hum Pathol** 1997 Jul;28(7):827–33

Inhibition of tumorigenicity in lung adenocarcinoma cells by c-erbB-2 antisense expression. Casalini P, et al. **Int J Cancer** 1997 Aug 7;72(4):631–6

Regulation of the ERBB-2 promoter by RBPJkappa and NOTCH. Chen Y, et al. **J Biol Chem** 1997 May 30; 272(22):14110–4

The erbB 2 oncogene and chemotherapy: a mini-review. Torre EA, et al. **J Chemother** 1997 Feb;9(1):51–5 (46 ref.)

Amplification of c-erbB-2 proto-oncogene in cancer foci, adjacent normal, metastatic and normal tissues of human primary gastric adenocarcinomas. Kim JS, et al. **J Korean Med Sci** 1997 Aug;12(4):311–5

Low frequency of ErbB-2 proto-oncogene overexpression in human leukocyte antigen-A2-positive breast cancer patients. Nisticò P, et al. **J Natl Cancer Inst** 1997 Feb 19; 89(4):319–21

The role of the HER-2/neu oncogene in gynecologic cancers. Cirisano FD, et al. **J Soc Gynecol Investig** 1996 May-Jun;3(3):99–105 (54 ref.)

Retrospective evaluation of c-erbB-2 oncogene amplification using competitive PCR in collecting duct carcinoma of the kidney. Selli C, et al. **J Urol** 1997 Jul;158(1):245–7

Sp1 binding plays a critical role in Erb-B2- and v-ras-mediated downregulation of alpha2-integrin expression in human mammary epithelial cells. Ye J, et al. **Mol Cell Biol** 1996 Nov;16(11):6178–89

An intron 1 enhancer element mediates oestrogen-induced suppression of ERBB2 expression. Bates NP, et al. **Oncogene** 1997 Jul 24;15(4):473–81

A family of AP-2 proteins regulates c-erbB-2 expression in mammary carcinoma. Bosher JM, et al. **Oncogene** 1996 Oct 17;13(8):1701–7

Mapping of adenovirus 5 E1A domains responsible for suppression of neu-mediated transformation via transcriptional repression of neu. Chen H, et al. **Oncogene** 1997 Apr 24;14(16):1965–71

Expression of the calcium-binding protein S100A4 (p9Ka) in MMTV-neu transgenic mice induces metastasis of mammary tumours. Davies MP, et al. **Oncogene** 1996 Oct 17;13(8):1631–7

The genetic penetrance of the activated neu oncogene for the induction of mammary cancer in vivo. Tai YT, et al. **Oncogene** 1997 Jun 5;14(22):2701–7

Chemosensitization of HER-2/neu-overexpressing human breast cancer cells to paclitaxel (Taxol) by adenovirus type 5 E1A. Ueno NT, et al. **Oncogene** 1997 Aug 18;15(8):953–60

HER-2/neu expression in pancreatic adenocarcinoma: relation to tumor differentiation and survival. Dugan MC, et al. **Pancreas** 1997 Apr;14(3):229–36

Constitutive receptor activation by Crouzon syndrome mutations in fibroblast growth factor receptor (FGFR)2 and FGFR2/Neu chimeras. Galvin BD, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7894–9

[Effects of recombinant human tumor necrosis factor on the development of ascitic tumor and expression of c-erbB2 in the nude mouse models of ovarian cancer] Yin D, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 May;31(5):291–2 (Eng. Abstr.) **(Chi)**

[Relationship between c-erbB-2 oncoprotein expression and prognosis in salivary gland malignant pleomorphic adenoma] Yan Y, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Nov; 30(6):326–8, 383 (Eng. Abstr.) **(Chi)**

[Immunohistochemical study of oncogene c-erbb-2 expression and extracellular matrix proteins in breast cancer (various mechanisms of invasion)] Pozharisskiĭ KM, et al. **Arkh Patol** 1997 Jul-Aug;59(4):19–25 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Neu differentiation factor induces ErbB2 down-regulation and apoptosis of ErbB2-overexpressing breast tumor cells. Daly JM, et al. **Cancer Res** 1997 Sep 1;57(17):3804–11

GENETICS

erbB-2 knockout employing an intracellular single-chain antibody (sFv) accomplishes specific toxicity in erbB-2-expressing lung cancer cells. Grim J, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):348–54

Amplification in tumors and benign tissue of breast cancer patients. Yazici H, et al. **Cancer Lett** 1996 Oct 22; 107(2):235–9

Isolation of a candidate gene, CAB1, for cholesterol transport to mitochondria from the c-ERBB-2 amplicon by a modified cDNA selection method. Akiyama N, et al. **Cancer Res** 1997 Aug 15;57(16):3548–53

Detection of the metastatic potential of blood-borne and immunomagnetically enriched epithelial cells by quantitative erbB-2 RT-PCR. Brandt B, et al. **Clin Exp Metastasis** 1996 Sep;14(4):399–408

Variations in c-erbB-2 proto-oncogene status in breast cancer tumors as detected by two different cDNA probes. Pegoraro RJ, et al. **Diagn Mol Pathol** 1996 Sep;5(3):181–6

Aberrant FGF-2, FGF-3, FGF-4 and C-erb-B2 gene copy number in human ovarian, breast and endometrial tumours. Schmitt JF, et al. **Growth Factors** 1996;13(1–2):19–35

p53 and HER-2/neu overexpression in ovarian borderline tumors. Eltabbakh GH, et al. **Gynecol Oncol** 1997 May; 65(2):218–24

DNA ploidy and expression of p53 and C-erbB-2 in extramammary Paget's disease of the vulva. Scheistrøen M, et al. **Gynecol Oncol** 1997 Jan;64(1):88–92

Overexpression of cyclin D1 in epithelial ovarian cancers [see comments] Worsley SD, et al. **Gynecol Oncol** 1997 Feb;64(2):189–95. Comment in: Gynecol Oncol 1997 Feb;64(2):187–8.

Relationship of p53 and c-erbB-2 expression to histopathological features, Helicobacter pylori infection and prognosis in gastric cancer. Shun CT, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):604–9

Detection of c-erbB-2 amplification in transitional cell bladder carcinoma using competitive PCR technique. Orlando C, et al. **J Urol** 1996 Dec;156(6):2089–93

Direct intratumoral gene transfer of the herpes simplex virus thymidine kinase gene with DNA-liposome complexes: growth inhibition of tumors and lack of localization in normal tissues. Takakuwa K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):166–75

Quantitation of HER-2/neu and c-myc gene amplification in breast carcinoma using fluorescence in situ hybridization. Persons DL, et al. **Mod Pathol** 1997 Jul;10(7):720–7

Epidermal growth factor receptor gene and c-erbB-2 gene amplification in ovarian cyst fluid. Reimer T, et al. **Obstet Gynecol** 1996 Dec;88(6):967–72

Molecular genetics of breast cancer. Radice P, et al. **Q J Nucl Med** 1997 Sep;41(3):189–99 (118 ref.)

[Correlation of multiple gene changes with malignant phenotype of human gastric carcinoma] Gao C, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):671–5 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Transductional efficacy and safety of an intraperitoneally delivered adenovirus encoding an anti-erbB-2 intracellular single-chain antibody for ovarian cancer gene therapy. Deshane J, et al. **Gynecol Oncol** 1997 Mar;64(3):378–85

A phase I study of recombinant adenovirus vector-mediated delivery of an anti-erbB-2 single-chain (sFv) antibody gene for previously treated ovarian and extraovarian cancer patients. Alvarez RD, et al. **Hum Gene Ther** 1997 Jan 20; 8(2):229–42

Genetic therapy for breast cancer reaches the drawing board. McBride G. **J Natl Cancer Inst** 1996 Dec 4;88(23):1710

Conversion of in vitro cultured human monocytes into effective presenters of an HER2/neu-encoded CTL peptide epitope. Wasserman K, et al. **Scand J Immunol** 1997 Jun;45(6):678–82

PHYSIOLOGY

Role of steroid hormone and growth factor receptors and proto-oncogenes in the behavior of human mammary epithelial cancer cells in vitro. Saxena S, et al. **Pathobiology** 1997;65(2):75–82

GENES, FMS

see related
ONCOGENE PROTEIN GP140(V-FMS)
RECEPTORS, MACROPHAGE COLONY-STIMULATING FACTOR

Sequence analysis of two genomic regions containing the KIT and the FMS receptor tyrosine kinase genes. Andre C, et al. **Genomics** 1997 Jan 15;39(2):216–26

IL-3, GM-CSF and CSF-1 modulate c-fms mRNA more rapidly in human early monocytic progenitors than in mature or transformed monocytic cells. Panterne B, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1795–801

Genetic aberrations in the development and subsequent progression of myelodysplastic syndrome. Misawa S, et al. **Leukemia** 1997 Apr;11 Suppl 3:533–5

IMMUNOLOGY

Transcriptional control of the expression of the c-fms gene encoding the receptor for macrophage colony-stimulating factor (CSF-1). Yue X, et al. **Immunobiology** 1996 Oct; 195(4–5):461–76 (59 ref.)

GENES, FOS

see related
ONCOGENE PROTEINS V-FOS
PROTO-ONCOGENE PROTEINS C-FOS

Effect of mechanical pressure on c-fos and on the mitotic activity of epidermal cells. Tsanev R, et al. **Acta Biochim Pol** 1996;43(4):593–601

Induction of immediate early response genes by hypoxia. Possible molecular bases for systems adaptation to low pO2. Cherniack NS, et al. **Adv Exp Med Biol** 1996;410:127–34

Muscarinic receptor-stimulated expression of c-fos in neuroblastoma cells. Alling C, et al. **Alcohol Alcohol Suppl** 1994;2:103–8

Gene expression during ethanol withdrawal. Wilce P, et al. **Alcohol Alcohol Suppl** 1994;2:97–102

Fos is required for EGF stimulation of the gastrin promoter. Marks P, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G942–8

Molecular mechanisms for somatostatin inhibition of c-fos gene expression. Todisco A, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 1):G721–6

Immediate-early gene expression in ovine brain after cardiopulmonary bypass and hypothermic circulatory arrest. Bokesch PM, et al. **Anesthesiology** 1996 Dec; 85(6):1439–46

Differential Fos expression following microinjection of oxytocin or vasopressin in the prairie vole brain. Gingrich BS, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:504–5

Mating-induced c-fos expression patterns complement and supplement observations after lesions in the male Syrian hamster brain. Newman SW, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:239–59 (44 ref.)

Effect of G:C—>A:T transition, potentially arising from O6-guanine alkylation, in the transcription regulation of c-fos serum response element. Bonfanti M, et al. **Anticancer Res** 1997 May-Jun;17(3C):2019–24

Crosslinking of SRF to the c-fos SRE CArG box guanines using photo-active thioguanine oligodeoxynucleotides. Cahill MA, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):170–5

Regulation of transcription factor activity during cellular aging. Wheaton K, et al. **Biochem Cell Biol** 1996; 74(4):523–34 (110 ref.)

Melanotransferrin gene expression in melanoma cells is correlated with high levels of Jun/Fos family transcripts and with the presence of a specific AP1-dependent ternary complex. Rozé-Heusse A, et al. **Biochem J** 1996 Sep 15; 318 (Pt 3):883–8

Transcriptional regulation of sertoli cell differentiation by follicle-stimulating hormone at the level of the c-fos and transferrin promoters. Chaudhary J, et al. **Biol Reprod** 1996 Mar;54(3):692–9

Upregulation of c-Fos in activated T lymphoid and monocytic cells by human immunodeficiency virus-1 Tat protein. Gibellini D, et al. **Blood** 1997 Mar 1;89(5):1654–64

Contribution of both STAT and SRF/TCF to c-fos promoter activation by granulocyte-macrophage colony-stimulating factor. Rajotte D, et al. **Blood** 1996 Oct 15;88(8):2906–16

Characterization of cis-acting sequences and trans-acting signals regulating early growth response 1 and c-fos promoters through the granulocyte-macrophage colony-stimulating factor receptor in BA/F3 cells. Watanabe S, et al. **Blood** 1997 Feb 15;89(4):1197–206

Effects of generalized convulsive seizures on corticotropin-releasing factor neuronal systems. Piekut D, et al. **Brain Res** 1996 Dec 16;743(1–2):63–9

Hypotension-induced expression of the c-fos gene in the medulla oblongata of piglets. Ruggiero DA, et al. **Brain Res** 1996 Jan 15;706(2):199–209

Deafferentiation-induced c-fos gene expression in subthalamic nucleus and substantia nigra reticulata is reduced by non-NMDA receptor antagonist. Saji M, et

al. **Brain Res** 1995 Dec 12;703(1-2):165-74

Cryptic brain cell injury caused by fetal nicotine exposure is associated with persistent elevations of c-fos protooncogene expression. Slotkin TA, et al. **Brain Res** 1997 Mar 7;750(1-2):180-8

Temporal-spatial pattern of c-fos expression in the rat brain in response to indispensable amino acid deficiency. I. The initial recognition phase. Wang Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):27-34

Temporal-spatial pattern of c-Fos expression in the rat brain in response to indispensable amino acid deficiency. II. The learned taste aversion. Wang Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):35-41

Temporal expression of c-fos mRNA following balloon injury in the rat common carotid artery. Mills CJ, et al. **Cardiovasc Res** 1996 Nov;32(5):954-61

cAMP-mediated c-fos expression in pressure-overloaded acceleration of protein synthesis in adult rat heart. Osaki J, et al. **Cardiovasc Res** 1997 Mar;33(3):631-40

Impaired induction of c-fos/c-jun genes and of transcriptional regulatory proteins binding distinct c-fos/c-jun promoter elements in activated human T cells during aging. Whisler RL, et al. **Cell Immunol** 1997 Jan 10;175(1):41-50

At least three neurotransmitter systems mediate a stress-induced increase in c-fos mRNA in different rat brain areas. Bozas E, et al. **Cell Mol Neurobiol** 1997 Apr; 17(2):157-69

C-fos expression in central neurons mediating the arterial baroreceptor reflex. Minson JB, et al. **Clin Exp Hypertens** 1997 Jul-Aug;19(5-6):631-43

Protooncogene expression in osteogenesis induced by bone morphogenetic protein. Sakano S, et al. **Clin Orthop** 1997 May;(338):240-6

Tyrosine kinase activation is an immediate and essential step in hypotonic cell swelling-induced ERK activation and c-fos gene expression in cardiac myocytes. Sadoshima J, et al. **EMBO J** 1996 Oct 15;15(20):5535-46

The cellular protooncogenes c-fos and egr-1 are regulated by prostacyclin in rodent osteoblasts and fibroblasts. Glantschnig H, et al. **Endocrinology** 1996 Nov; 137(11):4536-41

Temporal and cell-type specific expression of c-fos and c-jun protooncogenes in the mouse uterus after estrogen stimulation. Yamashita S, et al. **Endocrinology** 1996 Dec; 137(12):5468-75

Pituitary adenylate-cyclase-activating polypeptide stimulates proto-oncogene expression and activates the AP-1 (c-Fos/c-Jun) transcription factor in AR4-2J pancreatic carcinoma cells. Schäfer H, et al. **Eur J Biochem** 1996 Dec 15;242(3):467-76

Prostacyclin (PGI2): a potential mediator of c-fos expression induced by hydrostatic pressure in osteoblastic cells. Glanstchnig H, et al. **Eur J Clin Invest** 1996 Jul;26(7):544-8

C-fos expression during vocal mobbing in the new world monkey Saguinus fuscicollis. Jürgens U, et al. **Eur J Neurosci** 1996 Jan;8(1):2-10

The reinforcing properties of nicotine are associated with a specific patterning of c-fos expression in the rat brain. Pagliusi SR, et al. **Eur J Neurosci** 1996 Nov;8(11):2247-56

Intrathecally administered c-fos antisense oligodeoxynucleotide decreases formalin-induced nociceptive behavior in adult rats. Hou WY, et al. **Eur J Pharmacol** 1997 Jun 18;329(1):17-26

Seizures and proto-oncogene expression of fos in the brain of adult genetically epilepsy-prone rats. Clough RW, et al. **Exp Neurol** 1997 Aug;146(2):341-53

NMDA receptor overstimulation triggers a prolonged wave of immediate early gene expression: relationship to excitotoxicity. Shan Y, et al. **Exp Neurol** 1997 Apr; 144(2):406-15

The induction of c-fos and c-jun in the stretched latissimus dorsi muscle of the rabbit: responses to duration, degree and re-application of the stretch stimulus. Dawes NJ, et al. **Exp Physiol** 1996 May;81(3):329-39

c-Fos transrepression revisited. Cahill MA. **FEBS Lett** 1997 Jan 2;400(1):9-10

c-fos overexpression is associated with the pathoneogenesis of invasive cervical cancer. Cheung TH, et al. **Gynecol Obstet Invest** 1997;43(3):200-3

Phospholipase D activation in hepatocyte growth factor-stimulated rat hepatocytes mediates the expressions of c-jun and c-fos: involvement of protein tyrosine kinase, protein kinase C, and Ca2+. Adachi T, et al. **Hepatology** 1996 Nov;24(5):1274-81

Regulation of c-Fos mRNA and fos protein expression in olfactory bulbs from unilaterally odor-deprived adult mice. Jin BK, et al. **Int J Dev Neurosci** 1996 Nov;14(7-8):971-82

Induction of c-fos mRNA by lead in PC 12 cells. Kim K, et al. **Int J Dev Neurosci** 1997 Apr;15(2):175-82

The heterotrimeric G protein G alpha i2 mediates lysophosphatidic acid-stimulated induction of the c-fos gene in mouse fibroblasts. Chuprun JK, et al. **J Biol Chem** 1997 Jan 10;272(2):773-81

Characterization of Ral GDP dissociation stimulator-like (RGL) activities to regulate c-fos promoter and the GDP/GTP exchange of Ral. Murai H, et al. **J Biol Chem** 1997 Apr 18;272(16):10483-90

Parathyroid hormone induces c-fos promoter activity in osteoblastic cells through phosphorylated cAMP response element (CRE)-binding protein binding to the major CRE. Pearman AT, et al. **J Biol Chem** 1996 Oct 11; 271(41):25715-21

Analysis of signaling pathways used by parathyroid hormone to activate the c-fos gene in human SaOS2 osteoblast-like cells. Evans DB, et al. **J Bone Miner Res** 1996 Aug; 11(8):1066-74

Specific inhibition of c-fos proto-oncogene expression by triple-helix-forming oligonucleotides. Lavrovsky Y, et al. **J Cell Biochem** 1996 May;61(2):301-9

Induction in human osteoblastic cells (SaOS2) of the early response genes fos, jun, and myc by the amino terminal fragment (ATF) of urokinase. Rabbani SA, et al. **J Cell Physiol** 1997 Aug;172(2):137-45

Stimulus-dependent expression of immediate-early genes in rat somatosensory cortex. Melzer P, et al. **J Comp Neurol** 1997 Mar 31;380(1):145-53

Overexpression of c-Fos induces apoptosis of CD43+ pro-B cells. Hu L, et al. **J Immunol** 1996 Nov 1;157(9):3804-11

Adenovirus-mediated increase of exogenous and inhibition of endogenous fosB gene expression in cultured pulmonary arterial smooth muscle cells. Lu CY, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1703-13

c-fos mRNA and FOS protein expression is induced by Ca2+ influx in GH3B6 pituitary cells. Li SL, et al. **J Mol Endocrinol** 1996 Jun;16(3):229-38

Fos expression by naloxone in LHRH neurons of the mediobasal hypothalamus and effects of pentobarbital sodium in the proestrous rat. Funabashi T, et al. **J Neuroendocrinol** 1997 Feb;9(2):87-92

C-fos mRNA pattern and corticotropin-releasing factor neuronal activity throughout the brain of rats injected centrally with a prostaglandin of E2 type. Lacroix S, et al. **J Neuroimmunol** 1996 Nov;70(2):163-79

Phosphorylation of transcription factor CREB in rat spinal cord after formalin-induced hyperalgesia: relationship to c-fos induction. Ji RR, et al. **J Neurosci** 1997 Mar 1; 17(5):1776-85

Inhibition of carrageenan-induced spinal c-Fos activation by systemically administered c-fos antisense oligodeoxynucleotides may be facilitated by local opening of the blood-spinal cord barrier. Gillardon F, et al. **J Neurosci Res** 1997 Mar 15;47(6):582-9

Association of c-fos mRNA expression and excitotoxicity in primary cultures of mouse neocortical and cerebellar neurons. Griffiths R, et al. **J Neurosci Res** 1997 Jun 15; 48(6):533-42

Immediate early gene c-fos regulates the synthesis of phospholipids but not of gangliosides. Guido ME, et al. **J Neurosci Res** 1996 Jan 1;43(1):93-8

FOS expression in the brainstem and cerebellum following phencyclidine and MK801. Näkki R, et al. **J Neurosci Res** 1996 Jan 15;43(2):203-12

Suppression of UVB-induced c-fos and c-jun expression in human keratinocytes by N-acetylcysteine. Garmyn M, et al. **J Photochem Photobiol B** 1997 Jan;37(1-2):125-30

Induction of c-fos expression in rat vascular smooth muscle reporter cells by selective activation of the thrombin receptor. Yalkinoglu AO, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar; 15(1-4):117-30

Inhibitory effect of c-fos overexpression on B cell proliferative responses to membrane IGM cross-linking. Tomita Y, et al. **Kobe J Med Sci** 1995 Oct;41(5):141-53

Constitutive activation of Stat-related DNA-binding proteins in erythroid cells by the Friend spleen focus-forming virus. Ohashi T, et al. **Leukemia** 1997 Apr; 11 Suppl 3:251-4

Influence of the glucocorticoid receptor on c-fos inducibility in activated ras-containing mouse lung cells. Johnson TA, et al. **Mol Carcinog** 1996 Oct;17(2):70-7

Identification of differentially expressed genes in chemically induced skin tumors. Rutberg SE, et al. **Mol Carcinog** 1997 Sep;20(1):88-98

Voltage-insensitive Ca2+ channels and Ca2+/calmodulin-dependent protein kinases propagate signals from endothelin-1 receptors to the c-fos promoter. Wang Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5915-23

CRF stimulates expression of multiple fos and jun related genes in the AtT-20 corticotroph cell. Autelitano DJ, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):25-35

Proto-oncogenes c-jun and c-fos are down-regulated in human endometrium during pregnancy: relationship to oestrogen receptor status. Salmi A, et al. **Mol Hum Reprod** 1996 Dec;2(12):979-84

5-Hydroxytryptamine1B receptors modulate the effect of cocaine on c-fos expression: converging evidence using 5-hydroxytryptamine1B knockout mice and the 5-hydroxytryptamine1B/1D antagonist GR127935. Lucas JJ, et al. **Mol Pharmacol** 1997 May;51(5):755-63

Histamine modulates the expression of c-fos through cyclic AMP production via the H2 receptor in the human promonocytic cell line U937. Shayo C, et al. **Mol Pharmacol** 1997 Jun;51(6):983-90

Repair of oxidative damage in nuclear DNA sequences with different transcriptional activities. Grishko VI, et al. **Mutat Res** 1997 Aug;384(2):73-80

The absence of c-fos prevents light-induced apoptotic cell death of photoreceptors in retinal degeneration in vivo [see comments] Hafezi F, et al. **Nat Med** 1997 Mar;3(3):346-9 . Comment in: Nat Med 1997 Mar;3(3):280.

C-fos expression in the brainstem after voluntary ingestion of sucrose in the rat. Streefland C, et al. **Neurobiology (Bp)** 1996;4(1-2):85-102

On the role of c-fos expression in striatal transmission. The antisense oligonucleotide approach. Sommer W, et al. **Neurochem Int** 1997 Sep;31(3):425-36 (50 ref.)

Psychomotor stimulant- and opiate-induced c-fos mRNA expression patterns in the rat forebrain: comparisons between acute drug treatment and a drug challenge in sensitized animals. Curran EJ, et al. **Neurochem Res** 1996 Nov;21(11):1425-35

Effect of central and continuous intravenous injection of interleukin-1 beta on brain c-fos expression in the rat: involvement of prostaglandins. Niimi M, et al. **Neuroimmunomodulation** 1996 Mar-Jun;3(2-3):87-92

Calcium regulation of gene expression: isn't that spatial? Ginty DD. **Neuron** 1997 Feb;18(2):183-6 (20 ref.)

FOS is induced by singing in distinct neuronal populations in a motor network. Kimpo RR, et al. **Neuron** 1997 Feb; 18(2):315-25

Ciliary neurotrophic factor regulates nicotinic acetylcholine receptors on human neuroblastoma cells. Halvorsen SW, et al. **Neuropharmacology** 1996 Mar;35(3):257-65

Elicitation and reduction of fear: behavioural and neuroendocrine indices and brain induction of the immediate-early gene c-fos. Campeau S, et al. **Neuroscience** 1997 Jun;78(4):1087-104

Conditioned fear to context is associated with increased Fos expression in the caudal ventrolateral region of the midbrain periaqueductal gray. Carrive P, et al. **Neuroscience** 1997 May;78(1):165-77

Growth factor-induced c-fos expression defines distinct subsets of midbrain dopaminergic neurons. Engele J, et al. **Neuroscience** 1996 Jul;73(2):397-406

Androgen receptor immunoreactivity and mating-induced Fos expression in forebrain and midbrain structures in the male rat. Gréco B, et al. **Neuroscience** 1996 Nov; 75(1):161-71

Hypoxia-induced Fos expression in neurons projecting to the pressor region in the rostral ventrolateral medulla. Hirooka Y, et al. **Neuroscience** 1997 Oct;80(4):1209-24

Induction of members of the Fos/Jun family of immediate-early genes in identified hypothalamic neurons: in vivo evidence for differential regulation. Luckman SM, et al. **Neuroscience** 1996 Jul;73(2):473-85

Nucleosome assembly on the human c-fos promoter interferes with transcription factor binding. Schild-Poulter C, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4751-8

Increased expression of c-fos, c-jun and LRF-1 is not required for in vivo priming of hepatocytes by the mitogen TCPOBOP. Columbano A, et al. **Oncogene** 1997 Feb 20; 14(7):857-63

The proto-oncogene c-fos increases the sensitivity of keratinocytes to apoptosis. Mils V, et al. **Oncogene** 1997 Apr 3;14(13):1555-61

Synergistic activation of c-fos promoter activity by Raf and Ral GDP dissociation stimulator. Okazaki M, et al. **Oncogene** 1997 Feb 6;14(5):515-21

Identification of a c-fos-induced gene that is related to the platelet-derived growth factor/vascular endothelial growth factor family [published erratum appears in Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1603] Orlandini M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11675-80

Intrastriatally injected c-fos antisense oligonucleotide interferes with striatonigral but not striatopallidal gamma-aminobutyric acid transmission in the conscious rat. Sommer W, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14134-9

Chondrocytes as a specific target of ectopic Fos expression in early development. Watanabe H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3994-9

3' untranslated regions of c-myc and c-fos mRNAs: multifunctional elements regulating mRNA translation, degradation and subcellular localization. Veyrune JL, et al. **Prog Mol Subcell Biol** 1997;18:35-63 (160 ref.)

Activation of c-fos in the brain. Herrera DG, et al. **Prog Neurobiol** 1996 Oct;50(2-3):83-107 (265 ref.)

Studying the central actions of angiotensin using the expression of immediate-early genes: expectations and limitations. Herbert J. **Regul Pept** 1996 Oct 8;66(1-2):13-8 (26 ref.)

Prolongation and enhancement of postischemic c-fos expression after fasting. Lin TN, et al. **Stroke** 1997 Feb; 28(2):412-8

[Promotion of c-fos oncogene expression in cultured rabbit lens epithelial cells by macrophages] Hu M, et al. **Chung Hua Yen Ko Tsa Chih** 1996 Mar;32(2):104-6 (Eng. Abstr.) **(Chi)**

[Site specific alkylation of dual-stranded DNA of the murine c-fos gene promotor region and modulation of transcription by derivatives of pyrimidine oligonucleotides, containing residues of 2-chlorethylamine] Mastiugin VE, et al. **Mol Biol (Mosk)** 1996 Mar-Apr;30(2):293-306 **(Rus)**

DRUG EFFECTS

Halothane and diazepam inhibit ketamine-induced c-fos expression in the rat cingulate cortex. Nakao S, et al. **Anesthesiology** 1996 Oct;85(4):874-82

4-hydroxynonenal specifically inhibits c-myb but does not affect c-fos expressions in HL-60 cells. Barrera G, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):589-93

Systemic administration of an anabolic dose of prostaglandin E2 induces early-response genes in rat bones. Weinreb M, et al. **Bone** 1997 Apr;20(4):347-53

Modulatory role of catecholamines in the transsynaptic expression of c-fos in the rat medial prefrontal cortex induced by disinhibition of the mediodorsal thalamus: a study employing microdialysis and immunohistochemistry. Bubser M, et al. **Brain Res** 1997 Feb 28;749(2):214–25

Intracerebroventricular administration of beta-endorphin increases the expression of c-fos and of corticotropin-releasing factor messenger ribonucleic acid in the paraventricular nucleus of the rat. Wang XQ, et al. **Brain Res** 1996 Jan 29;707(2):189–95

Regulation of c-fos and c-jun expression by calcitonin in human breast cancer cells. Lacroix M, et al. **Calcif Tissue Int** 1997 Jun;60(6):513–9

H-ras transfection of the rat kidney cell line NRK-52E results in increased induction of c-fos, c-jun and hsp70 following sulofenur treatment. Gu H, et al. **Cancer Lett** 1996 Sep 10;106(2):199–205

Evidence for peroxynitrite as an oxidative stress-inducing compound of aqueous cigarette smoke fractions. Muller T, et al. **Carcinogenesis** 1997 Feb;18(2):295–301

The suppression of formalin-induced fos expression by different anesthetic agents in the infant rat. Yi DK, et al. **Dev Psychobiol** 1996 Sep;29(6):497–506

Antioxidants as well as oxidants activate c-fos via Ras-dependent activation of extracellular-signal-regulated kinase 2 and Elk-1. Müller JM, et al. **Eur J Biochem** 1997 Feb 15;244(1):45–52

Dopamine D3 receptors are not involved in the induction of c-fos mRNA by neuroleptic drugs: comparison of the dopamine D3 receptor antagonist GR103691 with typical and atypical neuroleptics. Hurley MJ, et al. **Eur J Pharmacol** 1996 Dec 30;318(2-3):283–93

Contrasting effects of SM-9018, a potential atypical antipsychotic, and haloperidol on c-fos mRNA expression in the rat striatum. Ishibashi T, et al. **Eur J Pharmacol** 1996 May 15;303(3):247–51

Wolff Award 1996. The actions of valproate and neurosteroids in a model of trigeminal pain. Cutrer FM, et al. **Headache** 1996 Nov-Dec;36(10):579–85

Competitive and non-competitive NMDA receptor antagonists induce c-Fos expression in the rat anterior, cingulate cortex. Wędzony K, et al. **J Physiol Pharmacol** 1996 Sep;47(3):525–33

Bradykinin stimulates c-fos expression, AP-1-DNA binding activity and proliferation of rat glomerular mesangial cells. el-Dahr SS, et al. **Kidney Int** 1996 Dec;50(6):1850–5

Inhibition of protein kinase C and proto-oncogene expression by crocetin in NIH/3T3 cells. Wang CJ, et al. **Mol Carcinog** 1996 Dec;17(4):235–40

Thapsigargin-induced gene expression in nonexcitable cells is dependent on calcium influx. Rodland KD, et al. **Mol Endocrinol** 1997 Mar;11(3):281–91

Salicylate evokes c-fos expression in the brain stem: implications for tinnitus. Wallhäusser-Franke E. **Neuroreport** 1997 Feb 10;8(3):725–8

Blockers of nitric oxide synthase inhibit stress activation of c-fos expression in neurons of the hypothalamic paraventricular nucleus in the rat. Amir S, et al. **Neuroscience** 1997 Apr;77(3):623–7

Morphine and somatostatin analogue reduce c-fos expression in trigeminal subnucleus caudalis produced by corneal stimulation in the rat. Bereiter DA. **Neuroscience** 1997 Apr;77(3):863–74

Androgens selectively modulate C-fos messenger RNA induction in the rat hippocampus following novelty. Kerr JE, et al. **Neuroscience** 1996 Oct;74(3):757–66

Dizocilpine maleate, an N-methyl-D-aspartate antagonist, inhibits dipsogenic responses and C-Fos expression induced by intracerebral infusion of angiotensin II. Xu Z, et al. **Neuroscience** 1997 May;78(1):203–14

The relation between nuclear gene expression and calcium ion in osteoblastic MC3T3-E1 cells. Deyama Y, et al. **Nucleic Acids Symp Ser** 1995;(34):79–80

Effects of unsaturated fatty acids on expression of early response genes in human T lymphocytes. Williams WV, et al. **Pathobiology** 1996;64(1):27–31

Effect of sinus denervation and vagotomy on c-fos expression in the nucleus tractus solitarius after exposure to CO2 Jansen AH, et al. **Pflugers Arch** 1996 Apr;431(6):876–81

Potential brain neuronal targets for amphetamine-, methylphenidate-, and modafinil-induced wakefulness, evidenced by c-fos immunocytochemistry in the cat. Lin JS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):14128–33

Acetaminophen-induced hepatotoxicity is associated with early changes in AP-1 DNA binding activity. Blazka ME, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun; 92(3):259–73

Dermatotoxic chemical stimulate of c-jun and c-fos transcription and AP-1 DNA binding in human keratinocytes. Burleson FG, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):131–48

Involvement of adenosine and glutamate receptors in the induction of c-fos in the striatum by haloperidol. Boegman RJ, et al. **Synapse** 1996 Jan;22(1):70–7

Dioxin induces transcription of fos and jun genes by Ah receptor-dependent and -independent pathways. Hoffer A, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):238–47

GENETICS

Increased intraluminal pressure induces DNA synthesis and c-fos expression in perfused rat aorta. Mangiarua EI, et al. **Arch Physiol Biochem** 1996 Dec;104(7):838–44

Differential expression of fos and jun family members during murine postnatal intestinal development. Blais S, et al. **Biol Neonate** 1996;69(5):342–9

Uterine growth, cell proliferation, and c-fos proto-oncogene expression throughout the estrous cycle in ewes. Johnson ML, et al. **Biol Reprod** 1997 Feb;56(2):393–401

Olfactory memory and maternal behaviour-induced changes in c-fos and zif/268 mRNA expression in the sheep brain. Da Costa AP, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1-2):63–76

Effect of c-Fos overexpression on the murine macrophage cell line P388DI. Mirahmadi R, et al. **C R Acad Sci III** 1997 Jan;320(1):13–8

Retinoic acid-induced transition from protein kinase C beta to protein kinase C alpha in differentiated F9 cells: correlation with altered regulation of proto-oncogene expression by phorbol esters. Khuri FR, et al. **Cell Growth Differ** 1996 May;7(5):595–602

Sequence analysis and expression in cultured lymphocytes of the human FOSB gene (G0S3). Heximer SP, et al. **DNA Cell Biol** 1996 Dec;15(12):1025–38

Cell-specific induction of c-fos expression in the pituitary gland by estrogen. Allen DL, et al. **Endocrinology** 1997 May;138(5):2128–35

Role of gonadal steroids in determining sexual differences in expression of Fos-related antigens in tyrosine hydroxylase-immunoreactive neurons in subdivisions of the hypothalamic arcuate nucleus. Cheung S, et al. **Endocrinology** 1997 Sep;138(9):3804–10

Induction of c-fos messenger ribonucleic acid in neuropeptide Y and growth hormone (GH)-releasing factor neurons in the rat arcuate nucleus following systemic injection of the GH secretagogue, GH-releasing peptide-6. Dickson SL, et al. **Endocrinology** 1997 Feb;138(2):771–7

Rapid membrane effects of steroids in neuroblastoma cells: effects of estrogen on mitogen activated protein kinase signalling cascade and c-fos immediate early gene transcription. Watters JJ, et al. **Endocrinology** 1997 Sep; 138(9):4030–3

Homocysteine signal cascade: production of phospholipids, activation of protein kinase C, and the induction of c-fos and c-myb in smooth muscle cells. Dalton ML, et al. **FASEB J** 1997 Jul;11(8):703–11

Expression pattern of c-sis, c-fos and c-jun in human placenta and embryofetal organs. Rossi D, et al. **Gynecol Obstet Invest** 1996;42(1):1–7

Neuroendocrine and behavioral responses and brain pattern of c-fos induction associated with audiogenic stress. Campeau S, et al. **J Neuroendocrinol** 1997 Aug;9(8):577–88

Age-dependent alterations of c-fos and growth regulation in human fibroblasts expressing the HPV16 E6 protein. Yan Y, et al. **Mol Biol Cell** 1996 Jun;7(6):975–83

Net-b, a Ras-insensitive factor that forms ternary complexes with serum response factor on the serum response element of the fos promoter. Giovane A, et al. **Mol Cell Biol** 1997 Oct;17(10):5667–78

Regulation of the cfos serum response element by C/EBPbeta. Sealy L, et al. **Mol Cell Biol** 1997 Mar; 17(3):1744–55

Interleukin-2 (IL-2) and IL-6 regulate c-fos protooncogene expression in human pituitary adenoma explants. Pereda MP, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1-2):33–42

Phorbol ester inhibition of rat gonadotropin-releasing hormone promoter activity: role of Fos and Jun in the repression of transcription. Bruder JM, et al. **Mol Endocrinol** 1996 Jan;10(1):35–44

Differential expression of c-fos mRNA in rat prefrontal cortex, striatum, N. accumbens and lateral septum after typical and atypical antipsychotics: an in situ hybridization study. Semba J, et al. **Neurochem Int** 1996 Oct;29(4):435–42

Influence of the estrous cycle on c-fos and CRH gene transcription in the brain of endotoxin-challenged female rats. Nappi RE, et al. **Neuroendocrinology** 1997 Jan; 65(1):29–46

Physiologically induced Fos expression in the hypothalamo-hypophyseal system of Xenopus laevis. Ubink R, et al. **Neuroendocrinology** 1997 Jun;65(6):413–22

Fos expression in serotonergic midbrain neurons projecting to the paraventricular nucleus of hypothalamus after noxious stimulation of the stomach: a triple labeling study in the rat. Dong YX, et al. **Neurosci Res** 1997 Feb; 27(2):155–60

Exaggerated C-fiber activation prevents peripheral nerve injury-induced hyperinducibility of c-Fos in partially deafferented spinal dorsal horn. Sugimoto T, et al. **Neurosci Res** 1997 Feb;27(2):161–7

Effects of unsaturated fatty acids on expression of early response genes in human T lymphocytes. Williams WV, et al. **Pathobiology** 1996;64(1):27–31

Expression of c-fos and c-jun proto-oncogenes by ovine preimplantation embryos. Wu B. **Zygote** 1996 Aug; 4(3):211–7

[Effect of adrenaline on food consumption and C-fos expression in the central nervous system] Racotta IS, et al. **Gac Med Mex** 1995 Jul-Aug;131(4):409–16 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Overexpression of c-fos inhibits down-regulation of a cyclin-dependent kinase-2 inhibitor p27Kip1 in splenic B cells activated by surface Ig cross-linking. Kobayashi K, et al. **J Immunol** 1997 Mar 1;158(5):2050–6

PHYSIOLOGY

Functional characterization of a novel type of 1 alpha,25-dihydroxyvitamin D3 response element identified in the mouse c-fos promoter. Schräder M, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):646–51

Attenuation of c-Fos expression in the rat lumbosacral spinal cord by morphine or tramadol following noxious colorectal distention. Traub RJ, et al. **Brain Res** 1995 Dec 1; 701(1-2):175–82

A general role for c-Fos in cellular protection against DNA-damaging carcinogens and cytostatic drugs. Kaina B, et al. **Cancer Res** 1997 Jul 1;57(13):2721–31

The suppression of formalin-induced fos expression by different anesthetic agents in the infant rat. Yi DK, et al. **Dev Psychobiol** 1996 Sep;29(6):497–506

Dopamine/glutamate interaction as studied by combining turning behaviour and c-Fos expression. Morelli M. **Neurosci Biobehav Rev** 1997 Jul;21(4):505–9 (36 ref.)

alpha1B adrenoceptors in rat paraventricular nucleus overlap with, but do not mediate, the induction of c-Fos expression by osmotic or restraint stress. Williams AM, et al. **Neuroscience** 1997 Feb;76(3):901–13

RADIATION EFFECTS

Effects of ionizing irradiation and beta-adrenergic stimulation on gene expression pattern in rat submandibular glands. Nagler RM, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):2749–56

Exposure of nerve growth factor-treated PC12 rat pheochromocytoma cells to a modulated radiofrequency field at 836.55 MHz: effects on c-jun and c-fos expression. Ivaschuk OI, et al. **Bioelectromagnetics** 1997;18(3):223–9

The p38 and ERK MAP kinase pathways cooperate to activate Ternary Complex Factors and c-fos transcription in response to UV light. Price MA, et al. **EMBO J** 1996 Dec 2;15(23):6552–63

Growth-state-dependent radiation-induced expression of the proto-oncogene c-fos in NIH 3T3 cells. Herskind C, et al. **Radiat Res** 1996 Mar;145(3):299–303

GENES, FUNGAL

A yeast three-hybrid method to clone ternary protein complex components. Zhang J, et al. **Anal Biochem** 1996 Nov 1;242(1):68–72

Increased mRNA levels of ERG16, CDR, and MDR1 correlate with increases in azole resistance in Candida albicans isolates from a patient infected with human immunodeficiency virus. White TC. **Antimicrob Agents Chemother** 1997 Jul;41(7):1482–7

The ade6 gene of the fission yeast as a target for antisense and ribozyme RNA-mediated suppression. Atkins D, et al. **Antisense Res Dev** 1995 Winter;5(4):295–305

Cloning, disruption, and expression of two endo-beta 1, 4-xylanase genes, XYL2 and XYL3, from Cochliobolus carbonum. Apel-Birkhold PC, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4129–35

Effect of aeration and unsaturated fatty acids on expression of the Saccharomyces cerevisiae alcohol acetyltransferase gene. Fujii T, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):910–5

Regulation of cellulase gene expression in the filamentous fungus Trichoderma reesei. Ilmén M, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1298–306

Aspergillus nidulans stcP encodes an O-methyltransferase that is required for sterigmatocystin biosynthesis. Kelkar HS, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4296–8

Cloning and structural analysis of the melanin biosynthesis gene SCD1 encoding scytalone dehydratase in Colletotrichum lagenarium. Kubo Y, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4340–4

Cellobiose dehydrogenase from Phanerochaete chrysosporium is encoded by two allelic variants. Li B, et al. **Appl Environ Microbiol** 1997 Feb;63(2):796–9

Analysis of mechanisms regulating expression of the ver-1 gene, involved in aflatoxin biosynthesis. Liang SH, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1058–65

Silencing MIG1 in Saccharomyces cerevisiae: effects of antisense MIG1 expression and MIG1 gene disruption. Olsson L, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2366–71

The Agaricus bisporus pruA gene encodes a cytosolic delta 1-pyrroline-5-carboxylate dehydrogenase which is expressed in fruit bodies but not in gill tissue. Schaap PJ, et al. **Appl Environ Microbiol** 1997 Jan;63(1):57–62

Isolation of expressed sequence tags of Agaricus bisporus and their assignment to chromosomes. Sonnenberg AS, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4542–7

Mutations in the IDH2 gene encoding the catalytic subunit of the yeast NAD+-dependent isocitrate dehydrogenase can be suppressed by mutations in the CIT1 gene encoding citrate synthase and other genes of oxidative metabolism. Gadde DM, et al. **Arch Biochem Biophys** 1997 Aug 1; 344(1):139–49

Identification of a novel pelD gene expressed uniquely in planta by Fusarium solani f. sp. pisi (Nectria haematococca, mating type VI) and characterization of its protein product as an endo-pectate lyase. Guo W, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):305–12

Molecular cloning of the neutral trehalase gene from Kluyveromyces lactis and the distinction between neutral and acid trehalases. Amaral FC, et al. **Arch Microbiol** 1997 Apr;167(4):202–8

Characterization of the intron-containing citrate synthase gene from the alkanotrophic yeast Candida tropicalis: cloning and expression in Saccharomyces cerevisiae. Ueda M, et al. **Arch Microbiol** 1997 Jul;168(1):8–15

A novel fungal gene encoding chitin synthase with a myosin motor-like domain. Fujiwara M, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):75–8

Deletion of the nuclear gene encoding the mitochondrial citrate transport protein from Saccharomyces cerevisiae. Kaplan RS, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):657–62

Structure and functional analysis of the multistress response gene DDR2 from Saccharomyces cerevisiae. Kobayashi N, et al. **Biochem Biophys Res Commun** 1996 Dec 13; 229(2):540–7

A second gene encoding a putative serine/threonine protein kinase which enhances spermine uptake in Saccharomyces cerevisiae. Nozaki T, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):452–8

The Schizosaccharomyces pombe gms1+ gene encodes an UDP-galactose transporter homologue required for protein galactosylation. Tabuchi M, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):121–5

Relocation of the unusual VAR1 gene from the mitochondrion to the nucleus. Sanchirico M, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):987–95 (46 ref.)

The YNT1 gene encoding the nitrate transporter in the yeast Hansenula polymorpha is clustered with genes YNI1 and YNR1 encoding nitrite reductase and nitrate reductase, and its disruption causes inability to grow in nitrate. Pérez MD, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):397–403

Isolation and characterization of Saccharomyces cerevisiae SAB2, a suppressor gene for temperature-sensitive phenotype of ARS-binding factor 1 mutant. Shin YH, et al. **Biochem Mol Biol Int** 1996 Nov;40(5):915–21

Isolation of ptb1, a gene for the beta-subunit of a prenyltransferase from fission yeast. Godfrey R, et al. **Biochem Soc Trans** 1996 Aug;24(3):432S

Defining the role of Sxa1 during pheromone adaptation in Schizosaccharomyces pombe. Hughes M, et al. **Biochem Soc Trans** 1996 Aug;24(3):502S

The cloning and overexpression of a cruciform binding protein from Ustilago maydis. Dutta S, et al. **Biochim Biophys Acta** 1997 Jun 26;1352(3):258–66

Analysis of carbon source-regulated gene expression by the upstream region of the Candida tropicalis malate synthase gene in Saccharomyces cerevisiae. Umemura K, et al. **Biochim Biophys Acta** 1997 Jan 3;1350(1):80–8

Synaptotagmin II expression partially rescues the growth defect of the yeast sec15 secretory mutant. Damer CK, et al. **Biol Cell** 1996;88(1–2):55–63

Identification and phylogenetic classification of eleven putative P-type calcium transport ATPase genes in the yeasts Saccharomyces cerevisiae and Schizosaccharomyces pombe. Catty P, et al. **Biosci Rep** 1996 Apr;16(2):75–85 (58 ref.)

Cassette for the generation of sequential gene disruptions in the yeast Schizosaccharomyces pombe. McNabb DS, et al. **Biotechniques** 1997 Jun;22(6):1134–9

Segregation of yeast polymorphic STA genes in meiotic recombinants and analysis of glucoamylase production. Balogh I, et al. **Can J Microbiol** 1996 Dec;42(12):1190–6

A Saccharomyces cerevisiae phleomycin-sensitive mutant, ph140, is defective in the RAD6 DNA repair gene. He CH, et al. **Can J Microbiol** 1996 Dec;42(12):1263–6

An endoglucanase from the anaerobic fungus Orpinomyces joyonii: characterization of the gene and its product. Liu JH, et al. **Can J Microbiol** 1997 May;43(5):477–85

Kinetochore localization of murine Bub1 is required for normal mitotic timing and checkpoint response to spindle damage. Taylor SS, et al. **Cell** 1997 May 30;89(5):727–35

A novel mutation avoidance mechanism dependent on S. cerevisiae RAD27 is distinct from DNA mismatch repair [see comments] Tishkoff DX, et al. **Cell** 1997 Jan 24; 88(2):253–63. Comment in: Cell 1997 Jan 24;88(2):155–8.

Characterization of the yeast transcriptome. Velculescu VE, et al. **Cell** 1997 Jan 24;88(2):243–51

Plant profilins rescue the aberrant phenotype of profilin-deficient Dictyostelium cells. Karakesisoglou I, et al. **Cell Motil Cytoskeleton** 1996;34(1):36–47

Complex multigene family of functionally distinct Hsp70s of yeast. Craig E, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:441–9 (59 ref.)

Genetic redundancy: screening for selection in yeast. Brookfield JFY. **Curr Biol** 1997 Jun 1;7(6):R366–8 (6 ref.)

Identification of genes induced in alkaloid-producing cultures of Claviceps sp. Arntz C, et al. **Curr Genet** 1997 Apr;31(4):357–60

Incidence of SUC-RTM telomeric repeated genes in brewing and wild wine strains of Saccharomyces. Denayrolles M, et al. **Curr Genet** 1997 Jun;31(6):457–61

An approach to identify functional homologues and suppressors of genes in fission yeast. Grallert B, et al. **Curr Genet** 1997 Jul;32(1):27–31

The A alpha mating-type locus of Schizophyllum commune: structure and function of gene X. Marion AL, et al. **Curr Genet** 1996 Jan;29(2):143–9

A mutation in cytochrome oxidase subunit 2 restores respiration of the mutant pet ts1402. Meyer W, et al. **Curr Genet** 1997 May;31(5):401–7

Three genes for mitochondrial proteins suppress null-mutations in both Afg3 and Rca1 when over-expressed. Rep M, et al. **Curr Genet** 1996 Aug; 30(3):206–11

Cloning and characterization of a Schizophyllum gene with A beta 6 mating-type activity. Shen GP, et al. **Curr Genet** 1996 Jan;29(2):136–42

Rearrangements at a DNA-fingerprint locus in the rice blast fungus. Shull V, et al. **Curr Genet** 1996 Aug;30(3):263–71

The mus-8 gene of Neurospora crassa encodes a structural and functional homolog of the Rad6 protein of Saccharomyces cerevisiae. Soshi T, et al. **Curr Genet** 1996 Aug;30(3):224–31

Cloning and characterisation of glutamine synthetase from Colletotrichum gloeosporioides and demonstration of elevated expression during pathogenesis on Stylosanthes guianensis. Stephenson SA, et al. **Curr Genet** 1997 May; 31(5):447–54

Co-expression of a Phanerochaete chrysosporium cellobiohydrolase gene and a Butyrivibrio fibrisolvens endo-beta-1,4-glucanase gene in Saccharomyces cerevisiae. van Rensburg P, et al. **Curr Genet** 1996 Aug; 30(3):246–50

A single expression site with a conserved leader sequence regulates variation of expression of the Pneumocystis carinii family of major surface glycoprotein genes. Edman JC, et al. **DNA Cell Biol** 1996 Nov;15(11):989–99

Intracellular location of the Saccharomyces cerevisiae CDC6 gene product. Jong A, et al. **DNA Cell Biol** 1996 Oct; 15(10):883–95

Cloning and sequencing of the gene encoding the soluble fumarate reductase from Saccharomyces cerevisiae. Enomoto K, et al. **DNA Res** 1996 Aug 31;3(4):263–7

Identification of genes encoding for peptide synthetases in the gram-negative bacterium Lysobacter sp. ATCC 53042 and the fungus Cylindrotrichum oligospermum. Bernhard F, et al. **DNA Seq** 1996;6(6):319–30

Fission yeast Sop2p: a novel and evolutionarily conserved protein that interacts with Arp3p and modulates profilin function. Balasubramanian MK, et al. **EMBO J** 1996 Dec 2;15(23):6426–37

The Schizosaccharomyces pombe rad3 checkpoint gene. Bentley NJ, et al. **EMBO J** 1996 Dec 2;15(23):6641–51

Fission yeast Cut1 and Cut2 are essential for sister chromatid separation, concentrate along the metaphase spindle and form large complexes. Funabiki H, et al. **EMBO J** 1996 Dec 2;15(23):6617–28

The PMT gene family: protein O-glycosylation in Saccharomyces cerevisiae is vital. Gentzsch M, et al. **EMBO J** 1996 Nov 1;15(21):5752–9

The fission yeast dma1 gene is a component of the spindle assembly checkpoint, required to prevent septum formation and premature exit from mitosis if spindle function is compromised. Murone M, et al. **EMBO J** 1996 Dec 2; 15(23):6605–16

rqh1+, a fission yeast gene related to the Bloom's and Werner's syndrome genes, is required for reversible S phase arrest. Stewart E, et al. **EMBO J** 1997 May 15; 16(10):2682–92

The Exocyst is a multiprotein complex required for exocytosis in Saccharomyces cerevisiae. TerBush DR, et al. **EMBO J** 1996 Dec 2;15(23):6483–94

A role for the divergent actin gene, ACT2, in nuclear pore structure and function. Yan C, et al. **EMBO J** 1997 Jun; 16(12):3572–86

The absence of the mitochondrial ATP synthase delta subunit promotes a slow growth phenotype of rho- yeast cells by a lack of assembly of the catalytic sector F1. Giraud MF, et al. **Eur J Biochem** 1997 May 1;245(3):813–8

Identification and characterization of the genes for mitochondrial ribosomal proteins of Saccharomyces cerevisiae. Kitakawa M, et al. **Eur J Biochem** 1997 Apr 15;245(2):449–56

Three alpha-galactosidase genes of Trichoderma reesei cloned by expression in yeast. Margolles-Clark E, et al. **Eur J Biochem** 1996 Aug 15;240(1):104–11

A conditional-lethal translation termination defect in a sup45 mutant of the yeast Saccharomyces cerevisiae. Stansfield I, et al. **Eur J Biochem** 1997 May 1;245(3):557–63

The VPS8 gene is required for localization and trafficking of the CPY sorting receptor in Saccharomyces cerevisiae. Chen YJ, et al. **Eur J Cell Biol** 1996 Aug;70(4):289–97

The protein encoded by the MFT1 gene is a targeting factor for mitochondrial precursor proteins, and not a core ribosomal protein. Beilharz T, et al. **FEBS Lett** 1997 Apr 28;407(2):220–4

Deletion of the yeast homologue of the human gene associated with Friedreich's ataxia elicits iron accumulation in mitochondria. Foury F, et al. **FEBS Lett** 1997 Jul 14; 411(2–3):373–7

Regulation of maltose utilization in Saccharomyces cerevisiae by genes of the RAS/protein kinase A pathway. Wanke V, et al. **FEBS Lett** 1997 Feb 3;402(2–3):251–5

Molecular analysis of the promoter region of the hexokinase 2 gene of Saccharomyces cerevisiae. Martínez-Campa C, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):69–74

Cloning and characterization of chsD, a chitin synthase-like gene of Aspergillus fumigatus. Mellado E, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):69–76

Temperature-related expression of the vacuolar aspartic proteinase (APR1) gene and beta-N-acetylglucosaminidase (HEX1) gene during Candida albicans morphogenesis. Niimi M, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):247–54

Isolation and characterization of a mutant of Saccharomyces cerevisiae affected in the FLO1 locus. Reboredo NM, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):57–61

Cloning of a new FLO gene from the flocculating Saccharomyces cerevisiae IM1-8b strain. Sieiro C, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):109–15

Identification of the gene encoding DNA topoisomerase I from Candida albicans. Taylor A, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):113–21

Cloning and nucleotide sequence of the mono- and diacylglycerol lipase gene (mdlB) of Aspergillus oryzae. Tsuchiya A, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):63–7

Molecular cloning of a novel allele of SMR1 which determines sulfometuron methyl resistance in Saccharomyces cerevisiae. Xie Q, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):165–8

Expression cloning of fungal enzyme genes; a novel approach for efficient isolation of enzyme genes of industrial relevance. Dalbøge H. **FEMS Microbiol Rev** 1997 Aug; 21(1):29–42 (21 ref.)

The transcriptional apparatus required for mRNA encoding genes in the yeast Saccharomyces cerevisiae emerges from a jigsaw puzzle of transcription factors. Künzler M, et al. **FEMS Microbiol Rev** 1996 Dec;19(2):117–36 (167 ref.)

The chsB gene of Aspergillus nidulans is necessary for normal hyphal growth and development [published erratum appears in Fungal Genet Biol 1996 Dec;20(4):314] Borgia PT, et al. **Fungal Genet Biol** 1996 Sep;20(3):193–203

The validity of the Aspergillus nidulans linkage map. Clutterbuck AJ. **Fungal Genet Biol** 1997 Jun;21(3):267–77 (55 ref.)

Multicellular ascomycetous fungal genomes contain more than 8000 genes. Kupfer DM, et al. **Fungal Genet Biol** 1997 Jun;21(3):364–72

Expressed sequences from conidial, mycelial, and sexual stages of Neurospora crassa. Nelson MA, et al. **Fungal Genet Biol** 1997 Jun;21(3):348–63

The genome and genes of Neurospora crassa. Radford A, et al. **Fungal Genet Biol** 1997 Jun;21(3):258–66 (50 ref.)

A Candida albicans genome project: cosmid contigs, physical mapping, and gene isolation. Tait E, et al. **Fungal Genet Biol** 1997 Jun;21(3):308–14

Evolution of a fungal regulatory gene family: the Zn(II)2Cys6 binuclear cluster DNA binding motif. Todd RB, et al. **Fungal Genet Biol** 1997 Jun;21(3):388–405 (159 ref.)

Genome analysis on linkage group VI of Neurospora crassa. Wan Y, et al. **Fungal Genet Biol** 1997 Jun;21(3):329–36

A large-insert (130 kbp) bacterial artificial chromosome library of the rice blast fungus Magnaporthe grisea: genome analysis, contig assembly, and gene cloning. Zhu H, et al. **Fungal Genet Biol** 1997 Jun;21(3):337–47

A novel group I intron in Candida dubliniensis is homologous to a Candida albicans intron. Boucher H, et al. **Gene** 1996 Nov 21;180(1–2):189–96

Nucleotide sequence of the gene coding for SEC14p in Candida (torulopsis) glabrata. Dundon W, et al. **Gene** 1997 Jul 1;193(1):115–8

Spermidine biosynthesis in Saccharomyces cerevisae: polyamine requirement of a null mutant of the SPE3 gene (spermidine synthase). Hamasaki-Katagiri N, et al. **Gene** 1997 Mar 10;187(1):35–43

The uvsF gene region in Aspergillus nidulans codes for a protein with homology to DNA replication factor C. Kafer E, et al. **Gene** 1997 Jun 3;191(2):155–9

Structural and functional analyses of APG5, a gene involved in autophagy in yeast. Kametaka S, et al. **Gene** 1996 Oct 31;178(1–2):139–43

HCF-1, a hydrophobin from the tomato pathogen Cladosporium fulvum. Spanu P. **Gene** 1997 Jul 1; 193(1):89–96

Cloning and characterization of the S. pombe gene efc25+, a new putative guanine nucleotide exchange factor. Tratner I, et al. **Gene** 1997 Jul 9;193(2):203–10

Involvement of the MRE2 gene of yeast in formation of meiosis-specific double-strand breaks and crossover recombination through RNA splicing. Nakagawa T, et al. **Genes Cells** 1997 Jan;2(1):65–79

Tam1, a telomere-associated meiotic protein, functions in chromosome synapsis and crossover interference. Chua PR, et al. **Genes Dev** 1997 Jul 15;11(14):1786–800

Two novel targets of the MAP kinase Kss1 are negative regulators of invasive growth in the yeast Saccharomyces cerevisiae. Cook JG, et al. **Genes Dev** 1996 Nov 15; 10(22):2831–48

GTP hydrolysis controls stringent selection of the AUG start codon during translation initiation in Saccharomyces cerevisiae. Huang HK, et al. **Genes Dev** 1997 Sep 15; 11(18):2396–413

The meiotic recombination hot spot created by the single-base substitution ade6-M26 results in remodeling of chromatin structure in fission yeast. Mizuno K, et al. **Genes Dev** 1997 Apr 1;11(7):876–86

Rpp1, an essential protein subunit of nuclear RNase P required for processing of precursor tRNA and 35S precursor rRNA in Saccharomyces cerevisiae. Stolc V, et al. **Genes Dev** 1997 Sep 15;11(18):2414–25

The pheromone cell signaling components of the Ustilago a mating-type loci determine intercompatibility between species. Bakkeren G, et al. **Genetics** 1996 Aug; 143(4):1601–13

The mitochondrial genome integrity gene, MGI1, of Kluyveromyces lactis encodes the beta-subunit of F1-ATPase. Chen XJ, et al. **Genetics** 1996 Dec; 144(4):1445–54

Mutations in the SPT4, SPT5, and SPT6 genes alter transcription of a subset of histone genes in Saccharomyces cerevisiae. Compagnone-Post PA, et al. **Genetics** 1996 Aug; 143(4):1543–54

DLH1 is a functional Candida albicans homologue of the meiosis-specific gene DMC1. Diener AC, et al. **Genetics** 1996 Jun;143(2):769–76

The role of Sas2, an acetyltransferase homologue of Saccharomyces cerevisiae, in silencing and ORC function. Ehrenhofer-Murray AE, et al. **Genetics** 1997 Apr; 145(4):923–34

CDP1, a novel Saccharomyces cerevisiae gene required for proper nuclear division and chromosome segregation. Foreman PK, et al. **Genetics** 1996 Dec;144(4):1387–97

Genetic analysis of the Saccharomyces cerevisiae RHO3 gene, encoding a rho-type small GTPase, provides evidence for a role in bud formation. Imai J, et al. **Genetics** 1996 Feb;142(2):359–69

Genetic and physical variability at the mating type locus of the oomycete, Phytophthora infestans. Judelson HS. **Genetics** 1996 Nov;144(3):1005–13

The yeast BSD2-1 mutation influences both the requirement for phosphatidylinositol transfer protein function and derepression of phospholipid biosynthetic gene expression in yeast. Kagiwada S, et al. **Genetics** 1996 Jun;143(2):685–97

Correlation of genetic and physical maps at the A mating-type locus of Coprinus cinereus. Lukens L, et al. **Genetics** 1996 Dec;144(4):1471–7

Dosage suppressors of a benomyl-dependent tubulin mutant: evidence for a link between microtubule stability and cellular metabolism. Machin NA, et al. **Genetics** 1996 Dec; 144(4):1363–73

A general method for identifying recessive diploid-specific mutations in Saccharomyces cerevisiae, its application to the isolation of mutants blocked at intermediate stages of meiotic prophase and characterization of a new gene SAE2. McKee AH, et al. **Genetics** 1997 Jul;146(3):797–816

Aspergillus fabM encodes an essential product that is related to poly(A)-binding proteins and activates development when overexpressed. Marhoul JF, et al. **Genetics** 1996 Dec; 144(4):1463–70

eth-1, the Neurospora crassa locus encoding S-adenosylmethionine synthetase: molecular cloning, sequence analysis and in vivo overexpression. Mautino MR, et al. **Genetics** 1996 Mar;142(3):789–800

Pseudohomothallism and evolution of the mating-type chromosome in Neurospora tetrasperma. Merino ST, et al. **Genetics** 1996 Jun;143(2):789–99

Isolation and characterization of a temperature-sensitive circadian clock mutant of Neurospora crassa. Morgan LW, et al. **Genetics** 1997 Jun;146(2):525–30

A putative rhamnogalacturonase required for sexual development of Neurospora crassa. Nelson MA, et al. **Genetics** 1997 Jun;146(2):531–40

Multiple versions of the A mating type locus of Coprinus cinereus are generated by three paralogous pairs of multiallelic homeobox genes. Pardo EH, et al. **Genetics** 1996 Sep;144(1):87–94

Homologous and homeologous intermolecular gene conversion are not differentially affected by mutations in the DNA damage or the mismatch repair genes RAD1, RAD50, RAD51, RAD52, RAD54, PMS1 and MSH2. Porter G, et al. **Genetics** 1996 Jun;143(2):755–67

The product of the het-C heterokaryon incompatibility gene of Neurospora crassa has characteristics of a glycine-rich cell wall protein. Saupe SJ, et al. **Genetics** 1996 Aug; 143(4):1589–600

Mitochondrial intronic open reading frames in Podospora: mobility and consecutive exonic sequence variations. Sellem CH, et al. **Genetics** 1996 Jun;143(2):777–88

Los1p, involved in yeast pre-tRNA splicing, positively regulates members of the SOL gene family. Shen WC, et al. **Genetics** 1996 Jun;143(2):699–712

Epigenetic inheritance of transcriptional silencing and switching competence in fission yeast. Thon G, et al. **Genetics** 1997 Mar;145(3):685–96

Effects of mutations of RAD50, RAD51, RAD52, and related genes on illegitimate recombination in Saccharomyces cerevisiae. Tsukamoto Y, et al. **Genetics** 1996 Feb; 142(2):383–91

Mutagenesis of the yeast gene PRP8 reveals domains governing the specificity and fidelity of 3' splice site selection. Umen JG, et al. **Genetics** 1996 Jun;143(2):723–39

Multiple genes encoding pheromones and a pheromone receptor define the B beta 1 mating-type specificity in Schizophyllum commune. Vaillancourt LJ, et al. **Genetics** 1997 Jun;146(2):541–51

Evidence that the transcriptional regulators SIN3 and RPD3, and a novel gene (SDS3) with similar functions, are involved in transcriptional silencing in S. cerevisiae. Vannier D, et al. **Genetics** 1996 Dec;144(4):1343–53

Analysis of a 103 kbp cluster homology region from the left end of Saccharomyces cerevisiae chromosome I. Storms RK, et al. **Genome** 1997 Feb;40(1):151–64

Cloning and characterization of the ALG3 gene of Saccharomyces cerevisiae. Aebi M, et al. **Glycobiology** 1996 Jun;6(4):439–44

Isolation of the ALG6 locus of Saccharomyces cerevisiae required for glucosylation in the N-linked glycosylation pathway. Reiss G, et al. **Glycobiology** 1996 Jul;6(5):493–8

Destabilization of CAG trinucleotide repeat tracts by mismatch repair mutations in yeast. Schweitzer JK, et al. **Hum Mol Genet** 1997 Mar;6(3):349–55

Disruption of the SNF1 gene abolishes trehalose utilization in the pathogenic yeast Candida glabrata. Petter R, et al. **Infect Immun** 1996 Dec;64(12):5269–73

A phylogenetic analysis of the genus Saccharomyces based on 18S rRNA gene sequences: description of Saccharomyces kunashirensis sp. nov. and Saccharomyces martiniae sp. nov. James SA, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):453–60

Polymerase chain reaction amplification of Asp f I and alkaline protease genes from fungus balls: clinical application in pulmonary aspergillosis. Urata T, et al. **Intern Med** 1997 Jan;36(1):19–27

Isolation and characterization of 8-demethoxy steffimycins and generation of 2,8-demethoxy steffimycins in Streptomyces steffisburgensis by the nogalamycin biosynthesis genes. Kunnari T, et al. **J Antibiot (Tokyo)** 1997 Jun;50(6):496–501

The Candida albicans HYR1 gene, which is activated in response to hyphal development, belongs to a gene family encoding yeast cell wall proteins. Bailey DA, et al. **J Bacteriol** 1996 Sep;178(18):5353–60

Glucose uptake in Kluyveromyces lactis: role of the HGT1 gene in glucose transport. Billard P, et al. **J Bacteriol** 1996 Oct;178(20):5860–6

A stationary-phase gene in Saccharomyces cerevisiae is a member of a novel, highly conserved gene family. Braun EL, et al. **J Bacteriol** 1996 Dec;178(23):6865–72

Role of GATA factor Nil2p in nitrogen regulation of gene expression in Saccharomyces cerevisiae. Rowen DW, et al. **J Bacteriol** 1997 Jun;179(11):3761–6

The mitogen-activated protein kinase homolog HOG1 gene controls glycerol accumulation in the pathogenic fungus Candida albicans. San José C, et al. **J Bacteriol** 1996 Oct; 178(19):5850–2

AUT1, a gene essential for autophagocytosis in the yeast Saccharomyces cerevisiae. Schlumpberger M, et al. **J Bacteriol** 1997 Feb;179(4):1068–76

The Saccharomyces cerevisiae MEC1 gene, which encodes a homolog of the human ATM gene product, is required for G1 arrest following radiation treatment. Siede W, et al. **J Bacteriol** 1996 Oct;178(19):5841–3

The WH11 gene of Candida albicans is regulated in two distinct developmental programs through the same transcription activation sequences. Srikantha T, et al. **J Bacteriol** 1997 Jun;179(12):3837–44

AUT3, a serine/threonine kinase gene, is essential for autophagocytosis in Saccharomyces cerevisiae. Straub M, et al. **J Bacteriol** 1997 Jun;179(12):3875–83

Identification and characterization of extragenic suppressors of the yeast sec12 ts mutation. Nakano A. **J Biochem (Tokyo)** 1996 Sep;120(3):642–6

Spliceosomal introns in conserved sequences of U1 and U5 small nuclear RNA genes in yeast Rhodotorula hasegawae. Takahashi Y, et al. **J Biochem (Tokyo)** 1996 Sep; 120(3):677–83

Characterization of the COQ5 gene from Saccharomyces cerevisiae. Evidence for a C-methyltransferase in ubiquinone biosynthesis. Barkovich RJ, et al. **J Biol Chem** 1997 Apr 4;272(14):9182–8

The ARG11 gene of Saccharomyces cerevisiae encodes a mitochondrial integral membrane protein required for arginine biosynthesis. Crabeel M, et al. **J Biol Chem** 1996 Oct 4;271(40):25011–8

Isolation and characterization of a thiamin transport gene, THI10, from Saccharomyces cerevisiae. Enjo F, et al. **J Biol Chem** 1997 Aug 1;272(31):19165–70

The PPS1 gene of Saccharomyces cerevisiae codes for a dual specificity protein phosphatase with a role in the DNA synthesis phase of the cell cycle. Ernsting BR, et al. **J Biol Chem** 1997 Apr 4;272(14):9332–43

In addition to SEC11, a newly identified gene, SPC3, is essential for signal peptidase activity in the yeast endoplasmic reticulum. Fang H, et al. **J Biol Chem** 1997 May 16;272(20):13152–8

Pch1(+), a second essential C-type cyclin gene in Schizosaccharomyces pombe. Furnari BA, et al. **J Biol Chem** 1997 May 2;272(18):12100–6

Overexpression of nreB, a new GATA factor-encoding gene of Penicillium chrysogenum, leads to repression of the nitrate assimilatory gene cluster. Haas H, et al. **J Biol Chem** 1997 Sep 5;272(36):22576–82

Identification of a novel gene encoding the yeast mitochondrial dicarboxylate transport protein via overexpression, purification, and characterization of its protein product. Kakhniashvili D, et al. **J Biol Chem** 1997 Feb 14;272(7):4516–21

Cloning and characterization of an essential Saccharomyces cerevisiae gene, TAF40, which encodes yTAFII40, an RNA polymerase II-specific TATA-binding protein-associated factor. Klebanow ER, et al. **J Biol Chem** 1997 Apr 4;272(14):9436–42

Isolation, expression, and regulation of the pgr1(+) gene encoding glutathione reductase absolutely required for the growth of Schizosaccharomyces pombe. Lee J, et al. **J Biol Chem** 1997 Sep 12;272(37):23042–9

SHY1, the yeast homolog of the mammalian SURF-1 gene, encodes a mitochondrial protein required for respiration. Mashkevich G, et al. **J Biol Chem** 1997 May 30; 272(22):14356–64

The yeast SPC22/23 homolog Spc3p is essential for signal peptidase activity. Meyer HA, et al. **J Biol Chem** 1997 May 16;272(20):13159–64

Molecular characterization of GCV3, the Saccharomyces cerevisiae gene coding for the glycine cleavage system hydrogen carrier protein. Nagarajan L, et al. **J Biol Chem** 1997 Feb 14;272(7):4444–50

The yeast JEM1p is a DnaJ-like protein of the endoplasmic reticulum membrane required for nuclear fusion. Nishikawa S, et al. **J Biol Chem** 1997 May 16;272(20):12889–92

Identification of a Saccharomyces gene, LCB3, necessary for incorporation of exogenous long chain bases into sphingolipids. Qie L, et al. **J Biol Chem** 1997 Jun 27; 272(26):16110–7

MNN6, a member of the KRE2/MNT1 family, is the gene for mannosylphosphate transfer in Saccharomyces cerevisiae. Wang XH, et al. **J Biol Chem** 1997 Jul 18; 272(29):18117–24

Overexpression of the G1-cyclin gene CLN2 represses the mating pathway in Saccharomyces cerevisiae at the level of the MEKK Ste11. Wassmann K, et al. **J Biol Chem** 1997 May 16;272(20):13180–8

The ZRT2 gene encodes the low affinity zinc transporter in Saccharomyces cerevisiae. Zhao H, et al. **J Biol Chem** 1996 Sep 20;271(38):23203–10

MHP1, an essential gene in Saccharomyces cerevisiae required for microtubule function. Irminger-Finger I, et al. **J Cell Biol** 1996 Dec;135(5):1323–39

The SAC3 gene encodes a nuclear protein required for normal progression of mitosis. Bauer A, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1575–83

Schizosaccharomyces pombe Vps34p, a phosphatidylinositol-specific PI 3-kinase essential for normal cell growth and vacuole morphology. Takegawa K, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3745–56

The fission yeast sts5+ gene is required for maintenance of growth polarity and functionally interacts with protein kinase C and an osmosensing MAP-kinase pathway. Toda T, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2331–42

Microsatellite polymorphism in the promoter sequence of the elongation factor 3 gene of Candida albicans as the basis for a typing system. Bretagne S, et al. **J Clin Microbiol** 1997 Jul;35(7):1777–80

Clinical isolates of Histoplasma capsulatum from Indianapolis, Indiana, have a recombining population structure. Carter DA, et al. **J Clin Microbiol** 1996 Oct; 34(10):2577–84

Analysis of genes coding for small-subunit rRNA sequences in studying phylogenetics of dematiaceous fungal pathogens [letter; comment] Haase G. **J Clin Microbiol** 1996 Aug;34(8):2049–50. Comment on: J Clin Microbiol 1995 May;33(5):1322–6.

Biodiversity of Pneumocystis carinii hominis: typing with different DNA regions. Latouche S, et al. **J Clin Microbiol** 1997 Feb;35(2):383–7

Detection of Cryptococcus neoformans gene in patients with pulmonary cryptococcosis. Tanaka K, et al. **J Clin Microbiol** 1996 Nov;34(11):2826–8

Cloning and characterization of a cDNA coding for Candida albicans polyubiquitin [published erratum appears in J Med Vet Mycol 1996 Nov-Dec;34(6):434] Sepulveda P, et al. **J Med Vet Mycol** 1996 Sep-Oct;34(5):315–22

New evidence that Candida albicans possesses additional ATP-binding cassette MDR-like genes: implications for antifungal azole resistance. Walsh TJ, et al. **J Med Vet Mycol** 1997 Mar-Apr;35(2):133–7

The spTRK gene encodes a potassium-specific transport protein TKHp in Schizosaccharomyces pombe [letter] Bertl A. **J Membr Biol** 1997 Sep 1;159(1):95–7

In vivo analyses of upstream promoter sequence elements in the 5 S rRNA gene from Saccharomyces cerevisiae. Lee Y, et al. **J Mol Biol** 1997 Jun 27;269(5):676–83

Excision repair at the level of the nucleotide in the Saccharomyces cerevisiae MFA2 gene: mapping of where enhanced repair in the transcribed strand begins or ends and identification of only a partial rad16 requisite for repairing upstream control sequences. Teng Y, et al. **J Mol Biol** 1997 Mar 28;267(2):324–37

Evolution of promoter sequences: elements of a canonical promoter for prespore genes of Dictyostelium [published erratum appears in J Mol Evol 1997 Apr;44(4):469] Miller C, et al. **J Mol Evol** 1996 Sep;43(3):185–93

Role of PSO genes in the repair of photoinduced interstrand cross-links and photooxidative damage in the DNA of the yeast Saccharomyces cerevisiae. Henriques JA, et al. **J Photochem Photobiol B** 1997 Jul;39(3):185–96 (110 ref.)

Genes that control longevity in Podospora anserina. Rossignol M, et al. **Mech Ageing Dev** 1996 Sep 30; 90(3):183–93

Transformation of lithium-treated yeast cells and the selection of auxotrophic and dominant markers. Mount RC, et al. **Methods Mol Biol** 1996;53:139–45 (19 ref.)

Genetic regulation of nitrogen metabolism in the fungi. Marzluf GA. **Microbiol Mol Biol Rev** 1997 Mar;61(1):17–32 (129 ref.)

3-phosphoglycerate kinase: a glycolytic enzyme protein

present in the cell wall of Candida albicans. Alloush HM, et al. **Microbiology** 1997 Feb;143 (Pt 2):321–30

Characterization and overexpression of the Aspergillus niger gene encoding the cAMP-dependent protein kinase catalytic subunit. Bencina M, et al. **Microbiology** 1997 Apr; 143 (Pt 4):1211–20

Reclassification of the Penicillium roqueforti group into three species on the basis of molecular genetic and biochemical profiles. Boysen M, et al. **Microbiology** 1996 Mar;142 (Pt 3):541–9

SYR2, a gene necessary for syringomycin growth inhibition of Saccharomyces cerevisiae. Cliften P, et al. **Microbiology** 1996 Mar;142 (Pt 3):477–84

Three Neocallimastix patriciarum esterases associated with the degradation of complex polysaccharides are members of a new family of hydrolases. Dalrymple BP, et al. **Microbiology** 1997 Aug;143 (Pt 8):2605–14

The KIPHO5 gene encoding a repressible acid phosphatase in the yeast Kluyveromyces lactis: cloning, sequencing and transcriptional analysis of the gene, and purification and properties of the enzyme. Fermiñán E, et al. **Microbiology** 1997 Aug;143 (Pt 8):2615–25

Cloning and characterization of a gene (LIP1) which encodes a lipase from the pathogenic yeast Candida albicans. Fu Y, et al. **Microbiology** 1997 Feb;143 (Pt 2):331–40

Cloning and disruption of the ornithine decarboxylase gene of Ustilago maydis: evidence for a role of polyamines in its dimorphic transition. Guevara-Olvera L, et al. **Microbiology** 1997 Jul;143 (Pt 7):2237–45

The Aspergillus fumigatus mepB gene encodes an 82 kDa intracellular metalloproteinase structurally related to mammalian thimet oligopeptidases. Ibrahim-Granet O, et al. **Microbiology** 1997 Jul;143 (Pt 7):2247–53

nuvA, an Aspergillus nidulans gene involved in DNA repair and recombination, is a homologue of Saccharomyces cerevisiae RAD18 and Neurospora crassa uvs-2. Iwanejko L, et al. **Microbiology** 1996 Mar;142 (Pt 3):505–15

The topoisomerase I gene from Candida albicans. Jiang W, et al. **Microbiology** 1997 Feb;143 (Pt 2):377–86

hymA (hypha-like metulae), a new developmental mutant of Aspergillus nidulans. Karos M, et al. **Microbiology** 1996 Nov;142 (Pt 11):3211–8

The TBP gene from Aspergillus nidulans-structure and expression in Saccharomyces cerevisiae. Kucharski R, et al. **Microbiology** 1997 Apr;143 (Pt 4):1263–70

An oligopeptide transport gene from Candida albicans. Lubkowitz MA, et al. **Microbiology** 1997 Feb;143 (Pt 2):387–96

A Pneumocystis carinii multi-gene family with homology to subtilisin-like serine proteases. Lugli EB, et al. **Microbiology** 1997 Jul;143 (Pt 7):2223–36

The phytase subfamily of histidine acid phosphatases: isolation of genes for two novel phytases from the fungi Aspergillus terreus and Myceliophthora thermophila. Mitchell DB, et al. **Microbiology** 1997 Jan;143 (Pt 1):245–52

Cloning, analysis and one-step disruption of the ARG5,6 gene of Candida albicans. Negredo A, et al. **Microbiology** 1997 Feb;143 (Pt 2):297–302

Cloning of Candida albicans genes conferring resistance to azole antifungal agents: characterization of CDR2, a new multidrug ABC transporter gene. Sanglard D, et al. **Microbiology** 1997 Feb;143 (Pt 2):405–16

Phenotype in Candida albicans of a disruption of the BGL2 gene encoding a 1,3-beta-glucosyltransferase. Sarthy AV, et al. **Microbiology** 1997 Feb;143 (Pt 2):367–76

Gene regulation during high-frequency switching in Candida albicans. Soll DR. **Microbiology** 1997 Feb;143 (Pt 2):279–88 (60 ref.)

Two chitin synthase genes from Ustilago maydis. Xoconostle-Cazares B, et al. **Microbiology** 1996 Feb;142 (Pt 2):377–87

Nuclear transport defects and nuclear envelope alterations are associated with mutation of the Saccharomyces cerevisiae NPL4 gene. DeHoratius C, et al. **Mol Biol Cell** 1996 Nov;7(11):1835–55

Genes that control the fidelity of endoplasmic reticulum to Golgi transport identified as suppressors of vesicle budding mutations. Elrod-Erickson MJ, et al. **Mol Biol Cell** 1996 Jul;7(7):1043–58

Characterization of a novel CDC gene (ORC1) partly homologous to CDC6 of Saccharomyces cerevisiae. Hori Y, et al. **Mol Biol Cell** 1996 Mar;7(3):409–18

Distinct roles of yeast MEC and RAD checkpoint genes in transcriptional induction after DNA damage and implications for function. Kiser GL, et al. **Mol Biol Cell** 1996 May;7(5):703–18

p150Glued, the largest subunit of the dynactin complex, is nonessential in Neurospora but required for nuclear distribution. Tinsley JH, et al. **Mol Biol Cell** 1996 May; 7(5):731–42

PAN3 encodes a subunit of the Pab1p-dependent poly(A) nuclease in Saccharomyces cerevisiae. Brown CE, et al. **Mol Cell Biol** 1996 Oct;16(10):5744–53

Fission yeast mal2+ is required for chromosome segregation. Fleig U, et al. **Mol Cell Biol** 1996 Nov;16(11):6169–77

Dual requirement for the yeast MMS19 gene in DNA repair and RNA polymerase II transcription. Lauder S, et al. **Mol Cell Biol** 1996 Dec;16(12):6783–93

Saccharomyces cerevisiae G1 cyclins differ in their intrinsic functional specificities. Levine K, et al. **Mol Cell Biol** 1996 Dec;16(12):6794–803

Suppression of oxidative damage by Saccharomyces cerevisiae ATX2, which encodes a manganese-trafficking protein that localizes to Golgi-like vesicles. Lin SJ, et al. **Mol Cell Biol** 1996 Nov;16(11):6303–12

Expression of the HsOrc1 gene, a human ORC1 homolog, is regulated by cell proliferation via the E2F transcription factor. Ohtani K, et al. **Mol Cell Biol** 1996 Dec; 16(12):6977–84

Saccharomyces cerevisiae BUR6 encodes a DRAP1/NC2alpha homolog that has both positive and negative roles in transcription in vivo. Prelich G. **Mol Cell Biol** 1997 Apr;17(4):2057–65

Allele-specific suppression of a defective trans-Golgi network (TGN) localization signal in Kex2p identifies three genes involved in localization of TGN transmembrane proteins. Redding K, et al. **Mol Cell Biol** 1996 Nov; 16(11):6208–17

Identification and characterization of mutations in the UPF1 gene that affect nonsense suppression and the formation of the Upf protein complex but not mRNA turnover. Weng Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5491–506

Characterization of rco-1 of Neurospora crassa, a pleiotropic gene affecting growth and development that encodes a homolog of Tup1 of Saccharomyces cerevisiae. Yamashiro CT, et al. **Mol Cell Biol** 1996 Nov;16(11):6218–28

Mutations in the homologous ZDS1 and ZDS2 genes affect cell cycle progression. Yu Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5254–63

Saccharomyces cerevisiae Nip7p is required for efficient 60S ribosome subunit biogenesis. Zanchin NI, et al. **Mol Cell Biol** 1997 Sep;17(9):5001–15

Identification of putative phosphoinositide-specific phospholipase C genes in filamentous fungi. Jung OJ, et al. **Mol Cells** 1997 Apr 30;7(2):192–9

Cloning and characterization of the citA gene encoding the mitochondrial citrate synthase of Aspergillus nidulans. Park BW, et al. **Mol Cells** 1997 Apr 30;7(2):290–5

Molecular cloning and sequence analysis of a putative ras gene of the phytopathogenic fungus Botryotinia fuckeliana. Park SY, et al. **Mol Cells** 1997 Apr 30;7(2):300–4

Isolation and characterization of a benomyl-resistant form of beta-tubulin-encoding gene from the phytopathogenic fungus Botryotinia fuckeliana. Park SY, et al. **Mol Cells** 1997 Feb 28;7(1):104–9

Gene expression from replicating plasmids in Aspergillus nidulans. Aleksenko A, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):242–6

The Kluyveromyces lactis equivalent of casein kinase I is required for the transcription of the gene encoding the low-affinity glucose permease. Blaisonneau J, et al. **Mol Gen Genet** 1997 Jan 27;253(4):469–77

PRS1 is a key member of the gene family encoding phosphoribosylpyrophosphate synthetase in Saccharomyces cerevisiae. Carter AT, et al. **Mol Gen Genet** 1997 Mar 26;254(2):148–56

Functional promoter elements common to ribosomal protein and ribosomal RNA genes in Neurospora crassa. Cujec TP, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):205–16

Disruption of the nuclear gene encoding the 20.8-kDa subunit of NADH: ubiquinone reductase of Neurospora mitochondria. da Silva MV, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):177–83

Multidrug resistance in Aspergillus nidulans involves novel ATP-binding cassette transporters. Del Sorbo G, et al. **Mol Gen Genet** 1997 Apr 28;254(4):417–26

Protein factors in Blastocladiella emersonii cell extracts recognize similar sequence elements in the promoters of the genes encoding cAMP-dependent protein kinase subunits. de Oliveira JC, et al. **Mol Gen Genet** 1997 Aug; 255(5):495–503

SOM 1, a small new gene required for mitochondrial inner membrane peptidase function in Saccharomyces cerevisiae. Esser K, et al. **Mol Gen Genet** 1996 Sep 25;252(4):437–45

Cloning of the polyketide synthase gene atX from Aspergillus terreus and its identification as the 6-methylsalicylic acid synthase gene by heterologous expression. Fujii I, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):1–10

Genetic interaction of DED1 encoding a putative ATP-dependent RNA helicase with SRM1 encoding a mammalian RCC1 homolog in Saccharomyces cerevisiae. Hayashi N, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):149–56

Dictyostelium discoideum cobB mutants show reduced heavy metal accumulation associated with gene amplification. Hughes JE, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):65–73

A ras homologue of Neurospora crassa regulates morphology. Kana-uchi A, et al. **Mol Gen Genet** 1997 Apr 28;254(4):427–32

A novel yeast gene, RHK1, is involved in the synthesis of the cell wall receptor for the HM-1 killer toxin that inhibits beta-1,3-glucan synthesis. Kimura T, et al. **Mol Gen Genet** 1997 Mar 26;254(2):139–47

Molecular analysis of hus1+, a fission yeast gene required for S-M and DNA damage checkpoints. Kostrub CF, et al. **Mol Gen Genet** 1997 Apr 28;254(4):389–99

UAS(MAG1), a yeast cis-acting element that regulates the expression of MAG1, is located within the protein coding region of DDI1. Liu Y, et al. **Mol Gen Genet** 1997 Aug; 255(5):533–42

The geranylgeranyl diphosphate synthase gene of Gibberella fujikuroi: isolation and expression. Mende K, et al. **Mol Gen Genet** 1997 Jun;255(1):96–105

Superfamily of alpha-galactosidase MEL genes of the Saccharomyces sensu stricto species complex. Naumova ES, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):111–7

The Schizosaccharomyces pombe map1 gene encodes an SRF/MCM1-related protein required for P-cell specific gene expression. Nielsen O, et al. **Mol Gen Genet** 1996 Dec 13;253(3):387–92

Molecular cloning of a gene required for DNA replication in Ustilago maydis. Onel K, et al. **Mol Gen Genet** 1997 Jan 27;253(4):463–8

GRISEA, a putative copper-activated transcription factor from Podospora anserina involved in differentiation and senescence. Osiewacz HD, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):115–24

PWP2, a member of the WD-repeat family of proteins, is an essential Saccharomyces cerevisiae gene involved in cell separation. Shafaatian R, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):101–14

A novel fission yeast gene, kms1+, is required for the formation of meiotic prophase-specific nuclear architecture. Shimanuki M, et al. **Mol Gen Genet** 1997 Apr 16;254(3):238–49

Inactivation of OGG1 increases the incidence of G . C-->T . A transversions in Saccharomyces cerevisiae: evidence for endogenous oxidative damage to DNA in eukaryotic cells. Thomas D, et al. **Mol Gen Genet** 1997 Mar 26; 254(2):171–8

Budding yeast Rad50, Mre11, Xrs2, and Hdf1, but not Rad52, are involved in the formation of deletions on a dicentric plasmid. Tsukamoto Y, et al. **Mol Gen Genet** 1997 Aug; 255(5):543–7

The Aspergillus nidulans lysF gene encodes homoaconitase, an enzyme involved in the fungus-specific lysine biosynthesis pathway. Weidner G, et al. **Mol Gen Genet** 1997 Jul;255(3):237–47

Regions in the Z5 mating gene of Schizophyllum commune involved in Y-Z binding and recognition. Wu J, et al. **Mol Gen Genet** 1996 Oct 28;252(6):739–45

Molecular biology of iron acquisition in Saccharomyces cerevisiae. Askwith CC, et al. **Mol Microbiol** 1996 Apr; 20(1):27–34 (54 ref.)

Cloning of a second gene encoding 5-phosphofructo-2-kinase in yeast, and characterization of mutant strains without fructose-2,6-bisphosphate. Boles E, et al. **Mol Microbiol** 1996 Apr;20(1):65–76

A newly identified gene cluster in Aspergillus nidulans comprises five novel genes localized in the alc region that are controlled both by the specific transactivator AlcR and the general carbon-catabolite repressor CreA. Fillinger S, et al. **Mol Microbiol** 1996 May;20(3):475–88

Signalling pathways leading to transcriptional regulation of genes involved in the activation of glycolysis in yeast. Gonçalves PM, et al. **Mol Microbiol** 1997 Aug;25(3):483–93

The CIT3 gene of Saccharomyces cerevisiae encodes a second mitochondrial isoform of citrate synthase. Jia YK, et al. **Mol Microbiol** 1997 Apr;24(1):53–9

The sxa2-dependent inactivation of the P-factor mating pheromone in the fission yeast Schizosaccharomyces pombe. Ladds G, et al. **Mol Microbiol** 1996 Apr;20(1):35–42

Bidirectional regulation of two DNA-damage-inducible genes, MAG1 and DDI1, from Saccharomyces cerevisiae. Liu Y, et al. **Mol Microbiol** 1997 Feb;23(4):777–89

Identification of proteolytic cleavage sites within the gag-analogue protein of Ty1 virus-like particles. Martin-Rendon E, et al. **Mol Microbiol** 1996 Dec; 22(5):1035–43

Amino acid-dependent regulation of the Saccharomyces cerevisiae GSH1 gene by hydrogen peroxide. Stephen DW, et al. **Mol Microbiol** 1997 Jan;23(2):203–10

A fatty acid synthase gene in Cochliobolus carbonum required for production of HC-toxin, cyclo(D-prolyl-L-alanyl-D-alanyl-L-2-amino-9, 10-epoxi-8-oxodecanoyl). Ahn JH, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):207–14

Endopolygalacturonase genes from Colletotrichum lindemuthianum: cloning of CLPG2 and comparison of its expression to that of CLPG1 during saprophytic and parasitic growth of the fungus. Centis S, et al. **Mol Plant Microbe Interact** 1997 Aug;10(6):769–75

A putative amino acid transporter is specifically expressed in haustoria of the rust fungus Uromyces fabae. Hahn M, et al. **Mol Plant Microbe Interact** 1997 May;10(4):438–45

Characterization of in planta-induced rust genes isolated from a haustorium-specific cDNA library. Hahn M, et al. **Mol Plant Microbe Interact** 1997 May;10(4):427–37

The melanin biosynthesis genes of Alternaria alternata can restore pathogenicity of the melanin-deficient mutants of Magnaporthe grisea. Kawamura C, et al. **Mol Plant Microbe Interact** 1997 May;10(4):446–53

Cloning and expression of the cutinase A gene of Botrytis cinerea. van der Vlugt-Bergmans CJ, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):21–9

Cloning of Schizosaccharomyces pombe rph16+, a gene homologous to the Saccharomyces cerevisiae RAD16 gene. Bang DD, et al. **Mutat Res** 1996 Oct 18;364(2):57–71

Quantitative and qualitative comparisons of spontaneous and radiation-induced specific-locus mutation in the ad-3 region of heterokaryon 12 of Neurospora crassa. de Serres FJ, et al. **Mutat Res** 1997 Apr 14;375(1):37–52

Quantitative and qualitative comparison of spontaneous and chemical-induced specific-locus mutation in the ad-3

region of heterokaryon 12 of Neurospora crassa. de Serres FJ, et al. **Mutat Res** 1997 Apr 14;375(1):53–72

Fission yeast genes which disrupt mitotic chromosome segregation when overexpressed. Javerzat JP, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4676–83

PCR-mediated direct gene disruption in Schizosaccharomyces pombe. Kaur R, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1080–1

Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome. Sauer B. **Nucleic Acids Res** 1996 Dec 1;24(23):4608–13

Sce3, a suppressor of the Schizosaccharomyces pombe septation mutant cdc11, encodes a putative RNA-binding protein. Schmidt S, et al. **Nucleic Acids Res** 1997 Sep 1; 25(17):3433–9

Transcription-coupled and global genome repair in the Saccharomyces cerevisiae RPB2 gene at nucleotide resolution. Tijsterman M, et al. **Nucleic Acids Res** 1996 Sep 15;24(18):3499–506

The distribution of ND genes in yeast mitochondrial genomes and the mitochondrial DNA structure of Pichia membranaefacens. Kitano H, et al. **Nucleic Acids Symp Ser** 1995;(34):23–4

The biotrophic fungus Cladosporium fulvum circumvents Cf-4-mediated resistance by producing unstable AVR4 elicitors. Joosten MH, et al. **Plant Cell** 1997 Mar; 9(3):367–79

Retrofitting YACs for direct DNA transfer into plant cells. Adam G, et al. **Plant J** 1997 Jun;11(6):1349–58

Application of differential display RT-PCR to the analysis of gene expression in a plant-fungus interaction. Benito EP, et al. **Plant Mol Biol** 1996 Dec;32(5):947–57

Double strand breaks at the HIS2 recombination hot spot in Saccharomyces cerevisiae. Bullard SA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13054–9

Extensive alteration of fungal gene transcript accumulation and elevation of G-protein-regulated cAMP levels by a virulence-attenuating hypovirus. Chen B, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7996–8000

The protein product of the het-s heterokaryon incompatibility gene of the fungus Podospora anserina behaves as a prion analog. Coustou V, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9773–8

Rapid evolution of sex-related genes in Chlamydomonas. Ferris PJ, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8634–9

The highly conserved skb1 gene encodes a protein that interacts with Shk1, a fission yeast Ste20/PAK homolog. Gilbreth M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13802–7

Concordance of gene genealogies reveals reproductive isolation in the pathogenic fungus Coccidioides immitis. Koufopanou V, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5478–82

A human homolog of the Schizosaccharomyces pombe rad9+ checkpoint control gene. Lieberman HB, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13890–5

Identification of a new mammalian centrin gene, more closely related to Saccharomyces cerevisiae CDC31 gene. Middendorp S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9141–6

Yeast homologues of higher eukaryotic TFIID subunits. Moqtaderi Z, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14654–8

The yeast peptide-methionine sulfoxide reductase functions as an antioxidant in vivo. Moskovitz J, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9585–9

Cloning and characterization of hOGG1, a human homolog of the OGG1 gene of Saccharomyces cerevisiae. Radicella JP, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22; 94(15):8010–5

Characterization of VPS41, a gene required for vacuolar trafficking and high-affinity iron transport in yeast. Radisky DC, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5662–6

HDA1 and RPD3 are members of distinct yeast histone deacetylase complexes that regulate silencing and transcription. Rundlett SE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14503–8

Identification of fission yeast nuclear markers using random polypeptide fusions with green fluorescent protein. Sawin KE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15146–51

Transitions in the coupling of transcription and nucleotide excision repair within RNA polymerase II-transcribed genes of Saccharomyces cerevisiae. Tijsterman M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8027–32

Identification and characterization of Saccharomyces cerevisiae EXO1, a gene encoding an exonuclease that interacts with MSH2. Tishkoff DX, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7487–92

Hyperthermia and paraquat-induced G1 arrest in the yeast Saccharomyces cerevisiae is independent of the RAD9 gene. Nunes E, et al. **Radiat Environ Biophys** 1996 Feb; 35(1):55–7

New cell cycle-regulated genes in the yeast Saccharomyces cerevisiae. Schuster T, et al. **Recent Results Cancer Res** 1997;143:251–61 (42 ref.)

YRA1, an essential Saccharomyces cerevisiae gene, encodes a novel nuclear protein with RNA annealing activity. Portman DS, et al. **RNA** 1997 May;3(5):527–37

Cloning and expression of Kluyveromyces fragilis LAC4 gene. Huo K, et al. **Sci China B** 1995 Nov;38(11):1332–40

Yeast as a model organism [comment] Botstein D, et al. **Science** 1997 Aug 29;277(5330):1259–60. Comment on: Science 1997 Aug 29;277(5330):1313–6.

Life with 6000 genes [see comments] Goffeau A, et al. **Science** 1996 Oct 25;274(5287):546, 563–7 (86 ref.). Comment in: Science 1997 Feb 21;275(5303):1051–2.

Functional analysis of the genes of yeast chromosome V by genetic footprinting. Smith V, et al. **Science** 1996 Dec 20; 274(5295):2069–74

Characterization of a new ribotoxin gene (c-sar) from Aspergillus clavatus. Huang KC, et al. **Toxicon** 1997 Mar; 35(3):383–92

The protein kinases of budding yeast: six score and more. Hunter T, et al. **Trends Biochem Sci** 1997 Jan;22(1):18–22 (39 ref.)

At the heart of the budding yeast cell cycle. Nasmyth K. **Trends Genet** 1996 Oct;12(10):405–12 (68 ref.)

Sequence analysis of a 12 801 bp fragment of the left arm of yeast chromosome XV containing a putative 6-phosphofructo-2-kinase gene, a gene for a possible glycophospholipid-anchored surface protein and six other open reading frames. Aldea M, et al. **Yeast** 1996 Sep;12(10B Suppl):1053–8

A Candida albicans gene encoding a DNA ligase. Andaluz E, et al. **Yeast** 1996 Jul;12(9):893–8

Isolation of three contiguous genes, ACR1, ACR2 and ACR3, involved in resistance to arsenic compounds in the yeast Saccharomyces cerevisiae. Bobrowicz P, et al. **Yeast** 1997 Jul;13(9):819–28

Constitutive flocculation in Saccharomyces cerevisiae through overexpression of the GTS1 gene, coding for a 'Glo'-type Zn-finger-containing protein. Bossier P, et al. **Yeast** 1997 Jun 30;13(8):717–25

Sequence analysis of a 13.4 kbp fragment from the left arm of chromosome XV reveals a malate dehydrogenase gene, a putative Ser/Thr protein kinase, the ribosomal L25 gene and four new open reading frames. Casamayor A, et al. **Yeast** 1996 Sep;12(10B Suppl):1013–20

Yeast PIG genes: PIG1 encodes a putative type 1 phosphatase subunit that interacts with the yeast glycogen synthase Gsy2p. Cheng C, et al. **Yeast** 1997 Jan;13(1):1–8

The essential Schizosaccharomyces pombe gpi1+ gene complements a bakers' yeast GPI anchoring mutant and is required for efficient cell separation. Colussi PA, et al. **Yeast** 1997 Feb;13(2):139–50

Identification of genes with nutrient-controlled expression by PCR-mapping in the yeast Saccharomyces cerevisiae. Crauwels M, et al. **Yeast** 1997 Aug;13(10):973–84

HST1, a new member of the SIR2 family of genes. Derbyshire MK, et al. **Yeast** 1996 Jun 15;12(7):631–40

The KNH1 gene of Saccharomyces cerevisiae is a functional homolog of KRE9. Dijkgraaf GJ, et al. **Yeast** 1996 Jun 15;12(7):683–92

The characterization of two new clusters of duplicated genes suggests a 'Lego' organization of the yeast Saccharomyces cerevisiae chromosomes. Feuermann M, et al. **Yeast** 1997 Jul;13(9):861–9

Cloning and identification of HEM14, the yeast gene for mitochondrial protoporphyrinogen oxidase. Glerum DM, et al. **Yeast** 1996 Nov;12(14):1421–5

Isolation and characterization of the KlHEM1 gene in Kluyveromyces lactis. González-Domínguez M, et al. **Yeast** 1997 Aug;13(10):961–71

Sequencing of a 17.6 kb segment on the right arm of yeast chromosome VII reveals 12 ORFs, including CCT, ADE3 and TR-I genes, homologues of the yeast PMT and EF1G genes, of the human and bacterial electron-transferring flavoproteins (beta-chain) and of the Escherichia coli phosphoserine phosphohydrolase, and five new ORFs. Guerreiro P, et al. **Yeast** 1996 Mar 15;12(3):273–80

The sequence of a 23.4 kb segment on the right arm of chromosome VII from Saccharomyces cerevisiae reveals CLB6, SPT6, RP28A and NUP57 genes, a Ty3 element and 11 new open reading frames. Hansen M, et al. **Yeast** 1996 Sep 30;12(12):1273–7

Cloning and characterization of the KlDIM1 gene from Kluyveromyces lactis encoding the m2(6)A dimethylase of the 18S rRNA. Housen I, et al. **Yeast** 1997 Jun 30; 13(8):777–81

Disruption of six novel yeast genes reveals three genes essential for vegetative growth and one required for growth at low temperature. Huang ME, et al. **Yeast** 1997 Sep 30; 13(12):1181–94

Identification of ACT4, a novel essential actin-related gene in the yeast Saccharomyces cerevisiae. Huang ME, et al. **Yeast** 1996 Jul;12(9):839–48

The Saccharomyces cerevisiae MFS superfamily SGE1 gene confers resistance to cationic dyes. Jacquot C, et al. **Yeast** 1997 Aug;13(10):891–902

SHM1: a multicopy suppressor of a temperature-sensitive null mutation in the HMG1-like abf2 gene. Kao LR, et al. **Yeast** 1996 Sep 30;12(12):1239–50

Sequence analysis of a 40.7 kb segment from the left arm of yeast chromosome X reveals 14 known genes and 13 new open reading frames including homologues of genes clustered on the right arm of chromosome XI. Katsoulou C, et al. **Yeast** 1996 Jun 30;12(8):787–97

Characterization of the checkpoint gene RAD53/MEC2 in Saccharomyces cerevisiae. Kim S, et al. **Yeast** 1997 Jun 30;13(8):735–45

A putative helicase, the SUA5, PMR1, tRNALys1 genes and four open reading frames have been detected in the DNA sequence of an 8.8 kb fragment of the left arm of chromosome VII of Saccharomyces cerevisiae. Klima R, et al. **Yeast** 1996 Sep;12(10B Suppl):1033–40

Functional characterization of the repeated UASINO element in the promoters of the INO1 and CHO2 genes of yeast. Koipally J, et al. **Yeast** 1996 Jun 15;12(7):653–65

Molecular, functional and evolutionary characterization of the gene encoding HMG-CoA reductase in the fission yeast, Schizosaccharomyces pombe. Lum PY, et al. **Yeast** 1996 Sep 15;12(11):1107–24

Sticky-end polymerase chain reaction method for systematic gene disruption in Saccharomyces cerevisiae. Maftahi M, et al. **Yeast** 1996 Jul;12(9):859–68

Isolation and characterization of a delta-9 fatty acid desaturase gene from the oleaginous yeast Cryptococcus curvatus CBS 570. Meesters PA, et al. **Yeast** 1996 Jun 30; 12(8):723–30

Sequence analysis of the CEN12 region of Saccharomyces cerevisiae on a 43.7 kb fragment of chromosome XII including an open reading frame homologous to the human cystic fibrosis transmembrane conductance regulator protein CFTR. Miosga T, et al. **Yeast** 1996 Jun 15; 12(7):693–708

Cloning of Candida albicans SEC14 gene homologue coding for a putative essential function. Monteoliva L, et al. **Yeast** 1996 Sep 15;12(11):1097–105

Isolation and characterization of the Candida albicans PFY1 gene for profilin. Ostrander DB, et al. **Yeast** 1997 Jul; 13(9):871–80

Identification of ASK10 as a multicopy activator of Skn7p-dependent transcription of a HIS3 reporter gene. Page N, et al. **Yeast** 1996 Mar 15;12(3):267–72

Mutational analysis of the gene for Schizosaccharomyces pombe RNase MRP RNA, mrp1, using plasmid shuffle by counterselection on canavanine. Paluh JL, et al. **Yeast** 1996 Nov;12(14):1393–405

The DNA sequence of cosmid 14-5 from chromosome XIV reveals 21 open reading frames including a novel gene encoding a globin-like domain. Pandolfo D, et al. **Yeast** 1996 Sep;12(10B Suppl):1071–6

The Candida albicans PKC1 gene encodes a protein kinase C homolog necessary for cellular integrity but not dimorphism. Paravicini G, et al. **Yeast** 1996 Jun 30; 12(8):741–56

Sequence of 29 kb around the PDR10 locus on the right arm of Saccharomyces cerevisiae chromosome XV: similarity to part of chromosome I. Parle-McDermott AG, et al. **Yeast** 1996 Sep;12(10B Suppl):999–1004

BTN1, a yeast gene corresponding to the human gene responsible for Batten's disease, is not essential for viability, mitochondrial function, or degradation of mitochondrial ATP synthase. Pearce DA, et al. **Yeast** 1997 Jun 30; 13(8):691–7

Cloning of the Penicillium minioluteum gene encoding dextranase and its expression in Pichia pastoris. Roca H, et al. **Yeast** 1996 Sep 30;12(12):1187–200

Mapping of gene controlling thiamine transport in Saccharomyces cerevisiae. Ruml T, et al. **Yeast** 1996 Sep 30;12(12):1279–83

A set of genetic markers for the chromosomes of the imperfect yeast Arxula adeninivorans. Samsonova IA, et al. **Yeast** 1996 Sep 30;12(12):1209–17

Isolation of a gene encoding a G protein alpha subunit involved in the regulation of cAMP levels in the yeast Kluyveromyces lactis. Saviñón-Tejeda AL, et al. **Yeast** 1996 Sep 15;12(11):1125–33

Sequence analysis of the Candida albicans ADE2 gene and physical separation of the two functionally distinct domains of the phosphoribosylaminoimidazole carboxylase. Schmuke JJ, et al. **Yeast** 1997 Jun 30;13(8):769–76

Cloning of the multicopy suppressor gene SUR7: evidence for a functional relationship between the yeast actin-binding protein Rvs167 and a putative membranous protein. Sivadon P, et al. **Yeast** 1997 Jun 30;13(8):747–61

The sequence of a 30 kb fragment on the left arm of chromosome XV from Saccharomyces cerevisiae reveals 15 open reading frames, five of which correspond to previously identified genes. Sterky F, et al. **Yeast** 1996 Sep; 12(10B Suppl):1091–5

Identification and characterization of cytosolic Hansenula polymorpha proteins belonging to the Hsp70 protein family. Titorenko VI, et al. **Yeast** 1996 Jul;12(9):849–57

Characterization of CHS4 (CAL2), a gene of Saccharomyces cerevisiae involved in chitin biosynthesis and allelic to SKT5 and CSD4. Trilla JA, et al. **Yeast** 1997 Jul; 13(9):795–807

Sequence analysis of a 33.2 kb segment from the left arm of yeast chromosome XV reveals eight known genes and ten new open reading frames including homologues of ABC transporters, inositol phosphatases and human expressed sequence tags. Tzermia M, et al. **Yeast** 1997 May; 13(6):583–9

The sequence of 23 kb surrounding the SNF3 locus on the left arm of yeast chromosome IV reveals the location of five known genes and characterizes at least six new open reading frames including putative genes for ribosomal protein L35 and a sugar transport protein. Verhasselt P, et al. **Yeast** 1996 Sep;12(10B Suppl):1065–70

Structural and phylogenetic analysis of the actin gene from the yeast Phaffia rhodozyma. Wery J, et al. **Yeast** 1996

Jun 15;12(7):641–51

Sequencing and analysis of 51 kb on the right arm of chromosome XV from Saccharomyces cerevisiae reveals 30 open reading frames. Wiemann S, et al. **Yeast** 1996 Mar 15;12(3):281–8

Isolation and characterization of the Schizosaccharomyces pombe gene encoding transcript elongation factor TFIIS. Williams LA, et al. **Yeast** 1996 Mar 15;12(3):227–36

[Interaction between yeast transcription factor GAL11 and general transcription factors] Sakurai H, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1178–86 (70 ref.) **(Jpn)**

[Molecular cloning and characterization of cDNA of the rpc10+ gene encoding the smallest subunit of nuclear RNA polymerases of Schizosaccharomyces pombe] Shpakovskiĭ GV, et al. **Bioorg Khim** 1997 May;23(5):441–8 (Eng. Abstr.) **(Rus)**

[A simple method of selecting Saccharomyces cerevisiae ade1 and ade2 mutants] Alenin VV, et al. **Genetika** 1997 Jun; 33(6):858–61 (Eng. Abstr.) **(Rus)**

[Mutator genes from Saccharomyces cerevisiae. Repair of artificial heteroduplexes in him and hsm mutants] Gracheva LM, et al. **Genetika** 1996 Jul;32(7):922–6 (Eng. Abstr.) **(Rus)**

[Mutator genes from Saccharomyces cerevisiae. Interaction between HIM- and HSM-genes] Koval'tsova SV, et al. **Genetika** 1996 Jul;32(7):927–32 (Eng. Abstr.) **(Rus)**

[Mutator genes of the yeast Saccharomyces cerevisiae. Interaction of mutations him and his with mutations blocking three principal pathways of repair of induced DNA damage] Koval'tsova SV, et al. **Genetika** 1996 Aug; 32(8):1061–7 (Eng. Abstr.) **(Rus)**

[Structural and functional chromatin organization of the SUP35 gene in Saccharomyces cerevisiae yeast] Riabinkova NA, et al. **Genetika** 1997 Apr;33(4):451–7 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Fungal virulence genes as targets for antifungal chemotherapy. Perfect JR. **Antimicrob Agents Chemother** 1996 Jul;40(7):1577–83 (85 ref.)

Effect of heme and vacuole deficiency on FRE1 gene expression and ferrireductase activity in Saccharomyces cerevisiae. Amillet JM, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):25–9

Camptothecin sensitivity is mediated by the pleiotropic drug resistance network in yeast. Reid RJ, et al. **J Biol Chem** 1997 May 2;272(18):12091–9

Regulated nuclear translocation of the Mig1 glucose repressor. De Vit MJ, et al. **Mol Biol Cell** 1997 Aug; 8(8):1603–18

Characterization of two new genes down-regulated by alpha-factor. Seidel J, et al. **Yeast** 1997 Jul;13(9):809–17

GENETICS

Genetics of Ustilago maydis, a fungal pathogen that induces tumors in maize. Banuett F. **Annu Rev Genet** 1995; 29:179–208 (111 ref.)

Direct PCR screening of Pichia pastoris clones. Linder S, et al. **Biotechniques** 1996 Jun;20(6):980–2

cAMP-dependent protein kinase is required for the expression of a gene specifically expressed in Dictyostelium prestalk cells. Zhukovskaya N, et al. **Dev Biol** 1996 Oct 10;179(1):27–40

Identification of the coding region of Saccharomyces cerevisiae chromosome VI using the computer program GenMark. Hagiwara H, et al. **DNA Res** 1995 Dec 31; 2(6):247–53

Histone octamer function in vivo: mutations in the dimer-tetramer interfaces disrupt both gene activation and repression. Santisteban MS, et al. **EMBO J** 1997 May 1; 16(9):2493–506

Efg1p, an essential regulator of morphogenesis of the human pathogen Candida albicans, is a member of a conserved class of bHLH proteins regulating morphogenetic processes in fungi. Stoldt VR, et al. **EMBO J** 1997 Apr 15; 16(8):1982–91

Cell type-specific chromatin organization of the region that governs directionality of yeast mating type switching. Weiss K, et al. **EMBO J** 1997 Jul 16;16(14):4352–60

Nucleosome structure and positioning modulate nucleotide excision repair in the non-transcribed strand of an active gene. Wellinger RE, et al. **EMBO J** 1997 Aug 15; 16(16):5046–56

Serine-threonine protein kinase activity of Elm1p, a regulator of morphologic differentiation in Saccharomyces cerevisiae. Koehler CM, et al. **FEBS Lett** 1997 May 12; 408(1):109–14

Biochemical evidence that Saccharomyces cerevisiae YGR262c gene, required for normal growth, encodes a novel Ser/Thr-specific protein kinase. Stocchetto S, et al. **FEBS Lett** 1997 Sep 1;414(1):171–5

Cloning and sequence analysis of the Rhizobium etli ccmA and ccmB genes involved in c-type cytochrome biogenesis. Aguilar GR, et al. **Gene** 1996 Dec 5;182(1–2):129–35

Cloning and sequencing of the gene encoding tannase and a structural study of the tannase subunit from Aspergillus oryzae [published erratum appears in Gene 1997 Feb 20;186(1):153] Hatamoto O, et al. **Gene** 1996 Oct 10; 175(1–2):215–21

High copy number integration into the ribosomal DNA of the yeast Phaffia rhodozyma. Wery J, et al. **Gene** 1997 Jan 3;184(1):89–97

Multicopy suppressors of temperature-sensitive mutations of yeast mRNA capping enzyme. Schwer B, et al. **Gene Expr** 1996;5(6):331–44

The Schizosaccharomyces pombe mra1 gene, which is required for cell growth and mating, can suppress the mating inefficiency caused by a deficit in the Ras1 activity. Hakuno F, et al. **Genes Cells** 1996 Mar;1(3):303–15

Filamentous growth of the budding yeast Saccharomyces cerevisiae induced by overexpression of the WHi2 gene. Radcliffe PA, et al. **Microbiology** 1997 Jun;143 (Pt 6):1867–76

Yeast actin cytoskeleton mutants accumulate a new class of Golgi-derived secretary vesicle. Mulholland J, et al. **Mol Biol Cell** 1997 Aug;8(8):1481–99

Identification of RNR4, encoding a second essential small subunit of ribonucleotide reductase in Saccharomyces cerevisiae. Huang M, et al. **Mol Cell Biol** 1997 Oct; 17(10):6105–13

The 39-kilodalton subunit of eukaryotic translation initiation factor 3 is essential for the complex's integrity and for cell viability in Saccharomyces cerevisiae. Naranda T, et al. **Mol Cell Biol** 1997 Jan;17(1):145–53

Rnr4p, a novel ribonucleotide reductase small-subunit protein. Wang PJ, et al. **Mol Cell Biol** 1997 Oct; 17(10):6114–21

Two uvs genes of Aspergillus nidulans with different functions in error-prone repair: uvsI, active in mutation-specific reversion, and uvsC, a recA homolog, required for all UV mutagenesis. Chae SK, et al. **Mol Gen Genet** 1997 May;254(6):643–53

Chromosomal heteromorphism linked to the mating type locus of the oomycete Phytophthora infestans. Judelson HS. **Mol Gen Genet** 1996 Aug 27;252(1–2):155–61

Region-specific meiotic recombination in Schizosaccharomyces pombe: the rec11 gene. Li YF, et al. **Mol Microbiol** 1997 Mar;23(5):869–78

Translocation of surface antigen genes to a unique telomeric expression site in Pneumocystis carinii. Sunkin SM, et al. **Mol Microbiol** 1996 Jan;19(2):283–95

The CDC6 gene is required for centromeric, episomal, and 2-microns plasmid stability in the yeast Saccharomyces cerevisiae. Storici F, et al. **Plasmid** 1995 Nov;34(3):184–97

The nucleotide sequence of a 39 kb segment of yeast chromosome IV: 12 new open reading frames, nine known genes and one genes for Gly-tRNA. Bahr A, et al. **Yeast** 1997 Feb;13(2):163–9

Characterization of the SAC3 gene of Saccharomyces cerevisiae. Bauer A, et al. **Yeast** 1996 Aug;12(10):965–75

Analysis of a 35.6 kb region on the right arm of Saccharomyces cerevisiae chromosome XV. Bordonné R, et al. **Yeast** 1997 Jan;13(1):73–83

Sequencing of a 40.5 kb fragment located on the left arm of chromosome VII from Saccharomyces cerevisiae. Coglievina M, et al. **Yeast** 1997 Jan;13(1):55–64

Analysis of a 17.9 kb region from Saccharomyces cerevisiae chromosome VII reveals the presence of eight open reading frames, including BRF1 (TFIIIB70) and GCN5 genes. Feroli F, et al. **Yeast** 1997 Mar 30;13(4):373–7

Analysis of 21.7 kb DNA sequence from the left arm of chromosome VII reveals 11 open reading frames: two correspond to new genes. Feuermann M, et al. **Yeast** 1997 Apr;13(5):475–7

The RAD29 gene: map position on the right arm of chromosome II. Kozhin SA, et al. **Yeast** 1997 Apr; 13(5):489–90

Sequence analysis of a 10.5 kb DNA fragment from the yeast chromosome VII reveals the presence of three new open reading frames and of a tRNAThr gene. Mazzoni C, et al. **Yeast** 1997 Mar 30;13(4):369–72

Expression of the SUC2 gene of Saccharomyces cerevisiae is induced by low levels of glucose. Ozcan S, et al. **Yeast** 1997 Feb;13(2):127–37

The genes encoding the transcription factor yTAFII60, the G4p1 protein and a putative glucose transporter are contained in a 12.3 kb DNA fragment on the left arm of Saccharomyces cerevisiae chromosome VII. Paoluzi S, et al. **Yeast** 1997 Jan;13(1):85–91

Galactose-inducible expression systems in Candida maltosa using promoters of newly-isolated GAL1 and GAL10 genes. Park SM, et al. **Yeast** 1997 Jan;13(1):21–9

Understanding Candida albicans at the molecular level. Pla J, et al. **Yeast** 1996 Dec;12(16):1677–702 (318 ref.)

Isolation of a Schizosaccharomyces pombe gene which in high copy confers resistance to the nucleoside analogue 5-azacytidine. Platt GM, et al. **Yeast** 1997 Apr;13(5):463–74

Sequence and analysis of a 36.2 kb fragment from the right arm of yeast chromosome XV reveals 19 open reading frames including SNF2 (5'end), CPA1, SLY41, a putative transport ATPase, a putative ribosomal protein and an SNF2 homologue. Poirey R, et al. **Yeast** 1997 Apr; 13(5):479–82

Sequencing analysis of a 36.8 kb fragment of yeast chromosome XV reveals 26 open reading frames including SEC63, CDC31, SUG2, GCD1, RBL2, PNT1, PAC1 and VPH1. Poirey R, et al. **Yeast** 1997 Apr;13(5):483–7

The sequence of 32b on the left arm of yeast chromosome XII reveals six known genes, a new member of the seripauperins family and a new ABS transporter homologous to the human multidrug resistance protein. Purnelle B, et al. **Yeast** 1997 Feb;13(2):183–8

The sequence of a 8 kb segment on the right arm of yeast chromosome VII identifies four new open reading frames and the genes for yTAFII145. Ruzzi M, et al. **Yeast** 1997 Mar 30;13(4):365–8

The sequence of a 36.7 kb segment on the left arm of chromosome IV from Saccharomyces cerevisiae reveals 20 non-overlapping open reading frames (ORFs) including SIT4, FAD1, NAM1, RNA11, SIR2, NAT1, PRP9, ACT2 and MPS1 and 11 new ORFs. Sarén AM, et al. **Yeast** 1997 Jan;13(1):65–71

An 18.3 kb DNA fragment from yeast chromosome VII carries four unknown open reading frames, the gene for an Asn synthase, remnants of Ty and three tRNA genes. Van Dyck L, et al. **Yeast** 1997 Feb;13(2):171–6

The sequence of a nearly unclonable 22.8 kb segment on the left arm chromosome VII from Saccharomyces cerevisiae reveals ARO2, RPL9A, TIP1, MRF1 genes and six new open reading frames. Voet M, et al. **Yeast** 1997 Feb;13(2):177–82

[The cloning and expression of the beta-galactosidase gene of Candida pseudotropicalis yeasts in Escherichia coli cells] Tretiak KA, et al. **Mikrobiol Z** 1997 Jan-Feb;59(1):11–7 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Characterization of the function of the ver-1A and ver-1B genes, involved in aflatoxin biosynthesis in Aspergillus parasiticus. Liang SH, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4568–75

Repeat-induced gene silencing: common mechanisms in plants and fungi. Meyer P. **Biol Chem Hoppe Seyler** 1996 Feb;377(2):87–95 (91 ref.)

Linking approaches in the study of fungal pathogenesis: a commentary. Hamer JE, et al. **Fungal Genet Biol** 1996 Feb; 21(1):11–6

CDNA cloning of p112, the largest regulatory subunit of the human 26s proteasome, and functional analysis of its yeast homologue, sen3p. Yokota K, et al. **Mol Biol Cell** 1996 Jun;7(6):853–70

Stationary-phase regulation of the Saccharomyces cerevisiae SOD2 gene is dependent on additive effects of HAP2/3/4/5- and STRE-binding elements. Flattery-O'Brien JA, et al. **Mol Microbiol** 1997 Jan; 23(2):303–12

The Saccharomyces cerevisiae RAD7 and RAD16 genes are required for inducible excision of endonuclease III sensitive-sites, yet are not needed for the repair of these lesions following a single UV dose. Scott AD, et al. **Mutat Res** 1997 Jan 31;383(1):39–48

Bioinformatics and the discovery of gene function. Casari G, et al. **Trends Genet** 1996 Jul;12(7):244–5

Towards a complete understanding of how a simple eukaryotic cell works. Johnston M. **Trends Genet** 1996 Jul; 12(7):242–3

Mating systems in ascomycetes: a romp in the sac. Nelson MA. **Trends Genet** 1996 Feb;12(2):69–74

Rapid amplification of uncharacterized transposon-tagged DNA sequences from genomic DNA. Chun KT, et al. **Yeast** 1997 Mar 15;13(3):233–40

Advancement through mitosis requires rae1 gene function in fission yeast. Whalen WA, et al. **Yeast** 1997 Sep 30; 13(12):1167–79

GENES, GAG

Characterization of human foamy virus proteins expressed by recombinant vaccinia viruses. Fischer N, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10;13(6):517–21

HIV type 2 pathogenicity is not related to subtype in rural Guinea Bissau. Xiang Z, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10;13(6):501–5

TAR decoys and trans-dominant gag mutant for HIV-1 gene therapy. Lisziewicz J. **Antibiot Chemother** 1996;48:192–7 (17 ref.)

Virus load in chimpanzees infected with human immunodeficiency virus type 1: effect of pre-exposure vaccination. ten Haaft P, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1015–20

The major homology region of bovine leukaemia virus p24gag is required for virus infectivity in vivo. Willems L, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):637–40

Development of pathological lesions in the central nervous system of transgenic mice expressing the env gene of ts1 Moloney murine leukemia virus in the absence of the viral gag and pol genes and viral replication. Yu YE, et al. **J Neurovirol** 1997 Aug;3(4):274–82

Cloning of a new murine endogenous retrovirus, MuERV-L, with strong similarity to the human HERV-L element and with a gag coding sequence closely related to the Fv1 restriction gene. Bénit L, et al. **J Virol** 1997 Jul;71(7):5652–7

Characterization of the spliced pol transcript of feline foamy virus: the splice acceptor site of the pol transcript is located in gag of foamy viruses. Bodem J, et al. **J Virol** 1996 Dec; 70(12):9024–7

The simian foamy virus type 1 transcriptional transactivator (Tas) binds and activates an enhancer element in the gag gene. Campbell M, et al. **J Virol** 1996 Oct;70(10):6847–55

Human immunodeficiency virus type 1 subtypes defined by env show high frequency of recombinant gag genes. The UNAIDS Network for HIV Isolation and Characterization. Cornelissen M, et al. **J Virol** 1996 Nov;70(11):8209–12

GENES, GAG

Investigation of the dynamics of the spread of human immunodeficiency virus to brain and other tissues by evolutionary analysis of sequences from the p17gag and env genes. Hughes ES, et al. **J Virol** 1997 Feb;71(2):1272–80

The cytopathicity of a simian immunodeficiency virus Mne variant is determined by mutations in Gag and Env. Kimata JT, et al. **J Virol** 1997 Oct;71(10):7629–39

Tempo and mode of nucleotide substitutions in gag and env gene fragments in human immunodeficiency virus type 1 populations with a known transmission history. Leitner T, et al. **J Virol** 1997 Jun;71(6):4761–70

Defective herpes simplex virus type 1 vectors harboring gag, pol, and env genes can be used to rescue defective retrovirus vectors. Savard N, et al. **J Virol** 1997 May; 71(5):4111–7

Inactivation of the human immunodeficiency virus type 1 inhibitory elements allows Rev-independent expression of Gag and Gag/protease and particle formation. Schneider R, et al. **J Virol** 1997 Jul;71(7):4892–903

Intrapatient sequence variation of the gag gene of human immunodeficiency virus type 1 plasma virions. Yoshimura FK, et al. **J Virol** 1996 Dec;70(12):8879–87

Possible origin of murine AIDS-inducing sequence. Kubo Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:163–6

Intracellular routing and inhibitory activity of oligonucleopeptides containing a KDEL motif. Pichon C, et al. **Mol Pharmacol** 1997 Mar;51(3):431–8

The effects of internal primer-template mismatches on RT-PCR: HIV-1 model studies. Christopherson C, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):654–8

Accurate reconstruction of a known HIV-1 transmission history by phylogenetic tree analysis. Leitner T, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10864–9

Production of infectious recombinant Moloney murine leukemia virus particles in BHK cells using Semliki Forest virus-derived RNA expression vectors. Li KJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11658–63

The molecular epidemiology of human immunodeficiency virus type 1 in six cities in Britain and Ireland. Brown AJ, et al. **Virology** 1997 Aug 18;235(1):166–77

Characterization of Rev function using subgenomic and genomic constructs in T and COS cells. Favaro JP, et al. **Virology** 1997 Feb 3;228(1):29–38

R7, a spontaneous mutant of Moloney murine sarcoma virus 124 with three direct repeats and an in-frame truncated gag-mos gene, induces brain lesions. Yuen PH, et al. **Virology** 1997 Sep 15;236(1):213–8

GENETICS

Expression of feline immunodeficiency virus (FIV) gag gene in vaccinia virus vector. Wojcik J. **Acta Microbiol Pol** 1995; 44(2):191–6

Intracellular expression of RNA transcripts complementary to the human immunodeficiency virus type 1 gag gene inhibits viral replication in human CD4+ lymphocytes. Veres G, et al. **J Virol** 1996 Dec;70(12):8792–800

Quantitation of feline immunodeficiency proviruses in doubly infected cats using competitive PCR and a fluorescence-based RFLP. Cammarota G, et al. **J Virol Methods** 1996 Oct;62(1):21–31

GENES, H-2 CLASS I see **GENES, MHC CLASS I**

GENES, HELMINTH

Genetic markers in ribosomal DNA for hookworm identification. Gasser RB, et al. **Acta Trop** 1996 Sep; 62(1):15–21

Cloning and mapping of a ryanodine receptor homolog gene of Caenorhabditis elegans. Sakube Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:540–5

A novel trans-spliced mRNA from Onchocerca volvulus encodes a functional S-adenosylmethionine decarboxylase. Da'Dara AA, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):519–30

Gene structure and organization in Caenorhabditis elegans. Blumenthal T, et al. **Curr Opin Genet Dev** 1996 Dec; 6(6):692–8 (34 ref.)

Caenorhabditis elegans HOM-C genes regulate the response of vulval precursor cells to inductive signal. Clandinin TR, et al. **Dev Biol** 1997 Feb 1;182(1):150–61

The Caenorhabditis elegans orphan nuclear hormone receptor gene nhr-2 functions in early embryonic development. Sluder AE, et al. **Dev Biol** 1997 Apr 15; 184(2):303–19

Planarian Hox genes: novel patterns of expression during regeneration. Bayascas JR, et al. **Development** 1997 Jan; 124(1):141–8

Genes necessary for C. elegans cell and growth cone migrations. Forrester WC, et al. **Development** 1997 May; 124(9):1831–43

cdh-3, a gene encoding a member of the cadherin superfamily, functions in epithelial cell morphogenesis in Caenorhabditis elegans. Pettitt J, et al. **Development** 1996 Dec;122(12):4149–57

VP16-activation of the C. elegans neural specification transcription factor UNC-86 suppresses mutations in downstream genes and causes defects in neural migration and axon outgrowth. Sze JY, et al. **Development** 1997 Mar; 124(6):1159–68

Genes that guide growth cones along the C. elegans ventral nerve cord. Wightman B, et al. **Development** 1997 Jul; 124(13):2571–80

Sequence comparison of ACE-1, the gene encoding acetylcholinesterase of class A, in the two nematodes Caenorhabditis elegans and Caenorhabditis briggsae. Grauso M, et al. **DNA Seq** 1996;6(4):217–27

Isolation of the gene coding for Caenorhabditis elegans Rac2 homologue, a Ras-related small GTP-binding protein. Chen W, et al. **Gene** 1996 Nov 21;180(1–2):217–9

cut-1-like genes of Ascaris lumbricoides. Timinouni M, et al. **Gene** 1997 Jul 1;193(1):81–7

An activating mutation in a Caenorhabditis elegans Gs protein induces neural degeneration. Korswagen HC, et al. **Genes Dev** 1997 Jun 15;11(12):1493–503

The Caenorhabditis elegans spe-5 gene is required for morphogenesis of a sperm-specific organelle and is associated with an inherent cold-sensitive phenotype. Machaca K, et al. **Genetics** 1997 Jun;146(2):567–81

Genes affecting sensitivity to serotonin in Caenorhabditis elegans. Schafer WR, et al. **Genetics** 1996 Jul; 143(3):1219–30

Evidence for hybridisation between Paramacropostrongylus iugalis and P. typicus (Nematoda:Strongyloidea) in grey kangaroos, Macropus fuliginosus and M. giganteus, in a zone of sympatry in eastern Australia. Chilton NB, et al. **Int J Parasitol** 1997 May;27(5):475–82

Beta-tubulin gene polymorphism and benzimidazole resistance in trichostrongylus colubriformis. Grant WN, et al. **Int J Parasitol** 1996 Jan;26(1):71–7

Molecular delineation of Cylicocyclus nassatus and C. ashworthi (Nematoda:Strongylidae). Hung GC, et al. **Int J Parasitol** 1997 May;27(5):601–5

Some molecular insights into schistosome evolution. Rollinson D, et al. **Int J Parasitol** 1997 Jan;27(1):11–28 (111 ref.)

Use of molecular data to discriminate pseudocerotid turbellarians. Goggin CL, et al. **J Helminthol** 1996 Jun; 70(2):123–6

Molecular evidence for Acanthocephala as a subtaxon of Rotifera. Garey JR, et al. **J Mol Evol** 1996 Sep;43(3):287–92

A new transmembrane 4 superfamily molecule in the nematode, Caenorhabditis elegans [letter] Tomlinson MG, et al. **J Mol Evol** 1996 Sep;43(3):312–4

Cloning and sequencing of the gene encoding the principal 18-kDa secreted antigen of activated oncospheres of Taenia saginata. Benitez L, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):265–8

Stage-specific gene expression in Angiostrongylus cantonensis: characterisation and expression of an adult-specific gene. Bessarab IN, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):73–84

Genes expressed in Brugia malayi infective third stage larvae. Blaxter ML, et al. **Mol Biochem Parasitol** 1996 Apr; 77(1):77–93

Stage-specific expression of a selectable marker in Toxoplasma gondii permits selective inhibition of either tachyzoites or bradyzoites. Bohne W, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):115–26

Molecular cloning of a Schistosoma mansoni protein expressed in the gynecophoral canal of male worms. Bostic JR, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):79–89

Molecular cloning of a myoD-like gene from the parasitic nematode, Trichinella spiralis. Connolly B, et al. **Mol Biochem Parasitol** 1996 Oct 30;81(2):137–49

Characterization of an acetylcholine receptor gene of Haemonchus contortus in relation to levamisole resistance. Hoekstra R, et al. **Mol Biochem Parasitol** 1997 Feb; 84(2):179–87

Cuticular collagen genes from the parasitic nematode Ostertagia circumcincta. Johnstone IL, et al. **Mol Biochem Parasitol** 1996 Sep;80(1):103–12

Phylogenetic analysis of a fish tapeworm, Proteocephalus exiguus, based on the small subunit rRNA gene. Král'ová I, et al. **Mol Biochem Parasitol** 1997 Feb;84(2):263–6

Biochemical analysis, gene structure and localization of the 24 kDa glutathione S-transferase from Onchocerca volvulus. Liebau E, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):27–39

Molecular cloning and expression of the gene encoding a cysteine proteinase of Spirometra erinacei. Liu DW, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):11–21

Stage specific gene expression in the post-infective L3 of the filarial nematode, Brugia pahangi. Martin SA, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):109–12

Cloning of two actin genes from Schistosoma mansoni. Oliveira GC, et al. **Mol Biochem Parasitol** 1995 Dec; 75(1):119–22

Cloning and characterization of two genes encoding Schistosoma mansoni elastase. Pierrot C, et al. **Mol Biochem Parasitol** 1995 Dec;75(1):113–7

Cloning and characterization of cDNAs encoding putative glutamate transporters from Caenorhabditis elegans and Onchocerca volvulus. Radice AD, et al. **Mol Biochem Parasitol** 1996 Sep;80(1):41–53

Identification and characterization of the Meloidogyne incognita col1 cuticle collagen gene. Ray C, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):121–4

Sequence analysis of a gene family encoding Taenia ovis vaccine antigens expressed during embryogenesis of eggs. Waterkeyn J, et al. **Mol Biochem Parasitol** 1997 May; 86(1):75–84

Post-transcriptional regulation of sex determination in Caenorhabditis elegans: widespread expression of the sex-determining gene fem-1 in both sexes. Gaudet J, et al. **Mol Biol Cell** 1996 Jul;7(7):1107–21

cis regulatory requirements for hypodermal cell-specific expression of the Caenorhabditis elegans cuticle collagen gene dpy-7. Gilleard JS, et al. **Mol Cell Biol** 1997 Apr; 17(4):2301–11

Genetic analysis of sterile mutants in the dpy-5 unc-13 (I) genomic region of Caenorhabditis elegans. McDowall JS, et al. **Mol Gen Genet** 1997 Jun;255(1):60–77

Alignment of the genetic and physical maps in the dpy-5 bli-4 (I) region of C. elegans by the serial cosmid rescue of lethal mutations. McDowall JS, et al. **Mol Gen Genet** 1997 Jun;255(1):78–95

X-chromosome-counting mechanisms that determine nematode sex. Nicoll M, et al. **Nature** 1997 Jul 10; 388(6638):200–4

Chemosensory neurons function in parallel to mediate a pheromone response in C. elegans. Schackwitz WS, et al. **Neuron** 1996 Oct;17(4):719–28

unc-8, a DEG/ENaC family member, encodes a subunit of a candidate mechanically gated channel that modulates C. elegans locomotion. Tavernarakis N, et al. **Neuron** 1997 Jan;18(1):107–19

Eight potassium channel families revealed by the C. elegans genome project. Wei A, et al. **Neuropharmacology** 1996; 35(7):805–29

Isolation and characterization of a putative collagen gene from the potato cyst nematode Globodera pallida. Jones JT, et al. **Parasitology** 1996 Dec;113 (Pt 6):581–8

Cloning of peroxiredoxin, a novel antioxidant enzyme, from the helminth parasite Fasciola hepatica. McGonigle S, et al. **Parasitology** 1997 Jul;115 (Pt 1):101–4

Identification of an animal omega-3 fatty acid desaturase by heterologous expression in Arabidopsis. Spychalla JP, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1142–7

Structural and functional conservation of the Caenorhabditis elegans timing gene clk-1 [see comments] Ewbank JJ, et al. **Science** 1997 Feb 14;275(5302):980–3. Comment in: Science 1997 Feb 14;275(5302):943–4.

daf-2, an insulin receptor-like gene that regulates longevity and diapause in Caenorhabditis elegans [see comments] Kimura KD, et al. **Science** 1997 Aug 15;277(5328):942–6. Comment in: Science 1997 Aug 15;277(5328):897–8.

Worm longevity gene cloned [news; comment] Roush W. **Science** 1997 Aug 15;277(5328):897–8. Comment on: Science 1997 Aug 15;277(5328):942–6.

[Cloning of a protease gene family in Fasciola hepatica using the polymerase chain reaction (PCR)] Heussler V, et al. **Schweiz Arch Tierheilkd** 1996;138(3):125–32 (Eng. Abstr.) **(Ger)**

GENETICS

The C. elegans gene pag-3 is homologous to the zinc finger proto-oncogene gfi-1. Jia Y, et al. **Development** 1997 May; 124(10):2063–73

Three main patterns in the expression of six actin genes in the plerocercoid and adult Diphyllobothrium dendriticum tapeworm (Cestoda). Wahlberg MH. **Mol Biochem Parasitol** 1997 Jun;86(2):199–209

Cloning of Caenorhabditis U2AF65: an alternatively spliced RNA containing a novel exon. Zorio DA, et al. **Mol Cell Biol** 1997 Feb;17(2):946–53

Genetic divergence of Asiatic Bdellocephala (Turbellaria, Tricladida, Paludicola) as revealed by partial 18S rRNA gene sequence comparisons. Kuznedelov KD, et al. **Zh Obshch Biol** 1997 May-Jun;58(3):85–93

PHYSIOLOGY

The cold shock domain protein LIN-28 controls developmental timing in C. elegans and is regulated by the lin-4 RNA. Moss EG, et al. **Cell** 1997 Mar 7; 88(5):637–46

Neuropathology of degenerative cell death in Caenorhabditis elegans. Hall DH, et al. **J Neurosci** 1997 Feb 1; 17(3):1033–45

GENES, HER-2 see **GENES, ERBB-2**

GENES, HLA CLASS I see **GENES, MHC CLASS I**

GENES, HLA CLASS II see **GENES, MHC CLASS II**

GENES, HOMEOBOX

see related

HOMEODOMAIN PROTEINS

The DiGeorge syndrome minimal critical region contains a goosecoid-like (GSCL) homeobox gene that is expressed early in human development. Gottlieb S, et al. **Am J Hum Genet** 1997 May;60(5):1194–201

Paralogous Hox genes: function and regulation. Maconochie M, et al. **Annu Rev Genet** 1996;30:529–56 (141 ref.)

Developmental profile of homeobox gene expression during 3T3-L1 adipogenesis. Cowherd RM, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):470–5

Cell-type-specific modulation of Hox gene expression by members of the TGF-beta superfamily: a comparison between human osteosarcoma and neuroblastoma cell lines. Kloen P, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):365–9

Human colorectal carcinogenesis is associated with

deregulation of homeobox gene expression. Vider BZ, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):742–8

Transcriptional activation of human LIM–HOX gene, hLH–2, in chronic myelogenous leukemia is due to a cis–acting effect of Bcr–Abl. Wu HK, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):806–12

Identification of homeobox genes expressed during the process of rat liver regeneration after partial hepatectomy. Mizuta I, et al. **Biochem Genet** 1996 Feb;34(1–2):1–15

Patterns of expression of Hoxa–11 in micromass cultures of chick limb mesenchyme from various stages suggest a role for Hoxa–11 in the specification of the zeugopod. Rogina B. **Biochem Mol Biol Int** 1997 Jul;42(3):583–9

Is myotonic dystrophy a single–gene disorder? Johnson KJ, et al. **Biochem Soc Trans** 1996 May;24(2):510–3 (28 ref.)

Site–specific recognition by an isolated DNA–binding domain of the sine oculis protein. Hazbun TR, et al. **Biochemistry** 1997 Mar 25;36(12):3680–6

Drosophila Hox complex downstream targets and the function of homeotic genes. Graba Y, et al. **Bioessays** 1997 May;19(5):379–88 (72 ref.)

Homeosis and polyposis: a tale from the mouse. He TC, et al. **Bioessays** 1997 Jul;19(7):551–5 (39 ref.)

The coming of age of ventralising homeobox genes in amphibian development. Lemaire P. **Bioessays** 1996 Sep; 18(9):701–4 (23 ref.)

Why are Hox genes clustered? Mann RS. **Bioessays** 1997 Aug;19(8):661–4 (36 ref.)

Sticky fingers: Hox genes and cell adhesion in vertebrate limb development. Newman SA. **Bioessays** 1996 Mar; 18(3):171–4 (43 ref.)

Homeoboxes in sea anemones (Cnidaria:Anthozoa): a PCR–based survey of Nematostella vectensis and Metridium senile. Finnerty JR, et al. **Biol Bull** 1997 Aug; 193(1):62–76

Abnormal uterine stromal and glandular function associated with maternal reproductive defects in Hoxa–11 null mice. Gendron RL, et al. **Biol Reprod** 1997 May;56(5):1097–105

Mice bearing a targeted interruption of the homeobox gene HOXA9 have defects in myeloid, erythroid, and lymphoid hematopoiesis. Lawrence HJ, et al. **Blood** 1997 Mar 15; 89(6):1922–30

Mammalian homeobox B6 expression can be correlated with erythropoietin production sites and erythropoiesis during development, but not with hematopoietic or nonhematopoietic stem cell populations. Zimmermann F, et al. **Blood** 1997 Apr 15;89(8):2723–35

The Engrailed–2 homeobox gene and patterning of spinocerebellar mossy fiber afferents. Vogel MW, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):210–8

The early emergence of platyhelminths is contradicted by the agreement between 18S rRNA and Hox genes data. Balavoine G. **C R Acad Sci III** 1997 Jan;320(1):83–94

Molecular cloning and characterization of human cardiac homeobox gene CSX1. Shiojima I, et al. **Circ Res** 1996 Nov;79(5):920–9

Evolution of the entire arthropod Hox gene set predated the origin and radiation of the onychophoran/arthropod clade. Grenier JK, et al. **Curr Biol** 1997 Aug 1;7(8):547–53

Rostral optic tectum acquires caudal characteristics following ectopic engrailed expression. Logan C, et al. **Curr Biol** 1996 Aug 1;6(8):1006–14

Muscles in the Drosophila second thoracic segment are patterned independently of autonomous homeotic gene function. Roy S, et al. **Curr Biol** 1997 Apr 1;7(4):222–7

Flower development: repressing reproduction. Weigel D. **Curr Biol** 1997 Jun 1;7(6):R373–5 (14 ref.)

Arthropod evolution: Brine shrimp add salt to the stew. Williams TA, et al. **Curr Biol** 1995 Dec 1;5(12):1330–3 (18 ref.)

Homeobox genes and disease. Boncinelli E. **Curr Opin Genet Dev** 1997 Jun;7(3):331–7 (67 ref.)

Transcriptional control of Hox genes in the vertebrate nervous system. Lufkin T. **Curr Opin Genet Dev** 1996 Oct; 6(5):575–80 (66 ref.)

Genetic interactions of Hox genes in limb development: learning from compound mutants. Rijli FM, et al. **Curr Opin Genet Dev** 1997 Aug;7(4):481–7

Targeted mutations in hoxa–9 and hoxb–9 reveal synergistic interactions. Chen F, et al. **Dev Biol** 1997 Jan 15; 181(2):186–96

Genes required for GLP–1 asymmetry in the early Caenorhabditis elegans embryo. Crittenden SL, et al. **Dev Biol** 1997 Jan 1;181(1):36–46

CnNK–2, an NK–2 homeobox gene, has a role in patterning the basal end of the axis in hydra. Grens A, et al. **Dev Biol** 1996 Dec 15;180(2):473–88

NK–2 homeobox genes and heart development. Harvey RP. **Dev Biol** 1996 Sep 15;178(2):203–16 (106 ref.)

Esx1, a novel X chromosome–linked homeobox gene expressed in mouse extraembryonic tissues and male germ cells. Li Y, et al. **Dev Biol** 1997 Aug 1;188(1):85–95

Pem: a testosterone– and LH–regulated homeobox gene expressed in mouse Sertoli cells and epididymis. Lindsey JS, et al. **Dev Biol** 1996 Nov 1;179(2):471–84

SpHmx, a sea urchin homeobox gene expressed in embryonic pigment cells. Martinez P, et al. **Dev Biol** 1997 Jan 15; 181(2):213–22

Xbap, a vertebrate gene related to bagpipe, is expressed in developing craniofacial structures and in anterior gut muscle. Newman CS, et al. **Dev Biol** 1997 Jan 15; 181(2):223–33

The role of HOM–C genes in segmental transformations: reexamination of the Drosophila Sex combs reduced embryonic phenotype. Pederson JD, et al. **Dev Biol** 1996 Nov 25;180(1):131–42

Two isoforms of orthodenticle–related proteins (HpOtx) bind to the enhancer element of sea urchin arylsulfatase gene. Sakamoto N, et al. **Dev Biol** 1997 Jan 15;181(2):284–95

Differential activation of the clustered homeobox genes CNOT2 and CNOT1 during notogenesis in the chick. Stein S, et al. **Dev Biol** 1996 Dec 15;180(2):519–33

Expression of an Msx homeobox gene in ascidians: insights into the archetypal chordate expression pattern. Ma L, et al. **Dev Dyn** 1996 Mar;205(3):308–18

Expression of the cCdx–B homeobox gene in chick embryo suggests its participation in rostrocaudal axial patterning. Morales AV, et al. **Dev Dyn** 1996 Aug;206(4):343–53

Backfoot is a novel homeobox gene expressed in the mesenchyme of developing hind limb. Shang J, et al. **Dev Dyn** 1997 Jun;209(2):242–53

Chicken homeobox gene Prox 1 related to Drosophila prospero is expressed in the developing lens and retina [published erratum appears in Dev Dyn 1996 Sep;207(1):120] Tomarev SI, et al. **Dev Dyn** 1996 Aug; 206(4):354–67

POU homeodomain genes and myogenesis. Dominov JA, et al. **Dev Genet** 1996;19(2):108–18

Planarian Hox genes: novel patterns of expression during regeneration. Bayascas JR, et al. **Development** 1997 Jan; 124(1):141–8

Mechanisms of reduced fertility in Hoxa–10 mutant mice: uterine homeosis and loss of maternal Hoxa–10 expression. Benson GV, et al. **Development** 1996 Sep;122(9):2687–96

Overexpression of the tinman–related genes XNkx–2.5 and XNkx–2.3 in Xenopus embryos results in myocardial hyperplasia. Cleaver OB, et al. **Development** 1996 Nov; 122(11):3549–56

Altered cellular proliferation and mesoderm patterning in Polycomb–M33–deficient mice. Coré N, et al. **Development** 1997 Feb;124(3):721–9

The regeneration of the cephalic neural crest, a problem revisited: the regenerating cells originate from the contralateral or from the anterior and posterior neural fold. Couly G, et al. **Development** 1996 Nov;122(11):3393–407

In vivo functional analysis of the Hoxa–1 3' retinoic acid response element (3'RARE). Dupé V, et al. **Development** 1997 Jan;124(2):399–410

Analysis of Hoxd–13 and Hoxd–11 misexpression in chick limb buds reveals that Hox genes affect both bone condensation and growth. Goff DJ, et al. **Development** 1997 Feb;124(3):627–36

Genetic evidence for the subdivision of the arthropod limb into coxopodite and telopodite. González–Crespo S, et al. **Development** 1996 Dec;122(12):3921–8

Hox gene induction in the neural tube depends on three parameters: competence, signal supply and paralogue group. Grapin–Botton A, et al. **Development** 1997 Feb; 124(4):849–59

ladybird, a tandem of homeobox genes that maintain late wingless expression in terminal and dorsal epidermis of the Drosophila embryo. Jagla K, et al. **Development** 1997 Jan; 124(1):91–100

Function of posterior HoxD genes in the morphogenesis of the anal sphincter. Kondo T, et al. **Development** 1996 Sep; 122(9):2651–9

Segregating expression domains of two goosecoid genes during the transition from gastrulation to neurulation in chick embryos. Lemaire L, et al. **Development** 1997 Apr; 124(8):1443–52

The function and regulation of cut expression on the wing margin of Drosophila: Notch, Wingless and a dominant negative role for Delta and Serrate. Micchelli CA, et al. **Development** 1997 Apr;124(8):1485–95

Both the paired domain and homeodomain are required for in vivo function of Drosophila Paired. Miskiewicz P, et al. **Development** 1996 Sep;122(9):2709–18

Defects of urogenital development in mice lacking Emx2. Miyamoto N, et al. **Development** 1997 May;124(9):1653–64

Specific residues in the Pbx homeodomain differentially modulate the DNA–binding activity of Hox and Engrailed proteins. Peltenburg LT, et al. **Development** 1997 Mar; 124(5):1089–98

Evolution of the insect body plan as revealed by the Sex combs reduced expression pattern. Rogers BT, et al. **Development** 1997 Jan;124(1):149–57

Dorsal hindbrain ablation results in rerouting of neural crest migration and changes in gene expression, but normal hyoid development. Saldivar JR, et al. **Development** 1997 Jul; 124(14):2729–39

Emx1 and Emx2 functions in development of dorsal telencephalon. Yoshidà M, et al. **Development** 1997 Jan; 124(1):101–11

Co–localization of Polycomb protein and GAGA factor on regulatory elements responsible for the maintenance of homeotic gene expression. Strutt H, et al. **EMBO J** 1997 Jun;16(12):3621–32

Deletion of a HoxD enhancer induces transcriptional heterochrony leading to transposition of the sacrum. Zákány J, et al. **EMBO J** 1997 Jul 16;16(14):4393–402

Identification of POU–class homeobox genes in a freshwater sponge and the specific expression of these genes during differentiation. Seimiya M, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):27–31

Homeobox genes: molecular link between congenital anomalies and cancer. Anbazhagan R, et al. **Eur J Cancer** 1997 Apr;33(4):635–7

Emx1 and Emx2 show different patterns of expression during proliferation and differentiation of the developing cerebral cortex in the mouse. Gulisano M, et al. **Eur J Neurosci** 1996 May;8(5):1037–50

A Mox homeobox gene in the gastropod mollusc Haliotis rufescens is differentially expressed during larval morphogenesis and metamorphosis. Degnan BM, et al. **FEBS Lett** 1997 Jul 7;411(1):119–22

Identification and expression of six family genes in mouse retina. Kawakami K, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):259–63

A processed homeobox gene expressed in a stage–, tissue– and region–specific manner in epididymis. Nhim RP, et al. **Gene** 1997 Feb 7;185(2):271–6

Developmental expression of the Bombyx Antennapedia homologue and homeotic changes in the Nc mutant. Nagata T, et al. **Genes Cells** 1996 Jun;1(6):555–68

araucan and caupolican provide a link between compartment subdivisions and patterning of sensory organs and veins in the Drosophila wing. Gómez–Skarmeta JL, et al. **Genes Dev** 1996 Nov 15;10(22):2935–45

The homeobox gene Distal–less induces ventral appendage development in Drosophila. Gorfinkiel N, et al. **Genes Dev** 1997 Sep 1;11(17):2259–71

Molecular genetic analysis of Drosophila ash2, a member of the trithorax group required for imaginal disc pattern formation. Adamson AL, et al. **Genetics** 1996 Oct; 144(2):621–33

Ras1–mediated modulation of Drosophila homeotic function in cell and segment identity. Boube M, et al. **Genetics** 1997 Jun;146(2):619–28

Multiple versions of the A mating type locus of Coprinus cinereus are generated by three paralogous pairs of multiallelic homeobox genes. Pardo EH, et al. **Genetics** 1996 Sep;144(1):87–94

Identification of a conserved family of Meis1–related homeobox genes [letter] Steelman S, et al. **Genome Res** 1997 Feb;7(2):142–56

Cloning of a novel homeobox–containing gene, PKNOX1, and mapping to human chromosome 21q22.3. Chen H, et al. **Genomics** 1997 Apr 15;41(2):193–200

A novel human prostate–specific, androgen–regulated homeobox gene (NKX3.1) that maps to 8p21, a region frequently deleted in prostate cancer. He WW, et al. **Genomics** 1997 Jul 1;43(1):69–77

Genomic analysis of a new mammalian distal–less gene: Dlx7. Nakamura S, et al. **Genomics** 1996 Dec 15;38(3):314–24

Cloning and mapping of the MEIS1 gene, the human homolog of a murine leukemogenic gene. Smith JE Jr, et al. **Genomics** 1997 Jul 1;43(1):99–103

Structure and chromosomal localization of the human homeobox gene Prox 1. Zinovieva RD, et al. **Genomics** 1996 Aug 1;35(3):517–22

Exclusion of the MSX1 homeobox gene as the gene for the Ellis van Creveld syndrome in the Amish. Ide SE, et al. **Hum Genet** 1996 Nov;98(5):572–5

Pituitary homeobox 2, a novel member of the bicoid–related family of homeobox genes, is a potential regulator of anterior structure formation. Gage PJ, et al. **Hum Mol Genet** 1997 Mar;6(3):457–64

The evolutionary distribution and structural organization of the homeobox–containing repeat D4Z4 indicates a functional role for the ancestral copy in the FSHD region. Winokur ST, et al. **Hum Mol Genet** 1997 Mar;6(3):502

The evolutionary distribution and structural organization of the homeobox–containing repeat D4Z4 indicates a functional role for the ancestral copy in the FSHD region [published erratum appears in Hum Mol Genet 1997 Mar;6(3):502] Winokur ST, et al. **Hum Mol Genet** 1996 Oct;5(10):1567–75

Overexpression of HOXB3 in hematopoietic cells causes defective lymphoid development and progressive myeloproliferation. Sauvageau G, et al. **Immunity** 1997 Jan; 6(1):13–22

HOX genes and cell adhesion molecules in cancers. Alonso Varona A, et al. **Int J Dev Biol** 1996;Suppl 1:309S–310S

Hox genes disobey colinearity and do not distinguish head from tail during planarian regeneration. Bayascas JR, et al. **Int J Dev Biol** 1996;Suppl 1:173S–174S

Cloning and characterisation of two chick homeobox genes, members of the six/sine oculis family, expressed during eye development. Bovolenta P, et al. **Int J Dev Biol** 1996; Suppl 1:73S–74S

Amphioxus Hox genes: insights into evolution and development. Garcia–Fernàndez J, et al. **Int J Dev Biol** 1996;Suppl 1:71S–72S

Molecular mechanisms in the control of limb regeneration: the role of homeobox genes. Gardiner DM, et al. **Int J Dev Biol** 1996 Aug;40(4):797–805 (76 ref.)

Expression of Hoxb–3 in carp (Cyprinus carpio) embryos. In der Rieden P, et al. **Int J Dev Biol** 1996;Suppl 1:97S–98S

Embryonic expression of carp–Ovx1. Stroband HW, et al. **Int J Dev Biol** 1996;Suppl 1:95S–96S

Distox genes: a milestone in the evolution of Hox clusters? Tauler J, et al. **Int J Dev Biol** 1996;Suppl 1:69S–70S

Pax–6, Prox 1, and Chx10 homeobox gene expression correlates with phenotypic fate of retinal precursor cells. Belecky–Adams T, et al. **Invest Ophthalmol Vis Sci** 1997 Jun;38(7):1293–303

Prostate-specific and androgen-dependent expression of a novel homeobox gene. Bieberich CJ, et al. **J Biol Chem** 1996 Dec 13;271(50):31779-82

Twist-mediated activation of the NK-4 homeobox gene in the visceral mesoderm of Drosophila requires two distinct clusters of E-box regulatory elements. Lee YM, et al. **J Biol Chem** 1997 Jul 11;272(28):17531-41

Primary structure, neural-specific expression, and chromosomal localization of Cux-2, a second murine homeobox gene related to Drosophila cut. Quaggin SE, et al. **J Biol Chem** 1996 Sep 13;271(37):22624-34

Changing intestinal connective tissue interactions alters homeobox gene expression in epithelial cells. Duluc I, et al. **J Cell Sci** 1997 Jun;110 (Pt 11):1317-24

Antisense oligonucleotides to Cux-1, a Cut-related homeobox gene, cause increased apoptosis in mouse embryonic kidney cultures. Quaggin SE, et al. **J Clin Invest** 1997 Feb 15;99(4):718-24

PCR-survey of Hox-genes of the zebrafish: new sequence information and evolutionary implications. Misof BY, et al. **J Exp Zool** 1996 Feb 15;274(3):193-206

Complete sequence of SpHox8 and its linkage in the single Hox gene cluster of Strongylocentrotus purpuratus. Martinez P, et al. **J Mol Evol** 1997 Apr;44(4):371-7

Is there a link between changes in the vertebral "hox code" and the shape of vertebrae? A quantitative study of shape change in the cervical vertebral column of mice. Johnson DR, et al. **J Theor Biol** 1996 Nov 7;183(1):89-93

Modelling the activity of the Ultrabithorax parasegment-specific regulatory domains around their anterior boundaries. Singh PB, et al. **J Theor Biol** 1997 Jun 21;186(4):397-413

Expression of a cut-related homeobox gene in developing and polycystic mouse kidney. Vanden Heuvel GB, et al. **Kidney Int** 1996 Aug;50(2):453-61

Localization of human DLX8 to chromosome 17q21.3-q22 by fluorescence in situ hybridization. Morasso MI, et al. **Mamm Genome** 1997 Apr;8(4):302-3

Mouse homeobox-containing gene, Otx2, maps to mouse chromosome 14. Oyanagi M, et al. **Mamm Genome** 1997 Apr;8(4):292-3

Cartilage morphogenesis: role of bone and cartilage morphogenetic proteins, homeobox genes and extracellular matrix. Reddi AH. **Matrix Biol** 1995 Oct;14(8):599-606 (64 ref.)

The Drosophila teashirt homeotic protein is a DNA-binding protein and modulo, a HOM-C regulated modifier of variegation, is a likely candidate for being a direct target gene. Alexandre E, et al. **Mech Dev** 1996 Oct;59(2):191-204

Chicken NKx2-8, a novel homeobox gene expressed during early heart and foregut development. Brand T, et al. **Mech Dev** 1997 Jun;64(1-2):53-9

Spx1, a novel X-linked homeobox gene expressed during spermatogenesis. Branford WW, et al. **Mech Dev** 1997 Jul; 65(1-2):87-98

The Drosophila homeotic gene moira regulates expression of engrailed and HOM genes in imaginal tissues. Brizuela BJ, et al. **Mech Dev** 1997 Jul;65(1-2):209-20

Chick NKx-2.3 represents a novel family member of vertebrate homologues to the Drosophila homeobox gene tinman: differential expression of cNKx-2.3 and cNKx-2.5 during heart and gut development. Buchberger A, et al. **Mech Dev** 1996 May;56(1-2):151-63

Xrx1, a novel Xenopus homeobox gene expressed during eye and pineal gland development. Casarosa S, et al. **Mech Dev** 1997 Jan;61(1-2):187-98

The evolution of Msx gene function: expression and regulation of a sea urchin Msx class homeobox gene. Dobias SL, et al. **Mech Dev** 1997 Jan;61(1-2):37-48

Specific craniofacial cartilage dysmorphogenesis coincides with a loss of dlx gene expression in retinoic acid-treated zebrafish embryos. Ellies DL, et al. **Mech Dev** 1997 Jan; 61(1-2):23-36

Orthodenticle regulation during embryonic head development in Drosophila. Gao Q, et al. **Mech Dev** 1996 May;56(1-2):3-15

Xenopus Xsal-1, a vertebrate homolog of the region specific homeotic gene spalt of Drosophila. Hollemann T, et al. **Mech Dev** 1996 Mar;55(1):19-32

Insertional mutation of the mouse Msx1 homeobox gene by an nlacZ reporter gene. Houzelstein D, et al. **Mech Dev** 1997 Jul;65(1-2):123-33

The chicken caudal genes establish an anterior-posterior gradient by partially overlapping temporal and spatial patterns of expression. Marom K, et al. **Mech Dev** 1997 Jun;64(1-2):41-52

Expression of a novel aristaless related homeobox gene 'Arx' in the vertebrate telencephalon, diencephalon and floor plate. Miura H, et al. **Mech Dev** 1997 Jul;65(1-2):99-109

A Distal-less-like gene is induced in the regenerating central nervous system of the urodele Pleurodeles waltl. Nicolas S, et al. **Mech Dev** 1996 May;56(1-2):209-20

The mouse homolog of the region specific homeotic gene spalt of Drosophila is expressed in the developing nervous system and in mesoderm-derived structures. Ott T, et al. **Mech Dev** 1996 May;56(1-2):117-28

Krox-20 is a key regulator of rhombomere-specific gene expression in the developing hindbrain. Seitanidou T, et al. **Mech Dev** 1997 Jul;65(1-2):31-42

The murine homeobox gene Msx-3 shows highly restricted expression in the developing neural tube. Shimeld SM, et al. **Mech Dev** 1996 Apr;55(2):201-10

Regionalized expression of the Dbx family homeobox genes in the embryonic CNS of the mouse. Shoji H, et al. **Mech Dev** 1996 May;56(1-2):25-39

Zebrafish Hoxa and Evx-2 genes: cloning, developmental expression and implications for the functional evolution of posterior Hox genes. Sordino P, et al. **Mech Dev** 1996 Oct; 59(2):165-75

Checklist: vertebrate homeobox genes. Stein S, et al. **Mech Dev** 1996 Mar;55(1):91-108 (535 ref.)

Bapx1: an evolutionary conserved homologue of the Drosophila bagpipe homeobox gene is expressed in splanchnic mesoderm and the embryonic skeleton. Tribioli C, et al. **Mech Dev** 1997 Jul;65(1-2):145-62

Teleost HoxD and HoxA genes: comparison with tetrapods and functional evolution of the HOXD complex. van der Hoeven F, et al. **Mech Dev** 1996 Jan;54(1):9-21

Phylogenetic reconstruction of vertebrate Hox cluster duplications. Bailey WJ, et al. **Mol Biol Evol** 1997 Aug; 14(8):843-53

Sea urchin Hox genes: insights into the ancestral Hox cluster. Popodi E, et al. **Mol Biol Evol** 1996 Oct;13(8):1078-86

Otlx2, an Otx-related homeobox gene expressed in the pituitary gland and in a restricted pattern in the forebrain. Muccielli ML, et al. **Mol Cell Neurosci** 1996;8(4):258-71

Differential expression of LIM homeobox genes among motor neuron subpopulations in the developing chick brain stem. Varela-Echavarría A, et al. **Mol Cell Neurosci** 1996; 8(4):242-57

Rapid analysis for the isolation of novel genes encoding putative effectors to the position-specific regulatory element of murine Hoxa-7. Cho M, et al. **Mol Cells** 1997 Apr 30;7(2):220-5

The Ames dwarf gene, df, is required early in pituitary ontogeny for the extinction of Rpx transcription and initiation of lineage-specific cell proliferation. Gage PJ, et al. **Mol Endocrinol** 1996 Dec;10(12):1570-81

Developmental functions of mammalian Hox genes. Favier B, et al. **Mol Hum Reprod** 1997 Feb;3(2):115-31 (128 ref.)

Homeobox genes in the Ctenophora: identification of paired-type and Hox homologues in the atentaculate ctenophore, Beroë ovata. Finnerty JR, et al. **Mol Mar Biol Biotechnol** 1996 Dec;5(4):249-58

SOX genes: architects of development. Prior HM, et al. **Mol Med** 1996 Jul;2(4):405-12 (57 ref.)

A survey of homeobox genes in Chaetopterus variopedatus and analysis of polychaete homeodomains. Irvine SQ, et al. **Mol Phylogenet Evol** 1997 Jun;7(3):331-45

Homeobox genes in the cnidarian Eleutheria dichotoma: evolutionary implications for the origin of Antennapedia-class (HOM/Hox) genes. Kuhn K, et al. **Mol Phylogenet Evol** 1996 Aug;6(1):30-8

A PCR survey of hox genes in the sea star, Asterina minor. Mito T, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):218-24

Pseudoautosomal deletions encompassing a novel homeobox gene cause growth failure in idiopathic short stature and Turner syndrome [see comments] Rao E, et al. **Nat Genet** 1997 May;16(1):54-63. Comment in: Nat Genet 1997 May;16(1):3-4.

Hox genes, arms and the man [news; comment] Scott MP. **Nat Genet** 1997 Feb;15(2):117-8. Comment on: Nat Genet 1997 Feb;15(2):179-80.

Crustacean appendage evolution associated with changes in Hox gene expression. Averof M, et al. **Nature** 1997 Aug 14;388(6643):682-6

Hox9 genes and vertebrate limb specification. Cohn MJ, et al. **Nature** 1997 May 1;387(6628):97-101

A Polycomb-group gene regulates homeotic gene expression in Arabidopsis [see comments] Goodrich J, et al. **Nature** 1997 Mar 6;386(6620):44-51. Comment in: Nature 1997 Mar 6;385(6620):17.

Memorizing the floral ABC [news; comment] Jürgens G. **Nature** 1997 Mar 6;386(6620):17. Comment on: Nature 1997 Mar 6;385(6620):44-51.

Segmental regulation of Hoxb-3 by kreisler. Manzanares M, et al. **Nature** 1997 May 8;387(6629):191-5

The Rx homeobox gene is essential for vertebrate eye development. Mathers PH, et al. **Nature** 1997 Jun 5; 387(6633):603-7

Hox genes misled by local environments [letter; comment] Schnabel R, et al. **Nature** 1997 Feb 13;385(6617):588-9. Comment on: Nature 1996 Jul 25;382(6589):353-6.

Synpolydactyly in mice with a targeted deficiency in the HoxD complex. Zákány J, et al. **Nature** 1996 Nov 7; 384(6604):69-71

Familial schizencephaly associated with EMX2 mutation. Granata T, et al. **Neurology** 1997 May;48(5):1403-6

floating head and masterblind regulate neuronal patterning in the roof of the forebrain. Masai I, et al. **Neuron** 1997 Jan;18(1):43-57

The highest affinity DNA element bound by Pbx complexes in t(1;19) leukemic cells fails to mediate cooperative DNA-binding or cooperative transactivation by E2a-Pbx1 and class I Hox proteins - evidence for selective targetting of E2a-Pbx1 to a subset of Pbx-recognition elements. Knoepfler PS, et al. **Oncogene** 1997 May 29;14(21):2521-31

A gene fusion at a homeobox locus: alterations in leaf shape and implications for morphological evolution. Chen JJ, et al. **Plant Cell** 1997 Aug;9(8):1289-304

Identification of a meristem L1 layer-specific gene in Arabidopsis that is expressed during embryonic pattern formation and defines a new class of homeobox genes. Lu P, et al. **Plant Cell** 1996 Dec;8(12):2155-68

Isolation and characterization of cDNA clones with enhanced expression in tobacco plants expressing the rice homeobox gene, OSH1. Tamaoki M, et al. **Plant Cell Physiol** 1997 May;38(5):638-42

Knotted1-like homeobox genes are expressed during apple tree (Malus domestica [L.] Borkh) growth and development. Watillon B, et al. **Plant Mol Biol** 1997 Mar; 33(4):757-63

Organization of the Hox gene cluster in the grasshopper, Schistocerca gregaria. Ferrier DE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13024-9

rax, a novel paired-type homeobox gene, shows expression in the anterior neural fold and developing retina. Furukawa T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3088-93

Intron of the mouse Hoxa-7 gene contains conserved homeodomain binding sites that can function as an enhancer element in Drosophila. Haerry TE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13884-9

Barx2, a new homeobox gene of the Bar class, is expressed in neural and craniofacial structures during development. Jones FS, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2632-7

Floral homeotic genes were recruited from homologous MADS-box genes preexisting in the common ancestor of ferns and seed plants. Münster T, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2415-20

Cloning and characterization of four murine homeobox genes [published erratum appears in Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15522] Rovescalli AC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10691-6

A rice homeobox gene, OSH1, is expressed before organ differentiation in a specific region during early embryogenesis. Sato Y, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8117-22

Combinations of closely situated cis-acting elements determine tissue-specific patterns and anterior extent of early Hoxc8 expression. Shashikant CS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12364-9

Inhibition of DLX-7 homeobox gene causes decreased expression of GATA-1 and c-myc genes and apoptosis. Shimamoto T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3245-9

The evolution of the vertebrate Dlx gene family. Stock DW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10858-63

HOX gene links limb, genital defects [news] Dickman S. **Science** 1997 Mar 14;275(5306):1568

Developing a new view of evolution [news] [see comments] Pennisi E, et al. **Science** 1997 Jul 4;277(5322):34-7. Comment in: Science 1997 Sep 5;277(5331):1420.

Unity or diversity? Holland PW. **Trends Genet** 1996 Aug; 12(8):324

Hox genes in evolution: protein surfaces and paralog groups. Sharkey M, et al. **Trends Genet** 1997 Apr;13(4):145-51 (37 ref.)

[Hox genes and genetic control of limb development] Hérault Y, et al. **Arch Pediatr** 1997;4(2 Suppl 2):107s-111s (17 ref.) **(Fre)**

[Apropos of the studies of Lewis, Nusslein-Volhard and Wieschaus, 1995 Nobel prize winners, on the genetic mechanisms of embryonic development of drosophila. A model for human cancer progression] Cillo C. **Bull Cancer** 1996 Jul;83(7):527-34 (30 ref.) (Eng. Abstr.) **(Fre)**

[Transcriptional regulation by Hox gene products] Takahashi N. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1088-94 (46 ref.) **(Jpn)**

[SRY gen--primary "switch" in human sex determination?] Michalczak-Janitz K, et al. **Postepy Biochem** 1995; 41(4):212-9 (74 ref.) **(Pol)**

[A novel method of subtraction cDNA hybridization allowing cloning of genes showing differential expression in cell micropopulations] Vasil'ev OL, et al. **Bioorg Khim** 1996 Dec;22(12):894-9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Retinoic acid-responsive enhancers located 3' of the Hox A and Hox B homeobox gene clusters. Functional analysis. Langston AW, et al. **J Biol Chem** 1997 Jan 24; 272(4):2167-75

The Arabidopsis homeobox gene ATHB-7 is induced by water deficit and by abscisic acid. Söderman E, et al. **Plant J** 1996 Aug;10(2):375-81

GENETICS

The Polycomb and trithorax group proteins of Drosophila: trans-regulators of homeotic gene function. Kennison JA. **Annu Rev Genet** 1995;29:289-303 (83 ref.)

Molecular evolution of the paired gene in Drosophila: cloning and characterization of the partial paired gene from Drosophila willistoni. Matsuo Y. **Biochem Genet** 1996 Dec; 34(11-12):415-20

An androgen-regulated homeobox gene expressed in rat testis and epididymis. Lindsey JS, et al. **Biol Reprod** 1996 Nov; 55(5):975-83

A unique variant of a homeobox gene related to Drosophila cut is expressed in mouse testis. Vanden Heuvel GB, et al. **Biol Reprod** 1996 Oct;55(4):731-9

Emx and Otx gene expression in the developing mouse brain. Boncinelli E, et al. **Ciba Found Symp** 1995;193:100-16; discussion 117-26 (17 ref.)

Studies of the candidate genes TGFB2, MSX1, TGFA, and

TGFB3 in the etiology of cleft lip and palate in the Philippines. Lidral AC, et al. **Cleft Palate Craniofac J** 1997 Jan;34(1):1–6

Theoretical approaches to the analysis of homeobox gene evolution. Kappen C. **Comput Chem** 1996 Mar;20(1):49–59

Left–right asymmetry: The embryo's one–sided genes. King T, et al. **Curr Biol** 1995 Dec 1;5(12):1364–6 (16 ref.)

Cell lineage patterns and homeotic gene activity during Antirrhinum flower development. Vincent CA, et al. **Curr Biol** 1995 Dec 1;5(12):1449–1458

A conserved cluster of homeodomain binding sites in the mouse Hoxa–4 intron functions in Drosophila embryos as an enhancer that is directly regulated by Ultrabithorax. Haerry TE, et al. **Dev Biol** 1997 Jun 1;186(1):1–15

Branchial HOX gene expression and human craniofacial development. Vieille–Grosjean I, et al. **Dev Biol** 1997 Mar 1;183(1):49–60

Isolation, characterization, and expression of Le–msx, a maternally expressed member of the msx gene family from the glossiphoniid leech, Helobdella. Master VA, et al. **Dev Dyn** 1996 Dec;207(4):404–19

Spatial regulation of floating head expression in the developing notochord. Melby AE, et al. **Dev Dyn** 1997 Jun;209(2):156–65

Switching the in vivo specificity of a minimal Hox–responsive element. Chan SK, et al. **Development** 1997 May;124(10):2007–14

Loss–of–function mutations in the maize homeobox gene, knotted1, are defective in shoot meristem maintenance. Kerstetter RA, et al. **Development** 1997 Aug; 124(16):3045–54

HOXD4 and regulation of the group 4 paralog genes. Morrison A, et al. **Development** 1997 Aug;124(16):3135–46

Isolation and identification of homeobox genes from the human placenta including a novel member of the Distal–less family, DLX4. Quinn LM, et al. **Gene** 1997 Mar 10; 187(1):55–61

Isolation, characterization, and chromosomal mapping of the human Nkx6.1 gene (NKX6A), a new pancreatic islet homeobox gene. Inoue H, et al. **Genomics** 1997 Mar 1; 40(2):367–70

Three mutations in the paired homeodomain of PAX3 that cause Waardenburg syndrome type 1. Morell R, et al. **Hum Hered** 1997 Jan–Feb;47(1):38–41

Genomic structure of HOXD13 gene: a nine polyalanine duplication causes synpolydactyly in two unrelated families. Akarsu AN, et al. **Hum Mol Genet** 1996 Jul; 5(7):945–52

Complex trinucleotide repeat polymorphism in the HOX B6 gene. O'Brien S, et al. **Hum Mutat** 1997;9(3):280–1

N–cadherin protein distribution in normal embryos and in embryos carrying mutations in the homeobox gene Hoxa–4. Packer AI, et al. **Int J Dev Biol** 1997 Jun;41(3):459–68

Expression of Hoxb–1 during gastrulation and segmentation stages of carp (Cyprinus carpio). Stevens CJ, et al. **Int J Dev Biol** 1996 Apr;40(2):463–70

PAX genes and human neural tube defects: an amino acid substitution in PAX1 in a patient with spina bifida. Hol FA, et al. **J Med Genet** 1996 Aug;33(8):655–60

Expression of the homeobox–containing genes EN1 and EN2 in human fetal midgestational medulla and cerebellum. Zec N, et al. **J Neuropathol Exp Neurol** 1997 Mar;56(3):236–42

Genetic mapping of the homeobox–containing gene Otx1 gene on mouse chromosome 11. DeGregorio L, et al. **Mamm Genome** 1996 Mar;7(3):241

Characterization of the murine Hoxc–5 gene. Geada AM, et al. **Mamm Genome** 1996 Jan;7(1):81–4

Chromosomal localization of homeobox genes and associated markers on porcine chromosomes 3, 5, 12, 15, 16 and 18: comparative mapping study with human and mouse. Lahbib–Mansais Y, et al. **Mamm Genome** 1996 Mar; 7(3):174–9

Separate cis–acting elements determine the expression of mouse Dbx gene in multiple spatial domains of the central nervous system. Lu S, et al. **Mech Dev** 1996 Aug; 58(1–2):193–202

Msx3: a novel murine homologue of the Drosophila msh homeobox gene restricted to the dorsal embryonic central nervous system. Wang W, et al. **Mech Dev** 1996 Aug; 58(1–2):203–15

Molecular cloning, chromosomal mapping, and characterization of the human cardiac–specific homeobox gene hCsx. Turbay D, et al. **Mol Med** 1996 Jan;2(1):86–96

Regulation of interneuron function in the C. elegans thermoregulatory pathway by the ttx–3 LIM homeobox gene. Hobert O, et al. **Neuron** 1997 Aug;19(2):345–57

Differential expression of LIM–homeodomain genes in the embryonic murine brain. Matsumoto K, et al. **Neurosci Lett** 1996 Jun 28;211(3):147–50

Retinoic acid response elements as positive and negative regulators of the expression of the homeobox b–1 gene. De Luca LM, et al. **Nutr Rev** 1996 Feb;54(2 Pt 1):61–3 (17 ref.)

Identification of a new family of Pbx–related homeobox genes. Nakamura T, et al. **Oncogene** 1996 Nov 21; 13(10):2235–42

Three knotted1–like homeobox genes in Arabidopsis. Serikawa KA, et al. **Plant Mol Biol** 1996 Nov;32(4):673–83

Expression of homeobox gene–GBX2 in human prostatic cancer cells. Gao AC, et al. **Prostate** 1996 Dec;29(6):395–8

Growth–arrest homeobox gene Gax: a molecular strategy to prevent arterial restenosis. Maillard L, et al. **Schweiz Med Wochenschr** 1996 Oct 12;126(41):1721–6

[Control of limb morphogenesis by the Hox genes] Hérault Y, et al. **C R Seances Soc Biol Fil** 1997;191(1):21–7 (16 ref.) (Eng. Abstr.) **(Fre)**

[Genetic control of rhombencephalon development by Hox genes studied in bird embryo by the quail–chick chimera method] Le Douarin NM, et al. **C R Seances Soc Biol Fil** 1997;191(1):29–42 (Eng. Abstr.) **(Fre)**

[Role of the Krox–20 gene in the development of rhombencephalon] Schneider–Maunoury S, et al. **C R Seances Soc Biol Fil** 1997;191(1):91–4 (15 ref.) (Eng. Abstr.) **(Fre)**

[The role of homeobox cluster genes in animal morphogenesis] Dondua AK. **Ontogenez** 1997 Jan–Feb; 28(1):3–17 (120 ref.) (Eng. Abstr.) **(Rus)**

[Hox genes, developmental evolution and the origin of vertebrates] Holland RW, et al. **Ontogenez** 1996 Jul–Aug; 27(4):273–9 (22 ref.) (Eng. Abstr.) **(Rus)**

[The role of conserved sequences in the regulatory elements of the Antp–like homeobox–containing genes of vertebrates] Spirov AV. **Zh Evol Biokhim Fiziol** 1996 Sep–Oct;32(5):556–68 (32 ref.) (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

HOXB cluster genes in activated natural killer lymphocytes: expression from 3'–>5' cluster side and proliferative function. Quaranta MT, et al. **J Immunol** 1996 Sep 15; 157(6):2462–9

PHYSIOLOGY

How do single homeotic genes control multiple segment identities? Duncan I. **Bioessays** 1996 Feb;18(2):91–4 (42 ref.)

Transforming function of the HOX11/TCL3 homeobox gene. Hawley RG, et al. **Cancer Res** 1997 Jan 15;57(2):337–45

Mutation of the Emx–1 homeobox gene disrupts the corpus callosum. Qiu M, et al. **Dev Biol** 1996 Aug 25;178(1):174–8

Abnormal patterning of the aortic arch arteries does not evoke cardiac malformations. Kirby ML, et al. **Dev Dyn** 1997 Jan;208(1):34–47

Expression of murine Lhx5 suggests a role in specifying the forebrain. Sheng HZ, et al. **Dev Dyn** 1997 Feb; 208(2):266–77

The role of the msh homeobox gene during Drosophila neurogenesis: implication for the dorsoventral specification of the neuroectoderm. Isshiki T, et al. **Development** 1997 Aug;124(16):3099–109

Pax–6 is involved in the specification of hindbrain motor neuron subtype. Osumi N, et al. **Development** 1997 Aug; 124(15):2961–72

Lhx2, a LIM homeobox gene, is required for eye, forebrain, and definitive erythrocyte development. Porter FD, et al. **Development** 1997 Aug;124(15):2935–44

Specification of the anterior hindbrain and establishment of a normal mid/hindbrain organizer is dependent on Gbx2 gene function. Wassarman KM, et al. **Development** 1997 Aug;124(15):2923–34

A caudal–type homeobox gene activity associated with the development and regeneration of the liver. Doll U, et al. **Eur J Cell Biol** 1996 Jul;70(3):260–8

DiI labeling and homeobox gene islet–1 expression reveal the contribution of ventral neural tube cells to the formation of the avian trigeminal ganglion. Sohal GS, et al. **Int J Dev Neurosci** 1996 Jul;14(4):419–27

Regulation of epidermal differentiation by a Distal–less homeodomain gene. Morasso MI, et al. **J Cell Biol** 1996 Dec;135(6 Pt 2):1879–87

Dlx–2 homeobox gene controls neuronal differentiation in primary cultures of developing basal ganglia. Ding M, et al. **J Mol Neurosci** 1997 Apr;8(2):93–113

Further observations on the susceptibility of diencephalic prosomeres to En–2 induction and on the resulting histogenetic capabilities. Bloch–Gallego E, et al. **Mech Dev** 1996 Aug;58(1–2):51–63

The Polycomb–group homolog Bmi–1 is a regulator of murine Hox gene expression. van der Lugt NM, et al. **Mech Dev** 1996 Aug;58(1–2):153–64

Enx (Hox11L1)–deficient mice develop myenteric neuronal hyperplasia and megacolon. Shirasawa S, et al. **Nat Med** 1997 Jun;3(6):646–50

L3, a novel murine LIM–homeodomain transcription factor expressed in the ventral telencephalon and the mesenchyme surrounding the oral cavity. Matsumoto K, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):113–6

Hox genes and embryonic development. Morgan BA. **Poult Sci** 1997 Jan;76(1):96–104 (41 ref.)

Role of the Xlim–1 and Xbra genes in anteroposterior patterning of neural tissue by the head and trunk organizer. Taira M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4; 94(3):895–900

The role of HOX homeobox genes in normal and leukemic hematopoiesis. Lawrence HJ, et al. **Stem Cells** 1996 May; 14(3):281–91 (99 ref.)

Murine Polycomb– and trithorax–group genes regulate homeotic pathways and beyond. Schumacher A, et al. **Trends Genet** 1997 May;13(5):167–70

[Downstream of Hox genes] Kuroiwa A. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1075–82 (33 ref.) **(Jpn)**

GENES, HOMEOTIC see **GENES, HOMEOBOX**

GENES, HYPOSTATIC see **EPISTASIS, GENETIC**

GENES, IG see **GENES, IMMUNOGLOBULIN**

GENES, IMMEDIATE–EARLY

see related
IMMEDIATE–EARLY PROTEINS

Induction of immediate early response genes by hypoxia. Possible molecular bases for systems adaptation to low pO2. Cherniack NS, et al. **Adv Exp Med Biol** 1996;410:127–34

Differential signaling and immediate–early gene activation by four splice variants of the human pituitary adenylate cyclase–activating polypeptide receptor (hPACAP–R). Pisegna JR, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:54–64; discussion 64–6

A short form of leptin receptor performs signal transduction. Murakami T, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):26–9

The immediate early gene of human cytomegalovirus stimulates vascular smooth muscle cell proliferation in vitro and in vivo. Yonemitsu Y, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):447–51

Early response gene signalling in bryostatin–stimulated primary B chronic lymphocytic leukaemia cells in vitro. Ning ZQ, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):59–65

Retinoid–dependent transcription: the RAR/RXR–TBP–EIA/EIA–LA connection. Meyer M, et al. **Biochem Soc Symp** 1996;62:97–109 (50 ref.)

E3, a hematopoietic–specific transcript directly regulated by the retinoic acid receptor alpha. Scott LM, et al. **Blood** 1996 Oct 1;88(7):2517–30

Cellular responses to experimental brain injury. Raghupathi R, et al. **Brain Pathol** 1995 Oct;5(4):437–42 (51 ref.)

Intraseptal administration of (1S,3R)–1–aminocyclopentane–1,3–dicarboxylic acid induces immediate early gene expression in lateral septal neurons. Kaatz KW, et al. **Brain Res** 1996 Feb 19; 709(2):205–14

Sensory regulation of immediate–early gene expression in mammalian visual cortex: implications for functional mapping and neural plasticity. Kaczmarek L, et al. **Brain Res Brain Res Rev** 1997 Apr;23(3):237–56 (169 ref.)

Development of striatal dopaminergic function. II: Dopaminergic regulation of transcription of the immediate early gene zif268 and of D1 (D1a) and D2 (D2a) receptors during pre– and postnatal development. Jung AB, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):121–32

Immediate early gene expression in cat visual cortex during and after the critical period: differences between EGR–1 and Fos proteins. Kaplan IV, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):12–22

HZF–3, an immediate–early orphan receptor homologous to NURR1/NOT: induction upon membrane depolarization and seizures. Peña de Ortiz S, et al. **Brain Res Mol Brain Res** 1996 May;38(1):1–13

Overexpression of the nerve growth factor–inducible PC3 immediate early gene is associated with growth inhibition. Montagnoli A, et al. **Cell Growth Differ** 1996 Oct; 7(10):1327–36

Mitogen–activated protein kinase cascades and the signaling of hyperosmotic stress to immediate early genes. Cohen DM. **Comp Biochem Physiol A Physiol** 1997 Jul; 117(3):291–9 (79 ref.)

Distinct mechanisms for rescue from apoptosis in Ramos human B cells by signaling through CD40 and interleukin–4 receptor: role for inhibition of an early response gene, Berg36. Ning ZQ, et al. **Eur J Immunol** 1996 Oct; 26(10):2356–63

The anxiolytics CI–988 and chlordiazepoxide fail to reduce immediate early gene mRNA stimulation following exposure to the rat elevated X–maze. Hinks GL, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):153–61

Heparin–binding epidermal growth factor–like growth factor, an immediate–early gene for mesangial cells, is up–regulated in the Thy–1.1 model. Polihronis M, et al. **Exp Nephrol** 1996 Sep–Oct;4(5):271–8

NMDA receptor overstimulation triggers a prolonged wave of immediate early gene expression: relationship to excitotoxicity. Shan Y, et al. **Exp Neurol** 1997 Apr; 144(2):406–15

Baculovirus immediate–early promoter–mediated expression of the Zeocin resistance gene for use as a dominant selectable marker in dipteran and lepidopteran insect cell lines. Pfeifer TA, et al. **Gene** 1997 Apr 1;188(2):183–90

The mouse gene for the inducible G–protein–coupled receptor edg–1. Liu CH, et al. **Genomics** 1997 Jul 1; 43(1):15–24

Induction of early–immediate genes by tumor necrosis factor alpha contribute to liver repair following chemical–induced hepatotoxicity. Bruccoleri A, et al. **Hepatology** 1997 Jan; 25(1):133–41

Baculovirus immediate early gene promoter based expression vectors for transient and stable transformation of insect cells. Vulsteke V, et al. **Insect Mol Biol** 1993;2(4):195–204

DUB–2 is a member of a novel family of cytokine–inducible deubiquitinating enzymes. Zhu Y, et al. **J Biol Chem** 1997 Jan 3;272(1):51–7

Integrin–dependent induction of early growth response genes in capillary endothelial cells. Dike LE, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2855–63

Global ischemia induces immediate–early genes encoding

zinc finger transcription factors. Honkaniemi J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):557-65

Comparative messenger ribonucleic acid analysis of immediate early genes and sex steroid receptors in human leiomyoma and healthy myometrium. Lessl M, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2596-600

Stimulus-dependent expression of immediate-early genes in rat somatosensory cortex. Melzer P, et al. **J Comp Neurol** 1997 Mar 31;380(1):145-53

Wavelength-specific induction of immediate early genes by ultraviolet radiation. Ariizumi K, et al. **J Dermatol Sci** 1996 Jun;12(2):147-55

IL-12-induced activation of NK and T cells occurs in the absence of immediate-early activation gene expression. Azzoni L, et al. **J Immunol** 1996 Oct 15;157(8):3235-41

Differential accumulation of mRNA for immediate early genes and heat shock genes in heart after ischaemic injury. Plumier JC, et al. **J Mol Cell Cardiol** 1996 Jun; 28(6):1251-60

Hypophysiotropic CRF neurons display a sustained immediate-early gene response to chronic stress but not to adrenalectomy. Brown ER, et al. **J Neuroendocrinol** 1997 Apr;9(4):307-16

Local release of GABAergic inhibition in the motor cortex induces immediate-early gene expression in indirect pathway neurons of the striatum. Berretta S, et al. **J Neurosci** 1997 Jun 15;17(12):4752-63

Selective expression of the immediate early gene c-jun in axotomized rat medial septal neurons is not related to neuronal degeneration. Haas CA, et al. **J Neurosci** 1996 Mar 1;16(5):1894-903

Selective alteration of long-term potentiation-induced transcriptional response in hippocampus of aged, memory-impaired rats. Lanahan A, et al. **J Neurosci** 1997 Apr 15;17(8):2876-85

Differential effects of protein synthesis inhibition on the activity-dependent expression of BDNF transcripts: evidence for immediate-early gene responses from specific promoters. Lauterborn JC, et al. **J Neurosci** 1996 Dec 1; 16(23):7428-36

Calcium influx via the NMDA receptor induces immediate early gene transcription by a MAP kinase/ERK-dependent mechanism. Xia Z, et al. **J Neurosci** 1996 Sep 1; 16(17):5425-36

Immediate early gene c-fos regulates the synthesis of phospholipids but not of gangliosides. Guido ME, et al. **J Neurosci Res** 1996 Jan 1;43(1):93-8

Differences in resistance to herpes simplex virus type 1 (HSV-1) among oligodendroglia derived from different strains of mice are determined after viral adsorption but prior to the expression of immediate early (IE) genes. Thomas EE, et al. **J Neurovirol** 1997 Jun;3(3):197-205

Characterization of the feline herpesvirus type 1 immediate early gene expression. Kawaguchi Y, et al. **J Vet Med Sci** 1996 Aug;58(8):715-21

Two distinct upstream regulatory domains containing multicopy cellular transcription factor binding sites provide basal repression and inducible enhancer characteristics to the immediate-early IES (US3) promoter from human cytomegalovirus. Chan YJ, et al. **J Virol** 1996 Aug; 70(8):5312-28

Echovirus 1 replication, not only virus binding to its receptor, VLA-2, is required for the induction of cellular immediate-early genes. Huttunen P, et al. **J Virol** 1997 May;71(5):4176-80

Effect of a modulator deletion on transcription of the human cytomegalovirus major immediate-early genes in infected undifferentiated and differentiated cells. Meier JL, et al. **J Virol** 1997 Feb;71(2):1246-55

A baculovirus vector derived from immediately early gene promoter of Autographa californica nuclear polyhedrosis virus. Zhu FX, et al. **J Virol Methods** 1996 Oct;62(1):71-9

Induction of ICE and inhibition of c-fos, jun D and zif 268 in 12-month old spontaneously hypertensive rats. Chen H, et al. **Life Sci** 1997;61(2):PL27-31

Identification of immediate-early gene targets of the Raf-1 serine/threonine protein kinase using an estradiol-dependent fusion protein, delta Raf-1:ER. McCarthy SA, et al. **Methods Mol Biol** 1997;85:137-51

Isolation of song-regulated genes in the brain of songbirds. Mello CV, et al. **Methods Mol Biol** 1997;85:205-17

A PDGF-regulated immediate early gene response initiates neuronal differentiation in ventricular zone progenitor cells. Williams BP, et al. **Neuron** 1997 Apr;18(4):553-62

Elicitation and reduction of fear: behavioural and neuroendocrine indices and brain induction of the immediate-early gene c-fos. Campeau S, et al. **Neuroscience** 1997 Jun;78(4):1087-104

D1 dopamine receptor-deficient mouse: cocaine-induced regulation of immediate-early gene and substance P expression in the striatum. Drago J, et al. **Neuroscience** 1996 Oct;74(3):813-23

Induction of members of the Fos/Jun family of immediate-early genes in identified hypothalamic neurons: in vivo evidence for differential regulation. Luckman SM, et al. **Neuroscience** 1996 Jul;73(2):473-85

Identification of an immediate-early salicylic acid-inducible tobacco gene and characterization of induction by other compounds. Horvath DM, et al. **Plant Mol Biol** 1996 Aug; 31(5):1061-72

Cellular mechanisms regulating neurite initiation. Lankford KL, et al. **Prog Brain Res** 1996;108:55-81 (231 ref.)

Studying the central actions of angiotensin using the expression of immediate-early genes: expectations and limitations. Herbert J. **Regul Pept** 1996 Oct 8;66(1-2):13-8 (26 ref.)

Angiotensin-related induction of immediate early genes in rat brain. Rowland NE, et al. **Regul Pept** 1996 Oct 8; 66(1-2):25-9 (35 ref.)

Neuronal gene expression in the waking state: a role for the locus coeruleus. Cirelli C, et al. **Science** 1996 Nov 15; 274(5290):1211-5

Immediate early gene expression in response to cerebral ischemia. Friend or foe? Akins PT, et al. **Stroke** 1996 Sep; 27(9):1682-7 (55 ref.)

Regulation of c-Fos and NGF1-A by antidepressant treatments. Morinobu S, et al. **Synapse** 1997 Apr; 25(4):313-20

Construction and characterization of herpes simplex virus type 1 mutants with conditional defects in immediate early gene expression. Preston CM, et al. **Virology** 1997 Mar 3; 229(1):228-39

Cycloheximide inhibition of delayed early gene expression in baculovirus-infected cells. Ross L, et al. **Virology** 1997 May 26;232(1):105-13

Characterization of a unique OpMNPV-specific early gene not required for viral infection in tissue culture. Shippam C, et al. **Virology** 1997 Jan 20;227(2):447-59

The murine cytomegalovirus immediate-early 1 protein stimulates NF-kappa B activity by transactivating the NF-kappa B p105/p50 promoter. Gribaudo G, et al. **Virus Res** 1996 Nov;45(1):15-27

[Pain-induced gene expression in the nervous system] Senba E. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jan;70(1):40-50 (30 ref.) **(Jpn)**

DRUG EFFECTS

Effect of taurine on angiotensin II-induced expression of immediate early response genes in primary cultured neonatal rat heart cells. Takahashi K, et al. **Adv Exp Med Biol** 1996;403:297-304

Caffeine and ischemia--effects on immediate early genes and adenosine receptors. Fredholm BB, et al. **Adv Neurol** 1996; 71:469-74

Molecular biology, V. Immediate early genes. Nestler EJ, et al. **Am J Psychiatry** 1997 Mar;154(3):312

Inhibition of human cytomegalovirus immediate-early gene expression by an antisense oligonucleotide complementary to immediate-early RNA. Anderson KP, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2004-11

Aluminium activation of "immediate early" gene expression in Swiss 3T3 fibroblasts. Bates J, et al. **Biochem Soc Trans** 1996 Aug;24(3):499S

Stimulation of immediate early gene expression by desipramine in rat brain. Dahmen N, et al. **Biol Psychiatry** 1997 Sep 1;42(5):317-23

Oligodeoxynucleotides directed to early growth response gene-1 mRNA inhibit DNA synthesis in the smooth muscle cell. Sachinidis A, et al. **Eur J Pharmacol** 1996 Aug 1; 309(1):95-105

Calcitonin gene-related peptide and ATP induce immediate early gene expression in cultured rat microglial cells. Priller J, et al. **Glia** 1995 Dec;15(4):447-57

Expression of the tumor necrosis factor alpha gene and early response genes by nodularin, a liver tumor promoter, in primary cultured rat hepatocytes. Sueoka E, et al. **J Cancer Res Clin Oncol** 1997;123(8):413-9

Dynorphin regulates D1 dopamine receptor-mediated responses in the striatum: relative contributions of pre- and postsynaptic mechanisms in dorsal and ventral striatum demonstrated by altered immediate-early gene induction. Steiner H, et al. **J Comp Neurol** 1996 Dec 23;376(4):530-41

Amphetamine and dopamine-induced immediate early gene expression in striatal neurons depends on postsynaptic NMDA receptors and calcium. Konradi C, et al. **J Neurosci** 1996 Jul 1;16(13):4231-9

Effects of phencyclidine on immediate early gene expression in the brain. Näkki R, et al. **J Neurosci Res** 1996 Jul 1; 45(1):13-27

Radiation-enhanced expression of interferon-inducible genes in the KG1a primitive hematopoietic cell line. Clave E, et al. **Leukemia** 1997 Jan;11(1):114-9

Calcium-dependent immediate-early gene induction in lymphocytes is negatively regulated by p21Ha-ras. Chen CY, et al. **Mol Cell Biol** 1996 Nov;16(11):6582-92

Immediate early gene induction by natriuretic peptides in PC12 phaeochromocytoma and C6 glioma cells. Thiriet N, et al. **Neuroreport** 1997 Jan 20;8(2):399-402

In vivo carbon monoxide exposure and hypoxic hypoxia stimulate immediate early gene expression. Gess B, et al. **Pflugers Arch** 1997 Sep;434(5):568-74

Immediate early gene expression to examine neuronal activity following acute and chronic stressors in rat pups: examination of neurophysiological alterations underlying behavioral consequences of prenatal cocaine exposure. Goodwin GA, et al. **Physiol Behav** 1997 Jun;61(6):895-902

Negative regulation of immediate-early gene expression of pseudorabies virus by interferon-alpha. Tonomura N, et al. **Vet Microbiol** 1996 Dec;53(3-4):271-81

The effect of aflatoxin B1 on the expression of early response genes and transforming growth factor-alpha in CCl4 induced rat liver injury. Hong SW, et al. **Yonsei Med J** 1997 Jun;38(3):167-77

GENETICS

The effect of hypothermia on protein synthesis and the expression of immediate early genes following transient cerebral ischemia. Kamme F, et al. **Adv Neurol** 1996; 71:199-206; discussion 206-7

Deoxyadenosine-resistant mouse leukemia L1210 cell lines with alterations in early response genes and p53. Cory JG, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3483-9

Immediate early-gene induction in rat osteoblastic cells after mechanical deformation. Dolce C, et al. **Arch Oral Biol** 1996 Dec;41(12):1101-8

Complex patterns of immediate early gene induction in rat brain following brightness discrimination training and pseudotraining. Grimm R, et al. **Behav Brain Res** 1997 Mar; 84(1-2):109-16

Multiple signaling pathways induced by granulocyte colony-stimulating factor involving activation of JAKs, STAT5, and/or STAT3 are required for regulation of three distinct classes of immediate early genes. Tian SS, et al. **Blood** 1996 Dec 15;88(12):4435-44

Developmental and stimulus-specific expression of the immediate-early gene zif268 in rat spinal cord. Liang F, et al. **Brain Res** 1996 Aug 12;729(2):246-52

Olfactory memory and maternal behaviour-induced changes in c-fos and zif/268 mRNA expression in the sheep brain. Da Costa AP, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1-2):63-76

NGFI-A expression in the rat brain after sleep deprivation. Pompeiano M, et al. **Brain Res Mol Brain Res** 1997 Jun; 46(1-2):143-53

AP-1 DNA binding activity induced by hyperosmolality in the rat hypothalamic supraoptic and paraventricular nuclei. Ying Z, et al. **Brain Res Mol Brain Res** 1996 Jul; 39(1-2):109-16

Cloning and characterization of transcriptional promoters from Bacillus subtilis phage 2C. Daxhelet G, et al. **Can J Microbiol** 1996 Sep;42(9):919-26

Leptin receptor of Zucker fatty rat performs reduced signal transduction. Yamashita T, et al. **Diabetes** 1997 Jun; 46(6):1077-80

Different expression of immediate-early genes in the rat paraventricular nucleus induced by stress: relation to corticotropin-releasing factor gene transcription. Imaki T, et al. **Endocr J** 1996 Dec;43(6):629-38

Transcriptional regulation of Sertoli cell immediate early genes by interleukin-6 and interferon-gamma is mediated through phosphorylation of STAT-3 and STAT-1 proteins. Jenab S, et al. **Endocrinology** 1997 Jul; 138(7):2740-6

Rapid and transient increases in cellular immediate early gene and neuropeptide mRNAs in cortical and limbic areas after amygdaloid kindling seizures in the rat. Burazin TC, et al. **Epilepsy Res** 1996 Dec;26(1):281-93

Kindling with clozapine: behavioral and molecular consequences. Stevens JR, et al. **Epilepsy Res** 1996 Dec; 26(1):295-304

5-Hydroxytryptamine induces TIS8/egr-1 and c-fos expression in PC12 cells. Involvement of tyrosine protein phosphorylation. Humblot N, et al. **Eur J Neurosci** 1997 Jan;9(1):84-92

Immediate early gene expression and delayed cell death in limbic areas of the rat brain after kainic acid treatment and recovery in the cold. Goodenough S, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):451-61

Rhythms of cellular immediate-early gene expression: more than just an early response. Carter DA. **Exp Physiol** 1997 Mar;82(2):237-44 (31 ref.)

The early gene region completes the nucleotide sequence of Lactobacillus delbrueckii subsp. lactis phage LL-H. Mikkonen M, et al. **Gene** 1996 Oct 10;175(1-2):49-57

LacZ gene transfer to skeletal muscle using a replication-defective herpes simplex virus type 1 mutant vector. Huard J, et al. **Hum Gene Ther** 1997 Mar 1; 8(4):439-52

Optimization of plasmid vectors for high-level expression in lung epithelial cells. Yew NS, et al. **Hum Gene Ther** 1997 Mar 20;8(5):575-84

The molecular mechanism of action of granulocyte-macrophage colony-stimulating factor. Kwon EM, et al. **J Investig Med** 1996 Oct;44(8):442-6 (51 ref.)

Overexpression of the herpes simplex virus type 1 immediate-early regulatory protein, ICP27, is responsible for the aberrant localization of ICP0 and mutant forms of ICP4 in ICP4 mutant virus-infected cells. Zhu Z, et al. **J Virol** 1996 Aug;70(8):5346-56

Cellular immediate-early genes and cell death in the nervous system. Herzog KH, et al. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):484-8 (26 ref.)

Differential expression of transcription factors in the accumbens of an animal model of ADHD. Papa M, et al. **Neuroreport** 1997 May 6;8(7):1607-12

Conditioned defensive reflex in the edible snail (molecular-genetic aspects). Grinkevich LN, et al. **Neurosci Behav Physiol** 1997 May-Jun;27(3):216-20

Immediate-early baculovirus vectors for foreign gene expression in transformed or infected insect cells. Jarvis DL, et al. **Protein Expr Purif** 1996 Sep;8(2):191-203

IMMUNOLOGY

The temporal pattern of mating-induced immediate-early gene product immunoreactivity in LHRH and non-LHRH

neurons of the estrous ferret forebrain. Wersinger SR, et al. **J Neuroendocrinol** 1996 May;8(5):345–59

Transient up–regulation of P2Y2 nucleotide receptor mRNA expression is an immediate early gene response in activated thymocytes. Koshiba M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):831–6

PHYSIOLOGY

Renal stress response and acute renal failure. Safirstein R. **Adv Ren Replace Ther** 1997 Apr;4(2 Suppl 1):38–42 (25 ref.)

Light–induced phase shifts of circadian activity rhythms and immediate early gene expression in the suprachiasmatic nucleus are attenuated in old C3H/HeN mice. Benloucif S, et al. **Brain Res** 1997 Jan 30;747(1):34–42

Expression of the PC4 gene in the developing rat nervous system. Iacopetti P, et al. **Brain Res** 1996 Jan 29; 707(2):293–7

Saccule contribution to immediate early gene induction in the gerbil brainstem with posterior canal galvanic or hypergravity stimulation. Marshburn TH, et al. **Brain Res** 1997 Jun 27;761(1):51–8

Ubiquitin C–terminal hydrolase is an immediate–early gene essential for long–term facilitation in Aplysia. Hegde AN, et al. **Cell** 1997 Apr 4;89(1):115–26

Developmental and seizure–related regional differences in immediate early gene expression and GABAergic abnormalities in the brain of EL mice. Murashima YL, et al. **Epilepsy Res** 1996 Dec;26(1):3–14

Genomic responses to 5–HT1A or 5–HT2A/2C receptor activation is differentially regulated in four regions of rat brain. Tilakaratne N, et al. **Eur J Pharmacol** 1996 Jun 27; 307(2):211–7

The temporal pattern of mating–induced immediate–early gene product immunoreactivity in LHRH and non–LHRH neurons of the estrous ferret forebrain. Wersinger SR, et al. **J Neuroendocrinol** 1996 May;8(5):345–59

Response modulation in the zebra finch neostriatum: relationship to nuclear gene regulation. Stripling R, et al. **J Neurosci** 1997 May 15;17(10):3883–93

Conditioned defensive reflex in the edible snail (molecular–genetic aspects). Grinkevich LN, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):216–20

Changes in striatal immediate early gene expression following neonatal dopaminergic lesion and effects of intrastriatal dopaminergic transplants. Abrous DN, et al. **Neuroscience** 1996 Jul;73(1):145–59

Lack of control by immediate early response genes in the oxygen regulation of erythropoietin gene expression. Gess B, et al. **Pflugers Arch** 1997 Apr;433(6):827–31

RADIATION EFFECTS

Radiation–enhanced expression of interferon–inducible genes in the KG1a primitive hematopoietic cell line. Clave E, et al. **Leukemia** 1997 Jan;11(1):114–9

Ionizing radiation induces expression of immediate early genes in the rat brain. Usenius T, et al. **Neuroreport** 1996 Nov 4;7(15–17):2559–63

GENES, IMMUNE RESPONSE see **GENES, MHC CLASS II**

GENES, IMMUNOGLOBULIN

see related
IMMUNOGLOBULIN FRAGMENTS

Organization of the human immunoglobulin heavy–chain locus. Matsuda F, et al. **Adv Immunol** 1996;62:1–29 (79 ref.)

Assessment of clonality in cutaneous lymphoid infiltrates by polymerase chain reaction analysis of immunoglobulin heavy chain gene rearrangement. Ritter JH, et al. **Am J Clin Pathol** 1997 Jul;108(1):60–8

Frequency of BCL–2/J(H) translocations in peripheral blood of follicular lymphoma patients. Zhang XY, et al. **Am J Hematol** 1997 Aug;55(4):205–7

Ig rearrangements in isolated Reed–Sternberg cells: conclusions from four different studies. Hummel M, et al. **Ann Oncol** 1996;7 Suppl 4:31–3 (13 ref.)

Somatic hypermutation of immunoglobulin genes. Wagner SD, et al. **Annu Rev Immunol** 1996;14:441–57 (114 ref.)

Nonrandom features of the human immunoglobulin variable region gene repertoire expressed in response to HIV–1. Zouali M. **Appl Biochem Biotechnol** 1996 Oct–Nov; 61(1–2):149–55 (31 ref.)

Immunoglobulin gene sequence analysis of anti–cardiolipin and anti–cardiolipin idiotype (H3) human monoclonal antibodies. Hohmann A, et al. **Autoimmunity** 1995; 22(1):49–58

Influence of the light chain repertoire on immunoglobulin genes encoding thyroid autoantibody Fab from combinatorial libraries. Jaume JC, et al. **Autoimmunity** 1996;24(1):11–23

A single diversified VH gene family dominates the bovine immunoglobulin repertoire. Aitken R, et al. **Biochem Soc Trans** 1997 May;25(2):326S

Multiple copies of the idiotope from the V–88 autoantibody are present in germline DNA of both normal and lupus mice. Bellamy J, et al. **Biochem Soc Trans** 1997 May; 25(2):237S

Immunoglobulin genes from human duodenal and colonic plasma cells are mutated. Dunn–Walters DK, et al. **Biochem Soc Trans** 1997 May;25(2):324S

A NF–AT related protein is implicated in the induction of the immunoglobulin kappa 3'–enhancer activity after B cell stimulation. Meyer KB, et al. **Biochem Soc Trans** 1997 May; 25(2):187S

A human monoclonal antiendothelial cell autoantibody uses a VH gene associated with an anti–DNA autoantibody. Yazici ZA, et al. **Biochem Soc Trans** 1997 May;25(2):321S

Ongoing Ig gene hypermutation in salivary gland mucosa–associated lymphoid tissue–type lymphomas. Bahler DW, et al. **Blood** 1997 May 1;89(9):3335–44

Ig D(H) gene segment transcription and rearrangement before surface expression of the pan–B–cell marker CD19 in normal human bone marrow. Bertrand FE 3rd, et al. **Blood** 1997 Jul 15;90(2):736–44

Restricted use of cationic germline V(H) gene segments in human Rh(D) red cell antibodies. Boucher G, et al. **Blood** 1997 May 1;89(9):3277–86

VH and VL gene analysis in sporadic Burkitt's lymphoma shows somatic hypermutation, intraclonal heterogeneity, and a role for antigen selection. Chapman CJ, et al. **Blood** 1996 Nov 1;88(9):3562–8

High frequency of somatic mutations in the VH genes expressed in prolymphocytic leukemia. Davi F, et al. **Blood** 1996 Nov 15;88(10):3953–61

Antigen selection of multiple myeloma clonogenic B cells as evidenced by V(H) and V(L) gene mutations [letter; comment] Kosmas C, et al. **Blood** 1997 Aug 1;90(3):1334–5 . Comment on: Blood 1997 Jan 1;89(1):219–26.

Migration of cells with immunoglobulin/c–myc recombinations in lymphoid tissues of mice. Müller JR, et al. **Blood** 1997 Jan 1;89(1):291–6

Use of domain–deletion mutants to locate Lutheran blood group antigens to each of the five immunoglobulin superfamily domains of the Lutheran glycoprotein: elucidation of the molecular basis of the Lu(a)/Lu(b) and the Au(a)/Au(b) polymorphisms. Parsons SF, et al. **Blood** 1997 Jun 1;89(11):4219–25

Myeloma VL and VH gene sequences reveal a complementary imprint of antigen selection in tumor cells [see comments] Sahota SS, et al. **Blood** 1997 Jan 1; 89(1):219–26. Comment in: Blood 1997 Aug 1;90(3):1334–5.

Rapid molecular cloning of rearrangements of the IGHJ locus using long–distance inverse polymerase chain reaction. Willis TG, et al. **Blood** 1997 Sep 15;90(6):2456–64

Eradication of polymerase chain reaction detectable immunoglobulin gene rearrangement in non–Hodgkin's lymphoma is associated with decreased relapse after autologous bone marrow transplantation. Zwicky CS, et al. **Blood** 1996 Nov 1;88(9):3314–22

The V4–34 encoded anti–i autoantibodies recognize a large subset of human and mouse B–cells. Silberstein LE, et al. **Blood Cells Mol Dis** 1996;22(2):126–38

Analysis of the immunoglobulin heavy–chain gene rearrangement providing molecular evidence of second lymphoma in a patient in apparent relapse after autotransplantation. Campana S, et al. **Bone Marrow Transplant** 1997 Aug;20(4):341–3

Ongoing immunoglobulin gene mutations in mantle cell lymphomas [see comments] Du MQ, et al. **Br J Haematol** 1997 Jan;96(1):124–31. Comment in: Br J Haematol 1997 Jun;97(4):932–4.

Follicular lymphoma immunoglobulin kappa light chains are affected by the antigen selection process, but to a lesser degree than their partner heavy chains. Stamatopoulos K, et al. **Br J Haematol** 1997 Jan;96(1):132–46

RAG1 mediates signal sequence recognition and recruitment of RAG2 in V(D)J recombination. Difilippantonio MJ, et al. **Cell** 1996 Oct 18;87(2):253–62

Biased VH4 gene segment repertoire in the human tonsil. Pascual V, et al. **Chem Immunol** 1997;67:45–57

Control of the sizes and contents of precursor B cell repertoires in bone marrow. Melchers F. **Ciba Found Symp** 1997;204:172–82; discussion 182–6 (24 ref.)

V(H) gene–family representation in peripheral activated B cells from systemic lupus erythematosus (SLE) patients. Demaison C, et al. **Clin Exp Immunol** 1996 Jun; 104(3):439–45

The normally expressed kappa immunoglobulin light chain gene repertoire and somatic mutations studied by single–sided specific polymerase chain reaction (PCR); frequent occurrence of features often assigned to autoimmunity. Juul L, et al. **Clin Exp Immunol** 1997 Jul; 109(1):194–203

VH genes expressed in peripheral blood IgE–producing B cells from patients with atopic dermatitis. Tilgner J, et al. **Clin Exp Immunol** 1997 Mar;107(3):528–35

Evidence for a selected humoral immune response encoded by VH4 family genes in the synovial membrane of a patient with rheumatoid arthritis (RA). Voswinkel J, et al. **Clin Exp Immunol** 1996 Oct;106(1):5–12

Lessons in transcriptional regulation learned from studies on immunoglobulin genes. Henderson AJ, et al. **Crit Rev Eukaryot Gene Expr** 1995;5(3–4):255–80 (257 ref.)

Production of human antibody repertoires in transgenic mice. Brüggemann M, et al. **Curr Opin Biotechnol** 1997 Aug; 8(4):455–8 (24 ref.)

Somatic hypermutability. Wabl M, et al. **Curr Top Microbiol Immunol** 1996;217:203–19 (90 ref.)

Expression of the immunoglobulin J chain in a murine B lymphoma is driven by autocrine production of interleukin 2. Gaffen SL, et al. **Cytokine** 1996 Jul;8(7):513–24

Structure of mink immunoglobulin gamma chain cDNA. Najakshin AM, et al. **Dev Comp Immunol** 1996 Jul–Aug; 20(4):231–40

High–resolution analysis of immunoglobulin heavy–chain gene rearrangements using denaturing gradient gel electrophoresis. Tierens A, et al. **Diagn Mol Pathol** 1996 Sep;5(3):159–65

Somatic transgene immunization with DNA encoding an immunoglobulin heavy chain. Gerloni M, et al. **DNA Cell Biol** 1997 May;16(5):611–25

A T cell controlled molecular pathway regulating the IgH locus: CD40–mediated activation of the IgH 3' enhancer. Grant PA, et al. **EMBO J** 1996 Dec 2;15(23):6691–700

Characterization of a promoter within the first intron of the human CD4 gene. Rushton JJ, et al. **Eur J Biochem** 1997 May 1;245(3):768–73

Physiological activation of the IgH 3' enhancer in B lineage cells is not blocked by Pax–5. Andersson T, et al. **Eur J Immunol** 1996 Oct;26(10):2499–507

Differences in mutational patterns between rheumatoid factors in health and disease are related to variable heavy chain family and germ–line gene usage. Børretzen M, et al. **Eur J Immunol** 1997 Mar;27(3):735–41

Sequence analysis of human IgVH genes indicates that ileal lamina propria plasma cells are derived from Peyer's patches. Dunn–Walters DK, et al. **Eur J Immunol** 1997 Feb;27(2):463–7

Targeted disruption of the V(H) 81X gene: influence on the B cell repertoire. Huetz F, et al. **Eur J Immunol** 1997 Jan; 27(1):307–14

Diffuse large cell lymphomas are derived from mature B cells carrying V region genes with a high load of somatic mutation and evidence of selection for antibody expression. Küppers R, et al. **Eur J Immunol** 1997 Jun;27(6):1398–405

Pattern of usage and somatic hypermutation in the V(H)5 gene segments of a patient with asthma: implications for IgE. Snow RE, et al. **Eur J Immunol** 1997 Jan;27(1):162–70

Age–related impaired affinity maturation and differential D–JH gene usage in human VH6–expressing B lymphocytes from healthy individuals. van Dijk–Hard I, et al. **Eur J Immunol** 1997 Jun;27(6):1381–6

Serum Gm allotype levels in common variable immunodeficiency: preponderance of homozygous G2m(",") on IGHCG2. Oxelius VA, et al. **Exp Clin Immunogenet** 1996;13(2):70–7

Factors influencing the preimmune antibody repertoire. Kraj P. **Folia Biol (Praha)** 1997;43(2):53–61 (125 ref.)

The human immunoglobulin kappa locus on yeast artificial chromosomes (YACs). Brensing–Küppers J, et al. **Gene** 1997 Jun 3;191(2):173–81

An integrated vector system for the eukaryotic expression of antibodies or their fragments after selection from phage display libraries. Persic L, et al. **Gene** 1997 Mar 10; 187(1):9–18

Intrabodies: turning the humoral immune system outside in for intracellular immunization. Marasco WA. **Gene Ther** 1997 Jan;4(1):11–5 (61 ref.)

Nucleotide sequences of all the gamma gene loci of murine immunoglobulin heavy chains. Akahori Y, et al. **Genomics** 1997 Apr 1;41(1):100–4

The mouse DNA binding protein Rc for the kappa B motif of transcription and for the V(D)J recombination signal sequences contains composite DNA–protein interaction domains and belongs to a new family of large transcriptional proteins. Wu LC, et al. **Genomics** 1996 Aug 1;35(3):415–24

Emergence of the immunoglobulin family: conservation in protein sequence and plasticity in gene organization. Marchalonis JJ, et al. **Glycobiology** 1996 Oct;6(7):657–63 (60 ref.)

The G4 gene is duplicated in 44% of human immunoglobulin heavy chain constant region haplotypes. Brusco A, et al. **Hum Genet** 1997 Jul;100(1):84–9

Discriminating between allelic and interlocus differences among human immunoglobulin VH4 sequences by analyzing single spermatozoa. Cui X, et al. **Hum Genet** 1997 Jul;100(1):96–100

The IGHG3 gene shows a structural polymorphism characterized by different hinge lengths: sequence of a new 2–exon hinge gene. Dard P, et al. **Hum Genet** 1997 Jan; 99(1):138–41

Immunosusceptibility genes in rheumatoid arthritis. Sherritt MA, et al. **Hum Immunol** 1996 Nov;51(1):32–40

Is clonality equivalent to malignancy: specifically, is immunoglobulin gene rearrangement diagnostic of malignant lymphoma? [editorial; comment] Collins RD. **Hum Pathol** 1997 Jul;28(7):757–9. Comment on: Hum Pathol 1997 Jul;28(7):850–61.

B–cell gene rearrangement in benign and malignant lymphoid proliferations of mucosa–associated lymphoid tissue and lymph nodes. Torlakovic E, et al. **Hum Pathol** 1997 Feb; 28(2):166–73

Editing disease–associated autoantibodies. Chen C, et al. **Immunity** 1997 Jan;6(1):97–105

A conserved degradation signal regulates RAG–2 accumulation during cell division and links V(D)J recombination to the cell cycle. Li Z, et al. **Immunity** 1996 Dec;5(6):575–89

An interleukin–2 signal relieves BSAP (Pax5)–mediated repression of the immunoglobulin J chain gene. Rinkenberger JL, et al. **Immunity** 1996 Oct;5(4):377–86

The SCID but not the RAG-2 gene product is required for S mu-S epsilon heavy chain class switching. Rolink A, et al. **Immunity** 1996 Oct;5(4):319-30

Corepression of RelA and c-rel inhibits immunoglobulin kappa gene transcription and rearrangement in precursor B lymphocytes. Scherer DC, et al. **Immunity** 1996 Dec; 5(6):563-74

RT-PCR cloning and characterization of mouse immunoglobulin variable domains with high affinity for HLA-DR antigens. Eswarakumar VP, et al. **Immunogenetics** 1997;46(3):249-50

Functional motifs in the IgH enhancer of the channel catfish. Magor BG, et al. **Immunogenetics** 1997;46(3):192-8

The Igh-1 sequence of the non-obese diabetic (NOD) mouse assigns it to the IgG2c isotype. Martin RM, et al. **Immunogenetics** 1997;46(2):167-8

Duplications and deletions of the human IGHC locus: evolutionary implications. Rabbani H, et al. **Immunogenetics** 1996;45(2):136-41

Functional expression of the IGKV A18b gene and its idiotypic cross-reactivity with the A2 variable region. Reason DC, et al. **Immunogenetics** 1997;45(5):343-4

Organization, polymorphism, and expression of the human T-cell receptor AV1 subfamily. Wei S, et al. **Immunogenetics** 1997;45(6):405-12

Gene family use and somatic mutation in primary and secondary fluorescein-specific IgM antibody responses. Van der Keyl H, et al. **Immunol Cell Biol** 1996 Jun; 74(3):245-54

VH and VL gene complexes encoding an anti-spectrin antibody are defined by nucleotide sequencing of cDNA from a hybridoma generated from Hu-PBL-SCID mouse. Diamond M, et al. **Immunol Invest** 1996 Jul;25(4):291-305

Chicken immunoglobulin mu-chain gene: germline organization and tandem repeats characteristic of class switch recombination. Kitao H, et al. **Immunol Lett** 1996 Sep;52(2-3):99-104

Genetic stability of gene targeted immunoglobulin loci. I. Heavy chain isotype exchange induced by a universal gene replacement vector. Kardinal C, et al. **Immunology** 1996 Nov;89(3):309-15

Molecular characterization of the V regions of four IgE antibodies specific for trichosanthin. Wang Y, et al. **Immunology** 1996 Nov;89(3):316-23

Normal D-JH rearranged products of the IgH gene in SCID mouse bone marrow. Araki R, et al. **Int Immunol** 1996 Jul; 8(7):1045-53

Elevated expression levels of an Ig transgene in mice links the IgH 3' enhancer to the regulation of IgH expression. Arulampalam V, et al. **Int Immunol** 1996 Jul;8(7):1149-57

A 125 bp region of the Ig VH1 promoter is sufficient to confer lymphocyte-specific expression in transgenic mice. Avitahl N, et al. **Int Immunol** 1996 Sep;8(9):1359-66

Effect of different Ig transgenes on B cell differentiation in scid mice. Chang Y, et al. **Int Immunol** 1997 Mar; 9(3):373-80

A region of the 20 bp repeats lies 3' of human Ig Calpha1 and Calpha2 genes. Chen C, et al. **Int Immunol** 1996 Jan; 8(1):115-22

Canonical VH CDR1 nucleotide sequences are conserved in all jawed vertebrates. Hsu E. **Int Immunol** 1996 Jun; 8(6):847-54

Human thymic B cells largely overexpress the VH4 Ig gene family. A possible role in the control of tolerance in situ? Tonnelle C, et al. **Int Immunol** 1997 Mar;9(3):407-14

Independent pathways for de-repression of the mouse Ig heavy chain germ-line epsilon promoter: an IL-4 NAF/NF-IL-4 site as a context-dependent negative element. Wang DZ, et al. **Int Immunol** 1996 Jul;8(7):977-89

IgE, TNF alpha, IL1 beta, IL4 and IFN gamma gene polymorphisms in sheep selected for resistance to fleece rot and flystrike. Engwerda CR, et al. **Int J Parasitol** 1996 Jul;26(7):787-91

Human B cell biology. Kipps TJ. **Int Rev Immunol** 1997; 15(3-4):243-64 (95 ref.)

Immunoglobulin gene diversification in cattle. Meyer A, et al. **Int Rev Immunol** 1997;15(3-4):165-83 (45 ref.)

Cloning and sequencing of the VH and V kappa genes of an anti-CD3 monoclonal antibody, and construction of a mouse/human chimeric antibody. Arakawa F, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):657-62

A three-protein-DNA complex on a B cell-specific domain of the immunoglobulin mu heavy chain gene enhancer. Rao E, et al. **J Biol Chem** 1997 Mar 7;272(10):6722-32

Analysis of the human VH gene repertoire. Differential effects of selection and somatic hypermutation on human peripheral CD5(+)/IgM+ and CD5(-)/IgM+ B cells. Brezinschek HP, et al. **J Clin Invest** 1997 May 15; 99(10):2488-501

Characterization of a germline Vk gene encoding cationic anti-DNA antibody and role of receptor editing for development of the autoantibody in patients with systemic lupus erythematosus. Suzuki N, et al. **J Clin Invest** 1996 Oct 15;98(8):1843-50

The two membrane isoforms of human IgE assemble into functionally distinct B cell antigen receptors. Batista FD, et al. **J Exp Med** 1996 Dec 1;184(6):2197-205

Changes in locus-specific V(D)J recombinase activity induced by immunoglobulin gene products during B cell development. Constantinescu A, et al. **J Exp Med** 1997 Feb 17;185(4):609-20

Ordering of human bone marrow B lymphocyte precursors by single-cell polymerase chain reaction analyses of the rearrangement status of the immunoglobulin H and L chain gene loci. Ghia P, et al. **J Exp Med** 1996 Dec 1; 184(6):2217-29

Enhancer complexes located downstream of both human immunoglobulin Calpha genes. Mills FC, et al. **J Exp Med** 1997 Sep 15;186(6):845-58

Lack of allelic exclusion in B cell chronic lymphocytic leukemia. Rassenti LZ, et al. **J Exp Med** 1997 Apr 21; 185(8):1435-45

Molecular analysis of stimulatory anti-thyrotropin receptor antibodies (TSAbs) involved in Graves' disease. Isolation and reconstruction of antibody genes, and production of monoclonal TSAbs. Akamizu T, et al. **J Immunol** 1996 Oct 1;157(7):3148-52

Molecular identification of a novel family of human Ig superfamily members that possess immunoreceptor tyrosine-based inhibition motifs and homology to the mouse gp49B1 inhibitory receptor. Arm JP, et al. **J Immunol** 1997 Sep 1;159(5):2342-9

Expression of an anti-DNA-associated VH gene in immunized and autoimmune mice. Ash-Lerner A, et al. **J Immunol** 1997 Aug 1;159(3):1508-19

Virtually identical enhancers containing a segment of homology to murine 3'IgH-E(hs1,2) lie downstream of human Ig C alpha 1 and C alpha 2 genes. Chen C, et al. **J Immunol** 1997 Aug 1;159(3):1310-8

The 14.1 surrogate light chain promoter has lineage- and stage-restricted activity. Donohoe ME, et al. **J Immunol** 1997 Feb 15;158(4):1681-91

Analysis of the frequency and pattern of somatic mutations within nonproductively rearranged human variable heavy chain genes. Dörner T, et al. **J Immunol** 1997 Mar 15; 158(6):2779-89

gamma1 heavy chain transgenes are responsive to IFN-gamma repression and CD40 ligation. Elenich LA, et al. **J Immunol** 1997 May 15;158(10):4564-73

Structure and genomic organization of a second class of immunoglobulin light chain genes in the channel catfish. Ghaffari SH, et al. **J Immunol** 1997 Jul 1;159(1):250-8

Differential binding avidities of human IgM for staphylococcal protein A derive from specific germ-line VH3 gene usage. Hakoda M, et al. **J Immunol** 1996 Oct 1;157(7):2976-81

CD40 cross-linking induces Ig epsilon germline transcripts in B cells via activation of NF-kappaB: synergy with IL-4 induction. Iciek LA, et al. **J Immunol** 1997 May 15; 158(10):4769-79

Defective Fc gamma RII gene expression in macrophages of NOD mice: genetic linkage with up-regulation of IgG1 and IgG2b in serum. Luan JJ, et al. **J Immunol** 1996 Nov 15;157(10):4707-16

V(H) repertoire maturation during B cell development in vitro: differential selection of Ig heavy chains by fetal and adult B cell progenitors. Marshall AJ, et al. **J Immunol** 1997 May 1;158(9):4282-91

Use of phage surface expression to analyze regions of human V4-34(VH4-21)-encoded IgG autoantibody required for recognition of DNA: no involvement of the 9G4 idiotope. Mockridge CI, et al. **J Immunol** 1996 Sep 15;157(6):2449-54

Maturation of the antibody response to the major epitope on the self antigen mouse cytochrome c. Restricted V gene usage, selected mutations, and increased affinity. Mueller CM, et al. **J Immunol** 1996 Dec 15;157(12):5329-38

Gene conversion contributes to Ig light chain diversity in cattle. Parng CL, et al. **J Immunol** 1996 Dec 15; 157(12):5478-86

Staphylococcal protein A simultaneously interacts with framework region 1, complementarity-determining region 2, and framework region 3 on human VH3-encoded Igs. Potter KN, et al. **J Immunol** 1996 Oct 1;157(7):2982-8

Generation of diversity in mammalian gut-associated lymphoid tissues: restricted V gene usage does not preclude complex V gene organization. Reynaud CA, et al. **J Immunol** 1997 Oct 1;159(7):3093-5 (18 ref.)

Dyad symmetry within the mouse 3' IgH regulatory region includes two virtually identical enhancers (C alpha3'E and hs3). Saleque S, et al. **J Immunol** 1997 May 15; 158(10):4780-7

Restricted V gene repertoire in the secondary response to insulin in young BALB/c mice. Tikhomirov OYu, et al. **J Immunol** 1997 May 1;158(9):4292-300

Immunoglobulin D(H) recombination signal sequence targeting: effect of D(H) coding and flanking regions and recombination partner. VanDyk LF, et al. **J Immunol** 1996 Nov 1;157(9):4005-15

High-level secretion of two antibody single chain Fv fragments by Pichia pastoris. Eldin P, et al. **J Immunol Methods** 1997 Feb 14;201(1):67-75

Cell display library for gene cloning of variable regions of human antibodies to hepatitis B surface antigen. Higuchi K, et al. **J Immunol Methods** 1997 Mar 28;202(2):193-204

Reliable cloning of functional antibody variable domains from hybridomas and spleen cell repertoires employing a reengineered phage display system. Krebber A, et al. **J Immunol Methods** 1997 Feb 14;201(1):35-55

Amplification of third-complementary-determining-region (CDR-III) of heavy chain immunoglobulin gene (IgH) in one hundred adult acute leukemias. Martinelli G, et al. **Leuk Lymphoma** 1997 Jun;26(1-2):131-9

Analysis of the complementary determining region III of the immunoglobulin heavy chain locus in acute lymphoblastic leukemia in Chilean children. Barriga FJ, et al. **Leukemia** 1996 Nov;10(11):1719-23

Rapid amplification of cDNA ends (RACE) improves the PCR-based isolation of immunoglobulin variable region genes from murine and human lymphoma cells and cell lines. Doenecke A, et al. **Leukemia** 1997 Oct;11(10):1787-92

Comparable gene structure of the immunoglobulin heavy chain variable region between multiple myeloma and normal bone marrow lymphocytes. Kiyoi H, et al. **Leukemia** 1996 Nov;10(11):1804-12

Prognostic significance of immunoglobulin heavy chain gene rearrangement in patients with acute myelogenous leukemia. Kyoda K, et al. **Leukemia** 1997 Jun;11(6):803-6

Automated high resolution PCR fragment analysis for identification of clonally rearranged immunoglobulin heavy chain genes. Linke B, et al. **Leukemia** 1997 Jul; 11(7):1055-62

Comparison of the immunoglobulin gene transcripts between immature B lineage acute lymphoblastic leukemia and the normal phenotypic counterparts in the bone marrow. Mori H, et al. **Leukemia** 1997 Aug;11(8):1274-80

Rearrangement status of the malignant cell determines type of secondary IgH rearrangement (V-replacement or V to DJ joining) in childhood B precursor acute lymphoblastic leukemia. Steenbergen EJ, et al. **Leukemia** 1997 Aug; 11(8):1258-65

Identification of immunoglobulin lambda isotype gene rearrangements by Southern blot analysis. Tümkaya T, et al. **Leukemia** 1996 Nov;10(11):1834-9

A novel nested-PCR strategy for the detection of rearranged immunoglobulin heavy-chain genes in B cell tumors. Voena C, et al. **Leukemia** 1997 Oct;11(10):1793-8

Restriction fragment length polymorphisms of constant region genes of immunoglobulin lambda chains in Venezuelan patients with systemic lupus erythematosus. Blasini AM, et al. **Lupus** 1996 Aug;5(4):300-2

Expression of anti-DNA antibodies. Stevenson FK, et al. **Lupus** 1997;6(3):321-3 (7 ref.)

Genetic control of DNA antibody production: focus on the heavy chain. Tsao B, et al. **Lupus** 1997;6(3):310-4 (21 ref.)

Molecular analysis of the IgH gene in 212 cases of Hodgkin's disease: correlation of IgH clonality with the histologic and the immunocytochemical features. Manzanal AI, et al. **Mod Pathol** 1997 Jul;10(7):679-85

Rapid evolution of immunoglobulin superfamily C2 domains expressed in immune system cells. Hughes AL. **Mol Biol Evol** 1997 Jan;14(1):1-5

The composition of coding joints formed in V(D)J recombination is strongly affected by the nucleotide sequence of the coding ends and their relationship to the recombination signal sequences. Ezekiel UR, et al. **Mol Cell Biol** 1997 Jul;17(7):4191-7

Nucleotide deletion and P addition in V(D)J recombination: a determinant role of the coding-end sequence. Nadel B, et al. **Mol Cell Biol** 1997 Jul;17(7):3768-78

Combinatorial determinants of tissue-specific transcription in B cells and macrophages. Nikolajczyk BS, et al. **Mol Cell Biol** 1997 Jul;17(7):3527-35

Coordinate transcription and V(D)J recombination of the kappa immunoglobulin light-chain locus: NF-kappaB-dependent and -independent pathways of activation. O'Brien DP, et al. **Mol Cell Biol** 1997 Jul; 17(7):3477-87

Variable region gene segment utilization in rhesus monkey hybridomas producing human red blood cell-specific antibodies: predominance of the VH4 family but not VH4-21 (V4-34). Andris JS, et al. **Mol Immunol** 1997 Feb; 34(3):237-53

Rabbit DQ52 and DH gene expression in early B-cell development. Chen HT, et al. **Mol Immunol** 1996 Dec; 33(17-18):1313-21

Transcription of germline VH gene elements by normal human fetal liver. Koenig N, et al. **Mol Immunol** 1997 Mar; 34(4):333-41

Identification and functional characterization of a highly conserved sequence in the intron of the kappa light chain gene. LaVallee TM, et al. **Mol Immunol** 1996 Aug; 33(11-12):973-88

Regulatory elements of the mb-1 gene encoding the Ig-alpha component of the human B-cell antigen receptor. Leduc I, et al. **Mol Immunol** 1996 Dec;33(17-18):1277-86

Developmental specificity of immunoglobulin heavy chain switch region recombination activities. Li MJ, et al. **Mol Immunol** 1997 Feb;34(3):201-8

Immunoglobulin VH gene replacements in a T-cell lymphoblastic lymphoma. Rosenquist R, et al. **Mol Immunol** 1997 Mar;34(4):305-13

Identification and characterization of a human Vlambda5 (T1) germline gene that encodes structurally unique lambda light chains. Solomon A, et al. **Mol Immunol** 1997 Apr; 34(6):463-70

Evaluation of the role of the 3'alpha heavy chain enhancer [3'alpha E(hs1,2)] in Vh gene somatic hypermutation. Tumas-Brundage KM, et al. **Mol Immunol** 1997 Apr; 34(5):367-78

Insertion of 2 kb of bacteriophage DNA between an immunoglobulin promoter and leader exon stops somatic hypermutation in a kappa transgene. Winter DB, et al. **Mol Immunol** 1997 Apr;34(5):359-66

Origin of nodular lymphocyte-predominant Hodgkin's disease from a clonal expansion of highly mutated germinal-center B cells[see comments] Marafioti T, et al.

N Engl J Med 1997 Aug 14;337(7):453–8. Comment in: N Engl J Med 1997 Aug 14;337(7):495–6.

Clonality in nodular lymphocyte-predominant Hodgkin's disease [see comments] Ohno T, et al. **N Engl J Med** 1997 Aug 14;337(7):459–65. Comment in: N Engl J Med 1997 Aug 14;337(7):495–6.

Hodgkin's disease—time for a change [editorial; comment] Schwartz RS. **N Engl J Med** 1997 Aug 14;337(7):495–6. Comment on: N Engl J Med 1997 Aug 14;337(7):453–8. Comment on: N Engl J Med 1997 Aug 14;337(7):459–65.

Functional transplant of megabase human immunoglobulin loci recapitulates human antibody response in mice [published erratum appears in Nat Genet 1997 Aug;16(4):410] Mendez MJ, et al. **Nat Genet** 1997 Feb; 15(2):146–56

Rapid methods for the analysis of immunoglobulin gene hypermutation: application to transgenic and gene targeted mice. Jolly CJ, et al. **Nucleic Acids Res** 1997 May 15; 25(10):1913–9

Rapid induction of B-cell lymphomas in mice carrying a human IgH/c-mycYAC. Bützler C, et al. **Oncogene** 1997 Mar 20;14(11):1383–8

Biased VH family usage in primary gastric B cell lymphoma of mucosa-associated lymphoid tissue-type and the selected V beta expression of T cells infiltrating into the lymphoma cells. Shibata T, et al. **Pathol Int** 1996 Dec;46(12):984–91

Molecular analysis of ocular adnexal lymphoid proliferations. Characteristics of immunoglobulin VH, D and J segment usage. Kon H, et al. **Pathol Res Pract** 1996 Jun; 192(6):523–31

B-cell target DNA quantity is a critical factor in the interpretation of B-cell clonality by PCR. Taylor JM, et al. **Pathology** 1997 Aug;29(3):309–12

Modifying the sequence of an immunoglobulin V-gene alters the resulting pattern of hypermutation [published erratum appears in Proc Natl Acad Sci U S A 1997 May 27;94(11):5979] Goyenechea B, et al.
Proc Natl Acad Sci U S A 1996 Nov 26;93(24):13979–84

A novel chimeric Ig heavy chain from a teleost fish shares similarities to IgD. Wilson M, et al.
Proc Natl Acad Sci U S A 1997 Apr 29;94(9):4593–7

In vivo role of B lymphocytes in somatic transgene immunization. Xiong S, et al.
Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6352–7

CTX, a new lymphocyte receptor in Xenopus, and the early evolution of Ig domains. DuPasquier L, et al.
Res Immunol 1996 May;147(4):218–26 (28 ref.)

The primary antibody repertoire of normal, immunodeficient and autoimmune mice is characterized by differences in V gene expression. Kaushik A, et al. **Res Immunol** 1996 Jan;147(1):9–26 (48 ref.)

The organization and structure of immunoglobulin and T-cell receptor genes in the most phylogenetically distant jawed vertebrates: evolutionary implications. Litman GW, et al. **Res Immunol** 1996 May;147(4):226–33 (36 ref.)

Evolution and somatic learning in V-region genes. Perelson AS, et al. **Res Immunol** 1996 May;147(4):202–8 (8 ref.)

Immunoglobulin gene organization and the mechanism of repertoire development. Butler JE. **Scand J Immunol** 1997 May;45(5):455–62 (69 ref.)

The transcription factor Oct2A enhances V(D)J recombination in fibroblasts. Döbbeling U.
Scand J Immunol 1996 Oct;44(4):323–9

Expression of the human immunoglobulin heavy chain VH6 gene element by fetal B lymphocytes. Raaphorst FM, et al. **Scand J Immunol** 1997 Sep;46(3):292–7

V(D)J recombinase activity in a subset of germinal center B lymphocytes [see comments] Han S, et al. **Science** 1997 Oct 10;278(5336):301–5. Comment in: Science 1997 Oct 10;278(5336):238–9.

Reuse of B lymphocytes in germinal centers [comment] Liu YJ. **Science** 1997 Oct 10;278(5336):238–9. Comment on: Science 1997 Oct 10;278(5336):298–301. Comment on: Science 1997 Oct 10;278(5336):301–5.

V-gene usage and N-region insertions in B-1a, B-1b and conventional B cells. Kantor AB. **Semin Immunol** 1996 Feb; 8(1):29–35 (73 ref.)

V(D)J recombination moves in vitro. Schatz DG.
Semin Immunol 1997 Jun;9(3):149–59 (67 ref.)

Immunoglobulin gene polymerase chain reaction to distinguish hyperreactive malarial splenomegaly from 'African' chronic lymphocytic leukaemia and splenic lymphoma. Jimmy EO, et al.
Trans R Soc Trop Med Hyg 1996 Jan–Feb;90(1):37–9

Selective T cell receptor Vbeta gene usage by alloreactive T cells responding to defined HLA-DR alleles. Lobashevsky A, et al. **Transplantation** 1996 Nov 15; 62(9):1332–40

The VH and CH immunoglobulin genes of swine: implications for repertoire development. Butler JE, et al.
Vet Immunol Immunopathol 1996 Nov;54(1–4):7–17 (20 ref.)

[Immunoglobulin super-gene family and its related genes in detecting MRD in ALL] Dong S, et al.
Chung Hua I Hsueh Tsa Chih 1996 Oct;76(10):742–6 (Eng. Abstr.) **(Chi)**

[Amplification, cloning and sequence analysis of the variable region genes of monoclonal antibody against human bladder carcinoma] Xiao S, et al.
Chung Hua Wai Ko Tsa Chih 1996 Jan;34(1):13–5 (Eng. Abstr.) **(Chi)**

[Splenic lymphoma with villous lymphocytes: morphologic, immunologic and molecular study. Report of three cases (published erratum appears in Ann Pathol 1997 Apr;17(2):122)] Labouyrie E, et al. **Ann Pathol** 1996 Sep; 16(4):285–91 (Eng. Abstr.) **(Fre)**

[Hybridomas as tools for research on MALT type lymphomas] Haedicke W, et al. **Verh Dtsch Ges Pathol** 1996;80:308–11 (Eng. Abstr.) **(Ger)**

[V gene repertoire and pathogenic autoantibodies] Hirabayashi Y, et al. **Nippon Rinsho** 1997 Jun;55(6):1455–61 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Molecular biology in malignant blood diseases. Clinical applications. Study of immunoglobulin and T-cell receptor genes and molecular analysis of the translocations] González M, et al. **Sangre (Barc)** 1996 Aug;41(4):321–34 (95 ref.) **(Spa)**

GENETICS

Poor correlation between clonal immunoglobulin gene rearrangement and immunoglobulin gene transcription in Hodgkin's disease. Yatabe Y, et al. **Am J Pathol** 1996 Oct; 149(4):1351–61

Third complementarity-determining-region sequence analysis of lymphocytic interstitial pneumonia: most cases demonstrate a minor monoclonal population hidden among normal lymphocyte clones. Kurosu K, et al.
Am J Respir Crit Care Med 1997 Apr;155(4):1453–60

Strand breaks in immunoglobulin gene hypermutation. Lo AK, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:432–5

Use of phage expression to analyze regions of a human V4–34(VH4–21)-encoded IgG autoantibody required for recognition of DNA. No involvement of the 9G4 idiotope. Mockridge I, et al. **Ann N Y Acad Sci** 1997 Apr 5; 815:338–41

IgH and L chain variable region gene sequence analyses of twelve synovial tissue-derived B cell lines producing IgA, IgG, and IgM rheumatoid factors structure/function comparisons of antigenic specificity, V gene sequence, and Ig isotype. Jain RI, et al. **Autoimmunity** 1995;22(4):229–43

Multiple bcl-2/Ig gene rearrangements in persistent polyclonal B-cell lymphocytosis. Delage R, et al.
Br J Haematol 1997 Jun;97(3):589–95

Monoclonal origin of localised orbital amyloidosis detected by molecular analysis. Pasternak S, et al.
Br J Ophthalmol 1996 Nov;80(11):1013–7 (33 ref.)

Transrearrangements as biomarkers for risk of lymphoid malignancy. Kirsch IR, et al. **Cancer Surv** 1996;28:311–27 (81 ref.)

Mechanism of V(D)J recombination. Zhu C, et al.
Cancer Surv 1996;28:295–309 (69 ref.)

Reduced X-ray resistance and homologous recombination frequencies in a RAD54-/- mutant of the chicken DT40 cell line. Bezzubova O, et al. **Cell** 1997 Apr 18;89(2):185–93

Somatic hypermutation of immunoglobulin genes in human neonates. Ridings J, et al. **Clin Exp Immunol** 1997 May; 108(2):366–74

The molecular basis of somatic hypermutation of immunoglobulin genes. Storb U. **Curr Opin Immunol** 1996 Apr;8(2):206–14 (88 ref.)

PCR analysis of IgH and BCL2 gene rearrangement in the diagnosis of follicular lymphoma in lymph node fine-needle aspiration. A critical appraisal. Aiello A, et al.
Diagn Mol Pathol 1997 Jun;6(3):154–60

Obtaining clone-specific primer and probe for the immunoglobulin heavy-chain gene from paraffin-embedded tissue of B-cell lymphoma: technical considerations. Wu G, et al. **Diagn Mol Pathol** 1997 Jun; 6(3):147–53

Immunoglobulin lambda light chain orphons on human chromosome 8q11.2. Frippiat JP, et al. **Eur J Immunol** 1997 May;27(5):1260–5

Analysis of the VH3 repertoire among genetically disparate individuals. Rao SP, et al. **Exp Clin Immunogenet** 1996; 13(3–4):131–8

Homologues of murine Vh11 gene are conserved during evolution. Saini S, et al. **Exp Clin Immunogenet** 1996; 13(3–4):154–60

Induction of somatic mutation in a human B cell line in vitro. Denépoux S, et al. **Immunity** 1997 Jan;6(1):35–46

Specific transcription of the unrearranged TCR V beta 8.2 gene in lymphoid tissues occurs independently of V(D)J rearrangement. Jolly CJ, et al. **Immunol Cell Biol** 1997 Feb; 75(1):13–20

Mechanism of antigen-driven somatic hypermutation of rearranged immunoglobulin V(D)J genes in the mouse. Steele EJ, et al. **Immunol Cell Biol** 1997 Feb;75(1):82–95 (92 ref.)

Characterization of the bovine C alpha gene. Brown WR, et al. **Immunology** 1997 May;91(1):1–6

The swine Ig heavy chain locus has a single JH and no identifiable IgD. Butler JE, et al. **Int Immunol** 1996 Dec; 8(12):1897–904

Somatic hypermutation of Ig genes in patients with xeroderma pigmentosum (XP-D). Wagner SD, et al.
Int Immunol 1996 May;8(5):701–5

Assessment of IgH PCR strategies in multiple myeloma. Owen RG, et al. **J Clin Pathol** 1996 Aug;49(8):672–5

Ig VH1 genes expressed in B cell chronic lymphocytic leukemia exhibit distinctive molecular features. Johnson TA, et al. **J Immunol** 1997 Jan 1;158(1):235–46

Ig light chain gene in the Siberian sturgeon (Acipenser baeri). Lundqvist M, et al. **J Immunol** 1996 Sep 1;157(5):2031–8

Molecular analysis of the immunoglobulin VH gene rearrangement in a primary cutaneous immunoblastic B-cell lymphoma by micromanipulation and single-cell PCR. Gellrich S, et al. **J Invest Dermatol** 1997 Oct; 109(4):541–5

Transgenic expression of VpreB-3 under the control of the immunoglobulin heavy chain enhancer and SV40 promoter. Hagiwara S. **Kobe J Med Sci** 1996 Feb;42(1):43–59

Intraclonal offspring expansion of gastric low-grade MALT-type lymphoma: evidence for the role of antigen-driven high-affinity mutation in lymphomagenesis. Qin Y, et al. **Lab Invest** 1997 Apr;76(4):477–85

Regulation of the replication of the murine immunoglobulin heavy chain gene locus: evaluation of the role of the 3' regulatory region. Michaelson JS, et al. **Mol Cell Biol** 1997 Oct;17(10):6167–74

V lambda-light chain genes reconstitute immune responses to defined carbohydrate antigens or haptens by utilizing different VH genes. Bot A, et al. **Mol Immunol** 1996 Dec; 33(17–18):1359–68

Involvement of the E2A basic helix-loop-helix protein in immunoglobulin heavy chain class switching. Goldfarb AN, et al. **Mol Immunol** 1996 Aug;33(11–12):947–56

IMGT, the international ImMunoGeneTics database. Giudicelli V, et al. **Nucleic Acids Res** 1997 Jan 1; 25(1):206–11

The presence of direct repeats does not influence coding joint formation during V(D)J recombination. Nourrit F, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3968–73

Polymerase chain reaction based gene rearrangement studies in the diagnosis of follicular lymphoma—performance in formaldehyde-fixed tissue and application in clinical problem cases. Miettinen M, et al. **Pathol Res Pract** 1997; 193(1):9–19

Jaw, adaptive immunity and phylogeny of vertebrate antibody VH gene family. Andersson E, et al.
Res Immunol 1996 May;147(4):233–40 (65 ref.)

Selective usage of VH genes in adult human B lymphocyte repertoires. Davidkova G, et al. **Scand J Immunol** 1997 Jan;45(1):62–73

[Immunoglobulin heavy chain variable region(VH) genes in B cell clones producing anti-colon antibodies in ulcerative colitis] Inoue N, et al. **Nippon Rinsho** 1996 Apr; 54(4):1176–81 (27 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Skewed VH and V kappa gene family expression and pairing occurs among B lymphocytes in autoimmune motheaten mice. Saitoh Y, et al. **Autoimmunity** 1995;21(3):185–193

B lineage-restricted rearrangement of a human Ig kappa transgene. Cavelier P, et al. **Eur J Immunol** 1997 Jul; 27(7):1626–31

Molecular mechanisms governing reading frame choice of immunoglobulin diversity genes. Raaphorst FM, et al.
Immunol Today 1997 Jan;18(1):37–43 (58 ref.)

Comparison of the immunoglobulin heavy-chain complementarity determining region-3 structure among the DNA sequences and the mu- and gamma-transcripts in human B-lineage cells. Kiyoi H, et al. **Immunology** 1996 Nov;89(3):324–30

The swine Ig heavy chain locus has a single JH and no identifiable IgD. Butler JE, et al. **Int Immunol** 1996 Dec; 8(12):1897–904

The Ig kappa 3'-enhancer triggers gene expression in early B lymphocytes but its activity is enhanced on B cell activation. Meyer KB, et al. **Int Immunol** 1996 Oct; 8(10):1561–8

Somatic diversification of antibody responses. Zheng B, et al. **J Clin Immunol** 1996 Jan;16(1):1–11 (129 ref.)

B lymphocytes of xeroderma pigmentosum or Cockayne syndrome patients with inherited defects in nucleotide excision repair are fully capable of somatic hypermutation of immunoglobulin genes. Kim N, et al. **J Exp Med** 1997 Aug 4;186(3):413–9

Interdependence of N nucleotide addition and recombination site choice in V(D)J rearrangement. Kepler TB, et al.
J Immunol 1996 Nov 15;157(10):4451–7

Ig light chain gene in the Siberian sturgeon (Acipenser baeri). Lundqvist M, et al. **J Immunol** 1996 Sep 1;157(5):2031–8

The B cell response to autologous type II collagen: biased V gene repertoire with V gene sharing and epitope shift. Mo JA, et al. **J Immunol** 1996 Sep 15;157(6):2440–8

Characterization of a light chain product of the human JC lambda 7 gene complex. Niewold TA, et al. **J Immunol** 1996 Nov 15;157(10):4474–7

VHDJH gene sequences and antigen reactivity of monoclonal antibodies produced by human B-1 cells: evidence for somatic selection. Schettino EW, et al.
J Immunol 1997 Mar 1;158(5):2477–89

Single chain Ig/gamma gene-redirected human T lymphocytes produce cytokines, specifically lyse tumor cells, and recycle lytic capacity. Weijtens ME, et al.
J Immunol 1996 Jul 15;157(2):836–43

Regulation of IgM and IgD heavy chain gene expression: effect of abrogation of intergenic transcriptional termination. Yuan D, et al. **J Immunol** 1996 Sep 1; 157(5):2073–81

Of four murine, anti-Shigella dysenteriae type 1 O-polysaccharide antibodies, three employ V-genes that differ extensively from those of the fourth. Miller CE, et al. **Mol Immunol** 1996 Nov;33(16):1217–22

[Clonality analysis of B-cell lymphoproliferative disorders by means of immunoglobulin heavy chain polymerase reaction] László T, et al. **Orv Hetil** 1996 Sep 8;

GENES, IMMUNOGLOBULIN

137(36):1963–7 (25 ref.) (Eng. Abstr.) **(Hun)**

PHYSIOLOGY

Control by Ig genes of the responsiveness to a neutralization viral B cell epitope. Leclerc C, et al. **J Immunol** 1997 Apr 1;158(7):3252–8

The transcription factor B cell–specific activator protein (BSAP) enhances both IL-4– and CD40–mediated activation of the human epsilon germline promoter. Thienes CP, et al. **J Immunol** 1997 Jun 15;158(12):5874–82

Analysis of B/W–DNA 16 V(H) gene expression following DNA–peptide immunization. Lerner J, et al. **Lupus** 1997; 6(3):328–9

GENES, IMMUNOGLOBULIN HEAVY CHAIN see **GENES, IMMUNOGLOBULIN**

GENES, IMMUNOGLOBULIN LIGHT CHAIN see **GENES, IMMUNOGLOBULIN**

GENES, IMMUNOGLOBULIN VH GERM LINE see **GENES, IMMUNOGLOBULIN**

GENES, INSECT

'Patching' embryonic development to cancer [news] Dickman S. **Ann Oncol** 1997 Mar;8(3):209–10

Signaling pathways that establish the dorsal–ventral pattern of the Drosophila embryo. Morisato D, et al. **Annu Rev Genet** 1995;29:371–99 (165 ref.)

Molecular organization of the glutathione reductase gene in Drosophila melanogaster. Candas M, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):323–34

Sex–specific and hormone–controlled expression of a vitellogenin–encoding gene in the gypsy moth. Adamczyk JJ Jr, et al. **Arch Insect Biochem Physiol** 1996;31(3):237–56

Developmental regulation of yolk protein gene expression in Anastrepha suspensa. Handler AM. **Arch Insect Biochem Physiol** 1997;36(1):25–35

Structure and organization of amplicons containing the E4 esterase genes responsible for insecticide resistance in the aphid Myzus persicae (Sulzer). Field LM, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):867–71

Identification of a novel Drosophila melanogaster gene, angel, a member of a nested gene cluster at locus 59F4,5. Kurzik–Dumke U, et al. **Biochim Biophys Acta** 1996 Sep 11;1308(3):177–81

Isolation and cloning of a Drosophila homolog to the mammalian RACK1 gene, implicated in PKC–mediated signalling. Vani K, et al. **Biochim Biophys Acta** 1997 Aug 21;1358(1):67–71

Drosophila Hox complex downstream targets and the function of homeotic genes. Graba Y, et al. **Bioessays** 1997 May;19(5):379–88 (72 ref.)

Three mutant genes cooperatively induce brain tumor formation in Drosophila malignant brain tumor. Riede I. **Cancer Genet Cytogenet** 1996 Sep;90(2):135–41

The dorsoventral regulatory gene cassette spätzle/Toll/cactus controls the potent antifungal response in Drosophila adults. Lemaitre B, et al. **Cell** 1996 Sep 20; 86(6):973–83

Proneural function of neurogenic genes in the developing Drosophila eye. Baker NE, et al. **Curr Biol** 1997 Feb 1; 7(2):122–32

The Drosophila grapes gene is related to checkpoint gene chk1/rad27 and is required for late syncytial division fidelity. Fogarty P, et al. **Curr Biol** 1997 Jun 1;7(6):418–26

Muscles in the Drosophila second thoracic segment are patterned independently of autonomous homeotic gene function. Roy S, et al. **Curr Biol** 1997 Apr 1;7(4):222–7

Pattern formation: The link between ovary and embryo. Stein D. **Curr Biol** 1995 Dec 1;5(12):1360–3 (16 ref.)

Extent and character of circadian gene expression in Drosophila melanogaster: identification of twenty oscillating mRNAs in the fly head. Van Gelder RN, et al. **Curr Biol** 1995 Dec 1;5(12):1424–36

Biparous: a novel bHLH gene expressed in neuronal and glial precursors in Drosophila. Bush A, et al. **Dev Biol** 1996 Dec 15;180(2):759–72

The Drosophila Broad–Complex early gene directly regulates late gene transcription during the ecdysone–induced puffing cascade. Crossgrove K, et al. **Dev Biol** 1996 Dec 15;180(2):745–58

The role of HOM–C genes in segmental transformations: reexamination of the Drosophila Sex combs reduced embryonic phenotype. Pederson JD, et al. **Dev Biol** 1996 Nov 25;180(1):131–42

Control of early neurogenesis of the Drosophila brain by the head gap genes tll, otd, ems, and btd. Younossi–Hartenstein A, et al. **Dev Biol** 1997 Feb 15; 182(2):270–83

Juvenile hormone regulation and developmental expression of a Tenebrio desiccation stress protein gene. Graham LA, et al. **Dev Genet** 1996;18(4):296–305

Mutations in the gene stand still disrupt germ cell differentiation in Drosophila ovaries. Mulligan PK, et al. **Dev Genet** 1996;18(4):316–24

Novel genetic screen for genes involved in posterior body patterning in Drosophila. Wilson JE, et al. **Dev Genet** 1996; 19(3):199–209

The Drosophila dCREB–A gene is required for dorsal/ventral patterning of the larval cuticle. Andrew DJ, et al. **Development** 1997 Jan;124(1):181–93

who encodes a KH RNA binding protein that functions in muscle development. Baehrecke EH. **Development** 1997 Apr;124(7):1323–32

In vivo requirement for the paired domain and homeodomain of the paired segmentation gene product. Bertuccioli C, et al. **Development** 1996 Sep;122(9):2673–85

The patched signaling pathway mediates repression of gooseberry allowing neuroblast specification by wingless during Drosophila neurogenesis. Bhat KM. **Development** 1996 Sep;122(9):2921–32

Requirement for engrailed and invected genes reveals novel regulatory interactions between engrailed/invected, patched, gooseberry and wingless during Drosophila neurogenesis. Bhat KM, et al. **Development** 1997 May; 124(9):1675–88

The Drosophila Enhancer of zeste gene encodes a chromosomal protein: examination of wild–type and mutant protein distribution. Carrington EA, et al. **Development** 1996 Dec;122(12):4073–83

The neurogenic genes egghead and brainiac define a novel signaling pathway essential for epithelial morphogenesis during Drosophila oogenesis. Goode S, et al. **Development** 1996 Dec;122(12):3863–79

The Drosophila gene fs(2)cup interacts with otu to define a cytoplasmic pathway required for the structure and function of germ–line chromosomes. Keyes LN, et al. **Development** 1997 Apr;124(7):1419–31

Concentration–dependent patterning by an ectopic expression domain of the Drosophila gap gene knirps. Kosman D, et al. **Development** 1997 Apr;124(7):1343–54

The role of selectins in Drosophila eye and bristle development. Leshko–Lindsay LA, et al. **Development** 1997 Jan;124(1):169–80

In situ dissection of the Fab–7 region of the bithorax complex into a chromatin domain boundary and a Polycomb–response element. Mihaly J, et al. **Development** 1997 May;124(9):1809–20

The Drosophila Serum Response Factor gene is required for the formation of intervein tissue of the wing and is allelic to blistered. Montagne J, et al. **Development** 1996 Sep; 122(9):2589–97

Evolution of the insect body plan as revealed by the Sex combs reduced expression pattern. Rogers BT, et al. **Development** 1997 Jan;124(1):149–57

Regulation of a dpp target gene in the Drosophila embryo. Rusch J, et al. **Development** 1997 Jan;124(2):303–11

Ectopic eye development in Drosophila induced by directed dachshund expression. Shen W, et al. **Development** 1997 Jan;124(1):45–52

Drosophila brachyenteron regulates gene activity and morphogenesis in the gut. Singer JB, et al. **Development** 1996 Dec;122(12):3707–18

The spalt gene links the A/P compartment boundary to a linear adult structure in the Drosophila wing. Sturtevant MA, et al. **Development** 1997 Jan;124(1):21–32

The Drosophila decapentaplegic and short gastrulation genes function antagonistically during adult wing vein development. Yu K, et al. **Development** 1996 Dec; 122(12):4033–44

The manganese superoxide dismutase gene of Drosophila: structure, expression, and evidence for regulation by MAP kinase. Duttaroy A, et al. **DNA Cell Biol** 1997 Apr; 16(4):391–9

A new gene encoding a putative transcription factor regulated by the Drosophila circadian clock. Rouyer F, et al. **EMBO J** 1997 Jul 1;16(13):3944–54

Multiple circadian–regulated elements contribute to cycling period gene expression in Drosophila. Stanewsky R, et al. **EMBO J** 1997 Aug 15;16(16):5006–18

Two types of polyadenated mRNAs are synthesized from Drosophila replication–dependent histone genes. Akhmanova A, et al. **Eur J Biochem** 1997 Mar 1; 244(2):294–300

Up–regulation of an adult cuticular gene by 20–hydroxyecdysone in insect metamorphosing epidermis cultured in vitro. Braquart C, et al. **Eur J Biochem** 1996 Sep 1;240(2):336–41

Cloning of the gene encoding the antibacterial peptide drosocin involved in Drosophila immunity. Expression studies during the immune response. Charlet M, et al. **Eur J Biochem** 1996 Nov 1;241(3):699–706

The Drosophila Lsp–1 beta gene. A structural and phylogenetic analysis. Massey HC Jr, et al. **Eur J Biochem** 1997 Apr 1;245(1):199–207

Sequence, structure and evolution of the ecdysone–inducible Lsp–2 gene of Drosophila melanogaster. Mousseron–Grall S, et al. **Eur J Biochem** 1997 Apr 1;245(1):191–8

Characterization of a Drosophila proximal–sequence–element–binding protein involved in transcription of small nuclear RNA genes. Su Y, et al. **Eur J Biochem** 1997 Aug 15;248(1):231–7

Neurites of period–expressing PDH cells in the fly's optic lobe exhibit circadian oscillations in morphology. Pyza E, et al. **Eur J Neurosci** 1997 Aug;9(8):1784–8

Expression of Drosophila melanogaster gene encoding transcription factor GAGA is tissue–specific and temperature–dependent. Baricheva EM, et al. **FEBS Lett** 1997 Sep 8;414(2):285–8

Molecular characterization of the C–3 DNA puff gene of Rhynchosciara americana. Penalva LO, et al. **Gene** 1997 Jul 9;193(2):163–72

Expression of individual members of a tRNA(Gly)1 multigene family in vivo follows the same pattern as in vitro. Sharma S, et al. **Gene** 1997 Jul 31;194(2):257–66

A Drosophila gene with predicted rhoGEF, pleckstrin homology and SH3 domains is highly expressed in morphogenic tissues. Werner LA, et al. **Gene** 1997 Mar 10;187(1):107–14

Developmental expression of the Bombyx Antennapedia homologue and homeotic changes in the Nc mutant. Nagata T, et al. **Genes Cells** 1996 Jun;1(6):555–68

Roles of multiple promoter elements of the proliferating cell nuclear antigen gene during Drosophila development. Yamaguchi M, et al. **Genes Cells** 1996 Jan;1(1):47–58

The Drosophila short gastrulation gene prevents Dpp from autoactivating and suppressing neurogenesis in the neuroectoderm. Biehs B, et al. **Genes Dev** 1996 Nov 15; 10(22):2922–34

UbcD1, a Drosophila ubiquitin–conjugating enzyme required for proper telomere behavior. Cenci G, et al. **Genes Dev** 1997 Apr 1;11(7):863–75

araucan and caupolican provide a link between compartment subdivisions and patterning of sensory organs and veins in the Drosophila wing. Gómez–Skarmeta JL, et al. **Genes Dev** 1996 Nov 15;10(22):2935–45

The homeobox gene Distal–less induces ventral appendage development in Drosophila. Gorfinkiel N, et al. **Genes Dev** 1997 Sep 1;11(17):2259–71

hiiragi, a gene essential for wing development in Drosophila melanogaster, affects the Notch cascade. Murata T, et al. **Genes Genet Syst** 1996 Aug;71(4):247–54

Pegasus, a small terminal inverted repeat transposable element found in the white gene of Anopheles gambiae. Besansky NJ, et al. **Genetica** 1996 Oct;98(2):119–29

Quetzal: a transposon of the Tc1 family in the mosquito Anopheles albimanus. Ke Z, et al. **Genetica** 1996 Oct; 98(2):141–7

The 93D (hsr–omega) locus of Drosophila: non–coding gene with house–keeping functions. Lakhotia SC, et al. **Genetica** 1996 May;97(3):339–48 (80 ref.)

Genetic and molecular analysis of a set of unstable white mutants in Drosophila melanogaster. Rasmuson–Lestander A, et al. **Genetica** 1996 Oct;98(2):179–92

Molecular characterization of the cinnabar region of Drosophila melanogaster: identification of the cinnabar transcription unit. Warren WD, et al. **Genetica** 1996–97; 98(3):249–62

Molecular genetic analysis of Drosophila ash2, a member of the trithorax group required for imaginal disc pattern formation. Adamson AL, et al. **Genetics** 1996 Oct; 144(2):621–33

Somatic reversion of chromosomal position effects in Drosophila melanogaster. Ahmad K, et al. **Genetics** 1996 Oct;144(2):657–70

Mobilization of a Minos transposon in Drosophila melanogaster chromosomes and chromatid repair by heteroduplex formation. Arcà B, et al. **Genetics** 1997 Feb; 145(2):267–79

Origin and evolution of a new gene descended from alcohol dehydrogenase in Drosophila. Begun DJ. **Genetics** 1997 Feb;145(2):375–82

Ras1–mediated modulation of Drosophila homeotic function in cell and segment identity. Boube M, et al. **Genetics** 1997 Jun;146(2):619–28

The autosomal FLP–DFS technique for generating germline mosaics in Drosophila melanogaster. Chou TB, et al. **Genetics** 1996 Dec;144(4):1673–9

Dosage–sensitive maternal modifiers of the drosophila segmentation gene runt. Duffy JB, et al. **Genetics** 1996 Mar; 142(3):839–52

Selection on X–linked genes during speciation in the Drosophila athabasca complex. Ford MJ, et al. **Genetics** 1996 Oct;144(2):689–703

Analysis of the 5' junctions of R2 insertions with the 28S gene: implications for non–LTR retrotransposition. George JA, et al. **Genetics** 1996 Mar;142(3):853–63

Insertions of hybrid P elements in the yellow gene of Drosophila cause a large variety of mutant phenotypes. Georgiev P, et al. **Genetics** 1997 Jun;146(2):583–94

Interaction between mutations in the suppressor of Hairy wing and modifier of mdg4 genes of Drosophila melanogaster affecting the phenotype of gypsy–induced mutations. Georgiev P, et al. **Genetics** 1996 Feb; 142(2):425–36

Cytoplasmic dynein function is essential in Drosophila melanogaster. Gepner J, et al. **Genetics** 1996 Mar; 142(3):865–78

Engineering the Drosophila genome: chromosome rearrangements by design. Golic KG, et al. **Genetics** 1996 Dec;144(4):1693–711

Topological constraints on transvection between white genes within the transposing element TE35B in Drosophila melanogaster. Gubb D, et al. **Genetics** 1997 Jul; 146(3):919–37

The Drosophila engrailed and invected genes: partners in regulation, expression and function. Gustavson E, et al. **Genetics** 1996 Mar;142(3):893–906

DNA sequence variation at the period locus reveals the history of species and speciation events in the Drosophila virilis group. Hilton H, et al. **Genetics** 1996 Nov; 144(3):1015–25

Transcription of gypsy elements in a Y–chromosome male fertility gene of Drosophila hydei. Hochstenbach R, et al.

Genetics 1996 Feb;142(2):437–46
The maternal nudel protein of Drosophila has two distinct roles important for embryogenesis. Hong CC, et al. **Genetics** 1996 Aug;143(4):1653–61
Molecular characterization of neurally expressing genes in the para sodium channel gene cluster of drosophila. Hong CS, et al. **Genetics** 1996 Mar;142(3):879–92
Genetic characterization of the homeodomain-independent activity of the Drosophila fushi tarazu gene product. Hyduk D, et al. **Genetics** 1996 Feb;142(2):481–92
The Om (1E) mutation in Drosophila ananassae causes compound eye overgrowth due to tom retrotransposon-driven overexpression of a novel gene. Juni N, et al. **Genetics** 1996 Jul;143(3):1257–70
Acclimation and selection for increased resistance to thermal stress in Drosophila buzzatii. Krebs RA, et al. **Genetics** 1996 Feb;142(2):471–9
Response of two heat shock genes to selection for knockdown heat resistance in Drosophila melanogaster. McColl G, et al. **Genetics** 1996 Aug;143(4):1615–27
Polygenic mutation in Drosophila melanogaster: genetic interactions between selection lines and candidate quantitative trait loci. Mackay TF, et al. **Genetics** 1996 Oct; 144(2):671–88
Genes regulating the remote wing margin enhancer in the Drosophila cut locus. Morcillo P, et al. **Genetics** 1996 Nov; 144(3):1143–54
Segregation distortion in Drosophila melanogaster: genomic organization of Responder sequences. Moschetti R, et al. **Genetics** 1996 Dec;144(4):1365–71
Hermes, a functional non-Drosophilid insect gene vector from Musca domestica. O'Brochta DA, et al. **Genetics** 1996 Mar;142(3):907–14
Rapid evolution of a coadapted gene complex: evidence from the Segregation Distorter (SD) system of meiotic drive in Drosophila melanogaster. Palopoli MF, et al. **Genetics** 1996 Aug;143(4):1675–88
Chromosomal homology and molecular organization of Muller's elements D and E in the Drosophila repleta species group. Ranz JM, et al. **Genetics** 1997 Feb;145(2):281–95
Morewright (mwr), a new meiotic mutant of Drosophila melanogaster affecting nonexchange chromosome segregation. Rasooly RS. **Genetics** 1996 Dec; 144(4):1725–34
Nucleotide variation and conservation at the dpp locus, a gene controlling early development in Drosophila. Richter B, et al. **Genetics** 1997 Feb;145(2):311–23
Specificity of chromosome damage caused by the Rex element of Drosophila melanogaster. Robbins LG. **Genetics** 1996 Sep;144(1):109–15
Timing of expression of a gene in the adult Drosophila is regulated by mechanisms independent of temperature and metabolic rate. Rogina B, et al. **Genetics** 1996 Aug; 143(4):1643–51
The Drosophila Eip78C gene is not vital but has a role in regulating chromosome puffs. Russell SR, et al. **Genetics** 1996 Sep;144(1):159–70
Copy number and orientation determine the susceptibility of a gene to silencing by nearby heterochromatin in Drosophila. Sabl JF, et al. **Genetics** 1996 Feb;142(2):447–58
Differentiation of Muller's chromosomal elements D and E in the obscura group of Drosophila. Segarra C, et al. **Genetics** 1996 Sep;144(1):139–46
The enigma of Y chromosome degeneration: TRAM, a novel retrotransposon is preferentially located on the Neo-Y chromosome of Drosophila miranda. Steinemann M, et al. **Genetics** 1997 Feb;145(2):261–6
A genome-wide survey of hybrid incompatibility factors by the introgression of marked segments of Drosophila mauritiana chromosomes into Drosophila simulans. True JR, et al. **Genetics** 1996 Mar;142(3):819–37
Mutations in new cell cycle genes that fail to complement a multiply mutant third chromosome of Drosophila. White-Cooper H, et al. **Genetics** 1996 Nov;144(3):1097–111
Identification of the sex-determining region of the Ceratitis capitata Y chromosome by deletion mapping. Willhoeft U, et al. **Genetics** 1996 Oct;144(2):737–45
rdgE: a novel retinal degeneration mutation in Drosophila melanogaster. Zars T, et al. **Genetics** 1996 Sep; 144(1):127–38
Identification and genetic analysis of wunen, a gene guiding Drosophila melanogaster germ cell migration. Zhang N, et al. **Genetics** 1996 Jul;143(3):1231–41
Genetic and molecular analysis of smooth, a quantitative trait locus affecting bristle number in Drosophila melanogaster. zur Lage P, et al. **Genetics** 1997 Jun;146(2):607–18
Around the genomes: the Drosophila genome project. Rubin GM. **Genome Res** 1996 Feb;6(2):71–9 (26 ref.)
Cloning and characterization of two vertebrate homologs of the Drosophila eyes absent gene. Zimmerman JE, et al. **Genome Res** 1997 Feb;7(2):128–41
A female sterile embryonic lethal in the maternally haplo-insufficient 21 B8.C1–21 C8.D1 genomic region of Drosophila melanogaster. Chandrashekaran S. **Hereditas** 1995;123(2):121–6
Genetic and phenotypic analysis of the genes of the elbow-no-ocelli region of chromosome 2L of Drosophila melanogaster. Davis T, et al. **Hereditas** 1997;126(1):67–75
Evolution of the dec-1 eggshell locus in Drosophila. III. Sequence comparisons of the simulans complex repeated domain reveal non-concerted evolution. Escher SA, et al. **Hereditas** 1996;124(2):111–20
Suppression of the Drosophila Curly mutation by fluorescent light. Pavelka J, et al. **Hereditas** 1996;124(2):191–7
Testing the unique amplification event and the worldwide migration hypothesis of insecticide resistance genes with sequence data. Guillemaud T, et al. **Heredity** 1996 Nov;77 (Pt 5):535–43
Chromosomal distribution of the 412 retrotransposon in natural populations of Drosophila simulans. Hoogland C, et al. **Heredity** 1997 Aug;79 (Pt 2):128–34
Coamplification of esterase A and B genes as a single unit in Culex pipiens mosquitoes. Rooker S, et al. **Heredity** 1996 Nov;77 (Pt 5):555–61
Molecular characterization of a defensin gene from the mosquito, Aedes aegypti. Cho WL, et al. **Insect Biochem Mol Biol** 1997 May;27(5):351–8
Isolation and characterization of a genomic clone for the gene of an insect molting enzyme, chitinase. Choi HK, et al. **Insect Biochem Mol Biol** 1997 Jan;27(1):37–47
Structure and organization of the Bombyx mori sericin 1 gene and of the sericins 1 deduced from the sequence of the Ser 1B cDNA. Garel A, et al. **Insect Biochem Mol Biol** 1997 May;27(5):469–77
Insect storage proteins: gene families and receptors. Haunerland NH. **Insect Biochem Mol Biol** 1996 Sep-Oct; 26(8–9):755–65 (60 ref.)
Differential expression of the vitellogenin gene in the spruce terminal weevil feeding on resistant versus susceptible host trees. Leal I, et al. **Insect Biochem Mol Biol** 1997 Jun; 27(6):569–75
Structure and spatial expression of the Manduca sexta MSCP14.6 cuticle gene. Rebers JE, et al. **Insect Biochem Mol Biol** 1997 Mar;27(3):229–40
Bmmar1: a basal lineage of the mariner family of transposable elements in the silkworm moth, Bombyx mori. Robertson HM, et al. **Insect Biochem Mol Biol** 1996 Sep-Oct; 26(8–9):945–54
Transposition of the Hermes element in embryos of the vector mosquito, Aedes aegypti. Sarkar A, et al. **Insect Biochem Mol Biol** 1997 May;27(5):359–63
The mitochondrial genome of the mosquito Anopheles gambiae: DNA sequence, genome organization, and comparisons with mitochondrial sequences of other insects. Beard CB, et al. **Insect Mol Biol** 1993;2(2):103–24
Nucleotide sequence of an adult-specific cuticular protein gene from the beetle Tenebrio molitor: effects of 20-hydroxyecdysone on mRNA accumulation. Bouhin H, et al. **Insect Mol Biol** 1993;2(2):81–8
Polymerase chain reaction-based identification of insecticide resistance genes and DNA methylation in the aphid Myzus persicae (Sulzer). Field LM, et al. **Insect Mol Biol** 1996 Aug;5(3):197–202
Isolation, sequencing and characterization of two cDNA clones coding for trypsin-like enzymes from the midgut of Aedes aegypti. Kalhok SE, et al. **Insect Mol Biol** 1993; 2(2):71–9
Identification of insect cell lines by DNA amplification fingerprinting (DAF). McIntosh AH, et al. **Insect Mol Biol** 1996 Aug;5(3):187–95
Mobility of hAT transposable elements in the Old World bollworm, Helicoverpa armigera. Pinkerton AC, et al. **Insect Mol Biol** 1996 Nov;5(4):223–7
Inducible immune factors of the vector mosquito Anopheles gambiae: biochemical purification of a defensin antibacterial peptide and molecular cloning of preprodefensin cDNA. Richman AM, et al. **Insect Mol Biol** 1996 Aug;5(3):203–10
Different modes of hypervariability in (GATA)n simple sequence repeat loci. Rohwedel J, et al. **Insect Mol Biol** 1993;2(1):49–58
ALS and SAD-like nicotinic acetylcholine receptor subunit genes are widely distributed in insects. Sgard F, et al. **Insect Mol Biol** 1993;2(4):215–23
An amplified mosquito dihydrofolate reductase gene: amplicon size and chromosomal distribution. Shotkoski FA, et al. **Insect Mol Biol** 1993;2(3):155–61
Polymorphic cDNAs encode for the methionine-rich storage protein from Manduca sexta. Wang XY, et al. **Insect Mol Biol** 1993;2(1):13–20
Cloning and characterization of cDNAs preferentially expressed in the ovary of the mosquito, Anopheles gambiae. Zurita M, et al. **Insect Mol Biol** 1997 Feb;6(1):55–62
Molecular evolution of regulatory genes of development in Drosophila: the daughterless gene. Bouzada JA, et al. **Int J Dev Biol** 1996;Suppl 1:87S–88S
Regulation and function of the terminal gap gene huckebein in the Drosophila blastoderm. Brönner G, et al. **Int J Dev Biol** 1996 Feb;40(1):157–65 (57 ref.)
Molecular evolution of regulatory genes of development in Drosophila. The scute gene. Gandarela MR, et al. **Int J Dev Biol** 1996;Suppl 1:89S–90S
Drosophila differentiation genes instrumental in tumor suppression. Gateff E, et al. **Int J Dev Biol** 1996 Feb; 40(1):149–56 (61 ref.)
Mutation of a gene for a Drosophila kinesin-like protein, Klp38B, leads to failure of cytokinesis. Ohkura H, et al. **J Cell Sci** 1997 Apr;110 (Pt 8):945–54
A Drosophila Tpr protein homolog is localized both in the extrachromosomal channel network and to nuclear pore complexes. Zimowska G, et al. **J Cell Sci** 1997 Apr;110 (Pt 8):927–44
Mitochondrial DNA variation within and between two species of neotropical anopheline mosquitoes (Diptera:Culicidae). Conn JE, et al. **J Hered** 1997 Mar-Apr;88(2):98–107
Population genetic structure and colonization sequence of Drosophila subobscura in the Canaries and Madeira Atlantic Islands as inferred by autosomal, sex-linked and mtDNA traits. Pinto FM, et al. **J Hered** 1997 Mar-Apr; 88(2):108–14
Comparisons of genetic variability and genome structure among mosquito strains selected for refractoriness to a malaria parasite. Yan G, et al. **J Hered** 1997 May-Jun; 88(3):187–94
Muscle actin gene from Aedes aegypti (Diptera:Culicidae). Ibrahim MS, et al. **J Med Entomol** 1996 Nov;33(6):955–62
Segmented gene conversion as a mechanism of correction of 18S rRNA pseudogene located outside of rDNA cluster in D. melanogaster. Benevolenskaya EV, et al. **J Mol Evol** 1997 Jun;44(6):646–51
Duplication and divergence of the genes of the alpha-esterase cluster of Drosophila melanogaster. Robin C, et al. **J Mol Evol** 1996 Sep;43(3):241–52
Phylogenetic relationships and evolution of the Japanese Carabinae ground beetles based on mitochondrial ND5 gene sequences. Su ZH, et al. **J Mol Evol** 1996 Feb; 42(2):124–9
Heterogeneity of the glutathione transferase genes encoding enzymes responsible for insecticide degradation in the housefly. Syvanen M, et al. **J Mol Evol** 1996 Sep; 43(3):236–40
Genetic interactions among vestigial, hairy, and Notch suggest a role of vestigial in the differentiation of epidermal and neural cells of the wing and halter of Drosophila melanogaster. Abu-Issa R, et al. **J Neurogenet** 1996 Sep; 10(4):239–46
Genetic analysis of the lozenge gene complex in Drosophila melanogaster: adult visual system phenotypes. Batterham P, et al. **J Neurogenet** 1996 Sep;10(4):193–220
A congenital heart defect in Drosophila caused by an action-potential mutation. Dowse H, et al. **J Neurogenet** 1995 Dec;10(3):153–68
Distinct mechanisms of action of the Lozenge locus in Drosophila eye and antennal development are suggested by the analysis of dominant enhancers. Gupta BP, et al. **J Neurogenet** 1995 Dec;10(3):137–51
Temporally manipulated rescue of visual and courtship abnormalities caused by a nonA mutation in Drosophila. Rendahl KG, et al. **J Neurogenet** 1996 Sep;10(4):247–56
The Drosophila homeotic gene moira regulates expression of engrailed and HOM genes in imaginal tissues. Brizuela BJ, et al. **Mech Dev** 1997 Jul;65(1–2):209–20
Polychaetoid is required to restrict segregation of sensory organ precursors from proneural clusters in Drosophila. Chen CM, et al. **Mech Dev** 1996 Jul;57(2):215–27
The Drosophila bunched gene is a homologue of the growth factor stimulated mammalian TSC-22 sequence and is required during oogenesis. Dobens LL, et al. **Mech Dev** 1997 Jul;65(1–2):197–208
The Drosophila don juan (dj) gene encodes a novel sperm specific protein component characterized by an unusual domain of a repetitive amino acid motif. Santel A, et al. **Mech Dev** 1997 Jun;64(1–2):19–30
Differential accumulation of DPTP61F alternative transcripts: regulation of a protein tyrosine phosphatase by segmentation genes. Ursuliak Z, et al. **Mech Dev** 1997 Jul; 65(1–2):19–30
Positive selection and the molecular evolution of a gene of male reproduction, Acp26Aa of Drosophila. Tsaur SC, et al. **Mol Biol Evol** 1997 May;14(5):544–9
The Broad-Complex gene is a tissue-specific modulator of the ecdysone response of the Drosophila hsp23 gene. Dubrovsky EB, et al. **Mol Cell Biol** 1996 Nov; 16(11):6542–52
Molecular cloning of Drosophila mus308, a gene involved in DNA cross-link repair with homology to prokaryotic DNA polymerase I genes. Harris PV, et al. **Mol Cell Biol** 1996 Oct;16(10):5764–71
Linkage and evolutionary diversification of developmentally regulated multigene families: tandem arrays of the 401/18 chorion gene pair in silkmoths. Jones CW, et al. **Mol Cell Biol** 1981 Sep;1(9):814–28
The mosquito ultraspiracle homologue, a partner of ecdysteroid receptor heterodimer: cloning and characterization of isoforms expressed during vitellogenesis. Kapitskaya M, et al. **Mol Cell Endocrinol** 1996 Aug 9;121(2):119–32
Juvenile hormone regulation of an insect gene: a specific transcription factor and a DNA response element. Zhang J, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):15–20
Analysis of the structure and expression fo the TFIIB gene in Drosophila melanogaster. Lee KS, et al. **Mol Cells** 1997 Jun 30;7(3):374–9
A trans-acting modifier causing extensive overexpression of genes in Drosophila melanogaster. Bhadra U, et al. **Mol Gen Genet** 1997 May;254(6):621–34
Regulatory elements in the promoter of the vitelline membrane gene VM32E of Drosophila melanogaster direct gene expression in distinct domains of the follicular epithelium. Cavaliere V, et al. **Mol Gen Genet** 1997 Apr 16;254(3):231–7
Degenerative spermatocyte, a novel gene encoding a transmembrane protein required for the initiation of meiosis in Drosophila spermatogenesis. Endo K, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):157–65
The gene fl(2)d is needed for the sex-specific splicing of

transformer pre-mRNA but not for double-sex pre-mRNA in Drosophila melanogaster. Granadino B, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):26-31

Cloning and sequencing of the para-type sodium channel gene from susceptible and kdr-resistant German cockroaches (Blattella germanica) and house fly (Musca domestica). Miyazaki M, et al. **Mol Gen Genet** 1996 Aug 27;252(1-2):61-8

Inheritance patterns of new genetic markers and occurrence of spontaneous mosaicism in the monogenic blowfly Chrysomya rufifacies (Diptera:Calliphoridae). Ullerich FH. **Mol Gen Genet** 1996 Nov 27;253(1-2):232-41

Identification of mutations in the housefly para-type sodium channel gene associated with knockdown resistance (kdr) to pyrethroid insecticides. Williamson MS, et al. **Mol Gen Genet** 1996 Aug 27;252(1-2):51-60

The effectiveness of mitochondrial rRNA gene sequences for the reconstruction of the phylogeny of an insect order (Orthoptera). Flook PK, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):177-92

The histone deacetylase RPD3 counteracts genomic silencing in Drosophila and yeast. De Rubertis F, et al. **Nature** 1996 Dec 12;384(6609):589-91

Sex lethal controls dosage compensation in Drosophila by a non-splicing mechanism. Kelley RL, et al. **Nature** 1997 May 8;387(6629):195-9

Presenilin 1 interaction in the brain with a novel member of the Armadillo family. Zhou J, et al. **Neuroreport** 1997 Apr 14;8(6):1489-94

Genetic dissection of sexual orientation: behavioral, cellular, and molecular approaches in Drosophila melanogaster. Yamamoto D, et al. **Neurosci Res** 1996 Oct;26(2):95-107 (117 ref.)

FLP-mediated DNA mobilization to specific target sites in Drosophila chromosomes. Golic MM, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3665-71

Adjacent GATA and kappa B-like motifs regulate the expression of a Drosophila immune gene. Kadalayil L, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1233-9

Transcriptional expression of a putative tachykinin-like peptide receptor gene from stable fly. Guerrero FD. **Peptides** 1997;18(1):1-5

Identification of novel genes in Drosophila reveals the complex regulation of early gene activity in the mesoderm. Casal J, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10327-32

Neuronal type information encoded in the basic-helix-loop-helix domain of proneural genes. Chien CT, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13239-44

Rhythms of Drosophila period gene expression in culture. Emery IF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):4092-6

The cell surface metalloprotease/disintegrin Kuzbanian is required for axonal extension in Drosophila. Fambrough D, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13233-8

Organization of the Hox gene cluster in the grasshopper, Schistocerca gregaria. Ferrier DE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13024-9

Distinct mechanisms of splicing regulation in vivo by the Drosophila protein Sex-lethal. Granadino B, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7343-8

P element insertion-dependent gene activation in the Drosophila eye. Hay BA, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5195-200

A Drosophila homolog of the tumor suppressor gene adenomatous polyposis coli down-regulates beta-catenin but its zygotic expression is not essential for the regulation of Armadillo. Hayashi S, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):242-7

Acquisition and amplification of a testis-expressed autosomal gene, SSL, by the Drosophila Y chromosome. Kalmykova AI, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6297-302

The k43 gene, required for chorion gene amplification and diploid cell chromosome replication, encodes the Drosophila homolog of yeast origin recognition complex subunit 2. Landis G, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3888-92

An essential cell division gene of Drosophila, absent from Saccharomyces, encodes an unusual protein with tubulin-like and myosin-like peptide motifs. Miklos GL, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5189-94

Identification of genes required for Drosophila eye development using a phenotypic enhancer-trap. Pignoni F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):9220-5

Drosophila drop-dead mutations accelerate the time course of age-related markers. Rogina B, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6303-6

Mutations in the small subunit of the Drosophila U2AF splicing factor cause lethality and developmental defects. Rudner DZ, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10333-7

A screen for fast evolving genes from Drosophila. Schmid KJ, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2; 94(18):9746-50

Evolution of foraging behavior in Drosophila by density-dependent selection. Sokolowski MB, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7373-7

One gene in diamondback moth confers resistance to four Bacillus thuringiensis toxins. Tabashnik BE, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1640-4

Gypsy retrotransposon as a tool for the in vivo analysis of the regulatory region of the optomotor-blind gene in Drosophila. Tsai SF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3837-41

Three novel families of miniature inverted-repeat transposable elements are associated with genes of the yellow fever mosquito, Aedes aegypti. Tu Z. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7475-80

A Drosophila gene structurally and functionally homologous to the mammalian 70-kDa s6 kinase gene. Watson KL, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13694-8

Cooperative functions of the reaper and head involution defective genes in the programmed cell death of Drosophila central nervous system midline cells. Zhou L, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5131-6

Localization and mapping of the main gene responsible for fast development in Drosophila melanogaster. Corrêa SA, et al. **Rev Bras Biol** 1995 Dec;55 Suppl 1:89-96

Visualization of gene expression in living adult Drosophila. Calleja M, et al. **Science** 1996 Oct 11;274(5285):252-5

Predictive value of Drosophila [letter; comment] DeSalle Rob, et al. **Science** 1997 Mar 14;275(5306):1549-51. Comment on: Science 1996 Dec 13;274(5294):1836.

Natural behavior polymorphism due to a cGMP-dependent protein kinase of Drosophila [comment] Osborne KA, et al. **Science** 1997 Aug 8;277(5327):834-6. Comment on: Science 1997 Aug 8;277(5327):763-4.

What makes fruit flies roam? [news; comment] Pennisi E. **Science** 1997 Aug 8;277(5327):763-4. Comment on: Science 1997 Aug 8;277(5327):834-6.

Regulation of cell cycle synchronization by decapentaplegic during Drosophila eye development. Penton A, et al. **Science** 1997 Jan 10;275(5297):203-6

Fly sex drive traced to fru gene [news] [see comments] Roush W. **Science** 1996 Dec 13;274(5294):1836. Comment in: Science 1997 Mar 14;275(5306):1549-51.

Fly gene discovery gets at root of branching structures [news] Roush W. **Science** 1996 Dec 20;274(5295):2011

A "master control" gene for fly eyes shares its power [news] Roush W. **Science** 1997 Jan 31;275(5300):618-9

Quantitative trait loci for refractoriness of Anopheles gambiae to Plasmodium cynomolgi B. Zheng L, et al. **Science** 1997 Apr 18;276(5311):425-8

Toxins and genes isolated from scorpions of the genus Tityus. Becerril B, et al. **Toxicon** 1997 Jun;35(6):821-35 (81 ref.)

Files on steroids—Drosophila metamorphosis and the mechanisms of steroid hormone action. Thummel CS. **Trends Genet** 1996 Aug;12(8):306-10 (48 ref.)

[The role of chromatin complexes in regulation of gene expression during development] Calikowski TT. **Postepy Biochem** 1996;42(3):238-43 (63 ref.) **(Pol)**

[Mutation "outbursts" of various genes in natural populations of Drosophila melanogaster] Gershenzon SM. **Genetika** 1997 Apr;33(4):421-30 (86 ref.) (Eng. Abstr.) **(Rus)**

[Genetic control of the stress response of the system of juvenile hormone metabolism in Drosophila virilis] Grenbék LG, et al. **Genetika** 1997 Feb;33(2):202-4 (Eng. Abstr.) **(Rus)**

[The unstable system sn(49) in Drosophila melanogaster: results of blot-hybridization and polymerase chain reaction] Iurchenko NN, et al. **Genetika** 1996 May;32(5):614-20 (Eng. Abstr.) **(Rus)**

[Effect of the transposon at the singed locus on recombination in Drosophila melanogaster] Iurchenko NN, et al. **Genetika** 1997 Mar;33(3):333-8 (Eng. Abstr.) **(Rus)**

[Analysis of spontaneous and ethylmethanesulfonate-induced visible mutations in the genetically unstable MS, w strain of Drosophila melanogaster] Romanova NI, et al. **Genetika** 1996 Jun;32(6):759-66 (Eng. Abstr.) **(Rus)**

[Molecular cloning of regions of localization of the e(y)1 and e(y)2 genes in Drosophila melanogaster] Soldatov AV, et al. **Genetika** 1996 Dec;32(12):1714-6 (Eng. Abstr.) **(Rus)**

[A new method of cloning Drosophila melanogaster genes marked with a highly copies mobile genetic element] Soldatov AV, et al. **Genetika** 1996 Dec;32(12):1717-20 (Eng. Abstr.) **(Rus)**

[Selective expression of a mutation of the rad 201 radiosensitivity gene in Drosophila embryogenesis] Varentsova ER, et al. **Genetika** 1997 Feb;33(2):205-10 (Eng. Abstr.) **(Rus)**

[A prolonged maternal effect of the rad201 radiosensitivity gene in Drosophila] Varentsova ER, et al. **Genetika** 1997 Feb;33(2):211-6 (Eng. Abstr.) **(Rus)**

[Effect of genetic background on mutation frequency of insertional alleles of the lozenge in Drosophila melanogaster] Voloshina MA, et al. **Genetika** 1996 May; 32(5):641-8 (Eng. Abstr.) **(Rus)**

[The problem of true and false mutant spots of the mwh type in method of somatic mosaics of Drosophila melanogaster wing cells] Zakharenko LP, et al. **Genetika** 1996 Jun;32(6):755-8 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

The repair of UV-induced cyclobutane pyrimidine dimers in the individual genes Gart, Notch and white from isolated brain tissue of Drosophila melanogaster. van der Helm PJ, et al. **Mutat Res** 1997 Mar 12;383(2):113-24

GENETICS

Heterochromatin and gene expression in Drosophila. Weiler KS, et al. **Annu Rev Genet** 1995;29:577-605 (137 ref.)

Molecular evolution of the paired gene in Drosophila: cloning and characterization of the partial paired gene from Drosophila willistoni. Matsuo Y. **Biochem Genet** 1996 Dec; 34(11-12):415-20

Long PCR-based technique for detection of transposon insertions in and around cloned genes of Drosophila melanogaster. Gordadze AV, et al. **Biotechniques** 1996 Dec; 21(6):1062-6

Involvement of the Bombyx Scr gene in development of the embryonic silk gland. Kokubo H, et al. **Dev Biol** 1997 Jun 1;186(1):46-57

klumpfuss, a Drosophila gene encoding a member of the EGR family of transcription factors, is involved in bristle and leg development. Klein T, et al. **Development** 1997 Aug;124(16):3123-34

Cloning and upstream sequence of a juvenile hormone-regulated gene from the migratory locust. Zhang J, et al. **Gene** 1996 Oct 10;175(1-2):193-7

Genetical analysis of visual system disorganizer (vid), a new gene involved in normal development of eye and optic lobe of the brain in Drosophila melanogaster. Rachidi M, et al. **Genetica** 1997;99(1):31-45

Contrasting histories of three gene regions associated with In(3L)Payne of Drosophila melanogaster. Hasson E, et al. **Genetics** 1996 Dec;144(4):1565-75

Cloning and baculovirus expression of a desiccation stress gene from the beetle, Tenebrio molitor. Graham LA, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):127-33

PCR differential display of immune gene expression in Trichoplusia ni. Kang D, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):177-84

Ecdysone and insect immunity: the maturation of the inducibility of the diptericin gene in Drosophila larvae. Meister M, et al. **Insect Biochem Mol Biol** 1996 Feb; 26(2):155-60

Early trypsin, a female-specific midgut protease in Aedes aegypti: isolation, aminoterminal sequence determination, and cloning and sequencing of the gene. Noriega FG, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):119-26

Molecular cloning of an alpha-esterase gene cluster on chromosome 3r of Drosophila melanogaster. Russell RJ, et al. **Insect Biochem Mol Biol** 1996 Mar;26(3):235-47

Cloning and characterization of the white gene from Anopheles gambiae. Besansky NJ, et al. **Insect Mol Biol** 1995 Nov;4(4):217-31

PCR primers for the amplification of four insect mitochondrial gene fragments. Kambhampati S, et al. **Insect Mol Biol** 1995 Nov;4(4):233-6

Drosophila melanogaster mitochondrial DNA: completion of the nucleotide sequence and evolutionary comparisons. Lewis DL, et al. **Insect Mol Biol** 1995 Nov;4(4):263-78

Isolation and characterization of a retroelement from B chromosome (PSR) in the parasitic wasp Nasonia vitripennis. McAllister BF. **Insect Mol Biol** 1995 Nov; 4(4):253-62

Expression of a developmentally regulated gene, Mng10, in identified neurosecretory cells in the CNS of Manduca sexta. Mészáros M, et al. **J Neurobiol** 1996 Jul;30(3):349-58

Molecular cloning and characterization of a transcription factor for the copia retrotransposon with homology to the BTB-containing lola neurogenic factor. Cavarec L, et al. **Mol Cell Biol** 1997 Jan;17(1):482-94

Positional cloning of the Drosophila melanogaster mei-9 gene, the putative homolog of the Saccharomyces cerevisiae RAD1 gene. Araj H, et al. **Mutat Res** 1996 Dec 2;364(3):209-15

The mus206 gene of Drosophila melanogaster is required in the excision repair of alkylation-induced DNA lesions. Huang W, et al. **Mutat Res** 1997 Aug;384(2):81-8

Mutational analysis and genetic cloning of the agnostic locus, which regulates learning ability in Drosophila. Peresleni AI, et al. **Neurosci Behav Physiol** 1997 May-Jun; 27(3):258-63

Cooperative functions of the reaper and head involution defective genes in the programmed cell death of Drosophila central nervous system midline cells. Zhou L, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5131-6

[Disordered development of Drosophila melanogaster embryos mosaic for the Notch gene] Frolova IP, et al. **Ontogenez** 1997 Jul-Aug;28(4):301-5 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Genes expressed in neurons of adult male Drosophila. Amrein H, et al. **Cell** 1997 Feb 21;88(4):459-69

Chromatid segregation at anaphase requires the barren product, a novel chromosome-associated protein that interacts with Topoisomerase II. Bhat MA, et al. **Cell** 1996 Dec 13;87(6):1103-14

Control of male sexual behavior and sexual orientation in Drosophila by the fruitless gene. Ryner LC, et al. **Cell** 1996 Dec 13;87(6):1079-89

Genetic separation of the neural and cuticular patterning functions of gooseberry. Duman-Scheel M, et al. **Development** 1997 Aug;124(15):2855-65

Quantitative analysis of Drosophila period gene transcription in living animals. Plautz JD, et al. **J Biol Rhythms** 1997 Jun;12(3):204-17

The Drosophila gene alien is expressed in the muscle

attachment sites during embryogenesis and encodes a protein highly conserved between plants, Drosophila and vertebrates. Goubeaud A, et al. **Mech Dev** 1996 Jun; 57(1):59–68

Different repair of O6–methylguanine occurring in DNA modified by MMS in vivo or in vitro. Sledziewska–Gójska E, et al. **Mutat Res** 1997 Jan 31;383(1):31–7

On the function of proneural genes in Drosophila. Hinz U. **Perspect Dev Neurobiol** 1997;4(4):273–84 (98 ref.)

[Role of the Notch receptors in intercellular communication] Seugnet L, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):282–6 (43 ref.) (Eng. Abstr.) **(Fre)**

RADIATION EFFECTS

The repair of UV–induced cyclobutane pyrimidine dimers in the individual genes Gart, Notch and white from isolated brain tissue of Drosophila melanogaster. van der Helm PJ, et al. **Mutat Res** 1997 Mar 12;383(2):113–24

[Interaction of mutations of the genes for mutagen sensitivity mei–9, mei–41 and rad201 as affected by ionizing radiation] Varentsova ER, et al. **Genetika** 1997 Mar;33(3):328–32 (Eng. Abstr.) **(Rus)**

GENES, INTRACISTERNAL A–PARTICLE

Biochemical characterization of the reverse transcriptase of a human intracisternal A–type particle (HIAP). Hart DJ, et al. **AIDS Res Hum Retroviruses** 1996 Sep 20; 12(14):1367–72

Abnormal activation of cytokine gene expression by intracisternal type A particle transposition: effects of mutations that result in autocrine growth stimulation and malignant transformation. Wang XY, et al. **Cytokines Cell Mol Ther** 1997 Mar;3(1):3–19 (153 ref.)

Molecular basis of the pleiotropic phenotype of mice carrying the hypervariable yellow (Ahvy) mutation at the agouti locus. Argeson AC, et al. **Genetics** 1996 Feb;142(2):557–67

Reln(rl–Alb2), an allele of reeler isolated from a chlorambucil screen, is due to an IAP insertion with exon skipping. Royaux I, et al. **Genomics** 1997 Jun 15;42(3):479–82

Characterization of two age–induced intracisternal A–particle–related transcripts in the mouse liver. Transcriptional read–through into an open reading frame with similarities to the yeast ccr4 transcription factor. Puech A, et al. **J Biol Chem** 1997 Feb 28;272(9):5995–6003

UVB irradiation–induced transcription from the long terminal repeat of intracisternal A particles and UVB–induced secretion of an extracellular factor that induces transcription of the intracisternal A particles in unirradiated cells. Faure E, et al. **J Photochem Photobiol B** 1996 Oct;36(1):61–6

Identification of an RNA sequence within an intracisternal–A particle element able to replace Rev–mediated posttranscriptional regulation of human immunodeficiency virus type 1. Tabernero C, et al. **J Virol** 1997 Jan; 71(1):95–101

Plasma membrane targeting of chimeric intracisternal A–type particle polyproteins leads to particle release and specific activation of the viral proteinase. Welker R, et al. **J Virol** 1997 Jul;71(7):5209–17

Expression of intracisternal A–particle retrotransposons in primary tumors of oncogene–expressing transgenic mice. Dupressoir A, et al. **Oncogene** 1997 Jun 19;14(24):2951–8

Intracisternal A–type particles express their proteinase in a separate reading frame by translational frameshifting, similar to D–type retroviruses. Fehrmann F, et al. **Virology** 1997 Sep 1;235(2):352–9

GENETICS

The intracisternal A–particle proximal enhancer–binding protein activates transcription and is identical to the RNA– and DNA–binding protein p54nrb/NonO. Basu A, et al. **Mol Cell Biol** 1997 Feb;17(2):677–86

Inherited somatic mosaicism caused by an intracisternal A particle insertion in the mouse tyrosinase gene. Wu M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):890–4

RADIATION EFFECTS

Induction of transcription from the long terminal repeat of the intracysternal particles type A (IAP) by X–irradiation. Faure E, et al. **Arch Physiol Biochem** 1997 Apr;105(2):183–9

GENES, JUN

see related
ONCOGENE PROTEIN P65(GAG–JUN)
PROTO–ONCOGENE PROTEINS C–JUN

Induction of immediate early response genes by hypoxia. Possible molecular bases for systems adaptation to low pO2. Cherniack NS, et al. **Adv Exp Med Biol** 1996;410:127–34

Gene expression during ethanol withdrawal. Wilce P, et al. **Alcohol Alcohol Suppl** 1994;2:97–102

Melanotransferrin gene expression in melanoma cells is correlated with high levels of Jun/Fos family transcripts and with the presence of a specific AP1–dependent ternary complex. Rozé–Heusse A, et al. **Biochem J** 1996 Sep 15; 318 (Pt 3):883–8

Spontaneous circadian and light–induced expression of junB mRNA in the hamster suprachiasmatic nucleus. Guido ME, et al. **Brain Res** 1996 Sep 2;732(1–2):215–22

Differential expression of c–jun and c–myc in N–nitroso diethylamine–induced hepatic oncogenesis in AKR mice. Giri RK, et al. **Cancer Lett** 1996 Dec 3;109(1–2):121–7

C–Jun and JunD suppress maturation of chondrocytes. Kameda T, et al. **Cell Growth Differ** 1997 May;8(5):495–503

Proximal promoter region of the junB gene mediates attenuation of serum inducibility in Src–transformed cells. Yu CL, et al. **Cell Growth Differ** 1995 Dec;6(12):1513–21

Impaired induction of c–fos/c–jun genes and of transcriptional regulatory proteins binding distinct c–fos/c–jun promoter elements in activated human T cells during aging. Whisler RL, et al. **Cell Immunol** 1997 Jan 10;175(1):41–50

Temporal and cell–type specific expression of c–fos and c–jun protooncogenes in the mouse uterus after estrogen stimulation. Yamashita S, et al. **Endocrinology** 1996 Dec; 137(12):5468–75

Regulation of c–jun gene expression in endothelial cells by the protein kinase inhibitor staurosporine. Bandyopadhyay RS, et al. **Endothelium** 1997;5(2):95–105

Role of c–Jun and proximal phorbol 12–myristate–13–acetate–(PMA)–responsive elements in the regulation of basal and PMA–stimulated plasminogen–activator inhibitor–1 gene expression in HepG2. Arts J, et al. **Eur J Biochem** 1996 Oct 15; 241(2):393–402

Pituitary adenylate–cyclase–activating polypeptide stimulates proto–oncogene expression and activates the AP–1 (c–Fos/c–Jun) transcription factor in AR4–2J pancreatic carcinoma cells. Schäfer H, et al. **Eur J Biochem** 1996 Dec 15;242(3):467–76

NMDA receptor overstimulation triggers a prolonged wave of immediate early gene expression: relationship to excitotoxicity. Shan Y, et al. **Exp Neurol** 1997 Apr; 144(2):406–15

Potential roles of gene expression change in adult rat spinal motoneurons following axonal injury: a comparison among c–jun, off–affinity nerve growth factor receptor (LNGFR), and nitric oxide synthase (NOS). Wu W. **Exp Neurol** 1996 Oct;141(2):190–200

The induction of c–fos and c–jun in the stretched latissimus dorsi muscle of the rabbit: responses to duration, degree and re–application of the stretch stimulus. Dawes NJ, et al. **Exp Physiol** 1996 May;81(3):329–39

Phospholipase D activation in hepatocyte growth factor–stimulated rat hepatocytes mediates the expressions of c–jun and c–fos: involvement of protein tyrosine kinase, protein kinase C, and Ca2+. Adachi T, et al. **Hepatology** 1996 Nov;24(5):1274–81

Signaling from G protein–coupled receptors to the c–jun promoter involves the MEF2 transcription factor. Evidence for a novel c–jun amino–terminal kinase–independent pathway. Coso OA, et al. **J Biol Chem** 1997 Aug 15;272(33):20691–7

Differential expression of c–jun and junD in end–stage human cardiomyopathy. Pollack PS, et al. **J Cell Biochem** 1997 May;65(2):245–53

Induction in human osteoblastic cells (SaOS2) of the early response genes fos, jun, and myc by the amino terminal fragment (ATF) of urokinase. Rabbani SA, et al. **J Cell Physiol** 1997 Aug;172(2):137–45

Suppression of UVB–induced c–fos and c–jun expression in human keratinocytes by N–acetylcysteine. Garmyn M, et al. **J Photochem Photobiol B** 1997 Jan;37(1–2):125–30

v–Rel activates the proto–oncogene c–Jun promoter: a correlation with its transforming activity. Fujii M, et al. **Leukemia** 1997 Apr;11 Suppl 3:402–4

Identification of differentially expressed genes in chemically induced skin tumors. Rutberg SE, et al. **Mol Carcinog** 1997 Sep;20(1):88–98

CRF stimulates expression of multiple fos and jun related genes in the AtT–20 corticotroph cell. Autelitano DJ, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):25–35

Erratum to "Molecular cloning of c–jun and c–fox cDNAs from porcine anterior pituitary and their involvement in gonadotropin–releasing hormone stimulation" [Mol. Cell. Endocrinol. 119 (1996) 77] Chung HO, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):113–4

Role of c–jun induction in the glucocorticoid–evoked apoptotic pathway in human leukemic lymphoblasts. Zhou F, et al. **Mol Endocrinol** 1996 Mar;10(3):306–16

Proto–oncogenes c–jun and c–fos are down–regulated in human endometrium during pregnancy: relationship to oestrogen receptor status. Salmi A, et al. **Mol Hum Reprod** 1996 Dec;2(12):979–84

Induction of members of the Fos/Jun family of immediate–early genes in identified hypothalamic neurons: in vivo evidence for differential regulation. Luckman SM, et al. **Neuroscience** 1996 Jul;73(2):473–85

Increased expression of c–fos, c–jun and LRF–1 is not required for in vivo priming of hepatocytes by the mitogen TCPOBOP. Columbano A, et al. **Oncogene** 1997 Feb 20; 14(7):857–63

Involvement of c–JUN in the regulation of terminal differentiation genes in normal and malignant keratinocytes. Lohman FP, et al. **Oncogene** 1997 Apr 3;14(13):1623–7

DRUG EFFECTS

Systemic administration of an anabolic dose of prostaglandin E2 induces early–response genes in rat bones. Weinreb M, et al. **Bone** 1997 Apr;20(4):347–53

FOS and JUN as markers for ethanol–sensitive pathways in the rat brain. Davidson M, et al. **Brain Res Bull** 1996; 39(3):177–84

Regulation of c–fos and c–jun expression by calcitonin in human breast cancer cells. Lacroix M, et al. **Calcif Tissue Int** 1997 Jun;60(6):513–9

H–ras transfection of the rat kidney cell line NRK–52E results in increased induction of c–fos, c–jun and hsp70 following sulofenur treatment. Gu H, et al. **Cancer Lett** 1996 Sep 10;106(2):199–205

Induction of c–jun protooncogene expression by hydrogen peroxide through hydroxyl radical generation and p60SRC tyrosine kinase activation. Lee SF, et al. **Free Radic Biol Med** 1996;21(4):437–48

Methylazoxymethanol acetate–induced apoptosis in the external granule cell layer of the developing cerebellum of the rat is associated with strong c–Jun expression and formation of high molecular weight c–Jun complexes. Ferrer I, et al. **J Neuropathol Exp Neurol** 1997 Jan;56(1):1–9

Inhibition of protein kinase C and proto–oncogene expression by crocetin in NIH/3T3 cells. Wang CJ, et al. **Mol Carcinog** 1996 Dec;17(4):235–40

Ethanol exposure increases expression of c–jun and junD in human neuroblastoma cells. Ding WQ, et al. **Neuroreport** 1996 Sep 2;7(13):2191–5

Induction of apoptotic DNA fragmentation and c–jun downregulation in human myeloid leukemia cells by the permeant Ca2+ chelator BAPTA/AM. Grant S, et al. **Oncol Res** 1995;7(7–8):381–92

Occupancy and composition of proteins bound to the AP–1 sites in the glucocorticoid receptor and c–jun promoters after glucocorticoid treatment and in different cell types. Barrett TJ, et al. **Recept Signal Transduct** 1996; 6(3–4):179–93

Acetaminophen–induced hepatotoxicity is associated with early changes in AP–1 DNA binding activity. Blazka ME, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun; 92(3):259–73

Dermatotoxic chemical stimulate of c–jun and c–fos transcription and AP–1 DNA binding in human keratinocytes. Burleson FG, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):131–48

Dioxin induces transcription of fos and jun genes by Ah receptor–dependent and –independent pathways. Hoffer A, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):238–47

GENETICS

Differential expression of fos and jun family members during murine postnatal intestinal development. Blais S, et al. **Biol Neonate** 1996;69(5):342–9

Codeletion of the JUN proto–oncogene and the CDKN2A tumor–suppressor gene in HRAS–transformed rat embryo fibroblast cell lines. Zhou JN, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):82–9

Expression pattern of c–sis, c–fos and c–jun in human placenta and embryofetal organs. Rossi D, et al. **Gynecol Obstet Invest** 1996;42(1):1–7

Lipotrope–mediated c–jun and ornithine decarboxylase mRNA expression in mammary acinar cells [letter] Moon YS, et al. **In Vitro Cell Dev Biol Anim** 1996 Jun;32(6):313–4

Selective expression of the immediate early gene c–jun in axotomized rat medial septal neurons is not related to neuronal degeneration. Haas CA, et al. **J Neurosci** 1996 Mar 1;16(5):1894–903

Phorbol ester inhibition of rat gonadotropin–releasing hormone promoter activity: role of Fos and Jun in the repression of transcription. Bruder JM, et al. **Mol Endocrinol** 1996 Jan;10(1):35–44

Expression of the protooncogene jun is induced in the rat pancreas by cerulein infusion. Ferrara C, et al. **Pancreas** 1997 Aug;15(2):160–7

Expression of c–fos and c–jun proto–oncogenes by ovine preimplantation embryos. Wu B. **Zygote** 1996 Aug; 4(3):211–7

PHYSIOLOGY

Polyamines modulate transcription but not posttranscription of c–myc and c–jun in IEC–6 cells. Patel AR, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C1020–9

Ras inhibits Jun–activated human atrial natriuretic peptide gene transcription in cultured ventricular myocytes. Kovacic–Milivojevic B, et al. **Circ Res** 1997 Apr; 80(4):580–8

c–Jun inhibits NF–E2 transcriptional activity in association with p18/maf in Friend erythroleukemia cells. Francastel C, et al. **Oncogene** 1997 Feb 20;14(7):873–7

[Role of c–jun in the inhibition of apoptosis through the erythropoietin receptor] Shimizu R, et al. **Rinsho Ketsueki** 1996 Jul;37(7):526–30 (5 ref.) **(Jpn)**

RADIATION EFFECTS

Effects of ionizing irradiation and beta–adrenergic stimulation on gene expression pattern in rat submandibular glands. Nagler RM, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):2749–56

Exposure of nerve growth factor–treated PC12 rat pheochromocytoma cells to a modulated radiofrequency field at 836.55 MHz: effects on c–jun and c–fos expression. Ivaschuk OI, et al. **Bioelectromagnetics** 1997;18(3):223–9

Prolonged c–jun expression in irradiated ataxia telangiectasia fibroblasts. Hallahan DE, et al.

Int J Radiat Oncol Biol Phys 1996 Sep 1;36(2):355–60

GENES, LETHAL

Harlequin ichthyosis (ichq): a juvenile lethal mouse mutation with ichthyosiform dermatitis. Sundberg JP, et al. **Am J Pathol** 1997 Jul;151(1):293–310

A transgene insertion at perinatal lethality (ple) is associated with abnormalities of the cortex. Beier DR, et al. **Brain Res** 1996 Jul 15;727(1–2):196–204

The CBFbeta subunit is essential for CBFalpha2 (AML1) function in vivo. Wang Q, et al. **Cell** 1996 Nov 15; 87(4):697–708

Post-natal lethality and neurological and gastrointestinal defects in mice with targeted disruption of the A-Raf protein kinase gene. Pritchard CA, et al. **Curr Biol** 1996 May 1;6(5):614–7

Differential expression of C-protein isoforms in the developing heart of normal and cardiac lethal mutant axolotls (Ambystoma mexicanum). Ward SM, et al. **Dev Dyn** 1996 Feb;205(2):93–103

Paternal transmission of the mouse Thp mutation is lethal in some genetic backgrounds. Rogers I, et al. **Dev Genet** 1997;20(1):23–8

Dilute down lethal: a new lethal mutation in Japanese quail. Tsudzuki M, et al. **Exp Anim** 1997 Jan;46(1):93–4

Characterization of dominant lethal mutations in the yeast plasma membrane H+-ATPase gene. Portillo F. **FEBS Lett** 1997 Feb 3;402(2–3):136–40

Anemia and perinatal death result from loss of the murine ecotropic retrovirus receptor mCAT-1. Perkins CP, et al. **Genes Dev** 1997 Apr 1;11(7):914–25

The effect of cryopreservation on the lethal mutation rate in Drosophila melanogaster. Houle D, et al. **Genet Res** 1997 Jun;69(3):209–13

Clusters of identical new mutation in the evolutionary landscape. Woodruff RC, et al. **Genetica** 1996 Oct; 98(2):149–60

Impact of migration and fitness on the stability of lethal t-haplotype polymorphism in Mus musculus: a computer study. Durand D, et al. **Genetics** 1997 Apr;145(4):1093–108 (38 ref.)

rdgE: a novel retinal degeneration mutation in Drosophila melanogaster. Zars T, et al. **Genetics** 1996 Sep; 144(1):127–38

A female sterile embryonic lethal in the maternally haplo-insufficient 21 B8.C1–21 C8.D1 genomic region of Drosophila melanogaster. Chandrashekaran S. **Hereditas** 1995;123(2):121–6

Lethal mutations and genomic instability. Mothersill C, et al. **Int J Radiat Biol** 1997 Jun;71(6):751–8 (57 ref.)

Molecular cloning and expression of the spsB gene encoding an essential type I signal peptidase from Staphylococcus aureus. Cregg KM, et al. **J Bacteriol** 1996 Oct; 178(19):5712–8

Isolation, purification, and in vitro characterization of recessive-lethal-mutant RNA polymerases from Escherichia coli. Tavormina PL, et al. **J Bacteriol** 1996 Sep;178(17):5263–71

Bovine hereditary zinc deficiency: lethal trait A 46. Machen M, et al. **J Vet Diagn Invest** 1996 Apr;8(2):219–27

Absence of ET(B)-mediated contraction in Piebald-lethal mice. Giller T, et al. **Life Sci** 1997;61(3):255–63

Confirmation of maternal transmission ratio distortion at Om and direct evidence that the maternal and paternal "DDK syndrome" genes are linked. Pardo-Manuel de Villena F, et al. **Mamm Genome** 1997 Sep;8(9):642–6

Thioredoxin is essential for Rhodobacter sphaeroides growth by aerobic and anaerobic respiration. Pasternak C, et al. **Microbiology** 1997 Jan;143 (Pt 1):83–91

Measuring the toxic effects of high gene dosage on yeast cells. Daniel J. **Mol Gen Genet** 1996 Dec 13;253(3):393–6

Dominant lethal mutations, heritable translocations, and unscheduled DNA synthesis induced in male mouse germ cells by glycidamide, a metabolite of acrylamide. Generoso WM, et al. **Mutat Res** 1996 Dec 20;371(3–4):175–83

Mapping of a major genetic modifier of embryonic lethality in TGF beta 1 knockout mice. Bonyadi M, et al. **Nat Genet** 1997 Feb;15(2):207–11

Deletion of p21 cannot substitute for p53 loss in rescue of mdm2 null lethality [letter] Montes de Oca Luna R, et al. **Nat Genet** 1997 Aug;16(4):336–7

The dilute-lethal (dl) gene attacks a Ca2+ store in the dendritic spine of Purkinje cells in mice. Takagishi Y, et al. **Neurosci Lett** 1996 Sep 13;215(3):169–72

A phosphonate monoester hydrolase from Burkholderia caryophilli PG2982 is useful as a conditional lethal gene in plants. Dotson SB, et al. **Plant J** 1996 Aug;10(2):383–92

A complement of ten essential and pleiotropic arabidopsis COP/DET/FUS genes is necessary for repression of photomorphogenesis in darkness. Kwok SF, et al. **Plant Physiol** 1996 Mar;110(3):731–42

Structure and mode of action of kikA, a genetic region lethal to Klebsiella oxytoca and associated with conjugative antibiotic-resistance plasmids of the IncN group. Holčík M, et al. **Plasmid** 1996 May;35(3):189–203

Early embryonic lethality caused by targeted disruption of the mouse selenocysteine tRNA gene (Trsp). Bösl MR, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5531–4

Rescue of cardiac alpha-actin-deficient mice by enteric smooth muscle gamma-actin. Kumar A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4406–11

An essential cell division gene of Drosophila, absent from Saccharomyces, encodes an unusual protein with tubulin-like and myosin-like peptide motifs. Miklos GL, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5189–94

Mutations in the small subunit of the Drosophila U2AF splicing factor cause lethality and developmental defects. Rudner DZ, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10333–7

A new approach for containment of microorganisms: dual control of streptavidin expression by antisense RNA and the T7 transcription system. Szafranski P, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1059–63

The redox/DNA repair protein, Ref-1, is essential for early embryonic development in mice. Xanthoudakis S, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8919–23

Targeted disruption of the MKK4 gene causes embryonic death, inhibition of c-Jun NH2-terminal kinase activation, and defects in AP-1 transcriptional activity. Yang D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3004–9

Identification of ACT4, a novel essential actin-related gene in the yeast Saccharomyces cerevisiae. Huang ME, et al. **Yeast** 1996 Jul;12(9):839–48

Characterization of the Saccharomyces cerevisiae cdc42-1ts allele and new temperature-conditional-lethal cdc42 alleles. Miller PJ, et al. **Yeast** 1997 May;13(6):561–72

[Mutagenic effect of nitrosodimethylurea in male mice. Induction of dominant lethal mutations and chromosome aberrations in germ cells; genotype influence on the clastogenic effect in bone marrow cells] Malashenko AM, et al. **Genetika** 1997 Apr;33(4):524–31 (Eng. Abstr.) **(Rus)**

[Lethal allele of the Spotted (gray spots) gene in swine] Nikitin SV, et al. **Genetika** 1996 Aug;32(8):1119–24 (Eng. Abstr.) **(Rus)**

GENETICS

A bacteriophage T3 promoter can be linked to a lethal gene without detectable toxicity for eukaryotic cells. Interest for inducible transgenes. Amouyal M. **C R Acad Sci III** 1996 Dec;319(12):1079–85

A collaborative approach to the diagnosis of a lethal short limb skeletal dysplasia. Carvalho L, et al. **Genet Couns** 1997; 8(2):139–43

A postimplantation lethal mutation induced by transgene insertion on mouse chromosome 8. Pravtcheva DD, et al. **Genomics** 1995 Dec 10;30(3):529–44

[The role of plasmid gef-like genes in eliminating from bacterial populations the specimens that have lost these plasmids] Lishchenko NN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan-Feb;(1):90–4 (24 ref.) **(Rus)**

PHYSIOLOGY

Rectovesical fistula: a possible cause of postnatal lethality in F1 Dh/+ male mice between DDD female and DH (Dh/+) male. Suto J, et al. **Exp Anim** 1996 Oct; 45(4):399–402

GENES, MATING TYPE see **GENES, FUNGAL**

GENES, MCC

see related
GENES, DCC

[Characterization of the MCC gene product] Matsumine A. **Nippon Rinsho** 1996 Apr;54(4):981–5 (15 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

Infrequent alterations of the APC and MCC genes in gastric cancers from British patients. Sud R, et al. **Br J Cancer** 1996 Oct;74(7):1104–8

Loss of heterozygosity of APC and MCC genes in oral squamous cell carcinomas in Taiwan. Huang JS, et al. **J Oral Pathol Med** 1997 Aug;26(7):322–6

[Relation between loss of heterozygosity at APC and MCC genetic loci and biological behaviour of gastric carcinoma] Liu B, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan; 18(1):3–5 (Eng. Abstr.) **(Chi)**

GENES, MDR

see related
DRUG RESISTANCE, MULTIPLE

Abnormal expression of a 170-kilodalton P-glycoprotein encoded by MDR1 gene, a metabolically active efflux pump, in CD4+ and CD8+ T cells from patients with human immunodeficiency virus type 1 infection. Andreana A, et al. **AIDS Res Hum Retroviruses** 1996 Oct 10; 12(15):1457–62

Increased mRNA levels of ERG16, CDR, and MDR1 correlate with increases in azole resistance in Candida albicans isolates from a patient infected with human immunodeficiency virus. White TC. **Antimicrob Agents Chemother** 1997 Jul;41(7):1482–7

Characterization of the 5'-flanking region of the EhPgp1 gene of multidrug resistance in Entamoeba histolytica. Gómez MC, et al. **Arch Med Res** 1997;28 Spec No:62–3

Characterization of 5'-flanking sequence of the EhPgp5 gene of multidrug resistance in Entamoeba histolytica. Guillermo Pérez D, et al. **Arch Med Res** 1997;28 Spec No:64–5

Multidrug resistance gene expression in rodents and rodent hepatocytes treated with mitoxantrone. Schrenk D, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1453–60

High-dose multidrug resistance in primary human hematopoietic progenitor cells transduced with optimized retroviral vectors. Eckert HG, et al. **Blood** 1996 Nov 1; 88(9):3407–15

Is the expression of multidrug resistance gene product a prognostic indicator for the clinical outcome of patients with renal cancer? Hofmockel G, et al. **Br J Urol** 1997 Jul;80(1):11–7

Expression of the MDR1 gene product P-glycoprotein in childhood neuroblastoma. Dhooge CR, et al. **Cancer** 1997 Oct 1;80(7):1250–7

The use of chemotherapy resistance in cancer treatment. Deisseroth AB, et al. **Cancer J Sci Am** 1997 Mar-Apr; 3(2):60–9 (50 ref.)

Involvement of heat shock factor in regulating transcriptional activation of MDR1 gene in multidrug-resistant cells. Kim SH, et al. **Cancer Lett** 1997 May 1;115(1):9–14

Analysis of expression of cMOAT (MRP2), MRP3, MRP4, and MRP5, homologues of the multidrug resistance-associated protein gene (MRP1), in human cancer cell lines. Kool M, et al. **Cancer Res** 1997 Aug 15; 57(16):3537–47

A novel cis-acting element is involved in the promoter activity of the rat mdr1b gene. Zhou G, et al. **Cell Growth Differ** 1996 Oct;7(10):1369–81

The amplification and expression of MDR1 gene in adriamycine resistant cell line of colon cancer cell HR8348. Zhou Z, et al. **Chin Med Sci J** 1996 Mar;11(1):17–20

Multidrug resistance: molecular and clinical aspects. Dicato M, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):91–9 (89 ref.)

Up-regulation of P-glycoprotein expression in rat liver cells by acute doxorubicin treatment. Fardel O, et al. **Eur J Biochem** 1997 May 15;246(1):186–92

Rapid recovery of a functional MDR phenotype caused by MRP after a transient exposure to MDR drugs in a revertant human lung cancer cell line. Gonzalez Manzano R, et al. **Eur J Cancer** 1996 Nov;32A(12):2136–41

Glutathione S-transferase and multidrug-resistant phenotype in transitional cell carcinoma of the bladder. Akdaş A, et al. **Eur Urol** 1996;29(4):483–6

Employment of the mdr1 promoter for the chemotherapy-inducible expression of therapeutic genes in cancer gene therapy. Walther W, et al. **Gene Ther** 1997 Jun;4(6):544–52

Transduction and expression of the MDR gene in CD34+ cells from marrow and peripheral blood. Hesdorffer C, et al. **Hematol Cell Ther** 1996 Apr;38(2):210

In vitro and in vivo liposome-mediated gene transfer leads to human MDR1 expression in mouse bone marrow progenitor cells. Aksentijevich I, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1111–22

Expression of the human multidrug resistance and glucocerebrosidase cDNAs from adeno-associated vectors: efficient promoter activity of AAV sequences and in vivo delivery via liposomes. Baudard M, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1309–22

Bromocriptine transcriptionally activates the multidrug resistance gene (pgp2/mdr1b) by a novel pathway. Furuya KN, et al. **J Biol Chem** 1997 Apr 25;272(17):11518–25

MDR1 expression correlates with mutant p53 expression in colorectal cancer metastases. de Kant E, et al. **J Cancer Res Clin Oncol** 1996;122(11):671–5

Gene rearrangement: a novel mechanism for MDR-1 gene activation. Mickley LA, et al. **J Clin Invest** 1997 Apr 15; 99(8):1947–57

The role of bile salt composition in liver pathology of mdr2 (-/-) mice: differences between males and females. van Nieuwerk CM, et al. **J Hepatol** 1997 Jan;26(1):138–45

Uncoupling of biliary phospholipid and cholesterol secretion in mice with reduced expression of mdr2 P-glycoprotein. Oude Elferink RP, et al. **J Lipid Res** 1996 May; 37(5):1065–75

P-glycoprotein expression in cartilaginous tumors. Rosier RN, et al. **J Surg Oncol** 1997 Jun;65(2):95–105

The multidrug resistance-associated protein gene confers drug resistance in human gastric and colon cancers. Tomonaga M, et al. **Jpn J Cancer Res** 1996 Dec; 87(12):1263–70

Selection of transfected cells and coamplification of transfected genes. Kane SE. **Methods Mol Biol** 1997; 62:359–67

Expression of the cystic fibrosis (CF) and multidrug resistance (MDR1) genes during development and differentiation in the human placenta. Mylona P, et al. **Mol Hum Reprod** 1996 Sep;2(9):693–8

Differential changes in genome structure and expression of the mdr gene family in multidrug-resistant murine erythroleukemia cell lines. Fracasso PM, et al. **Oncol Res** 1997;9(4):183–91

The resistance and integrase genes of pACM1, a conjugative multiple-resistance plasmid, from Klebsiella oxytoca. Preston KE, et al. **Plasmid** 1997;37(2):105–18

Multidrug resistance mediated by a bacterial homolog of the human multidrug transporter MDR1. van Veen HW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10668–72

60-Hz electric fields inhibit protein kinase C activity and multidrug resistance gene (MDR1) up-regulation. Walter RJ, et al. **Radiat Res** 1997 Mar;147(3):369–75

In vivo drug-selectable genes: a new concept in gene therapy. Licht T, et al. **Stem Cells** 1997;15(2):104–11 (85 ref.)
Expression of MDR1/p-glycoprotein and multidrug resistance-associated protein in childhood solid tumours. Oda Y, et al. **Virchows Arch** 1997 Feb;430(2):99–105
Chemosensitizing effect of verapamil on Swiss-3T3 cells transfected with human MDR1 gene. Wang N, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):346–51
[Progresses in hematology in China, 1996] Chen Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):888–9 (0 ref.) **(Chi)**
[Mechanisms of resistance to melphalan in leukemia cell line and reversal by interferon alpha] Qian Q, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):485–9 (Eng. Abstr.) **(Chi)**
[Advances in the research on multidrug resistance genes] Gao Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun; 25(3):185–7 (12 ref.) **(Chi)**
[Molecular mechanism of the stress induction of MDR1 gene] Kohno K. **Nippon Rinsho** 1997 May;55(5):1054–8 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Tissue distribution of the multidrug-resistance gene product P-glycoprotein and its physiological function] Tsuji A, et al. **Nippon Rinsho** 1997 May;55(5):1059–63 (22 ref.) (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Resistance of mammalian tumor cells to inhibitors of DNA topoisomerase II. Beck WT, et al. **Adv Pharmacol** 1994; 29B:145–69 (120 ref.)
Design of topoisomerase inhibitors to overcome MDR1-mediated drug resistance. Chen AY, et al. **Adv Pharmacol** 1994;29B:245–56 (30 ref.)
In vitro detection of the MDR phenotype in rat myocardium: use of PCR, [3H]daunomycin and MDR reversing agents. Cayre A, et al. **Anticancer Drugs** 1996 Nov;7(8):833–7
Effects of modulators of multidrug resistance on the expression of the MDR1 gene on human KB cells in culture. Hu YP, et al. **Anticancer Drugs** 1996 Sep; 7(7):738–44
Assessment of drug-induced dysregulations among seven resistance-associated genes in human tumour cell lines. Van Hille B, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3531–6
Modulation of mdr1 expression by cytokines in human colon carcinoma cells: an approach for reversal of multidrug resistance. Stein U, et al. **Br J Cancer** 1996 Nov; 74(9):1384–91
Inhibition of cytarabine-induced MDR1 (P-glycoprotein) gene activation in human tumor cells by fatty acid–polyethylene glycol–fatty acid diesters, novel inhibitors of P-glycoprotein function. Komarov PG, et al. **Int J Cancer** 1996 Oct 9;68(2):245–50
Anaplasia and drug selection-independent overexpression of the multidrug resistance gene, MDR1, in Wilms' tumor. Re GG, et al. **Mod Pathol** 1997 Feb;10(2):129–36
Down-regulation of the mdr gene by thyroid hormone during Xenopus laevis development. Zucker SN, et al. **Mol Cell Endocrinol** 1997 Apr 25;129(1):73–81
Interaction of structurally diverse pesticides with the human MDR1 gene product P-glycoprotein. Bain LJ, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):288–98

GENETICS

Multidrug-resistant gene expression in small-cell lung cancer. Savaraj N, et al. **Am J Clin Oncol** 1997 Aug; 20(4):398–403
Multidrug resistance gene expression in acute myeloid leukemia: major prognosis significance for in vivo drug resistance to induction treatment. Hunault M, et al. **Ann Hematol** 1997 Feb;74(2):65–71
In vitro detection of the MDR phenotype in rat myocardium: use of PCR, [3H]daunomycin and MDR reversing agents. Cayre A, et al. **Anticancer Drugs** 1996 Nov;7(8):833–7
P-glycoprotein-mediated acquired multidrug resistance of human lung cancer cells in vivo. Abe Y, et al. **Br J Cancer** 1996 Dec;74(12):1929–34
Co-ordinate loss of protein kinase C and multidrug resistance gene expression in revertant MCF-7/Adr breast carcinoma cells. Budworth J, et al. **Br J Cancer** 1997;75(9):1330–5
Resistance to the new anti-cancer phospholipid ilmofosine (BM 41 440). Hofmann J, et al. **Br J Cancer** 1997; 76(7):862–9
Quantitative analysis of multidrug resistance gene expression in human osteosarcomas. Lee PD, et al. **Br J Cancer** 1996 Oct;74(7):1046–50
Localization of sequences that influence basal and cell type-specific activity of the murine mdr2 promoter. Yang CP, et al. **Cell Growth Differ** 1996 Sep;7(9):1227–37
Homologues of the human multidrug resistance genes MRP and MDR contribute to heavy metal resistance in the soil nematode Caenorhabditis elegans. Broeks A, et al. **EMBO J** 1996 Nov 15;15(22):6132–43
Frequency analysis of multidrug resistance-1 gene transfer into human primitive hematopoietic progenitor cells using the cobblestone area-forming cell assay and detection of vector-mediated P-glycoprotein expression by rhodamine-123. Fruehauf S, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1219–31
Co-ordinate regulation of the cystic fibrosis and multidrug resistance genes in cystic fibrosis knockout mice. Trezise AE, et al. **Hum Mol Genet** 1997 Apr;6(4):527–37
Enhanced expression of gamma-glutamylcysteine synthetase and glutathione S-transferase genes in cisplatin-resistant bladder cancer cells with multidrug resistance phenotype. Kotoh S, et al. **J Urol** 1997 Mar;157(3):1054–8
Multidrug resistance gene expression in childhood medulloblastoma: correlation with clinical outcome and DNA ploidy in 29 patients. Chou PM, et al. **Pediatr Neurosurg** 1995;23(6):283–91; discussion 291–2
Ependymomas in children express the multidrug resistance gene: immunohistochemical and molecular biologic study. Chou PM, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug; 16(4):551–61
Identification of a chromosomal Shigella flexneri multi-antibiotic resistance locus which shares sequence and organizational similarity with the resistance region of the plasmid NR1. Rajakumar K, et al. **Plasmid** 1997; 37(3):159–68

PHYSIOLOGY

The role of multidrug resistance-associated protein (MRP) expression in multidrug resistance. Kavallaris M. **Anticancer Drugs** 1997 Jan;8(1):17–25 (93 ref.)
The clinical role of MDR1 gene expression in human lung cancer. Oka M, et al. **Anticancer Res** 1997 Jan–Feb; 17(1B):721–4
Relationship between MDR1 gene and surface markers in acute myeloid leukemia. Zöchbauer S, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):749–52
Multidrug resistance in androgen-independent growing rat prostate carcinoma cells is mediated by P-glycoprotein. Siegsmund MJ, et al. **Urol Res** 1997;25(1):35–41

GENES, MHC CLASS I

Further observations on the role of the MHC genes and certain hearing disorders. Bernstein JM, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):666–71
Searching for the ulcerative colitis genes [editorial; comment] Bevins CL, et al. **Am J Gastroenterol** 1997 May;92(5):733–4 . Comment on: Am J Gastroenterol 1997 May;92(5):772–6.
Haplotype analysis of hemochromatosis: evaluation of different linkage-disequilibrium approaches and evolution of disease chromosomes. Ajioka RS, et al. **Am J Hum Genet** 1997 Jun;60(6):1439–47
Lack of association of bovine MHC class I alleles with carcass and reproductive traits. Arriëns MA, et al. **Anim Genet** 1996 Dec;27(6):429–31
Immunogenetic profile of psoriasis vulgaris: association with haplotypes A2,B13,Cw6,DR7,DQA1*0201 and A1,B17,Cw6,DR7,DQA1*0201. Ikaheimo I, et al. **Arch Dermatol Res** 1996 Feb;288(2):63–7
Upregulation of HLA class-I gene transcription in K562 cells by analogs of splenopentin (SP-5). Chatterjee-Kishore M, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):521–8
The mechanism of down-regulation of major histocompatibility complex (MHC) class I antigens in highly oncogenic adenovirus 12-transformed cells. Hall KT, et al. **Biochem Soc Trans** 1997 May;25(2):353S
The down-regulation of MHC class I antigens in rat oligodendrocytes is mediated by negative regulatory elements in the class I promoter. Mavria G, et al. **Biochem Soc Trans** 1997 May;25(2):165S
HLA class I alterations in head and neck squamous cell carcinoma. Murray AK, et al. **Biochem Soc Trans** 1997 May;25(2):266S
Studies on the down-regulation of major histocompatibility complex class I gene expression in adenovirus-transformed cells. Philpott NJ, et al. **Biochem Soc Trans** 1997 May; 25(2):352S
Genetic and clinical description of hemochromatosis probands and heterozygotes: evidence that multiple genes linked to the major histocompatibility complex are responsible for hemochromatosis. Barton JC, et al. **Blood Cells Mol Dis** 1997;23(1):135–45; discussion 145a–b
Alloresistance to K locus class I–mismatched bone marrow engraftment is mediated entirely by CD4+ and CD8+ T cells. Hayashi H, et al. **Bone Marrow Transplant** 1996 Aug;18(2):285–92
Inhibition of melanoma-associated antigen expression and ecotropic retrovirus production in B16BL6 melanoma cells transfected with major histocompatibility complex class I genes. Li M, et al. **Cancer Res** 1996 Oct 1;56(19):4464–74
Conservation of an alpha 2 domain within the teleostean world, MHC class I from the rainbow trout Oncorhynchus mykiss. Hansen JD, et al. **Dev Comp Immunol** 1996 Nov–Dec;20(6):417–25
Polymorphism of bovine MHC class I genes. Joint report of the Fifth International Bovine Lymphocyte Antigen (BoLA) Workshop, Interlaken, Switzerland, 1 August 1992. Davies CJ, et al. **Eur J Immunogenet** 1994 Aug;21(4):239–58
Transcriptional regulation of MHC class I genes. Girdlestone J. **Eur J Immunogenet** 1996 Oct;23(5):395–413 (124 ref.)
A class I cDNA from SPAFAS line-11 chickens. Pharr GT, et al. **Eur J Immunogenet** 1994 Feb;21(1):59–66
Genomic structure and organization of a Q-like gene in the GRC-G/C region of the rat. Rushton JJ, et al. **Eur J Immunogenet** 1994 Jun;21(3):189–98
HLA gene frequencies and migration in an Italian province. De Silvestri A, et al. **Gene Geogr** 1996 Dec;10(3):207–17
Expression of two H-2K genes, syngeneic and allogeneic, as a strategy for potentiating immune recognition of tumor cells. Mandelboim O, et al. **Gene Ther** 1995 Dec; 2(10):757–65
Ea recombinational hot spot in the mouse major histocompatibility complex maps to the fourth intron of the Ea gene. Khambata S, et al. **Genome Res** 1996 Mar; 6(3):195–201
A precise meiotic map in the class I region of the human major histocompatibility complex. Bouissou C, et al. **Genomics** 1995 Dec 10;30(3):486–92
Systematic sequencing of the human HLA-A/HLA-F region: establishment of a cosmid contig and identification of a new gene cluster within 37 kb of sequence. Lepourcelet M, et al. **Genomics** 1996 Nov 1;37(3):316–26
Hemochromatosis and "HLA-H": definite! Jazwinska EC, et al. **Hepatology** 1997 Feb;25(2):495–6
HLA-G gene polymorphism segregation within CEPH reference families. Kirszenbaum M, et al. **Hum Immunol** 1997 Apr 1;53(2):140–7
Immunosusceptibility genes in rheumatoid arthritis. Sherritt MA, et al. **Hum Immunol** 1996 Nov;51(1):32–40
Genomic structure of the human MHC class I MICB gene. Bahram S, et al. **Immunogenetics** 1996;45(2):161–2
Mutations in the MHC class I–like candidate gene for hemochromatosis in French patients. Borot N, et al. **Immunogenetics** 1997;45(5):320–4
Identification of new HLA class I region genes by sample sequencing. Goldsworthy M, et al. **Immunogenetics** 1997; 46(3):206–12
Isolation of Mhc class I cDNAs from the axolotl Ambystoma mexicanum. Sammut B, et al. **Immunogenetics** 1997; 45(5):285–94
A new major histocompatibility complex class I b gene expressed in the mouse blastocyst and placenta. Sipes SL, et al. **Immunogenetics** 1996;45(2):108–20
The MHC contains multiple genes potentially relevant to hemochromatosis [editorial] Tay GK, et al. **Immunogenetics** 1997;45(5):336–40
Sequence-based association analysis of HLA class I and II alleles in Japanese supports conservation of common haplotypes. Tokunaga K, et al. **Immunogenetics** 1997; 46(3):199–205
Cw*1701 defines a divergent african HLA-C allelic lineage. Wells RS, et al. **Immunogenetics** 1997;46(3):173–80
Evolution of MHC class I genes in higher primates. Lienert K, et al. **Immunol Cell Biol** 1996 Aug;74(4):349–56 (60 ref.)
Evidence of genetic susceptibility to Chlamydia trachomatis-induced pelvic inflammatory disease in the pig-tailed macaque. Lichtenwalner AB, et al. **Infect Immun** 1997 Jun;65(6):2250–3
Control by H-2 genes of the Th1 response induced against a foreign antigen expressed by attenuated Salmonella typhimurium. Lo-Man R, et al. **Infect Immun** 1996 Nov; 64(11):4424–32
Contribution of HLA class I and class II alleles to the regulation of antibody production to hepatitis B surface antigen in humans. Mineta M, et al. **Int Immunol** 1996 Apr; 8(4):525–31
H-2 genes and resistance to infection with Heligmosomoides polygyrus in selectively bred mice. Su Z, et al. **Int J Parasitol** 1997 May;27(5):595–600
Active repression of major histocompatibility complex class I genes in a human neuroblastoma cell line. Murphy C, et al. **J Biol Chem** 1996 Nov 29;271(48):30992–9
Major histocompatibility complex (MHC) class I gene expression in single neurons of the central nervous system: differential regulation by interferon (IFN)-gamma and tumor necrosis factor (TNF)-alpha. Neumann H, et al. **J Exp Med** 1997 Jan 20;185(2):305–16
Identification of a novel MHC class I gene, Mamu-AG, expressed in the placenta of a primate with an inactivated G locus. Boyson JE, et al. **J Immunol** 1997 Oct 1; 159(7):3311–21
IFN regulatory factor-1 plays a central role in the regulation of the expression of class I and II MHC genes in vivo. Hobart M, et al. **J Immunol** 1997 May 1;158(9):4260–9
The pentanucleotide ATTGG, the "inverted CCAAT," is an essential element for HLA class I gene transcription. Schoneich J, et al. **J Immunol** 1997 May 15;158(10):4788–96
Analysis of polymorphism in porcine MHC class I genes: alterations in signals recognized by human cytotoxic lymphocytes. Sullivan JA, et al. **J Immunol** 1997 Sep 1; 159(5):2318–26
NF kappa B and interferon regulatory factor 1 physically interact and synergistically induce major histocompatibility class I gene expression. Drew PD, et al. **J Interferon Cytokine Res** 1995 Dec;15(12):1037–45
Tumour necrosis factor microsatellites show association with multiple sclerosis. Kirk CW, et al. **J Neurol Sci** 1997 Mar 20;147(1):21–5
Multiple class I motifs revealed by sequencing naturally processed peptides eluted from rat T cell MHC molecules. Burrows GG, et al. **J Neurosci Res** 1997 Jul 1;49(1):107–16
Hierarchy of Epstein-Barr virus-specific cytotoxic T-cell responses in individuals carrying different subtypes of an HLA allele: implications for epitope-based antiviral vaccines. Khanna R, et al. **J Virol** 1997 Oct;71(10):7429–35
Characterization of cytotoxic T lymphocytes recognizing autologous tumor cells with plural HLA-class I alleles in a patient with esophageal cancer. Maeda T. **Kurume Med J** 1997;44(1):23–32
Neutrality or selection? [letter] Hedrick P. **Nature** 1997 May 8;387(6629):138

Lack of class I HLA expression in neuroblastoma is associated with high N-myc expression and hypomethylation due to loss of the MEMO-1 locus. Cheng NC, et al. **Oncogene** 1996 Oct 17;13(8):1737-44

Class I and class II major histocompatibility complex alleles are associated with faecal egg counts following natural, predominantly Ostertagia circumcincta infection. Buitkamp J, et al. **Parasitol Res** 1996;82(8):693-6

A novel method for simultaneous high resolution identification of HLA-A, HLA-B, and HLA-Cw alleles. Arguello R, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10961-5

Cell stress-regulated human major histocompatibility complex class I gene expressed in gastrointestinal epithelium. Groh V, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12445-50

Immune response in human melanoma after transfer of an allogeneic class I major histocompatibility complex gene with DNA-liposome complexes. Nabel GJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15388-93

Origin and evolution of the class I gene family: why are some of the mammalian class I genes encoded outside the major histocompatibility complex? Kasahara M, et al. **Res Immunol** 1996 Jun;147(5):278-84; discussion 284-5 (52 ref.)

HLA-A *2607: sequence of a novel A*26 subtype predicted by DNA typing which shares the MA2.1 epitope with A*02, B*57 and B*58. Arnett KL, et al. **Tissue Antigens** 1996 May;47(5):422-5

On the sequence of A*3101. Arnett KL, et al. **Tissue Antigens** 1996 May;47(5):428-30

Nucleotide sequences of MHC class I introns 1, 2 and 3 in humans and intron 2 in nonhuman primates. Cereb N, et al. **Tissue Antigens** 1996 Sep;48(3):235-6

The presence of HLA-A*2403 and HLA-B*1512 on the same haplotype in a Thai family. Chandanayingyong D, et al. **Tissue Antigens** 1996 May;47(5):426-7

Description of a modified sequencing strategy and the molecular characterization of HLA-B*8201. Ellexson M, et al. **Tissue Antigens** 1996 May;47(5):438-41

HLA class I polymorphism and the susceptibility to malignant melanoma. Muto M, et al. **Tissue Antigens** 1996 May;47(5):447-9

Novel alleles HLA-B*7802 and B*51022: evidence for convergency in the HLA-B5 family. Prilliman K, et al. **Tissue Antigens** 1996 Jan;47(1):49-57

Loss of an HLA haplotype in pancreas cancer tissue and its corresponding tumor derived cell line. Torres MJ, et al. **Tissue Antigens** 1996 May;47(5):372-81

DNA typing of Cw*14 alleles in Japanese and the corrected sequence of Cw*1402. Wang H, et al. **Tissue Antigens** 1996 May;47(5):442-6

Molecular and functional phenotypes of melanoma cells with abnormalities in HLA class I antigen expression. Wang Z, et al. **Tissue Antigens** 1996 May;47(5):382-90

Complete cDNA sequence of B*4406, an HLA-B allele containing sequences of B*5101 and B*4402. Zhao W, et al. **Tissue Antigens** 1996 May;47(5):431-4

A single center evaluation of the Collaborative Transplant Study (CTS) DNA project. Emonds MP, et al. **Transpl Int** 1996;9(5):468-75

Role of natural killer cells and classical (RT1.A) vs nonclassical (RT1.C) class I molecules in acute bone marrow allograft rejection in lethally irradiated rats. Engh E, et al. **Transplant Proc** 1996 Dec;28(6):3265-6

Role of the thymus in donor specific hyporesponsiveness induced by retroviral transduction of bone marrow using an MHC class I gene. Hayashi H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1133

Genomic characterisation of the HLA class I region and identification of new genes. Powis SH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1447

Clonal contigs of the class I regions of the rat major histocompatibility complex. Walter L, et al. **Transplant Proc** 1997 May;29(3):1660

Nucleotide sequences of rat cDNA clones coding heavy chain class I major histocompatibility complex proteins. Wang M, et al. **Transplant Proc** 1997 May;29(3):1661-2

Retroviral gene transfer of a donor class I MHC gene to recipient bone marrow cells induces tolerance to alloantigens in vivo. Wong W, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1130

Class I MHC mediates programmed cell death in a Fas-independent manner. Woodle ES, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1101

Bovine herpesvirus 1 downregulates the expression of bovine MHC class I molecules. Nataraj C, et al. **Viral Immunol** 1997;10(1):21-34

[Expression of thyrotropin receptor gene in autoimmune thyroid disease and the relation to expression of HLA genes] Yang D, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):753-5 (Eng. Abstr.) **(Chi)**

[Antigen-presenting mechanism of MHC class I molecules] Tanaka K. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec; 19(6):544-7 (15 ref.) **(Jpn)**

DRUG EFFECTS

Modulation of major histocompatibility complex class I genes by interferon-gamma and ganglioside GT 1b in astrocytes: involvement of protein tyrosine phosphatases. Massa PT, et al. **J Neurochem** 1996 Nov;67(5):1831-9

IFN-gamma induces expression of MHC class I molecules in adult mouse dorsal root ganglion neurones. Fujimaki H, et al. **Neuroreport** 1996 Nov 25;7(18):2951-5

GENETICS

The genetics of proteasomes and antigen processing. Monaco JJ, et al. **Annu Rev Genet** 1995;29:729-54 (143 ref.)

Expression of HLA class I genes in meiotic and post-meiotic human spermatogenic cells. Guillaudeux T, et al. **Biol Reprod** 1996 Jul;55(1):99-110

Diploid expression of human leukocyte antigen class I and class II molecules on spermatozoa and their cyclic inverse correlation with inhibin concentration. Martín-Villa JM, et al. **Biol Reprod** 1996 Sep;55(3):620-9

An immunohistochemical study of altered immunomodulatory molecule expression in head and neck squamous cell carcinoma. Vora AR, et al. **Br J Cancer** 1997;76(7):836-44

Type III bare lymphocyte syndrome: lack of HLA class II gene expression and reduction in HLA class I gene expression. Sabatier C, et al. **C R Acad Sci III** 1996 Sep; 319(9):789-98

HLA class I phenotype and gene frequencies in parts of southern Nigeria. Uko GP, et al. **Dis Markers** 1997 Apr; 13(2):123-9

Isolation and ordering of HLA class I region cosmids. Goldsworthy M, et al. **DNA Seq** 1996;7(1):27-30

The telomeric and centromeric ends of HLA class I: MCD maps of YAC derived cosmids and sequence analysis of 740 kb of genomic DNA. Janer M, et al. **DNA Seq** 1996; 7(1):33-8

Possible sex-correlated transmission of maternal class I HLA haplotypes. Komlos L, et al. **Eur J Immunogenet** 1997 Jun; 24(3):169-77

Heterologous expression of adenovirus E3-gp19K in an E1a-deleted adenovirus vector inhibits MHC I expression in vitro, but does not prolong transgene expression in vivo. Schowalter DB, et al. **Gene Ther** 1997 Apr;4(4):351-60

A transcription map of the major histocompatibility complex (MHC) class I region. Gruen JR, et al. **Genomics** 1996 Aug 15;36(1):70-85

Associations between alleles of the major histocompatibility complex and type 1 autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1997 Feb;25(2):317-23

Sequence diversity present within the 5' upstream regions of BoLA class I genes. Barker N, et al. **Immunogenetics** 1997;46(4):352-4

Genes in two MHC class I regions control recognition of a single rat NK cell allodeterminant. Naper C, et al. **Int Immunol** 1996 Nov;8(11):1779-85

Regulation of major histocompatibility complex class I gene expression in thyroid cells. Role of the cAMP response element-like sequence. Saji M, et al. **J Biol Chem** 1997 Aug 8;272(32):20096-107

In vivo and in vitro evidence for iodide regulation of major histocompatibility complex class I and class II expression in Graves' disease. Schuppert F, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3622-8

A physical map of the Q region of B10.P. Litaker W, et al. **Mamm Genome** 1996 Mar;7(3):200-5

Downregulation of Waf1, C2, C3, and major histocompatibility complex class I loci within an 18-cM region of chromosome 17 in adenovirus-transformed mouse cells. Eyler YL, et al. **Mol Carcinog** 1997 Apr;18(4):213-20

Isolation and molecular characterization of spontaneous mutants of lymphoblastoid cells with extended loss of heterozygosity. de Nooij-van Dalen AG, et al. **Mutat Res** 1997 Mar 4;374(1):51-62

Analysis of MHC class I expression in equine trophoblast cells using in situ hybridization. Maher JK, et al. **Placenta** 1996 Jul-Aug;17(5-6):351-9

Phototyping: comprehensive DNA typing for HLA-A, B, C, DRB1, DRB3, DRB4, DRB5 & DQB1 by PCR with 144 primer mixes utilizing sequence-specific primers (PCR-SSP). Bunce M, et al. **Tissue Antigens** 1995 Nov; 46(5):355-67

The induction of class I and II major histocompatibility complex by allogeneic stimulation is dependent on the transcription factor interferon regulatory factor 1 (IRF-1): observations in IRF-1 knockout mice. Hobart M, et al. **Transplantation** 1996 Dec 27;62(12):1895-901

Loss of MHC I transcription trans-activator in the bovine B-LCL, BL3.1. Harms JS, et al. **Vet Immunol Immunopathol** 1996 May;51(1-2):39-54

IMMUNOLOGY

Placental expression of HLA class I genes. Le Bouteiller P, et al. **Am J Reprod Immunol** 1996 Mar;35(3):216-25 (60 ref.)

Non-major histocompatibility complex antigen class I-regulatory molecule for cytotoxicity by natural killer cells. Kamiguchi K, et al. **Artif Organs** 1996 Aug; 20(8):862-5

The MHC reactivity of the T cell repertoire prior to positive and negative selection. Zerrahn J, et al. **Cell** 1997 Mar 7; 88(5):627-36

Molecular aberrations in the MHC class I-restricted pathway for antigen presentation in methylcholanthrene sarcomas from nude mice: discrepancies between MHC mRNA and surface protein. Engel AM, et al. **Clin Exp Immunol** 1997 Aug;109(2):323-31

Isolation of major histocompatibility complex class I cDNA from pink salmon (Oncorhynchus gorbuscha). Katagiri T, et al. **Dev Comp Immunol** 1996 May-Jun;20(3):217-28

TAP-dependent major histocompatibility complex class I presentation of soluble proteins using listeriolysin. Darji A, et al. **Eur J Immunol** 1997 Jun;27(6):1353-9

Analysis of HLA class Ib gene expression in male gametogenic cells. Fiszer D, et al. **Eur J Immunol** 1997 Jul;27(7):1691-5

Description of a new HLA-E (E*01031) allele and its frequency in the Spanish population. Gomez-Casado E, et al. **Hum Immunol** 1997 Apr 15;54(1):69-73

HLA gene haplotype frequencies in bone marrow donors worldwide registries. Schipper RF, et al. **Hum Immunol** 1997 Jan;52(1):54-71

Site alpha is crucial for two routes of IFN gamma-induced MHC class I transactivation: the ISRE-mediated route and a novel pathway involving CIITA. Gobin SJ, et al. **Immunity** 1997 May;6(5):601-11

The mystery of HLA-B27 and disease. David CS. **Immunogenetics** 1997;46(1):73-7

Class I mhc genes of cichlid fishes: identification, expression, and polymorphism. Sato A, et al. **Immunogenetics** 1997; 46(1):63-72

Host MHC class I gene control of NK-cell specificity in the mouse. Höglund P, et al. **Immunol Rev** 1997 Feb; 155:11-28 (86 ref.)

The Ly-49 family: genes, proteins and recognition of class I MHC. Takei F, et al. **Immunol Rev** 1997 Feb;155:67-77 (55 ref.)

The importance of MHC-I and MHC-II responses in vaccine efficacy against lethal herpes simplex virus type 1 challenge. Ghiasi H, et al. **Immunology** 1997 Jul;91(3):430-5

Natural killer cell tolerance in mice with mosaic expression of major histocompatibility complex class I transgene. Johansson MH, et al. **J Exp Med** 1997 Aug 4;186(3):353-64

MHC class I-processed pseudogenes in New World primates provide evidence for rapid turnover of MHC class I genes. Cadavid LF, et al. **J Immunol** 1996 Sep 15;157(6):2403-9

Immunodominance of a single CTL epitope in a primate species with limited MHC class I polymorphism. Evans DT, et al. **J Immunol** 1997 Aug 1;159(3):1374-82

Respiratory syncytial virus infection of human respiratory epithelial cells up-regulates class I MHC expression through the induction of IFN-beta and IL-1 alpha. Garofalo R, et al. **J Immunol** 1996 Sep 15;157(6):2506-13

PCR identification of class I major histocompatibility complex genes transcribed in mouse blastocyst and placenta. Landel CP, et al. **J Reprod Immunol** 1997 Apr; 33(1):31-43

Genetic polymorphisms in the keratin-like S gene within the human major histocompatibility complex and association analysis on the susceptibility to psoriasis vulgaris. Ishihara M, et al. **Tissue Antigens** 1996 Sep;48(3):182-6

A comprehensive PCR-SSP typing system for identification of HLA-A locus alleles. Krausa P, et al. **Tissue Antigens** 1996 Mar;47(3):237-44

Molecular and serological characterization of HLA-B71 in association with different class I haplotypes or in different ethnic groups. Rodriguez SG, et al. **Tissue Antigens** 1996 Jan;47(1):58-62

PHYSIOLOGY

A human modifier of methylation for class I HLA genes (MEMO-1) maps to chromosomal bands 1p35-36.1. Cheng NC, et al. **Hum Mol Genet** 1996 Mar;5(3):309-17

On naming H2 haplotypes: functional significance of MHC class Ib alleles. Fischer Lindahl K. **Immunogenetics** 1997; 46(1):53-62 (139 ref.)

The NK2.1 receptor is encoded by Ly-49C and its expression is regulated by MHC class I alleles. Gosselin P, et al. **Int Immunol** 1997 Apr;9(4):533-40

Immunoselection in vivo: independent loss of MHC class I and melanocyte differentiation antigen expression in metastatic melanoma. Jäger E, et al. **Int J Cancer** 1997 Apr 10;71(2):142-7

Loss of intracisternal A-type retroviral particles in BL6 melanoma cells transfected with MHC class I genes. Li M, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2757-65

A comparative analysis of neuroblastic and substrate-adherent human neuroblastoma cell lines. La Quaglia MP, et al. **J Pediatr Surg** 1996 Feb;31(2):315-8

Evolution of MHC class I loci in marsupials: characterization of sequences from koala (Phascolarctos cinereus) [published erratum appears in Mol Biol Evol 1996 Dec;13(10):1407] Houlden BA, et al. **Mol Biol Evol** 1996 Oct;13(8):1119-27

GENES, MHC CLASS II

Further observations on the role of the MHC genes and certain hearing disorders. Bernstein JM, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):666-71

Identification of Mhc-Mamu-DQB1 allele combinations associated with rapid disease progression in rhesus macaques infected with simian immunodeficiency virus [letter] Sauermann U, et al. **AIDS** 1997 Jul 15;11(9):1196-8

Characterization of recombination in the HLA class II region. Cullen M, et al. **Am J Hum Genet** 1997 Feb; 60(2):397-407

Polymorphism at the ovine major histocompatibility complex class II loci. Escayg AP, et al. **Anim Genet** 1996 Oct; 27(5):305-12

PvuII RFLPs at SLA class II loci: DQA and DRA. Nielsen

VH, et al. **Anim Genet** 1997 Apr;28(2):151–2

Detection of a common BoLA–DRB3 deletion by sequence–specific oligonucleotide typing. Sitte K, et al. **Anim Genet** 1996 Aug;27(4):271–3

HLA class II genes associated with REM sleep behavior disorder. Schenck CH, et al. **Ann Neurol** 1996 Feb; 39(2):261–3

Immunogenetic profile of psoriasis vulgaris: association with haplotypes A2,B13,Cw6,DR7,DQA1*0201 and A1,B17,Cw6,DR7,DQA1*0201. Ikaheimo I, et al. **Arch Dermatol Res** 1996 Feb;288(2):63–7

Clonal T cell responses reflect the expression of multiple DQ genes in cattle. Russell GC, et al. **Biochem Soc Trans** 1997 May;25(2):202S

Intracellular and cell surface mapping of HLA DR in the presence and absence of the invariant chain. Triantafilou K, et al. **Biochem Soc Trans** 1997 May;25(2):259S

Genetic linkage of mild malaria to the major histocompatibility complex in Gambian children: study of affected sibling pairs. Jepson A, et al. **BMJ** 1997 Jul 12; 315(7100):96–7

The dorsoventral regulatory gene cassette spätzle/Toll/cactus controls the potent antifungal response in Drosophila adults. Lemaitre B, et al. **Cell** 1996 Sep 20; 86(6):973–83

No independent associations of LMP2 and LMP7 polymorphisms with susceptibility to develop IDDM. Undlien DE, et al. **Diabetes** 1997 Feb;46(2):307–12

Role of HLA class II alleles in Korean patients with IDDM [published errata appear in Diabetes Res Clin Pract 1996 Jul;33(2):137 and 1997 Jan;34(3):183] Lee HC, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1–3):9–15

Expression of MHC class II molecules in different cellular and functional compartments is controlled by differential usage of multiple promoters of the transactivator CIITA. Muhlethaler–Mottet A, et al. **EMBO J** 1997 May 15; 16(10):2851–60

Polymorphism of bovine MHC class II genes. Joint report of the Fifth International Bovine Lymphocyte Antigen (BoLA) Workshop, Interlaken, Switzerland, 1 August 1992. Davies CJ, et al. **Eur J Immunogenet** 1994 Aug;21(4):259–89

DR7–Dw17 and DR7–DwDB1 haplotypes contain different alleles of the HLA–DRB7 pseudogene. Day S, et al. **Eur J Immunogenet** 1994 Oct;21(5):383–6

HLA class II region genes and susceptibility to dermatitis herpetiformis: DPB1 and TAP2 associations are secondary to those of the DQ subregion. Hall MA, et al. **Eur J Immunogenet** 1996 Aug;23(4):285–96

HLA class II region nucleotide sequences, 1994 [published erratum appears in Eur J Immunogenet 1995 Apr;22(2):225–8] Marsh SG, et al. **Eur J Immunogenet** 1994 Dec;21(6):519–51

Current knowledge on the major histocompatibility complex class II region in non–human primates. Slierendregt BL, et al. **Eur J Immunogenet** 1994 Oct;21(5):391–402 (75 ref.)

Active suppression of the class II transactivator–encoding AIR–1 locus is responsible for the lack of major histocompatibility complex class II gene expression observed during differentiation from B cells to plasma cells. Sartoris S, et al. **Eur J Immunol** 1996 Oct;26(10):2456–60

HLA gene frequencies and migration in an Italian province. De Silvestri A, et al. **Gene Geogr** 1996 Dec;10(3):207–17

A 2–Mb YAC contig and physical map of the natural killer gene complex on mouse chromosome 6. Brown MG, et al. **Genomics** 1997 May 15;42(1):16–25

IL–2–induced proliferative response is controlled by loci Cinda1 and Cinda2 on mouse chromosomes 11 and 12: a distinct control of the response induced by different IL–2 concentrations. Krulová M, et al. **Genomics** 1997 May 15; 42(1):11–5

HLA class II genes in chronic hepatitis C virus–infection and associated immunological disorders. Congia M, et al. **Hepatology** 1996 Dec;24(6):1338–41

Two novel mutations in the MHC class II transactivator CIITA in a second patient from MHC class II deficiency complementation group A. Bontron S, et al. **Hum Genet** 1997 Apr;99(4):541–6

Sequence of HLA–DRB 1*1606 is incorrect [published erratum appears in Hum Immunol 1996 Mar;46(1):65–6] Anholts JD, et al. **Hum Immunol** 1996 Mar;46(1):65–6

A novel DR beta 1*03 allele identified by polymerase chain reaction–restriction fragment length polymorphism. Fenske B, et al. **Hum Immunol** 1996 Mar;46(1):55–7

Three HLA–DMB variants in Korean patients with autoimmune diseases. Kim TG, et al. **Hum Immunol** 1996 Mar;46(1):58–60

A computerized method to predict the discriminatory properties for class II sequencing based typing. Rozemuller EH, et al. **Hum Immunol** 1996 Mar;46(1):27–34

Functional characterization of a chicken major histocompatibility complex class II B gene promoter. Chen Y, et al. **Immunogenetics** 1997;45(4):242–8

The regulation mechanism of HLA class II gene expression at the level of mRNA stability. Del Pozzo G, et al. **Immunogenetics** 1996;44(6):453–8

Evolution of MHC class II beta chain–encoding genes in the Lake Tana barbel species flock (Barbus intermedius complex). Dixon B, et al. **Immunogenetics** 1996; 44(6):419–31

Both alpha and beta chain polymorphisms determine the specificity of the disease–associated HLA–DQ2 molecules, with beta chain residues being most influential. Johansen BH, et al. **Immunogenetics** 1996;45(2):142–50

Isolation of a B–cell–specific promoter for the human class II transactivator. Lennon AM, et al. **Immunogenetics** 1997; 45(4):266–73

Mouse class II transactivator: cDNA sequence and amino acid comparison with the human class II transactivator. Sims TN, et al. **Immunogenetics** 1997;45(3):220–2

Sequence–based association analysis of HLA class I and II alleles in Japanese supports conservation of common haplotypes. Tokunaga K, et al. **Immunogenetics** 1997; 46(3):199–205

Targeted expression of MHC class II genes to dendritic cells in vivo. Riedinger M, et al. **Immunol Lett** 1997 Jun 1; 57(1–3):155–8

HLA–DO is an intracellular class II molecule with distinctive thymic expression. Douek DC, et al. **Int Immunol** 1997 Mar;9(3):355–64

Contribution of HLA class I and class II alleles to the regulation of antibody production to hepatitis B surface antigen in humans. Mineta M, et al. **Int Immunol** 1996 Apr; 8(4):525–31

Genetic markers in early diabetic retinopathy of adolescents with type I diabetes. Falck AA, et al. **J Diabetes Complications** 1997 Jul–Aug;11(4):203–7

An isotype–specific activator of major histocompatibility complex (MHC) class II genes that is independent of class II transactivator. Douhan J, et al. **J Exp Med** 1997 Jun 2;185(11):1885–95

A peptide–binding motif for I–A(g7), the class II major histocompatibility complex (MHC) molecule of NOD and Biozzi AB/H mice. Harrison LC, et al. **J Exp Med** 1997 Mar 17;185(6):1013–21

MHC class II genes influence the susceptibility to chronic active hepatitis C. Höhler T, et al. **J Hepatol** 1997 Aug; 27(2):259–64

Identification of the rhesus monkey HLA–G ortholog. Mamu–G is a pseudogene. Boyson JE, et al. **J Immunol** 1996 Dec 15;157(12):5428–37

Correction of defective expression in MHC class II deficiency (bare lymphocyte syndrome) cells by retroviral transduction of CIITA. Bradley MB, et al. **J Immunol** 1997 Aug 1;159(3):1086–95

IFN regulatory factor–1 plays a central role in the regulation of the expression of class I and II MHC genes in vivo. Hobart M, et al. **J Immunol** 1997 May 1;158(9):4260–9

Regulatory factor X, a bare lymphocyte syndrome transcription factor, is a multimeric phosphoprotein complex. Moreno CS, et al. **J Immunol** 1997 Jun 15; 158(12):5841–8

Functional in vivo MHC class II loading by endogenously synthesized glycoprotein during viral infection. Oxenius A, et al. **J Immunol** 1997 Jun 15;158(12):5717–26

HLA–DMA and HLA–DMB gene expression functions through the conserved S–X–Y region. Westerheide SD, et al. **J Immunol** 1997 May 15;158(10):4812–21

CIITA–dependent and –independent class II MHC expression revealed by a dominant negative mutant. Zhou H, et al. **J Immunol** 1997 May 15;158(10):4741–9

DNA typing of HLA class II genes in Japanese patients with rheumatic heart disease. Koyanagi T, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1349–53

Genetics of multiple sclerosis—how could disease–associated HLA–types contribute to pathogenesis? Martin R. **J Neural Transm Suppl** 1997;49:177–94 (89 ref.)

HLA Class II genotypes associated with early–onset periodontitis: DQB1 molecule primarily confers susceptibility to the disease. Ohyama H, et al. **J Periodontol** 1996 Sep;67(9):888–94

Association of DPB1 genes with systemic lupus erythematosus [letter] Fronek Z, et al. **J Rheumatol** 1997 Jan;24(1):232–4

Development of polyarthritis after insertion of silicone breast implants followed by remission after implant removal in 2 HLA–identical sisters bearing rheumatoid arthritis susceptibility genes. Meier LG, et al. **J Rheumatol** 1997 Sep;24(9):1838–41

Limited diversity in the major histocompatibility complex class II loci of Syrian hamster DNA. Hixon ML, et al. **Lab Anim Sci** 1996 Dec;46(6):679–81 (15 ref.)

Genetic factors predisposing to B–CLL and to autoimmune disease in spontaneous murine model. Hirose S, et al. **Leukemia** 1997 Apr;11 Suppl 3:267–70

Histocompatibility genes in antiphospholipid antibody syndrome. Wilson WA. **Lupus** 1996 Aug;5(4):259–62

Role of muIP–10 in interferon–gamma induction of Ia in rat astrocytes. Vanguri P, et al. **Mol Immunol** 1996 Sep; 33(13):1079–87

The case of the bare lymphocyte syndrome—tracking down faulty transcription factors [editorial; comment] Schwartz RS. **N Engl J Med** 1997 Sep 11;337(11):781–3. Comment on: N Engl J Med 1997 Sep 11;337(11):748–53.

Heterozygote advantage for HLA class–II type in hepatitis B virus infection [letter] Thursz MR, et al. **Nat Genet** 1997 Sep;17(1):11–2

The class II trans–activator CIITA interacts with the TBP–associated factor TAFII32. Fontes JD, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2522–8

Sequence–independent inhibition of RNA transcription by DNA dumbbells and other decoys. Lim CS, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):575–81

Inhibitor (IK) of IFN–gamma induced HLA class II antigens expression also inhibits HLA class II constitutive expression in the human Raji B cell line. Vedrenne J, et al. **Oncogene** 1997 Mar 27;14(12):1453–61

Heterogeneity in the recognition of Ostertagia circumcincta antigens by serum antibody from mature, infected sheep. McCririe L, et al. **Parasite Immunol** 1997 May;19(5):235–42

Class I and class II major histocompatibility complex alleles are associated with faecal egg counts following natural, predominantly Ostertagia circumcincta infection. Buitkamp J, et al. **Parasitol Res** 1996;82(8):693–6

Importance of acidic, proline/serine/threonine–rich, and GTP–binding regions in the major histocompatibility complex class II transactivator: generation of transdominant–negative mutants. Chin KC, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2501–6

Transactivation by CIITA, the type II bare lymphocyte syndrome–associated factor, requires participation of multiple regions of the TATA box binding protein. Mahanta SK, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6324–9

Specific complex formation between the type II bare lymphocyte syndrome–associated transactivators CIITA and RFX5. Scholl T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6330–4

HLA–DRB9—possible remnant of an ancient functional DRB subregion. Gongora R, et al. **Scand J Immunol** 1997 May;45(5):504–10

HLA sequence polymorphism and the origin of humans [letter; comment] Erlich HA, et al. **Science** 1996 Nov 29; 274(5292):1552–4. Comment on: Science 1995 Dec 22;270(5244):1930–6.

Evidence for linkage disequilibrium between HLA–DRB1 gene and multiple sclerosis. The French Research Group on Genetic Susceptibility to MS [letter; comment] Yaouanq J, et al. **Science** 1997 May 2;276(5313):664–5. Comment on: Science 1996 Sep 13;273(5281):1516–7.

HLA class II profile: a weak determinant of factor VIII inhibitor development in severe haemophilia A. UKHCDO Inhibitor Working Party. Hay CR, et al. **Thromb Haemost** 1997 Feb;77(2):234–7

HLA genotype of patients with severe haemophilia A due to intron 22 inversion with and without inhibitors of factor VIII. Oldenburg J, et al. **Thromb Haemost** 1997 Feb; 77(2):238–42

MHC class II alleles and haplotypes in patients with pemphigus vulgaris from India. Delgado JC, et al. **Tissue Antigens** 1996 Dec;48(6):668–72

MHC–DRB allelic sequences incorporate distinct intragenic trans–specific segments. Gaur LK, et al. **Tissue Antigens** 1997 Apr;49(4):342–55

Complete allele typing of DR2–DRB1 by a combination of PCR–RFLF and PCR–SSP. Granja CB, et al. **Tissue Antigens** 1996 Jan;47(1):80–4

Functional significance of polymorphism among MHC class II gene promoters. Guardiola J, et al. **Tissue Antigens** 1996 Dec;48(6):615–25 (114 ref.)

Polymorphic MHC class II promoters exhibit distinct expression pattern in various antigen–presenting cell lines. Janitz M, et al. **Tissue Antigens** 1997 Feb;49(2):99–106

HLA DR and DQ polymorphism in Ashkenazi and non–Ashkenazi Jews: comparison with other Mediterraneans. Martinez–Laso J, et al. **Tissue Antigens** 1996 Jan;47(1):63–71

Identification of a DRB1*0405 variant (DRB1*04052) using the PCR–RFLP method. Moribe T, et al. **Tissue Antigens** 1996 May;47(5):450–3

Large–scale DRB and DQB1 oligonucleotide typing for the NMDP registry: progress report from year 2. Ng J, et al. **Tissue Antigens** 1996 Jan;47(1):21–6

Human TAP1 polymorphisms detected by denaturing gradient gel electrophoresis. Shi L, et al. **Tissue Antigens** 1997 Apr;49(4):421–6

Molecular analysis of the DLA DR region. Wagner JL, et al. **Tissue Antigens** 1996 Nov;48(5):549–53

Molecular analysis of DLA–DRBB1 polymorphism. Wagner JL, et al. **Tissue Antigens** 1996 Nov;48(5):554–61

Different contribution of HLA–DR and –DQ genes in susceptibility and resistance to insulin–dependent diabetes mellitus (IDDM). Yasunaga S, et al. **Tissue Antigens** 1996 Jan;47(1):37–48

Reduced frequency of HLA–DQ6 in individuals with a positive direct antiglobulin test. Wang–Rodriguez J, et al. **Transfusion** 1996 Nov–Dec;36(11–12):979–84

A single center evaluation of the Collaborative Transplant Study (CTS) DNA project. Emonds MP, et al. **Transpl Int** 1996;9(5):468–75

Xenogeneic but not allogeneic pancreatic islet graft survival in recipients lacking humoral immunity and major histocompatibility complex class II antigens. Chu G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):901–2

HLA class II profile of a Polish population: frequencies of DRB1, DQA1, DQB1, and DPB1 alleles and DRB1–DQA1–DQB1 haplotypes. Płoski R, et al. **Transplant Proc** 1996 Dec;28(6):3431–2

HLA–D region genes and susceptibility to rheumatoid arthritis. Singal DP, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1126

Mechanism of tolerance following class II gene transduction of autologous swine bone marrow. Yasumoto A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1132

[Expression of thyrotropin receptor gene in autoimmune thyroid disease and the relation to expression of HLA genes] Yang D, et al. **Chung Hua I Hsueh Tsa Chih** 1996

Oct;76(10):753–5 (Eng. Abstr.) **(Chi)**

[HLA polymorphism: the origin of individual response in immunity] Takata H, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2355–68 (49 ref.) **(Jpn)**

DRUG EFFECTS

Interleukin–10 inhibited the expression of tumor antigens and major histocompatibility complex antigen on EJ–ras oncogene transformants. Tsuruma T, et al. **Artif Organs** 1996 Aug;20(8):895–7

Vitamin D3 reduces the apoptotic effect of IFN–gamma but does not facilitate HLA class II inducibility in RB–defective cells. Schmidt B, et al. **Cancer Lett** 1996 Dec 20;110(1–2):169–76

TGF–beta suppresses IFN–gamma induction of class II MHC gene expression by inhibiting class II transactivator messenger RNA expression. Lee YJ, et al. **J Immunol** 1997 Mar 1;158(5):2065–75

IFN–gamma–induced MHC class II gene expression is suppressed in endothelial cells by dextran sulfate. Lian RH, et al. **J Immunol** 1996 Jul 15;157(2):864–73

HgCl2 and IL4 differentially modify expression of major histocompatibility complex class II molecules RT1.B and RT1.D in B lymphocytes from brown Norway and Lewis rats. Roos A, et al. **Transplant Proc** 1997 May;29(3):1675–6

15–deoxyspergualin downregulates MHC class II antigen expression and cell migration in models of graft–versus–host and host–versus–graft disease. Waaga AM, et al. **Transplant Proc** 1996 Oct;28(5):2515–7

GENETICS

Canine Mhc DRB1 genotyping by PCR–RFLP analysis. Francino O, et al. **Anim Genet** 1997 Feb;28(1):41–5

The red deer (Cervus elaphus) contains two expressed major histocompatibility complex class II DQB genes. Swarbrick PA, et al. **Anim Genet** 1997 Feb;28(1):49–51

The genetics of proteasomes and antigen processing. Monaco JJ, et al. **Annu Rev Genet** 1995;29:729–54 (143 ref.)

Staphylococcus epidermidis graft infection is associated with locally suppressed major histocompatibility complex class II and elevated MAC–1 expression. Henke PK, et al. **Arch Surg** 1997 Aug;132(8):894–902

Neonatal lupus erythematosus: haplotypic analysis of HLA class II alleles in child/mother pairs. Miyagawa S, et al. **Arthritis Rheum** 1997 May;40(5):982–3

Type III bare lymphocyte syndrome: lack of HLA class II gene expression and reduction in HLA class I gene expression. Sabatier C, et al. **C R Acad Sci III** 1996 Sep; 319(9):789–98

Murine neuroblastoma vaccines produced by retroviral transfer of MHC class II genes. Hock RA, et al. **Cancer Gene Ther** 1996 Sep–Oct;3(5):314–20

Induction and maintenance of T–cell response to a nonimmunogenic murine mesothelioma cell line requires expression of B7–1 and the capacity to upregulate class II major histocompatibility complex expression. Leong C, et al. **Cancer Gene Ther** 1996 Sep–Oct;3(5):321–30

HLA–DPB1 and TAP1 polymorphisms in sarcoidosis. Foley P, et al. **Chest** 1997 Jun;111(6 Suppl):73S

Distribution of HLA class II alleles in Korean patients with epidermolysis bullosa acquisita. Lee CW, et al. **Dermatology** 1996;193(4):328–9

MHC class II B genes in the channel catfish (Ictalurus punctatus). Godwin UB, et al. **Dev Comp Immunol** 1997 Jan–Feb;21(1):13–23

Susceptibility to type 1 diabetes in the Senegalese population is linked to HLA–DQ and not TAP and LMP genes. Chauffert M, et al. **Diabetes Care** 1997 Aug;20(8):1299–303

DNA sequencing of the MHC class II region and the chromosome 6 sequencing effort at the Sanger Centre. Abdulla S, et al. **DNA Seq** 1996;7(1):5–7

Organisation and functions of class II genes and molecules. Beck S, et al. **DNA Seq** 1996;7(1):21–3

RFXAP, a novel subunit of the RFX DNA binding complex is mutated in MHC class II deficiency. Durand B, et al. **EMBO J** 1997 Mar 3;16(5):1045–55

Report from the HLA class II typing by PCR–SSP Multicentre Study. Zetterquist H, et al. **Eur J Immunogenet** 1997 Jun;24(3):191–9

Ancestral polymorphism of Mhc class II genes in mice: implications for balancing selection and the mammalian molecular clock. Edwards SV, et al. **Genetics** 1997 Jun; 146(2):655–68

Association of HLA class II genes with susceptibility to Crohn's disease. Danzé PM, et al. **Gut** 1996 Jul;39(1):69–72

Associations between alleles of the major histocompatibility complex and type 1 autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1997 Feb;25(2):317–23

Restriction fragment length polymorphism of HLA–DR and HLA–DQ allotypes in four endogamous groups of western India. Hawi ZH, et al. **Hum Biol** 1996 Oct;68(5):739–54

Analysis of genetic diversity at the DQA loci in African cattle: evidence for a BoLA–DQA3 locus. Ballingall KT, et al. **Immunogenetics** 1997;46(3):237–44

Chronic Trypanosoma cruzi infection in the rat: cyclophosphamide–induced recovery of adjuvant arthritis correlates with changes in the levels of lymph node T–lymphocytes and class II+ cells. Didoli G, et al. **Int J Immunopharmacol** 1996 Feb;18(2):127–33

Neonatal lupus erythematosus: analysis of HLA class II alleles in mothers and siblings from seven Japanese families. Miyagawa S, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):186–90

In vivo and in vitro evidence for iodide regulation of major histocompatibility complex class I and class II expression in Graves' disease. Schuppert F, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3622–8

Genetic analysis of hydatidiform moles in paraffin wax embedded tissue using rapid, sequence specific PCR–based HLA class II typing. Bateman AC, et al. **J Clin Pathol** 1997 Apr;50(4):288–93

Assembly of functional regulatory complexes on MHC class II promoters in vivo. Fontes JD, et al. **J Mol Biol** 1997 Jul 18;270(3):336–45

Efficient repression of endogenous major histocompatibility complex class II expression through dominant negative CIITA mutants isolated by a functional selection strategy. Bontron S, et al. **Mol Cell Biol** 1997 Aug;17(8):4249–58

Physical and functional interaction between the human T–cell lymphotropic virus type 1 Tax1 protein and the CCAAT binding protein NF–Y. Pise–Masison CA, et al. **Mol Cell Biol** 1997 Mar;17(3):1236–43

Repression of MHC class II gene transcription in trophoblast cells by novel single–stranded DNA binding proteins. Murphy SP, et al. **Mol Reprod Dev** 1997 Aug;47(4):390–403

Mutation of RFXAP, a regulator of MHC class II genes, in primary MHC class II deficiency [see comments] Villard J, et al. **N Engl J Med** 1997 Sep 11;337(11):748–53. Comment in: N Engl J Med 1997 Sep 11;337(11):781–3.

Clinical and immunogenetic investigation of a Laotian patient with Vogt–Koyanagi–Harada's disease. Shindo Y, et al. **Ophthalmologica** 1996;210(2):112–4

Frequencies and genetic diversity of major histocompatibility complex class II haplotypes in commercial turkey lines. Zhu J, et al. **Poult Sci** 1996 Aug;75(8):954–8

Association of DM genes in systemic sclerosis is secondary to the association with HLA genes. Takeuchi F, et al. **Scand J Rheumatol** 1997;26(3):174–9

Schizophrenia, rheumatoid arthritis and natural resistance genes. Rubinstein G. **Schizophr Res** 1997 Jun 20; 25(3):177–81 (40 ref.)

Multivariate analysis of HLA loci in conjunction with a thyrotropin receptor codon 52 polymorphism in conferring risk of Graves' disease. Cuddihy RM, et al. **Thyroid** 1996 Aug;6(4):261–5

Phototyping: comprehensive DNA typing for HLA–A, B, C, DRB1, DRB3, DRB4, DRB5 & DQB1 by PCR with 144 primer mixes utilizing sequence–specific primers (PCR–SSP). Bunce M, et al. **Tissue Antigens** 1995 Nov; 46(5):355–67

Suggested lineage of the rare DRB1*1417 allele from DRB1*1301––general implications for matched unrelated bone marrow donor searching. Lester S, et al. **Tissue Antigens** 1995 Nov;46(5):426–7

HLA class II alleles and autoantibodies in Bulgarians with systemic lupus erythematosus. Marintchev LM, et al. **Tissue Antigens** 1995 Nov;46(5):422–5

HLA–class II alleles and C4 null genes in Greeks with systemic lupus erythematosus. Reveille JD, et al. **Tissue Antigens** 1995 Nov;46(5):417–21

The induction of class I and II major histocompatibility complex by allogeneic stimulation is dependent on the transcription factor interferon regulatory factor 1 (IRF–1): observations in IRF–1 knockout mice. Hobart M, et al. **Transplantation** 1996 Dec 27;62(12):1895–901

Comparative immunocytochemical study of MHC class II expression in human donor pancreas and isolated islets. Lu W, et al. **Virchows Arch** 1996 Nov;429(4–5):205–11

[Diagnostic strategies in rheumatology. 4: Laboratory diagnosis––autoantibodies, immunogenetics and diagnosis of inflammation] Genth E. **Fortschr Med** 1997 Apr 20; 115(11):49–51 **(Ger)**

IMMUNOLOGY

Regulation of MHC class II genes: lessons from a disease. Mach B, et al. **Annu Rev Immunol** 1996;14:301–31 (138 ref.)

Lupus anticoagulants: strong association with the major histocompatibility complex class II and platelet antibodies. Panzer S, et al. **Br J Haematol** 1997 Aug;98(2):342–5

The MHC reactivity of the T cell repertoire prior to positive and negative selection. Zerrahn J, et al. **Cell** 1997 Mar 7; 88(5):627–36

Regulation of transcription of MHC class II genes. Boss JM. **Curr Opin Immunol** 1997 Feb;9(1):107–13 (57 ref.)

Polymorphism of the HLA–DRB1 locus in Colombian, Ecuadorian, and Chilean Amerinds. Blagitko N, et al. **Hum Immunol** 1997 Apr 15;54(1):74–81

HLA gene haplotype frequencies in bone marrow donors worldwide registries. Schipper RF, et al. **Hum Immunol** 1997 Jan;52(1):54–71

Interaction between certain major histocompatibility complex class II and T–cell receptor V beta alleles promotes the antibody production to extractable nuclear antigen–related peptides. Youinou P, et al. **Hum Immunol** 1997 Jan;52(1):12–21

The importance of MHC–I and MHC–II responses in vaccine efficacy against lethal herpes simplex virus type 1 challenge. Ghiasi H, et al. **Immunology** 1997 Jul;91(3):430–5

Regulation of the E beta gene in vivo: lessons from E beta d transgenic mice. Douhan J 3rd, et al. **Int Immunol** 1996 Feb;8(2):255–65

Interval mapping of quantitative trait loci controlling humoral immunity to exogenous antigens: evidence that non–MHC immune response genes may also influence susceptibility to autoimmunity. Wu J, et al. **J Immunol** 1996 Sep 15;157(6):2498–505

Nature and origin of polymorphism in feline MHC class II DRA and DRB genes. Yuhki N, et al. **J Immunol** 1997 Mar 15;158(6):2822–33

I–A beta gene expression regulation in macrophages derived from mice susceptible or resistant to infection with M. bovis BCG. Barrera LF, et al. **Mol Immunol** 1997 Mar; 34(4):343–55

Expression of HLA–DR and cytokine genes on interferon–gamma–stimulated human salivary gland cell line. Hamano H, et al. **Pathobiology** 1996;64(5):255–61

Linkage disequilibrium between HLA class II (DR, DQ, DP) and antigen processing (LMP, TAP, DM) genes of the major histocompatibility complex. Djilali–Saiah I, et al. **Tissue Antigens** 1996 Aug;48(2):87–92

Rapid allelic diversification and intensified selection at antigen recognition sites of the Mhc class II DPB1 locus during hominoid evolution. Gyllensten U, et al. **Tissue Antigens** 1996 Mar;47(3):212–21

HLA–C typing of eleven Papua New Guineans: identification of an HLA–Cw4/Cw2 hybrid allele. Little AM, et al. **Tissue Antigens** 1996 Aug;48(2):113–7

Detection of the DRB4 null gene, DRB4*0101102N, by PCR–SSP and its distinction from other DRB4 genes. O'Neill CM, et al. **Tissue Antigens** 1996 Mar;47(3):245–8

Primate DRB6 gene expression and evolution: a study in Macaca mulatta and Cercopithecus aethiops. Paz–Artal E, et al. **Tissue Antigens** 1996 Mar;47(3):222–7

A PCR–RFLP typing method for the caprine Mhc class II DRB gene. Amills M, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1–3):255–60

Differential levels of mRNAs for cytokines, the interleukin–2 receptor and class II DR/DQ genes in ovine interstitial pneumonia induced by maedi visna virus infection. Woodall CJ, et al. **Vet Pathol** 1997 May;34(3):204–11

[Structure and function of the major histocompatibility complex (MHC) class II antigens] Falkiewicz B, et al. **Postepy Biochem** 1996;42(4):340–9 (96 ref.) **(Pol)**

PHYSIOLOGY

The role of MHC class II genes in susceptibility and resistance to type I diabetes mellitus in the NOD mouse. McDevitt H, et al. **Horm Metab Res** 1996 Jun;28(6):287–8

Induction of MHC class I expression by the MHC class II transactivator CIITA. Martin BK, et al. **Immunity** 1997 May;6(5):591–600

GENES, MOS

see related
GENES, INTRACISTERNAL A–PARTICLE

Elements in the murine c–mos messenger RNA 5'–untranslated region repress translation of downstream coding sequences. Steel LF, et al. **Cell Growth Differ** 1996 Oct;7(10):1415–24

Deregulation of specific E2F complexes by the v–mos oncogene. Afshari CA, et al. **Oncogene** 1997 Jun 26; 14(25):3029–38

Serum starved v–mos–transformed cells are unable to appropriately downregulate cyclins and CDKs. Rhodes N, et al. **Oncogene** 1997 Jun 26;14(25):3017–27

CENP–E is an essential kinetochore motor in maturing oocytes and is masked during mos–dependent, cell cycle arrest at metaphase II. Duesbery NS, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9165–70

R7, a spontaneous mutant of Moloney murine sarcoma virus 124 with three direct repeats and an in–frame truncated gag–mos gene, induces brain lesions. Yuen PH, et al. **Virology** 1997 Sep 15;236(1):213–8

[New immortalized cell lines from transgenic rat embryos. I. The isolation and characteristics of cell lines from rat embryos with an injected v–mos oncogene coupled with or without the gene for genecitin resistance] Pugovkina NA, et al. **Tsitologiia** 1996;38(4–5):530–41 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Cux/CDP homeodomain protein binds to an enhancer in the rat c–mos locus and represses its activity. Higgy NA, et al. **Biochim Biophys Acta** 1997 Apr 10;1351(3):313–24

A dependent pathway of cytoplasmic polyadenylation reactions linked to cell cycle control by c–mos and CDK1 activation. Ballantyne S, et al. **Mol Biol Cell** 1997 Aug; 8(8):1633–48

GENES, MYC

see related
ONCOGENE PROTEIN P55(V–MYC)
PROTO–ONCOGENE PROTEINS C–MYC

c–Myc in the control of cell proliferation and embryonic development. Lemaitre JM, et al. **Adv Cancer Res** 1996; 70:95–144 (348 ref.)

Loss of the N–myc oncogene in a patient with a small interstitial deletion of the short arm of chromosome 2. Saal HM, et al. **Am J Med Genet** 1996 Dec 30;66(4):373–7 (17 ref.)

Cytotoxic effect of sodium nitroprusside on cancer cells: involvement of apoptosis and suppression of c–myc and

c-myb proto-oncogene expression. Sumitani K, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):865-71

Lack of induction of tissue transglutaminase but activation of the preexisting enzyme in c-Myc-induced apoptosis of CHO cells. Balajthy Z, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):280-4

Effect of oncogene transformation of rat embryo cells on cellular oxygen consumption and glycolysis. Biaglow JE, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):739-42

Calcium-dependent c-myc proto-oncogene expression and proliferation of Caco-2 cells: a role for a luminal extracellular calcium-sensing receptor. Kállay E, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):80-3

Pretreatment by tubulin agents decreases C-MYC induction in human colon carcinoma cell line HT29-D4. el Khyari S, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):751-4

Protein kinase C and c-myc gene activation pathways in thrombopoietin signal transduction. Kunitama M, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):290-4

Role for Bcl-xL in the regulation of apoptosis by EGF and TGF beta 1 in c-myc overexpressing mammary epithelial cells. Nass SJ, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):248-56

1,25-dihydroxyvitamin D3 regulates the expression of N-myc, c-myc, protein kinase C, and transforming growth factor-beta2 in neuroblastoma cells. Veenstra TD, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):15-8

Overexpression of prothymosin alpha, concomitant with c-myc, during rat hepatic carcinogenesis. Wu CG, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):817-21

Benzo(a)pyrene, but not 2,3,7,8-tetrachlorodibenzo-p-dioxin, alters cell proliferation and c-myc and growth factor expression in human placental choriocarcinoma JEG-3 cells. Zhang L, et al. **Biochem Biophys Res Commun** 1997 Feb 3; 231(1):117-20

Inhibition of the expression of ornithine decarboxylase and c-Myc by cell-permeant ceramide in difluoromethylornithine-resistant leukaemia cells. Flamigni F, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):783-9

Decreased C-MYC and BCL2 expression correlates with methylprednisolone-mediated inhibition of Raji lymphoma growth. Morris G, et al. **Biochem Mol Med** 1997 Apr; 60(2):108-15

The effect of starvation and ethanol on c-myc messenger RNA expression in the heart. Paice AG, et al. **Biochem Soc Trans** 1996 May;24(2):212S

Identification of processes that influence negative supercoiling in the human c-myc gene. Wölfl S, et al. **Biochim Biophys Acta** 1997 May 30;1352(2):213-21

Migration of cells with immunoglobulin/c-myc recombinations in lymphoid tissues of mice. Müller JR, et al. **Blood** 1997 Jan 1;89(1):291-6

Differentiation inhibitory factor nm23 as a new prognostic factor in acute monocytic leukemia. Yokoyama A, et al. **Blood** 1996 Nov 1;88(9):3555-61

The delay in rat liver regeneration by choline is associated to alteration in c-myc expression. Sesca E, et al. **Boll Soc Ital Biol Sper** 1996 Jul-Aug;72(7-8):217-22

Classical gene amplifications in human breast cancer are not associated with distant solid metastases. Driouch K, et al. **Br J Cancer** 1997;76(6):784-7

Transgenic mouse models in carcinogenesis: interaction of c-myc with transforming growth factor alpha and hepatocyte growth factor in hepatocarcinogenesis. Thorgeirsson SS, et al. **Br J Clin Pharmacol** 1996 Jul; 42(1):43-52

A possible role for human papillomaviruses and c-myc, c-Ha-ras, and p53 gene alterations in malignant cutaneous lesions from renal transplant recipients. Pelisson I, et al. **Cancer Detect Prev** 1996;20(1):20-30

c-myc amplification in a preleukemia patient with trisomy 4 and double minutes: review of the unique coexistence of these two chromosome abnormalities in acute myelogenous leukemia. Reddy KS, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):206-9 (10 ref.)

Differential expression of c-jun and c-myc in N-nitroso diethylamine-induced hepatic oncogenesis in AKR mice. Giri RK, et al. **Cancer Lett** 1996 Dec 3;109(1-2):121-7

Molecular analyses of liver tumors in c-myc transgenic mice and c-myc and TGF-alpha double transgenic mice. Ohgaki H, et al. **Cancer Lett** 1996 Aug 23;106(1):43-9

Modulation of c-Myc activity and apoptosis in vivo. Alarcon RM, et al. **Cancer Res** 1996 Oct 1;56(19):4315-9

Low-level c-myc amplification in human colonic carcinoma cell lines and tumors: a frequent, p53-independent mutation associated with improved outcome in a randomized multi-institutional trial. Augenlicht LH, et al. **Cancer Res** 1997 May 1;57(9):1769-75

Constitutive expression of mature transforming growth factor beta1 in the liver accelerates hepatocarcinogenesis in transgenic mice. Factor VM, et al. **Cancer Res** 1997 Jun 1;57(11):2089-95

Detection of c-myc oncogene amplification and chromosomal anomalies in metastatic prostatic carcinoma by fluorescence in situ hybridization. Jenkins RB, et al. **Cancer Res** 1997 Feb 1;57(3):524-31

Selective expression of one c-myc allele in two human myeloma cell lines. Kuehl WM, et al. **Cancer Res** 1996 Oct 1;56(19):4370-3

Oncostatin M-mediated transcriptional suppression of the c-myc gene in breast cancer cells. Spence MJ, et al. **Cancer Res** 1997 Jun 1;57(11):2223-8

Comparison of transformation by manganese sulfate and 5-azacytidine in Rat 6 cells overexpressing the c-myc oncogene. Hsiao WL, et al. **Carcinogenesis** 1996 Dec; 17(12):2771-7

Sensitivity to transforming growth factor beta 1-induced growth arrest is common in human squamous cell carcinoma cell lines: c-MYC down-regulation and p21waf1 induction are important early events. Malliri A, et al. **Cell Growth Differ** 1996 Oct;7(10):1291-304

Expression of memory, differentiation, and repression of c-myc and p53 genes in human RD/TE-671 cells induced by a ureido-derivative of pyridine (UDP-4). Pappas IS, et al. **Cell Growth Differ** 1996 Jun;7(6):797-809

Alterations of level of total genomic DNA methylation and pattern of c-myc, c-Ha-ras oncogene methylation in human gastric carcinogenesis. Fang J, et al. **Chin Med J (Engl)** 1996 Oct;109(10):787-91

Effect of emodin on c-myc proto-oncongen expression in cultured rat mesangial cells. Liu ZH, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):61-3

Protooncogene expression in osteogenesis induced by bone morphogenetic protein. Sakano S, et al. **Clin Orthop** 1997 May;(338):240-6

NM23/Nucleoside diphosphate kinase as a transcriptional activator of c-myc. Postel EH. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):233-52 (96 ref.)

Influence of c-myc on the progression of human breast cancer. Watson PH, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):267-83 (146 ref.)

Reassignment of MYCL1 to human chromosome 1p34.3 by fluorescence in situ hybridization. Speleman F, et al. **Cytogenet Cell Genet** 1996;72(2-3):189-90

The programmed cell death of an immature thymocyte cell line transgenic for an alpha beta TCR and the c-myc proto-oncogene. Murdjeva M, et al. **Dev Immunol** 1996; 4(4):279-88

Use of the polymerase chain reaction technique to determine c-myc expression in follicular center cell lymphoma. Wang J, et al. **Diagn Mol Pathol** 1996 Mar;5(1):20-5

The cloning and sequencing of an ovine c-myc cDNA. Kiermer V, et al. **DNA Seq** 1997;7(3-4):235-8

Targeted expression of MYCN causes neuroblastoma in transgenic mice. Weiss WA, et al. **EMBO J** 1997 Jun 2; 16(11):2985-95

Response to radiotherapy of human uterine cervix carcinoma is not correlated with rearrangements of the Hs-ras-1 and/or c-myc genes. Polischouk AG, et al. **Eur J Cancer** 1997 May;33(6):942-9

Separate domains of MBP-1 involved in c-myc promoter binding and growth suppressive activity. Ray RB, et al. **Gene** 1997 Feb 28;186(2):175-80

TATA box and Sp1 sites mediate the activation of c-myc promoter P1 by immunoglobulin kappa enhancers. Geltinger C, et al. **Gene Expr** 1996;6(2):113-27

The DDX1 gene maps within 400 kbp 5' to MYCN and is frequently coamplified in human neuroblastoma. Amler LC, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):134-7

TP53 and MYC gene alterations independently predict poor prognosis in breast cancer patients. Berns EM, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):170-9

Long-range chromatin analysis of the human MYC locus by pulsed-field gel electrophoresis. Mautner J, et al. **Genes Chromosomes Cancer** 1996 Aug;16(4):247-53

Immunoglobulin/Myc recombinations in murine Peyer's patch follicles. Müller JR, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):1-8

Molecular cytogenetic analysis of a nontumorigenic human breast epithelial cell line that eventually turns tumorigenic: validation of an analytical approach combining karyotyping, comparative genomic hybridization, chromosome painting, and single-locus fluorescence in situ hybridization. Nielsen KV, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):30-7

Amplification of a DEAD box gene (DDX1) with the MYCN gene in neuroblastomas as a result of cosegregation of sequences flanking the MYCN locus. Noguchi T, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):129-33

Evaluation of MYC and chromosome 8 copy number in breast carcinoma by interphase cytogenetics. Visscher DW, et al. **Genes Chromosomes Cancer** 1997 Jan;18(1):1-7

Induction of c-myc transcription by the v-Abl tyrosine kinase requires Ras, Raf1, and cyclin-dependent kinases. Zou X, et al. **Genes Dev** 1997 Mar 1;11(5):654-62

Hepatocarcinogenesis in woodchuck hepatitis virus/c-myc mice: sustained cell proliferation and biphasic activation of insulin-like growth factor II. Liu P, et al. **Hepatology** 1997 Apr;25(4):874-83

The mapping and visual ordering of the human syndecan-1 and N-myc genes near the telomeric region of chromosome 2p. Kaukonen J, et al. **Hum Genet** 1997 Mar;99(3):295-7

Lack of expression of c-myc oncogene in peripheral blood mononuclear cells of patients with active rheumatoid arthritis. Wanchu A, et al. **Indian J Med Res** 1996 Sep; 104:223-5

Pleiotropic over-expression of multidrug-resistance-related genes is correlated to MYCN and max mRNA accumulation during tumour progression in the IGR-N-91 human neuroblastoma model. Cappellen D, et al. **Int J Cancer** 1997 Feb 7;70(4):430-6

Polymerase chain reaction compared with dot blotting for the determination of N-myc gene amplification in neuroblastoma. de Cremoux P, et al. **Int J Cancer** 1997 Jul 29;72(3):518-21

Wild-type DNA sequence of the N-myc transactivation domain in human neuroblastoma [letter] Feng L, et al. **Int J Cancer** 1997 Jun 11;71(6):1116-7

Lack of correlation between c-myc expression and programmed or experimentally-induced cell death during chick limb development. Ros MA, et al. **Int J Dev Biol** 1995 Dec;39(6):1021-6

C-myc overexpression facilitates radiation-induced DHFR gene amplification. Lücke-Huhle C, et al. **Int J Radiat Biol** 1997 Feb;71(2):167-75

Control of the Myc-Max mediated transactivation in yeast by natural promoter elements. Hänel F, et al. **J Basic Microbiol** 1997;37(1):23-8

Mitochondrial and cytosolic branched-chain amino acid transaminases from yeast, homologs of the myc oncogene-regulated Eca39 protein. Kispal G, et al. **J Biol Chem** 1996 Oct 4;271(40):24458-64

A DNA-binding element for a steroid receptor-binding factor is flanked by dual nuclear matrix DNA attachment sites in the c-myc gene promoter. Lauber AH, et al. **J Biol Chem** 1997 Sep 26;272(39):24657-65

Protein kinase C-epsilon is necessary for erythropoietin's up-regulation of c-myc and for factor-dependent DNA synthesis. Evidence for discrete signals for growth and differentiation. Li Y, et al. **J Biol Chem** 1996 Oct 25; 271(43):27025-30

Nucleosomal structure of active and inactive c-myc genes. Pullner A, et al. **J Biol Chem** 1996 Dec 6;271(49):31452-7

Viral Myc oncoproteins in infected fibroblasts down-modulate thrombospondin-1, a possible tumor suppressor gene. Tikhonenko AT, et al. **J Biol Chem** 1996 Nov 29;271(48):30741-7

Distinct roles for MAX protein isoforms in proliferation and apoptosis. Zhang H, et al. **J Biol Chem** 1997 Jul 11; 272(28):17416-24

C-myc deregulation during transformation induction: involvement of 7SK RNA. Luo Y, et al. **J Cell Biochem** 1997 Feb;64(2):313-27

Aberrant expression and regulation of hepatic epidermal growth factor receptor in a c-myc transgenic mouse model. Woitach JT, et al. **J Cell Biochem** 1997 Mar 15;64(4):651-60

MYC family DNA amplification in 126 tumor cell lines from patients with small cell lung cancer. Johnson BE, et al. **J Cell Biochem Suppl** 1996;24:210-7

c-Myc inactivation by mutant Max alters growth and morphology of NCI-H-630 colon cancer cells. Borrè A, et al. **J Cell Physiol** 1996 Oct;169(1):200-8

Induction in human osteoblastic cells (SaOS2) of the early response genes fos, jun, and myc by the amino terminal fragment (ATF) of urokinase. Rabbani SA, et al. **J Cell Physiol** 1997 Aug;172(2):137-45

c-myc-Dependent hepatoma cell apoptosis results from oxidative stress and not a deficiency of growth factors. Xu Y, et al. **J Cell Physiol** 1997 Feb;170(2):192-9

Glucose deprivation-induced cytotoxicity in drug resistant human breast carcinoma MCF-7/ADR cells: role of c-myc and bcl-2 in apoptotic cell death. Lee YJ, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):681-6

A localisation signal in the 3' untranslated region of c-myc mRNA targets c-myc mRNA and beta-globin reporter sequences to the perinuclear cytoplasm and cytoskeletal-bound polysomes. Veyrune JL, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1185-94

Expression of the apoptosis-suppressing gene BCL-2 in pheochromocytoma is associated with the expression of C-MYC. Wang DG, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1949-52

Expression patterns of the c-myc gene in adrenocortical tumors and pheochromocytomas. Liu J, et al. **J Endocrinol** 1997 Feb;152(2):175-81

The expression of c-myc during follicular growth and luteal formation in the rat ovary in vivo. Piontkewitz Y, et al. **J Endocrinol** 1997 Mar;152(3):395-406

Studies on the hypomethylation of c-myc, c-Ha-ras oncogenes and histopathological changes in human gastric carcinoma. Fang JY, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1079-82

Insecticidal activity of a recombinant baculovirus containing an antisense c-myc fragment. Lee SY, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):273-81

The ABL-MYC retrovirus generates antigen-specific plasmacytomas by in vitro infection of activated B lymphocytes from spleen and other murine lymphoid organs. Largaespada DA, et al. **J Immunol Methods** 1996 Oct 16;197(1-2):85-95

Interleukin 4-induced proliferation in normal human keratinocytes is associated with c-myc gene expression and inhibited by genistein. Yang Y, et al. **J Invest Dermatol** 1996 Sep;107(3):367-72

Inhibition of cardiac myocyte division in c-myc transgenic mice. Machida N, et al. **J Mol Cell Cardiol** 1997 Jul; 29(7):1895-902

Genetic staging of unresectable or metastatic neuroblastoma in infants: a Pediatric Oncology Group study. Bowman LC, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):373-80

Olfactory neuronal cell lines generated by retroviral insertion of the n-myc oncogene display different developmental

phenotypes. MacDonald KP, et al. **J Neurosci Res** 1996 Aug 1;45(3):237–47
Inverse expression of mdr 1 and c-myc genes in a rhabdomyosarcoma cell line resistant to actinomycin d. Prados J, et al. **J Pathol** 1996 Sep;180(1):85–9
What is Burkitt's lymphoma? [editorial] Wright DH. **J Pathol** 1997 Jun;182(2):125–7
Exposure to magnetic field (5 mT at 60 Hz) does not affect cell growth and c-myc gene expression. Miyakoshi J, et al. **J Radiat Res (Tokyo)** 1996 Sep;37(3):185–91
Two transcription factors, E1AF and N-myc, correlate with the invasiveness of neuroblastoma cell lines. Taguchi K, et al. **Jpn J Cancer Res** 1997 Apr;88(4):394–400
Regulation of glucose transport by interleukin-3 in growth factor-dependent and oncogene-transformed bone marrow-derived cell lines. Ahmed N, et al. **Leuk Res** 1997 Jul;21(7):609–18
Bcl-2 and c-myc expression, cell cycle kinetics and apoptosis during the progression of chronic myelogenous leukemia from diagnosis to blastic phase. Handa H, et al. **Leuk Res** 1997 Jun;21(6):479–89
Cationic lipids reduce time and dose of c-myc antisense oligodeoxynucleotides required to specifically inhibit Burkitt's lymphoma cell growth. Williams SA, et al. **Leukemia** 1996 Dec;10(12):1980–9
Mouse USF1 gene cloning: comparative organization within the c-myc gene family. Henrion AA, et al. **Mamm Genome** 1996 Nov;7(11):803–9
Application of fluorescence in situ hybridization to detect N-myc (MYCN) gene amplification on paraffin-embedded tissue sections of neuroblastomas. Hachitanda Y, et al. **Med Pediatr Oncol** 1997 Aug;29(2):135–8
Structure of pp32, an acidic nuclear protein which inhibits oncogene-induced formation of transformed foci. Chen TH, et al. **Mol Biol Cell** 1996 Dec;7(12):2045–56
Upregulation of endogenous p53 and induction of in vivo apoptosis in B-lineage lymphomas of E(mu)-myc transgenic mice by deregulated c-myc transgene. Prasad VS, et al. **Mol Carcinog** 1997 Feb;18(2):66–77
Differential regulation of the N-myc proto-oncogene by ROR alpha and RVR, two orphan members of the superfamily of nuclear hormone receptors. Dussault I, et al. **Mol Cell Biol** 1997 Apr;17(4):1860–7
Induction of DNA replication by transcription in the region upstream of the human c-myc gene in a model replication system. Ohba R, et al. **Mol Cell Biol** 1996 Oct; 16(10):5754–63
Molecular and cellular responses to DNA damage in a murine pituitary adenoma cell line. Woloschak M, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):61–8
Residual clones in childhood leukemia [letter; comment] Rabkin CS, et al. **N Engl J Med** 1997 Jul 3;337(1):50–1. Comment on: N Engl J Med 1997 Jan 30;336(5):317–23.
Bipotent progenitor cell lines from the human CNS. Sah DW, et al. **Nat Biotechnol** 1997 Jun;15(6):574–80
Comparison of fluorescent in situ hybridization (FISH) and the polymerase chain reaction (PCR) for detection of residual neuroblastoma cells. Eckschlager T, et al. **Neoplasma** 1996;43(5):301–3
Temperature and salt dependence of higher order structure formation by antisense c-myc and c-myb phosphorothioate oligodeoxyribonucleotides containing tetraguanylate tracts. Basu S, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1327–32
In vivo generation of 3' and 5' truncated species in the process of c-myc mRNA decay. Ioannidis P, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4969–77
Structure of translation initiation region of c-myc mRNA and thermostability of the c-myc mRNA/antisense ODN complex. Tanaka T, et al. **Nucleic Acids Symp Ser** 1995; (34):135–6
Pim-2 transgene induces lymphoid tumors, exhibiting potent synergy with c-myc. Allen JD, et al. **Oncogene** 1997 Sep 4;15(10):1133–41
Rapid induction of B-cell lymphomas in mice carrying a human IgH/c-mycYAC. Bützler C, et al. **Oncogene** 1997 Mar 20;14(11):1383–8
Down-regulation of gadd153 by c-myc in rat fibroblasts and its effect on cell growth and radiation-induced apoptosis. Chen C, et al. **Oncogene** 1996 Oct 17;13(8):1659–65
Lack of class I HLA expression in neuroblastoma is associated with high N-myc expression and hypomethylation due to loss of the MEMO-1 locus. Cheng NC, et al. **Oncogene** 1996 Oct 17;13(8):1737–44
Cellular and viral trans-acting factors modulate N-myc2 promoter activity in woodchuck liver tumors. Flajolet M, et al. **Oncogene** 1997 Aug 28;15(9):1103–10
Transcriptional activation of the matrix metalloproteinase-9 gene in an H-ras and v-myc transformed rat embryo cell line. Himelstein BP, et al. **Oncogene** 1997 Apr 24; 14(16):1995–8
Concomitant down-regulation of expression of integrin subunits by N-myc in human neuroblastoma cells: differential regulation of alpha2, alpha3 and beta1. Judware R, et al. **Oncogene** 1997 Mar 20;14(11):1341–50
MAZ, a Myc-associated zinc finger protein, is essential for the ME1a1-mediated expression of the c-myc gene during neuroectodermal differentiation of P19 cells. Komatsu M, et al. **Oncogene** 1997 Sep 4;15(10):1123–31
Developmental regulation of CRD-BP, an RNA-binding protein that stabilizes c-myc mRNA in vitro. Leeds P, et al. **Oncogene** 1997 Mar 20;14(11):1279–86
In vivo regulation of single copy and amplified N-myc in human neuroblastoma cells. Lutz W, et al. **Oncogene** 1997 Jul 17;15(3):303–15
Chromosomal translocations deregulating c-myc are associated with normal immune responses. Roschke V, et al. **Oncogene** 1997 Jun 26;14(25):3011–6
The hepatitis B virus X gene potentiates c-myc-induced liver oncogenesis in transgenic mice. Terradillos O, et al. **Oncogene** 1997 Jan 30;14(4):395–404
c-myc activates RCC1 gene expression through E-box elements. Tsuneoka M, et al. **Oncogene** 1997 May 15; 14(19):2301–11
Contrasting effects of PNA invasion of the chimeric DMMYC gene on transcription of its myc and PVT domains. Boffa LC, et al. **Oncol Res** 1997;9(1):41–51
Host range restrictions of oncogenes: myc genes transform avian but not mammalian cells and mht/raf genes transform mammalian but not avian cells. Li R, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7522–7
c-myc activation renders proliferation of Epstein-Barr virus (EBV)-transformed cells independent of EBV nuclear antigen 2 and latent membrane protein 1. Polack A, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10411–6
Drosophila Myc is oncogenic in mammalian cells and plays a role in the diminutive phenotype. Schreiber-Agus N, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1235–40
c-Myc transactivation of LDH-A: implications for tumor metabolism and growth. Shim H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6658–63
Inhibition of DLX-7 homeobox gene causes decreased expression of GATA-1 and c-myc genes and apoptosis. Shimamoto T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3245–9
Antileukemia effect of c-myc N3'-->P5' phosphoramidate antisense oligonucleotides in vivo. Skorski T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3966–71
The interferon-inducible murine p48 (ISGF3gamma) gene is regulated by protooncogene c-myc. Weihua X, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7227–32
Myc-mediated apoptosis. Kuchino Y, et al. **Prog Mol Subcell Biol** 1996;16:104–29 (65 ref.)
3' untranslated regions of c-myc and c-fos mRNAs: multifunctional elements regulating mRNA translation, degradation and subcellular localization. Veyrune JL, et al. **Prog Mol Subcell Biol** 1997;18:35–63 (160 ref.)
Point mutations of the Mxil gene are rare in prostate cancers. Kawamata N, et al. **Prostate** 1996 Sep;29(3):191–3
Apoptosis in heat-induced cell killing: the protective role of hsp-70 and the sensitization effect of the c-myc gene. Li WX, et al. **Radiat Res** 1996 Mar;145(3):324–30
The influence of the oncogenes NRAS and MYC on the radiation sensitivity of cells of a human melanoma cell line. Pomp J, et al. **Radiat Res** 1996 Oct;146(4):374–81
Repression of c-myc transcription by Blimp-1, an inducer of terminal B cell differentiation. Lin Y, et al. **Science** 1997 Apr 25;276(5312):596–9
Myc target genes. Grandori C, et al. **Trends Biochem Sci** 1997 May;22(5):177–81 (51 ref.)
Inactivation of tumor suppressor genes and deregulation of the c-myc gene in urothelial cancer cell lines. Grimm MO, et al. **Urol Res** 1995;23(5):293–300
Transactivation of prothymosin alpha and c-myc promoters by human papillomavirus type 16 E6 protein. Kinoshita T, et al. **Virology** 1997 May 26;232(1):53–61
[Expression of c-myc gene and biosynthesis of biological macromolecules in antisense transfectant HLR60-9] Li Y, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):16–9 (Eng. Abstr.) **(Chi)**
[Analysis of DNA methylation pattern of c-myc oncogene in hepatocellular carcinoma] Xiao W, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):501–4 (Eng. Abstr.) **(Chi)**
[Inhibitory effects of malignant phenotype of human bladder cancer cell line by c-Ha-ras, c-myc antisense oligodeoxynucleotide] Li M, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):7–9 (Eng. Abstr.) **(Chi)**
[Influence of qingdai compound capsule (QDCC) on the expression of c-myc in psoriatic keratinocytes] Feng J, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):146–8 (Eng. Abstr.) **(Chi)**
[The construction of 2 BS cell lines overexpressing PKC beta I isoform and the priliminary analysis of the relationship between expression of PKC beta I and cell proliferation] Ling DH, et al. **Shih Yen Sheng Wu Hsueh Pao** 1996 Mar;29(1):33–7 (Eng. Abstr.) **(Chi)**
[Apoptosis induced by myc family genes] Kagaya S, et al. **Nippon Rinsho** 1996 Jul;54(7):1869–75 (22 ref.) (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Consensus-interferon and platelet-derived growth factor adversely regulate proliferation and migration of Kaposi's sarcoma cells by control of c-myc expression. Köster R, et al. **Am J Pathol** 1996 Dec;149(6):1871–85
Targeting c-myc in leukemia. Calabretta B, et al. **Anticancer Drug Des** 1997 Jul;12(5):373–81 (31 ref.)
In situ stimulation of topoisomerase II-induced cleavage sites in the c-myc protooncogene by antitumor agent pMC540 is associated with gene expression. Sharma R, et al. **Anticancer Drugs** 1996 May;7(3):293–8
Carcinogen-induced de novo methylation in c-myc exon I. Okada G, et al. **Jpn J Med Sci Biol** 1996 Oct-Dec; 49(5–6):209–18
Effects of unsaturated fatty acids on expression of early response genes in human T lymphocytes. Williams WV, et al. **Pathobiology** 1996;64(1):27–31

GENETICS

Interference with c-myc expression and RB phosphorylation during TNF-mediated growth arrest in human endothelial cells. López-Marure R, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):819–24
Transcriptional activation of the human c-myc gene by simian virus 40 large T antigen without binding to p53 and RB proteins in the transient expression system. Shimazu T, et al. **Biochem Biophys Res Commun** 1997 Jun 9; 235(1):153–7
Steroidogenic factor-1 expression is transiently repressed and c-myc expression and deoxyribonucleic acid synthesis are induced in rat granulosa cells during the periovulatory period. Agarwal P, et al. **Biol Reprod** 1996 Dec; 55(6):1271–5
MYCL genotypes and loss of heterozygosity in non-small-cell lung cancer. Fong KM, et al. **Br J Cancer** 1996 Dec;74(12):1975–8
Ribozyme-mediated suppression of v-myc expression abrogates apoptosis in transformed monocytes. Dolnikov A, et al. **Cancer Gene Ther** 1996 Sep-Oct;3(5):289–95
Investigation of c-myc and K-ras amplification in renal clear cell adenocarcinoma. Kozma L, et al. **Cancer Lett** 1997 Jan 1;111(1–2):127–31
Absence of functional CD44 hyaluronan receptor on human NMYC-amplified neuroblastoma cells. Gross N, et al. **Cancer Res** 1997 Apr 1;57(7):1387–93
Cell-substratum interactions mediate oncogene-induced phenotype of lung cancer cells. Barr LF, et al. **Cell Growth Differ** 1996 Sep;7(9):1149–56
Large induction of c-Myc is not essential for the mitogenic response of Swiss 3T3 fibroblasts. Mehmet H, et al. **Cell Growth Differ** 1997 Feb;8(2):187–93
Overexpression of c-myc gene without gene amplification in human hepatocellular carcinoma. Wu B, et al. **Chin Med J (Engl)** 1996 Dec;109(12):922–5
Conservation of p58 and c-myc protooncogene sequences in the great apes. Samonte RV, et al. **Chromosome Res** 1996 Jun;4(4):321–2
Simultaneous detection of genetic and immunological markers in non-small cell lung cancer: prediction of metastatic potential of tumor. Zborovskaya I, et al. **Clin Exp Metastasis** 1996 Nov;14(6):490–500
In-111 pentetreotide scintigraphy in patients with neuroblastoma. Comparison with I-131 MIBG, N-Myc oncogene amplification, and patient outcome. Shalaby-Rana E, et al. **Clin Nucl Med** 1997 May; 22(5):315–9
Analysis of ornithine decarboxylase messenger ribonucleic acid expression in colorectal carcinoma. Mimori K, et al. **Dis Colon Rectum** 1997 Sep;40(9):1095–100
Abnormal c-myc oncogene DNA methylation in human bladder cancer: possible role in tumor progression. Sardi I, et al. **Eur Urol** 1997;31(2):224–30
Myc: a single gene controls both proliferation and apoptosis in mammalian cells. Desbarats L, et al. **Experientia** 1996 Dec 15;52(12):1123–9 (51 ref.)
The human gene ZFP161 on 18p11.21-pter encodes a putative c-myc repressor and is homologous to murine Zfp161 (Chr 17) and Zfp161-rs1 (X Chr). Sobek-Klocke I, et al. **Genomics** 1997 Jul 15;43(2):156–64
Double minute chromosomes contain amplified c-myc oncogene sequences in acute myeloid leukemia. Mohamed AN, et al. **Hematopathol Mol Hematol** 1996;10(4):193–9
Histological progression of follicular lymphoma associated with p53 mutation and rearrangement of the C-MYC gene. Takimoto Y, et al. **Hiroshima J Med Sci** 1996 Jun; 45(2):69–73
Distribution and configuration of c-myc RNA during transcriptional attenuation in differentiating cells in-situ. Bains MA, et al. **Histochem Cell Biol** 1997 Mar; 107(3):259–63
Introduction of a myc reporter tag to improve the quality of mutation detection using the protein truncation test. Rowan AJ, et al. **Hum Mutat** 1997;9(2):172–6
Antigen Ki-67 and c-myc oncogene as related to histoclinical parameters in pigmented skin lesions. Korabiowska M, et al. **In Vivo** 1995 Sep-Oct;9(5):433–8
c-myc amplification in pre-malignant and malignant lesions induced in rat liver by the resistant hepatocyte model. Pascale RM, et al. **Int J Cancer** 1996 Sep 27;68(1):136–42
N-Myc gene amplification is a major prognostic factor in localized neuroblastoma: results of the French NBL 90 study. Neuroblastoma Study Group of the Société Francaise d'Oncologie Pédiatrique. Rubie H, et al. **J Clin Oncol** 1997 Mar;15(3):1171–82
MYCN oncogene amplification in neuroblastoma is associated with worse prognosis, except in stage 4s: the Italian experience with 295 children. Tonini GP, et al. **J Clin Oncol** 1997 Jan;15(1):85–93
Cognate T cell help for CD40-deficient B cells induces c-myc RNA expression, but DNA synthesis requires an additional signal through surface Ig. Schrader CE, et al. **J Immunol** 1997 Jan 1;158(1):153–62
N-myc amplification and its relationship to experimental therapy. Livingstone A, et al. **J Neurooncol** 1997 Jan;

31(1-2):33-9
c-myc gene abnormalities in mucosa-associated lymphoid tissue (MALT) lymphomas. Peng H, et al. **J Pathol** 1997 Apr;181(4):381-6
Analysis of L-myc and GSTM1 genotypes in Chinese non-small cell lung carcinoma patients. Ge H, et al. **Lung Cancer** 1996 Nov;15(3):355-66
Concomitant p53 mutation and MYCN amplification in neuroblastoma. Manhani R, et al. **Med Pediatr Oncol** 1997 Sep;29(3):206-7
Quantitation of HER-2/neu and c-myc gene amplification in breast carcinoma using fluorescence in situ hybridization. Persons DL, et al. **Mod Pathol** 1997 Jul;10(7):720-7
Immunocytochemical detection of enhanced expression of c-myc protein in the heart of cardiomyopathic hamster. Fujitani N, et al. **Mol Cell Biochem** 1997 Apr;169(1-2):73-8
Nucleosomal structures of c-myc promoters with transcriptionally engaged RNA polymerase II. Albert T, et al. **Mol Cell Biol** 1997 Aug;17(8):4363-71
Myc versus USF: discrimination at the cad gene is determined by core promoter elements. Boyd KE, et al. **Mol Cell Biol** 1997 May;17(5):2529-37
The Myc negative autoregulation mechanism requires Myc-Max association and involves the c-myc P2 minimal promoter. Facchini LM, et al. **Mol Cell Biol** 1997 Jan; 17(1):100-14
Concomitant downregulation of IgH 3'enhancer activity and c-myc expression in a plasmacytoma x fibroblast environment: implications for dysregulation of translocated c-myc. Thøger Andersen AS, et al. **Mol Immunol** 1997 Feb;34(2):97-107
Expression of myc-family, myc-interacting, and myc-target genes during preimplantation mouse development. Domashenko AD, et al. **Mol Reprod Dev** 1997 May; 47(1):57-65
The amplicons in HL60 cells contain novel cellular sequences linked to MYC locus DNA. Feo S, et al. **Oncogene** 1996 Oct 3;13(7):1521-9
Physical mapping of the DDX1 gene to 340 kb 5' of MYCN. Kuroda H, et al. **Oncogene** 1996 Oct 3;13(7):1561-5
Overexpression and amplification of c-myc during progression of human colorectal cancer. Rochlitz CF, et al. **Oncology** 1996 Nov-Dec;53(6):448-54
Effects of unsaturated fatty acids on expression of early response genes in human T lymphocytes. Williams WV, et al. **Pathobiology** 1996;64(1):27-31
Proviral insertions induce the expression of bone-specific isoforms of PEBP2alphaA (CBFA1): evidence for a new myc collaborating oncogene. Stewart M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8646-51
High-level expression of H-ras and c-myc oncogenes in mycoplasma-mediated malignant cell transformation. Zhang B, et al. **Proc Soc Exp Biol Med** 1997 Apr; 214(4):359-66
DNA ploidy and MYC DNA amplification in ovarian carcinomas. Correlation with p53 and bcl-2 expression, proliferative activity and prognosis. Diebold J, et al. **Virchows Arch** 1996 Nov;429(4-5):221-7
[Oncogen N-myc expression and measurement of DNA ploidy in neuroblastoma: a double staining flow cytometric analysis] Chassevent A, et al. **Bull Cancer** 1997 Mar; 84(3):29-34 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Development and characterization of v-myc/v-raf-transformed murine fetal thymocyte cell lines. Taubenberger JK, et al. **Cell Immunol** 1996 Jul 10; 171(1):41-7
STAM, signal transducing adaptor molecule, is associated with Janus kinases and involved in signaling for cell growth and c-myc induction. Takeshita T, et al. **Immunity** 1997 Apr;6(4):449-57
Lymphoblastoid cells transfected with c-myc: downregulation of EBV-lytic antigens and impaired response of autologous CD4+ T cells in vitro. Fais F, et al. **Int J Cancer** 1996 Dec 11;68(6):810-6
Down-modulation of c-myc expression induces apoptosis of B lymphocyte models of tolerance via clonal deletion. Sonenshein GE. **J Immunol** 1997 Mar 1;158(5):1994-7

PHYSIOLOGY

Polyamines modulate transcription but not posttranscription of c-myc and c-jun in IEC-6 cells. Patel AR, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C1020-9
Folic acid-polylysine carrier improves efficacy of c-myc antisense oligodeoxynucleotides on human melanoma (M14) cells. Ginobbi P, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):29-35
Induction of pgp3 expression and reversion of the multidrug resistance phenotype in 9-OH-ellipticine-resistant Chinese hamster lung fibroblasts transfected with the MYC oncogene. Delaporte C, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):59-66
Downregulation of c-myc expression after heat shock in human B-cell lines is independent of 5' mRNA sequences. Wennborg A, et al. **Biol Chem Hoppe Seyler** 1995 Nov; 376(11):671-80
Differential regulation of cell cycle characteristics and apoptosis in MMTV-myc and MMTV-ras mouse mammary tumors. Hundley JE, et al. **Cancer Res** 1997 Feb 15;57(4):600-3
Phenobarbital causes apoptosis in conditionally immortalized mouse hepatocytes depending on deregulated c-myc expression: characterization of an unexpected effect. Osanai M, et al. **Cancer Res** 1997 Jul 15;57(14):2896-903
Oncostatin M-specific receptor mediates inhibition of breast cancer cell growth and down-regulation of the c-myc proto-oncogene. Liu J, et al. **Cell Growth Differ** 1997 Jun; 8(6):667-76
Regulation of Myc-dependent apoptosis by p53, c-Jun N-terminal kinases/stress-activated protein kinases, and Mdm-2. Yu K, et al. **Cell Growth Differ** 1997 Jul; 8(7):731-42
Modulation of N-myc expression alters the invasiveness of neuroblastoma. Goodman LA, et al. **Clin Exp Metastasis** 1997 Mar;15(2):130-9
N-myc over-expression downregulates alpha3beta1 integrin expression in human Saos-2 osteosarcoma cells. Judware R, et al. **Clin Exp Metastasis** 1997 May;15(3):228-38
Contiguous four-guanosine sequence in c-myc antisense phosphorothioate oligonucleotides inhibits cell growth on human lung cancer cells: possible involvement of cell adhesion inhibition. Saijo Y, et al. **Jpn J Cancer Res** 1997 Jan;88(1):26-33
Activation of c-myc gene mediates the mitogenic effects of oxalate in LLC-PK1 cells, a line of renal epithelial cells. Koul H, et al. **Kidney Int** 1996 Nov;50(5):1525-30
Mutual requirement of CDK4 and Myc in malignant transformation: evidence for cyclin D1/CDK4 and p16INK4A as upstream regulators of Myc. Haas K, et al. **Oncogene** 1997 Jul 10;15(2):179-92
Myc activation of cyclin E/Cdk2 kinase involves induction of cyclin E gene transcription and inhibition of p27(Kip1) binding to newly formed complexes. Pérez-Roger I, et al. **Oncogene** 1997 May 22;14(20):2373-81
Activation of c-Myc uncouples DNA replication from activation of G1-cyclin-dependent kinases. Pusch O, et al. **Oncogene** 1997 Aug 7;15(6):649-56

GENES, NEF

Production of doughnut-shaped, protease-defective particles from a human T cell clone carrying a provirus with specific mutations in the env, pol, vpr, and nef genes. Bahmani MK, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10; 13(6):523-6
Mutations in the vpu, env, and nef genes of a syncytium-inducing variant of HIV type 1 JR-CSF that infects a range of T cell lines. Klasse PJ, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):347-50
The nef gene from a long-term HIV type 1 nonprogressor. Premkumar DR, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):337-45
Growth dominance of a revertant virus generated during in vitro serial passage of nef frameshift mutant of HIV-1. Fujinaga K, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):96-101
Upregulation of Fas ligand by simian immunodeficiency virus - a nef-arious mechanism of immune evasion? Johnson RP. **J Exp Med** 1997 Jul 7;186(1):1-5 (50 ref.)
Dynamics of viral variants in HIV-1 Nef and specific cytotoxic T lymphocytes in vivo. Haas G, et al. **J Immunol** 1996 Nov 1;157(9):4212-21
The immunopathogenesis of retroviral diseases: no immunophenotypic alterations in T, B, and NK cell subsets in SIVmac239-challenged rhesus macaques protected by SIV delta nef vaccination. Giorgi JV, et al. **J Med Primatol** 1996 Jun;25(3):186-91
Nef association with human immunodeficiency virus type 1 virions and cleavage by the viral protease. Bukovsky AA, et al. **J Virol** 1997 Feb;71(2):1013-8
High frequency of defective nef alleles in a long-term survivor with nonprogressive human immunodeficiency virus type 1 infection. Mariani R, et al. **J Virol** 1996 Nov; 70(11):7752-64
Genetic drift can dominate short-term human immunodeficiency virus type 1 nef quasispecies evolution in vivo. Plikat U, et al. **J Virol** 1997 Jun;71(6):4233-40
Association of simian immunodeficiency virus Nef with cellular serine/threonine kinases is dispensable for the development of AIDS in rhesus macaques. Lang SM, et al. **Nat Med** 1997 Aug;3(8):860-5
Vaccine effect using a live attenuated nef-deficient simian immunodeficiency virus of African green monkeys in the absence of detectable vaccine virus replication in vivo. Beer B, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4062-7
The role of NEF in the primate Lentivirus life cycle. Proceedings of the 5th Forum in Virology. **Res Virol** 1997 Jan-Feb;148(1):21-81
Towards a consensus for a role of Nef in both viral replication and immunomodulation? Collette Y. **Res Virol** 1997 Jan-Feb;148(1):23-30 (43 ref.)
The positive influence of Nef on viral infectivity. Guatelli JC. **Res Virol** 1997 Jan-Feb;148(1):34-7 (34 ref.)
Analysis of Nef-induced MHC-I endocytosis. Le Gall S, et al. **Res Virol** 1997 Jan-Feb;148(1):43-7 (40 ref.)
The nef gene of human immunodeficiency virus type-1 (HIV1) is required for optimal virus replication in fully activated primary T lymphocytes. Vicenzi E, et al. **Res Virol** 1997 Jan-Feb;148(1):38-43
A clearer distinction between HIV-1 paired isolates from peripheral blood mononuclear cells of asymptomatic carriers with and without CD8+ T-cells at nef rather than env V3 loci. Zhong Q, et al. **Vaccine** 1997 Apr; 15(5):497-510
Identification of regions in HIV-1 Nef required for efficient downregulation of cell surface CD4. Hua J, et al. **Virology** 1997 May 12;231(2):231-8
Sequence heterogeneity of Nef transcripts in HIV-1-infected subjects at different stages of disease. Ratner L, et al. **Virology** 1996 Sep 1;223(1):245-50
Elucidation of an HIV-1 transmission from mother to child in west Africa by sequence analysis. Kasper P, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):307-17

GENETICS

Region-specific changes, gene duplications, and random deletions in the nef gene from HIV type 1-infected brain tissues and blood of a demented patient. Saksena NK, et al. **AIDS Res Hum Retroviruses** 1997 Jan 1;13(1):111-6
RNA and DNA sequence analysis of the nef gene of HIV type 1 strains from the first HIV type 1-infected long-term nonprogressing mother-child pair. Saksena NK, et al. **AIDS Res Hum Retroviruses** 1997 May 20;13(8):729-32
An HIV-1 infected long-term non-progressor (LTNP): molecular analysis of HIV-1 strains in the vpr and nef genes. Saksena NK, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):848-54
Expression of HIV-1 nef decreases basal phosphatidyl-inositol 3-kinase activity. Garcia A. **C R Acad Sci III** 1997 Jun;320(6):505-8
Amplification of T-cell and antibody responses in DNA-based immunization with HIV-1 Nef by co-injection with a GM-CSF expression vector. Svanholm C, et al. **Scand J Immunol** 1997 Sep;46(3):298-303

PHYSIOLOGY

A role for natural simian immunodeficiency virus and human immunodeficiency virus type 1 nef alleles in lymphocyte activation. Alexander L, et al. **J Virol** 1997 Aug; 71(8):6094-9
Deletion of nef slows but does not prevent CD4-positive T-cell depletion in human immunodeficiency virus type 1-infected human-PBL-SCID mice. Gulizia RJ, et al. **J Virol** 1997 May;71(5):4161-4
Human immunodeficiency virus type 1 Nef does not alter T-cell sensitivity to antigen-specific stimulation. Page KA, et al. **J Virol** 1997 May;71(5):3776-87

GENES, NEU see **GENES, ERBB-2**

GENES, NEUROFIBROMATOSIS 1

A potential role for NF1 mRNA editing in the pathogenesis of NF1 tumors [see comments] Cappione AJ, et al. **Am J Hum Genet** 1997 Feb;60(2):305-12. Comment in: Am J Hum Genet 1997 Feb;60(2):278-83.
Characterization of six mutations in exon 37 of neurofibromatosis type 1 gene. Upadhyaya M, et al. **Am J Med Genet** 1996 Jul 26;67(4):421-3
Deletion of the entire NF1 gene causing distinct manifestations in a family. Wu BL, et al. **Am J Med Genet** 1997 Mar 3;69(1):98-101
Clinical application of genetic polymorphism in neurofibromatosis type 1. Clementi M, et al. **Ann Genet** 1996;39(2):92-6
Clonal origin of tumor cells in a plexiform neurofibroma with LOH in NF1 intron 38 and in dermal neurofibromas without LOH of the NF1 gene. Däschner K, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):346-50
Evidence for the presence of the second allele of the neurofibromatosis type 1 gene in melanocytes derived from café au laitmacules of NF1 patients. Eisenbarth I, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):138-41
Patterns of hematopoietic lineage involvement in children with neurofibromatosis type 1 and malignant myeloid disorders. Miles DK, et al. **Blood** 1996 Dec 1; 88(11):4314-20
Homozygous deletion of the neurofibromatosis-1 gene in the tumor of a patient with neuroblastoma. Martinsson T, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):183-9
NF1 mRNA isoform expression in PC12 cells: modulation by extrinsic factors. Metheny LJ, et al. **Exp Cell Res** 1996 Oct 10;228(1):44-9
Characterization and significance of nine novel mutations in exon 16 of the neurofibromatosis type 1 (NF1) gene. Maynard J, et al. **Hum Genet** 1997 May;99(5):674-6
Mutational and functional analysis of the neurofibromatosis type 1 (NF1) gene. Upadhyaya M, et al. **Hum Genet** 1997 Jan;99(1):88-92
NF1 mutation analysis using a combined heteroduplex/SSCP approach. Abernathy CR, et al. **Hum Mutat** 1997; 9(6):548-54
Deletions spanning the neurofibromatosis type 1 gene: implications for genotype-phenotype correlations in neurofibromatosis type 1? Cnossen MH, et al. **Hum Mutat** 1997;9(5):458-64
A five-basepair deletion (7118 delTTTTA) identified within neurofibromatosis (NF1) exon 39. Rodenhiser DI, et al. **Hum Mutat** 1997;9(5):473
Neurofibromatosis type I gene mutation in a patient with features of LEOPARD syndrome. Wu R, et al. **Hum Mutat** 1996;8(1):51-6
A cytogenetic deletion, del(17)(q11.22q21.1), in a patient with

sporadic neurofibromatosis type 1 (NF1) associated with dysmorphism and developmental delay. Upadhyaya M, et al. **J Med Genet** 1996 Feb;33(2):148–52

Comparison of insertion rate of L1 retroposon into intron 30 of the neurofibromatosis type 1 gene in seven Asian and Pacific populations. Shirakawa T, et al. **Jpn J Hum Genet** 1996 Mar;41(1):209–14

Genetic aberrations in the development and subsequent progression of myelodysplastic syndrome. Misawa S, et al. **Leukemia** 1997 Apr;11 Suppl 3:533–5

Rapid identification of RT-PCR clones containing translation-terminating mutations. Binnie CG, et al. **Mutat Res** 1997 Jan 15;388(1):21–6

Homonucleotide tracts, short repeats and CpG/CpNpG motifs are frequent sites for heterogeneous mutations in the neurofibromatosis type 1 (NF1) tumour-suppressor gene. Rodenhiser DI, et al. **Mutat Res** 1997 Feb 3; 373(2):185–95

Expression of the neurofibromatosis I gene product, neurofibromin, in blood vessel endothelial cells and smooth muscle. Norton KK, et al. **Neurobiol Dis** 1995 Feb; 2(1):13–21

Expression of a developmentally-regulated neuron-specific isoform of the neurofibromatosis 1 (NF1) gene. Geist RT, et al. **Neurosci Lett** 1996 Jun 21;211(2):85–8

[Von Recklinghausen's disease: experimental models and comparative aspects] Turusov VS, et al. **Arkh Patol** 1996 Sep-Oct;58(5):3–13 (52 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

Confirmation of a double-hit model for the NF1 gene in benign neurofibromas. Serra E, et al. **Am J Hum Genet** 1997 Sep;61(3):512–9

Three novel mutations of the NF1 gene detected by temperature gradient gel electrophoresis of exons 5 and 8. Horn D, et al. **Electrophoresis** 1996 Oct;17(10):1559–63

Scanning the first part of the neurofibromatosis type 1 gene by RNA-SSCP: identification of three novel mutations and of two new polymorphisms. Gasparini P, et al. **Hum Genet** 1996 Apr;97(4):492–5

Sex differences in mutational rate and mutational mechanism in the NF1 gene in neurofibromatosis type 1 patients. Lázaro C, et al. **Hum Genet** 1996 Dec;98(6):696–9

Characterization of a cytogenetic 17q11.2 deletion in an NF1 patient with a contiguous gene syndrome. Riva P, et al. **Hum Genet** 1996 Dec;98(6):646–50

New evidence for a mutation hotspot in exon 37 of the NF1 gene. Böddrich A, et al. **Hum Mutat** 1997;9(4):374–7

Novel and recurrent mutations in the neurofibromatosis type 1 (NF1) gene. Hudson J, et al. **Hum Mutat** 1997;9(4):366–7

Hereditary spinal neurofibromatosis: a rare form of NF1? Poyhonen M, et al. **J Med Genet** 1997 Mar;34(3):184–7

Molecular genetics of neurofibromatosis type 1 (NF1). Shen MH, et al. **J Med Genet** 1996 Jan;33(1):2–17 (216 ref.)

Linkage disequilibrium between four intragenic polymorphic microsatellites of the NF1 gene and its implications for genetic counselling. Valero MC, et al. **J Med Genet** 1996 Jul;33(7):590–3

Increased expression of the neurofibromatosis 1 (NF1) gene product, neurofibromin, in astrocytes in response to cerebral ischemia. Giordano MJ, et al. **J Neurosci Res** 1996 Jan 15;43(2):246–53

A multiplex-PCR test for EVI2A and EVI2B polymorphisms within the human NF1 gene. Rassmussen SA, et al. **Mamm Genome** 1996 Mar;7(3):233–4

PHYSIOLOGY

Expression of the neurofibromatosis 1 (NF1) gene during growth arrest. Norton KK, et al. **Neuroreport** 1996 Jan 31;7(2):601–4

Nf1 gene targeting: toward models and mechanisms. Cichowski K, et al. **Semin Cancer Biol** 1996 Oct;7(5):291–8 (52 ref.)

GENES, NEUROFIBROMATOSIS 2

Neurofibromatosis 2: loss of merlin's protective spell. Gusella JF, et al. **Curr Opin Genet Dev** 1996 Feb;6(1):87–92 (65 ref.)

The Nf2 tumor suppressor gene product is essential for extraembryonic development immediately prior to gastrulation. McClatchey AI, et al. **Genes Dev** 1997 May 15;11(10):1253–65

Isolation of mutations in the Drosophila homologues of the human Neurofibromatosis 2 and yeast CDC42 genes using a simple and efficient reverse-genetic method. Fehon RG, et al. **Genetics** 1997 May;146(1):245–52

Mutational analysis and expression studies of the neurofibromatosis type 2 (NF2) gene in a patient with a ring chromosome 22 and NF2. Kehrer-Sawatzki H, et al. **Hum Genet** 1997 Jul;100(1):67–74

Identification of NF2 germ-line mutations and comparison with neurofibromatosis 2 phenotypes [published erratum appears in Hum Genet 1997 Feb;99(2):292] Kluwe L, et al. **Hum Genet** 1996 Nov;98(5):534–8

Expression of NF2-encoded merlin and related ERM family proteins in the human central nervous system. Stemmer-Rachamimov AO, et al. **J Neuropathol Exp Neurol** 1997 Jun;56(6):735–42

Expression of the neurofibromatosis 2 tumor suppressor gene product, merlin, in Schwann cells. Scherer SS, et al. **J Neurosci Res** 1996 Dec 1;46(5):595–605

Clonality of multiple meningiomas. Stangl AP, et al. **J Neurosurg** 1997 May;86(5):853–8

Expression of NF2 gene product merlin in arachnoid villi and meningiomas. Sakuda K, et al. **Noshuyo Byori** 1996 Nov;13(2):145–8

[Neurofibromatosis type 2 (NF2)] Araki N, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1427–31 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Von Recklinghausen's disease: experimental models and comparative aspects] Turusov VS, et al. **Arkh Patol** 1996 Sep-Oct;58(5):3–13 (52 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

Phenotypic variability in monozygotic twins with neurofibromatosis 2. Baser ME, et al. **Am J Med Genet** 1996 Sep 6;64(4):563–7

A point mutation associated with a severe phenotype of neurofibromatosis 2. MacCollin M, et al. **Ann Neurol** 1996 Sep;40(3):440–5 (29 ref.)

Loss of heterozygosity on chromosome 22 in human gliomas does not inactivate the neurofibromatosis type 2 gene. Watkins D, et al. **Cancer Genet Cytogenet** 1996 Nov; 92(1):73–8

Frequency and distribution of NF2 mutations in schwannomas. Jacoby LB, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):45–55

Neurofibromatosis type 2 in an adolescent boy with polyneuropathy and a mutation in the NF2 gene [letter] Overweg-Plandsoen WC, et al. **J Neurol** 1996 Oct; 243(10):724–6

A missense mutation in the neurofibromatosis 2 gene occurs in patients with mild and severe phenotypes. Scoles DR, et al. **Neurology** 1996 Aug;47(2):544–6

Frequent type 2 neurofibromatosis gene transcript mutations in sporadic intramedullary spinal cord ependymomas. Birch BD, et al. **Neurosurgery** 1996 Jul;39(1):135–40

Reduced expression of schwannomin/merlin in human sporadic meningiomas. Lee JH, et al. **Neurosurgery** 1997 Mar;40(3):578–87

Neurofibromatosis type 2: a new mechanism of tumor suppression. Lutchman M, et al. **Trends Neurosci** 1996 Sep; 19(9):373–7

GENES, NF1 see **GENES, NEUROFIBROMATOSIS 1**

GENES, NF2 see **GENES, NEUROFIBROMATOSIS 2**

GENES, NIF see **GENES, NITROGEN FIXATION**

GENES, NITROGEN FIXATION

Cloning and sequencing of the nitrogenase structural genes nifHDK of Herbaspirillum seropedicae. Machado IM, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1599–602

Genetic analysis of the Rhizobium meliloti nifH promoter, using the P22 challenge phage system. Ashraf SI, et al. **J Bacteriol** 1997 Apr;179(7):2356–62

Transcriptional and translational regulation of nitrogenase in light-dark- and continuous-light-grown cultures of the unicellular cyanobacterium Cyanothece sp. strain ATCC 51142. Colón-López MS, et al. **J Bacteriol** 1997 Jul; 179(13):4319–27

Mechanism of coordinated synthesis of the antagonistic regulatory proteins NifL and NifA of Klebsiella pneumoniae. Govantes F, et al. **J Bacteriol** 1996 Dec; 178(23):6817–23

Nitrogenase phylogeny and the molybdenum dependence of nitrogen fixation in Methanococcus maripaludis. Kessler PS, et al. **J Bacteriol** 1997 Jan;179(2):541–3

Identification and characterization of the nifV-nifZ-nifT gene region from the filamentous cyanobacterium Anabaena sp. strain PCC 7120. Stricker O, et al. **J Bacteriol** 1997 May;179(9):2930–7

Characterization of genes for a second Mo-dependent nitrogenase in the cyanobacterium Anabaena variabilis. Thiel T, et al. **J Bacteriol** 1997 Aug;179(16):5222–5

Phylogeny of cyanobacterial nifH genes: evolutionary implications and potential applications to natural assemblages. Zehr JP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1443–50

Characterization and mutational analysis of nodHPQ genes of Rhizobium sp. strain N33. Cloutler J, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):720–8

Transcriptional regulation in Archaea: in vivo demonstration of a repressor binding site in a methanogen. Cohen-Kupiec R, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1316–20

Methanococcus genome [letter; comment] Haselkorn R, et al. **Science** 1996 Nov 8;274(5289):901–2; discussion 902–3 . Comment on: Science 1996 Aug 23;273(5278):1058–73.

Environmental regulation of rhizobial symbiotic nitrogen fixation genes. Fischer HM. **Trends Microbiol** 1996 Aug; 4(8):317–20 (27 ref.)

[The Rhizobium leguminosarum bv viciae VF39 pssB gene product participates in symbiotic fixation of molecular nitrogen] Ivashina TV, et al. **Dokl Akad Nauk** 1996 Oct; 350(5):712–5 **(Rus)**

PHYSIOLOGY

The nodulation gene nolK of Azorhizobium caulinodans is involved in the formation of GDP-fucose from GDP-mannose. Mergaert P, et al. **FEBS Lett** 1997 Jun 9;409(2):312–6

GENES, NITROGEN REGULATOR see **GENES, NITROGEN FIXATION**

GENES, NTR see **GENES, NITROGEN FIXATION**

GENES, OVERLAPPING

A rare type of overlapping genes in bacteriophage T4: gene 30.3' is completely embedded within gene 30.3 by one position downstream. Zajanckauskaite A, et al. **Gene** 1997 Jul 31;194(2):157–62

cDNA cloning and chromosomal localization of the genes encoding the alpha- and beta-subunits of human Rab geranylgeranyl transferase: the 3' end of the alpha-subunit gene overlaps with the transglutaminase 1 gene promoter. van Bokhoven H, et al. **Genomics** 1996 Dec 1;38(2):133–40

Unusual genome organisation in Entamoeba histolytica leads to two overlapping transcripts. Gangopadhyay SS, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):73–83

Differential regulation of multiple overlapping promoters in flagellar class II operons in Escherichia coli. Liu X, et al. **Mol Microbiol** 1996 Aug;21(3):613–20

Overlaps and parallels in the regulation of intrinsic multiple-antibiotic resistance in Escherichia coli. Miller PF, et al. **Mol Microbiol** 1996 Aug;21(3):441–8 (38 ref.)

GENETICS

Alternate promoters and alternate splicing of human tenascin-X, a gene with 5'and 3'ends buried in other genes. Speek M, et al. **Hum Mol Genet** 1996 Nov;5(11):1749–58

Constrained evolution with respect to gene overlap of hepatitis B virus. Mizokami M, et al. **J Mol Evol** 1997;44 Suppl 1:S83–90

Tobamovirus evolution: gene overlaps, recombination, and taxonomic implications. Lartey RT, et al. **Mol Biol Evol** 1996 Dec;13(10):1327–38

Generation of overlapping open reading frames [letter] Cebrat S, et al. **Trends Genet** 1996 Jan;12(1):12

GENES, P53

see related
PROTEIN P53

Cytologic changes in two cervical carcinoma cell lines after transfection of the wild-type p53 gene. Iwasaka T, et al. **Acta Obstet Gynecol Scand** 1996 Oct;75(9):797–803

Overview on human breast cancer with focus on prognostic and predictive factors with special attention on the tumour suppressor gene p53. Norberg T, et al. **Acta Oncol** 1996; 35 Suppl 5:96–102 (60 ref.)

p53: functions, mutations and sarcomas. Hung J, et al. **Acta Orthop Scand Suppl** 1997 Feb;273:68–73 (65 ref.)

Increased radiosensitivity is associated with p53 mutations in cell lines derived from oral cavity carcinoma. Pekkola-Heino K, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):341–4

The role of p53 tumor suppressor gene in human head and neck tumorigenesis. Pavelic ZP, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:21–4 (41 ref.)

p53 and ATM: cell cycle, cell death, and cancer. Morgan SE, et al. **Adv Cancer Res** 1997;71:1–25 (190 ref.)

Quercetin as a modulator of the cellular neoplastic phenotype. Effects on the expression of mutated H-ras and p53 in rodent and human cells. Avila MA, et al. **Adv Exp Med Biol** 1996;401:101–10

p53 expression in neurofibroma and malignant peripheral nerve sheath tumor. An immunohistochemical study of sporadic and NF1-associated tumors [see comments] Halling KC, et al. **Am J Clin Pathol** 1996 Sep;106(3):282–8 . Comment in: Am J Clin Pathol 1996 Sep;106(3):271–2.

Correlation between mutations in p53 gene and protein expression in human lymphomas. Martinez-Delgado B, et al. **Am J Hematol** 1997 May;55(1):1–8

Cyclin-dependent kinase inhibitor p21 in endometrial carcinoma [letter; comment] Backe J, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):243. Comment on: Am J Obstet Gynecol 1996 Nov;175(5):1246–52.

Expression and mutational analysis of P53 in stage IB and IIA cervical cancers. Benjamin I, et al. **Am J Obstet Gynecol** 1996 Nov;175(5):1266–71

The role of p53 tumor suppressor gene and bcl-2 protooncogene in rat corpus luteum death. Trott EA, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):327–31; discussion 331–2

Apoptosis in rheumatoid arthritis: p53 overexpression in rheumatoid arthritis synovium. Firestein GS, et al. **Am J Pathol** 1996 Dec;149(6):2143–51

Tumors associated with p53 germline mutations: a synopsis of 91 families. Kleihues P, et al. **Am J Pathol** 1997 Jan; 150(1):1–13 (92 ref.)

Analysis of chromosome 17p13 (p53 locus) alterations in gastric carcinoma cells by dual-color fluorescence in situ hybridization. Kobayashi M, et al. **Am J Pathol** 1996 Nov; 149(5):1575–84

Benign clonal keratinocyte patches with p53 mutations show no genetic link to synchronous squamous cell precancer or cancer in human skin. Ren ZP, et al. **Am J Pathol** 1997 May;150(5):1791–803

p53 gene mutations are common in uterine serous carcinoma and occur early in their pathogenesis. Tashiro H, et al. **Am J Pathol** 1997 Jan;150(1):177–85

Inhaled asbestos fibers induce p53 expression in the rat lung. Mishra A, et al. **Am J Respir Cell Mol Biol** 1997 Apr; 16(4):479–85

Absence of p53 mutations in malignant mesotheliomas. Mor O, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):9–13

Dampening of bait proteins in the two–hybrid system. Cormack RS, et al. **Anal Biochem** 1997 May 15;248(1):184–6

Genetic alterations in skin cancer. D'errico M, et al. **Ann Ist Super Sanita** 1996;32(1):53–63 (75 ref.)

Genetic alterations in gastric cancer. Ranzani GN. **Ann Ist Super Sanita** 1996;32(1):101–10 (75 ref.)

Gene therapy of prostate cancer: p53, suicidal genes, and other targets. Boulikas T. **Anticancer Res** 1997 May–Jun; 17(3A):1471–505 (236 ref.)

p53 protein expression in breast carcinomas. Comparative study with the wild type p53 induced proteins mdm2 and p21/waf1. Giannikaki E, et al. **Anticancer Res** 1997 May–Jun;17(3C):2123–7

Antisense oligonucleotides to p53 tumor suppressor suppress the induction of apoptosis by epidermal growth factor in NCI–H 596 human lung cancer cells. Murayama Y, et al. **Antisense Nucleic Acid Drug Dev** 1997 Apr;7(2):109–14

Genomic instability and poor prognosis associated with abnormal TP53 in breast carcinomas. Molecular and immunohistochemical analysis. Valgardsdottir R, et al. **APMIS** 1997 Feb;105(2):121–30

Chronic myelocytic leukemia in accelerated phase with i(17)(q10) and loss of p53 gene. Case report. Salles MT, et al. **Arch Med Res** 1997 Summer;28(2):293–6

p53 protein expression in benign lesions of the upper respiratory tract. Ingle RR, et al. **Arch Otolaryngol Head Neck Surg** 1997 Mar;123(3):297–300

p53 gene mutations and p53 protein expression in human soft tissue sarcomas. Yoo J, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):395–9

Apoptosis and cancer chemotherapy. Chresta CM, et al. **Behring Inst Mitt** 1996 Oct;(97):232–40 (35 ref.)

p53–mediated apoptosis: mechanisms and regulation. Haupt Y, et al. **Behring Inst Mitt** 1996 Oct;(97):32–59

Genetic alterations of p16INK4a and p53 genes in sporadic dysplastic nevus. Lee JY, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):667–72

Direct synthesis of full length p53 cDNA from frozen liver. Ranganathan PN, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):861–7

p53 mutations in squamous cell carcinomas from renal transplant recipients. Bennett MA, et al. **Biochem Soc Trans** 1997 Feb;25(1):342–5

Antisense oligonucleotide–mediated inhibition of mutant p53 expression. Ruddell CJ, et al. **Biochem Soc Trans** 1996 Aug; 24(3):410S

Detection of p53 mutations in oral cancer samples using a sensitive PCR–based method. Steingrimsdottir H, et al. **Biochem Soc Trans** 1997 Feb;25(1):315–8

Mutagenesis in the P53 gene. Pfeifer GP, et al. **Biochim Biophys Acta** 1997 Aug 8;1333(1):M1–8 (55 ref.)

The tumour suppressor gene p53 as a regulator of proliferative life–span and tumour progression. Wynford–Thomas D, et al. **Biol Signals** 1996 May–Jun; 5(3):139–53 (99 ref.)

Detection and analysis of living, growth–inhibited mammalian cells following transfection. Zeng YX, et al. **Biotechniques** 1997 Jul;23(1):88, 90, 92, 94

The role of the tumor suppressor genes p53 and Rb–1 in development and cell death. Clarke AR. **Birth Defects Orig Artic Ser** 1996;30(1):261–8 (34 ref.)

Microsatellite instability and p53 mutations in therapy–related leukemia suggest mutator phenotype. Ben–Yehuda D, et al. **Blood** 1996 Dec 1;88(11):4296–303

p21/WAF1 cyclin–kinase inhibitor expression in non–Hodgkin's lymphomas: a potential marker of p53 tumor–suppressor gene function. Chilosi M, et al. **Blood** 1996 Nov 15;88(10):4012–20

p53 abnormalities in B–cell prolymphocytic leukemia. Lens D, et al. **Blood** 1997 Mar 15;89(6):2015–23

p53 alterations are predictive of chemoresistance and aggressiveness in ovarian carcinomas: a molecular and immunohistochemical study. Buttitta F, et al. **Br J Cancer** 1997;75(2):230–5

A comparative study of detection of p53 mutations in human breast cancer by flow cytometry, single–strand conformation polymorphism and genomic sequencing. Chakravarty G, et al. **Br J Cancer** 1996 Oct;74(8):1181–7

Novel patterns of p53 abnormality in breast cancer from Taiwan: experience from a low–incidence area. Lou MA, et al. **Br J Cancer** 1997;75(5):746–51

Mutation of the TP53 gene and allelic imbalance at chromosome 17p13 in ductal carcinoma in situ. Munn KE, et al. **Br J Cancer** 1996 Nov;74(10):1578–85

p53 mutation is associated with high S–phase fraction in primary fallopian tube adenocarcinoma. Runnebaum IB, et al. **Br J Cancer** 1996 Oct;74(8):1157–60

Hot–spot mutations in the p53 gene of liver nodules induced in rats fed DL–ethionine with a methyl–deficient diet. Tsujiuchi T, et al. **Br J Cancer** 1997;76(1):15–20

p53 exon 5 mutations as a prognostic indicator of shortened survival in non–small–cell lung cancer. Vega FJ, et al. **Br J Cancer** 1997;76(1):44–51

Coexpression of p21Waf1/Cip1 and p53 in sun–exposed normal epidermis, but not in neoplastic epidermis [see comments] Inohara S, et al. **Br J Dermatol** 1996 Nov; 135(5):717–20. Comment in: Br J Dermatol 1997 May;136(5):803.

TP53 alterations in atypical ductal hyperplasia and ductal carcinoma in situ of the breast. Chitemerere M, et al. **Breast Cancer Res Treat** 1996;41(2):103–9

p53 alteration and human papilloma virus infection in paranasal sinus cancer. Caruana SM, et al. **Cancer** 1997 Apr 1;79(7):1320–8

The significance of allelic deletions and aneuploidy in colorectal carcinoma. Results of a 5–year follow–up study. Cohn KH, et al. **Cancer** 1997 Jan 15;79(2):233–44

Spontaneous apoptosis in gallbladder carcinoma. Relationships with clinicopathologic factors, expression of E–cadherin, bcl–2 protooncogene, and p53 oncosuppressor gene. Sasatomi E, et al. **Cancer** 1996 Nov 15;78(10):2101–10

p53 alterations in progenitor lesions of the bronchus, esophagus, oral cavity, and colon. Bennett WP. **Cancer Detect Prev** 1995;19(6):503–11 (109 ref.)

p53 mutations in head and neck squamous cell carcinomas from Sudanese snuff (toombak) users. Lazarus P, et al. **Cancer Detect Prev** 1996;20(4):270–8

A possible role for human papillomaviruses and c–myc, c–Ha–ras, and p53 gene alterations in malignant cutaneous lesions from renal transplant recipients. Pelisson I, et al. **Cancer Detect Prev** 1996;20(1):20–30

p53 is frequently mutated in Barrett's metaplasia of the intestinal type. Campomenosi P, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):559–65

p53 haplotype determination in breast cancer. Weston A, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):105–12

Delivery of the p53 tumor suppressor gene into lung cancer cells by an adenovirus/DNA complex. Nguyen DM, et al. **Cancer Gene Ther** 1997 May–Jun;4(3):191–8

Efficacy of p53 adenovirus–mediated gene therapy against human breast cancer xenografts. Nielsen LL, et al. **Cancer Gene Ther** 1997 Mar–Apr;4(2):129–38

Monoallelic p53 deletion in chronic lymphocytic leukemia detected by interphase cytogenetics. Amiel A, et al. **Cancer Genet Cytogenet** 1997 Sep;97(2):97–100

Trisomy 12 and p53 deletion in chronic lymphocytic leukemia detected by fluorescence in situ hybridization: association with morphology and resistance to conventional chemotherapy. Cano I, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):118–24

Absence of germline mutations in exons 5–9 of the p53 gene in patients with Li–Fraumeni–like (SBLA) and familial adenomatous polyposis heritable cancer syndromes. Moore SK, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):125–9

Analysis of the p16INK4 and TP53 tumor suppressor genes in bone sarcoma pediatric patients. Patiño–García A, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):50–5

p53 loss and point mutations are associated with suppression of apoptosis and progression of CML into myeloid blastic crisis. Stuppia L, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):28–35

Loss of heterozygosity on chromosome 17 and mutation of the p53 gene in retinoblastoma. Kato MV, et al. **Cancer Lett** 1996 Aug 23;106(1):75–82

Mutations of K–ras but not p53 genes in biliary duct and pancreatic duct carcinomas induced in hamsters by cholecystoduodenostomy with dissection of the common duct followed by N–nitrosobis(2–oxopropyl)amine. Majima T, et al. **Cancer Lett** 1997 Sep 16;118(1):47–53

p53 gene mutation in N–butyl–N–(4–hydroxybutyl)nitrosamine–induced urinary bladder tumors and N–methyl–N–nitrosourea–induced colon tumors of rats. Min H, et al. **Cancer Lett** 1997 Jul 15;117(1):81–6

Lack of involvement of p53 gene mutations in N–methyl–N–nitrosourea–induced bladder tumor progression in N–butyl–N–(4–hydroxybutyl)nitrosamine–treated rats and no suppression by indomethacin. Ozaki M, et al. **Cancer Lett** 1997 May 19;115(2):249–55

Alterations in hepatic p53 gene methylation patterns during tumor progression with folate/methyl deficiency in the rat. Pogribny IP, et al. **Cancer Lett** 1997 May 1;115(1):31–8

Induction of cyclin–dependent kinase inhibitor, p21WAF1, by treatment with 3,4–dihydro–6–[4–(3,4)–dimethoxybenzoyl)–1–piperazinyl]–2(1H)–quinoline (vesnarinone) in a human salivary cancer cell line with mutant p53 gene. Sato M, et al. **Cancer Lett** 1997 Jan 30;112(2):181–9

K–ras and p53 mutations in aberrant crypt foci and colonic tumors from colon cancer patients. Shivapurkar N, et al. **Cancer Lett** 1997 May 1;115(1):39–46

Infrequent Ki–ras and an absence of p53 mutations in hepatocellular carcinomas induced by a choline deficient L–amino acid defined diet in rats. Tsujiuchi T, et al. **Cancer Lett** 1996 Nov 12;108(1):137–41

Introduction of p21(Waf1/Cip1) gene into a carcinoma cell line of the uterine cervix with inactivated p53. Yokoyama Y, et al. **Cancer Lett** 1997 Jun 24;116(2):233–9

Low–level c–myc amplification in human colonic carcinoma cell lines and tumors: a frequent, p53–independent mutation associated with improved outcome in a randomized multi–institutional trial. Augenlicht LH, et al. **Cancer Res** 1997 May 1;57(9):1769–75

p53 gene mutation pattern in rat liver tumors induced by vinyl chloride. Barbin A, et al. **Cancer Res** 1997 May 1; 57(9):1695–8

DNA damage–associated dysregulation of the cell cycle and apoptosis control in cells with germ–line p53 mutation. Goi K, et al. **Cancer Res** 1997 May 15;57(10):1895–902

Paradoxical tumor inhibitory effect of p53 loss in transgenic mice expressing epidermal–targeted v–rasHa, v–fos, or human transforming growth factor alpha. Greenhalgh DA, et al. **Cancer Res** 1996 Oct 1;56(19):4413–23

p53 mutations in squamous cell carcinoma of the head and neck predominate in a subgroup of former and present smokers with a low frequency of genetic instability. Liloglou T, et al. **Cancer Res** 1997 Sep 15;57(18):4070–4

Wilms' tumor 1–KTS isoforms induce p53–independent apoptosis that can be partially rescued by expression of the epidermal growth factor receptor or the insulin receptor. Menke AL, et al. **Cancer Res** 1997 Apr 1; 57(7):1353–63

Loss of p53 is an early event in induction of brain tumors in mice by transplacental carcinogen exposure. Oda H, et al. **Cancer Res** 1997 Feb 15;57(4):646–50

Ovarian cancer genomic instability correlates with p53 frameshift mutations. Sood AK, et al. **Cancer Res** 1997 Mar 15;57(6):1047–9

Low incidence of p53 mutations in UVA (365–nm)–induced skin tumors in hairless mice. van Kranen HJ, et al. **Cancer Res** 1997 Apr 1;57(7):1238–40

Circulating anti–p53 antibodies in esophageal cancer patients are found predominantly in individuals with p53 core domain mutations in their tumors. von Brevern MC, et al. **Cancer Res** 1996 Nov 1;56(21):4917–21

Characterization of a putative p53 binding site in the promoter of the mouse tissue inhibitor of metalloproteinases–3 (TIMP–3) gene: TIMP–3 is not a p53 target gene. Bian J, et al. **Carcinogenesis** 1996 Dec; 17(12):2559–62

The role of UV–B light in skin carcinogenesis through the analysis of p53 mutations in squamous cell carcinomas of hairless mice. Dumaz N, et al. **Carcinogenesis** 1997 May; 18(5):897–904

Induction of esophageal tumors in zinc–deficient rats by single low doses of N–nitrosomethylbenzylamine (NMBA): analysis of cell proliferation, and mutations in H–ras and p53 genes. Fong LY, et al. **Carcinogenesis** 1997 Aug; 18(8):1477–84

Oral contraceptives, reproductive factors and p53 gene expression in colorectal cancer. Freedman AN, et al. **Carcinogenesis** 1997 Apr;18(4):855–6

Distribution of p53 and K–ras mutations in human lung cancer tissues. Gao HG, et al. **Carcinogenesis** 1997 Mar; 18(3):473–8

Interferon–alpha and p53 alleles involved in nasopharyngeal carcinoma. Golovleva I, et al. **Carcinogenesis** 1997 Apr; 18(4):645–7

p53 abnormalities in hepatocellular carcinoma from United States patients: analysis of all 11 exons. Kazachkov Y, et al. **Carcinogenesis** 1996 Oct;17(10):2207–12

p53 mutations in lung tumours: relationship to gender and lung DNA adduct levels. Kure EH, et al. **Carcinogenesis** 1996 Oct;17(10):2201–5

p53 protein expression and increased SSCP mobility shifts in the p53 gene in normal urothelium cultured from smokers. Mothersill C, et al. **Carcinogenesis** 1997 Jun; 18(6):1241–5

Chemoprevention of spontaneous tumorigenesis in nullizygous p53–deficient mice by dehydroepiandrosterone and its analog 16alpha–fluoro–5–androsten–17–one. Perkins SN, et al. **Carcinogenesis** 1997 May;18(5):989–94

Absence of mutations in the p53 tumor suppressor gene in woodchuck hepatocellular carcinomas associated with hepadnavirus infection and intake of aflatoxin B1. Rivkina M, et al. **Carcinogenesis** 1996 Dec;17(12):2689–94

Similar incidence of K–ras mutations in lung carcinomas of FVB/N mice and FVB/N mice carrying a mutant p53 transgene. Shafarenko M, et al. **Carcinogenesis** 1997 Jul; 18(7):1423–6

Immunohistoselective sequencing (IHSS) of p53 tumor suppressor gene in human oesophageal precancerous lesions. Shi ST, et al. **Carcinogenesis** 1996 Oct;17(10):2131–6

Differences in the p53 gene mutational spectra of prostate cancers between Japan and Western countries. Watanabe M, et al. **Carcinogenesis** 1997 Jul;18(7):1355–8

Choline deficiency selects for resistance to p53–independent apoptosis and causes tumorigenic transformation of rat hepatocytes. Zeisel SH, et al. **Carcinogenesis** 1997 Apr; 18(4):731–8

Expression of memory, differentiation, and repression of c–myc and p53 genes in human RD/TE–671 cells induced by a ureido–derivative of pyridine (UDP–4). Pappas IS, et al. **Cell Growth Differ** 1996 Jun;7(6):797–809

Expression of p53 gene in oral squamous cell carcinoma and its relation with clinical and pathological parameters and prognosis of patients. Mao C, et al. **Chin Med Sci J** 1995 Dec;10(4):199–203

A polymorphism in intron 2 of the TP53 gene. DiCioccio RA, et al. **Clin Genet** 1996 Aug;50(2):108–9

Smoking causes cancer! [letter] Pfeifer GP, et al. **Curr Biol** 1997 May 1;7(5):R271

Gene therapy for head and neck cancer. Breau RL, et al. **Curr Opin Oncol** 1996 May;8(3):227–31 (33 ref.)

Assignment of Chinese hamster p53 gene (TP53) to chromosome band 2p31, a region not involved in the karyotypic changes of a tumorigenic cell line. Vatteroni

L, et al. **Cytogenet Cell Genet** 1997;77(3–4):228–31
Temperature-sensitive mutant p53 (ala143) interferes transiently with DNA-synthesis and cell-cycle progression in Saos-2 cells. van Laar T, et al. **Cytometry** 1996 Sep 1;25(1):21–31
MDM2 amplification, P53 mutation, and accumulation of the P53 gene product in malignant fibrous histiocytoma. Reid AH, et al. **Diagn Mol Pathol** 1996 Mar;5(1):65–73
Tumor suppressor p53 gene mutation in squamous cell carcinoma of the larynx. Sarkar FH, et al. **Diagn Mol Pathol** 1996 Sep;5(3):201–5
Clinicopathologic analysis of k-ras, p53, and ERBB-2 gene alterations in pulmonary adenocarcinoma. Visscher DW, et al. **Diagn Mol Pathol** 1997 Feb;6(1):64–9
A significant decrease of the transcriptional activity of p53 mutants deriving from human functional adrenal tumors. Lin SR, et al. **DNA Cell Biol** 1996 Oct;15(10):793–803
Nucleotide sequence of exons 5 to 9 of the p53 tumour-suppressor gene of the donkey (Equus asinus). Nasir L, et al. **DNA Seq** 1995;6(1):61–3
Tumor suppressor p53 gene forms multiple isoforms: evidence for single locus origin and cytoplasmic complex formation with heat shock proteins. Selkirk JK, et al. **Electrophoresis** 1996 Nov;17(11):1764–71
Translational regulation of human p53 gene expression. Fu L, et al. **EMBO J** 1996 Aug 15;15(16):4392–401
Alterations in the K-ras and p53 genes in rat lung tumors. Belinsky SA, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:901–6
Cigarette smoking and p53 mutations in lung cancer and bladder cancer. Husgafvel-Pursiainen K, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:553–6
DNA damage-inducible genes as biomarkers for exposures to environmental agents. Johnson NF, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:913–8
Molecular epidemiology in environmental health: the potential of tumor suppressor gene p53 as a biomarker. Semenza JC, et al. **Environ Health Perspect** 1997 Feb;105 Suppl 1:155–63 (104 ref.)
Polymorphisms of H-ras-1 and p53 in breast cancer and lung cancer: a meta-analysis. Weston A, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:919–26
Demonstration of p53 protein and TP53 gene mutations in oligodendrogliomas. Hagel C, et al. **Eur J Cancer** 1996 Dec; 32A(13):2242–8
Polymorphisms in P21CIP1/WAF1 are not correlated with TP53 status in sporadic ovarian tumours. Milner BJ, et al. **Eur J Cancer** 1996 Dec;32A(13):2360–3
TP53 mutation in ovarian carcinoma. Murphy M, et al. **Eur J Cancer** 1997 Jul;33(8):1281–3
Discordance of p53 status in matched primary tumours and metastases in head and neck squamous cell carcinoma patients. Kropveld A, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):388–93
Conditions for single strand conformation polymorphism (SSCP)analysis with broad applicability: a study on the effects of acrylamide, buffer and glycerol concentrations in SSCP analysis of exons of the p53 gene). Teschauer W, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):125–31
Overexpression and relationships of HER-2/neu, epidermal growth factor receptor, p53, Ki-67, and tumor necrosis factor alpha in epithelial ovarian cancer. Goff BA, et al. **Eur J Gynaecol Oncol** 1996;17(6):487–92
The significance of p53 mutations in human cancers. Pellegata NS, et al. **Eur J Histochem** 1996;40(4):273–82 (50 ref.)
Involvement of p53 in DNA strand break-induced apoptosis in postmitotic CNS neurons. Enokido Y, et al. **Eur J Neurosci** 1996 Sep;8(9):1812–21
Detection of mutant p53 in clam leukemia cells. Barker CM, et al. **Exp Cell Res** 1997 May 1;232(2):240–5
The p53-regulated cyclin G gene promotes cell growth: p53 downstream effectors cyclin G and Gadd45 exert different effects on cisplatin chemosensitivity. Smith ML, et al. **Exp Cell Res** 1997 Jan 10;230(1):61–8
The p53 tumour suppressor gene: a mediator of a G1 growth arrest and of apoptosis. Yonish-Rouach E. **Experientia** 1996 Oct 31;52(10–11):1001–7 (116 ref.)
Target length and primer concentration affect the gain of c-erbB2 and p53 amplicons. Sundfors CH, et al. **FASEB J** 1997 Sep;11(11):897–903
Enterocyte differentiation is compatible with SV40 large T expression and loss of p53 function in human colonic Caco-2 cells. Status of the pRb1 and pRb2 tumor suppressor gene products. Djelloul S, et al. **FEBS Lett** 1997 Apr 14;406(3):234–42
NADH-mediated DNA damage induced by a new coenzyme, pyrroloquinoline quinone, in the presence of copper(II) ion. Hiraku Y, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):317–20
Childhood hepatocellular adenoma in familial adenomatous polyposis: mutations in adenomatous polyposis coli gene and p53. Bala S, et al. **Gastroenterology** 1997 Mar; 112(3):919–22
Mutation spectrum of p53 gene in highly malignant human osteosarcomas. Radig K, et al. **Gen Diagn Pathol** 1996 Jun; 142(1):25–32
Cloning of the p53 tumor suppressor gene from the Japanese medaka (Oryzias latipes) and evaluation of mutational hotspots in MNNG-exposed fish. Krause MK, et al. **Gene** 1997 Apr 11;189(1):101–6
Cloning and characterization of Chinese hamster p53 cDNA. Lee H, et al. **Gene** 1997 Jan 15;184(2):177–83
Analysis of intron 4 of the p53 gene in human cutaneous melanoma. Shamsher M, et al. **Gene** 1996 Oct 17; 176(1–2):259–62
Cancer gene therapy using a novel adeno-associated virus vector expressing human wild-type p53. Qazilbash MH, et al. **Gene Ther** 1997 Jul;4(7):675–82
TP53 and MYC gene alterations independently predict poor prognosis in breast cancer patients. Berns EM, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):170–9
Absence of TP53 alterations in pheochromocytomas and medullary thyroid carcinomas. Herfarth KK, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):24–9
Targeted mutations of breast cancer susceptibility gene homologs in mice: lethal phenotypes of Brca1, Brca2, Brca1/Brca2, Brca1/p53, and Brca2/p53 nullizygous embryos. Ludwig T, et al. **Genes Dev** 1997 May 15; 11(10):1226–41
Targeted expression of MDM2 uncouples S phase from mitosis and inhibits mammary gland development independent of p53. Lundgren K, et al. **Genes Dev** 1997 Mar 15;11(6):714–25
Genomic structure and chromosomal localization of GML (GPI-anchored molecule-like protein), a gene induced by p53. Kimura Y, et al. **Genomics** 1997 May 1;41(3):477–80
A novel transcript encoded within the 10-kb first intron of the human p53 tumor suppressor gene (D17S2179E) is induced during differentiation of myeloid leukemia cells. Reisman D, et al. **Genomics** 1996 Dec 15;38(3):364–70
p53 interference and growth inhibition in p53-mutant and overexpressing endometrial cancer cell lines. Janicek MF, et al. **Gynecol Oncol** 1997 Jul;66(1):94–102
Bcl-2 protein expression and p53 gene mutation in chronic lymphocytic leukemia: correlation with in vitro sensitivity to chlorambucil and purine analogs. Morabito F, et al. **Haematologica** 1997 Jan-Feb;82(1):16–20
The regulation of p53-mediated transcription and the roles of hTAFII31 and mdm-2. Lu H, et al. **Harvey Lect** 1994–95;90:81–93 (32 ref.)
Target gene modulation in hepatocellular carcinomas by decreased DNA-binding of p53 mutations. Kubicka S, et al. **Hepatology** 1997 Apr;25(4):867–73
Analysis of the tumorigenicity of the X gene of hepatitis B virus in a nontransformed hepatocyte cell line and the effects of cotransfection with a murine p53 mutant equivalent to human codon 249. Oguey D, et al. **Hepatology** 1996 Nov;24(5):1024–33
Tissue-specific growth suppression and chemosensitivity promotion in human hepatocellular carcinoma cells by retroviral-mediated transfer of the wild-type p53 gene. Xu GW, et al. **Hepatology** 1996 Nov;24(5):1264–8
Expression of p53 protein and p53 gene transcripts in rabbit carotid arteries after balloon denudation. Aoyagi M, et al. **Histochem Cell Biol** 1997 May;107(5):365–70
bcl-2 is preferentially expressed in tumours of muscle origin but is not related to p53 expression. Soini Y, et al. **Histopathology** 1996 Feb;28(2):141–5
Adenoviral delivery of recombinant DNA into transgenic mice bearing hepatocellular carcinomas. Bao JJ, et al. **Hum Gene Ther** 1996 Feb 10;7(3):355–65
Modification of tumor suppressor gene expression in non-small cell lung cancer (NSCLC) with a retroviral vector expressing wildtype (normal) p53. Roth JA. **Hum Gene Ther** 1996 May 1;7(7):861–74
Microsatellite instability and mutations of p53 and TGF-beta RII genes in gastric cancer. Renault B, et al. **Hum Genet** 1996 Nov;98(5):601–7
p53 polymorphisms and haplotypes in nasopharyngeal cancer. Birgander R, et al. **Hum Hered** 1996 Jan-Feb; 46(1):49–54
The codon 31 polymorphism of the p53-inducible gene p21 shows distinct differences between major ethnic groups. Birgander R, et al. **Hum Hered** 1996 May-Jun;46(3):148–54
p53 polymorphisms and haplotypes show distinct differences between major ethnic groups. Själander A, et al. **Hum Hered** 1996 Jan-Feb;46(1):41–8
New splicing mutation in exon 5-6 of the p53-tumor suppressor gene in a malignant schwannoma. Schneider-Stock R, et al. **Hum Mutat** 1997;9(1):91–4
Dedifferentiated acinic cell carcinoma of the parotid gland: a distinct rarely described entity. Henley JD, et al. **Hum Pathol** 1997 Jul;28(7):869–73
Primary mediastinal and testicular seminomas: a comparison of K-ras-2 gene sequence and p53 immunoperoxidase analysis of 26 cases. Przygodzki RM, et al. **Hum Pathol** 1996 Sep;27(9):975–9
Identical, unique p53 mutations in a primary ovarian mucinous adenocarcinoma and a synchronous contralateral ovarian mucinous tumor of low malignant potential suggest a common clonal origin. Werness BA, et al. **Hum Pathol** 1997 May;28(5):626–30
p53 and response to chemotherapy and radiotherapy. Ruley HE. **Important Adv Oncol** 1996;:37–56 (269 ref.)
Racial comparison of p53 alterations in breast cancer: difference in prognostic value. Shiao YH, et al. **In Vivo** 1996 Mar-Apr;10(2):169–73
Increased apoptosis in AK-5 tumor cells after transfection with wild type p53 gene. Pardhasaradhi BV, et al. **Indian J Exp Biol** 1996 Oct;34(10):945–8
Chromosomal findings and p53-mutation analysis in chromophilic renal-cell carcinomas. Dijkhuizen T, et al. **Int J Cancer** 1996 Sep 27;68(1):47–50
Cisplatin-induced apoptosis and p53 gene status in a cisplatin-resistant human ovarian carcinoma cell line. Fajac A, et al. **Int J Cancer** 1996 Sep 27;68(1):67–74
Mutations and polymorphisms in the p53, p21 and p16 genes in oral carcinomas of Indian betel quid chewers. Heinzel PA, et al. **Int J Cancer** 1996 Nov 15;68(4):420–3
Conserved region mutations of the p53 gene are concentrated in distal colorectal cancers. Jernvall P, et al. **Int J Cancer** 1997 Feb 20;74(1):97–101
Abrogation of apoptosis induced by DNA-damaging agents in human bladder-cancer cell lines with p21/WAF1/CIP1 and/or p53 gene alterations. Kawasaki T, et al. **Int J Cancer** 1996 Nov 15;68(4):501–5
Allele-specific PCR analysis of p53 codon 249 AGT transversion in liver tissues from patients with viral hepatitis. Kirby GM, et al. **Int J Cancer** 1996 Sep 27; 68(1):21–5
Loss of heterozygosity at the TP53 gene: independent occurrence from genetic instability events in node-negative breast cancer. Lizard-Nacol S, et al. **Int J Cancer** 1997 Aug 7;72(4):599–603
K-ras and p53 mutations in hereditary non-polyposis colorectal cancers. Losi L, et al. **Int J Cancer** 1997 Feb 20;74(1):94–6
Mutations of p53 tumor-suppressor gene in angiosarcoma. Naka N, et al. **Int J Cancer** 1997 Jun 11;71(6):952–5
Radio-induced modulation of transforming growth factor beta1 sensitivity in a p53 wild-type human colorectal-cancer cell line. Suardet L, et al. **Int J Cancer** 1996 Sep 27;68(1):126–31
Diagnosis of bladder cancer by analysis of the allelic loss of the p53 gene in urine samples using blunt-end single-strand conformation polymorphism. Sugano K, et al. **Int J Cancer** 1997 Aug 22;74(4):403–6
Prevalence of p53 mutations and protein expression in esophageal cancers in southern Thailand. Suwiwat S, et al. **Int J Cancer** 1997 Jul 3;72(1):23–6
p53 mutation spectrum in Japanese Bowen's disease suggests a role for mutagens other than ultraviolet light. Takata M, et al. **Int J Cancer** 1997 May 2;71(3):370–2
Genetic diversity at the p53 locus between primary human colorectal adenocarcinomas and their lymph-node metastases. Zhang JS, et al. **Int J Cancer** 1997 Mar 17; 70(6):674–8
p53 functional status in HPV-positive human primary cervical carcinoma. Rodríguez JA, et al. **Int J Dev Biol** 1996;Suppl 1:303S
p53-independent induction of p21 (WAF1/CIP1) during differentiation of HL-60 cells by tumor necrosis factor alpha. Yoshida K, et al. **Int J Hematol** 1996 Dec;65(1):41–8
Prevalence and clinical significance of combined K-ras mutation and p53 aberration in pancreatic adenocarcinoma. Dergham ST, et al. **Int J Pancreatol** 1997 Apr;21(2):127–43
Heat-induced apoptosis and p53 in cultured mammalian cells. Nakano H, et al. **Int J Radiat Biol** 1997 May;71(5):519–29
Relationship between radiation response and p53 status in human bladder cancer cells. Ribeiro JC, et al. **Int J Radiat Biol** 1997 Jul;72(1):11–20
Correlation of allelic loss of the P53 gene and tumor grade, stage, and malignant progression in bladder cancer. Tsutsumi M, et al. **Int J Urol** 1997 Jan;4(1):74–8
Analysis of fused maxillary incisor dentition in p53-deficient exencephalic mice. Kaufman MH, et al. **J Anat** 1997 Jul; 191 (Pt 1):57–64
Glucose catabolism in cancer cells. The type II hexokinase promoter contains functionally active response elements for the tumor suppressor p53. Mathupala SP, et al. **J Biol Chem** 1997 Sep 5;272(36):22776–80
Transcriptional repression of p53 promoter by hepatitis C virus core protein. Ray RB, et al. **J Biol Chem** 1997 Apr 25;272(17):10983–6
MDR1 expression correlates with mutant p53 expression in colorectal cancer metastases. de Kant E, et al. **J Cancer Res Clin Oncol** 1996;122(11):671–5
p53 gene mutations and expression of p53 and mdm2 proteins in invasive breast carcinoma. A comparative analysis with clinico-pathological factors. Günther T, et al. **J Cancer Res Clin Oncol** 1997;123(7):388–94
Analysis of the cellular origin of hepatocellular carcinoma by p53 genotype. He B, et al. **J Cancer Res Clin Oncol** 1996;122(12):763–6
p53 gene mutations in soft-tissue sarcomas--correlations with p53 immunohistochemistry and DNA ploidy. Schneider-Stock R, et al. **J Cancer Res Clin Oncol** 1997; 123(4):211–8
WAF1 expression and p53 mutations in human colorectal cancers. Wang A, et al. **J Cancer Res Clin Oncol** 1997; 123(2):118–23
p53 mutations in adrenal tumors: Caucasian patients do not show the exon 4 "hot spot" found in Taiwan. Reincke M, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3636–8
Drug-induced apoptosis in hepatoma cells is mediated by the CD95 (APO-1/Fas) receptor/ligand system and involves activation of wild-type p53. Müller M, et al. **J Clin Invest** 1997 Feb 1;99(3):403–13
P 53 suppressor gene and cathepsin D expression in correlation with cellular and humoral immunity in cutaneous leishmaniasis. Selim MA, et al. **J Egypt Soc Parasitol** 1996 Dec;26(3):743–53
Alterations in the tumor suppressor genes p53, RB, p16/MTS1, and p15/MTS2 in human pancreatic cancer and hepatoma cell lines. Kaino M. **J Gastroenterol** 1997

Feb;32(1):40–6
Loss of heterozygosity on chromosome 10, 13q(Rb), 17p, and p53 gene mutations in human brain gliomas. Lee SH, et al. **J Korean Med Sci** 1995 Dec;10(6):442–8
Deletions of 9p21 and TP53 in bladder cancer. Park WS, et al. **J Korean Med Sci** 1996 Jun;11(3):233–8
p53 and bcl–2 expression and argyrophilic nucleolar organizer regions in patients with malignant maxillary sinus tumours. Nakashima T, et al. **J Laryngol Otol** 1997 Jan; 111(1):38–42
An extended Li–Fraumeni kindred with gastric carcinoma and a codon 175 mutation in TP53. Varley JM, et al. **J Med Genet** 1995 Dec;32(12):942–5
Adenovirus–mediated wild–type p53 gene transfer and overexpression induces apoptosis of human glioma cells independent of endogenous p53 status. Li H, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):872–8
Molecular abnormalities in liposarcoma [editorial] Barrett PD, et al. **J Pathol** 1997 Jan;181(1):3–4
Mutation of the p53 tumour suppressor gene occurs preferentially in the chromophobe type of renal cell tumour. Contractor H, et al. **J Pathol** 1997 Feb; 181(2):136–9
Molecular abnormalities of the p53 pathway in dedifferentiated liposarcoma. Dei Tos AP, et al. **J Pathol** 1997 Jan;181(1):8–13
Prognostic significance of p53 abnormalities in colorectal carcinoma detected by PCR–SSCP and immunohistochemical analysis. Leahy DT, et al. **J Pathol** 1996 Dec;180(4):364–70
Overexpression of p53 in normal oral mucosa of oral cancer patients does not necessarily predict further malignant disease. Ogden GR, et al. **J Pathol** 1997 Jun;182(2):180–4
TP53 protein accumulation and gene mutation in relation to overexpression of MDM2 protein in ovarian borderline tumours and stage I carcinomas. Skomedal H, et al. **J Pathol** 1997 Feb;181(2):158–65
p21WAF1/CIP1 and MDM2 expression in non–Hodgkin's lymphoma and their relationship to p53 status: a p53+, MDM2–, p21–immunophenotype associated with missense p53 mutations. Villuendas R, et al. **J Pathol** 1997 Jan; 181(1):51–61
Gene therapy for lung cancer: enhancement of tumor suppression by a combination of sequential systemic cisplatin and adenovirus–mediated p53 gene transfer. Nguyen DM, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1372–6; discussion 1376–7
Deletion of the p53 gene in a patient with aggressive burn scar carcinoma. Harland DL, et al. **J Trauma** 1997 Jan; 42(1):104–7
Nuclear localization of the NS3 protein of hepatitis C virus and factors affecting the localization. Muramatsu S, et al. **J Virol** 1997 Jul;71(7):4954–61
p53 mutation in B–cell lymphoid neoplasms with reference to oncogene rearrangements associated with chromosomal translocations. Akasaka T, et al. **Jpn J Cancer Res** 1996 Sep;87(9):930–7
Rare occurrence of ras and p53 gene mutations in mouse stomach tumors induced by N–methyl–N–nitrosourea. Furihata C, et al. **Jpn J Cancer Res** 1997 Apr;88(4):363–8
Evidence that expression of a mutated p53 gene attenuates apoptotic cell death in human gastric intestinal–type carcinomas in vivo. Ishida M, et al. **Jpn J Cancer Res** 1997 May;88(5):468–75
Infrequent overexpression of p53 protein in Epstein–Barr virus–associated gastric carcinomas. Ojima H, et al. **Jpn J Cancer Res** 1997 Mar;88(3):262–6
Genetic evidence for the multicentric origin of synchronous multiple gastric carcinoma. Kang GH, et al. **Lab Invest** 1997 Mar;76(3):407–17
Mutation of p53 in squamous cell cancer of the head and neck: relationship to tumor cell proliferation. Wood NB, et al. **Laryngoscope** 1997 Jun;107(6):827–33
Biphenotypic blast crisis of chronic myelogenous leukemia: abnormalities of p53 and retinoblastoma genes. Ishikura H, et al. **Leuk Lymphoma** 1997 May;25(5–6):573–8
Lack of CD54 expression and mutation of p53 gene relate to the prognosis of childhood Burkitt's lymphoma. Kaneko H, et al. **Leuk Lymphoma** 1996 May;21(5–6):449–55
P53 gene mutations in chronic myelogenous leukemia medullary and extramedullary blast crisis. Marasca R, et al. **Leuk Lymphoma** 1996 Dec;24(1–2):175–82
TP53 mutations in myelodysplastic syndrome. Misawa S, et al. **Leuk Lymphoma** 1996 Nov;23(5–6):417–22 (51 ref.)
Genetic aberrations in the development and subsequent progression of myelodysplastic syndrome. Misawa S, et al. **Leukemia** 1997 Apr;11 Suppl 3:533–5
No concomitant occurrence of the N–ras and p53 gene mutations in myelodysplastic syndromes. Mitani K, et al. **Leukemia** 1997 Jun;11(6):863–5
Myeloproliferative disease and myelodysplastic syndrome induced by transplantation of bone marrow cells expressing mutant p53. Shounan Y, et al. **Leukemia** 1997 Oct; 11(10):1641–9
Role of p53 tumor suppressor gene and Fas/Apo–1 in induction of apoptosis and differentiation of cancer cells. Takahashi R. **Leukemia** 1997 Apr;11 Suppl 3:331–3
Tumor suppressor gene alteration in adult acute lymphoblastic leukemia (ALL). Analysis of retinoblastoma (Rb) and p53 gene expression in lymphoblasts of patients with de novo, relapsed, or refractory ALL treated in Southwest Oncology Group studies. Tsai T, et al. **Leukemia** 1996 Dec;10(12):1901–10
Point mutation of p53 tumor suppressor gene in bovine leukemia virus–induced lymphosarcoma. Zhuang W, et al. **Leukemia** 1997 Apr;11 Suppl 3:344–6
Stability of p53 tumor suppressor gene mutations during the process of metastasis and during chemotherapy. Taniguchi Y, et al. **Lung Cancer** 1996 Jun;14(2–3):219–28
New assays for Y chromosome and p53 pseudogene clines among East Holstein house mice. Prager EM, et al. **Mamm Genome** 1997 Apr;8(4):279–81
A new primer pair for detection of Chlamydia pneumoniae by polymerase chain reaction. Kubota Y. **Microbiol Immunol** 1996;40(1):27–32
p53 expression in placentas with hydropic change and hydatidiform moles. Cheville JC, et al. **Mod Pathol** 1996 Apr;9(4):392–6
ras and p53 genes in male breast cancer. Dawson PJ, et al. **Mod Pathol** 1996 Apr;9(4):367–70
Immunohistochemical analysis of p53 mutations in bronchioloalveolar carcinoma and conventional pulmonary adenocarcinoma. Wang X, et al. **Mod Pathol** 1995 Dec; 8(9):919–23
p53–independent expression of p21waf1/cip1 in preinvasive and invasive squamous neoplasms of the uterine cervix. Werness BA, et al. **Mod Pathol** 1997 Jun;10(6):578–84
Differential effects of p53 mutants on the growth of human bronchial epithelial cells. Coursen JD, et al. **Mol Carcinog** 1997 Jul;19(3):191–203
Assessment of mutations in Ki–ras and p53 in colon cancers from azoxymethane– and dimethylhydrazine–treated rats. Erdman SH, et al. **Mol Carcinog** 1997 Jun;19(2):137–44
Screening the p53 status of human cell lines using a yeast functional assay. Jia LQ, et al. **Mol Carcinog** 1997 Aug; 19(4):243–53
Incidence of p53 and Ha–ras gene mutations in chemically induced rat mammary carcinomas. Kito K, et al. **Mol Carcinog** 1996 Oct;17(2):78–83
Upregulation of endogenous p53 and induction of in vivo apoptosis in B–lineage lymphomas of E(mu)–myc transgenic mice by deregulated c–myc transgene. Prasad VS, et al. **Mol Carcinog** 1997 Feb;18(2):66–77
Enhanced sensitivity to tumor growth and development in multistage skin carcinogenesis by transforming growth factor–alpha–induced epidermal growth factor receptor activation but not p53 inactivation. Shibata MA, et al. **Mol Carcinog** 1997 Mar;18(3):160–70
Reappraisal of p53 mutations in human malignant astrocytic neoplasms by p53 functional assay: comparison with conventional structural analyses. Tada M, et al. **Mol Carcinog** 1997 Mar;18(3):171–6
A high–resolution analysis of chromatin structure along p53 sequences. Tornaletti S, et al. **Mol Carcinog** 1996 Dec; 17(4):192–201
YY1 and NF1 both activate the human p53 promoter by alternatively binding to a composite element, and YY1 and E1A cooperate to amplify p53 promoter activity. Furlong EE, et al. **Mol Cell Biol** 1996 Oct;16(10):5933–45
Molecular and cellular responses to DNA damage in a murine pituitary adenoma cell line. Woloschak M, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):61–8
A mutation in a thioredoxin reductase homolog suppresses p53–induced growth inhibition in the fission yeast Schizosaccharomyces pombe. Casso D, et al. **Mol Gen Genet** 1996 Oct 16;252(5):518–29
Zebrafish (Danio rerio) p53 tumor suppressor gene: cDNA sequence and expression during embryogenesis. Cheng R, et al. **Mol Mar Biol Biotechnol** 1997 Jun;6(2):88–97
Characterization of gene expression of a p53 homologue in the soft–shell clam (Mya arenaria). Van Beneden RJ, et al. **Mol Mar Biol Biotechnol** 1997 Jun;6(2):116–22
The p53 tumour suppressor gene: a model for molecular epidemiology of human cancer. Soussi T. **Mol Med Today** 1996 Jan;2(1):32–7 (43 ref.)
Cisplatin, camptothecin, and taxol sensitivities of cells with p53–associated multidrug resistance. Vasey PA, et al. **Mol Pharmacol** 1996 Dec;50(6):1536–40
The presence/absence polymorphism and evolution of the p53 pseudogene in the genus Mus. Ohtsuka H, et al. **Mol Phylogenet Evol** 1996 Jun;5(3):548–56
Mutations of the p53 tumor suppressor gene and ras oncogenes in aflatoxin hepatocarcinogenesis. Shen HM, et al. **Mutat Res** 1996 Oct;366(1):23–44 (167 ref.)
The mouse lymphoma L5178Y Tk+/– cell line is heterozygous for a codon 170 mutation in the p53 tumor suppressor gene. Storer RD, et al. **Mutat Res** 1997 Feb 3;373(2):157–65
Germ–line mutations of the p53 tumor–suppressor gene in children and young adults with second malignant neoplasms [letter] Malkin D, et al. **N Engl J Med** 1997 Mar 6;336(10):734
Female embryonic lethality in mice nullizygous for both Msh2 and p53. Cranston A, et al. **Nat Genet** 1997 Sep; 17(1):114–8
Retrovirus–mediated p53 gene therapy [letter] Estreicher A, et al. **Nat Med** 1996 Nov;2(11):1163
Structure–based rescue of common tumor–derived p53 mutants. Wieczorek AM, et al. **Nat Med** 1996 Oct; 2(10):1143–6
p53 and treatment of bladder cancer [letter; comment] Cote RJ, et al. **Nature** 1997 Jan 9;385(6612):123–5. Comment on: Nature 1996 Jun 20;381(6584):713–6.
Dopamine neurons from transgenic mice with a knockout of the p53 gene resist MPTP neurotoxicity. Trimmer PA, et al. **Neurodegeneration** 1996 Sep;5(3):233–9
Analysis of p53 gene mutations in human glioma cell lines. Koga H, et al. **Noshuyo Byori** 1996 Apr;13(1):1–10
A novel germ line p53 mutation in intron 6 in diverse childhood malignancies. Avigad S, et al. **Oncogene** 1997 Apr 3;14(13):1541–5
Superimposed histologic and genetic mapping of chromosome 17 alterations in human urinary bladder neoplasia. Chaturvedi V, et al. **Oncogene** 1997 May 1; 14(17):2059–70
The p53 activation and apoptosis induced by DNA damage are reversibly inhibited by salicylate. Chernov MV, et al. **Oncogene** 1997 May 29;14(21):2503–10
p53, mutation frequency and apoptosis in the murine small intestine. Clarke AR, et al. **Oncogene** 1997 May 1; 14(17):2015–8
Dominance of wild–type p53–mediated transcriptional activation in breast epithelial cells. Davis P, et al. **Oncogene** 1996 Sep 19;13(6):1315–22
Polyomavirus large T antigen overcomes p53 dependent growth arrest. Doherty J, et al. **Oncogene** 1997 Apr 24; 14(16):1923–31
Cells lacking CIP1/WAF1 genes exhibit preferential sensitivity to cisplatin and nitrogen mustard. Fan S, et al. **Oncogene** 1997 May 8;14(18):2127–36
Partial characterization of the woodchuck tumor suppressor, p53, and its interaction with woodchuck hepatitis virus X antigen in hepatocarcinogenesis. Feitelson MA, et al. **Oncogene** 1997 Jul 17;15(3):327–36
Resistance to p53–mediated growth arrest and apoptosis in Hep 3B hepatoma cells. Friedman SL, et al. **Oncogene** 1997 Jul 3;15(1):63–70
Isolation of a novel GPI–anchored gene specifically regulated by p53; correlation between its expression and anti–cancer drug sensitivity. Furuhata T, et al. **Oncogene** 1996 Nov 7;13(9):1965–70
Absence of p53 permits propagation of mutant cells following genotoxic damage. Griffiths SD, et al. **Oncogene** 1997 Feb 6;14(5):523–31
Determining mutational fingerprints at the human p53 locus with a yeast functional assay: a new tool for molecular epidemiology. Inga A, et al. **Oncogene** 1997 Mar 20; 14(11):1307–13
Two functional assays employed to detect an unusual mutation in the oligomerisation domain of p53 in a Li–Fraumeni like family. Lomax ME, et al. **Oncogene** 1997 Apr 17;14(15):1869–74
SAGE transcript profiles for p53–dependent growth regulation. Madden SL, et al. **Oncogene** 1997 Aug 28; 15(9):1079–85
A human papillomavirus type 18 E6/E7 transgene sensitizes mouse lens cells to human wild–type p53–mediated apoptosis. Nakamura T, et al. **Oncogene** 1997 Jun 26; 14(25):2991–8
Expression of the mutated p53 tumor suppressor protein and its molecular and biochemical characterization in multidrug resistant MCF–7/Adr human breast cancer cells. Ogretmen B, et al. **Oncogene** 1997 Jan 30;14(4):499–506
Alterations of the p16 gene in head and neck cancer: frequency and association with p53, PRAD–1 and HPV. Olshan AF, et al. **Oncogene** 1997 Feb 20;14(7):811–8
p53 mediated sensitization of squamous cell carcinoma of the head and neck to radiotherapy. Pirollo KF, et al. **Oncogene** 1997 Apr 10;14(14):1735–46
Molecular pathology in basal cell cancer with p53 as a genetic marker. Pontén F, et al. **Oncogene** 1997 Aug 28; 15(9):1059–67
Identification of an additional p53–responsive site in the human epidermal growth factor receptor gene promotor. Sheikh MS, et al. **Oncogene** 1997 Aug 28;15(9):1095–101
Activation of p53 transcriptional activity by 1,10–phenanthroline, a metal chelator and redox sensitive compound. Sun Y, et al. **Oncogene** 1997 Jan 30;14(4):385–93
A detailed study of loss of heterozygosity on chromosome 17 in tumours from Li–Fraumeni patients carrying a mutation to the TP53 gene. Varley JM, et al. **Oncogene** 1997 Feb 20;14(7):865–71
Characterization of genomic alterations associated with glioma progression by comparative genomic hybridization. Weber RG, et al. **Oncogene** 1996 Sep 5;13(5):983–94
p53 induced by ionizing radiation mediates DNA end–jointing activity, but not apoptosis of thyroid cells. Yang T, et al. **Oncogene** 1997 Apr 3;14(13):1511–9
Differential GADD45, p21CIP1/WAF1, MCL–1 and topoisomerase II gene induction and secondary DNA fragmentation after camptothecin–induced DNA damage in two mutant p53 human colon cancer cell lines. Goldwasser F, et al. **Oncol Res** 1996;8(7–8):317–23
Distinct effects of various p53 mutants on differentiation and viability of human K562 leukemia cells. Kremenetskaya OS, et al. **Oncol Res** 1997;9(4):155–66
Immunohistochemical detection of p53 in melanomas with rare p53 gene mutations is associated with mdm–2 overexpression. Poremba C, et al. **Oncol Res** 1995; 7(7–8):331–9
Loss of the tumor suppressor p53 gene at the liver cirrhosis stage in Japanese patients with hepatocellular carcinoma. Kishimoto Y, et al. **Oncology** 1997 Jul–Aug;54(4):304–10
p53 mutations and protein expression in primary cultures of normal oral mucosa in smokers and non–smokers. Colucci S, et al. **Oral Oncol** 1997 Jul;33(4):240–6

APC, K-ras codon 12 mutations and p53 gene expression in carcinoma and adenoma of the gall-bladder suggest two genetic pathways in gall-bladder carcinogenesis. Itoi T, et al. **Pathol Int** 1996 May;46(5):333–40

The correlation between p53 tumor suppressor gene and proliferating cell nuclear antigen expressions in colorectal adenocarcinoma [letter] Ozdamar SO, et al. **Pathol Int** 1995 Dec;45(12):973–4

Genes responsible for familial breast cancer. Cornelisse CJ, et al. **Pathol Res Pract** 1996 Jul;192(7):684–93 (77 ref.)

Polymorphic enzymes of xenobiotic metabolism as modulators of acquired P53 mutations in bladder cancer. Brockmöller J, et al. **Pharmacogenetics** 1996 Dec; 6(6):535–45

Cell cycle effects and concomitant p53 expression in hairless murine skin after longwave UVA (365 nm) irradiation: a comparison with UVB irradiation. de Laat A, et al. **Photochem Photobiol** 1997 Apr;65(4):730–5

The p53 tumor suppressor targets a novel regulator of G protein signaling. Buckbinder L, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7868–72

Effects of p53 mutations on apoptosis in mouse intestinal and human colonic adenomas. Fazeli A, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10199–204

Frequent clones of p53-mutated keratinocytes in normal human skin [see comments] Jonason AS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14025–9. Comment in: Proc Natl Acad Sci U S A 1997 Jan 7;94(1):11–4.

bax-deficiency promotes drug resistance and oncogenic transformation by attenuating p53-dependent apoptosis. McCurrach ME, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2345–9

Signature p53 mutation at DNA cross-linking sites in 8-methoxypsoralen and ultraviolet A (PUVA)-induced murine skin cancers. Nataraj AJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7961–5

Use of genetic suppressor elements to dissect distinct biological effects of separate p53 domains. Ossovskaya VS, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10309–14

Blastic transformation of p53-deficient bone marrow cells by p210bcr/abl tyrosine kinase. Skorski T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13137–42

The role of p53 loss in genomic instability and tumor progression in a murine mammary cancer model. Donehower LA, et al. **Prog Clin Biol Res** 1996;395:1–11 (19 ref.)

Expression of p21 and mutant p53 gene products in residual prostatic tumor cells after radical radiotherapy. Ljung G, et al. **Prostate** 1997 Jul 1;32(2):99–105

Abnormal p53 expression is rare in clinically localized human prostate cancer: comparison between immunohistochemical and molecular detection of p53 mutations. Mottaz AE, et al. **Prostate** 1997 Jun 1;31(4):209–15

Immortalized and tumorigenic adult human prostatic epithelial cell lines: characteristics and applications. Part 3. Oncogenes, suppressor genes, and applications. Webber MM, et al. **Prostate** 1997 Feb 1;30(2):136–42 (70 ref.)

Ultraviolet B-radiation dose influences the induction of apoptosis and p53 in human keratinocytes. Cotton J, et al. **Radiat Res** 1997 Feb;147(2):148–55

Spectra of X-ray-induced and spontaneous intragenic HPRT mutations in closely related human cells differentially expressing the p53 tumor suppressor gene. Phillips EN, et al. **Radiat Res** 1997 Feb;147(2):138–47

Rb and p53 gene deletions in lung adenocarcinomas from irradiated and control mice. Zhang Y, et al. **Radiat Res** 1997 Jul;148(1):81–9

P53 gene alterations in human tumors: perspectives for cancer control. Hollstein M, et al. **Recent Results Cancer Res** 1997; 143:369–89 (140 ref.)

Tumour suppressor gene p53 in the horse: identification, cloning, sequencing and a possible role in the pathogenesis of equine sarcoid. Bucher K, et al. **Res Vet Sci** 1996 Sep; 61(2):114–9

Expression and significance of tumoral suppressor p53 gene in lung adenocarcinomas. Cornianu M, et al. **Rom J Morphol Embryol** 1996 Jan-Jun;42(1-2):73–82

An adenovirus mutant that replicates selectively in p53-deficient human tumor cells [see comments] Bischoff JR, et al. **Science** 1996 Oct 18;274(5286):373–6. Comment in: Science 1996 Oct 18;274(5286):342–3.

Preferential formation of benzo[a]pyrene adducts at lung cancer mutational hotspots in P53. Denissenko MF, et al. **Science** 1996 Oct 18;274(5286):430–2

First p53 relative may be a new tumor suppressor [news] Dickman S. **Science** 1997 Sep 12;277(5332):1605–6

Will a twist of viral fate lead to a new cancer treatment? [news; comment] Pennisi E. **Science** 1996 Oct 18; 274(5286):342–3. Comment on: Science 1996 Oct 18;274(5286):373–6.

The p53-deficient mouse: a model for basic and applied cancer studies. Donehower LA. **Semin Cancer Biol** 1996 Oct;7(5):269–78 (73 ref.)

Cross-talk between cAMP and p53-generated signals in induction of differentiation and apoptosis in steroidogenic granulosa cells. Amsterdam A, et al. **Steroids** 1996 Apr; 61(4):252–6 (49 ref.)

p53 null mice, nothing to lose? [letter] Gordon AJ. **Trends Genet** 1996 Nov;12(11):444

Introduction of wild-type p53 gene downregulates the expression of H-ras gene and suppresses the growth of bladder cancer cells. Li M, et al. **Urol Res** 1995; 23(5):311–314

p53 mutation as a potential cellular factor for tumor development in enzootic bovine leukosis. Ishiguro N, et al. **Vet Immunol Immunopathol** 1997 Mar;55(4):351–8

Predominant p53 mutations in enzootic bovine leukemic cell lines. Komori H, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1-2):53–63

Canine tumour suppressor gene p53--mutation in a case of adenoma of circumanal glands. Mayr B, et al. **Vet Res Commun** 1997 Jul;21(5):369–73

p53 abnormalities are rare events in neuroendocrine (Merkel cell) carcinoma of the skin. An immunohistochemical and SSCP analysis. Schmid M, et al. **Virchows Arch** 1997 Mar; 430(3):233–7

Repression of p53 transcriptional activity by the HPV E7 proteins. Massimi P, et al. **Virology** 1997 Jan 6;227(1):255–9

Regulation of p53 gene expression by a poxviral transcription factor. Wali A, et al. **Virology** 1996 Oct 1;224(1):63–72

[Human papillomavirus infection and p53 gene mutation in primary lung cancer] Da J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):27–9 (Eng. Abstr.) **(Chi)**

[Expression of transforming growth factor alpha and p53 in non-small cell lung cancer by immunohistochemical study] Wang H, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar; 18(2):84–7 (Eng. Abstr.) **(Chi)**

[Down-regulation of p53 expression of white blood cells in patients with myelogenous leukemia] Wang S, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):102–4 (Eng. Abstr.) **(Chi)**

[The p53 tumor suppressor gene and ovarian cancer] Li G, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov; 30(11):698–701 (18 ref.) **(Chi)**

[A study on expression of tumor suppressor gene p53 in endometrial carcinoma] Xue F, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):647–50 (Eng. Abstr.) **(Chi)**

[Human papillomavirus, human cytomegalovirus and p53 gene in cervical carcinoma] Zhao W, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):654–7 (Eng. Abstr.) **(Chi)**

[Apoptosis and leukemia] Ma D, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):709–11 (22 ref.) **(Chi)**

[Studies on MDM2 oncogene expression and its effect on pancreatic carcinoma cells] Guo H, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):232–5 (Eng. Abstr.) **(Chi)**

[Detection of the expression of P21, P53, P185 proteins and the mutation of ras, p53 genes in colorectal adenoma and carcinoma] Liang Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1995 Dec;24(6):352–5 (Eng. Abstr.) **(Chi)**

[A study on p53 gene mutation, protein expression and relationship with clinico-pathological status in large cell carcinoma of the lung] Meng Y, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):212–5 (Eng. Abstr.) **(Chi)**

[Detection and clinical pathological significance of the expression of P21, P185, p53 proteins and mutation of ras, p53 genes in transitional cell carcinoma of the bladder] Yu D, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):202–5 (Eng. Abstr.) **(Chi)**

[The study of p53 gene mutation in human bladder cancer] Ding Q, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov; 33(11):684–6 (Eng. Abstr.) **(Chi)**

[Increased radiosensitivity in demonstrated p53 mutations in oral cavity carcinoma cell lines] Budach W. **Strahlenther Onkol** 1997 May;173(5):290–2 **(Ger)**

[Gene therapy with wild-type p53 in lung tumors] Dunst J. **Strahlenther Onkol** 1997 Aug;173(8):431–2 **(Ger)**

[Predictive and prognostic significance of PCNA, p53, bcl-2 and intratumor vessel density in radiochemotherapy of advanced head and neck tumors] Grabenbauer GG. **Strahlenther Onkol** 1997 Mar;173(3):174–5 **(Ger)**

[Topographic genomapping of p53 mutations in non-small cell lung cancer using in situ PCR] Ebina M, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):406–11 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Findings of genetic changes in small intestinal carcinomas] Hirai A, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:332–6 (Eng. Abstr.) **(Jpn)**

[Functional screening of p53 status in tumor cells using Saccharomyces cerevisiae] Jia LQ, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):466–70 (13 ref.) (Eng. Abstr.) **(Jpn)**

[p53 mutation does not determine prognosis in non-Hodgkin's lymphoma] Osada M, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):471–5 (25 ref.) (Eng. Abstr.) **(Jpn)**

[p53 alterations and chromosome 17 aberrations in non-small cell lung cancer] Tsuji T, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:263–8 (Eng. Abstr.) **(Jpn)**

[Recombinant virus-mediated transfer of the wild-type p53 gene is a potent therapeutic strategy for human cancer] Fujiwara T, et al. **Hum Cell** 1996 Mar;9(1):25–30 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Molecular biological diagnosis of non-small-cell carcinoma of the lung and its application to therapy] Sugio K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):403–5 **(Jpn)**

[p53 gene mutations in the human lung carcinoma] Saito M, et al. **Nippon Rinsho** 1996 Feb;54(2):497–502 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Tumor suppressor gene p53] Tokino T. **Nippon Rinsho** 1996 Apr;54(4):960–4 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Induction of hyperdiploidy and chromosome breaks in LIM1215 cells expressing the exogenous mutant p53] Agapova LS, et al. **Genetika** 1996 Aug;32(8):1080–7 (Eng. Abstr.) **(Rus)**

[Functional status of the p53 gene in murine F9 embryonal teratocarcinoma cells] Orlovskaia EI, et al. **Mol Biol (Mosk)** 1997 Mar-Apr;31(2):224–31 **(Rus)**

DRUG EFFECTS

Exon-specific DNA hypomethylation of the p53 gene of rat colon induced by dimethylhydrazine. Modulation by dietary folate. Kim YI, et al. **Am J Pathol** 1996 Oct; 149(4):1129–37

Attenuation of p53 expression and Bax down-regulation during phorbol ester mediated inhibition of apoptosis. Messmer UK, et al. **Br J Pharmacol** 1997 Jun;121(4):625–34

Molecular biomarkers for aflatoxins: from adducts to gene mutations to human liver cancer. Groopman JD, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):203–9 (40 ref.)

Progesterone induces apoptosis and up-regulation of p53 expression in human ovarian carcinoma cell lines. Bu SZ, et al. **Cancer** 1997 May 15;79(10):1944–50

Highly metastatic hepatocellular carcinomas induced in male F344 rats treated with N-nitrosomorpholine in combination with other hepatocarcinogens show a high incidence of p53 gene mutations along with altered mRNA expression of tumor-related genes. Masui T, et al. **Cancer Lett** 1997 Jan 15;112(1):33–45

Aflatoxin B1-induced DNA adduct formation and p53 mutations in CYP450-expressing human liver cell lines. Macé K, et al. **Carcinogenesis** 1997 Jul;18(7):1291–7

Histogenesis and the role of p53 and K-ras mutations in hepatocarcinogenesis by glyceryl trinitrate (nitroglycerin) in male F344 rats. Tamano S, et al. **Carcinogenesis** 1996 Nov;17(11):2477–86

Therapeutic targeting of the p53 tumor suppressor gene. Beaudry GA, et al. **Curr Opin Biotechnol** 1996 Dec; 7(6):592–600 (90 ref.)

Effect of radiation and paclitaxel on p53 expression in murine tumors sensitive or resistant to apoptosis induction. Saito Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):623–31

The effect of ACE inhibitors on the expression of matrix genes and the role of p53 and p21 (WAF1) in experimental renal fibrosis. Morrissey JJ, et al. **Kidney Int Suppl** 1996 May;54:S83–7

Ki-ras and p53 mutations are early and late events, respectively, in urethane-induced pulmonary carcinogenesis in A/J mice. Horio Y, et al. **Mol Carcinog** 1996 Dec;17(4):217–23

Enhanced restriction site mutation (RSM) analysis of 1,2-dimethylhydrazine induced mutations, using endogenous p53 intron sequences. Jenkins GJ, et al. **Mutagenesis** 1997 May;12(3):117–23

Excitotoxic lesion of rat brain with quinolinic acid induces expression of p53 messenger RNA and protein and p53-inducible genes Bax and Gadd-45 in brain areas showing DNA fragmentation. Hughes PE, et al. **Neuroscience** 1996 Oct;74(4):1143–60

Induction of apoptosis in human lung cancer cells after wild-type p53 activation by methoxyestradiol. Mukhopadhyay T, et al. **Oncogene** 1997 Jan 23;14(3):379–84

Spontaneous p53 mutation in murine mesothelial cells: increased sensitivity to DNA damage induced by asbestos and ionizing radiation. Cistulli CA, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):264–71

GENETICS

Human papillomavirus infection and TP53 gene mutation in primary cervical carcinoma. Kim JW, et al. **Acta Oncol** 1997;36(3):295–300

p53 mutations in human head and neck cancer cell lines. Kiuru A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:237–40

Immunohistochemical vs molecular biology methods. Complementary techniques for effective screening of p53 alterations in head and neck cancer. Calzolari A, et al. **Am J Clin Pathol** 1997 Jan;107(1):7–11

P53 expression in Reed-Sternberg cells does not correlate with gene mutations in Hodgkin's disease. Elenitoba-Johnson KS, et al. **Am J Clin Pathol** 1996 Dec; 106(6):728–38

p53 gene alterations in benign and malignant nerve sheath tumors [editorial; comment] Weiss SW. **Am J Clin Pathol** 1996 Sep;106(3):271–2. Comment on: Am J Clin Pathol 1996 Sep;106(3):282–8.

Expression and mutation of the tumor suppressor gene p53 in AIDS-associated Kaposi's sarcoma. Li JJ, et al. **Am J Dermatopathol** 1997 Aug;19(4):373–8

Polymerase chain reaction-based approaches for detection of allelic loss in the p53 tumor suppressor gene in colon neoplasms. Yamaguchi K, et al. **Am J Gastroenterol** 1997 Feb;92(2):307–12

Racial disparity in overexpression of the p53 tumor suppressor gene in stage I endometrial cancer. Clifford SL,

et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S229–32

Abnormal expression of the p53 tumor suppressor gene in the conjunctiva of patients with pterygium. Tan DT, et al. **Am J Ophthalmol** 1997 Mar;123(3):404–5

K-ras and p53 mutations in hamster pancreatic ductal adenocarcinomas and cell lines. Erill N, et al. **Am J Pathol** 1996 Oct;149(4):1333–9

Molecular genetic analysis of giant cell glioblastomas. Meyer-Puttlitz B, et al. **Am J Pathol** 1997 Sep;151(3):853–7

Detection of p53 gene mutations in cytopathology and biopsy specimens from patients with lung cancer. Murakami I, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):1117–23

A chinook salmon PCR-RFLP marker in the p53 locus. Park LK, et al. **Anim Genet** 1996 Apr;27(2):127–8

Barrett's esophagus. The significance of p53 in clinical practice. Ireland AP, et al. **Ann Surg** 1997 Jan;225(1):17–30 (80 ref.)

p53 overexpression in squamous cell carcinoma of the esophagus. Baron PL, et al. **Ann Surg Oncol** 1997 Jan; 4(1):37–45

Detection of Barrett's adenocarcinoma of the gastric cardia with sucrase isomaltase and p53. Iannettoni MD, et al. **Ann Thorac Surg** 1996 Nov;62(5):1460–5; discussion 1465–6

Deoxyadenosine-resistant mouse leukemia L1210 cell lines with alterations in early response genes and p53. Cory JG, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3483–9

Expression of p53 and bcl-2 in primary locally confined renal cell carcinomas: no evidence for prognostic significance. Hofmockel G, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3807–11

Concomitant point mutation of tumor suppressor gene p53 and oncogene c-N-ras in malignant neuroendocrine pancreatic tumor. Hrašćan R, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3761–6

N-acetylation polymorphism in patients with lung cancer and its association with p53 gene mutation. Oyama T, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):577–81

Cytochrome P450 2E1 polymorphism as a risk factor for lung cancer: in relation to p53 gene mutation. Oyama T, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):583–7

In vivo adenovirus-mediated p53 tumor suppressor gene therapy for colorectal cancer. Spitz FR, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3415–22

P53 mutations in mammary tumor cell lines and corresponding tumor tissues in the dog. Van Leeuwen IS, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3737–44

Demonstration of human papillomavirus type 16-related DNA and absence of detectable p53 gene mutations in widespread cutaneous squamous cell carcinomas after oral psoralen with UV-A treatment [letter] Rübben A, et al. **Arch Dermatol** 1996 Oct;132(10):1257–9

p53 mutation as a prognostic marker in advanced laryngeal carcinoma. Department of Veterans Affairs Laryngeal Cancer Cooperative Study Group. Bradford CR, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):605–9

Novel p53 mutation in a malignant tumor secreting vasoactive intestinal peptide. Lin HJ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):125–8

Mutated p53 gene is an independent adverse predictor of survival in colon carcinoma. Pricolo VE, et al. **Arch Surg** 1997 Apr;132(4):371–4; discussion 374–5

Looking at p53: theoretical implications and methodological aspects. Opalka B, et al. **Arch Toxicol Suppl** 1997;19:17–28 (35 ref.)

CpG methylation inactivates the transcriptional activity of the promoter of the human p53 tumor suppressor gene. Schroeder M, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):403–6

DNA template as a source of artifact in the detection of p53 gene mutations using archived tissue. Shiao YH, et al. **Biotechniques** 1997 Apr;22(4):608–10, 612

Susceptibility to endometrial cancer: influence of allelism at p53, glutathione S-transferase (GSTM1 and GSTT1) and cytochrome P-450 (CYP1A1) loci. Esteller M, et al. **Br J Cancer** 1997;75(9):1385–8

Dysregulation of autocrine TGF-beta isoform production and ligand responses in human tumour-derived and Ha-ras-transfected keratinocytes and fibroblasts. Fahey MS, et al. **Br J Cancer** 1996 Oct;74(7):1074–80

K-ras and p53 mutations are an independent unfavourable prognostic indicator in patients with non-small-cell lung cancer. Fukuyama Y, et al. **Br J Cancer** 1997;75(8):1125–30

p53 gene aberrations in non-small-cell lung carcinomas from a smoking population. Liloglou T, et al. **Br J Cancer** 1997; 75(8):1119–24

Overexpression of p53 mRNA in colorectal cancer and its relationship to p53 gene mutation. el-Mahdani N, et al. **Br J Cancer** 1997;75(4):528–36

Screening for TP53 mutations in patients and tumours from 109 Swedish breast cancer families. Zelada-Hedman M, et al. **Br J Cancer** 1997;75(8):1201–4

Multigenetic lesions in infant acute leukaemias: correlations with ALL-1 gene status. Cimino G, et al. **Br J Haematol** 1997 Feb;96(2):308–13

Alterations of p53 and Rb genes in a novel human GM-CSF-dependent myeloid cell line (OHN-GM) established from therapy-related leukaemia. Nagai M, et al. **Br J Haematol** 1997 Aug;98(2):392–8

p53 and K-ras status in duodenal adenomas in familial adenomatous polyposis. Kashiwagi H, et al. **Br J Surg** 1997 Jun;84(6):826–9

p53 mutations in primary colorectal adenocarcinomas and liver metastases. Yao J, et al. **Br J Surg** 1996 Sep; 83(9):1245–6

The relevance of p53 mutation in urological malignancies: possible clinical implications for bladder cancer. Nouri AM, et al. **Br J Urol** 1996 Sep;78(3):337–44 (53 ref.)

Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al. **Brain Pathol** 1996 Jul;6(3):217–23; discussion 23–4

p53 protein accumulation and p53 gene mutation in esophageal carcinoma. A molecular and immunohistochemical study with clinicopathologic correlations. Coggi G, et al. **Cancer** 1997 Feb 1;79(3):425–32

A case-matched molecular comparison of extraovarian versus primary ovarian adenocarcinoma. Kowalski LD, et al. **Cancer** 1997 Apr 15;79(8):1587–94

Alterations of the p53 tumor suppressor gene in carcinoma in situ of the testis. Kuczyk MA, et al. **Cancer** 1996 Nov 1;78(9):1958–66

Detection of numeric abnormalities of chromosome 17 and p53 deletions by fluorescence in situ hybridization in pleomorphic adenomas and carcinomas in pleomorphic adenoma. Correlation with p53 expression. Li X, et al. **Cancer** 1997 Jun 15;79(12):2314–9

p53 and MDM2 alterations in osteosarcomas: correlation with clinicopathologic features and proliferative rate. Lonardo F, et al. **Cancer** 1997 Apr 15;79(8):1541–7

Genetic transmission of susceptibility to cancer in families of children with soft tissue sarcomas. Moutou C, et al. **Cancer** 1996 Oct 1;78(7):1483–91

Molecular pathology of primary and metastatic ductal pancreatic lesions: analyses of mutations and expression of the p53, mdm-2, and p21/WAF-1 genes in sporadic and familial lesions. Ruggeri BA, et al. **Cancer** 1997 Feb 15; 79(4):700–16

Morphologic, histologic, and molecular similarities between adenocarcinomas arising in the gastric stump and the intact stomach. Safatle-Ribeiro AV, et al. **Cancer** 1996 Dec 1; 78(11):2288–99

p53 mutations do not predict response to paclitaxel/radiation for nonsmall cell lung carcinoma. Safran H, et al. **Cancer** 1996 Sep 15;78(6):1203–10

p53 mutations in lung cancer following radiation therapy for Hodgkin's disease. De Benedetti VM, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Feb;5(2):93–8

p53 mutations and occupational exposures in a surgical series of lung cancers. Harty LC, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec; 5(12):997–1003

Quantitative detection of ultraviolet-specific p53 mutations in normal skin from Japanese patients. Ouhtit A, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jun;6(6):433–8

p53 alterations but no human papillomavirus infection in preinvasive and advanced squamous esophageal cancer in Italy. Rugge M, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Mar;6(3):171–6

Glutathione-S-Transferase M1 and codon 72 p53 polymorphisms in a northwestern Mediterranean population and their relation to lung cancer susceptibility. To-Figueras J, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):337–42

p53 codon 72 polymorphism in nasopharyngeal carcinoma [letter] Yung WC, et al. **Cancer Genet Cytogenet** 1997 Feb; 93(2):181–2

DNA alterations in sporadic colorectal tumors do not correlate with tumor staging diagnosed by the TNM system. Deuter R, et al. **Cancer Lett** 1996 Dec 3; 109(1-2):161–9

Multiple synchronous primaries of the gastrointestinal tract: a molecular case report. Herring JA, et al. **Cancer Lett** 1996 Dec 20;110(1-2):1–9

Induction of invasive squamous cell carcinomas in the forestomach of (C3H x MSM)F1, MSM, and C3H mice by N-methyl-N-nitrosourea and mutational analysis of the H-ras and p53 genes. Masui T, et al. **Cancer Lett** 1997 Jan 1;111(1-2):97–104

Analysis of the equine tumor suppressor gene p53 in the normal horse and in eight cutaneous squamous cell carcinomas. Pazzi KA, et al. **Cancer Lett** 1996 Oct 1; 107(1):125–30

P53 gene mutations in osteosarcomas in the dog. van Leeuwen IS, et al. **Cancer Lett** 1997 Jan 1;111(1-2):173–8

Role of the p53 tumor suppressor gene in the tumorigenicity of Burkitt's lymphoma cells. Cherney BW, et al. **Cancer Res** 1997 Jun 15;57(12):2508–15

p53 mutations and chromosome instability in basal cell carcinomas developed at an early or late age. D'Errico M, et al. **Cancer Res** 1997 Feb 15;57(4):747–52

p53 mutations, chronic hepatitis B virus infection, and aflatoxin exposure in hepatocellular carcinoma in Taiwan. Lunn RM, et al. **Cancer Res** 1997 Aug 15;57(16):3471–7

The relationship between TP53 mutations and overexpression of p53 and prognosis in malignant gliomas of childhood. Pollack IF, et al. **Cancer Res** 1997 Jan 15;57(2):304–9

Orthotopic xenografts of human pancreatic carcinomas acquire genetic aberrations during dissemination in nude mice. Reyes G, et al. **Cancer Res** 1996 Dec 15;56(24):5713–9

Germ-line mutations of TP53 in Li-Fraumeni families: an extended study of 39 families. Varley JM, et al. **Cancer Res** 1997 Aug 1;57(15):3245–52

Genetic alterations of p53 and ras genes in 1,3-butadiene- and 2',3'-dideoxycytidine-induced lymphomas. Zhuang SM, et al. **Cancer Res** 1997 Jul 1;57(13):2710–4

TP53 tumour suppressor gene: clues to molecular carcinogenesis and cancer therapy. Wang XW, et al. **Cancer Surv** 1996;28:169–96 (231 ref.)

Genetic alterations in N-bis(2-hydroxypropyl)nitrosamine-induced rat transplantable thyroid carcinoma lines: analysis of the TSH-R, G(alpha)s, ras and p53 genes. Kitahori Y, et al. **Carcinogenesis** 1997 Feb;18(2):265–9

Lack of p53 and ras mutations in Helicobacter hepaticus-induced liver tumors in A/JCr mice. Sipowicz MA, et al. **Carcinogenesis** 1997 Jan;18(1):233–6

Loss of Apc and the entire chromosome 18 but absence of mutations at the Ras and Tp53 genes in intestinal tumors from Apc1638N, a mouse model for Apc-driven carcinogenesis. Smits R, et al. **Carcinogenesis** 1997 Feb; 18(2):321–7

Silent and multiple mutations in p53 and the question of the hypermutability of tumors. Strauss BS. **Carcinogenesis** 1997 Aug;18(8):1445–52

Decreased immunoglobulin deposition in tumors and increased immature B cells in p53-null mice. Shick L, et al. **Cell Growth Differ** 1997 Feb;8(2):121–31

P53 gene abnormalities in osteosarcoma. Guo W, et al. **Chin Med J (Engl)** 1996 Oct;109(10):752–5

PCR-SSCP analysis of the p53 gene in tumours of the adrenal gland. Ballantine DM, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):582–3

The expression of p53 in patients with coexistent breast carcinoma and malignant melanoma. Barnes N, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):185–6

Laboratory probing of oncogenes from human liquid and solid specimens as markers of exposure to toxicants. Nelson E. **Crit Rev Toxicol** 1996 Sep;26(5):483–549 (397 ref.)

Rapid diagnosis of germline p53 mutation using the enzyme mismatch cleavage method. Giunta C, et al. **Diagn Mol Pathol** 1996 Dec;5(4):265–70

Molecular genetic and immunohistochemical analysis of the tumor suppressor genes Rb and p53 in palmar and aggressive fibromatosis. Muller E, et al. **Diagn Mol Pathol** 1996 Sep;5(3):194–200

Detection of p53 gene abnormality by sequence analysis of archival paraffin tissue. A comparison with fresh-frozen specimens. Nadji M, et al. **Diagn Mol Pathol** 1996 Dec; 5(4):279–83

Identification of p53 mutations in archival prostate tumors. Sensitivity of an optimized single-strand conformational polymorphism (SSCP) assay. Shi XB, et al. **Diagn Mol Pathol** 1996 Dec;5(4):271–8

Correlation between p53 immunostaining patterns and gene sequence mutations in breast carcinoma. Visscher DW, et al. **Diagn Mol Pathol** 1996 Sep;5(3):187–93

Loss of Rb activates both p53-dependent and independent cell death pathways in the developing mouse nervous system. Macleod KF, et al. **EMBO J** 1996 Nov 15; 15(22):6178–88

p53 tumor suppressor gene: at the crossroads of molecular carcinogenesis, molecular epidemiology, and cancer risk assessment. Harris CC. **Environ Health Perspect** 1996 May; 104 Suppl 3:435–9 (43 ref.)

Hepatocellular carcinoma p53 G > T transversions at codon 249: the fingerprint of aflatoxin exposure? Lasky T, et al. **Environ Health Perspect** 1997 Apr;105(4):392–7 (48 ref.)

P53 mutations associated with breast, colorectal, liver, lung, and ovarian cancers. Lasky T, et al. **Environ Health Perspect** 1996 Dec;104(12):1324–31

Alteration of p53 gene structure and function in laryngeal squamous cell cancer. Golusinski W, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S133–7

A new germline TP53 gene mutation in a family with Li-Fraumeni syndrome. Dockhorn-Dworniczak B, et al. **Eur J Cancer** 1996 Jul;32A(8):1359–65

The status of p53 in the metastatic progression of colorectal cancer. Heide I, et al. **Eur J Cancer** 1997 Jul;33(8):1314–22

SSCP pattern indicative for p53 mutation is related to advanced stage and high-grade of tongue cancer. Atula S, et al. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):222–9

Identification of clonal mutations in morphologically normal mucosa of the aerodigestive tract. Waridel F, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:67–73

Apoptosis and p53 suppressor gene protein expression in human anterior pituitary adenomes. Green VL, et al. **Eur J Endocrinol** 1997 Apr;136(4):382–7

Analysis of the p53 and MDM-2 gene in acute myeloid leukemia. Seliger B, et al. **Eur J Haematol** 1996 Sep; 57(3):230–40

Analysis of the p53 gene mutations in patients with multiple primary cancers of the oesophagus. Mayama T, et al. **Eur J Surg Oncol** 1997 Aug;23(4):298–303

The 72nd codon change of p53 in primary renal cell carcinoma was confirmed as a polymorphism among Japanese. Kageyama Y, et al. **Eur Urol** 1997;31(1):81–5

Value of p53 expression, cellular proliferation, and DNA content as prognostic indicators in renal cell carcinoma. Papadopoulos I, et al. **Eur Urol** 1997;32(1):110–7

Genetic alterations in sporadic and Crohn's-associated adenocarcinomas of the small intestine. Rashid A, et al. **Gastroenterology** 1997 Jul;113(1):127–35

Alterations of p53 gene in soft tissue and bone tumors. Roessner A, et al. **Gen Diagn Pathol** 1997 Jul;143(1):1–13 (61 ref.)

Abnormal expression and mutation of p53 in cervical cancer--a study at protein, RNA and DNA levels. Ngan HY, et al. **Genitourin Med** 1997 Feb;73(1):54–8

p53 and HER-2/neu overexpression in ovarian borderline tumors. Eltabbakh GH, et al. **Gynecol Oncol** 1997 May; 65(2):218–24

Analysis of Ki-ras, p53, and MDM2 genes in uterine leiomyomas and leiomyosarcomas. Hall KL, et al. **Gynecol Oncol** 1997 May;65(2):330–5

Poor correlation with loss of heterozygosity on chromosome 17p and p53 mutations in ovarian cancers. Sakamoto T, et al. **Gynecol Oncol** 1996 Nov;63(2):173–9

DNA ploidy and expression of p53 and C-erbB-2 in extramammary Paget's disease of the vulva. Scheistrøen M, et al. **Gynecol Oncol** 1997 Jan;64(1):88–92

Detection of p53 point mutations in primary human vulvar cancer by PCR and temperature gradient gel electrophoresis. Sliutz G, et al. **Gynecol Oncol** 1997 Jan; 64(1):93–8

Early occurrence and prognostic significance of p53 alteration in primary carcinoma of the fallopian tube. Zheng W, et al. **Gynecol Oncol** 1997 Jan;64(1):38–48

p53 immunostaining and image cytometry DNA analysis in precancerous and cancerous squamous epithelial lesions of the larynx. Munck-Wikland E, et al. **Head Neck** 1997 Mar; 19(2):107–15

Overexpression of p53 is associated with growth pattern and prognosis in advanced gastric cancer. Ichiyoshi Y, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):546–53

Relationship of p53 and c-erbB-2 expression to histopathological features, Helicobacter pylori infection and prognosis in gastric cancer. Shun CT, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):604–9

Histological progression of follicular lymphoma associated with p53 mutation and rearrangement of the C-MYC gene. Takimoto Y, et al. **Hiroshima J Med Sci** 1996 Jun; 45(2):69–73

p53 mutation and protein alteration in 50 gliomas. Retrospective study by DNA-sequencing techniques and immunohistochemistry. von Eckardstein K, et al. **Histol Histopathol** 1997 Jul;12(3):611–6

Characterization of four short tandem repeat loci (THO1, VWA31/A, CD4, and TP53) in northern Portugal. Gusmão L, et al. **Hum Biol** 1997 Feb;69(1):31–40

Molecular therapy with recombinant p53 adenovirus in an androgen-independent, metastatic human prostate cancer model. Ko SC, et al. **Hum Gene Ther** 1996 Sep 10; 7(14):1683–91

Transferrin-liposome-mediated p53 sensitization of squamous cell carcinoma of the head and neck to radiation in vitro. Xu L, et al. **Hum Gene Ther** 1997 Mar 1;8(4):467–75

Effect of p53 alleles on placental weight. Birgander R, et al. **Hum Hered** 1996 Sep-Oct;46(5):290–7

Identification of polymorphisms in the p53 gene by denaturing gradient gel blots. Nogueira CP. **Hum Hered** 1997 Jan-Feb;47(1):52–7

Three germline mutations in the TP53 gene. Cornelis RS, et al. **Hum Mutat** 1997;9(2):157–63

Single-step DGGE-based mutation scanning of the p53 gene: application to genetic diagnosis of colorectal cancer. Guldberg P, et al. **Hum Mutat** 1997;9(4):348–55

Mutations in the p53 gene in pulmonary blastomas: immunohistochemical and molecular studies [see comments] Bodner SM, et al. **Hum Pathol** 1996 Nov; 27(11):1117–23. Comment in: Hum Pathol 1997 Jul;28(7):873–4.

Presence of human papillomavirus in esophageal squamous cell carcinomas of Hong Kong Chinese and its relationship with p53 gene mutation. Lam KY, et al. **Hum Pathol** 1997 Jun;28(6):657–63

Lymphoepithelial carcinoma of the larynx and hypopharynx: study of eight cases with relationship to Epstein-Barr virus and p53 gene alterations, and review of the literature. MacMillan C, et al. **Hum Pathol** 1996 Nov;27(11):1172–9 (44 ref.)

Nuclear overexpression of p53 protein does not correlate with gene mutation in primary peritoneal carcinoma. Marchenko ND, et al. **Hum Pathol** 1997 Sep;28(9):1002–6

p53 mutations in solar keratoses. Park WS, et al. **Hum Pathol** 1996 Nov;27(11):1180–4

Loss of heterozygosity and microsatellite alterations in p53 and RB genes in adenoid cystic carcinoma of the salivary glands. Yamamoto Y, et al. **Hum Pathol** 1996 Nov; 27(11):1204–10

Mutations of the Ki-ras, p53 and APC genes in adenocarcinomas of the human small intestine. Arai M, et al. **Int J Cancer** 1997 Feb 7;70(4):390–5

Transformation of normal human fibroblasts into immortalized cells with the mutant p53 gene and X-rays. Fushimi K, et al. **Int J Cancer** 1997 Jan 6;70(1):135–40

Mutation of p53 gene in hepatocellular carcinoma cell lines with HBX DNA. Kang MS, et al. **Int J Cancer** 1996 Sep 17;67(6):898–902

Adenovirus-mediated p53 gene transfer suppresses growth of human glioblastoma cells in vitro and in vivo. Köck H, et al. **Int J Cancer** 1996 Sep 17;67(6):808–15

Prevalence and predictive value of p53 mutation in patients with oesophageal squamous cell carcinomas: a prospective clinico-pathological study and survival analysis of 70 patients. Lam KY, et al. **Int J Cancer** 1997 Apr 22; 74(2):212–9

Establishment and characterization of human gastric carcinoma cell lines. Park JG, et al. **Int J Cancer** 1997 Feb 7;70(4):443–9

p53 mutations in relation to human papillomavirus type 16 infection in squamous cell carcinomas of the head and neck. Scholes AG, et al. **Int J Cancer** 1997 May 29;71(5):796–9

Detection of cellular heterogeneity by DNA ploidy, 17 chromosome, and p53 gene in primary carcinoma and metastasis in a case of ovarian cancer. Calugi A, et al. **Int J Gynecol Pathol** 1996 Jan;15(1):77–81

Transfection of p53-knockout mouse fibroblasts with wild-type p53 increases the thermosensitivity and stimulates apoptosis induced by heat stress. Matsumoto H, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1; 39(1):197–203

Transfection of p53-knockout mouse fibroblasts with wild-type p53 increases the thermosensitivity and stimulates apoptosis induced by heat stress. Matsumoto H, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15; 38(5):1089–95

Fluorescence-based polymerase chain reaction-single-strand conformation polymorphism analysis of p53 gene by capillary electrophoresis. Katsuragi K, et al. **J Chromatogr A** 1996 Sep 13;744(1–2):311–20

Immunocytochemical detection of p53 in human thyroid carcinomas is associated with mutation and immortalization of cell lines. Jossart GH, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3498–504

Hair follicle dermal papilla cell lines from p53-knockout mice. Hanzawa C, et al. **J Dermatol Sci** 1997 May; 15(1):59–63

p53 gene mutation analysis in porokeratosis and porokeratosis-associated squamous cell carcinoma. Ninomiya Y, et al. **J Dermatol Sci** 1997 Mar;14(3):173–8

p53 mutation in squamous cell carcinomas from psoriasis patients treated with psoralen + UVA (PUVA). Nataraj AJ, et al. **J Invest Dermatol** 1997 Aug;109(2):238–43

Molecular biology of head and neck tumorigenesis: the role of p53 expression and genetic instability. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S3–10 (43 ref.)

Genetic instabilities of chromosome 9, 17 and accumulation of p53 overexpression during multistage tumorigesis in head and neck cancer. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S104–12

Genomic instability, mutators, and the development of cancer: is there a role for p53? [editorial; comment] Fishel R. **J Natl Cancer Inst** 1996 Nov 20;88(22):1608–9. Comment on: J Natl Cancer Inst 1996 Nov 20;88(22):1665–70.

p53 abnormalities in primary prostate cancer: single-strand conformation polymorphism analysis of complementary DNA in comparison with genomic DNA. The Cooperative Prostate Network. Gumerlock PH, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):66–71

p53 tumor suppressor gene status and the degree of genomic instability in sporadic colorectal cancers [see comments] Kahlenberg MS, et al. **J Natl Cancer Inst** 1996 Nov 20; 88(22):1665–70. Comment in: J Natl Cancer Inst 1996 Nov 20;88(22):1608–9.

p53 mutation and locoregional treatment failure in head and neck squamous cell carcinoma. Koch WM, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1580–6

Re: the p53 gene in breast cancer: prognostic value of complemcntary DNA sequencing versus immunohistochemistry [letter] Silvestrini R. **J Natl Cancer Inst** 1996 Oct 16;88(20):1499–500

p53 protein in pediatric malignant astrocytomas: a study of 21 patients. Bhattacharjee MB, et al. **J Neurooncol** 1997 May;32(3):225–33

Induction of differentiation by wild-type p53 gene in a human glioma cell line. Kokunai T, et al. **J Neurooncol** 1997 Apr; 32(2):125–33

Expression patterns of the p53 tumor suppressor gene and the mdm2 proto-oncogene in human meningiomas. Pykett MJ, et al. **J Neurooncol** 1997 Mar;32(1):39–44

Determination of p53 mutations, EGFR overexpression, and loss of p16 expression in pediatric glioblastomas. Sure U, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):782–9

Alterations of p16/CDKN2, p53 and ras genes in oral squamous cell carcinomas and premalignant lesions. Matsuda H, et al. **J Oral Pathol Med** 1996 May;25(5):232–8

p53 gene mutations and HPV infection in primary head and neck squamous cell carcinomas do not correlate with overall survival: a long-term follow-up study. Riethdorf S, et al. **J Oral Pathol Med** 1997 Aug;26(7):315–21

Mutation analysis of p53 gene in childhood malignant solid tumors. Kusafuka T, et al. **J Pediatr Surg** 1997 Aug; 32(8):1175–80

p53 gene mutation is not directly related to tumoricidal effects of preoperative radiochemohyperthermia therapy for rectal cancers. Ichikawa D, et al. **J Surg Oncol** 1996 Oct;63(2):87–90

Mutations of the P53 tumor suppressor gene as clonal marker for multiple primary lung cancers. Mitsudomi T, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):354–60

Mutation of the tumor suppressor gene p53 in human prostate and bladder cancers--investigation by temperature gradient gel electrophoresis (TGGE). Schlechte HH, et al. **J Urol** 1997 Mar;157(3):1049–53

Mutational analysis of the p53 and K-ras genes and allelotype study of the Rb-1 gene for investigating the pathogenesis of combined hapatocellular-cholangiocellular carcinomas. Imai Y, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1056–62

Demonstration of ras and p53 gene mutations in carcinomas in the forestomach and intestine and soft tissue sarcomas induced by N-methyl-N-nitrosourea in the rat. Matsumoto K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):129–36

Prognostic significance of the p53 mutation in esophageal cancer. Uchino S, et al. **Jpn J Clin Oncol** 1996 Oct; 26(5):287–92

p53 mutations in Hodgkin's disease. Chen WG, et al. **Lab Invest** 1996 Oct;75(4):519–27

P53 and p21 (Waf1/Cip1) mRNA expression associated with DNA damage and repair in acute immune complex alveolitis in mice. Kuwano K, et al. **Lab Invest** 1997 Feb; 76(2):161–9

p53 mutations in BRCA1-associated familial breast cancer [letter] Crook T, et al. **Lancet** 1997 Aug 30;350(9078):638–9

p53 in drug resistance in ovarian cancer [letter; comment] Lavarino C, et al. **Lancet** 1997 May 24;349(9064):1556. Comment on: Lancet 1997 Mar 15;349(9054):744–5.

Role of p53 in drug resistance in ovarian cancer [see comments] Shelling AN. **Lancet** 1997 Mar 15; 349(9054):744–5. Comment in: Lancet 1997 May 24;349(9064):1556.

The loss of heterozygosity in retinoblastoma and p53 suppressor genes as a prognostic indicator for head and neck cancer. Gleich LL, et al. **Laryngoscope** 1996 Nov; 106(11):1378–81

Concomitant p53 mutation and MYCN amplification in neuroblastoma. Manhani R, et al. **Med Pediatr Oncol** 1997 Sep;29(3):206–7

p53 mutations in multiple urothelial carcinomas: a molecular analysis of the development of multiple carcinomas. Goto K, et al. **Mod Pathol** 1997 May;10(5):428–37

A rapid and nonisotopic method for the screening and sequencing of p53 gene mutations in formalin-fixed, paraffin-embedded tumors. Soong R, et al. **Mod Pathol** 1997 Mar;10(3):252–8

Functional characterization in vivo of mutant p53 molecules derived from squamous cell carcinomas of the head and neck. Cardinali M, et al. **Mol Carcinog** 1997 Feb;18(2):78–88

Functional characterization of p53 molecules expressed in human squamous cell carcinomas of the head and neck. Yeudall WA, et al. **Mol Carcinog** 1997 Feb;18(2):89–96

Illegitimate recombination leading to allelic loss and unbalanced translocation in p53-mutated human lymphoblastoid cells. Honma M, et al. **Mol Cell Biol** 1997 Aug;17(8):4774–81

A nonsense mutation (Arg-196-Term) in exon 6 of the human TP53 gene identified in small cell lung carcinoma. Hayes VM, et al. **Mol Cell Probes** 1996 Oct;10(5):393–5

Hepatocellular carcinoma and p53 gene therapy [news] Fricker J. **Mol Med Today** 1996 Sep;2(9):361

p53 gene mutations, and CYP1A1 and GSTM1 genotypes in pulmonary squamous cell carcinomas. Ohshima S, et al. **Mol Pathol** 1997 Apr;50(2):108–10

p53 gene mutations in multiple myeloma. Owen RG, et al. **Mol Pathol** 1997 Feb;50(1):18–20

Somatic mutation theory, DNA repair rates, and the molecular epidemiology of p53 mutations. Holmquist GP, et al. **Mutat Res** 1997 Mar;386(1):69–101 (160 ref.)

Cytotoxic and mutagenic responses to X-rays and chemical mutagens in normal and p53-mutated human lymphoblastoid cells. Honma M, et al. **Mutat Res** 1997 Mar 4;374(1):89–98

A mutation in the p53 tumor suppressor gene of AHH-1 tk+/- human lymphoblastoid cells. Morris SM, et al. **Mutat Res** 1996 Sep 23;356(2):129–34

Mutations of the p53 gene as a prognostic factor in aggressive B-cell lymphoma. Ichikawa A, et al. **N Engl J Med** 1997 Aug 21;337(8):529–34

Partial rescue of Brca1 (5–6) early embryonic lethality by p53 or p21 null mutation. Hakem R, et al. **Nat Genet** 1997 Jul;16(3):298–302

Sunlight and skin cancer: inhibition of p53 mutations in UV-irradiated mouse skin by sunscreens. Ananthaswamy HN, et al. **Nat Med** 1997 May;3(5):510–4

p53 gene mutation in relation to p53 protein accumulation in male and female breast cancer. Nayak BK, et al. **Neoplasma** 1996;43(5):305–10

p53 mutations in MeIQ-induced mouse forestomach tumors. Makino H, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb; 64(1):39–44

Chromosome 17 copy numbers and incidence of p 53 gene deletion in gastric cancer cells. Dual color fluorescence in situ hybridization analysis. Suzuki S, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb;64(1):22–9

p53 and APC gene mutations: software and databases. Béroud C, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):138

Databases and software for the analysis of mutations in the human p53 gene, the human hprt gene and both the lacI and lacZ gene in transgenic rodents. Cariello NF, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):136–7

Database of p53 gene somatic mutations in human tumors and cell lines: updated compilation and future prospects. Hainaut P, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):151–7

Molecular epidemiology of breast cancers in northern and southern Japan: the frequency, clustering, and patterns of p53 gene mutations differ among these two low-risk populations. Blaszyk H, et al. **Oncogene** 1996 Nov 21; 13(10):2159–66

Increased mutation frequency and altered spectrum in one of four thymic lymphomas derived from tumor prone p53/Big Blue double transgenic mice. Buettner VL, et al. **Oncogene** 1996 Dec 5;13(11):2407–13

Two tandem and independent sub-activation domains in the amino terminus of p53 require the adaptor complex for activity. Candau R, et al. **Oncogene** 1997 Aug 14; 15(7):807-16

Loss of heterozygosity of a locus on 17p13.3, independent of p53, is associated with higher grades of astrocytic tumours. Chattopadhyay P, et al. **Oncogene** 1997 Aug 14; 15(7):871-4

Inverse correlation between RER+ status and p53 mutation in colorectal cancer cell lines. Cottu PH, et al. **Oncogene** 1996 Dec 19;13(12):2727-30

Identification of p53 genetic suppressor elements which confer resistance to cisplatin. Gallagher WM, et al. **Oncogene** 1997 Jan 16;14(2):185-93

A transcript exhibiting homology to endogenous rat retroviral-like elements is regulated by p53. Gangopadhyay SB, et al. **Oncogene** 1996 Dec 19;13(12):2731-5

p21(WAF1/CIP1) response to genotoxic agents in wild-type TP53 expressing breast primary tumours. Guillot C, et al. **Oncogene** 1997 Jan 9;14(1):45-52

Positive and negative regulatory elements in the murine p53 promoter. Roy B, et al. **Oncogene** 1996 Dec 5; 13(11):2359-66

Field cancerisation and polyclonal p53 mutation in the upper aero-digestive tract. Waridel F, et al. **Oncogene** 1997 Jan 16;14(2):163-9

Cell cycle arrest defect in Li-Fraumeni Syndrome: a mechanism of cancer predisposition? Williams KJ, et al. **Oncogene** 1997 Jan 23;14(3):277-82

Research helps shed light on role of apoptosis in tumor development and growth [news] **Oncology (Huntingt)** 1997 Aug;11(8):1240

Correlation between p53 mutation and cyclin D1 amplification in had and neck squamous cell carcinoma. Mineta H, et al. **Oral Oncol** 1997 Jan;33(1):42-6

Adenocarcinoma of the cardia in a young man: detection of somatic p53 mutation by immunohistochemistry and automated direct sequencing. Poremba C, et al. **Pathol Res Pract** 1995 Oct;191(10):1004-9

The role of p53 in cell cycle regulation. Shaw PH. **Pathol Res Pract** 1996 Jul;192(7):669-75 (75 ref.)

p53 gene mutations are rare in patients but common in patient-originating cell lines in multiple myeloma. Ollikainen H, et al. **Scand J Clin Lab Invest** 1997 Jul; 57(4):281-9

Discordance in p53 mutations when comparing ascites and solid tumors from patients with serous ovarian cancer. Provencher DM, et al. **Tumour Biol** 1997;18(3):167-74

Immunohistochemical determination of p53 protein in prostatic cancer and prostatic intraepithelial neoplasms. Yaman O, et al. **Urol Int** 1997;58(4):199-202

The role of the p53 tumor suppressor gene in prostate cancer: a possible biomarker? Heidenberg HB, et al. **Urology** 1996 Dec;48(6):971-9 (66 ref.)

[Detection of point mutation of p53 gene by silver staining PCR-SSCP in paraffin-embedded malignant fibrous histiocytoma] Li J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):13-5 (Eng. Abstr.) **(Chi)**

[Correlation of multiple gene changes with malignant phenotype of human gastric carcinoma] Gao C, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):671-5 (Eng. Abstr.) **(Chi)**

[Point mutation of p53 and detection of human papillomavirus DNA in bronchogenic carcinoma] Zhang X, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):673-5 (Eng. Abstr.) **(Chi)**

[A method for detection of germinal mutations in the p53 tumor suppressor gene] Sedláček Z, et al. **Cas Lek Cesk** 1996 Dec 4;135(23):762-7 (Eng. Abstr.) **(Cze)**

[Gene p53 mutation and prognosis in bladder tumors] Polito M, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:65-8 (Eng. Abstr.) **(Ita)**

[Prognostic value of the immunohistochemical overexpression of p53 in breast carcinoma: facts or artifacts?] **Pathologica** 1996 Feb;88(1):58-63 (35 ref.) **(Ita)**

[Antioncogene p53 and apoptosis response: new hypotheses on the molecular bases of tumor resistance to radiotherapy] Corvò R. **Radiol Med (Torino)** 1996 Sep;92(3):298-302 (21 ref.) (Eng. Abstr.) **(Ita)**

[Detectability and diagnostic criteria of p53 gene mutations in human oral squamous cell carcinoma using yeast functional assay] Kashiwazaki H. **Hokkaido Igaku Zasshi** 1997 Mar;72(2):211-24 (Eng. Abstr.) **(Jpn)**

[Aberrations of the p 53 gene in roentgenographically occult squamous cell carcinoma of the lung] Endoh C, et al. **Kyobu Geka** 1996 Nov;49(12):990-3 (Eng. Abstr.) **(Jpn)**

[p53 oncogene in the laryngeal cancer] Golusiński W, et al. **Otolaryngol Pol** 1996;50(4):372-8 (Eng. Abstr.) **(Pol)**

[Diagnostic and prognostic value of p53 oncogene and the selected neoplastic markers (Ki67, PCNA, DNA ploidy) of the ultrastructure in patients with laryngeal cancer] Golusiński W, et al. **Otolaryngol Pol** 1996;50(6):607-17 (Eng. Abstr.) **(Pol)**

[Epidermoid carcinoma of the cervix uteri: molecular abnormalities of p53 and rb genes] Wistuba I, et al. **Rev Med Chil** 1996 May;124(5):553-60 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Distinct patterns of Fas cell surface expression during development of T- or B-lymphocyte lineages in normal, scid, and mutant mice lacking or overexpressing p53, bcl-2, or rag-2 genes. Li T, et al. **Cell Growth Differ** 1996 Jan; 7(1):107-14

Decreased immunoglobulin deposition in tumors and increased immature B cells in p53-null mice. Shick L, et al. **Cell Growth Differ** 1997 Feb;8(2):121-31

Detection of circulating anti-p53 antibodies in patients with colorectal carcinoma and the antibody's relation to clinical factors. Shibata Y, et al. **Dis Colon Rectum** 1996 Nov; 39(11):1269-74

The humoral response to the tumor-suppressor gene-product p53 in human cancer: implications for diagnosis and therapy. Soussi T. **Immunol Today** 1996 Aug;17(8):354-6

[P53 antibodies: a new method for the analysis of alterations of the p53 gene: application to breast cancer (editorial)] Soussi T, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):232-4 (13 ref.) (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Inability to induce the alteration of tumorigenicity and chemosensitivity of p53-null human pancreatic carcinoma cells after the transduction of wild-type p53 gene. Kimura M, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):879-83

Reciprocal expression of Bcl-2 and p53 in breast ductal carcinoma. Lee WY, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):3007-12

Effect of penclomedine (NSC-338720) on telomere fusions, chromatin blebbing, and cell viability with and without telomerase activity and abrogated p53 function. Pandita TK, et al. **Biochem Pharmacol** 1997 Feb 7;53(3):409-15

Induction of p21 by the Wilms' tumor suppressor gene WT1. Englert C, et al. **Cancer Res** 1997 Apr 15;57(8):1429-34

Adenovirus-based transfer of wild-type p53 gene increases ovarian tumor radiosensitivity. Gallardo D, et al. **Cancer Res** 1996 Nov 1;56(21):4891-3

Cloning of P2XM, a novel human P2X receptor gene regulated by p53. Urano T, et al. **Cancer Res** 1997 Aug 1;57(15):3281-7

Regulation of genomic instability in preneoplastic cells. Tlsty TD. **Cancer Surv** 1996;28:217-24 (14 ref.)

The role of p53 in malignancy. Keith FJ, et al. **Cancer Treat Res** 1996;84:113-37 (150 ref.)

Ha-rasVal12 but not p53Ser247 leads to a significant neoplastic transformation rate of the putative rat liver stem cells (oval cell). Becker R, et al. **Carcinogenesis** 1996 Dec; 17(12):2635-40

Wildtype p53 is required for heat shock and ultraviolet light enhanced repair of a UV-damaged reporter gene. McKay BC, et al. **Carcinogenesis** 1997 Feb;18(2):245-9

p53, the cellular gatekeeper for growth and division. Levine AJ. **Cell** 1997 Feb 7;88(3):323-31 (55 ref.)

Absence of p53 in a mouse mammary tumor model promotes tumor cell proliferation without affecting apoptosis. Jones JM, et al. **Cell Growth Differ** 1997 Aug;8(8):829-38

Interleukin 1 beta converting enzyme-like proteases are essential for p53-mediated transcriptionally dependent apoptosis. Sabbatini P, et al. **Cell Growth Differ** 1997 Jun; 8(6):643-53

Cell proliferation and nuclear abnormalities are increased and apoptosis is decreased in the epidermis of the p53 null mouse after topical application of benzo[a]pyrene. Miller ML, et al. **Cell Prolif** 1996 Oct;29(10):561-76

p53 in signaling checkpoint arrest or apoptosis. Bates S, et al. **Curr Opin Genet Dev** 1996 Feb;6(1):12-8 (68 ref.)

Tumour suppressor genes and angiogenesis: the role of TP53 in fibroblasts. Stellmach V, et al. **Eur J Cancer** 1996 Dec; 32A(14):2394-400

Interactive effects of nitric oxide and the p53 tumor suppressor gene in carcinogenesis and tumor progression. Ambs S, et al. **FASEB J** 1997 May;11(6):443-8 (89 ref.)

The effect of different TP53 mutations on the chromosomal stability of a human colonic adenoma derived cell line with endogenous wild type TP53 activity, before and after DNA damage. Williams AC, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):44-52

Regulation of cyclin-dependent kinase inhibitor p21(WAF1/Cip1/Sdi1) gene expression in hepatic regeneration. Albrecht JH, et al. **Hepatology** 1997 Mar; 25(3):557-63

P53 deficiency produces fewer regenerating spermatogenic tubules after irradiation. Hendry JH, et al. **Int J Radiat Biol** 1996 Dec;70(6):677-82

Mdm-2: "big brother" of p53. Momand J, et al. **J Cell Biochem** 1997 Mar 1;64(3):343-52 (98 ref.)

Apoptosis in bone marrow cells of mice with different p53 genotypes after gamma-rays irradiation in vitro. Cui YF, et al. **J Environ Pathol Toxicol Oncol** 1995;14(3-4):159-63

p53, apoptosis and human cancers. Wang TH, et al. **J Formos Med Assoc** 1996 Jul;95(7):509-22 (151 ref.)

Wild-type p53 gene-induced morphological changes and growth suppression in hepatoma cells. Terai S, et al. **J Gastroenterol** 1997 Jun;32(3):330-7

Structure and function of the p53 tumor suppressor gene: clues for rational cancer therapeutic strategies. Harris CC. **J Natl Cancer Inst** 1996 Oct 16;88(20):1442-55 (288 ref.)

Infection of human papillomavirus (HPV) and p53 over-expression in human female genital tract carcinoma. Anwar K, et al. **JPMA J Pak Med Assoc** 1996 Oct; 46(10):220-4

A mutation in the p53 tumor suppressor gene of AHH-1 tk+/- human lymphoblastoid cells. Morris SM, et al. **Mutat Res** 1996 Sep 23;356(2):129-34

p53-deficient mice are protected against adrenalectomy-induced apoptosis. Sakhi S, et al. **Neuroreport** 1996 Dec 20;8(1):233-5

Intercellular induction of apoptosis in transformed cells does not depend on p53. Hipp ML, et al. **Oncogene** 1997 Aug 14;15(7):791-7

Antisense GADD45 expression results in decreased DNA repair and sensitizes cells to u.v.-irradiation or cisplatin. Smith ML, et al. **Oncogene** 1996 Nov 21;13(10):2255-63

Complex interplay among apoptosis factors: RB, p53, E2F, TGF-beta, cell cycle inhibitors and the bcl2 gene family. Chiarugi V, et al. **Pharmacol Res** 1997 Apr;35(4):257-61 (46 ref.)

Expression of wild-type p53 tumor suppressor gene and its possible involvement in the apoptosis of thyroid tumors. Kikuchi S, et al. **Surg Today** 1997;27(3):226-33

[Role of the p53 gene in apoptosis] Takahashi R, et al. **Nippon Rinsho** 1996 Jul;54(7):1881-7 (31 ref.) (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

Induction of cancer, actinic keratosis, and specific p53 mutations by UVB light in human skin maintained in severe combined immunodeficient mice. Nomura T, et al. **Cancer Res** 1997 Jun 1;57(11):2081-4

p53 gene mutation analysis in tumors of patients exposed to alpha-particles. Hollstein M, et al. **Carcinogenesis** 1997 Mar;18(3):511-6

Radon and lung carcinogenesis: mutability of p53 codons 249 and 250 to 238Pu alpha-particles in human bronchial epithelial cells. Hussain SP, et al. **Carcinogenesis** 1997 Jan; 18(1):121-5

Induction of multiple PCR-SSCPE mobility shifts in p53 exons in cultures of normal human urothelium exposed to low-dose gamma-radiation. Colucci S, et al. **Int J Radiat Biol** 1997 Jul;72(1):21-31

Regulation of p53 in response to ionizing radiation in ataxia telangiectasia fibroblasts. Jung M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):417-22

Effect of radiation and paclitaxel on p53 expression in murine tumors sensitive or resistant to apoptosis induction. Saito Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Jun 1; 38(3):623-31

Chronic ultraviolet exposure-induced p53 gene alterations in Sencar mouse skin carcinogenesis model. Tong Y, et al. **J Toxicol Environ Health** 1997 Jun 27;51(3):219-34

The tumor suppressor p53 modifies mutational processes in a human lymphoblastoid cell line. Xia F, et al. **Mutat Res** 1997 Jan 3;373(1):87-97

The p53 response to ionising radiation in adult and developing murine tissues. MacCallum DE, et al. **Oncogene** 1996 Dec 19;13(12):2575-87

Tumor suppressor gene mutations and photocarcinogenesis. Ziegler A, et al. **Photochem Photobiol** 1996 Apr;63(4):432-5 (38 ref.)

UV-induced mutagenesis of human p53 in a vector replicated in Saccharomyces cerevisiae. Moshinsky DJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2266-71

Cytogenetic damage and the radiation-induced G1-phase checkpoint. Gupta N, et al. **Radiat Res** 1996 Mar; 145(3):289-98

The p53 gene as a modifier of intrinsic radiosensitivity: implications for radiotherapy. Bristow RG, et al. **Radiother Oncol** 1996 Sep;40(3):197-223 (297 ref.)

Spontaneous p53 mutation in murine mesothelial cells: increased sensitivity to DNA damage induced by asbestos and ionizing radiation. Cistulli CA, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):264-71

GENES, PLANT

Isolation and classification of a family of cyclin gene homologues in Lupinus luteus. Deckert J, et al. **Acta Biochim Pol** 1997;44(1):37-42

Nodulation genes in the Rhizobium--plant signal exchange. Lorkiewicz Z. **Acta Biochim Pol** 1997;44(1):1-12 (94 ref.)

Study of the alcohol dehydrogenase-1 (Adh1) gene in tetraploid corn: expression in the pollen grains and restriction fragment length polymorphism. Hajós-Novák M, et al. **Acta Biol Hung** 1997;48(1):87-94

Cloning and characterization of cDNAs from genes differentially expressed during the strawberry fruit ripening process by a MAST-PCR-SBDS method. Medina-Escobar N, et al. **Anal Biochem** 1997 Jun 1; 248(2):288-96

Transient expression of multiple genes in salinity-stressed young seedlings of rice (Oryza sativa L.) cv. bura rata. Ramani S, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):663-7

Characterization, chromosomal mapping, and expression of different ubiquitin fusion protein genes in tissues from control and heat-shocked maize seedlings. Liu L, et al. **Biochem Cell Biol** 1996;74(1):9-19

Characterization and expression analysis of a banana gene encoding 1-aminocyclopropane-1-carboxylate oxidase. Huang PL, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):941-50

The methylation pattern of a cytosine

DNA-methyltransferase gene in Arabidopsis thaliana plants. Kutueva LI, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):347–53

Cysteine biosynthesis in higher plants: a new member of the Arabidopsis thaliana serine acetyltransferase small gene-family obtained by functional complementation of an Escherichia coli cysteine auxotroph. Howarth JR, et al. **Biochim Biophys Acta** 1997 Feb 7;1350(2):123–7

The proliferating cell nuclear antigen (PCNA) gene family in Zea mays is composed of two members that have similar expression programmes. López I, et al. **Biochim Biophys Acta** 1997 Jul 17;1353(1):1–6

Cloning and characterization of a cotton lipid transfer protein gene specifically expressed in fiber cells. Ma DP, et al. **Biochim Biophys Acta** 1997 Jan 21;1344(2):111–4

cDNA cloning and expression of a class II acidic chitinase from sweet orange. Nairn CJ, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):22–6

The upstream domain of soybean oleosin genes contains regulatory elements similar to those of legume storage proteins. Rowley DL, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):1–4

Cloning of a cDNA encoding a putative metal-transporting P-type ATPase from Arabidopsis thaliana. Tabata K, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):1–6

Illuminating flowers: CONSTANS induces LEAFY expression. Blázquez MA. **Bioessays** 1997 Apr;19(4):277–9 (21 ref.)

Simple 5' extension method allowing transcript discrimination. Breda C, et al. **Biotechniques** 1996 Jan; 20(1):24–6

Construction of a restriction map and gene map of the lettuce chloroplast small single-copy region using Southern cross-hybridization. Mitchelson KR. **Biotechniques** 1996 Jan;20(1):130–5

The barley Mlo gene: a novel control element of plant pathogen resistance. Büschges R, et al. **Cell** 1997 Mar 7; 88(5):695–705

The CLAVATA1 gene encodes a putative receptor kinase that controls shoot and floral meristem size in Arabidopsis. Clark SE, et al. **Cell** 1997 May 16;89(4):575–85

FCA, a gene controlling flowering time in Arabidopsis, encodes a protein containing RNA-binding domains. Macknight R, et al. **Cell** 1997 May 30;89(5):737–45

Studies on the transfer techniques of three maize genes. Wang G, et al. **Chin J Biotechnol** 1996;12(1):53–60

Relationship between the levels of wheat-rye metaphase I chromosomal pairing and recombination revealed by GISH. Benavente E, et al. **Chromosoma** 1996 Aug; 105(2):92–6

Direct chromosome mapping of plant genes by in situ polymerase chain reaction (in situ PCR). Mukai Y, et al. **Chromosome Res** 1996 Aug;4(5):401–4

Significance of circadian gene expression in higher plants. Beator J, et al. **Chronobiol Int** 1996 Nov;13(5):319–39 (128 ref.)

Genetic modification of proteins in food. Day PR. **Crit Rev Food Sci Nutr** 1996;36 Suppl:S49–67 (76 ref.)

Plant pathology: many roads lead to resistance. Boyes DC, et al. **Curr Biol** 1996 Jun 1;6(6):634–7 (25 ref.)

UNIFOLIATA regulates leaf and flower morphogenesis in pea. Hofer J, et al. **Curr Biol** 1997 Aug 1;7(8):581–7

Making asymmetric flowers. Running MP. **Curr Biol** 1997 Feb 1;7(2):R89–91 (10 ref.)

Cell lineage patterns and homeotic gene activity during Antirrhinum flower development. Vincent CA, et al. **Curr Biol** 1995 Dec 1;5(12):1449–1458

Flower development: repressing reproduction. Weigel D. **Curr Biol** 1997 Jun 1;7(6):R373–5 (14 ref.)

The actin gene of the glaucocystophyte Cyanophora paradoxa: analysis of the coding region and introns, and an actin phylogeny of eukaryotes. Bhattacharya D, et al. **Curr Genet** 1997 May;31(5):439–46

The rapeseed mitochondrial gene for subunit 2 of the NADH dehydrogenase complex: a trans-spliced structure is conserved in one of the smallest plant mitochondrial genomes. Handa H, et al. **Curr Genet** 1997 Apr;31(4):336–42

The apocytochrome-b gene in Chlorogonium elongatum (Chlamydomonadaceae): an intronic GIY-YIG ORF in green algal mitochondria. Kroymann J, et al. **Curr Genet** 1997 May;31(5):414–8

Control of flowering time in plants. Amasino RM. **Curr Opin Genet Dev** 1996 Aug;6(4):480–7 (63 ref.)

Bivariate flow karyotyping in broad bean (Vicia faba). Lucretti S, et al. **Cytometry** 1997 Jul 1;28(3):236–42

The STUD gene is required for male-specific cytokinesis after telophase II of meiosis in Arabidopsis thaliana. Hulskamp M, et al. **Dev Biol** 1997 Jul 1;187(1):114–24

Genetic control of flower shape in Antirrhinum majus. Almeida J, et al. **Development** 1997 Apr;124(7):1387–92

Temperature-sensitive mutations that arrest Arabidopsis shoot development. Pickett FB, et al. **Development** 1996 Dec;122(12):3799–807

SHORT INTEGUMENT (SIN1), a gene required for ovule development in Arabidopsis, also controls flowering time. Ray A, et al. **Development** 1996 Sep;122(9):2631–8

Structural and genetic analysis of epidermal cell differentiation in Arabidopsis primary roots. Schneider K, et al. **Development** 1997 May;124(9):1789–98

Dissection of sexual organ ontogenesis: a genetic analysis of ovule development in Arabidopsis thaliana. Schneitz K, et al. **Development** 1997 Apr;124(7):1367–76

TETRASPORE is required for male meiotic cytokinesis in Arabidopsis thaliana. Spielman M, et al. **Development** 1997 Jul;124(13):2645–57

Tobacco plants carrying a tms locus of Ti-plasmid origin and the Hl-1 allele are tumor prone. Meyer AD, et al. **Differentiation** 1997 May;61(4):213–21

Physical mapping of rice chromosomes 4 and 7 using YAC clones. Koike K, et al. **DNA Res** 1997 Feb 28;4(1):27–33

PCR-based isolation and chromosome assignment of members of the Em gene family from wheat. Van Campenhout S, et al. **DNA Seq** 1997;7(5):289–300

Systemic acquired silencing: transgene-specific post-transcriptional silencing is transmitted by grafting from silenced stocks to non-silenced scions. Palauqui JC, et al. **EMBO J** 1997 Aug 1;16(15):4738–45

The Pto kinase conferring resistance to tomato bacterial speck disease interacts with proteins that bind a cis-element of pathogenesis-related genes. Zhou J, et al. **EMBO J** 1997 Jun 2;16(11):3207–18

A root-specific iron-regulated gene of tomato encodes a lysyl-tRNA-synthetase-like protein. Giritch A, et al. **Eur J Biochem** 1997 Mar 1;244(2):310–7

Differential expression of three Arabidopsis genes encoding the B' regulatory subunit of protein phosphatase 2A. Latorre KA, et al. **Eur J Biochem** 1997 Apr 1;245(1):156–63

Starch synthesis, and tuber storage protein genes are differently expressed in Solanum tuberosum and in Solanum brevidens. Bánfalvi Z, et al. **FEBS Lett** 1996 Apr 1; 383(3):159–64

Expression of a highly basic peroxidase gene in NaCl-adapted tomato cell suspensions. Medina MI, et al. **FEBS Lett** 1997 May 5;407(3):357–60

A 45-bp proximal region containing AACA and GCN4 motif is sufficient to confer endosperm-specific expression of the rice storage protein glutelin gene, GluA-3. Yoshihara T, et al. **FEBS Lett** 1996 Apr 1;383(3):213–8

Construction and expression of a synthetic wheat storage protein gene. Anderson OD, et al. **Gene** 1996 Sep 26; 174(1):51–8

Heterologous expression of alkaloid biosynthetic genes—a review. Kutchan TM. **Gene** 1996 Nov 7;179(1):73–81

Characterization of the maize OHP1 gene: evidence of gene copy variability among inbreds. Pysh LD, et al. **Gene** 1996 Oct 24;177(1–2):203–8

The an11 locus controlling flower pigmentation in petunia encodes a novel WD-repeat protein conserved in yeast, plants, and animals. de Vetten N, et al. **Genes Dev** 1997 Jun 1;11(11):1422–34

The ROOT HAIR DEFECTIVE3 gene encodes an evolutionarily conserved protein with GTP-binding motifs and is required for regulated cell enlargement in Arabidopsis. Wang H, et al. **Genes Dev** 1997 Mar 15; 11(6):799–811

Molecular mapping and tagging of genes in crop plants. Sharma RP, et al. **Genetica** 1996 May;97(3):313–20 (36 ref.)

Physical and genetic mapping of chromosome 9S in maize using mutations with terminal deficiencies. Chao S, et al. **Genetics** 1996 Aug;143(4):1785–94

A dominant mutation in the Chlamydomonas reinhardtii nuclear gene SIM30 suppresses translational defects caused by initiation codon mutations in chloroplast genes. Chen X, et al. **Genetics** 1997 Apr;145(4):935–43

Genetic map of diploid wheat, Triticum monococcum L., and its comparison with maps of Hordeum vulgare L. Dubcovsky J, et al. **Genetics** 1996 Jun;143(2):983–99

Genetic interactions among sex-determining genes in the fern Ceratopteris richardii. Eberle JR, et al. **Genetics** 1996 Mar; 142(3):973–85

Identification and high-density mapping of gene-rich regions in chromosome group 5 of wheat. Gill KS, et al. **Genetics** 1996 Jun;143(2):1001–12

Identification and high-density mapping of gene-rich regions in chromosome group 1 of wheat. Gill KS, et al. **Genetics** 1996 Dec;144(4):1883–91

Interactions of liguleless1 and liguleless2 function during ligule induction in maize. Harper L, et al. **Genetics** 1996 Dec;144(4):1871–82

Isolation and characterization of rice R genes: evidence for distinct evolutionary paths in rice and maize. Hu J, et al. **Genetics** 1996 Mar;142(3):1021–31

Intragenic recombination in the Adh locus of the wild plant Arabidopsis thaliana. Innan H, et al. **Genetics** 1996 Aug; 143(4):1761–70

Gametophyte genetics in Zea mays L.: dominance of a restoration-of-fertility allele (Rf3) in diploid pollen. Kamps TL, et al. **Genetics** 1996 Mar;142(3):1001–7

Genetics of hybrid sterility and hybrid breakdown in an intersubspecific rice (Oryza sativa L.) population. Li Z, et al. **Genetics** 1997 Apr;145(4):1139–48

Comparison of flowering time genes in Brassica rapa, B. napus and Arabidopsis thaliana. Osborn TC, et al. **Genetics** 1997 Jul;146(3):1123–9

Extragenic suppressors of the Arabidopsis det1 mutant identify elements of flowering-time and light-response regulatory pathways. Pepper AE, et al. **Genetics** 1997 Apr; 145(4):1125–37

Genepool variation in genus Glycine subgenus Soja revealed by polymorphic nuclear and chloroplast microsatellites. Powell W, et al. **Genetics** 1996 Oct;144(2):793–803

The maize transposable element Ac induces recombination between the donor site and an homologous ectopic sequence. Shalev G, et al. **Genetics** 1997 Jul;146(3):1143–51

The mac1 gene: controlling the commitment to the meiotic pathway in maize. Sheridan WF, et al. **Genetics** 1996 Mar; 142(3):1009–20

The location of genes governing long first internode of corn. Troyer AF. **Genetics** 1997 Apr;145(4):1149–54

Transposon-disruption of a maize nuclear gene, tha1, encoding a chloroplast SecA homologue: in vivo role of cp-SecA in thylakoid protein targeting. Voelker R, et al. **Genetics** 1997 Feb;145(2):467–78

The molecular diversity of the 5S rRNA gene in Kengyilia alatavica (Drobov) J.L. Yang, Yen & Baum (Poaceae:Triticeae): potential genomic assignment of different rDNA units. Baum BR, et al. **Genome** 1997 Apr; 40(2):215–28

Genetic and contig map of a 2200-kb region encompassing 5.5 cM on chromosome 1 of Arabidopsis thaliana. Hardtke CS, et al. **Genome** 1996 Dec;39(6):1086–92

Assignment of a gene(s) conferring apomixis in Tripsacum to a chromosome arm: cytological and molecular evidence. Kindiger B, et al. **Genome** 1996 Dec;39(6):1133–41

Genetic variation at marker loci and in quantitative traits in natural populations of Arabidopsis thaliana. Kuittinen H, et al. **Heredity** 1997 Aug;79 (Pt 2):144–52

QTL analysis of seed dormancy in Arabidopsis using recombinant inbred lines and MQM mapping. van Der Schaar W, et al. **Heredity** 1997 Aug;79 (Pt 2):190–200

Genetic control of flower morphogenesis in Pisum sativum (L.). Ferrandiz C, et al. **Int J Dev Biol** 1996;Suppl 1:129S–130S

Different roles of flowering time genes in the activation of floral initiation genes in Arabidopsis. Madueño F, et al. **Int J Dev Biol** 1996;Suppl 1:125S–126S

Identification of histidine 31 and cysteine 95 in the active site of self-incompatibility associated S6-RNase in Nicotiana alata. Ishimizu T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1007–13

Cloning and characterization of the Arabidopsis cyclic phosphodiesterase which hydrolyzes ADP-ribose 1",2"-cyclic phosphate and nucleoside 2',3'-cyclic phosphates. Genschik P, et al. **J Biol Chem** 1997 May 16; 272(20):13211–9

Molecular cloning of acetone cyanohydrin lyase from flax (Linum usitatissimum). Definition of a novel class of hydroxynitrile lyases. Trummler K, et al. **J Biol Chem** 1997 Feb 21;272(8):4770–4

CHRC, encoding a chromoplast-specific carotenoid-associated protein, is an early gibberellic acid-responsive gene. Vishnevetsky M, et al. **J Biol Chem** 1997 Oct 3;272(40):24747–50

The kinesin-homologous protein encoded by the Chlamydomonas FLA10 gene is associated with basal bodies and centrioles. Vashishtha M, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):541–9

Short and long distance spread of potato leafroll luteovirus: effects of host genes and transgenes conferring resistance to virus accumulation in potato. Derrick PM, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):243–51

Amino acid changes in the putative replicase of tomato mosaic tobamovirus that overcome resistance in Tm-1 tomato. Hamamoto H, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):461–4

Gene structure of a chlorophyll a/c-binding protein from a brown alga: presence of an intron and phylogenetic implications. Caron L, et al. **J Mol Evol** 1996 Sep; 43(3):270–80

Common features of analogous replacement histone H3 genes in animals and plants. Waterborg JH, et al. **J Mol Evol** 1996 Sep;43(3):194–206

Screening of rice genes from the cDNA catalog using the data obtained by protein sequencing. Hirano H. **J Protein Chem** 1997 Jul;16(5):533–6

Cloning of novel cytochrome P450 gene sequences via polymerase chain reaction amplification. Holton TA, et al. **Methods Enzymol** 1996;272:275–83

A recently silenced, duplicate PgiC locus in Clarkia. Gottlieb LD, et al. **Mol Biol Evol** 1997 Feb;14(2):125–32

Detection of single-copy genes in DNA from transgenic plants by nonradioactive Southern blot analysis. McCabe MS, et al. **Mol Biotechnol** 1997 Feb;7(1):79–84

Use of viral replicons for the expression of genes in plants. Porta C, et al. **Mol Biotechnol** 1996 Jun;5(3):209–21 (73 ref.)

Isolation and characterization of a rice MADS box gene belonging to the AGL2 gene family. Kang HG, et al. **Mol Cells** 1997 Feb 28;7(1):45–51

Promoter sequences of two homologous pectin esterase genes from Chinese cabbage (Brassica campestris L. ssp. pekinensis) and pollen-specific expression of the GUS gene driven by a promoter in tobacco plants. Kim HU, et al. **Mol Cells** 1997 Feb 28;7(1):21–7

Nucleotide sequence of a ubiquitin-extension protein gene in Nicotiana tabacum and its expression pattern upon heat shock. Park SM, et al. **Mol Cells** 1997 Feb 28;7(1):125–30

Structure and expression of the AWI 31 gene specifically induced by wounding in Arabidopsis thaliana. Yang KY, et al. **Mol Cells** 1997 Feb 28;7(1):131–5

The KEULE gene is involved in cytokinesis in Arabidopsis. Assaad FF, et al. **Mol Gen Genet** 1996 Dec 13;253(3):267–77

Cycloheximide induces a subset of low temperature-inducible genes in maize. Berberich T, et al. **Mol Gen Genet** 1997 Apr 16;254(3):275–83

Identification of transposon-like elements in non-coding

regions of tomato ACC oxidase genes. Blume B, et al. **Mol Gen Genet** 1997 Apr 16;254(3):297–303

Tomato chromosome 1: high resolution genetic and physical mapping of the short arm in an interspecific Lycopersicon esculentum x L. peruvianum cross. Bonnema G, et al. **Mol Gen Genet** 1997 Jan 27;253(4):455–62

Expression of genes for a defensin and a proteinase inhibitor in specific areas of the shoot apex and the developing flower in tomato. Brandstädter J, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):146–54

Chromosome landing at the Arabidopsis TORNADO1 locus using an AFLP-based strategy. Cnops G, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):32–41

A new method for the identification and isolation of genes essential for Arabidopsis thaliana seed germination. Dubreucq B, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):42–50

Molecular and functional characterization of Slide, an Ac-like autonomous transposable element from tobacco. Grappin P, et al. **Mol Gen Genet** 1996 Sep 25;252(4):386–97

MADS box genes expressed in developing inflorescences of rice and sorghum. Greco R, et al. **Mol Gen Genet** 1997 Feb 20;253(5):615–23

PHH1, a novel gene from Arabidopsis thaliana that encodes a protein similar to plant blue-light photoreceptors and microbial photolyases. Hoffman PD, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):259–65

Molecular evolution and functional relevance of the chalcone synthase genes of pea. Ito M, et al. **Mol Gen Genet** 1997 Jun;255(1):28–37

The IBP genes of maize are expressed in non-meristematic, elongating cells of the seedling and in abortive floral organs. Klinge B, et al. **Mol Gen Genet** 1997 Jul; 255(3):248–57

A tripartite group II intron in mitochondria of an angiosperm plant. Knoop V, et al. **Mol Gen Genet** 1997 Jul; 255(3):269–76

Chromosome mapping of low-temperature induced Wcs120 family genes and regulation of cold-tolerance expression in wheat. Limin AE, et al. **Mol Gen Genet** 1997 Feb 27; 253(6):720–7

Genetic analysis of two tomato mutants affected in the regulation of iron metabolism. Ling HQ, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):87–92

Gene isolation in Arabidopsis thaliana by conditional overexpression of cDNAs toxic to Saccharomyces cerevisiae: identification of a novel early response zinc-finger gene. Martínez-García M, et al. **Mol Gen Genet** 1996 Oct 16;252(5):587–96

Mapping QTLs for submergence tolerance in rice by AFLP analysis and selective genotyping. Nandi S, et al. **Mol Gen Genet** 1997 Jun;255(1):1–8

Alloplasmic wheats with Aegilops crassa cytoplasm which express photoperiod-sensitive homeotic transformations of anthers, show alterations in mitochondrial DNA structure and transcription. Ogihara Y, et al. **Mol Gen Genet** 1997 Jun;255(1):45–53

Cloning and molecular analysis of the Arabidopsis gene Terminal Flower 1. Ohshima S, et al. **Mol Gen Genet** 1997 Mar 26;254(2):186–94

Identification of a new cis-regulatory element in a Nicotiana tabacum polyubiquitin gene promoter. Plesse B, et al. **Mol Gen Genet** 1997 Apr 16;254(3):258–66

The 28.5-kDa iron-sulfur protein of mitochondrial complex I is encoded in the nucleus in plants. Schmidt-Bleek K, et al. **Mol Gen Genet** 1997 Jan 27;253(4):448–54

Simple inheritance of key traits distinguishing maize and teosinte. Szabó VM, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):33–41

Homologous recombination involving cox2 is responsible for a mutation in the cmS-specific mitochondrial locus of Petunia. Yesodi V, et al. **Mol Gen Genet** 1997 Jun; 255(1):106–14

Phylogeny of Poaceae subfamily Pooideae based on chloroplast ndhF gene sequences. Catalán P, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):150–66

rbcL sequences: a promising tool for the molecular systematics of the fern genus Trichomanes (Hymenophyllaceae)? Dubuisson J. **Mol Phylogenet Evol** 1997 Oct;8(2):128–38

Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA sequence data. Petersen G, et al. **Mol Phylogenet Evol** 1997 Apr;7(2):217–30

Defense reaction in Medicago sativa: a gene encoding a class 10 PR protein is expressed in vascular bundles. Breda C, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):713–9

The coat protein is required for the elicitation of the Capsicum L2 gene-mediated resistance against the tobamoviruses. de la Cruz A, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):107–13

Cloning and mapping of a putative barley NADPH-dependent HC-toxin reductase. Han F, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):234–9

Evolutionary diversity of symbiotically induced nodule MADS box genes: characterization of nmhC5, a member of a novel subfamily. Heard J, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):665–76

Identification and map location of TTR1, a single locus in Arabidopsis thaliana that confers tolerance to tobacco ringspot nepovirus. Lee JM, et al. **Mol Plant Microbe Interact** 1996 Nov;9(8):729–35

A nodule-specific gene family from Alnus glutinosa encodes glycine- and histidine-rich proteins expressed in the early stages of actinorhizal nodule development. Pawlowski K, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):656–64

The Vicia faba lipoxygenase gene VfLOX1 is expressed in the root nodule parenchyma. Perlick AM, et al. **Mol Plant Microbe Interact** 1996 Dec;9(9):860–3

Two distinct uricase II (nodulin 35) genes are differentially expressed in soybean plants. Takane K, et al. **Mol Plant Microbe Interact** 1997 Aug;10(6):735–41

Two PR-1 genes from tomato are differentially regulated and reveal a novel mode of expression for a pathogenesis-related gene during the hypersensitive response and development. Tornero P, et al. **Mol Plant Microbe Interact** 1997 Jul;10(5):624–34

The cloned gene, Xa21, confers resistance to multiple Xanthomonas oryzae pv. oryzae isolates in transgenic plants. Wang GL, et al. **Mol Plant Microbe Interact** 1996 Dec;9(9):850–5

A PCR-based approach for isolating pathogen resistance genes from potato with potential for wide application in plants [see comments] Leister D, et al. **Nat Genet** 1996 Dec;14(4):421–9. Comment in: Nat Genet 1996 Dec;14(4):376–8.

Non-canonical introns are at least 10(9) years old [letter] Wu HJ, et al. **Nat Genet** 1996 Dec;14(4):383–4

Memorizing the floral ABC [news; comment] Jürgens G. **Nature** 1997 Mar 6;386(6620):17. Comment on: Nature 1997 Mar 6;385(6620):44–51.

A promoter element active in run-off transcription controls the expression of two cistrons of nad and rps genes in Nicotiana sylvestris mitochondria. Lelandais C, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4798–804

Microamplification of specific chromosome sequences; an improved method for genome analysis. Ponelies N, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3555–7

Sequence analysis of an 81 kb contig from Arabidopsis thaliana chromosome III. Quigley F, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4313–8

Molecular characterization of the CER1 gene of arabidopsis involved in epicuticular wax biosynthesis and pollen fertility. Aarts MG, et al. **Plant Cell** 1995 Dec;7(12):2115–27

A novel extensin gene encoding a hydroxyproline-rich glycoprotein requires sucrose for its wound-inducible expression in transgenic plants. Ahn JH, et al. **Plant Cell** 1996 Sep;8(9):1477–90

Genes involved in organ separation in Arabidopsis: an analysis of the cup-shaped cotyledon mutant. Aida M, et al. **Plant Cell** 1997 Jun;9(6):841–57

A deletion in the PHYD gene of the Arabidopsis Wassilewskija ecotype defines a role for phytochrome D in red/far-red light sensing. Aukerman MJ, et al. **Plant Cell** 1997 Aug;9(8):1317–26

The maize repressor-like gene intensifier1 shares homology with the r1/b1 multigene family of transcription factors and exhibits missplicing. Burr FA, et al. **Plant Cell** 1996 Aug;8(8):1249–59

Control of flower development and phyllotaxy by meristem identity genes in antirrhinum. Carpenter R, et al. **Plant Cell** 1995 Dec;7(12):2001–11

A gene fusion at a homeobox locus: alterations in leaf shape and implications for morphological evolution. Chen JJ, et al. **Plant Cell** 1997 Aug;9(8):1289–304

Distinct UV-B and UV-A/blue light signal transduction pathways induce chalcone synthase gene expression in Arabidopsis cells. Christie JM, et al. **Plant Cell** 1996 Sep; 8(9):1555–67

KNAT1 induces lobed leaves with ectopic meristems when overexpressed in Arabidopsis. Chuck G, et al. **Plant Cell** 1996 Aug;8(8):1277–89

Molecular organization and tissue-specific expression of an Arabidopsis 14-3-3 gene. Daugherty CJ, et al. **Plant Cell** 1996 Aug;8(8):1239–48

Tissue-specific accumulation of MURB, a protein encoded by MuDR, the autonomous regulator of the Mutator transposable element family. Donlin MJ, et al. **Plant Cell** 1995 Dec;7(12):1989–2000

Distinct classes of cdc2-related genes are differentially expressed during the cell division cycle in plants. Fobert PR, et al. **Plant Cell** 1996 Sep;8(9):1465–76

Plant inositol monophosphatase is a lithium-sensitive enzyme encoded by a multigene family. Gillaspy GE, et al. **Plant Cell** 1995 Dec;7(12):2175–85

Structure and expression of a plant U1 snRNP 70K gene: alternative splicing of U1 snRNP 70K pre-mRNAs produces two different transcripts. Golovkin M, et al. **Plant Cell** 1996 Aug;8(8):1421–35

Resistance gene-dependent plant defense responses. Hammond-Kosack KE, et al. **Plant Cell** 1996 Oct; 8(10):1773–91 (150 ref.)

An octadecanoid pathway mutant (JL5) of tomato is compromised in signaling for defense against insect attack. Howe GA, et al. **Plant Cell** 1996 Nov;8(11):2067–77

Molecular and cytogenetic analyses of stably and unstably expressed transgene loci in tobacco. Iglesias VA, et al. **Plant Cell** 1997 Aug;9(8):1251–64

Alleles of Pto and Fen occur in bacterial speck-susceptible and fenthion-insensitive tomato cultivars and encode active protein kinases. Jia Y, et al. **Plant Cell** 1997 Jan;9(1):61–73

FPF1 promotes flowering in Arabidopsis. Kania T, et al. **Plant Cell** 1997 Aug;9(8):1327–38

A nuclear gene encoding mitochondrial proline dehydrogenase, an enzyme involved in proline metabolism, is upregulated by proline but downregulated by dehydration in Arabidopsis. Kiyosue T, et al. **Plant Cell** 1996 Aug;8(8):1323–35

S2F, a leaf-specific trans-acting factor, binds to a novel cis-acting element and differentially activates the RPL21 gene. Lagrange T, et al. **Plant Cell** 1997 Aug;9(8):1469–79

Mendel's stem length gene (Le) encodes a gibberellin 3 beta-hydroxylase. Lester DR, et al. **Plant Cell** 1997 Aug; 9(8):1435–43

A chlorate-resistant mutant defective in the regulation of nitrate reductase gene expression in Arabidopsis defines a new HY locus. Lin Y, et al. **Plant Cell** 1997 Jan;9(1):21–35

Expression of an N-terminal fragment of COP1 confers a dominant-negative effect on light-regulated seedling development in Arabidopsis. McNellis TW, et al. **Plant Cell** 1996 Sep;8(9):1491–503

Determination of Arabidopsis floral meristem identity by AGAMOUS. Mizukami Y, et al. **Plant Cell** 1997 Mar; 9(3):393–408

Apparent redundancy in myb gene function provides gearing for the control of flavonoid biosynthesis in antirrhinum flowers. Moyano E, et al. **Plant Cell** 1996 Sep;8(9):1519–32

The ABSCISIC ACID-INSENSITIVE3, FUSCA3, and LEAFY COTYLEDON1 loci act in concert to control multiple aspects of Arabidopsis seed development. Parcy F, et al. **Plant Cell** 1997 Aug;9(8):1265–77

Rapid induction by wounding and bacterial infection of an S gene family receptor-like kinase gene in Brassica oleracea. Pastuglia M, et al. **Plant Cell** 1997 Jan;9(1):49–60

Pathogen-induced systemic activation of a plant defensin gene in Arabidopsis follows a salicylic acid-independent pathway. Penninckx IA, et al. **Plant Cell** 1996 Dec; 8(12):2309–23

Reduced naphthylphthalamic acid binding in the tir3 mutant of Arabidopsis is associated with a reduction in polar auxin transport and diverse morphological defects. Ruegger M, et al. **Plant Cell** 1997 May;9(5):745–57

Altered mitochondrial gene expression in a maternal distorted leaf mutant of Arabidopsis induced by chloroplast mutator. Sakamoto W, et al. **Plant Cell** 1996 Aug;8(8):1377–90

Divergence of function and regulation of class B floral organ identity genes. Samach A, et al. **Plant Cell** 1997 Apr; 9(4):559–70

Nitrogen assimilation in alfalfa: isolation and characterization of an asparagine synthetase gene showing enhanced expression in root nodules and dark-adapted leaves. Shi L, et al. **Plant Cell** 1997 Aug;9(8):1339–56

Molecular dissection of the AGAMOUS control region shows that cis elements for spatial regulation are located intragenically. Sieburth LE, et al. **Plant Cell** 1997 Mar; 9(3):355–65

Evolution of the rice Xa21 disease resistance gene family. Song WY, et al. **Plant Cell** 1997 Aug;9(8):1279–87

ALBINO3, an Arabidopsis nuclear gene essential for chloroplast differentiation, encodes a chloroplast protein that shows homology to proteins present in bacterial membranes and yeast mitochondria. Sundberg E, et al. **Plant Cell** 1997 May;9(5):717–30

The sink-specific and stress-regulated Arabidopsis STP4 gene: enhanced expression of a gene encoding a monosaccharide transporter by wounding, elicitors, and pathogen challenge. Truernit E, et al. **Plant Cell** 1996 Dec; 8(12):2169–82

Cloning and characterization of CER2, an Arabidopsis gene that affects cuticular wax accumulation. Xia Y, et al. **Plant Cell** 1996 Aug;8(8):1291–304

Meiotic recombination break points resolve at high rates at the 5' end of a maize coding sequence. Xu X, et al. **Plant Cell** 1995 Dec;7(12):2151–61

Identification of new chalcone synthase genes for flower pigmentation in the Japanese and common morning glories. Fukada-Tanaka S, et al. **Plant Cell Physiol** 1997 Jun; 38(6):754–8

The RHG gene is involved in root and hypocotyl gravitropism in Arabidopsis thaliana. Fukaki H, et al. **Plant Cell Physiol** 1997 Jul;38(7):804–10

A serine/threonine protein kinase gene isolated by an in vivo binding procedure using the Arabidopsis floral homeotic gene product, AGAMOUS. Ito T, et al. **Plant Cell Physiol** 1997 Mar;38(3):248–58

Novel drought-inducible genes in the highly drought-tolerant cowpea: cloning of cDNAs and analysis of the expression of the corresponding genes. Iuchi S, et al. **Plant Cell Physiol** 1996 Dec;37(8):1073–82

Cloning of the pumpkin ascorbate oxidase gene and analysis of a cis-acting region involved in induction by auxin. Kisu Y, et al. **Plant Cell Physiol** 1997 May;38(5):631–7

MROS1, a male stamen-specific gene in the dioecious campion Silene latifolia is expressed in mature pollen. Matsunaga S, et al. **Plant Cell Physiol** 1997 Apr; 38(4):499–502

Gene expression during cold acclimation in strawberry. NDong C, et al. **Plant Cell Physiol** 1997 Jul;38(7):863–70

Isolation and characterization of cDNA clones with enhanced expression in tobacco plants expressing the rice homeobox gene, OSH1. Tamaoki M, et al. **Plant Cell Physiol** 1997 May;38(5):638–42

Mutations in the SGR4, SGR5 and SGR6 loci of Arabidopsis thaliana alter the shoot gravitropism. Yamauchi Y, et al. **Plant Cell Physiol** 1997 May;38(5):530–5

Differential expression of three genes for different beta-tubulin isotypes during the initial culture of Zinnia

mesophyll cells that divide and differentiate into tracheary elements. Yoshimura T, et al. **Plant Cell Physiol** 1996 Dec; 37(8):1167–76

Retrofitting YACs for direct DNA transfer into plant cells. Adam G, et al. **Plant J** 1997 Jun;11(6):1349–58

Gene identification in a complex chromosomal continuum by local genomic cross–referencing. Avramova Z, et al. **Plant J** 1996 Dec;10(6):1163–8

Transfer RNA–mediated suppression of amber stop codons in transgenic Arabidopsis thaliana. Betzner AS, et al. **Plant J** 1997 Mar;11(3):587–95

Analysis of fast neutron–generated mutants at the Arabidopsis thaliana HY4 locus. Bruggemann E, et al. **Plant J** 1996 Oct;10(4):755–60

Functional analysis of the Arabidopsis thaliana SBP–box gene SPL3: a novel gene involved in the floral transition. Cardon GH, et al. **Plant J** 1997 Aug;12(2):367–77

Variegation and silencing of the Heat Shock Cognate 80 gene are relieved by a bipartite downstream regulatory element. Chinn AM, et al. **Plant J** 1996 Mar;9(3):325–39

Identification of members of gene families in Arabidopsis thaliana by contig construction from partial cDNA sequences: 106 genes encoding 50 cytoplasmic ribosomal proteins. Cooke R, et al. **Plant J** 1997 May;11(5):1127–40

Characterization of a DNA–binding protein that interacts with 5' flanking regions of two fruit–ripening genes. Coupe SA, et al. **Plant J** 1997 Jun;11(6):1207–18

Alteration of tobacco floral organ identity by expression of combinations of Antirrhinum MADS–box genes. Davies B, et al. **Plant J** 1996 Oct;10(4):663–77

Molecular characterization of a stigma–specific gene encoding an arabinogalactan–protein (AGP) from Nicotiana alata. Du H, et al. **Plant J** 1996 Mar;9(3):313–23

Conditional transgenic expression of the ipt gene indicates a function for cytokinins in paracrine signaling in whole tobacco plants. Faiss M, et al. **Plant J** 1997 Aug; 12(2):401–15

Molecular cloning of a new receptor–like kinase gene encoded at the Lr10 disease resistance locus of wheat. Feuillet C, et al. **Plant J** 1997 Jan;11(1):45–52

Specific expression of the AGL1 MADS–box gene suggests regulatory functions in Arabidopsis gynoecium and ovule development. Flanagan CA, et al. **Plant J** 1996 Aug; 10(2):343–53

hrp gene–dependent induction of hin1: a plant gene activated rapidly by both harpins and the avrPto gene–mediated signal. Gopalan S, et al. **Plant J** 1996 Oct;10(4):591–600

The ELONGATED gene of Arabidopsis acts independently of light and gibberellins in the control of elongation growth. Halliday K, et al. **Plant J** 1996 Mar;9(3):305–12

The Arabidopsis thaliana ACT4/ACT12 actin gene subclass is strongly expressed throughout pollen development. Huang S, et al. **Plant J** 1996 Aug;10(2):189–202

Existence of three regulatory regions each containing a highly conserved motif in the promoter of plastid–encoded RNA polymerase gene (rpoB). Inada H, et al. **Plant J** 1997 Apr;11(4):883–90

Cell–cycle–regulated transcription of A– and B–type plant cyclin genes in synchronous cultures. Ito M, et al. **Plant J** 1997 May;11(5):983–92

Targeted misexpression of AGAMOUS in whorl 2 of Arabidopsis flowers. Jack T, et al. **Plant J** 1997 Apr; 11(4):825–39

AtDMC1, the Arabidopsis homologue of the yeast DMC1 gene: characterization, transposon–induced allelic variation and meiosis–associated expression. Klimyuk VI, et al. **Plant J** 1997 Jan;11(1):1–14

Potato guard cells respond to drying soil by a complex change in the expression of genes related to carbon metabolism and turgor regulation. Kopka J, et al. **Plant J** 1997 Apr;11(4):871–82

Tissue–specific expression of Arabidopsis AKT1 gene is consistent with a role in K+ nutrition. Lagarde D, et al. **Plant J** 1996 Feb;9(2):195–203

Light modulates the spatial patterns of 3–hydroxy–3–methylglutaryl coenzyme A reductase gene expression in Arabidopsis thaliana. Learned RM, et al. **Plant J** 1997 Mar;11(3):499–511

Isolation and characterization of abscisic acid–deficient Arabidopsis mutants at two new loci. Léon–Kloosterziel KM, et al. **Plant J** 1996 Oct;10(4):655–61

Mutations in the AXR3 gene of Arabidopsis result in altered auxin response including ectopic expression from the SAUR–AC1 promoter. Leyser HM, et al. **Plant J** 1996 Sep;10(3):403–13

Isolation and developmental expression of male reproductive organ–specific genes in a dioecious campion, Melandrium album (Silene latifolia). Matsunaga S, et al. **Plant J** 1996 Oct;10(4):679–89

Identification of two MADS box genes that are expressed in the apical meristem of the long–day plant Sinapis alba in transition to flowering. Menzel G, et al. **Plant J** 1996 Mar;9(3):399–408

Mutants of Arabidopsis thaliana with pleiotropic effects on the expression of the gene for beta–amylase and on the accumulation of anthocyanin that are inducible by sugars. Mita S, et al. **Plant J** 1997 Apr;11(4):841–51

Expression of a betaine aldehyde dehydrogenase gene in rice, a glycinebetaine nonaccumulator, and possible localization of its protein in peroxisomes. Nakamura T, et al. **Plant J** 1997 May;11(5):1115–20

Molecular cloning and characterization of the CER2 gene of Arabidopsis thaliana. Negruk V, et al. **Plant J** 1996 Feb; 9(2):137–45

Interactions between the ABI1 and the ectopically expressed ABI3 genes in controlling abscisic acid responses in Arabidopsis vegetative tissues. Parcy F, et al. **Plant J** 1997 Apr;11(4):693–702

Identification of agthi1, whose product is involved in biosynthesis of the thiamine precursor thiazole, in actinorhizal nodules of Alnus glutinosa. Ribeiro A, et al. **Plant J** 1996 Aug;10(2):361–8

Spatial expression dynamics of Men–9 delineate the third floral whorl in male and female flowers of dioecious Silene latifolia. Robertson SE, et al. **Plant J** 1997 Jul;12(1):155–68

Identification of a peptide methionine sulphoxide reductase gene in an oleosin promoter from Brassica napus. Sadanandom A, et al. **Plant J** 1996 Aug;10(2):235–42

The flow karyotype of Arabidopsis thaliana interphase chromosomes. Samoylova TI, et al. **Plant J** 1996 Nov; 10(5):949–54

The Arabidopsis cyclin–dependent kinase gene cdc2bAt is preferentially expressed during S and G2 phases of the cell cycle. Segers G, et al. **Plant J** 1996 Oct;10(4):601–12

Localization of expression of KNAT3, a class 2 knotted1–like gene. Serikawa KA, et al. **Plant J** 1997 Apr;11(4):853–61

Domain exchanges between KNAT3 and KNAT1 suggest specificity of the kn1–like homeodomains requires sequences outside of the third helix and N–terminal arm of the homeodomain. Serikawa KA, et al. **Plant J** 1997 Apr;11(4):863–9

Mutation of putative branchpoint consensus sequences in plant introns reduces splicing efficiency. Simpson CG, et al. **Plant J** 1996 Mar;9(3):369–80

The cloning of two Arabidopsis genes belonging to a phosphate transporter family. Smith FW, et al. **Plant J** 1997 Jan;11(1):83–92

Cloning of PCP1, a member of a family of pollen coat protein (PCP) genes from Brassica oleracea encoding novel cysteine–rich proteins involved in pollen–stigma interactions. Stanchev BS, et al. **Plant J** 1996 Aug; 10(2):303–13

An S–locus–related gene in Arabidopsis encodes a functional kinase and produces two classes of transcripts. Tobias CM, et al. **Plant J** 1996 Sep;10(3):523–31

The GURKE gene is required for normal organization of the apical region in the Arabidopsis embryo. Torres–Ruiz RA, et al. **Plant J** 1996 Dec;10(6):1005–16

Molecular cloning of a carotenoid–associated protein from Cucumis sativus corollas: homologous genes involved in carotenoid sequestration in chromoplasts. Vishnevetsky M, et al. **Plant J** 1996 Dec;10(6):1111–8

adg2–1 represents a missense mutation in the ADPG pyrophosphorylase large subunit gene of Arabidopsis thaliana. Wang SM, et al. **Plant J** 1997 May;11(5):1121–6

Pollen–specific expression of DEFH125, a MADS–box transcription factor in Antirrhinum with unusual features. Zachgo S, et al. **Plant J** 1997 May;11(5):1043–50

The Arabidopsis ELF3 gene regulates vegetative photomorphogenesis and the photoperiodic induction of flowering. Zagotta MT, et al. **Plant J** 1996 Oct; 10(4):691–702

Molecular cloning of cDNAs encoding (1—>4)–beta–xylan endohydrolases from the aleurone layer of germinated barley (Hordeum vulgare). Banik M, et al. **Plant Mol Biol** 1996 Sep;31(6):1163–72

Developmental regulation of two tomato lipoxygenase promoters in transgenic tobacco and tomato. Beaudoin N, et al. **Plant Mol Biol** 1997 Mar;33(5):835–46

The petunia homologue of tomato gast1: transcript accumulation coincides with gibberellin–induced corolla cell elongation. Ben–Nissan G, et al. **Plant Mol Biol** 1996 Dec;32(6):1067–74

Nucleotide sequence analysis of a novel globulin1 null allele from the Illinois high protein strain of maize. Bhattramakki D, et al. **Plant Mol Biol** 1996 Dec;32(6):1215–9

Characterization of SaMADS D from Sinapis alba suggests a dual function of the gene: in inflorescence development and floral organogenesis. Bonhomme F, et al. **Plant Mol Biol** 1997 Jul;34(4):573–82

Comparative analysis of the chromosomal and genomic organization of Ty1–copia–like retrotransposons in pteridophytes, gymnosperms and angiosperms. Brandes A, et al. **Plant Mol Biol** 1997 Jan;33(1):11–21

Leaf senescence in Brassica napus: cloning of senescence related genes by subtractive hybridisation. Buchanan–Wollaston V, et al. **Plant Mol Biol** 1997 Mar; 33(5):821–34

Sequence composition and organization in the Sh2/A1–homologous region of rice [letter] Chen M, et al. **Plant Mol Biol** 1996 Dec;32(6):999–1001

Cloning and characterization of the calreticulin gene from Ricinus communis L. Coughlan SJ, et al. **Plant Mol Biol** 1997 Aug;34(6):897–911

Aspartic proteinase genes in the Brassicaceae Arabidopsis thaliana and Brassica napus. D'Hondt K, et al. **Plant Mol Biol** 1997 Jan;33(1):187–92

Characterization of pectinases and pectin methylesterase cDNAs in pods of green beans (Phaseolus vulgaris L.). Ebbelaar ME, et al. **Plant Mol Biol** 1996 Sep;31(6):1141–51

Maize glutathione–dependent formaldehyde dehydrogenase cDNA: a novel plant gene of detoxification. Fliegmann J, et al. **Plant Mol Biol** 1997 Aug;34(6):843–54

Analysis of type 1 metallothionein cDNAs in Vicia faba. Foley RC, et al. **Plant Mol Biol** 1997 Mar;33(4):583–91

cDNA structure and expression patterns of a low–temperature–specific wheat gene tacr7. Gana JA, et al. **Plant Mol Biol** 1997 Jul;34(4):643–50

cDNA cloning and characterization of a 3'/5'–O–methyltransferase for partially methylated flavonols from Chrysosplenium americanum. Gauthier A, et al. **Plant Mol Biol** 1996 Dec;32(6):1163–9

Isolation and analysis of the soybean SGA2 gene (cDNA), encoding a new member of the plant G–protein family of signal transducers. Gotor C, et al. **Plant Mol Biol** 1996 Dec;32(6):1227–34

Characterization of Zea mays endosperm C–24 sterol methyltransferase: one of two types of sterol methyltransferase in higher plants. Grebenok RJ, et al. **Plant Mol Biol** 1997 Aug;34(6):891–6

Structure of the parsley caffeoyl–CoA O–methyltransferase gene, harbouring a novel elicitor responsive cis–acting element. Grimmig B, et al. **Plant Mol Biol** 1997 Jan; 33(2):323–41

A gene encoding a major Kunitz proteinase inhibitor of storage organs of winged bean is also expressed in the phloem of stems. Habu Y, et al. **Plant Mol Biol** 1996 Dec; 32(6):1209–13

The wheat protein kinase gene, TaPK3, of the PKABA1 subfamily is differentially regulated in greening wheat seedlings. Holappa LD, et al. **Plant Mol Biol** 1997 Mar; 33(5):935–41

Promoter sequences from two different Brassica napus tapetal oleosin–like genes direct tapetal expression of beta–glucuronidase in transgenic Brassica plants. Hong HP, et al. **Plant Mol Biol** 1997 Jun;34(3):549–55

Identification of an immediate–early salicylic acid–inducible tobacco gene and characterization of induction by other compounds. Horvath DM, et al. **Plant Mol Biol** 1996 Aug; 31(5):1061–72

RNA processing alters open reading frame stoichiometry from the large ATP synthase gene cluster of spinach chloroplasts. Hotchkiss T, et al. **Plant Mol Biol** 1997 Mar; 33(4):635–40

Structural characteristics of two wheat histone H2A genes encoding distinct types of variants and functional differences in their promoter activity. Huh GH, et al. **Plant Mol Biol** 1997 Mar;33(5):791–802

Characterization of the gene for delta1–pyrroline–5–carboxylate synthetase and correlation between the expression of the gene and salt tolerance in Oryza sativa L. Igarashi Y, et al. **Plant Mol Biol** 1997 Mar; 33(5):857–65

Transcription of genes for conglutin gamma and a leginsulin–like protein in narrow–leafed lupin. Ilgoutz SC, et al. **Plant Mol Biol** 1997 Jul;34(4):613–27

Transposon tagging in rice. Izawa T, et al. **Plant Mol Biol** 1997 Sep;35(1–2):219–29 (42 ref.)

Cloning and expression analysis of a gene that shows developmental regulation upon tuberization in potato. Jackson S, et al. **Plant Mol Biol** 1997 Jan;33(1):169–74

A chloroplast derived trnH gene is expressed in the mitochondrial genome of gramineous plants. Kanno A, et al. **Plant Mol Biol** 1997 May;34(2):353–6

Characterization of three anther–specific genes isolated from Chinese cabbage. Kim HU, et al. **Plant Mol Biol** 1997 Jan; 33(1):193–8

Cloning and analysis of the gene for cystathionine gamma–synthase from Arabidopsis thaliana. Kim J, et al. **Plant Mol Biol** 1996 Dec;32(6):1117–24

Structural organization, expression and promoter activity of a cold–stress–inducible gene of potato (Solanum tuberosum L.) Kirch HH, et al. **Plant Mol Biol** 1997 Mar;33(5):897–909

Cloning and characterisation of a gene encoding an antiviral protein from Clerodendrum aculeatum L. Kumar D, et al. **Plant Mol Biol** 1997 Mar;33(4):745–51

Pollination–enhanced expression of a receptor–like protein kinase related gene in tobacco styles. Li HY, et al. **Plant Mol Biol** 1997 Mar;33(4):653–65

Differential expression of TPS11, a phosphate starvation–induced gene in tomato. Liu C, et al. **Plant Mol Biol** 1997 Mar;33(5):867–74

Differential and wound–inducible expression of 1–aminocyclopropane–1–carboxylate oxidase genes in sunflower seedlings. Liu JH, et al. **Plant Mol Biol** 1997 Aug;34(6):923–33

Characterization of Vitis vinifera L. glutamine synthetase and molecular cloning of cDNAs for the cytosolic enzyme. Loulakakis KA, et al. **Plant Mol Biol** 1996 Aug; 31(5):983–92

Multiple transcription start sites of the carrot dihydrofolate reductase–thymidylate synthase gene, and sub–cellular localization of the bifunctional protein. Luo M, et al. **Plant Mol Biol** 1997 Mar;33(4):709–22

Cloning and expression of a plant homologue of the small subunit of the Golgi–associated clathrin assembly protein AP19 from Camptotheca acuminata. Maldonado–Mendoza IE, et al. **Plant Mol Biol** 1996 Dec;32(6):1149–53

Isolation and characterisation of a diverse family of Arabidopsis two and three–fingered C2H2 zinc finger protein genes and cDNAs. Meissner R, et al. **Plant Mol Biol** 1997 Mar;33(4):615–24

Differential expression of pathogen–responsive genes encoding two types of glycine–rich proteins in barley. Molina A, et al. **Plant Mol Biol** 1997 Mar;33(5):803–10

Foldback transposable elements in plants. Rebatchouk D, et

al. **Plant Mol Biol** 1997 Jul;34(5):831–5
Mrs, a new subfamily of Tourist transposable elements. Río A, et al. **Plant Mol Biol** 1996 Dec;32(6):1221–6
Isolation and promoter characterization of barley gene Itr1 encoding trypsin inhibitor BTI–CMe: differential activity in wild–type and mutant lys3a endosperm. Royo J, et al. **Plant Mol Biol** 1996 Aug;31(5):1051–9
Characterization and expression of a rice RAD23 gene. Schultz TF, et al. **Plant Mol Biol** 1997 Jun;34(3):557–62
Cloning and characterization of elongation specific endo–1,4–beta–glucanase (cel1) from Arabidopsis thaliana. Shani Z, et al. **Plant Mol Biol** 1997 Aug;34(6):837–42
Isolation, characterization and molecular cloning of the mannose–binding lectins from leaves and roots of garlic (Allium sativum L.). Smeets K, et al. **Plant Mol Biol** 1997 Jan;33(2):223–34
Characterization of the plant homologue of prohibitin, a gene associated with antiproliferative activity in mammalian cells. Snedden WA, et al. **Plant Mol Biol** 1997 Mar; 33(4):753–6
A peroxiredoxin antioxidant is encoded by a dormancy–related gene, Per1, expressed during late development in the aleurone and embryo of barley grains. Stacy RA, et al. **Plant Mol Biol** 1996 Sep;31(6):1205–16
Isolation of two differentially expressed wheat ACC synthase cDNAs and the characterization of one of their genes with root–predominant expression. Subramaniam K, et al. **Plant Mol Biol** 1996 Aug;31(5):1009–20
LhcaR1 of the red alga Porphyridium cruentum encodes a polypeptide of the LHCI complex with seven potential chlorophyll a–binding residues that are conserved in most LHCs. Tan S, et al. **Plant Mol Biol** 1997 Jan;33(1):157–67
Noncoding RNA for CR20, a cytokinin–repressed gene of cucumber. Teramoto H, et al. **Plant Mol Biol** 1996 Dec; 32(5):797–808
Bnm1, a Brassica pollen–specific gene. Treacy BK, et al. **Plant Mol Biol** 1997 Jul;34(4):603–11
Knotted1–like homeobox genes are expressed during apple tree (Malus domestica [L.] Borkh) growth and development. Watillon B, et al. **Plant Mol Biol** 1997 Mar; 33(4):757–63
Cloning and characterization of PO22, a pollen–expressed gene in alfalfa. Wu Y, et al. **Plant Mol Biol** 1996 Dec; 32(6):1205–7
PO149, a new member of pollen pectate lyase–like gene family from alfalfa. Wu Y, et al. **Plant Mol Biol** 1996 Dec; 32(6):1037–42
DNA–binding properties, genomic organization and expression pattern of TGA6, a new member of the TGA family of bZIP transcription factors in Arabidopsis thaliana. Xiang C, et al. **Plant Mol Biol** 1997 Jun;34(3):403–15
Genetic and molecular dissection of quantitative traits in rice. Yano M, et al. **Plant Mol Biol** 1997 Sep;35(1–2):145–53 (61 ref.)
A novel glycine–rich/hydrophobic 16 kDa polypeptide gene from tobacco: similarity to proline–rich protein genes and its wound–inducible and developmentally regulated expression. Yasuda E, et al. **Plant Mol Biol** 1997 Mar; 33(4):667–78
Linkage map of phenotype and RFLP markers in rice. Yoshimura A, et al. **Plant Mol Biol** 1997 Sep;35(1–2):49–60 (36 ref.)
Expression characteristics of OS–ACS1 and OS–ACS2, two members of the 1–aminocyclopropane–1–carboxylate synthase gene family in rice (Oryza sativa L. cv. Habiganj Aman II) during partial submergence. Zarembinski TI, et al. **Plant Mol Biol** 1997 Jan;33(1):71–7
Cloning and expression of an Arabidopsis gene encoding a putative peroxisomal ascorbate peroxidase. Zhang H, et al. **Plant Mol Biol** 1997 Aug;34(6):967–71
The electronic plant gene register. **Plant Physiol** 1997 Feb; 113(2):663–5
The electronic plant gene register. **Plant Physiol** 1997 Jan; 113(1):305–6
The electronic plant gene register. **Plant Physiol** 1996 Nov; 112(3):1397–400
The electronic plant gene register. **Plant Physiol** 1996 Dec; 112(4):1735–6
The electronic plant gene register. **Plant Physiol** 1997 Mar; 113(3):1003–5
The Electronic Plant Gene Register. **Plant Physiol** 1997 May; 114(1):395–6
The electronic Plant Gene Register. **Plant Physiol** 1997 Jun; 114(2):747–9
The electronic Plant Gene Register. **Plant Physiol** 1996 Oct; 112(2):861–4
The electronic plant gene register. **Plant Physiol** 1996 Mar; 110(3):1047–8
The electronic plant gene register. **Plant Physiol** 1997 Jul; 114(3):1135–6
The electronic Plant Gene Register. **Plant Physiol** 1997 Apr; 113(4):1463–5
Ancestral multipartite units in light–responsive plant promoters have structural features correlating with specific phototransduction pathways. Argüello–Astorga GR, et al. **Plant Physiol** 1996 Nov;112(3):1151–66
Molecular cloning of the cowpea leghemoglobin II gene and expression of its cDNA in Escherichia coli. Purification and characterization of the recombinant protein. Arredondo–Peter R, et al. **Plant Physiol** 1997 Jun; 114(2):493–500
Novel molecular markers for late phases of the growth cycle of Arabidopsis thaliana cell–suspension cultures are expressed during organ senescence. Callard D, et al. **Plant Physiol** 1996 Oct;112(2):705–15
Tissue–specific expression and promoter analysis of the tobacco ltp1 gene. Canevascini S, et al. **Plant Physiol** 1996 Oct;112(2):513–24
Isolation and characterization of glutamine synthetase genes in Chlamydomonas reinhardtii. Chen Q, et al. **Plant Physiol** 1996 Nov;112(3):987–96
The sorghum photoperiod sensitivity gene, Ma3, encodes a phytochrome B. Childs KL, et al. **Plant Physiol** 1997 Feb; 113(2):611–9
Molecular cloning of a metallothionein–like gene from Nicotiana glutinosa L. and its induction by wounding and tobacco mosaic virus infection. Choi D, et al. **Plant Physiol** 1996 Sep;112(1):353–9
The promoter for tomato 3–hydroxy–3–methylglutaryl coenzyme A reductase gene 2 has unusual regulatory elements that direct high–level expression. Daraselia ND, et al. **Plant Physiol** 1996 Oct;112(2):727–33
Reduced Na+ uptake in the NaCl–hypersensitive sos1 mutant of Arabidopsis thaliana. Ding L, et al. **Plant Physiol** 1997 Mar;113(3):795–9
Differential expression of the multigene family encoding the soybean mitochondrial alternative oxidase. Finnegan PM, et al. **Plant Physiol** 1997 Jun;114(2):455–66
SGR1, SGR2, SGR3: novel genetic loci involved in shoot gravitropism in Arabidopsis thaliana. Fukaki H, et al. **Plant Physiol** 1996 Mar;110(3):945–55
Structure of the CAC1 gene and in situ characterization of its expression. The Arabidopsis thaliana gene coding for the biotin–containing subunit of the plastidic acetyl–coenzyme A carboxylase. Ke J, et al. **Plant Physiol** 1997 Feb;113(2):357–65
A complement of ten essential and pleiotropic arabidopsis COP/DET/FUS genes is necessary for repression of photomorphogenesis in darkness. Kwok SF, et al. **Plant Physiol** 1996 Mar;110(3):731–42
Isolation and characterization of a diverse set of genes from carrot somatic embryos. Lin X, et al. **Plant Physiol** 1996 Nov;112(3):1365–74
Mutations of Arabidopsis in potential transduction and response components of the phototropic signaling pathway. Liscum E, et al. **Plant Physiol** 1996 Sep;112(1):291–6
Fruit–specific expression of a defensin–type gene family in bell pepper. Upregulation during ripening and upon wounding. Meyer B, et al. **Plant Physiol** 1996 Oct; 112(2):615–22
Negative regulation in the expression of a sugar–inducible gene in Arabidopsis thaliana. A recessive mutation causing enhanced expression of a gene for beta–amylase. Mita S, et al. **Plant Physiol** 1997 Jun;114(2):575–82
The construction of Arabidopsis expressed sequence tag assemblies. A new resource to facilitate gene identification. Rounsley SD, et al. **Plant Physiol** 1996 Nov;112(3):1177–83
De novo purine synthesis in Arabidopsis thaliana. II. The PUR7 gene encoding 5'–phosphoribosyl–4–(N–succinocarboxamide)–5–aminoimidazole synthetase is expressed in rapidly dividing tissues. Senecoff JF, et al. **Plant Physiol** 1996 Nov; 112(3):905–17
Tissue–specific activity of two manganese superoxide dismutase promoters in transgenic tobacco. Van Camp W, et al. **Plant Physiol** 1996 Oct;112(2):525–35
Characterization of a maize beta–amylase cDNA clone and its expression during seed germination. Wang SM, et al. **Plant Physiol** 1997 Feb;113(2):403–9
Characterization of the cDNA and gene coding for the biotin synthase of Arabidopsis thaliana. Weaver LM, et al. **Plant Physiol** 1996 Mar;110(3):1021–8
The role of the COP/DET/FUS genes in light control of arabidopsis seedling development. Wei N, et al. **Plant Physiol** 1996 Nov;112(3):871–8 (46 ref.)
The Arabidopsis 14–3–3 multigene family. Wu K, et al. **Plant Physiol** 1997 Aug;114(4):1421–31
Oat–maize chromosome addition lines: a new system for mapping the maize genome. Ananiev EV, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3524–9
The distribution of genes in the genomes of Gramineae. Barakat A, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):6857–61
The MUR1 gene of Arabidopsis thaliana encodes an isoform of GDP–D–mannose–4,6–dehydratase, catalyzing the first step in the de novo synthesis of GDP–L–fucose. Bonin CP, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4; 94(5):2085–90
Evolution of plastid gene rps2 in a lineage of hemiparasitic and holoparasitic plants: many losses of photosynthesis and complex patterns of rate variation. dePamphilis CW, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7367–72
Rapid evolution of sex–related genes in Chlamydomonas. Ferris PJ, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8634–9
Crystallization and identification of an assembly defect of recombinant antenna complexes produced in transgenic tobacco plants. Flachmann R, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14966–71
"Agrolistic" transformation of plant cells: integration of T–strands generated in planta. Hansen G, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14978–83
Duplication and functional divergence in the chalcone synthase gene family of Asteraceae: evolution with substrate change and catalytic simplification. Helariutta Y, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9033–8
SPINDLY, a tetratricopeptide repeat protein involved in gibberellin signal transduction in Arabidopsis. Jacobsen SE, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9292–6
Resistance gene analogs are conserved and clustered in soybean. Kanazin V, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11746–50
Identification of transferred DNA insertions within Arabidopsis genes involved in signal transduction and ion transport. Krysan PJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8145–50
Molecular recognition of pathogen attack occurs inside of plant cells in plant disease resistance specified by the Arabidopsis genes RPS2 and RPM1. Leister RT, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15497–502
Evidence for a common sex determination mechanism for pistil abortion in maize and in its wild relative Tripsacum. Li D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):4217–22
ECA1 complements yeast mutants defective in Ca2+ pumps and encodes an endoplasmic reticulum–type Ca2+–ATPase in Arabidopsis thaliana. Liang F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8579–84
Exon shuffling and the origin of the mitochondrial targeting function in plant cytochrome c1 precursor. Long M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7727–31
AtMRP1 gene of Arabidopsis encodes a glutathione S–conjugate pump: isolation and functional definition of a plant ATP–binding cassette transporter gene. Lu YP, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8243–8
Mendel's dwarfing gene: cDNAs from the Le alleles and function of the expressed proteins. Martin DN, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8907–11
Evolution of alcohol dehydrogenase genes in the palm and grass families. Morton BR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11735–9
Floral homeotic genes were recruited from homologous MADS–box genes preexisting in the common ancestor of ferns and seed plants. Münster T, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2415–20
Flowers into shoots: photo and hormonal control of a meristem identity switch in Arabidopsis. Okamuro JK, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13831–6
Pinus banksiana has at least seven expressed alcohol dehydrogenase genes in two linked groups. Perry DJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13020–3
Multiple A–type cyclins express sequentially during the cell cycle in Nicotiana tabacum BY2 cells. Reichheld JP, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13819–24
A rice homeobox gene, OSH1, is expressed before organ differentiation in a specific region during early embryogenesis. Sato Y, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8117–22
Genetic identification of a gene involved in constitutive, high–affinity nitrate transport in higher plants. Wang R, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):9297–301
Isolation of a superfamily of candidate disease–resistance genes in soybean based on a conserved nucleotide–binding site. Yu YG, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11751–6
Suspensor–derived polyembryony caused by altered expression of valyl–tRNA synthetase in the twn2 mutant of Arabidopsis. Zhang JZ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7349–55
The gene for albicidin detoxification from Pantoea dispersa encodes an esterase and attenuates pathogenicity of Xanthomonas albilineans to sugarcane. Zhang L, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9984–9
Structure and expression of a rice hsp70 gene. Wang Q, et al. **Sci China C Life Sci** 1996 Jun;39(3):291–9
Inflorescence commitment and architecture in Arabidopsis. Bradley D, et al. **Science** 1997 Jan 3;275(5296):80–3
Positional cloning of a gene for nematode resistance in sugar beet. Cai D, et al. **Science** 1997 Feb 7;275(5301):832–4
Analysis of a chemical plant defense mechanism in grasses. Frey M, et al. **Science** 1997 Aug 1;277(5326):696–9
Mitochondrial and chloroplast phage–type RNA polymerases in Arabidopsis. Hedtke B, et al. **Science** 1997 Aug 8; 277(5327):809–11
An aquaporin–like gene required for the Brassica self–incompatibility response. Ikeda S, et al. **Science** 1997 Jun 6;276(5318):1564–6
Hypermethylated SUPERMAN epigenetic alleles in arabidopsis. Jacobsen SE, et al. **Science** 1997 Aug 22; 277(5329):1100–3
Diversification of C–function activity in maize flower development. Mena M, et al. **Science** 1996 Nov 29; 274(5292):1537–40
First nematode–resistance gene found [news] Moffat AS. **Science** 1997 Feb 7;275(5301):757
Seed banks and molecular maps: unlocking genetic potential from the wild. Tanksley SD, et al. **Science** 1997 Aug 22; 277(5329):1063–6 (22 ref.)
Self–sterility in Arabidopsis due to defective pollen tube guidance. Wilhelmi LK, et al. **Science** 1996 Nov 29; 274(5292):1535–7
The Hybaid Lecture. Microcollinearity and segmental duplication in the evolution of grass nuclear genomes. Bennetzen JL, et al. **Symp Soc Exp Biol** 1996;50:1–3
Sequencing and mapping the Arabidopsis genome: a weed

model for real crops. Delseny M, et al. **Symp Soc Exp Biol** 1996;50:5–9

QTL for insect resistance and drought tolerance in tropical maize: prospects for marker assisted selection. Hoisington D, et al. **Symp Soc Exp Biol** 1996;50:39–44

Comparative genetic and QTL mapping in sorghum and maize. Lee M. **Symp Soc Exp Biol** 1996;50:31–8

Molecular characterization of heterochromatic regions around the Tm-2 locus in chromosome 9 of tomato. Motoyoshi F, et al. **Symp Soc Exp Biol** 1996;50:65–70

Rice cDNAs as a model for expressed genes of plants. Sasaki T. **Symp Soc Exp Biol** 1996;50:11–5

[High resolution mapping of genes by imaging methods using the interna] Fukui K, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(6):881–7 (22 ref.) **(Jpn)**

[Transposon tagging using transgenic plants] Izawa T, et al. **Tanpakushitsu Kakusan Koso** 1996 Jul;41(9):1415–21; discussion 1397–8 (15 ref.) **(Jpn)**

[Genes of plant Ser/Thr protein phosphatases: detection of sequences related to PPT/rdgC] Andreeva AV, et al. **Bioorg Khim** 1997 Jun;23(6):486–91 (Eng. Abstr.) **(Rus)**

["SPELT1"—a new family of tandem repeats in grasses] Salina EA, et al. **Genetika** 1997 Apr;33(4):437–42 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Hormones act downstream of TTG and GL2 to promote root hair outgrowth during epidermis development in the Arabidopsis root. Masucci JD, et al. **Plant Cell** 1996 Sep; 8(9):1505–17

Abscisic acid and jasmonic acid activate wound-inducible genes in potato through separate, organ-specific signal transduction pathways. Dammann C, et al. **Plant J** 1997 Apr;11(4):773–82

The Arabidopsis homeobox gene ATHB-7 is induced by water deficit and by abscisic acid. Söderman E, et al. **Plant J** 1996 Aug;10(2):375–81

GENETICS

A procedure for cloning genes from genomic DNA using weakly hybridizing heterologous probes and a polymerase chain reaction-based screening: cloning of the chickpea urate oxidase gene. Caballero JL, et al. **Anal Biochem** 1997 Jan 1;244(1):167–9

The genetics of flower development: from floral induction to ovule morphogenesis. Weigel D. **Annu Rev Genet** 1995; 29:19–39 (93 ref.)

Cloning of a cDNA that encodes farnesyl diphosphate synthase and the blue-light-induced expression of the corresponding gene in the leaves of rice plants. Sanmiya K, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):240–6

The rps4-gene is encoded upstream of the nad2-gene in Arabidopsis mitochondria. Lippok B, et al. **Biol Chem Hoppe Seyler** 1996 Apr;377(4):251–7

The Arabidopsis NPR1 gene that controls systemic acquired resistance encodes a novel protein containing ankyrin repeats. Cao H, et al. **Cell** 1997 Jan 10;88(1):57–63

A novel zinc finger protein is encoded by the Arabidopsis LSD1 gene and functions as a negative regulator of plant cell death. Dietrich RA, et al. **Cell** 1997 Mar 7;88(5):685–94

The on and off of floral regulatory genes. Ma H. **Cell** 1997 Jun 13;89(6):821–4 (19 ref.)

Molecular cytogenetic characterisation of the terminal heterochromatic segment of the B-chromosome of rye (Secale cereale). Houben A, et al. **Chromosoma** 1996 Aug; 105(2):97–103

Seeing selection in S allele sequences. Charlesworth D, et al. **Curr Biol** 1997 Jan 1;7(1):R34–7

Cell-cell interactions: taking cues from the neighbors. Weigel D, et al. **Curr Biol** 1996 Jan 1;6(1):10–2 (10 ref.)

Characterization of a tRNA(Lys)(CUU) gene located in the opposite orientation upstream of a ZmFer2 ferritin gene in the maize nuclear genome. Fobis-Loisy I, et al. **Gene** 1996 Dec 5;182(1–2):195–201

Glossy15, an APETALA2-like gene from maize that regulates leaf epidermal cell identity. Moose SP, et al. **Genes Dev** 1996 Dec 1;10(23):3018–27

A codominant DNA marker closely linked to the rice nuclear restorer gene, RF-1, identified with inter-SSR fingerprinting. Akagi H, et al. **Genome** 1996 Dec; 39(6):1205–9

The 5S rRNA gene units in ancestral two-rowed barley (Hordeum spontaneum C. Koch) and bulbous barley (H. bulbosum L.): sequence analysis and phylogenetic relationships with the 5S rDNA units of cultivated barley (H. vulgare L.). Baum BR, et al. **Genome** 1996 Feb; 39(1):140–9

A DNA marker for the Bt-10 common bunt resistance gene in wheat. Demeke T, et al. **Genome** 1996 Feb;39(1):51–5

Identification of RAPD markers for common root rot and spot blotch (Cochliobolus sativus) resistance in barley. Kutcher HR, et al. **Genome** 1996 Feb;39(1):206–15

Development of a sequence characterized amplified region (SCAR) based indirect selection method for a dominant blast-resistance gene in rice. Naqvi NI, et al. **Genome** 1996 Feb;39(1):26–30

Development of a PCR-based allele-specific assay from an RFLP probe linked to resistance to cereal cyst nematode in wheat. Williams KJ, et al. **Genome** 1996 Aug; 39(4):798–801

Genome DNA sequencing around the EF-1 alpha multigene locus of Arabidopsis thaliana indicates a high gene density and a shuffling of noncoding regions. Tremousaygue D, et al. **Genome Res** 1997 Mar;7(3):198–209

Sequential functioning of Sym-13 and Sym-31, two genes affecting symbiosome development in root nodules of pea (Pisum sativum L.). Borisov AY, et al. **Mol Gen Genet** 1997 May 20;254(5):592–8

Analysis of Mutator-induced mutations in the iojap gene of maize. Byrne M, et al. **Mol Gen Genet** 1996 Aug 27; 252(1–2):216–20

Temperature-regulated mRNA accumulation and stabilization for fatty acid desaturase genes in the cyanobacterium Synechococcus sp. strain PCC 7002. Sakamoto T, et al. **Mol Microbiol** 1997 Mar;23(6):1281–92

The Arabidopsis Athb-10 (GLABRA2) is an HD-Zip protein required for regulation of root hair development. Di Cristina M, et al. **Plant J** 1996 Sep;10(3):393–402

A self-fertile mutant of Phalaris produces an S protein with reduced thioredoxin activity. Li X, et al. **Plant J** 1996 Sep; 10(3):505–13

Plant nuclear tRNA(Met) genes are ubiquitously interrupted by introns. Akama K, et al. **Plant Mol Biol** 1996 Nov; 32(3):427–34

Molecular cloning and characterization of a gene that encodes a MYC-related protein in Arabidopsis. Urao T, et al. **Plant Mol Biol** 1996 Nov;32(3):571–6

Nucleotide sequences of nuclear tRNA(Cys) genes from Nicotiana and Arabidopsis and expression in HeLa cell extract. Urban C, et al. **Plant Mol Biol** 1996 Nov; 32(3):549–52

Carbohydrate control of gene expression in higher plants. Graham IA. **Res Microbiol** 1996 Jul-Sep;147(6–7):572–80 (85 ref.)

[Identification of transcription start site of waxy gene in O. sativa subsp. indica 232] Gao J, et al. **I Chuan Hsueh Pao** 1995;22(6):431–6 (Eng. Abstr.) **(Chi)**

[Cloning, sequencing and characterizing repetitive DNA of Glycine max] Hui D, et al. **I Chuan Hsueh Pao** 1995; 22(6):455–62 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Signal transduction in plant immunity. Shirasu K, et al. **Curr Opin Immunol** 1996 Feb;8(1):3–7 (55 ref.)

PHYSIOLOGY

Repeat-induced gene silencing: common mechanisms in plants and fungi. Meyer P. **Biol Chem Hoppe Seyler** 1996 Feb;377(2):87–95 (91 ref.)

A novel suppressor of cell death in plants encoded by the Lls1 gene of maize. Gray J, et al. **Cell** 1997 Apr 4; 89(1):25–31

Genetic control of shoot and flower meristem behavior. Liljegren SJ, et al. **Curr Opin Cell Biol** 1996 Dec;8(6):865–9 (35 ref.)

Identification of an Arabidopsis locus required for resistance to turnip crinkle virus. Dempsey DA, et al. **Plant J** 1997 Feb;11(2):301–11

Light-responsive elements of the tobacco PSI-D gene are located both upstream and within the transcribed region. Yamamoto YY, et al. **Plant J** 1997 Aug;12(2):255–65

RADIATION EFFECTS

A negative regulatory factor for the dark repression of Arabidopsis thaliana cab1 gene. Choi DK, et al. **Photochem Photobiol** 1996 Nov;64(5):870–5

GENES, POL

Independent evolution of the env and pol genes of HIV-1 during zidovudine therapy. Brown AJ, et al. **AIDS** 1996 Sep;10(10):1067–73

Differential expression of human endogenous retroviral sequences similar to mouse mammary tumor virus in normal peripheral blood mononuclear cells. Andersson ML, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):833–40

Production of doughnut-shaped, protease-defective particles from a human T cell clone carrying a provirus with specific mutations in the env, pol, vpr, and nef genes. Bahmani MK, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10; 13(6):523–6

Selected nucleotide sequence of the pol gene of the monocytotropic strain HIV type 1 BaL. Cenci A, et al. **AIDS Res Hum Retroviruses** 1997 May 1;13(7):629–32

Characterization of human foamy virus proteins expressed by recombinant vaccinia viruses. Fischer N, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10;13(6):517–21

Molecular characterization of field isolates of lentiviruses of small ruminants. Leroux C, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):427–9 (27 ref.)

Point mutant frequencies in the pol gene of human immunodeficiency virus type 1 are two- to threefold lower than those of env. Quiñones-Mateu ME, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10;12(12):1117–28

Phylogenetic characterization of simian T lymphotropic virus type I (STLV-I) from the Ethiopian sacred baboon (Papio hamadryas). Voevodin A, et al. **AIDS Res Hum Retroviruses** 1996 Feb 10;12(3):255–8

Comparison of QIAamp HCV kit spin columns, silica beads, and phenol-chloroform for recovering human immunodeficiency virus type 1 RNA from plasma. Shafer RW, et al. **J Clin Microbiol** 1997 Feb;35(2):520–2

Sequence and transcriptional analysis of the guinea-pig cytomegalovirus DNA polymerase gene. Schleiss MR. **J Gen Virol** 1995 Jul;76 (Pt 7):1827–33

Development of pathological lesions in the central nervous system of transgenic mice expressing the env gene of ts1 Moloney murine leukemia virus in the absence of the viral gag and pol genes and viral replication. Yu YE, et al. **J Neurovirol** 1997 Aug;3(4):274–82

Characterization of the spliced pol transcript of feline foamy virus: the splice acceptor site of the pol transcript is located in gag of foamy viruses. Bodem J, et al. **J Virol** 1996 Dec; 70(12):9024–7

pol gene diversity of five human immunodeficiency virus type 1 subtypes: evidence for naturally occurring mutations that contribute to drug resistance, limited recombination patterns, and common ancestry for subtypes B and D. Cornelissen M, et al. **J Virol** 1997 Sep;71(9):6348–58

Placement of tRNA primer on the primer-binding site requires pol gene expression in avian but not murine retroviruses. Fu W, et al. **J Virol** 1997 Sep;71(9):6940–6

cis-Acting inhibitory elements within the pol-env region of human T-cell leukemia virus type 1 possibly involved in viral persistence. Saiga A, et al. **J Virol** 1997 Jun; 71(6):4485–94

Defective herpes simplex virus type 1 vectors harboring gag, pol, and env genes can be used to rescue defective retrovirus vectors. Savard N, et al. **J Virol** 1997 May; 71(5):4111–7

Substitutions T-->C 4783 and T-->C 6569 in the pol and env genes of HTLV-I are characteristic for the isolates originating in the Middle East. Voevodin A. **Leukemia** 1997 Apr;11 Suppl 3:52–3

Production of infectious recombinant Moloney murine leukemia virus particles in BHK cells using Semliki Forest virus-derived RNA expression vectors. Li KJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11658–63

Mutagenesis of a hepatitis B virus reverse transcriptase yields temperature-sensitive virus. Seeger C, et al. **Virology** 1996 Aug 15;222(2):430–9

GENETICS

Zidovudine resistance mutations and human immunodeficiency virus type 1 DNA burden: longitudinal evaluation of six patients under treatment. Zazzi M, et al. **Infection** 1996 Nov-Dec;24(6):419–25

HIV-1 pol sequences from India fit distinct subtype pattern. Soto-Ramirez LE, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Dec 1;13(4):299–307

Molecular characterization of a variant of proviral bovine leukaemia virus (BLV). Molteni E, et al. **Zentralbl Veterinarmed [B]** 1996 Jun;43(4):201–11

PHYSIOLOGY

HTLV Tax gene expression in patients with lymphoproliferative disorders. Cardoso EA, et al. **J Clin Pathol** 1996 Nov;49(11):938–41

GENES, PROCESSED see **PSEUDOGENES**

GENES, PROTOZOAN

Sequence data for two large-subunit rRNA genes from an Asian strain of Alexandrium catenella. Yeung PK, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4199–201

In situ location of the Ehredox and 16S rDNA genes in Entamoeba histolytica trophozoites. Delgadillo DM, et al. **Arch Med Res** 1997;28 Spec No:11–3

Two genes for PPi-dependent phosphofructokinase in Entamoeba histolytica. Deng Z, et al. **Arch Med Res** 1997; 28 Spec No:83–5

Molecular cloning of an Entamoeba histolytica gene encoding a polypeptide with similarities to actin-binding proteins. Ebert F, et al. **Arch Med Res** 1997;28 Spec No:136

Identification and location of the cell-binding domain in the 112 kDa adhesin gene of Entamoeba histolytica. García-Rivera G, et al. **Arch Med Res** 1997;28 Spec No:164–5

Control of gene expression in Entamoeba histolytica by a cis-acting upstream regulatory element. Gilchrist CA, et al. **Arch Med Res** 1997;28 Spec No:39–40

Characterization of the 5'-flanking region of the EhPgp1 gene of multidrug resistance in Entamoeba histolytica. Gómez MC, et al. **Arch Med Res** 1997;28 Spec No:62–3

Rac G, a small GTPase, regulates capping of surface receptors in Entamoeba histolytica. Guillen N, et al. **Arch Med Res** 1997;28 Spec No:129–31

Characterization of 5'-flanking sequence of the EhPgp5 gene of multidrug resistance in Entamoeba histolytica. Guillermo Pérez D, et al. **Arch Med Res** 1997;28 Spec No:64–5

Inducible gene expression in Entamoeba histolytica mediated by a tetracycline responsive prokaryotic repressor. Hamann L, et al. **Arch Med Res** 1997;28 Spec No:32–3

Entamoeba histolytica: partial cloning and expression of cDNAs encoding a 30 kDa collagen-binding protein. Jiménez-Delgadillo B, et al. **Arch Med Res** 1997;28 Spec No:173–4

Cloning and expression of E. histolytica gene which includes a putative PDI active site. Kimura A, et al.

Arch Med Res 1997;28 Spec No:76–7

Amebiasis in León, Nicaragua: Entamoebae in stool examination and identification of amebic liver abscess cases by serology and PCR. Linder E, et al. **Arch Med Res** 1997; 28 Spec No:314–6

Putative amplification of the EhPgp genes in Entamoeba histolytica emetine-resistant mutants. López C, et al. **Arch Med Res** 1997;28 Spec No:66–8

Upstream regions of rp L21 genes play a role in regulation of expression at the post-transcriptional level in E. histolytica and E. dispar. Moshitch-Moshkovitch S, et al. **Arch Med Res** 1997;28 Spec No:36–8

Molecular cloning and biochemical characterization of hexokinases and phosphoglucomutases from Entamoeba histolytica and Entamoeba dispar. Ortner S, et al. **Arch Med Res** 1997;28 Spec No:81–2

The sequence of a highly homologous gene to hgl2* of Entamoeba histolytica that is present and expressed in E.dispar. Pillai DR, et al. **Arch Med Res** 1997;28 Spec No:19–20

Establishment of an inducible expression system in Entamoeba histolytica. Ramakrishnan G, et al. **Arch Med Res** 1997;28 Spec No:34–5

The secretory pathway of Entamoeba histolytica: characterization and expression of the SRP54 gene. Ramos MA, et al. **Arch Med Res** 1997;28 Spec No:56–8

Characterization of cell division cycle regulating genes of Entamoeba histolytica by flow cytometry. Ray SS, et al. **Arch Med Res** 1997;28 Spec No:122–3

Subcellular location of the pyruvate: ferredoxin oxidoreductase from Entamoeba histolytica. Rodríguez MA, et al. **Arch Med Res** 1997;28 Spec No:89–90

The secretory pathway of Entamoeba histolytica: characterization and expression of the ERD2 gene. Sánchez-López R, et al. **Arch Med Res** 1997;28 Spec No:59–61

Three conserved cis-acting sequences in the core promoter control gene expression in the protozoan parasite Entamoeba histolytica. Singh U, et al. **Arch Med Res** 1997; 28 Spec No:41–2

Sequencing, analysis and expression in Escherichia coli of a gene encoding a 15 kDa Cryptosporidium parvum protein. Khramtsov NV, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):164–6

Cloning and sequence analysis of the DNA polymerase alpha gene of Leishmania donovani: comparison with the human homologue. Luton K, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):95–100

Molecular cloning and characterization of a cDNA for the highly conserved HMG-like protein (Pf16) gene of Plasmodium falciparum. Nambiar A, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):101–6

Organization, transcription and regulation of the Leishmania infantum histone H3 genes. Soto M, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):813–9

Nucleotide sequence and developmental expression of Acanthamoeba S-adenosylmethionine synthetase gene. Ahn KS, et al. **Biochim Biophys Acta** 1997 Mar 20; 1351(1-2):223–30

Temporal regulation of the Dictyostelium glycogen phosphorylase 2 gene. Rutherford CL, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):111–25

Detection and identification of Entamoeba gingivalis by specific amplification of rRNA gene. Kikuta N, et al. **Can J Microbiol** 1996 Dec;42(12):1248–51

TRAP is necessary for gliding motility and infectivity of plasmodium sporozoites. Sultan AA, et al. **Cell** 1997 Aug 8;90(3):511–22

Actin in the parasite Toxoplasma gondii is encoded by a single copy gene, ACT1 and exists primarily in a globular form. Dobrowolski JM, et al. **Cell Motil Cytoskeleton** 1997; 37(3):253–62

The intranuclear organization of normal, hemizygous and excision-deficient rRNA genes during developmental amplification in Tetrahymena thermophila. Ward JG, et al. **Chromosoma** 1997 Sep;106(4):233–42

Bradyzoite-specific genes. Bohne W, et al. **Curr Top Microbiol Immunol** 1996;219:81–91 (33 ref.)

Co-amplification of the gamma-glutamylcysteine synthetase gene gsh1 and of the ABC transporter gene pgpA in arsenite-resistant Leishmania tarentolae. Grondin K, et al. **EMBO J** 1997 Jun 2;16(11):3057–65

Pfmrk, a MO15-related protein kinase from Plasmodium falciparum. Gene cloning, sequence, stage-specific expression and chromosome localization [published erratum appears in Eur J Biochem 1997 Jan 15;243(1-2):537] Li JL, et al. **Eur J Biochem** 1996 Nov 1;241(3):805–13

Trypanosoma cruzi: study of the distribution of two widespread clonal genotypes in Bolivian Triatoma infestans vectors shows a high frequency of mixed infections. Bosseno MF, et al. **Exp Parasitol** 1996 Aug;83(3):275–82

The Tetrahymena chaperonin subunit CCT eta gene is coexpressed with CCT gamma gene during cilia biogenesis and cell sexual reproduction. Cyrne L, et al. **FEBS Lett** 1996 Apr 1;383(3):277–83

Cloning, sequencing and expression of ribonucleotide reductase R2 from Trypanosoma brucei. Dormeyer M, et al. **FEBS Lett** 1997 Sep 8;414(2):449–53

Molecular characterization of the Entamoeba histolytica enolase gene and modelling of the predicted protein. Hidalgo ME, et al. **FEMS Microbiol Lett** 1997 Mar 15; 148(2):123–9

The transcription promoter of the spliced leader gene from Trypanosoma cruzi. Nunes LR, et al. **Gene** 1997 Apr 1; 188(2):157–68

Cloning and characterisation of a gene from Plasmodium vivax and P. knowlesi: homology with valine-tRNA synthetase. Snewin VA, et al. **Gene** 1996 Sep 16; 173(2):137–45

Two ras genes in Dictyostelium minutum show high sequence homology, but different developmental regulation from Dictyostelium discoideum rasD and rasG genes. van Es S, et al. **Gene** 1997 Mar 10;187(1):93–7

Mapping three classical isozyme loci in tetrahymena: meiotic linkage of EstA to the ChxA linkage group. Allen SL, et al. **Genetics** 1996 Dec;144(4):1489–96

A dominant mutation in the Chlamydomonas reinhardtii nuclear gene SIM30 suppresses translational defects caused by initiation codon mutations in chloroplast genes. Chen X, et al. **Genetics** 1997 Apr;145(4):935–43

Detection of RAPD markers correlated with chloroquine resistance in Plasmodium falciparum. Lescuyer P, et al. **Genome Res** 1997 Jul;7(7):747–53

Construction and characterization of a Plasmodium vivax genomic library in yeast artificial chromosomes. Camargo AA, et al. **Genomics** 1997 Jun 15;42(3):467–73

Acute virulence in mice is associated with markers on chromosome VIII in Toxoplasma gondii. Howe DK, et al. **Infect Immun** 1996 Dec;64(12):5193–8

The growing importance of the plastid-like DNAs of the Apicomplexa. Jeffries AC, et al. **Int J Parasitol** 1996 Nov; 26(11):1139–50 (77 ref.)

Tandem duplication of rab genes followed by sequence divergence and acquisition of distinct functions in Trypanosoma brucei. Field H, et al. **J Biol Chem** 1997 Apr 18;272(16):10498–505

The multiple cpb cysteine proteinase genes of Leishmania mexicana encode isoenzymes that differ in their stage regulation and substrate preferences. Mottram JC, et al. **J Biol Chem** 1997 May 30;272(22):14285–93

Analysis of post-transcriptional regulation operating on transcription products of the tandemly linked Leishmania infantum hsp70 genes. Quijada L, et al. **J Biol Chem** 1997 Feb 14;272(7):4493–9

Sequence variation in the 18S rRNA gene, a target for PCR-based malaria diagnosis, in Plasmodium ovale from southern Vietnam. Kawamoto F, et al. **J Clin Microbiol** 1996 Sep;34(9):2287–9

Cloning and molecular analysis of the plasma membrane Ca(2+)-ATPase gene in Paramecium tetraurelia. Elwess NL, et al. **J Eukaryot Microbiol** 1997 May-Jun;44(3):250–7

Conjugation-specific genes in the ciliate Euplotes crassus: gene expression from the old macronucleus. Ling Z, et al. **J Eukaryot Microbiol** 1997 Jan-Feb;44(1):1–11

Epigenetic regulation of programmed genomic rearrangements in Paramecium aurelia. Meyer E, et al. **J Eukaryot Microbiol** 1996 Nov-Dec;43(6):453–61 (28 ref.)

Internal eliminated segments (IESs) of Oxytrichidae. Prescott DM, et al. **J Eukaryot Microbiol** 1996 Nov-Dec; 43(6):432–41 (22 ref.)

Chromosomal localization of five genes in Encephalitozoon cuniculi (Microsporidia). Vivares C, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):97S

Phylogenetic relationships of entomopathogenic nematodes (Heterorhabditidae and Steinernematidae) inferred from partial 18S rRNA gene sequences. Liu J, et al. **J Invertebr Pathol** 1997 May;69(3):246–52

Regulation and trafficking of three distinct 18 S ribosomal RNAs during development of the malaria parasite. Li J, et al. **J Mol Biol** 1997 Jun 6;269(2):203–13

Sequence variations in the large-subunit ribosomal RNA gene of Ammonia (Foraminifera, Protozoa) and their evolutionary implications. Holzmann M, et al. **J Mol Evol** 1996 Aug;43(2):145–51

Transcription in the early diverging eukaryote Trichomonas vaginalis: an unusual RNA polymerase II and alpha-amanitin-resistant transcription of protein-coding genes. Quon DVK, et al. **J Mol Evol** 1996 Sep;43(3):253–62

Extrachromosomal DNA in the Apicomplexa. Wilson RJ, et al. **Microbiol Mol Biol Rev** 1997 Mar;61(1):1–16 (127 ref.)

The calmodulin-ubiquitin (CUB) genes of Trypanosoma cruzi are essential for parasite viability. Ajioka J, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):217–25

A Plasmodium falciparum homologue of a rab specific GDP dissociation inhibitor. Attal G, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):91–5

Molecular characterization of a Plasmodium falciparum gene encoding the mitochondrial phosphate carrier. Bhaduri-McIntosh S, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):297–301

Disruption of a novel open reading frame of Plasmodium falciparum chromosome 9 by subtelomeric and internal deletions can lead to loss or maintenance of cytoadherence. Bourke PF, et al. **Mol Biochem Parasitol** 1996 Nov 12; 82(1):25–36

Cloning and sequence analysis of a novel member of the ATP-binding cassette (ABC) protein gene family from Plasmodium falciparum. Bozdech Z, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):41–51

Targeted disruption of expression site-associated gene-1 in bloodstream-form Trypanosoma brucei. Carruthers VB, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):65–79

Cloning, sequencing, and functional activity of the Trypanosoma brucei brucei alternative oxidase. Chaudhuri M, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):125–9

Differential expression of Leishmania major beta-tubulin genes during the acquisition of promastigote infectivity. Coulson RM, et al. **Mol Biochem Parasitol** 1996 Nov 25; 82(2):227–36

Phylogenetic relationships between Leishmania, Viannia and Sauroleishmania inferred from comparison of a variable domain within the RNA polymerase II largest subunit gene. Croan D, et al. **Mol Biochem Parasitol** 1996 Jul; 79(1):97–102

Identification of a family of Rab G-proteins in Plasmodium falciparum and a detailed characterisation of pfrab6. de Castro FA, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):77–88

Molecular characterization of the glutathione peroxidase gene of the human malaria parasite Plasmodium falciparum. Gamain B, et al. **Mol Biochem Parasitol** 1996 Jun; 78(1-2):237–48

Addendum to "Trypanosoma brucei dihydrofolate reductase-thymidylate synthase: gene isolation and expression and characterization of the enzyme" [Mol. Biochem. Parasitol. 72 (1995) 11–22]. Gamarro F, et al. **Mol Biochem Parasitol** 1995 Dec;75(1):127

Cloning of a ribosomal phosphoprotein P0 gene homologue from Plasmodium falciparum. Goswami A, et al. **Mol Biochem Parasitol** 1996 Nov 12;82(1):117–20

Compartmentalization of genes coding for immunodominant antigens to fragile chromosome ends leads to dispersed subtelomeric gene families and rapid gene evolution in Plasmodium falciparum. Hernandez-Rivas R, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):137–48

Dimorphic sequences of rap-1 genes encode B and CD4+ T helper lymphocyte epitopes in the Babesia bigemina rhoptry associated protein-1. Hötzel I, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):89–99

Expression of Toxoplasma gondii genes in the closely-related apicomplexan parasite Neospora caninum. Howe DK, et al. **Mol Biochem Parasitol** 1997 May;86(1):29–36

Isolation and characterization of Leishmania donovani calreticulin gene and its conservation of the RNA binding activity. Joshi M, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):53–64

Sequence analysis of the apical membrane antigen-1 genes (ama-1) of Plasmodium yoelii yoelii and Plasmodium berghei. Kappe SH, et al. **Mol Biochem Parasitol** 1996 Jun; 78(1-2):279–83

Identification and cloning of a locus of serine repeat antigen (sera)-related genes from Plasmodium vivax. Kiefer MC, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):55–65

A putative Plasmodium falciparum exported serine/threonine protein kinase. Kun JF, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):41–51

Genomic representation of var gene sequences in Plasmodium falciparum field isolates from different geographic regions. Kyes S, et al. **Mol Biochem Parasitol** 1997 Aug;87(2):235–8

A dense granule protein (NCDG1) gene from Neospora caninum. Lally N, et al. **Mol Biochem Parasitol** 1997 Aug; 87(2):239–43

Cloning and characterization of a gene encoding a novel immunodominant antigen of Trypanosoma cruzi. Leséchal M, et al. **Mol Biochem Parasitol** 1997 Aug; 87(2):193–204

Tubulin genes from AIDS-associated microsporidia and implications for phylogeny and benzimidazole sensitivity. Li J, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):289–95

Isolation, characterization and expression of the gene encoding cytidine triphosphate synthetase from Giardia intestinalis. Lim RL, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):249–57

The esag 8 gene of Trypanosoma brucei encodes a nuclear protein. Lips S, et al. **Mol Biochem Parasitol** 1996 Jul; 79(1):113–7

Molecular cloning of the gene encoding the 83 kDa amastigote surface protein and its identification as a member of the Trypanosoma cruzi sialidase superfamily. Low HP, et al. **Mol Biochem Parasitol** 1997 Sep; 88(1-2):137–49

Detection of single copy gene sequences from single trypanosomes. MacLeod A, et al. **Mol Biochem Parasitol** 1997 Feb;84(2):267–70

Characterisation of the gene encoding adenylosuccinate lyase of Plasmodium falciparum. Marshall VM, et al. **Mol Biochem Parasitol** 1997 Sep;88(1-2):237–41

Immunolocalization and sequence of caltractin/centrin from the early branching eukaryote Giardia lamblia. Meng TC, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):103–8

Molecular characterization and expression of a N-acetylneuraminate lyase gene from Trichomonas vaginalis. Meysick KC, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1-2):289–92

A homologue of the cysteine proteinase gene (ACP1 or Eh-CPp3) of pathogenic Entamoeba histolytica is present in non-pathogenic E. dispar strains. Mirelman D, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):47–54

Structure of the Trypanosoma brucei U6 snRNA gene promoter. Nakaar V, et al. **Mol Biochem Parasitol** 1997 Sep;88(1-2):13–23

Characterisation and expression of a stage-regulated gene of Leishmania major. Nourbakhsh F, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1-2):201–13

Effects of 3' untranslated and intergenic regions on gene

expression in Trypanosoma cruzi. Nozaki T, et al. **Mol Biochem Parasitol** 1995 Dec;75(1):55–67

Molecular cloning of the Toxoplasma gondii sag4 gene encoding an 18 kDa bradyzoite specific surface protein. Odberg-Ferragut C, et al. **Mol Biochem Parasitol** 1996 Nov 25;82(2):237–44

Molecular biology of the hexokinase isoenzyme pattern that distinguishes pathogenic Entamoeba histolytica from nonpathogenic Entamoeba dispar. Ortner S, et al. **Mol Biochem Parasitol** 1997 May;86(1):85–94

Isolation and molecular characterization of the bifunctional hydroxymethyldihydropterin pyrophosphokinase-dihydropteroate synthase gene from Toxoplasma gondii. Pashley TV, et al. **Mol Biochem Parasitol** 1997 May;86(1):37–47

A cloned gene of Cryptosporidium parvum encodes neutralization-sensitive epitopes. Perryman LE, et al. **Mol Biochem Parasitol** 1996 Oct 1;80(2):137–47

Conservation of low-copy gene loci in Old World leishmanias identifies mechanisms of parasite evolution and diagnostic markers. Pogue GP, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):27–40

Chemical synthesis of the Plasmodium falciparum dihydrofolate reductase-thymidylate synthase gene. Prapunwattana P, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):93–106

Upstream regulatory elements controlling expression of the Entamoeba histolytica lectin. Purdy JE, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):91–103

Entamoeba histolytica contains a gene encoding a homologue to the 54 kDa subunit of the signal recognition particle. Ramos MA, et al. **Mol Biochem Parasitol** 1997 Sep; 88(1–2):225–35

The Entamoeba histolytica proteasome alpha-subunit gene. Ramos MA, et al. **Mol Biochem Parasitol** 1997 Jan; 84(1):131–5

Expression and characterization of the Trypanosoma cruzi dihydrofolate reductase domain. Reche P, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):175–85

Genomic organization and expression of elongation factor-1 alpha genes in Trypanosoma brucei. Ridgley EL, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):119–23

Cloning and expression of the thrombospondin related adhesive protein gene of Plasmodium berghei. Robson KJ, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):1–12

Cloning and characterization of the Entamoeba histolytica pyruvate: ferredoxin oxidoreductase gene. Rodríguez MA, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):273–7

Telomere exchange can be an important mechanism of variant surface glycoprotein gene switching in Trypanosoma brucei. Rudenko G, et al. **Mol Biochem Parasitol** 1996 Sep;80(1):65–75

Mucin-like glycoprotein genes are closely linked to members of the trans-sialidase super-family at multiple sites in the Trypanosoma cruzi genome. Salazar NA, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):127–36

Sequence of a malic enzyme gene of Giardia lamblia. Sánchez LB, et al. **Mol Biochem Parasitol** 1996 Nov 25;82(2):145–51

The identification and molecular characterization of Trypanosoma cruzi amastigote surface protein-1, a member of the trans-sialidase gene super-family. Santos MA, et al. **Mol Biochem Parasitol** 1997 May;86(1):1–11

Characterisation of genes encoding a nucleoside monophosphate kinase and a L35 ribosomal protein from Babesia bovis. Silins GU, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):231–44

Isolation and expression of an open reading frame encoding sialidase from Trypanosoma rangeli. Smith LE, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):21–33

Trypanosoma brucei with an active metacyclic variant surface gene expression site expresses a transferrin receptor derived from esag6 and esag7. Steverding D, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):285–8

A stage regulated cyclophilin gene from Theileria annulata. Swan DG, et al. **Mol Biochem Parasitol** 1996 Oct 18; 81(1):111–4

Cloning of a Plasmodium falciparum gene related to the human 60-kDa heat shock protein [published erratum appears in Mol Biochem Parasitol 1996 Dec 20;83(2):263] Syin C, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):13–9

Analysis of Plasmodium falciparum multidrug-resistance (pfmdr1) gene mutation by hairpin-dependent cleavage fragment length polymorphism. Tahar R, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):243–7

Cloning of an Fe-superoxide dismutase gene homologue from Trypanosoma cruzi. Temperton NJ, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):339–43

Cloning and cross-species comparison of the thrombospondin-related anonymous protein (TRAP) gene from Plasmodium knowlesi, Plasmodium vivax and Plasmodium gallinaceum. Templeton TJ, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):13–24

The gene for histone H2A from the insect trypanosome Crithidia fasciculata. Tittawella I, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):259–62

Cloning and characterization of Plasmodium falciparum ADP-ribosylation factor and factor-like genes. Truong RM, et al. **Mol Biochem Parasitol** 1997 Feb;84(2):247–53

Primary structure of a novel ookinete surface protein from Plasmodium berghei. Tsuboi T, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):131–4

Phylogenetic implication of iron-containing superoxide dismutase genes from trichomonad species. Viscogliosi E, et al. **Mol Biochem Parasitol** 1996 Oct 1;80(2):209–214

Molecular characterisation of an expressed sequence tag locus of Toxoplasma gondii encoding the micronemal protein MIC2. Wan KL, et al. **Mol Biochem Parasitol** 1997 Feb; 84(2):203–14

Gene cloning and cellular localization of a membrane-bound acid phosphatase of Leishmania mexicana. Wiese M, et al. **Mol Biochem Parasitol** 1996 Nov 25;82(2):153–65

Characterization of the delta-aminolevulinate synthase gene homologue in P. falciparum [corrected and republished article originally printed in Mol Biochem Parasitol 1996 Jan;75(2):271–6] Wilson CM, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):135–40

Characterization of ubiquitin genes and -transcripts and demonstration of a ubiquitin-conjugating system in Entamoeba histolytica. Wöstmann C, et al. **Mol Biochem Parasitol** 1996 Nov 12;82(1):81–90

A group of Giardia lamblia variant-specific surface protein (VSP) genes with nearly identical 5' regions. Yang Y, et al. **Mol Biochem Parasitol** 1995 Dec;75(1):69–74

Stable coexpression of a drug-resistance gene and a heterologous gene in an ancient parasitic protozoan Giardia lamblia. Yu DC, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):81–91

Identification and overexpression of the A2 amastigote-specific protein in Leishmania donovani. Zhang WW, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):79–90

The beta tubulin gene of Eimeria tenella. Zhu G, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):315–9

A sex recognition glycoprotein is encoded by the plus mating-type gene fus1 of Chlamydomonas reinhardtii. Ferris PJ, et al. **Mol Biol Cell** 1996 Aug;7(8):1235–48

Selection against the dihydrofolate reductase-thymidylate synthase (DHFR-TS) locus as a probe of genetic alterations in Leishmania major. Gueiros-Filho FJ, et al. **Mol Cell Biol** 1996 Oct;16(10):5655–63

The 3' untranslated regions of chloroplast genes in Chlamydomonas reinhardtii do not serve as efficient transcriptional terminators. Rott R, et al. **Mol Gen Genet** 1996 Oct 28;252(6):676–83

Entamoeba histolytica and Entamoeba dispar: differences in numbers and expression of cysteine proteinase genes. Bruchhaus I, et al. **Mol Microbiol** 1996 Oct;22(2):255–63

Common cis-acting elements critical for the expression of several genes of Toxoplasma gondii. Mercier C, et al. **Mol Microbiol** 1996 Jul;21(2):421–8

The germline gene encoding DNA polymerase alpha in the hypotrichous ciliate Oxytricha nova is extremely scrambled. Hoffman DC, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3337–40

Evolution of internal eliminated segments and scrambling in the micronuclear gene encoding DNA polymerase alpha in two Oxytricha species. Hoffman DC, et al. **Nucleic Acids Res** 1997 May 15;25(10):1883–9

A single gene copy merozoite surface antigen and immune evasion? O'Dea KP, et al. **Parasite Immunol** 1996 Apr; 18(4):165–72

A gene highly homologous to ACP1 encoding cysteine proteinase 3 in Entamoeba histolytica is present and expressed in E. dispar. Bruchhaus I, et al. **Parasitol Res** 1996;82(2):189–92

Germ-line knockout heterokaryons of an essential alpha-tubulin gene enable high-frequency gene replacement and a test of gene transfer from somatic to germ-line nuclei in Tetrahymena thermophila. Hai B, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1310–5

An unusual histone H3 specific for early macronuclear development in Euplotes crassus. Jahn CL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1332–7

A novel clade of protistan parasites near the animal-fungal divergence. Ragan MA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11907–12

Transcription initiation is controlled by three core promoter elements in the hgl5 gene of the protozoan parasite Entamoeba histolytica. Singh U, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8812–7

The U5 RNA of trypanosomes deviates from the canonical U5 RNA: the Leptomonas collosoma U5 RNA and its coding gene. Xu Yx, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8473–8

Guide RNAs and guide RNA genes in the cryptobiid kinetoplastid protozoan, Trypanoplasma borreli. Yasuhira S, et al. **RNA** 1996 Nov;2(11):1153–60

GENETICS

Targeted mutations in the psaC gene of Chlamydomonas reinhardtii: preferential reduction of FB at low temperature is not accompanied by altered electron flow from photosystem I to ferredoxin. Fischer N, et al. **Biochemistry** 1997 Jan 7;36(1):93–102

Pdd1p, a novel chromodomain-containing protein, links heterochromatin assembly and DNA elimination in Tetrahymena. Madireddi MT, et al. **Cell** 1996 Oct 4; 87(1):75–84

The 5'regulatory region from the Drosophila pseudoobscura hsp82 gene results in a high level of reporter gene expression in Lucilia cuprina embryos. Coates CJ, et al. **Gene** 1996 Oct 10;175(1–2):199–201

Synthesis and expression of genes encoding putative insect neuropeptide precursors in tobacco. Rao R, et al. **Gene** 1996 Oct 10;175(1–2):1–5

heartless encodes a fibroblast growth factor receptor (DFR1/DFGF-R2) involved in the directional migration of early mesodermal cells in the Drosophila embryo. Gisselbrecht S, et al. **Genes Dev** 1996 Dec 1;10(23):3003–17

Telomeric organization of a variable and inducible toxin gene family in the ancient eukaryote Giardia duodenalis. Upcroft P, et al. **Genome Res** 1997 Jan;7(1):37–46

The variation of Pf155/RESA gene in field isolates of Plasmodium falciparum from Thailand. Sueblinvong T, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S40–8

alpha-Tubulin of Histriculus cavicola (Ciliophora; Hypotrichea). Pérez-Romero P, et al. **Microbiologia** 1997 Mar;13(1):57–66

Structure and polymorphism of the upstream region of the pfg27/25 gene, transcriptionally regulated in gametocytogenesis of Plasmodium falciparum. Alano P, et al. **Mol Biochem Parasitol** 1996 Aug;79(2):207–17

Tetracycline-controlled gene expression in Entamoeba histolytica. Hamann L, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):83–91

Trypanosoma cruzi strains partition into two groups based on the structure and function of the spliced leader RNA and rRNA gene promoters. Nunes LR, et al. **Mol Biochem Parasitol** 1997 Jun;86(2):211–24

Interallelic recombination in the merozoite surface protein 1 (MSP-1) gene of Plasmodium vivax from Thai isolates. Putaporntip C, et al. **Mol Biochem Parasitol** 1997 Jan; 84(1):49–56

A tetracycline-inducible gene expression system in Entamoeba histolytica. Ramakrishnan G, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):93–100

Evidence of cross-contamination among laboratory lines of Plasmodium berghei. Saul A, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):143–7

Concerted evolution at a multicopy locus in the protozoan parasite Theileria parva: extreme divergence of potential protein-coding sequences. Bishop R, et al. **Mol Cell Biol** 1997 Mar;17(3):1666–73

Volatility of internal eliminated segments in germ line genes of hypotrichous ciliates. DuBois ML, et al. **Mol Cell Biol** 1997 Jan;17(1):326–37

Molecular cloning of a Plasmodium falciparum gene interrupted by 15 introns encoding a functional primase 53 kDa subunit as demonstrated by expression in a baculovirus system. Prasartkaew S, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3934–41

pfmdr1 gene mutation and clinical response to chloroquine in Yaoundé, Cameroon. Basco LK, et al. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr;91(2):210–1

IMMUNOLOGY

Production of recombinant SERA proteins of Plasmodium falciparum in Escherichia coli by using synthetic genes. Sugiyama T, et al. **Vaccine** 1996 Aug;14(11):1069–76

PHYSIOLOGY

Sorting of the initial cell types in Dictyostelium is dependent on the tipA gene. Stege JT, et al. **Dev Biol** 1997 May 1; 185(1):34–41

Manipulation of the vsg co-transposed region increases expression-site switching in Trypanosoma brucei. Davies KP, et al. **Mol Biochem Parasitol** 1997 Jun;86(2):163–77

GENES, PX

Comparison of the antiviral efficacy of ribozymes and antisense RNA directed against bovine leukemia virus rex/tax. Cantor GH, et al. **Antisense Nucleic Acid Drug Dev** 1996 Winter;6(4):301–4

Absence of HTLV-1 tax in Sjögren's syndrome [letter; comment] Rigby SP, et al. **Arthritis Rheum** 1996 Sep; 39(9):1609–11. Comment on: Arthritis Rheum 1993 Oct;36(10):1423–8. Comment on: Arthritis Rheum 1994 Apr;37(4):545–50.

Cytokine expression and tumorigenicity of large granular lymphocytic leukemia cells from mice transgenic for the tax gene of human T-cell leukemia virus type I. Grossman WJ, et al. **Blood** 1997 Jul 15;90(2):783–94

Rat primary T cells expressing HTLV-I tax gene transduced by a retroviral vector: in vitro and in vivo characterization. Murata K, et al. **Int J Cancer** 1996 Sep 27;68(1):102–8

Coding potential of the X region of human T-cell leukemia/lymphotropic virus type II. Ciminale V, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S220–7 (38 ref.)

In vivo study of genetically simplified bovine leukemia virus derivatives that lack tax and rex. Boris-Lawrie K, et al. **J Virol** 1997 Feb;71(2):1514–20

A cooperative interaction of human T-cell leukemia virus type 1 Tax with the p21 cyclin-dependent kinase inhibitor activates the human immunodeficiency virus type 1 enhancer. Parker SF, et al. **J Virol** 1996 Aug;70(8):5731–4

The tax gene of human T-cell leukemia virus type 2 is essential for transformation of human T lymphocytes. Ross TM, et al. **J Virol** 1996 Aug;70(8):5194–202

Inhibition of syncytium formation by antisense oligonucleotide phosphorothioates complementary to tax mRNA of human T-cell leukemia virus type 1 (HTLV-1). Maeda N, et al. **Leukemia** 1997 Apr;11 Suppl 3:42–4

Characterization of peripheral blood T-lymphocytes transduced with HTLV-I Tax mutants with different

trans-activating phenotypes. Akagi T, et al. **Oncogene** 1997 May 1;14(17):2071-8

[Higher expression levels of alternatively spliced pX mRNA in human T lymphotropic virus type I (HTLV-I) asymptomatic carriers positive for antibodies to p40tax protein] Hirata M. **Fukuoka Igaku Zasshi** 1996 Jan; 87(1):23-34 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Inhibition of HTLV-I induction and virus-induced syncytia formation by oligodeoxynucleotides. Miyano-Kurosaki N, et al. **Virus Genes** 1996;12(3):205-17

GENETICS

Human T-cell lymphotropic virus tax and Epstein-Barr virus DNA in peripheral blood of multiple sclerosis patients during acute attack. Ferrante P, et al. **Acta Neurol Scand Suppl** 1997;169:79-85

IMMUNOLOGY

A wide spectrum of collagen vascular and autoimmune diseases in transgenic rats carrying the env-pX gene of human T lymphocyte virus type I. Yamazaki H, et al. **Int Immunol** 1997 Feb;9(2):339-46

PHYSIOLOGY

HTLV Tax gene expression in patients with lymphoproliferative disorders. Cardoso EA, et al. **J Clin Pathol** 1996 Nov;49(11):938-41

[Pathomechanism of HTLV-I associated arthropathy and the role of tax gene] Hasunuma T. **Nippon Rinsho** 1997 Jun; 55(6):1482-5 (19 ref.) (Eng. Abstr.) **(Jpn)**

GENES, R see **GENES, VPR**

GENES, RAG-1

Diverse properties of human t(8;14) neoplasms: [1] ATLS and absence of BCL-2 [2] modulation of RAG-1 expression with S-Ig ligation. Tani A, et al. **Hum Cell** 1996 Dec; 9(4):337-44

Complementation of V(D)J recombination deficiency in RAG-1(-/-) B cells reveals a requirement for novel elements in the N-terminus of RAG-1. Roman CA, et al. **Immunity** 1997 Jul;7(1):13-24

Expression of the recombinase-activating gene (RAG-1) in murine early embryogenesis. Hayakawa S, et al. **Immunol Cell Biol** 1996 Feb;74(1):52-6

Reconstitution of B cell subsets in Rag deficient mice by transplantation of in vitro differentiated embryonic stem cells. Potocnik AJ, et al. **Immunol Lett** 1997 Jun 1; 57(1-3):131-7

Mutational analysis of RAG-1 in lymphoid malignancies. Nomdedéu J, et al. **Leukemia** 1996 Nov;10(11):1715-8

Neoteny in lymphocytes: Rag1 and Rag2 expression in germinal center B cells. Han S, et al. **Science** 1996 Dec 20;274(5295):2094-7

Reexpression of RAG-1 and RAG-2 genes in activated mature mouse B cells. Hikida M, et al. **Science** 1996 Dec 20;274(5295):2092-4

Rapid sequencing protocol using microconcentrators. Petroni D, et al. **Trends Genet** 1996 May;12(5):167-8

GENETICS

Induction of recombination activating gene expression in a human lymphoid progenitor cell line: requirement of two separate signals from stromal cells and cytokines. Tagoh H, et al. **Blood** 1996 Dec 15;88(12):4463-73

GENES, RAP see **GENES, VPR**

GENES, RAS

see related
ONCOGENE PROTEIN P21(RAS)
PROTO-ONCOGENE PROTEIN P21(RAS)
RAS PROTEINS

Nucleotide sequence of c-H-ras-1 gene from B6C3F1 mice. Przybojewska B, et al. **Acta Biochim Pol** 1996;43(3):575-8

Quercetin as a modulator of the cellular neoplastic phenotype. Effects on the expression of mutated H-ras and p53 in rodent and human cells. Avila MA, et al. **Adv Exp Med Biol** 1996;401:101-10

Single somatic ras gene point mutation in soft tissue malignant fibrous histiocytomas. Bohle RM, et al. **Am J Pathol** 1996 Mar;148(3):731-8

Increased PTHRP production by a tyrosine kinase oncogene, Tpr-Met: role of the Ras signaling pathway. Aklilu F, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E277-83

Deregulation of hexose transporter expression in Caco-2 cells by ras and polyoma middle T oncogenes. Baron-Delage S, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G314-23

Angiotensin II type 1 receptor-mediated activation of Ras in cultured rat vascular smooth muscle cells. Okuda M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H595-601

Detection of infrequent and multiple K-ras mutations in human tumors and tumor-adjacent tissues. Keohavong P, et al. **Anal Biochem** 1997 May 1;247(2):394-403

Late occurrence of K-ras gene mutations in the pathogenesis of squamous cell carcinoma of the lung: analysis in sputum [letter] Zhang Z, et al. **Anal Quant Cytol Histol** 1996 Dec; 18(6):501-2

Detection of mutated c-Ki-ras in the bile of patients with pancreatic cancer. Abbruzzese JL, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):795-801

Mutation of ras oncogene in gastric adenocarcinoma: association with histological phenotype. Kim TY, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1335-9

Papillary cystic tumors of the pancreas: assessment of malignant potential by analysis of progesterone receptor, flow cytometry, and ras oncogene mutation. Lee WY, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2587-91

K-ras mutation in Greek patients with poorly and moderately differenciated tumours of the lower intestinal tract. Troungos C, et al. **Anticancer Res** 1997 Mar-Apr; 17(2B):1399-404

Adenovirus-mediated transfer of a dominant-negative H-ras suppresses neointimal formation in balloon-injured arteries in vivo. Ueno H, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):898-904

Effect of oncogene transformation of rat embryo cells on cellular oxygen consumption and glycolysis. Biaglow JE, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):739-42

Deregulated expression and function of CFTR and Cl- secretion after activation of the Ras and Src/PyMT pathways in Caco-2 cells. Davenport SE, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):663-72

Inhibition of anchorage-independent growth of ras-transformed cells on polyHEMA surface by antisense oligodeoxynucleotides directed against K-ras. Kawada M, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):735-7

Mutated Atf4 suppresses c-Ha-ras oncogene transcript levels and cellular transformation in NIH3T3 fibroblasts. Mielnicki LM, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):586-95

DJ-1, a novel oncogene which transforms mouse NIH3T3 cells in cooperation with ras. Nagakubo D, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):509-13

Inhibitors of Ras farnesylation revert the increased resistance to oxidative stress in K-Ras transformed NIH 3T3 cells. Santillo M, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):739-45

P52PAI-1 gene expression in butyrate-induced flat revertants of v-ras-transformed rat kidney cells: mechanism of induction and involvement in the morphological response. Higgins PJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):431-7

Role of H-ras gene in chronic liver damage in mice. By using transgenic mice carrying a human C-H-ras proto-oncogene without mutations. Tsunematsu S, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):371-9

Modulation of cytotoxicity of chemotherapeutic drugs by activated H-ras. Fan J, et al. **Biochem Pharmacol** 1997 Apr 25;53(8):1203-9

Activated N-RAS causes differentiation of K562 cells. Jenkinson D, et al. **Biochem Soc Trans** 1997 May;25(2):252S

Analysis of K-ras in the stools of patients with colorectal tumors. Pagani R, et al. **Biochem Soc Trans** 1996 May; 24(2):260S

(A,G)-oligonucleotides form extraordinary stable triple helices with a critical R.Y sequence of the murine c-Ki-ras promoter and inhibit transcription in transfected NIH 3T3 cells. Alunni-Fabbroni M, et al. **Biochemistry** 1996 Dec 17;35(50):16361-9

Solution structure of two mismatches G.G and I.I in the K-ras gene context by nuclear magnetic resonance and molecular dynamics. Faibis V, et al. **Biochemistry** 1996 Nov 19;35(46):14452-64

Overexpression of Ha-ras enhances the transcription of human arachidonate 12-lipoxygenase promoter in A431 cells. Chen BK, et al. **Biochim Biophys Acta** 1997 Feb 18; 1344(3):270-7

Farnesyltransferase inhibitors and cancer treatment: targeting simply Ras? Cox AD, et al. **Biochim Biophys Acta** 1997 Aug 8;1333(1):F51-71 (139 ref.)

Effects of bradykinin on NIH 3T3 fibroblasts pretreated with lithium. Mimicking events of Ha-ras oncogene expression. Ritter M, et al. **Biochim Biophys Acta** 1997 Aug 21; 1358(1):23-30

About the large fluctuations observed using gas-phase molecular dynamics in the K-ras gene containing a mismatch. Ouali M, et al. **Biochimie** 1995;77(11):835-9

Activating mutations of N- and K-ras in multiple myeloma show different clinical associations: analysis of the Eastern Cooperative Oncology Group Phase III Trial. Liu P, et al. **Blood** 1996 Oct 1;88(7):2699-706

Ki-ras point mutations and proliferation activity in biliary tract carcinomas. Ohashi K, et al. **Br J Cancer** 1996 Sep; 74(6):930-5

A detailed analysis of the role of K-ras gene mutation in the progression of colorectal adenoma. Ohnishi T, et al. **Br J Cancer** 1997;75(3):341-7

Detection of K-ras gene mutations at codon 12 in the pancreatic juice of patients with intraductal papillary mucinous tumors of the pancreas. Kondo H, et al. **Cancer** 1997 Mar 1;79(5):900-5

Activation of the K-ras oncogene in colorectal neoplasms is associated with decreased apoptosis. Ward RL, et al. **Cancer** 1997 Mar 15;79(6):1106-13

The presence of K-12 ras mutations in duodenal adenocarcinomas and the absence of ras mutations in other small bowel adenocarcinomas and carcinoid tumors. Younes N, et al. **Cancer** 1997 May 1;79(9):1804-8

Ras oncogene-transformed and nontransformed cell populations are each heterogeneous but respond differently to the chemotherapeutic drug cytosine arabinoside (Ara-C). Axelrod DE, et al. **Cancer Chemother Pharmacol** 1997;39(5):445-51

A possible role for human papillomaviruses and c-myc, c-Ha-ras, and p53 gene alterations in malignant cutaneous lesions from renal transplant recipients. Pelisson I, et al. **Cancer Detect Prev** 1996;20(1):20-30

p53 is frequently mutated in Barrett's metaplasia of the intestinal type. Campomenosi P, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):559-65

Tumor inhibitory activity of anti-ras ribozymes delivered by retroviral gene transfer. Li M, et al. **Cancer Gene Ther** 1996 Jul-Aug;3(4):221-9

H-ras transfection of the rat kidney cell line NRK-52E results in increased induction of c-fos, c-jun and hsp70 following sulofenur treatment. Gu H, et al. **Cancer Lett** 1996 Sep 10;106(2):199-205

Mutations of K-ras but not p53 genes in biliary duct and pancreatic duct carcinomas induced in hamsters by cholecystoduodenostomy with dissection of the common duct followed by N-nitrosobis(2-oxopropyl)amine. Majima T, et al. **Cancer Lett** 1997 Sep 16;118(1):47-53

Decrease in the expression of a novel TGF beta1-inducible and ras-recision gene, TSC-36, in human cancer cells. Mashimo J, et al. **Cancer Lett** 1997 Feb 26;113(1-2):213-9

Immortalization of inbred rabbit keratinocytes from a Shope papilloma and tumorigenic transformation of the cells by EJ-ras. Peng X, et al. **Cancer Lett** 1996 Nov 12; 108(1):101-9

K-ras and p53 mutations in aberrant crypt foci and colonic tumors from colon cancer patients. Shivapurkar N, et al. **Cancer Lett** 1997 May 1;115(1):39-46

Infrequent Ki-ras and an absence of p53 mutations in hepatocellular carcinomas induced by a choline deficient L-amino acid defined diet in rats. Tsujiuchi T, et al. **Cancer Lett** 1996 Nov 12;108(1):137-41

Activating mutations in the N- and K-ras oncogenes differentially affect the growth properties of the IL-6-dependent myeloma cell line ANBL6. Billadeau D, et al. **Cancer Res** 1997 Jun 1;57(11):2268-75

Loss of retinoic acid receptors in mouse skin and skin tumors is associated with activation of the ras(Ha) oncogene and high risk for premalignant progression. Darwiche N, et al. **Cancer Res** 1996 Nov 1;56(21):4942-9

Alterations in H-ras1 promoter conformation during N-nitroso-N-methylurea-induced mammary carcinogenesis and pregnancy. Jin Z, et al. **Cancer Res** 1996 Nov 1;56(21):4927-35

Up-regulation of vascular endothelial growth factor/vascular permeability factor in mouse skin carcinogenesis correlates with malignant progression state and activated H-ras expression levels. Larcher F, et al. **Cancer Res** 1996 Dec 1;56(23):5391-6

p16 and K-ras gene mutations in the intraductal precursors of human pancreatic adenocarcinoma. Moskaluk CA, et al. **Cancer Res** 1997 Jun 1;57(11):2140-3

Site- and strand-specific mismatch repair of human H-ras genomic DNA in a mammalian cell line. Arcangeli L, et al. **Carcinogenesis** 1997 Jul;18(7):1311-8

Ha-ras-1 oncogene mutations in mammary epithelial cells do not contribute to initiation of spontaneous mammary tumorigenesis in rats. Cha RS, et al. **Carcinogenesis** 1996 Nov;17(11):2519-24

Site-specific modification of the human N-ras proto-oncogene with each diol epoxide metabolite of benzo[a]pyrene and thermal denaturation studies of the adducted duplexes. Chaturvedi S, et al. **Carcinogenesis** 1996 Dec;17(12):2747-52

Quantitation of early clonal expansion of two mutant 61st codon c-Ha-ras alleles in DMBA/TPA treated mouse skin by nested PCR/RFLP. Finch JS, et al. **Carcinogenesis** 1996 Dec;17(12):2551-7

Induction of esophageal tumors in zinc-deficient rats by single low doses of N-nitrosomethylbenzylamine (NMBA): analysis of cell proliferation, and mutations in H-ras and p53 genes. Fong LY, et al. **Carcinogenesis** 1997 Aug; 18(8):1477-84

Distribution of p53 and K-ras mutations in human lung cancer tissues. Gao HG, et al. **Carcinogenesis** 1997 Mar; 18(3):473-8

Association of tumor development with increased cellular proliferation and transgene overexpression, but not c-Ha-ras mutations, in v-Ha-ras transgenic Tg.AC mice. Hansen LA, et al. **Carcinogenesis** 1996 Sep;17(9):1825-33

Variant mutational activation of the K-ras oncogene in renal mesenchymal tumors induced in newborn F344 rats by methyl(methoxymethyl)nitrosamine. Higinbotham KG, et al. **Carcinogenesis** 1996 Dec;17(12):2625-30

Both K-ras and H-ras protooncogene mutations are associated with Harderian gland tumorigenesis in B6C3F1 mice exposed to isoprene for 26 weeks. Hong HL, et al. **Carcinogenesis** 1997 Apr;18(4):783-9

Low O6-alkylguanine DNA-alkyltransferase activity in normal colorectal tissue is associated with colorectal tumours containing a GC-->AT transition in the K-ras oncogene. Jackson PE, et al. **Carcinogenesis** 1997 Jul; 18(7):1299-302

Ki-ras mutations are an early event and correlate with tumor

stage in transplacentally-induced murine lung tumors. Leone-Kabler S, et al. **Carcinogenesis** 1997 Jun; 18(6):1163-8

Transplacental mutagenicity of cisplatin: H-ras codon 12 and 13 mutations in skin tumors of SENCAR mice. Munoz EF, et al. **Carcinogenesis** 1996 Dec;17(12):2741-5

Agreement of mutational characteristics of heterocyclic amines in lacI of the Big Blue mouse with those in tumor related genes in rodents. Okonogi H, et al. **Carcinogenesis** 1997 Apr;18(4):745-8

In vitro activation of the human Harvey-ras proto-oncogene by aflatoxin B1. Riley J, et al. **Carcinogenesis** 1997 May; 18(5):905-10

Similar incidence of K-ras mutations in lung carcinomas of FVB/N mice and FVB/N mice carrying a mutant p53 transgene. Shafarenko M, et al. **Carcinogenesis** 1997 Jul; 18(7):1423-6

Absence of mutations in the transforming growth factor-beta type II receptor in sporadic lung cancers with microsatellite instability and rare H-ras1 alleles. Takenoshita S, et al. **Carcinogenesis** 1997 Jul;18(7):1427-9

Rapid induction of more malignant tumors by various genotoxic carcinogens in transgenic mice harboring a human prototype c-Ha-ras gene than in control non-transgenic mice. Yamamoto S, et al. **Carcinogenesis** 1996 Nov;17(11):2455-61

Inhibition of cellular growth and steroid 11 beta-hydroxylation in ras-transformed adrenocortical cells by the fungal toxins beticolins. Ding G, et al. **Cell Biol Int** 1996 Aug;20(8):523-30

Suppression of tumorigenicity in Ras-transformed fibroblasts by alpha 2(I) collagen. Travers H, et al. **Cell Growth Differ** 1996 Oct;7(10):1353-60

Lower levels of 1H MRS-visible mobile lipids in H-ras transformed tumorigenic fibroblasts with respect to their untransformed parental cells. Knijn A, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):691-701

Using UvrABC nuclease to detect 7,12-dimethylbenz[a]anthracene anti-diol epoxide-DNA binding specificity in the mouse H-ras gene. Chen JX, et al. **Chem Res Toxicol** 1996 Dec;9(8):1350-4

Solution structure of an oligodeoxynucleotide containing the human N-ras codon 12 sequence refined from 1H NMR using molecular dynamics restrained by nuclear Overhauser effects. Zegar IS, et al. **Chem Res Toxicol** 1996 Jan-Feb; 9(1):114-25

Alterations of level of total genomic DNA methylation and pattern of c-myc, c-Ha-ras oncogene methylation in human gastric carcinogenesis. Fang J, et al. **Chin Med J (Engl)** 1996 Oct;109(10):787-91

Semiautomated sequence-specific mutation detection of the human K-ras oncogene using "cold" SSCP analysis. Hruszkewycz AM, et al. **Clin Chem** 1996 Oct;42(10):1717-9

Rapid and large-scale method to detect K-ras gene mutations in tumor samples. Lopez-Crapez E, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):936-42

Expression of ras proto-oncogenes: regulation and implications in the development of human tumors. Zachos G, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):65-75 (92 ref.)

Ras oncogene mutations in thyroid tumors: polymerase chain reaction-restriction-fragment-length polymorphism analysis from paraffin-embedded tissues. Capella G, et al. **Diagn Mol Pathol** 1996 Mar;5(1):45-52

Clinicopathologic analysis of k-ras, p53, and ERBB-2 gene alterations in pulmonary adenocarcinoma. Visscher DW, et al. **Diagn Mol Pathol** 1997 Feb;6(1):64-9

Ras proteins mediate induction of uncoupling protein, IGF-I, and IGF-I receptor in rat fetal brown adipocyte cell lines. Porras A, et al. **DNA Cell Biol** 1996 Nov;15(11):921-8

The inducible lactose operator-repressor system is functional in the whole animal. Wu JD, et al. **DNA Cell Biol** 1997 Jan;16(1):17-22

Endosomal fractions from viral K-ras-transformed MDCK cells reveal transformation specific changes on two-dimensional gel maps. Huber LA, et al. **Electrophoresis** 1996 Nov;17(11):1734-40

Alterations in the K-ras and p53 genes in rat lung tumors. Belinsky SA, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:901-6

Polymorphisms of H-ras-1 and p53 in breast cancer and lung cancer: a meta-analysis. Weston A, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:919-26

Ras-dependent and Ras-independent activation pathways for the stress-activated-protein-kinase cascade. Kawasaki H, et al. **Eur J Biochem** 1996 Oct 15;241(2):315-21

Response to radiotherapy of human uterine cervix carcinoma is not correlated with rearrangements of the Ha-ras-1 and/or c-myc genes. Polischouk AG, et al. **Eur J Cancer** 1997 May;33(6):942-9

Detection of K-ras mutations in cancerous lesions of human endometrium. Semczuk A, et al. **Eur J Gynaecol Oncol** 1997;18(1):80-3

Adhesion-dependent control of cyclin E/cdk2 activity and cell cycle progression in normal cells but not in Ha-ras transformed NRK cells. Carstens CP, et al. **Exp Cell Res** 1996 Nov 25;229(1):86-92

Cylindrical substratum induces different patterns of actin microfilament bundles in nontransformed and in ras-transformed epitheliocytes. Levina EM, et al. **Exp Cell Res** 1996 Nov 25;229(1):159-65

NADH-mediated DNA damage induced by a new coenzyme, pyrroloquinoline quinone, in the presence of copper(II) ion. Hiraku Y, et al. **FEBS Lett** 1996 Sep 16; 393(2-3):317-20

Increased glucose transport in ras-transformed fibroblasts: a possible role for N-glycosylation of GLUT1. Onetti R, et al. **FEBS Lett** 1997 May 5;407(3):267-70

A domain containing the Cdc42/Rac interactive binding (CRIB) region of p65PAK inhibits transcriptional activation and cell transformation mediated by the Ras-Rac pathway. Osada S, et al. **FEBS Lett** 1997 Mar 10; 404(2-3):227-33

K-ras mutations are found in DNA extracted from the plasma of patients with colorectal cancer. Anker P, et al. **Gastroenterology** 1997 Apr;112(4):1114-20

Ki-ras mutations in stool and whole-gut lavage fluid [letter; comment] Potter MA, et al. **Gastroenterology** 1997 Apr; 112(4):1427-8. Comment on: Gastroenterology 1996 May;110(5):1346-53.

Optimization of restriction fragment length polymorphism and single strand conformation polymorphism analysis for the detection of point mutations of ras oncogenes in paraffin-embedded tissues. Weise B, et al. **Gen Diagn Pathol** 1996 Jun;142(1):45-52

The turkey c-rap1A proto-oncogene is expressed via two distinct promoters. Chajut A, et al. **Gene** 1996 Oct 24; 177(1-2):7-10

Growth factor ligands of tyrosine kinase receptors activate the Rous sarcoma virus promoter by a Ras- and Raf-dependent mechanism. Cosgaya JM, et al. **Gene** 1997 Apr 1;188(2):291-3

Tissue-specific expression of the K-ras allele from the A/J parent in (A/J x TSG-p53) F1 mice. Matzinger SA, et al. **Gene** 1997 Apr 1;188(2):261-9

Anti-tumor immunity is involved in the thymidine kinase-mediated killing of tumors induced by activated Ki-ras(G12V). Pavlovic J, et al. **Gene Ther** 1996 Jul; 3(7):635-43

Analysis of loss of heterozygosity and KRAS2 mutations in ovarian neoplasms: clinicopathological correlations. Chenevix-Trench G, et al. **Genes Chromosomes Cancer** 1997 Feb;18(2):75-83

Ras1-mediated modulation of Drosophila homeotic function in cell and segment identity. Boube M, et al. **Genetics** 1997 Jun;146(2):619-28

Differential activity of Ras1 during patterning of the Drosophila dorsoventral axis. Schnorr JD, et al. **Genetics** 1996 Dec;144(4):1545-57

Identification of new members of the Gas2 and Ras families in the 22q12 chromosome region. Zucman-Rossi J, et al. **Genomics** 1996 Dec 15;38(3):247-54

VEGF mRNA is stabilized by ras and tyrosine kinase oncogenes, as well as by UV radiation--evidence for divergent stabilization pathways. White FC, et al. **Growth Factors** 1997;14(2-3):199-212

Modification of mutant K-ras gene expression in non-small cell lung cancer (NSCLC). Roth JA. **Hum Gene Ther** 1996 May 1;7(7):875-89

Ethnic difference in the pattern of K-ras oncogene mutations in human colorectal cancers. Hayashi N, et al. **Hum Mutat** 1996;8(3):258-61

Effect of K-ras mutation on morphogenesis of colorectal adenomas and early cancers: relationship to distribution of proliferating cells. Kobayashi M, et al. **Hum Pathol** 1996 Oct;27(10):1042-9

Primary mediastinal and testicular seminomas: a comparison of K-ras-2 gene sequence and p53 immunoperoxidase analysis of 26 cases. Przygodzki RM, et al. **Hum Pathol** 1996 Sep;27(9):975-9

Human beta2-adrenergic receptor/GS alpha fusion protein, expressed in 2 ras-dependent murine carcinoma cell lines, prevents tumor growth in syngeneic mice. Bertin B, et al. **Int J Cancer** 1997 Jun 11;71(6):1029-34

5-methylcytosine is present in the 5' flanking region of Ha-ras in mouse liver and increases with ageing. Counts JL, et al. **Int J Cancer** 1997 Jul 29;72(3):491-7

K-ras and p53 mutations in hereditary non-polyposis colorectal cancers. Losi L, et al. **Int J Cancer** 1997 Feb 20;74(1):94-6

A one-step DGGE scanning method for detection of mutations in the K-, N-, and H-ras oncogenes: mutations at codons 12, 13 and 61 are rare in B-cell non-Hodgkin's lymphoma. Nedergaard T, et al. **Int J Cancer** 1997 May 2;71(3):364-9

Role of the Ha-ras gene in the malignant transformation of rat liver oval cells. Steinberg P, et al. **Int J Cancer** 1997 May 16;71(4):680-5

A BALB/c 3T3-transformed cell line suitable for transfection assay of metastasis-inducing genes. Tatsuka M, et al. **Int J Cancer** 1997 Mar 28;71(1):88-93

Prevalence and clinical significance of combined K-ras mutation and p53 aberration in pancreatic adenocarcinoma. Dergham ST, et al. **Int J Pancreatol** 1997 Apr;21(2):127-43

Clinicopathological significance of Ki-ras point mutation and p21 expression in benign and malignant exocrine tumors of the human pancreas. Song MM, et al. **Int J Pancreatol** 1996 Oct;20(2):85-93

Screening of H-ras gene point mutations in 50 cases of bladder carcinoma. Saito S, et al. **Int J Urol** 1997 Mar; 4(2):178-85

Biochemical characterization of a novel KRAS insertion mutation from a human leukemia. Bollag G, et al. **J Biol Chem** 1996 Dec 20;271(51):32491-4

Histone H1b phosphorylation is dependent upon ongoing transcription and replication in normal and ras-transformed mouse fibroblasts. Chadee DN, et al. **J Biol Chem** 1997 Mar 28;272(13):8113-6

The Ras-related protein Rheb is farnesylated and antagonizes Ras signaling and transformation. Clark GJ, et al. **J Biol Chem** 1997 Apr 18;272(16):10608-15

Transformation by ras suppresses expression of the neurotrophic growth factor pleiotrophin. Corbley MJ. **J Biol Chem** 1997 Sep 26;272(39):24696-702

The v-Ki-Ras oncogene alters cAMP nuclear signaling by regulating the location and the expression of cAMP-dependent protein kinase IIbeta. Feliciello A, et al. **J Biol Chem** 1996 Oct 11;271(41):25350-9

cis-Active Ras G2-like sequence implicated in the heterotropic activation of the deoxyadenosine kinase of Lactobacillus acidophilus R-26. Guo S, et al. **J Biol Chem** 1997 Mar 14;272(11):6890-7

Induction of cytosolic phospholipase A2 by oncogenic Ras in human non-small cell lung cancer. Heasley LE, et al. **J Biol Chem** 1997 Jun 6;272(23):14501-4

RalGDS functions in Ras- and cAMP-mediated growth stimulation. Miller MJ, et al. **J Biol Chem** 1997 Feb 28; 272(9):5600-5

Dependence of activated Galpha12-induced G1 to S phase cell cycle progression on both Ras/mitogen-activated protein kinase and Ras/Rac1/Jun N-terminal kinase cascades in NIH3T3 fibroblasts. Mitsui H, et al. **J Biol Chem** 1997 Feb 21;272(8):4904-10

Specific hammerhead ribozyme-mediated cleavage of mutant N-ras mRNA in vitro and ex vivo. Oligoribonucleotides as therapeutic agents. Scherr M, et al. **J Biol Chem** 1997 May 30;272(22):14304-13

Box 3-independent signaling mechanisms are involved in leukemia inhibitory factor receptor alpha- and gp130-mediated stimulation of mitogen-activated protein kinase. Evidence for participation of multiple signaling pathways which converge at Ras. Schiemann WP, et al. **J Biol Chem** 1997 Jun 27;272(26):16631-6

Characterization of downstream Ras signals that induce alternative protease-dependent invasive phenotypes. Silberman S, et al. **J Biol Chem** 1997 Feb 28;272(9):5927-35

Extracellular ATP induces anchorage-independent expression of cyclin A and rescues the transformed phenotype of a ras-resistant mutant cell line. Yang JJ, et al. **J Biol Chem** 1997 Jan 31;272(5):3103-8

A ribozyme specifically suppresses transformation and tumorigenicity of Ha-ras-oncogene-transformed NIH/3T3 cell lines. Chang MY, et al. **J Cancer Res Clin Oncol** 1997; 123(2):91-9

Apoptosis of human BEL-7402 hepatocellular carcinoma cells released by antisense H-ras DNA--in vitro and in vivo studies. Liao Y, et al. **J Cancer Res Clin Oncol** 1997; 123(1):25-33

Normal and transforming Ras are differently regulated for posttranslational modifications. Yamada-Okabe T, et al. **J Cell Biochem** 1996 May;61(2):172-81

K-ras mutation in sputum of patients with or without lung cancer. Ronai Z, et al. **J Cell Biochem Suppl** 1996;25:172-6

Bi-transgenic mice reveal that K-rasVal12 augments a p53-independent apoptosis when small intestinal villus enterocytes reenter the cell cycle. Coopersmith CM, et al. **J Cell Biol** 1997 Jul 14;138(1):167-79

Restored expression of transforming growth factor beta type II receptor in k-ras-transformed thyroid cells, TGF beta-resistant, reverts their malignant phenotype. Coppa A, et al. **J Cell Physiol** 1997 Aug;172(2):200-8

A simple method to reveal possible ras mutations in DNA of urinary sediment cells. Cristaudo A, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2-3):201-4

Mutant N-RAS induces erythroid lineage dysplasia in human CD34+ cells. Darley RL, et al. **J Exp Med** 1997 Apr 7; 185(7):1337-47

Detection of k-ras point mutations in codons 12 and 13 in non-small cell lung cancers. Hsu NY, et al. **J Formos Med Assoc** 1996 Oct;95(10):741-5

Detection of c-Ki-ras oncogene mutation in gastric adenomas with formalin-fixed, paraffin-embedded biopsy materials. Tsuchiya C, et al. **J Gastroenterol** 1997 Feb; 32(1):28-33

Studies on the hypomethylation of c-myc, c-Ha-ras oncogenes and histopathological changes in human gastric carcinoma. Fang JY, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1079-82

Susceptibility of experimental autoimmune hepatitis in transgenic mice overexpressing the c-H-ras gene. Tsunematsu S, et al. **J Gastroenterol Hepatol** 1997 Apr; 12(4):319-24

Detection of colorectal cancer K-ras mutations using a simplified oligonucleotide ligation assay. Rothschild CB, et al. **J Immunol Methods** 1997 Aug 7;206(1-2):11-9

Leukemic transformation in three patients with polycythemia vera. Analysis of the clinicopathological features and N-ras gene mutation. Sakai H, et al. **J Med** 1996;27(3-4):183-91

Solution structure as a function of pH of two central mismatches, C . T and C . C, in the 29 to 39 K-ras gene sequence, by nuclear magnetic resonance and molecular dynamics. Boulard Y, et al. **J Mol Biol** 1997 May 2; 268(2):331-47

Transfection with c-Ha rasEJ modulates alpha-actin and alpha 1B-adrenoceptor gene expression in vascular smooth muscle cells. Lundberg MS, et al. **J Mol Cell Cardiol** 1997

Jun;29(6):1695–702
Molecular analysis at the Harvey Ras-1 gene in patients with long QT syndrome. Schulze-Bahr E, et al. **J Mol Med** 1995 Nov;73(11):565–9
The conceptual and practical impact of Ki-ras mutation in colorectal neoplasia [editorial] Arends JW, et al. **J Pathol** 1996 Dec;180(4):355–6
Ki-ras mutations in adenomas: a characteristic of cancer-bearing colorectal mucosa. Morris RG, et al. **J Pathol** 1996 Dec;180(4):357–63
Analysis of single-strand conformation polymorphisms by capillary electrophoresis with laser induced fluorescence detection. Arakawa H, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1537–44
Effects of melatonin on mammary gland lesions in transgenic mice overexpressing N-ras proto-oncogene. Mediavilla MD, et al. **J Pineal Res** 1997 Mar;22(2):86–94
Activation of Raf-1 in human pancreatic adenocarcinoma. Berger DH, et al. **J Surg Res** 1997 Apr;69(1):199–204
Rare occurrence of ras and p53 gene mutations in mouse stomach tumors induced by N-methyl-N-nitrosourea. Furihata C, et al. **Jpn J Cancer Res** 1997 Apr;88(4):363–8
Glucocorticoid and estrogen receptors have elevated activity in human endometrial and ovarian tumors as compared to the adjacent normal tissues and recognize sequence elements of the H-ras proto-oncogene. Zachos G, et al. **Jpn J Cancer Res** 1996 Sep;87(9):916–22
Detection of K-ras point mutations in mesenteric venous blood from colorectal cancer patients by enriched polymerase chain reaction and single-strand conformation polymorphism analysis. Fujita S, et al. **Jpn J Clin Oncol** 1996 Dec;26(6):417–21
Rapid carcinogenicity testing system with transgenic mice harboring human prototype c-HRAS gene. Yamamoto S, et al. **Lab Anim Sci** 1997 Apr;47(2):121–6
Sporadic and Thorotrast-induced angiosarcomas of the liver manifest frequent and multiple point mutations in K-ras-2. Przygodzki RM, et al. **Lab Invest** 1997 Jan;76(1):153–9
N-ras gene point mutations in Brazilian acute myelogenous leukemia patients correlate with a poor prognosis. De Melo MB, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):309–17
RAS gene mutations in Chinese leukaemia patients and members of a family with high incidence of leukaemia. He LZ, et al. **Leuk Res** 1996 Nov-Dec;20(11–12):901–3
Oncogenic RAS genes impair erythroid differentiation of erythroleukaemia cells. Zaker F, et al. **Leuk Res** 1997 Jul; 21(7):635–40
Genetic aberrations in the development and subsequent progression of myelodysplastic syndrome. Misawa S, et al. **Leukemia** 1997 Apr;11 Suppl 3:533–5
No concomitant occurrence of the N-ras and p53 gene mutations in myelodysplastic syndromes. Mitani K, et al. **Leukemia** 1997 Jun;11(6):863–5
The specific N-ras mutation in rat 7,12-dimethylbenz[a]anthracene (DMBA)-induced leukemia. Osaka M, et al. **Leukemia** 1997 Apr;11 Suppl 3:393–5
Possible involvement of MSX-2 homeoprotein in v-ras-induced transformation. Takahashi C, et al. **Leukemia** 1997 Apr;11 Suppl 3:340–3
Histopathological features of the Harderian glands in transgenic mice carrying MMTV/N-ras protooncogene. Coto-Montes A, et al. **Microsc Res Tech** 1997 Aug 1; 38(3):311–4
ras and p53 genes in male breast cancer. Dawson PJ, et al. **Mod Pathol** 1996 Apr;9(4):367–70
Structure of pp32, an acidic nuclear protein which inhibits oncogene-induced formation of transformed foci. Chen TH, et al. **Mol Biol Cell** 1996 Dec;7(12):2045–56
Tropomyosin-2 cDNA lacking the 3' untranslated region riboregulator induces growth inhibition of v-Ki-ras-transformed fibroblasts. Janssen RA, et al. **Mol Biol Cell** 1997 May;8(5):897–908
Kinetics of wound-induced v-Ha-ras transgene expression and papilloma development in transgenic Tg.AC mice. Cannon RE, et al. **Mol Carcinog** 1997 Sep;20(1):108–14
Assessment of mutations in Ki-ras and p53 in colon cancers from azoxymethane- and dimethylhydrazine-treated rats. Erdman SH, et al. **Mol Carcinog** 1997 Jun;19(2):137–44
ras downregulation of protein kinase C mRNA in C3H 10T1/2 fibroblasts. Fernandes ER, et al. **Mol Carcinog** 1996 Sep;17(1):23–34
Chromosomal and genetic alterations of 7,12-dimethylbenz[a]anthracene-induced melanoma from TP-ras transgenic mice. Gause PR, et al. **Mol Carcinog** 1997 Sep;20(1):78–87
Frequency of Ha-ras-1 gene mutations inversely correlated with furan dose in mouse liver tumors. Johansson E, et al. **Mol Carcinog** 1997 Apr;18(4):199–205
Influence of the glucocorticoid receptor on c-fos inducibility in activated ras-containing mouse lung cells. Johnson TA, et al. **Mol Carcinog** 1996 Oct;17(2):70–7
Evidence that mirex promotes a unique population of epidermal cells that cannot be distinguished by their mutant Ha-ras genotype. Kim TW, et al. **Mol Carcinog** 1997 Sep; 20(1):115–24
Incidence of p53 and Ha-ras gene mutations in chemically induced rat mammary carcinomas. Kito K, et al. **Mol Carcinog** 1996 Oct;17(2):78–83
Resistance to apoptosis induced by alkylating agents in v-Ha-ras-transformed cells due to defect in p53 function. Kuo ML, et al. **Mol Carcinog** 1997 Apr;18(4):221–31
Ha-ras oncogene-induced transcription of human papillomavirus type 18 E6 and E7 oncogenes. Medina-Martínez O, et al. **Mol Carcinog** 1997 Jun; 19(2):83–90
Loss of heterozygosity at the N-ras locus in 7,12-dimethylbenz[a] anthracene-induced rat leukemia. Osaka M, et al. **Mol Carcinog** 1997 Apr;18(4):206–12
Downregulation of aryl hydrocarbon receptor function and cytochrome P450 1A1 induction by expression of Ha-ras oncogenes. Reiners JJ Jr, et al. **Mol Carcinog** 1997 Jun; 19(2):91–100
Decreases in phorbol ester-induced papilloma development in v-Ha-ras transgenic TG.AC mice during reduced gene dosage of bcl-2. Trempus CS, et al. **Mol Carcinog** 1997 Sep;20(1):68–77
Characterization of mutant HA-ras gene expression in transformed murine keratinocyte lines grown under in vitro and in vivo conditions. Volpe JP, et al. **Mol Carcinog** 1996 Dec;17(4):202–6
Consistent allelic loss on mouse chromosome 7 distal to tyrosinase in 4-nitroquinoline-1-oxide-induced oral cavity tumors with loss of heterozygosity at Ha-ras-1. Yuan B, et al. **Mol Carcinog** 1997 May;19(1):8–16
TC21 causes transformation by Raf-independent signaling pathways. Graham SM, et al. **Mol Cell Biol** 1996 Nov; 16(11):6132–40
Platelet-derived growth factor-dependent activation of phosphatidylinositol 3-kinase is regulated by receptor binding of SH2-domain-containing proteins which influence Ras activity. Klinghoffer RA, et al. **Mol Cell Biol** 1996 Oct;16(10):5905–14
Increased expression of the Ras suppressor Rsu-1 enhances Erk-2 activation and inhibits Jun kinase activation. Masuelli L, et al. **Mol Cell Biol** 1996 Oct;16(10):5466–76
RREB-1, a novel zinc finger protein, is involved in the differentiation response to Ras in human medullary thyroid carcinomas. Thiagalingam A, et al. **Mol Cell Biol** 1996 Oct; 16(10):5335–45
Sp1 binding plays a critical role in Erb-B2- and v-ras-mediated downregulation of alpha2-integrin expression in human mammary epithelial cells. Ye J, et al. **Mol Cell Biol** 1996 Nov;16(11):6178–89
Transcriptional activation of the human growth hormone gene by ras oncogene. Petersenn S, et al. **Mol Cell Endocrinol** 1997 Apr 25;129(1):47–54
Detection of K-ras point mutation by enriched PCR-colorimetric plate assay. Santiago FS, et al. **Mol Cell Probes** 1997 Feb;11(1):33–8
Molecular cloning and sequence analysis of a putative ras gene of the phytopathogenic fungus Botryotinia fuckeliana. Park SY, et al. **Mol Cells** 1997 Apr 30;7(2):300–4
Adenovirus-mediated gene transfer of dominant negative ras(asn17) in 3T3L1 adipocytes does not alter insulin-stimulated P13-kinase activity or glucose transport. Gnudi L, et al. **Mol Endocrinol** 1997 Jan;11(1):67–76
Stimulation of the P-450 side chain cleavage enzyme (CYP11A1) promoter through ras- and Ets-2-signaling pathways. Pestell RG, et al. **Mol Endocrinol** 1996 Sep; 10(9):1084–94
Activation in vitro of somatostatin receptor subtypes 2, 3, or 4 stimulates protein tyrosine phosphatase activity in membranes from transfected Ras-transformed NIH 3T3 cells: coexpression with catalytically inactive SHP-2 blocks responsiveness. Reardon DB, et al. **Mol Endocrinol** 1997 Jul;11(8):1062–9
Cloning, sequencing, and embryonic expression of an N-ras proto-oncogene isolated from an enriched zebrafish (Danio rerio) cDNA library. Cheng R, et al. **Mol Mar Biol Biotechnol** 1997 Mar;6(1):40–7
Neoplastic transformation of mouse C3H10T1/2 cells following exposure to neutrons does not involve mutation of ras gene as analyzed by SSCP and cycle sequencing. Freyer GA, et al. **Mutat Res** 1996 Oct 25;357(1–2):237–44
Mutations of the p53 tumor suppressor gene and ras oncogenes in aflatoxin hepatocarcinogenesis. Shen HM, et al. **Mutat Res** 1996 Oct;366(1):23–44 (167 ref.)
UV-induced mutations affecting codon 12 of the K-ras gene are suppressed by interferon-alpha in human RSa cells. Suzuki N, et al. **Mutat Res** 1997 Feb 3;373(2):251–6
The induction of proliferative vascular smooth muscle cell phenotypes by benzo[a]pyrene does not involve mutational activation of ras genes. Zhang Y, et al. **Mutat Res** 1997 Feb 3;373(2):285–92
Expression of N-ras gene in gliomas. Tsurushima H, et al. **Neurol Med Chir (Tokyo)** 1996 Oct;36(10):704–8
Ca(2+)-dependent routes to Ras: mechanisms for neuronal survival, differentiation, and plasticity? Finkbeiner S, et al. **Neuron** 1996 Feb;16(2):233–6 (16 ref.)
Down-regulation of NF-kappaB activity and NF-kappaB p65 subunit expression by ras and polyoma middle T oncogenes in human colonic Caco-2 cells. Cadoret A, et al. **Oncogene** 1997 Apr 3;14(13):1589–600
Novel, activated RAS mutations alter protein-protein interactions. Dalley BK, et al. **Oncogene** 1996 Sep 19; 13(6):1209–20
Involvement of SHC, GRB2, SOS and RAS in prolactin signal transduction in mammary epithelial cells. Das R, et al. **Oncogene** 1996 Sep 19;13(6):1139–45
Myb binding sites within the N-ras promoter repress transcription. Ganter B, et al. **Oncogene** 1997 Jul 10; 15(2):193–202
The growth-inhibitory function of p53 is separable from transactivation, apoptosis and suppression of transformation by E1a and Ras. Hansen RS, et al. **Oncogene** 1996 Sep 5;13(5):995–1007
Transcriptional activation of the matrix metalloproteinase-9 gene in an H-ras and v-myc transformed rat embryo cell line. Himelstein BP, et al. **Oncogene** 1997 Apr 24; 14(16):1995–8
K-ras is essential for the development of the mouse embryo. Koera K, et al. **Oncogene** 1997 Sep 4;15(10):1151–9
Activated N-ras oncogene and N-ras proto-oncogene act through the same pathway for in vivo tumorigenesis. Mangues R, et al. **Oncogene** 1996 Sep 5;13(5):1053–63
Increased concentrations of phosphatidate, diacylglycerol and ceramide in ras- and tyrosine kinase (fps)-transformed fibroblasts. Martin A, et al. **Oncogene** 1997 Apr 3; 14(13):1571–80
Transcriptional down-regulation of myogenin expression is associated with v-ras-induced block of differentiation in unestablished quail muscle cells. Russo S, et al. **Oncogene** 1997 Jan 9;14(1):63–73
A novel human ERK phosphatase regulates H-ras and v-raf signal transduction. Shin DY, et al. **Oncogene** 1997 Jun 5;14(22):2633–9
Mob-1, a Ras target gene, is overexpressed in colorectal cancer. Zhang R, et al. **Oncogene** 1997 Apr 3; 14(13):1607–10
Transgenic mice carrying the human KRAS oncogene under the control of a thyroglobulin promoter: KRAS expression in thyroids analyzed by in situ hybridization. Chiappetta G, et al. **Oncol Res** 1996;8(2):85–93
Peritoneal washing cytology combined with immunocytochemical staining and detecting mutant K-ras in pancreatic cancer: comparison of the sensitivity and availability of various methods. Nomoto S, et al. **Pancreas** 1997 Mar;14(2):126–32
Ki-ras and p53 mutations in pancreatic ductal adenocarcinoma. Rall CJ, et al. **Pancreas** 1996 Jan; 12(1):10–7
Detection of K-ras point mutations at codon 12 in pure pancreatic juice for the diagnosis of pancreatic cancer by PCR-RFLP analysis. Watanabe H, et al. **Pancreas** 1996 Jan;12(1):18–24
The role of ras GTPase activating protein in human tumorigenesis. Friedman E. **Pathobiology** 1995;63(6):348–50 (21 ref.)
APC, K-ras codon 12 mutations and p53 gene expression in carcinoma and adenoma of the gall-bladder suggest two genetic pathways in gall-bladder carcinogenesis. Itoi T, et al. **Pathol Int** 1996 May;46(5):333–40
Simplified rapid non-radioactive PCR-SSCP method applied to K-ras mutation analysis [letter] Yamashita K, et al. **Pathol Int** 1996 Oct;46(10):801–4
Detection of ras oncogene point mutations and simultaneous proliferative fraction estimation in gallbladder cancer. Saetta A, et al. **Pathol Res Pract** 1996 Jun;192(6):532–40
Dome formation induced by v-H-ras oncogene in a human choriocarcinoma cell line. Watari H, et al. **Placenta** 1996 Sep;17(7):443–9
Ribonucleotide reductase R2 component is a novel malignancy determinant that cooperates with activated oncogenes to determine transformation and malignant potential. Fan H, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14036–40
Dominant transformation by mutated human ras genes in vitro requires more than 100 times higher expression than is observed in cancers. Hua VY, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9614–9
Independence of metastatic ability and extravasation: metastatic ras-transformed and control fibroblasts extravasate equally well. Koop S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11080–4
Mouse mammary tumor virus/v-Ha-ras transgene-induced mammary tumors exhibit strain-specific allelic loss on mouse chromosome 4. Radany EH, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8664–9
Peptide vaccination can lead to enhanced tumor growth through specific T-cell tolerance induction. Toes RE, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7855–60
Bradykinin B2 receptors and signal transduction analyzed in NG108-15 neuroblastoma x glioma hybrid cells, B2 receptor-transformed CHO cells and ras-transformed NIH/3T3 fibroblasts. Higashida H, et al. **Prog Brain Res** 1996;113:215–30 (82 ref.)
Immortalized and tumorigenic adult human prostatic epithelial cell lines: characteristics and applications. Part 3. Oncogenes, suppressor genes, and applications. Webber MM, et al. **Prostate** 1997 Feb 1;30(2):136–42 (70 ref.)
The influence of the oncogenes NRAS and MYC on the radiation sensitivity of cells of a human melanoma cell line. Pomp J, et al. **Radiat Res** 1996 Oct;146(4):374–81
Ha-ras in normal and tumoral tissues: structure, function and regulation. Solanas M, et al. **Rev Esp Fisiol** 1996 Sep; 52(3):173–92 (128 ref.)
K-ras mutations and prognosis in large-bowel carcinomas. Andersen SN, et al. **Scand J Gastroenterol** 1997 Jan; 32(1):62–9
Mitogenic signaling mediated by oxidants in Ras-transformed fibroblasts [see comments] Irani K, et al. **Science** 1997 Mar 14;275(5306):1649–52. Comment in: Science 1997 Mar 14;275(5306):1567–8.
Ras and myelodysplasia: lessons from the last decade. Parker J, et al. **Semin Hematol** 1996 Jul;33(3):206–24 (205 ref.)

Effect of a dominant negative ras on myocardial hypertrophy by using adenoviral-mediated gene transfer. Pracyk JB, et al. **Surgery** 1997 Aug;122(2):404–10; discussion 410–1

Analysis of K-ras oncogene mutations in chronic pancreatitis with ductal hyperplasia. Rivera JA, et al. **Surgery** 1997 Jan;121(1):42–9

Prevalence of activating ras mutations in morphologically characterized thyroid nodules. Ezzat S, et al. **Thyroid** 1996 Oct;6(5):409–16

Analysis of c-Ki-ras oncogene and p53 immunocytochemistry in the gallbladder mucosa of an experimental dog model of anomalous arrangement of the pancreaticobiliary ducts. Sasaki K, et al. **Tokushima J Exp Med** 1996 Dec;43(3–4):101–6

Introduction of wild-type p53 gene downregulates the expression of H-ras gene and suppresses the growth of bladder cancer cells. Li M, et al. **Urol Res** 1995; 23(5):311–314

A PCR-RFLP method for the detection of activated H-ras oncogene with a point mutation at codon 12 and 61. Hong SJ, et al. **Yonsei Med J** 1996 Dec;37(6):371–9

[Detection of K-ras oncogene activation in human lung cancer and its possible clinical application] Zhang G, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):282–4, 317 (Eng. Abstr.) **(Chi)**

[Quantitative analysis of oncogene ras P21 expression in oral precancerous lesion and squamous cell carcinoma] Liu X, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):225–8 **(Chi)**

[Detection of the expression of P21, P53, P185 proteins and the mutation of ras, p53 genes in colorectal adenoma and carcinoma] Liang Z, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1995 Dec;24(6):352–5 (Eng. Abstr.) **(Chi)**

[Detection and clinical pathological significance of the expression of P21, P185, p53 proteins and mutation of ras, p53 genes in transitional cell carcinoma of the bladder] Yu D, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):202–5 (Eng. Abstr.) **(Chi)**

[Ribozyme targeted the point-mutation of activated oncogene inhibits its expression in vivo] Liu G, et al. **I Chuan Hsueh Pao** 1996;23(6):477–85 (Eng. Abstr.) **(Chi)**

[Studies on inhibition of activated oncogene expression by antisense RNA] Yang Q, et al. **I Chuan Hsueh Pao** 1996; 23(3):243–8 (Eng. Abstr.) **(Chi)**

[Activation of Rap1, antagonist to ras, by Crk-C3G] Hattori S, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1414–21 (25 ref.) (Eng. Abstr.) **(Jpn)**

[Findings of genetic changes in small intestinal carcinomas] Hirai A, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:332–6 (Eng. Abstr.) **(Jpn)**

[Inhibition of RAS-transformation by SCH51344] Kumar CC. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1503–11 (35 ref.) (Eng. Abstr.) **(Jpn)**

[Cell signaling and CDDP resistance] Masumoto N, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(4):424–30 (36 ref.) (Eng. Abstr.) **(Jpn)**

[Molecular biological diagnosis of non-small-cell carcinoma of the lung and its application to therapy] Sugio K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):403–5 **(Jpn)**

[Vaccinia virus recombinants carrying ras oncogene induce neoplastic cell transformation] Grinenko NF, et al. **Dokl Akad Nauk** 1996 Sep;350(3):427–30 **(Rus)**

[Transcription factor p91/stat1alpha is constitutively activated and localizes in the nucleus of rat embryonal fibroblasts transformed with E1A and Ha-ras oncogenes] Pospelov VA, et al. **Dokl Akad Nauk** 1996 May; 348(2):261–4 **(Rus)**

[Restriction polymorphism of the proto-oncogene c-Ha-ras-1 in patients with multiple primary malignant neoplasms and non-small-cell lung cancer] Gaspar'ian AV, et al. **Genetika** 1997 Jan;33(1):96–100 (Eng. Abstr.) **(Rus)**

[Characteristics of DNA-binding activity of SRF factor in cells, transformed by the Ha-ras oncogene] Pospelov VA, et al. **Mol Biol (Mosk)** 1996 Jul-Aug;30(4):893–900 **(Rus)**

DRUG EFFECTS

In vitro and in vivo activity of antisense inhibitors of ras: potential for clinical development. Cowsert LM. **Anticancer Drug Des** 1997 Jul;12(5):359–71 (59 ref.)

The induction of proliferative vascular smooth muscle cell phenotypes by benzo(a)pyrene is characterized by up-regulation of inositol phospholipid metabolism and c-Ha-ras gene expression. Ramos KS, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):213–22

Lovastatin inhibits T-cell antigen receptor signaling independent of its effects on ras. Goldman F, et al. **Blood** 1996 Dec 15;88(12):4611–9

Induction of mammary cancer and lymphoma by multiple, low oral doses of 7,12-dimethylbenz[a]anthracene in SENCAR mice. Qing WG, et al. **Carcinogenesis** 1997 Mar; 18(3):553–9

Histogenesis and the role of p53 and K-ras mutations in hepatocarcinogenesis by glyceryl trinitrate (nitroglycerin) in male F344 rats. Tamano S, et al. **Carcinogenesis** 1996 Nov;17(11):2477–86

Growth inhibition of K-ras-expressing tumours by a new vinca alkaloid, conophylline, in nude mice. Umezawa K, et al. **Drugs Exp Clin Res** 1996;22(2):35–40

Antioxidants as well as oxidants activate c-fos via Ras-dependent activation of extracellular-signal-regulated kinase 2 and Elk-1. Müller JM, et al. **Eur J Biochem** 1997 Feb 15;244(1):45–52

The inhibitory effect of vitamin E on K-ras mutation at an early stage of lung carcinogenesis in mice. Yano T, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):99–102

A new anthracycline antibiotic, IT-62-B, converts the morphology of ras-transformed cells back to normal: taxonomy, fermentation, isolation, structure elucidation and biological characterization. Kawauchi T, et al. **J Antibiot (Tokyo)** 1997 Apr;50(4):297–303

Ki-ras and p53 mutations are early and late events, respectively, in urethane-induced pulmonary carcinogenesis in A/J mice. Horio Y, et al. **Mol Carcinog** 1996 Dec;17(4):217–23

Mechanism of bracken fern carcinogenesis: evidence for H-ras activation via initial adenine alkylation by ptaquiloside. Prakash AS, et al. **Nat Toxins** 1996;4(5):221–7

Geranylgeraniol potentiates lovastatin inhibition of oncogenic H-Ras processing and signaling while preventing cytotoxicity. McGuire TF, et al. **Oncogene** 1997 Jan 23;14(3):305–12

[Carcinogenesis and ontogenesis: chief trends and results of investigations] Anisimov VN. **Vopr Onkol** 1997;43(1):88–94 (35 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

Ki-ras mutations and the carcinoembryonic antigen level in fine needle aspirates of the pancreas. Pinto MM, et al. **Acta Cytol** 1997 Mar-Apr;41(2):427–34 (26 ref.)

K-ras and p53 mutations in hamster pancreatic ductal adenocarcinomas and cell lines. Erill N, et al. **Am J Pathol** 1996 Oct;149(4):1333–9

Absence of K-ras mutations in the pancreatic parenchyma of patients with chronic pancreatitis. Hsiang D, et al. **Am J Surg** 1997 Sep;174(3):242–6

p53 and K-ras mutational genotyping in pulmonary carcinosarcoma, spindle cell carcinoma, and pulmonary blastoma: implications for histogenesis. Holst VA, et al. **Am J Surg Pathol** 1997 Jul;21(7):801–11

A nonradioactive, allele-specific polymerase chain reaction for reproducible detection of rare mutations in large amounts of genomic DNA: application to human k-ras. Chen ZY, et al. **Anal Biochem** 1997 Jan 1;244(1):191–4

Detection of K-ras oncogene mutations by polymerase chain reaction-based ligase chain reaction. Lehman TA, et al. **Anal Biochem** 1996 Aug 1;239(2):153–9

The detection of chemically initiated cells having the mutation of K-ras gene at an early stage of lung carcinogenesis in mice. Yano T, et al. **Anal Biochem** 1997 Jan 1;244(1):187–9

Codon 12 ras mutations in patients with myelodysplastic syndrome: incidence and prognostic value. Constantinidou M, et al. **Ann Hematol** 1997 Jan;74(1):11–4

Inhibition of the growth of 12V-ras-transformed rat fibroblasts by acetylsalicylic acid correlates with inhibition of NF-kappa B. Ljungdahl S, et al. **Anticancer Drugs** 1997 Jan;8(1):62–6

Concomitant point mutation of tumor suppressor gene p53 and oncogene c-N-ras in malignant neuroendocrine pancreatic tumor. Hrašćan R, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3761–6

K-ras gene mutation is a useful predictor of the survival of early stage colorectal cancers. Lee JC, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3839–44

H-ras oncogene point mutations in arthritic synovium. Roivainen A, et al. **Arthritis Rheum** 1997 Sep;40(9):1636–43

Instability at the H-ras minisatellite in human atherosclerotic plaques. Kiaris H, et al. **Atherosclerosis** 1996 Aug 23; 125(1):47–51

K-ras mutation and loss of heterozygosity of chromosome 17p and survival in colorectal cancer. Fung C, et al. **Aust N Z J Surg** 1997 May;67(5):239–44

Frequency and clinico-pathological associations of ras mutations in colorectal cancer in the Victorian population. Thomas RJ, et al. **Aust N Z J Surg** 1997 May;67(5):233–8

N-ras mutations in radiation-induced murine leukemic cells. Rithidech KN, et al. **Blood Cells Mol Dis** 1996;22(3):271–80

Dysregulation of autocrine TGF-beta isoform production and ligand responses in human tumour-derived and Ha-ras-transfected keratinocytes and fibroblasts. Fahey MS, et al. **Br J Cancer** 1996 Oct;74(7):1074–80

K-ras and p53 mutations are an independent unfavourable prognostic indicator in patients with non-small-cell lung cancer. Fukuyama Y, et al. **Br J Cancer** 1997;75(8):1125–30

Codon 12 Ki-ras mutation in non-small-cell lung cancer: comparative evaluation in tumoural and non-tumoural lung. Urban T, et al. **Br J Cancer** 1996 Oct;74(7):1051–5

p53 and K-ras status in duodenal adenomas in familial adenomatous polyposis. Kashiwagi H, et al. **Br J Surg** 1997 Jun;84(6):826–9

Laminin-binding proteins in EJ-ras-transformed fibroblasts. Chammas R, et al. **Braz J Med Biol Res** 1996 Sep; 29(9):1141–9

Transformation but not ras-transfection increases the expression of galectin-3 in human HOS cells. Hébert E, et al. **C R Acad Sci III** 1996 Oct;319(10):871–7

Correlation between K-ras gene mutation and prognosis of patients with nonsmall cell lung carcinoma. Cho JY, et al. **Cancer** 1997 Feb 1;79(3):462–7

K-ras mutations in mucinous ovarian tumors: a clinicopathologic and molecular study of 95 cases. Cuatrecasas M, et al. **Cancer** 1997 Apr 15;79(8):1581–6

Sampling method as a key factor in identifying K-ras oncogene mutations in preneoplastic colorectal lesions. Ronai Z, et al. **Cancer Detect Prev** 1995;19(6):512–7

Ki-ras mutation modifies the protective effect of dietary monounsaturated fat and calcium on sporadic colorectal cancer. Bautista D, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jan;6(1):57–61

Growth inhibitory effect of anti-K-ras adenovirus on lung cancer cells. Alemany R, et al. **Cancer Gene Ther** 1996 Sep-Oct;3(5):296–301

K-ras codon 12 and 61 point mutations in bromodeoxyuridine- and N-nitrosomethylurea-induced rat renal mesenchymal tumors. Calvert RJ, et al. **Cancer Lett** 1996 Dec 3;109(1–2):1–7

Activation of ras oncogenes during hepatocarcinogenesis induced by N-nitrosodiethylamine: possible involvement of PKC and GAP. Choudhury S, et al. **Cancer Lett** 1996 Dec 3;109(1–2):149–54

DNA alterations in sporadic colorectal tumors do not correlate with tumor staging diagnosed by the TNM system. Deuter R, et al. **Cancer Lett** 1996 Dec 3; 109(1–2):161–9

Multiple synchronous primaries of the gastrointestinal tract: a molecular case report. Herring JA, et al. **Cancer Lett** 1996 Dec 20;110(1–2):1–9

The activation of K-ras gene at an early stage of lung tumorigenesis in mice. Ichikawa T, et al. **Cancer Lett** 1996 Oct 22;107(2):165–70

p53 mutation and absence of mdm2 amplification and Ki-ras mutation in 4-hydroxyamino quinoline 1-oxide induced transplantable osteosarcomas in rats. Kido A, et al. **Cancer Lett** 1997 Jan 15;112(1):5–10

Investigation of c-myc and K-ras amplification in renal clear cell adenocarcinoma. Kozma L, et al. **Cancer Lett** 1997 Jan 1;111(1–2):127–31

Induction of invasive squamous cell carcinomas in the forestomach of (C3H x MSM)F1, MSM, and C3H mice by N-methyl-N-nitrosourea and mutational analysis of the H-ras and p53 genes. Masui T, et al. **Cancer Lett** 1997 Jan 1;111(1–2):97–104

Phytohemagglutinin-L (PHA-L) lectin surface binding of N-linked beta 1-6 carbohydrate and its relationship to activated mutant ras in human pancreatic cancer cell lines. Schwarz RE, et al. **Cancer Lett** 1996 Oct 22;107(2):285–91

Transfection of C3H10T1/2 cells with the Harvey-ras oncogene reduces cytosolic phospholipase A2 function. Teegarden D, et al. **Cancer Lett** 1996 Oct 1;107(1):59–64

Transcriptional activation of H-ras, K-ras and N-ras proto-oncogenes in human bladder tumors. Vageli D, et al. **Cancer Lett** 1996 Oct 22;107(2):241–7

Internal sequence variations in the Ha-ras variable number tandem repeat rare and common alleles identified by minisatellite variant repeat polymerase chain reaction. Conway K, et al. **Cancer Res** 1996 Oct 15;56(20):4773–7

Enhanced sensitivity to 1-beta-D-arabinofuranosylcytosine and topoisomerase II inhibitors in tumor cell lines harboring activated ras oncogenes. Koo HM, et al. **Cancer Res** 1996 Nov 15;56(22):5211–6

K-ras gene mutations in normal colorectal tissues from K-ras mutation-positive colorectal cancer patients. Zhu D, et al. **Cancer Res** 1997 Jun 15;57(12):2485–92

Genetic alterations of p53 and ras genes in 1,3-butadiene- and 2',3'-dideoxycytidine-induced lymphomas. Zhuang SM, et al. **Cancer Res** 1997 Jul 1;57(13):2710–4

Genetic alterations in N-bis(2-hydroxypropyl)nitrosamine-induced rat transplantable thyroid carcinoma lines: analysis of the TSH-R, G(alpha)s, ras and p53 genes. Kitahori Y, et al. **Carcinogenesis** 1997 Feb;18(2):265–9

The angiogenic switch in hamster buccal pouch keratinocytes is dependent on TGFbeta-1 and is unaffected by ras activation. Lingen MW, et al. **Carcinogenesis** 1997 Feb; 18(2):329–38

Dichloroacetic acid reduces Ha-ras codon 61 mutations in liver tumors from female B6C3F1 mice. Schroeder M, et al. **Carcinogenesis** 1997 Aug;18(8):1675–8

Lack of p53 and ras mutations in Helicobacter hepaticus-induced liver tumors in A/JCr mice. Sipowicz MA, et al. **Carcinogenesis** 1997 Jan;18(1):233–6

Loss of Apc and the entire chromosome 18 but absence of mutations at the Ras and Tp53 genes in intestinal tumors from Apc1638N, a mouse model for Apc-driven carcinogenesis. Smits R, et al. **Carcinogenesis** 1997 Feb; 18(2):321–7

Cell-substratum interactions mediate oncogene-induced phenotype of lung cancer cells. Barr LF, et al. **Cell Growth Differ** 1996 Sep;7(9):1149–56

Ras(leu61) blocks differentiation of transformable 3T3 L1 and C3H10T1/2-derived preadipocytes in a dose- and time-dependent manner. Raptis L, et al. **Cell Growth Differ** 1997 Jan;8(1):11–21

Lack of mutations in K-ras codons 12 and 13 in human atherosclerotic lesions. Bogliolo M, et al. **Chem Biol Interact** 1996 Sep 27;102(1):55–62

Simultaneous detection of genetic and immunological markers in non-small cell lung cancer: prediction of metastatic potential of tumor. Zborovskaya I, et al. **Clin Exp Metastasis** 1996 Nov;14(6):490–500

Laboratory probing of oncogenes from human liquid and

solid specimens as markers of exposure to toxicants. Nelson E. **Crit Rev Toxicol** 1996 Sep;26(5):483–549 (397 ref.)

Highly sensitive nonradioactive single–strand conformational polymorphism. Detection of Ki–ras mutations. Emanuel JR, et al. **Diagn Mol Pathol** 1996 Dec;5(4):260–4

Increases in Ki–ras and ornithine decarboxylase gene expression in rat pancreas after caerulein–induced pancreatitis. Sarfati P, et al. **Digestion** 1996 Nov–Dec; 57(6):453–63

Ki–ras point mutation in different types of colorectal carcinomas in early stages. Kojima M, et al. **Dis Colon Rectum** 1997 Feb;40(2):161–7

Detection of oncogene mutation from neoplastic colonic cells exfoliated in feces. Ratto C, et al. **Dis Colon Rectum** 1996 Nov;39(11):1238–44

Expression of cDNA clones by coupled in vitro transcription/translation and transfection into COS–1 cells: protein mapping in two–dimensional gels. Madsen P, et al. **Electrophoresis** 1995 Dec;16(12):2258–61

The basic region/helix–loop–helix/leucine repeat transcription factor USF interferes with Ras transformation. Aperlo C, et al. **Eur J Biochem** 1996 Oct 1;241(1):249–53

A microplate assay for K–ras genotyping. Berndt C, et al. **Eur J Clin Chem Clin Biochem** 1996 Oct;34(10):837–40

K–ras point mutations are rare events in premalignant forms of Barrett's oesophagus. Trautmann B, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):799–804

Long–term follow–up of patients with chronic pancreatitis and K–ras gene mutation detected in pancreatic juice. Furuya N, et al. **Gastroenterology** 1997 Aug;113(2):593–8

Genetic alterations in sporadic and Crohn's–associated adenocarcinomas of the small intestine. Rashid A, et al. **Gastroenterology** 1997 Jul;113(1):127–35

Two ras genes in Dictyostelium minutum show high sequence homology, but different developmental regulation from Dictyostelium discoideum rasD and rasG genes. van Es S, et al. **Gene** 1997 Mar 10;187(1):93–7

Codeletion of the JUN proto–oncogene and the CDKN2A tumor–suppressor gene in HRAS–transformed rat embryo fibroblast cell lines. Zhou JN, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):82–9

High frequency of K–ras mutations in human colorectal hyperplastic polyps [see comments] Otori K, et al. **Gut** 1997 May;40(5):660–3. Comment in: Gut 1997 May;40(5):691–2.

Identification of H, K, and N–ras point mutations in stage IB cervical carcinoma. Grendys EC Jr, et al. **Gynecol Oncol** 1997 May;65(2):343–7

Analysis of Ki–ras, p53, and MDM2 genes in uterine leiomyomas and leiomyosarcomas. Hall KL, et al. **Gynecol Oncol** 1997 May;65(2):330–5

K–ras point mutations in endometrial carcinoma: effect on outcome is dependent on age of patient. Ito K, et al. **Gynecol Oncol** 1996 Nov;63(2):238–46

Expression of the farnesyltransferase beta–subunit gene in human ovarian carcinoma: correlation to K–ras mutation. Tanimoto H, et al. **Gynecol Oncol** 1997 Aug;66(2):308–12

KRAS oncogene mutations suggest a common histogenetic origin for pleomorphic giant cell tumor of the pancreas, osteoclastoma of the pancreas, and pancreatic duct adenocarcinoma. Gocke CD, et al. **Hum Pathol** 1997 Jan; 28(1):80–3

The molecular epidemiology of occupational carcinogenesis in vinyl chloride exposed workers. Marion MJ, et al. **Int Arch Occup Environ Health** 1996;68(6):394–8

Mutations of the Ki–ras, p53 and APC genes in adenocarcinomas of the human small intestine. Arai M, et al. **Int J Cancer** 1997 Feb 7;70(4):390–5

N–ras oncogene expression changes the growth characteristics of human melanoma in two independent SCID–hu mouse models. Jansen B, et al. **Int J Cancer** 1996 Sep 17;67(6):821–5

Detection of low–fraction K–ras mutations in primary lung tumors using a sensitive method. Keohavong P, et al. **Int J Cancer** 1997 Apr 22;74(2):162–70

Rare alleles at different VNTR loci among lung–cancer patients with microsatellite instability in tumours. Lindstedt BA, et al. **Int J Cancer** 1997 Feb 7;70(4):412–5

Ki–ras mutations in exocrine pancreatic cancer: association with clinico–pathological characteristics and with tobacco and alcohol consumption. PANK–ras I Project Investigators. Malats N, et al. **Int J Cancer** 1997 Mar 17; 70(6):661–7

Transfection of human mutated K–ras in mouse NIH–3T3 cells is associated with increased cloning efficiency and DNA aneuploidization. Nigro S, et al. **Int J Cancer** 1996 Sep 17;67(6):871–5

Establishment and characterization of human gastric carcinoma cell lines. Park JG, et al. **Int J Cancer** 1997 Feb 7;70(4):443–9

Effect of ethanol and cocaine treatment of the immune system of v–Ha–ras–transgenic mice. Chen G, et al. **Int J Immunopharmacol** 1996 Apr;18(4):251–8

Identification of mutations in the Ki–ras gene in human retinoblastoma. Bautista D, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2313–7

Antisense oligonucleotides demonstrate a dominant role of c–Ki–RAS proteins in regulating the proliferation of diploid human fibroblasts. Chen G, et al. **J Biol Chem** 1996 Nov 8;271(45):28259–65

Regulation of bradykinin B2 receptors by the ras oncogene: evidence for multiple mechanisms. Hembree TN, et al. **J Cell Physiol** 1996 Nov;169(2):248–55

CD44 protein levels and its biological activity are regulated in Balb/c 3T3 fibroblasts by serum factors and by transformation with the ras but not with the sis oncogene. Kogerman P, et al. **J Cell Physiol** 1996 Nov;169(2):341–9

Mutational activation of the K–ras oncogene and the effect of chemotherapy in advanced adenocarcinoma of the lung: a prospective study. Rodenhuis S, et al. **J Clin Oncol** 1997 Jan;15(1):285–91

Fertility and incidence of KRAS2 mutations in borderline ovarian adenocarcinomas [letter] Chenevix–Trench G, et al. **J Natl Cancer Inst** 1997 Jun 18;89(12):890–1

Alterations of p16/CDKN2, p53 and ras genes in oral squamous cell carcinomas and premalignant lesions. Matsuda H, et al. **J Oral Pathol Med** 1996 May;25(5):232–8

Alterations of tumor suppressor genes and the H–ras oncogene in oral squamous cell carcinoma. Sakata K. **J Oral Pathol Med** 1996 Jul;25(6):302–7

The pattern of K–ras mutation in pulmonary adenocarcinoma defines a new pathway of tumour development in the human lung. Cooper CA, et al. **J Pathol** 1997 Apr; 181(4):401–4

Mutational analysis of the p53 and K–ras genes and allelotype study of the Rb–1 gene for investigating the pathogenesis of combined hapatocellular–cholangiocellular carcinomas. Imai Y, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1056–62

Demonstration of ras and p53 gene mutations in carcinomas in the forestomach and intestine and soft tissue sarcomas induced by N–methyl–N–nitrosourea in the rat. Matsumoto K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):129–36

Detection of K–ras point mutation by in situ PCR in cell suspensions: comparison of the indirect and direct methods. Sagawa M, et al. **Lung Cancer** 1997 Jul;17(2–3):181–95

Comparison of effect of tumor promoter treatments on DNA methylation status and gene expression in B6C3F1 and C57BL/6 mouse liver and in B6C3F1 mouse liver tumors. Counts JL, et al. **Mol Carcinog** 1997 Feb;18(2):97–106

Interaction of activated Ras with Raf–1 alone may be sufficient for transformation of rat2 cells. Stang S, et al. **Mol Cell Biol** 1997 Jun;17(6):3047–55

Antiapoptotic effect of ras in the apoptosis induced by serum deprivation and exposure to actinomycin D. Chou CC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):177–82

Stimulated human leukocytes cause activating mutations in the K–ras protooncogene. Jackson JH, et al. **Oncogene** 1997 Jun 12;14(23):2803–8

Epstein–Barr virus nuclear antigen (EBNA)3C is an immortalizing oncoprotein with similar properties to adenovirus E1A and papillomavirus E7. Parker GA, et al. **Oncogene** 1996 Dec 19;13(12):2541–9

ras gene mutations in human endometrial carcinoma. Varras MN, et al. **Oncology** 1996 Nov–Dec;53(6):505–10

High–level expression of H–ras and c–myc oncogenes in mycoplasma–mediated malignant cell transformation. Zhang B, et al. **Proc Soc Exp Biol Med** 1997 Apr; 214(4):359–66

Comparison of ras activation in prostate carcinoma in Japanese and American men. Konishi N, et al. **Prostate** 1997 Jan 1;30(1):53–7

Studies of the c–Harvey–Ras gene in psychiatric disorders. Comings DE, et al. **Psychiatry Res** 1996 Jun 26;63(1):25–32

Mutations and expression of the ras family genes in leukemias. Gougopoulou DM, et al. **Stem Cells** 1996 Nov;14(6):725–9

Multiple changes in oncogenes and tumor suppressor genes in human retinoblastoma. Howard RO. **Trans Am Ophthalmol Soc** 1996;94:299–312; discussion 312–4

[Activation of proto–oncogenes induced by MNNG on primary culture of human gastric epithelium and immortalized human gastric epithelial cell line] Wang B, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):6–9 (Eng. Abstr.) **(Chi)**

[Detection of c–Ki–ras oncogene codon 12 point mutations in lung carcinoma, gastric carcinoma and hepatic carcinoma] Cui Q, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):95–8 (Eng. Abstr.) **(Chi)**

[Carcinogenic mechanisms of multiple genes in cervical carcinoma] Huang G, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):5–9 (Eng. Abstr.) **(Chi)**

[Gene K–ras mutation in cells of endometrial adenocarcinoma in women] Semczuk A, et al. **Ginekol Pol** 1996 May;67(5):259–63 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Dacarbazine–induced immunogenicity of a murine leukemia is attenuated in cells transfected with mutated K–ras gene. Testorelli C, et al. **J Exp Clin Cancer Res** 1997 Mar; 16(1):15–22

[The effect of antisense H–ras on growth and metastasis of a high metastatic tumor model of human hepatoma in nude mice LCI–D20] Liao Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):650–3 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

Ha–ras oncogene transformation abolishes retinoic acid–induced reduction of intracellular fibronectin. De–Luca LM, et al. **Braz J Med Biol Res** 1996 Sep; 29(9):1127–31

Targeted disruption of the epidermal growth factor receptor impairs growth of squamous papillomas expressing the v–ras(Ha) oncogene but does not block in vitro keratinocyte responses to oncogenic ras. Dlugosz AA, et al. **Cancer Res** 1997 Aug 1;57(15):3180–8

Differential regulation of cell cycle characteristics and apoptosis in MMTV–myc and MMTV–ras mouse mammary tumors. Hundley JE, et al. **Cancer Res** 1997 Feb 15;57(4):600–3

Activated N–ras contributes to the chemoresistance of human melanoma in severe combined immunodeficiency (SCID) mice by blocking apoptosis. Jansen B, et al. **Cancer Res** 1997 Feb 1;57(3):362–5

Ha–rasVal12 but not p53Ser247 leads to a significant neoplastic transformation rate of the putative rat liver stem cells (oval cell). Becker R, et al. **Carcinogenesis** 1996 Dec; 17(12):2635–40

Loss of response to epidermal growth factor and retinoic acid accompanies the transformation of human prostatic epithelial cells to tumorigenicity with v–Ki–ras. Peehl DM, et al. **Carcinogenesis** 1997 Aug;18(8):1643–50

Cellular ras gene activity is required for full neoplastic transformation by the large tumor antigen of SV40. Raptis L, et al. **Cell Growth Differ** 1997 Aug;8(8):891–901

Ras inhibits Jun–activated human atrial natriuretic peptide gene transcription in cultured ventricular myocytes. Kovacic–Milivojevic B, et al. **Circ Res** 1997 Apr; 80(4):580–8

Mechanism of skin tumorigenesis by contact sensitizers: the effect of the corticosteroid fluocinolone acetonide on inflammation and tumor induction by 2,4 dinitro–1–fluorobenzene in the skin of the TG.AC (v–Ha–ras) mouse. Albert RE, et al. **Environ Health Perspect** 1996 Oct;104(10):1062–8

V–Ha–ras–dependent expression of interleukin–3 mRNA in premalignant PB–3c mast cells correlates with the formation of tumors without interleukin–3 gene rearrangements. Aebersold DM, et al. **Exp Hematol** 1997 May;25(5):395–404

Alterations in enzymatic functions in hepatocytes and hepatocellular carcinomas from Ras–transduced livers resemble the effects of insulin. Pearline RV, et al. **Hepatology** 1996 Oct;24(4):838–48

The superfamily of Ras–related GTPases. McCormick F. **Jpn J Cancer Res** 1997 Jul;88(7):inside front cover

Constitutive activation of mitogen–activated protein kinase pathway in acute leukemia cells. Towatari M, et al. **Leukemia** 1997 Apr;11(4):479–84

Phosphorylation of Raf–1 serine 338–serine 339 is an essential regulatory event for Ras–dependent activation and biological signaling. Diaz B, et al. **Mol Cell Biol** 1997 Aug; 17(8):4509–16

Increased tumor proliferation and genomic instability without decreased apoptosis in MMTV–ras mice deficient in p53. Hundley JE, et al. **Mol Cell Biol** 1997 Feb;17(2):723–31

Kinase–deficient Pak1 mutants inhibit Ras transformation of Rat–1 fibroblasts. Tang Y, et al. **Mol Cell Biol** 1997 Aug; 17(8):4454–64

Activation of p21ras is not sufficient to ensure a complete G1 phase of the cell division cycle in mouse fibroblasts. Gaben AM, et al. **Oncogene** 1996 Nov 21;13(10):2113–20

What's new in ras genes? Physiological role of ras genes in signal transduction and significance of ras gene activation in tumorigenesis. Waldmann V, et al. **Pathol Res Pract** 1996 Sep;192(9):883–91 (119 ref.)

GENES, RB see **GENES, RETINOBLASTOMA**

GENES, RECESSIVE

Abnormal audiograms and elevated acoustic reflex thresholds in obligate carriers of autosomal recessive non–syndromic hearing loss. Cohen M, et al. **Acta Otolaryngol (Stockh)** 1997 May;117(3):337–42

Biology of the congenitally hypothyroid hyt/hyt mouse. Biesiada E, et al. **Adv Neuroimmunol** 1996;6(4):309–46 (156 ref.)

Assignment of the mulibrey nanism gene to 17q by linkage and linkage–disequilibrium analysis. Avela K, et al. **Am J Hum Genet** 1997 Apr;60(4):896–902

Strategies for mapping heterogeneous recessive traits by allele–sharing methods. Feingold E, et al. **Am J Hum Genet** 1997 Apr;60(4):965–78

Autosomal recessive Sorsby fundus dystrophy revisited: molecular evidence for dominant inheritance. Felbor U, et al. **Am J Hum Genet** 1997 Jan;60(1):57–62

X–linked recessive panhypopituitarism associated with a regional duplication in Xq25–q26. Lagerström–Fermér M, et al. **Am J Hum Genet** 1997 Apr;60(4):910–6

Localization of a gene for an autosomal recessive form of juvenile Parkinsonism to chromosome 6q25.2–27. Matsumine H, et al. **Am J Hum Genet** 1997 Mar; 60(3):588–96

A vertical (pseudodominant) pattern of inheritance in the autosomal recessive disease primary hyperoxaluria type 1: lack of relationship between genotype, enzymic phenotype, and disease severity. Hoppe B, et al. **Am J Kidney Dis** 1997 Jan;29(1):36–44 (27 ref.)

Bilateral sensorineural deafness and hydrocephalus due to foramen of Monro obstruction in sibs: a newly described autosomal recessive disorder. Chudley AE, et al.

Am J Med Genet 1997 Jan 31;68(3):350–6
Autosomal recessive lateralization and midline defects: blastogenesis recessive 1. Debrus S, et al.
Am J Med Genet 1997 Feb 11;68(4):401–4
New autosomal recessive syndrome of progressive sensorineural hearing loss and cataracts: report on two Brazilian patients. De Vitto LP, et al.
Am J Med Genet 1997 Jun 13;70(3):247–9
Diaphragmatic hernia–exomphalos–hypertelorism syndrome: a new case and further evidence of autosomal recessive inheritance. Gripp KW, et al. **Am J Med Genet** 1997 Feb 11;68(4):441–4
Possible new autosomal recessive syndrome of lymphedema, hydroceles, atrial septal defect, and characteristic facial changes. Irons MB, et al. **Am J Med Genet** 1996 Dec 2; 66(1):69–71
Estimating parental relationship in linkage analysis of recessive traits. Mérette C, et al. **Am J Med Genet** 1996 May 17;63(2):386–91
Gonadal (ovarian) dysgenesis in 46,XX individuals: frequency of the autosomal recessive form. Meyers CM, et al.
Am J Med Genet 1996 Jun 28;63(4):518–24 (17 ref.)
Inheritance of skewed X chromosome inactivation in a large family with an X–linked recessive deafness syndrome. Orstavik KH, et al. **Am J Med Genet** 1996 Jul 12;64(1):31–4
Autosomal recessive disorders in Saguenay–Lac–Saint–Jean (Quebec, Canada): a study of inbreeding. De Braekeleer M, et al. **Ann Hum Genet** 1996 Jan;60 (Pt 1):51–6
Familial holoprosencephaly: further example of autosomal recessive inheritance. Gillessen–Kaesbach G.
Birth Defects Orig Artic Ser 1996;30(1):251–9 (24 ref.)
Molecular genetics of hereditary dystonia—mutations in the GTP cyclohydrolase I gene. Ichinose H, et al.
Brain Res Bull 1997;43(1):35–8 (26 ref.)
Myosin VIIa, the product of the Usher 1B syndrome gene, is concentrated in the connecting cilia of photoreceptor cells. Liu X, et al. **Cell Motil Cytoskeleton** 1997; 37(3):240–52
Autosomal recessive hydrocephalus with aqueductal stenosis. Castro–Gago M, et al. **Childs Nerv Syst** 1996 Apr; 12(4):188–91 (47 ref.)
Setleis syndrome: autosomal recessive or autosomal dominant inheritance? al–Gazali LI, et al. **Clin Dysmorphol** 1996 Jul; 5(3):249–53
Spondyloepimetaphyseal dysplasia and abnormal dentition in siblings: a new autosomal recessive syndrome. Rao V, et al. **Clin Dysmorphol** 1997 Jan;6(1):3–12
Pterygia associated with otomandibular anomalies: a new autosomal recessive condition? Williams DK, et al.
Clin Dysmorphol 1997 Apr;6(2):123–8
Extreme intrauterine growth retardation, hydrocephalus and aged facial appearance: a previously unrecognized autosomal recessive disorder? Winter RM, et al.
Clin Dysmorphol 1996 Oct;5(4):313–9
Autosomal recessive retinitis pigmentosa in Spain: evaluation of four genes and two loci involved in the disease. Bayés M, et al. **Clin Genet** 1996 Nov;50(5):380–7
An autosomal recessive adducted thumb–club foot syndrome observed in Turkish cousins. Dundar M, et al.
Clin Genet 1997 Jan;51(1):61–4
X–linked exudative vitreoretinopathy caused by an arginine to leucine substitution (R121L) in the Norrie disease protein. Johnson K, et al. **Clin Genet** 1996 Sep;50(3):113–5
A new autosomal recessive syndrome of pachygyria. Straussberg R, et al. **Clin Genet** 1996 Dec;50(6):498–501
Autosomal recessive lamellar ichthyosis and acute lymphoblastic leukemia. al–Sheyyab M, et al.
Eur J Hum Genet 1996;4(2):105–7
Quantification of muscle strength in recessive myotonia congenita. Baumann P, et al. **Eur Neurol** 1996;36(5):284–7
The photoreceptor rim protein is an ABC transporter encoded by the gene for recessive Stargardt's disease (ABCR). Azarian SM, et al. **FEBS Lett** 1997 Jun 9; 409(2):247–52
Computation of multilocus prior probability of autozygosity for complex inbred pedigrees. Guo SW.
Genet Epidemiol 1997;14(1):1–15
Clusters of identical new mutation in the evolutionary landscape. Woodruff RC, et al. **Genetica** 1996 Oct; 98(2):149–60
A metabolic basis for dominance and recessivity. Keightley PD. **Genetics** 1996 Jun;143(2):621–5 (32 ref.)
A general method for identifying recessive diploid–specific mutations in Saccharomyces cerevisiae, its application to the isolation of mutants blocked at intermediate stages of meiotic prophase and characterization of a new gene SAE2. McKee AH, et al. **Genetics** 1997 Jul;146(3):797–816
An allelic series of blue fluorescent trp1 mutants of Arabidopsis thaliana. Rose AB, et al. **Genetics** 1997 Jan; 145(1):197–205
The neurological mouse mutations jittery and hesitant are allelic and map to the region of mouse chromosome 10 homologous to 19p13.3. Kapfhamer D, et al. **Genomics** 1996 Aug 1;35(3):533–8
A new locus for autosomal recessive retinitis pigmentosa (RP19) maps to 1p13–1p21. Martínez–Mir A, et al.
Genomics 1997 Feb 15;40(1):142–6
Genetic load in chromosomes 3 in a population of Drosophila melanogaster in Lagos, Nigeria. Williams GO, et al.
Hereditas 1996;125(1):83–7
Inheritance of cleft palate in Italy. Evidence for a major autosomal recessive locus. Clementi M, et al.
Hum Genet 1997 Aug;100(2):204–9
Implications of intragenic marker homozygosity and haplotype sharing in a rare autosomal recessive disorder: the example of the collagen type XVII (COL17A1) locus in generalised atrophic benign epidermolysis bullosa. Scheffer H, et al. **Hum Genet** 1997 Aug;100(2):230–5
Evidence of a third locus in X–linked recessive spastic paraplegia [letter] Steinmüller R, et al. **Hum Genet** 1997 Aug;100(2):287–9
Phenylketonuria and the peoples of Northern Ireland. Zschocke J, et al. **Hum Genet** 1997 Aug;100(2):189–94
Crigler–Najjar syndrome type II is inherited both as a dominant and as a recessive trait. Koiwai O, et al.
Hum Mol Genet 1996 May;5(5):645–7
Apparent digenic inheritance of Waardenburg syndrome type 2 (WS2) and autosomal recessive ocular albinism (AROA). Morell R, et al. **Hum Mol Genet** 1997 May;6(5):659–64
Linkage analysis in autosomal recessive limb–girdle muscular dystrophy (AR LGMD) maps a sixth form to 5q33–34 (LGMD2F) and indicates that there is at least one more subtype of AR LGMD. Passos–Bueno MR, et al.
Hum Mol Genet 1996 Jun;5(6):815–20
Severe, recessive von Willebrand's disease in German Wirehaired Pointers. Brooks M, et al.
J Am Vet Med Assoc 1996 Sep 1;209(5):926–9
Isolation, purification, and in vitro characterization of recessive–lethal–mutant RNA polymerases from Escherichia coli. Tavormina PL, et al. **J Bacteriol** 1996 Sep;178(17):5263–71
Autosomal recessive nephrogenic diabetes insipidus caused by an aquaporin–2 mutation. Hochberg Z, et al.
J Clin Endocrinol Metab 1997 Feb;82(2):686–9
Patterns of neuronal differentiation in neural tube mutant mice: curly tail and Pax3 splotch–delayed. Keller–Peck CR, et al. **J Comp Neurol** 1996 May 13;368(4):516–26
Histological changes caused by the rc mutation in chickens. Cerruti Sola S, et al. **J Comp Pathol** 1997 May; 116(4):329–38
X–linked recessive myotubular myopathy proven by muscle biopsy. Tsai CH, et al. **J Formos Med Assoc** 1996 Feb; 95(2):153–6
Dorfman–Chanarin syndrome: a case with prevalent hepatic involvement. Mela D, et al. **J Hepatol** 1996 Nov; 25(5):769–71
Benign recurrent intrahepatic cholestasis and Byler's disease: one gene, two diseases? [editorial] Van Berge Henegouwen GP. **J Hepatol** 1996 Sep;25(3):395–7
Coat color genetics of Peromyscus: V. California blonde, a new recessive mutation in the deer mouse. Roth VL, et al. **J Hered** 1996 Sep–Oct;87(5):403–6
Clinicopathological correlations of compound heterozygous COL7A1 mutations in recessive dystrophic epidermolysis bullosa. Dunnill MG, et al. **J Invest Dermatol** 1996 Aug; 107(2):171–7
Lanceolate hair (lah): a recessive mouse mutation with alopecia and abnormal hair. Montagutelli X, et al.
J Invest Dermatol 1996 Jul;107(1):20–5
Unusual molecular findings in autosomal recessive spinal muscular atrophy. Matthijs G, et al. **J Med Genet** 1996 Jun;33(6):469–74
Congenital diaphragmatic hernia with probable autosomal recessive inheritance in an extended consanguineous Pakistani pedigree. Mitchell SJ, et al. **J Med Genet** 1997 Jul;34(7):601–3
Main clinical features of the three mapped autosomal recessive limb–girdle muscular dystrophies and estimated proportion of each form in 13 Brazilian families. Passos–Bueno MR, et al. **J Med Genet** 1996 Feb; 33(2):97–102
Nijmegen breakage syndrome. van der Burgt I, et al.
J Med Genet 1996 Feb;33(2):153–6 (25 ref.)
Lack of evidence for connexin 43 gene mutations in human autosomal recessive lateralization defects. Debrus S, et al.
J Mol Cell Cardiol 1997 May;29(5):1423–31
Molecular genetics of familial spastic paraplegia: a multitude of responsible genes. Kobayashi H, et al. **J Neurol Sci** 1996 May;137(2):131–8 (40 ref.)
Inheritance of Chediak–Higashi syndrome in Japanese black cattle. Tu CH, et al. **J Vet Med Sci** 1996 Jun;58(6):501–4
Cerebellar deficient folia (cdf): a new mutation on mouse chromosome 6. Cook SA, et al. **Mamm Genome** 1997 Feb; 8(2):108–12
Megencephaly: a new mouse mutation on chromosome 6 that causes hypertrophy of the brain. Donahue LR, et al.
Mamm Genome 1996 Dec;7(12):871–6
A rat mutation producing demyelination (dmy) maps to chromosome 17. Kuramoto T, et al. **Mamm Genome** 1996 Dec;7(12):890–4
A photoreceptor cell–specific ATP–binding transporter gene (ABCR) is mutated in recessive Stargardt macular dystrophy [see comments] Allikmets R, et al.
Nat Genet 1997 Mar;15(3):236–46. Comment in: Nat Genet 1997 Mar;15(3):224–5.
Mutations in the myosin VIIA gene cause non–syndromic recessive deafness. Liu XZ, et al. **Nat Genet** 1997 Jun; 16(2):188–90
The autosomal recessive isolated deafness, DFNB2, and the Usher 1B syndrome are allelic defects of the myosin–VIIA gene. Weil D, et al. **Nat Genet** 1997 Jun;16(2):191–3
A novel mutation in the sterol 27–hydroxylase gene of a Pakistani family with autosomal recessive cerebrotendinous xanthomatosis. Ahmed MS, et al. **Neurology** 1997 Jan; 48(1):258–60
Primary adhalinopathy (alpha–sarcoglycanopathy): clinical, pathologic, and genetic correlation in 20 patients with autosomal recessive muscular dystrophy. Eymard B, et al.
Neurology 1997 May;48(5):1227–34
A clinical, electrophysiologic, neuropathologic, and genetic study of two large Algerian families with an autosomal recessive demyelinating form of Charcot–Marie–Tooth disease. Kessali M, et al. **Neurology** 1997 Apr;48(4):867–73
Optimized protein diagnosis in the autosomal recessive limb–girdle muscular dystrophies. Anderson LV.
Neuromuscul Disord 1996 Dec;6(6):443–6
Identification of muscle–specific calpain and beta–sarcoglycan genes in progressive autosomal recessive muscular dystrophies. Beckmann JS, et al.
Neuromuscul Disord 1996 Dec;6(6):455–62
Limb–girdle muscular dystrophy 2C: clinical aspects. Ben Hamida M, et al. **Neuromuscul Disord** 1996 Dec;6(6):493–4
Towards the classification of the autosomal recessive limb–girdle muscular dystrophies. Bushby K.
Neuromuscul Disord 1996 Dec;6(6):439–41
Autosomal recessive muscular dystrophy and mutations of the sarcoglycan complex. Duggan DJ, et al.
Neuromuscul Disord 1996 Dec;6(6):475–82
The Aircardi–Goutières syndrome: variable clinical expression in two siblings. Verrips A, et al.
Pediatr Neurol 1997 May;16(4):323–5
Reduced naphthylphthalamic acid binding in the tir3 mutant of Arabidopsis is associated with a reduction in polar auxin transport and diverse morphological defects. Ruegger M, et al. **Plant Cell** 1997 May;9(5):745–57
The hypostatic genotype of the recessive white prat breed of chickens. Campo JL. **Poult Sci** 1997 Mar;76(3):432–6
Diagnostic echographic findings in cryptophthalmos syndrome (Fraser syndrome). Fryns JP, et al.
Prenat Diagn 1997 Jun;17(6):582–4
Spontaneous mutations recovered as mosaics in the mouse specific–locus test. Russell LB, et al.
Proc Natl Acad Sci U S A 1996 Nov 12;93(23):13072–7
Molecular perspectives on cancer, the cell cycle and the inherited disorder ataxia–telangiectasia. Brown KD, et al.
Prog Clin Biol Res 1997;396:101–13 (81 ref.)
Mechanisms leading to the expression of recessive alleles: the use of polymorphic microsatellites and whole–chromosome painting probes to analyze mouse tumors, mutants, and micronuclei. Caspary WJ, et al.
Recent Results Cancer Res 1997;143:161–82 (82 ref.)
Results of a screening for von Willebrand disease type 2N in patients with suspected haemophilia A or von Willebrand disease type 1. Schneppenheim R, et al.
Thromb Haemost 1996 Oct;76(4):598–602
[Clinical characteristics and linkage analysis of autosomal recessive form of juvenile parkinsonism(AR–JP)] Saito M, et al. **Nippon Rinsho** 1997 Jan;55(1):83–8 (22 ref.) (Eng. Abstr.) **(Jpn)**
[Autosomal recessive early–onset parkinsonism with diurnal fluctuation (AR–EPDF)—clinical characteristics] Yamamura Y, et al. **Rinsho Shinkeigaku** 1996 Aug; 36(8):944–50 (Eng. Abstr.) **(Jpn)**
[Radio–adaptive response in repair–defective cells from patients with homocystinuria] Zasukhina GD, et al.
Genetika 1996 Nov;32(11):1592–5 (Eng. Abstr.) **(Rus)**

GENETICS

Limb–girdle muscular dystrophy: a follow–up study of 79 patients. Mahjneh I, et al. **Acta Neurol Scand** 1996 Sep; 94(3):177–89
Congenital vocal cord paralysis with possible autosomal recessive inheritance: case report and review of the literature. Koppel R, et al. **Am J Med Genet** 1996 Aug 23;64(3):485–7 (14 ref.)
Chocolate: a sex–linked recessive plumage colour mutant of the domestic fowl. Carefoot WC. **Br Poult Sci** 1996 Sep; 37(4):867–8
Chediak–Higashi syndrome natural killer cells: a protein kinase C defective activation/regulation defect? [letter] Merino F, et al. **Eur J Pediatr** 1996 Mar;155(3):254
A demonstration using mouse models that successful gene therapy for cystic fibrosis requires only partial gene correction. Dorin JR, et al. **Gene Ther** 1996 Sep; 3(9):797–801
Fountain syndrome: further delineation of the clinical syndrome and follow–up data. Van Buggenhout GJ, et al.
Genet Couns 1996;7(3):177–86
Identity–by–descent mapping of recessive traits in livestock: application to map the bovine syndactyly locus to chromosome 15. Charlier C, et al. **Genome Res** 1996 Jul; 6(7):580–9
A locus for autosomal recessive pseudoxanthoma elasticum, with penetrance of vascular symptoms in carriers, maps to chromosome 16p13.1 [letter] van Soest S, et al.
Genome Res 1997 Aug;7(8):830–4
Chromosomal localization of a new mouse lens opacity gene (lop18) [published erratum appears in Genomics 1997 Jan 15;39(2):237] Chang B, et al. **Genomics** 1996 Aug 15; 36(1):171–3
Genomic organization of SLC3A1, a transporter gene mutated in cystinuria. Pras E, et al. **Genomics** 1996 Aug 15;36(1):163–7
Linkage disequilibrium mapping of the cornea plana congenita gene CNA2. Tahvanainen E, et al. **Genomics** 1995 Dec 10;30(3):409–14

Autosomal recessive disorders in Saguenay-Lac-St-Jean, Quebec: study of kinship. De Braekeleer M, et al. **Hum Biol** 1996 Jun;68(3):371-81

Localization of a gene responsible for autosomal recessive demyelinating neuropathy with focally folded myelin sheaths to chromosome 11q23 by homozygosity mapping and haplotype sharing. Bolino A, et al. **Hum Mol Genet** 1996 Jul;5(7):1051-4

Mapping of DFNB12, a gene for a non-syndromal autosomal recessive deafness, to chromosome 10q21-22. Chaib H, et al. **Hum Mol Genet** 1996 Jul;5(7):1061-4

Organization and nucleotide sequence of the human Hermansky-Pudlak syndrome (HPS) gene. Bailin T, et al. **J Invest Dermatol** 1997 Jun;108(6):923-7

Evidence for compound heterozygosity causing mild and severe forms of autosomal recessive spinal muscular atrophy. Talbot K, et al. **J Med Genet** 1996 Dec; 33(12):1019-21

Lipoid proteinosis in a family. Hafeez ZH, et al. **JPMA J Pak Med Assoc** 1996 Sep;46(9):204-6

Multicenter genetic study of retinitis pigmentosa in Japan: II. Prevalence of autosomal recessive retinitis pigmentosa. Hayakawa M, et al. **Jpn J Ophthalmol** 1997 Jan-Feb; 41(1):7-11

High-resolution genetic mapping of the gunmetal gene which regulates platelet production. O'Brien EP, et al. **Mamm Genome** 1996 Mar;7(3):206-8

Autosomal recessive limb-girdle muscular dystrophy, LGMD2F, is caused by a mutation in the delta-sarcoglycan gene. Nigro V, et al. **Nat Genet** 1996 Oct;14(2):195-8

Mutations in the gene-encoding SERCA1, the fast-twitch skeletal muscle sarcoplasmic reticulum Ca2+ ATPase, are associated with Brody disease. Odermatt A, et al. **Nat Genet** 1996 Oct;14(2):191-4

Prognostic clues and outcome of early treatment of nonketotic hyperglycinemia. Boneh A, et al. **Pediatr Neurol** 1996 Sep;15(2):137-41

[Angiokeratoma corporis diffusum universale (Fabry disease)] Frank J, et al. **Hautarzt** 1996 Oct;47(10):776-9 (Eng. Abstr.) **(Ger)**

[Rhegmatogenous retinal detachment in atrophia gyrata: pars plana vitrectomy with silicone oil instillation] Engelmann K, et al. **Klin Monatsbl Augenheilkd** 1996 Dec;209(6):373-5 (Eng. Abstr.) **(Ger)**

[Albinism, thrombopathy, ceroid storage disease--Hermansky-Pudlak syndrome. Overview and description with immunodeficiency] Berz F, et al. **Klin Padiatr** 1996 Mar-Apr;208(2):83-7 (50 ref.) (Eng. Abstr.) **(Ger)**

[Familial congenital horizontal gaze paralysis] Steffen H, et al. **Ophthalmologe** 1996 Aug;93(4):380-2 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

The lethal (2) giant larva (l(2)gl), a recessive oncogene, is required during embryonic and post-embryonic development in Drosophila. Baek KH, et al. **Cancer Lett** 1997 Jan 1;111(1-2):233-8

GENES, REGULATOR

see related
REGULON
TRANS-ACTIVATION (GENETICS)

Cloning of rat and mouse aquaporin-2 gene promoters and identification of a negative cis-regulatory element. Rai T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F264-73

A CRE-like element plays an essential role in cAMP regulation of human SP-A2 gene in alveolar type II cells. Young PP, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L287-99

Expression of colonization factor antigen I fimbriae by enterotoxigenic Escherichia coli; influence of growth conditions and a recombinant positive regulatory gene. Halvorsen T, et al. **APMIS** 1997 Mar;105(3):247-54

Identification and sequence analysis of two regulatory genes involved in anaerobic toluene metabolism by strain T1. Coschigano PW, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):652-60

Control of gene expression in Entamoeba histolytica by a cis-acting upstream regulatory element. Gilchrist CA, et al. **Arch Med Res** 1997;28 Spec No:39-40

Characterization of cell division cycle regulating genes of Entamoeba histolytica by flow cytometry. Ray SS, et al. **Arch Med Res** 1997;28 Spec No:122-3

Illuminating flowers: CONSTANS induces LEAFY expression. Blázquez MA. **Bioessays** 1997 Apr;19(4):277-9 (21 ref.)

Gene structure and 5'-flanking regulatory region of the murine serotonin transporter. Bengel D, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):286-92

Induction of cell growth regulatory genes by p53. Madden SL, et al. **Cancer Res** 1996 Dec 1;56(23):5384-90

Software for the analysis of DNA sequence elements of transcription. Frech K, et al. **Comput Appl Biosci** 1997 Feb; 13(1):89-97

Gen(om)e duplications in the evolution of early vertebrates. Sidow A. **Curr Opin Genet Dev** 1996 Dec;6(6):715-22 (39 ref.)

Regulatory mutations in human lipoprotein disorders and atherosclerosis. Kontula K, et al. **Curr Opin Lipidol** 1996 Apr;7(2):64-8 (28 ref.)

The CRABP I gene contains two separable, redundant regulatory regions active in neural tissues in transgenic mouse embryos. Means AL, et al. **Dev Dyn** 1997 May; 209(1):59-69

Long-range genomic rearrangements upstream of Kit dysregulate the developmental pattern of Kit expression in W57 and Wbanded mice and interfere with distinct steps in melanocyte development. Klüppel M, et al. **Development** 1997 Jan;124(1):65-77

Glucocorticoid effects on the skeletal muscle differentiation program: analysis of clonal proliferation, morphological differentiation and the expression of muscle-specific and regulatory genes. Montano MM, et al. **Endocr Res** 1997 Feb-May;23(1-2):37-57

Rapid modulation of the apoptosis regulatory genes, bcl-2 and bax by prolactin in rat Nb2 lymphoma cells. Leff MA, et al. **Endocrinology** 1996 Dec;137(12):5456-62

Multiple regulatory elements in the human GnRH receptor gene [comment] Millar R. **Eur J Endocrinol** 1997 Aug; 137(2):118-9. Comment on: Eur J Endocrinol 1997 Aug;137(2):183-92.

Analysis of alternative splicing patterns in the cystic fibrosis transmembrane conductance regulator gene using mRNA derived from lymphoblastoid cells of cystic fibrosis patients. Bienvenu T, et al. **Eur J Hum Genet** 1996; 4(3):127-34

Evolution of a fungal regulatory gene family: the Zn(II)2Cys6 binuclear cluster DNA binding motif. Todd RB, et al. **Fungal Genet Biol** 1997 Jun;21(3):388-405 (159 ref.)

The an11 locus controlling flower pigmentation in petunia encodes a novel WD-repeat protein conserved in yeast, plants, and animals. de Vetten N, et al. **Genes Dev** 1997 Jun 1;11(11):1422-34

Molecular genetic analysis of Drosophila ash2, a member of the trithorax group required for imaginal disc pattern formation. Adamson AL, et al. **Genetics** 1996 Oct; 144(2):621-33

Asm-1+, a Neurospora crassa gene related to transcriptional regulators of fungal development. Aramayo R, et al. **Genetics** 1996 Nov;144(3):991-1003

oroshigane, a new segment polarity gene of Drosophila melanogaster, functions in hedgehog signal transduction. Epps JL, et al. **Genetics** 1997 Apr;145(4):1041-52

The location of genes governing long first internode of corn. Troyer AF. **Genetics** 1997 Apr;145(4):1149-54

Absence of mutations in the regulatory domain of the gap junction protein connexin 43 in patients with visceroatrial heterotaxy. Penman Splitt M, et al. **Heart** 1997 Apr; 77(4):369-70

A high-resolution map of the regulator of the complement activation gene cluster on 1q32 that integrates new genes and markers. Heine-Suñer D, et al. **Immunogenetics** 1997; 45(6):422-7

Transcriptional regulatory elements in the rat bradykinin B2 receptor gene. Pesquero JB, et al. **Immunopharmacology** 1996 Jun;33(1-3):36-41

Regulation of anthrax toxin activator gene (atxA) expression in Bacillus anthracis: temperature, not CO2/bicarbonate, affects AtxA synthesis. Dai Z, et al. **Infect Immun** 1997 Jul;65(7):2576-82

Role of the staphylococcal accessory gene regulator (sar) in septic arthritis. Nilsson IM, et al. **Infect Immun** 1996 Nov;64(11):4438-43

Functional analysis of exsC and exsB in regulation of exoenzyme S production by Pseudomonas aeruginosa. Goranson J, et al. **J Bacteriol** 1997 Mar;179(5):1646-54

Unbalanced membrane phospholipid compositions affect transcriptional expression of certain regulatory genes in Escherichia coli. Inoue K, et al. **J Bacteriol** 1997 May; 179(9):2872-8

A hydrogen-sensing system in transcriptional regulation of hydrogenase gene expression in Alcaligenes species. Lenz O, et al. **J Bacteriol** 1997 Mar;179(5):1655-63

Expression of AbrB, a transition state regulator from Bacillus subtilis, is growth phase dependent in a manner resembling that of Fis, the nucleoid binding protein from Escherichia coli. O'Reilly M, et al. **J Bacteriol** 1997 Jan;179(2):522-9

Identification and characterization of acoK, a regulatory gene of the Klebsiella pneumoniae acoABCD operon. Peng HL, et al. **J Bacteriol** 1997 Mar;179(5):1497-504

A regulatory gene (ccaR) required for cephamycin and clavulanic acid production in Streptomyces clavuligerus: amplification results in overproduction of both beta-lactam compounds. Pérez-Llarena FJ, et al. **J Bacteriol** 1997 Mar; 179(6):2053-9

Identification of a Cryptococcus neoformans gene that directs expression of the cryptic Saccharomyces cerevisiae mannitol dehydrogenase gene. Perfect JR, et al. **J Bacteriol** 1996 Sep;178(17):5257-62

Negative regulation of L-arabinose metabolism in Bacillus subtilis: characterization of the araR (araC) gene. Sá-Nogueira I, et al. **J Bacteriol** 1997 Mar;179(5):1598-608

Expression, inducer spectrum, domain structure, and function of MopR, the regulator of phenol degradation in Acinetobacter calcoaceticus NCIB8250. Schirmer F, et al. **J Bacteriol** 1997 Feb;179(4):1329-36

Regulation of glycerol metabolism in Pseudomonas aeruginosa: characterization of the glpR repressor gene. Schweizer HP, et al. **J Bacteriol** 1996 Sep;178(17):5215-21

Identification and characterization of a new beta-glucoside utilization system in Bacillus subtilis. Tobisch S, et al. **J Bacteriol** 1997 Jan;179(2):496-506

Dominant role of the second heat shock element in expression of the HSP70-1 gene in rat liver after whole body hyperthermia. Konishi T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1021-9

Regulation of murine cytochrome oxidase Vb gene expression in different tissues and during myogenesis. Role of a YY-1 factor-binding negative enhancer. Basu A, et al. **J Biol Chem** 1997 Feb 28;272(9):5899-908

Ret 4, a positive acting rhodopsin regulatory element identified using a bovine retina in vitro transcription system. Chen S, et al. **J Biol Chem** 1996 Nov 8;271(45):28549-57

Characterization of TreR, the major regulator of the Escherichia coli trehalose system. Horlacher R, et al. **J Biol Chem** 1997 May 16;272(20):13026-32

Regulation of apoptosis by oncogenes. Green DR, et al. **J Cell Biochem** 1996 Jan;60(1):33-8 (25 ref.)

Genes that regulate apoptosis in the mouse thymus. Osborne BA, et al. **J Cell Biochem** 1996 Jan;60(1):18-22 (18 ref.)

BCL-2, a novel regulator of apoptosis. Park JR, et al. **J Cell Biochem** 1996 Jan;60(1):12-7 (35 ref.)

BCL-2 family proteins: regulators of cell death involved in the pathogenesis of cancer and resistance to therapy. Reed JC, et al. **J Cell Biochem** 1996 Jan;60(1):23-32 (55 ref.)

Identification of a cis-acting regulatory element conferring inducibility of the atrial natriuretic factor gene in acute pressure overload. Harsdorf R, et al. **J Clin Invest** 1997 Sep 1;100(5):1294-304

Specific organization of the negative response elements for retinoic acid and thyroid hormone receptors in keratin gene family. Radoja N, et al. **J Invest Dermatol** 1997 Oct; 109(4):566-72

Distinct mechanisms of action of the Lozenge locus in Drosophila eye and antennal development are suggested by the analysis of dominant enhancers. Gupta BP, et al. **J Neurogenet** 1995 Dec;10(3):137-51

Tissue-specific expression of a Ca(2+)-activated K+ channel is controlled by multiple upstream regulatory elements. Brenner R, et al. **J Neurosci** 1996 Mar 1; 16(5):1827-35

Multiple protein factors interact with the cis-regulatory elements of the proximal promoter in a cell-specific manner and regulate transcription of the dopamine beta-hydroxylase gene. Seo H, et al. **J Neurosci** 1996 Jul 1;16(13):4102-12

Selection for retroviral insertions into regulated genes. Gogos JA, et al. **J Virol** 1997 Feb;71(2):1644-50

The adeno-associated virus (AAV) Rep protein acts as both a repressor and an activator to regulate AAV transcription during a productive infection. Pereira DJ, et al. **J Virol** 1997 Feb;71(2):1079-88

Identification of preussin as a selective inhibitor for cell growth of the fission yeast ts mutants defective in Cdc2-regulatory genes. Kasahara K, et al. **Jpn J Antibiot** 1997 Mar;50(3):267-9

Expression of cell cycle-regulatory genes in HTLV-I-transformed T-cells and Tax1-immortalized T-cells. Akagi T, et al. **Leukemia** 1997 Apr;11 Suppl 3:25

Co-localization of the ketohexokinase and glucokinase regulator genes to a 500-kb region of chromosome 2p23. Hayward BE, et al. **Mamm Genome** 1996 Jun;7(6):454-8

Insertional mutation of the mouse Msx1 homeobox gene by an nlacZ reporter gene. Houzelstein D, et al. **Mech Dev** 1997 Jul;65(1-2):123-33

Control of Neisseria gonorrhoeae pilin gene expression by environmental factors: involvement of the pilA/pilB regulatory genes. Larribe M, et al. **Microbiology** 1997 May; 143 (Pt 5):1757-64

Divergence and conservation of the partitioning and global regulation functions in the central control region of the IncP plasmids RK2 and R751. Macartney DP, et al. **Microbiology** 1997 Jul;143 (Pt 7):2167-77

Identification by PCR of genes encoding multiple response regulators. Morel-Deville F, et al. **Microbiology** 1997 May; 143 (Pt 5):1513-20

Global regulation in Erwinia species by Erwinia carotovora rsmA, a homologue of Escherichia coli csrA: repression of secondary metabolites, pathogenicity and hypersensitive reaction. Mukherjee A, et al. **Microbiology** 1996 Feb;142 (Pt 2):427-34

Molecular analysis of mxbD and mxbM, a putative sensor-regulator pair required for oxidation of methanol in Methylobacterium extorquens AM1. Springer AL, et al. **Microbiology** 1997 May;143 (Pt 5):1737-44

The cydR gene product, required for regulation of cytochrome bd expression in the obligate aerobe Azotobacter vinelandii, is an Fnr-like protein. Wu G, et al. **Microbiology** 1997 Jul;143 (Pt 7):2197-207

Evolution of functional diversification of the paired box (Pax) DNA-binding domains. Balczarek KA, et al. **Mol Biol Evol** 1997 Aug;14(8):829-42

The 3' untranslated regions of chloroplast genes in Chlamydomonas reinhardtii do not serve as efficient transcriptional terminators. Rott R, et al. **Mol Gen Genet** 1996 Oct 28;252(6):676-83

Substrate induction and glucose repression of maltose utilization by Streptomyces coelicolor A3(2) is controlled by malR, a member of the lacI-galR family of regulatory genes. van Wezel GP, et al. **Mol Microbiol** 1997 Feb; 23(3):537-49

A Polycomb-group gene regulates homeotic gene expression in Arabidopsis [see comments] Goodrich J, et al.

Nature 1997 Mar 6;386(6620):44–51. Comment in: Nature 1997 Mar 6;385(6620):17.

Memorizing the floral ABC [news; comment] Jürgens G. **Nature** 1997 Mar 6;386(6620):17. Comment on: Nature 1997 Mar 6;385(6620):44–51.

Conserved elements in the 5' regulatory region of the amyloid precursor protein gene in primates. Adroer R, et al. **Neurosci Lett** 1997 May 2;226(3):203–6

Alterations in transcriptional regulation of proinflammatory and immunoregulatory cytokine expression by hemorrhage, injury, and critical illness. Abraham E. **New Horiz** 1996 May;4(2):184–93 (98 ref.)

Tissue-specific accumulation of MURB, a protein encoded by MuDR, the autonomous regulator of the Mutator transposable element family. Donlin MJ, et al. **Plant Cell** 1995 Dec;7(12):1989–2000

Determination of Arabidopsis floral meristem identity by AGAMOUS. Mizukami Y, et al. **Plant Cell** 1997 Mar; 9(3):393–408

The role of the COP/DET/FUS genes in light control of arabidopsis seedling development. Wei N, et al. **Plant Physiol** 1996 Nov;112(3):871–8 (46 ref.)

The traA gene of the Enterococcus faecalis conjugative plasmid pPD1 encodes a negative regulator for the pheromone response. Tanimoto K, et al. **Plasmid** 1996 Jul; 36(1):55–61

Gypsy retrotransposon as a tool for the in vivo analysis of the regulatory region of the optomotor-blind gene in Drosophila. Tsai SF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3837–41

A "master control" gene for fly eyes shares its power [news] Roush W. **Science** 1997 Jan 31;275(5300):618–9

Identifying the molecular control of T-cell death; on the hunt for killer genes. Wong B, et al. **Semin Immunol** 1997 Feb;9(1):7–16 (53 ref.)

Identification of cis-acting repressor activity within human immunodeficiency virus type 1 protease sequences. Huffman KM, et al. **Virology** 1997 Aug 4;234(2):253–60

[Genetic mapping of an additional regulatory locus of the riboflavin operon of Bacillus subtilis] Kreneva RA, et al. **Genetika** 1996 Dec;32(12):1623–8 (Eng. Abstr.) **(Rus)**

[Molecular cloning of regions of localization of the e(y)1 and e(y)2 genes in Drosophila melanogaster] Soldatov AV, et al. **Genetika** 1996 Dec;32(12):1714–6 (Eng. Abstr.) **(Rus)**

[Cloning of ribR, an additional regulatory gene of the Bacillus subtilis riboflavin operon] Solov'eva IM, et al. **Genetika** 1997 Jun;33(6):739–43 (Eng. Abstr.) **(Rus)**

[Effect of culture medium components on the accumulation of extracellular bacillary ribonucleases in culture fluid of recombinant strains of Escherichia coli] Gabdrakhmanova LA, et al. **Mikrobiologiia** 1996 Sep–Oct;65(5):599–606 (Eng. Abstr.) **(Rus)**

[The effect of noncanonical structures on the expression of chimeric genes in eukaryotic cells: in vivo study] Kraevskii VA. **Mol Biol (Mosk)** 1996 Sep–Oct;30(5):1086–95 **(Rus)**

DRUG EFFECTS

Environmental endocrinology: hidden, but potent ways of activating the estrogen receptor. Heufelder AE, et al. **Eur J Endocrinol** 1996 Dec;135(6):653–4 (7 ref.)

GENETICS

Pancreatic reg gene expression is inhibited during cellular differentiation. Zenilman ME, et al. **Ann Surg** 1997 Mar; 225(3):327–32

Multigene effects influencing each other. International Union Against Cancer Study Group on Basic and Clinical Cancer Research. Burger MM, et al. **Cancer** 1997 Jan 15; 79(2):416–9

Patterns of mutation in cancer cells. Meuth M. **Cancer Surv** 1996;28:33–46 (50 ref.)

Gene therapy for HIV infection. Morgan RA. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:41–4

Developmental regulation of Zbu1, a DNA-binding member of the SWI2/SNF2 family. Gong X, et al. **Dev Biol** 1997 Mar 15;183(2):166–82

The hardwiring of development: organization and function of genomic regulatory systems. Arnone MI, et al. **Development** 1997 May;124(10):1851–64 (119 ref.)

Isolation, genomic structure, and expression of human erythroid Krüppel-like factor (EKLF). Bieker JJ. **DNA Cell Biol** 1996 May;15(5):347–52

The amdA regulatory gene of Aspergillus nidulans: characterization of gain-of-function mutations and identification of binding sites for the gene product. Andrianopoulos A, et al. **Fungal Genet Biol** 1996 Feb; 21(1):50–63

Complementation of divergent mga genes in group A Streptococcus. Andersson G, et al. **Gene** 1996 Oct 10; 175(1–2):77–81

Identification of two Xenopus laevis genes, xMCM2 and xCDC46, with sequence homology to MCM genes involved in DNA replication. Miyake S, et al. **Gene** 1996 Oct 10;175(1–2):71–5

Analysis of DNA flanking the treA gene of Bacillus subtilis reveals genes encoding a putative specific enzyme IITre and a potential regulator of the trehalose operon. Schöck F, et al. **Gene** 1996 Oct 10;175(1–2):59–63

Identification of cis-acting elements involved in an alternative splicing of the amyloid precursor protein (APP) gene. Shibata A, et al. **Gene** 1996 Oct 10;175(1–2):203–8

A complex enhancer of the chicken beta A3/A1-crystallin gene depends on an AP-1-CRE element for activity. McDermott JB, et al. **Invest Ophthalmol Vis Sci** 1997 Apr; 38(5):951–9

Isolation and characterization of the lacA gene encoding beta-galactosidase in Bacillus subtilis and a regulator gene, lacR. Daniel RA, et al. **J Bacteriol** 1997 Sep;179(17):5636–8

Mutational characterization of promoter regions recognized by the Salmonella dublin virulence plasmid regulatory protein SpvR. Grob P, et al. **J Bacteriol** 1997 Sep; 179(17):5398–406

The aldA gene of Escherichia coli is under the control of at least three transcriptional regulators. Limón A, et al. **Microbiology** 1997 Jun;143 (Pt 6):2085–95

Disruption of the c/ebp alpha gene in adult mouse liver. Lee YH, et al. **Mol Cell Biol** 1997 Oct;17(10):6014–22

IRF-7, a new interferon regulatory factor associated with Epstein-Barr virus latency. Zhang L, et al. **Mol Cell Biol** 1997 Oct;17(10):5748–57

The acetate regulatory gene facB of Aspergillus nidulans encodes a Zn(II)2Cys6 transcriptional activator. Todd RB, et al. **Mol Gen Genet** 1997 May 20;254(5):495–504

IMMUNOLOGY

Nucleic acid vaccination with HIV regulatory genes: a combination of HIV-1 genes in separate plasmids induces strong immune responses. Hinkula J, et al. **Vaccine** 1997 Jun;15(8):874–8

PHYSIOLOGY

Interdependence between muscle differentiation and cell-cycle control. Maione R, et al. **Biochim Biophys Acta** 1997 Feb 22;1332(1):M19–30 (131 ref.)

Genetic alterations in leukemias and lymphomas: impressive progress and continuing complexity. Nowell PC. **Cancer Genet Cytogenet** 1997 Mar;94(1):13–9 (52 ref.)

PAX: developmental control genes in cell growth and differentiation. Stuart ET, et al. **Cell Growth Differ** 1996 Mar;7(3):405–12 (80 ref.)

Activators and repressors: making use of chromatin to regulate transcription. Wolffe AP, et al. **Genes Cells** 1997 May;2(5):291–302 (103 ref.)

Retinoic acid and methylation cis-regulatory elements control the mouse tissue non-specific alkaline phosphatase gene expression. Escalante-Alcalde D, et al. **Mech Dev** 1996 Jun;57(1):21–32

Human herpesvirus 6 (HHV-6) ORF-1 transactivating gene exhibits malignant transforming activity and its protein binds to p53. Kashanchi F, et al. **Oncogene** 1997 Jan 23; 14(3):359–67

GENES, REITERATED see **MULTIGENE FAMILY**

GENES, REPORTER

Sensitive in situ hybridization with catalyzed reporter deposition, streptavidin-Nanogold, and silver acetate autometallography: detection of single-copy human papillomavirus. Zehbe I, et al. **Am J Pathol** 1997 May; 150(5):1553–61

In situ color detection of alpha-L-arabinofuranosidase, a "no-background" reporter gene, with 5-bromo-3-indolyl-alpha-L-arabinofuranoside. Berlin W, et al. **Anal Biochem** 1996 Dec 1;243(1):171–5

Dampening of bait proteins in the two-hybrid system. Cormack RS, et al. **Anal Biochem** 1997 May 15;248(1):184–6

The development of beta-lactamase as a highly versatile genetic reporter for eukaryotic cells. Moore JT, et al. **Anal Biochem** 1997 May 1;247(2):203–9

Amy as a reporter gene for promoter activity in Nocardia lactamdurans: comparison of promoters of the cephamycin cluster. Chary VK, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):2977–82

Construction of luciferase reporter bacteriophage A511::luxAB for rapid and sensitive detection of viable Listeria cells. Loessner MJ, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1133–40

Upstream regions of rp L21 genes play a role in regulation of expression at the post-transcriptional level in E. histolytica and E. dispar. Moshitch-Moshkovitch S, et al. **Arch Med Res** 1997;28 Spec No:36–8

Low temperature enhancement of reporter genes expression directed by human immunodeficiency virus type 1 long terminal repeat. Chevrier-Miller M, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):695–703

Real-time imaging of transcription in living cells and tissues. White MR, et al. **Biochem Soc Trans** 1996 Aug;24(3):411S

Localisation of beta-globin reporter sequences to the perinuclear cytoplasm by myosin heavy chain and vimentin 3'untranslated regions. Wiseman JW, et al. **Biochem Soc Trans** 1996 May;24(2):188S

A thymocyte factor SATB1 suppresses transcription of stably integrated matrix-attachment region-linked reporter genes. Kohwi-Shigematsu T, et al. **Biochemistry** 1997 Oct 7; 36(40):12005–10

Green fluorescent protein as a reporter of gene expression in transgenic mice. Chiocchetti A, et al. **Biochim Biophys Acta** 1997 May 30;1352(2):193–202

Low-cost system for real-time monitoring of luciferase gene expression. Gailey PC, et al. **Biotechniques** 1997 Mar; 22(3):528–34

Dual luminescence-based reporter gene assay for luciferase and beta-galactosidase. Martin CS, et al. **Biotechniques** 1996 Sep;21(3):520–4

Optimized filter set and viewing conditions for the S65T mutant of GFP in living cells. Zylka MJ, et al. **Biotechniques** 1996 Aug;21(2):220–1, 224–6

Adenovirus-mediated expression of a reporter gene in thalamocortical cocultures. Wilkemeyer MF, et al. **Brain Res** 1995 Dec 12;703(1–2):129–38

Dexamethasone stimulates luciferase gene expression through the rat bone sialoprotein gene promoter in transgenic mice. Chen J, et al. **Connect Tissue Res** 1996;35(1–4):33–9

Engineered GFP as a vital reporter in plants. Chiu W, et al. **Curr Biol** 1996 Mar 1;6(3):325–30

Truncated-gene reporter system for studying the regulation of manganese peroxidase expression. Gettemy JM, et al. **Curr Genet** 1997 Jun;31(6):519–24

Enzyme-generated intracellular fluorescence for single-cell reporter gene analysis utilizing Escherichia coli beta-glucuronidase. Lorincz M, et al. **Cytometry** 1996 Aug 1;24(4):321–9

Green fluorescent protein/beta-galactosidase double reporters for visualizing Drosophila gene expression patterns. Timmons L, et al. **Dev Genet** 1997;20(4):338–47

APRT: a versatile in vivo resident reporter of local mutation and loss of heterozygosity. Stambrook PJ, et al. **Environ Mol Mutagen** 1996;28(4):471–82

The 5' regulatory region from the Drosophila pseudoobscura hsp82 gene results in a high level of reporter gene expression in Lucilia cuprina embryos. Coates CJ, et al. **Gene** 1996 Oct 10;175(1–2):199–201

Suicide plasmids containing promoterless reporter genes can simultaneously disrupt and create fusions to target genes of diverse bacteria. Kalogeraki VS, et al. **Gene** 1997 Mar 25;188(1):69–75

A new cat reporter gene vector designed for rapid and efficient cloning of PCR products. Krausz E, et al. **Gene** 1996 Oct 24;177(1–2):99–102

A sensitive reporter gene system using bacterial luciferase based on a series of plasmid cloning vectors compatible with derivatives of pBR322. Manen D, et al. **Gene** 1997 Feb 28;186(2):197–200

Probing the limits of expression levels by varying promoter strength and plasmid copy number in Saccharomyces cerevisiae [published erratum appears in Gene 1997 Feb 20;186(1):149] Nacken V, et al. **Gene** 1996 Oct 10; 175(1–2):253–60

High efficiency reporter gene transfection of vascular tissue in vitro and in vivo using a cationic lipid-DNA complex. Keogh MC, et al. **Gene Ther** 1997 Feb;4(2):162–71

Employment of the mdr1 promoter for the chemotherapy-inducible expression of therapeutic genes in cancer gene therapy. Walther W, et al. **Gene Ther** 1997 Jun;4(6):544–52

Direct gene transfer to mouse melanoma by intratumor injection of free DNA. Yang JP, et al. **Gene Ther** 1996 Jun;3(6):542–8

Retrofitting high molecular weight DNA cloned in P1: introduction of reporter genes, markers selectable in mammalian cells and generation of nested deletions. Chatterjee PK, et al. **Genet Anal** 1996 Jul;13(2):33–42

Transgene Coplacement and high efficiency site-specific recombination with the Cre/loxP system in Drosophila. Siegal ML, et al. **Genetics** 1996 Oct;144(2):715–26

Gene marking. Brenner M. **Hum Gene Ther** 1996 Oct 20; 7(16):1927–36 (54 ref.)

Herpes vector-mediated delivery of marker genes to disseminated central nervous system tumors. Kramm CM, et al. **Hum Gene Ther** 1996 Feb 10;7(3):291–300

Luminescent Salmonella strains as real time reporters of growth and recovery from sublethal injury in food. Chen J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):27–43

The lac-z reporter gene: a tool for in vitro studies of malignant glioma cell invasion. Garcia-Cabrera I, et al. **Invasion Metastasis** 1996;16(3):107–15

A vancomycin-inducible lacZ reporter system in Bacillus subtilis: induction by antibiotics that inhibit cell wall synthesis and by lysozyme. Ulijasz AT, et al. **J Bacteriol** 1996 Nov;178(21):6305–9

Specific inhibition of c-fos proto-oncogene expression by triple-helix-forming oligonucleotides. Lavrovsky Y, et al. **J Cell Biochem** 1996 May;61(2):301–9

Assessment of androgen receptor function in genital skin fibroblasts using a recombinant adenovirus to deliver an androgen-responsive reporter gene [published erratum appears in J Clin Endocrinol Metab 1997 Aug;82(8):2670] McPhaul MJ, et al. **J Clin Endocrinol Metab** 1997 Jun; 82(6):1944–8

Reporter gene constructs suggest that the Caenorhabditis elegans avermectin receptor beta-subunit is expressed solely in the pharynx. Laughton DL, et al. **J Exp Biol** 1997 May;200 (Pt 10):1509–14

Comparison of the human versus murine cytomegalovirus immediate early gene promoters for transgene expression by adenoviral vectors. Addison CL, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1653–61

Vectors based on maize streak virus can replicate to high copy numbers in maize plants. Shen WH, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):965–9

Detection and quantification of cyclosporine in body fluids

using an interleukin-2 reporter-gene assay. Wenner PR, et al. **J Immunol Methods** 1997 Feb 14;201(1):125-35
Utilization of the herpes simplex virus type 1 latency-associated regulatory region to drive stable reporter gene expression in the nervous system. Lachmann RH, et al. **J Virol** 1997 Apr;71(4):3197-207
Efficient long-term gene transfer into muscle tissue of immunocompetent mice by adeno-associated virus vector. Xiao X, et al. **J Virol** 1996 Nov;70(11):8098-108
Amplification, expression, and packaging of a foreign gene by giardiavirus in Giardia lamblia. Yu DC, et al. **J Virol** 1996 Dec;70(12):8752-7
CD4 deletion mutants evaluated for human immunodeficiency virus type 1 infectivity in a highly efficient system of expression and detection based on LTR-dependent reporter gene activation. Moir S, et al. **J Virol Methods** 1997 May;65(2):209-17
Using GCN4 as a reporter of eIF2 alpha phosphorylation and translational regulation in yeast. Dever TE. **Methods** 1997 Apr;11(4):403-17
Vectors with bidirectional reporter genes for studying divergent promoters. Jain VK. **Methods Enzymol** 1996; 273:319-31 (25 ref.)
Reporter systems. Groskreutz D, et al. **Methods Mol Biol** 1997;63:11-30 (88 ref.)
Use of secreted alkaline phosphatase as a reporter of gene expression in mammalian cells. Kain SR. **Methods Mol Biol** 1997;63:49-60
Detection of recombinant protein based on reporter enzyme activity: chloramphenicol acetyltransferase. Lee P, et al. **Methods Mol Biol** 1997;63:31-40
Reporter gene systems for assaying gene expression in yeast. Mount RC, et al. **Methods Mol Biol** 1996;53:239-48 (8 ref.)
Detection of beta-galactosidase and beta-glucuronidase using chemiluminescent reporter gene assays. Olesen CE, et al. **Methods Mol Biol** 1997;63:61-70
Chemiluminescent immunoassay for the detection of chloramphenicol acetyltransferase and human growth hormone reporter proteins. Olesen CE, et al. **Methods Mol Biol** 1997;63:71-6
Detection and isolation of recombinant protein based on binding affinity reporter. Maltose binding protein. Riggs P. **Methods Mol Biol** 1997;63:85-101
Detection and isolation of recombinant proteins based on binding affinity of reporter: protein A. Ståhl S, et al. **Methods Mol Biol** 1997;63:103-18
Use of an excision reporter plasmid to study the intracellular mobility of the conjugative transposon Tn916 in gram-positive bacteria. Celli J, et al. **Microbiology** 1997 Apr;143 (Pt 4):1253-61
Yeast-enhanced green fluorescent protein (yEGFP)a reporter of gene expression in Candida albicans. Cormack BP, et al. **Microbiology** 1997 Feb;143 (Pt 2):303-11
Isolation and characterization of a strong promoter element from the Streptomyces ghanaensis phage I19 using the gentamicin resistance gene (aacC1) of Tn 1696 as reporter. Labes G, et al. **Microbiology** 1997 May;143 (Pt 5):1503-12
Stable coexpression of a drug-resistance gene and a heterologous gene in an ancient parasitic protozoan Giardia lamblia. Yu DC, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):81-91
An Escherichia coli topB mutant increases deletion and frameshift mutations in the supF target gene. Uematsu N, et al. **Mutat Res** 1997 May 1;383(3):223-30
Cell-surface markers for assessing gene transfer into human hematopoietic cells [see comments] Phillips K, et al. **Nat Med** 1996 Oct;2(10):1154-6 (25 ref.). Comment in: Nat Med 1996 Dec;2(12):1280-1.
Mammalian cDNA and prokaryotic reporter sequences silence adjacent transgenes in transgenic mice. Clark AJ, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1009-14
Introduction of precise alterations into the mouse genome with high efficiency by stable tag-exchange gene targeting: implications for gene targeting in ES cells. Whyatt LM, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2381-8
Differential effects of phosphorylation of rat p53 on transactivation of promoters derived from different p53 responsive genes. Lohrum M, et al. **Oncogene** 1996 Dec 19;13(12):2527-39
Green-fluorescent protein fusions for efficient characterization of nuclear targeting. Grebenok RJ, et al. **Plant J** 1997 Mar;11(3):573-86
An expression vector encoding a lacZ reporter gene facilitates identification of stable, high-producing CHO cell clones. Grossman TH, et al. **Plasmid** 1997;37(2):155-8
A new reporter cell line to monitor HIV infection and drug susceptibility in vitro. Gervaix A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4653-8
A sensitive method for analyzing beta-galactosidase reporter gene expression in tissue sections of mouse embryos. Lazik A, et al. **Trends Genet** 1996 Nov;12(11):445-7
Similarities and differences among inner retinal neurons revealed by the expression of reporter transgenes controlled by Brn-3a, Brn-3b, and Brn-3c promotor sequences. Xiang M, et al. **Vis Neurosci** 1996 Sep-Oct;13(5):955-62
Identification of ASK10 as a multicopy activator of Skn7p-dependent transcription of a HIS3 reporter gene. Page N, et al. **Yeast** 1996 Mar 15;12(3):267-72
[Metallonucleoliposome complexes as a vehicle for gene delivery to mouse skeletal muscles in vivo] Kovalenko DV, et al. **Genetika** 1996 Sep;32(9):1299-301 (Eng. Abstr.) **(Rus)**
[Transfer of the functional genes into eucaryotic cells by neutral phospholipid liposomes] Zhdanov RI, et al. **Vopr Med Khim** 1997 Jul-Aug;43(4):212-6 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Reporter gene technology to assess activity of antimycobacterial agents in macrophages. Arain TM, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1542-4
Disruption of transcription in vitro and gene expression in vivo by DNA adducts derived from a benzo[a]pyrene diol epoxide located in heterologous sequences. Butler AP, et al. **Carcinogenesis** 1997 Feb;18(2):239-44
Regulation of dioxin receptor function by omeprazole. Dzeletovic N, et al. **J Biol Chem** 1997 May 9; 272(19):12705-13
A rapid and sensitive high throughput reporter gene assay for estrogenic effects of environmental contaminants. Edmunds JS, et al. **Neurotoxicology** 1997;18(2):525-32
Glyoxal, a major product of DNA oxidation, induces mutations at G:C sites on a shuttle vector plasmid replicated in mammalian cells. Murata-Kamiya N, et al. **Nucleic Acids Res** 1997 May 15;25(10):1897-902

GENETICS

Comparison of ELISA and TLC for the analysis of promoter activity when using the CAT reporter gene. Reifel-Miller AE, et al. **Biotechniques** 1996 Dec;21(6):1033-6
Optimisation of the BgaB reporter system: determination of transcriptional regulation of stress responsive genes in Bacillus subtilis. Schrögel O, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):237-43
Integrative vector for constructing single-copy translational fusions between regulatory regions of Bacillus subtilis and the bgaB reporter gene encoding a heat-stable beta-galactosidase. Stoss O, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):49-54
Transduction of human hematopoietic cells and cell lines using a retroviral vector containing a modified murine CD4 reporter gene. Bauer TR Jr, et al. **Hum Gene Ther** 1997 Feb 10;8(3):243-52
Green fluorescent protein retroviral vectors: low titer and high recombination frequency suggest a selective disadvantage. Hanazono Y, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1313-9
Detection of HIV-1 infection with a green fluorescent protein reporter system. Dorsky DI, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Dec 1;13(4):308-13
Naturally occurring mutations in the human 5-lipoxygenase gene promoter that modify transcription factor binding and reporter gene transcription. In KH, et al. **J Clin Invest** 1997 Mar 1;99(5):1130-7
Two separate mechanisms for ligand-independent activation of the estrogen receptor. El-Tanani MK, et al. **Mol Endocrinol** 1997 Jun;11(7):928-37
Transient expression of luciferase reporter gene after lipofection in oyster (Crassostrea gigas) primary cell cultures. Boulo V, et al. **Mol Mar Biol Biotechnol** 1996 Sep;5(3):167-74
DC-Chol liposome-mediated gene transfer in rat spinal cord. Yang K, et al. **Neuroreport** 1997 Jul 7;8(9-10):2355-8

IMMUNOLOGY

A highly precise reporter gene bioassay for type I interferon. Canosi U, et al. **J Immunol Methods** 1996 Nov 29; 199(1):69-76

PHYSIOLOGY

Localization of ligand-binding domains of human corticotropin-releasing factor receptor: a chimeric receptor approach. Liaw CW, et al. **Mol Endocrinol** 1997 Jun; 11(7):980-5
Analysis of neurotrophin-3 expression using the lacZ reporter gene suggests its local mode of neurotrophic activity. Tojo H, et al. **Neuroscience** 1996 Mar;71(1):221-30
Is there a negative TRE in the luciferase reporter cDNA? Maia AL, et al. **Thyroid** 1996 Aug;6(4):325-8

GENES, RETINOBLASTOMA

Expression of EVI1 and the Retinoblastoma genes in acute myelogenous leukemia with t(3;13)(q26;q13-14). Yufu Y, et al. **Am J Hematol** 1996 Sep;53(1):30-4
Constitutively methylated CpG dinucleotides as mutation hot spots in the retinoblastoma gene (RB1). Mancini D, et al. **Am J Hum Genet** 1997 Jul;61(1):80-7
The role of the tumor suppressor genes p53 and Rb-1 in development and cell death. Clarke AR. **Birth Defects Orig Artic Ser** 1996;30(1):261-8 (34 ref.)
Altered expression of the retinoblastoma tumor-suppressor gene in leukemic cell lines inhibits induction of differentiation but not G1-accumulation. Bergh G, et al. **Blood** 1997 Apr 15;89(8):2938-50
Detection of trisomy 12 and Rb-deletion in CD34+ cells of patients with B-cell chronic lymphocytic leukemia. Gahn B, et al. **Blood** 1997 Jun 15;89(12):4275-81
Hypermethylation in the retinoblastoma gene is associated with unilateral, sporadic retinoblastoma. Ohtani-Fujita N, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):43-9
Recent insights into the functions of the retinoblastoma susceptibility gene product. Kaelin WG Jr. **Cancer Invest** 1997;15(3):243-54 (183 ref.)
Retinoblastoma gene deficiency has mitogenic but not tumorigenic effects on erythropoiesis. Hu N, et al. **Cancer Res** 1997 Sep 15;57(18):4123-9
Extensive DNA methylation spanning the Rb promoter in retinoblastoma tumors. Stirzaker C, et al. **Cancer Res** 1997 Jun 1;57(11):2229-37
Retinoblastoma gene in malignancy. Pagliaro LC. **Cancer Treat Res** 1996;84:261-77 (92 ref.)
Loss of heterozygosity studies at the retinoblastoma and breast cancer susceptibility (BRCA2) loci in pituitary, parathyroid, pancreatic and carcinoid tumours. Pearce SH, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):195-200
Loss of heterozygosity and microsatellite instability at the retinoblastoma locus in osteosarcomas. Belchis DA, et al. **Diagn Mol Pathol** 1996 Sep;5(3):214-9
Plant cells contain a novel member of the retinoblastoma family of growth regulatory proteins. Xie Q, et al. **EMBO J** 1996 Sep 16;15(18):4900-8
Constitutional nonsense germline mutations in the RB1 gene detected in patients with early onset unilateral retinoblastoma. Cowell JK, et al. **Eur J Cancer** 1996 Sep; 32A(10):1749-52
ATF site of human RB gene promoter is a responsive element of myogenic differentiation. Okuyama Y, et al. **FEBS Lett** 1996 Nov 18;397(2-3):219-24
Alterations of the retinoblastoma gene in human prostate adenocarcinoma. Tricoli JV, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):108-14
The retinoblastoma gene family and its role in proliferation, differentiation and development. De Luca A, et al. **Histol Histopathol** 1996 Oct;11(4):1029-34 (65 ref.)
Quantification of the paternal allele bias for new germline mutations in the retinoblastoma gene. Dryja TP, et al. **Hum Genet** 1997 Sep;100(3-4):446-9
Loss of retinoblastoma gene function and heterozygosity at the RB locus in renal cortical neoplasms. Lai S, et al. **Hum Pathol** 1997 Jun;28(6):693-7
Deletion of three distinct regions on chromosome 13q in human non-small-cell lung cancer. Tamura K, et al. **Int J Cancer** 1997 Feb 20;74(1):45-9
Amplification of the RB1.20 polymorphism in single spermatozoa. Girardet A, et al. **J Assist Reprod Genet** 1997 Mar;14(3):177-9
Specific inhibition of c-fos proto-oncogene expression by triple-helix-forming oligonucleotides. Lavrovsky Y, et al. **J Cell Biochem** 1996 May;61(2):301-9
Alterations in the tumor suppressor genes p53, RB, p16/MTS1, and p15/MTS2 in human pancreatic cancer and hepatoma cell lines. Kaino M. **J Gastroenterol** 1997 Feb;32(1):40-6
Loss of heterozygosity on chromosome 10, 13q(Rb), 17p, and p53 gene mutations in human brain gliomas. Lee SH, et al. **J Korean Med Sci** 1995 Dec;10(6):442-8
Cyclin D1 and retinoblastoma gene expression in human breast carcinoma: correlation with tumour proliferation and oestrogen receptor status. Jares P, et al. **J Pathol** 1997 Jun; 182(2):160-6
Investigation of the RB-1 tumour suppressor gene in a United Kingdom series of non-Hodgkin's lymphomas. Grierson AJ, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):353-63
Biphenotypic blast crisis of chronic myelogenous leukemia: abnormalities of p53 and retinoblastoma genes. Ishikura H, et al. **Leuk Lymphoma** 1997 May;25(5-6):573-8
The retinoblastoma susceptibility gene RB-1 in multiple myeloma. Juge-Morineau N, et al. **Leuk Lymphoma** 1997 Jan;24(3-4):229-37 (71 ref.)
Extensive analysis of the retinoblastoma gene in adult T cell leukemia/lymphoma (ATL). Hatta Y, et al. **Leukemia** 1997 Jul;11(7):984-9
Regulation and function of the cyclin-dependent kinase inhibitor p16CDKN2. Peters G, et al. **Leukemia** 1997 Apr; 11 Suppl 3:352-5
Tumor suppressor gene alteration in adult acute lymphoblastic leukemia (ALL). Analysis of retinoblastoma (Rb) and p53 gene expression in lymphoblasts of patients with de novo, relapsed, or refractory ALL treated in Southwest Oncology Group studies. Tsai T, et al. **Leukemia** 1996 Dec;10(12):1901-10
A deletion polymorphism due to Alu-Alu recombination in intron 2 of the retinoblastoma gene: association with human gliomas. Rothberg PG, et al. **Mol Carcinog** 1997 Jun; 19(2):69-73
The retinoblastoma gene family is differentially expressed during embryogenesis. Jiang Z, et al. **Oncogene** 1997 Apr 17;14(15):1789-97
Induction of apoptosis in Mv1Lu cells by expression of competitive RB1 mutants. Whitaker LL, et al. **Oncogene** 1997 Aug 28;15(9):1069-77
Increased histone H1 phosphorylation and relaxed chromatin structure in Rb-deficient fibroblasts. Herrera RE, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11510-5
Loss of heterozygosity induced by a chromosomal double-strand break. Moynahan ME, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):8988-93
Rb and p53 gene deletions in lung adenocarcinomas from irradiated and control mice. Zhang Y, et al. **Radiat Res** 1997 Jul;148(1):81-9
Adenoviral-mediated gene transfer of a constitutively active retinoblastoma gene inhibits human pancreatic tumor cell

proliferation. Simeone DM, et al. **Surgery** 1997 Aug; 122(2):428–33; discussion 433–4

[RB gene expression in gastrointestinal tract] Monden T, et al. **Nippon Rinsho** 1996 Apr;54(4):965–71 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Preparation of a retinoblastoma gene with a mutation in the C–domain and assessment of growth–suppressing activity of its product] Popov BV, et al. **Mol Biol (Mosk)** 1997 Mar–Apr;31(2):324–31 **(Rus)**

GENETICS

Deletion of RB exons 24 and 25 causes low–penetrance retinoblastoma. Bremner R, et al. **Am J Hum Genet** 1997 Sep;61(3):556–70

Constitutional RB1–gene mutations in patients with isolated unilateral retinoblastoma [see comments] Lohmann DR, et al. **Am J Hum Genet** 1997 Aug;61(2):282–94. Comment in: Am J Hum Genet 1997 Aug;61(2):279–81.

Abnormal expression of CCND1 and RB1 in resection margin epithelia of lung cancer patients. Betticher DC, et al. **Br J Cancer** 1997;75(12):1761–8

Alterations of p53 and Rb genes in a novel human GM–CSF–dependent myeloid cell line (OHN–GM) established from therapy–related leukaemia. Nagai M, et al. **Br J Haematol** 1997 Aug;98(2):392–8

Two distinct commonly deleted regions on chromosome 13q suggest involvement of BRCA2 and retinoblastoma genes in sporadic breast carcinomas. Tsukamoto K, et al. **Cancer** 1996 Nov 1;78(9):1929–34

Retinoblastoma binding factor 1 site in the core promoter region of the human RB gene is activated by hGABP/E4TF1. Sowa Y, et al. **Cancer Res** 1997 Aug 1; 57(15):3145–8

Molecular genetic and immunohistochemical analysis of the tumor suppressor genes Rb and p53 in palmar and aggressive fibromatosis. Muller E, et al. **Diagn Mol Pathol** 1996 Sep;5(3):194–200

Loss of Rb activates both p53–dependent and independent cell death pathways in the developing mouse nervous system. Macleod KF, et al. **EMBO J** 1996 Nov 15; 15(22):6178–88

Expression and localization of the retinoblastoma gene during radiation–induced apoptosis in neonatal rat kidney. Gobé GC, et al. **Exp Cell Res** 1997 Sep 15;235(2):354–61

Analysis of the Rb gene and cyclin–dependent kinase 4 inhibitor genes (p16INK4 and p15INK4B) in human ovarian carcinoma cell lines. Yaginuma Y, et al. **Exp Cell Res** 1997 Jun 15;233(2):233–9

pRb controls proliferation, differentiation, and death of skeletal muscle cells and other lineages during embryogenesis. Zacksenhaus E, et al. **Genes Dev** 1996 Dec 1;10(23):3051–64

Promoter–independent loss of mRNA and protein of the Rb gene in a human hepatocellular carcinoma. Hada H, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1185–9

Loss of heterozygosity and microsatellite alterations in p53 and RB genes in adenoid cystic carcinoma of the salivary glands. Yamamoto Y, et al. **Hum Pathol** 1996 Nov; 27(11):1204–10

The retinoblastoma gene: its role in cell cycle and cancer. Giordano A, et al. **In Vivo** 1996 Mar–Apr;10(2):223–7 (71 ref.)

Expression of epidermal growth factor receptor and human papillomavirus E6/E7 proteins in cervical carcinoma cells [see comments] Hu G, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1271–6. Comment in: J Natl Cancer Inst 1997 Sep 3;89(17):1243–6.

Mutational analysis of the p53 and K–ras genes and allelotype study of the Rb–1 gene for investigating the pathogenesis of combined hapatocellular–cholangiocellular carcinomas. Imai Y, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1056–62

The loss of heterozygosity in retinoblastoma and p53 suppressor genes as a prognostic indicator for head and neck cancer. Gleich LL, et al. **Laryngoscope** 1996 Nov; 106(11):1378–81

Prognostic factors associated with loss of heterozygosity at the RB1 locus in retinoblastoma. Munier FL, et al. **Ophthalmic Genet** 1997 Mar;18(1):7–12

Loss of heterozygosity in the retinoblastoma tumor suppressor gene in skull base chordomas and chondrosarcomas. Eisenberg MB, et al. **Surg Neurol** 1997 Feb;47(2):156–60; discussion 160–1

The polymerase chain reaction (PCR) in the routine genetic characterization of retinoblastoma: a tool for the clinical laboratory. Mastrangelo D, et al. **Surv Ophthalmol** 1997 Jan–Feb;41(4):331–40 (47 ref.)

A linkage analysis in two families with bilateral retinoblastoma. Emre S, et al. **Turk J Pediatr** 1996 Oct–Dec;38(4):413–7

[Epidermoid carcinoma of the cervix uteri: molecular abnormalities of p53 and rb genes] Wistuba I, et al. **Rev Med Chil** 1996 May;124(5):553–60 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Adenovirus–mediated retinoblastoma gene therapy suppresses spontaneous pituitary melanotroph tumors in Rb+/– mice. Riley DJ, et al. **Nat Med** 1996 Dec; 2(12):1316–21

Expression of the retinoblastoma (RB) tumor suppressor gene inhibits tumor cell invasion in vitro. Li J, et al. **Oncogene** 1996 Dec 5;13(11):2379–86

Genes in the RB pathway and their knockout in mice. Lin SC, et al. **Semin Cancer Biol** 1996 Oct;7(5):279–89 (73 ref.)

GENES, REV

Molecular studies of visna virus gene expression: analysis of envelope gene expression in transgenic sheep. Clements JE, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):421–3 (65 ref.)

A sequence comparison of the HIV type 1 rev trans–activator from rapid– and slow–progressor infected infants and children. Wade N, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):845–7

The HIV–1 regulatory genes tat and rev as targets for gene therapy. Caputo A, et al. **Antibiot Chemother** 1996; 48:205–16

Inhibition of HIV replication by immunoliposomal antisense oligonucleotide. Selvam MP, et al. **Antiviral Res** 1996 Dec; 33(1):11–20

Inhibition of human immunodeficiency virus–1 (HIV–1) replication after transduction of granulocyte colony–stimulating factor–mobilized CD34+ cells from HIV–1–infected donors using retroviral vectors containing anti–HIV–1 genes. Bauer G, et al. **Blood** 1997 Apr 1; 89(7):2259–67

Hematopoietic stem cell–based gene therapy for acquired immunodeficiency syndrome: efficient transduction and expression of RevM10 in myeloid cells in vivo and in vitro. Su L, et al. **Blood** 1997 Apr 1;89(7):2283–90

Gene therapy for AIDS using retroviral mediated gene transfer to deliver HIV–1 antisense TAR and transdominant Rev protein genes to syngeneic lymphocytes in HIV–1 infected identical twins. Morgan RA, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1281–306

RevM10–expressing T cells derived in vivo from transduced human hematopoietic stem–progenitor cells inhibit human immunodeficiency virus replication. Bonyhadi ML, et al. **J Virol** 1997 Jun;71(6):4707–16

Characterization of Rev function using subgenomic and genomic constructs in T and COS cells. Favaro JP, et al. **Virology** 1997 Feb 3;228(1):29–38

Identification of cis–acting repressor activity within human immunodeficiency virus type 1 protease sequences. Huffman KM, et al. **Virology** 1997 Aug 4;234(2):253–60

GENETICS

Studies on the effect of the combined expression of anti–tat and anti–rev genes on HIV–1 replication. Caputo A, et al. **Gene Ther** 1997 Apr;4(4):288–95

IMMUNOLOGY

Immune responses to the HIV rev regulatory gene. Wahren B, et al. **Antibiot Chemother** 1996;48:105–12

GENES, REX see **GENES, PX**

GENES, SOR see **GENES, VIF**

GENES, SPLICED see **DNA, RECOMBINANT**

GENES, SPLIT see **GENES**

GENES, SRC

see related

SRC HOMOLOGY DOMAINS

Thrombin stimulates association of src homology domain containing adaptor protein Nck with pp125FAK. Choudhury GG, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F295–300

Deregulated expression and function of CFTR and Cl– secretion after activation of the Ras and Src/PyMT pathways in Caco–2 cells. Davenport SE, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):663–72

Egr family member proteins are involved in the activation of the cathepsin L gene in v–src–transformed cells. Ishidoh K, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):665–9

RalA interacts directly with the Arf–responsive, PIP2–dependent phospholipase D1. Luo JQ, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):854–9

Transformation of Rat–1 fibroblasts with the v–src oncogene induces inositol 1,4,5–trisphosphate 3–kinase expression. Woodring PJ, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):73–80

Down–regulation of cytokeratin 14 gene expression by the polyoma virus middle T antigen is dependent on c–Src association but independent of full transformation in rat liver nonparenchymal epithelial cells. Royal I, et al. **Cell Growth Differ** 1996 Jun;7(6):737–43

Proximal promoter region of the junB gene mediates attenuation of serum inducibility in Src–transformed cells. Yu CL, et al. **Cell Growth Differ** 1995 Dec;6(12):1513–21

High–level expression of human c–Src can cause a spherical morphology without loss of anchorage–dependent growth of NIH 3T3 cells. Kato G, et al. **FEBS Lett** 1997 Jul 14; 411(2–3):317–21

Src activation in malignant and premalignant epithelia of Barrett's esophagus. Kumble S, et al. **Gastroenterology** 1997 Feb;112(2):348–56

The LTR, v–src, LTR provirus in H–19 hamster tumor cell line is integrated adjacent to the negative regulatory region. Machoň O, et al. **Gene** 1996 Sep 26;174(1):9–17

Transcriptional regulation of N–acetylglucosaminyltransferase V by the src oncogene. Buckhaults P, et al. **J Biol Chem** 1997 Aug 1; 272(31):19575–81

Constitutive activation of JAK1 in Src–transformed cells. Campbell GS, et al. **J Biol Chem** 1997 Jan 31;272(5):2591–4

The proto–oncogene product p120(cbl) links c–Src and phosphatidylinositol 3'–kinase to the integrin signaling pathway. Ojaniemi M, et al. **J Biol Chem** 1997 Feb 7; 272(6):3780–7

Src phosphorylates the insulin–like growth factor type I receptor on the autophosphorylation sites. Requirement for transformation by src. Peterson JE, et al. **J Biol Chem** 1996 Dec 6;271(49):31562–71

Association between v–Src and protein kinase C delta in v–Src–transformed fibroblasts. Zang Q, et al. **J Biol Chem** 1997 May 16;272(20):13275–80

Stimulation of cell migration by overexpression of focal adhesion kinase and its association with Src and Fyn. Cary LA, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1787–94

Insulin–like growth factor I receptor signaling in transformation by src oncogenes. Valentinis B, et al. **Mol Cell Biol** 1997 Jul;17(7):3744–54

Overexpression of c–src and n–src in the developing Xenopus retina differentially impairs axonogenesis. Worley TL, et al. **Mol Cell Neurosci** 1997;9(4):276–92

Activation of the focal adhesion kinase signal transduction pathway in cervical carcinoma cell lines and human genital epithelial cells immortalized with human papillomavirus type 18. McCormack SJ, et al. **Oncogene** 1997 Jul 17; 15(3):265–74

Development and malignant progression of astrocytomas in GFAP–v–src transgenic mice. Weissenberger J, et al. **Oncogene** 1997 May 1;14(17):2005–13

[Relationship between the express product of src gene (pp60c–src) and the initiation of gastric carcinoma] Wang X, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar; 27(1):71–4 (Eng. Abstr.) **(Chi)**

GENETICS

Transient expression of lyn gene in Purkinje cells during cerebellar development. Chen S, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):140–6

Activation of extracellular signal–regulated kinase (ERK) by mitogenic stimuli is repressed in v–Src–transformed cells. Stofega MR, et al. **Cell Growth Differ** 1997 Jan;8(1):113–9

A new regulatory protein, KSRP, mediates exon inclusion through an intronic splicing enhancer. Min H, et al. **Genes Dev** 1997 Apr 15;11(8):1023–36

The polypyrimidine tract binding protein binds upstream of neural cell–specific c–src exon N1 to repress the splicing of the intron downstream. Chan RC, et al. **Mol Cell Biol** 1997 Aug;17(8):4667–76

Phenotypic changes induced by wild type and variant c–src genes carrying C–terminal sequence alterations. Yatsula BA, et al. **Oncogene** 1996 Dec 19;13(12):2717–25

PHYSIOLOGY

Activation of extracellular signal–regulated kinase (ERK) by mitogenic stimuli is repressed in v–Src–transformed cells. Stofega MR, et al. **Cell Growth Differ** 1997 Jan;8(1):113–9

GENES, STRUCTURAL

Multiple sclerosis: re–expression of a developmental gene in chronic lesions correlates with remyelination. Capello E, et al. **Ann Neurol** 1997 Jun;41(6):797–805

Application of a dicistronic mRNA expression vector to antisense RNA expression in mammalian cells. Yamauchi Y, et al. **Antisense Nucleic Acid Drug Dev** 1996 Winter; 6(4):305–9

A greater variability in the 3' flanking region of the IL–6 gene in patients with systemic lupus erythematosus (SLE). Linker–Israeli M, et al. **Autoimmunity** 1996;23(3):199–209

Identification of two closely related genes, inducible and noninducible carbonyl reductases in the rat ovary. Aoki H, et al. **Biochem Biophys Res Commun** 1997 Jan 23; 230(3):518–23

Mutations in the ROMK gene in antenatal Bartter syndrome are associated with impaired K+ channel function. Derst C, et al. **Biochem Biophys Res Commun** 1997 Jan 23; 230(3):641–5

Identification of glucose–regulated genes in human mesangial cells by mRNA differential display. Holmes DI, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):179–84

Identification of cis–acting DNA elements of the human gamma–glutamylcysteine synthetase heavy subunit gene. Tomonari A, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):522–7

Polymorphism and structure of the gene coding for the alpha 1 subunit of the Artemia franciscana Na/K–ATPase. García–Sáez A, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):509–18

Structure and expression of a cluster of glutathione S–transferase genes from a marine fish, the plaice (Pleuronectes platessa). Leaver MJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):405–12

Isolation and characterization of the androgen–dependent mouse cysteine–rich secretory protein–1 (CRISP–1) gene.

Schwidetzky U, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):325–32

Structure and alternative promoters of the mouse glutamic acid decarboxylase 67 gene. Yanagawa Y, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):573–8

Organization of the human beta-1,2-N-acetylglucosaminyltransferase I gene (MGAT1), which controls complex and hybrid N-glycan synthesis. Yip B, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):465–74

Transcription initiation from TATA-less promoters within eukaryotic protein-coding genes. Smale ST. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):73–88 (105 ref.)

RH gene structure: reassignment of two exon–exon junctions [letter; comment] Cherif-Zahar B, et al. **Blood** 1997 Jun 15;89(12):4661–2. Comment on: Blood 1996 Sep 15;88(6):2326–33.

Identification of a serpin specifically expressed in multipotent and bipotent hematopoietic progenitor cells and in activated T cells. Hampson IN, et al. **Blood** 1997 Jan 1; 89(1):108–18

TRA1, a novel mRNA highly expressed in leukemogenic mouse monocytic sublines but not in nonleukemogenic sublines. Kasukabe T, et al. **Blood** 1997 Apr 15; 89(8):2975–85

Molecular cloning and characterization of a cDNA, CHEMR1, encoding a chemokine receptor with a homology to the human C–C chemokine receptor, CCR-4. Youn BS, et al. **Blood** 1997 Jun 15;89(12):4448–60

Genomic structure, chromosomal localization, start of transcription, and tissue expression of the human p40-phox, a new component of the nicotinamide adenine dinucleotide phosphate-oxidase complex. Zhan S, et al. **Blood** 1996 Oct 1;88(7):2714–21

ARPP-21: murine gene structure and promoter identification of a neuronal phosphoprotein enriched in the limbic striatum. Ivkovic S, et al. **Brain Res** 1996 Feb 12; 709(1):10–6

Activation of a novel gene in 3q21 and identification of intergenic fusion transcripts with ecotropic viral insertion site I in leukemia. Pekarsky Y, et al. **Cancer Res** 1997 Sep 15;57(18):3914–9

Sterol resistance in CHO cells traced to point mutation in SREBP cleavage-activating protein. Hua X, et al. **Cell** 1996 Nov 1;87(3):415–26

Herpes simplex virus-1 entry into cells mediated by a novel member of the TNF/NGF receptor family. Montgomery RI, et al. **Cell** 1996 Nov 1;87(3):427–36

Genomic organization of the mouse beta 1 gene: conservation of the beta 1D but not of the beta 1B and beta 1C integrin splice variants. Baudoin C, et al. **Cell Adhes Commun** 1996 Jul;4(1):1–11

Heterochromatin and ribosomal genes in Asellus aquaticus (Crust. Isop.). Barzotti R, et al. **Chromosome Res** 1996 Apr; 4(3):177–81

Expression of the somatostatin gene in human astrocytoma cell lines. Mercure L, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):151–5

Association analysis of six candidate genes in a sample of Australian hypertensive patients. Huggard PR, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):454–6

Re-evaluation of the SA gene in spontaneously hypertensive and Wistar-Kyoto rats. Ishinaga Y, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):18–22

Gene structure prediction using information on homologous protein sequence. Rogozin IB, et al. **Comput Appl Biosci** 1996 Jun;12(3):161–70

Six antimicrobial peptide genes of the cathelicidin family map to bovine chromosome 22q24 by fluorescence in situ hybridization. Castiglioni B, et al. **Cytogenet Cell Genet** 1996;75(4):240–2

Complete coding sequence, exon/intron arrangement and chromosome location of ZNF45, a KRAB-domain-containing gene. Constantinou Deltas C, et al. **Cytogenet Cell Genet** 1996;75(4):230–3

Assignment of the gene for a ubiquitin-conjugating enzyme (UBE2I) to human chromosome band 16p13.3 by in situ hybridization. Tachibana M, et al. **Cytogenet Cell Genet** 1996;75(4):222–3

Assignment of the human proprotein convertase gene PCSK5 to chromosome 9q21.3. van de Loo JW, et al. **Cytogenet Cell Genet** 1996;75(4):227–9

Genomic organization of the mouse fertilin beta gene that encodes an ADAM family protein active in sperm-egg fusion. Cho C, et al. **Dev Genet** 1997;20(4):320–8

Temporal and spatial expression of an intestinal Na+/PO4 3- cotransporter correlates with epithelial transformation during thyroid hormone-dependent frog metamorphosis. Ishizuya-Oka A, et al. **Dev Genet** 1997;20(1):53–66

The identification of genes with unique and essential functions in the development of the zebrafish, Danio rerio. Haffter P, et al. **Development** 1996 Dec;123:1–36

dino and mercedes, two genes regulating dorsal development in the zebrafish embryo. Hammerschmidt M, et al. **Development** 1996 Dec;123:95–102

Genes involved in forebrain development in the zebrafish, Danio rerio. Heisenberg CP, et al. **Development** 1996 Dec; 123:191–203

Genes establishing dorsoventral pattern formation in the zebrafish embryo: the ventral specifying genes. Mullins MC, et al. **Development** 1996 Dec;123:81–93

The human p167 gene encodes a unique structural protein that contains centrosomin A homology and associates with a multicomponent complex. Scholler JK, et al. **DNA Cell Biol** 1997 Apr;16(4):515–31

p619, a giant protein related to the chromosome condensation regulator RCC1, stimulates guanine nucleotide exchange on ARF1 and Rab proteins [published erratum appears in EMBO J 1996 Oct 15;15(20):5738] Rosa JL, et al. **EMBO J** 1996 Aug 15;15(16):4262–73

PIG-B, a membrane protein of the endoplasmic reticulum with a large lumenal domain, is involved in transferring the third mannose of the GPI anchor. Takahashi M, et al. **EMBO J** 1996 Aug 15;15(16):4254–61

The subunit f of mitochondrial yeast ATP synthase--characterization of the protein and disruption of the structural gene ATP17. Spannagel C, et al. **Eur J Biochem** 1997 Aug 1;247(3):1111–7

Buffon's needle statistics are not applicable to calculate the mutation rate or the number of structural genes in the human genome [letter; comment] Vickers M. **Exp Hematol** 1996 Sep;24(11):1272–4. Comment on: Exp Hematol 1996 Feb;24(3):403–5.

A human gene encoding morphine modulating peptides related to NPFF and FMRFamide. Perry SJ, et al. **FEBS Lett** 1997 Jun 16;409(3):426–30

Structural features of the gene encoding human muscle type carnitine palmitoyltransferase I. Yamazaki N, et al. **FEBS Lett** 1997 Jun 16;409(3):401–6

Identification of a new member (ZNF183) of the Ring finger gene family in Xq24–25. Frattini A, et al. **Gene** 1997 Jun 19;192(2):291–8

Human aldehyde dehydrogenase genes, ALDH7 and ALDH8: genomic organization and gene structure comparison. Hsu LC, et al. **Gene** 1997 Apr 11;189(1):89–94

Cloning and characterization of a novel gene, WS-3, in human chromosome 8p11–p12. Ichikawa K, et al. **Gene** 1997 Apr 21;189(2):277–87

The ovine SOX2 gene: sequence, chromosomal localization and gonadal expression. Payen E, et al. **Gene** 1997 Apr 11;189(1):143–7

Analysis of genes for human snRNP Sm-D1 protein and identification of the promoter sequence which shows segmental homology to the promoters of Sm-E and U1 snRNA genes. Sun D, et al. **Gene** 1997 Apr 21; 189(2):245–54

The mouse uracil-DNA glycosylase gene: isolation of cDNA and genomic clones and mapping ung to mouse chromosome 5. Svendsen PC, et al. **Gene** 1997 Apr 21; 189(2):175–81

Insertional mutagenesis in zebrafish identifies two novel genes, pescadillo and dead eye, essential for embryonic development [see comments] Allende ML, et al. **Genes Dev** 1996 Dec 15;10(24):3141–55. Comment in: Genes Dev 1996 Dec 15;10(24):3077–80.

PCR analysis of insertion site specificity, transcription, and structural uniformity of the Lepidopteran transposable element IFP2 in the TN-368 cell genome. Elick TA, et al. **Genetica** 1996 Mar;97(2):127–39

Complete sequencing of the murine USF gene and comparison of its genomic organization to that of mFIP/USF2. Aperlo C, et al. **Genomics** 1996 Nov 1; 37(3):337–44

Assignment of the human FAC1 gene to chromosome 17q24 by fluorescence in situ hybridization. Bowser R. **Genomics** 1996 Dec 15;38(3):455–7

Isolation of the murine Nbr1 gene adjacent to the murine Brca1 gene. Chambers JA, et al. **Genomics** 1996 Dec 15; 38(3):305–13

Isolation, sequencing, and mapping of the human homologue of the yeast transcription factor, SPT5. Chiang PW, et al. **Genomics** 1996 Dec 15;38(3):421–4

Localization of the L-glutamine synthetase gene to chromosome 1q23. Clancy KP, et al. **Genomics** 1996 Dec 15;38(3):418–20

Assignment of the closest human homologue (DNA2L:KIAA0083) of the yeast Dna2 helicase gene to chromosome band 10q21.3–q22.1. Eki T, et al. **Genomics** 1996 Nov 1;37(3):408–10

Chromosomal mapping of the gene (PI9) encoding the intracellular serpin proteinase inhibitor 9 to 6p25 by fluorescence in situ hybridization. Eyre HJ, et al. **Genomics** 1996 Nov 1;37(3):406–8

Genomic cloning of a human heat shock protein 40 (Hsp40) gene (HSPF1) and its chromosomal localization to 19p13.2. Hata M, et al. **Genomics** 1996 Dec 15;38(3):446–9

Genetic mapping of four mouse bHLH genes related to Drosophila proneural gene atonal. Isaka F, et al. **Genomics** 1996 Nov 1;37(3):400–2

Localization of the human deoxyguanosine kinase gene (DGUOK) to chromosome 2p13. Johansson M, et al. **Genomics** 1996 Dec 15;38(3):450–1

Human Sp3 transcriptional regulator gene (SP3) maps to chromosome 2q31. Kalff-Suske M, et al. **Genomics** 1996 Nov 1;37(3):410–2

Cloning, RNA expression, and chromosomal location of a mouse histamine H2 receptor gene. Kobayashi T, et al. **Genomics** 1996 Nov 1;37(3):390–4

Isolation, characterization, and organ-specific expression of two novel human zinc finger genes related to the Drosophila gene spalt. Kohlhase J, et al. **Genomics** 1996 Dec 15;38(3):291–8

Isolation and characterization of GT335, a novel human gene conserved in Escherichia coli and mapping to 21q22.3. Lafrenière RG, et al. **Genomics** 1996 Dec 15;38(3):264–72

Systematic sequencing of the human HLA-A/HLA-F region: establishment of a cosmid contig and identification of a new gene cluster within 37 kb of sequence. Lepourcelet M, et al. **Genomics** 1996 Nov 1;37(3):316–26

Localization of a gene coding for the phospholipase A2-L subtype (PLA2L) to human chromosome 8q24-qter. Meyer AH, et al. **Genomics** 1996 Dec 15;38(3):435–7

Molecular cloning of a human RP105 homologue and chromosomal localization of the mouse and human RP105 genes (Ly64 and LY64). Miura Y, et al. **Genomics** 1996 Dec 15;38(3):299–304

Chromosomal localization of the genes (CLNS1A and CLNS1B) coding for the swelling-dependent chloride channel ICln. Nagl UO, et al. **Genomics** 1996 Dec 15; 38(3):438–41

Genomic organization, expression, and chromosomal mapping of the mouse adrenomedullin gene. Okazaki T, et al. **Genomics** 1996 Nov 1;37(3):395–9

Assignment of human inhibitor of apoptosis protein (IAP) genes xiap, hiap-1, and hiap-2 to chromosomes Xq25 and 11q22–q23 by fluorescence in situ hybridization. Rajcan-Separovic E, et al. **Genomics** 1996 Nov 1; 37(3):404–6

Structure and mapping of the human lanosterol 14alpha-demethylase gene (CYP51) encoding the cytochrome P450 involved in cholesterol biosynthesis; comparison of exon/intron organization with other mammalian and fungal CYP genes. Rozman D, et al. **Genomics** 1996 Dec 15;38(3):371–81

Isolation of human and murine homologues of the Drosophila minibrain gene: human homologue maps to 21q22.2 in the Down syndrome "critical region". Song WJ, et al. **Genomics** 1996 Dec 15;38(3):331–9

The human GATA-6 gene: structure, chromosomal location, and regulation of expression by tissue-specific and mitogen-responsive signals. Suzuki E, et al. **Genomics** 1996 Dec 15;38(3):283–90

Tissue distribution, genomic structure, and chromosome mapping of mouse and human eukaryotic initiation factor 4E-binding proteins 1 and 2. Tsukiyama-Kohara K, et al. **Genomics** 1996 Dec 15;38(3):353–63

The gene for human carboxypeptidase U (CPU)—a proposed novel regulator of plasminogen activation—maps to 13q14.11. Vanhoof G, et al. **Genomics** 1996 Dec 15; 38(3):454–5

Isolation, mapping, and genomic structure of an X-linked gene for a subunit of human mitochondrial complex I. Zhuchenko O, et al. **Genomics** 1996 Nov 1;37(3):281–8

Identification of new members of the Gas2 and Ras families in the 22q12 chromosome region. Zucman-Rossi J, et al. **Genomics** 1996 Dec 15;38(3):247–54

Directed search for thrombomodulin gene mutations. Ireland H, et al. **Haemostasis** 1996 Oct;26 Suppl 4:227–32

Exon structure of the gene encoding the human mannose-binding protein-associated serine protease light chain: comparison with complement C1r and C1s genes. Endo Y, et al. **Int Immunol** 1996 Sep;8(9):1355–8

Isolation and characterization of a novel gene from human glioblastoma multiforme tumor tissue. Sehgal A, et al. **Int J Cancer** 1997 May 16;71(4):565–72

Gene expression domains as markers in developmental toxicity studies using mammalian embryo culture. Williams JA, et al. **Int J Dev Biol** 1997 Apr;41(2):359–64

Identification of 17 mutations in ten exons in the COL4A5 collagen gene, but no mutations found in four exons in COL4A6: a study of 250 patients with hematuria and suspected of having Alport syndrome. Heiskari N, et al. **J Am Soc Nephrol** 1996 May;7(5):702–9

Structure of the rRNA genes in the hamster sperm nucleus. Nadel B, et al. **J Androl** 1995 Nov-Dec;16(6):517–22

Gender-specific regional changes in genetic structure of muscularity in early adolescence. Loos R, et al. **J Appl Physiol** 1997 Jun;82(6):1802–10

Structural organization and promoter activity of the human ryudocan gene. Takagi A, et al. **J Biochem (Tokyo)** 1996 May;119(5):979–84

Genomic structure of a Y-specific ribonucleic acid binding motif-containing gene: a putative candidate for a subset of male infertility. Najmabadi H, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2159–64

The RHD gene is highly detectable in RhD-negative Japanese donors. Okuda H, et al. **J Clin Invest** 1997 Jul 15;100(2):373–9

Analysis of the genes encoding the mast cell function-associated antigen and its alternatively spliced transcripts. Bocek P Jr, et al. **J Immunol** 1997 Apr 1; 158(7):3235–43

Isolation and characterization of murine fra-1: induction mediated by CD40 and surface Ig is protein kinase C dependent. Huo L, et al. **J Immunol** 1996 Nov 1; 157(9):3812–8

Experimental autoimmune myasthenia gravis in B10.BV8S2 transgenic mice: preferential usage of TCRAV1 gene by lymphocytes responding to acetylcholine receptor. Kaul R, et al. **J Immunol** 1997 Jun 15;158(12):6006–12

Molecular cloning of TER1, a chemokine receptor-like gene expressed by lymphoid tissues. Napolitano M, et al. **J Immunol** 1996 Oct 1;157(7):2759–63

Mouse decay-accelerating factor: selective and tissue-specific induction by estrogen of the gene encoding

the glycosylphosphatidylinositol-anchored form. Song WC, et al. **J Immunol** 1996 Nov 1;157(9):4166-72

Cloning of minimally divergent allelic forms of the natural killer (NK) receptor Ly-49C, differentially controlled by host genes in the MHC and NK gene complexes. Sundbäck J, et al. **J Immunol** 1996 Nov 1;157(9):3936-42

Expression patterns of developmental control genes in normal and Engrailed-1 mutant mouse spinal cord reveal early diversity in developing interneurons. Matise MP, et al. **J Neurosci** 1997 Oct 15;17(20):7805-16

Genetic analysis of structural elastic fiber and collagen genes in familial adolescent idiopathic scoliosis. Miller NH, et al. **J Orthop Res** 1996 Nov;14(6):994-9

Embryonic expression of glial cell-line derived neurotrophic factor (GDNF) suggests multiple developmental roles in neural differentiation and epithelial-mesenchymal interactions. Hellmich HL, et al. **Mech Dev** 1996 Jan; 54(1):95-105

Neuropeptide gene identification using the polymerase chain reaction. Maule AG, et al. **Methods Mol Biol** 1997;73:27-40

Differential display: identifying genes involved in cardiomyocyte proliferation. Cormier-Regard S, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):111-20

Molecular cloning of a novel type I receptor serine/threonine kinase for the TGF beta superfamily from rat brain. Tsuchida K, et al. **Mol Cell Neurosci** 1996 Jun;7(6):467-78

Specific demethylation of the CD4 gene during CD4 T lymphocyte differentiation. Tutt Landolfi MM, et al. **Mol Immunol** 1997 Jan;34(1):53-61

New member of the Snf1/AMPK kinase family, Melk, is expressed in the mouse egg and preimplantation embryo. Heyer BS, et al. **Mol Reprod Dev** 1997 Jun;47(2):148-56

A human homologue of the Drosophila eyes absent gene underlies branchio-oto-renal (BOR) syndrome and identifies a novel gene family. Abdelhak S, et al. **Nat Genet** 1997 Feb;15(2):157-64

Promoter swapping between the genes for a novel zinc finger protein and beta-catenin in pleiomorphic adenomas with t(3;8)(p21;q12) translocations [published erratum appears in Nat Genet 1997 Apr;15(4):411] Kas K, et al. **Nat Genet** 1997 Feb;15(2):170-4

Structural motifs of the PKD1 protein. Löhning C, et al. **Nephrol Dial Transplant** 1996;11 Suppl 6:2-4 (26 ref.)

cDNA cloning and characterization of an atrophin-1 (DRPLA disease gene)-related protein. Khan FA, et al. **Neurobiol Dis** 1996 Apr;3(2):121-8

Molecular cloning of the rat NADH:ubiquinone oxidoreductase subunit and its up-regulation in the facial muscle after denervation: detected by means of differential display. Kitahara T, et al. **Neurol Res** 1996 Aug; 18(4):329-36

YSK1, a novel mammalian protein kinase structurally related to Ste20 and SPS1, but is not involved in the known MAPK pathways. Osada S, et al. **Oncogene** 1997 May 1; 14(17):2047-57

Structure and chromosomal assignment of the mouse fra-1 gene, and its exclusion as a candidate gene for oc (osteosclerosis). Schreiber M, et al. **Oncogene** 1997 Sep 4; 15(10):1171-8

Peripheral retinopathy in offspring of carriers of Norrie disease gene mutations. Possible transplacental effect of abnormal Norrin. Mintz-Hittner HA, et al. **Ophthalmology** 1996 Dec;103(12):2128-34

Isolation and characterization of UGT2B15(Y85): a UDP-glucuronosyltransferase encoded by a polymorphic gene. Lévesque E, et al. **Pharmacogenetics** 1997 Aug; 7(4):317-25

The UDP glycosyltransferase gene superfamily: recommended nomenclature update based on evolutionary divergence. Mackenzie PI, et al. **Pharmacogenetics** 1997 Aug;7(4):255-69 (58 ref.)

Identification of protein coding regions in the human genome by quadratic discriminant analysis [published erratum appears in Proc Natl Acad Sci U S A 1997 May 13;94(10):5495] Zhang MQ. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):565-8

Identification of a glucocorticoid repressor domain in the rat beta 1-adrenergic receptor gene. Bahouth SW, et al. **Recept Signal Transduct** 1996;6(3-4):141-9

Gene structure of ANCA target antigens: implications for the pathogenesis of vasculitis. Jenne DE. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Oct;13(3):209-13 (49 ref.)

Developing a new view of evolution [news] [see comments] Pennisi E, et al. **Science** 1997 Jul 4;277(5322):34-7. Comment in: Science 1997 Sep 5;277(5331):1420.

[An attempt to clone genes which are related to neuronal target selection by the differential display] Sato M. **Kaibogaku Zasshi** 1997 Apr;72(2):95-8 **(Jpn)**

[Gene expression and the regulation in brain (discussion)] Hotta Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):589-607 **(Jpn)**

[Downstream of Hox genes] Kuroiwa A. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1075-82 (33 ref.) **(Jpn)**

[Transcriptional regulation by Hox gene products] Takahashi N. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1088-94 (46 ref.) **(Jpn)**

[Regulation of translation of the distal lacZ gene in polycistronic mRNA by the ribosome stream from the proximal gene] Nikolenko GN, et al. **Bioorg Khim** 1997 Mar;23(3):200-4 (Eng. Abstr.) **(Rus)**

[Identification and expression of plasmid genes participating in the synthesis of microcin C51] Fomenko DE, et al. **Genetika** 1996 Oct;32(10):1326-32 (Eng. Abstr.) **(Rus)**

GENETICS

A spectrum of mutations in the second gene for autosomal dominant polycystic kidney disease (PKD2). Veldhuisen B, et al. **Am J Hum Genet** 1997 Sep;61(3):547-55

Genetic characterization of the bovine leukaemia inhibitory factor (LIF) gene: isolation and sequencing, chromosome assignment and microsatellite analysis. Piedrahita JA, et al. **Anim Genet** 1997 Feb;28(1):14-20

Molecular characterisation of the Xenopus laevis chaperonin gene Cctg. Walkley NA, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1-2):25-30

Identification and analysis of the complete cDNA sequence for the human FAC1 gene. Zhu P, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1-2):5-8

Bicistronic vector for the creation of stable mammalian cell lines that predisposes all antibiotic-resistant cells to express recombinant protein. Rees S, et al. **Biotechniques** 1996 Jan; 20(1):102-4, 106, 108-10

Targeted inactivation of the mouse Huntington's disease gene homolog Hdh. MacDonald ME, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:627-38

Mouse Dll3: a novel divergent Delta gene which may complement the function of other Delta homologues during early pattern formation in the mouse embryo. Dunwoodie SL, et al. **Development** 1997 Aug;124(16):3065-76

Production of biologically active recombinant tilapia insulin-like growth factor-II polypeptides in Escherichia coli cells and characterization of the genomic structure of the coding region. Chen JY, et al. **DNA Cell Biol** 1997 Jul;16(7):883-92

Identification of the active gene coding for the metastasis-associated 37LRP/p40 multifunctional protein. Clausse N, et al. **DNA Cell Biol** 1996 Dec;15(12):1009-23

Structure and the promoter region of the mouse gene encoding the 67-kD form of glutamic acid decarboxylase. Szabó G, et al. **DNA Cell Biol** 1996 Dec;15(12):1081-91

Genomic organization and chromosomal mapping of the bovine Fas/APO-1 gene. Yoo J, et al. **DNA Cell Biol** 1996 May;15(5):377-85

Isolation and analysis of a novel gene, HXC-26, adjacent to the rab GDP dissociation inhibitor gene located at human chromosome Xq28 region. Toyoda A, et al. **DNA Res** 1996 Oct 31;3(5):337-40

DNA sequence and nucleosome placement on the murine fibroblast growth factor-4 gene. Wilder PJ, et al. **DNA Seq** 1997;7(2):117-21

The mouse filensin gene: structure and evolutionary relation to other intermediate filament genes. Gounari F, et al. **FEBS Lett** 1997 Aug 18;413(2):371-8

Cloning, mapping, and in vivo localization of a human member of the PKCI-1 protein family (PRKCNH1). Brzoska PM, et al. **Genomics** 1996 Aug 15;36(1):151-6

Molecular cloning of tissue-specific transcripts of a transketolase-related gene: implications for the evolution of new vertebrate genes. Coy JF, et al. **Genomics** 1996 Mar 15;32(3):309-16

Cloning of the genes encoding two murine and human cochlear unconventional type I myosins. Crozet F, et al. **Genomics** 1997 Mar 1;40(2):332-41

The genomic structure of the human Charcot-Leyden crystal protein gene is analogous to those of the galectin genes. Dyer KD, et al. **Genomics** 1997 Mar 1;40(2):217-21

Cloning, structural organization, and chromosomal mapping of the human phenol sulfotransferase STP2 gene. Gaedigk A, et al. **Genomics** 1997 Mar 1;40(2):242-6

Genomic organization of the human heparan sulfate-N-deacetylase/N-sulfotransferase gene: exclusion from a causative role in the pathogenesis of Treacher Collins syndrome. Gladwin AJ, et al. **Genomics** 1996 Mar 15;32(3):471-3

Molecular cloning and assignment of FAK2, a novel human focal adhesion kinase, to 8p11.2-p22 by nonisotopic in situ hybridization. Herzog H, et al. **Genomics** 1996 Mar 15; 32(3):484-6

Characteristics of the mouse genomic histamine H1 receptor gene. Inoue I, et al. **Genomics** 1996 Aug 15;36(1):178-81

Structural organization of the human microsomal glutathione S-transferase gene (GST12). Kelner MJ, et al. **Genomics** 1996 Aug 15;36(1):100-3

Structure and location of the murine adrenoleukodystrophy gene. Kennedy MA, et al. **Genomics** 1996 Mar 15; 32(3):395-400

Structural organization of the human gene (PKR) encoding an interferon-inducible RNA-dependent protein kinase (PKR) and differences from its mouse homolog. Kuhen KL, et al. **Genomics** 1996 Aug 15;36(1):197-201

The mouse thymosin beta 4 gene: structure, promoter identification, and chromosome localization. Li X, et al. **Genomics** 1996 Mar 15;32(3):388-94

The human alpha 2(XI) collagen gene (COL11A2): completion of coding information, identification of the promoter sequence, and precise localization within the major histocompatibility complex reveal overlap with the KE5 gene. Lui VC, et al. **Genomics** 1996 Mar 15; 32(3):401-12

Genomic organization of the human beta-catenin gene (CTNNB1). Nollet F, et al. **Genomics** 1996 Mar 15; 32(3):413-24

Structure of the promoter and genomic organization of the human beta'-adaptin gene (BAM22) from chromosome 22q12. Peyrard M, et al. **Genomics** 1996 Aug 15;36(1):112-7

Characterization of the mouse gene for the alpha 1 chain of type XVIII collagen (Col18a1) reveals that the three variant N-terminal polypeptide forms are transcribed from two widely separated promoters. Rehn M, et al. **Genomics** 1996 Mar 15;32(3):436-46

Genomic organization of the human ATP1AL1 gene encoding a ouabain-sensitive H,K-ATPase. Sverdlov VE, et al. **Genomics** 1996 Mar 15;32(3):317-27

CA repeat polymorphism of the neuronal nitric oxide synthase gene. Takahashi Y, et al. **Hum Hered** 1997 Jan-Feb;47(1):58-9

The Drosophila developmental gene fat facets has a human homologue in Xp11.4 which escapes X-inactivation and has related sequences on Yq11.2. Jones MH, et al. **Hum Mol Genet** 1996 Nov;5(11):1695-701

Identification of multiple regulatory elements of human L-histidine decarboxylase gene. Nakagawa S, et al. **J Biochem (Tokyo)** 1997 May;121(5):935-40

The 5'-flanking region of the human smooth muscle cell calponin gene contains a cis-acting domain for interaction with a methylated DNA-binding transcription repressor. Takahashi K, et al. **J Biochem (Tokyo)** 1996 Jul; 120(1):18-21

Structure of the gene encoding the human differentiation-stimulating factor/leukemia inhibitory factor receptor. Tomida M, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):201-5

Two cholinesterase activities and genes are present in amphioxus. Sutherland D, et al. **J Exp Zool** 1997 Feb 15; 277(3):213-29

Transkingdom transfer of the phosphoglucose isomerase gene. Katz LA. **J Mol Evol** 1996 Nov;43(5):453-9

Comparisons of the nucleotide substitution process among repetitive segments of the alpha- and beta-spectrin genes. Muse SV, et al. **J Mol Evol** 1997 May;44(5):492-500

Assignment of the human connexin43 gene, GJA1, to chromosome 6q22.3. Kato R, et al. **Jpn J Hum Genet** 1997 Mar;42(1):213-6

A keratin K10 gene mutation in a Japanese patient with epidermolytic hyperkeratosis. Nomura K, et al. **Jpn J Hum Genet** 1997 Mar;42(1):217-23

NcoI restriction fragment length polymorphism at -308 of the tumor necrosis factor alpha (TNFA) promoter region in Korean. Park KS, et al. **Jpn J Hum Genet** 1997 Mar; 42(1):241-7

Assignment of the human UDP-GalNAc:polypeptide, N-acetylgalactosaminyltransferase-type-2 gene to chromosomal region 1q42 by fluorescence in situ hybridization. Takai S, et al. **Jpn J Hum Genet** 1997 Mar; 42(1):237-40

Sequence and mapping of mouse synaptonemal complex protein genes Sycp1 and Sycp1-rs. Kerr SM, et al. **Mamm Genome** 1996 Mar;7(3):209-11

Human fibulin-1D: molecular cloning, expression and similarity with S1-5 protein, a new member of the fibulin gene family. Tran H, et al. **Matrix Biol** 1997 Mar; 15(7):479-93

Alpha-tubulin from early-diverging eukaryotic lineages and the evolution of the tubulin family. Keeling PJ, et al. **Mol Biol Evol** 1996 Dec;13(10):1297-305

Cloning of the novel human myeloid-cell-specific C/EBP-epsilon transcription factor. Chumakov AM, et al. **Mol Cell Biol** 1997 Mar;17(3):1375-86

Lack of gene- and strand-specific DNA repair in RNA polymerase III-transcribed human tRNA genes. Dammann R, et al. **Mol Cell Biol** 1997 Jan;17(1):219-29

Genomic organization and polymorphism of human angiotensin II type 2 receptor: no evidence for its gene mutation in two families of human premature ovarian failure syndrome. Katsuya T, et al. **Mol Cell Endocrinol** 1997 Mar 28;127(2):221-8

Structure of medaka transferrin gene and its 5'-flanking region. Mikawa N, et al. **Mol Mar Biol Biotechnol** 1996 Sep;5(3):225-9

Conservation of the myoglobin gene among Antarctic notothenioid fishes. Vayda ME, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):207-16

Gene-specific nuclear and mitochondrial repair of formamidopyrimidine DNA glycosylase-sensitive sites in Chinese hamster ovary cells. Taffe BG, et al. **Mutat Res** 1996 Dec 2;364(3):183-92

The Friedreich's ataxia gene encodes a novel phosphatidylinositol-4- phosphate 5-kinase [see comments] Carvajal JJ, et al. **Nat Genet** 1996 Oct;14(2):157-62. Comment in: Nat Genet 1997 Apr;15(4):337-8.

Sex-determining genes on mouse autosomes identified by linkage analysis of C57BL/6J-YPOS sex reversal. Eicher EM, et al. **Nat Genet** 1996 Oct;14(2):206-9

Hereditary pancreatitis is caused by a mutation in the cationic trypsinogen gene [see comments] Whitcomb DC, et al. **Nat Genet** 1996 Oct;14(2):141-5. Comment in: Nat Genet 1996 Oct;14(2):117-8.

Expression of angiogenic factors and structural proteins in central nervous system vascular malformations. Rothbart D, et al. **Neurosurgery** 1996 May;38(5):915-24; discussion 924-5

Use of a bicistronic GFP-expression vector to characterise ion channels after transfection in mammalian cells. Trouet D, et al. **Pflugers Arch** 1997 Sep;434(5):632-8

A model for the evolution of the plastid sec apparatus inferred from secY gene phylogeny. Vogel H, et al. **Plant Mol Biol** 1996 Nov;32(4):685–92

Origin of genes encoding multi-enzymatic proteins in eukaryotes. Davidson JN, et al. **Trends Genet** 1997 Jul; 13(7):281–5 (33 ref.)

[Identification of NPDC-1, gene involved in the control of proliferation and differentiation of neural and glial precursors] Dupont E, et al. **C R Seances Soc Biol Fil** 1997; 191(1):95–104 (34 ref.) (Eng. Abstr.) **(Fre)**

[Developmental genes] Gros F. **C R Seances Soc Biol Fil** 1997;191(1):7–20 (15 ref.) (Eng. Abstr.) **(Fre)**

[Role of the Krox-20 gene in the development of rhombencephalon] Schneider-Maunoury S, et al. **C R Seances Soc Biol Fil** 1997;191(1):91–4 (15 ref.) (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Partitioning of genetic variation between regulatory and coding gene segments: the predominance of software variation in genes encoding introvert proteins. Mitchison A. **Immunogenetics** 1997;46(1):46–52 (48 ref.)

Specific versus cooperative regulatory mechanisms of the cytokine genes that are clustered on the same chromosome. Koyano-Nakagawa N, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S174–82

Distinct methylation states of the CD8 beta gene in peripheral T cells and intraepithelial lymphocytes. Hamerman JA, et al. **J Immunol** 1997 Aug 1;159(3):1240–6

PHYSIOLOGY

Apoptosis: gene-directed cell death. An overview. Nakano R. **Horm Res** 1997;48 Suppl 3:2–4 (28 ref.)

RADIATION EFFECTS

Mutant frequency at the Hprt locus and in minisatellite sequences in Chinese hamster V79 cells irradiated with low-energy protons (31 keV/microm) and ultraviolet light (254 nm). Ogheri S, et al. **Radiat Res** 1997 Sep;148(3):203–8

Spectra of X-ray-induced and spontaneous intragenic HPRT mutations in closely related human cells differentially expressing the p53 tumor suppressor gene. Phillips EN, et al. **Radiat Res** 1997 Feb;147(2):138–47

GENES, STRUCTURAL, BACTERIAL

Cloning, sequencing, and expression of a Campylobacter jejuni periplasmic binding protein (P29) involved in histidine transport. Garvis SG, et al. **Adv Exp Med Biol** 1997;412:263–4

Detection of the fimbrial gene F18 (F107) from swine enteritis Escherichia coli. Schultz L, et al. **Adv Exp Med Biol** 1997;412:95–7

Characterization of the 6'-N-aminoglycoside acetyltransferase gene aac(6')-Il associated with a sulI-type integron. Hannecart-Pokorni E, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):314–8

Analysis of the enterohemorrhagic Escherichia coli O157 DNA region containing lambdoid phage gene p and Shiga-like toxin structural genes. Datz M, et al. **Appl Environ Microbiol** 1996 Mar;62(3):791–7

Distribution and characterization of mosquitocidal toxin genes in some strains of Bacillus sphaericus. Priest FG, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1195–8

Structural gene (nirS) for the cytochrome cd1 nitrite reductase of Alcaligenes eutrophus H16. Rees E, et al. **Appl Environ Microbiol** 1997 Feb;63(2):800–2

Identification of proteolipid from an extremely halophilic archaeon Halobacterium salinarum as an N,N'-dicyclohexyl-carbodiimide binding subunit of ATP synthase. Ihara K, et al. **Arch Biochem Biophys** 1997 May 15;341(2):267–72

Elongation factor Ts of Chlamydia trachomatis: structure of the gene and properties of the protein. Zhang Y, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):43–52

Escherichia coli rnpB promoter mutants altered in stringent response. Jung YH, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):582–6

Cloning, sequencing, and characterization of the ftsZ gene from coryneform bacteria. Kobayashi M, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):383–8

Sequence and analysis of a dnaJ homologue gene in cyanobacterium Synechococcus sp. PCC7942. Oguchi K, et al. **Biochem Biophys Res Commun** 1997 Jul 18; 236(2):461–6

A 13-kDa protein with a helix-turn-helix motif is encoded by bacterial operons related to the SRP pathway. Samuelsson T, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):839–43

Expression of Sulfolobus solfataricus trpE and trpG genes in E. coli. Tutino ML, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):306–10

A flavin reductase stimulates DszA and DszC proteins of Rhodococcus erythropolis IGTS8 in vitro. Xi L, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):73–5

Complete sequence of the UPP gene encoding uracil phosphoribosyltransferase from Mycobacterium bovis BCG. Kim JK, et al. **Biochem Mol Biol Int** 1997 May; 41(6):1117–24

Comparative analysis of the interactions of Escherichia coli sigma S and sigma 70 RNA polymerase holoenzyme with the stationary-phase-specific bolAp1 promoter. Nguyen LH, et al. **Biochemistry** 1997 Feb 18;36(7):1748–54

Nucleotide sequence of the vmhA gene encoding hemolysin from Vibrio mimicus. Kim GT, et al. **Biochim Biophys Acta** 1997 Apr 12;1360(2):102–4

Cloning and sequence analysis of the dimethylsulfoxide reductase structural gene from Rhodobacter capsulatus. Shaw AL, et al. **Biochim Biophys Acta** 1996 Sep 30; 1276(3):176–80

Phenylmercury transport mediated by merT-merP genes of Pseudomonas K-62 plasmid pMR26. Uno Y, et al. **Biol Pharm Bull** 1997 Jan;20(1):107–9

Identification of structural genes involved in bacterial exopolysaccharide production. Griffin AM, et al. **Biotechnol Genet Eng Rev** 1996;13:1–18 (111 ref.)

PCR-restriction fragment length polymorphism analysis of the ospC gene for detection of mixed culture and for epidemiological typing of Borrelia burgdorferi sensu stricto. Masuzawa T, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):60–3

Genes encoding proteins homologous to halobacterial Gvps N, J, K, F & L are located downstream of gvpC in the cyanobacterium Anabaena flos-aquae. Kinsman R, et al. **DNA Seq** 1997;7(2):97–106

Further sequence analysis of the DNA regions with the Rhodococcus 20S proteasome structural genes reveals extensive homology with Mycobacterium leprae. Nagy I, et al. **DNA Seq** 1997;7(3–4):225–8

Methanol:coenzyme M methyltransferase from Methanosarcina barkeri. Purification, properties and encoding genes of the corrinoid protein MT1. Sauer K, et al. **Eur J Biochem** 1997 Feb 1;243(3):670–7

Seryl-tRNA synthetase from the extreme halophile Haloarcula marismortui—isolation, characterization and sequencing of the gene and its expression in Escherichia coli. Taupin CM, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):141–50

Expression of the Zymomonas mobilis gfo gene or NADP-containing glucose:fructose oxidoreductase (GFOR) in Escherichia coli. Formation of enzymatically active preGFOR but lack of processing into a stable periplasmic protein. Wiegert T, et al. **Eur J Biochem** 1997 Feb 15;244(1):107–12

Cloning, molecular analysis and insertional mutagenesis of the bidirectional hydrogenase genes from the cyanobacterium Anacystis nidulans. Boison G, et al. **FEBS Lett** 1996 Sep 30;394(2):153–8

Immuno-purification of a dimeric subcomplex of the respiratory NADH-CoQ reductase of Rhodobacter capsulatus equivalent to the FP fraction of the mitochondrial complex I. Duborjal H, et al. **FEBS Lett** 1997 Apr 1;405(3):345–50

Phosphate groups in lipopolysaccharides of Salmonella typhimurium rfaP mutants. Helander IM, et al. **FEBS Lett** 1997 Jun 16;409(3):457–60

Characterization of the eaeA gene from rabbit enteropathogenic Escherichia coli strain RDEC-1 and comparison to other eaeA genes from bacteria that cause attaching-effacing lesions. Agin TS, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):249–58

The structural gene for rusticyanin from Thiobacillus ferrooxidans: cloning and sequencing of the rusticyanin gene. Hall JF, et al. **FEMS Microbiol Lett** 1996 Mar 15; 137(1):85–9

Prevalence of the speA2 and speA3 alleles in Streptococcus pyogenes isolated from TSLS patients in Japan. Matsumoto M, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):233–7

Cloning and nucleotide sequence of the mphB gene for macrolide 2'-phosphotransferase II in Escherichia coli. Noguchi N, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2–3):197–202

An archaebacterial homolog of pelota, a meiotic cell division protein in eukaryotes. Ragan MA, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):151–5

Single-step polymerase chain reaction for combined gene detection and epidemiological typing in three bacterial models. Saulnier P, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):311–6

Duplication of genes encoding the immunodominant 38 kDa antigen in Mycobacterium intracellulare. Thangaraj HS, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):235–40

Cloning and characterization of the gene (empV) encoding extracellular metalloprotease from Vibrio vulnificus. Chuang YC, et al. **Gene** 1997 Apr 21;189(2):163–8

Isolation and characterisation of a linked cluster of genes from Agrobacterium tumefaciens encoding proteins involved in flagellar basal-body structure. Deakin WJ, et al. **Gene** 1997 Apr 11;189(1):135–7

The Agrobacterium tumefaciens motor gene, motA, is in a linked cluster with the flagellar switch protein genes, fliG, fliM and fliN. Deakin WJ, et al. **Gene** 1997 Apr 11; 189(1):139–41

A ribosomal RNA operon from Pseudomonas stutzeri Zobell. Kerkhof L. **Gene** 1997 Jun 19;192(2):241–3

The rpoH gene encoding sigma 32 homolog of Vibrio cholerae. Sahu GK, et al. **Gene** 1997 Apr 21;189(2):203–7

Cloning and sequence analysis of zooA, a Streptococcus zooepidemicus gene encoding a bacteriocin-like inhibitory substance having a domain structure similar to that of lysostaphin. Simmonds RS, et al. **Gene** 1997 Apr 21; 189(2):255–61

Transcriptional analysis of the groESL operon of Neisseria gonorrhoeae. Tauschek M, et al. **Gene** 1997 Apr 11; 189(1):107–12

Cloning and characterization of a Prevotella melaninogenica hemolysin. Allison HE, et al. **Infect Immun** 1997 Jul; 65(7):2765–71

Molecular characterization of pldA, the structural gene for a phospholipase A from Campylobacter coli, and its contribution to cell-associated hemolysis. Grant KA, et al. **Infect Immun** 1997 Apr;65(4):1172–80

Analysis of the genes encoding the antigen 85 complex and MPT51 from Mycobacterium avium. Ohara N, et al. **Infect Immun** 1997 Sep;65(9):3680–5

Cloning and sequence analysis of the gbpC gene encoding a novel glucan-binding protein of Streptococcus mutans. Sato Y, et al. **Infect Immun** 1997 Feb;65(2):668–75

Identification of tandem genes involved in lipooligosaccharide expression by Haemophilus ducreyi. Stevens MK, et al. **Infect Immun** 1997 Feb;65(2):651–60

Cloning and genetic analysis of the Vibrio cholerae aminopeptidase gene. Toma C, et al. **Infect Immun** 1996 Nov;64(11):4495–500

Synthesis and function of Actinomyces naeslundii T14V type 1 fimbriae require the expression of additional fimbria-associated genes. Yeung MK, et al. **Infect Immun** 1997 Jul;65(7):2629–39

Cloning of the enomycin structural gene from Streptomyces mauvecolor and production of recombinant enomycin in Escherichia coli. Takeuchi S, et al. **J Antibiot (Tokyo)** 1997 Jan;50(1):27–31

Cloning, expression, and characterization of the Lactococcus lactis pfl gene, encoding pyruvate formate-lyase. Arnau J, et al. **J Bacteriol** 1997 Sep;179(18):5884–91

Translation initiation factor IF2 of the myxobacterium Stigmatella aurantiaca: presence of a single species with an unusual N-terminal sequence. Bremaud L, et al. **J Bacteriol** 1997 Apr;179(7):2348–55

Cloning and characterization of the gene for amylosucrase from Neisseria polysaccharea: production of a linear alpha-1,4-glucan. Büttcher V, et al. **J Bacteriol** 1997 May; 179(10):3324–30

Molecular characterization of a germination-specific muramidase from Clostridium perfringens S40 spores and nucleotide sequence of the corresponding gene. Chen Y, et al. **J Bacteriol** 1997 May;179(10):3181–7

benK encodes a hydrophobic permease-like protein involved in benzoate degradation by Acinetobacter sp. strain ADP1. Collier LS, et al. **J Bacteriol** 1997 Sep;179(18):5943–6

An alkB gene homolog is differentially transcribed during the Caulobacter crescentus cell cycle. Colombi D, et al. **J Bacteriol** 1997 May;179(10):3139–45

The Bacillus subtilis ureABC operon. Cruz-Ramos H, et al. **J Bacteriol** 1997 May;179(10):3371–3

Pristinamycin I biosynthesis in Streptomyces pristinaespiralis: molecular characterization of the first two structural peptide synthetase genes. de Crécy-Lagard V, et al. **J Bacteriol** 1997 Feb;179(3):705–13

Interactions of OxyR with the promoter region of the oxyR and ahpC genes from Mycobacterium leprae and Mycobacterium tuberculosis. Dhandayuthapani S, et al. **J Bacteriol** 1997 Apr;179(7):2401–9

MdfA, an Escherichia coli multidrug resistance protein with an extraordinarily broad spectrum of drug recognition. Edgar R, et al. **J Bacteriol** 1997 Apr;179(7):2274–80

Promoter mapping and transcriptional regulation of the iron-regulated Neisseria gonorrhoeae fbpA gene. Forng RY, et al. **J Bacteriol** 1997 May;179(9):3047–52

Transcriptional regulation of the Enterococcus faecium BM4147 vancomycin resistance gene cluster by the VanS-VanR two-component regulatory system in Escherichia coli K-12. Haldimann A, et al. **J Bacteriol** 1997 Sep;179(18):5903–13

The rtn gene of Proteus vulgaris is actually from Escherichia coli. Hall BG. **J Bacteriol** 1997 Apr;179(7):2433–4

The dnaK operon of Bacillus subtilis is heptacistronic. Homuth G, et al. **J Bacteriol** 1997 Feb;179(4):1153–64

Cloning and functional analysis of the P97 swine cilium adhesin gene of Mycoplasma hyopneumoniae. Hsu T, et al. **J Bacteriol** 1997 Feb;179(4):1317–23

Cloning, expression, and purification of UDP-3-O-acyl-GlcNAc deacetylase from Pseudomonas aeruginosa: a metalloamidase of the lipid A biosynthesis pathway. Hyland SA, et al. **J Bacteriol** 1997 Mar; 179(6):2029–37

A Corynebacterium glutamicum gene conferring multidrug resistance in the heterologous host Escherichia coli. Jäger W, et al. **J Bacteriol** 1997 Apr;179(7):2449–51

The RIB element in the goaG-pspF intergenic region of Escherichia coli. Jovanovic G, et al. **J Bacteriol** 1997 May; 179(10):3095–102

The flk gene of Salmonella typhimurium couples flagellar P- and L-ring assembly to flagellar morphogenesis. Karlinsey JE, et al. **J Bacteriol** 1997 Apr;179(7):2389–400

The chlamydial EUO gene encodes a histone H1-specific protease. Kaul R, et al. **J Bacteriol** 1997 Sep; 179(18):5928–34

The Agrobacterium tumefaciens virulence gene chvE is part of a putative ABC-type sugar transport operon. Kemner JM, et al. **J Bacteriol** 1997 Apr;179(7):2452–8

The rkpGHI and -J genes are involved in capsular polysaccharide production by Rhizobium meliloti. Kiss E, et al. **J Bacteriol** 1997 Apr;179(7):2132–40

A possible role for acetylated intermediates in

diaminopimelate and tabtoxinine-beta-lactam biosynthesis in Pseudomonas syringae pv. tabaci BR2.024. Liu L, et al. **J Bacteriol** 1997 Sep;179(18):5922–7

comYA, a gene similar to comGA of 'Bacillus subtilis, is essential for competence-factor-dependent DNA transformation in Streptococcus gordonii. Lunsford RD, et al. **J Bacteriol** 1997 May;179(10):3122–6

The nucleotide sequence of the Pseudomonas aeruginosa pyrE-crc-rph region and the purification of the crc gene product. MacGregor CH, et al. **J Bacteriol** 1996 Oct; 178(19):5627–35

Transcriptional control of genes encoding CS1 pili: negative regulation by a silencer and positive regulation by Rns. Murphree D, et al. **J Bacteriol** 1997 Sep;179(18):5736–43

The ispB gene encoding octaprenyl diphosphate synthase is essential for growth of Escherichia coli. Okada K, et al. **J Bacteriol** 1997 May;179(9):3058–60

Characterization of the alginate biosynthetic gene cluster in Pseudomonas syringae pv. syringae. Peñaloza-Vázquez A, et al. **J Bacteriol** 1997 Jul;179(14):4464–72

Regulation of las and rhl quorum sensing in Pseudomonas aeruginosa. Pesci EC, . et al. **J Bacteriol** 1997 May; 179(10):3127–32

Cell wall anchoring of the Streptococcus pyogenes M6 protein in various lactic acid bacteria. Piard JC, et al. **J Bacteriol** 1997 May;179(9):3068–72

Molecular genetic characterization of the Escherichia coli gntT gene of GntI, the main system for gluconate metabolism. Porco A, et al. **J Bacteriol** 1997 Mar; 179(5):1584–90

The terminal quinol oxidase of the hyperthermophilic archaeon Acidianus ambivalens exhibits a novel subunit structure and gene organization. Purschke WG, et al. **J Bacteriol** 1997 Feb;179(4):1344–53

A crtB homolog essential for photochromogenicity in Mycobacterium marinum: isolation, characterization, and gene disruption via homologous recombination. Ramakrishnan L, et al. **J Bacteriol** 1997 Sep;179(18):5862–8

aarC, an essential gene involved in density-dependent regulation of the 2'-N-acetyltransferase in Providencia stuartii. Rather PN, et al. **J Bacteriol** 1997 Apr; 179(7):2267–73

Inversion of Moraxella lacunata type 4 pilin gene sequences by a Neisseria gonorrhoeae site-specific recombinase. Rozsa FW, et al. **J Bacteriol** 1997 Apr;179(7):2382–8

The htpG gene of Bacillus subtilis belongs to class III heat shock genes and is under negative control. Schulz A, et al. **J Bacteriol** 1997 May;179(10):3103–9

DNA sequencing and expression of the formyl coenzyme A transferase gene, frc, from Oxalobacter formigenes. Sidhu H, et al. **J Bacteriol** 1997 May;179(10):3378–81

Characterization of EspC, a 110-kilodalton protein secreted by enteropathogenic Escherichia coli which is homologous to members of the immunoglobulin A protease-like family of secreted proteins. Stein M, et al. **J Bacteriol** 1996 Nov; 178(22):6546–54

Characterization and regulation of the gene encoding nitrite reductase in Rhodobacter sphaeroides 2.4.3. Tosques IE, et al. **J Bacteriol** 1997 Feb;179(4):1090–5

Identification of a new porin, RafY, encoded by raffinose plasmid pRSD2 of Escherichia coli. Ulmke C, et al. **J Bacteriol** 1997 Sep;179(18):5783–8

mucK, a gene in Acinetobacter calcoaceticus ADP1 (BD413), encodes the ability to grow on exogenous cis,cis-muconate as the sole carbon source. Williams PA, et al. **J Bacteriol** 1997 Sep;179(18):5935–42

The kilE locus of promiscuous IncP alpha plasmid RK2 is required for stable maintenance in Pseudomonas aeruginosa. Wilson JW, et al. **J Bacteriol** 1997 Apr; 179(7):2339–47

Two cistrons of the gerC operon of Bacillus subtilis encode the two subunits of heptaprenyl diphosphate synthase. Zhang YW, et al. **J Bacteriol** 1997 Feb;179(4):1417–9

The Escherichia coli pgpB gene encodes for a diacylglycerol pyrophosphate phosphatase activity. Dillon DA, et al. **J Biol Chem** 1996 Nov 29;271(48):30548–53

Cloning and heterologous expression of an alpha1,3-fucosyltransferase gene from the gastric pathogen Helicobacter pylori. Ge Z, et al. **J Biol Chem** 1997 Aug 22;272(34):21357–63

Lewis X biosynthesis in Helicobacter pylori. Molecular cloning of an alpha(1,3)-fucosyltransferase gene. Martin SL, et al. **J Biol Chem** 1997 Aug 22;272(34):21349–56

Novel genes encoding 2-aminophenol 1,6-dioxygenase from Pseudomonas species AP-3 growing on 2-aminophenol and catalytic properties of the purified enzyme. Takenaka S, et al. **J Biol Chem** 1997 Jun 6;272(23):14727–32

Regulation of bacterial virulence gene expression by the host environment. Guiney DG. **J Clin Invest** 1997 Feb 15; 99(4):565–9 (26 ref.)

Analysis of the protease and adhesin domains of the PrpRI of Porphyromonas gingivalis. Curtis MA. **J Periodontal Res** 1997 Jan;32(1 Pt 2):133–9

Synthetic two-cistron expression system. Schoner BE. **Methods Mol Biol** 1997;62:89–97

A second Escherichia coli gene with similarity to gapA. Hidalgo E, et al. **Microbiologia** 1996 Mar;12(1):99–106

The flagellin N-methylase gene fliB and an adjacent serovar-specific IS200 element in Salmonella typhimurium. Burnens AP, et al. **Microbiology** 1997 May;143 (Pt 5):1539–47

Brucella abortus strain 2308 putative glucose and galactose transporter gene: cloning and characterization. Essenberg RC, et al. **Microbiology** 1997 May;143 (Pt 5):1549–55

The flgK motility operon of Borrelia burgdorferi is initiated by a sigma 70-like promoter. Ge Y, et al. **Microbiology** 1997 May;143 (Pt 5):1681–90

The purB gene of Escherichia coli K-12 is located in an operon. Green SM, et al. **Microbiology** 1996 Nov;142 (Pt 11):3219–30

Genes encoding the NAD-reducing hydrogenase of Rhodococcus opacus MR11. Grzeszik C, et al. **Microbiology** 1997 Apr;143 (Pt 4):1271–86

Analysis of a new dimeric extradiol dioxygenase from a naphthalenesulfonate-degrading sphingomonad. Heiss G, et al. **Microbiology** 1997 May;143 (Pt 5):1691–9

A new insertion sequence IS1452 from Acetobacter pasteurianus. Kondo K, et al. **Microbiology** 1997 Feb;143 (Pt 2):539–46

Molecular and immunological characterization of OprL, the 18 kDa outer-membrane peptidoglycan-associated lipoprotein (PAL) of Pseudomonas aeruginosa. Lim A Jr, et al. **Microbiology** 1997 May;143 (Pt 5):1709–16

Activation of the Erwinia carotovora subsp. carotovora pectin lyase structural gene pnlA: a role for RdgB. Liu Y, et al. **Microbiology** 1997 Mar;143 (Pt 3):705–12

The wprA gene of Bacillus subtilis 168, expressed during exponential growth, encodes a cell-wall-associated protease. Margot P, et al. **Microbiology** 1996 Dec;142 (Pt 12):3437–44

Propionibacterium acnes, a resident of lipid-rich human skin, produces a 33 kDa extracellular lipase encoded by gehA. Miskin JE, et al. **Microbiology** 1997 May;143 (Pt 5):1745–55

The nucleoside-specific Tsx channel from the outer membrane of Salmonella typhimurium, Klebsiella pneumoniae and Enterobacter aerogenes: functional characterization and DNA sequence analysis of the tsx genes. Nieweg A, et al. **Microbiology** 1997 Feb;143 (Pt 2):603–15

Molecular cloning of the Corynebacterium glutamicum ('Brevibacterium lactofermentum' AJ12036) odhA gene encoding a novel type of 2-oxoglutarate dehydrogenase. Usuda Y, et al. **Microbiology** 1996 Dec;142 (Pt 12):3347–54

Highly thermostable endo-1,3-beta-glucanase (laminarinase) LamA from Thermotoga neapolitana: nucleotide sequence of the gene and characterization of the recombinant gene product. Zverlov VV, et al. **Microbiology** 1997 May;143 (Pt 5):1701–8

The grpD55 locus of Escherichia coli appears to be an allele of dnaB. Bull HJ, et al. **Mol Gen Genet** 1996 Oct 28; 252(6):755–60

Molecular cloning and characterisation of the ribC gene from Bacillus subtilis: a point mutation in ribC results in riboflavin overproduction. Coquard D, et al. **Mol Gen Genet** 1997 Mar 18;254(1):81–4

Activation and analysis of cryptic crt genes for carotenoid biosynthesis from Streptomyces griseus. Schumann G, et al. **Mol Gen Genet** 1996 Oct 28;252(6):658–66

Characterization of flagella genes of Agrobacterium tumefaciens, and the effect of a bald strain on virulence. Chesnokova O, et al. **Mol Microbiol** 1997 Feb;23(3):579–90

The cioAB genes from Pseudomonas aeruginosa code for a novel cyanide-insensitive terminal oxidase related to the cytochrome bd quinol oxidases. Cunningham L, et al. **Mol Microbiol** 1997 May;24(3):579–91

Cloning, sequence and mutagenesis of the structural gene of Pseudomonas aeruginosa CysB, which can activate algD transcription. Delic-Attree I, et al. **Mol Microbiol** 1997 Jun;24(6):1275–84

Effect of the pufQ-pufB intercistronic region on puf mRNA stability in Rhodobacter capsulatus. Heck C, et al. **Mol Microbiol** 1996 Jun;20(6):1165–78

An unorthodox sensor protein (TorS) mediates the induction of the tor structural genes in response to trimethylamine N-oxide in Escherichia coli. Jourlin C, et al. **Mol Microbiol** 1996 Jun;20(6):1297–306

Identification of a DinB/UmuC homolog in the archeon Sulfolobus solfataricus. Kulaeva OI, et al. **Mutat Res** 1996 Oct 25;357(1-2):245–53

Regulation, unique gene organization, and unusual primary structure of carbon fixation genes from a marine phycoerythrin-containing cyanobacterium. Watson GM, et al. **Plant Mol Biol** 1996 Dec;32(6):1103–15

UV endonuclease of Micrococcus luteus, a cyclobutane pyrimidine dimer-DNA glycosylase/abasic lyase: cloning and characterization of the gene. Shiota S, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):593–8

Multidrug resistance mediated by a bacterial homolog of the human multidrug transporter MDR1. van Veen HW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10668–72

Cloning, overexpression, and mutagenesis of the gene for homoprotocatechuate 2,3-dioxygenase from Brevibacterium fuscum. Wang YZ, et al. **Protein Expr Purif** 1997 Jun;10(1):1–9

The cag pathogenicity island: mechanistic insights [letter; comment] Christie PJ. **Trends Microbiol** 1997 Jul;5(7):264–5 . Comment on: Trends Microbiol 1997 May;5(5):205–8.

[A promoter responsible for over-expression of cholera toxin B subunit in cholera toxin A subunit structure gene] Cao C, et al. **I Chuan Hsueh Pao** 1997;24(1):78–86 (Eng. Abstr.) **(Chi)**

[Construction of shuttle vector containing delta-endotoxin gene of Bacillus thuringiensis] Sun L, et al. **Wei Sheng Wu Hsueh Pao** 1996 Feb;36(1):69–72 (Eng. Abstr.) **(Chi)**

[Pillin structural gene and bacterial adhesion to cultured cell of Pseudomonas aeruginosa isolated from clinical materials] Nakazawa Y. **Kansenshogaku Zasshi** 1996 Dec; 70(12):1271–8 (Eng. Abstr.) **(Jpn)**

[Integration of IS186 element into the -10-region of the promoter of heat shock lon-gene in Escherichia coli] Ignatov KB, et al. **Bioorg Khim** 1997 Jan;23(1):18–20 (Eng. Abstr.) **(Rus)**

[Effect of culture medium components on the accumulation of extracellular bacillary ribonucleases in culture fluid of recombinant strains of Escherichia coli] Gabdrakhmanova LA, et al. **Mikrobiologiia** 1996 Sep-Oct;65(5):599–606 (Eng. Abstr.) **(Rus)**

[Toxigenic Vibrio cholerae: identification of the ctxB gene] Vergara M, et al. **Enferm Infecc Microbiol Clin** 1997 Apr; 15(4):181–5 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Mutational specificity of 1-(2-chloroethyl)-3-cyclohexyl-1-nitrosourea in Escherichia coli: comparison of in vivo with in vitro exposure of the supF gene. Luque-Romero FL, et al. **Environ Mol Mutagen** 1997;30(1):65–71

Paraquat regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K-12 is SoxRS independent but modulated by sigma S. Membrillo-Hernández J, et al. **J Bacteriol** 1997 May;179(10):3164–70

GENETICS

Complete nucleotide sequence of the Campylobacter jejuni 72Dz asd gene. Pawelec D, et al. **Acta Microbiol Pol** 1996; 45(3-4):299–304

Characterization of Campylobacter jejuni asd gene cloned in Escherichia coli. Raczyńska-Pawelec A, et al. **Acta Microbiol Pol** 1995;44(3-4):227–41

Expression of Escherichia coli TehA gives resistance to antiseptics and disinfectants similar to that conferred by multidrug resistance efflux pumps. Turner RJ, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):440–4

Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from Bacillus stearothermophilus, cloning of the corresponding gene, aspC, and application in a coupled transaminase process. Bartsch K, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3794–9

Cloning of the genes for and characterization of the early stages of toluene and o-xylene catabolism in Pseudomonas stutzeri OX1. Bertoni G, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3704–11

Two genes encoding an endoglucanase and a cellulose-binding protein are clustered and co-regulated by a TTA codon in Streptomyces halstedii JM8. Garda AL, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):403–11

Molecular cloning and analysis of a HSP (heat shock protein)-like 42 kDa antigen gene of Mycoplasma hyopneumoniae. Chou SY, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):821–31

PCR-cloning of the pac gene from E. coli ATCC11105--observations on the expression of a recombinant periplasmic protein. Gümüşel F, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):315–24

Molecular cloning of the leuB genes from Mycobacterium bovis BCG and Mycobacterium tuberculosis. Han MY, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):657–63

Isolation and characterization of the Bacillus subtilis tryptophanyl-tRNA synthetase gene (trpS) conferring 5-fluorotryptophan resistance and temperature sensitivity. Chow KC, et al. **Biochim Biophys Acta** 1996 Nov 11; 1309(1-2):42–6

The sequence of a symbiotically essential Bradyrhizobium japonicum operon consisting of trpD, trpC and a moaC-like gene. Kuykendall LD, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):277–81

Purification of the dissimilative nitrate reductase of Pseudomonas fluorescens and the cloning and sequencing of its corresponding genes. Philippot L, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):272–6

Endoglucanase G from Fibrobacter succinogenes S85 belongs to a class of enzymes characterized by a basic C-terminal domain. Iyo AH, et al. **Can J Microbiol** 1996 Sep;42(9):934–43

Identification and sequences of the Treponema pallidum flhA, flhF, and orf304 genes. Hardham JM, et al. **DNA Seq** 1997; 7(2):107–16

Molecular characterization of a flagellar/chemotaxis operon in the spirochete Borrelia burgdorferi. Ge Y, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):425–31

Sequencing, cloning and expression of a beta-1,4-mannanase gene, manA, from the extremely thermophilic anaerobic bacterium, Caldicellulosiruptor Rt8B.4. Gibbs MD, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):37–43

A gene encoding a membrane protein exists upstream of the amoA/amoB genes in ammonia oxidizing bacteria: a third member of the amo operon? Klotz MG, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):65–73

Analysis of non-polar deletion mutations in the genes of the spo0K (opp) operon of Bacillus subtilis. LeDeaux JR, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):63–9

Development of a technique for multiple site-directed mutagenesis of the ftf gene of Streptococcus salivarius

containing palindromic sequences. Rathsam C, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):447–53

Identification of the pdxK gene that encodes pyridoxine (vitamin B6) kinase in Escherichia coli K–12. Yang Y, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):89–95

Characterization of Campylobacter upsaliensis fur and its localization in a highly conserved region of the Campylobacter genome. Bourke B, et al. **Gene** 1996 Dec 12;183(1–2):219–24

Cloning and nucleotide sequencing of the protease gene of Vibrio vulnificus. Cheng JC, et al. **Gene** 1996 Dec 12; 183(1–2):255–7

Phenobarbital–dependent protein binding to Barbie box–like sequences in the coding region of cytochrome P450BM–3 gene from Bacillus megaterium. Gaidamakova EK, et al. **Gene** 1996 Dec 12;183(1–2):97–101

Cloning and nucleotide sequence of a flagellin encoding genetic locus from Xenorhabdus nematophilus: phase variation leads to differential transcription of two flagellar genes (fliCD). Givaudan A, et al. **Gene** 1996 Dec 12; 183(1–2):243–53

A new Bacillus subtilis gene with homology to Escherichia coli prc. Marasco R, et al. **Gene** 1996 Dec 12; 183(1–2):149–52

Molecular cloning and expression of NlaIII restriction–modification system in E. coli. Morgan RD, et al. **Gene** 1996 Dec 12;183(1–2):215–8

An Aeromonas salmonicida gene required for the establishment of infection in rainbow trout (Oncorhynchus mykiss). Noonan B, et al. **Gene** 1996 Oct 10;175(1–2):127–31

Characterisation of genes involved in biosynthesis of coronafacic acid, the polyketide component of the phytotoxin coronatine. Penfold CN, et al. **Gene** 1996 Dec 12;183(1–2):167–73

Sequence, overproduction and purification of Vibrio proteolyticus ribosomal protein L18 for in vitro and in vivo studies. Setterquist RA, et al. **Gene** 1996 Dec 12; 183(1–2):237–42

Cloning and nucleotide sequence analysis of the Streptococcus mutans membrane–bound, proton–translocating ATPase operon. Smith AJ, et al. **Gene** 1996 Dec 12;183(1–2):87–96

Cloning and sequencing of the gene encoding the Cu,Zn–superoxide dismutase of Haemophilus ducreyi. Stevens MK, et al. **Gene** 1996 Dec 12;183(1–2):35–40

Cloning, sequencing and expression of an Eikenella corrodens gene encoding a component protein of the lectin–like adhesin complex. Yumoto H, et al. **Gene** 1996 Dec 12; 183(1–2):115–21

Identification, sequencing, and enzymatic activity of the erythrose–4–phosphate dehydrogenase gene of Vibrio cholerae. Carroll PA, et al. **J Bacteriol** 1997 Jan; 179(1):293–6

The genes for butanol and acetone formation in Clostridium acetobutylicum ATCC 824 reside on a large plasmid whose loss leads to degeneration of the strain. Cornillot E, et al. **J Bacteriol** 1997 Sep;179(17):5442–7

Isolation and characterization of the lacA gene encoding beta–galactosidase in Bacillus subtilis and a regulator gene, lacR. Daniel RA, et al. **J Bacteriol** 1997 Sep;179(17):5636–8

Genetic characterization and expression in heterologous hosts of the 3–(3–hydroxyphenyl)propionate catabolic pathway of Escherichia coli K–12. Ferrández A, et al. **J Bacteriol** 1997 Apr;179(8):2573–81

Open reading frame 3, which is adjacent to the mycocerosic acid synthase gene, is expressed as an acyl coenzyme A synthase in Mycobacterium bovis BCG. Fitzmaurice AM, et al. **J Bacteriol** 1997 Apr;179(8):2608–15

TRAP transporters: a new family of periplasmic solute transport systems encoded by the dctPQM genes of Rhodobacter capsulatus and by homologs in diverse gram–negative bacteria. Forward JA, et al. **J Bacteriol** 1997 Sep;179(17):5482–93

Cloning, sequence, and properties of the soluble pyridine nucleotide transhydrogenase of Pseudomonas fluorescens. French CE, et al. **J Bacteriol** 1997 Apr;179(8):2761–5

A succinate dehydrogenase with novel structure and properties from the hyperthermophilic archaeon Sulfolobus acidocaldarius: genetic and biophysical characterization. Janssen S, et al. **J Bacteriol** 1997 Sep;179(17):5560–9

The femR315 gene from Staphylococcus aureus, the interruption of which results in reduced methicillin resistance, encodes a phosphoglucosamine mutase. Jolly L, et al. **J Bacteriol** 1997 Sep;179(17):5321–5

Gene cluster for dissimilatory nitrite reductase (nir) from Pseudomonas aeruginosa: sequencing and identification of a locus for heme d1 biosynthesis. Kawasaki S, et al. **J Bacteriol** 1997 Jan;179(1):235–42

Transposon mutagenesis reinforces the correlation between Mycoplasma pneumoniae cytoskeletal protein HMW2 and cytadherence. Krause DC, et al. **J Bacteriol** 1997 Apr; 179(8):2668–77

Isolation, analysis, and expression of two genes from Thermoanaerobacterium sp. strain JW/SL YS485: a beta–xylosidase and a novel acetyl xylan esterase with cephalosporin C deacetylase activity. Lorenz WW, et al. **J Bacteriol** 1997 Sep;179(17):5436–41

Molecular cloning and characterization of the obg gene of Streptomyces griseus in relation to the onset of morphological differentiation. Okamoto S, et al. **J Bacteriol** 1997 Jan;179(1):170–9

Cloning of the dapB gene, encoding dihydrodipicolinate reductase, from Mycobacterium tuberculosis. Pavelka MS Jr, et al. **J Bacteriol** 1997 Apr;179(8):2777–82

Molecular characterization of genes of Pseudomonas sp. strain HR199 involved in bioconversion of vanillin to protocatechuate. Priefert H, et al. **J Bacteriol** 1997 Apr; 179(8):2595–607

Minimal Streptomyces sp. strain C5 daunorubicin polyketide biosynthesis genes required for aklanonic acid biosynthesis. Rajgarhia VB, et al. **J Bacteriol** 1997 Apr;179(8):2690–6

Cloning and characterization of the ponA gene encoding penicillin–binding protein 1 from Neisseria gonorrhoeae and Neisseria meningitidis. Ropp PA, et al. **J Bacteriol** 1997 Apr;179(8):2783–7

Molecular cloning and characterization of the genes encoding the L1 and L2 components of hemolysin BL from Bacillus cereus. Ryan PA, et al. **J Bacteriol** 1997 Apr;179(8):2551–6

Identification, cloning, and characterization of the Ima operon, whose gene products are unique to Listeria monocytogenes. Schäferkordt S, et al. **J Bacteriol** 1997 Apr;179(8):2707–16

The lonS gene regulates swarmer cell differentiation of Vibrio parahaemolyticus. Stewart BJ, et al. **J Bacteriol** 1997 Jan;179(1):107–14

Novel Vibrio cholerae O139 genes involved in lipopolysaccharide biosynthesis. Stroeher UH, et al. **J Bacteriol** 1997 Apr;179(8):2740–7

Mutation of the htrB gene in a virulent Salmonella typhimurium strain by intergeneric transduction: strain construction and phenotypic characterization. Sunshine MG, et al. **J Bacteriol** 1997 Sep;179(17):5521–33

Interruption of the phosphoglucose isomerase gene results in glucose auxotrophy in Mycobacterium smegmatis. Tuckman D, et al. **J Bacteriol** 1997 Apr;179(8):2724–30

Identification and molecular characterization of two tandemly located flagellin genes from Aeromonas salmonicida A449. Umelo E, et al. **J Bacteriol** 1997 Sep; 179(17):5292–9

Purification of an extracellular D–(–)–3–hydroxybutyrate oligomer hydrolase from Pseudomonas sp. strain A1 and cloning and sequencing of its gene. Zhang K, et al. **J Bacteriol** 1997 Jan;179(1):72–7

Two genes encoding serine protease homologues in Serratia marcescens and characterization of their products in Escherichia coli. Ohnishi Y, et al. **J Biochem (Tokyo)** 1997 May;121(5):902–13

Identification and characterization of the acoD gene encoding a dihydrolipoamide dehydrogenase of the Klebsiella pneumoniae acetoin dehydrogenase system. Peng HL, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1118–23

Isolation, cloning, sequence analysis and localization of the operon encoding dimethyl sulfoxide/trimethylamine N–oxide reductase from Rhodobacter capsulatus. Knäblein J, et al. **J Mol Biol** 1996 Oct 18;263(1):40–52

Horizontal transfer of genes coding for the photosynthetic reaction centers of purple bacteria. Nagashima KV, et al. **J Mol Evol** 1997 Aug;45(2):131–6

Multiple colonization defects in a cysteine protease mutant of Porphyromonas gingivalis. Kuramitsu H, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):140–2

Nucleotide sequence of a gene encoding the novel Yersinia enterocolitica heat–stable enterotoxin that includes a pro–region–like sequence in its mature toxin molecule. Huang X, et al. **Microb Pathog** 1997 Feb;22(2):89–97

Cloning and molecular analysis of the Isi1 (rfaF) gene of Neisseria meningitidis which encodes a heptosyl–2–transferase involved in LPS biosynthesis: evaluation of surface exposed carbohydrates in LPS mediated toxicity for human endothelial cells. Jennings MP, et al. **Microb Pathog** 1995 Dec;19(6):391–407

An amplifiable and deletable locus of Streptomyces ambofaciens RP181110 contains a very large gene homologous to polyketide synthase genes. Aigle B, et al. **Microbiology** 1996 Oct;142 (Pt 10):2815–24

Proline iminopeptidase gene from Xanthomonas campestris pv. citri. Alonso J, et al. **Microbiology** 1996 Oct;142 (Pt 10):2951–7

Metabolic regulation of lrp gene expression in Escherichia coli K–12. Chen CF, et al. **Microbiology** 1997 Jun;143 (Pt 6):2079–84

P–fimbriae–producing septicaemic Escherichia coli from poultry possess fel–related gene clusters whereas pap–hybridizing P–fimbriae–negative strains have partial or divergent P fimbrial gene clusters. Dozois CM, et al. **Microbiology** 1996 Oct;142 (Pt 10):2759–66

Organization of methylamine utilization genes (mau) in Methylobacillus flagellatum ' KT and analysis of mau mutants. Gak ER, et al. **Microbiology** 1997 Jun;143 (Pt 6):1827–35

Chorismate synthase from Staphylococcus aureus. Horsburgh MJ, et al. **Microbiology** 1996 Oct;142 (Pt 10):2943–50

Mutants of Streptomyces roseosporus that express enhanced recombination within partially homologous genes. Hosted TJ, et al. **Microbiology** 1996 Oct;142 (Pt 10):2803–13

The aldA gene of Escherichia coli is under the control of at least three transcriptional regulators. Limón A, et al. **Microbiology** 1997 Jun;143 (Pt 6):2085–95

The thiJ locus and its relation to phosphorylation of hydroxymethylpyrimidine in Escherichia coli. Mizote T, et al. **Microbiology** 1996 Oct;142 (Pt 10):2969–74

The site–specific recombinase encoded by pinD in Shigella dysenteriae is due to the presence of a defective Mu prophage. Tominaga A. **Microbiology** 1997 Jun;143 (Pt 6):2057–63

An isoamylase with neutral pH optimum from a Flavobacterium species: cloning, characterization and expression of the iam gene. Krohn BM, et al. **Mol Gen Genet** 1997 May 20;254(5):469–78

A two–gene ABC–type transport system that extrudes Na+ in Bacillus subtilis is induced by ethanol or protonophore. Cheng J, et al. **Mol Microbiol** 1997 Mar;23(6):1107–20

A new PrfA–regulated gene of Listeria monocytogenes encoding a small, secreted protein which belongs to the family of internalins. Engelbrecht F, et al. **Mol Microbiol** 1996 Aug;21(4):823–37

A cytochrome c biogenesis gene involved in pyoverdine production in Pseudomonas fluorescens ATCC 17400. Gaballa A, et al. **Mol Microbiol** 1996 Aug;21(4):777–85

Identification of the streptococcal competence–pheromone receptor. Håvarstein LS, et al. **Mol Microbiol** 1996 Aug; 21(4):863–9

Different structures of selected and unselected araB–lacZ fusions. Maenhaut–Michel G, et al. **Mol Microbiol** 1997 Mar;23(6):1133–45

PHYSIOLOGY

A 150–megadalton plasmid in Rhizobium etli strain TAL182 contains genes for nodulation competitiveness on Phaseolus vulgaris L. Borthakur D, et al. **Can J Microbiol** 1996 Sep; 42(9):903–10

The sbcC and sbcD genes of Escherichia coli encode a nuclease involved in palindrome inviability and genetic recombination. Connelly JC, et al. **Genes Cells** 1996 Mar; 1(3):285–91

Genetic analysis of the Rhizobium meliloti bacA gene: functional interchangeability with the Escherichia coli sbmA gene and phenotypes of mutants. Ichige A, et al. **J Bacteriol** 1997 Jan;179(1):209–16

A role for Salmonella typhimurium cbiK in cobalamin (vitamin B12) and siroheme biosynthesis. Raux E, et al. **J Bacteriol** 1997 May;179(10):3202–12

Regulation of exopolysaccharide production in Rhizobium leguminosarum biovar viciae WSM710 involves exoR. Reeve WG, et al. **Microbiology** 1997 Jun;143 (Pt 6):1951–8

Catabolite repression of the Bacillus subtilis gnt operon exerted by two catabolite–responsive elements. Miwa Y, et al. **Mol Microbiol** 1997 Mar;23(6):1203–13

DnaA protein stimulates polA gene expression in Escherichia coli. Quiñones A, et al. **Mol Microbiol** 1997 Mar; 23(6):1193–202

GENES, STRUCTURAL, FUNGAL

The cysteine proteinase gene cprG in Dictyostelium discoideum has a serine–rich domain that contains GlcNAc–1–P. Ord T, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):64–72

Saccharomyces cerevisiae expresses two genes encoding isozymes of 5–aminoimidazole–4–carboxamide ribonucleotide transformylase. Tibbetts AS, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):195–200

An AP1 element is involved in transcriptional regulation of delta9–desaturase gene of Histoplasma capsulatum. Tosco A, et al. **Biochem Biophys Res Commun** 1997 Jan 13; 230(2):457–61

Molecular cloning and heterologous expression of the isopullulanase gene from Aspergillus niger A.T.C.C. 9642. Aoki H, et al. **Biochem J** 1997 May 1;323 (Pt 3):757–64

Molecular cloning and expression of the Candida albicans TOP2 gene allows study of fungal DNA topoisomerase II inhibitors in yeast. Keller BA, et al. **Biochem J** 1997 May 15;324 (Pt 1):329–39

Searching for a family of orphan sequences with SAMBA, a parallel hardware dedicated to biological applications. Guerdoux–Jamet P, et al. **Biochimie** 1996;78(5):311–4

Rapid method for construction of gene disruption plasmids in Saccharomyces cerevisiae. Fujimura H. **Biotechniques** 1996 Aug;21(2):208–9

Identification of the cell fate gene stalky in Dictyostelium. Chang WT, et al. **Cell** 1996 Nov 1;87(3):471–81

Cloning and function determination of promoter region of glucoamylase gene from Aspergillus niger T21. Tang G, et al. **Chin J Biotechnol** 1996;12(2):131–6

The isoprenoid pathway: cloning and characterization of fungal FPPS genes. Homann V, et al. **Curr Genet** 1996 Aug;30(3):232–9

Cloning and characterization of MRP10, a yeast gene coding for a mitochondrial ribosomal protein. Jin C, et al. **Curr Genet** 1997 Mar;31(3):228–34

3–Hydroxy–3–methylglutaryl–CoA reductase gene of Gibberella fujikuroi: isolation and characterization. Woitek S, et al. **Curr Genet** 1997 Jan;31(1):38–47

cudA: a Dictyostelium gene with pleiotropic effects on cellular differentiation and slug behaviour. Fukuzawa M, et al. **Development** 1997 Jul;124(14):2719–28

Transcriptional pulse–chase analysis reveals a role for a novel snRNP–associated protein in the manufacture of spliceosomal snRNPs. Noble SM, et al. **EMBO J** 1996 Aug 15;15(16):4368–79

A novel class of small amphipathic peptides affect aerial hyphal growth and surface hydrophobicity in Ustilago maydis. Wösten HA, et al. **EMBO J** 1996 Aug 15; 15(16):4274–81

Mitochondrial asparaginyl–tRNA synthetase is encoded by the yeast nuclear gene YCR24c [published erratum appears

in Eur J Biochem 1997 Apr 15;245(2):520] Landrieu I, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):268-73

The transcription of NAM7/UPF1 is enhanced in the absence of Cyp1p/Hap1p concomitant with the appearance of an ISF1-NAM7 cotranscript in Saccharomyces cerevisiae. Altamura N, et al. **FEBS Lett** 1997 Jun 2;409(1):96-100

Neutral trehalase Nth1p of Saccharomyces cerevisiae encoded by the NTH1 gene is a multiple stress responsive protein. Zähringer H, et al. **FEBS Lett** 1997 Aug 4; 412(3):615-20

The DAN1 gene of S. cerevisiae is regulated in parallel with the hypoxic genes, but by a different mechanism. Sertil O, et al. **Gene** 1997 Jun 19;192(2):199-205

Deletion of the leader peptide of the mitochondrially encoded precursor of Saccharomyces cerevisiae cytochrome c oxidase subunit II. Torello AT, et al. **Genetics** 1997 Apr; 145(4):903-10

Regulation of yeast phospholipid biosynthetic genes in phosphatidylserine decarboxylase mutants. Griač P. **J Bacteriol** 1997 Sep;179(18):5843-8

Overexpression of a cloned IMP dehydrogenase gene of Candida albicans confers resistance to the specific inhibitor mycophenolic acid. Köhler GA, et al. **J Bacteriol** 1997 Apr;179(7):2331-8

Isolation of the Candida albicans homologs of Saccharomyces cerevisiae KRE6 and SKN1: expression and physiological function. Mio T, et al. **J Bacteriol** 1997 Apr;179(7):2363-72

Regulation of the proteinase B structural gene PRB1 in Saccharomyces cerevisiae. Naik RR, et al. **J Bacteriol** 1997 Mar;179(5):1469-74

Identification and phenotypic analysis of two glyoxalase II encoding genes from Saccharomyces cerevisiae, GLO2 and GLO4, and intracellular localization of the corresponding proteins. Bito A, et al. **J Biol Chem** 1997 Aug 22; 272(34):21509-19

Saccharomyces cerevisiae basic region-leucine zipper protein regulatory networks converge at the ATR1 structural gene. Coleman ST, et al. **J Biol Chem** 1997 Sep 12; 272(37):23224-30

A 2'-phosphotransferase implicated in tRNA splicing is essential in Saccharomyces cerevisiae. Culver GM, et al. **J Biol Chem** 1997 May 16;272(20):13203-10

QSR1, an essential yeast gene with a genetic relationship to a subunit of the mitochondrial cytochrome bc1 complex, codes for a 60 S ribosomal subunit protein. Dick FA, et al. **J Biol Chem** 1997 May 16;272(20):13372-9

Saccharomyces cerevisiae VIG9 encodes GDP-mannose pyrophosphorylase, which is essential for protein glycosylation. Hashimoto H, et al. **J Biol Chem** 1997 Jun 27;272(26):16308-14

Identification of the structural gene for glyoxalase I from Saccharomyces cerevisiae. Inoue Y, et al. **J Biol Chem** 1996 Oct 18;271(42):25958-65

The TSR1 gene of Yarrowia lipolytica is involved in the signal recognition particle-dependent translocation pathway of secretory proteins. Mamoun CB, et al. **J Biol Chem** 1996 Sep 27;271(39):23895-901

The filamentous fungus Aspergillus niger contains two "differentially regulated" trehalose-6-phosphate synthase-encoding genes, tpsA and tpsB. Wolschek MF, et al. **J Biol Chem** 1997 Jan 31;272(5):2729-35

Dictyostelium IQGAP-related protein specifically involved in the completion of cytokinesis. Adachi H, et al. **J Cell Biol** 1997 May 19;137(4):891-8

Two new Ypt GTPases are required for exit from the yeast trans-Golgi compartment. Jedd G, et al. **J Cell Biol** 1997 May 5;137(3):563-80

Virulence of an aspergillopepsin-deficient mutant of Aspergillus fumigatus and evidence for another aspartic proteinase linked to the fungal cell wall. Reichard U, et al. **J Med Vet Mycol** 1997 May-Jun;35(3):189-96

The SpTRK gene encodes a potassium-specific transport protein TKHp in Schizosaccharomyces pombe. Lichtenberg-Fraté H, et al. **J Membr Biol** 1996 Jul; 152(2):169-81

A Candida albicans gene expressed in Saccharomyces cerevisiae results in a distinct pattern of mRNA processing. Iborra A, et al. **Microbiologia** 1996 Sep;12(3):443-8

Mapping of the FLO5 gene in saccharomyces cerevisiae. Sieiro C, et al. **Microbiologia** 1996 Sep;12(3):449-56

Cloning of a protopectinase gene of Trichosporon penicillatum and its expression in Saccharomyces cerevisiae. Iguchi K, et al. **Microbiology** 1997 May;143 (Pt 5):1657-64

The Schizosaccharomyces pombe cdc6 gene encodes the catalytic subunit of DNA polymerase delta. Iino Y, et al. **Mol Gen Genet** 1997 Mar 18;254(1):93-7

Isolation and characterization of the krev-1 gene, a novel member of ras superfamily in Neurospora crassa: involvement in sexual cycle progression. Ito S, et al. **Mol Gen Genet** 1997 Jul;255(4):429-37

In vitro mutagenesis of the mitochondrial leucyl tRNA synthetase of Saccharomyces cerevisiae shows that the suppressor activity of the mutant proteins is related to the splicing function of the wild-type protein. Li GY, et al. **Mol Gen Genet** 1996 Oct 28;252(6):667-75

Examination of the intron in the meiosis-specific recombination gene REC114 in Saccharomyces. Malone RE, et al. **Mol Gen Genet** 1997 Jul;255(4):410-9

NUC-2, a component of the phosphate-regulated signal transduction pathway in Neurospora crassa, is an ankyrin repeat protein. Poleg Y, et al. **Mol Gen Genet** 1996 Oct 28;252(6):709-16

The MBR1 gene from Saccharomyces cerevisiae is activated by and required for growth under sub-optimal conditions. Reisdorf P, et al. **Mol Gen Genet** 1997 Jul;255(4):400-9

SLS1, a new Saccharomyces cerevisiae gene involved in mitochondrial metabolism, isolated as a syntheticlethal in association with an SSM4 deletion. Rouillard JM, et al. **Mol Gen Genet** 1996 Oct 28;252(6):700-8

Characterization of SKM1, a Saccharomyces cerevisiae gene encoding a novel Ste20/PAK-like protein kinase. Martín H, et al. **Mol Microbiol** 1997 Feb;23(3):431-44

Mutations in a dispensable region of the UaY transcription factor of Aspergillus nidulans differentially affect the expression of structural genes. Oestreicher N, et al. **Mol Microbiol** 1997 Jun;24(6):1189-99

The Ogg1 protein of Saccharomyces cerevisiae: a 7,8-dihydro-8-oxoguanine DNA glycosylase/AP lyase whose lysine 241 is a critical residue for catalytic activity. Girard PM, et al. **Nucleic Acids Res** 1997 Aug 15; 25(16):3204-11

Expression of the psbA gene during photoinhibition and recovery in Synechocystis PCC 6714: inhibition and damage of transcriptional and translational machinery prevent the restoration of photosystem II activity. Constant S, et al. **Plant Mol Biol** 1997 May;34(1):1-13

Molecular genetics of yeast TCA cycle isozymes. McAlister-Henn L, et al. **Prog Nucleic Acid Res Mol Biol** 1997;57:317-39 (89 ref.)

Cloning and sequencing of the LYS1 gene encoding homocitrate synthase in the yeast Yarrowia lipolytica. Perez-Campo FM, et al. **Yeast** 1996 Nov;12(14):1459-69

DRUG EFFECTS

Mutations of pma-1, the gene encoding the plasma membrane H+-ATPase of Neurospora crassa, suppress inhibition of growth by concanamycin A, a specific inhibitor of vacuolar ATPases. Bowman EJ, et al. **J Biol Chem** 1997 Jun 6; 272(23):14776-86

GENETICS

Cloning of genes encoding alpha-L-arabinofuranosidase and beta-xylosidase from Trichoderma reesei by expression in Saccharomyces cerevisiae. Margolles-Clark E, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3840-6

Identification of aflatoxin biosynthesis genes by genetic complementation in an Aspergillus flavus mutant lacking the aflatoxin gene cluster. Prieto R, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3567-71

Endosomal transport function in yeast requires a novel AAA-type ATPase, Vps4p. Babst M, et al. **EMBO J** 1997 Apr 15;16(8):1820-31

Molecular cloning and expression studies of two divergent alpha-tubulin genes in Neurospora crassa. Monnat J, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):33-41

abaB, a putative regulator for secondary metabolism in Streptomyces. Scheu AK, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):29-36

Aspergillus fumigatus chsE: a gene related to CHS3 of Saccharomyces cerevisiae and important for hyphal growth and conidiophore development but not pathogenicity. Aufauvre-Brown A, et al. **Fungal Genet Biol** 1996 Feb; 21(1):141-52

Molecular cloning, nucleotide sequencing, and characterization of a 27-kDa antigenic protein from Paracoccidioides brasiliensis. McEwen JG, et al. **Fungal Genet Biol** 1996 Jun;20(2):125-31

Cloning and sequence analysis of elicitin genes of Phytophthora sojae. Mao Y, et al. **Fungal Genet Biol** 1996 Jun;20(2):169-72

The Aspergillus nidulans septin encoding gene, aspB, is essential for growth. Momany M, et al. **Fungal Genet Biol** 1996 Feb;21(1):92-100

The chsD and chsE genes of Aspergillus nidulans and their roles in chitin synthesis. Specht CA, et al. **Fungal Genet Biol** 1996 Jun;20(2):153-67

Isolation and molecular characterisation of the POL3 gene from Candida albicans. Nolan T, et al. **Gene** 1996 Dec 12; 183(1-2):159-65

Isolation of developmentally regulated genes from the edible mushroom Agaricus bisporus. De Groot PW, et al. **Microbiology** 1997 Jun;143 (Pt 6):1993-2001

CHS2, a chitin synthase gene from the oomycete Saprolegnia monoica. Mort-Bontemps M, et al. **Microbiology** 1997 Jun; 143 (Pt 6):2009-20

Filamentous growth of the budding yeast Saccharomyces cerevisiae induced by overexpression of the WHi2 gene. Radcliffe PA, et al. **Microbiology** 1997 Jun;143 (Pt 6):1867-76

The extracellular acid protease gene of Yarrowia lipolytica: sequence and pH-regulated transcription. Young TW, et al. **Microbiology** 1996 Oct;142 (Pt 10):2913-21

Genes encoding farnesyl cysteine carboxyl methyltransferase in Schizosaccharomyces pombe and Xenopus laevis. Imai Y, et al. **Mol Cell Biol** 1997 Mar;17(3):1543-51

Identification of RTF1, a novel gene important for TATA site selection by TATA box-binding protein in Saccharomyces cerevisiae. Stolinski LA, et al. **Mol Cell Biol** 1997 Aug;17(8):4490-500

Enhancement of Ty transposition at the ADH4 and ADH2 loci in meiotic yeast cells. Ribeiro-dos-Santos G, et al. **Mol Gen Genet** 1997 May 20;254(5):555-61

Identification of amdX, a new Cys-2-His-2 (C2H2) zinc-finger gene involved in the regulation of the amdS gene of Aspergillus nidulans. Murphy RL, et al. **Mol Microbiol** 1997 Feb;23(3):591-602

The S. cerevisiae outwardly-rectifying potassium channel (DUK1) identifies a new family of channels with duplicated pore domains. Reid JD, et al. **Receptors Channels** 1996; 4(1):51-62

Saccharomyces cerevisiae cell lysis mutations cly5 and cly7 define temperature-sensitive alleles of PKC1, the gene encoding yeast protein kinase C. Baymiller J, et al. **Yeast** 1997 Mar 30;13(4):305-12

Characterization of cwl1+, a gene from Schizosaccharomyces pombe whose overexpression causes cell lysis. Godoy C, et al. **Yeast** 1996 Aug;12(10):983-90

Identification of gene encoding a putative RNA-helicase, homologous to SKI2, in chromosome VII of Saccharomyces cerevisiae. Martegani E, et al. **Yeast** 1997 Mar 30;13(4):391-7

Cloning and expression of two chitin deacetylase genes of Saccharomyces cerevisiae. Mishra C, et al. **Yeast** 1997 Mar 30;13(4):327-36

Cloning, mapping and characterization of a genomic copy of the Lipomyces kononenkoae alpha-amylase-encoding gene (LKA1). Steyn AJ, et al. **Yeast** 1996 Aug; 12(10):925-37

PHYSIOLOGY

The Alternaria alternata melanin biosynthesis gene restores appressorial melanization and penetration of cellulose membranes in the melanin-deficient albino mutant of Colletotrichum lagenarium. Takano Y, et al. **Fungal Genet Biol** 1996 Feb;21(1):131-40

Two divergent catalase genes are differentially regulated during Aspergillus nidulans development and oxidative stress. Kawasaki L, et al. **J Bacteriol** 1997 May; 179(10):3284-92

Multicopy suppressors of phenotypes resulting from the absence of yeast VDAC encode a VDAC-like protein. Blachly-Dyson E, et al. **Mol Cell Biol** 1997 Oct; 17(10):5727-38

RADIATION EFFECTS

Identification and expression of uvi31+, a UV-inducible gene from Schizosaccharomyces pombe. Kim SH, et al. **Environ Mol Mutagen** 1997;30(1):72-81

GENES, STRUCTURAL, HELMINTH

Caenorhabditis elegans has two isozymic forms, CE-1 and CE-2, of fructose-1,6-bisphosphate aldolase which are encoded by different genes. Inoue T, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):226-34

Structural and functional analysis of a glutathione S-transferase from Ascaris suum. Liebau E, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):659-66

Genes required for GLP-1 asymmetry in the early Caenorhabditis elegans embryo. Crittenden SL, et al. **Dev Biol** 1997 Jan 1;181(1):36-46

hch-1, a gene required for normal hatching and normal migration of a neuroblast in C. elegans, encodes a protein related to TOLLOID and BMP-1. Hishida R, et al. **EMBO J** 1996 Aug 15;15(16):4111-22

Three novel T-box genes in Caenorhabditis elegans. Agulnik SI, et al. **Genome** 1997 Aug;40(4):458-64

Structure and expression of the Caenorhabditis elegans protein kinase C2 gene. Origins and regulated expression of a family of Ca2+-activated protein kinase C isoforms. Islas-Trejo A, et al. **J Biol Chem** 1997 Mar 7; 272(10):6629-40

Evolutionary conservation of a genetic pathway of programmed cell death. Yuan J. **J Cell Biochem** 1996 Jan; 60(1):4-11 (53 ref.)

Gene linkage and steady state RNAs suggest trans-splicing may be associated with a polycistronic transcript in Schistosoma mansoni. Davis RE, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):25-39

Repetitive sequences within the first internal transcribed spacer of ribosomal DNA in schistosomes contain a Chi-like site. Kane RA, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):265-9

GENETICS

C. elegans cell migration gene mig-10 shares similarities with a family of SH2 domain proteins and acts cell nonautonomously in excretory canal development. Manser J, et al. **Dev Biol** 1997 Apr 1;184(1):150-64

An abnormal ketamine response in mutants defective in the ryanodine receptor gene ryr-1 (unc-68) of Caenorhabditis elegans. Sakube Y, et al. **J Mol Biol** 1997 Apr 11; 267(4):849-64

Cloning, heterologous expression and antigenicity of a schistosome cercarial protease. Price HP, et al. **Parasitology** 1997 May;114 (Pt 5):447-53

GENES, STRUCTURAL, INSECT

The mago nashi gene is required for the polarisation of the oocyte and the formation of perpendicular axes in Drosophila. Micklem DR, et al. **Curr Biol** 1997 Jul 1; 7(7):468-78

IMP-L3, A 20-hydroxyecdysone-responsive gene encodes Drosophila lactate dehydrogenase: structural characterization and developmental studies. Abu-Shumays RL, et al. **Dev Genet** 1997;20(1):11-22

Developmental regulation of the Drosophila Tropomyosin I (TmI) gene is controlled by a muscle activator enhancer region that contains multiple cis-elements and binding sites for multiple proteins. Lin SC, et al. **Dev Genet** 1997; 20(4):297-306

Cloning and development expression of Choristoneura hormone receptor 75: a homologue of the Drosophila E75A gene. Palli SR, et al. **Dev Genet** 1997;20(1):36-46

klingon, a novel member of the Drosophila immunoglobulin superfamily, is required for the development of the R7 photoreceptor neuron. Butler SJ, et al. **Development** 1997 Feb;124(4):781-92

Evolution of the aminoacyl-tRNA synthetase family and the organization of the Drosophila glutamyl-prolyl-tRNA synthetase gene. Intron/exon structure of the gene, control of expression of the two mRNAs, selective advantage of the multienzyme complex. Cerini C, et al. **Eur J Biochem** 1997 Feb 15;244(1):176-85

Isolation and sequencing of the gene encoding Sp23, a structural protein of spermatophore of the mealworm beetle, Tenebrio molitor. Feng X, et al. **Gene** 1996 Nov 14;179(2):257-62

Cloning of Drosophila MCM homologs and analysis of their requirement during embryogenesis. Su TT, et al. **Gene** 1997 Jun 19;192(2):283-9

Role of the Drosophila EGF receptor in determination of the dorsoventral domains of escargot expression during primary neurogenesis. Yagi Y, et al. **Genes Cells** 1997 Jan; 2(1):41-53

Genetical analysis of visual system disorganizer (vid), a new gene involved in normal development of eye and optic lobe of the brain in Drosophila melanogaster. Rachidi M, et al. **Genetics** 1997;99(1):31-45

The stoned locus of Drosophila melanogaster produces a dicistronic transcript and encodes two distinct polypeptides. Andrews J, et al. **Genetics** 1996 Aug; 143(4):1699-711

oroshigane, a new segment polarity gene of Drosophila melanogaster, functions in hedgehog signal transduction. Epps JL, et al. **Genetics** 1997 Apr;145(4):1041-52

Genomic organization and evolution of alternative exons in a Drosophila calcium channel gene. Peixoto AA, et al. **Genetics** 1997 Apr;145(4):1003-13

stand still, a Drosophila gene involved in the female germline for proper survival, sex determination and differentiation. Pennetta G, et al. **Genetics** 1997 Apr;145(4):975-87

Formation of the Drosophila ovarian ring canal inner rim depends on cheerio. Robinson DN, et al. **Genetics** 1997 Apr;145(4):1063-72

Structure and organization of the P element related sequences in Drosophila madeirensis. Paricio N, et al. **Genome** 1996 Oct;39(5):823-9

Variation in the ribosomal RNA cistron among host-adapted races of an aphid (Schizaphis graminum). Black WC 4th. **Insect Mol Biol** 1993;2(2):59-69

The Drosophila gene abnormal spindle encodes a novel microtubule-associated protein that associates with the polar regions of the mitotic spindle. Saunders RD, et al. **J Cell Biol** 1997 May 19;137(4):881-90

Expression patterns of developmental genes reveal segment and parasegment organization of D. melanogaster genital discs. Freeland DE, et al. **Mech Dev** 1996 May; 56(1-2):61-72

iroquois: a prepattern gene that controls the formation of bristles on the thorax of Drosophila. Leyns L, et al. **Mech Dev** 1996 Sep;59(1):63-72

Molecular and genetic analyses of lama, an evolutionarily conserved gene expressed in the precursors of the Drosophila first optic ganglion. Perez SE, et al. **Mech Dev** 1996 Sep;59(1):11-27

A circadian enhancer mediates PER-dependent mRNA cycling in Drosophila melanogaster. Hao H, et al. **Mol Cell Biol** 1997 Jul;17(7):3687-93

The S-adenosyl-L-homocysteine hydrolase of Drosophila melanogaster: identification, deduced amino acid sequence and cytological localization of the structural gene. Caggese C, et al. **Mol Gen Genet** 1997 Jan 27;253(4):492-8

Visualization of gene expression in living adult Drosophila. Calleja M, et al. **Science** 1996 Oct 11;274(5285):252-5

[Signalling by Notch family receptors] Schweisguth F, et al. **C R Seances Soc Biol Fil** 1997;191(1):55-75 (71 ref.) (Eng. Abstr.) **(Fre)**

[Transcriptional regulation of DNA replication-related genes during Drosophila melanogaster development] Hirose F, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1022-32 (29 ref.) **(Jpn)**

[Developmental expression patterns and target assignment of the bombyx fork head and POU-M1 genes] Suzuki Y, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1083-7 (25 ref.) **(Jpn)**

[The engrailed gene and the compartment hypothesis] Tabata T. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1104-12 (22 ref.) **(Jpn)**

GENETICS

Molecular cloning and characterization of the ABC transporter expressed in Trachea (ATET) gene from Drosophila melanogaster. Kuwana H, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1-2):47-52

daughterless is required for Drosophila photoreceptor cell determination, eye morphogenesis, and cell cycle progression. Brown NL, et al. **Dev Biol** 1996 Oct 10; 179(1):65-78

The Adh-related gene of Drosophila melanogaster is expressed as a functional dicistronic messenger RNA: multigenic transcription in higher organisms. Brogna S, et al. **EMBO J** 1997 Apr 15;16(8):2023-31

Nucleotide sequence and presumed secondary structure of the 28S rRNA of pea aphid: implication for diversification of insect rRNA. Amako D, et al. **J Mol Evol** 1996 Nov; 43(5):469-75

Distribution and evolution of introns in Drosophila amylase genes. Da Lage JL, et al. **J Mol Evol** 1996 Oct;43(4):334-47

Evolution of the larval cuticle proteins coded by the secondary sex chromosome pair: X2 and neo-Y of Drosophila miranda: I. Comparison at the DNA sequence level. Steinemann M, et al. **J Mol Evol** 1996 Oct; 43(4):405-12

buttonhead and D-Sp1: a novel Drosophila gene pair. Wimmer EA, et al. **Mech Dev** 1996 Sep;59(1):53-62

Molecular population genetics of the alcohol dehydrogenase locus in the Hawaiian drosophilid D. mimica. Ayala FJ, et al. **Mol Biol Evol** 1996 Dec;13(10):1363-7

[Wingless/Wnt signal transduction mechanism] Yanagawa S. **Tanpakushitsu Kakusan Koso** 1997 Jan;42(1):22-30 (42 ref.) **(Jpn)**

PHYSIOLOGY

The lethal (2) giant larva (l(2)gl), a recessive oncogene, is required during embryonic and post-embryonic development in Drosophila. Baek KH, et al. **Cancer Lett** 1997 Jan 1;111(1-2):233-8

Vinculin gene is non-essential in Drosophila melanogaster. Alatortsev VE, et al. **FEBS Lett** 1997 Aug 18; 413(2):197-201

[Drosophila imaginal development and the escargot gene] Hayashi S. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1095-103 (19 ref.) **(Jpn)**

RADIATION EFFECTS

Characterisation of the ultraviolet-sensitive opsin gene in the honey bee, Apis mellifera. Bellingham J, et al. **Eur J Biochem** 1997 Feb 1;243(3):775-81

Distinct difference in relative biological effectiveness of 252Cf neutrons for the induction of mitotic crossing over and intragenic reversion of the white-ivory allele in Drosophila melanogaster. Yoshikawa I, et al. **Mutat Res** 1996 Oct 25;357(1-2):35-42

GENES, STRUCTURAL, NEOPLASM

Identification of new genes expressed in a human erythroleukemia cell line. Furukawa T, et al. **Blood Cells Mol Dis** 1996;22(1):11-22

A novel human Wnt gene, WNT10B, maps to 12q13 and is expressed in human breast carcinomas. Bui TD, et al. **Oncogene** 1997 Mar 13;14(10):1249-53

[Gene program regulating differentiation of embryonal carcinoma cells] Hamada H. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1018-21 (8 ref.) **(Jpn)**

IMMUNOLOGY

Ataxia-telangiectasia and the ATM gene: linking neurodegeneration, immunodeficiency, and cancer to cell cycle checkpoints. Shiloh Y, et al. **J Clin Immunol** 1996 Sep;16(5):254-60 (95 ref.)

GENES, STRUCTURAL, PLANT

Chloroplastic aspartate aminotransferase from Arabidopsis thaliana: an examination of the relationship between the structure of the gene and the spatial structure of the protein. Wilkie SE, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):969-76

Cloning, sequence, and expression of a blood group B active recombinant alpha-D-galactosidase from pinto bean (Phaseolus vulgaris). Davis MO, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):453-67

The nitrate reductase gene isolated from DNA of cultured spinach cells. Tamura N, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):151-5

The cox1 gene from Euglena gracilis: a protist mitochondrial gene without introns and genetic code modifications. Tessier LH, et al. **Curr Genet** 1997 Mar;31(3):208-13

The SAR1 gene of Arabidopsis acts downstream of the AXR1 gene in auxin response. Cernac A, et al. **Development** 1997 Apr;124(8):1583-91

Genomic recombination of the mitochondrial atp6 gene in Arabidopsis thaliana at the protein processing site creates two different presequences. Marienfeld J, et al. **DNA Res** 1996 Oct 31;3(5):287-90

DAG, a gene required for chloroplast differentiation and palisade development in Antirrhinum majus. Chatterjee M, et al. **EMBO J** 1996 Aug 15;15(16):4194-207

The DCL gene of tomato is required for chloroplast development and palisade cell morphogenesis in leaves. Keddie JS, et al. **EMBO J** 1996 Aug 15;15(16):4208-17

Barley elongation factor 1 alpha: genomic organization, DNA sequence, and phylogenetic implications. Nielsen PS, et al. **Genome** 1997 Aug;40(4):559-65

A complex arrangement of genes at a starch branching enzyme I locus in the D-genome donor of wheat. Rahman S, et al. **Genome** 1997 Aug;40(4):465-74

Splicing and intron-internal RNA editing of trnK-matK transcripts in barley plastids: support for MatK as an essential splice factor. Vogel J, et al. **J Mol Biol** 1997 Jul 11;270(2):179-87

Rice tungro bacilliform virus open reading frames II and III are translated from polycistronic pregenomic RNA by leaky scanning. Fütterer J, et al. **J Virol** 1997 Oct; 71(10):7984-9

Comparisons of the molecular evolutionary process at rbcL and ndhF in the grass family (Poaceae). Gaut BS, et al. **Mol Biol Evol** 1997 Jul;14(7):769-77

Evolution of a multigene family that encodes the Kunitz chymotrypsin inhibitor in winged bean: a possible intermediate in the generation of a new gene with a distinct pattern of expression. Habu Y, et al. **Mol Gen Genet** 1997 Mar 18;254(1):73-80

Root-specific expression of the LeRse-1 gene in tomato is induced by exposure of the shoot to light. Lauter FR. **Mol Gen Genet** 1996 Oct 28;252(6):751-4

The Arabidopsis ABSCISIC ACID-INSENSITIVE2 (ABI2) and ABI1 genes encode homologous protein phosphatases 2C involved in abscisic acid signal transduction. Leung J, et al. **Plant Cell** 1997 May; 9(5):759-71

Expression of a gene for uricase II (nodulin-35) in cotyledons of soybean plants. Takane K, et al. **Plant Cell Physiol** 1997 Feb;38(2):149-54

Expression of C3 and C4 photosynthetic characteristics in the amphibious plant Eleocharis vivipara: structure and analysis of the expression of isogenes for pyruvate, orthophosphate dikinase. Agarie S, et al. **Plant Mol Biol** 1997 May;34(2):363-9

A copia-like retrotransposon Tgmr closely linked to the Rps1-k allele that confers race-specific resistance of soybean to Phytophthora sojae. Bhattacharyya MK, et al. **Plant Mol Biol** 1997 May;34(2):255-64

The Brassica rapa elongated internode (EIN) gene encodes phytochrome B. Devlin PF, et al. **Plant Mol Biol** 1997 Jun;34(3):537-47

Characterisation of a pea hsp70 gene which is both developmentally and stress-regulated. Dhankher OP, et al. **Plant Mol Biol** 1997 May;34(2):345-52

Melon ascorbate oxidase: cloning of a multigene family, induction during fruit development and repression by wounding. Diallinas G, et al. **Plant Mol Biol** 1997 Jul; 34(5):759-70

The phosphoenolpyruvate carboxylase (ppc) gene family of Flaveria trinervia (C4) and F. pringlei (C3): molecular characterization and expression analysis of the ppcB and ppcC genes. Ernst K, et al. **Plant Mol Biol** 1997 Jun; 34(3):427-43

Interaction of tobacco nuclear protein with an elicitor-responsive element in the promoter of a basic class I chitinase gene. Fukuda Y. **Plant Mol Biol** 1997 May; 34(1):81-7

Regulatory activity exerted by the SAUR-AC1 promoter region in transgenic plants. Gil P, et al. **Plant Mol Biol** 1997 Jul;34(5):803-8

Potato cysteine proteinase inhibitor gene family: molecular cloning, characterisation and immunocytochemical localisation studies. Gruden K, et al. **Plant Mol Biol** 1997 May;34(2):317-23

A new Arabidopsis nucleic-acid-binding protein gene is highly expressed in dividing cells during development. Hecht V, et al. **Plant Mol Biol** 1997 May;34(1):119-24

AtPLC2, a gene encoding phosphoinositide-specific phospholipase C, is constitutively expressed in vegetative and floral tissues in Arabidopsis thaliana. Hirayama T, et al. **Plant Mol Biol** 1997 May;34(1):175-80

Characterization of a tobacco extensin gene and regulation of its gene family in healthy plants and under various stress conditions. Hirsinger C, et al. **Plant Mol Biol** 1997 Jan; 33(2):279-89

Characterization of pyruvate decarboxylase genes from rice. Hossain MA, et al. **Plant Mol Biol** 1996 Jul;31(4):761-70

Characterization of the gene for pyruvate,orthophosphate dikinase from rice, a C3 plant, and a comparison of structure and expression between C3 and C4 genes for this protein. Imaizumi N, et al. **Plant Mol Biol** 1997 Jul; 34(5):701-16

Structure, chromosomal location and expression of a rice gene encoding the microsome omega-3 fatty acid desaturase. Kodama H, et al. **Plant Mol Biol** 1997 Feb; 33(3):493-502

Identification of the tobacco and Arabidopsis homologues of the pollen-expressed LAT59 gene of tomato. Kulikauskas R, et al. **Plant Mol Biol** 1997 Jul;34(5):809-14

Characterization and expression of two members of the S-adenosylmethionine decarboxylase gene family in carnation flower. Lee MM, et al. **Plant Mol Biol** 1997 Jun; 34(3):371-82

Self-incompatibility in the grasses: evolutionary relationship of the S gene from Phalaris coerulescens to homologous sequences in other grasses. Li X, et al. **Plant Mol Biol** 1997 May;34(2):223-32

Molecular characterization of three differentially expressed members of the Camptotheca acuminata 3-hydroxy-3-methylglutaryl CoA reductase (HMGR)

gene family. Maldonado-Mendoza IE, et al. **Plant Mol Biol** 1997 Jul;34(5):781-90

Potato SNF1-related protein kinase: molecular cloning, expression analysis and peptide kinase activity measurements. Man AL, et al. **Plant Mol Biol** 1997 May; 34(1):31-43

PCR-identification of a Nicotiana plumbaginifolia cDNA homologous to the high-affinity nitrate transporters of the crnA family. Quesada A, et al. **Plant Mol Biol** 1997 May; 34(2):265-74

The molecular basis of disease resistance in rice. Ronald PC. **Plant Mol Biol** 1997 Sep;35(1-2):179-86 (53 ref.)

Expression in anthers of two genes encoding Brassica oleracea transmembrane channel proteins. Ruiter RK, et al. **Plant Mol Biol** 1997 May;34(1):163-8

A model for the evolution of polyubiquitin genes from the study of Arabidopsis thaliana ecotypes. Sun CW, et al. **Plant Mol Biol** 1997 Jul;34(5):745-58

Characterization of ppEG1, a member of a multigene family which encodes endo-beta-1,4-glucanase in peach. Trainotti L, et al. **Plant Mol Biol** 1997 Jul;34(5):791-802

Molecular cloning of the bark and seed lectins from the Japanese pagoda tree (Sophora japonica). Van Damme EJ, et al. **Plant Mol Biol** 1997 Feb;33(3):523-36

The isolation and characterization of type II metallothionein-like genes from tomato (Lycopersicon esculentum L.). Whitelaw CA, et al. **Plant Mol Biol** 1997 Feb;33(3):503-11

Expression of ethylene biosynthetic genes in Actinidia chinensis fruit. Whittaker DJ, et al. **Plant Mol Biol** 1997 May;34(1):45-55

Two genes for the high mobility group protein HMG-Y are present in the genome of Canavalia gladiata D.C. Yamamoto S, et al. **Plant Mol Biol** 1997 Feb;33(3):537-44

A gene encoding a chloroplast-targeted lipoxygenase in tomato leaves is transiently induced by wounding, systemin, and methyl jasmonate. Heitz T, et al. **Plant Physiol** 1997 Jul;114(3):1085-93

Two divergent members of a tobacco 4-coumarate:coenzyme A ligase (4CL) gene family. cDNA structure, gene inheritance and expression, and properties of recombinant proteins. Lee D, et al. **Plant Physiol** 1996 Sep; 112(1):193-205

Characterization of flavonol synthase and leucoanthocyanidin dioxygenase genes in Arabidopsis. Further evidence for differential regulation of "early" and "late" genes. Pelletier MK, et al. **Plant Physiol** 1997 Apr; 113(4):1437-45

Characterization and expression of NAD(H)-dependent glutamate dehydrogenase genes in Arabidopsis. Turano FJ, et al. **Plant Physiol** 1997 Apr;113(4):1329-41

The AP2 domain of APETALA2 defines a large new family of DNA binding proteins in Arabidopsis. Okamuro JK, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7076-81

Structure and expression of a rice hsp70 gene. Wang Q, et al. **Sci China C Life Sci** 1996 Jun;39(3):291-9

GENETICS

The Sec-1 locus on the short arm of chromosome 1R of rye (Secale cereale). Clarke BC, et al. **Chromosoma** 1996 Dec;105(5):269-75

Nucleotide sequence of the psbP gene encoding precursor of 23-kDa polypeptide of oxygen-evolving complex in Arabidopsis thaliana and its expression in the wild-type and a constitutively photomorphogenic mutant. Kochhar A, et al. **DNA Res** 1996 Oct 31;3(5):277-85

Characterization and mapping of cDNA encoding aspartate aminotransferase in rice, Oryza sativa L. Song J, et al. **DNA Res** 1996 Oct 31;3(5):303-10

Genetic mapping of genes for twelve nuclear-encoded polypeptides associated with the thylakoid membranes in Beta vulgaris L. Pillen K, et al. **FEBS Lett** 1996 Oct 14; 395(1):58-62

rbohA, a rice homologue of the mammalian gp91phox respiratory burst oxidase gene. Groom QJ, et al. **Plant J** 1996 Sep;10(3):515-22

The CER3 gene of Arabidopsis thaliana is expressed in leaves, stems, roots, flowers and apical meristems. Hannoufa A, et al. **Plant J** 1996 Sep;10(3):459-67

The ubiquitin-activating enzyme (E1) gene family in Arabidopsis thaliana. Hatfield PM, et al. **Plant J** 1997 Feb; 11(2):213-26

Cloning and characterization of the OsNramp family from Oryza sativa, a new family of membrane proteins possibly implicated in the transport of metal ions. Belouchi A, et al. **Plant Mol Biol** 1997 Apr;33(6):1085-92

The presence of a Sar1 gene family in Brassica campestris that suppresses a yeast vesicular transport mutation Sec12-1. Kim WY, et al. **Plant Mol Biol** 1997 Apr; 33(6):1025-35

The alcohol dehydrogenase genes of cotton. Millar AA, et al. **Plant Mol Biol** 1996 Jul;31(4):897-904

The rpl5-rps14-cob gene arrangement in Solanum tuberosum: rps14 is a transcribed and unedited pseudogene. Quiñones V, et al. **Plant Mol Biol** 1996 Jul;31(4):937-43

Three knotted1-like homeobox genes in Arabidopsis. Serikawa KA, et al. **Plant Mol Biol** 1996 Nov;32(4):673-83

Alternate paths of evolution for the photosynthetic gene rbcL in four nonphotosynthetic species of Orobanche. Wolfe AD, et al. **Plant Mol Biol** 1997 Apr;33(6):965-77

Structure and analysis of phospholipase D gene from Ricinus communis L. Xu L, et al. **Plant Mol Biol** 1996 Nov; 32(4):767-71

Organization and characterization of the ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit epsilon N-methyltransferase gene in tobacco. Ying Z, et al. **Plant Mol Biol** 1996 Nov;32(4):663-71

PHYSIOLOGY

Silencing of a beta-1,3-glucanase transgene is overcome during seed formation. Balandin T, et al. **Plant Mol Biol** 1997 May;34(1):125-37

Cloning of a WD-repeat-containing gene from alfalfa (Medicago sativa): a role in hormone-mediated cell division? McKhann HI, et al. **Plant Mol Biol** 1997 Jul; 34(5):771-80

A phosphate-starvation inducible beta-glucosidase gene (psr3.2) isolated from Arabidopsis thaliana is a member of a distinct subfamily of the BGA family. Malboobi MA, et al. **Plant Mol Biol** 1997 May;34(1):57-68

The RY sequence is necessary but not sufficient for the transcription activation of a winged bean chymotrypsin inhibitor gene in developing seeds. Sakata Y, et al. **Plant Mol Biol** 1997 May;34(2):191-7

Ethylene biosynthetic genes are differentially expressed during carnation (Dianthus caryophyllus L.) flower senescence. ten Have A, et al. **Plant Mol Biol** 1997 May; 34(1):89-97

GENES, STRUCTURAL, PROTOZOAN

Organization of Entamoeba histolytica ribosomal and structural genes in PFGE. Báez-Camargo M, et al. **Arch Med Res** 1997;28 Spec No:8-10

Physiology and molecular biology of multidrug resistance in Entamoeba histolytica. Gómez MD, et al. **Arch Med Res** 1996 Autumn;27(3):421-5 (24 ref.)

A soluble 3-hydroxy-3-methylglutaryl-CoA reductase in the protozoan Trypanosoma cruzi. Peña-Díaz J, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):619-26

Identification of the cell fate gene stalky in Dictyostelium. Chang WT, et al. **Cell** 1996 Nov 1;87(3):471-81

The cox1 gene from Euglena gracilis: a protist mitochondrial gene without introns and genetic code modifications. Tessier LH, et al. **Curr Genet** 1997 Mar;31(3):208-13

Two two-gene macronuclear chromosomes of the hypotrichous ciliates Oxytricha fallax and O. trifallax generated by alternative processing of the 81 locus. Seegmiller A, et al. **Dev Genet** 1997;20(4):348-57

PCR-RFLP analysis of the Cryptosporidium oocyst wall protein (COWP) gene discriminates between C. wrairi and C. parvum, and between C. parvum isolates of human and animal origin. Spano F, et al. **FEMS Microbiol Lett** 1997 May 15;150(2):209-17

Creation of homozygous mutants of Leishmania donovani with single targeting constructs. Hwang HY, et al. **J Biol Chem** 1996 Nov 29;271(48):30840-6

The gene for a T lymphocyte triggering factor from African trypanosomes. Vaidya T, et al. **J Exp Med** 1997 Aug 4; 186(3):433-8

Evidence for distinct prototype sequences within the Plasmodium falciparum Pf60 multigene family. Bonnefoy S, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):1-11

Molecular characterization of a P-glycoprotein-related tcpgp2 gene in Trypanosoma cruzi. Dallagiovanna B, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):145-57

Polymerase chain reaction-based gene disruption in Trypanosoma brucei. Gaud A, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):113-5

Tandem arrangement of two genes encoding kinetoplast-associated H1 histone-like proteins. Hines JC, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):41-9

Development of a polymerase chain reaction assay for the diagnosis of neosporosis using the Neospora caninum 14-3-3 gene. Lally NC, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):169-78

Characterisation of a second protein encoded by the differentially regulated LmcDNA16 gene family of Leishmania major. McKean PG, et al. **Mol Biochem Parasitol** 1997 Apr;85(2):221-31

A detailed mutational analysis of the VSG gene expression site promoter. Pham VP, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):241-54

A gene homologous to hgl2 of Entamoeba histolytica is present and expressed in Entamoeba dispar. Pillai DR, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):101-5

Conservation of key amino acids among the cysteine proteinases of multiple malarial species. Rosenthal PJ. **Mol Biochem Parasitol** 1996 Jan;75(2):255-60

The chromosomal organization of the Plasmodium falciparum var gene family is conserved. Thompson JK, et al. **Mol Biochem Parasitol** 1997 Jul;87(1):49-60

Toxoplasma gondii expressed sequence tags: insight into tachyzoite gene expression. Wan KL, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):179-86

Characterization of the delta-aminolevulinate synthase gene homologue in P. falciparum [corrected and republished in Mol Biochem Parasitol 1996 Jul;79(1):135-40] Wilson CM, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):271-6

Genetic approach to regulated exocytosis using functional complementation in Paramecium: identification of the ND7 gene required for membrane fusion. Skouri F, et al. **Mol Biol Cell** 1997 Jun;8(6):1063-71

Selection on the protein-coding genes of the TBE1 family of transposable elements in the ciliates Oxytricha fallax and O. trifallax. Witherspoon DJ, et al. **Mol Biol Evol** 1997 Jul;14(7):696-706

Expression of var genes located within polymorphic subtelomeric domains of Plasmodium falciparum chromosomes. Fischer K, et al. **Mol Cell Biol** 1997 Jul; 17(7):3679-86

Guinea Bissau: association of chloroquine resistance of Plasmodium falciparum with the Tyr86 allele of the multiple drug-resistance gene Pfmdr1 [letter; comment] Adagu IS, et al. **Trans R Soc Trop Med Hyg** 1996 Jan-Feb; 90(1):90-1. Comment on: Trans R Soc Trop Med Hyg 1995 Jul-Aug;89(4):436-7.

GENETICS

Polymorphisms in Trypanosoma cruzi: evidence of genetic recombination. Bogliolo AR, et al. **Acta Trop** 1996 Mar; 61(1):31-40

Identification of genes mediating lipophosphoglycan biosynthesis by functional complementation of Leishmania donovani mutants. Beverley SM, et al. **Ann Trop Med Parasitol** 1995 Dec;89 Suppl 1:11-17 (33 ref.)

A putative pyruvate dehydrogenase alpha subunit gene from Trypanosoma cruzi. Buscaglia CA, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1-2):53-7

The cytochrome oxidase subunit 1 gene (cox1) from the dinoflagellate, Crypthecodinium cohnii. Norman JE, et al. **FEBS Lett** 1997 Aug 18;413(2):333-8

Molecular cloning of actin genes in Trichomonas vaginalis and phylogeny inferred from actin sequences. Bricheux G, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):205-13

Molecular characterization of a sarcoplasmic-endoplasmic reticulum Ca+2 ATPase gene from Trichomonas vaginalis. Meade JC, et al. **J Eukaryot Microbiol** 1997 Sep-Oct; 44(5):480-6

Analysis of ribosomal RNA genes suggests that trypanosomes are monophyletic. Lukes J, et al. **J Mol Evol** 1997 May; 44(5):521-7

Families of adenylate cyclase genes in Trypanosoma brucei. Alexandre S, et al. **Mol Biochem Parasitol** 1996 May; 77(2):173-82

Cloning and characterization of the gene encoding pyruvate phosphate dikinase from Giardia duodenalis. Bruderer T, et al. **Mol Biochem Parasitol** 1996 May;77(2):225-33

Organization of trans-sialidase genes in Trypanosoma cruzi. Egima CM, et al. **Mol Biochem Parasitol** 1996 May; 77(2):115-25

Single copy Babesia microti hsp70. Jie HB, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):241-6

Sequence of a Giardia lamblia gene coding for the glycolytic enzyme, pyruvate,phosphate dikinase. Nevalainen L, et al. **Mol Biochem Parasitol** 1996 May;77(2):217-23

Cloning from Leishmania major of a developmentally regulated gene, c-lpk2, for the catalytic subunit of the cAMP-dependent protein kinase. Siman-Tov MM, et al. **Mol Biochem Parasitol** 1996 May;77(2):201-15

An unexpected 5' untranslated intron in the P. falciparum genes for histidine-rich proteins II and III. Sullivan DJ Jr, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):247-51

Expressed var genes are found in Plasmodium falciparum subtelomeric regions. Hernandez-Rivas R, et al. **Mol Cell Biol** 1997 Feb;17(2):604-11

Cloning of the entire COWP gene of Cryptosporidium parvum and ultrastructural localization of the protein during sexual parasite development. Spano F, et al. **Parasitology** 1997 May;114 (Pt 5):427-37

PHYSIOLOGY

Functional identification of a Leishmania gene related to the peroxin 2 gene reveals common ancestry of glycosomes and peroxisomes. Flaspohler JA, et al. **Mol Cell Biol** 1997 Mar;17(3):1093-101

GENES, STRUCTURAL, VIRAL

Sequence analysis of VP7 gene of a bovine rotavirus with G6 subtype. Mummidi S, et al. **Adv Exp Med Biol** 1997; 412:93-4

Suppression of tumor growth by the 3' untranslated region of mel-18 in 3Y1 cells transformed by the E6 and E7 genes of human papillomavirus type 18. Ishiwatari H, et al. **Cancer Lett** 1997 Jul 15;117(1):57-65

Endosomal fractions from viral K-ras-transformed MDCK cells reveal transformation specific changes on two-dimensional gel maps. Huber LA, et al. **Electrophoresis** 1996 Nov;17(11):1734-40

Sequence analysis of gene 3, gene 4 and gene 5 of avian infectious bronchitis virus strain CU-T2. Jia W, et al. **Gene** 1997 Apr 21;189(2):189-93

A mouse cytomegalovirus glycoprotein retains MHC class I complexes in the ERGIC/cis-Golgi compartments. Ziegler H, et al. **Immunity** 1997 Jan;6(1):57-66

Isogenic adenoviruses type 5 expressing or not expressing the E1A gene: efficiency as virus vectors in the vaccination of permissive and non-permissive species. Eloit M, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1583-9

Complementation of a potato virus X mutant mediated by bombardment of plant tissues with cloned viral movement protein genes. Morozov SYu, et al. **J Gen Virol** 1997 Aug; 78 (Pt 8):2077-83

Comparison of the coat protein genes of five fish nodaviruses, the causative agents of viral nervous necrosis in marine fish. Nishizawa T, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1563–9

Immunogenic, non–infectious polio subviral particles synthesized in Saccharomyces cerevisiae. Rombaut B, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1829–32

Identification of three lineages of wild measles virus by nucleotide sequence analysis of N, P, M, F, and L genes in Japan. Yamaguchi S. **J Med Virol** 1997 May;52(1):113–20

Head morphogenesis genes of the Bacillus subtilis bacteriophage SPP1. Becker B, et al. **J Mol Biol** 1997 May 23;268(5):822–39

Baculovirus gp64 gene expression: negative regulation by a minicistron. Chang MJ, et al. **J Virol** 1997 Oct; 71(10):7448–60

Multiple widely spaced elements determine the efficiency with which a distal cistron is expressed from the polycistronic pregenomic RNA of figwort mosaic caulimovirus. Edskes HK, et al. **J Virol** 1997 Feb; 71(2):1567–75

Effects of mutations in the Exo III motif of the herpes simplex virus DNA polymerase gene on enzyme activities, viral replication, and replication fidelity. Hwang YT, et al. **J Virol** 1997 Oct;71(10):7791–8

Derepression of prophage P2 by satellite phage P4: cloning of the P4 epsilon gene and identification of its product. Liu T, et al. **J Virol** 1997 Jun;71(6):4502–8

The adeno–associated virus type 2 p40 promoter requires a proximal Sp1 interaction and a p19 CArG–like element to facilitate Rep transactivation. Pereira DJ, et al. **J Virol** 1997 Jun;71(6):4300–9

The herpes simplex virus type 1 2.0–kilobase latency–associated transcript is a stable intron which branches at a guanosine. Zabolotny JM, et al. **J Virol** 1997 Jun;71(6):4199–208

Value of a ligase chain reaction assay for detection of ganciclovir resistance–related mutation 594 in UL97 gene of human cytomegalovirus. Bourgeois C, et al. **J Virol Methods** 1997 Sep;67(2):167–75

Detection of the disease severity–related molecular differences among new Thai dengue–2 isolates in 1993, based on their structural proteins and major non–structural protein NS1 sequences. Thant KZ, et al. **Microbiol Immunol** 1996;40(3):205–16

A Bcl–2 homolog encoded by Kaposi sarcoma–associated virus, human herpesvirus 8, inhibits apoptosis but does not heterodimerize with Bax or Bak. Cheng EH, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):690–4

DNA vaccination using expression vectors carrying FIV structural genes induces immune response against feline immunodeficiency virus. Cuisinier AM, et al. **Vaccine** 1997 Jul;15(10):1085–94

Efficient translation of distal cistrons of a polycistronic mRNA of a plant pararetrovirus requires a compatible interaction between the mRNA 3' end and the proteinaceous trans–activator. Edskes HK, et al. **Virology** 1996 Oct 15;224(2):564–7

Characterization of a unique OpMNPV–specific early gene not required for viral infection in tissue culture. Shippam C, et al. **Virology** 1997 Jan 20;227(2):447–59

Analysis of the haemagglutinin gene of current wild–type canine distemper virus isolates from Germany. Haas L, et al. **Virus Res** 1997 May;48(2):165–71

Sequence variation in the early genes E1E4, E6 and E7 of human papilloma virus type 6. Krige D, et al. **Virus Res** 1997 Jun;49(2):187–91

Clustering of haemagglutinin gene sequences of measles viruses isolated in the Gambia. Outlaw MC, et al. **Virus Res** 1997 May;48(2):125–31

Coupled PCR–restriction enzyme analysis for rapid identification of structural gene relationships among strains of eastern equine encephalitis virus. Strizki JM, et al. **Virus Res** 1996 Jul;43(1):69–75

Experimental confirmation of recombination upstream of the S1 hypervariable region of infectious bronchitis virus. Wang L, et al. **Virus Res** 1997 Jun;49(2):139–45

[Similarities and differences between western equine encephalomyelitis viruses with respect to genes for nonstructural protein NSP2 and structural proteins C and E2] Sokolova TM, et al. **Vopr Virusol** 1996 Sep–Oct; 41(5):209–14 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Specific inhibition of influenza virus RNA polymerase and nucleoprotein genes expression by liposomally endocapsulated antisense phosphorothioate oligonucleotides: penetration and localization of oligonucleotides in clone 76 cells. Hatta T, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):545–9

Inhibition of HTLV–I induction and virus–induced syncytia formation by oligodeoxynucleotides. Miyano–Kurosaki N, et al. **Virus Genes** 1996;12(3):205–17

GENETICS

Cloning and nucleotide sequence of the major capsid proteins of Lactobacillus bacteriophage phi gle. Kakikawa M, et al. **Gene** 1996 Oct 10;175(1–2):157–65

Accumulation and persistence of hepatitis B virus core gene deletion mutants in renal transplant patients are associated with end–stage liver disease. Günther S, et al. **Hepatology** 1996 Oct;24(4):751–8

Identification of envelope glycoproteins H and B homologues of human herpesvirus 7. Secchiero P, et al. **Intervirology** 1997;40(1):22–32

Extensive nucleotide changes and deletions within the envelope glycoprotein gene of Euro–African West Nile viruses. Berthet FX, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2293–7

Natural 30 base pair and 69 base pair deletion variants of the LMP1 oncogene do stimulate NF–kappaB–mediated transcription. Rothenberger S, et al. **Oncogene** 1997 May 1;14(17):2123–6

Identification and characterization of the bovine herpesvirus 5 US4 gene and gene products. Engelhardt T, et al. **Virology** 1996 Nov 1;225(1):126–35

[A comparative phylogenetic analysis of the coding portion of the genes for structural protein E1 in the Shi–Min' strain and in other strains of the classic hog cholera virus] Kyrylenko SD, et al. **Tsitol Genet** 1997 May–Jun; 31(3):54–60 (Eng. Abstr.) **(Ukr)**

IMMUNOLOGY

DNA inoculation with a plasmid vector carrying the hepatitis E virus structural protein gene induces immune response in mice. He J, et al. **Vaccine** 1997 Mar;15(4):357–62

GENES, SUPPRESSOR

see related

SUPPRESSION, GENETIC

The Epstein–Barr virus gene BHRF1, a homologue of the cellular oncogene Bcl–2, inhibits apoptosis induced by gamma radiation and chemotherapeutic drugs. McCarthy NJ, et al. **Adv Exp Med Biol** 1996;406:83–97

Isolation and characterization of Saccharomyces cerevisiae SAB2, a suppressor gene for temperature–sensitive phenotype of ARS–binding factor 1 mutant. Shin YH, et al. **Biochem Mol Biol Int** 1996 Nov;40(5):915–21

An approach to identify functional homologues and suppressors of genes in fission yeast. Grallert B, et al. **Curr Genet** 1997 Jul;32(1):27–31

The SAR1 gene of Arabidopsis acts downstream of the AXR1 gene in auxin response. Cernac A, et al. **Development** 1997 Apr;124(8):1583–91

Mutation in a new gene MAF1 affects tRNA suppressor efficiency in Saccharomyces cerevisiae. Boguta M, et al. **Gene** 1997 Feb 7;185(2):291–6

Isolation and characterization of suppressors of two Escherichia coli dnaG mutations, dnaG2903 and parB. Britton RA, et al. **Genetics** 1997 Apr;145(4):867–75

A dominant mutation in the Chlamydomonas reinhardtii nuclear gene SIM30 suppresses translational defects caused by initiation codon mutations in chloroplast genes. Chen X, et al. **Genetics** 1997 Apr;145(4):935–43

Genetic and molecular analysis of a tRNA(Leu) missense suppressor of nudC3, a mutation that blocks nuclear migration in Aspergillus nidulans. Chiu YH, et al. **Genetics** 1997 Mar;145(3):707–14

Dosage suppressors of a benomyl–dependent tubulin mutant: evidence for a link between microtubule stability and cellular metabolism. Machin NA, et al. **Genetics** 1996 Dec; 144(4):1363–73

Saccharomyces cerevisiae HOC1, a suppressor of pkc1, encodes a putative glycosyltransferase. Neiman AM, et al. **Genetics** 1997 Mar;145(3):637–45

Extragenic suppressors of the Arabidopsis det1 mutant identify elements of flowering–time and light–response regulatory pathways. Pepper AE, et al. **Genetics** 1997 Apr; 145(4):1125–37

Analysis of dominant enhancers and suppressors of activated Notch in Drosophila. Verheyen EM, et al. **Genetics** 1996 Nov;144(3):1127–41

A highly conserved apoptotic suppressor gene is located near the chicken T–cell receptor alpha chain constant region. Wang K, et al. **Immunogenetics** 1997;46(5):376–82

Retarding photoreceptor degeneration in Pdegtm1/Pdegtml mice by an apoptosis suppressor gene. Tsang SH, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):943–50

A Salmonella typhimurium genetic locus which confers copper tolerance on copper–sensitive mutants of Escherichia coli. Gupta SD, et al. **J Bacteriol** 1997 Aug; 179(16):4977–84

Increased unsaturated fatty acid production associated with a suppressor of the fabA6(Ts) mutation in Escherichia coli. Rock CO, et al. **J Bacteriol** 1996 Sep;178(18):5382–7

Function of the Escherichia coli msbB gene, a multicopy suppressor of htrB knockouts, in the acylation of lipid A. Acylation by MsbB follows laurate incorporation by HtrB. Clementz T, et al. **J Biol Chem** 1997 Apr 18; 272(16):10353–60

High levels of the GTPase Ran/TC4 relieve the requirement for nuclear protein transport factor 2. Paschal BM, et al. **J Biol Chem** 1997 Aug 22;272(34):21534–9

Expression of the Autographa californica nuclear polyhedrosis virus apoptotic suppressor gene p35 in nonpermissive Spodoptera littoralis cells. Gershburg E, et al. **J Virol** 1997 Oct;71(10):7593–9

Isolation of genetic suppressor elements (GSEs) from random fragment cDNA libraries in retroviral vectors. Gudkov AV, et al. **Methods Mol Biol** 1997;69:221–40

CDC37 is required for p60v–src activity in yeast. Dey B, et al. **Mol Biol Cell** 1996 Sep;7(9):1405–17

Yeast counterparts of subunits S5a and p58 (S3) of the human 26S proteasome are encoded by two multicopy suppressors of nin1–1. Kominami K, et al. **Mol Biol Cell** 1997 Jan; 8(1):171–87

Mcs4 mitotic catastrophe suppressor regulates the fission yeast cell cycle through the Wik1–Wis1–Spc1 kinase cascade. Shiozaki K, et al. **Mol Biol Cell** 1997 Mar; 8(3):409–19

Mutations in the homologous ZDS1 and ZDS2 genes affect cell cycle progression. Yu Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5254–63

Genetic interaction of DED1 encoding a putative ATP–dependent RNA helicase with SRM1 encoding a mammalian RCC1 homolog in Saccharomyces cerevisiae. Hayashi N, et al. **Mol Gen Genet** 1996 Nov 27; 253(1–2):149–56

Mutations in the heavy chain of cytoplasmic dynein suppress the nudF nuclear migration mutation of Aspergillus nidulans. Willins DA, et al. **Mol Gen Genet** 1997 Jun; 255(2):194–200

The Bacillus subtilis soj–spo0J locus is required for a centromere–like function involved in prespore chromosome partitioning. Sharpe ME, et al. **Mol Microbiol** 1996 Aug;21(3):501–9

Sce3, a suppressor of the Schizosaccharomyces pombe septation mutant cdc11, encodes a putative RNA–binding protein. Schmidt S, et al. **Nucleic Acids Res** 1997 Sep 1; 25(17):3433–9

Transfer RNA–mediated suppression of amber stop codons in transgenic Arabidopsis thaliana. Betzner AS, et al. **Plant J** 1997 Mar;11(3):587–95

Transactivation of a target gene using a suppressor tRNA in transgenic tobacco plants. Choisne N, et al. **Plant J** 1997 Mar;11(3):597–604

The p20 and Ded1 proteins have antagonistic roles in eIF4E–dependent translation in Saccharomyces cerevisiae. de la Cruz J, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5201–6

Developmental signal transduction pathways uncovered by genetic suppressors. Shaulsky G, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15260–5

SHM1: a multicopy suppressor of a temperature–sensitive null mutation in the HMG1–like abf2 gene. Kao LR, et al. **Yeast** 1996 Sep 30;12(12):1239–50

Cloning of the multicopy suppressor gene SUR7: evidence for a functional relationship between the yeast actin–binding protein Rvs167 and a putative membranous protein. Sivadon P, et al. **Yeast** 1997 Jun 30;13(8):747–61

GENETICS

Folate deficiency in rats induces DNA strand breaks and hypomethylation within the p53 tumor suppressor gene. Kim YI, et al. **Am J Clin Nutr** 1997 Jan;65(1):46–52

Multicopy suppressors of temperature–sensitive mutations of yeast mRNA capping enzyme. Schwer B, et al. **Gene Expr** 1996;5(6):331–44

The Schizosaccharomyces pombe mra1 gene, which is required for cell growth and mating, can suppress the mating inefficiency caused by a deficit in the Ras1 activity. Hakuno F, et al. **Genes Cells** 1996 Mar;1(3):303–15

Isolation and characterization of SYS genes from yeast, multicopy suppressors of the functional loss of the transport GTPase Ypt6p. Tsukada M, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2471–81

The alpha subunit of RNA polymerase and transcription antitermination. Schauer AT, et al. **Mol Microbiol** 1996 Aug;21(4):839–51

High–resolution functional mapping of a cloned gene by genetic footprinting. Singh IR, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1304–9

Characterization of the SAC3 gene of Saccharomyces cerevisiae. Bauer A, et al. **Yeast** 1996 Aug;12(10):965–75

GENES, SUPPRESSOR, TUMOR

Homozygous deletions of the CDKN2/p16 gene in dural hemangiopericytomas. Ono Y, et al. **Acta Neuropathol (Berl)** 1996;91(3):221–5

Deletions of the short arm of chromosome 3 in solid tumors and the search for suppressor genes. Kok K, et al. **Adv Cancer Res** 1997;71:27–92 (417 ref.)

Strategies for approaching retinoblastoma tumor suppressor gene therapy. Xu HJ. **Adv Pharmacol** 1997;40:369–97 (145 ref.)

Aberrant methylation in cancer [editorial; comment] Versteeg R. **Am J Hum Genet** 1997 Apr;60(4):751–4. Comment on: Am J Hum Genet 1997 Apr;60(4):765–71.

Deletion of PTEN in a patient with Bannayan–Riley–Ruvalcaba syndrome suggests allelism with Cowden disease. Arch EM, et al. **Am J Med Genet** 1997 Sep 5;71(4):489–93

Allelic deletions of the VHL gene detected in multiple microscopic clear cell renal lesions in von Hippel–Lindau disease patients. Lubensky IA, et al. **Am J Pathol** 1996 Dec;149(6):2089–94

WAF1/Cip1 gene polymorphism and expression in carcinomas of the breast, ovary, and endometrium. Lukas J, et al. **Am J Pathol** 1997 Jan;150(1):167–75

Expression of the TSC2 product tuberin and its target Rap1 in normal human tissues. Wienecke R, et al. **Am J Pathol** 1997 Jan;150(1):43–50

Sustained cardiomyocyte DNA synthesis in whole embryo

cultures lacking the TSC2 gene product. Pajak L, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1619–27

Tracking the MEN1 gene. Ebrahimi SA, et al. **Am J Surg** 1997 Sep;174(3):266–70 (23 ref.)

Genetic linkage studies for the identification of cancer-related genes. Brancolini V, et al. **Ann Ist Super Sanita** 1996;32(1):173–80 (45 ref.)

Oncogenes and onco-suppressor genes in female genital cancer. Koffa M, et al. **Ann N Y Acad Sci** 1997 Jun 17; 816:347–55 (58 ref.)

Reduced TSC2 RNA and protein in sporadic astrocytomas and ependymomas. Wienecke R, et al. **Ann Neurol** 1997 Aug;42(2):230–5

Absence of p16 gene (CDKN2) deletions in microdissected primary breast carcinoma specimens. Calvano JE, et al. **Ann Surg Oncol** 1997 Jul–Aug;4(5):416–20

Tumor suppressor gene mutations in mice. Jacks T. **Annu Rev Genet** 1996;30:603–36 (171 ref.)

Transformation of human glioma cell lines with the p16 gene inhibits cell proliferation. Hama S, et al. **Anticancer Res** 1997 May–Jun;17(3C):1933–8

Differential implications of the oncogene–tumor suppressor gene complex in the geneses of 19 human neoplasias. Evidence in support of the steroid carcinogenesis hypothesis. Kodama M, et al. **Anticancer Res** 1997 May–Jun;17(3C):2285–92

Molecular genetics and tumour suppressor genes in gliomas. Kyritsis AP, et al. **Baillieres Clin Neurol** 1996 Jun; 5(2):295–305 (78 ref.)

Loss of expression of the p16 gene is frequent in malignant skin tumors. Chang TG, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):85–8

Genetic alterations of p16INK4a and p53 genes in sporadic dysplastic nevus. Lee JY, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):667–72

Activation but not inactivation of the MTS1 gene is associated with primary colorectal carcinomas. Ohhara M, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):791–5

Isolation and characterization of the murine homolog of the human EXT2 multiple exostoses gene. Stickens D, et al. **Biochem Mol Med** 1997 Jun;61(1):16–21

Towards a unified model of tumor suppression: lessons learned from the human patched gene. Dean M. **Biochim Biophys Acta** 1997 Apr 18;1332(2):M43–52 (79 ref.)

The FHIT gene, a multiple tumor suppressor gene encompassing the carcinogen sensitive chromosome fragile site, FRA3B. Huebner K, et al. **Biochim Biophys Acta** 1997 Jun 7;1332(3):M65–70 (25 ref.)

Cancer genetics and tumor suppressor genes. Sponsored by Cold Spring Harbor Laboratory—August 14–18, 1996. Livingston DM. **Biochim Biophys Acta** 1997 Apr 18; 1332(2):R25–31

Contribution of oncogenes and tumor suppressor genes to myeloid leukemia. Wolff L. **Biochim Biophys Acta** 1997 Jun 7;1332(3):F67–104 (352 ref.)

Molecular investigation of secondary chronic myeloid leukemia [letter] Aguiar RC, et al. **Blood** 1996 Oct 1; 88(7):2808–9

Homozygous deletion of the p16/MTS1 gene in pediatric acute lymphoblastic leukemia is associated with unfavorable clinical outcome. Kees UR, et al. **Blood** 1997 Jun 1;89(11):4161–6

Deletions and loss of expression of p16INK4a and p21Waf1 genes are associated with aggressive variants of mantle cell lymphomas. Pinyol M, et al. **Blood** 1997 Jan 1;89(1):272–80

Hypermethylation of the p15INK4B gene in myelodysplastic syndromes. Uchida T, et al. **Blood** 1997 Aug 15; 90(4):1403–9

Localization of a breast cancer tumour-suppressor gene to a 3-cM interval within chromosomal region 16q22. Iida A, et al. **Br J Cancer** 1997;75(2):264–7

Transfer of p16inka/CDKN2 gene in leukaemic cell lines inhibits cell proliferation. Quesnel B, et al. **Br J Haematol** 1996 Nov;95(2):291–8

Association of EGFR gene amplification and CDKN2 (p16/MTS1) gene deletion in glioblastoma multiforme. Hayashi Y, et al. **Brain Pathol** 1997 Jul;7(3):871–5

Does tuberin function as a tumor suppressor in the cerebral lesions of tuberous sclerosis? Early observations [editorial; comment] Short MP. **Brain Pathol** 1996 Oct;6(4):375–6. Comment on: Brain Pathol 1996 Oct;6(4):367–77.

The significance of allelic deletions and aneuploidy in colorectal carcinoma. Results of a 5-year follow-up study. Cohn KH, et al. **Cancer** 1997 Jan 15;79(2):233–44

p16 tumor suppressor gene mutations in Chinese esophageal carcinomas in Hong Kong. Chan WC, et al. **Cancer Lett** 1997 May 19;115(2):201–6

Increase in radiation sensitivity of human malignant melanoma cells by expression of wild-type p16 gene. Matsumura Y, et al. **Cancer Lett** 1997 May 1;115(1):91–6

Molecular approaches to diagnosis and management of ovarian cancer. Katso RM, et al. **Cancer Metastasis Rev** 1997 Jun;16(1–2):81–107 (268 ref.)

Identification of a gene containing zinc-finger motifs based on lost expression in malignantly transformed rat ovarian surface epithelial cells. Abdollahi A, et al. **Cancer Res** 1997 May 15;57(10):2029–34

Deletion mapping of two potential chromosome 14 tumor suppressor gene loci in ovarian carcinoma. Bandera CA, et al. **Cancer Res** 1997 Feb 1;57(3):513–5

Allelic imbalance and microsatellite instability in prostatic adenocarcinoma. Cunningham JM, et al. **Cancer Res** 1996 Oct 1;56(19):4475–82

Down-regulation of the KAI1 metastasis suppressor gene during the progression of human prostatic cancer infrequently involves gene mutation or allelic loss. Dong JT, et al. **Cancer Res** 1996 Oct 1;56(19):4387–90

Loss of the p16INK4a and p15INK4b genes, as well as neighboring 9p21 markers, in sporadic melanoma. Flores JF, et al. **Cancer Res** 1996 Nov 1;56(21):5023–32

The putative tumor suppressor gene FHIT at 3p14.2 is rarely affected by loss of heterozygosity in primary human brain tumors. Frank S, et al. **Cancer Res** 1997 Jul 1; 57(13):2638–41

Localization and characterization of a chromosome 11 tumor suppressor gene using organotypic raft cultures. Gioeli D, et al. **Cancer Res** 1997 Mar 15;57(6):1157–65

Induction of p21waf1 expression and growth inhibition by transforming growth factor beta involve the tumor suppressor gene DPC4 in human pancreatic adenocarcinoma cells. Grau AM, et al. **Cancer Res** 1997 Sep 15;57(18):3929–34

KAI1 expression is up-regulated in early pancreatic cancer and decreased in the presence of metastases. Guo X, et al. **Cancer Res** 1996 Nov 1;56(21):4876–80

Abnormal FHIT transcripts in human breast carcinomas: a clinicopathological and epidemiological analysis of 61 Japanese cases. Hayashi S, et al. **Cancer Res** 1997 May 15;57(10):1981–5

HIC1 hypermethylation is a late event in hematopoietic neoplasms. Issa JP, et al. **Cancer Res** 1997 May 1; 57(9):1678–81

Somatic mutations of the von Hippel–Lindau tumor suppressor gene and loss of heterozygosity on chromosome 3p in human glial tumors. Kanno H, et al. **Cancer Res** 1997 Mar 15;57(6):1035–8

Identification of three distinct tumor suppressor loci on the short arm of chromosome 9 in small cell lung cancer. Kim SK, et al. **Cancer Res** 1997 Feb 1;57(3):400–3

A tumor suppressor gene, Cx26, also mediates the bystander effect in HeLa cells. Mesnil M, et al. **Cancer Res** 1997 Jul 15;57(14):2929–32

Identification of a 790-kilobase region of common allelic loss in chromosome 10q25–q26 in human endometrial cancer. Nagase S, et al. **Cancer Res** 1997 May 1;57(9):1630–3

The FHIT and PTPRG genes are deleted in benign proliferative breast disease associated with familial breast cancer and cytogenetic rearrangements of chromosome band 3p14. Panagopoulos I, et al. **Cancer Res** 1996 Nov 1;56(21):4871–5

A malignant melanoma tumor suppressor on human chromosome 11. Robertson G, et al. **Cancer Res** 1996 Oct 1;56(19):4487–92

Tumor-suppressive pathways in pancreatic carcinoma. Rozenblum E, et al. **Cancer Res** 1997 May 1;57(9):1731–4

Evidence for two tumor suppressor loci associated with proximal chromosome 9p to q and distal chromosome 9q in bladder cancer and the initial screening for GAS1 and PTC mutations. Simoneau AR, et al. **Cancer Res** 1996 Nov 1;56(21):5039–43

Deletion map of chromosome 9 and p16 (CDKN2A) gene alterations in neuroblastoma. Takita J, et al. **Cancer Res** 1997 Mar 1;57(5):907–12

Mutations in PTEN are frequent in endometrial carcinoma but rare in other common gynecological malignancies. Tashiro H, et al. **Cancer Res** 1997 Sep 15;57(18):3935–40

p16INK4a promoter is hypermethylated at a high frequency in esophageal adenocarcinomas. Wong DJ, et al. **Cancer Res** 1997 Jul 1;57(13):2619–22

CDKN2 mutations in melanoma. Dracopoli NC, et al. **Cancer Surv** 1996;26:115–32 (72 ref.)

Von Hippel–Lindau syndrome: hereditary cancer arising from inherited mutations of the VHL tumor suppressor gene. Humphrey JS, et al. **Cancer Treat Res** 1996;88:13–39 (81 ref.)

Absence of p16/MTS1 gene mutations in human prostate cancer. Chen W, et al. **Carcinogenesis** 1996 Dec; 17(12):2603–7

Mutational spectra: from model systems to cancer-related genes. Dogliotti E. **Carcinogenesis** 1996 Oct;17(10):2113–8 (48 ref.)

Oncoprotein networks. Hunter T. **Cell** 1997 Feb 7; 88(3):333–46 (126 ref.)

Activation of tumor suppressor genes in nontumorigenic revertants of the HeLa cervical carcinoma cell line. Boylan MO, et al. **Cell Growth Differ** 1996 Jun;7(6):725–35

Increased expression of cyclin D1 in a murine mammary epithelial cell line induces p27kip1, inhibits growth, and enhances apoptosis. Han EK, et al. **Cell Growth Differ** 1996 Jun;7(6):699–710

Gap junction genes Cx26 and Cx43 individually suppress the cancer phenotype of human mammary carcinoma cells and restore differentiation potential. Hirschi KK, et al. **Cell Growth Differ** 1996 Jul;7(7):861–70

Transfer of chromosome 18 into human head and neck squamous carcinoma cells: evidence for tumor suppression by Smad4/DPC4. Reiss M, et al. **Cell Growth Differ** 1997 Apr;8(4):407–15

Effects of cyclin E overexpression on cell growth and response to transforming growth factor beta depend on cell context and p27Kip1 expression. Sgambato A, et al. **Cell Growth Differ** 1997 Apr;8(4):393–405

Murine hepatic p53, RB, and CDK inhibitory protein expression following acute 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure. Rininger JA, et al. **Chemosphere** 1997 Mar–Apr; 34(5–7):1557–68

Reduced tumorigenicity of metastatic human lung cancer cell subline (PGCL3) transfected with hRAR beta gene. Zhu W, et al. **Chin Med Sci J** 1996 Mar;11(1):13–6

Clinical applications of tumor suppressor genes and oncogenes in cancer. Diamandis EP. **Clin Chim Acta** 1997 Jan 17;257(2):157–80

Oncogene- and tumor-suppressor gene-related proteins in plants and fungi. Loidl A, et al. **Crit Rev Oncog** 1996; 7(1–2):49–64 (93 ref.)

The Drosophila tumor suppressor gene, dlg, is involved in structural plasticity at a glutamatergic synapse. Guan B, et al. **Curr Biol** 1996 Jun 1;6(6):695–706

Carcinogenesis: a balance between beta-catenin and APC. Gumbiner BM. **Curr Biol** 1997 Jul 1;7(7):R443–6 (26 ref.)

The tumor suppressor Smad4/DPC 4 as a central mediator of Smad function. Zhang Y, et al. **Curr Biol** 1997 Apr 1; 7(4):270–6

Recent advances in breast cancer biology. Blackwood MA, et al. **Curr Opin Oncol** 1996 Nov;8(6):449–54 (49 ref.)

The type II transforming growth factor–beta receptor as a tumor-suppressor gene. Brattain MG, et al. **Curr Opin Oncol** 1996 Jan;8(1):49–53 (26 ref.)

The current situation with regard to human melanoma and genetic inferences. Hayward NK. **Curr Opin Oncol** 1996 Mar;8(2):136–42 (69 ref.)

Molecular genetics and molecular biology advances in brain tumors. James CD, et al. **Curr Opin Oncol** 1996 May; 8(3):188–95 (64 ref.)

Cellular localization and chromosome mapping of a novel candidate tumor suppressor gene (ING1). Garkavtsev I, et al. **Cytogenet Cell Genet** 1997;76(3–4):176–8

Tumor suppressor activity of the TGF-beta pathway in human cancers [see comments] Markowitz SD, et al. **Cytokine Growth Factor Rev** 1996 Jun;7(1):93–102 (123 ref.) . Comment in: Cytokine Growth Factor Rev 1996 Dec;7(4):295.

Genomic sequencing of DPC4 in the analysis of familial pancreatic carcinoma. Moskaluk CA, et al. **Diagn Mol Pathol** 1997 Apr;6(2):85–90

Correlative immunohistochemistry and molecular genetic study of the inactivation of the p16INK4A genes in astrocytomas. Rao LS, et al. **Diagn Mol Pathol** 1997 Apr; 6(2):115–22

Dinucleotide repeat in the third intron of the FABP3/MDGI putative tumor suppressor gene. Arlt MF, et al. **Dis Markers** 1996 Aug;13(1):57–9

Enhanced expression in spleen macrophages of the mouse homolog to the human putative tumor suppressor gene ZFM1. Wrehlke C, et al. **DNA Cell Biol** 1997 Jun; 16(6):761–7

Screening for renal carcinoma associated mutations in the von Hippel–Lindau tumor suppressor gene by temperature gradient gel electrophoresis. Wenzel M, et al. **Electrophoresis** 1997 Jan;18(1):45–51

Control of differentiation, transformation, and apoptosis in granulosa cells by oncogenes, oncoviruses, and tumor suppressor genes. Amsterdam A, et al. **Endocr Rev** 1997 Aug;18(4):435–61 (367 ref.)

The biology of replicative senescence. Campisi J. **Eur J Cancer** 1997 Apr;33(5):703–9 (79 ref.)

Molecular pathogenesis of thyroid cancer: the significance of oncogenes, tumor suppressor genes, and genomic instability. Farid NR. **Exp Clin Endocrinol Diabetes** 1996; 104 Suppl 4:1–12 (111 ref.)

A juvenile polyposis tumor suppressor locus at 10q22 is deleted from nonepithelial cells in the lamina propria. Jacoby RF, et al. **Gastroenterology** 1997 Apr; 112(4):1398–403

Somatic alterations of the DPC4 gene in human colorectal cancers in vivo [see comments] Takagi Y, et al. **Gastroenterology** 1996 Nov;111(5):1369–72. Comment in: Gastroenterology 1996 Nov;111(5):1387–9.

Fluorescence in situ hybridization deletion mapping at 4p16.3 in bladder cancer cell lines refines the localisation of the critical interval to 30 kb. Bell SM, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):108–17

A 3p21.3 region is preferentially eliminated from human chromosome 3/mouse microcell hybrids during tumor growth in SCID mice. Kholodnyuk I, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):200–11

Detailed deletion mapping on chromosome arm 12q in human pancreatic adenocarcinoma: identification of a I-cM region of common allelic loss. Kimura M, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):88–93

Frequent loss of heterozygosity in the region of the D7S523 locus in advanced ovarian cancer. Koike M, et al. **Genes Chromosomes Cancer** 1997 May;19(1):1–5

Patterns of allelic loss on chromosome 17 in sporadic breast carcinomas detected by fluorescent-labeled microsatellite analysis. Niederacher D, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):181–92

Compilation of somatic mutations of the CDKN2 gene in human cancers: non-random distribution of base substitutions. Pollock PM, et al. **Genes Chromosomes Cancer** 1996 Feb;15(2):77–88 (69 ref.)

Comparative allelotype of early and advanced stage non-small cell lung carcinomas. Shiseki M, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):71–7

Evidence for multiple tumor suppressor genes on chromosome arm 8p in supraglottic laryngeal cancer. Sunwoo JB, et al. **Genes Chromosomes Cancer** 1996 Jul; 16(3):164–9

Loss of heterozygosity studies indicate that chromosome arm 1p harbors a tumor supressor gene for renal oncocytomas. Thrash-Bingham CA, et al. **Genes Chromosomes Cancer** 1996 May;16(1):64–7

Construction of a 5–Mb YAC contig from the putative 10q25 tumor–suppressor region for glioblastomas. Albarosa R, et al. **Genomics** 1997 May 1;41(3):345–9

DLG1: chromosome location of the closest human homologue of the Drosophila discs large tumor suppressor gene. Azim AC, et al. **Genomics** 1995 Dec 10;30(3):613–6

Definition of the minimal MEN1 candidate area based on a 5–Mb integrated map of proximal 11q13. The European Consortium on Men1, (GENEM 1; Groupe d'Etude des Néoplasies Endocriniennes Multiples de type 1). Courseaux A, et al. **Genomics** 1996 Nov 1;37(3):354–65

Genomic organization of the human KAI1 metastasis–suppressor gene. Dong JT, et al. **Genomics** 1997 Apr 1;41(1):25–32

Mapping of a putative tumor suppressor locus to proximal 7p in Wilms tumors. Miozzo M, et al. **Genomics** 1996 Nov 1;37(3):310–5

Physical mapping of a commonly deleted region, the site of a candidate tumor suppressor gene, at 12q22 in human male germ cell tumors. Murty VV, et al. **Genomics** 1996 Aug 1;35(3):562–70

The Bin1 gene localizes to human chromosome 2q14 by PCR analysis of somatic cell hybrids and fluorescence in situ hybridization. Negorev D, et al. **Genomics** 1996 Apr 15; 33(2):329–31

Germ–line mutations of the p16INK4(MTS1) gene occur in a subset of patients with hepatocellular carcinoma. Chaubert P, et al. **Hepatology** 1997 Jun;25(6):1376–81

Inactivation of p16INK4 in hepatocellular carcinoma. Hui AM, et al. **Hepatology** 1996 Sep;24(3):575–9

Tumour suppressor genes in the pathogenesis of human pituitary tumours. Clayton RN, et al. **Horm Res** 1997; 47(4–6):185–93 (22 ref.)

The human homolog of the rodent immediate early response genes, PC4 and TIS7, resides in the lung cancer tumor suppressor gene region on chromosome 3p21. Latif F, et al. **Hum Genet** 1997 Mar;99(3):334–41

Identification of novel 'expressed sequence tags' within the FHIT gene locus in human chromosome region 3p14.2. Lux A, et al. **Hum Genet** 1997 Jul;100(1):90–5

Isolation and characterization of the full–length 3' untranslated region of the human von Hippel–Lindau tumor suppressor gene. Renbaum P, et al. **Hum Genet** 1996 Dec;98(6):666–71

Identification of novel mutations in the human EXT1 tumor suppressor gene. Wells DE, et al. **Hum Genet** 1997 May; 99(5):612–5

A novel candidate tumour suppressor locus at 9q32–33 in bladder cancer: localization of the candidate region within a single 840 kb YAC. Habuchi T, et al. **Hum Mol Genet** 1997 Jun;6(6):913–9

Mouse/human sequence divergence in a region with a paternal–specific methylation imprint at the human H19 locus. Jinno Y, et al. **Hum Mol Genet** 1996 Aug; 5(8):1155–61

Localization of a tumor suppressor gene in 11p15.5 using the G401 Wilms' tumor assay. Reid LH, et al. **Hum Mol Genet** 1996 Feb;5(2):239–47

Expression of the von Hippel–Lindau disease tumour suppressor gene during human embryogenesis. Richards FM, et al. **Hum Mol Genet** 1996 May;5(5):639–44

Mutational scanning of large genes by extensive PCR multiplexing and two–dimensional electrophoresis: application to the RB1 gene. Van Orsouw NJ, et al. **Hum Mol Genet** 1996 Jun;5(6):755–61

An extended region of biallelic gene expression and rodent–human synteny downstream of the imprinted H19 gene on chromosome 11p15.5. Yuan L, et al. **Hum Mol Genet** 1996 Dec;5(12):1931–7

Germline mutations in the Von Hippel–Lindau disease (VHL) gene in families from North America, Europe, and Japan. Zbar B, et al. **Hum Mutat** 1996;8(4):348–57

Frequent detection of aberrant RNA transcripts of the CDKN2 gene in human gastric adenocarcinoma. Chen YJ, et al. **Int J Cancer** 1997 May 2;71(3):350–4

Alteration of p16 and p15 genes in common epithelial ovarian tumors. Fujita M, et al. **Int J Cancer** 1997 Apr 22; 74(2):148–55

Mutations and polymorphisms in the p53, p21 and p16 genes in oral carcinomas of Indian betel quid chewers. Heinzel PA, et al. **Int J Cancer** 1996 Nov 15;68(4):420–3

Abrogation of apoptosis induced by DNA–damaging agents in human bladder–cancer cell lines with p21/WAF1/CIP1 and/or p53 gene alterations. Kawasaki T, et al. **Int J Cancer** 1996 Nov 15;68(4):501–5

Identification of highly expressed genes in metastasis–suppressed chromosome 6/human malignant melanoma hybrid cells using subtractive hybridization and differential display. Lee JH, et al. **Int J Cancer** 1997 Jun 11;71(6):1035–44

A genetic screen for tumor suppressor genes in the mouse. Bradley A. **Int J Dev Biol** 1996;Suppl 1:59S–60S

Drosophila differentiation genes instrumental in tumor suppression. Gateff E, et al. **Int J Dev Biol** 1996 Feb; 40(1):149–56 (61 ref.)

Developmental regulation of a vertebrate homologue of the Drosophila dlg tumor suppressor gene. Gorry P, et al. **Int J Dev Biol** 1996;Suppl 1:295S–296S

Tumor suppressor genes as negative growth regulators in development and differentiation. Gutmann DH. **Int J Dev Biol** 1995 Dec;39(6):895–908 (100 ref.)

Cytokine, cell adhesion receptor, and tumor suppressor gene expression in vulvar squamous carcinoma: correlation with prominent fibromyxoid stromal response. Ambros RA, et al. **Int J Gynecol Pathol** 1996 Oct;15(4):320–5

A possible tumor suppressor gene for parathyroid adenomas. Iwasaki H. **Int Surg** 1996 Jan–Mar;81(1):71–6

The fourth armadillo repeat of plakoglobin (gamma–catenin) is required for its high affinity binding to the cytoplasmic domains of E–cadherin and desmosomal cadherin Dsg2, and the tumor suppressor APC protein. Ozawa M, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1077–82

Characterization of functional domains within Smad4/DPC4. de Caestecker MP, et al. **J Biol Chem** 1997 May 23; 272(21):13690–6

The linoleic acid metabolite, (13S)–hydroperoxyoctadecadienoic acid, augments the epidermal growth factor receptor signaling pathway by attenuation of receptor dephosphorylation. Differential response in Syrian hamster embryo tumor suppressor phenotypes. Glasgow WC, et al. **J Biol Chem** 1997 Aug 1;272(31):19269–76

Hypoxia–inducible protein binding to vascular endothelial growth factor mRNA and its modulation by the von Hippel–Lindau protein. Levy AP, et al. **J Biol Chem** 1996 Oct 11;271(41):25492–7

Growth–inhibitory activity and downregulation of the class II tumor–suppressor gene H–rev107 in tumor cell lines and experimental tumors. Sers C, et al. **J Cell Biol** 1997 Feb 24;136(4):935–44

A tumor–associated glycosylation change in the glucose transporter GLUT1 controlled by tumor suppressor function in human cell hybrids. Kitagawa T, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3735–43

Deletions of p15 and/or p16 genes as a poor–prognosis factor in adult T–cell leukemia. Yamada Y, et al. **J Clin Oncol** 1997 May;15(5):1778–85

Lineage–specific CaN19 expression in human skin: lack of expression in normal melanocytes. Andersen LB, et al. **J Dermatol Sci** 1996 Apr;12(1):69–72

Alterations in the tumor suppressor genes p53, RB, p16/MTS1, and p15/MTS2 in human pancreatic cancer and hepatoma cell lines. Kaino M. **J Gastroenterol** 1997 Feb;32(1):40–6

Epidermal growth factor–stimulated production of esterified 13(S)–hydroxyoctadecadienoic acid is associated with tumor suppressor phenotype in Syrian hamster embryo fibroblasts. Hui R, et al. **J Lipid Res** 1997 Jan;38(1):49–60

Localisation of a gene causing endocrine neoplasia to a 4 cM region on chromosome 1p35–p36. Williamson C, et al. **J Med Genet** 1997 Aug;34(8):617–9

DR–nm23 gene expression in neuroblastoma cells: relationship to integrin expression, adhesion characteristics, and differentiation. Amendola R, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1300–10

Search for genes that suppress cancer metastasis [editorial; comment] Fidler IJ, et al. **J Natl Cancer Inst** 1996 Dec 4;88(23):1700–3. Comment on: J Natl Cancer Inst 1996 Dec 4;88(23):1731–7.

KiSS–1, a novel human malignant melanoma metastasis–suppressor gene [see comments] Lee JH, et al. **J Natl Cancer Inst** 1996 Dec 4;88(23):1731–7. Comment in: J Natl Cancer Inst 1996 Dec 4;88(23):1700–3.

Tumor suppressor genes and medulloblastoma. Cogen PH, et al. **J Neurooncol** 1996 Jul;29(1):103–12 (40 ref.)

Molecular biology of pediatric gliomas. Raffel C. **J Neurooncol** 1996 May–Jun;28(2–3):121–8 (92 ref.)

Prognostic factors in malignant glioma: influence of the overexpression of oncogene and tumor–suppressor gene products on survival. Rainov NG, et al. **J Neurooncol** 1997 Oct;35(1):13–28

Loss of alkaline phosphatase activity in meningiomas: a rapid histochemical technique indicating progression–associated deletion of a putative tumor suppressor gene on the distal part of the short arm of chromosome 1. Niedermayer I, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):879–86

Alterations of P16 (MTS1) in node–positive non–small cell lung carcinomas. Marchetti A, et al. **J Pathol** 1997 Feb; 181(2):178–82

Von Hippel–Lindau tumour suppressor gene. Localization of expression by in situ hybridization. Nagashima Y, et al. **J Pathol** 1996 Nov;180(3):271–4

Cloning, sequence, and developmental expression analysis of C4–2, a potential brain tumor–suppressor gene. Sehgal A, et al. **J Surg Oncol** 1997 Aug;65(4):249–57

Characterization of C4–2 as a tumor–suppressor gene in human brain tumors. Sehgal A, et al. **J Surg Oncol** 1997 Feb;64(2):102–8

Intragenic Tsc2 somatic mutations as Knudson's second hit in spontaneous and chemically induced renal carcinomas in the Eker rat model [see comments] Kobayashi T, et al. **Jpn J Cancer Res** 1997 Mar;88(3):254–61. Comment in: Jpn J Cancer Res 1997 Mar;88(3):inside front cover.

PRLTS gene alterations in human prostate cancer. Komiya A, et al. **Jpn J Cancer Res** 1997 Apr;88(4):389–93

Increased radiosensitivity of p16 gene–deleted human glioma cells after transfection with wild–type p16 gene. Miyakoshi J, et al. **Jpn J Cancer Res** 1997 Jan;88(1):34–8

No evidence of mutation in the human PTC gene, responsible for nevoid basal cell carcinoma syndrome, in human primary squamous cell carcinomas of the esophagus and lung. Suzuki K, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):225–8

A comparative study of glioma cell lines for p16, p15, p53 and p21 gene alterations. Zhang S, et al. **Jpn J Cancer Res** 1996 Sep;87(9):900–7

The Japan Society of Human Genetics Award Lecture. Application of DNA markers to clinical genetics. Nakamura Y. **Jpn J Hum Genet** 1996 Mar;41(1):1–10 (61 ref.)

Regulation of vascular endothelial growth factor by hypoxia and its modulation by the von Hippel–Lindau tumor suppressor gene. Levy AP, et al. **Kidney Int** 1997 Feb; 51(2):575–8 (28 ref.)

Investigation of the RB–1 tumour suppressor gene in a United Kingdom series of non–Hodgkin's lymphomas. Grierson AJ, et al. **Leuk Lymphoma** 1996 Oct;23(3–4):353–63

Disease progression in patients with multiple myeloma is associated with a concurrent alteration in the expression of both oncogenes and tumour suppressor genes and can be monitored by the oncoprotein phenotype. Pope B, et al. **Leuk Lymphoma** 1997 May;25(5–6):545–54

Allele imbalance at tumour suppressor loci during the indolent phase of follicle centre cell lymphoma. Randerson J, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):113–7, follow. 186, color plate X

The commonly deleted region at 9p21–22 in lymphoblastic leukemias spans at least 400 kb and includes p16 but not p15 or the IFN gene cluster. Aguiar RC, et al. **Leukemia** 1997 Feb;11(2):233–8

Cloning of the mouse BTG3 gene and definition of a new gene family (the BTG family) involved in the negative control of the cell cycle. Guéhenneux F, et al. **Leukemia** 1997 Mar;11(3):370–5

Recent progress in molecular mechanisms of leukemogenesis: the cyclin–dependent kinase 4–inhibitor gene in human leukemias. Hirai H, et al. **Leukemia** 1997 Apr;11 Suppl 3:358–60

PCR analysis of polymorphisms at the D13S25 locus. Ibbotson RE, et al. **Leukemia** 1996 Nov;10(11):1712–4

Smad5, a tumor suppressor candidate at 5q31.1, is hemizygously lost and not mutated in the retained allele in human leukemia cell line HL60. Zavadil J, et al. **Leukemia** 1997 Aug;11(8):1187–92

Fath, the murine homolog of the Drosophila fat tumor suppressor gene, maps to chromosome 8. Grewal PK, et al. **Mamm Genome** 1997 May;8(5):383–4

Sequence variation and chromosomal mapping of the murine Cdkn2a tumor suppressor gene. Herzog CR, et al. **Mamm Genome** 1997 Jan;8(1):65–6

Expression of the tumour suppressor genes p15 and p16 in malignant melanoma. Robinson WA, et al. **Melanoma Res** 1996 Aug;6(4):285–9

Interaction of von Hippel–Lindau tumor suppressor gene product with elongin. Pause A, et al. **Methods Enzymol** 1996;274:436–41

p16 (CDKN2/cyclin–dependent kinase–4 inhibitor/multiple tumor suppressor–1) gene is not altered in uterine cervical carcinomas or cell lines. Hirama T, et al. **Mod Pathol** 1996 Jan;9(1):26–31

Mutational analysis of the p16 gene in human neuroblastomas. Castresana JS, et al. **Mol Carcinog** 1997 Mar;18(3):129–33

Localization of a putative liver tumor suppressor locus to a 950–kb region of human 11p11.2–p12 using rat liver tumor microcell hybrid cell lines. Coleman WB, et al. **Mol Carcinog** 1997 Aug;19(4):267–72

Expression of human Krev–1 gene in lungs of transgenic mice and subsequent reduction in multiplicity of ethyl carbamate–induced lung adenomas. Damak S, et al. **Mol Carcinog** 1996 Oct;17(2):84–91

Allelic imbalance in mammary carcinomas induced by either 7,12–dimethylbenz[a]anthracene or ionizing radiation in rats carrying genes conferring differential susceptibilities to mammary carcinogenesis. Haag JD, et al. **Mol Carcinog** 1996 Nov;17(3):134–43

Alterations of the p16INK4A gene in human ovarian cancers. Kanuma T, et al. **Mol Carcinog** 1997 Mar;18(3):134–41

Loss of heterozygosity at loci on chromosome 4, a common genetic event during the spontaneous immortalization of mouse embryonic fibroblasts. Obata M, et al. **Mol Carcinog** 1997 May;19(1):17–24

Expression of wild–type alpha–catenin protein in cells with a mutant alpha–catenin gene restores both growth regulation and tumor suppressor activities. Bullions LC, et al. **Mol Cell Biol** 1997 Aug;17(8):4501–8

Extension of the replicative life span of human diploid fibroblasts by inhibition of the p33ING1 candidate tumor suppressor. Garkavtsev I, et al. **Mol Cell Biol** 1997 Apr; 17(4):2014–9

The von Hippel–Lindau tumor suppressor gene product interacts with Sp1 to repress vascular endothelial growth factor promoter activity. Mukhopadhyay D, et al. **Mol Cell Biol** 1997 Sep;17(9):5629–39

Transforming growth factor beta stabilizes p15INK4B protein, increases p15INK4B–cdk4 complexes, and inhibits cyclin D1–cdk4 association in human mammary epithelial cells. Sandhu C, et al. **Mol Cell Biol** 1997 May; 17(5):2458–67

Ras activity late in G1 phase required for p27kip1 downregulation, passage through the restriction point, and entry into S phase in growth factor-stimulated NIH 3T3 fibroblasts. Takuwa N, et al. **Mol Cell Biol** 1997 Sep; 17(9):5348-58

Heteromeric and homomeric interactions correlate with signaling activity and functional cooperativity of Smad3 and Smad4/DPC4. Wu RY, et al. **Mol Cell Biol** 1997 May; 17(5):2521-8

High frequency deletion of the tumour suppressor gene P16INK4a (MTS1) in human thyroid cancer cell lines. Jones CJ, et al. **Mol Cell Endocrinol** 1996 Jan 15; 116(1):115-9

The molecular basis of von Hippel-Lindau disease. Iliopoulos O, et al. **Mol Med** 1997 May;3(5):289-93 (43 ref.)

How cancer gene testing can benefit patients. Murphy P, et al. **Mol Med Today** 1997 Apr;3(4):147-52

The p53 tumour suppressor gene: a model for molecular epidemiology of human cancer. Soussi T. **Mol Med Today** 1996 Jan;2(1):32-7 (43 ref.)

Mutagenic and epigenetic effects of DNA methylation [see comments] Gonzalgo ML, et al. **Mutat Res** 1997 Apr; 386(2):107-18 (78 ref.). Comment in: Mutat Res 1997 Apr;386(2):103-5.

Secretory phospholipase Pla2g2a confers resistance to intestinal tumorigenesis [see comments] Cormier RT, et al. **Nat Genet** 1997 Sep;17(1):88-91. Comment in: Nat Genet 1997 Sep;17(1):7-8.

Mom1 leads the pack [news; comment] Dragani TA, et al. **Nat Genet** 1997 Sep;17(1):7-8. Comment on: Nat Genet 1997 Sep;17(1):88-91.

Suppression of the novel growth inhibitor p33ING1 promotes neoplastic transformation. Garkavtsev I, et al. **Nat Genet** 1996 Dec;14(4):415-20

Tumour-suppressor genes: evolving definitions in the genomic age [news] Haber D, et al. **Nat Genet** 1997 Aug; 16(4):320-2

An imprinting element from the mouse H19 locus functions as a silencer in Drosophila. Lyko F, et al. **Nat Genet** 1997 Jun;16(2):171-3

Absence of rearrangements in the tumour susceptibility gene TSG101 in human breast cancer [letter] Steiner P, et al. **Nat Genet** 1997 Aug;16(4):332-3

Adenovirally transferred p16INK4/CDKN2 and p53 genes cooperate to induce apoptotic tumor cell death. Sandig V, et al. **Nat Med** 1997 Mar;3(3):313-9

Picture story. Trimers and tumours. Smith T. **Nat Struct Biol** 1997 Aug;4(8):629

Tumour-suppressor genes. Killer in search of a motive? [news; comment] Clurman B, et al. **Nature** 1997 Sep 11; 389(6647):122-3. Comment on: Nature 1997 Sep 11;389(6647):191-4.

Mutations increasing autoinhibition inactivate tumour suppressors Smad2 and Smad4 [see comments] Hata A, et al. **Nature** 1997 Jul 3;388(6637):82-7. Comment in: Nature 1997 Jul 3;388(6637):28-9.

p73 is a human p53-related protein that can induce apoptosis [see comments] Jost CA, et al. **Nature** 1997 Sep 11; 389(6647):191-4. Comment in: Nature 1997 Sep 11;389(6647):122-3.

A structural basis for mutational inactivation of the tumour suppressor Smad4 [see comments] Shi Y, et al. **Nature** 1997 Jul 3;388(6637):87-93. Comment in: Nature 1997 Jul 3;388(6637):28-9.

The tumour-suppressor gene patched encodes a candidate receptor for Sonic hedgehog [see comments] Stone DM, et al. **Nature** 1996 Nov 14;384(6605):129-34. Comment in: Nature 1996 Nov 14;384(6605):119-20.

Bax suppresses tumorigenesis and stimulates apoptosis in vivo. Yin C, et al. **Nature** 1997 Feb 13;385(6617):637-40

Expression of the tuberous sclerosis 2 gene product, tuberin, in adult and developing nervous system tissues. Geist RT, et al. **Neurobiol Dis** 1996 Apr;3(2):111-20

Regulation of synapse structure and function by the Drosophila tumor suppressor gene dlg. Budnik V, et al. **Neuron** 1996 Oct;17(4):627-40

Identification of a zinc-finger gene at 6q25: a chromosomal region implicated in development of many solid tumors. Abdollahi A, et al. **Oncogene** 1997 Apr 24;14(16):1973-9

Cell lines containing and expressing the human herpesvirus 6A ts gene are protected from both H-ras and BPV-1 transformation. Araujo JC, et al. **Oncogene** 1997 Feb 27; 14(8):937-43

DPC4 (SMAD4) mediates transforming growth factor-beta1 (TGF-beta1) induced growth inhibition and transcriptional response in breast tumour cells. de Winter JP, et al. **Oncogene** 1997 Apr 24;14(16):1891-9

DAP-kinase loss of expression in various carcinoma and B-cell lymphoma cell lines: possible implications for role as tumor suppressor gene. Kissil JL, et al. **Oncogene** 1997 Jul 24;15(4):403-7

Detailed deletion mapping with a refined physical map of 7q31 localizes a putative tumor suppressor gene for breast cancer in the region of MET. Lin JC, et al. **Oncogene** 1996 Nov 7;13(9):2001-8

The FHIT gene is alternatively spliced in normal kidney and renal cell carcinoma. Luan X, et al. **Oncogene** 1997 Jul 3;15(1):79-86

The expression of the imprinted genes H19 and IGF-2 in choriocarcinoma cell lines. Is H19 a tumor suppressor gene? Lustig-Yariv O, et al. **Oncogene** 1997 Jul 10;15(2):169-77

Comparative mutational analysis of DPC4 (Smad4) in prostatic and colorectal carcinomas. MacGrogan D, et al. **Oncogene** 1997 Aug 28;15(9):1111-4

New deletion in low-grade oligodendroglioma at the glioblastoma suppressor locus on chromosome 10q25-26. Maier D, et al. **Oncogene** 1997 Aug 18;15(8):997-1000

Oncogenes belonging to the CSF-1 transduction pathway direct p53 tumor suppressor effects to monocytic differentiation in 32D cells. Martinelli R, et al. **Oncogene** 1997 Jul 31;15(5):607-11

The p19INK4D cyclin dependent kinase inhibitor gene is altered in osteosarcoma. Miller CW, et al. **Oncogene** 1997 Jul 10;15(2):231-5

Tumour suppressive properties of the adenovirus 5 E1A oncogene. Mymryk JS. **Oncogene** 1996 Oct 17;13(8):1581-9 (153 ref.)

Alterations of the p16 gene in head and neck cancer: frequency and association with p53, PRAD-1 and HPV. Olshan AF, et al. **Oncogene** 1997 Feb 20;14(7):811-8

Differentiation induced by RB expression and apoptosis induced by p53 expression in an osteosarcoma cell line. Ookawa K, et al. **Oncogene** 1997 Mar 27;14(12):1389-96

Localization of a growth suppressor activity in MCF7 breast cancer cells to chromosome 17q24-q25. Plummer SJ, et al. **Oncogene** 1997 May 15;14(19):2339-45

The familial Wilms' tumour susceptibility gene, FWT1, may not be a tumour suppressor gene. Rahman N, et al. **Oncogene** 1997 Jun 26;14(25):3099-102

A link between metastasis and resistance to apoptosis of variant small cell lung carcinoma. Shtivelman E. **Oncogene** 1997 May 8;14(18):2167-73

Human p57(KIP2) defines a new imprinted domain on chromosome 11p but is not a tumour suppressor gene in Wilms tumour. Taniguchi T, et al. **Oncogene** 1997 Mar 13; 14(10):1201-6

Unique expression patterns of H19 in human testicular cancers of different etiology. Verkerk AJ, et al. **Oncogene** 1997 Jan 9;14(1):95-107

Variations in the expression of the adenomatous polyposis coli (APC) tumor suppressor gene in human cancer cell lines of different tissue origin. Dihlmann S, et al. **Oncol Res** 1997;9(3):119-27

Infrequent somatic mutations of the p16 and p15 genes in human bladder cancer: p16 mutations occur only in low-grade and superficial bladder cancers. Miyamoto H, et al. **Oncol Res** 1995;7(7-8):327-30

Tumour suppressor genes, immunology and local manifestations of neurofibromatosis phenotypes. Gerosa PL, et al. **Panminerva Med** 1996 Sep;38(3):157-63

Immunohistochemical analysis of the nm23 gene products in testicular seminoma. Hori K, et al. **Pathol Int** 1997 May; 47(5):288-92

p16: at last a tumor suppressor gene involved in childhood acute lymphoblastic leukemias! [editorial] Leblanc T. **Pediatr Hematol Oncol** 1997 Mar-Apr;14(2):iii-viii (15 ref.)

Incidence and clinical significance of CDKN2/MTS1/P16ink4A and MTS2/P15ink4B gene deletions in childhood acute lymphoblastic leukemia. Zhou M, et al. **Pediatr Hematol Oncol** 1997 Mar-Apr; 14(2):141-50

Oncoproteins and tumor suppressor proteins in congenital sacrococcygeal teratomas. Krušlin B, et al. **Pediatr Pathol Lab Med** 1997 Jan-Feb;17(1):43-52

Oncogenes and tumor suppressor genes in cutaneous malignant melanoma. Albino AP, et al. **Photochem Photobiol** 1996 Apr;63(4):412-8 (79 ref.)

Oncogenes and tumor suppressor genes in photocarcinogenesis. Ananthaswamy HN, et al. **Photochem Photobiol** 1996 Apr;63(4):428-32 (36 ref.)

Hepatocarcinogenesis: hepatitis viruses and altered tumor suppressor gene function. Tabor E. **Princess Takamatsu Symp** 1995;25:151-61 (59 ref.)

Tumor suppressor genes and signal transduction in Drosophila. Woods DF, et al. **Princess Takamatsu Symp** 1994;24:1-13 (69 ref.)

Post-transcriptional regulation of vascular endothelial growth factor mRNA by the product of the VHL tumor suppressor gene. Gnarra JR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10589-94

Negative regulation of hypoxia-inducible genes by the von Hippel-Lindau protein. Iliopoulos O, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10595-9

The melanoma differentiation associated gene mda-7 suppresses cancer cell growth. Jiang H, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9160-5

Suppression of tumorigenicity by the wild-type tuberous sclerosis 2 (Tsc2) gene and its C-terminal region. Jin F, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9154-9

Transgenic rescue from embryonic lethality and renal carcinogenesis in the Eker rat model by introduction of a wild-type Tsc2 gene. Kobayashi T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3990-3

P-TEN, the tumor suppressor from human chromosome 10q23, is a dual-specificity phosphatase. Myers MP, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9052-7

A CDKN2-like polymorphism in Xiphophorus LG V is associated with UV-B-induced melanoma formation in platyfish-swordtail hybrids. Nairn RS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13042-7

Activation of the human homologue of the Drosophila sina gene in apoptosis and tumor suppression. Nemani M, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9039-42

The adenovirus E4orf6 protein can promote E1A/E1B-induced focus formation by interfering with p53 tumor suppressor function. Nevels M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1206-11

Epigenetic changes at the insulin-like growth factor II/H19 locus in developing kidney is an early event in Wilms tumorigenesis. Okamoto K, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5367-71

The von Hippel-Lindau tumor-suppressor gene product forms a stable complex with human CUL-2, a member of the Cdc53 family of proteins. Pause A, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2156-61

Cancer-associated mutations at the INK4a locus cancel cell cycle arrest by p16INK4a but not by the alternative reading frame protein p19ARF. Quelle DE, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):669-73

Correlation of germ-line mutations and two-hit inactivation of the WT1 gene with Wilms tumors of stromal-predominant histology. Schumacher V, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3972-7

Combinations of closely situated cis-acting elements determine tissue-specific patterns and anterior extent of early Hoxc8 expression. Shashikant CS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12364-9

Intestinal tumorigenesis is suppressed in mice lacking the metalloproteinase matrilysin. Wilson CL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1402-7

Positional cloning of the gene for multiple endocrine neoplasia-type 1. Chandrasekharappa SC, et al. **Science** 1997 Apr 18;276(5311):404-7

First p53 relative may be a new tumor suppressor [news] Dickman S. **Science** 1997 Sep 12;277(5332):1605-6

PTEN, a putative protein tyrosine phosphatase gene mutated in human brain, breast, and prostate cancer [see comments] Li J, et al. **Science** 1997 Mar 28;275(5308):1943-7. Comment in: Science 1997 Mar 28;275(5308):1876-8.

New tumor suppressor found--twice [news; comment] Pennisi E. **Science** 1997 Mar 28;275(5308):1876-8. Comment on: Science 1997 Mar 28;275(5308):1943-7.

Somatic frameshift mutations in the BAX gene in colon cancers of the microsatellite mutator phenotype. Rampino N, et al. **Science** 1997 Feb 14;275(5302):967-9

Identification of the tuberous sclerosis gene TSC1 on chromosome 9q34. van Slegtenhorst M, et al. **Science** 1997 Aug 8;277(5327):805-8

Apoptosis in steroidogenic cells: structure-function analysis. Amsterdam A, et al. **Steroids** 1997 Jan;62(1):207-11 (33 ref.)

A frequent mutation/polymorphism in tumor suppressor gene INK4B (MTS-2) in papillary and medullary thyroid cancer. Goretzki PE, et al. **Surgery** 1996 Dec;120(6):1081-8

Infrequent alterations of the p16 (MTS-1) gene in human gastric cancer. Takaoka AS, et al. **Tumour Biol** 1997; 18(2):95-103

Inactivation of tumor suppressor genes and deregulation of the c-myc gene in urothelial cancer cell lines. Grimm MO, et al. **Urol Res** 1995;23(5):293-300

Molecular and immunopathology studies of oncogenes and tumor-suppressor genes in bladder cancer. Cordon-Cardo C, et al. **World J Urol** 1997;15(2):112-9 (72 ref.)

[Clinical significance of ovarian cancer related oncogenes and tumor suppressor genes] Neng J, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Dec;30(12):756-8 (31 ref.) **(Chi)**

[Mismatch repair gene defects in large intestinal cancers] Huang J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep; 76(9):717-8 (12 ref.) **(Chi)**

[Expression of metastasis suppressor gene nm23 in human hepatocellular carcinoma] Chen X, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):76-8 (Eng. Abstr.) **(Chi)**

[Tumor suppressor genes] Sedláček Z, et al. **Cas Lek Cesk** 1997 Jan 8;136(1):11-6 (Eng. Abstr.) **(Cze)**

[Localization of a tumor suppressor gene distal to D22S270 in colorectal cancers] Duriez C, et al. **Gastroenterol Clin Biol** 1997;21(5):358-64 (Eng. Abstr.) **(Fre)**

[Reversal of drug resistance in human cancer cells by anti-oncogenes] Funato T. **Gan To Kagaku Ryoho** 1997 Feb;24(4):395-400 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Alteration of p15 and p16 gene in gastric cancer] Fushida S, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:279-84 (Eng. Abstr.) **(Jpn)**

[VHL gene and TSC 2 gene] Hino O. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1386-91 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Tumor suppressive function of gelsolin] Kuzumaki N, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1436-41 (35 ref.) (Eng. Abstr.) **(Jpn)**

[DAN gene] Sakiyama S, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1465-70 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Positional-cloning efforts to identify the tumor suppressor gene at 3p] Hibi K, et al. **Nippon Rinsho** 1996 Feb; 54(2):478-81 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Search for the tumor-suppressor gene(s) on chromosome 5q, which may play an important role for the progression of lung cancer] Hosoe S. **Nippon Rinsho** 1996 Feb; 54(2):482-6 (19 ref.) (Eng. Abstr.) **(Jpn)**

[p16/CDKN2/MTS1 gene abnormality in lung cancer] Ohno A. **Nippon Rinsho** 1996 Feb;54(2):503-6 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Molecullar structure and function of the p16/INK4a/CDKN2/MTS1 and the INK4 family, and

their association with carcinogenesis] Okamoto A, et al. **Nippon Rinsho** 1996 Apr;54(4):1037–42 (23 ref.) (Eng. Abstr.) **(Jpn)**

[Allelic chromosomal deletion using microsatellite polymorphism--the clue to the positional cloning of the tumor suppressor genes responsible for gastric carcinoma] Sato J, et al. **Nippon Rinsho** 1996 Apr;54(4):992–5 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Cytogenetic abnormalities, genetic alterations, and applications for genetic diagnosis in breast cancer] Tsukamoto K, et al. **Nippon Rinsho** 1996 Dec; 54(12):3389–97 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Molecular mechanisms of astrocytoma tumorigenesis–link between genotypic abnormalities and phenotypic abnormalities] Tada M, et al. **No To Shinkei** 1997 Mar; 49(3):228–38 (130 ref.) **(Jpn)**

[The correlation between alterations of cell cycle–regulating, tumor–suppressor genes and the clinical prognosis in adult ALL patients] Hangaishi A, et al. **Rinsho Ketsueki** 1997 May;38(5):401–5 **(Jpn)**

[Detection of genetic alterations in human cancer] Shimizu K. **Seikagaku** 1997 May;69(5):311–23 (37 ref.) **(Jpn)**

[Molecular mechanism of multifunctional protein, NDP kinase/nm 23] Kimura N, et al. **Tanpakushitsu Kakusan Koso** 1997 Apr;42(5):745–60 (102 ref.) **(Jpn)**

[Genetic and environmental factors in colorectal cancer. Mutations in the familial adenomatous polyposis gene] Steffensen IL, et al. **Tidsskr Nor Laegeforen** 1997 May 30; 117(14):2046–51 (25 ref.) (Eng. Abstr.) **(Nor)**

[Cellular oncogenes and antioncogenes in thyroid tumors] Abrosimov Alu. **Arkh Patol** 1997 Jan–Feb;59(1):64–9 (41 ref.) (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Renal cell carcinomas in trichloroethene (TRI) exposed persons are associated with somatic mutations in the von Hippel–Lindau (VHL) tumour suppressor gene. Brüning T, et al. **Arch Toxicol** 1997;71(5):332–5

GENETICS

Identifying genetic changes associated with tumor progression in squamous cell carcinoma. Carey TE, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:229–32

Molecular genetic analysis of the von Hippel–Lindau disease tumor suppressor gene in familial and sporadic cerebellar hemangioblastomas. Tse JY, et al. **Am J Clin Pathol** 1997 Apr;107(4):459–66

Common BRCA1 variants and transcriptional activation [letter] Monteiro AN, et al. **Am J Hum Genet** 1997 Sep; 61(3):761–2

Mutation screening of the EXT1 and EXT2 genes in patients with hereditary multiple exostoses. Philippe C, et al. **Am J Hum Genet** 1997 Sep;61(3):520–8

Somatic inactivation of the VHL gene in Von Hippel–Lindau disease tumors [see comments] Prowse AH, et al. **Am J Hum Genet** 1997 Apr;60(4):765–71. Comment in: Am J Hum Genet 1997 Apr;60(4):751–4.

Frequent p16INK4 (MTS1) gene inactivation in testicular germ cell tumors. Chaubert P, et al. **Am J Pathol** 1997 Sep;151(3):859–65

Introduction of the c-kit gene leads to growth suppression of a breast cancer cell line, MCF-7. Nishida K, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3397–402

Deletion analysis of the p16/CDKN2 gene in head and neck squamous cell carcinoma using quantitative polymerase chain reaction method. Rawnsley JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):863–7

Cancer gets Mad: DPC4 and other TGFbeta pathway genes in human cancer. Moskaluk CA, et al. **Biochim Biophys Acta** 1996 Dec 9;1288(3):M31–3 (21 ref.)

Allelotype analysis in mouse hepatocellular carcinomas; frequent homozygous deletion of mouse homolog of p16/CDKN2 gene on chromosome 4 in culture. Miyasaka K, et al. **Biol Pharm Bull** 1996 May;19(5):683–91

Homozygous deletion of mouse homolog of p16/CDKN2 gene on chromosome 4 in mouse liver epithelial cells in culture. Miyasaka K, et al. **Biol Pharm Bull** 1996 Mar; 19(3):345–9

The gene for the naevoid basal cell carcinoma syndrome acts as a tumour–suppressor gene in medulloblastoma. Cowan R, et al. **Br J Cancer** 1997;76(2):141–5

Ovarian cancer has frequent loss of heterozygosity at chromosome 12p12.3–13.1 (region of TEL and Kip1 loci) and chromosome 12q23–ter: evidence for two new tumour–suppressor genes. Hatta Y, et al. **Br J Cancer** 1997; 75(9):1256–62

Sporadic CDKN2 (MTS1/p16ink4) gene alterations in human ovarian tumours. Schuyer M, et al. **Br J Cancer** 1996 Oct;74(7):1069–73

The CDKN2 gene alterations in various types of adult T–cell leukaemia. Uchida T, et al. **Br J Haematol** 1996 Sep; 94(4):665–70

Relationship between loss of heterozygosity of tumor suppressor genes and histologic differentiation in hepatocellular carcinoma. Piao Z, et al. **Cancer** 1997 Sep 1;80(5):865–72

Two distinct commonly deleted regions on chromosome 13q suggest involvement of BRCA2 and retinoblastoma genes in sporadic breast carcinomas. Tsukamoto K, et al. **Cancer** 1996 Nov 1;78(9):1929–34

Association of IGF2 and H19 imprinting with choriocarcinoma development. Arima T, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):39–47

The von Hippel–Lindau tumor suppressor gene. A rare and intriguing disease opening new insight into basic mechanisms of carcinogenesis. Decker HJ, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):74–83 (127 ref.)

Mutation analysis of 8p genes POLB and PPP2CB in bladder cancer. Eydmann ME, et al. **Cancer Genet Cytogenet** 1997 Feb;93(2):167–71

Colorectal carcinogenesis: from chromosomal evolution pathways to molecular pathogenesis. Remvikos Y, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):63–73

Induction of invasive squamous cell carcinomas in the forestomach of (C3H x MSM)F1, MSM, and C3H mice by N–methyl–N–nitrosourea and mutational analysis of the H–ras and p53 genes. Masui T, et al. **Cancer Lett** 1997 Jan 1;111(1–2):97–104

Deletion map of chromosome 16q in ductal carcinoma in situ of the breast: refining a putative tumor suppressor gene region. Chen T, et al. **Cancer Res** 1996 Dec 15; 56(24):5605–9

Microsatellite instability–associated mutations associate preferentially with the intestinal type of primary gastric carcinomas in a high–risk population. Chung YJ, et al. **Cancer Res** 1996 Oct 15;56(20):4662–5

FHIT mutations in human primary gastric cancer. Gemma A, et al. **Cancer Res** 1997 Apr 15;57(8):1435–7

Disruption of the MMAC1/PTEN gene by deletion or mutation is a frequent event in malignant melanoma. Guldberg P, et al. **Cancer Res** 1997 Sep 1;57(17):3660–3

Functional evidence for a colorectal cancer tumor suppressor gene at chromosome 8p22–23 by monochromosome transfer. Gustafson CE, et al. **Cancer Res** 1996 Nov 15; 56(22):5238–45

Localization of SMAD5 and its evaluation as a candidate myeloid tumor suppressor. Hejlik DP, et al. **Cancer Res** 1997 Sep 1;57(17):3779–83

Mutations in the BRCA2 gene in hepatocellular carcinomas. Katagiri T, et al. **Cancer Res** 1996 Oct 15;56(20):4575–7

Expression and mutational analysis of the DCC, DPC4, and MADR2/JV18–1 genes in neuroblastoma. Kong XT, et al. **Cancer Res** 1997 Sep 1;57(17):3772–8

Localization of a novel tumor suppressor locus on human chromosome 3q important in osteosarcoma tumorigenesis. Kruzelock RP, et al. **Cancer Res** 1997 Jan 1;57(1):106–9

A p18 mutant defective in CDK6 binding in human breast cancer cells. Lapointe J, et al. **Cancer Res** 1996 Oct 15; 56(20):4586–9

Suppression of metastasis in human breast carcinoma MDA–MB–435 cells after transfection with the metastasis suppressor gene, KiSS–1. Lee JH, et al. **Cancer Res** 1997 Jun 15;57(12):2384–7

Mutation analysis of the putative tumor suppressor gene PTEN/MMAC1 in primary breast carcinomas. Rhei E, et al. **Cancer Res** 1997 Sep 1;57(17):3657–9

Does oral contraceptive use increase the risk of breast cancer in women with BRCA1/BRCA2 mutations more than in other women? Ursin G, et al. **Cancer Res** 1997 Sep 1; 57(17):3678–81

Identification of a novel region of homozygous deletion on chromosome 9p in squamous cell carcinoma of the lung: the location of a putative tumor suppressor gene. Wiest JS, et al. **Cancer Res** 1997 Jan 1;57(1):1–6

Deletion and differential expression of p16INK4a in mouse lung tumors. Belinsky SA, et al. **Carcinogenesis** 1997 Jan; 18(1):115–20

The TSG101 tumor susceptibility gene is located in chromosome 11 band p15 and is mutated in human breast cancer. Li L, et al. **Cell** 1997 Jan 10;88(1):143–54

Lonely no more: p53 finds its kin in a tumor suppressor haven. Oren M. **Cell** 1997 Sep 5;90(5):829–32 (13 ref.)

Transactivation through Ets and Ap1 transcription sites determines the expression of the tumor–suppressing gene maspin. Zhang M, et al. **Cell Growth Differ** 1997 Feb; 8(2):179–86

Mapping of a new MAP kinase activated protein kinase gene (3PK) to human chromosome band 3p21.2 and ordering of 3PK and two cosmid markers in the 3p22–p21 tumour–suppressor region by two–colour fluorescence in situ hybridization. Szeles A, et al. **Chromosome Res** 1996 Jun;4(4):310–3

Oncogenes and antioncogenes in the development of HPV associated tumors. Crawford L, et al. **Clin Dermatol** 1997 Mar–Apr;15(2):207–15 (96 ref.)

The interaction of oncogene and tumour suppressor gene defects with cytotoxic drugs: its role in the improvement of selective toxicity and the development of new drugs in clinical oncology. Petty RD. **Clin Oncol (R Coll Radiol)** 1996;8(3):186–9 (27 ref.)

Identification of exons in a region of human chromosome 6q known to contain tumour suppressor genes. Barua U, et al. **DNA Seq** 1996;7(1):13–9

Physical analysis of part of band 6q21 harboring a putative tumor suppressor gene and a putative senescence gene. Morelli C, et al. **DNA Seq** 1996;7(1):43–5

Genetic defects in cancer cells and cancer prone families. Yokota J, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:33–6

Expression of the candidate tumor suppressor gene nm23 in the bronchial system of patients with squamous cell lung cancer. Huwer H, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):206–9

Expression of hsc 70, but not hsp 70, in human third molar dental pulp. Sens DA, et al. **Eur J Oral Sci** 1997 Jun; 105(3):271–7

What's new with RII? [editorial; comment] Grady W, et al. **Gastroenterology** 1997 Jan;112(1):297–302. Comment on: Gastroenterology 1997 Jan;112(1):33–9. Comment on: Gastroenterology 1997 Jan;112(1):40–5.

Deletion analysis of the p16 tumor suppressor gene in gastrointestinal mucosa–associated lymphoid tissue lymphomas. Neumeister P, et al. **Gastroenterology** 1997 Jun; 112(6):1871–5

Frequent allele loss on 9p21–22 defines a smallest common region in the vicinity of the CDKN2 gene in sporadic breast cancer. An HX, et al. **Genes Chromosomes Cancer** 1996 Sep;17(1):14–20

FISH analysis of translocations involving the short arm of chromosome 9 in lymphoid malignancies. Leblanc T, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):273–7

Mapping of metastasis suppressor gene(s) for rat prostate cancer on the short arm of human chromosome 8 by irradiated microcell–mediated chromosome transfer. Nihei N, et al. **Genes Chromosomes Cancer** 1996 Dec;17(4):260–8

Variable FHIT transcripts in non–neoplastic tissues. Panagopoulos I, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):215–9

A t(6;12)(q23;p13) results in the fusion of ETV6 to a novel gene, STL, in a B–cell ALL cell line. Suto Y, et al. **Genes Chromosomes Cancer** 1997 Apr;18(4):254–68

Codeletion of the JUN proto–oncogene and the CDKN2A tumor–suppressor gene in HRAS–transformed rat embryo fibroblast cell lines. Zhou JN, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):82–9

Novel susceptibility locus for mouse hepatomas: evidence for a conserved tumor suppressor gene. Zenklusen JC, et al. **Genome Res** 1996 Nov;6(11):1070–6

Generation of an integrated transcription map of the BRCA2 region on chromosome 13q12–q13. Couch FJ, et al. **Genomics** 1996 Aug 15;36(1):86–99

Murine Brca2: sequence, map position, and expression pattern. Sharan SK, et al. **Genomics** 1997 Mar 1; 40(2):234–41

Genomic organization of human MXI1, a putative tumor suppressor gene. Wechsler DS, et al. **Genomics** 1996 Mar 15;32(3):466–70

DPC4 gene mutation in colitis associated neoplasia. Hoque AT, et al. **Gut** 1997 Jan;40(1):120–2

p16INK4 and p15INK4B alterations in primary gynecologic malignancy. Wong YF, et al. **Gynecol Oncol** 1997 May; 65(2):319–24

Establishment and characterization of human ovarian carcinoma cell lines. Yuan Y, et al. **Gynecol Oncol** 1997 Sep;66(3):378–87

Molecular pathogenesis of colorectal cancer. Hoops TC, et al. **Hematol Oncol Clin North Am** 1997 Aug;11(4):609–33 (124 ref.)

Frequency of mutation and deletion of the tumor suppressor gene CDKN2A (MTS1/p16) in hepatocellular carcinoma from an Australian population. Biden K, et al. **Hepatology** 1997 Mar;25(3):593–7

Loss of H19 imprinting and up–regulation of H19 and SNRPN in a case with malignant mixed Müllerian tumor of the uterus. Hashimoto K, et al. **Hum Pathol** 1997 Jul; 28(7):862–5

von Hippel–Lindau gene deletion detected in the stromal cell component of a cerebellar hemangioblastoma associated with von Hippel–Lindau disease. Vortmeyer AO, et al. **Hum Pathol** 1997 May;28(5):540–3

Functional analysis of Drosophila developmental genes instrumental in tumor suppression. Gateff E, et al. **In Vivo** 1996 Mar–Apr;10(2):211–5 (29 ref.)

Deletion analysis at the DEL–27, APC and MTS1 loci in bladder cancer: LOH at the DEL–27 locus on 5p13–12 is a prognostic marker of tumor progression. Böhm M, et al. **Int J Cancer** 1997 Jun 20;74(3):291–5

BRCA2 germline mutations in Japanese breast cancer families. Inoue R, et al. **Int J Cancer** 1997 Apr 22; 74(2):199–204

Genomic deletions in the BRCA1, BRCA2 and TP53 regions associate with low expression of the estrogen receptor in sporadic breast carcinoma. Schmutzler RK, et al. **Int J Cancer** 1997 Jun 20;74(3):322–5

Rare mutations and no hypermethylation at the CDKN2A locus in epithelial ovarian tumours. Shih YC, et al. **Int J Cancer** 1997 Mar 4;70(5):508–11

Two independent domains of hDlg are sufficient for subcellular targeting: the PDZ1–2 conformational unit and an alternatively spliced domain. Lue RA, et al. **J Cell Biol** 1996 Nov;135(4):1125–37

Inactivation of the tumor suppressor gene on 11q13 in brothers with familial acrogigantism without multiple endocrine neoplasia type 1. Yamada S, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):239–42

A novel pancreatic endocrine tumor suppressor gene locus on chromosome 3p with clinical prognostic implications. Chung DC, et al. **J Clin Invest** 1997 Jul 15;100(2):404–10

Mutation analysis of the p53, APC, and p16 genes in the Barrett's oesophagus, dysplasia, and adenocarcinoma. González MV, et al. **J Clin Pathol** 1997 Mar;50(3):212–7

Genotype–phenotype correlation in von Hippel–Lindau disease: identification of a mutation associated with VHL type 2A. Chen F, et al. **J Med Genet** 1996 Aug;33(8):716–7

Mutations in the RET proto–oncogene and the von

Hippel-Lindau disease tumour suppressor gene in sporadic and syndromic phaeochromocytomas. Eng C, et al. **J Med Genet** 1995 Dec;32(12):934–7

Developmental genes and cancer: role of patched in basal cell carcinoma of the skin. Gailani MR, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1103–9 (98 ref.)

Alfred Knudson: two hits times 25 years [news] Kuska B. **J Natl Cancer Inst** 1997 Apr 2;89(7):470–3

Familial tumor syndrome associated with a germline nonfunctional p16INK4a allele. Yarbrough WG, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1489–91

Malignant astrocytomas with homozygous CDKN2/p16 gene deletions have higher Ki-67 proliferation indices. Ono Y, et al. **J Neuropathol Exp Neurol** 1996 Oct;55(10):1026–31

A novel splice site associated polymorphism in the tuberous sclerosis 2 (TSC2) gene may predispose to the development of sporadic gangliogliomas. Platten M, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):806–10

Determination of p53 mutations, EGFR overexpression, and loss of p16 expression in pediatric glioblastomas. Sure U, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):782–9

MTS1 gene mutations in archival oral squamous cell carcinomas. Dawson CD, et al. **J Oral Pathol Med** 1996 Nov;25(10):541–6

Alterations of p16/CDKN2, p53 and ras genes in oral squamous cell carcinomas and premalignant lesions. Matsuda H, et al. **J Oral Pathol Med** 1996 May;25(5):232–8

Alterations of tumor suppressor genes and the H-ras oncogene in oral squamous cell carcinoma. Sakata K. **J Oral Pathol Med** 1996 Jul;25(6):302–7

Cytotoxic effects of recombinant adenovirus p53 and cell cycle regulator genes (p21 WAF1/CIP1 and p16CDKN4) in human prostate cancers. Gotoh A, et al. **J Urol** 1997 Aug;158(2):636–41

p16 (CDKN2/MTS1) gene deletions are rare in prostatic carcinomas in the United States and Japan. Mangold KA, et al. **J Urol** 1997 Mar;157(3):1117–20

Somatic mutation of the tuberous sclerosis (Tsc2) tumor suppressor gene in chemically induced rat renal carcinoma cell. Urakami S, et al. **J Urol** 1997 Jul;158(1):275–8

PRLTS gene alterations in human prostate cancer. Komiya A, et al. **Jpn J Cancer Res** 1997 Apr;88(4):389–93

Intragenic homozygous deletions of MTS1 gene in gastric cancer in Taiwan. Wu MS, et al. **Jpn J Cancer Res** 1996 Oct;87(10):1052–5

Molecular genetic studies in medulloblastomas: evidence for tumor suppressor genes at the chromosomal regions 1q31–32 and 17p13. Pietsch T, et al. **Klin Padiatr** 1997 Jul–Aug;209(4):150–5

Pathology of familial breast cancer: differences between breast cancers in carriers of BRCA1 or BRCA2 mutations and sporadic cases. Breast Cancer Linkage Consortium [see comments] **Lancet** 1997 May 24;349(9064):1505–10. Comment in: Lancet 1997 May 24;349(9064):1488–9.

New BRCA2 mutation in an Ashkenazi Jewish family with breast and ovarian cancer [letter] Robson ME, et al. **Lancet** 1997 Jul 12;350(9071):117–8

Assignment of three loci: tumor suppressor protein-53 (TP53), retinoic acid receptor A (RARA), collagen 1A1 (COL1A1) to Syrian hamster chromosome 9. Evidence that this chromosome is homologous with human chromosome 17, mouse chromosome 11, and rat chromosome 10. Islam MQ, et al. **Mamm Genome** 1995 Dec;6(12):882–4

Expression and differential splicing of the mouse TSC2 homolog. Olsson PG, et al. **Mamm Genome** 1996 Mar; 7(3):212–5

Functional expression of rat synapse-associated proteins SAP97 and SAP102 in Drosophila dlg-1 mutants: effects on tumor suppression and synaptic bouton structure. Thomas U, et al. **Mech Dev** 1997 Mar;62(2):161–74

Tissue and cell-type specific expression of the tuberous sclerosis gene, TSC2, in human tissues. Menchine M, et al. **Mod Pathol** 1996 Nov;9(11):1071–80

Loss of heterozygosity on chromosome 9q21 (p16 gene) uncommon in soft-tissue sarcomas. Schneider-Stock R, et al. **Mol Carcinog** 1997 Feb;18(2):63–5

Frequent aberrant methylation of p16INK4a in primary rat lung tumors. Swafford DS, et al. **Mol Cell Biol** 1997 Mar; 17(3):1366–74

Absence of the L37P polymorphism in exon 1 of the CDKN2A gene. Fung JJ, et al. **Mol Cell Probes** 1997 Jun; 11(3):231–2

An EcoRV polymorphism in exon 40 of the tuberous sclerosis 2 (TSC2) gene. van Bakel I, et al. **Mol Cell Probes** 1997 Feb;11(1):75–6

The CDKN2A (p16) gene and human cancer. Foulkes WD, et al. **Mol Med** 1997 Jan;3(1):5–20 (93 ref.)

mMaspin: the mouse homolog of a human tumor suppressor gene inhibits mammary tumor invasion and motility. Zhang M, et al. **Mol Med** 1997 Jan;3(1):49–59

Mutations of the BRCA1 and BRCA2 genes and the possibilities for predictive testing. Gayther SA, et al. **Mol Med Today** 1997 Apr;3(4):168–74 (36 ref.)

H19 in normal development and neoplasia. Looijenga LH, et al. **Mol Reprod Dev** 1997 Mar;46(3):419–39 (244 ref.)

Studies of oncogene activation and tumor suppressor gene inactivation in normal and neoplastic rodent tissue. Buzard GS. **Mutat Res** 1996 Sep;365(1–3):43–58 (111 ref.)

An imprinted gene p57KIP2 is mutated in Beckwith-Wiedemann syndrome [see comments] Hatada I, et al. **Nat Genet** 1996 Oct;14(2):171–3. Comment in: Nat Genet 1996 Oct;14(2):119–21.

Germline mutations of the PTEN gene in Cowden disease, an inherited breast and thyroid cancer syndrome. Liaw D, et al. **Nat Genet** 1997 May;16(1):64–7

Identification of a candidate tumour suppressor gene, MMAC1, at chromosome 10q23.3 that is mutated in multiple advanced cancers. Steck PA, et al. **Nat Genet** 1997 Apr;15(4):356–62

Allelic loss determination in chronic lymphocytic leukemia by immunomagnetic bead sorting and microsatellite marker analysis. Gartenhaus RB. **Oncogene** 1997 Jan 23;14(3):375–8

Infrequent DPC4 gene mutation in esophageal cancer, gastric cancer and ulcerative colitis-associated neoplasms. Lei J, et al. **Oncogene** 1996 Dec 5;13(11):2459–62

Refined deletion mapping of the chromosome 19q glioma tumor suppressor gene to the D19S412–STD interval. Rosenberg JE, et al. **Oncogene** 1996 Dec 5;13(11):2483–5

An 80 Kb P1 clone from chromosome 3p21.3 suppresses tumor growth in vivo. Todd MC, et al. **Oncogene** 1996 Dec 5;13(11):2387–96

Loss of heterozygosity on murine chromosome 6 in two-stage carcinogenesis: evidence for a conserved tumor suppressor gene. Zenklusen JC, et al. **Oncogene** 1997 Jan 9;14(1):109–14

Lack of loss of heterozygosity at the c-erbA beta locus in gastrointestinal tumors [published erratum appears in Oncology 1997 Sep–Oct;54(5):370] Huber–Gieseke T, et al. **Oncology** 1997 May–Jun;54(3):214–9

The role of ras GTPase activating protein in human tumorigenesis. Friedman E. **Pathobiology** 1995;63(6):348–50 (21 ref.)

Neurofibromatosis and associated tumour suppressor genes. Zwarthoff EC. **Pathol Res Pract** 1996 Jul;192(7):647–57 (109 ref.)

Mutations of the p16 gene product are rare in prostate cancer. Gaddipati JP, et al. **Prostate** 1997 Feb 15;30(3):188–94

Location of KAI1 on the short arm of human chromosome 11 and frequency of allelic loss in advanced human prostate cancer. Kawana Y, et al. **Prostate** 1997 Aug 1;32(3):205–13

Alterations of tumor suppressor genes in bladder cancer. Cordon-Cardo C, et al. **Semin Diagn Pathol** 1997 May; 14(2):123–32 (61 ref.)

Genetic studies and molecular markers of bladder cancer. Cordon-Cardo C, et al. **Semin Surg Oncol** 1997 Sep–Oct; 13(5):319–27 (73 ref.)

Multiple changes in oncogenes and tumor suppressor genes in human retinoblastoma. Howard RO. **Trans Am Ophthalmol Soc** 1996;94:299–312; discussion 312–4

[Correlation of multiple gene changes with malignant phenotype of human gastric carcinoma] Gao C, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):671–5 (Eng. Abstr.) **(Chi)**

[Somatic genetics of breast cancer] Bièche I, et al. **Bull Cancer** 1997 Jan;84(1):83–96 (85 ref.) (Eng. Abstr.) **(Fre)**

[Tribulations of the p16/MTS1/CDKN2 tumor gene suppressor: a continuing saga] Larsen CJ. **Bull Cancer** 1997 Apr;84(4):427–30 (27 ref.) (Eng. Abstr.) **(Fre)**

[Towards an allotype of second generation colon cancer] Buecher B, et al. **Gastroenterol Clin Biol** 1995 Dec; 19(12):1004–10 (Eng. Abstr.) **(Fre)**

[Significance of the MTS II gene for the growth behavior of adenocarcinoma of the pancreas] Lynen P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:91–5 (Eng. Abstr.) **(Ger)**

[Glucocorticoid regulated gene in cells of the immune system. Mechanisms of immunomodulation] Fiegl M. **Wien Klin Wochenschr** 1996;108(2):48–50 **(Ger)**

[Molecular etiology of colorectal carcinogenesis, clinical manifestations and therapy] Jacobasch G, et al. **Z Arztl Fortbild Qualitatssich** 1997 Mar;91(2):125–33 (47 ref.) (Eng. Abstr.) **(Ger)**

[Tumor suppressor gene p53--function and significance in gastroenterology] Schoppmeyer K, et al. **Z Gastroenterol** 1997 Jun;35(6):491–509 (153 ref.) (Eng. Abstr.) **(Ger)**

[Oncogenes and tumor suppressor genes in head and neck squamous cell carcinomas] Maestro R, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):21–6 (56 ref.) **(Ita)**

[Oncogenes and oncosuppressor role in head and neck carcinomas] Pastore A, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):31–8 (92 ref.) **(Ita)**

[Oncogenes and tumor suppressor genes: general features] Piccinin S, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):17–20 **(Ita)**

[Expression of nm23/NDP kinase and cancer metastasis] Okada K, et al. **Nippon Rinsho** 1996 Mar;54(3):845–53 (23 ref.) (Eng. Abstr.) **(Jpn)**

[Neurologic diseases due to alterations in oncogenes and tumor suppressing genes] Bello MJ, et al. **Neurologia** 1995 Dec;10 Suppl 1:20–31 (110 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Tumour-suppressor genes in prostatic oncogenesis: a positional approach. Bookstein R, et al. **Br J Urol** 1997 Mar;79 Suppl 1:28–36 (73 ref.)

Frequent abnormalities of FHIT, a candidate tumor suppressor gene, in head and neck cancer cell lines. Mao L, et al. **Cancer Res** 1996 Nov 15;56(22):5128–31

In vitro and in vivo tumor growth suppression by HIV-1 Vpr. Mahalingam S, et al. **DNA Cell Biol** 1997 Feb; 16(2):137–43

Proliferative lifespan checkpoints: cell-type specificity and influence on tumour biology. Wynford-Thomas D. **Eur J Cancer** 1997 Apr;33(5):716–26 (87 ref.)

The Wilms tumor suppressor gene WT1 induces G1 arrest and apoptosis in myeloblastic leukemia M1 cells. Murata Y, et al. **FEBS Lett** 1997 Jun 2;409(1):41–5

Dlg protein is required for junction structure, cell polarity, and proliferation control in Drosophila epithelia. Woods DF, et al. **J Cell Biol** 1996 Sep;134(6):1469–82

Complex interplay among apoptosis factors: RB, p53, E2F, TGF-beta, cell cycle inhibitors and the bcl2 gene family. Chiarugi V, et al. **Pharmacol Res** 1997 Apr;35(4):257–61 (46 ref.)

The role of motility proteins and metastasis-suppressor genes in prostate cancer progression. Rinker-Schaeffer CW, et al. **Stem Cells** 1996 Sep;14(5):508–16 (50 ref.)

Expression of wild-type p53 tumor suppressor gene and its possible involvement in the apoptosis of thyroid tumors. Kikuchi S, et al. **Surg Today** 1997;27(3):226–33

[Antioncogenes--tumor suppression genes] Berbeć H. **Postepy Hig Med Dosw** 1997;51(3):269–84 (67 ref.) (Eng. Abstr.) **(Pol)**

[The effect of the tumor suppressor p53 and its mutant forms on the differentiation and viability of K562 leukemic cells] Kremenetskaia OS, et al. **Tsitologiia** 1996;38(12):1280–93 (Eng. Abstr.) **(Rus)**

GENES, SWITCH

Modified steroid receptors and steroid-inducible promoters as genetic switches for gene therapy. White JH. **Adv Pharmacol** 1997;40:339–67 (155 ref.)

Expression of a cosmid containing the LCR, (A)gamma, delta, and beta globin genes in mouse erythroleukemia cells. Flamm M, et al. **Am J Hematol** 1996 Nov;53(3):181–7

Transcriptional control of globin gene switching during vertebrate development. Baron MH. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):51–72 (175 ref.)

A shortened life span of EKLF-/- adult erythrocytes, due to a deficiency of beta-globin chains, is ameliorated by human gamma-globin chains. Lim SK, et al. **Blood** 1997 Aug 1;90(3):1291–9

Neurotrophin switching: where does it stand? Davies AM. **Curr Opin Neurobiol** 1997 Feb;7(1):110–8 (67 ref.)

Histidine at position 5 is the specificity "switch" between two parathyroid hormone receptor subtypes. Behar V, et al. **Endocrinology** 1996 Oct;137(10):4217–24

Two novel targets of the MAP kinase Kss1 are negative regulators of invasive growth in the yeast Saccharomyces cerevisiae. Cook JG, et al. **Genes Dev** 1996 Nov 15; 10(22):2831–48

The role of EKLF in human beta-globin gene competition. Wijgerde M, et al. **Genes Dev** 1996 Nov 15;10(22):2894–902

Molecular mechanisms of hemoglobin switching. Jane SM, et al. **Int J Biochem Cell Biol** 1996 Nov;28(11):1197–209 (116 ref.)

Dissection of the switch between genes for replication and transfer of promiscuous plasmid RK2: basis of the dominance of trfAp over trbAp and specificity for KorA in controlling the switch. Jagura-Burdzy G, et al. **J Mol Biol** 1997 Feb 7;265(5):507–18

Gene regulation during high-frequency switching in Candida albicans. Soll DR. **Microbiology** 1997 Feb;143 (Pt 2):279–88 (60 ref.)

Developmental specificity of immunoglobulin heavy chain switch region recombination activities. Li MJ, et al. **Mol Immunol** 1997 Feb;34(3):201–8

Purification and characterization of the immunoglobulin switch sequence-specific endonuclease (Endo-SR) from bovine spleen. Lyon CJ, et al. **Mol Immunol** 1997 Feb; 34(3):209–19

Epigenetic silencing of a foreign gene in nuclear transformants of Chlamydomonas. Cerutti H, et al. **Plant Cell** 1997 Jun;9(6):925–45

Binary transgenic mouse model for studying the trans control of globin gene switching: evidence that GATA-1 is an in vivo repressor of human epsilon gene expression. Li Q, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2444–8

No bones about a genetic switch for bone growth [news] Dickman S. **Science** 1997 Jun 6;276(5318):1502

PHYSIOLOGY

Maturation of the acetylcholine receptor in skeletal muscle: regulation of the AChR gamma-to-epsilon switch. Missias AC, et al. **Dev Biol** 1996 Oct 10;179(1):223–38

Manipulation of the vsg co-transposed region increases expression-site switching in Trypanosoma brucei. Davies KP, et al. **Mol Biochem Parasitol** 1997 Jun;86(2):163–77

GENES, SYNTHETIC

Expression of small synthetic genes coding for hEGF, human epidermal growth factor, and CPTI II, serine proteinase inhibitor from Cucurbitacea, cloned in a novel expression/secretion vector in Saccharomyces cerevisiae. Topczewska J, et al. **Acta Biochim Pol** 1996;43(1):255–64

Expression of a synthetic gene encoding the sweet-tasting protein thaumatin in Escherichia coli. Faus I, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):121–7

Human non-pancreatic (group II) secreted phospholipase A2

expressed from a synthetic gene in Escherichia coli: characterisation of N-terminal mutants. Othman R, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):92–102

Expression of natural and synthetic genes encoding herpes simplex virus 1 protease in Escherichia coli and purification of the protein. Apeler H, et al. **Eur J Biochem** 1997 Aug 1;247(3):890–5

Construction and expression of a synthetic wheat storage protein gene. Anderson OD, et al. **Gene** 1996 Sep 26; 174(1):51–8

Delivery of a PCR amplified DNA fragment into cells: a model for using synthetic genes for gene therapy. Li S, et al. **Gene Ther** 1997 May;4(5):449–54

Nomenclature for synthetic gene delivery systems [editorial] Felgner PL, et al. **Hum Gene Ther** 1997 Mar 20;8(5):511–2

A phase I/II pilot study of the safety of the adoptive transfer of syngeneic gene-modified cytotoxic T lymphocytes in HIV-infected identical twins. Walker RE. **Hum Gene Ther** 1996 Feb 10;7(3):367–400

Efficient and sustained transgene expression in mature rat oligodendrocytes in primary culture. Guo Z, et al. **J Neurosci Res** 1996 Jan 1;43(1):32–41

Hyperexpression of a synthetic protein-based polymer gene. Daniell H, et al. **Methods Mol Biol** 1997;63:359–71

In-frame cloning of synthetic genes using PCR inserts. Pierce JC. **Methods Mol Biol** 1997;67:151–65

In vitro recombination and mutagenesis by overlap extension PCR. Pogulis RJ, et al. **Methods Mol Biol** 1996;57:167–76 (19 ref.)

Chemical synthesis of the Plasmodium falciparum dihydrofolate reductase-thymidylate synthase gene. Prapunwattana P, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):93–106

Human artificial chromosomes. Providing a little stability [news] Warburton PE, et al. **Nature** 1997 Apr 10; 386(6625):553–5

Genetic transformation, recovery, and characterization of fertile soybean transgenic for a synthetic Bacillus thuringiensis cryIAc gene. Stewart CN Jr, et al. **Plant Physiol** 1996 Sep;112(1):121–9

Transgenic elite indica rice plants expressing CryIAc delta-endotoxin of Bacillus thuringiensis are resistant against yellow stem borer (Scirpophaga incertulas). Nayak P, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2111–6

A synthetic cryIC gene, encoding a Bacillus thuringiensis delta-endotoxin, confers Spodoptera resistance in alfalfa and tobacco. Strizhov N, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15012–7

Product purification by reversible phase transition following Escherichia coli expression of genes encoding up to 251 repeats of the elastomeric pentapeptide GVGVP. McPherson DT, et al. **Protein Expr Purif** 1996 Feb; 7(1):51–7

Overexpression and large-scale purification of recombinant hamster polymorphic arylamine N-acetyltransferase as a dihydrofolate reductase fusion protein. Šticha KR, et al. **Protein Expr Purif** 1997 Jun;10(1):141–53

Design, synthesis, expression, and characterization of the genes for mouse Fc gamma RIIb1 and Fc gamma RIIb2 cytoplasmic regions. Chen L, et al. **Protein Sci** 1997 May; 6(5):1038–46

Specific targeting of human papillomavirus type 16 E7 oncogene with triple-helix forming purine oligodeoxyribonucleotides. Popa LM, et al. **Rom J Virol** 1995 Jul-Dec;46(3–4):179–88

Secretory expression of a single-chain insulin precursor in yeast and its conversion into human insulin. Zhang Y, et al. **Sci China C Life Sci** 1996 Jun;39(3):225–33

Expression of a synthetic pertussis toxin operon in Escherichia coli. Pozza TD, et al. **Vaccine** 1997 Jun; 15(9):968–75

[Construction of artificial genes by PCR methods using the synthetic template] Gurevich AI, et al. **Bioorg Khim** 1997 Jun;23(6):492–6 (Eng. Abstr.) **(Rus)**

[Expression of synthetic gene for human angiogenin in E. coli cells] Nikonova AA, et al. **Bioorg Khim** 1996 Dec; 22(12):891–3 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Production of recombinant SERA proteins of Plasmodium falciparum in Escherichia coli by using synthetic genes. Sugiyama T, et al. **Vaccine** 1996 Aug;14(11):1069–76

GENES, TAT

Replication in goats in vivo of caprine arthritis–encephalitis virus deleted in vif or tat genes: possible use of these deletion mutants as live vaccines. Harmache A, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):409–11 (9 ref.)

The HIV-1 regulatory genes tat and rev as targets for gene therapy. Caputo A, et al. **Antibiot Chemother** 1996; 48:205–16

The human immunodeficiency virus type 1 Tat protein potentiates zidovudine-induced cellular toxicity in transgenic mice. Prakash O, et al. **Arch Biochem Biophys** 1997 Jul 15;343(2):173–80

Enhancement of TAT-induced transactivation of the HIV-1 LTR by two genomic fragments of HHV-6. Garzino-Demo A, et al. **J Med Virol** 1996 Sep;50(1):20–4

Neutralization sensitivity of cell culture-passaged simian immunodeficiency virus. Means RE, et al. **J Virol** 1997 Oct;71(10):7895–902

Recombinant human immunodeficiency virus type 1 genomes with tat unconstrained by overlapping reading frames reveal residues in Tat important for replication in tissue culture. Neuveut C, et al. **J Virol** 1996 Aug;70(8):5572–81

RNA-targeted activators, but not DNA-targeted activators, repress the synthesis of short transcripts at the human immunodeficiency virus type 1 long terminal repeat. Pendergrast PS, et al. **J Virol** 1997 Feb;71(2):910–7

Cooperation between herpes simplex virus type 1–encoded ICP0 and Tat to support transcription of human immunodeficiency virus type 1 long terminal repeat in vivo can occur in the absence of the TAR binding site. Schafer SL, et al. **J Virol** 1996 Oct;70(10):6937–46

Splicing efficiency of human immunodeficiency virus type 1 tat RNA is determined by both a suboptimal 3′ splice site and a 10 nucleotide exon splicing silencer element located within tat exon 2. Si Z, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):861–7

Activity of human immunodeficiency virus type 1 promoter/TAR regions and tat1 genes derived from individuals with different rates of disease progression. Kirchhoff F, et al. **Virology** 1997 Jun 9;232(2):319–31

GENETICS

Studies on the effect of the combined expression of anti-tat and anti-rev genes on HIV-1 replication. Caputo A, et al. **Gene Ther** 1997 Apr;4(4):288–95

Efficacy of antitat gene therapy in the presence of high multiplicity infection and inflammatory cytokines. Lisziewicz J, et al. **Hum Gene Ther** 1996 Dec 1; 7(18):2209–16

GENES, TAX see **GENES, PX**

GENES, TP53 see **GENES, P53**

GENES, TR-ALPHA see **GENES, ERBA**

GENES, TR-BETA see **GENES, ERBA**

GENES, VIF

Replication in goats in vivo of caprine arthritis–encephalitis virus deleted in vif or tat genes: possible use of these deletion mutants as live vaccines. Harmache A, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20;12(5):409–11 (9 ref.)

Genetic variability and function of the long terminal repeat from syncytium-inducing and non-syncytium-inducing human immunodeficiency virus type 1. Simm M, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):801–9

Requirement of caprine arthritis encephalitis virus vif gene for in vivo replication. Harmache A, et al. **Virology** 1996 Oct 1;224(1):246–55

Serial passage of human immunodeficiency virus type 1 generates misalignment deletions in non-essential accessory genes. Nakaya T, et al. **Virus Res** 1996 Dec;46(1–2):139–47

Elucidation of an HIV-1 transmission from mother to child in west Africa by sequence analysis. Kasper P, et al. **Zentralbl Bakteriol** 1996 Jul;284(2–3):307–17

GENETICS

A high frequency of defective vif genes in peripheral blood mononuclear cells from HIV type 1–infected individuals. Tominaga K, et al. **AIDS Res Hum Retroviruses** 1996 Nov 1;12(16):1543–9

IMMUNOLOGY

Roles of the auxiliary genes and AP-1 binding site in the long terminal repeat of feline immunodeficiency virus in the early stage of infection in cats. Inoshima Y, et al. **J Virol** 1996 Dec;70(12):8518–26

PHYSIOLOGY

Cell-free HIV-1Zr6 vif mutants are defective in binding to peripheral blood mononuclear cells and in internalization. Nagashunmugam T, et al. **DNA Cell Biol** 1996 May; 15(5):353–61

GENES, VIRAL

see related
DNA, VIRAL
RNA, VIRAL
VIRAL PROTEINS

In vivo studies on Aujeszky's disease virus mutants. Boldogkói Z, et al. **Acta Microbiol Immunol Hung** 1996; 43(4):307–18

Sequence analysis of VP7 gene of two Nigerian rotavirus strains. Adah MI, et al. **Acta Virol** 1996 Sep;40(4):187–93

Genome rearrangements of rotaviruses. Desselberger U. **Adv Virus Res** 1996;46:69–95 (69 ref.)

HIV type 1 env gene diversity detected in Taiwan. Chang KS, et al. **AIDS Res Hum Retroviruses** 1997 Jan 20; 13(2):201–4

Adenovirus E1A gene dysregulates ICAM-1 expression in transformed pulmonary epithelial cells. Keicho N, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):23–30

Herpes simplex thymidine kinase gene transfer is required for complete regression of murine colon adenocarcinoma. Nielsen CS, et al. **Am Surg** 1997 Jul;63(7):617–20

A method for direct DNA amplification of uncharacterized DNA viruses and for development of a viral polymerase chain reaction assay: application to the red sea bream iridovirus. Oshima S, et al. **Anal Biochem** 1996 Nov 1; 242(1):15–9

Pancreatic carcinoma cell killing via adenoviral mediated delivery of the herpes simplex virus thymidine kinase gene. Rosenfeld ME, et al. **Ann Surg** 1997 May;225(5):609–18; discussion 618–20

Analysis of the enterohemorrhagic Escherichia coli O157 DNA region containing lambdoid phage gene p and Shiga-like toxin structural genes. Datz M, et al. **Appl Environ Microbiol** 1996 Mar;62(3):791–7

Chlorella virus PBCV-1 encodes a homolog of the bacteriophage T4 UV damage repair gene denV. Furuta M, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1551–6

Identification and transcriptional analysis of pseudorabies virus UL6 to UL12 genes. Dijkstra JM, et al. **Arch Virol** 1997;142(1):17–35

Enhancer element, repetitive sequences and gene organization in an 8-kbp region containing the polyhedrin gene of the Spodoptera littoralis nucleopolyhedrovirus. Faktor O, et al. **Arch Virol** 1997;142(1):1–15

Organization and molecular characterization of genes in the polyhedrin region of the Anagrapha falcifera multinucleocapsid NPV. Federici BA, et al. **Arch Virol** 1997;142(2):333–48

Genetic content of a 20.9 kb segment of human herpesvirus 6B strain Z29 spanning the homologs of human herpesvirus 6A genes U40–57 and containing the origin of DNA replication. Lindquester GJ, et al. **Arch Virol** 1997; 142(1):103–23

Comparison of a 20 kb region of human herpesvirus 6B with other human beta herpesviruses reveals conserved replication genes and adjacent divergent open reading frames. Lindquester GJ, et al. **Arch Virol** 1997; 142(1):193–204

Sequence analysis of the bovine herpesvirus type 1 genes homologous to the DNA polymerase (UL30), the major DNA-binding protein (UL29) and ICP18.5 assembly protein (UL28) genes of herpes simplex virus. Meyer G, et al. **Arch Virol** 1997;142(1):89–102

Conserved sequences in the fibers of epidemic keratoconjunctivitis associated human adenoviruses. Pring-Akerblom P, et al. **Arch Virol** 1997;142(1):205–11

Human herpesvirus 7 (HHV-7) DNA: analyses of clones spanning the entire genome. Singer O, et al. **Arch Virol** 1997;142(2):287–303

Growth ability of auxiliary gene mutants of human immunodeficiency virus types 1 and 2 in unstimulated peripheral blood mononuclear cells. Tokunaga K, et al. **Arch Virol** 1997;142(1):177–81

Deletion analysis of a translational enhancer upstream from the coat protein open reading frame of potato virus S. Turner R, et al. **Arch Virol** 1997;142(1):167–75

The ori of filamentous phage phi Lf is located within the gene encoding the replication initiation protein. Lin NT, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):246–51

Sequence analysis of the capsid gene of feline calicivirus strain F65. Glenn MA, et al. **Biochem Soc Trans** 1996 Aug; 24(3):414S

Epstein-Barr virus genes and cancer cells. Farrell PJ, et al. **Biomed Pharmacother** 1997;51(6–7):258–67 (82 ref.)

Titering replication-defective virus for use in gene transfer. Strayer DS, et al. **Biotechniques** 1997 Mar;22(3):447–50

Analysis of Epstein-Barr virus gene polymorphisms in normal donors and in virus-associated tumors from different geographic locations. Khanim F, et al. **Blood** 1996 Nov 1;88(9):3491–501

Sequence analysis of the Epstein-Barr virus (EBV) latent membrane protein-1 gene and promoter region: identification of four variants among wild-type EBV isolates. Sandvej K, et al. **Blood** 1997 Jul 1;90(1):323–30

Molecular analysis of lytic genes of bacteriophage 80 alpha of Staphylococcus aureus. Bon J, et al. **Can J Microbiol** 1997 Jul;43(7):612–6

Molecular characterization of coat protein genes of serologically distinct isolates of potato virus Y necrotic strain. Dhar AK, et al. **Can J Microbiol** 1997 Jul; 43(7):677–83

Specificity and nucleotyping studies of a gp50-based polymerase chain reaction assay for detection of pseudorabies virus. Harding MJ, et al. **Can J Vet Res** 1997 Apr;61(2):157–60

Gap junctions promote the bystander effect of herpes simplex virus thymidine kinase in vivo. Dilber MS, et al. **Cancer Res** 1997 Apr 15;57(8):1523–8

Epstein-Barr virus episomes as targets for cigarette smoke- and gamma-irradiation-induced DNA damage: studies on the EBNA-1 region by a new gene-specific technique. Yang Q, et al. **Carcinogenesis** 1997 Jul;18(7):1401–5

The cloning, sequence analysis, and expression in E. coli of coat protein gene of grapevine fanleaf virus Gh. Guan H, et al. **Chin J Biotechnol** 1996;12(2):73–9

Molecular variants of hepatitis B virus. Carman WF. **Clin Lab Med** 1996 Jun;16(2):407–28 (97 ref.)

Bifunctionality of the AcMNPV homologous region sequence (hr1): enhancer and ori functions have different sequence requirements. Habib S, et al. **DNA Cell Biol** 1996

Sep;15(9):737–47
Differential regulation of major surface promoter in hepatitis B virus. Kuo YL, et al. **DNA Cell Biol** 1997 May; 16(5):545–57
Sequence of the VP7 gene of an atypical human rotavirus: evidence for genetic and antigenic drift. Palombo EA, et al. **DNA Seq** 1997;7(5):307–11
Sequence comparison of the genes for immunity, DNA replication, and cell lysis of the P22-related Salmonella phages ES18 and L. Schicklmaier P, et al. **Gene** 1997 Aug 11;195(1):93–100
Use of reverse transcription-polymerase chain reaction for cloning of coat protein-encoding genes of cymbidium mosaic virus. Srifah P, et al. **Gene** 1996 Nov 7;179(1):105–7
A rare type of overlapping genes in bacteriophage T4: gene 30.3' is completely embedded within gene 30.3 by one position downstream. Zajanckauskaite A, et al. **Gene** 1997 Jul 31;194(2):157–62
Isolation and characterization of packaging cell lines that coexpress the adenovirus E1, DNA polymerase, and preterminal proteins: implications for gene therapy. Amalfitano A, et al. **Gene Ther** 1997 Mar;4(3):258–63
A stable cell line carrying adenovirus-inducible rep and cap genes allows for infectivity titration of adeno-associated virus vectors. Clark KR, et al. **Gene Ther** 1996 Dec; 3(12):1124–32
In vivo muscle gene transfer of full-length dystrophin with an adenoviral vector that lacks all viral genes. Clemens PR, et al. **Gene Ther** 1996 Nov;3(11):965–72
Analysis of the tumorigenicity of the X gene of hepatitis B virus in a nontransformed hepatocyte cell line and the effects of cotransfection with a murine p53 mutant equivalent to human codon 249. Oguey D, et al. **Hepatology** 1996 Nov;24(5):1024–33
HSV/AAV hybrid amplicon vectors extend transgene expression in human glioma cells. Johnston KM, et al. **Hum Gene Ther** 1997 Feb 10;8(3):359–70
A phase I trial of in vivo gene therapy with the herpes simplex thymidine kinase/ganciclovir system for the treatment of refractory or recurrent ovarian cancer. Link CJ Jr, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1161–79
A retroviral vector that allows efficient co-expression of two genes and the versatility of alternate selection markers. Saleh M. **Hum Gene Ther** 1997 May 20;8(8):979–83
Human papilloma virus E6/E7 genes can expand the lifespan of human corneal fibroblasts. Peters DM, et al. **In Vitro Cell Dev Biol Anim** 1996 May;32(5):279–84
The human cytomegalovirus genes and proteins required for DNA synthesis. Anders DG, et al. **Intervirology** 1996; 39(5–6):378–88 (115 ref.)
Activation and regulation of human cytomegalovirus early genes. Spector DH. **Intervirology** 1996;39(5–6):361–77 (107 ref.)
The human cytomegalovirus major immediate-early gene. Stenberg RM. **Intervirology** 1996;39(5–6):343–9 (56 ref.)
Identification of a new inhibitor of essential division gene ftsZ as the kil gene of defective prophage Rac. Conter A, et al. **J Bacteriol** 1996 Sep;178(17):5100–4
Establishment of a novel chondrocyte-like cell line derived from transgenic mice harboring the temperature-sensitive simian virus 40 large T-antigen gene. Mataga N, et al. **J Bone Miner Res** 1996 Nov;11(11):1646–54
A one-tube method of reverse transcription-PCR to efficiently amplify a 3-kilobase region from the RNA polymerase gene to the poly(A) tail of small round-structured viruses (Norwalk-like viruses). Ando T, et al. **J Clin Microbiol** 1997 Mar;35(3):570–7
Molecular analysis of outer capsid glycoprotein (VP7) genes from two isolates of human group C rotavirus with different genome electropherotypes. Kuzuya M, et al. **J Clin Microbiol** 1996 Dec;34(12):3185–9
Subtype 2c of hepatitis C virus is highly prevalent in Italy and is heterogeneous in the NS5A region. Maggi F, et al. **J Clin Microbiol** 1997 Jan;35(1):161–4
New hepatitis C virus (HCV) genotyping system that allows for identification of HCV genotypes 1a, 1b, 2a, 2b, 3a, 3b, 4, 5a, and 6a. Ohno O, et al. **J Clin Microbiol** 1997 Jan; 35(1):201–7
Automated type specific ELISA probe detection of amplified NS3 gene products of dengue viruses. Chow VT, et al. **J Clin Pathol** 1997 Apr;50(4):346–9
Characterization of the ecdysteroid UDP-glucosyltransferase gene from Mamestra brassicae nucleopolyhedrovirus. Clarke EE, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2865–71
Promoter analysis of a cysteine-rich Campoletis sonorensis polydnavirus gene. Cuit L, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1807–17
Kinetics of viral RNA synthesis following cell-to-cell transmission of human immunodeficiency virus type 1. Davis AJ, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1897–906
The p10 gene of Spodoptera littoralis nucleopolyhedrovirus: nucleotide sequence, transcriptional analysis and unique gene organization in the p10 locus. Faktor O, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2119–28
DNA sequence and transcriptional analysis of the UL1 to UL5 gene cluster of infectious laryngotracheitis virus. Fuchs W, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2221–9
Sequence of RNA2 of the Helicoverpa armigera stunt virus (Tetraviridae) and bacterial expression of its genes. Hanzlik TN, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):799–811
Transmission of tobacco rattle virus isolate PpK20 by its nematode vector requires one of the two non-structural genes in the viral RNA 2. Hernández C, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):465–7
The genes encoding the P39 and CG30 proteins of Bombyx mori nuclear polyhedrosis virus. Lu M, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3135–43
The Lassa fever virus L gene: nucleotide sequence, comparison, and precipitation of a predicted 250 kDa protein with monospecific antiserum. Lukashevich IS, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):547–51
Nucleotide sequence analysis of the large (L) genes of phocine distemper virus and canine distemper virus (corrected sequence) [comment] McIlhatton MA, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):571–6. Comment on: Virology 1993 Mar;193(1):50–65.
Complete nucleotide sequence of tobacco necrosis virus strain DH and genes required for RNA replication and virus movement. Molnár A, et al. **J Gen Virol** 1997 Jun; 78 (Pt 6):1235–9
The human cytomegalovirus glycoprotein B gene (ORF UL55) is expressed early in the infectious cycle. Smuda C, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1981–92
Nucleotide sequence of the herpes simplex virus type 2 gene encoding the protease and capsid protein ICP35. Steffy KR, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1069–72
Inhibition of vesicular stomatitis virus in cells constitutively expressing an antisense RNA targeted against the virus RNA polymerase gene. Takacs AM, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):125–9
Molecular characterization of ovine pestiviruses. Vilček S, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):725–35
Adelaide River virus nucleoprotein gene: analysis of phylogenetic relationships of ephemeroviruses and other rhabdoviruses. Wang Y, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):995–9
Distribution of hepatitis C virus genotypes in German patients with chronic hepatitis C: correlation with clinical and virological parameters. Berg T, et al. **J Hepatol** 1997 Mar;26(3):484–91
High degree of conservation in the hepatitis B virus core gene during the immune tolerant phase in perinatally acquired chronic hepatitis B virus infection. Bozkaya H, et al. **J Hepatol** 1997 Mar;26(3):508–16
Quasispecies nature of hepatitis C virus and response to alpha interferon: significance as a predictor of direct response to interferon. Toyoda H, et al. **J Hepatol** 1997 Jan; 26(1):6–13
Therapeutic antitumor response after immunization with an admixture of recombinant vaccinia viruses expressing a modified MUC1 gene and the murine T-cell costimulatory molecule B7. Akagi J, et al. **J Immunother** 1997 Jan; 20(1):38–47
Induction of immunodeficiency virus-specific immune responses in rhesus monkeys following gene gun-mediated DNA vaccination. Fuller DH, et al. **J Med Primatol** 1996 Jun;25(3):236–41
Sequence analysis of NSP4 gene of human rotavirus allows classification into two main genetic groups. Cunliffe NA, et al. **J Med Virol** 1997 Sep;53(1):41–50
Inhibition of Escherichia coli protein synthesis by abortive translation of phage lambda minigenes. Ontiveros C, et al. **J Mol Biol** 1997 Jun 6;269(2):167–75
On the informational content of overlapping genes in prokaryotic and eukaryotic viruses. Pavesi A, et al. **J Mol Evol** 1997 Jun;44(6):625–31
Monitoring gene therapy with herpes simplex virus thymidine kinase in hepatoma cells: uptake of specific substrates. Haberkorn U, et al. **J Nucl Med** 1997 Feb;38(2):287–94
Rapid evolution of viral RNA genomes. Domingo E. **J Nutr** 1997 May;127(5 Suppl):958S–961S (30 ref.)
Phenotypic and genetic analysis of Lymantria dispar nucleopolyhedrovirus few polyhedra mutants: mutations in the 25K FP gene may be caused by DNA replication errors. Bischoff DS, et al. **J Virol** 1997 Feb;71(2):1097–106
Characterization of a second cleavage site and demonstration of activity in trans by the papain-like proteinase of the murine coronavirus mouse hepatitis virus strain A59. Bonilla PJ, et al. **J Virol** 1997 Feb;71(2):900–9
In vivo study of genetically simplified bovine leukemia virus derivatives that lack tax and rex. Boris-Lawrie K, et al. **J Virol** 1997 Feb;71(2):1514–20
Marek's disease virus latency-associated transcripts belong to a family of spliced RNAs that are antisense to the ICP4 homolog gene. Cantello JL, et al. **J Virol** 1997 Feb; 71(2):1353–61
A viral function represses accumulation of transcripts from productive-cycle genes in mouse ganglia latently infected with herpes simplex virus. Chen SH, et al. **J Virol** 1997 Aug;71(8):5878–84
Initiation of vesicular stomatitis virus mutant polR1 transcription internally at the N gene in vitro. Chuang JL, et al. **J Virol** 1997 Feb;71(2):1466–75
Phylogenetic comparison of the S3 gene of United States prototype strains of bluetongue virus with that of field isolates from California. de Mattos CC, et al. **J Virol** 1996 Aug;70(8):5735–9
Responses of insect cells to baculovirus infection: protein synthesis shutdown and apoptosis. Du X, et al. **J Virol** 1997 Oct;71(10):7866–72
A LAT-associated function reduces productive-cycle gene expression during acute infection of murine sensory neurons with herpes simplex virus type 1. Garber DA, et al. **J Virol** 1997 Aug;71(8):5885–93
Expression of the Autographa californica nuclear polyhedrosis virus apoptotic suppressor gene p35 in nonpermissive Spodoptera littoralis cells. Gershburg E, et al. **J Virol** 1997 Oct;71(10):7593–9
Selection for retroviral insertions into regulated genes. Gogos JA, et al. **J Virol** 1997 Feb;71(2):1644–50
The hepatitis B virus (HBV) precore protein inhibits HBV replication in transgenic mice. Guidotti LG, et al. **J Virol** 1996 Oct;70(10):7056–61
Suppression of the phenotype of gamma(1)34.5- herpes simplex virus 1: failure of activated RNA-dependent protein kinase to shut off protein synthesis is associated with a deletion in the domain of the alpha47 gene. He B, et al. **J Virol** 1997 Aug;71(8):6049–54
Investigation of the dynamics of the spread of human immunodeficiency virus to brain and other tissues by evolutionary analysis of sequences from the p17gag and env genes. Hughes ES, et al. **J Virol** 1997 Feb;71(2):1272–80
Translational regulation of the human cytomegalovirus pp28 (UL99) late gene. Kerry JA, et al. **J Virol** 1997 Feb; 71(2):981–7
Subgenomic replicons of the flavivirus Kunjin: construction and applications. Khromykh AA, et al. **J Virol** 1997 Feb; 71(2):1497–505
Role of early and late replication events in induction of apoptosis by baculoviruses. LaCount DJ, et al. **J Virol** 1997 Feb;71(2):1530–7
Point mutations within the betaG-betaH loop of foot-and-mouth disease virus O1K affect virus attachment to target cells. Leippert M, et al. **J Virol** 1997 Feb; 71(2):1046–51
Late expression of a beta chemokine homolog by murine cytomegalovirus. MacDonald MR, et al. **J Virol** 1997 Feb; 71(2):1671–8
Truncation of the human immunodeficiency virus type 1 envelope glycoprotein allows efficient pseudotyping of Moloney murine leukemia virus particles and gene transfer into CD4+ cells. Mammano F, et al. **J Virol** 1997 Apr; 71(4):3341–5
Effect of a modulator deletion on transcription of the human cytomegalovirus major immediate-early genes in infected undifferentiated and differentiated cells. Meier JL, et al. **J Virol** 1997 Feb;71(2):1246–55
Recovery of cytopathogenic and noncytopathogenic bovine viral diarrhea viruses from cDNA constructs. Meyers G, et al. **J Virol** 1997 Feb;71(2):1735
Assembly of herpes simplex virus capsids using the human cytomegalovirus scaffold protein: critical role of the C terminus. Oien NL, et al. **J Virol** 1997 Feb;71(2):1281–91
Mapping of a major osteomagenic determinant of murine leukemia virus RFB-14 to non-long terminal repeat sequences. Ostergaard M, et al. **J Virol** 1997 Jan;71(1):645–9
The adeno-associated virus (AAV) Rep protein acts as both a repressor and an activator to regulate AAV transcription during a productive infection. Pereira DJ, et al. **J Virol** 1997 Feb;71(2):1079–88
Characterization of the human cytomegalovirus irs1 and trs1 genes: a second immediate-early transcription unit within irs1 whose product antagonizes transcriptional activation. Romanowski MJ, et al. **J Virol** 1997 Feb;71(2):1485–96
Identification of the early actin-rearrangement-inducing factor gene, arif-1, from Autographa californica multicapsid nuclear polyhedrosis virus. Roncarati R, et al. **J Virol** 1997 Oct;71(10):7933–41
Intrarectal transmission of simian immunodeficiency virus in rhesus macaques: selective amplification and host responses to transient or persistent viremia. Trivedi P, et al. **J Virol** 1996 Oct;70(10):6876–83
A novel terminal resolution-like site in the adeno-associated virus type 2 genome. Wang XS, et al. **J Virol** 1997 Feb; 71(2):1140–6
Human adenovirus early region 4 open reading frame 1 genes encode growth-transforming proteins that may be distantly related to dUTP pyrophosphatase enzymes. Weiss RS, et al. **J Virol** 1997 Mar;71(3):1857–70
The highly O-glycosylated glycoprotein gp2 of equine herpesvirus 1 is encoded by gene 71. Wellington JE, et al. **J Virol** 1996 Nov;70(11):8195–8
Reovirus variants selected during persistent infections of L cells contain mutations in the viral S1 and S4 genes and are altered in viral disassembly. Wetzel JD, et al. **J Virol** 1997 Feb;71(2):1362–9
The herpesvirus saimiri ORF50 gene, encoding a transcriptional activator homologous to the Epstein-Barr virus R protein, is transcribed from two distinct promoters of different temporal phases. Whitehouse A, et al. **J Virol** 1997 Mar;71(3):2550–4
Targeted adenovirus gene transfer to endothelial and smooth muscle cells by using bispecific antibodies. Wickham TJ, et al. **J Virol** 1996 Oct;70(10):6831–8
Transcriptional patterns of the pCD41 (U27) locus of human herpesvirus 6. Zhou Y, et al. **J Virol** 1997 May; 71(5):3420–30
Development of a non-radioactive gene probe by PCR for detection of white spot syndrome virus (WSSV). Nunan LM, et al. **J Virol Methods** 1997 Jan;63(1–2):193–201
A baculovirus vector derived from immediately early gene promoter of Autographa californica nuclear polyhedrosis virus. Zhu FX, et al. **J Virol Methods** 1996 Oct;62(1):71–9
The UL2 open reading frame of bovine herpesvirus 1 encodes a uracil-DNA glycosylase. Chung YT, et al. **Microbiol Immunol** 1996;40(12):949–53

Hepatitis B virus with X gene mutation is associated with the majority of serologically "silent" non-b, non-c chronic hepatitis. Fukuda R, et al. **Microbiol Immunol** 1996; 40(7):481-8

Molecular epidemiology of Japanese encephalitis virus in Okinawa. Ma SP, et al. **Microbiol Immunol** 1996; 40(11):847-55

Sequence variation of the hypervariable region in HCV carriers with normal ALT levels: a comparison with symptomatic carriers. Murashima S, et al. **Microbiol Immunol** 1996;40(12):941-7

Sequence analysis of the influenza virus strain A/shearwater/Australia/1/72 (H6N5). Ward AC, et al. **Microbiol Immunol** 1997;41(6):509-12

Isolation and characterization of a strong promoter element from the Streptomyces ghanaensis phage I19 using the gentamicin resistance gene (aacC1) of Tn 1696 as reporter. Labes G, et al. **Microbiology** 1997 May;143 (Pt 5):1503-12

Mycobacteriophage D29 contains an integration system similar to that of the temperate mycobacteriophage L5. Ribeiro G, et al. **Microbiology** 1997 Aug;143 (Pt 8):2701-8

Sequence-mediated regulation of adenovirus gene expression by repression of mRNA accumulation. Prescott JC, et al. **Mol Cell Biol** 1997 Apr;17(4):2207-16

High-frequency transfer of cloned herpes simplex virus type 1 sequences to mammalian cells by protoplast fusion. Sandri-Goldin RM, et al. **Mol Cell Biol** 1981 Aug; 1(8):743-52

Coat protein gene and 3'-noncoding region of a new Korean isolate of cymbidium mosaic virus. Youn HS, et al. **Mol Cells** 1997 Feb 28;7(1):34-9

Expression of a bacterial endo beta-1,3-glucanase gene under the control of CAMV 35S promoter in Nicotiana plumbaguinifolia protoplasts. Oming GW, et al. **Mol Gen Mikrobiol Virusol** 1997;(1):30-4

Herpesvirus genes: molecular basis of viral replication and pathogenicity. Nishiyama Y. **Nagoya J Med Sci** 1996 Dec; 59(3-4):107-19 (55 ref.)

Kaposi's sarcoma-associated herpesvirus encodes a functional bcl-2 homologue. Sarid R, et al. **Nat Med** 1997 Mar; 3(3):293-8

Gene acquisition in HIV and SIV [letter] Sharp PM, et al. **Nature** 1996 Oct 17;383(6601):586-7

Inhibition of intratracheal lung cancer development by systemic delivery of E1A. Chang JY, et al. **Oncogene** 1996 Oct 3;13(7):1405-12

Development and malignant progression of astrocytomas in GFAP-v-src transgenic mice. Weissenberger J, et al. **Oncogene** 1997 May 1;14(17):2005-13

Analysis of the hypervariable region of hepatitis C virus E2/NS1 gene in an infant infected by blood transfusion. Sugiyama K, et al. **Pediatr Res** 1997 Aug;42(2):247-50

Characterization of RNA-mediated resistance to tomato spotted wilt virus in transgenic tobacco plants expressing NS(M) gene sequences. Prins M, et al. **Plant Mol Biol** 1997 Jan;33(2):235-43

Ultrarapid, highly efficient viral gene transfer to the heart. Donahue JK, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4664-8

The E5 gene product of rhesus papillomavirus is an activator of endogenous Ras and phosphatidylinositol-3'-kinase in NIH 3T3 cells. Ghai J, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12879-84

Sialadenitis histologically resembling Sjogren syndrome in mice transgenic for hepatitis C virus envelope genes. Koike K, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):233-6

A deletion mutant in the human cytomegalovirus gene encoding IE1(491aa) is replication defective due to a failure in autoregulation. Mocarski ES, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11321-6

The function of herpes simplex virus genes: a primer for genetic engineering of novel vectors. Roizman B. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11307-12 (45 ref.)

Nucleotide sequence of the Kaposi sarcoma-associated herpesvirus (HHV8). Russo JJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14862-7

Human trophoblast and choriocarcinoma expression of the growth factor pleiotrophin attributable to germ-line insertion of an endogenous retrovirus. Schulte AM, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14759-64

Proviral insertions induce the expression of bone-specific isoforms of PEBP2alphaA (CBFA1): evidence for a new myc collaborating oncogene. Stewart M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8646-51

Sequence analyses of NS3 genes of recent Pakistan and Singapore strains of dengue virus types 1 and 2. Chow VT, et al. **Res Virol** 1997 Jan-Feb;148(1):17-20

First genes isolated from the deadly 1918 flu virus [news; comment] Pannisi E. **Science** 1997 Mar 21;275(5307):1739 . Comment on: Science 1997 Mar 21;275(5307):1793-6.

Initial genetic characterization of the 1918 "Spanish" influenza virus [see comments] Taubenberger JK, et al. **Science** 1997 Mar 21;275(5307):1793-6. Comment in: Science 1997 Mar 21;275(5307):1739.

A comparison of amino acid sequences of hepatitis B virus S gene in 46 children presenting various clinical features for immunoprophylaxis. Miyake Y, et al. **Tohoku J Exp Med** 1996 Nov;180(3):233-47

Receptors for gamma-interferon encoded by poxviruses: implications for the unknown origin of vaccinia virus. Alcami A, et al. **Trends Microbiol** 1996 Aug;4(8):321-6 (38 ref.)

Rapid identification of Newcastle disease virus vaccine strains LaSota and B-1 by restriction site analysis of their matrix gene. Wehmann E, et al. **Vaccine** 1997 Aug-Sep; 15(12-13):1430-3

Involvement of human immunodeficiency virus type-1 splice sites in the cytoplasmic accumulation of viral RNA. Borg KT, et al. **Virology** 1997 Sep 15;236(1):95-103

Characterization of host range factor 1 (hrf-1) expression in Lymantria dispar M nucleopolyhedrovirus- and recombinant Autographa californica M nucleopolyhedrovirus-infected IPLB-Ld652Y cells. Du X, et al. **Virology** 1997 Jan 20;227(2):420-30

Deletion analysis of four of eighteen late gene expression factor gene homologues of the baculovirus, BmNPV. Gomi S, et al. **Virology** 1997 Mar 31;230(1):35-47

Identification of cis-acting repressor activity within human immunodeficiency virus type 1 protease sequences. Huffman KM, et al. **Virology** 1997 Aug 4;234(2):253-60

Single amino acid changes in the murine leukemia virus capsid protein gene define the target of Fv1 resistance. Kozak CA, et al. **Virology** 1996 Nov 15;225(2):300-5

Analysis of the long terminal repeat from a cytopathic strain of equine infectious anemia virus. Madden CR, et al. **Virology** 1996 Nov 15;225(2):395-9

Partial substitution of the functions of the herpes simplex virus 1 U(L)13 gene by the human cytomegalovirus U(L)97 gene. Ng TI, et al. **Virology** 1996 Nov 15;225(2):347-58

Differentiation of the shutoff of protein synthesis by virion host shutoff and mutant gamma (1)34.5 genes of herpes simplex virus 1. Poon AP, et al. **Virology** 1997 Mar 3; 229(1):98-105

Complementation of a vaccinia virus host-range K1L gene deletion by the nonhomologous CP77 gene. Ramsey-Ewing AL, et al. **Virology** 1996 Aug 1; 222(1):75-86

Mason-Pfizer monkey virus (MPMV) constitutive transport element (CTE) functions in a position-dependent manner. Rizvi TA, et al. **Virology** 1997 Sep 15;236(1):118-29

Disruption of the varicella-zoster virus dUTPase and the adjacent ORF9A gene results in impaired growth and reduced syncytia formation in vitro. Ross J, et al. **Virology** 1997 Aug 4;234(2):186-95

Rescue of a viral gene from VERO cells latently infected with influenza virus B/Lee/40. Tobita K, et al. **Virology** 1997 Sep 15;236(1):130-6

Characterization of a promoter in the E7 open reading frame of human papillomavirus type 11. Tomita Y, et al. **Virology** 1996 Nov 15;225(2):267-73

Paracrine activation of the HIV-1 LTR promoter by the viral Tat protein is mechanistically similar to trans-activation within a cell. Verhoef K, et al. **Virology** 1996 Nov 15;225(2):316-27

Genetic analysis of the monopartite tomato yellow leaf curl geminivirus: roles of V1, V2, and C2 ORFs in viral pathogenesis. Wartig L, et al. **Virology** 1997 Feb 17; 228(2):132-40

Isolation of recombinant viruses between cauliflower mosaic virus and a viral gene in transgenic plants under conditions of moderate selection pressure [published erratum appears in Virology 1997 Feb 17;228(2):405] Wintermantel WM, et al. **Virology** 1996 Sep 1;223(1):156-64

Construction of ovine adenovirus recombinants by gene insertion or deletion of related terminal region sequences. Xu ZZ, et al. **Virology** 1997 Mar 31;230(1):62-71

Phylogenetic and epidemiologic analysis of the walleye dermal sarcoma virus. Zhang Z, et al. **Virology** 1996 Nov 15;225(2):406-12

Analysis of the fusion protein gene of the porcine rubulavirus LPMV: comparative analysis of paramyxovirus F proteins. Berg M, et al. **Virus Genes** 1997;14(1):55-61

Inter- and intra-patient sequence diversity among parainfluenza virus-type 1 nucleoprotein genes. Dave VP, et al. **Virus Genes** 1997;14(2):153-6

Analysis of the phylogenetic placement of different spumaretroviral genes reveals complex pattern of foamy virus evolution. Dias HW, et al. **Virus Genes** 1995; 11(2-3):183-90 (29 ref.)

Sequence and phylogenetic analysis of the cytoplasmic inclusion protein gene of zucchini yellow mosaic potyvirus: its role in classification of the Potyviridae. Lee KC, et al. **Virus Genes** 1997;14(1):41-53

Identification and characterization of the feline herpesvirus type 1 glycoprotein C gene. Maeda K, et al. **Virus Genes** 1997;14(2):105-9

Gene homology between orf virus and smallpox variola virus. Mercer AA, et al. **Virus Genes** 1996;13(2):175-8

The VP3 gene of human group C rotavirus. Samarbaf-Zadeh AR, et al. **Virus Genes** 1996;13(2):169-73

Identification and DNA sequence analysis of the Marek's disease virus serotype 2 genes homologous to the thymidine kinase and UL24 genes of herpes simplex virus type 1. Shimojima Y, et al. **Virus Genes** 1997;14(1):81-7

Comparative sequence analysis and expression of the M6 gene, encoding the outer capsid protein VP5, of African horsesickness virus serotype nine. du Plessis M, et al. **Virus Res** 1997 Jan;47(1):41-9

Sequence analysis of the VP6 gene in group A turkey and chicken rotaviruses. Ito H, et al. **Virus Res** 1997 Jan; 47(1):79-83

Characterization of the 3' proximal gene of the citrus tristeza closterovirus genome. Pappu SS, et al. **Virus Res** 1997 Jan; 47(1):51-7

[Expression and significance of hepatitis B virus genes in human primary intrahepatic cholangiocarcinoma and its surrounding tissue] Wang W, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):127-30 (Eng. Abstr.) **(Chi)**

[Latency of Epstein-Barr virus and its relationship to nasopharyngeal carcinomas] You S, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):23-6 (Eng. Abstr.) **(Chi)**

[High homology between antigen of HFRSV with anti-idiotype antibody against HFRSY] Gao L, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):349-51 (Eng. Abstr.) **(Chi)**

[Virulent factors of Legionella pneumophila and their uses in molecular epidemiology] Lu XH, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1995 Dec; 16(6):372-4 (15 ref.) **(Chi)**

[The reversing effect of HPV-16 E6E7 gene antisense plasmid on the HPV-16 positive human cervical carcinoma cells] Zeng P, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1995 Dec;24(6):348-51 (Eng. Abstr.) **(Chi)**

[Analysis of hepatitis C virus (HCV) genotypes in hepatocellular carcinoma] Shirakawa H. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):677-88 (Eng. Abstr.) **(Jpn)**

[Development of collagen vascular diseases and production of autoantibodies in HTLV-I env-pX transgenic rats] Yamazaki H. **Hokkaido Igaku Zasshi** 1996 May; 71(3):325-43 (Eng. Abstr.) **(Jpn)**

[Detection of hepatitis B virus by using polymerase chain reaction and nonradioactive DNA probes. II. Identification of mutations in the core gene by PCR-direct sequencing and ASO probe method] Yamashita K, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1072-8 (Eng. Abstr.) **(Jpn)**

[Inhibition of apoptosis by a baculovirus p35 gene] Ohtsubo T, et al. **Nippon Rinsho** 1996 Jul;54(7):1907-11 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Possibility of transfer of genetic information of type D retroviruses from lymphocytes of patients with B-cells lymphosarcomas into raji cells] Il'in KV, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):446-8 **(Rus)**

[Silent mutations in the region of overlapping genes] Kozlov NN. **Dokl Akad Nauk** 1996 Oct;350(5):699-703 **(Rus)**

[Expression of the CMV-lacZ- and RSV-lacZ-genes in transgenic fish and mouse embryos] Andreeva LE, et al. **Genetika** 1996 Dec;32(12):1661-8 (Eng. Abstr.) **(Rus)**

[Cloning and study of the expression of Pseudomonas aeruginosa cip1 gene by phage-transposon D3112 in a homologous host and in Escherichia coli] Bidenko EM, et al. **Genetika** 1996 Jul;32(7):914-21 (Eng. Abstr.) **(Rus)**

[Attenuation of bacteriophage phi80 repression] Kozyrev DP, et al. **Genetika** 1996 Sep;32(9):1172-5 (Eng. Abstr.) **(Rus)**

[Divergence between "early" genes from defective phages of various strains of soil bacilli, close to Bacillus subtilis 168] Lotareva OV, et al. **Genetika** 1997 Jun;33(6):752-6 (Eng. Abstr.) **(Rus)**

[Cloning and sequencing of genes coding the glycoproteins of antigens A and B of oncogenic strain JM of Marek disease virus (MDV)] Bedristov AI, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul-Sep;(3):6-11 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Inhibition of human cytomegalovirus immediate-early gene expression by an antisense oligonucleotide complementary to immediate-early RNA. Anderson KP, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2004-11

In vitro inhibition of hepatitis C virus gene expression by chemically modified antisense oligodeoxynucleotides. Vidalin O, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2337-44

GENETICS

Evaluation of prodrugs ability to induce effective ablation of cells transduced with viral thymidine kinase gene. Kuriyama S, et al. **Anticancer Res** 1996 Sep-Oct; 16(5A):2623-8

Influence of Marek's disease virus strain AC-1 on cellular immunity in birds carrying endogenous viral genes. Lessard M, et al. **Avian Dis** 1996 Jul-Sep;40(3):645-53

Role of mouse polyomavirus late region in the control of viral DNA replication: a review. Iacoangeli A, et al. **Biochimie** 1995;77(10):780-6 (50 ref.)

Pathogenesis of chronic Epstein-Barr virus infection: detection of a virus strain with a high rate of lytic replication. Jäger M, et al. **Br J Haematol** 1996 Dec; 95(4):626-36

Development of thymic carcinoma in transgenic mice expressing SV40 T antigen. Park WY, et al. **Cancer Lett** 1996 Oct 22;107(2):293-300

Nuclear import and cell cycle arrest functions of the HIV-1 Vpr protein are encoded by two separate genes in HIV-2/SIV(SM). Fletcher TM 3rd, et al. **EMBO J** 1996 Nov 15;15(22):6155-65

The early gene region completes the nucleotide sequence of Lactobacillus delbrueckii subsp. lactis phage LL-H. Mikkonen M, et al. **Gene** 1996 Oct 10;175(1-2):49-57

GENES, VIRAL

Loss of retroviral gene expression in bone marrow reconstituted mice correlates with down-regulation of gene expression in long-term culture initiating cells. Lange C, et al. **Gene Ther** 1997 Apr;4(4):303-8

Physical status and expression of HPV genes in cervical cancers. Park JS, et al. **Gynecol Oncol** 1997 Apr;65(1):121-9

Major sequence variants in E7 gene of human papillomavirus type 16 from cervical cancerous and noncancerous lesions of Korean women. Song YS, et al. **Gynecol Oncol** 1997 Aug;66(2):275-81

Transcription of latent and replicative Epstein-Barr-virus genes in bone-marrow and peripheral-blood mononuclear cells of healthy donors. Gonnella R, et al. **Int J Cancer** 1997 Mar 4;70(5):524-9

Evidence for ease of transmission of human papillomavirus DNA from sperm to cells of the uterus and embryo. Chan PJ, et al. **J Assist Reprod Genet** 1996 Jul;13(6):516-9

The virion proteins encoded by bacteriophage phi K and its host-range mutant phi KhT: host-range determination and DNA binding properties. Kodaira K, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1062-9

Serological determination of hepatitis C virus genotype: comparison with a standardized genotyping assay. Pawlotsky JM, et al. **J Clin Microbiol** 1997 Jul;35(7):1734-9

Baculoviruses contain a gene for the large subunit of ribonucleotide reductase. van Strien EA, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2365-77

Constrained evolution with respect to gene overlap of hepatitis B virus. Mizokami M, et al. **J Mol Evol** 1997;44 Suppl 1:S83-90

Characterization of the bovine prion protein gene: the expression requires interaction between the promoter and intron. Inoue S, et al. **J Vet Med Sci** 1997 Mar;59(3):175-83

Species-specific effects of the hcf-1 gene on baculovirus virulence. Lu A, et al. **J Virol** 1996 Aug;70(8):5123-30

Expression of the endogenous Marek's disease virus ICP4 homolog (MDV ICP4) gene is enhanced in latently infected cells by transient transfection with the recombinant MDV ICP4 gene. Endoh D, et al. **Jpn J Vet Res** 1995 Dec; 43(3-4):109-24

Early occurrence of metastatic differentiated thyroid carcinomas in transgenic mice expressing the A2a adenosine receptor gene and the human papillomavirus type 16 E7 oncogene. Coppée F, et al. **Oncogene** 1996 Oct 3;13(7):1471-82

High prevalence of a 30-base pair deletion and single-base mutations within the carboxy terminal end of the LMP-1 oncogene of Epstein-Barr virus in the Japanese population. Itakura O, et al. **Oncogene** 1996 Oct 3;13(7):1549-53

Lack of loss of heterozygosity at the c-erbA beta locus in gastrointestinal tumors [published erratum appears in Oncology 1997 Sep-Oct;54(5):370] Huber-Gieseke T, et al. **Oncology** 1997 May-Jun;54(3):214-9

A deleted retroviral insertion at the ev21-K complex locus in Indonesian chickens. Tixier-Boichard M, et al. **Poult Sci** 1997 May;76(5):733-42

Persistence in muscle of an adenoviral vector that lacks all viral genes. Chen HH, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1645-50

A new immune escape mutant of hepatitis B virus with an Asp to Ala substitution in aa144 of the envelope major protein. Ni F, et al. **Res Virol** 1995 Nov-Dec; 146(6):397-407

Hexon sequence of adenovirus type 7 and comparison with other serotypes of subgenus B. Pring-Akerblom P, et al. **Res Virol** 1995 Nov-Dec;146(6):383-388

Are particular Epstein-Barr virus strains linked to disease? Jenkins PJ, et al. **Semin Cancer Biol** 1996 Aug;7(4):209-15 (52 ref.)

Regulation of Epstein-Barr virus latency by latent membrane protein 2. Longnecker R, et al. **Trends Microbiol** 1996 Jan; 4(1):38-42 (59 ref.)

Scaffolding mutants identifying domains required for P22 procapsid assembly and maturation. Greene B, et al. **Virology** 1996 Nov 1;225(1):82-96

Human adenovirus type 5 variants with sequence alterations flanking the E2A gene: effects on E2 expression and DNA replication. Caravokyri C, et al. **Virus Genes** 1996; 12(1):65-75

Nucleotide sequences of the M gene of prevailing wild measles viruses and a comparison with subacute sclerosing panencephalitis virus. Kai C, et al. **Virus Genes** 1996; 12(1):85-7

Rational use of polymerase chain reaction--based detection of viral genomes in patients with serologic markers of hepatitis B or C virus infection. Pfeffel F, et al. **Wien Klin Wochenschr** 1997 Jan 17;109(1):20-4

[Hepatitis B virus mutants---clinical significance] Blum HE, et al. **Z Gastroenterol** 1997 May;35(5):347-55 (79 ref.) (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Relative importance and functional role of genetic elements targeted for a live attenuated AIDS vaccine. Lang SM, et al. **Antibiot Chemother** 1996;48:92-9 (37 ref.)

In vivo properties of a feline herpesvirus type 1 mutant carrying a lacZ insertion at the gI locus of the unique short segment. Willemse MJ, et al. **Vaccine** 1996 Jan;14(1):1-5

PHYSIOLOGY

Neoplastic transformation of prostatic and urogenital epithelium by the polyoma virus middle T gene. Tehranian A, et al. **Am J Pathol** 1996 Oct;149(4):1177-91

Unscheduled DNA replication precedes apoptosis of photoreceptors expressing SV40 T antigen. Al-Ubaidi MR, et al. **Exp Eye Res** 1997 Apr;64(4):573-85

E4 gene function in adenovirus, adenovirus vector and adeno-associated virus infections. Leppard KN. **J Gen Virol** 1997 Sep;78 (Pt 9):2131-8 (66 ref.)

African swine fever virus gene A179L, a viral homologue of bcl-2, protects cells from programmed cell death. Brun A, et al. **Virology** 1996 Nov 1;225(1):227-30

GENES, VPR

Production of doughnut-shaped, protease-defective particles from a human T cell clone carrying a provirus with specific mutations in the env, pol, vpr, and nef genes. Bahmani MK, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10; 13(6):523-6

Gross defects in the vpr and vpu genes of HIV type 1 cannot explain the differences in RNA copy number between long-term asymptomatics and progressors. Cornelissen M, et al. **AIDS Res Hum Retroviruses** 1997 Feb 10;13(3):247-52

Construction and characterization of a stable full-length macrophage-tropic HIV type 1 molecular clone that directs the production of high titers of progeny virions. Theodore TS, et al. **AIDS Res Hum Retroviruses** 1996 Feb 10;12(3):191-4

The mutation rate of human immunodeficiency virus type 1 is influenced by the vpr gene. Mansky LM. **Virology** 1996 Aug 15;222(2):391-400

Gene defects clustered at the C-terminus of the vpr gene of HIV-1 in long-term nonprogressing mother and child pair: in vivo evolution of vpr quasispecies in blood and plasma. Wang B, et al. **Virology** 1996 Sep 1;223(1):224-32

Serial passage of human immunodeficiency virus type 1 generates misalignment deletions in non-essential accessory genes. Nakaya T, et al. **Virus Res** 1996 Dec;46(1-2):139-47

GENETICS

An HIV-1 infected long-term non-progressor (LTNP): molecular analysis of HIV-1 strains in the vpr and nef genes. Saksena NK, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):848-54

PHYSIOLOGY

Human immunodeficiency virus type 1 vpr gene induces phenotypic effects similar to those of the DNA alkylating agent, nitrogen mustard. Poon B, et al. **J Virol** 1997 May; 71(5):3961-71

GENES, VPU

Gross defects in the vpr and vpu genes of HIV type 1 cannot explain the differences in RNA copy number between long-term asymptomatics and progressors. Cornelissen M, et al. **AIDS Res Hum Retroviruses** 1997 Feb 10;13(3):247-52

Mutations in the vpu, env, and nef genes of a syncytium-inducing variant of HIV type 1 JR-CSF that infects a range of T cell lines. Klasse PJ, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):347-50

GENES, WILMS' TUMOR

Two N-terminal self-association domains are required for the dominant negative transcriptional activity of WT1 Denys-Drash mutant proteins. Holmes G, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):723-8

Effects of Denys-Drash syndrome point mutations on the DNA binding activity of the Wilms' tumor suppressor protein WT1. Borel F, et al. **Biochemistry** 1996 Sep 17; 35(37):12070-6

Atypical presentation of Denys-Drash syndrome in a female with a novel Wt1 gene mutation. Machin GA. **Birth Defects Orig Artic Ser** 1996;30(1):269-86 (29 ref.)

High levels of Wilms' tumor gene (wt1) mRNA in acute myeloid leukemias are associated with a worse long-term outcome. Bergmann L, et al. **Blood** 1997 Aug 1; 90(3):1217-25

Aberrant overexpression of the Wilms tumor gene (WT1) in human leukemia. Inoue K, et al. **Blood** 1997 Feb 15; 89(4):1405-12

Wilms' tumor gene expression in human CD34+ hematopoietic progenitors during fetal development and early clonogenic growth [letter] Menssen HD, et al. **Blood** 1997 May 1;89(9):3486-7

Increased expression of the Wilms tumor gene (WT1) at relapse in acute leukemia [letter] Tamaki H, et al. **Blood** 1996 Dec 1;88(11):4396-8

Allelic imbalance at chromosome 1q21 in Wilms tumor. Law MH, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):54-9

WT1 expression alters tumorigenicity of the G401 kidney-derived cell line. McMaster ML, et al. **Cell Growth Differ** 1995 Dec;6(12):1609-17

Population variation at the polymorphic ApaLI restriction enzyme site in intron 5 of the WT1 gene. Besnard-Guérin C, et al. **Clin Genet** 1996 Dec;50(6):555-7

Chromosome translocation-mediated conversion of a tumor suppressor gene into a dominant oncogene: fusion of EWS1 to WT1 in desmoplastic small round cell tumors. Rauscher FJ 3rd. **Curr Top Microbiol Immunol** 1997;220:151-62 (47 ref.)

Comparative genomic hybridization analysis of Wilms tumors. Steenman M, et al. **Cytogenet Cell Genet** 1997; 77(3-4):296-303

Differential regulation of two sets of mesonephric tubules by WT-1. Sainio K, et al. **Development** 1997 Apr; 124(7):1293-9

PAX8-mediated activation of the wt1 tumor suppressor gene. Dehbi M, et al. **EMBO J** 1996 Aug 15;15(16):4297-306

Regulation of WT1 by phosphorylation: inhibition of DNA binding, alteration of transcriptional activity and cellular translocation. Ye Y, et al. **EMBO J** 1996 Oct 15; 15(20):5606-15

The Wilms' tumor gene is expressed in a subset of CD34+ progenitors and downregulated early in the course of differentiation in vitro. Maurer U, et al. **Exp Hematol** 1997 Aug;25(9):945-50

Identification of nuclear localization signals within the zinc fingers of the WT1 tumor suppressor gene product. Bruening W, et al. **FEBS Lett** 1996 Sep 9;393(1):41-7

Serum-dependent and cell cycle-dependent expression from a cytomegalovirus-based mammalian expression vector. Brightwell G, et al. **Gene** 1997 Jul 18;194(1):115-23

Familial Wilms' tumor associated with a WT1 zinc finger mutation. Kaplinsky C, et al. **Genomics** 1996 Dec 15; 38(3):451-3

Immunohistochemical detection of the Wilms' tumour gene WT1 in desmoplastic small round cell tumour. Charles AK, et al. **Histopathology** 1997 Apr;30(4):312-4

A novel mutation H373Y in the Wilms' tumor suppressor gene, WT1, associated with Denys-Drash syndrome. Ghahremani M, et al. **Hum Hered** 1996 Nov-Dec; 46(6):336-8

A clinical overview of WT1 gene mutations. Little M, et al. **Hum Mutat** 1997;9(3):209-25 (118 ref.)

Analysis of WT1 gene expression during mouse nephrogenesis in organ culture. Yeger H, et al. **In Vitro Cell Dev Biol Anim** 1996 Sep;32(8):496-504

Sp1 is a critical regulator of the Wilms' tumor-1 gene. Cohen HT, et al. **J Biol Chem** 1997 Jan 31;272(5):2901-13

Decreased expression of Wilms' tumor gene WT-1 and elevated expression of insulin growth factor-II (IGF-II) and type 1 IGF receptor genes in prostatic stromal cells from patients with benign prostatic hyperplasia. Dong G, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2198-203

Regulation of insulin-like growth factor I receptor gene expression by the Wilms' tumor suppressor WT1. Werner H, et al. **J Mol Neurosci** 1996 Summer;7(2):111-23

Identical genetic changes in different histologic components of Wilms' tumors [see comments] Zhuang Z, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1148-52. Comment in: J Natl Cancer Inst 1997 Aug 6;89(15):1089-91.

Wilms tumor gene expression in acute myeloid leukemias. Bergmann L, et al. **Leuk Lymphoma** 1997 May; 25(5-6):435-43 (55 ref.)

Prognostic significance of WT1 gene expression at diagnosis in adult de novo acute myeloid leukemia. Schmid D, et al. **Leukemia** 1997 May;11(5):639-43

A novel repressor, par-4, modulates transcription and growth suppression functions of the Wilms' tumor suppressor WT1. Johnstone RW, et al. **Mol Cell Biol** 1996 Dec; 16(12):6945-56

Expression of the Wilms' tumour gene WT1 in the developing human and in paediatric renal tumours: an immunohistochemical study. Charles AK, et al. **Mol Pathol** 1997 Jun;50(3):138-44

Transcriptional activation of the syndecan-1 promoter by the Wilms' tumor protein WT1. Cook DM, et al. **Oncogene** 1996 Oct 17;13(8):1789-99

Differential regulation of the human Wilms tumour suppressor gene (WT1) promoter by two isoforms of PAX2. McConnell MJ, et al. **Oncogene** 1997 Jun 5; 14(22):2689-700

The familial Wilms' tumour susceptibility gene, FWT1, may not be a tumour suppressor gene. Rahman N, et al. **Oncogene** 1997 Jun 26;14(25):3099-102

RNA binding by the Wilms tumor suppressor zinc finger proteins. Caricasole A, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7562-6

Correlation of germ-line mutations and two-hit inactivation of the WT1 gene with Wilms tumors of stromal-predominant histology. Schumacher V, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3972-7

Altered expression of the WT1 wilms tumor suppressor gene in human breast cancer. Silberstein GB, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8132-7

[Genetic alterations associated with pathologic differentiation of Wilms' tumors] Chevalier G, et al. **Bull Cancer** 1997 Mar;84(3):289-303 (127 ref.) (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

WT1 contributes to leukemogenesis: expression patterns in 7,12-dimethylbenz[a]anthracene (DMBA)-induced leukemia. Osaka M, et al. **Int J Cancer** 1997 Aug 7; 72(4):696-9

GENETICS

Differential regulation of the Wilms' tumor gene, WT1, during differentiation of embryonal carcinoma and embryonic stem cells. Scharnhorst V, et al. **Cell Growth Differ** 1997 Feb;8(2):133-43

Wilms' tumor suppressor gene is involved in the development

of disparate kidney forms: evidence from expression in the Xenopus pronephros. Carroll TJ, et al. **Dev Dyn** 1996 Jun; 206(2):131–8

Regulation of the Wilms' tumor gene during spermatogenesis. Del Rio–Tsonis K, et al. **Dev Dyn** 1996 Dec;207(4):372–81

Dominant-negative mutations of the Wilms' tumour predisposing gene (WT1) are infrequent in CML blast crisis and de novo acute leukaemia. Carapeti M, et al. **Eur J Haematol** 1997 May;58(5):346–9

cDNA cloning and its pronephros–specific expression of the Wilms' tumor suppressor gene, WT1, from Xenopus laevis. Semba K, et al. **Gene** 1996 Oct 10;175(1–2):167–72

LINE–1 element insertion at the t(11;22) translocation breakpoint of a desmoplastic small round cell tumor. Liu J, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):232–9

Differential splicing of exon 5 of the Wilms tumour (WTI) gene. Renshaw J, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):256–66

Localization of a novel t(1;7) translocation associated with Wilms' tumor predisposition and skeletal abnormalities. Reynolds PA, et al. **Genes Chromosomes Cancer** 1996 Nov; 17(3):151–5

Immunohistochemical expression of p53 proteins in Wilms' tumour: a possible association with the histological prognostic parameter of anaplasia. Cheah PL, et al. **Histopathology** 1996 Jan;28(1):49–54

Malignant origin of the stromal component of Wilms' tumor [editorial; comment] Pritchard–Jones K. **J Natl Cancer Inst** 1997 Aug 6;89(15):1089–91. Comment on: J Natl Cancer Inst 1997 Aug 6;89(15):1148–52.

No evidence of WT1 gene mutations in children with congenital diaphragmatic hernia. Nordenskjöld A, et al. **J Pediatr Surg** 1996 Jul;31(7):925–7

Polymorphic and tissue–specific imprinting of the human Wilms tumor gene, WT1. Nishiwaki K, et al. **Jpn J Hum Genet** 1997 Mar;42(1):205–11

Regulation of renal EGF receptor expression is normal in Denys–Drash syndrome. Vicanek C, et al. **Kidney Int** 1997 Sep;52(3):614–9

Mutation analysis of the WT1 gene in sporadic childhood leukaemia. Algar E, et al. **Leukemia** 1997 Jan;11(1):110–3

Fusion of the EWS1 and WT1 genes as a result of the t(11;22)(p13;q12) translocation in desmoplastic small round cell tumors. Benjamin LE, et al. **Med Pediatr Oncol** 1996 Nov;27(5):434–9 (34 ref.)

Functional properties of WT1. Haber DA, et al. **Med Pediatr Oncol** 1996 Nov;27(5):453–5

Tissue–specific regulation of the WT1 locus. Hewitt JA, et al. **Med Pediatr Oncol** 1996 Nov;27(5):456–61

Germline WT1 mutations in Wilms' tumor patients: preliminary results. Li FP, et al. **Med Pediatr Oncol** 1996 Nov;27(5):404–7

PHYSIOLOGY

Induction of p21 by the Wilms' tumor suppressor gene WT1. Englert C, et al. **Cancer Res** 1997 Apr 15;57(8):1429–34

GENETIC CARRIERS see **HETEROZYGOTE**

GENETIC CARRIERS, DETECTION see **HETEROZYGOTE DETECTION**

GENETIC CODE

Screening of the 3' two–thirds of the coding area of the apo B gene in Finnish hypercholesterolemic patients report of six new genetic variants. Ilmonen M, et al. **Atherosclerosis** 1997 Feb 10;128(2):191–9

Translational bypassing: a new reading alternative of the genetic code. Groisman I, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1055–9 (21 ref.)

Miscoding properties of model estrogen–DNA adducts in reactions catalyzed by mammalian and Escherichia coli DNA polymerases. Shibutani S, et al. **Biochemistry** 1997 Feb 18;36(7):1755–65

Interview with Sydney Brenner. the world of genome projects [interview] Brenner S. **Bioessays** 1996 Dec; 18(12):1039–42

Is there an error correcting code in the base sequence in DNA? Liebovitch LS, et al. **Biophys J** 1996 Sep; 71(3):1539–44

The hypercube structure of the genetic code explains conservative and non–conservative aminoacid substitutions in vivo and in vitro. Jiménez–Montaño MA, et al. **Biosystems** 1996;39(2):117–25

The organisations of hereditary information. Paton R. **Biosystems** 1997;40(3):245–55

The genetic code and cyclic codes. Demongeot J, et al. **C R Acad Sci III** 1996 Jun;319(6):443–51

An analysis of the metabolic theory of the origin of the genetic code. Amirnovin R. **J Mol Evol** 1997 May; 44(5):473–6

Use of a deviant mitochondrial genetic code in yellow–green algae as a landmark for segregating members within the phylum. Ehara M, et al. **J Mol Evol** 1997 Aug;45(2):119–24

An evolutionary model of a complementary circular code. Arquès DG, et al. **J Theor Biol** 1997 Mar 21;185(2):241–53

A complementary circular code in the protein coding genes. Arquès DG, et al. **J Theor Biol** 1996 Sep 7;182(1):45–58

On the origin of the genetic code. Di Giulio M. **J Theor Biol** 1997 Aug 21;187(4):573–81

Genetic code synonym quotas and amino acid complexity: cutting the cost of proteins? Dufton MJ. **J Theor Biol** 1997 Jul 21;187(2):165–73

The emergence of genetic coding in physical systems. Nieselt–Struwe K, et al. **J Theor Biol** 1997 Jul 7;187(1):1–14

'Distorted' RNA helix recognition [letter] Schimmel P, et al. **Nature** 1996 Dec 5;384(6608):422

The beta–sheets of proteins, the biosynthetic relationships between amino acids, and the origin of the genetic code. Di Giulio M. **Orig Life Evol Biosph** 1996 Dec;26(6):589–609

Vestiges of early molecular processes leading to the genetic code. Ferreira R, et al. **Orig Life Evol Biosph** 1997 Aug; 27(4):397–403

Four primordial modes of tRNA–synthetase recognition, determined by the (G,C) operational code. Rodin SN, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5183–8

Physicochemical basis of the universal genetic codes—quantitative analysis. Lien EJ, et al. **Prog Drug Res** 1997;48:9–25 (31 ref.)

The origin of the genetic code [letter; comment] Di Giulio M. **Trends Biochem Sci** 1997 Feb;22(2):49–50 (23 ref.). Comment on: Trends Biochem Sci 1996 Jun;21(6):199–200.

[Nature of the optimum DNA code] Arzamastsev AA. **Biofizika** 1997 May–Jun;42(3):611–4 (Eng. Abstr.) **(Rus)**

[The topological structure of the genetic code] Karasev VA, et al. **Genetika** 1997 Jun;33(6):744–51 (Eng. Abstr.) **(Rus)**

[Genetic level of DNA sequences is determined by superposition of many codes] Trifonov EN. **Mol Biol (Mosk)** 1997 Jul–Aug;31(4):759–67 **(Rus)**

GENETICS

Widespread and ancient distribution of a noncanonical genetic code in diplomonads. Keeling PJ, et al. **Mol Biol Evol** 1997 Sep;14(9):895–901

The puzzling origin of the genetic code [see comments] Cedergren R, et al. **Trends Biochem Sci** 1996 Jun; 21(6):199–200. Comment in: Trends Biochem Sci 1997 Feb;22(2):49–50.

[The mutation units of loci coding for lactate dehydrogenase and their directed changes in the phylogenetic progression of vertebrate animals] Mezhzherin SV. **Izv Akad Nauk Ser Biol** 1997 Jan–Feb;(1):27–34 (Eng. Abstr.) **(Rus)**

[A comparative phylogenetic analysis of the coding portion of the genes for structural protein E1 in the Shi–Min' strain and in other strains of the classic hog cholera virus] Kyrylenko SD, et al. **Tsitol Genet** 1997 May–Jun; 31(3):54–60 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

How brain development is shaped by genetic and environmental factors. Pally R. **Int J Psychoanal** 1997 Jun; 78 (Pt 3):587–93 (21 ref.)

GENETIC COMPLEMENTATION TEST

Identification of genes mediating lipophosphoglycan biosynthesis by functional complementation of Leishmania donovani mutants. Beverley SM, et al. **Ann Trop Med Parasitol** 1995 Dec;89 Suppl 1:11–17 (33 ref.)

Genetic and functional complementation of the HSV1 UL27 gene and gB glycoprotein by simian alpha–herpesvirus homologs. Eberle R, et al. **Arch Virol** 1997;142(4):721–36

Metabolic correction of triose phosphate isomerase deficiency in vitro by complementation. Ationu A, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):528–31

Complementation analysis of testis tumor cells. Wang X, et al. **Cancer Genet Cytogenet** 1997 Oct 1;98(1):56–62

Impaired jun–NH2–terminal kinase activation by ultraviolet irradiation in fibroblasts of patients with Cockayne syndrome complementation group B. Dhar V, et al. **Cell Growth Differ** 1996 Jun;7(6):841–6

DNA repair functions in heterologous cells. Memisoglu A, et al. **Crit Rev Biochem Mol Biol** 1996 Dec;31(5–6):405–47 (253 ref.)

Isolation by genetic complementation of two differentially expressed genes for beta–isopropylmalate dehydrogenase from Aspergillus niger. Williams BA, et al. **Curr Genet** 1996 Sep;30(4):305–11

Nonmyristoylated MARCKS complements some but not all of the developmental defects associated with MARCKS deficiency in mice. Swierczynski SL, et al. **Dev Biol** 1996 Oct 10;179(1):135–47

A Francisella tularensis DNA clone complements Escherichia coli defective for the production of Era, an essential Ras–like GTP–binding protein. Zuber M, et al. **Gene** 1997 Apr 11;189(1):31–4

Direct complementation of Chlamydomonas mutants with amplified YAC DNA. Vashishtha M, et al. **Genomics** 1996 Sep 15;36(3):459–67

Engineered complementation in Escherichia coli aspartate transcarbamoylase. Heterotropic regulation by quaternary structure stabilization. Aucoin JM, et al. **J Biol Chem** 1996 Nov 22;271(47):29865–9

Subunit complementation of Escherichia coli adenylosuccinate synthetase. Kang C, et al. **J Biol Chem** 1996 Nov 22;271(47):29722–8

Complementation of reduced survival, hypotension, and renal abnormalities in angiotensinogen–deficient mice by the human renin and human angiotensinogen genes. Davisson RL, et al. **J Clin Invest** 1997 Mar 15;99(6):1258–64

Genetic complementation of the Saccharomyces cerevisiae leu2 gene by the Escherichia coli leuB gene. Storms RK, et al. **Mol Cell Biol** 1981 Sep;1(9):836–42

Complementation of a yeast top2ts mutation by a cDNA encoding rat DNA topoisomerase II alpha. Yoon JH, et al. **Mol Gen Genet** 1996 Nov 27;253(1–2):81–8

Long–term complementation of DNA repair deficient human primary fibroblasts by retroviral transduction of the XPD gene. Quilliet X, et al. **Mutat Res** 1996 Dec 2;364(3):161–9

GBSS T–DNA inserts giving partial complementation of the amylose–free potato mutant can also cause co–suppression of the endogenous GBSS gene in a wild–type background. Flipse E, et al. **Plant Mol Biol** 1996 Jul;31(4):731–9

Rescue of cardiac alpha–actin–deficient mice by enteric smooth muscle gamma–actin. Kumar A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4406–11

Gene expression and cell fusion analyzed by lacZ complementation in mammalian cells. Mohler WA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12423–7

A genetic system to identify DNA polymerase beta mutator mutants. Washington SL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1321–6

Complementation tagging of cooperating oncogenes in knockout mice. Allen JD, et al. **Semin Cancer Biol** 1996 Oct;7(5):299–306 (36 ref.)

METHODS

[The determination of the complementation groups for the cells of patients with xeroderma pigmentosum and the Cockayne syndrome found in Russia] Pleskach NM, et al. **Tsitologiia** 1996;38(8):863–8 (Eng. Abstr.) **(Rus)**

GENETIC COUNSELING

see related
GENETIC TECHNIQUES
PRECONCEPTION CARE

Genetic counseling in hereditary nonpolyposis colorectal cancer: an extended family with MSH2 mutation. Lynch HT, et al. **Am J Gastroenterol** 1996 Dec;91(12):2489–93

Empirical evidence that genetic counseling is directive: where do we go from here? [editorial; comment] Bernhardt BA. **Am J Hum Genet** 1997 Jan;60(1):17–20. Comment on: Am J Hum Genet 1997 Jan;60(1):40–7.

Germ–line and somatic mosaicism in the androgen insensitivity syndrome: implications for genetic counseling [letter] Boehmer AL, et al. **Am J Hum Genet** 1997 Apr; 60(4):1003–6

Nondirectiveness in genetic counseling: an empirical study [see comments] Michie S, et al. **Am J Hum Genet** 1997 Jan;60(1):40–7. Comment in: Am J Hum Genet 1997 Jan;60(1):17–20.

Questioning the need for anonymous genetic counseling and testing [letter] Uhlmann WR, et al. **Am J Hum Genet** 1996 Oct;59(4):968–70

Molecular detection of new mutations, resolution of ambiguous results and complex genetic counseling issues in Huntington disease. Alford RL, et al. **Am J Med Genet** 1996 Dec 18;66(3):281–6

Duchenne muscular dystrophy and idiopathic hyperCKemia in a family causing confusion in genetic counselling [letter; comment] Bushby K, et al. **Am J Med Genet** 1996 Dec 11;66(2):237–8. Comment on: Am J Med Genet 1995 Sep 11;58(3):209–12.

Counselling following diagnosis of a fetal abnormality: comparison of different clinical specialists in Mexico. Carnevale A, et al. **Am J Med Genet** 1997 Mar 3;69(1):23–8

Genetic counseling of isolated carriers of Duchenne muscular dystrophy. Hoffman EP, et al. **Am J Med Genet** 1996 Jun 28;63(4):573–80

Problem of offering unsolicited clinical genetic advice and diagnoses to nonmedical friends and strangers [letter] Hook EB. **Am J Med Genet** 1997 Feb 11;68(4):485–6

Utility of linked markers in genetic counseling: estimation of carrier risks in X–linked ocular albinism. Rebbeck TR, et al. **Am J Med Genet** 1997 May 2;70(1):58–66

Carolyn's feet. Resta RG. **Am J Med Genet** 1997 Oct 3; 72(1):1–2

Genetic drift. The awful truth. Robin NH. **Am J Med Genet** 1997 Sep 5;71(4):375–7

Acceptance of home and clinic–based cystic fibrosis carrier education and testing by first, second, and third degree relatives of cystic fibrosis patients. Sorenson JR, et al. **Am J Med Genet** 1997 May 16;70(2):121–9

Expanding the role of the genetic counselor. Staley–Gane L, et al. **Am J Med Genet** 1996 Aug 9;64(2):382–7

Notification of a family history of breast cancer: issues of privacy and confidentiality. Winter PR, et al. **Am J Med Genet** 1996 Dec 2;66(1):1–6

Genetic counselling in a prenatal marker chromosome identified as an i (18p) by in situ hybridization. Darnaude MT, et al. **Ann Genet** 1996;39(2):61–3

A pilot experience in genetic counseling for Alzheimer's disease. Findings relevant to the potential use of APOE genotyping in cognitively impaired individuals. Karlinsky H, et al. **Ann N Y Acad Sci** 1996 Dec 16;802:120–7

Women's need for information before attending genetic counselling for familial breast or ovarian cancer: a questionnaire, interview, and observational study. Hallowell N, et al. **BMJ** 1997 Jan 25;314(7076):281–3

A descriptive study of BRCA1 testing and reactions to

disclosure of test results [see comments] Lynch HT, et al. **Cancer** 1997 Jun 1;79(11):2219–28. Comment in: Cancer 1997 Jun 1;79(11):2063–5; discussion 2066.

Third international workshop on collaborative interdisciplinary studies of p53 and other predisposing genes in Li–Fraumeni syndrome. Eng C, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):379–83

Control of beta–thalassaemia by carrier screening, genetic counselling and prenatal diagnosis: the Sardinian experience. Cao A, et al. **Ciba Found Symp** 1996; 197:137–51; discussion 151–5 (32 ref.)

Risk estimates for balanced reciprocal translocation carriers––prenatal diagnosis experience. Barišić I, et al. **Clin Genet** 1996 Mar;49(3):145–51

Outcomes and process in genetic counselling. Clarke A, et al. **Clin Genet** 1996 Dec;50(6):462–9 (63 ref.)

The genetics of ovarian cancer: an assessment of current screening protocols and recommendations for counseling families at risk. Bombard AT, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):860–72 (47 ref.)

Preconception genetic counseling. Hogge JS, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):751–62 (23 ref.)

Breast cancer risk analysis and counseling. Mulvihill JJ, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):851–9 (21 ref.)

Breast cancer genetics: family history, heterogeneity, molecular genetic diagnosis, and genetic counselling. Lynch HT, et al. **Curr Probl Cancer** 1996 Nov–Dec; 20(6):329–65 (67 ref.)

Audit of maternal serum screening: strategies to augment counselling in response to women's views. Burn J, et al. **Eur J Hum Genet** 1996;4(2):108–12

Diagnostic delay in neurofibromatosis type 1. Cnossen MH, et al. **Eur J Pediatr** 1997 Jun;156(6):482–7

Efficiency of prenatal counselling for sickle cell disease in Guadeloupe. Alexandre L, et al. **Genet Couns** 1997; 8(1):25–32

Genetic dilemmas and the child's right to an open future. Davis DS. **Hastings Cent Rep** 1997 Mar–Apr;27(2):7–15 (30 ref.)

Sex chromosomal anomalies in pregnancies conceived through intracytoplasmic sperm injection: a case for genetic counselling. Meschede D, et al. **Hum Reprod** 1997 Jun; 12(6):1125–7 (19 ref.)

ACOG committee opinion. Genetic evaluation of stillbirths and neonatal deaths. Number 178, November 1996. Committee on Genetics. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1997 Mar; 56(3):287–9

Genetic counseling and prenatal diagnosis: a multicultural perspective. Puñales–Morejon D. **J Am Med Womens Assoc** 1997 Winter;52(1):30–2

Genetic counselling and prenatal diagnosis in disorders of the mitochondrial energy metabolism. Ruitenbeek W, et al. **J Inherit Metab Dis** 1996;19(4):581–7 (33 ref.)

PCR–RFLP analysis as an aid to genetic counseling of families of Japanese patients with group A xeroderma pigmentosum. Maeda T, et al. **J Invest Dermatol** 1997 Sep; 109(3):306–9

Selection for presymptomatic testing for Huntington's disease: who decides? [letter] [see comments] Binedell J, et al. **J Med Genet** 1996 Feb;33(2):173–4. Comment in: J Med Genet 1996 Dec;33(12):1051–2.

Selection for presymptomatic testing for Huntington's disease: who decides? A reply from the Victorian Clinical Genetics Service, Murdoch Institute, Melbourne, Australia [letter; comment] Mansie S, et al. **J Med Genet** 1996 Dec; 33(12):1051–2. Comment on: J Med Genet 1996 Feb;33(2):173–4.

De novo deletions in spinal muscular atrophy: implications for genetic counselling [letter] Raclin V, et al. **J Med Genet** 1997 Jan;34(1):86–7

Cancer families: what risks are they given and do the risks affect management? Rosser EM, et al. **J Med Genet** 1996 Dec;33(12):977–80

The importance of genetic counseling before amniocentesis. Cohn GM, et al. **J Perinatol** 1996 Sep–Oct;16(5):352–7; quiz 358–9

Genetic testing of families with hereditary diseases [letter; comment] Thurmon TF. **JAMA** 1996 Oct 9;276(14):1139; discussion 1140. Comment on: JAMA 1996 Jun 26;275(24):1885–92.

Mutation detection and genetic counseling in retinoblastoma using heteroduplex analysis. Zhang Q, et al. **Jpn J Ophthalmol** 1995;39(4):432–7

Genetic counselling before intracytoplasmic sperm injection [letter] In't Veld PA, et al. **Lancet** 1997 Aug 16; 350(9076):490

Do we know the answers to genetic testing? Cornell DH. **N J Med** 1997 Feb;94(2):31–5

Counselling comes of age. Gershon D. **Nature** 1996 Oct 24; 383(6602):741–2

The usefulness of a prenatal genetic questionnaire in genetic risk assessment. Cohn GM, et al. **Obstet Gynecol** 1996 Nov; 88(5):806–10

Genetic counseling in perinatal medicine. Milunsky JM, et al. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):1–17 (63 ref.)

Commentary: patient counseling and education. Mahon SM. **Oncol Nurs Forum** 1997 May;24(4):635–6

Genetic counseling for hereditary cancer. Lynch HT, et al. **Oncology (Huntingt)** 1996 Jan;10(1):27–34 (38 ref.)

Genetic counseling in cancer: a status report––part 2 [editorial] Lynch HT. **Oncology (Huntingt)** 1996 Feb; 10(2):131–4

Genetic counseling in hereditary nonpolyposis colorectal cancer. Menko FH, et al. **Oncology (Huntingt)** 1996 Jan; 10(1):71–6; discussion 81–2

Role of the genetic counselor in familial cancer. Peters JA, et al. **Oncology (Huntingt)** 1996 Feb;10(2):159–66, 175; discussion 176–6, 178, (33 ref.)

Genetic counseling in congenital heart disease. Ardinger RH Jr. **Pediatr Ann** 1997 Feb;26(2):99–104 (12 ref.)

Medical genetics for the practitioner. Toomey KE. **Pediatr Rev** 1996 May;17(5):163–74 (10 ref.)

47,XXY (Klinefelter syndrome) and 47,XYY: estimated rates of and indication for postnatal diagnosis with implications for prenatal counselling. Abramsky L, et al. **Prenat Diagn** 1997 Apr;17(4):363–8

Genetic counselling and prenatal diagnosis of osteogenesis imperfecta caused by paternal mosaicism. Lund AM, et al. **Prenat Diagn** 1996 Nov;16(11):1032–8

Presymptomatic and predisposition genetic testing: ethical and social considerations. Bove CM, et al. **Semin Oncol Nurs** 1997 May;13(2):135–40 (30 ref.)

The oncology nurse's role in cancer risk assessment and counseling. MacDonald DJ. **Semin Oncol Nurs** 1997 May; 13(2):123–8 (21 ref.)

[Preimplantation genetic diagnosis. Technical and ethical aspects and international experiences] Laursen SB, et al. **Ugeskr Laeger** 1996 Oct 28;158(44):6248–52 (27 ref.) (Eng. Abstr.) **(Dan)**

[Referral to a clinical–genetic center for genetic counseling in mental disorders] Vonk R, et al. **Ned Tijdschr Geneeskd** 1997 Mar 29;141(13):630–4 (Eng. Abstr.) **(Dut)**

[The importance of counseling in the context of prenatal diagnosis] Wolff G. **Schweiz Med Wochenschr** 1997 Jan 18;127(3):60–8 (Eng. Abstr.) **(Ger)**

[The importance of molecular genetic diagnosis of Martin–Bell disease in genetic counseling] Horváth M, et al. **Orv Hetil** 1997 Mar 2;138(9):541–5 (Eng. Abstr.) **(Hun)**

[Euphenic prevention of obesity at the Optimal Family Planning Service in Hungary] Miklós J, et al. **Orv Hetil** 1996 Nov 10;137(45):2517–22 (39 ref.) (Eng. Abstr.) **(Hun)**

[Bioethics on DNA diagnosis] Fujiki N. **Rinsho Shinkeigaku** 1996 Dec;36(12):1310–1 (Eng. Abstr.) **(Jpn)**

[Genetic information and counseling in psychiatry?] Kringlen E. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2347–50 (23 ref.) **(Nor)**

[Genetic counseling in profound deafness] Clarós P, et al. **Acta Otorrinolaringol Esp** 1996 May–Jun;47(3):169–74 (18 ref.) (Eng. Abstr.) **(Spa)**

[Preimplantation genetic diagnosis. An alternative to traditional prenatal diagnosis] Iwarsson E, et al. **Lakartidningen** 1997 Aug 27;94(35):2919–22 (15 ref.) **(Swe)**

[Ethical problems when genetic techniques become clinical routine] Wahlström J, et al. **Lakartidningen** 1997 Sep 3; 94(36):3044–50 **(Swe)**

LEGISLATION & JURISPRUDENCE

Hereditary cancer litigation: a status report. Severin MJ. **Oncology (Huntingt)** 1996 Feb;10(2):211–4; discussion 217 (15 ref.)

METHODS

The genetics of ovarian cancer: concepts in testing and counseling. Hartenbach EM, et al. **Curr Opin Obstet Gynecol** 1996 Oct;8(5):339–42 (16 ref.)

Antenatal genetic counselling: implications for population screening. Stock A, et al. **Curr Opin Obstet Gynecol** 1997 Apr;9(2):109–12 (13 ref.)

Nomograms to help inform women considering Down's syndrome screening. Cuckle HS, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Nov;69(2):69–72

Genetic counseling––a new opportunity for optometry [letter] Rapp J. **J Am Optom Assoc** 1996 Sep;67(9):520

Genetic testing and counseling in familial adenomatous polyposis. Petersen GM. **Oncology (Huntingt)** 1996 Jan; 10(1):89–94; discussion 97–8 (25 ref.)

ORGANIZATION & ADMINISTRATION

Pre–marriage prevention of thalassaemia: report of a 100,000 case experience in Isfahan. Ghanei M, et al. **Public Health** 1997 May;111(3):153–6

Genetic counseling and women. Fine BA. **Womens Health Issues** 1997 Jul–Aug;7(4):220–4 (15 ref.)

PSYCHOLOGY

Genetic counseling is directive? Look again [letter] Kessler S. **Am J Hum Genet** 1997 Aug;61(2):466–7

Psychological and social impact of carrier screening for cystic fibrosis among pregnant woman––a pilot study. Clausen H, et al. **Clin Genet** 1996 Apr;49(4):200–5

China's genetic services providers' attitudes towards several ethical issues: a cross–cultural survey. Mao X, et al. **Clin Genet** 1997 Aug;52(2):100–9

Communicating about chromosomes: patients, providers, and cultural assumptions. Rapp R. **J Am Med Womens Assoc** 1997 Winter;52(1):28–9, 32

Is there a "women's ethic" in genetics: a 37–nation survey of providers. Wertz DC. **J Am Med Womens Assoc** 1997 Winter;52(1):33–8

Genetic counselling: the psychological impact of meeting patients' expectations. Michie S, et al. **J Med Genet** 1997 Mar;34(3):237–41

Psychosocial consequences of DNA analysis for MEN type 2. Grosfeld FJ, et al. **Oncology (Huntingt)** 1996 Feb; 10(2):141–6; discussion 146, 152, 157

Emotional and behavioral responses to genetic testing for susceptibility to cancer. Lerman C, et al. **Oncology (Huntingt)** 1996 Feb;10(2):191–5, 9; discussion 200–2 (61 ref.)

STANDARDS

Women worried about their familial breast cancer risk––a study on genetic advice in general practice. de Bock GH, et al. **Fam Pract** 1997 Feb;14(1):40–3

STATISTICS & NUMERICAL DATA

Proband and parent assistance in identifying relatives for cystic fibrosis carrier testing. Sorenson JR, et al. **Am J Med Genet** 1996 Jun 14;63(3):419–25

TRENDS

Society and the not–so–new genetics: what are we afraid of? Some future predictions from a social scientist. Wertz DC. **J Contemp Health Law Policy** 1997 Spring; 13(2):299–345 (130 ref.)

UTILIZATION

Use of record linkage between a statewide genetics service and a Birth Defects/Congenital Malformations Register to determine use of genetic counselling services. Halliday J, et al. **Am J Med Genet** 1997 Oct 3;72(1):3–10

GENETIC DIVERSITY see **VARIATION (GENETICS)**

GENETIC DRIFT see **GENE FREQUENCY**

GENETIC ENGINEERING

see related
ANIMALS, TRANSGENIC
DNA, RECOMBINANT
MICE, KNOCKOUT
MICE, TRANSGENIC
PLANTS, TRANSGENIC
PROTEIN ENGINEERING

Prospects for the bioengineering of isoprenoid biosynthesis. McCaskill D, et al. **Adv Biochem Eng Biotechnol** 1997; 55:107–46 (225 ref.)

Engineering herpes simplex virus vectors for human gene therapy. Glorioso JC, et al. **Adv Pharmacol** 1997;40:103–36 (195 ref.)

Physiological assessment of complex cardiac phenotypes in genetically engineered mice. Christensen G, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2513–24 (106 ref.)

Metabolic engineering of sugar catabolism in lactic acid bacteria. de Vos WM. **Antonie Van Leeuwenhoek** 1996 Oct; 70(2–4):223–42 (132 ref.)

Barriers to application of genetically modified lactic acid bacteria. Verrips CT, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):299–316 (44 ref.)

An ethical examination of cloning. Husted GL, et al. **AORN J** 1997 Jun;65(6):1112–3

Genetic manipulation of Bacillus methanolicus, a gram–positive, thermotolerant methylotroph. Cue D, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1406–20

Construction of a starch–utilizing yeast by cell surface engineering. Murai T, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1362–6

Microencapsulation and transplantation of genetically engineered cells: a new approach to somatic gene therapy. Basic D, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May; 24(3):219–55

Microencapsulated genetically engineered E. coli DH5 cells for plasma urea and ammonia removal based on: 1. Column bioreactor and 2. Oral administration in uremic rats. Prakash S, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May; 24(3):201–18

Cloning humans? Johnson M. **Bioessays** 1997 Aug; 19(8):737–9

Writing and reading about Dolly. Keller EF, et al. **Bioessays** 1997 Aug;19(8):740–2

From the natural evolution to the genetic manipulation of the host–range of retroviruses. Dornburg R. **Biol Chem** 1997 Jun;378(6):457–68 (101 ref.)

Rhesus monkeys produced by nuclear transfer. Meng L, et al. **Biol Reprod** 1997 Aug;57(2):454–9

Production of cloned lambs from an established embryonic cell line: a comparison between in vivo– and in vitro–matured cytoplasts. Wells DN, et al. **Biol Reprod** 1997 Aug;57(2):385–93

Genetically engineered plants for quality improvement. Brar DS, et al. **Biotechnol Genet Eng Rev** 1996;13:167–79 (41 ref.)

Cloning for gold. Read AP. **Br J Sports Med** 1997 Sep; 31(3):174
Genetic engineering and environmental ethics. Dobson A. **Camb Q Healthc Ethics** 1997 Spring;6(2):205–21 (69 ref.)
Evaluation of genetically engineered herpes simplex viruses as oncolytic agents for human malignant brain tumors. Andreansky S, et al. **Cancer Res** 1997 Apr 15;57(8):1502–9
Preventive mitochondrial replacement. Orgel LE. **Chem Biol** 1997 Mar;4(3):167–8
Rational design of allosteric ribozymes. Tang J, et al. **Chem Biol** 1997 Jun;4(6):453–9
Forbidden knowledge and the cloning of a lamb [editorial] Weinberg SL. **Clin Cardiol** 1997 Aug;20(8):673–4
Assessment of the allergenic potential of foods derived from genetically engineered crop plants. Metcalfe DD, et al. **Crit Rev Food Sci Nutr** 1996;36 Suppl:S165–86 (118 ref.)
Sheep fever [news] Dixon B. **Curr Biol** 1997 May 1;7(5):R272
Therapeutic proteins and enzymes from genetically engineered yeasts. Wiseman A. **Endeavour** 1996;20(3):130–2 (15 ref.)
LMOs: treasure chest or Pandora's box? Baram M. **Environ Health Perspect** 1996 Jul;104(7):704–7
Cloning of sheep: a possible technique for reprogramming ageing mechanisms. Gilbert C. **Eur J Cancer Prev** 1997 Jun;6(3):303–4
Advances in adenoviral vectors: from genetic engineering to their biology. Yeh P, et al. **FASEB J** 1997 Jul; 11(8):615–23 (50 ref.)
Genetically engineered mice as animal models for NIDDM. Joshi RL, et al. **FEBS Lett** 1997 Jan 20;401(2–3):99–103 (74 ref.)
Engineering the Drosophila genome: chromosome rearrangements by design. Golic KG, et al. **Genetics** 1996 Dec;144(4):1693–711
Parenting in an era of genetics. McGee G. **Hastings Cent Rep** 1997 Mar–Apr;27(2):16–22 (15 ref.)
Food biotechnology's challenge to cultural integrity and individual consent. Thompson PB. **Hastings Cent Rep** 1997 Jul–Aug;27(4):34–8 (5 ref.)
Washington politics and genetic engineering research: when worlds collide. Carmen IH. **Hum Gene Ther** 1996 Jan; 7(1):97–108
Sustainability of keratinocyte gene transfer and cell survival in vivo. Choate KA, et al. **Hum Gene Ther** 1997 May 20; 8(8):895–901
Clinical assessment of human gonadotrophins produced by recombinant DNA technology. Loumaye E, et al. **Hum Reprod** 1996 Sep;11 Suppl 1:95–107; discussion 117–9 (53 ref.)
Genetically modified starter and protective cultures. Geisen R, et al. **Int J Food Microbiol** 1996 Jul;30(3):315–24
FIGO News. Report of the FIGO Committee for the Study of Ethical Aspects of Human Reproduction. International Federation of Gynecologists and Obstetrics [news] Schenker JG. **Int J Gynaecol Obstet** 1997 Jun;57(3):333–7
Genetic engineering: moral aspects and control of practice. Eisenberg VH, et al. **J Assist Reprod Genet** 1997 Jul; 14(6):297–316 (98 ref.)
Extracellular melibiose and fructose are intermediates in raffinose catabolism during fermentation to ethanol by engineered enteric bacteria. Moniruzzaman M, et al. **J Bacteriol** 1997 Mar;179(6):1880–6
Genes and physiology: molecular physiology in genetically engineered animals. Chien KR. **J Clin Invest** 1996;98(11 Suppl):S19–26 (66 ref.)
Molecular medicine in genetically engineered animals: series introduction [editorial] Chien KR. **J Clin Invest** 1996;98(11 Suppl):S1
The zebrafish: heritable disorders in transparent embryos. Driever W, et al. **J Clin Invest** 1996;98(11 Suppl):S41–6 (67 ref.)
Gene modification via "plug and socket" gene targeting. Lewis J, et al. **J Clin Invest** 1996;98(11 Suppl):S3–5 (7 ref.)
Recent advances in gene mutagenesis by site-directed recombination. Marth JD. **J Clin Invest** 1996;98(11 Suppl):S47–50 (29 ref.)
Transgenesis in the rat and larger mammals. Mullins LJ, et al. **J Clin Invest** 1996;98(11 Suppl):S37–40 (33 ref.)
Targeted mutagenesis: analysis of phenotype without germ line transmission. Nagy A, et al. **J Clin Invest** 1996;98(11 Suppl):S31–5 (38 ref.)
Conditional gene targeting. Rajewsky K, et al. **J Clin Invest** 1996;98(11 Suppl):S51–3 (30 ref.)
Biological insights through genomics: mouse to man. Rubin EM, et al. **J Clin Invest** 1996;98(11 Suppl):S7–11 (82 ref.)
In vitro differentiation of murine embryonic stem cells. New approaches to old problems. Weiss MJ, et al. **J Clin Invest** 1996;98(11 Suppl):S13–7
Animal models of human disease for gene therapy. Wilson JM. **J Clin Invest** 1996;98(11 Suppl):S27–9 (31 ref.)
Role of genetic engineering in medicine [letter] Gulati S. **J Indian Med Assoc** 1995 Oct;93(10):398
Mustard prodrugs for activation by Escherichia coli nitroreductase in gene-directed enzyme prodrug therapy. Friedlos F, et al. **J Med Chem** 1997 Apr 11;40(8):1270–5
Human cloning: a case of no harm done? Roberts MA. **J Med Philos** 1996 Oct;21(5):537–54
Complementation of a primer binding site-impaired murine leukemia virus-derived retroviral vector by a genetically engineered tRNA-like primer. Lund AH, et al. **J Virol** 1997 Feb;71(2):1191–5
Scientists flock to hear cloner Wilmut at the NIH [news] Marwick C. **JAMA** 1997 Apr 9;277(14):1102–3
Threatened bans on human cloning research could hamper advances [news] Stephenson J. **JAMA** 1997 Apr 2; 277(13):1023, 1025–6
Practical development of genetically engineered animals as human disease models. Nomura T. **Lab Anim Sci** 1997 Apr; 47(2):113–7 (24 ref.)
One lamb, much fuss [editorial] [see comments] **Lancet** 1997 Mar 8;349(9053):661. Comment in: Lancet 1997 May 10;349(9062):1401.
First Dolly the sheep, now multiple monkeys [news] Bradbury J. **Lancet** 1997 Mar 8;349(9053):705
Artificial cells for bioencapsulation of cells and genetically engineered E. coli. For cell therapy, gene therapy, and removal of urea and ammonia. Chang TM, et al. **Methods Mol Biol** 1997;63:343–58
Overview of vector design for mammalian gene expression. Kaufman RJ. **Methods Mol Biol** 1997;62:287–300
Bacterial production of transdihydroxycyclohexadiene carboxylates by metabolic pathway engineering. Müller R, et al. **Microbiology** 1996 Apr;142 (Pt 4):1005–12
IBC sixth annual meeting on antibody engineering Dec 4–6 1995, La Jolla, CA. Metz C. **Mol Med** 1996 Mar;2(2):169–70
Cloned sheep rekindles ethical debate [news] O'Brien C. **Mol Med Today** 1997 Apr;3(4):140
Our fate lies in our genes [editorial] Slobodien HD. **N J Med** 1997 Feb;94(2):19–20
Should you hire an epistemologist?[letter] Bains W. **Nat Biotechnol** 1997 May;15(5):396
Clearing the way for ribozymes [news] Burke JM. **Nat Biotechnol** 1997 May;15(5):414–5
Bioethicists ruminate separately on clones, gene 'enhancements' [news] Fox JL. **Nat Biotechnol** 1997 May; 15(5):406–7
Upgrading German genomics [news] Fürst I. **Nat Biotechnol** 1997 Aug;15(8):707–8
Genetically enhanced food for thought. Golub ES. **Nat Biotechnol** 1997 Feb;15(2):112
Novartis' new labeling policy creates confusion. Hoyle R. **Nat Biotechnol** 1997 May;15(5):395
The real implications of Dolly. MacQuitty JJ. **Nat Biotechnol** 1997 Apr;15(4):294
Cloning our way to "the next level". Newman SA. **Nat Biotechnol** 1997 Jun;15(6):488
Genetically engineered plants producing opines alter their biological environment. Oger P, et al. **Nat Biotechnol** 1997 Apr;15(4):369–72
Engineering of the major house dust mite allergen Der f 2 for allergen-specific immunotherapy [see comments] Takai T, et al. **Nat Biotechnol** 1997 Aug;15(8):754–8. Comment in: Nat Biotechnol 1997 Aug;15(8):718–9.
Cloning questions [editorial] **Nat Genet** 1997 Aug;16(4):317–8
Clone encounters [editorial] **Nat Genet** 1997 Apr;15(4):323–4
Cloning research a possibility [news] Cimons M. **Nat Med** 1997 Jul;3(7):710
Distrust in genetically altered foods [editorial] [see comments] **Nature** 1996 Oct 17;383(6601):559. Comment in: Nature 1996 Nov 28;384(6607):304. Comment in: Nature 1997 Jan 23;385(6614):290.
After Dolly, meet Gene, the cloned calf [news] **Nature** 1997 Aug 14;388(6643):611
Double trouble [editorial; comment] **Nature** 1997 Aug 7; 388(6642):501. Comment on: Nature 1997 Aug 7;388(6642):508.
US attacks EU gene-food labelling move [news] **Nature** 1997 Jun 26;387(6636):833
German resistance to genetic engineering diminishes [news] Abbott A. **Nature** 1997 Jan 2;385(6611):8–9
Austrian gene food petition puts pressure on European partners [news] Abbott A. **Nature** 1997 Apr 24; 386(6627):745
Cloning humans [letter; comment] Baker MR. **Nature** 1997 May 8;387(6629):119. Comment on: Nature 1997 Apr 3;386(6624):431.
Pros and cons of foreign genes in crops [letter; comment] Bengtsson BO. **Nature** 1997 Jan 23;385(6614):290. Comment on: Nature 1996 Oct 17;383(6601):559. Comment on: Nature 1996 Nov 28;384(6607):304.
European ethics advisers back cloning ban [news] Butler D. **Nature** 1997 Jun 5;387(6633):536
Rüttgers and Chirac seek cloning ban [news] Butler D, et al. **Nature** 1997 May 8;387(6629):111
Europe agrees a compromise on food labels [news] [see comments] Butler D. **Nature** 1996 Dec 12;384(6609):502–3 . Comment in: Nature 1997 Jan 23;385(6614):290.
Learning from history [letter; comment] Cantley M. **Nature** 1997 Apr 17;386(6626):642. Comment on: Nature 1997 Mar 6;386(6620):1.
Advantage of knowing nature's secrets [letter; comment] [see comments] Fainzilber M. **Nature** 1997 Apr 3;386(6624):431 . Comment on: Nature 1997 Feb 27;385(6619):757. Comment in: Nature 1997 May 8;387(6629):119.
Advantage of knowing nature's secrets [letter; comment] [see comments] Galibert F, et al. **Nature** 1997 Apr 3; 386(6624):431. Comment on: Nature 1997 Feb 27;385(6619):810–3. Comment in: Nature 1997 May 8;387(6629):119.
Cloning and bioethical thinking [letter] Harris J. **Nature** 1997 Oct 2;389(6650):433
Is cloning an attack on human dignity? [letter; comment] [see comments] Harris J. **Nature** 1997 Jun 19;387(6635):754 . Comment on: Nature 1997 Feb 27;385(6619):810–3. Comment on: Nature 1997 Mar 13;386(6621):119. Comment in: Nature 1997 Jul 3;388(6637):15. Comment in: Nature 1997 Jul 24;388(6640):320.
Public perception [letter] Hill R, et al. **Nature** 1997 May 22; 387(6631):340
Clone mammals... clone man? [comment] [see comments] Kahn A. **Nature** 1997 Mar 13;386(6621):119. Comment on: Nature 1997 Feb 27;385(6619):810–3. Comment in: Nature 1997 Jun 19;387(6635):754.
Cloning, dignity and ethical revisionism [letter; comment] [see comments] Kahn A. **Nature** 1997 Jul 24;388(6640):320 . Comment on: Nature 1997 May 22;387(6631):321. Comment on: Nature 1997 May 22;387(6631):324. Comment on: Nature 1997 Jun 19;387(6635):754. Comment in: Nature 1997 Aug 7;388(6642):511.
Don't leave dignity out of the cloning debate [letter; comment] Labib K. **Nature** 1997 Jul 3;388(6637):15. Comment on: Nature 1997 Jun 19;387(6635):754.
Cloning humans [letter; comment] Nestle N. **Nature** 1997 May 8;387(6629):119. Comment on: Nature 1997 Apr 3;386(6624):431.
Pros and cons of foreign genes in crops [letter; comment] [see comments] Ort DR. **Nature** 1997 Jan 23;385(6614):290 . Comment on: Nature 1996 Dec 12;384(6609):502–3. Comment in: Nature 1997 Mar 13;386(6621):111.
Cloning, dignity and ethical reasoning [letter; comment] Shapiro D. **Nature** 1997 Aug 7;388(6642):511. Comment on: Nature 1997 Jul 24;388(6640):320.
Advantage of knowing nature's secrets [letter; comment] Shaw G, et al. **Nature** 1997 Apr 3;386(6624):431. Comment on: Nature 1997 Feb 27;385(6619):753.
Advantage of knowing nature's secrets [letter] Strickland S. **Nature** 1997 Apr 3;386(6624):431
Advantage of knowing nature's secrets [letter; comment] Taggart MJ. **Nature** 1997 Apr 3;386(6624):431. Comment on: Nature 1997 Feb 27;385(6619):810–3.
Unesco text will target gene techniques [news] [see comments] Wadman M. **Nature** 1997 Aug 7;388(6642):508 . Comment in: Nature 1997 Aug 7;388(6642):501.
Genetic resistance spreads to consumers [news] Wadman M. **Nature** 1996 Oct 17;383(6601):564
Cloning for research 'should be allowed' [news] Wadman M. **Nature** 1997 Jul 3;388(6637):6
Viable offspring derived from fetal and adult mammalian cells [see comments] [published erratum appears in Nature 1997 Mar 13;386(6621):200] Wilmut I, et al. **Nature** 1997 Feb 27;385(6619):810–3. Comment in: Nature 1997 Feb 27;385(6619):753. Comment in: Nature 1997 Mar 6;385(6620):12. Comment in: Nature 1997 Mar 13;386(6621):119. Comment in: Nature 1997 Apr 3;386(6624):431. Comment in: Nature 1997 Jun 19;387(6635):754.
DNA data could spawn 'genetic underclass,' says VA physician. **Oncology (Huntingt)** 1997 Mar;11(3):366
The year 1995–1996 in review: genetically re-engineering clinical nephrology. Trachtman H. **Pediatr Nephrol** 1997 Jun;11(3):377–81 (27 ref.)
The application of genetically engineered herpes simplex viruses to the treatment of experimental brain tumors. Andreansky SS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11313–8 (53 ref.)
Alphavirus-based expression vectors: strategies and applications. Frolov I, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11371–7 (72 ref.)
Genetically engineered poxviruses for recombinant gene expression, vaccination, and safety. Moss B. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11341–8 (180 ref.)
Negative-strand RNA viruses: genetic engineering and applications. Palese P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11354–8 (46 ref.)
Genetic engineering of viruses and of virus vectors: a preface. Palese P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11287
Spectroscopic properties of an engineered maltose binding protein. Gilardi G, et al. **Protein Eng** 1997 May; 10(5):479–86
Genetic approaches to cancer immunotherapy. Blankenstein T, et al. **Rev Physiol Biochem Pharmacol** 1996;129:1–49 (168 ref.)
The start of something big? Dolly has become a new icon for science [news] Beardsley T. **Sci Am** 1997 May; 276(5):15–6
Can cloning help save beleaguered species? [news] Cohen J. **Science** 1997 May 30;276(5317):1329–30
Mammalian genome debate heats up [news] Marshall E. **Science** 1997 Mar 21;275(5307):1733
Mouse engineering [letter] O'Gorman S, et al. **Science** 1997 Aug 22;277(5329):1025
Merck gives researchers knockout deal [news] Pennisi E. **Science** 1997 Apr 25;276(5312):527
Will Dolly send in the clones? [news] Pennisi E, et al. **Science** 1997 Mar 7;275(5305):1415–6
Transgenic lambs from cloning lab [news] Pennisi E. **Science** 1997 Aug 1;277(5326):631
Ethical and policy issues of human cloning. Shapiro HT. **Science** 1997 Jul 11;277(5323):195–6
From science fiction to ethics quandary [news] Vogel G. **Science** 1997 Sep 19;277(5333):1753–4
Norms for patents concerning human and other life forms. Guenin LM. **Theor Med** 1996 Sep;17(3):279–314 (53 ref.)
Competition in a spatially heterogeneous environment:

modelling the risk of spread of a genetically engineered population. Cruywagen GC, et al. **Theor Popul Biol** 1996 Feb;49(1):1–38

Genetic engineering of animal RNA viruses. Conzelmann KK, et al. **Trends Microbiol** 1996 Oct;4(10):386–93 (73 ref.)

Cloning: realising the benefits while minimising the risks [news] **Vet Rec** 1997 Mar 29;140(13):323–4

Is there any possibility of detecting the use of genetic engineering in processed foods? Greiner R, et al. **Z Ernahrungswiss** 1997 Jun;36(2):155–60

[Cloning of sheep—and humans too? (editorial)] Hjorth JP. **Ugeskr Laeger** 1997 Jul 28;159(31):4741 **(Dan)**

[Hello Dolly, ewe're welcome (editorial)] Jeanteur P. **Bull Cancer** 1997 Apr;84(4):341–2 **(Fre)**

[Dolly or the best in the world—a prelude to human cloning?] Dubois M, et al. **Rev Med Liege** 1997 Mar;52(3):174–7 **(Fre)**

[Transplantation of genetically constructed clonal liver cell lines in a model of chronic liver failure] Schumacher IK, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:303–7 (Eng. Abstr.) **(Ger)**

[The use of biotechnological recombinant-mice in biological safety research] Inoue T. **Eisei Shikenjo Hokoku** 1996; (114):1–12 (97 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical application of gene technology for diagnosis and treatment of leukemia] Hashino S, et al. **Rinsho Byori** 1997 Jan;45(1):58–65 (Eng. Abstr.) **(Jpn)**

[Reverse genetics of negative-strand RNA viruses] Enami M. **Uirusu** 1995 Dec;45(2):145–57 (56 ref.) **(Jpn)**

"Contamination" with genes?] Naess K. **Tidsskr Nor Laegeforen** 1997 Jan 10;117(1):84 **(Nor)**

[Cloning of animals and humans] Prydz H. **Tidsskr Nor Laegeforen** 1997 May 10;117(12):1735 **(Nor)**

[Genetic technology, ecology and health] Traavik T. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2606 **(Nor)**

[Gene-directed biologically active substances (antisense oligonucleotides and their derivatives)] Knorre DG. **Bioorg Khim** 1997 Jan;23(1):3–17 (104 ref.) (Eng. Abstr.) **(Rus)**

[Genetic improvement of legumes] Viera Díaz J. **Arch Latinoam Nutr** 1996 Dec;44(4 Suppl 1):41S–43S (Eng. Abstr.) **(Spa)**

[From the right to intimacy, to the awareness of genetic information] Muñoz-de Alba MM. **Gac Med Mex** 1996 Mar-Apr;132(2):231–8 **(Spa)**

[Nephrology and gene therapy: basic science for the clinician (editorial)] Bosch RJ. **Medicina (B Aires)** 1996;56(3):313–6 **(Spa)**

[Ethical implications of genetic manipulation of life] Santos y Vargas L. **P R Health Sci J** 1996 Dec;15(4):303–7 **(Spa)**

[Manipulation of genes causing diseases] Monckeberg F. **Rev Med Chil** 1996 Mar;124(3):371–6 (28 ref.) (Eng. Abstr.) **(Spa)**

[To clone or not to clone...] Andersson L, et al. **Lakartidningen** 1997 May 28;94(22):2071–4 (7 ref.) **(Swe)**

[Does genetically altered food cause allergy and poisoning? High safety requirements could eliminate health hazards] Wilhelmson B. **Lakartidningen** 1997 Feb 19;94(8):612–7 **(Swe)**

[To clone or not to clone] Palo J. **Nord Med** 1997 May; 112(5):178 **(Swe)**

LEGISLATION & JURISPRUDENCE

Designer babies: are test tubes and microbes replacing romance? relevant legal issues and DNA. Miller K, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):305–7

Ensuring the safety of genotech drugs through implied warranty theory. Serra WM. **Am J Law Med** 1997; 23(2–3):363–81

European parliament wants world ban on human cloning [news] Watson R. **BMJ** 1997 Mar 22;314(7084):847

The promise of cloning for human medicine [editorial] [see comments] Winston R. **BMJ** 1997 Mar 29;314(7085):913–4 . Comment in: BMJ 1997 Jul 26;315(7102):255.

Two of a kind—or none? [news] Nicholson R. **Hastings Cent Rep** 1997 May–Jun;27(3):5

Put human cloning on hold, say bioethicists [news] Marwick C. **JAMA** 1997 Jul 2;278(1):13–4

EuropaBio's regulatory niche [editorial] **Nat Biotechnol** 1997 Aug;15(8):693

US bioethicists say continue human cloning moratorium [news] Fox JL. **Nat Biotechnol** 1997 Jul;15(7):609

UK's Ciba maize decision "political"? [news] Hodgson J. **Nat Biotechnol** 1997 Apr;15(4):308, 310

Clinton's cloning ban may threaten genetic research. Hoyle R. **Nat Biotechnol** 1997 Jul;15(7):600

Europe/Japan face up to legal hurdles to cloning [news] Michael A. **Nat Biotechnol** 1997 Jul;15(7):609–10

Holes in the Swiss legislation? [editorial] **Nat Genet** 1997 Sep; 17(1):1–2

Human cloning requires a moratorium, not a ban [editorial] [see comments] **Nature** 1997 Mar 6;386(6620):1. Comment in: Nature 1997 Apr 17;386(6626):642.

Short-circuit to be avoided by bioethics committees [editorial] [see comments] **Nature** 1997 May 22; 387(6631):321. Comment in: Nature 1997 Jul 24;388(6640):320.

Calls for human cloning ban 'stem from ignorance' [news] [see comments] Butler D. **Nature** 1997 May 22; 387(6631):324. Comment in: Nature 1997 Jul 24;388(6640):320.

Roslin patents come under the spotlight [news] Butler D. **Nature** 1997 May 15;387(6630):217

Calls for cloning ban sell science short [news] Butler D, et al. **Nature** 1997 Mar 6;386(6620):8–9

UK embryo research law 'may need changes' [news] Dickson D. **Nature** 1997 Mar 13;386(6621):98

British ruling supports legal challenge to broad patents [news] Dickson D. **Nature** 1996 Nov 7;384(6604):7

Africa spearheads bid for strict rules on biosafety [news] Masood E. **Nature** 1997 May 22;387(6631):326

Plant modification needs more discussion [letter; comment] Porter JR. **Nature** 1997 Mar 13;386(6621):111. Comment on: Nature 1997 Jan 23;385(6614):290.

Swiss researchers facing 'anti-transgenics' vote [news] Schiermeier Q. **Nature** 1997 Jul 24;388(6640):315

Politicians accused of 'shooting from the hip' on human cloning [news] Wadman M. **Nature** 1997 Mar 13; 386(6621):97–8

US panel to back longer cloning ban, ducks thornier questions [news] Wadman M. **Nature** 1997 May 15;387(6630):217–8

US senators urge caution on cloning ban [news] Wadman M. **Nature** 1997 Mar 20;386(6622):204

Republicans seek to widen cloning ban [news] Wadman M. **Nature** 1997 Jun 19;387(6635):748

Backing for anti-cloning bill reopens embryo debate [news] Wadman M. **Nature** 1997 Aug 7;388(6642):505

US biologists adopt cloning moratorium [news] Wadman M. **Nature** 1997 Sep 25;389(6649):319

White House bill would ban human cloning [news] Wadman M. **Nature** 1997 Jun 12;387(6634):644

Biologists mobilize against anti-genetics referendum [news] Koenig R. **Science** 1997 Jan 31;275(5300):607–8

Panel weighs a law against cloning [news] Marshall E. **Science** 1997 May 23;276(5316):1185–6

Clinton urges outlawing human cloning [news] Marshall E. **Science** 1997 Jun 13;276(5319):1640

Cloning sparks calls for new laws [news] Williams N. **Science** 1997 Mar 7;275(5305):1415

METHODS

Genetic engineering of insulin expression in nonislet cells: implications for beta-cell replacement therapy for insulin-dependent diabetes mellitus. Lipes MA, et al. **Acta Diabetol** 1997 Mar;34(1):2–5 (22 ref.)

Engineered cell lines as a tool for monitoring biological activity of hormone analogs. Joyeux A, et al. **Anal Biochem** 1997 Jul 1;249(2):119–30 (135 ref.)

Genetically engineered bacteria: electrochemical sensing systems for antimonite and arsenite. Scott DL, et al. **Anal Chem** 1997 Jan 1;69(1):16–20

Genetically engineered synthesis of natural products: from alkaloids to corrins. Roessner CA, et al. **Annu Rev Microbiol** 1996;50:467–90 (67 ref.)

A recombinase-mediated system for elimination of antibiotic resistance gene markers from genetically engineered Bacillus thuringiensis strains. Sanchis V, et al. **Appl Environ Microbiol** 1997 Feb;63(2):779–84

Harvesting molecular diversity—biology's new commodity. Smith JW, et al. **Biotechnol Genet Eng Rev** 1997;14:51–65 (45 ref.)

A chemist's perspective on the use of genetically engineered microbes as reagents for organic synthesis. Stewart JD. **Biotechnol Genet Eng Rev** 1997;14:67–143 (182 ref.)

Retrovirally transduced human dendritic cells express a normal phenotype and potent T-cell stimulatory capacity. Szabolcs P, et al. **Blood** 1997 Sep 15;90(6):2160–7

Subregion- and cell type-restricted gene knockout in mouse brain [see comments] Tsien JZ, et al. **Cell** 1996 Dec 27; 87(7):1317–26. Comment in: Cell 1996 Dec 27;87(7):1147–8.

Immunogenicity of viral epitopes expressed on genetically and enzymatically engineered immunoglobulins. Bona CA, et al. **Chem Immunol** 1997;65:179–206 (70 ref.)

Engineering novel antibody molecules. Sensel MG, et al. **Chem Immunol** 1997;65:129–58 (80 ref.)

Transgenic cell lines for detection of animal viruses. Olivo PD. **Clin Microbiol Rev** 1996 Jul;9(3):321–34 (91 ref.)

Engineering antibiotic producers to overcome the limitations of classical strain improvement programs. Lal R, et al. **Crit Rev Microbiol** 1996;22(4):201–55 (222 ref.)

Rescue of Drosophila engrailed mutants with a highly divergent mosquito engrailed cDNA using a homing, enhancer-trapping transposon. Whiteley M, et al. **Development** 1997 Apr;124(8):1531–41

Is Bt better? [news] **Environ Health Perspect** 1997 May; 105(5):472–3

Development of genetically engineered mice with hypertension and hypotension. Sugiyama F. **Exp Anim** 1997 Jul;46(3):171–82 (44 ref.)

Genetic manipulation of the embryonic kidney. Woolf AS. **Exp Nephrol** 1997 Mar-Apr;5(2):152–6 (32 ref.)

Metabolic engineering: prospects for crop improvement through the genetic manipulation of phenylpropanoid biosynthesis and defense responses—a review. Dixon RA, et al. **Gene** 1996 Nov 7;179(1):61–71 (80 ref.)

Use of the cosmid adenoviral vector cloning system for the in vitro construction of recombinant adenoviral vectors. Fu S, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1321–30

Transgenic animal technology. Wall RJ, et al. **J Androl** 1997 May-Jun;18(3):236–9 (17 ref.)

Autodisplay: one-component system for efficient surface display and release of soluble recombinant proteins from Escherichia coli. Maurer J, et al. **J Bacteriol** 1997 Feb; 179(3):794–804

Designing expression plasmid vectors in E. coli. Balbás P. **Methods Mol Biol** 1997;62:11–6

Strategies for the production of transgenic chicken. Etches RJ, et al. **Methods Mol Biol** 1997;62:433–50

Strategies in generating transgenic mammals. Jacenko O. **Methods Mol Biol** 1997;62:399–424

Overview of vector design for mammalian gene expression. Kaufman RJ. **Methods Mol Biol** 1997;62:287–300

In vitro selection of hairpin ribozymes. Sargueil B, et al. **Methods Mol Biol** 1997;74:289–300

Design of bacterial hosts for lac-based expression vectors. Schweizer HP, et al. **Methods Mol Biol** 1997;62:17–27

Strategies for gene fusions. Ståhl S, et al. **Methods Mol Biol** 1997;62:37–54

Regulation by tetracycline of gene expression in Saccharomyces cerevisiae. Nagahashi S, et al. **Mol Gen Genet** 1997 Jul;255(4):372–5

Rapid and efficient site-directed mutagenesis by single-tube 'megaprimer' PCR method. Ke SH, et al. **Nucleic Acids Res** 1997 Aug 15;25(16):3371–2

Rice transformation: bombardment. Christou P. **Plant Mol Biol** 1997 Sep;35(1–2):197–203 (29 ref.)

Expression patterns of vascular-specific promoters RolC and Sh in transgenic potatoes and their use in engineering PLRV-resistant plants. Graham MW, et al. **Plant Mol Biol** 1997 Mar;33(4):729–35

Genetic engineering of plant secondary metabolism. Accumulation of 4-hydroxybenzoate glucosides as a result of the expression of the bacterial ubiC gene in tobacco. Siebert M, et al. **Plant Physiol** 1996 Oct;112(2):811–9

Recombinational construction in Escherichia coli of infectious adenoviral genomes. Crouzet J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1414–9

Ligand-activated site-specific recombination in mice. Feil R, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):10887–90

Altered recognition mutants of the response regulator PhoB: a new genetic strategy for studying protein-protein interactions. Haldimann A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14361–6

Doxycycline-mediated quantitative and tissue-specific control of gene expression in transgenic mice. Kistner A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10933–8

NOMAD: a versatile strategy for in vitro DNA manipulation applied to promoter analysis and vector design. Rebatchouk D, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):10891–6

The function of herpes simplex virus genes: a primer for genetic engineering of novel vectors. Roizman B. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11307–12 (45 ref.)

X-ray crystallography of large RNAs: heavy-atom derivatives by RNA engineering. Golden BL, et al. **RNA** 1996 Dec;2(12):1295–305

The mouse that prompted a roar [news] Marshall E. **Science** 1997 Jul 4;277(5322):24–5

Antisense and ribozyme constructs in transgenic animals. Sokol DL, et al. **Transgenic Res** 1996 Nov;5(6):363–71 (89 ref.)

Mammalian artificial chromosomes and chromosome transgenics. Huxley C. **Trends Genet** 1997 Sep;13(9):345–7 (24 ref.)

Transgenic plants: environmentally safe factories of the future. Palmgren G. **Trends Genet** 1997 Sep;13(9):348

Genome organization, natural genetic engineering and adaptive mutation. Shapiro JA. **Trends Genet** 1997 Mar; 13(3):98–104 (68 ref.)

Transgenic frogs and FGF signalling in early development. Smith JC. **Trends Genet** 1996 Nov;12(11):439–40 (35 ref.)

Generating biological models through gene transfer to domestic animals. Houdebine LM. **Vet Res** 1997 May–Jun; 28(3):201–5 (29 ref.)

PSYCHOLOGY

Acceptability of bio-engineered vaccines. Danner K. **Comp Immunol Microbiol Infect Dis** 1997 Jan;20(1):3–12 (27 ref.)

STANDARDS

Clone sheds light on research, ethical questions [news] Inserro JC. **Am J Vet Res** 1997 May;58(5):444–5

Clone sheds light on research, ethical questions [news] Inserro JC. **J Am Vet Med Assoc** 1997 May 1;210(9):1246–7, 1255

TRENDS

Gene warfare—unless we keep our guard up [editorial] **Lancet** 1996 Nov 2;348(9036):1183

Finding a vocabulary for the extrascientific significance of technology. Golub ES. **Nat Biotechnol** 1997 May;15(5):394

Transgene technology and nutrition in the 21st century [editorial] Thomas JA. **Nutrition** 1996 Apr;12(4):278–9

Antisense gene knockdown in the nervous system revisited: optimism for the future. Leslie R, et al. **Trends Neurosci** 1997 Aug;20(8):321–2

VETERINARY

Towards the routine application of nucleic acid technology for avian disease diagnosis. Cavanagh D, et al.

Acta Vet Hung 1997;45(3):281–98 (37 ref.)

GENETIC ENGINEERING OF PROTEINS see **PROTEIN ENGINEERING**

GENETIC HETEROGENEITY

Newborn screening strategy for cystic fibrosis: a field study in an area with high allelic heterogeneity. Castellani C, et al. **Acta Paediatr** 1997 May;86(5):497–502

Heterogeneity of HIV-1 and HIV-2. Korber BT, et al. **AIDS** 1995;9 Suppl A:S5–18 (111 ref.)

HIV type 1 subtypes in Argentina and genetic heterogeneity of the V3 region. Campodonico M, et al. **AIDS Res Hum Retroviruses** 1996 Jan 1;12(1):79–81

Linkage of Wolfram syndrome to chromosome 4p16.1 and evidence for heterogeneity. Collier DA, et al. **Am J Hum Genet** 1996 Oct;59(4):855–63

Strategies for mapping heterogeneous recessive traits by allele-sharing methods. Feingold E, et al. **Am J Hum Genet** 1997 Apr;60(4):965–78

Multiple independent molecular etiology for limb-girdle muscular dystrophy type 2A patients from various geographical origins. Richard I, et al. **Am J Hum Genet** 1997 May;60(5):1128–38

Nonsyndromic hearing impairment: unparalleled heterogeneity. Van Camp G, et al. **Am J Hum Genet** 1997 Apr;60(4):758–64 (60 ref.)

Genetic heterogeneity in catatonic schizophrenia: a family study. Beckmann H, et al. **Am J Med Genet** 1996 May 31;67(3):289–300

Fragile X founder chromosomes in Italy: a few initial events and possible explanation for their heterogeneity. Chiurazzi P, et al. **Am J Med Genet** 1996 Jul 12;64(1):209–15

Juvenile myoclonic epilepsy in chromosome 6p12–p11: locus heterogeneity and recombinations. Liu AW, et al. **Am J Med Genet** 1996 Jun 14;63(3):438–46

Heterogeneity of DNA distribution pattern in renal tumours. Nenning H, et al. **Anal Cell Pathol** 1997;14(1):9–17

Genetic polymorphisms of the Basques from Gipuzkoa: genetic heterogeneity of the Basque population. Manzano C, et al. **Ann Hum Biol** 1996 Jul-Aug;23(4):285–96

Genetic heterogeneity of glucose-6-phosphate dehydrogenase deficiency in south-east Sicily. Cittadella R, et al. **Ann Hum Genet** 1997 May;61 (Pt 3):229–34

Study of the matrimonial structure of the population of central Sardinia (Italy). Vona G, et al. **Anthropol Anz** 1996 Dec;54(4):317–29

Both paroxysmal nocturnal hemoglobinuria (PNH) type II cells and PNH type III cells can arise from different point mutations involving the same codon of the PIG-A gene [letter] Rollinson S, et al. **Blood** 1997 Apr 15;89(8):3069–71

Chromosome arm 17p deletion analysis reveals molecular genetic heterogeneity in supratentorial and infratentorial primitive neuroectodermal tumors of the central nervous system. Burnett ME, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):25–31

Multifactorial inheritance of non-syndromic macrocephaly. Arbour L, et al. **Clin Genet** 1996 Aug;50(2):57–62

Bloom's syndrome. XIX. Cytogenetic and population evidence for genetic heterogeneity. German J, et al. **Clin Genet** 1996 May;49(5):223–31

Further evidence of genetic heterogeneity in hereditary hydronephrosis. McHale D, et al. **Clin Genet** 1996 Dec; 50(6):491–3

Evidence for phenotypic heterogeneity among B cells emigrating from the bursa of fabricius: a reflection of functional diversity? Paramithiotis E, et al. **Curr Top Microbiol Immunol** 1996;212:29–36 (12 ref.)

DNA ploidy heterogeneity in early and advanced gastric cancers. Fujimaki E, et al. **Cytometry** 1996 Jun 15; 26(2):131–6

Tracking down genes to cure diabetes: an achievable task for the 21st century? Froguel P. **Diabetes Metab** 1997 Mar; 23 Suppl 2:8–13 (32 ref.)

Diabetes: from phenotypes to genotypes. Guillausseau PJ, et al. **Diabetes Metab** 1997 Mar;23 Suppl 2:14–21 (91 ref.)

Are animal models of diabetes relevant to the study of the genetics of non-insulin-dependent diabetes in humans? Ktorza A, et al. **Diabetes Metab** 1997 Mar;23 Suppl 2:38–46 (64 ref.)

Genetic heterogeneity in acatalasemia. Góth L, et al. **Electrophoresis** 1996 Aug;17(8):1302–3

Blood group polymorphisms in the Canary Islands. Pinto F, et al. **Gene Geogr** 1996 Dec;10(3):171–9

Molecular heterogeneity of B-lineage diffuse large cell lymphoma. Volpe G, et al. **Genes Chromosomes Cancer** 1996 May;16(1):21–30

Prediction of heterosis from DNA fingerprints in chickens. Gavora JS, et al. **Genetics** 1996 Oct;144(2):777–84

Evidence for genetic heterogeneity in the carbohydrate-deficient glycoprotein syndrome type I (CDG1). Matthijs G, et al. **Genomics** 1996 Aug 1; 35(3):597–9

A significant beta-thalassemia heterogeneity in the United Arab Emirates. el-Kalla S, et al. **Hemoglobin** 1997 May; 21(3):237–47

Genetic heterogeneity of beta-thalassemia in populations of the Iberian Peninsula. Ribeiro ML, et al. **Hemoglobin** 1997 May;21(3):261–9

Body mass index and family histories in type II diabetic propositi and preliminary observations on the transmission of diabetes in polygamous families. Kodali VR, et al. **Hum Biol** 1997 Jun;69(3):393–402

Serological analysis of the Abbad Tribe of Jordan. Nabulsi AJ, et al. **Hum Biol** 1997 Jun;69(3):357–73

New method for comparing levels of microdifferentiation: application to migration matrices of two populations from the Basque Country (Spain). Peña JA, et al. **Hum Biol** 1997 Jun;69(3):329–44

Progressive familial intrahepatic cholestasis (PFIC): evidence for genetic heterogeneity by exclusion of linkage to chromosome 18q21–q22. Arnell H, et al. **Hum Genet** 1997 Sep;100(3–4):378–81

An extension of the admixture test for the study of genetic heterogeneity in hereditary multiple exostoses. Legeai-Mallet L, et al. **Hum Genet** 1997 Mar;99(3):298–302

Benign recurrent intrahepatic cholestasis (BRIC): evidence of genetic heterogeneity and delimitation of the BRIC locus to a 7-cM interval between D18S69 and D18S64. Sinke RJ, et al. **Hum Genet** 1997 Sep;100(3–4):382–7

The codon 31 polymorphism of the p53-inducible gene p21 shows distinct differences between major ethnic groups. Birgander R, et al. **Hum Hered** 1996 May-Jun;46(3):148–54

Phenocopies versus genetic heterogeneity: can we use phenocopy frequencies in linkage analysis to compensate for heterogeneity? Durner M, et al. **Hum Hered** 1996 Sep-Oct;46(5):265–73

Linkage analysis under locus heterogeneity: behaviour of the A-test in complex analyses. Janssen B, et al. **Hum Hered** 1997 Jul-Aug;47(4):223–33

Mutations in the gene encoding the inwardly-rectifying renal potassium channel, ROMK, cause the antenatal variant of Bartter syndrome: evidence for genetic heterogeneity. International Collaborative Study Group for Bartter-like Syndromes [published erratum appears in Hum Mol Genet 1997 Apr;6(4):650] **Hum Mol Genet** 1997 Jan;6(1):17–26

Dopa-responsive dystonia in British patients: new mutations of the GTP-cyclohydrolase I gene and evidence for genetic heterogeneity. Bandmann O, et al. **Hum Mol Genet** 1996 Mar;5(3):403–6

New mutations in acetylcholine receptor subunit genes reveal heterogeneity in the slow-channel congenital myasthenic syndrome. Engel AG, et al. **Hum Mol Genet** 1996 Sep; 5(9):1217–27

Heterogeneity in telomere length of human chromosomes. Lansdorp PM, et al. **Hum Mol Genet** 1996 May;5(5):685–91

Myosin VIIA gene: heterogeneity of the mutations responsible for Usher syndrome type IB. Lévy G, et al. **Hum Mol Genet** 1997 Jan;6(1):111–6

Evidence for locus heterogeneity in the Bethlem myopathy and linkage to 2q37. Speer MC, et al. **Hum Mol Genet** 1996 Jul;5(7):1043–6

Molecular heterogeneity of classical and Duarte galactosemia: mutation analysis by denaturing gradient gel electrophoresis. Greber-Platzer S, et al. **Hum Mutat** 1997; 10(1):49–57

Scanning method to identify the molecular heterogeneity of delta-globin gene especially in delta-thalassemias: detection of three novel substitutions in the promoter region of the gene. Papadakis M, et al. **Hum Mutat** 1997; 9(5):465–72

Heterogeneity of the internal transcribed spacer (ITS-2) region within individual deer ticks. Rich SM, et al. **Insect Mol Biol** 1997 May;6(2):123–9

Sequence heterogeneities of genes encoding 16S rRNAs in Paenibacillus polymyxa detected by temperature gradient gel electrophoresis. Nübel U, et al. **J Bacteriol** 1996 Oct; 178(19):5636–43

Heterogeneity of hemoglobin A1d: assessment and partial characterization of two new minor hemoglobins, A1d3a and A1d3b, increased in uremic and diabetic patients, respectively. Bissé E, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):349–56

Genetic heterogeneity evidenced by low incidence of KAL-1 gene mutations in sporadic cases of gonadotropin-releasing hormone deficiency. Georgopoulos NA, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):213–7

Defining microsatellite alleles by genotyping global indigenous human populations and non-human primates. Jin L, et al. **J Forensic Sci** 1997 May;42(3):496–9

Extent of heterogeneity in mitochondrial DNA of European populations. Melton T, et al. **J Forensic Sci** 1997 May; 42(3):437–46

A pentaplex automated fluorescent typing system for forensic identification and French Caucasian population data. Rousselet F, et al. **J Forensic Sci** 1997 May;42(3):500–3

Heterogeneity of hepatitis B virus (HBV) core gene in a patient with HBV-associated cirrhosis and serum negativity for anti-HBc. Zoulim F, et al. **J Hepatol** 1996 Feb;24(2):155–60

Genetic heterogeneity of Borrelia burgdorferi in the United States. Mathiesen DA, et al. **J Infect Dis** 1997 Jan; 175(1):98–107

Genetic linkage study of familial Mediterranean fever (FMF) to 16p13.3 and evidence for genetic heterogeneity in the Turkish population. Akarsu AN, et al. **J Med Genet** 1997 Jul;34(7):573–8

Genetic heterogeneity in Schwartz-Jampel syndrome: two families with neonatal Schwartz-Jampel syndrome do not map to human chromosome 1p34–p36.1. Brown KA, et al. **J Med Genet** 1997 Aug;34(8):685–7

German family study on hereditary breast-ovarian cancer. Hamann U, et al. **J Med Genet** 1996 Aug;33(8):633–5

On the genetics of hypodontia and microdontia: synergism or allelism of major genes in a family with six affected members. Lyngstadaas SP, et al. **J Med Genet** 1996 Feb; 33(2):137–42

Main clinical features of the three mapped autosomal recessive limb-girdle muscular dystrophies and estimated proportion of each form in 13 Brazilian families. Passos-Bueno MR, et al. **J Med Genet** 1996 Feb; 33(2):97–102

Genetic heterogeneity of Usher syndrome type II in a Dutch population. Pieke-Dahl S, et al. **J Med Genet** 1996 Sep; 33(9):753–7

Clinical and genetic heterogeneity of hypochondroplasia. Rousseau F, et al. **J Med Genet** 1996 Sep;33(9):749–52

Locus heterogeneity in progressive familial intrahepatic cholestasis. Strautnieks SS, et al. **J Med Genet** 1996 Oct; 33(10):833–6

The genetics of cornea plana congenita. Tahvanainen E, et al. **J Med Genet** 1996 Feb;33(2):116–9

Absence of extensive genetic heterogeneity of hepatitis C virus in antibody-negative chronic hepatitis C. Kao JH, et al. **J Med Virol** 1996 Jun;49(2):87–90

NMDA receptor heterogeneity during postnatal development of the rat brain: differential expression of the NR2A, NR2B, and NR2C subunit proteins. Wenzel A, et al. **J Neurochem** 1997 Feb;68(2):469–78

Molecular genetics of familial spastic paraplegia: a multitude of responsible genes. Kobayashi H, et al. **J Neurol Sci** 1996 May;137(2):131–8 (40 ref.)

Heterogeneity of chemosensitivity in six clonal cell lines derived from a spontaneous murine astrocytoma and its relationship to genotypic and phenotypic characteristics. Bradford R, et al. **J Neurooncol** 1997 Sep;34(3):247–61

Intratumorous heterogeneity of chromosome 10 and 17 in meningiomas using non-radioactive in situ hybridization. Scholz M, et al. **J Neurosurg Sci** 1996 Mar;40(1):17–23

Genetic heterogeneity in sporadic colorectal adenomas. Saraga E, et al. **J Pathol** 1997 Mar;181(3):281–6

Somatic cell heterogeneity between DNA extracted from lymphocytes and skeletal muscle in congenital myotonic dystrophy. Ohya K, et al. **Jpn J Hum Genet** 1995 Dec; 40(4):319–26

Multicenter genetic study of retinitis pigmentosa in Japan: I. Genetic heterogeneity in typical retinitis pigmentosa. Hayakawa M, et al. **Jpn J Ophthalmol** 1997 Jan-Feb; 41(1):1–6

Heterogeneity of squamous cell carcinomas of the head and neck—analysis of tumor biologic factors and proliferation rates. Jacob R, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1170–5

Age-related changes in T cell surface markers: a longitudinal analysis in genetically heterogeneous mice. Miller RA. **Mech Ageing Dev** 1997 Jun;96(1–3):181–96

Genetic heterogeneity of Bartter's syndrome revealed by mutations in the K+ channel, ROMK. Simon DB, et al. **Nat Genet** 1996 Oct;14(2):152–6

Heterogeneity of circulating growth hormone. Baumann G, et al. **Nucl Med Biol** 1994 Apr;21(3):369–79 (36 ref.)

Origin and significance of the heterogeneity of protein hormones. Nagy AM, et al. **Nucl Med Biol** 1994 Apr; 21(3):317–30 (39 ref.)

Genetic heterogeneity in Hispanic families with autosomal dominant juvenile glaucoma. WuDunn D, et al. **Ophthalmic Genet** 1996 Sep;17(3):87–94

Beta-thalassemia alleles in Aegean region of Turkey: effect on clinical severity of disease. Nişli G, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):59–65

Molecular heterogeneity of urinary proteins in wild house mouse populations. Robertson DH, et al. **Rapid Commun Mass Spectrom** 1997;11(7):786–90

Hepatitis C virus: biological and clinical consequences of genetic heterogeneity. Cooreman MP, et al. **Scand J Gastroenterol Suppl** 1996;218:106–15 (86 ref.)

Heterogeneity of papillomaviruses. Myers G, et al. **Semin Cancer Biol** 1996 Dec;7(6):349–58 (48 ref.)

Influence of breed-related factors on the course of classical swine fever virus infection. Depner KR, et al. **Vet Rec** 1997 May 10;140(19):506–7

[Comparative analysis of RFLP of mitochondrial DNA in Eastern Slavic populations in Russia] Derenko MV, et al. **Genetika** 1996 Jun;32(6):815–21 (Eng. Abstr.) **(Rus)**

[Phenotypic and genotypic structure of a natural Drosophila population with respect to the reaction of individuals to an increase in population density and its seasonal change] Grechanyi GV, et al. **Genetika** 1996 Oct;32(10):1341–8 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Therapy-related chromosomal changes and cytogenetic heterogeneity in human gliomas. Lai YS, et al. **J Neurooncol** 1997 Mar;32(1):7–17

GENETIC HYPOSTASIS see **EPISTASIS, GENETIC**

GENETIC IMPRINTING see **GENOMIC IMPRINTING**

GENETIC INDUCTION see **GENE EXPRESSION REGULATION**

GENETIC INTERVENTION see **GENETIC ENGINEERING**

GENETIC MARKERS

see related
CHROMOSOME MAPPING

A view of the neolithic demic diffusion in Europe through two Y chromosome-specific markers [letter] Semino O, et al. **Am J Hum Genet** 1996 Oct;59(4):964–8

Ethnic-affiliation estimation by use of population-specific DNA markers. Shriver MD, et al. **Am J Hum Genet** 1997 Apr;60(4):957–64

Identifying marker typing incompatibilities in linkage analysis. Stringham HM, et al. **Am J Hum Genet** 1996 Oct; 59(4):946–50

Testing association between candidate-gene markers and phenotype in related individuals, by use of estimating equations. Trégouët DA, et al. **Am J Hum Genet** 1997 Jul; 61(1):189–99

Interaction of genetic and exposure factors in the prevalence of berylliosis. Richeldi L, et al. **Am J Ind Med** 1997 Oct; 32(4):337–40

Nonlinkage of D6S260, a putative schizophrenia locus, to bipolar affective disorder. Adams LJ, et al.
Am J Med Genet 1996 Sep 20;67(5):485–7

Significance of linkage disequilibrium between the fragile X locus and its flanking markers [editorial] Chiurazzi P, et al. **Am J Med Genet** 1996 Jul 12;64(1):203–8 (50 ref.)

Initial genome scan of the NIMH genetics initiative bipolar pedigrees: chromosomes 4, 7, 9, 18, 19, 20, and 21q. Detera-Wadleigh SD, et al. **Am J Med Genet** 1997 May 31;74(3):254–62

Initial genomic scan of the NIMH genetics initiative bipolar pedigrees: chromosomes 3, 5, 15, 16, 17, and 22. Edenberg HJ, et al. **Am J Med Genet** 1997 May 31;74(3):238–46

Utility of linked markers in genetic counseling: estimation of carrier risks in X-linked ocular albinism. Rebbeck TR, et al. **Am J Med Genet** 1997 May 2;70(1):58–66

Initial genome scan of the NIMH genetics initiative bipolar pedigrees: chromosomes 1, 6, 8, 10, and 12. Rice JP, et al. **Am J Med Genet** 1997 May 31;74(3):247–53

+2.71 LOD score at zero recombination is not sufficient for establishing linkage between X-linked mental retardation and X-chromosome markers [letter] Robledo R, et al. **Am J Med Genet** 1996 Jul 12;64(1):134–6

Sex chromosome markers: characterization using fluorescence in situ hybridization and review of the literature. Schwartz S, et al. **Am J Med Genet** 1997 Jul 11;71(1):1–7 (62 ref.)

Initial genome screen for bipolar disorder in the NIMH genetics initiative pedigrees: chromosomes 2, 11, 13, 14, and X. Stine OC, et al. **Am J Med Genet** 1997 May 31; 74(3):263–9

Rapid identification of marker chromosomes using primed in situ labeling (PRINS). Velagaleti GV, et al.
Am J Med Genet 1997 Aug 8;71(2):130–3

No evidence for an allelic association between schizophrenia and markers D22S278 and D22S283. Williams NM, et al. **Am J Med Genet** 1997 Feb 21;74(1):37–9

Origin of Amerindian Y-chromosomes as inferred by the analysis of six polymorphic markers. Bianchi NO, et al. **Am J Phys Anthropol** 1997 Jan;102(1):79–89

Y chromosome markers and Trans-Bering Strait dispersals. Karafet T, et al. **Am J Phys Anthropol** 1997 Mar; 102(3):301–14

IDVGA65 (D6S29), a SSCP marker assigned to BTA6 by means of FISH, genetic and synteny mapping. Harlizius B, et al. **Anim Genet** 1996 Oct;27(5):379

A polymorphic trinucleotide microsatellite in cattle: BtDIAS1. Shukri NM, et al. **Anim Genet** 1996 Oct;27(5):373

Combined use of cytogenetic analysis and FISH for the identification of two antenatal de novo markers as Robertsonian translocations involving the p arms. Pierluigi M, et al. **Ann Genet** 1997;40(2):99–103

Multiple (up to seven) different accessory small marker chromosomes: prenatal diagnosis and follow-up. Ulmer R, et al. **Ann Genet** 1997;40(2):109–14

Isolation and mapping of three new polymorphic markers to chromosomes 3, 20 and 21. Bouzyk M, et al.
Ann Hum Genet 1996 Jan;60 (Pt 1):73–7

Randomization tests of disease-marker associations. Morris AP, et al. **Ann Hum Genet** 1997 Jan;61 (Pt 1):49–60

Geographic clustering of human Y-chromosome haplotypes. Ruiz Linares A, et al. **Ann Hum Genet** 1996 Sep;60 (Pt 5):401–8

Linkage of multilocus components of variance to polymorphic markers. Tiwari HK, et al.
Ann Hum Genet 1997 May;61 (Pt 3):253–61

Functional analysis of the gene encoding immunity to lactacin F, lafI, and its use as a Lactobacillus-specific, food-grade genetic marker. Allison GE, et al.
Appl Environ Microbiol 1996 Dec;62(12):4450–60

A recombinase-mediated system for elimination of antibiotic resistance gene markers from genetically engineered Bacillus thuringiensis strains. Sanchis V, et al.
Appl Environ Microbiol 1997 Feb;63(2):779–84

Genetic and immunological markers of insulin dependent diabetes in Black Americans. Leech NJ, et al.
Autoimmunity 1995;22(1):27–32

Sequential estimation of linkage between PCR-generated markers and a target gene employing stepwise bulked analysis. Ronin YI, et al. **Biometrics** 1996 Dec; 52(4):1428–39

gpt-gus fusion gene for selection and marker in recombinant poxviruses. Cao JX, et al. **Biotechniques** 1997 Feb; 22(2):276–8

Transient selection during vaccinia virus recombination with insertion vectors without selectable markers. Kurilla MG. **Biotechniques** 1997 May;22(5):906–10

Cytokine prestimulation as a gene therapy strategy: implications for using the MDR1 gene as a dominant selectable marker. Blau CA, et al. **Blood** 1997 Jan 1; 89(1):146–54

Gene-marking and haemopoietic stem-cell transplantation. Heslop HE, et al. **Blood Rev** 1995 Dec;9(4):220–5 (39 ref.)

Molecular genetics of small bowel cancer. Arber N, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep;6(9):745–8 (57 ref.)

Strength of linkage disequilibrium between two vitamin D receptor markers in five ethnic groups: implications for association studies. Ingles SA, et al.
Cancer Epidemiol Biomarkers Prev 1997 Feb;6(2):93–8

In vitro maintenance and retroviral transduction of human myeloma cells in long-term marrow cultures. Stewart AK, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):148–56

PCR analysis of half-seeds of cereal crops and its application in marker-assisted selection and breeding. Zhai W, et al. **Chin J Biotechnol** 1996;12(4):249–55

Genetic markers of alcohol abuse. Ferguson RA, et al.
Clin Chim Acta 1997 Jan 17;257(2):199–250 (232 ref.)

Detection of an EcoRI restriction fragment length polymorphism in the gene encoding the human TBP associated factor II 30 (TAF(II)30). Chéhensse V, et al. **Clin Genet** 1997 Apr;51(4):288–9

A polymorphism in intron 2 of the TP53 gene. DiCioccio RA, et al. **Clin Genet** 1996 Aug;50(2):108–9

Recombination between the postulated CCD/MHE/MHS locus and RYR1 gene markers. Fagerlund TH, et al.
Clin Genet 1996 Dec;50(6):455–8

A fok1 polymorphism in the human neuronal nicotinic acetylcholine receptor alpha 4 subunit gene. Guipponi M, et al. **Clin Genet** 1997 Jan;51(1):78–9

Short report on DNA marker at candidate locus. Two new alleles in the tetranucleotide repeat polymorphism in the LDL-receptor-related protein (LRP) gene. Harris M, et al. **Clin Genet** 1996 Jul;50(1):54–5

Detection of a SacI restriction fragment length polymorphism at the human phenolsulphotransferase locus. Jones AL, et al. **Clin Genet** 1996 Mar;49(3):164–5

A highly polymorphic (CA) repeat sequence in the human lysyl oxidase-like gene. Kim Y, et al. **Clin Genet** 1997 Feb; 51(2):131–2

Frequent intragenic polymorphism in the 3' untranslated region of the lissencephaly gene 1 (LIS-1). Koch A, et al. **Clin Genet** 1996 Dec;50(6):527–8

MspI identifies a biallelic polymorphism in the promoter region of the alpha 2A-adrenergic receptor gene. Lario S, et al. **Clin Genet** 1997 Feb;51(2):129–30

A novel V415A mutation in exon 9 of the low density lipoprotein receptor gene causing familial hypercholesterolemia. Lombardi P, et al. **Clin Genet** 1997 Apr;51(4):286–7

A novel polymorphism (1121 C/T) in intron 3 of the human apolipoprotein A-I gene. Motti C, et al. **Clin Genet** 1997 Feb;51(2):127–8

SSCP variants within the alpha 4 subunit of the neuronal nicotinic acetylcholine receptor gene. Phillips HA, et al. **Clin Genet** 1997 Feb;51(2):135–6

A tetranucleotide repeat polymorphism within the human elastin gene (ELNi1). Urbán Z, et al. **Clin Genet** 1997 Feb; 51(2):133–4

Dinucleotide repeat polymorphisms at D9S171 and D9S741 are identical. Xu SY, et al. **Clin Genet** 1996 Dec;50(6):531–2

Grouper--creation of marker sets for multiplexed genotyping. Fuchs R. **Comput Appl Biosci** 1997 Jun; 13(3):239–41

SAM: a system for iteratively building marker maps. Soderlund C, et al. **Comput Appl Biosci** 1995 Dec; 11(6):645–55

Optional elements in the chloroplast DNAs of chlamydomonas eugametos and C. moewusii: unidirectional gene conversion and co-conversion of adjacent markers in high-viability crossses. Bussières J, et al. **Curr Genet** 1996 Sep;30(4):356–65

Non-Mendelian and skewed segregation of DNA markers in wide crosses of the bean rust fungus, Uromyces appendiculatus. Martinez JP, et al. **Curr Genet** 1996 Jan; 29(2):159–67

Integration of 101 DNA markers across human Xp11 using a panel of somatic cell hybrids. Boycott KM, et al.
Cytogenet Cell Genet 1997;76(3-4):223–8

A novel multicolor hybridization scheme applied to localization of a transcribed sequence (D10S170/H4) and deletion mapping in the thyroid cancer cell line TPC-1. Jossart GH, et al. **Cytogenet Cell Genet** 1996;75(4):254–7

Standardization of cattle karyotype nomenclature: report of the committee for the standardization of the cattle karyotype. Popescu CP, et al. **Cytogenet Cell Genet** 1996; 74(4):259–61

Ordering of polymorphic markers in the chromosome region 3p21. van den Berg A, et al. **Cytogenet Cell Genet** 1996; 72(2-3):225–8

Is ACE gene polymorphism a useful marker for diabetic albuminuria in Japanese NIDDM patients? Nakajima S, et al. **Diabetes Care** 1996 Dec;19(12):1420–2

Hypertriglyceridaemia and Lewis (A-B-) phenotype in non-insulin-dependent diabetic patients. Petit JM, et al. **Diabetes Metab** 1997 Jun;23(3):202–4

Successful deoxyribonuclease I (DNase I) phenotyping from a small piece of used sock. Yasuda T, et al.
Electrophoresis 1996 Jul;17(7):1253–6

Informed consent in epidemiologic studies involving genetic markers. Hunter D, et al. **Epidemiology** 1997 Sep;8(5):596–9 (9 ref.)

Genetic markers in diagnosis and prediction of relapse in Graves' disease. Badenhoop K, et al.
Exp Clin Endocrinol Diabetes 1996;104 Suppl 4:98–100

Indisputable double paternity in dizygous twins. Girela E, et al. **Fertil Steril** 1997 Jun;67(6):1159–61

Genetic linkage maps of the rat derived from an intercross and recombinant inbred strains originating from the BN.Lx and SHR progenitors. Pravenec M, et al.
Folia Biol (Praha) 1996;42(4):147–53

Baculovirus immediate-early promoter-mediated expression of the Zeocin resistance gene for use as a dominant selectable marker in dipteran and lepidopteran insect cell lines. Pfeifer TA, et al. **Gene** 1997 Apr 1;188(2):183–90

Stable nuclear transformation of Chlamydomonas reinhardtii with a Streptomyces rimosus gene as the selective marker. Sizova IA, et al. **Gene** 1996 Nov 28;181(1-2):13–8

Genetic characteristics of the Georgian population. Nasidze IS, et al. **Gene Geogr** 1996 Aug;10(2):105–12

Hemogenetic studies in southern Germany. Schmidt HD, et al. **Gene Geogr** 1996 Dec;10(3):191–200

Frequent loss of heterozygosity for markers on chromosome arm 10q in chondrosarcomas. Raskind WH, et al.
Genes Chromosomes Cancer 1996 Jun;16(2):138–43

Primer-directed synthesis of a molecular weight marker. Amills M, et al. **Genet Anal** 1996 Dec;13(6):147–9

Retrofitting high molecular weight DNA cloned in P1: introduction of reporter genes, markers selectable in mammalian cells and generation of nested deletions. Chatterjee PK, et al. **Genet Anal** 1996 Jul;13(2):33–42

Detection of species-specific genetic markers in farm animals through random amplified polymorphic DNA (RAPD). Rao KB, et al. **Genet Anal** 1996 Nov;13(5):135–8

Exact transmission-disequilibrium tests with multiallelic markers. Cleves MA, et al. **Genet Epidemiol** 1997; 14(4):337–47

General score tests for associations of genetic markers with disease using cases and their parents. Schaid DJ.
Genet Epidemiol 1996;13(5):423–49

Neutral genetic markers and conservation genetics: simulated germplasm collections. Bataillon TM, et al. **Genetics** 1996 Sep;144(1):409–17

Design III with marker loci. Cockerham CC, et al.
Genetics 1996 Jul;143(3):1437–56

A statistical test of a neutral model using the dynamics of cytonuclear disequilibria. Datta S, et al. **Genetics** 1996 Dec; 144(4):1985–92

Marker-based inferences about epistasis for genes influencing inbreeding depression. Fu YB, et al. **Genetics** 1996 Sep; 144(1):339–48

Genetic mapping of quantitative trait loci controlling growth and wood quality traits in Eucalyptus grandis using a maternal half-sib family and RAPD markers. Grattapaglia D, et al. **Genetics** 1996 Nov;144(3):1205–14

RFLP mapping in cultivated sugarcane (Saccharum spp.): genome organization in a highly polyploid and aneuploid interspecific hybrid. Grivet L, et al. **Genetics** 1996 Mar; 142(3):987–1000

Multilocus and multitrait measures of differentiation for gene markers and phenotypic traits. Kremer A, et al.
Genetics 1997 Apr;145(4):1229–41

A population genetics model of marker-assisted selection. Luo ZW, et al. **Genetics** 1997 Jul;146(3):1173–83

The use of multiple markers in a Bayesian method for mapping quantitative trait loci. Uimari P, et al. **Genetics** 1996 Aug;143(4):1831–42

A codominant DNA marker closely linked to the rice nuclear restorer gene, RF-1, identified with inter-SSR fingerprinting. Akagi H, et al. **Genome** 1996 Dec; 39(6):1205–9

Development of a SCAR marker linked to the I gene in common bean. Melotto M, et al. **Genome** 1996 Dec; 39(6):1216–9

Chromosomal localization and expressed sequence tag generation of clones from a normalized human adult thymus cDNA library. Lamerdin JE, et al. **Genome Res** 1995 Nov;5(4):359–67

Evolutionary features of the 4-Mb Xq21.3 XY homology region revealed by a map at 60-kb resolution. Mumm S, et al. **Genome Res** 1997 Apr;7(4):307–14

Human repeat-mediated integration of selectable markers into somatic cell hybrids. Watson JE, et al.
Genome Res 1995 Dec;5(5):444–52

Genetic maps of polymorphic DNA loci on rat chromosome 1. Ding YP, et al. **Genomics** 1996 Sep 1;36(2):320–7

A mouse chromosome-specific YAC probe collection for in situ hybridization. Mongelard F, et al. **Genomics** 1996 Dec 15;38(3):432–4

CONTIG EXPLORER: interactive marker-content map assembly. Nadkarni PM, et al. **Genomics** 1996 Feb 1; 31(3):301–10

Use of AFLP markers for gene mapping and QTL detection in the rat. Otsen M, et al. **Genomics** 1996 Nov 1; 37(3):289–94

Regional localization of 192 genic markers on human

chromosome 1. Roberts T, et al. **Genomics** 1996 Sep 1; 36(2):337–40

Incorporation of 35 novel gene transcripts into the physical and genetic map of human chromosome 13. Still IH, et al. **Genomics** 1996 Apr 15;33(2):159–66

Detailed comparative map of human chromosome 19q and related regions of the mouse genome. Stubbs L, et al. **Genomics** 1996 Aug 1;35(3):499–508

Localization of landmarks and bands in the karotype of Sus scrofa domestica. Comparison between different classifications. Rønne M. **Hereditas** 1995;123(2):155–68

Genetic variation at marker loci and in quantitative traits in natural populations of Arabidopsis thaliana. Kuittinen H, et al. **Heredity** 1997 Aug;79 (Pt 2):144–52

ORDA reports. **Hum Gene Ther** 1997 Mar 20;8(5):625–58

Human gene marker/therapy clinical protocols. Rosenberg SA, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1621–47

Human gene marker/therapy clinical protocols. Rosenberg SA, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2287–313

A retroviral vector that allows efficient co-expression of two genes and the versatility of alternate selection markers. Saleh M. **Hum Gene Ther** 1997 May 20;8(8):979–83

Genetic markers for glutamic acid decarboxylase do not predict insulin-dependent diabetes mellitus in pairs of affected siblings. The Danish Study Group of Diabetes in Childhood. Rambrand T, et al. **Hum Genet** 1997 Feb; 99(2):177–85

Automated selection of short tandem repeat polymorphism markers for whole genome screening for segmental aneusomy. Biesecker LG, et al. **Hum Hered** 1997 Mar–Apr; 47(2):76–85

No evidence of linkage for cleft lip with or without cleft palate to a marker near the transforming growth factor alpha locus in two populations. Wyszynski DF, et al. **Hum Hered** 1997 Mar–Apr;47(2):101–9

Marker chromosomes in fetal loss. Kumar C, et al. **Hum Reprod** 1997 Jun;12(6):1321–4 (46 ref.)

Evaluation of 7 DNA markers (D1S80, HLA-DQ alpha, LDLR, GYPA, HBGG, D7S8 and GC) in a Japanese population. Nakajima T, et al. **Int J Legal Med** 1996; 109(1):47–8

Prospects for development of genetic markers for resistance to gastrointestinal parasite infection in sheep. Beh KJ, et al. **Int J Parasitol** 1996 Aug–Sep;26(8–9):879–97 (149 ref.)

Phenotypic markers for selection of nematode-resistant sheep. Douch PG, et al. **Int J Parasitol** 1996 Aug–Sep; 26(8–9):899–911 (44 ref.)

Finding genetic markers for complex phenotypic traits in parasites. Lymbery AJ. **Int J Parasitol** 1996 Jan;26(1):7–17 (70 ref.)

Genetic markers in primary open-angle glaucoma. Abecia E, et al. **Int Ophthalmol** 1996–97;20(1–3):79–82

Amplification of the RB1.20 polymorphism in single spermatozoa. Girardet A, et al. **J Assist Reprod Genet** 1997 Mar;14(3):177–9

Directed insertion of a selectable marker into a circular plasmid of Borrelia burgdorferi. Rosa P, et al. **J Bacteriol** 1996 Oct;178(20):5946–53

Marker-assisted selection for a sex-limited character in a nucleus breeding population. Ruane J, et al. **J Dairy Sci** 1996 Sep;79(9):1666–78

Genetic markers in early diabetic retinopathy of adolescents with type I diabetes. Falck AA, et al. **J Diabetes Complications** 1997 Jul–Aug;11(4):203–7

Evaluation of independence assumptions for PCR-based and protein-based genetic markers in New Jersey Caucasians. Budowle B, et al. **J Forensic Sci** 1997 Mar;42(2):223–5

Genetic markers for the identification of two tick species, Amblyomma dissimile and Amblyomma rotundatum. Lampo M, et al. **J Parasitol** 1997 Jun;83(3):382–6

Ribosomal and kDNA markers distinguish two subgroups of Herpetomonas among old species and new trypanosomatids isolated from flies. Teixeira MM, et al. **J Parasitol** 1997 Feb;83(1):58–65

The bent-leg syndrome in sheep. II. Association with genetic markers. Van Niekerk FE, et al. **J S Afr Vet Assoc** 1990 Dec;61(4):151–4

Estimation of the physical distance between major genomic markers in the Werner syndrome locus (8p11.2–12) by dual-color fish analysis. Tokutake Y, et al. **Jpn J Hum Genet** 1996 Sep;41(3):291–7

Molecular diagnosis and monitoring of acute myeloid leukemia. Biondi A, et al. **Leuk Res** 1996 Oct;20(10):801–7 (47 ref.)

In vivo drug-selectable markers in gene therapy. Sugimoto Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:552–6

New markers on bovine chromosome 1 are closely linked to the polled gene in Simmental and Pinzgauer cattle. Harlizius B, et al. **Mamm Genome** 1997 Apr;8(4):255–7

The isolation and mapping of PCR markers specific to mouse Chromosome 2. Melas S, et al. **Mamm Genome** 1996 Feb; 7(2):145–8

Strain distribution patterns for genetic markers in the LSXSS recombinant-inbred series. Markel PD, et al. **Mamm Genome** 1996 Jun;7(6):408–12

An additional 136 SSLP markers typed for the AXB and BXA recombinant inbred mouse strains. Naggert JK, et al. **Mamm Genome** 1997 Mar;8(3):209–11

SSLPs to map genetic differences between the 129 inbred strains and closed-colony, random-bred CD-1 mice. Threadgill DW, et al. **Mamm Genome** 1997 Jun;8(6):441–2

Use of green fluorescent protein for intracellular protein localization in living fission yeast cells. Nabeshima K, et al. **Methods Enzymol** 1997;283:459–71

Human placental alkaline phosphatase as a marker for gene expression. Bates P, et al. **Methods Mol Biol** 1997;63:41–8

A mutant dihydrofolate reductase-thymidylate synthase from Leishmania major as a selectable marker in transfection experiments. Arrebola R, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):129–33

Stage-specific expression of a selectable marker in Toxoplasma gondii permits selective inhibition of either tachyzoites or bradyzoites. Bohne W, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):115–26

Development of microsatellite markers and characterization of simple sequence length polymorphism (SSLP) in rice (Oryza sativa L.). Panaud O, et al. **Mol Gen Genet** 1996 Oct 16;252(5):597–607

Use of allele specificity of comigrating AFLP markers to align genetic maps from different potato genotypes. Rouppe van der Voort JN, et al. **Mol Gen Genet** 1997 Jul; 255(4):438–47

Intron-length polymorphism at the actin gene locus mac-1: a genetic marker for population studies in the marine mussels Mytilus galloprovincialis Lmk. and M. edulis L. Ohresser M, et al. **Mol Mar Biol Biotechnol** 1997 Jun; 6(2):123–30

Random amplified polymorphic DNA (RAPD) markers for determination of genetic variation in wild populations of the black tiger prawn (Penaeus monodon) in Thailand. Tassanakajon A, et al. **Mol Mar Biol Biotechnol** 1997 Jun; 6(2):110–5

Candidate loci and random marker approaches to studying the genetics of asthma. Wilkinson J, et al. **Monogr Allergy** 1996;33:109–24 (66 ref.)

Selective production of transgenic mice using green fluorescent protein as a marker. Takada T, et al. **Nat Biotechnol** 1997 May;15(5):458–61

The use of a genetic map of biallelic markers in linkage studies. Kruglyak L. **Nat Genet** 1997 Sep;17(1):21–4

Cell-surface markers for assessing gene transfer into human hematopoietic cells [see comments] Phillips K, et al. **Nat Med** 1996 Oct;2(10):1154–6 (25 ref.). Comment in: Nat Med 1996 Dec;2(12):1280–1.

Genetic tagging of humpback whales. Palsbøll PJ, et al. **Nature** 1997 Aug 21;388(6644):767–9

One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins. Lafontaine D, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3469–71

Molecular haplotyping of genetic markers 10 kb apart by allele-specific long-range PCR. Michalatos-Beloin S, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4841–3

Introduction of the negative selection marker into replacement vectors by a single ligation step. Tzimagiorgis G, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3476–7

Use of random amplified polymorphic DNA-polymerase chain reaction for the definition of genetic markers for species and strains of porcine Oesophagostomum. Joachim A, et al. **Parasitol Res** 1997;83(7):646–54

Biomarkers in Alzheimer's disease? [editorial] Mattila KM, et al. **Pathol Biol (Paris)** 1996 Oct;44(8):685–8 (40 ref.)

Genetic mapping of genes regulating the thymus size in back-cross rats between the laboratory BUF/Mna strain and the MITE strain derived from the wild rat, Rattus norvegicus. Sharma N, et al. **Pathol Int** 1997 Jul; 47(7):436–41

Isolation and mapping of a new set of 129 RFLP markers in Arabidopsis thaliana using recombinant inbred lines. Liu YG, et al. **Plant J** 1996 Oct;10(4):733–6

Ds elements on all five Arabidopsis chromosomes and assessment of their utility for transposon tagging. Long D, et al. **Plant J** 1997 Jan;11(1):145–8

Development of a simple transient assay for Ac/Ds activity in cells of intact barley tissue. McElroy D, et al. **Plant J** 1997 Jan;11(1):157–65

New potential markers of in vitro tomato morphogenesis identified by mRNA differential display. Torelli A, et al. **Plant Mol Biol** 1996 Dec;32(5):891–900

Prenatal diagnosis of a deletion of 18q in a fetus associated with multiple-marker screen positive results. Chen CP, et al. **Prenat Diagn** 1997 Jun;17(6):571–6

Long-range disruption of gene expression by a selectable marker cassette. Pham CT, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13090–5

Defining etiologic heterogeneity in breast cancer using genetic biomarkers. Rebbeck TR, et al. **Prog Clin Biol Res** 1997;396:53–61 (20 ref.)

Genetic markers for peptic ulcer. A study of 3387 men aged 54 to 74 years: the Copenhagen Male Study. Hein HO, et al. **Scand J Gastroenterol** 1997 Jan;32(1):16–21

Genetic analysis of complex diseases [letter; comment] Long AD, et al. **Science** 1997 Feb 28;275(5304):1328; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

Snipping away at genome patenting [news] Marshall E. **Science** 1997 Sep 19;277(5333):1752–3

Clinical relevance of polymorphic markers of arterial thrombosis. Di Minno G, et al. **Thromb Haemost** 1997 Jul; 78(1):462–6 (65 ref.)

Genetic markers in the Tuvan population of Todja, Siberia. Pospelov LE, et al. **Tissue Antigens** 1997 Jun;49(6):629–34

Scanning electron microscopy of fragmentary marker chromosomes observed by light microscopy. Uehara S, et al. **Tohoku J Exp Med** 1996 Jun;179(2):131–9

Verification of the identity of bovine semen using DNA microsatellite markers. Williams JL, et al. **Vet Rec** 1997 Apr 26;140(17):446–9

A set of genetic markers for the chromosomes of the imperfect yeast Arxula adeninivorans. Samsonova IA, et al. **Yeast** 1996 Sep 30;12(12):1209–17

Expression cassettes for formaldehyde and fluoroacetate resistance, two dominant markers in Saccharomyces cerevisiae. van den Berg MA, et al. **Yeast** 1997 May; 13(6):551–9

Molecular biomarkers of occupational lung cancer. Talaska G, et al. **Yonsei Med J** 1996 Feb;37(1):1–18 (61 ref.)

[Potential genetic markers for prognosis and therapeutic response] Lidereau R. **Bull Cancer** 1996 Dec;83(12):1040 **(Fre)**

[Cytogenic characterization of chromosome markers detected at amniocentesis: implications for karyotype-phenotype correlations] Valerio D, et al. **Minerva Ginecol** 1996 Sep; 48(9):365–9 (Eng. Abstr.) **(Ita)**

[Directed transfer of the human apolipoprotein A-I gene and bacterial genes-markers into rat liver] Perevozchikov AP, et al. **Dokl Akad Nauk** 1997 Feb;352(4):571–4 **(Rus)**

[A polymorphic markers for the p75 tumor necrosis factor receptor gene: use for analyzing disease linkage] Turetskaia RL, et al. **Dokl Akad Nauk** 1996 Dec;351(4):558–60 **(Rus)**

[Gene diffusion in hybrid populations of green frogs Rana esculenta L., 1758 complex (Amphibia, Ranidae) from the Dnepr Basin] Mezhzherin SV, et al. **Genetika** 1997 Mar; 33(3):358–64 (Eng. Abstr.) **(Rus)**

[Possible connection between the level of heterozygosity of biochemical gene markers in patients with lung diseases] Spitsyn VA, et al. **Genetika** 1996 Jul;32(7):990–5 (Eng. Abstr.) **(Rus)**

[Development of molecular-genetic identified combined "sex/genotype" systems based on amelogenin and HLA-DQ1 loci and the Polymarker(TM) system] Ivanov PL, et al. **Mol Biol (Mosk)** 1997 May–Jun;31(3):557–63 **(Rus)**

[Tetranucleotide markers based on a cosmid from the ordered clone library of human chromosome 13] Ivanova GM, et al. **Mol Biol (Mosk)** 1997 May–Jun;31(3):407–17 **(Rus)**

[Molecular markers in genetic mapping of plants] Malyshev SV, et al. **Mol Biol (Mosk)** 1997 Mar–Apr;31(2):197–208 (92 ref.) **(Rus)**

GENETICS

Biochemical markers of alcohol use and abuse: experiences from the Pilot Study of the WHO/ISBRA Collaborative Project on state and trait markers of alcohol. International Society for Biomedical Research on Alcoholism. Helander A, et al. **Alcohol Alcohol** 1997 Mar–Apr;32(2):133–44

Quick method for confirmation of quantitative trait loci. Bennett B, et al. **Alcohol Clin Exp Res** 1997 Aug; 21(5):767–72

Tyrosine hydroxylase and dopamine D4 receptor allelic distribution in Scandinavian chronic alcoholics. Geijer T, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):35–9

The WHO/ISBRA study on state and trait markers in alcoholism: progress report. Tabakoff B. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):243A–247A

A new DNA marker, U15557, is linked to protease inhibitor and adenylate kinase-1 in the laboratory opossum, Monodelphis domestica. Perelygin AA, et al. **Anim Genet** 1996 Apr;27(2):113–6

Polymorphism of conventional genetic markers and HLA system in Turkey. Atasoy S, et al. **Anthropol Anz** 1997 Mar; 55(1):55–61

Overcoming a defect in generalized recombination in the marine fish pathogen Vibrio anguillarum 775: construction of a recA mutant by marker exchange. Singer JT, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3727–31

A simple method to calculate resolving power and confidence interval of QTL map location. Darvasi A, et al. **Behav Genet** 1997 Mar;27(2):125–32

An improved multipoint sib-pair analysis of quantitative traits. Fulker DW, et al. **Behav Genet** 1996 Sep;26(5):527–32

Spurious associations in unreplicated selected lines. Henderson ND. **Behav Genet** 1997 Mar;27(2):145–54

Genetic markers associated with high versus low performance on episodic memory tasks. Nilsson LG, et al. **Behav Genet** 1996 Nov;26(6):555–62

Identification of quantitative trait loci involved in contextual and auditory-cued fear conditioning in BXD recombinant inbred strains. Owen EH, et al. **Behav Neurosci** 1997 Apr; 111(2):292–300

Serial analysis of gene expression: ESTs get smaller. Adams MD. **Bioessays** 1996 Apr;18(4):261–2 (5 ref.)

Association study of NlaIII and MspI genetic polymorphisms of catechol-O-methyltransferase gene and susceptibility to schizophrenia. Chen CH, et al. **Biol Psychiatry** 1997 May 1;41(9):985–7

D2 dopamine receptor gene TaqI A1 and B1 restriction fragment length polymorphisms: enhanced frequencies in psychostimulant-preferring polysubstance abusers. Persico AM, et al. **Biol Psychiatry** 1996 Oct 15;40(8):776–84

GELSTATS: a computer program for population genetics analyses using VNTR multilocus probe data. Rogstad SH, et al. **Biotechniques** 1996 Dec;21(6):1128–31

Analysis of 21 Stargardt's disease families confirms a major locus on chromosome 1p with evidence for non-allelic

heterogeneity in a minority of cases. Weber BH, et al. **Br J Ophthalmol** 1996 Aug;80(8):745–9

Absence of linkage between 5q markers and serum IgE levels in four large atopic families. Blumenthal MN, et al. **Clin Exp Allergy** 1996 Aug;26(8):892–6

Presymptomatic molecular diagnosis of autosomal dominant polycystic kidney disease using PKD1- and PKD2-linked markers in Cypriot families. Deltas CC, et al. **Clin Genet** 1996 Jul;50(1):10–8

Short report on DNA marker at candidate locus. Patsalis PC, et al. **Clin Genet** 1995 Nov;48(5):275–6

A molecular marker confirms that the rate of adult maturation is largely independent of the rate of pre-adult development in Drosophila melanogaster. Blake KJ, et al. **Dev Genet** 1996;18(2):125–30

Internal marker for quantitative analysis of mRNA by reverse transcriptase-polymerase chain reaction in pancreatic beta cells [letter] Yamato E, et al. **Diabetologia** 1996 Jun; 39(6):747–8

Isolation of a marker for head-specific cell differentiation in hydra. Hermans-Borgmeyer I, et al. **Differentiation** 1996 Dec;61(2):95–101

Genetic profiles of three inbred strains derived from wild rats (Rattus norvegicus) trapped in Japan. Kondo Y, et al. **Exp Anim** 1996 Oct;45(4):405–9

Spanish population data on seven loci: D1S80, D17S5, HUMTH01, HUMVWA, ACTBP2, D21S11 and HLA-DQA1. Lorente M, et al. **Forensic Sci Int** 1997 May 5;86(3):163–71

Sequence variation of a hypervariable short tandem repeat at the D12S391 locus. Lareu MV, et al. **Gene** 1996 Dec 5;182(1–2):151–3

Evidence for intragenic recombination within a novel genetic marker that distinguishes mussels in the Mytilus edulis species complex. Rawson PD, et al. **Heredity** 1996 Dec; 77 (Pt 6):599–607

Population history of north Africa: evidence from classical genetic markers. Bosch E, et al. **Hum Biol** 1997 Jun; 69(3):295–311

Variability of genetic markers in Himachal Pradesh, India: variation among the subpopulations. Papiha SS, et al. **Hum Biol** 1996 Oct;68(5):629–54

Genetics of the Chuetas (Majorcan Jews): a comparative study. Picornell A, et al. **Hum Biol** 1997 Jun;69(3):313–28

HLA class II DNA typing in Buerger's disease. Aerbajinai W, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S197–202

Allele frequency distributions of 13 PCR-based systems in a population from North-East Spain. Crespillo M, et al. **Int J Legal Med** 1997;110(4):223–5

Microvariation at the human D1S80 locus. Duncan GT, et al. **Int J Legal Med** 1997;110(3):150–4

Statistical analysis of data for three British ethnic groups from a new STR multiplex. Evett IW, et al. **Int J Legal Med** 1997;110(1):5–9

Semi-automatic DNA profiling in a Hungarian Romany population using the STR loci HumVWFA31, HumTH01, HumTPOX, and HumCSF1PO. Füredi S, et al. **Int J Legal Med** 1997;110(4):184–7

Population study of the STRs HUMCD4 and HUMF13A1 in Catalonia (Northeast Spain). Gené M, et al. **Int J Legal Med** 1997;110(1):44–5

Sequence variation of allele 27 at the D1S80 locus. Harashima N, et al. **Int J Legal Med** 1997;110(1):22–6

Analysis of the short tandem repeat systems HumVWA and HumF13B in a population sample from northern Thailand. Horst B, et al. **Int J Legal Med** 1997;110(4):235–7

Genetic variation at five STR loci in subpopulations living in Turkey. Iwasa M, et al. **Int J Legal Med** 1997; 110(3):170–2

The Y chromosome in forensic analysis and paternity testing. Jobling MA, et al. **Int J Legal Med** 1997;110(3):118–24 (32 ref.)

D1S80 (pMCT118) allele frequencies in a Malay population sample from Malaysia. Koh CL, et al. **Int J Legal Med** 1997;110(1):39–40

Short tandem repeat polymorphism at the HUMCD4 and HUMF13B loci in a Croatian population. Kubat M, et al. **Int J Legal Med** 1997;110(4):230–1

Frequencies of the five PCR-based genetic markers LDLR, GYPA, HBGG, D7S8 and GC in the population of Asturias (North Spain). Martínez-Jarreta B, et al. **Int J Legal Med** 1997;110(1):41–3

A Dutch population study of the STR loci D21S11 and HUMFIBRA. Ovington A, et al. **Int J Legal Med** 1997; 110(1):14–7

Frequencies for five short tandem repeat (STR) systems in a population from north Poland. Pawlowski R, et al. **Int J Legal Med** 1997;110(1):10–3

Evaluation of new primers for CSF1PO. Yoshida K, et al. **Int J Legal Med** 1997;110(1):36–8

Linkage studies in bipolar affective disorder with markers on chromosome 21. Vallada H, et al. **J Affect Disord** 1996 Dec 16;41(3):217–21

Rapid communication: the first microsatellite DNA marker for marble trout, BFRO 001. Snoj A, et al. **J Anim Sci** 1997 Jul;75(7):1983

Nonword repetition as a behavioural marker for inherited language impairment: evidence from a twin study. Bishop DV, et al. **J Child Psychol Psychiatry** 1996 May; 37(4):391–403

Improved genetic mapping of X linked retinoschisis. George ND, et al. **J Med Genet** 1996 Nov;33(11):919–22

Diagnosis of malignant hyperthermia: a comparison of the in vitro contracture test with the molecular genetic diagnosis in a large pedigree. Healy JM, et al. **J Med Genet** 1996 Jan;33(1):18–24

Cytogenetic and molecular findings in patients with Turner's syndrome stigmata. Kuznetzova T, et al. **J Med Genet** 1995 Dec;32(12):962–7

Pathology of familial breast cancer: differences between breast cancers in carriers of BRCA1 or BRCA2 mutations and sporadic cases. Breast Cancer Linkage Consortium [see comments] **Lancet** 1997 May 24;349(9064):1505–10. Comment in: Lancet 1997 May 24;349(9064):1488–9.

New BRCA2 mutation in an Ashkenazi Jewish family with breast and ovarian cancer [letter] Robson ME, et al. **Lancet** 1997 Jul 12;350(9071):117–8

Encyclopedia of the mouse genome VI. Master locus list. **Mamm Genome** 1997;7 Spec No:S330–62

Mapping of rat chromosome 5 markers generated from chromosome-sorted DNA. Deng AY, et al. **Mamm Genome** 1997 Aug;8(8):549–53

The SMXA: a new set of recombinant inbred strain of mice consisting of 26 substrains and their genetic profile. Nishimura M, et al. **Mamm Genome** 1995 Dec;6(12):850–7

Genetic composition of the recombinant congenic strains. Stassen AP, et al. **Mamm Genome** 1996 Jan;7(1):55–8

Strain distribution pattern for SSLP markers in the SWXJ recombinant inbred strain set: chromosomes 1 to 6. Svenson KL, et al. **Mamm Genome** 1995 Dec;6(12):867–72

New polymorphic markers in the vicinity of the pearl locus on mouse chromosome 13. Xu HP, et al. **Mamm Genome** 1996 Jan;7(1):16–9

Mapping of 20 polymorphic DNA markers in the rat by somatic hybrid and linkage analysis. Yokoi N, et al. **Mamm Genome** 1996 Jan;7(1):71–3

Green fluorescent protein (GFP) as a new vital marker in the phytopathogenic fungus Ustilago maydis. Spellig T, et al. **Mol Gen Genet** 1996 Oct 16;252(5):503–9

Linkage studies in alcohol-responsive myoclonic dystonia. Gasser T, et al. **Mov Disord** 1996 Jul;11(4):363–70

DNA diagnosis and identification of carriers of infantile and juvenile neuronal ceroid lipofuscinoses. Syvänen AC, et al. **Neuropediatrics** 1997 Feb;28(1):63–6

The allele frequency distribution at VNTR locus D17S5 (YNZ22) in a Japanese population sample. Harashima N, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):237–40

pTIM3, a plasmid delivery vector for a transposon-based inducible marker gene system in gram-negative bacteria. Saint CP, et al. **Plasmid** 1995 Nov;34(3):165–74

Studies of the c-Harvey-Ras gene in psychiatric disorders. Comings DE, et al. **Psychiatry Res** 1996 Jun 26;63(1):25–32

No association between chromosome-18 markers and lithium-responsive affective disorders. Turecki G, et al. **Psychiatry Res** 1996 Jun 26;63(1):17–23

Dermatoglyphic a-b ridge count as a possible marker for developmental disturbance in schizophrenia: replication in two samples. Fañanas L, et al. **Schizophr Res** 1996 Jul 5; 20(3):307–14

Spinal muscular atrophy in childhood. Fidziańska A. **Semin Pediatr Neurol** 1996 Jun;3(2):53–8 (31 ref.)

[Epidemiologic and molecular genetic of suicidal behavior] Abbar M, et al. **Encephale** 1996 Dec;22 Spec No 4:19–24 (31 ref.) (Eng. Abstr.) **(Fre)**

[Response to antidepressive drugs: a useful trait marker for genetic characterization of depressed patients?] Canceil O. **Encephale** 1995 Dec;21 Spec No 4:61–3 **(Fre)**

[Genetic susceptibility to malaria in man: contribution of genetic epidemiology (editorial)] Abel L. **Pathol Biol (Paris)** 1995 Nov;43(9):745–8 (19 ref.) **(Fre)**

[Pseudoxanthoma elasticum. Skin changes as a marker of systemic illness] Jacobi H, et al. **Hautarzt** 1997 Mar; 48(3):191–4 (Eng. Abstr.) **(Ger)**

[Detection of differentially expressed genes in head-neck carcinomas] Werner JA, et al. **Laryngorhinootologie** 1997 May;76(5):300–7 (Eng. Abstr.) **(Ger)**

GENETIC RECOMBINATION see **RECOMBINATION, GENETIC**

GENETIC SCREENING

see related
HETEROZYGOTE DETECTION

Diagnosis and prevention of fragile-X syndrome. From the family study to the population screening programme: eighteen years of activity. Giovannucci Uzielli ML, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):303–8

Issues in genetic testing for susceptibility to alcoholism: lessons from Alzheimer's disease and Huntington's disease. Quaid KA, et al. **Alcohol Clin Exp Res** 1996 Nov; 20(8):1430–7 (72 ref.)

Efficacy of a targeted genetic screening program for adolescents [editorial; comment] McCabe L. **Am J Hum Genet** 1996 Oct;59(4):762–3. Comment on: Am J Hum Genet 1996 Oct;59(4):793–8.

Twenty-year outcome analysis of genetic screening programs for Tay-Sachs and beta-thalassemia disease carriers in high schools [see comments] Mitchell JJ, et al. **Am J Hum Genet** 1996 Oct;59(4):793–8. Comment in: Am J Hum Genet 1996 Oct;59(4):762–3.

Questioning the need for anonymous genetic counseling and testing [letter] Uhlmann WR, et al. **Am J Hum Genet** 1996 Oct;59(4):968–70

Genetics and the dead: implications for genetics research with samples from deceased persons. DeRenzo EG, et al. **Am J Med Genet** 1997 Mar 31;69(3):332–4

Developmental tasks of childhood and adolescence: implications for genetic testing. Fanos JH. **Am J Med Genet** 1997 Jul 11;71(1):22–8 (44 ref.)

Molecular fragile X screening in normal populations. Spence WC, et al. **Am J Med Genet** 1996 Jul 12;64(1):181–3

Experiences and attitudes concerning genetic testing and insurance in a Colorado population: a survey of families diagnosed with fragile X syndrome. Wingrove KJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):378–81

Choroid plexus cysts and trisomy 18: risk modification based on maternal age and multiple-marker screening. Gratton RJ, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1493–7

Effect of parity correction on Down syndrome detection by the multiple-marker screening test. Wenstrom KD, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1004–7

From genes to public health: the applications of genetic technology in disease prevention. Genetics Working Group [see comments] Khoury MJ. **Am J Public Health** 1996 Dec; 86(12):1717–22 (58 ref.). Comment in: Am J Public Health 1996 Dec;86(12):1701–4.

Ethical considerations in pulmonary genetic testing and gene therapy. Kimyai-Asadi A, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):3–8

Genetic screening for RET mutations in families with multiple endocrine neoplasia 2 syndromes. Alevizaki M, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:383–8 (23 ref.)

On not jumping the gun: ethical aspects of APOE gene testing for Alzheimer's disease. Post SG. **Ann N Y Acad Sci** 1996 Dec 16;802:111–9

The National Institute on Aging/Alzheimer's Association recommendations on the application of apolipoprotein E genotyping to Alzheimer's disease. Relkin NR, et al. **Ann N Y Acad Sci** 1996 Dec 16;802:149–76

Genetic testing may prevent hereditary nonpolyposis colorectal cancer. Hamilton Fairley Lecture, held at the ESMO Congress, Vienna, November 2–5, 1996. de la Chapelle A. **Ann Oncol** 1996 Nov;7(9):883–5

Screening of the 3' two-thirds of the coding area of the apo B gene in Finnish hypercholesterolemic patients report of six new genetic variants. Ilmonen M, et al. **Atherosclerosis** 1997 Feb 10;128(2):191–9

The impact of antenatal screening for Down syndrome in Western Australia: 1980–1994. O'Leary P, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):385–8

Some public health issues in the current state of genetic testing for breast cancer in Australia [see comments] Hopper JL. **Aust N Z J Public Health** 1996 Oct; 20(5):467–72 (28 ref.). Comment in: Aust N Z J Public Health 1996 Oct;20(5):451–2.

Genetic testing and public health [editorial; comment] Kerr C. **Aust N Z J Public Health** 1996 Oct;20(5):451–2. Comment on: Aust N Z J Public Health 1996 Oct;20(5):467–72.

Public is concerned about gene testing [letter] Brunner EJ, et al. **BMJ** 1997 May 24;314(7093):1552–3

Prenatal screening for carriers of cystic fibrosis should screen both partners individually [letter] de Braekeleer M. **BMJ** 1996 Sep 28;313(7060):820

End to insurers using genetic data urged [news] Richards T. **BMJ** 1996 Oct 5;313(7061):838

Screening for TP53 mutations in patients and tumours from 109 Swedish breast cancer families. Zelada-Hedman M, et al. **Br J Cancer** 1997;75(8):1201–4

Genetic testing is important in families with a history suggestive of hereditary non-polyposis colorectal cancer even if the Amsterdam criteria are not fulfilled [see comments] Beck NE, et al. **Br J Surg** 1997 Feb;84(2):233–7 . Comment in: Br J Surg 1997 Jul;84(7):1027–8.

Ontario Maternal Serum Screening Program: practices, knowledge and opinions of health care providers [see comments] Carroll JC, et al. **Can Med Assoc J** 1997 Mar 15;156(6):775–84. Comment in: Can Med Assoc J 1997 Mar 15;156(6):805–6.

Genetic predisposition testing for breast cancer [letter] Audeh MW. **Cancer J Sci Am** 1997 Jul-Aug;3(4):254–5

Multiple endocrine neoplasia type II and familial medullary thyroid carcinoma. Impact of genetic screening on management. Gagel RF. **Cancer Treat Res** 1997;89:421–41 (74 ref.)

Control of beta-thalassaemia by carrier screening, genetic counselling and prenatal diagnosis: the Sardinian experience. Cao A, et al. **Ciba Found Symp** 1996; 197:137–51; discussion 151–5 (32 ref.)

Simultaneous detection and screening of T833C and G919A mutations of the cystathionine beta-synthase gene by single-strand conformational polymorphism. Tsai MY, et al. **Clin Biochem** 1996 Oct;29(5):473–7

Carrier screening for cystic fibrosis in primary care: evaluation of a project in South Wales. The South Wales Cystic Fibrosis Carrier Screening Research Team. Payne Y, et al. **Clin Genet** 1997 Mar;51(3):153–63

Ethical issues in screening and testing for genetic diseases. Kadlec JV, et al. **Clin Lab Med** 1995 Dec;15(4):989–99 (3 ref.)

The genetics of ovarian cancer: an assessment of current screening protocols and recommendations for counseling families at risk. Bombard AT, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):860–72 (47 ref.)

Population-based carrier screening for cystic fibrosis.

Doksum T, et al. **Clin Obstet Gynecol** 1996 Dec; 39(4):763–71 (28 ref.)

Should all pregnant women be offered carrier testing for fragile X syndrome? Finucane B. **Clin Obstet Gynecol** 1996 Dec;39(4):772–82 (21 ref.)

Breast cancer risk analysis and counseling. Mulvihill JJ, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):851–9 (21 ref.)

Maternal serum screening for fetal Down syndrome: clinical aspects. Saller DN Jr, et al. **Clin Obstet Gynecol** 1996 Dec; 39(4):783–92 (11 ref.)

Maternal serum screening for fetal Down syndrome: the detection of other pathologies. Saller DN Jr, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):793–800 (12 ref.)

Genetic dissection of the retinotectal projection. Baier H, et al. **Development** 1996 Dec;123:415–25

Those elusive molecular diagnostics CPT codes [news] Grody WW, et al. **Diagn Mol Pathol** 1997 Jun;6(3):131–3

Application of genetic screening information to the management of medullary thyroid carcinoma and multiple endocrine neoplasia type 2. Wohllk N, et al. **Endocrinol Metab Clin North Am** 1996 Mar;25(1):1–25 (101 ref.)

Monitoring populations for DNA repair deficiency and for cancer susceptibility. Au WW, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:579–84

Medical and ethical issues in genetic screening—an academic view. Holtzman NA. **Environ Health Perspect** 1996 Oct; 104 Suppl 5:987–90

Informed consent in epidemiologic studies involving genetic markers. Hunter D, et al. **Epidemiology** 1997 Sep;8(5):596–9 (9 ref.)

Early cancer detection programmes for women at high risk for breast and ovarian cancer: a proposal of practical guidelines. Beckmann MW, et al. **Eur J Cancer Prev** 1996 Dec;5(6):468–75 (87 ref.)

Hereditary breast cancer risk: factors associated with the decision to undergo BRCA 1 testing. Gil F. **Eur J Cancer Prev** 1996 Dec;5(6):488–90

Audit of maternal serum screening: strategies to augment counselling in response to women's views. Burn J, et al. **Eur J Hum Genet** 1996;4(2):108–12

Experiences of mothers participating in maternal serum screening for Down's syndrome. Salonen R, et al. **Eur J Hum Genet** 1996;4(2):113–9

Application of genetic screening in families with hereditary medullary thyroid carcinoma. Frank-Raue K, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:108–10

Genetic studies on abnormally located chordae in cardiac cavities. Karnolski I, et al. **Folia Med (Plovdiv)** 1996; 38(3–4):51–4

Genetic testing: the time is now [editorial] Rustgi AK, et al. **Gastroenterology** 1997 Jul;113(1):5

Empirical genomewide significance levels established by whole genome simulations. Sawcer S, et al. **Genet Epidemiol** 1997;14(3):223–9

Ethical issues in genetic testing for Alzheimer's disease. Kahn J. **Geriatrics** 1997 Sep;52 Suppl 2:S30–2

Large-scale screening for factor V Leiden mutation in a north-eastern German population. Schröder W, et al. **Haemostasis** 1996 Sep–Oct;26(5):233–6

Ethical aspects of premarital genetic screening [letter; comment] Henn W. **Hum Hered** 1996 Nov–Dec;46(6):342–3 . Comment on: Hum Hered 1996 Mar–Apr;46(2):112–4.

Trade-off between sibship size and sampling scheme for detecting quantitative trait loci. Todorov AA, et al. **Hum Hered** 1997 Jan–Feb;47(1):1–5

Preimplantation diagnosis in older patients. Of course not. Egozcue J. **Hum Reprod** 1996 Oct;11(10):2077–8

Preimplantation diagnosis in older patients—but of course! [see comments] Munné S, et al. **Hum Reprod** 1997 Mar; 12(3):413–4 (11 ref.). Comment in: Hum Reprod 1997 Apr;12(4):870–1. Comment in: Hum Reprod 1997 Apr;12(4):871.

Preimplantation diagnosis in older patients, To biopsy or not to biopsy? Reubinoff B, et al. **Hum Reprod** 1996 Oct; 11(10):2071–5 (52 ref.)

Preimplantation diagnosis of common aneuploidies in infertile couples of advanced maternal age. Verlinsky Y, et al. **Hum Reprod** 1996 Oct;11(10):2076–7

Delta F 508 molecular mutation in Indian children with cystic fibrosis. Kabra M, et al. **Indian J Med Res** 1996 Dec; 104:355–8

A genetic screen for tumor suppressor genes in the mouse. Bradley A. **Int J Dev Biol** 1996;Suppl 1:59S–60S

Screening of H-ras gene point mutations in 50 cases of bladder carcinoma. Saito S, et al. **Int J Urol** 1997 Mar; 4(2):178–85

Colon cancer and molecular genetics: a short review [editorial; comment] Legum C. **Isr J Med Sci** 1997 Jan; 33(1):63–5 (22 ref.). Comment on: Isr J Med Sci 1997 Jan;33(1):8–13. Comment on: Isr J Med Sci 1997 Jan;33(1):78–9.

Family history of depression in clinic and community samples. Sullivan PF, et al. **J Affect Disord** 1996 Oct 14; 40(3):159–68

Compromised consent: deficiencies in the consent process for genetic testing. Andrews LB. **J Am Med Womens Assoc** 1997 Winter;52(1):39–42, 44 (34 ref.)

Current status of preimplantation diagnosis. Verlinsky Y, et al. **J Assist Reprod Genet** 1997 Feb;14(2):72–5

Teaching efficacy of a medical education module on genetic testing for cancer. Teague KE, et al. **J Cancer Educ** 1996 Winter;11(4):196–202

Screening of candidate oncogenes in human thyrotroph tumors: absence of activating mutations of the G alpha q, G alpha 11, G alpha s, or thyrotropin-releasing hormone receptor genes. Dong Q, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1134–40

Liddle's syndrome: prospective genetic screening and suppressed aldosterone secretion in an extended kindred. Findling JW, et al. **J Clin Endocrinol Metab** 1997 Apr; 82(4):1071–4

Assessing individual risk for breast cancer: risky business. McTiernan A, et al. **J Clin Epidemiol** 1997 May; 50(5):547–56 (60 ref.)

Molecular genetic testing for adult-onset disorders: the evolving laboratory, physician, patient interface. Acton RT. **J Clin Lab Anal** 1997;11(1):23–7 (32 ref.)

BCRA 1 testing guidelines for high-risk patients [letter] Sorscher S, et al. **J Clin Oncol** 1997 Apr;15(4):1711

The influence of psychological distress on use of genetic testing for cancer risk. Lerman C, et al. **J Consult Clin Psychol** 1997 Jun;65(3):414–20

Genetic screening, testing and treatment: how far can we go? Scriver CR. **J Inherit Metab Dis** 1996;19(4):401–11 (33 ref.)

RET mutation screening in familial cutaneous lichen amyloidosis and in skin amyloidosis associated with multiple endocrine neoplasia. Hofstra RM, et al. **J Invest Dermatol** 1996 Aug;107(2):215–8

Predictive genetic testing in children [letter; comment] Berry AC. **J Med Genet** 1996 Sep;33(9):806–7. Comment on: J Med Genet 1996 Apr;33(4):313–8.

Fragile X syndrome is less common than previously estimated. Morton JE, et al. **J Med Genet** 1997 Jan; 34(1):1–5

Preparing for presymptomatic DNA testing for early onset Alzheimer's disease/cerebral haemorrhage and hereditary Pick disease. Tibben A, et al. **J Med Genet** 1997 Jan; 34(1):63–72

Genetic testing in children. Clayton EW. **J Med Philos** 1997 Jun;22(3):233–51 (29 ref.)

Population screening for haemochromatosis: expectations based on a study of relatives of symptomatic probands [see comments] Bradley LA, et al. **J Med Screen** 1996;3(4):171–7 . Comment in: J Med Screen 1996 ;3(4):170.

Population screening for haemochromatosis: a unifying analysis of published intervention trials [see comments] Bradley LA, et al. **J Med Screen** 1996;3(4):178–84. Comment in: J Med Screen 1996 ;3(4):170.

Screening for haemochromatosis [editorial; comment] Edwards CQ. **J Med Screen** 1996;3(4):170. Comment on: J Med Screen 1996 ;3(4):171–7. Comment on: J Med Screen 1996 ;3(4):178–84.

Molecular screening of families affected by familial adenomatous polyposis (FAP). Gazzoli I, et al. **J Med Screen** 1996;3(4):195–9

What is genetic screening? [letter; comment] Harper PS. **J Med Screen** 1996;3(3):165–6. Comment on: J Med Screen 1996;3(2):57.

Empirical validation of risk screening for Down's syndrome. Wald NJ, et al. **J Med Screen** 1996;3(4):185–7

What is genetic screening anyway? [editorial] [see comments] Wald NJ. **J Med Screen** 1996;3(2):57. Comment in: J Med Screen 1996;3(3):165–6.

When your patient asks: "Doctor, I'd like to get the blood test for the breast and ovary cancer gene". Boronow RC. **J Miss State Med Assoc** 1996 Sep;37(9):725–31

Prophylactic cancer surgeries offer no guarantees, uncertain outcomes [news] Holzman D. **J Natl Cancer Inst** 1996 Oct 16;88(20):1428–9

New diagnostic criteria for HNPCC are on the way [news] Kuska B. **J Natl Cancer Inst** 1997 Jan 1;89(1):11–2

Ethical dimensions in genetic screening: a look into the future. Penticuff JH. **J Obstet Gynecol Neonatal Nurs** 1996 Nov–Dec;25(9):785–9 (8 ref.)

Genetic testing data [letter] Uzych L. **J Occup Environ Med** 1996 Jan;38(1):13–4

Genetic testing of children for cancer susceptibility [see comments] Ackerman TF. **J Pediatr Oncol Nurs** 1996 Jan; 13(1):46–9. Comment in: J Pediatr Oncol Nurs 1996 Oct;13(4):194–5.

Genetic testing of children for cancer susceptibility [letter; comment] Uzych L. **J Pediatr Oncol Nurs** 1996 Oct; 13(4):194–5. Comment on: J Pediatr Oncol Nurs 1996 Jan;13(1):46–9.

Screening and the new genetics [letter; comment] Cooper JD, et al. **J Public Health Med** 1997 Mar;19(1):121. Comment on: J Public Health Med 1996 Mar;18(1):3–5.

EUROSCREEN: ethical and philosophical issues of genetic screening in Europe. Chadwick R, et al. **J R Coll Physicians Lond** 1996 Jan–Feb;30(1):67–9

Molecular diagnosis and carrier screening for beta thalassemia. Cao A, et al. **JAMA** 1997 Oct 15; 278(15):1273–7

Prenatal genetic carrier testing using triple disease screening [see comments] Eng CM, et al. **JAMA** 1997 Oct 15; 278(15):1268–72. Comment in: JAMA 1997 Oct 15;278(15):1284–5.

Genetic testing for susceptibility to adult-onset cancer. The process and content of informed consent. Geller G, et al. **JAMA** 1997 May 14;277(18):1467–74 (122 ref.)

Genetic testing in hereditary colorectal cancer [clinical conference] Giardiello FM. **JAMA** 1997 Oct 15; 278(15):1278–81

Genetic testing of families with hereditary diseases [letter; comment] Olopade OI. **JAMA** 1996 Oct 9;276(14):1138–9; discussion 1140. Comment on: JAMA 1996 Jun 26;275(24):1885–92.

Genetic testing and informed consent [letter] Page DL, et al. **JAMA** 1997 Sep 10;278(10):821–2

The clinical introduction of genetic testing for Alzheimer disease. An ethical perspective. Post SG, et al. **JAMA** 1997 Mar 12;277(10):832–6 (75 ref.)

Family history and genetic risk factors: forward to the future [editorial; comment] Pyeritz RE. **JAMA** 1997 Oct 15; 278(15):1284–5. Comment on: JAMA 1997 Oct 15;278(15):1242–50. Comment on: JAMA 1997 Oct 15;278(15):1251–5. Comment on: JAMA 1997 Oct 15;278(15):1262–7. Comment on: JAMA 1997 Oct 15;278(15):1268–72.

Genetic testing of families with hereditary diseases [letter; comment] Thurmon TF. **JAMA** 1996 Oct 9;276(14):1139; discussion 1140. Comment on: JAMA 1996 Jun 26;275(24):1885–92.

Genetic testing for Alzheimer disease [letter] Tracy KB. **JAMA** 1997 Sep 24;278(12):978–9

Genetic testing of families with hereditary diseases [letter; comment] Wexler A. **JAMA** 1996 Oct 9;276(14):1139–40; discussion 1140. Comment on: JAMA 1996 Jun 26;275(24):1885–92.

Genetic screening in hereditary multiple endocrine neoplasia type 1: absence of a founder effect among Japanese families. Sakurai A, et al. **Jpn J Cancer Res** 1996 Sep;87(9):985–94

Psychological consequences of presymptomatic testing for Huntington's disease [letter; comment] Evers-Kiebooms G, et al. **Lancet** 1997 Mar 15;349(9054):808. Comment on: Lancet 1997 Jan 4;349(9044):4.

Genetic counselling before intracytoplasmic sperm injection [letter] In't Veld PA, et al. **Lancet** 1997 Aug 16; 350(9076):490

Psychological consequences of presymptomatic testing for Huntington's disease [letter; comment] Mlynik-Szmid A. **Lancet** 1997 Mar 15;349(9054):808. Comment on: Lancet 1997 Jan 4;349(9044):4.

Psychological consequences of presymptomatic testing for Huntington's disease [letter; comment] Tibben A, et al. **Lancet** 1997 Mar 15;349(9054):809. Comment on: Lancet 1997 Jan 4;349(9044):4.

The social dynamics of genetic testing: the case of Fragile-X. Nelkin D. **Med Anthropol Q** 1996 Dec;10(4):537–50

Using genetic information: a radical problematic for an individualistic framework. Kegley JA. **Med Law** 1996; 15(4):715–20

The PRINS technique: potential use for rapid preimplantation embryo chromosome screening. Pellestor F, et al. **Mol Hum Reprod** 1996 Feb;2(2):135–8

Genetic screening and diagnosis of disease. Moskowitz DW. **Mol Med Today** 1996 Jul;2(7):275

The human serotonin 7 (5-HT7) receptor gene: genomic organization and systematic mutation screening in schizophrenia and bipolar affective disorder. Erdmann J, et al. **Mol Psychiatry** 1996 Nov;1(5):392–7

Scanning the genome with 1772 microsatellite markers in search of a bipolar disorder susceptibility gene. Polymeropoulos MH, et al. **Mol Psychiatry** 1996 Nov; 1(5):404–7

Clinical symptoms and possible anticipation in a large kindred of familial restless legs syndrome. Trenkwalder C, et al. **Mov Disord** 1996 Jul;11(4):389–94

Screening for Leber's hereditary optic neuropathy associated mitochondrial DNA mutations in patients with prominent optic neuritis. Kalman B, et al. **Mult Scler** 1997 Jan; 2(6):279–82

Should we test women for inherited susceptibility to breast cancer? what do NC primary care physicians think. O'Malley MS, et al. **N C Med J** 1997 May–Jun;58(3):176–80

Pitfalls of genetic testing [letter; comment] Bunn HF, et al. **N Engl J Med** 1996 Oct 17;335(16):1236; discussion 1236–7 . Comment on: N Engl J Med 1996 May 2;334(18):1192–4.

Pitfalls of genetic testing [letter; comment] Foulkes WD. **N Engl J Med** 1996 Oct 17;335(16):1235–6; discussion 1236–7. Comment on: N Engl J Med 1996 May 2;334(18):1192–4.

The use and interpretation of commercial APC gene testing for familial adenomatous polyposis [see comments] Giardiello FM, et al. **N Engl J Med** 1997 Mar 20; 336(12):823–7. Comment in: N Engl J Med 1997 Mar 20;336(12):869–70. Comment in: N Engl J Med 1997 Jul 24;337(4):282.

Genetics in clinical cancer care—the future is now [editorial; comment] Olopade OI. **N Engl J Med** 1996 Nov 7; 335(19):1455–6. Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

Genetic screening of adolescents [letter; comment] Spiegler GE. **N Engl J Med** 1997 Aug 28;337(9):639–40. Comment on: N Engl J Med 1997 May 1;336(18):1314–6.

Pitfalls of genetic testing [letter; comment] Stern HJ, et al. **N Engl J Med** 1996 Oct 17;335(16):1235; discussion 1236–7 . Comment on: N Engl J Med 1996 May 2;334(18):1192–4.

Consent, confidentiality, and research [editorial; comment] [see comments] Veatch RM. **N Engl J Med** 1997 Mar 20; 336(12):869–70. Comment on: N Engl J Med 1997 Mar 20;336(12):823–7. Comment in: N Engl J Med 1997 Jul 24;337(4):282.

Do we know the answers to genetic testing? Cornell DH. **N J Med** 1997 Feb;94(2):31–5
Our fate lies in our genes [editorial] Slobodien HD. **N J Med** 1997 Feb;94(2):19–20
Insurers keep genetic test options open. Brower V. **Nat Biotechnol** 1997 Aug;15(8):708–9
Genetic testing: the problems and the promise. Eng C, et al. **Nat Biotechnol** 1997 May;15(5):422–6 (46 ref.)
Ashkenazi Jewish population frequencies for common mutations in BRCA1 and BRCA2. Roa BB, et al. **Nat Genet** 1996 Oct;14(2):185–7
Insurers admit genetic discrimination [news] Birmingham K. **Nat Med** 1997 Jul;3(7):710
Breast cancer susceptibility tests still valid, companies argue [news] Smith O. **Nat Med** 1997 Jul;3(7):709
Keep an eye on genetic screening [editorial] **Nature** 1996 Nov 14;384(6605):93
As concern grows over screening [news] Lehrman S. **Nature** 1996 Nov 28;384(6607):297
Gene testing for cancer susceptibility. Reiser G, et al. **Nebr Med J** 1996 Dec;81(12):416–8 (6 ref.)
Practice parameter: genetic testing alert. Statement of the Practice Committee Genetics Testing Task Force of the American Academy of Neurology. **Neurology** 1996 Nov; 47(5):1343–4
Spinobulbar muscular atrophy can mimic ALS: the importance of genetic testing in male patients with atypical ALS. Parboosingh JS, et al. **Neurology** 1997 Aug; 49(2):568–72
Genetic susceptibility for breast cancer: testing and primary prevention options. Baron RH, et al. **Oncol Nurs Forum** 1997 Apr;24(3):461–8 (55 ref.)
Genetic predisposition testing: clinical implications for oncology nurses. Calzone KA. **Oncol Nurs Forum** 1997 May;24(4):712–8 (44 ref.)
Emotional and behavioral responses to genetic testing for susceptibility to cancer. Lerman C, et al. **Oncology (Huntingt)** 1996 Feb;10(2):191–5, 9; discussion 200–2 (61 ref.)
Medical genetics for the practitioner. Toomey KE. **Pediatr Rev** 1996 May;17(5):163–74 (10 ref.)
Genetic testing for familial hypercholesterolaemia: practical and ethical issues. Humphries SE, et al. **QJM** 1997 Mar; 90(3):169–81 (76 ref.)
Predictive testing and ethical issues [letter] Sher L. **QJM** 1997 Jul;90(7):494
Human genome agreements [letter; comment] Holtzman NA. **Science** 1997 Jan 31;275(5300):602. Comment on: Science 1997 Jan 3;275(5296):22.
Coming to grips with genes and risk [news] Kahn P. **Science** 1996 Oct 25;274(5287):496–8
Genetic information and the workplace: legislative approaches and policy changes. Rothenberg K, et al. **Science** 1997 Mar 21;275(5307):1755–7
Psychological issues in cancer genetics. Biesecker BB. **Semin Oncol Nurs** 1997 May;13(2):129–34 (51 ref.)
Presymptomatic and predisposition genetic testing: ethical and social considerations. Bove CM, et al. **Semin Oncol Nurs** 1997 May;13(2):135–40 (30 ref.)
The oncology nurse's role in cancer risk assessment and counseling. MacDonald DJ. **Semin Oncol Nurs** 1997 May; 13(2):123–8 (21 ref.)
Genetic susceptibility testing [editorial] Greene FL. **Surg Endosc** 1997 May;11(5):411–2
Ethical quandaries in genetic testing. Burnside JW. **Tex Med** 1997 Feb;93(2):46–9
Prenatal diagnosis of compound heterozygous deficiency of protein C by direct detection of the mutation sites [letter] Ido M, et al. **Thromb Haemost** 1996 Aug;76(2):277–8
Screening with monoclonal anti-Fy3 to provide blood for phenotype-matched transfusions for patients with sickle cell disease. Sandler SG, et al. **Transfusion** 1997 Apr; 37(4):393–7
Non-radioactive protein truncation test (nrPTT) for rapid detection of gene mutations. Becker KF, et al. **Trends Genet** 1996 Jul;12(7):250
Genetic accountability and pregnant women. Rothenberg KH. **Womens Health Issues** 1997 Jul–Aug;7(4):215–9 (12 ref.)
[Preimplantation genetic diagnosis. Technical and ethical aspects and international experiences] Laursen SB, et al. **Ugeskr Laeger** 1996 Oct 28;158(44):6248–52 (27 ref.) (Eng. Abstr.) **(Dan)**
[Genetic diagnosis of the embryo before implantation] David G. **Bull Acad Natl Med** 1997 Feb;181(2):261–72; discussion 272–4 (24 ref.) (Eng. Abstr.) **(Fre)**
[Hereditary predispositions to cancer: the genetic diagnosis in practice] Girodet C, et al. **Bull Cancer** 1996 Sep; 83(9):764–8 (33 ref.) (Eng. Abstr.) **(Fre)**
[Attitudes towards screening and prevention of breast and ovarian cancers with hereditary predisposition. Survey by female gynecologists in the north of France] Vennin P, et al. **Bull Cancer** 1996 Sep;83(9):697–702 (Eng. Abstr.) **(Fre)**
[Predictive medicine] Bach JF. **Bull Mem Acad R Med Belg** 1996;151(1):115–21; discussion 121–3 (Eng. Abstr.) **(Fre)**
[Predictive tumor diagnosis in hereditary tumor disposition?] Bartram CR. **Internist (Berl)** 1997 May;38(5):481 **(Ger)**
[Mutational screening using restriction fragment length analysis (RFLA) exemplified by the gene for familial adenomatous polyposis (APC gene)] Hahn M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:65–8 (Eng. Abstr.) **(Ger)**
[HNPCC: difficulties in clinical definition and challenge for molecular biology] Kadmon M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:51–4 (Eng. Abstr.) **(Ger)**
[Genetic screening of head-neck carcinomas using comparative genomic hybridization (CGH)] Bockmühl U, et al. **Laryngorhinootologie** 1996 Jul;75(7):408–14 (Eng. Abstr.) **(Ger)**
[Podium discussion of the gene therapy and heterozygote screening topic] Siegfried W. **Pneumologie** 1996 Dec;50 Suppl 3:873 **(Ger)**
[Genetic mapping--blessing or curse? (editorial)] Modan B. **Harefuah** 1996 Dec 1;131(11):487–8 **(Heb)**
[Bioethics on DNA diagnosis] Fujiki N. **Rinsho Shinkeigaku** 1996 Dec;36(12):1310–1 (Eng. Abstr.) **(Jpn)**
[Genetic examinations in health care] Indulski JA, et al. **Med Pr** 1996;47(5):475–84 (27 ref.) (Eng. Abstr.) **(Pol)**
[Detection of frequent mutations of the CFTR gene in cystic fibrosis patients from Central Russia] Petrova NV, et al. **Genetika** 1997 Jan;33(1):106–9 (Eng. Abstr.) **(Rus)**
[Ethical problems when genetic techniques become clinical routine] Wahlström J, et al. **Lakartidningen** 1997 Sep 3; 94(36):3044–50 **(Swe)**

ADVERSE EFFECTS

Stress and genetic testing for disease risk. Baum A, et al. **Health Psychol** 1997 Jan;16(1):8–19

ECONOMICS

Just caring: the moral and economic costs of APOE genotyping for Alzheimer's disease. Fleck LM. **Ann N Y Acad Sci** 1996 Dec 16;802:128–38
Using willingness to pay to value close substitutes: carrier screening for cystic fibrosis revisited. Donaldson C, et al. **Health Econ** 1997 Mar–Apr;6(2):145–59
[Is mutational analysis in HNPCC based on cDNA reliable and economic?] Vossen S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:59–64 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Genetic predispositions, prophylactic treatments and private health insurance: nothing is better than a good pair of genes. Glazier AK. **Am J Law Med** 1997;23(1):45–68 (149 ref.)
Ethical issues of genetic testing and their implications in epidemiologic studies. Bondy M, et al. **Ann Epidemiol** 1997 Jul;7(5):363–6
Medicolegal, employment, and insurance issues in APOE genotyping and Alzheimer's disease. Kapp MB. **Ann N Y Acad Sci** 1996 Dec 16;802:139–48
The genetic testing of children for cancer susceptibility: ethical, legal, and social issues. Patenaude AF. **Behav Sci Law** 1996 Autumn;14(4):393–410 (70 ref.)
Keeping genetic information under wraps. Palca J. **Hastings Cent Rep** 1997 Mar–Apr;27(2):6
Privacy at risk. Whose? Yours! [editorial] Meskin LH. **J Am Dent Assoc** 1997 Jan;128(1):8, 10
Genetic screening of children: The U.K. position. McLean SA. **J Contemp Health Law Policy** 1995 Fall;12(1):113–30 (54 ref.)
Genetic screening: a comparative analysis of three recent reports. Hoedemaekers R, et al. **J Med Ethics** 1997 Jun; 23(3):135–41
Genetic screening and ethics [letter; comment] Uzych L. **J Med Ethics** 1996 Feb;22(1):53–4. Comment on: J Med Ethics 1994 Jun;20(2):67–8, 92. Comment on: J Med Ethics 1994 Sep;20(3):185–7.
The new genetics: legal and ethical implications for medicine [letter; comment] Lovell RR. **Med J Aust** 1997 Mar 17; 166(6):335. Comment on: Med J Aust 1996 Sep 16;165(6):301–3.
The new genetics: legal and ethical implications for medicine [editorial] [see comments] Skene L, et al. **Med J Aust** 1996 Sep 16;165(6):301–3. Comment in: Med J Aust 1997 Mar 17;166(6):335.
Legislating to preserve women's autonomy during pregnancy. Feitshans IL. **Med Law** 1995;14(5–6):397–412 (40 ref.)
US urged to monitor some genetic tests [news] Wadman M. **Nature** 1997 Feb 6;385(6616):477

METHODS

Newborn screening strategy for cystic fibrosis: a field study in an area with high allelic heterogeneity. Castellani C, et al. **Acta Paediatr** 1997 May;86(5):497–502
Novel mutations and DNA-based screening in non-Jewish carriers of Tay-Sachs disease. Akerman BR, et al. **Am J Hum Genet** 1997 May;60(5):1099–106
Association mapping of disease loci, by use of a pooled DNA genomic screen. Barcellos LF, et al. **Am J Hum Genet** 1997 Sep;61(3):734–47
PCR-based screening for cystic fibrosis carrier mutations in an ethnically diverse pregnant population. Grody WW, et al. **Am J Hum Genet** 1997 Apr;60(4):935–47
Screening for 185delAG in the Ashkenazim. Richards CS, et al. **Am J Hum Genet** 1997 May;60(5):1085–98
55-base pair deletion in certain patients with Gaucher disease complicates screening for common Gaucher alleles. Tayebi N, et al. **Am J Med Genet** 1996 Dec 18;66(3):316–9
The sensitivity of allele-specific polymerase chain reaction can obviate concern of maternal contamination when fetal samples are genotyped for immune cytopenic disorders. Hessner MJ, et al. **Am J Obstet Gynecol** 1997 Feb; 176(2):327–33
Nicked free beta-subunit and Down syndrome screening [letter; comment] Palomaki GE, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1075. Comment on: Am J Obstet Gynecol 1996 Feb;174(2):609–11.
Chemiluminescent detection of factor V Leiden in a routine laboratory. Ballering LA, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):259–62
Randomization tests of disease-marker associations. Morris AP, et al. **Ann Hum Genet** 1997 Jan;61 (Pt 1):49–60
Photosensitization of the yeast Phaffia rhodozyma at a low temperature for screening carotenoid hyperproducing mutants. An GH. **Appl Biochem Biotechnol** 1997 Jun; 66(3):263–8
Genetic testing for familial cancer. Consequences of RET proto-oncogene mutation analysis in multiple endocrine neoplasia, type 2. Learoyd DL, et al. **Arch Surg** 1997 Sep; 132(9):1022–5
Rapid testing for three mutations causing familial defective apolipoprotein B100 in 562 patients with familial hypercholesterolaemia [letter] Talmud PJ, et al. **Atherosclerosis** 1996 Aug 23;125(1):135–7
Rapid screening of transgenic type II and type XI collagen knock-out mice with three-primer PCR. Busler DE, et al. **Biotechniques** 1996 Dec;21(6):1002–4
Improved screening method for recombinant retrovirus producing clones. Havenga M, et al. **Biotechniques** 1996 Dec;21(6):1004–7
High-throughput cDNA screening utilizing a low order neural network filter. Huang GM, et al. **Biotechniques** 1996 Dec;21(6):1110–4
Simplified selection of transgenic Arabidopsis thaliana seed in liquid culture. Nichols KW, et al. **Biotechniques** 1997 Jan;22(1):62–3
PCR-based multiplex method for rapid screening of recombinant bacteria. Schillberg S, et al. **Biotechniques** 1997 Aug;23(2):212–4, 216
Genotyping for human platelet antigen-1 directly from dried blood spots on cards [letter] Hughes D, et al. **Blood** 1996 Oct 15;88(8):3242–3
Rapid mutation screening in type 2A von Willebrand's disease using universal heteroduplex generators. Culpan D, et al. **Br J Haematol** 1997 Mar;96(3):464–9
The genetics of gynaecological malignancy. Eccles DM. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):416–9 (6 ref.)
Screening and detection of gene mutations in Japanese patients with Fabry disease by non-radioactive single-stranded conformation polymorphism analysis. Takata T, et al. **Brain Dev** 1997 Mar;19(2):111–6
Noninvasive screening for prenatal genetic diagnosis. Simpson JL. **Bull World Health Organ** 1995;73(6):799–804 (36 ref.)
Screening for fetal anomalies: old habits, new challenges [editorial; comment] Evans JA. **Can Med Assoc J** 1997 Mar 15;156(6):805–6. Comment on: Can Med Assoc J 1997 Mar 15;156(6):775–84.
Genetic testing for cancer predisposition. Biesecker BB. **Cancer Nurs** 1997 Aug;20(4):285–96; quiz 297–9 (35 ref.)
Inhibition of nonsense-mediated messenger RNA decay in clinical samples facilitates detection of human MSH2 mutations with an in vivo fusion protein assay and conventional techniques. Andreutti-Zaugg C, et al. **Cancer Res** 1997 Aug 1;57(15):3288–93
Mass-spectrometric approaches for DNA-based genetic screening [editorial; comment] Fields GB. **Clin Chem** 1997 Jul;43(7):1108–9. Comment on: Clin Chem 1997 Jul;43(7):1151–8.
DNA testing in familial hypertrophic cardiomyopathy: clinical and laboratory implications. Smart RV, et al. **Clin Genet** 1996 Oct;50(4):169–75
Prenatal diagnosis using fetal cells isolated from maternal peripheral blood: a review. Steele CD, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):801–13 (41 ref.)
Heterozygote screening for Tay-Sachs disease: past successes and future challenges. Natowicz MR, et al. **Curr Opin Pediatr** 1996 Dec;8(6):625–9 (30 ref.)
Genetic screening and testing by induced heteroduplex formation. Wood N, et al. **Electrophoresis** 1996 Jan; 17(1):247–54
Subtyping of D20S85 STR alleles by single-strand conformation polymorphism (SSCP) analysis. Wang W, et al. **Forensic Sci Int** 1997 May 5;86(3):187–92
Cystic Fibrosis in Ukraine: age, origin and tracing of the delta F508 mutation. Livshits LA, et al. **Gene Geogr** 1996 Dec;10(3):219–27
Affected-sib-pair interval mapping and exclusion for complex genetic traits: sampling considerations. Hauser ER, et al. **Genet Epidemiol** 1996;13(2):117–37
Genetic epidemiologic methods to screen for matrilineal inheritance in mitochondrial disorders. Mili F, et al. **Genet Epidemiol** 1996;13(6):605–14
Ultrarapid mutation detection by multiplex, solid-phase chemical cleavage. Rowley G, et al. **Genomics** 1995 Dec 10;30(3):574–82
The phenotype/genotype relation and the current status of genetic screening in hypertrophic cardiomyopathy, Marfan

syndrome, and the long QT syndrome. Burn J, et al. **Heart** 1997 Aug;78(2):110–6 (40 ref.)

Molecular diagnosis of hemophilia A in Chinese patients by an analysis of inversions in the factor VIII gene. Chen YD, et al. **Hematopathol Mol Hematol** 1996;10(1–2):63–7

High throughput parallel analysis of hundreds of patient samples for more than 100 mutations in multiple disease genes. Shuber AP, et al. **Hum Mol Genet** 1997 Mar; 6(3):337–47

Clinically applicable mutation screening in familial hypercholesterolemia. Nissen H, et al. **Hum Mutat** 1996; 8(2):168–77

Preimplantation diagnosis in older patients [letter; comment] Egozcue J. **Hum Reprod** 1997 Apr;12(4):870–1. Comment on: Hum Reprod 1997 Mar;12(3):413–4.

Preimplantation genetic diagnosis today. Handyside AH. **Hum Reprod** 1996 Sep;11 Suppl 1:139–51; discussion 153–5 (37 ref.)

Intracytoplasmic sperm injection combined with preimplantation genetic diagnosis for the prevention of recurrent gestational trophoblastic disease. Reubinoff BE, et al. **Hum Reprod** 1997 Apr;12(4):805–8

Preimplantation diagnosis in older patients [letter; comment] Reubinoff BE, et al. **Hum Reprod** 1997 Apr;12(4):871. Comment on: Hum Reprod 1997 Mar;12(3):413–4.

Analysis for heterozygosity of protein S mRNA: application to genetic screening and family studies in hereditary protein S deficiency. Yamazaki T, et al. **Int J Hematol** 1996 Aug; 64(2):119–25

APOE4 genotyping [letter] Kandel R. **J Am Geriatr Soc** 1997 Sep;45(9):1154–6

APOE4 testing for Alzheimer's disease [letter] Karlawish JH, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1153–4

Gaucher disease: molecular screening of the glucocerebrosidase 1601G and 1601A alleles in Victoria, British Columbia, Canada. Choy FY, et al. **J Med Genet** 1997 Jan;34(1):83–5

Maternal serum total activin A in pregnancies affected with fetal Down's syndrome [letter] Lambert-Messerlian GM, et al. **J Med Screen** 1996;3(4):217

Human adenosine A2a receptor (A2aAR) gene: systematic mutation screening in patients with schizophrenia. Deckert J, et al. **J Neural Transm** 1996;103(12):1447–55

Use of psoralen–coupled nucleotide primers for screening of COL4A5 mutations in Alport syndrome. Netzer KO, et al. **Kidney Int** 1996 Oct;50(4):1363–7

Genetic screening: not just another blood test. Feldman MK. **Minn Med** 1996 Oct;79(10):14–20

Screening the p53 status of human cell lines using a yeast functional assay. Jia LQ, et al. **Mol Carcinog** 1997 Aug; 19(4):243–53

Genes on a chip for tissue expression and HIV study [news] Harby K. **Mol Med Today** 1996 Aug;2(8):317

Two novel (M233T and R278T) presenilin–1 mutations in early–onset Alzheimer's disease pedigrees and preliminary evidence for association of presenilin–1 mutations with a novel phenotype. Kwok JB, et al. **Neuroreport** 1997 Apr 14;8(6):1537–42

DNA diagnosis for the practicing obstetrician. Gupta GK, et al. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):123–42 (74 ref.)

Embryoscopy and early prenatal diagnosis. Reece EA. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):111–21 (24 ref.)

Early and midtrimester genetic amniocenteses. Safety and outcomes. Reece EA. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):71–81 (44 ref.)

Maternal serum screening for fetal genetic disorders. Ross HL, et al. **Obstet Gynecol Clin North Am** 1997 Mar; 24(1):33–47 (51 ref.)

Chorionic villus sampling. Wapner RJ. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):83–110 (142 ref.)

Prenatal diagnosis using fetal cells from the maternal circulation. Lamvu G, et al. **Obstet Gynecol Surv** 1997 Jul; 52(7):433–7 (21 ref.)

Noninvasive first–trimester screening for fetal aneuploidy. Sherer DM, et al. **Obstet Gynecol Surv** 1997 Feb; 52(2):123–9 (89 ref.)

Genetic tests further complicate ovarian cancer controversies [news] **Oncology (Huntingt)** 1996 Oct;10(10):1580, 1585

Leber's hereditary optic neuropathy: historical and contemporary considerations. Kleiner L, et al. **Optom Clin** 1996;5(3–4):77–112 (210 ref.)

Ocular abnormalities in Down syndrome: an analysis of 140 Chinese children. Wong V, et al. **Pediatr Neurol** 1997 May; 16(4):311–4

A survey of the newborn populations in Belgium, Germany, Poland, Czech Republic, Hungary, Bulgaria, Spain, Turkey, and Japan for the G985 variant allele with haplotype analysis at the medium chain Acyl–CoA dehydrogenase gene locus: clinical and evolutionary consideration. Tanaka K, et al. **Pediatr Res** 1997 Feb; 41(2):201–9

Prenatal diagnosis of a deletion of 18q in a fetus associated with multiple–marker screen positive results. Chen CP, et al. **Prenat Diagn** 1997 Jun;17(6):571–6

First–trimester urine free beta hCG, beta core, and total oestriol in pregnancies affected by Down's syndrome: implications for first–trimester screening with nuchal translucency and serum free beta hCG. Spencer K, et al. **Prenat Diagn** 1997 Jun;17(6):525–38

Matrix–assisted laser desorption/ionization time–of–flight mass spectrometry as a rapid screening method to detect mutations causing Tay–Sachs disease. Srinivasan JR, et al. **Rapid Commun Mass Spectrom** 1997;11(10):1144–50

Predisposition testing for breast and ovarian cancer susceptibility. Calzone KA. **Semin Oncol Nurs** 1997 May; 13(2):82–90 (61 ref.)

Frequency of alpha–thalassemia–1 of the Southeast Asian–type among pregnant women in northern Thailand determined by PCR technique. Kitsirisakul B, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):362–3

Detection of the factor V Leiden using SSCP [letter] Margaglione M, et al. **Thromb Haemost** 1996 Nov; 76(5):814–5

A colorimetric minisequencing assay for the mutation in codon 506 of the coagulation factor V gene. Sitbon G, et al. **Thromb Haemost** 1997 Apr;77(4):701–3

Genetic diagnosis of dysplasminogenemia: detection of an Ala601–Thr mutation in 118 out of 125 families and identification of a new Asp676–Asn mutation. Tsutsumi S, et al. **Thromb Haemost** 1996 Aug;76(2):135–8

[The preimplantation diagnosis of genetic defects] Delimitreva SM, et al. **Akush Ginekol (Sofiia)** 1996; 35(4):25–7 (41 ref.) **(Bul)**

[Importance of the DIRVISH technique for detecting microdeletions] Maarek O, et al. **Ann Genet** 1996; 39(3):173–5 (Eng. Abstr.) **(Fre)**

[Which genetic tests in infertile men?] Jalbert P. **Contracept Fertil Sex** 1996 Jul–Aug;24(7–8):585–8 (17 ref.) (Eng. Abstr.) **(Fre)**

[Predictive oncology and familial breast cancer] Pescia G, et al. **Rev Med Suisse Romande** 1997 Aug;117(8):603–6 (10 ref.) **(Fre)**

[TUB9 polymorphism in the CFTR gene of cystic fibrosis patients, carriers, and healthy donors from the Moscow region. SSCP and restriction analyses] Amosenko FA, et al. **Genetika** 1997 Feb;33(2):257–61 (Eng. Abstr.) **(Rus)**

[The "Indian deletion" in the hypervariable segment II of mitochondrial DNA is absent in representatives of the native population of Northeastern Asia] Derenko MV, et al. **Genetika** 1996 Jun;32(6):854–5 (Eng. Abstr.) **(Rus)**

[Molecular–genetic screening of Siberian swine populations: local breeds are not burdened with a genetic load of malignant hyperthermia] Kniazev SP, et al. **Genetika** 1996 Oct;32(10):1423–5 (Eng. Abstr.) **(Rus)**

NURSING

Commentary: patient counseling and education. Mahon SM. **Oncol Nurs Forum** 1997 May;24(4):635–6

ORGANIZATION & ADMINISTRATION

Cancer Genetics Network gets under way with 5 years of funding [news] Nelson N. **J Natl Cancer Inst** 1997 Jan 1; 89(1):10–1

Sickle cell screening policies as portent: how will the human genome project affect public sector genetic services? Phoenix DD, et al. **J Natl Med Assoc** 1995 Nov; 87(11):807–12

Facility develops program for increasing identification of families with a hereditary predisposition to malignancy. Mahon SM. **Oncol Nurs Forum** 1996 Oct;23(9):1483–4

Pre–marriage prevention of thalassaemia: report of a 100,000 case experience in Isfahan. Ghanei M, et al. **Public Health** 1997 May;111(3):153–6

PSYCHOLOGY

Screening and diagnosis for the fragile X syndrome among the mentally retarded: an epidemiological and psychological survey. Collaborative Fragile X Study Group. de Vries BB, et al. **Am J Hum Genet** 1997 Sep; 61(3):660–7

BRCA1 in the family: a case description of the psychological implications. DudokdeWit AC, et al. **Am J Med Genet** 1997 Jul 11;71(1):63–71

Genetic testing for breast cancer susceptibility: awareness and interest among women in the general population. Tambor ES, et al. **Am J Med Genet** 1997 Jan 10;68(1):43–9

Genetic susceptibility testing. A therapeutic illusion [editorial; comment] Freedman TG. **Cancer** 1997 Jun 1; 79(11):2063–5; discussion 2066. Comment on: Cancer 1997 Jun 1;79(11):2219–28.

Psychological opportunities and hazards in predictive genetic testing for cancer risk. Codori AM. **Gastroenterol Clin North Am** 1997 Mar;26(1):19–39 (118 ref.)

5th European Meeting on Psychosocial Aspects of Genetics. Rome, Italy, September 26–28, 1996. Abstracts. **Genet Couns** 1997;8(2):147–86

"Decoding" informed consent. Insights from women regarding breast cancer susceptibility testing. Geller G, et al. **Hastings Cent Rep** 1997 Mar–Apr;27(2):28–33

Stress and genetic testing for disease risk. Baum A, et al. **Health Psychol** 1997 Jan;16(1):8–19

Predictors of psychological adjustment to genetic testing for Huntington's disease. Codori AM, et al. **Health Psychol** 1997 Jan;16(1):36–50

Psychological responses to BRCA1 mutation testing: preliminary findings. Croyle RT, et al. **Health Psychol** 1997 Jan;16(1):63–72

Incorporating biomarkers of exposure and genetic susceptibility into smoking cessation treatment: effects on smoking–related cognitions, emotions, and behavior change. Lerman C, et al. **Health Psychol** 1997 Jan; 16(1):87–99

Long–term cognitive and emotional impact of genetic testing for carriers of cystic fibrosis: the effects of test result and gender. Marteau TM, et al. **Health Psychol** 1997 Jan; 16(1):51–62

Three–year follow–up after presymptomatic testing for Huntington's disease in tested individuals and partners. Tibben A, et al. **Health Psychol** 1997 Jan;16(1):20–35

Correlates of psychologic distress in colorectal cancer patients undergoing genetic testing for hereditary colon cancer. Vernon SW, et al. **Health Psychol** 1997 Jan; 16(1):73–86

Hereditary cancer risk notification and testing: how interested is the general population? Andrykowski MA, et al. **J Clin Oncol** 1997 May;15(5):2139–48

Parents' responses to predictive genetic testing in their children [letter; comment] Clarke A. **J Med Genet** 1997 Feb;34(2):174–5. Comment on: J Med Genet 1994 Oct;31(10):743. Comment on: J Med Genet 1994 Oct;31(10):785–97. Comment on: J Med Genet 1996 Apr;33(4):313–8.

Prediction of psychological functioning one year after the predictive test for Huntington's disease and impact of the test result on reproductive decision making. Decruyenaere M, et al. **J Med Genet** 1996 Sep;33(9):737–43

Attitudes towards cancer predictive testing and transmission of information to the family. Julian–Reynier C, et al. **J Med Genet** 1996 Sep;33(9):731–6

Attitudes towards bipolar disorder and predictive genetic testing among patients and providers. Smith LB, et al. **J Med Genet** 1996 Jul;33(7):544–9

Attitudes to predictive DNA testing in familial adenomatous polyposis. Whitelaw S, et al. **J Med Genet** 1996 Jul; 33(7):540–3

Genetic testing for susceptibility to breast cancer: findings from women's focus groups. Tessaro I, et al. **J Womens Health** 1997 Jun;6(3):317–27

Few psychological consequences of presymptomatic testing for Huntington disease [see comments] Bundey S. **Lancet** 1997 Jan 4;349(9044):4. Comment in: Lancet 1997 Mar 15;349(9054):808. Comment in: Lancet 1997 Mar 15;349(9054):809.

Genetic testing and counseling in familial adenomatous polyposis. Petersen GM. **Oncology (Huntingt)** 1996 Jan; 10(1):89–94; discussion 97–8 (25 ref.)

Benefits and burdens of genetic carrier identification. Williams JK, et al. **West J Nurs Res** 1997 Feb;19(1):71–81

Attitudes toward genetic carrier screening for cystic fibrosis among pregnant women: the role of health beliefs and avoidant coping style. Fang CY, et al. **Womens Health** 1997 Spring;3(1):31–51

STANDARDS

Reference ranges of normal blood catalase activity and levels in familial hypocatalasemia in Hungary. Vitai M, et al. **Clin Chim Acta** 1997 May 6;261(1):35–42

Standards of care and ethical concerns in genetic testing and screening. Parker LS, et al. **Clin Obstet Gynecol** 1996 Dec; 39(4):873–84 (41 ref.)

Resource document for curriculum development in cancer genetics education. American Society of Clinical Oncology. **J Clin Oncol** 1997 May;15(5):2157–69

Screening and the new genetics: a public health perspective on the ethical debate [letter; comment] Campbell H, et al. **J Public Health Med** 1996 Dec;18(4):485–6. Comment on: J Public Health Med 1996 Mar;18(1):3–5.

Confidential enquiry into counselling for genetic disorders. Harris R, et al. **J R Coll Physicians Lond** 1996 Jul–Aug; 30(4):316–7

The genetic aspects of medullary thyroid carcinoma: recognition and management. Williamson P, et al. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):443–7

Predisposition genetic testing for late–onset disorders in adults. A position paper of the National Society of Genetic Counselors. McKinnon WC, et al. **JAMA** 1997 Oct 15; 278(15):1217–20

British guidelines set out standards for genetic tests [news] **Nature** 1997 Oct 2;389(6650):427

FDA resists regulatory role in gene tests [news] Wadman M. **Nature** 1996 Nov 14;384(6605):101

Are we ready to screen for inherited susceptibility to cancer? Holtzman NA. **Oncology (Huntingt)** 1996 Jan;10(1):57–64; discussion 67 (65 ref.)

Gene tests get tested [news] Marshall E. **Science** 1997 Feb 7;275(5301):782

TRENDS

Genetic screening and public health [editorial; comment] Holtzman NA. **Am J Public Health** 1997 Aug;87(8):1275–7 . Comment on: Am J Public Health 1997 Aug;87(8):1280–8.

Diagnostic molecular pathology in the twenty–first century. Kiechle FL. **Clin Lab Med** 1996 Mar;16(1):213–22 (84 ref.)

Medical genetics. Caskey CT. **JAMA** 1997 Jun 18; 277(23):1869–70

UTILIZATION

Myriad's rationale for wider testing [news] Birmingham K. **Nat Med** 1997 Jul;3(7):709

GENETIC SCREENING

VETERINARY

Genetic monitoring of inbred rodents from controlled production colonies through biochemical markers and skin grafting procedures. Whitmore SP, et al. **Lab Anim Sci** 1996 Oct;46(5):585–8

Genetic screening of dogs [letter; comment] Binns M, et al. **Vet Rec** 1996 Oct 12;139(15):375–6. Comment on: Vet Rec 1996 Aug 17;139(7):171.

Genetic screening of dogs [letter; comment] Leonard BW. **Vet Rec** 1996 Sep 7;139(10):243. Comment on: Vet Rec 1996 Aug 17;139(7):171.

Genetic screening of dogs [letter] [see comments] Skipper A. **Vet Rec** 1996 Aug 17;139(7):171. Comment in: Vet Rec 1996 Sep 7;139(10):243. Comment in: Vet Rec 1996 Oct 12;139(15):375–6.

GENETIC TECHNIQUES

see related

CHROMOSOMES, YEAST ARTIFICIAL

Dynamics of chromosome spreading. Spurbeck JL, et al. **Am J Med Genet** 1996 Feb 2;61(4):387–93

Transmission electron microscopy of chromosomes by longitudinal section preparation: application to fragile X chromosome analysis. Wen GY, et al. **Am J Med Genet** 1997 Feb 11;68(4):445–9

Nicked free beta-subunit and Down syndrome screening [letter; comment] Palomaki GE, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1075. Comment on: Am J Obstet Gynecol 1996 Feb;174(2):609–11.

Rapid diagnostic tests for tuberculosis: what is the appropriate use? American Thoracic Society Workshop [see comments] **Am J Respir Crit Care Med** 1997 May; 155(5):1804–14. Comment in: Am J Respir Crit Care Med 1997 May;155(5):1497–8.

Rapid diagnostic tests for tuberculosis: progress but no gold standard [editorial; comment] Barnes PF. **Am J Respir Crit Care Med** 1997 May;155(5):1497–8. Comment on: Am J Respir Crit Care Med 1997 May;155(5):1804–14.

The development of beta-lactamase as a highly versatile genetic reporter for eukaryotic cells. Moore JT, et al. **Anal Biochem** 1997 May 1;247(2):203–9

New genetic techniques for group B streptococci: high-efficiency transformation, maintenance of temperature-sensitive pWV01 plasmids, and mutagenesis with Tn917. Framson PE, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3539–47

Amplified restriction fragment length polymorphism-based mRNA fingerprinting using a single restriction enzyme that recognizes a 4-bp sequence. Habu Y, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):516–21

Developmental expression of morphoregulatory genes in the mouse embryo: an analytical approach using a novel technology. Craig JC, et al. **Biochem Mol Med** 1997 Apr; 60(2):81–91

Identification of a cotton fiber-specific acyl carrier protein cDNA by differential display. Song P, et al. **Biochim Biophys Acta** 1997 Apr 10;1351(3):305–12

EST! EST!! EST!!! Hartl DL. **Bioessays** 1996 Dec; 18(12):1021–3 (13 ref.)

Molecular diagnosis of microbial infections. Blum HE. **Biologicals** 1996 Sep;24(3):193–5 (10 ref.)

Cytogenetic and molecular detection of genetic mutations in human tumours. Le Beau MM. **Biologicals** 1996 Sep; 24(3):189–91 (10 ref.)

An improved method for preparing the chromosomes of pines and other gymnosperms. Murray BG, et al. **Biotech Histochem** 1996 May;71(3):115–7

Simple 5' extension method allowing transcript discrimination. Breda C, et al. **Biotechniques** 1996 Jan; 20(1):24–6

Increased efficiency in screening large numbers of cDNA fragments generated by differential display. Corton JC, et al. **Biotechniques** 1997 May;22(5):802–4, 806, 808 passim

Simple method for adapting DNA fragments and PCR products to all of the commonly used restriction sites. Tsang TC, et al. **Biotechniques** 1996 Jan;20(1):51–2

Molecular diagnosis, detection of drug resistance and epidemiology of tuberculosis. Drobniewski FA, et al. **Br J Hosp Med** 1996 Sep 4–17;56(5):204–8 (22 ref.)

Genes in diagnosis and therapy. Kinnon C. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):132–5 (14 ref.)

The genetics of complex ophthalmic disorders. Evans K, et al. **Br J Ophthalmol** 1996 Aug;80(8):763–8 (104 ref.)

Apoptotic morphology of dentate gyrus granule cells following experimental cortical impact injury in rats: possible role in spatial memory deficits. Colicos MA, et al. **Brain Res** 1996 Nov 11;739(1-2):120–31

Assessing the estrogenic and dioxin-like activities of chemicals and complex mixtures using in vitro recombinant receptor-reporter gene assays. Balaguer P, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):216–22

Molecular cytogenetic characterization of cancer cell alterations. Popescu NC, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):10–21 (109 ref.)

Identification of genes differentially expressed in association with metastatic potential of K-1735 murine melanoma by messenger RNA differential display. Hashimoto Y, et al. **Cancer Res** 1996 Nov 15;56(22):5266–71

Identification and quantitation of human chromosomes by primed in situ synthesis. Gosden JR. **Chromosome Res** 1996 Aug;4(5):331–4

Chromosome microdissection and microcloning. Saitoh Y, et al. **Chromosome Res** 1997 Apr;5(2):77–80

Molecular diagnosis of genetic diseases. Ferrari M, et al. **Clin Biochem** 1996 Jun;29(3):201–8 (52 ref.)

Methods for detection of point mutations: performance and quality assessment. IFCC Scientific Division, Committee on Molecular Biology Techniques. Nollau P, et al. **Clin Chem** 1997 Jul;43(7):1114–28 (99 ref.)

The role of molecular diagnostics in the clinical microbiology laboratory. Baselski VS. **Clin Lab Med** 1996 Mar; 16(1):49–60 (37 ref.)

qValue--a program to calculate comparative measures of genomic reorganisation from cytogenetic and/or linkage information. Law AS, et al. **Comput Appl Biosci** 1996 Jun; 12(3):181–3

Practical methods of mutation detection. Mashal RD, et al. **Curr Opin Genet Dev** 1996 Jun;6(3):275–80 (39 ref.)

Genetics of kidney development. Ekblom P. **Curr Opin Nephrol Hypertens** 1996 May;5(3):282–7 (37 ref.)

Molecular diagnosis of lymphoma. Veronese ML, et al. **Curr Opin Oncol** 1996 Sep;8(5):346–52 (44 ref.)

Calculations of nucleic acid conformations. Louise-May S, et al. **Curr Opin Struct Biol** 1996 Jun;6(3):289–98 (89 ref.)

In vitro selection of aptamers: the dearth of pure reason. Uphoff KW, et al. **Curr Opin Struct Biol** 1996 Jun; 6(3):281–8 (51 ref.)

Chromosome microdissection: a brief overview. Cannizzaro LA. **Cytogenet Cell Genet** 1996;74(3):157–60 (36 ref.)

Specimen stability for DNA-based diagnostic testing. Farkas DH, et al. **Diagn Mol Pathol** 1996 Dec;5(4):227–35

Garbage in–garbage out [editorial] Farkas DH. **Diagn Mol Pathol** 1996 Dec;5(4):225–6

Molecular pathology 1995. Birth of an association [meeting report] Lovell MA, et al. **Diagn Mol Pathol** 1996 Mar; 5(1):1–2

Trapping of mammalian promoters by Cre-lox site-specific recombination. Fukushige S, et al. **DNA Res** 1996 Apr 30; 3(2):73–80

Analysis of DNA single-strand breaks in human venous blood: a technique which does not require isolation of white blood cells. Hengstler JG, et al. **Environ Mol Mutagen** 1997; 29(1):58–62

Toward genome-wide scanning of gene expression: a functional aspect of the Genome Project. Ito T, et al. **Essays Biochem** 1996;31:11–21 (9 ref.)

Gene transfer into the glomerulus by the hemagglutinating virus of Japan–liposome method. Imai E, et al. **Exp Nephrol** 1997 Mar–Apr;5(2):112–7 (30 ref.)

Diagnosis of Wilson's disease using DNA linkage analysis [letter] Smith HL. **Gastroenterology** 1996 Jun;110(6):2025–6

Variation in transformation frequencies among six common wheat cultivars through particle bombardment of scutellar tissues. Takumi S, et al. **Genes Genet Syst** 1997 Apr; 72(2):63–9

The autosomal FLP-DFS technique for generating germline mosaics in Drosophila melanogaster. Chou TB, et al. **Genetics** 1996 Dec;144(4):1673–9

A method of estimating the numbers of human and mouse immunoglobulin V-genes. Johnson G, et al. **Genetics** 1997 Mar;145(3):777–86

Normalization and subtraction: two approaches to facilitate gene discovery. Bonaldo MF, et al. **Genome Res** 1996 Sep; 6(9):791–806

Single-nucleotide polymorphism identification assays using a thermostable DNA polymerase and delayed extraction MALDI-TOF mass spectrometry. Haff LA, et al. **Genome Res** 1997 Apr;7(4):378–88

Identification of a novel human kinesin-related gene (HK2) by the cDNA differential display technique. Debernardi S, et al. **Genomics** 1997 May 15;42(1):67–73

Short tandem repeat typing by capillary array electrophoresis: comparison of sizing accuracy and precision using different buffer systems. Vainer M, et al. **Genomics** 1997 Apr 1;41(1):1–9

Genetic approaches to the function of insulin-like growth factor-binding proteins during rodent development. Pintar JE, et al. **Horm Res** 1996;45(3-5):172–7 (60 ref.)

How to select and interpret molecular strain typing methods for epidemiological studies of bacterial infections: a review for healthcare epidemiologists. Molecular Typing Working Group of the Society for Healthcare Epidemiology of America. Tenover FC, et al. **Infect Control Hosp Epidemiol** 1997 Jun;18(6):426–39 (75 ref.)

A comparison of three methods for isolating RNA from mosquitoes. Noriega FG, et al. **Insect Mol Biol** 1993; 2(1):21–4

Transgenic technology: principles. Märki U, et al. **Int J Exp Pathol** 1996 Dec;77(6):247–50 (8 ref.)

Transgenic technology: an introduction. Rülicke T. **Int J Exp Pathol** 1996 Dec;77(6):243–5 (0 ref.)

Molecular genetic approaches to parasite identification: their value in diagnostic parasitology and systematics. McManus DP, et al. **Int J Parasitol** 1996 Jul;26(7):687–704 (151 ref.)

Clinical molecular genetic testing. Brzustowicz LM, et al. **J Am Med Womens Assoc** 1997 Winter;52(1):11–5 (21 ref.)

Apparent and real recombination frequencies in multicopy plasmids: the need for a novel approach in frequency determination. Chédin F, et al. **J Bacteriol** 1997 Feb; 179(3):754–61

Detection of a proliferation specific gene during development of the osteoblast phenotype by mRNA differential display. Ryoo HM, et al. **J Cell Biochem** 1997 Jan;64(1):106–16

Neuroimaging and genetic assessment for early diagnosis of Alzheimer's disease. Small GW. **J Clin Psychiatry** 1996;57 Suppl 14:9–13 (41 ref.)

Recognition of genes in human DNA sequences. Gelfand MS, et al. **J Comput Biol** 1996 Summer;3(2):223–34

A simple method to reveal possible ras mutations in DNA of urinary sediment cells. Cristaudo A, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2-3):201–4

Role of genetic engineering in medicine [letter] Gulati S. **J Indian Med Assoc** 1995 Oct;93(10):398

Expression of an adenovirally encoded lymphotoxin-beta inhibitor prevents clearance of Listeria monocytogenes in mice. Trüeb R, et al. **J Inflamm** 1995;45(4):239–47

Comparative evaluation of three assays for the quantitation of human immunodeficiency virus type 1 RNA in plasma. Coste J, et al. **J Med Virol** 1996 Dec;50(4):293–302

Guided evolution of enzymes with new substrate specificities. el Hawrani AS, et al. **J Mol Biol** 1996 Nov 22;264(1):97–110

Identification of transcriptionally regulated mRNAs from mouse Schwann cell precursors using modified RNA fingerprinting methods. Zoidl G, et al. **J Neurosci Res** 1997 Jul 1;49(1):32–42

The genetic testing of children [editorial] Fryer A. **J R Soc Med** 1997 Aug;90(8):419–21

Assays for investigating transcription by RNA polymerase II in vitro. Reines D, et al. **Methods** 1997 Jul;12(3):192–202 (75 ref.)

Use of single-cycle analysis to study rates and mechanisms of retroviral mutation. Yu H, et al. **Methods** 1997 Aug; 12(4):325–36 (62 ref.)

Gene identification using the yeast two-hybrid system. Bai C, et al. **Methods Enzymol** 1996;273:331–47 (17 ref.)

Genetic tests which identify the principal defects in CYP2C19 responsible for the polymorphism in mephenytoin metabolism. Goldstein JA, et al. **Methods Enzymol** 1996;272:210–8

Vectors with bidirectional reporter genes for studying divergent promoters. Jain VK. **Methods Enzymol** 1996; 273:319–31 (25 ref.)

Methods for double detection of gene expression. Combined in situ hybridization and immunocytochemistry or histochemistry. Conlon RA. **Methods Mol Biol** 1997; 63:271–4

Alternative yeast two-hybrid systems. The interaction trap and interaction mating. Golemis EA, et al. **Methods Mol Biol** 1997;63:197–218

Application of micromechanical piercing structures for genetic transformation of nematodes. Hashmi S, et al. **Methods Mol Biol** 1997;62:393–8

Analysis of heterologous gene expression in Xenopus blastomeres. Moody SA. **Methods Mol Biol** 1997;62:271–84

Expression of exogenous genes in Xenopus oocytes, eggs, and embryos. Shiokawa K, et al. **Methods Mol Biol** 1997; 62:247–70

Meiotic analysis. Spencer JF, et al. **Methods Mol Biol** 1996; 53:51–8 (9 ref.)

Yeast GAL4 two-hybrid system. A genetic system to identify proteins that interact with a target protein. Zhu L. **Methods Mol Biol** 1997;63:173–96

Detection of single copy gene sequences from single trypanosomes. MacLeod A, et al. **Mol Biochem Parasitol** 1997 Feb;84(2):267–70

A simple assay for optimizing yeast-mammalian cell fusion conditions. Markie D. **Mol Biotechnol** 1996 Oct;6(2):99–104

The nuclear membrane integrity assay. Czubryt MP, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):97–102

DNA antisense strategies in the study of receptors for vasoactive peptides, and of growth and wound-healing factors. D'Orléans-Juste P, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):199–211 (77 ref.)

Mild RIP-an alternative method for in vivo mutagenesis of the albino-3 gene in Neurospora crassa. Barbato C, et al. **Mol Gen Genet** 1996 Sep 25;252(4):353–61

Measuring the toxic effects of high gene dosage on yeast cells. Daniel J. **Mol Gen Genet** 1996 Dec 13;253(3):393–6

Differential display to identify and isolate novel genes expressed during spermatogenesis. Catalano RD, et al. **Mol Hum Reprod** 1997 Mar;3(3):215–21

A blind testing design for authenticating ancient DNA sequences. Yang H, et al. **Mol Phylogenet Evol** 1997 Apr; 7(2):261–5

Biotechnology, bioremediation, and blue genes. Bialy H. **Nat Biotechnol** 1997 Feb;15(2):110

Whitehead consortium to develop new genome tools [news] Brower V. **Nat Biotechnol** 1997 Jun;15(6):502–3

Clearing the way for ribozymes [news] Burke JM. **Nat Biotechnol** 1997 May;15(5):414–5

Metabolic engineering and human disease. Yarmush ML, et al. **Nat Biotechnol** 1997 Jun;15(6):525–8 (32 ref.)

Looms to weave genomic nets [news; comment] Brent R. **Nat Genet** 1997 Jul;16(3):216–7. Comment on: Nat Genet 1997 Jul;16(3):277–81.

Use of a cDNA microarray to analyse gene expression patterns in human cancer [see comments] DeRisi J, et al. **Nat Genet** 1996 Dec;14(4):457–60. Comment in: Nat Genet 1996 Dec;14(4):367–70.

Toward a functional analysis of the yeast genome through exhaustive two-hybrid screens [see comments] Fromont-Racine M, et al. **Nat Genet** 1997 Jul;16(3):277–82 . Comment in: Nat Genet 1997 Jul;16(3):216–7.

Functional genomics in mice by tagged sequence mutagenesis. Hicks GG, et al. **Nat Genet** 1997 Aug; 16(4):338–44

Quantitative phenotypic analysis of yeast deletion mutants using a highly parallel molecular bar–coding strategy [see comments] Shoemaker DD, et al. **Nat Genet** 1996 Dec; 14(4):450–6. Comment in: Nat Genet 1996 Dec;14(4):367–70.

To test, or not to test? [letter] Frank TS. **Nat Med** 1997 Apr; 3(4):366

'No consensus' on FDA role in gene tests [news] Wadman M. **Nature** 1997 Apr 10;386(6625):531

Complementary strand analysis: a new approach for allelic separation in complex polyallelic genetic systems. Arguello R, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2236–8

Targeted expression of Cre recombinase to adipose tissue of transgenic mice directs adipose–specific excision of loxP–flanked gene segments. Barlow C, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2543–5

A simple method for 3'–labeling of RNA. Huang Z, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4360–1

A method for linking yeast artificial chromosomes. Larin Z, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4192–6

A quantitative and specific method for measuring transcript levels of highly homologous genes. Lombardo AJ, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4812–6

Efficient Cre–lox linearisation of BACs: applications to physical mapping and generation of transgenic animals. Mullins LJ, et al. **Nucleic Acids Res** 1997 Jun 15; 25(12):2539–40

Isolation of rare transcripts by representational difference analysis. O'Neill MJ, et al. **Nucleic Acids Res** 1997 Jul 1; 25(13):2681–2

Efficient combination of large DNA in vitro: in gel site specific recombination (IGSSR) of PAC fragments containing alpha satellite DNA and the human HPRT gene locus. Schindelhauer D, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2241–3

Determining mutational fingerprints at the human p53 locus with a yeast functional assay: a new tool for molecular epidemiology. Inga A, et al. **Oncogene** 1997 Mar 20; 14(11):1307–13

RNA fingerprinting by arbitrarily primed PCR. McClelland M, et al. **PCR Methods Appl** 1994 Aug;4(1):S66–81 (33 ref.)

Protocols for trapping internal and 3'–terminal exons. Nisson PE, et al. **PCR Methods Appl** 1994 Aug;4(1):S24–39 (30 ref.)

Rapid RNA isolation without the use of commercial kits: application to small tissue samples. Gauthier ER, et al. **Pflugers Arch** 1997 Mar;433(5):664–8

Development of a simple transient assay for Ac/Ds activity in cells of intact barley tissue. McElroy D, et al. **Plant J** 1997 Jan;11(1):157–65

Single–site manipulation of tomato chromosomes in vitro and in vivo using Cre–lox site–specific recombination. Stuurman J, et al. **Plant Mol Biol** 1996 Dec;32(5):901–13

Comparison of the activities of CaMV 35S and FMV 34S promoter derivatives in Catharanthus roseus cells transiently and stably transformed by particle bombardment. van der Fits L, et al. **Plant Mol Biol** 1997 Mar;33(5):943–6

Microdissection and DOP–PCR–based reverse chromosome painting as a fast and reliable strategy in the analysis of various structural chromosome abnormalities. Müller–Navia J, et al. **Prenat Diagn** 1996 Oct;16(10):915–22

Prenatal diagnosis of a half–cryptic translocation using chromosome microdissection. Senger G, et al. **Prenat Diagn** 1997 Apr;17(4):369–74

Discovery and analysis of inflammatory disease–related genes using cDNA microarrays. Heller RA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2150–5

DNA typing in thirty seconds with a microfabricated device. Schmalzing D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10273–8

DNA excision repair assays. Mu D, et al. **Prog Nucleic Acid Res Mol Biol** 1997;56:63–81 (91 ref.)

Genetic analysis of complex disease [letter; comment] Bell DA, et al. **Science** 1997 Feb 28;275(5304):1327–8; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

Dynamic molecular combing: stretching the whole human genome for high–resolution studies. Michalet X, et al. **Science** 1997 Sep 5;277(5331):1518–23

Genetic analysis of complex diseases [letter; comment] Müller–Myhsok B, et al. **Science** 1997 Feb 28; 275(5304):1328–9; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

Genetic analysis of complex diseases [letter; comment] Scott WK, et al. **Science** 1997 Feb 28;275(5304):1327; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

Applications of genetic technologies to cancer screening, prevention, diagnosis, prognosis, and treatment. Peters JA. **Semin Oncol Nurs** 1997 May;13(2):74–81 (45 ref.)

Molecular biology and the pediatric surgeon: definitions and basic methodology. Tagge EP, et al. **Semin Pediatr Surg** 1996 Aug;5(3):139–48 (20 ref.)

Genetics, reproductive technologies, euthanasia and the search for a new societal paradigm [editorial] Somerville MA. **Soc Sci Med** 1996 Jun;42(12):ix–xii

Genetic diagnosis of factor V Leiden using heteroduplex technology. Bowen DJ, et al. **Thromb Haemost** 1997 Jan; 77(1):119–22

Oligonucleotide ligation assay for detection of the factor V mutation (Arg506—>Gln) causing protein C resistance. Benson JM, et al. **Thromb Res** 1996 Jul 1;83(1):87–96

Induction of apoptosis in myocardial infarction and its possible relationship to nitric oxide synthase in macrophages. Suzuki H, et al. **Tissue Cell** 1996 Feb; 28(1):89–97

Gene trapping and functional genomics. Evans MJ, et al. **Trends Genet** 1997 Sep;13(9):370–4 (34 ref.)

Of messages and meaning. Gardiner K, et al. **Trends Genet** 1997 Mar;13(3):92–3

The G–tetrad in antisense targeting [letter] Probst JC, et al. **Trends Genet** 1996 Aug;12(8):290–1

A useful colony colour phenotype associated with the yeast selectable/counter–selectable marker MET15. Cost GJ, et al. **Yeast** 1996 Aug;12(10):939–41

A simplified method for the repeated replacement of yeast chromosomal sequences with in vitro mutations. Szent–Gyorgyi C. **Yeast** 1996 Jun 15;12(7):667–72

[A method for detection of germinal mutations in the p53 tumor suppressor gene] Sedláček Z, et al. **Cas Lek Cesk** 1996 Dec 4;135(23):762–7 (Eng. Abstr.) **(Cze)**

[Determination of biological paternity yesterday and today] Sieglová Z, et al. **Cas Lek Cesk** 1996 Jul 14;135(14):439–44 (32 ref.) (Eng. Abstr.) **(Cze)**

[A nested deletion method for cosmid DNA using the bacteriophage T3 in vitro packaging system] Kawarabayasi Y, et al. **Tanpakushitsu Kakusan Koso** 1997 Jun; 42(8):1327–31 (6 ref.) **(Jpn)**

[The biotechnology law and familial hypercholesterolemia. Extensive rules in genetic examination] Hafting M. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2648 **(Nor)**

[Application of gene technology in the diagnosis of familial hypercholesterolemia] Leren TP, et al. **Tidsskr Nor Laegeforen** 1997 Feb 20;117(5):678–81 (Eng. Abstr.) **(Nor)**

[Is there a need for genetic/molecular diagnosis of familial hypercholesterolemia?] Leren TP, et al. **Tidsskr Nor Laegeforen** 1997 Feb 20;117(5):681–3 (21 ref.) (Eng. Abstr.) **(Nor)**

[Use of recombinant DNA technique in circulatory system diseases. A short outline of recombinant DNA methods] Buraczyńska M, et al. **Pol Merkuriusz Lek** 1996 Aug; 1(2):139–42 (18 ref.) (Eng. Abstr.) **(Pol)**

[Use of recombinant DNA techniques in circulatory system diseases. Use of DNA analysis for evaluating diseases of circulation] Buraczyńska M, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):143–6 (31 ref.) **(Pol)**

[Ethical problems in molecular genetics and their reflection in clinical medicine] Pullmann R, et al. **Vnitr Lek** 1997 Mar;43(3):131–6 (Eng. Abstr.) **(Slo)**

[Development of biotechnology in genetics] Carnevale A. **Gac Med Mex** 1995 Jul–Aug;131(4):437–42 **(Spa)**

[Human genetics and the right to privacy] Martinez–Bullé Goyri VM. **Gac Med Mex** 1995 Jul–Aug;131(4):491–3 **(Spa)**

[Preimplantation genetic diagnosis. An alternative to traditional prenatal diagnosis] Iwarsson E, et al. **Lakartidningen** 1997 Aug 27;94(35):2919–22 (15 ref.) **(Swe)**

[Ethical problems when genetic techniques become clinical routine] Wahlström J, et al. **Lakartidningen** 1997 Sep 3; 94(36):3044–50 **(Swe)**

INSTRUMENTATION

Comparison of three power supplies used for the single–cell gel assay. Vrzoc M, et al. **Environ Mol Mutagen** 1996; 28(2):154–7

Microfabrication technologies for integrated nucleic acid analysis. Burke DT, et al. **Genome Res** 1997 Mar; 7(3):189–97 (60 ref.)

Simple hand–held devices for the efficient infection of plants with viral–encoding constructs by particle bombardment. Gal–On A, et al. **J Virol Methods** 1997 Feb;64(1):103–10

The use of the same image analysis system to detect genetic damage in human lymphocytes treated with doxorubicin in the Comet and fluoresence in situ hybridisation (FISH) assays. Anderson D, et al. **Mutat Res** 1997 Apr 24; 390(1–2):69–77

Litigation escalates for patents on a chip [news] Bains W. **Nat Biotechnol** 1997 May;15(5):406

Rapid determination of single base mismatch mutations in DNA hybrids by direct electric field control. Sosnowski RG, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1119–23

PSYCHOLOGY

Genetic testing for cancer in children. Short–term psychological effect. Codori AM, et al. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1131–8

Gene technology and social acceptance. Galjaard H. **Pathol Biol (Paris)** 1997 Mar;45(3):250–5

STANDARDS

EPA issues, USDA amends respective biotech rules [news] Fox JL. **Nat Biotechnol** 1997 Jun;15(6):503

STATISTICS & NUMERICAL DATA

Mixture distributions in human genetics research. Schork NJ, et al. **Stat Methods Med Res** 1996 Jun;5(2):155–78 (138 ref.)

TRENDS

A contemporary research paradigm for the genetic analysis of a common chronic disease. Boerwinkle E. **Ann Med** 1996 Oct;28(5):451–7 (52 ref.)

Diagnostic molecular pathology in the twenty–first century. Kiechle FL. **Clin Lab Med** 1996 Mar;16(1):213–22 (84 ref.)

Using new genetics tools to advance the behavioral neurosciences beyond nature versus nurture. Lederhendler II. **Horm Behav** 1997 Jun;31(3):186–7

[Transgenic animals and the future of medical research in Switzerland (editorial)] Stadler BM. **Schweiz Med Wochenschr** 1996 Oct 19;126(42):1775–8 **(Ger)**

UTILIZATION

[Use of molecular biology techniques in clinical research, in Chile (editorial)] Castillo S. **Rev Med Chil** 1996 Oct; 124(10):1245–7 (Eng. Abstr.) **(Spa)**

VETERINARY

Immunohistochemical demonstration of S–phase cells by anti–bromodeoxyuridine monoclonal antibody in cattle tissues. Yanai T, et al. **J Comp Pathol** 1996 Apr; 114(3):265–72

Noninvasive genetic tracking of the endangered Pyrenean brown bear population. Taberlet P, et al. **Mol Ecol** 1997 Sep;6(9):869–76

DNA testing in the equine. Malyj W. **Vet Clin North Am Equine Pract** 1995 Dec;11(3):525–42 (13 ref.)

GENETIC TOXICITY TESTS see **MUTAGENICITY TESTS**

GENETIC TRANSLATION see **TRANSLATION, GENETIC**

GENETIC VECTORS

see related
DNA, RECOMBINANT

Recombinant vaccinia virus expressing Pre–S/S protein of duck hepatitis B virus and its preliminary use for treatment of persistent infection. Ma ZM, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):311–4

PJuFo: a phagemid for display of cDNA libraries on phage surface suitable for selective isolation of clones expressing allergens. Crameri R, et al. **Adv Exp Med Biol** 1996; 409:103–10 (59 ref.)

Expression of the house dust mite allergen Der p2 and mutants in the baker's yeast Saccharomyces cerevisiae. Hakkaart GA, et al. **Adv Exp Med Biol** 1996;409:395–8 (5 ref.)

Host range restricted, non–replicating vaccinia virus vectors as vaccine candidates. Moss B, et al. **Adv Exp Med Biol** 1996;397:7–13 (35 ref.)

Alphavirus–based expression systems. Rice CM. **Adv Exp Med Biol** 1996;397:31–40 (38 ref.)

Herpes simplex virus–based vectors: problems and some solutions. Fink DJ, et al. **Adv Neurol** 1997;72:149–56 (17 ref.)

Herpes simplex virus–1 plasmid vectors for gene transfer into neurons. Geller AI. **Adv Neurol** 1997;72:143–8 (35 ref.)

In vivo gene therapy with adeno–associated virus vectors for cystic fibrosis. Flotte TR, et al. **Adv Pharmacol** 1997; 40:85–101 (67 ref.)

Engineering herpes simplex virus vectors for human gene therapy. Glorioso JC, et al. **Adv Pharmacol** 1997;40:103–36 (195 ref.)

Autonomous parvovirus and densovirus gene vectors. Corsini J, et al. **Adv Virus Res** 1996;47:303–51 (206 ref.)

Characterization of human foamy virus proteins expressed by recombinant vaccinia viruses. Fischer N, et al. **AIDS Res Hum Retroviruses** 1997 Apr 10;13(6):517–21

Handling of gene–transfer products by the National Institutes of Health Clinical Center pharmacy department. DeCederfelt HJ, et al. **Am J Health Syst Pharm** 1997 Jul 15;54(14):1604–10

Adenoviral gene transfer of macrophage inflammatory protein–2 in rat lung. Foley R, et al. **Am J Pathol** 1996 Oct;149(4):1395–403

Efficient oligonucleotide delivery using the HVJ–liposome method in the central nervous system. Yamada K, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1212–20

Gene cassettes for directional insertion at the SfiI cleavage site in the SV40 replication origin of mammalian expression vectors. Asselbergs FAM, et al. **Anal Biochem** 1996 Dec 15;243(2):285–8

Vectors for expressing proteins at the amino–terminus of an activation domain for use in the yeast two–hybrid system. Brown MA, et al. **Anal Biochem** 1997 May 1;247(2):451–2

A mammalian gene expression vector with blue–white selection for efficient subcloning in Escherichia coli. Liu Z, et al. **Anal Biochem** 1997 Mar 15;246(2):264–7

T7 vectors with modified T7lac promoter for expression of proteins in Escherichia coli. Peränen J, et al. **Anal Biochem** 1996 May 1;236(2):371–3

Refinement of vectors for use in the yeast two-hybrid system. Roder KH, et al. **Anal Biochem** 1996 Oct 15;241(2):260-2

Serratia liquefaciens as a new host superior for overproduction and purification using the N-acetylneuraminate lyase gene of Escherichia coli. Yamamoto K, et al. **Anal Biochem** 1997 Mar 15; 246(2):171-5

Adenovirus-vector-mediated cytokine gene transfer to lung tissue. Gauldie J, et al. **Ann N Y Acad Sci** 1996 Oct 31; 796:235-44 (26 ref.)

Retroviral vectors for production of interleukin-12 in the bone marrow to induce a graft-versus-leukemia effect. Hawley RG, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:341-5

Gene therapy—the challenge for the future. Moore MA, et al. **Ann Oncol** 1996;7 Suppl 2:53-8

Enhancement of gene therapy specificity for diffuse colon carcinoma liver metastases with recombinant herpes simplex virus. Carroll NM, et al. **Ann Surg** 1996 Sep; 224(3):323-9; discussion 329-30

Gene therapy of metastatic pancreas cancer with intraperitoneal injections of concentrated retroviral herpes simplex thymidine kinase vector supernatant and ganciclovir. Yang L, et al. **Ann Surg** 1996 Sep; 224(3):405-14; discussion 414-7

Transduction of murine and human tumors using recombinant adenovirus vectors. Toloza EM, et al. **Ann Surg Oncol** 1997 Jan;4(1):70-9

One-month histologic response of transmyocardial laser channels with molecular intervention. Fleischer KJ, et al. **Ann Thorac Surg** 1996 Oct;62(4):1051-8

Gene transfer to neurons using herpes simplex virus-based vectors. Fink DJ, et al. **Annu Rev Neurosci** 1996;19:265-87 (111 ref.)

Development of ribozyme gene therapy for HIV infection. Wong-Staal F. **Antibiot Chemother** 1996;48:226-32

Metabolism of a 5-nitroimidazole in susceptible and resistant isogenic strains of Bacteroides fragilis. Carlier JP, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1495-9

Application of a dicistronic mRNA expression vector to antisense RNA expression in mammalian cells. Yamauchi Y, et al. **Antisense Nucleic Acid Drug Dev** 1996 Winter; 6(4):305-9

Transient protection of human T-cells from human immunodeficiency virus type 1 infection by transduction with adeno-associated viral vectors which express RNA decoys. Smith C, et al. **Antiviral Res** 1996 Oct;32(2):99-115

Construction and characterization of a biotin-regulated gene expression system in Escherichia coli. Chang YS, et al. **Appl Biochem Biotechnol** 1997 May;66(2):147-58

Construction and use of a versatile set of broad-host-range cloning and expression vectors based on the RK2 replicon. Blatny JM, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):370-9

Construction of the temperature-sensitive vectors pLUCH80 and pLUCH88 for delivery of Tn917::NotI/SmaI and use of these vectors to derive a circular map of Listeria monocytogenes Scott A, a serotype 4b isolate. He W, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3480-7

Keratinocytes as a target for gene therapy. Sustained production of erythropoietin in mice by human keratinocytes transduced with an adenoassociated virus vector. Descamps V, et al. **Arch Dermatol** 1996 Oct; 132(10):1207-11

Cloning of VEGF165 into expression vector for protein production. Tuffin MJ, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):81-4

IRES bicistronic expression vectors for efficient creation of stable mammalian cell lines. Gurtu V, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):295-8

Controlled gene expression with a reverse tetracycline-regulated retroviral vector (RTRV) system. Watsuji T, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):769-73

Construction of a broad-host-range promoter-probing vector and cloning of promoter fragments of Xanthomonas campestris. Weng SF, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):386-90

Construction and characterization of a recombinant adenovirus vector carrying the human preproinsulin gene under the control of the metallothionein gene promoter. Yajima H, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):778-87

Adenovirus-mediated inducible gene expression through tetracycline-controllable transactivator with nuclear localization signal. Yoshida Y, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):426-30

Long-term expression of the human alpha1-antitrypsin gene in mice employing anionic and cationic liposome vector. Aliño SF. **Biochem Pharmacol** 1997 Jul 1;54(1):9-13 (35 ref.)

Adenoviral vectors for gene transfer of full-length human dystrophin cDNAs. Murphy S, et al. **Biochem Soc Trans** 1996 May;24(2):277S

Gene transfer into cultured bovine ciliary epithelial cells using adenovirus vectors. Walker VE, et al. **Biochem Soc Trans** 1996 Aug;24(3):423S

Molecular characterization of the prokaryotic efp gene product involved in a peptidyltransferase reaction. Aoki H, et al. **Biochimie** 1997;79(1):7-11

Expression of a recombinant human growth hormone binding protein in baculovirus/insect cell system. Cholin S, et al. **Biochimie** 1996;78(10):882-6

Mammalian cell binding and transfection mediated by surface-modified bacteriophage lambda. Dunn IS. **Biochimie** 1996;78(10):856-61

In vitro gene delivery by degraded polyamidoamine dendrimers. Tang MX, et al. **Bioconjug Chem** 1996 Nov-Dec;7(6):703-14

Stable transduction of recombinant adeno-associated virus into hematopoietic stem cells from normal and sickle cell patients. Lubovy M, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):24-30

Adenovirus-mediated gene transfer to rat testis in vivo. Blanchard KT, et al. **Biol Reprod** 1997 Feb;56(2):495-500

Transduction of human trophoblast cells by recombinant adenoviruses is differentiation dependent. MacCalman CD, et al. **Biol Reprod** 1996 Mar;54(3):682-91

EGFP-containing vector system that facilitates stable and transient expression assays. Alexander L, et al. **Biotechniques** 1997 Jul;23(1):64-6

XcmI-containing vector for direct cloning of PCR products. Borovkov AY, et al. **Biotechniques** 1997 May;22(5):812-4

Vectors for expression and secretion of FLAG epitope-tagged proteins in mammalian cells. Chubet RG, et al. **Biotechniques** 1996 Jan;20(1):136-41

Protocol for site-directed mutagenesis in the preparation of large gene-targeting vectors. De Togni P. **Biotechniques** 1997 Mar;22(3):426-8, 430

Preparation of T-over-hang vectors with high PCR product cloning efficiency. Hadjeb N, et al. **Biotechniques** 1996 Jan; 20(1):20-2

pPE1000: a versatile vector for the expression of epitope-tagged foreign proteins in transgenic plants. Hancock KR, et al. **Biotechniques** 1997 May;22(5):861-2, 865

Family of plasmid vectors for the expression of beta-galactosidase fusion proteins in eukaryotic cells. Ivics Z, et al. **Biotechniques** 1997 Feb;22(2):254-6, 258

Improved dicistronic mRNA expression vectors for efficient selection of transfectants highly expressing foreign genes. Kobayashi M, et al. **Biotechniques** 1996 Sep;21(3):398-402

Transient selection during vaccinia virus recombination with insertion vectors without selectable markers. Kurilla MG. **Biotechniques** 1997 May;22(5):906-10

Bicistronic vector for the creation of stable mammalian cell lines that predisposes all antibiotic-resistant cells to express recombinant protein. Rees S, et al. **Biotechniques** 1996 Jan; 20(1):102-4, 106, 108-10

Simple method for adapting DNA fragments and PCR products to all of the commonly used restriction sites. Tsang TC, et al. **Biotechniques** 1996 Jan;20(1):51-2

Mammalian expression vector with two multiple cloning sites for expression of two foreign genes. Tsang TC, et al. **Biotechniques** 1997 Jan;22(1):68

Improved cloning vectors for transgene construction. Yang Y, et al. **Biotechniques** 1997 Jun;22(6):1032-4, 1036, 1038

A modified unique site elimination mutagenesis in constructing a chloramphenicol resistance-encoding pGEM vector. Young C, et al. **Biotechniques** 1996 Jun; 20(6):986-8

Status and transcriptional activity of a bovine-papillomavirus-I-based expression vector in a recombinant production cell line [published erratum appears in Biotechnol Appl Biochem 1996 Apr;23(Pt 2):187] Fibi MR, et al. **Biotechnol Appl Biochem** 1996 Feb; 23 (Pt 1):83-93

Production and characterization of biologically active Ala-Ser-(His)6-Ile-Glu-Gly-Arg-human prolactin (tag-hPRL) secreted in the periplasmic space of Escherichia coli. Morganti L, et al. **Biotechnol Appl Biochem** 1996 Feb;23 (Pt 1):67-75

Expression of biologically active human granulocyte-macrophage colony-stimulating factor in the silkworm (Bombyx mori). Shi X, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):245-9

Inhibition of human immunodeficiency virus-1 (HIV-1) replication after transduction of granulocyte colony-stimulating factor-mobilized CD34+ cells from HIV-1-infected donors using retroviral vectors containing anti-HIV-1 genes. Bauer G, et al. **Blood** 1997 Apr 1; 89(7):2259-67

High-dose multidrug resistance in primary human hematopoietic progenitor cells transduced with optimized retroviral vectors. Eckert HG, et al. **Blood** 1996 Nov 1; 88(9):3407-15

Transduction of hematopoietic cells by foamy virus vectors. Hirata RK, et al. **Blood** 1996 Nov 1;88(9):3654-61

Adenoviral vectors in hematology: purging, stem cell gene transfer, or both [letter; comment] Wroblewski JM, et al. **Blood** 1997 Jun 15;89(12):4664-5. Comment on: Blood 1996 Jun 15;87(12):5032-9.

Cationic phosphonolipids as non viral vectors for DNA transfection in hematopoietic cell lines and CD34+ cells. Floch V, et al. **Blood Cells Mol Dis** 1997;23(1):69-87

Liver-associated toxicity of the HSV-tk/GCV approach and adenoviral vectors. Brand K, et al. **Cancer Gene Ther** 1997 Jan-Feb;4(1):9-16

The effect of promoter strength in adenoviral vectors containing herpes simplex virus thymidine kinase on cancer gene therapy in vitro and in vivo. Elshami AA, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):213-21

Potential salmon sperm origin of the E3 region insert of the adenovirus 5 dl309 mutant. Gingras MC, et al. **Cancer Gene Ther** 1996 May-Jun;3(3):151-4

Transmissibility of murine stem cell virus-based retroviral vectors carrying both interleukin-12 cDNAs and a third gene: implications for immune gene therapy. Lieu FH, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):167-75

Defective herpes simplex virus vectors expressing thymidine kinase for the treatment of malignant glioma. Miyatake S, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):222-8

Gene delivery into malignant cells in vivo by a conjugated adenovirus/DNA complex. Nguyen DM, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):183-90

Delivery of the p53 tumor suppressor gene into lung cancer cells by an adenovirus/DNA complex. Nguyen DM, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):191-8

In vitro maintenance and retroviral transduction of human myeloma cells in long-term marrow cultures. Stewart AK, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):148-56

Coexpression of a multidrug resistance gene (MDR1) and herpes simplex virus thymidine kinase gene in a bicistronic retroviral vector Ha-MDR-IRES-TK allows selective killing of MDR1-transduced human tumors transplanted in nude mice. Sugimoto Y, et al. **Cancer Gene Ther** 1997 Jan-Feb;4(1):51-8

Phenotypic and genotypic analysis of rat liver epithelial cells infected with retroviral shuttle vectors. Dees C, et al. **Cancer Lett** 1996 Oct 1;107(1):19-28

Vectors for cancer gene therapy. Zhang J, et al. **Cancer Metastasis Rev** 1996 Sep;15(3):385-401 (110 ref.)

Adenoviral gene transfer of nitric oxide synthase: high level expression in human vascular cells. Channon KM, et al. **Cardiovasc Res** 1996 Nov;32(5):962-72

Measurement of changes in sarcoplasmic reticulum [Ca2+] in rat tail artery with targeted apoaequorin delivered by an adenoviral vector. Rembold CM, et al. **Cell Calcium** 1997 Jan;21(1):69-79

The use of Epstein-Barr virus-based shuttle vectors in rat PC12 cells. Lindenboim L, et al. **Cell Mol Neurobiol** 1997 Feb;17(1):119-27

Regulation of L-DOPA production by genetically modified primary fibroblasts transfected with retrovirus vector system. Ishida A, et al. **Cell Transplant** 1996 Sep-Oct;5(5 Suppl 1):S5-7

New strategy for the construction of single-stranded plasmids with single mutagenic lesions. Napolitano RL, et al. **Chem Res Toxicol** 1997 Jun;10(6):667-71

The effects of sialoglycoconjugates on adenovirus-mediated gene transfer to epithelial cells in vitro and in human airway xenografts. Arcasoy SM, et al. **Chest** 1997 Jun;111(6 Suppl):142S-143S

Adenoviral vectors for hepatic gene transfer in animals. Kay MA. **Chest** 1997 Jun;111(6 Suppl):138S-142S (43 ref.)

Transient gene transfer and expression in the lung. Sime PJ, et al. **Chest** 1997 Jun;111(6 Suppl):89S-94S (33 ref.)

Enhancer stimulation unmasks latent gene transfer after adenovirus-mediated gene delivery into human vascular smooth muscle cells. Clesham GJ, et al. **Circ Res** 1996 Dec; 79(6):1188-95

Adenoviral gene transfer of phospholamban in isolated rat cardiomyocytes. Rescue effects by concomitant gene transfer of sarcoplasmic reticulum Ca(2+)-ATPase. Hajjar RJ, et al. **Circ Res** 1997 Aug;81(2):145-53

Adeno-associated virus vectors for vascular gene delivery. Lynch CM, et al. **Circ Res** 1997 Apr;80(4):497-505

Adenoviral constructs encoding phosphorylation-competent full-length and truncated forms of the human retinoblastoma protein inhibit myocyte proliferation and neointima formation [see comments] Smith RC, et al. **Circulation** 1997 Sep 16;96(6):1899-905. Comment in: Circulation 1997 Sep 16;96(6):1717-9.

Gene therapy for HIV infection. Morgan RA. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:41-4

Vectors--shuttle vehicles for gene therapy. Wilson JM. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:31-2 (4 ref.)

Ex vivo gene therapy for Alzheimer's disease and spinal cord injury. Blesch A, et al. **Clin Neurosci** 1995-96;3(5):268-74 (51 ref.)

Towards gene therapy in the nervous system. Doering LC. **Clin Neurosci** 1995-96;3(5):259-61 (14 ref.)

Adeno-associated virus vectors for gene therapy of neurodegenerative disorders. During MJ, et al. **Clin Neurosci** 1995-96;3(5):292-300 (75 ref.)

Advances in the development of herpes simplex virus-based gene transfer vectors for the nervous system. Fink DJ, et al. **Clin Neurosci** 1995-96;3(5):284-91 (41 ref.)

A defective herpes simplex virus vector system for gene delivery into the brain: comparison with alternative gene delivery systems and usefulness for gene therapy. Neve RL, et al. **Clin Neurosci** 1995-96;3(5):262-7 (90 ref.)

Adenovirus for neurodegenerative diseases: in vivo strategies and ex vivo gene therapy using human neural progenitors. Sabaté O, et al. **Clin Neurosci** 1995-96;3(5):317-21 (42 ref.)

Use of viral vectors to promote neuroregeneration. Verhaagen J, et al. **Clin Neurosci** 1995-96;3(5):275-83 (59 ref.)

Combination of gene targeting and gene transfer by adenoviral vectors in the analysis of neurotrophin-mediated neuronal plasticity. Griesbeck O, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:77-83 (39 ref.)

Gene transfer to ex vivo stored corneas. Fehervari Z, et al. **Cornea** 1997 Jul;16(4):459-64

Lipidic vector systems for gene transfer. Lee RJ, et al. **Crit Rev Ther Drug Carrier Syst** 1997;14(2):173-206 (67 ref.)

Nonviral vectors for in vivo gene delivery: physicochemical and pharmacokinetic considerations. Mahato RI, et al. **Crit Rev Ther Drug Carrier Syst** 1997;14(2):133–72 (177 ref.)

Use of a retroviral vector with an internal opsin promoter to direct gene expression to retinal photoreceptor cells [published erratum appears in Curr Eye Res 1996 Nov;15(11):1148] Kido M, et al. **Curr Eye Res** 1996 Aug; 15(8):833–44

Sindbis virus vectors for expression in animal cells. Huang HV. **Curr Opin Biotechnol** 1996 Oct;7(5):531–5 (47 ref.)

Baculovirus vectors for expression in insect cells. Jones I, et al. **Curr Opin Biotechnol** 1996 Oct;7(5):512–6 (29 ref.)

Mammalian artificial chromosomes. Brown W, et al. **Curr Opin Genet Dev** 1996 Jun;6(3):281–8

Adenovirus-mediated gene transfer: strategies and applications in lipoprotein research. Gerard RD, et al. **Curr Opin Lipidol** 1996 Apr;7(2):105–11 (37 ref.)

Viral vectors for modulating gene expression in neurons. Slack RS, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):576–83 (53 ref.)

Development of adeno-associated virus vectors for gene therapy of cystic fibrosis. Carter BJ, et al. **Curr Top Microbiol Immunol** 1996;218:119–44 (65 ref.)

Adeno-associated virus vectors for gene therapy of the hematopoietic system. Chatterjee S, et al. **Curr Top Microbiol Immunol** 1996;218:61–73 (55 ref.)

Adeno-associated virus vectors for gene transfer into erythroid cells. McCarty DM, et al. **Curr Top Microbiol Immunol** 1996;218:75–91 (31 ref.)

Packaging systems for adeno-associated virus vectors. Trempe JP. **Curr Top Microbiol Immunol** 1996;218:35–50 (68 ref.)

Adeno-associated virus based vectors as antivirals. Wong KK Jr, et al. **Curr Top Microbiol Immunol** 1996;218:145–70 (157 ref.)

Immunofluorescent study after transient transfection of myoblast cells with the plasmid PSV40-beta-globin. Pironcheva GL, et al. **Cytobios** 1996;86(347):243–6

Late proliferation of retinal Müller cell progenitors facilitates preferential targeting with retroviral vectors in vitro. Linser PJ, et al. **Dev Genet** 1997;20(3):186–96

An improved cosmid vector for the nested deletion method using the bacteriophage T3 DNA packaging system. Kawarabayasi Y, et al. **DNA Res** 1996 Feb 29;3(1):37–42

Cloning, bacterial expression and biological characterization of recombinant human granulocyte chemotactic protein-2 and differential expression of granulocyte chemotactic protein-2 and epithelial cell-derived neutrophil activating peptide-78 mRNAs. Froyen G, et al. **Eur J Biochem** 1997 Feb 1;243(3):762–9

Gene transfer to hematopoietic cells—the clinical experience. Richter J. **Eur J Haematol** 1997 Aug;59(2):67–75 (36 ref.)

Recombinant human adenovirus with rat MIP-2 gene insertion causes prolonged PMN recruitment to the murine brain. Bell MD, et al. **Eur J Neurosci** 1996 Sep;8(9):1803–11

Successful retroviral mediated transduction of a reporter gene in human dendritic cells: feasibility of therapy with gene-modified antigen presenting cells. Aicher A, et al. **Exp Hematol** 1997 Jan;25(1):39–44

Retroviral mediated gene transfer of Flt3 ligand enhances proliferation and MAP kinase activity of AML5 cells. Braun SE, et al. **Exp Hematol** 1997 Jan;25(1):51–6

The physico-chemical factors that govern retrovirus-mediated gene transfer. Palsson B, et al. **Exp Hematol** 1997 Feb;25(2):94–102 (94 ref.)

Gene delivery into the glomerulus via mesangial cell vectors. Kitamura M. **Exp Nephrol** 1997 Mar-Apr;5(2):118–25 (40 ref.)

Gene transfer into kidney tubules and vasculature by adenoviral vectors. Sukhatme VP, et al. **Exp Nephrol** 1997 Mar-Apr;5(2):137–43 (20 ref.)

Recombinant adenovirus: a gene transfer vector for study and treatment of CNS diseases. Davidson BL, et al. **Exp Neurol** 1997 Mar;144(1):125–30 (66 ref.)

Development of an HSV-based vector for the treatment of Parkinson's disease. Fink DJ, et al. **Exp Neurol** 1997 Mar; 144(1):103–21 (87 ref.)

Helper virus-free herpes simplex virus-1 plasmid vectors for gene therapy of Parkinson's disease and other neurological disorders. Geller AI, et al. **Exp Neurol** 1997 Mar; 144(1):98–102 (26 ref.)

Gene transfer by adeno-associated virus vectors into the central nervous system. Xiao X, et al. **Exp Neurol** 1997 Mar;144(1):113–24 (81 ref.)

Augmentation of ouabain sensitivity of rat liver Na/K-ATPase by in vivo adenovirus-mediated expression of the Na/K-ATPase alpha2 subunit. Askari FK, et al. **FEBS Lett** 1997 Mar 17;405(1):5–10

The packaging capacity of adeno-associated virus (AAV) and the potential for wild-type-plus AAV gene therapy vectors. Hermonat PL, et al. **FEBS Lett** 1997 Apr 21; 407(1):78–84

Expression of recombinant human ceruloplasmin—an absolute requirement for splicing signals in the expression cassette. Rafiq M, et al. **FEBS Lett** 1997 Apr 28; 407(2):132–6

Novel gene delivery to liver cells using engineered virosomes. Ramani K, et al. **FEBS Lett** 1997 Mar 10; 404(2–3):164–8

Gene replacement in Staphylococcus carnosus and Staphylococcus xylosus. Brückner R. **FEMS Microbiol Lett** 1997 Jun 1;151(1):1–8

Construction of new cloning vectors for Brevibacterium lactofermentum. Cadenas RF, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):63–8

Transformation of the extremely thermoacidophilic archaeon Sulfolobus solfataricus via a self-spreading vector. Elferink MG, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):31–5

Construction of pRES18 and pRES19, Streptomyces-Escherichia coli shuttle vectors carrying multiple cloning sites. Ishikawa J, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):113–6

Construction of GFP vectors for use in gram-negative bacteria other than Escherichia coli. Matthysse AG, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):87–94

Expression of Escherichia coli recA and ada genes in Saccharomyces cerevisiae using a vector with geneticin resistance. Šlaninová M, et al. **Folia Microbiol (Praha)** 1995; 40(3):257–62

Adenoviral vectors given intravenously to immunocompromised mice yield stable transduction of the colonic epithelium [see comments] Brown GR, et al. **Gastroenterology** 1997 May;112(5):1586–94. Comment in: Gastroenterology 1997 May;112(5):1753–6.

Construction of a family of Mycobacterium/Escherichia coli shuttle vectors derived from pAL5000 and pACYC184: their use for cloning an antibiotic-resistance gene from Mycobacterium fortuitum. Ainsa JA, et al. **Gene** 1996 Oct 17;176(1–2):23–6

New cosmid vectors for library construction, chromosome walking and restriction mapping in filamentous fungi. An Z, et al. **Gene** 1996 Oct 17;176(1–2):93–6

Characterization of the vaccinia MVA hemagglutinin gene locus and its evaluation as an insertion site for foreign genes. Antoine G, et al. **Gene** 1996 Oct 24;177(1–2):43–6

A novel cloning system for direct screening using a suicidal strategy. Barros EV, et al. **Gene** 1996 Nov 14;179(2):287–9

Intracellular production of a major cytomegalovirus antigenic protein in the methylotrophic yeast Pichia pastoris. Battista MC, et al. **Gene** 1996 Oct 17; 176(1–2):197–201

A new series of mycobacterial expression vectors for the development of live recombinant vaccines. Baulard A, et al. **Gene** 1996 Oct 17;176(1–2):149–54

Serum-dependent and cell cycle-dependent expression from a cytomegalovirus-based mammalian expression vector. Brightwell G, et al. **Gene** 1997 Jul 18;194(1):115–23

Peptide display on functional tailspike protein of bacteriophage P22. Carbonell X, et al. **Gene** 1996 Oct 17; 176(1–2):225–9

Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element. Chong S, et al. **Gene** 1997 Jun 19;192(2):271–81

A set of compatible tac promoter expression vectors. Dykxhoorn DM, et al. **Gene** 1996 Oct 24;177(1–2):133–6

Inducible high-level expression vector for mammalian cells, pEF-LAC carrying human elongation factor 1alpha promoter and lac operator. Edamatsu H, et al. **Gene** 1997 Mar 18;187(2):289–94

Versatile cosmid vectors for facilitated analysis and subcloning of the insert. Favre D, et al. **Gene** 1996 Oct 31;178(1–2):43–9

General purpose tagging vectors for fission yeast. Forsburg SL, et al. **Gene** 1997 Jun 3;191(2):191–5

Evaluation of novel control elements by construction of eukaryotic expression vectors. Furebring C, et al. **Gene** 1997 Apr 1;188(2):191–8

A novel Escherichia coli vector for oxygen-inducible high level expression of foreign genes. Gao B, et al. **Gene** 1996 Oct 17;176(1–2):269–70

A multifunctional vector system for heterologous expression of proteins in Escherichia coli. Expression of native and hexahistidyl fusion proteins, rapid purification of the fusion proteins, and removal of fusion peptide by Kex2 protease. Ghosh S, et al. **Gene** 1996 Oct 17;176(1–2):249–55

Expression vectors for the introduction of highly diverged sequences into the six complementarity-determining regions of an antibody. Iba Y, et al. **Gene** 1997 Jul 18; 194(1):35–46

Construction of shuttle vectors for genetic manipulation and molecular analysis of mycobacteria. Jain S, et al. **Gene** 1997 Apr 29;190(1):37–44

LambdaZLG6: a phage lambda vector for high-efficiency cloning and surface expression of cDNA libraries on filamentous phage. Jespers LS, et al. **Gene** 1996 Sep 16; 173(2):179–81

A xylose-inducible Bacillus subtilis integration vector and its application. Kim L, et al. **Gene** 1996 Nov 28; 181(1–2):71–6

Inclusion of an upstream transcriptional terminator in phage display vectors abolishes background expression of toxic fusions with coat protein g3p. Krebber A, et al. **Gene** 1996 Oct 31;178(1–2):71–4

A highly efficient and stable system for site-specific integration of genes and plasmids into the phage phiLC3 attachment site (attB) of the Lactococcus lactis chromosome. Lillehaug D, et al. **Gene** 1997 Mar 25; 188(1):129–36

Stable high-copy-number bacteriophage lambda promoter vectors for overproduction of proteins in Escherichia coli. Love CA, et al. **Gene** 1996 Oct 17;176(1–2):49–53

A sensitive reporter gene system using bacterial luciferase based on a series of plasmid cloning vectors compatible with derivatives of pBR322. Manen D, et al. **Gene** 1997 Feb 28;186(2):197–200

The major subunit ClpG of Escherichia coli CS31A fibrillae as an expression vector for different combinations of two TGEV coronavirus epitopes. Méchin MC, et al. **Gene** 1996 Nov 14;179(2):211–8

An improved GFP cloning cassette designed for prokaryotic transcriptional fusions. Miller WG, et al. **Gene** 1997 Jun 3;191(2):149–53

Targeting vectors for intracellular immunisation. Persic L, et al. **Gene** 1997 Mar 10;187(1):1–8

An integrated vector system for the eukaryotic expression of antibodies or their fragments after selection from phage display libraries. Persic L, et al. **Gene** 1997 Mar 10; 187(1):9–18

Deletion of the myristylation signal allows high-level production of the hepatitis B virus large surface glycoprotein preS1 with vaccinia virus recombinants. Pfleiderer M, et al. **Gene** 1996 Oct 17;176(1–2):131–7

Novel series of plasmid vectors for gene inactivation and expression analysis in group A streptococci (GAS). Podbielski A, et al. **Gene** 1996 Oct 24;177(1–2):137–47

Baculovirus multigene expression vectors and their use for understanding the assembly process of architecturally complex virus particles. Roy P, et al. **Gene** 1997 Apr 29; 190(1):119–29

Versatile vectors for direct cloning and ligation-independent cloning of PCR-amplified fragments for surface display on filamentous bacteriophages. Sampath A, et al. **Gene** 1997 Apr 29;190(1):5–10

Vector for IS element entrapment and functional characterization based on turning on expression of distal promoterless genes. Szeverényi I, et al. **Gene** 1996 Sep 26; 174(1):103–10

Development and characterization of a binary gene expression system based on bacteriophage T7 components in adenovirus vectors. Tomanin R, et al. **Gene** 1997 Jul 9;193(2):129–40

Alphavirus expression vectors and their use as recombinant vaccines: a minireview. Tubulekas I, et al. **Gene** 1997 Apr 29;190(1):191–5 (32 ref.)

A novel plasmid vector that uses the glucose kinase gene (glkA) for the positive selection of stable gene disruptants in Streptomyces. van Wezel GP, et al. **Gene** 1996 Dec 5; 182(1–2):229–30

Vectors for a 'double-tagging' assay for protein-protein interactions: localization of the CDK2-binding domain of human p21. Wang ZX, et al. **Gene** 1996 Sep 16; 173(2):147–54

Novel green fluorescent protein (GFP) baculovirus expression vectors. Wu C, et al. **Gene** 1997 Apr 29; 190(1):157–62

Isolation and characterization of packaging cell lines that coexpress the adenovirus E1, DNA polymerase, and preterminal proteins: implications for gene therapy. Amalfitano A, et al. **Gene Ther** 1997 Mar;4(3):258–63

Polycations increase the efficiency of adenovirus-mediated gene transfer to epithelial and endothelial cells in vitro. Arcasoy SM, et al. **Gene Ther** 1997 Jan;4(1):32–8

A novel packaging system for the generation of helper-free oncolytic MVM vector stocks. Brandenburger A, et al. **Gene Ther** 1996 Oct;3(10):927–31

A simple and rapid method for the determination of recombinant retrovirus titer by G418 selection. Byun J, et al. **Gene Ther** 1996 Nov;3(11):1018–20

Amphotropic and ecotropic retroviral vector viruses transduce midgestational murine fetal liver cells in a dual-chambered cocultivation system. Casal ML, et al. **Gene Ther** 1997 Jan;4(1):39–44

Adenovirus-mediated gene transfer into human hepatocytes: analysis of the biochemical functionality of transduced cells. Castell JV, et al. **Gene Ther** 1997 May;4(5):455–64

In vivo muscle gene transfer of full-length dystrophin with an adenoviral vector that lacks all viral genes. Clemens PR, et al. **Gene Ther** 1996 Nov;3(11):965–72

Gene delivery to the central and peripheral nervous systems of mice using HSV1 ICP34.5 deletion mutant vectors. Coffin RS, et al. **Gene Ther** 1996 Oct;3(10):886–91

Targeting retrovirus entry. Cosset FL, et al. **Gene Ther** 1996 Nov;3(11):946–56 (70 ref.)

Adenovirus-mediated expression of green fluorescent protein. de Martin R, et al. **Gene Ther** 1997 May;4(5):493–5

In vitro correction of iduronate-2-sulfatase deficiency by adenovirus-mediated gene transfer. Di Francesco C, et al. **Gene Ther** 1997 May;4(5):442–8

E1A RNA transcripts amplify adenovirus-mediated tumor reduction. Dion LD, et al. **Gene Ther** 1996 Nov; 3(11):1021–5

Comparison of promoter strengths on gene delivery into mammalian brain cells using AAV vectors. Doll RF, et al. **Gene Ther** 1996 May;3(5):437–47

Effect of co-lipids in enhancing cationic lipid-mediated gene transfer in vitro and in vivo. Fasbender A, et al. **Gene Ther** 1997 Jul;4(7):716–25

Selection and use of ligands for receptor-mediated gene delivery to myogenic cells. Feero WG, et al. **Gene Ther** 1997 Jul;4(7):664–74

Improved efficiency of arterial gene transfer by use of poloxamer 407 as a vehicle for adenoviral vectors. Feldman LJ, et al. **Gene Ther** 1997 Mar;4(3):189–98

Novel retroviral packaging cell lines: complementary tropisms and improved vector production for efficient gene

transfer. Forestell SP, et al. **Gene Ther** 1997 Jun;4(6):600–10

Retroviral end-point titer is not predictive of gene transfer efficiency: implications for vector production. Forestell SP, et al. **Gene Ther** 1995 Dec;2(10):723–30

A novel DNA–peptide complex for efficient gene transfer and expression in mammalian cells. Gottschalk S, et al. **Gene Ther** 1996 May;3(5):48–57

Enhanced immune costimulatory activity of primary acute myeloid leukaemia blasts after retrovirus-mediated gene transfer of B7.1. Hirst WJ, et al. **Gene Ther** 1997 Jul; 4(7):691–9

Gene therapy for hepatocellular carcinoma: long-term remission of primary and metastatic tumors in mice by interleukin-2 gene therapy in vivo. Huang H, et al. **Gene Ther** 1996 Nov;3(11):980–7

Rescue of photoreceptor function by AAV-mediated gene transfer in a mouse model of inherited retinal degeneration. Jomary C, et al. **Gene Ther** 1997 Jul;4(7):683–90

Adenovirus vector–transduced hepatocytes implanted via a preformed collagen/PTFE support persist for at least 4 weeks in vivo. Kremer EJ, et al. **Gene Ther** 1996 Oct; 3(10):932–6

Development of in vivo gene therapy for hearing disorders: introduction of adeno-associated virus into the cochlea of the guinea pig. Lalwani AK, et al. **Gene Ther** 1996 Jul; 3(7):588–92

Efficient muscle-specific transgene expression after adenovirus-mediated gene transfer in mice using a 1.35 kb muscle creatine kinase promoter/enhancer. Larochelle N, et al. **Gene Ther** 1997 May;4(5):465–72

Ex vivo transduction and expansion of CD4+ lymphocytes from HIV + donors: prelude to a ribozyme gene therapy trial. Leavitt MC, et al. **Gene Ther** 1996 Jul;3(7):599–606

Episomal expression of wild-type CFTR corrects cAMP-dependent chloride transport in respiratory epithelial cells. Lei DC, et al. **Gene Ther** 1996 May; 3(5):427–36

HIV and other lentivirus-based vectors [editorial] Lever AM. **Gene Ther** 1996 Jun;3(6):470–1

Site-specific integration by adeno-associated virus: a basis for a potential gene therapy vector [editorial] Linden RM, et al. **Gene Ther** 1997 Jan;4(1):4–5

Lipofection of a cDNA plasmid containing the dystrophin gene lowers intracellular free calcium and calcium leak channel activity in mdx myotubes. McCarter GC, et al. **Gene Ther** 1997 May;4(5):483–7

Laboratory and clinical studies in support of cystic fibrosis gene therapy using pCMV-CFTR-DOTAP. McLachlan G, et al. **Gene Ther** 1996 Dec;3(12):1113–23

Gene therapy for malignant gliomas using replication incompetent retroviral and adenoviral vectors encoding the cytochrome P450 2B1 gene together with cyclophosphamide. Manome Y, et al. **Gene Ther** 1996 Jun; 3(6):513–20

Adenovirus-mediated gene transfer: influence of transgene, mouse strain and type of immune response on persistence of transgene expression. Michou AI, et al. **Gene Ther** 1997 May;4(5):473–82

Towards the use of replicative adenoviral vectors for cancer gene therapy [editorial] Miller R, et al. **Gene Ther** 1996 Jul;3(7):557–9

Suitability of Epstein-Barr virus-based episomal vectors for expression of cytokine genes in human lymphoma cells. Mucke S, et al. **Gene Ther** 1997 Feb;4(2):82–92

A rapid screening procedure for the identification of high-titer retrovirus packaging clones. Murdoch B, et al. **Gene Ther** 1997 Jul;4(7):744–9

Gene transfer and expression of human alpha-galactosidase from mouse muscle in vitro and in vivo. Novo FJ, et al. **Gene Ther** 1997 May;4(5):488–92

Reversal of potassium channel deficiency in cells from failing hearts by adenoviral gene transfer: a prototype for gene therapy for disorders of cardiac excitability and contractility. Nuss HB, et al. **Gene Ther** 1996 Oct; 3(10):900–12

Gene therapy against an experimental glioma using adeno-associated virus vectors. Okada H, et al. **Gene Ther** 1996 Nov;3(11):957–64

In vivo transgene activation from an HSV-based gene therapy vector by GAL4:vp16. Oligino T, et al. **Gene Ther** 1996 Oct;3(10):892–9

Ex vivo adenovirus-mediated gene transfer and immunomodulatory protein production in human cornea. Oral HB, et al. **Gene Ther** 1997 Jul;4(7):639–47

Production of increased titer retrovirus vectors from stable producer cell lines by superinfection and concentration. Parente MK, et al. **Gene Ther** 1996 Sep;3(9):756–60

Efficient transduction of green fluorescent protein in spinal cord neurons using adeno-associated virus vectors containing cell type-specific promoters. Peel AL, et al. **Gene Ther** 1997 Jan;4(1):16–24

Stabilization of transgene expression by incorporation of E3 region genes into an adenoviral factor IX vector and by transient anti-CD4 treatment of the host. Poller W, et al. **Gene Ther** 1996 Jun;3(6):521–30

Cancer gene therapy using a novel adeno-associated virus vector expressing human wild-type p53. Qazilbash MH, et al. **Gene Ther** 1997 Jul;4(7):675–82

Enhancement of radiolabeled antibody binding and tumor localization through adenoviral transduction of the human carcinoembryonic antigen gene. Raben D, et al. **Gene Ther** 1996 Jul;3(7):567–80

Heart muscle-specific gene expression using replication defective recombinant adenovirus. Rothmann T, et al. **Gene Ther** 1996 Oct;3(10):919–26

High-efficiency retroviral vector mediated gene transfer into human peripheral blood CD4+ T lymphocytes. Rudoll T, et al. **Gene Ther** 1996 Aug;3(8):695–705

HBV-derived promoters direct liver-specific expression of an adenovirally transduced LDL receptor gene. Sandig V, et al. **Gene Ther** 1996 Nov;3(11):1002–9

Antibody to CD40 ligand inhibits both humoral and cellular immune responses to adenoviral vectors and facilitates repeated administration to mouse airway. Scaria A, et al. **Gene Ther** 1997 Jun;4(6):611–7

Retroviral targeted delivery. Schnierle BS, et al. **Gene Ther** 1996 Dec;3(12):1069–73 (29 ref.)

Long-term persistence of defective HSV-1 vectors in the rat brain is demonstrated by reactivation of vector gene expression. Starr PA, et al. **Gene Ther** 1996 Jul;3(7):615–23

SV40 mediates stable gene transfer in vivo. Strayer DS, et al. **Gene Ther** 1996 Jul;3(7):581–7

Use of SV40-based vectors to transduce foreign genes to normal human peripheral blood mononuclear cells. Strayer DS, et al. **Gene Ther** 1997 Mar;4(3):219–25

Incorporation of beta-globin untranslated regions into a Sindbis virus vector for augmentation of heterologous mRNA expression. Strong TV, et al. **Gene Ther** 1997 Jun; 4(6):624–7

Characterization of liposome-mediated gene delivery: expression, stability and pharmacokinetics of plasmid DNA. Thierry AR, et al. **Gene Ther** 1997 Mar;4(3):226–37

A packaging cell line for propagation of recombinant adenovirus vectors containing two lethal gene-region deletions. Wang Q, et al. **Gene Ther** 1995 Dec;2(10):775–83

Persistent transgene expression in mouse liver following in vivo gene transfer with a delta E1/delta E4 adenovirus vector. Wang Q, et al. **Gene Ther** 1997 May;4(5):393–400

Long-term gene expression from autonomously replicating vectors in mammalian cells. Wohlgemuth JG, et al. **Gene Ther** 1996 Jun;3(6):503–12

HVJ (Sendai virus)-cationic liposomes: a novel and potentially effective liposome-mediated technique for gene transfer to the airway epithelium. Yonemitsu Y, et al. **Gene Ther** 1997 Jul;4(7):631–8

Adenovirus-mediated generation of cAMP-stimulated Cl- transport in cystic fibrosis airway epithelia in vitro: effect of promoter and administration method. Zabner J, et al. **Gene Ther** 1996 May;3(5):458–65

Reduced germline mobility of a mariner vector containing exogenous DNA: effect of size or site? Lohe AR, et al. **Genetics** 1996 Jul;143(3):1299–306

A human chromosome 22 fosmid resource: mapping and analysis of 96 clones. Birren BW, et al. **Genomics** 1996 May 15;34(1):97–106

Antibody expression from the core region of the human IgH locus reconstructed in transgenic mice using bacteriophage P1 clones. Wagner SD, et al. **Genomics** 1996 Aug 1; 35(3):405–14

Transduction of human CD34+ haemopoietic progenitors of various origin using an original retrovirus vector derived from Fr-MuLV and clinically relevant procedures. Cohen-Haguenauer O, et al. **Hematol Cell Ther** 1996 Apr; 38(2):205–6

Nonviral gene transfer to the liver. Thompson AR, et al. **Hepatology** 1996 Dec;24(6):1541–2

A powerful nonviral vector for in vivo gene transfer into the adult mammalian brain: polyethylenimine. Abdallah B, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1947–54

Immediate inflammatory responses to adenovirus-mediated gene transfer in rat salivary glands. Adesanya MR, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1085–93

Correction of Sanfilippo A skin fibroblasts by retroviral vector-mediated gene transfer. Bielicki J, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1965–70

Direct intratumoral injection of an adenovirus expressing interleukin-12 induces regression and long-lasting immunity that is associated with highly localized expression of interleukin-12. Bramson JL, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1995–2002

In vivo and in vitro gene transfer and expression in rat intestinal epithelial cells by E1-deleted adenoviral vector. Cheng DY, et al. **Hum Gene Ther** 1997 Apr 10;8(6):755–64

Phase I study of recombinant CEA vaccinia virus vaccine with post vaccination CEA peptide challenge. Cole DJ, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1381–94

Retroviral gene transfer in autologous bone marrow transplantation for adult acute leukemia. Cornetta K, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1323–9

Phase I study of direct administration of a replication deficient adenovirus vector containing the E. coli cytosine deaminase gene to metastatic colon carcinoma of the liver in association with the oral administration of the pro-drug 5-fluorocytosine. Crystal RG, et al. **Hum Gene Ther** 1997 May 20;8(8):985–1001

Viral gene delivery to skeletal muscle: insights on maturation-dependent loss of fiber infectivity for adenovirus and herpes simplex type 1 viral vectors. Feero WG, et al. **Hum Gene Ther** 1997 Mar 1;8(4):371–80

A phase I study of an adeno-associated virus-CFTR gene vector in adult CF patients with mild lung disease. Flotte T, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1145–59

Use of a retroviral vector to study the trafficking patterns of purified ovarian tumor infiltrating lymphocytes (TIL) used in intraperitoneal adoptive immunotherapy of ovarian cancer patients. A pilot study. Freedman RS, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1351–65

Retroviral vectors efficiently transduce basal and secretory airway epithelial cells in vitro resulting in persistent gene expression in organotypic culture. Halbert CL, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1871–81

Gene therapy for the treatment of metastatic breast cancer by in vivo transduction with breast-targeted retroviral vector expressing antisense c-fos RNA. Holt JT, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1367–80

Use of amphotropic retroviral vectors for gene transfer in human colon carcinoma cells. Jacomino M, et al. **Hum Gene Ther** 1997 May 1;8(7):835–41

Prolonged in vivo gene expression driven by a tyrosine hydroxylase promoter in a defective herpes simplex virus amplicon vector. Jin BK, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2015–24

HSV/AAV hybrid amplicon vectors extend transgene expression in human glioma cells. Johnston KM, et al. **Hum Gene Ther** 1997 Feb 10;8(3):359–70

Enhanced distribution of adenovirus-mediated gene transfer to lung parenchyma by perfluorochemical liquid. Lisby DA, et al. **Hum Gene Ther** 1997 May 20;8(8):919–28

Progress in transcriptionally targeted and regulatable vectors for genetic therapy. Miller N, et al. **Hum Gene Ther** 1997 May 1;8(7):803–15 (108 ref.)

Molecular analysis of T lymphocyte-directed gene therapy for adenosine deaminase deficiency: long-term expression in vivo of genes introduced with a retroviral vector. Mullen CA, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1123–9

Adenovirus-mediated expression of Fas ligand induces hepatic apoptosis after Systemic administration and apoptosis of ex vivo-infected pancreatic islet allografts and isografts. Muruve DA, et al. **Hum Gene Ther** 1997 May 20;8(8):955–63

Adenovirus-mediated gene therapy in a mouse model of hereditary tyrosinemia type I. Overturf K, et al. **Hum Gene Ther** 1997 Mar 20;8(5):513–21

A novel 'piggyback' packaging system for herpes simplex virus amplicon vectors. Pechan PA, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2003–13

A gene delivery system activatable by disease-associated matrix metalloproteinases. Peng KW, et al. **Hum Gene Ther** 1997 Apr 10;8(6):729–38

Development of amphotropic murine retrovirus vectors resistant to inactivation by human serum. Pensiero MN, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1095–101

A retroviral vector that allows efficient co-expression of two genes and the versatility of alternate selection markers. Saleh M. **Hum Gene Ther** 1997 May 20;8(8):979–83

In vitro assembly of SV40 virions and pseudovirions: vector development for gene therapy. Sandalon Z, et al. **Hum Gene Ther** 1997 May 1;8(7):843–9

Gene transfer into hepatocytes and human liver tissue by baculovirus vectors. Sandig V, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1937–45

Establishment of parameters for optimal transduction efficiency and antitumor effects with purified high-titer HSV-TK retroviral vector in established solid tumors. Smiley WR, et al. **Hum Gene Ther** 1997 May 20;8(8):965–77

Intracranial administration of adenovirus expressing HSV-TK in combination with ganciclovir produces a dose-dependent, self-limiting inflammatory response. Smith JG, et al. **Hum Gene Ther** 1997 May 20;8(8):943–54

Treatment of advanced mesothelioma with the recombinant adenovirus H5.010RSVTK: a phase 1 trial (BB-IND 6274). Treat J, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2047–57

Construction and characterization of a recombinant vaccinia virus expressing murine intercellular adhesion molecule-1: induction and potentiation of antitumor responses. Uzendoski K, et al. **Hum Gene Ther** 1997 May 1;8(7):851–60

Systematic evaluation of chimeric marker genes on dicistronic transcription units for regulated expression of transgenes in vitro and in vivo. Veelken H, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1827–36

Viral interference during simultaneous transduction with two independent helper-free retroviral vectors. Walker PS, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1131–8

Dendritic cells transduced with an adenoviral vector encoding a model tumor-associated antigen for tumor vaccination. Wan Y, et al. **Hum Gene Ther** 1997 Jul 20; 8(11):1355–63

Herpesvirus vector-mediated gene delivery to human monocytes. Weir JP, et al. **Hum Gene Ther** 1996 Jul 10; 7(11):1331–8

Evaluation of recommendations for replication-competent retrovirus testing associated with use of retroviral vectors. Wilson CA, et al. **Hum Gene Ther** 1997 May 1;8(7):869–74

Anti-T cell receptor antibody prolongs transgene expression and reduces lung inflammation after adenovirus-mediated gene transfer. Zsengellér ZK, et al. **Hum Gene Ther** 1997 May 20;8(8):935–41

Gene transfer into the mouse retina mediated by an adeno-associated viral vector. Ali RR, et al. **Hum Mol Genet** 1996 May;5(5):591–4

Genetic stability of gene targeted immunoglobulin loci. I. Heavy chain isotype exchange induced by a universal gene replacement vector. Kardinal C, et al. **Immunology** 1996 Nov;89(3):309–15

Viral vectors for gene therapy of hematopoietic cells. Medin JA, et al. **Immunotechnology** 1997 Mar;3(1):3–19 (103 ref.)

Gene transfer into mouse embryonic stem cell-derived cardiac myocytes mediated by recombinant adenovirus. Rust EM, et al. **In Vitro Cell Dev Biol Anim** 1997 Apr; 33(4):270–6

Protective immunity against Clostridium difficile toxin A induced by oral immunization with a live, attenuated Vibrio cholerae vector strain. Ryan ET, et al. **Infect Immun** 1997 Jul;65(7):2941–9

Substrate specificity and inhibitor profile of human recombinant p56lck from a baculovirus expression vector. Flotow H, et al. **Inflamm Res** 1996 Aug;45(8):412–5

Detection of expressed chloramphenicol acetyltransferase in the saliva of Culex pipiens mosquitoes. Kamrud KI, et al. **Insect Biochem Mol Biol** 1997 May;27(5):423–9

Transposable elements and gene transformation in non-drosophilid insects. O'Brochta DA, et al. **Insect Biochem Mol Biol** 1996 Sep–Oct;26(8–9):739–53 (96 ref.)

Purification and analysis of a polydnavirus gene product expressed using a poly-histidine baculovirus vector. Soldevila AI, et al. **Insect Biochem Mol Biol** 1997 Mar; 27(3):201–11

A Drosophila melanogaster hobo-white(+) vector mediates low frequency gene transfer in D. virilis with full interspecific white(+) complementation. Gomez SP, et al. **Insect Mol Biol** 1997 May;6(2):165–71

Baculovirus immediate early gene promoter based expression vectors for transient and stable transformation of insect cells. Vulsteke V, et al. **Insect Mol Biol** 1993;2(4):195–204

Rat primary T cells expressing HTLV-I tax gene transduced by a retroviral vector: in vitro and in vivo characterization. Murata K, et al. **Int J Cancer** 1996 Sep 27;68(1):102–8

Chimeric rhinoviruses as tools for vaccine development and characterization of protein epitopes. Arnold GF, et al. **Intervirology** 1996;39(1–2):72–8 (38 ref.)

Spatial structure and insertion capacity of immunodominant region of hepatitis B core antigen. Borisova G, et al. **Intervirology** 1996;39(1–2):16–22 (23 ref.)

Chimeric potyvirus-like particles as vaccine carriers. Jagadish MN, et al. **Intervirology** 1996;39(1–2):85–92 (27 ref.)

RNA phage Q beta coat protein as a carrier for foreign epitopes. Kozlovska TM, et al. **Intervirology** 1996; 39(1–2):9–15 (19 ref.)

The development of cowpea mosaic virus as a potential source of novel vaccines. Porta C, et al. **Intervirology** 1996; 39(1–2):79–84 (24 ref.)

Hepatitis B virus core and e antigen: immune recognition and use as a vaccine carrier moiety. Schödel F, et al. **Intervirology** 1996;39(1–2):104–10

Chimaera and its modern virus-like descendants. Ulrich R, et al. **Intervirology** 1996;39(1–2):126–32 (107 ref.)

Safety and immunogenicity of recombinant human immunodeficiency virus-like particles in rodents and rhesus macaques. Wagner R, et al. **Intervirology** 1996; 39(1–2):93–103 (76 ref.)

Overexpression of cell cycle inhibitors (p16INK4 and p21Cip1) and cyclin D1 using adenovirus vectors regulates proliferation of rat mesangial cells. Terada Y, et al. **J Am Soc Nephrol** 1997 Jan;8(1):51–60

Development of a temperature-inducible expression system for Streptomyces spp. Kataoka M, et al. **J Bacteriol** 1996 Sep;178(18):5540–2

Integration of narrow-host-range vectors from Escherichia coli into the genomes of amino acid-producing corynebacteria after intergeneric conjugation. Mateos LM, et al. **J Bacteriol** 1996 Oct;178(19):5768–75

A new Thermus-Escherichia coli shuttle integration vector system. Tamakoshi M, et al. **J Bacteriol** 1997 Aug; 179(15):4811–4

The yeast Saccharomyces cerevisiae as a genetic system for obtaining variants of poliovirus protease 2A. Barco A, et al. **J Biol Chem** 1997 May 9;272(19):12683–91

Complexes of adenovirus with polycationic polymers and cationic lipids increase the efficiency of gene transfer in vitro and in vivo. Fasbender A, et al. **J Biol Chem** 1997 Mar 7;272(10):6479–89

The baculovirus/insect cell system as an alternative to Xenopus oocytes. First characterization of the AKT1 K+ channel from Arabidopsis thaliana. Gaymard F, et al. **J Biol Chem** 1996 Sep 13;271(37):22863–70

SV40 as an effective gene transfer vector in vivo. Strayer DS. **J Biol Chem** 1996 Oct 4;271(40):24741–6

Reconstruction and expression of chimeric anti-HBx antibody in Escherichia coli. Zhou G, et al. **J Cancer Res Clin Oncol** 1997;123(6):325–30

Gene targeting of a CFTR allele in HT29 human epithelial cells. Montrose-Rafizadeh C, et al. **J Cell Physiol** 1997 Mar;170(3):299–308

Herpes simplex viral vectors expressing Bcl-2 are neuroprotective when delivered after a stroke. Lawrence MS, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):740–4

An amphotropic retroviral vector expressing a mutant gsp oncogene: effects on human thyroid cells in vitro. Ivan M, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2702–9

Vaccinia virus serves as an efficient vector for expressing heterologous proteins in human NTera 2 neurons. Cook DG, et al. **J Comp Neurol** 1996 Oct 28;374(4):481–92

Construction of retroviral vectors to induce strong hepatoma cell-specific expression of cytokine genes. Cao G, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1053–61

Comparison of the human versus murine cytomegalovirus immediate early gene promoters for transgene expression by adenoviral vectors. Addison CL, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1653–61

Regulated expression vectors demonstrate cell-type-specific sensitivity to human immunodeficiency virus type 1 Nef-induced cytostasis. Cooke SJ, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):381–92

A recombinant human adenovirus expressing the simian immunodeficiency virus Gag antigen can induce long-lived immune responses in mice. Flanagan B, et al. **J Gen Virol** 1997 May;78 (Pt 5):991–7

A murine RNA polymerase I promoter inserted into the herpes simplex virus type 1 genome is functional during lytic, but not latent, infection. Lachmann RH, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2575–82

Maturation of the dengue-2 virus NS1 protein in insect cells: effects of downstream NS2A sequences on baculovirus-expressed gene constructs. Leblois H, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):979–84

Non-replicating recombinant vaccinia virus encoding murine B-7 molecules elicits effective costimulation of naive CD4+ splenocytes in vitro. Oertli D, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3121–5

Baculovirus-mediated trans-epithelial transport of proteins in infected caterpillars. Sárvári M, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):953–63

Vectors based on maize streak virus can replicate to high copy numbers in maize plants. Shen WH, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):965–9

Cell type-specific expression in brain cell cultures from a short human cytomegalovirus major immediate early promoter depends on whether it is inserted into herpesvirus or adenovirus vectors. Shering AF, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):445–59

Plasmid vector for cloning infectious cDNAs from plant RNA viruses: high infectivity of cDNA clones of tomato aspermy cucumovirus. Shi BJ, et al. **J Gen Virol** 1997 May; 78 (Pt 5):1181–5

Improved retroviral vectors for hematopoietic stem cell protection and in vivo selection. Baum C, et al. **J Hematother** 1996 Aug;5(4):323–9 (40 ref.)

Extremely efficient gene transfection into lympho-hematopoietic cell lines by Epstein-Barr virus-based vectors. Mazda O, et al. **J Immunol Methods** 1997 May 26;204(2):143–51

Versatile vectors for transient and stable expression of recombinant antibody molecules in mammalian cells. Norderhaug L, et al. **J Immunol Methods** 1997 May 12; 204(1):77–87

Selection of phage-displayed superantigen by binding to cell-surface MHC class II. Wung JL, et al. **J Immunol Methods** 1997 May 12;204(1):33–41

Active immunization with tumor cells transduced by a novel AAV plasmid-based gene delivery system. Clary BM, et al. **J Immunother** 1997 Jan;20(1):26–37

Neutralization of endogenous interferon-beta increases the efficiency of adenoviral vector-mediated gene transduction. Dong Z, et al. **J Interferon Cytokine Res** 1997 Jul;17(7):401–7

Polymerase chain reaction cloning and expression of the rat granulocyte-macrophage colony-stimulating factor. Oaks MK, et al. **J Interferon Cytokine Res** 1995 Dec; 15(12):1095–102

Delivery of human interferon-gamma via gene transfer in vitro: prolonged expression and induction of macrophage antimicrobial activity. Stoeckle MY, et al. **J Interferon Cytokine Res** 1996 Dec;16(12):1015–9

Adenoviral-mediated herpes simplex virus-thymidine kinase gene transfer in vivo for treatment of experimental human melanoma. Bonnekoh B, et al. **J Invest Dermatol** 1996 Jun; 106(6):1163–8

Immunisation of common marmosets with vaccinia virus expressing Epstein-Barr virus (EBV) gp340 and challenge with EBV. Mackett M, et al. **J Med Virol** 1996 Nov; 50(3):263–71

Fusigenic liposome-mediated DNA transfer into cardiac myocytes. Ellison KE, et al. **J Mol Cell Cardiol** 1996 Jul; 28(7):1385–99

Adenovirus-mediated increase of exogenous and inhibition of endogenous fosB gene expression in cultured pulmonary arterial smooth muscle cells. Lu CY, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1703–13

Adenovirus-mediated gene transfer of a heat shock protein 70 (hsp 70i) protects against simulated ischemia. Mestril R, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2351–8

Gene therapy: mastering the basics, defining details [news] Jenks S. **J Natl Cancer Inst** 1997 Aug 20;89(16):1182–4

Effect of canarypox virus (ALVAC)-mediated cytokine expression on murine prostate tumor growth [see comments] Kawakita M, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):428–36. Comment in: J Natl Cancer Inst 1997 Mar 19;89(6):408–9.

Canarypox virus vectors for gene transfer in cancer immunotherapy [editorial; comment] Levitsky HI. **J Natl Cancer Inst** 1997 Mar 19;89(6):408–9. Comment on: J Natl Cancer Inst 1997 Mar 19;89(6):428–60.

An adenoviral vector-based system to study neuronal gene expression: analysis of the rat tyrosine hydroxylase promoter in cultured neurons. Robert JJ, et al. **J Neurochem** 1997 May;68(5):2152–60

Targeted transduction of CNS neurons with adenoviral vectors carrying neurotrophic factor genes confers neuroprotection that exceeds the transduced population. Baumgartner BJ, et al. **J Neurosci** 1997 Sep 1; 17(17):6504–11

Adenoviral vector-mediated expression of B-50/GAP-43 induces alterations in the membrane organization of olfactory axon terminals in vivo. Holtmaat AJ, et al. **J Neurosci** 1997 Sep 1;17(17):6575–86

Phenotypic alteration of astrocytes induced by ciliary neurotrophic factor in the intact adult brain, As revealed by adenovirus-mediated gene transfer. Lisovoski F, et al. **J Neurosci** 1997 Oct 1;17(19):7228–36

Adenovirus-mediated gene transfer in neurons: construction and characterization of a vector for heterologous expression of the axonal cell adhesion molecule axonin-1. Giger RJ, et al. **J Neurosci Methods** 1997 Jan;71(1):99–111

Transient gene transfer to neurons and glia: analysis of adenoviral vector performance in the CNS and PNS. Hermens WT, et al. **J Neurosci Methods** 1997 Jan; 71(1):85–98

Defective viral vectors as agents for gene transfer in the nervous system. Kaplitt MG, et al. **J Neurosci Methods** 1997 Jan;71(1):125–32 (87 ref.)

Adenoviral vector-mediated gene transfer and neurotransplantation: possibilities and limitations in grafting of the fetal rat suprachiasmatic nucleus. van Esseveldt KE, et al. **J Neurosci Methods** 1997 Jan;71(1):113–23

Adaptation of TCR expression vectors for the construction of mouse-human chimeric MBP-specific TCR transgenes. Baker AM, et al. **J Neurosci Res** 1996 Aug 15;45(4):487–91

Prevention of motoneuron death by adenovirus-mediated neurotrophic factors. Giménez y Ribotta M, et al. **J Neurosci Res** 1997 May 1;48(3):281–5

Adenovirus-mediated gene transfer into dissociated and explant cultures of rat hippocampal neurons. Wilkemeyer MF, et al. **J Neurosci Res** 1996 Jan 15;43(2):161–74

Herpes simplex virus vectors for gene transfer to the nervous system. Goins WF, et al. **J Neurovirol** 1997 May;3 Suppl 1:S80–8 (91 ref.)

Adenoviral-mediated gene transfer to murine small intestine is more efficient in neonates than adults. Hamilton T, et al. **J Pediatr Surg** 1997 Feb;32(2):373–7

Antitumor mechanisms of attenuated Salmonella typhimurium containing the gene for human interleukin-2: a novel antitumor agent? Saltzman DA, et al. **J Pediatr Surg** 1997 Feb;32(2):301–6

Expression of ligand-gated ion channels with the Semliki Forest virus expression system. Lundstrom K, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):115–26

Adenovirus vector-mediated gene transduction to chondrocytes: in vitro evaluation of therapeutic efficacy of transforming growth factor-beta 1 and heat shock protein 70 gene transduction. Arai Y, et al. **J Rheumatol** 1997 Sep;24(9):1787–95

In vivo adenoviral-mediated gene transfer in the treatment of pancreatic cancer. Evoy D, et al. **J Surg Res** 1997 Apr; 69(1):226–31

Construction of recombinant adeno-associated virus vector containing the rat preproinsulin II gene. Peng L, et al. **J Surg Res** 1997 Apr;69(1):193–8

Intracoronary gene transfer of immunosuppressive cytokines to cardiac allografts: method and efficacy of adenovirus-mediated transduction. Brauner R, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1059–66; discussion 1066–7

Cytotoxic effects of recombinant adenovirus p53 and cell cycle regulator genes (p21 WAF1/CIP1 and p16CDKN4) in human prostate cancers. Gotoh A, et al. **J Urol** 1997 Aug;158(2):636–41

In vivo gene transfer into rat arterial walls with novel adeno-associated virus vectors. Arnold TE, et al. **J Vasc Surg** 1997 Feb;25(2):347–55

Improved retroviral transduction efficiency of vascular cells in vitro and in vivo during clinically relevant incubation periods using centrifugation to increase viral titers. Zelenock JA, et al. **J Vasc Surg** 1997 Jul;26(1):119–27

Inhibition of hepatitis B virus by retroviral vectors expressing antisense RNA. Ji W, et al. **J Viral Hepat** 1997 May; 4(3):167–73

Identification and elimination of replication-competent adeno-associated virus (AAV) that can arise by nonhomologous recombination during AAV vector production. Allen JM, et al. **J Virol** 1997 Sep;71(9):6816–22

High-efficiency transduction of human lymphoid progenitor cells and expression in differentiated T cells. An DS, et al. **J Virol** 1997 Feb;71(2):1397–404

Effect of the E4 region on the persistence of transgene expression from adenovirus vectors. Armentano D, et al. **J Virol** 1997 Mar;71(3):2408–16

A source of glycosylated human T-cell lymphotropic virus type I envelope protein: expression of gp46 by the vaccinia virus/T7 polymerase system. Arp J, et al. **J Virol** 1996 Nov;70(11):7349–59

Highly efficient and sustained gene transfer in adult neurons with a lentivirus vector. Blömer U, et al. **J Virol** 1997 Sep; 71(9):6641–9

Expression of gp19K increases the persistence of transgene expression from an adenovirus vector in the mouse lung and liver. Bruder JT, et al. **J Virol** 1997 Oct;71(10):7623–8

Humoral, mucosal, and cellular immunity in response to a human immunodeficiency virus type 1 immunogen expressed by a Venezuelan equine encephalitis virus

vaccine vector. Caley IJ, et al. **J Virol** 1997 Apr; 71(4):3031–8

Murine leukemia virus–based Tat–inducible long terminal repeat replacement vectors: a new system for anti–human immunodeficiency virus gene therapy. Cannon PM, et al. **J Virol** 1996 Nov;70(11):8234–40

Toward highly efficient cell–type–specific gene transfer with retroviral vectors displaying single–chain antibodies. Chu TH, et al. **J Virol** 1997 Jan;71(1):720–5

Long–term gene delivery into the livers of immunocompetent mice with E1/E4–defective adenoviruses. Dedieu JF, et al. **J Virol** 1997 Jun;71(6):4626–37

Psi– vectors: murine leukemia virus–based self–inactivating and self–activating retroviral vectors. Delviks KA, et al. **J Virol** 1997 Aug;71(8):6218–24

High level of transgene expression in cell cultures and in the mouse by replication–incompetent adenoviruses harboring modified VAI genes. Eloit M, et al. **J Virol** 1997 Jul;71(7):5375–81

Diminishing adenovirus gene expression and viral replication by promoter replacement. Fang B, et al. **J Virol** 1997 Jun; 71(6):4798–803

Ambisense gene expression from recombinant rabies virus: random packaging of positive– and negative–strand ribonucleoprotein complexes into rabies virions. Finke S, et al. **J Virol** 1997 Oct;71(10):7281–8

Analysis of a recombinant mouse hepatitis virus expressing a foreign gene reveals a novel aspect of coronavirus transcription. Fischer F, et al. **J Virol** 1997 Jul; 71(7):5148–60

Helper virus–free transfer of herpes simplex virus type 1 plasmid vectors into neural cells. Fraefel C, et al. **J Virol** 1996 Oct;70(10):7190–7

Biology of adenovirus vectors with E1 and E4 deletions for liver–directed gene therapy. Gao GP, et al. **J Virol** 1996 Dec;70(12):8934–43

Selection for retroviral insertions into regulated genes. Gogos JA, et al. **J Virol** 1997 Feb;71(2):1644–50

Transduction by adeno–associated virus vectors in the rabbit airway: efficiency, persistence, and readministration. Halbert CL, et al. **J Virol** 1997 Aug;71(8):5932–41

Construction of adenovirus vectors through Cre–lox recombination. Hardy S, et al. **J Virol** 1997 Mar; 71(3):1842–9

Molecular characterization of replication–competent variants of adenovirus vectors and genome modifications to prevent their occurrence. Hehir KM, et al. **J Virol** 1996 Dec; 70(12):8459–67

A conditional self–inactivating retrovirus vector that uses a tetracycline–responsive expression system. Hwang JJ, et al. **J Virol** 1997 Sep;71(9):7128–31

Novel retroviral vector transferring a suicide gene and a selectable marker gene with enhanced gene expression by using a tetracycline–responsive expression system. Hwang JJ, et al. **J Virol** 1996 Nov;70(11):8138–41

Specific targeting to CD4+ cells of recombinant vesicular stomatitis viruses encoding human immunodeficiency virus envelope proteins. Johnson JE, et al. **J Virol** 1997 Jul; 71(7):5060–8

Generation of recombinant adenovirus vectors with modified fibers for altering viral tropism. Krasnykh VN, et al. **J Virol** 1996 Oct;70(10):6839–46

Infectious particles derived from Semliki Forest virus vectors encoding murine leukemia virus envelopes. Lebedeva I, et al. **J Virol** 1997 Sep;71(9):7061–7

Role for highly regulated rep gene expression in adeno–associated virus vector production. Li J, et al. **J Virol** 1997 Jul;71(7):5236–43

Elimination of hepatitis C virus RNA in infected human hepatocytes by adenovirus–mediated expression of ribozymes. Lieber A, et al. **J Virol** 1996 Dec;70(12):8782–91

Recombinant adenoviruses with large deletions generated by Cre–mediated excision exhibit different biological properties compared with first–generation vectors in vitro and in vivo. Lieber A, et al. **J Virol** 1996 Dec; 70(12):8944–60

Efficient pseudotyping of murine leukemia virus particles with chimeric human foamy virus envelope proteins. Lindemann D, et al. **J Virol** 1997 Jun;71(6):4815–20

Gene transfer to human cells using retrovirus vectors produced by a new polytropic packaging cell line. Loiler SA, et al. **J Virol** 1997 Jun;71(6):4825–8

Complementation of a primer binding site–impaired murine leukemia virus–derived retroviral vector by a genetically engineered tRNA–like primer. Lund AH, et al. **J Virol** 1997 Feb;71(2):1191–5

Efficient encapsidation of human immunodeficiency virus type 1 vectors and further characterization of cis elements required for encapsidation. McBride MS, et al. **J Virol** 1997 Jun;71(6):4544–54

Recombinant adeno–associated virus mediates a high level of gene transfer but less efficient integration in the K562 human hematopoietic cell line. Malik P, et al. **J Virol** 1997 Mar;71(3):1776–83

Genetic immunization with adeno–associated virus vectors expressing herpes simplex virus type 2 glycoproteins B and D. Manning WC, et al. **J Virol** 1997 Oct;71(10):7960–2

Foot–and–mouth disease virus 2A protease mediates cleavage in attenuated Sabin 3 poliovirus vectors engineered for delivery of foreign antigens. Mattion NM, et al. **J Virol** 1996 Nov;70(11):8124–7

Evaluation of the concentration and bioactivity of adenovirus vectors for gene therapy. Mittereder N, et al. **J Virol** 1996 Nov;70(11):7498–509

Transcriptional targeting of herpes simplex virus for cell–specific replication. Miyatake S, et al. **J Virol** 1997 Jul;71(7):5124–32

The pCL vector system: rapid production of helper–free, high–titer, recombinant retroviruses. Naviaux RK, et al. **J Virol** 1996 Aug;70(8):5701–5

A helper–dependent system for adenovirus vector production helps define a lower limit for efficient DNA packaging. Parks RJ, et al. **J Virol** 1997 Apr;71(4):3293–8

Infectious RNA transcripts from full–length dengue virus type 2 cDNA clones made in yeast. Polo S, et al. **J Virol** 1997 Jul;71(7):5366–74

Adeno–associated virus type 2–mediated transduction of murine hematopoietic cells with long–term repopulating ability and sustained expression of a human globin gene in vivo. Ponnazhagan S, et al. **J Virol** 1997 Apr; 71(4):3098–104

Adeno–associated virus type 2–mediated transfer of ecotropic retrovirus receptor cDNA allows ecotropic retroviral transduction of established and primary human cells. Qing K, et al. **J Virol** 1997 Jul;71(7):5663–7

Conditional repression of the E2 transcription unit in E1–E3–deleted adenovirus vectors is correlated with a strong reduction in viral DNA replication and late gene expression in vitro. Rittner K, et al. **J Virol** 1997 Apr; 71(4):3307–11

Self–deleting retrovirus vectors for gene therapy. Russ AP, et al. **J Virol** 1996 Aug;70(8):4927–32

Characterization of humoral and CD4+ cellular responses after genetic immunization with retroviral vectors expressing different forms of the hepatitis B virus core and e antigens. Sällberg M, et al. **J Virol** 1997 Jul; 71(7):5295–303

Defective herpes simplex virus type 1 vectors harboring gag, pol, and env genes can be used to rescue defective retrovirus vectors. Savard N, et al. **J Virol** 1997 May; 71(5):4111–7

Selective targeting of human cells by a chimeric adenovirus vector containing a modified fiber protein. Stevenson SC, et al. **J Virol** 1997 Jun;71(6):4782–90

Protection of mice from respiratory Sendai virus infections by recombinant vaccinia viruses. Takao SI, et al. **J Virol** 1997 Jan;71(1):832–8

Development of high–titer retroviral producer cell lines by using Cre–mediated recombination. Vanin EF, et al. **J Virol** 1997 Oct;71(10):7820–6

Adenovirus vector–infected cells can escape adenovirus antigen–specific cytotoxic T–lymphocyte killing in vivo. Wadsworth SC, et al. **J Virol** 1997 Jul;71(7):5189–96

A hybrid herpesvirus infectious vector based on Epstein–Barr virus and herpes simplex virus type 1 for gene transfer into human cells in vitro and in vivo. Wang S, et al. **J Virol** 1996 Dec;70(12):8422–30

Targeted adenovirus–mediated gene delivery to T cells via CD3. Wickham TJ, et al. **J Virol** 1997 Oct;71(10):7663–9

Enhancement of in vivo adenovirus–mediated gene transfer and expression by prior depletion of tissue macrophages in the target organ. Wolff G, et al. **J Virol** 1997 Jan; 71(1):624–9

Efficient long–term gene transfer into muscle tissue of immunocompetent mice by adeno–associated virus vector. Xiao X, et al. **J Virol** 1996 Nov;70(11):8098–108

Role of viral antigens in destructive cellular immune responses to adenovirus vector–transduced cells in mouse lungs. Yang Y, et al. **J Virol** 1996 Oct;70(10):7209–12

Adenovirus–mediated gene transfer to ciliated airway epithelia requires prolonged incubation time. Zabner J, et al. **J Virol** 1996 Oct;70(10):6994–7003

Development of a complementing cell line and a system for construction of adenovirus vectors with E1 and E2a deleted. Zhou H, et al. **J Virol** 1996 Oct;70(10):7030–8

A new vector for efficient generation of p10–single–late–promoter recombinant baculoviruses. Chaabihi H, et al. **J Virol Methods** 1997 Jan;63(1–2):1–7

Improved detection of replication–competent retrovirus. Forestell SP, et al. **J Virol Methods** 1996 Jul;60(2):171–8

Generation, validation, and large scale production of adenoviral recombinants with large size inserts such as a 6.3 kb human dystrophin cDNA. Jani A, et al. **J Virol Methods** 1997 Mar;64(2):111–24

Detection of baculovirus gene expression in insect cells and larvae by low light video image analysis. Langridge WH, et al. **J Virol Methods** 1996 Sep;61(1–2):151–6

Rescue of measles virus using a replication–deficient vaccinia–T7 vector. Schneider H, et al. **J Virol Methods** 1997 Feb;64(1):57–64

A baculovirus vector derived from immediately early gene promoter of Autographa californica nuclear polyhedrosis virus. Zhu FX, et al. **J Virol Methods** 1996 Oct;62(1):71–9

Gene transfer to the patellar tendon. Gerich TG, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(2):118–23

Herpes simplex virus and risk of Alzheimer's disease [letter; comment] Latchman DS. **Lancet** 1997 Apr 12; 349(9058):1101; discussion 1101–2. Comment on: Lancet 1997 Jan 25;349(9047):241–4.

The 30/35 kDa chymotryptic fragment of fibronectin enhances retroviral–mediated gene transfer in purified chronic myelogenous leukemia bone marrow progenitors. Traycoff CM, et al. **Leukemia** 1997 Jan;11(1):159–67

Development of recombinant adenoviruses that drive high level expression of the human metalloproteinase–9 and tissue inhibitor of metalloproteinase–1 and –2 genes: characterization of their infection into rabbit smooth muscle cells and human MCF–7 adenocarcinoma cells. Baker AH, et al. **Matrix Biol** 1996 Dec;15(6):383–95

Adenoviral delivery of low–density lipoprotein receptors to hyperlipidemic rabbits: receptor expression modulates high–density lipoproteins. Brown DR, et al. **Metabolism** 1996 Dec;45(12):1447–57

Screening of peptide libraries linked to lac repressor. Schatz PJ, et al. **Methods Enzymol** 1996;267:171–91

Isolation of genetic suppressor elements (GSEs) from random fragment cDNA libraries in retroviral vectors. Gudkov AV, et al. **Methods Mol Biol** 1997;69:221–40

DNA rescue by the vectorette method. McAleer MA, et al. **Methods Mol Biol** 1996;65:201–8

Use of baculovirus expression vectors. O'Reilly DR. **Methods Mol Biol** 1997;62:235–46

CDNA library construction for the Lambda ZAP–based vectors. Snead MA, et al. **Methods Mol Biol** 1997;69:39–51

Clone excision methods for the Lambda ZAP–based vectors. Snead MA, et al. **Methods Mol Biol** 1997;69:53–60

Local transient induction of inflammatory cytokines after intranasal administration of recombinant Bordetella pertussis. Remoué F, et al. **Microb Pathog** 1997 May; 22(5):305–13

Vectors for inducible expression of toxic gene products in bloodstream and procyclic Trypanosoma brucei. Biebinger S, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):99–112

Tetracycline–controlled gene expression in Entamoeba histolytica. Hamann L, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):83–91

Functional characterization of a glycine 185–to–valine substitution in human P–glycoprotein by using a vaccinia–based transient expression system. Ramachandra M, et al. **Mol Biol Cell** 1996 Oct;7(10):1485–98

Replication–competent retroviral vectors for expressing genes in avian cells in vitro and in vivo. Bell EJ, et al. **Mol Biotechnol** 1997 Jun;7(3):289–98 (45 ref.)

Manipulating photosynthesis. Knight JS, et al. **Mol Biotechnol** 1996 Dec;6(3):335–45

High–level expression of a cDNA for human granulocyte colony–stimulating factor in Chinese hamster ovary cells. Effect of 3'–noncoding sequences. Rotondaro L, et al. **Mol Biotechnol** 1997 Jun;7(3):231–40

Transfection techniques for producing recombinant baculoviruses. Trotter KM, et al. **Mol Biotechnol** 1996 Dec; 6(3):329–34

Retroviral vectors. From laboratory tools to molecular medicine. Vile RG, et al. **Mol Biotechnol** 1996 Apr; 5(2):139–58 (115 ref.)

Targeted vectors for gene therapy of cancer and retroviral infections. Walther W, et al. **Mol Biotechnol** 1996 Dec; 6(3):267–86 (66 ref.)

Ectopic gene targeting exhibits a bimodal distribution of integration in murine cells, indicating that both intra– and interchromosomal sites are accessible to the targeting vector. Dellaire G, et al. **Mol Cell Biol** 1997 Sep; 17(9):5571–80

Recombination induced by triple–helix–targeted DNA damage in mammalian cells. Faruqi AF, et al. **Mol Cell Biol** 1996 Dec;16(12):6820–8

Integration of an insertion–type transferred DNA vector from Agrobacterium tumefaciens into the Saccharomyces cerevisiae genome by gap repair. Risseeuw E, et al. **Mol Cell Biol** 1996 Oct;16(10):5924–32

Expression of the mouse dihydrofolate reductase complementary deoxyribonucleic acid in simian virus 40 vectors. Subramani S, et al. **Mol Cell Biol** 1981 Sep; 1(9):854–64

Regulated release and polarized localization of brain–derived neurotrophic factor in hippocampal neurons. Goodman LJ, et al. **Mol Cell Neurosci** 1996 Mar;7(3):222–38

Adenovirus–mediated gene transfer of dominant negative ras(asn17) in 3T3L1 adipocytes does not alter insulin–stimulated P13–kinase activity or glucose transport. Gnudi L, et al. **Mol Endocrinol** 1997 Jan;11(1):67–76

The role of interleukin–2 in combination adenovirus gene therapy for head and neck cancer. O'Malley BW Jr, et al. **Mol Endocrinol** 1997 Jun;11(6):667–73

A suicide vector for allelic recombination involving the gene for glutamate 1–semialdehyde aminotransferase in the cyanobacterium Synechococcus PCC 7942. Allison G, et al. **Mol Gen Genet** 1997 Jul;255(4):392–9

Bacterial vector for cancer therapy [news] Stewart A. **Mol Med Today** 1997 Apr;3(4):141

Generation of unmarked directed mutations in mycobacteria, using sucrose counter–selectable suicide vectors. Pelicic V, et al. **Mol Microbiol** 1996 Jun;20(5):919–25

An improved version of suicide vector pKNG101 for gene replacement in gram–negative bacteria [letter] Sarker MR, et al. **Mol Microbiol** 1997 Jan;23(2):410–1

Unexpected behavior of a gene trap vector comprising a fusion between the Sh ble and the lacZ genes. Camus A, et al. **Mol Reprod Dev** 1996 Nov;45(3):255–63

Cell–specific targeting of Sindbis virus vectors displaying IgG–binding domains of protein A. Ohno K, et al. **Nat Biotechnol** 1997 Aug;15(8):763–7

Short–order Sindbis vector targeting [news] Wickham T. **Nat Biotechnol** 1997 Aug;15(8):717

Functional genomics in mice by tagged sequence mutagenesis. Hicks GG, et al. **Nat Genet** 1997 Aug;

16(4):338–44
Persistent and therapeutic concentrations of human factor IX in mice after hepatic gene transfer of recombinant AAV vectors. Snyder RO, et al. **Nat Genet** 1997 Jul;16(3):270–6
Retrovirus-mediated p53 gene therapy [letter] Estreicher A, et al. **Nat Med** 1996 Nov;2(11):1163
Engineering herpes simplex virus vectors for gene transfer to neurons. Fink DJ, et al. **Nat Med** 1997 Mar;3(3):357–9
Recombinant adeno-associated virus for muscle directed gene therapy. Fisher KJ, et al. **Nat Med** 1997 Mar; 3(3):306–12
Vaccination onto bare skin [letter] Tang DC, et al. **Nature** 1997 Aug 21;388(6644):729–30
Gene therapy — promises, problems and prospects [news] Verma IM, et al. **Nature** 1997 Sep 18;389(6648):239–42
Adenovirus mediated gene transfer in organotypic brain slices. Ridoux V, et al. **Neurobiol Dis** 1995 Feb;2(1):49–54
Expression, purification and characterization of recombinant C. Elegans UNC-18. Ogawa H, et al. **Neurochem Int** 1996 Nov;29(5):553–63
Strategies to accomplish targeted gene delivery to muscle cells employing tropism-modified adenoviral vectors. Douglas JT, et al. **Neuromuscul Disord** 1997 Jul;7(5):284–98 (98 ref.)
Canine fucosidosis: a model for retroviral gene transfer into haematopoietic stem cells. Ferrara ML, et al. **Neuromuscul Disord** 1997 Jul;7(5):361–6
Improved adenoviral vectors for gene therapy of Duchenne muscular dystrophy. Hauser MA, et al. **Neuromuscul Disord** 1997 Jul;7(5):277–83
Gene transfer to muscle using herpes simplex virus-based vectors. Huard J, et al. **Neuromuscul Disord** 1997 Jul; 7(5):299–313 (101 ref.)
Alteration of GABAA receptor function following gene transfer of the CLC-2 chloride channel. Staley K, et al. **Neuron** 1996 Sep;17(3):543–51
Efficient gene expression in mammalian clock pacemaker cell in vitro by an adenovirus vector. Yamazaki N, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):193–6
Cellular and molecular neurosurgery: pathways from concept to reality--part II: vector systems and delivery methodologies for gene therapy of the central nervous system. Zlokovic BV, et al. **Neurosurgery** 1997 Apr; 40(4):805–12; discussion 812–3 (51 ref.)
Delivery of bacterial artificial chromosomes into mammalian cells with psoralen-inactivated adenovirus carrier. Baker A, et al. **Nucleic Acids Res** 1997 May 15;25(10):1950–6
Representation of cloned genomic sequences in two sequencing vectors: correlation of DNA sequence and subclone distribution. Chissoe SL, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):2960–6
Evidence for the stochastic integration of gene trap vectors into the mouse germline. Chowdhury K, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1531–6
A novel tetracycline-dependent expression vector with low basal expression and potent regulatory properties in various mammalian cell lines. Hoffmann A, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1078–9
An episomal vector for stable tetracycline-regulated gene expression. Jost M, et al. **Nucleic Acids Res** 1997 Aug 1; 25(15):3131–4
A new peptide vector for efficient delivery of oligonucleotides into mammalian cells. Morris MC, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2730–6
Glyoxal, a major product of DNA oxidation, induces mutations at G:C sites on a shuttle vector plasmid replicated in mammalian cells. Murata-Kamiya N, et al. **Nucleic Acids Res** 1997 May 15;25(10):1897–902
Efficient recovery and regeneration of integrated retroviruses. Schott B, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2940–2
Replication bypass and mutagenic effect of alpha-deoxyadenosine site-specifically incorporated into single-stranded vectors. Shimizu H, et al. **Nucleic Acids Res** 1997 Feb 1;25(3):597–603
A shuttle system for transfer of YACs between yeast and mammalian cells. Simpson K, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4693–9
Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse. Storck T, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4594–6
Introduction of the negative selection marker into replacement vectors by a single ligation step. Tzimagiorgis G, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3476–7
Inhibition of experimental proliferative vitreoretinopathy by retroviral vector-mediated transfer of suicide gene. Can proliferative vitreoretinopathy be a target of gene therapy?[see comments] Sakamoto T, et al. **Ophthalmology** 1995 Oct;102(10):1417–24. Comment in: Ophthalmology 1995 Oct;102(10):1415–6.
Surfactant protein A-producing cells in human fetal lung are good targets for recombinant adenovirus-mediated gene transfer. Messina E, et al. **Pediatr Res** 1996 Jul; 40(1):142–7
Adenovirus-mediated in vivo gene transfer rapidly protects ornithine transcarbamylase-deficient mice from an ammonium challenge. Ye X, et al. **Pediatr Res** 1997 Apr; 41(4 Pt 1):527–34
Use of a bicistronic GFP-expression vector to characterise ion channels after transfection in mammalian cells. Trouet D, et al. **Pflugers Arch** 1997 Sep;434(5):632–8
N-acyl-(alpha, gamma diaminobutyric acid)n hydrazide as an efficient gene transfer vector in mammalian cells in culture. Legendre JY, et al. **Pharm Res** 1997 May; 14(5):619–24
Integration of T-DNA binary vector 'backbone' sequences into the tobacco genome: evidence for multiple complex patterns of integration. Kononov ME, et al. **Plant J** 1997 May;11(5):945–57
Introduction and expression of foreign DNA in isolated spinach chloroplasts by electroporation. To KY, et al. **Plant J** 1996 Oct;10(4):737–43
Ds excision from extrachromosomal geminivirus vector DNA is coupled to vector DNA replication in maize. Wirtz U, et al. **Plant J** 1997 Jan;11(1):125–35
Frequent collinear long transfer of DNA inclusive of the whole binary vector during Agrobacterium-mediated transformation. Wenck A, et al. **Plant Mol Biol** 1997 Aug; 34(6):913–22
An expression vector encoding a lacZ reporter gene facilitates identification of stable, high-producing CHO cell clones. Grossman TH, et al. **Plasmid** 1997;37(2):155–8
Synthetic virus-like gene transfer system. Szala S. **Postepy Biochem** 1995;41(5 Suppl):318–21 (22 ref.)
The application of genetically engineered herpes simplex viruses to the treatment of experimental brain tumors. Andreansky SS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11313–8 (53 ref.)
Adenovirus-mediated interleukin-12 gene therapy for metastatic colon carcinoma. Caruso M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11302–6
Generation of packaging cell lines for pseudotyped retroviral vectors of the G protein of vesicular stomatitis virus by using a modified tetracycline inducible system. Chen ST, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10057–62
Safety-modified episomal vectors for human gene therapy. Cooper MJ, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6450–5
Efficient gene transfer by a human immunodeficiency virus type 1 (HIV-1)-derived vector utilizing a stable HIV packaging cell line. Corbeau P, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14070–5
A conditionally replicating HIV-1 vector interferes with wild-type HIV-1 replication and spread. Dropulić B, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11103–8
Use of virion DNA as a cloning vector for the construction of mutant and recombinant herpesviruses. Duboise SM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11389–94
Fusigenic viral liposome for gene therapy in cardiovascular diseases [comment] Dzau VJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11421–5 (27 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Oct 15;983(21):11615–7.
Alphavirus-based expression vectors: strategies and applications. Frolov I, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11371–7 (72 ref.)
Persistent expression of human clotting factor IX from mouse liver after intravenous injection of adeno-associated virus vectors. Koeberl DD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1426–31
Production of infectious recombinant Moloney murine leukemia virus particles in BHK cells using Semliki Forest virus-derived RNA expression vectors. Li KJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11658–63
Site-specific integration by adeno-associated virus. Linden RM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11288–94 (37 ref.)
Replication-defective herpes simplex virus vectors for gene transfer in vivo. Marconi P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11319–20 (13 ref.)
Specific infection of CD4+ target cells by recombinant rabies virus pseudotypes carrying the HIV-1 envelope spike protein. Mebatsion T, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11366–70
Stable and efficient gene transfer into the retina using an HIV-based lentiviral vector. Miyoshi H, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10319–23
Genetically engineered poxviruses for recombinant gene expression, vaccination, and safety. Moss B. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11341–8 (180 ref.)
Efficient transfer, integration, and sustained long-term expression of the transgene in adult rat brains injected with a lentiviral vector. Naldini L, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11382–8
Gene transfer by guanidinium-cholesterol cationic lipids into airway epithelial cells in vitro and in vivo. Oudrhiri N, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1651–6
Genetic engineering of viruses and of virus vectors: a preface. Palese P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11287
Applications of pox virus vectors to vaccination: an update. Paoletti E. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11349–53 (34 ref.)
A helper-dependent adenovirus vector system: removal of helper virus by Cre-mediated excision of the viral packaging signal. Parks RJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13565–70
Development of HIV vectors for anti-HIV gene therapy. Poeschla E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11395–9 (50 ref.)
NOMAD: a versatile strategy for in vitro DNA manipulation applied to promoter analysis and vector design. Rebatchouk D, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):10891–6
Epstein-Barr virus vectors for gene delivery to B lymphocytes. Robertson ES, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11334–40
The function of herpes simplex virus genes: a primer for genetic engineering of novel vectors. Roizman B. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11307–12 (45 ref.)
Foreign glycoproteins expressed from recombinant vesicular stomatitis viruses are incorporated efficiently into virus particles. Schnell MJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11359–65
Pseudotyping of murine leukemia virus with the envelope glycoproteins of HIV generates a retroviral vector with specificity of infection for CD4-expressing cells. Schnierle BS, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8640–5
Efficient infection of a human T-cell line and of human primary peripheral blood leukocytes with a pseudotyped retrovirus vector. Sharma S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11842–7
Antigen presentation in retroviral vector-mediated gene transfer in vivo. Song ES, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1943–8
pFab60: a new, efficient vector for expression of antibody Fab fragments displayed on phage. Johansen LK, et al. **Protein Eng** 1995 Oct;8(10):1063–7
Engineering a de novo-designed coiled-coil heterodimerization domain off the rapid detection, purification and characterization of recombinantly expressed peptides and proteins [published erratum appears in Protein Eng 1997 Mar;10(3):299] Tripet B, et al. **Protein Eng** 1996 Nov;9(11):1029–42
Improved adenoviral vectors: cautious optimism for gene therapy. Channon KM, et al. **QJM** 1997 Feb;90(2):105–9 (42 ref.)
Effect of subunit composition on GABAA receptor complex characteristics in a baculovirus expression system. Hartnett C, et al. **Receptors Channels** 1996;4(3):179–95
Selection of antigens for use in a virus-vectored immunocontraceptive vaccine: PH-20 as a case study. Holland MK, et al. **Reprod Fertil Dev** 1997;9(1):117–24 (22 ref.)
Progress towards using recombinant myxoma virus as a vector for fertility control in rabbits. Robinson AJ, et al. **Reprod Fertil Dev** 1997;9(1):77–83 (43 ref.)
Development and use of virus-vectored immunocontraception. Williams CK. **Reprod Fertil Dev** 1997;9(1):169–78 (23 ref.)
An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries. Burioni R, et al. **Res Virol** 1997 Mar-Apr;148(2):161–4
Human monoclonal recombinant Fabs specific for HCV antigens obtained by repertoire cloning in phage display combinatorial vectors. Plaisant P, et al. **Res Virol** 1997 Mar-Apr;148(2):165–9
Use of adenoviral VAI small RNA as a carrier for cytoplasmic delivery of ribozymes. Prislei S, et al. **RNA** 1997 Jun;3(6):677–87
Nonviral strategies for gene therapy. Felgner PL. **Sci Am** 1997 Jun;276(6):102–6
Panel approves gene trial for "normals" [news] [published erratum appears in Science 1997 Apr 11;276(5310):185] Marshall E. **Science** 1997 Mar 14;275(5306):1561
A bitter battle over insulin gene [news] Marshall E. **Science** 1997 Aug 22;277(5329):1028–30
Biological principles and clinical development of prostate cancer gene therapy. Sanda MG. **Semin Urol Oncol** 1997 Feb;15(1):43–55 (77 ref.)
Effects of infection rate and selection pressure on gene expression from an internal promoter of a double gene retroviral vector. Schott B, et al. **Somat Cell Mol Genet** 1996 Jul;22(4):291–309
Introduction of human adenomatous polyposis coli gene into Min mice via cationic liposomes. Arenas RB, et al. **Surgery** 1996 Oct;120(4):712–7; discussion 717–8
Adenovirus-mediated transfer of tissue-type plasminogen activator gene to human endothelial cells. Sugawara Y, et al. **Surgery** 1997 Jul;122(1):91–100
Cardiovascular gene therapy: current concepts. Fox JC. **Ther Drug Monit** 1996 Aug;18(4):410–22 (110 ref.)
Vascular gene therapy in the 21st century. Clowes AW. **Thromb Haemost** 1997 Jul;78(1):605–10 (70 ref.)
Viral vector-mediated gene therapy for hemophilia B. Eisensmith RC, et al. **Thromb Haemost** 1997 Jul;78(1):24–30 (81 ref.)
Cloning and expression of a cysteine-rich venom protein from Trimeresurus mucrosquamatus (Taiwan habu). Chang TY, et al. **Toxicon** 1997 Jun;35(6):879–88
Enhanced selection for homologous-recombinant embryonic stem cell clones with a neomycin phosphotransferase gene in antisense orientation. Skryabin BV, et al. **Transgenic Res** 1997 Jan;6(1):27–35
Evidence that the adenoviral vector containing the CTLA4-Ig gene improves transgene expression and graft survival. Namii Y, et al. **Transplant Proc** 1997 May; 29(3):1738–9
Ex vivo adenovirus-mediated gene delivery leads to long-term expression in pancreatic islet transplants. Muruve DA, et al. **Transplantation** 1997 Aug 15;64(3):542–6

A nonviral vector system for efficient gene transfer to corneal endothelial cells via membrane integrins. Shewring L, et al. **Transplantation** 1997 Sep 15;64(5):763–9

Methods and reagents. Protecting vector DNA from UV light. Hengen PN. **Trends Biochem Sci** 1997 May; 22(5):182–3

The potential of extrachromosomal replicating vectors for gene therapy. Calos MP. **Trends Genet** 1996 Nov; 12(11):463–6 (32 ref.)

Adenovirus-mediated suicide gene therapy for experimental bladder cancer. Sutton MA, et al. **Urology** 1997 Feb; 49(2):173–80

Comparison between hepatitis B surface antigen (HBsAg) particles derived from mammalian cells (CHO) and yeast cells (Hansenula polymorpha): composition, structure and immunogenicity. Diminsky D, et al. **Vaccine** 1997 Apr–May;15(6–7):637–47

Development of improved vectors for DNA-based immunization and other gene therapy applications. Norman JA, et al. **Vaccine** 1997 Jun;15(8):801–3

Induction of feline immunodeficiency virus specific antibodies in cats with an attenuated Salmonella strain expressing the Gag protein. Tijhaar EJ, et al. **Vaccine** 1997 Apr–May;15(6–7):587–96

RSF1010-based shuttle vectors for cloning and expression in Pasteurella multocida. Lee MD, et al. **Vet Microbiol** 1997 Mar;54(3–4):369–74

Adenovirus-mediated transfer of human factor IX gene in immunodeficient and normal mice: evidence for prolonged stability and activity of the transgene in liver. Yao SN, et al. **Viral Immunol** 1996;9(3):141–53

Gene transfer using replication-defective human foamy virus vectors. Bieniasz PD, et al. **Virology** 1997 Aug 18; 235(1):65–72

Tobamovirus cross protection using a potexvirus vector. Culver JN. **Virology** 1996 Dec 15;226(2):228–35

Induction of systemic and mucosal immune responses in cotton rats immunized with human adenovirus type 5 recombinants expressing the full and truncated forms of bovine herpesvirus type 1 glycoprotein gD. Mittal SK, et al. **Virology** 1996 Aug 15;222(2):299–309

Transduction of the human immunodeficiency virus type 1 promoter into human chromosomal DNA by adeno-associated virus: effects on promoter activity. Nahreini P, et al. **Virology** 1997 Jul 21;234(1):42–50

Use of cis- and trans-acting viral regulatory sequences to improve expression of human immunodeficiency virus vectors in human lymphocytes. Parolin C, et al. **Virology** 1996 Aug 15;222(2):415–22

Expression of the GB virus C E2 glycoprotein using the Semliki Forest virus vector system and its utility as a serologic marker. Pilot-Matias TJ, et al. **Virology** 1996 Nov 15;225(2):282–92

Rev/RRE-independent Mason-Pfizer monkey virus constitutive transport element-dependent propagation of SIVmac239 vectors using a single round of replication assay. Rizvi TA, et al. **Virology** 1996 Aug 15;222(2):457–63

DNA replication of wheat dwarf geminivirus vectors: effects of origin structure and size. Suárez-López P, et al. **Virology** 1997 Jan 20;227(2):389–99

Variable transduction efficiency of murine leukemia retroviral vector on mammalian cells: role of cellular glycosylation. Tavoloni N, et al. **Virology** 1997 Mar 3; 229(1):49–56

Inducible gene expression of the human immunodeficiency virus LTR in a replication-incompetent herpes simplex virus vector. Warden MP, et al. **Virology** 1996 Dec 1; 226(1):127–31

Expression of interferon-gamma by a coronavirus defective-interfering RNA vector and its effect on viral replication, spread, and pathogenicity. Zhang X, et al. **Virology** 1997 Jul 7;233(2):327–38

Human immunodeficiency virus type 1 Rev-dependent effects on the late gene expression of recombinant human adenovirus. Williams RD, et al. **Virus Genes** 1996; 13(2):111–20

New vectors for combinatorial deletions in yeast chromosomes and for gap-repair cloning using 'split-marker' recombination. Fairhead C, et al. **Yeast** 1996 Nov;12(14):1439–57

A set of vectors with a tetracycline-regulatable promoter system for modulated gene expression in Saccharomyces cerevisiae. Gari E, et al. **Yeast** 1997 Jul;13(9):837–48

[Expression of cDNA of human chorionic gonadotropin beta-subunit (beta-hCG) cDNA in insect cells and effect of expressed product on mouse lymphocytes in vitro] Shen QX, et al. **Shih Yen Sheng Wu Hsueh Pao** 1996 Mar; 29(1):95–100 (Eng. Abstr.) **(Chi)**

[New strategy for RNA vectorization in mammalian cells. Use of a peptide vector] Vidal P, et al. **C R Acad Sci III** 1997 Apr;320(4):279–87 (Eng. Abstr.) **(Fre)**

[Development of adenoviral vectors in gene therapy: application to gene transfer in muscles] Ragot T, et al. **C R Seances Soc Biol Fil** 1996;190(1):13–31 (37 ref.) (Eng. Abstr.) **(Fre)**

[Selection of retroviral vector producing cell lines and gene transfer into hematopoietic cells] Bagnis C, et al. **Hematol Cell Ther** 1996 Apr;38(2):207–9 (Eng. Abstr.) **(Fre)**

[Adenovirus gene therapy for liver metastases of gastrointestinal tumors. Development status and future prospectives] Block A, et al. **Dtsch Med Wochenschr** 1997 May 30;122(22):728–32 (17 ref.) **(Ger)**

[Development of non-viral gene delivery system and its applications] Kaneda Y. **Nippon Rinsho** 1996 Oct; 54(10):2829–38 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Problems of gene transfer to human airway in the patients with respiratory diseases] Ohwada A. **Nippon Rinsho** 1996 Feb;54(2):329–33 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Use of Salmonellas as a vector in the designing of recombinant vaccines] Boĭchenko MN, et al. **Vestn Ross Akad Med Nauk** 1997;(3):43–6 (28 ref.) **(Rus)**

[Nonviral methods of gene transfer in gene therapy] Zhdanov RI, et al. **Vopr Med Khim** 1997 Jan–Feb;43(1):3–12 (100 ref.) (Eng. Abstr.) **(Rus)**

[Retrovirus and human diseases: etiologic agents as therapeutic instruments (editorial)] García Hernández B, et al. **Med Clin (Barc)** 1996 Jul 6;107(6):215–7 **(Spa)**

[Manipulation of genes causing diseases] Monckeberg F. **Rev Med Chil** 1996 Mar;124(3):371–6 (28 ref.) (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

Long-term gene transfer in porcine myocardium after coronary infusion of an adeno-associated virus vector. Kaplitt MG, et al. **Ann Thorac Surg** 1996 Dec;62(6):1669–76

Adenovirus-assisted lipofection: efficient in vitro gene transfer of luciferase and cytosine deaminase to human smooth muscle cells. Kreuzer J, et al. **Atherosclerosis** 1996 Jul;124(1):49–60

Evidence for localization of biologically active recombinant retroviral vector to lymph nodes in mice injected intramuscularly. Kamantigue E, et al. **Gene Ther** 1996 Feb; 3(2):128–36

Safety and efficacy of in vivo gene transfer into the porcine heart with replication-deficient, recombinant adenovirus vectors. Mühlhauser J, et al. **Gene Ther** 1996 Feb; 3(2):145–53

Biological response of nonhuman primates to long-term repeated lung exposure to Ad2/CFTR-2. St George JA, et al. **Gene Ther** 1996 Feb;3(2):103–16

Treatment of advanced CNS malignancies with the recombinant adenovirus H5.010RSVTK: a phase I trial. Eck SL, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1465–82

Exogenous surfactant enhances the delivery of recombinant adenoviral vectors to the lung. Katkin JP, et al. **Hum Gene Ther** 1997 Jan 20;8(2):171–6

Safety of airway gene transfer with Ad2/CFTR2: aerosol administration in the nonhuman primate. McDonald RJ, et al. **Hum Gene Ther** 1997 Mar 1;8(4):411–22

Adenovirus-mediated hepatic gene transfer in mice: comparison of intravascular and biliary administration. Peeters MJ, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1693–9

Antisense inhibition and adeno-associated viral vector delivery for reducing hypertension. Phillips MI. **Hypertension** 1997 Jan;29(1 Pt 2):177–87

In vivo engineering of a cellular immune response by coadministration of IL-12 expression vector with a DNA immunogen. Kim JJ, et al. **J Immunol** 1997 Jan 15; 158(2):816–26

Plasmid-mediated gene transfer in neurons using the biolistics technique. Biewenga JE, et al. **J Neurosci Methods** 1997 Jan;71(1):67–75 (45 ref.)

Testing gene therapy vectors in healthy volunteers [news] Featherstone C. **Mol Med Today** 1997 Jul;3(7):277

Long-term expression of erythropoietin in the systemic circulation of mice after intramuscular injection of a plasmid DNA vector. Tripathy SK, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10876–80

ADVERSE EFFECTS

Replication-deficient adenoviral vector for gene transfer potentiates airway neurogenic inflammation. Piedimonte G, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):250–8

Neurotoxicity of intracerebral injection of a replication-defective adenoviral vector in a semipermissive species (cotton rat). Shine HD, et al. **Gene Ther** 1997 Apr; 4(4):275–9

Safety of intrapleurally administered recombinant adenovirus carrying herpes simplex thymidine kinase DNA followed by ganciclovir therapy in nonhuman primates. Kucharczuk JC, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2225–33

Vasomotor dysfunction early after exposure of normal rabbit arteries to an adenoviral vector. Lafont A, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1033–40

BIOSYNTHESIS

Construction of a shuttle vector for use in Francisella tularensis. Norqvist A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):257–60

Optimized conditions for the production of recombinant amphotropic retroviral vector preparations. Kaptein LC, et al. **Gene Ther** 1997 Feb;4(2):172–6

Episomal vectors rapidly and stably produce high-titer recombinant retrovirus. Kinsella TM, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1405–13

Comparative studies of bacterially expressed integrase proteins of caprine arthritis–encephalitis virus, maedi–visna virus and human immunodeficiency virus type 1. Störmann KD, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1651–63

Construction and oral immunogenicity of a Salmonella typhimurium strain expressing a streptococcal adhesin linked to the A2/B subunits of cholera toxin. Hajishengallis G, et al. **Vaccine** 1996 Nov;14(16):1545–8

CHEMICAL SYNTHESIS

Expression of a synthetic pertussis toxin operon in Escherichia coli. Pozza TD, et al. **Vaccine** 1997 Jun; 15(9):968–75

CHEMISTRY

Modifications of vectors pEF-BOS, pcDNA1 and pcDNA3 result in improved convenience and expression. Goldman LA, et al. **Biotechniques** 1996 Dec;21(6):1013–5

A homologous and self-replicating system for efficient transformation of Fusarium oxysporum. Garcia-Pedrajas MD, et al. **Curr Genet** 1996 Jan;29(2):191–8

Potential of chimaeric plant virus particles as novel, stable vaccines. Xu F, et al. **Dev Biol Stand** 1996;87:201–5

Transduction of human hematopoietic cells and cell lines using a retroviral vector containing a modified murine CD4 reporter gene. Bauer TR Jr, et al. **Hum Gene Ther** 1997 Feb 10;8(3):243–52

Characterization of vectors for gene therapy formed by self-assembly of DNA with synthetic block co-polymers. Wolfert MA, et al. **Hum Gene Ther** 1996 Nov 10; 7(17):2123–33

pPV: a novel IRES-containing vector to facilitate plasmid immunization and antibody response characterization. Clarke NJ, et al. **Immunotechnology** 1997 Jun;3(2):145–53

Development of a procedure for the direct cloning of T-cell epitopes using bacterial expression systems. Neophytou PI, et al. **J Immunol Methods** 1996 Sep 13;196(1):63–72

Versatile retrovirus vector systems for regulated gene expression in vitro and in vivo. Lindemann D, et al. **Mol Med** 1997 Jul;3(7):466–76

CLASSIFICATION

[SLTR, a new family of retroviral vectors for gene transduction] Choulika A, et al. **C R Seances Soc Biol Fil** 1996;190(1):153–8 (17 ref.) (Eng. Abstr.) **(Fre)**

DRUG EFFECTS

Mutational specificity of the syn 1,2-dihydrodiol 3,4-epoxide of 5-methylchrysene. Page JE, et al. **Cancer Lett** 1996 Dec 20;110(1–2):249–52

GENETICS

Expression of feline immunodeficiency virus (FIV) gag gene in vaccinia virus vector. Wojcik J. **Acta Microbiol Pol** 1995; 44(2):191–6

Human adenovirus vectors for gene transfer into mammalian cells. Hitt MM, et al. **Adv Pharmacol** 1997;40:137–206 (445 ref.)

Modulation of adenovirus-mediated gene transfer by nitric oxide [see comments] Haddad IY, et al. **Am J Respir Cell Mol Biol** 1997 May;16(5):501–9. Comment in: Am J Respir Cell Mol Biol 1997 May;16(5):495–6.

Ex vivo adenoviral-mediated gene transfer to lung isografts during cold preservation [see comments] Boasquevisque CH, et al. **Ann Thorac Surg** 1997 Jun;63(6):1556–61. Comment in: Ann Thorac Surg 1997 Jun;63(6):1527–8.

Experimental bronchiolitis obliterans induced by in vivo HVJ-liposome-mediated endothelin-1 gene transfer [see comments] Takeda S, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1562–7. Comment in: Ann Thorac Surg 1997 Jun;63(6):1527–8.

In vivo adenovirus-mediated p53 tumor suppressor gene therapy for colorectal cancer. Spitz FR, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3415–22

Controlled gene expression systems for Lactococcus lactis with the food-grade inducer nisin. de Ruyter PG, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3662–7

Adenoviral vector infection of the human exocrine pancreas. Vickers SM, et al. **Arch Surg** 1997 Sep;132(9):1006–9

Expression of transgenes in human and rat retinal pigment epithelium in vitro using an adenoviral vector. da Cruz L, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):78–81

Construction of the plasmid PMEX8-HAK1 and random site-directed mutagenesis of human cytosolic adenylate kinase. Ayabe T, et al. **Biochem Mol Biol Int** 1996 Feb; 38(2):373–81

Baculovirus-mediated high level expression of a human thiopurine methyl transferase. Jackson H, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):357–64

Retroviral vector-mediated transfer of the galactocerebrosidase (GALC) cDNA leads to overexpression and transfer of GALC activity to neighboring cells. Rafi MA, et al. **Biochem Mol Med** 1996 Aug;58(2):142–50

Characterization of a human adenovirus 5: rabies glycoprotein recombinant vaccine reisolated from orally vaccinated skunks. Lutze-Wallace C, et al. **Biologicals** 1995 Dec;23(4):271–7

Fluorescence in situ hybridization method for measuring transfection efficiency. Cheng L, et al. **Biotechniques** 1996 Sep;21(3):486–91

Efficiency of transduction by recombinant Sindbis replicon virus varies among cell lines, including mosquito cells and

rat sensory neurons. Corsini J, et al. **Biotechniques** 1996 Sep;21(3):492–7

Rapid method for construction of gene disruption plasmids in Saccharomyces cerevisiae. Fujimura H. **Biotechniques** 1996 Aug;21(2):208–9

Method for joining DNA fragments using positive selection. Gubin AN. **Biotechniques** 1996 Sep;21(3):412–4

Discrimination of run-on transcription from constitutive genes and antisense expression vectors in the same cells. Koropatnick J, et al. **Biotechniques** 1997 Jan;22(1):64–6

Limited growth PCR screening of a plasmid library. Ross LS, et al. **Biotechniques** 1996 Sep;21(3):382–4, 386

Alternative method for isolation of double-stranded template for DNA sequencing. Sadiev S, et al. **Biotechniques** 1996 Aug;21(2):233–5

Streamlined procedures for screening a P1 library. Shovlin CL. **Biotechniques** 1996 Sep;21(3):388–90

Vectors encoding alternative antibiotic resistance for use in the yeast two-hybrid system. Watson MA, et al. **Biotechniques** 1996 Aug;21(2):255–9

Retroviral-mediated gene transfer of gp91phox into bone marrow cells rescues defect in host defense against Aspergillus fumigatus in murine X-linked chronic granulomatous disease. Björgvinsdóttir H, et al. **Blood** 1997 Jan 1;89(1):41–8

Adenovirus vector infection of chronic lymphocytic leukemia B cells. Cantwell MJ, et al. **Blood** 1996 Dec 15; 88(12):4676–83

A novel herpes vector for the high-efficiency transduction of normal and malignant human hematopoietic cells. Dilloo D, et al. **Blood** 1997 Jan 1;89(1):119–27

Therapeutic levels of functional human factor X in rats after retroviral-mediated hepatic gene therapy. Le M, et al. **Blood** 1997 Feb 15;89(4):1254–9

Inducible gene expression from defective herpes simplex virus vectors using the tetracycline-responsive promoter system. Ho DY, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1–2):200–9

Overexpression of a functional NMDA receptor subunit (NMDAR1) in baculovirus-infected Trichoplusia ni insect cells. Sydow S, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):228–40

The ups and downs of adenovirus vectors. Ginsberg HS. **Bull N Y Acad Med** 1996 Summer;73(1):53–8 (14 ref.)

Development of techniques for the genetic manipulation of the gliding bacteria Lysobacter enzymogenes and Lysobacter brunescens. Lin D, et al. **Can J Microbiol** 1996 Sep;42(9):896–902

Use of bicistronic retroviral vectors encoding the LacZ gene together with a gene of interest: a method to select producer cells and follow transduced target cells. Staal FJ, et al. **Cancer Gene Ther** 1996 Sep–Oct;3(5):345–51

Transforming function of the HOX11/TCL3 homeobox gene. Hawley RG, et al. **Cancer Res** 1997 Jan 15;57(2):337–45

Development of an adenovirus vector with tetracycline-regulatable human tumor necrosis factor alpha gene expression. Hu SX, et al. **Cancer Res** 1997 Aug 15; 57(16):3339–43

Retroviral transduction of human dendritic cells with a tumor-associated antigen gene. Reeves ME, et al. **Cancer Res** 1996 Dec 15;56(24):5672–7

Transcriptional targeting of recombinant adenoviruses to human and murine melanoma cells. Siders WM, et al. **Cancer Res** 1996 Dec 15;56(24):5638–46

The anti-human tumor effect and generation of human cytotoxic T cells in SCID mice given human peripheral blood lymphocytes by the in vivo transfer of the Interleukin-6 gene using adenovirus vector. Tanaka F, et al. **Cancer Res** 1997 Apr 1;57(7):1335–43

Retroviral delivery and tetracycline-dependent expression of IL-1beta-converting enzyme (ICE) in a rat glioma model provides controlled induction of apoptotic death in tumor cells. Yu JS, et al. **Cancer Res** 1996 Dec 1; 56(23):5423–7

Production of biologically active human RelA (p65) in baculovirus-infected insect cells. Chabot-Fletcher M, et al. **Cell Biol Int** 1996 Nov;20(11):777–9

Construction of a stable expression vector carrying sop genes [ZJ1] Du X, et al. **Chin J Biotechnol** 1996;12(2):99–109

A homologous and self-replicating system for efficient transformation of Fusarium oxysporum. Garcia-Pedrajas MD, et al. **Curr Genet** 1996 Jan;29(2):191–8

Construction of portable intron cassettes for the delivery and expression of foreign genes. Reilly JD, et al. **DNA Cell Biol** 1996 Dec;15(12):1113–20

Expression plasmid vectors with convenient subcloning sites in lambda gt11 that efficiently produce detectable tagged proteins. Takemoto Y, et al. **DNA Cell Biol** 1997 Jul; 16(7):893–6

Nested deletions from a fixed site as an aid to nucleotide sequencing: an in vitro system using Tn3 transposase. Morita M, et al. **DNA Res** 1996 Dec 31;3(6):431–3

Parameters affecting the use of the lac repressor system in eukaryotic cells and transgenic animals. Wyborski DL, et al. **Environ Mol Mutagen** 1996;28(4):447–58

A plasmid for the quantification of the CD21 human interferon-alpha receptor expression by PCR. Illges H, et al. **Eur Cytokine Netw** 1996 Sep;7(3):375–6

Adenoviral/retroviral vector chimeras: a novel strategy to achieve high-efficiency stable transduction in vivo. Bilbao G, et al. **FASEB J** 1997 Jul;11(8):624–34 (112 ref.)

Advances in adenoviral vectors: from genetic engineering to their biology. Yeh P, et al. **FASEB J** 1997 Jul; 11(8):615–23 (50 ref.)

Construction of a shuttle vector for use in Francisella tularensis. Norqvist A, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):257–60

Cryptic plasmid pFNL10 from Francisella novicida-like F6168: the base of plasmid vectors for Francisella tularensis. Pavlov VM, et al. **FEMS Immunol Med Microbiol** 1996 Mar;13(3):253–56

Neomycin- and spectinomycin-resistance replacement vectors for Bacillus subtilis. Chary VK, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):135–9

Integrative vector for constructing single-copy translational fusions between regulatory regions of Bacillus subtilis and the bgaB reporter gene encoding a heat-stable beta-galactosidase. Stoss O, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):49–54

Construction and characterization of new corynebacterial plasmids carrying the alpha-amylase gene. Ugorčáková J, et al. **Folia Microbiol (Praha)** 1996;41(1):10–4

A genetic analysis system of Burkholderia cepacia: construction of mobilizable transposons and a cloning vector. Abe M, et al. **Gene** 1996 Oct 3;174(2):191–4

A novel bacterial vector system for monitoring protein-protein interactions in the cAMP-dependent protein kinase complex. Cairns MT, et al. **Gene** 1997 Jan 31;185(1):5–9

Inducible retroviral vectors regulated by lac repressor in mammalian cells. Chang BD, et al. **Gene** 1996 Dec 12; 183(1–2):137–42

Construction of adenoviral and retroviral vectors coexpressing the genes encoding the hepatitis B surface antigen and B7-1 protein. He XS, et al. **Gene** 1996 Oct 10;175(1–2):121–5

A bacterial cloning vector using a mutated Aequorea green fluorescent protein as an indicator. Inouye S, et al. **Gene** 1997 Apr 21;189(2):159–62

Isolation of a Candida glabrata centromere and its use in construction of plasmid vectors. Kitada K, et al. **Gene** 1996 Oct 10;175(1–2):105–8

Probing the limits of expression levels by varying promoter strength and plasmid copy number in Saccharomyces cerevisiae [published erratum appears in Gene 1997 Feb 20;186(1):149] Nacken V, et al. **Gene** 1996 Oct 10; 175(1–2):253–60

Construction of vectors and a genomic library for use with his3-deficient strains of Schizosaccharomyces pombe. Ohi R, et al. **Gene** 1996 Oct 3;174(2):315–8

Construction of D29 shuttle phasmids and luciferase reporter phages for detection of mycobacteria. Pearson RE, et al. **Gene** 1996 Dec 12;183(1–2):129–36

Plasmid vectors for gram-positive bacteria switching from high to low copy number. Renault P, et al. **Gene** 1996 Dec 12;183(1–2):175–82

A single vector cloning, mutagenesis and expression system. Towler EM, et al. **Gene** 1996 Dec 12;183(1–2):259–63

A Shigella flexneri invasion plasmid gene, ipgH, with homology to IS629 and sequences encoding bacterial sugar phosphate transport proteins. Venkatesan MM, et al. **Gene** 1996 Oct 10;175(1–2):23–7

Development of a VSV-G protein pseudotyped retroviral vector system expressing dominant oncogenes from a lacO-modified inducible LTR promoter. Wang S, et al. **Gene** 1996 Dec 5;182(1–2):145–50

A new expression vector for high level protein production, one step purification and direct isotopic labeling of calmodulin-binding peptide fusion proteins. Zheng CF, et al. **Gene** 1997 Feb 20;186(1):55–60

Restoration of hexosaminidase A activity in human Tay-Sachs fibroblasts via adenoviral vector-mediated gene transfer. Akli S, et al. **Gene Ther** 1996 Sep;3(9):769–74

Gene transfer into enteric neurons of the rat small intestine in organ culture using a replication defective recombinant herpes simplex virus type 1 (HSV1) vector, but not recombinant adenovirus vectors. Brown OA, et al. **Gene Ther** 1997 Apr;4(4):331–8

Analysis of the relative level of gene expression from different retroviral vectors used for gene therapy. Byun J, et al. **Gene Ther** 1996 Sep;3(9):780–8

Gene delivery to the heart in vivo and to cardiac myocytes and vascular smooth muscle cells in vitro using herpes virus vectors. Coffin RS, et al. **Gene Ther** 1996 Jul;3(7):560–6

Adenovirus-mediated gene transfer into kidney glomeruli using an ex vivo and in vivo kidney perfusion system – first steps towards gene therapy of Alport syndrome. Heikkila P, et al. **Gene Ther** 1996 Jan;3(1):21–7

Novel complementation cell lines derived from human lung carcinoma A549 cells support the growth of E1-deleted adenovirus vectors. Imler JL, et al. **Gene Ther** 1996 Jan; 3(1):75–84

Targeting cell-specific gene expression with an adenovirus vector containing the lacZ gene under the control of the CFTR promoter. Imler JL, et al. **Gene Ther** 1996 Jan; 3(1):49–58

Recombinant adeno-associated virus (AAV-CFTR) vectors do not integrate in a site-specific fashion in an immortalized epithelial cell line. Kearns WG, et al. **Gene Ther** 1996 Sep; 3(9):748–55

Increased levels of spliced RNA account for augmented expression from the MFG retroviral vector in hematopoietic cells. Krall WJ, et al. **Gene Ther** 1996 Jan; 3(1):37–48

A novel, membrane receptor-based retroviral vector for Fanconi anemia group C gene therapy. Machl AW, et al. **Gene Ther** 1997 Apr;4(4):339–45

Autonomous parvovirus transduction of a gene under control of tissue-specific or inducible promoters. Maxwell IH, et al. **Gene Ther** 1996 Jan;3(1):28–36

Sustained retroviral gene marking and expression in lymphoid and myeloid cells derived from transduced hematopoietic progenitor cells. Plavec I, et al. **Gene Ther** 1996 Aug; 3(8):717–24

Construction of recombinant vaccinia virus expressing GM-CSF and its use as tumor vaccine. Qin HX, et al. **Gene Ther** 1996 Jan;3(1):59–66

Heterologous expression of adenovirus E3-gp19K in an E1a-deleted adenovirus vector inhibits MHC I expression in vitro, but does not prolong transgene expression in vivo. Schowalter DB, et al. **Gene Ther** 1997 Apr;4(4):351–60

In vivo gene transfer to the human biliary tract. Vickers SM, et al. **Gene Ther** 1996 Sep;3(9):825–8

A vector for expressing foreign genes in the brains and hearts of transgenic mice. Borchelt DR, et al. **Genet Anal** 1996 Dec;13(6):159–63

Sequential amplification of cloned DNA as tandem multimers using class-IIS restriction enzymes. Lee JH, et al. **Genet Anal** 1996 Dec;13(6):139–45

Hermes, a functional non-Drosophilid insect gene vector from Musca domestica. O'Brochta DA, et al. **Genetics** 1996 Mar;142(3):907–14

Centromeric and noncentromeric ADE2-selectable fragmentation vectors for yeast artificial chromosomes in AB1380. Heus JJ, et al. **Genome Res** 1997 Jun;7(6):657–60

Retrofitting vectors for Escherichia coli-based artificial chromosomes (PACs and BACs) with markers for transfection studies. Mejia JE, et al. **Genome Res** 1997 Feb; 7(2):179–86

Adenovirus-mediated transfer of HPV 16 E6/E7 antisense RNA to human cervical cancer cells. Hamada K, et al. **Gynecol Oncol** 1996 Nov;63(2):219–27

Effects of gamma irradiation on the transduction of dividing and nondividing cells in brain and muscle of rats by adeno-associated virus vectors. Alexander IE, et al. **Hum Gene Ther** 1996 May 1;7(7):841–50

A phase I study of recombinant adenovirus vector-mediated intraperitoneal delivery of herpes simplex virus thymidine kinase (HSV-TK) gene and intravenous ganciclovir for previously treated ovarian and extraovarian cancer patients. Alvarez RD, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):597–613

Complete restoration of glucocerebrosidase deficiency in Gaucher fibroblasts using a bicistronic MDR retrovirus and a new selection strategy. Aran JM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2165–75

Adenoviral delivery of recombinant DNA into transgenic mice bearing hepatocellular carcinomas. Bao JJ, et al. **Hum Gene Ther** 1996 Feb 10;7(3):355–65

Modulation of erythropoietin delivery from engineered muscles in mice. Bohl D, et al. **Hum Gene Ther** 1997 Jan 20;8(2):195–204

Portal branch occlusion safely facilitates in vivo retroviral vector transduction of rat liver. Bowling WM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2113–21

Construction of a double recombinant adenovirus vector expressing a heterodimeric cytokine: in vitro and in vivo production of biologically active interleukin-12. Bramson J, et al. **Hum Gene Ther** 1996 Feb 10;7(3):333–42

Long-term expression of a foreign gene from a unique position in the latent herpes simplex virus genome. Carpenter DE, et al. **Hum Gene Ther** 1996 Aug 1; 7(12):1447–54

Adenovirus-mediated gene transfer of ciliary neurotrophic factor can prevent photoreceptor degeneration in the retinal degeneration (rd) mouse. Cayouette M, et al. **Hum Gene Ther** 1997 Mar 1;8(4):423–30

Intra- and extracellular immunization against HIV-1 infection with lymphocytes transduced with an AAV vector expressing a human anti-gp120 antibody. Chen JD, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1515–25

Comparison of retroviral and adeno-associated viral vectors designed to express human clotting factor IX. Chen L, et al. **Hum Gene Ther** 1997 Jan 20;8(2):125–35

Consistent and high rates of gene transfer can be obtained using flow-through transduction over a wide range of retroviral titers. Chuck AS, et al. **Hum Gene Ther** 1996 Apr 10;7(6):743–50

Systematic analysis of repeated gene delivery into animal lungs with a recombinant adenovirus vector. Dong JY, et al. **Hum Gene Ther** 1996 Feb 10;7(3):319–31

Quantitative analysis of the packaging capacity of recombinant adeno-associated virus. Dong JY, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2101–12

In vivo replication-deficient adenovirus vector-mediated transduction of the cytosine deaminase gene sensitizes glioma cells to 5-fluorocytosine. Dong Y, et al. **Hum Gene Ther** 1996 Apr 10;7(6):713–20

Preclinical assessment of human hematopoietic progenitor cell transduction in long-term marrow cultures. Dubé ID, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2089–100

A novel adenovirus-adeno-associated virus hybrid vector that displays efficient rescue and delivery of the AAV genome. Fisher KJ, et al. **Hum Gene Ther** 1996 Nov 10; 7(17):2079–87

Intramarrow cytokine gene transfer by adenoviral vectors

in dogs. Foley R, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):545–53

Gene transfer into mammalian cells using histone–condensed plasmid DNA. Fritz JD, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1395–404

Use of the cosmid adenoviral vector cloning system for the in vitro construction of recombinant adenoviral vectors. Fu S, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1321–30

An improved plasmid DNA expression vector for direct injection into skeletal muscle. Hartikka J, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1205–17

LacZ gene transfer to skeletal muscle using a replication–defective herpes simplex virus type 1 mutant vector. Huard J, et al. **Hum Gene Ther** 1997 Mar 1; 8(4):439–52

Surfactant effects on aerosolized and instilled adenoviral–mediated gene transfer. Jobe AH, et al. **Hum Gene Ther** 1996 Apr 10;7(6):697–704

In vitro assessment of variables affecting the efficiency and efficacy of adenovirus–mediated gene transfer to cystic fibrosis airway epithelia. Johnson LG, et al. **Hum Gene Ther** 1996 Jan;7(1):51–9

Exogenous surfactant enhances the delivery of recombinant adenoviral vectors to the lung. Katkin JP, et al. **Hum Gene Ther** 1997 Jan 20;8(2):171–6

Long–term persistence of canine hematopoietic cells genetically marked by retrovirus vectors. Kiem HP, et al. **Hum Gene Ther** 1996 Jan;7(1):89–96

A novel gene therapy strategy for elimination of prostate carcinoma cells from human bone marrow. Kim M, et al. **Hum Gene Ther** 1997 Jan 20;8(2):157–70

Gluconoylated and glycosylated polylysines as vectors for gene transfer into cystic fibrosis airway epithelial cells. Kollen WJ, et al. **Hum Gene Ther** 1996 Aug 20; 7(13):1577–86

Herpes vector–mediated delivery of marker genes to disseminated central nervous system tumors. Kramm CM, et al. **Hum Gene Ther** 1996 Feb 10;7(3):291–300

Nondepleting anti–CD4 antibody treatment prolongs lung–directed E1–deleted adenovirus–mediated gene expression in rats. Lei D, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2273–9

High–efficiency transduction of freshly isolated human tumor cells using adenoviral interleukin–2 vectors. Leimig T, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1233–9

Efficient adenovirus–mediated ectopic gene expression of human lipoprotein lipase in human hepatic (HepG2) cells. Liu G, et al. **Hum Gene Ther** 1997 Jan 20;8(2):205–14

Expression of the bcl–2 gene from a defective HSV–1 amplicon vector protects pancreatic beta–cells from apoptosis. Liu Y, et al. **Hum Gene Ther** 1996 Sep 10; 7(14):1719–26

NIDDK Workshop on AAV Vectors: Gene Transfer into Quiescent Cells. McKeon C, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1615–9

Regional angiogenesis induced in nonischemic tissue by an adenoviral vector expressing vascular endothelial growth factor. Magovern CJ, et al. **Hum Gene Ther** 1997 Jan 20; 8(2):215–27

Partial reconstitution of a replication–competent retrovirus in helper cells with partial overlaps between vector and helper cell genomes. Martinez I, et al. **Hum Gene Ther** 1996 Apr 10;7(6):705–12

Two–step gene transfer using an adenoviral vector carrying the CD4 gene and human immunodeficiency viral vectors. Miyake K, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2281–6

Long–term secretion of therapeutic proteins from genetically modified skeletal muscles. Naffakh N, et al. **Hum Gene Ther** 1996 Jan;7(1):11–21

Gene therapy for adult T cell leukemia using human immunodeficiency virus vector carrying the thymidine kinase gene of herpes simplex virus type 1. Obaru K, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2203–8

A novel multiply–mutated HSV–1 strain for the treatment of human brain tumors. Pyles RB, et al. **Hum Gene Ther** 1997 Mar 20;8(5):533–44

Retroviral transduction of CD34–enriched hematopoietic progenitor cells under serum–free conditions. Sekhar M, et al. **Hum Gene Ther** 1996 Jan;7(1):33–8

Modulation of the specificity and activity of a cellular promoter in an adenoviral vector. Shi Q, et al. **Hum Gene Ther** 1997 Mar 1;8(4):403–10

Synthesis and processing of genetically modified human proinsulin by rat myoblast primary cultures. Simonson GD, et al. **Hum Gene Ther** 1996 Jan;7(1):71–8

Construction of retroviral vectors carrying human CD3 gamma cDNA and reconstitution of CD3 gamma expression and T cell receptor surface expression and function in a CD3 gamma–deficient mutant T cell line. Sun JY, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1041–8

Rapid production of interleukin–2–secreting tumor cells by herpes simplex virus–mediated gene transfer: implications for autologous vaccine production. Tung C, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2217–24

Construction of human factor IX expression vectors in retroviral vector frames optimized for muscle cells. Wang JM, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1743–56

Safety of adenovirus–mediated transfer of the human cystic fibrosis transmembrane conductance regulator cDNA to the lungs of nonhuman primates. Wilmott RW, et al. **Hum Gene Ther** 1996 Feb 10;7(3):301–18

Innate immune mechanisms dominate elimination of adenoviral vectors following in vivo administration. Worgall S, et al. **Hum Gene Ther** 1997 Jan 1;8(1):37–44

Optimization of plasmid vectors for high–level expression in lung epithelial cells. Yew NS, et al. **Hum Gene Ther** 1997 Mar 20;8(5):575–84

Limitations of retrovirus–mediated HSV–tk gene transfer to pulmonary adenocarcinoma cells in vitro and in vivo. Zhang L, et al. **Hum Gene Ther** 1997 Mar 20;8(5):563–74

Encapsidated adenovirus minichromosomes allow delivery and expression of a 14 kb dystrophin cDNA to muscle cells. Kumar–Singh R, et al. **Hum Mol Genet** 1996 Jul; 5(7):913–21

Prolonged reduction of high blood pressure with an in vivo, nonpathogenic, adeno–associated viral vector delivery of AT1–R mRNA antisense. Phillips MI, et al. **Hypertension** 1997 Jan;29(1 Pt 2):374–80

Retrovirol gene transfer in Xenopus cell lines and embryos. Burns JC, et al. **In Vitro Cell Dev Biol Anim** 1996 Feb; 32(2):78–84

Cloning and baculovirus expression of a desiccation stress gene from the beetle, Tenebrio molitor. Graham LA, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):127–33

Adenovirus–mediated herpes simplex virus thymidine kinase gene and ganciclovir therapy leads to systemic activity against spontaneous and induced metastasis in an orthotopic mouse model of prostate cancer. Hall SJ, et al. **Int J Cancer** 1997 Jan 17;70(2):183–7

Transfection of neonatal rat cochlear cells in vitro with an adenovirus vector. Dazert S, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):595–600

An adenovirus vector encoding tyrosine hydroxylase activity may enter human CNS cells in primary dissociated cultures. Levallois C, et al. **Int J Dev Neurosci** 1996 Aug;14(5):613–9

Viral–mediated gene transfer in the cochlea. Weiss MA, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):577–83

Construction of a vector containing a site–specific DNA double–strand break with 3'–phosphoglycolate termini and analysis of the products of end–joining in CV–1 cells. Bennett RA, et al. **Int J Radiat Biol** 1996 Dec;70(6):623–36

Vector reconstruction from firing rates. Salinas E, et al. **J Comput Neurosci** 1994 Jun;1(1–2):89–107

Regulated expression of artificial chimeric genes contained in retroviral vectors: implications for virus–directed enzyme prodrug therapy (VDEPT) and other gene therapy applications. Huber BE, et al. **J Drug Target** 1996; 3(5):349–56

Gene therapy with angiogenic factors: a new potential approach to the treatment of ischemic diseases. Safi J Jr, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2311–25 (128 ref.)

Biosynthetic retrovectoring systems for gene therapy. Hodgson CP, et al. **J Mol Med** 1997 Apr;75(4):249–58 (50 ref.)

NTS influence on transgene expression from mono– and bicistronic plasmid vectors after lipofection in a human fibroblast cell line. Kulmburg P, et al. **J Mol Med** 1997 Mar;75(3):223–9

Cell type specific and inducible promoters for vectors in gene therapy as an approach for cell .targeting. Walther W, et al. **J Mol Med** 1996 Jul;74(7):379–92 (82 ref.)

Adenovirus–mediated gene transfer to the brain: methodological assessment. Peltékian E, et al. **J Neurosci Methods** 1997 Jan;71(1):77–84 (37 ref.)

Multigene antiviral vectors inhibit diverse human immunodeficiency virus type 1 clades. Gervaix A, et al. **J Virol** 1997 Apr;71(4):3048–53

Vectors with bidirectional reporter genes for studying divergent promoters. Jain VK. **Methods Enzymol** 1996; 273:319–31 (25 ref.)

Designing expression plasmid vectors in E. coli. Balbás P. **Methods Mol Biol** 1997;62:11–6

Genomic yeast DNA clone banks. Construction and gene isolation. Bignell GR, et al. **Methods Mol Biol** 1996; 53:155–87 (21 ref.)

Site–directed mutagenesis using double–stranded plasmid DNA templates. Braman J, et al. **Methods Mol Biol** 1996; 57:31–44 (9 ref.)

Bacteriophage lambda–based expression vectors. Christensen AC. **Methods Mol Biol** 1997;62:29–36

Design of retroviral expression vectors. Comstock KE, et al. **Methods Mol Biol** 1997;62:207–22

Solid–phase in vitro mutagenesis using a plasmid DNA template. Edward R. **Methods Mol Biol** 1996;57:97–107 (12 ref.)

Expression of proteins in E. coli utilizing a dual promoter–based vector: pLACT7. Garcia GA, et al. **Methods Mol Biol** 1997;62:63–71

Constitutive expression vectors: PGK. Graham IR, et al. **Methods Mol Biol** 1997;62:159–69

Site–directed mutagenesis using a uracil–containing phagemid template. Hagemeier C. **Methods Mol Biol** 1996; 57:45–54 (3 ref.)

Overview of vector design for mammalian gene expression. Kaufman RJ. **Methods Mol Biol** 1997;62:287–300

A simple method for site–directed mutagenesis with double–stranded plasmid DNA. Lai D, et al. **Methods Mol Biol** 1996;57:75–85 (20 ref.)

Use of defective herpes–derived plasmid vectors. Lim F, et al. **Methods Mol Biol** 1997;62:223–32

Chromosome engineering in yeast with a site–specific recombination system from a heterologous yeast plasmid. Oshima Y, et al. **Methods Mol Biol** 1996;53:217–25 (10 ref.)

Inducible expression cassettes in yeast: ADH2. Price VL. **Methods Mol Biol** 1997;62:149–57

Design of bacterial hosts for lac–based expression vectors. Schweizer HP, et al. **Methods Mol Biol** 1997;62:17–27

Yeast plasmids. Singh KK, et al. **Methods Mol Biol** 1997; 62:113–30

PCR–assisted mutagenesis for site–directed insertion/deletion of large DNA segments. Tessier DC, et al. **Methods Mol Biol** 1996;57:229–37 (17 ref.)

Using PCR for rapid site–specific mutagenesis in large plasmids. Watkins BA, et al. **Methods Mol Biol** 1996; 57:217–27 (16 ref.)

Altered beta–adrenergic receptor signaling in heart failure, in vivo gene transfer via adeno and adeno–associated virus. Ping P, et al. **Microcirculation** 1996 Jun;3(2):225–8

Positive selection of FLP–mediated unequal sister chromatid exchange products in mammalian cells. Aladjem MI, et al. **Mol Cell Biol** 1997 Feb;17(2):857–61

The recovery of a B2 insertion in the lacI gene of a rat cell line containing a lambda/LIZ shuttle vector. de Boer JG, et al. **Mutat Res** 1997 Apr 14;375(1):79–82

Use of an infectious Simian virus 40–based shuttle vector to analyse UV–induced mutagenesis in monkey cells. Hera C, et al. **Mutat Res** 1996 Dec 2;364(3):235–43

Adenovirus dodecahedron, a new vector for human gene transfer [see comments] Fender P, et al. **Nat Biotechnol** 1997 Jan;15(1):52–6. Comment in: Nat Biotechnol 1997 Jan;15(1):17.

Safe gene vectors made simpler [news; comment] Morsy MA, et al. **Nat Biotechnol** 1997 Jan;15(1):17. Comment on: Nat Biotechnol 1997 Jan;15(1):52–6.

Formation of de novo centromeres and construction of first–generation human artificial microchromosomes [see comments] Harrington JJ, et al. **Nat Genet** 1997 Apr; 15(4):345–55. Comment in: Nat Genet 1997 Apr;15(4):333–5.

Human artificial chromosomes get real [news; comment] Rosenfeld MA. **Nat Genet** 1997 Apr;15(4):333–5. Comment on: Nat Genet 1997 Apr;15(4):345–55.

Gene therapy: progress, problems, prospects [news] Blau H, et al. **Nat Med** 1997 Jun;3(6):612–3

Direct intracerebral nerve growth factor gene transfer using a recombinant adenovirus: effect on basal forebrain cholinergic neurons during aging. Castel–Barthe MN, et al. **Neurobiol Dis** 1996 Feb;3(1):76–86

An adenovirus encoding CuZnSOD protects cultured striatal neurones against glutamate toxicity. Barkats M, et al. **Neuroreport** 1996 Jan 31;7(2):497–501

Genomic analysis of human multigene families using chromosome–specific vectorette PCR. Moynihan TP, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):4094–5

Expression and characterization of the multidrug resistance–associated protein in insect cells infected with a recombinant baculovirus. Sun H, et al. **Oncol Res** 1996; 8(7–8):287–93

Oligonucleotide–directed mutagenesis and subsequent expression of the corresponding recombinant proteins without changing the bacterial vector system. Michael M, et al. **Pharm Acta Helv** 1997 Jun;72(3):139–43

Trapping developmental promoters in Dictyostelium. Chang WT, et al. **Plasmid** 1995 Nov;34(3):175–83

Construction of novel shuttle vectors for use between moderately halophilic bacteria and Escherichia coli. Mellado E, et al. **Plasmid** 1995 Nov;34(3):157–64

pTIM3, a plasmid delivery vector for a transposon–based inducible marker gene system in gram–negative bacteria. Saint CP, et al. **Plasmid** 1995 Nov;34(3):165–74

Persistence in muscle of an adenoviral vector that lacks all viral genes. Chen HH, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1645–50

Ultrarapid, highly efficient viral gene transfer to the heart. Donahue JK, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4664–8

Immediate–early baculovirus vectors for foreign gene expression in transformed or infected insect cells. Jarvis DL, et al. **Protein Expr Purif** 1996 Sep;8(2):191–203

Promoter/leader deletion analysis and plant expression vectors with the figwort mosaic virus (FMV) full length transcript (FLt) promoter containing single or double enhancer domains. Maiti IB, et al. **Transgenic Res** 1997 Mar;6(2):143–56

PCR–based gene targeting of the inducible nitric oxide synthase (NOS2) locus in murine ES cells, a new and more cost–effective approach. Randolph DA, et al. **Transgenic Res** 1996 Nov;5(6):413–20

Methods and reagents. Reducing background colonies with positive selection vectors. Hengen PN. **Trends Biochem Sci** 1997 Mar;22(3):105–6

Genetic engineering of animal RNA viruses. Conzelmann KK, et al. **Trends Microbiol** 1996 Oct;4(10):386–93 (73 ref.)

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S–transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691–4

Oral immunization with recombinant Salmonella typhimurium expressing surface protein antigen A (SpaA) of Streptococcus sobrinus: effects of the Salmonella virulence plasmid on the induction of protective and sustained humoral responses in rats. Redman TK, et al. **Vaccine** 1996 Jun;14(9):868–78

[Aerosol administration of a replication defective recombinant adenovirus expressing normal human

cDNA-CFTR in the respiratory tractus in patients with cystic fibrosis] Bellon G, et al.
C R Seances Soc Biol Fil 1996;190(1):109-42 (Eng. Abstr.) **(Fre)**

[Non-replicating recombinant Vaccinia viruses are potent vectors for gene expression of T-cell co-stimulating molecules in vitro] Oertli D, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:79-84 (Eng. Abstr.) **(Ger)**

[Gene therapy: development of adenovirus vectors] Siegfried W. **Pneumologie** 1996 Dec;50 Suppl 3:860-4 (31 ref.) **(Ger)**

[Virally mediated gene transfer in the patellar tendon. An experimental study in rabbits] Gerich TG, et al.
Unfallchirurg 1997 May;100(5):354-62 (Eng. Abstr.) **(Ger)**

[Preliminary studies on the design of retroviral vectors for substitutive gene therapy] Martín F, et al. **Microbiologia** 1996 Mar;12(1):43-50 (Eng. Abstr.) **(Spa)**

[Comparative study of 3 heterologous expression systems for obtaining recombinant Bacillus thuringiensis delta-endotoxins] Vázquez R, et al.
Rev Latinoam Microbiol 1995 Jul-Sep;37(3):237-44 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Attenuated poxvirus vectors as carriers in vaccines against human T cell leukemia-lymphoma virus type I. Franchini G, et al. **AIDS Res Hum Retroviruses** 1996 Mar 20; 12(5):407-8 (21 ref.)

Efficient in vivo marking of primary CD4+ T lymphocytes in nonhuman primates using a gibbon ape leukemia virus-derived retroviral vector. Bunnell BA, et al. **Blood** 1997 Mar 15;89(6):1987-95

An indirect double-antibody sandwich enzyme-linked immunosorbent assay (ELISA) using baculovirus-expressed antigen for the detection of antibodies to glycoprotein E of pseudorabies virus and comparison of the method with blocking ELISAs. Kimman TG, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):167-74

Role of T cells in inflammation caused by adenovirus vectors in the brain. Byrnes AP, et al. **Gene Ther** 1996 Jul; 3(7):644-51

Prolongation of adenoviral transgene expression in mouse liver by T lymphocyte subset depletion. DeMatteo RP, et al. **Gene Ther** 1996 Jan;3(1):4-12

Humoral and cellular immune responses of nonhuman primates to long-term repeated lung exposure to Ad2/CFTR-2. Kaplan JM, et al. **Gene Ther** 1996 Feb; 3(2):117-27

Circumventing the immune response to adenovirus-mediated gene therapy. Kass-Eisler A, et al. **Gene Ther** 1996 Feb; 3(2):154-62

Neonatal cotton rats do not exhibit destructive immune responses to adenoviral vectors. Zepeda M, et al. **Gene Ther** 1996 Nov;3(11):973-9

Retroviral display of antibody fragments; interdomain spacing strongly influences vector infectivity. Ager S, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2157-64

Prevention of immune reactions triggered by first-generation adenoviral vectors by monoclonal antibodies and CTLA41g. Guérette B, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1455-63

Immune responses to adenoviral vectors during gene transfer in the brain. Kajiwara K, et al. **Hum Gene Ther** 1997 Feb 10;8(3):253-65

Anti-vector immunoglobulin induced by retroviral vectors. McCormack JE, et al. **Hum Gene Ther** 1997 Jul 1; 8(10):1263-73

"Sero-switch" adenovirus-mediated in vivo gene transfer: circumvention of anti-adenovirus humoral immune defenses against repeat adenovirus vector administration by changing the adenovirus serotype. Mastrangeli A, et al. **Hum Gene Ther** 1996 Jan;7(1):79-87

Immune responses to reporter proteins and high viral dose limit duration of expression with adenoviral vectors: comparison of E2a wild type and E2a deleted vectors. Morral N, et al. **Hum Gene Ther** 1997 Jul 1;8(10):1275-86

Delayed-type hypersensitivity response to high doses of adenoviral vectors. Russi TJ, et al. **Hum Gene Ther** 1997 Feb 10;8(3):323-30

Immunology of gene therapy with adenoviral vectors in mouse skeletal muscle. Yang Y, et al. **Hum Mol Genet** 1996 Nov;5(11):1703-12

Gene therapy with recombinant adenovirus vectors: evaluation of the host immune response. Christ M, et al. **Immunol Lett** 1997 Jun 1;57(1-3):19-25

pPV: a novel IRES-containing vector to facilitate plasmid immunization and antibody response characterization. Clarke NJ, et al. **Immunotechnology** 1997 Jun;3(2):145-53

Isogenic adenoviruses type 5 expressing or not expressing the E1A gene: efficiency as virus vectors in the vaccination of permissive and non-permissive species. Eloit M, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1583-9

Virus-mediated delivery of antigenic epitopes into dendritic cells as a means to induce CTL. Brossart P, et al. **J Immunol** 1997 Apr 1;158(7):3270-6

Adenoviral gene delivery elicits distinct pulmonary-associated T helper cell responses to the vector and to its transgene. van Ginkel FW, et al. **J Immunol** 1997 Jul 15;159(2):685-93

Baculovirus cDNA libraries for expression cloning of genes encoding cell-surface antigens. Granziero L, et al. **J Immunol Methods** 1997 Apr 25;203(2):131-9

Development of a procedure for the direct cloning of T-cell epitopes using bacterial expression systems. Neophytou PI, et al. **J Immunol Methods** 1996 Sep 13;196(1):63-72

Long-lasting adenovirus transgene expression in mice through neonatal intrathymic tolerance induction without the use of immunosuppression. DeMatteo RP, et al. **J Virol** 1997 Jul;71(7):5330-5

Generation of cytotoxic T lymphocytes against immunorecessive epitopes after multiple immunizations with adenovirus vectors is dependent on haplotype. Sparer TE, et al. **J Virol** 1997 Mar;71(3):2277-84

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S-transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691-4

Oral delivery of foreign antigens by attenuated Salmonella: consequences of prior exposure to the vector strain. Attridge SR, et al. **Vaccine** 1997 Feb;15(2):155-62

Construction and characterisation of a recombinant vaccinia virus expressing human papillomavirus proteins for immunotherapy of cervical cancer. Boursnell ME, et al. **Vaccine** 1996 Nov;14(16):1485-94

Highly attenuated modified vaccinia virus Ankara (MVA) as an effective recombinant vector: a murine tumor model. Carroll MW, et al. **Vaccine** 1997 Mar;15(4):387-94

A murine model of intranasal immunization to assess the immunogenicity of attenuated Salmonella typhi live vector vaccines in stimulating serum antibody responses to expressed foreign antigens. Galen JE, et al. **Vaccine** 1997 Apr-May;15(6-7):700-8

Comparison of the efficacy of replication-defective adenovirus and Nyvac poxvirus as vaccine vectors in mice. Gonin P, et al. **Vaccine** 1996 Aug;14(11):1083-7

Construction and oral immunogenicity of a Salmonella typhimurium strain expressing a streptococcal adhesin linked to the A2/B subunits of cholera toxin. Hajishengallis G, et al. **Vaccine** 1996 Nov;14(16):1545-8

DNA inoculation with a plasmid vector carrying the hepatitis E virus structural protein gene induces immune response in mice. He J, et al. **Vaccine** 1997 Mar;15(4):357-62

Induction of antibodies against structural proteins of hepatitis C virus in mice using recombinant adenovirus. Makimura M, et al. **Vaccine** 1996 Jan;14(1):28-36

Immunization of mice with poliovirus replicons expressing the C-fragment of tetanus toxin protects against lethal challenge with tetanus toxin. Porter DC, et al. **Vaccine** 1997 Feb;15(3):257-64

Combination of human cytomegalovirus recombinant immediate-early protein (IE1) with 80 nm cationic biovectors: protection from proteolysis and potentiation of presentation to CD4+ T-cell clones in vitro. Prieur E, et al. **Vaccine** 1996 Apr;14(6):511-20

Vaccination against feline leukaemia using a new feline herpesvirus type 1 vector. Willemse MJ, et al. **Vaccine** 1996 Nov;14(16):1511-6

ISOLATION & PURIFICATION

Tracking and quantitation of retroviral-mediated transfer using a completely humanized, red-shifted green fluorescent protein gene. Muldoon RR, et al. **Biotechniques** 1997 Jan;22(1):162-7

A stable cell line carrying adenovirus-inducible rep and cap genes allows for infectivity titration of adeno-associated virus vectors. Clark KR, et al. **Gene Ther** 1996 Dec; 3(12):1124-32

Rapid retrovirus titration using competitive polymerase chain reaction. Tafuro S, et al. **Gene Ther** 1996 Aug;3(8):679-84

A rapid and quantitative assay to estimate gene transfer into retrovirally transduced hematopoietic stem/progenitor cells using a 96-well format PCR and fluorescent detection system universal for MMLV-based proviruses. Gerard CJ, et al. **Hum Gene Ther** 1996 Feb 10;7(3):343-54

Method for concentrating and purifying recombinant autonomous parvovirus vectors designed for tumour-cell-targeted gene therapy. Avalosse B, et al. **J Virol Methods** 1996 Dec;62(2):179-83

METABOLISM

Use of a nonviral vector to express a chimeric tRNA-ribozyme against lymphocytic choriomeningitis virus: cytoplasmic accumulation of a catalytically competent transcript but minimal antiviral effect. Gebhard JR, et al. **Antisense Nucleic Acid Drug Dev** 1997 Feb; 7(1):3-11

A bcl-2 expressing viral vector protects cortical neurons from excitotoxicity even when administered several hours after the toxic insult. Jia WW, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):350-3

Co-expression of two gene products in the CNS using double-cassette defective herpes simplex virus vectors. New KC, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1-2):317-23

Bacterial expression and purification of biologically active mouse c-Fos proteins by selective codon optimization. Deng T. **FEBS Lett** 1997 Jun 9;409(2):269-72

A simple procedure to determine the biological titer of recombinant retroviral vectors. Tavoloni N. **Gene Ther** 1997 Feb;4(2):150-5

Green fluorescent protein retroviral vectors: low titer and high recombination frequency suggest a selective disadvantage. Hanazono Y, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1313-9

In vivo engineering of a cellular immune response by coadministration of IL-12 expression vector with a DNA immunogen. Kim JJ, et al. **J Immunol** 1997 Jan 15; 158(2):816-26

Yeast expression of the cytokine receptor domain of the soluble interleukin-6 receptor. Vollmer P, et al. **J Immunol Methods** 1996 Nov 29;199(1):47-54

The basal lamina is a physical barrier to herpes simplex virus-mediated gene delivery to mature muscle fibers. Huard J, et al. **J Virol** 1996 Nov;70(11):8117-23

Bacteriophage T4 expression-packaging-processing vector that encapsidates HIV-type I GP120-V3 fusion protein inside the head. Hong YR, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jul; 12(7):381-7

Expression in Escherichia coli: purification and characterization of cyclin H, a subunit of the human general transcription/DNA repair factor TFIIH. Poterszman A, et al. **Protein Expr Purif** 1997 Mar;9(2):153-8

Expression of ovine interleukin-2 cDNA in Escherichia coli. Seow HF, et al. **Vet Immunol Immunopathol** 1997 May; 56(1-2):107-17

PHARMACOKINETICS

Retrograde transfer of replication deficient recombinant adenovirus vector in the central nervous system for tracing studies. Kuo H, et al. **Brain Res** 1995 Dec 24;705(1-2):31-8

Central nervous system delivery of recombinant ciliary neurotrophic factor by polymer encapsulated differentiated C2C12 myoblasts. Déglon N, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2135-46

Moloney murine leukemia virus-derived retroviral vectors decay intracellularly with a half-life in the range of 5.5 to 7.5 hours. Andreadis ST, et al. **J Virol** 1997 Oct; 71(10):7541-8

PHARMACOLOGY

Purified herpes simplex thymidine kinase Retrovector particles. I. In vitro characterization, in situ transduction efficiency, and histopathological analyses of gene therapy-treated brain tumors. Kruse CA, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):118-28

Safety of single-dose administration of an adeno-associated virus (AAV)-CFTR vector in the primate lung. Conrad CK, et al. **Gene Ther** 1996 Aug;3(8):658-68

A phase I study of recombinant adenovirus vector-mediated delivery of an anti-erbB-2 single-chain (sFv) antibody gene for previously treated ovarian and extraovarian cancer patients. Alvarez RD, et al. **Hum Gene Ther** 1997 Jan 20; 8(2):229-42

Adenoviral vector-mediated gene expression in the nervous system of immunocompetent Wistar and T cell-deficient nude rats: preferential survival of transduced astroglial cells in nude rats. Hermens WT, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1049-63

Genetic immunotherapy of established tumors with adenovirus-murine granulocyte-macrophage colony-stimulating factor. Lee CT, et al. **Hum Gene Ther** 1997 Jan 20;8(2):187-93

Anti-vector immunoglobulin induced by retroviral vectors. McCormack JE, et al. **Hum Gene Ther** 1997 Jul 1; 8(10):1263-73

Immune responses to reporter proteins and high viral dose limit duration of expression with adenoviral vectors: comparison of E2a wild type and E2a deleted vectors. Morral N, et al. **Hum Gene Ther** 1997 Jul 1;8(10):1275-86

Activation of the complement system by synthetic DNA complexes: a potential barrier for intravenous gene delivery. Plank C, et al. **Hum Gene Ther** 1996 Aug 1; 7(12):1437-46

Cytotoxic T lymphocyte responses to proteins encoded by heterologous transgenes transferred in vivo by adenoviral vectors. Song W, et al. **Hum Gene Ther** 1997 Jul 1; 8(10):1207-17

PHYSIOLOGY

Adenoviral vectors and hematopoietic cells [letter; comment] Fu SQ, et al. **Blood** 1997 Feb 15;89(4):1460-2. Comment on: Blood 1996 Jun 15;87(12):5032-9.

Recombinant retroviruses pseudotyped with the vesicular stomatitis virus G glycoprotein mediate both stable gene transfer and pseudotransduction in human peripheral blood lymphocytes. Gallardo HF, et al. **Blood** 1997 Aug 1; 90(3):952-7

Efficient adenoviral vector-directed expression of a foreign gene to neurons and sustentacular cells in the mouse olfactory neuroepithelium. Holtmaat AJ, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):148-56

Overexpression of calcium/calmodulin-dependent protein kinase II in insulinoma cells by use of a retroviral vector. Möhlig M, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:71-3

Stromal cells maintain the radioprotective capacity of CFU-S during retroviral infection. Goncalves F, et al. **Gene Ther** 1996 Sep;3(9):761-8

Retroviral display of antibody fragments; interdomain spacing strongly influences vector infectivity. Ager S, et

al. **Hum Gene Ther** 1996 Nov 10;7(17):2157–64
Quantitative analysis of the packaging capacity of recombinant adeno-associated virus. Dong JY, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2101–12
Long-term survival in a rodent model of disseminated brain tumors by combined intrathecal delivery of herpes vectors and ganciclovir treatment. Kramm CM, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1989–94
Improved gene transfer into human lymphocytes using retroviruses with the gibbon ape leukemia virus envelope. Lam JS, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1415–22
Infection of A549 cells with a recombinant adenovirus vector induces ICAM-1 expression and increased CD-18-dependent adhesion of activated neutrophils. Stark JM, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1669–81
Inhibition of colony formation of NIH 3T3 cells by the expression of the small molecular weight heat shock protein HSP27: involvement of its phosphorylation and aggregation at the C-terminal region. Arata S, et al. **J Cell Physiol** 1997 Jan;170(1):19–26
Defective herpes simplex virus vectors expressing the rat brain stress-inducible heat shock protein 72 protect cultured neurons from severe heat shock. Fink SL, et al. **J Neurochem** 1997 Mar;68(3):961–9
HSV-1 vector mediated transfer of BDNF into cerebellar granule cells. Alonso MT, et al. **Neuroreport** 1996 Nov 25;7(18):3105–8
A Brevibacterium linens pRBL1 replicon functional in Corynebacterium glutamicum. Ankri S, et al. **Plasmid** 1996 Jul;36(1):36–41
The expression cassette determines the functional activity of ribozymes in mammalian cells by controlling their intracellular localization. Bertrand E, et al. **RNA** 1997 Jan; 3(1):75–88

STANDARDS

Transduction of human hematopoietic progenitor cells with retroviral vectors based on the gibbon ape leukemia virus. Eglitis MA, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):477–80
Sensitivity and reproducibility in adenoviral infectious titer determination. Nyberg-Hoffman C, et al. **Nat Med** 1997 Jul;3(7):808–11

THERAPEUTIC USE

On the strategy of using nonviral carriers in cancer gene therapy. Sochanik A, et al. **Acta Biochim Pol** 1996; 43(2):293–300 (47 ref.)
Potential use of herpes simplex virus (HSV) vectors for gene therapy of neurological disorders. Kennedy PG. **Brain** 1997 Jul;120 (Pt 7):1245–59 (80 ref.)
Targeted gene delivery to Kaposi's sarcoma cells via the fibroblast growth factor receptor. Goldman CK, et al. **Cancer Res** 1997 Apr 15;57(8):1447–51
Osteocalcin promoter-based toxic gene therapy for the treatment of osteosarcoma in experimental models. Ko SC, et al. **Cancer Res** 1996 Oct 15;56(20):4614–9
Adenoviral vector-mediated interleukin-10 expression in vivo: intramuscular gene transfer inhibits cytokine responses in endotoxemia. Xing Z, et al. **Gene Ther** 1997 Feb;4(2):140–9
Adenovirus-mediated delivery of human kallistatin gene reduces blood pressure of spontaneously hypertensive rats. Chen LM, et al. **Hum Gene Ther** 1997 Feb 10;8(3):341–7
Evaluation of PCR and ELISA assays for screening clinical trial subjects for replication-competent retrovirus. Martineau D, et al. **Hum Gene Ther** 1997 Jul 1; 8(10):1231–41
Modification of tumor suppressor gene expression in non-small cell lung cancer (NSCLC) with a retroviral vector expressing wildtype (normal) p53. Roth JA. **Hum Gene Ther** 1996 May 1;7(7):861–74
Modification of mutant K-ras gene expression in non-small cell lung cancer (NSCLC). Roth JA. **Hum Gene Ther** 1996 May 1;7(7):875–89
Adenovirus-mediated gene transfer of herpes simplex virus thymidine kinase in an ascites model of human breast cancer. Yee D, et al. **Hum Gene Ther** 1996 Jun 20; 7(10):1251–7
Gene therapy: hopes, hypes, and hurdles. Verma IM. **Mol Med** 1994 Nov;1(1):2–3

ULTRASTRUCTURE

Characterization of vectors for gene therapy formed by self-assembly of DNA with synthetic block co-polymers. Wolfert MA, et al. **Hum Gene Ther** 1996 Nov 10; 7(17):2123–33

GENETICS

see related

HISTOCOMPATIBILITY TESTING

Code of ethical principles for genetics professionals. Baumiller RC, et al. **Am J Med Genet** 1996 Oct 28; 65(3):177–8 (0 ref.)
Code of ethical principles for genetics professionals: an explication. Baumiller RC, et al. **Am J Med Genet** 1996 Oct 28;65(3):179–83 (4 ref.)
Mythos and logos in Hesiod's Theogony, circa 700 B.C. Bazopoulou-Kyrkanidou E. **Am J Med Genet** 1996 Mar 15;62(2):125–44
Classical clinical genetics in the era of molecular genetics [editorial] Méhes K. **Am J Med Genet** 1996 Feb 2; 61(4):394–5
Comment: genetics and public health [comment] Omenn GS. **Am J Public Health** 1996 Dec;86(12):1701–4. Comment on: Am J Public Health 1996 Dec;86(12):1717–22.
Proceeding of the 25th International Conference on Animal Genetics. Tours, France, 21–25 July 1996. Abstracts. **Anim Genet** 1996 Dec;27 Suppl 2:1–124
Genetic epidemiology. Morton NE. **Ann Hum Genet** 1997 Jan;61 (Pt 1):1–13
Perspectives on genetics in china. Fu JL, et al. **Annu Rev Genet** 1995;29:1–18 (131 ref.)
Molecular genetic approaches to understanding disease. Savill J. **BMJ** 1997 Jan 11;314(7074):126–9 (0 ref.)
Ethical issues in genetics ignored. Tamber PS. **BMJ** 1997 Feb 1;314(7077):384
Issues concerning ethical conduct and genetic mapping raised at Montreal meeting. Lyttle J. **Can Med Assoc J** 1997 Feb 1;156(3):411–2
A reintroduction to Mendelian genetics. Dlouhy SR. **Cancer Invest** 1997;15(5):429–34 (0 ref.)
Effects of heredity on response to drugs and environmental chemicals: construction of rodent models. Levy GN, et al. **Chem Res Toxicol** 1996 Dec;9(8):1215–24 (83 ref.)
Comparison of the genetic knowledge among nurses, students, and general public after ten years of implementation of genetic health program in Taiwan. Huang MC, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan–Feb;38(1):8–13
Genetics of disease. **Curr Opin Genet Dev** 1996 Jun; 6(3):371–90
Neo-Darwinian developmental evolution: can we bridge the gap between pattern and process? Palopoli MF, et al. **Curr Opin Genet Dev** 1996 Aug;6(4):502–8 (57 ref.)
Genetics and molecular biology. **Curr Opin Lipidol** 1997 Apr; 8(2):B13–24
Genetics and molecular biology. **Curr Opin Lipidol** 1996 Apr; 7(2):B13–22
Genetics and molecular biology. Patel S. **Curr Opin Lipidol** 1996 Oct;7(5):U145–9
Genetics and molecular biology. Semenkovich CF. **Curr Opin Lipidol** 1996 Aug;7(4):U113–8
The 28th meeting of the European Society of Human Genetics. London, England, April 1996. Abstracts. **Eur J Hum Genet** 1996;4 Suppl 1:1–187
Anecdotal, historical and critical commentaries on genetics. Sarkar S. **Genetics** 1996 Mar;142(3):655–60
Developmental genetics and evolution. Garcia-Bellido A. **Int J Dev Biol** 1996;Suppl 1:45S
Nutrition, genetics and skeletal development. Matkovic V. **J Am Coll Nutr** 1996 Dec;15(6):556–69 (97 ref.)
Diet and gene interaction. Miller GD, et al. **J Am Coll Nutr** 1997 Aug;16(4):293–5 (31 ref.)
A feminist standpoint for genetics. Mahowald MB. **J Clin Ethics** 1996 Winter;7(4):333–40 (28 ref.)
X linked hydrocephalus and MASA syndrome. Kenwrick S, et al. **J Med Genet** 1996 Jan;33(1):59–65 (77 ref.)
Lay understanding of genetics: a test of a hypothesis. Richards M, et al. **J Med Genet** 1996 Dec;33(12):1032–6
Can enhancement be distinguished from prevention in genetic medicine? Juengst ET. **J Med Philos** 1997 Apr;22(2):125–42
Health insurance bill provides first step toward tackling genetic discrimination [news] Holzman D. **J Natl Cancer Inst** 1996 Nov 6;88(21):1521–3
Evidence for genetic influence on both cross-situation and situation-specific components of behavior. Phillips K, et al. **J Pers Soc Psychol** 1997 Jul;73(1):129–38
Strategies for using nonhuman primates in genetic research on multifactorial diseases. VandeBerg JL, et al. **Lab Anim Sci** 1996 Apr;46(2):146–51 (48 ref.)
Application of genetic algorithms to parameter estimation of bioprocesses. Park LJ, et al. **Med Biol Eng Comput** 1997 Jan;35(1):47–9
Using genetic information: the individual and the community. Kegley JA. **Med Law** 1996;15(3):377–89
Institut de Génétique et Biologie Moléculaire et Cellulaire: IGBMC. Chambon P, et al. **Mol Med** 1996 May;2(3):283–4
Mutation Research Award. 1996. **Mutat Res** 1997 Mar 17; 389(2–3):2 p preceding 123
To affinity ... and beyond! [editorial; comment] **Nat Genet** 1996 Dec;14(4):367–70. Comment on: Nat Genet 1996 Dec;14(4):441–7. Comment on: Nat Genet 1996 Dec;14(4):450–6. Comment on: Nat Genet 1996 Dec;14(4):457–60.
New DFG head vows to back Germany's young scientists--and genetics research [news] Abbott A. **Nature** 1997 Aug 7;388(6642):507
More danger in doctrine than in genetics [letter] Badcock C. **Nature** 1997 Jul 3;388(6637):13
Bioinformatics in a post-genomics age. Gershon D, et al. **Nature** 1997 Sep 25;389(6649):417–22
Going to work in genes catches on. Horton B. **Nature** 1996 Oct 24;383(6602):739–40
Neurogenetics and primary care [editorial] [see comments] Joynt RJ. **Neurology** 1997 Jan;48(1):2–3. Comment in: Neurology 1997 Aug;49(2):643.
Neurogenetics and primary care [letter; comment] Nance MA. **Neurology** 1997 Aug;49(2):643. Comment on: Neurology 1997 Jan;48(1):2–3.
Genetic influences on changes in body mass index: a longitudinal analysis of women twins. Austin MA, et al. **Obes Res** 1997 Jul;5(4):326–31
Glossary of key terms. Lynch HT. **Oncology (Huntingt)** 1996 Jan;10(1):39–40
Sorting out nature vs. nurture [letter; comment] Beiser HR. **Pharos** 1996 Summer;59(3):49. Comment on: Pharos 1996 Spring;59(2):24–9.
A "sensitive" cell system. Its role in a new evolutionary paradigm. Sarà M. **Riv Biol** 1996;89(1):139–56 (36 ref.) **(Eng, Ita)**
Mathematical and computational challenges in population biology and ecosystems science. Levin SA, et al. **Science** 1997 Jan 17;275(5298):334–43 (108 ref.)
Publishing sensitive data: who calls the shots? Secretiveness found widespread in life sciences [news] Marshall E. **Science** 1997 Apr 25;276(5312):525
[Studies on theory and models of systemic conservation of animal and poultry genetic resources. II. Simulation experiment of systemic conservation of animal and poultry genetic resources] Du L, et al. **I Chuan Hsueh Pao** 1995; 22(3):171–7 (Eng. Abstr.) **(Chi)**
[Human chromosome research and genetic medicine in the 21st century(discussion)] Takaku F, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2494–509 **(Jpn)**
[XI Latin-American Congress of Genetics and III Latin-American Congress of Mutagenesis, Carcinogenesis and Environmental Teratogenesis] Rodriguez Larralde A. **Acta Cient Venez** 1994;45(3):254–5 **(Spa)**
[Basic concepts in molecular genetics] Cobo AM, et al. **Rev Neurol** 1996 Mar;24(127):315–9 (9 ref.) **(Spa)**

ECONOMICS

Academic-industry research relationships in genetics: a field apart. Blumenthal D, et al. **Nat Genet** 1997 May;16(1):104–8

EDUCATION

The good that we do. Robin NH. **Am J Med Genet** 1996 Nov 11;65(4):257–8
Is the traditional way of teaching three-factor mapping sufficient? [letter] Chalfie M. **Trends Genet** 1997 Mar; 13(3):94–5

HISTORY

Thirty-six years with Dr. Avery A. Sandberg. Ishihara T. **Cancer Genet Cytogenet** 1997 Jan;93(1):3–9
Discovery of the heat shock response. Ritossa F. **Cell Stress Chaperones** 1996 Jun;1(2):97–8
Reassessing forty years of genetic doctrine: retrotransfer and conjugation. Ankenbauer RG. **Genetics** 1997 Mar; 145(3):543–9
Sewall Wright's "Systems of Mating". Hill WG. **Genetics** 1996 Aug;143(4):1499–506
Dobzhansky, Bateson, and the genetics of speciation. Orr HA. **Genetics** 1996 Dec;144(4):1331–5
The 1996 Genetics Society of America Medal Elliot Meyerowitz. Preuss D. **Genetics** 1997 Jan;145(1):3
The origins of mouse genetics: beyond the Bussey Institution. I. Cold Spring Harbor: the station for experimental evolution and the 'Mouse Club of America'. Rader KA. **Mamm Genome** 1997 Jul;8(7):464–6
Escherichia coli as a model system with which to study cell differentiation. Thieffry D. **Pubbl Stn Zool Napoli II** 1996; 18(2):163–93
The impact of the Rouge-Cloître as seen by a geneticist. Thomas R. **Pubbl Stn Zool Napoli II** 1997;19(1):13–8
[Encounter with syndromes, genetics and geneticists] Wiedemann HR. **Klin Padiatr** 1997 Jan–Feb;209(1):1–5 **(Ger)**
[Ecology and genetics: at the sources of synthesis] Mirzoian EN. **Izv Akad Nauk Ser Biol** 1996 Jul–Aug;(4):478–84 (Eng. Abstr.) **(Rus)**
[The 30th anniversary of the journal Tsitologiia i genetika] Sozinov AA. **Tsitol Genet** 1996 Nov–Dec;30(6):3–7 **(Rus)**

LEGISLATION & JURISPRUDENCE

Conferring a federal property right in genetic material: stepping into the future with the Genetic Privacy Act. Lin MM. **Am J Law Med** 1996;22(1):109–34 (242 ref.)
Agreement near on use of human genetic information [news] Dyer C. **BMJ** 1996 Nov 16;313(7067):1223
Patenting of genes moves one stage closer [news] Watson R. **BMJ** 1997 Jul 26;315(7102):207
Gene researchers promised relief from regulatory burden [news] **Nature** 1997 May 1;387(6628):7
The status of genetic material and genetic information in The Netherlands. de Witte JI, et al. **Soc Sci Med** 1997 Jul; 45(1):45–9 (32 ref.)

METHODS see GENETIC TECHNIQUES

ORGANIZATION & ADMINISTRATION

Cold Spring Harbor Laboratory. **Curr Biol** 1996 Jul 1;6(7):767
The 1996 Thomas Hunt Morgan Medal Franklin W. Stahl. Drake JW. **Genetics** 1997 Jan;145(1):1–2
HGS-TIGR splits, opportunity knocks [editorial] **Nat Biotechnol** 1997 Aug;15(8):693

STANDARDS

Ownership of genetic material and information. de Witte JI, et al. **Soc Sci Med** 1997 Jul;45(1):51–60

TRENDS

From genetic research to new thoughts about evaluating psychotherapy: child psychiatry approaches the year 2000 [editorial; comment] Minde K. **Can J Psychiatry** 1997 Aug; 42(6):561–2. Comment on: Can J Psychiatry 1997 Aug;42(6):569–76. Comment on: Can J Psychiatry 1997 Aug;42(6):577–83.

Implications of genetic research for child psychiatry [see comments] Rutter M. **Can J Psychiatry** 1997 Aug; 42(6):569–76 (115 ref.). Comment in: Can J Psychiatry 1997 Aug;42(6):561–2.

The explosion of neurogenetics [editorial] Hurko O. **Curr Opin Neurol** 1997 Apr;10(2):77–83 (103 ref.)

Scientists reach a turning point with gene nomenclature [news] Kuska B. **J Natl Cancer Inst** 1997 Sep 17; 89(18):1332–4

Cardiff '95: the late adolescence of psychiatric genetics [news] Kennedy JL. **Mol Psychiatry** 1996 Mar;1(1):13–4

What lies beyond bioinformatics? Palsson BO. **Nat Biotechnol** 1997 Jan;15(1):3–4

Looking ahead: some genetic issues of the future. Neel JV. **Perspect Biol Med** 1997 Spring;40(3):328–47

GENETICS, BEHAVIORAL

Genetic versus Environmental Determination of Human Behaviour and Health. Nobel symposium on the 150th anniversary of the Department of Paediatrics at the Karolinska Institute. 22–24 January 1996. **Acta Paediatr Suppl** 1997 Jul;422:1–116

Experience Producing Drive Theory: how genes drive experience and shape personality. Bouchard TJ Jr. **Acta Paediatr Suppl** 1997 Jul;422:60–4 (41 ref.)

Conceptualizing genetic influences on early behavioral development. Goldsmith HH, et al. **Acta Paediatr Suppl** 1997 Jul;422:54–9 (25 ref.)

Rise of neurogenetic determinism. Rose SP. **Acta Paediatr Suppl** 1997 Jul;422:38–40 (7 ref.)

Of monkeys and men: vervets and the genetics of human-like behaviors. Palmour RM, et al. **Am J Hum Genet** 1997 Sep; 61(3):481–8

Behavioral genetics '97: ASHG statement. Recent developments in human behavioral genetics: past accomplishments and future directions [see comments] Sherman SL, et al. **Am J Hum Genet** 1997 Jun; 60(6):1265–75 (58 ref.). Comment in: Am J Hum Genet 1997 Jun;60(6):1283–8.

Communicative genes and the evolution of empathy. Selfish and social emotions as voices of selfish and social genes. Buck R, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:481–3

Genetic discoveries in human behavior: small effect genes loom large [editorial] Benjamin J, et al. **Biol Psychiatry** 1996 Sep 1;40(5):313–6

Genetics of criminal and antisocial behavior. Proceedings of a symposium. London, 14–16 February 1995. **Ciba Found Symp** 1996;194:1–283

Assessing the role of genetics in crime using adoption cohorts. Brennan PA, et al. **Ciba Found Symp** 1996; 194:115–23; discussion 123–28 (25 ref.)

Aggression from a developmental perspective: genes, environments and interactions. Cairns RB. **Ciba Found Symp** 1996;194:45–56; discussion 57–60 (31 ref.)

Evolutionary adaptationism: another biological approach to criminal and antisocial behaviour. Daly M. **Ciba Found Symp** 1996;194:183–91; discussion 192–5 (30 ref.)

Legal implications of genetics and crime research. Denno DW. **Ciba Found Symp** 1996;194:248–56; discussion 256–64

The implications for responsibility of possible genetic factors in the explanation of violence. Glover J. **Ciba Found Symp** 1996;194:237–47 (6 ref.)

A twin study of self-reported criminal behaviour. Lyons MJ. **Ciba Found Symp** 1996;194:61–70; discussion 70–5 (23 ref.)

Issues in the search for candidate genes in mice as potential animal models of human aggression. Maxson SC. **Ciba Found Symp** 1996;194:21–30; discussion 30–5 (47 ref.)

Quantitative trait loci mapping in mouse models of complex behavior. Ferraro TN, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:771–81 (57 ref.)

Genes and behavior: will genetic information change the way we see ourselves? Backlar P. **Community Ment Health J** 1996 Jun;32(3):205–9

A behavior-genetic approach to multiple chemical sensitivity. Newlin DB. **Environ Health Perspect** 1997 Mar; 105 Suppl 2:505–8 (26 ref.)

Taking behavioral genetics seriously. Parens E. **Hastings Cent Rep** 1996 Jul–Aug;26(4):13–8

Genetic approaches to the study of memory in insects. Lopatina NG, et al. **Neurosci Behav Physiol** 1997 May–Jun; 27(3):250–3 (12 ref.)

The onset of inter-human contacts: longitudinal ultrasound observations in early twin pregnancies. Arabin B, et al. **Ultrasound Obstet Gynecol** 1996 Sep;8(3):166–73

Behavioral genetics [see comments] Reus VI. **West J Med** 1996 Mar;164(3):260. Comment in: West J Med 1996 Jul–Aug;165(1–2):83.

[Genes and human behavior] Salamanca-Gómez F. **Gac Med Mex** 1996 Nov–Dec;132(6):643–4 **(Spa)**

[Inheritance and health. Nobel symposium on the significance of genes, placenta and breast milk for our destiny] Lagercrantz H. **Lakartidningen** 1996 Sep 18;93(38):3259–60 **(Swe)**

ECONOMICS

DNA by mail: an inexpensive and noninvasive method for collecting DNA samples from widely dispersed populations. Freeman B, et al. **Behav Genet** 1997 May; 27(3):251–7

HISTORY

Legacy of German psychiatric genetics: hindsight is always 20/20 [editorial] Gottesman II, et al. **Am J Med Genet** 1996 Jul 26;67(4):317–22 (69 ref.)

Ernst Rüdin, 1874–1952: a German psychiatrist and geneticist [editorial] Weber MM. **Am J Med Genet** 1996 Jul 26; 67(4):323–31

Ernst Rüdin (1874–1952) and his genealogic-demographic department in Munich (1917–1986): an introduction to their family studies of schizophrenia. Zerbin-Rüdin E, et al. **Am J Med Genet** 1996 Jul 26;67(4):332–7 (56 ref.)

Galton Lecture. Behaviour genetic studies of intelligence, yesterday and today: the long journey from plausibility to proof. Bouchard TJ Jr. **J Biosoc Sci** 1996 Oct; 28(4):527–55

LEGISLATION & JURISPRUDENCE

Genetics, antisocial personality, and criminal responsibility. Dinwiddie SH. **Bull Am Acad Psychiatry Law** 1996; 24(1):95–108 (76 ref.)

METHODS

[A new wave of behavior genetic modeling using covariance structure analysis] Toyoda H. **Shinrigaku Kenkyu** 1997 Feb; 67(6):464–73 (26 ref.) (Eng. Abstr.) **(Jpn)**

TRENDS

Genetics and behavioral medicine. McClearn GE, et al. **Behav Med** 1996 Fall;22(3):93–102 (26 ref.)

Transgenic bagels and neurotic genes [editorial] **Nat Biotechnol** 1997 Jan;15(1):1

GENETICS, BIOCHEMICAL

see related

NUCLEIC ACIDS

A critical review of genetic studies of schizophrenia. II. Molecular genetic studies. Portin P, et al. **Acta Psychiatr Scand** 1997 Feb;95(2):73–80 (128 ref.)

Classical clinical genetics in the era of molecular genetics [editorial] Méhes K. **Am J Med Genet** 1996 Feb 2; 61(4):394–5

Molecular genetics of bipolar disorder [editorial] Berrettini WH, et al. **Ann Med** 1996 Jun;28(3):191–4 (44 ref.)

Unravelling the molecular genetics of osteoarthrosis. Vikkula M, et al. **Ann Med** 1996 Aug;28(4):301–4 (25 ref.)

The molecular genetics of multiple endocrine neoplasia type 2A and related syndromes. Moley JF. **Annu Rev Med** 1997; 48:409–20 (27 ref.)

Genetic factors in dilated cardiomyopathy. Mestroni L, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89 Spec No 2:15–20 (343 ref.)

The revolution in molecular genetics and its impact on ophthalmology. Della NG. **Aust N Z J Ophthalmol** 1996 May;24(2):85–95 (86 ref.)

At mid-point in the molecular revolution [editorial] Neel JV. **Bioessays** 1996 Dec;18(12):943–4

Canalization: a molecular genetic perspective. Wilkins AS. **Bioessays** 1997 Mar;19(3):257–62 (55 ref.)

Advances in post mortem molecular neurochemistry and neuropathology: examples from schizophrenia research. Harrison PJ. **Br Med Bull** 1996 Jul;52(3):527–38 (62 ref.)

Introduction to molecular genetics. Hodes ME. **Cancer Invest** 1997;15(4):322–5 (7 ref.)

Molecular biology and molecular genetics of nitric oxide synthase genes. Nadaud S, et al. **Clin Exp Hypertens** 1996 Feb;18(2):113–43 (88 ref.)

Molecular interactions of aging and cancer. Lee SW, et al. **Clin Geriatr Med** 1997 Feb;13(1):69–77 (64 ref.)

DnaSP version 2.0: a novel software package for extensive molecular population genetics analysis. Rozas J, et al. **Comput Appl Biosci** 1997 Jun;13(3):307–11

Peter Goodfellow: sex, drugs and poetry. Smith MJ. **Curr Biol** 1996 Jul 1;6(7):762–3

Molecular genetics. **Curr Opin Cardiol** 1997 May;12(3):B91–7

Sox genes find their feet. Pevny LH, et al. **Curr Opin Genet Dev** 1997 Jun;7(3):338–44 (70 ref.)

Those elusive molecular diagnostics CPT codes [news] Grody WW, et al. **Diagn Mol Pathol** 1997 Jun;6(3):131–3

A glossary of molecular genetics. **Drug Ther Bull** 1996 Feb; 34(2):15–6

Application of molecular genetics to the study of beta-cell function and diabetes mellitus. Poller WC. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:15–22 (81 ref.)

The power and promise of molecular genetics in gastroenterology [editorial; comment] Miller LJ. **Gastroenterology** 1996 Jun;110(6):2015–7 (16 ref.). Comment on: Gastroenterology 1996 Jun;110(6):1975–80.

Molecular genetics in clinical practice: the series begins [editorial] McKusick VA. **Hosp Pract (Off Ed)** 1997 Jan 15;32(1):11–2

The genetics of aging. Martin GM. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):47–50, 55–6, 59–61 passim (8 ref.)

CIBA Award for hypertension research 1996. **Hypertension** 1997 Jan;29(1 Pt 2):B5–6

Molecular genetics of posterior uveitis. Ohno S, et al. **Int Ophthalmol Clin** 1995 Summer;35(3):21–32 (69 ref.)

New advances in the molecular biology of musculoskeletal neoplasms. Morcuende JA, et al. **Iowa Orthop J** 1997; 17:115–20 (58 ref.)

Clinical molecular genetic testing. Brzustowicz LM, et al. **J Am Med Womens Assoc** 1997 Winter;52(1):11–5 (21 ref.)

Molecular genetics of glaucoma: current status. Alward WL, et al. **J Glaucoma** 1996 Aug;5(4):276–84 (98 ref.)

Molecular medicine: from laboratory to clinical practice. Sharma P, et al. **J R Coll Physicians Lond** 1997 May–Jun; 31(3):328–31

Henrik Kacser (1918–1995): an annotated bibliography. Cornish-Bowden A. **J Theor Biol** 1996 Oct 7;182(3):195–9

Medical conservatism and molecular genetics [letter] Theodoropoulos DS. **JAMA** 1997 Mar 26;277(12):962–3

Molecular genetics of demyelination: new wrinkles on an old membrane. Scherer SS. **Neuron** 1997 Jan;18(1):13–6 (22 ref.)

Mantle cell lymphoma. A morphological, immunohistochemical and molecular genetic study. Loyson SA, et al. **Pathol Res Pract** 1996 Aug;192(8):781–9

Molecular genetic diagnosis of infectious diseases. McCabe KM, et al. **Pediatr Ann** 1997 Sep;26(9):547–52

Can cardiologists disregard cardiac genetics and molecular biology? [editorial] Bouvagnet P. **S Afr Med J** 1997 Jun; 87 Suppl 3:C133–4

The genomics gamble [news] Cohen J. **Science** 1997 Feb 7; 275(5301):767–72

The new genomics: global views of biology [see comments] Lander ES. **Science** 1996 Oct 25;274(5287):536–9. Comment in: Science 1996 Dec 6;274(5293):1594–5.

The genetics of melanoma. Fraser MC, et al. **Semin Oncol Nurs** 1997 May;13(2):108–14 (72 ref.)

Applications of genetic technologies to cancer screening, prevention, diagnosis, prognosis, and treatment. Peters JA. **Semin Oncol Nurs** 1997 May;13(2):74–81 (45 ref.)

Molecular carcinogenesis of prostate cancer: potential clinical relevance and nursing implications. Weber CE. **Semin Oncol Nurs** 1997 May;13(2):99–107 (54 ref.)

Molecular genetics of renal cell carcinoma. Wagner JR, et al. **Semin Urol Oncol** 1996 Nov;14(4):244–9 (60 ref.)

[Notions of molecular genetics] Jeunemaître X. **Arch Mal Coeur Vaiss** 1997 Jun;90 Spec No 3:11–5 (Eng. Abstr.) **(Fre)**

[Molecular genetic diagnosis in endocrinology] Badenhoop K, et al. **Med Klin** 1996 Feb 15;91 Suppl 1:50–3 (20 ref.) **(Ger)**

[Molecular genetics of hereditary breast carcinoma] Hampl M, et al. **Zentralbl Chir** 1997;122(2):67–73 (76 ref.) (Eng. Abstr.) **(Ger)**

[The role of genetic studies in the diagnosis and classification of non-Hodgkin lymphoma] Matolcsy A. **Orv Hetil** 1997 Aug 10;138(32):1999–2003 (Eng. Abstr.) **(Hun)**

[Molecular genetic approach to geriatric diseases] Kumahara Y. **Nippon Ronen Igakkai Zasshi** 1996 Jul;33(7):489–94 (20 ref.) **(Jpn)**

[Origin of the pathogenic vibrios in the environment: inference from the studies on the molecular genetics of Vibrio cholerae and Vibrio parahaemolyticus] Nishibuchi M. **Nippon Saikingaku Zasshi** 1996 Aug;51(3):823–32 (15 ref.) **(Jpn)**

[Problems of molecular genetics of inherited diseases] Gaitskhoki VS. **Vestn Ross Akad Med Nauk** 1996;(9):8–14 (40 ref.) (Eng. Abstr.) **(Rus)**

[Basic concepts in molecular genetics] Baiget M. **Neurologia** 1995 Dec;10 Suppl 1:2–7 (9 ref.) (Eng. Abstr.) **(Spa)**

[The contribution of molecular genetics to the study of spinal muscular atrophy] Bussaglia E, et al. **Neurologia** 1996 Dec; 11 Suppl 5:14–9 (24 ref.) (Eng. Abstr.) **(Spa)**

[Molecular genetic study in congenital myotonic dystrophy] Martin P, et al. **Rev Neurol** 1997 Jun;25(142):833–6 (Eng. Abstr.) **(Spa)**

EDUCATION

Medical ethics, teaching and the new genetics [editorial] [see comments] Williamson B. **J Med Ethics** 1996 Dec; 22(6):325–6. Comment in: J Med Ethics 1996 Dec;22(6):323–4.

[Essays on modern molecular genetics from a lecture course for students of the biology department of Moscow State University. Essay 5. Transgenosis and new molecular genetics] Sverdlov ED. **Mol Gen Mikrobiol Virusol** 1996 Oct–Dec;(4):3–32 (65 ref.) **(Rus)**

HISTORY

Ultraviolet-induced mutation and the chemical nature of the gene. Stadler D. **Genetics** 1997 Apr;145(4):863–5

Dr Henrik Kacser (1918–1995). Fell D. **J Theor Biol** 1996 Oct 7;182(3):193–4, 201–7

Interview of Jean Brachet by Jan Sapp. Arco Felice, Italy, December 10, 1980 [interview] Brachet J.

GENETICS, BIOCHEMICAL

Pubbl Stn Zool Napoli II 1997;19(1):113–40

Standardizing practices: a socio-history of experimental systems in classical genetic and virological cancer research, ca. 1920–1978. Fujimura JH. **Pubbl Stn Zool Napoli II** 1996; 18(1):3–54

Jean Brachet, l'hérédité générale and the origins of molecular embryology. Sapp J. **Pubbl Stn Zool Napoli II** 1997; 19(1):69–87

Contributions of the 'Rouge–Cloître group' to the notion of 'messenger RNA'. Thieffry D.
Pubbl Stn Zool Napoli II 1997;19(1):89–111

[Basic concepts. History and evolution of modern neurogenetics] Martí-Massó JF. **Rev Neurol** 1996 Mar; 24(127):311–4 **(Spa)**

METHODS

Modern molecular genetic approaches to psychiatric disease. Craddock N, et al. **Br Med Bull** 1996 Jul;52(3):434–52

The genetics of mental retardation. Flint J, et al.
Br Med Bull 1996 Jul;52(3):453–64 (71 ref.)

Strategies and logistical requirements for efficient testing in genetic disease. Jackson-Cook C, et al. **Clin Lab Med** 1995 Dec;15(4):839–57 (32 ref.)

Molecular basis of genetic disease and molecular methods. McPherson RA. **Clin Lab Med** 1995 Dec;15(4):779–94 (54 ref.)

Genetic redundancy: screening for selection in yeast. Brookfield JFY. **Curr Biol** 1997 Jun 1;7(6):R366–8 (6 ref.)

Progress in molecular cytogenetics. Porwit-Bóbr Z.
Folia Histochem Cytobiol 1996;34 Suppl 1:5–6

Molecular genetic alterations as intermediate end points in chemoprevention studies. Conti CJ, et al.
IARC Sci Publ 1996;(139):249–60 (95 ref.)

Molecular pathological diagnosis of ocular infections. Hogan RN, et al. **Int Ophthalmol Clin** 1996 Summer;36(3):223–46 (91 ref.)

The application of molecular genetic techniques to the study of hypertensive diseases. Re RN. **Med Clin North Am** 1997 Sep;81(5):1099–112 (126 ref.)

In vitro assay for reiterative transcription during transcriptional initiation by Escherichia coli RNA polymerase. Qi F, et al. **Methods Enzymol** 1996;273:71–85 (18 ref.)

Rigorous and quantitative assay of transcription in vitro. Zhang H, et al. **Methods Enzymol** 1996;273:86–99 (39 ref.)

From oligonucleotide shapes to genomic SELEX: novel biological regulatory loops. Gold L, et al.
Proc Natl Acad Sci U S A 1997 Jan 7;94(1):59–64 (42 ref.)

Ligation based HLA-B*27 typing. Fischer GF, et al.
Tissue Antigens 1996 Sep;48(3):148–52

The role of cytogenetics in the classification of soft tissue tumours. Dei Tos AP, et al. **Virchows Arch** 1997 Aug; 431(2):83–94 (110 ref.)

'Marker swap' plasmids: convenient tools for budding yeast molecular genetics. Cross FR. **Yeast** 1997 Jun 15; 13(7):647–53

ORGANIZATION & ADMINISTRATION

Genomics's wheelers and dealers [news] **Science** 1997 Feb 7;275(5301):774–5

Key player: Daniel Cohen. ...and a recent recruit [news] Butler M. **Science** 1997 Feb 7;275(5301):773

Key player: Kevin Kinsella. The industry's top showman... [news] Cohen J. **Science** 1997 Feb 7;275(5301):773

TRENDS

Advances in molecular genetics. Lairmore TC, et al.
Am J Surg 1997 Jan;173(1):37–41; discussion 42–3 (15 ref.)

In response to "Molecular pathology, informed consent, and the paraffin block" [letter] Biesecker LG.
Diagn Mol Pathol 1996 Mar;5(1):74–5

Pathology and laboratory medicine. McManus BM, et al. **JAMA** 1997 Jun 18;277(23):1887–9

Diagnostic molecular genetics: current applications and future technologies. Gregg JP, et al. **Pediatr Ann** 1997 Sep; 26(9):553–61

[Molecular medicine—a challenge of the 21st century (editorial)] Danev S. **Mol Med (Sofia)** 1996;1(2):3 **(Bul)**

GENETICS, HUMAN see **GENETICS, MEDICAL**

GENETICS, MEDICAL

see related
CHROMOSOME ABNORMALITIES
DISEASES IN TWINS
EUGENICS
HEREDITARY DISEASES

Genetic versus Environmental Determination of Human Behaviour and Health. Nobel symposium on the 150th anniversary of the Department of Paediatrics at the Karolinska Institute. 22–24 January 1996.
Acta Paediatr Suppl 1997 Jul;422:1–116

Transmission-disequilibrium tests for quantitative traits [published erratum appears in Am J Hum Genet 1997 Jun;60(6):1571] Allison DB. **Am J Hum Genet** 1997 Mar; 60(3):676–90

1996 William Allan Award Address. Algorithms and inferences: the challenge of multifactorial diseases. Elston RC. **Am J Hum Genet** 1997 Feb;60(2):255–62

1996 ASHG Presidential Address. Toward the 21st century. Epstein CJ. **Am J Hum Genet** 1997 Jan;60(1):1–9

Insurance underwriting in the genetic era. Pokorski RJ.
Am J Hum Genet 1997 Jan;60(1):205–16 (67 ref.)

Behavioral genetics '97: ASHG statement. Recent developments in human behavioral genetics: past accomplishments and future directions [see comments] Sherman SL, et al. **Am J Hum Genet** 1997 Jun; 60(6):1265–75 (58 ref.). Comment in: Am J Hum Genet 1997 Jun;60(6):1283–8.

Association of professors of human or medical genetics: summary of first annual workshop. Friedman JM.
Am J Med Genet 1996 Oct 28;65(3):235–40

Ethical standards in molecular medicine: will anyone care what medical geneticists have to say? [letter] Rothenberg LS. **Am J Med Genet** 1996 Dec 2;66(1):92–4

Happy families. Ollier B, et al. **Ann Rheum Dis** 1997 Mar; 56(3):149–50

Molecular genetic aspects of human mitochondrial disorders. Larsson NG, et al. **Annu Rev Genet** 1995;29:151–78 (164 ref.)

DNA repair in humans. Sancar A. **Annu Rev Genet** 1995; 29:69–105 (225 ref.)

Guidelines for the retention, storage, and use of residual dried blood spot samples after newborn screening analysis: statement of the Council of Regional Networks for Genetic Services. Therrell BL, et al. **Biochem Mol Med** 1996 Apr; 57(2):116–24

Genes and inheritance. Middelton LA, et al. **Cancer Nurs** 1997 Apr;20(2):129–47; quiz 148–51 (7 ref.)

Genetics of disease. **Curr Opin Genet Dev** 1997 Jun; 7(3):425–51

Homeobox genes and disease. Boncinelli E.
Curr Opin Genet Dev 1997 Jun;7(3):331–7 (67 ref.)

Web alert. Genetics of disease. Makalowski W, et al.
Curr Opin Genet Dev 1997 Jun;7(3):327

From gene to screen with yeast. Oliver SG.
Curr Opin Genet Dev 1997 Jun;7(3):405–9 (49 ref.)

Genetics and the population [editorial] Korf BR.
Curr Opin Pediatr 1996 Dec;8(6):615–7

Human and clinical cytogenetics: origins, evolution and impact. Polani PE. **Eur J Hum Genet** 1997 May–Jun; 5(3):117–28

Widukind Lenz. february 4, 1919–february 25, 1995. Vogel F. **Eur J Hum Genet** 1995;3(6):384–7

General score tests for associations of genetic markers with disease using cases and their parents. Schaid DJ.
Genet Epidemiol 1996;13(5):423–49

An approach to high-throughput genotyping. Hall JM, et al. **Genome Res** 1996 Sep;6(9):781–90 (32 ref.)

Rare disease genes—lessons and challenges. Peltonen L, et al. **Genome Res** 1997 Aug;7(8):765–7

The ethics of genetic research on sexual orientation. Schüklenk U, et al. **Hastings Cent Rep** 1997 Jul–Aug; 27(4):6–13 (36 ref.)

Implications of genetic research for medical practice and education. Tam EK. **Hawaii Med J** 1997 Jun;56(6):140–1

Genes preserved in relatives. Guo SW, et al. **Hum Hered** 1997 May–Jun;47(3):138–54

Genetics, the free market and reproductive medicine. Johnson MH. **Hum Reprod** 1997 Mar;12(3):408–10

Charles Darwin and the foundations of clinical genetics in dentistry. Slavkin HC. **J Am Dent Assoc** 1997 Feb; 128(2):241–5

Genetics and women's health [editorial] Hubbard R.
J Am Med Womens Assoc 1997 Winter;52(1):2–3

Genetic identification of children of the disappeared in Argentina. Penchaszadeh VB.
J Am Med Womens Assoc 1997 Winter;52(1):16–21, 27 (39 ref.)

Nature, nurture, and core gender identity. Robbins M.
J Am Psychoanal Assoc 1996;44 Suppl:93–117 (107 ref.)

Analysis of disease-causing genes and DNA-based drugs by capillary electrophoresis. Towards DNA diagnosis and gene therapy for human diseases. Baba Y.
J Chromatogr B Biomed Appl 1996 Dec 13;687(2):271–302 (115 ref.)

Use of human tissues in research: clarifying clinician and researcher roles and information flows. Merz JF, et al.
J Investig Med 1997 Jun;45(5):252–7

In situ hybridization: a new tool in molecular medicine. Charuruks N, et al. **J Med Assoc Thai** 1996 Jun; 79(6):374–81 (37 ref.)

British Human Genetics Conference 1996. University of York, September 16–18, 1996. Abstracts. **J Med Genet** 1996 Sep;33 Suppl 1:S1–65

Report of the Fifth European Meeting on Psychosocial Aspects of Genetics. Barnes C, et al. **J Med Genet** 1997 Apr;34(4):346–8

The representation of ethnic minorities at genetic clinics in Birmingham. Roberts A, et al. **J Med Genet** 1996 Jan; 33(1):56–8

The role and practice of the genetic nurse: report of the AGNC Working Party. Skirton H, et al. **J Med Genet** 1997 Feb;34(2):141–7

Congress of Molecular Medicine. Berlin, May 3–5, 1997. Abstracts. **J Mol Med** 1997 May;75(5):B1–146

Genetics. **JAMA** 1997 Oct 15;278(15):1212–87

1997 Albert Lasker and Gairdner Foundation International Medical Research awardees named [news] Goldsmith MF. **JAMA** 1997 Oct 8;278(14):1138, 1140

Genomic medicine. Internet resources for medical genetics. Sikorski R, et al. **JAMA** 1997 Oct 15;278(15):1212–3

Center for genetic research on scleroderma [news] Skolnick AA. **JAMA** 1997 Oct 15;278(15):1224

Model organisms illuminate human genetics and disease. van Heyningen V. **Mol Med** 1997 Apr;3(4):231–7 (48 ref.)

New research on psychiatric genetics at the 149th annual meeting of the American Psychiatric Association [news] Hu RJ. **Mol Psychiatry** 1996 Jul;1(3):174–5

Should you hire an epistemologist?[letter] Bains W.
Nat Biotechnol 1997 May;15(5):396

Cloning our way to "the next level". Newman SA.
Nat Biotechnol 1997 Jun;15(6):488

A celebration and a farewell [news] Goodfellow P.
Nat Genet 1997 Jul;16(3):209–10

Ethics and genetics in China: an inside story [letter] Mao X. **Nat Genet** 1997 Sep;17(1):20

Ethical issues in genetic research: disclosure and informed consent. Reilly PR, et al. **Nat Genet** 1997 Jan;15(1):16–20

Ashkenazi signals are timely [editorial] **Nature** 1997 Sep 25; 389(6649):315

Insurers agree moratorium on gene data [news] **Nature** 1997 Feb 20;385(6618):663

German physicians warn of genetics risks [news] Abbott A. **Nature** 1996 Nov 7;384(6604):5

France unveils plans for 'strategic' gene sequencing centre [news] Butler D. **Nature** 1996 Oct 10;383(6600):466

Genetics and ethics in China [letter; comment] Griffiths AJ. **Nature** 1996 Oct 17;383(6601):569. Comment on: Nature 1996 Sep 19;383(6597):204.

Is cloning an attack on human dignity? [letter; comment] [see comments] Harris J. **Nature** 1997 Jun 19;387(6635):754 . Comment on: Nature 1997 Feb 27;385(6619):810–3. Comment on: Nature 1997 Mar 13;386(6621):119. Comment in: Nature 1997 Jul 3;388(6637):15. Comment in: Nature 1997 Jul 24;388(6640):320.

India approves genetic diversity study [news] Jayaraman KS. **Nature** 1996 Dec 5;384(6608):394

India may set up genetics advisory panel [news] Jayaraman KS. **Nature** 1997 Jun 26;387(6636):836

Jewish leaders seek genetic guidelines...[news] Lehrman S. **Nature** 1997 Sep 25;389(6649):322

First for biotech [letter] Myklebost O. **Nature** 1996 Nov 21; 384(6606):208

UK human genetics panel established [news] O'Brien C. **Nature** 1996 Dec 5;384(6608):393

Unesco text will target gene techniques [news] [see comments] Wadman M. **Nature** 1997 Aug 7;388(6642):508 . Comment in: Nature 1997 Aug 7;388(6642):501.

...as Israel offers to test adopted children [news] Watzman H. **Nature** 1997 Sep 25;389(6649):322

DNA data could spawn 'genetic underclass,' says VA physician. **Oncology (Huntingt)** 1997 Mar;11(3):366

Dysmorphology in the next millennium: history of medical genetics. Van Allen MI. **Pediatr Ann** 1997 Sep;26(9):540–5

The genomics gamble [news] Cohen J. **Science** 1997 Feb 7; 275(5301):767–72

New funds plant seeds for genome research effort [news] Kahn P. **Science** 1997 Jan 3;275(5296):25–6

Watson urges 'put Hitler behind us' [news] Koenig R.
Science 1997 May 9;276(5314):892

Panel urges cloning ethics board [news] [see comments] Marshall E. **Science** 1997 Jan 3;275(5296):22. Comment in: Science 1997 Jan 31;275(5300):602.

The genome project's conscience [news] [published erratum appears in Science 1996 Nov 15;274(5290):1069] Marshall E. **Science** 1996 Oct 25;274(5287):488–90

Genetic information and the workplace: legislative approaches and policy changes. Rothenberg K, et al.
Science 1997 Mar 21;275(5307):1755–7

Whitehead, three firms splice a deal [news] Roush W.
Science 1997 May 9;276(5314):891

NIH, Hopkins team up on genotyping [news] Stone R.
Science 1997 Jan 10;275(5297):153

From science fiction to ethics quandary [news] Vogel G.
Science 1997 Sep 19;277(5333):1753–4

Principles of genetics and cancer. Williams JK.
Semin Oncol Nurs 1997 May;13(2):68–73 (23 ref.)

Hydrops fetalis: role of the geneticist. Steiner RD.
Semin Perinatol 1995 Dec;19(6):516–24 (70 ref.)

Genetic research, adolescents, and informed consent. Weir RF, et al. **Theor Med** 1995 Dec;16(4):347–73 (78 ref.)

Resources for human geneticists. Lewitter F.
Trends Genet 1996 Dec;12(12):531–2

[Medicine facing the challenge of genetics: from singular workshop to public health] Mattei JF.
Bull Acad Natl Med 1996 Jun–Jul;180(6):1303–9; discussion 1309–14 (Eng. Abstr.) **(Fre)**

[Advances in genetics: what benefits children? (editorial)] Lyonnet S, et al. **Presse Med** 1996 Nov 2;25(33):1575–6 (Eng. Abstr.) **(Fre)**

[Genetic epidemiology and frequent multifactorial diseases] Cambien F. **Rev Epidemiol Sante Publique** 1996 Nov; 44(6):530–9 (Eng. Abstr.) **(Fre)**

[Is molecular biology useful to the practitioner?] Waeber G, et al. **Schweiz Med Wochenschr** 1997 Mar 29;127(13):554–60 (28 ref.) (Eng. Abstr.) **(Fre)**

[Monogenic hereditary diseases in Gorno-Mariĭskiĭ district of Mariĭ El republic] Ginter EK, et al. **Genetika** 1996 May; 32(5):702–8 (Eng. Abstr.) **(Rus)**

[Genetic structure and the load of hereditary diseases in five populations of Arkhangel'skaia region] Mamedova RA, et al. **Genetika** 1996 Jun;32(6):837–41 (Eng. Abstr.) **(Rus)**

[Cloning, biobanks, multicultural meetings, medical

turism....Medical ethics confronted with new challenges] Hermerén G. **Lakartidningen** 1997 Aug 6;94(32–33):2701–7 (47 ref.) **(Swe)**

[Inheritance and health. Nobel symposium on the significance of genes, placenta and breast milk for our destiny] Lagercrantz H. **Lakartidningen** 1996 Sep 18;93(38):3259–60 **(Swe)**

ECONOMICS

The impact of managed care on genetic testing laboratories in the United States. Mark HF, et al. **Cytobios** 1996; 88(352):43–52 (8 ref.)

EDUCATION

1996 ASHG Award for excellence in education. Remarks on receiving the ASHG award for education. Childs B. **Am J Hum Genet** 1997 Feb;60(2):263–4

The first 25 years of human genetics in Newcastle. Papiha SS. **Hum Biol** 1996 Oct;68(5):603–6

Medical ethics, teaching and the new genetics [editorial] [see comments] Williamson B. **J Med Ethics** 1996 Dec; 22(6):325–6. Comment in: J Med Ethics 1996 Dec;22(6):323–4.

Preparing health professionals for the genetic revolution [editorial] Collins FS. **JAMA** 1997 Oct 15;278(15):1285–6

As discoveries unfold, a new urgency to bring genetic literacy to physicians [news] Stephenson J. **JAMA** 1997 Oct 15;278(15):1225–6

HISTORY

Living history–biography: a rambling rationalist. Frota–Pessoa O. **Am J Med Genet** 1996 Jun 28; 63(4):585–602

Giorgio Filippi, April 4, 1935–January 19, 1996. Siniscalco M. **Am J Med Genet** 1997 Jan 10;68(1):94–7

In memorium Walter Fuhrmann. Vogel F. **Am J Med Genet** 1997 Apr 14;69(4):345–7

The future of gene mapping. Morton NE, et al. **Genet Anal** 1997 Mar;14(1):25–7

The first 25 years of human genetics in Newcastle. Papiha SS. **Hum Biol** 1996 Oct;68(5):603–6

LEGISLATION & JURISPRUDENCE

Anonymous genetic testing: reply to Mehlman et al. [letter] Clayton EW, et al. **Am J Hum Genet** 1996 Nov; 59(5):1169–70

The laws of genetics. Baram M. **Environ Health Perspect** 1997 May;105(5):488–91

Bioethics group finds no objection to human gene patents [news] Abbott A. **Nature** 1996 Oct 3;383(6599):368

Clinton backs Congressional efforts on genetic discrimination [news] Lehrman S. **Nature** 1997 Jul 17;388(6639):216

Public–sector patents on human DNA [letter] Thomas SM, et al. **Nature** 1997 Aug 21;388(6644):709

US panel to back longer cloning ban, ducks thornier questions [news] Wadman M. **Nature** 1997 May 15;387(6630):217–8

Senate bill seeks controls on genetic data [news] Wadman M. **Nature** 1997 Mar 20;386(6622):203

Governor blocks genetic property right [news] Wadman M. **Nature** 1996 Oct 3;383(6599):367

New Jersey outlaws genetic discrimination [news] Wadman M. **Nature** 1996 Nov 21;384(6606):202

'No consensus' on FDA role in gene tests [news] Wadman M. **Nature** 1997 Apr 10;386(6625):531

Law urged to check genetic discrimination [news] Wadman M. **Nature** 1997 Mar 27;386(6623):312

METHODS

Differentiating between fetal and maternal genotypic effects, using the transmission test for linkage disequilibrium [letter] Mitchell LE. **Am J Hum Genet** 1997 Apr;60(4):1006–7

The Japan Society of Human Genetics Award Lecture. Application of DNA markers to clinical genetics. Nakamura Y. **Jpn J Hum Genet** 1996 Mar;41(1):1–10 (61 ref.)

The use of a genetic map of biallelic markers in linkage studies. Kruglyak L. **Nat Genet** 1997 Sep;17(1):21–4

New opportunities for uncovering the molecular basis of cancer [news; comment] [see comments] Strausberg RL, et al. **Nat Genet** 1997 Apr;15 Spec No:415–6. Comment on: Nat Genet 1997 Apr;15 Spec No:417–74. Comment in: Nat Genet 1997 Apr;15 Spec No:413.

ORGANIZATION & ADMINISTRATION

International collaboration in genetics research [letter; comment] Chatterji S, et al. **Nat Genet** 1997 Feb;15(2):124 . Comment on: Nat Genet 1996 Jun;13(2):142.

Genomics's wheelers and dealers [news] **Science** 1997 Feb 7;275(5301):774–5

Key player: Daniel Cohen. ...and a recent recruit [news] Butler M. **Science** 1997 Feb 7;275(5301):773

Key player: Kevin Kinsella. The industry's top showman... [news] Cohen J. **Science** 1997 Feb 7;275(5301):773

Alzheimer's maverick moves to industry [news] Marshall E. **Science** 1997 Jun 27;276(5321):1962

STANDARDS

The laws of genetics. Baram M. **Environ Health Perspect** 1997 May;105(5):488–91

STATISTICS & NUMERICAL DATA

Power and sample size calculations for case–control studies of gene–environment interactions with a polytomous exposure variable. Foppa I, et al. **Am J Epidemiol** 1997 Oct 1;146(7):596–604

TRENDS

Medical and clinical genetics: their roots and challenge. Polani PE. **Acta Genet Med Gemellol (Roma)** 1996; 45(1–2):127–36 (43 ref.)

Advances in genetics. Lees MM, et al. **Arch Dis Child** 1996 Oct;75(4):346–50 (72 ref.)

Genes, disease and medicine. Dykes CW. **Br J Clin Pharmacol** 1996 Dec;42(6):683–95 (53 ref.)

Putting genes into modern epidemiology: "nature–nurture" and beyond [editorial; comment] Leon D. **Epidemiology** 1997 Jan;8(1):2–4. Comment on: Epidemiology 1997 Jan;8(1):6–11.

Society and the not–so–new genetics: what are we afraid of? Some future predictions from a social scientist. Wertz DC. **J Contemp Health Law Policy** 1997 Spring; 13(2):299–345 (130 ref.)

Genetics: changing health care in the 21st century. Jones SL. **J Obstet Gynecol Neonatal Nurs** 1996 Nov–Dec; 25(9):777–83 (21 ref.)

Clinical genetics services into the 21st century. Summary of a report of the Clinical Genetics Committee of the Royal College of Physicians. Harper PS, et al. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):296–301

Medical genetics. Caskey CT. **JAMA** 1997 Jun 18; 277(23):1869–70

Genetics is coming to oncology [editorial] Livingston DM. **JAMA** 1997 May 14;277(18):1476–7

Family history and genetic risk factors: forward to the future [editorial; comment] Pyeritz RE. **JAMA** 1997 Oct 15; 278(15):1284–5. Comment on: JAMA 1997 Oct 15;278(15):1242–50. Comment on: JAMA 1997 Oct 15;278(15):1251–5. Comment on: JAMA 1997 Oct 15;278(15):1262–7. Comment on: JAMA 1997 Oct 15;278(15):1268–72.

Molecular neurogenetics: the genome is settling the issue [editorial; comment] Rosenberg RN. **JAMA** 1997 Oct 15; 278(15):1282–3. Comment on: JAMA 1997 Oct 15;278(15):1237–41. Comment on: JAMA 1997 Oct 15;278(15):1256–61.

A piece of my mind. A 'normal' practice. Rubinstein WS. **JAMA** 1997 Oct 15;278(15):1216

A pediatrician's view. Destiny [editorial] Altemeier WA 3rd, et al. **Pediatr Ann** 1997 Sep;26(9):516–9

The resident's column. Dipple KM. **Pediatr Ann** 1997 Sep; 26(9):523–4

Diagnostic molecular genetics: current applications and future technologies. Gregg JP, et al. **Pediatr Ann** 1997 Sep; 26(9):553–61

Molecular pediatrics: fundamental changes in our approaches to child health. McCabe ER. **Pediatr Ann** 1997 Sep; 26(9):520–2

The epidemiology and genetic basis of common diseases. Raffel LJ. **Pediatr Ann** 1997 Sep;26(9):525–34

[Possibilities and problems created by the development in human genetics] Van den Berghe H. **Verh K Acad Geneeskd Belg** 1996;58(4):339–56; discussion 356–8 (Eng. Abstr.) **(Dut)**

[Learning from the gene (editorial)] Monteiro C. **Acta Med Port** 1997 May;10(5):337–8 **(Por)**

[Medical genetics in Ukraine: reflections after a congress (news)] Baryliak IR, et al. **Tsitol Genet** 1996 Mar–Apr; 30(2):83–7 **(Ukr)**

GENETICS, MICROBIAL

see related
CHROMOSOMES, BACTERIAL
CHROMOSOMES, FUNGAL

Do ruminal bacteria exchange genetic material? Morrison M. **J Dairy Sci** 1996 Aug;79(8):1476–86 (62 ref.)

Molecular genetic diagnosis of infectious diseases. McCabe KM, et al. **Pediatr Ann** 1997 Sep;26(9):547–52

METHODS

Genetic tools in pathogenic nocardioform actinomycetes. Navas J. **Microbiologia** 1996 Jun;12(2):297–304 (30 ref.)

TRENDS

[Genetic therapy; the role of the microbiologist and his future (editorial)] Regueiro BJ. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):57–9 **(Spa)**

GENETICS, MOLECULAR see **GENETICS, BIOCHEMICAL**

GENETICS, POPULATION

Phylogeography and genetic divergence of some lymnaeid snails, intermediate hosts of human and animal fascioliasis with special reference to lymnaeids from the Bolivian Altiplano. Jabbour–Zahab R, et al. **Acta Trop** 1997 Apr 15;64(3–4):191–203

Microsatellite markers for genetic population studies in Glossina palpalis (Diptera: Glossinidae). Solano P, et al. **Acta Trop** 1997 May 30;65(3):175–80

Testing linkage equilibrium on allelic data between VNTR loci. Fung WK. **Am J Forensic Med Pathol** 1997 Jun; 18(2):172–6

Age and origin of two common MLH1 mutations predisposing to hereditary colon cancer. Moisio AL, et al. **Am J Hum Genet** 1996 Dec;59(6):1243–51

A view of the neolithic demic diffusion in Europe through two Y chromosome–specific markers [letter] Semino O, et al. **Am J Hum Genet** 1996 Oct;59(4):964–8

Population genetics of BRCA1 and BRCA2 [editorial; comment] Szabo CI, et al. **Am J Hum Genet** 1997 May; 60(5):1013–20. Comment on: Am J Hum Genet 1997 May;60(5):1021–30. Comment on: Am J Hum Genet 1997 May;60(5):1031–40. Comment on: Am J Hum Genet 1997 May;60(5):1041–9. Comment on: Am J Hum Genet 1997 May;60(5):1050–8. Comment on: Am J Hum Genet 1997 May;60(5):1059–67. Comment on: Am J Hum Genet 1997 May;60(5):1068–78. Comment on: Am J Hum Genet 1997 May;60(5):1079–84.

Tel Aviv–Heidelberg three–generation offspring study: genetic determinants of plasma fibrinogen level. Livshits G, et al. **Am J Med Genet** 1996 Jun 28;63(4):509–17

Selection of homogeneous populations for genetic study: the Portugal genetics of psychosis project. Pato CN, et al. **Am J Med Genet** 1997 May 31;74(3):286–8

The "Basqueness" of the Basques of Alava: a reappraisal from a multidisciplinary perspective. Manzano C, et al. **Am J Phys Anthropol** 1996 Feb;99(2):249–58

Population history of Corsica: a linguistic and genetic analysis. Calafell F, et al. **Ann Hum Biol** 1996 May–Jun; 23(3):237–51

The Wai Wai Indians of South America: history and genetics. Callegari–Jacques SM, et al. **Ann Hum Biol** 1996 May–Jun; 23(3):189–201

Genetic analysis of Sardinia: I. data on 12 polymorphisms in 21 linguistic domains. Cappello N, et al. **Ann Hum Genet** 1996 Mar;60 (Pt 2):125–41

Population stratifications can cause false positive linkage results if founders are untyped. Curtis D, et al. **Ann Hum Genet** 1996 May;60 (Pt 3):261–3

The genetic structure of a province as revealed by surnames and HLA genes: potential utility in transplantation policy. Guglielmino CR, et al. **Ann Hum Genet** 1996 May;60 (Pt 3):221–9

Population haplotype analysis and evolutionary relations of the COL2A1 gene. Meulenbelt I, et al. **Ann Hum Genet** 1996 May;60 (Pt 3):189–99

Assessment of genetic diversity in space by superimposition of a distorted geographic map with a spatial population clustering. Application to GM haplotypes of native Amerindian tribes. Mourrieras B, et al. **Ann Hum Genet** 1997 Jan;61 (Pt 1):37–47

Testing a genetic equilibrium across strata. Nam JM. **Ann Hum Genet** 1997 Mar;61 (Pt 2):163–70

Site 73 in hypervariable region II of the human mitochondrial genome and the origin of European populations. Wilkinson–Herbots HM, et al. **Ann Hum Genet** 1996 Nov; 60 (Pt 6):499–508

Coalescents and genealogical structure under neutrality. Donnelly P, et al. **Annu Rev Genet** 1995;29:401–21 (52 ref.)

Population genetic perspectives on the evolution of recombination. Feldman MW, et al. **Annu Rev Genet** 1996; 30:261–95 (119 ref.)

Ecological population genetics: the interface between genes and the environment. Hoffmann AA, et al. **Annu Rev Genet** 1995;29:349–70 (169 ref.)

Genetic studies in Medzev, an isolate in south–eastern Slovakia. 1. History, demography, marriage patterns. Siváková D, et al. **Anthropol Anz** 1996 Sep;54(3):193–200

Genetic variation at structural loci in the Glossina morsitans species group. Krafsur ES, et al. **Biochem Genet** 1997 Feb; 35(1–2):1–11

Genetic diversity and divergence in Chinese yak (Bos grunniens) populations inferred from blood protein electrophoresis. Tu ZC, et al. **Biochem Genet** 1997 Feb; 35(1–2):13–6

Re–evaluating genetic algorithm performance under coordinate rotation of benchmark functions. A survey of some theoretical and practical aspects of genetic algorithms. Salomon R. **Biosystems** 1996;39(3):263–78

GELSTATS: a computer program for population genetics analyses using VNTR multilocus probe data. Rogstad SH, et al. **Biotechniques** 1996 Dec;21(6):1128–31

G6PD: population genetics and clinical manifestations. Beutler E. **Blood Rev** 1996 Mar;10(1):45–52 (104 ref.)

PCR analysis of the STR HUMF13A01 in a population sample of central Italy. Buscemi L, et al. **Boll Soc Ital Biol Sper** 1997 Jan–Feb;73(1–2):9–14

The population genetics of factor V Leiden (Arg506Gln) [see comments] Rees DC. **Br J Haematol** 1996 Dec; 95(4):579–86 (61 ref.). Comment in: Br J Haematol 1997 May;97(2):504–5. Comment in: Br J Haematol 1997 Jun;97(3):688–9. Comment in: Br J Haematol 1997 Jun;97(4):940.

Spectrum of CFTR mutations in Argentine cystic fibrosis patients. Chertkoff L, et al. **Clin Genet** 1997 Jan;51(1):43–7

The population genetics of antibiotic resistance. Levin BR, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S9–16

Genetic variation in arthropod vectors of disease–causing organisms: obstacles and opportunities. Gooding RH. **Clin Microbiol Rev** 1996 Jul;9(3):301–20 (196 ref.)

DnaSP version 2.0: a novel software package for extensive molecular population genetics analysis. Rozas J, et al. **Comput Appl Biosci** 1997 Jun;13(3):307–11

PhenoDB: an integrated client/server database for linkage and population genetics. Cheung KH, et al. **Comput Biomed Res** 1996 Aug;29(4):327–37

Reinvestigation of a genetic-based classifier system: the effectiveness of recombination. van Kampen AH, et al. **Comput Chem** 1997;21(3):153–60

Population genetics. Brookfield J. **Curr Biol** 1996 Apr 1; 6(4):354–6 (5 ref.)

Inversion polymorphism in natural populations of Drosophila bipectinata. Banerjee R, et al. **Cytobios** 1996;87(348):31–43

Familial aggregation of inflammatory bowel disease in a Mediterranean area. Cipolla C, et al. **Eur J Epidemiol** 1996 Apr;12(2):205–10

HLA-DQA1 subtyping data in the Swiss population. Gehrig C, et al. **Forensic Sci Int** 1996 Nov 11;83(1):27–30

Spanish population data on seven loci: D1S80, D17S5, HUMTH01, HUMVWA, ACTBP2, D21S11 and HLA-DQA1. Lorente M, et al. **Forensic Sci Int** 1997 May 5;86(3):163–71

Validation of family history of breast cancer and identification of the BRCA1 and other syndromes using a population-based cancer registry. Anton-Culver H, et al. **Genet Epidemiol** 1996;13(2):193–205

Estimating disease risks for individuals with a given family history in different populations with an application to breast cancer. Becher H, et al. **Genet Epidemiol** 1996;13(3):229–42

Prevalence of factor V Leiden mutation in various populations. Herrmann FH, et al. **Genet Epidemiol** 1997; 14(4):403–11

Population-based family study designs: an interdisciplinary research framework for genetic epidemiology. Zhao LP, et al. **Genet Epidemiol** 1997;14(4):365–88 (37 ref.)

Characterization of natural populations of Drosophila melanogaster with regard to the hobo system: a new hypothesis on the invasion. Bonnivard E, et al. **Genet Res** 1997 Jun;69(3):197–208

Is group selection a factor modulating the virulence of RNA viruses? Miralles R, et al. **Genet Res** 1997 Jun;69(3):165–72

The use of selection experiments for detecting quantitative trait loci. Ollivier L, et al. **Genet Res** 1997 Jun;69(3):227–32

Human phylogenetic relationships according to the D1S80 locus. Duncan G, et al. **Genetica** 1996–97;98(3):277–87

Analysis of inbreeding in a colonizing population of Drosophila subobscura. Pegueroles G, et al. **Genetica** 1996–97;98(3):289–96

Population and behaviour genetics of Drosophila ananassae. Singh BN. **Genetica** 1996 May;97(3):321–9 (85 ref.)

Bootstrap tests for specific hypotheses at single locus inbreeding coefficients. Van Dongen S, et al. **Genetica** 1997; 99(1):47–58

The probability distribution of the amount of an individual's genome surviving to the following generation. Bickeböller H, et al. **Genetics** 1996 Jun;143(2):1043–9

Description and power analysis of two tests for detecting recent population bottlenecks from allele frequency data. Cornuet JM, et al. **Genetics** 1996 Dec;144(4):2001–14

Testing differentiation in diploid populations. Goudet J, et al. **Genetics** 1996 Dec;144(4):1933–40

A coalescent estimator of the population recombination rate. Hey J, et al. **Genetics** 1997 Mar;145(3):833–46

Nature of deleterious mutation load in Drosophila. Keightley PD. **Genetics** 1996 Dec;144(4):1993–9

A population genetics model of marker-assisted selection. Luo ZW, et al. **Genetics** 1997 Jul;146(3):1173–83

Constraints on allele size at microsatellite loci: implications for genetic differentiation. Nauta MJ, et al. **Genetics** 1996 Jun;143(2):1021–32

A likelihood approach to populations samples of microsatellite alleles. Nielsen R. **Genetics** 1997 Jun; 146(2):711–6

The probability of fixation in populations of changing size. Otto SP, et al. **Genetics** 1997 Jun;146(2):723–33

Quantitative trait loci analysis for five milk production traits on chromosome six in the Dutch Holstein-Friesian population. Spelman RJ, et al. **Genetics** 1996 Dec; 144(4):1799–808

A population genetic study of the evolution of SINEs. II. Sequence evolution under the master copy model. Tachida H. **Genetics** 1996 Jun;143(2):1033–42

Classification of European mtDNAs from an analysis of three European populations. Torroni A, et al. **Genetics** 1996 Dec; 144(4):1835–50

Inferring patterns of migration from gene frequencies under equilibrium conditions. Tufto J, et al. **Genetics** 1996 Dec; 144(4):1911–21

Marker-assisted introgression in backcross breeding programs. Visscher PM, et al. **Genetics** 1996 Dec; 144(4):1923–32

Estimating ancestral population parameters. Wakeley J, et al. **Genetics** 1997 Mar;145(3):847–55

Selection response in finite populations. Wei M, et al. **Genetics** 1996 Dec;144(4):1961–74

Computation of the full likelihood function for estimating variance at a quantitative trait locus. Xu S. **Genetics** 1996 Dec;144(4):1951–60

Statistical properties of a DNA sample under the finite-sites model. Yang Z. **Genetics** 1996 Dec;144(4):1941–50

Rare disease genes--lessons and challenges. Peltonen L, et al. **Genome Res** 1997 Aug;7(8):765–7

Genetic heterogeneity of beta-thalassemia in populations of the Iberian Peninsula. Ribeiro ML, et al. **Hemoglobin** 1997 May;21(3):261–9

Genetic substructuring as a result of barriers to gene flow in urban Rana temporaria (common frog) populations: implications for biodiversity conservation. Hitchings SP, et al. **Heredity** 1997 Aug;79 (Pt 2):117–27

Gene genealogy in a population of variable size. Rannala B. **Heredity** 1997 Apr;78 (Pt 4):417–23

Developmental stability and environmental stress in Salmo salar (Atlantic salmon). Vøllestad LA, et al. **Heredity** 1997 Feb;78 (Pt 2):215–22

Microevolution and genetic affinities among six Amerindian tribes of lower Central America: comparative genetic study of serum proteins. Bieber H, et al. **Hum Biol** 1996 Dec; 68(6):929–53

Tracing prehistoric migrations by the viruses they carry: human T-cell lymphotropic viruses as markers of ethnic relationships. Black FL. **Hum Biol** 1997 Aug;69(4):467–82

Evolutionary and anthropological implications of mitochondrial DNA variation in African Brazilian populations. Bortolini MC, et al. **Hum Biol** 1997 Apr; 69(2):141–59

Population structure and genetic differentiation among 16 tribal populations of central India. Das K, et al. **Hum Biol** 1996 Oct;68(5):679–705

Dermatoglyphics in Araucanian Indians from Patagonia and multivariate comparisons with other Argentinian aboriginal populations. Demarchi DA, et al. **Hum Biol** 1997 Apr; 69(2):227–39

Seventeenth-century European origins of hereditary diseases in the Saguenay population (Quebec, Canada). Heyer E, et al. **Hum Biol** 1997 Apr;69(2):209–25

Genetic differentiation and population structure of some occupational caste groups in Uttar Pradesh, India. Lanchbury JS, et al. **Hum Biol** 1996 Oct;68(5):655–78

Genetic structure of populations in western Tyrol. Mager K, et al. **Hum Biol** 1996 Dec;68(6):915–27

Correlations of quantitative chromosomal heteromorphisms and classic genetic markers to demogeographic data in Garfagnana valley (Tuscany, Italy). Paoli G, et al. **Hum Biol** 1997 Feb;69(1):11–29

Genetic study of the tribal populations of Andhra Pradesh, south India. Papiha SS, et al. **Hum Biol** 1997 Apr; 69(2):171–99

Genetic variation in Sri Lanka. Papiha SS, et al. **Hum Biol** 1996 Oct;68(5):707–37

Immunoglobulin allotypes and estimation of genetic admixture among populations of Kinnaur District, Himachal Pradesh, India. Papiha SS, et al. **Hum Biol** 1996 Oct;68(5):777–94

Population genetic study of three VNTR loci (D2S44, D7S22, and D12S11) in five ethnically defined populations of the Indian subcontinent. Papiha SS, et al. **Hum Biol** 1996 Oct;68(5):819–35

Genetic variation in the population of Ibiza (Spain): genetic structure, geography, and language. Picornell A, et al. **Hum Biol** 1996 Dec;68(6):899–913

Historical genetics in Uruguay: estimates of biological origins and their problems. Sans M, et al. **Hum Biol** 1997 Apr; 69(2):161–70

Historical population movements in Europe influence genetic relationships in modern samples. Sokal RR, et al. **Hum Biol** 1996 Dec;68(6):873–98

Novel mitochondrial DNA insertion polymorphism and its usefulness for human population studies. Thomas R, et al. **Hum Biol** 1996 Dec;68(6):847–54

Phenylketonuria and the peoples of Northern Ireland. Zschocke J, et al. **Hum Genet** 1997 Aug;100(2):189–94

Genetic study in Panaquire, a Venezuelan population. Castro de Guerra D, et al. **Hum Hered** 1996 Nov-Dec;46(6):323–8

Ethnic differences in interferon-alpha allele frequencies. Golovleva I, et al. **Hum Hered** 1997 Jul-Aug;47(4):185–8

Allele frequencies for 20 microsatellites in a worldwide population survey. Pérez-Lezaun A, et al. **Hum Hered** 1997 Jul-Aug;47(4):189–96

Extensive gene flow in human populations as revealed by protein and microsatellite DNA markers. Santos EJ, et al. **Hum Hered** 1997 May-Jun;47(3):165–72

Estimating Y chromosome specific microsatellite mutation frequencies using deep rooting pedigrees. Heyer E, et al. **Hum Mol Genet** 1997 May;6(5):799–803

Population-specific screening by mutation analysis for diseases frequent in Ashkenazi Jews. DeMarchi JM, et al. **Hum Mutat** 1996;8(2):116–25

Geographic distribution and regional origin of 272 cystic fibrosis mutations in European populations. The Biomed CF Mutation Analysis Consortium. Estivill X, et al. **Hum Mutat** 1997;10(2):135–54

Population genetics of STR loci in Caucasians. Balding DJ, et al. **Int J Legal Med** 1996;108(6):300–5

North Italian population genetic data on the STR system HumFGA. Betti F, et al. **Int J Legal Med** 1997;110(2):110–1

The STR systems HumVWA and HumACTBP2 in a Hungarian population. Csete K, et al. **Int J Legal Med** 1996; 108(6):316–7

Chromosome Y microsatellites: population genetic and evolutionary aspects. de Knijff P, et al. **Int J Legal Med** 1997;110(3):134–49

A population study of the STR loci HUMLPL, HUMF13B, and HUMF13A01 in Hungary. Füredi S, et al. **Int J Legal Med** 1997;110(2):107–8

Semi-automatic DNA profiling in a Hungarian Romany population using the STR loci HumVWFA31, HumTH01, HumTPOX, and HumCSF1PO. Füredi S, et al. **Int J Legal Med** 1997;110(4):184–7

Population study of the STRs HUMTH01 (including a new variant) and HUMVWA31A in Catalonia (northeast Spain). Gené M, et al. **Int J Legal Med** 1996;108(6):318–20

Population data for the STR systems HumTH01, HumVWA and FES/FPS in a population sample from lower Franconia. Günther S, et al. **Int J Legal Med** 1996; 109(2):102–3

Population genetic and family data for the human minisatellite locus D16S309 (MS205) in Germans. Henke L, et al. **Int J Legal Med** 1996;109(4):178–80

Analysis of the short tandem repeat systems HumVWA and HumF13B in a population sample from northern Thailand. Horst B, et al. **Int J Legal Med** 1997;110(4):235–7

HLA-DQA1 in autochthonous Basques: description of a genocline for the DQA1*0201 allele in Europe. Iriondo M, et al. **Int J Legal Med** 1996;109(4):181–5

Genetic variation at five STR loci in subpopulations living in Turkey. Iwasa M, et al. **Int J Legal Med** 1997; 110(3):170–2

Short tandem repeat polymorphism at the HUMCD4 and HUMF13B loci in a Croatian population. Kubat M, et al. **Int J Legal Med** 1997;110(4):230–1

Analysis of the STR myelin basic protein locus in Koreans. Lee SD, et al. **Int J Legal Med** 1997;110(3):173–4

A concordance of nucleotide substitutions in the first and second hypervariable segments of the human mtDNA control region. Miller KW, et al. **Int J Legal Med** 1996; 109(3):107–13

Allele detection and population study in Japanese using two STR loci (CYP19 and HUMTH01). Takahashi M, et al. **Int J Legal Med** 1996;108(6):321–2

Relationship of people across an international border based on an isonymy analysis across the German-Danish frontier. Boldsen J, et al. **J Biosoc Sci** 1996 Apr;28(2):177–83

Extent of heterogeneity in mitochondrial DNA of sub-Saharan African populations. Melton T, et al. **J Forensic Sci** 1997 Jul;42(4):582–92

Genetic variations at four tetrameric tandem repeat loci in Korean population. Park SJ, et al. **J Forensic Sci** 1997 Jan; 42(1):125–9

Population study of the HUMTH01, HUMVWA31A, HUMF13A1, and HUMFES/FPS STR polymorphisms in the north of Portugal. Pinheiro F, et al. **J Forensic Sci** 1997 Jan;42(1):121–4

Genetic variation of southern hemisphere fur seals (Arctocephalus spp.): investigation of population structure and species identity. Lento GM, et al. **J Hered** 1997 May-Jun;88(3):202–8

Gene flow and genetic diversity in naturally fragmented metapopulations of deep-sea hydrothermal vent animals. Vrijenhoek RC. **J Hered** 1997 Jul-Aug;88(4):285–93 (67 ref.)

On the non-existence of an optimal migration rate. Lemire M, et al. **J Math Biol** 1997 Jun;35(6):657–82

Adh nucleotide variation in Drosophila willistoni: high replacement polymorphism in an electrophoretically monomorphic protein. Griffith EC, et al. **J Mol Evol** 1997 Sep;45(3):232–7

Population genetics of Y-chromosome short tandem repeats in humans. Pérez-Lezaun A, et al. **J Mol Evol** 1997 Sep; 45(3):265–70

Modelling evolving populations. Prügel-Bennett A. **J Theor Biol** 1997 Mar 7;185(1):81–95

A common mutation in methylenetetrahydrofolate reductase gene among the Japanese population. Nishio H, et al. **Jpn J Hum Genet** 1996 Jun;41(2):247–51

Trinucleotide repeats not the only cause of anticipation. Fraser FC. **Lancet** 1997 Aug 16;350(9076):459–60

The genetic structure of Escherichia coli populations in feral house mice. Gordon DM. **Microbiology** 1997 Jun;143 (Pt 6):2039–46

Geographic variation in human mitochondrial DNA control region sequence: the population history of Turkey and its relationship to the European populations. Comas D, et al. **Mol Biol Evol** 1996 Oct;13(8):1067–77

Lack of geographic variation in anonymous nuclear polymorphisms in the American oyster, Crassostrea virginica. McDonald JH, et al. **Mol Biol Evol** 1996 Oct; 13(8):1114–8

The apportionment of dinucleotide repeat diversity in Native Americans and Europeans: a new approach to measuring gene identity reveals asymmetric patterns of divergence. Urbanek M, et al. **Mol Biol Evol** 1996 Sep;13(7):943–53

Polymorphic molecular markers from anonymous nuclear DNA for genetic analysis of populations [published erratum appears in Mol Ecol 1997 Jul;6(7):700] Bagley MJ, et al. **Mol Ecol** 1997 Apr;6(4):309–20

Population differentiation and evolution in the common guillemot Uria aalge. Friesen VL, et al. **Mol Ecol** 1996 Dec;5(6):793–805

Patterns of differentiation among wild rabbit populations Oryctolagus cuniculus L. in arid and semiarid ecosystems of north-eastern Australia. Fuller SJ, et al. **Mol Ecol** 1997 Feb;6(2):145–53

Population and colony structure of the carpenter ant Camponotus floridanus. Gadau J, et al. **Mol Ecol** 1996 Dec; 5(6):785–92

Sex-related spatial kin structure in a spring population of

grey-sided voles Clethrionomys rufocanus as revealed by mitochondrial and microsatellite DNA analyses. Ishibashi Y, et al. **Mol Ecol** 1997 Jan;6(1):63–71

Relatedness structure detected by microsatellite analysis and attempted pedigree reconstruction in an endangered marsupial, the northern hairy-nosed wombat Lasiorhinus krefftii. Taylor AC, et al. **Mol Ecol** 1997 Jan;6(1):9–19

Molecular genetic examination of the polymorphic Arctic charr Salvelinus alpinus of Thingvallavatn, Iceland. Volpe JP, et al. **Mol Ecol** 1996 Dec;5(6):763–72

Re: Phylogenetic relationships of the Canary Islands endemic lizard genus Gallotia inferred from mitochondrial DNA sequences: incorporation of a new subspecies [letter] Rando JC, et al. **Mol Phylogenet Evol** 1997 Aug;8(1):114–6

Global distribution of the CCR5 gene 32-basepair deletion. Martinson JJ, et al. **Nat Genet** 1997 May;16(1):100–3

The allele frequency distribution at VNTR locus D17S5 (YNZ22) in a Japanese population sample. Harashima N, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):237–40

Frequency of the three STR loci (TPOX, CSF1PO, THo1), in a Japanese population determined using a Gene Print STR multiplex kit. Yamaguchi H, et al. **Nippon Hoigaku Zasshi** 1996 Jun;50(3):163–7

Population genetics and the detection of immunogenic and drug-resistant loci in Plasmodium. Hastings IM. **Parasitology** 1996 Feb;112 (Pt 2):155–64

Genes, ethnicity, and risk assessment. Unrau P, et al. **Perspect Biol Med** 1996 Winter;39(2):239–47

The genetical history of an isolated population of the endangered grey wolf Canis lupus: a study of nuclear and mitochondrial polymorphisms. Ellegren H, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Dec 29; 351(1348):1661–9

A single and early migration for the peopling of the Americas supported by mitochondrial DNA sequence data. Bonatto SL, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4; 94(5):1866–71

Genes, peoples, and languages. Cavalli-Sforza LL. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7719–24

Relative mutation rates at di-, tri-, and tetranucleotide microsatellite loci. Chakraborty R, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1041–6

Philopatry of male marine turtles inferred from mitochondrial DNA markers. FitzSimmons NN, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8912–7

The Malthusian parameter of ascents: what prevents the exponential increase of one's ancestors? Ohno S. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15276–8

Detecting immigration by using multilocus genotypes. Rannala B, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9197–201

Typing of urinary JC virus DNA offers a novel means of tracing human migrations. Sugimoto C, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9191–6

Genetic distinctiveness of a village population of house mice: relevance to speciation and chromosomal evolution. Fraguedakis-Tsolis S, et al. **Proc R Soc Lond B Biol Sci** 1997 Mar 22;264(1380):355–60

Genetic population structure of the prosobranch snail Potamopyrgus antipodarum (Gray) in Denmark using PCR-RAPD fingerprints. Jacobsen R, et al. **Proc R Soc Lond B Biol Sci** 1996 Aug 22;263(1373):1065–70

Direct and correlative phenotypic selection on life-history traits in three pre-industrial human populations. Käär P, et al. **Proc R Soc Lond B Biol Sci** 1996 Nov 22; 263(1376):1475–80

Species, sub-species and hybrid populations of the blowflies Lucilia cuprina and Lucilia sericata (Diptera:Calliphoridae). Stevens J, et al. **Proc R Soc Lond B Biol Sci** 1996 Oct 22;263(1375):1335–41

Population structure of harbour porpoises Phocoena phocoena in the seas around the UK and adjacent waters. Walton MJ. **Proc R Soc Lond B Biol Sci** 1997 Jan 22; 264(1378):89–94

Human population genetics of the VNTR locus D1S80 in the north-eastern Poland. Pepiński W, et al. **Rocz Akad Med Bialymst** 1996;41(2):316–20

Mixture distributions in human genetics research. Schork NJ, et al. **Stat Methods Med Res** 1996 Jun;5(2):155–78 (138 ref.)

Establishment probability in fluctuating environments: a branching process model. Haccou P, et al. **Theor Popul Biol** 1996 Dec;50(3):254–80

Branching process models for mutant genes in nonstationary populations. Lange K, et al. **Theor Popul Biol** 1997 Apr; 51(2):118–33

Deleterious mutations, variable epistatic interactions, and the evolution of recombination. Otto SP, et al. **Theor Popul Biol** 1997 Apr;51(2):134–47 (37 ref.)

The variance of pairwise nucleotide differences in two populations with migration. Wakeley J. **Theor Popul Biol** 1996 Feb;49(1):39–57

Lotka's game in predator-prey theory: linking populations to individuals. Wilson WG. **Theor Popul Biol** 1996 Dec; 50(3):368–93

Characterization of HLA-A*02 subtypes in the Sardinian population. Carcassi C, et al. **Tissue Antigens** 1995 Nov; 46(5):391–3

[Population genetics of short tandem repeat locus HUMTH01] Hou Y, et al. **I Chuan Hsueh Pao** 1996; 23(3):174–82 (Eng. Abstr.) **(Chi)**

[Beta thalassemia in Germany: molecular genetics and clinical phenotype in immigrant and in the native population] Schwarz C, et al. **Klin Padiatr** 1997 Jul-Aug;209(4):172–7 (Eng. Abstr.) **(Ger)**

[Regional differentiation of blood group frequencies in the Polish population] Gronkiewicz L. **Folia Med Cracov** 1996; 37(3-4):13–28 (Eng. Abstr.) **(Pol)**

[Population genetic study of the Russian country: genealogical analysis, inbreeding, and indices of potential selection of two rural populations in the Yaroslavl region] Nazarova AF, et al. **Dokl Akad Nauk** 1996 Jul;349(1):133–7 **(Rus)**

[One approach to comparison of the distribution of the prevalence of congenital defects in populations] Volkov IK, et al. **Dokl Akad Nauk** 1996 Sep;350(2):281–3 **(Rus)**

[Evaluation of the effect of global changes to the environment and climate on the qualitative potential of a population] Krut'ko VN. **Fiziol Cheloveka** 1997 Jan-Feb; 23(1):81–7 **(Rus)**

[Meadow Maris: genes, surnames and migrations] El'chinova GI, et al. **Genetika** 1996 Oct;32(10):1421–2 (Eng. Abstr.) **(Rus)**

[The meadow Mari: inbreeding and endogamy] El'chinova GI, et al. **Genetika** 1996 Sep;32(9):1302–4 (Eng. Abstr.) **(Rus)**

[Geography of effective size of rural populations of Northern Eurasia. Geographic correlation between effective size and level of heterozygosity of populations] Evsiukov AN, et al. **Genetika** 1996 Nov;32(11):1583–91 (Eng. Abstr.) **(Rus)**

[Mutation "outbursts" of various genes in natural populations of Drosophila melanogaster] Gershenzon SM. **Genetika** 1997 Apr;33(4):421–30 (86 ref.) (Eng. Abstr.) **(Rus)**

[Monogenic hereditary diseases in Gorno-Mariĭskiĭ district of Mariĭ El republic] Ginter EK, et al. **Genetika** 1996 May; 32(5):702–8 (Eng. Abstr.) **(Rus)**

[Population-demographic structure of the population of Kursk district. Ethnic composition and age of marriage] Ivanov VP, et al. **Genetika** 1997 Apr;33(4):539–45 (Eng. Abstr.) **(Rus)**

[Genetico-demographic characteristics of the population from three districts of the Bryansk region] Kadoshnikova MIu, et al. **Genetika** 1996 Aug;32(8):1142–7 (Eng. Abstr.) **(Rus)**

[Analysis of polymorphism of the hypervariable locus of the apolipoprotein-B gene in populations of the Volga-Ural region] Khusnutdinova EK, et al. **Genetika** 1996 Dec; 32(12):1678–82 (Eng. Abstr.) **(Rus)**

[Molecular-genetic screening of Siberian swine populations: local breeds are not burdened with a genetic load of malignant hyperthermia] Kniazev SP, et al. **Genetika** 1996 Oct;32(10):1423–5 (Eng. Abstr.) **(Rus)**

[Population genetic characteristics of highland and meadow Mari. Genetic markers] Kravchuk OI, et al. **Genetika** 1996 Apr;32(4):570–5 (Eng. Abstr.) **(Rus)**

[Genetic structure of the Mari population and its genetic position in the system of other Finno-Ugrian population groups] Kravchuk OI, et al. **Genetika** 1996 Sep; 32(9):1277–86 (Eng. Abstr.) **(Rus)**

[Genetic structure and the load of hereditary diseases in five populations of Arkhangel'skaia region] Mamedova RA, et al. **Genetika** 1996 Jun;32(6):837–41 (Eng. Abstr.) **(Rus)**

[Gradualism or punctualism: data on genetic differentiationof small mammals from the Holarctic region] Mezhzherin SV. **Genetika** 1997 Apr;33(4):518–23 (Eng. Abstr.) **(Rus)**

Unique chromosome rearrangements in karyotypes of yellow-necked mice (Apodemus flavicollis) from various populations. Nadzhafova RS. **Genetika** 1997 Jan; 33(1):126–9 (Eng. Abstr.) **(Rus)**

[Genetic-demographic analysis of the population of native inhabitants of the Samburg tundra] Posukh OL, et al. **Genetika** 1996 Jun;32(6):822–9 (Eng. Abstr.) **(Rus)**

[A population genetics study of the allelic polymorphism in the hypervariable region of the apolipoprotein B gene in the population of different regions of Ukraine] Kravchenko SA, et al. **Tsitol Genet** 1996 Sep-Oct;30(5):35–41 (Eng. Abstr.) **(Rus)**

[The spectrum of spinal muscular atrophies: a population study] Rudenskaia GE, et al. **Zh Nevrol Psikhiatr Im S S Korsakova** 1997;97(8):22–5 (Eng. Abstr.) **(Rus)**

[Anemia of falciform cells and the genetics of the Mexican population] Peñaloza R, et al. **Gac Med Mex** 1996 May-Jun;132(3):337–8 **(Spa)**

[Genes of negroid origin in the urban population of Santiago] Etcheverry R. **Rev Med Chil** 1995 Nov;123(11):1423 **(Spa)**

HISTORY

Inbreeding in Escazú, Costa Rica (1800-1840, 1850-1899): isonymy and ecclesiastical dispensations. Madrigal L, et al. **Hum Biol** 1997 Oct;69(5):703–14

RADIATION EFFECTS

[The genetic sequelae of the Chelyabinsk and Chernobyl radioactive contaminations] Bochkov NP, et al. **Vestn Ross Akad Med Nauk** 1996;(6):64–72 (Eng. Abstr.) **(Rus)**

[Genetic or ecogenetic consequences of the Chernobyl accident? (facts and hypotheses)] Buzhiievs'ka TI, et al. **Tsitol Genet** 1996 Jul-Aug;30(4):86–96 (Eng. Abstr.) **(Ukr)**

GENETICS, RADIATION see **RADIATION GENETICS**

GENICULATE BODIES

ABNORMALITIES

A morphological anomaly of the dorsal lateral geniculate nucleus in Macaca fascicularis. O'Brien BJ, et al. **Cell Tissue Res** 1997 Jul;289(1):11–6

Abnormalities of the cortico-geniculate pathway in Siamese cats. Montero VM, et al. **J Comp Neurol** 1978 May 1; 179(1):1–12

ANATOMY & HISTOLOGY

The fine structure of the lateral geniculate complex in the frog Rana esculenta. Lázár G. **Acta Biol Hung** 1996; 47(1-4):273–85

Overlapping ipsilateral and contralateral retinal projections to the lateral geniculate nucleus and superior colliculus in the cat: a retrograde triple labelling study. Tassinari G, et al. **Brain Res Bull** 1997;43(2):127–39

Laminar and retinotopic organization of the macaque lateral geniculate nucleus: magnocellular and parvocellular magnification functions. Malpeli JG, et al. **J Comp Neurol** 1996 Nov 18;375(3):363–77

Distribution and coverage of beta cells in the cat retina. Stein JJ, et al. **J Comp Neurol** 1996 Sep 2;372(4):597–617

The overrepresentation of the fovea and adjacent retina in the striate cortex and dorsal lateral geniculate nucleus of the macaque monkey. Azzopardi P, et al. **Neuroscience** 1996 Jun;72(3):627–39

A projection linking motor cortex with the LM-suprageniculate nuclear complex through the periaqueductal gray area which surrounds the nucleus of Darkschewitsch in the cat. Onodera S, et al. **Prog Brain Res** 1996;112:85–98

[Simulation of the structure and function of the lateral geniculate bodies and visual analyzer system] Radchenko AN. **Fiziol Cheloveka** 1997 Jul-Aug;23(4):28–35 (14 ref.) **(Rus)**

CHEMISTRY

Constant light induces persistent Fos expression in rat intergeniculate leaflet. Edelstein K, et al. **Brain Res** 1996 Aug 26;731(1-2):221–5

Immunocytochemical visualization of the mGluR1a metabotropic glutamate receptor at synapses of corticothalamic terminals originating from area 17 of the rat. Vidnyanszky Z, et al. **Eur J Neurosci** 1996 Jun; 8(6):1061–71

Calretinin immunoreactivity in the thalamus of the squirrel monkey. Fortin M, et al. **J Chem Neuroanat** 1996 Apr; 10(2):101–17

Colocalization of parvalbumin, calretinin and calbindin D-28k in human cortical and subcortical visual structures. Leuba G, et al. **J Chem Neuroanat** 1997 Jun;13(1):41–52

Parvalbumin, calbindin, and calretinin mark distinct pathways during development of monkey dorsal lateral geniculate nucleus. Yan YH, et al. **J Neurobiol** 1996 Oct; 31(2):189–209

Long-term effects of retinal lesions on growth-associated protein 43 (GAP-43) expression in the visual system of adult cats. Baekelandt V, et al. **Neurosci Lett** 1996 Apr 19;208(2):113–6

Selective expression and rapid regulation of GABAA receptor subunits in geniculocortical neurons of macaque dorsal lateral geniculate nucleus. Hendry SH, et al. **Vis Neurosci** 1996 Mar-Apr;13(2):223–35

CYTOLOGY

Quantitative morphological changes in neurons from the dorsal lateral geniculate nucleus of young and old rats. Villena A, et al. **Anat Rec** 1997 May;248(1):137–41

Shrinkage and recovery of cells of the lateral geniculate nuclei with prism-rearing in macaques. Crawford ML, et al. **Behav Brain Res** 1996 Sep;79(1-2):233–8

Linear and non-linear components in the centre-surround response of X- and Y-cells in the cat lateral geniculate nucleus. Funke K, et al. **Brain Res** 1996 Dec 2; 742(1-2):50–62

Audiogenic kindling increases neuronal responses to acoustic stimuli in neurons of the medial geniculate body of the genetically epilepsy-prone rat. N'Gouemó P, et al. **Brain Res** 1997 Jul 4;761(2):217–24

Rapid eye movement sleep deprivation in kittens amplifies LGN cell-size disparity induced by monocular deprivation. Oksenberg A, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):51–61

Evidence that blue-on cells are part of the third geniculocortical pathway in primates. Martin PR, et al. **Eur J Neurosci** 1997 Jul;9(7):1536–41

Possible release of nitric oxide from cholinergic axons in the thalamus by stimulation of the rat laterodorsal tegmental nucleus as measured with voltammetry. Miyazaki M, et al. **J Chem Neuroanat** 1996 Jun;10(3-4):203–7

Development of primary visual projections occurs entirely postnatally in the fat-tailed dunnart, a marsupial mouse, Sminthopsis crassicaudata. Dunlop SA, et al. **J Comp Neurol** 1997 Jul 21;384(1):26–40

Collateral projections of single neurons in the posterior thalamic region to both the temporal cortex and the

amygdala: a fluorescent retrograde double-labeling study in the rat. Namura S, et al. **J Comp Neurol** 1997 Jul 21; 384(1):59–70

A monosynaptic GABAergic input from the inferior colliculus to the medial geniculate body in rat. Peruzzi D, et al. **J Neurosci** 1997 May 15;17(10):3766–77

Are the interlaminar zones of the ferret dorsal lateral geniculate nucleus actually part of the perigeniculate nucleus? Sanchez-Vives MV, et al. **J Neurosci** 1996 Oct 1;16(19):5923–41

Stop and branch behaviors of geniculocortical axons: a time-lapse study in organotypic cocultures. Yamamoto N, et al. **J Neurosci** 1997 May 15;17(10):3653–63

Thalamic relay of spontaneous retinal activity prior to vision. Mooney R, et al. **Neuron** 1996 Nov;17(5):863–74

N omega-nitro-L-arginine methyl ester prevents apoptosis induced in the lateral geniculate nucleus by light deprivation in adult rabbit. Nucci C, et al. **Neuroreport** 1996 Nov 25;7(18):2863–6

Gamma-hydroxybutyric acid decreases thalamic sensory excitatory postsynaptic potentials by an action on presynaptic GABAB receptors. Emri Z, et al. **Neurosci Lett** 1996 Sep 27;216(2):121–4

Transient appearance of GTP cyclohydrolase I--positive non-monoaminergic neurons in the ventral lateral geniculate nucleus of postnatal mice. Nagatsu I, et al. **Neurosci Lett** 1996 Sep 6;215(2):79–82

N-methyl-D-aspartate (NMDA) and non-NMDA glutamate receptor antagonists protect from apoptosis induced in the lateral geniculate nucleus of rabbits exposed to the dark. Nucci C, et al. **Neurosci Lett** 1997 Jul 4;229(3):185–8

The distribution and morphology of LGN K pathway axons within the layers and CO blobs of owl monkey V1. Ding Y, et al. **Vis Neurosci** 1997 Jul-Aug;14(4):691–704

Relationship between numbers of retinal ganglion cells and lateral geniculate neurons in the rhesus monkey. Spear PD, et al. **Vis Neurosci** 1996 Jan-Feb;13(1):199–203

Numerical relationship between neurons in the lateral geniculate nucleus and primary visual cortex in macaque monkeys. Suner I, et al. **Vis Neurosci** 1996 May-Jun; 13(3):585–90

DRUG EFFECTS

(+)-WAY 100135, a partial agonist, at native and recombinant 5-HT1B/1D receptors. Davidson C, et al. **Br J Pharmacol** 1997 Jun;121(4):737–42

Synergism of 5-HT 1B/D antagonists with paroxetine on serotonin efflux in rat ventral lateral geniculate nucleus slices. Davidson C, et al. **Brain Res Bull** 1997;43(4):405–9

Interaction of cholecystokinin and glutamate agonists within the dLGN, the dentate gyrus, and the hippocampus. Gabriel S, et al. **Brain Res Bull** 1996;39(6):381–9

Blockade of afferent impulse activity disrupts on/off sublamination in the ferret lateral geniculate nucleus. Cramer KS, et al. **Brain Res Dev Brain Res** 1997 Feb 20; 98(2):287–90

Different effects of cholinergic agents on responses recorded from the cat visual cortex and lateral geniculate nucleus dorsalis. Arakawa K, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jul; 104(4):375–80

Ozone produces functional deficits in the rat visual pathway. Custodio-Ramírez V, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 104(3):269–73

Effects of cholecystokinin on Y, X, and W cells in the dorsal lateral geniculate nucleus of rats. Gabriel S, et al. **Exp Brain Res** 1996 Apr;109(1):43–55

Isoflurane attenuates resonant responses of auditory thalamic neurons. Tennigkeit F, et al. **J Neurophysiol** 1997 Aug; 78(2):591–6

Effects of dopamine on neurons of the lateral geniculate nucleus: an iontophoretic study. Albrecht D, et al. **Synapse** 1996 Jun;23(2):70–8

EMBRYOLOGY

Properties of developing lateral geniculate neurones in the mouse. MacLeod N, et al. **Int J Dev Neurosci** 1997 Apr; 15(2):205–24

Parvalbumin, calbindin, and calretinin mark distinct pathways during development of monkey dorsal lateral geniculate nucleus. Yan YH, et al. **J Neurobiol** 1996 Oct; 31(2):189–209

Early divergence of magnocellular and parvocellular functional subsystems in the embryonic primate visual system. Meissirel C, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5900–5

Prenatal development of axon outgrowth and connectivity. Casagrande VA, et al. **Prog Brain Res** 1996;108:83–93 (71 ref.)

ENZYMOLOGY

Immunocytochemistry and distribution of parabrachial terminals in the lateral geniculate nucleus of the cat: a comparison with corticogeniculate terminals. Erişir A, et al. **J Comp Neurol** 1997 Jan 27;377(4):535–49

Age dependent modification of cytochrome oxidase activity in the cat dorsal lateral geniculate nucleus following removal of primary visual cortex. Payne BR, et al. **Vis Neurosci** 1996 Sep-Oct;13(5):805–16

GROWTH & DEVELOPMENT

Effects of sleep deprivation on the postnatal development of visual-deprived cells in the cat's lateral geniculate nucleus. Pompeiano O, et al. **Arch Ital Biol** 1995 Dec; 134(1):121–40

Retrograde fluorescent double-labeling study of bilaterally projecting retinal ganglion cells in albino rats at different stages of development. Dong K, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):55–62

Rapid eye movement sleep deprivation in kittens amplifies LGN cell-size disparity induced by monocular deprivation. Oksenberg A, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):51–61

Retinal activity regulates developmental switches in functional properties and ifenprodil sensitivity of NMDA receptors in the lateral geniculate nucleus. Ramoa AS, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1-2):165–75

Properties of developing lateral geniculate neurones in the mouse. MacLeod N, et al. **Int J Dev Neurosci** 1997 Apr; 15(2):205–24

A role for nitric oxide in the development of the ferret retinogeniculate projection. Cramer KS, et al. **J Neurosci** 1996 Dec 15;16(24):7995–8004

Postnatal development of membrane properties and delta oscillations in thalamocortical neurons of the cat dorsal lateral geniculate nucleus. Pirchio M, et al. **J Neurosci** 1997 Jul 15;17(14):5428–44

Emergence of order in visual system development. Shatz CJ. **J Physiol Paris** 1996;90(3-4):141–50 (55 ref.)

METABOLISM

Cat-301 immunoreactivity in the lateral geniculate nucleus and visual cortex of the strabismic amblyopic cat. Yin ZQ, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S107–9

5-HT1B/D antagonists potentiate paroxetine's effect on 5-HT efflux in the lateral geniculate nucleus: in vitro voltammetric data. Davidson C, et al. **Biochem Soc Trans** 1997 Feb;25(1):49S

Distribution of ionotropic glutamate receptor subunit immunoreactivity in the suprachiasmatic nucleus and intergeniculate leaflet of the hamster. Stamp JA, et al. **Brain Res** 1997 May 9;756(1-2):215–24

The influence of nitric oxide on perigeniculate GABAergic cell activity in the anaesthetized cat. Rivadulla C, et al. **Eur J Neurosci** 1996 Dec;8(12):2459–66

Development of adult-type inhibitory glycine receptors in the central auditory system of rats. Friauf E, et al. **J Comp Neurol** 1997 Aug 18;385(1):117–34

Serotonin efflux in the rat ventral lateral geniculate nucleus assessed by fast cyclic voltammetry is modulated by 5-HT1B and 5-HT1D autoreceptors. Davidson C, et al. **Neuropharmacology** 1996;35(11):1627–34

A possible role of transient AChE expression in the medial geniculate of developing rats. Okoyama S, et al. **Neuroreport** 1996 Apr 10;7(5):1067–71

Transient appearance of tyrosine hydroxylase-immunoreactive non-catecholaminergic neurons in the medial geniculate nucleus of postnatal mice. Nagatsu I, et al. **Neurosci Lett** 1996 Jun 28;211(3):183–6

Light microscopic comparison of the patterns of glutamate-like and homocysteate-like immunoreactivities in rat dorsal lateral geniculate after combined visual cortical and retinal ablations. Grandes P, et al. **Neurosci Res** 1997 Apr;27(4):377–80

Acetylcholine releases of mesopontine PGO-on cells in the lateral geniculate nucleus in sleep-waking cycle and serotonergic regulation. Kodama T, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1213–27

Projection status of calbindin- and parvalbumin-immunoreactive neurons in the superficial layers of the rat's superior colliculus. Lane RD, et al. **Vis Neurosci** 1997 Mar-Apr;14(2):277–86

Calcium-binding proteins immunoreactivity in the human subcortical and cortical visual structures. Leuba G, et al. **Vis Neurosci** 1996 Nov-Dec;13(6):997–1009

PATHOLOGY

Transsynaptic degeneration of lateral geniculate bodies in blind children: in vivo MR demonstration. Uggetti C, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):233–8

Selective nerve fibre loss in glaucoma: magnocellular or parvocellular [editorial; comment] Graham SL. **Aust N Z J Ophthalmol** 1997 Aug;25(3):189–91. Comment on: Aust N Z J Ophthalmol 1997 Aug;25(3):239–43.

Magnocellular and parvocellular visual pathways are both affected in a macaque monkey model of glaucoma [see comments] Vickers JC, et al. **Aust N Z J Ophthalmol** 1997 Aug;25(3):239–43. Comment in: Aust N Z J Ophthalmol 1997 Aug;25(3):189–91.

Cell size in the lateral geniculate nucleus of cats reared with esotropia and sagittal transection of the optic chiasm. Garraghty PE, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):127–9

Neuro-ophthalmology of the pregeniculate afferent visual system. Developments in 1996 (Part I). Balcer LJ, et al. **J Neuroophthalmol** 1997 Mar;17(1):60–71 (87 ref.)

Immunohistochemical characterization of the suprachiasmatic nucleus and the intergeniculate leaflet in the hereditary bilaterally microphthalmic rat. Tokunaga A, et al. **Neurosci Res** 1997 Jan;27(1):57–63

PHYSIOLOGY

Nonlinearities within the cat LGN cell receptive fields in simulated network with recurrent inhibition. Musiall P, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(4):927–42

Firing modes and membrane properties in lemniscal auditory thalamus. Tennigkeit F, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):254–7

Shrinkage and recovery of cells of the lateral geniculate nuclei with prism-rearing in macaques. Crawford ML, et al. **Behav Brain Res** 1996 Sep;79(1-2):233–8

Corticofugal feedback can reduce the visual latency of responses to antagonistic stimuli. Köhn J, et al. **Biol Cybern** 1996 Sep;75(3):199–209

Tailoring of variability in the lateral geniculate nucleus of the cat. Levine MW, et al. **Biol Cybern** 1996 Sep; 75(3):219–27

A retrograde fluorescent-labeling study of direct relationship between the limbic (anterodorsal and anteroventral thalamic nuclei) and the visual system in the albino rat. Ahmed AK, et al. **Brain Res** 1996 Aug 5;729(1):119–23

Constant light induces persistent Fos expression in rat intergeniculate leaflet. Edelstein K, et al. **Brain Res** 1996 Aug 26;731(1-2):221–5

The influence of the visual cortex on the spatiotemporal response properties of lateral geniculate nucleus cells. Marrocco RT, et al. **Brain Res** 1996 Oct 21;737(1-2):110–8

Ventral lateral geniculate nucleus afferents to the suprachiasmatic nucleus in the cat. Pu M, et al. **Brain Res** 1996 Jul 1;725(2):247–51

Time course of inhibition induced by a putative saccadic suppression circuit in the dorsal lateral geniculate nucleus of the rabbit. Zhu JJ, et al. **Brain Res Bull** 1996;41(5):281–91

Histochemical characterisation of the pretecto-geniculate projection in kitten and adult cat. Reimann S, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):143–8

Cellular basis of pontine ponto-geniculo-occipital wave generation and modulation. Datta S. **Cell Mol Neurobiol** 1997 Jun;17(3):341–65 (172 ref.)

Synaptogenesis in the occipital cortex of macaque monkey devoid of retinal input from early embryonic stages. Bourgeois JP, et al. **Eur J Neurosci** 1996 May;8(5):942–50

Further observations on the role of nitric oxide in the feline lateral geniculate nucleus. Cudeiro J, et al. **Eur J Neurosci** 1996 Jan;8(1):144–52

Evidence that blue-on cells are part of the third geniculocortical pathway in primates. Martin PR, et al. **Eur J Neurosci** 1997 Jul;9(7):1536–41

Response properties of relay cells in the A-laminae of the cat's dorsal lateral geniculate nucleus after saccades. Fischer WH, et al. **Exp Brain Res** 1996 Aug;110(3):435–45

Development of contrast sensitivity and temporal-frequency selectivity in primate lateral geniculate nucleus. Hawken MJ, et al. **Exp Brain Res** 1997 Mar;114(1):86–98

Transgeniculate signal transmission to middle suprasylvian cortex in intact cats and following early removal of areas 17 and 18: a morphological study. MacNeil MA, et al. **Exp Brain Res** 1997 Mar;114(1):11–23

Retino-geniculate axons regenerating in adult hamsters are able to form morphologically distinct terminals. Carter DA, et al. **Exp Neurol** 1997 Aug;146(2):315–22

The neural architecture of binocular vision. Casagrande VA, et al. **Eye** 1996;10 (Pt 2):153–60 (64 ref.)

The midbrain creates and the thalamus sharpens echo-delay tuning for the cortical representation of target-distance information in the mustached bat. Yan J, et al. **Hear Res** 1996 Apr;93(1-2):102–10

Neuronal basis of amblyopia: a review. Grigg J, et al. **Indian J Ophthalmol** 1996 Jun;44(2):69–76 (40 ref.)

Plasticity of geniculocortical afferents following brief or prolonged monocular occlusion in the cat. Antonini A, et al. **J Comp Neurol** 1996 May 20;369(1):64–82

Postgeniculate afferent visual system and visual higher cortical function, 1994. Wall M. **J Neuroophthalmol** 1996 Mar;16(1):23–32 (52 ref.)

Postgeniculate afferent visual system and visual higher cortical function, 1995-1996. Wall M. **J Neuroophthalmol** 1997 Sep;17(3):209–17 (67 ref.)

Cortical synthesis of azimuth-sensitive single-unit responses with nonmonotonic level tuning: a thalamocortical comparison in the cat. Barone P, et al. **J Neurophysiol** 1996 Mar;75(3):1206–20

Spatiotemporal receptive field organization in the lateral geniculate nucleus of cats and kittens. Cai D, et al. **J Neurophysiol** 1997 Aug;78(2):1045–61

Metabotropic glutamate receptors switch visual response mode of lateral geniculate nucleus cells from burst to tonic. Godwin DW, et al. **J Neurophysiol** 1996 Sep;76(3):1800–16

Burst responses in thalamic relay cells of the awake behaving cat. Guido W, et al. **J Neurophysiol** 1995 Oct;74(4):1782–6

An in vitro model of the kitten retinogeniculate pathway. Guido W, et al. **J Neurophysiol** 1997 Jan;77(1):511–6

Modulatory effects of regional cortical activation on the onset responses of the cat medial geniculate neurons. He J. **J Neurophysiol** 1997 Feb;77(2):896–908

Response variability and timing precision of neuronal spike trains in vivo. Reich DS, et al. **J Neurophysiol** 1997 May; 77(5):2836–41

Sharpening of frequency tuning by inhibition in the thalamic auditory nucleus of the mustached bat. Suga N, et al. **J Neurophysiol** 1997 Apr;77(4):2098–114

Mechanisms for signal transformation in lemniscal auditory thalamus. Tennigkeit F, et al. **J Neurophysiol** 1996 Dec;

76(6):3597–608

Lesions of the medial geniculate nuclei specifically block corticosterone release and induction of c-fos mRNA in the forebrain associated with audiogenic stress in rats. Campeau S, et al. **J Neurosci** 1997 Aug 1;17(15):5979–92

Ultrastructural localization suggests that retinal and cortical inputs access different metabotropic glutamate receptors in the lateral geniculate nucleus. Godwin DW, et al. **J Neurosci** 1996 Dec 15;16(24):8181–92

Response variability of neurons in primary visual cortex (V1) of alert monkeys. Gur M, et al. **J Neurosci** 1997 Apr 15; 17(8):2914–20

Are the interlaminar zones of the ferret dorsal lateral geniculate nucleus actually part of the perigeniculate nucleus? Sanchez-Vives MV, et al. **J Neurosci** 1996 Oct 1;16(19):5923–41

Psychophysical signatures associated with magnocellular and parvocellular pathway contrast gain. Pokorny J, et al. **J Opt Soc Am A** 1997 Sep;14(9):2477–86

Fractal character of the neural spike train in the visual system of the cat. Teich MC, et al. **J Opt Soc Am A** 1997 Mar; 14(3):529–46

Spatial frequency tuning of orientation-discontinuity-sensitive corticofugal feedback to the cat lateral geniculate nucleus. Cudeiro J, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):481–92

Quantal properties of spontaneous EPSCs in neurones of the guinea-pig dorsal lateral geniculate nucleus. Paulsen O, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):759–72

The electrogenic effects of Na(+)-K(+)-ATPase in rat auditory thalamus. Senatorov VV, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):375–85

Differential Na(+)-K(+)-ATPase activity in rat lemniscal and non-lemniscal auditory thalami. Senatorov VV, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):387–95

Bifurcating projections from the retinal ganglion cells to the primary visual targets (SC and LGN) in the cat. Dong K, et al. **Kobe J Med Sci** 1995 Dec;41(6):221–34

Precisely correlated firing in cells of the lateral geniculate nucleus. Alonso JM, et al. **Nature** 1996 Oct 31; 383(6603):815–9

Model of a thalamocortical neurone with dendritic voltage-gated ion channels. Antal K, et al. **Neuroreport** 1997 Mar 3;8(4):1063–6

Corticofugal feedback improves the timing of retino-geniculate signal transmission. Funke K, et al. **Neuroreport** 1996 Sep 2;7(13):2130–4

A model for development of Gabor-receptive fields in simple cortical cells. Hamada T, et al. **Neuroreport** 1996 Feb 29; 7(3):745–8

Cortical direction selectivity without directional experience. Miyashita M, et al. **Neuroreport** 1997 Mar 24;8(5):1187–91

Neuronal subpopulations in the suprachiasmatic nuclei based on their response to retinal and intergeniculate leaflet stimulation. Roig JA, et al. **Neuroreport** 1997 Mar 3; 8(4):885–9

Effect of stimulation of the medial geniculate body on the motor polarization dominant in rabbits. Rusinova EV. **Neurosci Behav Physiol** 1997 Mar-Apr;27(2):117–23

Long-term changes in the efficiency of inhibitory transmission in the thalamocortical neuronal networks induced by microstimulation of the cortex. Sil'kis IG. **Neurosci Behav Physiol** 1996 Sep-Dec;26(5):416–27

Intergeniculate leaflet lesion and daily rhythms in food-restricted rats fed during daytime. Challet E, et al. **Neurosci Lett** 1996 Oct 4;216(3):214–8

Geniculo-cortical afferents form synaptic contacts with vasoactive intestinal polypeptide (VIP) immunoreactive neurons of the rat visual cortex. Hajós F, et al. **Neurosci Lett** 1997 Jun 13;228(3):179–82

The lateral geniculate nucleus does not project to area TE in infant or adult macaques. Sorenson KM, et al. **Neurosci Lett** 1996 Oct 11;217(1):5–8

Alteration of serotonergic innervation in the suprachiasmatic nucleus of the rat following removal of input fibers from retina and lateral geniculate nucleus. Ueda S, et al. **Neurosci Lett** 1996 Jun 21;211(2):97–100

Synaptic excitation in the dorsal nucleus of the lateral lemniscus: whole-cell patch-clamp recordings from rat brain slice. Fu XW, et al. **Neuroscience** 1997 Jun; 78(3):815–27

Nicotinic receptor-mediated responses in relay cells and interneurons in the rat lateral geniculate nucleus. Zhu JJ, et al. **Neuroscience** 1997 Sep;80(1):191–202

Elicited PGO waves in rats: lack of 5-HT1A inhibition in putative pontine generator region. Sanford LD, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):323–7

Daily wheel running activity modifies the period of free-running rhythm in rats via intergeniculate leaflet. Kuroda H, et al. **Physiol Behav** 1997 May;61(5):633–7

GABAergic feedforward projections from the inferior colliculus to the medial geniculate body. Winer JA, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8005–10

Visual, somatosensory and auditory modality properties along the feline suprageniculate-anterior ectosylvian sulcus/insular pathway. Benedek G, et al. **Prog Brain Res** 1996;112:325–34

The role of NMDA receptors and nitric oxide in retinogeniculate development. Cramer KS, et al. **Prog Brain Res** 1996;108:235–44 (84 ref.)

Extrageniculostriate vision in humans: investigations with hemispherectomy patients. Wessinger CM, et al. **Prog Brain Res** 1996;112:405–13

Brightness perception, illusory contours, and corticogeniculate feedback. Gove A, et al. **Vis Neurosci** 1995 Nov-Dec;12(6):1027–52

Temporal-frequency selectivity in monkey visual cortex. Hawken MJ, et al. **Vis Neurosci** 1996 May-Jun;13(3):477–92

Dual response modes in lateral geniculate neurons: mechanisms and functions. Sherman SM. **Vis Neurosci** 1996 Mar-Apr;13(2):205–13 (68 ref.)

Adaptation of visually evoked responses of relay cells in the dorsal lateral geniculate nucleus of the cat following prolonged exposure to drifting gratings. Shou T, et al. **Vis Neurosci** 1996 Jul-Aug;13(4):605–13

Neonatal monocular enucleation and the geniculo-cortical system in the golden hamster: shrinkage in dorsal lateral geniculate nucleus and area 17 and the effects on relay cell size and number. Trevelyan AJ, et al. **Vis Neurosci** 1995 Sep-Oct;12(5):971–83

Effects of eliminating retinal Y cell input on center-surround interactions in the dorsal lateral geniculate nucleus of the cat. Wang C, et al. **Vis Neurosci** 1996 Nov-Dec; 13(6):1089–97

Quantitative analyses of synaptic contacts of interneurons in the dorsal lateral geniculate nucleus of the squirrel monkey. Wilson JR, et al. **Vis Neurosci** 1996 Nov-Dec;13(6):1129–42

Very short-term visual memory via reverberation: a role for the cortico-thalamic excitatory circuit in temporal filling-in during blinks and saccades? Billock VA. **Vision Res** 1997 Apr;37(7):949–53

An electrophysiological metric of activity within the ON- and OFF-pathways in humans. Roveri L, et al. **Vision Res** 1997 Mar;37(6):669–74

[The pupil and retrogeniculate visual pathway. Overview] Wilhelm H. **Ophthalmologe** 1996 Aug;93(4):319–24 (24 ref.) (Eng. Abstr.) **(Ger)**

[Ability of cat visual system neurons to assess the spatial brightness gradient] Podvigin NF, et al. **Dokl Akad Nauk** 1997 Feb;352(4):557–9 **(Rus)**

PHYSIOPATHOLOGY

Cerebral correlates of anticipated fear: a PET study of specific phobia. Wik G, et al. **Int J Neurosci** 1996 Nov; 87(3-4):267–76

Developmental dyslexia: passive visual stimulation provides no evidence for a magnocellular processing defect. Johannes S, et al. **Neuropsychologia** 1996 Nov; 34(11):1123–7

Visual, somatosensory, auditory and nociceptive modality properties in the feline suprageniculate nucleus. Benedek G, et al. **Neuroscience** 1997 May;78(1):179–89

Distinct early and late subcomponents of the photic blink reflex: response characteristics in patients with retrogeniculate lesions. Hackley SA, et al. **Psychophysiology** 1996 May;33(3):239–51

[The effect of lesions of different parts of the optic thalamus on the nature of the bioelectrical activity of the human brain] Lukashevich IP, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):866–74 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Bifurcated projections of retinal ganglion cells bilaterally innervate the lateral geniculate nuclei in the cat. Dong K, et al. **Brain Res** 1995 Dec 12;703(1-2):231–6

Relative numbers of cortical and brainstem inputs to the lateral geniculate nucleus. Erişir A, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1517–20

Soma and axon diameter distributions and central projections of ferret retinal ganglion cells. Fitzgibbon T, et al. **Vis Neurosci** 1996 Jul-Aug;13(4):773–86

GENICULATE GANGLION

Meningiomas intrinsic to the geniculate ganglion. Luetje CM, et al. **Am J Otol** 1997 May;18(3):393–7

Hemangioma of the temporal bone in a patient presumed to have Ménière's syndrome. Burton L, et al. **South Med J** 1997 Jul;90(7):736–9

[Cavernous hemangioma of the geniculate ganglion. Value of otoneurosurgical collaboration] Collange S, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(5):385–7 (Eng. Abstr.) **(Fre)**

ANATOMY & HISTOLOGY

Correlated size variations in human visual cortex, lateral geniculate nucleus, and optic tract. Andrews TJ, et al. **J Neurosci** 1997 Apr 15;17(8):2859–68

PHYSIOLOGY

Optical recording of neural signals evoked by greater superficial petrosal nerve stimulation in rat. Yanaura M, et al. **Comp Biochem Physiol A Physiol** 1997 Jun; 117(2):183–90

Neural activity in the medial geniculate nucleus during auditory trace conditioning. O'Connor KN, et al. **Exp Brain Res** 1997 Mar;113(3):534–56

Neuro-ophthalmology of the pregeniculate afferent visual system. Developments in 1996 (Part II). Balcer LJ, et al. **J Neuroophthalmol** 1997 Jun;17(2):127–42 (217 ref.)

Neurons in the cat pretectum that project to the dorsal lateral geniculate nucleus are activated during saccades. Schmidt M. **J Neurophysiol** 1996 Nov;76(5):2907–18

Expression of the Fos protein reveals functional subdivisions of the avian ventral lateral geniculate nucleus. Hossokawa NM, et al. **Neurosci Lett** 1996 Oct 25;218(1):53–6

PHYSIOPATHOLOGY

Selective damage to either the "M" or "P" cell pathway in human retinal disease: implications for visual processing. Wolf JE, et al. **Eur J Ophthalmol** 1996 Apr-Jun;6(2):208–14

ULTRASTRUCTURE

Transient features of tachykinin peptide innervation of the dorsal lateral geniculate nucleus of the rabbit during postnatal development. Parnavelas JG, et al. **J Comp Neurol** 1997 Apr 14;380(3):310–8

GENITAL DISEASES, FEMALE

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 1. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 1:1–119

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 2. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 2:1–103

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 3. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 3:1–118

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 4. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 4:1–103

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 5. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 5:1–96

Proceedings of the VIth Baltic Conference on Obstetrics and Gynecology. Malmö, Sweden, May 25–27, 1995. **Acta Obstet Gynecol Scand Suppl** 1997;164:1–136

Anogenital warts in children. Siegfried EC, et al. **Adv Dermatol** 1997;12:141–66; discussion 167

Changes in strategies for human papillomavirus genital disease [editorial; comment] Apgar BS. **Am Fam Physician** 1997 Apr;55(5):1545–6, 1548. Comment on: Am Fam Physician 1997 Apr;55(5):1813–6.

Ascending group B streptococcal genital infection in the rabbit model. McDuffie RS Jr, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):402–5

Prevention of infection in obstetrical and gynaecological ultrasound practice [editorial] Garland SM, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):392–5

Anogenital warts. von Krogh G, et al. **Clin Dermatol** 1997 May-Jun;15(3):355–68 (92 ref.)

Geriatric gynecologic care of minorities. Haynes MO. **Clin Obstet Gynecol** 1996 Dec;39(4):946–58 (31 ref.)

Pediatric & adolescent gynecology. Pokorny S. **Compr Ther** 1997 May;23(5):337–44 (12 ref.)

Proceedings of the 11th European Association of Gynaecologists and Obstetricians Congress. Budapest, Hungary, 19–21 June 1996. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):103–227

Society for Gynecologic Investigation 43rd annual meeting. Philadelphia, Pennsylvania, March 20–23, 1996. Abstracts. **J Soc Gynecol Investig** 1996 Mar-Apr;3(2 Suppl):1A–402A

Society for Gynecologic Investigation 44th annual meeting. San Diego, California, March 19–22, 1997. Abstracts. **J Soc Gynecol Investig** 1997 Jan-Feb;4(1 Suppl):79A–290A

Reproductive health literature watch. **J Womens Health** 1997 Apr;6(2):239–52

Clinical manifestations and natural history of genital human papillomavirus infections. Campion MJ, et al. **Obstet Gynecol Clin North Am** 1996 Dec;23(4):783–809 (63 ref.)

[Use of natural medicines in women referred to specialists (see comments)] Kristoffersen K, et al. **Ugeskr Laeger** 1997 Jan 13;159(3):294–6 (Eng. Abstr.). Comment in: Ugeskr Laeger 1997 Apr 7;159(15):2239–40. **(Dan)**

[51st Congress of the German Society for Gynecology and Obstetrics. Dresden, 1–5 October 1996. Abstracts] **Arch Gynecol Obstet** 1996;258 Suppl 1:S1–239 **(Ger)**

[Female Medicine in the Elderly] Sugawa T. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):4–6 (7 ref.) **(Jpn)**

[The 48th Congress of the Japan Society of Obstetrics and Gynecology, Yokohama City, Japan. April 6-9, 1996. Abstracts] **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb; 48 Suppl:S1–521 **(Jpn)**

BLOOD

Clinical evaluation of the Byk LIA-mat CA125 II assay: discussion of a reference value. Bonfrer JM, et al. **Clin Chem** 1997 Mar;43(3):491–7

Use of a second-generation CA125 assay in gynecologic patients. Hornstein MD, et al. **Gynecol Obstet Invest** 1996; 42(3):196–200

CHEMICALLY INDUCED

Self-reported discomfort associated with use of different nonoxynol-9 spermicides [letter] Feldblum PJ. **Genitourin Med** 1996 Dec;72(6):451–2

Exposure to a xenoestrogen before birth: the diethylstilbestrol experience. Palmlund I. **J Psychosom Obstet Gynaecol** 1996

Jun;17(2):71–84 (144 ref.)

COMPLICATIONS

Pathology of female infertility. Honoré LH.
Curr Opin Obstet Gynecol 1997 Feb;9(1):37–43 (77 ref.)

Gynaecological and obstetric disorders in coeliac disease: frequent clinical onset during pregnancy or the puerperium. Smecuol E, et al. **Eur J Gastroenterol Hepatol** 1996 Jan; 8(1):63–89

Chronic pelvic pain in women--gastroenterological, gynaecological or psychological? Kamm MA.
Int J Colorectal Dis 1997;12(2):57–62 (59 ref.)

Is the fertile period reduced in patients with inflammatory bowel disease? Wu JJ, et al. **Ir J Med Sci** 1996 Jan–Mar; 165(1):35–6

Chronic pelvic pain and gynecological symptoms in women with irritable bowel syndrome. Walker EA, et al.
J Psychosom Obstet Gynaecol 1996 Mar;17(1):39–46

Paediatric HIV infection [letter; comment] Joshi VV.
Lancet 1996 Nov 30;348(9040):1527. Comment on: Lancet 1996 Sep 28;348(9031):837–8. Comment on: Lancet 1996 Sep 28;348(9031):863–8.

Gastrointestinal tract involvement by gynecologic diseases. Szucs RA, et al. **Radiographics** 1996 Nov;16(6):1251–70; quiz 1461–2

Venous thromboembolic disease in obstetrics and gynaecology: the Scottish experience. Macklon NS, et al. **Scott Med J** 1996 Jun;41(3):83–6

The evaluation of infection and pulmonary maturity in women with premature rupture of the membranes. Beazley D, et al. **Semin Perinatol** 1996 Oct;20(5):409–17 (83 ref.)

Definitions of genital ulcer disease and variation in risk for prevalent human immunodeficiency virus infection. Rompalo AM, et al. **Sex Transm Dis** 1997 Aug;24(7):436–42

[Genital bilharziasis and female infertility. Review of the literature and three case reports] Morice P, et al.
Contracept Fertil Sex 1996 Jan;24(1):56–61 (25 ref.) (Eng. Abstr.) **(Fre)**

[Combination of appendicitis with gynecologic diseases] Makhovskiĭ VZ, et al. **Khirurgiia (Mosk)** 1997;(6):29–32 (Eng. Abstr.) **(Rus)**

[Concurrent systemic pathology in gynecologic patients with toxoplasmic infection] Kolesnikova-Tartynskikh LA.
Klin Med (Mosk) 1997;75(2):45–7 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Proposed guidelines for primary screening instruments for gynecologic cytology. Developed by the Intersociety Working Group for Cytology Technologies. **Acta Cytol** 1997 May–Jun;41(3):924–33; discussion 934

Genital viral infections. Studies on human papillomavirus and Epstein-Barr virus. Voog E.
Acta Derm Venereol Suppl (Stockh) 1996;198:1–55 (232 ref.)

Reliability of diagnostic tests. Gjørup T.
Acta Obstet Gynecol Scand Suppl 1997;166:9–14

Is screening for genital infections in pregnancy necessary? Stray-Pedersen B. **Acta Obstet Gynecol Scand Suppl** 1997; 164:116–20

Urine reagent strips for diagnosis of schistosomiasis haematobium in women of fertile age. Gundersen SG, et al. **Acta Trop** 1996 Dec 30;62(4):281–7

Schistosomiasis in women: manifestations in the upper reproductive tract. Helling-Giese G, et al. **Acta Trop** 1996 Dec 30;62(4):225–38 (60 ref.)

Female genital schistosomiasis (FGS): relationship between gynecological and histopathological findings.
Helling-Giese G, et al. **Acta Trop** 1996 Dec 30;62(4):257–67

Female genital schistosomiasis due to Schistosoma haematobium. Clinical and parasitological findings in women in rural Malawi. Kjetland EF, et al. **Acta Trop** 1996 Dec 30;62(4):239–55

Diagnosis of female genital schistosomiasis by indirect disease markers: determination of eosinophil cationic protein, neopterin and IgA in vaginal fluid and swab eluates. Poggensee G, et al. **Acta Trop** 1996 Dec 30;62(4):269–80

Reversibility of lower reproductive tract abnormalities in women with Schistosoma haematobium infection after treatment with praziquantel--an interim report. Richter J, et al. **Acta Trop** 1996 Dec 30;62(4):289–301

Multishot echoplanar MR imaging of the female pelvis: comparison with fast spin-echo MR imaging in an initial clinical trial. Niitsu M, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):651–5

Diagnosis of human papillomavirus genital tract infection. Trofatter KF Jr. **Am J Med** 1997 May 5;102(5A):21–7 (25 ref.)

Diagnostic problems in a case with mucometrocolpos, polydactyly, congenital heart disease, and skeletal dysplasia. Yapar EG, et al. **Am J Med Genet** 1996 Dec 18;66(3):343–6

The role of laparoscopy in chronic and recurrent abdominal pain. Miller K, et al. **Am J Surg** 1996 Oct;172(4):353–6; discussion 356–7

Some dilemmas in managing gynaecological infections [editorial; comment] [see comments] Owen P.
Br J Gen Pract 1996 Jul;46(408):392–3. Comment on: Br J Gen Pract 1996 Jul;46(408):415–8(. Comment in: Br J Gen Pract 1996 Nov;46(412):687–8.

Simultaneous combined ultrasound and gynaecological examination for a more in depth clinical diagnosis. A personal practice. Onnis A, et al.
Clin Exp Obstet Gynecol 1996;23(3):123–6

Managed care in benign gynecology. Montz FJ.
Curr Opin Obstet Gynecol 1997 Aug;9(4):267–9 (15 ref.)

Genital ulcer infections in the female patient and the vaginitides. Fiumara NJ. **Dermatol Clin** 1997 Apr; 15(2):233–45 (10 ref.)

Obstetric and gynecologic emergencies. Nadel E, et al.
Emerg Med Clin North Am 1997 May;15(2):389–97 (49 ref.)

Not so bad after all..., Women's experiences of pelvic examinations. Larsen M, et al. **Fam Pract** 1997 Apr; 14(2):148–52

Complications of laparoscopy--operative and diagnostic [see comments] Bateman BG, et al. **Fertil Steril** 1996 Jul; 66(1):30–5. Comment in: Fertil Steril 1996 Dec;66(6):1045–6.

Verres needle as an auxiliary instrument for mobilization of fallopian tubes and ovaries in diagnostic microlaparoscopy. Srisombut C, et al. **Int J Gynaecol Obstet** 1997 Aug; 58(2):253–4

Comparison of manual Amplicor PCR, Cobas Amplicor PCR, and LCx assays for detection of Chlamydia trachomatis infection in women by using urine specimens. Pasternack R, et al. **J Clin Microbiol** 1997 Feb;35(2):402–5

The relationship between abdominal pain regions and specific diseases: an epidemiologic approach to clinical practice. Yamamoto W, et al. **J Epidemiol** 1997 Mar;7(1):27–32

Comparison of clinical diagnosis and standard laboratory and molecular methods for the diagnosis of genital ulcer disease in Lesotho: association with human immunodeficiency virus infection. Morse SA, et al. **J Infect Dis** 1997 Mar; 175(3):583–9

Right-sided low inguinal pain in young women [letter; comment] Bhal PS, et al. **J R Coll Surg Edinb** 1997 Jun; 42(3):204–5. Comment on: J R Coll Surg Edinb 1996 Apr;41(2):93–4.

False positive malignant peritoneal cytology and psammoma bodies in benign gynecologic disease. Fanning J, et al.
J Reprod Med 1996 Jul;41(7):504–8

Caution with post-treatment test-of-cure for genital Chlamydia [letter] MacEachern KA, et al. **Med J Aust** 1997 Aug 4;167(3):171–2

Pediatric genital exam. Brown MS. **Nurse Pract** 1997 Jul; 22(7):160

Genital HPV infections in children and adolescents. Moscicki AB. **Obstet Gynecol Clin North Am** 1996 Sep;23(3):675–97 (84 ref.)

Masses simulating gynecologic diseases at CT and MR imaging. Foshager MC, et al. **Radiographics** 1996 Sep; 16(5):1085–99 (10 ref.)

Imaging of the pediatric female pelvis. States LJ, et al.
Semin Roentgenol 1996 Oct;31(4):312–29

[Chlamydia trachomatis infection in a nulliparous woman] Sulová A, et al. **Ceska Gynekol** 1997 Apr;62(2):82–3 **(Cze)**

[Genital erosive lichen planus] Vilmer C, et al.
Ann Dermatol Venereol 1996;123(6–7):405–13 (70 ref.) **(Fre)**

[Diagnostic laparoscopy in persistent and chronic abdominal pain] Renteria SC, et al. **Arch Gynecol Obstet** 1996;259 Suppl 1:S47–53 **(Fre)**

[Genital tracts] Martin B. **J Radiol** 1997 Mar;78(3 Suppl):30–5 **(Fre)**

[Lower abdominal pain. Rheumatologic-orthopedic aspects] Stucki G. **Arch Gynecol Obstet** 1996;259 Suppl 1:S61–5 **(Ger)**

[Organic and non-organic lower abdominal pain. Chronic lower abdominal pain in the women--problem assessment in general practice] Studer-Schaer A.
Arch Gynecol Obstet 1996;259 Suppl 1:S43–6 **(Ger)**

[Gynecologic origin of acute abdomen in childhood] Schmitz-Stolbrink A. **Radiologe** 1997 Jun;37(6):459–63 (27 ref.) (Eng. Abstr.) **(Ger)**

[Diagnostic laparoscopy with mini-optics--initial experiences] Römer T, et al. **Zentralbl Gynakol** 1996; 118(9):505–7 (Eng. Abstr.) **(Ger)**

[Analysis of the validity of vaginal-cervical cytologic examination in 162 pre- and post-menopausal patients] Martelli M, et al. **Minerva Ginecol** 1996 Jun;48(6):235–8 (Eng. Abstr.) **(Ita)**

[Applicability of the dual interval echo train (DIET) method for female pelvic diseases] Kuwatsuru R, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1996 Aug; 56(9):644–8 (Eng. Abstr.) **(Jpn)**

[Diagnosis of obstetrical-gynecological infectious diseases using PCR] Fujita Y, et al.
Nippon Sanka Fujinka Gakkai Zasshi 1996 Aug; 48(8):769–80 (29 ref.) **(Jpn)**

[Laparoscopy in the differential diagnosis and treatment of acute appendicitis and acute gynecological diseases] Kulik IaP, et al. **Vestn Khir Im I I Grek** 1996;155(3):31–3 (Eng. Abstr.) **(Rus)**

[The national program for the early detection and treatment of premalignant and malignant diseases of the lower genital system in women] Stanimirović B, et al.
Srp Arh Celok Lek 1997 May–Jun;125(5–6):181–4 (Eng. Abstr.) **(Scc)**

DRUG THERAPY

Intralesional fluorouracil/epinephrine injectable gel for treatment of condylomata acuminata. A phase 3 clinical study. Swinehart JM, et al. **Arch Dermatol** 1997 Jan; 133(1):67–73

Gynaecological aspects of the levonorgestrel-releasing intrauterine system [see comments] Sturridge F, et al.
Br J Obstet Gynaecol 1997 Mar;104(3):285–9 (36 ref.). Comment in: Br J Obstet Gynaecol 1997 Mar;104(3):viii.

A multicenter study comparing intravenous meropenem with clindamycin plus gentamicin for the treatment of acute gynecologic and obstetric pelvic infections in hospitalized women. Hemsell DL, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S222–30

Pharmacology of the endocrine pancreas, adrenal cortex, and female reproductive organ. Huber MA, et al.
Dent Clin North Am 1996 Jul;40(3):753–77 (118 ref.)

Antibiotic selection in obstetric patients. Duff P.
Infect Dis Clin North Am 1997 Mar;11(1):1–12 (42 ref.)

ACOG criteria set. Ambulatory care criteria set: hypoestrogenism. Number 22, April 1997. Committee on Quality Assessment. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1997 May; 57(2):231–2

Effects of doxycycline and antiinflammatory agents on experimentally induced chlamydial upper genital tract infection in female macaques. Patton DL, et al.
J Infect Dis 1997 Mar;175(3):648–54

Efficacy and safety of azithromycin versus lymecyline in the treatment of genital chlamydial infections in women. Brihmer C, et al. **Scand J Infect Dis** 1996;28(5):451–4

[Treatment of pain in estrogen deficiency] Birkhäuser M.
Arch Gynecol Obstet 1996;259 Suppl 1:S74–9 **(Ger)**

[Evaluation of bone loss in patient treated with Gn-Rh analogs] Cassese E, et al. **Minerva Ginecol** 1997 Jun; 49(6):255–9 (Eng. Abstr.) **(Ita)**

[Symptomatic efficacy of clotrimazole combined with surgery in the treatment of recurring anal and genital condylomatosis in seropositive and AIDS patients] Erenbourg L, et al. **Minerva Med** 1996 Sep;87(9):433–5 (Eng. Abstr.) **(Ita)**

[Clinical study of tazobactam/piperacillin in obstetrics and gynecological infections] Chimura T, et al.
Jpn J Antibiot 1996 Aug;49(8):808–12 (Eng. Abstr.) **(Jpn)**

ECONOMICS

Comparison of 1997 Medicare relative value units for gender-specific procedures: is Adam still worth more than Eve? Goff BA, et al. **Gynecol Oncol** 1997 Aug;66(2):313–9

EPIDEMIOLOGY

Genital Chlamydia trachomatis infections in primary care [see comments] Ross JD, et al. **BMJ** 1996 Nov 9; 313(7066):1192–3. Comment in: BMJ 1996 Nov 9;313(7066):1160–1. Comment in: BMJ 1997 Feb 15;314(7079):516–7.

How prevalent is chlamydial infection? [letter; comment] Sproule D, et al. **Can Med Assoc J** 1996 Nov 15; 155(10):1388–9. Comment on: Can Med Assoc J 1996 Jun 1;154(11):1631–44.

Genital Chlamydia trachomatis infection in women in a Nigerian hospital [letter] Amin JD, et al.
Genitourin Med 1997 Apr;73(2):146–7

Pattern of sexually transmitted diseases among pregnant women in Burkina Faso, west Africa: potential for a clinical management based on simple approaches. Meda N, et al.
Genitourin Med 1997 Jun;73(3):188–93

Undetected gynaecological disorders in women with renal disease. Cochrane R, et al. **Hum Reprod** 1997 Apr; 12(4):667–70

Gynaecological correlates of hysterectomy in Danish women. Settnes A, et al. **Int J Epidemiol** 1997 Apr; 26(2):364–70

The epidemiology of notified genital Chlamydia trachomatis infection in Victoria, Australia: a survey of diagnosing providers. Thompson SC, et al. **Int J STD AIDS** 1997 Jun; 8(6):382–7

The epidemiology of genitourinary fistulae in Kumasi, Ghana, 1977–1992. Danso KA, et al.
Int Urogynecol J Pelvic Floor Dysfunct 1996;7(3):117–20

From the Centers for Disease Control and Prevention. Chlamydia trachomatis genital infections--United States, 1995. **JAMA** 1997 Mar 26;277(12):952–3

Gynecologic evaluation of the first female soldiers enrolled in the Gulf War Comprehensive Clinical Evaluation Program at Tripler Army Medical Center. Wittich AC.
Mil Med 1996 Nov;161(11):635–7

Chlamydia trachomatis genital infections--United States, 1995. **MMWR Morb Mortal Wkly Rep** 1997 Mar 7; 46(9):193–8

Levels and determinants of gynecological morbidity in a district of south India. Bhatia JC, et al.
Stud Fam Plann 1997 Jun;28(2):95–103

Epidemiologic overview of common gynecologic disorders and first-trimester complications among active-duty women. Hawley-Bowland C. **Womens Health Issues** 1996 Nov-Dec;6(6):353–5

[Epidemiological studies of patients with genital chlamydiosis in Pleven District] Stoĭkov S, et al.
Akush Ginekol (Sofiia) 1996;35(4):14–7 (Eng. Abstr.) **(Bul)**

[Epidemiologic analysis of genital diseases associated to papillomavirus] Rios AC, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):333–6 (Eng. Abstr.) **(Por)**

[Gynecological complications in HIV-positive women] del

Amo J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep; 14(7):444–6 (18 ref.) **(Spa)**

ETHNOLOGY

Ethnic differences in risk factors associated with genital human papillomavirus infections. Kenney JW. **J Adv Nurs** 1996 Jun;23(6):1221–7

ETIOLOGY

Genital fistulas caused by diverticular disease of the sigmoid colon. Tancer ML, et al. **Am J Obstet Gynecol** 1996 May; 174(5):1547–50

How can we avoid adhesions after laparoscopic surgery? Tulandi T. **Curr Opin Obstet Gynecol** 1997 Aug;9(4):239–43 (37 ref.)

Genital ulcer infections in the female patient and the vaginitides. Fiumara NJ. **Dermatol Clin** 1997 Apr; 15(2):233–45 (10 ref.)

Comparison of the ultrasonic scalpel to CO2 laser and electrosurgery in terms of tissue injury and adhesion formation in a rabbit model. Schemmel M, et al. **Fertil Steril** 1997 Feb;67(2):382–6

Lymphoedema of the genitalia secondary to skin tuberculosis: report of three cases [letter] Ramesh V, et al. **Genitourin Med** 1997 Jun;73(3):226–7

Sexual behavior and partner characteristics are the predominant risk factors for genital human papillomavirus infection in young women. Burk RD, et al. **J Infect Dis** 1996 Oct;174(4):679–89

Effect of trauma and pelvic fracture on female genitourinary, sexual, and reproductive function. Copeland CE, et al. **J Orthop Trauma** 1997 Feb–Mar;11(2):73–81

Human immunodeficiency virus infection in women. Anastos K, et al. **Med Clin North Am** 1997 Mar;81(2):533–53 (100 ref.)

Risk factors for genital ulcerations in Kenyan sex workers. The role of human immunodeficiency virus type 1 infection. Kaul R, et al. **Sex Transm Dis** 1997 Aug; 24(7):387–92

GENETICS

Detection of clonality and genetic alterations in endometrial pipelle biopsy and its surgical specimen counterpart. Esteller M, et al. **Lab Invest** 1997 Jan;76(1):109–16

IMMUNOLOGY

The human leucocyte antigen (HLA) DR expression and the distribution of T-lymphocytes in the fimbriae of the normal fallopian tube and during pelvic adhesion disease. Edelstam GA, et al. **Am J Reprod Immunol** 1996 May;35(5):471–6

Reactivation of chlamydial genital tract infection in mice. Cotter TW, et al. **Infect Immun** 1997 Jun;65(6):2067–73

Mouse strain-dependent variation in the course and outcome of chlamydial genital tract infection is associated with differences in host response. Darville T, et al. **Infect Immun** 1997 Aug;65(8):3065–73

Genital tract infection with Chlamydia trachomatis fails to induce protective immunity in gamma interferon receptor-deficient mice despite a strong local immunoglobulin A response. Johansson M, et al. **Infect Immun** 1997 Mar;65(3):1032–44

Chlamydia trachomatis genital tract infection of antibody-deficient gene knockout mice. Su H, et al. **Infect Immun** 1997 Jun;65(6):1993–9

MICROBIOLOGY

Patterns of resistance in organisms causing gynecologic infections. Tumah H, et al. **Adv Exp Med Biol** 1995; 390:169–75

A problem of genital ulceration. Golledge CL. **Aust Fam Physician** 1996 Nov;25(11):1783

Prospective analysis of genital ulcer disease in Brooklyn, New York. Dillon SM, et al. **Clin Infect Dis** 1997 May; 24(5):945–50

A multicenter study comparing intravenous meropenem with clindamycin plus gentamicin for the treatment of acute gynecologic and obstetric pelvic infections in hospitalized women. Hemsell DL, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S222–30

Isolation of presumptive Streptobacillus moniliformis from abscesses associated with the female genital tract. Pins MR, et al. **Clin Infect Dis** 1996 Mar;22(3):471–6

Silent upper genital tract chlamydial infection and disease in women. Tait IA, et al. **Int J STD AIDS** 1997 May; 8(5):329–31

Pathogenic potential of Gardnerella vaginalis on the female urogenital system. Chaudhuri M, et al. **J Indian Med Assoc** 1996 Jan;94(1):11–3, 16

[The appearance of ciprofloxacin resistance in the microbial strains isolated from gynecologic patients] Shopova E. **Akush Ginekol (Sofiia)** 1997;36(1):14–6 (Eng. Abstr.) **(Bul)**

[Media for transportation of specimens from gynecologic infections] Ondrovčík P, et al. **Epidemiol Mikrobiol Imunol** 1997 May;46(2):55–7 (Eng. Abstr.) **(Cze)**

[Detection of Chlamydia trachomatis, Mycoplasma hominis and Ureaplasma urealiticum in diseases of the male and female reproductive system by using polymerase chain reaction] Zhdanov AV, et al. **Biull Eksp Biol Med** 1996 May;121(5):547–50 **(Rus)**

MORTALITY

[Prognosis in gynecologic diseases] Kremling H. **Versicherungsmedizin** 1996 Feb 1;48(1):25–7 (29 ref.) (Eng. Abstr.) **(Ger)**

NURSING

Gynaecological nursing. McQueen A. **J Adv Nurs** 1997 Apr; 25(4):767–74

PARASITOLOGY

Amoebiasis of the female genital tract: a case report. Nopdonrattakoon L. **J Obstet Gynaecol Res** 1996 Jun; 22(3):235–8

[Bilharziasis and genital pathology] Tordjeman N, et al. **Contracept Fertil Sex** 1997 Jan;25(1):15–20 (35 ref.) **(Fre)**

PATHOLOGY

Female genital schistosomiasis (FGS): relationship between gynecological and histopathological findings. Helling-Giese G, et al. **Acta Trop** 1996 Dec 30;62(4):257–67

Schistosomiasis in women: manifestations in the upper reproductive tract. Helling-Giese G, et al. **Acta Trop** 1996 Dec 30;62(4):225–38 (60 ref.)

Female genital schistosomiasis due to Schistosoma haematobium. Clinical and parasitological findings in women in rural Malawi. Kjetland EF, et al. **Acta Trop** 1996 Dec 30;62(4):239–55

External anogenital lesions in organ transplant recipients. A clinicopathologic and virologic assessment [see comments] Euvrard S, et al. **Arch Dermatol** 1997 Feb;133(2):175–8. Comment in: Arch Dermatol 1997 Feb;133(2):221–3.

Pathology of female infertility. Honoré LH. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):37–43 (77 ref.)

Social support and adherence behavior among women with abnormal Pap smears. Crane LA. **J Cancer Educ** 1996 Fall; 11(3):164–73

Castleman's disease of broad ligament. Mondal AK, et al. **J Indian Med Assoc** 1996 Dec;94(12):453–4

False positive malignant peritoneal cytology and psammoma bodies in benign gynecologic disease. Fanning J, et al. **J Reprod Med** 1996 Jul;41(7):504–8

Detection of clonality and genetic alterations in endometrial pipelle biopsy and its surgical specimen counterpart. Esteller M, et al. **Lab Invest** 1997 Jan;76(1):109–16

Frequency and histogenesis of pelvic retroperitoneal lymph node inclusions of the female genital tract. An immunohistochemical study of 34 cases. Horn LC, et al. **Pathol Res Pract** 1995 Oct;191(10):991–6

Differentiation between recurrent tumor and benign conditions after treatment of gynecologic pelvic carcinoma: value of dynamic contrast-enhanced subtraction MR imaging. Kinkel K, et al. **Radiology** 1997 Jul;204(1):55–63

[Special issue on gynecologic pathology (editorial)] Guettier C. **Ann Pathol** 1996 Nov;16(5):313–4 **(Fre)**

[Electron microscopic and immunomorphologic study of the placenta in genital mycoplasmosis] Zubzhitskaia LB, et al. **Arkh Patol** 1997 Mar–Apr;59(2):17–22 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Uroflowmetry in women with urinary incontinence and pelvic organ prolapse. Coates KW, et al. **Br J Urol** 1997 Aug;80(2):217–21

PREVENTION & CONTROL

Controlling genital chlamydial infection [editorial; comment] [see comments] Johnson AM, et al. **BMJ** 1996 Nov 9; 313(7066):1160–1. Comment on: BMJ 1996 Nov 9;313(7066):1186–9. Comment on: BMJ 1996 Nov 9;313(7066):1192–3. Comment on: BMJ 1996 Nov 9;313(7066):1193–4. Comment in: BMJ 1997 Feb 15;314(7079):516.

Controlling genital chlamydial infection. Integrated approach is needed [letter; comment] Stokes T, et al. **BMJ** 1997 Feb 15;314(7079):516–7. Comment on: BMJ 1996 Nov 9;313(7066):1192–3.

How can we avoid adhesions after laparoscopic surgery? Tulandi T. **Curr Opin Obstet Gynecol** 1997 Aug;9(4):239–43 (37 ref.)

Immunization with an acellular vaccine consisting of the outer membrane complex of Chlamydia trachomatis induces protection against a genital challenge. Pal S, et al. **Infect Immun** 1997 Aug;65(8):3361–9

Papillomavirus-like particles for serology and vaccine development. Kirnbauer R. **Intervirology** 1996; 39(1–2):54–61 (82 ref.)

Genital human papillomavirus infections: knowledge, perception of risk, and actual risk in a nonclinic population of young women. Ramirez JE, et al. **J Womens Health** 1997 Feb;6(1):113–21

Monoclonal immunoglobulin A antibody to the major outer membrane protein of the Chlamydia trachomatis mouse pneumonitis biovar protects mice against a chlamydial genital challenge. Pal S, et al. **Vaccine** 1997 Apr; 15(5):575–82

Reproductive tract infections--and associated difficulties. Kumar R, et al. **World Health Forum** 1997;18(1):80–2

PSYCHOLOGY

[Summary report of psychosomatic workshops] Bitzer J. **Arch Gynecol Obstet** 1996;259 Suppl 1:S80–3 **(Ger)**

[Chronic lower abdominal pain in the woman. Between multidisciplinary cooperation and stable, ongoing physician-patient relations] Bitzer J. **Arch Gynecol Obstet** 1996;259 Suppl 1:S36–42 **(Ger)**

[Chronic non-organic pain. Psychiatric differential diagnoses and symptom-oriented, holistic treatment] Keel P. **Arch Gynecol Obstet** 1996;259 Suppl 1:S66–73 **(Ger)**

[The "problem patient" in gynecologic consultation. From the "difficult patient personality" to dysfunctional patient-physician relations] Bitzer J. **Geburtshilfe Frauenheilkd** 1996 Jul;56(7):M95–9 **(Ger)**

[Correlation between anxiety and pain in the first gynecological examination of children and adolescents] Bodden-Heidrich R, et al. **Geburtshilfe Frauenheilkd** 1996 Oct;56(10):M161–3 **(Ger)**

[Testing a screening strategy for identifying psychosomatic patients in gynecologic practice] Hörhold M, et al. **Psychother Psychosom Med Psychol** 1997 May;47(5):156–62 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

CT Imaging of acute right lower quadrant disease. Duran JC, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):411–6

Gastrointestinal tract involvement by gynecologic diseases. Szucs RA, et al. **Radiographics** 1996 Nov;16(6):1251–70; quiz 1461–2

REHABILITATION

[Physiotherapeutic proscribing in gynecological practice (a short guidebook)] Strugatskiĭ VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):42–6 contd **(Rus)**

[Physiotherapeutic prescribing in gynecological practice (a short guide)] Strugatskiĭ VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May–Jun; (3):50–3 contd **(Rus)**

[Physiotherapeutic prescribing in gynecological practice (a short guidebook)] Strugatskiĭ VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb; (1):38–40 concl **(Rus)**

[Physiotherapeutic prescribing in gynecological practice (a short guidebook)] Strugatskiĭ VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov–Dec; (6):47–51 contd **(Rus)**

[Physiotherapeutic prescribing in gynecological practice (a brief handbook)] Strugatskiĭ VM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):46–9 contd **(Rus)**

SURGERY

Critical uses of intraoperative gynecologic sonography. Reuter KL. **AJR Am J Roentgenol** 1997 Aug;169(2):541–6

Use of a subcutaneous closed drainage system and antibiotics in obese gynecologic patients. Gallup DC, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):358–61; discussion 362

Comparison of tropisetron, droperidol, and saline in the prevention of postoperative nausea and vomiting after gynecologic surgery. Purhonen S, et al. **Anesth Analg** 1997 Mar;84(3):662–7

Comparison of postoperative complications after Küstner and Pfannenstiel transverse suprapubic incisions. Vercellini P, et al. **Arch Gynecol Obstet** 1996;258(4):201–6

National trends in gynaecological endoscopic surgery. Molloy D, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb; 36(1):27–31

Hysterectomy and endometrial ablation in New South Wales, 1981 to 1994–1995. Yusuf F, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):210–6

Debate: 'post-operative urinary fistulae should be managed by gynaecologists in specialist centres'. Hilton P. **Br J Urol** 1997 Jul;80 Suppl 1:35–42 (9 ref.)

Laparoscopy in children. Sharp HT. **Clin Obstet Gynecol** 1997 Mar;40(1):210–8 (20 ref.)

Endoscopic surgery. **Curr Opin Obstet Gynecol** 1997 Aug; 9(4):B117–23

Surgical anatomy and dissection techniques for laparoscopic surgery. Kadar N. **Curr Opin Obstet Gynecol** 1996 Aug; 8(4):266–77 (9 ref.)

Endoscopic surgery [editorial] Magos A. **Curr Opin Obstet Gynecol** 1997 Aug;9(4):217–8 (6 ref.)

Randomized studies in endoscopic surgery--where is the proof? [see comments] Nagele F, et al. **Curr Opin Obstet Gynecol** 1996 Aug;8(4):281–9 (158 ref.) . Comment in: Curr Opin Obstet Gynecol 1996 Aug;8(4):243–5.

Premedication with controlled release diclofenac sodium reduces post-operative pain after minor gynaecological surgery. Bamber MJ, et al. **Eur J Anaesthesiol** 1997 Jul; 14(4):421–7

Complications of laparoscopy--operative and diagnostic [see comments] Bateman BG, et al. **Fertil Steril** 1996 Jul; 66(1):30–5. Comment in: Fertil Steril 1996 Dec;66(6):1045–6.

Comparison of 1997 Medicare relative value units for

gender-specific procedures: is Adam still worth more than Eve? Goff BA, et al. **Gynecol Oncol** 1997 Aug;66(2):313–9

Papillary endothelial hyperplasia of adnexal vasculature [letter; comment] Johnson JS, et al. **Histopathology** 1996 Nov;29(5):492. Comment on: Histopathology 1996 Feb;28(2):157–61.

Gynaecological correlates of hysterectomy in Danish women. Settnes A, et al. **Int J Epidemiol** 1997 Apr; 26(2):364–70

The use of mesh in gynecologic surgery. Iglesia CB, et al. **Int Urogynecol J Pelvic Floor Dysfunct** 1997;8(2):105–15 (76 ref.)

Ureteral injuries in obstetric and gynecologic procedures [editorial] Wang AC.
Int Urogynecol J Pelvic Floor Dysfunct 1997;8(2):59–60

Abstracts of the World Congress of Gynecologic Endoscopy. 24th annual meeting of the American Association of Gynecologic Laparoscopists, Orlando, Florida, November 8–12, 1995. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4 Suppl):S1–88

Abstracts of the International Congress of Gynecologic Endoscopy. 23rd annual meeting of the American Association of Gynecologic Laparoscopists, New York, New York, October 18–23, 1994.
J Am Assoc Gynecol Laparosc 1994 Aug;1(4 Pt 2):S1–54

Experience with laparoscopic hysterectomy. Hasson HM, et al. **J Am Assoc Gynecol Laparosc** 1993 Nov;1(1):1–11

Early outcomes of laparoscopic-assisted vaginal hysterectomy versus laparoscopic supracervical hysterectomy. Lalonde CJ, et al.
J Am Assoc Gynecol Laparosc 1996 Feb;3(2):251–6

Anterior abdominal wall adhesions after laparotomy or laparoscopy. Levrant SG, et al.
J Am Assoc Gynecol Laparosc 1997 May;4(3):353–6

Presidential address. The quality of our journey. Levy BS.
J Am Assoc Gynecol Laparosc 1996 Feb;3(2):201–4

The oceanic effect. Luciano AA.
J Am Assoc Gynecol Laparosc 1997 Feb;4(2):157–66

A new vaginal extractor for laparoscopic surgery [see comments] Spuhler SC, et al.
J Am Assoc Gynecol Laparosc 1994 Aug;1(4 Pt 1):401–4 . Comment in: J Am Assoc Gynecol Laparosc 1995 May;2(3):370–1.

What's new in gynecologic and obstetrical surgery. Lacey CG. **J Am Coll Surg** 1997 Feb;184(2):146–52

Pap smear of the vaginal cuff. Stevermer JJ, et al.
J Fam Pract 1997 Mar;44(3):250–2

5th French-speaking Congress on Coelo-Surgery. Deauville, France, 10–11 April 1997. Abstracts.
J Gynecol Obstet Biol Reprod (Paris) 1997;26 Suppl 1:7–34 **(Eng, Fre)**

Laparoscopic oophorectomy in children by a multiple-trocar technique [letter; comment] Pelosi MA 3rd, et al.
J Laparoendosc Surg 1996 Aug;6(4):275–7. Comment on: J Laparoendosc Surg 1996 Mar;6 Suppl 1:S–115.

Prolonged stays of OB/GYN patients in the surgical intensive care unit. A cost-benefit analysis. Abbas FM, et al.
J Reprod Med 1997 Mar;42(3):179–83

Laparoscopically assisted colpotomy with the Pelosi illuminator and Visiport trocar system. Pelosi MA, et al.
J Reprod Med 1996 Aug;41(8):548–54

A nationwide analysis of laparoscopic complications. Härkki-Sirén P, et al. **Obstet Gynecol** 1997 Jan;89(1):108–12

Tubal sterilization and long-term risk of hysterectomy: findings from the United States collaborative review of sterilization. The U.S. Collaborative Review of Sterilization Working Group. Hillis SD, et al.
Obstet Gynecol 1997 Apr;89(4):609–14

The risk of carbon monoxide poisoning after prolonged laparoscopic surgery [see comments] Nezhat C, et al.
Obstet Gynecol 1996 Nov;88(5):771–4. Comment in: Obstet Gynecol 1997 Feb;89(2):320.

Hysterectomy for benign gynecologic disorders: when and why? Crosignani PG, et al. **Postgrad Med** 1996 Dec; 100(6):133–40 (30 ref.)

Ultrasonography of the ureter during laparoscopic gynecological surgery. Helin-Martikainen HL, et al.
Ultrasound Obstet Gynecol 1997 Jun;9(6):414–8

Future endoscopic trends in gynecological oncology. Bruhat MA, et al. **Zentralbl Gynakol** 1996;118(2):49–52 (29 ref.)

[The use of cefotetan for the prevention of infectious postoperative complications in gynecology] Doganov N, et al. **Akush Ginekol (Sofiia)** 1997;36(1):11–3 (Eng. Abstr.) **(Bul)**

[The prevention of postoperative infectious complications in gynecological practice with mefoxin] Nachev A, et al.
Akush Ginekol (Sofiia) 1996;35(1–2):68–70 **(Bul)**

[Surgical pelvioscopy in gynecologic surgery] Nalbanski B.
Akush Ginekol (Sofiia) 1997;36(1):16–8 (Eng. Abstr.) **(Bul)**

[The use of dihydrocodeine for postoperative analgesia in gynecological operations] Traĭkova V, et al.
Akush Ginekol (Sofiia) 1996;35(1–2):24–6 (Eng. Abstr.) **(Bul)**

[Gynecologic laparoscopy with or without curare] Chassard D, et al. **Ann Fr Anesth Reanim** 1996;15(7):1013–7 (Eng. Abstr.) **(Fre)**

[Laparoscopic surgery without insufflation in gynecology] d'Ercole C, et al. **Contracept Fertil Sex** 1996 Oct; 24(10):723–6 (22 ref.) **(Fre)**

[Prevention of postoperative nausea and vomiting with single and repeat administration of ondansetron--review of the literature on different administration forms] Saur P, et al.
Anaesthesiol Reanim 1996;21(5):131–5 (30 ref.) (Eng. Abstr.) **(Ger)**

[Indications for 3 D laparoscopy in gynecology] Köster S, et al. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):431–3 (Eng. Abstr.) **(Ger)**

[Complications in 5,000 pelviscopies at the Kiel University Gynecologic Clinic] Mecke H, et al.
Geburtshilfe Frauenheilkd 1996 Sep;56(9):449–52 (Eng. Abstr.) **(Ger)**

[Patient education before ambulatory surgery] Rehborn M.
Geburtshilfe Frauenheilkd 1996 Jul;56(7):M100–1 **(Ger)**

[Effects of quality assurance measures on surgical gynecology treatment] Geraedts M, et al. **Gesundheitswesen** 1997 Apr; 59(4):267–70 (Eng. Abstr.) **(Ger)**

[Gynecological management of patients over 80 years old. Results of a prospective study] Köchli OR, et al.
Gynakol Geburtshilfliche Rundsch 1996;36(2):63–8 (Eng. Abstr.) **(Ger)**

[Necrotizing fasciitis of female genitals] Eckmann C, et al.
Zentralbl Chir 1996;121 Suppl:74 **(Ger)**

[Current Trends in Operative Endoscopy. Proceedings of the 6th International Symposium. Heidelberg, March 8–12, 1995] **Zentralbl Gynakol** 1996;118(2):49–119 **(Ger)**

[Laparoscopy in the day clinic--a prospective multicenter study for evaluating complications] Hennefründ J, et al.
Zentralbl Gynakol 1996;118(2):113–6 (Eng. Abstr.) **(Ger)**

[Minimal invasive surgery--future prospects] Knapstein PG, et al. **Zentralbl Gynakol** 1996;118(2):110–2 (Eng. Abstr.) **(Ger)**

[Aspects of peritoneal fascia closure after surgical laparoscopy] Lueken RP, et al. **Zentralbl Gynakol** 1996; 118(2):62–5 (Eng. Abstr.) **(Ger)**

[Micro-endoscopy, minimal access endoscopy--an overview of current status and future possibilities] Wallwiener D, et al. **Zentralbl Gynakol** 1996;118(2):83–6 (11 ref.) (Eng. Abstr.) **(Ger)**

[Laparoscopic surgery in gynecology. Surgical reform of mere luxury? (Physiologic and economic effects of laparoscopic surgery)] Hercz P. **Orv Hetil** 1997 Feb 2; 138(5):271–4 (31 ref.) (Eng. Abstr.) **(Hun)**

[Symptomatic efficacy of clotrimazole combined with surgery in the treatment of recurring anal and genital condylomatosis in seropositive and AIDS patients] Erenbourg L, et al. **Minerva Med** 1996 Sep;87(9):433–5 (Eng. Abstr.) **(Ita)**

[Long-term results of giant hernias treatment after obstetric and gynecologic surgeries] Deriugina MS.
Khirurgiia (Mosk) 1997;(6):62–3 (Eng. Abstr.) **(Rus)**

[Laparoscopy in the differential diagnosis and treatment of acute appendicitis and acute gynecological diseases] Kulik IaP, et al. **Vestn Khir Im I I Grek** 1996;155(3):31–3 (Eng. Abstr.) **(Rus)**

[Evaluation of a new suture material, polyglecaprone (25) in gynecology and obstetrics] Lara EG, et al.
Ginecol Obstet Mex 1996 Jan;64:40–2 (Eng. Abstr.) **(Spa)**

[Classification of operative laparoscopy] Treviño R, et al.
Ginecol Obstet Mex 1996 Jan;64:14–7 (Eng. Abstr.) **(Spa)**

[A survey of surgical complications. A praiseworthy initiative by the gynecologists] Räf L. **Lakartidningen** 1996 Oct 23; 93(43):3771–2 **(Swe)**

THERAPY

Management of labial adhesions [letter] Gillespie A.
Aust Fam Physician 1997 May;26(5):616–7

Local intralesional therapy with rhGM-CSF for a large genital ulcer in Behçet's disease [letter] Alli N, et al.
Br J Dermatol 1997 Apr;136(4):639–40

Natural origins of gynecologic treatment. Haefner HK, et al. **Compr Ther** 1997 Jul;23(7):455–66 (84 ref.)

Managed care in benign gynecology. Montz FJ.
Curr Opin Obstet Gynecol 1997 Aug;9(4):267–9 (15 ref.)

Obstetric and gynecologic emergencies. Nadel E, et al.
Emerg Med Clin North Am 1997 May;15(2):389–97 (49 ref.)

Audits of the treatment of genital warts: closing the feedback loop. Reynolds M, et al. **Int J STD AIDS** 1996 Aug–Sep; 7(5):347–52

Obstetrics and gynecology. DeCherney AH, et al. **JAMA** 1997 Jun 18;277(23):1878–9

The management of genital condylomas, intraepithelial neoplasia, and vulvodynia. Reid R.
Obstet Gynecol Clin North Am 1996 Dec;23(4):917–91 (136 ref.)

[Report of experiences in psychological consultation in a gynecologic clinic] Jurack JR. **Z Geburtshilfe Neonatol** 1996 Jul–Aug;200(4):144–50 (Eng. Abstr.) **(Ger)**

[Combination of beta-interferon and laser-CO2 therapy in female HPV genitalis] Facchini C, et al.
Minerva Ginecol 1996 Sep;48(9):345–9 (Eng. Abstr.) **(Ita)**

[The differentiated correction of the local immunity of the reproductive tract by using lysozyme and immunoglobulins in pregnant women with a genital infection] Dolgushin II, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug; (4):111–5 (Eng. Abstr.) **(Rus)**

[The national program for the early detection and treatment of premalignant and malignant diseases of the lower genital system in women] Stanimirović B, et al.
Srp Arh Celok Lek 1997 May–Jun;125(5–6):181–4 (Eng. Abstr.) **(Scc)**

ULTRASONOGRAPHY

Critical uses of intraoperative gynecologic sonography. Reuter KL. **AJR Am J Roentgenol** 1997 Aug;169(2):541–6

Transperineal sonography in children. Teele RL, et al.
AJR Am J Roentgenol 1997 May;168(5):1263–7

Correlation of findings on transvaginal sonography with serum CA 125 levels. Troiano RN, et al.
AJR Am J Roentgenol 1997 Jun;168(6):1587–90

Simultaneous combined ultrasound and gynaecological examination for a more in depth clinical diagnosis. A personal practice. Onnis A, et al.
Clin Exp Obstet Gynecol 1996;23(3):123–6

An audit of general practitioner referrals for pelvic ultrasound. McIlvenny S, et al. **Fam Pract** 1995 Dec; 12(4):438–42

ACOG Technical Bulletin. Gynecologic ultrasonography. Number 215--November 1995. **Int J Gynaecol Obstet** 1996 Mar;52(3):293–304

The contribution of pelvic ultrasonography to the diagnostic process in pediatric and adolescent gynecology. Arbel-DeRowe Y, et al. **J Pediatr Adolesc Gynecol** 1997 Feb;10(1):3–12 (50 ref.)

Confusion after visiting the radiology department. Devendra D, et al. **Lancet** 1997 Sep 13;350(9080):780

Benign pelvic masses: sonographic spectrum. Fried AM, et al. **Radiographics** 1996 Mar;16(2):321–34

Emergency obstetric and gynecologic ultrasound. Estroff JA.
Radiol Clin North Am 1997 Jul;35(4):921–57 (148 ref.)

Common imaging problems in the postmenopausal pelvis: the endometrial stripe, intrauterine fluid, and adnexal cyst. Kasales CJ, et al. **Semin Roentgenol** 1996 Oct;31(4):279–87

The routine use of ultrasound in the gynecological visit [editorial] Goldstein SR. **Ultrasound Obstet Gynecol** 1996 Dec;8(6):369–70

Report from the first Kenneth Gottesfeld-Charles Hohler Memorial Foundation conference on obstetric and gynecological ultrasound. Platt LD, et al.
Ultrasound Obstet Gynecol 1997 May;9(5):356–61

[Pelvic ultrasonography in the adolescent] Ardaens Y.
Contracept Fertil Sex 1996 Nov;24(11):811–5 (6 ref.) **(Fre)**

[Imaging methods, especially ultrasound in lower abdominal pain] Tercanli S. **Arch Gynecol Obstet** 1996;259 Suppl 1:S54–60 (23 ref.) **(Ger)**

URINE

Urine reagent strips for diagnosis of schistosomiasis haematobium in women of fertile age. Gundersen SG, et al. **Acta Trop** 1996 Dec 30;62(4):281–7

VETERINARY

[Infectious burdens of reproduction of female dogs] Wendt K, et al. **Tierarztl Prax** 1996 Feb;24(1):79–84 (Eng. Abstr.) **(Ger)**

VIROLOGY

Issues in the management of human papillomavirus genital disease [see comments] Verdon ME. **Am Fam Physician** 1997 Apr;55(5):1813–6, 1819, 1822 (34 ref.). Comment in: Am Fam Physician 1997 Apr;55(5):1545–6, 1548.

External anogenital lesions in organ transplant recipients. A clinicopathologic and virologic assessment [see comments] Euvrard S, et al. **Arch Dermatol** 1997 Feb;133(2):175–8. Comment in: Arch Dermatol 1997 Feb;133(2):221–3.

HIV infection presenting as chronic postpartum perineal sepsis. Dwyer PL, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):431–3

Differentiation of primary from nonprimary genital herpes infections by a herpes simplex virus-specific immunoglobulin G avidity assay. Hashido M, et al.
J Clin Microbiol 1997 Jul;35(7):1766–8

Presence of papillomavirus infections in genital lesions of women in Romania. Stoian M, et al. **Rom J Virol** 1995 Jan–Jun;46(1–2):43–50

Detection of human papillomavirus L1 protein in condylomata acuminata from various anatomical sites. Wools K, et al. **Sex Transm Dis** 1994 Mar–Apr;21(2):103–6

GENITAL DISEASES, MALE

Anogenital warts in children. Siegfried EC, et al.
Adv Dermatol 1997;12:141–66; discussion 167

Anogenital warts. von Krogh G, et al. **Clin Dermatol** 1997 May–Jun;15(3):355–68 (92 ref.)

VIth International Congress of Andrology, Salzburg, Austria, 25–29 May 1997. Abstracts. **Int J Androl** 1997 Apr; 20 Suppl 1:1–119

Urologic emergencies. Trauma injuries and conditions affecting the penis, scrotum, and testicles. Samm BJ, et al. **Postgrad Med** 1996 Oct;100(4):187–90, 193–4, 199–200 (7 ref.)

CHEMICALLY INDUCED

Exposure to a xenoestrogen before birth: the diethylstilbestrol experience. Palmlund I. **J Psychosom Obstet Gynaecol** 1996 Jun;17(2):71–84 (144 ref.)

[Genital ulcers from foscarnet: three cases (letter)] Luelmo J, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):318 **(Spa)**

COMPLICATIONS

Increased risk of infection with human immunodeficiency virus type 1 among uncircumcised men presenting with genital ulcer disease in Kenya. Tyndall MW, et al. **Clin Infect Dis** 1996 Sep;23(3):449–53

Anterior urethral diverticulum produced by Cowper's gland duct cyst. Shintaku I, et al. **Int J Urol** 1996 Sep;3(5):412–3

Genital pain associated with genital retraction: a case of Koro syndrome. Wilson S, et al. **J Pain Symptom Manage** 1997 Mar;13(3):176–8 (8 ref.)

["Inflammations of the male adnexa—disorders in fertility?" Report of the IV. Colloquium Andrologicum 15 February 1997 in Jena] Schreiber G, et al. **Hautarzt** 1997 Jul; 48(7):507–9 **(Ger)**

[Iatrogenic obstructive azoospermia] Bellorofonte C, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):359–62 (12 ref.) (Eng. Abstr.) **(Ita)**

[Seminal obstructions of the inflammatory origin] Mantovani F, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):347–52 (Eng. Abstr.) **(Ita)**

[Giant testicular tumor associated with scrotal gangrene: a case report] Hyouchi N, et al. **Hinyokika Kiyo** 1997 Mar; 43(3):237–40 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Genital viral infections. Studies on human papillomavirus and Epstein–Barr virus. Voog E. **Acta Derm Venereol Suppl (Stockh)** 1996;198:1–55 (232 ref.)

Diagnosis of human papillomavirus genital tract infection. Trofatter KF Jr. **Am J Med** 1997 May 5;102(5A):21–7 (25 ref.)

Granulocyte elastase indicates silent male genital tract inflammation and appropriate anti-inflammatory treatment. Reinhardt A, et al. **Andrologia** 1997 Jul–Aug;29(4):187–92

Epidermoid cyst of the scrotum: a case report. Kawai N, et al. **Hinyokika Kiyo** 1996 Aug;42(8):609–11

Current perspectives on hematospermia: a review. Munkel witz R, et al. **J Androl** 1997 Jan–Feb;18(1):6–14 (111 ref.)

Comparison of clinical diagnosis and standard laboratory and molecular methods for the diagnosis of genital ulcer disease in Lesotho: association with human immunodeficiency virus infection. Morse SA, et al. **J Infect Dis** 1997 Mar; 175(3):583–9

Caution with post-treatment test-of-cure for genital Chlamydia [letter] MacEachern KA, et al. **Med J Aust** 1997 Aug 4;167(3):171–2

MR imaging in male infertility. Parsons RB, et al. **Radiographics** 1997 May–Jun;17(3):627–37

The acute scrotum. Siegel MJ. **Radiol Clin North Am** 1997 Jul;35(4):959–76 (41 ref.)

[Genital erosive lichen planus] Vilmer C, et al. **Ann Dermatol Venereol** 1996;123(6–7):405–13 (70 ref.) **(Fre)**

[Prostate, ejaculatory tract, lower urinary tract] Dana A. **J Radiol** 1997 Mar;78(3 Suppl):27–9 **(Fre)**

[Genital tracts] Martin B. **J Radiol** 1997 Mar;78(3 Suppl):30–5 **(Fre)**

[White genital piedra] Schwinn A, et al. **Hautarzt** 1996 Aug; 47(8):638–41 (32 ref.) (Eng. Abstr.) **(Ger)**

[Role and current significance of EDVG (epididymography plus vasography) in obstructive azoospermia] Della Morte E, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):367–72 (Eng. Abstr.) **(Ita)**

[Obstructive azoospermia. Instrumental diagnosis: echography and endoscopy] Ferrando U, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):363–6 (Eng. Abstr.) **(Ita)**

[Retrospective study of 107 patients with hematospermia] Jinza S, et al. **Hinyokika Kiyo** 1997 Feb;43(2):103–7 (Eng. Abstr.) **(Jpn)**

[Usefulness of counting leukocytes and round cells in determination of bacterial infection of semen in infertile men] Jędrzejczak P, et al. **Ginekol Pol** 1996 Nov; 67(11):569–73 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Intralesional fluorouracil/epinephrine injectable gel for treatment of condylomata acuminata. A phase 3 clinical study. Swinehart JM, et al. **Arch Dermatol** 1997 Jan; 133(1):67–73

[Paroxetine in the treatment of premature ejaculation] Giammusso B, et al. **Arch Ital Urol Androl** 1997 Feb; 69(1):11–3 (Eng. Abstr.) **(Ita)**

[Symptomatic efficacy of clotrimazole combined with surgery in the treatment of recurring anal and genital condylomatosis in seropositive and AIDS patients] Erenbourg L, et al. **Minerva Med** 1996 Sep;87(9):433–5 (Eng. Abstr.) **(Ita)**

ECONOMICS

Comparison of 1997 Medicare relative value units for gender-specific procedures: is Adam still worth more than Eve? Goff BA, et al. **Gynecol Oncol** 1997 Aug;66(2):313–9

ENZYMOLOGY

Granulocyte elastase indicates silent male genital tract inflammation and appropriate anti-inflammatory treatment. Reinhardt A, et al. **Andrologia** 1997 Jul–Aug;29(4):187–92

EPIDEMIOLOGY

Disorders of spermatogenesis in Finland. Is this a period effect, and if so, why? [letter; comment] Joffe M. **BMJ** 1997 Apr 5;314(7086):1042–3. Comment on: BMJ 1997 Jan 4;314(7073):13–8.

Incidence of disorders of spermatogenesis in middle aged finnish men, 1981–91: two necropsy series [see comments] Pajarinen J, et al. **BMJ** 1997 Jan 4;314(7073):13–8. Comment in: BMJ 1997 Apr 5;314(7086):1042–3.

Genital Chlamydia trachomatis infections in primary care [see comments] Ross JD, et al. **BMJ** 1996 Nov 9; 313(7066):1192–3. Comment in: BMJ 1996 Nov 9;313(7066):1160–1. Comment in: BMJ 1997 Feb 15;314(7079):516–7.

Genital ulcer disease among STD clinic attenders in Nairobi: association with HIV-1 and circumcision status. Nasio JM, et al. **Int J STD AIDS** 1996 Oct;7(6):410–4

The epidemiology of notified genital Chlamydia trachomatis infection in Victoria, Australia: a survey of diagnosing providers. Thompson SC, et al. **Int J STD AIDS** 1997 Jun; 8(6):382–7

[Epidemiological studies of patients with genital chlamydiosis in Pleven District] Stoĭkov S, et al. **Akush Ginekol (Sofiia)** 1996;35(4):14–7 (Eng. Abstr.) **(Bul)**

[Epidemiologic analysis of genital diseases associated to papillomavirus] Rios AC, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):333–6 (Eng. Abstr.) **(Por)**

ETIOLOGY

Sclerosing lipogranuloma of the scrotum following a laparoscopic herniorraphy and varicocelectomy—a case report. Baladas HG, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):238–40 (4 ref.)

Is vasectomy harmful to health? McDonald SW. **Br J Gen Pract** 1997 Jun;47(419):381–6 (113 ref.)

Gonadal dysfunction in males with prolactinoma: from functional modification to irreversible damage? [letter; comment] Delgrange E, et al. **Eur J Endocrinol** 1997 Jun; 136(6):630. Comment on: Eur J Endocrinol 1996 Nov;135(5):548–52.

Lymphoedema of the genitalia secondary to skin tuberculosis: report of three cases [letter] Ramesh V, et al. **Genitourin Med** 1997 Jun;73(3):226–7

[Clinical studies on acute scrotum—focusing on torsion of the spermatic cord] Nishimura K, et al. **Hinyokika Kiyo** 1996 Oct;42(10):723–7 (Eng. Abstr.) **(Jpn)**

GENETICS

[An analysis of the mutations in the gene of the mucoviscidosis transmembrane regulator protein (MTRP) in patients with congenital bilateral aplasia of the vas deferens] Gusak NM, et al. **Tsitol Genet** 1996 Sep–Oct; 30(5):48–53 (Eng. Abstr.) **(Rus)**

HISTORY

The Charles procedure: misquoted and misunderstood since 1950. Dumanian GA, et al. **Plast Reconstr Surg** 1996 Dec; 98(7):1258–63

IMMUNOLOGY

The incidence of antisperm antibodies in patients with seminal tract obstructions. Yamamoto M, et al. **Nagoya J Med Sci** 1996 Mar;59(1–2):25–9

METABOLISM

Generation of reactive oxygen species by leukocytes and sperm following exposure to urogenital tract infection. Wang A, et al. **Arch Androl** 1997 Jul–Aug;39(1):11–7

MICROBIOLOGY

Prospective analysis of genital ulcer disease in Brooklyn, New York. Dillon SM, et al. **Clin Infect Dis** 1997 May; 24(5):945–50

To which extent Ureaplasma urealyticum (mycoplasma) genital infection is responsible for male infertility. Roy SK, et al. **Indian J Med Sci** 1996 Nov;50(11):299–301

Case report: scrotal cellulitis secondary to hot tub exposure. Forrest JB, et al. **J Okla State Med Assoc** 1996 Nov; 89(11):400–1

Molecular approaches to the diagnosis of male infertility. Jeremias J, et al. **Mol Hum Reprod** 1996 Mar;2(3):195–202 (60 ref.)

[Sexually transmitted diseases in men] Méria P, et al. **Prog Urol** 1996 Jun;6(3):447–54 (55 ref.) (Eng. Abstr.) **(Fre)**

[Detection of Chlamydia trachomatis, Mycoplasma hominis and Ureaplasma urealiticum in diseases of the male and female reproductive system by using polymerase chain reaction] Zhdanov AV, et al. **Biull Eksp Biol Med** 1996 May;121(5):547–50 **(Rus)**

PARASITOLOGY

Hydatid cysts of the kidney, seminal vesicle and gluteus muscle. Pasaoglu E, et al. **Australas Radiol** 1997 Aug; 41(3):297–9 (12 ref.)

Altered seminal ejaculate consistency due to schistosomiasis. Lewis DA, et al. **Br J Urol** 1996 Dec;78(6):956–7

PATHOLOGY

External anogenital lesions in organ transplant recipients. A clinicopathologic and virologic assessment [see comments] Euvrard S, et al. **Arch Dermatol** 1997 Feb;133(2):175–8. Comment in: Arch Dermatol 1997 Feb;133(2):221–3.

The evaluation of morphological abnormalities of human spermatozoa in fertile and infertile men. Matalliotakis I, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 May; 66(1):65–8

Anogenital skin diseases of childhood. Siegfried EC, et al. **Pediatr Ann** 1997 May;26(5):321–31

Extratesticular epidermoid cyst with extension into the pelvis. Göktas S, et al. **Scand J Urol Nephrol** 1997 Feb; 31(1):109–10

[Systemic sarcoidosis with involvement of the spermatic cord] Nagayama M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar; 35(3):328–33 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Current perspectives on hematospermia: a review. Munkel witz R, et al. **J Androl** 1997 Jan–Feb;18(1):6–14 (111 ref.)

Corino-Andrade disease (familial amyloidotic polineuropathy type I) in Spain: urological and andrological disorders. Hita Villaplana G, et al. **Neurourol Urodyn** 1997;16(1):55–61 (17 ref.)

PREVENTION & CONTROL

Controlling genital chlamydial infection. Figures are underestimates because men are not tested [letter; comment] Bolam MJ. **BMJ** 1997 Feb 15;314(7079):516. Comment on: BMJ 1996 Nov 9;313(7066):1160–1.

Controlling genital chlamydial infection [editorial; comment] [see comments] Johnson AM, et al. **BMJ** 1996 Nov 9; 313(7066):1160–1. Comment on: BMJ 1996 Nov 9;313(7066):1186–9. Comment on: BMJ 1996 Nov 9;313(7066):1192–3. Comment on: BMJ 1996 Nov 9;313(7066):1193–4. Comment in: BMJ 1997 Feb 15;314(7079):516.

Controlling genital chlamydial infection. Integrated approach is needed [letter; comment] Stokes T, et al. **BMJ** 1997 Feb 15;314(7079):516–7. Comment on: BMJ 1996 Nov 9;313(7066):1192–3.

PSYCHOLOGY

[The psychological status of men with inflammatory lesions of the urinary and genital systems of infectious origin (based on data from the Eysenck test)] Fedorenko OE. **Lik Sprava** 1996 Jul–Sep;(7–9):137–9 **(Ukr)**

RADIOGRAPHY

Use of endorectal surface coil magnetic resonance imaging for diagnosis of a multicystic seminal vesicle with ipsilateral renal agenesis. Friedrichs R, et al. **Urol Int** 1996;57(2):115–8

SURGERY

Is the conservative management of the acute scrotum justified on clinical grounds? Watkin NA, et al. **Br J Urol** 1996 Oct;78(4):623–7

Comparison of 1997 Medicare relative value units for gender-specific procedures: is Adam still worth more than Eve? Goff BA, et al. **Gynecol Oncol** 1997 Aug;66(2):313–9

Genitourinary surgical emergencies. Gausche M. **Pediatr Ann** 1996 Aug;25(8):458–64; quiz 465–7

Skin graft reconstruction of chronic genital lymphedema. Morey AF, et al. **Urology** 1997 Sep;50(3):423–6

[Symptomatic efficacy of clotrimazole combined with surgery in the treatment of recurring anal and genital condylomatosis in seropositive and AIDS patients] Erenbourg L, et al. **Minerva Med** 1996 Sep;87(9):433–5 (Eng. Abstr.) **(Ita)**

[A case of Sparganosis mansoni with a painless mass in the inguinal region and the scrotum] Ishida Y, et al. **Hinyokika Kiyo** 1996 Dec;42(12):983–5 (Eng. Abstr.) **(Jpn)**

[Indication for surgery of pediatric testicular and funicular hydroceles in view of natural course] Yamaguchi T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Nov;87(11):1243–9 (Eng. Abstr.) **(Jpn)**

[Local anesthesia in inguinoscrotal pathology] López Cubillana P, et al. **Actas Urol Esp** 1996 May;20(5):459–64 (Eng. Abstr.) **(Spa)**

THERAPY

Treatment of men with flat (FC) or acuminata (CA) condylomata with interferon alpha-2a. Relakis K, et al. **Eur J Gynaecol Oncol** 1996;17(6):529–33

Audits of the treatment of genital warts: closing the feedback loop. Reynolds M, et al. **Int J STD AIDS** 1996 Aug–Sep; 7(5):347–52

The use of EMLA cream and 1% lidocaine infiltration in men for relief of pain associated with the removal of genital warts by cryotherapy. Menter A, et al. **J Am Acad Dermatol** 1997 Jul;37(1):96–100

Common urologic disorders. When to treat and when to refer. Gottesman J, et al. **Postgrad Med** 1997 Aug; 102(2):235–40, 243, 246 (18 ref.)

Diagnosis and management of ejaculatory duct obstruction. Jarow JP. **Tech Urol** 1996 Summer;2(2):79–85

GENITAL DISEASES, MALE

[Nonsurgical and endoscopic therapy in obstructive azoospermia] Patelli E, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):373–8 (Eng. Abstr.) **(Ita)**

ULTRASONOGRAPHY

Transperineal sonography in children. Teele RL, et al. **AJR Am J Roentgenol** 1997 May;168(5):1263–7

Transrectal ultrasonography in the diagnosis and management of ejaculatory duct obstruction. Jarow JP. **J Androl** 1996 Sep–Oct;17(5):467–72 (18 ref.)

Diagnosis and management of ejaculatory duct obstruction. Jarow JP. **Tech Urol** 1996 Summer;2(2):79–85

Occurrence of living adult Wuchereria bancrofti in the scrotal area of men with microfilaraemia. Norões J, et al. **Trans R Soc Trop Med Hyg** 1996 Jan–Feb;90(1):55–6

[Accessory spleen of the spermatic cord] Paul R, et al. **Urologe A** 1997 May;36(3):262–4 (Eng. Abstr.) **(Ger)**

[Obstructive azoospermia. Instrumental diagnosis: echography and endoscopy] Ferrando U, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):363–6 (Eng. Abstr.) **(Ita)**

[Hemospermia: role of transrectal echography] Nicolai M, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):129–32 (Eng. Abstr.) **(Ita)**

VETERINARY

Tumours of the testis and accessory male sex glands. Ribas JL, et al. **IARC Sci Publ** 1996;(126):261–80 (94 ref.)

Failure to establish chronic infection of the reproductive tract of the male horse with a South African asinine strain of equine arteritis virus (EAV). Paweska JT. **Onderstepoort J Vet Res** 1997 Mar;64(1):17–24

Bovine seminal vesiculitis. A review and update. Cavalieri J, et al. **Vet Clin North Am Food Anim Pract** 1997 Jul; 13(2):233–41 (30 ref.)

VIROLOGY

External anogenital lesions in organ transplant recipients. A clinicopathologic and virologic assessment [see comments] Euvrard S, et al. **Arch Dermatol** 1997 Feb;133(2):175–8. Comment in: Arch Dermatol 1997 Feb;133(2):221–3.

Detection of human papillomavirus L1 protein in condylomata acuminata from various anatomical sites. Wools K, et al. **Sex Transm Dis** 1994 Mar–Apr;21(2):103–6

GENITAL NEOPLASMS, FEMALE

Reproductive tract malignancies: a neglected aspect of reproductive health. López de la Osa E. **Adv Contracept** 1996 Dec;12(4):293–6 (8 ref.)

Gynecologic cancer in the elderly. Termrungruanglert W, et al. **Clin Geriatr Med** 1997 May;13(2):363–79 (74 ref.)

Gynecologic oncology and pathology. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):B1–30

Gynecologic cancer. **Curr Opin Oncol** 1996 Sep;8(5):B156–65

Proceedings of the IInd National Meeting of the Hellenic Society of Gynaecological Oncology. Delphi, October 6–8, 1995. **Eur J Gynaecol Oncol** 1996;17(5):407–63

European Society of Gynaecological Oncology, 10th International Meeting. Coimbra, Portugal, 26 April–2 May 1997. Abstracts. **Eur J Gynaecol Oncol** 1997;18(4):215–331

Facts, misconceptions, and myths about cancer. What do patients with gynecological cancer and the female public at large know? Carlsson ME, et al. **Gynecol Oncol** 1997 Apr;65(1):46–53

The effects of the PDQ patient information file (PIF) on patients' knowledge, enrollment in clinical trials, and satisfaction. Berner ES, et al. **J Cancer Educ** 1997 Summer; 12(2):121–5

Plexiform neurofibromatosis involving the uterine cervix, endometrium, myometrium, and ovary. Gordon MD, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):699–701

[15th Prague Gynecologic Oncology Seminar organized by the Cervical Pathology Section and Gynecologic Oncology Section of the Czech Gynecologic and Obstetrical Society, December 1995. Selected reports] **Ceska Gynekol** 1996 Aug;61(4):249–72 **(Cze)**

[Gynecologic oncologic information from the Internet] Seufert R, et al. **Zentralbl Gynakol** 1997;119(8):394–5 **(Ger)**

[Cancer cells; its characteristics and behavior] Sakamoto H. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug;48(8):683–8 (5 ref.) **(Jpn)**

BLOOD

Combined use of urinary UGP and serum CA 125 in the diagnosis of gynecological cancers. Plebani M, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3833–8

Clinical evaluation of the Byk LIA-mat CA125 II assay: discussion of a reference value. Bonfrer JM, et al. **Clin Chem** 1997 Mar;43(3):491–7

BLOOD SUPPLY

Gray scale sonography, subjective evaluation of the color Doppler image and measurement of blood flow velocity for distinguishing benign and malignant tumors of suspected adnexal origin. Valentin L. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72(1):63–72

CHEMICALLY INDUCED

Hormone replacement therapy and major risk factors for reproductive cancers, osteoporosis, and cardiovascular diseases: evidence of confounding by exposure characteristics. Persson I, et al. **J Clin Epidemiol** 1997 May; 50(5):611–8

Potentiation of diethylstilbestrol-induced alterations in the female mouse reproductive tract by transforming growth factor-alpha transgene expression. Gray K, et al. **Mol Carcinog** 1996 Nov;17(3):163–73

[Postmenopausal hormone replacement therapy and cancer of the female genitalia and breast] Burger CW, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):368–72 (22 ref.) (Eng. Abstr.) **(Dut)**

[How hazardous is the use of female steroid hormones?] Orbo A, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):972–6 (78 ref.) (Eng. Abstr.) **(Nor)**

CHEMISTRY

Frequent expression of Fas in gonadotropin-releasing hormone receptor-bearing tumors. Imai A, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jul;74(1):73–8

DNA aneuploidy in benign tumors and normal tissues of the female genital tract. Lai CH, et al. **Int J Gynecol Pathol** 1996 Jan;15(1):63–8

Immunohistochemical study of c-erb B-2 expression in malignant mixed müllerian tumors of the female genital tract. Nasu K, et al. **J Obstet Gynaecol Res** 1996 Aug; 22(4):347–51

COMPLICATIONS

Low-risk human papillomavirus types 6 and 11 associated with carcinomas of the genital and upper aero-digestive tract. Turazza E, et al. **Acta Obstet Gynecol Scand** 1997 Mar;76(3):271–6

Antiemetic efficacy of granisetron in patients with gynecological malignancies. Sismondi P, et al. **Anticancer Drugs** 1997 Mar;8(3):225–30

Intestinal obstruction in patients with advanced gynecological cancer. A study of 62 cases. Emmert C, et al. **Arch Gynecol Obstet** 1996;258(4):213–8

Low molecular heparin (Enoxaparin) as an alternative treatment of acute deep venous thrombosis in gynecologic oncology patients. Fishman A, et al. **Eur J Gynaecol Oncol** 1996;17(5):365–7

Arterial occlusion complicating treatment of gynecologic cancer: a case series. Levenback C, et al. **Gynecol Oncol** 1996 Oct;63(1):40–6

Percutaneous abscess drainage in gynecologic cancer patients. Ramondetta LM, et al. **Gynecol Oncol** 1996 Sep; 62(3):366–9

Paraneoplastic syndromes of gynecologic neoplasms. Ashour AA, et al. **J Clin Oncol** 1997 Mar;15(3):1272–82 (138 ref.)

The role of total parenteral nutrition for patients with irreversible bowel obstruction secondary to gynecological malignancy. Philip J, et al. **J Pain Symptom Manage** 1997 Feb;13(2):104–11

Infection of human papillomavirus (HPV) and p53 over-expression in human female genital tract carcinoma. Anwar K, et al. **JPMA J Pak Med Assoc** 1996 Oct; 46(10):220–4

DIAGNOSIS

Proposed guidelines for primary screening instruments for gynecologic cytology. Developed by the Intersociety Working Group for Cytology Technologies. **Acta Cytol** 1997 May–Jun;41(3):924–33; discussion 934

Peritoneal washing cytology. How significant? [editorial] Ducatman BS, et al. **Arch Pathol Lab Med** 1997 Sep; 121(9):923–4

Colposcopy in general practice. Cherry S, et al. **Aust Fam Physician** 1996 Nov;25(11):1737–42

The value of markers for cell proliferation and cell loss in gynaecological cancer. Cheung AN. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):32–6 (35 ref.)

A study to determine the underlying reason for abnormal glandular cytology and the formulation of a management protocol [see comments] Leeson SC, et al. **Cytopathology** 1997 Feb;8(1):20–6. Comment in: Cytopathology 1997 Feb;8(1):27–30. Comment in: Cytopathology 1997 Jun;8(3):217.

Glandular abnormalities: dilemmas in cytological prediction and clinical management [comment] Waddell CA. **Cytopathology** 1997 Feb;8(1):27–30 (20 ref.). Comment on: Cytopathology 1997 Feb;8(1):20–6.

The feasibility of open laparoscopy in gynecologic-oncologic patients. Decloedt J, et al. **Gynecol Oncol** 1997 Jul; 66(1):138–40

Laser-induced fluorescence detection of malignancies in the female genital tract via their natural emission and hypocrellin (HA) probing. Koumantakis E, et al. **J Photochem Photobiol B** 1997 Jan;37(1–2):96–100

False positive malignant peritoneal cytology and psammoma bodies in benign gynecologic disease. Fanning J, et al. **J Reprod Med** 1996 Jul;41(7):504–8

Dural ectasia presenting as an adnexal mass. Forsnes EV, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):712–3

Masculinizing and feminizing syndromes caused by functioning tumors. Masiakos PT, et al. **Semin Pediatr Surg** 1997 Aug;6(3):147–55 (64 ref.)

Training in colposcopy: experience with a videocolposcopy test. Cecchini S, et al. **Tumori** 1997 May–Jun;83(3):650–2

[Gynecologic origin of acute abdomen in childhood] Schmitz-Stolbrink A. **Radiologe** 1997 Jun;37(6):459–63 (27 ref.) (Eng. Abstr.) **(Ger)**

[Analysis of the validity of vaginal-cervical cytologic examination in 162 pre- and post-menopausal patients] Martelli M, et al. **Minerva Ginecol** 1996 Jun;48(6):235–8 (Eng. Abstr.) **(Ita)**

[Tumor markers in gynecological cancer] Orbo A. **Tidsskr Nor Laegeforen** 1996 Oct 10;116(24):2886–8 (41 ref.) (Eng. Abstr.) **(Nor)**

[Use of low-field MR tomography in the comprehensive diagnosis of diseases of the small pelvis] Shatov AV. **Vestn Rentgenol Radiol** 1996 May–Jun;(3):57–60 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Cisplatin-induced nephrotoxicity and the protective effect of fosfomycin on it as demonstrated by using a crossover study of urinary metabolite levels. Hayashi M, et al. **Acta Obstet Gynecol Scand** 1997 Jul;76(6):590–5

Increased nephrotoxicity of combination taxol and cisplatin chemotherapy in gynecologic cancers as compared to cisplatin alone. Merouani A, et al. **Am J Nephrol** 1997; 17(1):53–8

In vitro studies on the potential use of 5-aminolaevulinic acid-mediated photodynamic therapy for gynaecological tumours. Rossi FM, et al. **Br J Cancer** 1996 Sep;74(6):881–7

Cisplatin administration to gynecologic cancer patients. Long-term effects on hearing. Laurell G, et al. **Cancer** 1996 Oct 15;78(8):1798–804

New drugs in gynecologic oncology. Eisenhauer EA, et al. **Curr Opin Oncol** 1996 Sep;8(5):408–14 (43 ref.)

LHRH agonist treatment of breast cancer and gynecological malignancies: a review. Burger CW, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Jul;67(1):27–33 (74 ref.)

Control of carboplatin-induced emesis with a fixed low dose of granisetron (0.5 mg) plus dexamethasone. Markman M, et al. **Gynecol Oncol** 1996 Mar;60(3):435–7

Chemotherapy for lymphatic metastatic gynecologic cancer via pelvic retroperitoneal cannulation: a preliminary report. Zeyi C, et al. **Gynecol Oncol** 1996 Dec;63(3):358–63

The effect of prolonged cycles of chemotherapy on quality of life in gynaecologic cancer patients. Carter JR, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):197–203

Photodynamic therapy in gynaecological neoplastic diseases. Corti L, et al. **J Photochem Photobiol B** 1996 Nov; 36(2):193–7

Photodynamic therapy in gynaecologic cancer. Koren H, et al. **J Photochem Photobiol B** 1996 Nov;36(2):189–91

The Fox Chase Cancer Center and Free University Hospital Investigators' Workshop and Consensus Conference on Paclitaxel. Part 3: Gynecologic malignancies, head and neck cancer, and other tumor types. Marrakech, Morocco, January 18–20, 1996 and St Croix, Virgin Islands, March 13–16, 1996. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-1–S2-120; quiz S2-121–S2-123 (0 ref.)

The effect of paclitaxel on the radiosensitivity of gynecological tumor cells. Rave-Fränk M, et al. **Strahlenther Onkol** 1997 May;173(5):281–6

A new mode of treatment of human papilloma virus associated anogenital lesions using a nonsteroid estrogen analogue. Schön HJ, et al. **Wien Klin Wochenschr** 1996; 108(2):45–7

[Summary of the National Conference on Chemotherapy of Gynecological Malignancies] Lang J, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Feb;31(2):71–4 **(Chi)**

[New drugs. Topoisomerase inhibitors] Gutzler F. **Zentralbl Gynakol** 1996;118(10):579 **(Ger)**

[Ifosfamide] Manegold C. **Zentralbl Gynakol** 1996; 118(10):580–1 **(Ger)**

[Effectiveness and tolerance of Navoban (5HT3-receptor antagonist tropisetron) in prevention of cytostatic drug-induced nausea and vomiting in patients with breast carcinomas and gynecological malignancies] Regidor PA, et al. **Zentralbl Gynakol** 1996;118(3):148–53 (Eng. Abstr.) **(Ger)**

[Evaluation of bone loss in patient treated with Gn-Rh analogs] Cassese E, et al. **Minerva Ginecol** 1997 Jun; 49(6):255–9 (Eng. Abstr.) **(Ita)**

[Consecutive low-dose cisplatin-based chemotherapy for gynecologic malignancies] Shimizu Y. **Gan To Kagaku Ryoho** 1997 Feb;24(4):431–8 (20 ref.) (Eng. Abstr.) **(Jpn)**

[A randomized cross-over comparative study of granisetron alone and combination of granisetron, methylprednisolone and droperidol as antiemetic prophilaxis in CDDP-based chemotherapy for gynecologic cancer] Wataba K, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):691–7 (Eng. Abstr.) **(Jpn)**

[Clinical experience with the use of Tantum Rosa in cancer patients] Chulkova OV, et al. **Vopr Onkol** 1997; 43(3):339–40 **(Rus)**

ENZYMOLOGY

Hyaluronidase activity in gynaecological cancer tissues with different metastatic forms. Tamakoshi K, et al. **Br J Cancer** 1997;75(12):1807–11

Local activity of matrix metalloproteinases in a case of botryoid sarcoma. Rechberger T, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug;67(2):169–72

Telomerase activity in gynecologic tumors. Zheng PS, et al. **Gynecol Oncol** 1997 Jan;64(1):171–5

Serum alpha L–fucosidase enzyme activity in ovarian and other female genital tract tumors. Abdel–Aleem H, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):273–9

Adrenal rest tumor of the broad ligament: case report with immunohistochemical study of steroidogenic enzymes. Sasano H, et al. **Pathol Int** 1997 Jul;47(7):493–6

The activity of alpha–amylase and its salivary isoenzymes in serum and urine of patients with neoplastic diseases of female reproductive organs. Zakrzewska I, et al. **Rocz Akad Med Bialymst** 1996;41(2):492–8

EPIDEMIOLOGY

Cancer of the female genital tract in Circumpolar Inuit. Kjaer SK, et al. **Acta Oncol** 1996;35(5):581–7

Cumulative risk of second primary cancers in women with index primary cancers of uterine cervix and incidence of lower anogenital tract cancers, Michigan, 1985–1992. Fisher G, et al. **Gynecol Oncol** 1997 Feb;64(2):213–23

Midline teratomas, mullerianosis, the multifariousness of gynaecological neoplasias, and the scrotum. Are they manifestations of a germ–soma barrier? Pansera F. **Med Hypotheses** 1997 Apr;48(4):361–4

The association of smoking and risk of condyloma acuminatum in women. Feldman JG, et al. **Obstet Gynecol** 1997 Mar;89(3):346–50

Epidemiology of anogenital warts and cancer. Franco EL. **Obstet Gynecol Clin North Am** 1996 Sep;23(3):597–623 (114 ref.)

Epidemiologic analysis of breast and gynecologic cancers. Hulka BS. **Prog Clin Biol Res** 1997;396:17–29 (41 ref.)

[Genital diseases concomitant with endometriosis based on our data] Kichukova D. **Akush Ginekol (Sofiia)** 1996; 35(3):21 (Eng. Abstr.) **(Bul)**

ETHNOLOGY

Racial differences in survival from gynecologic cancer. Morgan MA, et al. **Obstet Gynecol** 1996 Dec;88(6):914–8

ETIOLOGY

Skin disorders in organ transplant recipients. External anogenital lesions [editorial; comment] Penn I. **Arch Dermatol** 1997 Feb;133(2):221–3. Comment on: Arch Dermatol 1997 Feb;133(2):175–8.

Renal allograft recipients with high susceptibility to cutaneous malignancy have an increased prevalence of human papillomavirus DNA in skin tumours and a greater risk of anogenital malignancy. Arends MJ, et al. **Br J Cancer** 1997;75(5):722–8

Gonadotropins are essential modifier factors for gonadal tumor development in inhibin–deficient mice. Kumar TR, et al. **Endocrinology** 1996 Oct;137(10):4210–6

Wild–type p53 overexpression: what role in tumorigenesis? [editorial; comment] Wolf JK, et al. **Gynecol Oncol** 1996 Mar;60(3):337–8. Comment on: Gynecol Oncol 1996 Mar;60(3):339–44.

The link between female infertility and cancer: epidemiology and possible aetiologies. Meirow D, et al. **Hum Reprod Update** 1996 Jan–Feb;2(1):63–75 (114 ref.)

Environmental "endocrine disrupters" get a global look [news] Ziegler J. **J Natl Cancer Inst** 1997 Aug 20; 89(16):1184–7

Etiology of Breast and Gynecological Cancers. Proceedings of the 9th International Conference on Carcinogenesis and Risk Assessment. Austin, Texas, November 29 – December 2, 1995. **Prog Clin Biol Res** 1997;396:1–282

GENETICS

Oncogenes and onco–suppressor genes in female genital cancer. Koffa M, et al. **Ann N Y Acad Sci** 1997 Jun 17; 816:347–55 (58 ref.)

The genetics of gynaecological malignancy. Eccles DM. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):416–9 (6 ref.)

p16INK4 and p15INK4B alterations in primary gynecologic malignancy. Wong YF, et al. **Gynecol Oncol** 1997 May; 65(2):319–24

Expression of CD44 alternative splicing variants in primary and lymph node metastatic lesions of gynecological cancer. Yorishima T, et al. **Hiroshima J Med Sci** 1997 Mar; 46(1):21–9

The role of the HER–2/neu oncogene in gynecologic cancers. Cirisano FD, et al. **J Soc Gynecol Investig** 1996 May–Jun;3(3):99–105 (54 ref.)

Expression of estrogen receptor exon 5 splicing variant (ER E5SV) mRNA in gynaecological cancers. Fujimoto J, et al. **J Steroid Biochem Mol Biol** 1997 Jan;60(1–2):25–30

Cytogenetics in obstetrics and gynecology. Mark HF, et al. **Med Health R I** 1996 Feb;79(2):55–7 (25 ref.)

Potentiation of diethylstilbestrol–induced alterations in the female mouse reproductive tract by transforming growth factor–alpha transgene expression. Gray K, et al. **Mol Carcinog** 1996 Nov;17(3):163–73

Oncogenes in gynecologic oncology. Maxwell GL, et al. **Obstet Gynecol Surv** 1996 Dec;51(12):710–7 (124 ref.)

[Oncogenes in gynecological malignancies (editorial)] Zhang X. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov;30(11):643–6 **(Chi)**

HISTORY

[The Petersburg school of gynecologic oncology: some results and perspectives] Bokhman IV, et al. **Vopr Onkol** 1997;43(1):39–46 **(Rus)**

IMMUNOLOGY

Expression of CD44 alternative splicing variants in primary and lymph node metastatic lesions of gynecological cancer. Yorishima T, et al. **Hiroshima J Med Sci** 1997 Mar; 46(1):21–9

METABOLISM

Circulating tumor markers in gynecological tumors. Rustin GJ. **Curr Opin Oncol** 1996 Sep;8(5):426–31 (51 ref.)

Signal transduction of GnRH receptor in the reproductive tract tumor. Imai A, et al. **Endocr J** 1996 Jun;43(3):249–60 (139 ref.)

Tissue expression of Sialyl Tn antigen in gynecologic tumors. Numa F, et al. **J Obstet Gynaecol** 1995 Aug;21(4):385–9

CSF–1 and its receptor in breast carcinomas and neoplasms of the female reproductive tract. Kacinski BM. **Mol Reprod Dev** 1997 Jan;46(1):71–4 (17 ref.)

MORTALITY

Racial differences in survival from gynecologic cancer. Morgan MA, et al. **Obstet Gynecol** 1996 Dec;88(6):914–8

[Prognosis in gynecologic diseases] Kremling H. **Versicherungsmedizin** 1996 Feb 1;48(1):25–7 (29 ref.) (Eng. Abstr.) **(Ger)**

NURSING

A study to ascertain gynaecological patients' perceived levels of embarrassment with physical and psychological care given by female and male nurses. Lodge N, et al. **J Adv Nurs** 1997 May;25(5):893–907

PATHOLOGY

Cytohistologic correlation in malignant peritoneal washings. Analysis of 75 malignant fluids. Mulvany N. **Acta Cytol** 1996 Nov–Dec;40(6):1231–9

Significance of peritoneal washings in gynecologic oncology. The experience with 901 intraoperative washings at an academic medical center. Mathew S, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):604–6

Assessment of the invasive potential of human gynecological tumor cell lines with the in vitro Boyden chamber assay: influences of the ability of cells to migrate through the filter membrane. Sieuwerts AM, et al. **Clin Exp Metastasis** 1997 Jan;15(1):53–62

Comparison between Centcor CA 125 and CA 125 II assays. Eltabbakh GH, et al. **Eur J Gynaecol Oncol** 1996; 17(6):504–6

Malignant tumors arising in endometriosis: clinical–pathological study and flow cytometry analysis. Fishman A, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec;70(1):69–74

Hepatic resection for metastatic gynecologic carcinomas. Chi DS, et al. **Gynecol Oncol** 1997 Jul;66(1):45–51 (18 ref.)

Fine–needle aspiration cytology versus core biopsies in the evaluation of recurrent gynecologic malignancies. Malmström H. **Gynecol Oncol** 1997 Apr;65(1):69–73

DNA aneuploidy in benign tumors and normal tissues of the female genital tract. Lai CH, et al. **Int J Gynecol Pathol** 1996 Jan;15(1):63–8

Endometrial pipelle biopsy compared to conventional dilatation and curettage. Ong S, et al. **Ir J Med Sci** 1997 Jan–Mar;166(1):47–9

Re: Peritoneal washing cytology in gynecologic cancers: long–term follow–up of 355 patients [letter; comment] Vikram B. **J Natl Cancer Inst** 1996 Dec 4;88(23):1779. Comment on: J Natl Cancer Inst 1996 Jul 17;88(14):980–7.

False positive malignant peritoneal cytology and psammoma bodies in benign gynecologic disease. Fanning J, et al. **J Reprod Med** 1996 Jul;41(7):504–8

Expression of estrogen receptor exon 5 splicing variant (ER E5SV) mRNA in gynaecological cancers. Fujimoto J, et al. **J Steroid Biochem Mol Biol** 1997 Jan;60(1–2):25–30

Adenoid cystic ovarian carcinoma compared with other adenoid cystic carcinomas of the female genital tract. Feczko JD, et al. **Mod Pathol** 1996 Apr;9(4):413–7

Differentiation between recurrent tumor and benign conditions after treatment of gynecologic pelvic carcinoma: value of dynamic contrast–enhanced subtraction MR imaging. Kinkel K, et al. **Radiology** 1997 Jul;204(1):55–63

Laparoscopy in gynaecological cancer. Vinatier D, et al. **Surg Oncol** 1996 Oct–Dec;5(5–6):211–20 (48 ref.)

[Primary multiple malignant tumors of the female genitalia] Mainkhard K, et al. **Akush Ginekol (Sofiia)** 1996; 35(1–2):38–40 (Eng. Abstr.) **(Bul)**

[Special issue on gynecologic pathology (editorial)] Guettier C. **Ann Pathol** 1996 Nov;16(5):313–4 **(Fre)**

[Staging of cancers of the utero–vagino–vulvar tract] Bazot M, et al. **J Radiol** 1997 Jan;78(1):11–9 (56 ref.) (Eng. Abstr.) **(Fre)**

[Cerebral metastases of gynecological origin] De Witte O, et al. **Neurochirurgie** 1996;42(4–5):216–20 (17 ref.) (Eng. Abstr.) **(Fre)**

[The present of drug sensitivity test] Udagawa Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug; 48(8):751–60 (29 ref.) **(Jpn)**

[Aggressive angiomyxoma in the pelvic region and adjacent tissues and organs in a woman. Case report and literature review] Sasko A, et al. **Ceska Gynekol** 1996 Aug; 61(4):240–3 (Eng. Abstr.) **(Slo)**

PHYSIOPATHOLOGY

LTERT and female genital cancer: health benefits and groundless risks [editorial] Onnis A. **Eur J Gynaecol Oncol** 1997;18(1):5–8

PREVENTION & CONTROL

The management of genital condylomas, intraepithelial neoplasia, and vulvodynia. Reid R. **Obstet Gynecol Clin North Am** 1996 Dec;23(4):917–91 (136 ref.)

Screening and chemoprevention of gynecologic tumors. Schottenfeld D, et al. **Obstet Gynecol Clin North Am** 1996 Jun;23(2):285–94

PA health department offers information on DES. **Pa Med** 1996 Jul;99(7):24

[The effect of prenatal diethylstilbestrol treatment on 1,2–dimethylhydrazine–induced carcinogenesis in C3HA female mice] Morozova OV, et al. **Vopr Onkol** 1997; 43(3):321–3 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Factors influencing views of patients with gynecologic cancer about end–of–life decisions. Roberts JA, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):166–72

Psychosexual morbidity following gynaecological malignancy [editorial] Casey C. **Ir Med J** 1996 Nov–Dec; 89(6):200, 202

Sexual self–schema and sexual morbidity among gynecologic cancer survivors. Andersen BL, et al. **J Consult Clin Psychol** 1997 Apr;65(2):221–9

Quality of life of Danish women: population–based norms of the EORTC QLQ–C30. Klee M, et al. **Qual Life Res** 1997 Jan;6(1):27–34

[Evaluation of the quality of life in patients with gynecologic cancer and its intervention] Sun X, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Jun;31(6):378–80 (16 ref.) **(Chi)**

RADIOGRAPHY

Computed radiography excretory urography: can the system sensitivity value be used as an image quality indicator? Andoh K, et al. **J Digit Imaging** 1997 Aug;10(3):132–6

RADIOTHERAPY

Accuracy of dose delivery in gynecological brachytherapy. Tenhunen M, et al. **Acta Oncol** 1997;36(5):527–9

Commentary: brachytherapy—clinical dosimetry and the integration of therapies of gynaecological cancer. Joslin CA. **Br J Radiol** 1996 Aug;69(824):689–92

Tumor debulking and IORT for recurrent gynecological carcinomas of the pelvic sidewall. Eble MJ, et al. **Front Radiat Ther Oncol** 1997;31:263–6

IORT for locally advanced gynecological malignancies. Haddock MG, et al. **Front Radiat Ther Oncol** 1997;31:256–9

CT–guided interstitial implantation of gynecologic malignancies. Erickson B, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):699–709

Intraoperative radiation therapy in gynecologic cancer: update of the experience at a single institution. Garton GR, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):839–43

A new technique for performing Syed–Neblett template interstitial implants for gynecologic malignancies using transrectal–ultrasound guidance. Stock RG, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):819–25

Late urological complications and malignancies after curative radiotherapy for gynecological carcinomas: a retrospective analysis of 10,709 patients. Maier U, et al. **J Urol** 1997 Sep;158(3 Pt 1):814–7

Comment on "Analysis of factors affecting the therapeutic gain in high dose rate gynecological implants relative to low dose rate implants" [Med. Phys. 23, 419–425 (1996)] [letter; comment] Dale RG. **Med Phys** 1996 Sep;23(9):1575, 1577. Comment on: Med Phys 1996 Mar;23(3):419–25.

Side effects and quality of life in patients receiving high–dose rate brachytherapy. Fieler VK. **Oncol Nurs Forum** 1997 Apr;24(3):545–53

Article on radiation therapy contained inaccuracies [letter; comment] Meegan M. **Oncol Nurs Forum** 1996 Oct; 23(9):1374–5. Comment on: Oncol Nurs Forum 1995 Sep;22(8):1227–32.

The ICRU 38, a need for a new edition [letter] de Almeida CE, et al. **Radiother Oncol** 1997 Mar;42(3):315–6

The effect of paclitaxel on the radiosensitivity of gynecological tumor cells. Rave–Fränk M, et al. **Strahlenther Onkol** 1997 May;173(5):281–6

[Current methods in brachytherapy of female genital malignancies] Kanaev SV, et al. **Vopr Onkol** 1997; 43(1):47–53 (25 ref.) (Eng. Abstr.) **(Rus)**

SECONDARY

Primary and recurrent colorectal cancer masquerading as

gynaecological malignancy. Brand A, et al. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):165-7

SURGERY

Pelvic exenteration for the treatment of gynecological malignancies. Numa F, et al. **Arch Gynecol Obstet** 1997; 259(3):133-8

Laparoscopic pelvic and aortic lymphadenectomy. Kadar N. **Baillieres Clin Obstet Gynaecol** 1995 Dec;9(4):651-73 (24 ref.)

The role of laparoscopic surgery in gynaecological oncology. Monaghan JM. **Baillieres Clin Obstet Gynaecol** 1995 Dec; 9(4):639-49 (16 ref.)

Hysterectomy: will it pay the bills in 2007? [editorial] [see comments] Lilford RJ. **BMJ** 1997 Jan 18;314(7075):160-1 . Comment in: BMJ 1997 May 10;314(7091):1417.

Vulvoperineal reconstruction after excision of anogenital multifocal intraepithelial neoplasia ("MIN"). Thomas SS, et al. **Br J Plast Surg** 1996 Dec;49(8):539-46

The assessment and surgical management of recurrent pelvic cancer of the female genitalia. Monaghan JM. **Br J Urol** 1997 Jul;80 Suppl 1:62-5 (10 ref.)

Laparoscopic management of gynecological malignancies. Kadar N. **Curr Opin Obstet Gynecol** 1997 Aug;9(4):247-55 (52 ref.)

Exenterative surgery. Vergote IB. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):25-8 (34 ref.)

Less invasive surgery for gynecologic tumors. Monaghan JM. **Curr Opin Oncol** 1996 Sep;8(5):402-7 (32 ref.)

Pelvic floor reconstruction after major cancer surgery. Voros D, et al. **Dis Colon Rectum** 1996 Nov;39(11):1232-4

Hepatic resection for metastatic gynecologic carcinomas. Chi DS, et al. **Gynecol Oncol** 1997 Jul;66(1):45-51 (18 ref.)

Management of gynecologic oncology patients with a preoperative deep vein thrombosis. Hoffman MS, et al. **Gynecol Oncol** 1997 Jan;64(1):76-9

Gynecologic oncology patients in the surgical ICU. Impact on outcome. Abbas FM, et al. **J Reprod Med** 1997 Mar; 42(3):173-8

Postoperative color Doppler flow ultrasonographic assessment of ureteral patency in gynecologic oncology patients. Abulafia O, et al. **J Ultrasound Med** 1997 Feb; 16(2):125-9

A randomized comparison of continuous versus interrupted mass closure of midline incisions in patients with gynecologic cancer. Colombo M, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):684-9

An outcomes management program in gynecologic oncology. Morris M, et al. **Obstet Gynecol** 1997 Apr;89(4):485-92

Laparoscopy in gynaecological cancer. Vinatier D, et al. **Surg Oncol** 1996 Oct-Dec;5(5-6):211-20 (48 ref.)

Future endoscopic trends in gynecological oncology. Bruhat MA, et al. **Zentralbl Gynakol** 1996;118(2):49-52 (29 ref.)

[Experiences with external quality assurance in gynecologic surgery] Geraedts M, et al. **Gynakol Geburtshilfliche Rundsch** 1997;37(1):14-20 (Eng. Abstr.) **(Ger)**

[Gynecological management of patients over 80 years old. Results of a prospective study] Köchli OR, et al. **Gynakol Geburtshilfliche Rundsch** 1996;36(2):63-8 (Eng. Abstr.) **(Ger)**

[Indications and results of surgically treated, with temporary vena cava filter managed patients] Zwaan M, et al. **Zentralbl Chir** 1996;121(12):1063-8 (Eng. Abstr.) **(Ger)**

[Laparoscopy in the day clinic--a prospective multicenter study for evaluating complications] Hennefründ J, et al. **Zentralbl Gynakol** 1996;118(2):113-6 (Eng. Abstr.) **(Ger)**

[Minimal invasive surgery--future prospects] Knapstein PG, et al. **Zentralbl Gynakol** 1996;118(2):110-2 (Eng. Abstr.) **(Ger)**

[Aspects of peritoneal fascia closure after surgical laparoscopy] Lueken RP, et al. **Zentralbl Gynakol** 1996; 118(2):62-5 (Eng. Abstr.) **(Ger)**

[Laparoscopic para-aortic and pelvic lymph node excision--initial experiences and development of a technique] Schneider A, et al. **Zentralbl Gynakol** 1996; 118(9):498-504 (Eng. Abstr.) **(Ger)**

[Micro-endoscopy, minimal access endoscopy--an overview of current status and future possibilities] Wallwiener D, et al. **Zentralbl Gynakol** 1996;118(2):83-6 (11 ref.) (Eng. Abstr.) **(Ger)**

[Laparoscopic surgery in gynecology. Surgical reform of mere luxury? (Physiologic and economic effects of laparoscopic surgery)] Hercz P. **Orv Hetil** 1997 Feb 2; 138(5):271-4 (31 ref.) (Eng. Abstr.) **(Hun)**

THERAPY

Gynaecological cancer services: time for change [letter; comment] Cullimore J. **Br J Obstet Gynaecol** 1997 Aug; 104(8):974. Comment on: Br J Obstet Gynaecol 1997 Feb;104(2):123-6.

Gynaecological cancer services: time for change [comment] [see comments] Kitchener HC. **Br J Obstet Gynaecol** 1997 Feb;104(2):123-6. Comment on: Br J Obstet Gynaecol 1997 Feb;104(2):140-4. Comment in: Br J Obstet Gynaecol 1997 Jul;104(7):869. Comment in: Br J Obstet Gynaecol 1997 Aug;104(8):974.

Quality of life in gynecologic cancer survivors. Anderson B, et al. **CA Cancer J Clin** 1997 Jul-Aug;47(4):218-25

Managed care in gynecologic oncology. Cohen CJ, et al. **Curr Opin Obstet Gynecol** 1996 Aug;8(4):325-8 (13 ref.)

A study to determine the underlying reason for abnormal glandular cytology and the formulation of a management protocol [see comments] Leeson SC, et al. **Cytopathology** 1997 Feb;8(1):20-6. Comment in: Cytopathology 1997 Feb;8(1):27-30. Comment in: Cytopathology 1997 Jun;8(3):217.

Glandular abnormalities: dilemmas in cytological prediction and clinical management [comment] Waddell CA. **Cytopathology** 1997 Feb;8(1):27-30 (20 ref.). Comment on: Cytopathology 1997 Feb;8(1):20-6.

Influence of bioethics in investigation and treatment in oncology [editorial] Dexeus S, et al. **Eur J Gynaecol Oncol** 1996;17(4):255-6

Peripheral infusion ports for central venous access in patients with gynecologic malignancies. Cunningham MJ, et al. **Gynecol Oncol** 1996 Mar;60(3):397-9

Experience with the P.A.S.-PORT venous access device in patients with gynecologic malignancies. Deppe G, et al. **Gynecol Oncol** 1996 Sep;62(3):340-3

Arterial occlusion complicating treatment of gynecologic cancer: a case series. Levenback C, et al. **Gynecol Oncol** 1996 Oct;63(1):40-6

[Persistent and recurrent gynecologic malignant tumor treated within one year: analysis of 1,753 cases from 61 hospitals in China] Cao Z, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Jul;31(7):417-21 (Eng. Abstr.) **(Chi)**

[Surveillance of treated gynecological cancers (editorial)] Castaigne D, et al. **Presse Med** 1997 Apr 12;26(12):548-50 **(Fre)**

[Partner treatment in Bowen's papulosis?] Grussendorf-Conen EI. **Hautarzt** 1996 Oct;47(10):790 **(Ger)**

[Organ preserving and reconstructive procedures in gynaecological oncology. Proceedings of a workshop. Heidelberg, October 12-14, 1995] **Zentralbl Gynakol** 1996; 118(10):545-90 **(Ger)**

[Immunotherapy in gynecologic oncology] Krebs D. **Zentralbl Gynakol** 1996;118(10):578 **(Ger)**

ULTRASONOGRAPHY

Correlation of findings on transvaginal sonography with serum CA 125 levels. Troiano RN, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1587-90

Gray scale sonography, subjective evaluation of the color Doppler image and measurement of blood flow velocity for distinguishing benign and malignant tumors of suspected adnexal origin. Valentin L. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72(1):63-72

Diagnostic formula for the differentiation of adnexal tumors by transvaginal sonography. Prömpeler HJ, et al. **Obstet Gynecol** 1997 Mar;89(3):428-33

[Possibilities of laparoscopic ultrasound diagnosis] Sohn C, et al. **Zentralbl Gynakol** 1996;118(2):107-9 (Eng. Abstr.) **(Ger)**

[Ultrasound in the study of gynecologic neoplasms] Pepe F, et al. **Minerva Ginecol** 1996 Jul-Aug;48(7-8):303-20 (82 ref.) (Eng. Abstr.) **(Ita)**

ULTRASTRUCTURE

The many faces of smooth muscle neoplasms in a gynecological sampling: an ultrastructural study. Dickersin GR, et al. **Ultrastruct Pathol** 1997 Mar-Apr;21(2):109-34

URINE

Combined use of urinary UGP and serum CA 125 in the diagnosis of gynecological cancers. Plebani M, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3833-8

Urinary 8-hydroxy-2'-deoxyguanosine (8-OHdG) levels in women with or without gynecologic cancer. Yamamoto T, et al. **J Obstet Gynaecol Res** 1996 Aug;22(4):359-63

The clinical significance of calculated versus measured creatinine clearance in patients with gynecologic malignancy. Rao PS, et al. **South Med J** 1996 Oct; 89(10):967-70

VETERINARY

Tumours of the female genital system. Ribas JL, et al. **IARC Sci Publ** 1996;(126):281-305 (118 ref.)

VIROLOGY

The human papillomavirus and the lower genital tract [editorial] Allen DG, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):441-2

DNA analysis indicates patient-specific human papillomavirus type 16 strains in Bowen's disease on fingers and in archival samples from genital dysplasia. Forslund O, et al. **Br J Dermatol** 1997 May;136(5):678-82

Anogenital premalignant and malignant tumors (including Buschke-Löwenstein tumors). Grussendorf-Conen EI. **Clin Dermatol** 1997 May-Jun;15(3):377-88 (95 ref.)

Human papillomaviruses and multifocal genital neoplasia. Hording U, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):230-4

The role of human papillomavirus in anogenital cancer. Pfister H. **Obstet Gynecol Clin North Am** 1996 Sep; 23(3):579-95 (110 ref.)

Gynecological neoplasias in the patient with HIV infection. Rojansky N, et al. **Obstet Gynecol Surv** 1996 Nov; 51(11):679-83 (28 ref.)

The disruption of cell cycle checkpoints by papillomavirus oncoproteins contributes to anogenital neoplasia. Galloway DA, et al. **Semin Cancer Biol** 1996 Dec;7(6):309-15 (49 ref.)

GENITAL NEOPLASMS, MALE

Papillary cystadenoma located in the spermatic cord. Geenen RW, et al. **J Urol** 1997 Aug;158(2):546 (3 ref.)

Liposarcoma of the spermatic cord. Bulbul MA, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):333-5

Leiomyoma of the seminal vesicle. Ahmadzadeh M, et al. **Urol Int** 1996;57(4):252-4

Aggressive angiomyxoma of the scrotum. Sakata K, et al. **Urol Int** 1997;58(4):247-9 (12 ref.)

Primary osteosarcoma of the spermatic cord with synchronous bilateral renal cell carcinoma. Beiswanger JC, et al. **Urology** 1997 Jun;49(6):957-9 (14 ref.)

Intrascrotal hemangioendothelioma in infancy. Kolligian ME, et al. **Urology** 1997 Sep;50(3):456-8

[Cystic lymphangioma of the spermatic cord. Report of a new case] Jung JL, et al. **Prog Urol** 1996 Dec;6(6):948-9 (6 ref.) (Eng. Abstr.) **(Fre)**

[Epididymal adenomatoid tumor. Review of the national literature and report of a case] Romero Pérez P, et al. **Actas Urol Esp** 1996 Oct;20(9):839-43 (26 ref.) (Eng. Abstr.) **(Spa)**

[Atypical fibrous histiocytoma of the seminal vesicle] Noel Mederos Curbelo O, et al. **Arch Esp Urol** 1996 Oct; 49(8):872-5 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Disseminated lipogranulomas and sudden death from self-administered mineral oil injection. Rollins CE, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):100-3

Squamous cell carcinoma of the scrotum. Taniguchi S, et al. **Dermatology** 1996;193(3):253-4

CLASSIFICATION

International classification of rodent tumours. Part I: The rat. 8. Male genital system. **IARC Sci Publ** 1997;(122 Pt I-8):ix-x, 1-52

COMPLICATIONS

Re: Psoriasis: association with 2 rare cutaneous urological malignancies [letter] Cold CJ, et al. **J Urol** 1997 Oct; 158(4):1527-8

DIAGNOSIS

Clinical image. MRI of scrotal hemangioma. Aizenstein RI, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):888-9 (8 ref.)

Primary neuroblastoma presenting as a paratesticular tumor. Encinas A, et al. **J Pediatr Surg** 1997 Apr;32(4):624-6

Scrotal cystic lymphangioma: the misdiagnosed scrotal mass. Hurwitz RS, et al. **J Urol** 1997 Sep;158(3 Pt 2):1182-5 (8 ref.)

Masculinizing and feminizing syndromes caused by functioning tumors. Masiakos PT, et al. **Semin Pediatr Surg** 1997 Aug;6(3):147-55 (64 ref.)

[Urinary neopterin levels in patients with genitourinary tract malignancies] Asano T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jan;88(1):53-8 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Small-cell carcinoma of the seminal vesicle responding to chemotherapy [letter] Hoppin EC, et al. **Ann Oncol** 1997 May;8(5):503

A new mode of treatment of human papilloma virus associated anogenital lesions using a nonsteroid estrogen analogue. Schön HJ, et al. **Wien Klin Wochenschr** 1996; 108(2):45-7

[A comparative study of the effects of granisetron alone and a combination of granisetron plus steroids on CDDP-based combination chemotherapy-induced emesis--outcomes of a multicenter randomized comparative study using the central registration method. Nara Medical University Kytril Study Group] Ozono S, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):349-56 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Cancer of the male genital tract in Circumpolar Inuit. Prener A, et al. **Acta Oncol** 1996;35(5):589-93

Midline teratomas, mullerianosis, the multifariousness of gynaecological neoplasias, and the scrotum. Are they manifestations of a germ-soma barrier? Pansera F. **Med Hypotheses** 1997 Apr;48(4):361-4

ETIOLOGY

Skin disorders in organ transplant recipients. External anogenital lesions [editorial; comment] Penn I. **Arch Dermatol** 1997 Feb;133(2):221-3. Comment on: Arch Dermatol 1997 Feb;133(2):175-8.

Renal allograft recipients with high susceptibility to cutaneous malignancy have an increased prevalence of human papillomavirus DNA in skin tumours and a greater risk of anogenital malignancy. Arends MJ, et al. **Br J Cancer** 1997;75(5):722-8

Gonadotropins are essential modifier factors for gonadal tumor development in inhibin-deficient mice. Kumar TR, et al. **Endocrinology** 1996 Oct;137(10):4210-6
Environmental "endocrine disrupters" get a global look [news] Ziegler J. **J Natl Cancer Inst** 1997 Aug 20; 89(16):1184-7

PATHOLOGY

Genital angiomyofibroblastoma. Comparison with aggressive angiomyxoma and other myxoid neoplasms of skin and soft tissue. Ockner DM, et al. **Am J Clin Pathol** 1997 Jan; 107(1):36-44
Disorders of male genitalia. Clearihan L. **Aust Fam Physician** 1996 Apr;25(4):584-5
Angiomyofibroblastoma of the spermatic cord. Siddiqui MT, et al. **Br J Urol** 1997 Mar;79(3):475-6
Leiomyoma of the scrotum. Ohtake N, et al. **Dermatology** 1997;194(3):299-301
Two cases of intrascrotal liposarcoma. Katsuno S, et al. **Hinyokika Kiyo** 1996 Oct;42(10):751-4
Malignant mesenchymoma of the spermatic cord with a brief review of the literature. Inagaki T, et al. **Int J Urol** 1997 Mar;4(2):225-8 (13 ref.)
Liposarcoma of the spermatic cord: a report of two cases. Anjum MI, et al. **Int Urol Nephrol** 1997;29(2):227-32
Smooth-muscle hamartoma of the tunica dartos of the scrotum: report of a case. Quinn TR, et al. **J Cutan Pathol** 1997 May;24(5):322-6
Chondroid syringoma of the scrotum. Poku JW, et al. **J Int Med Res** 1996 Nov-Dec;24(6):482-6
Giant scrotal lipomatosis. Lander EB, et al. **J Urol** 1996 Nov; 156(5):1773
Leiomyoma of the epididymis. Case report. Ventura T, et al. **Pathologica** 1996 Jun;88(3):202-3
Combined myxoid liposarcoma and angiolipoma of the spermatic cord. Ikinger U, et al. **Urology** 1997 Apr; 49(4):635-7 (15 ref.)
Seminal vesicle biopsy: accuracy and implications for staging of prostate cancer. Linzer DG, et al. **Urology** 1996 Nov; 48(5):757-61
[Liposarcoma of the spermatic cord] Marotta J, et al. **Acta Urol Belg** 1996 Sep;64(3):37-41 (Eng. Abstr.) **(Fre)**
[Hemo-lymphangioma of the scrotum: a case report] Koizumi S, et al. **Hinyokika Kiyo** 1997 Apr;43(4):307-9 (Eng. Abstr.) **(Jpn)**
[A case of malignant mesothelioma associated intrascrotal mass] Wakasugi E, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Mar;88(3):443-6 (21 ref.) (Eng. Abstr.) **(Jpn)**
[Liposarcoma of the spermatic cord] Gurariĭ LL. **Urol Nefrol (Mosk)** 1996 Nov-Dec;(6):48-9 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Malignant mesenchymoma of the spermatic cord with a brief review of the literature. Inagaki T, et al. **Int J Urol** 1997 Mar;4(2):225-8 (13 ref.)

SECONDARY

Correlation of pretherapy prostate cancer characteristics with seminal vesicle invasion in radical prostatectomy specimens. Pisansky TM, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):585-91
Metastasizing eccrine porocarcinoma: report of a case and review of the literature. Huet P, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 2):860-4 (55 ref.)
Metastatic tumor of the spermatic cord from a primary silent colorectal adenocarcinoma. Melone F, et al. **Minerva Urol Nefrol** 1997 Mar;49(1):57-61
Metachronous renal cell carcinoma metastases to spermatic cord and penis. Fallick ML, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):299-300
Seminal vesicle biopsy: accuracy and implications for staging of prostate cancer. Linzer DG, et al. **Urology** 1996 Nov; 48(5):757-61
[Metastatic tumor of spermatic cord and tunica vaginalis testis from gastric cancer: a case report] Kageyama Y, et al. **Hinyokika Kiyo** 1997 Jun;43(6):429-31 (Eng. Abstr.) **(Jpn)**

SURGERY

Intrascrotal chondroid syringoma. Miyakawa A, et al. **Br J Urol** 1997 Feb;79(2):293-5
[Leiomyosarcoma of the spermatic cord. A case report with review of the literature] Wiebel T, et al. **Urologe A** 1996 Jan;35(1):54-6 (21 ref.) (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

[Unusual case of leiomyoma of the spermatic cord studied with ultrasonography] Battaglia F, et al. **Radiol Med (Torino)** 1996 Oct;92(4):498-9 **(Ita)**

VIROLOGY

The disruption of cell cycle checkpoints by papillomavirus oncoproteins contributes to anogenital neoplasia. Galloway DA, et al. **Semin Cancer Biol** 1996 Dec;7(6):309-15 (49 ref.)

GENITAL WARTS see **CONDYLOMATA ACUMINATA**

GENITALIA

Burns to the genitals and the perineum in children. Michielsen D, et al. **Br J Urol** 1996 Dec;78(6):940-1
Assessment of androgen receptor function in genital skin fibroblasts using a recombinant adenovirus to deliver an androgen-responsive reporter gene [published erratum appears in J Clin Endocrinol Metab 1997 Aug;82(8):2670] McPhaul MJ, et al. **J Clin Endocrinol Metab** 1997 Jun; 82(6):1944-8

ABNORMALITIES

Vestibular abnormalities in charge association. Murofushi T, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):129-34
The infant with ambiguous genitalia. Lee MM, et al. **Curr Ther Endocrinol Metab** 1997;6:216-23 (5 ref.)
Management of ambiguous genitalia in pseudohermaphrodites: new perspectives on vaginal dilation. Costa EM, et al. **Fertil Steril** 1997 Feb; 67(2):229-32
An autosomal dominant syndrome of renal and anogenital malformations with syndactyly. Green AJ, et al. **J Med Genet** 1996 Jul;33(7):594-6
Regulation of renal EGF receptor expression is normal in Denys-Drash syndrome. Vicanek C, et al. **Kidney Int** 1997 Sep;52(3):614-9
Mutations in human TBX3 alter limb, apocrine and genital development in ulnar-mammary syndrome. Bamshad M, et al. **Nat Genet** 1997 Jul;16(3):311-5
Prenatal ultrasound abnormalities in a patient with generalized neurofibromatosis type 1. Drouin V, et al. **Neuropediatrics** 1997 Apr;28(2):120-1
Statistical evidence for shared transient causes of anatomically distinct birth defects. Weinberg CR, et al. **Stat Med** 1996 Oct 15;15(19):2029-36
45,X/46,XY mosaicism: the role of ultrasound in prenatal diagnosis and counselling. Lazebnik N, et al. **Ultrasound Obstet Gynecol** 1996 Nov;8(5):325-8

ANATOMY & HISTOLOGY

Combination of physiological and anatomical methods for studying extraocular photoreceptors on the genitalia of the butterfly, Papilio xuthus. Arikawa K, et al. **J Neurosci Methods** 1996 Oct 21;69(1):75-82

CYTOLOGY

Human genital melanocytes as androgen target cells. Tadokoro T, et al. **J Invest Dermatol** 1997 Oct;109(4):513-7

DRUG EFFECTS

Effect of neonatal treatment with monoclonal antibody to thyrotropin (TSH) receptor on the thyroxin (T4) level and certain parameters of the internal genital organs of adult rats. Karabélyos C, et al. **Acta Physiol Hung** 1996; 84(1):25-32
In utero and lactational exposure to 2,3,7,8-tetrachlorodibenzo-rho-dioxin: effects on development of the male and female reproductive system of the mouse. Theobald HM, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):124-35
[Structural changes in the genital system of nematodes of the suborder Strongylata after exposure to anthelmintics] Bogoiavlenskiĭ IuK. **Med Parazitol (Mosk)** 1997 Jan-Mar; (1):58-61 (4 ref.) **(Rus)**

EMBRYOLOGY

Sexual differentiation of the urogenital system of the fetal and neonatal tammar wallaby, Macropus eugenii. Renfree MB, et al. **Anat Embryol (Berl)** 1996 Aug;194(2):111-34
Expression and regulation of steroid 5 alpha-reductase in the genital tubercle of the fetal rat. Tian H, et al. **Dev Dyn** 1997 May;209(1):117-26
Endocrine disruptors and reproductive development: a weight-of-evidence overview. Cooper RL, et al. **J Endocrinol** 1997 Feb;152(2):159-66 (71 ref.)
Expression patterns of developmental genes reveal segment and parasegment organization of D. melanogaster genital discs. Freeland DE, et al. **Mech Dev** 1996 May; 56(1-2):61-72

GROWTH & DEVELOPMENT

Sexual differentiation of the urogenital system of the fetal and neonatal tammar wallaby, Macropus eugenii. Renfree MB, et al. **Anat Embryol (Berl)** 1996 Aug;194(2):111-34

IMMUNOLOGY

[Immunologic response against spermatozoa in the human genital tract] Domagała A, et al. **Ginekol Pol** 1996 Jun; 67(6):304-8 (26 ref.) (Eng. Abstr.) **(Pol)**

INNERVATION

Retroperitoneal endoscopic neurectomy for nerve entrapment after hernia repair [see comments] Krähenbühl L, et al. **Br J Surg** 1997 Feb;84(2):216-9. Comment in: Br J Surg 1997 Jul;84(7):1026; discussion 1026-7.
Preservation of pudendal afferents in sacral rhizotomies. Huang JC, et al. **Neurosurgery** 1997 Aug;41(2):411-5

METABOLISM

Expression of Sry-related genes in the developing genital ridge/mesonephros of the chick embryo. McBride D, et al. **J Reprod Fertil** 1997 Jan;109(1):59-63

MICROBIOLOGY

Leptospira interrogans in the genital tract of sheep. Research on ewes and rams experimentally infected with serovar hardjo (hardjobovis). Farina R, et al. **New Microbiol** 1996 Jul;19(3):235-42

PATHOLOGY

Gonadal dysgenesis: associations between clinical features and sex of rearing. Cameron FJ, et al. **Endocr J** 1997 Feb; 44(1):95-104
Phenotypic abnormalities in long-term surviving cystic fibrosis mice. Kent G, et al. **Pediatr Res** 1996 Aug; 40(2):233-41

PHYSIOLOGY

Combination of physiological and anatomical methods for studying extraocular photoreceptors on the genitalia of the butterfly, Papilio xuthus. Arikawa K, et al. **J Neurosci Methods** 1996 Oct 21;69(1):75-82

SURGERY

Management of ambiguous genitalia in pseudohermaphrodites: new perspectives on vaginal dilation. Costa EM, et al. **Fertil Steril** 1997 Feb; 67(2):229-32
Caudal epidural butorphanol plus bupivacaine versus bupivacaine in pediatric outpatient genitourinary procedures. Lawhorn CD, et al. **J Clin Anesth** 1997 Mar; 9(2):103-8

VIROLOGY

Cytomegalovirus infection in the genital tract of HIV-seropositive women [letter] Wales NM, et al. **AIDS** 1996 Jun;10(7):802-3
Is Kaposi's sarcoma--associated herpesvirus ubiquitous in urogenital and prostate tissues? Tasaka T, et al. **Blood** 1997 Mar 1;89(5):1686-9
Fiber genes of adenoviruses with tropism for the eye and the genital tract. Arnberg N, et al. **Virology** 1997 Jan 6; 227(1):239-44

GENITALIA, FEMALE

see related

HYSTEROSALPINGOGRAPHY

The genital examination in suspected child sexual abuse. A diagnostic dilemma. Navratil F. **Ann N Y Acad Sci** 1997 Jun 17;816:414-21
Forensic examination of adolescent female genitalia: the Foley catheter technique. Starling SP, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):102-3
Castration anxiety or feminine genital anxiety? Dorsey D. **J Am Psychoanal Assoc** 1996;44 Suppl:283-302
Primary femininity and female genital anxiety. Richards AK. **J Am Psychoanal Assoc** 1996;44 Suppl:261-81
Pediatric genital exam. Brown MS. **Nurse Pract** 1997 Jul; 22(7):160

ABNORMALITIES

Hydrometrocolpos as a neonatal manifestation of the Bardet-Biedl syndrome [letter; comment] Mehrotra N, et al. **Am J Med Genet** 1997 Mar 17;69(2):220. Comment on: Am J Med Genet 1995 Jan 30;55(3):276-8.
Partial trisomy 10q: further delineation of the clinical manifestations involving the segment 10q23-->10q24. Halpern GJ, et al. **Ann Genet** 1996;39(3):181-3
The anatomy and reconstruction of the adult female genitalia in classical exstrophy. Woodhouse CR, et al. **Br J Urol** 1997 Apr;79(4):618-22
A case of Robinow syndrome accompanied by partial growth hormone insufficiency treated with growth hormone. Kawai M, et al. **Horm Res** 1997;48(1):41-3
Pudendal-thigh flap vaginoplasty in the reconstruction of genital anomalies. Joseph VT. **J Pediatr Surg** 1997 Jan; 32(1):62-5
Ambiguous genitalia in infant exposed to tamoxifen in utero [letter] Tewari K, et al. **Lancet** 1997 Jul 19;350(9072):183
Kaposi sarcoma and gonadoblastoma dysgerminoma with gonadal dysgenesis following cadaveric renal transplantation. Yeğenağa-Bakioğlu I, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1750-2
Syndromic forms of hydrometrocolpos [letter; comment] Fryns JP. **Prenat Diagn** 1997 Jan;17(1):87. Comment on: Prenat Diagn 1996 Jun;16(6):572-6.
Late prenatal ultrasound features of hydrometrocolpos secondary to cloacal anomaly: case reports and review of the literature. Odibo AO, et al. **Ultrasound Obstet Gynecol** 1997 Jun;9(6):419-21 (6 ref.)
[Cystic tumefaction in the minor pelvis--the agenesis-dysplasia syndrome (case report)] Pavlović S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:242-3 (Eng. Abstr.) **(Scc)**

GENITALIA, FEMALE

ANATOMY & HISTOLOGY

Striated muscles and scent glands associated with the vaginal tract of the rabbit. Martínez-Gómez M, et al. **Anat Rec** 1997 Apr;247(4):486–95

Physical examination of the prepubertal girl. Hairston L. **Clin Obstet Gynecol** 1997 Mar;40(1):127–34 (10 ref.)

Surgical anatomy and dissection techniques for laparoscopic surgery. Kadar N. **Curr Opin Obstet Gynecol** 1996 Aug; 8(4):266–77 (9 ref.)

[Pelvic ultrasonography in the adolescent] Ardaens Y. **Contracept Fertil Sex** 1996 Nov;24(11):811–5 (6 ref.) **(Fre)**

BLOOD SUPPLY

Lactation and pregnancy effects on blood flow to mammary and reproductive systems in heat-stressed rabbits. Lublin A, et al. **Comp Biochem Physiol A Physiol** 1996 Dec; 115(4):277–85

Female genital tract giant cell arteritis associated with occult temporal arteritis. Inanç M, et al. **J Rheumatol** 1996 Feb; 23(2):393–5

Critical components of the female reproductive pathway are suppressed by the angiogenesis inhibitor AGM-1470. Klauber N, et al. **Nat Med** 1997 Apr;3(4):443–6

[Iatrogenic vascular lesions in laparoscopic interventions in gynecology] Fruhwirth J, et al. **Zentralbl Gynakol** 1997; 119(6):265–8 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Detection of human defensin 5 in reproductive tissues. Svinarich DM, et al. **Am J Obstet Gynecol** 1997 Feb; 176(2):470–5

Role of PACAP in the female reproductive organs. Fahrenkrug J, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:394–407; discussion 407–9

DNA aneuploidy in benign tumors and normal tissues of the female genital tract. Lai CH, et al. **Int J Gynecol Pathol** 1996 Jan;15(1):63–8

PreproVIP-derived peptides in the human female genital tract: expression and biological function. Bredkjoer HE, et al. **Neuropeptides** 1997 Jun;31(3):209–15

Estrogen receptors in the cardiovascular system. Perrot-Applanat M. **Steroids** 1996 Apr;61(4):212–5

CYTOLOGY

Localization and enumeration of T and B lymphocytes in the reproductive tract of laying hens. Withanage GS, et al. **Poult Sci** 1997 May;76(5):671–6

DRUG EFFECTS

Potentiation of diethylstilbestrol-induced alterations in the female mouse reproductive tract by transforming growth factor-alpha transgene expression. Gray K, et al. **Mol Carcinog** 1996 Nov;17(3):163–73

Early onset of reproductive function in normal female mice treated with leptin. Chehab FF, et al. **Science** 1997 Jan 3;275(5296):88–90

Tamoxifen and endometrial cancer: tamoxifen effects on the human female genital tract. Cohen CJ. **Semin Oncol** 1997 Feb;24(1 Suppl 1):S1-55–S1-64 (61 ref.)

EMBRYOLOGY

Development of the genital peritoneal folds in sheep. Martin E, et al. **Anat Histol Embryol** 1996 Sep;25(3):187–95

Activation of androgen receptor in epidermal growth factor modulation of fetal mouse sexual differentiation. Gupta C, et al. **Mol Cell Endocrinol** 1996 Oct 14;123(1):89–95

ENZYMOLOGY

Distribution of immunoreactive 2',5'-oligoadenylate synthetase in mouse reproductive organs. Asada-Kubota M, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):349–54

Preputial sebocyte 5alpha-reductase isoform specificity. Deplewski D, et al. **Endocrinology** 1997 Oct; 138(10):4416–20

Expression of manganese superoxide dismutase mRNA in reproductive organs during the ovulatory process and the estrous cycle of the rat. Nomura T, et al. **Histochem Cell Biol** 1996 Jan;105(1):1–6

IMMUNOLOGY

The distribution of immunocompetent cells in the genital tract of HIV-positive women. Olaitan A, et al. **AIDS** 1996 Jun;10(7):759–64

Immunohistochemical detection and distribution of the 1,25-dihydroxyvitamin D3 receptor in rat reproductive tissues. Johnson JA, et al. **Histochem Cell Biol** 1996 Jan; 105(1):7–15

Comparison of the oral, rectal, and vaginal immunization routes for induction of antibodies in rectal and genital tract secretions of women. Kozlowski PA, et al. **Infect Immun** 1997 Apr;65(4):1387–94

Quantitation of HIV-1-specific IgG, IgA, and IgM antibodies in human genital tract secretions. Haimovici F, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jul 1;15(3):185–91

CD3+ CD8+ CTL activity within the human female reproductive tract: influence of stage of the menstrual cycle and menopause. White HD, et al. **J Immunol** 1997 Mar 15;158(6):3017–27

HIV vaccine and genital secretory immune response. Stefanache-Guihard AI. **Rom J Virol** 1995 Jan-Jun; 46(1-2):85–98 (24 ref.)

[The differentiated correction of the local immunity of the reproductive tract by using lysozyme and immunoglobulins in pregnant women with a genital infection] Dolgushin II, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul-Aug; (4):111–5 (Eng. Abstr.) **(Rus)**

INJURIES

Patterns of genital injury in female sexual assault victims. Slaughter L, et al. **Am J Obstet Gynecol** 1997 Mar; 176(3):609–16

Female victims of rape and their genital injuries. Bowyer L, et al. **Br J Obstet Gynaecol** 1997 May;104(5):617–20

Burns of the female genitalia and perineum. Weiler-Mithoff EM, et al. **Burns** 1996 Aug;22(5):390–5 (28 ref.)

Genital trauma. Pokorny SF. **Clin Obstet Gynecol** 1997 Mar; 40(1):219–25 (5 ref.)

Genital tract burns during rollerball endometrial coagulation. Vilos GA, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb; 4(2):273–6

Opioid-induced rigidity after intravenous fentanyl. Viscomi CM, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):822–4

Coital trauma [letter; comment] Jarvis R. **Postgrad Med J** 1997 Mar;73(857):190. Comment on: Postgrad Med J 1996 Nov;72(853):653–6.

[Ano-genital injuries in female victims of sexual assault] Kindermann G, et al. **Swiss Surg** 1996;(1):10–3 (Eng. Abstr.) **(Ger)**

INNERVATION

Laparoscopic treatment of genitofemoral neuralgia. Perry CP. **J Am Assoc Gynecol Laparosc** 1997 Feb;4(2):231–4

Pituitary adenylate cyclase activating polypeptide innervation of the rat female reproductive tract and the associated paracervical ganglia: effect of capsaicin. Fahrenkrug J, et al. **Neuroscience** 1996 Aug;73(4):1049–60

METABOLISM

A potent activator of HIV-1 replication is present in the genital tract of a subset of HIV-1-infected and uninfected women. Spear GT, et al. **AIDS** 1997 Sep;11(11):1319–26

Human complement regulator expression by the normal female reproductive tract. Oglesby TJ, et al. **Anat Rec** 1996 Sep;246(1):78–86

Mucin genes expressed by human female reproductive tract epithelia. Gipson IK, et al. **Biol Reprod** 1997 Apr; 56(4):999–1011

Differential expression of two beta-galactoside-binding lectins in the reproductive tracts of pregnant mice. Phillips B, et al. **Biol Reprod** 1996 Sep;55(3):548–58

Immunohistochemical localization of testin in the female reproductive system of the rat is consistent with its involvement in the turnover of specialized junctional complexes. Zhu L, et al. **Biol Reprod** 1997 May; 56(5):1330–5

Gene expression of aphrodisin in female hamster genital tract segments. Kruhoffer M, et al. **Cell Tissue Res** 1997 Jan; 287(1):153–60

Expression of syndecan-1 in female reproductive tract tissues and cultured keratinocytes. Inki P. **Mol Hum Reprod** 1997 Apr;3(4):299–305

Neuropeptide Y1 receptors in the rat genital tract. Kopp J, et al. **Regul Pept** 1997 Jun 18;70(2-3):149–60

MICROBIOLOGY

The role of Ureaplasma urealyticum in adverse pregnancy outcome. Knox CL, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):45–51

Isolation of presumptive Streptobacillus moniliformis from abscesses associated with the female genital tract. Pins MR, et al. **Clin Infect Dis** 1996 Mar;22(3):471–6

Recent advances in antibiotic regimens for the treatment of obstetric-gynecologic infections. Zambrano D. **Clin Ther** 1996 Mar-Apr;18(2):214–27; discussion 213 (72 ref.)

High rates of genital mycoplasma infection in the highlands of Papua New Guinea determined both by culture and by a commercial detection kit. Clegg A, et al. **J Clin Microbiol** 1997 Jan;35(1):197–200

Detection of Neisseria gonorrhoeae from air-dried genital samples by single-tube nested PCR. Herrmann B, et al. **J Clin Microbiol** 1996 Oct;34(10):2548–51

Vulval swabs as alternative specimens for ligase chain reaction detection of genital chlamydial infection in women. Stary A, et al. **J Clin Microbiol** 1997 Apr; 35(4):836–8

Comparison of ligase chain reaction and culture for detection of Neisseria gonorrhoeae in genital and extragenital specimens. Stary A, et al. **J Clin Microbiol** 1997 Jan; 35(1):239–42

Does Chlamydia trachomatis MoPn enter a microbiologically-inapparent state during experimental infection of the mouse genital tract? Beale AS. **Microb Pathog** 1997 Feb;22(2):99–112

The accuracy of late antenatal screening cultures in predicting genital group B streptococcal colonization at delivery. Yancey MK, et al. **Obstet Gynecol** 1996 Nov; 88(5):811–5

[Chlamydia trachomatis and concomitant flora in the internal genital organs of women without clinical symptoms of infection] Elias M, et al. **Ginekol Pol** 1996 May;67(5):264–9 (Eng. Abstr.) **(Pol)**

[Diagnosis of urogenital chlamydiosis using rapid immunoenzyme method: Abbott TestPack Chlamydia] Nazarova EK, et al. **Klin Lab Diagn** 1996 Sep-Oct;(5):39–41 (Eng. Abstr.) **(Rus)**

[The antilysozymal activity and species characteristics of the microflora of the female reproductive tract during pregnancy] Cherkasov SV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May-Jun; (3):88–90 (Eng. Abstr.) **(Rus)**

PARASITOLOGY

Schistosomiasis in women: manifestations in the upper reproductive tract. Helling-Giese G, et al. **Acta Trop** 1996 Dec 30;62(4):225–38 (60 ref.)

Schistosoma haematobium induced lesions in the female genital tract in a village in Madagascar. Leutscher P, et al. **Acta Trop** 1997 Jun 24;66(1):27–33

PATHOLOGY

Adenoma of anogenital mammary-like glands. Donati P, et al. **Am J Dermatopathol** 1996 Feb;18(1):73–6

Chronic bullous disease of childhood--another cause for potential misdiagnosis of sexual abuse? Coleman H, et al. **Br J Gen Pract** 1997 Aug;47(421):507–8

The female genital tract. Longacre TA, et al. **Pathology (Phila)** 1996;3(2):427–92 (26 ref.)

Examination for sexual abuse in prepubertal children: an update [published erratum appears in Pediatr Ann 1997 Jul;26(7):437] Botash AS. **Pediatr Ann** 1997 May; 26(5):312–20

[Special issue on gynecologic pathology (editorial)] Guettier C. **Ann Pathol** 1996 Nov;16(5):313–4 **(Fre)**

PHYSIOLOGY

Role of PACAP in the female reproductive organs. Fahrenkrug J, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:394–407; discussion 407–9

Postestrus anogenital swelling in female barbary macaques. The larger, the better? Wallner B, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:590–2

Heat-shock protein 27 (HSP27) and its role in female reproductive organs. Devaja O, et al. **Eur J Gynaecol Oncol** 1997;18(1):16–22 (126 ref.)

Roles of inhibins, activins, and follistatin in the female reproductive system. Knight PG. **Front Neuroendocrinol** 1996 Oct;17(4):476–509 (231 ref.)

Potentiation of diethylstilbestrol-induced alterations in the female mouse reproductive tract by transforming growth factor-alpha transgene expression. Gray K, et al. **Mol Carcinog** 1996 Nov;17(3):163–73

[The functional morphology of the Langerhans cells in the female reproductive tract] Bykov VL. **Morfologiia** 1997; 111(2):7–16 (109 ref.) (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Carcinoma of the cervix: analysis of complications after primary external beam radiation and Ir-192 HDR brachytherapy. Kapp KS, et al. **Radiother Oncol** 1997 Feb; 42(2):143–53

RADIOGRAPHY

Is hysterosalpingography an important tool in predicting fertility outcome? Mol BW, et al. **Fertil Steril** 1997 Apr; 67(4):663–9

SURGERY

Intra-ocular pressure changes during gynaecological laparoscopy. Lentschener C, et al. **Anaesthesia** 1996 Dec; 51(12):1106–8

Laryngeal mask airway and the incidence of regurgitation during gynecological laparoscopies. Bapat PP, et al. **Anesth Analg** 1997 Jul;85(1):139–43

Intravenous dolasetron for the prevention of postoperative nausea and vomiting after outpatient laparoscopic gynecologic surgery. Graczyk SG, et al. **Anesth Analg** 1997 Feb;84(2):325–30

Optimal dose of granisetron for prophylaxis against postoperative emesis after gynecological surgery. Mikawa K, et al. **Anesth Analg** 1997 Sep;85(3):652–6

Recovery after propofol with and without intraoperative fentanyl in patients undergoing ambulatory gynecologic laparoscopy. Sukhani R, et al. **Anesth Analg** 1996 Nov; 83(5):975–81

Vulval varicosities and labial reduction. Fliegner JR. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):129–30

The anatomy and reconstruction of the adult female genitalia in classical exstrophy. Woodhouse CR, et al. **Br J Urol** 1997 Apr;79(4):618–22

Anaesthesia during laparoscopic gynaecological surgery: a comparison between desflurane and isoflurane. Jakobsson J, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):148–52

Laparoscopic implant of Gore-Tex surgical membrane. Crain J, et al. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4):417–20

Perioperative pain management. Levy BS, et al.

J Am Assoc Gynecol Laparosc 1995 Aug;2(4):381–7 (24 ref.)
Twenty–two years of office and outpatient laparoscopy: current techniques and why I chose them. Penfield AJ. **J Am Assoc Gynecol Laparosc** 1995 May;2(3):365–8
Intraoperative hemodilution is more cost–effective than preoperative autologous donation for patients undergoing procedures associated with a low risk for transfusion. Rosenblatt MA, et al. **J Clin Anesth** 1997 Feb;9(1):26–9
Ureteral injuries during gynecologic procedures. Mariotti G, et al. **Minerva Urol Nefrol** 1997 Jun;49(2):95–8 (23 ref.)
The female genital tract. Longacre TA, et al. **Pathology (Phila)** 1996;3(2):427–92 (26 ref.)
[The preemptive action of ketoprofen. Randomized, double–blind study with gynecologic operations] Likar R, et al. **Anaesthesist** 1997 Mar;46(3):186–90 (Eng. Abstr.) **(Ger)**
[Interdisciplinary concepts of surgical sex transformation in transsexual patients] Sohn M, et al. **Urologe A** 1996 Jan; 35(1):26–34 (Eng. Abstr.) **(Ger)**
[Incidence distribution of postoperative adhesions after using different coagulation techniques. An animal experiment study] Mees C, et al. **Zentralbl Gynakol** 1996;118(9):508–14 (Eng. Abstr.) **(Ger)**
[Tramadol chlorhydrate in the management of gyneco–obstetric pain] López Rosales C, et al. **Ginecol Obstet Mex** 1997 Apr;65:152–4 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Pubertal maturation of internal genitalia: authors' reply [letter] Holm K, et al. **Ultrasound Obstet Gynecol** 1995 Dec; 6(6):452–3
[Pelvic ultrasonography in the adolescent] Ardaens Y. **Contracept Fertil Sex** 1996 Nov;24(11):811–5 (6 ref.) **(Fre)**

ULTRASTRUCTURE

Toxocara canis (Nematoda:Ascaridae): the fine structure of the oviduct, oviduct–uterine junction and uterus. Bruňanská M. **Folia Parasitol (Praha)** 1997;44(1):55–61
Ultrastructural features of the female reproductive system and female gametes of Nectonema munidae Brinkmann 1930 (Nematomorpha). Schmidt–Rhaesa A. **Parasitol Res** 1997;83(1):77–81

VIROLOGY

A potent activator of HIV–1 replication is present in the genital tract of a subset of HIV–1–infected and uninfected women. Spear GT, et al. **AIDS** 1997 Sep;11(11):1319–26
Human immunodeficiency virus–1 shedding in the genital tract of a female long–term nonprogressor without detectable plasma human immunodeficiency virus ribonucleic acid [letter] Uvin SC, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):490–1
Detection of human papillomavirus DNA in genital lesions by enzymatic in situ hybridization with Fast Red and laser scanning confocal microscopy. Lizard G, et al. **Histochem J** 1997 Jul;29(7):545–54
Detection of adeno–associated virus type 2 sequences in the human genital tract. Friedman–Einat M, et al. **J Clin Microbiol** 1997 Jan;35(1):71–8
Evaluation of a quantitative competitive PCR assay for measuring herpes simplex virus DNA content in genital tract secretions. Hobson A, et al. **J Clin Microbiol** 1997 Mar;35(3):548–52
Human immunodeficiency virus in plasma and genital secretions during the menstrual cycle. Goulston C, et al. **J Infect Dis** 1996 Oct;174(4):858–61
Genital shedding of human immunodeficiency virus type 1 DNA during pregnancy: association with immunosuppression, abnormal cervical or vaginal discharge, and severe vitamin A deficiency. John GC, et al. **J Infect Dis** 1997 Jan;175(1):57–62
Genital papillomavirus in Greek women with high–grade cervical intraepithelial neoplasia and cervical carcinoma. Labropoulou V, et al. **J Med Virol** 1996 Jan;48(1):80–7
Human immunodeficiency virus type 1 infection of cells and tissues from the upper and lower human female reproductive tract. Howell AL, et al. **J Virol** 1997 May; 71(5):3498–506

GENITALIA, MALE

A case of triple extramammary Paget's disease. Koseki S, et al. **J Dermatol** 1997 Aug;24(8):535–8 (8 ref.)
On background factors of male genital self–mutilation. Nakaya M. **Psychopathology** 1996;29(4):242–8

ABNORMALITIES

CHARGE association with congenital glaucoma due to maldevelopment of the anterior chamber angle. Katai N, et al. **Acta Ophthalmol Scand** 1997 Jun;75(3):322–4
Limb defects and congenital anomalies of the genitalia in an infant with homozygous alpha–thalassemia. Abuelo DN, et al. **Am J Med Genet** 1997 Jan 20;68(2):158–61 (20 ref.)
Cloning and characterization of an alternatively spliced gene in proximal Xq28 deleted in two patients with intersexual genitalia and myotubular myopathy. Laporte J, et al. **Genomics** 1997 May 1;41(3):458–62
Antisperm antibodies in prepubertal boys treated with chemotherapy for malignant or non–malignant diseases and in boys with genital tract abnormalities. Sinisi AA, et al. **Int J Androl** 1997 Feb;20(1):23–8
A duplication of distal Xp associated with hypogonadotrophic hypogonadism, hypoplastic external genitalia, mental retardation, and multiple congenital abnormalities. Telvi L, et al. **J Med Genet** 1996 Sep; 33(9):767–71
Redefining the genital abnormality in the Robinow syndrome. –004 Wilcox DT, et al. **J Urol** 1997 Jun; 157(6):2312–4
Effects of finasteride, a type 2 5–alpha reductase inhibitor, on fetal development in the rhesus monkey (Macaca mulatta). Prahalada S, et al. **Teratology** 1997 Feb; 55(2):119–31
Effects of developmental exposure to indole–3–carbinol or 2,3,7,8–tetrachlorodibenzo–p–dioxin on reproductive potential of male rat offspring. Wilker C, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):68–75
Incomplete gonadal dysgenesis. Sheth FJ, et al. **Urol Int** 1996; 56(1):57–60
[Malformations of male internal genitalia originating from the Wolffian duct] Mure PY, et al. **Arch Pediatr** 1997 Feb; 4(2):163–9 (34 ref.) (Eng. Abstr.) **(Fre)**
[Remnants of the Mullerian duct. Case report based on a complex urogenital abnormality] Krautschick A, et al. **Urologe A** 1997 Jan;36(1):77–80 (Eng. Abstr.) **(Ger)**
[Obstructive azoospermia. Instrumental diagnosis: echography and endoscopy] Ferrando U, et al. **Arch Ital Urol Androl** 1996 Dec;68(5):363–6 (Eng. Abstr.) **(Ita)**

ANATOMY & HISTOLOGY

Quantitative microscopic changes in the mole rat's accessory sex organs during an annual cycle. Gottreich A, et al. **Anat Rec** 1996 Oct;246(2):231–7
Genital asymmetry in men. Bogaert AF. **Hum Reprod** 1997 Jan;12(1):68–72
Normal MR anatomy and techniques for imaging of the male pelvis. Banson ML. **Magn Reson Imaging Clin N Am** 1996 Aug;4(3):481–96 (27 ref.)
Anatomy and physiology of the bull's reproductive system. Fayrer–Hosken R. **Vet Clin North Am Food Anim Pract** 1997 Jul;13(2):195–202 (7 ref.)

CHEMISTRY

Detection of coagulating gland renin by hybridohistochemistry. Kon Y, et al. **Anat Histol Embryol** 1996 Dec;25(4):289–94
Oxytocin and oxytocin receptor expression in reproductive tissues of the male marmoset monkey. Einspanier A, et al. **Biol Reprod** 1997 Feb;56(2):416–22
Immunolocalization of receptors for androgen and estrogen in male caprine reproductive tissues: unique distribution of estrogen receptors in efferent ductule epithelium. Goyal HO, et al. **Biol Reprod** 1997 Jan;56(1):90–101
Distribution and subcellular localization of a lysosome–associated protein in human genital organs. Aumüller G, et al. **Cell Tissue Res** 1997 Feb;287(2):335–42
Molecular cloning of a Schistosoma mansoni protein expressed in the gynecophoral canal of male worms. Bostic JR, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):79–89

CYTOLOGY

m–Calpain activation/depletion is associated with androgen–induced reduction of protein kinase C and proliferation of male accessory sex organ smooth muscle cells. Gebrosky N, et al. **J Urol** 1997 Feb;157(2):662–8

DRUG EFFECTS

Effects of anordiol, an antiestrogen, on the reproductive organs of the male rat. Vanage GR, et al. **Arch Androl** 1997 Jan–Feb;38(1):13–21
Effects of 3,6–dimethylpyrazine–2–thiol on reproductive and accessory reproductive organs in male rats. Yamada K, et al. **Biol Pharm Bull** 1996 Mar;19(3):360–3
Chronic administration of 4–tert–octylphenol to adult male rats causes shrinkage of the testes and male accessory sex organs, disrupts spermatogenesis, and increases the incidence of sperm deformities. Boockfor FR, et al. **Biol Reprod** 1997 Aug;57(2):267–77
Effects of short–term exposure to hydroxyflutamide in utero on the development of the reproductive tract in male mice. Silversides DW, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1582–8
Lithium and male sexual function in affective patients. Aizenberg D, et al. **Clin Neuropharmacol** 1996 Dec; 19(6):515–9
Male reproductive health and environmental xenoestrogens [see comments] Toppari J, et al. **Environ Health Perspect** 1996 Aug;104 Suppl 4:741–803 (323 ref.). Comment in: Environ Health Perspect 1997 Feb;105(2):162–3.
Studies of Epilobium angustifolium extracts on growth of accessory sexual organs in rats. Hiermann A, et al. **J Ethnopharmacol** 1997 Feb;55(3):179–83
Effect of juvenile hormone and juvenile hormone mimics on sperm transfer from the testes of the male cat flea (Siphonaptera:Pulicidae). Dean SR, et al. **J Med Entomol** 1997 Jul;34(4):485–8
Pesticides: multiple mechanisms of demasculinization. LeBlanc GA, et al. **Mol Cell Endocrinol** 1997 Jan 3; 126(1):1–5 (72 ref.)
Reversible effects of mercuric chloride on reproductive organs of the male mouse. Sharma AK, et al. **Reprod Toxicol** 1996 Mar–Apr;10(2):153–9
A dose–response analysis of the reproductive effects of a single gestational dose of 2,3,7,8–tetrachlorodibenzo–p–dioxin in male Long Evans Hooded rat offspring. Gray LE, et al. **Toxicol Appl Pharmacol** 1997 Sep;146(1):11–20
[Effects of captopril on the male reproductive organs and various semen parameters of rabbits] Köhler–Samouilidis G, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jun; 110(6):201–5 (Eng. Abstr.) **(Ger)**

EMBRYOLOGY

Development of the genital peritoneal folds in sheep. Martin E, et al. **Anat Histol Embryol** 1996 Sep;25(3):187–95
Porcine SRY gene locus and genital ridge expression. Daneau I, et al. **Biol Reprod** 1996 Jul;55(1):47–53
Genital anomalies in human and animal models reveal the mechanisms and hormones governing testicular descent. Clarnette TD, et al. **Br J Urol** 1997 Jan;79(1):99–112
Male accessory sex organ morphogenesis is altered by loss of function of Hoxd–13. Podlasek CA, et al. **Dev Dyn** 1997 Apr;208(4):454–65
Tissue–specific expression of murine Nkx3.1 in the male urogenital system. Sciavolino PJ, et al. **Dev Dyn** 1997 May; 209(1):127–38
The role of growth hormone in fetal mouse reproductive tract differentiation. Nguyen AP, et al. **Endocrinology** 1996 Sep;137(9):3659–66
Molecular biology and function of the androgen receptor in genital development. Wiener JS, et al. **J Urol** 1997 Apr; 157(4):1377–86 (121 ref.)
Activation of androgen receptor in epidermal growth factor modulation of fetal mouse sexual differentiation. Gupta C, et al. **Mol Cell Endocrinol** 1996 Oct 14;123(1):89–95
Morphogenesis of the human external male genitalia. Ammini AC, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):401–6
[Malformations of male internal genitalia originating from the Wolffian duct] Mure PY, et al. **Arch Pediatr** 1997 Feb; 4(2):163–9 (34 ref.) (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Distribution of immunoreactive 2',5'–oligoadenylate synthetase in mouse reproductive organs. Asada–Kubota M, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):349–54
Preputial sebocyte 5alpha–reductase isoform specificity. Deplewski D, et al. **Endocrinology** 1997 Oct; 138(10):4416–20
Catalase mRNA expression in the male rat reproductive tract. Zini A, et al. **J Androl** 1996 Sep–Oct;17(5):473–80

GROWTH & DEVELOPMENT

Sexual maturation in East German boys. Willers B, et al. **Acta Paediatr** 1996 Jul;85(7):785–8
Effects of short–term exposure to hydroxyflutamide in utero on the development of the reproductive tract in male mice. Silversides DW, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1582–8

IMMUNOLOGY

IgM and IgG in the human male genital tract. Sirigu P, et al. **Arch Androl** 1997 Jul–Aug;39(1):45–53
Immunohistochemical detection and distribution of the 1,25–dihydroxyvitamin D3 receptor in rat reproductive tissues. Johnson JA, et al. **Histochem Cell Biol** 1996 Jan; 105(1):7–15

INJURIES

[Perineal–genital wounds in war medicine. Apropos of 18 cases] Mianné D, et al. **Chirurgie** 1997;122(3):212–5 (Eng. Abstr.) **(Fre)**
[Genital self–injury behavior—phenomenologic and differential diagnosis considerations from the psychiatric viewpoint] Becker H, et al. **Fortschr Neurol Psychiatr** 1997 Feb;65(2):71–8 (Eng. Abstr.) **(Ger)**

INNERVATION

Patient–reported impotence and incontinence after nerve–sparing radical prostatectomy. Talcott JA, et al. **J Natl Cancer Inst** 1997 Aug 6;89(15):1117–23
Responses of medullary reticular formation neurons to input from the male genitalia. Hubscher CH, et al. **J Neurophysiol** 1996 Oct;76(4):2474–82
Anatomy of the nerve supply of the rectum, bladder, and internal genitalia in anorectal dysgenesis in the male. Davies MR. **J Pediatr Surg** 1997 Apr;32(4):536–41
Oral and genital pain syndromes in Parkinson's disease. Ford B, et al. **Mov Disord** 1996 Jul;11(4):421–6

METABOLISM

Immunohistochemical localization in the stallion genital tract, and topography on spermatozoa of seminal plasma protein SSP–7, a member of the spermadhesin protein family. Reinert M, et al. **Andrologia** 1997 Jul–Aug;29(4):179–86
Porcine SRY gene locus and genital ridge expression. Daneau

I, et al. **Biol Reprod** 1996 Jul;55(1):47–53
Ontogeny of androgen receptor–like immunoreactivity in the reproductive tract of male Monodelphis domestica. Sonea IM, et al. **Biol Reprod** 1997 Apr;56(4):852–60
Photoperiod–induced changes in androgen receptor expression in testes and accessory sex glands of the bank vole, Clethrionomys glareolus. Tähkä KM, et al. **Biol Reprod** 1997 Apr;56(4):898–908
Plasma testosterone level and the male genital system after chloroquine therapy. Nicola WG, et al. **Boll Chim Farm** 1997 Jan;136(1):39–43
Localization of regulatory peptides in the male urogenital apparatus of domestic equidae: a comparative immunohistochemical study in Equus caballus and Equus asinus. Arrighi S, et al. **Histol Histopathol** 1997 Apr; 12(2):297–310
Biokinetics and dosimetry of chromium, cobalt, hydrogen, iron and zinc radionuclides in male reproductive tissues of the rat. Bingham D, et al. **Int J Radiat Biol** 1997 Aug; 72(2):235–48
m–Calpain activation/depletion is associated with androgen–induced reduction of protein kinase C and proliferation of male accessory sex organ smooth muscle cells. Gebrosky N, et al. **J Urol** 1997 Feb;157(2):662–8
Multiple forms of messenger ribonucleic acid encoding glycodelin in male genital tract. Koistinen H, et al. **Lab Invest** 1997 May;76(5):683–90
Distinct transcripts are recognized by sense and antisense riboprobes for a member of the murine HSP70 gene family, HSP70.2, in various reproductive tissues. Murashov AK? Wolgemuth DJ. **Mol Reprod Dev** 1996 Jan;43(1):17–24
Neuropeptide Y1 receptors in the rat genital tract. Kopp J, et al. **Regul Pept** 1997 Jun 18;70(2–3):149–60

MICROBIOLOGY

Comparison of ligase chain reaction and culture for detection of Neisseria gonorrhoeae in genital and extragenital specimens. Stary A, et al. **J Clin Microbiol** 1997 Jan; 35(1):239–42
The bacterial flora of the genitourinary tract in healthy fertile men. Willén M, et al. **Scand J Urol Nephrol** 1996 Oct; 30(5):387–93

PATHOLOGY

Disorders of male genitalia. Clearihan L. **Aust Fam Physician** 1996 Apr;25(4):584–5
Effect of the colony–stimulating factor–1 null mutation, osteopetrotic (csfm(op)), on the distribution of macrophages in the male mouse reproductive tract. Pollard JW, et al. **Biol Reprod** 1997 May;56(5):1290–300
Gonadal atrophy as a cause of thymic hyperplasia after chemotherapy [letter] Sperandio P, et al. **Br J Cancer** 1996 Sep;74(6):991–2
'Scléroedème génito–sus–pubien' of the newborn: a forgotten disease? Hernández–Martín A, et al. **Dermatology** 1996; 193(4):347–8 (10 ref.)
Urinary tract and male genital system. Coulson WF. **Pathology (Phila)** 1996;3(2):493–502 (17 ref.)
MR imaging in male infertility. Parsons RB, et al. **Radiographics** 1997 May–Jun;17(3):627–37

PHYSIOLOGY

Involvement of the adrenal medulla in ejaculatory reactions in the dog. Kihara K, et al. **Int J Androl** 1997 Apr; 20(2):104–11
Molecular aspects of steroid hormone action in the male reproductive axis. Shupnik MA, et al. **J Androl** 1997 Jul–Aug;18(4):341–4 (25 ref.)
Role of V–ATPase–rich cells in acidification of the male reproductive tract. Brown D, et al. **J Exp Biol** 1997 Jan; 200 (Pt 2):257–62 (63 ref.)
The male reproductive system and endurance exercise. Hackney AC. **Med Sci Sports Exerc** 1996 Feb;28(2):180–9 (61 ref.)
Lack of effect of bilateral removal of accessory sex glands on sexual behaviour in the male golden hamster (Mesocricetus auratus). Chow PH, et al. **Physiol Behav** 1996 Feb;59(2):393–6
Increased secondary sex ratios in golden hamster litters sired by males without coagulating glands and seminal vesicles. Chow PH, et al. **Reprod Fertil Dev** 1996;8(2):297–300
Use of semen as biopsy material for assessment of health status of the stallion reproductive tract. Veeramachaneni DN, et al. **Vet Clin North Am Equine Pract** 1996 Apr; 12(1):101–10 (6 ref.)
Anatomy and physiology of the bull's reproductive system. Fayrer–Hosken R. **Vet Clin North Am Food Anim Pract** 1997 Jul;13(2):195–202 (7 ref.)

PHYSIOPATHOLOGY

Lithium and male sexual function in affective patients. Aizenberg D, et al. **Clin Neuropharmacol** 1996 Dec; 19(6):515–9
Gonadal dysfunction in males with prolactinoma: from functional modification to irreversible damage? [letter; comment] Delgrange E, et al. **Eur J Endocrinol** 1997 Jun; 136(6):630. Comment on: Eur J Endocrinol 1996 Nov;135(5):548–52.
Empty sellae, impaired testosterone secretion, and defective hypothalamic–pituitary growth and gonadal axes in children with Bardet–Biedl syndrome. Soliman AT, et al. **Metabolism** 1996 Oct;45(10):1230–4

SECRETION

Epididymal and sex accessory gland secretions in transfusion–dependent beta–thalassemic patients: evidence of an impaired prostatic function. Carpino A, et al. **Exp Clin Endocrinol Diabetes** 1997;105(3):169–74

SURGERY

Urinary tract and male genital system. Coulson WF. **Pathology (Phila)** 1996;3(2):493–502 (17 ref.)
[Long–term outcome of sex reassignment of male transsexual patients] Jarrar K, et al. **Urologe A** 1996 Jul;35(4):331–7 (Eng. Abstr.) **(Ger)**
[Interdisciplinary concepts of surgical sex transformation in transsexual patients] Sohn M, et al. **Urologe A** 1996 Jan; 35(1):26–34 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Ultrasound anatomy of the normal male reproductive tract. Older RA, et al. **J Clin Ultrasound** 1996 Oct;24(8):389–404 (31 ref.)
[Utility of ultrasonography in patients with ambiguous external genitalia: a clinical case] Annese P, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):139–40 (Eng. Abstr.) **(Ita)**

GENITOURINARY DISEASES see **UROGENITAL DISEASES**

GENITOURINARY NEOPLASMS see **UROGENITAL NEOPLASMS**

GENITOURINARY SPHINCTER, ARTIFICIAL see **URINARY SPHINCTER, ARTIFICIAL**

GENITOURINARY SYSTEM see **UROGENITAL SYSTEM**

GENOME

The role of constrained self–organization in genome structural evolution. von Sternberg R. **Acta Biotheor** 1996 Jun;44(2):95–118 (117 ref.)
Specific quantitation of genomic DNA in the femtogram range by amplification of repetitive sequences. Himmelspach M, et al. **Anal Biochem** 1996 Nov 15; 242(2):240–7
Alignment of the PiGMaP and USDA linkage maps of porcine chromosomes 3 and 9. Groenen MA, et al. **Anim Genet** 1996 Oct;27(5):355–7
Crosstalk between nuclear and mitochondrial genomes. Poyton RO, et al. **Annu Rev Biochem** 1996;65:563–607 (318 ref.)
The human genome: organization and evolutionary history. Bernardi G. **Annu Rev Genet** 1995;29:445–76 (126 ref.)
Of genomes and proteomes. James P. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):1–6 (41 ref.)
Genomic evolution drives the evolution of the translation system. Andersson SG, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):775–87 (102 ref.)
Altruistic DNA. About protective functions of the abundant DNA in the eukaryotic genome and its role in stabilizing genetic information. Patrushev LI. **Biochem Mol Biol Int** 1997 Apr;41(4):851–60
Drosophila melanogaster genomic DNA sequence homologous to mammalian cytosine DNA–methyltransferase gene. Vanyushin BF, et al. **Biochem Mol Biol Int** 1996 May;39(2):353–8
Genomic evolution in mice and men: imprinted genes have little intronic content [letter; comment] McVean GT, et al. **Bioessays** 1996 Sep;18(9):773–5. Comment on: Bioessays 1996 May;18(5):351–3.
Progress with proteome projects: why all proteins expressed by a genome should be identified and how to do it. Wilkins MR, et al. **Biotechnol Genet Eng Rev** 1996;13:19–50 (153 ref.)
Genomic imprinting and the differential roles of parental genomes in brain development. Keverne EB, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):91–100
Gene structure and 5'–flanking regulatory region of the murine serotonin transporter. Bengel D, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):286–92
SEZ–6: promoter selectivity, genomic structure and localized expression in the brain. Herbst R, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):309–22
Partial sequence of the shrimp Penaeus notialis mitochondrial genome. Garcia–Machado E, et al. **C R Acad Sci III** 1996 Jun;319(6):473–86
Response to "Germ–line therapy to cure mitochondrial disease: protocol and ethics of in vitro ovum nuclear transplantation" by Donald S. Rubenstein, David C. Thomasma, Eric A. Schon, and Michael J. Zinaman (CQ Vol 4, No 3). Bacchetta MD, et al. **Camb Q Healthc Ethics** 1996 Summer;5(3):450–7 (10 ref.)
Mitosis in cells with unreplicated genomes (MUGs): spindle assembly and behavior of centromere fragments. Wise DA, et al. **Cell Motil Cytoskeleton** 1997;36(3):291–302
Deciphering isozyme function: exploring cell biology with chemistry in the post–genomic era. Crews CM. **Chem Biol** 1996 Dec;3(12):961–5 (31 ref.)
A framework physical map of Drosophila virilis based on P1 clones: applications in genome evolution. Vieira J, et al. **Chromosoma** 1997 Jul;106(2):99–107
Genome of the rainbow trout (Oncorhynchus mykiss) encodes two distinct muscle regulatory factors with homology to myoD. Rescan PY, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr; 113(4):711–5
Regional assignment of genetic markers using a somatic cell hybrid panel: a WWW interactive program available for the pig genome. Chevalet C, et al. **Comput Appl Biosci** 1997 Feb;13(1):69–73
A probabilistic algorithm for interactive huge genome comparison. Courtois PR, et al. **Comput Appl Biosci** 1995 Dec;11(6):657–65
EST—GENOME: a program to align spliced DNA sequences to unspliced genomic DNA. Mott R. **Comput Appl Biosci** 1997 Aug;13(4):477–8
Prediction of probable genes by Fourier analysis of genomic sequences. Tiwari S, et al. **Comput Appl Biosci** 1997 Jun; 13(3):263–70
Development of an animal genome database and its search system. Wada Y, et al. **Comput Appl Biosci** 1996 Jun; 12(3):231–5
Optical mapping approaches to molecular genomics. Schwartz DC, et al. **Curr Opin Biotechnol** 1997 Feb; 8(1):70–4 (32 ref.)
Genomes and evolution. **Curr Opin Genet Dev** 1996 Dec; 6(6):775–800
Biodiversity, genomes, and DNA sequence databases. Leipe DD. **Curr Opin Genet Dev** 1996 Dec;6(6):686–91 (52 ref.)
Web alert. Genetics of disease. Makalowski W, et al. **Curr Opin Genet Dev** 1997 Jun;7(3):327
Conservation of human vs. feline genome organization revealed by reciprocal chromosome painting. Wienberg J, et al. **Cytogenet Cell Genet** 1997;77(3–4):211–7
Synthetic DNA–based genetic markers reveal intra– and inter–species DNA sequence variability in the Bubalus bubalis and related genomes. John MV, et al. **DNA Cell Biol** 1997 Mar;16(3):369–78
Integration of foreign DNA sequences into mouse sperm genome. Zoraqi G, et al. **DNA Cell Biol** 1997 Mar; 16(3):291–300
Modern genome research and DNA diagnostics in domestic animals in the light of classical breeding techniques. Buitkamp J, et al. **Electrophoresis** 1996 Jan;17(1):1–11 (111 ref.)
Strategies for whole microbial genome sequencing and analysis. Fraser CM, et al. **Electrophoresis** 1997 Aug; 18(8):1207–16 (55 ref.)
Proteome research: complementarity and limitations with respect to the RNA and DNA worlds. Humphery–Smith I, et al. **Electrophoresis** 1997 Aug;18(8):1217–42 (321 ref.)
Genomic structure, sequence, and physiological expression of mKv 1.5, a mouse potassium channel gene. Street VA, et al. **Epilepsy Res Suppl** 1996;12:165–75
Genome size and AT content in Anguilliformes. Ronchetti E, et al. **Eur J Histochem** 1995;39(4):259–64
Prospects for quantitative trait locus methodology in gerontology. McClearn GE. **Exp Gerontol** 1997 Jan–Apr; 32(1–2):49–54 (14 ref.)
Insertion of a short Alu sequence into the hMSH2 gene following a double crosss over next to sequences with chi homology. Marshall B, et al. **Gene** 1996 Sep 26;174(1):175–9
Representation of function: the next step. Overbeek R, et al. **Gene** 1997 May 20;191(1):GC1–GC9
PARP is important for genomic stability but dispensable in apoptosis. Wang ZQ, et al. **Genes Dev** 1997 Sep 15; 11(18):2347–58
Identification of new medium reiteration frequency repeats in the genomes of Primates, Rodentia and Lagomorpha. Jurka J, et al. **Genetica** 1996–97;98(3):235–47
The probability distribution of the amount of an individual's genome surviving to the following generation. Bickeböller H, et al. **Genetics** 1996 Jun;143(2):1043–9
Segregation distortion in Drosophila melanogaster: genomic organization of Responder sequences. Moschetti R, et al. **Genetics** 1996 Dec;144(4):1365–71
The salmon SmaI family of short interspersed repetitive elements (SINEs): interspecific and intraspecific variation of the insertion of SINEs in the genomes of chum and pink salmon. Takasaki N, et al. **Genetics** 1997 May; 146(1):369–80
Evolution of pulmonate gastropod mitochondrial genomes: comparisons of gene organizations of Euhadra, Cepaea and Albinaria and implications of unusual tRNA secondary structures. Yamazaki N, et al. **Genetics** 1997 Mar; 145(3):749–58
Small open reading frames: beautiful needles in the haystack. Basrai MA, et al. **Genome Res** 1997 Aug;7(8):768–71
The unified grass genome: synergy in synteny. Bennetzen JL, et al. **Genome Res** 1997 Apr;7(4):301–6 (40 ref.)
QTL mapping to QTL cloning: mice to the rescue. Georges M. **Genome Res** 1997 Jul;7(7):663–5 (13 ref.)
Livestock genomics comes of age. Georges M, et al. **Genome Res** 1996 Oct;6(10):907–21 (89 ref.)
Genotator: a workbench for sequence annotation. Harris NL. **Genome Res** 1997 Jul;7(7):754–62
Big time for small genomes. Koonin EV. **Genome Res** 1997 May;7(5):418–21
Low frequency of microsatellites in the avian genome.

Primmer CR, et al. **Genome Res** 1997 May;7(5):471–82
Perspectives: sequence data base searching in the era of large-scale genomic sequencing. Smith RF. **Genome Res** 1996 Aug;6(8):653–60 (44 ref.)
The chromosomal distribution of CpG islands in the mouse: evidence for genome scrambling in the rodent lineage. Cross SH, et al. **Genomics** 1997 Mar 15;40(3):454–61
Data note system for capturing laboratory data. Graves M. **Genomics** 1997 Jul 15;43(2):232–6
Construction of a mouse whole-genome radiation hybrid panel and application to MMU11. Schmitt K, et al. **Genomics** 1996 Jun 1;34(2):193–7
Computational methods for the identification of genes in vertebrate genomic sequences. Claverie JM. **Hum Mol Genet** 1997;6(10):1735–44 (100 ref.)
A fine-scale comparison of the human and chimpanzee genomes: linkage, linkage disequilibrium and sequence analysis. Crouau-Roy B, et al. **Hum Mol Genet** 1996 Aug; 5(8):1131–7
Survey of maximum CTG/CAG repeat lengths in humans and non-human primates: total genome scan in populations using the Repeat Expansion Detection method. Sirugo G, et al. **Hum Mol Genet** 1997 Mar;6(3):403–8
GENOLYTE: a PC-based computer program for visualisation of genomic DNA sequences. Gupta SK, et al. **Indian J Biochem Biophys** 1996 Apr;33(2):152–5
Genomic organization and polymorphisms of the major house dust mite allergen Der f2. Yuuki T, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):44–8
Identification of a novel vitamin D response element from the rat genome. Sakoda K, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):89–94
Genome replication in early mouse embryos follows a defined temporal and spatial order. Ferreira J, et al. **J Cell Sci** 1997 Apr;110 (Pt 7):889–97
Transfection with the cDNA of the human thyrotropin receptor of a poorly differentiated rat thyroid cell line (FRT). Elisei R, et al. **J Endocrinol Invest** 1996 Apr; 19(4):230–5
Cloning of mouse type VII collagen reveals evolutionary conservation of functional protein domains and genomic organization. Kivirikko S, et al. **J Invest Dermatol** 1996 Jun;106(6):1300–6
A statistical model for locating regulatory regions in genomic DNA. Crowley EM, et al. **J Mol Biol** 1997 Apr 25; 268(1):8–14
Identification and characterization of genomic nucleosome-positioning sequences. Widlund HR, et al. **J Mol Biol** 1997 Apr 11;267(4):807–17
Two cardiac natriuretic peptide genes (atrial natriuretic peptide and brain natriuretic peptide) are organized in tandem in the mouse and human genomes. Tamura N, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1811–5
The major compositional transitions in the vertebrate genome. Bernardi G, et al. **J Mol Evol** 1997;44 Suppl 1:S44–51
The 3' ends of tRNA-derived SINEs originated from the 3' ends of LINEs: a new example from the bovine genome. Okada N, et al. **J Mol Evol** 1997;44 Suppl 1:S52–6
Characterization of interrelated sequence motifs in four satellite DNAs and their distribution in the genome of the mollusc Donax trunculus. Plohl M, et al. **J Mol Evol** 1997 Feb;44(2):189–98
Cancer genome anatomy project set for take-off [news] Kuska B. **J Natl Cancer Inst** 1996 Dec 18;88(24):1801–3
Scientists reach a turning point with gene nomenclature [news] Kuska B. **J Natl Cancer Inst** 1997 Sep 17; 89(18):1332–4
Inheritance of susceptibility to experimental autoimmune encephalomyelitis. Encinas JA, et al. **J Neurosci Res** 1996 Sep 15;45(6):655–69 (77 ref.)
Proteome analysis: genomics via the output rather than the input code. Humphery-Smith I, et al. **J Protein Chem** 1997 Jul;16(5):537–44 (18 ref.)
What exactly are genomes, genotypes and phenotypes? And what about phenomes? Mahner M, et al. **J Theor Biol** 1997 May 7;186(1):55–63
On viruses, sex, and motherhood. Villareal LP. **J Virol** 1997 Feb;71(2):859–65 (88 ref.)
Genomic organization of a human cystine transporter gene (SLC3A1) and identification of novel mutations causing cystinuria. Endsley JK, et al. **Kidney Int** 1997 Jun; 51(6):1893–9
Encyclopedia of the mouse genome VI. January 1997. **Mamm Genome** 1997;7 Spec No:S1–388
Comparative genome organization of vertebrates. The First International Workshop on Comparative Genome Organization. Andersson L, et al. **Mamm Genome** 1996 Oct; 7(10):717–34
The application of FISH techniques for physical mapping in the dog (Canis familiaris). Fischer PE, et al. **Mamm Genome** 1996 Jan;7(1):37–41
A comprehensive large-insert yeast artificial chromosome library for physical mapping of the mouse genome. Haldi ML, et al. **Mamm Genome** 1996 Oct;7(10):767–9
Regional assignment of human ESTs by whole-genome radiation hybrid mapping. Hayes PD, et al. **Mamm Genome** 1996 Jun;7(6):446–50
Comparison of the 5' end of the rat and mouse cystathionine beta-synthase genes. Roper MD, et al. **Mamm Genome** 1996 Oct;7(10):754–7
A novel family of repeat sequences in the mouse genome responsive to retinoic acid. Sam M, et al. **Mamm Genome** 1996 Oct;7(10):741–8
Pig genome analysis: differential distribution of SINE and LINE sequences is less pronounced than in the human and mouse genomes. Thomsen PD, et al. **Mamm Genome** 1996 Jan;7(1):42–6
Comparative maps of vertebrates. Wakefield MJ, et al. **Mamm Genome** 1996 Oct;7(10):715–6
Cloning and characterization of the mouse alpha globin cluster and a new hypervariable marker. Zhao QZ, et al. **Mamm Genome** 1996 Oct;7(10):749–53
The schistosome genome project: RNA arbitrarily primed PCR allows the accelerated generation of expressed sequence tags. Dias Neto E, et al. **Mem Inst Oswaldo Cruz** 1996 Sep-Oct;91(5):655–7
Gene mapping and isolation. Access to databases. Bishop MJ. **Methods Mol Biol** 1997;68:237–59
Coincidence cloning. Taking the coincidences out of genome analysis. Devon RS, et al. **Mol Biotechnol** 1996 Jun; 5(3):243–52 (28 ref.)
Methylation of genomes and genes at the invertebrate-vertebrate boundary. Tweedie S, et al. **Mol Cell Biol** 1997 Mar;17(3):1469–75
The unique endometrial expression and genomic organization of the porcine IGFBP-2 gene. Song S, et al. **Mol Cell Endocrinol** 1996 Jul 1;120(2):193–202
Comparison of 6-s-cis- and 6-s-trans-locked analogs of 1alpha,25-dihydroxyvitamin D3 indicates that the 6-s-cis conformation is preferred for rapid nongenomic biological responses and that neither 6-s-cis- nor 6-s-trans-locked analogs are preferred for genomic biological responses. Norman AW, et al. **Mol Endocrinol** 1997 Sep; 11(10):1518–31
Cancer genome anatomy project launched [news] O'Brien C. **Mol Med Today** 1997 Mar;3(3):94
Functional genomics: mutants to order [news] Stewart A. **Mol Med Today** 1997 Mar;3(3):93
Up the function [editorial] **Nat Genet** 1997 Jun;16(2):111–2
Genome cross-referencing and XREFdb: implications for the identification and analysis of genes mutated in human disease. Bassett DE Jr, et al. **Nat Genet** 1997 Apr; 15(4):339–44
A celebration and a farewell [news] Goodfellow P. **Nat Genet** 1997 Jul;16(3):209–10
Structure and the genome [editorial] [see comments] **Nat Struct Biol** 1997 May;4(5):329–30. Comment in: Nat Struct Biol 1997 Jul;4(7):517.
How good a model is the Fugu genome? [letter; comment] Aparicio S, et al. **Nature** 1997 May 8;387(6629):140. Comment on: Nature 1997 Jan 23;385(6614):305–6.
How good a model is the Fugu genome? [letter; comment] Elgar G, et al. **Nature** 1997 May 8;387(6629):140. Comment on: Nature 1997 Jan 23;385(6614):305–6.
To what extent is strain variation evidence for an independent genome in the agent of the transmissible spongiform encephalopathies? Ridley RM, et al. **Neurodegeneration** 1996 Sep;5(3):219–31 (89 ref.)
Noncoordinate expression of odorant receptor genes tightly linked in the zebrafish genome. Barth AL, et al. **Neuron** 1997 Aug;19(2):359–69
Organization of the Drosophila genome in mutants with changes in second messenger metabolism and learning ability. Medvedeva AV, et al. **Neurosci Behav Physiol** 1997 May-Jun;27(3):272–4
The Mouse Genome Database (MGD). A comprehensive public resource of genetic, phenotypic and genomic data. The Mouse Genome Informatics Group. Blake JA, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):85–91
The translational signal database, TransTerm: more organisms, complete genomes. Dalphin ME, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):246–7
Direct DNA sequence determination from total genomic DNA. Kilger C, et al. **Nucleic Acids Res** 1997 May 15; 25(10):2032–4
BC1 RNA, the transcript from a master gene for ID element amplification, is able to prime its own reverse transcription. Shen MR, et al. **Nucleic Acids Res** 1997 Apr 15; 25(8):1641–8
A computational genomics approach to the identification of gene networks. Wagner A. **Nucleic Acids Res** 1997 Sep 15;25(18):3594–604
Genome sizes of the entomopathogenic nematodes Steinernema carpocapsae and Heterorhabditis bacteriophora (Nematoda:Rhabditida). Grenier E, et al. **Parasitology** 1997 May;114 (Pt 5):497–501
Hypoparathyroidism and deafness associated with pleioplasmic large scale rearrangements of the mitochondrial DNA: a clinical and molecular genetic study of four children with Kearns-Sayre syndrome. Wilichowski E, et al. **Pediatr Res** 1997 Feb;41(2):193–200 (47 ref.)
Preliminary linkage map of the chicken (Gallus domesticus) genome based on microsatellite markers: 77 new markers mapped. Crooijmans RP, et al. **Poult Sci** 1996 Jun; 75(6):746–54
Comparative mapping of the chicken genome using the East Lansing reference population. Smith EJ, et al. **Poult Sci** 1997 May;76(5):743–7
Characteristic enrichment of DNA repeats in different genomes. Cox R, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5237–42
Operons and SL2 trans-splicing exist in nematodes outside the genus Caenorhabditis. Evans D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9751–6
Compositional differences within and between eukaryotic genomes. Karlin S, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10227–32
Genomic mutation rates for lifetime reproductive output and lifespan in Caenorhabditis elegans. Keightley PD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3823–7
Whole genome analysis: experimental access to all genome sequenced segments through larger-scale efficient oligonucleotide synthesis and PCR. Lashkari DA, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):8945–7
Identification and classification of 16 new kinesin superfamily (KIF) proteins in mouse genome. Nakagawa T, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9654–9
The one ancestor per generation rule and three other rules of mitochondrial inheritance. Ohno S. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8033–5
Meeting the constraints upon behavioral expression through neural and genomic interactive mechanisms. Pfaff DW, et al. **Prog Brain Res** 1996;107:343–54 (48 ref.)
Genomic instability in Chinese hamster cells after exposure to X rays or alpha particles of different mean linear energy transfer. Manti L, et al. **Radiat Res** 1997 Jan;147(1):22–8
Genome self-modification and cellular control of genome reorganization. von Sternberg R. **Riv Biol** 1996; 89(3):423–61 (117 ref.)
Variability in hepatitis B virus DNA: phylogenetic, epidemiological and clinical implications. Kidd-Ljunggren K. **Scand J Infect Dis** 1996;28(2):111–6 (57 ref.)
Should non-peer-reviewed raw DNA sequence data release be forced on the scientific community? Adams MD, et al. **Science** 1996 Oct 25;274(5287):534–6
Funding sequencing efforts [letter; comment] Bond E, et al. **Science** 1997 Feb 21;275(5303):1051–2. Comment on: Science 1996 Oct 25;274(5287):546, 563–7.
Accessing genetic information with high-density DNA arrays. Chee M, et al. **Science** 1996 Oct 25;274(5287):610–4
Organelle genomes: going, going, gone! Palmer JD. **Science** 1997 Feb 7;275(5301):790–1 (22 ref.)
A zebrafish genome project? [news] Roush W. **Science** 1997 Feb 14;275(5302):923
Molecular screening of xenodonor genomes for species-specific endogenous retroviral DNA sequences. Hoopes CW, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):897–8
Topogenesis of inner membrane proteins of mitochondria. Stuart RA, et al. **Trends Biochem Sci** 1996 Jul;21(7):261–7 (40 ref.)
Internet resources for the parasite genome projects. Blaxter M, et al. **Trends Genet** 1997 Jan;13(1):40–1
Cell and genome coevolution: facultative anaerobiosis, glycosomes and kinetoplastan RNA editing. Cavalier-Smith T. **Trends Genet** 1997 Jan;13(1):6–9 (30 ref.)
Small is beautiful: comparative genomics with the pufferfish (Fugu rubripes). Elgar G, et al. **Trends Genet** 1996 Apr; 12(4):145–50 (45 ref.)
Base composition and gene distribution: critical patterns in mammalian genome organization. Gardiner K. **Trends Genet** 1996 Dec;12(12):519–24 (43 ref.)
How to limit your sequence search by organism. Lewitter F. **Trends Genet** 1997 Jul;13(7):286–7
Genome organization, natural genetic engineering and adaptive mutation. Shapiro JA. **Trends Genet** 1997 Mar; 13(3):98–104 (68 ref.)
[Recent progress in the analysis of the intranuclear organization of the animal cell genome by FISH] Okumura K. **Seikagaku** 1997 May;69(5):335–9 (15 ref.) **(Jpn)**
[Genomic heterozygosity, sexual maturation rate, and life expectancy] Altukhov IuP. **Dokl Akad Nauk** 1996 Jun; 348(6):842–5 **(Rus)**
[Genomic effect of low doses of prolonged gamma-irradiation of mice and its after-effect] Shugaĭi AV, et al. **Dokl Akad Nauk** 1996 Oct;350(6):828–30 **(Rus)**
[Characterization of rat lines with normotensive and hypertensive status using genomic fingerprinting] Adarichev VA, et al. **Genetika** 1996 Dec;32(12):1669–72 (Eng. Abstr.) **(Rus)**
[DNA restriction polymorphism in European and Asiatic species of wood mice of the genus Apodemus] Chelomina GN. **Genetika** 1996 Oct;32(10):1381–6 (Eng. Abstr.) **(Rus)**
[Genomic incompatibility in Drosophila virilis Sturt. X Drosophila lummei Hackman hybrids] Falileeva LI, et al. **Genetika** 1997 Apr;33(4):458–63 (Eng. Abstr.) **(Rus)**
[Use of polymorphic DNA markers for differentiation of chicken breeds of varying origin] Semenova SK, et al. **Genetika** 1996 Jun;32(6):795–803 (Eng. Abstr.) **(Rus)**
[Genomic variation of laboratory strains and natural populations of Drosophila melanogaster exposed to X-irradiation] Shokhanov SO, et al. **Genetika** 1997 Jan; 33(1):25–30 (Eng. Abstr.) **(Rus)**
[The MGL computer system--an instrument for generating, graphically representing, and analyzing regulatory genomic sequences] Kolpakov FA, et al. **Mol Biol (Mosk)** 1997 Jul-Aug;31(4):647–55 **(Rus)**
[The "2 + 1" mechanism as the basis for synergism in the neutron-photon irradiation of the spermatozoal genome in Drosophila melanogaster] Aleksandrov ID, et al. **Radiats Biol Radioecol** 1996 Nov-Dec;36(6):780–8 (Eng. Abstr.) **(Rus)**
[MtDNA-like sequences and the coordination of the

GENOME

functioning of mammalian nuclear and mitochondrial genomes] Maliarchuk BA. **Tsitol Genet** 1997 Mar–Apr; 31(2):53–61 (51 ref.) (Eng. Abstr.) **(Rus)**

[Genome multiplication mechanisms in the development of albumen gland polyploid cells of Succinea lauta (Gastropoda:Pulmonata). V. Polyploidizing mitosis and endomitosis] Anisimov AP. **Tsitologiia** 1997;39(2–3):218–28 (Eng. Abstr.) **(Rus)**

[Genome multiplication mechanisms in the development of albumen gland polyploid cells of Succinea lauta (Gastropoda:Pulmonata). VI. Ultrastructural research of endomitotic structure] Anisimov AP. **Tsitologiia** 1997; 39(2–3):229–36 (Eng. Abstr.) **(Rus)**

[Genome multiplication in the development of albumen gland polyploid cells of Succinea lauta (Gastropoda:Pulmonata).VII. Transcriptive activity of the nuclei in the endomitotic cycle] Anisimov AP. **Tsitologiia** 1997;39(2–3):237–43 (Eng. Abstr.) **(Rus)**

[Genome multiplication mechanisms in the development of albumen gland polyploid cell of Succinea lauta (Gastropoda:Pulmonata). VIII. Pseudomitosis in the terminally differentiated cells] Anisimov AP. **Tsitologiia** 1997;39(2–3):244–52 (Eng. Abstr.) **(Rus)**

GENOME, BACTERIAL

Burkholderia (Pseudomonas) cepacia epidemiology in a cystic fibrosis population: a genome finger-printing study. Cazzola G, et al. **Acta Paediatr** 1996 May;85(5):554–7

Mapping the regions carrying the three contiguous antibiotic resistance genes aadE, sat4, and aphA-3 in the genomes of staphylococci. Derbise A, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1024–32

Genomic organization of lactic acid bacteria. Davidson BE, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):161–83 (153 ref.)

Evolution of bacterial genomes. Trevors JT. **Antonie Van Leeuwenhoek** 1997 Mar;71(3):265–70 (28 ref.)

Genome size in bacteria. Trevors JT. **Antonie Van Leeuwenhoek** 1996 May;69(4):293–303 (73 ref.)

Characterization of the variable-number tandem repeats in vrrA from different Bacillus anthracis isolates. Jackson PJ, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1400–5

Novel anaerobic ultramicrobacteria belonging to the Verrucomicrobiales lineage of bacterial descent isolated by dilution culture from anoxic rice paddy soil. Janssen PH, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1382–8

Intraspecific genetic diversity of Oenococcus oeni as derived from DNA fingerprinting and sequence analyses. Zavaleta AI, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1261–7

Comparative genomic analysis of isolates belonging to the six species of the genus Thermus using pulsed-field gel electrophoresis and ribotyping. Moreira LM, et al. **Arch Microbiol** 1997 Aug;168(2):92–101

Difference in frequency spectrum of extremely-low-frequency effects on the genome conformational state of AB 1157 and EMG2 E. coli cells. Alipov YD, et al. **Bioelectromagnetics** 1996;17(5):384–7

Visual Genome Explorer: a comparative visual interface to genome data. Archer ES, et al. **Biotechniques** 1997 Jun; 22(6):1164–5

Optimized conditions of PacI and SwaI for genomic analysis of X. axonopodis pv. vesicatoria by PFGE. Hacioglu E, et al. **Biotechniques** 1997 Jun;22(6):1026–8

Restriction enzyme and DNA hybridization analysis of cellulolytic Streptomyces isolates of different origin. Marri L, et al. **Can J Microbiol** 1997 Apr;43(4):395–9

Archaeal genomics: an overview. Olsen GJ, et al. **Cell** 1997 Jun 27;89(7):991–4 (12 ref.)

Sequence analysis of the Methanococcus jannaschii genome and the prediction of protein function. Andrade M, et al. **Comput Appl Biosci** 1997 Aug;13(4):481–3

Micado--a network-oriented database for microbial genomes. Biaudet V, et al. **Comput Appl Biosci** 1997 Aug; 13(4):431–8

The genome of Yersinia enterocolitica is the most stable of the three pathogenic species. Najdenski H, et al. **Contrib Microbiol Immunol** 1995;13:281–4

Genomes: Methanococcus jannaschii and the golden fleece. Garrett RA. **Curr Biol** 1996 Nov 1;6(11):1377–80 (9 ref.)

Sequencing and analysis of bacterial genomes. Koonin EV, et al. **Curr Biol** 1996 Apr 1;6(4):404–16 (80 ref.)

Metabolism and evolution of Haemophilus influenzae deduced from a whole-genome comparison with Escherichia coli. Tatusov RL, et al. **Curr Biol** 1996 Mar 1;6(3):279–91

Complete genome sequences of cellular life forms: glimpses of theoretical evolutionary genomics. Koonin EV, et al. **Curr Opin Genet Dev** 1996 Dec;6(6):757–62 (39 ref.)

A 570-kb DNA sequence of the Escherichia coli K-12 genome corresponding to the 28.0–40.1 min region on the linkage map (supplement). Aiba H, et al. **DNA Res** 1996 Dec 31;3(6):435–40

A 460-kb DNA sequence of the Escherichia coli K-12 genome corresponding to the 40.1–50.0 min region on the linkage map (supplement). Itoh T, et al. **DNA Res** 1996 Dec 31;3(6):441–5

Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions. Kaneko T, et al. **DNA Res** 1996 Jun 30;3(3):109–36

Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions (supplement). Kaneko T, et al. **DNA Res** 1996 Jun 30; 3(3):185–209

Sequence analysis of the 36-kb region between gntZ and trnY genes of Bacillus subtilis genome. Kasahara Y, et al. **DNA Res** 1997 Apr 28;4(2):155–9

A 718-kb DNA sequence of the Escherichia coli K-12 genome corresponding to the 12.7–28.0 min region on the linkage map (supplement). Oshima T, et al. **DNA Res** 1996 Jun 30;3(3):211–23

A 718-kb DNA sequence of the Escherichia coli K-12 genome corresponding to the 12.7–28.0 min region on the linkage map. Oshima T, et al. **DNA Res** 1996 Jun 30; 3(3):137–55

Sequence features surrounding the translation initiation sites assigned on the genome sequence of Synechocystis sp. strain PCC6803 by amino-terminal protein sequencing. Sazuka T, et al. **DNA Res** 1996 Aug 31;3(4):225–32

Genome analysis of Bacteroides by pulsed-field gel electrophoresis: chromosome sizes and restriction patterns. Shaheduzzaman SM, et al. **DNA Res** 1997 Feb 28; 4(1):19–25

Detection of short protein coding regions within the cyanobacterium genome: application of the hidden Markov model. Yada T, et al. **DNA Res** 1996 Dec 31;3(6):355–61

Cloning and sequencing of a 27.8-kb nucleotide sequence of the 79 degrees-81 degrees region of the Bacillus subtilis genome containing the sspE locus. Yamamoto H, et al. **DNA Res** 1996 Aug 31;3(4):257–62

Construction of a contiguous 874-kb sequence of the Escherichia coli K-12 genome corresponding to the 50.0–68.8 min on the linkage map and analysis of its sequence features (supplement). Yamamoto Y, et al. **DNA Res** 1997 Apr 28;4(2):169–78

Construction of a contiguous 874-kb sequence of the Escherichia coli -K12 genome corresponding to 50.0–68.8 min on the linkage map and analysis of its sequence features. Yamamoto Y, et al. **DNA Res** 1997 Apr 28;4(2):91–113

Cloning and sequencing of a 23-kb region of the Bacillus subtilis genome between the iol and hut operons. Yoshida K, et al. **DNA Res** 1995 Dec 31;2(6):295–301

Mapping of Chlamydia trachomatis proteins by immobiline–polyacrylamide two-dimensional electrophoresis: spot identification by N-terminal sequencing and immunoblotting. Bini L, et al. **Electrophoresis** 1996 Jan;17(1):185–90

Proteome analysis of Spiroplasma melliferum (A56) and protein characterisation across species boundaries. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1335–46

Evaluation of algorithms used for cross-species proteome characterisation. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1410–7

Characterisation of basic proteins from Spiroplasma melliferum using novel immobilised pH gradients. Cordwell SJ, et al. **Electrophoresis** 1997 Aug;18(8):1393–8

Comparing the predicted and observed properties of proteins encoded in the genome of Escherichia coli K-12. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1259–313 (149 ref.)

Identifying the major proteome components of Haemophilus influenzae type-strain NCTC 8143. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1314–34

The proteome of Salmonella enterica serovar typhimurium: current progress on its determination and some applications. O'Connor CD, et al. **Electrophoresis** 1997 Aug;18(8):1483–90

'Proteomic contigs' of Mycobacterium tuberculosis and Mycobacterium bovis (BCG) using novel immobilised pH gradients. Urquhart BL, et al. **Electrophoresis** 1997 Aug; 18(8):1384–92

Escherichia coli proteome analysis using the gene-protein database. VanBogelen RA, et al. **Electrophoresis** 1997 Aug; 18(8):1243–51 (47 ref.)

Proteomic 'contigs' of Ochrobactrum anthropi, application of extensive pH gradients. Wasinger VC, et al. **Electrophoresis** 1997 Aug;18(8):1373–83

Genome-wide hypermutation in a subpopulation of stationary-phase cells underlies recombination-dependent adaptive mutation. Torkelson J, et al. **EMBO J** 1997 Jun 2;16(11):3303–11

Genetic relationship of penicillin resistant Streptococcus pneumoniae serotype 19B strains in Japan. Yoshida R, et al. **Epidemiol Infect** 1997 Apr;118(2):105–10

Mapping of noninvasion TnphoA mutations on the Escherichia coli O18:K1:H7 chromosome. Bloch CA, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):171–6

Genomic organization of purK and purE in Brevibacterium ammoniagenes ATCC 6872: purE locus provides a clue for genomic evolution. Chung SO, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):265–8

Genomic complexity and plasticity of Burkholderia cepacia. Lessie TG, et al. **FEMS Microbiol Lett** 1996 Nov 1; 144(2–3):117–28 (51 ref.)

The world of archaea: genome analysis, evolution and thermostable enzymes. Fujiwara S, et al. **Gene** 1996 Nov 7;179(1):165–70

New ultrarare restriction site-carrying transposons for bacterial genomics. Mahillon J, et al. **Gene** 1997 Mar 18; 187(2):273–9

Genomic organization of the metal-mobilizing bacterium Thiobacillus cuprinus. Marín I, et al. **Gene** 1997 Mar 10; 187(1):99–105

Organization of a large gene cluster encoding ribosomal proteins in the cyanobacterium Synechococcus sp. strain PCC 6301: comparison of gene clusters among cyanobacteria, eubacteria and chloroplast genomes. Sugita M, et al. **Gene** 1997 Aug 11;195(1):73–9

A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing. Wild J, et al. **Gene** 1996 Nov 7;179(1):181–8

Cloning and sequencing of a 35.7 kb in the 70 degree-73 degree region of the Bacillus subtilis genome reveal genes for a new two-component system, three spore germination proteins, an iron uptake system and a general stress response protein. Yamamoto H, et al. **Gene** 1997 Jul 31;194(2):191–9

Big time for small genomes. Koonin EV. **Genome Res** 1997 May;7(5):418–21

The marine bacterium Pseudoalteromonas haloplanktis has a complex genome structure composed of two separate genetic units. Lanoil BD, et al. **Genome Res** 1996 Dec; 6(12):1160–9

Multiplex sequencing of 1.5 Mb of the Mycobacterium leprae genome. Smith DR, et al. **Genome Res** 1997 Aug; 7(8):802–19

DNA typing and control of methicillin-resistant Staphylococcus aureus at two affiliated hospitals. Hartstein AI, et al. **Infect Control Hosp Epidemiol** 1997 Jan;18(1):42–8

Identification of four complete type 4 pilin genes in a single Kingella denitrificans genome. Weir S, et al. **Infect Immun** 1996 Dec;64(12):4993–9

Bangkok Workshop on Leprosy Research. Genome sequencing and its potential applications. Young D. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4 Suppl):S68

Genome organization of Pseudomonas stutzeri and resulting taxonomic and evolutionary considerations. Ginard M, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):132–43

Gene recognition in cyanobacterium genomic sequence data using the hidden Markov model. Yada T, et al. **Ismb** 1996; 4:252–60

Differentiation of Aeromonas genomospecies using random amplified polymorphic DNA polymerase chain reaction (RAPD-PCR). Oakey HJ, et al. **J Appl Bacteriol** 1996 Apr; 80(4):402–10

Construction of a chromosome map for the phage group II Staphylococcus aureus Ps55. Bannantine JP, et al. **J Bacteriol** 1996 Dec;178(23):6842–8

Cloning and analysis of the pepV dipeptidase gene of Lactococcus lactis MG1363. Hellendoorn MA, et al. **J Bacteriol** 1997 Jun;179(11):3410–5

Genomic organization of the acidophilic chemolithoautotrophic bacterium Thiobacillus ferrooxidans ATCC 21834. Irazabal N, et al. **J Bacteriol** 1997 Mar; 179(6):1946–50

Compositional biases of bacterial genomes and evolutionary implications. Karlin S, et al. **J Bacteriol** 1997 Jun; 179(12):3899–913

Genome structure and phylogeny in the genus Brucella. Michaux-Charachon S, et al. **J Bacteriol** 1997 May; 179(10):3244–9

Versatile insertion plasmids for targeted genome manipulations in bacteria: isolation, deletion, and rescue of the pathogenicity island LEE of the Escherichia coli O157:H7 genome. Pósfai G, et al. **J Bacteriol** 1997 Jul; 179(13):4426–8

Integration of heterologous plasmid DNA into multiple sites on the genome of Campylobacter coli following natural transformation. Richardson PT, et al. **J Bacteriol** 1997 Mar; 179(5):1809–12

Physical and genetic chromosomal map of an M type 1 strain of Streptococcus pyogenes. Suvorov AN, et al. **J Bacteriol** 1996 Sep;178(18):5546–9

Cloning and characterization of two immunophilin-like genes, ilpA and fkpA, on a single 3.9-kilobase fragment of Aeromonas hydrophila genomic DNA. Wong CY, et al. **J Bacteriol** 1997 Jun;179(11):3397–403

Investigations on the cell volumes of Azotobacter vinelandii by scanning electron microscopy. Efuet ET, et al. **J Basic Microbiol** 1996;36(4):229–34

Genome macrorestriction analysis of sequential Pseudomonas aeruginosa isolates from bronchiectasis patients without cystic fibrosis. Hla SW, et al. **J Clin Microbiol** 1996 Mar; 34(3):575–8

IS6110 homologs are present in multiple copies in mycobacteria other than tuberculosis-causing mycobacteria. McHugh TD, et al. **J Clin Microbiol** 1997 Jul;35(7):1769–71

Genotypic characterization of five subspecies of Mycobacterium kansasii. Picardeau M, et al. **J Clin Microbiol** 1997 Jan;35(1):25–32

Genotyping of Mycobacterium tuberculosis with additional markers enhances accuracy in epidemiological studies. Warren R, et al. **J Clin Microbiol** 1996 Sep;34(9):2219–24

Genome organisation of Staphylococcus aureus isolates from different populations. El-Adhami W, et al. **J Med Microbiol** 1997 Apr;46(4):297–306

Large genome rearrangements discovered by the detailed analysis of 21 Pseudomonas aeruginosa clone C isolates found in environment and disease habitats. Römling U, et al. **J Mol Biol** 1997 Aug 22;271(3):386–404

Relationships between genomic G+C content, RNA secondary structures, and optimal growth temperature in

prokaryotes. Galtier N, et al. **J Mol Evol** 1997 Jun; 44(6):632–6

Amelioration of bacterial genomes: rates of change and exchange. Lawrence JG, et al. **J Mol Evol** 1997 Apr; 44(4):383–97

Conserved clusters of functionally related genes in two bacterial genomes. Tamames J, et al. **J Mol Evol** 1997 Jan; 44(1):66–73

Unidentified open reading frames in the genome of Methanococcus jannaschii are similar in sequence to an archaebacterial gene for tRNA nucleotidyltransferase. Thurlow DL, et al. **J Mol Evol** 1997 Jun;44(6):686–9

Genome plasticity as a paradigm of eubacteria evolution. Watanabe H, et al. **J Mol Evol** 1997;44 Suppl 1:S57–64

A study of oligonucleotide occurrence distributions in DNA coding segments. Castrignanò T, et al. **J Theor Biol** 1997 Feb 21;184(4):451–69

The detection of nucleotide sequences with strong similarity to hormone responsive elements in the genome of eubacteria and archaebacteria and their possible relation to similar sequences present in the mitochondrial genome. Hatzoglou E, et al. **J Theor Biol** 1997 Feb 7;184(3):339–44

A mathematical model to determine the optimal number of fragments for comparison of bacterial chromosomic macrorestriction patterns. Méndez-Alvarez S, et al. **J Theor Biol** 1997 Apr 7;185(3):367–72

Microbial genome sequencing opens door to new world [news] McCarthy M. **Lancet** 1997 Feb 22;349(9051):548

Genomic rearrangements during evolution of the obligate intracellular parasite Rickettsia prowazekii as inferred from an analysis of 52015 bp nucleotide sequence. Andersson JO, et al. **Microbiology** 1997 Aug;143 (Pt 8):2783–95

Identification of Mycobacterium paratuberculosis gene expression signals. Bannantine JP, et al. **Microbiology** 1997 Mar;143 (Pt 3):921–8

A 32 kb nucleotide sequence from the region of the lincomycin-resistance gene (22 degrees–25 degrees) of the Bacillus subtilis chromosome and identification of the site of the lin-2 mutation. Kumano M, et al. **Microbiology** 1997 Aug;143 (Pt 8):2775–82

Sequence and analysis of a 31 kb segment of the Bacillus subtilis chromosome in the area of the rrnH and rrnG operons. Liu H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2763–7

The European Bacillus subtilis genome sequencing project: current status and accessibility of the data from a new World Wide Web site. Moszer I, et al. **Microbiology** 1996 Nov;142 (Pt 11):2987–91

Genomic relationships between selected phage types of Salmonella enterica subsp. enterica serotype typhimurium defined by ribotyping, IS200 typing and PFGE. Olsen JE, et al. **Microbiology** 1997 Apr;143 (Pt 4):1471–9

Analysis of the Bacillus subtilis genome: cloning and nucleotide sequence of a 62 kb region between 275 degrees (rrnB) and 284 degrees (pai). Oudega B, et al. **Microbiology** 1997 Aug;143 (Pt 8):2769–74

A 23911 bp region of the Bacillus subtilis genome comprising genes located upstream and downstream of the lev operon. Parro V, et al. **Microbiology** 1997 Apr;143 (Pt 4):1321–6

Physical mapping of Mycobacterium bovis BCG pasteur reveals differences from the genome map of Mycobacterium tuberculosis H37Rv and from M. bovis. Philipp WJ, et al. **Microbiology** 1996 Nov;142 (Pt 11):3135–45

A 23.4 kb segment at the 69 degrees–70 degrees region of the Bacillus subtilis genome. Yamamoto H, et al. **Microbiology** 1997 Apr;143 (Pt 4):1317–20

Sequencing of a 65 kb region of the Bacillus subtilis genome containing the lic and cel loci, and creation of a 177 kb contig covering the gnt-sacXY region. Yoshida K, et al. **Microbiology** 1996 Nov;142 (Pt 11):3113–23

A physical and genetic map of Neisseria meningitidis B1940. Gäher M, et al. **Mol Microbiol** 1996 Jan;19(2):249–59

Use of the complete genome sequence information of Haemophilus influenzae strain Rd to investigate lipopolysaccharide biosynthesis. Hood DW, et al. **Mol Microbiol** 1996 Dec;22(5):951–65

Dynamic bacterial genome organization. Kolstø AB. **Mol Microbiol** 1997 Apr;24(2):241–8 (80 ref.)

In the search of Mycoplasma genitalium lost substrate-binding proteins: sequence divergence could be the result of a broader substrate specificity [letter] Saurin W, et al. **Mol Microbiol** 1996 Oct;22(2):389–90

Organizational characteristics and information content of an archaeal genome: 156 kb of sequence from Sulfolobus solfataricus P2. Sensen CW, et al. **Mol Microbiol** 1996 Oct; 22(1):175–91

Protein structural classes in five complete genomes [letter] Frishman D, et al. **Nat Struct Biol** 1997 Aug;4(8):626–8

A bug with excess gastric avidity [news; comment] Doolittle RF. **Nature** 1997 Aug 7;388(6642):515–6. Comment on: Nature 1997 Aug 7;388(6642):539–47.

Data available [letter] Ferretti JJ, et al. **Nature** 1997 Mar 27;386(6623):320

Sequence is all there [letter] Horiuchi T. **Nature** 1997 Apr 24;386(6627):754

E. coli genome sequence. A blueprint for life [news] Moxon ER, et al. **Nature** 1997 Sep 11;389(6647):120–1

Entire E. coli genome sequenced — at last [news] O'Brien C. **Nature** 1997 Feb 6;385(6616):472

The complete genome sequence of the gastric pathogen Helicobacter pylori [see comments] Tomb JF, et al. **Nature** 1997 Aug 7;388(6642):539–47. Comment in: Nature 1997 Aug 7;388(6642):515–6.

Avoidance of palindromic words in bacterial and archaeal genomes: a close connection with restriction enzymes. Gelfand MS, et al. **Nucleic Acids Res** 1997 Jun 15; 25(12):2430–9

Identification of new RNA modifying enzymes by iterative genome search using known modifying enzymes as probes. Gustafsson C, et al. **Nucleic Acids Res** 1996 Oct 1; 24(19):3756–62

Comparative analysis of the genomes of the bacteria Mycoplasma pneumoniae and Mycoplasma genitalium. Himmelreich R, et al. **Nucleic Acids Res** 1997 Feb 15; 25(4):701–12

Complete sequence analysis of the genome of the bacterium Mycoplasma pneumoniae. Himmelreich R, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4420–49

Frequent oligonucleotides and peptides of the Haemophilus influenzae genome. Karlin S, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4263–72

Compilation of DNA sequences of Escherichia coli K12: description of the interactive databases ECD and ECDC (update 1996). Kröger M, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):39–42

How to alter the bacterial genome structure. Itaya M, et al. **Nucleic Acids Symp Ser** 1995;(34):243–4

Experimental surgery to create subgenomes of Bacillus subtilis 168. Itaya M, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5378–82

The minimal cell genome: "on being the right size" [comment] Maniloff J. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10004–6 (25 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10268–73.

A minimal gene set for cellular life derived by comparison of complete bacterial genomes [see comments] Mushegian AR, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10268–73. Comment in: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10004–5.

Dealing with database explosion: a cautionary note [letter; comment] Bhatia U, et al. **Science** 1997 Jun 13; 276(5319):1724–5. Comment on: Science 1996 Aug 23;273(5278):1058–73.

The complete genome sequence of Escherichia coli K–12 [comment] Blattner FR, et al. **Science** 1997 Sep 5; 277(5331):1453–74. Comment on: Science 1997 Sep 5;277(5331):1432–4.

Methanococcus genome [letter; comment] Lake JA, et al. **Science** 1996 Nov 8;274(5289):901; discussion 902–3. Comment on: Science 1996 Aug 23;273(5278):1058–73.

Laboratory workhorse decoded [news; comment] Pennisi E. **Science** 1997 Sep 5;277(5331):1432–4. Comment on: Science 1997 Sep 5;27(5331):1453–74.

Microbial pathogenesis: genomics and beyond. Strauss EJ, et al. **Science** 1997 May 2;276(5313):707–12 (29 ref.)

Gram-positive bacterium sequenced [news] Williams N. **Science** 1997 Jul 25;277(5325):478

Lessons from an Archaeal genome: what are we learning from Methanococcus jannaschii? Olsen GJ, et al. **Trends Genet** 1996 Oct;12(10):377–9 (14 ref.)

Microbial genomes. **Trends Microbiol** 1997 Jul;5(7):267

Year of the genome. Ash C. **Trends Microbiol** 1997 Apr; 5(4):135–9 (7 ref.)

Microbial genomics: the floodgates open. Metting FB, et al. **Trends Microbiol** 1997 Mar;5(3):91–2

Why sequence the genome of Mycobacterium tuberculosis? Cole ST. **Tuber Lung Dis** 1996 Dec;77(6):486–90 (46 ref.)

Genomic analysis using pulsed-field gel electrophoresis of Escherichia coli 0157: H7 isolated from dairy calves during the United State National Dairy Heifer Evaluation Project (1992–1992). Lee MS, et al. **Vet Microbiol** 1996 Feb; 48(3–4):223–30

Molecular biology of Mycoplasma. Christiansen G, et al. **Wien Klin Wochenschr** 1997 Aug 8;109(14–15):557–61 (23 ref.)

Comparative genomics of mycoplasmas. Razin S. **Wien Klin Wochenschr** 1997 Aug 8;109(14–15):551–6 (21 ref.)

[Multi-drug resistance of serovar E strains in clinically isolated Pseudomonas aeruginosa and analysis of genome pattern] Mogi T, et al. **Rinsho Byori** 1996 Feb;44(2):147–52 (Eng. Abstr.) **(Jpn)**

[Complete genome sequence of a cyanobacterium Synechocystis sp. PCC 6803, the oxygenic photosynthetic prokaryote] Ikeuchi M. **Tanpakushitsu Kakusan Koso** 1996 Dec;41(16):2579–83 (9 ref.) **(Jpn)**

[How do bacteriophages recognize and package their own genome DNA?] Morita M, et al. **Tanpakushitsu Kakusan Koso** 1997 Mar;42(4):609–18 (32 ref.) **(Jpn)**

[What we can learn from the whole genome sequence of an archaeon Methanococcus jannaschii] Yamagishi A, et al. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(2):174–7 (14 ref.) **(Jpn)**

[A model of phase modulation of high frequency nucleoid oscillations in reactions of E. coli cells to weak static and low-frequency magnetic fields] Matronchik AIu, et al. **Biofizika** 1996 May-Jun;41(3):642–9 (Eng. Abstr.) **(Rus)**

[Identification and classification of strains of microorganisms using genomic fingerprinting with biotinylated phage M13 DNA] Oreshkova SF, et al. **Genetika** 1996 Jun;32(6):740–3 (Eng. Abstr.) **(Rus)**

[Prevalence of IS285 and IS100 in Yersinia pestis and Yersinia pseudotuberculosis genomes] Bobrov AG, et al. **Mol Gen Mikrobiol Virusol** 1997;(2):36–40 (Eng. Abstr.) **(Rus)**

[Genomic polymorphism in the resolution of the fundamental and applied problems of microbiology and epidemiology] Shaginian IA. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May-Jun;(3):21–4 (Eng. Abstr.) **(Rus)**

[Genomic polymorphism in Mycobacterium tuberculosis strains] Shaginian IA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May-Jun; (3):65–8 (Eng. Abstr.) **(Rus)**

GENOME, FUNGAL

Characterization of the yeast transcriptome. Velculescu VE, et al. **Cell** 1997 Jan 24;88(2):243–51

Integrated map of the Schizosaccharomyces pombe genome. Garkavtsev I, et al. **Chromosoma** 1997 Sep;106(4):254–65

The complete code for a eukaryotic cell. Genome sequencing. Johnston M. **Curr Biol** 1996 May 1;6(5):500–3 (29 ref.)

Keeping the centrosome cycle on track. Genome stability. Winey M. **Curr Biol** 1996 Aug 1;6(8):962–4 (13 ref.)

The yeast ORF YDL202w codes for the mitochondrial ribosomal protein YmL11. Bui DM, et al. **Curr Genet** 1997 May;31(5):396–400

The fungal mitochondrial genome project: evolution of fungal mitochondrial genomes and their gene expression. Paquin B, et al. **Curr Genet** 1997 May;31(5):380–95

Exploiting the complete yeast genome sequence. Bassett DE Jr, et al. **Curr Opin Genet Dev** 1996 Dec;6(6):763–6 (20 ref.)

From gene to screen with yeast. Oliver SG. **Curr Opin Genet Dev** 1997 Jun;7(3):405–9 (49 ref.)

Proteome analysis of Saccharomyces cerevisiae: a methodological outline. Fey SJ, et al. **Electrophoresis** 1997 Aug;18(8):1361–72

Proteome studies of Saccharomyces cerevisiae: identification and characterization of abundant proteins. Garrels JI, et al. **Electrophoresis** 1997 Aug;18(8):1347–60

Yeasties and beasties: 7 years of genome sequencing. Thomas K. **FEBS Lett** 1996 Oct 28;396(1):1–6 (36 ref.)

From genes to genomes: sequencing of filamentous fungal genomes. Hamer L. **Fungal Genet Biol** 1996 Feb;21(1):8–10

Multicellular ascomycetous fungal genomes contain more than 8000 genes. Kupfer DM, et al. **Fungal Genet Biol** 1997 Jun;21(3):364–72

The genome and genes of Neurospora crassa. Radford A, et al. **Fungal Genet Biol** 1997 Jun;21(3):258–66 (50 ref.)

Genome analysis in Neurospora crassa; cloning of four loci arginine-1 (arg-1), methionine-6 (met-6), unknown-7 (un-7), and ribosome production-1 (rip-1) and associated chromosome walking. Schmidhauser TJ, et al. **Fungal Genet Biol** 1997 Jun;21(3):323–8

A Candida albicans genome project: cosmid contigs, physical mapping, and gene isolation. Tait E, et al. **Fungal Genet Biol** 1997 Jun;21(3):308–14

Genome analysis on linkage group VI of Neurospora crassa. Wan Y, et al. **Fungal Genet Biol** 1997 Jun;21(3):329–36

Genomic organization of the fungus Phycomyces. Avalos J, et al. **Gene** 1996 Sep 26;174(1):43–50

Distribution and variability of trinucleotide repeats in the genome of the yeast Saccharomyces cerevisiae. Richard GF, et al. **Gene** 1996 Sep 26;174(1):165–74

Fission yeast WD-repeat protein pop1 regulates genome ploidy through ubiquitin-proteasome-mediated degradation of the CDK inhibitor Rum1 and the S-phase initiator Cdc18. Kominami K, et al. **Genes Dev** 1997 Jun 15;11(12):1548–60

A novel Ty1-mediated fragmentation method for native and artificial yeast chromosomes reveals that the mouse steel gene is a hotspot for Ty1 integration. Dalgaard JZ, et al. **Genetics** 1996 Jun;143(2):673–83

Genomic libraries and a host strain designed for highly efficient two-hybrid selection in yeast. James P, et al. **Genetics** 1996 Dec;144(4):1425–36

SGS1, a homologue of the Bloom's and Werner's syndrome genes, is required for maintenance of genome stability in Saccharomyces cerevisiae. Watt PM, et al. **Genetics** 1996 Nov;144(3):935–45

Very fast identification of RNA motifs in genomic DNA. Application to tRNA search in the yeast genome. el-Mabrouk N, et al. **J Mol Biol** 1996 Nov 22;264(1):46–55

Genomic yeast DNA clone banks. Construction and gene isolation. Bignell GR, et al. **Methods Mol Biol** 1996; 53:155–87 (21 ref.)

Genetic constitution of industrial yeast. Benítez T, et al. **Microbiologia** 1996 Sep;12(3):371–84 (41 ref.)

Yeast as a navigational aid in genome analysis. 1996 Kathleen Barton-Wright Memorial Lecture. Oliver SG. **Microbiology** 1997 May;143 (Pt 5):1483–7

Evolution of mitochondrial genomes in yeast: a study of mitochondrial divergence in two closely related species, Saccharomyces douglasii and Saccharomyces cerevisiae [letter] Cardazzo B, et al. **Mol Biol Evol** 1997 Feb; 14(2):200–3

Stability of a CTG/CAG trinucleotide repeat in yeast is dependent on its orientation in the genome. Freudenreich CH, et al. **Mol Cell Biol** 1997 Apr;17(4):2090–8

Integration of an insertion-type transferred DNA vector from Agrobacterium tumefaciens into the Saccharomyces cerevisiae genome by gap repair. Risseeuw E, et al.

GENOME, FUNGAL

Mol Cell Biol 1996 Oct;16(10):5924–32

A meiotically reproducible chromosome length polymorphism in the ascomycete fungus Ophiostoma ulmi (sensu lato). Dewar K, et al. **Mol Gen Genet** 1997 Jun; 255(1):38–44

Transcription elongation factor S–II is not required for transcription–coupled repair in yeast. Verhage RA, et al. **Mol Gen Genet** 1997 Apr 16;254(3):284–90

Entering the total–genomic era [editorial] **Nat Genet** 1997 Feb;15(2):111–2

Looms to weave genomic nets [news; comment] Brent R. **Nat Genet** 1997 Jul;16(3):216–7. Comment on: Nat Genet 1997 Jul;16(3):277–81.

Toward a functional analysis of the yeast genome through exhaustive two–hybrid screens [see comments] Fromont–Racine M, et al. **Nat Genet** 1997 Jul;16(3):277–82 . Comment in: Nat Genet 1997 Jul;16(3):216–7.

Protein structural classes in five complete genomes [letter] Frishman D, et al. **Nat Struct Biol** 1997 Aug;4(8):626–8

The yeast genome directory. **Nature** 1997 May 29;387(6632 Suppl):5

The first genome from the third domain of life [news] Clayton RA, et al. **Nature** 1997 May 29;387(6632):459–62

Biology's new Rosetta stone [letter] Das S, et al. **Nature** 1997 Jan 2;385(6611):29–30

Overview of the yeast genome [published erratum appears in Nature 1997 Jun 12;387(6634):737] Mewes HW, et al. **Nature** 1997 May 29;387(6632 Suppl):7–65

Molecular evidence for an ancient duplication of the entire yeast genome. Wolfe KH, et al. **Nature** 1997 Jun 12; 387(6634):708–13

Variations of the C2H2 zinc finger motif in the yeast genome and classification of yeast zinc finger proteins. Böhm S, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2464–9

MIPS: a database for protein sequences, homology data and yeast genome information. Mewes HW, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):28–30

Integration of Agrobacterium tumefaciens T–DNA in the Saccharomyces cerevisiae genome by illegitimate recombination. Bundock P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15272–5

Yeast homologues of higher eukaryotic TFIID subunits. Moqtaderi Z, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14654–8

Linking genome and proteome by mass spectrometry: large–scale identification of yeast proteins from two dimensional gels. Shevchenko A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14440–5

Molecular typing of Candida albicans strains isolated from nosocomial candidemia. Branchini ML, et al. **Rev Inst Med Trop Sao Paulo** 1995 Nov–Dec;37(6):483–7

Life with 6000 genes [see comments] Goffeau A, et al. **Science** 1996 Oct 25;274(5287):546, 563–7 (86 ref.). Comment in: Science 1997 Feb 21;275(5303):1051–2.

Dynamic molecular combing: stretching the whole human genome for high–resolution studies. Michalet X, et al. **Science** 1997 Sep 5;277(5331):1518–23

The protein kinases of budding yeast: six score and more. Hunter T, et al. **Trends Biochem Sci** 1997 Jan;22(1):18–22 (39 ref.)

The yeast genome project: what did we learn? Dujon B. **Trends Genet** 1996 Jul;12(7):263–70 (42 ref.)

A network approach to the systematic analysis of yeast gene function. Oliver S. **Trends Genet** 1996 Jul;12(7):241–2

Saccharomyces sapiens. Richards W. **Trends Genet** 1997 Feb; 13(2):49–50

The Saccharomyces cerevisiae genome on the World Wide Web. Walsh S, et al. **Trends Genet** 1996 Jul;12(7):276–7

A computer filtering method to drive out tiny genes from the yeast genome. Barry C, et al. **Yeast** 1996 Sep 15; 12(11):1163–78

1996: a vintage year for yeast and Yeast [editorial] Goffeau A. **Yeast** 1996 Dec;12(16):1603–5

Lambda clone B22 contains a 7676 bp genomic fragment of Saccharomyces cerevisiae chromosome VII spanning the VAM7–SPM2 intergenic region and containing three novel transcribed open reading frames. Kail M, et al. **Yeast** 1996 Jun 30;12(8):799–807

Genomic reorganization between two sibling yeast species, Saccharomyces bayanus and Saccharomyces cerevisiae. Ryu SL, et al. **Yeast** 1996 Jun 30;12(8):757–64

PCR–synthesis of marker cassettes with long flanking homology regions for gene disruptions in S. cerevisiae. Wach A. **Yeast** 1996 Mar 15;12(3):259–65

[Present status and the future of the whole genome analysis of Saccharomyces cerevisiae] Ogasawara N, et al. **Tanpakushitsu Kakusan Koso** 1997 Mar;42(4):673–8 (34 ref.) **(Jpn)**

GENOME, HUMAN

Nuclear oncology and the Imagene concept. Urbain JL, et al. **Acta Radiol Suppl** 1997;412:21–8 (71 ref.)

The activin receptor–like kinase 1 gene: genomic structure and mutations in hereditary hemorrhagic telangiectasia type 2. Berg JN, et al. **Am J Hum Genet** 1997 Jul;61(1):60–7

Genomic variation and gene conversion in spinal muscular atrophy: implications for disease process and clinical phenotype. Campbell L, et al. **Am J Hum Genet** 1997 Jul; 61(1):40–50

Mutational analysis of the human mitochondrial genome branches into the realm of bacterial genetics [editorial; comment] Howell N. **Am J Hum Genet** 1996 Oct; 59(4):749–55. Comment on: Am J Hum Genet 1996 Oct;59(4):772–80.

A follow–up report of a genome search for affective disorder predisposition loci in the Old Order Amish. LaBuda MC, et al. **Am J Hum Genet** 1996 Dec;59(6):1343–62

Identification of the human chromosomal region containing the iridogoniodysgenesis anomaly locus by genomic–mismatch scanning. Mirzayans F, et al. **Am J Hum Genet** 1997 Jul;61(1):111–9

True and false positive peaks in genomewide scans: applications of length–biased sampling to linkage mapping. Terwilliger JD, et al. **Am J Hum Genet** 1997 Aug; 61(2):430–8

Improved set of short–tandem–repeat polymorphisms for screening the human genome [letter] Yuan B, et al. **Am J Hum Genet** 1997 Feb;60(2):459–60

Imprinting is also a mechanism for immediate or delayed hemizygous expression of several uniparental haplotypes selected from the genome of each sex [letter] Engel E. **Am J Med Genet** 1997 May 2;70(1):95–8

Bias in the genomic distribution of CAG and CTG trinucleotide repeats. O'Donovan MC, et al. **Am J Med Genet** 1997 Feb 21;74(1):62–4

The functional matrix hypothesis revisited. 3. The genomic thesis. Moss ML. **Am J Orthod Dentofacial Orthop** 1997 Sep;112(3):338–42 (0 ref.)

Site 73 in hypervariable region II of the human mitochondrial genome and the origin of European populations. Wilkinson–Herbots HM, et al. **Ann Hum Genet** 1996 Nov; 60 (Pt 6):499–508

Long–range amplification of genomic DNA detects the t(2;5)(p23;q35) in anaplastic large–cell lymphoma, but not in other non–Hodgkin's lymphomas, Hodgkin's disease, or lymphomatoid papulosis. Sarris AH, et al. **Ann Oncol** 1997; 8 Suppl 2:59–63

Molecular cloning and chromosomal mapping of olfactory receptor genes expressed in the male germ line: evidence for their wide distribution in the human genome. Vanderhaeghen P, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):283–7

It's the genes! EST access to human genome content. Gerhold D, et al. **Bioessays** 1996 Dec;18(12):973–81 (46 ref.)

EST! EST!! EST!!! Hartl DL. **Bioessays** 1996 Dec; 18(12):1021–3 (13 ref.)

Amplification of 4–9–kb human genomic DNA flanking a known site using a panhandle PCR variant. Jones DH, et al. **Biotechniques** 1997 Jul;23(1):132–8

Genomic sequence and transcription start site for the human gamma–glutamyl carboxylase. Wu SM, et al. **Blood** 1997 Jun 1;89(11):4058–62

Science, medicine, and the future. Prospecting for gold in the human genome. Savill J. **BMJ** 1997 Jan 4; 314(7073):43–5 (0 ref.)

Interpreting genetic variability: the effects of shared evolutionary history. Donnelly P. **Ciba Found Symp** 1996; 197:25–40; discussion 40–50 (42 ref.)

Cladistic approaches to identifying determinants of variability in multifactorial phenotypes and the evolutionary significance of variation in the human genome. Templeton AR. **Ciba Found Symp** 1996;197:259–77; discussion 277–83 (51 ref.)

Variation in the human genome, Introduction. Weiss KM. **Ciba Found Symp** 1996;197:1–5

PROFILER: a tool for automatic searching of internally maintained databases. Blevins R, et al. **Comput Appl Biosci** 1995 Dec;11(6):667–73

Mapdiff: determining differences between two genomic maps. Nadkarni PM. **Comput Appl Biosci** 1997 Jun;13(3):217–25

Turn to the worm! Ahringer J. **Curr Opin Genet Dev** 1997 Jun;7(3):410–5 (42 ref.)

Conservation of human vs. feline genome organization revealed by reciprocal chromosome painting. Wienberg J, et al. **Cytogenet Cell Genet** 1997;77(3–4):211–7

Identification and characterization of a novel hsc70–like gene in the human lung tumor cell line HS24. Schulte AM, et al. **DNA Cell Biol** 1997 Mar;16(3):257–68

Assessment of human gene diversity and expression patterns using expressed sequence tags. Kirkness EF. **Essays Biochem** 1996;31:1–9 (12 ref.)

Alternative translation initiation codon for the human melanocortin MC3 receptor does not affect the ligand binding. Schiöth HB, et al. **Eur J Pharmacol** 1996 Oct 31; 314(3):381–4

Buffon's needle statistics are not applicable to calculate the mutation rate or the number of structural genes in the human genome [letter; comment] Vickers M. **Exp Hematol** 1996 Sep;24(11):1272–4. Comment on: Exp Hematol 1996 Feb;24(3):403–5.

Complementary DNA sequence (EST) collections and the expression information of the human genome. Okubo K, et al. **FEBS Lett** 1997 Feb 24;403(3):225–9 (33 ref.)

Human BAC library: construction and rapid screening. Asakawa S, et al. **Gene** 1997 May 20;191(1):69–79

Identification of the gene–richest bands in human chromosomes [published erratum appears in Gene 19997 Feb 20;186(1):151] Saccone S, et al. **Gene** 1996 Sep 26; 174(1):85–94

The gene distribution of the human genome. Zoubak S, et al. **Gene** 1996 Sep 26;174(1):95–102

Primary vs. secondary neoplasia–associated chromosomal abnormalities––balanced rearrangements vs. genomic imbalances? Johansson B, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):155–63

Affected–sib–pair interval mapping and exclusion for complex genetic traits: sampling considerations. Hauser ER, et al. **Genet Epidemiol** 1996;13(2):117–37

Human phylogenetic relationships according to the D1S80 locus. Duncan G, et al. **Genetica** 1996–97;98(3):277–87

Toward the development of a gene index to the human genome: an assessment of the nature of high–throughput EST sequence data. Aaronson JS, et al. **Genome Res** 1996 Sep;6(9):829–45

The end of the beginning: the race to begin human genome sequencing [editorial] Boguski M, et al. **Genome Res** 1996 Sep;6(9):771–2

A physical map of human chromosome 7: an integrated YAC contig map with average STS spacing of 79 kb. Bouffard GG, et al. **Genome Res** 1997 Jul;7(7):673–92

Identification and chromosomal localization of human genes containing CAG/CTG repeats expressed in testis and brain. Bulle F, et al. **Genome Res** 1997 Jul;7(7):705–15

Cloning of 559 potential exons of genes of human chromosome 21 by exon trapping. Chen H, et al. **Genome Res** 1996 Aug;6(8):747–60

A transcript map for the 2.8–Mb region containing the multiple endocrine neoplasia type 1 locus [letter] Guru SC, et al. **Genome Res** 1997 Jul;7(7):725–35

Genotator: a workbench for sequence annotation. Harris NL. **Genome Res** 1997 Jul;7(7):754–62

Generation and analysis of 280,000 human expressed sequence tags. Hillier LD, et al. **Genome Res** 1996 Sep; 6(9):807–28

Hybrid selection as a method of increasing mapping power for radiation hybrids. Jones HB. **Genome Res** 1996 Aug; 6(8):761–9

Discovering distinct genes represented in 29,570 clones from infant brain cDNA libraries by applying sequencing by hybridization methodology. Milosavljevic A, et al. **Genome Res** 1996 Feb;6(2):132–41

Identification of a novel paternally expressed transcript adjacent to snRPN in the Prader–Willi syndrome critical region. Ning Y, et al. **Genome Res** 1996 Aug;6(8):742–6

Perspectives: sequence data base searching in the era of large–scale genomic sequencing. Smith RF. **Genome Res** 1996 Aug;6(8):653–60 (44 ref.)

An STS–based radiation hybrid map of the human genome. Stewart EA, et al. **Genome Res** 1997 May;7(5):422–33

Human whole–genome shotgun sequencing. Weber JL, et al. **Genome Res** 1997 May;7(5):401–9

Characterization of Alu repeats that are associated with trinucleotide and tetranucleotide repeat microsatellites. Yandava CN, et al. **Genome Res** 1997 Jul;7(7):716–24

The mappers' torch song. Yu J, et al. **Genome Res** 1997 Jul; 7(7):666–8 (22 ref.)

Identification of endogenous retroviral sequences based on modular organization: proviral structure at the SSAV1 locus. Blusch JH, et al. **Genomics** 1997 Jul 1;43(1):52–61

The d4 gene family in the human genome. Chestkov AV, et al. **Genomics** 1996 Aug 15;36(1):174–7

Genomic structure and chromosomal localization of the novel ETS factor, PE–2 (ERF). de Castro CM, et al. **Genomics** 1997 Jun 1;42(2):227–35

Ethical issues in international collaborative research on the human genome: the HGP and the HGDP. Knoppers BM, et al. **Genomics** 1996 Jun 1;34(2):272–82

The human hepatocyte nuclear factor 3/fork head gene FKHL13: genomic structure and pattern of expression. Murphy DB, et al. **Genomics** 1997 Mar 15;40(3):462–9

Genomic structure and organization of the human rBAT gene (SLC3A1). Purroy J, et al. **Genomics** 1996 Oct 15; 37(2):249–52

Genomic structure of the human lysosomal alpha–mannosidase gene (MANB). Riise HM, et al. **Genomics** 1997 Jun 1;42(2):200–7

Analysis of the 5' sequence, genomic structure, and alternative splicing of the presenilin–1 gene (PSEN1) associated with early onset Alzheimer disease. Rogaev EI, et al. **Genomics** 1997 Mar 15;40(3):415–24

Mouse euchromatin specific "genome–painting" with a LINE probe: a rapid method for identification and mapping of human chromosomes in mouse–human microcell hybrids by two–color FISH. Katona R, et al. **Hereditas** 1996; 124(2):131–5

Genomic screening for beta–sarcoglycan gene mutations: missense mutations may cause severe limb–girdle muscular dystrophy type 2E (LGMD 2E). Bönnemann CG, et al. **Hum Mol Genet** 1996 Dec;5(12):1953–61

Computational methods for the identification of genes in vertebrate genomic sequences. Claverie JM. **Hum Mol Genet** 1997;6(10):1735–44 (100 ref.)

A fine–scale comparison of the human and chimpanzee genomes: linkage, linkage disequilibrium and sequence analysis. Crouau–Roy B, et al. **Hum Mol Genet** 1996 Aug; 5(8):1131–7

A high resolution CEPH crossover mapping panel and integrated map of chromosome 11. Fain PR, et al. **Hum Mol Genet** 1996 Oct;5(10):1631–6

A radiation hybrid map of the human genome. Gyapay G, et al. **Hum Mol Genet** 1996 Mar;5(3):339–46

Identification of a transcriptional enhancer within muscle intron 1 of the human dystrophin gene. Klamut HJ, et al. **Hum Mol Genet** 1996 Oct;5(10):1599–606

Survey of maximum CTG/CAG repeat lengths in humans and non-human primates: total genome scan in populations using the Repeat Expansion Detection method. Sirugo G, et al. **Hum Mol Genet** 1997 Mar;6(3):403–8

Mapping of the human IL10 gene and further characterization of the 5' flanking sequence. Eskdale J, et al. **Immunogenetics** 1997;46(2):120–8

Promoter region of the human eosinophil cationic protein gene. Itoh S, et al. **Immunogenetics** 1997;46(2):156–8

Genomic organization, chromosomal mapping, and analysis of the 5' promoter region of the human MAdCAM-1 gene. Leung E, et al. **Immunogenetics** 1997;46(2):111–9

The gene for the ligand binding chain of the human interferon gamma receptor. Merlin G, et al. **Immunogenetics** 1997; 45(6):413–21

Cloning of a new human gene with short consensus repeats using the EST database. Nangaku M, et al. **Immunogenetics** 1997;46(2):99–103

The human natural killer gene complex (NKC) is located on chromosome 12p13.1–p13.2. Suto Y, et al. **Immunogenetics** 1997;46(2):159–62

Large-scale comparative mapping of the MHC class I region of predominant haplotypes in Japanese. Watanabe Y, et al. **Immunogenetics** 1997;46(2):135–41

GENOLYTE: a PC-based computer program for visualisation of genomic DNA sequences. Gupta SK, et al. **Indian J Biochem Biophys** 1996 Apr;33(2):152–5

Genomic deletion and p53 inactivation in cervical carcinoma. Ku WH, et al. **Int J Cancer** 1997 Jul 17;72(2):270–6

Natural inactivation of a common HLA allele (A*2402) has occurred on at least three separate occasions. Magor KE, et al. **J Immunol** 1997 Jun 1;158(11):5242–50

Interferon-alpha 8b is the only variant of interferon-alpha 8 identified in a large human population. Hussain M, et al. **J Interferon Cytokine Res** 1996 Jul;16(7):523–9

Identification of interferon-alpha 7, -alpha 14, and -alpha 21 variants in the genome of a large human population. Hussain M, et al. **J Interferon Cytokine Res** 1996 Oct; 16(10):853–9

Determination of interferon-alpha2 allele composition in the genomic DNA from healthy volunteers and leukemic patients in Japan. Kita M, et al. **J Interferon Cytokine Res** 1997 Mar;17(3):135–40

Prediction of complete gene structures in human genomic DNA. Burge C, et al. **J Mol Biol** 1997 Apr 25;268(1):78–94

Two cardiac natriuretic peptide genes (atrial natriuretic peptide and brain natriuretic peptide) are organized in tandem in the mouse and human genomes. Tamura N, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1811–5

Molecular evidence from the nuclear genome for the time frame of human evolution. Easteal S, et al. **J Mol Evol** 1997;44 Suppl 1:S121–32

Computational gene identification. Guigó R. **J Mol Med** 1997 Jun;75(6):389–93

DNA diagnosis of human genetic individuality. Pena SD, et al. **J Mol Med** 1995 Nov;73(11):555–64 (100 ref.)

Genomic instability, mutators, and the development of cancer: is there a role for p53? [editorial; comment] Fishel R. **J Natl Cancer Inst** 1996 Nov 20;88(22):1608–9. Comment on: J Natl Cancer Inst 1996 Nov 20;88(22):1665–70.

Genomic alterations in human glioma cell lines detected by restriction landmark genomic scanning. Nakamura M, et al. **J Neurooncol** 1997 Sep;34(3):203–9

The probability of occurrence of oligomer motifs in the human genome and genomic microheterogeneity. MacLeod MC, et al. **J Theor Biol** 1996 Aug 21;181(4):311–8

Adeno-associated virus Rep proteins target DNA sequences to a unique locus in the human genome. Surosky RT, et al. **J Virol** 1997 Oct;71(10):7951–9

Binding sites for adeno-associated virus Rep proteins within the human genome. Wonderling RS, et al. **J Virol** 1997 Mar;71(3):2528–34

Molecular neurogenetics: the genome is settling the issue [editorial; comment] Rosenberg RN. **JAMA** 1997 Oct 15; 278(15):1282–3. Comment on: JAMA 1997 Oct 15;278(15):1237–41. Comment on: JAMA 1997 Oct 15;278(15):1256–61.

Debate round-table. Appropriate controls for RT-PCR [comment] Kidd V, et al. **Leukemia** 1997 Jun;11(6):871–81 . Comment on: Leukemia 1996 Sep;10(9):1527–8. Comment on: Leukemia 1996 Nov;10(11):1841–2.

Genomic individuality and its biological implications. Zhao J. **Med Hypotheses** 1996 Jun;46(6):499–502

Gene mapping and isolation. Access to databases. Bishop MJ. **Methods Mol Biol** 1997;68:237–59

Use of dinucleotide polymorphism analyses in physical mapping. Fairman J, et al. **Methods Mol Biol** 1997; 68:149–57

The TIGR human cDNA database. Kirkness EF, et al. **Methods Mol Biol** 1997;69:261–8

Genomic organization of the human DDX13 gene located between RD and RP1 in the class III MHC complex. Lee SG, et al. **Mol Cells** 1997 Jun 30;7(3):414–8

Members of the pogo superfamily of DNA-mediated transposons in the human genome. Robertson HM. **Mol Gen Genet** 1996 Oct 28;252(6):761–6

TIGR releases EST data publicly [news] **Nat Biotechnol** 1997 May;15(5):397

Keeping pace with genomics through combinatorial chemistry. Gold L, et al. **Nat Biotechnol** 1997 Apr;15(4):297

A genome-wide search for asthma susceptibility loci in ethnically diverse populations. The Collaborative Study on the Genetics of Asthma (CSGA). **Nat Genet** 1997 Apr; 15(4):389–92

Entering the total-genomic era [editorial] **Nat Genet** 1997 Feb;15(2):111–2

Intelligent linkage analysis using gene density estimates [letter; comment] Inglehearn CF. **Nat Genet** 1997 May; 16(1):15. Comment on: Nat Genet 1994 Nov;8(3):211–2.

Leaving Kansas ... finding genes in 1997 [news] King MC. **Nat Genet** 1997 Jan;15(1):8–10

Of men in mice [news; comment] Rastan S. **Nat Genet** 1997 Jun;16(2):113–4. Comment on: Nat Genet 1997 Jun;16(2):133–43.

The genetical archaeology of the human genome. von Haeseler A, et al. **Nat Genet** 1996 Oct;14(2):135–40 (58 ref.)

The other human genome: mitochondrial DNA and disease [see comments] Johns DR. **Nat Med** 1996 Oct;2(10):1065–8 (20 ref.). Comment in: Nat Med 1997 Feb;3(2):124–5.

Rapid construction of genome maps. Perlin MW. **Nat Med** 1997 Sep;3(9):1046–8 (26 ref.)

HUGO warning over broad patents on gene sequences [news] **Nature** 1997 May 22;387(6631):326

Germany rejects genome data 'isolation' [news] Abbott A. **Nature** 1997 Jun 5;387(6633):536

France unveils plans for 'strategic' gene sequencing centre [news] Butler D. **Nature** 1996 Oct 10;383(6600):466

Collins' student sanctioned over 'most severe' case of fraud [news] Dalton R. **Nature** 1997 Jul 24;388(6640):313

Genome patents [letter; comment] Joly PB, et al. **Nature** 1996 Dec 19–26;384(6610):608. Comment on: Nature 1996 Apr 4;380(6573):387–8.

Detection of expanded CAG repeats in bipolar affective disorder using the repeat expansion detection (RED) method. Lindblad K, et al. **Neurobiol Dis** 1995 Feb; 2(1):55–62

5-HT receptor classification and nomenclature: towards a harmonization with the human genome. Hoyer D, et al. **Neuropharmacology** 1997 Apr-May;36(4–5):419–28 (65 ref.)

The GDB Human Genome Database Anno 1997. Fasman KH, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):72–81

A comparison of expressed sequence tags (ESTs) to human genomic sequences. Wolfsberg TG, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1626–32

Differential display of genome subsets containing specific interspersed repeats. Broude NE, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4548–53

Whole genome amplification using a degenerate oligonucleotide primer allows hundreds of genotypes to be performed on less than one nanogram of genomic DNA. Cheung VG, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14676–9

A metric map of humans: 23,500 loci in 850 bands. Collins A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14771–5

A complete genome screen for genes predisposing to severe bipolar disorder in two Costa Rican pedigrees. McInnes LA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13060–5

Isolation of human and mouse genes based on homology to REC2, a recombinational repair gene from the fungus Ustilago maydis. Rice MC, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7417–22

DNA typing in thirty seconds with a microfabricated device. Schmalzing D, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10273–8

Human trophoblast and choriocarcinoma expression of the growth factor pleiotrophin attributable to germ-line insertion of an endogenous retrovirus. Schulte AM, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14759–64

ELL2, a new member of an ELL family of RNA polymerase II elongation factors. Shilatifard A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3639–43

Specific chromosomal imbalances in human papillomavirus-transfected cells during progression toward immortality. Solinas-Toldo S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3854–9

Gene identification and DNA sequence analysis in the GC-poor 20 megabase region of human chromosome 21. Yu J, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):6862–7

A genome-wide search for linkage in a large bipolar family: comparison of genotyping accuracy using di- and tetranucleotide repeat microsatellite markers. He L, et al. **Psychiatr Genet** 1996 Fall;6(3):123–9

Selection for genome instability by DNA damage in human cells: unstable microsatellites and their consequences for tumourigenesis. Hampson R. **Radiat Oncol Investig** 1997; 5(3):111–4 (16 ref.)

Delayed expression of lethal mutations and genomic instability in the progeny of human epithelial cells that survived in a bystander-killing environment. Seymour CB, et al. **Radiat Oncol Investig** 1997;5(3):106–10

Discovering genes for new medicines. Haseltine WA. **Sci Am** 1997 Mar;276(3):92–7

Genomic sequence information should be released immediately and freely in the public domain. Bentley DR. **Science** 1996 Oct 25;274(5287):533–4

Whose genes are they and how can we identify them? [letter; comment] Botkin JR. **Science** 1996 Nov 8;274(5289):903–4 . Comment on: Science 1996 Sep 27;273(5283):1788–9.

Whose genes are they and how can we identify them? [letter; comment] Gut IG. **Science** 1996 Nov 8;274(5289):904. Comment on: Science 1996 Sep 27;273(5283):1788–9.

New funds plant seeds for genome research effort [news] Kahn P. **Science** 1997 Jan 3;275(5296):25–6

Human genome agreements [letter; comment] Lorimer BG. **Science** 1997 Jan 31;275(5300):601–2. Comment on: Science 1996 Nov 29;274(5292):1456.

Is data-hoarding slowing the assault on pathogens? [news] [see comments] Marshall E. **Science** 1997 Feb 7; 275(5301):777–80. Comment in: Science 1997 Mar 28;275(5308):1861–2.

Companies rush to patent DNA [news] Marshall E. **Science** 1997 Feb 7;275(5301):780–1

The human gene hunt scales up [news] [see comments] Marshall E. **Science** 1996 Nov 29;274(5292):1456. Comment in: Science 1997 Jan 31;275(5300):601–2.

Sniping away at genome patenting [news] Marshall E. **Science** 1997 Sep 19;277(5333):1752–3

Dynamic molecular combing: stretching the whole human genome for high-resolution studies. Michalet X, et al. **Science** 1997 Sep 5;277(5331):1518–23

A gene map of the human genome. Schuler GD, et al. **Science** 1996 Oct 25;274(5287):540–6 (45 ref.)

Genome maps 7. The human transcript map. Wall chart. Schuler GD, et al. **Science** 1996 Oct 25;274(5287):547–62

Landing on the genome [editorial] Weissenbach J. **Science** 1996 Oct 25;274(5287):479

Transcribed sequences encoded in the region involved in contiguous deletion syndrome that comprises X-linked stapes fixation and deafness. Kandpal G, et al. **Somat Cell Mol Genet** 1996 Nov;22(6):511–7

A rapid genotype assay for Pla haplotypes. Pfaffenbach GM, et al. **Thromb Res** 1996 Feb 1;81(3):353–65

Five HLA-B22 group alleles in Japanese. Bannai M, et al. **Tissue Antigens** 1997 Apr;49(4):376–82

A shortcut to interesting human genes: peptide sequence tags, expressed-sequence tags and computers. Mann M. **Trends Biochem Sci** 1996 Dec;21(12):494–5

Our retroviral heritage. Patience C, et al. **Trends Genet** 1997 Mar;13(3):116–20 (62 ref.)

The genetic analysis of multiple sclerosis. Sawcer S, et al. **Trends Genet** 1997 Jun;13(6):234–9 (65 ref.)

Alignment of receptor nomenclature with the human genome: classification of 5-HT1B and 5-HT1D receptor subtypes. Hartig PR, et al. **Trends Pharmacol Sci** 1996 Mar; 17(3):103–5 (22 ref.)

[Mitochondrial cytopathies: identification of responsible nuclear genes] Paquis V. **Arch Pediatr** 1996 Sep;3(9):915–6 (6 ref.) **(Fre)**

[Mapping and human genome sequence program] Weissenbach J. **Pathol Biol (Paris)** 1997 Mar;45(3):205–8 (11 ref.) (Eng. Abstr.) **(Fre)**

[Genome analysis of human chromosome 21: transcript mapping of the Down syndrome region] Ohira M, et al. **Seikagaku** 1997 Apr;69(4):229–43 (84 ref.) **(Jpn)**

[Large-scale sequencing by nested deletions] Hattori M. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2450–7 (4 ref.) **(Jpn)**

[Application of high resolution FISH to genome analysis and cancer genetics] Inazawa J, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2182–90 (21 ref.) **(Jpn)**

[Shotgun sequencing] Kawasaki K, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2458–63 (9 ref.) **(Jpn)**

[Linkage mapping] Miki T, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2407–13 (10 ref.) **(Jpn)**

[Genetic information database] Minoshima S, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2464–77 (9 ref.) **(Jpn)**

[Analysis of DNA replication timing and dynamic changes of genome structure by FISH] Okumura K. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2191–201 (22 ref.) **(Jpn)**

[Prospects of the human chromosome research] Shimizu N. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2510–1 (4 ref.) **(Jpn)**

[Human chromosome research and genetic medicine in the 21st century(discussion)] Takaku F, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2494–509 **(Jpn)**

[Development of analytical technologies for human genomic DNA using capillary electrophoresis and their applications] Baba Y. **Yakugaku Zasshi** 1997 May;117(5):265–81 (42 ref.) (Eng. Abstr.) **(Jpn)**

[Amplification of hypervariable genomic regions for establishment of the type of hematopoiesis in hemoblastosis patients after allogeneic bone marrow transplantation] Demidova IA, et al. **Genetika** 1997 Apr;33(4):546–9 (Eng. Abstr.) **(Rus)**

[A new PCR-primer for specific amplification of human DNA fragments selected on the basis of computer analysis of the nucleotide sequences of MER1 dispersed repeats in man] Iantsen EI, et al. **Genetika** 1997 Feb;33(2):243–8 (Eng. Abstr.) **(Rus)**

[Negative relationship between variation of nuclear and mitochondrial genomes in populations of Arctic Mongoloids of Northeastern Asia] Maliarchuk BA, et al. **Genetika** 1997 Apr;33(4):532–8 (Eng. Abstr.) **(Rus)**

[Analysis of nucleotide combinations in types of the control region of human mitochondrial DNA] Maliarchuk BA, et al. **Genetika** 1997 Mar;33(3):387–92 (Eng. Abstr.) **(Rus)**

[Analysis of polymorphism of two hypervariable regions of

GENOME, HUMAN

the human genome in the Russian population of Moscow using the polymerase chain reaction] Efremov IA, et al. **Mol Biol (Mosk)** 1996 Mar–Apr;30(2):307–18 **(Rus)**

[Approaches to identification of recombination-active DNA sites in human genome] Karpukhin AV, et al. **Mol Biol (Mosk)** 1996 Nov–Dec;30(6):1339–47 **(Rus)**

[Determination of the number of ribosomal genes in individual human genomes. Comparison of the results of molecular and cytogenetic analysis] Veĭko NN, et al. **Mol Biol (Mosk)** 1996 Sep–Oct;30(5):1076–85 **(Rus)**

[Genomic instability after exposure to radiation at low doses (in the 10-kilometer zone of the accident at the Chernobyl Atomic Electric Power Station and under laboratory conditions)] Pelevina II, et al. **Radiats Biol Radioecol** 1996 Jul–Aug;36(4):546–60 (Eng. Abstr.) **(Rus)**

GENOME, PLANT

YAC cloning and identification of rice (Oriza sativa L.) genomic DNA. Wang C, et al. **Chin J Biotechnol** 1996; 12(1):9–16

Centromeric sites and cereal chromosome evolution. Moore G, et al. **Chromosoma** 1997 Apr;105(6):321–3 (15 ref.)

Molecular cytogenetics of Alstroemeria: identification of parental genomes in interspecific hybrids and characterization of repetitive DNA families in constitutive heterochromatin. Kuipers AG, et al. **Chromosome Res** 1997 Feb;5(1):31–9

The highly rearranged chloroplast genome of Trachelium caeruleum (Campanulaceae): multiple inversions, inverted repeat expansion and contraction, transposition, insertions/deletions, and several repeat families. Cosner ME, et al. **Curr Genet** 1997 May;31(5):419–29

Cereal genome analysis using rice as a model. Havukkala IJ. **Curr Opin Genet Dev** 1996 Dec;6(6):711–4 (38 ref.)

Physical mapping of rice chromosomes 8 and 9 with YAC clones. Antonio BA, et al. **DNA Res** 1996 Dec 31; 3(6):393–400

Characterization and genetic mapping of simple sequence repeats in the rice genome. Miyao A, et al. **DNA Res** 1996 Aug 31;3(4):233–8

Assignment of YAC clones spanning rice chromosomes 10 and 12. Shimokawa T, et al. **DNA Res** 1996 Dec 31; 3(6):401–6

The chloroplast genome. Sugiura M. **Essays Biochem** 1995; 30:49–57 (15 ref.)

Dynamics of plant mitochondrial genome: model of a three-level selection process. Albert B, et al. **Genetics** 1996 Sep;144(1):369–82

RFLP mapping in cultivated sugarcane (Saccharum spp.): genome organization in a highly polyploid and aneuploid interspecific hybrid. Grivet L, et al. **Genetics** 1996 Mar; 142(3):987–1000

Isolation and characterization of rice R genes: evidence for distinct evolutionary paths in rice and maize. Hu J, et al. **Genetics** 1996 Mar;142(3):1021–31

Comparative genome mapping in Brassica. Lagercrantz U, et al. **Genetics** 1996 Dec;144(4):1903–10

Structure and evolution of the actin gene family in Arabidopsis thaliana. McDowell JM, et al. **Genetics** 1996 Feb;142(2):587–602

Multiple non-LTR retrotransposons in the genome of Arabidopsis thaliana. Wright DA, et al. **Genetics** 1996 Feb; 142(2):569–78

Detection of cytosine methylation and mapping of a gene influencing cytosine methylation in the genome of Citrus. Cai Q, et al. **Genome** 1996 Apr;39(2):235–42

Chromosomal and genomic organization of Ty1-copia-like retrotransposon sequences in the genus Avena. Katsiotis A, et al. **Genome** 1996 Apr;39(2):410–7

Aneuploid marker assignment in hexaploid oat with the C genome as a reference for determining remnant homoeology. Kianian SF, et al. **Genome** 1997 Jun; 40(3):386–96

Genome and chromosome identification in cultivated barley and related species of the Triticeae (Poaceae) by in situ hybridization with the GAA-satellite sequence. Pedersen C, et al. **Genome** 1996 Feb;39(1):93–104

The Japanese Rice Genome Research Program. Sasaki T, et al. **Genome Res** 1996 Aug;6(8):661–6 (16 ref.)

Isolation and subcloning of chitinase clone from chickpea genomic library. Grover A, et al. **Indian J Exp Biol** 1996 Jun;34(6):594–6

Construction and screening of subgenomic library of chickpea (Cicer arietinum L.) for legumin genes and their analysis. Mandaokar AD, et al. **Indian J Exp Biol** 1996 Jun;34(6):496–501

Antibiotics induce genome-wide hypermethylation in cultured Nicotiana tabacum plants. Schmitt F, et al. **J Biol Chem** 1997 Jan 17;272(3):1534–40

The influence of specific neighboring bases on substitution bias in noncoding regions of the plant chloroplast genome. Morton BR, et al. **J Mol Evol** 1997 Sep;45(3):227–31

Screening of rice genes from the cDNA catalog using the data obtained by protein sequencing. Hirano H. **J Protein Chem** 1997 Jul;16(5):533–6

Correlated rates of synonymous site evolution across plant genomes. Eyre-Walker A, et al. **Mol Biol Evol** 1997 Apr; 14(4):455–60

The physical relationship of barley chromosome 5 (1H) to the linkage groups of rice chromosomes 5 and 10. Korzun L, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):225–31

The modular nodulins Nvf-28/32 of broad bean (Vicia faba L.): alternative exon combinations account for different modular structures. Küster H, et al. **Mol Gen Genet** 1996 Oct 28;252(6):648–57

Partial purification of mitochondrial ribosomes from broad bean and identification of proteins encoded by the mitochondrial genome. Maffey L, et al. **Mol Gen Genet** 1997 Apr 28;254(4):365–71

Development of AFLP markers in barley. Qi X, et al. **Mol Gen Genet** 1997 Apr 16;254(3):330–6

A novel repetitive sequence associated with the centromeric regions of Arabidopsis thaliana chromosomes. Thompson H, et al. **Mol Gen Genet** 1996 Nov 27;253(1-2):247–52

Isolation of genomic DNA from plant tissues. Lee MH, et al. **Nat Biotechnol** 1997 Aug;15(8):805–6

The mitochondrial genome of Arabidopsis thaliana contains 57 genes in 366,924 nucleotides. Unseld M, et al. **Nat Genet** 1997 Jan;15(1):57–61

Planting a sound idea [editorial] **Nature** 1997 Jul 24; 388(6640):309

NSF urged to increase plant genome sequencing effort [news] Macilwain C. **Nature** 1997 Jul 24;388(6640):312

Gene targeting and instability of Agrobacterium T-DNA loci in the plant genome. Risseeuw E, et al. **Plant J** 1997 Apr; 11(4):717–28

Rapid construction of a transcription map for a cosmid contig of Arabidopsis thaliana genome using a novel cDNA selection method. Seki M, et al. **Plant J** 1997 Aug; 12(2):481–7

Public informatics resources for rice and other grasses. Cartinhour SW. **Plant Mol Biol** 1997 Sep;35(1-2):241–51 (71 ref.)

Sequence composition and organization in the Sh2/A1-homologous region of rice [letter] Chen M, et al. **Plant Mol Biol** 1996 Dec;32(6):999–1001

Comparative genetics in the grasses. Devos KM, et al. **Plant Mol Biol** 1997 Sep;35(1-2):3–15 (69 ref.)

Identification of a delta-TIP cDNA clone and determination of related A and D genome subfamilies in Gossypium species. Ferguson DL, et al. **Plant Mol Biol** 1997 May; 34(1):111–8

Retrotransposons of rice: their regulation and use for genome analysis. Hirochika H. **Plant Mol Biol** 1997 Sep; 35(1-2):231–40 (74 ref.)

A chloroplast derived trnH gene is expressed in the mitochondrial genome of gramineous plants. Kanno A, et al. **Plant Mol Biol** 1997 May;34(2):353–6

Towards map-based cloning of the barley stem rust resistance genes Rpg1 and rpg4 using rice as an intergenomic cloning vehicle. Kilian A, et al. **Plant Mol Biol** 1997 Sep; 35(1-2):187–95

Physical mapping of the rice genome with YAC clones. Kurata N, et al. **Plant Mol Biol** 1997 Sep;35(1-2):101–13 (26 ref.)

Rice molecular genetic map using RFLPs and its applications. Nagamura Y, et al. **Plant Mol Biol** 1997 Sep; 35(1-2):79–87 (98 ref.)

Do nonasterid holoparasitic flowering plants have plastid genomes? Nickrent DL, et al. **Plant Mol Biol** 1997 Jul; 34(5):717–29

T-DNA integration into genomic DNA of rice following Agrobacterium inoculation of isolated shoot apices. Park SH, et al. **Plant Mol Biol** 1996 Dec;32(6):1135–48

Physical mapping of the rice genome with BACs. Zhang HB, et al. **Plant Mol Biol** 1997 Sep;35(1-2):115–27 (55 ref.)

Oat-maize chromosome addition lines: a new system for mapping the maize genome. Ananiev EV, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3524–9

The distribution of genes in the genomes of Gramineae. Barakat A, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):6857–61

Microcolinearity in sh2-homologous regions of the maize, rice, and sorghum genomes. Chen M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3431–5

Phylogeny of the genus Pistacia as determined from analysis of the chloroplast genome. Parfitt DE, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7987–92

Complete nucleotide sequence of the chloroplast genome from the green alga Chlorella vulgaris: the existence of genes possibly involved in chloroplast division. Wakasugi T, et al. **Proc Natl Acad Sci U S A** 1997 May 27; 94(11):5967–72

Burial and seed survival in Brassica napus subsp. oleifera and Sinapis arvensis including a comparison of transgenic and non-transgenic lines of the crop. Hails RS, et al. **Proc R Soc Lond B Biol Sci** 1997 Jan 22;264(1378):1–7

Corn genome initiative [letter; comment] Bevan MW. **Science** 1997 Aug 15;277(5328):885–6. Comment on: Science 1997 Jun 27;276(5321):1960–2.

Corn genome pops out of the pack [news] [see comments] Cohen J. **Science** 1997 Jun 27;276(5321):1960–2. Comment in: Science 1997 Aug 15;277(5328):884–5; discussion 886. Comment in: Science 1997 Aug 15;227(5328);885–6.

Nested retrotransposons in the intergenic regions of the maize genome [see comments] SanMiguel P, et al. **Science** 1996 Nov 1;274(5288):765–8. Comment in: Science 1996 Nov 1;274(5288):737–8.

Corn genome initiative [letter; comment] Sorrells ME, et al. **Science** 1997 Aug 15;277(5328):884–5. Comment on: Science 1997 Jun 27;276(5321):1960–2.

Retroelements in genome organization [comment] Voytas DF. **Science** 1996 Nov 1;274(5288):737–8 (5 ref.). Comment on: Science 1996 Nov 1;274(5288):765–8.

The nucleotype, the natural karyotype and the ancestral genome. Bennett MD. **Symp Soc Exp Biol** 1996;50:45–52

Physical and topographical mapping among Triticeae chromosomes. Herrmann RG, et al. **Symp Soc Exp Biol** 1996;50:25–30

Comparative analysis of plant genome architecture. Heslop-Harrison JS. **Symp Soc Exp Biol** 1996;50:17–23

The physical organization of Triticeae chromosomes. Schwarzacher T. **Symp Soc Exp Biol** 1996;50:71–5

The contributions of retroelements to plant genome organization, function and evolution. Bennetzen JL. **Trends Microbiol** 1996 Sep;4(9):347–53 (70 ref.)

["SPELT1"--a new family of tandem repeats in grasses] Salina EA, et al. **Genetika** 1997 Apr;33(4):437–42 (Eng. Abstr.) **(Rus)**

[Structural features of the modified BARE-retroelement in the barley (Hordeum vulgare L.) genome] Shcherban' AB, et al. **Genetika** 1997 Apr;33(4):431–6 (Eng. Abstr.) **(Rus)**

GENOME PROJECT, HUMAN see **HUMAN GENOME PROJECT**

GENOME, PROTOZOAN

Genome downsizing during ciliate development: nuclear division of labor through chromosome restructuring. Coyne RS, et al. **Annu Rev Genet** 1996;30:557–78 (112 ref.)

Organization of Entamoeba histolytica ribosomal and structural genes in PFGE. Báez-Camargo M, et al. **Arch Med Res** 1997;28 Spec No:8–10

Possible role of transcribed intergenic sequences in Entamoeba histolytica. Ortíz-García D, et al. **Arch Med Res** 1997;28 Spec No:30–1

Good things in small packages: the tiny genomes of chlorarachniophyte endosymbionts. Gilson PR, et al. **Bioessays** 1997 Feb;19(2):167–73 (31 ref.)

Mapping the Trypanosoma cruzi genome: analyses of representative cosmid libraries. Hanke J, et al. **Biotechniques** 1996 Oct;21(4):686–8, 690–3

Epigenetic programming of developmental genome rearrangements in ciliates. Meyer E, et al. **Cell** 1996 Oct 4;87(1):9–12 (17 ref.)

Genome research and evolution in trypanosomes. Donelson JE. **Curr Opin Genet Dev** 1996 Dec;6(6):699–703 (39 ref.)

Unravelling the Leishmania genome. Ivens AC, et al. **Curr Opin Genet Dev** 1996 Dec;6(6):704–10 (67 ref.)

Detection of Genomic Polymorphism in Plasmodium falciparum using an arbitrarily primed PCR assay. Rojas MO, et al. **J Eukaryot Microbiol** 1996 Jul-Aug;43(4):323–6

Current status of the Plasmodium falciparum genome project. Dame JB, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):1–12 (74 ref.)

Unusual genome organisation in Entamoeba histolytica leads to two overlapping transcripts. Gangopadhyay SS, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):73–83

A survey of the Trypanosoma brucei rhodesiense genome using shotgun sequencing. el-Sayed NM, et al. **Mol Biochem Parasitol** 1997 Feb;84(2):167–78

The genomic organization of guide RNA genes in kinetoplastid protozoa: several conundrums and their solutions. Simpson L. **Mol Biochem Parasitol** 1997 Jun; 86(2):133–41 (39 ref.)

Malaria genome project gets a funding boost [news] O'Brien C. **Mol Med Today** 1997 Jan;3(1):3

Funding assured for international malaria sequencing project [news] Butler D. **Nature** 1997 Aug 21;388(6644):701

Funding for malaria genome sequencing [letter; comment] Hoffman SL, et al. **Nature** 1997 Jun 12;387(6634):647. Comment on: Nature 1997 Apr 10;386(6625):535–6.

Genomic variation in Trypanosoma cruzi clonal cultures. Alves AM, et al. **Parasitol Res** 1996;82(5):410–5

Parasite genome analysis. Progress in the Leishmania genome project. Blackwell JM. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr;91(2):107–10

Parasite genome analysis. A global map of the Leishmania major genome: prelude to genomic sequencing. Ivens AC, et al. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr; 91(2):111–5 (37 ref.)

Parasite genome analysis. Genome research in Trypanosoma brucei: chromosome size polymorphism and its relevance to genome mapping and analysis. Melville SE. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr;91(2):116–20 (27 ref.)

GENOME, VIRAL

Analysis of the genome of an Epstein-Barr-virus (EBV)-related herpesvirus in a cynomolgus monkey cell line (Si-IIA). Ino H, et al. **Acta Med Okayama** 1997 Aug; 51(4):207–12

Reverse transcription-polymerase chain reaction amplification of respiratory syncytial virus genome from neonatal nasal swab samples. Yoshio H, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):429–33

Poliovirus assembly and encapsidation of genomic RNA. Ansardi DC, et al. **Adv Virus Res** 1996;46:1–68 (232 ref.)

Genome rearrangements of rotaviruses. Desselberger U. **Adv Virus Res** 1996;46:69–95 (69 ref.)

Comparison of the genome ds RNA of human rotavirus strains shed in parts of Ibadan, Nigeria. Ojeh CK, et al. **Afr J Med Med Sci** 1995 Dec;24(4):359–63

HIV-1 genetic diversity. McCutchan FE, et al. **AIDS** 1996 Dec;10 Suppl 3:S13-20

Genomic structure and nucleotide sequence analysis of a new HIV type 1 subtype A strain from Nigeria. Howard TM, et al. **AIDS Res Hum Retroviruses** 1996 Oct 10; 12(15):1413-25

Stability of HIV type 1 proviral genomes that contain two distinct primer-binding sites. Li Y, et al. **AIDS Res Hum Retroviruses** 1997 Feb 10;13(3):253-62

Lentiviral genomes with G-to-A hypermutation may result from Taq polymerase errors during polymerase chain reaction. Overbaugh J, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20;12(17):1605-13

Full-length sequence of an ethiopian human immunodeficiency virus type 1 (HIV-1) isolate of genetic subtype C. Salminen MO, et al. **AIDS Res Hum Retroviruses** 1996 Sep 20;12(14):1329-39

Transfection of HepG2 cells with infectious hepatitis C virus genome. Dash S, et al. **Am J Pathol** 1997 Aug;151(2):363-73

Rio Mamore virus: genetic characterization of a newly recognized hantavirus of the pygmy rice rat, Oligoryzomys microtis, from Bolivia. Bharadwaj M, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):368-74

Complete nucleotide sequence of the genome of Japanese encephalitis virus ling strain: the presence of a 25-nucleotide deletion in the 3'-nontranslated region. Jan LR, et al. **Am J Trop Med Hyg** 1996 Dec;55(6):603-9

Cocirculation of multiple hantaviruses in Texas, with characterization of the small (S) genome of a previously undescribed virus of cotton rats (Sigmodon hispidus). Rawlings JA, et al. **Am J Trop Med Hyg** 1996 Dec; 55(6):672-9

Integration of Epstein-Barr virus in Burkitt's lymphoma cells leads to a region of enhanced chromosome instability. Jox A, et al. **Ann Oncol** 1997;8 Suppl 2:131-5

Genomic classification of fish nodaviruses by molecular phylogenetic analysis of the coat protein gene. Nishizawa T, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1633-6

Five complete genomes of JC virus type 3 from Africans and African Americans. Agostini HT, et al. **Arch Virol** 1997;142(4):637-55

Tobacco veinal necrosis determinants are unlikely to be located within the 5' and 3' terminal sequences of the potato virus Y genome. Chachulska AM, et al. **Arch Virol** 1997; 142(4):765-79

Identification and transcriptional analysis of pseudorabies virus UL6 to UL12 genes. Dijkstra JM, et al. **Arch Virol** 1997;142(1):17-35

Restriction of viral population by intravaginal infection of simian immunodeficiency viruses in macaque monkeys. Enose Y, et al. **Arch Virol** 1997;142(1):37-51

The complete sequence of the genomic RNAs of spinach latent virus. Ge X, et al. **Arch Virol** 1997;142(6):1213-26

Complete nucleotide sequence of the genome of a severe cherry isolate of apple chlorotic leaf spot trichovirus (ACLSV). German-Retana S, et al. **Arch Virol** 1997; 142(4):833-41

A sensitive PCR assay system for the quantitation of viral genome equivalents: hepatitis C virus (HCV). Hämmerle T, et al. **Arch Virol** 1996;141(11):2103-14

A sensitive PCR assay system for the quantitation of viral genome equivalents: human immunodeficiency virus type 1 (HIV-1) and hepatitis B virus (HBV). Hämmerle T, et al. **Arch Virol** 1997;142(7):1297-306

The complete nucleotide sequence and genome organization of barley mild mosaic virus (Na1 strain). Kashiwazaki S. **Arch Virol** 1996;141(11):2077-89

Host range conversion of murine leukemia virus resulting from recombination with endogenous virus. Kawana A, et al. **Arch Virol** 1997;142(1):139-49

Comparison of a 20 kb region of human herpesvirus 6B with other human beta herpesviruses reveals conserved replication genes and adjacent divergent open reading frames. Lindquester GJ, et al. **Arch Virol** 1997; 142(1):193-204

Grapevine virus A: nucleotide sequence, genome organization, and relationship in the Trichovirus genus. Minafra A, et al. **Arch Virol** 1997;142(2):417-23

Molecular characterisation of the 3'-end of the astrovirus genome. Monceyron C, et al. **Arch Virol** 1997; 142(4):699-706

Infectivity and complete nucleotide sequence of the genome of a genetically distinct strain of maize streak virus from Reunion Island. Peterschmitt M, et al. **Arch Virol** 1996; 141(9):1637-50

Genomic sequence of the RA27/3 vaccine strain of rubella virus. Pugachev KV, et al. **Arch Virol** 1997;142(6):1165-80

Molecular cloning and nucleotide sequencing of the partial genomes of Agropyron and Hordeum mosaic viruses, two members of the Rymovirus genus in the taxonomic family Potyviridae. Salm SN, et al. **Arch Virol** 1996; 141(11):2115-27

Sequence analysis of the lymphotropic Aleutian disease parvovirus ADV-SL3. Schuierer S, et al. **Arch Virol** 1997; 142(1):157-66

Human herpesvirus 7 (HHV-7) DNA: analyses of clones spanning the entire genome. Singer O, et al. **Arch Virol** 1997;142(2):287-303

Divergence and conservation of the genomic RNAs of Taiwan and Hawaii strains of papaya ringspot potyvirus. Wang CH, et al. **Arch Virol** 1997;142(2):271-85

Cymbidium mosaic potexvirus RNA: complete nucleotide sequence and phylogenetic analysis. Wong SM, et al. **Arch Virol** 1997;142(2):383-91

The molecular biology of astroviruses. Carter MJ, et al. **Arch Virol Suppl** 1996;12:277-85 (25 ref.)

Bovine viral diarrhea virus genomic organization. Collett MS, et al. **Arch Virol Suppl** 1991;3:19-27

Genome rearrangements of rotaviruses. Desselberger U. **Arch Virol Suppl** 1996;12:37-51 (50 ref.)

African swine fever virus genome content and variability. Dixon LK, et al. **Arch Virol Suppl** 1993;7:185-99 (72 ref.)

Molecular analysis of the human coronavirus (strain 229E) genome. Herold J, et al. **Arch Virol Suppl** 1993;7:63-74 (23 ref.)

Insertion of cellular sequences in the genome of bovine viral diarrhea virus. Meyers G, et al. **Arch Virol Suppl** 1991; 3:133-42 (23 ref.)

Molecular organization and replication of hepatitis E virus (HEV). Reyes GR, et al. **Arch Virol Suppl** 1993;7:15-25 (35 ref.)

Polymerase chain reaction amplification of segments of pestivirus genomes. Roche PM, et al. **Arch Virol Suppl** 1991;3:231-8

Molecular characterization of positive-strand RNA viruses: pestiviruses and the porcine reproductive and respiratory syndrome virus (PRRSV). Thiel HJ, et al. **Arch Virol Suppl** 1993;7:41-52 (33 ref.)

Hepatitis C genotypes in Australian haemophilia patients. Baker RI, et al. **Aust N Z J Med** 1996 Dec;26(6):789-92

The complete coding sequence of hepatitis C virus genotype 5a, the predominant genotype in South Africa. Chamberlain RW, et al. **Biochem Biophys Res Commun** 1997 Jul 9; 236(1):44-9

Conditional requirement for sequences distinct from the replication origin during episomal establishment of the BPV1 genome. Pierrefite V, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):445-8

Sequence of hepatitis G virus genome isolated from a Japanese patient with non-A-E-hepatitis: amplification and cloning by long reverse transcription-PCR. Shao L, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):785-91

HIV-1 genome dimerization: kissing-loop hairpin dictates whether nucleotides downstream of the 5' splice junction contribute to loose and tight dimerization of human immunodeficiency virus RNA. Laughrea M, et al. **Biochemistry** 1997 Aug 5;36(31):9501-8

Herpes simplex virus type 1 replication and recombination. Bataille D, et al. **Biochimie** 1995;77(10):787-95 (110 ref.)

Computational genomic analysis of hemorrhagic fever viruses. Viral selenoproteins as a potential factor in pathogenesis. Ramanathan CS, et al. **Biol Trace Elem Res** 1997 Jan;56(1):93-106 (46 ref.)

Genomic structures of viral agents in relation to the biosynthesis of selenoproteins. Taylor EW, et al. **Biol Trace Elem Res** 1997 Jan;56(1):63-91

Status and transcriptional activity of a bovine-papillomavirus-1-based expression vector in a recombinant production cell line [published erratum appears in Biotechnol Appl Biochem 1996 Apr;23(Pt 2):187] Fibi MR, et al. **Biotechnol Appl Biochem** 1996 Feb; 23 (Pt 1):83-93

Infectious bursal disease virus: a review of molecular basis for variations in antigenicity and virulence. Nagarajan MM, et al. **Can J Vet Res** 1997 Apr;61(2):81-8 (75 ref.)

Hepatitis B virus variants and their significance in pathogenesis, prevention and treatment. Wen Y. **Chin Med J (Engl)** 1996 Jan;109(1):39-41 (11 ref.)

The complexities of viral genome analysis: the primate lentiviruses. McClure MA. **Curr Opin Genet Dev** 1996 Dec; 6(6):749-56 (59 ref.)

High-resolution FISH of the entire integrated Epstein-Barr virus genome on extended human DNA. Lestou VS, et al. **Cytogenet Cell Genet** 1996;74(3):211-7

Genetic variation in hepatitis B virus. Harrison TJ. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):306-11 (48 ref.)

Effect of glucocorticoid hormones on viral gene expression, growth, and dysplastic differentiation in HPV16-immortalized ectocervical cells. Khare S, et al. **Exp Cell Res** 1997 May 1;232(2):353-60

Activation of human immunodeficiency virus long terminal repeat by arachidonic acid. Carini R, et al. **Free Radic Biol Med** 1997;22(1-2):195-9

Genome structure of the Lactobacillus temperate phage phi g1e: the whole genome sequence and the putative promoter/repressor system. Kodaira KI, et al. **Gene** 1997 Mar 10;187(1):45-53

High-fidelity PCR amplification of infectious copies of the complete simian virus 40 genome from plasmids and virus-infected cell lysates. Lednicky JA, et al. **Gene** 1997 Jan 15;184(2):189-95

The early gene region completes the nucleotide sequence of Lactobacillus delbrueckii subsp. lactis phage LL-H. Mikkonen M, et al. **Gene** 1996 Oct 10;175(1-2):49-57

Sequence of the 3' end of the simian hemorrhagic fever virus genome. Smith SL, et al. **Gene** 1997 Jun 3;191(2):205-10

Nucleotide sequence of ovine adenovirus tripartite leader sequence and homologues of the IVa2, DNA polymerase and terminal proteins. Vrati S, et al. **Gene** 1996 Oct 24; 177(1-2):35-41

NAP-I is a functional homologue of TAF-I that is required for replication and transcription of the adenovirus genome in a chromatin-like structure. Kawase H, et al. **Genes Cells** 1996 Dec;1(12):1045-56

Identification of endogenous retroviral sequences based on modular organization: proviral structure at the SSAV1 locus. Blusch JH, et al. **Genomics** 1997 Jul 1;43(1):52-61

Hypervariable region sequence in cryoglobulin-associated hepatitis C virus in sera of patients with chronic hepatitis C: relationship to antibody response against hypervariable region genome. Aiyama T, et al. **Hepatology** 1996 Dec; 24(6):1346-50

Hepatitis C virus genome complexity correlates with response to interferon therapy: a study in French patients with chronic hepatitis C. Le Guen B, et al. **Hepatology** 1997 May;25(5):1250-4

Hepatitis B virus mutations in the pre-S genome before and after liver transplantation. Trautwein C, et al. **Hepatology** 1996 Sep;24(3):482-8

Coxsackievirus B3 genomes detected by polymerase chain reaction: evidence of latent persistency in the myocardium in experimental murine myocarditis. Adachi K, et al. **Histol Histopathol** 1996 Jul;11(3):587-96

Quantitative analysis of the packaging capacity of recombinant adeno-associated virus. Dong JY, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2101-12

Clonal Epstein-Barr virus associated cholangiocarcinoma with lymphoepithelioma-like component. Hsu HC, et al. **Hum Pathol** 1996 Aug;27(8):848-50

The Epstein-Barr virus genome encodes deoxythymidine kinase activity in a nested internal open reading frame. Holton RH, et al. **Intervirology** 1996;39(4):270-4

Molecular characterization of a caprine adenovirus. Williams EL, et al. **Intervirology** 1996;39(4):275-9

HinCyc: a knowledge base of the complete genome and metabolic pathways of H. influenzae. Karp PD, et al. **Ismb** 1996;4:116-24

Human T cell leukemia virus type I (HTLV-I) molecular genotypes and disease outcome. Renjifo B, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S146-53 (46 ref.)

Molecular biology of the human foamy virus. Saïb A, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S254-60 (69 ref.)

Molecular characterization of a genomic region in a Lactococcus bacteriophage that is involved in its sensitivity to the phage defense mechanism AbiA. Dinsmore PK, et al. **J Bacteriol** 1997 May;179(9):2949-57

Transcription-independent DNA translocation of bacteriophage T7 DNA into Escherichia coli. García LR, et al. **J Bacteriol** 1996 Dec;178(23):6921-9

Poliovirus genomic sequences in the central nervous systems of patients with postpolio syndrome [letter; comment] Arya SC. **J Clin Microbiol** 1997 Jan;35(1):334-5. Comment on: J Clin Microbiol 1996 Aug;34(8):2023-6.

Comparative study of three methods for genotyping hepatitis C virus strains in samples from Spanish patients. Forns X, et al. **J Clin Microbiol** 1996 Oct;34(10):2516-21

Isolation from diarrheal and asymptomatic kittens of three rotavirus strains that belong to the AU-1 genogroup of human rotaviruses. Mochizuki M, et al. **J Clin Microbiol** 1997 May;35(5):1272-5

Puumala hantavirus genome in patients with nephropathia epidemica: correlation of PCR positivity with HLA haplotype and link to viral sequences in local rodents. Plyusnin A, et al. **J Clin Microbiol** 1997 May;35(5):1090-6

Second-generation line probe assay for hepatitis C virus genotyping. Stuyver L, et al. **J Clin Microbiol** 1996 Sep; 34(9):2259-66

Long PCR and its application to hepatitis viruses: amplification of hepatitis A, hepatitis B, and hepatitis C virus genomes. Tellier R, et al. **J Clin Microbiol** 1996 Dec; 34(12):3085-91

Discordant results from hepatitis C virus genotyping by procedures based on amplification of different genomic regions. Toniutto P, et al. **J Clin Microbiol** 1996 Oct; 34(10):2382-5

Hepatitis C virus replicative levels and efficiency of genotyping by specific PCR and antibody assay. Yuki N, et al. **J Clin Microbiol** 1997 May;35(5):1184-9

Exposure to a 50 Hz electromagnetic field induces activation of the Epstein-Barr virus genome in latently infected human lymphoid cells. Grimaldi S, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2-3):205-7

Genomic cloning and sequence analysis of Taiwan-3 human polyomavirus JC virus. Ou WC, et al. **J Formos Med Assoc** 1997 Jul;96(7):511-6

Frequency and distribution of chromosomal integration sites of the Epstein-Barr virus genome. Wuu KD, et al. **J Formos Med Assoc** 1996 Dec;95(12):911-6

Analysis of the core region of HCV genome isolated from patients with chronic hepatitis C during intervals of normal ALT concentration. Arataki K, et al. **J Gastroenterol** 1996 Feb;31(1):140-2

Analysis of the sequence diversity of the P1, HC, P3, NIb and CP genomic regions of several yam mosaic potyvirus isolates: implications for the intraspecies molecular diversity of potyviruses. Aleman-Verdaguer ME, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1253-64

3'-Terminal sequences of the RNA genomes of narcissus latent and Maclura mosaic viruses suggest that they represent a new genus of the Potyviridae. Badge J, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):253-7

The genome sequence of the virulent Kabete 'O' strain of rinderpest virus: comparison with the derived vaccine. Baron MD, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3041-6

Murine gammaherpesvirus 68 encodes tRNA-like sequences which are expressed during latency. Bowden RJ, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1675-87

Comprehensive physical map of the Cydia pomonella granulovirus genome and sequence analysis of the granulin gene region. Crook NE, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):965-74

The link between integration and expression of human papillomavirus type 16 genomes and cellular changes in the evolution of cervical intraepithelial neoplastic lesions. Daniel B, et al. **J Gen Virol** 1997 May;78 (Pt 5):1095-101

Classification of hepatitis C virus variants in six major types based on analysis of the envelope 1 and nonstructural 5B genome regions and complete polyprotein sequences. de Lamballerie X, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):45-51

Organization of the M genomic segment of Toscana phlebovirus. Di Bonito P, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):77-81

Similarity in genome organization between Molluscum contagiosum virus (MCV) and vaccinia virus (VV): identification of MCV homologues of the VV genes for protein kinase 2, structural protein VP8, RNA polymerase 35 kDa subunit and 3beta-hydroxysteroid dehydrogenase. Douglass NJ, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3113-20

Detection of silencer activity in the long control regions of human papillomavirus type 6 isolated from both benign and malignant lesions. Farr A, et al. **J Gen Virol** 1995 Apr; 76 (Pt 4):827-35

Influence of the 5' noncoding region of hepatitis A virus strain GBM on its growth in different cell lines. Graff J, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1841-9

Identification and functional analysis of a non-hr origin of DNA replication in the genome of Spodoptera exigua multicapsid nucleopolyhedrovirus. Heldens JG, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1497-506

The complete Mokola virus genome sequence: structure of the RNA-dependent RNA polymerase. Le Mercier P, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1571-6

The sequence and genomic organization of a GB virus A variant isolated from captive tamarins. Leary TP, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2307-13

A physical map of the Mamestra configurata nucleopolyhedrovirus genome and sequence analysis of the polyhedrin gene. Li S, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):265-71

Genome organization and transcription strategy in the complex GNS-L intergenic region of bovine ephemeral fever rhabdovirus. McWilliam SM, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1309-17

Structure and genomic organization of a novel human endogenous retrovirus family: HERV-K (HML-6). Medstrand P, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1731-44

Sequence of porcine circovirus DNA: affinities with plant circoviruses. Meehan BM, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):221-7

Complete DNA sequence of canine adenovirus type 1. Morrison MD, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):873-8

Sequence heterogeneity of heron hepatitis B virus genomes determined by full-length DNA amplification and direct sequencing reveals novel and unique features. Netter HJ, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1707-18

The entire nucleotide sequences of two GB virus C/hepatitis G virus isolates of distinct genotypes from Japan. Okamoto H, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):737-45

Characterization of five conserved genotypes of the mumps virus small hydrophobic (SH) protein gene. Orvell C, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):91-5

Hantaviruses: genome structure, expression and evolution. Plyusnin A, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2677-87 (106 ref.)

Molecular analysis of the pothos latent virus genome. Rubino L, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1219-26

The nucleotide sequence and genomic organization of grapevine virus B. Saldarelli P, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2645-52

The complete nucleotide sequence and genome organization of the M RNA segment of peanut bud necrosis tospovirus and comparison with other tospoviruses. Satyanarayana T, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2347-52

The origin of hepatitis C virus genotypes. Smith DB, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):321-8

Genetic analysis of the hepatitis C virus (HCV) genome from HCV-infected human T cells. Sugiyama K, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):329-36

Rice ragged stunt Oryzavirus genome segment 9 encodes a 38 600 Mr structural protein. Uyeda I, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):975-8

Chimeric coxsackie B3 virus genomes that express hybrid coxsackievirus-poliovirus 2B proteins: functional dissection of structural domains involved in RNA replication. van Kuppeveld FJ, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1833-40

Completion of the impatiens necrotic spot virus genome sequence and genetic comparison of the L proteins within the family Bunyaviridae. van Poelwijk F, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):543-6

Sequence and transcriptional analysis of the ubiquitin gene cluster in the genome of Spodoptera exigua nucleopolyhedrovirus. van Strien EA, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2311-9

Sequential changes in full-length genomes of hepatitis B virus accompanying acute exacerbation of chronic hepatitis B. Asahina Y, et al. **J Hepatol** 1996 Dec;25(6):787-94

Hepatitis C virus genotypes and subtypes in patients with hepatitis C, with and without cryoglobulinemia. Frangeul L, et al. **J Hepatol** 1996 Oct;25(4):427-32

Sequence heterogeneity within the 5'-terminal region of the hepatitis GB virus C genome and evidence for genotypes. Muerhoff AS, et al. **J Hepatol** 1996 Sep;25(3):379-84

Sensitive chemiluminescence in situ hybridization for the detection of human papillomavirus genomes in biopsy specimens. Musiani M, et al. **J Histochem Cytochem** 1997 May;45(5):729-35

Amplification of GB virus-C/hepatitis G virus RNA with primers from different regions of the viral genome. Kao JH, et al. **J Med Virol** 1997 Apr;51(4):284-9

Detection of mumps virus genome directly from clinical samples and a simple method for genetic differentiation of the Hoshino vaccine strain from wild strains of mumps virus. Kashiwagi Y, et al. **J Med Virol** 1997 Jun;52(2):195-9

Sequence and genomic organization of GBV-C: a novel member of the flaviviridae associated with human non-A-E hepatitis. Leary TP, et al. **J Med Virol** 1996 Jan; 48(1):60-7

Genomic regions of coxsackievirus B3 associated with cardiovirulence. Lee C, et al. **J Med Virol** 1997 Jul; 52(3):341-7

Molecular epidemiology of adenovirus types 3 and 7 isolated from children with pneumonia in Beijing. Li QG, et al. **J Med Virol** 1996 Jul;49(3):170-7

DNA curvature controls termination of plus strand DNA synthesis at the centre of HIV-1 genome. Lavigne M, et al. **J Mol Biol** 1997 Feb 28;266(3):507-24

The genome of the pseudo T-even bacteriophages, a diverse group that resembles T4. Monod C, et al. **J Mol Biol** 1997 Mar 28;267(2):237-49

Site-specific in situ amplification of the integrated polyomavirus genome: a case for a context-specific over-replication model of gene amplification. Syu LJ, et al. **J Mol Biol** 1997 Aug 8;271(1):76-99

Characteristics of nucleotide substitution in the hepatitis C virus genome: constraints on sequence change in coding regions at both ends of the genome. Smith DB, et al. **J Mol Evol** 1997 Sep;45(3):238-46

Genomic variation of human papillomavirus type 16 and risk for high grade cervical intraepithelial neoplasia [see comments] Xi LF, et al. **J Natl Cancer Inst** 1997 Jun 4; 89(11):796-802. Comment in: J Natl Cancer Inst 1997 Jun 4;89(11):752-3.

Deletion of the S component inverted repeat sequence c' and the nonessential genes U(S)1 through U(S)5 from the herpes simplex virus type 1 genome substantially impairs productive viral infection in cell culture and pathogenesis in the rat central nervous system. Rasty S, et al. **J Neurovirol** 1997 Aug;3(4):247-64

Cloning and sequencing of the genome of chicken anaemia virus (CAV) TK-5803 strain and comparison with other CAV strains. Farkas T, et al. **J Vet Med Sci** 1996 Jul; 58(7):681-4

Whole genome analysis of hepatitis B virus from four cases of fulminant hepatitis: genetic variability and its potential role in disease pathogenicity. Alexopoulou A, et al. **J Viral Hepat** 1996 Jul;3(4):173-81

Episodic evolution mediates interspecies transfer of a murine coronavirus. Baric RS, et al. **J Virol** 1997 Mar; 71(3):1946-55

Rescue of rinderpest virus from cloned cDNA. Baron MD, et al. **J Virol** 1997 Feb;71(2):1265-71

Role of the DIS hairpin in replication of human immunodeficiency virus type 1. Berkhout B, et al. **J Virol** 1996 Oct;70(10):6723-32

Secondary structure determination of the conserved 98-base sequence at the 3' terminus of hepatitis C virus genome RNA. Blight KJ, et al. **J Virol** 1997 Oct;71(10):7345-52

In vivo study of genetically simplified bovine leukemia virus derivatives that lack tax and rex. Boris-Lawrie K, et al. **J Virol** 1997 Feb;71(2):1514-20

The Sendai paramyxovirus accessory C proteins inhibit viral genome amplification in a promoter-specific fashion. Cadd T, et al. **J Virol** 1996 Aug;70(8):5067-74

Kaposi's sarcoma-associated herpesvirus contains G protein-coupled receptor and cyclin D homologs which are expressed in Kaposi's sarcoma and malignant lymphoma. Cesarman E, et al. **J Virol** 1996 Nov; 70(11):8218-23

Genomic diversity and evolution of papillomaviruses in rhesus monkeys. Chan SY, et al. **J Virol** 1997 Jul; 71(7):4938-43

Tissue distribution of Epstein-Barr virus genotypes. Chen HL, et al. **J Virol** 1996 Oct;70(10):7301-5

Mutant human immunodeficiency virus type 1 genomes with defects in RNA dimerization or encapsidation. Clever JL, et al. **J Virol** 1997 May;71(5):3407-14

Identification and characterization of pseudorabies virus glycoprotein gM as a nonessential virion component. Dijkstra JM, et al. **J Virol** 1996 Aug;70(8):5684-8

Multiple widely spaced elements determine the efficiency with which a distal cistron is expressed from the polycistronic pregenomic RNA of figwort mosaic caulimovirus. Edskes HK, et al. **J Virol** 1997 Feb; 71(2):1567-75

Primary structure of the alcelaphine herpesvirus 1 genome. Ensser A, et al. **J Virol** 1997 Sep;71(9):6517-25

Genetic exchange by recombination or reassortment is infrequent in natural populations of a tripartite RNA plant virus. Fraile A, et al. **J Virol** 1997 Feb;71(2):934-40

Induction of human papillomavirus type 18 late gene expression and genomic amplification in organotypic cultures from transfected DNA templates. Frattini MG, et al. **J Virol** 1997 Sep;71(9):7068-72

Construction of a genome-length cDNA clone for human astrovirus serotype 1 and synthesis of infectious RNA transcripts. Geigenmüller U, et al. **J Virol** 1997 Feb; 71(2):1713-7

Homologous and nonhomologous retroviral recombinations are both involved in the transfer by infectious particles of defective avian leukosis virus-derived transcomplementing genomes. Girod A, et al. **J Virol** 1996 Aug;70(8):5651-7

Nonhomologous RNA-RNA recombination events at the 3' nontranslated region of the Sindbis virus genome: hot spots and utilization of nonviral sequences. Hajjou M, et al. **J Virol** 1996 Aug;70(8):5153-64

cis-Acting sequences in addition to donor and acceptor sites are required for template switching during synthesis of plus-strand DNA for duck hepatitis B virus. Havert MB, et al. **J Virol** 1997 Jul;71(7):5336-44

A bulged stem-loop structure in the 3' untranslated region of the genome of the coronavirus mouse hepatitis virus is essential for replication. Hsue B, et al. **J Virol** 1997 Oct; 71(10):7567-78

In vitro model for the nuclear transport of the hepadnavirus genome. Kann M, et al. **J Virol** 1997 Feb;71(2):1310-6

Transcriptional strategy of closteroviruses: mapping the 5' termini of the citrus tristeza virus subgenomic RNAs. Karasev AV, et al. **J Virol** 1997 Aug;71(8):6233-6

Subgenomic replicons of the flavivirus Kunjin: construction and applications. Khromykh AA, et al. **J Virol** 1997 Feb; 71(2):1497-505

The 5' nontranslated region of potato virus X RNA affects both genomic and subgenomic RNA synthesis. Kim KH, et al. **J Virol** 1996 Aug;70(8):5533-40

Effects of mutations in the gene-start and gene-end sequence motifs on transcription of monocistronic and dicistronic minigenomes of respiratory syncytial virus. Kuo L, et al. **J Virol** 1996 Oct;70(10):6892-901

A novel type of defective viral genome suggests a unique strategy to establish and maintain persistent lymphocytic choriomeningitis virus infections. Meyer BJ, et al. **J Virol** 1997 Sep;71(9):6757-64

Genomic characterization of the virus causing infectious salmon anemia in Atlantic salmon (Salmo salar L.): an orthomyxo-like virus in a teleost. Mjaaland S, et al. **J Virol** 1997 Oct;71(10):7681-6

Recombinant human immunodeficiency virus type 1 genomes with tat unconstrained by overlapping reading frames reveal residues in Tat important for replication in tissue culture. Neuveut C, et al. **J Virol** 1996 Aug;70(8):5572-81

Nonrandom segregation of parental alleles in reovirus reassortants. Nibert ML, et al. **J Virol** 1996 Oct; 70(10):7295-300

A single 13-kilobase divergent locus in the Kaposi sarcoma-associated herpesvirus (human herpesvirus 8) genome contains nine open reading frames that are homologous to or related to cellular proteins. Nicholas J, et al. **J Virol** 1997 Mar;71(3):1963-74

A single gene encoding the fiber is responsible for variations in virulence in the fowl adenoviruses. Pallister J, et al. **J Virol** 1996 Aug;70(8):5115-22

Analysis of the complete DNA sequence of murine cytomegalovirus. Rawlinson WD, et al. **J Virol** 1996 Dec; 70(12):8833-49

RNA replication by a respiratory syncytial virus RNA analog does not obey the rule of six and retains a nonviral trinucleotide extension at the leader end. Samal SK, et al. **J Virol** 1996 Aug;70(8):5075-82

Accumulation of defective viral genomes in peripheral blood mononuclear cells of human immunodeficiency virus type 1-infected individuals. Sanchez G, et al. **J Virol** 1997 Mar; 71(3):2233-40

Analysis of the VPg-proteinase (NIa) encoded by tobacco etch potyvirus: effects of mutations on subcellular transport, proteolytic processing, and genome amplification. Schaad MC, et al. **J Virol** 1996 Oct; 70(10):7039-48

Coronavirus genomic and subgenomic minus-strand RNAs copartition in membrane-protected replication complexes. Sethna PB, et al. **J Virol** 1997 Oct;71(10):7744-9

Evolution of a persistent aphthovirus in cytolytic infections: partial reversion of phenotypic traits accompanied by genetic diversification. Sevilla N, et al. **J Virol** 1996 Oct; 70(10):6617-24

Sequence analysis of the hepatitis C virus genome recovered from serum, liver, and peripheral blood mononuclear cells of infected chimpanzees. Shimizu YK, et al. **J Virol** 1997 Aug;71(8):5769-73

Complete nucleotide sequence of simian endogenous type D retrovirus with intact genome organization: evidence for ancestry to simian retrovirus and baboon endogenous virus. van der Kuyl AC, et al. **J Virol** 1997 May; 71(5):3666-76

Structure of the rat cytomegalovirus genome termini. Vink C, et al. **J Virol** 1996 Aug;70(8):5221-9

Complete sequence and genomic analysis of murine gammaherpesvirus 68. Virgin HW 4th, et al. **J Virol** 1997

Aug;71(8):5894–904
A novel terminal resolution–like site in the adeno–associated virus type 2 genome. Wang XS, et al. **J Virol** 1997 Feb; 71(2):1140–6
Characterization of the genome of feline foamy virus and its proteins shows distinct features different from those of primate spumaviruses. Winkler I, et al. **J Virol** 1997 Sep; 71(9):6727–41
Oncogenesis of mammary glands, skin, and bones by polyomavirus correlates with viral persistence and prolonged genome replication potential. Wirth JJ, et al. **J Virol** 1997 Feb;71(2):1072–8
A novel 165–base–pair terminal repeat sequence is the sole cis requirement for the adeno–associated virus life cycle. Xiao X, et al. **J Virol** 1997 Feb;71(2):941–8
Strain variability among Kaposi sarcoma–associated herpesvirus (human herpesvirus 8) genomes: evidence that a large cohort of United States AIDS patients may have been infected by a single common isolate. Zong JC, et al. **J Virol** 1997 Mar;71(3):2505–11
Evaluation of four PCR systems amplifying different genomic regions for molecular diagnosis of GB virus C infections. Cantaloube JF, et al. **J Virol Methods** 1997 Mar;64(2):131–5
Synthesis of full–length potyvirus cDNA copies suitable for the analysis of genome polymorphism. Chachulska AM, et al. **J Virol Methods** 1997 Sep;67(2):189–97
A primer pair for amplifying part of the genome of all potyvirids by RT–PCR [published erratum appears in J Virol Methods 1997 May;65(2):317] Gibbs A, et al. **J Virol Methods** 1997 Jan;63(1–2):9–16
Amplification and cloning of complete enterovirus genomes by long distance PCR. Lindberg AM, et al. **J Virol Methods** 1997 May;65(2):191–9
Amplification and cloning of a long RNA virus genome using immunocapture–long RT–PCR. Romero A, et al. **J Virol Methods** 1997 Jun;66(1):159–63
A double–strand break in a herpesvirus genome stimulates targeted homologous recombination with exogenous, cloned viral sequences. Ryan P, et al. **J Virol Methods** 1996 Mar;57(1):95–107
Demonstration of human papillomavirus (HPV) genomic amplification and viral–like particles from CaSki cell line in SCID mice. Wu TC, et al. **J Virol Methods** 1997 May; 65(2):287–98
Detection of viral genome in non–neural tissues of cattle experimentally infected with bovine herpesvirus 1. Mweene AS, et al. **Jpn J Vet Res** 1996 Dec;44(3):165–74
Mutational analysis of the 5' noncoding region of human immunodeficiency virus type 1 genome. Hirota M, et al. **Leukemia** 1997 Apr;11 Suppl 3:102–5
Manipulation of the Semliki Forest virus genome and its potential for vaccine construction. Atkins GJ, et al. **Mol Biotechnol** 1996 Feb;5(1):33–8 (29 ref.)
The coat protein is required for the elicitation of the Capsicum L2 gene–mediated resistance against the tobamoviruses. de la Cruz A, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):107–13
HIV sequence analysis used in court case [news] **Nat Biotechnol** 1997 May;15(5):397
Hepatitis C virus genotype in anti–HCV–positive hemodialysed patients. Colleoni N, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2258–64
Structure, genomic organization, replication and variability of hepatitis C virus. Pozzetto B, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:2–5 (11 ref.)
Epstein–Barr virus encephalomyelitis diagnosed by polymerase chain reaction: detection of the genome in the CSF. Tselis A, et al. **Neurology** 1997 May;48(5):1351–5
A revised secondary structure model for the 3'–end of hepatitis B virus pregenomic RNA. Kidd AH, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3295–301
Genetic instability and fragmentation of a stealth viral genome. Martin WJ. **Pathobiology** 1996;64(1):9–17
Analysis of the Epstein–Barr viral genome in so–called malignant histiocytosis syndrome. Kobari S, et al. **Pathol Int** 1996 May;46(5):355–63
Recombinational construction in Escherichia coli of infectious adenoviral genomes. Crouzet J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1414–9
In vitro evolution of terminal protein–containing genomes. Esteban JA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2921–6
Stoichiometric packaging of the three genomic segments of double–stranded RNA bacteriophage phi6. Qiao X, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4074–9
The product of ORF O located within the domain of herpes simplex virus 1 genome transcribed during latent infection binds to and inhibits in vitro binding of infected cell protein 4 to its cognate DNA site. Randall G, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10379–84
Construction and characterization of a reovirus double temperature–sensitive mutant. Roner MR, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6826–30
Nucleotide sequence of the Kaposi sarcoma–associated herpesvirus (HHV8). Russo JJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14862–7
Immunopathogenesis and physical maps of fowl adenovirus serotype 9. Erny KM, et al. **Res Vet Sci** 1996 Sep; 61(2):174–5
Clonal analysis suggests provirus expression in a subpopulation of human malignant trophoblast cells harbouring the human T cell lymphotropic virus type–I genome. Liu X, et al. **Res Virol** 1996 Jan–Feb;147(1):45–51
Paramyxovirus RNA editing and the requirement for hexamer genome length. Hausmann S, et al. **RNA** 1996 Oct;2(10):1033–45
Secondary structure of the 3'–noncoding region of flavivirus genomes: comparative analysis of base pairing probabilities. Rauscher S, et al. **RNA** 1997 Jul;3(7):779–91
Primary sequence of the envelope glycoprotein of a dengue type 2 virus isolated from patient with dengue hemorrhagic fever and encephalopathy. Sistayanarain A, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):221–7
Improved amplification system for detection of hepatitis C virus genome that simultaneously differentiates viral genotypes. Songsivilai S, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):237–43
Genome differences among varicella–zoster viruses isolated in Thailand. Thawarananthta D, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):677–83
Rapid detection and identification of dengue viruses by polymerase chain reaction (PCR). Yenchitsomanus PT, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):228–36
Identification of mutations contributing to the reduced virulence of a modified strain of respiratory syncytial virus. Tolley KP, et al. **Vaccine** 1996 Dec;14(17–18):1637–46
Detection of pseudorabies virus genomic sequences in apparently uninfected 'single reactor' pigs. Bascuñana CR, et al. **Vet Microbiol** 1997 Apr;55(1–4):37–47
Bovine herpesvirus 4: genomic organization and relationship with two other gammaherpesviruses, Epstein–Barr virus and herpesvirus saimiri. Lomonte P, et al. **Vet Microbiol** 1996 Nov;53(1–2):79–89 (43 ref.)
Molecular characterization of Lelystad virus. Meulenberg JJ, et al. **Vet Microbiol** 1997 Apr;55(1–4):197–202 (20 ref.)
Rapid and high sensitivity test for direct detection of bovine herpesvirus–1 genome in clinical samples. Santurde G, et al. **Vet Microbiol** 1996 Mar;49(1–2):81–92
Gene contents in a 31–kb segment at the left genome end of bovine herpesvirus–1. Schwyzer M, et al. **Vet Microbiol** 1996 Nov;53(1–2):67–77 (30 ref.)
Molecular virology of ruminant herpesviruses. Schwyzer M, et al. **Vet Microbiol** 1996 Nov;53(1–2):17–29 (83 ref.)
The sequence of the Orgyia pseudotsugata multinucleocapsid nuclear polyhedrosis virus genome. Ahrens CH, et al. **Virology** 1997 Mar 17;229(2):381–99
Proviral organization and sequence analysis of feline immunodeficiency virus isolated from a Pallas' cat. Barr MC, et al. **Virology** 1997 Feb 3;228(1):84–91
Sequence analysis of the bicistronic Drosophila X virus genome segment A and its encoded polypeptides. Chung HK, et al. **Virology** 1996 Nov 15;225(2):359–68
Minimum protein requirements for transcription and RNA replication of a minigenome of human parainfluenza virus type 3 and evaluation of the rule of six. Durbin AP, et al. **Virology** 1997 Jul 21;234(1):74–83
Oat blue dwarf marafivirus resembles the tymoviruses in sequence, genome organization, and expression strategy. Edwards MC, et al. **Virology** 1997 May 26;232(1):217–29
Type 1 HERV–K genome is spliced into subgenomic transcripts in the human breast tumor cell line T47D. Etkind PR, et al. **Virology** 1997 Aug 4;234(2):304–8
Genetic diversity in tobacco mild green mosaic tobamovirus infecting the wild plant Nicotiana glauca. Fraile A, et al. **Virology** 1996 Sep 1;223(1):148–55
The genome organization and affinities of an Australian isolate of carrot mottle umbravirus. Gibbs MJ, et al. **Virology** 1996 Oct 1;224(1):310–3
Characterization of chimeric turnip yellow mosaic virus genomes that are infectious in the absence of aminoacylation. Goodwin JB, et al. **Virology** 1997 Mar 31; 230(1):113–24
Naturally occurring hepatitis B virus genomes bearing the hallmarks of retroviral G-->A hypermutation. Günther S, et al. **Virology** 1997 Aug 18;235(1):104–8
Mapping and expression of southern bean mosaic virus genomic and subgenomic RNAs. Hacker DL, et al. **Virology** 1997 Aug 4;234(2):317–27
Persistence and evolution of feline coronavirus in a closed cat–breeding colony. Herrewegh AA, et al. **Virology** 1997 Aug 4;234(2):349–63
A tobamovirus genome that contains an internal ribosome entry site functional in vitro. Ivanov PA, et al. **Virology** 1997 May 26;232(1):32–43
Human endogenous retrovirus HC2 is a new member of the S71 retroviral subgroup with a full–length pol gene. Kabát P, et al. **Virology** 1996 Dec 1;226(1):83–94
Analysis of six DNA components of the faba bean necrotic yellows virus genome and their structural affinity to related plant virus genomes. Katul L, et al. **Virology** 1997 Jul 7; 233(2):247–59
Mutations that alter a conserved element upstream of the potato virus X triple block and coat protein genes affect subgenomic RNA accumulation. Kim KH, et al. **Virology** 1997 May 26;232(1):187–97
The structure and coding organization of the genomic termini of Kaposi's sarcoma–associated herpesvirus. Lagunoff M, et al. **Virology** 1997 Sep 15;236(1):147–54
Hepatitis C virus genomic variability in untreated and immunosuppressed patients. Lawal Z, et al. **Virology** 1997 Feb 3;228(1):107–11
Nucleotide sequence of the Barmah Forest virus genome. Lee E, et al. **Virology** 1997 Jan 20;227(2):509–14
Replication signals in the genome of vesicular stomatitis virus and its defective interfering particles: identification of a sequence element that enhances DI RNA replication. Li T, et al. **Virology** 1997 Jun 9;232(2):248–59
Mutation rate of GB virus C/hepatitis G virus over the entire genome and in subgenomic regions. Nakao H, et al. **Virology** 1997 Jun 23;233(1):43–50
Petunia vein–clearing virus: a plant pararetrovirus with the core sequences for an integrase function. Richert–Pöggeler KR, et al. **Virology** 1997 Sep 15;236(1):137–46
Disruption of the varicella–zoster virus dUTPase and the adjacent ORF9A gene results in impaired growth and reduced syncytia formation in vitro. Ross J, et al. **Virology** 1997 Aug 4;234(2):186–95
Biologic properties of hepatitis B viral genomes with mutations in the precore promoter and precore open reading frame. Scaglioni PP, et al. **Virology** 1997 Jul 7; 233(2):374–81
The genome of molluscum contagiosum virus: analysis and comparison with other poxviruses. Senkevich TG, et al. **Virology** 1997 Jun 23;233(1):19–42
Concatemeric intermediates of equine herpesvirus type 1 DNA replication contain frequent inversions of adjacent long segments of the viral genome. Slobedman B, et al. **Virology** 1997 Mar 17;229(2):415–20
Genomic organization and sequence conservation in type I Trichomonas vaginalis viruses. Su HM, et al. **Virology** 1996 Aug 15;222(2):470–3
The complete DNA sequence of lymphocystis disease virus. Tidona CA, et al. **Virology** 1997 Apr 14;230(2):207–16
The genome–linked protein of potato leafroll virus is located downstream of the putative protease domain of the ORF1 product. van der Wilk F, et al. **Virology** 1997 Aug 4; 234(2):300–3
Genetic variation in yellow fever virus: duplication in the 3' noncoding region of strains from Africa. Wang E, et al. **Virology** 1996 Nov 15;225(2):274–81
Analysis of the two subgenomic RNA promoters for turnip crinkle virus in vivo and in vitro. Wang J, et al. **Virology** 1997 May 26;232(1):174–86
Genetic organization and diversity of the 3' noncoding region of the hepatitis C virus genome. Yamada N, et al. **Virology** 1996 Sep 1;223(1):255–61
Completion of the Norwalk virus genome sequence. Hardy ME, et al. **Virus Genes** 1996;12(3):287–90
Complete sequence and transposon mutagenesis of the BamHI J fragment of Cydia pomonella granulosis virus. Kang W, et al. **Virus Genes** 1997;14(2):131–6
Bovine herpesvirus 1 isolates contain variable copy numbers of GC–rich tandem repeats in the gI non–coding regions of their genomes. Nadin–Davis SA, et al. **Virus Genes** 1996; 13(3):263–8
Rice tungro spherical virus: nucleotide sequence of the 3' genomic half and studies on the two small 3' open reading frames. Thole V, et al. **Virus Genes** 1996;13(3):239–46
A genomic map of infectious laryngotracheitis virus and the sequence and organization of genes present in the unique short and flanking regions. Wild MA, et al. **Virus Genes** 1996;12(2):107–16
Molecular cloning and sequence determination of the complete genome of the virulent echovirus 9 strain barty. Zimmermann H, et al. **Virus Genes** 1996;12(2):149–54
Coding sequences of both genome segments of a European 'very virulent' infectious bursal disease virus. Brown MD, et al. **Virus Res** 1996 Jan;40(1):1–15
A contribution to the systematization of bovine herpesvirus 1 based on genomic mapping by restriction fragment pattern analysis. Christensen LS, et al. **Virus Res** 1996 Dec; 46(1–2):177–82
Structural and functional heterogeneity of integrated recombinant AAV genomes. Duan D, et al. **Virus Res** 1997 Apr;48(1):41–56
The complete nucleotide sequence of rabbit haemorrhagic disease virus (Czech strain V351): use of the polymerase chain reaction to detect replication in Australian vertebrates and analysis of viral population sequence variation. Gould AR, et al. **Virus Res** 1997 Jan;47(1):7–17
Identification and sequence analysis of the integration site of transposon TCp3.2 in the genome of Cydia pomonella granulovirus. Jehle JA, et al. **Virus Res** 1997 Aug; 50(2):151–7
Comparison of the complete genomic sequence of the border disease virus, BD31, to other pestiviruses. Ridpath JF, et al. **Virus Res** 1997 Aug;50(2):237–43
Genetic characterization of ruminant pestiviruses: sequence analysis of viral genotypes isolated from sheep. Sullivan DG, et al. **Virus Res** 1997 Jan;47(1):19–29
Detection and genomic analysis of canine parvovirus by the polymerase chain reaction. Hirasawa T, et al. **Zentralbl Veterinarmed** [B] 1996 Nov;43(9):545–54
[Detection of herpes viral genome in corneal buttons of quiescet herpes simplex keratitis with polymerase chain reaction] Liu Z, et al. **Yen Ko Hsueh Pao** 1995 Dec; 11(4):183–5 (Eng. Abstr.) **(Chi)**
[Cytomegalovirus infections in the course of liver transplantation. Demonstration of viral genome (CMV) using in situ hybridization] Sin AI, et al. **Rom J Morphol Embryol** 1996 Jul–Dec;42(3–4):193–201 **(Fre)**

GENOME, VIRAL

[Detection of Epstein-Barr virus genomes in nasopharyngeal carcinoma] Furukawa M, et al. **Nippon Rinsho** 1997 Feb; 55(2):346–9 (Eng. Abstr.) **(Jpn)**

[Comparison between HGV genome and HGBV-C genome] Shimoda A, et al. **Nippon Rinsho** 1997 Mar;55(3):597–603 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Detection of HGBV-C genome in patients with fulminant hepatitis in Japan--using stored serum of 44 cases for last 25 years] Tameda Y, et al. **Nippon Rinsho** 1997 Mar; 55(3):569–76 **(Jpn)**

[Genetic organization of GBV-C] Yamaguchi K, et al. **Nippon Rinsho** 1997 Mar;55(3):535–9 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Nuclear targeting of viral genome] Nakanishi A, et al. **Tanpakushitsu Kakusan Koso** 1997 Jan;42(1):12–21 (81 ref.) **(Jpn)**

[Flavivirus RNA replication and involvement of host factors] Takegami T. **Uirusu** 1996 Dec;46(2):91–7 (35 ref.) **(Jpn)**

[Organization and structure of genomes in Papilloma viruses] Dziabaszewska E. **Postepy Biochem** 1997;43(1):18–24 (56 ref.) **(Pol)**

[Genes of a circle of hosts for the cowpox virus] Safronov PF, et al. **Dokl Akad Nauk** 1996 Aug;349(6):829–33 **(Rus)**

[Defective phages of bacilli: cell parasites or chromosomal components] Prozorov AA. **Genetika** 1996 Apr; 32(4):469–81 (67 ref.) (Eng. Abstr.) **(Rus)**

[Study of transcript translation of a DNA-copy of the translated region of the foot-and-mouth disease A22 virus genome] Aminev AG, et al. **Mol Biol (Mosk)** 1997 May-Jun;31(3):398–402 **(Rus)**

[Sequences of human chromosome 19 with partial homology to the human immunodeficiency virus type 1 genome] Khaidarova NV, et al. **Mol Biol (Mosk)** 1997 Jan-Feb; 31(1):38–44 **(Rus)**

[Construction of recombinant variants or orthopoxviruses by inserting foreign genes into intragenic region of viral genome] Serpinskii OI, et al. **Mol Biol (Mosk)** 1996 Sep-Oct;30(5):1055–65 **(Rus)**

[Expression of the ribozyme gene in the recombinant defective adenovirus genome] Zakharchuk AN, et al. **Mol Biol (Mosk)** 1997 Jan-Feb;31(1):81–5 **(Rus)**

[Use of DNA sequence hybridization with specific oligonucleotide probes to identify hepatitis C virus genotypes] Domingo MJ, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):433–5 (Eng. Abstr.) **(Spa)**

[Antigenic and genomic characterization of Herpes simplex virus isolated from double genital infections] Martínez MJ, et al. **Rev Med Chil** 1996 Feb;124(2):153–9 (Eng. Abstr.) **(Spa)**

GENOMIC HYBRIDIZATION see **NUCLEIC ACID HYBRIDIZATION**

GENOMIC IMPRINTING

Asynchronous replication patterns of imprinted genes in triploid cells. Argyriou-Tirita A, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):207–12

Molecular analysis of an extra inv dup(15)(q13) chromosome in two patients with Angelman syndrome. Buchholz T, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):217–20

Uniparental disomy and genome imprinting: an overview. Engel E. **Acta Genet Med Gemellol (Roma)** 1996; 45(1-2):19–39 (91 ref.)

Are ABL and BCR imprinted? Fink M, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):233–7 (24 ref.)

Is genomic imprinting involved in the pathogenesis of hyperdiploid and haploid acute lymphoblastic leukemia of childhood? Haas OA. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):239–42 (18 ref.)

Is genomic imprinting involved in the pathogenesis of pseudotriploid neuroblastoma? Haas OA. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):173–7 (20 ref.)

An introduction to genomic imprinting and parent of origin effects. Hall JG, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):59–61 (3 ref.)

Wiedman-Beckwith syndrome, tumorigenesis and imprinting. Junien C. **Acta Genet Med Gemellol (Roma)** 1996; 45(1-2):77–82 (23 ref.)

A new case of Beckwith-Wiedemann syndrome with an 11p15 duplication of paternal origin [46,XY,-21,+der(21), t(11;21)(p15.2;q22.3)pat] Krajewska-Walasek M, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):245–50

Parental source effect on inherited mutations in the dystrophin gene of mice and humans. Kress W, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):251–3

Multiple imprinted genes associated with Prader-Willi syndrome and location of an imprinting control element. Nicholls RD, et al. **Acta Genet Med Gemellol (Roma)** 1996; 45(1-2):87–9 (10 ref.)

Imprinting and transgenerational modulation of gene expression; human growth as a model. Pembrey M. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):111–25 (26 ref.)

A case of Angelman syndrome arising as a result of a de novo Robertsonian translocation. Ramsden S, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):255–61

Uniparental disomy and genomic imprinting in humans. Schinzel A. **Acta Genet Med Gemellol (Roma)** 1996; 45(1-2):145–52 (35 ref.)

No evidence for genomic imprinting in liver-born Down syndrome patients. Stoll C, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):265–71

Absence of genomic imprinting at the DiGeorge locus. Theophile D, et al. **Acta Genet Med Gemellol (Roma)** 1996; 45(1-2):277–80

The IPW gene is imprinted and is not expressed in the Prader-Willi syndrome. Wevrick R, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):191–7

The mouse Xist gene: a model for studying the gametic imprinting phenomenon. Zuccotti M, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):199–204 (23 ref.)

Clinical features and molecular genetic analysis of a boy with Prader-Willi syndrome caused by an imprinting defect. Schulze A, et al. **Acta Paediatr** 1997 Aug;86(8):906–10

Fine mapping of an imprinted gene for familial nonchromaffin paragangliomas, on chromosome 11q23. Baysal BE, et al. **Am J Hum Genet** 1997 Jan;60(1):121–32

Different mechanisms and recurrence risks of imprinting defects in Angelman syndrome. Bürger J, et al. **Am J Hum Genet** 1997 Jul;61(1):88–93

Genomic imprinting of the human serotonin-receptor (HTR2) gene involved in development of retinoblastoma. Kato MV, et al. **Am J Hum Genet** 1996 Nov;59(5):1084–90

Aberrant methylation in cancer [editorial; comment] Versteeg R. **Am J Hum Genet** 1997 Apr;60(4):751–4. Comment on: Am J Hum Genet 1997 Apr;60(4):765–71.

Detection of imprinting mutations in Angelman syndrome using a probe for exon alpha of SNRPN [letter] Beuten J, et al. **Am J Med Genet** 1996 May 17;63(2):414–5

Methylation analysis at three different loci within the imprinted region of chromosome 15q11-13 [letter] Buchholz T, et al. **Am J Med Genet** 1997 Oct 3;72(1):117–9

Preferential loss of the paternal alleles in the 18q- syndrome. Cody JD, et al. **Am J Med Genet** 1997 Mar 31;69(3):280–6

Imprinting is also a mechanism for immediate or delayed hemizygous expression of several uniparental haplotypes selected from the genome of each sex [letter] Engel E. **Am J Med Genet** 1997 May 2;70(1):95–8

Parent-of-origin effect in transmission of bipolar disorder. Kato T, et al. **Am J Med Genet** 1996 Nov 22;67(6):546–50

Uniparental isodisomy of chromosome 14 in two cases: an abnormal child and a normal adult [letter; comment] Papenhausen PR, et al. **Am J Med Genet** 1996 Dec 2; 66(1):90. Comment on: Am J Med Genet 1996 Dec 2;66(1):89.

Genotype and phenotype in Angelman syndrome caused by paternal UPD 15 [letter] Prasad C, et al. **Am J Med Genet** 1997 Jun 13;70(3):328–9

Down syndrome with biparental inheritance of der(14q21q) and maternally derived trisomy 21: confirmation by fluorescent in situ hybridization and microsatellite polymorphism analysis. Rajangam S, et al. **Am J Med Genet** 1997 May 2;70(1):43–7

Phenotype of maternal UPD(14) [letter; comment] [see comments] Robinson WP, et al. **Am J Med Genet** 1996 Dec 2;66(1):89. Comment on: Am J Med Genet 1995 Nov 20;59(3):271–5. Comment in: Am J Med Genet 1996 Dec 2;66(1):90.

Uniparental disomy (UPD). Genomic imprinting and a case for new genetics (prenatal and clinical implications: the "Likon" concept). Engel E. **Ann Genet** 1997;40(1):24–34 (74 ref.)

Similarities in anthropometrical traits of children and their parents in a Bulgarian population. Nikolova M. **Ann Hum Genet** 1996 Nov;60 (Pt 6):517–25

Maternally inherited encephalopathy associated with a single-base insertion in the mitochondrial tRNATrp gene. Santorelli FM, et al. **Ann Neurol** 1997 Aug;42(2):256–60

Parental imprinting and human disease. Lalande M. **Annu Rev Genet** 1996;30:173–95 (164 ref.)

Genomic imprinting: nature and clinical relevance. Hall JG. **Annu Rev Med** 1997;48:35–44 (44 ref.)

Relaxation of imprinting of human insulin-like growth factor II gene, IGF2, in sporadic breast carcinomas. Wu HK, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):123–9

Promoter-dependent tissue-specific expressive nature of imprinting gene, insulin-like growth factor II, in human tissues. Wu HK, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):221–6

Loss of imprinting of human insulin-like growth factor II gene, IGF2, in acute myeloid leukemia. Wu HK, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):466–72

Genomic evolution in mice and men: imprinted genes have little intronic content [letter; comment] McVean GT, et al. **Bioessays** 1996 Sep;18(9):773–5. Comment on: Bioessays 1996 May;18(5):351–3.

Malignant potential, major histocompatibility complex antigen expression, and genomic imprinting of rat trophoblast cell lines. Kunz HW, et al. **Biol Reprod** 1996 Jun;54(6):1288–99

Genomic imprinting and the differential roles of parental genomes in brain development. Keverne EB, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):91–100

Loss of imprinting of the insulin-like growth factor II gene in renal cell carcinoma. Nonomura N, et al. **Cancer Res** 1997 Jul 1;57(13):2575–7

IGF2 but not H19 shows loss of imprinting in human glioma. Uyeno S, et al. **Cancer Res** 1996 Dec 1;56(23):5356–9

The human/mouse imprinted genes IGF2, H19, SNRPN and ZNF127 map to two conserved autosomal clusters in a marsupial. Toder R, et al. **Chromosome Res** 1996 Jun; 4(4):295–300

Genomic imprinting. Hall JG, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov-Dec;37(6):401–4 (43 ref.)

Maternal inheritance of atopy? [editorial; comment] Doull IJ. **Clin Exp Allergy** 1996 Jun;26(6):613–5. Comment on: Clin Exp Allergy 1996 Jun;26(6):624–9.

Partial trisomy 6p due to maternal t(1;6) translocation. Song M, et al. **Clin Genet** 1996 Jun;49(6):316–7

Glomus tumours and genomic imprinting: influence of inheritance along the paternal or maternal line. Struycken PM, et al. **Clin Otolaryngol** 1997 Feb;22(1):71–6

Imprinted genes and regulation of gene expression by epigenetic inheritance. John RM, et al. **Curr Opin Cell Biol** 1996 Jun;8(3):348–53 (62 ref.)

Genomic imprinting in the brain. Keverne EB. **Curr Opin Neurobiol** 1997 Aug;7(4):463–8 (44 ref.)

Paternal transmission of the mouse Thp mutation is lethal in some genetic backgrounds. Rogers I, et al. **Dev Genet** 1997;20(1):23–8

Effect of maternal diabetes on the pattern of selected insulin resistance syndrome parameters in normal glucose tolerant subjects of two Algonquin Indian communities in Quebec. Ekoé JM, et al. **Diabetes Care** 1996 Aug;19(8):822–6

Genomic imprinting and the endometrial cycle. The expression of the imprinted gene H19 in the human female reproductive organs. Ariel I, et al. **Diagn Mol Pathol** 1997 Feb;6(1):17–25

Confinement of PGL, an imprinted gene causing hereditary paragangliomas, to a 2-cM interval on 11q22-q23 and exclusion of DRD2 and NCAM as candidate genes. van Schothorst EM, et al. **Eur J Hum Genet** 1996;4(5):267–73

The molecular basis and clinical characteristics of Maternally Inherited Diabetes and Deafness (MIDD), a recently recognized diabetic subtype. Maassen JA, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):205–11 (41 ref.)

Imprinted genes in liver carcinogenesis. De Souza AT, et al. **FASEB J** 1997 Jan;11(1):60–7 (136 ref.)

Identification of a putative DNA replication origin in the gamma-aminobutyric acid receptor subunit beta3 and alpha5 gene cluster on human chromosome 15q11-q13, a region associated with parental imprinting and allele-specific replication timing. Sinnett D, et al. **Gene** 1996 Sep 16;173(2):171–7

Random and imprinted monoallelic expression. Watanabe D, et al. **Genes Cells** 1996 Sep;1(9):795–802 (78 ref.)

Deletion of the H19 transcription unit reveals the existence of a putative imprinting control element. Ripoche MA, et al. **Genes Dev** 1997 Jun 15;11(12):1596–604

Maternal exposure to paternal HLA does not explain the postpartum increase in rheumatoid arthritis. Brennan P, et al. **Genet Epidemiol** 1996;13(4):411–8

Time of initiation and site of action of the mouse chromosome 11 imprinting effects. Cattanach BM, et al. **Genet Res** 1996 Aug;68(1):35–44

Distortion of Mendelian recovery ratio for a mouse HSR is caused by maternal and zygotic effects. Weichenhan D, et al. **Genet Res** 1996 Oct;68(2):125–9

Genomic imprinting of chromatin in Drosophila melanogaster. Bishop CP, et al. **Genetica** 1996 Jan; 97(1):33–7

The evolution of genomic imprinting. Mochizuki A, et al. **Genetics** 1996 Nov;144(3):1283–95

Mutation-selection balance at a modifier-of-imprinting locus. Spencer HG, et al. **Genetics** 1996 Sep;144(1):361–7

The human homolog of a mouse-imprinted gene, Peg3, maps to a zinc finger gene-rich region of human chromosome 19q13.4. Kim J, et al. **Genome Res** 1997 May;7(5):532–40

Genomic imprinting and chromosomal localization of the human MEST gene. Nishita Y, et al. **Genomics** 1996 Sep 15;36(3):539–42

Maintenance of imprinting of the insulin-like growth factor II gene (IGF2) and the small nuclear ribonucleoprotein polypeptide N gene (SNRPN) in the human uterus and leiomyoma. Hashimoto K, et al. **Gynecol Obstet Invest** 1996;41(1):50–4

A female sterile embryonic lethal in the maternally haplo-insufficient 21 B8.C1-21 C8.D1 genomic region of Drosophila melanogaster. Chandrashekaran S. **Hereditas** 1995;123(2):121–6

Ataxic gait and mental retardation with absence of the paternal chromosome 8 and an idic(8)(p23.3): imprinting effect or nullisomy for distal 8p genes? Piantanida M, et al. **Hum Genet** 1997 Jun;99(6):766–71

Identification of de novo deletions at the NF1 gene: no preferential paternal origin and phenotypic analysis of patients. Valero MC, et al. **Hum Genet** 1997 Jun;99(6):720–6

Imprinting mutation in the Beckwith-Wiedemann syndrome leads to biallelic IGF2 expression through an H19-independent pathway. Brown KW, et al. **Hum Mol Genet** 1996 Dec;5(12):2027–32

Chromosome 11p15.5 regional imprinting: comparative analysis of KIP2 and H19 in human tissues and Wilms' tumors. Chung WY, et al. **Hum Mol Genet** 1996 Aug; 5(8):1101–8

Genomic imprinting of human p57KIP2 and its reduced expression in Wilms' tumors. Hatada I, et al. **Hum Mol Genet** 1996 Jun;5(6):783–8

Mouse/human sequence divergence in a region with a paternal-specific methylation imprint at the human H19 locus. Jinno Y, et al. **Hum Mol Genet** 1996 Aug; 5(8):1155–61

Human PEG1/MEST, an imprinted gene on chromosome 7. Kobayashi S, et al. **Hum Mol Genet** 1997 May;6(5):781–6

Further evidence for an imprinted gene for neonatal diabetes localised to chromosome 6q22–q23. Temple IK, et al. **Hum Mol Genet** 1996 Aug;5(8):1117–21

An imprinted mouse transcript homologous to the human imprinted in Prader–Willi syndrome (IPW) gene. Wevrick R, et al. **Hum Mol Genet** 1997 Feb;6(2):325–32

Example of somatic mosaicism in a series of de novo neurofibromatosis type 1 cases due to a maternally derived deletion. Ainsworth PJ, et al. **Hum Mutat** 1997;9(5):452–7

A familial deletion in the Prader–Willi syndrome region including the imprinting control region. Schuffenhauer S, et al. **Hum Mutat** 1996;8(3):288–92

Relaxation of insulin-like growth factor 2 gene imprinting in esophageal cancer. Mori M, et al. **Int J Cancer** 1996 Nov 15;68(4):441–6

What role might lampbrush chromosomes play in maternal gene expression? Angelier N, et al. **Int J Dev Biol** 1996 Aug;40(4):645–52 (40 ref.)

X-chromosome activity: impact of imprinting and chromatin structure. Jamieson RV, et al. **Int J Dev Biol** 1996 Dec; 40(6):1065–80 (170 ref.)

Regulation of Igf2 imprinting in development and disease. Reik W, et al. **Int J Dev Biol** 1996;Suppl 1:53S–54S

Genomic imprinting: significance in development and diseases and the molecular mechanisms. Nakao M, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):467–73 (50 ref.)

Parental chromosome-specific chromatin conformation in the imprinted U2af1–rs1 gene in the mouse. Feil R, et al. **J Biol Chem** 1997 Aug 15;272(33):20893–900

Aberrant methylation of an imprinted gene U2af1–rs1(SP2) caused by its own transgene. Hatada I, et al. **J Biol Chem** 1997 Apr 4;272(14):9120–2

Genomic deletion of an imprint maintenance element abolishes imprinting of both insulin-like growth factor II and H19. Hu JF, et al. **J Biol Chem** 1997 Aug 15; 272(33):20715–20

Ribonucleic acid expression of the clustered imprinted genes, p57KIP2, insulin-like growth factor II, and H19, in adrenal tumors and cultured adrenal cells. Liu J, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1766–71

Indirect inguinal hernia among Bedouins [letter] Grover VK, et al. **J Med Genet** 1996 Oct;33(10):887

Mom and pop genetics: genomic imprinting changes may illuminate cancer [news] McBride G. **J Natl Cancer Inst** 1997 Sep 3;89(17):1256–8

Variable imprinting of H19 and IGF2 in fetal cerebellum and medulloblastoma. Albrecht S, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1270–6

The mouse chromosome 7 distal imprinting domain maps to G-bands F4/F5. Beechey CV, et al. **Mamm Genome** 1997 Apr;8(4):236–40

A candidate model for Angelman syndrome in the mouse. Cattanach BM, et al. **Mamm Genome** 1997 Jul;8(7):472–8

Genomic imprinting: potential function and mechanisms revealed by the Prader–Willi and Angelman syndromes. Glenn CC, et al. **Mol Hum Reprod** 1997 Apr;3(4):321–32 (110 ref.)

Genomic imprinting abnormalities: a new potential risk of assisted reproduction. Tesarik J, et al. **Mol Hum Reprod** 1996 May;2(5):295–8 (28 ref.)

The product of the imprinted H19 gene is an oncofetal RNA. Ariel I, et al. **Mol Pathol** 1997 Feb;50(1):34–44

Imprinting moves to the centre [news; comment] Ferguson-Smith AC. **Nat Genet** 1996 Oct;14(2):119–21. Comment on: Nat Genet 1996 Oct;14(2):163–70. Comment on: Nat Genet 1996 Oct;14(2):171–3.

Methylation-specific PCR simplifies imprinting analysis [letter] Kubota T, et al. **Nat Genet** 1997 May;16(1):16–7

Human KVLQT1 gene shows tissue-specific imprinting and encompasses Beckwith–Wiedemann syndrome chromosomal rearrangements [see comments] Lee MP, et al. **Nat Genet** 1997 Feb;15(2):181–5. Comment in: Nat Genet 1997 Feb;15(2):113–5.

IGF2 is parentally imprinted in human preimplantation embryos [letter] Lighten AD, et al. **Nat Genet** 1997 Feb; 15(2):122–3

An imprinting element from the mouse H19 locus functions as a silencer in Drosophila. Lyko F, et al. **Nat Genet** 1997 Jun;16(2):171–3

Characterization of the full fragile X syndrome mutation in fetal gametes. Malter HE, et al. **Nat Genet** 1997 Feb; 15(2):165–9

KVLQT1, the rhythm of imprinting [news; comment] Mannens M, et al. **Nat Genet** 1997 Feb;15(2):113–5. Comment on: Nat Genet 1997 Feb;15(2):181–5. Comment on: Nat Genet 1997 Feb;15(2):186–9.

Nonhomologous Robertsonian translocations form predominantly during female meiosis [letter] Page SL, et al. **Nat Genet** 1997 Mar;15(3):231–2

Epilepsy and mental retardation limited to females: an X-linked dominant disorder with male sparing [see comments] Ryan SG, et al. **Nat Genet** 1997 Sep;17(1):92–5 . Comment in: Nat Genet 1997 Sep;17(1):3.

Fishing out the Angelman syndrome gene [news] Donlon T. **Nat Med** 1997 Mar;3(3):281

Human genetics. A father's imprint on his daughter's thinking [news; comment] McGuffin P, et al. **Nature** 1997 Jun 12; 387(6634):652–3. Comment on: Nature 1997 Jun 12;387(6634):705–8.

Evidence from Turner's syndrome of an imprinted X-linked locus affecting cognitive function [see comments] Skuse DH, et al. **Nature** 1997 Jun 12;387(6634):705–8. Comment in: Nature 1997 Jun 12;387(6634):652–3.

Genomic imprinting in Tourette's syndrome [letter; comment] Caron C, et al. **Neurology** 1997 Aug;49(2):637–8 . Comment on: Neurology 1995 May;45(5):924–8.

Sex of parent transmission effect in Tourette's syndrome: evidence for earlier age at onset in maternally transmitted cases suggests a genomic imprinting effect [see comments] Eapen V, et al. **Neurology** 1997 Apr;48(4):934–7. Comment in: Neurology 1997 Apr;48(4):801–2.

Characterization of the imprinted IPW gene: allelic expression in normal and tumorigenic human tissues. Rachmilewitz J, et al. **Oncogene** 1996 Oct 17;13(8):1687–92

Human p57(KIP2) defines a new imprinted domain on chromosome 11p but is not a tumour suppressor gene in Wilms tumour. Taniguchi T, et al. **Oncogene** 1997 Mar 13; 14(10):1201–6

Gene silencing mediated by promoter homology occurs at the level of transcription and results in meiotically heritable alterations in methylation and gene activity. Park YD, et al. **Plant J** 1996 Feb;9(2):183–94

Loss of the maternal H19 gene induces changes in Igf2 methylation in both cis and trans. Forné T, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10243–8

Screening for imprinted genes by allelic message display: identification of a paternally expressed gene impact on mouse chromosome 18. Hagiwara Y, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9249–54

The structural H19 gene is required for transgene imprinting. Pfeifer K, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):13876–83

Minimal definition of the imprinting center and fixation of chromosome 15q11–q13 epigenotype by imprinting mutations. Saitoh S, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7811–5

Paternal and maternal DNA lineages reveal a bottleneck in the founding of the Finnish population. Sajantila A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):12035–9

Structure of the imprinted mouse Snrpn gene and establishment of its parental-specific methylation pattern. Shemer R, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10267–72

Molecular evolution of imprinted genes: no evidence for antagonistic coevolution. McVean GT, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):739–46

NIEHS/EPA Workshops. Genomic imprinting. Stewart CL, et al. **Reprod Toxicol** 1997 Mar–Jun;11(2–3):309–16

DNA methylation and imprinting: why bother? [see comments] Jaenisch R. **Trends Genet** 1997 Aug;13(8):323–9 (68 ref.). Comment in: Trends Genet 1997 Aug;13(8):293–5.

Imprinting in clusters: lessons from Beckwith–Wiedemann syndrome [see comments] Reik W, et al. **Trends Genet** 1997 Aug;13(8):330–4 (52 ref.). Comment in: Trends Genet 1997 Aug;13(8):293–5.

[Parental genomic imprinting and its implications in growth] Battin J. **Arch Pediatr** 1997;4(2 Suppl 2):125s–130s (34 ref.) **(Fre)**

[Disruption of genomic imprinting in human carcinogenesis] Ogawa O. **Hum Cell** 1996 Mar;9(1):37–42 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Altered genomic imprinting in the IGF2 and H19 genes in human lung cancer] Kondo M, et al. **Nippon Rinsho** 1996 Feb;54(2):492–6 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Genomic imprinting] Kato R, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2325–34 (27 ref.) **(Jpn)**

[Genomic imprinting and its role in Prader–Willi and Angelman syndromes] Mglinets VA, et al. **Genetika** 1996 Dec;32(12):1605–15 (91 ref.) (Eng. Abstr.) **(Rus)**

[Genomic imprinting as a universal mechanism of gene function in development] Redina OE. **Genetika** 1996 May; 32(5):609–13 (68 ref.) (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Reversal of loss of imprinting in tumor cells by 5-aza-2'-deoxycytidine. Barletta JM, et al. **Cancer Res** 1997 Jan 1;57(1):48–50

GENETICS

Phenotypic differences in Angelman syndrome patients: imprinting mutations show less frequently microcephaly and hypopigmentation than deletions. Bürger J, et al. **Am J Med Genet** 1996 Dec 11;66(2):221–6

Dystrophin expression in heterozygous mdx/+ mice indicates imprinting of X chromosome inactivation by parent-of-origin-, tissue-, strain- and position-dependent factors. Bittner RE, et al. **Anat Embryol (Berl)** 1997 Feb; 195(2):175–82

Genomic imprinting in unstable DNA diseases. Petronis A. **Bioessays** 1996 Jul;18(7):587–90

Association of IGF2 and H19 imprinting with choriocarcinoma development. Arima T, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):39–47

Relaxation of imprinting of the insulin-like growth factor II gene in colorectal cancer. Kinouchi Y, et al. **Cancer Lett** 1996 Oct 1;107(1):105–8

Nucleotide sequence of a 28-kb mouse genomic region comprising the imprinted Igf2 gene. Sasaki H, et al. **DNA Res** 1996 Oct 31;3(5):331–5

Maternal and paternal genomes function independently in mouse ova in establishing expression of the imprinted genes Snrpn and Igf2r: no evidence for allelic trans-sensing and counting mechanisms. Szabó PE, et al. **EMBO J** 1996 Nov 15;15(22):6018–25

Genomic imprinting in disorders of growth. Lindgren V. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):503–21 (110 ref.)

A novel human homologue of yeast nucleosome assembly protein, 65 kb centromeric to the p57KIP2 gene, is biallelically expressed in fetal and adult tissues. Hu RJ, et al. **Hum Mol Genet** 1996 Nov;5(11):1743–8

Imprinted segments in the human genome: different DNA methylation patterns in the Prader–Willi/Angelman syndrome region as determined by the genomic sequencing method. Zeschnigk M, et al. **Hum Mol Genet** 1997 Mar; 6(3):387–95

Analysis of parent-specific gene expression in early mouse embryos and embryonic stem cells using high-resolution two-dimensional electrophoresis of proteins. Bowden L, et al. **Int J Dev Biol** 1996 Apr;40(2):499–506

Fortuitous detection of uniparental isodisomy of chromosome 6. Bittencourt MC, et al. **J Med Genet** 1997 Jan;34(1):77–8

Epigenetic modification and uniparental inheritance of H19 in Beckwith–Wiedemann syndrome. Catchpoole D, et al. **J Med Genet** 1997 May;34(5):353–9

Clinical features in four patients with Angelman syndrome resulting from paternal uniparental disomy. Smith A, et al. **J Med Genet** 1997 May;34(5):426–9

Genomic imprinting and its relevance to genetic diseases. Niikawa N. **Jpn J Hum Genet** 1996 Dec;41(4):351–61 (32 ref.)

Polymorphic and tissue-specific imprinting of the human Wilms tumor gene, WT1. Nishiwaki K, et al. **Jpn J Hum Genet** 1997 Mar;42(1):205–11

Ovarian teratomas associated with the insertion of an imprinted transgene. Fafalios MK, et al. **Mamm Genome** 1996 Mar;7(3):188–93

Genomic imprinting and Wilms' tumor. Moulton T, et al. **Med Pediatr Oncol** 1996 Nov;27(5):476–83

Role of genomic imprinting in Wilms' tumour and overgrowth disorders. Reeve AE. **Med Pediatr Oncol** 1996 Nov;27(5):470–5 (50 ref.)

A 5' differentially methylated sequence and the 3'-flanking region are necessary for H19 transgene imprinting. Elson DA, et al. **Mol Cell Biol** 1997 Jan;17(1):309–17

Mouse U2af1–rs1 is a neomorphic imprinted gene. Nabetani A, et al. **Mol Cell Biol** 1997 Feb;17(2):789–98

A 5'2-kilobase-pair region of the imprinted mouse H19 gene exhibits exclusive paternal methylation throughout development. Tremblay KD, et al. **Mol Cell Biol** 1997 Aug; 17(8):4322–9

H19 in normal development and neoplasia. Looijenga LH, et al. **Mol Reprod Dev** 1997 Mar;46(3):419–39 (244 ref.)

Imprint switching on human chromosome 15 may involve alternative transcripts of the SNRPN gene [see comments] Dittrich B, et al. **Nat Genet** 1996 Oct;14(2):163–70. Comment in: Nat Genet 1996 Oct;14(2):119–21.

An imprinted gene p57KIP2 is mutated in Beckwith–Wiedemann syndrome [see comments] Hatada I, et al. **Nat Genet** 1996 Oct;14(2):171–3. Comment in: Nat Genet 1996 Oct;14(2):119–21.

Unique expression patterns of H19 in human testicular cancers of different etiology. Verkerk AJ, et al. **Oncogene** 1997 Jan 9;14(1):95–107

Aberrant imprinting of the insulin-like growth factor II receptor gene in Wilms' tumor. Xu YQ, et al. **Oncogene** 1997 Mar 6;14(9):1041–6

Cytogenetic and age-dependent risk factors associated with uniparental disomy 15. Robinson WP, et al. **Prenat Diagn** 1996 Sep;16(9):837–44

The evolution of genomic imprinting: two modifier-locus models. Spencer HG, et al. **Theor Popul Biol** 1997 Feb; 51(1):23–35

X chromosome imprinting and inactivation in the early mammalian embryo. Latham KE. **Trends Genet** 1996 Apr; 12(4):134–8 (37 ref.)

IMMUNOLOGY

Selective recognition of malaria antigens by human serum antibodies is not genetically determined but demonstrates some features of clonal imprinting. Taylor RR, et al. **Int Immunol** 1996 Jun;8(6):905–15

PHYSIOLOGY

Expression of H19 does not influence the timing of replication of the Igf2/H19 imprinted region. Windham CQ, et al. **Dev Genet** 1997;20(1):29–35

Stage-specific and cell type-specific aspects of genomic imprinting effects in mammals. Latham KE. **Differentiation** 1995 Dec;59(5):269–82 (147 ref.)

DNA methylation in genomic imprinting [see comments] Tycko B. **Mutat Res** 1997 Apr;386(2):131–40 (75 ref.). Comment in: Mutat Res 1997 Apr;386(2):103–5.

GENOMIC LIBRARY

GENOMIC LIBRARY

see related
CHROMOSOMES, YEAST ARTIFICIAL
DNA, RECOMBINANT
HUMAN GENOME PROJECT

Mapping the Trypanosoma cruzi genome: analyses of representative cosmid libraries. Hanke J, et al. **Biotechniques** 1996 Oct;21(4):686–8, 690–3

Molecular cloning of chick pineal tryptophan hydroxylase and circadian oscillation of its mRNA levels. Florez JC, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):25–30

YAC cloning and identification of rice (Oriza sativa L.) genomic DNA. Wang C, et al. **Chin J Biotechnol** 1996; 12(1):9–16

Isolation of DNA from the centromere of human chromosome 7 by microdissection. Behrens F, et al. **Chromosome Res** 1997 Jun;5(4):215–20

Identification and characterization of a heat shock protein 70 family member in channel catfish (Ictalurus punctatus). Luft JC, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):169–74

Application of repetitive sequence–based PCR (inter–LINE PCR) for the analysis of genomic rearrangements and for the genome characterization on different taxonomic levels. Smida J, et al. **Genet Anal** 1996 Oct;13(4):95–8

A chromosome–specific microdissected library increases marker density on bovine chromosome 1 [letter] Sonstegard TS, et al. **Genome Res** 1997 Jan;7(1):76–80

Construction and characterization of a 10–genome equivalent yeast artificial chromosome library for the laboratory rat, Rattus norvegicus. Cai L, et al. **Genomics** 1997 Feb 1; 39(3):385–92

Construction and characterization of a Plasmodium vivax genomic library in yeast artificial chromosomes. Camargo AA, et al. **Genomics** 1997 Jun 15;42(3):467–73

Construction of highly extensive polymorphic DNA libraries by in–gel competitive reassociation procedure. Inoue S, et al. **Genomics** 1996 Feb 1;31(3):271–6

Construction and characterization of a human bacterial artificial chromosome library. Kim UJ, et al. **Genomics** 1996 Jun 1;34(2):213–8

Isolation and subcloning of chitinase clone from chickpea genomic library. Grover A, et al. **Indian J Exp Biol** 1996 Jun;34(6):594–6

Construction and screening of subgenomic library of chickpea (Cicer arietinum L.) for legumin genes and their analysis. Mandaokar AD, et al. **Indian J Exp Biol** 1996 Jun;34(6):496–501

Isolation and characterization of cell–specific cDNA clones from a subtractive library of the ocular ciliary body of a single normal human donor: transcription and synthesis of plasma proteins. Escribano J, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):921–31

Function of RNH–1/14–3–3 beta gene in cellular differentiation and proliferation. Takai R, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1045–53

A novel gene expressed in rat ameloblasts codes for proteins with cell binding domains. Cerný R, et al. **J Bone Miner Res** 1996 Jul;11(7):883–91

A comprehensive large–insert yeast artificial chromosome library for physical mapping of the mouse genome. Haldi ML, et al. **Mamm Genome** 1996 Oct;7(10):767–9

Construction of a swine YAC library allowing an efficient recovery of unique and centromeric repeated sequences. Rogel–Gaillard C, et al. **Mamm Genome** 1997 Mar; 8(3):186–92

Using the SELEX combinatorial chemistry process to find high affinity nucleic acid ligands to target molecules. Tuerk C. **Methods Mol Biol** 1997;67:219–30

Libraries for genomic SELEX. Singer BS, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):781–6

Construction and rapid screening of a representative yeast artificial chromosome library from the Plasmodium falciparum strain Dd2. Camargo AA, et al. **Parasitol Res** 1997;83(1):87–9

The CDNA and genomic DNA sequences of a mammalian neurotoxin from the scorpion Buthus martensii Karsch. Xiong YM, et al. **Toxicon** 1997 Jul;35(7):1025–31

Molecular screening of xenodonor genomes for species–specific endogenous retroviral DNA sequences. Hoopes CW, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):897–8

An easy non–radioactive procedure to check the quality of the ligation steps during the construction of cDNA libraries. Caballero JL, et al. **Trends Genet** 1996 Dec; 12(12):501–2

[Tetranucleotide markers based on a cosmid from the ordered clone library of human chromosome 13] Ivanova GM, et al. **Mol Biol (Mosk)** 1997 May–Jun;31(3):407–17 **(Rus)**

[Creation of genomic DNA libraries for Pseudomonas mallei and Pseudomonas pseudomallei] Abaev IV, et al. **Mol Gen Mikrobiol Virusol** 1997;(1):17–22 (Eng. Abstr.) **(Rus)**

GENOTOXICITY TESTS see **MUTAGENICITY TESTS**

GENOTOXINS see **MUTAGENS**

GENOTYPE

Diagnosis of Alzheimer's disease: defining genetic profiles (genotype vs phenotype). Cacabelos R. **Acta Neurol Scand Suppl** 1996;165:72–84 (104 ref.)

Inconstant apolipoprotein E (ApoE)–like immunoreactivity in amyloid beta protein deposits: relationship with APOE genotype in aging brain and Alzheimer's disease. Uchihara T, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):180–5

Fumonisins in maize genotypes grown in various geographic areas. Visconti A. **Adv Exp Med Biol** 1996;392:193–204

Source of Pneumocystis carinii in recurrent episodes of pneumonia in AIDS patients. Keely SP, et al. **AIDS** 1996 Jul;10(8):881–8

Ethanol self–administration is genetically independent of locomotor stimulation in fast and slow mice. Sanchez FP, et al. **Alcohol** 1996 Jan–Feb;13(1):79–84

A study on ADH2 and ALDH2 genotyping by PCR–RFLP and SSCP analyses with description of allele and genotype frequencies in Japanese, Finn and Lapp populations. Suzuki K, et al. **Alcohol Alcohol** 1994;29 Suppl 1:21–7

Hepatic messenger RNA contents of cytochrome P4502E1 in patients with different P4502E1 genotypes. Tsutsumi M, et al. **Alcohol Alcohol** 1994;29 Suppl 1:29–32

Effects of acute prenatal ethanol administration in a reciprocal cross of C57BL/6J and short–sleep mice: maternal effects and nonmaternal factors. Gilliam DM, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):28–34

Intravenous ethanol self–administration in C57BL/6J and DBA/2J mice. Grahame NJ, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):56–62

Alcohol and aldehyde dehydrogenase genotypes and drinking behavior in Japanese. Higuchi S, et al. **Alcohol Clin Exp Res** 1996 May;20(3):493–7

Subtypes of alcohol–dependent men: a typology based on relative genetic and environmental loading. Johnson EO, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1472–80

Cytochromes P4502E1 and P4501A1 genotypes and susceptibility to cirrhosis or upper aerodigestive tract cancer in alcoholic caucasians. Lucas D, et al. **Alcohol Clin Exp Res** 1996 Sep;20(6):1033–7

Genotypes of alcohol–metabolizing enzymes and the risk for alcoholic chronic pancreatitis in Japanese alcoholics. Matsumoto M, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):289A–292A

Effects of ethanol and temperature on NMDA receptor function in different mouse genotypes. Musleh W, et al. **Alcohol Clin Exp Res** 1996 Oct;20(7):1299–304

Glutathione–S–transferase GST M1 "null" genotype and the risk of alcoholic liver disease. Savolainen VT, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1340–5

The WHO/ISBRA study on state and trait markers in alcoholism: progress report. Tabakoff B. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):243A–247A

Multilocus genotypes, a tree of individuals, and human evolutionary history. Mountain JL, et al. **Am J Hum Genet** 1997 Sep;61(3):705–18

Identifying marker typing incompatibilities in linkage analysis. Stringham HM, et al. **Am J Hum Genet** 1996 Oct; 59(4):946–50

Hepatitis C virus genotype, hepatitis C virus RNA titers, and response to interferon [letter; comment] Taliani G, et al. **Ann Intern Med** 1997 Jul 1;127(1):89. Comment on: Ann Intern Med 1996 Oct 15;125(8):634–9.

Phenotypic and genotypic characterization of phenanthrene–degrading fluorescent Pseudomonas biovars. Johnsen K, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3818–25

Mantle cell lymphoma. Rapid polymerase chain reaction–based genotyping of a morphologically heterogeneous entity. Segal GH, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):835–41

Segregation analysis of plasma apolipoprotein B levels in familial combined hyperlipidemia. Bredie SJ, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):834–40

Five frequent polymorphisms of the PAI–1 gene: lack of association between genotypes, PAI activity, and triglyceride levels in a healthy population. Henry M, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):851–8

MTHFR thermolabile genotype frequencies and longevity in Northern Ireland [letter] Harmon DL, et al. **Atherosclerosis** 1997 May;131(1):137–8

Apolipoprotein E genotyping in Alzheimer's disease in an Australian sample. Yang JG, et al. **Aust N Z J Med** 1996 Oct;26(5):658–61

Multivariate multipoint linkage analysis of quantitative trait loci. Eaves LJ, et al. **Behav Genet** 1996 Sep;26(5):519–25

The effect of early experience on MHC–based mate preferences in two B10.W strains of mice (Mus domesticus). Eklund A. **Behav Genet** 1997 May;27(3):223–9

An improved multipoint sib–pair analysis of quantitative traits. Fulker DW, et al. **Behav Genet** 1996 Sep;26(5):527–32

The effects of extended training and acute administration of an anxiolytic on avoidance learning and intertrial responding in the Syracuse strains of rats. Gendron CM, et al. **Behav Genet** 1996 Nov;26(6):575–80

Mapping quantitative trait loci for open–field behavior in mice. Gershenfeld HK, et al. **Behav Genet** 1997 May; 27(3):201–10

Hippocampal morphology in the inbred mouse strains NZB and CBA/H and their reciprocal congenics for the nonpseudoautosomal region of the Y chromosome. Guillot PV, et al. **Behav Genet** 1996 Jan;26(1):1–5

Issues in the genetics of social behavior: revisited. Hahn ME, et al. **Behav Genet** 1996 Sep;26(5):463–70 (24 ref.)

Genetic and developmental influences on infant mouse ultrasonic calling. I. A diallel analysis of the calls of 3–day olds. Hahn ME, et al. **Behav Genet** 1997 Mar;27(2):133–43

Hippocampal morphology and open–field behavior in Mus musculus domesticus and Mus spretus inbred mice. Laghmouch A, et al. **Behav Genet** 1997 Jan;27(1):67–73

Inheritance of hypoxic exercise tolerance in mice. McCall RD, et al. **Behav Genet** 1997 May;27(3):181–90

Searching for candidate genes with effects on an agonistic behavior, offense, in mice. Maxson SC. **Behav Genet** 1996 Sep;26(5):471–6 (70 ref.)

Success in mating: a coordinated approach to fitness through genotypes incorporating genes for stress resistance and heterozygous advantage under stress. Parsons P. **Behav Genet** 1997 Jan;27(1):75–81

Genetic mediation of the correlation between peripheral nerve conduction velocity and IQ. Rijsdijk FV, et al. **Behav Genet** 1997 Mar;27(2):87–98

Aggression in wild house mice: current state of affairs. Sluyter F, et al. **Behav Genet** 1996 Sep;26(5):489–96 (55 ref.)

Studies on wild house mice. VII. Prenatal maternal environment and aggression. Sluyter F, et al. **Behav Genet** 1996 Sep;26(5):513–8

Genetic and environmental contributions to the correlation between alcohol consumption and symptoms of anxiety and depression. Results from a bivariate analysis of Norwegian twin data. Tambs K, et al. **Behav Genet** 1997 May; 27(3):241–50

Effects of censored variables on family studies. van den Oord EJ, et al. **Behav Genet** 1997 Mar;27(2):99–112

Fear–potentiated startle in two strains of inbred mice. Falls WA, et al. **Behav Neurosci** 1997 Aug;111(4):855–61

Taste aversion learning in fyn mutant mice. Schafe GE, et al. **Behav Neurosci** 1996 Aug;110(4):845–8

HCV transmission through blood transfusion: are HCV–RNA titer in donor serum and genotype major determinants of infection outcome? Cardoso MS, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:225–30

Rhesus D genotyping in amniotic fluid. Müller TH, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:1–6

No association between apolipoprotein E genotype and late–onset depression in Alzheimer's disease. Cantillon M, et al. **Biol Psychiatry** 1997 Jan 15;41(2):246–8

The effect of apolipoprotein E genotype on expression of an autosomal dominant schizophreniform disorder with progressive dementia and neurofibrillary tangles. Tsuang D, et al. **Biol Psychiatry** 1997 Jan 15;41(2):191–5

Determination of human NAT2 acetylator genotype by oligonucleotide ligation assay. Bigler J, et al. **Biotechniques** 1997 Apr;22(4):682–4, 686, 688 passim

Modulation of non–templated nucleotide addition by Taq DNA polymerase: primer modifications that facilitate genotyping. Brownstein MJ, et al. **Biotechniques** 1996 Jun; 20(6):1004–6, 1008–10

Evaluation of different amplification protocols for use in primer–extension preamplification. Casas E, et al. **Biotechniques** 1996 Feb;20(2):219–25

Substrate nucleotide–determined non–templated addition of adenine by Taq DNA polymerase: implications for PCR–based genotyping and cloning. Magnuson VL, et al. **Biotechniques** 1996 Oct;21(4):700–9

Isolation of high molecular weight DNA for reliable genotyping of transgenic mice. Malumbres M, et al. **Biotechniques** 1997 Jun;22(6):1114–9

High sensitivity of laser–induced fluorescence detection in capillary gel electrophoresis for accurate apolipoprotein E genotyping. Schlenck A, et al. **Biotechniques** 1997 Apr; 22(4):736–42

MYCL genotypes and loss of heterozygosity in non–small–cell lung cancer. Fong KM, et al. **Br J Cancer** 1996 Dec;74(12):1975–8

Genetic typing of human platelet antigen 1 (HPA–1) by oligonucleotide ligation assay in a specific and reliable semi–automated system. Zotz RB, et al. **Br J Haematol** 1997 Jan;96(1):198–203

Hierarchical modeling of gene–environment interactions: estimating NAT2 genotype–specific dietary effects on adenomatous polyps. Aragaki CC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):307–14

Predictors of N–acetyltransferase activity: should caffeine phenotyping and NAT2 genotyping be used interchangeably in epidemiological studies? Le Marchand L, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jun; 5(6):449–55

Arylamine N–acetyltransferase 1 (NAT1) and 2 (NAT2) polymorphisms in susceptibility to bladder cancer: the influence of smoking. Okkels H, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Apr;6(4):225–31

A multiplex PCR procedure for polymorphic analysis of GSTM1 and GSTT1 genes in population studies. Abdel–Rahman SZ, et al. **Cancer Lett** 1996 Oct 22; 107(2):229–33

A homogeneous method for genotyping with fluorescence polarization. Gibson NJ, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1336–41

Frequency of phenotype–genotype discrepancies at the apolipoprotein E locus in a large population study. Lahoz C, et al. **Clin Chem** 1996 Nov;42(11):1817–23

Phenotype versus genotype: is emerging methodology improving disease identification? Goldberg DM. **Clin Chim Acta** 1997 Jan 17;257(2):141–2

Genetic heterogeneity of hepatitis C virus. The clinical significance of genotypes and quasispecies behavior. Marrone A, et al. **Clin Lab Med** 1996 Jun;16(2):429–49 (74 ref.)

The cytochrome P450 2D6 (CYP2D6) enzyme polymorphism: screening costs and influence on clinical outcomes in psychiatry. Chen S, et al. **Clin Pharmacol Ther** 1996 Nov;60(5):522–34

Grouper--creation of marker sets for multiplexed genotyping. Fuchs R. **Comput Appl Biosci** 1997 Jun; 13(3):239–41

A general algorithm to compute multilocus genotype frequencies under various mating systems. Hospital F, et al. **Comput Appl Biosci** 1996 Dec;12(6):455–62

Left–handedness in twins: genes or environment? Orlebeke JF, et al. **Cortex** 1996 Sep;32(3):479–90

The Thrifty Phenotype hypothesis: how does it look after 5 years? Hales CN, et al. **Diabet Med** 1997 Mar;14(3):189–95 (53 ref.)

Mating assortment and the liability to substance abuse. Vanyukov MM, et al. **Drug Alcohol Depend** 1996 Sep; 42(1):1–10 (100 ref.)

Rh D/d genotyping by quantitative polymerase chain reaction and capillary zone electrophoresis. Cossu G, et al. **Electrophoresis** 1996 Dec;17(12):1911–5

Comparison of different electrophoretic methods for digital typing of the MS32 (D1S8) locus. Rodriguez–Calvo MS, et al. **Electrophoresis** 1996 Aug;17(8):1294–8

Relationship estimation in affected sib pair analysis of late–onset diseases. Göring HH, et al. **Eur J Hum Genet** 1997 Mar–Apr;5(2):69–77

Phenylketonuria genotypes correlated to metabolic phenotype groups in Norway. Eiken HG, et al. **Eur J Pediatr** 1996 Jul;155(7):554–60

Cystic fibrosis mutations in Romania. Popa I, et al. **Eur J Pediatr** 1997 Mar;156(3):212–3

Genetic typing of the mouse ob mutation by PCR and restriction enzyme analysis. Hirasawa T, et al. **Exp Anim** 1997 Jan;46(1):75–8

Mouse and rat genotype choices. Sprott RL. **Exp Gerontol** 1997 Jan–Apr;32(1–2):79–86 (15 ref.)

Alzheimer's disease: phenotypes and genotypes. Sorbi S, et al. **Funct Neurol** 1997 May–Aug;12(3–4):147–51 (13 ref.)

An index of information content for genotype probabilities derived from segregation analysis. Kinghorn BP. **Genetics** 1997 Feb;145(2):479–83

An approach to high–throughput genotyping. Hall JM, et al. **Genome Res** 1996 Sep;6(9):781–90 (32 ref.)

Sensitivity, reproducibility, and accuracy in short tandem repeat genotyping using capillary array electrophoresis. Mansfield ES, et al. **Genome Res** 1996 Sep;6(9):893–903

ABO genotyping in Italian blood donors. Villa A, et al. **Haematologica** 1996 Nov–Dec;81(6):492–6

Hepatitis C virus 1b, cirrhosis, and hepatocellular carcinoma [editorial; comment] Brechot C. **Hepatology** 1997 Mar; 25(3):772–4. Comment on: Hepatology 1997 Mar;25(3):754–8.

Hepatitis C virus genotypes and risk of hepatocellular carcinoma in cirrhosis: a prospective study [see comments] Bruno S, et al. **Hepatology** 1997 Mar;25(3):754–8. Comment in: Hepatology 1997 Mar;25(3):772–4.

Pretreatment virus load and multiple amino acid substitutions in the interferon sensitivity–determining region predict the outcome of interferon treatment in patients with chronic genotype 1b hepatitis C virus infection [see comments] Chayama K, et al. **Hepatology** 1997 Mar;25(3):745–9. Comment in: Hepatology 1997 Mar;25(3):769–71.

The interferon sensitivity determining region: all hepatitis C virus isolates are not the same [editorial; comment] Herion D, et al. **Hepatology** 1997 Mar;25(3):769–71. Comment on: Hepatology 1997 Mar;25(3):740–4. Comment on: Hepatology 1997 Mar;25(3):745–9. Comment on: Hepatology 1997 Mar;25(3):750–3.

Analysis of genotypes and amino acid residues 2209 to 2248 of the NS5A region of hepatitis C virus in relation to the response to interferon–beta therapy [see comments] Kurosaki M, et al. **Hepatology** 1997 Mar;25(3):750–3. Comment in: Hepatology 1997 Mar;25(3):769–71.

Analysis of histopathological manifestations of chronic hepatitis C virus infection with respect to virus genotype. Mihm S, et al. **Hepatology** 1997 Mar;25(3):735–9

The predominance of hepatitis delta virus genotype I among chronically infected Italian patients. Niro GA, et al. **Hepatology** 1997 Mar;25(3):728–34

Genotype and phenotype in cystic fibrosis. Tsui LC, et al. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):115–8, 123–9, 134, passim (9 ref.)

The effects of genotyping errors and interference on estimation of genetic distance. Goldstein DR, et al. **Hum Hered** 1997 Mar–Apr;47(2):86–100

Intergenerational instability of the CAG repeat of the gene for Machado–Joseph disease (MJD1) is affected by the genotype of the normal chromosome: implications for the molecular mechanisms of the instability of the CAG repeat. Igarashi S, et al. **Hum Mol Genet** 1996 Jul;5(7):923–32

Hepatitis C virus 1b is the dominant genotype in HCV–related carcinogenesis: a case–control study. Hatzakis A, et al. **Int J Cancer** 1996 Sep 27;68(1):51–3

Genetic determinants of teratogen–induced abnormal development in mouse and rat embryos in vitro. Kapron CM, et al. **Int J Dev Biol** 1997 Apr;41(2):337–44 (54 ref.)

Apolipoprotein E genotypes and serum lipid levels in Alzheimer's disease and multi–infarct dementia. Wieringa GE, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):359–62

Lewis genotyping by the PCR–RFLP method in a Japanese population and its evaluation in forensic analysis. Ameno S, et al. **Int J Legal Med** 1997;110(4):232–4

Allele frequencies of nine STR systems in the Flemish population and application in parentage testing. Mertens G, et al. **Int J Legal Med** 1997;110(4):177–80

An improved method for MN genotyping by the polymerase chain reaction. Nakayashiki N, et al. **Int J Legal Med** 1996; 109(4):216–7

Non–syndromic dominant sensorineural hearing loss: from a few phenotypes to many genotypes. Stinckens C, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jan 3;38(3):237–45 (47 ref.)

Quantitative measures of hair cell loss in CBA and C57BL/6 mice throughout their life spans. Spongr VP, et al. **J Acoust Soc Am** 1997 Jun;101(6):3546–53

Host genotype controls the ability of the ISGF3 complex to activate transcription of IFN–inducible genes. Gariglio M, et al. **J Cell Biochem** 1996 Jan;60(1):83–94

The genetics of children's oral reading performance. Reynolds CA, et al. **J Child Psychol Psychiatry** 1996 May; 37(4):425–34

Twin children with unfamiliar partners: genotypic and gender influences on cooperation. Segal NL, et al. **J Child Psychol Psychiatry** 1996 Sep;37(6):731–5

Analysis of hepatitis C virus isolates by serotyping and genotyping. van Doorn LJ, et al. **J Clin Microbiol** 1996 Jul;34(7):1784–7

Effects of milk protein genotypes on the variation for milk production traits of Holstein and Jersey cows in California. Ojala M, et al. **J Dairy Sci** 1997 Aug;80(8):1776–85

Rapid and clear detection of ABO genotypes by simultaneous PCR–RFLP method. Tun Z, et al. **J Forensic Sci** 1996 Nov;41(6):1027–30

Evaluation and comparison of different hepatitis C virus genotyping and serotyping assays. Lee JH, et al. **J Hepatol** 1997 May;26(5):1001–9

Genotypes, nt 1858 variants, and geographic origin of hepatitis B virus--large–scale analysis using a new genotyping method. Lindh M, et al. **J Infect Dis** 1997 Jun; 175(6):1285–93

Characterization of a new genotype II hepatitis delta virus from Taiwan. Lee CM, et al. **J Med Virol** 1996 Jun; 49(2):145–54

HLA class I genotypes in Leber's hereditary optic neuropathy. Chalmers RM, et al. **J Neurol Sci** 1996 Feb; 135(2):173–5

Intestinal permeability in cystic fibrosis in relation to genotype. Hallberg K, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):290–5

Genetic and environmental architecture of human aggression. Miles DR, et al. **J Pers Soc Psychol** 1997 Jan;72(1):207–17

How many phenotypes from one genotype? The case of Prion diseases. Kacser H, et al. **J Theor Biol** 1996 Oct 7; 182(3):209–18

What exactly are genomes, genotypes and phenotypes? And what about phenomes? Mahner M, et al. **J Theor Biol** 1997 May 7;186(1):55–63

The genotypes of hepatitis C virus in patients with chronic hepatitis C virus infection in southern Taiwan. Yu ML, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Nov; 12(11):605–12

Genotype/phenotype correlations in Wilms' tumor. Huff V. **Med Pediatr Oncol** 1996 Nov;27(5):408–14

When a 'match' is not a genetic match [letter] Levine L, et al. **Med Sci Law** 1996 Oct;36(4):358

A PCR–based method for detecting rare genotypes in large samples of individuals. Walton C, et al. **Mol Ecol** 1997 Feb; 6(2):195–7

A 10–year follow–up--genotypic analysis disproves phenotypic classification [letter] Nutt JG, et al. **Mov Disord** 1997 May;12(3):472

The genotype of the human cancer cell: implications for risk analysis. Williams JR, et al. **Mutat Res** 1996 Sep; 365(1–3):17–42 (127 ref.)

Angiotensinogen–M235T genotype and post–transplant hypertension. Beige J, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1538–41

Genotypes and phenotypes [letter] Currier RD, et al. **Neurology** 1996 Aug;47(2):613–4

Automated DNA typing of ACTBP2: a comparison of allelic ladder with GS 2500 as internal marker. Harashima N, et al. **Nippon Hoigaku Zasshi** 1996 Feb;50(1):27–9

The allele frequency distribution at VNTR locus D17S5 (YNZ22) in a Japanese population sample. Harashima N, et al. **Nippon Hoigaku Zasshi** 1996 Aug;50(4):237–40

The familial incidence of symptoms of Scotopic Sensitivity/Irlen syndrome. Robinson GL, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):1043–55

Acute sensitivity vs. context–specific sensitization to cocaine as a function of genotype. Elmer GI, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):623–8

Odor of specific alcohol solutions selectively alters locomotor activity of alcohol–drinking P rats. Myers RD, et al. **Physiol Behav** 1997 Jan;61(1):71–5

Continuous intraoral saccharin infusions in high vs. low saccharin–consuming rats. Thiele TE, et al. **Physiol Behav** 1997 Jan;61(1):149–52

Behavioral differences between outbred Wistar, inbred Fischer 344, brown Norway, and hybrid Fischer 344 x brown Norway rats. van der Staay FJ, et al. **Physiol Behav** 1996 Jul;60(1):97–109

Rapid molecular determination of fetal rhesus E type. Geifman–Holtzman O, et al. **Prenat Diagn** 1996 Jun; 16(6):489–93

Comparison of the behavioural and endocrine response to forced swimming stress in five inbred strains of rats. Armario A, et al. **Psychoneuroendocrinology** 1995; 20(8):879–90

Suppression of lymphocyte mitogenesis in different rat strains exposed to footshock during early diurnal and nocturnal time periods. Kusnecov AW, et al. **Psychoneuroendocrinology** 1995;20(8):821–35

Behavioural and physiological consequences of a single social defeat in Roman high– and low–avoidance rats. Meerlo P, et al. **Psychoneuroendocrinology** 1997 Apr;22(3):155–68

Corticosteroids enhance convulsion susceptibility via central mineralocorticoid receptors. Roberts AJ, et al. **Psychoneuroendocrinology** 1995;20(8):891–902 (52 ref.)

Effect of a conditioned aversive stimulus on the immune response in three strains of rats. Shurin MR, et al. **Psychoneuroendocrinology** 1995;20(8):837–49

NIH, Hopkins team up on genotyping [news] Stone R. **Science** 1997 Jan 10;275(5297):153

Designing and analysing case–control studies to exploit independence of genotype and exposure. Umbach DM, et al. **Stat Med** 1997 Aug 15;16(15):1731–43

Gene–targeting studies of mammalian behavior: is it the mutation or the background genotype? [see comments] [published erratum appears in Trends Neurosci 1996 Jul;19(7):271] Gerlai R. **Trends Neurosci** 1996 May; 19(5):177–81. Comment in: Trends Neurosci 1996 Nov;19(11):470. Comment in: Trends Neurosci 1996 Nov;19(11):471–2.

Lipids, apolipoprotein–E genotypes and other risk factors of patients with coronary artery disease in Curaçao. Brouwer DA, et al. **West Indian Med J** 1997 Jun; 46(2):47–52

Phenotypic and genetic heterogeneity in Niemann–Pick disease type C: current knowledge and practical implications. Vanier MT. **Wien Klin Wochenschr** 1997 Feb 14;109(3):68–73 (56 ref.)

Recurrent hepatitis C virus infection after liver transplantation--long–term follow–up with respect to the HCV genotypes/subtypes. Arnold JC, et al. **Z Gastroenterol** 1997 Apr;35(4):255–61

[What significance to genotype changes have in diagnosis of malignant hyperthermia? (see comments)] Steinfath M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug;31(6):334–43 (96 ref.) (Eng. Abstr.). Comment in: Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Aug;31(6):331–3. **(Ger)**

[Reproducibility of aDNA typing] Schnerer WM, et al. **Anthropol Anz** 1997 Jun;55(2):199–206 (Eng. Abstr.) **(Ger)**

[Vitamin D receptor genotypes in patients with primary and secondary hyperparathyroidism] Kaun M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:773–5 (Eng. Abstr.) **(Ger)**

[Analysis of hepatitis C virus (HCV) genotypes in hepatocellular carcinoma] Shirakawa H. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):677–88 (Eng. Abstr.) **(Jpn)**

[Genetic and phenotypic polymorphisms in carcinogen–metabolizing enzymes and cancer susceptibility] Watanabe M. **Nippon Rinsho** 1996 Aug; 54(8):2261–75 (60 ref.) (Eng. Abstr.) **(Jpn)**

[Direct determination of ABO and cisAB blood group genotypes using polymerase chain reaction amplification of specific alleles (PASA)--method] Hosoi E. **Rinsho Byori** 1996 Aug;44(8):783–90 (Eng. Abstr.) **(Jpn)**

[Gene diffusion in hybrid populations of green frogs Rana esculenta L., 1758 complex (Amphibia, Ranidae) from the Dnepr Basin] Mezhzherin SV, et al. **Genetika** 1997 Mar; 33(3):358–64 (Eng. Abstr.) **(Rus)**

[Prevalence of the genotypes of the hepatitis C virus in Spanish drug addicts with chronic hepatitis C. Spanish Group for the Study of Viral Hepatitis in HIV Positive Patients] Bravo R, et al. **Rev Clin Esp** 1996 Oct; 196(10):673–7 (Eng. Abstr.) **(Spa)**

[Genes, heredity and illness. A critical review of the concepts of genotypes and phenotypes] López de Munain A, et al. **Rev Neurol** 1996 Mar;24(127):320–4 (11 ref.) **(Spa)**

GENTAMICINS

Incidence of high–level gentamicin resistance in enterococci at Johannesburg Hospital. Keddy KH, et al. **S Afr Med J** 1996 Oct;86(10):1273–6

Gentamicin resistance gene transfer from Enterococcus faecalis and E. faecium to Staphylococcus aureus, S. intermedius and S. hyicus. Noble WC, et al. **Vet Microbiol** 1996 Sep;52(1–2):143–52

ADMINISTRATION & DOSAGE

Persistent osteomyelitis of the femur--2 cases of exchange intramedullary nailing with gentamicin beads in the nail. Tandon SC, et al. **Acta Orthop Scand** 1996 Dec;67(6):620–2

Cellular mechanism of aminoglycoside tolerance in

long-term gentamicin treatment. Sundin DP, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1309-18

Inhaled gentamicin reduces airway neutrophil activity and mucus secretion in bronchiectasis. Lin HC, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2024-9

Single intravenous and multiple dose pharmacokinetics of gentamicin in healthy llamas. Lackey MN, et al. **Am J Vet Res** 1996 Aug;57(8):1193-9

Postoperative contamination after using vancomycin and gentamicin during phacoemulsification. Ferro JF, et al. **Arch Ophthalmol** 1997 Feb;115(2):165-70

Limitations in the 'area under the curve' method for predicting daily doses of gentamicin [letter] Millar JA. **Aust N Z J Med** 1996 Feb;26(1):116-8

Prevention of prosthetic valve endocarditis by impregnation of gentamicin into surgical pledgets. Khor E, et al. **Biomaterials** 1996 Aug;17(16):1631-7

Prospective, randomized, controlled study comparing two dosing regimens of gentamicin/oral ciprofloxacin switch therapy for acute pyelonephritis. Bailey RR, et al. **Clin Nephrol** 1996 Sep;46(3):183-6

Successful treatment of Aeromonas hydrophila peritoneal dialysis-associated peritonitis using intermittent intraperitoneal gentamicin. Eisele G, et al. **Clin Nephrol** 1995 Dec;44(6):402

Once-daily gentamicin: translating theory into practice. Cunningham R, et al. **Eur J Clin Pharmacol** 1996; 50(3):151-4 (28 ref.)

A comparison of intratracheal and intravenous administration of gentamicin during liquid ventilation. Zelinka MA, et al. **Eur J Pediatr** 1997 May;156(5):401-4

Prevention of wound infection in elective colorectal surgery by local application of a gentamicin-containing collagen sponge. Rutten HJ, et al. **Eur J Surg Suppl** 1997;(578):31-5

Local treatment of bone and soft tissue infections with the collagen-gentamicin sponge. Stemberger A, et al. **Eur J Surg Suppl** 1997;(578):17-26 (80 ref.)

Audit of once-daily dosing gentamicin therapy in neutropenic fever. Cooke RP, et al. **Int J Clin Pract** 1997 Jun;51(4):229-31

Blastomycosis-like pyoderma (Pyoderma vegetans) responding to antibiotics and topical disodium chromoglycate. Rongioletti F, et al. **Int J Dermatol** 1996 Nov;35(11):828-30

Antibiotic and cholestyramine treatment of chronic diarrhea in HIV-infected children [see comments] Fontana M, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):22-4. Comment in: Ital J Gastroenterol Hepatol 1997 Feb;29(1):10-2.

PMMA bead versus parenteral treatment of Staphylococcus aureus osteomyelitis [published erratum appears in J Am Podiatr Med Assoc 1997 May;87(5):208] Heard GS, et al. **J Am Podiatr Med Assoc** 1997 Apr;87(4):153-64

Influence of gentamicin dosing interval on the efficacy of penicillin-containing regimens in experimental Enterococcus faecalis endocarditis. Marangos MN, et al. **J Antimicrob Chemother** 1997 Apr;39(4):519-22

Antimicrobial practice. Development of guidelines for gentamicin dosing. Thomson AH, et al. **J Antimicrob Chemother** 1996 Nov;38(5):885-93

Tissue reactions to bacteria-inoculated rat lead samples. I. Effect of local gentamicin release through vicinal sponge or solution-dipping. van Wachem PB, et al. **J Biomed Mater Res** 1997 May;35(2):217-32

Tissue reactions to bacteria-inoculated rat lead samples. II. Effect of local gentamicin release through surface-modified polyurethane tubing. van Wachem PB, et al. **J Biomed Mater Res** 1997 May;35(2):233-47

Does once-daily dosing of aminoglycosides affect neuromuscular function? Wong J, et al. **J Clin Pharm Ther** 1996 Dec;21(6):407-11

Encapsulation of vancomycin and gentamicin within cationic liposomes for inhibition of growth of Staphylococcus epidermidis. Sanderson NM, et al. **J Drug Target** 1996; 4(3):181-9

Gentamicin distribution from a collagen carrier. Mehta S, et al. **J Orthop Res** 1996 Sep;14(5):749-54

Treatment of experimental osteomyelitis by surgical debridement and the implantation of bioerodable, polyanhydride-gentamicin beads. Nelson CL, et al. **J Orthop Res** 1997 Mar;15(2):249-55

Gentamicin-loaded hydraulic calcium phosphate bone cement as antibiotic delivery system. Bohner M, et al. **J Pharm Sci** 1997 May;86(5):565-72

Tissue concentration of clindamycin and gentamicin near ischaemic ulcers with transvenous injection in Bier's arterial arrest. Burgmann H, et al. **Lancet** 1996 Sep 21; 348(9030):781-3

Intraotic administration of gentamicin: a new method to study ototoxicity in the crista ampullaris of the bullfrog. Carranza A, et al. **Laryngoscope** 1997 Jan;107(1):137-43

Low-dose intratympanic gentamicin and the treatment of Meniere's disease: preliminary results. Driscoll CL, et al. **Laryngoscope** 1997 Jan;107(1):83-9

Sustained release of antibiotic from a fibrin-gelatin-antibiotic mixture. Park MS, et al. **Laryngoscope** 1997 Oct; 107(10):1378-81

Intratympanic gentamicin for treatment of intractable Meniere's disease: a preliminary report. Rauch SD, et al. **Laryngoscope** 1997 Jan;107(1):49-55

Intraperitoneal once-daily dose of cefazolin and gentamicin for treating CAPD peritonitis [see comments] Lai MN, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):87-9. Comment in: Perit Dial Int 1997 Jan-Feb;17(1):11-2.

Pharmacokinetics of once-daily IP gentamicin in CAPD patients [see comments] Low CL, et al. **Perit Dial Int** 1996 Jul-Aug;16(4):379-84. Comment in: Perit Dial Int 1996 Jul-Aug;16(4):345-6.

Optimal gentamicin therapy in preterm neonates includes loading doses and early monitoring. Isemann BT, et al. **Ther Drug Monit** 1996 Oct;18(5):549-55

[Increase of gentamicin uptake in cultured mouse peritoneal macrophage and rat hepatocytes when used in the form of nanoparticles] Zhang Q, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):375-80 (Eng. Abstr.) **(Chi)**

[Use of collagen and gentamycin in the treatment of chronic soft tissue lesions] Sváb J, et al. **Rozhl Chir** 1997 Feb; 76(2):66-7 (Eng. Abstr.) **(Cze)**

[Experience with daily single dose administration of gentamicin] Christensen SB, et al. **Ugeskr Laeger** 1997 May 19;159(21):3167-71 (Eng. Abstr.) **(Dan)**

[Gentacoll. A combined collagen-gentamicin preparation] Harving S, et al. **Ugeskr Laeger** 1997 Jul 7;159(28):4416-8 (7 ref.) **(Dan)**

[Can the rate of infection of problem wounds after anus praeter reconstruction be decreased by implantation of gentamycin containing collagen sponge?] Fischer A. **Zentralbl Chir** 1996;121 Suppl:75 **(Ger)**

[Modification of laparotomy wound healing in colon surgery by local antibiotic administration] Reith HB, et al. **Zentralbl Chir** 1996;121 Suppl:84-5 **(Ger)**

[Lymph dilution as a method of treatment in endotoxicosis] Iarema IV, et al. **Anesteziol Reanimatol** 1997 May-Jun; (3):57-9 (Eng. Abstr.) **(Rus)**

[Effectiveness of the treatment of staphylococcal pneumonia with liposomal gentamicin in an experiment] Perepelkin AI, et al. **Antibiot Khimioter** 1996;41(10):28-9 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Gentamicin-free bone cement does not alter proteinuria after hip arthroplasty [letter] Nergelius G, et al. **Acta Orthop Scand** 1997 Aug;68(4):410-1

Effect of gentamycin on the melanosomes in the stria vascularis of the pigmented guinea pig: an ultrastructural study. Yoshihara T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:25-9

Contact sensitivity to gentamicin with tolerance of systemic exposure. Muñoz Bellido FJ, et al. **Allergy** 1996 Oct; 51(10):758-9

Acute massive gentamicin intoxication in a patient with end-stage renal disease. Lu CM, et al. **Am J Kidney Dis** 1996 Nov;28(5):767-71

Topical gentamicin-induced hearing loss: a mitochondrial ribosomal RNA study of genetic susceptibility. Chen JM, et al. **Am J Otol** 1996 Nov;17(6):850-2

Acute renal failure potentiated by gentamicin and calcium [letter] Bolsin S, et al. **Anaesth Intensive Care** 1997 Aug; 25(4):431-2

Acute renal failure in cardiac surgical patients, potentiated by gentamicin and calcium. Schneider M, et al. **Anaesth Intensive Care** 1996 Dec;24(6):647-50

Assessment of the enzymuria resulting from gentamicin alone and combinations of gentamicin with various beta-lactam antibiotics. Nix DE, et al. **Ann Pharmacother** 1997 Jun; 31(6):696-703

Once-daily aminoglycoside therapy: potential ototoxicity [see comments] Singer C, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2209-11. Comment in: Antimicrob Agents Chemother 1997 Apr;41(4):879-80.

Comparison of distortion product OAE generation between a patient group requiring frequent gentamicin therapy and control subjects. Mulheran M, et al. **Br J Audiol** 1997 Feb; 31(1):5-9

Measurement of total phospholipids in urine of patients treated with gentamicin. Saunders DA, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):435-40

Neonatal orbital irritant contact dermatitis caused by gentamicin ointment. Merlob P, et al. **Cutis** 1996 Jun; 57(6):429-30

Generalized exanthematous pustulosis induced by medications. Sawhney RA, et al. **Int J Dermatol** 1996 Nov; 35(11):826-7

Gray-scale sonographic characterization of aminoglycoside-induced nephrotoxicosis in a canine model. Rivers BJ, et al. **Invest Radiol** 1996 Oct;31(10):639-51

Ototoxicity from ototopical aminoglycosides. Hui Y, et al. **J Otolaryngol** 1997 Feb;26(1):53-6

Ototoxicity resulting from combined administration of cisplatin and gentamicin [letter; comment] Kohn S, et al. **Laryngoscope** 1997 Mar;107(3):407-8. Comment on: Laryngoscope 1996 Apr;106(4):401-6.

Gentamicin retinal toxicity after cataract surgery in an eye that underwent vitrectomy. Rosenbaum JD, et al. **Ophthalmic Surg Lasers** 1997 Mar;28(3):236-8

Do aminoglycoside otic preparations cause ototoxicity in the presence of tympanic membrane perforations? Wong DL, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):404-10

Recording of brainstem evoked potentials and their association with gentamicin in neonates. Chayasirisobhon S, et al. **Pediatr Neurol** 1996 May;14(4):277-80

Endothelial injury of capillaries in the stria vascularis of guinea pigs treated with cisplatin and gentamicin. Kohn S, et al. **Ultrastruct Pathol** 1997 May-Jun;21(3):289-99

[Gentamycin as a cause of hearing impairment in children treated at the Phoniatric Outpatient Clinic in Zabrze between 1987-1992] Namysłowski G, et al. **Pediatr Pol** 1996 Feb;71(2):117-20 (Eng. Abstr.) **(Pol)**

ANALYSIS

Development of a high-performance liquid chromatographic assay for G418 sulfate (Geneticin). Bethune C, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):661-4

Does intraoperative blood loss affect antibiotic serum and tissue concentrations? Swoboda SM, et al. **Arch Surg** 1996 Nov;131(11):1165-71; discussion 1171-2

Determination of gentamicin in bovine milk using liquid chromatography with post-column derivatization and fluorescence detection. Kijak PJ, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):377-82

Sensitive fluorimetric determination of gentamicin sulfate in biological matrices using solid-phase extraction, pre-column derivatization with 9-fluorenylmethyl chloroformate and reversed-phase high-performance liquid chromatography. Stead DA, et al. **J Chromatogr B Biomed Appl** 1996 Jan 26;675(2):295-302

Analysis of gentamicin sulfate and a study of its degradation in dextrose solution. Graham AE, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):537-43

Comparison of a fluorescence polarization immunoassay of netilmicin in plasma, peritoneal dialysate, and urine with a high-performance liquid chromatographic method. Forest JM, et al. **Ther Drug Monit** 1997 Feb;19(1):74-8

ANTAGONISTS & INHIBITORS

Cytoprotective effect of ulinastatin on LLC-PK1 cells treated with antimycin A, gentamicin, and cisplatin. Ishibashi M, et al. **Nephron** 1997;76(3):300-6

[New immortalized cell lines from transgenic rat embryos. I. The isolation and characteristics of cell lines from rat embryos with an injected v-mos oncogene coupled with or without the gene for genecitin resistance] Pugovkina NA, et al. **Tsitologiia** 1996;38(4-5):530-41 (Eng. Abstr.) **(Rus)**

BLOOD

Standardized gentamicin dosing enhances peak serum concentrations. Chase H, et al. **Clin Invest Med** 1996 Feb; 19(1):36-45

Evaluation of Innofluor fluorescence polarization immunoassay kits for the determination of serum concentrations of gentamicin, tobramycin, amikacin and vancomycin.lesassays@ukneqasaa.win-uk.net. White LO, et al. **J Antimicrob Chemother** 1997 Mar;39(3):355-61

Fluorodensitometric evaluation of gentamicin from plasma and urine by high-performance thin-layer chromatography. Bhogte CP, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):443-7

Statistical approach to neural network model building for gentamicin peak predictions. Smith BP, et al. **J Pharm Sci** 1996 Jan;85(1):65-9

Aminoglycoside levels in critically ill surgical patients: the implications of physiologic criteria of sepsis. Cornwell EE 3rd, et al. **South Med J** 1997 Jan;90(1):33-6

Application of a neural network for gentamicin concentration prediction in a general hospital population. Corrigan BW, et al. **Ther Drug Monit** 1997 Feb;19(1):25-8

[Monitoring of gentamycin serum concentration in neonates. Usefulness in adjustment of dosage] García-Delgado R, et al. **An Esp Pediatr** 1997 Jan;46(1):47-52 (Eng. Abstr.) **(Spa)**

CHEMICAL SYNTHESIS

[Mechanical properties of new low viscosity bone cements--can be improved by vacuum mixing] Kaltenkirchen N, et al. **Unfallchirurg** 1996 Jul;99(7):492-7 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Stability and antimicrobial activity of gentamicin sulfate, tobramycin sulfate and amikacin sulfate in polypropylene syringes for use in once-daily aminoglycoside therapy. Mitrzyk B, et al. **Am J Health Syst Pharm** 1996 Dec 1; 53(23):2855-9

ECONOMICS

Pharmacoeconomics of aztreonam-clindamycin versus gentamicin-clindamycin in the treatment of penetrating abdominal injury. Fabian TC, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):951-7

Pharmacoeconomic impact of once-daily aminoglycoside administration. Hitt CM, et al. **Pharmacotherapy** 1997 Jul-Aug;17(4):810-4

ISOLATION & PURIFICATION

[Development of technology for isolation and purification of gentamicin using sorption without filtration] Mikhaiov VA, et al. **Antibiot Khimioter** 1996;41(10):19-21 (Eng. Abstr.) **(Rus)**

METABOLISM

A new immunohistochemical method for the detection of gentamicin in inner ear fluid compartments. Mihelic-Rapp M, et al. **Eur Arch Otorhinolaryngol** 1996;253(7):411-6

PHARMACOKINETICS

Gentamicin pharmacokinetics in Native Americans of Apache ancestry. Murphy JE, et al. **Am J Health Syst Pharm** 1996 Sep 15;53(18):2189-91

Aminoglycoside levels in the rabbit vitreous cavity after intravenous administration [see comments] el-Massry A, et al. **Am J Ophthalmol** 1996 Nov;122(5):684-9. Comment in: Am J Ophthalmol 1996 Nov;122(5):724-6.

Single intravenous and multiple dose pharmacokinetics of gentamicin in healthy llamas. Lackey MN, et al. **Am J Vet Res** 1996 Aug;57(8):1193-9

Pharmacokinetics of gentamicin at traditional versus high doses: implications for once-daily aminoglycoside dosing. Demczar DJ, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1115-9

Gentamicin concentrations in human subcutaneous tissue. Lorentzen H, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1785-9

Lack of effect of vancomycin and gentamicin on auditory function in guinea pigs. Nishihara K, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1098-103

Effect of polyaspartic acid on pharmacokinetics of gentamicin after single intravenous dose in the dog. Whittem T, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1237-41

Enhanced gentamicin clearance associated with ileostomy fluid loss [letter] Gaskin TL, et al. **Aust N Z J Med** 1997 Apr;27(2):196-7

Gentamicin pharmacokinetics in neonates with patent ductus arteriosus. Williams BS, et al. **Crit Care Med** 1997 Feb; 25(2):273-5

A relationship between serum gentamicin concentrations and minimal inhibitory concentration. Bezirtzoglou E, et al. **Drugs Exp Clin Res** 1996;22(2):57-60

Efficacy of iontophoresis in the rat cornea. Frucht-Pery J, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Dec; 234(12):765-9

Penetration of gentamicin and ofloxacin in human vitreous after systemic administration. Verbraeken H, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S59-65

Pharmacokinetics and bactericidal activity of a single daily dose of netilmicin in the treatment of CAPD-associated peritonitis. Anding K, et al. **Int J Clin Pharmacol Ther** 1996 Nov;34(11):465-9

Wide variation in single, daily-dose aminoglycoside pharmacokinetics in patients with burn injuries. Hoey LL, et al. **J Burn Care Rehabil** 1997 Mar-Apr;18(2):116-24

Half-life of intracameral gentamicin after phacoemulsification. Lehmann OJ, et al. **J Cataract Refract Surg** 1997 Jul-Aug;23(6):883-8

Pharmacokinetics of once-daily dosing of gentamicin in neonates. Hayani KC, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):76-80

Estimation of population pharmacokinetics using the Gibbs sampler. Best NG, et al. **J Pharmacokinet Biopharm** 1995 Aug;23(4):407-35

Pharmacokinetics of gentamicin in llamas. Dowling PM, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):161-3

Pharmacokinetics of gentamicin in donkeys. Welfare RE, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):167-9

Pharmacokinetic interactions between repeated dose phenylbutazone and gentamicin in the horse. Whittem T, et al. **J Vet Pharmacol Ther** 1996 Dec;19(6):454-9

Tissue concentration of clindamycin and gentamicin near ischaemic ulcers with transvenous injection in Bier's arterial arrest. Burgmann H, et al. **Lancet** 1996 Sep 21; 348(9030):781-3

Effect of endotoxin on gentamicin pharmacokinetics in old and young adult rats. Tanira MO, et al. **Life Sci** 1997; 60(6):413-24

Absorption of topically administered ciprofloxacin, ofloxacin and gentamicin in the inflamed rabbit eye. Behrens-Baumann W. **Ophthalmologica** 1996;210(2):119-22

Pharmacokinetics of once-daily IP gentamicin in CAPD patients [see comments] Low CL, et al. **Perit Dial Int** 1996 Jul-Aug;16(4):379-84. Comment in: Perit Dial Int 1996 Jul-Aug;16(4):345-6.

Intravenous gentamicin and ceftazidime in penetrating ocular trauma: a swine model. Schech JM, et al. **Retina** 1997; 17(1):28-32

Optimal gentamicin therapy in preterm neonates includes loading doses and early monitoring. Isemann BT, et al. **Ther Drug Monit** 1996 Oct;18(5):549-55

Systemic absorption of gentamicin in penile prosthesis operations. Ulker V, et al. **Urol Int** 1996;57(4):218-20

[Individualized monitoring of the therapy with gentamycin using pharmacokinetic methods. Which method to choose?] Carvalho A, et al. **Acta Med Port** 1996 Jul-Sep; 9(7-9):187-95 (Eng. Abstr.) **(Por)**

PHARMACOLOGY

The effect of gentamicin on cytoskeletons in the vestibular sensory cells: a high-resolution scanning electron microscopic investigation. Takumida M, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):817-23

Topical gentamicin-induced hearing loss: a mitochondrial ribosomal RNA study of genetic susceptibility. Chen JM, et al. **Am J Otol** 1996 Nov;17(6):850-2

Gentamicin inhibits rat renal cortical homotypic endosomal fusion: role of megalin. Hammond TG, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):F117-23

Involvement of phospholipase A2 in gentamicin-induced rat mesangial cell activation. Martínez-Salgado C, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F60-6

Gentamicin inhibits carrier-mediated dipeptide transport in kidney. Skopicki HA, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F531-8

Pharmacokinetics, effects on renal function, and potentiation of atracurium-induced neuromuscular blockade after administration of a high dose of gentamicin in isoflurane-anesthetized dogs. Martinez EA, et al. **Am J Vet Res** 1996 Nov;57(11):1623-6

Effect of bovine serum, hyaluronic acid and netilmicine on the in vitro adhesion of bacteria isolated from human-worn disposable soft contact lenses. Pustorino R, et al. **Ann Ig** 1996 Jul-Aug;8(4):469-75

A novel gentamicin resistance gene in Enterococcus. Chow JW, et al. **Antimicrob Agents Chemother** 1997 Mar; 41(3):511-4

Treatment of experimental endocarditis due to ampicillin-susceptible or ampicillin-resistant Salmonella enteritidis. Fernández Guerrero ML, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1589-93

Chromosomal gentamicin resistance transposon Tn3706 in Streptococcus agalactiae B128. Horaud T, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1085-90

In vitro characterization of aminoglycoside adaptive resistance in Pseudomonas aeruginosa. Karlowsky JA, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1387-93

Vancomycin-gentamicin synergism revisited: effect of gentamicin susceptibility of methicillin-resistant Staphylococcus aureus. Mulazimoglu L, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1534-5

High-level plasmid-mediated gentamicin resistance and pheromone response of plasmids present in clinical isolates of Enterococcus faecalis. Shiojima M, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):702-5

Plasmid-borne high-level resistance to gentamicin in Enterococcus hirae, Enterococcus avium, and Enterococcus raffinosus. Straut M, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1263-5

Combination of flucloxacillin and gentamicin inhibits toxic shock syndrome toxin 1 production by Staphylococcus aureus in both logarithmic and stationary phases of growth. van Langevelde P, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1682-5

Comparison of postantibiotic effects of imipenem and netilmicin alone and in combination against Pseudomonas aeruginosa. Hoštacká A. **Arzneimittelforschung** 1997 Aug; 47(8):965-7

Clonal variability in beta-globin mRNA content in an interleukin-3-dependent bone marrow cell line transfected with the erythropoietin receptor before and after stimulation with erythropoietin. Ishiguro K, et al. **Blood** 1997 Sep 15;90(6):2273-81

Protective effect of human ulinastatin against gentamicin-induced acute renal failure in rats. Nakakuki M, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):104-11

Stimulated secretion of lysosomal enzymes induced by drugs in transimmortalized proximal tubule mouse kidney cells. Vandewalle A. **Cell Biol Toxicol** 1996 Dec;12(4-6):299-303

The in vitro synergistic inhibitory effect of human amniotic fluid and gentamicin on growth of Escherichia coli. Miglioli PA, et al. **Chemotherapy** 1996 May-Jun; 42(3):206-9

Protective effect of liposomal gentamicin against systemic acute murine brucellosis. Vitas AI, et al. **Chemotherapy** 1997 May-Jun;43(3):204-10

Rapid assessment of ceftazidime, ciprofloxacin, and gentamicin susceptibility in exponentially-growing E. coli cells by means of flow cytometry. Walberg M, et al. **Cytometry** 1997 Feb 1;27(2):169-78

Interaction of the macrolide azithromycin with phospholipids. I. Inhibition of lysosomal phospholipase A1 activity. Van Bambeke F, et al. **Eur J Pharmacol** 1996 Oct 24;314(1-2):203-14

The efferent-mediated suppression of otoacoustic emissions in awake guinea pigs and its reversible blockage by gentamicin. Avan P, et al. **Exp Brain Res** 1996 Apr; 109(1):9-16

Gentamicin treatment increases mesangial cell nitric oxide production. Rivas-Cabañero L, et al. **Exp Nephrol** 1997 Jan-Feb;5(1):23-30

Addition of G418 and other aminoglycoside antibiotics to mammalian cells results in the release of GPI-anchored proteins. Küng M, et al. **FEBS Lett** 1997 Jun 16; 409(3):333-8

Acridine orange as an indicator of bacterial susceptibility to gentamicin. Mason DJ, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):199-204

Pharmacodynamic parameters of aminoglycosides and their effect on exoenzymes of Pseudomonas aeruginosa. Hoštacká A. **Folia Microbiol (Praha)** 1996;41(2):149-53

Postantibiotic effects of subinhibitory concentrations of some antibiotics and their influence on Pseudomonas aeruginosa enzymic activity. Hoštacká A. **Folia Microbiol (Praha)** 1996;41(1):39-42

A simple and rapid method for the determination of recombinant retrovirus titer by G418 selection. Byun J, et al. **Gene Ther** 1996 Nov;3(11):1018-20

Postantibiotic effect of ceftriaxone and gentamicin alone and in combination on Klebsiella pneumoniae, Pseudomonas aeruginosa and Streptococcus viridans. Buxbaum A, et al. **Infection** 1996 Nov-Dec;24(6):459-64

Interpretive criteria for susceptibility testing of coagulase-negative staphylococci with special reference to netilmicin. Neumeister B, et al. **Infection** 1997 May-Jun; 25(3):175-7

The effect of aminoglycoside-induced adaptive resistance on the antibacterial activity of other antibiotics against Pseudomonas aeruginosa in vitro. Barclay ML, et al. **J Antimicrob Chemother** 1996 Nov;38(5):853-8

A new time-kill method of assessing the relative efficacy of antimicrobial agents alone and in combination developed using a representative beta-lactam, aminoglycoside and fluoroquinolone. MacGowan AP, et al. **J Antimicrob Chemother** 1996 Aug;38(2):193-203

Molecular typing of Enterococcus faecalis strains resistant to high levels of gentamicin and isolated in Romania. Straut M, et al. **J Antimicrob Chemother** 1997 Apr;39(4):483-9

In vitro response of Escherichia coli to antibiotics and ultrasound at various insonation intensities. Williams RG, et al. **J Biomater Appl** 1997 Jul;12(1):20-30

A new anti-infective collagen dressing containing antibiotics. Grzybowski J, et al. **J Biomed Mater Res** 1997 Aug; 36(2):163-6

Gene transfer, gentamicin resistance and enterococci. Simjee S, et al. **J Hosp Infect** 1997 Aug;36(4):249-59 (36 ref.)

Effect of time and temperature on inactivation of aminoglycosides by ampicillin at neonatal dosages. Daly JS, et al. **J Perinatol** 1997 Jan-Feb;17(1):42-5

Studies on the distribution of high-level gentamicin-resistant Enterococcus faecalis using ribotyping and restriction analysis of the 16S-23S rRNA intergenic spacer sequences. Ingianni A, et al. **Microb Drug Resist** 1997 Fall;3(3):271-5

Characterization of HEp-2 cell projection formation induced by diffusely adherent Escherichia coli. Cookson ST, et al. **Microb Pathog** 1996 Dec;21(6):421-34

Isolation and characterization of a strong promoter element from the Streptomyces ghanaensis phage I19 using the gentamicin resistance gene (aacC1) of Tn 1696 as reporter. Labes G, et al. **Microbiology** 1997 May;143 (Pt 5):1503-12

Stable coexpression of a drug-resistance gene and a heterologous gene in an ancient parasitic protozoan Giardia lamblia. Yu DC, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):81-91

In vitro activity of netilmicin against clinical isolates of methicillin resistant and susceptible Staphylococcus aureus. Manoharan A, et al. **Natl Med J India** 1997 Mar-Apr; 10(2):61-2

Prenatal lesioning of vestibular organ by aminoglycosides. Deguine O, et al. **Neuroreport** 1996 Nov 4;7(15-17):2435-8

Effective elimination of fibroblasts in cultures of melanocytes by lowering calcium concentration in TPA depleted medium following geneticin treatment. Horikawa T, et al. **Pigment Cell Res** 1996 Apr;9(2):58-62

Selection of subpopulations resistnat to amikacin and netilmicin of gentamicin-resistant clinical strains of Staphylococcus aureus and Staphylococcus epidermidis. Torres García M, et al. **Zentralbl Bakteriol** 1996 Jun; 284(1):58-66

[Tricalcium phosphate and gentamycin. In vitro and in vivo antibiotic diffusion, rehabilitation in bone site in sheep] Prat-Poiret N, et al. **Chirurgie** 1996;121(4):298-308 (36 ref.) (Eng. Abstr.) **(Fre)**

[Bactericidal activity of quinolones (including sparfloxacin) against Enterococcus; in vitro antagonisms with gentamicin] Watine J, et al. **Pathol Biol (Paris)** 1997 May; 45(5):430-2 (Eng. Abstr.) **(Fre)**

[Gentamicin-induced alteration in drug susceptibility and lipopolysaccharide-composition of Pseudomonas aeruginosa isolates] Hasegawa M, et al. **Kansenshogaku Zasshi** 1997 Mar;71(3):199-206 (Eng. Abstr.) **(Jpn)**

POISONING

Hair cell differentiation in chick cochlear epithelium after aminoglycoside toxicity: in vivo and in vitro observations. Stone JS, et al. **J Neurosci** 1996 Oct 1;16(19):6157-74

THERAPEUTIC USE

Intramedullary, antibiotic-loaded cemented, massive allografts for skeletal reconstruction. 26 cases compared with 19 uncemented allografts. Ozaki T, et al. **Acta Orthop Scand** 1997 Aug;68(4):387-91

When and how to use gentamicin in the treatment of Menière's disease. Odkvist LM, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;526:54-7

Intratympanic gentamicin therapy for Ménière's disease. Hirsch BE, et al. **Am J Otol** 1997 Jan;18(1):44-51

Intratympanic gentamicin in Ménière's disease: results of therapy. Murofushi T, et al. **Am J Otol** 1997 Jan;18(1):52-7

Bacterial killing by use of once daily gentamicin dosage in guinea pigs with Escherichia coli infection. Campbell BG, et al. **Am J Vet Res** 1996 Nov;57(11):1627-30

Effectiveness of cloxacillin with and without gentamicin in short-term therapy for right-sided Staphylococcus aureus endocarditis. A randomized, controlled trial. Ribera E, et

al. **Ann Intern Med** 1996 Dec 15;125(12):969–74

Once-daily gentamicin therapy for experimental Escherichia coli meningitis. Ahmed A, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):49–53

Antibiotic-impregnated heart valve sewing rings for treatment and prophylaxis of bacterial endocarditis. Cimbollek M, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1432–7

Treatment of experimental endocarditis due to Enterococcus faecalis using once-daily dosing regimen of gentamicin plus simulated profiles of ampicillin in human serum. Gavaldà J, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):173–8

Treatment of human brucellosis with doxycycline and gentamicin [see comments] Solera J, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):80–4. Comment in: Antimicrob Agents Chemother 1997 Jul;41(7):1621–2.

Open randomized study of cefepime versus piperacillin-gentamicin for treatment of febrile neutropenic cancer patients. Yamamura D, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1704–8

Comparison of the bactericidal action of amikacin, netilmicin and tobramycin in free and liposomal formulation against Pseudomonas aeruginosa. Omri A, et al. **Chemotherapy** 1996 May-Jun;42(3):170–6

A multicenter study comparing intravenous meropenem with clindamycin plus gentamicin for the treatment of acute gynecologic and obstetric pelvic infections in hospitalized women. Hemsell DL, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S222–30

Failure to clear a Roseomonas line infection with antibiotic therapy. Richardson JD. **Clin Infect Dis** 1997 Jul;25(1):155

One bolus dose of gentamicin and early oral therapy versus cefotaxime and subsequent oral therapy in the treatment of febrile urinary tract infection. Sundman K, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):455–8

A comparison of two ophthalmic steroid-antibiotic combinations after cataract surgery. van Endt JJ, et al. **Eur J Ophthalmol** 1997 Apr-Jun;7(2):144–8

Temperature-dependent resistance to gentamicin in graft keratitis by stenotrophomonas (Xanthamonas) maltophilia [letter] Richardson PR, et al. **Eye** 1997;11 (Pt 1):124–6

Comparison of three prophylactic antibiotic regimens in clean-contaminated head and neck surgery. Rodrigo JP, et al. **Head Neck** 1997 May;19(3):188–93

Pharmacokinetics and bactericidal activity of a single daily dose of netilmicin in the treatment of CAPD-associated peritonitis. Anding K, et al. **Int J Clin Pharmacol Ther** 1996 Nov;34(11):465–9

Antibiotic prophylaxis in prosthetic penile surgery: critical assessment of results in 75 consecutive patients. Maffezzini M, et al. **Int J Impot Res** 1996 Jun;8(2):87–9

Aseptic loosening of BonelocR cemented hip prostheses. Wedderkopp N, et al. **Int Orthop** 1997;21(2):87–90

Tissue reactions to bacteria-inoculated rat lead samples. II. Effect of local gentamicin release through surface-modified polyurethane tubing. van Wachem PB, et al. **J Biomed Mater Res** 1997 May;35(2):233–47

Tissue reactions to bacteria-inoculated rat lead samples. I. Effect of local gentamicin release through vicinal sponge or solution-dipping. van Wachem PB, et al. **J Biomed Mater Res** 1997 May;35(2):217–32

Efficacy and safety of combined diclofenac 0.1% and gentamicin 0.3% eyedrops after phacoemulsification. Rossetti L, et al. **J Cataract Refract Surg** 1997 Jun; 23(5):745–9

Aminoglycoside prescription, therapeutic monitoring and nephrotoxicity at a university hospital in Saudi Arabia. Eltahawy AT, et al. **J Chemother** 1996 Aug;8(4):278–83

Therapeutic drug monitoring of gentamicin: a 6-year follow-up audit. Ismail R, et al. **J Clin Pharm Ther** 1997 Feb;22(1):21–5

Ampicillin/sulbactam vs. clindamycin/gentamicin in the treatment of postpartum endometritis. Gall S, et al. **J Reprod Med** 1996 Aug;41(8):575–80

Management of large infected tibial defects with antibiotic beads local therapy and staged fibular osteoseptocutaneous free transfer. Ueng SW, et al. **J Trauma** 1997 Aug; 43(2):268–74

Systemic absorption of gentamicin following intramammary administration to cows with mastitis [correction of mastititis]. Sweeney RW, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):155–7

Typhoid perforation treated with and without metronidazole along with chloramphenicol, gentamycin. Javaid K, et al. **JPMA J Pak Med Assoc** 1996 Mar;46(3):49–50

A prospective randomized study of medications after silicone intubation. Liu D. **Ophthalmic Surg Lasers** 1996 Jun; 27(6):434–7

Gentamicin treatment in peripheral vestibular disorders other than Ménière's disease. Brantberg K, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Sep-Oct; 58(5):277–9

Pharmacoeconomics of aztreonam-clindamycin versus gentamicin-clindamycin in the treatment of penetrating abdominal injury. Fabian TC, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):951–7

Bacterial translocation is enhanced in pig intestinal transplantation when the colon is included in the graft. Spada M, et al. **Transplant Proc** 1996 Oct;28(5):2658–9

A survey of horses with acute diarrhoea: diagnosis, assessment of the prognosis, and comparison of two antibiotic therapies. van Duijkeren E, et al. **Vet Q** 1996 Dec;18(4):153–6

[Efficacy and tolerability of a combination of indomethacin and gentamicin for preventing inflammation after cataract surgery] Renard G, et al. **J Fr Ophtalmol** 1996; 19(11):689–95 (Eng. Abstr.) **(Fre)**

[Treatment of purulent postoperative wounds with collagen and immobilised gentamycin] Khanin AG, et al. **Khirurgiia (Mosk)** 1997;(6):44–6 (Eng. Abstr.) **(Rus)**

[Ligenten treatment of sinusitis] Poliakova TS, et al. **Vestn Otorinolaringol** 1997;(2):38–40 (Eng. Abstr.) **(Rus)**

[Prospective double-blind randomized study of the efficacy and tolerance of topical ciprofloxacin vs topical gentamicin in the treatment of simple chronic otitis media and diffuse external otitis] Sabater F, et al. **Acta Otorrinolaringol Esp** 1996 May-Jun;47(3):217–20 (Eng. Abstr.) **(Spa)**

[Effectiveness of medical treatment of endocarditis due to Candida in premature newborns] García Cantó E, et al. **An Esp Pediatr** 1997 Mar;46(3):277–9 **(Spa)**

[Monitoring of gentamycin serum concentration in neonates. Usefulness in adjustment of dosage] García-Delgado R, et al. **An Esp Pediatr** 1997 Jan;46(1):47–52 (Eng. Abstr.) **(Spa)**

[Comparison of the therapeutic efficacy of the piperacillin/tazobactame combination vs. ampicillin and gentamycin in the management of post-cesarean endometritis] Figueroa-Damian R, et al. **Ginecol Obstet Mex** 1996 May;64:214–8 (Eng. Abstr.) **(Spa)**

TOXICITY

Studies of renal injury. I. Gentamicin toxicity and expression of basolateral transporters. Dominguez JH, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F245–53

Attenuation of gentamicin-induced nephrotoxicity in rats by fleroxacin. Beauchamp D, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1237–45

Effects of fasting on temporal variations in nephrotoxicity of gentamicin in rats. Beauchamp D, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):670–6

Time-restricted feeding schedules modify temporal variation of gentamicin experimental nephrotoxicity. Beauchamp D, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1468–74

Kidney and urine enzyme activity in experimental gentamicin nephrotoxicity in the Sprague-Dawley rat. Brown D, et al. **Biochem Soc Trans** 1996 May;24(2):317S

Gentamicin ototoxicity induced apoptosis of the vestibular hair cells of guinea pigs. Nakagawa T, et al. **Eur Arch Otorhinolaryngol** 1997;254(1):9–14

Involvement of platelet-activating factor in gentamicin nephrotoxicity in rats. Rodriguez-Barbero A, et al. **Exp Nephrol** 1997 Jan-Feb;5(1):47–54

Secretion of a new basal layer of tectorial membrane following gentamicin-induced hair cell loss. Epstein JE, et al. **Hear Res** 1995 Oct;90(1-2):31–43

Reactive oxygen species in chick hair cells after gentamicin exposure in vitro. Hirose K, et al. **Hear Res** 1997 Feb; 104(1-2):1–14

Gentamicin distribution in the basilar papilla: possible association with regenerated hair cell orientation. Komeda M, et al. **Hear Res** 1996 Dec 1;102(1-2):81–9

Variable efficacy of radical scavengers and iron chelators to attenuate gentamicin ototoxicity in guinea pig in vivo. Song BB, et al. **Hear Res** 1996 May;94(1-2):87–93

Quantification of the process of hair cell loss and recovery in the chinchilla crista ampullaris after gentamicin treatment. Lopez I, et al. **Int J Dev Neurosci** 1997 Jul; 15(4-5):447–61

Evaluation of gentamicin-induced nephrotoxicosis in toadfish. Reimschuessel R, et al. **J Am Vet Med Assoc** 1996 Jul 1;209(1):137–9

Protection from gentamicin ototoxicity by iron chelators in guinea pig in vivo. Song BB, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):369–77

Synergestic effects of noise and aminoglycoside antibiotic (gentamicin) on auditory function in the gerbil. Chen TJ, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jul; 13(7):407–16

Nephrotoxicity of gentamicin and vancomycin given alone and in combination as determined by enzymuria and cortical antibiotic levels in rats. Fauconneau B, et al. **Ren Fail** 1997 Jan;19(1):15–22

The relationship between enzymuria and kidney enzyme activities in experimental gentamicin nephrotoxicity. Whiting PH, et al. **Ren Fail** 1996 Nov;18(6):899–909

Gentamicin-induced nephrotoxicosis in lambs. Fadel AA, et al. **Res Vet Sci** 1996 Nov;61(3):187–92

URINE

Fluorodensitometric evaluation of gentamicin from plasma and urine by high-performance thin-layer chromatography. Bhogte CP, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):443–7

GENTAMYCIN see **GENTAMICINS**

GENTIAN see **PLANTS, MEDICINAL**

GENTIAN VIOLET

Crystal violet staining of Bordetella bronchiseptica colonies for differentiation of phase-I strains from variant strains in degraded phases. Ishikawa H, et al. **Can J Vet Res** 1997 Jul;61(3):232–4

Use of leuco crystal violet to enhance shoe prints in blood. Bodziak WJ. **Forensic Sci Int** 1996 Sep 15;82(1):45–52

Selective spectrophotometric method for the determination of erythromycin and its esters in pharmaceutical formulations using gentiana violet. Amin AS, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1625–9

The response of selected members of the archaea to the gram stain. Beveridge TJ, et al. **Microbiology** 1996 Oct;142 (Pt 10):2887–95

ADVERSE EFFECTS

Chondrolysis of the shoulder following a "color test"-assisted rotator cuff repair--a report of 2 cases. Tamai K, et al. **Acta Orthop Scand** 1997 Aug;68(4):401–2

Allergic contact dermatitis from pyoctanin. Schoppelrey HP, et al. **Contact Dermatitis** 1997 Apr;36(4):221–4

ANALYSIS

Determination of leucogentian violet and gentian violet in catfish tissue by high-performance liquid chromatography with visible detection. Rushing LG, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):125–31

Simultaneous determination of malachite green, gentian violet and their leuco metabolites in catfish or trout tissue by high-performance liquid chromatography with visible detection. Rushing LG, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):325–30

Confirmation of gentian violet and its metabolite leucogentian violet in catfish muscle using liquid chromatography combined with atmospheric pressure ionization mass spectrometry. Doerge DR, et al. **Rapid Commun Mass Spectrom** 1996;10(12):1479–84

CHEMISTRY

A new and improved "quick-hot Gram-chromotrope" technique that differentially stains microsporidian spores in clinical samples, including paraffin-embedded tissue sections. Moura H, et al. **Arch Pathol Lab Med** 1997 Aug; 121(8):888–93

The Gram stain after more than a century. Popescu A, et al. **Biotech Histochem** 1996 May;71(3):145–51 (60 ref.)

DIAGNOSTIC USE

Fluorescent Gram stain in the microbiologic diagnosis of infectious keratitis and endophthalmitis. Roychoudhury B, et al. **Curr Eye Res** 1997 Jun;16(6):620–3

Gram stain detection of infection during revision arthroplasty. Chimento GF, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):838–9

The diagnostic value of Gram stain for initial identification of the etiologic agent of peritonitis in CAPD patients. Bezerra DA, et al. **Perit Dial Int** 1997 May-Jun; 17(3):269–72

PHARMACOLOGY

A combined assay of cell viability and in vitro cytotoxicity with a highly water-soluble tetrazolium salt, neutral red and crystal violet. Ishiyama M, et al. **Biol Pharm Bull** 1996 Nov;19(11):1518–20

GEOGRAPHIC TONGUE see **GLOSSITIS, BENIGN MIGRATORY**

GEOGRAPHY

see related
MAPS
TOPOGRAPHY, MEDICAL

Declining effect of latitude on melanoma mortality rates in the United States. A preliminary study. Lee JA. **Am J Epidemiol** 1997 Sep 1;146(5):413–7

Assessment of a remote sensing-based model for predicting malaria transmission risk in villages of Chiapas, Mexico. Beck LR, et al. **Am J Trop Med Hyg** 1997 Jan;56(1):99–106

The Dynamic Aviation Data System (DADS). Soman S, et al. **Aviat Space Environ Med** 1997 Aug;68(8):736–9

Mapping the environment. Betts KS. **Environ Health Perspect** 1997 Jun;105(6):594–6

Geographic information systems: their use in environmental epidemiologic research. Vine MF, et al. **Environ Health Perspect** 1997 Jun;105(6):598–605

Do island populations have less genetic variation than mainland populations? Frankham R. **Heredity** 1997 Mar;78 (Pt 3):311–27

Ultraviolet light may contribute to geographic and racial blood pressure differences. Rostand SG. **Hypertension** 1997 Aug;30(2 Pt 1):150–6 (110 ref.)

Melatonin as a hormone and an antioxidant: implications for organisms at high latitudes. Reiter RJ, et al. **Int J Circumpolar Health** 1997 Apr;56(1-2):4–11 (43 ref.)

Geographic information systems for animal health management and disease control. McGinn TJ 3rd, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1917–21

The use of mapping in public health and planning health

services. Gordon A, et al. **J Public Health Med** 1997 Jun; 19(2):139–47 (8 ref.)
Tracing patients in rural Africa [letter; comment] Karas JA. **Lancet** 1996 Dec 7;348(9041):1598. Comment on: Lancet 1996 Oct 19;348(9034):1083–4.
From enumeration districts to output areas: experiments in the automated creation of a census output geography] Martin D. **Popul Trends** 1997 Summer;(88):36–42
Geographical information systems and tropical diseases. Openshaw S. **Trans R Soc Trop Med Hyg** 1996 Jul–Aug; 90(4):337–9 (14 ref.)
[Medical expenditure for the elderly and factors related to its geographical variations within Fukuoka Prefecture] Une H. **Nippon Koshu Eisei Zasshi** 1996 Jan;43(1):28–36 (Eng. Abstr.) **(Jpn)**
[Specific features of tuberculosis in the similar biogeochemical subareas of the biosphere in the Chuvash and Sakha (Iakutia) republics] Akuginova ZD, et al. **Probl Tuberk** 1997;(2):24–6 (Eng. Abstr.) **(Rus)**

EDUCATION

Where in the world am I? Sex and handedness differences in knowledge of geography. Snyder PJ, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 2):1379–85

HISTORY

Humboldtian medicine. Rupke NA. **Med Hist** 1996 Jul; 40(3):293–310

METHODS

Remote sensing and disease control: past, present and future. Hay SI. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr; 91(2):105–6

STATISTICS & NUMERICAL DATA

The application of GIS in environmental health sciences: opportunities and limitations. Tim US. **Environ Res** 1995 Nov;71(2):75–88 (57 ref.)

TRENDS

[New problems of military medical geography] Keller AA, et al. **Voen Med Zh** 1997 Apr;318(4):14–8, 80 (Eng. Abstr.) **(Rus)**

GEOGRAPHY, MEDICAL see **GEOGRAPHY**

GEOLOGIC SEDIMENTS

Crenarchaeota in Lake Michigan sediment. MacGregor BJ, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1178–81
Assessment of sediment toxicity using different trophic organisms. Cheung YH, et al. **Arch Environ Contam Toxicol** 1997 Apr;32(3):260–7
Concentration, distribution, and comparison of selected trace elements in bed sediment and fish tissue in the South Platte River Basin, USA, 1992–1993. Heiny JS, et al. **Arch Environ Contam Toxicol** 1997 Apr;32(3):246–59
Toxicity of stormwater treatment pond sediments to Hyalella azteca (Amphipoda). Karouna-Renier NK, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):550–7
Exploration strategies for hydrothermal deposits. Horn RA. **Ciba Found Symp** 1996;202:236–46; discussion 246–8 (30 ref.)
Radioactivity in sediments of the Karnaphuli river estuary and the Bay of Bengal. Alam MN, et al. **Health Phys** 1997 Aug;73(2):385–7
Sorption/desorption of radioactive contaminants by sediment from the Kara Sea. Fuhrmann M, et al. **Sci Total Environ** 1997 Aug 25;202(1–3):5–24
Life goes to extremes in the deep earth—and elsewhere? [news] Kerr RA. **Science** 1997 May 2;276(5313):703–4
In industry, extremophiles begin to make their mark [news] Pennisi E. **Science** 1997 May 2;276(5313):705–6

ANALYSIS

Fate and effects of soluble or sediment-bound arsenic in oysters (Crassostrea gigas Thun.). Ettajani H, et al. **Arch Environ Contam Toxicol** 1996 Jul;31(1):38–46
Wood preservative leachates from docks in an estuarine environment. Wendt PH, et al. **Arch Environ Contam Toxicol** 1996 Jul;31(1):24–37
Organochlorines and polycyclic aromatic hydrocarbons in the sediments of Ganges River (India). Ahmad S, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):794–802
Heavy metals and organic hydrocarbons in sediments from the Waikareao Estuary, Tauranga Harbour, New Zealand. Burggraaf S, et al. **Bull Environ Contam Toxicol** 1997 Jun; 58(6):871–8
Cadmium distribution in sediment and the lugworm Arenicola marina in a low concentration exposure experiment. Everaarts JM, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):771–8
Screening of volatile organic compounds in river sediment. Kawata K, et al. **Bull Environ Contam Toxicol** 1997 Jun; 58(6):893–900
Irgarol 1051, an antifouling compound in freshwater, sediment, and biota of Lake Geneva. Tóth S, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):426–33
Pulp mill sourced organic compounds and sodium levels in water and sediments from the Tarawera River, New Zealand. Wilkins AL, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):434–41
Use of thin-layer and high-performance liquid chromatography for the study of the adsorption of surfactants on a river sediment. Cserháti T, et al. **J Biochem Biophys Methods** 1996 Nov 15;33(2):81–8
Sedimentation rates measurements in former channels of the upper Rhône river using Chernobyl 137Cs and 134Cs as tracers. Rostan JC, et al. **Sci Total Environ** 1997 Jan 30; 193(3):251–62
[Determination of total mercury in water samples, sediments and solids in suspension in aquatic systems by cold-vapor atomic absorption spectrophotometry] Vieira JL, et al. **Rev Saude Publica** 1996 Jun;30(3):256–60 (Eng. Abstr.) **(Por)**

CHEMISTRY

Influence of storage on sediment characteristics and of drying sediment on sorption coefficients of organic contaminants. Sijm RT, et al. **Bull Environ Contam Toxicol** 1997 Jun; 58(6):961–8
The role of remote sensing in finding hydrothermal mineral deposits on earth. Huntington JF. **Ciba Found Symp** 1996; 202:214–31; discussion 231–5 (19 ref.)
Guideline values for sediments contaminated with dioxins and furans. Comber SD, et al. **Ecotoxicol Environ Saf** 1996 Nov;35(2):102–8 (41 ref.)
Effect of river and wetland sediments on toxicity of metolachlor. Karuppiah M, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):180–2
PAH content and mutagenicity of marine sediments from the Venice lagoon. La Rocca C, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):236–45
Evidence from whole-sediment, porewater, and elutriate testing in toxicity assessment of contaminated sediments. Liss W, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):140–7
Chemical-activated luciferase gene expression (CALUX): a novel in vitro bioassay for Ah receptor active compounds in sediments and pore water. Murk AJ, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):149–60
Chemical composition of sediments, suspended matter, river water and ground water of the Nile (Aswan-Sohag traverse). Dekov VM, et al. **Sci Total Environ** 1997 Aug 18;201(3):195–210
Plutonium in fish, algae, and sediments in the Barents, Petshora and Kara Seas. Ikäheimonen TK, et al. **Sci Total Environ** 1997 Aug 25;202(1–3):79–87
Perturbation in the 240Pu/239Pu global fallout ratio in local sediments following the nuclear accidents at Thule (Greenland) and Palomares (Spain). Mitchell PI, et al. **Sci Total Environ** 1997 Aug 25;202(1–3):147–53
The history and source of particulate 137Cs and 239,240Pu deposition in sediments of the Ob River Delta, Siberia. Sayles FL, et al. **Sci Total Environ** 1997 Aug 25; 202(1–3):25–41
Composition and distribution of polycyclic aromatic hydrocarbon contamination in surficial marine sediments from Kitimat Harbor, Canada. Simpson CD, et al. **Sci Total Environ** 1996 Mar 29;181(3):265–78
Spatial variation in the vulnerability of Norwegian Arctic counties to radiocaesium deposition. Wright SM, et al. **Sci Total Environ** 1997 Aug 25;202(1–3):173–84

MICROBIOLOGY

The effect of sulfate and nitrate on methane formation in a freshwater sediment. Scholten JC, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):309–15
Characterization of the sediment bacterial community in groundwater discharge zones of an alkaline fen: a seasonal study. Gsell TC, et al. **Appl Environ Microbiol** 1997 Aug; 63(8):3111–8
Quantification of genetically tagged cyanobacteria in Baltic Sea sediment by competitive PCR. Möller A, et al. **Biotechniques** 1997 Mar;22(3):512–8
Lipid biomarkers for bacterial ecosystems: studies of cultured organisms, hydrothermal environments and ancient sediments. Summons RE, et al. **Ciba Found Symp** 1996; 202:174–93; discussion 193–4 (33 ref.)
Microbial flora in the deepest sea mud of the Mariana Trench. Takami H, et al. **FEMS Microbiol Lett** 1997 Jul 15; 152(2):279–85
Detection of Clostridium botulinum in fish and environmental samples using polymerase chain reaction. Hielm S, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):357–65

GEOLOGY

Fatality due to acute fluoride poisoning following dermal contact with hydrofluoric acid in a palynology laboratory. Muriale L, et al. **Ann Occup Hyg** 1996 Dec;40(6):705–10
Protistan communities in aquifers: a review. Novarino G, et al. **FEMS Microbiol Rev** 1997 Jul;20(3–4):261–75 (95 ref.)
Effect of enhanced geomagnetic activity on hypothermia and mortality in rats. Bureau YR, et al. **Int J Biometeorol** 1996 Nov;39(4):197–200
Neural networks in petroleum engineering: a case study [letter] Vukelic MA, et al. **Int J Neural Syst** 1996 May; 7(2):187–94 (11 ref.)
Sima de los Huesos (Sierra de Atapuerca, Spain). The site. Arsuaga JL, et al. **J Hum Evol** 1997 Aug–Sep; 33(2–3):109–27
Geology and preliminary dating of the hominid-bearing sedimentary fill of the Sima de los Huesos Chamber, Cueva Mayor of the Sierra de Atapuerca, Burgos, Spain. Bischoff JL, et al. **J Hum Evol** 1997 Aug–Sep;33(2–3):129–54
Velocity distribution of slow fluid flows in Bentheimer sandstone: an NMRI and propagator study. Waggoner RA, et al. **Magn Reson Imaging** 1996;14(9):1085–91
Extracellular bacterial mineralization within the context of geomicrobiology. Ben Omar N, et al. **Microbiologia** 1997 Jun;13(2):161–72 (40 ref.)
Implications of recent geological investigations of the Mozambique Channel for the mammalian colonization of Madagascar. McCall RA. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):663–5
[Assessing the health status of geologists working in the Far North] Vermel' AE, et al. **Med Tr Prom Ekol** 1996;(6):40–3 **(Rus)**

CLASSIFICATION

Demarcation of potentially mineral-deficient areas in central and northern Namibia by means of natural classification systems. Grant CC, et al. **Onderstepoort J Vet Res** 1996 Jun;63(2):109–20

METHODS

Exploration strategies for hydrothermal deposits. Horn RA. **Ciba Found Symp** 1996;202:236–46; discussion 246–8 (30 ref.)
The role of remote sensing in finding hydrothermal mineral deposits on earth. Huntington JF. **Ciba Found Symp** 1996; 202:214–31; discussion 231–5 (19 ref.)
Microorganisms as tracers in groundwater injection and recovery experiments: a review. Harvey RW. **FEMS Microbiol Rev** 1997 Jul;20(3–4):461–72 (46 ref.)
Sedimentation rates measurements in former channels of the upper Rhône river using Chernobyl 137Cs and 134Cs as tracers. Rostan JC, et al. **Sci Total Environ** 1997 Jan 30; 193(3):251–62

GEOTRICHOSIS

Disseminated Geotrichum capitatum infection with predominant liver involvement in a patient with non Hodgkin's lymphoma. Amft N, et al. **Haematologica** 1996 Jul–Aug;81(4):352–5

DIAGNOSIS

Geotrichosis of oral mucosa. Listemann H, et al. **Mycoses** 1996 Jul–Aug;39(7–8):289–91

DRUG THERAPY

Geotrichosis of oral mucosa. Listemann H, et al. **Mycoses** 1996 Jul–Aug;39(7–8):289–91

ETIOLOGY

Brain abscesses due to Geotrichum candidum. Kasantikul V, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):805–7 (9 ref.)

GEOTRICHUM

Disseminated Geotrichum capitatum infection with predominant liver involvement in a patient with non Hodgkin's lymphoma. Amft N, et al. **Haematologica** 1996 Jul–Aug;81(4):352–5

ENZYMOLOGY

Geotrichum candidum P-5 produces an intracellular serine protease resembling chymotrypsin. Litthauer D, et al. **Int J Biochem Cell Biol** 1996 Oct;28(10):1123–30

GEOTROPISM see **GRAVITROPISM**

GERANYLGERANYLATION see **PROTEIN ISOPRENYLATION**

GERANYLPYROPHOSPHATE SYNTHETASE see **DIMETHYLALLYLTRANSTRANSFERASE**

GERBILLINAE

Vein of the vestibular aqueduct in the gerbil. Kimura RS, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):44–51
Characterization of the unusual insulin of Psammomys obesus, a rodent with nutrition-induced NIDDM-like syndrome. Kaiser N, et al. **Diabetes** 1997 Jun;46(6):953–7
Measures of tuning and suppression in single-fiber and whole-nerve responses in young and quiet-aged gerbils. Hellstrom LI, et al. **J Acoust Soc Am** 1996 Nov; 100(5):3275–85
Development of distortion product emissions in the gerbil: "filter" response and signal delay. Mills DM, et al. **J Acoust Soc Am** 1997 Jan;101(1):395–411
Squamous cell carcinoma of the midventral abdominal pad in three gerbils. Jackson TA, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):789–91
Induction of ulceration and severe gastritis in Mongolian gerbil by Helicobacter pylori infection. Matsumoto S, et al. **J Med Microbiol** 1997 May;46(5):391–7
Electrophoretic study of lactate dehydrogenase and alkaline

phosphatase isoenzymes of the Mongolian gerbil (Meriones unguiculatus). Shimizu M, et al. **J Vet Med Sci** 1996 May; 58(5):401–6

The comparative host status of red veld rats (Aethomys chrysophilus) and bushveld gerbils (Tatera leucogaster) for epifaunal arthropods in the southern Kruger National Park, South Africa. Braack LE, et al.
Onderstepoort J Vet Res 1996 Jun;63(2):149–58

Ultrastructural localization of glutamate and aspartate immunoreactivities in gerbil inner hair cells. Liu TC.
ORL J Otorhinolaryngol Relat Spec 1997 May–Jun; 59(3):131–4

Safety in numbers: sophisticated vigilance by Allenby's gerbil. Rosenzweig ML, et al.
Proc Natl Acad Sci U S A 1997 May 27;94(11):5713–5

Meriones libycus and Rhombomys opimus (Rodentia: Gerbillidae) are the main reservoir hosts in a new focus of zoonotic cutaneous leishmaniasis in Iran.
Yaghoobi–Ershadi MR, et al.
Trans R Soc Trop Med Hyg 1996 Sep–Oct;90(5):503–4

[The spatial relationships and social structure of gerbils in the genus Meriones (Gerbillinae, Rodentia)] Gromov VS.
Zh Obshch Biol 1997 Mar–Apr;58(2):35–54 (Eng. Abstr.) **(Rus)**

[Anatomic features of the middle ear in the gerbil. Scanning electronic microscopic study] Escobar C, et al.
Acta Otorrinolaringol Esp 1997 Mar;48(2):99–104 (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Postnatal development of a sexually dimorphic, hypothalamic nucleus in gerbils: a stereological study of neuronal number and apoptosis. Holman SD, et al. **J Comp Neurol** 1996 Dec 9;376(2):315–25

Ultrastructural study of external cuneothalamic neurons and their synaptic relationships with primary afferents in the gerbil. Lan CT, et al. **J Comp Neurol** 1996 Mar 11; 366(3):406–15

BLOOD

Plasma progesterone concentrations during pregnancy and lactation in Mongolian gerbils (Meriones unguiculatus). Kai O, et al. **Exp Anim** 1997 Apr;46(2):157–9

EMBRYOLOGY

Development of the hypothalamic vasopressin system and nephrons in Meriones shawi during ontogenesis. Rabhi M, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):281–96

GENETICS

A finding of the XX/XY1Y2 sex-chromosome system in Taterillus arenarius (Gerbillinae, Rodentia) and its phylogenetic implications. Volobouev V, et al.
Cytogenet Cell Genet 1996;75(1):45–8

GROWTH & DEVELOPMENT

Development of the hypothalamic vasopressin system and nephrons in Meriones shawi during ontogenesis. Rabhi M, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):281–96

Stereological estimates of postnatal structural differentiation in a sexually dimorphic hypothalamic nucleus involved in vocal control. Holman SD, et al. **Brain Res** 1995 Oct 2; 694(1–2):167–76

Susceptibility of developing cochlear nucleus neurons to deafferentation–induced death abruptly ends just before the onset of hearing. Tierney TS, et al. **J Comp Neurol** 1997 Feb 10;378(2):295–306

METABOLISM

Dissociation of plasma and urinary steroid values after application of stressors, insulin, vasopressin, ACTH, or dexamethasone in the Mongolian gerbil. Fenske M.
Exp Clin Endocrinol Diabetes 1996;104(6):441–6

Differentiation of glycoconjugates localized to sensory terminals and selected sites in brain. Spicer SS, et al.
J Comp Neurol 1996 Feb 5;365(2):217–31

Brush border membrane vesicles from rats and gerbils can be utilized to evaluate the intestinal uptake of all–trans and 9–cis beta–carotene. Moore AC, et al. **J Nutr** 1996 Nov; 126(11):2904–12

PARASITOLOGY

Reduction of challenge parasite population in gerbils, Meriones unguiculatus, chronically infected with Schistosoma mansoni. Ozaki T, et al. **J Parasitol** 1997 Apr; 83(2):328–9

Transglutaminase–catalyzed incorporation of host proteins in Brugia malayi microfilariae. Mehta K, et al.
Mol Biochem Parasitol 1996 Feb–Mar;76(1–2):105–14

A 41–kDa antigen of the rodent filaria Acanthocheilonema viteae with homologies to tropomyosin induces host–protective immune responses. Hartmann S, et al.
Parasitol Res 1997;83(4):390–3

Acanthocheilonema viteae: vaccination with irradiated L3 induces resistance in three species of rodents (Meriones unguiculatus, Mastomys coucha, Mesocricetus auratus). Schrempf–Eppstein B, et al. **Trop Med Int Health** 1997 Jan;2(1):104–10

Effect of passage of Babesia ovis in the gerbil (Acomys cahirinus) on the course of infection in splenectomized lambs. Yeruham I, et al. **Vet Parasitol** 1996 Oct 15; 65(1–2):157–61

[The use of radioisotope labelling for studying the feeding of sandflies (Phlebotominae) and their move into colonies of the greater gerbil (Rhombomys opimus Licht.)] Dergacheva TI, et al. **Med Parazitol (Mosk)** 1996 Jul–Sep; (3):11–4 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Increased susceptibility of islets from diabetes–prone Psammomys obesus to the deleterious effects of chronic glucose exposure. Gross DJ, et al. **Endocrinology** 1996 Dec; 137(12):5610–5

Study on the estrous cycle in the Mongolian gerbil (Meriones unguiculatus). Nishino N, et al. **Exp Anim** 1996 Jul; 45(3):283–8

Influence of thyroid status on water metabolism and survival of normal and dehydrated desert rodents Meriones libycus. Chaouacha–Chekir RB, et al. **Gen Comp Endocrinol** 1997 Jan;105(1):1–8

The cochlear place–frequency map of the adult and developing Mongolian gerbil. Müller M. **Hear Res** 1996 May;94(1–2):148–56

Effects of androgens and estrogens on sexual differentiation of sex behavior, scent marking, and the sexually dimorphic area of the gerbil hypothalamus. Ulibarri C, et al.
Horm Behav 1996 Jun;30(2):107–30

Response variability to ischemic injury in the Mongolian gerbil: an electroencephalographic and behavioral study. Gambelunghe C, et al. **Ital J Neurol Sci** 1996 Jun; 17(3):219–25

Sound–power collection by the auditory periphery of the Mongolian gerbil Meriones unguiculatus: III. Effect of variations in middle–ear volume. Ravicz ME, et al.
J Acoust Soc Am 1997 Apr;101(4):2135–47

[Growth and functional activity of the abdominal gland and marking behavior of Midday (Meriones meridianus) and Tamarisk (M. tamariscinus) gerbils] Sokolov VE, et al.
Dokl Akad Nauk 1997 Mar;353(1):134–7 **(Rus)**

[An experimental study of the rate and dynamics of the progression of different foods through the digestive tract of the greater gerbil] Naumova EI, et al.
Izv Akad Nauk Ser Biol 1996 Nov–Dec;(6):716–24 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Kinship and familiarity as factors affecting social transfer of food preferences in adult Mongolian gerbils (Meriones unguiculatus). Valsecchi P, et al. **J Comp Psychol** 1996 Sep; 110(3):243–51

VIROLOGY

La Crosse viremias in Mongolian gerbils (Meriones unguiculatis). Osorio JE, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):567–9

GERBILS see **GERBILLINAE**

GERIATRIC ASSESSMENT

Myasthenia gravis in the elderly: a hospital based study. Antonini G, et al. **Acta Neurol Scand** 1996 Apr;93(4):260–2

Oral health in institutionalized elderly people in 1993 compared with in 1980. Jokstad A, et al.
Acta Odontol Scand 1996 Oct;54(5):303–8

Comfortable and maximum walking speed of adults aged 20–79 years: reference values and determinants. Bohannon RW. **Age Ageing** 1997 Jan;26(1):15–9

Casemix for inpatient care of elderly people: rehabilitation and post–acute care. Casemix for the Elderly Inpatient Working Group. Carpenter GI, et al. **Age Ageing** 1997 Mar; 26(2):123–31

The role of a specialist team in implementing continuing health care guidelines in hospitalized patients. Cockram A, et al. **Age Ageing** 1997 May;26(3):211–6

Review: delusions in dementia [see comments] Harvey RJ. **Age Ageing** 1996 Sep;25(5):405–8 (21 ref.). Comment in: Age Ageing 1997 May;26(3):238–9.

Cognitive impairment in medical inpatients. I: Screening for dementia--is history better than mental state? Harwood DM, et al. **Age Ageing** 1997 Jan;26(1):31–5

Cognitive impairment in medical inpatients. II: Do physicians miss cognitive impairment? Harwood DM, et al.
Age Ageing 1997 Jan;26(1):37–9

The role of the physician in geriatric medicine in the ageing society. 3. In acute medicine: the traditional model. Hastie IR. **Age Ageing** 1994;23 Suppl 3:S27

Seasonal variation in 25–hydroxyvitamin D and parathyroid hormone concentrations in healthy elderly people. Hegarty V, et al. **Age Ageing** 1994 Nov;23(6):478–82

Improving the care of elderly diabetic patients: the final report of the St Vincent Joint Task Force for Diabetes. Hendra TJ, et al. **Age Ageing** 1997 Jan;26(1):3–6

Changes over time in the ADL status of elderly US veterans. Hisnanick JJ. **Age Ageing** 1994 Nov;23(6):505–11

Self–reported functioning and well–being in patients with Parkinson's disease: comparison of the Short–Form 36 and the Parkinson's Disease Questionnaire [letter; comment] Hobson P, et al. **Age Ageing** 1996 Jul;25(4):334–5. Comment on: Age Ageing 1995 Nov;24(6):505–9.

Acute phase proteins, C–reactive protein and serum amyloid A protein, as prognostic markers in the elderly inpatient. Hogarth MB, et al. **Age Ageing** 1997 Mar;26(2):153–8

Nutritional supplementation in elderly medical in–patients: a double–blind placebo–controlled trial. Hogarth MB, et al. **Age Ageing** 1996 Nov;25(6):453–7

The role of the physician in geriatric medicine in the ageing society. In training. James OF. **Age Ageing** 1994;23 Suppl 3:S43–5

Evaluation of treatment for congestive heart failure in patients aged 60 years and older using generic measures of health status (SF–36 and COOP charts). Jenkinson C, et al. **Age Ageing** 1997 Jan;26(1):7–13

Preventing pressure sores in elderly patients: a comparison of seven mattress overlays [letter; comment] Lowthian P. **Age Ageing** 1996 Jul;25(4):334. Comment on: Age Ageing 1995 Jul;24(4):297–302.

Carer informants for dementia sufferers: carer awareness of cognitive impairment in an elderly community–resident sample. McLoughlin DM, et al. **Age Ageing** 1996 Sep; 25(5):367–71

Unexplained macrocytosis in elderly patients [see comments] Mahmoud MY, et al. **Age Ageing** 1996 Jul;25(4):310–2. Comment in: Age Ageing 1997 May;26(3):237–8.

REM sleep behaviour disorder: a treatable cause of falls in elderly people. Morfis L, et al. **Age Ageing** 1997 Jan; 26(1):43–4

Screening for anxiety and depression in elderly medical outpatients. Neal RM, et al. **Age Ageing** 1994 Nov; 23(6):461–4

Outcome in patients who require a gastrostomy after stroke [letter; comment] Norton B, et al. **Age Ageing** 1996 Nov; 25(6):493. Comment on: Age Ageing 1995 Nov;24(6):510–4.

Predicting delirium in elderly patients: development and validation of a risk–stratification model. O'Keeffe ST, et al. **Age Ageing** 1996 Jul;25(4):317–21

Influence of written information on patients' knowledge of their diagnosis. Patterson C, et al. **Age Ageing** 1997 Jan; 26(1):41–2

Outcome in patients who require a gastrostomy after stroke [letter; comment] Smithard D. **Age Ageing** 1996 Jul; 25(4):335–6. Comment on: Age Ageing 1995 Nov;24(6):510–4.

Oxygen desaturation on swallowing in patients with stroke: what it mean? [letter; comment] Teramoto S, et al.
Age Ageing 1996 Jul;25(4):333–4. Comment on: Age Ageing 1995 Jul;24(4):267–70.

The role of the physician in geriatric medicine in the ageing society. In continuing care. Webster SG. **Age Ageing** 1994; 23 Suppl 3:S36–8

Cognitive therapy with elderly people. Wilkinson P.
Age Ageing 1997 Jan;26(1):53–8

Prospective value of self–report and performance–based tests of functional status for 18–month outcomes in elderly patients. Nikolaus T, et al. **Aging (Milano)** 1996 Aug; 8(4):271–6

Predictors of five–year functional ability in a longitudinal survey of men and women aged 75 to 80. The 1914–population in Glostrup, Denmark. Schroll M, et al. **Aging (Milano)** 1997 Feb–Apr;9(1–2):143–52

What do we know about patient targeting in geriatric evaluation and management (GEM) programs? Wieland D, et al. **Aging (Milano)** 1996 Oct;8(5):297–310 (86 ref.)

Clinical global measures of dementia. Position paper from the International Working Group on Harmonization of Dementia Drug Guidelines. Reisberg B, et al.
Alzheimer Dis Assoc Disord 1997;11 Suppl 3:8–18

Quality–of–life assessment in dementia drug development. Position paper from the International Working Group on Harmonization of Dementia Drug Guidelines. Whitehouse PJ, et al. **Alzheimer Dis Assoc Disord** 1997;11 Suppl 3:56–60

The Cognitive Assessment Screening Test (CAST) [editorial] Cefalu CA. **Am Fam Physician** 1996 Nov 1;54(6):1877–8, 1880

Screening for dementia: Cognitive Assessment Screening Test (CAST). Drachman DA, et al. **Am Fam Physician** 1996 Nov 1;54(6):1957–62

Correlates of hypoalbuminemia in community–dwelling older persons. Reuben DB, et al. **Am J Clin Nutr** 1997 Jul; 66(1):38–45

Acute cognitive impairment in elderly ED patients: etiologies and outcomes. Wofford JL, et al. **Am J Emerg Med** 1996 Nov;14(7):649–53

Incidence of functional decline and improvement in a community–dwelling, very elderly population. Hébert R, et al. **Am J Epidemiol** 1997 May 15;145(10):935–44

Diabetes mellitus, impaired glucose tolerance, and hyperinsulinemia in an elderly population. The Rotterdam Study. Stolk RP, et al. **Am J Epidemiol** 1997 Jan 1; 145(1):24–32

Avoiding GI surgery in the elderly: a misguided paterdistic assumption? Baillie J. **Am J Gastroenterol** 1997 Jan; 92(1):176–7

The limits of history–taking in geriatric depression. Wiener P, et al. **Am J Geriatr Psychiatry** 1997 Spring;5(2):116–25

Memory disorders consultation service [letter] Gong WC, et al. **Am J Health Syst Pharm** 1997 Jan 1;54(1):92, 95

A randomized trial of office–based screening for common problems in older persons. Moore AA, et al.
Am J Med 1997 Apr;102(4):371–8

Assessing neurologic function in older patients. Crigger N, et al. **Am J Nurs** 1997 Mar;97(3):37–40 (10 ref.)

The outcome of elderly patients after operation for acute abdomen. Miettinen P, et al. **Ann Chir Gynaecol** 1996; 85(1):11–5

The influence of diabetes, hypertension, and stroke on ethnic differences in physical and cognitive functioning in an ethnically diverse older population. Haan MN, et al. **Ann Epidemiol** 1996 Sep;6(5):392–8

The effect of medical conditions on the functional limitations of Mexican-American elderly. Markides KS, et al. **Ann Epidemiol** 1996 Sep;6(5):386–91

Cancer and comorbidity in older patients: a descriptive profile. Yancik R, et al. **Ann Epidemiol** 1996 Sep; 6(5):399–412

The assessment of acute confusion as part of nursing care. Miller J, et al. **Appl Nurs Res** 1997 Aug;10(3):143–51

Postural control and strength and mood among older adults. Topp R, et al. **Appl Nurs Res** 1997 Feb;10(1):11–8

Home alone: the role of cognition in return to independent living. MacNeill SE, et al. **Arch Phys Med Rehabil** 1997 Jul;78(7):755–8

Balance screening of an inner city older adult population. Newton RA. **Arch Phys Med Rehabil** 1997 Jun;78(6):587–91

Reliability and validity of the FIM for persons aged 80 years and above from a multilevel continuing care retirement community. Pollak N, et al. **Arch Phys Med Rehabil** 1996 Oct;77(10):1056–61

Elderly care. A pilot project on opportunistic geriatric assessments in general practice. Shah S, et al. **Aust Fam Physician** 1997 Mar;26(3):275–9

A survey of general practitioner's confidence in their management of elderly patients. Shah S, et al. **Aust Fam Physician** 1997 Jan;26 Suppl 1:S12–7

Psychosocial stressors, physical illness and the spectrum of depression in elderly inpatients. Draper B, et al. **Aust N Z J Psychiatry** 1996 Oct;30(5):567–72

Ethnicity and aged care assessment teams in Queensland. Davis C, et al. **Aust N Z J Public Health** 1996 Feb; 20(1):33–40

Health care costs of people referred to an aged care assessment team: the effect of cognitive impairment. LoGiudice D, et al. **Aust N Z J Public Health** 1997 Jun; 21(3):311–5

Predicting outcomes of community-based continuing care. Four-year prospective study of functional assessment versus clinical judgment. Worrall G, et al. **Can Fam Physician** 1996 Dec;42:2360–7

Psychogeriatric consultation services: effect and effectiveness. Teitelbaum L, et al. **Can J Psychiatry** 1996 Dec;41(10):638–44

Correlates of self-rated health in persons aged 85 and over: results from the Canadian Study of Health and Aging. Ebly EM, et al. **Can J Public Health** 1996 Jan–Feb;87(1):28–31

Geriatric assessment in oncology. Reuben DB. **Cancer** 1997 Oct 1;80(7):1311–6 (15 ref.)

Differential diagnosis of gait disorders in older adults. Alexander NB. **Clin Geriatr Med** 1996 Nov;12(4):689–703 (74 ref.)

Using technology-based techniques to assess postural control and gait in older adults. Alexander NB. **Clin Geriatr Med** 1996 Nov;12(4):725–44 (135 ref.)

Educational assessment and teaching of older clients with pressure ulcers. Ayello EA, et al. **Clin Geriatr Med** 1997 Aug;13(3):483–96 (20 ref.)

Functional assessment of balance and gait. Berg K, et al. **Clin Geriatr Med** 1996 Nov;12(4):705–23 (68 ref.)

Exercise to improve physiologic and functional performance in old age. Chandler JM, et al. **Clin Geriatr Med** 1996 Nov; 12(4):761–84 (62 ref.)

Evaluation and management of dizziness in the older patient. Sloane PD. **Clin Geriatr Med** 1996 Nov;12(4):785–801 (58 ref.)

Clinical overview of instability in the elderly. Studenski S, et al. **Clin Geriatr Med** 1996 Nov;12(4):679–88 (16 ref.)

Recruiting older adults for clinical trials. Adams J, et al. **Control Clin Trials** 1997 Feb;18(1):14–26

Disability and cognitive impairment in the elderly. Barberger-Gateau P, et al. **Disabil Rehabil** 1997 May; 19(5):175–93 (173 ref.)

Re: Wyller TB, Sveen U, Bautz-Holter E. The Frenchay Activities Index in stroke patients: agreement between scores by patients and by relatives. Disability and Rehabilitation 1996; 18, 454–459 [letter; comment] Segal M, et al. **Disabil Rehabil** 1997 Mar;19(3):120–2. Comment on: Disabil Rehabil 1996 Sep;18(9):454–9.

Assessing function in the elderly: is it mainstream? Gazewood J, et al. **Fam Med** 1997 Jun;29(6):406–9

Why do the elderly seek or avoid care? A qualitative analysis. Koval M, et al. **Fam Med** 1996 May;28(5):352–7

The effect of cognitive status on outcomes following rehabilitation. Resnick B, et al. **Fam Med** 1997 Jun; 29(6):400–5

Variations in functional status among different groups of elderly people. Wollstadt LJ, et al. **Fam Med** 1997 Jun; 29(6):394–9

Suicide in the elderly. Recognizing the signs. Johnston M, et al. **Gen Hosp Psychiatry** 1996 Jul;18(4):257–60

In-office screening for age-related hearing and vision loss. Abyad A. **Geriatrics** 1997 Jun;52(6):45–6, 51–4, 57

Nursing home visits: an efficient system for the busy physician. McCartney RD, et al. **Geriatrics** 1997 May; 52(5):57–60, 65, 69 (17 ref.)

Patients who fall: how to predict and prevent injuries. Tibbitts GM. **Geriatrics** 1996 Sep;51(9):24–8, 31 (19 ref.)

Nativity, declining health, and preferences in living arrangements among elderly Mexican Americans: implications for long-term care. Angel JL, et al. **Gerontologist** 1996 Aug;36(4):464–73

Evaluation of a self-report screening instrument to predict frailty outcomes in aging populations. Brody KK, et al. **Gerontologist** 1997 Apr;37(2):182–91

Retrain, don't restrain: the educational intervention of the National Nursing Home Restraint Removal Project. Dunbar JM, et al. **Gerontologist** 1996 Aug;36(4):539–42

Pharmaceutical care for home-dwelling elderly persons: a determination of need and program description. Hunter KA, et al. **Gerontologist** 1996 Aug;36(4):543–8

Measuring and monitoring general health status in elderly persons: practical and methodological issues in using the SF-36 Health Survey. McHorney CA. **Gerontologist** 1996 Oct;36(5):571–83 (74 ref.)

Fundamental analysis in research on well-being: distress and the sense of control. Mirowsky J, et al. **Gerontologist** 1996 Oct;36(5):584–94 (26 ref.)

Comparison of health and functional ability between noninstitutionalized and least dependent institutionalized elderly in Finland. Noro A, et al. **Gerontologist** 1997 Jun; 37(3):374–83

Measuring psychosocial aspects of well-being in older community residents: performance of four short scales. Steiner A, et al. **Gerontologist** 1996 Feb;36(1):54–62

Outpatient geriatric evaluation and management: is there an investment effect? Toseland RW, et al. **Gerontologist** 1997 Jun;37(3):324–32

Everyday cognitive competence in elderly persons: conceptual issues and empirical findings. Willis SL. **Gerontologist** 1996 Oct;36(5):595–601

Assessment of functional ability with the bed rise difficulty scale in a group of elderly patients. Boffelli S, et al. **Gerontology** 1996;42(5):294–300

An audit of the radiology requirements of a geriatric assessment unit in its first year. Britton I, et al. **Health Bull (Edinb)** 1996 Jan;54(1):63–5

Assessment tools for general health care settings: PRIME-MD, OARS, and SF-36. Primary Care Evaluation of Mental Health Disorders. Older Americans Resources and Services Questionnaire; Short Form-36. Van Hook MP, et al. **Health Soc Work** 1996 Aug;21(3):230–4 (23 ref.)

Continuum of care ... stereotypes about addled old folks should be retired [news] **Hosp Health Netw** 1996 Nov 5; 70(21):22–3

Geriatrics for orthopaedists. Brummel-Smith K. **Instr Course Lect** 1997;46:409–16 (39 ref.)

Factors affecting quality of life of the Korean aged stroke patients. Yoon H. **Int J Aging Hum Dev** 1997;44(3):167–81

A Spanish version of the geriatric depression scale in Mexican-American elders. Baker FM, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):21–5

The Clock Drawing Test for dementia of the Alzheimer's type: A comparison of three scoring methods in a memory disorders clinic. Brodaty H, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):619–27

Early cognitive markers of the incidence of dementia and mortality: a longitudinal population-based study of the oldest old. Johansson B, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):53–9

The psychogeriatric assessment scales (PAS): further data on psychometric properties and validity from a longitudinal study of the elderly. Jorm AF, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):93–100

Evoked potentials in geriatric depression [editorial] Kalayam B. **Int J Geriatr Psychiatry** 1997 Jan;12(1):3–5 (10 ref.)

Aggressive behaviour in the Chinese elderly—validation of the Chinese version of the rating scale for aggressive behaviour in the elderly (RAGE) in hospital and nursing home settings. Lam LC, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):678–81

A study of the quality of life in elderly people using psychological testing. Nagatomo I, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):599–608

Home-based assessment for family carers: a preventative strategy to identify and meet service needs. Nankervis J, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):193–201

The problem of dementia in Australian aboriginal and Torres Strait Islander communities: an overview. Pollitt PA. **Int J Geriatr Psychiatry** 1997 Feb;12(2):155–63 (75 ref.)

The relationship between two scales measuring aggressive behaviour among elderly nursing home residents. Shah A, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):628–31

Outcome of delirium: Part 1. Outcome of delirium diagnosed by DSM-III-R, ICD-10 and CAMDEX and derivation of the Reversible Cognitive Dysfunction Scale among acute geriatric inpatients. Treloar AJ, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):609–13

Detection of depression in primary care: comparison of two self-administered scales. Upadhyaya AK, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):35–7

Limitations of the Mini-Mental State Examination in diagnosing dementia in general practice. Wind AW, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):101–8

The reliability of upper limb anthropometry in older Chinese people. Kwok T, et al. **Int J Obes Relat Metab Disord** 1997 Jul;21(7):542–7

Cross-sectional psychometric assessment of the Functional Status Questionnaire: use with geriatric versus nongeriatric ambulatory medical patients. Yarnold PR, et al. **Int J Psychiatry Med** 1995;25(4):305–17

An audit of meal provision in an elderly care hospital. Hankey CR, et al. **Int J Qual Health Care** 1996 Aug; 8(4):375–82

Direct observation of behavioral disturbances of dementia and their environmental context. Burgio L. **Int Psychogeriatr** 1996;8 Suppl 3:343–6

Measuring functional competence in older persons with Alzheimer's disease. Doble SE, et al. **Int Psychogeriatr** 1997 Mar;9(1):25–38

Napping in the elderly and its association with night sleep and psychological status. Frisoni GB, et al. **Int Psychogeriatr** 1996 Fall;8(3):477–87

Screening for dementia: a preliminary study on the validity of the Chinese version of the Blessed-Roth Dementia Scale. Lam LC, et al. **Int Psychogeriatr** 1997 Mar;9(1):39–46

The elderly with a learning disability (mental retardation): an overview. McCarthy JM, et al. **Int Psychogeriatr** 1996 Fall;8(3):489–501 (60 ref.)

1995 IPA/Bayer Research Awards in Psychogeriatrics. Late-life consequences of affective spectrum disorder. Vaillant GE, et al. **Int Psychogeriatr** 1996 Spring;8(1):13–32

Profile of Jerusalem's 70 year olds—social data. Cohen A, et al. **Isr J Med Sci** 1996 Aug;32(8):688–701

Characteristics of falls in 70 year olds in Jerusalem. Dresner-Pollak R, et al. **Isr J Med Sci** 1996 Aug; 32(8):625–8

The nutritional status of 70 year olds in Jerusalem. Maaravi Y, et al. **Isr J Med Sci** 1996 Aug;32(8):620–5

Findings from longitudinal cohort studies: Gothenburg and Jerusalem. Stessman J, et al. **Isr J Med Sci** 1996 Aug; 32(8):607–10

Profile of Jerusalem's 70 year olds—medical data. Stessman J, et al. **Isr J Med Sci** 1996 Aug;32(8):665–87

Missed diagnoses among elderly patients discharged from an accident and emergency department. Khan SA, et al. **J Accid Emerg Med** 1996 Jul;13(4):256–7

A self-assessment tool to measure older adults' perceptions regarding physical fitness and exercise activity. Devereaux Melillo K, et al. **J Adv Nurs** 1997 Jun;25(6):1220–6

Discharge of elderly people from an accident and emergency department: evaluation of health visitor follow-up. Runciman P, et al. **J Adv Nurs** 1996 Oct;24(4):711–8

Dietary, anthropometric, hematological and biochemical assessment of the nutritional status of centenarians and elderly people in Okinawa, Japan. Chan YC, et al. **J Am Coll Nutr** 1997 Jun;16(3):229–35

Estimation of vitamin needs—riboflavin, vitamin B6 and ascorbic acid-according to blood parameters and functional-cognitive and emotional indices in a selected well-established group of elderly in a home for the aged in Israel. Dror Y, et al. **J Am Coll Nutr** 1996 Oct; 15(5):481–8

Analyzed dietary intakes, plasma concentrations of zinc, copper, and selenium, and related antioxidant enzyme activities in hospitalized elderly women. Schmuck A, et al. **J Am Coll Nutr** 1996 Oct;15(5):462–8

The process of care in preventive in-home comprehensive geriatric assessment. Alessi CA, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1044–50

Rising from the floor in older adults. Alexander NB, et al. **J Am Geriatr Soc** 1997 May;45(5):564–9

Body mass index and physical function in obese older women [letter] Apovian CM, et al. **J Am Geriatr Soc** 1996 Dec; 44(12):1487–8

Medical screening of older drivers [letter; comment] Bédard M, et al. **J Am Geriatr Soc** 1997 Mar;45(3):388–9. Comment on: J Am Geriatr Soc 1996 Jun;44(6):650–3.

A university-affiliated community hospital inpatient geriatrics program functioning in an administrative and educational capacity. Cefalu CA, et al. **J Am Geriatr Soc** 1997 Mar;45(3):355–60

Test-retest reliability of self-reported disability measures in older adults. Crawford SL, et al. **J Am Geriatr Soc** 1997 Mar;45(3):338–41

Questionable dementia: clinical course and predictors of outcome. Devanand DP, et al. **J Am Geriatr Soc** 1997 Mar; 45(3):321–8

Postural balance and self-reported functional ability in 75-year-old men and women: a cross-national comparative study. Era P, et al. **J Am Geriatr Soc** 1997 Jan;45(1):21–9

Does the Clock Drawing Test predict cognitive decline in older persons independent of the Mini-Mental State Examination? The FINE Study Group. Finland, Italy, The Netherlands Elderly. Ferrucci L, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1326–31

Disability in older adults: evidence regarding significance, etiology, and risk. Fried LP, et al. **J Am Geriatr Soc** 1997 Jan;45(1):92–100 (89 ref.)

Effect of the National Resident Assessment Instrument on selected health conditions and problems [see comments] Fries BE, et al. **J Am Geriatr Soc** 1997 Aug;45(8):994–1001 . Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

Preventive medicine and screening in older adults. Goldberg TH, et al. **J Am Geriatr Soc** 1997 Mar;45(3):344–54 (150 ref.)

The OBRA-87 nursing home regulations and implementation of the Resident Assessment Instrument: effects on process quality [see comments] Hawes C, et al.

J Am Geriatr Soc 1997 Aug;45(8):977–85. Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

Cognitive markers preceding Alzheimer's dementia in the healthy oldest old. Howieson DB, et al. **J Am Geriatr Soc** 1997 May;45(5):584–9

The relationship between physical performance measures and independence in instrumental activities of daily living. The FICSIT Group. Frailty and Injury: Cooperative Studies of Intervention Trials. Judge JO, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1332–41

Self-report of difficulty in performing functional activities identifies a broad range of disability in old age. Langlois JA, et al. **J Am Geriatr Soc** 1996 Dec;44(12):1421–8

Prospective evaluation of clinical criteria to select older persons with acute medical illness for care in a hypothetical home hospital. Leff B, et al. **J Am Geriatr Soc** 1997 Sep; 45(9):1066–73

Criteria for enrolling dementia patients in hospice [see comments] Luchins DJ, et al. **J Am Geriatr Soc** 1997 Sep; 45(9):1054–9. Comment in: J Am Geriatr Soc 1997 Sep;45(9):1147–9.

Gait changes in older adults: predictors of falls or indicators of fear? Maki BE. **J Am Geriatr Soc** 1997 Mar;45(3):313–20

Cognitive and functional status of the Japanese oldest old [letter; comment] Matsubayashi K, et al. **J Am Geriatr Soc** 1997 Mar;45(3):385–6. Comment on: J Am Geriatr Soc 1996 Jun;44(6):671–4.

Changes in hospitalization associated with introducing the Resident Assessment Instrument [see comments] Mor V, et al. **J Am Geriatr Soc** 1997 Aug;45(8):1002–10. Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

A commitment to change: revision of HCFA's RAI [see comments] Morris JN, et al. **J Am Geriatr Soc** 1997 Aug; 45(8):1011–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

Comprehensive clinical assessment in community setting: applicability of the MDS-HC [see comments] Morris JN, et al. **J Am Geriatr Soc** 1997 Aug;45(8):1017–24. Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

Sleep disturbance, psychosocial correlates, and cardiovascular disease in 5201 older adults: the Cardiovascular Health Study. Newman AB, et al. **J Am Geriatr Soc** 1997 Jan;45(1):1–7

The Resident Assessment Instrument (RAI): promise and pitfalls [comment] Ouslander JG. **J Am Geriatr Soc** 1997 Aug;45(8):975–6. Comment on: J Am Geriatr Soc 1997 Aug;45(8):977–85. Comment on: J Am Geriatr Soc 1997 Aug;45(8):986–93. Comment on: J Am Geriatr Soc 1997 Aug;45(8):994–1001. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1002–10. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1011–6. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1017–24. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1027–8. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

Association of the Resident Assessment Instrument (RAI) with changes in function, cognition, and psychosocial status [see comments] Phillips CD, et al. **J Am Geriatr Soc** 1997 Aug;45(8):986–93. Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

"Senility" redefined as age-associated frontal system impairment? [letter; comment] Polk MS. **J Am Geriatr Soc** 1997 Mar;45(3):386–8. Comment on: J Am Geriatr Soc 1996 Jun;44(6):671–4.

Can nursing homes use the MDS to improve quality? [editorial; comment] Schnelle JF. **J Am Geriatr Soc** 1997 Aug;45(8):1027–8. Comment on: J Am Geriatr Soc 1997 Aug;45(8):977–85. Comment on: J Am Geriatr Soc 1997 Aug;45(8):986–93. Comment on: J Am Geriatr Soc 1997 Aug;45(8):994–1001. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1002–10. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1011–6. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1017–24.

Managing geriatric syndromes: what geriatric assessment teams recommend, what primary care physicians implement, what patients adhere to. Shah PN, et al. **J Am Geriatr Soc** 1997 Apr;45(4):413–9

To treat or not to treat: issues in decisions not to treat older persons with cognitive impairment, depression, and incontinence. Silverman M, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1094–101

The Barthel activities of daily living index: self-reporting versus actual performance in the old-old (> or = 75 years). Sinoff G, et al. **J Am Geriatr Soc** 1997 Jul; 45(7):832–6

Speech perception in older adults: the importance of speech-specific cognitive abilities. Sommers MS. **J Am Geriatr Soc** 1997 May;45(5):633–7 (23 ref.)

Where's Gertrude? [editorial; comment] [see comments] Uman GC. **J Am Geriatr Soc** 1997 Aug;45(8):1025–6. Comment on: J Am Geriatr Soc 1997 Aug;45(8):977–85. Comment on: J Am Geriatr Soc 1997 Aug;45(8):986–93. Comment on: J Am Geriatr Soc 1997 Aug;45(8):994–1001. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1002–10. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1011–6. Comment on: J Am Geriatr Soc 1997 Aug;45(8):1017–24. Comment on: J Am Geriatr Soc 1997 Aug;45(8):975–6.

Characterization of older adults who attribute functional decrements to "old age". Williamson JD, et al. **J Am Geriatr Soc** 1996 Dec;44(12):1429–34

Identifying hospitalized older patients at varying risk for physical performance decline: a new approach. Winograd CH, et al. **J Am Geriatr Soc** 1997 May;45(5):604–9

A longitudinal examination of functional recovery among older people with subcapital hip fractures. Young Y, et al. **J Am Geriatr Soc** 1997 Mar;45(3):288–94

Effect of age and severity of disability on short-term variation in walking speed: the Women's Health and Aging Study. Ferrucci L, et al. **J Clin Epidemiol** 1996 Oct; 49(10):1089–96

The role of change in physical performance in determining risk for dependence in activities of daily living among nondisabled community-living elderly persons. Gill TM, et al. **J Clin Epidemiol** 1997 Jul;50(7):765–72

Measuring functional status: cross-sectional and longitudinal associations between performance and self-report (Zutphen Elderly Study 1990–1993). Hoeymans N, et al. **J Clin Epidemiol** 1996 Oct;49(10):1103–10

Validity of the Physical Activity Scale for the Elderly (PASE): according to energy expenditure assessed by the doubly labeled water method. Schuit AJ, et al. **J Clin Epidemiol** 1997 May;50(5):541–6

Use of surrogate respondents in studies of stroke and dementia. Weiss A, et al. **J Clin Epidemiol** 1996 Oct; 49(10):1187–94

The sensitivity of the Geriatric Oral Health Assessment Index to dental care. Dolan TA. **J Dent Educ** 1997 Jan; 61(1):37–46

Determinants of patient adherence to consultative comprehensive geriatric assessment recommendations. Frank JC, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan; 52(1):M44–51

Accuracy of nurse aides' functional health assessments of nursing home residents. Hartig MT, et al. **J Gerontol A Biol Sci Med Sci** 1997 May;52(3):M142–8

An assessment of falls in elderly men and women. Woolley SM, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar; 52(2):M80–7

Subject-caregiver response comparability on global health and functional status measures for African American, Puerto Rican, and Caucasian elders and their primary caregivers. Lawrence RH, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar;52(2):S103–11

Mini-Mental Status Examination: is it appropriate for screening in Thai elderly? Jitapunkul S, et al. **J Med Assoc Thai** 1997 Feb;80(2):116–20

The assessment of discomfort in elderly confused patients: a preliminary study. Miller J, et al. **J Neurosci Nurs** 1996 Jun;28(3):175–82

Mall walking. An effective mental health intervention for older adults. Travis SS, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Aug;34(8):36–8

Use of standardised assessment scales in elderly hip fracture patients. Shepherd SM, et al. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):335–43

Continuous automated telecare assessment of the elderly. Doughty K, et al. **J Telemed Telecare** 1997;3 Suppl 1:23–5

Trauma recidivism in the elderly. Gubler KD, et al. **J Trauma** 1996 Dec;41(6):952–6

Effects of systematic geriatric assessment. Schroll M. **Lancet** 1997 Aug 30;350(9078):604–5

A physician and the Senior Olympics. Andersen WA. **Md Med J** 1996 Aug;45(8):695

Test-retest performance of a mailed version of the Medical Outcomes Study 36-Item Short-Form Health Survey among older adults. Andresen EM, et al. **Med Care** 1996 Dec;34(12):1165–70

Measuring casemix, severity, and complexity in geriatric patients undergoing rehabilitation. Small Work Group I report. Leiter P. **Med Care** 1997 Jun;35(6 Suppl):JS113–7

Measuring casemix, severity, and complexity in geriatric patients undergoing rehabilitation. Small Work Group II report. Markello SJ. **Med Care** 1997 Jun;35(6 Suppl):JS118–20

Physical and cognitive functioning among chronically ill African-American and white elderly in home care following hospital discharge. Proctor EK, et al. **Med Care** 1997 Aug;35(8):782–91

Measuring casemix, severity, and complexity in geriatric patients undergoing rehabilitation. Stineman MG. **Med Care** 1997 Jun;35(6 Suppl):JS90–105; discussion JS106–12 (39 ref.)

Evaluating a national assessment strategy for urinary incontinence in nursing home residents: reliability of the minimum data set and validity of the resident assessment protocol. Resnick NM, et al. **Neurourol Urodyn** 1996; 15(6):583–98

The NEECHAM Confusion Scale: construction, validation, and clinical testing. Neelon VJ, et al. **Nurs Res** 1996 Nov-Dec;45(6):324–30 (49 ref.)

Adult periodic health assessment guides [letter] Healy LF. **Nurse Pract** 1997 Feb;22(2):171, 175–7

Use of the "fast evaluation of mobility, balance, and fear" in elderly community dwellers: validity and reliability. Di Fabio RP, et al. **Phys Ther** 1997 Sep;77(9):904–17

Predicting the probability for falls in community-dwelling older adults. Shumway-Cook A, et al. **Phys Ther** 1997 Aug; 77(8):812–9

Berg balance test [letter; comment] Stevenson T. **Phys Ther** 1996 Oct;76(10):1124, 1126. Comment on: Phys Ther 1996 Jun;76(6):576–83; discussion 584–5.

Berg balance test [letter; comment] Tsang R. **Phys Ther** 1996 Oct;76(10):1126. Comment on: Phys Ther 1996 Jun;76(6):576–83; discussion 584–5.

The exercise capacity of three socio-economic groups of elderly hypertensive patients. Eales CJ, et al. **Physiother Res Int** 1996;1(4):255–64

Disability and health: perceptions of a sample of elderly people. Partridge C, et al. **Physiother Res Int** 1996; 1(1):17–29

The dementing disorders. Hendrie HC, et al. **Psychiatr Q** 1997 Fall;68(3):261–79 (67 ref.)

The moderating influence of physical fitness on age gradients in vigilance and serial choice responding tasks. Bunce DJ, et al. **Psychol Aging** 1996 Dec;11(4):671–82

Adult age differences in recall of performed and nonperformed items. Earles JL. **Psychol Aging** 1996 Dec; 11(4):638–48

Aging, cognitive resources, and declarative learning. Kirasic KC, et al. **Psychol Aging** 1996 Dec;11(4):658–70

Mediators of long-term memory performance across the life span. Park DC, et al. **Psychol Aging** 1996 Dec;11(4):621–37

Measuring the need for nursing care in older adults living at home. Hays BJ, et al. **Public Health Nurs** 1997 Feb; 14(1):37–41

Is the SF-36 health survey questionnaire suitable as a self-report measure of the health status of older adults with Parkinson's disease? Hobson JP, et al. **Qual Life Res** 1997 Apr;6(3):213–6

Mental impairment and driving licences for elderly people—a survey among Norwegian general practitioners. Braekhus A, et al. **Scand J Prim Health Care** 1996 Dec;14(4):223–8

Functional ability of elderly persons with diabetes or impaired glucose tolerance. Hiltunen L, et al. **Scand J Prim Health Care** 1996 Dec;14(4):229–37

Item bias in self-reported functional ability among 75-year-old men and women in three Nordic localities. Avlund K, et al. **Scand J Soc Med** 1996 Sep;24(3):206–17

Outcome of aged patients in Finnish supervised home care [see comments] Karppi P, et al. **Scand J Soc Med** 1997 Mar;25(1):4–7. Comment in: Scand J Soc Med 1997 Mar;25(1):1–3.

Early discharge planning for elderly patients in acute hospitals—an intervention study. Styrborn K. **Scand J Soc Med** 1995 Dec;23(4):273–85

The assessment of disability with the Groningen Activity Restriction Scale. Conceptual framework and psychometric properties. Kempen GI, et al. **Soc Sci Med** 1996 Dec;43(11):1601–10

Navajo elderly people in a reservation nursing home: admission predictors and culture care practices. Mercer SO. **Soc Work** 1996 Mar;41(2):181–9

Screening assessment of the elderly in rural Thailand by a mobile unit. Swaddiwudhipong W, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun;90(3):223–7

[Early geriatric intervention. Consequences of reduced length of stay in a geriatric department] Danbaek L, et al. **Ugeskr Laeger** 1997 Jan 13;159(3):302–5 (Eng. Abstr.) **(Dan)**

[Assessment of indications for admission to a nursing home: evaluation of the questionnaire indication Alkmaar] Mehciz M, et al. **Tijdschr Gerontol Geriatr** 1996 Dec;27(6):243–9 (Eng. Abstr.) **(Dut)**

[Outcome predictive factors at six months for patients over 75 years admitted for emergency care] Kariger E, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):47–56 (Eng. Abstr.) **(Fre)**

[Predictive factors for institutionalization in the context of geriatric planning in the Gironde department (France)] Metzger MH, et al. **Rev Epidemiol Sante Publique** 1997 Jun;45(3):203–13 (Eng. Abstr.) **(Fre)**

[Diagnosis and therapy of cardiovascular diseases in elderly patients. Do different criteria apply?] Bachmann K, et al. **Fortschr Med** 1996 Mar 10;114(7):23–8 (Eng. Abstr.) **(Ger)**

[May elderly patients be denied heart surgery? Risk analysis and follow-up of patients over 80 years of age] Deiwick M, et al. **Fortschr Med** 1996 Mar 10;114(7):33–7 **(Ger)**

[Ambulatory geriatric screening (AGES) in general practice. 2: Physician assistant questionnaire—medical examination] Junius U, et al. **Fortschr Med** 1996 Aug 20; 114(22–23):279–80 **(Ger)**

[A prevention program for health problems in the elderly. Ambulatory Geriatric Screening (AGES) for use in general practice] Junius U, et al. **Fortschr Med** 1996 Jul 20; 114(20–21):259–61 (Eng. Abstr.) **(Ger)**

[Ambulatory Geriatric Screening (AGES) in general practice. 1: Patient questionnaire] Junius U, et al. **Fortschr Med** 1996 Jul 20;114(20–21):262–5 **(Ger)**

[Nutrition as prevention of illness in the elderly] Ollenschläger G. **Fortschr Med** 1996 Aug 20; 114(22–23):267–9 (0 ref.) (Eng. Abstr.) **(Ger)**

[The elderly patient with cardiovascular diseases--medical criteria alone are not decisive] Pullwitt DH, et al. **Fortschr Med** 1996 Mar 10;114(7):31–2 **(Ger)**

[The elderly cardiovascular patient in general practice.

Health care costs--drugs--economic feasibility] Schmidt K. **Fortschr Med** 1996 Mar 10;114(7):43–4 **(Ger)**

[Interventions on the heart in elderly patients--between feasible and sensible. Professor R. von Essen on the topic of interventional cardiology and heart operations in elderly patients (interview by Dr. rer. nat. Anita Schweiger)] von Essen R. **Fortschr Med** 1996 Mar 10;114(7):20–2 **(Ger)**

[Heart operations in patients older than 75. Results and postoperative rehabilitation] Aebert H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1018–20 (Eng. Abstr.) **(Ger)**

[Are their specific guidelines in surgical management in geriatric surgery?] Bauer H. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:448–52 (Eng. Abstr.) **(Ger)**

[Is heart surgery in over 80-year-old patients justified?] Brandt M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1015–7 (Eng. Abstr.) **(Ger)**

[Surgery in patients over 80 years of age--a retrospective analysis of 642 general surgery patients] Flamm C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:512–4 (Eng. Abstr.) **(Ger)**

[Geriatric tumor surgery--change in the patient sample] Hagmüller E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:477–9 (Eng. Abstr.) **(Ger)**

[Heart surgery in elderly patients] Klövekorn WP. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1009–12 **(Ger)**

[Cement-free management of femoral neck fractures in elderly patients with poor cardiopulmonary prognosis] Knipprath J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:981–2 (Eng. Abstr.) **(Ger)**

[Is sphincter-plasty for treatment of fecal incontinence in patients older than 60 justified?] Pfeifer J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:474–6 (Eng. Abstr.) **(Ger)**

[Prognostic significance of surgical morbidity in management of coxal femoral fracture in the elderly patient] Raunest J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:977–80 (Eng. Abstr.) **(Ger)**

[Injuries in elderly patients: maximal management versus minimal osteosynthesis depending on active life style and economic resources] Roesgen M. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:903–6 (6 ref.) (Eng. Abstr.) **(Ger)**

[Limits of geriatric surgery--where are they, can they be defined?] Schreiber HW. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:457–66 (74 ref.) (Eng. Abstr.) **(Ger)**

[Ulcer hemorrhage in elderly patients: primary conservative or surgical therapy?] Schröders CP, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:467–9 (Eng. Abstr.) **(Ger)**

[Coronary dilatation in geriatric patients--indications and results] Seggewiss H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1004–8 (19 ref.) (Eng. Abstr.) **(Ger)**

[Changes in the concept of aging and what it involves] Stelzner F. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:444–7 (Eng. Abstr.) **(Ger)**

[Demented patients pushed to the sideline?] **Nervenarzt** 1995 Jul;66(7 Suppl):1–4 **(Ger)**

[Degree of disability of demented patients as judged by relatives and experts (disability insurance)] Zerfass R, et al. **Psychiatr Prax** 1997 Mar;24(2):84–7 (Eng. Abstr.) **(Ger)**

[Physical fitness in the elderly] Zenker TK. **Rehabilitation (Stuttg)** 1996 Nov;35(4):233–6 (24 ref.) (Eng. Abstr.) **(Ger)**

[Social competence and ability to make decisions] Stähelin HB. **Ther Umsch** 1997 Jun;54(6):356–60 (Eng. Abstr.) **(Ger)**

[Geriatric assessment] Heiss HW. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):791–801 (Eng. Abstr.) **(Ger)**

[Psychiatry and psychotherapy of aging] Hirsch RD. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):803–16 (Eng. Abstr.) **(Ger)**

[Current aspects of secondary and tertiary prevention from the viewpoint of the clinical gerontologist] Lüttje D, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):817–24 (Eng. Abstr.) **(Ger)**

[Antihypertensive therapy in elderly patients] Schrader J, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):825–32 (24 ref.) (Eng. Abstr.) **(Ger)**

[Ambulatory geriatric rehabilitation--concepts, chances and responsibilities of participating physicians] Stamm T, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):847–57 (Eng. Abstr.) **(Ger)**

[Prevention, standards and future developments in medical specialties--guidelines for diagnosis and therapy. Working Group of Scientific Medical Specialty Societies] von K H Vosteen Z. **Z Arztl Fortbild (Jena)** 1995 Dec; 89(8):859–74 **(Ger)**

[Development of a health promotion program for the target group "elderly people"] Walter U, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):839–46 (46 ref.) (Eng. Abstr.) **(Ger)**

[Residents of homes for the aged in Germany: characteristics of social structure and choice of nursing home] Klein T, et al. **Z Gerontol Geriatr** 1997 Jan-Feb;30(1):54–67 (Eng. Abstr.) **(Ger)**

[Multidisciplinary perspectives on the topic of age and aging (editorial)] Kruse A. **Z Gerontol Geriatr** 1997 Jan-Feb; 30(1):1–2 **(Ger)**

[A bio-psychosocial treatment concept improves coping with illness by geriatric patients] Schmeling-Kludas C. **Z Gerontol Geriatr** 1997 May-Jun;30(3):242–7 (Eng. Abstr.) **(Ger)**

[Depressive mood and cognitive impairment in results of old age nursing homes] Schumacher J, et al. **Z Gerontol Geriatr** 1997 Jan-Feb;30(1):46–53 (Eng. Abstr.) **(Ger)**

[Typology of illness in aging--consequences for prevention concepts] Walter U, et al. **Z Gerontol Geriatr** 1997 Jan-Feb; 30(1):10–7 (Eng. Abstr.) **(Ger)**

[Improvements in mental and physical status of elderly patients with dementia after institutionalization--assessment with a minimum data set] Sakai Y, et al. **Nippon Ronen Igakkai Zasshi** 1997 May; 34(5):395–401 (Eng. Abstr.) **(Jpn)**

[Development of comprehensive assessment system for elderly patients in a geriatric hospital] Yamanaka T, et al. **Nippon Ronen Igakkai Zasshi** 1997 Apr;34(4):278–84 (Eng. Abstr.) **(Jpn)**

[Hospitalization in the elderly patient: a risk or benefit?] Duclos J, et al. **Rev Med Chil** 1995 Dec;123(12):1484–8 (Eng. Abstr.) **(Spa)**

[Pilot experience with the use of an ambulatory geriatric assessment instrument] Marín PP, et al. **Rev Med Chil** 1996 Jun;124(6):701–6 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

Assessing the impact of comorbidity in the older population. Guralnik JM. **Ann Epidemiol** 1996 Sep;6(5):376–80

[Daily activities--differences and similarities in the concept between gerontology and nursing care] Brandenburg H, et al. **Z Gerontol Geriatr** 1996 Nov-Dec;29(6):387–96 (Eng. Abstr.) **(Ger)**

STATISTICS & NUMERICAL DATA

Episodic memory deficit in elderly adults with suspected delusional disorder. Herlitz A, et al. **Acta Psychiatr Scand** 1996 May;93(5):355–61

Morbidity and disability in elderly Zimbabweans. Allain TJ, et al. **Age Ageing** 1997 Mar;26(2):115–21

Activities of daily living: changes in functional ability in three samples of elderly and very elderly people. Bowling A, et al. **Age Ageing** 1997 Mar;26(2):107–14

Autonomy for elderly people in long-term care. Brocklehurst J, et al. **Age Ageing** 1996 Jul;25(4):329–32

The risks of hip fracture in older people from private homes and institutions. Butler M, et al. **Age Ageing** 1996 Sep; 25(5):381–5

A pilot study of the introduction of audit into nursing homes. Chambers R, et al. **Age Ageing** 1996 Nov;25(6):465–9

Assessment of well-being [letter; comment] Collas DM, et al. **Age Ageing** 1997 May;26(3):239–40. Comment on: Age Ageing 1995 Sep;24(5):416–20.

Falls presenting to the accident and emergency department: types of presentation and risk factor profile. Davies AJ, et al. **Age Ageing** 1996 Sep;25(5):362–6

Translation of clinical and neuropsychological instruments into French: the CERAD experience. Demers P, et al. **Age Ageing** 1994 Nov;23(6):449–51

A hospital survey of the care of elderly patients with diabetes mellitus. Fletcher AK, et al. **Age Ageing** 1996 Sep; 25(5):349–52

The development of a care-giving burden scale. Gerritsen JC, et al. **Age Ageing** 1994 Nov;23(6):483–91

Evaluation of a clinical score for prognostic stratification of elderly stroke patients. Kalra L, et al. **Age Ageing** 1994 Nov;23(6):492–8

Factors affecting contrasting results between self-reported and performance-based levels of physical limitation. Kempen GI, et al. **Age Ageing** 1996 Nov;25(6):458–64

No way out: the delayed discharge of elderly mentally ill acute and assessment patients in north and south Thames regions [see comments] Koffman J, et al. **Age Ageing** 1996 Jul;25(4):268–72. Comment in: Age Ageing 1997 May;26(3):237.

Predicting disability in stroke--a critical review of the literature. Kwakkel G, et al. **Age Ageing** 1996 Nov; 25(6):479–89 (149 ref.)

Does education level determine the course of cognitive decline? Leibovici D, et al. **Age Ageing** 1996 Sep; 25(5):392–7

Health status and disability among elderly people in three UK districts. Lyons RA, et al. **Age Ageing** 1997 May; 26(3):203–9

The performance of simple instruments in detecting geriatric conditions and selecting community-dwelling older people for geriatric assessment. Maly RC, et al. **Age Ageing** 1997 May;26(3):223–31

The outcome of prolonged mechanical ventilation in elderly patients: are the efforts worthwhile? [see comments] Meinders AJ, et al. **Age Ageing** 1996 Sep;25(5):353–6. Comment in: Age Ageing 1997 May;26(3):238.

New evidence on benzodiazepine use and falls: the time factor. Neutel CI, et al. **Age Ageing** 1996 Jul;25(4):273–8

Dispersion measures in biomedical research on ageing: nuances in the meaning of variability. Olde Rikkert MG, et al. **Age Ageing** 1997 Jan;26(1):45–52

Reported activities of daily living: agreement between elderly subjects with and without dementia and their caregivers. Ostbye T, et al. **Age Ageing** 1997 Mar;26(2):99–106

A mental-functional risk score for prediction of hip fracture. Ranstam J, et al. **Age Ageing** 1996 Nov;25(6):439–42

More about similarities between Geriatric Depression and Well-Being Scales [letter; comment] Sanchez del Corral F, et al. **Age Ageing** 1996 Sep;25(5):413–4. Comment on: Age Ageing 1995 Sep;24(5):416–20.

Protocols to demonstrate slowing of Alzheimer disease progression. Position paper from the International Working Group on Harmonization of Dementia Drug Guidelines. The Disease Progression Sub-Group. Bodick N, et al. **Alzheimer Dis Assoc Disord** 1997;11 Suppl 3:50–3

Objective psychometric tests in clinical trials of dementia drugs. Position paper from the International Working Group on Harmonization of Dementia Drug Guidelines. Ferris SH, et al. **Alzheimer Dis Assoc Disord** 1997;11 Suppl 3:34–8

Methods of screening for dementia: a meta-analysis of studies comparing an informant questionnaire with a brief cognitive test. Jorm AF. **Alzheimer Dis Assoc Disord** 1997 Sep;11(3):158–62

Problems found in the over-75s by the annual health check. Brown K, et al. **Br J Gen Pract** 1997 Jan;47(414):31–5

Mental disorder in an elderly home care population: associations with health and social service use. Banerjee S, et al. **Br J Psychiatry** 1996 Jun;168(6):750–6

Data linkages for research on outcomes of long-term care. Lipowski EE, et al. **Gerontologist** 1996 Aug;36(4):441–7

Functional limitation pathways and transitions in community-dwelling older persons. Rudberg MA, et al. **Gerontologist** 1996 Aug;36(4):430–40

A study of aged population and associated health risks in rural India. Yadava KN, et al. **Int J Aging Hum Dev** 1997; 44(4):293–315

The predictive value of dementia screening instruments in clinical populations. Flicker L, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):203–9

Profiling the care needs of the population with dementia: a survey in central Scotland. Gordon DS, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):753–9

Outcome of delirium: part 2. Clinical features of reversible cognitive dysfunction--are they the same as accepted definitions of delirium? Treloar AJ, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):614–8

The Empirical Behavioral Pathology in Alzheimer's Disease (E-BEHAVE-AD) Rating Scale. Auer SR, et al. **Int Psychogeriatr** 1996 Summer;8(2):247–66

Reliability of the Modified Ordinal Scales of Psychological Development: a cognitive assessment battery for severe dementia. Auer SR, et al. **Int Psychogeriatr** 1996 Summer; 8(2):225–31

The Hierarchic Dementia Scale: usage. Bickel H. **Int Psychogeriatr** 1996 Summer;8(2):213–24

Assessment of agitation. Cohen-Mansfield J. **Int Psychogeriatr** 1996 Summer;8(2):233–45 (26 ref.)

The Hierarchic Dementia Scale: conceptualization. Cole MG, et al. **Int Psychogeriatr** 1996 Summer;8(2):205–12 (32 ref.)

Effect of elective surgery under general anesthesia on mental status variables in elderly women and men: 10-month follow-up. Goldstein MZ, et al. **Int Psychogeriatr** 1996 Spring;8(1):135–49

Chronic obstructive pulmonary disease and cognitive impairment in the elderly. Isoaho R, et al. **Int Psychogeriatr** 1996 Spring;8(1):113–25

A short DSM-III-R-based diagnostic instrument for screening mental disorders in geriatric institutions. Isohanni M, et al. **Int Psychogeriatr** 1996 Fall;8(3):459–68

The Mini-Mental State Examination in Alzheimer's disease and multi-infarct dementia. Magni E, et al. **Int Psychogeriatr** 1996 Spring;8(1):127–34

The Alzheimer's Disease Assessment Scale. Mohs RC. **Int Psychogeriatr** 1996 Summer;8(2):195–203 (21 ref.)

The Geriatric Depression Scale: a review of its development and utility. Montorio I, et al. **Int Psychogeriatr** 1996 Spring; 8(1):103–12 (50 ref.)

Clinical global impressions in Alzheimer's clinical trials. Schneider LS, et al. **Int Psychogeriatr** 1996 Summer; 8(2):277–88; discussion 288–90 (17 ref.)

Assessment of functional fitness among independent older adults: a preliminary report. Netz Y, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):1059–74

Population review: (5). The population aged 60 and over. Grundy EM. **Popul Trends** 1996 Summer;(84):14–20

High utilization of inpatient psychiatric services by older adults. Semke J, et al. **Psychiatr Serv** 1997 Feb;48(2):172–4, 176

A comparison of suicidal and nonsuicidal elders referred to a community mental health center program. Florio ER, et al. **Suicide Life Threat Behav** 1997 Summer;27(2):182–93

[Incidence of pain in elderly patients. A questionnaire survey of healthy members of a senior citizen meeting] Breidung R. **Fortschr Med** 1996 May 10;114(13):153–6 (Eng. Abstr.) **(Ger)**

[Need for nursing care by the elderly: results of a population based retrospective longitudinal study] Bickel H. **Gesundheitswesen** 1996 Jul;58(1 Suppl):56–62 (Eng. Abstr.) **(Ger)**

GERIATRIC ASSESSMENT

[Risk factors, preoperative delay and mortality in surgical gerontologic interventions] Steinau G, et al. **Langenbecks Arch Chir** 1996;381(4):228–31 (Eng. Abstr.) **(Ger)**

[The preventive home visit--possibilities for geriatric preventive care] Gerber-Glur E, et al. **Ther Umsch** 1997 Jun;54(6):303–8 (13 ref.) (Eng. Abstr.) **(Ger)**

[Assessment of need for nursing care] Gilgen R. **Ther Umsch** 1997 Jun;54(6):351–5 (18 ref.) (Eng. Abstr.) **(Ger)**

[Malnutrition in the elderly: the Mini Nutritional Assessment (MNA)] Guigoz Y, et al. **Ther Umsch** 1997 Jun;54(6):345–50 (27 ref.) (Eng. Abstr.) **(Ger)**

[Emotionality, age and aging--research perspectives, methodological approaches and empirical results] Kruse A, et al. **Ther Umsch** 1997 Jun;54(6):326–36 (43 ref.) (Eng. Abstr.) **(Ger)**

[Assessment of the quality of life] Meier D. **Ther Umsch** 1997 Jun;54(6):321–5 (Eng. Abstr.) **(Ger)**

[Goals in rehabilitation: assessment and outcome evaluation] Meier-Baumgartner HP, et al. **Ther Umsch** 1997 Jun; 54(6):337–9 (22 ref.) (Eng. Abstr.) **(Ger)**

[Patient assessment in suspected dementia] Nehen HG. **Ther Umsch** 1997 Jun;54(6):309–13 (Eng. Abstr.) **(Ger)**

[Assessment of chronic pain in elderly patients] Nikolaus T. **Ther Umsch** 1997 Jun;54(6):340–4 (56 ref.) (Eng. Abstr.) **(Ger)**

[Functional disability in the elderly: epidemiologic aspects] Pientka L. **Ther Umsch** 1997 Jun;54(6):298–302 (Eng. Abstr.) **(Ger)**

[Significance of impartial assessment of geriatric brain diseases] Spiegel R. **Ther Umsch** 1997 Jun;54(6):314–20 (15 ref.) (Eng. Abstr.) **(Ger)**

[Sleep complaints and hypnotic use by the elderly--results of a representative survey in West Germany] Simen S, et al. **Wien Med Wochenschr** 1996;146(13–14):306–9 (Eng. Abstr.) **(Ger)**

[Geriatric assessment--the Vienna model] Sommeregger U, et al. **Z Gerontol Geriatr** 1997 May-Jun;30(3):235–41 (Eng. Abstr.) **(Ger)**

GERIATRIC DENTISTRY

see related
DENTAL CARE FOR AGED

[The systemic problems in the dental treatment of the elderly patients] Matsuura H. **Nippon Ronen Igakkai Zasshi** 1996 Jul;33(7):505–7 (0 ref.) **(Jpn)**

EDUCATION

Geriatric dentistry at the crossroads. Berkey DB. **J Dent Educ** 1996 Dec;60(12):939–42

GERIATRIC HEALTH SERVICES see **HEALTH SERVICES FOR THE AGED**

GERIATRIC NURSING

For all the Dorothys. Wisner CL. **Am J Nurs** 1996 Nov; 96(11):54

General anesthesia and elderly surgical patients. Hazen SE, et al. **AORN J** 1997 Apr;65(4):815–9, 821–2

The challenges of nursing elderly surgical patients. Lusis SA. **AORN J** 1996 Dec;64(6):954–62

Internet resources on aging: geriatrics, gerontological nursing, and related topics. Post JA. **Gerontologist** 1997 Apr;37(2):258–66

Motivation in geriatric rehabilitation. Resnick B. **Image J Nurs Sch** 1996 Spring;28(1):41–5

The institutionalized elderly: dry to the bone! Armstrong-Esther CA, et al. **Int J Nurs Stud** 1996 Dec; 33(6):619–28

The role of communication in nursing care for elderly people: a review of the literature. Caris-Verhallen WM, et al. **J Adv Nurs** 1997 May;25(5):915–33 (76 ref.)

Physical restraints in geriatric care in Sweden: prevalence and patient characteristics. Karlsson S, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1348–54

Does home health care affect strain and depressive symptomatology for caregivers of impaired older adults? Schwarz KA, et al. **J Community Health Nurs** 1997; 14(1):39–48

[Early geriatric intervention. Consequences of reduced length of stay in a geriatric department] Danbaek L, et al. **Ugeskr Laeger** 1997 Jan 13;159(3):302–5 (Eng. Abstr.) **(Dan)**

[The Gordian knot (editorial)] Hjort Sørensen KD. **Ugeskr Laeger** 1997 Jan 6;159(2):153 **(Dan)**

[The Gordian knot (letter)] Vennervald K. **Ugeskr Laeger** 1997 Mar 24;159(13):1959–60 **(Dan)**

[Daily activities--differences and similarities in the concept between gerontology and nursing care] Brandenburg H, et al. **Z Gerontol Geriatr** 1996 Nov-Dec;29(6):387–96 (Eng. Abstr.) **(Ger)**

[Prevalence rate, place of hospitalization and source of referral of complex nursing care patients in geriatric hospitalization] Bentur N, et al. **Harefuah** 1997 Apr 15; 132(8):539–44, 608, 607 (Eng. Abstr.) **(Heb)**

[A downbeat reality of the Adel-reform. Shortage of physicians is the greatest problem. Increased responsibility of the MAS-nurses] Nordin E. **Lakartidningen** 1997 Feb 26;94(9):691–3, 699–700 **(Swe)**

EDUCATION

Values in health care professional socialization: implications for geriatric education in interdisciplinary teamwork. Clark PG. **Gerontologist** 1997 Aug;37(4):441–51 (80 ref.)

Baccalaureate student gerontological nursing experiences: raising consciousness levels and affecting attitudes. Fox SD, et al. **J Nurs Educ** 1996 Nov;35(8):348–55

The Teaching Nursing Home Program: enduring educational outcomes. Mezey MD, et al. **Nurs Outlook** 1997 May-Jun; 45(3):133–40

[Barriers in implementing innovative nursing research concepts. Results of a study] Adolph H, et al. **Z Gerontol Geriatr** 1997 Mar-Apr;30(2):100–8 (Eng. Abstr.) **(Ger)**

[Graduate and continuing education as a contribution to quality assurance in geriatric nursing--results of an empirical study on the current status and the need for change] Kühnert S, et al. **Z Gerontol Geriatr** 1997 Mar-Apr;30(2):109–15 (Eng. Abstr.) **(Ger)**

MANPOWER

[Current personnel status and qualification requirements in nursing care] Kühnert S, et al. **Z Gerontol Geriatr** 1996 Nov-Dec;29(6):411–7 (7 ref.) (Eng. Abstr.) **(Ger)**

METHODS

Evaluation of a clinical intervention for wanderers on a geriatric nursing unit. Holmberg SK. **Arch Psychiatr Nurs** 1997 Feb;11(1):21–8

Promoting autonomy and independence for older people within nursing practice: a literature review. Davies S, et al. **J Adv Nurs** 1997 Aug;26(2):408–17 (89 ref.)

"As a young girl, I... " the benefits of narrational relationships in the lives of older residents. Hirst SP, et al. **J Psychosoc Nurs Ment Health Serv** 1997 May;35(5):40–3

'Talk to me' patient communication in a long-term care facility. Morse JM, et al. **J Psychosoc Nurs Ment Health Serv** 1997 May;35(5):34–9

ORGANIZATION & ADMINISTRATION

Taking charge. The role of nursing administrators in removing restraints. Dunbar JM, et al. **J Nurs Adm** 1997 Mar;27(3):42–8

STANDARDS

The process of care in preventive in-home comprehensive geriatric assessment. Alessi CA, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1044–50

TRENDS

[Professionalization of nursing care for elderly persons] Entzian H, et al. **Z Gerontol Geriatr** 1996 Nov-Dec; 29(6):404–10 (8 ref.) (Eng. Abstr.) **(Ger)**

[Nursing research in geriatric nursing. A study of the literature based on 2 scientific specialty periodicals] Flügel K. **Z Gerontol Geriatr** 1996 Nov-Dec;29(6):397–403 (11 ref.) (Eng. Abstr.) **(Ger)**

[Nursing care and gerontology (editorial)] Klie T, et al. **Z Gerontol Geriatr** 1996 Nov-Dec;29(6):385–6 **(Ger)**

[Where does geriatric care go? (letter)] Bøhmer T. **Tidsskr Nor Laegeforen** 1997 Apr 30;117(11):1646–7 **(Nor)**

GERIATRIC PSYCHIATRY

Psychiatry of old age is coming of age [editorial] Jeste DV. **Am J Psychiatry** 1997 Oct;154(10):1356–8

Psychiatry of the elderly. Consensus statement: WHO and the Geriatric Psychiatry Section of the World Psychiatric Association. **Eur Arch Psychiatry Clin Neurosci** 1996; 246(6):329–32 (0 ref.)

Current awareness in geriatric psychiatry. **Int J Geriatr Psychiatry** 1997 Apr;12(4):497–504

Current awareness in geriatric psychiatry. **Int J Geriatr Psychiatry** 1997 Jul;12(7):777–84

Current awareness in geriatric psychiatry. **Int J Geriatr Psychiatry** 1997 Jan;12(1):135–42

Current awareness in geriatric psychiatry. **Int J Geriatr Psychiatry** 1997 Jun;12(6):683–90

Current awareness in geriatric psychiatry. **Int J Geriatr Psychiatry** 1997 Mar;12(3):415–22

Psychiatric morbidity among the elderly in a primary care setting--report from a survey in São Paulo, Brazil. Almeida OP, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):728–36

Does hospital admission affect dependency levels of elderly psychiatric patients? Brackenridge P, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):750–2

Tolerability of clonazepam in demented and non-demented geropsychiatric patients. Calkin PA, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):745–9

The practice of geriatric psychiatry in three countries: observations of an American in the British Isles. Reifler BV. **Int J Geriatr Psychiatry** 1997 Aug;12(8):795–807

Psychogeriatric inpatient suicides in Australia. Shah A, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):15–9

Geriatric psychiatry down under--a personal view. Swann AG. **Int J Geriatr Psychiatry** 1997 Feb;12(2):267–9

Education in geriatric psychiatry. Arie T, et al. **Isr J Psychiatry Relat Sci** 1997;34(2):87–93

Physical, social, and spiritual depression in old age: our last identity crisis. Johnson CG, et al. **J Med Assoc Ga** 1997 Apr;86(2):109–14

Lessons from geriatric psychiatry in the long-term care setting. Streim JE, et al. **Psychiatr Q** 1997 Fall; 68(3):281–307 (84 ref.)

Maximizing abilities: occupational therapy's role in geriatric psychiatry. Atler K, et al. **Psychiatr Serv** 1996 Sep; 47(9):933–5

Barriers to effective psychiatric emergency services for elderly persons. Colenda CC, et al. **Psychiatr Serv** 1997 Mar;48(3):321–5

[Quality assurance in the Psychogeriatric Day Hospital of Lausanne: the admission procedures] de Mendonca Lima CA, et al. **Rev Med Suisse Romande** 1997 Jun;117(6):519–24 **(Fre)**

[3rd Gerontopsychiatric Specialty Conference in Dusseldorf] Haupt M. **Fortschr Neurol Psychiatr** 1996 Jul;64(7):278–9 **(Ger)**

[The concept of therapeutic use of Paroxetin proves to be successful in clinical practice] **Nervenarzt** 1995 Mar;66(3 Suppl):1–8 **(Ger)**

[Clinical issues in gerontopsychiatry] Nishimura T. **Nippon Ronen Igakkai Zasshi** 1996 Jul;33(7):503–4 (0 ref.) **(Jpn)**

[The PG-clinic in Lund concentrates on dementia, confusion and behavioral disturbances] Lanesjö E. **Lakartidningen** 1996 Oct 23;93(43):3758–60, 3763–4 **(Swe)**

[Great progress in geriatric medicine. But still balancing between over-and under-diagnosing] Steen B. **Lakartidningen** 1997 Apr 30;94(18):1693–4 **(Swe)**

ECONOMICS

A comparison of older longstay psychiatric and learning disability inpatients using the Health of the Nation Outcome Scales. Ashaye O, et al. **Int J Geriatr Psychiatry** 1997 May;12(5):548–52

Clinicoeconomics in geropsychiatry. Burke MJ. **Psychiatr Clin North Am** 1997 Mar;20(1):219–40 (65 ref.)

EDUCATION

The first Summer Research Institute in Geriatric Psychiatry. Halpain MC, et al. **Am J Geriatr Psychiatry** 1997 Summer; 5(3):238–46

Current advances in Alzheimer's disease. A medical model paradigm for psychiatric education. Rubin EH. **Psychiatr Clin North Am** 1997 Mar;20(1):77–89 (34 ref.)

[Progress in psychogerontology at German universities] Fleischmann UM. **Z Gerontol Geriatr** 1997 Mar-Apr; 30(2):116–22 (Eng. Abstr.) **(Ger)**

[Medical graduate and continuing education in gerontopsychiatry and psychotherapy] Hirsch RD. **Z Gerontol Geriatr** 1997 Mar-Apr;30(2):89–93 (Eng. Abstr.) **(Ger)**

HISTORY

Tribute to Elaine Murphy. **Int J Geriatr Psychiatry** 1997 Apr; 12(4):423–9

History of geriatric psychiatry in Israel. Tropper MS. **Isr J Psychiatry Relat Sci** 1997;34(2):94–7

METHODS

Depression in the context of late-life transitions. Vergare MJ. **Bull Menninger Clin** 1997 Spring;61(2):240–8

A roving clinic for residential homes [letter] **Int J Geriatr Psychiatry** 1997 Jun;12(6):682

Differentiating between demented and psychiatric patients with the Dutch version of the IQCODE. de Jonghe JF. **Int J Geriatr Psychiatry** 1997 Apr;12(4):462–5

A comparison of the clock drawing test and the Pfeiffer Short Portable Mental Status Questionnaire in a geropsychiatry clinic. Gruber NP, et al. **Int J Geriatr Psychiatry** 1997 May; 12(5):526–32

Clock drawing test in elderly schizophrenia patients. Heinik J, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):653–5

Factor structure of the Hamilton Rating Scale for Depression in a cohort of community-dwelling elderly. Onega LL, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):760–4

Characteristics of elderly psychiatric patients retained in a state hospital during downsizing: a prospective study with replication. White L, et al. **Int J Geriatr Psychiatry** 1997 Apr;12(4):474–80

Successful coping, adaptation and resilience in the elderly: an interpretation of epidemiologic data. Foster JR. **Psychiatr Q** 1997 Fall;68(3):189–219 (96 ref.)

Geriatric psychosis. Lacro JP, et al. **Psychiatr Q** 1997 Fall; 68(3):247–60 (45 ref.)

Treatment of major depression in later life: a life cycle perspective. Reynolds CF 3rd. **Psychiatr Q** 1997 Fall; 68(3):221–46 (66 ref.)

ORGANIZATION & ADMINISTRATION

The everyday work of geriatric psychiatrists. Jolley DJ, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):109–13

Effectiveness of group anxiety management with elderly clients of a community psychogeriatric team. Radley M, et al. **Int J Geriatr Psychiatry** 1997 Jan;12(1):79–84

Geriatric psychiatry at the interface of consultation-liaison psychiatry and primary care. Oxman TE. **Int J Psychiatry Med** 1996;26(2):145–53

STANDARDS

OBRA regulations and the use of psychotropic drugs in long-term care facilities: impact and implications for geropsychiatric care. Stoudemire A, et al. **Gen Hosp Psychiatry** 1996 Mar;18(2):77-94 (138 ref.)

Mental health care for the elderly [editorial] Sartorius N. **Int J Geriatr Psychiatry** 1997 Apr;12(4):430-1

NHS and Community Care Act 1990 and discharge of psychogeriatric inpatients [letter] Shah A, et al. **Int J Geriatr Psychiatry** 1997 May;12(5):587

Psychiatry of the elderly: a consensus statement [editorial] Wertheimer J. **Int J Geriatr Psychiatry** 1997 Apr; 12(4):432-5 (0 ref.)

STATISTICS & NUMERICAL DATA

Geropsychiatric consultation for African-American and Caucasian patients. Leo RJ, et al. **Gen Hosp Psychiatry** 1997 May;19(3):216-22

Elder abuse in people with dementia in Northern Ireland: Prevalence and predictors in cases referred to a psychiatry of old age service. Compton SA, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):632-5

An Australian registrar's experience of a psychogeriatric service in London. Kirby D. **Int J Geriatr Psychiatry** 1997 Feb;12(2):261-2

A British psychogeriatrician's experience in Australia. Shah A. **Int J Geriatr Psychiatry** 1997 Feb;12(2):263-6

Neuroleptic prescribing to the community elderly in Nottingham. Thacker S, et al. **Int J Geriatr Psychiatry** 1997 Aug;12(8):833-7

TRENDS

Geriatric psychiatry in Australia [editorial] Ames D. **Int J Geriatr Psychiatry** 1997 Feb;12(2):143-4

An Australian occupational therapist's impression of work in a London psychogeriatric service. Moffatt F. **Int J Geriatr Psychiatry** 1997 Feb;12(2):259-60

Geriatric psychiatry. What's new about the old. Introduction. Martin RL. **Psychiatr Clin North Am** 1997 Mar;20(1):xi-xiii

Geriatric psychiatry in primary care. A focus on ambulatory settings. Woolley DC. **Psychiatr Clin North Am** 1997 Mar; 20(1):241-60 (98 ref.)

Telemedicine and geriatric psychiatry. Jones BN 3rd, et al. **Psychiatr Serv** 1997 Jun;48(6):783-5

GERIATRICS

see related
AGED

British Geriatrics Society, autumn meeting. London, 13-14 October 1995. Abstracts. **Age Ageing** 1996;25 Suppl 1:P3-48

Factors related to length of stay in a geriatric evaluation and rehabilitation unit. Bertozzi B, et al. **Aging (Milano)** 1996 Jun;8(3):170-5

Factors influencing subject willingness to participate in clinical gerontologic research. Rosenberg R, et al. **Aging (Milano)** 1996 Dec;8(6):400-8

Depression in geriatric ED patients: prevalence and recognition. Meldon SW, et al. **Ann Emerg Med** 1997 Aug; 30(2):141-5

Update in geriatrics. Hall WJ. **Ann Intern Med** 1997 Oct 1;127(7):557-64 (13 ref.)

Childproof caps, revisited [letter] [see comments] Sutherland L. **Can Med Assoc J** 1996 Dec 1;155(11):1550. Comment in: Can Med Assoc J 1997 May 1;156(9):1268-9.

An agenda for clinical research in geriatrics. Cohen HJ. **Cancer** 1997 Oct 1;80(7):1294-301

Aging and gerontology: a paradigm of transdisciplinary research. Crews DE. **Coll Antropol** 1997 Jun;21(1):83-92

Construction and practice of medical responsibility: dilemmas and narratives from geriatrics. Kaufman SR. **Cult Med Psychiatry** 1997 Mar;21(1):1-26

Brain imaging and psychogeriatric services in geriatric psychiatry. Proceedings of the 23rd Symposium of the European Association of Geriatric Psychiatry. Lund, Sweden, October 6-7, 1995. **Dement Geriatr Cogn Disord** 1997 Mar-Apr;8(2):61-145

Dehydroepiandrosterone and diseases of aging. Watson RR, et al. **Drugs Aging** 1996 Oct;9(4):274-91 (141 ref.)

Proceedings of the 2nd International Conference on Animal Models for Aging Research. Kyoto, Japan, May 12-19, 1995. **Exp Gerontol** 1997 Jan-Apr;32(1-2):1-242

Experimental design and husbandry. Festing MF. **Exp Gerontol** 1997 Jan-Apr;32(1-2):39-47 (19 ref.)

Biogerontologic theories. McClearn GE. **Exp Gerontol** 1997 Jan-Apr;32(1-2):3-10 (25 ref.)

Prospects for quantitative trait locus methodology in gerontology. McClearn GE. **Exp Gerontol** 1997 Jan-Apr; 32(1-2):49-54 (14 ref.)

Using a retreat to build student interest in the elderly [letter] Lorraine V, et al. **Fam Med** 1996 Mar;28(3):167-8

Managed care: new challenges, new roles for the primary care physician. 2. Butler RN, et al. **Geriatrics** 1996 Nov; 51(11):35-6, 39-41, 45-6

Weight control and nutrition: knowing when to intervene [see comments] Salom IL. **Geriatrics** 1997 Jan;52(1):33-4, 39-41; quiz 42. Comment in: Geriatrics 1997 Apr;52(4):20; discussion 20,25.

Rheumatic disease: choosing the most useful diagnostic tests. Shmerling RH. **Geriatrics** 1996 Nov;51(11):22-6, 29-30, 32

49th annual scientific meeting of the Gerontological Society of America. Washington, D.C., November 17-21, 1996. Abstracts. **Gerontologist** 1996 Oct;36 Spec No 1:1-413

Progress and pitfalls in gerontological theorizing. Bengtson VL, et al. **Gerontologist** 1996 Dec;36(6):768-72

Internet resources on aging: geriatrics, gerontological nursing, and related topics. Post JA. **Gerontologist** 1997 Apr;37(2):258-66

A postmodern perspective on feminist gerontology. Ray RE. **Gerontologist** 1996 Oct;36(5):674-80 (64 ref.)

Patterns of geriatric orthopaedic liaison in Scotland. Hicks KA, et al. **Health Bull (Edinb)** 1996 Jan;54(1):10-2

Does a chest x-ray alter the management of new patients attending a geriatric day hospital? Logan JA, et al. **Health Bull (Edinb)** 1997 Jan;55(1):52-7

Adult immunizations: how are we doing? Eickhoff TC. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):107-8, 111-2, 115-7, passim (12 ref.)

Assessing competing risks in treating the elderly. Welch HG, et al. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):155-6, 158-9, 162, passim

Epidemiological research on ageing: an orientation. Miettenen OS. **Int J Epidemiol** 1991;20 Suppl 1:S2-7

The elderly in a period of transition in Sofia [letter] Petrov I, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):773-4

Alcoholism in a geriatric outpatient clinic of São Paulo-Brazil. Hirata ES, et al. **Int Psychogeriatr** 1997 Mar; 9(1):95-103

Irish Association of Gastroenterology, Irish Gerontological Society, Irish Thoracic Society, Irish Endocrine Society annual meetings. 1994, 1995, 1996. Abstracts. **Ir J Med Sci** 1996 Jul-Sep;165 Suppl 4:1-93

Geriatrics in managed care: a call for papers [editorial] Brummel-Smith K. **J Am Geriatr Soc** 1997 Sep; 45(9):1150-1

America's best geriatric hospitals? [letter] Brymer C, et al. **J Am Geriatr Soc** 1997 Apr;45(4):531

Outcomes of delirium: can systems of care make a difference? [editorial; comment] Francis J. **J Am Geriatr Soc** 1997 Feb; 45(2):247-8. Comment on: J Am Geriatr Soc 1997 Feb;45(2):174-8.

A geriatric consultation team in the emergency department. Gold S, et al. **J Am Geriatr Soc** 1997 Jun;45(6):764-7

Functional outcome of cognitively impaired hip fracture patients on a geriatric rehabilitation unit. Goldstein FC, et al. **J Am Geriatr Soc** 1997 Jan;45(1):35-42

Apolipoprotein E genotype: utility in clinical practice in Alzheimer's disease [see comments] Hyman BT. **J Am Geriatr Soc** 1996 Dec;44(12):1469-71. Comment in: J Am Geriatr Soc 1996 Dec;44(12):1479-81.

Mentoring in the growth and development of the geriatric fellow [letter] Johnson TM 2nd, et al. **J Am Geriatr Soc** 1996 Dec;44(12):1486-7

Walking the tightrope: the challenge of elder care. Meuleman JR. **J Am Geriatr Soc** 1996 Dec;44(12):1466-8

Diogenes syndrome: of omelettes and souffles [editorial; comment] Reifler BV. **J Am Geriatr Soc** 1996 Dec; 44(12):1484-5. Comment on: J Am Geriatr Soc 1996 Dec;44(12):1486.

A case of Diogenes syndrome [letter] [see comments] Reyes-Ortiz CA, et al. **J Am Geriatr Soc** 1996 Dec; 44(12):1486. Comment in: J Am Geriatr Soc 1996 Dec;44(12):1484-5.

The Cochrane Field in Health Care of Older People: geriatric medicine's role in the collaboration. Rochon PA, et al. **J Am Geriatr Soc** 1997 Feb;45(2):241-3

Tube feeding the demented nursing home resident [see comments] Sheiman SL. **J Am Geriatr Soc** 1996 Oct; 44(10):1268-70. Comment in: J Am Geriatr Soc 1996 Oct;44(10):1265-7.

Effects of an inpatient geriatrics rotation on internal medicine residents' knowledge and attitudes [see comments] Lindberg MC, et al. **J Gen Intern Med** 1996 Jul; 11(7):397-400. Comment in: J Gen Intern Med 1996 Jul;11(7):435-6. Comment in: J Gen Intern Med 1996 Dec;11(12):776.

Causes of death in geriatric patients: a cross-cultural study. Klima MP, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul; 52(4):M247-53

Theory, explanation, and a third generation of theoretical development in social gerontology. Bengtson VL, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar;52(2):S72-88 (154 ref.)

College report on neurological services. Future of general medicine [letter; comment] Richardson M. **J R Coll Physicians Lond** 1996 Jul-Aug;30(4):395. Comment on: J R Coll Physicians Lond 1996 May-Jun;30(3):198-201. Comment on: J R Coll Physicians Lond 1996 May-Jun;30(3):209-10.

The South Carolina Geriatric Rural Initiative Project: the paraprofessional geriatric technician in care coordination. Hornung CA, et al. **J S C Med Assoc** 1997 Jul;93(7):248-54

NHANES III health data relevant for aging nation [news] Marwick C. **JAMA** 1997 Jan 8;277(2):100-2

Geriatricians want better end-of-life care [news] Marwick C. **JAMA** 1997 Feb 12;277(6):445-6

Clinical crossroads: an 88-year-old woman facing the end of life [letter] Portnoi VA. **JAMA** 1997 Sep 24;278(12):977; discussion 978

Improving the use of advance directives. Stafford DT. **Md Med J** 1997 Jan;46(1):25-7

Geriatric substance use disorders. Reid MC, et al. **Med Clin North Am** 1997 Jul;81(4):999-1016 (104 ref.)

So what's different about geriatrics? Hazzard WR. **N C Med J** 1996 Nov-Dec;57(6):348-51

Integrative geriatrics. Combining traditional and alternative medicine. O'Brien ME. **N C Med J** 1996 Nov-Dec; 57(6):364-7

US Administration on Aging Symposium. Nutrition Research and the Elderly II: The Role of Nutrition in Long-Term Care. Washington, D.C., March 9-10, 1995. **Nutr Rev** 1996 Jan;54(1 Pt 2):S1-65

Risk factors for methicillin-resistant Staphylococcus aureus (MRSA) infection in a Japanese geriatric hospital. Washio M, et al. **Public Health** 1997 May;111(3):187-90

Geriatric medicine as a challenge to internists [editorial] Cassel C. **South Med J** 1997 Jul;90(7):762-4

Self-reported physical exertion in geriatric care. A risk indicator for low back symptoms? Josephson M, et al. **Spine** 1996 Dec 1;21(23):2781-5

5th Asia/Oceania Regional Congress of gerontology. November 19-23rd 1995. Sharma MP. **Trop Gastroenterol** 1995 Oct-Dec;16(4):34-7

Geriatrics: the effect of time in medicine. Bortz WM 2nd. **West J Med** 1997 May;166(5):313-8

[The Internet and geriatric medicine] Leibovitz A, et al. **Harefuah** 1997 Jun 15;132(12):852-5 (23 ref.) **(Heb)**

[General surgery in the octogenarian patient. One year's clinical experience] Bufalari A, et al. **Minerva Chir** 1996 Jun;51(6):383-8 (Eng. Abstr.) **(Ita)**

[Coagulase typing of Staphylococcus aureus in the geriatric wards after introduction of preventive measures of hospital infection] Masaki H, et al. **Kansenshogaku Zasshi** 1997 Mar; 71(3):229-35 (Eng. Abstr.) **(Jpn)**

[39th annual meeting of the Japan Geriatrics Society. Tokyo. June 18-20, 1997. Abstracts] **Nippon Ronen Igakkai Zasshi** 1997 May;34 Suppl:1-138 **(Jpn)**

[Isolation of methicillin-resistant Staphylococcus aureus on admission to a geriatric hospital] Honjo N, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb;34(2):147-50 (Eng. Abstr.) **(Jpn)**

[Malignant tumors in a Japanese geriatric hospital] Mori M, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb;34(2):130-4 (Eng. Abstr.) **(Jpn)**

[Positive aspects of geriatrics and gerontology [editorial] Lopes AC, et al. **Rev Assoc Med Bras** 1996 Jan-Mar;42(1):1 **(Por)**

[Aging and geriatric medicine] Morales-Virgen JJ. **Gac Med Mex** 1996 May-Jun;132(3):343-5 **(Spa)**

[Effectiveness and efficiency of hospital care provided to elderly patients with acute disease (letter; comment)] Baztán JJ, et al. **Med Clin (Barc)** 1996 Oct 5;107(11):437 . Comment on: Med Clin (Barc) 1996 Mar 9;106(9):336-43. **(Spa)**

[Interdisciplinary functional units of geriatrics at general hospitals. Function and analysis of their effectiveness (letter; comment)] Duró JC. **Med Clin (Barc)** 1996 Oct 12; 107(12):478-9. Comment on: Med Clin (Barc) 1996 Mar 9;106(9):336-43. **(Spa)**

[Respiratory interdisciplinary functional unit (letter; comment)] Escarrabill J, et al. **Med Clin (Barc)** 1996 Oct 5;107(11):438-9. Comment on: Med Clin (Barc) 1996 Mar 9;106(9):336-43. **(Spa)**

[Inappropriate hospital admission and stay according to the Appropriateness Evaluation Protocol. Study of point prevalence in a geriatric department (letter; comment)] Ochoa Calvo P, et al. **Med Clin (Barc)** 1997 Jun 28; 109(5):195. Comment on: Med Clin (Barc) 1996 Jun 22;107(4):124-9. **(Spa)**

[Another experience in favor of interdisciplinary functional geriatrics units at general hospitals (letter; comment)] Pujol R, et al. **Med Clin (Barc)** 1996 Oct 5;107(11):437-8. Comment on: Med Clin (Barc) 1996 Mar 9;106(9):336-43. **(Spa)**

[Great progress in geriatric medicine. But still balancing between over-and under-diagnosing] Steen B. **Lakartidningen** 1997 Apr 30;94(18):1693-4 **(Swe)**

ECONOMICS

Medicine in cyberspace [editorial; comment] Kane RL. **J Am Geriatr Soc** 1996 Dec;44(12):1477-8. Comment on: J Am Geriatr Soc 1996 Dec;44(12):1472-5.

EDUCATION

The development and evaluation of a geriatric emergency medicine curriculum. The SAEM Geriatric Emergency Medicine Task Force. Witzke DB, et al. **Acad Emerg Med** 1997 Mar;4(3):219-22

A progressive geriatrics curriculum [letter] Reyes-Ortiz CA, et al. **Acad Med** 1996 Nov;71(11):1140

The role of the physician in geriatric medicine in the ageing society. In training. James OF. **Age Ageing** 1994;23 Suppl 3:S43-5

Raising the level of medical gerontology: evaluation of the European Academy for Medicine of Ageing course. European Professors of Medical Gerontology. Michel JP. **Aging (Milano)** 1997 Jun;9(3):224-30

On bedside teaching [letter; comment] Powell C. **Ann Intern Med** 1997 Jul 15;127(2):172-3. Comment on: Ann Intern Med 1997 Feb 1;126(3):217-20.

Teaching home care to family medicine residents. Boillat M, et al. **Can Fam Physician** 1996 Feb;42:281-6

Medical oncology and geriatric medicine: is it time for

fellowship integration? Bennett JM, et al. **Cancer** 1997 Oct 1;80(7):1351–3
The Oncology Geriatric Education Retreat: commentary and conclusions. Cohen HJ. **Cancer** 1997 Oct 1;80(7):1354–6
Integrating geriatrics into the subspecialties of internal medicine: introduction. Hazzard WR, et al. **Cancer** 1997 Oct 1;80(7):1267–9
Aging and cancer: geriatric oncology—keynote address to the Integrating Geriatrics into Oncology Education. Kennedy BJ. **Cancer** 1997 Oct 1;80(7):1270–2
How to excel as a teacher of geriatrics [letter] Mulligan T. **Fam Med** 1996 May;28(5):318–9
How to excel as a teacher of geriatrics [letter] Reyes-Ortiz CA, et al. **Fam Med** 1996 Sep;28(8):534
Normal versus pathological aging: knowledge of family practice residents. Beall SC, et al. **Gerontologist** 1996 Feb; 36(1):113–7
Values in health care professional socialization: implications for geriatric education in interdisciplinary teamwork. Clark PG. **Gerontologist** 1997 Aug;37(4):441–51 (80 ref.)
Gero-informatics and the Internet: locating gerontology information on the World Wide Web (WWW). Ellis RD, et al. **Gerontologist** 1996 Feb;36(1):100–5
Social work education and the field of aging. Fahey CJ. **Gerontologist** 1996 Feb;36(1):36–41
Integrating geriatrics into cardiology training programs [editorial] Applegate WB, et al. **J Am Geriatr Soc** 1997 May;45(5):641–2
Just another uphill battle for the field of geriatrics [letter] Cefalu CA. **J Am Geriatr Soc** 1997 Aug;45(8):1029
A university-affiliated community hospital inpatient geriatrics program functioning in an administrative and educational capacity. Cefalu CA, et al. **J Am Geriatr Soc** 1997 Mar;45(3):355–60
Fellowship training [letter] Escher JE, et al. **J Am Geriatr Soc** 1997 Jan;45(1):118–9
Integrating geriatrics into the subspecialties of internal medicine: the Hartford Foundation/American Geriatrics Society/Wake Forest University Bowman Gray School of Medicine Initiative. Hazzard WR, et al. **J Am Geriatr Soc** 1997 May;45(5):638–40
The state of geriatrics training programs: findings from the National Study of Internal Medicine Manpower (NaSIMM). Lawlor EF, et al. **J Am Geriatr Soc** 1997 Jan; 45(1):108–11
The state of geriatrics training programs: findings from the National Study of Internal Medicine Manpower (NASIMM) by Edward F. Lawlor, Christopher S. Lyttle, and Elisse Moldwin [letter] Luchi RJ. **J Am Geriatr Soc** 1997 Sep;45(9):1153
A report card on geriatrics fellowship training programs [editorial] Reuben DB, et al. **J Am Geriatr Soc** 1997 Jan; 45(1):112–3
Geriatric education in osteopathic medical schools. Carlsen W, et al. **J Am Osteopath Assoc** 1996 Nov;96(11):705–6
Geriatric education in medical oncology. Kennedy BJ. **J Cancer Educ** 1996 Fall;11(3):128–9
The training of emergency medical technicians in geriatric emergency medicine [editorial; comment] Sanders AB. **J Emerg Med** 1996 Jul–Aug;14(4):499–500. Comment on: J Emerg Med 1996 Jul–Aug;14(4):439–44.
Teaching geriatrics to medical residents [letter; comment] Murden RA. **J Gen Intern Med** 1996 Dec;11(12):776. Comment on: J Gen Intern Med 1996 Jul;11(7):397–400. Comment on: J Gen Intern Med 1996 Jul;11(7):435–6.
Development and validation of a geriatrics knowledge test for primary care residents. Reuben DB, et al. **J Gen Intern Med** 1997 Jul;12(7):450–2
Effective learning of geriatric medicine. A challenge to clinical teachers [editorial; comment] [see comments] Skeff KM, et al. **J Gen Intern Med** 1996 Jul;11(7):435–6. Comment on: J Gen Intern Med 1996 Jul;11(7):397–400. Comment in: J Gen Intern Med 1996 Dec;11(12):776.
Continuing medical education on geriatric care through distance learning. Dutta PK. **J Indian Med Assoc** 1996 Mar; 94(3):111, 114
Journal serves as college resource [letter] Garrett R. **J Med Assoc Ga** 1997 Sep;86(3):169
Performance on the Facts on aging Quiz 2 by undergraduate and graduate students in communicative disorders. Pulliam S, et al. **Psychol Rep** 1996 Feb;78(1):66
A post-master's program in gerontological social work: fulfilling a practice need in health care. Eckert JW, et al. **Soc Work Health Care** 1996;24(1–2):137–52
[Medical education, graduate and continuing education of physicians in geriatrics in Germany—current status] Engelbrecht J. **Z Gerontol Geriatr** 1997 Mar–Apr; 30(2):85–8 (Eng. Abstr.) **(Ger)**
[Graduate and continuing education in gerontology (editorial)] Meier-Baumgartner HP. **Z Gerontol Geriatr** 1997 Mar–Apr;30(2):83–4 **(Ger)**
[Education and graduate education in geriatrics and gerontology: current status in Austria] Niedermüller H. **Z Gerontol Geriatr** 1997 Mar–Apr;30(2):94–9 (Eng. Abstr.) **(Ger)**
[Interdisciplinary education in geriatrics] Oster P, et al. **Z Gerontol Geriatr** 1997 Mar–Apr;30(2):127–9 (Eng. Abstr.) **(Ger)**
[University education in geriatrics: medical students' understandings of gerontology and geriatric medicine] Hakamata Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jun; 33(6):444–51 (Eng. Abstr.) **(Jpn)**
[University education in geriatrics: medical student's opinions on gerontology and geriatric medicine] Hakamata Y, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jun;33(6):452–9 (Eng. Abstr.) **(Jpn)**
[Geriatrics in the new program for initial postgraduate medical training in Japan] Inoue G, et al. **Nippon Ronen Igakkai Zasshi** 1997 Apr;34(4):292–7 (Eng. Abstr.) **(Jpn)**
[University education in geriatrics—present status and future prospects of gerontology and geriatrics education in pathology] Kanisawa M, et al. **Nippon Ronen Igakkai Zasshi** 1996 Sep;33(9):686–91 (Eng. Abstr.) **(Jpn)**
[Undergraduate teaching of geriatric medicine in western countries—literature review] Matsuse T, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jul;33(7):540–6 (Eng. Abstr.) **(Jpn)**
[Teaching geriatrics in undergraduate medical courses. Some questions (editorial)] Ribera Casado JM. **An Med Interna** 1995 Sep;12(9):417–9 **(Spa)**

HISTORY

In the past. The role of the physician in geriatric medicine in the ageing society. Williamson J. **Age Ageing** 1994;23 Suppl 3:S9–11
"Song of ourselves": a quantitative history of American autobiographies. Levin JS, et al. **Gerontologist** 1996 Aug; 36(4):448–53
The history of geriatric medicine in Canada. Hogan DB, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1134–9
Economic and political implications of immunology and aging on tomorrow's society. Butler RN. **Mech Ageing Dev** 1997 Feb;93(1–3):7–13
[Request for lectures on gerontology in 1843] Hlaváčková L. **Cas Lek Cesk** 1996 Oct 9;135(19):637–8 **(Cze)**

METHODS

No identifiable effect of ginseng (Gericomplex) as an adjuvant in the treatment of geriatric patients. Thommessen B, et al. **Aging (Milano)** 1996 Dec;8(6):417–20
Geriatric work-up in the Nordic countries. The Nordic approach to comprehensive geriatric assessment. Sletvold O, et al. **Dan Med Bull** 1996 Sep;43(4):350–9 (64 ref.)
Measuring human functional age: a review of empirical findings. Anstey KJ, et al. **Exp Aging Res** 1996 Jul–Sep; 22(3):245–66 (44 ref.)
What can gerontologists tell us about the choice of rat strain for toxicological research and screening? Festing MF. **Hum Exp Toxicol** 1996 Jul;15(7):602–4
Post-hospital sub-acute care: an example of a managed care model. von Sternberg T, et al. **J Am Geriatr Soc** 1997 Jan; 45(1):87–91
Do cognitive complaints either predict future cognitive decline or reflect past cognitive decline? A longitudinal study of an elderly community sample. Jorm AF, et al. **Psychol Med** 1997 Jan;27(1):91–8

ORGANIZATION & ADMINISTRATION

Is managed care good or bad for geriatric medicine? Lachs MS, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1123–7
[Care by the Geriatrics Unit of patients admitted to the Traumatology Unit (letter)] Reig Puig L, et al. **An Med Interna** 1996 Jun;13(6):305–6 **(Spa)**

STANDARDS

Medical care of older persons in nursing homes [editorial] Darzins A. **Aust Fam Physician** 1996 Feb;25(2):117
Some lessons learned in the care of the elderly. Smythe CM. **Epilepsia** 1997;38 Suppl 4:S50–4 (9 ref.)
Vitamin E supplements. Clinical practice is changing with new data on preventive care of older patients [editorial] Butler RN. **Geriatrics** 1997 Jul;52(7):7–8
Geriatric ethics: responsibilities and conspiracies. Ainslie N, et al. **Kans Med** 1996 Summer–Fall;97(2):24–5
[Diagnostic, therapeutic and socioeconomic problems in geriatric oncology] Jerusalem G, et al. **Rev Med Liege** 1997 Apr;52(4):255–7 (9 ref.) **(Fre)**

STATISTICS & NUMERICAL DATA

Performance comparison in geriatric medicine: a study in one department. Cottee M, et al. **IMA J Math Appl Med Biol** 1995 Sep–Dec;12(3–4):225–34
Geriatric-patient flow-rate modelling. Taylor G, et al. **IMA J Math Appl Med Biol** 1996 Dec;13(4):297–307
A survey of habitual snoring in centenarians. Shiomi T, et al. **J Am Geriatr Soc** 1997 Jan;45(1):84–6

TRENDS

The role of the physician in geriatric medicine in the ageing society. Introduction. Denham MJ, et al. **Age Ageing** 1994; 23 Suppl 3:S7–8
The role of the physician in geriatric medicine in the ageing society. In the future. Woodhouse KW, et al. **Age Ageing** 1994;23 Suppl 3:S46–8
The geriatrician in 1996—a viewpoint from Switzerland. Michel JP, et al. **Aging (Milano)** 1996 Apr;8(2):135–40 (32 ref.)
Geriatric medicine at the millennium [editorial] Steel K. **Aging (Milano)** 1996 Oct;8(5):295–6
Geriatric occupational therapy: the uncertain ideology of long-term care. Hasselkus BR, et al. **Am J Occup Ther** 1997 Feb;51(2):132–9
Decreasing disability in the 21st century: the future effects of controlling six fatal and nonfatal conditions. Boult C, et al. **Am J Public Health** 1996 Oct;86(10):1388–93
Changing patterns in the care of elderly people [editorial] Davies KN. **Br J Hosp Med** 1996 Oct 2–15;56(7):313–4
The Internet as an information source for geriatricians. Glowniak J. **Drugs Aging** 1997 Mar;10(3):169–73 (9 ref.)
Lost in the campaign rhetoric. Today's decisions on Social Security and Medicare will steer the era of longevity [editorial] Butler RN. **Geriatrics** 1996 Nov; 51(11):9–10
Geriatrics for orthopaedists. Brummel-Smith K. **Instr Course Lect** 1997;46:409–16 (39 ref.)
A population-based study on the incidence of dementia disorders between 85 and 88 years of age [see comments] Aevarsson O, et al. **J Am Geriatr Soc** 1996 Dec; 44(12):1455–60. Comment in: J Am Geriatr Soc 1996 Dec;44(12):1482–3.
The state of geriatrics training programs: findings from the National Study of Internal Medicine Manpower (NaSIMM). Lawlor EF, et al. **J Am Geriatr Soc** 1997 Jan; 45(1):108–11
Apolipoprotein E genotype: utility in clinical practice in Alzheimer's disease [editorial; comment] Roses AD, et al. **J Am Geriatr Soc** 1996 Dec;44(12):1479–81. Comment on: J Am Geriatr Soc 1996 Dec;44(12):1469–71.
Clinical geriatric psychopharmacology: drugs and neuropsychiatric symptoms. A clinical pharmacology problem solving unit. Smith CM. **J Clin Pharmacol** 1996 Aug;36(8):683–95
Geriatric medicine. Applegate WB, et al. **JAMA** 1997 Jun 18;277(23):1863–4
Geriatrics. The age of women. Rochon PA, et al. **Lancet** 1996 Dec 21–28;348 Suppl 2:sII8 (5 ref.)
Learning today to treat the elderly of tomorrow. McCollum C. **Wis Med J** 1996 Oct;95(10):684–5
[Geriatrics in The Netherlands. I. Development] Duursma SA, et al. **Ned Tijdschr Geneeskd** 1996 Nov 30; 140(48):2416–9 **(Dut)**
[Geriatrics in The Netherlands. II. Networks geriatrics] Duursma SE, et al. **Ned Tijdschr Geneeskd** 1996 Nov 30; 140(48):2420–3 **(Dut)**
[Past cure and care: The "geriatric's" of nursing home medicine (editorial)] Hertogh CM. **Tijdschr Gerontol Geriatr** 1997 Feb;28(1):3–4 **(Dut)**
[Globalization processes promote intercultural gerontology] Friebe J. **Z Gerontol Geriatr** 1996 Sep–Oct;29(5):372–4 (Eng. Abstr.) **(Ger)**
[Social work and social gerontology: gerontologic graduate and continuing education for social workers/social pedagogues] Karl F. **Z Gerontol Geriatr** 1997 Mar–Apr; 30(2):123–6 (Eng. Abstr.) **(Ger)**
[Use of clinical databanks with special reference to gerontologic-geriatric quality assurance] Thiesemann R, et al. **Z Gerontol Geriatr** 1997 Mar–Apr;30(2):156–62 (Eng. Abstr.) **(Ger)**
[An analysis of the trends and outlook for the development of neurogerontology] Burchinskiĭ SG. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(5):51–3 (Eng. Abstr.) **(Rus)**
[Present and future of geriatrics in Spain] Salgado Alba A. **An R Acad Nac Med (Madr)** 1996;113(2):431–8; discussion 438–42 **(Spa)**

GERM CELL TUMOR see **GERMINOMA**

GERM CELLS

Approximate variance of the standardized measure of gametic disequilibrium D' [letter] Zapata C, et al. **Am J Hum Genet** 1997 Sep;61(3):771–4
The germ line and development. Eddy EM. **Dev Genet** 1996; 19(4):287–9 (21 ref.)
Origin of primordial germ cells in the prestreak chick embryo. Karagenç L, et al. **Dev Genet** 1996;19(4):290–301
The C. elegans MEX-1 protein is present in germline blastomeres and is a P granule component. Guedes S, et al. **Development** 1997 Feb;124(3):731–9
Germ-line contribution of embryonic stem cells in chimeric mice: influence of karyotype and in vitro differentiation ability. Suzuki H, et al. **Exp Anim** 1997 Jan;46(1):17–23
Distinct requirements for somatic and germline expression of a generally expressed Caernorhabditis elegans gene. Kelly WG, et al. **Genetics** 1997 May;146(1):227–38
Germline gene therapy: its time is near. Fiddler M, et al. **Mol Hum Reprod** 1996 Feb;2(2):75–6
A genetic strategy for differential screening of meiotic germ-cell cDNA libraries. Caldwell KA, et al. **Mol Reprod Dev** 1996 Apr;43(4):403–13
A comparison of the germline potential of differently aged ES cell lines and their transfected descendants. Fedorov LM, et al. **Transgenic Res** 1997 May;6(3):223–31

CHEMISTRY

On Fisher's exact test for detecting gametic disequilibrium between DNA polymorphisms. Zapata C, et al. **Ann Hum Genet** 1997 Jan;61 (Pt 1):71–7
Three abundant germ line-specific transcripts in Volvox carteri encode photosynthetic proteins. Choi G, et al.

Curr Genet 1996 Sep;30(4):347-55
Zebrafish vasa homologue RNA is localized to the cleavage planes of 2- and 4-cell-stage embryos and is expressed in the primordial germ cells. Yoon C, et al. **Development** 1997 Aug;124(16):3157-65

CYTOLOGY

Temperature and germ cell regulation of Leydig cell proliferation stimulated by Sertoli cell-secreted mitogenic factor: a possible role in cryptorchidism. Wu N, et al. **Andrologia** 1996 Sep-Oct;28(5):247-57
Germ cell development in Drosophila. Williamson A, et al. **Ann Rev Cell Dev Biol** 1996;12:365-91 (122 ref.)
The Drosophila fusome, organelle biogenesis and germ cell differentiation: if you build it.... McKearin D. **Bioessays** 1997 Feb;19(2):147-52 (48 ref.)
Primordial germ cell-derived mouse embryonic germ (EG) cells in vitro resemble undifferentiated stem cells with respect to differentiation capacity and cell cycle distribution. Rohwedel J, et al. **Cell Biol Int** 1996 Aug; 20(8):579-87
Cell migration: don't tread on me. Doren MV, et al. **Curr Biol** 1997 Mar 1;7(3):R148-50 (13 ref.)
Purification of primordial germ cells from TNAPbeta-geo mouse embryos using FACS-gal. Abe K, et al. **Dev Biol** 1996 Dec 15;180(2):468-72
Soma-germ cell interactions in Caenorhabditis elegans: multiple events of hermaphrodite germline development require the somatic sheath and spermathecal lineages. McCarter J, et al. **Dev Biol** 1997 Jan 15;181(2):121-43
The allocation of epiblast cells to ectodermal and germ-line lineages is influenced by the position of the cells in the gastrulating mouse embryo. Tam PP, et al. **Dev Biol** 1996 Aug 25;178(1):124-32
Tenascin-C lines the migratory pathways of avian primordial germ cells and hematopoietic progenitor cells. Anstrom KK, et al. **Dev Dyn** 1996 Aug;206(4):437-46
The cause of the decreased number of primordial germ cells in albino Xenopus resides not in the micro-environment but in the presumptive PGC. Ikenishi K, et al. **Dev Growth Differ** 1997 Jun;39(3):345-9
Differentiation of female chicken primordial germ cells into spermatozoa in male gonads. Tagami T, et al. **Dev Growth Differ** 1997 Jun;39(3):267-71
Germ-line tumor formation caused by activation of glp-1, a Caenorhabditis elegans member of the Notch family of receptors. Berry LW, et al. **Development** 1997 Feb; 124(4):925-36
Zfx mutation results in small animal size and reduced germ cell number in male and female mice. Luoh SW, et al. **Development** 1997 Jun;124(11):2275-84
The primordial germ cells of mammals: some current perspectives. Buehr M. **Exp Cell Res** 1997 May 1; 232(2):194-207 (129 ref.)
Germ line chimeras from female ES cells. Voss AK, et al. **Exp Cell Res** 1997 Jan 10;230(1):45-9
Gene transfection of mouse primordial germ cells in vitro and analysis of their survival and growth control. Watanabe M, et al. **Exp Cell Res** 1997 Jan 10;230(1):76-83
Primordial germ cell development: is the urodele pattern closer to mammals than to anurans? Wakahara M. **Int J Dev Biol** 1996 Aug;40(4):653-9 (55 ref.)
Interactions between germ cells and extracellular matrix glycoproteins during migration and gonad assembly in the mouse embryo. García-Castro MI, et al. **J Cell Biol** 1997 Jul 28;138(2):471-80
Identification of pig primordial germ cells by immunocytochemistry and lectin binding. Takagi Y, et al. **Mol Reprod Dev** 1997 Apr;46(4):567-80
Primordial germ cell development in avians. Ginsburg M. **Poult Sci** 1997 Jan;76(1):91-5 (23 ref.)
Spatial relationship between endophyll, primordial germ cells, sickle endoblast and upper layer in cultured avian blastoderms. Callebaut M, et al. **Reprod Nutr Dev** 1997 May-Jun;37(3):293-304
Primordial germ cell migration in the Ceratitis capitata embryo. Riparbelli MG, et al. **Tissue Cell** 1996 Feb; 28(1):99-105
Primordial germ cells and oocytes of Branchiostoma virginiae (Cephalochordata, Acrania) are flagellated epithelial cells: relationship between epithelial and primary egg polarity. Frick JE, et al. **Zygote** 1997 May;5(2):139-51

DRUG EFFECTS

The response of germ cells to ethylene oxide, propylene oxide, propylene imine and methyl methanesulfonate is a matter of cell stage-related DNA repair. Vogel EW, et al. **Environ Mol Mutagen** 1997;29(2):124-35
Evaluation of the potential carcinogenicity and genetic toxicity to humans of the herbicide acetochlor [see comments] Ashby J, et al. **Hum Exp Toxicol** 1996 Sep; 15(9):702-35. Comment in: Hum Exp Toxicol 1997 Apr;16(4):186-7. Comment in: Hum Exp Toxicol 1997 Apr;16(4):188. Comment in: Hum Exp Toxicol 1997 Apr;16(4):189.
The cytogenetic effects of pyrimethamine on male mouse germ cells. Aydemir N, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2-4):79-83
Testicular effects of 1,3,5-trinitrobenzene (TNB). II. Immunolocalization of germ cells using proliferating cell nuclear antigen (PCNA) as an endogenous marker. Chandra AM, et al. **J Toxicol Environ Health** 1997 Mar; 50(4):379-87
Gonadal function of patients treated with cisplatin based chemotherapy for germ cell cancer. Brennemann W, et al. **J Urol** 1997 Sep;158(3 Pt 1):844-50
Dominant lethal mutations, heritable translocations, and unscheduled DNA synthesis induced in male mouse germ cells by glycidamide, a metabolite of acrylamide. Generoso WM, et al. **Mutat Res** 1996 Dec 20;371(3-4):175-83
Micronucleus induction in germ and somatic cells of the mouse after exposure to the butadiene metabolites diepoxybutane and epoxybutene. Russo A, et al. **Mutat Res** 1997 Apr 24;390(1-2):129-39
A comparative study of chemically induced DNA damage in isolated human and rat testicular cells. Bjørge C, et al. **Reprod Toxicol** 1996 Nov-Dec;10(6):509-19
Latent effects of pesticides and toxic substances on sexual differentiation of rodents. Gray LE Jr, et al. **Toxicol Ind Health** 1996 May-Aug;12(3-4):515-31 (38 ref.)

ENZYMOLOGY

Transcriptionally repressed germ cells lack a subpopulation of phosphorylated RNA polymerase II in early embryos of Caenorhabditis elegans and Drosophila melanogaster. Seydoux G, et al. **Development** 1997 Jun;124(11):2191-201
Characterization of a gene family encoding cysteine proteinases of Sitophilus zeamais (maize weevil), and analysis of the protein distribution in various tissues including alimentary tract and germ cells. Matsumoto I, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):464-76
PfKIN, an SNF1 type protein kinase of Plasmodium falciparum predominantly expressed in gametocytes. Bracchi V, et al. **Mol Biochem Parasitol** 1996 Feb-Mar; 76(1-2):299-303

GROWTH & DEVELOPMENT

Isolation and developmental expression of male reproductive organ-specific genes in a dioecious campion, Melandrium album (Silene latifolia). Matsunaga S, et al. **Plant J** 1996 Oct;10(4):679-89

IMMUNOLOGY

Update on the Center for Recombinant Gamete Contraceptive Vaccinogens. Herr JC. **Am J Reprod Immunol** 1996 Mar;35(3):184-9 (31 ref.)

METABOLISM

Molecular cloning and chromosomal mapping of olfactory receptor genes expressed in the male germ line: evidence for their wide distribution in the human genome. Vanderhaeghen P, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):283-7
Developmental and stage-dependent expression of melanin-concentrating hormone in mammalian germ cells. Hervieu G, et al. **Biol Reprod** 1996 Jun;54(6):1161-72
Nuclear phosphoinositide-specific phospholipase C, phosphatidylinositol 4,5-bisphosphate and protein kinase C during rat spermatogenesis. Caramelli E, et al. **Eur J Cell Biol** 1996 Oct;71(2):154-64
A novel endozepine-like peptide (ELP) is exclusively expressed in male germ cells. Pusch W, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):69-80
Gene targeting in C57BL/6 ES cells. Successful germ line transmission using recipient BALB/c blastocysts developmentally matured in vitro. Lemckert FA, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):917-8
[Proteins from murine embryonal and germ cells, interacting in vitro with Oct3/4] Tomilin AN, et al. **Dokl Akad Nauk** 1997 Mar;353(2):267-9 **(Rus)**

PATHOLOGY

Trisomy eight in ES cells is a common potential problem in gene targeting and interferes with germ line transmission. Liu X, et al. **Dev Dyn** 1997 May;209(1):85-91
Description of primordial germ cells, oogonia, oocytes and embryo-like growth in squash preparations of tissues from hematological malignancies. Logothetou-Rella H. **Histol Histopathol** 1996 Oct;11(4):965-84
The prepubertal testis (prenatal and postnatal): its relationship to intratubular germ cell neoplasia: a combined Pediatric Oncology Group and Children's Cancer Study Group. Hawkins E, et al. **Hum Pathol** 1997 Apr;28(4):404-10

PHYSIOLOGY

A novel group of pumilio mutations affects the asymmetric division of germline stem cells in the Drosophila ovary. Lin H, et al. **Development** 1997 Jun;124(12):2463-76
Differential ability of male and female rabbit fetal germ cell nuclei to be reprogrammed by nuclear transfer. Moens A, et al. **Differentiation** 1996 Sep;60(5):339-45
Aneuploidy in germ cells: etiologies and risk factors. Bishop JB, et al. **Environ Mol Mutagen** 1996;28(3):159-66
Parental age-related aneuploidy in human germ cells and offspring: a story of past and present. Eichenlaub-Ritter U. **Environ Mol Mutagen** 1996;28(3):211-36 (200 ref.)
Meiotic recombination and germ cell aneuploidy. Ferguson LR, et al. **Environ Mol Mutagen** 1996;28(3):192-210 (178 ref.)
The aneuploidy issue in germ cell mutagenesis. Generoso WM. **Environ Mol Mutagen** 1996;28(3):265-6
Aneuploidy in germ cells: disruption of chromosome mover components. Preston RJ. **Environ Mol Mutagen** 1996; 28(3):176-81
Thyroid hormone regulation of germ cell-specific EF-1 alpha expression during metamorphosis of Xenopus laevis. Abdallah B, et al. **Int J Dev Biol** 1996 Apr;40(2):507-14
Molecular studies of soma-germ cell interactions using mussel gonad as an experimental model. Mikhailov A, et al. **Int J Dev Biol** 1996;Suppl 1:203S-204S
Migration of primordial germ cells to the developing gonadal ridges in the tammar wallaby Macropus eugenii. Ullmann SL, et al. **J Reprod Fertil** 1997 May;110(1):135-43
Midline teratomas, mullerianosis, the multifariousness of gynaecological neoplasias, and the scrotum. Are they manifestations of a germ-soma barrier? Pansera F. **Med Hypotheses** 1997 Apr;48(4):361-4
The Drosophila protein Wunen repels migrating germ cells. Zhang N, et al. **Nature** 1997 Jan 2;385(6611):64-7
Cryopreservation of germ cells from bovine fetal ovaries. Lavoir MC, et al. **Reprod Fertil Dev** 1996;8(2):267-71
Requirement for a noncoding RNA in Drosophila polar granules for germ cell establishment. Nakamura A, et al. **Science** 1996 Dec 20;274(5295):2075-9
Role of stem cell factor in somatic-germ cell interactions during prenatal oogenesis. De Felici M, et al. **Zygote** 1996 Nov;4(4):349-51

RADIATION EFFECTS

[The dynamic mutability of the somatic and germ cells of animals inhabiting regions of radioactive fallout] Goncharova RI, et al. **Tsitol Genet** 1996 Jul-Aug; 30(4):35-41 (Eng. Abstr.) **(Rus)**

TRANSPLANTATION

Male germ cell transplantation. Söder O. **Eur J Endocrinol** 1997 Jan;136(1):41-2
Transfer of male or female primordial germ cells of quail into chick embryonic gonads. Ono T, et al. **Exp Anim** 1996 Oct;45(4):347-52
Use of gonadal primordial germ cells (PGCs) as tools for gene transfer in chickens. Allioli N, et al. **Methods Mol Biol** 1997;62:425-32

ULTRASTRUCTURE

Ultrastructural characteristics of primordial germ cells and their amoeboid movement to the gonadal ridges in the tammar wallaby. Jiang FX, et al. **Anat Embryol (Berl)** 1997 May;195(5):473-81
Comparative study on germ cell mutation induced by urethane (ethyl carbamate) gas and X-rays in Drosophila melanogaster. Nomura T, et al. **Jpn J Cancer Res** 1997 May;88(5):461-7

GERM-FREE LIFE

Infection and cross-protection studies of winter dysentery and calf diarrhea bovine coronavirus strains in colostrum-deprived and gnotobiotic calves. El-Kanawati ZR, et al. **Am J Vet Res** 1996 Jan;57(1):48-53
Effects of a diet deficient in tyrosine and queuine on germfree mice. Marks T, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):233-7
Compared effects of three oligosaccharides on metabolism of intestinal microflora in rats inoculated with a human faecal flora. Djouzi Z, et al. **Br J Nutr** 1997 Aug; 78(2):313-24
Fermentable dietary fibre, intestinal microflora and plasma hormones in the rat. Ghatei MA, et al. **Clin Sci (Colch)** 1997 Aug;93(2):109-12
Down regulation of S-adenosyl-L-methionine decarboxylase activity of Trypanosoma brucei during transition from long slender to short stumpy-like forms in axenic culture. Selzer PM, et al. **Eur J Cell Biol** 1996 Feb;69(2):173-9
Antigenic differences between axenic amastigotes & promastigotes of Leishmania donovani. Chattopadhayay R, et al. **Indian J Med Res** 1996 Dec;104:349-54
Escherichia coli K5 capsule expression enhances colonization of the large intestine in the gnotobiotic rat. Hérias MV, et al. **Infect Immun** 1997 Feb;65(2):531-6
Viral antigen and B and T lymphocytes in lymphoid tissues of gnotobiotic piglets infected with hog cholera virus. Narita M, et al. **J Comp Pathol** 1996 Apr;114(3):257-63
Intestinal lesions caused by two swine chlamydial isolates in gnotobiotic pigs. Rogers DG, et al. **J Vet Diagn Invest** 1996 Oct;8(4):433-40
Health status of experimental pigs. Hansen AK. **Pharmacol Toxicol** 1997;80 Suppl 2:10-5 (19 ref.)
Changes in jejunal mucosa after long-term feeding of germfree rats with gluten. Stěpánková R, et al. **Scand J Gastroenterol** 1996 Jun;31(6):551-7
Germ-free and conventional animal models for intestinal carbohydrate disposition. Midtvedt T. **Scand J Gastroenterol Suppl** 1997;222:25-7
[Changes in the ultrastructure of epitheliocytes of large intestine of conventional and gnotobiotic minipigs after exposure to choleragen] Shakhlamov VA, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):692-4 **(Rus)**

GERM-FREE LIFE

DRUG EFFECTS

Response of germfree rat colonic mucous cells to peroral endotoxin application. Enss ML, et al. **Eur J Cell Biol** 1996 Sep;71(1):99–104

[The effect of choleragen poisoning on the intestinal apudocytes of gnotobiotic minipigs] Isupov IV, et al. **Arkh Patol** 1996 Nov-Dec;58(6):59–62 (Eng. Abstr.) **(Rus)**

GENETICS

T cell receptor–alpha beta–deficient mice fail to develop colitis in the absence of a microbial environment. Dianda L, et al. **Am J Pathol** 1997 Jan;150(1):91–7

IMMUNOLOGY

T cell receptor–alpha beta–deficient mice fail to develop colitis in the absence of a microbial environment. Dianda L, et al. **Am J Pathol** 1997 Jan;150(1):91–7

Influence of selective T-lymphocyte depletion on the lung pathology of gnotobiotic calves and the distribution of different T-lymphocyte subsets following challenge with bovine respiratory syncytial virus. Thomas LH, et al. **Res Vet Sci** 1996 Jul;61(1):38–44

PHYSIOLOGY

Polyamine and intestinal properties in adult rats. Deloyer P, et al. **Br J Nutr** 1996 Oct;76(4):627–37

Influence of cholesterol feeding on bile acid metabolism in young and aged germ-free rats. Uchida K, et al. **Jpn J Pharmacol** 1996 Jun;71(2):113–8

Germ-free and barrier-raised TGF beta 1–deficient mice have similar inflammatory lesions. Boivin GP, et al. **Transgenic Res** 1997 May;6(3):197–202

GERM LAYERS

ULTRASONOGRAPHY

Prenatal pseudocysts of the germinal matrix in preterm infants. Ramenghi LA, et al. **J Clin Ultrasound** 1997 May; 25(4):169–73

GERM-LINE CELLS see **GERM CELLS**

GERM-LINE MUTATION

Variable expressivity of patched mutations in flies and humans [editorial] Bale AE. **Am J Hum Genet** 1997 Jan; 60(1):10–2

BRCA2 in American families with four or more cases of breast or ovarian cancer: recurrent and novel mutations, variable expression, penetrance, and the possibility of families whose cancer is not attributable to BRCA1 or BRCA2 [see comments] Schubert EL, et al. **Am J Hum Genet** 1997 May;60(5):1031–40. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Prevalence and contribution of BRCA1 mutations in breast cancer and ovarian cancer: results from three U.S. population–based case–control studies of ovarian cancer. Whittemore AS, et al. **Am J Hum Genet** 1997 Mar; 60(3):496–504

Most germ–line mutations in the nevoid basal cell carcinoma syndrome lead to a premature termination of the PATCHED protein, and no genotype–phenotype correlations are evident. Wicking C, et al. **Am J Hum Genet** 1997 Jan;60(1):21–6

Hereditary nonpolyposis colorectal cancer families not complying with the Amsterdam criteria show extremely low frequency of mismatch–repair–gene mutations. Wijnen J, et al. **Am J Hum Genet** 1997 Aug;61(2):329–35

Familial medullary thyroid carcinoma: not a distinct entity? Genotype–phenotype correlation in a large family. Moers AM, et al. **Am J Med** 1996 Dec;101(6):635–41

Clinical significance of the FV:Q506 mutation in unselected oncology patients. Otterson GA, et al. **Am J Med** 1996 Oct;101(4):406–12

BRCA1 185delAG mutation in a non–Ashkenazi Jewish woman with early–onset breast and ovarian cancer [letter] Menczer J, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):731

Benign clonal keratinocyte patches with p53 mutations show no genetic link to synchronous squamous cell precancer or cancer in human skin. Ren ZP, et al. **Am J Pathol** 1997 May;150(5):1791–803

Prevalence, male germ–line origin and new patterns of inversions in haemophilia A. Valleix S, et al. **Ann Genet** 1997;40(1):35–40

Phenotypic expression of disease in families that have mutations in the 5' region of the adenomatous polyposis coli gene. Giardiello FM, et al. **Ann Intern Med** 1997 Apr 1;126(7):514–9

Genetic transmission of susceptibility to cancer in families of children with soft tissue sarcomas. Moutou C, et al. **Cancer** 1996 Oct 1;78(7):1483–91

Congenital hypertrophy of the retinal pigment epithelium in familial adenomatous polyposis. Novel criteria of assessment and correlations with constitutional adenomatous polyposis coli gene mutations. Valanzano R, et al. **Cancer** 1996 Dec 1;78(11):2400–10

Germ–line mutation of the hMSH6/GTBP gene in an atypical hereditary nonpolyposis colorectal cancer kindred. Akiyama Y, et al. **Cancer Res** 1997 Sep 15;57(18):3920–3

DNA damage–associated dysregulation of the cell cycle and apoptosis control in cells with germ–line p53 mutation. Goi K, et al. **Cancer Res** 1997 May 15;57(10):1895–902

Distinct somatic genetic changes associated with tumor progression in carriers of BRCA1 and BRCA2 germ–line mutations. Tirkkonen M, et al. **Cancer Res** 1997 Apr 1; 57(7):1222–7

A screening for BRCA1 mutations in breast and breast–ovarian cancer families from the Stockholm region. Zelada–Hedman M, et al. **Cancer Res** 1997 Jun 15; 57(12):2474–7

Rapid diagnosis of germline p53 mutation using the enzyme mismatch cleavage method. Giunta C, et al. **Diagn Mol Pathol** 1996 Dec;5(4):265–70

Future research directions to study genetic damage in germ cells and estimate genetic risk. Adler ID. **Environ Health Perspect** 1996 May;104 Suppl 3:619–24 (51 ref.)

Genetic analysis of children of atomic bomb survivors. Satoh C, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:511–9

Constitutional nonsense germline mutations in the RB1 gene detected in patients with early onset unilateral retinoblastoma. Cowell JK, et al. **Eur J Cancer** 1996 Sep; 32A(10):1749–52

A new germline TP53 gene mutation in a family with Li–Fraumeni syndrome. Dockhorn–Dworniczak B, et al. **Eur J Cancer** 1996 Jul;32A(8):1359–65

BRCA1 mutations found in archived early onset breast tumours. Garvin AM, et al. **Eur J Cancer** 1997 Apr; 33(4):683–6

German family study on hereditary breast and/or ovarian cancer: germline mutation analysis of the BRCA1 gene. Hamann U, et al. **Genes Chromosomes Cancer** 1997 Feb; 18(2):126–32

Mean age of tumor onset in hereditary nonpolyposis colorectal cancer (HNPCC) families correlates with the presence of mutations in DNA mismatch repair genes. Pensotti V, et al. **Genes Chromosomes Cancer** 1997 Jul; 19(3):135–42

Characterization of MSH2 and MLH1 mutations in Italian families with hereditary nonpolyposis colorectal cancer. Viel A, et al. **Genes Chromosomes Cancer** 1997 Jan; 18(1):8–18

Null mutation of the prolactin receptor gene produces multiple reproductive defects in the mouse. Ormandy CJ, et al. **Genes Dev** 1997 Jan 15;11(2):167–78

Germline and somatic transformation of mating Tetrahymena thermophila by particle bombardment. Cassidy–Hanley D, et al. **Genetics** 1997 May;146(1):135–47

The autosomal FLP–DFS technique for generating germline mosaics in Drosophila melanogaster. Chou TB, et al. **Genetics** 1996 Dec;144(4):1673–9

Spectrum of Bmp5 mutations from germline mutagenesis experiments in mice. Marker PC, et al. **Genetics** 1997 Feb; 145(2):435–43

Inactivation of the mouse HPRT locus by a 203–bp retroposon insertion and a 55–kb gene–targeted deletion: establishment of new HPRT–deficient mouse embryonic stem cell lines. Tsuda H, et al. **Genomics** 1997 Jun 15; 42(3):413–21

Frequency of germline hereditary non–polyposis colorectal cancer gene mutations in patients with multiple or early onset colorectal adenomas. Beck NE, et al. **Gut** 1997 Aug; 41(2):235–8

Hepatoblastoma and APC gene mutation in familial adenomatous polyposis. Giardiello FM, et al. **Gut** 1996 Dec; 39(96):867–9

APC gene mutations and extraintestinal phenotype of familial adenomatous polyposis. Giardiello FM, et al. **Gut** 1997 Apr; 40(4):521–5

Absence of mutations in the regulatory domain of the gap junction protein connexin 43 in patients with visceroatrial heterotaxy. Penman Splitt M, et al. **Heart** 1997 Apr; 77(4):369–70

Germ–line mutations of the p16INK4(MTS1) gene occur in a subset of patients with hepatocellular carcinoma. Chaubert P, et al. **Hepatology** 1997 Jun;25(6):1376–81

A genetic screen for meiotic mutants in mosaic clones of male germ line in Drosophila melanogaster. Fedorova S, et al. **Hereditas** 1997;126(2):191–3

Use of SSCP analysis to identify germline mutations in HNPCC families fulfilling the Amsterdam criteria. Beck NE, et al. **Hum Genet** 1997 Feb;99(2):219–24

Human Gene Mutation Database [letter] Cooper DN, et al. **Hum Genet** 1996 Nov;98(5):629

Quantification of the paternal allele bias for new germline mutations in the retinoblastoma gene. Dryja TP, et al. **Hum Genet** 1997 Sep;100(3–4):446–9

Intervention of somatic mutational events in vivo by a germline defect at the adenine phosphoribosyltransferase locus. Hakoda M, et al. **Hum Genet** 1997 Feb;99(2):164–70

Identification of NF2 germ–line mutations and comparison with neurofibromatosis 2 phenotypes [published erratum appears in Hum Genet 1997 Feb;99(2):292] Kluwe L, et al. **Hum Genet** 1996 Nov;98(5):534–8

Loss of the PLA2G2A gene in a sporadic colorectal tumor of a patient with a PLA2G2A germline mutation and absence of PLA2G2A germline alterations in patients with FAP. Nimmrich I, et al. **Hum Genet** 1997 Sep; 100(3–4):345–9

Hereditary nonpolyposis colorectal cancer: causative role of a germline missense mutation in the hMLH1 gene confirmed by the independent occurrence of the same somatic mutation in tumour tissue. Wang Y, et al. **Hum Genet** 1997 Sep;100(3–4):362–4

Germline mutations of the MEN1 gene in familial multiple endocrine neoplasia type 1 and related states. Agarwal SK, et al. **Hum Mol Genet** 1997 Jul;6(7):1169–75

The factor IX gene as a model for analysis of human germline mutations: an update. Sommer SS, et al. **Hum Mol Genet** 1996;5 Spec No:1505–14 (107 ref.)

Three germline mutations in the TP53 gene. Cornelis RS, et al. **Hum Mutat** 1997;9(2):157–63

Identification of a one–base germline deletion (codon 888 del C) and an intron splice acceptor site polymorphism in hMSH2. Swensen J, et al. **Hum Mutat** 1997;10(1):80–1

Molecular analysis of the APC gene in 105 Dutch kindreds with familial adenomatous polyposis: 67 germline mutations identified by DGGE, PTT, and southern analysis. van der Luijt RB, et al. **Hum Mutat** 1997;9(1):7–16

Four novel germline mutations of the APC gene. Wells D, et al. **Hum Mutat** 1996;8(2):193–5

Screening of 229 family cancer patients for a germline estrogen receptor gene (ESR) base mutation [letter] Zelada–Hedman M, et al. **Hum Mutat** 1997;9(3):289

Genomes of two water frog species resist germ line exclusion in interspecies hybrids. Guerrini F, et al. **J Exp Zool** 1997 Oct 1;279(2):163–76

Germline and somatic mosaicism in a female carrier of Hunter disease. Froissart R, et al. **J Med Genet** 1997 Feb; 34(2):137–40

Hereditary retinoblastoma, lipoma, and second primary cancers. Li FP, et al. **J Natl Cancer Inst** 1997 Jan 1; 89(1):83–4

von Hippel–Lindau disease gene alterations associated with endolymphatic sac tumor [letter] Vortmeyer AO, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):970–2

Familial tumor syndrome associated with a germline nonfunctional p16INK4a allele. Yarbrough WG, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1489–91

Germline mutations of the RET proto–oncogene in pedigree with MEN type 2A: DNA analysis and its implications for pediatric surgery. Shimotake T, et al. **J Pediatr Surg** 1996 Jun;31(6):779–81

Germline mutation of the RET proto–oncogene in children with total intestinal aganglionosis. Shimotake T, et al. **J Pediatr Surg** 1997 Mar;32(3):498–500

Induction of a germline mutation at a hypervariable mouse minisatellite locus by 252Cf radiation. Niwa O, et al. **J Radiat Res (Tokyo)** 1996 Sep;37(3):217–24

A nationwide clinical survey of patients with multiple endocrine neoplasia type 2 and familial medullary thyroid carcinoma in Japan. Iihara M, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):128–34

Incidence of spontaneous post–implantation deaths in CFT–Swiss mice: its suitability to assess dominant lethal mutations. Muralidhara, et al. **Lab Anim** 1996 Apr; 30(2):138–42

Constitutional alterations in p16 in patients with uveal melanoma. Wang X, et al. **Melanoma Res** 1996 Dec; 6(6):405–10

Congenital abnormalities and indicators of germinal mutations in the vicinity of the Paks nuclear plant, Hungary. Siffel C, et al. **Mutagenesis** 1996 May; 11(3):299–303

Mutation assays in male germ cells from transgenic mice: overview of study and conclusions. Ashby J, et al. **Mutat Res** 1997 Feb 14;388(2–3):111–22 (10 ref.)

Evaluation of the transgenic Lambda/LacI mouse model as a short–term predictor of heritable risk. Provost GS, et al. **Mutat Res** 1997 Feb 14;388(2–3):129–36

Evaluation of spontaneous and chemical–induced lacI mutations in germ cells from lambda/lacI transgenic mice. Putman DL, et al. **Mutat Res** 1997 Feb 14;388(2–3):137–43

Mammalian germ cell mutagenicity of ENU, IPMS and MMS, chemicals selected for a transgenic mouse collaborative study. Shelby MD, et al. **Mutat Res** 1997 Feb 14;388(2–3):99–109 (65 ref.)

Congenital hypothyroidism caused by mutations in the thyrotropin–receptor gene [letter] Biebermann H, et al. **N Engl J Med** 1997 May 8;336(19):1390–1

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Brunet JS, et al. **N Engl J Med** 1997 Apr 24;336(17):1256; discussion 1256–7 . Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Burk RD. **N Engl J Med** 1997 Apr 24;336(17):1255; discussion 1256–7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Cannistra SA. **N Engl J Med** 1997 Apr 24;336(17):1254; discussion 1256–7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Johannsson O, et al. **N Engl J Med** 1997 Apr 24;336(17):1255–6; discussion 1256–7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

Differential contributions of BRCA1 and BRCA2 to early–onset breast cancer [see comments] Krainer M, et al. **N Engl J Med** 1997 May 15;336(20):1416–21. Comment in: N Engl J Med 1997 May 15;336(20):1448–9.

Germ–line mutations of the p53 tumor–suppressor gene in

children and young adults with second malignant neoplasms [letter] Malkin D, et al. **N Engl J Med** 1997 Mar 6;336(10):734

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Modan B. **N Engl J Med** 1997 Apr 24;336(17):1255; discussion 1256–7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

Genetics in clinical cancer care—the future is now [editorial; comment] Olopade OI. **N Engl J Med** 1996 Nov 7; 335(19):1455–6. Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

Clinical and pathological features of ovarian cancer in women with germ-line mutations of BRCA1 [see comments] Rubin SC, et al. **N Engl J Med** 1996 Nov 7; 335(19):1413–6. Comment in: N Engl J Med 1996 Nov 7;336(19):1455–6. Comment in: N Engl J Med 1997 Apr 24;336(17):1254; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1254–5; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1255; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1255–6; discussion 1256–7. Comment in: N Engl J Med 1997 Apr 24;336(17):1256; discussion 1256–7.

Contribution of BRCA1 mutations to ovarian cancer. Stratton JF, et al. **N Engl J Med** 1997 Apr 17; 336(16):1125–30

The risk of cancer associated with specific mutations of BRCA1 and BRCA2 among Ashkenazi Jews [see comments] Struewing JP, et al. **N Engl J Med** 1997 May 15;336(20):1401–8. Comment in: N Engl J Med 1997 May 15;336(20):1448–9.

BRCA1 mutations and survival in women with ovarian cancer [letter; comment] Whitmore SE. **N Engl J Med** 1997 Apr 24;336(17):1254–5; discussion 1256–7. Comment on: N Engl J Med 1996 Nov 7;335(19):1413–6.

Germline mutations in glial cell line-derived neurotrophic factor (GDNF) and RET in a Hirschsprung disease patient. Angrist M, et al. **Nat Genet** 1996 Nov;14(3):341–4

Variation of risks of breast and ovarian cancer associated with different germline mutations of the BRCA2 gene. Gayther SA, et al. **Nat Genet** 1997 Jan;15(1):103–5

Germline mutations of the PTEN gene in Cowden disease, an inherited breast and thyroid cancer syndrome. Liaw D, et al. **Nat Genet** 1997 May;16(1):64–7

Germline mutations in PTEN are present in Bannayan–Zonana syndrome [letter] Marsh DJ, et al. **Nat Genet** 1997 Aug;16(4):333–4

Germline BRCA2 6174delT mutations in Ashkenazi Jewish pancreatic cancer patients [letter] Ozçelik H, et al. **Nat Genet** 1997 May;16(1):17–8

A breast/ovarian cancer patient with germline mutations in both BRCA1 and BRCA2 [letter] Ramus SJ, et al. **Nat Genet** 1997 Jan;15(1):14–5

Germline mutations of the RET ligand GDNF are not sufficient to cause Hirschsprung disease. Salomon R, et al. **Nat Genet** 1996 Nov;14(3):345–7

Functional expression and germline transmission of a human chromosome fragment in chimaeric mice [see comments] Tomizuka K, et al. **Nat Genet** 1997 Jun;16(2):133–43. Comment in: Nat Genet 1997 Jun;16(2):113–4.

Thalidomide is not a mutagen [letter] Ashby J. **Nature** 1997 Sep 11;389(6647):118

A novel germ line p53 mutation in intron 6 in diverse childhood malignancies. Avigad S, et al. **Oncogene** 1997 Apr 3;14(13):1541–5

Novel germline RET proto-oncogene mutations associated with medullary thyroid carcinoma (MTC): mutation analysis in Japanese patients with MTC. Kitamura Y, et al. **Oncogene** 1997 Jun 26;14(25):3103–6

Two functional assays employed to detect an unusual mutation in the oligomerisation domain of p53 in a Li–Fraumeni like family. Lomax ME, et al. **Oncogene** 1997 Apr 17;14(15):1869–74

RET protooncogene mutational analysis in multiple endocrine neoplasia syndrome type 2B: case report and review of the literature. Kahn MA, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):288–94 (21 ref.)

A dynamin GTPase mutation causes a rapid and reversible temperature-inducible locomotion defect in C. elegans. Clark SG, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10438–43

Transgenic rescue from embryonic lethality and renal carcinogenesis in the Eker rat model by introduction of a wild-type Tsc2 gene. Kobayashi T, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3990–3

Correlation of germ-line mutations and two-hit inactivation of the WT1 gene with Wilms tumors of stromal-predominant histology. Schumacher V, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3972–7

Manipulation of the mouse germline in the study of Min-induced neoplasia. Bilger A, et al. **Semin Cancer Biol** 1996 Oct;7(5):249–60 (118 ref.)

[A method for detection of germinal mutations in the p53 tumor suppressor gene] Sedláček Z, et al. **Cas Lek Cesk** 1996 Dec 4;135(23):762–7 (Eng. Abstr.) **(Cze)**

[Germ-line mutation of BRCA1 in patients with breast and/or ovarian cancer in high risk families in Northern France] Peyrat JP, et al. **Bull Cancer** 1997 Jan;84(1):41–6 (34 ref.) (Eng. Abstr.) **(Fre)**

[Mutations of ret-proto-oncogene in thyroid medullary carcinoma] Frank-Raue K, et al. **Dtsch Med Wochenschr** 1997 Feb 7;122(6):143–9 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

The response of germ cells to ethylene oxide, propylene oxide, propylene imine and methyl methanesulfonate is a matter of cell stage-related DNA repair. Vogel EW, et al. **Environ Mol Mutagen** 1997;29(2):124–35

Molecular study of the germinal reversions induced at the white-ivory locus in Drosophila melanogaster. Suárez S, et al. **Mutagenesis** 1996 Nov;11(6):559–63

GENETICS

Widening of a Y-chromosome interval-6 deletion transmitted from a father to his infertile son accounts for an oligozoospermia critical region distal to the RBM1 and DAZ genes [letter] Stuppia L, et al. **Am J Hum Genet** 1996 Dec;59(6):1393–5

Genetic testing for familial cancer. Consequences of RET proto-oncogene mutation analysis in multiple endocrine neoplasia, type 2. Learoyd DL, et al. **Arch Surg** 1997 Sep; 132(9):1022–5

BRCA1 5382insC mutation in sporadic and familial breast and ovarian carcinoma in Scotland. Mullen P, et al. **Br J Cancer** 1997;75(9):1377–80

The von Hippel–Lindau tumor suppressor gene. A rare and intriguing disease opening new insight into basic mechanisms of carcinogenesis. Decker HJ, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):74–83 (127 ref.)

Identification of novel germline hMLH1 mutations including a 22 kb Alu-mediated deletion in patients with familial colorectal cancer. Mauillon JL, et al. **Cancer Res** 1996 Dec 15;56(24):5728–33

Germ-line mutations of TP53 in Li-Fraumeni families: an extended study of 39 families. Varley JM, et al. **Cancer Res** 1997 Aug 1;57(15):3245–52

Genomic DNA-based hMSH2 and hMLH1 mutation screening in 32 Eastern United States hereditary nonpolyposis colorectal cancer pedigrees. Weber TK, et al. **Cancer Res** 1997 Sep 1;57(17):3798–803

Mechanism of V(D)J recombination. Zhu C, et al. **Cancer Surv** 1996;28:295–309 (69 ref.)

Germline mutations in the 3' part of APC exon 15 do not result in truncated proteins and are associated with attenuated adenomatous polyposis coli. van der Luijt RB, et al. **Hum Genet** 1996 Dec;98(6):727–34

Mutation rate heterogeneity and the generation of allele diversity at the human minisatellite MS205 (D16S309). May CA, et al. **Hum Mol Genet** 1996 Nov;5(11):1823–33

Analysis of germline variation at the FMR1 CGG repeat shows variation in the normal–premutated borderline range. Mornet E, et al. **Hum Mol Genet** 1996 Jun;5(6):821–5

Characterization of 19 novel and six recurring APC mutations in Italian adenomatous polyposis patients, using two different mutation detection techniques. Gismondi V, et al. **Hum Mutat** 1997;9(4):370–3

Three novel germline mutations in the adenomatous polyposis coli gene. Scarano MI, et al. **Hum Mutat** 1997; 9(2):191–3

BRCA2 germline mutations in Japanese breast cancer families. Inoue R, et al. **Int J Cancer** 1997 Apr 22; 74(2):199–204

BRCA1 mutations in German breast-cancer families. Jandrig B, et al. **Int J Cancer** 1996 Oct 9;68(2):188–92

Complex genetic predisposition to cancer in an extended HNPCC family with an ancestral hMLH1 mutation. Hutter P, et al. **J Med Genet** 1996 Aug;33(8):636–40

Detection of germline mutations in the von Hippel–Lindau disease gene by the primer specified restriction map modification method. Kishida T, et al. **J Med Genet** 1995 Dec;32(12):938–41

Germline HNPCC gene variants have little influence on the risk for sporadic colorectal cancer. Tomlinson IP, et al. **J Med Genet** 1997 Jan;34(1):39–42

BRCA1 germline mutational spectrum in Italian families from Tuscany: a high frequency of novel mutations. Caligo MA, et al. **Oncogene** 1996 Oct 3;13(7):1483–8

Distinct biological properties of two RET isoforms activated by MEN 2A and MEN 2B mutations. Rossel M, et al. **Oncogene** 1997 Jan 23;14(3):265–75

[Germline mutation and microsatellite instability in hereditary nonpolyposis colon carcinomas] Gross M, et al. **Z Gastroenterol** 1996 Aug;34(8):509–11 **(Ger)**

IMMUNOLOGY

Somatically mutated B cell pool provides precursors for insulin antibodies. Thomas JW, et al. **J Immunol** 1996 Jul 15;157(2):763–71

PHYSIOLOGY

Studies on inherited cancers: outcomes and challenges of 25 years. Brown MA, et al. **Trends Genet** 1997 May; 13(5):202–6

GERM LINE THEORY see **ANTIBODY DIVERSITY**

GERMANIUM

Calculation of the dose distribution in water from 71Ge K-shell x-rays. Cho SH, et al. **Phys Med Biol** 1997 Jun; 42(6):1023–32

ADVERSE EFFECTS

Hazard assessment of germanium supplements. Tao SH, et al. **Regul Toxicol Pharmacol** 1997 Jun;25(3):211–9 (62 ref.)

ANALYSIS

Applications of a self-collimating BGO detector system to radiological emergency response. Pernick A, et al. **Health Phys** 1997 Jan;72(1):136–40

PHARMACOLOGY

Effect of pretreatment of germanium-132 on Na(+)-K(+)-ATPase and galactose cataracts. Unakar NJ, et al. **Curr Eye Res** 1997 Aug;16(8):832–7

[Effects of selenium and germanium on lipid peroxidation in rats fed with low-selenium grain] Xie W, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 Mar; 30(2):88–90 (Eng. Abstr.) **(Chi)**

GERMINAL CENTER

see related

APOPTOSIS

Hodgkin and Reed-Sternberg cells in Hodgkin's disease represent the outgrowth of a dominant tumor clone derived from (crippled) germinal center B cells. Kanzler H, et al. **J Exp Med** 1996 Oct 1;184(4):1495–505

CYTOLOGY

Human peripheral B cell development. sIgM-IgD+CD38+ hypermutated germinal center centroblasts preferentially express Ig lambda light chain and have undergone mu-to-delta switch. Arpin C, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:193–8

c-myc proto-oncogene expression by germinal center B cells isolated from human tonsils. Cutrona G, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:199–210 (42 ref.)

Mutually dependent T and B cell responses in germinal centers. Gulbranson-Judge A, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:199–210 (42 ref.)

Maintenance of human germinal center B cells in vitro. Pound JD, et al. **Blood** 1997 Feb 1;89(3):919–28

Terminal differentiation of human germinal center B cells in vitro. Dahlenborg K, et al. **Cell Immunol** 1997 Feb 1; 175(2):141–9

Reconstitution of germinal center formation in nude mice with Th1 and Th2 clones. Secord EA, et al. **Cell Immunol** 1996 Dec 15;174(2):173–9

Germinal centers: a second childhood for lymphocytes. Tarlinton D. **Curr Biol** 1997 Mar 1;7(3):R155–9 (25 ref.)

The propensity to apoptosis of centrocytes and centroblasts correlates with elevated levels of intracellular myc protein. Cutrona G, et al. **Eur J Immunol** 1997 Jan;27(1):234–8

Accumulation of somatic hypermutation and antigen-driven selection in rapidly cycling surface Ig+ germinal center (GC) B cells which occupy GC at a high frequency during the primary anti-hapten response in mice. Kimoto H, et al. **Eur J Immunol** 1997 Jan;27(1):268–79

Germinal center B cells rescued from apoptosis by CD40 ligation or attachment to follicular dendritic cells, but not by engagement of surface immunoglobulin or adhesion receptors, become resistant to CD95-induced apoptosis. Koopman G, et al. **Eur J Immunol** 1997 Jan;27(1):1–7

Human follicular dendritic cells and vascular cells produce interleukin-7: a potential role for interleukin-7 in the germinal center reaction. Kröncke R, et al. **Eur J Immunol** 1996 Oct;26(10):2541–4

Human T lymphocytes bind to germinal centers of human tonsils via integrin alpha4/VCAM-1 and LFA-1/ICAM-1 and -2. Schriever F, et al. **Eur J Immunol** 1997 Jan; 27(1):35–9

Differentiation and apoptosis of human germinal center B-lymphocytes. Choi YS. **Immunol Res** 1997;16(2):161–74 (105 ref.)

Germinal center development. Liu YJ, et al. **Immunol Rev** 1997 Apr;156:111–26 (138 ref.)

Centrocytes rapidly adopt a memory B cell phenotype on co-culture with autologous germinal centre T cell-enriched preparations. Casamayor-Palleja M, et al. **Int Immunol** 1996 May;8(5):737–44

The role of MT2 and anti-bcl-2 protein antibodies in the differentiation of benign from malignant cutaneous infiltrates of B-lymphocytes with germinal center formation. Chimenti S, et al. **J Cutan Pathol** 1996 Aug; 23(4):319–22

Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells. Oliver AM, et al. **J Immunol** 1997 Feb 1;158(3):1108–15

B-cell-specific coactivator OBF-1/OCA-B/Bob1 required for immune response and germinal centre formation. Schubart DB, et al. **Nature** 1996 Oct 10;383(6600):538–42

Chemotaxis-promoting and adhesion properties of human tonsillar follicular dendritic cell clusters. Bouzahzah F, et al. **Res Immunol** 1996 Mar-Apr;147(3):165–73

Neoteny in lymphocytes: Rag1 and Rag2 expression in germinal center B cells. Han S, et al. **Science** 1996 Dec 20;274(5295):2094–7

Distinctive characteristics of germinal center B cells. Han S, et al. **Semin Immunol** 1997 Aug;9(4):255–60 (54 ref.)

GERMINAL CENTER

DRUG EFFECTS

Human follicular dendritic cells in vitro and follicular dendritic-cell-like cells. Tsunoda R, et al. **Cell Tissue Res** 1997 May;288(2):381-9

ENZYMOLOGY

Polymerase chain reaction selects a novel disintegrin proteinase from CD40-activated germinal center dendritic cells. Mueller CG, et al. **J Exp Med** 1997 Aug 29; 186(5):655-63

Telomerase is up-regulated in human germinal center B cells in vivo and can be re-expressed in memory B cells activated in vitro. Hu BT, et al. **J Immunol** 1997 Aug 1; 159(3):1068-71

IMMUNOLOGY

A germinal center-like reaction in the nonlymphoid tissue of the synovial membrane. Berek C, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:211-7 (17 ref.)

Normal and malignant B-cell development with special reference to Hodgkin's disease. Rajewsky K, et al. **Ann Oncol** 1997;8 Suppl 2:79-81 (21 ref.)

Maintenance of human germinal center B cells in vitro. Pound JD, et al. **Blood** 1997 Feb 1;89(3):919-28

Antigen receptor-induced apoptosis of human germinal center B cells is targeted to a centrocytic subset. Billian G, et al. **Eur J Immunol** 1997 Feb;27(2):405-14

Direct cell/cell communication in the lymphoid germinal center: connexin43 gap junctions functionally couple follicular dendritic cells to each other and to B lymphocytes. Krenacs T, et al. **Eur J Immunol** 1997 Jun; 27(6):1489-97

Immunological defects in mice with a targeted disruption in Bcl-3. Schwarz EM, et al. **Genes Dev** 1997 Jan 15; 11(2):187-97

B7-1 and B7-2 have overlapping, critical roles in immunoglobulin class switching and germinal center formation. Borriello F, et al. **Immunity** 1997 Mar; 6(3):303-13

Critical roles for the Bcl-3 oncoprotein in T cell-mediated immunity, splenic microarchitecture, and germinal center reactions. Franzoso G, et al. **Immunity** 1997 Apr; 6(4):479-90

The physiology of murine germinal center reactions. Kosco-Vilbois MH, et al. **Immunol Rev** 1997 Apr; 156:127-36 (80 ref.)

To 'B' or not to 'B' a germinal center? Kosco-Vilbois MH, et al. **Immunol Today** 1997 May;18(5):225-30 (47 ref.)

Immunological tolerance in germinal centres. Pulendran B, et al. **Immunol Today** 1997 Jan;18(1):27-32 (65 ref.)

Accumulation of CTLA-4 expressing T lymphocytes in the germinal centres of human lymphoid tissues. Castan J, et al. **Immunology** 1997 Feb;90(2):265-71

Locomotor properties of human germinal centre B cells: activation by anti-CD40 and IL-4 allows chemoattraction by anti-immunoglobulin. Komai-Koma M, et al. **Immunology** 1997 Jan;90(1):23-9

Co-ligation of surface IgM and CD40 on naive B lymphocytes generates a blast population with an ambiguous extrafollicular/germinal centre cell phenotype. Wheeler K, et al. **Int Immunol** 1996 Jun;8(6):815-28

Follicular dendritic cells and germinal centers. Liu YJ, et al. **Int Rev Cytol** 1996;166:139-79 (205 ref.)

The role of MT2 and anti-bcl-2 protein antibodies in the differentiation of benign from malignant cutaneous infiltrates of B-lymphocytes with germinal center formation. Chimenti S, et al. **J Cutan Pathol** 1996 Aug; 23(4):319-22

T helper cells in murine germinal centers are antigen-specific emigrants that downregulate Thy-1. Zheng B, et al. **J Exp Med** 1996 Sep 1;184(3):1083-91

Characterization of B cells expressing recombination activating genes in germinal centers of immunized mouse lymph nodes. Hikida M, et al. **J Immunol** 1997 Mar 15; 158(6):2509-12

Induction of germinal center B cell markers in vitro by activated CD4+ T lymphocytes: the role of CD40 ligand, soluble factors, and B cell antigen receptor cross-linking. Lahvis GP, et al. **J Immunol** 1997 Aug 15;159(4):1783-93

Somatic mutation leads to efficient affinity maturation when centrocytes recycle back to centroblasts. Oprea M, et al. **J Immunol** 1997 Jun 1;158(11):5155-62

Dendritic cells capable of stimulating T cells in germinal centres. Grouard G, et al. **Nature** 1996 Nov 28; 384(6607):364-7

Control of inflammation, cytokine expression, and germinal center formation by BCL-6. Dent AL, et al. **Science** 1997 Apr 25;276(5312):589-92

V(D)J recombinase activity in a subset of germinal center B lymphocytes [see comments] Han S, et al. **Science** 1997 Oct 10;278(5336):301-5. Comment in: Science 1997 Oct 10;278(5336):238-9.

Reuse of B lymphocytes in germinal centers [comment] Liu YJ. **Science** 1997 Oct 10;278(5336):238-9. Comment on: Science 1997 Oct 10;278(5336):298-301. Comment on: Science 1997 Oct 10;278(5336):301-5.

Distinctive characteristics of germinal center B cells. Han S, et al. **Semin Immunol** 1997 Aug;9(4):255-60 (54 ref.)

METABOLISM

Avian germinal disc region secretes factors that stimulate proliferation and inhibit progesterone production by granulosa cells. Tischkau SA, et al. **Biol Reprod** 1996 Apr; 54(4):865-70

Failure to down-regulate Bcl-2 protein in thymic germinal center B cells in myasthenia gravis. Shiono H, et al. **Eur J Immunol** 1997 Apr;27(4):805-9

Disruption of the Bcl6 gene results in an impaired germinal center formation. Fukuda T, et al. **J Exp Med** 1997 Aug 4;186(3):439-48

Characterization of B cells expressing recombination activating genes in germinal centers of immunized mouse lymph nodes. Hikida M, et al. **J Immunol** 1997 Mar 15; 158(6):2509-12

Acetyl cholinesterase is expressed in the follicular dendritic cells of germinal centres: differences between normal and neoplastic follicles. Lampert IA, et al. **J Pathol** 1996 Oct; 180(2):169-74

PATHOLOGY

Disruption of the Bcl6 gene results in an impaired germinal center formation. Fukuda T, et al. **J Exp Med** 1997 Aug 4;186(3):439-48

PHYSIOLOGY

Apoptosis of germinal centers in postnatal development of rabbit tonsil. Kawabata I, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:60-3

Germinal center-derived signals act with Bcl-2 to decrease apoptosis and increase clonogenicity of drug-treated human B lymphoma cells. Walker A, et al. **Cancer Res** 1997 May 15;57(10):1939-45

T cells in the selection of germinal center B cells. Casamayor-Palleja M, et al. **Chem Immunol** 1997;67:27-44 (54 ref.)

The physiology of germinal centers. Tsiagbe VK, et al. **Crit Rev Immunol** 1996;16(4):381-421 (432 ref.)

Lymphotoxin-alpha-deficient and TNF receptor-I-deficient mice define developmental and functional characteristics of germinal centers. Matsumoto M, et al. **Immunol Rev** 1997 Apr;156:137-44 (40 ref.)

Germinal center founder cells display propensity for apoptosis before onset of somatic mutation. Lebecque S, et al. **J Exp Med** 1997 Feb 3;185(3):563-71

Paracrine regulation of germinal center B cell adhesion through the c-met-hepatocyte growth factor/scatter factor pathway. van der Voort R, et al. **J Exp Med** 1997 Jun 16;185(12):2121-31

Tumor necrosis factor receptor-1 signaling is required for differentiation of follicular dendritic cells, germinal center formation, and full antibody responses. Le Hir M, et al. **J Inflamm** 1995-96;47(1-2):76-80

Expression of CD23 in the germinal center of thymus from myasthenia gravis patients. Murai H, et al. **J Neuroimmunol** 1997 Jun;76(1-2):61-9

ULTRASTRUCTURE

Apoptosis of germinal centers in postnatal development of rabbit tonsil. Kawabata I, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:60-3

Cell dynamics in the germinal center of the human tonsil. Tabe H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 523:64-7

VIROLOGY

Germinal centre CD4+ T cells are an important site of HIV replication in vivo. Hufert FT, et al. **AIDS** 1997 Jun; 11(7):849-57

GERMINATION

Measurement of intracellular pH of maize seeds (Zea mays) during germination by 31P nuclear magnetic resonance spectroscopy. Barba I, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):609-20

A new method for seed oil body purification and examination of oil body integrity following germination. Tzen JT, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):762-8

Expression of a constitutively active Ca2+/calmodulin-dependent kinase in Aspergillus nidulans spores prevents germination and entry into the cell cycle. Dayton JS, et al. **J Biol Chem** 1997 Feb 7; 272(6):3223-30

Biological and chemical evaluation of chick pea seed proteins as affected by germination, extraction and alpha-amylase treatment. Mansour EH. **Plant Foods Hum Nutr** 1996 Jun; 49(4):271-82

Molecular cloning of cDNAs encoding (1-->4)-beta-xylan endohydrolases from the aleurone layer of germinated barley (Hordeum vulgare). Banik M, et al. **Plant Mol Biol** 1996 Sep;31(6):1163-72

Characterization of a maize beta-amylase cDNA clone and its expression during seed germination. Wang SM, et al. **Plant Physiol** 1997 Feb;113(2):403-9

DRUG EFFECTS

[Effects of sand and hormone treatment on seed germination of Bupleurum chinese DC. and B. falcatum L.] Deng Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr; 21(4):208-10, 255 (Eng. Abstr.) **(Chi)**

GENETICS

A new method for the identification and isolation of genes essential for Arabidopsis thaliana seed germination. Dubreucq B, et al. **Mol Gen Genet** 1996 Aug 27; 252(1-2):42-50

A molecular study of dormancy breaking and germination in seeds of Trollius ledebouri. Bailey PC, et al. **Plant Mol Biol** 1996 Nov;32(3):559-64

Regulation of two loblolly pine (Pinus taeda L.) isocitrate lyase genes in megagametophytes of mature and stratified seeds and during postgerminative growth. Mullen RT, et al. **Plant Mol Biol** 1997 Mar;33(4):593-604

Seed germination of Arabidopsis thaliana phyA/phyB double mutants is under phytochrome control. Poppe C, et al. **Plant Physiol** 1997 Aug;114(4):1487-92

PHYSIOLOGY

Cloning and characterization of a cDNA encoding a maize seedling phytase. Maugenest S, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):511-7

The effect of humidity on germination and infection of termites by the hyphomycete, Metarhizium anisopliae. Milner RJ, et al. **J Invertebr Pathol** 1997 Jan;69(1):64-9

Changes of enzymes and factors involved in DNA synthesis during wheat embryo germination. Benedetto JP, et al. **Plant Mol Biol** 1996 Sep;31(6):1217-25

From seed germination to flowering, light controls plant development via the pigment phytochrome. Chory J, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12066-71 (63 ref.)

RADIATION EFFECTS

Effects of heavy ions on the germination and survival of Arabidopsis thaliana. Tanaka A, et al. **Int J Radiat Biol** 1997 Jul;72(1):121-7

GERMINOBLASTOMA see **LYMPHOMA**

GERMINOMA

Results of treatment in testicular nonseminoma. Mäenpää H, et al. **Ann Med** 1996 Aug;28(4):311-4

Spontaneous regression of primary intracranial germinoma. A case report. Ide M, et al. **Cancer** 1997 Feb 1;79(3):558-63

Primary mediastinal germ cell tumor with intratubular germ cell neoplasia of the testis--further support for germ cell origin of these tumors: a case report [letter]. Lee KC. **Cancer** 1997 Sep 1;80(5):1007-8

Testicular cancer. Oliver RT. **Curr Opin Oncol** 1996 May; 8(3):252-8 (52 ref.)

Paediatric surgical oncology. 7--germ cell tumours. Gornall P. **Eur J Surg Oncol** 1997 Feb;23(1):68-72 (17 ref.)

Diagnosis and management of malignant germ cell ovarian tumors in young females. Zalel Y, et al. **Int J Gynaecol Obstet** 1996 Oct;55(1):1-10 (64 ref.)

Mixed germ cell malignancy of the ovary concurrent with pregnancy. Horbelt D, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):662-4

Synchronous bilateral testicular tumour: nonseminomatous germ cell tumours and contralateral benign tumours. Heidenreich A, et al. **Scand J Urol Nephrol** 1997 Aug; 31(4):389-92

[Primary mediastinal non-seminomatous germ-cell tumors: from clinics to biology] Fizazi K, et al. **Bull Cancer** 1997 Mar;84(3):313-27 (142 ref.) (Eng. Abstr.) **(Fre)**

[Burned out testicular tumor] Donderis Guastavino C, et al. **Arch Esp Urol** 1997 Mar;50(2):196-8 (Eng. Abstr.) **(Spa)**

[Extragonadal germinal tumor] Vesga Molina F, et al. **Arch Esp Urol** 1997 May;50(4):407-9 (Eng. Abstr.) **(Spa)**

[Primary germ cell tumors of the central nervous system] Losa F, et al. **Neurologia** 1997 Jun-Jul;12(6):249-54 (30 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Importance of a new tumor marker TRA-1-60 in the follow-up of patients with clinical stage I nonseminomatous testicular germ cell tumors. Gels ME, et al. **Ann Surg Oncol** 1997 Jun;4(4):321-7

Germ cell tumors express a specific alpha-fetoprotein variant detectable by isoelectric focusing. Johnson PJ, et al. **Cancer** 1995 Apr 1;75(7):1663-8

Considerable plasma levels of a cytotoxic etoposide metabolite in patients undergoing high-dose chemotherapy [letter] Stremetzne S, et al. **Eur J Cancer** 1997 May; 33(6):978-9

CHEMICALLY INDUCED

Relapse of intracranial germinoma 23 years postirradiation in a patient given growth hormone replacement. Kiltie AE, et al. **Med Pediatr Oncol** 1997 Jul;29(1):41-4

CHEMISTRY

MIB-1 immunohistochemistry in clinical stage I nonseminomatous testicular germ cell tumors predicts patients at low risk for metastasis [see comments] Albers P, et al. **Cancer** 1997 May 1;79(9):1710-6. Comment in: Cancer 1997 May 1;79(9):1641-5.

Differential expression of p53, c-kit, and CD34 in prepubertal and postpubertal testicular germ cell tumors. Chou PM, et al. **Cancer** 1997 Jun 15;79(12):2430-4

CLASSIFICATION

International Germ Cell Consensus Classification: a prognostic factor-based staging system for metastatic germ cell cancers. International Germ Cell Cancer Collaborative Group. **J Clin Oncol** 1997 Feb;15(2):594-603

COMPLICATIONS

Testicular microlithiasis and subsequent development of metastatic germ cell tumor. Frush DP, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):889-90

Pseudo-Meigs' syndrome secondary to an ovarian germ cell tumor. Bridgewater JA, et al. **Gynecol Oncol** 1997 Sep; 66(3):539-41

Systemic mastocytosis following a malignant ovarian germ cell tumour. Delacrétaz F, et al. **Histopathology** 1997 Jun; 30(6):582-4

The occurrence of germ cell malignancies in two patients positive for HIV antibodies. Ellis PM, et al. **Int J STD AIDS** 1997 Aug;8(8):526-7

Localization by venous sampling of occult chorionic gonadotropin-secreting tumor in a boy with mosaic Klinefelter's syndrome and precocious puberty. Leschek EW, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3825-8

Idiopathic hypothalamic diabetes insipidus, pituitary stalk thickening, and the occult intracranial germinoma in children and adolescents. Mootha SL, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1362-7

Intracranial germinoma with Down's syndrome: a case report and review of the literature. Tanabe M, et al. **Surg Neurol** 1997 Jan;47(1):28-31 (18 ref.)

Diffuse testicular microlithiasis associated with intratubular germ cell neoplasia and seminoma. Kaveggia FF, et al. **Urology** 1996 Nov;48(5):794-6

Testicular microlithiasis as a predictor of intratubular germ cell neoplasia. Parra BL, et al. **Urology** 1996 Nov; 48(5):797-9

[Non-seminomatous germ cell tumor of the testis and pulmonary Langerhans-cell histiocytosis: a fortuitous association? (letter)] de Pinieux G, et al. **Presse Med** 1997 Feb 8;26(3):118-9 **(Fre)**

DIAGNOSIS

Primary mediastinal germ cell tumour. Soh LT, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):192-5

A new approach using tissue alkaline phosphatase activity to identify early testicular cancer. Dabare AA, et al. **Br J Urol** 1997 Mar;79(3):455-60

The role of tumour markers in the diagnosis and treatment of testicular germ cell cancers. Doherty AP, et al. **Br J Urol** 1997 Feb;79(2):247-52 (41 ref.)

Abdominal mass in a young woman. Pitfalls and delayed diagnosis. Case report. Barrenetxea G, et al. **Eur J Gynaecol Oncol** 1996;17(6):507-9 (17 ref.)

Case report: mixed germ cell tumour of the ovary presenting as a missed abortion. Vergote IB, et al. **Eur J Gynaecol Oncol** 1996;17(6):518-9

Serum and tissue levels of manganese superoxide dismutase in testicular germ cell tumors. Koshida K, et al. **Eur Urol** 1996;29(4):487-90

Simultaneous presentation of pineal germinoma and testicular seminoma [letter] Chan TK, et al. **Eye** 1996;10 (Pt 5):637-9

Pseudo-Meigs' syndrome secondary to an ovarian germ cell tumor. Bridgewater JA, et al. **Gynecol Oncol** 1997 Sep; 66(3):539-41

Histologic diagnostics of early testicular germ-cell tumor. Holstein AF, et al. **Int J Urol** 1996 May;3(3):165-72 (38 ref.)

Localization by venous sampling of occult chorionic gonadotropin-secreting tumor in a boy with mosaic Klinefelter's syndrome and precocious puberty. Leschek EW, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3825-8

Intrasellar and suprasellar germinoma. Lin CL, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jul; 13(7):462-6

Endoscopic management of a pineal and suprasellar germinoma with associated hydrocephalus: technical case report. Ellenbogen RG, et al. **Minim Invasive Neurosurg** 1997 Mar;40(1):13-5; discussion 16

Germinoma arising in the basal ganglia in early stage: CT and MR findings. Yamana D, et al. **Radiat Med** 1995 Nov-Dec;13(6):305-8 (30 ref.)

Nonseminomatous germ cell tumor of the testis. Matthews GJ, et al. **Urology** 1997 Jan;49(1):117-8

[Prognostic factors in patients with disseminated germ cell tumors] Daugaard KG, et al. **Ugeskr Laeger** 1997 Sep 15; 159(38):5676-7 **(Dan)**

[Upper gastrointestinal bleeding as the first manifestation of a nonseminomatous testicular carcinoma] Weidmann B, et al. **Dtsch Med Wochenschr** 1996 Nov 15;121(46):1428-32 (33 ref.) (Eng. Abstr.) **(Ger)**

[Primary malignant mediastinal germ cell tumor causing pericardial effusion] Edoute Y, et al. **Harefuah** 1996 Aug; 131(3-4):88-9, 143 (Eng. Abstr.) **(Heb)**

[Radiologic staging after surgical, chemical, and radiation treatment of non-seminomatous tumors of the testis] Gualdi GF, et al. **Arch Ital Urol Androl** 1997 Feb;69 Suppl 1:9-14 (Eng. Abstr.) **(Ita)**

[Burned-out tumor and carcinoma-in-situ of the testis mimicking an extragonadal germ cell tumor: a case report] Kayada K, et al. **Hinyokika Kiyo** 1996 Aug;42(8):613-6 (Eng. Abstr.) **(Jpn)**

[Otoneurological symptoms and their changes after removal of pineal tumors] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1997;(3):18-24 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Cisplatin-based chemotherapy in a renal transplant recipient with metastatic germ cell testicular cancer. Dahl O, et al. **Acta Oncol** 1996;35(6):759-61

A phase II trial of VP-16, ifosfamide, cisplatin, vinblastine, and bleomycin in advanced germ-cell tumors. Blanke C, et al. **Am J Clin Oncol** 1996 Oct;19(5):487-91

A randomized trial of cisplatin, etoposide and bleomycin (PEB) versus carboplatin, etoposide and bleomycin (CEB) for patients with 'good-risk' metastatic non-seminomatous germ cell tumors. Bokemeyer C, et al. **Ann Oncol** 1996 Dec;7(10):1015-21

Phase II study of paclitaxel in patients with relapsed or cisplatin-refractory testicular cancer. Bokemeyer C, et al. **Ann Oncol** 1996 Jan;7(1):31-4

Treatment of men with metastatic non-seminomatous germ cell tumours with cyclical POMB/ACE chemotherapy. Bower M, et al. **Ann Oncol** 1997 May;8(5):477-83

High-dose chemotherapy in germ-cell tumors. Droz JP, et al. **Ann Oncol** 1996 Dec;7(10):997-1003 (65 ref.)

Postchemotherapy resections of residual masses from metastatic non-seminomatous testicular germ cell tumors. Hartmann JT, et al. **Ann Oncol** 1997 Jun;8(6):531-8

Mediastinal non-seminomatous germ cell tumours (MNSGCT) treated with cisplatin-based combination chemotherapy. Hidalgo M, et al. **Ann Oncol** 1997 Jun; 8(6):555-9

Carboplatin in the combination chemotherapy of non-seminomatous germ cell tumours [editorial] Horwich A, et al. **Ann Oncol** 1996 Dec;7(10):989-91

Amifostine does not alter the antitumor activity of cisplatin in a pre-clinical model of testicular cancer. Dunn TA, et al. **Anticancer Drugs** 1996 Sep;7(7):795-9

Prognosis after high-dose chemotherapy in patients with germ cell tumors. Beyer J, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S61-2

The ICE regimen (ifosfamide, carboplatin, etoposide) for the treatment of germ-cell tumors and metastatic trophoblastic disease. Lotz JP, et al. **Bone Marrow Transplant** 1996 Sep; 18 Suppl 1:S55-9

High-dose chemotherapy for germ cell tumors (GCT): Memorial Sloan Kettering Cancer Center. Motzer RJ. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S53-4

Early utilization of high-dose chemotherapy in germ cell tumors. Nichols CR. **Bone Marrow Transplant** 1996 Sep; 18 Suppl 1:S50-2

High-dose chemotherapy as salvage treatment for germ cell tumors. The ongoing IT94 study. Pico JL, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S63-6 (31 ref.)

High-dose chemotherapy and ASCR of patients with relapsed or refractory germ cell tumors: long-term follow-up. Siegert W, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S60

Management preferences in stage I non-seminomatous germ cell tumours of the testis: an investigation among patients, controls and oncologists. Cullen MH, et al. **Br J Cancer** 1996 Nov;74(9):1487-91

Advances in the management of metastatic non-seminomatous germ cell tumours during the cisplatin era: a single-institution experience. Gerl A, et al. **Br J Cancer** 1996 Oct;74(8):1280-5

Gonadal atrophy as a cause of thymic hyperplasia after chemotherapy [letter] Sperandio P, et al. **Br J Cancer** 1996 Sep;74(6):991-2

Non-lymphocytic leukaemia following chemotherapy of a germ cell tumour. Sessler R, et al. **Br J Urol** 1997 Jan; 79(1):140-1

Evaluation of long-term results of a modified VAB-6 chemotherapy regimen in a cohort of good-risk metastatic non seminomatous germ-cell tumors. Culine S, et al. **Bull Cancer** 1997 Apr;84(4):368-72

Long-term survival of patients with recurrent or refractory germ cell tumors after high dose chemotherapy. Beyer J, et al. **Cancer** 1997 Jan 1;79(1):161-8

Adjuvant therapy for stage I testicular cancer. Cullen M, et al. **Cancer Treat Rev** 1996 Jul;22(4):253-64 (38 ref.)

Pulmonary toxicity in patients with advanced-stage germ cell tumors receiving bleomycin with and without granulocyte colony stimulating factor. Saxman SB, et al. **Chest** 1997 Mar;111(3):657-60

Chemotherapy in adult germ cell tumors. Culine S, et al. **Crit Rev Oncol Hematol** 1996 Apr;22(3):229-63 (398 ref.)

Ukrain treatment in a patient with non-seminomatous germ-cell tumour of testis (case report). Sakalo VS, et al. **Drugs Exp Clin Res** 1996;22(3-5):263-5

Chemotherapy-induced myocardial infarction [letter] Law H. **Eur Heart J** 1996 Jun;17(6):966-7 (7 ref.)

POMB/ACE chemotherapy for mediastinal germ cell tumours [see comments] Bower M, et al. **Eur J Cancer** 1997 May;33(6):838-42. Comment in: Eur J Cancer 1997 May;33(6):809-11.

POMB/ACE chemotherapy for mediastinal germ-cell tumours [editorial; comment] Droz JP. **Eur J Cancer** 1997 May;33(6):809-11. Comment on: Eur J Cancer 1997 May;33(6):838-42.

Activity of gemcitabine in platinum-resistant ovarian germ cell cancer [letter] Maas K, et al. **Eur J Cancer** 1996 Jul; 32A(8):1437-8

Surveillance versus adjuvant chemotherapy in stage I non-seminomatous testicular cancer: a decision analysis. Stiggelbout AM, et al. **Eur J Cancer** 1996 Dec; 32A(13):2267-74

Remission of recurrent mixed germ cell tumor of the ovary after treatment with vincristine, carboplatin, fluorouracil, and ifosfamide: a case report and review of the literature. Balat O, et al. **Eur J Gynaecol Oncol** 1996;17(5):342-4 (20 ref.)

Future trials in germ cell malignancy (GCM) of the testis. Oliver RT. **Eur J Surg Oncol** 1997 Apr;23(2):117-22 (29 ref.)

Treatment in germ cell tumours: state of the art. Tjan-Heijnen VC, et al. **Eur J Surg Oncol** 1997 Apr; 23(2):110-7 (77 ref.)

Fertility after chemotherapy for testicular germ cell cancer. Pont J, et al. **Fertil Steril** 1997 Jul;68(1):1-5 (45 ref.)

Cisplatin-based chemotherapy in the management of germ cell tumors of the ovary: The Institut Gustave Roussy Experience. Culine S, et al. **Gynecol Oncol** 1997 Jan; 64(1):160-5

Cisplatin, vincristine, methotrexate, peplomycin, etoposide (COMPE) therapy for disseminated germ cell testicular tumors. Yoshimura K, et al. **Int J Urol** 1997 Jan;4(1):47-51

In vitro drug sensitivity testing of human testicular germ cell tumours with cytostatic drugs and interferon alpha-2b. Küpeli B, et al. **Int Urol Nephrol** 1997;29(1):79-84

Comparative cytotoxicity of oxaliplatin and cisplatin in non-seminomatous germ cell cancer cell lines. Dunn TA, et al. **Invest New Drugs** 1997;15(2):109-14

Pre-clinical activity of taxol in non-seminomatous germ cell tumor cell lines and nude mouse xenografts. Dunn TA, et al. **Invest New Drugs** 1997;15(2):91-8

Bleomycin in germ cell tumor therapy: not all regimens are created equal [editorial; comment] Bajorin DF, et al. **J Clin Oncol** 1997 May;15(5):1717-9. Comment on: J Clin Oncol 1997 May;15(5):1837-43.

Chemotherapy without irradiation--a novel approach for newly diagnosed CNS germ cell tumors: results of an international cooperative trial. The First International Central Nervous System Germ Cell Tumor Study. Balmaceda C, et al. **J Clin Oncol** 1996 Nov;14(11):2908-15

High-dose chemotherapy as salvage treatment in germ cell tumors: a multivariate analysis of prognostic variables [see comments] Beyer J, et al. **J Clin Oncol** 1996 Oct; 14(10):2638-45. Comment in: J Clin Oncol 1996 Oct;14(10):2625-6.

Importance of bleomycin in combination chemotherapy for good-prognosis testicular nonseminoma: a randomized study of the European Organization for Research and Treatment of Cancer Genitourinary Tract Cancer Cooperative Group [see comments] de Wit R, et al. **J Clin Oncol** 1997 May;15(5):1837-43. Comment in: J Clin Oncol 1997 May;15(5):1717-9.

Randomized trial of bleomycin, etoposide, and cisplatin compared with bleomycin, etoposide, and carboplatin in good-prognosis metastatic nonseminomatous germ cell cancer: a Multiinstitutional Medical Research Council/European Organization for Research and Treatment of Cancer Trial. Horwich A, et al. **J Clin Oncol** 1997 May;15(5):1844-52

Fertility after chemotherapy for testicular germ cell cancers. Lampe H, et al. **J Clin Oncol** 1997 Jan;15(1):239-45

Ifosfamide- and cisplatin-containing chemotherapy as first-line salvage therapy in germ cell tumors: response and survival. McCaffrey JA, et al. **J Clin Oncol** 1997 Jul; 15(7):2559-63

Treatment of germ cell cancer with two cycles of high-dose ifosfamide, carboplatin, and etoposide with autologous stem-cell support [see comments] Margolin BK, et al. **J Clin Oncol** 1996 Oct;14(10):2631-7. Comment in: J Clin Oncol 1996 Oct;14(10):2625-6.

Selecting patients with cisplatin-resistant germ cell tumors for high-dose chemotherapy [editorial; comment] Motzer RJ. **J Clin Oncol** 1996 Oct;14(10):2625-6. Comment on: J Clin Oncol 1996 Oct;14(10):2631-7. Comment on: J Clin Oncol 1996 Oct;14(10):2638-45.

High-dose carboplatin, etoposide, and cyclophosphamide with autologous bone marrow transplantation in first-line therapy for patients with poor-risk germ cell tumors. Motzer RJ, et al. **J Clin Oncol** 1997 Jul;15(7):2546-52

Sexual dysfunction in nonseminoma testicular cancer patients is related to chemotherapy-induced angiopathy. van Basten JP, et al. **J Clin Oncol** 1997 Jun;15(6):2442-8 (55 ref.)

Long-term follow-up of patients with good-risk germ cell tumors treated with etoposide and cisplatin. Xiao H, et al. **J Clin Oncol** 1997 Jul;15(7):2553-8

Gonadal function of patients treated with cisplatin based chemotherapy for germ cell cancer. Brennemann W, et al. **J Urol** 1997 Sep;158(3 Pt 1):844-50

Are 3 cycles of bleomycin, etoposide and cisplatin or 4 cycles of etoposide and cisplatin equivalent optimal regimens for patients with good risk metastatic germ cell tumors of the testis? The need for a randomized trial. Culine S, et al. **J Urol** 1997 Mar;157(3):855-8; discussion 858-9

Residual masses after chemotherapy for metastatic testicular

cancer: the clinical implications of the association between retroperitoneal and pulmonary histology. Re-analysis of Histology in Testicular Cancer (ReHiT) Study Group. Steyerberg EW, et al. **J Urol** 1997 Aug;158(2):474–8 (23 ref.)

Phase I/II trial of carboplatin dose escalation in combination chemotherapy with etoposide, bleomycin and GM-CSF support for poor prognosis nonseminomatous germ cell tumors patients. Tjulandin SA, et al. **Neoplasma** 1996; 43(5):347–52

Growing teratoma syndrome after chemotherapy for germ cell tumors of the ovary. Geisler JP, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):719–21 (9 ref.)

Bleomycin and cyclophosphamide toxicity simulating metastatic nodules to the lungs in childhood cancer. Ben Arush MW, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug; 14(4):381–6

Primary chemotherapy: how does it compare with surgery? Horwich A. **Semin Urol Oncol** 1996 Feb;14(1):34–5

Adjuvant chemotherapy for stage II nonseminomatous testicular cancer: what is its role? Motzer RJ. **Semin Urol Oncol** 1996 Feb;14(1):30–3 (28 ref.)

A modified BEP protocol: reduction of hospitalization without reducing the efficacy. Ozen H, et al. **Urol Int** 1997; 58(1):50–4

Gynecomastia as a complication of chemotherapy for testicular germ cell tumors. Aki FT, et al. **Urology** 1996 Dec;48(6):944–6

Late relapse of nonseminomatous germ cell tumor of the testis: successful treatment with salvage chemotherapy alone. Papadimitris C, et al. **Urology** 1997 Mar;49(3):469–70 (7 ref.)

The role of paclitaxel in chemosensitive urological malignancies: current strategies in bladder cancer and testicular germ-cell tumors. Bokemeyer C, et al. **World J Urol** 1996;14(6):354–9 (37 ref.)

[Chemotherapy of germ-cell tumors of poor prognosis and role of intensification with hematological support] Droz JP, et al. **Presse Med** 1996 Nov 16;25(35):1673–6 (25 ref.) (Eng. Abstr.) **(Fre)**

[Two cases of relapse or refractory germ cell tumor who had been treated with combination chemotherapy of cisplatin and carboplatin] Kiyama Y, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1989–92 (Eng. Abstr.) **(Jpn)**

[Effective administration of recombinant granulocyte colony-stimulating factor to prevent granulocytopenia due to combination chemotherapy for testicular germ cell tumors] Nonomura K, et al. **Hinyokika Kiyo** 1996 Sep; 42(9):699–704 (Eng. Abstr.) **(Jpn)**

EMBRYOLOGY

Intracranial germ cell tumors: a comprehensive review of proposed embryologic derivation. Glenn OA, et al. **Pediatr Neurosurg** 1996;24(5):242–51 (88 ref.)

ENZYMOLOGY

Simultaneous detection of all four alkaline phosphatase isoenzymes in human germ cell tumors using reverse transcription-PCR. Schär BK, et al. **Cancer Res** 1997 Sep 1;57(17):3841–6

EPIDEMIOLOGY

Late relapse of germ cell tumors after cisplatin-based chemotherapy. Gerl A, et al. **Ann Oncol** 1997 Jan;8(1):41–7 (28 ref.)

Full-term pregnancies and incidence of ovarian cancer of stromal and germ cell origin: a Norwegian prospective study. Albrektsen G, et al. **Br J Cancer** 1997;75(5):767–70

Risk of cancer in migrants and their descendants in Israel: II. Carcinomas and germ-cell tumours. Parkin DM, et al. **Int J Cancer** 1997 Mar 17;70(6):654–60

Prevalence of contralateral testicular intraepithelial neoplasia in patients with testicular germ cell neoplasms. Dieckmann KP, et al. **J Clin Oncol** 1996 Dec;14(12):3126–32

Extragonadal germ cell tumours in Mangalore with review of the literature. Pai MR, et al. **J Indian Med Assoc** 1996 Aug;94(8):294–5, 310

Parental occupational exposure and the risk of testicular cancer in Ontario. Knight JA, et al. **J Occup Environ Med** 1997 Apr;39(4):333–8

ETIOLOGY

Origin of germ cell tumours [letter; comment] Catala M. **Br J Neurosurg** 1996 Aug;10(4):421–2. Comment on: Br J Neurosurg 1995;9(3):391–401.

[A case of testicular tumor in a patient with Down's syndrome: a case report] Nakamura K, et al. **Hinyokika Kiyo** 1996 Oct;42(10):747–9 (14 ref.) (Eng. Abstr.) **(Jpn)**

[CA19-9 producing mixed gonadal germ-cell tumor in undescended testis located in abdomen. A case report] Nomata K, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug;87(8):1064–7 (Eng. Abstr.) **(Jpn)**

[A 29-year-old man with diabetes insipidus and cerebellar ataxia and development of spinal cord swelling 15 years after the onset (clinical conference)] Ohkuma Y, et al. **No To Shinkei** 1997 May;49(5):473–81 (Eng. Abstr.) **(Jpn)**

GENETICS

Methylation similarities of two CpG sites within exon 5 of human H19 between normal tissues and testicular germ cell tumours of adolescents and adults, without correlation with allelic and total level of expression. Gillis AJ, et al. **Br J Cancer** 1997;76(6):725–33

An excess of testicular germ cell tumors in Down's syndrome: three case reports and a review of the literature. Satgé D, et al. **Cancer** 1997 Sep 1;80(5):929–35 (56 ref.)

Use of fluorescence in situ hybridization and comparative genomic hybridization in the cytogenetic analysis of testicular germ cell tumors and uveal melanomas. Becher R, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):22–8 (70 ref.)

Ovarian germ cell tumor with chromosome 12 anomaly but without i(12p). Dal Cin P, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):61–4

Isochromosome 12p and maternal loss of 1p36 in a pediatric testicular germ cell tumor. Stock C, et al. **Cancer Genet Cytogenet** 1996 Oct 15;91(2):95–100

Cytogenetics of primary testicular nonseminoma, residual mature teratoma, and growing teratoma lesion in individual patients. van Echten J, et al. **Cancer Genet Cytogenet** 1997 Jul 1;96(1):1–6

Targeted overexpression of Bcl-2 in ovaries of transgenic mice leads to decreased follicle apoptosis, enhanced folliculogenesis, and increased germ cell tumorigenesis. Hsu SY, et al. **Endocrinology** 1996 Nov;137(11):4837–43

Paternity in patients with bilateral testicular germ cell tumors. Heidenreich A, et al. **Eur Urol** 1997;31(2):246–8

Detection of chromosomal DNA gains and losses in testicular germ cell tumors by comparative genomic hybridization. Korn WM, et al. **Genes Chromosomes Cancer** 1996 Oct; 17(2):78–87

Deletion of 1p36 in childhood endodermal sinus tumors by two-color fluorescence in situ hybridization: a pediatric oncology group study. Perlman EJ, et al. **Genes Chromosomes Cancer** 1996 May;16(1):15–20

Monosomy 22 in a mixed germ cell-sex cord-stromal tumor of the ovary. Speleman F, et al. **Genes Chromosomes Cancer** 1997 Jul;19(3):192–4

Physical mapping of a commonly deleted region, the site of a candidate tumor suppressor gene, at 12q22 in human male germ cell tumors. Murty VV, et al. **Genomics** 1996 Aug 1;35(3):562–70

DNA repair capacity and cisplatin sensitivity of human testis tumour cells. Köberle B, et al. **Int J Cancer** 1997 Mar 4; 70(5):551–5

Familial predisposition to both male and female germ cell tumours? [letter] Huddart RA, et al. **J Med Genet** 1996 Jan;33(1):86

Immunohistochemical expression of Ki-67 to predict lymph node involvement in clinical stage I nonseminomatous germ cell tumors. Heidenreich A, et al. **J Urol** 1997 Aug; 158(2):620–5

DNA pooling as a quick method for finding candidate linkages in multigenic trait analysis: an example involving susceptibility to germ cell tumors. Collin GB, et al. **Mamm Genome** 1996 Jan;7(1):68–70

Mixed testicular germ cell tumors: monoclonal or polyclonal. van Echten J, et al. **Mod Pathol** 1996 Apr;9(4):371–4

HISTORY

Summary of distribution of retroperitoneal lymph node metastases in testicular germinal tumors (by Biswamay Ray, MD, Steven I. Hajdu, MD, and Willet F. Whitmore, Jr, MD). 1974. Ray B, et al. **Semin Urol Oncol** 1997 May; 15(2):130–5

IMMUNOLOGY

Quantification of immunocompetent cells in testicular germ cell tumours. Torres A, et al. **Histopathology** 1997 Jan; 30(1):23–30

METABOLISM

Germ cell tumors of the testis overexpress wild-type p53. Guillou L, et al. **Am J Pathol** 1996 Oct;149(4):1221–8

Bax upregulation is an early event in cisplatin-induced apoptosis in human testicular germ-cell tumor cell line NT2, as quantitated by flow cytometry. Boersma AW, et al. **Cytometry** 1997 Mar 1;27(3):275–82

Estrogen metabolism and impaired spermatogenesis in germ cell tumors of the testis. Nakazumi H, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1289–95

Kallikreins expression in a mature cystic ovarian teratoma. Tremblay RR, et al. **J Clin Lab Anal** 1996;10(4):229–31

Tumor markers in hydrocele fluids of patients with benign and malignant scrotal diseases. Dorfinger K, et al. **J Urol** 1997 Sep;158(3 Pt 1):851–5

Expression of teratocarcinoma-derived growth factor-1 (TDGF-1) in testis germ cell tumors and its effects on growth and differentiation of embryonal carcinoma cell line NTERA2/D1. Baldassarre G, et al. **Oncogene** 1997 Aug 18;15(8):927–36

MORTALITY

Survival of patients with viable malignant non-seminomatous germ cell tumour persistent after cisplatin-based induction chemotherapy. Hollender A, et al. **Eur Urol** 1997; 31(2):141–7

Mortality in testicular cancer: 10 years' experience at a single centre. Germa JR, et al. **Urol Int** 1996;57(1):32–7

PATHOLOGY

Primitive neuroectodermal tumors arising in testicular germ cell neoplasms. Michael H, et al. **Am J Surg Pathol** 1997 Aug;21(8):896–904

Full-term pregnancies and incidence of ovarian cancer of stromal and germ cell origin: a Norwegian prospective study. Albrektsen G, et al. **Br J Cancer** 1997;75(5):767–70

Case of the month. April 1996—pituitary tumor. Kohler L. **Brain Pathol** 1996 Oct;6(4):531–2

MIB-1 immunohistochemistry in clinical stage I nonseminomatous testicular germ cell tumors predicts patients at low risk for metastasis [see comments] Albers P, et al. **Cancer** 1997 May 1;79(9):1710–6. Comment in: Cancer 1997 May 1;79(9):1641–5.

Primary mediastinal germ cell tumor with intratubular germ cell neoplasia of the testis—further support for germ cell origin of these tumors: a case report. Hailemariam S, et al. **Cancer** 1997 Mar 1;79(5):1031–6 (43 ref.)

Prognostic risk factors in low stage testicular germ cell tumors: unanswered questions regarding clinically useful prognosticators for extratesticular disease [editorial; comment] Heidenreich A, et al. **Cancer** 1997 May 1; 79(9):1641–5; discussion 1646 (17 ref.). Comment on: Cancer 1997 May 1;79(9):1710–6.

Histologically confirmed pineal tumors and other germ cell tumors of the brain. Schild SE, et al. **Cancer** 1996 Dec 15;78(12):2564–71

Cytology of germ cell tumors: extragonadal, extracranial masses and intraoperative problems. Stanley MW, et al. **Cancer** 1997 Aug 25;81(4):220–7

Residual pulmonary masses after chemotherapy for metastatic nonseminomatous germ cell tumor. Prediction of histology. ReHiT Study Group. Steyerberg EW, et al. **Cancer** 1997 Jan 15;79(2):345–55

Germ cell tumors of the brain in children: a review of current literature and new advances in therapy. Kretschmar CS. **Cancer Invest** 1997;15(2):187–98 (94 ref.)

Retroperitoneal lymphadenectomy in staging and treatment of clinical stage I and II nonseminomatous testis cancer (NSGCT): the development of nerve-sparing techniques. Donohue JP. **Cancer Treat Res** 1996;88:105–19 (20 ref.)

Multiple intracranial mixed germ cell tumors. Kumabe T, et al. **Childs Nerv Syst** 1997 Mar;13(3):178–81

Germ cell tumors of the ovary. Talerman A. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):44–7 (18 ref.)

Comparison of histological results from the resection of residual masses at different sites after chemotherapy for metastatic non-seminomatous germ cell tumours. Hartmann JT, et al. **Eur J Cancer** 1997 May;33(6):843–7

Malignant germ cell tumours in childhood. Pinkerton CR. **Eur J Cancer** 1997 May;33(6):895–901; discussion 901–2 (15 ref.)

A pure brain metastasis of choriocarcinoma from a mixed germ cell tumor of the ovary. Adcock LL, et al. **Gynecol Oncol** 1997 Feb;64(2):252–5

Endodermal sinus tumor and embryonal carcinoma of the ovary in a 53-year-old woman. Kammerer-Doak D, et al. **Gynecol Oncol** 1996 Oct;63(1):133–7

Quantification of immunocompetent cells in testicular germ cell tumours. Torres A, et al. **Histopathology** 1997 Jan; 30(1):23–30

Primary intrasellar germinoma—case report. Radhakrishnan VV, et al. **Indian J Pathol Microbiol** 1995 Apr;38(2):207–8

Incidence of testicular mononuclear cell infiltrates in normal human males and in patients with germ cell neoplasia. Jahnukainen K, et al. **Int J Androl** 1995 Dec;18(6):313–20

Prognosis of intracranial germinoma with syncytiotrophoblastic giant cells treated by radiation therapy. Shibamoto Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):505–10

Surveillance policy for stage I ovarian germ cell tumors. Dark GG, et al. **J Clin Oncol** 1997 Feb;15(2):620–4

Primary intracranial germ cell tumors: a clinical analysis of 153 histologically verified cases. Matsutani M, et al. **J Neurosurg** 1997 Mar;86(3):446–55

Is biopsy of the contralateral testis necessary in patients with germ cell tumors? Herr HW, et al. **J Urol** 1997 Oct; 158(4):1331–4 (29 ref.)

Establishment of three monoclonal antibodies specific for prespermatogonia and intratubular malignant germ cells in humans. Hiraoka N, et al. **Lab Invest** 1997 Mar;76(3):427–38

Mixed testicular germ cell tumors: monoclonal or polyclonal. van Echten J, et al. **Mod Pathol** 1996 Apr;9(4):371–4

The value of prognostic factors in the management of stage I nonseminomatous germ cell testicular tumors (NSGCTT). Ondruš D, et al. **Neoplasma** 1996;43(3):195–7

Management of germ cell testicular cancer with pulmonary metastases. Schnorrer M, et al. **Neoplasma** 1996;43(1):47–50

Germinoma of the optic nerve: case report. Iizuka H, et al. **Noshuyo Byori** 1996 Nov;13(2):95–8

Prognostic factors in low-stage nonseminomatous testicular cancer. Moul JW, et al. **Oncology (Huntingt)** 1996 Sep; 10(9):1359–68, 1374; discussion 1377–8 (65 ref.)

Mixed germ-cell tumor of the brain. Pathologic study of six autopsy cases. Ikura Y, et al. **Pathol Res Pract** 1996 Jun;192(6):595–603

Malignant germ cell tumor and urticaria pigmentosa. Drut R. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):163–8

Primary intracranial germ cell tumors: clinicopathologic

review of 32 cases. Salzman KL, et al. **Pediatr Pathol Lab Med** 1997 Sep-Oct;17(5):713-27 (23 ref.)

A fetus with Down syndrome and intratubular germ cell neoplasia. Satgé D, et al. **Pediatr Pathol Lab Med** 1996 Jan-Feb;16(1):107-12

Should the other testis be biopsied? Daugaard G, et al. **Semin Urol Oncol** 1996 Feb;14(1):8-12 (36 ref.)

Testicular cancer: what staging investigations are indicated? Richie JP. **Semin Urol Oncol** 1996 Feb;14(1):13-6 (20 ref.)

What does the pathology report really mean? Ro JY, et al. **Semin Urol Oncol** 1996 Feb;14(1):2-7

Intracranial germinoma metastasizing via a ventriculo-peritoneal shunt. Wong KT, et al. **Singapore Med J** 1996 Aug;37(4):441-2 (13 ref.)

Neoplasms of the pineal region. Prahlow JA, et al. **South Med J** 1996 Nov;89(11):1081-7

Telomerase activity and phenotypic characterization in harvested bone marrow from a child with a germline cell cancer. Russo DA, et al. **Transplant Proc** 1997 Jun; 29(4):2002

Detection of vital germ cell tumor cells in short-term cell cultures of primary tumors and of retroperitoneal metastasis--clinical implications. Otto T, et al. **Urol Res** 1997;25(2):121-4

Biology of metastases and its clinical implications: testicular germ-cell tumors. Donohue JP, et al. **World J Urol** 1996; 14(3):197-203 (17 ref.)

[Retroperitoneal extragonadal germ cell tumors: apropos of 4 cases. The importance of research of an occult testicular lesion] Houlgatte A, et al. **Prog Urol** 1996 Aug-Sep; 6(4):548-51 (Eng. Abstr.) **(Fre)**

[A case report of germinoma with syncytiotrophoblastic giant cells (STGC) in the basal ganglia] Ueda A, et al. **No Shinkei Geka** 1996 Mar;24(3):267-71 (13 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Testicular cancer and spermatogenesis. Botchan A, et al. **Hum Reprod** 1997 Apr;12(4):755-8

Estrogen metabolism and impaired spermatogenesis in germ cell tumors of the testis. Nakazumi H, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1289-95

Pseudo-precocious puberty in a male patient and the melatonin-testosterone relationship. Luboshitzky R, et al. **J Pediatr Endocrinol Metab** 1995 Oct-Dec;8(4):295-9

Gonadal function of patients treated with cisplatin based chemotherapy for germ cell cancer. Brennemann W, et al. **J Urol** 1997 Sep;158(3 Pt 1):844-50

Sexual functioning after multimodality treatment for disseminated nonseminomatous testicular germ cell tumor. van Basten JP, et al. **J Urol** 1997 Oct;158(4):1411-6 (47 ref.)

Metastatic germ cell tumor presenting with renovascular hypertension [letter] Celik I, et al. **Nephron** 1996; 74(2):486-7

RADIOGRAPHY

Metastatic germ cell tumor presenting with renovascular hypertension [letter] Celik I, et al. **Nephron** 1996; 74(2):486-7

RADIOTHERAPY

Radiation therapy for histologically confirmed primary central nervous system germinoma. Haddock MG, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):915-23

Intracranial germinoma: the case for lower dose radiation therapy. Hardenbergh PH, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):419-26

Prognosis of intracranial germinoma with syncytiotrophoblastic giant cells treated by radiation therapy. Shibamoto Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):505-10

Analysis of long-term treatment of intracranial germinoma. Shirato H, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):511-5

Relapse of intracranial germinoma 23 years postirradiation in a patient given growth hormone replacement. Kiltie AE, et al. **Med Pediatr Oncol** 1997 Jul;29(1):41-4

Complete disappearance of giant intracranial germinoma after irradiation. Rainov NG, et al. **Neurosurg Rev** 1995; 18(4):285-92

Radiotherapy of intracranial germinomas. Huh SJ, et al. **Radiother Oncol** 1996 Jan;38(1):19-23

SECONDARY

CT detection of retroperitoneal lymph node metastases in patients with clinical stage I testicular nonseminomatous germ cell cancer: assessment of size and distribution criteria. Hilton S, et al. **AJR Am J Roentgenol** 1997 Aug; 169(2):521-5

Resection of residual retroperitoneal masses in testicular cancer: evaluation and improvement of selection criteria. The ReHiT study group. Re-analysis of histology in testicular cancer. Steyerberg EW, et al. **Br J Cancer** 1996 Nov;74(9):1492-8

Retrocrural lymph node metastases from testis germ cell tumours: removal via a thoraco-abdominal extraperitoneal approach after chemotherapy. Christmas TJ. **Br J Urol** 1997 Mar;79(3):468-70

Evaluation by magnetic resonance imaging of the inferior vena cava in patients with non-seminomatous germ cell tumours of the testis metastatic to the retroperitoneum. Ng CS, et al. **Br J Urol** 1997 Jun;79(6):942-51

Extragonadal germ cell tumour presenting with a spontaneous pneumothorax. Shetty MR, et al. **Br J Urol** 1997 Feb;79(2):295-6

Residual pulmonary masses after chemotherapy for metastatic nonseminomatous germ cell tumor. Prediction of histology. ReHiT Study Group. Steyerberg EW, et al. **Cancer** 1997 Jan 15;79(2):345-55

Primary treatment in stage II non-seminomatous germ cell tumours of the testis: a matter of scalpel or drug infusion? Culine S, et al. **Eur J Cancer** 1996 Sep;32A(10):1641-4 (31 ref.)

Comparison of histological results from the resection of residual masses at different sites after chemotherapy for metastatic non-seminomatous germ cell tumours. Hartmann JT, et al. **Eur J Cancer** 1997 May;33(6):843-7

Do all germ cell tumor patients with residual masses in multiple sites require postchemotherapy resections? [letter; comment] Einhorn LH. **J Clin Oncol** 1997 Jan;15(1):409-10 . Comment on: J Clin Oncol 1996 Jun;14(6):1765-9.

Immunohistochemical expression of Ki-67 to predict lymph node involvement in clinical stage I nonseminomatous germ cell tumors. Heidenreich A, et al. **J Urol** 1997 Aug; 158(2):620-5

Post-chemotherapy resection of nonseminomatous germ cell testicular tumors metastatic to the mediastinum. Hejase MJ, et al. **J Urol** 1996 Oct;156(4):1345-8

Residual masses after chemotherapy for metastatic testicular cancer: the clinical implications of the association between retroperitoneal and pulmonary histology. Re-analysis of Histology in Testicular Cancer (ReHiT) Study Group. Steyerberg EW, et al. **J Urol** 1997 Aug;158(2):474-8 (23 ref.)

Metastasis of an intracranial germinoma through a ventriculoperitoneal shunt: recurrence as a yolk-sac tumor. Back MR, et al. **Pediatr Surg Int** 1997;12(1):24-7

Detection of vital germ cell tumor cells in short-term cell cultures of primary tumors and of retroperitoneal metastasis--clinical implications. Otto T, et al. **Urol Res** 1997;25(2):121-4

[Suprasellar and pineal germinoma with spinal dissemination] Roganović Z, et al. **Vojnosanit Pregl** 1996 Jul-Aug; 53(4):331-4 **(Scr)**

SURGERY

Germinoma and choroid plexus papilloma coexisting in the fourth ventricle. Israel Z, et al. **Acta Neurochir (Wien)** 1996; 138(10):1252-3

Postchemotherapy resections of residual masses from metastatic non-seminomatous testicular germ cell tumors. Hartmann JT, et al. **Ann Oncol** 1997 Jun;8(6):531-8

Resection of residual retroperitoneal masses in testicular cancer: evaluation and improvement of selection criteria. The ReHiT study group. Re-analysis of histology in testicular cancer. Steyerberg EW, et al. **Br J Cancer** 1996 Nov;74(9):1492-8

Primary retroperitoneal germ cell tumours: excision via a thoracoabdominal extraperitoneal approach. Christmas TJ, et al. **Br J Surg** 1997 Jul;84(7):1022-5

Retrocrural lymph node metastases from testis germ cell tumours: removal via a thoraco-abdominal extraperitoneal approach after chemotherapy. Christmas TJ. **Br J Urol** 1997 Mar;79(3):468-70

Sexual functioning in testosterone-supplemented patients treated for bilateral testicular cancer. van Basten JP, et al. **Br J Urol** 1997 Mar;79(3):461-7

Abdominal mass in a young woman. Pitfalls and delayed diagnosis. Case report. Barrenetxea G, et al. **Eur J Gynaecol Oncol** 1996;17(6):507-9 (17 ref.)

Do all germ cell tumor patients with residual masses in multiple sites require postchemotherapy resections? [letter; comment] Einhorn LH. **J Clin Oncol** 1997 Jan;15(1):409-10 . Comment on: J Clin Oncol 1996 Jun;14(6):1765-9.

Management of primary intracranial germinomas: diagnostic surgery or radical resection? Sawamura Y, et al. **J Neurosurg** 1997 Aug;87(2):262-6

Salvage resection of a chemorefractory mediastinal germ cell tumor. Rivoire M, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1124-6

Nerve sparing post-chemotherapy retroperitoneal lymph node dissection for advanced testicular cancer. Coogan CL, et al. **J Urol** 1996 Nov;156(5):1656-8

Post-chemotherapy resection of nonseminomatous germ cell testicular tumors metastatic to the mediastinum. Hejase MJ, et al. **J Urol** 1996 Oct;156(4):1345-8

Improved management of abdominal undescended testicular tumors with bulky confluent retroperitoneal nodal metastases. Kulkarni JN, et al. **J Urol** 1996 Oct; 156(4):1341-4

Cerebellopontine angle germinoma. A case report. Kurtsoy A, et al. **Neurosurg Rev** 1996;19(2):127-30

Prognostic factors in low-stage nonseminomatous testicular cancer. Moul JW, et al. **Oncology (Huntingt)** 1996 Sep; 10(9):1359-68, 1374; discussion 1377-8 (65 ref.)

Germ cell tumors. Rescorla FJ. **Semin Pediatr Surg** 1997 Feb; 6(1):29-37 (95 ref.)

Primary chemotherapy: how does it compare with surgery? Horwich A. **Semin Urol Oncol** 1996 Feb;14(1):34-5

Retroperitoneal lymphadenectomy: the traditional treatment option. Jewett MA, et al. **Semin Urol Oncol** 1996 Feb; 14(1):24-9 (16 ref.)

A comparison of children with suprasellar germ cell tumors and craniopharyngiomas: final height, weight, endocrine, and visual sequelae after treatment. Ono N, et al. **Surg Neurol** 1996 Oct;46(4):370-7

Results of postchemotherapy adjunctive retroperitoneal lymph node dissection in non-seminomatous germ cell cancer patients. Goepel M, et al. **Urol Int** 1996;57(4):209-12

[Otoneurological symptoms and their changes after removal of pineal tumors] Blagoveshchenskaia NS, et al. **Vestn Otorinolaringol** 1997;(3):18-24 (Eng. Abstr.) **(Rus)**

THERAPY

Primary malignant germ cell tumours of the mediastinum--results of multimodality treatment. Jyothirmayi R, et al. **Acta Oncol** 1997;36(3):317-21 (32 ref.)

High-dose chemotherapy as salvage treatment for germ cell tumors. The ongoing IT94 study. Pico JL, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S63-6 (31 ref.)

High-dose chemotherapy and ASCR of patients with relapsed or refractory germ cell tumors: long-term follow-up. Siegert W, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S60

A blood stem cell transplant in a person with concomitant Hodgkin disease and testicular carcinoma. Varterasian ML, et al. **Bone Marrow Transplant** 1997 Apr;19(8):857-8

Sexual functioning after treatment for testicular cancer: comparison of treatment modalities. Jonker-Pool G, et al. **Cancer** 1997 Aug 1;80(3):454-64

Germ cell tumors of the brain in children: a review of current literature and new advances in therapy. Kretschmar CS. **Cancer Invest** 1997;15(2):187-98 (94 ref.)

Germ cell tumors of the ovary. Talerman A. **Curr Opin Obstet Gynecol** 1997 Feb;9(1):44-7 (18 ref.)

Sexual functioning after multimodality treatment for disseminated nonseminomatous testicular germ cell tumor. van Basten JP, et al. **J Urol** 1997 Oct;158(4):1411-6 (47 ref.)

Testicular germ-cell cancer. Bosl GJ, et al. **N Engl J Med** 1997 Jul 24;337(4):242-53 (122 ref.)

The value of prognostic factors in the management of stage I nonseminomatous germ cell testicular tumors (NSGCTT). Ondruš D, et al. **Neoplasma** 1996;43(3):195-7

Management of germ cell testicular cancer with pulmonary metastases. Schnorrer M, et al. **Neoplasma** 1996;43(1):47-50

Two unusual recurrences of intracranial germinoma. Strojan P, et al. **Pediatr Hematol Oncol** 1996 Jul-Aug;13(4):381-5

What are the chances of infertility and should sperm be banked? Ohl DA, et al. **Semin Urol Oncol** 1996 Feb; 14(1):36-44 (80 ref.)

What is the appropriate follow-up after treatment? Sharir S, et al. **Semin Urol Oncol** 1996 Feb;14(1):45-53 (31 ref.)

Secondary acute monocytic leukemia occurring during the treatment of a testicular germ cell tumor. A case report and review of the literature. Nonomura N, et al. **Urol Int** 1997;58(4):239-42 (26 ref.)

[Advances in the therapy of malignant ovarian germ cell tumors] Hong W. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Jul;31(7):437-40 (23 ref.) **(Chi)**

[Metallothionein expression as a marker of therapeutic sensitivity in the early stages of testicular cancer] Eid H, et al. **Orv Hetil** 1997 Jan 19;138(3):135-9 (28 ref.) (Eng. Abstr.) **(Hun)**

[Clinical study of testicular cancer] Tsumatani K, et al. **Hinyokika Kiyo** 1996 Dec;42(12):943-50 (Eng. Abstr.) **(Jpn)**

[Two cases of primary mediastinal germ cell tumor] Yamasaki N, et al. **Kyobu Geka** 1996 Dec;49(13):1081-4 (Eng. Abstr.) **(Jpn)**

[A case of malignant mediastinal germ cell tumor benefited by multidisciplinary therapy] Kamiya I. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):994-7 (Eng. Abstr.) **(Jpn)**

VETERINARY

Tumours of the testis and accessory male sex glands. Ribas JL, et al. **IARC Sci Publ** 1996;(126):261-80 (94 ref.)

VIROLOGY

Specificity of antibodies directed against Env protein of human endogenous retroviruses in patients with germ cell tumors. Sauter M, et al. **Cancer Res** 1996 Oct 1; 56(19):4362-5

GERONTOLOGY see **GERIATRICS**

GERSTMANN-STRAUSSLER-SCHEINKER DISEASE see **GERSTMANN-STRAUSSLER SYNDROME**

GERSTMANN-STRAUSSLER SYNDROME

[Creutzfeldt-Jakob disease(CJD) and Gerstmann-Sträussler-Scheinker syndrome(GSS)] Udaka F, et al. **Nippon Rinsho** 1997 Apr;55(4):972-7 (24 ref.) (Eng. Abstr.) **(Jpn)**

GERSTMANN-STRAUSSLER SYNDROME

DIAGNOSIS

A Japanese family with a variant of Gerstmann-Sträussler-Scheinker disease. Tanaka Y, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):454–7

GENETICS

Prion protein amyloidosis. Ghetti B, et al. **Brain Pathol** 1996 Apr;6(2):127–45 (90 ref.)

Gerstmann-Sträussler-Scheinker disease with the PRNP P102L mutation and valine at codon 129. Young K, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):147–50

Neuropsychological function in patients with Gerstmann-Sträussler-Scheinker disease from the Indiana kindred (F198S). Unverzagt FW, et al. **J Int Neuropsychol Soc** 1997 Mar;3(2):169–78

Neurofibrillary tangles in Gerstmann-Sträussler-Scheinker syndrome with the A117V prion gene mutation. Tranchant C, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug; 63(2):240–6

Polymorphism at codon 129 or codon 219 of PRNP and clinical heterogeneity in a previously unreported family with Gerstmann-Sträussler-Scheinker disease (PrP-P102L mutation). Barbanti P, et al. **Neurology** 1996 Sep; 47(3):734–41

METABOLISM

Proteinase-K-resistant prion protein isoforms in Gerstmann-Sträussler-Scheinker disease (Indiana kindred). Piccardo P, et al. **J Neuropathol Exp Neurol** 1996 Nov; 55(11):1157–63

PATHOLOGY

[Gerstmann-Sträussler-Scheinker syndrome in a Sicilian patient. Neuropathological aspects] Galatioto S, et al. **Pathologica** 1995 Dec;87(6):659–65 (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

[Clinical features of Creutzfeldt-Jakob disease and Gerstmann-Sträussler syndrome] Kuzuhara S. **No To Shinkei** 1997 Aug;49(8):697–706 (27 ref.) **(Jpn)**

GERSTMANN'S SYNDROME

DIAGNOSIS

Gerstmann's syndrome. Sukumar S, et al. **Postgrad Med J** 1996 May;72(847):314

GESTALT LAW OF CLOSURE see **PERCEPTUAL CLOSURE**

GESTALT THEORY

Gestalten of today: early processing of visual contours and surfaces. Kovács I. **Behav Brain Res** 1996 Dec;82(1):1–11 (93 ref.)

The problem of gestalt in neurobiology. Sokolov EN. **Neurosci Behav Physiol** 1997 Jul-Aug;27(4):323–32 (33 ref.)

An examination of the internal reliability of the Breskin Rigidity Test among German adults. Maltby J, et al. **Percept Mot Skills** 1996 Oct;83(2):409–10

[The gestalt problem in neurobiology] Sokolov EN. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):229–40 (33 ref.) (Eng. Abstr.) **(Rus)**

GESTATIONAL AGE

see related
CROWN-RUMP LENGTH
INFANT, PREMATURE

Reducing fetal deaths in multiple births: optimal birthweights and gestational ages for infants of twin and triplet births. Luke B. **Acta Genet Med Gemellol (Roma)** 1996; 45(3):333–48

The behavior of amidolytic factor VII in smoking and non-smoking pregnant women in relation to their gestational age. Devies IE, et al. **Acta Obstet Gynecol Scand** 1997 May;76(5):405–8

IGF-I, IGF-II, free IGF-I and IGFBP-1, -2 and -3 levels in venous cord blood: relationship to birthweight, length and gestational age in healthy newborns. Klauwer D, et al. **Acta Paediatr** 1997 Aug;86(8):826–33

Breastfeeding and catch-up growth in infants born small for gestational age. Lucas A, et al. **Acta Paediatr** 1997 Jun; 86(6):564–9

Effect of acute ethanol and cocaine administration on gestation days 14–17 in mice. Salo AL, et al. **Alcohol** 1996 Jul-Aug;13(4):369–75

Gestational age- and growth-related alterations in fetal right and left ventricular diastolic filling patterns. Harada K, et al. **Am J Cardiol** 1997 Jan 15;79(2):173–7

An investigation of the effect of paternal occupation group at conception on birth weight and gestational age. ALSPAC Study Team of Pregnancy and Childhood. Shea KM, et al. **Am J Ind Med** 1997 Jun;31(6):738–43

Parental decisions to terminate/continue following abnormal cytogenetic prenatal diagnosis: "what" is still more important than "when". Evans MI, et al. **Am J Med Genet** 1996 Feb 2;61(4):353–5

First-trimester growth restriction and fetal aneuploidy: the effect of type of aneuploidy and gestational age. Bahado-Singh RO, et al. **Am J Obstet Gynecol** 1997 May; 176(5):976–80

Down syndrome and neural tube defect screening: the value of using gestational age by ultrasonography. Benn PA, et al. **Am J Obstet Gynecol** 1997 May;176(5):1056–61

New technologies permit safe abortion at less than six weeks' gestation and provide timely detection of ectopic gestation. Edwards J, et al. **Am J Obstet Gynecol** 1997 May; 176(5):1101–6

Prenatal maternal blood pressure response to stress predicts birth weight and gestational age: a preliminary study [see comments] McCubbin JA, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):706–12. Comment in: Am J Obstet Gynecol 1997 Mar;176(3):733.

The effect of indomethacin tocolysis on fetal ductus arteriosus constriction with advancing gestational age. Vermillion ST, et al. **Am J Obstet Gynecol** 1997 Aug; 177(2):256–9; discussion 259–61

Antenatal steroids and intraventricular hemorrhage after premature rupture of membranes at 24–28 weeks' gestation. Chen B, et al. **Am J Perinatol** 1997 Mar;14(3):171–6

Developmental sequence of human fetal body movements in the second half of pregnancy. Kozuma S, et al. **Am J Perinatol** 1997 Mar;14(3):165–9

Influence of gestational age on the time from spontaneous rupture of the chorioamniotic membranes to the onset of labor. Savitz DA, et al. **Am J Perinatol** 1997 Mar; 14(3):129–33

Dubowitz assessment of gestational age and agreement with prenatal methods. Vik T, et al. **Am J Perinatol** 1997 Jul; 14(6):369–73

Technical note: error in Olivier and Pineau's regression formulae for calculation of stature and lunar age from radial diaphyseal length in forensic fetal remains. Huxley AK, et al. **Am J Phys Anthropol** 1996 Jul;100(3):435–7

Higher lung antioxidant enzyme activity persists after single dose of corticosteroids in preterm lambs. Walther FJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L187–91

The accurate measurement of gestational age--a critical step toward improving fetal death reporting and perinatal health [comment] Alexander GR. **Am J Public Health** 1997 Aug; 87(8):1278–9. Comment on: Am J Public Health 1997 Aug;87(8):1323–7.

Ovine amniotic and allantoic epithelia across gestation. Shandley L, et al. **Anat Rec** 1997 Aug;248(4):542–53

The effects of gestation dating on the calculation of patient-specific risks in Down's syndrome screening: multivariate case [see comments] Bishop JC, et al. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):55–60. Comment in: Ann Clin Biochem 1997 Jan;34 (Pt 1):1–2.

Gestational dating and Down's syndrome screening [letter; comment] Palomaki GE, et al. **Ann Clin Biochem** 1996 Jul; 33 (Pt 4):359–61. Comment on: Ann Clin Biochem 1995 Sep;32 (Pt 5):464–77.

Effects of gestation dating in Down's screening [editorial; comment] Worthington DJ. **Ann Clin Biochem** 1997 Jan; 34 (Pt 1):1–2. Comment on: Ann Clin Biochem 1997 Jan;34 (Pt 1):55–60.

Cerebral palsy: effects of twinning, birthweight, and gestational age. Williams K, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov;75(3):F178–82

The relationship between gestational age and the incidence of classical caesarean section. Bethune M, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):153–5

The metabolic profile of glucose tolerant women who have had large for gestational age babies. Moses R, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):177–80

Effect of gestational age misclassification on the pattern of low birthweight in Aborigines. Coory M. **Aust N Z J Public Health** 1997 Feb;21(1):84–8

Bile acid concentrations in serum and duodenal aspirates of healthy preterm infants: effects of gestational and postnatal age. Boehm G, et al. **Biol Neonate** 1997;71(4):207–14

Incidence of ischemic-hemorrhagic cerebral lesions in premature infants of gestational age < or = 28 weeks: a prospective ultrasound study. Claris O, et al. **Biol Neonate** 1996;70(1):29–34

Microvascular pressures in isolated perfused immature lamb lungs: effects of flow rate, left atrial pressure and surfactant therapy. Matsuda M, et al. **Biol Neonate** 1996;70(6):349–58

Mid- and long-term outcome of 89 premature infants weighing less than 1,000 g at birth, all appropriate for gestational age. Monset-Couchard M, et al. **Biol Neonate** 1996;70(6):328–38

A rat model for hypoxic-ischemic brain damage in very premature infants. Sheldon RA, et al. **Biol Neonate** 1996; 69(5):327–41

Source of inhibin in ovine fetal plasma and amniotic fluid during late gestation: half-life of fetal inhibin. Miller S, et al. **Biol Reprod** 1997 Aug;57(2):347–53

Atopic dermatitis and birth factors: historical follow up by record linkage [see comments] Olesen AB, et al. **BMJ** 1997 Apr 5;314(7086):1003–8. Comment in: BMJ 1997 Apr 5;314(7086):987–8.

Bone turnover in neonates: changes of urinary excretion rate of collagen type I cross-linked peptides during the first days of life and influence of gestational age. Mora S, et al. **Bone** 1997 Jun;20(6):563–6

Gestational age and induction of labour for prolonged pregnancy. Gardosi J, et al. **Br J Obstet Gynaecol** 1997 Jul;104(7):792–7

Significance of low birthweight for gestational age among very preterm infants. Spinillo A, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):668–73

A mathematical model for the estimation of human embryonic and fetal age. Evtouchenko L, et al. **Cell Transplant** 1996 Jul-Aug;5(4):453–64

Craniofacial growth after iatrogenic cleft palate repair in a fetal ovine model. Canady JW, et al. **Cleft Palate Craniofac J** 1997 Jan;34(1):69–72

"Gestational age"? [letter] O'Rahilly R. **Clin Anat** 1997; 10(5):367

Low molecular mass proteins and urinary enzymes in amniotic fluid of healthy pregnant women at progressive stages of gestation. Mussap M, et al. **Clin Biochem** 1996 Feb;29(1):51–6

A comparison of early gestational age markers in viable twin pregnancies resulting from in vitro fertilization-embryo transfer versus spontaneous conception with ovarian stimulation. Dietterich C, et al. **Clin Exp Obstet Gynecol** 1997;24(1):23–5

Characterization of fetal ovine renal dysplasia after mid-gestation ureteral obstruction. Matsell DG, et al. **Clin Invest Med** 1996 Dec;19(6):444–52

Birth-weight percentiles by gestational age, Connecticut 1988-1993. Roberts C, et al. **Conn Med** 1996 Mar; 60(3):131–40

Infants with gestational age 28 weeks or less. Holmsgaard KW, et al. **Dan Med Bull** 1996 Feb;43(1):86–91

MRI findings in patients with spastic cerebral palsy. I: Correlation with gestational age at birth. Okumura A, et al. **Dev Med Child Neurol** 1997 Jun;39(6):363–8

Effect of chronic infusion of placental lactogen on ovine fetal growth in late gestation. Schoknecht PA, et al. **Domest Anim Endocrinol** 1996 Nov;13(6):519–28

Cerebellar vermis measurement at cranial sonography for assessing gestational age in the newborn weighing less than 2000 grams. Anderson N, et al. **Early Hum Dev** 1996 Jan 5;44(1):59–70

Brachycephaly is ineffective for detection of Down syndrome in early midtrimester fetuses. Borrell A, et al. **Early Hum Dev** 1997 Jan 3;47(1):57–61

Erythrocyte enzymes decomposing reactive oxygen species and gestational age. Candlish JK, et al. **Early Hum Dev** 1995 Oct 2;43(2):145–50

Posterior tibial somatosensory evoked potentials in very preterm infants. Pike AA, et al. **Early Hum Dev** 1997 Jan 3;47(1):71–84

Transvaginal fetal biometry in early pregnancy. Rosati P, et al. **Early Hum Dev** 1997 Sep 19;49(2):91–6

Body proportionality of the small-for-date fetus: is it related to aetiological factors? Todros T, et al. **Early Hum Dev** 1996 Jul 5;45(1-2):1–9

Intrauterine growth and gestational age in preterm infants with cerebral palsy. Topp M, et al. **Early Hum Dev** 1996 Jan 5;44(1):27–36

Activity of the adrenal fetal zone in preterm infants continues to term. Midgley PC, et al. **Endocr Res** 1996 Nov; 22(4):729–33

Tissue-specific expression of inhibin/activin subunit and follistatin mRNAs in mid- to late-gestational age human fetal testis and epididymis. Roberts VJ. **Endocrine** 1997 Feb; 6(1):85–90

Fetal sheep pituitary proopiomelanocortin in late gestation: effect of bilateral lesions of the paraventricular nucleus on regional and cellular messenger ribonucleic acid levels. Bell ME, et al. **Endocrinology** 1997 Sep;138(9):3873–80

Do stressful life events affect duration of gestation and risk of preterm delivery? [see comments] Hedegaard M, et al. **Epidemiology** 1996 Jul;7(4):339–45. Comment in: Epidemiology 1996 Jul;7(4):337–8.

Decreasing melatonin and 6-hydroxymelatonin sulfate excretion with advancing gestational age in preterm and term newborn male infants. Commentz JC, et al. **Eur J Endocrinol** 1996 Aug;135(2):184–7

Fetal distress due to placental insufficiency at 26 through 31 weeks: a comparison between an active and a more conservative management. Schaap AH, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec;70(1):61–8

Predictive value of conditional centile charts for weight and fundal height in pregnancy in detecting light for gestational age births. Thompson ML, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72(1):3–8

Effect of gestational age on the increase in fetal lung growth following tracheal obstruction. Keramidaris E, et al. **Exp Lung Res** 1996 May-Jun;22(3):283–98

Identification of early pregnancy landmarks by transvaginal sonography: analysis by logistic regression. Steinkampf MP, et al. **Fertil Steril** 1997 Jul;68(1):168–70

Gestational age and cell viability determine the effect of frozen storage on human fetal hematopoietic progenitor cell preparations. Anderson EM, et al. **Fetal Diagn Ther** 1996 Nov-Dec;11(6):427–32

Gender and maturation affect glutathione status in human neonatal tissues. Lavoie JC, et al. **Free Radic Biol Med** 1997;23(4):648–57

The influence of angiotensin II on prostanoid production in preterm human umbilical arteries. Haugen G, et al. **Gynecol Obstet Invest** 1996;42(3):159–62

An accurate method for sonographic estimation of the weight of very preterm fetuses. Mielke G, et al. **Gynecol Obstet Invest** 1997;43(2):98–103

The timing of early postnatal catch-up growth in normal,

full-term infants born short for gestational age. Karlberg JP, et al. **Horm Res** 1997;48 Suppl 1:17-24
Search for the optimal fetal cell antibody: results of immunophenotyping studies using flow cytometry. Zheng YL, et al. **Hum Genet** 1997 Jul;100(1):35-42
Rapid genetic diagnosis at 7-9 weeks gestation: diagnosis of sex, single gene defects and DNA fingerprint from coelomic samples. Findlay I, et al. **Hum Reprod** 1996 Nov; 11(11):2548-53
Morphological and molecular characteristics of living human fetuses between Carnegie stages 7 and 23: ultrasound scanning and direct measurements. Harkness LM, et al. **Hum Reprod Update** 1997 Jan-Feb;3(1):25-33
Morphological and molecular characteristics of living human fetuses between Carnegie stages 7 and 23: developmental stages in the post-implantation embryo. Harkness LM, et al. **Hum Reprod Update** 1997 Jan-Feb;3(1):3-23
Morphological and molecular characteristics of living human fetuses between Carnegie stages 7 and 23: immunolocalization of inhibin alpha and beta a subunits. Harkness LM, et al. **Hum Reprod Update** 1997 Jan-Feb; 3(1):35-57
Morphological and molecular characteristics of living human fetuses between Carnegie stages 7 and 23: localization of inhibin mRNA alpha and beta a subunits by in-situ hybridization. Harkness LM, et al. **Hum Reprod Update** 1997 Jan-Feb;3(1):59-92
Influence of gestational age on cord blood immunoglobulin and complement levels. Kumar A, et al. **Indian Pediatr** 1996 Jan;33(1):44-6
Does gestational age misclassification explain the difference in birthweights for Australian aborigines and whites? Coory M. **Int J Epidemiol** 1996 Oct;25(5):980-8
First and second trimester sonography: an American perspective. Scorza WE, et al.
Int J Fertil Menopausal Stud 1996 May-Jun;41(3):288-92 (11 ref.)
Birth weight, prematurity and accuracy of gestational age. Mongelli M, et al. **Int J Gynaecol Obstet** 1997 Mar; 56(3):251-6
Radial alveolar count as a tool for the estimation of fetal age. Betz P, et al. **Int J Legal Med** 1997;110(2):52-4
Development of the human fetal lung in the pseudoglandular stage: scanning electron microscopic remarks. Orlandini GE, et al. **Ital J Anat Embryol** 1996 Jul-Sep;101(3):141-53
Earliest ultrasound finding of implantation? Dastidar SG, et al. **J Assist Reprod Genet** 1997 Mar;14(3):148-51
Type II and type III deiodinase activity in human placenta as a function of gestational age. Koopdonk-Kool JM, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2154-8
The undesirable consequences of controlling for birth weight in perinatal epidemiological studies. Blair E.
J Epidemiol Community Health 1996 Oct;50(5):559-63
Epidermal steroid sulfatase and cholesterol sulfotransferase are regulated during late gestation in the fetal rat. Hanley K, et al. **J Invest Dermatol** 1997 Jun;108(6):871-5
Duration of human singleton pregnancies in Ibadan, Nigeria. Omigbodun AO, et al. **J Natl Med Assoc** 1997 Sep; 89(9):617-21
Chromosomal analysis in 894 induced abortuses from women of advanced maternal age in relation to gestational weeks and fetal sex ratio. Hoshi N, et al.
J Obstet Gynaecol Res 1997 Feb;23(1):1-7
Gestational changes in nitric oxide synthase activity in the rat placenta. Thanda M, et al. **J Obstet Gynaecol Res** 1996 Jun;22(3):267-73
The effect of gestational age at birth on morbidity in patients with gastroschisis. Simmons M, et al. **J Pediatr Surg** 1996 Aug;31(8):1060-1; discussion 1062
Estimation of gestational age by the length of the dorsal spine. Martell M, et al. **J Perinat Med** 1997;25(2):168-72
Vitamin dependent erythrocyte enzymes in newborns in relation to gestational age and birth weight. Ramos JL, et al. **J Perinat Med** 1996;24(3):221-5
Conceptualization, measurement, and use of gestational age. I. Clinical and public health practice. Alexander GR, et al. **J Perinatol** 1996 Jan-Feb;16(1):53-9 (57 ref.)
Effectiveness of primary level antenatal screening for severe congenital heart disease: a population-based assessment. Sinclair BG, et al. **J Perinatol** 1996 Sep-Oct;16(5):336-40
Lung maturity tests. Relation to source, clarity, gestational age and neonatal outcome. Lauria MR, et al.
J Reprod Med 1996 Sep;41(9):685-91
Have improvements in birth weight and gestational age over 20 years influenced neonatal and infant survival? Jeyaseelan L, et al. **J Trop Pediatr** 1996 Aug;42(4):241-3
When Hadlock's methodology to determine menstrual age and weight are used in combination in obstetrical calculation programs, the results are not valid at term. Cadkin AV. **J Ultrasound Med** 1996 Mar;15(3):264-6
Improved birth weight table for neonates developed from gestations dated by early ultrasonography. Doubilet PM, et al. **J Ultrasound Med** 1997 Apr;16(4):241-9
Gestational age determination, variation of conception date, and external fetal development of sika deer (Cervus nippon yesoensis Heude, 1884) in eastern Hokkaido. Suzuki M, et al. **J Vet Med Sci** 1996 Jun;58(6):505-9
Fetal renal growth evaluated by prenatal ultrasound examination. Gloor JM, et al. **Mayo Clin Proc** 1997 Feb; 72(2):124-9
Estimation of fetal age by histological study of kidney. Kumar KU, et al. **Med Sci Law** 1996 Jul;36(3):226-30
Biparietal diameter: a useful measure for determining gestational age of human abortuses. Sailaja K, et al.
Natl Med J India 1996 Jul-Aug;9(4):165-7
Attempt to continue pregnancy of remaining fetuses after delivery of preceding fetus in multiple pregnancies before 24 weeks gestation: report of three cases. Ishikawa K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Dec; 48(12):1161-4 (18 ref.)
A critical review of the relationship between gestational weight gain and preterm delivery. Carmichael SL, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):865-73 (64 ref.)
Assessment of gestational age using birth certificate data compared with medical record data. Emery ES 3rd, et al. **Paediatr Perinat Epidemiol** 1997 Jul;11(3):313-21
The relationship between maternal birthweight and gestational age in twins and singletons and those of their offspring in Norway. Glinianaia SV, et al.
Paediatr Perinat Epidemiol 1997 Jan;11(1):26-36
Comparison of demographic and defect characteristics among different developmental stages of congenital limb reduction defects. Lin S, et al.
Paediatr Perinat Epidemiol 1996 Jul;10(3):294-308
Role of gestational age and body weight on Doppler transmitral flow velocity pattern in very low birth weight infants. Harada K, et al. **Pediatr Cardiol** 1996 Jul-Aug; 17(4):242-5
The relation between neonatal thyroxine levels and neurodevelopmental outcome at age 5 and 9 years in a national cohort of very preterm and/or very low birth weight infants. Den Ouden AL, et al. **Pediatr Res** 1996 Jan;39(1):142-5
Doppler velocimetry in branch pulmonary arteries of normal human fetuses during the second half of gestation. Laudy JA, et al. **Pediatr Res** 1997 Jun;41(6):897-901
Mesenteric blood flow velocity and its relation to transitional circulatory adaptation in appropriate for gestational age preterm infants. Martinussen M, et al. **Pediatr Res** 1996 Feb;39(2):275-80
Apnea frequently persists beyond term gestation in infants delivered at 24 to 28 weeks. Eichenwald EC, et al.
Pediatrics 1997 Sep;100(3 Pt 1):354-9
Cognitive and neurologic development of the premature, small for gestational age infant through age 6: comparison by birth weight and gestational age. McCarton CM, et al.
Pediatrics 1996 Dec;98(6 Pt 1):1167-78
A novel technique for studying cellular function in human placenta: gestational changes in intracellular pH regulation. Powell TL, et al. **Placenta** 1996 Nov;17(8):661-8
Variations in expression of copper/zinc superoxide dismutase in villous trophoblast of the human placenta with gestational age. Watson AL, et al. **Placenta** 1997 May; 18(4):295-9
Pathological significance of first-trimester fetal nuchal oedema. Greco P, et al. **Prenat Diagn** 1996 Jun;16(6):503-9
Screening for fetal anomalies in the 12th week of pregnancy by transvaginal sonography in an unselected population. Hernádi L, et al. **Prenat Diagn** 1997 Aug;17(8):753-9
Mid-trimester prenatal sonographic diagnosis of a pericardial cyst. Lewis KM, et al. **Prenat Diagn** 1996 Jun;16(6):549-53
First-trimester growth patterns of aneuploid fetuses. Schemmer G, et al. **Prenat Diagn** 1997 Feb;17(2):155-9
Transvaginal sonographic detection of adducted thumbs, hydrocephalus, and agenesis of the corpus callosum at 22 postmenstrual weeks: the masa spectrum or L1 spectrum. A case report and review of the literature. Timor-Tritsch IE, et al. **Prenat Diagn** 1996 Jun;16(6):543-8 (31 ref.)
Early diagnosis of duodenal atresia and possible sonographic pitfalls. Zimmer EZ, et al. **Prenat Diagn** 1996 Jun; 16(6):564-6
Early sonographic diagnosis of fetal midline disruption syndromes. Zimmer EZ, et al. **Prenat Diagn** 1996 Jan; 16(1):65-9
Prostaglandins in selected reproductive tissues in preterm and full-term gestations [published erratum appears in Prostaglandins Leukot Essent Fatty Acids 1997 Apr;56(4):335] Reece MS, et al.
Prostaglandins Leukot Essent Fatty Acids 1996 Nov; 55(5):303-7
Third ventricle: size and appearance in normal fetuses through gestation. Hertzberg BS, et al. **Radiology** 1997 Jun; 203(3):641-4
Improved perinatal mortality rates in 1001 patients with severe pre-eclampsia. Odendaal HJ, et al. **S Afr Med J** 1995 Oct;85(10 Suppl):1071-6
An intelligent diagnostic system for the assessment of gestational age based on ultrasonic fetal head measurements. Beksaç MS, et al. **Technol Health Care** 1996 Aug;4(2):223-31
Serine-enhanced restoration of 2-methoxyethanol-induced dysmorphogenesis in the rat embryo and near-term fetus. Sleet RB, et al. **Toxicol Appl Pharmacol** 1997 Aug; 145(2):415-24
Transcervical chorionic villus sampling beyond 12 weeks of gestation. Borrell A, et al. **Ultrasound Obstet Gynecol** 1996 Jun;7(6):416-20
Dating of pregnancy: time to forget the last menstrual period [editorial] Gardosi J. **Ultrasound Obstet Gynecol** 1997 Jun; 9(6):367-8
Reference resistance indices of the umbilical, fetal middle cerebral and uterine arteries at 24-42 weeks of gestation. Kurmanavicius J, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):112-20
Adrenal artery velocity waveforms in the appropriate and small-for-gestational-age fetus. Mari G, et al.
Ultrasound Obstet Gynecol 1996 Aug;8(2):82-6
A comparative analysis of second-trimester ultrasound dating formulae in pregnancies conceived with artificial reproductive techniques. Mul T, et al.
Ultrasound Obstet Gynecol 1996 Dec;8(6):397-402
[Comparison between age-dependent (Wald alpha program) and age-independent (Ulm index) analysis program for prenatal detection of Down's syndrome with serum markers] Zwahr C, et al. **Z Geburtshilfe Neonatol** 1996 Sep-Oct;200(5):181-5 (Eng. Abstr.) **(Ger)**
[Determination of the gestational age (letter)] Enria R, et al. **Minerva Pediatr** 1997 May;49(5):221-2 **(Ita)**
[Gestational age, birth weight, degree of motor impairment, and causes of brain damage in sixty-eight patients with cerebral palsy identified in a community (birth year 1985-1991)] Suzuki H. **No To Hattatsu** 1997 Jan;29(1):27-32 (Eng. Abstr.) **(Jpn)**
[Body weight distribution norms of newborns and fetuses with a gestational age with 28 weeks or more] Klimek M, et al. **Ginekol Pol** 1996 Nov;67(11):529-37 (Eng. Abstr.) **(Pol)**
[Graphic modification of the Ballard-Klimek scale] Klimek M, et al. **Ginekol Pol** 1996 Nov;67(11):538-44 (Eng. Abstr.) **(Pol)**
[Pattern of intrauterine growth and Doppler flowmetry] Cardoso F, et al. **Acta Med Port** 1996 Feb-Mar; 9(2-3):97-102 (Eng. Abstr.) **(Por)**
[The characteristics of the thrombocyte aggregation activity in the whole blood of newborn infants in relation to their degree of maturity] Bystritskaia NV. **Fiziol Cheloveka** 1997 May-Jun;23(3):85-7 **(Rus)**
[Pharmacokinetics of vancomycin in neonates of postconceptional age less than or equal to 32 weeks] Ginovart Galiana G, et al. **An Esp Pediatr** 1996 Aug; 45(2):167-71 (Eng. Abstr.) **(Spa)**
[When does the fetus become a child according to the law? The national ethics committee wants to keep the 28th week of pregnancy as a limit] Orn P. **Lakartidningen** 1997 Jan 22;94(4):198 **(Swe)**

GESTATIONAL DIABETES see **DIABETES, GESTATIONAL**

GESTATIONAL MOTHERS see **SURROGATE MOTHERS**

GESTOSIS, EPH

[On the problem of modern gestosis terminology] Ostrzeński A. **Pol Tyg Lek** 1974 Jan 14;29(2):73-4 **(Pol)**

BLOOD

Serum level of endothelin-1 and -2 in pregnancies complicated by EPH gestosis. Leszczynska-Gorzelak B, et al. **Gynecol Obstet Invest** 1997;43(1):37-40
[Structural organization of red blood cell membranes in pregnant women with gestosis] Mikaelian NP, et al.
Vestn Ross Akad Med Nauk 1997;(7):54-6 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

[Renal retinopathy] Okisaka S.
Ryoikibetsu Shokogun Shirizu 1997;(16 Pt 1):24-6 (6 ref.) **(Jpn)**
[Arterial blood pressure 3-8 years after EPH gestosis in mothers and their children] Czeszyńska MB, et al.
Ginekol Pol 1996 May;67(5):231-6 (Eng. Abstr.) **(Pol)**

ENZYMOLOGY

[Cathepsin D activity in amniotic fluid and serum during labor and puerperium in normal cases and those complicated by EPH-gestosis] Michalak S, et al.
Ginekol Pol 1997 Jan;68(1):17-21 (Eng. Abstr.) **(Pol)**

METABOLISM

Glycosaminoglycan-biosynthesis in the wall of the umbilical cord artery and its alteration in EPH-gestosis. Romanowicz L, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar; 72(1):19-25

PHYSIOPATHOLOGY

Pregnancy induced hypertension--anaesthetic considerations. Zubair NA. **JPMA J Pak Med Assoc** 1996 Sep;46(9):206-13 (70 ref.)
[Central and regional hemodynamics during the physiological course of pregnancy and the systemic circulatory disorders in gestoses] Strizhakov AN, et al.
Vestn Ross Akad Med Nauk 1996;(6):72-7 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Hypertension in pregnancy. Can close surveillance curtail perinatal mortality? [letter] Asbagh FA, et al.
Int J Gynaecol Obstet 1996 Feb;52(2):193-4

GESTRINONE

GESTRINONE

ADMINISTRATION & DOSAGE

Clinical, endocrine, and metabolic effects of two doses of gestrinone in treatment of pelvic endometriosis. Dawood MY, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):387–94

PHARMACOLOGY

Comparative effect of the calcium antagonist verapamil and the synthetic steroids gestrinone and danazol on human monocyte phagocytosis in vitro. Magri B, et al. **Gynecol Obstet Invest** 1997;43(1):6–10

THERAPEUTIC USE

The efficacy and safety of a 19 nor-steroid in the treatment of endometriosis. Yang TS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Aug;58(2):89–96

Long-term follow-up of endometriosis after two different therapies (Gestrinone and Buserelin). Nieto A, et al. **Clin Exp Obstet Gynecol** 1996;23(4):198–204

Individual and combined effects of triptoreline and gestrinone on experimental endometriosis in rats. Quereda F, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Jul;67(1):35–40

Gestrinone versus a gonadotropin-releasing hormone agonist for the treatment of pelvic pain associated with endometriosis: a multicenter, randomized, double-blind study. Gestrinone Italian Study Group. **Fertil Steril** 1996 Dec;66(6):911–9

Evaluation of gestrinone after surgery in treatment of endometriosis. Nieto A, et al. **Gynecol Obstet Invest** 1997; 43(3):192–4

[Effects of gestrinone on experimental endometriosis in rabbits] Giu Y, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Dec;30(12):735–7 (Eng. Abstr.) **(Chi)**

GESTURES

Advantages and safeguards in using the ideomotor signaling technique: a commentary of Walsh and clinical practice [comment] Hammond DC. **Am J Clin Hypn** 1997 Jul; 40(1):360–7. Comment on: Am J Clin Hypn 1997 Jul;40(1):349–59.

Goldfinger: a framework for resolving affect using ideomotor questioning [see comments] Walsh BJ. **Am J Clin Hypn** 1997 Jul;40(1):349–59. Comment in: Am J Clin Hypn 1997 Jul;40(1):360–7.

Pointing arm movements in short- and long-term spaceflights. Berger M, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):781–7

What is developmental dyspraxia? Dewey D. **Brain Cogn** 1995 Dec;29(3):254–74 (80 ref.)

Imitation or exploration? Young infants' matching of adults' oral gestures. Jones SS. **Child Dev** 1996 Oct;67(5):1952–69

Imitation and pantomime in high-functioning adolescents with autism spectrum disorders. Rogers SJ, et al. **Child Dev** 1996 Oct;67(5):2060–73

What's communication got to do with it? Gesture in children blind from birth. Iverson JM, et al. **Dev Psychol** 1997 May; 33(3):453–67

Influence of verbal and nonverbal contexts on the sentence intelligibility of a speaker with dysarthria. Garcia JM, et al. **J Speech Hear Res** 1996 Aug;39(4):750–60

The meaning of meaningless gestures: a study of visuo-imitative apraxia. Goldenberg G, et al. **Neuropsychologia** 1997 Mar;35(3):333–41

Initiating requests during community-based vocational training by students with mental retardation and sensory impairments. Heller KW, et al. **Res Dev Disabil** 1996 May-Jun;17(3):173–84

[Manneristic catatonia. A psychotropic drug refractory chronic progressive course] Stöber G, et al. **Fortschr Neurol Psychiatr** 1996 Jul;64(7):250–60 (Eng. Abstr.) **(Ger)**

[The hand, treasure and honor of mankind] Koch HA. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):4–9 **(Ger)**

[From movement to gesture. Evaluation in the treatment of neuro- psychomotor disability] Pisaturo C, et al. **Minerva Pediatr** 1996 Jun;48(6):251–7 (Eng. Abstr.) **(Ita)**

GETAH VIRUS see **ALPHAVIRUS**

GHETTOS see **POVERTY AREAS**

GHOST TEETH see **ODONTODYSPLASIA**

GI, INHIBITORY G-PROTEIN see **G-PROTEIN, INHIBITORY GI**

GIANT CELL ARTERITIS see **TEMPORAL ARTERITIS**

GIANT CELL GRANULOMA see **GRANULOMA, GIANT CELL**

GIANT CELL TUMOR OF BONE

Giant cell tumours of the hand. Sanjay BK, et al. **J Hand Surg [Br]** 1996 Oct;21(5):683–7

[Temporo-sphenoidal giant cell tumors, apropos of a case] Barnabé D, et al. **Rev Laryngol Otol Rhinol (Bord)** 1997; 118(2):133–7 (30 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Brown tumor of the mandible. Keyser JS, et al. **Am J Otolaryngol** 1996 Nov-Dec;17(6):407–10 (14 ref.)

Multicentric giant cell tumour and phaeochromocytoma. Tan BS, et al. **Australas Radiol** 1996 Aug;40(3):360–3

Quiz case of the month. Giant cell tumor (GCT) of the third metacarpal. Bianchi S, et al. **Eur Radiol** 1997;7(1):133–4

Osteoclastoma like giant cell tumour of the thyroid--a variant of undifferentiated carcinoma--a case report. Patil SP, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):169–70

Giant cell tumor of sphenoid-diverse presentation: report of two cases. Behari S, et al. **Neurol Res** 1996 Oct;18(5):462–6

Giant-cell tumour of the sphenoid bone: case report. Rimmelin A, et al. **Neuroradiology** 1996 Oct;38(7):650–3

Recurrence of giant cell tumor of bone: the role of MRI in diagnosis. Waldman BJ, et al. **Orthopedics** 1997 Jan; 20(1):67–9

General case of the day. Benign giant cell tumor with extension through the fibular head into the adjacent soft tissue. Denison GL, et al. **Radiographics** 1997 Mar-Apr; 17(2):545–7

[Giant cell tumors of the spine. Report of a case, literature review] Laffargue P, et al. **Acta Orthop Belg** 1997 Mar; 63(1):28–34 (32 ref.) (Eng. Abstr.) **(Fre)**

[Rare differential diagnosis of breast tumor. Giant cell tumor of the ribs] Brenner P, et al. **Langenbecks Arch Chir** 1997; 382(2):64–8 (Eng. Abstr.) **(Ger)**

[A giant-cell tumor of the parietal skull bones in childhood (a clinical case)] Govenko FS, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul-Sep;(3):37–9 (28 ref.) **(Rus)**

[A giant-cell tumor with rib location (letter)] Vázquez-Pelillo JC, et al. **Arch Bronconeumol** 1997 May; 33(5):257 **(Spa)**

ENZYMOLOGY

Regulation of MMP-9 (92 kDa type IV collagenase/gelatinase B) expression in stromal cells of human giant cell tumor of bone. Rao VH, et al. **Clin Exp Metastasis** 1997 Jul;15(4):400–9

GENETICS

KRAS oncogene mutations suggest a common histogenetic origin for pleomorphic giant cell tumor of the pancreas, osteoclastoma of the pancreas, and pancreatic duct adenocarcinoma. Gocke CD, et al. **Hum Pathol** 1997 Jan; 28(1):80–3

IMMUNOLOGY

[Molecular weight determination and protein analysis of GCF-5 antigens of giant cell tumor of bone] Ren X, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):57–60 (Eng. Abstr.) **(Chi)**

METABOLISM

Cytokines expressed in multinucleated cells: Paget's disease and giant cell tumors versus normal bone. Mills BG, et al. **Calcif Tissue Int** 1997 Jul;61(1):16–21

The prognostic significance of histomorphometry and immunohistochemistry in giant cell tumors of bone. Fornasier VL, et al. **Hum Pathol** 1996 Aug;27(8):754–60

PATHOLOGY

Osteoclastoma-like giant cell tumor of the renal pelvis associated with papillary transitional cell carcinoma. Molinié V, et al. **Arch Pathol Lab Med** 1997 Feb; 121(2):162–6 (28 ref.)

Regulation of MMP-9 (92 kDa type IV collagenase/gelatinase B) expression in stromal cells of human giant cell tumor of bone. Rao VH, et al. **Clin Exp Metastasis** 1997 Jul;15(4):400–9

Giant cell tumor of the occipital bone in a case of von Recklinghausen neurofibromatosis. Opitz H, et al. **Clin Neuropathol** 1996 Jul-Aug;15(4):226–30

Giant cell tumor of bone. Prognosis and treatment of pulmonary metastases. Cheng JC, et al. **Clin Orthop** 1997 May;(338):205–14

Lateral leg pain in a 26-year-old woman [clinical conference] Kuklo TR, et al. **Clin Orthop** 1997 Jul;(340):276–80, 287–8

The prognostic significance of histomorphometry and immunohistochemistry in giant cell tumors of bone. Fornasier VL, et al. **Hum Pathol** 1996 Aug;27(8):754–60

Expression of metalloproteinases and tissue inhibitors of metalloproteinases in giant cell tumor of bone: an immunohistochemical study with clinical correlation. Schoedel KE, et al. **Hum Pathol** 1996 Nov;27(11):1144–8

Local recurrences in giant cell tumour of bone. Long-term follow up of 31 cases. Lausten GS, et al. **Int Orthop** 1996; 20(3):172–6

Late malignant transformation of a benign giant-cell tumor of bone. A case report. Sakkers RJ, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):259–62

Central giant cell granulomas of the jaws: phenotype and proliferation-associated markers. O'Malley M, et al. **J Oral Pathol Med** 1997 Apr;26(4):159–63

Benign giant cell tumor of bone with osteosarcomatous transformation ("dedifferentiated" primary malignant GCT): report of two cases. Brien EW, et al. **Skeletal Radiol** 1997 Apr;26(4):246–55

[Giant cell tumor of the mandibular condyle. Apropos of a case] Paume P, et al. **Rev Stomatol Chir Maxillofac** 1997 Aug;98(2):100–3 (24 ref.) (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

The radiographic stage of giant cell tumor related to stromal cells' proliferation. Tissue cultures in 13 cases. Robinson D, et al. **Acta Orthop Scand** 1997 Jun;68(3):294–7

Aneurysmal bone cyst and giant cell tumor of the foot. Casadei R, et al. **Foot Ankle Int** 1996 Aug;17(8):487–95 (58 ref.)

Radiological and clinical recurrence of giant-cell tumour of bone after the use of cement. Remedios D, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):26–30

Giant cell tumor of bone in children and adolescents. Hoeffel JC, et al. **Rev Rhum Engl Ed** 1996 Oct;63(9):618–23 (18 ref.)

A system for surgical staging and management of spine tumors. A clinical outcome study of giant cell tumors of the spine. Hart RA, et al. **Spine** 1997 Aug 1;22(15):1773–82; discussion 1783

SECONDARY

Chest X-ray mass. Sundaram P, et al. **Postgrad Med J** 1997 Jun;73(860):339–40

SURGERY

Giant cell tumor (osteoclastoma) of the mandible: a diagnostic dilemma and a therapeutic challenge. Atiyeh BS, et al. **Ann Plast Surg** 1996 Aug;37(2):195–200

Joint salvaging surgery for an extensive giant cell tumor of the proximal femur complicated by a transcervical fracture. Sim E, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):431–4

Treatment of giant cell tumor of long bone. Shih HN, et al. **Chang Keng I Hsueh** 1996 Mar;19(1):16–23

Giant-cell tumor of bone around the knee. Fong YC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Apr;59(4):240–7

An acrylic Judet hip prosthesis in a shoulder hemiarthroplasty for thirty-nine years--a case report. Zamudio L, et al. **Int Orthop** 1997;21(2):91–2

Surgery for locally aggressive bone tumours. Devitt A, et al. **Ir J Med Sci** 1996 Oct-Dec;165(4):278–81

Limb salvage for neoplasms of the shoulder girdle. Intermediate reconstructive and functional results. O'Connor MI, et al. **J Bone Joint Surg Am** 1996 Dec; 78(12):1872–88

Radiological and clinical recurrence of giant-cell tumour of bone after the use of cement. Remedios D, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):26–30

Giant cell tumors of the bones of the hand. Athanasian EA, et al. **J Hand Surg [Am]** 1997 Jan;22(1):91–8

Autogenous fibular graft and silicone implant arthroplasty following resection of giant cell tumor of the metacarpal: a report of two cases. Athanasian EA, et al. **J Hand Surg [Am]** 1997 May;22(3):504–7

Giant cell tumour of short bones of hand [letter; comment] De C. **J Indian Med Assoc** 1996 Aug;94(8):312. Comment on: J Indian Med Assoc 1995 Apr;93(4):149–50.

Giant cell tumour of the lower end of the radius--a new treatment modality. Mukherjee K, et al. **J Indian Med Assoc** 1996 May;94(5):170–1

Vascularized fibular graft for reconstruction of the wrist after excision of giant cell tumor. Ono H, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1086–93

A system for surgical staging and management of spine tumors. A clinical outcome study of giant cell tumors of the spine. Hart RA, et al. **Spine** 1997 Aug 1;22(15):1773–82; discussion 1783

[Process and outcome quality in giant cell tumor in relation to surgical management] Pingsmann A, et al. **Unfallchirurg** 1997 Jul;100(7):547–51 (Eng. Abstr.) **(Ger)**

[A case of giant cell tumor originating in the rib] Iida M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug; 44(8):1141–4 (Eng. Abstr.) **(Jpn)**

THERAPY

Thermal effects of acrylic cementation at bone tumour sites. Nelson DA, et al. **Int J Hyperthermia** 1997 May-Jun; 13(3):287–306

VETERINARY

Tumours of the bone. Pour PM. **IARC Sci Publ** 1996; (126):385–426 (84 ref.)

GIANT CELL TUMORS

Late recurrence and endocranial metastasis caused by giant cell tumor. Segura J, et al. **Chir Organi Mov** 1996 Sep-Dec; 81(4):413–9 **(Eng, Ita)**

DIAGNOSIS

Cytomorphology of giant cell tumor of tendon sheath. A report of two cases. Agarwal PK, et al. **Acta Cytol** 1997 Mar-Apr;41(2):587–9

Giant cell tumor of the larynx: case report and review of the literature. Werner JA, et al. **Head Neck** 1997 Mar; 19(2):153–7 (31 ref.)

GENETICS

Comparison of cytogenetics, interphase cytogenetics, and DNA flow cytometry in bone tumors. Tarkkanen M, et al. **Cytometry** 1996 Sep 15;26(3):185–91

KRAS oncogene mutations suggest a common histogenetic origin for pleomorphic giant cell tumor of the pancreas, osteoclastoma of the pancreas, and pancreatic duct adenocarcinoma. Gocke CD, et al. **Hum Pathol** 1997 Jan; 28(1):80–3

Giant cell tumor of tendon sheath is a polyclonal cellular proliferation. Vogrincic GS, et al. **Hum Pathol** 1997 Jul; 28(7):815–9

PATHOLOGY

Cytomorphology of giant cell tumor of tendon sheath. A report of two cases. Agarwal PK, et al. **Acta Cytol** 1997 Mar–Apr;41(2):587–9

Multinucleated cells in pigmented villonodular synovitis and giant cell tumor of tendon sheath express features of osteoclasts. Darling JM, et al. **Am J Pathol** 1997 Apr; 150(4):1383–93

Malignant giant cell tumor of the tendon sheaths and joints (malignant pigmented villonodular synovitis). Bertoni F, et al. **Am J Surg Pathol** 1997 Feb;21(2):153–63 (14 ref.)

Soft tissue mass in the foot of a 39–year–old woman [clinical conference] Johnston JO, et al. **Clin Orthop** 1997 May; (338):271–4, 288

Pulmonary metastasis from a benign giant–cell tumor of the hand: report of a case diagnosed by fine–needle aspiration cytology. Lawson L, et al. **Diagn Cytopathol** 1996 Aug; 15(2):157–60

Cytologic findings in tenosynovial giant cell tumors investigated by fine–needle aspiration cytology. Layfield LJ, et al. **Diagn Cytopathol** 1997 Apr;16(4):317–25

Extra–articular localized nodular synovitis (giant cell tumor of tendon sheath origin) attached to the subtalar joint. Villani C, et al. **Foot Ankle Int** 1996 Jul;17(7):413–6 (30 ref.)

Giant (bizarre) cell variant of renal carcinoma. Chetty R, et al. **Histopathology** 1997 Jun;30(6):585–7

Giant cell angiofibroma of the orbit. Ganesan R, et al. **Histopathology** 1997 Jan;30(1):93–6

Letter to the editor. Correspond re: H. Maluf, B.R. DeYoung, P.E. Swanson, M.R. Wick. Fibroma and giant cell tumor of tendon sheath: A comparative histological and immunohistological study. Mod Pathol 8:155, 1995 [letter] Silverman JS, et al. **Mod Pathol** 1996 Jan;9(1):82–4

Giant cell tumor of the fronto–parietal bone. A case report. Kuzeyli K, et al. **Neurosurg Rev** 1995;18(4):265–8

Mixed osteoclastic/pleomorphic–type giant cell tumor of the pancreas with ductal adenocarcinoma: histochemical and immunohistochemical study with review of the literature. Watanabe M, et al. **Pancreas** 1997 Aug;15(2):201–8 (28 ref.)

Leiomyosarcoma with osteoclast–like giant cells of the spermatic cord. A case report and review of the literature. Konety BR, et al. **Urol Int** 1996;56(4):259–62 (14 ref.)

RADIOGRAPHY

The role of imaging in the diagnosis of giant cell tumor of the skull base. Silvers AR, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1392–5

Multifocal giant cell tumors in the spine. A case report. Kos CB, et al. **Spine** 1997 Apr 1;22(7):821–2

SECONDARY

Analysis of giant cell tumor of bone with pulmonary metastases. Osaka S, et al. **Clin Orthop** 1997 Feb; (335):253–61

SURGERY

Giant cell tumor of the vertebral column. Boriani S, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):233–45 **(Eng, Ita)**

ULTRASONOGRAPHY

[Calcifying giant–cell Sertoli tumor: description of a case wtih atypical echographic presentation] Moro U, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):105–8 (19 ref.) (Eng. Abstr.) **(Ita)**

GIANT CELLS

Lower prevalence and incidence of HIV–1 syncytium–inducing phenotype among injecting drug users relative to homosexual men. Mocroft A, et al. **AIDS** 1996 Mar;10(3):344–5

Genetic variability and function of the long terminal repeat from syncytium–inducing and non–syncytium–inducing human immunodeficiency virus type 1. Simm M, et al. **AIDS Res Hum Retroviruses** 1996 Jun 10;12(9):801–9

Giant cell myocarditis due to coxsackie B2 virus infection. Meyer T, et al. **Cardiology** 1997 May–Jun;88(3):296–9

Sphenoid abcess mimicking giant cell temporal arteritis [letter] Goupille P, et al. **Clin Exp Rheumatol** 1996 Sep–Oct; 14(5):579–80

Nuclear levels of NF–kappaB correlate with syncytium–forming capacity of 8e51 cells, expressing a defective HIV virus. Guerrini L, et al. **FEBS Lett** 1997 Jul 28;412(2):277–80

Cytotoxicity and multinucleate giant cell formation in Chinese hamster lung fibroblast caused by crocidolite and chrysotile. Hong YC, et al. **J Korean Med Sci** 1997 Apr; 12(2):99–104

Sensitivity to inhibition by beta–chemokines correlates with biological phenotypes of primary HIV–1 isolates. Jansson M, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15382–7

CYTOLOGY

Atypical fibroxanthoma. An unusual variant with osteoclast–like giant cells. Tomaszewski MM, et al. **Am J Surg Pathol** 1997 Feb;21(2):213–8

Generation of CD1+RelB+ dendritic cells and tartrate–resistant acid phosphatase–positive osteoclast–like multinucleated giant cells from human monocytes. Akagawa KS, et al. **Blood** 1996 Nov 15;88(10):4029–39

Formation of multinucleated giant cells in vitro is dependent on the stage of monocyte to macrophage maturation. Möst J, et al. **Blood** 1997 Jan 15;89(2):662–71

Differential effects of macrophage– and granulocyte–macrophage colony–stimulating factors on cytokine gene expression during rat alveolar macrophage differentiation into multinucleated giant cells (MGC): role for IL–6 in type 2 MGC formation. Lemaire I, et al. **J Immunol** 1996 Dec 1;157(11):5118–25

Generation of multinucleated giant cells by culture of monocyte–derived macrophages with IL–4. Dugast C, et al. **J Leukoc Biol** 1997 Apr;61(4):517–21

M–CSF and GM–CSF promote alveolar macrophage differentiation into multinucleated giant cells with distinct phenotypes. Lemaire I, et al. **J Leukoc Biol** 1996 Oct; 60(4):509–18

In vitro cultured human term cytotrophoblast: a model for normal primary epithelial cells demonstrating a spontaneous differentiation programme that requires EGF for extensive development of syncytium. Morrish DW, et al. **Placenta** 1997 Sep;18(7):577–85

DRUG EFFECTS

Colony stimulating factors induce alveolar macrophage differentiation and giant cell formation. Lemaire I, et al. **Ann N Y Acad Sci** 1996 Oct 31;796:173–81

Surface plasmon resonance analysis of gp17, a natural CD4 ligand from human seminal plasma inhibiting human immunodeficiency virus type–1 gp120–mediated syncytium formation. Autiero M, et al. **Eur J Biochem** 1997 Apr 1; 245(1):208–13

Differential effects of macrophage– and granulocyte–macrophage colony–stimulating factors on cytokine gene expression during rat alveolar macrophage differentiation into multinucleated giant cells (MGC): role for IL–6 in type 2 MGC formation. Lemaire I, et al. **J Immunol** 1996 Dec 1;157(11):5118–25

Generation of multinucleated giant cells by culture of monocyte–derived macrophages with IL–4. Dugast C, et al. **J Leukoc Biol** 1997 Apr;61(4):517–21

Inhibition of syncytium formation by antisense oligonucleotide phosphorothioates complementary to tax mRNA of human T–cell leukemia virus type 1 (HTLV–1). Maeda N, et al. **Leukemia** 1997 Apr;11 Suppl 3:42–4

IMMUNOLOGY

The CD46 transmembrane domain is required for efficient formation of measles–virus–mediated syncytium. Seya T, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):135–44

Identification of fusion regulatory protein (FRP)–1/4F2 related molecules: cytoskeletal proteins are associated with FRP–1 molecules that regulate multinucleated giant cell formation of monocytes and HIV–induced cell fusion. Suga S, et al. **Cell Struct Funct** 1995 Dec;20(6):473–83

Properties of multinucleated giant cells in a new in vitro model for human granuloma formation. Seitzer U, et al. **J Pathol** 1997 May;182(1):99–105

METABOLISM

Characterization of CD4–gp120 activation intermediates during human immunodeficiency virus type 1 syncytium formation. Hart TK, et al. **AIDS Res Hum Retroviruses** 1996 Sep 20;12(14):1305–13

Cytokines expressed in multinucleated cells: Paget's disease and giant cell tumors versus normal bone. Mills BG, et al. **Calcif Tissue Int** 1997 Jul;61(1):16–21

Viral load and syncytium inducing HIV–1 variants indicate progression of perinatal HIV–infection [letter] Funk M, et al. **Eur J Pediatr** 1997 Apr;156(4):339

Post–infantile giant cell hepatitis in patients with primary sclerosing cholangitis and autoimmune hepatitis. Protzer U, et al. **Liver** 1996 Aug;16(4):274–82

Spatial polarization of insulin–like growth factor receptors on the human syncytiotrophoblast. Fang J, et al. **Pediatr Res** 1997 Feb;41(2):258–65

Effect of fetal growth restriction on system A amino acid transporter activity in the maternal facing plasma membrane of rat syncytiotrophoblast. Glazier JD, et al. **Pediatr Res** 1996 Aug;40(2):325–9

PATHOLOGY

Fine needle aspiration cytology of anaplastic carcinoma with osteoclastlike giant cells of the thyroid. A case report. Lee JS, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1309–12

Focal cortical dysplasia of Taylor, balloon cell subtype: MR differentiation from low–grade tumors. Bronen RA, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul;18(6):1141–51

Multinucleate giant cells in papillary thyroid carcinoma. A morphologic and immunohistochemical study. Guiter GE, et al. **Am J Clin Pathol** 1996 Dec;106(6):765–8

Atypical fibroxanthoma with osteoclast–like multinucleated giant cells. Khan ZM, et al. **Am J Dermatopathol** 1997 Apr; 19(2):174–9

Giant–cell chondrodysplasia in a male infant with clinical and radiological findings resembling the Piepkorn type of lethal osteochondrodysplasia. Urioste M, et al. **Am J Med Genet** 1997 Jan 31;68(3):342–6

Molecular genetic analysis of giant cell glioblastomas. Meyer–Puttlitz B, et al. **Am J Pathol** 1997 Sep;151(3):853–7

Herpesvirus 6 variant A infection after heart transplantation with giant cell transformation in bile ductular and gastroduodenal epithelium. Randhawa PS, et al. **Am J Surg Pathol** 1997 Jul;21(7):847–53

Presence of multinucleated giant cells around machined, sandblasted and plasma–sprayed titanium implants: a histological and histochemical time–course study in rabbit. Piattelli A, et al. **Biomaterials** 1996 Nov;17(21):2053–8

Syncytial cell formation in vivo by type C retroviral particles in the systemic lupus erythematosus (SLE) lung. Tamura N, et al. **Clin Exp Immunol** 1997 Mar;107(3):474–9

Polyarticular pigmented villonodular synovitis associated with multiple congenital anomalies. A case of Noonan–like/multiple giant cell lesion syndrome. Minisola G, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):207–10

Morphological aspects of giant cells in giant cell arteritis: an electron–microscopic and immunocytochemical study. Nordborg E, et al. **Clin Exp Rheumatol** 1997 Mar–Apr; 15(2):129–34

Macrophages, multinucleated giant cells, and apoptosis in HIV+ patients and normal blood donors. Ruibal–Ares B, et al. **Clin Immunol Immunopathol** 1997 Feb;82(2):102–16

Clonal HTLV–I–infected CD4+ T–lymphocytes and non–clonal non–HTLV–I–infected giant cells in incipient ATLL with Hodgkin–like histologic features. Ohshima K, et al. **Int J Cancer** 1997 Aug 7;72(4):592–8

Prognosis of intracranial germinoma with syncytiotrophoblastic giant cells treated by radiation therapy. Shibamoto Y, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):505–10

The starburst giant cell is useful for distinguishing lentigo maligna from photodamaged skin. Cohen LM. **J Am Acad Dermatol** 1996 Dec;35(6):962–8

Cyclin D1 overexpression promotes cardiomyocyte DNA synthesis and multinucleation in transgenic mice. Soonpaa MH, et al. **J Clin Invest** 1997 Jun 1;99(11):2644–54

Subfulminant syncytial giant cell hepatitis: recurrence after liver transplantation treated with ribavirin. Durand F, et al. **J Hepatol** 1997 Mar;26(3):722–6

PCNA and Ki–67 immunoreactivity in multinucleated cells of giant cell fibroma and peripheral giant cell granuloma. Mighell AJ, et al. **J Oral Pathol Med** 1996 May;25(5):193–9

A microassay for determination of the cytopathogenicity of human immunodeficiency virus type–1 isolates. Benyoucef S, et al. **Microbiol Immunol** 1996;40(5):381–8

Images in clinical medicine. Positive Tzanck smear. Cohen LM. **N Engl J Med** 1997 Aug 21;337(8):535

Giant cell–rich osteosarcoma: a case report. Sato K, et al. **Nagoya J Med Sci** 1996 Dec;59(3–4):151–7

Sarcomatoid hepatocellular carcinoma with osteoclast–like giant cells: case report and immunohistochemical observations. Sasaki A, et al. **Pathol Int** 1997 May; 47(5):318–24 (30 ref.)

Human papillomavirus (HPV)–associated neonatal giant cell hepatitis (NGCH). Drut R, et al. **Pediatr Pathol Lab Med** 1996 May–Jun;16(3):403–12

Monocyte aggregation and multinucleated giant–cell formation in vitro in Crohn's disease. The effect of cell adhesion molecules. Liu ZX, et al. **Scand J Gastroenterol** 1996 Jul;31(7):706–10

Giant cell pneumonia: light microscopy, immunohistochemical, and ultrastructural study of an autopsy case. Rahman SM, et al. **Ultrastruct Pathol** 1996 Nov–Dec;20(6):585–91

Encephalitis associated with giant cells in a cat with naturally occurring feline immunodeficiency virus infection demonstrated by in situ hybridization. Gunn–Moore DA, et al. **Vet Pathol** 1996 Nov;33(6):699–703

Methods for the differentiation of giant cells in canine and feline neoplasias in paraffin sections. Jösten M, et al. **Zentralbl Veterinarmed A** 1997 May;44(3):159–66

[Isolated congenital growth hormone deficiency. Severe hypoglycemia and neonatal giant cell hepatitis] Esberg BH, et al. **Ugeskr Laeger** 1996 Nov 4;158(45):6467–9 (Eng. Abstr.) **(Dan)**

[A case report of germinoma with syncytiotrophoblastic giant cells (STGC) in the basal ganglia] Ueda A, et al. **No Shinkei Geka** 1996 Mar;24(3):267–71 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Giant cell myocarditis] Iwasaki K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):73–5 (14 ref.) **(Jpn)**

PHYSIOLOGY

Functional analysis of trophoblast giant cells in parthenogenetic mouse embryos. Newman–Smith E, et al. **Dev Genet** 1997;20(1):1–10

Giant cells in pigmented villo nodular synovitis express an

GIANT CELLS

osteoclast phenotype. Neale SD, et al. **J Clin Pathol** 1997 Jul;50(7):605–8

Spontaneous switching between ortho– and antidromic spiking as the normal mode of firing in the cerebral giant neurons of freely behaving Lymnaea stagnalis. Jansen RF, et al. **J Neurophysiol** 1996 Dec;76(6):4206–9

Human immunodeficiency virus type 1 induces cellular polarization, intercellular adhesion molecule–1 redistribution, and multinucleated giant cell generation in human primary monocytes but not in monocyte–derived macrophages. Fais S, et al. **Lab Invest** 1996 Dec; 75(6):783–90

Giant cell formation in cells exposed to 740 nm and 760 nm optical traps. Liang H, et al. **Lasers Surg Med** 1997; 21(2):159–65

RADIATION EFFECTS

Giant cell formation in cells exposed to 740 nm and 760 nm optical traps. Liang H, et al. **Lasers Surg Med** 1997; 21(2):159–65

ULTRASTRUCTURE

"Osteoclast–like' giant cells in a feline mammary carcinoma [letter] De Vico G, et al. **J Submicrosc Cytol Pathol** 1997 Jan;29(1):153–5

Giant cell pneumonia: light microscopy, immunohistochemical, and ultrastructural study of an autopsy case. Rahman SM, et al. **Ultrastruct Pathol** 1996 Nov–Dec;20(6):585–91

VIROLOGY

Prevalence and incidence of HIV–1 syncytium–inducing phenotype among injecting drug users in south–eastern Italy [letter; comment] Angarano G, et al. **AIDS** 1996 Jun; 10(7):805–6. Comment on: AIDS 1995 Sep;9(9):1085–92.

Syncytium–inducing phenotype and zidovudine susceptibility of HIV–1 isolated from post–mortem tissue. McGavin CH, et al. **AIDS** 1996 Jan;10(1):47–53

Role of HLA class I in HIV type 1–induced syncytium formation. de Santis C, et al. **AIDS Res Hum Retroviruses** 1996 Jul 20;12(11):1031–40

Altered CD4 interactions of HIV type 1 LAI variants selected for the capacity to induce membrane fusion in the presence of a monoclonal antibody to domain 2 of CD4. Klasse PJ, et al. **AIDS Res Hum Retroviruses** 1996 Jul 20; 12(11):1015–21

Phenotypic switch in a Spanish HIV type 1 isolate on serial passage on MT–4 cells. Olivares I, et al. **AIDS Res Hum Retroviruses** 1997 Jul 20;13(11):979–84

The CD46 transmembrane domain is required for efficient formation of measles–virus–mediated syncytium. Seya T, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):135–44

Syncytial cell formation in vivo by type C retroviral particles in the systemic lupus erythematosus (SLE) lung. Tamura N, et al. **Clin Exp Immunol** 1997 Mar;107(3):474–9

Clonal HTLV–I–infected CD4+ T–lymphocytes and non–clonal non–HTLV–I–infected giant cells in incipient ATLL with Hodgkin–like histologic features. Ohshima K, et al. **Int J Cancer** 1997 Aug 7;72(4):592–8

A microassay for determination of the cytopathogenicity of human immunodeficiency virus type–1 isolates. Benyoucef S, et al. **Microbiol Immunol** 1996;40(5):381–8

HIV–1 in oropharyngeal lymphoid tissues [letter; comment] Rinfret A, et al. **Science** 1996 Nov 15;274(5290):1067–8. Comment on: Science 1996 Apr 5;272(5258):115–7.

Avian reovirus–induced syncytium formation is independent of infectious progeny virus production and enhances the rate, but is not essential, for virus–induced cytopathology and virus egress. Duncan R, et al. **Virology** 1996 Oct 15; 224(2):453–64

Inhibition of HTLV–I induction and virus–induced syncytia formation by oligodeoxynucleotides. Miyano–Kurosaki N, et al. **Virus Genes** 1996;12(3):205–17

GIANT CELLS, FOREIGN–BODY

PATHOLOGY

Multinucleated giant cells in thyroid neoplasms. A cytologic, histologic and immunohistochemical study. Tabbara SO, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1184–8

[Fatal outcome of dilated cardiomyopathy with unusual histologic findings] Schmidt W, et al. **Internist (Berl)** 1996 Sep;37(9):926–30 **(Ger)**

GIANT CELLS, LANGHANS

Case discussion of coccidioidomycosis of the ankle [letter] Vigorita VJ. **Clin Orthop** 1996 Nov;(332):305–6

GIANT CELLS, MULTINUCLEATED see **GIANT CELLS**

GIANT LYMPH NODE HYPERPLASIA

Iron therapy resistant microcytic anaemia in a 13–year–old girl with Castleman disease. De Heer–Groen TA, et al. **Eur J Pediatr** 1996 Dec;155(12):1015–7

Castleman's disease. A case report. Arslan D, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):361–6

[Retroperitoneal Castleman's disease. Presentation of a clinical case] Guglielmi A, et al. **Ann Ital Chir** 1996 Jul–Aug;67(4):565–8; discussion 568–9 (Eng. Abstr.) **(Ita)**

BLOOD

Multicentric Castleman's disease with an increased serum level of macrophage colony–stimulating factor. Lee M, et al. **Am J Hematol** 1997 Apr;54(4):321–3

COMPLICATIONS

Multicentric Castleman's disease in HIV infection: a clinical and pathological study of 20 patients. Oksenhendler E, et al. **AIDS** 1996 Jan;10(1):61–7

Potential heterosexual Kaposi's sarcoma–associated herpesvirus transmission in a couple with HIV–induced immunodepression and with Kaposi's sarcoma and multicentric Castleman's disease [letter] Tirelli U, et al. **AIDS** 1996 Sep;10(11):1291–2

Childhood paraneoplastic pemphigus associated with Castleman's tumour. Lemon MA, et al. **Br J Dermatol** 1997 Jan;136(1):115–7

Hyper–IgE multicentric Castleman's disease: eosinophilic skin eruption, generalized lymphadenopathy, and polyclonal hyperimmunoglobulinaemia with an extremely high serum IgE level [letter] Ujihara M, et al. **Br J Dermatol** 1996 Aug;135(2):339–40

Absence of Kaposi's sarcoma associated herpesvirus–like DNA sequences (KSHV) in HIV–negative multicentric Castleman's disease complicated by KSHV–positive Kaposi's sarcoma [letter] Kwong YL, et al. **Br J Haematol** 1997 Mar;96(4):881–2

Cold agglutininemia with acrocyanosis in multicentric Castleman's disease: a case report. Chuang SS, et al. **Chang Keng I Hsueh** 1995 Dec;18(4):378–82

Fatal diarrhea in a patient with Castleman's disease associated with intestinal amyloidosis. Miura A, et al. **Intern Med** 1995 Nov;34(11):1106–9

Exacerbations of clinical symptoms in human immunodeficiency virus type 1–infected patients with multicentric Castleman's disease are associated with a high increase in Kaposi's sarcoma herpesvirus DNA load in peripheral blood mononuclear cells. Grandadam M, et al. **J Infect Dis** 1997 May;175(5):1198–201

Gastrointestinal lymphonodular hyperplasia and lymphoid polyps of the rectum—a rare coincidence. Rutsch F, et al. **Z Gastroenterol** 1997 Apr;35(4):271–5

[Chest wall Castleman's disease with massive pleural effusion] Sasaki H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May;34(5):597–600 (Eng. Abstr.) **(Jpn)**

[Idiopathic plasmacytic lymphadenopathy with polyclonal hyperimmunoglobulinemia in a patient who died of progressive peripheral polyneuritis and cerebral dysfunction] Kishimoto K, et al. **Rinsho Ketsueki** 1997 Feb; 38(2):117–23 (Eng. Abstr.) **(Jpn)**

[Erythropoietin improved anemia in a case of multicentric Castleman's disease] Otsubo H, et al. **Rinsho Ketsueki** 1996 Dec;37(12):1425–7 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

No effect of protease inhibitor on clinical and virological evolution of Castleman's disease in an HIV–1–infected patient [letter] Dupin N, et al. **AIDS** 1997 Sep;11(11):1400–1

Disorders that resemble lymphomas [clinical conference] Phatak PD, et al. **Am J Hematol** 1997 Sep;56(1):63–8

Autoimmune findings resembling connective tissue disease in a patient with Castleman's disease. Gohlke F, et al. **Clin Rheumatol** 1997 Jan;16(1):87–92 (22 ref.)

Pelvic giant lymph node hyperplasia (Castleman's disease): a surgical and radiological approach. Schwartz A, et al. **Eur J Surg** 1996 Dec;162(12):993–6 (15 ref.)

Castleman's disease in the neck: MRI. Ide C, et al. **Neuroradiology** 1997 Jul;39(7):520–2

Unusual case of inflammatory spinal epidural mass (Castleman syndrome). Alper G, et al. **Pediatr Neurol** 1996 Jul;15(1):60–2 (15 ref.)

Pelvic mass in 46–year old man. Flórez J, et al. **Postgrad Med J** 1997 Jun;73(860):371–3 (12 ref.)

[Castleman's disease] Larroche C, et al. **Rev Med Interne** 1996;17(12):1003–13 (81 ref.) (Eng. Abstr.) **(Fre)**

[A case of nodular lymphoid hyperplasia of the small bowel in a patient with intestinal obstruction] Brotzu C, et al. **G Chir** 1997 Jun–Jul;18(6–7):355–8 (Eng. Abstr.) **(Ita)**

[Fever of unknown origin as initial manifestation of Castleman's disease: apropos of 2 cases] Zambrana Garćia JL, et al. **An Med Interna** 1996 Oct;13(10):500–1 (Eng. Abstr.) **(Spa)**

[Pelvic Castleman's disease: apropos of a case] Calvo Villas JM, et al. **Sangre (Barc)** 1996 Jun;41(3):241–3 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

No effect of protease inhibitor on clinical and virological evolution of Castleman's disease in an HIV–1–infected patient [letter] Dupin N, et al. **AIDS** 1997 Sep;11(11):1400–1

ETIOLOGY

Castleman's disease in a renal allograft recipient [letter] Cagirgan S, et al. **Nephron** 1997;76(3):352–3

GENETICS

Inactivation of the IL–6 gene prevents development of multicentric Castleman's disease in C/EBP beta–deficient mice. Screpanti I, et al. **J Exp Med** 1996 Oct 1; 184(4):1561–6

IMMUNOLOGY

Interleukin–6 receptor expression in the peripheral B cells of patients with multicentric Castleman's disease. Ishiyama T, et al. **Ann Hematol** 1996 Oct;73(4):179–82

The presence of CD28–negative T cells in a patient with multicentric Castleman's disease. Ishiyama T, et al. **Ann Hematol** 1996 Oct;73(4):199–200

Autoimmune findings resembling connective tissue disease in a patient with Castleman's disease. Gohlke F, et al. **Clin Rheumatol** 1997 Jan;16(1):87–92 (22 ref.)

Severe erosive stomatitis: association with immunological diseases? Reynaers A, et al. **Dermatology** 1997;194(4):411–5 (24 ref.)

Autoimmune hemolytic anemia in multicentric Castleman's disease. Liberato NL, et al. **Haematologica** 1996 Jan–Feb; 81(1):40–43

Nodular lymphoid hyperplasia of the terminal ileum: report of a case and the findings of an immunological analysis. Yamaue H, et al. **Surg Today** 1996;26(6):431–4

METABOLISM

Heat shock–enhanced T cell apoptosis with heat shock protein 70 on T cell surface in multicentric Castleman's disease. Ishiyama T, et al. **Clin Exp Immunol** 1996 Nov; 106(2):351–6

PATHOLOGY

Potential pitfalls in the diagnosis of Castleman's disease of the mediastinum on fine needle aspiration biopsy [letter] Cangiarella J, et al. **Acta Cytol** 1997 May–Jun;41(3):951–2

Castleman's disease: a case report. Leung SY, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):132–7

Castleman's disease and lymphoepithelial cysts of the parotid in childhood. Santonja C, et al. **Histopathology** 1997 Apr; 30(4):369–72

Nasopharyngeal Castleman's disease. Tsai MH, et al. **J Formos Med Assoc** 1996 Nov;95(11):877–80

Castleman's disease of broad ligament. Mondal AK, et al. **J Indian Med Assoc** 1996 Dec;94(12):453–4

Castleman's disease: a clinicopathologic study of 12 cases. Kasantikul V, et al. **J Med Assoc Thai** 1997 Mar; 80(3):195–201

Parotid presentation of Castleman's disease: report of a case. Goodisson DW, et al. **J Oral Maxillofac Surg** 1997 May; 55(5):515–7

Multicentric angiofollicular lymph node hyperplasia in children: a clinicopathologic study of eight patients. Smir BN, et al. **Mod Pathol** 1996 Dec;9(12):1135–42

Reactive lymphoid hyperplasia of the liver characterized by an angiofollicular pattern mimicking Castleman's disease. Tanizawa T, et al. **Pathol Int** 1996 Oct;46(10):782–6

Hepatic lesions of vascular origin in multicentric Castleman's disease, plasma cell type: report of one case with peliosis hepatis and another with perisinusoidal fibrosis and nodular regenerative hyperplasia. Molina T, et al. **Pathol Res Pract** 1995 Nov;191(11):1159–64

Lymphangiomatous hamartoma of the spleen. Narita T, et al. **Pathol Res Pract** 1995 Nov;191(11):1165–7

Critical comentary to "lymphangiomatous hamartoma of the spleen". Sakuma T. **Pathol Res Pract** 1995 Nov; 191(11):1168–9

Kaposi's sarcoma–associated herpesvirus: a lymphotropic human herpesvirus associated with Kaposi's sarcoma, primary effusion lymphoma, and multicentric Castleman's disease. Cesarman E, et al. **Semin Diagn Pathol** 1997 Feb; 14(1):54–66 (153 ref.)

RADIOGRAPHY

Unusual computed tomography appearance of Castleman disease. Nunna SV, et al. **Australas Radiol** 1997 May; 41(2):193–5

Castles in the air? Bradley AJ, et al. **Br J Radiol** 1997 Jul; 70(835):767–8

Castleman disease in the porta hepatis: biphasic helical computed tomography. Peck D, et al. **Can Assoc Radiol J** 1996 Dec;47(6):410–2

Castleman's disease restricted to the infratemporal fossa. Rodrigo JP, et al. **J Laryngol Otol** 1996 Sep;110(9):896–8

Multicentric Castleman's disease and POEMS syndrome: CT findings. Kirsch CF, et al. **J Thorac Imaging** 1997 Jan; 12(1):75–7

Castleman's disease of the mesentery in a child: a case of seven years' duration without typical X–ray findings. Mäkipernaa A, et al. **Med Pediatr Oncol** 1997 May; 28(5):362–5

Multicentric Castleman's disease: imaging findings. Feldman DR, et al. **South Med J** 1996 Dec;89(12):1159–61

[Benign mediastinal opacity: Castleman disease, apropos of a case and review of the current literature] Cuguilliére A, et al. **Rev Pneumol Clin** 1997;53(1):21–6 (22 ref.) (Eng. Abstr.) **(Fre)**

[Castleman lymphoma: isolated abdominal involvement with an 8–year course in a child] Strunk H, et al. **Aktuelle Radiol** 1997 Jul;7(4):193–6 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Castleman disease in the anterior neck: the role of Ga-67 scintigraphy. Kinoshita T, et al. **Clin Nucl Med** 1996 Aug; 21(8):626-8

FDG-PET appearance of pelvic Castleman's disease. Murphy SP, et al. **J Nucl Med** 1997 Aug;38(8):1211-2

THERAPY

Poor response to intravenous immunoglobulin therapy in patients with Castleman's disease and the POEMS syndrome [letter; comment] Huang CC, et al. **J Neurol** 1996 Oct;243(10):726-7. Comment on: J Neurol 1995 Jul;242(7):482-3.

ULTRASONOGRAPHY

Multicentric Castleman's disease: imaging findings. Feldman DR, et al. **South Med J** 1996 Dec;89(12):1159-61

VIROLOGY

The role of human herpesvirus 8 and Epstein-Barr virus in the pathogenesis of giant lymph node hyperplasia (Castleman's disease). Corbellino M, et al. **Clin Infect Dis** 1996 Jun;22(6):1120-1

Kaposi's sarcoma-associated herpesvirus (KSHV): a new viral pathogen associated with Kaposi's sarcoma, primary effusion lymphoma, and multicentric Castleman's disease. Said J. **West J Med** 1997 Jul;167(1):37-8

GIANT PLATELET SYNDROME see **BERNARD-SOULIER SYNDROME**

GIARDIA

Giardia. Conboy G. **Can Vet J** 1997 Apr;38(4):245-7 (15 ref.)

DRUG EFFECTS

Albendazole resistance in Giardia is correlated with cytoskeletal changes but not with a mutation at amino acid 200 in beta-tubulin. Upcroft J, et al. **Microb Drug Resist** 1996 Fall;2(3):303-8

Quinacrine-resistant Giardia duodenalis. Upcroft JA, et al. **Parasitology** 1996 Mar;112 (Pt 3):309-13

ENZYMOLOGY

A primitive enzyme for a primitive cell: the protease required for excystation of Giardia. Ward W, et al. **Cell** 1997 May 2;89(3):437-44

A H2O-producing NADH oxidase from the protozoan parasite Giardia duodenalis. Brown DM, et al. **Eur J Biochem** 1996 Oct 1;241(1):155-61

A novel protein kinase gene family in Giardia duodenalis. Chen N, et al. **Gene** 1996 Oct 24;177(1-2):191-4

A thioredoxin reductase-class of disulphide reductase in the protozoan parasite Giardia duodenalis. Brown DM, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):211-20

Purification and characterization of encystment-induced glucosamine 6-phosphate isomerase in Giardia. Steimle PA, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):149-53

Characterisation and purification of pyruvate:ferredoxin oxidoreductase from Giardia duodenalis. Townson SM, et al. **Mol Biochem Parasitol** 1996 Aug;79(2):183-93

GENETICS

Detection of viable Giardia cysts by amplification of heat shock-induced mRNA. Abbaszadegan M, et al. **Appl Environ Microbiol** 1997 Jan;63(1):324-8

Telomeric organization of a variable and inducible toxin gene family in the ancient eukaryote Giardia duodenalis. Upcroft P, et al. **Genome Res** 1997 Jan;7(1):37-46

Ribosomal RNA sequencing reveals differences between the genotypes of Giardia isolates recovered from humans and dogs living in the same locality. Hopkins RM, et al. **J Parasitol** 1997 Feb;83(1):44-51

Morphological and molecular characterization of Giardia isolated from the straw-necked ibis (Threskiornis spinicollis) in Western Australia. McRoberts KM, et al. **J Parasitol** 1996 Oct;82(5):711-8

Cloning and characterization of the gene encoding pyruvate phosphate dikinase from Giardia duodenalis. Bruderer T, et al. **Mol Biochem Parasitol** 1996 May;77(2):225-33

Mapping variation in chromosome homologues of different Giardia strains. Upcroft JA, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1-2):135-43

Comparison of genetic groups determined by molecular and immunological analyses of Giardia isolated from animals and humans in Switzerland and Australia. Ey PL, et al. **Parasitol Res** 1996;82(1):52-60

GROWTH & DEVELOPMENT

A primitive enzyme for a primitive cell: the protease required for excystation of Giardia. Ward W, et al. **Cell** 1997 May 2;89(3):437-44

IMMUNOLOGY

Comparison of antibody and cytokine responses to primary Giardia muris infection in H-2 congenic strains of mice. Venkatesan P, et al. **Infect Immun** 1996 Nov;64(11):4525-33

A comparison of mucosal inflammatory responses to Giardia muris in resistant B10 and susceptible BALB/c mice. Venkatesan P, et al. **Parasite Immunol** 1997 Mar; 19(3):137-43

ISOLATION & PURIFICATION

Detection of viable Giardia cysts by amplification of heat shock-induced mRNA. Abbaszadegan M, et al. **Appl Environ Microbiol** 1997 Jan;63(1):324-8

An evaluation of methods for the simultaneous detection of Cryptosporidium oocysts and Giardia cysts from water. Shepherd KM, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1317-22

A rapid viability assay for Cryptosporidium oocysts and Giardia cysts for use in conjunction with indirect fluorescent antibody detection. Dowd SE, et al. **Can J Microbiol** 1997 Jul;43(7):658-62

Sources of variation in isolation rate of Giardia lamblia cysts and their homogeneous distribution in river water entering a water treatment plant. Payment P, et al. **Can J Microbiol** 1997 Jul;43(7):687-9

Nucleic acid stains as indicators of Giardia muris viability following cyst inactivation. Taghi-Kilani R, et al. **Int J Parasitol** 1996 Jun;26(6):637-46

The prevalence of shedding of Cryptosporidium and Giardia spp. based on a single fecal sample collection from each of 91 horses used for backcountry recreation. Johnson E, et al. **J Vet Diagn Invest** 1997 Jan;9(1):56-60

Giardia survey in live-trapped small domestic and wild mammals in four regions in the southwest region of the state of São Paulo, Brazil. Sogayar MI, et al. **Mem Inst Oswaldo Cruz** 1995 Nov-Dec;90(6):675-8

A comparison of phase contrast microscopy and an immunofluorescence test for the detection of Giardia spp. in faecal specimens from cattle and wild rodents. Karanis P, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun; 90(3):250-1

Giardia and Cryptosporidium in Canadian farm animals. Olson ME, et al. **Vet Parasitol** 1997 Mar;68(4):375-81

Possible contamination of surface waters with Giardia spp. through muskrats. Karanis P, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):302-6

Giardia and Cryptosporidium in backwash water from rapid sand filters used for drinking water production. Karanis P, et al. **Zentralbl Bakteriol** 1996 Jun;284(1):107-14

[PCR for detection and characterization of parasites (Leishmania, Echinococcus, Microsporodia, Giardia)] Mathis A, et al. **Schweiz Arch Tierheilkd** 1996;138(3):133-8 (Eng. Abstr.) **(Ger)**

METABOLISM

Uptake and cellular localization of exogenous lipids by Giardia lamblia, a primitive eukaryote. Stevens TL, et al. **Exp Parasitol** 1997 Jun;86(2):133-43

PATHOGENICITY

Lethal Giardia from a wild-caught sulphur-crested cockatoo (Cacatua galerita) established in vitro chronically infects mice. Upcroft JA, et al. **Parasitology** 1997 May;114 (Pt 5):407-12

PHYSIOLOGY

Primary structure and biochemical properties of a variant-specific surface protein of Giardia. Papanastasiou P, et al. **Mol Biochem Parasitol** 1997 May;86(1):13-27

ULTRASTRUCTURE

Morphological and molecular characterization of Giardia isolated from the straw-necked ibis (Threskiornis spinicollis) in Western Australia. McRoberts KM, et al. **J Parasitol** 1996 Oct;82(5):711-8

GIARDIA INTESTINALIS see **GIARDIA LAMBLIA**

GIARDIA LAMBLIA

see related
GIARDIAVIRUS

Coinfection with Giardia lamblia and Enterocytozoon bieneusi in a patient with acquired immunodeficiency syndrome and chronic diarrhea. Hewan-Lowe K, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):417-22

[Recurrent acute Giardia intestinalis pancreatitis (letter)] Chapoutot C, et al. **Gastroenterol Clin Biol** 1997;21(5):438-9 **(Fre)**

CHEMISTRY

Purification of a fraction of Giardia lamblia trophozoite extract associated with disaccharidase deficiencies in immune Mongolian gerbils (Meriones unguiculatus). Mohammed SR, et al. **Parasite** 1995 Mar;2(1):31-9

CYTOLOGY

Giardia intestinalis: volume recovery in response to cell swelling. Park JH, et al. **Exp Parasitol** 1997 May; 86(1):19-28

DRUG EFFECTS

Role of nitric oxide and superoxide in Giardia lamblia killing. Fernandes PD, et al. **Braz J Med Biol Res** 1997 Jan; 30(1):93-9

Induction of albendazole resistance in Giardia lamblia. Lindquist HD. **Microb Drug Resist** 1996 Winter;2(4):433-4

ENZYMOLOGY

Involvement and identification of a lysine in the PPi-site of pyrophosphate-dependent phosphofructokinase from Giardia lamblia. Li Z, et al. **Biochimie** 1997 Apr;79(4):221-7

Giardia intestinalis: purification and partial amino acid sequence of arginine deiminase. Knodler LA, et al. **Exp Parasitol** 1997 Jan;85(1):77-80

Pyruvate kinase is present in Giardia intestinalis. Park JH, et al. **Exp Parasitol** 1997 Oct;87(2):153-6

Isolation, characterization and expression of the gene encoding cytidine triphosphate synthetase from Giardia intestinalis. Lim RL, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):249-57

Cloning, expression and characterization of an unusual guanine phosphoribosyltransferase from Giardia lamblia. Sommer JM, et al. **Mol Biochem Parasitol** 1996 Jun; 78(1-2):185-93

GENETICS

Comparison of primers and optimization of PCR conditions for detection of Cryptosporidium parvum and Giardia lamblia in water. Rochelle PA, et al. **Appl Environ Microbiol** 1997 Jan;63(1):106-14

A revised endosymbiont hypothesis to explain the bacterial origin of amebic glycolytic and fermentation enzymes. Rosenthal B, et al. **Arch Med Res** 1997;28 Spec No:71-2

A homage to Giardia. Nasmyth K. **Curr Biol** 1996 Sep 1; 6(9):1042

Distinct annexin subfamilies in plants and protists diverged prior to animal annexins and from a common ancestor. Morgan RO, et al. **J Mol Evol** 1997 Feb;44(2):178-88

The molecular pathogenesis of giardiasis. Farthing MJ. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):79-88 (94 ref.)

Isolation, characterization and expression of the gene encoding cytidine triphosphate synthetase from Giardia intestinalis. Lim RL, et al. **Mol Biochem Parasitol** 1996 Jun;78(1-2):249-57

Immunolocalization and sequence of caltractin/centrin from the early branching eukaryote Giardia lamblia. Meng TC, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):103-8

Sequence of a Giardia lamblia gene coding for the glycolytic enzyme, pyruvate,phosphate dikinase. Nevalainen L, et al. **Mol Biochem Parasitol** 1996 May;77(2):217-23

Developmentally regulated transcripts and evidence of differential mRNA processing in Giardia lamblia. Que X, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):101-10

Sequence of a malic enzyme gene of Giardia lamblia. Sánchez LB, et al. **Mol Biochem Parasitol** 1996 Nov 25;82(2):145-51

Cloning, expression and characterization of an unusual guanine phosphoribosyltransferase from Giardia lamblia. Sommer JM, et al. **Mol Biochem Parasitol** 1996 Jun; 78(1-2):185-93

A group of Giardia lamblia variant-specific surface protein (VSP) genes with nearly identical 5' regions. Yang Y, et al. **Mol Biochem Parasitol** 1995 Dec;75(1):69-74

Stable coexpression of a drug-resistance gene and a heterologous gene in an ancient parasitic protozoan Giardia lamblia. Yu DC, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):81-91

GROWTH & DEVELOPMENT

Formation of the Giardia cyst wall: studies on extracellular assembly using immunogold labeling and high resolution field emission SEM. Erlandsen SL, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):416-29

A comparison of conventional microscopy, immunofluorescence microscopy and flow cytometry in the detection of Giardia lamblia cysts in beaver fecal samples. Dixon BR, et al. **J Immunol Methods** 1997 Mar 10;202(1):27-33

Mechanisms of Giardia lamblia differentiation into cysts. Luján HD, et al. **Microbiol Mol Biol Rev** 1997 Sep; 61(3):294-304 (166 ref.)

IMMUNOLOGY

Giardia duodenalis: analysis of humoral immune response in experimentally infected gerbils (Meriones unguiculatus). Argüello-García R, et al. **Arch Med Res** 1997 Summer; 28(2):171-8

The efficacy of a Giardia lamblia vaccine in kittens. Olson ME, et al. **Can J Vet Res** 1996 Oct;60(4):249-56

Evaluation of a commercially available ELISA for detection of Giardia lamblia antigen in faeces: preliminary results in unconventional samples. Bisoffi Z, et al. **Eur J Epidemiol** 1995 Dec;11(6):703-5

Giardia lamblia infections in B-cell-deficient transgenic mice. Stager S, et al. **Infect Immun** 1997 Sep;65(9):3944-6

Systemic and local antibody response in mice induced by a recombinant peptide fragment from Giardia lamblia variant surface protein (VSP) H7 produced by a Salmonella typhimurium vaccine strain. Stäger S, et al. **Int J Parasitol** 1997 Aug;27(8):965-71

Immunological and histopathological study on splenectomized mice infected with Giardia lamblia. Yassien NA, et al. **J Egypt Soc Parasitol** 1996 Dec;26(3):661-9

A comparison of conventional microscopy,

immunofluorescence microscopy and flow cytometry in the detection of Giardia lamblia cysts in beaver fecal samples. Dixon BR, et al. **J Immunol Methods** 1997 Mar 10;202(1):27–33

Dot ELISA for antibody detection in giardiasis. Baqai R, et al. **JPMA J Pak Med Assoc** 1995 Dec;45(12):324

Giardia lamblia variant surface protein H7 stimulates a heterogeneous repertoire of antibodies displaying differential cytological effects on the parasite. Stäger S, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):113–24

Biochemical and immunological characterization of soluble antigens of Giardia lamblia. Chaudhuri PP, et al. **Parasitol Res** 1997;83(6):604–10

ISOLATION & PURIFICATION

Identification of Giardia lamblia by gastric brush cytology [letter] Muñoz E, et al. **Acta Cytol** 1996 Nov–Dec; 40(6):1331–2

Comparison of primers and optimization of PCR conditions for detection of Cryptosporidium parvum and Giardia lamblia in water. Rochelle PA, et al. **Appl Environ Microbiol** 1997 Jan;63(1):106–14

Protozoal colonization of the intestinal tract in institutionalized Romanian children. Brannan DK, et al. **Clin Infect Dis** 1996 Mar;22(3):456–61

Seasonal prevalences of Cryptosporidium and Giardia infections in children attending day care centres in Salamanca (Spain) studied for a period of 15 months. Rodriguez-Hernández J, et al. **Eur J Epidemiol** 1996 Jun; 12(3):291–5

Evaluation of nine immunoassay kits (enzyme immunoassay and direct fluorescence) for detection of Giardia lamblia and Cryptosporidium parvum in human fecal specimens. Garcia LS, et al. **J Clin Microbiol** 1997 Jun;35(6):1526–9

Unwanted holiday souvenirs: who should pay? [letter] Hardie RM, et al. **Lancet** 1997 Sep 27;350(9082):964

[Detection of the parasite Giardia intestinalis during feces examination with immunoenzymatic and microscopic methods] Kołakowska R, et al. **Pol Tyg Lek** 1996 Apr; 51(14–18):210–1 **(Pol)**

METABOLISM

The variant-specific surface protein of Giardia, VSP4A1, is a glycosylated and palmitoylated protein. Papanastasiou P, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):49–56

Giardia lamblia: evidence for carrier-mediated uptake and release of conjugated bile acids. Das S, et al. **Exp Parasitol** 1997 Oct;87(2):133–41

Giardia intestinalis: volume recovery in response to cell swelling. Park JH, et al. **Exp Parasitol** 1997 May; 86(1):19–28

Polyglycylation of tubulin in the diplomonad Giardia lamblia, one of the oldest eukaryotes. Weber K, et al. **FEBS Lett** 1996 Sep 9;393(1):27–30

Ultrastructural effects of lactoferrin binding on Giardia lamblia trophozoites. Turchany JM, et al. **J Eukaryot Microbiol** 1997 Jan–Feb;44(1):68–72

Amplification, expression, and packaging of a foreign gene by giardiavirus in Giardia lamblia. Yu DC, et al. **J Virol** 1996 Dec;70(12):8752–7

Changes in lipid composition during in vitro encystation and fatty acid desaturase activity of Giardia lamblia. Ellis JE, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):13–25

Developmentally regulated transcripts and evidence of differential mRNA processing in Giardia lamblia. Que X, et al. **Mol Biochem Parasitol** 1996 Oct 18;81(1):101–10

PARASITOLOGY

Giardia. Heresi G, et al. **Pediatr Rev** 1997 Jul;18(7):243–7

PATHOGENICITY

Giardia. Heresi G, et al. **Pediatr Rev** 1997 Jul;18(7):243–7

PHYSIOLOGY

Cell biology of the primitive eukaryote Giardia lamblia. Gillin FD, et al. **Annu Rev Microbiol** 1996;50:679–705

Cholesterol starvation induces differentiation of the intestinal parasite Giardia lamblia. Luján HD, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7628–33

ULTRASTRUCTURE

A deep-etch study of the cytoskeleton of Giardia duodenalis. Kattenbach WM, et al. **Biol Cell** 1996;86(2–3):161–6

Identification of endoplasmic reticulum in the primitive eukaryote Giardia lamblia using cryoelectron microscopy and antibody to Bip. Soltys BJ, et al. **J Cell Sci** 1996 Jul; 109 (Pt 7):1909–17

GIARDIASIS

BLOOD

Some hematimetric findings in human Giardia lamblia infection. Dos Santos JI, et al. **Rev Inst Med Trop Sao Paulo** 1996 Mar–Apr;38(2):91–5

The assessment of functional status of blood platelets in patients infected with Giardia intestinalis after anti-parasitic treatment. Matowicka-Karna J, et al. **Rocz Akad Med Bialymst** 1995;40(2):250–9

CHEMICALLY INDUCED

Proton-pump inhibition and gastric giardiasis: a causal or casual association? Reynaert H, et al. **J Gastroenterol** 1995 Dec;30(6):775–8

COMPLICATIONS

Secondary impairment of pancreatic function as a cause of severe malabsorption in intestinal giardiasis: a case report. Carroccio A, et al. **Am J Trop Med Hyg** 1997 Jun; 56(6):599–602

Giardiasis as a cause of hypokalemic myopathy in congenital immunodeficiency. Genovese A, et al. **Int J Clin Lab Res** 1996;26(2):132–5

Asymptomatic giardiasis does not affect iron absorption in children with iron deficiency anemia [see comments] De Morais MB, et al. **J Am Coll Nutr** 1996 Oct;15(5):434–8 . Comment in: J Am Coll Nutr 1996 Oct;15(5):421.

Iron deficiency, giardiasis and HIV disease [editorial; comment] Filer LJ Jr. **J Am Coll Nutr** 1996 Oct;15(5):421 . Comment on: J Am Coll Nutr 1996 Oct;15(5):434–8.

Weight gain in children with asymptomatic giardiasis and iron-deficiency anaemia during oral iron therapy [letter] De Morais MB, et al. **J Trop Pediatr** 1997 Apr;43(2):121–2

[Recurrent acute Giardia intestinalis pancreatitis (letter)] Chapoutot C, et al. **Gastroenterol Clin Biol** 1997;21(5):438–9 **(Fre)**

[Lambliasis—a treatment responsive complication of Crohn disease] Scheurlen C. **Fortschr Med** 1996 Feb 20; 114(5):53–4 **(Ger)**

[Parasitic invasions and bronchial obstruction] Shchennikov EL, et al. **Klin Med (Mosk)** 1996;74(7):48–50 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Identification of Giardia lamblia by gastric brush cytology [letter] Muñoz E, et al. **Acta Cytol** 1996 Nov–Dec; 40(6):1331–2

Dot ELISA for antibody detection in giardiasis. Baqai R, et al. **JPMA J Pak Med Assoc** 1995 Dec;45(12):324

Frequency of Giardia and Cryptosporidium infections in Egyptian children as determined by conventional and immunofluorescence methods. Stazzone AM, et al. **Pediatr Infect Dis J** 1996 Nov;15(11):1044–6

[Giardiasis (lambliasis) in childhood] Sitzmann FC, et al. **Klin Padiatr** 1996 Mar–Apr;208(2):91 **(Ger)**

[PCR for detection and characterization of parasites (Leishmania, Echinococcus, Microsporodia, Giardia)] Mathis A, et al. **Schweiz Arch Tierheilkd** 1996;138(3):133–8 (Eng. Abstr.) **(Ger)**

[Giardiasis] Olszok I, et al. **Przegl Lek** 1996;53(7):579–81 (17 ref.) (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Albendazole as a treatment for Giardia infection. Pungpak S, et al. **Ann Trop Med Parasitol** 1996 Oct;90(5):563–5

Role of nitric oxide and superoxide in Giardia lamblia killing. Fernandes PD, et al. **Braz J Med Biol Res** 1997 Jan; 30(1):93–9

Effect of ivermectin on combined intestinal protozoal infection (giardiasis and cryptosporidiosis). Youssef MY, et al. **J Egypt Soc Parasitol** 1996 Dec;26(3):543–53

Management of giardiasis by a herbal drug 'Pippali Rasayana': a clinical study. Agarwal AK, et al. **J Ethnopharmacol** 1997 May;56(3):233–6

Efficacy of a combined diloxanide furoate-metronidazole preparation in the treatment of amoebiasis and giardiasis. Qureshi H, et al. **J Int Med Res** 1997 May–Jun;25(3):167–70

The assessment of functional status of blood platelets in patients infected with Giardia intestinalis after anti-parasitic treatment. Matowicka-Karna J, et al. **Rocz Akad Med Bialymst** 1995;40(2):250–9

Alternative treatment protocols in giardiasis: a pilot study. Bulut BU, et al. **Scand J Infect Dis** 1996;28(5):493–5

A systematic review on the treatment of giardiasis. Zaat JO, et al. **Trop Med Int Health** 1997 Jan;2(1):63–82 (80 ref.)

[A therapeutic trial in Giardia muris infection in the mouse with metronidazole, tinidazole, secnidazole and furazolidone] Cruz CC, et al. **Rev Soc Bras Med Trop** 1997 May–Jun;30(3):223–8 (Eng. Abstr.) **(Por)**

[Randomized study comparing the safety and efficacy of albendazole and metronidazole in the treatment of giardiasis in children] Romero-Cabello R, et al. **Rev Latinoam Microbiol** 1995 Oct–Dec;37(4):315–23 (Eng. Abstr.) **(Spa)**

ECONOMICS

Unwanted holiday souvenirs: who should pay? [letter] Hardie RM, et al. **Lancet** 1997 Sep 27;350(9082):964

ENZYMOLOGY

Purification of a fraction of Giardia lamblia trophozoite extract associated with disaccharidase deficiencies in immune Mongolian gerbils (Meriones unguiculatus). Mohammed SR, et al. **Parasite** 1995 Mar;2(1):31–9

EPIDEMIOLOGY

Severe giardiasis and cryptosporidiosis in Scotland, UK. Robertson LJ. **Epidemiol Infect** 1996 Dec;117(3):551–61

Giardiasis in HIV: a possible role in patients with severe immune deficiency. Angarano G, et al. **Eur J Epidemiol** 1997 Jun;13(4):485–7

Seasonal prevalences of Cryptosporidium and Giardia infections in children attending day care centres in Salamanca (Spain) studied for a period of 15 months. Rodríguez-Hernández J, et al. **Eur J Epidemiol** 1996 Jun; 12(3):291–5

Giardiasis and amebiasis in southern Iran [letter] Mirdehghan MM. **Indian Pediatr** 1996 May;33(5):431–2

Prevalence of Giardia lamblia and other intestinal parasitic infection in Dhanbad, Bihar. Saha SS, et al. **J Commun Dis** 1996 Jun;28(2):146–7

Giardia survey in live-trapped small domestic and wild mammals in four regions in the southwest region of the state of São Paulo, Brazil. Sogayar MI, et al. **Mem Inst Oswaldo Cruz** 1995 Nov–Dec;90(6):675–8

Occurrence of Giardia lamblia in children of municipal day-care centers from Botucatu, São Paulo State, Brazil. Guimarães S, et al. **Rev Inst Med Trop Sao Paulo** 1995 Nov–Dec;37(6):501–6

[Giardiasis and cryptosporidiosis in day-care centers in the municipality Campinas SP] Franco RM, et al. **Rev Soc Bras Med Trop** 1996 Nov–Dec;29(6):585–91 (Eng. Abstr.) **(Por)**

[Prevalence of Cryptosporidium and Giardia in different population groups (letter; comment)] Canut Blasco A, et al. **Med Clin (Barc)** 1996 Jun 22;107(4):156–7. Comment on: Med Clin (Barc) 1995 Oct 28;105(14):549–56. **(Spa)**

ETHNOLOGY

Incidence of protozoal diarrheal disease in an expatriate community in Addis Ababa. Brickfield FX, et al. **Ethiop Med J** 1996 Apr;34(2):107–15

ETIOLOGY

Vitamin B12 deficiency and subclinical infection with Giardia lamblia in an adolescent with agammaglobulinemia of Bruton. Springer SC, et al. **J Adolesc Health** 1997 Jan; 20(1):58–61

Giardia. Heresi G, et al. **Pediatr Rev** 1997 Jul;18(7):243–7

IMMUNOLOGY

Giardia duodenalis: analysis of humoral immune response in experimentally infected gerbils (Meriones unguiculatus). Argüello-García R, et al. **Arch Med Res** 1997 Summer; 28(2):171–8

Giardia lamblia infections in B-cell-deficient transgenic mice. Stager S, et al. **Infect Immun** 1997 Sep;65(9):3944–6

Comparison of antibody and cytokine responses to primary Giardia muris infection in H-2 congenic strains of mice. Venkatesan P, et al. **Infect Immun** 1996 Nov;64(11):4525–33

Immunological and histopathological study on splenectomized mice infected with Giardia lamblia. Yassien NA, et al. **J Egypt Soc Parasitol** 1996 Dec;26(3):661–9

A comparison of conventional microscopy, immunofluorescence microscopy and flow cytometry in the detection of Giardia lamblia cysts in beaver fecal samples. Dixon BR, et al. **J Immunol Methods** 1997 Mar 10;202(1):27–33

A comparison of mucosal inflammatory responses to Giardia muris in resistant B10 and susceptible BALB/c mice. Venkatesan P, et al. **Parasite Immunol** 1997 Mar; 19(3):137–43

Delayed-type hypersensitivity skin reaction estimated with Multitest CMI in human giardiasis. Flisiak R, et al. **Rocz Akad Med Bialymst** 1996;41(2):239–44

Allergic constitution and immunological condition of children infected with giardia lamblia. Wasilewska ER, et al. **Rocz Akad Med Bialymst** 1995;40(3):649–54

[Phagocytic activity of blood platelets in patients infected with Giardia intestinalis] Matowicka-Karna J, et al. **Przegl Lek** 1996;53(11):785–7 (Eng. Abstr.) **(Pol)**

PARASITOLOGY

Giardiasis. Farthing MJ. **Gastroenterol Clin North Am** 1996 Sep;25(3):493–515 (155 ref.)

A comparison of conventional microscopy, immunofluorescence microscopy and flow cytometry in the detection of Giardia lamblia cysts in beaver fecal samples. Dixon BR, et al. **J Immunol Methods** 1997 Mar 10;202(1):27–33

Ribosomal RNA sequencing reveals differences between the genotypes of Giardia isolates recovered from humans and dogs living in the same locality. Hopkins RM, et al. **J Parasitol** 1997 Feb;83(1):44–51

The molecular pathogenesis of giardiasis. Farthing MJ. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):79–88 (94 ref.)

Comparison of genetic groups determined by molecular and immunological analyses of Giardia isolated from animals and humans in Switzerland and Australia. Ey PL, et al. **Parasitol Res** 1996;82(1):52–60

[Detection of the parasite Giardia intestinalis during feces examination with immunoenzymatic and microscopic methods] Kołakowska R, et al. **Pol Tyg Lek** 1996 Apr; 51(14–18):210–1 **(Pol)**

PATHOLOGY

Coinfection with Giardia lamblia and Enterocytozoon bieneusi in a patient with acquired immunodeficiency syndrome and chronic diarrhea. Hewan-Lowe K, et al.

Arch Pathol Lab Med 1997 Apr;121(4):417–22
Giardiasis: a histologic analysis of 567 cases. Oberhuber G, et al. **Scand J Gastroenterol** 1997 Jan;32(1):48–51

RADIOGRAPHY

Case in point. Small bowel giardiasis. Ansari A, et al. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):74

TRANSMISSION

Sexual transmission of giardiasis [letter; comment] Higer DA. **Am Fam Physician** 1997 Feb 1;55(2):442, 444. Comment on: Am Fam Physician 1996 Jun;53(8):2507–18.
Protozoal agents: what are the dangers for the public water supply? Steiner TS, et al. **Annu Rev Med** 1997;48:329–40 (50 ref.)
Zoonotic protozoa. Trees AJ. **J Med Microbiol** 1997 Jan; 46(1):20–4, 28–33 (228 ref.)

VETERINARY

First record of Giardia in cattle in Denmark. Iburg T, et al. **Acta Vet Scand** 1996;37(3):337–41
Efficacy of fenbendazole for treatment of giardiasis in calves. O'Handley RM, et al. **Am J Vet Res** 1997 Apr;58(4):384–8
Parasites of feral cats from southern Tasmania and their potential significance. Milstein TC, et al. **Aust Vet J** 1997 Mar;75(3):218–9
The efficacy of a Giardia lamblia vaccine in kittens. Olson ME, et al. **Can J Vet Res** 1996 Oct;60(4):249–56
Giardia. Conboy G. **Can Vet J** 1997 Apr;38(4):245–7 (15 ref.)
Effect of salinomycin on giardiasis and coccidiosis in growing lambs. McAllister TA, et al. **J Anim Sci** 1996 Dec; 74(12):2896–903
Morphological and molecular characterization of Giardia isolated from the straw-necked ibis (Threskiornis spinicollis) in Western Australia. McRoberts KM, et al. **J Parasitol** 1996 Oct;82(5):711–8
The prevalence of shedding of Cryptosporidium and Giardia spp. based on a single fecal sample collection from each of 91 horses used for backcountry recreation. Johnson E, et al. **J Vet Diagn Invest** 1997 Jan;9(1):56–60
Lethal Giardia from a wild-caught sulphur-crested cockatoo (Cacatua galerita) established in vitro chronically infects mice. Upcroft JA, et al. **Parasitology** 1997 May;114 (Pt 5):407–12
A comparison of phase contrast microscopy and an immunofluorescence test for the detection of Giardia spp. in faecal specimens from cattle and wild rodents. Karanis P, et al. **Trans R Soc Trop Med Hyg** 1996 May–Jun; 90(3):250–1
Aspects of animal giardiosis in Granada province (southern Spain). Diaz V, et al. **Vet Parasitol** 1996 Sep 2;64(3):171–6
Giardia and Cryptosporidium in Canadian farm animals. Olson ME, et al. **Vet Parasitol** 1997 Mar;68(4):375–81
Prevalence of Cryptosporidium and Giardia infections in cattle in Aragón (northeastern Spain). Quílez J, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):139–46
Possible contamination of surface waters with Giardia spp. through muskrats. Karanis P, et al. **Zentralbl Bakteriol** 1996 Jul;284(2–3):302–6

GIARDIAVIRUS

GENETICS

Amplification, expression, and packaging of a foreign gene by giardiavirus in Giardia lamblia. Yu DC, et al. **J Virol** 1996 Dec;70(12):8752–7

GIBBERELLA

ENZYMOLOGY

Biosynthesis of [14C]geranylgeranyldiphosphate by a prenyl transferase system from a mutant strain of Gibberella fujikuroi. Knöss W, et al. **Anal Biochem** 1996 Aug 1; 239(2):208–12
The fungus Gibberella fujikuroi produces copper/topaquinone-containing amine oxidase when induced by N-butylamine. Frébort I, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):11–23
3-Hydroxy-3-methylglutaryl-CoA reductase gene of Gibberella fujikuroi: isolation and characterization. Woitek S, et al. **Curr Genet** 1997 Jan;31(1):38–47

GENETICS

The isoprenoid pathway: cloning and characterization of fungal FPPS genes. Homann V, et al. **Curr Genet** 1996 Aug;30(3):232–9
3-Hydroxy-3-methylglutaryl-CoA reductase gene of Gibberella fujikuroi: isolation and characterization. Woitek S, et al. **Curr Genet** 1997 Jan;31(1):38–47
Female fertility and mating type effects on effective population size and evolution in filamentous fungi. Leslie JF, et al. **Genetics** 1996 Oct;144(2):557–67
Restoration of wild-type virulence to Tri5 disruption mutants of Gibberella zeae via gene reversion and mutant complementation. Proctor RH, et al. **Microbiology** 1997 Aug;143 (Pt 8):2583–91
The Gibberella fujikuroi niaD gene encoding nitrate reductase: isolation, sequence, homologous transformation and electrophoretic karyotype location. Tudzynski B, et al. **Microbiology** 1996 Mar;142 (Pt 3):533–9
The geranylgeranyl diphosphate synthase gene of Gibberella fujikuroi: isolation and expression. Mende K, et al. **Mol Gen Genet** 1997 Jun;255(1):96–105
Subtractive hybridization between cDNAs from untreated and AMO-1618-treated cultures of Gibberella fujikuroi. Jennings JC, et al. **Plant Cell Physiol** 1996 Sep;37(6):847–54

METABOLISM

Duckling toxicity and the production of fumonisin and moniliformin by isolates in the A and E mating populations of Gibberella fujikuroi (Fusarium moniliforme). Leslie JF, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1182–7

PATHOGENICITY

Duckling toxicity and the production of fumonisin and moniliformin by isolates in the A and E mating populations of Gibberella fujikuroi (Fusarium moniliforme). Leslie JF, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1182–7
Restoration of wild-type virulence to Tri5 disruption mutants of Gibberella zeae via gene reversion and mutant complementation. Proctor RH, et al. **Microbiology** 1997 Aug;143 (Pt 8):2583–91

GIBBERELLINS

ANTAGONISTS & INHIBITORS

Subtractive hybridization between cDNAs from untreated and AMO-1618-treated cultures of Gibberella fujikuroi. Jennings JC, et al. **Plant Cell Physiol** 1996 Sep;37(6):847–54

BIOSYNTHESIS

Production of gibberellic acid by Aspergillus niger using some food industry wastes. Cihangir N, et al. **Acta Microbiol Pol** 1996;45(3–4):291–7
Ent-kaurene synthase from the fungus Phaeosphaeria sp. L487. cDNA isolation, characterization, and bacterial expression of a bifunctional diterpene cyclase in fungal gibberellin biosynthesis. Kawaide H, et al. **J Biol Chem** 1997 Aug 29;272(35):21706–12
Biosynthesis of gibberellic acid (GA3) and mycotoxins by F. moniliforme sheldon and other species of Liseola section. Latus-Ziętkiewicz D, et al. **Nat Toxins** 1996;4(5):228–33
The LS locus of pea encodes the gibberellin biosynthesis enzyme ent-kaurene synthase A. Ait-Ali T, et al. **Plant J** 1997 Mar;11(3):443–54
Developmental regulation of the gibberellin biosynthetic gene GA1 in Arabidopsis thaliana. Silverstone AL, et al. **Plant J** 1997 Jul;12(1):9–19
Molecular cloning and characterization of a cDNA encoding the gibberellin biosynthetic enzyme ent-kaurene synthase B from pumpkin (Cucurbita maxima L.). Yamaguchi S, et al. **Plant J** 1996 Aug;10(2):203–13

GENETICS

Gibberellin deficiency and response mutations suppress the stem elongation phenotype of phytochrome-deficient mutants of Arabidopsis. Peng J, et al. **Plant Physiol** 1997 Apr;113(4):1051–8
Mendel's dwarfing gene: cDNAs from the Le alleles and function of the expressed proteins. Martin DN, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8907–11

IMMUNOLOGY

Preparation of monoclonal antibodies specific for methyl esters of gibberellins A7 and A4. Zheng Z, et al. **Chin J Biotechnol** 1995;11(4):221–6

METABOLISM

Phase change and the regulation of trichome distribution in Arabidopsis thaliana. Telfer A, et al. **Development** 1997 Feb;124(3):645–54
The new RGA locus encodes a negative regulator of gibberellin response in Arabidopsis thaliana. Silverstone AL, et al. **Genetics** 1997 Jul;146(3):1087–99
cDNA cloning and characterization of a gibberellin-responsive gene in hypocotyls of Cucumis sativus L. Chono M, et al. **Plant Cell Physiol** 1996 Jul; 37(5):686–91
Cloning of a Ca(2+)-ATPase gene and the role of cytosolic Ca2+ in the gibberellin-dependent signaling pathway in aleurone cells. Chen X, et al. **Plant J** 1997 Mar;11(3):363–71
Gibberellin biosynthesis from gibberellin A12-aldehyde in endosperm and embryos of Marah macrocarpus. MacMillan J, et al. **Plant Physiol** 1997 Apr;113(4):1369–77
Phytochrome B affects responsiveness to gibberellins in Arabidopsis. Reed JW, et al. **Plant Physiol** 1996 Sep; 112(1):337–42
SPINDLY, a tetratricopeptide repeat protein involved in gibberellin signal transduction in Arabidopsis. Jacobsen SE, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9292–6
Flowers into shoots: photo and hormonal control of a meristem identity switch in Arabidopsis. Okamuro JK, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13831–6
Cellular differentiation regulated by gibberellin in the Arabidopsis thaliana pickle mutant. Ogas J, et al. **Science** 1997 Jul 4;277(5322):91–4

PHARMACOLOGY

CHRC, encoding a chromoplast-specific carotenoid-associated protein, is an early gibberellic acid-responsive gene. Vishnevetsky M, et al. **J Biol Chem** 1997 Oct 3;272(40):24747–50
Differential expression of a CAK (cdc2-activating kinase)-like protein kinase, cyclins and cdc2 genes from rice during the cell cycle and in response to gibberellin. Sauter M. **Plant J** 1997 Feb;11(2):181–90
The petunia homologue of tomato gast1: transcript accumulation coincides with gibberellin-induced corolla cell elongation. Ben-Nissan G, et al. **Plant Mol Biol** 1996 Dec;32(6):1067–74
Phytohormone-regulated beta-amylase gene expression in rice. Wang SM, et al. **Plant Mol Biol** 1996 Aug;31(5):975–82
Phytochrome B affects responsiveness to gibberellins in Arabidopsis. Reed JW, et al. **Plant Physiol** 1996 Sep; 112(1):337–42
Gibberellins and stem growth in Arabidopsis thaliana. Effects of photoperiod on expression of the GA4 and GA5 loci. Xu YL, et al. **Plant Physiol** 1997 Aug;114(4):1471–6
Flowers into shoots: photo and hormonal control of a meristem identity switch in Arabidopsis. Okamuro JK, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13831–6
Expression of an ortholog of replication protein A1 (RPA1) is induced by gibberellin in deepwater rice. van der Knaap E, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2; 94(18):9979–83
[Effects of sand and hormone treatment on seed germination of Bupleurum chinese DC. and B. falcatum L.] Deng Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr; 21(4):208–10, 255 (Eng. Abstr.) **(Chi)**

GIBBON APE LEUKEMIA VIRUS see **LEUKEMIA VIRUS, GIBBON APE**

GIBBONS see **HYLOBATES**

GIEDION-LANGER SYNDROME see **LANGER-GIEDION SYNDROME**

GIEMSA STAIN see **AZURE STAINS**

GIFT see **GAMETE INTRAFALLOPIAN TRANSFER**

GIFTED CHILD see **CHILD, GIFTED**

GIFTS, FINANCIAL see **FUND RAISING**

GIGANTISM

see related
BECKWITH-WIEDEMANN SYNDROME

Overgrowth. Section VI. Genetic syndromes and other disorders associated with overgrowth. Sotos JF. **Clin Pediatr (Phila)** 1997 Mar;36(3):157–70 (56 ref.)
Overgrowth. Section V. Syndromes and other disorders associated with overgrowth. Sotos JF. **Clin Pediatr (Phila)** 1997 Feb;36(2):89–103 (54 ref.)
[Soto's syndrome (cerebral gigantism)] Jović NS, et al. **Srp Arh Celok Lek** 1996 Jan–Feb;124(1–2):37–40 (Eng. Abstr.) **(Scc)**

COMPLICATIONS

Bilateral slipped capital femoral epiphysis occuring in an adult with acromegalic gigantism. Feydy A, et al. **Skeletal Radiol** 1997 Mar;26(3):188–90
Scoliosis in cerebral gigantism, sotos syndrome. A case report. Haga N, et al. **Spine** 1996 Jul 15;21(14):1699–702

DIAGNOSIS

MR findings of macrodystrophia lipomatosa. Soler R, et al. **Clin Imaging** 1997 Mar–Apr;21(2):135–7
Imaging interpretation session: 1996. Fibrolipomatous hamartoma of the median nerve and macrodystrophia lipomatosa (MDL). **Radiographics** 1997 Jan–Feb; 17(1):258–61

ETIOLOGY

Overgrowth. Hormonal Causes. Sotos JF. **Clin Pediatr (Phila)** 1996 Nov;35(11):579–90 (64 ref.)

GENETICS

Gs alpha mutation at codon 201 in pituitary adenoma causing gigantism in a 6-year-old boy with McCune-Albright syndrome. Dötsch J, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3839–42
Inactivation of the tumor suppressor gene on 11q13 in brothers with familial acrogigantism without multiple endocrine neoplasia type 1. Yamada S, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):239–42

PATHOLOGY

Macrodystrophia lipomatosa of the foot: a report of three cases and literature review. Bailey EJ, et al. **Foot Ankle Int** 1997 Feb;18(2):89–93 (17 ref.)

THERAPY

Recent management of pituitary adenomas. Teramoto A.

GIGANTISM

Nippon Ika Daigaku Zasshi 1996 Aug;63(4):255–8 (8 ref.)

GILBERT'S DISEASE

BLOOD

Plasma sulfobromophthalein disappearance in Gilbert's syndrome. Serra MA, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):210–4

Platelet serotonin (5–HT) content is decreased in patients with alcoholic liver cirrhosis, but elevated in Gilbert's syndrome [letter] Borcsiczky D, et al. **J Hepatol** 1996 Nov; 25(5):781–2

Icteric plasma suggests Gilbert's syndrome in the blood donor. Naiman JL, et al. **Transfusion** 1996 Nov–Dec; 36(11–12):974–8

COMPLICATIONS

Gilbert's syndrome co–existing with and masking hereditary spherocytosis. Sharma S, et al. **Ann Hematol** 1997 Jun; 74(6):287–9

[A case of Gilbert's disease disclosed by early postoperative jaundice (letter)] Sanou J, et al. **Presse Med** 1996 Nov 2; 25(33):1605 **(Fre)**

DIAGNOSIS

Gilbert's syndrome: a possible cause of hyperbilirubinemia after orthotopic liver transplantation. Lachaux A, et al. **Transplant Proc** 1996 Oct;28(5):2846

[Three patients with Gilbert's syndrome associated with constitutional excretory defect of indocyanine green] Suzuki S, et al. **Masui** 1997 Jan;46(1):95–9 (Eng. Abstr.) **(Jpn)**

[Diagnosis of Gilbert's syndrome (editorial)] Caro–Patón A. **An Med Interna** 1997 Feb;14(2):55–6 **(Spa)**

[Diagnosis of Gilbert's syndrome: current status of the fasting test. Review of the literature] Mendoza Hernández JL, et al. **An Med Interna** 1997 Feb;14(2):57–61 (34 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

[Can be treated with isotretinoin patients with acne and Gilbert's syndrome? (letter)] Suárez Crespo JF, et al. **Rev Esp Enferm Dig** 1996 Aug;88(8):584–5 **(Spa)**

ENZYMOLOGY

UDP–glucuronosyltransferase in Gilbert's syndrome. Debinski HS, et al. **Pathology** 1996 Aug;28(3):238–41

ETIOLOGY

Persistent unconjugated hyperbilirubinemia after liver transplantation due to an abnormal bilirubin UDP–glucuronosyltransferase gene promoter sequence in the donor. Jansen PL, et al. **J Hepatol** 1997 Jul;27(1):1–5

GENETICS

Kernicterus in an adult who is heterozygous for Crigler–Najjar syndrome and homozygous for Gilbert–type genetic defect. Chalasani N, et al. **Gastroenterology** 1997 Jun;112(6):2099–103

Gilbert's syndrome. Avasthi R, et al. **J Indian Med Assoc** 1995 Oct;93(10):403

UGT1*1 genotyping in a Canadian Inuit population. Monaghan G, et al. **Pharmacogenetics** 1997 Apr;7(2):153–6

PHYSIOPATHOLOGY

Intestinal excretion of unconjugated bilirubin in man and rats with inherited unconjugated hyperbilirubinemia. Kotal P, et al. **Pediatr Res** 1997 Aug;42(2):195–200

RADIONUCLIDE IMAGING

Discordance of Tc–99m PMT and Tc–99m GSA in constitutional hyperbilirubinemia. Ohtake E, et al. **Clin Nucl Med** 1996 Sep;21(9):744–5

GILLES DE LA TOURETTE'S DISEASE see **TOURETTE SYNDROME**

GILLS

Evolutionary origin of insect wings from ancestral gills. Averof M, et al. **Nature** 1997 Feb 13;385(6617):627–30

[Karyologic study of gill neoplasia in Macoma balthica (Mollusca, Bivalvia)] Thiriot–Quiévreux C, et al. **C R Acad Sci III** 1996 Oct;319(10):887–92 (Eng. Abstr.) **(Fre)**

ANATOMY & HISTOLOGY

The chloride cell: structure and function in the gills of freshwater fishes. Perry SF. **Annu Rev Physiol** 1997; 59:325–47 (99 ref.)

Effects of water pollution on the gill apparatus of fish. Lichtenfels AJ, et al. **J Comp Pathol** 1996 Jul;115(1):47–60

BLOOD SUPPLY

Neurochemical mechanisms behind gill microcirculatory responses to hypoxia in trout: in vivo microscopy study. Sundin L, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R576–85

Efficient fish not faint–hearted [news] Brainerd E. **Nature** 1997 Sep 18;389(6648):229–30

CHEMISTRY

Atrial natriuretic factor (ANF)–like immunoreactivity and secretory granules in internal gills tadpoles of South American toad Bufo arenarum (Hensel). Alonso D, et al. **Eur J Morphol** 1996 Nov;34(4):285–94

Immunolocalisation of angiotensin II receptors in icefish (Chionodraco hamatus) tissues. Marsigliante S, et al. **J Endocrinol** 1997 Aug;154(2):193–200

Heavy metal contamination in freshwater fish from the border region between Norway and Russia. Amundsen PA, et al. **Sci Total Environ** 1997 Aug 18;201(3):211–24

CYTOLOGY

A cell line from the gill tissues of Indian cyprinoid Labeo rohita [letter] Sathe PS, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun;33(6):425–7

Morphology and histochemistry of a PAS–positive granular cell in the gills of the gilthead seabream, Sparus aurata L. Noya M, et al. **J Anat** 1996 Oct;189 (Pt 2):439–43

Response of cell volume in Mytilus gill to acute salinity change. Neufeld DS, et al. **J Exp Biol** 1996 Feb;199 (Pt 2):473–84

Simultaneous recognition of ionocytes and mucous cells in the gill epithelium of turbot and in the rat stomach. Watrin A, et al. **J Exp Zool** 1996 Oct 1;276(2):95–101

Paraneurons in the gills and airways of fishes. Zaccone G, et al. **Microsc Res Tech** 1997 Apr 1;37(1):4–12 (48 ref.)

DRUG EFFECTS

Induction of micronuclei in haemocytes and gill cells of zebra mussels, Dreissena polymorpha, exposed to clastogens. Mersch J, et al. **Mutat Res** 1996 Nov 4;371(1–2):47–55

Detection of micronuclei in gill cells and haemocytes of mussels exposed to benzo[a]pyrene. Venier P, et al. **Mutat Res** 1997 Apr 24;390(1–2):33–44

Effects of chromium(VI) on some ion–dependent ATPases in gills, kidney and intestine of a coastal teleost Periophthalmus dipes. Thaker J, et al. **Toxicology** 1996 Sep 2;112(3):237–44

Effects of microcystin–LR on the partial reactions of the Na(+)–K+ pump of the gill of carp (Cyprinus carpio Linneo). Zambrano F, et al. **Toxicon** 1996 Apr;34(4):451–8

ENZYMOLOGY

Osmoregulatory actions of growth hormone and prolactin in an advanced teleost. Sakamoto T, et al. **Gen Comp Endocrinol** 1997 Apr;106(1):95–101

Immunolocalization of proton–ATPase in the gills of the elasmobranch, Squalus acanthias. Wilson JM, et al. **J Exp Zool** 1997 Jun 1;278(2):78–86

Inhibitory effects of Microcystis aeruginosa toxin on ion pumps of the gill of freshwater fish. Gaete V, et al. **Toxicon** 1994 Jan;32(1):121–7

INNERVATION

Vasoactive intestinal polypeptide immunoreactive nerves in the gill arch of teleost fish, Carassius auratus L. de Girolamo P, et al. **Acta Histochem** 1997 Mar;99(1):13–22

Neurochemical mechanisms behind gill microcirculatory responses to hypoxia in trout: in vivo microscopy study. Sundin L, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R576–85

METABOLISM

Mechanisms of zinc uptake in gills of freshwater rainbow trout: interplay with calcium transport. Hogstrand C, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1141–7

Distribution and characterization of natriuretic peptide receptors in the gills of the spiny dogfish, Squalus acanthias. Donald JA, et al. **Gen Comp Endocrinol** 1997 Jun; 106(3):338–47

Adaptation of rainbow trout to seawater: changes in calcitonin gene–related peptide levels are associated with an increase in hormone–receptor interaction in gill membranes. Najib L, et al. **Gen Comp Endocrinol** 1996 May; 102(2):274–80

Na(+)–dependent Ca2+ uptake in isolated opercular epithelium of Fundulus heteroclitus. Verbost PM, et al. **J Comp Physiol [B]** 1997 Apr;167(3):205–12

Insulin binding sites in gills of the estuarine crab Chasmagnathus granulata. Kucharski LC, et al. **J Exp Zool** 1997 Oct 1;279(2):118–25

Fish gill respiratory cells in culture: a new model for Cl(–)–secreting epithelia. Avella M, et al. **J Membr Biol** 1997 Mar 1;156(1):87–97

Angiotensin II receptors in the gill of sea water– and freshwater–adapted eel. Marsigliante S, et al. **J Mol Endocrinol** 1997 Feb;18(1):67–76

Sphingomyelin metabolism is linked to salt transport in the gills of euryhaline fish. el Babili M, et al. **Lipids** 1996 Apr; 31(4):385–92

Localization of immunoreactive endothelin in the neuroendocrine cells of fish gill. Zaccone G, et al. **Neuropeptides** 1996 Feb;30(1):53–7

MICROBIOLOGY

Bacterial endosymbionts in the gills of the deep–sea wood–boring bivalves Xylophaga atlantica and Xylophaga washingtona. Distel DL, et al. **Biol Bull** 1997 Apr; 192(2):253–61

PARASITOLOGY

Observations on ultrastructure of the anterior adhesive areas and other anterior glands in the monogenean, Monocotyle spiremae (Monocotylidae), from the gills of Himantura fai (Dasyatididae). Cribb BW, et al. **Int J Parasitol** 1997 Aug; 27(8):907–17

Hatching rhythms in the the capsalid monogeneans Benedenia lutjani from the skin and B. rohdei from the gills of Lutjanus carponotatus at Heron Island, Queensland, Australia. Ernst I, et al. **Int J Parasitol** 1996 Nov; 26(11):1191–204

The adhesive attitude of the gill–parasitic ancyrocephaline monogenean Bifurcohaptor indicus. Kearn GC, et al. **Int J Parasitol** 1997 May;27(5):607–9

Myxobolus mississippiensis n. sp. (Myxosporea) from gills of Lepomis macrochirus in Mississippi. Cone DK, et al. **J Parasitol** 1997 Feb;83(1):122–4

Ectoparasites of the whitespotted rabbitfish, Siganus sutor (Valenciennes, 1835) off the Kenyan Coast: distribution within the host population and site selection on the gills. Geets A, et al. **Parasitology** 1997 Jul;115 (Pt 1):69–79

PATHOLOGY

Histopathological changes induced by environmental stress in common carp, Japanese coloured carp, European eel, and African catfish. Szakolczai J. **Acta Vet Hung** 1997; 45(1):1–10

Epitheliocystis infection in cultured white sturgeon (Acipenser transmontanus): antigenic and ultrastructural similarities of the causative agent to the chlamydiae. Groff JM, et al. **J Vet Diagn Invest** 1996 Apr;8(2):172–80

An outbreak of amoebic gill disease in Ireland. Rodger HD, et al. **Vet Rec** 1996 Oct 5;139(14):348–9

PHYSIOLOGY

Chloride channels in primary cultures of seawater fish (Dicentrarchus labrax) gill. Duranton C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C874–82

Plasticity and stressor specificity of osmotic and heat shock responses of Gillichthys mirabilis gill cells. Kültz D. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1181–93

The chloride cell: structure and function in the gills of freshwater fishes. Perry SF. **Annu Rev Physiol** 1997; 59:325–47 (99 ref.)

Transepithelial potential difference of a single gill filament isolated from the crayfish Astacus leptodactylus Esch.: a new method. Barradas C, et al. **Arch Physiol Biochem** 1997 Feb;105(1):38–44

The interaction between O2 and CO2 movements during aerobic exercise in fish. Brauner CJ. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1185–9

Serotonergic vasomotor control in fish gills. Sundin L. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1217–21 (34 ref.)

ULTRASTRUCTURE

Structure of gill epithelium in Triturus vittatus larvae. Warburg MR, et al. **Anat Anz** 1997 Feb;179(1):57–64

Electron microscopic perspectives of gill pathology induced by 1–naphthyl–N–methylcarbamate in the goldfish (Carassius auratus Linnaeus). Pfeiffer CJ, et al. **Histol Histopathol** 1997 Jul;12(3):645–53

GINGER see **SPICES**

GINGIVA

see related
GINGIVECTOMY
GINGIVOPLASTY

Effects of nicotine gum on F waves in non–smokers. Strenge H, et al. **Funct Neurol** 1996 Jul–Aug;11(4):179–85

Starch–gum interactions: nutritional and technological implications. Sudhakar V, et al. **Int J Food Sci Nutr** 1996 Mar;47(2):117–29 (90 ref.)

Single–tooth implants: a procedure to make a precise, flexible gingival contour on the master cast. Coelho AB, et al. **J Prosthet Dent** 1997 Jul;78(1):109–10

[Uvulectomy and blue gingiva tattoo among Ethiopian immigrants in Israel] Menachem S, et al. **Harefuah** 1997 Jan 15;132(2):128–30 (22 ref.) **(Heb)**

ANATOMY & HISTOLOGY

Gum protection. Millette R. **J Can Dent Assoc** 1997 Jun; 63(6):486

Gingival phenotypes in young male adults. Müller HP, et al. **J Clin Periodontol** 1997 Jan;24(1):65–71

Variations in the clinical sulcus depth of healthy human gingiva: a longitudinal study. Smith RG, et al. **J Periodontal Res** 1996 Apr;31(3):181–6

Establishing the gingival emergence profile of restorations by using a resilient gingival replica. Bassiouny MA, et al. **J Prosthet Dent** 1996 Oct;76(4):386–9

BLOOD SUPPLY

Increased human gingival blood flow induced by sodium lauryl sulfate. Herlofson BB, et al. **J Clin Periodontol** 1996 Nov;23(11):1004–7

Maxillary perfusion during Le Fort I osteotomy after ligation of the descending palatine artery. Dodson TB, et al. **J Oral Maxillofac Surg** 1997 Jan;55(1):51–5

The vasculature in chronic adult periodontitis: a qualitative and quantitative study. Bonakdar MP, et al. **J Periodontol** 1997 Jan;68(1):50–8

Measurement of blood flow with radiolabeled microspheres in reflected mucogingival flaps in cats. Wuchenich GT, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):330–4

[A fundamental study on assessment of gingival blood flow] Yamamoto A. **Kokubyo Gakkai Zasshi** 1997 Jun; 64(2):316–25 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Polymerase chain reaction analysis of oestrogen and androgen receptor expression in human gingival and periodontal tissue. Parkar MH, et al. **Arch Oral Biol** 1996 Oct;41(10):979–83

Occurrence of axons with certain immunohistochemical markers in teleost gingiva and teeth. Tuisku F, et al. **Brain Res** 1996 Aug 5;729(1):137–41

Changes in TGF-beta 1 levels in gingiva, crevicular fluid and serum associated with periodontal inflammation in humans and dogs. Skalerič U, et al. **Eur J Oral Sci** 1997 Apr;105(2):136–42

Histomorphological and biochemical differentiation capacity in organotypic co-cultures of primary gingival cells. Tomakidi P, et al. **J Periodontal Res** 1997 May; 32(4):388–400

CYTOLOGY

Chromosomal abnormalities in HPV-16-immortalized oral epithelial cells. Oda D, et al. **Carcinogenesis** 1996 Sep; 17(9):2003–8

Cadherin-mediated adhesion is required for normal growth regulation of human gingival epithelial cells. Kandikonda S, et al. **Cell Adhes Commun** 1996 Jul;4(1):13–24

Restricted expression and function of laminin 1-binding integrins in normal and malignant oral mucosal keratinocytes. Zhang K, et al. **Cell Adhes Commun** 1996 Sep;4(3):159–74

Sensitivity of fibroblasts and their cytoskeletons to substratum topographies: topographic guidance and topographic compensation by micromachined grooves of different dimensions. Oakley C, et al. **Exp Cell Res** 1997 Aug 1; 234(2):413–24

Reconstituted human gingival epithelium: nonsubmerged in vitro model. Delcourt-Huard A, et al. **In Vitro Cell Dev Biol Anim** 1997 Jan;33(1):30–6

The rate of fibrinolysis is increased by free retraction of human gingival fibroblast populated fibrin lattices. Lorimier S, et al. **Int J Biochem Cell Biol** 1997 Jan; 29(1):181–9

Effects of human fibroblasts on invasiveness of oral cancer cells in vitro: isolation of a chemotactic factor from human fibroblasts. Sugiura T, et al. **Int J Cancer** 1996 Dec 11; 68(6):774–81

Fibroblast heterogeneity in the periodontium and other tissues. Phipps RP, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):159–65 (58 ref.)

Antigen-presenting-cell function of interferon gamma-treated human gingival fibroblasts. Shimabukuro Y, et al. **J Periodontal Res** 1996 Apr;31(3):217–28

Histomorphological and biochemical differentiation capacity in organotypic co-cultures of primary gingival cells. Tomakidi P, et al. **J Periodontal Res** 1997 May; 32(4):388–400

Cells with osteoblastic phenotypes can be explanted from human gingiva and periodontal ligament. Carnes DL, et al. **J Periodontol** 1997 Jul;68(7):701–7

Migration of gingival fibroblasts on fibronectin and laminin. Dean JW 3rd, et al. **J Periodontol** 1997 Aug;68(8):750–7

Periodontal pathogen-related stimulation indicates unique phenotype of primary cultured human fibroblasts from gingiva and periodontal ligament: implications for oral health disease. Koka S, et al. **J Prosthet Dent** 1997 Feb; 77(2):191–6

Cytotoxicity of sanguinarine chloride to cultured human cells from oral tissue. Babich H, et al. **Pharmacol Toxicol** 1996 Jun;78(6):397–403

DRUG EFFECTS

Lack of influence of cyclosporin A on levels of gingival procollagen types I and III mRNAs in rats of different ages. Redlich M, et al. **Arch Oral Biol** 1997 Apr; 42(4):277–82

Prostaglandin production via induction of cyclooxygenase-2 by human gingival fibroblasts stimulated with lipopolysaccharides. Noguchi K, et al. **Inflammation** 1996 Oct;20(5):555–68

The effect of interleukin-1 (IL-1) on androgen metabolism in human gingival tissue (HGT) and periodontal ligament (PDL). Kasasa SC, et al. **J Clin Periodontol** 1996 May; 23(5):419–24

Triclosan reduces prostaglandin biosynthesis in human gingival fibroblasts challenged with interleukin-1 in vitro. Modéer T, et al. **J Clin Periodontol** 1996 Oct;23(10):927–33

Site-specific variations in metabolism by human fibroblasts exposed to nifedipine in vitro. Henderson JS, et al. **J Oral Pathol Med** 1997 Jan;26(1):6–10

Inhibition of the migration, attachment, spreading, growth and collagen synthesis of human gingival fibroblasts by arecoline, a major areca alkaloid, in vitro. Jeng JH, et al. **J Oral Pathol Med** 1996 Aug;25(7):371–5

Cyclosporin A upregulates prostaglandin E2 production in human gingival fibroblasts challenged with tumor necrosis factor alpha in vitro. Wondimu B, et al. **J Oral Pathol Med** 1997 Jan;26(1):11–6

Prostaglandin E2 and interleukin-1 concentrations in nicotine-exposed oral keratinocyte cultures. Johnson GK, et al. **J Periodontal Res** 1997 Jul;32(5):447–54

Interleukin-1 beta and phenytoin reduce alpha 1 (I) procollagen mRNA expression in human gingival fibroblasts. Modéer T, et al. **J Periodontal Res** 1996 Nov; 31(8):563–9

Glucose modulates growth of gingival fibroblasts and periodontal ligament cells: correlation with expression of basic fibroblast growth factor. Ohgi S, et al. **J Periodontal Res** 1996 Nov;31(8):579–88

The effect of lipopolysaccharide on growth factor-induced mitogenesis in human gingival fibroblasts. Hill SJ, et al. **J Periodontol** 1996 Dec;67(12):1274–80

A mucosal irritancy test device for intraoral use in dogs. Wirthlin MR, et al. **J Periodontol** 1997 Aug;68(8):746–9

Gingival response to a new multipurpose dental adhesive: a histologic study in dogs. Redlich M, et al. **J Prosthet Dent** 1996 Oct;76(4):379–85

Sodium lauryl sulfate and triclosan: in vitro cytotoxicity studies with gingival cells. Babich H, et al. **Toxicol Lett** 1997 May 16;91(3):189–96

[Effects of gu chi san on cultured human gingival fibroblasts] Fan M, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Sep;30(5):298–300, 320 (Eng. Abstr.) **(Chi)**

[The efficacy of dequalinium chloride/benzalkonium chloride as well as medicinal plants on the gingiva] Gruber I, et al. **Dtsch Zahn Mund Kieferheilkd Zentralbl** 1991;79(1):3–8 (Eng. Abstr.) **(Ger)**

[Dental and oral aspects in pediatric liver transplant patients. A comparison between the effects of cyclosporine A and FK 506] Savoldi E, et al. **Minerva Stomatol** 1997 Mar; 46(3):73–7 (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

A comparison of cysteine and serine proteinases in human gingival crevicular fluid with tissue, saliva and bacterial enzymes by analytical isoelectric focusing. Gazi MI, et al. **Arch Oral Biol** 1996 May;41(5):393–400

Stimulation of plasminogen activator/plasmin system in gingival fibroblast cells by oxygen radicals. Tanaka F, et al. **Arch Oral Biol** 1997 Apr;42(4):263–70

Matrix metalloproteinases-1 and -8 and TIMP-1 mRNA levels in normal and diseased human gingivae. Aiba T, et al. **Eur J Oral Sci** 1996 Oct-Dec;104(5–6):562–9

Cathepsin G in gingival tissue and crevicular fluid in adult periodontitis. Tervahartiala T, et al. **J Clin Periodontol** 1996 Feb;23(2):68–75

In situ hybridization study on tissue inhibitors of metalloproteinases (TIMPs) mRNA-expressing cells in human inflamed gingival tissue. Kubota T, et al. **J Periodontal Res** 1997 Jul;32(5):467–72

Histochemical and immunocytochemical localization of dipeptidyl peptidases II and IV in human gingiva. Kennett CN, et al. **J Periodontol** 1996 Sep;67(9):846–52

Aspartate aminotransferase (AST) levels in human periodontium-derived cells. Mizuho F, et al. **J Periodontol** 1996 Aug;67(8):733–6

Nitric oxide synthase containing nerves in the cat and dog dental pulp and gingiva. Lohinai Z, et al. **Neurosci Lett** 1997 May 16;227(2):91–4

IMMUNOLOGY

Expression of the cutaneous lymphocyte antigen and the alpha IEL beta 7 integrin by intraepithelial lymphocytes in healthy and diseased human gingiva. Tonetti MS, et al. **Arch Oral Biol** 1995 Dec;40(12):1125–32

Localization of proliferating cell nuclear antigen-immunoreactivity in human dental pulp and gingiva. Casasco A, et al. **Bull Group Int Rech Sci Stomatol Odontol** 1996 Jun-Sep; 39(3–4):81–5

IgG and IgA subclass mRNA-bearing plasma cells in periodontitis gingival tissue and immunoglobulin levels in the gingival crevicular fluid. Takahashi K, et al. **Clin Exp Immunol** 1997 Jan;107(1):158–65

Hyporesponsiveness of inflamed human gingival fibroblasts from patients with chronic periodontal diseases against cell surface components of Porphyromonas gingivalis. Ogawa T, et al. **FEMS Immunol Med Microbiol** 1997 May; 18(1):17–30

Variability of inflammatory mediator production by human periodontal fibroblasts stimulated with bacterial lipopolysaccharide [letter] Koka S, et al. **In Vitro Cell Dev Biol Anim** 1996 Oct;32(9):528–30

CD14-mediated signal pathway of Porphyromonas gingivalis lipopolysaccharide in human gingival fibroblasts. Watanabe A, et al. **Infect Immun** 1996 Nov;64(11):4488–94

Prostaglandin E2 potentiates interleukin-1 beta induced interleukin-6 production by human gingival fibroblasts. Czuszak CA, et al. **J Clin Periodontol** 1996 Jul;23(7):635–40

Composition of plaque-associated lesions in the gingiva and the peri-implant mucosa in partially edentulous subjects. Liljenberg B, et al. **J Clin Periodontol** 1997 Feb; 24(2):119–23

CD44-hyaluronate interaction participates in the adherence of T-lymphocytes to gingival fibroblasts. Murakami S, et al. **J Dent Res** 1996 Aug;75(8):1545–52

Immunohistochemical detection of Fas antigen in oral epithelia. Muraki Y, et al. **J Oral Pathol Med** 1997 Feb; 26(2):57–62

Expression of the E-selectin gene in human gingival epithelial tissue. Pietrzak ER, et al. **J Oral Pathol Med** 1996 Jul;25(6):320–4

Immunoregulatory roles of adhesive interactions between lymphocytes and gingival fibroblasts. Murakami S, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):110–4

Antigen-presenting-cell function of interferon gamma-treated human gingival fibroblasts. Shimabukuro Y, et al. **J Periodontal Res** 1996 Apr;31(3):217–28

Molecular factors associated with compartmentalization of gingival immune responses and transepithelial neutrophil migration. Tonetti MS. **J Periodontal Res** 1997 Jan;32(1 Pt 2):104–9 (35 ref.)

Gingival fibroblast cytokine profiles in Actinobacillus actinomycetemcomitans-associated periodontitis. Dongari-Bagtzoglou AI, et al. **J Periodontol** 1996 Sep; 67(9):871–8

CD40 mediated activation of gingival and periodontal ligament fibroblasts. Sempowski GD, et al. **J Periodontol** 1997 Mar;68(3):284–92

In vitro senescence enhances IL-6 production in human gingival fibroblasts induced by lipopolysaccharide from Campylobacter rectus. Ogura N, et al. **Mech Ageing Dev** 1996 May 24;87(1):47–59

Antagonistic effect of synthetic peptides corresponding to the binding regions within fimbrial subunit protein from Porphyromonas gingivalis to human gingival fibroblasts. Ogawa T, et al. **Vaccine** 1997 Feb;15(2):230–6

INJURIES

An unusual case of trauma [letter] Cooke L. **Br Dent J** 1997 Aug 23;183(4):120

Immunolocalization of platelet-derived growth factor A and B chains and PDGF-alpha and beta receptors in human gingival wounds. Green RJ, et al. **J Periodontal Res** 1997 Feb;32(2):209–14

INNERVATION

Combined retrograde tracing and immunohistochemistry of trigeminal ganglion neurons projecting to gingiva or tooth pulps in the lower jaw of the cichlid Tilapia mariae. Tuisku F, et al. **J Neurocytol** 1997 Jan;26(1):33–40

Effects of streptozotocin-induced diabetes on neurogenic inflammation of gingivomucosal tissue in rat. Györfi A, et al. **J Periodontal Res** 1996 May;31(4):249–55

Immunocytochemical study of nerve fibers containing substance P in the junctional epithelium of rats. Tanaka T, et al. **J Periodontal Res** 1996 Apr;31(3):187–94

Immunohistochemical localization of calbindin D28k in the periodontal Ruffini endings of rat incisors. Ochi K, et al. **Neurosci Lett** 1997 Jun 13;228(3):195–8

METABOLISM

Epidermal growth factor in gingival crevicular fluid and its binding capacity in inflamed and non-inflamed human gingiva. Chang KM, et al. **Arch Oral Biol** 1996 Jul; 41(7):719–24

Association of interleukin-1-induced, NF kappa B DNA-binding activity with collagenase gene expression in human gingival fibroblasts. Tewari M, et al. **Arch Oral Biol** 1996 May;41(5):461–8

Histamine H1 receptor-induced Ca2+ mobilization and prostaglandin E2 release in human gingival fibroblasts. Possible role of receptor-operated Ca2+ influx. Niisato N, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1015–23

Variations of the enzymatic activity of the rat's gum glycolytic cycle following administration of sweeteners. Seri S, et al. **Boll Soc Ital Biol Sper** 1995 Sep-Oct; 71(9–10):249–56

Bradykinin regulates the histamine-induced Ca2+ mobilization via protein kinase C activation in human gingival fibroblasts. Niisato N, et al. **Cell Calcium** 1997 May;21(5):345–52

IgG and IgA subclass mRNA-bearing plasma cells in periodontitis gingival tissue and immunoglobulin levels in the gingival crevicular fluid. Takahashi K, et al. **Clin Exp Immunol** 1997 Jan;107(1):158–65

Metabolism of phenytoin by the gingiva of normal humans: the possible role of reactive metabolites of phenytoin in the initiation of gingival hyperplasia. Zhou LX, et al. **Clin Pharmacol Ther** 1996 Aug;60(2):191–8

Prostaglandin production via induction of cyclooxygenase-2 by human gingival fibroblasts stimulated with lipopolysaccharides. Noguchi K, et al. **Inflammation** 1996 Oct;20(5):555–68

The rate of fibrinolysis is increased by free retraction of human gingival fibroblast populated fibrin lattices.

Lorimier S, et al. **Int J Biochem Cell Biol** 1997 Jan; 29(1):181–9

Effects of titanium on transcriptional and post–transcriptional regulation of fibronectin in human fibroblasts. Chou L, et al. **J Biomed Mater Res** 1996 Jun;31(2):209–17

Human granulation–tissue fibroblasts show enhanced proteoglycan gene expression and altered response to TGF–beta 1. Häkkinen L, et al. **J Dent Res** 1996 Oct; 75(10):1767–78

Effect of methyl mercaptan on synthesis and degradation of collagen. Johnson P, et al. **J Periodontal Res** 1996 Jul; 31(5):323–9

Interleukin–1 alpha produced in human gingival fibroblasts induces several activities related to the progression of periodontitis by direct contact. Okamatsu Y, et al. **J Periodontal Res** 1996 Jul;31(5):355–64

Detection and possible biological role of chondroitinase and heparitinase enzymes produced by Porphyromonas gingivalis W50. Smith AJ, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 1):1–8

Cytokine production by cells adherent to regenerative membranes. Wakabayashi RC, et al. **J Periodontal Res** 1997 Feb;32(2):215–24

Plasminogen activator activity is decreased in rat gingiva during diabetes. Chang K, et al. **J Periodontol** 1996 Aug; 67(8):743–47

Contribution of IL–1 beta to the enhancement of Campylobacter rectus lipopolysaccharide–stimulated PGE2 production in old gingival fibroblasts in vitro. Takiguchi H, et al. **Mech Ageing Dev** 1997 Oct;98(1):75–90

MICROBIOLOGY

Involvement of calcium in interactions between gingival epithelial cells and Porphyromonas gingivalis. Izutsu KT, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2–3):145–50

Role of fimbriae in Porphyromonas gingivalis invasion of gingival epithelial cells. Weinberg A, et al. **Infect Immun** 1997 Jan;65(1):313–6

Concordance of Porphyromonas gingivalis colonization in families. Tuite–McDonnell M, et al. **J Clin Microbiol** 1997 Feb;35(2):455–61

The effect of cyclosporin–A on the oral microflora at gingival sulcus of the ferret. Fischer RG, et al. **J Clin Periodontol** 1996 Sep;23(9):853–60

The effect of supragingival plaque control on the subgingival microflora in human periodontitis. Hellström MK, et al. **J Clin Periodontol** 1996 Oct;23(10):934–40

Strong cytotoxicity to human gingival fibroblasts by Porphyromonas gingivalis ATCC 33277. Johansson A, et al. **J Periodontal Res** 1996 Oct;31(7):477–82

Subgingival microbiota in adult Chinese: prevalence and relation to periodontal disease progression. Papapanou PN, et al. **J Periodontol** 1997 Jul;68(7):651–66

PATHOLOGY

Extramedullary acute promyelocytic leukemia [see comments] Wiernik PH, et al. **Cancer** 1996 Dec 15; 78(12):2510–4 (33 ref.). Comment in: Cancer 1997 Jun 1;79(11):2263–4. Comment in: Cancer 1997 Aug 1;80(3):518–9.

Relevance of local Th2–type cytokine mRNA expression in immunocompetent infiltrates in inflamed gingival tissue to periodontal diseases. Tokoro Y, et al. **Clin Exp Immunol** 1997 Jan;107(1):166–74

Isolation of alkaline phosphatase–positive gingival fibroblasts from patients with chronic inflammatory periodontal disease. Abe T, et al. **J Periodontal Res** 1996 May; 31(4):285–93

Granulocytic sarcoma in acute promyelocytic leukemia [letter; comment] Benekli M, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):183–6 (19 ref.). Comment on: Leuk Lymphoma 1994 Aug;14(5–6):453–6.

[Effects of sexual hormone anticoncipiens on periodontal tissue] Tu N, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Nov; 30(6):349–51 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

Lymph and interstitial fluid dynamics in labial gingival tissues of sheep. Au B, et al. **J Periodontal Res** 1996 Nov; 31(8):570–8

Biologic width around titanium implants. A histometric analysis of the implanto–gingival junction around unloaded and loaded nonsubmerged implants in the canine mandible. Cochran DL, et al. **J Periodontol** 1997 Feb;68(2):186–98

The effect of lipopolysaccharide on growth factor–induced mitogenesis in human gingival fibroblasts. Hill SJ, et al. **J Periodontol** 1996 Dec;67(12):1274–80

In vitro study of gingival fibroblasts from normal and inflamed tissue: age–related responsiveness. Solmi R, et al. **Mech Ageing Dev** 1996 Nov 29;92(1):31–41

PHYSIOPATHOLOGY

[The correlation between an increase in subgingival temperature and the concentration of volatile fatty acids of bacterial origin present in periodontal pockets] Eftimiadi C, et al. **Minerva Stomatol** 1996 May;45(5):189–96 (Eng. Abstr.) **(Ita)**

RADIATION EFFECTS

Response of associated oral soft tissues when exposed to Argon laser during polymerization of dental resins. Brenneise CV, et al. **Lasers Surg Med** 1997;20(4):467–72

SURGERY

Flap designs for minimization of recession adjacent to maxillary anterior implant sites: a clinical study. Becker W, et al. **Int J Oral Maxillofac Implants** 1996 Jan–Feb; 11(1):46–54

The lancet and the gum–lancet: 400 years of teething babies. Dally A. **Lancet** 1996 Dec 21–28;348(9043):1710–1

TRANSPLANTATION

Soft tissue management for primary closure in guided bone regeneration: surgical technique and case report. Novaes AB Jr, et al. **Int J Oral Maxillofac Implants** 1997 Jan–Feb; 12(1):84–7

Subpedicle connective tissue graft versus free gingival graft in the coverage of exposed root surfaces. A 5–year clinical study. Paolantonio M, et al. **J Clin Periodontol** 1997 Jan; 24(1):51–6

Increased gingival dimensions. A significant factor for successful outcome of root coverage procedures? A 2–year prospective clinical study. Wennström JL, et al. **J Clin Periodontol** 1996 Aug;23(8):770–7

Report of a gingival "surgical cyst" developing secondarily to a subepithelial connective tissue graft. Breault LG, et al. **J Periodontol** 1997 Apr;68(4):392–5

A comparative study of root coverage obtained with guided tissue regeneration utilizing a bioabsorbable membrane versus the connective tissue with partial–thickness double pedicle graft. Harris RJ. **J Periodontol** 1997 Aug; 68(8):779–90

Exostosis associated with autogenous gingival grafts: a report of 9 cases. Otero–Cagide FJ, et al. **J Periodontol** 1996 Jun; 67(6):611–6

Guided tissue regeneration versus mucogingival surgery in the treatment of human buccal recessions. A 4–year follow–up study. Pini Prato G, et al. **J Periodontol** 1996 Nov;67(11):1216–23

The free rotated papilla autograft: a new bilaminar grafting procedure for the coverage of multiple shallow gingival recessions. Tinti C, et al. **J Periodontol** 1996 Oct; 67(10):1016–24

ULTRASONOGRAPHY

Ultrasonic determination of gingival thickness. Subject variation and influence of tooth type and clinical features. Eger T, et al. **J Clin Periodontol** 1996 Sep;23(9):839–45

ULTRASTRUCTURE

Ultrastructural characterization of internal basement membrane of junctional epithelium at dentogingival border. Sawada T, et al. **Anat Rec** 1996 Nov;246(3):317–24

GAPO syndrome: first Egyptian case with ultrastructural changes in the gingiva. Meguid NA, et al. **Clin Genet** 1997 Aug;52(2):110–5

[The epithelium of the periodontal pocket--an electron microscopy analysis] Danilović V, et al. **Med Pregl** 1997 Mar–Apr;50(3–4):77–80 (Eng. Abstr.) **(Scr)**

VIROLOGY

Chromosomal abnormalities in HPV–16–immortalized oral epithelial cells. Oda D, et al. **Carcinogenesis** 1996 Sep; 17(9):2003–8

GINGIVAL BLEEDING ON PROBING see **PERIODONTAL INDEX**

GINGIVAL CREVICULAR FLUID

Quadratic calibration curves for the Periotron 6000. Preshaw PM, et al. **J Periodontal Res** 1996 Aug;31(6):441–3

Concentrations of tinidazole in gingival crevicular fluid and plasma in dogs after multiple dose administration. Sarkiala–Kessel EM, et al. **J Vet Pharmacol Ther** 1996 Jun; 19(3):171–5

CHEMISTRY

Prostaglandin E2 level in gingival crevicular fluid from patients with Down syndrome. Barr–Agholme M, et al. **Acta Odontol Scand** 1997 Apr;55(2):101–5

Enhanced chemiluminescent assay for measuring the total antioxidant capacity of serum, saliva and crevicular fluid. Chapple IL, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):412–21

Low molecular–weight proteins in human gingival crevicular fluid. Estreicher A, et al. **Arch Oral Biol** 1996 Aug–Sep; 41(8–9):733–8

Increase of transforming growth factor–beta 1 in gingival crevicular fluid during human orthodontic tooth movement. Uematsu S, et al. **Arch Oral Biol** 1996 Nov; 41(11):1091–5

Disaccharide analysis of chondroitin sulfate in peri–implant sulcus fluid from dental implants. Okazaki J, et al. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 1)):141–3

Changes in TGF–beta 1 levels in gingiva, crevicular fluid and serum associated with periodontal inflammation in humans and dogs. Skalerič U, et al. **Eur J Oral Sci** 1997 Apr;105(2):136–42

Detection and measurement of inflammatory cytokines in implant crevicular fluid: a pilot study. Panagakos FS, et al. **Int J Oral Maxillofac Implants** 1996 Nov–Dec; 11(6):794–9

Automated gas chromatographic assay for amlodipine in plasma and gingival crevicular fluid. Monkman SC, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):360–4

Interleukin–8 and beta–glucuronidase in gingival crevicular fluid. Chung RM, et al. **J Clin Periodontol** 1997 Mar; 24(3):146–52

Methodological considerations in GCF sampling with paper strips: poor recovery of uncomplexed elastase. Gustafsson A. **J Clin Periodontol** 1996 May;23(5):432–6

Effects of treatment on gingival crevicular collagenase, stromelysin and tissue inhibitor of metalloproteinases and their ability to predict response to treatment. Haerian A, et al. **J Clin Periodontol** 1996 Feb;23(2):83–91

The effect of tetracycline fiber therapy on beta–glucuronidase and interleukin–1 beta in crevicular fluid. Lamster IB, et al. **J Clin Periodontol** 1996 Sep;23(9):816–22

Human gingival crevicular fluid keratin at healthy, chronic gingivitis and chronic adult periodontitis sites. McLaughlin WS, et al. **J Clin Periodontol** 1996 Apr;23(4):331–5

A longitudinal study of various crevicular fluid components as markers of periodontal disease activity. Nakashima K, et al. **J Clin Periodontol** 1996 Sep;23(9):832–8

The relationship of gingival crevicular fluid short chain carboxylic acid concentration to gingival inflammation. Niederman R, et al. **J Clin Periodontol** 1996 Aug; 23(8):743–9

Short–chain carboxylic acid concentration in human gingival crevicular fluid. Niederman R, et al. **J Dent Res** 1997 Jan; 76(1):575–9

Aggravation of gingival inflammatory symptoms during pregnancy associated with the concentration of plasminogen activator inhibitor type 2 (PAI–2) in gingival fluid. Kinnby B, et al. **J Periodontal Res** 1996 May; 31(4):271–7

Relationship of sulphated glycosaminoglycans in human gingival crevicular fluid with active periodontal disease. Waddington RJ, et al. **J Periodontal Res** 1996 Apr; 31(3):168–70

Inflammatory and immune mediators in crevicular fluid from HIV–infected injecting drug users. Grbic JT, et al. **J Periodontol** 1997 Mar;68(3):249–55

Evaluation of ketorolac concentrations in plasma and gingival crevicular fluid following topical treatment with oral rinses and dentifrices. Kelm GR, et al. **J Pharm Sci** 1996 Aug; 85(8):842–7

CYTOLOGY

Detection of intracellular p24–positive macrophages in gingival crevicular fluid from periodontal lesions of stage IV AIDS patients [letter] Suzuki T, et al. **AIDS** 1996 Jun; 10(7):804–5

Investigations into the cellular contribution to host tissue proteases and inhibitors in gingival crevicular fluid. Kennett CN, et al. **J Clin Periodontol** 1997 Jun;24(6):424–31

ENZYMOLOGY

A comparison of cysteine and serine proteinases in human gingival crevicular fluid with tissue, saliva and bacterial enzymes by analytical isoelectric focusing. Gazi MI, et al. **Arch Oral Biol** 1996 May;41(5):393–400

Cathepsin B in gingival crevicular fluid of adult periodontitis patients: identification by immunological and enzymological methods. Ichimaru E, et al. **Inflamm Res** 1996 Jun;45(6):277–82

Risk indicators for periodontal disease in a racially diverse urban population. Alpagot T, et al. **J Clin Periodontol** 1996 Nov;23(11):982–8

Chemiluminescent assay of alkaline phosphatase in human gingival crevicular fluid: investigations with an experimental gingivitis model and studies on the source of the enzyme within crevicular fluid. Chapple IL, et al. **J Clin Periodontol** 1996 Jun;23(6):587–94

A 2–year longitudinal study of elastase in human gingival crevicular fluid and periodontal attachment loss. Eley BM, et al. **J Clin Periodontol** 1996 Jul;23(7):681–92

Adjunctive controlled topical application of tetracycline HCl in the treatment of localized persistent or recurrent periodontitis. Effects on clinical parameters and elastase–alpha1–proteinase inhibitor in gingival crevicular fluid. Flemmig TF, et al. **J Clin Periodontol** 1996 Oct; 23(10):914–21

Matrix metalloproteinases and their inhibitors in gingival crevicular fluid and saliva of periodontitis patients. Ingman T, et al. **J Clin Periodontol** 1996 Dec;23(12):1127–32

Cathepsin G in gingival tissue and crevicular fluid in adult periodontitis. Tervahartiala T, et al. **J Clin Periodontol** 1996 Feb;23(2):68–75

Human neutrophil collagenase MMP–8 in peri–implant sulcus fluid and its inhibition by clodronate. Teronen O, et al. **J Dent Res** 1997 Sep;76(9):1529–37

The relationship between gingival crevicular fluid cathepsin B activity and periodontal attachment loss in chronic periodontitis patients: a 2–year longitudinal study. Eley BM, et al. **J Periodontal Res** 1996 Aug;31(6):381–92

alpha 1–Proteinase inhibitor in gingival crevicular fluid of

humans with adult periodontitis: serpinolytic inhibition by doxycycline. Lee HM, et al. **J Periodontal Res** 1997 Jan; 32(1 Pt 1):9–19

Correlation between gingivain/gingipain and bacterial dipeptidyl peptidase activity in gingival crevicular fluid and periodontal attachment loss in chronic periodontitis patients. A 2-year longitudinal study. Eley BM, et al. **J Periodontol** 1996 Jul;67(7):703–16

Characterization of matrix metalloproteinase (MMP-8 and -9) activities in the saliva and in gingival crevicular fluid of children with Down's syndrome. Halinen S, et al. **J Periodontol** 1996 Aug;67(8):748–54

A multi-center clinical trial of a new chairside test in distinguishing between diseased and healthy periodontal sites. II. Association between site type and test outcome before and after therapy. Magnusson I, et al. **J Periodontol** 1996 Jun;67(6):589–96

Active and alpha-1 proteinase inhibitor complexed leukocyte elastase levels in crevicular fluid from patients with periodontal diseases. Meyer J, et al. **J Periodontol** 1997 Mar;68(3):256–61

The effect of subgingival antimicrobial therapy on the levels of stromelysin and tissue inhibitor of metalloproteinases in gingival crevicular fluid. Pourtaghi N, et al. **J Periodontol** 1996 Sep;67(9):866–70

Reflections on the development of a host-response diagnostic test for periodontal disease. Lamster IB, et al. **Technol Health Care** 1996 Sep;4(3):331–8

[Low-dose doxycycline therapy: effect on crevicular fluid collagenase elastase and beta-glucuronidase activity in humans] Sha Y, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Sep; 30(5):289–91 **(Chi)**

[Alkaline phosphatase levels in gingival crevicular fluid of periodontitis before and after periodontal treatment] Yan F, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):204–6, 255–6 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Permeability of the gingival tissues to IgM during an experimental gingivitis study in man. Griffiths GS, et al. **Arch Oral Biol** 1997 Feb;42(2):129–36

Characterization of complement receptor type 1 and type 3 mRNA expression on polymorphonuclear leucocytes (neutrophils) in gingival crevicular fluid from periodontitis-affected patients. Sugita N, et al. **Arch Oral Biol** 1997 Feb;42(2):113–20

IgG and IgA subclass mRNA-bearing plasma cells in periodontitis gingival tissue and immunoglobulin levels in the gingival crevicular fluid. Takahashi K, et al. **Clin Exp Immunol** 1997 Jan;107(1):158–65

Expression of the alpha-subunit of CR4 (CD11c) by peripheral blood and crevicular fluid neutrophils. Mouynet P, et al. **Eur J Oral Sci** 1995 Dec;103(6):413–5

Interleukin-1 receptor antagonist and interleukin-4 in gingival crevicular fluid of patients with inflammatory periodontal disease. Kabashima H, et al. **J Oral Pathol Med** 1996 Sep;25(8):449–55

Interleukin-1 alpha, interleukin-8 and interferon-alpha levels in gingival crevicular fluid. Mathur A, et al. **J Periodontal Res** 1996 Oct;31(7):489–95

Loss of Fc gamma receptor and impaired phagocytosis of polymorphonuclear leukocytes in gingival crevicular fluid. Miyazaki A, et al. **J Periodontal Res** 1997 Jul;32(5):439–46

Interleukin-1 beta, prostaglandin E2, and immunoglobulin G subclasses in gingival crevicular fluid in patients undergoing periodontal therapy. Alexander DC, et al. **J Periodontol** 1996 Aug;67(8):755–62

My secret life (in the gingival crevice). Rossomando EF. **Technol Health Care** 1996 Sep;4(3):359–63

Human T-lymphotropic virus type I (HTLV-I)-specific antibodies and cell-free RNA in crevicular fluid-rich saliva from patients with tropical spastic paraparesis/HTLV-I-associated myelopathy. Soto-Ramirez LE, et al. **Viral Immunol** 1995;8(3):141–50

METABOLISM

Implication of PAF and acetylhydrolase (PAF-AH) activity in periodontal disease. Baltas G, et al. **Adv Exp Med Biol** 1996;416:135–41

Adsorption/desorption of amine fluorides to hydroxyapatite. Sefton J, et al. **Biomaterials** 1996 Jan;17(1):37–46

Levels of Porphyromonas gingivalis Fimbriae and inflammatory cytokines in gingival crevicular fluid from adult human subjects. Hirose K, et al. **Microbiol Immunol** 1997;41(1):21–6

[Iron in oral cavity fluid in gingival inflammation] Petrovich IuA, et al. **Patol Fiziol Eksp Ter** 1996 Jul-Sep;(3):22–4 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Levels of Porphyromonas gingivalis Fimbriae and inflammatory cytokines in gingival crevicular fluid from adult human subjects. Hirose K, et al. **Microbiol Immunol** 1997;41(1):21–6

PHYSIOLOGY

Serendipity or luck: stumbling on gingival crevicular fluid. Krasse B. **J Dent Res** 1996 Sep;75(9):1627–30 (32 ref.)

VIROLOGY

Search for infectious HIV in gingival crevicular fluid and saliva of advanced AIDS patients with severe periodontitis [letter] Chebbi F, et al. **AIDS** 1997 Jun;11(7):927–8

Detection of intracellular p24-positive macrophages in gingival crevicular fluid from periodontal lesions of stage IV AIDS patients [letter] Suzuki T, et al. **AIDS** 1996 Jun; 10(7):804–5

Characterization of HIV-related periodontitis in AIDS patients: HIV-infected macrophage exudate in gingival crevicular fluid as a hallmark of distinctive etiology. Suzuki T, et al. **Clin Exp Immunol** 1997 May;108(2):254–9

GINGIVAL CURETTAGE see **SUBGINGIVAL CURETTAGE**

GINGIVAL DISEASES

COMPLICATIONS

Recurrent peripheral giant cell granuloma associated with cervical resorption. Nedir R, et al. **J Periodontol** 1997 Apr; 68(4):381–4

CONGENITAL

[Benign gingival granular cell tumor in the newborn: congenital epulis] Gómez Tellado M, et al. **An Esp Pediatr** 1996 Nov;45(5):519–21 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Determinants of self-assessed gingival health among adolescents. Kallio P, et al. **Acta Odontol Scand** 1997 Apr; 55(2):106–10

[Oral tuberculosis: apropos of a case] Buonomo S, et al. **Acta Stomatol Belg** 1996 Mar;93(1):33–6 (Eng. Abstr.) **(Fre)**

[Image of the month. Epulis and diapneusia] Piérard GE. **Rev Med Liege** 1996 Nov;51(11):677 **(Fre)**

ETIOLOGY

Involvement of lips and gums in a borderline tuberculoid leprosy patient. Mishra B, et al. **Indian J Lepr** 1996 Oct-Dec;68(4):367–70

Report of a gingival "surgical cyst" developing secondarily to a subepithelial connective tissue graft. Breault LG, et al. **J Periodontol** 1997 Apr;68(4):392–5

Langerhans' cell histiocytosis: report of three cases with unusual oral soft tissue involvement. Cleveland DB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):541–8

[Multiple myeloma with oral manifestations—report of two cases] Huang JS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jun; 13(6):388–94 (Eng. Abstr.) **(Chi)**

[A case of pulmonary tuberculosis complicated with gingival lesions] Kobayashi T, et al. **Kekkaku** 1997 Jun;72(6):411–4 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Immunohistochemical detection of Fas antigen in oral epithelia. Muraki Y, et al. **J Oral Pathol Med** 1997 Feb; 26(2):57–62

METABOLISM

RT-PCR investigation of fibronectin mRNA isoforms in malignant, normal and reactive oral mucosa. Mighell AJ, et al. **Oral Oncol** 1997 May;33(3):155–62

MICROBIOLOGY

Short-chain carboxylic-acid-stimulated, PMN-mediated gingival inflammation. Niederman R, et al. **Crit Rev Oral Biol Med** 1997;8(3):269–90 (144 ref.)

Early surgical management of invasive gingival aspergillosis in a neutropenic patient with leukemia: a case report. Myoken Y, et al. **Int J Oral Maxillofac Surg** 1997 Feb; 26(1):51–3

Localised oral histoplasmosis lesions associated with HIV infection. Warnakulasuriya KA, et al. **J Oral Pathol Med** 1997 Jul;26(6):294–6

Cigarette smoking increases the risk for subgingival infection with periodontal pathogens. Zambon JJ, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1050–4

PATHOLOGY

Gingival cyst of the adult: a review and a report of eight cases. Bell RC, et al. **J Can Dent Assoc** 1997 Jul-Aug; 63(7):533–5 (7 ref.)

The oral hygiene and gingival health of paraplegic inpatients—a cross-sectional survey. Lancashire P, et al. **J Clin Periodontol** 1997 Mar;24(3):198–200

Immunolocalisation of tenascin-C in focal reactive overgrowths of oral mucosa. Mighell AJ, et al. **J Oral Pathol Med** 1996 Apr;25(4):163–9

Dynamic distribution of basic fibroblast growth factor during epulis formation: an immunohistochemical study in an enhanced healing process of the gingiva. Murata M, et al. **J Oral Pathol Med** 1997 May;26(5):224–32

Growth potential of peripheral giant cell granuloma. Bodner L, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):548–51

PHYSIOPATHOLOGY

Short-chain carboxylic-acid-stimulated, PMN-mediated gingival inflammation. Niederman R, et al. **Crit Rev Oral Biol Med** 1997;8(3):269–90 (144 ref.)

PREVENTION & CONTROL

The effectiveness of an amine fluoride/stannous fluoride dentifrice on the gingival health of teenagers: results after six months. Sgan-Cohen HD, et al. **Int Dent J** 1996 Aug; 46(4):340–5

Comparison of modes of oral hygiene instruction in improving gingival health. Lim LP, et al. **J Clin Periodontol** 1996 Jul;23(7):693–7

An evaluation of a dentifrice containing salivary peroxidase elements for the control of gingival disease in patients with irradiated head and neck cancer. Toljanic JA, et al. **J Prosthet Dent** 1996 Sep;76(3):292–6

VETERINARY

Analysis of prognostic factors and patterns of failure in dogs with periodontal tumors treated with megavoltage irradiation. Théon AP, et al. **J Am Vet Med Assoc** 1997 Mar 15;210(6):785–8

Epulides in the dog: a review. Gardner DG. **J Oral Pathol Med** 1996 Jan;25(1):32–7 (16 ref.)

GINGIVAL EXUDATE see **GINGIVAL CREVICULAR FLUID**

GINGIVAL FIBROMATOSIS see **FIBROMATOSIS, GINGIVAL**

GINGIVAL FISTULA see **DENTAL FISTULA**

GINGIVAL HEMORRHAGE

DIAGNOSIS

Suitability of gingival indices for use in therapeutic trials. Is bleeding a sine qua non? Barnett ML. **J Clin Periodontol** 1996 Jun;23(6):582–6 (38 ref.)

Indices to measure gingival bleeding. Newbrun E. **J Periodontol** 1996 Jun;67(6):555–61 (65 ref.)

Severe bleeding from a pregnancy tumor. A case report. Wang PH, et al. **J Reprod Med** 1997 Jun;42(6):359–62

DRUG THERAPY

Treatment of hemorrhagic periodontitis using neopredin. Botushanov P, et al. **Folia Med (Plovdiv)** 1997;39(1):59–64

PREVENTION & CONTROL

Comparison of various modalities of "simple" periodontal therapy on oral cleanliness and bleeding. Lim LP, et al. **J Clin Periodontol** 1996 Jun;23(6):595–600

Compliance with supportive periodontal therapy and its relation to the bleeding index. Novaes Júnior AB, et al. **J Periodontol** 1996 Oct;67(10):976–80

THERAPY

Periodontal management of Glanzmann's thrombasthenia: report of 3 cases. Kantarci A, et al. **J Periodontol** 1996 Aug;67(8):816–20

GINGIVAL HYPERPLASIA

CHEMICALLY INDUCED

Gingival enlargement induced by drugs. Brunet L, et al. **Drug Saf** 1996 Sep;15(3):219–31 (152 ref.)

The distribution of gingival overgrowth in organ transplant patients. Thomason JM, et al. **J Clin Periodontol** 1996 Apr; 23(4):367–71

Induction of superoxide dismutase isozymes by tumor necrosis factor-alpha and lipopolysaccharide in cultured normal and hyperplastic gingival fibroblasts. Liu TZ, et al. **J Formos Med Assoc** 1996 Mar;95(3):236–40

Rapid resolution of gingival hyperplasia after switching from cyclosporine A to tacrolimus [letter] Dodd DA. **J Heart Lung Transplant** 1997 May;16(5):579

Plasma and saliva concentrations of phenytoin and 5-(4-hydroxyphenyl)-5-phenylhydantoin in relation to the incidence and severity of phenytoin-induced gingival overgrowth in epileptic patients. Ball DE, et al. **J Periodontol** 1996 Jun;67(6):597–602

The effect of verapamil on the prevalence and severity of cyclosporine-induced gingival overgrowth in renal allograft recipients. Cebeci I, et al. **J Periodontol** 1996 Nov; 67(11):1201–5

Phenytoin and cyclosporine A specifically regulate macrophage phenotype and expression of platelet-derived growth factor and interleukin-1 in vitro and in vivo: possible molecular mechanism of drug-induced gingival hyperplasia. Iacopino AM, et al. **J Periodontol** 1997 Jan; 68(1):73–83

Prevalence of amlodipine-related gingival hyperplasia. Jorgensen MG. **J Periodontol** 1997 Jul;68(7):676–8

GINGIVAL HYPERPLASIA

Positive correlation between blood cyclosporin A level and severity of gingival overgrowth in rats. Morisaki I, et al. **J Periodontol** 1997 Jan;68(1):7–11

Regression of nifedipine-induced gingival hyperplasia following switch to a same class calcium channel blocker, isradipine. Westbrook P, et al. **J Periodontol** 1997 Jul; 68(7):645–50

Alternative protocol [letter; comment] Frieman J. **N Y State Dent J** 1996 Dec;62(10):13. Comment on: N Y State Dent J 1996 Aug–Sep;62(7):34–7.

Gingival hyperplasia: interaction between cyclosporin A and nifedipine? A case report. Jackson C, et al. **N Y State Dent J** 1997 Jan;63(1):46–8

Gingival hyperplasia: a new side effect associated with trimethoprim–sulfamethoxazole (TML–SMX) treatment in pulmonary nocardiosis [letter] Caron F, et al. **Therapie** 1997 Jan–Feb;52(1):73–4

Treatment of gingival hyperplasia secondary to cyclosporine by the new macrolide azithromycin. Puig JM, et al. **Transplant Proc** 1997 Aug;29(5):2379–80

[Gingival hyperplasia as a side-effect of drug therapy] Machtei EE, et al. **Harefuah** 1996 Dec 1;131(11):519–23 **(Heb)**

[Gingival hyperplasia associated with amlodipine] Infante Cossío P, et al. **An Med Interna** 1997 Feb;14(2):83–5 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Amyloidaceous ulcerated gingival hyperplasia: a newly described entity related to ligneous conjunctivitis. Gokbuget AY, et al. **J Oral Pathol Med** 1997 Feb; 26(2):100–4

CONGENITAL

Gingival hyperplasia in congenital and infantile nephrotic syndrome [letter] Mattoo TK. **Pediatr Nephrol** 1997 Jun; 11(3):388

DIAGNOSIS

Severe bleeding from a pregnancy tumor. A case report. Wang PH, et al. **J Reprod Med** 1997 Jun;42(6):359–62

DRUG THERAPY

Treatment of gingival hyperplasia secondary to cyclosporine by the new macrolide azithromycin. Puig JM, et al. **Transplant Proc** 1997 Aug;29(5):2379–80

ETIOLOGY

Gingival enlargement as a diagnostic indicator in leukaemia. Case report. Anil S, et al. **Aust Dent J** 1996 Aug;41(4):235–7

The effect of plaque retention on cyclosporine-induced gingival overgrowth in rats. Fu E, et al. **J Periodontol** 1997 Jan;68(1):92–8

[Nicardipine-induced gingival hyperplasia] Pascual-Castroviejo I, et al. **Neurologia** 1997 Jan;12(1):37–9 (Eng. Abstr.) **(Spa)**

METABOLISM

Phenytoin and cyclosporine A specifically regulate macrophage phenotype and expression of platelet-derived growth factor and interleukin-1 in vitro and in vivo: possible molecular mechanism of drug-induced gingival hyperplasia. Iacopino AM, et al. **J Periodontol** 1997 Jan; 68(1):73–83

PATHOLOGY

The distribution of gingival overgrowth in organ transplant patients. Thomason JM, et al. **J Clin Periodontol** 1996 Apr; 23(4):367–71

Immunohistochemical localization of transforming growth factor beta, basic fibroblast growth factor and heparan sulphate glycosaminoglycan in gingival hyperplasia induced by nifedipine and phenytoin. Saito K, et al. **J Periodontal Res** 1996 Nov;31(8):545–55

Odontodysplasia, gingival manifestations, and accompanying abnormalities. Fanibunda KB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):84–8

Gingival hyperplasia in congenital and infantile nephrotic syndrome [letter] Mattoo TK. **Pediatr Nephrol** 1997 Jun; 11(3):388

SURGERY

Surgical treatment of nifedipine-induced gingival hyperplasia. A case report [see comments] Abitbol TE, et al. **N Y State Dent J** 1996 Aug–Sep;62(7):34–7 (24 ref.). Comment in: N Y State Dent J 1996 Dec;62(10):13.

GINGIVAL HYPERTROPHY

CHEMICALLY INDUCED

Treatment of cyclosporine-induced gingival hypertrophy [letter] Cecchin E, et al. **Ann Intern Med** 1997 Mar 1; 126(5):409–10

[Gingival hypertrophy due to cyclosporine. A clinico-statistical study in 82 patients] Vescovi P, et al. **Minerva Stomatol** 1997 Apr;46(4):155–64 (Eng. Abstr.) **(Ita)**

[Gingival hypertrophy due to cyclosporine. A review of the literature] Vescovi P, et al. **Minerva Stomatol** 1996 Nov; 45(11):523–32 (46 ref.) (Eng. Abstr.) **(Ita)**

[Cyclosporine-induced hypertrophic gingivitis] Petrikas AZh, et al. **Stomatologiia (Mosk)** 1996;75(4):12–3 (12 ref.) **(Rus)**

DRUG THERAPY

Treatment of cyclosporine-induced gingival hypertrophy [letter] Cecchin E, et al. **Ann Intern Med** 1997 Mar 1; 126(5):409–10

GINGIVAL INDEX see **PERIODONTAL INDEX**

GINGIVAL NEOPLASMS

COMPLICATIONS

Tumor-induced osteomalacia associated with lesions in the oral and maxillofacial region: report of two cases. Kim YG, et al. **J Oral Maxillofac Surg** 1996 Nov;54(11):1352–7

Histomorphometric analysis of osteoclastic resorption in bone directly invaded by gingival squamous cell carcinoma. Semba I, et al. **J Oral Pathol Med** 1996 Sep;25(8):429–35

CONGENITAL

Congenital epulis. Koch BL, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):739–41

Obstructive congenital epulis of the newborn [letter] Aköz T, et al. **Plast Reconstr Surg** 1997 Mar;99(3):922–3

[Congenital granular-cell epulis. A histochemical case study] Volpe F, et al. **Minerva Stomatol** 1997 May;46(5):267–71 (11 ref.) (Eng. Abstr.) **(Ita)**

ETIOLOGY

Significant mercury deposits in internal organs following the removal of dental amalgam, & development of pre-cancer on the gingiva and the sides of the tongue and their represented organs as a result of inadvertent exposure to strong curing light (used to solidify synthetic dental filling material) & effective treatment: a clinical case report, along with organ representation areas for each tooth. Omura Y, et al. **Acupunct Electrother Res** 1996 Apr–Jun;21(2):133–60

Gingival squamous cell carcinoma in a patient with chronic graft-versus-host disease. Otsubo H, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):171–4

MORTALITY

Prognostic factors affecting outcome in lower gingival carcinoma. Overholt SM, et al. **Laryngoscope** 1996 Nov; 106(11):1335–9

PATHOLOGY

Adenomatoid odontogenic tumour: an unusual cause of gingival swelling in a 3-year-old patient. Kearns GJ, et al. **Br Dent J** 1996 Nov 23;181(10):380–2 (24 ref.)

Peripheral ameloblastoma: report of a case with malignant aspect. Califano L, et al. **Br J Oral Maxillofac Surg** 1996 Jun;34(3):240–2

Granular-cell tumours: an immunohistochemical study. Junquera LM, et al. **Br J Oral Maxillofac Surg** 1997 Jun; 35(3):180–4

Desmoplastic malignant melanoma of the gingiva: case report and review of the literature. Ueta E, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):423–7 (13 ref.)

Gingival compound odontoma. Ledesma-Montes C, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):296–7

Clinical and histopathologic characteristics of tongue and gingiva carcinomas with occult and clinically evident cervical lymph-node metastasis. Osaki T, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):274–8

Unusual presentation of carcinoma of the mandibular gingiva: report of a case. Urade M, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):1007–10

Squamous cell carcinoma of the gingiva with an atypical appearance. Wallace ML, et al. **J Periodontol** 1996 Nov; 67(11):1245–8

Some current concepts on the pathology of ameloblastomas. Gardner DG. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):660–9 (34 ref.)

Extraosseous calcifying epithelial odontogenic tumor: report of two cases and review of the literature. Houston GD, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):577–83 (30 ref.)

Birt-Hogg-Dubé syndrome: a review and presentation of the first case with oral lesions. Nadershahi NA, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Apr;83(4):496–500 (19 ref.)

Gingival granular cell myoblastoma in newborns. Report of two cases. Rabczyński J, et al. **Pol J Pathol** 1997; 48(2):131–3

RADIOTHERAPY

Postirradiation laryngeal osteosarcoma: case report and literature review. Sheen TS, et al. **Head Neck** 1997 Jan; 19(1):57–62 (36 ref.)

SECONDARY

Gingival metastasis of merkel cell carcinoma: a case report. Schmidt-Westhausen A, et al. **J Oral Pathol Med** 1996 Jan;25(1):44–7

Hepatocellular carcinomas diagnosed following metastasis to the oral cavity. Report of 2 cases. Llanes F, et al. **J Periodontol** 1996 Jul;67(7):717–9 (7 ref.)

Basaloid squamous cell carcinoma of the esophagus metastatic to the gingiva: a case report. Ide F, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):584–7 (22 ref.)

SURGERY

Unusual complications at iliac crest bone graft donor site: experience with two cases. Porchet F, et al. **Neurosurgery** 1996 Oct;39(4):856–9

VETERINARY

Gingival vascular hamartoma with associated paraneoplastic hyperglycemia in a kitten. Padgett SL, et al. **J Am Vet Med Assoc** 1997 Apr 1;210(7):914–5

GINGIVAL OVERGROWTH

CHEMICALLY INDUCED

Nifedipine-induced gingival overgrowth. Johnson RB. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):935

Possible roles of medullasin in nifedipine-induced human gingival overgrowth. Kunimatsu K, et al. **Arch Oral Biol** 1996 Jan;41(1):111–5

Phenobarbital-induced gingival overgrowth? Report of two cases and complications in management. Gregoriou AP, et al. **ASDC J Dent Child** 1996 Nov–Dec;63(6):408–13

Evaluation of gingival and periodontal conditions following causal periodontal treatment in patients treated with nifedipine and diltiazem. Bullon P, et al. **J Clin Periodontol** 1996 Jul;23(7):649–57

Vigabatrin-induced gingival overgrowth. Katz J, et al. **J Clin Periodontol** 1997 Mar;24(3):180–2

Cyclosporin-A-induced gingival overgrowth in heart transplant patients. A cross-sectional study. Montebugnoli L, et al. **J Clin Periodontol** 1996 Sep;23(9):868–72

Histopathologic alterations of periodontium in cyclosporin-treated rats. Is the periodontium a target tissue for the drug? Nieh S, et al. **J Clin Periodontol** 1996 Aug; 23(8):730–6

Determinants of gingival overgrowth severity in organ transplant patients. An examination of the rôle of HLA phenotype. Thomason JM, et al. **J Clin Periodontol** 1996 Jul;23(7):628–34

Site-specific variations in metabolism by human fibroblasts exposed to nifedipine in vitro. Henderson JS, et al. **J Oral Pathol Med** 1997 Jan;26(1):6–10

Cyclosporin- and nifedipine-induced gingival overgrowth in renal transplant patients: correlations with periodontal and pharmacological parameters, and HLA-antigens. Margiotta V, et al. **J Oral Pathol Med** 1996 Mar; 25(3):128–34

Comparative effects of cyclosporin on glycosaminoglycan synthesis by gingival fibroblasts. Newell J, et al. **J Periodontol** 1997 May;68(5):443–7

Factors affecting cyclosporine-induced gingival overgrowth in pediatric renal transplant recipients. Karpinia KA, et al. **Pediatr Dent** 1996 Nov–Dec;18(7):450–5

Renal function in cyclosporine-treated pediatric renal transplant recipients in relation to gingival overgrowth. Wondimu B, et al. **Transplantation** 1997 Jul 15;64(1):92–6

IMMUNOLOGY

Evaluation of the frequency of HLA determinants in patients with gingival overgrowth induced by cyclosporine-A. Cebeci I, et al. **J Clin Periodontol** 1996 Aug;23(8):737–42

Determinants of gingival overgrowth severity in organ transplant patients. An examination of the rôle of HLA phenotype. Thomason JM, et al. **J Clin Periodontol** 1996 Jul;23(7):628–34

PATHOLOGY

Histochemical and immunohistochemical localisation of elastic system fibres in focal reactive overgrowths of oral mucosa. Mighell AJ, et al. **J Oral Pathol Med** 1997 Apr; 26(4):153–8

Myofibroblasts in phenytoin-induced hyperplastic connective tissue in the rat and in human gingival overgrowth. Dill RE, et al. **J Periodontol** 1997 Apr; 68(4):375–80

PREVENTION & CONTROL

Effectiveness of periodontal treatments on cyclosporine-induced gingival overgrowth in transplant patients. Somacarrera ML, et al. **Br Dent J** 1997 Aug 9; 183(3):89–94

SURGERY

Combined treatment approach to gingival overgrowth due to drug therapy. Darbar UR, et al. **J Clin Periodontol** 1996 Oct;23(10):941–4

Treatment of gingival Crohn's disease with laser therapy.

Giller JP, et al. **N Y State Dent J** 1997 May;63(5):32–5

GINGIVAL POCKET

see related
PERIODONTAL POCKET

MICROBIOLOGY

Dark field microscopy of the subgingival microflora in insulin-dependent diabetics. Seppää B, et al.
J Clin Periodontol 1996 Feb;23(2):63–7

PATHOLOGY

Root planing following short-term pocket distention. Shen EC, et al. **J Periodontol** 1997 Jul;68(7):632–5

GINGIVAL RECESSION

CHEMICALLY INDUCED

Cocaine-associated rapid gingival recession and dental erosion. A case report. Kapila YL, et al. **J Periodontol** 1997 May;68(5):485–8

DRUG THERAPY

Clinical evaluation of tetracycline HCl conditioning in the treatment of gingival recessions. A comparative study. Bouchard P, et al. **J Periodontol** 1997 Mar;68(3):262–9

PHYSIOPATHOLOGY

Gingival recession. Reappraisal of an enigmatic condition and a new index for monitoring. Smith RG.
J Clin Periodontol 1997 Mar;24(3):201–5 (39 ref.)

PREVENTION & CONTROL

Flap designs for minimization of recession adjacent to maxillary anterior implant sites: a clinical study. Becker W, et al. **Int J Oral Maxillofac Implants** 1996 Jan–Feb; 11(1):46–54

SURGERY

Subpedicle connective tissue graft versus free gingival graft in the coverage of exposed root surfaces. A 5-year clinical study. Paolantonio M, et al. **J Clin Periodontol** 1997 Jan; 24(1):51–6

Healing response of gingival recession defects following guided tissue regeneration procedures in smokers and non-smokers. Trombelli L, et al. **J Clin Periodontol** 1997 Aug;24(8):529–33

Fibrin glue application in conjunction with tetracycline root conditioning and coronally positioned flap procedure in the treatment of human gingival recession defects. Trombelli L, et al. **J Clin Periodontol** 1996 Sep;23(9):861–7

Increased gingival dimensions. A significant factor for successful outcome of root coverage procedures? A 2-year prospective clinical study. Wennström JL, et al.
J Clin Periodontol 1996 Aug;23(8):770–7

A comparative study of root coverage obtained with guided tissue regeneration utilizing a bioabsorbable membrane versus the connective tissue with partial-thickness double pedicle graft. Harris RJ. **J Periodontol** 1997 Aug; 68(8):779–90

Guided tissue regeneration versus mucogingival surgery in the treatment of human buccal recessions. A 4-year follow-up study. Pini Prato G, et al. **J Periodontol** 1996 Nov;67(11):1216–23

The use of a resorbable membrane in mucogingival surgery. Case series. Rachlin G, et al. **J Periodontol** 1996 Jun; 67(6):621–6

Development and clinical evaluation of a root coverage procedure using a collagen barrier membrane. Shieh AT, et al. **J Periodontol** 1997 Aug;68(8):770–8

The free rotated papilla autograft: a new bilaminar grafting procedure for the coverage of multiple shallow gingival recessions. Tinti C, et al. **J Periodontol** 1996 Oct; 67(10):1016–24

Reconstruction of anterior papillae by interdental connective tissue grafts: a clinical report. Ben-Yehouda A.
J Prosthet Dent 1997 Feb;77(2):111–3

[The treatment of local gingival recession by using Kolapol] Barer GM, et al. **Stomatologiia (Mosk)** 1996;75(5):28–30 (Eng. Abstr.) **(Rus)**

THERAPY

Alternative method of conservative esthetic treatment for gingival recession. Zalkind M, et al. **J Prosthet Dent** 1997 Jun;77(6):561–3

GINGIVECTOMY

Anaesthetic management of a pregnant, post liver transplant patient for dental surgery. Avraamides EJ, et al.
Anaesth Intensive Care 1997 Feb;25(1):68–70

ADVERSE EFFECTS

Aspirin-induced post-gingivectomy haemorrhage: a timely reminder. Thomason JM, et al. **J Clin Periodontol** 1997 Feb;24(2):136–8

GINGIVITIS

see related
PERICORONITIS

CHEMICALLY INDUCED

Purpuric patch test reaction and venulitis due to methyl methacrylate in a dental prosthesis. Koch P, et al.
Contact Dermatitis 1996 Mar;34(3):213–15

[Cyclosporine-induced hypertrophic gingivitis] Petrikas AZh, et al. **Stomatologiia (Mosk)** 1996;75(4):12–3 (12 ref.) **(Rus)**

COMPLICATIONS

Infective endocarditis: some popular tenets debunked? Eykyn SJ. **Heart** 1997 Mar;77(3):191–3

Correlation between mucosal inflammation and marginal bone loss around hydroxyapatite-coated implants: a 3-year cross-sectional study. Teixeira ER, et al.
Int J Oral Maxillofac Implants 1997 Jan–Feb;12(1):74–81

DIAGNOSIS

The achievement and maintenance of inter-examiner consistency in the assessment of plaque and gingivitis during a multicentre study based in general dental practices. Eaton KA, et al. **J Clin Periodontol** 1997 Mar;24(3):183–8

Human gingival crevicular fluid keratin at healthy, chronic gingivitis and chronic adult periodontitis sites. McLaughlin WS, et al. **J Clin Periodontol** 1996 Apr;23(4):331–5

Indices to measure gingival bleeding. Newbrun E.
J Periodontol 1996 Jun;67(6):555–61 (65 ref.)

DRUG THERAPY

Efficacy of a dentifrice and oral rinse containing sanguinaria extract in conjunction with initial periodontal therapy. Cullinan MP, et al. **Aust Dent J** 1997 Feb;42(1):47–51

A double blind clinical study on the effectiveness of a chlorhexidine containing lozenge (Septofort) in the treatment of chronic gingivitis. Gera I, et al. **Fogorv Sz** 1997 Apr;90 Spec No:38–47 (30 ref.)

A short-term study of the effects of SBHAN, a novel compound, on gingival inflammation in the beagle dog. Cutler CW, et al. **J Periodontol** 1997 May;68(5):448–55

Concentrations of tinidazole in gingival crevicular fluid and plasma in dogs after multiple dose administration. Sarkiala-Kessel EM, et al. **J Vet Pharmacol Ther** 1996 Jun; 19(3):171–5

[Subgingival irrigation: a heresy?] Bouclin R, et al.
J Can Dent Assoc 1996 Apr;62(4):358–62 (52 ref.) (Eng. Abstr.) **(Fre)**

[Plaque and gingivitis reduction by an amine fluoride/stannous fluoride combination] Schulz E, et al. **Dtsch Zahn Mund Kieferheilkd Zentralbl** 1991;79(1):9–13 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Matrix metalloproteinases-1 and -8 and TIMP-1 mRNA levels in normal and diseased human gingivae. Aiba T, et al. **Eur J Oral Sci** 1996 Oct-Dec;104(5–6):562–9

Chemiluminescent assay of alkaline phosphatase in human gingival crevicular fluid: investigations with an experimental gingivitis model and studies on the source of the enzyme within crevicular fluid. Chapple IL, et al.
J Clin Periodontol 1996 Jun;23(6):587–94

In situ hybridization study on tissue inhibitors of metalloproteinases (TIMPs) mRNA-expressing cells in human inflamed gingival tissue. Kubota T, et al.
J Periodontal Res 1997 Jul;32(5):467–72

Immunohistochemical study of cathepsin G and medullasin in inflamed gingival tissues from periodontal patients. Kunimatsu K, et al. **J Periodontal Res** 1997 Feb; 32(2):264–70

Histochemical and immunocytochemical localization of dipeptidyl peptidases II and IV in human gingiva. Kennett CN, et al. **J Periodontol** 1996 Sep;67(9):846–52

[Alkaline phosphatase levels in gingival crevicular fluid of periodontitis before and after periodontal treatment] Yan F, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):204–6, 255–6 (Eng. Abstr.) **(Chi)**

[Activity of glutamate dehydrogenase, gamma-glutamyltranspeptidase and creatine kinase in saliva in gingivitis] Petrovich IuA, et al.
Patol Fiziol Eksp Ter 1996 Oct-Dec;(4):28–30 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Prevalence of gingivitis in 6-year-olds in Reykjavik, Iceland. Arnlaugsson S, et al. **Acta Odontol Scand** 1996 Aug; 54(4):247–50

Gingival state and dental calculus in early-onset periodontitis. Albandar JM, et al. **J Periodontol** 1996 Oct; 67(10):953–9

ETIOLOGY

The effect of chronic carbamazepine, valproic acid and phenytoin medication on the periodontal condition of epileptic children and adolescents. Galas-Zgorzalewicz B, et al. **Funct Neurol** 1996 Jul-Aug;11(4):187–93

The onset of diabetes and poor metabolic control increases gingival bleeding in children and adolescents with insulin-dependent diabetes mellitus. Karjalainen KM, et al.
J Clin Periodontol 1996 Dec;23(12):1060–7

Foreign body gingivitis: identification of the foreign material by energy-dispersive x-ray microanalysis. Gordon SC, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):571–6

Foreign body gingivitis: clinical and microscopic features of 61 cases. Gordon SC, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 May;83(5):562–70

[The significance of endocrine factors and microorganisms in the development of gingivitis in pregnant women] Abraham-Inpijn L, et al. **Stomatologiia (Mosk)** 1996; 75(3):15–8 (53 ref.) (Eng. Abstr.) **(Rus)**

[The role of risk factors in the development of a hemoendothelial imbalance in periodontal diseases] Kankanian AP. **Stomatologiia (Mosk)** 1996;75(2):21–5 (Eng. Abstr.) **(Rus)**

[The role of locally acting factors in the development of gingivitis in young people] Solov'eva AM, et al.
Stomatologiia (Mosk) 1996;Spec No:78 **(Rus)**

IMMUNOLOGY

Expression of the cutaneous lymphocyte antigen and the alpha IEL beta 7 integrin by intraepithelial lymphocytes in healthy and diseased human gingiva. Tonetti MS, et al.
Arch Oral Biol 1995 Dec;40(12):1125–32

Hyporesponsiveness of inflamed human gingival fibroblasts from patients with chronic periodontal diseases against cell surface components of Porphyromonas gingivalis. Ogawa T, et al. **FEMS Immunol Med Microbiol** 1997 May; 18(1):17–30

IL-1 beta mRNA as the predominant inflammatory cytokine transcript: correlation with inflammatory cell infiltration into human gingiva. Tokoro Y, et al.
J Oral Pathol Med 1996 May;25(5):225–31

Increased expression of interleukin-1 receptors on fibroblasts derived from inflamed gingiva. Kanda-Nakamura C, et al.
J Periodontol 1996 Dec;67(12):1267–73

[Immunoglobulin A levels in the saliva in patients with periodontal disease] Bokor M. **Med Pregl** 1997 Jan–Feb; 50(1–2):9–11 (Eng. Abstr.) **(Scr)**

METABOLISM

Epidermal growth factor in gingival crevicular fluid and its binding capacity in inflamed and non-inflamed human gingiva. Chang KM, et al. **Arch Oral Biol** 1996 Jul; 41(7):719–24

Low molecular-weight proteins in human gingival crevicular fluid. Estreicher A, et al. **Arch Oral Biol** 1996 Aug-Sep; 41(8–9):733–8

5 alpha reductase activity in human gingiva and gingival fibroblasts in response to bacterial culture supernatants, using [14C]4-androstenedione as substrate. Soory M, et al.
Arch Oral Biol 1997 Apr;42(4):255–62

The effect of interleukin-1 (IL-1) on androgen metabolism in human gingival tissue (HGT) and periodontal ligament (PDL). Kasasa SC, et al. **J Clin Periodontol** 1996 May; 23(5):419–24

The relationship of gingival crevicular fluid short chain carboxylic acid concentration to gingival inflammation. Niederman R, et al. **J Clin Periodontol** 1996 Aug; 23(8):743–9

The synthesis of 5-alpha-dihydrotestosterone from androgens by human gingival tissues and fibroblasts in culture in response to TGF-beta and PDGF. Kasasa SC, et al. **J Periodontal Res** 1996 Jul;31(5):313–22

Levels of cytokines and collagen type I and type III as a function of age in human gingivitis. Yakovlev E, et al.
J Periodontol 1996 Aug;67(8):788–93

[Iron in oral cavity fluid in gingival inflammation] Petrovich IuA, et al. **Patol Fiziol Eksp Ter** 1996 Jul-Sep;(3):22–4 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

5 alpha reductase activity in human gingiva and gingival fibroblasts in response to bacterial culture supernatants, using [14C]4-androstenedione as substrate. Soory M, et al.
Arch Oral Biol 1997 Apr;42(4):255–62

Characterization of monoclonal antibodies for rapid identification of Actinomyces naeslundii in clinical samples. Thurnheer T, et al. **FEMS Microbiol Lett** 1997 May 15; 150(2):255–62

The relationship of gingival crevicular fluid short chain carboxylic acid concentration to gingival inflammation. Niederman R, et al. **J Clin Periodontol** 1996 Aug; 23(8):743–9

Antimicrobial susceptibility tests on anaerobic oral mixed cultures in periodontal diseases. Pacini N, et al.
J Clin Periodontol 1997 Jun;24(6):401–9

The experimental gingivitis studies: the microbiological perspective. Theilade E. **J Dent Res** 1996 Jul;75(7):1434–8 (46 ref.)

Clinical, microbiological and immunological profile of healthy, gingivitis and putative active periodontal subjects. Tanner A, et al. **J Periodontal Res** 1996 Apr;31(3):195–204

Occurrence of Porphyromonas gingivalis, Bacteroides forsythus, and Treponema denticola in periodontally healthy and diseased subjects as determined by an ELISA technique. Di Murro C, et al. **J Periodontol** 1997 Jan;

68(1):18–23
A correlation study of inflammatory cell mobilization in response to subgingival microbial colonization. Leknes KN, et al. **J Periodontol** 1997 Jan;68(1):67–72
The relationship between gingivitis and the serum antibodies to the microbiota associated with periodontal disease in children with Down's syndrome. Morinushi T, et al. **J Periodontol** 1997 Jul;68(7):626–31
Effect of orthodontic therapy with fixed and removable appliances on oral microbiota: a six-month longitudinal study. Petti S, et al. **New Microbiol** 1997 Jan;20(1):55–62
Gingivitis, facial weakness and focal seizures. Lee PY, et al. **Postgrad Med J** 1997 Jun;73(860):327–8

PATHOLOGY

Inflamed human periodontal versus peri-implant gingival tissues: an immunohistochemical differentiation of the extracellular matrix. Romanos GE, et al. **Int J Oral Maxillofac Implants** 1996 Sep–Oct;11(5):605–11
Effects of cyclosporine A on plasma cells in experimental gingivitis in dogs. Berglundh T, et al. **J Clin Periodontol** 1996 Jun;23(6):507–11
Effects of nonopsonized Escherichia coli on myeloperoxidase activity in medium used for incubation of leukocytes from patients with gingivitis and periodontitis. Zekonis J, et al. **J Nihon Univ Sch Dent** 1997 Mar;39(1):12–6
Effects of streptozotocin-induced diabetes on neurogenic inflammation of gingivomucosal tissue in rat. Györfi A, et al. **J Periodontal Res** 1996 May;31(4):249–55
Foreign body gingivitis: clinical and microscopic features of 61 cases. Gordon SC, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):562–70
The oral manifestations of intestinal lymphangiectasia: case report. Ralph PM, et al. **Pediatr Dent** 1996 Nov–Dec; 18(7):461–4

PHYSIOPATHOLOGY

Permeability of the gingival tissues to IgM during an experimental gingivitis study in man. Griffiths GS, et al. **Arch Oral Biol** 1997 Feb;42(2):129–36
Short-chain carboxylic-acid-stimulated, PMN-mediated gingival inflammation. Niederman R, et al. **Crit Rev Oral Biol Med** 1997;8(3):269–90 (144 ref.)
The effect of age on the development of gingivitis. Clinical, microbiological and histological findings. Fransson C, et al. **J Clin Periodontol** 1996 Apr;23(4):379–85
Aggravation of gingival inflammatory symptoms during pregnancy associated with the concentration of plasminogen activator inhibitor type 2 (PAI-2) in gingival fluid. Kinnby B, et al. **J Periodontal Res** 1996 May; 31(4):271–7

PREVENTION & CONTROL

Clinical effects of chlorhexidine mouthwashes on patients undergoing orthodontic treatment. Anderson GB, et al. **Am J Orthod Dentofacial Orthop** 1997 Jun;111(6):606–12
Effect of electric toothbrushes versus manual toothbrushes on removal of plaque and periodontal status during orthodontic treatment. Trimpeneers LM, et al. **Am J Orthod Dentofacial Orthop** 1997 May;111(5):492–7
Assessment of the effect of an oscillating/rotating electric toothbrush on oral health. A 12-month longitudinal study. Ainamo J, et al. **J Clin Periodontol** 1997 Jan;24(1):28–33
A 3-month home use study comparing the oral hygiene and gingival health benefits of triclosan and conventional fluoride toothpastes. Binney A, et al. **J Clin Periodontol** 1996 Nov;23(11):1020–4
The effects of a 0.12% chlorhexidine-digluconate-containing mouthrinse versus a placebo on plaque and gingival inflammation over a 3-month period. A multicentre study carried out in general dental practices. Eaton KA, et al. **J Clin Periodontol** 1997 Mar;24(3):189–97
Some effects of mouthrinses containing salifluor on de novo plaque formation and developing gingivitis. Furuichi Y, et al. **J Clin Periodontol** 1996 Aug;23(8):795–802
Transient effect of a short-term educational programme without prophylaxis on control of plaque and gingival inflammation in school children. Ivanovic M, et al. **J Clin Periodontol** 1996 Aug;23(8):750–7
Comparative study of plaque and gingivitis prevention by AmF/SnF2 and NaF. A clinical and microbiological 9-month study. Mengel R, et al. **J Clin Periodontol** 1996 Apr;23(4):372–8
Inhibition of experimental gingivitis in beagle dogs with topical salivary histatins. Paquette DW, et al. **J Clin Periodontol** 1997 Apr;24(4):216–22
The effect of mouthrinses containing zinc and triclosan on plaque accumulation, development of gingivitis and formation of calculus in a 28-week clinical test. Schaeken MJ, et al. **J Clin Periodontol** 1996 May;23(5):465–70
A clinical comparison of 2 electric toothbrush designs. Shibly O, et al. **J Clin Periodontol** 1997 Apr;24(4):260–3
Comparison of a sonic and a manual toothbrush for efficacy in supragingival plaque removal and reduction of gingivitis. Tritten CB, et al. **J Clin Periodontol** 1996 Jul;23(7):641–8
Effect of delmopinol hydrochloride mouthrinse on plaque formation and gingivitis in "rapid" and "slow" plaque formers. Zee K, et al. **J Clin Periodontol** 1997 Jul; 24(7):486–91
Efficacy of a 2-phase oil: water mouthrinse in controlling oral malodor, gingivitis, and plaque. Kozlovsky A, et al. **J Periodontol** 1996 Jun;67(6):577–82
Plaque and gingivitis in spinal paralysed individuals [letter] Lancashire P, et al. **Spinal Cord** 1996 Aug;34(8):498–9
[Treatment of gingivitis in elderly patients in a nursing home] Yoneyama T, et al. **Nippon Ronen Igakkai Zasshi** 1997 Feb; 34(2):120–4 (Eng. Abstr.) **(Jpn)**
[The use of dental elixirs based on natural biologically active substances in the treatment and prevention of periodontal diseases] Drozhzhina VA, et al. **Stomatologiia (Mosk)** 1996; Spec No:52–3 **(Rus)**

PSYCHOLOGY

Emotional stress effects on immunity, gingivitis and periodontitis. Breivik T, et al. **Eur J Oral Sci** 1996 Aug; 104(4 (Pt 1)):327–34 (74 ref.)

THERAPY

Suitability of gingival indices for use in therapeutic trials. Is bleeding a sine qua non? Barnett ML. **J Clin Periodontol** 1996 Jun;23(6):582–6 (38 ref.)
Periodontal management of Glanzmann's thrombasthenia: report of 3 cases. Kantarci A, et al. **J Periodontol** 1996 Aug;67(8):816–20

VETERINARY

Effect of two dietary regimens on gingivitis in the dog. Rawlings JM, et al. **J Small Anim Pract** 1997 Apr; 38(4):147–51

VIROLOGY

Detection of intracellular p24-positive macrophages in gingival crevicular fluid from periodontal lesions of stage IV AIDS patients [letter] Suzuki T, et al. **AIDS** 1996 Jun; 10(7):804–5

GINGIVITIS, NECROTIZING ULCERATIVE

DIAGNOSIS

A Behçet-like disease presenting as ulcerative stomatitis and scarring pustular lesions of the face. Shelley WB, et al. **Cutis** 1997 Feb;59(2):74–6
[Necrotizing mucosal ulcers cause by anaerobic bacteria. Fusiform bacterial and spirochete infections] Hollandt JH, et al. **HNO** 1996 Dec;44(12):694–8 (Eng. Abstr.) **(Ger)**
[The clinico-laboratory characteristics and diagnosis of acute stomatogenic sepsis] El'kova NL, et al. **Stomatologiia (Mosk)** 1996;75(2):37–9 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Chronic ulcerative gingivo-stomatitis due to Corynebacterium ulcerance [letter] Fule RP, et al. **Natl Med J India** 1996 Jan–Feb;9(1):50
[Microbiocenosis study in chronic diseases of the oral mucosa] Khazanova VV, et al. **Stomatologiia (Mosk)** 1996; 75(2):26–7 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Chronic ulcerative stomatitis. Wörle B, et al. **Br J Dermatol** 1997 Aug;137(2):262–5
Traumatic eosinophilic ulcer of the oral mucosa: a misdiagnosed entity. Labandeira J, et al. **Cutis** 1996 May; 57(5):349–51

GINGIVOPLASTY

The use of gingivoperiosteoplasty in CUCLP [letter] Berkowitz S. **Cleft Palate Craniofac J** 1997 Jul;34(4):363–4
Late stage soft tissue modification for anatomically correct implant-supported restorations. Davidoff SR. **J Prosthet Dent** 1996 Sep;76(3):334–8

ADVERSE EFFECTS

Exostosis associated with autogenous gingival grafts: a report of 9 cases. Otero-Cagide FJ, et al. **J Periodontol** 1996 Jun; 67(6):611–6

METHODS

Gingivoperiosteoplasty and midfacial growth. Wood RJ, et al. **Cleft Palate Craniofac J** 1997 Jan;34(1):17–20
A comparison of various methods of soft tissue management following the immediate placement of implants into extraction sockets. Rosenquist B. **Int J Oral Maxillofac Implants** 1997 Jan–Feb;12(1):43–51 (9 ref.)
Subpedicle connective tissue graft versus free gingival graft in the coverage of exposed root surfaces. A 5-year clinical study. Paolantonio M, et al. **J Clin Periodontol** 1997 Jan; 24(1):51–6
Increased gingival dimensions. A significant factor for successful outcome of root coverage procedures? A 2-year prospective clinical study. Wennström JL, et al. **J Clin Periodontol** 1996 Aug;23(8):770–7
Reconstruction of anterior papillae by interdental connective tissue grafts: a clinical report. Ben-Yehouda A. **J Prosthet Dent** 1997 Feb;77(2):111–3
Surgical treatment of nifedipine-induced gingival hyperplasia. A case report [see comments] Abitbol TE, et al. **N Y State Dent J** 1996 Aug–Sep;62(7):34–7 (24 ref.). Comment in: N Y State Dent J 1996 Dec;62(10):13.

GINGIVOSIS see **GINGIVAL DISEASES**

GINGIVOSTOMATITIS, HERPETIC see **STOMATITIS, HERPETIC**

GINSENG

No identifiable effect of ginseng (Gericomplex) as an adjuvant in the treatment of geriatric patients. Thommessen B, et al. **Aging (Milano)** 1996 Dec;8(6):417–20
pS2 expression induced by American ginseng in MCF-7 breast cancer cells. Duda RB, et al. **Ann Surg Oncol** 1996 Nov;3(6):515–20
Activation of multiple effector pathways of immune system by the antineoplastic immunostimulator acidic polysaccharide ginsan isolated from Panax ginseng. Lee YS, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):323–31
Ginseng treatment reduces bacterial load and lung pathology in chronic Pseudomonas aeruginosa pneumonia in rats. Song Z, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):961–4
Ginseng treatment enhances bacterial clearance and decreases lung pathology in athymic rats with chronic P. aeruginosa pneumonia. Song ZJ, et al. **APMIS** 1997 Jun;105(6):438–44
Ginsenoside-Rh1 and Rh2 inhibit the induction of nitric oxide synthesis in murine peritoneal macrophages. Park YC, et al. **Biochem Mol Biol Int** 1996 Nov;40(4):751–7
Ginseng pretreatment protects against transient global cerebral ischemia in the rat: measurement of local cerebral glucose utilization by [14C]deoxyglucose autoradiography. Choi SR, et al. **Biol Pharm Bull** 1996 Apr;19(4):644–6
The preventive effect of ginseng with du-zhong leaf on protein metabolism in aging. Metori K, et al. **Biol Pharm Bull** 1997 Mar;20(3):237–42
Effect of ginseng radix on GLUT2 protein content in mouse liver in normal and epinephrine-induced hyperglycemic mice. Ohnishi Y, et al. **Biol Pharm Bull** 1996 Sep; 19(9):1238–40
Effects of dietary supplementation of lipophilic fraction from Panax ginseng on cGMP and cAMP in rat platelets and on blood coagulation. Park HJ, et al. **Biol Pharm Bull** 1996 Nov;19(11):1434–9
Siberian ginseng toxicity may be case of mistaken identity [comment] Awang DV. **Can Med Assoc J** 1996 Nov 1; 155(9):1237. Comment on: Can Med Assoc J 1996 Aug 1;155(3):293–5.
Bioactive saponins and glycosides. VIII. Notoginseng (1): new dammarane-type triterpene oligoglycosides, notoginsenosides-A, -B, -C, and -D, from the dried root of Panax notoginseng (Burk.) F.H. Chen. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):1039–45
Cardiovascular protection by ginsenosides and their nitric oxide releasing action. Chen X. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):728–32 (19 ref.)
Vascular effects of selected antihypertensive drugs derived from traditional medicinal herbs. Kwan CY. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S297–9 (12 ref.)
Double-blind study of a multivitamin complex supplemented with ginseng extract. Caso Marasco A, et al. **Drugs Exp Clin Res** 1996;22(6):323–9
In vitro induction of differentiation by ginsenoides in F9 teratocarcinoma cells. Lee YN, et al. **Eur J Cancer** 1996 Jul;32A(8):1420–8
Blockade by ginseng total saponin of methamphetamine-induced hyperactivity and conditioned place preference in mice. Kim HS, et al. **Gen Pharmacol** 1996 Mar;27(2):199–204
Clinical efficacy of Korean red ginseng for erectile dysfunction. Choi HK, et al. **Int J Impot Res** 1995 Sep; 7(3):181–6
No ergogenic effect of ginseng ingestion. Morris AC, et al. **Int J Sport Nutr** 1996 Sep;6(3):263–71
Evidence of metal binding activities of pentadecapeptide from Panax ginseng. Kajiwara H, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):443–8
Effect of non-saponin fraction from Panax ginseng on cGMP and thromboxane A2 in human platelet aggregation. Park HJ, et al. **J Ethnopharmacol** 1995 Dec 15;49(3):157–62
Molecular biological analysis of the effects of ginsenoside-Rb2 on albumin mRNA in streptozotocin-induced diabetic rats. Yokozawa T, et al. **J Pharm Pharmacol** 1996 Jul;48(7):763–7
Experimental and epidemiological evidence of the cancer-preventive effects of Panax ginseng C.A. Meyer. Yun TK. **Nutr Rev** 1996 Nov;54(11 Pt 2):S71–81 (36 ref.)
Effects of Panax Ginseng C.A. Meyer saponins on male fertility. Salvati G, et al. **Panminerva Med** 1996 Dec; 38(4):249–54
Main ginseng saponin metabolites formed by intestinal bacteria. Hasegawa H, et al. **Planta Med** 1996 Oct; 62(5):453–7
Pulmonary protective and vasodilator effects of a standardized Panax ginseng preparation following artificial gastric digestion. Rimar S, et al. **Pulm Pharmacol** 1996 Aug; 9(4):205–9
[Effect of ginseng ginsenosides on phase transitions of dipalmitoylphosphatidylcholine membranes] Abdrasilov

BS, et al. **Antibiot Khimioter** 1996 Feb;41(2):22–9 (Eng. Abstr.) **(Rus)**

[Learning by mice of Y-maze using drinking reinforcement and aversive olfactory stimulus (beneficial effect of ginsenosides)] Chepurnov SA, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):253–7 **(Rus)**

[The development and creation of a new generation of superoxide dismutase-based antioxidant preparations] Demchenko TV, et al. **Stomatologiia (Mosk)** 1996;Spec No:51–2 **(Rus)**

CHEMISTRY

New saponins from Vietnamese ginseng: highlights on biogenesis of dammarane triterpenoids. Duc NM, et al. **Adv Exp Med Biol** 1996;404:129–49 (24 ref.)

Panax ginseng pharmacology: a nitric oxide link? Gillis CN. **Biochem Pharmacol** 1997 Jul 1;54(1):1–8 (50 ref.)

Application of PCR-RFLP and MASA analyses on 18S ribosomal RNA gene sequence for the identification of three Ginseng drugs. Fushimi H, et al. **Biol Pharm Bull** 1997 Jul;20(7):765–9

Isolation of cholesteryl ester transfer protein inhibitors from Panax ginseng roots. Kwon BM, et al. **Chem Pharm Bull (Tokyo)** 1996 Feb;44(2):444–5

Efficacy and safety of the standardised Ginseng extract G115 for potentiating vaccination against the influenza syndrome and protection against the common cold [corrected] [published erratum appears in Drugs Exp Clin Res 1996;22(6):338] Scaglione F, et al. **Drugs Exp Clin Res** 1996; 22(2):65–72

In vitro effects of echinacea and ginseng on natural killer and antibody-dependent cell cytotoxicity in healthy subjects and chronic fatigue syndrome or acquired immunodeficiency syndrome patients. See DM, et al. **Immunopharmacology** 1997 Jan;35(3):229–35

Studies on the neuroexcitotoxin beta-N-oxalo-L-alpha,beta-diaminopropionic acid and its isomer alpha-N-oxalo-L-alpha,beta-diaminopropionic acid from the root of Panax species. Long YC, et al. **Int J Pept Protein Res** 1996 Jan-Feb;47(1–2):42–6

Transcriptional activation of the Cu,Zn-superoxide dismutase gene through the AP2 site by ginsenoside Rb2 extracted from a medicinal plant, Panax ginseng. Kim YH, et al. **J Biol Chem** 1996 Oct 4;271(40):24539–43

Systemic administration of defined extracts from Withania somnifera (Indian Ginseng) and Shilajit differentially affects cholinergic but not glutamatergic and GABAergic markers in rat brain. Schliebs R, et al. **Neurochem Int** 1997 Feb; 30(2):181–90

Protection of ischemic hippocampal neurons by ginsenoside Rb1, a main ingredient of ginseng root. Lim JH, et al. **Neurosci Res** 1997 Jul;28(3):191–200

Immunostimulating polysaccharides from Panax notoginseng. Gao H, et al. **Pharm Res** 1996 Aug;13(8):1196–200

Majonoside-R2, a major constituent of Vietnamese ginseng, attenuates opioid-induced antinociception. Huong NT, et al. **Pharmacol Biochem Behav** 1997 May-Jun; 57(1–2):285–91

Protective effects of red ginseng saponins against carbon tetrachloride-induced hepatotoxicity in Sprague Dawley rats. Jeong TC, et al. **Planta Med** 1997 Apr;63(2):136–40

Ginseng total saponin inhibits the dopaminergic depletions induced by methamphetamine. Oh KW, et al. **Planta Med** 1997 Feb;63(1):80–1

Determination of aglycones of ginsenosides in ginseng preparations sold in Sweden and in urine samples from Swedish athletes consuming ginseng. Cui JF, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):151–60

[Protective hepatotropic effect of preparations from mussels and ginseng during exposure of animals to dioctylphthalate] Gorenkov RV, et al. **Biull Eksp Biol Med** 1994 May; 117(5):550–4 **(Rus)**

CLASSIFICATION

Phylogeny and biogeography of Panax L. (the ginseng genus, araliaceae): inferences from ITS sequences of nuclear ribosomal DNA. Wen J, et al. **Mol Phylogenet Evol** 1996 Oct;6(2):167–77

ENZYMOLOGY

Primary structures of two ribonucleases from ginseng calluses. New members of the PR-10 family of intracellular pathogenesis-related plant proteins. Moiseyev GP, et al. **FEBS Lett** 1997 Apr 28;407(2):207–10

GENETICS

18S ribosomal RNA gene sequences of three Panax species and the corresponding ginseng drugs. Fushimi H, et al. **Biol Pharm Bull** 1996 Nov;19(11):1530–2

The physical map of the chloroplast DNA from Korean ginseng (Panax ginseng C.A. Meyer). Choi JE, et al. **Mol Cells** 1997 Feb 28;7(1):136–9

[PCR-genetic typing of ginseng using random primers] Zhuravlev IuN, et al. **Dokl Akad Nauk** 1996 Jul; 349(1):111–4 **(Rus)**

METABOLISM

In vitro conversion of 2,3-oxidosqualene into dammarenediol by Panax ginseng microsomes. Kushiro T, et al. **Biol Pharm Bull** 1997 Mar;20(3):292–4

Rhamnogalacturonan II from the leaves of Panax ginseng C.A. Meyer as a macrophage Fc receptor expression-enhancing polysaccharide. Shin KS, et al. **Carbohydr Res** 1997 May 16;300(3):239–49

Ginseng extract scavenges hydroxyl radical and protects unsaturated fatty acids from decomposition caused by iron-mediated lipid peroxidation. Zhang D, et al. **Free Radic Biol Med** 1996;20(1):145–50

Gas chromatographic-mass spectrometric determination of 20(S)-protopanaxadiol and 20(S)-protopanaxatriol for study on human urinary excretion of ginsenosides after ingestion of ginseng preparations. Cui JF, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):349–55

PHYSIOLOGY

The effect of ginseng extract on locomotor sensitization and conditioned place preference induced by methamphetamine and cocaine in mice. Tokuyama S, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):671–6

GIZZARD

CHEMISTRY

Histochemical study of the epithelial mucins in the gizzard of the chick embryo. Sgambati E, et al. **Ital J Anat Embryol** 1996 Jul-Sep;101(3):173–85

Effect of lead ingestion on concentrations of lead in tissues and eggs of laying Tsaiya ducks in Taiwan. Jeng SL, et al. **Poult Sci** 1997 Jan;76(1):13–6

CYTOLOGY

Differentiation of smooth muscle cells from undifferentiated cells of chicken gizzard occurs on the layer of fibroblast-like cells. Ko JA, et al. **Cell Tissue Res** 1996 Sep;285(3):395–401

DRUG EFFECTS

Effects of histamine on gizzard erosions and on the activity of selected enzymes in chickens. Džaja P, et al. **Acta Vet Hung** 1995;43(4):431–41

Omeprazole, a specific gastric secretion inhibitor on oxynticopeptic cells, reduces gizzard erosion in broiler chicks fed with toxic fish meals. Hinrichsen JP, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jul;117(3):267–73

EMBRYOLOGY

Histochemical study of the epithelial mucins in the gizzard of the chick embryo. Sgambati E, et al. **Ital J Anat Embryol** 1996 Jul-Sep;101(3):173–85

ENZYMOLOGY

Immunolocalization of the ecto-ATPase and ecto-apyrase in chicken gizzard and stomach. Purification and N-terminal sequence of the stomach ecto-apyrase. Lewis-Carl S, et al. **J Biol Chem** 1997 Sep 19; 272(38):23645–52

INNERVATION

Pharmacological properties of non-adrenergic, non-cholinergic inhibitory transmission in chicken gizzard. Komori S, et al. **Br J Pharmacol** 1997 Jun;121(3):572–8

METABOLISM

Activation of chicken gizzard myosin light chain kinase by Ca2+/calmodulin is inhibited by autophosphorylation. Abe M, et al. **Cell Struct Funct** 1996 Jun;21(3):183–8

Characterization of chicken gizzard calcyclin and examination of its interaction with caldesmon. Filipek A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr;113(4):745–52

GLA PROTEIN, BONE see **OSTEOCALCIN**

GLACIAL ACETIC ACID see **ACETIC ACID**

GLANDERS

DRUG THERAPY

[Recovery rate in chemotherapy of glanders] Batmanov VP, et al. **Antibiot Khimioter** 1996 May;41(5):30–4 (Eng. Abstr.) **(Rus)**

[Various indices of the infectious process in treatment of glanders in monkeys] Manzeniuk IN, et al. **Antibiot Khimioter** 1996 Jan;41(1):13–8 (Eng. Abstr.) **(Rus)**

ETIOLOGY

[The pathomorphology and pathogenesis of glanders in laboratory animals] Diadishchev NR, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar-Apr; (2):60–4 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

[The transfer of antibacterial resistance to recipients highly sensitive to glanders] Diadishchev NR, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):81–4 (Eng. Abstr.) **(Rus)**

PATHOLOGY

[The pathomorphology and pathogenesis of glanders in laboratory animals] Diadishchev NR, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar-Apr; (2):60–4 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

[Homeostatic changes in monkeys in a model of glanders] Manzeniuk IN, et al. **Antibiot Khimioter** 1997;42(5):29–34 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

[Immunogenic potential of glanders and melioidosis agents] Kalachev II, et al. **Vestn Ross Akad Med Nauk** 1997; (6):32–7 (Eng. Abstr.) **(Rus)**

GLANDULAR FEVER see **INFECTIOUS MONONUCLEOSIS**

GLANZMANN THROMBASTHENIA see **THROMBASTHENIA**

GLARE

Glare sensitivity and visual acuity after excimer laser photorefractive keratectomy for myopia. Niesen U, et al. **Br J Ophthalmol** 1997 Feb;81(2):136–40

Dapiprazole for patients with night haloes after excimer keratectomy. Alster Y, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S139–41

Reflections on antireflection films. McQuaid RD. **J Am Optom Assoc** 1997 Mar;68(3):191–201 (116 ref.)

Effect of capsulorhexis diameter on glare disability. Assia EI, et al. **J Cataract Refract Surg** 1996 Sep;22(7):947–50

Demonstrating glare to the surgical patient [letter] Bigger JF. **J Cataract Refract Surg** 1997 Jun;23(5):697

Glare disability and contrast sensitivity before and after cataract surgery. Superstein R, et al. **J Cataract Refract Surg** 1997 Mar;23(2):248–53

Night halos after automated lamellar keratoplasty. **J Refract Surg** 1996 Nov-Dec;12(7):809–12

ADVERSE EFFECTS

Laboratory simulator and field pursuit tracking performance with females and males in the presence of laser glare. Stamper DA, et al. **Aviat Space Environ Med** 1997 Jul; 68(7):580–7

Visual performance and patient preference: a comparison of anti-reflection coated and uncoated spectacle lenses. Ross J, et al. **J Am Optom Assoc** 1997 Jun;68(6):361–6

GLASGOW COMA SCALE

Failure of the Miller criteria to predict significant intracranial injury in patients with a Glasgow Coma Scale score of 14 after minor head trauma. Holmes JF, et al. **Acad Emerg Med** 1997 Aug;4(8):788–92

Prognostic value of Glasgow Coma Scale for tracheotomy in head injured patients. Lajtman Z, et al. **Acta Med Croatica** 1996;50(3):133–6

Relationship between Glasgow coma scale and functional outcome. Zafonte RD, et al. **Am J Phys Med Rehabil** 1996 Sep-Oct;75(5):364–9

Student's t test and the Glasgow Coma Scale. Lucke JF. **Ann Emerg Med** 1996 Oct;28(4):408–13

Does modification of the Innsbruck and the Glasgow Coma Scales improve their ability to predict functional outcome? Diringer MN, et al. **Arch Neurol** 1997 May;54(5):606–11

The value of the Short Form 36 score in the outcome assessment of subarachnoid haemorrhage. Deane M, et al. **Br J Neurosurg** 1996 Apr;10(2):187–91

Mild head injury: differences in prognosis among patients with a Glasgow Coma Scale score of 13 to 15 and analysis of factors associated with abnormal CT findings. Gómez PA, et al. **Br J Neurosurg** 1996 Oct;10(5):453–60

The Coma Exit Chart: assessing the patient in prolonged coma and the vegetative state. Freeman EA. **Brain Inj** 1996 Aug;10(8):615–24

Carotid arterial trauma: assessment with the Glasgow Coma Scale (GCS) as a guide to surgical management. Teehan EP, et al. **Cardiovasc Surg** 1997 Apr;5(2):196–200 (27 ref.)

Long-term follow up of children with head injuries-classified as "good recovery" using the Glasgow Outcome Scale: neurological, neuropsychological and magnetic resonance imaging results. Koelfen W, et al. **Eur J Pediatr** 1997 Mar; 156(3):230–5

Evaluation of the Glasgow Coma Scale score in critically Ill infectious disease patients. Baršić B, et al. **Infection** 1996 Jul-Aug;24(4):297–300

Comparison of the APACHE III, APACHE II and Glasgow Coma Scale in acute head injury for prediction of mortality and functional outcome. Cho DY, et al. **Intensive Care Med** 1997 Jan;23(1):77–84

Interrater reliability of the Glasgow Coma Scale [letter; comment] Elliott M. **J Neurosci Nurs** 1996 Aug;28(4):213–4 . Comment on: J Neurosci Nurs 1995 Oct;27(5):283–6.

Appropriate use of the Glasgow Coma Scale in intubated

patients: a linear regression prediction of the Glasgow verbal score from the Glasgow eye and motor scores [letter; comment] Chesnut RM. **J Trauma** 1997 Feb;42(2):345. Comment on: J Trauma 1996 Sep;41(3):514–22.
Problems of the Glasgow Coma Scale with early intubated patients. Moskopp D, et al. **Neurosurg Rev** 1995;18(4):253–7
Glasgow Coma Scale in the prediction of outcome after early aneurysm surgery. Gotoh O, et al. **Neurosurgery** 1996 Jul; 39(1):19–24; discussion 24–5
Clinical grading and outcome after early surgery in aneurysmal subarachnoid hemorrhage. Hirai S, et al. **Neurosurgery** 1996 Sep;39(3):441–6; discussion 446–7
A new subarachnoid hemorrhage grading system based on the Glasgow Coma Scale: a comparison with the Hunt and Hess and World Federation of Neurological Surgeons Scales in a clinical series. Oshiro EM, et al. **Neurosurgery** 1997 Jul;41(1):140–7; discussion 147–8
The prognostic value of the Glasgow Coma Scale, hypoxia and computerised tomography in outcome prediction of pediatric head injury. Ong L, et al. **Pediatr Neurosurg** 1996 Jun;24(6):285–91
[Grading of level of consciousness] Takeuchi E, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:315–7 (8 ref.) **(Jpn)**
[Evaluation of prognosis in purulent meningitis–myelitis based on the Glasgow Coma Scale] Garlicki A, et al. **Przegl Lek** 1996;53(10):717–8 (Eng. Abstr.) **(Pol)**

GLASGOW OUTCOME SCALE see **GLASGOW COMA SCALE**

GLASS

Worker exposure to endotoxin, phenolic compounds, and formaldehyde in a fiberglass insulation manufacturing plant. Milton DK, et al. **Am Ind Hyg Assoc J** 1996 Oct; 57(10):889–96
Art glassware and sinonasal cancer: report of three cases. Battista G, et al. **Am J Ind Med** 1996 Jul;30(1):31–5
Commentary on "fibrous glass and lung cancer" [letter; comment] Hesterberg TW, et al. **Am J Ind Med** 1996 Jul; 30(1):111–2, discussion 113–20. Comment on: Am J Ind Med 1994 Oct;26(4):559–84.
Commentary on "Fibrous glass and lung cancer" [letter; comment] McConnell EE. **Am J Ind Med** 1996 Jul; 30(1):109–10, discussion 113–20. Comment on: Am J Ind Med 1994 Oct;26(4):559–84.
Pulmonary fibrosis in a carpenter with long–lasting exposure to fiberglass. Takahashi T, et al. **Am J Ind Med** 1996 Nov; 30(5):596–600
Epidemiology of fibrous glass and lung cancer [letter; comment] Weiss W. **Am J Ind Med** 1996 Jul;30(1):105–8, discussion 113–20. Comment on: Am J Ind Med 1994 Oct;26(4):559–84.
Covalent attachment of hybridizable oligonucleotides to glass supports. Joos B, et al. **Anal Biochem** 1997 Apr 5; 247(1):96–101
BMPs induce endochondral ossification in rats when implanted ectopically within a carrier made of fibrous glass membrane. Sasano Y, et al. **Anat Rec** 1997 Apr;247(4):472–8
Comparison of cytotoxicity of man–made vitreous fibres. Luoto K, et al. **Ann Occup Hyg** 1997 Jan;41(1):37–50
A comparative study of the clearance of respirable para–aramid, chrysotile and glass fibres from rat lungs. Searl A. **Ann Occup Hyg** 1997 Apr;41(2):217–33
Comparison between swim–up and glass wool column filtration of human semen in a gamete intrafallopian transfer program. Sanchez Sarmiento CA, et al. **Arch Androl** 1996 Mar–Apr;36(2):155–60
Accelerative sliding of myosin–coated glass–beads under suspended condition from actin paracrystal. Suda H, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):427–31
Study of devitrification of Dicor glass. Bapna MS, et al. **Biomaterials** 1996 Nov;17(21):2045–52
Effect of the substitution of Y2O3 for CaO on the bioactivity of 2.5CaO.2SiO2 glass. Costantini A, et al. **Biomaterials** 1997 Mar;18(6):453–8
Formation of surface reaction products on bioactive glass and their effects on the expression of the osteoblastic phenotype and the deposition of mineralized extracellular matrix. el–Ghannam A, et al. **Biomaterials** 1997 Feb; 18(4):295–303
Polymethylmethacrylate composites: disturbed bone formation at the surface of bioactive glass and hydroxyapatite. Heikkilä JT, et al. **Biomaterials** 1996 Sep; 17(18):1755–60
Release of residual methyl methacrylate into water from glass fibre–poly(methyl methacrylate) composite used in dentures. Miettinen VM, et al. **Biomaterials** 1997 Jan; 18(2):181–5
Adhesion of Lactobacillus species in urine and phosphate buffer to silicone rubber and glass under flow. Millsap KW, et al. **Biomaterials** 1997 Jan;18(1):87–91
Biomaterial–induced alterations of human neutrophils under fluid shear stress: scanning electron microscopical study in vitro. Tomczok J, et al. **Biomaterials** 1996 Jul; 17(14):1359–67
Proteins involved in the Vroman effect during exposure of human blood plasma to glass and polyethylene. Turbill P, et al. **Biomaterials** 1996 Jul;17(13):1279–87
Improved methods for making and using glass knives. Wang W, et al. **Biotech Histochem** 1997 May;72(3):129–34
Cerium oxide removes background fluorescent contaminants, "green smears", from glass plates used for automated fluorescence–based DNA sequencing. Bunville J, et al. **Biotechniques** 1997 Feb;22(2):236–8
Two products for siliconizing glass plates used in gel electrophoresis. Elsom BL, et al. **Biotechniques** 1997 May; 22(5):866–8
Selective hyperexpression of c–jun oncoprotein by glass fiber– and silica–transformed BALB/c–3T3 cells. Gao H, et al. **Cancer Lett** 1997 Jan 15;112(1):65–9
A human in vivo model for the determination of lead bioavailability using stable isotope dilution. Graziano JH, et al. **Environ Health Perspect** 1996 Feb;104(2):176–9
Effects of four different methods of sampling arterial blood and storage time on gas tensions and shunt calculation in the 100% oxygen test. Smeenk FW, et al. **Eur Respir J** 1997 Apr;10(4):910–3
Titanium and bioactive glass–ceramic coated titanium as materials for keratoprosthesis. Linnola RJ, et al. **Exp Eye Res** 1996 Oct;63(4):471–8
Differences in the sensitivity of hamster and rat lung cells exposed in vitro to natural and man–made fibres. Aufderheide M, et al. **Exp Toxicol Pathol** 1996 Nov; 48(6):505–7
Lead migration from lead crystal wine glasses. Hight SC. **Food Addit Contam** 1996 Oct;13(7):747–65
Use of lung toxicity and lung particle clearance to estimate the maximum tolerated dose (MTD) for a fiber glass chronic inhalation study in the rat. Hesterberg TW, et al. **Fundam Appl Toxicol** 1996 Jul;32(1):31–44
Otoneurological study in workers exposed to styrene in the fiberglass industry. Calabrese G, et al. **Int Arch Occup Environ Health** 1996;68(4):219–23
Urinary malondialdehyde and 8–hydroxydeoxyguanosine as potential markers of oxidative stress in industrial art glass workers. Tagesson C, et al. **Int Arch Occup Environ Health** 1996;69(1):5–13
Gaussian neural networks for glass bottles inspection: a learning procedure. Firmin C, et al. **Int J Neural Syst** 1997 Feb;8(1):41–6
Glass wool filtration reduces reactive oxygen species by elimination of leukocytes in oligozoospermic patients with leukocytospermia. Sánchez R, et al. **J Assist Reprod Genet** 1996 Jul;13(6):489–94
Adhesion of the positively charged bacterium Stenotrophomonas (Xanthomonas) maltophilia 70401 to glass and Teflon. Jucker BA, et al. **J Bacteriol** 1996 Sep; 178(18):5472–9
Effect of electrochemically deposited apatite coating on bonding of bone to the HA–G–Ti composite and titanium. Ban S, et al. **J Biomed Mater Res** 1997 Jul;36(1):9–15
The influence of alkali and alkaline earths on the working range for bioactive glasses. Brink M. **J Biomed Mater Res** 1997 Jul;36(1):109–17
Effect of the substitution of La2O3 for CaO on the bioactivity of 2.5CaO.2SiO2 glass. Fresa R, et al. **J Biomed Mater Res** 1996 Oct;32(2):187–92
Importance of microanalysis in understanding mechanism of transformation in active glassy biomaterials. Gatti AM, et al. **J Biomed Mater Res** 1996 Aug;31(4):475–80
Porous bioactive glass and hydroxyapatite ceramic affect bone cell function in vitro along different time lines. El–Ghannam A, et al. **J Biomed Mater Res** 1997 Aug; 36(2):167–80
Glass peek composite promotes proliferation and osteocalcin production of human osteoblastic cells. Lin TW, et al. **J Biomed Mater Res** 1997 Aug;36(2):137–44
Crystallization of experimental bioactive glass compositions. Rizkalla AS, et al. **J Biomed Mater Res** 1996 Sep; 32(1):119–24
Protein adsorption to a bioactive glass with special reference to precorrosion. Söderling E, et al. **J Biomed Mater Res** 1996 Aug;31(4):525–31
Subchondral bone and cartilage repair with bioactive glasses, hydroxyapatite, and hydroxyapatite–glass composite. Suominen E, et al. **J Biomed Mater Res** 1996 Dec; 32(4):543–51
Histomorphometric and molecular biologic comparison of bioactive glass granules and autogenous bone grafts in augmentation of bone defect healing. Virolainen P, et al. **J Biomed Mater Res** 1997 Apr;35(1):9–17
Effectiveness of salt versus glass bead sterilizers. Haddad AJ, et al. **J Can Dent Assoc** 1997 Jun;63(6):448–53
The consequences of punching glass. Bokhari AA, et al. **J Hand Surg [Br]** 1997 Apr;22(2):202–3
"Through–glass" injuries. Irwin LR, et al. **J Hand Surg [Br]** 1996 Dec;21(6):788–91
An unusual cause of facial pain. de Carpentier JP, et al. **J Laryngol Otol** 1996 Aug;110(8):796–8
Glass in the frontal sinus: report of three cases. Onerci M, et al. **J Laryngol Otol** 1997 Feb;111(2):156–8 (3 ref.)
Differentiated B104 neuroblastoma cells are a high–resolution assay for micropatterned substrates. Corey JM, et al. **J Neurosci Methods** 1997 Jul 18;75(1):91–7
Rapid coating of glass–capillary microelectrodes for single–electrode voltage–clamp. Juusola M, et al. **J Neurosci Methods** 1997 Feb;71(2):199–204
A simple method for the construction of a recording–injection microelectrode with glass–insulated microwire. Tsai ML, et al. **J Neurosci Methods** 1997 Mar; 72(1):1–4
Historical cohort mortality study of a continuous filament fiberglass manufacturing plant. I. White men. Chiazze L Jr, et al. **J Occup Environ Med** 1997 May;39(5):432–41
Historical cohort mortality study of a continuous filament fiberglass manufacturing plant. II. Women and minorities. Watkins DK, et al. **J Occup Environ Med** 1997 Jun; 39(6):548–55
Calcium and silicon from bioactive glass concerned with formation of nodules in periodontal–ligament fibroblasts in vitro. Kubo K, et al. **J Oral Rehabil** 1997 Jan;24(1):70–5
Bioactive glass particles of narrow size range for the treatment of oral bone defects: a 1–24 month experiment with several materials and particle sizes and size ranges. Schepers EJ, et al. **J Oral Rehabil** 1997 Mar;24(3):171–81
Micromachined analytical devices: microchips for semen testing. Kricka LJ, et al. **J Pharm Biomed Anal** 1997 Jun; 15(9–10):1443–7
In vitro effects of large and small glass fibers on rat alveolar macrophages. Castranova V, et al. **J Toxicol Environ Health** 1996 Nov;49(4):357–69
Induction of micronucleated and multinucleated cells by man–made fibers in vitro in mammalian cells. Ong T, et al. **J Toxicol Environ Health** 1997 Mar;50(4):409–14
Aspiration of shattered windshield glass after blind nasotracheal intubation in a motor vehicle crash. Madhere S, et al. **J Trauma** 1997 Aug;43(2):353–6
Enterovirus genomes in wastewater: concentration on glass wool and glass powder and detection by RT–PCR. Gantzer C, et al. **J Virol Methods** 1997 May;65(2):265–71
Studies on the relationship between treatment condition and micronucleus induction in V79 cells exposed to silica and glass fibers. Zhong BZ, et al. **Mutat Res** 1997 Jun 13; 391(1–2):111–6
Unusual foreign body causing quadriparesis: case report. Tomaras CR, et al. **Neurosurgery** 1997 Jun;40(6):1291–3; discussion 1293–4
Covalent attachment of DNA oligonucleotides to glass. Cohen G, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):911–2
Glassblowers' ocular health and safety: optical radiation hazards and eye protection assessment. Oriowo OM, et al. **Ophthalmic Physiol Opt** 1997 May;17(3):216–24
Quantitative risk assessment for a glass fiber insulation product. Fayerweather WE, et al. **Regul Toxicol Pharmacol** 1997 Apr;25(2):103–20
Bioactive glass granules and plates in the reconstruction of defects of the facial bones. Suominen E, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Dec; 30(4):281–9
The acquisition of breaking and broken glass. Underhill M. **Sci Justice** 1997 Apr–Jun;37(2):121–7
Patterned delivery of immunoglobulins to surfaces using microfluidic networks. Delamarche E, et al. **Science** 1997 May 2;276(5313):779–81
[An interesting case: late sequelae of a primary asymptomatic glass fragment injury of the wrist] Slodicka R, et al. **Handchir Mikrochir Plast Chir** 1996 Nov;28(6):306–8 (Eng. Abstr.) **(Ger)**
[A method of improving the attachment of paraffin sections to a glass slide] Zavalishina LE, et al. **Arkh Patol** 1997 Jul–Aug;59(4):63–5 (Eng. Abstr.) **(Rus)**
[Glass ceramic apatite–containing materials for medical use] Abdullaev ShIu. **Stomatologiia (Mosk)** 1996;75(5):57–8 **(Rus)**

ANALYSIS

19F NMR spectroscopy of glass ceramics containing fluoroapatites. Jana C, et al. **Biomaterials** 1996 Nov; 17(21):2065–9
Comparison of biopersistence of experimental glass fibres in the lung and peritoneal cavity. Morris KJ, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):490–3
Pulmonary and pleural responses in Fischer 344 rats following short–term inhalation of a synthetic vitreous fiber. II. Pathobiologic responses. Gelzleichter TR, et al. **Fundam Appl Toxicol** 1996 Mar;30(1):39–46
Pulmonary and pleural responses in Fischer 344 rats following short–term inhalation of a synthetic vitreous fiber. I. Quantitation of lung and pleural fiber burdens. Gelzleichter TR, et al. **Fundam Appl Toxicol** 1996 Mar; 30(1):31–8
Confined space hazards and fiberglass exposure [letter; comment] Bender JR. **J Occup Environ Med** 1996 Jul; 38(7):658. Comment on: J Occup Environ Med 1995 Feb;37(2):185–8.

CHEMISTRY

Impact strength of denture polymethyl methacrylate reinforced with continuous glass fibers or metal wire. Vallittu PK, et al. **Acta Odontol Scand** 1995 Dec; 53(6):392–6
Bioactivity of 1.25CaO.SiO2 glass: an FTIR and X–ray study on powdered samples. Branda F, et al. **Biomaterials** 1996 Dec;17(23):2247–51
Sintering effects in a glass reinforced hydroxyapatite. Knowles JC, et al. **Biomaterials** 1996 Jul;17(14):1437–42
Albumin adhesion on some biological and non–biological glasses and connection with their Z–potentials. Krajewski A, et al. **Biomaterials** 1996 Jan;17(1):53–60
Preliminary comparison of mineralizing multilayer cultures formed by primary fetal bovine mandibular osteoblasts grown on titanium, hydroxyapatite, and glass substrates. Yliheikkilä PK, et al. **Int J Oral Maxillofac Implants** 1996 Jul–Aug;11(4):456–65

Morphological evidence for a different fibronectin receptor organization and function during fibroblast adhesion on hydrophilic and hydrophobic glass substrata. Altankov G, et al. **J Biomater Sci Polym Ed** 1997;8(9):721–40

Ectopic bone induction in porous apatite–wollastonite–containing glass ceramic combined with bone morphogenetic protein. Ijiri S, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):421–32

Characterization of apatite layer formation on P2O5–CaO, P2O5–CaO–Na2O, and P2O5–CaO–Na2O–Al2O3 glass hydroxyapatite composites. Jha LJ, et al. **J Biomed Mater Res** 1996 Aug;31(4):481–6

Hydrolytically stable amino–silica glass coating material for manipulation of the electroosmotic flow in capillary electrophoresis. Guo Y, et al. **J Chromatogr A** 1996 Sep 13;744(1–2):17–29

Application of solid–phase extraction discs with a glass fiber matrix to fast determination of polycyclic aromatic hydrocarbons in water. Urbe I, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):337–45

Curing of a silane coupling agent and its effect on the transverse strength of autopolymerizing polymethylmethacrylate–glass fibre composite. Vallittu PK. **J Oral Rehabil** 1997 Feb;24(2):124–30

Binding of taxol to plastic and glass containers and protein under in vitro conditions. Song D, et al. **J Pharm Sci** 1996 Jan;85(1):29–31

Water sorption and solubility of glass fiber–reinforced denture polymethyl methacrylate resin. Miettinen VM, et al. **J Prosthet Dent** 1997 May;77(5):531–4

Influence of lamination on the flexural strength of a dental castable glass ceramic. al–Shehri SA, et al. **J Prosthet Dent** 1996 Jul;76(1):23–8

Effects of extracts of fiberglass insulations on the growth of Aspergillus fumigatus and A. versicolor. Ezeonu IM, et al. **Mycopathologia** 1995 Nov;132(2):65–9

Effect of compaction temperature on consolidation of amorphous copolymers with different glass transition temperatures. Van der Voort Maarschalk K, et al. **Pharm Res** 1997 Apr;14(4):415–9

Solid state NMR characterisation of crystalline Na2O–ZrO2–SiO2 phases. Bastow TJ, et al. **Solid State Nucl Magn Reson** 1996 Jan;5(4):293–303

Dynamics of glass–forming di–n–butyl phthalate as studied by NMR. Szcześniak E, et al. **Solid State Nucl Magn Reson** 1997 Apr;8(2):73–9

[Kinetics of serum albumin adsorption on the macroporous glass MPS–250 GKH] Naumova LV, et al. **Prikl Biokhim Mikrobiol** 1996 Sep–Oct;32(5):493–5 (Eng. Abstr.) **(Rus)**

GLASS IONOMER CEMENTS

Long–term results of glass ionomer cement, Ionocem, in the middle ear of the rat. Kupperman D, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):27–30

Problem with fluoride containing and releasing cement [letter] Fein SI. **Am J Orthod Dentofacial Orthop** 1997 Apr; 111(4):39A

A 12–month clinical comparison of resin–modified light–activated adhesives for the cementation of orthodontic molar bands. Fricker JP. **Am J Orthod Dentofacial Orthop** 1997 Sep;112(3):239–43

Mutans streptococci and incipient caries adjacent to glass ionomer cement or resin–based composite in orthodontics. Ortendahl T, et al. **Am J Orthod Dentofacial Orthop** 1997 Sep;112(3):271–4

Clinical and microbiologic evaluation of a resin modified glass ionomer cement for orthodontic bonding. Wright AB, et al. **Am J Orthod Dentofacial Orthop** 1996 Nov; 110(5):469–75

A three–year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets [see comments] Miller JR, et al. **Angle Orthod** 1996;66(4):309–12. Comment in: Angle Orthod 1996;66(4):243.

An in vitro caries inhibition of photopolymerized glass ionomer liners. Donly KJ, et al. **ASDC J Dent Child** 1997 Mar–Apr;64(2):128–30

Resin–modified glass ionomer cements (RM GICs) implications for use in pediatric dentistry. Vaikuntam J. **ASDC J Dent Child** 1997 Mar–Apr;64(2):131–4 (18 ref.)

Histological evaluation of the biocompatibility of a glass–ionomer cement in rat alveolus. Brentegani LG, et al. **Biomaterials** 1997 Jan;18(2):137–40

Role of exchanged ions in the integration of ionomeric (glass polyalkenoate) bone substitutes. Carter DH, et al. **Biomaterials** 1997 Mar;18(6):459–66

Restoration of primary molars [letter; comment] Curzon ME, et al. **Br Dent J** 1996 Apr 6;180(7):246. Comment on: Br Dent J 1995 Sep 9;179(5):175–9.

In vivo cariostatic effect of resin modified glass ionomer cement and amalgam on dentine. Kreulen CM, et al. **Caries Res** 1997;31(5):384–9

Repair of the ossicular chain with an ionomer cement by an inadequate incus after prior stapes surgery for otosclerosis. Tange RA. **Eur Arch Otorhinolaryngol** 1996; 253(4–5):313–5

Enamel fluoride levels after orthodontic band cementation with glass ionomer cement. Akkaya S, et al. **Eur J Orthod** 1996 Feb;18(1):81–7

White spot reduction when using glass ionomer cement for bonding in orthodontics: a longitudinal and comparative study. Marcusson A, et al. **Eur J Orthod** 1997 Jun; 19(3):233–42

Orthodontic bonding with glass ionomer cement—a review. Millett DT, et al. **Eur J Orthod** 1996 Aug;18(4):385–99 (81 ref.)

A clinical evaluation of a glass ionomer cement as an orthodontic bonding adhesive compared with an acrylic resin. Norevall LI, et al. **Eur J Orthod** 1996 Aug; 18(4):373–84

Surface roughness of glass–ceramic insert–composite restorations: assessing several polishing techniques. Ashe MJ, et al. **J Am Dent Assoc** 1996 Oct;127(10):1495–500

Clinical evaluation of compomer in primary teeth: 1–year results. Hse KM, et al. **J Am Dent Assoc** 1997 Aug; 128(8):1088–96

Using a resin–modified glass ionomer as an occlusal sealant: a one–year clinical study. Winkler MM, et al. **J Am Dent Assoc** 1996 Oct;127(10):1508–14

A clinical comparison of a light cured glass ionomer sealant restoration with a composite sealant restoration. Kilpatrick NM, et al. **J Dent** 1996 Nov;24(6):399–405

Early and long–term wear of conventional and resin–modified glass ionomers. de Gee AJ, et al. **J Dent Res** 1996 Aug;75(8):1613–9

In vitro plaque formation on some dental filling materials. Benderli Y, et al. **J Oral Rehabil** 1997 Jan;24(1):80–3

Secondary caries formation in vitro around glass ionomer–lined amalgam and composite restorations. Dionysopoulos P, et al. **J Oral Rehabil** 1996 Aug; 23(8):511–9

Cutting effectiveness of diamond points on commercial core composite resins and cements. Miyawaki H, et al. **J Oral Rehabil** 1996 Jun;23(6):409–15

Influence of adhesive systems on the bonding of dental amalgam to glass ionomer cement. Nobilo MA, et al. **J Prosthet Dent** 1997 Feb;77(2):127–30

Adhesion of glass ionomer cement to a ceramometal alloy. Vallittu PK, et al. **J Prosthet Dent** 1997 Jan;77(1):12–6

Glass ionomer as fissure sealant—a critical review. Simonsen RJ. **J Public Health Dent** 1996;56(3 Spec No):146–9; discussion 161–3 (21 ref.)

Dental caries under glass ionomer restorations. van Amerongen WE. **J Public Health Dent** 1996;56(3 Spec No):150–4; discussion 161–3 (29 ref.)

Resin modified glass ionomer cements. In vitro microleakage in direct class V and class II sandwich restorations. Sjödin L, et al. **Swed Dent J** 1996;20(3):77–86 (55 ref.)

[Long–term stability of glass ionomer cement—method and results] Kraft M, et al. **Biomed Tech (Berl)** 1996 Jan–Feb; 41(1–2):23–31 (Eng. Abstr.) **(Ger)**

[Ionomer cement as bone substitute in the middle ear of the rabbit] Geyer G. **HNO** 1997 Apr;45(4):222–6 (Eng. Abstr.) **(Ger)**

[Ionomer cement prostheses in reconstructive middle ear surgery] Geyer G, et al. **HNO** 1997 Jun;45(6):442–7 (Eng. Abstr.) **(Ger)**

[Augmentation of the temporal fossa with Ionos bone cement] Schick B, et al. **HNO** 1996 Aug;44(8):467–70 (Eng. Abstr.) **(Ger)**

[Ionomer cement in cochlear implant surgery—applications and long–term outcome] Kempf HG, et al. **Laryngorhinootologie** 1996 Jul;75(7):388–91 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Occupational allergic contact dermatitis caused by acrylic tri–cure glass ionomer. Kanerva L, et al. **Contact Dermatitis** 1997 Jul;37(1):49–50

[Toxic aluminum encephalopathy. Predominant involvement of the limbic system on MRI] Lévêque C, et al. **J Neuroradiol** 1996 Dec;23(3):168–72 (Eng. Abstr.) **(Fre)**

ANALYSIS

Aluminum ions in analysis of released fluoride from glass ionomers. Nakajima H, et al. **J Dent** 1997 Mar;25(2):137–44

CHEMISTRY

Fluoride release and shear bond strengths of three light–cured glass ionomer cements. Ashcraft DB, et al. **Am J Orthod Dentofacial Orthop** 1997 Mar;111(3):260–5

Bond strength of visible light–cured glass ionomer orthodontic cement. Jobalia SB, et al. **Am J Orthod Dentofacial Orthop** 1997 Aug;112(2):205–8

Evaluation of a resin–reinforced glass ionomer cement for use as an orthodontic bonding agent. Komori A, et al. **Angle Orthod** 1997;67(3):189–95

Initial tensile bond strength of resin–modified glass ionomers and polyacid–modified resins on perfused primary dentin. Kielbassa AM, et al. **ASDC J Dent Child** 1997 May–Jun; 64(3):183–7, 165

Bond strength of light–cured glass ionomers to carious primary dentin. Way JL, et al. **ASDC J Dent Child** 1996 Jul–Aug;63(4):261–4

Comparison of retentive qualities of two glass–ionomer cements used as fissure sealants. Weerheijm KL, et al. **ASDC J Dent Child** 1996 Jul–Aug;63(4):265–7

Adhesion to enamel of light–cured poly–acid dental materials. Desai M, et al. **Aust Dent J** 1996 Dec;41(6):393–7

Water sorption characteristics of resin–modified glass–ionomer cements. Kanchanavasita W, et al. **Biomaterials** 1997 Feb;18(4):343–9

Factors contributing to the temperature rise during polymerization of resin–modified glass–ionomer cements. Kanchanavasita W, et al. **Biomaterials** 1996 Dec; 17(24):2305–12

Glass–ionomer cements based on poly(acrylic acid–co–vinyl alcohol) in drug release model formulations. Lindsjö MC, et al. **Biomaterials** 1996 May;17(9):913–9

Changes in compressive strength on ageing in glass polyalkenoate (glass–ionomer) cements prepared from acrylic/maleic acid copolymers. Nicholson JW, et al. **Biomaterials** 1997 Jan;18(1):59–62

Method for enhancing the fluoride release of a glass–ionomer cement. Thevadass KP, et al. **Biomaterials** 1996 Feb; 17(4):425–9

Uptake and release of fluoride by saliva–coated glass ionomer cement. Damen JJ, et al. **Caries Res** 1996;30(6):454–7

Resin–modified glass ionomer cements: fluoride release and influence on Streptococcus mutans growth. Friedl KH, et al. **Eur J Oral Sci** 1997 Feb;105(1):81–5

Effect of surface coatings on flexural properties of glass ionomers. Miyazaki M, et al. **Eur J Oral Sci** 1996 Oct–Dec; 104(5–6):600–4

Comparison of two– and three–body wear of glass–ionomers and composites. Pelka M, et al. **Eur J Oral Sci** 1996 Apr; 104(2 (Pt 1)):132–7

Compomers vs. resin–reinforced glass ionomers. Christensen GJ. **J Am Dent Assoc** 1997 Apr;128(4):479–80

SEM observations of the reactions of the components of a light–activated glass polyalkenoate (ionomer) cement on bovine dentine. Titley KC, et al. **J Dent** 1996 Nov; 24(6):411–6

Comparative physico–mechanical characterization of new hybrid restorative materials with conventional glass–ionomer and resin composite restorative materials. Gladys S, et al. **J Dent Res** 1997 Apr;76(4):883–94

Variability in cytotoxicity and fluoride release of resin–modified glass–ionomer cements. Kan KC, et al. **J Dent Res** 1997 Aug;76(8):1502–7

IR and NMR analyses of hardening and maturation of glass–ionomer cement. Matsuya S, et al. **J Dent Res** 1996 Dec;75(12):1920–7

The effects of maturity and dehydration shrinkage on resin–modified glass–ionomer restorations. Sidhu SK, et al. **J Dent Res** 1997 Aug;76(8):1495–501

In vitro effects of alcohol–containing and alcohol–free mouthrinses on microhardness of some restorative materials. Gürgan S, et al. **J Oral Rehabil** 1997 Mar; 24(3):244–6

Radiopacity of glass ionomer materials. Skartveit L, et al. **J Oral Rehabil** 1996 Jan;23(1):1–4

Water sorption and solubility of resin–modified polyalkenoate cements. Yap A, et al. **J Oral Rehabil** 1997 Apr;24(4):310–4

Reinforced glass–ionomer cements: the influence of conditioners on marginal leakage. Yap AU, et al. **J Oral Rehabil** 1997 Jun;24(6):477–81

An in vitro microleakage study of the 'bonded–base' restorative technique. Yap AU, et al. **J Oral Rehabil** 1997 Mar;24(3):230–6

Comparative wear ranking of dental restorative materials utilizing different wear simulation modes. Yap AU, et al. **J Oral Rehabil** 1997 Aug;24(8):574–80

Compomers—a new bracket bonding generation in orthodontics? Eberhard H, et al. **J Orofac Orthop** 1997 Feb;58(1):62–9 **(Eng, Ger)**

Light–cured glass ionomer cement as a bracket adhesive with different types of enamel conditioners. Süssenberger U, et al. **J Orofac Orthop** 1997;58(3):174–80 **(Eng, Ger)**

Influence of enamel conditioning on bond strength of resin–modified glass ionomer restorative materials and polyacid–modified composites. Attin T, et al. **J Prosthet Dent** 1996 Jul;76(1):29–33

The effect of various base/core materials on the setting of a polyvinyl siloxane impression material. Moon MG, et al. **J Prosthet Dent** 1996 Dec;76(6):608–12

Radiopacity of resin–modified glass ionomer liners and bases. Shah PM, et al. **J Prosthet Dent** 1997 Mar;77(3):239–42

An in vitro comparison of four surface preparation techniques for veneering a compomer to stainless steel. Salama FS, et al. **Pediatr Dent** 1997 May–Jun;19(4):267–72

In vitro comparative fluoride release, and weight and volume change in light–curing and self–curing glass ionomer materials. Wandera A, et al. **Pediatr Dent** 1996 May–Jun; 18(3):210–4

[Evaluation of the long–term release of fluorides from type II glass ionomer cements with conventional setting reactions] De Moor R, et al. **Rev Belge Med Dent** 1996; 51(1):22–35 (Eng. Abstr.) **(Fre)**

[The formulation of glass ionomer cements and the amount of fluoride] De Moor R. **Rev Belge Med Dent** 1996; 51(1):9–21 (33 ref.) (Eng. Abstr.) **(Fre)**

[Characterization of glass ionomer cements containing resin] Gladys S, et al. **Rev Belge Med Dent** 1996;51(1):36–53 (24 ref.) (Eng. Abstr.) **(Fre)**

HISTORY

A hard decade's work: steps in the invention of the glass–ionomer cement. Wilson AD. **J Dent Res** 1996 Oct; 75(10):1723–7

PHARMACOKINETICS

Inhibitive effect of a resin–modified glass ionomer cement

GLASS IONOMER CEMENTS

on remote enamel artificial caries. Tantbirojn D, et al. **Caries Res** 1997;31(4):275–80

PHARMACOLOGY

Pulp response in primary teeth with deep residual caries treated with silver fluoride and glass ionomer cement ('atraumatic' technique) [see comments] Gotjamanos T. **Aust Dent J** 1996 Oct;41(5):328–34. Comment in: Aust Dent J 1997 Feb;42(1):66–7.

Immediate implantation of glass-ionomer cement granules increases osteogenesis during rat alveolar wound healing. Brentegani LG, et al. **J Nihon Univ Sch Dent** 1996 Dec; 38(3–4):141–5

In vitro evaluation of antibacterial effects of photo-cured glass ionomer liners and dentin bonding agents during setting. Fraga RC, et al. **J Prosthet Dent** 1996 Nov; 76(5):483–6

RADIATION EFFECTS

Morphological changes induced by short pulse hydrogen fluoride laser radiation on dental hard tissue and restorative materials. Patel BC, et al. **Lasers Surg Med** 1997;21(1):1–6

Effects of uncontrolled outdoor storage on the polymerization, manipulation, and appearance of visible light-cured composite resin and resin-modified glass ionomer materials. Fallo GJ, et al. **Mil Med** 1996 May; 161(5):290–3

STANDARDS

Depth microhardness of glass ionomer cements. Dupuis V, et al. **Biomaterials** 1996 Jan;17(1):71–4

Resin-modified glass ionomer cements: a comparison of water sorption characteristics. Yap AU. **Biomaterials** 1996 Oct;17(19):1897–900

THERAPEUTIC USE

An in vitro microleakage study of three restorative techniques for Class II restorations in posterior teeth. Yap AU, et al. **Biomaterials** 1996 Nov;17(21):2031–5

Atraumatic restorative treatment and glass-ionomer sealants in a school oral health programme in Zimbabwe: evaluation after 1 year. Frencken JE, et al. **Caries Res** 1996; 30(6):428–33

Inhibitive effect of a resin-modified glass ionomer cement on remote enamel artificial caries. Tantbirojn D, et al. **Caries Res** 1997;31(4):275–80

Bone replacement by ionomer cement in osteoplastic frontal sinus operations. Weber A, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S162–4

Longevity and cariostatic effects of everyday conventional glass-ionomer and amalgam restorations in primary teeth: three-year results. Qvist V, et al. **J Dent Res** 1997 Jul; 76(7):1387–96

Remineralization of natural carious lesions with a glass ionomer cement. Hatibovic-Kofman S, et al. **Swed Dent J** 1997;21(1–2):11–7

TOXICITY

Biocompatibility studies on glass ionomer cements by primary cultures of human osteoblasts. Oliva A, et al. **Biomaterials** 1996 Jul;17(13):1351–6

Effects of ionomer cement on guinea pig cochleas. Kobayashi T, et al. **Ear Nose Throat J** 1997 Apr;76(4):223–6, 228, 230

Variability in cytotoxicity and fluoride release of resin-modified glass-ionomer cements. Kan KC, et al. **J Dent Res** 1997 Aug;76(8):1502–7

Comparison of the intraosseous biocompatibility of Vitremer and super EBA by implantation into the mandible of rabbits. Tassery H, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 May;83(5):602–8

GLASSES see **EYEGLASSES**

GLAUCARUBIN

ANALOGS & DERIVATIVES

Indonesian medicinal plants. XVII. Characterization of quassinoids from the stems of Quassia indica. Kitagawa I, et al. **Chem Pharm Bull (Tokyo)** 1996 Nov;44(11):2009–14

Inhibitory effects of quassinoid derivatives on Epstein-Barr virus early antigen activation. Rahman S, et al. **Chem Pharm Bull (Tokyo)** 1997 Apr;45(4):675–7

Bruceine B, a potent inhibitor of leukocyte-endothelial cell adhesion. Utoguchi N, et al. **Inflammation** 1997 Apr; 21(2):223–33

Two new quassinoids, ailantinols A and B, and related compounds from Ailanthus altissima. Kubota K, et al. **J Nat Prod** 1996 Jul;59(7):683–6

Antifertility activity of Quassia amara in male rats – in vivo study. Raji Y, et al. **Life Sci** 1997;61(11):1067–74

PHARMACOLOGY

Quassinoids as inhibitors of Epstein-Barr virus early antigen activation. Kubota K, et al. **Cancer Lett** 1997 Feb 26; 113(1–2):165–8

GLAUCOMA

see related
FILTERING SURGERY
SCLEROSTOMY
TRABECULECTOMY

Report of the joint meeting of the Japanese Glaucoma Society and the American Glaucoma Society, Vancouver, British Columbia, July 30–August 2, 1996. Skuta GL. **Arch Ophthalmol** 1996 Oct;114(10):1297

A rare case of McCune-Albright syndrome associated with glaucoma retinal degeneration and arteriovenous malformations [letter] Scuderi G, et al. **Eye** 1996;10 (Pt 6):752–5

Selected papers from the 5th Congress of the European Glaucoma Society. Paris, France, 20–22 June 1996. **Int Ophthalmol** 1996–97;20(1–3):1–163

Glaucoma--a clinicolegal review. Classé JG. **J Am Optom Assoc** 1997 Jun;68(6):389–94 (21 ref.)

Glaucomatologists should be certified [letter; comment] Kay JS. **J Glaucoma** 1997 Jun;6(3):197. Comment on: J Glaucoma 1996 Dec;5(6):365–6.

Should glaucomatologists be certified? [editorial] [see comments] Van Buskirk EM. **J Glaucoma** 1996 Dec; 5(6):365–6. Comment in: J Glaucoma 1997 Jun;6(3):197.

Development of the scale of quality of life for diseases with visual impairment. Yu Q, et al. **Yen Ko Hsueh Pao** 1996 Mar;12(1):36–9

[Glaucoma. A progressive optic neuropathy (editorial)] Thygesen J, et al. **Ugeskr Laeger** 1996 Sep 23;158(39):5415 **(Dan)**

CHEMICALLY INDUCED

[Ophthalmological follow-up of patients receiving corticotherapy] Haus C, et al. **Rev Med Liege** 1997 Mar; 52(3):155–8 **(Fre)**

CLASSIFICATION

Classifying visual field data. Hilton S, et al. **Stat Med** 1996 Jul 15;15(13):1349–64

COMPLICATIONS

Lack of association between hearing loss and glaucoma. Shapiro A, et al. **Am J Otol** 1997 Mar;18(2):172–4

Early diagnosis of functional damage in patients with glaucoma [editorial; comment] Caprioli J. **Arch Ophthalmol** 1997 Jan;115(1):113–4 (31 ref.). Comment on: Arch Ophthalmol 1997 Jan;115(1):26–33.

Detection of glaucomatous optic disc hemorrhages by confocal scanning laser tomography [letter] Dichtl A, et al. **Arch Ophthalmol** 1997 Jun;115(6):800–1

Optic disc haemorrhages and vascular abnormalities in a glaucoma population. Barry CJ, et al. **Aust N Z J Ophthalmol** 1997 May;25(2):137–44

The outcome of 2.3 mm incision combined phacoemulsification, trabeculectomy and lens implantation of non-foldable intraocular lenses. Jayamanne DG, et al. **Eye** 1997;11 (Pt 1):91–4

The significance of optic disc hemorrhages in glaucoma. Gordon J, et al. **J Glaucoma** 1997 Feb;6(1):62–4 (15 ref.)

Filtration surgery in a young, aphakic, high myope. II. Management of postoperative choroidal hemorrhage. Shabto U, et al. **J Glaucoma** 1996 Apr;5(2):120–6

Glaucoma blindness in African Americans: have 55 years of therapies, technologies, and talent altered blindness rates? Merritt JC. **J Natl Med Assoc** 1996 Dec; 88(12):809–19 (56 ref.)

Color vision deficit in normal-tension glaucoma eyes. Yamagami J, et al. **Jpn J Ophthalmol** 1995;39(4):384–9

Glaucoma: a preventable cause of blindness. Higginbotham EJ. **Md Med J** 1997 Sep;46(8):412–4

Possible mechanism of exacerbating cataract formation in cataractous human lens capsules induced by systemic hypertension or glaucoma. Lee SM, et al. **Ophthalmic Res** 1997;29(2):83–90

Management of coexisting corneal disease and glaucoma by combined penetrating keratoplasty and trabeculectomy with mitomycin-C. Figueiredo RS, et al. **Ophthalmic Surg Lasers** 1996 Nov;27(11):903–9

Foveal color and luminance sensitivity losses in glaucoma. Kelly JP, et al. **Ophthalmic Surg Lasers** 1996 Mar; 27(3):179–87

Vitreous opacities in phacolytic glaucoma. Thomas R, et al. **Ophthalmic Surg Lasers** 1996 Oct;27(10):839–43

Incidence of retinal vein occlusion at the Glaucoma Clinic of Hiroshima University. Hirota A, et al. **Ophthalmologica** 1997;211(5):288–91

Early changes in optic disc compliance and surface position in experimental glaucoma. Burgoyne CF, et al. **Ophthalmology** 1995 Dec;102(12):1800–9

Central visual field changes associated with acquired pits of the optic nerve. Cashwell LF, et al. **Ophthalmology** 1995 Sep;102(9):1270–8

Comparative study of brain magnetic resonance imaging findings in patients with low-tension glaucoma and control subjects. Ong K, et al. **Ophthalmology** 1995 Nov; 102(11):1632–8

Evaluation of coexisting optic nerve head drusen and glaucoma with optical coherence tomography. Roh S, et al. **Ophthalmology** 1997 Jul;104(7):1138–44

Glaucoma in phakomatosis pigmentovascularis. Teekhasaenee C, et al. **Ophthalmology** 1997 Jan; 104(1):150–7 (66 ref.)

Red eye: avoid the pitfalls. Duguid G. **Practitioner** 1997 Apr; 241(1573):188–90, 192, 194–5

Glaucoma associated with uveitis. Moorthy RS, et al. **Surv Ophthalmol** 1997 Mar-Apr;41(5):361–94 (368 ref.)

[Glaucoma and risk factors. Comparative study of cardiovascular risk factors in primary open-angle glaucoma, normal-pressure glaucoma and simple ocular hypertension] Mermoud A. **Rev Med Suisse Romande** 1996 Jan;116(1):51–8 (Eng. Abstr.) **(Fre)**

[Microsurgery of cataracts in glaucoma] Izák M, et al. **Cesk Slov Oftalmol** 1997 Jun;53(3):174–80 (Eng. Abstr.) **(Slo)**

CONGENITAL

CHARGE association with congenital glaucoma due to maldevelopment of the anterior chamber angle. Katai N, et al. **Acta Ophthalmol Scand** 1997 Jun;75(3):322–4

Molecular genetics of the glaucomas: mapping of the first five "GLC" loci [editorial; comment] Raymond V. **Am J Hum Genet** 1997 Feb;60(2):272–7 (44 ref.). Comment on: Am J Hum Genet 1997 Feb;60(2):296–304.

A second locus (GLC3B) for primary congenital glaucoma (Buphthalmos) maps to the 1p36 region. Akarsu AN, et al. **Hum Mol Genet** 1996 Aug;5(8):1199–203

Time of diagnosis, reoperations and long-term results of goniotomy in the treatment of primary congenital glaucoma: a clinical study. Gramer E, et al. **Int Ophthalmol** 1996–97;20(1–3):117–23

A gene for primary congenital glaucoma is not linked to the locus on chromosome 1q for autosomal dominant juvenile-onset open angle glaucoma. Anderson KL, et al. **J Glaucoma** 1996 Dec;5(6):416–21

Endoscopic goniotomy for congenital glaucoma. Medow NB, et al. **J Pediatr Ophthalmol Strabismus** 1997 Jul-Aug; 34(4):258–9

Ultrasonographic findings of the optic disc in congenital glaucoma. Snir M, et al. **Ophthalmic Surg Lasers** 1996 Dec; 27(12):1039–40

Mitomycin C-augmented trabeculectomy in refractory congenital glaucoma. Mandal AK, et al. **Ophthalmology** 1997 Jun;104(6):996–1001; discussion 1002–3

DIAGNOSIS

Ciliary body band width as an indicator of goniodysgenesis. Tawara A, et al. **Am J Ophthalmol** 1996 Dec; 122(6):790–800

Association of visual field, cup-disc ratio, and magnetic resonance imaging of optic chiasm. Iwata F, et al. **Arch Ophthalmol** 1997 Jun;115(6):729–32

Assessing for glaucoma in general practice. Jackson C, et al. **Aust Fam Physician** 1996 Sep;25(9):1405–8, 1410–1

Image analysis in glaucoma [editorial; comment] Cooper RL. **Aust N Z J Ophthalmol** 1997 Aug;25(3):187–8. Comment on: Aust N Z J Ophthalmol 1997 Aug;25(3):217–20.

Use of a confocal laser scanning ophthalmoscope to detect glaucomatous cupping of the optic disc [see comments] Cucevic V, et al. **Aust N Z J Ophthalmol** 1997 Aug; 25(3):217–20. Comment in: Aust N Z J Ophthalmol 1997 Aug;25(3):187–8.

Catching glaucoma [letter] Chapman FM, et al. **BMJ** 1997 Mar 29;314(7085):976–7

Time to look again at sight tests [editorial] [see comments] Wormald R, et al. **BMJ** 1997 Jan 25;314(7076):245. Comment in: BMJ 1997 May 3;314(7090):1349.

Visual fields by numbers' for the detection of glaucoma [letter; comment] Damato BE, et al. **Br J Ophthalmol** 1997 Jan;81(1):93. Comment on: Br J Ophthalmol 1996 May;80(5):385–6. Comment on: Br J Ophthalmol 1996 May;80(5):389–93.

Glaucomatous visual field defects: their characteristics and how to detect them. Kitazawa Y, et al. **Clin Neurosci** 1997; 4(5):279–83 (29 ref.)

Motion-onset visual evoked potentials improve the diagnosis of glaucoma. Kubová Z, et al. **Doc Ophthalmol** 1996–97; 92(3):211–21

Screening for glaucoma. Why is the disease underdetected? Tuck MW, et al. **Drugs Aging** 1997 Jan;10(1):1–9 (67 ref.)

Mean intraocular pressure in Ghanaians. Ntim-Amponsah CT. **East Afr Med J** 1996 Aug;73(8):516–8

Influence of the "fatigue effect" on the mean deviation measurement in perimetry. Gonzalez de la Rosa M, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):29–34

In-office screening for age-related hearing and vision loss. Abyad A. **Geriatrics** 1997 Jun;52(6):45–6, 51–4, 57

New device for artificial increasing intraocular pressure. Preussner PR, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Nov;234(11):683–7

Adenoma of nonpigmented epithelium of the ciliary body presenting as anterior uveitis and glaucoma: a case report. Biswas J, et al. **Indian J Ophthalmol** 1995 Sep;43(3):137–40

Optic disc evaluation in glaucoma. Sekhar GC. **Indian J Ophthalmol** 1996 Dec;44(4):235–9 (8 ref.)

Assessment of diagnostic criteria in management of infantile glaucoma. An analysis of tonometry, optic disc cup, corneal diameter and axial length. Dietlein TS, et al. **Int Ophthalmol** 1996–97;20(1–3):21–7

Nerve fiber analysis and optic disc parameters with the glaucoma-scope. Lachkar Y, et al. **Int Ophthalmol** 1996–97; 20(1–3):33–8

Morphometric analysis of the optic disc surface. The level of smoothness as a diagnostic parameter for glaucoma. Rolando M, et al. **Int Ophthalmol** 1996–97;20(1–3):15–20
Screening for glaucomatous visual field loss with frequency-doubling perimetry. Johnson CA, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):413–25
Short wavelength automated perimetry (SWAP) in ophthalmic practice. Demirel S, et al. **J Am Optom Assoc** 1996 Aug;67(8):451–6
Glaucoma and the role of new technologies [editorial] Fingeret M. **J Am Optom Assoc** 1996 Aug;67(8):444–6
An overview of the Heidelberg Retina Tomograph. Malinovsky VE. **J Am Optom Assoc** 1996 Aug;67(8):457–67
Ranked-segment distribution curve for interpretation of optic nerve topography. Asawaphureekorn S, et al. **J Glaucoma** 1996 Apr;5(2):79–90
Interobserver and intraobserver variability in the detection of glaucomatous progression of the optic disc. Coleman AL, et al. **J Glaucoma** 1996 Dec;5(6):384–9
When seeing isn't believing [editorial] Van Buskirk EM. **J Glaucoma** 1997 Aug;6(4):199–200
The ability of Medmont M600 automated perimetry to detect threats to fixation. Zhang L, et al. **J Glaucoma** 1997 Aug; 6(4):259–62
The diagnostic outcome of new glaucoma referrals. Bell RW, et al. **Ophthalmic Physiol Opt** 1997 Jan;17(1):3–6
Accuracy of referral to a glaucoma clinic. Bell RW, et al. **Ophthalmic Physiol Opt** 1997 Jan;17(1):7–11
Ocular hypertension and central corneal thickness. Argus WA. **Ophthalmology** 1995 Dec;102(12):1810–2
Determining progressive visual field loss in serial Humphrey visual fields. Birch MK, et al. **Ophthalmology** 1995 Aug; 102(8):1227–34; discussion 1234–5
The effect of optic disc size on diagnostic precision with the Heidelberg retina tomograph. Iester M, et al. **Ophthalmology** 1997 Mar;104(3):545–8
Evaluation of coexisting optic nerve head drusen and glaucoma with optical coherence tomography. Roh S, et al. **Ophthalmology** 1997 Jul;104(7):1138–44
Classifying visual field data. Hilton S, et al. **Stat Med** 1996 Jul 15;15(13):1349–64
[The diagnosis and treatment of glaucoma] Vesti E. **Duodecim** 1995;111(11):1059–62 (6 ref.) **(Fin)**
[Early diagnosis of glaucoma with pattern-ERG] Uclés P, et al. **J Fr Ophtalmol** 1997;20(2):90–6 (Eng. Abstr.) **(Fre)**
[Study of electroretinogram components using pattern inversion in the early diagnosis of glaucoma] Almárcegui Lafita C, et al. **Neurophysiol Clin** 1997;27(2):109–15 (Eng. Abstr.) **(Fre)**
[Clinical discrepancy between Schiötz and Perkins Tonometry in juvenile glaucoma] Dietlein TS, et al. **Klin Monatsbl Augenheilkd** 1996 Nov;209(5):299–303; discussion 298 (Eng. Abstr.) **(Ger)**
[Topometry of the optic papilla with the glaucoma-scope] Dannheim F, et al. **Ophthalmologe** 1996 Oct;93(5):535–8 (Eng. Abstr.) **(Ger)**
[Clinical calibration and in vitro evaluation of the validity of 2 microprocessor controlled tonometers] Deutsch C, et al. **Ophthalmologe** 1996 Oct;93(5):544–8 (Eng. Abstr.) **(Ger)**
[Contact glass tonometer] Kanngiesser H, et al. **Ophthalmologe** 1996 Oct;93(5):549–51 (Eng. Abstr.) **(Ger)**
[Informative value of psychophysical examinations aside from conventional white-white perimetry] Lachenmayr B. **Ophthalmologe** 1996 Aug;93(4):389–95 (81 ref.) (Eng. Abstr.) **(Ger)**
[Glaucoma and aircraft pilot fitness] Schwartz R, et al. **Ophthalmologe** 1996 Feb;93(1):76–9 (18 ref.) (Eng. Abstr.) **(Ger)**
[Can the extent of glaucoma damage be quantified with laser polarimetry by in vivo measurement of retinal nerve fiber density? A clinical study] Serguhn S, et al. **Ophthalmologe** 1996 Oct;93(5):527–34 (Eng. Abstr.) **(Ger)**
[Perimetry with normal Octopus technique and Weber 'dynamic' technique. Initial results with reference to reproducibility of measurements in glaucoma patients] Zulauf M, et al. **Ophthalmologe** 1996 Aug;93(4):420–7 (Eng. Abstr.) **(Ger)**
["Neural capacity" index correlates with neuroretinal rim area of glaucomatous eyes better than light sensitivity] Kono Y, et al. **Nippon Ganka Gakkai Zasshi** 1996 Mar; 100(3):223–9 (Eng. Abstr.) **(Jpn)**
[Functional topography of the on and off channels of retinal cone system in diagnosis of initial glaucoma] Areféva IA, et al. **Vestn Oftalmol** 1997 Mar-Apr;113(2):28–30 (Eng. Abstr.) **(Rus)**
[Screening for glaucoma in diabetic patients (letter; comment)] Buitrago F, et al. **Aten Primaria** 1996 Oct 31; 18(7):405–6. Comment on: Aten Primaria 1996 Jan;17(1):18–22. **(Spa)**

DRUG THERAPY

Decrease of intraocular pressure after subconjunctival injection of mitomycin in human glaucoma [letter; comment] Gebhardt DO. **Arch Ophthalmol** 1996 Oct; 114(10):1298. Comment on: Arch Ophthalmol 1995 May;113(5):582–5.
A clinical trial of MK-507, Trusopt, for raised intraocular pressure—the Australian experience. Gillies WE, et al. **Aust N Z J Ophthalmol** 1996 May;24(2):111–5
5-FU loaded pHEMA drainage implants for glaucoma-filtering surgery: device design and in vitro release kinetics. Gökce M, et al. **Biomaterials** 1996 May; 17(9):941–9
The efficacy of dorzolamide, a topical carbonic anhydrase inhibitor, in combination with timolol in the treatment of patients with open-angle glaucoma and ocular hypertension. Hartenbaum D. **Clin Ther** 1996 May-Jun; 18(3):460–5
Use of bifemelane hydrochloride in improving and maintaining the visual field of patients with glaucoma. Shigemitsu T, et al. **Clin Ther** 1996 Jan-Feb;18(1):106–13
Topical cyclosporin A in the management of postkeratoplasty glaucoma. Perry HD, et al. **Cornea** 1997 May;16(3):284–8
Dorzolamide. A review of its pharmacology and therapeutic potential in the management of glaucoma and ocular hypertension. Balfour JA, et al. **Drugs Aging** 1997 May; 10(5):384–403 (81 ref.)
Unoprostone (isopropyl unoprostone) [published erratum appears in Drugs Aging 1996 Nov;9(5):351] Haria M, et al. **Drugs Aging** 1996 Sep;9(3):213–8; discussion 219–20
Fixed combination of carteolol and pilocarpine eye-drops: a double-blind randomized cross-over trial versus carteolol alone on intra-ocular pressure. The Study Group. Hostyn P, et al. **Eur J Ophthalmol** 1996 Jan-Mar;6(1):17–20
Levocabastine eye drops do not affect accommodative capacity in volunteers and intraocular pressure in glaucoma patients. Wolf S, et al. **Eur J Ophthalmol** 1995 Oct-Dec; 5(4):225–9
The effect of latanoprost 0.005% once daily versus 0.0015% twice daily on intraocular pressure and aqueous humour protein concentration in glaucoma patients. A randomized, double-masked comparison with timolol 0.5%. Diestelhorst M, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jan; 235(1):20–6
Effect of haloperidol, a dopamine antagonist on aqueous humour dynamics in experimental glaucoma. Khosla P, et al. **Indian J Exp Biol** 1996 Nov;34(11):1152–4
Evaluation of haloperidol, a dopamine antagonist, on intraocular pressure in experimental glaucoma. Khosla P, et al. **Indian J Exp Biol** 1996 Jun;34(6):580–1
Effects of topically applied prostaglandin F2 alpha tromethamine salt on glaucomatous human eyes. Erkiliç K, et al. **Int J Clin Pharmacol Res** 1996;16(2-3):51–5
The effects of long-term topical glaucoma medication on conjunctival impression cytology. Turaçli E, et al. **Int Ophthalmol** 1997;21(1):27–33
New drug therapies for glaucoma [editorial] Bartlett JD. **J Am Optom Assoc** 1996 Nov;67(11):648–53 (26 ref.)
Ocular tolerability of timolol in Gelrite in young glaucoma patients. Nelson MD, et al. **J Am Optom Assoc** 1996 Nov; 67(11):659–63
Temporal variation in the effects of ophthalmic timolol on cardiovascular and respiratory functions in healthy men. Umetsuki MH, et al. **J Clin Pharmacol** 1997 Jan;37(1):58–63
Effects of apraclonidine on short-term outcome of glaucoma surgery. Azuara-Blanco A, et al. **J Glaucoma** 1996 Apr; 5(2):117–9
Neuroprotection: the next breakthrough in glaucoma? Proceedings of the Third Annual Optic Nerve Rescue and Restoration Think Tank. Chew SJ, et al. **J Glaucoma** 1997 Aug;6(4):263–6
The role of mitomycin treatment duration and previous intraocular surgery on the success of trabeculectomy surgery. Cohen JS, et al. **J Glaucoma** 1997 Feb;6(1):3–9
Low-dose mitomycin C trabeculectomy in patients with advanced glaucoma. Costa VP, et al. **J Glaucoma** 1996 Jun; 5(3):193–9
Trusopt, a topical carbonic anhydrase inhibitor. Donohue EK, et al. **J Glaucoma** 1996 Feb;5(1):68–74 (79 ref.)
Brimonidine: a new alpha2-adrenoreceptor agonist for glaucoma treatment. Greenfield DS, et al. **J Glaucoma** 1997 Aug;6(4):250–8 (52 ref.)
Current use of ophthalmic beta blockers. Gross RL, et al. **J Glaucoma** 1997 Jun;6(3):188–91 (29 ref.)
Systemic calcium channel blockers and glaucoma. Kanellopoulos AJ, et al. **J Glaucoma** 1996 Oct;5(5):357–62 (44 ref.)
Echothiophate iodide induced transient hyper- and hypothyroidism. Mezer E, et al. **J Glaucoma** 1996 Jun; 5(3):191–2
Topical prostaglandins for glaucoma therapy. Wyse TB, et al. **J Glaucoma** 1997 Jun;6(3):180–7 (77 ref.)
New approaches to antiglaucoma therapy. Sugrue MF. **J Med Chem** 1997 Aug 29;40(18):2793–809 (243 ref.)
Effects on intraocular pressure and pupil size in glaucomatous beagles after topical pilocarpine instilled with standard (pH 5) and buffer-tip (pH 7) droptainers. Gelatt KN, et al. **J Ocul Pharmacol Ther** 1997 Apr;13(2):95–104
Effects of pilocarpine and other antiglaucoma drugs on cultured human Tenon's fibroblast cells. Wu KY, et al. **J Ocul Pharmacol Ther** 1997 Feb;13(1):13–21
Continuous intraocular pressure measurement by telemetry in alpha-chymotrypsin-induced glaucoma model in the rabbit: effects of timolol, dorzolamide, and epinephrine. Percicot CL, et al. **J Pharmacol Toxicol Methods** 1996 Dec; 36(4):223–8
The role of initial 5-fluorouracil trabeculectomy in primary glaucoma. Dastur YK, et al. **J Postgrad Med** 1994 Oct-Dec; 40(4):197–201
Eye drops and lethargy. Vahidassr MD, et al. **J R Soc Med** 1997 Mar;90(3):155
A topical prostaglandin for glaucoma. **Med Lett Drugs Ther** 1996 Nov 8;38(987):100–1
Brimonidine—an alpha 2-agonist for glaucoma. **Med Lett Drugs Ther** 1997 Jun 6;39(1002):54–5
Prostaglandin analogues: a new classification of ocular hypotensive agents used in the treatment of glaucoma [news] Gallucci GM. **Nurse Pract** 1996 Nov;21(11):144–6
A comparison of dorzolamide and timolol in patients with pseudoexfoliation and glaucoma or ocular hypertension. Heijl A, et al. **Ophthalmology** 1997 Jan;104(1):137–42
Canine retinal arterial and arteriolar dilatation induced by nipradilol, a possible glaucoma therapeutic. Okamura T, et al. **Pharmacology** 1996 Nov;53(5):302–10
Eye drops—the hidden poison. Jones AL, et al. **Scott Med J** 1996 Aug;41(4):110–2 (32 ref.)
Prostaglandins: a new approach to glaucoma management with a new, intriguing side effect. Bito LZ. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S1–14 (74 ref.)
Initial clinical studies with prostaglandins and their analogues. Camras CB, et al. **Surv Ophthalmol** 1997 Feb; 41 Suppl 2:S61–8 (52 ref.)
The lack of respiratory effects of the ocular hypotensive drug latanoprost in patients with moderate-steroid treated asthma. Hedner J, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S111–5
The additive intraocular pressure-lowering effect of latanoprost in combined therapy with other ocular hypotensive agents. Hoyng PF, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S93–8 (43 ref.)
New agents for the treatment of glaucoma. Hill R. **West J Med** 1997 Feb;166(2):140
[Glaucoma. Current problems. Continuing education courses at the Ophthalmologic Clinic of the Eppendorf University Hospital, 9 December 1995] **Klin Monatsbl Augenheilkd** 1996 Feb;208(2 Suppl):1–4 **(Ger)**
[Effectiveness of dorzolamide as added therapy in glaucoma patients with maximum tolerated drug therapy. A pilot study] Denk PO, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):360–4 (Eng. Abstr.) **(Ger)**
[Use of calcium antagonists in ophthalmology (editorial)] Pillunat LE. **Klin Monatsbl Augenheilkd** 1996 Jun; 208(6):A1–2 **(Ger)**
[Effect and side effects of apraclonidine] Stewart WC. **Klin Monatsbl Augenheilkd** 1996 Jul;209(1):A7–13 (53 ref.) (Eng. Abstr.) **(Ger)**
[Local carbonic anhydrase inhibitor dorzolamide: development and properties] Pfeiffer N. **Ophthalmologe** 1996 Feb;93(1):103–18 (9 ref.) **(Ger)**
[Topical carbonic anhydrase inhibitors for glaucoma] Geyer O, et al. **Harefuah** 1996 May 15;130(10):705–7 (20 ref.) **(Heb)**
[Intraocular smooth muscle physiology relating to pathogenesis and therapy of glaucoma] Suzuki R. **J Smooth Muscle Res** 1996 Oct;32(5):175–94 (68 ref.) **(Jpn)**
[Effect of nipradilol on aqueous flow in glaucoma patients treated with timolol] Nagataki S, et al. **Nippon Ganka Gakkai Zasshi** 1997 Mar;101(3):252–6 (Eng. Abstr.) **(Jpn)**
[Recent development in drugs working on ocular autonomic nervous system (editorial)] Yoshimura N. **Nippon Ganka Gakkai Zasshi** 1997 Mar;101(3):199–200 **(Jpn)**
[Adverse effects of local use of beta-blockaders in glaucoma. A literature review and a survey of reports to the adverse drug reaction authority 1986–95] Nygaard HA, et al. **Tidsskr Nor Laegeforen** 1997 May 30;117(14):2019–21 (31 ref.) (Eng. Abstr.) **(Nor)**
[Efficacy of pilocarpine and timolol maleate combination in therapy of glaucoma] Egorov EA, et al. **Vestn Oftalmol** 1996 Jul-Aug;112(3):5–7 (Eng. Abstr.) **(Rus)**
[Use of cytostatics in multimodal treatment of glaucoma] Potapova EA. **Vestn Oftalmol** 1996 Sep-Oct;112(5):38–40 (65 ref.) **(Rus)**
[5-fluorouracil in the treatment of postoperative glaucoma] Kuljača Z, et al. **Srp Arh Celok Lek** 1996 Jul-Aug; 124(7-8):190–2 (Eng. Abstr.) **(Sec)**

ECONOMICS

Cost of beta-blocker therapy [editorial; comment] Zimmerman TJ. **Arch Ophthalmol** 1997 Jul;115(7):914. Comment on: Arch Ophthalmol 1997 Jul;115(7):853–6.

ENZYMOLOGY

Nitric oxide synthase in the human glaucomatous optic nerve head. Neufeld AH, et al. **Arch Ophthalmol** 1997 Apr; 115(4):497–503

EPIDEMIOLOGY

Epidemiology of glaucoma in northern Europe. Ringvold A. **Eur J Ophthalmol** 1996 Jan-Mar;6(1):26–9 (14 ref.)
Glaucoma after vitreo-retinal surgery with silicone oil injection: epidemiologic aspects. Montanari P, et al. **Int Ophthalmol** 1996–97;20(1–3):29–31
Prevalence of glaucoma after surgery for PHPV and infantile cataracts. Johnson CP, et al. **J Pediatr Ophthalmol Strabismus** 1996 Jan-Feb;33(1):14–7
Prevalence of glaucoma in Ponza, Italy: a comparison with other studies. Cedrone C, et al. **Ophthalmic Epidemiol** 1997 Jun;4(2):59–72

[Intraocular pressure in a young Cameroonian population] Bella-Hiag AL, et al. **J Fr Ophtalmol** 1996;19(10):585-90 (Eng. Abstr.) **(Fre)**

ETIOLOGY

Thyroid disease, a risk factor for optic neuropathy mimicking normal-tension glaucoma. Jämsén K.
Acta Ophthalmol Scand 1996 Oct;74(5):456-60

Growth retardation, alopecia, pseudoanodontia, and optic atrophy (GAPO syndrome) with congenital glaucoma. Mullaney PB, et al. **Arch Ophthalmol** 1997 Jul;115(7):940-1

Weill-Marchesani syndrome complicated by secondary glaucoma. Case management with surgical lens extraction. Taylor JN. **Aust N Z J Ophthalmol** 1996 Aug;24(3):275-8

Ocular manifestations of familial amyloidotic polyneuropathy type I: long-term follow up. Ando E, et al.
Br J Ophthalmol 1997 Apr;81(4):295-8

Blood pressure and glaucoma [editorial; comment] Fraser S, et al. **Br J Ophthalmol** 1996 Oct;80(10):858-9. Comment on: Br J Ophthalmol 1996 Oct;80(10):864-7.

Glaucomatous optic nerve cupping as an optic neuropathy. Anderson DR, et al. **Clin Neurosci** 1997;4(5):274-8 (37 ref.)

Progression of diabetic retinopathy and rubeotic glaucoma following cataract surgery. Sadiq SA, et al. **Eye** 1995;9 (Pt 6):728-38

Lens induced glaucomas--visual results and risk factors for final visual acuity. Prajna NV, et al.
Indian J Ophthalmol 1996 Sep;44(3):149-55

Glaucoma like defect on automated perimetry caused by cataract [published erratum appears in Indian J Ophthalmol 1996 Dec;44(4):190] Thomas R, et al.
Indian J Ophthalmol 1996 Sep;44(3):167-8

Incomplete posterior U.G.H. syndrome--different iatrogenic entity? Berger RR, et al. **Int Ophthalmol** 1995-96; 19(5):317-20

Steroid inhalers and glaucoma [news] **J Am Dent Assoc** 1997 May;128(5):554, 558

Prevalence of glaucoma after surgery for PHPV and infantile cataracts. Johnson CP, et al.
J Pediatr Ophthalmol Strabismus 1996 Jan-Feb;33(1):14-7

Childhood aphakic glaucoma [letter] Schulz E.
J Pediatr Ophthalmol Strabismus 1997 Jul-Aug;34(4):211

Corneal diameter in childhood aphakic glaucoma. Wallace DK, et al. **J Pediatr Ophthalmol Strabismus** 1996 Sep-Oct; 33(5):230-4

Uveitis-glaucoma-hyphema syndrome after posterior chamber intraocular lens implantation. Aonuma H, et al. **Jpn J Ophthalmol** 1997 Mar-Apr;41(2):98-100

A prospective study of ocular hypertension and glaucoma after pediatric cataract surgery. Egbert JE, et al.
Ophthalmology 1995 Jul;102(7):1098-101

Optic disc hemorrhages and glaucoma [letter; comment] Jack S, et al. **Ophthalmology** 1997 Apr;104(4):566-7. Comment on: Ophthalmology 1996 Jul;103(7):1014-24.

[Risk factors associated with glaucoma] Haefliger IO.
Klin Monatsbl Augenheilkd 1997 May;210(5):265-8 (12 ref.) (Eng. Abstr.) **(Fre)**

[Intraocular smooth muscle physiology relating to pathogenesis and therapy of glaucoma] Suzuki R.
J Smooth Muscle Res 1996 Oct;32(5):175-94 (68 ref.) **(Jpn)**

GENETICS

Closing in on the Rieger syndrome gene on 4q25: mapping translocation breakpoints within a 50-kb region. Datson NA, et al. **Am J Hum Genet** 1996 Dec;59(6):1297-305

Exclusion of epidermal growth factor and high-resolution physical mapping across the Rieger syndrome locus. Semina EV, et al. **Am J Hum Genet** 1996 Dec;59(6):1288-96

Ciliary body band width as an indicator of goniodysgenesis. Tawara A, et al. **Am J Ophthalmol** 1996 Dec; 122(6):790-800

Up-regulation of glial fibrillary acidic protein in the retina of primate eyes with experimental glaucoma. Tanihara H, et al. **Arch Ophthalmol** 1997 Jun;115(6):752-6

The genetics of complex ophthalmic disorders. Evans K, et al. **Br J Ophthalmol** 1996 Aug;80(8):763-8 (104 ref.)

The genetics of glaucoma: an update. Liu S, et al.
Can J Ophthalmol 1997 Jun;32(4):221-8 (69 ref.)

Spherophakia, nanophthalmia, hypoplastic ciliary body and glaucoma in brachydactyly-associated syndromes. Dietlein TS, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug; 234 Suppl 1:S187-92

A second locus (GLC3B) for primary congenital glaucoma (Buphthalmos) maps to the 1p36 region. Akarsu AN, et al. **Hum Mol Genet** 1996 Aug;5(8):1199-203

Recent advances in molecular genetics of glaucomas. Sarforazi M. **Hum Mol Genet** 1997;6(10):1667-77 (91 ref.)

Molecular genetics of glaucoma: current status. Alward WL, et al. **J Glaucoma** 1996 Aug;5(4):276-84 (98 ref.)

A gene for primary congenital glaucoma is not linked to the locus on chromosome 1q for autosomal dominant juvenile-onset open angle glaucoma. Anderson KL, et al. **J Glaucoma** 1996 Dec;5(6):416-21

Widening the view [news; comment] Meitinger T.
Nat Genet 1997 Mar;15(3):224-5. Comment on: Nat Genet 1997 Mar;15(3):236-46. Comment on: Nat Genet 1997 Mar;15(3):247-51.

Autosomal-dominant iridogoniodysgenesis and Axenfeld-Rieger syndrome are genetically distinct. Walter MA, et al. **Ophthalmology** 1996 Nov;103(11):1907-15

Clinical features of five pedigrees genetically linked to the juvenile glaucoma locus on chromosome 1q21-q31. Wiggs JL, et al. **Ophthalmology** 1995 Dec;102(12):1782-9

IMMUNOLOGY

[Immunological prognostication of the risk of cataract development after glaucoma surgery] Kurysheva NI, et al. **Vestn Oftalmol** 1997 Jan-Feb;113(1):8-11 (Eng. Abstr.) **(Rus)**

METABOLISM

Trabecular meshwork changes in glaucoma. Orsida BE, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):21-4

Effect of 5-methylurapidil, an alpha 1a-adrenergic antagonist and 5-hydroxytryptamine1a agonist, on aqueous humor dynamics in monkeys and rabbits. Wang RF, et al.
Curr Eye Res 1997 Aug;16(8):769-75

Changes in retinal dopaminergic cells and dopamine rhythmic metabolism during the development of a glaucoma-like disorder in quails. Dkhissi O, et al.
Invest Ophthalmol Vis Sci 1996 Oct;37(11):2335-44

Pharmacokinetics and intraocular pressure lowering effect of timolol preparations in rabbit eyes. Chiang CH, et al.
J Ocul Pharmacol Ther 1996 Winter;12(4):471-80

Glaucoma, capillaries and pericytes. 4. Beta-adrenergic activation of cultured retinal pericytes. Zschauer AO, et al. **Ophthalmologica** 1996;210(5):276-9

MICROBIOLOGY

Ocular involvement in tuberculoid leprosy--a case report. Daxecker F, et al. **Ophthalmologica** 1997;211(5):305-7

PATHOLOGY

The sensitivity and specificity of nerve fiber layer measurements in glaucoma as determined with scanning laser polarimetry. Tjon-Fo-Sang MJ, et al.
Am J Ophthalmol 1997 Jan;123(1):62-9

Ultrastructural changes in the trabecular meshwork of human eyes treated with corticosteroids. Johnson D, et al.
Arch Ophthalmol 1997 Mar;115(3):375-83

Selective nerve fibre loss in glaucoma: magnocellular or parvocellular [editorial; comment] Graham SL.
Aust N Z J Ophthalmol 1997 Aug;25(3):189-91. Comment on: Aust N Z J Ophthalmol 1997 Aug;25(3):239-43.

Magnocellular and parvocellular visual pathways are both affected in a macaque monkey model of glaucoma [see comments] Vickers JC, et al. **Aust N Z J Ophthalmol** 1997 Aug;25(3):239-43. Comment in: Aust N Z J Ophthalmol 1997 Aug;25(3):189-91.

The cellular mechanism underlying neuronal degeneration in glaucoma: parallels with Alzheimer's disease. Vickers JC. **Aust N Z J Ophthalmol** 1997 May;25(2):105-9 (47 ref.)

Nerve fibre layer thickness measurements derived by scanning laser polarimetry: the jury is out [editorial; comment] Hudson C. **Br J Ophthalmol** 1997 May; 81(5):338-9. Comment on: Br J Ophthalmol 1997 May;81(5):350-4.

The histopathology of the iridocorneal-endothelial syndrome. Levy SG, et al. **Cornea** 1996 Jan;15(1):46-54

Quantitative analysis of the lamina cribrosa in vivo using a scanning laser opthalmoscope. Bhandari A, et al.
Curr Eye Res 1997 Jan;16(1):1-8

Transmission electron microscopic analysis of trabecular meshwork in secondary glaucoma after intravitreal silicone oil injection. Cvenkel B, et al. **Int Ophthalmol** 1996-97; 20(1-3):43-7

Morphological evaluation of the conjunctiva and the trabecular meshwork incubated with Proline-3H. Fenu G, et al. **Ital J Anat Embryol** 1996 Jul-Sep;101(3):187-93

Relative optic cup depth assessments using three stereo photograph viewing methods. Boes DA, et al.
J Glaucoma 1996 Feb;5(1):9-14

Evaluation of optic disc measurements with the glaucoma-scope. Dan JA, et al. **J Glaucoma** 1996 Feb; 5(1):1-8

Study of central retinal ganglion cell loss in experimental glaucoma in monkey eyes. Desatnik H, et al.
J Glaucoma 1996 Feb;5(1):46-53

Quantitative estimation of retinal nerve fiber layer height in glaucoma and the relationship with optic nerve head topography and visual field. Eid TM, et al. **J Glaucoma** 1997 Aug;6(4):221-30

A simple clinical method to measure the optic disc size in glaucoma. Lim CS, et al. **J Glaucoma** 1996 Aug;5(4):241-5

Retinal ganglion cell death in glaucoma: the how, the why, and the maybe. Nickells RW. **J Glaucoma** 1996 Oct; 5(5):345-56 (83 ref.)

Change in the optic disc and nerve fiber layer estimated with the glaucoma-scope in monkey eyes. Quigley HA, et al.
J Glaucoma 1996 Apr;5(2):106-16

Staging glaucoma for the twenty-first century: Sixth Chandler-Grant Lecture. Shields MB. **J Glaucoma** 1996 Oct;5(5):340-4 (9 ref.)

Comparison of a simple ophthalmoscopic and planimetric measurement of glaucomatous neuroretinal rim areas [letter] Spencer AF, et al. **J Glaucoma** 1996 Jun;5(3):221-2

Changes in CD44 and ApoE immunoreactivities due to retinal pathology of man and rat. Kuhrt H, et al.
J Hirnforsch 1997;38(2):223-9

Apoptosis in retinal ganglion cell decrease in human glaucomatous eyes. Okisaka S, et al. **Jpn J Ophthalmol** 1997 Mar-Apr;41(2):84-8

Trabecular meshwork phagocytosis in glaucomatous eyes. Matsumoto Y, et al. **Ophthalmologica** 1997;211(3):147-52

Choroidal ganglion cell plexus and retinal vasculature in monkeys with laser-induced glaucoma. May CA, et al.
Ophthalmologica 1997;211(3):161-71

High-pass resolution perimetry and a Humphrey Field Analyzer as indicators of glaucomatous optic disc abnormalities. A comparative study. Kono Y, et al.
Ophthalmology 1997 Sep;104(9):1496-502

Various glaucomatous optic nerve appearances. A color Doppler imaging study of retrobulbar circulation. Nicolela MT, et al. **Ophthalmology** 1996 Oct;103(10):1670-9

Reproducibility of nerve fiber layer thickness measurements using optical coherence tomography. Schuman JS, et al.
Ophthalmology 1996 Nov;103(11):1889-98

Comparative optic disc analysis in normal pressure glaucoma, primary open-angle glaucoma, and ocular hypertension. Tezel G, et al. **Ophthalmology** 1996 Dec;103(12):2105-13

Reproducibility of nerve fiber layer thickness measurements [letter] Weinreb RN, et al. **Ophthalmology** 1997 Oct; 104(10):1530-1

Clinical features of five pedigrees genetically linked to the juvenile glaucoma locus on chromosome 1q21-q31. Wiggs JL, et al. **Ophthalmology** 1995 Dec;102(12):1782-9

[A study of neuroretinal rim morphology in physiologic large cups and early glaucoma] Xu L, et al.
Chung Hua Yen Ko Tsa Chih 1996 Mar;32(2):114-7 (Eng. Abstr.) **(Chi)**

[The retinal nerve fiber network layer in glaucoma. I. Introduction and methods] Kraus H, et al.
Cesk Slov Oftalmol 1996 Sep;52(4):207-9 (Eng. Abstr.) **(Cze)**

[Changes in extracellular matrix in the lamina cribosa of patients with secondary glaucoma] Thale AB, et al.
Ophthalmologe 1996 Oct;93(5):586-91 (Eng. Abstr.) **(Ger)**

[Cellular infiltration of the anterior and posterior eye segment with involvement of the peripheral retina, optic atrophy and secondary glaucoma. Non-Hodgkin's lymphoma of the central nervous system with ocular involvement at a young age] Wenkstern A, et al. **Ophthalmologe** 1997 Feb; 94(2):162-3 **(Ger)**

[Parapapillary chorioretinal atrophy and parapapillary avascular area in glaucoma] Funaki S, et al.
Nippon Ganka Gakkai Zasshi 1997 Jul;101(7):598-604 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Perimetric probability maps to separate change caused by glaucoma from that caused by cataract. Bengtsson B, et al. **Acta Ophthalmol Scand** 1997 Apr;75(2):184-8

An improved method to estimate frequency of false positive answers in computerized perimetry. Olsson J, et al.
Acta Ophthalmol Scand 1997 Apr;75(2):181-3

Pathological cupping in normal pressure glaucoma is probably not due to low CSF pressure [letter] Tsukahara S, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):646

Automatic detection of glaucomatous visual field progression with neural networks. Brigatti L, et al.
Arch Ophthalmol 1997 Jun;115(6):725-8

Influence of glaucomatous visual field loss on health-related quality of life. Gutierrez P, et al. **Arch Ophthalmol** 1997 Jun;115(6):777-84

Artificial neural network analysis of noisy visual field data in glaucoma. Henson DB, et al. **Artif Intell Med** 1997 Jun; 10(2):99-113

The spatial distribution of ERG losses across the posterior pole of glaucomatous eyes in multifocal recordings. Vaegan, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):28-31

Use of isolated ocular arteries in vitro to define the pathology of vascular changes in glaucoma. Buckley CH, et al.
Br J Ophthalmol 1997 Jul;81(7):599-607 (112 ref.)

Twenty four hour blood pressure monitoring in normal tension glaucoma [comment] Meyer JH, et al.
Br J Ophthalmol 1996 Oct;80(10):864-7. Comment on: Br J Ophthalmol 1996 Oct;80(10):858-9.

Inhaled steroids: effect on intraocular pressure in patients without glaucoma. Samiy N, et al. **Can J Ophthalmol** 1996 Apr;31(3):120-3

Proper outcome measurements regarding glaucoma: the inadequacy of using intraocular pressure alone. Spaeth GL.
Eur J Ophthalmol 1996 Apr-Jun;6(2):101-5 (35 ref.)

Levocabastine eye drops do not affect accommodative capacity in volunteers and intraocular pressure in glaucoma patients. Wolf S, et al. **Eur J Ophthalmol** 1995 Oct-Dec; 5(4):225-9

Effect of intraocular lens fixation on acute intraocular pressure rise after neodymium-YAG laser capsulotomy. Anand N, et al. **Eye** 1996;10 (Pt 4):509-13

Neural conduction in the visual pathways in ocular hypertension and glaucoma. Parisi V.
Graefes Arch Clin Exp Ophthalmol 1997 Mar;235(3):136-42

Determination of the pseudofacility by fluorophotometry in the human eye. Beneyto Martin P, et al.
Int Ophthalmol 1995-96;19(4):219-23

Nocturnal blood pressure and intraocular pressure measurement in glaucoma patients and healthy controls. Follmann P, et al. **Int Ophthalmol** 1996-97;20(1-3):83-7

Time of diagnosis, reoperations and long-term results of

goniotomy in the treatment of primary congenital glaucoma: a clinical study. Gramer E, et al. **Int Ophthalmol** 1996-97;20(1-3):117-23

Visual function following trabeculectomy: effect on corneal topography and contrast sensitivity. Dietze PJ, et al. **J Glaucoma** 1997 Apr;6(2):99-103

Management of chronic hypotony after glaucoma filtration surgery. Liebmann JM, et al. **J Glaucoma** 1996 Jun; 5(3):210-20 (127 ref.)

Reproducibility of retinal and optic nerve head blood flow measurements with scanning laser Doppler flowmetry. Nicolela MT, et al. **J Glaucoma** 1997 Jun;6(3):157-64

Effects of intraoperative mitomycin-C on the function of Baerveldt glaucoma drainage implants in rabbits. Prata JA Jr, et al. **J Glaucoma** 1996 Feb;5(1):29-38

Contrast sensitivity for flickering and static letters and visual acuity at isoluminance in glaucoma. Swindale NV, et al. **J Glaucoma** 1996 Jun;5(3):156-69

Short-term change of optic nerve head topography after trabeculectomy in adult glaucoma patients as measured by Heidelberg retina tomograph. Park KH, et al. **Korean J Ophthalmol** 1997 Jun;11(1):1-6

Venous tone in glaucoma and hypertension. Bojić L, et al. **Ophthalmic Res** 1997;29(1):6-11

Comparison of Fastpak with full-threshold 24-2 glaucoma field tests. Gillies B, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):758-62

The course after cataract extraction, intraocular lens implantation, and trabeculectomy for patients with diabetes. Pollack A, et al. **Ophthalmic Surg Lasers** 1996 Jul; 27(7):595-9

Outcome of functioning filtering blebs after pars plana vitrectomy. Thompson WS, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):367-73

Ocular blood flow in experimental glaucoma: a study in cynomolgus monkeys. Alm A, et al. **Ophthalmologica** 1997; 211(3):178-82

Glaucoma, capillaries and pericytes. 5. Preliminary evidence that carbon dioxide relaxes pericyte contractile tone. Anderson DR, et al. **Ophthalmologica** 1996;210(5):280-4

Glaucoma, capillaries and pericytes. 1. Blood flow regulation. Anderson DR. **Ophthalmologica** 1996;210(5):257-62 (82 ref.)

Glaucoma, capillaries and pericytes. 2. Identification and characterization of retinal pericytes in culture. Anderson DR, et al. **Ophthalmologica** 1996;210(5):263-8

Glaucoma, capillaries and pericytes. 3. Peptide hormone binding and influence on pericytes. Ferrari-Dileo G, et al. **Ophthalmologica** 1996;210(5):269-75

Effect of surgery on visual field progression in normal-tension glaucoma. Bhandari A, et al. **Ophthalmology** 1997 Jul;104(7):1131-7

Analysis of reliability indices from Humphrey visual field tests in an urban glaucoma population. Birt CM, et al. **Ophthalmology** 1997 Jul;104(7):1126-30

Improving the prediction of visual field progression in glaucoma using spatial processing. Crabb DP, et al. **Ophthalmology** 1997 Mar;104(3):517-24

Response of filtered eyes to digital ocular pressure. Kane H, et al. **Ophthalmology** 1997 Feb;104(2):202-6

Estimating progression of visual field loss in glaucoma. Katz J, et al. **Ophthalmology** 1997 Jun;104(6):1017-25

Various glaucomatous optic nerve appearances. A color Doppler imaging study of retrobulbar circulation. Nicolela MT, et al. **Ophthalmology** 1996 Oct;103(10):1670-9

Comparison of methods to detect visual field progression in glaucoma. Nouri-Mahdavi K, et al. **Ophthalmology** 1997 Aug;104(8):1228-36

Removal of retained lens fragments after phacoemulsification reverses secondary glaucoma and restores visual acuity. Vilar NF, et al. **Ophthalmology** 1997 May;104(5):787-91; discussion 791-2

Fluorescein angiographic evaluation of the effect of latanoprost treatment on blood-retinal barrier integrity: a review of studies conducted on pseudophakic glaucoma patients and on phakic and aphakic monkeys. Hoyng PF, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S83-8 (33 ref.)

Visual impairment, visual functioning, and quality of life assessments in patients with glaucoma. Parrish RK 2nd. **Trans Am Ophthalmol Soc** 1996;94:919-1028

Psychophysical evidence for a selective loss of M ganglion cells in glaucoma. Anderson RS, et al. **Vision Res** 1997 Apr;37(8):1079-83

Perimetric motion thresholds are elevated in glaucoma suspects and glaucoma patients. Bosworth CF, et al. **Vision Res** 1997 Jul;37(14):1989-97

Motion coherence perimetry in glaucoma and suspected glaucoma. Joffe KM, et al. **Vision Res** 1997 Apr; 37(7):955-64

Responses to chromatic and luminance contrast in glaucoma: a psychophysical and electrophysiological study. Porciatti V, et al. **Vision Res** 1997 Jul;37(14):1975-87

[Effect of local medications on intraocular pressure control following trabeculectomy] Detry-Morel M, et al. **Bull Soc Belge Ophtalmol** 1995;259:135-41 (Eng. Abstr.) **(Fre)**

[Role of arterial blood pressure in the development of glaucomatous lesions] Bresson-Dumont H, et al. **J Fr Ophtalmol** 1996;19(6-7):435-42 (Eng. Abstr.) **(Fre)**

[Physiopathology of uveitic glaucoma] Mermoud A. **Klin Monatsbl Augenheilkd** 1997 May;210(5):269-73 (66 ref.) (Eng. Abstr.) **(Fre)**

[Mode of progression of visual field defects and risk factors in glaucoma patients] Hosoda M, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jul;101(7):593-7 (Eng. Abstr.) **(Jpn)**

[Clinical applications of time-dependent perimetry (10) receptive field properties of glaucoma patients] Nagasaka T, et al. **Nippon Ganka Gakkai Zasshi** 1997 Feb; 101(2):180-6 (Eng. Abstr.) **(Jpn)**

[Effect of nipradilol on aqueous flow in glaucoma patients treated with timolol] Nagataki S, et al. **Nippon Ganka Gakkai Zasshi** 1997 Mar;101(3):252-6 (Eng. Abstr.) **(Jpn)**

[Slow axonal transport in primate experimental glaucoma] Sawaguchi S, et al. **Nippon Ganka Gakkai Zasshi** 1996 Feb; 100(2):132-8 (Eng. Abstr.) **(Jpn)**

[The role of hemodynamic conditions in the posterior eye segment on genesis and development of glaucomatous neuropathy] Nižankowska MH. **Klin Oczna** 1996 Mar; 98(3):241-7 (75 ref.) (Eng. Abstr.) **(Pol)**

[Variations in intraocular pressure in normal-pressure glaucoma and in hypertensive open-angle glaucoma] Mocanu C. **Oftalmologia** 1996 Jul-Sep;40(3):229-36 (Eng. Abstr.) **(Rum)**

PREVENTION & CONTROL

Sight tests to detect glaucoma. Entitlement to free sight tests should be reviewed [letter; comment] Cole M. **BMJ** 1997 May 3;314(7090):1349. Comment on: BMJ 1997 Jan 25;314(7076):245.

Sight tests to detect glaucoma. Reliability of screening procedures and effectiveness of treatment need to be assessed [letter] Griffiths PG. **BMJ** 1997 May 3; 314(7090):1348-9

Does medical treatment of mild intraocular hypertension prevent glaucoma? Aguinaga Ontoso I, et al. **Eur J Epidemiol** 1997 Jan;13(1):19-23

Who should be screened for glaucoma? Vernon S. **Practitioner** 1997 Apr;241(1573):206-8

[Optimizing the distribution and test locations in statistical perimetry. Preliminary results] Sugimoto K, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):302-4 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

[Successful irradiation of ciliary processes with electrons in therapy refractory aphakic glaucoma] Gärtner J, et al. **Klin Monatsbl Augenheilkd** 1997 Jul;211(1):57-9 (Eng. Abstr.) **(Ger)**

SURGERY

Bilateral simultaneous surgery [letter; comment] Gebhardt DO. **Acta Ophthalmol Scand** 1996 Aug;74(4):415. Comment on: Acta Ophthalmol Scand 1995 Dec;73(6):543-6.

Efficacy of autologous blood injection for treating overfiltering or leaking blebs after glaucoma surgery. Choudhri SA, et al. **Am J Ophthalmol** 1997 Apr; 123(4):554-5

Clinical experience with the Ahmed Glaucoma Valve implant in eyes with prior or concurrent penetrating keratoplasties. Coleman AL, et al. **Am J Ophthalmol** 1997 Jan;123(1):54-61

Change in optic disk topography after trabeculectomy. Irak I, et al. **Am J Ophthalmol** 1996 Nov;122(5):690-5

Trabeculectomy with intraoperative 5-fluorouracil vs mitomycin C. Singh K, et al. **Am J Ophthalmol** 1997 Jan; 123(1):48-53

Prolonged impairment of peripheral corneal epithelium barrier function after successful trabeculectomy. Tanihara H, et al. **Am J Ophthalmol** 1997 Apr;123(4):487-93

Five-year follow-up of the Fluorouracil Filtering Surgery Study [letter; comment] Van Buskirk EM. **Am J Ophthalmol** 1996 Nov;122(5):751-2. Comment on: Am J Ophthalmol 1996 Apr;121(4):349-66.

Outpatient treatment of bleb infection. Chen PP, et al. **Arch Ophthalmol** 1997 Sep;115(9):1124-8

Initial clinical experience with the Ahmed Glaucoma Valve implant in pediatric patients. Coleman AL, et al. **Arch Ophthalmol** 1997 Feb;115(2):186-91

Adjunctive use of mitomycin in filtration surgery. Is it worth the risk? [editorial; comment] Higginbotham EJ. **Arch Ophthalmol** 1997 Aug;115(8):1068-9. Comment on: Arch Ophthalmol 1997 Aug;115(8):969-74.

Retinal complications after aqueous shunt surgical procedures for glaucoma. Law SK, et al. **Arch Ophthalmol** 1996 Dec; 114(12):1473-80

Anatomic considerations in the implantation of the Ahmed glaucoma valve [letter; comment] Melamed S, et al. **Arch Ophthalmol** 1996 Oct;114(10):1298-9. Comment on: Arch Ophthalmol 1996 Feb;114(2):223-4.

Surgery for refractory glaucoma. Kitazawa Y, et al. **Aust N Z J Ophthalmol** 1996 Nov;24(4):327-32

5-FU loaded pHEMA drainage implants for glaucoma-filtering surgery: device design and in vitro release kinetics. Gökce M, et al. **Biomaterials** 1996 May; 17(9):941-9

Modified phacotrabeculectomy with Crozafon punch. Rasouli H, et al. **Bull Soc Belge Ophtalmol** 1996;261:59-63

Late postoperative hypotony and choroidal detachment. Birt CM, et al. **Can J Ophthalmol** 1996 Apr;31(3):125-9

The use of ultrasound biomicroscopy following trabeculectomy. McWhae JA, et al. **Can J Ophthalmol** 1996 Jun;31(4):187-91

Holmium laser sclerostomy. Saheb NE. **Can J Ophthalmol** 1996 Aug;31(5):267-8 (16 ref.)

Towards a visual prosthesis. Lewin W. **Clin Neurosurg** 1971; 18:155-65

Trabeculectomy: complications and success in IOP control. Alemu B. **Ethiop Med J** 1997 Jan;35(1):1-11

Subconjunctival THC:YAG laser sclerostomy under a partial thickness flap. Luntz MH, et al. **Eur J Ophthalmol** 1996 Jul-Sep;6(3):268-72

The value of perioperative intraocular pressure measurement in trabeculectomy as a predictor of the early post-operative course. Suharwardy J, et al. **Eye** 1997;11 (Pt 1):109-12

Trabeculectomy in subconjunctival anesthesia [letter] Pfeiffer N, et al. **Ger J Ophthalmol** 1996 May;5(3):182-3

Experimental microendoscopic photoablative laser goniotomy as a surgical model for the treatment of dysgenetic glaucoma. Jacobi PC, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Nov;234(11):670-6

In vitro effects of mitomycin C on human Tenon's capsule fibroblasts & correlation with surgical outcome in glaucoma patients. Vijaya L, et al. **Indian J Med Res** 1997 Mar; 105:125-30

Results of intraoperative 5-fluorouracil in patients undergoing trabeculectomy--pilot trial. Shelat B, et al. **Indian J Ophthalmol** 1996 Jun;44(2):91-4

Mechanisms of failure in glaucoma filtering surgery: a consequence of antiglaucomatous drugs? Baudouin C. **Int J Clin Pharmacol Res** 1996;16(1):29-41 (39 ref.)

Subconjunctival injection of low-dose Mitomycin-C for treatment of failing human trabeculectomies. Apostolov VI, et al. **Int Ophthalmol** 1996-97;20(1-3):101-5

Treatment of glaucoma in young nanophthalmic patients. Kocak I, et al. **Int Ophthalmol** 1996-97;20(1-3):107-11

Holmium YAG laser sclerostomy ab externo for refractory glaucoma. Onda E, et al. **Int Ophthalmol** 1996-97; 20(6):309-14

Deep sclerectomy: results with and without collagen implant. Sanchez E, et al. **Int Ophthalmol** 1996-97;20(1-3):157-62

Trabeculectomy with mitomycin C: an electron microscopic and clinical study. Turáçli ME, et al. **Int Ophthalmol** 1995-96;19(6):337-46

Comparison of results and complications following combined ECCE-trabeculectomy versus small-incision-trabeculectomy and posterior chamber lens implantation. Wedrich A, et al. **Int Ophthalmol** 1996-97; 20(1-3):125-9

Late infections associated with glaucoma surgery. Braun C. **Int Ophthalmol Clin** 1996 Summer;36(3):73-85 (56 ref.)

Endophthalmitis following glaucoma filtering surgery. Ciulla TA, et al. **Int Ophthalmol Clin** 1996 Summer;36(3):87-96

Effect of varying the mitomycin-C treatment area in glaucoma filtration surgery in the rabbit. Cordeiro MF, et al. **Invest Ophthalmol Vis Sci** 1997 Jul;38(8):1639-46

A novel MMC-loaded pHEMA drainage device for the treatment of glaucoma: in vitro and in vivo studies. Kiremitçi-Gümüşderelioglu M, et al. **J Biomater Sci Polym Ed** 1996;7(10):857-69

Combined cataract and glaucoma procedures using temporal cataract surgery. Gayton JL, et al. **J Cataract Refract Surg** 1996 Dec;22(10):1485-91

Silicone versus poly(methyl methacrylate) lenses in combined phacoemulsification and trabeculectomy. Kosmin AS, et al. **J Cataract Refract Surg** 1997 Jan-Feb;23(1):97-105

Propofol decreases ocular pressure in outpatients undergoing trabeculectomy. Lauretti GR, et al. **J Clin Anesth** 1997 Jun;9(4):289-92

Effects of apraclonidine on short-term outcome of glaucoma surgery. Azuara-Blanco A, et al. **J Glaucoma** 1996 Apr; 5(2):117-9

Midterm follow-up results of combined phacoemulsification, lens implantation, and mitomycin-C trabeculectomy procedure. Belyea DA, et al. **J Glaucoma** 1997 Apr; 6(2):90-8

The role of mitomycin treatment duration and previous intraocular surgery on the success of trabeculectomy surgery. Cohen JS, et al. **J Glaucoma** 1997 Feb;6(1):3-9

Low-dose mitomycin C trabeculectomy in patients with advanced glaucoma. Costa VP, et al. **J Glaucoma** 1996 Jun; 5(3):193-9

Valve membrane adhesion as a cause of Ahmed glaucoma valve failure. Feldman RM, et al. **J Glaucoma** 1997 Feb; 6(1):10-2

Use of fascia lata in revision of filtration surgery. Hughes BA, et al. **J Glaucoma** 1996 Jun;5(3):207-9

Management of chronic hypotony after glaucoma filtration surgery. Liebmann JM, et al. **J Glaucoma** 1996 Jun; 5(3):210-20 (127 ref.)

Fibrin glue: an alternative method of wound closure in glaucoma surgery. O'Sullivan F, et al. **J Glaucoma** 1996 Dec;5(6):367-70

Suprachoroidal hemorrhage after Molteno implantation. Paysse E, et al. **J Glaucoma** 1996 Jun;5(3):170-5

Filtration surgery in a young, aphakic, high myope. II. Management of postoperative choroidal hemorrhage. Shabto U, et al. **J Glaucoma** 1996 Apr;5(2):120-6

Results of intraoperative 5-fluorouracil or lower dose mitomycin-C administration on initial trabeculectomy surgery. Smith MF, et al. **J Glaucoma** 1997 Apr;6(2):104-10

Combined phacoemulsification, intraocular lens implant, and trabeculectomy with intraoperative mitomycin-C: comparison between 3.2- and 6.0-mm incisions. Wand M. **J Glaucoma** 1996 Oct;5(5):301-7

Factors associated with visual acuity loss after noncontact transscleral Nd:YAG cyclophotocoagulation. Youn J, et al. **J Glaucoma** 1996 Dec;5(6):390–4

Trabeculectomy with multiple applications of mitomycin–C in monkeys with experimental glaucoma. Bair JS, et al. **J Ocul Pharmacol Ther** 1997 Apr;13(2):115–28

Subconjunctival retention of C3F8 gas increased the success rates of trabeculectomy in young people. Lu DW, et al. **J Ocul Pharmacol Ther** 1997 Jun;13(3):235–42

Transscleral diode laser cyclophotocoagulation for refractory pediatric glaucomas. Bock CJ, et al. **J Pediatr Ophthalmol Strabismus** 1997 Jul–Aug;34(4):235–9

Endoscopic goniotomy for congenital glaucoma. Medow NB, et al. **J Pediatr Ophthalmol Strabismus** 1997 Jul–Aug; 34(4):258–9

The role of early trabeculectomy in the control of chronic simple glaucoma. Dastur YK. **J Postgrad Med** 1994 Apr–Jun;40(2):74–7

Effects of different formulations of mitoxantrone (solutions, nanospheres, liposomes) on glaucoma surgery in rabbits. Tilleul P, et al. **Ophthalmic Res** 1997;29(4):218–26

Predicting long–term results of trabeculectomy from early postoperative intraocular pressure levels. Asamoto A, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):355–60

Anterior chamber maintenance during drainage of a suprachoroidal hemorrhage in two phakic eyes. Birt CM, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):739–45

Management of coexisting corneal disease and glaucoma by combined penetrating keratoplasty and trabeculectomy with mitomycin–C. Figueiredo RS, et al. **Ophthalmic Surg Lasers** 1996 Nov;27(11):903–9

Laser iridotomy [letter] Holló G. **Ophthalmic Surg Lasers** 1996 Nov;27(11):972–4

Low–dose perioperative 5–fluorouracil in trabeculectomy. Hugkulstone CE, et al. **Ophthalmic Surg Lasers** 1996 Nov; 27(11):910–6

Corneal incision phacoemulsification and internal bleb revision. Kasahara N, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):361–6

The results of ab interno laser thermal sclerostomy combined with cataract surgery versus trabeculectomy combined with cataract surgery 6 to 12 months postoperatively. Kendrick R, et al. **Ophthalmic Surg Lasers** 1996 Jul; 27(7):583–6

Laser iridotomy. Liebmann JM, et al. **Ophthalmic Surg Lasers** 1996 Mar;27(3):209–27 (211 ref.)

Glaucoma filtration surgery and antimetabolites. Mattox C. **Ophthalmic Surg Lasers** 1995 Sep–Oct;26(5):473–80 (22 ref.)

Use of a scleral shield for the application of mitomycin–C during trabeculectomy: preliminary clinical results. Mietz H, et al. **Ophthalmic Surg Lasers** 1996 Dec;27(12):989–94

Follow–up of argon laser trabeculoplasty: is a day–one postoperative IOP check necessary? Mittra RA, et al. **Ophthalmic Surg Lasers** 1995 Sep–Oct;26(5):410–3

Endoscopic diode laser cyclophotocoagulation with a limbal approach. Mora JS, et al. **Ophthalmic Surg Lasers** 1997 Feb;28(2):118–23

Topical cyclosporine and glaucoma drainage implant surgery in rabbits. Park KH, et al. **Ophthalmic Surg Lasers** 1996 Jun;27(6):452–8

Contact transscleral Nd:YAG laser cyclophotocoagulation for the treatment of refractory pediatric glaucoma. Phelan MJ, et al. **Ophthalmic Surg Lasers** 1995 Sep–Oct; 26(5):401–3

Comparison of combined cataract and glaucoma surgery using planned extracapsular and phacoemulsification techniques. Shingleton BJ, et al. **Ophthalmic Surg Lasers** 1995 Sep–Oct;26(5):414–9

Management of the failing glaucoma filter. Shingleton BJ. **Ophthalmic Surg Lasers** 1996 Jun;27(6):445–51 (39 ref.)

Three–millimeter versus 6–mm incisions in combined phacoemulsification and trabeculectomy. Stewart WC, et al. **Ophthalmic Surg Lasers** 1996 Oct;27(10):832–8

Nd: YAG laser for Ahmed tube shunt occlusion by the posterior capsule. Tessler Z, et al. **Ophthalmic Surg Lasers** 1997 Jan;28(1):69–70

Comparative results of combined procedures for glaucoma and cataract: II. Limbus–based versus fornix–based conjunctival flaps. Tezel G, et al. **Ophthalmic Surg Lasers** 1997 Jul;28(7):551–7

Comparative results of combined procedures for glaucoma and cataract: I. Extracapsular cataract extraction versus phacoemulsification and foldable versus rigid intraocular lenses. Tezel G, et al. **Ophthalmic Surg Lasers** 1997 Jul; 28(7):539–50

Outcome of functioning filtering blebs after pars plana vitrectomy. Thompson WS, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):367–73

Apraclonidine 0.5% versus 1% for controlling intraocular pressure elevation after argon laser trabeculoplasty. Threlkeld AB, et al. **Ophthalmic Surg Lasers** 1996 Aug; 27(8):657–60

Endoscopic fluorescein angiography of the ciliary body in glaucoma management. Uram M. **Ophthalmic Surg Lasers** 1996 Mar;27(3):174–8

Capsule excision after failed Molteno surgery. Välimäki J, et al. **Ophthalmic Surg Lasers** 1997 May;28(5):382–6

Intraocular pressure increments after cataract extraction in glaucomatous eyes with functioning filtering blebs. Wygnanski–Jaffe T, et al. **Ophthalmic Surg Lasers** 1997 Aug;28(8):657–61

Phacoemulsification with and without trabeculectomy in patients with glaucoma. Yalvac I, et al. **Ophthalmic Surg Lasers** 1997 Jun;28(6):469–75

Use of a special device for the treatment of overfiltration after glaucoma filtering surgery. Cennamo G, et al. **Ophthalmologica** 1997;211(2):61–5

The trabeculum as a drain in aphakic glaucoma. Devin F, et al. **Ophthalmologica** 1997;211(1):21–4

Trabeculectomy with a Kelly Descemet membrane punch. Suzuki R. **Ophthalmologica** 1997;211(2):93–4

Limbus– versus fornix–based conjunctival flaps in combined phacoemulsification and mitomycin C trabeculectomy surgery. Berestka JS, et al. **Ophthalmology** 1997 Feb; 104(2):187–96

Effect of surgery on visual field progression in normal–tension glaucoma. Bhandari A, et al. **Ophthalmology** 1997 Jul;104(7):1131–7

"Cyclodiode". Trans–scleral diode laser cyclophotocoagulation in the treatment of advanced refractory glaucoma. Bloom PA, et al. **Ophthalmology** 1997 Sep;104(9):1508–19; discussion 1519–20

Needling revision of glaucoma drainage device filtering blebs. Chen PP, et al. **Ophthalmology** 1997 Jun;104(6):1004–10

A placebo–controlled, double–masked evaluation of mitomycin C in combined glaucoma and cataract procedures. Cohen JS, et al. **Ophthalmology** 1996 Nov; 103(11):1934–42

Needling versus medical treatment in encapsulated blebs. A randomized, prospective study. Costa VP, et al. **Ophthalmology** 1997 Aug;104(8):1215–20

Long–term results of noncontact transscleral neodymium:YAG cyclophotocoagulation. Dickens CJ, et al. **Ophthalmology** 1995 Dec;102(12):1777–81 (24 ref.)

Annular peripheral choroidal detachment simulating aqueous misdirection after glaucoma surgery. Dugel PU, et al. **Ophthalmology** 1997 Mar;104(3):439–44

Long–term effects of tube–shunt procedures on management of refractory childhood glaucoma. Eid TE, et al. **Ophthalmology** 1997 Jun;104(6):1011–6

Initial ciliary ablation with TSCPC [letter; comment] Fankhauser F, et al. **Ophthalmology** 1997 Apr;104(4):568–70 . Comment on: Ophthalmology 1996 Aug;103(8):1294–302.

Scleritis after glaucoma filtering surgery with mitomycin C. Fourman S. **Ophthalmology** 1995 Oct;102(10):1569–71

Primary glaucoma triple procedure [letter; comment] Hugkulstone CE. **Ophthalmology** 1997 Aug;104(8):1208–9 . Comment on: Ophthalmology 1996 Nov;103(11):1925–33.

Mitomycin C versus 5–fluorouracil in high–risk glaucoma filtering surgery. Extended follow–up. Katz GJ, et al. **Ophthalmology** 1995 Sep;102(9):1263–9

5–Fluorouracil in primary combined glaucoma surgery [letter] Khouri AS, et al. **Ophthalmology** 1997 Oct; 104(10):1527–8

Glaucoma drainage devices and the FDA [editorial] Krawczyk CH. **Ophthalmology** 1995 Nov;102(11):1581–2

Small incision trabeculectomy avoiding Tenon's capsule. A new procedure for glaucoma surgery. Lerner SF. **Ophthalmology** 1997 Aug;104(8):1237–41

Remodeling filtering blebs with the neodymium:YAG laser. Lynch MG, et al. **Ophthalmology** 1996 Oct;103(10):1700–5

Mitomycin C–augmented trabeculectomy in refractory congenital glaucoma. Mandal AK, et al. **Ophthalmology** 1997 Jun;104(6):996–1001; discussion 1002–3

Slit–lamp needle revision of failed filtering blebs using mitomycin C. Mardelli PG, et al. **Ophthalmology** 1996 Nov; 103(11):1946–55

Initial ciliary ablation with TSCPC [letter; comment] Medow NB, et al. **Ophthalmology** 1997 Feb;104(2):171–3. Comment on: Ophthalmology 1996 Aug;103(8):1294–302.

Clinical experience with the Baerveldt glaucoma drainage implant. Siegner SW, et al. **Ophthalmology** 1995 Sep; 102(9):1298–307

Hypotony maculopathy after filtering surgery with mitomycin C. Incidence and treatment. Suñer IJ, et al. **Ophthalmology** 1997 Feb;104(2):207–14; discussion 214–5

Trabeculectomy—success rates in a Singapore hospital. Tan C, et al. **Singapore Med J** 1996 Oct;37(5):505–7

Ciliary body ablation: where are we and how did we get here? [see comments] Mastrobattista JM, et al. **Surv Ophthalmol** 1996 Nov–Dec;41(3):193–213 (212 ref.). Comment in: Surv Ophthalmol 1997 May–Jun;41(6):505.

Temporal corneal phacoemulsification combined with superior trabeculectomy: a controlled study. Caprioli J, et al. **Trans Am Ophthalmol Soc** 1996;94:451–63; discussion 463–8

Transvitreal endocyclophotocoagulation. Haller JA. **Trans Am Ophthalmol Soc** 1996;94:589–676

Long–term results of trabeculectomy in eyes that were initially successful. Wilensky JT, et al. **Trans Am Ophthalmol Soc** 1996;94:147–59; discussion 160–4

[An experimental study on homoharringtonine and glaucoma surgery] Peng D, et al. **Yen Ko Hsueh Pao** 1995 Jun; 11(2):76–9 (Eng. Abstr.) **(Chi)**

[Modulation of wound healing in filtering anti–glaucoma surgery] Váša M, et al. **Cesk Slov Oftalmol** 1997 Jun; 53(3):204–7 **(Cze)**

[Surgery for glaucoma and endophthalmitis] Collignon–Brach J. **Bull Soc Belge Ophtalmol** 1996; 260:73–7 (16 ref.) (Eng. Abstr.) **(Fre)**

[Treatment of refractory glaucomas by transscleral cyclophotocoagulation using semiconductor diode laser. Analysis of 50 patients followed–up over 19 months] Hamard P, et al. **J Fr Ophtalmol** 1997;20(2):125–33 (Eng. Abstr.) **(Fre)**

[Does the dosage of mitomycin–C applied during filtering surgery of glaucoma vary with the individual surgeon?] Mehel E, et al. **J Fr Ophtalmol** 1997;20(3):195–9 (Eng. Abstr.) **(Fre)**

[Trabeculo–intendation. A new surgical treatment of glaucoma of the aphakic eye] Saracco JB, et al. **J Fr Ophtalmol** 1996;19(6–7):410–4 (Eng. Abstr.) **(Fre)**

[Cataract–glaucoma combined surgery: comparison between phacoemulsification combined with deep sclerectomy, or trabeculectomy] Gianoli F, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):256–60 (Eng. Abstr.) **(Fre)**

[Comparative results of deep sclerectomy transformed to trabeculectomy and classical trabeculectomy] Sanchez E, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):261–4 (Eng. Abstr.) **(Fre)**

[Perioperative conjunctival flora] Herde J, et al. **Klin Monatsbl Augenheilkd** 1996 Jul;209(1):13–20 (Eng. Abstr.) **(Ger)**

[Modified radiation administration in Er:YAG laser ab externo sclerostomy] Kampmeier J, et al. **Klin Monatsbl Augenheilkd** 1997 Jul;211(1):48–52 (Eng. Abstr.) **(Ger)**

[Ultrasound biomicroscopy as a criterium of functional assessment of the supra–choroidal cleft after chamber angle surgical interventions] Klemm M, et al. **Klin Monatsbl Augenheilkd** 1997 Feb;210(2):74–7 (Eng. Abstr.) **(Ger)**

[How successful is the filtering bleb "needling"?] Meyer JH, et al. **Klin Monatsbl Augenheilkd** 1997 Apr;210(4):192–6 (Eng. Abstr.) **(Ger)**

[How can the success of a glaucoma operation be predicted?] Funk J, et al. **Ophthalmologe** 1996 Oct;93(5):592–5 (Eng. Abstr.) **(Ger)**

[Dose–response relationship of trans–scleral contact cyclophotocoagulation] Krott R, et al. **Ophthalmologe** 1997 Apr;94(4):273–6 (Eng. Abstr.) **(Ger)**

[Filtering glaucoma operations. Can growth factor blockers replace antimetabolites?] Mietz H. **Ophthalmologe** 1997 Mar;94(3):242–7 (64 ref.) **(Ger)**

[Cyclophotocoagulation with the diode laser in contact procedure with a new focussing tip] Roider J, et al. **Ophthalmologe** 1996 Oct;93(5):576–80 (Eng. Abstr.) **(Ger)**

[Antiproliferative therapy with 5–fluorouracil in erbium:YAG laser sclerostomy ab externo] Schmidbauer JM, et al. **Ophthalmologe** 1996 Oct;93(5):569–75 (Eng. Abstr.) **(Ger)**

[Findings on the extraction of cataracts in already fistulized glaucomatous eyeballs] Brancato R, et al. **Minerva Oftalmol** 1967 Jul–Aug;9(4):131–6 (Eng. Abstr.) **(Ita)**

[Experimental use of a cytostatic and a corticosteroid on a collagen implant in surgery for glaucoma] Batmanov IE, et al. **Vestn Oftalmol** 1996 Sep–Oct;112(4):14–16 (Eng. Abstr.) **(Rus)**

[Immunological prognostication of the risk of cataract development after glaucoma surgery] Kurysheva NI, et al. **Vestn Oftalmol** 1997 Jan–Feb;113(1):8–11 (Eng. Abstr.) **(Rus)**

THERAPY

Outcome measures for glaucoma treatment. Hitchings RA. **Br J Ophthalmol** 1997 Jun;81(6):427

Malignant glaucoma and its management. Ruben S, et al. **Br J Ophthalmol** 1997 Feb;81(2):163–7 (36 ref.)

A comparative clinical trial of mitomycin C and cyclosporin A in trabeculectomy. Turaçli E, et al. **Eur J Ophthalmol** 1996 Oct–Dec;6(4):398–401

Consultation section. Cataract surgical problems. **J Cataract Refract Surg** 1997 Mar;23(2):150–9

Use of antifibrosis agents and glaucoma drainage devices in the American and Japanese Glaucoma Societies. Chen PP, et al. **J Glaucoma** 1997 Jun;6(3):192–6

Second annual optic nerve rescue and restoration think tank meeting. Chew SJ, et al. **J Glaucoma** 1996 Apr;5(2):147–9

Target pressure in glaucoma therapy. Jampel HD. **J Glaucoma** 1997 Apr;6(2):133–8 (16 ref.)

The effect of a brief education program on glaucoma patients. Kim S, et al. **J Glaucoma** 1997 Jun;6(3):146–51

Outcomes and endpoints in glaucoma. Lee PP. **J Glaucoma** 1996 Aug;5(4):295–7

Translating research into practice: controlled clinical trials and their influence on glaucoma management. Wilson MR, et al. **J Glaucoma** 1996 Apr;5(2):139–46

Glaucoma: outcomeology (part I) [editorial] [corrected and republished in J Glaucoma 1996 Oct;5(5):299] Zimmerman TJ, et al. **J Glaucoma** 1996 Jun;5(3):151

Glaucoma: outcomeology (Part II) [editorial] Zimmerman TJ, et al. **J Glaucoma** 1996 Jun;5(3):152–5 (25 ref.)

Glaucoma: outcomeology (Part I) [editorial] [corrected and republished article originally printed in J Glaucoma 1996 Jun;5(3):151] Zimmerman TJ, et al. **J Glaucoma** 1996 Oct; 5(5):299

Racial variations in treatment for glaucoma and cataract among Medicare recipients. Wang F, et al. **Ophthalmic Epidemiol** 1997 Jun;4(2):89–100

Effect of brimonidine 0.5% on intraocular pressure spikes following 360% argon laser trabeculoplasty. The Brimonidine–ALT Study Group. **Ophthalmic Surg Lasers** 1995 Sep–Oct;26(5):404–9

Regression of rubeosis iridis after trabeculectomy combined with mitomycin-C. Gaspar AZ, et al. **Ophthalmic Surg Lasers** 1996 Aug;27(8):709-12

Bleb rupture following filtering surgery with mitomycin-C: clinicopathologic correlations. Greenfield DS, et al. **Ophthalmic Surg Lasers** 1996 Oct;27(10):876-7

Intraoperative mitomycin-C for glaucoma associated with ocular inflammation. Wright MM, et al. **Ophthalmic Surg Lasers** 1997 May;28(5):370-6

Intermediate-term outcome of variable dose mitomycin C filtering surgery. Cheung JC, et al. **Ophthalmology** 1997 Jan;104(1):143-9

Patient self-management skills influence the course of glaucoma [editorial] Spaeth GL. **Ophthalmology** 1997 Jul; 104(7):1065-6

Evolution of glaucoma care--from lore to data [editorial] Van Buskirk EM. **Ophthalmology** 1997 Sep;104(9):1371-2

[Treatment of glaucoma] Krogh E, et al. **Ugeskr Laeger** 1996 Sep 23;158(39):5419-22 **(Dan)**

[The diagnosis and treatment of glaucoma] Vesti E. **Duodecim** 1995;111(11):1059-62 (6 ref.) **(Fin)**

[How I treat and manage of a diabetic afflicted with glaucoma] Pinon F. **Journ Annu Diabetol Hotel Dieu** 1996; :167-74 (28 ref.) **(Fre)**

[The Munich Glaucoma Symposium. Glaucoma: new aspects of research and therapy] **Klin Monatsbl Augenheilkd** 1997 Aug;211(2 Suppl Munchner):1-8 **(Ger)**

[Principles of effectiveness control in therapy of glaucoma] Gloor B, et al. **Ophthalmologe** 1996 Oct;93(5):510-9 (70 ref.) (Eng. Abstr.) **(Ger)**

[Effect of non-surgical ocular hypotensive therapy in normal-tension glaucoma] Koseki N, et al. **Nippon Ganka Gakkai Zasshi** 1997 Feb;101(2):158-62 (Eng. Abstr.) **(Jpn)**

[Current topics in glaucoma] Masuda K. **Nippon Ganka Gakkai Zasshi** 1996 Dec;100(12):923-36 (65 ref.) (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Ultrasonography of the optic disc cup in discs of various sizes. Winder S, et al. **Eye** 1996;10 (Pt 6):732-6

Blood flow velocity measurements in the optic nerve of glaucomatous patients by elaboration of a constant to evaluate the evolutive risk. Giò M, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):291-9

Glaucoma with inflammatory precipitates on the trabecular meshwork: a report of Grant's syndrome with ultrasound biomicroscopy of precipitates. Cohen RG, et al. **J Glaucoma** 1996 Aug;5(4):266-70

Intraobserver and interobserver agreement in evaluating the anterior chamber angle configuration by ultrasound biomicroscopy. Spaeth GL, et al. **J Glaucoma** 1997 Feb; 6(1):13-7

A new water bath for ultrasonic biomicroscopy. Kapetansky FM. **Ophthalmic Surg Lasers** 1997 Jul;28(7):605-6

Ultrasonographic findings of the optic disc in congenital glaucoma. Snir M, et al. **Ophthalmic Surg Lasers** 1996 Dec; 27(12):1039-40

Ultrasound biomicroscopy in infantile glaucoma. Azuara-Blanco A, et al. **Ophthalmology** 1997 Jul; 104(7):1116-9

An ultrasound biomicroscopic study of filtering blebs after mitomycin C trabeculectomy. Yamamoto T, et al. **Ophthalmology** 1995 Dec;102(12):1770-6

VETERINARY

Vitreous body glutamate concentration in dogs with glaucoma. Brooks DE, et al. **Am J Vet Res** 1997 Aug; 58(8):864-7

Glaucoma in a captive-bred great horned owl (Bubo virginianus virginianus). Rayment LJ, et al. **Vet Rec** 1997 May 3;140(18):481-3

[Goniodysplasia in the Bouvier des Flandres] Rühli MB, et al. **Schweiz Arch Tierheilkd** 1996;138(6):307-11 (Eng. Abstr.) **(Ger)**

GLAUCOMA, ANGLE-CLOSURE

Angle-closure glaucoma. Khan A. **Mt Sinai J Med** 1997 Sep-Oct;64(4-5):354

[Eye diseases in the elderly] Inomata H, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jun;33(6):419-23 (5 ref.) **(Jpn)**

CHEMICALLY INDUCED

Acute angle closure glaucoma associated with paroxetine. Eke T, et al. **BMJ** 1997 May 10;314(7091):1387

Bilateral acute angle closure glaucoma after administration of paroxetine [letter] Kirwan JF, et al. **Br J Ophthalmol** 1997 Mar;81(3):252

Angle closure glaucoma complicating systemic atropine use in the cardiac catheterization laboratory. Mandak JS, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):262-4

Acute angle-closure glaucoma and paroxetine [letter] Lewis CF, et al. **J Clin Psychiatry** 1997 Mar;58(3):123-4

Pupillary block glaucoma due to residual perfluoro-decalin. Alster Y, et al. **Ophthalmic Surg Lasers** 1996 May; 27(5):395-6

COMPLICATIONS

Angle-closure glaucoma in a 10-year-old girl. Fivgas GD, et al. **Am J Ophthalmol** 1997 Aug;124(2):251-3

Extracapsular cataract extraction with posterior chamber lens implantation in primary angle-closure glaucoma. Acton J, et al. **J Cataract Refract Surg** 1997 Jul-Aug;23(6):930-4

Cataract extraction and intraocular lens implantation in eyes with phacomorphic or phacolytic glaucoma. McKibbin M, et al. **J Cataract Refract Surg** 1996 Jun;22(5):633-6

Exfoliation syndrome. Lin YJ, et al. **J Formos Med Assoc** 1996 Mar;95(3):263-6

DIAGNOSIS

Misdiagnosis of acute angle closure glaucoma. Siriwardena D, et al. **Age Ageing** 1996 Nov;25(6):421-3

The flashlight test and van Herick's test are poor predictors for occludable angles. Thomas R, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):251-6

Uveal effusion syndrome. Higginbotham E, et al. **J Glaucoma** 1996 Feb;5(1):63-7

DRUG THERAPY

A long-term dose-response study of mitomycin in glaucoma filtration surgery [see comments] Robin AL, et al. **Arch Ophthalmol** 1997 Aug;115(8):969-74. Comment in: Arch Ophthalmol 1997 Aug;115(8):1068-9.

A comparative study of Ocusert Pilo 40, intensive pilocarpine and low-dose pilocarpine in the initial treatment of primary acute angle-closure glaucoma. Edwards RS. **Curr Med Res Opin** 1997;13(9):501-9

Treatment of the fellow eye in acute angle-closure glaucoma: a case report and survey of members of the American Glaucoma Society [see comments] Davidorf JM, et al. **J Glaucoma** 1996 Aug;5(4):228-32. Comment in: J Glaucoma 1996 Aug;5(4):225-7.

The pilocarpine paradox [editorial; comment] Ritch R. **J Glaucoma** 1996 Aug;5(4):225-7 (33 ref.). Comment on: J Glaucoma 1996 Aug;5(4):228-32.

Bilateral angle closure glaucoma in HIV infection. Zambarakji HJ, et al. **J R Soc Med** 1996 Oct;89(10):581-2

EPIDEMIOLOGY

The incidence of primary angle-closure glaucoma in Olmsted County, Minnesota. Erie JC, et al. **Arch Ophthalmol** 1997 Feb;115(2):177-81

Glaucoma in Mongolia. A population-based survey in Hövsgöl province, northern Mongolia [see comments] Foster PJ, et al. **Arch Ophthalmol** 1996 Oct;114(10):1235-41 . Comment in: Arch Ophthalmol 1996 Oct;114(10):1251.

Glaucoma in Mongolia [editorial; comment] Javitt J. **Arch Ophthalmol** 1996 Oct;114(10):1251. Comment on: Arch Ophthalmol 1996 Oct;114(10):1235-41.

[Predisposing factors in angle closure] Cernea P, et al. **Oftalmologia** 1996 Jul-Sep;40(3):223-8 (Eng. Abstr.) **(Rum)**

ETHNOLOGY

Biometry and primary angle-closure glaucoma among chinese, white, and black populations. Congdon NG, et al. **Ophthalmology** 1997 Sep;104(9):1489-95

Occludable angles in a Vietnamese population [letter; comment] Courtright P, et al. **Ophthalmology** 1997 May; 104(5):733-4. Comment on: Ophthalmology 1996 Sep;103(9):1426-31.

A high prevalence of occludable angles in a Vietnamese population [see comments] Nguyen N, et al. **Ophthalmology** 1996 Sep;103(9):1426-31. Comment in: Ophthalmology 1997 May;104(5):733-4.

ETIOLOGY

Angle closure caused by multiple, bilateral iridociliary cysts. Tanihara H, et al. **Acta Ophthalmol Scand** 1997 Apr; 75(2):216-7

Pupillary block, angle-closure glaucoma produced by an anterior chamber air bubble in a nanophthalmic [corrected] eye [letter; comment] [published erratum appears in Arch Ophthalmol 1997 Sep;115(9):1112] Shugar JK. **Arch Ophthalmol** 1997 Mar;115(3):432. Comment on: Arch Ophthalmol 1996 Sep;114(9):1145-6.

Iridoschisis: high frequency ultrasound imaging. Evidence for a genetic defect? Danias J, et al. **Br J Ophthalmol** 1996 Dec;80(12):1063-7

Angle closure glaucoma as a presenting sign of Vogt-Koyanagi-Harada syndrome [letter] Rathinam SR, et al. **Br J Ophthalmol** 1997 Jul;81(7):608-9

Glaucoma after cataract extraction and posterior chamber lens implantation in children. Brady KM, et al. **J Cataract Refract Surg** 1997;23 Suppl 1:669-74

Familial exudative vitreoretinopathy associated with nonneovascular chronic angle-closure glaucoma. Azuara-Blanco A, et al. **J Glaucoma** 1997 Feb;6(1):47-9

Glaucoma in mucopolysaccharidosis 1-H/S. Mullaney P, et al. **J Pediatr Ophthalmol Strabismus** 1996 Mar-Apr; 33(2):127-31

Non-rubeotic angle-closure glaucoma associated with ciliary medulloepithelioma. Katsushima H, et al. **Jpn J Ophthalmol** 1996;40(2):244-50

Annular peripheral choroidal detachment simulating aqueous misdirection after glaucoma surgery. Dugel PU, et al. **Ophthalmology** 1997 Mar;104(3):439-44

[Acute glaucoma caused by massive subretinal hemorrhage in age-related macular degeneration and disordered thrombocyte function] Poller S, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):384-7 (Eng. Abstr.) **(Ger)**

[Acute angle-closure glaucoma after total hip replacement surgery] Ujino H, et al. **Masui** 1997 Jun;46(6):823-6 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Corneal endothelial cell density in glaucoma. Gagnon MM, et al. **Cornea** 1997 May;16(3):314-8

Conjunctival impression cytology of the filtering bleb. Kim JW. **Korean J Ophthalmol** 1997 Jun;11(1):25-31

PHYSIOPATHOLOGY

Glaucoma and visual outcome in central retinal vein occlusion. Moisseiev J, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):368-71

Evaluation of pupillary block component in angle-closure glaucoma. Hong C, et al. **Jpn J Ophthalmol** 1996; 40(2):239-43

PREVENTION & CONTROL

Should patients with anatomically narrow angles have prophylactic iridectomy? Wilensky JT, et al. **Surv Ophthalmol** 1996 Jul-Aug;41(1):31-6 (35 ref.)

[A role of oblique flashlight test in screening for primary angle closure glaucoma] Yu Q, et al. **Yen Ko Hsueh Pao** 1995 Dec;11(4):177-9 (Eng. Abstr.) **(Chi)**

[The study of grading standard photos of oblique flashlight test] Yu Q, et al. **Yen Ko Hsueh Pao** 1995 Jun;11(2):80-5 (Eng. Abstr.) **(Chi)**

SURGERY

Prospective study of ab externo erbium:YAG laser sclerostomy in humans. Jacobi PC, et al. **Am J Ophthalmol** 1997 Apr;123(4):478-86

Short-term results of initial trabeculectomy with intraoperative or postoperative 5-fluorouracil for primary glaucomas. Lamba PA, et al. **Indian J Ophthalmol** 1996 Sep;44(3):157-60

Histopathologic findings following contact transscleral semiconductor diode laser cyclophotocoagulation in a human eye. Feldman RM, et al. **J Glaucoma** 1997 Apr; 6(2):139-40

The pilocarpine paradox [editorial; comment] Ritch R. **J Glaucoma** 1996 Aug;5(4):225-7 (33 ref.). Comment on: J Glaucoma 1996 Aug;5(4):228-32.

Surgical reconstruction for angle-closure glaucoma due to a flat anterior chamber following trabeculectomy. Tanihara H, et al. **Ophthalmic Surg Lasers** 1997 Jun;28(6):510-2

Dilated, miotic-resistant pupil and laser iridotomy in primary angle-closure glaucoma. Kim YY, et al. **Ophthalmologica** 1997;211(4):205-8

A ten-year follow-up on a prospective, randomized trial of postoperative corticosteroids after trabeculectomy. Araujo SV, et al. **Ophthalmology** 1995 Dec;102(12):1753-9

Vitrectomy for ciliary block (malignant) glaucoma. Byrnes GA, et al. **Ophthalmology** 1995 Sep;102(9):1308-11

Clinical course and outcome of primary acute angle-closure glaucoma in Singapore. Wong JS, et al. **Singapore Med J** 1997 Jan;38(1):16-8

[Trabeculectomy combined with extracapsular cataract extraction and posterior chamber intraocular lens implantation] Chen W, et al. **Yen Ko Hsueh Pao** 1995 Dec; 11(4):205-7 (Eng. Abstr.) **(Chi)**

[Posterior chamber intraocular lens implantation in filtered glaucoma eyes] Liu Y, et al. **Yen Ko Hsueh Pao** 1995 Jun; 11(2):89-91 (Eng. Abstr.) **(Chi)**

ULTRASONOGRAPHY

Ultrasound biomicroscopic findings of acute angle-closure glaucoma in Vogt-Koyanagi-Harada syndrome. Kishi A, et al. **Am J Ophthalmol** 1996 Nov;122(5):735-7

Appositional angle closure in eyes with narrow angles: an ultrasound biomicroscopic study. Sakuma T, et al. **J Glaucoma** 1997 Jun;6(3):165-9

[Ultrasonic biomicroscopy in the diagnosis of glaucoma] Cârstocea B, et al. **Oftalmologia** 1996 Oct-Dec;40(4):417-9 (Eng. Abstr.) **(Rum)**

GLAUCOMA CAPSULARE see **EXFOLIATION SYNDROME**

GLAUCOMA, CLOSED-ANGLE see **GLAUCOMA, ANGLE-CLOSURE**

GLAUCOMA, NEOVASCULAR

DIAGNOSIS

Ring melanoma of the anterior uvea presenting as unilateral neovascular glaucoma. Allaire GS, et al. **Can J Ophthalmol** 1997 Aug;32(5):338-41 (14 ref.)

ETIOLOGY

Neovascular glaucoma after carotid endarterectomy. Nguyen

QH, et al. **Ophthalmic Surg Lasers** 1996 Oct;27(10):881–4

Neovascular glaucoma developing after uncomplicated cataract surgery for heavily irradiated eyes. Kwok SK, et al. **Ophthalmology** 1997 Jul;104(7):1112–5

PATHOLOGY

Neovascular tissue in the intertrabecular spaces in eyes with neovascular glaucoma. Kubota T, et al. **Br J Ophthalmol** 1996 Aug;80(8):750–4

PHYSIOPATHOLOGY

Vascular endothelial growth factor level in aqueous humor of diabetic patients with rubeotic glaucoma is markedly elevated [letter] Sone H, et al. **Diabetes Care** 1996 Nov; 19(11):1306–7

Marked decrease in intraocular pressure in a neovascular glaucoma patient during hemodialysis. Tokuyama T, et al. **Jpn J Ophthalmol** 1997 Mar–Apr;41(2):101–3

SURGERY

The mechanism of intraocular pressure rise during cyclocryotherapy. Geyer O, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):1012–7

Neovascular glaucoma [letter] Frenkel RE, et al. **J Glaucoma** 1996 Apr;5(2):150

Sympathetic ophthalmia following cyclocryotherapy with histopathologic correlation. Biswas J, et al. **Ophthalmic Surg Lasers** 1996 Dec;27(12):1035–8

Long-term results of Krupin–Denver valve implants in filtering surgery for neovascular glaucoma. Mastropasqua L, et al. **Ophthalmologica** 1996;210(4):203–6

Tube-shunt surgery versus neodymium:YAG cyclophotocoagulation in the management of neovascular glaucoma. Eid TE, et al. **Ophthalmology** 1997 Oct; 104(10):1692–700

Experience with the Baerveldt glaucoma implant in treating neovascular glaucoma. Sidoti PA, et al. **Ophthalmology** 1995 Jul;102(7):1107–18

Combined transscleral diode laser cyclophotocoagulation and transscleral retinal photocoagulation for refractory neovascular glaucoma. Tsai JC, et al. **Retina** 1996; 16(2):164–6

[Treatment of neovascular glaucoma by anterior retinal cryotherapy and trabeculectomy] Ma L, et al. **Chung Hua Yen Ko Tsa Chih** 1996 Mar;32(2):118–22 (Eng. Abstr.) **(Chi)**

GLAUCOMA, OPEN-ANGLE

The concept of chronic open-angle glaucoma: a personal view. Drance SM. **Ophthalmologica** 1996;210(5):251–6 (53 ref.)

BLOOD

Total cholesterol and high-density lipoprotein levels as risk factors for increased intraocular pressure. Stewart WC, et al. **Am J Ophthalmol** 1996 Oct;122(4):575–7

Activated protein C resistance—low incidence in glaucomatous optic disc haemorrhage and central retinal vein occlusion. Graham SL, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):199–205

Plasma and aqueous humor endothelin levels in primary open-angle glaucoma. Tezel G, et al. **J Glaucoma** 1997 Apr;6(2):83–9

The effects of the beta-adrenergic-blocking agents, timolol and carteolol, on plasma lipids and lipoproteins in Japanese glaucoma patients. Yamamoto T, et al. **J Glaucoma** 1996 Aug;5(4):252–7

[The study of correlation between hemorrheology and fluorescein angiography in open-angle glaucoma] Liu X, et al. **Yen Ko Hsueh Pao** 1995 Jun;11(2):73–5 (Eng. Abstr.) **(Chi)**

CHEMICALLY INDUCED

Inhaled and nasal glucocorticoids and the risks of ocular hypertension or open-angle glaucoma. Friday GA. **Clin Pediatr (Phila)** 1997 Sep;36(9):551

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Macris N. **JAMA** 1997 Jun 25;277(24):1929; discussion 1930. Comment on: JAMA 1997 Mar 5;277(9):722–7.

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Murray MD. **JAMA** 1997 Jun 25;277(24):1930. Comment on: JAMA 1997 Mar 5;277(9):722–7.

CLASSIFICATION

Progressive normal-tension glaucoma. I. Analysis. Werner E. **J Glaucoma** 1996 Dec;5(6):422–6

The 'GIST' score: ranking glaucoma for genetic studies. Glaucoma Inheritance Study of Tasmania. Coote MA, et al. **Ophthalmic Genet** 1996 Dec;17(4):199–208

COMPLICATIONS

Phaco-emulsification of cataract in eyes with glaucoma. Peräsalo R. **Acta Ophthalmol Scand** 1997 Jun;75(3):299–300

Use of methylphenidate in a patient with glaucoma and attention-deficit hyperactivity disorder: a clinical dilemma [letter] Bartlik B, et al. **Arch Gen Psychiatry** 1997 Feb; 54(2):188–9

Central corneal thickness in normal, glaucomatous, and ocular hypertensive eyes. Herndon LW, et al. **Arch Ophthalmol** 1997 Sep;115(9):1137–41

Schwartz–Matsuo syndrome: atypical presentation as acute open angle glaucoma [letter] Callender D, et al. **Br J Ophthalmol** 1997 Jul;81(7):609–10

High spatial resolution automated perimetry in glaucoma. Westcott MC, et al. **Br J Ophthalmol** 1997 Jun;81(6):452–9

Clinical use of a new method for visual field damage classification in glaucoma. Brusini P. **Eur J Ophthalmol** 1996 Oct–Dec;6(4):402–7

Correlation between ocular hypertension induced by ibopamine and perimetric defect in primary open-angle glaucoma. De Gregorio F, et al. **Eur J Ophthalmol** 1997 Apr–Jun;7(2):152–5

Primary open angle glaucoma and hypothyroidism: chance or true association? Gillow JT, et al. **Eye** 1997;11 (Pt 1):113–4

Silent myocardial ischemia in glaucoma and cataract patients. Waldmann E, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Oct;234(10):595–8

Severity of optic nerve damage in eyes with POAG is correlated with changes in the trabecular meshwork. Gottanka J, et al. **J Glaucoma** 1997 Apr;6(2):123–32

Photographic documentation of the loss of medullated nerve fibers of the retina in uncontrolled primary open angle glaucoma. Katz SE, et al. **J Glaucoma** 1996 Dec;5(6):406–9

Lens choice in complicated cataract extraction in glaucomatous eyes. Meyer MA, et al. **J Glaucoma** 1997 Feb;6(1):56–61

Malignant bilateral exophthalmos and secondary glaucoma in iatrogenic Cushing's syndrome. Boschi A, et al. **Ophthalmic Surg Lasers** 1997 Apr;28(4):318–20

Severe myopia as a risk factor for progressive visual field loss in primary open-angle glaucoma. Chihara E, et al. **Ophthalmologica** 1997;211(2):66–71

Repeatable diffuse visual field loss in open-angle glaucoma. Chauhan BC, et al. **Ophthalmology** 1997 Mar;104(3):532–8

Open-angle glaucoma and diabetes: the Blue Mountains eye study, Australia. Mitchell P, et al. **Ophthalmology** 1997 Apr; 104(4):712–8

[Glaucoma and risk factors. Comparative study of cardiovascular risk factors in primary open-angle glaucoma, normal-pressure glaucoma and simple ocular hypertension] Mermoud A. **Rev Med Suisse Romande** 1996 Jan;116(1):51–8 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

The full-field flicker test in early diagnosis of chronic open-angle glaucoma. Horn FK, et al. **Am J Ophthalmol** 1997 Mar;123(3):313–9

GP screening for glaucoma [letter; comment] McCartney PJ. **Aust N Z J Ophthalmol** 1996 May;24(2):162–3. Comment on: Aust N Z J Ophthalmol 1995 Aug;23(3):173–8. Comment on: Aust N Z J Ophthalmol 1995 Aug;23(3):179–81.

Age-related ocular diseases. Li W. **Chin Med J (Engl)** 1996 Jan;109(1):65–7 (15 ref.)

Sphenoidal ridge meningioma masquerade: glaucoma with a sphenoidal ridge meningioma [letter] Watts P, et al. **Eye** 1996;10 (Pt 5):629–34

Ibopamine in glaucoma diagnostics: a new pharmacological provocative test. De Gregorio F, et al. **Int Ophthalmol** 1996–97;20(1–3):151–5

Comparison of psychophysical and electrophysiological testing in early glaucoma. Graham SL, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2651–62

Fluorometry of the crystalline lens for correcting blue-on-yellow perimetry results. Teesalu P, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):697–703

Detection of structural damage from glaucoma with confocal laser image analysis. Uchida H, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2393–401

Variability in patients with glaucomatous visual field damage is reduced using size V stimuli. Wall M, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):426–35

Glaucoma: still number one [editorial] Classé JG. **J Am Optom Assoc** 1996 Aug;67(8):442–3

Automated perimetry in primary open-angle glaucoma. Chen YF, et al. **J Formos Med Assoc** 1997 Jun;96(6):441–5

Intra- and interrater agreement with cumulative defect curves. Chan AB, et al. **J Glaucoma** 1997 Apr;6(2):117–22

Correlation between the visual field indices and Heidelberg retina tomograph parameters. Iester M, et al. **J Glaucoma** 1997 Apr;6(2):78–82

Brightness discrimination test is not useful in screening for open angle glaucoma. Peter E, et al. **J Glaucoma** 1996 Jun; 5(3):182–6

Cost effectiveness of screening for primary open angle glaucoma. Boivin JF, et al. **J Med Screen** 1996;3(3):154–63

The cost-effectiveness of various modes of screening for primary open angle glaucoma. Tuck MW, et al. **Ophthalmic Epidemiol** 1997 Mar;4(1):3–17

Value of logistic discriminant analysis for interpreting initial visual field defects. Antón A, et al. **Ophthalmology** 1997 Mar;104(3):525–31

[Effect of the contour line on cup surface using the Heidelberg Retina Tomograph] Bartz-Schmidt KU, et al. **Klin Monatsbl Augenheilkd** 1996 Nov;209(5):292–7 (Eng. Abstr.) **(Ger)**

[Fuchs' heterochromic cyclitis. Clinico–histopathologic findings of nodular iritis] Dithmar S, et al. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep;209(2–3):158–62 (Eng. Abstr.) **(Ger)**

[Video stereophotography of the optic papilla. A practice-oriented documentation] Strasser G. **Klin Monatsbl Augenheilkd** 1997 Mar;210(3):aA8–9 (Eng. Abstr.) **(Ger)**

[Pattern electroretinography in routine clinical diagnosis of open angle glaucoma] Breidenbach K, et al. **Ophthalmologe** 1996 Aug;93(4):451–5 (Eng. Abstr.) **(Ger)**

[Chronic open angle glaucoma: correlation of pattern electroretinography and visual field indices] Neppert B, et al. **Ophthalmologe** 1996 Oct;93(5):539–43 (Eng. Abstr.) **(Ger)**

[Can the extent of glaucoma damage be quantified with laser polarimetry by in vivo measurement of retinal nerve fiber density? A clinical study] Serguhn S, et al. **Ophthalmologe** 1996 Oct;93(5):527–34 (Eng. Abstr.) **(Ger)**

[Value of scanning laser ophthalmoscopy and polarimetry compared with perimetry in evaluating glaucomatous changes in the optic papilla and nerve fiber layer] Stürmer J, et al. **Ophthalmologe** 1996 Oct;93(5):520–6 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

The effects of nasolacrimal canal blockage on topical medications for glaucoma. Aritürk N, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):411–3

Safety of beta-adrenergic blocker washout period in clinical trials. Stroman GA, et al. **Acta Ophthalmol Scand** 1997 Feb; 75(1):94–5

Topical beta-blockade with intrinsic sympathomimetic activity offers no advantage for the respiratory and cardiovascular function of elderly people. Diggory P, et al. **Age Ageing** 1996 Nov;25(6):424–8

Glaucoma therapy may take your breath away. Diggory P, et al. **Age Ageing** 1997 Mar;26(2):63–7 (24 ref.)

Cardiovascular effects of topical carteolol hydrochloride and timolol maleate in patients with ocular hypertension and primary open-angle glaucoma. Night Study Group. Netland PA, et al. **Am J Ophthalmol** 1997 Apr; 123(4):465–77

A long-term dose-response study of mitomycin in glaucoma filtration surgery [see comments] Robin AL, et al. **Arch Ophthalmol** 1997 Aug;115(8):969–74. Comment in: Arch Ophthalmol 1997 Aug;115(8):1068–9.

A 1-year study of brimonidine twice daily in glaucoma and ocular hypertension. A controlled, randomized, multicenter clinical trial. Chronic Brimonidine Study Group. Schuman JS, et al. **Arch Ophthalmol** 1997 Jul;115(7):847–52

Latanoprost and hyperpigmentation of eyelashes [letter] Wand M. **Arch Ophthalmol** 1997 Sep;115(9):1206–8

Effect of oral nifedipine on ocular blood flow in patients with low tension glaucoma. Geyer O, et al. **Br J Ophthalmol** 1996 Dec;80(12):1060–2

Latanoprost. A review of its pharmacological properties, clinical efficacy and tolerability in the management of primary open-angle glaucoma and ocular hypertension. Patel SS, et al. **Drugs Aging** 1996 Nov;9(5):363–78 (83 ref.)

Clinical evaluation of the effect of mitomycin-C in re-operation for primary open angle glaucoma. Andreanos D, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):49–54

A new angiotensin-II- receptor blocker, CGP 48933: local tolerance and effect on intraocular pressure. A pilot study. Kaiser HJ, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):35–9

Low-dosage mitomycin C as an adjunct to trabeculectomy. A prospective controlled study. Martini E, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):40–8

A new transdermal delivery system for pilocarpine in glaucoma treatment. Dinslage S, et al. **Ger J Ophthalmol** 1996 Sep;5(5):275–80

A comparative evaluation of pilocarpine 1% and clonidine 0.125% versus timolol 0.5%. Sihota R, et al. **Indian J Ophthalmol** 1996 Jun;44(2):87–9

New medical therapies for glaucoma. Drake MV. **Int Ophthalmol Clin** 1996 Spring;36(2):53–60 (29 ref.)

Efficacy of silicone punctal plugs as adjuncts to topical pharmacotherapy of glaucoma—a pilot study. Punctal Plugs in Glaucoma Study Group. Bartlett JD, et al. **J Am Optom Assoc** 1996 Nov;67(11):664–8

The effect of a medication alarm device on patient compliance with topical pilocarpine. Laster SF, et al. **J Am Optom Assoc** 1996 Nov;67(11):654–8

Lack of effect of calcium channel blockers on open-angle glaucoma. Liu S, et al. **J Glaucoma** 1996 Jun;5(3):187–90

The effects of the beta-adrenergic-blocking agents, timolol and carteolol, on plasma lipids and lipoproteins in Japanese glaucoma patients. Yamamoto T, et al. **J Glaucoma** 1996 Aug;5(4):252–7

Timolol hemihydrate: a new formulation of timolol for the treatment of glaucoma. Stewart WC. **J Ocul Pharmacol Ther** 1996 Summer;12(2):225–37 (30 ref.)

Effect of dapiprazole, an alpha-adrenergic blocking agent, on aqueous humor dynamics in pigmentary glaucoma. Mastropasqua L, et al. **Ophthalmic Res** 1996;28(5):312–8

The usefulness of dapiprazole, an alpha-adrenergic blocking agent, in pigmentary glaucoma. Mastropasqua L, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):806–9

Sustained-release subconjunctival 5-fluorouracil. Smith TJ, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):763–7

Effects on intraocular pressure and side effects of 0.005%

latanoprost applied once daily, evening or morning. A comparison with timolol. Scandinavian Latanoprost Study Group. Alm A, et al. **Ophthalmology** 1995 Dec; 102(12):1743–52

Validation of a questionnaire for comparing the tolerability of ophthalmic medications [published erratum appears in Ophthalmology 1997 May;104(5):736, 890–3] Barber BL, et al. **Ophthalmology** 1997 Feb;104(2):334–42

Nimodipine, a centrally active calcium antagonist, exerts a beneficial effect on contrast sensitivity in patients with normal–tension glaucoma and in control subjects. Bose S, et al. **Ophthalmology** 1995 Aug;102(8):1236–41

Latanoprost, a prostaglandin analog, for glaucoma therapy. Efficacy and safety after 1 year of treatment in 198 patients. Latanoprost Study Groups. Camras CB, et al. **Ophthalmology** 1996 Nov;103(11):1916–24

Brimonidine tartrate: a one–month dose response study [published erratum appears in Ophthalmology 1997 Mar;104(3):346] Derick RJ, et al. **Ophthalmology** 1997 Jan; 104(1):131–6

A comparative study of two dose regimens of latanoprost in patients with elevated intraocular pressure. Lusky M, et al. **Ophthalmology** 1997 Oct;104(10):1720–4

The novel dopamine D–1 antagonist and D–2 agonist, SDZ GLC–756, lowers intraocular pressure in healthy human volunteers and in patients with glaucoma. Prünte C, et al. **Ophthalmology** 1995 Sep;102(9):1291–7

Additive ocular hypotensive effect of latanoprost and acetazolamide. A short–term study in patients with elevated intraocular pressure. Rulo AH, et al. **Ophthalmology** 1997 Sep;104(9):1503–7

Association of retinal capillary perfusion with visual status during chronic glaucoma therapy. Sponsel WE, et al. **Ophthalmology** 1997 Jun;104(6):1026–32

Phase III latanoprost studies in Scandinavia, the United Kingdom and the United States. Alm A, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S105–10 (23 ref.)

Reduced intraocular pressure and increased ocular perfusion pressure in normal tension glaucoma: a review of short–term studies with three dose regimens of latanoprost treatment. Greve EL, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S89–92 (18 ref.)

Circadian intraocular pressure management with latanoprost: diurnal and nocturnal intraocular pressure reduction and increased uveoscleral outflow. Mishima HK, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S139–44 (26 ref.)

Clinical experience with brimonidine 0.2% and timolol 0.5% in glaucoma and ocular hypertension. Schuman JS. **Surv Ophthalmol** 1996 Nov;41 Suppl 1:S27–37

A comparison of the safety and efficacy of twice daily brimonidine 0.2% versus betaxolol 0.25% in subjects with elevated intraocular pressure. The Brimonidine Study Group III. Serle JB. **Surv Ophthalmol** 1996 Nov;41 Suppl 1:S39–47

Development and use of brimonidine in treating acute and chronic elevations of intraocular pressure: a review of safety, efficacy, dose response, and dosing studies. Walters TR. **Surv Ophthalmol** 1996 Nov;41 Suppl 1:S19–26 (26 ref.)

The role of brimonidine in the treatment of open–angle glaucoma. Wilensky JT. **Surv Ophthalmol** 1996 Nov;41 Suppl 1:S3–7 (24 ref.)

Clinical evaluation of UF–021 (Rescula; isopropyl unoprostone). Yamamoto T, et al. **Surv Ophthalmol** 1997 Feb;41 Suppl 2:S99–103

Ocular hypotensive efficacy and safety of a combined formulation of betaxolol and pilocarpine. Robin AL. **Trans Am Ophthalmol Soc** 1996;94:89–101; discussion 101–3

[Chronic open–angle glaucoma] Béchetoille A, et al. **J Fr Ophtalmol** 1997;20(2):166–8 **(Fre)**

[Xalatan—a new way to treat open angle glaucoma and intraocular hypertension. Physiologic enhancement of the flow of anterior chamber fluid] **Klin Monatsbl Augenheilkd** 1997 Aug;211(2 Suppl Xalatan):1–4 **(Ger)**

[Effect of nifedipine on ocular pulse amplitude in normal pressure glaucoma] Schmidt KG, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):355–9 (Eng. Abstr.) **(Ger)**

[Carbonic anhydrase inhibitors with topical action in the treatment of glaucomatous diseases. A preliminary note] Gafencu O, et al. **Oftalmologia** 1997;41(1):66–8 (Eng. Abstr.) **(Rum)**

[Beta–blockers in the treatment of open–angle glaucoma] Potocký M, et al. **Cesk Slov Oftalmol** 1996 Nov; 52(6):399–402 (Eng. Abstr.) **(Slo)**

ECONOMICS

Daily cost of beta–adrenergic blocker therapy [see comments] Stewart WC, et al. **Arch Ophthalmol** 1997 Jul;115(7):853–6 . Comment in: Arch Ophthalmol 1997 Jul;115(7):914.

EPIDEMIOLOGY

Glaucoma in Mongolia. A population–based survey in Hövsgöl province, northern Mongolia [see comments] Foster PJ, et al. **Arch Ophthalmol** 1996 Oct;114(10):1235–41 . Comment in: Arch Ophthalmol 1996 Oct;114(10):1251.

Glaucoma in Mongolia [editorial; comment] Javitt J. **Arch Ophthalmol** 1996 Oct;114(10):1251. Comment on: Arch Ophthalmol 1996 Oct;114(10):1235–41.

Models of open–angle glaucoma prevalence and incidence in the United States. Quigley HA, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):83–91

Analyses of reported family history of glaucoma: a preliminary investigation. The Barbados Eye Study Group. Nemesure B, et al. **Ophthalmic Epidemiol** 1996 Dec; 3(3):135–41

The prevalence and implications of ocular hypertension and glaucoma in thyroid–associated orbitopathy. Cockerham KP, et al. **Ophthalmology** 1997 Jun;104(6):914–7

Prevalence of open–angle glaucoma in Australia. The Blue Mountains Eye Study. Mitchell P, et al. **Ophthalmology** 1996 Oct;103(10):1661–9

Is there an association between migraine headache and open–angle glaucoma? Findings from the Blue Mountains Eye Study. Wang JJ, et al. **Ophthalmology** 1997 Oct; 104(10):1714–9

ETHNOLOGY

Distribution of intraocular pressure. The Barbados Eye Study. Leske MC, et al. **Arch Ophthalmol** 1997 Aug; 115(8):1051–7

ETIOLOGY

Histology of posterior scleral foramen in normal eyes: its possible role in optic nerve damage in chronic open angle glaucoma. Yanko L, et al. **Isr J Med Sci** 1996 Sep; 32(9):741–4

Hypothyroidism—a possible etiology of open–angle glaucoma. McDaniel D, et al. **J Am Optom Assoc** 1996 Feb;67(2):109–14

Glaucoma after cataract extraction and posterior chamber lens implantation in children. Brady KM, et al. **J Cataract Refract Surg** 1997;23 Suppl 1:669–74

Review of aphakic glaucoma after surgery for congenital cataract. Russell–Eggitt I, et al. **J Cataract Refract Surg** 1997;23 Suppl 1:664–8 (14 ref.)

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Cartier A, et al. **JAMA** 1997 Jun 25;277(24):1929–30. Comment on: JAMA 1997 Mar 5;277(9):722–7.

Inhaled and nasal glucocorticoids and the risks of ocular hypertension or open–angle glaucoma [see comments] Garbe E, et al. **JAMA** 1997 Mar 5;277(9):722–7. Comment in: JAMA 1997 Jun 25;277(24):1929; discussion 1930. Comment in: JAMA 1997 Jun 25;277(24):1929–30. Comment in: JAMA 1997 Jun 25;277(24):1930.

Open–angle glaucoma and ocular hypertension: the Long Island Glaucoma Case–control Study. Leske MC, et al. **Ophthalmic Epidemiol** 1996 Jun;3(2):85–96

Optic disc hemorrhages and glaucoma [letter; comment] Savage HI. **Ophthalmology** 1997 Feb;104(2):169. Comment on: Ophthalmology 1996 Jul;103(7):1014–24.

[Establishment of in vitro culture of bovine trabecular meshwork cells and their phagocytosis] Yang X, et al. **Chung Hua Yen Ko Tsa Chih** 1996 Mar;32(2):136–9 (Eng. Abstr.) **(Chi)**

[The effect of the pseudoexfoliative syndrome on the evolution and treatment of pseudoexfoliative glaucoma and senile cataract] Chiseliţă D, et al. **Oftalmologia** 1996 Jul–Sep;40(3):249–60 (Eng. Abstr.) **(Rum)**

[Contribution of free–radical reactions of chamber humor to the development of primary open–angle glaucoma] Kurysheva NI, et al. **Vestn Oftalmol** 1996 Sep–Oct; 112(4):3–5 (Eng. Abstr.) **(Rus)**

GENETICS

Molecular genetics of the glaucomas: mapping of the first five "GLC" loci [editorial; comment] Raymond V. **Am J Hum Genet** 1997 Feb;60(2):272–7 (44 ref.). Comment on: Am J Hum Genet 1997 Feb;60(2):296–304.

Mapping a gene for adult–onset primary open–angle glaucoma to chromosome 3q [see comments] Wirtz MK, et al. **Am J Hum Genet** 1997 Feb;60(2):296–304. Comment in: Am J Hum Genet 1997 Feb;60(2):272–7.

Juvenile glaucoma linked to the GLC1A gene on chromosome 1q in a Panamanian family. Lichter PR, et al. **Am J Ophthalmol** 1997 Mar;123(3):413–6

A gene responsible for the pigment dispersion syndrome maps to chromosome 7q35–q36 [see comments] Andersen JS, et al. **Arch Ophthalmol** 1997 Mar;115(3):384–8. Comment in: Arch Ophthalmol 1997 Mar;115(3):404–6.

Going forward to work backward [editorial; comment] Ritch R. **Arch Ophthalmol** 1997 Mar;115(3):404–6 (39 ref.). Comment on: Arch Ophthalmol 1997 Mar;115(3):384–8.

The genetics of primary open angle glaucoma. Booth A, et al. **Br J Ophthalmol** 1997 May;81(5):409–14 (95 ref.)

PCR–SSCP analysis of the glucocorticoid–responsive element of the atrial natriuretic peptide gene in familial primary open–angle glaucoma. Richardson KA, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):427–9

A 10–cM YAC contig spanning GLC1A, the primary open–angle glaucoma locus at 1q23–q25. Clépet C, et al. **Eur J Hum Genet** 1996;4(5):250–9

Cloning and characterization of subtracted cDNAs from a human ciliary body library encoding TIGR, a protein involved in juvenile open angle glaucoma with homology to myosin and olfactomedin. Ortego J, et al. **FEBS Lett** 1997 Aug 18;413(2):349–53

Fine mapping of the autosomal dominant juvenile open angle glaucoma (GLC1A) region and evaluation of candidate genes. Sunden SL, et al. **Genome Res** 1996 Sep;6(9):862–9

Recombinational and physical mapping of the locus for primary open–angle glaucoma (GLC1A) on chromosome 1q23–q25. Belmouden A, et al. **Genomics** 1997 Feb 1; 39(3):348–58

Localization of a locus (GLC1B) for adult–onset primary open angle glaucoma to the 2cen–q13 region. Stoilova D, et al. **Genomics** 1996 Aug 15;36(1):142–50

Age–dependent penetrance and mapping of the locus for juvenile and early–onset open–angle glaucoma on chromosome 1q (GLC1A) in a French family. Meyer A, et al. **Hum Genet** 1996 Nov;98(5):567–71

Genetic markers in primary open–angle glaucoma. Abecia E, et al. **Int Ophthalmol** 1996–97;20(1–3):79–82

Genetic mapping of autosomal dominant primary open–angle glaucoma (POAG) in Sardinia. Fossarello M, et al. **Int Ophthalmol** 1996–97;20(1–3):1–5

A gene for primary congenital glaucoma is not linked to the locus on chromosome 1q for autosomal dominant juvenile–onset open angle glaucoma. Anderson KL, et al. **J Glaucoma** 1996 Dec;5(6):416–21

Exclusion of one pedigree affected by adult onset primary open angle glaucoma from linkage to the juvenile glaucoma locus on chromosome 1q21–q31. Avramopoulos D, et al. **J Med Genet** 1996 Dec;33(12):1043–4

Genetic heterogeneity of primary open angle glaucoma and ocular hypertension: linkage to GLC1A associated with an increased risk of severe glaucomatous optic neuropathy. Brézin AP, et al. **J Med Genet** 1997 Jul;34(7):546–52

Analyses of reported family history of glaucoma: a preliminary investigation. The Barbados Eye Study Group. Nemesure B, et al. **Ophthalmic Epidemiol** 1996 Dec; 3(3):135–41

The 'GIST' score: ranking glaucoma for genetic studies. Glaucoma Inheritance Study of Tasmania. Coote MA, et al. **Ophthalmic Genet** 1996 Dec;17(4):199–208

The problem of overlapping glaucoma families in the Glaucoma Inheritance Study in Tasmania (GIST). Sack J, et al. **Ophthalmic Genet** 1996 Dec;17(4):209–14

Genetic heterogeneity in Hispanic families with autosomal dominant juvenile glaucoma. WuDunn D, et al. **Ophthalmic Genet** 1996 Sep;17(3):87–94

Identification of a gene that causes primary open angle glaucoma [see comments] Stone EM, et al. **Science** 1997 Jan 31;275(5300):668–70. Comment in: Science 1997 Jan 31;275(5300):621.

Glaucoma gene provides light at the end of the tunnel [news; comment] Vogel G. **Science** 1997 Jan 31;275(5300):621. Comment on: Science 1997 Jan 31;275(5300):668–70.

Juvenile glaucoma linked to GLC1A in a Panamanian family. Lichter PR, et al. **Trans Am Ophthalmol Soc** 1996; 94:335–46; discussion 347–51

HISTORY

Bid my eyes keep holiday. Aronson SM. **Med Health R I** 1996 Feb;79(2):44–5

IMMUNOLOGY

[Immunohemostatic mechanisms in the development of primary open–angle glaucoma] Balashova LM. **Vestn Oftalmol** 1997 Mar–Apr;113(2):42–4 (106 ref.) **(Rus)**

METABOLISM

Excitatory mechanisms in retinal ganglion cell death in primary open angle glaucoma (POAG). Dreyer EB, et al. **Clin Neurosci** 1997;4(5):270–3 (24 ref.)

Hyaluronic acid in the normal and glaucomatous optic nerve. Gong H, et al. **Exp Eye Res** 1997 Apr;64(4):587–95

A fluorophotometric study of corneal endothelium after trabeculectomy using different concentrations of Mitomycin–C. Szymanski A, et al. **Int Ophthalmol** 1996–97; 20(1–3):95–9

Increase in aqueous humor production following D1 receptors activation by means of ibopamine. Virno M, et al. **Int Ophthalmol** 1996–97;20(1–3):141–6

Glycosaminoglycan stratification of the juxtacanalicular tissue in normal and primary open–angle glaucoma. Knepper PA, et al. **Invest Ophthalmol Vis Sci** 1996 Nov; 37(12):2414–25

Tropoelastin gene expression in optic nerve heads of normal and glaucomatous subjects. Pena JD, et al. **Matrix Biol** 1996 Nov;15(5):323–30

Quantitative studies of elastin in the optic nerve heads of persons with primary open–angle glaucoma. Quigley EN, et al. **Ophthalmology** 1996 Oct;103(10):1680–5

NURSING

Computer–assisted management of primary open–angle glaucoma. Knowledge acquisition and prototype testing. Martin L. **Comput Nurs** 1996 Sep–Oct;14(5):267–71

PATHOLOGY

Differences in optic discs in low–tension glaucoma patients with relatively low or high pressures. Wang XH, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):364–7

Pathological dilemmas in the outflow system in primary open–angle glaucoma. Grierson I, et al. **Acta Ophthalmol Scand Suppl** 1997;(220):7–12; discussion 13–4 (39 ref.)

Echographic measurement of optic nerve thickness correlated with neuroretinal rim area and visual field defect

in glaucoma. Dichtl A, et al. **Am J Ophthalmol** 1996 Oct; 122(4):514–9

Indocyanine green angiography of the peripapillary region in glaucomatous eyes by confocal scanning laser ophthalmoscopy. O'Brart DP, et al. **Am J Ophthalmol** 1997 May;123(5):657–66

Mapping structural damage of the optic disk to visual field defect in glaucoma. Yamagishi N, et al. **Am J Ophthalmol** 1997 May;123(5):667–76

Optic nerve head topography in ocular hypertensive eyes using confocal scanning laser ophthalmoscopy. Zangwill LM, et al. **Am J Ophthalmol** 1996 Oct;122(4):520–5

Ultrastructural changes in the trabecular meshwork of human eyes treated with corticosteroids. Johnson D, et al. **Arch Ophthalmol** 1997 Mar;115(3):375–83

TUNEL-positive ganglion cells in human primary open-angle glaucoma. Kerrigan LA, et al. **Arch Ophthalmol** 1997 Aug;115(8):1031–5

Peripapillary fluorescein angiographic findings in primary open angle glaucoma. Yamazaki S, et al. **Br J Ophthalmol** 1996 Sep;80(9):812–7

Corneal endothelial cell density in glaucoma. Gagnon MM, et al. **Cornea** 1997 May;16(3):314–8

Correlation between the progression of optic disc and visual field changes in glaucoma. Miglior S, et al. **Curr Eye Res** 1996 Feb;15(2):145–9

Optic disc shape in glaucoma. Jonas JB, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S167–73

Optic disc morphology in "age-related atrophic glaucoma". Jonas JB, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Dec;234(12):744–9

Optic disc morphology in juvenile primary open-angle glaucoma. Jonas JB, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Dec;234(12):750–4

Peripapillary focal retinal arteriolar narrowing in open angle glaucoma. Rankin SJ, et al. **J Glaucoma** 1996 Feb;5(1):22–8

Widespread choroidal insufficiency in primary open-angle glaucoma. Yin ZQ, et al. **J Glaucoma** 1997 Feb;6(1):23–32

Relationship of nerve fiber layer defects and parafoveal visual field defects in glaucomatous eyes. Uchida H, et al. **Jpn J Ophthalmol** 1996;40(4):548–53

Conjunctival impression cytology of the filtering bleb. Kim JW. **Korean J Ophthalmol** 1997 Jun;11(1):25–31

Circumferential profiles of peripapillary surface height with confocal scanning laser ophthalmoscopy. Park HJ, et al. **Korean J Ophthalmol** 1997 Jun;11(1):7–14

Ultrastructural changes in the trabecular meshwork of juvenile glaucoma. Furuyoshi N, et al. **Ophthalmologica** 1997;211(3):140–6

Correlation between peripapiliary atrophy and optic nerve damage in normal-tension glaucoma. Park KH, et al. **Ophthalmology** 1996 Nov;103(11):1899–906

Comparative optic disc analysis in normal pressure glaucoma, primary open-angle glaucoma, and ocular hypertension. Tezel G, et al. **Ophthalmology** 1996 Dec;103(12):2105–13

[The cellular aspects of amyloid angiopathies of the iris in open-angle glaucoma] Ziangirova GG, et al. **Izv Akad Nauk Ser Biol** 1997 Mar–Apr;(2):218–23 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Venous reflex testing in glaucoma. Bojić L, et al. **Acta Med Croatica** 1997;51(3):163–5

Glaucoma and visual outcome in central retinal vein occlusion. Moisseiev J, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):368–71

Intraocular pressure and circulation at the disc in glaucoma. Hitchings RA. **Acta Ophthalmol Scand Suppl** 1997; (220):15–20; discussion 20–2 (63 ref.)

A comparison of retinal and choroidal hemodynamics in patients with primary open-angle glaucoma and normal-pressure glaucoma. Duijm HF, et al. **Am J Ophthalmol** 1997 May;123(5):644–56

Blood-flow velocities of the extraocular vessels in patients with high-tension and normal-tension primary open-angle glaucoma. Kaiser HJ, et al. **Am J Ophthalmol** 1997 Mar; 123(3):320–7

A comparative study of the effects of timolol and latanoprost on blood flow velocity of the retrobulbar vessels. Nicolela MT, et al. **Am J Ophthalmol** 1996 Dec;122(6):784–9

Scanning laser Doppler flowmeter study of retinal and optic disk blood flow in glaucomatous patients [published erratum appears in Am J Ophthalmol 1997 Apr;123(4):575] Nicolela MT, et al. **Am J Ophthalmol** 1996 Dec; 122(6):775–83

Rate of progression in open-angle glaucoma estimated from cross-sectional prevalence of visual field damage [letter; comment] Yang CB, et al. **Am J Ophthalmol** 1997 Mar; 123(3):426–8. Comment on: Am J Ophthalmol 1996 Sep;122(3):355–63.

The optic nerve head in glaucomatous optic neuropathy. Hernandez MR, et al. **Arch Ophthalmol** 1997 Mar; 115(3):389–95 (64 ref.)

Effect of arterial hypertension on the optic disc structure [letter] Jonas JB, et al. **Arch Ophthalmol** 1996 Oct; 114(10):1300–1

Diurnal intraocular pressure in untreated exfoliation and primary open-angle glaucoma. Konstas AG, et al. **Arch Ophthalmol** 1997 Feb;115(2):182–5

Effect of timolol on the diurnal intraocular pressure in exfoliation and primary open-angle glaucoma. Konstas AG, et al. **Arch Ophthalmol** 1997 Aug;115(8):975–9

Short-wavelength automated perimetry and motion automated perimetry in patients with glaucoma. Sample PA, et al. **Arch Ophthalmol** 1997 Sep;115(9):1129–33

Automated flicker perimetry in early primary open-angle glaucoma. Rota-Bartelink A, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):25–7

Decreased contrast sensitivity in normal tension glaucoma determined by pattern visually evoked cortical potentials. Sano N, et al. **Clin Neurosci** 1997;4(5):292–4

Simultaneous 24-hour monitoring of intraocular pressure and arterial blood pressure in patients with progressive and non-progressive primary open-angle glaucoma. Detry M, et al. **Eur J Ophthalmol** 1996 Jul–Sep;6(3):273–8

Diffuse and localised visual field defects to automated perimetry in primary open angle glaucoma. Mutlukan E. **Eye** 1995;9 (Pt 6):745–50

Color axis evaluation of the Farnsworth Munsell 100-hue test in primary open-angle glaucoma and normal-pressure glaucoma. Budde WM, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S180–6

Quadrant pattern ERG with SLO stimulation in normals and glaucoma patients. Horn F, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S174–9

Acetazolamide affects performance on the Nagel II anomaloscope. Leys MJ, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S193–7

Visual field progression: comparison of Humphrey Statpac2 and pointwise linear regression analysis. McNaught AI, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Jul;234(7):411–8

Relationship between optic disc cupping change and intraocular pressure control in adult glaucoma patients. Rath EZ, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Jul;234(7):434–9

Motion discrimination of single targets: comparison of preliminary findings in normal subjects and patients with glaucoma. Sahraie A, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Sep;234(9):553–60

Correlation between visual field and color Doppler parameters in chronic open angle glaucoma. Cellini M, et al. **Int Ophthalmol** 1996–97;20(4):215–9

Evaluation of the peripapillary circulation in healthy and glaucoma eyes with scanning laser Doppler flowmetry. Holló G, et al. **Int Ophthalmol** 1996–97;20(1–3):71–7

Scanning laser Doppler flowmetry in glaucoma. Holló G, et al. **Int Ophthalmol** 1996–97;20(1–3):63–70

Color Doppler imaging in untreated high- and normal-pressure open-angle glaucoma. Butt Z, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):690–6

Visual-field measurements and driving eligibility. Eldred KB, et al. **J Am Optom Assoc** 1997 Feb;68(2):109–15

Early postoperative intraocular pressure pattern in glaucomatous and nonglaucomatous patients. Barak A, et al. **J Cataract Refract Surg** 1996 Jun;22(5):607–11

Binocular function in early glaucoma. Essock EA, et al. **J Glaucoma** 1996 Dec;5(6):395–405

Nocturnal ophthalmic arterial hemodynamics in primary open-angle glaucoma. Harris A, et al. **J Glaucoma** 1997 Jun;6(3):170–4

Unilateral normal-tension glaucoma. Kitizawa Y. **J Glaucoma** 1997 Feb;6(1):50–5

Low tension glaucoma [letter; comment] Levene RZ. **J Glaucoma** 1997 Jun;6(3):198. Comment on: J Glaucoma 1997 Apr;6(2):75–7.

Influence of a dilated pupil on the visua! field in glaucoma. Mendivil A. **J Glaucoma** 1997 Aug;6(4):217–20

Perfusion of the juxtapapillary retina and the neuroretinal rim area in primary open angle glaucoma. Michelson G, et al. **J Glaucoma** 1996 Apr;5(2):91–8

Ocular hypertension and primary open-angle glaucoma: a comparative study of their retrobulbar blood flow velocity. Nicolela MT, et al. **J Glaucoma** 1996 Oct;5(5):308–10

Visual field correlations with color Doppler studies in open angle glaucoma. Rankin SJ, et al. **J Glaucoma** 1996 Feb; 5(1):15–21

Influence of diurnal variation on the intraocular pressure measurement of treated primary open-angle glaucoma during office hours. Rota-Bartelink AM, et al. **J Glaucoma** 1996 Dec;5(6):410–5

The myth of "21" [editorial] [see comments] Wilson MR. **J Glaucoma** 1997 Apr;6(2):75–7. Comment in: J Glaucoma 1997 Jun;6(3):198.

A color Doppler analysis of nifedipine-induced posterior ocular blood flow changes in open-angle glaucoma. Wilson RP, et al. **J Glaucoma** 1997 Aug;6(4):231–6

Loss of sensitivity to motion-defined form in patients with primary open-angle glaucoma and ocular hypertension. Giaschi DE, et al. **J Opt Soc Am A** 1996 Apr;13(4):707–15

Detection of disturbed autoregulation of the peripapillary choroid in primary open angle glaucoma. Ulrich A, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):746–57

Risk factors for unsatisfactory intraocular pressure control in combined trabeculectomy and cataract surgery. Yamagami S, et al. **Ophthalmic Surg Lasers** 1997 Jun; 28(6):476–82

Colour Doppler analysis of the choroidal circulation in chronic open-angle glaucoma. Cellini M, et al. **Ophthalmologica** 1996;210(4):200–2

Glaucoma, lighting and color vision. An investigation into their interrelationship. Nuzzi R, et al. **Ophthalmologica** 1997;211(1):25–31

Retinal capillary hemodynamics and VEP/pressure tolerance: evidence of retinal microcirculatory compromise in treated glaucomatous eyes. Sponsel WE, et al. **Ophthalmologica** 1997;211(3):172–7

POAG, IOP, and BP in the elderly [letter; comment] Crapotta CF. **Ophthalmology** 1995 Aug;102(8):1126. Comment on: Ophthalmology 1995 Jan;102(1):54–60.

Activation of the coagulation cascade in untreated primary open-angle glaucoma. O'Brien C, et al. **Ophthalmology** 1997 Apr;104(4):725–9; discussion 729–30

Pointwise univariate linear regression of perimetric sensitivity against follow-up time in glaucoma. Wild JM, et al. **Ophthalmology** 1997 May;104(5):808–15

Motion perception thresholds in areas of glaucomatous visual field loss. Bosworth CF, et al. **Vision Res** 1997 Feb; 37(3):355–64

Chromatic and luminance systems deficits in glaucoma. Greenstein VC, et al. **Vision Res** 1996 Feb;36(4):621–9

A study of motion perception in primary open angle glaucoma. Wang J, et al. **Yen Ko Hsueh Pao** 1996 Mar; 12(1):46–50

[Chronic glaucoma and visual fields] Béchetoille A, et al. **J Fr Ophtalmol** 1996;19(10):652–4 **(Fre)**

[Primary chronic open angle glaucoma--are there vascular risk factors?] Drance SM. **Klin Monatsbl Augenheilkd** 1996 Jun;208(6):A9–13 (58 ref.) **(Ger)**

[Effect of topical carteolol on visual function in normal-tension glaucoma] Maeda H, et al. **Nippon Ganka Gakkai Zasshi** 1997 Mar;101(3):227–31 (Eng. Abstr.) **(Jpn)**

[Intraocular pressure decrease after phacoemulsification-aspiration+ intraocular lens implantation in primary open angle glaucoma eyes] Matsumura M, et al. **Nippon Ganka Gakkai Zasshi** 1996 Nov;100(11):885–9 (Eng. Abstr.) **(Jpn)**

[Surgical effects of trabeculotomy combined with sinusotomy in advanced glaucoma patients controlled in normal intraocular pressure of 15 mmHg or higher] Mizoguchi T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Nov; 100(11):890–5 (Eng. Abstr.) **(Jpn)**

[Variations in intraocular pressure in normal-pressure glaucoma and in hypertensive open-angle glaucoma] Mocanu C. **Oftalmologia** 1996 Jul–Sep;40(3):229–36 (Eng. Abstr.) **(Rum)**

[Pupilography in early diagnosis of primary open-angle glaucoma] Khadikova EV, et al. **Vestn Oftalmol** 1997 May–Jun;113(3):12–4 (Eng. Abstr.) **(Rus)**

[Functional and morphologic changes in the posterior ocular field in relation to primary open-angle glaucoma. II. Relation of perimetry findings and the c/d ratio] Máliš V, et al. **Cesk Slov Oftalmol** 1996 Sep;52(4):226–33 (Eng. Abstr.) **(Slo)**

PSYCHOLOGY

Stress reactivity of intraocular pressure after relaxation training in open-angle glaucoma patients. Kaluza G, et al. **J Behav Med** 1996 Dec;19(6):587–98

SURGERY

Retinal vein occlusion after trabeculectomy with mitomycin C. Dev S, et al. **Am J Ophthalmol** 1996 Oct;122(4):574–5

Effect of topical anti-inflammatory treatment on the outcome of laser trabeculoplasty [letter; comment] Hollö G. **Am J Ophthalmol** 1997 Apr;123(4):570–1. Comment on: Am J Ophthalmol 1996 Sep;122(3):349–54.

Prospective study of ab externo erbium:YAG laser sclerostomy in humans. Jacobi PC, et al. **Am J Ophthalmol** 1997 Apr;123(4):478–86

Spontaneous disengagement of the Optimed implant [letter] Kim DD, et al. **Arch Ophthalmol** 1996 Nov;114(11):1420–1

Temporal corneal phacoemulsification combined with superior trabeculectomy. A retrospective case-control study. Park HJ, et al. **Arch Ophthalmol** 1997 Mar; 115(3):318–23

Suprachoroidal effusion following argon laser trabeculoplasty. Kennedy CJ, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):279–82

Technique of goniocurettage: a potential treatment for advanced chronic open angle glaucoma. Jacobi PC, et al. **Br J Ophthalmol** 1997 Apr;81(4):302–7

Is the standard approach to glaucoma therapy still appropriate? Jay JL, et al. **Can J Ophthalmol** 1996 Oct; 31(6):277–80; discussion 280–1 (41 ref.)

Late bleb leakage after trabeculectomy with 5-fluorouracil or mitomycin C. Susanna R Jr, et al. **Can J Ophthalmol** 1996 Oct;31(6):296–300

Ab interno infrared laser trabecular ablation: preliminary short-term results in patients with open-angle glaucoma. Dietlein TS, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jun;235(6):349–53

Efficacy of argon laser trabeculoplasty: 3-year preliminary results of a prospective placebo-controlled study. Ustundag C, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jun; 235(6):354–8

Short-term results of initial trabeculectomy with intraoperative or postoperative 5-fluorouracil for primary glaucomas. Lamba PA, et al. **Indian J Ophthalmol** 1996 Sep;44(3):157–60

Non-penetrating deep sclerectomy (NPDS) with or without

collagen device (CD) in primary open-angle glaucoma: middle-term retrospective study. Demailly P, et al. **Int Ophthalmol** 1996-97;20(1-3):131-40

Scleral free auto-implant plug with mitomycin as limitation of trepanosclerectomy flow in glaucoma filtering surgery. Szymanski A. **Int Ophthalmol** 1996-97;20(1-3):89-94

Trabeculotomy ab externo, cataract extraction, and intraocular lens implantation: preliminary report. Honjo M, et al. **J Cataract Refract Surg** 1996 Jun;22(5):601-6

Comparative study of the efficacy of argon laser trabeculoplasty for exfoliation and primary open-angle glaucoma. Threlkeld AB, et al. **J Glaucoma** 1996 Oct; 5(5):311-6

Erbium: YAG laser ablation on human trabecular meshwork by contract delivery endoprobes. Dietlein TS, et al. **Ophthalmic Surg Lasers** 1996 Nov;27(11):939-45

Fibrin sealant in the management of complicated hypotony after trabeculectomy. Grewing R, et al. **Ophthalmic Surg Lasers** 1997 Feb;28(2):124-7

Update on the subconjunctival THC:YAG (holmium) laser sclerostomy Ab externo clinical trial: a 4-year report. Iwach AG, et al. **Ophthalmic Surg Lasers** 1996 Oct; 27(10):823-31

Combined small-incision cataract surgery and trabeculectomy: a prospective study with 1 year of follow-up. Nielsen PJ. **Ophthalmic Surg Lasers** 1997 Jan; 28(1):21-9

Ultrastructural features of filtration blebs with different clinical appearances. Powers TP, et al. **Ophthalmic Surg Lasers** 1996 Sep;27(9):790-4

Optic disc topography before and after trabeculectomy in advanced glaucoma. Raitta C, et al. **Ophthalmic Surg Lasers** 1996 May;27(5):349-54

Mitomycin-C in laser sclerostomy: benefit and complications. Schmidt-Erfurth U, et al. **Ophthalmic Surg Lasers** 1997 Jan;28(1):14-20

Efficacy of argon laser trabeculoplasty in aphakic and pseudophakic eyes. Schwartz AL, et al. **Ophthalmic Surg Lasers** 1997 Mar;28(3):215-8

Use of oversized bandage soft contact lenses in the management of early hypotony following filtration surgery. Smith MF, et al. **Ophthalmic Surg Lasers** 1996 Jun; 27(6):417-21

Surgical reconstruction for angle-closure glaucoma due to a flat anterior chamber following trabeculectomy. Tanihara H, et al. **Ophthalmic Surg Lasers** 1997 Jun;28(6):510-2

Subconjunctival versus intrascleral mitomycin-C in trabeculectomy. Tressler CS, et al. **Ophthalmic Surg Lasers** 1996 Aug;27(8):661-6

Topical cyclosporine as a possible new antimetabolite in trabeculectomy. Turaçli ME, et al. **Ophthalmic Surg Lasers** 1996 Jun;27(6):438-44

Clinicopathologic features and surgical management of dissecting glaucoma filtering blebs. Ulrich GG, et al. **Ophthalmic Surg Lasers** 1997 Feb;28(2):151-5

A review of the outcome of trabeculectomy in open-angle glaucoma. Vesti E, et al. **Ophthalmic Surg Lasers** 1997 Feb; 28(2):128-32

Phacotrabeculectomy with or without punch: preliminary results comparing the two techniques. Crestani A, et al. **Ophthalmologica** 1997;211(2):72-4

Comment on the paper of Doctors Rouhiainen, Leino and Terävirta [letter; comment] Holló G. **Ophthalmologica** 1996;210(6):372. Comment on: Ophthalmologica 1995;209(1):21-4.

Laser trabeculoplasty for primary open-angle glaucoma. **Ophthalmology** 1996 Oct;103(10):1706-12

A ten-year follow-up on a prospective, randomized trial of postoperative corticosteroids after trabeculectomy. Araujo SV, et al. **Ophthalmology** 1995 Dec;102(12):1753-9

Blebitis, early endophthalmitis, and late endophthalmitis after glaucoma-filtering surgery. Ciulla TA, et al. **Ophthalmology** 1997 Jun;104(6):986-95

5-fluorouracil in combined trabeculectomy and clear-cornea phacoemulsification with posterior chamber intraocular lens implantation. A one-year randomized, controlled clinical trial. Gandolfi SA, et al. **Ophthalmology** 1997 Feb; 104(2):181-6

Effect of trabeculectomy on visual field performance in central 30 degrees field in progressive normal-tension glaucoma. Koseki N, et al. **Ophthalmology** 1997 Feb; 104(2):197-201

Comparative study of silicone versus acrylic foldable lens implantation in primary glaucoma triple procedure. Lemon LC, et al. **Ophthalmology** 1997 Oct;104(10):1708-13

Outcomes of trabeculectomy for primary open-angle glaucoma. Nouri-Mahdavi K, et al. **Ophthalmology** 1995 Dec;102(12):1760-9 (46 ref.)

Adjunctive subconjunctival mitomycin C in glaucoma triple procedure [see comments] Shin DH, et al. **Ophthalmology** 1995 Oct;102(10):1550-8. Comment in: Ophthalmology 1996 Mar;103(3)347-8.

Primary glaucoma triple procedure with or without adjunctive mitomycin. Prognostic factors for filtration failure [see comments] Shin DH, et al. **Ophthalmology** 1996 Nov;103(11):1925-33. Comment in: Ophthalmology 1997 Aug;104(8):1208-9.

[Trabeculectomy combined with extracapsular cataract extraction and posterior chamber intraocular lens implantation] Chen W, et al. **Yen Ko Hsueh Pao** 1995 Dec; 11(4):205-7 (Eng. Abstr.) **(Chi)**

[Posterior chamber intraocular lens implantation in filtered glaucoma eyes] Liu Y, et al. **Yen Ko Hsueh Pao** 1995 Jun; 11(2):89-91 (Eng. Abstr.) **(Chi)**

[Tonometric course after trabeculectomy. Apropos of 105 cases at the Lomé UHC] Balo KP, et al. **J Fr Ophtalmol** 1997;20(5):339-44 (Eng. Abstr.) **(Fre)**

[Non-penetrating deep sclerectomy combined with a collagen implant in primary open-angle glaucoma. Medium-term retrospective results] Demailly P, et al. **J Fr Ophtalmol** 1996;19(11):659-66 (Eng. Abstr.) **(Fre)**

[Anterior cellular proliferation and silicone implant. Apropos of a case] Pisella PJ, et al. **J Fr Ophtalmol** 1996;19(10):615-8 (Eng. Abstr.) **(Fre)**

[No-stitch phacotrabeculectomy using modified punch technique] Mohr A. **Klin Monatsbl Augenheilkd** 1997 Jan; 210(1):19-22 (Eng. Abstr.) **(Ger)**

[Risk factors for development of argon laser trabeculoplasty failure producing membrane in the chamber angle] Koller T, et al. **Ophthalmologe** 1996 Oct;93(5):552-7 (Eng. Abstr.) **(Ger)**

[Single dose intraoperative administration of 5-fluorouracil (5-FU) in trabeculectomy. Long-term results of a pilot study] Spiegel D, et al. **Ophthalmologe** 1996 Oct;93(5):561-6 (Eng. Abstr.) **(Ger)**

[Targetted ablation of the trabecular meshwork with excimer laser in primary open-angle glaucoma] Vogel M, et al. **Ophthalmologe** 1996 Oct;93(5):565-8 (Eng. Abstr.) **(Ger)**

[Surgical revision of failed filtering bleb with mitomycin C] Hara T, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jun; 101(6):516-9 (Eng. Abstr.) **(Jpn)**

[Surgical effects of trabeculotomy combined with sinusotomy in advanced glaucoma patients controlled in normal intraocular pressure of 15 mmHg or higher] Mizoguchi T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Nov; 100(11):890-5 (Eng. Abstr.) **(Jpn)**

[Long-term surgical effects of trabeculotomy combined with sinusotomy] Mizoguchi T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Aug;100(8):611-6 (Eng. Abstr.) **(Jpn)**

[Causes of progressive optic nerve dystrophy in patients with primary open-angle glaucoma after antiglaucoma surgery performed at the early stages] Zavgorodniaia NG. **Vestn Oftalmol** 1996 Jul-Aug;112(3):3-5 (Eng. Abstr.) **(Rus)**

THERAPY

A national glaucoma care program. Heijl A. **Acta Ophthalmol Scand** 1997 Jun;75(3):295-8

Therapeutic options in primary open-angle glaucoma. Wishart P. **Acta Ophthalmol Scand Suppl** 1997;(220):23-8; discussion 28-9 (41 ref.)

Surgical vs medical management of chronic open-angle glaucoma. Stewart WC, et al. **Am J Ophthalmol** 1996 Dec; 122(6):767-74

The management of primary open angle glaucoma. **Drug Ther Bull** 1997 Jan;35(1):4-6 (39 ref.)

Stress reactivity of intraocular pressure after relaxation training in open-angle glaucoma patients. Kaluza G, et al. **J Behav Med** 1996 Dec;19(6):587-98

Potential treatment modalities for glaucomatous neuropathy: neuroprotection and neuroregeneration. Schwartz M, et al. **J Glaucoma** 1996 Dec;5(6):427-32 (56 ref.)

Clinical presentation and initial treatment patterns in patients with exfoliation glaucoma versus primary open-angle glaucoma. Konstas AG, et al. **Ophthalmic Surg Lasers** 1997 Feb;28(2):111-7

ULTRASONOGRAPHY

[Ultrasonic biomicroscopy in the diagnosis of glaucoma] Cârstocea B, et al. **Oftalmologia** 1996 Oct-Dec;40(4):417-9 (Eng. Abstr.) **(Rum)**

VETERINARY

Evaluation of multiple doses of 4 and 6% timolol, and timolol combined with 2% pilocarpine in clinically normal beagles and beagles with glaucoma. Gelatt KN, et al. **Am J Vet Res** 1995 Oct;56(10):1325-31

GLAUCOMA, PIGMENTARY see **GLAUCOMA, OPEN-ANGLE**

GLAUCOMA, SIMPLE see **GLAUCOMA, OPEN-ANGLE**

GLAUCOMA SIMPLEX see **GLAUCOMA, OPEN-ANGLE**

GLAUCOMA, SUSPECT see **OCULAR HYPERTENSION**

GLENOSPORELLA see **CHRYSOSPORIUM**

GLIA see **NEUROGLIA**

GLIADIN

ADVERSE EFFECTS

Relation between gliadin structure and coeliac toxicity. Wieser H. **Acta Paediatr Suppl** 1996 May;412:3-9 (39 ref.)

Life-threatening, recurrent anaphylaxis caused by allergy to gliadin and exercise. Varjonen E, et al. **Clin Exp Allergy** 1997 Feb;27(2):162-6

Study of behavior of rats with gluten-induced enteropathy. Castany MA, et al. **Int J Neurosci** 1995 Nov;83(1-2):7-15

ANALYSIS

From image processing to classification: IV. Classification of electrophoretic patterns by neural networks and statistical methods enable quality assessment of wheat varieties for breadmaking. Jensen K, et al. **Electrophoresis** 1996 Apr;17(4):694-8

Identification of the presence of gliadin in drugs using the dot-blot assay. Stankovic I, et al. **J Pharm Biomed Anal** 1996 Jun;14(8-10):1339-42

Screening test for coeliac disease [letter; comment] Swift GL, et al. **Lancet** 1997 Apr 26;349(9060):1254. Comment on: Lancet 1997 Feb 1;349(9048):325-6.

BLOOD

Anti-endomysium and anti-gliadin antibodies as serological markers for a very late mucosal relapse in a coeliac girl [letter] Högberg L, et al. **Acta Paediatr** 1997 Mar; 86(3):335-6

CHEMISTRY

Relation between gliadin structure and coeliac toxicity. Wieser H. **Acta Paediatr Suppl** 1996 May;412:3-9 (39 ref.)

Fourier transform IR spectroscopic study of hydration-induced structure changes in the solid state of omega-gliadins. Wellner N, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):741-7

A small peptide from durum wheat gliadin prevents cell agglutination induced by prolamin-peptides toxic in coeliac disease. De Vincenzi M, et al. **Toxicology** 1997 Jul 11; 120(3):207-13

DRUG EFFECTS

Effect of gamma-interferon on binding of gliadin and other food peptides to the human intestinal cell line HT-29. Bendix U, et al. **Clin Chim Acta** 1997 May 6;261(1):69-80

Peptic-tryptic digests of gliadin: contaminating trypsin but not pepsin interferes with gastrointestinal protein binding characteristics. Bolte G, et al. **Clin Chim Acta** 1996 Mar 29;247(1-2):59-70

IMMUNOLOGY

Down syndrome and coeliac disease: usefulness of antigliadin and antiendomysium antibodies. Bonamico M, et al. **Acta Paediatr** 1996 Dec;85(12):1503-5

Anti-endomysium and anti-gliadin antibodies as serological markers for a very late mucosal relapse in a coeliac girl [letter] Högberg L, et al. **Acta Paediatr** 1997 Mar; 86(3):335-6

Serum and salivary antigliadin antibodies and serum IgA anti-endomysium antibodies as a screening test for coeliac disease. Rujner J, et al. **Acta Paediatr** 1996 Jul;85(7):814-7

Serological screening (antigliadin and antiendomysium antibodies) for non-overt coeliac disease in children of short stature. de Lecea A, et al. **Acta Paediatr Suppl** 1996 May;412:54-5

Screening for coeliac disease in apparently healthy blood donors. Grodzinsky E. **Acta Paediatr Suppl** 1996 May; 412:36-8

Results of coeliac disease screening in Estonia in 1990-1994. Uibo O, et al. **Acta Paediatr Suppl** 1996 May;412:39-41

Screening Danish blood donors for antigliadin and antiendomysium antibodies. Weile B, et al. **Acta Paediatr Suppl** 1996 May;412:46

Luminal antigliadin antibodies in small intestinal bacterial overgrowth. Riordan SM, et al. **Am J Gastroenterol** 1997 Aug;92(8):1335-8

Serological screening for coeliac disease in vitiligo and alopecia areata [letter] Volta U, et al. **Br J Dermatol** 1997 May;136(5):801-2

The IgA subclass distributions of endomysium and gliadin antibodies in human sera are different. Osman AA, et al. **Clin Chim Acta** 1996 Nov 29;255(2):145-52

Life-threatening, recurrent anaphylaxis caused by allergy to gliadin and exercise. Varjonen E, et al. **Clin Exp Allergy** 1997 Feb;27(2):162-6

Effectiveness of antigliadin antibodies as a screening test for celiac disease in children [see comments] Chartrand LJ, et al. **CMAJ** 1997 Sep 1;157(5):527-33. Comment in: CMAJ 1997 Sep 1;157(5):547-8.

Screening for celiac disease [editorial; comment] Davidson AG, et al. **CMAJ** 1997 Sep 1;157(5):547-8. Comment on: CMAJ 1997 Sep 1;157(5):527-35.

Screening for coeliac disease: the meaning of low titers of anti-gliadin antibodies (AGA) in non-coeliac children. Bonamico M, et al. **Eur J Epidemiol** 1997 Jan;13(1):55-9

Association between serum levels of total IgA and IgA class endomysial and antigliadin antibodies: implications for coeliac disease screening. Dickey W, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):559-62

Serological markers identify histologically latent coeliac disease among first-degree relatives [see comments] Vazquez H, et al. **Eur J Gastroenterol Hepatol** 1996 Jan; 8(1):15-21. Comment in: Eur J Gastroenterol Hepatol 1996 Jan;8(1):3-6.

Heterogeneous reactivity patterns of HLA-DQ-restricted, small intestinal T-cell clones from patients with celiac disease. Lundin KE, et al. **Gastroenterology** 1997 Mar; 112(3):752-9

Factors associated with serum antibodies to reticulin, endomysium, and gliadin in an adult population. McMillan

SA, et al. **Gut** 1996 Jul;39(1):43–7

Use of a threshold serum level of anti-gliadin antibodies improves diagnostic efficiency of the test in adult coeliac disease but is unreliable as a screening test. Picarelli A, et al. **Ital J Gastroenterol** 1996 Feb–Mar;28(2):70–5

Antibody pattern in childhood celiac disease. Bottaro G, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):559–62

IgA antigliadin antibodies as a screening method for nonovert celiac disease in children with insulin-dependent diabetes mellitus. Calero P, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul;23(1):29–33

Screening test for coeliac disease [letter; comment] Bürgin-Wolff A, et al. **Lancet** 1997 Jun 21;349(9068):1843–4 . Comment on: Lancet 1997 Feb 1;349(9048):325–6.

Production of antiendomysial antibodies after in-vitro gliadin challenge of small intestine biopsy samples from patients with coeliac disease [see comments] Picarelli A, et al. **Lancet** 1996 Oct 19;348(9034):1065–7. Comment in: Lancet 1996 Oct 19;348(9034):1046–7.

Production of antibodies to gliadin by peripheral blood lymphocytes in children with celiac disease: the use of an enzyme-linked immunospot technique for screening and follow-up. Hansson T, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):554–9

Thioredoxin-linked mitigation of allergic responses to wheat. Buchanan BB, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5372–7

Value of serologic markers for clinical diagnosis and population studies of coeliac disease. Ascher H, et al. **Scand J Gastroenterol** 1996 Jan;31(1):61–7

IgA antiendomysial antibodies on the umbilical cord in diagnosing celiac disease. Sensitivity, specificity, and comparative evaluation with the traditional kit. Carroccio A, et al. **Scand J Gastroenterol** 1996 Aug;31(8):759–63

Gliadin specific, HLA DQ2-restricted T cells are commonly found in small intestinal biopsies from coeliac disease patients, but not from controls. Molberg O, et al. **Scand J Immunol** 1997 Jul;46(1):103–8

Gliadin specific, HLA DQ2-restricted T cells are commonly found in small intestinal biopsies from coeliac disease patients, but not from controls. Molberg O, et al. **Scand J Immunol** 1997 Sep;46(3):103–9

[Evaluation of sensitivity and specificity of antigliadin antibodies for the diagnosis of celiac disease in childhood] Bottaro G, et al. **Minerva Pediatr** 1995 Dec;47(12):505–10 (Eng. Abstr.) **(Ita)**

METABOLISM

Effect of gamma-interferon on binding of gliadin and other food peptides to the human intestinal cell line HT-29. Bendix U, et al. **Clin Chim Acta** 1997 May 6;261(1):69–80

Peptic-tryptic digests of gliadin: contaminating trypsin but not pepsin interferes with gastrointestinal protein binding characteristics. Bolte G, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):59–70

Hydrophobic interactions between gliadin and proteins and celiac disease. Calderón de la Barca AM, et al. **Life Sci** 1996;59(23):1951–60

In vitro hydrolysis of gliadin and casein peptides: secondary defect in coeliac disease shown by organ culture. Walz f, et al. **Scand J Gastroenterol** 1996 Mar;31(3):240–6

[Intracellular transport of gliadins in enterocytes in celiac disease] Zimmer KP, et al. **Verh Dtsch Ges Pathol** 1996; 80:213 **(Ger)**

PHARMACOLOGY

Autoimmune reactions induced by gliadin feeding in germ-free AVN rats and athymic nude mice. Animal models for celiac disease. Tlaskalová-Hogenová H, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:503–5

Study of behavior of rats with gluten-induced enteropathy. Castany MA, et al. **Int J Neurosci** 1995 Nov;83(1–2):7–15

In vitro activities of A-gliadin-related synthetic peptides: damaging effect on the atrophic coeliac mucosa and activation of mucosal immune response in the treated coeliac mucosa. Maiuri L, et al. **Scand J Gastroenterol** 1996 Mar;31(3):247–53

Changes in jejunal mucosa after long-term feeding of germfree rats with gluten. Stěpánková R, et al. **Scand J Gastroenterol** 1996 Jun;31(6):551–7

GLIAL FIBRILLARY ACIDIC PROTEIN

ANALYSIS

DNA flow cytometry and glial fibrillary acidic protein reactivity in pleomorphic adenomas of the salivary glands. Desinan L, et al. **Anal Quant Cytol Histol** 1996 Oct; 18(5):355–60

Developmental analysis of GFAP immunoreactivity in the cerebellum of the meander tail mutant mouse. Grishkat HL, et al. **Anat Embryol (Berl)** 1996 Aug;194(2):135–46

Glial fibrillary acidic protein as a marker of perisinusoidal stellate cells that can distinguish between the normal and myofibroblast-like phenotypes. Buniatian G, et al. **Biol Cell** 1996;87(1–2):65–73

Evidence for reactive astrocytes in rat vestibular and cochlear nuclei following unilateral inner ear lesion. de Waele C, et al. **Eur J Neurosci** 1996 Sep;8(9):2006–18

A combined staining method for argyrophilic nucleolar organizer regions and for glial fibrillary acidic protein in astrocytes of human brain. Fushiki S, et al. **Histochem J** 1996 Jul;28(7):523–30

Postnatal morphologic changes and glial fibrillary acidic protein immunoreactivity in the anteroventral cochlear nucleus of the acoustically-deprived gerbil. Yu SM, et al. **Histol Histopathol** 1997 Jul;12(3):701–18

Effect of experimental hyperphenylalaninemia on the postnatal rat brain. Ushakova GA, et al. **Int J Dev Neurosci** 1997 Feb;15(1):29–36

Immunolocalization of glutathione reductase in the murine brain. Knollema S, et al. **J Comp Neurol** 1996 Sep 16; 373(2):157–72

Distribution of angiotensin II type-2 receptor (AT2) mRNA expression in the adult rat brain. Lenkei Z, et al. **J Comp Neurol** 1996 Sep 23;373(3):322–39

Localization of NADPH diaphorase/nitric oxide synthase in the optic nerve of the normal guinea pig: a light and electron microscopic study. Qi X, et al. **J Comp Neurol** 1996 Jul 1;370(3):396–404

The use of the glial fibrillary acidic protein (GFAP) biomarker as an early detection model of chemically induced cancer. Capó MA, et al. **J Environ Pathol Toxicol Oncol** 1997;16(1):33–9

Glial fibrillary acidic protein and vimentin in radial glia of Ambystoma mexicanum and Triturus carnifex: an immunocytochemical study. Lazzari M, et al. **J Hirnforsch** 1997;38(2):187–94

Expression of glial antigens in mouse astrocytes: species differences and regulation in vitro. Bambrick LL, et al. **J Neurosci Res** 1996 Nov 1;46(3):305–15

Detection of the peripheral nervous system (PNS)-type glial fibrillary acidic protein (GFAP) and its mRNA in human lymphocytes. Riol H, et al. **J Neurosci Res** 1997 Apr 1; 48(1):53–62

Extracellular glial fibrillary acidic protein and amino acids in brain regions of patients with subarachnoid hemorrhage--correlation with level of consciousness and site of bleeding. Runnerstam M, et al. **Neurol Res** 1997 Aug;19(4):361–8

Scrapie in mice deficient in apolipoprotein E or glial fibrillary acidic protein. Tatzelt J, et al. **Neurology** 1996 Aug; 47(2):449–53

Selective increase in astrocytic elements in the rat dentate gyrus after chronic toluene exposure studied by GFAP immunocytochemistry and electron microscopy. Fukui K, et al. **Neurosci Lett** 1996 Jan 19;203(2):85–8

A chronological study of the expression of glial fibrillary acidic protein and calbindin-D28 k by reactive astrocytes in the electrically lesioned rat brain. Ahmed BY, et al. **Neurosci Res** 1996 Nov;26(3):271–8

Polymorphous low-grade adenocarcinoma: glial fibrillary acidic protein staining in the differential diagnosis with cellular mixed tumors. Gnepp DR, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):691–5

Characteristic neuropathology of leukomalacia in extremely low birth weight infants. Deguchi K, et al. **Pediatr Neurol** 1997 May;16(4):296–300

Sequelae of parenteral domoic acid administration in rats: comparison of effects on different anatomical markers in brain. Appel NM, et al. **Synapse** 1997 Apr;25(4):350–8

BIOSYNTHESIS

Remote astroglial response associated with synaptic degeneration results in a net increase of perisynaptic glial fibrillary acidic protein. Hajós F, et al. **Acta Biol Hung** 1996;47(1–4):173–9

CNTF induces GFAP in a S-100 alpha brain cell population: the pattern of CNTF-alpha R suggests an indirect mode of action. Kahn MA, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):221–33

Co-expression of MAP-2 and GFAP in cells developing from rat EGF responsive precursor cells. Rosser AE, et al. **Brain Res Dev Brain Res** 1997 Feb 20;98(2):291–5

Astrocytic lineage analysis by detection of GFAP promoter activity in vitro. Morita N, et al. **Dev Neurosci** 1997; 19(2):210–8

Astrocyte activation by Sindbis virus: expression of GFAP, cytokines, and adhesion molecules. Brodie C, et al. **Glia** 1997 Apr;19(4):275–85

An immunocytochemical study of isolated human retinal Müller cells in culture. Arroyo JG, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jul;235(7):411–4

Glial fibrillary acidic protein and RNA expression in adult rat hippocampus following low-level lead exposure during development. Stoltenburg-Didinger G, et al. **Histochem Cell Biol** 1996 Jun;105(6):431–42

Human leptomeningeal-derived cells express GFAP and HLADR when grafted into rat spinal cord. Bernstein JJ, et al. **Int J Dev Neurosci** 1996 Aug;14(5):681–7

Ciliary neurotrophic factor stimulates the expression of glial fibrillary acidic protein by brain astrocytes in vivo. Clatterbuck RE, et al. **J Comp Neurol** 1996 Jun 10; 369(4):543–51

Dopamine transporter is required for in vivo MPTP neurotoxicity: evidence from mice lacking the transporter. Gainetdinov RR, et al. **J Neurochem** 1997 Sep;69(3):1322–5

Regulation of connexin-43, GFAP, and FGF-2 is not accompanied by changes in astroglial coupling in MPTP-lesioned, FGF-2-treated parkinsonian mice. Rufer M, et al. **J Neurosci Res** 1996 Dec 1;46(5):606–17

Astrocytoma and Schwann cells in coculture. Lal PG, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):93–104

Effects of brain ischemia on intermediate filaments of rat hippocampus. Camargo-De-Morais M, et al. **Neurochem Res** 1996 May;21(5):595–602

CEREBROSPINAL FLUID

Glial fibrillary acidic protein in the cerebrospinal fluid of patients with dementia. Wallin A, et al. **Dementia** 1996 Sep-Oct;7(5):267–72

Increased cerebrospinal fluid levels of glial fibrillary acidic protein (GFAp) in Lyme neuroborreliosis. Dotevall L, et al. **Infection** 1996 Mar-Apr;24(2):125–9

CHEMISTRY

Transient electric birefringence study of intermediate filament formation from vimentin and glial fibrillary acidic protein. Kooijman M, et al. **J Biol Chem** 1997 Sep 5; 272(36):22548–55

DEFICIENCY

GFAP is necessary for the integrity of CNS white matter architecture and long-term maintenance of myelination. Liedtke W, et al. **Neuron** 1996 Oct;17(4):607–15

DRUG EFFECTS

Persistent alterations in regional brain glial fibrillary acidic protein and synaptophysin levels following pre- and postnatal polychlorinated biphenyl exposure. Morse DC, et al. **Toxicol Appl Pharmacol** 1996 Aug;139(2):252–61

GENETICS

In situ hybridization analysis of glial fibrillary acidic protein mRNA reveals evidence of biphasic astrocyte activation during acute experimental autoimmune encephalomyelitis. Tani M, et al. **Am J Pathol** 1996 Mar;148(3):889–96

Up-regulation of glial fibrillary acidic protein in the retina of primate eyes with experimental glaucoma. Tanihara H, et al. **Arch Ophthalmol** 1997 Jun;115(6):752–6

Monitoring the temporal and spatial activation pattern of astrocytes in focal cerebral ischemia using in situ hybridization to GFAP mRNA: comparison with sgp-2 and hsp70 mRNA and the effect of glutamate receptor antagonists. Yamashita K, et al. **Brain Res** 1996 Oct 7; 735(2):285–97

Inducible expression of glial fibrillary acidic protein in HT-1080 human fibrosarcoma cells. Murakami M, et al. **Cell Growth Differ** 1996 Dec;7(12):1697–703

GFAP gene expression during development of astrocyte. Baba H, et al. **Dev Neurosci** 1997;19(1):49–57 (25 ref.)

Astrocytic lineage analysis by detection of GFAP promoter activity in vitro. Morita N, et al. **Dev Neurosci** 1997; 19(2):210–8

Neurite outgrowth on non-permissive substrates in vitro is enhanced by ectopic expression of the neural adhesion molecule L1 by mouse astrocytes. Mohajeri MH, et al. **Eur J Neurosci** 1996 Jun;8(6):1085–97

Increased transcription of the astrocyte gene GFAP during middle-age is attenuated by food restriction: implications for the role of oxidative stress. Morgan TE, et al. **Free Radic Biol Med** 1997;23(3):524–8

Ciliary neurotrophic factor activates JAK/Stat signal transduction cascade and induces transcriptional expression of glial fibrillary acidic protein in glial cells. Kahn MA, et al. **J Neurochem** 1997 Apr;68(4):1413–23

Glial fibrillary acidic protein expression in rat brain and in radial glia culture is delayed by prenatal ethanol exposure. Vallés S, et al. **J Neurochem** 1996 Dec;67(6):2425–33

Neuritic outgrowth associated with astroglial phenotypic changes induced by antisense glial fibrillary acidic protein (GFAP) mRNA in injured neuron-astrocyte cocultures. Lefrançois T, et al. **J Neurosci** 1997 Jun 1;17(11):4121–8

Detection of the peripheral nervous system (PNS)-type glial fibrillary acidic protein (GFAP) and its mRNA in human lymphocytes. Riol H, et al. **J Neurosci Res** 1997 Apr 1; 48(1):53–62

Transcription supports age-related increases of GFAP gene expression in the male rat brain. Yoshida T, et al. **Neurosci Lett** 1996 Sep 6;215(2):107–10

Development and malignant progression of astrocytomas in GFAP-v-src transgenic mice. Weissenberger J, et al. **Oncogene** 1997 May 1;14(17):2005–13

New approach for the treatment of medulloblastoma by transfection with glial fibrillary acidic protein gene. Sadatomo T, et al. **Surg Oncol** 1996 Apr;5(2):69–75

IMMUNOLOGY

Glial fibrillary acidic protein-immunoreactive astrocytosis in elderly patients with schizophrenia and dementia. Arnold SE, et al. **Acta Neuropathol (Berl)** 1996;91(3):269–77

IgG-antibodies to CNS proteins in patients with multiple sclerosis. Kaiser R, et al. **Eur J Med Res** 1997 Apr 21; 2(4):169–72

Exposure to methylmercury results in serum autoantibodies to neurotypic and gliotypic proteins [corrected and republished article originally printed in Neurotoxicology 1996 Spring;17(1):267–76] el-Fawal HA, et al. **Neurotoxicology** 1996 Summer;17(2):531–9

Exposure to methyl mercury results in serum autoantibodies

to neurotypic and gliotypic proteins [corrected and republished in Neurotoxicology 1996 Summer;17(2):531-9] el-Fawal HA, et al. **Neurotoxicology** 1996 Spring; 17(1):267-76

METABOLISM

Total number of astrocytes in the molecular layer of the dentate gyrus of rats at different ages. Pilegaard K, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):279-85

Distribution of glial fibrillary acidic protein-immunopositive structures in the developing brain of the turtle Mauremys leprosa. Kálmán M, et al. **Anat Embryol (Berl)** 1997 Jul; 196(1):47-65

Domain-specific phosphorylation of vimentin and glial fibrillary acidic protein by PKN. Matsuzawa K, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):621-5

S-100 (alpha and beta) binding peptide (TRTK-12) blocks S-100/GFAP interaction: identification of a putative S-100 target epitope within the head domain of GFAP. Bianchi R, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):258-67

Characterization of type III intermediate filament regulatory protein target epitopes: S-100 (beta and/or alpha) binds the N-terminal head domain; annexin II2-p11(2) binds the rod domain. Garbuglia M, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):268-76

Patterns of growth inhibitory factor (GIF) and glial fibrillary acidic protein relative level changes differ following left middle cerebral artery occlusion in rats. Inuzuka T, et al. **Brain Res** 1996 Feb 12;709(1):151-31

Astrocytes in the aged rat spinal cord fail to increase GFAP mRNA following sciatic nerve axotomy. Kane CJ, et al. **Brain Res** 1997 Jun 6;759(1):163-5

Monoclonal antibody, KK1, recognizes human retinal astrocytes and distinguishes a subtype of astrocytes in mouse brain. Kobayashi K, et al. **Brain Res** 1996 Nov 18; 740(1-2):57-65

Temporal profiles of the in vitro phosphorylation rate and immunocontent of glial fibrillary acidic protein (GFAP) after kainic acid-induced lesions in area CA1 of the rat hippocampus: demonstration of a novel phosphoprotein associated with gliosis. Lenz G, et al. **Brain Res** 1997 Aug 1;764(1-2):188-96

Repeated seizures increase GFAP and vimentin in the hippocampus. Stringer JL. **Brain Res** 1996 Apr 22; 717(1-2):147-53

The dephosphorylation of glial fibrillary acidic protein (GFAP) in the immature rat hippocampus is catalyzed mainly by a type 1 protein phosphatase. Vinadé L, et al. **Brain Res** 1996 Sep 2;732(1-2):195-200

Analysis of glial fibrillary acidic protein, neurofilament protein, actin and heat shock proteins in human fetal brain during the second trimester. Aquino DA, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):1-10

Id genes encoding inhibitors of transcription are expressed during in vitro astrocyte differentiation and in cell lines derived from astrocytic tumors. Andres-Barquin PJ, et al. **Cancer Res** 1997 Jan 15;57(2):215-20

Changes in glial fibrillary acidic protein immunoreactivity in the rat facial nucleus following various types of nerve lesions. Laskawi R, et al. **Eur Arch Otorhinolaryngol** 1996; 253(8):475-80

Retinal GFAP and bFGF expression after multiple argon laser photocoagulation injuries assessed by both immunoreactivity and mRNA levels. Humphrey MF, et al. **Exp Eye Res** 1997 Mar;64(3):361-9

Glial fibrillary acidic protein (GFAP) is synthesized in the early stages of the photoreceptor cell degeneration of the mivit/mivit (vitiligo) mouse [letter] Smith SB, et al. **Exp Eye Res** 1997 Apr;64(4):645-50

Altered immunoreactivity for glial fibrillary acidic protein in astrocytes within 1 h after cervical spinal cord injury. Hadley SD, et al. **Exp Neurol** 1997 Aug;146(2):380-7

Methylation of the glial fibrillary acidic protein gene shows novel biphasic changes during brain development. Teter B, et al. **Glia** 1996 Jul;17(3):195-205

Age-related changes in GFAP-immunoreactive astrocytes in the rat ventral cochlear nucleus. Jalenques I, et al. **Hear Res** 1997 May;107(1-2):113-24

Patterns of GFAP-immunoreactivity parallel the tonotopic axis in the developing dorsal cochlear nucleus. Riggs GH, et al. **Hear Res** 1995 Oct;90(1-2):89-96

Phosphorylation of glial fibrillary acidic protein at the same sites by cleavage furrow kinase and Rho-associated kinase. Kosako H, et al. **J Biol Chem** 1997 Apr 18;272(16):10333-6

Thyroid hormone induces protein secretion and morphological changes in astroglial cells with an increase in expression of glial fibrillary acidic protein. Lima FR, et al. **J Endocrinol** 1997 Jul;154(1):167-75

Glial fibrillary acidic protein--a cell type specific marker for Ito cells in vivo and in vitro. Neubauer K, et al. **J Hepatol** 1996 Jun;24(6):719-30

Nimodipine maintains in vivo the increase in GFAP and enhances the astroglial ensheathment of surviving motoneurons in the rat following permanent target deprivation. Guntinas-Lichius O, et al. **J Neurocytol** 1997 Apr;26(4):241-8

Cyclic AMP-mediated induction of the glial fibrillary acidic protein is independent of protein kinase A activation in rat C6 glioma. Ancaux K, et al. **J Neurosci Res** 1997 May 15;48(4):324-33

Immunocytochemical and electron microscope observations on astroglial interlaminar processes in the primate neocortex. Colombo JA, et al. **J Neurosci Res** 1997 May 15;48(4):352-7

GFAP-immunoreactivity following hypothermic forebrain ischemia. Kumar K, et al. **Metab Brain Dis** 1996 Mar; 12(1):21-7

Long-term changes in glial fibrillary acidic protein and glutamine synthetase immunoreactivities in the supraoptic nucleus of portacaval shunted rats. Suárez I, et al. **Metab Brain Dis** 1996 Dec;11(4):369-79

Neurochemical changes in the hippocampus of the brown Norway rat during aging. Bhatnagar M, et al. **Neurobiol Aging** 1997 May-Jun;18(3):319-27

Visualization of protein kinase activities in single cells by antibodies against phosphorylated vimentin and GFAP. Inagaki N, et al. **Neurochem Res** 1996 Jul;21(7):795-800 (30 ref.)

Identification of a novel glial fibrillary acidic protein mRNA isotype related to memory retention in rats. Huang AM, et al. **Neuroreport** 1997 May 6;8(7):1619-24

Glial fibrillary acidic protein (GFAP) immunochemical profile after junin virus infection of rat cultured astrocytes. Iacono RF, et al. **Neurosci Lett** 1995 Nov 24;200(3):175-8

Dynamics of bovine glial fibrillary acidic protein phosphorylation. Nakamura Y, et al. **Neurosci Lett** 1996 Feb 23;205(2):91-4

Immunocytochemical localization of cysteine sulfinate decarboxylase in astrocytes in the cerebellum and hippocampus: a quantitative double immunofluorescence study with glial fibrillary acidic protein and S-100 protein. Reymond I, et al. **Neuroscience** 1996 Nov;75(2):619-33

Changes in regional brain GFAP levels and behavioral functioning following subchronic lead acetate exposure in adult rats. Van den Berg KJ, et al. **Neurotoxicology** 1996 Fall-Winter;17(3-4):725-34

Light damage in the rat retina: glial fibrillary acidic protein accumulates in Müller cells in correlation with photoreceptor damage. de Raad S, et al. **Ophthalmic Res** 1996;28(2):99-107

Rapid laminar-dependent changes in GFAP immunoreactive astrocytes in the visual cortex of rats reared in a complex environment. Jones TA, et al. **Psychoneuroendocrinology** 1996 Feb;21(2):189-201

PHARMACOLOGY

Neurosteroids modulate the reaction of astroglia to high extracellular potassium levels. Del Cerro S, et al. **Glia** 1996 Dec;18(4):293-305

PHYSIOLOGY

Immunocytochemical localization of a novel radial glial intermediate filament protein. Cole GJ, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1-2):225-38

A rapid replacement of vimentin-containing radial glia by glial fibrillary acidic protein-containing astrocytes in transplanted telencephalon. Tuba A, et al. **J Neural Transplant Plast** 1997 Jan-Mar;6(1):21-9

Role of glial filaments in cells and tumors of glial origin: a review. Rutka JT, et al. **J Neurosurg** 1997 Sep; 87(3):420-30 (122 ref.)

GFAP is necessary for the integrity of CNS white matter architecture and long-term maintenance of myelination. Liedtke W, et al. **Neuron** 1996 Oct;17(4):607-15

GLIAL INTERMEDIATE FILAMENT PROTEIN see **GLIAL FIBRILLARY ACIDIC PROTEIN**

GLIBENCLAMIDE see **GLYBURIDE**

GLICLAZIDE

ADMINISTRATION & DOSAGE

Combined therapy with insulin and sulfonylurea for the treatment of new-onset insulin-dependent diabetes mellitus. Fallucca F, et al. **Horm Metab Res** 1996 Feb;28(2):86-8

ADVERSE EFFECTS

Octreotide for the treatment of sulphonylurea induced hypoglycaemia in type 2 diabetes. Braatvedt GD. **N Z Med J** 1997 May 23;110(1044):189-90

CHEMISTRY

Interference by gliclazide in the glucose oxidase/peroxidase method for glucose assay. Nakashima E, et al. **Diabetes Res Clin Pract** 1995 Nov;30(2):149-52

Nuclear magnetic resonance investigations of the inclusion complexation of gliclazide with beta-cyclodextrin. Moyano JR, et al. **J Pharm Sci** 1997 Jan;86(1):72-5

PHARMACOKINETICS

Synthesis of putative metabolites and investigation of the metabolic fate of gliclazide, [1-(3-azabicyclo(3,3,0)oct-3-yl)-3-(4-methylphenylsulfonyl) urea], in diabetic patients. Taylor AR, et al. **Drug Metab Dispos** 1996 Jan;24(1):55-64

PHARMACOLOGY

Sulfonylureas stimulate glucose uptake through GLUT4 transporter translocation in rat skeletal muscle. Pulido N, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):499-504

Heterogeneity of the inhibitory influence of sulfonylureas on prostanoid-induced smooth muscle contraction. Delaey C, et al. **Eur J Pharmacol** 1997 Apr 23;325(1):41-6

Effect of gliclazide on the functional response to calcium in diabetic rat heart. Shinzato T, et al. **Gen Pharmacol** 1996 Apr;27(3):471-5

Gliclazide decreases cell-mediated low-density lipoprotein (LDL) oxidation and reduces monocyte adhesion to endothelial cells induced by oxidatively modified LDL. Desfaits AC, et al. **Metabolism** 1997 Oct;46(10):1150-6

Gliclazide potentiates suppression of hepatic glucose production in non-insulin-dependent diabetic patients. Riccio A, et al. **Metabolism** 1996 Oct;45(10):1196-202

Gliclazide scavenges hydroxyl, superoxide and nitric oxide radicals: an ESR study. Noda Y, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):115-24

GLIDIAZINAMIDE see **GLIPIZIDE**

GLIOBLASTOMA

Alterations in plasma membrane of glioblastoma cells by photodynamic action of merocyanine 540. Sharma M, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):272-80

Establishment and characterization of a new human glioblastoma cell line (MGM-1) with highly motile phenotype. Moriyama T, et al. **Hum Cell** 1997 Mar; 10(1):105-10

A review of the treatment and survival rates of 138 patients with glioblastoma multiforme. Jubelirer SJ. **W V Med J** 1996 Jul-Aug;92(4):186-90

BLOOD

A simple method for the propagation and purification of gamma delta T cells from the peripheral blood of glioblastoma patients using solid-phase anti-CD3 antibody and soluble IL-2. Yamaguchi T, et al. **J Immunol Methods** 1997 Jun 23;205(1):19-28

BLOOD SUPPLY

Superselective angio-CT of brain tumors. Tomura N, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1073-80

Gene therapy of malignant glioma via inhibition of tumor angiogenesis. Plate KH. **Cancer Metastasis Rev** 1996 Jun; 15(2):237-40 (20 ref.)

Inhibition of angiogenesis in human glioblastomas by chromosome 10 induction of thrombospondin-1. Hsu SC, et al. **Cancer Res** 1996 Dec 15;56(24):5684-91

Angiogenesis in brain tumors; pathobiological and clinical aspects. Wesseling P, et al. **J Neurooncol** 1997 May; 32(3):253-65 (111 ref.)

Expression of integrin alpha v beta 3 in small blood vessels of glioblastoma tumors. Gladson CL. **J Neuropathol Exp Neurol** 1996 Nov;55(11):1143-9

Morphological change in tumor endothelial cells induced by natural-type human tumor necrosis factor. Nakaichi M, et al. **J Vet Med Sci** 1997 Jul;59(7):605-8

Time-dependent vascular regression and permeability changes in established human tumor xenografts induced by an anti-vascular endothelial growth factor/vascular permeability factor antibody. Yuan F, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14765-70

[Inhibition of angiogenesis and growth of malignant gliomas in the athymic nude rat model: immunotherapy against "basic fibroblast growth factor"] Nemati MN, et al. **Zentralbl Neurochir** 1996;57(1):12-9 (Eng. Abstr.) **(Ger)**

[High uptake of N-isopropyl-p-[123I]-iodoamphetamine (123I-IMP) demonstrated by dynamic SPECT in some cases of glioma] Sugou N, et al. **Kaku Igaku** 1996 Jul; 33(7):695-704 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Targeting microtubule-associated proteins in glioblastoma: a new strategy for selective therapy. Piepmeier JM, et al. **Ann Surg Oncol** 1996 Nov;3(6):543-9

Quinolinate immunoreactivity in experimental rat brain tumors is present in macrophages but not in astrocytes. Moffett JR, et al. **Exp Neurol** 1997 Apr;144(2):287-301

CLASSIFICATION

Classification of astrocytomas and malignant astrocytomas by principal components analysis and a neural net. McKeown MJ, et al. **J Neuropathol Exp Neurol** 1996 Dec; 55(12):1238-45

COMPLICATIONS

Osteosarcoma of the meninges in association with glioblastoma. Couldwell WT, et al. **Acta Neurochir (Wien)** 1997;139(7):684-9

"Echoing approval": a new speech disorder. Ghika J, et al. **J Neurol** 1996 Sep;243(9):633-7

Supratentorial glioma manifesting as acute onset of pure motor hemiparesis--case report. Yamaki T, et al. **Neurol Med Chir (Tokyo)** 1997 May;37(5):422-5

Waldenström's macroglobulinemia associated with glioblastoma. A case report. Lamaida E, et al. **Rev Neurol (Paris)** 1996 Oct;152(10):637-9 (10 ref.)

GLIOBLASTOMA

CONGENITAL

Desmoplastic cerebral glioblastoma of infancy. Al-Sarraj ST, et al. **Br J Neurosurg** 1996 Apr;10(2):215-9

DIAGNOSIS

Frontal glioma presenting as anxiety and obsessions: a case report. John G, et al. **Acta Neurol Scand** 1997 Sep; 96(3):194-5

MR of recurrent high-grade astrocytomas after intralesional immunotherapy. Smith MM, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1065-71

Intracranial vascular calcifications, glioblastoma multiforme, and lead poisoning. Teo JG, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):576-9

Prognostic significance of Hsp-27 in astrocytic brain tumors: an immunohistochemical study. Assimakopoulou M, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2677-82

Correlation of medical and neurosurgical events with neuropsychological status in children at diagnosis of astrocytoma: utilization of a neurological severity score. Ater JL, et al. **J Child Neurol** 1996 Nov;11(6):462-9

Fetal intraventricular glioblastoma: ultrasonographic, magnetic resonance imaging, and pathologic findings. Guibaud L, et al. **J Ultrasound Med** 1997 Apr;16(4):285-8

Differentiation of cerebral radiation necrosis from tumor recurrence by proton magnetic resonance spectroscopy. Kamada K, et al. **Neurol Med Chir (Tokyo)** 1997 Mar; 37(3):250-6

MR diffusion imaging of human intracranial tumours. Krabbe K, et al. **Neuroradiology** 1997 Jul;39(7):483-9

Supratentorial glioblastoma: neuroradiological findings and survival after surgery and radiotherapy. Pierallini A, et al. **Neuroradiology** 1996 May;38 Suppl 1:S26-30

MRI of high-grade glial tumors: correlation between the degree of contrast enhancement and the volume of surrounding edema. Pronin IN, et al. **Neuroradiology** 1997 May;39(5):348-50

A clinico-immunohistochemical study of giant cell glioblastoma. Huang MC, et al. **Noshuyo Byori** 1996 Apr; 13(1):11-6

[Erythema elevatum diutinum. A rare dermatosis with a broad spectrum of associated illnesses] Gerbig AW, et al. **Hautarzt** 1997 Feb;48(2):113-7 (25 ref.) (Eng. Abstr.) **(Ger)**

[A solitary toxoplasmosis focus simulating a brain tumor as the first manifestation of AIDS] Röricht S, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Aug;167(2):201-3 (12 ref.) **(Ger)**

[Transient decrease in the size of an enhanced anaplastic astrocytoma seen on magnetic resonance imaging: a case report] Suzuki K, et al. **No Shinkei Geka** 1997 Jul; 25(7):661-4 (Eng. Abstr.) **(Jpn)**

[The level of embryonic antigens in the blood serum and cerebrospinal fluid of neuro-oncological patients] Rudenko VA, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul-Sep;(3):32-5 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Intraarterial O6-benzylguanine enables the specific therapy of nitrosourea-resistant intracranial human glioma xenografts in athymic rats with 1,3-bis(2-chloroethyl)-1-nitrosourea. Kurpad SN, et al. **Cancer Chemother Pharmacol** 1997;39(4):307-16

Potential triple helix-mediated inhibition of IGF-I gene expression significantly reduces tumorigenicity of glioblastoma in an animal model. Shevelev A, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):105-12

Intratumoral infusion of the monoclonal antibody, mAb 425, against the epidermal-growth-factor receptor in patients with advanced malignant glioma. Wersäll P, et al. **Cancer Immunol Immunother** 1997 May;44(3):157-64

Methylator resistance mediated by mismatch repair deficiency in a glioblastoma multiforme xenograft. Friedman HS, et al. **Cancer Res** 1997 Jul 15;57(14):2933-6

Intraspinal high-grade astrocytoma in a child--rationale for chemotherapy and more intensive radiotherapy? Weiss E, et al. **Childs Nerv Syst** 1997 Feb;13(2):108-12 (42 ref.)

Cisplatin but not BCNU inhibits urokinase-type plasminogen activator levels in human glioblastoma cell lines in vitro. Go Y, et al. **Clin Exp Metastasis** 1997 Jul;15(4):447-52

Duke researchers link brain tumor drug resistance to mismatch repair deficiency [news] **Compr Ther** 1997 Sep; 23(9):622-3

Preirradiation paclitaxel in glioblastoma multiforme: efficacy, pharmacology, and drug interactions. New Approaches to Brain Tumor Therapy Central Nervous System Consortium. Fetell MR, et al. **J Clin Oncol** 1997 Sep; 15(9):3121-8

Early chemotherapy and concurrent radio-chemotherapy in high grade glioma. Brandes AA, et al. **J Neurooncol** 1996 Dec;30(3):247-55

Cranial radiation and concomitant cisplatin and mitomycin-C plus resistance modulators for malignant gliomas. Stewart DJ, et al. **J Neurooncol** 1997 Apr;32(2):161-8

Phase II study of DTIC, ACNU, and vincristine combination chemotherapy for supratentorial malignant astrocytomas. Ikeda J, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):555-8; discussion 558-9

Chemotherapy response criteria in malignant glioma. Grant R, et al. **Neurology** 1997 May;48(5):1336-40

Combination of 6-thioguanine, procarbazine, lomustine, and hydroxyurea for patients with recurrent malignant gliomas. Kyritsis AP, et al. **Neurosurgery** 1996 Nov;39(5):921-6

WAF1/CIP1 increases the susceptibility of p53 non-functional malignant glioma cells to cisplatin-induced apoptosis. Kondo S, et al. **Oncogene** 1996 Sep 19; 13(6):1279-85

Liposome-mediated therapy of intracranial brain tumors in a rat model. Sharma US, et al. **Pharm Res** 1997 Aug; 14(8):992-8

Tolerance of nicotinamide and carbogen with radiation therapy for glioblastoma [see comments] Pickles T, et al. **Radiother Oncol** 1996 Sep;40(3):245-7. Comment in: Radiother Oncol 1997 Apr;43(1):109-10. Comment in: Radiother Oncol 1997 Jun;43(3):324.

[HIT-GBM: multicenter study of treatment of children with malignant glioma] Wolff JE, et al. **Klin Padiatr** 1996 Jul-Aug;208(4):193-6 (Eng. Abstr.) **(Ger)**

[A case of the immediate efficacy of chemotherapy in a female patient with a glioblastoma] Kobiakov GL, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Oct-Dec; (4):39-41 (22 ref.) **(Rus)**

ENZYMOLOGY

Cytochemical demonstration of nitric oxide synthase and 5' nucleotidase in human glioblastoma. Fenoglio C, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2507-11

Calmodulin-dependent cyclic nucleotide phosphodiesterase in human cerebral cortex and glioblastoma multiforme. Lal S, et al. **Can J Neurol Sci** 1996 Nov;23(4):245-50

Effects of rottlerin, an inhibitor of calmodulin-dependent protein kinase III, on cellular proliferation, viability, and cell cycle distribution in malignant glioma cells. Parmer TG, et al. **Cell Growth Differ** 1997 Mar;8(3):327-34

Effect of cisplatin and BCNU on MMP-2 levels in human glioblastoma cell lines in vitro. Chintala SK, et al. **Clin Exp Metastasis** 1997 Jul;15(4):361-7

EPIDEMIOLOGY

Descriptive epidemiology of cerebral gliomas in France. Fleury A, et al. **Cancer** 1997 Mar 15;79(6):1195-202

The content and efficacy of conventional methods of follow-up in neuro-oncology: the need for new strategies. Steele J, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):168-71

[Incidence of glioblastoma multiforme in Aragon and La Rioja. An epidemiological survey] Monzón MJ, et al. **Rev Neurol** 1996 Jan;24(125):73-6 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Liver graft-transmitted glioblastoma multiforme. A case report and experience with 13 multiorgan donors suffering from primary cerebral neoplasia [see comments] Jonas S, et al. **Transpl Int** 1996;9(4):426-9 (16 ref.). Comment in: Transpl Int 1997;10(1):83-4.

GENETICS

Immunohistochemical analysis of the nm23 gene product (NDP kinase) expression in astrocytic neoplasms. Nawashiro H, et al. **Acta Neurochir (Wien)** 1996; 138(4):445-50

Molecular pathogenesis of astrocytoma and glioblastoma multiforme. Van de Kelft E. **Acta Neurochir (Wien)** 1997; 139(7):589-99 (87 ref.)

Molecular genetic analysis of giant cell glioblastomas. Meyer-Puttlitz B, et al. **Am J Pathol** 1997 Sep;151(3):853-7

Genetic alterations in astrocytic tumors: hints to a molecular epidemiological interpretation. Fronza G, et al. **Ann Ist Super Sanita** 1996;32(1):159-66 (53 ref.)

Comparative amplification analysis of human glioma tissue and glioma derived fragment spheroids using reverse chromosome painting (RCP). Janka M, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2601-6

mdm2 gene mediates the expression of mdr1 gene and P-glycoprotein in a human glioblastoma cell line. Kondo S, et al. **Br J Cancer** 1996 Oct;74(8):1263-8

Association of EGFR gene amplification and CDKN2 (p16/MTS1) gene deletion in glioblastoma multiforme. Hayashi Y, et al. **Brain Pathol** 1997 Jul;7(3):871-5

Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al. **Brain Pathol** 1996 Jul;6(3):217-23; discussion 23-4

Extensive splice variation and localization of the EHK-1 receptor tyrosine kinase in adult human brain and glial tumors. Miescher GC, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):17-24

Potential triple helix-mediated inhibition of IGF-I gene expression significantly reduces tumorigenicity of glioblastoma in an animal model. Shevelev A, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):105-12

Translocation 1;19 in two brain tumors. Vagner-Capodano AM, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):1-4

Microsatellite instability and mutated type II transforming growth factor-beta receptor gene in gliomas. Izumoto S, et al. **Cancer Lett** 1997 Jan 30;112(2):251-6

p53-dependent induction of WAF1 by a low-pH culture condition in human glioblastoma cells. Ohtsubo T, et al. **Cancer Res** 1997 Sep 15;57(18):3910-3

The relationship between TP53 mutations and overexpression of p53 and prognosis in malignant gliomas of childhood. Pollack IF, et al. **Cancer Res** 1997 Jan 15;57(2):304-9

Refined mapping of 12q13-q15 amplicons in human malignant gliomas suggests CDK4/SAS and MDM2 as independent amplification targets. Reifenberger G, et al. **Cancer Res** 1996 Nov 15;56(22):5141-5

Inhibition of in vivo tumorigenicity and invasiveness of a human glioblastoma cell line transfected with antisense uPAR vectors. Go Y, et al. **Clin Exp Metastasis** 1997 Jul; 15(4):440-6

Mdr1 mRNA expression differs between grade III astrocytomas and glioblastomas. Kirches E, et al. **Clin Neuropathol** 1997 Jan-Feb;16(1):34-6

Chromosome 17 allelic loss in astrocytic tumors and its clinico-pathologic implications. Muhammad AK, et al. **Clin Neuropathol** 1997 Jul-Aug;16(4):220-6

Construction of a 5-Mb YAC contig from the putative 10q25 tumor-suppressor region for glioblastomas. Albarosa R, et al. **Genomics** 1997 May 1;41(3):345-9

Isolation and characterization of a novel gene from human glioblastoma multiforme tumor tissue. Sehgal A, et al. **Int J Cancer** 1997 May 16;71(4):565-72

Stable radiobiological features in a genetically unstable glioblastoma cell line. Bartkowiak D, et al. **Int J Radiat Biol** 1997 Sep;72(3):313-8

The Jun kinase/stress-activated protein kinase pathway functions to regulate DNA repair and inhibition of the pathway sensitizes tumor cells to cisplatin. Potapova O, et al. **J Biol Chem** 1997 May 30;272(22):14041-4

p53 protein in pediatric malignant astrocytomas: a study of 21 patients. Bhattacharjee MB, et al. **J Neurooncol** 1997 May;32(3):225-33

Loss of heterozygosity of microsatellite loci on chromosome 9p in astrocytic tumors and its prognostic implications. Maruno M, et al. **J Neurooncol** 1996 Oct;30(1):19-24

Genomic alterations in human glioma cell lines detected by restriction landmark genomic scanning. Nakamura M, et al. **J Neurooncol** 1997 Sep;34(3):203-9

Prognostic factors in malignant glioma: influence of the overexpression of oncogene and tumor-suppressor gene products on survival. Rainov NG, et al. **J Neurooncol** 1997 Oct;35(1):13-28

Mitoxantrone-induced DNA strand breaks in cell-cultures of malignant human astrocytoma and glioblastoma tumors. Senkal M, et al. **J Neurooncol** 1997 May;32(3):203-8

DNA ploidy and S-phase in recurrent astrocytomas: a retrospective study by flow cytometry of deparaffinized specimens. Vavruch L, et al. **J Neurooncol** 1996 Oct; 30(1):37-45

Amplification and overexpression of MDM2 in primary (de novo) glioblastomas. Biernat W, et al. **J Neuropathol Exp Neurol** 1997 Feb;56(2):180-5

Determination of p53 mutations, EGFR overexpression, and loss of p16 expression in pediatric glioblastomas. Sure U, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):782-9

Transfection of IFNalpha in human glioblastoma cells and tumorigenicity in association with induction of PKR and OAS gene expression. He J, et al. **J Neurosurg** 1996 Dec; 85(6):1085-90

Identification of a candidate tumour suppressor gene, MMAC1, at chromosome 10q23.3 that is mutated in multiple advanced cancers. Steck PA, et al. **Nat Genet** 1997 Apr;15(4):356-62

Chromosome 22q allelic losses at microsatellite loci in human astrocytic tumors. Muhammad AK, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):606-10; discussion 611

Hydroxyurea accelerates the loss of epidermal growth factor receptor genes amplified as double-minute chromosomes in human glioblastoma multiforme. Canute GW, et al. **Neurosurgery** 1996 Nov;39(5):976-83

Homozygous p53 gene mutation in a radiation-induced glioblastoma 10 years after treatment for an intracranial germ cell tumor: case report. Tada M, et al. **Neurosurgery** 1997 Feb;40(2):393-6

Human glioblastomas with no alterations of the CDKN2A (p16INK4A, MTS1) and CDK4 genes have frequent mutations of the retinoblastoma gene. Ichimura K, et al. **Oncogene** 1996 Sep 5;13(5):1065-72

New deletion in low-grade oligodendroglioma at the glioblastoma suppressor locus on chromosome 10q25-26. Maier D, et al. **Oncogene** 1997 Aug 18;15(8):997-1000

Development and malignant progression of astrocytomas in GFAP-v-src transgenic mice. Weissenberger J, et al. **Oncogene** 1997 May 1;14(17):2005-13

Molecular biology of malignant degeneration of astrocytoma. Furnari FB, et al. **Pediatr Neurosurg** 1996;24(1):41-9 (109 ref.)

Detection of DNA damage in transcriptionally active genes by RT-PCR and assessment of repair of cisplatin-induced damage in the glutathione S-transferase-pi gene in human glioblastoma cells. Brandt TY, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):22-9

[Analysis of telomere restriction fragments in human astrocytomas and glioblastomas] Liu J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):588-90 (Eng. Abstr.) **(Chi)**

[Molecular mechanisms of astrocytoma tumorigenesis-link between genotypic abnormalities and phenotypic abnormalities] Tada M, et al. **No To Shinkei** 1997 Mar; 49(3):228-38 (130 ref.) **(Jpn)**

IMMUNOLOGY

Immunoprotective activity of the galactoside-specific lectin

from mistletoe after tumor destructive therapy in glioma patients. Lenartz D, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3799-802

Fas ligand expression in glioblastoma cell lines and primary astrocytic brain tumors. Gratas C, et al. **Brain Pathol** 1997 Jul;7(3):863-9

Decreased immunoglobulin deposition in tumors and increased immature B cells in p53-null mice. Shick L, et al. **Cell Growth Differ** 1997 Feb;8(2):121-31

Granulocyte-macrophage colony-stimulating factor and B7-2 combination immunogene therapy in an allogeneic Hu-PBL-SCID/beige mouse-human glioblastoma multiforme model. Parney IF, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1073-85

Protein kinase A-dependent IL-6 production induced by calcitonin in human glioblastoma A172 cells. Kiriyama Y, et al. **J Neuroimmunol** 1997 Jun;76(1-2):139-44

Induction of specific cytotoxic T lymphocytes against autologous brain tumor by crossreactive allo-tumor cell stimulation. Saitoh S, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):289-95

Recombinant immunotoxins specific for a mutant epidermal growth factor receptor: targeting with a single chain antibody variable domain isolated by phage display. Lorimer IA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14815-20

Curing rat glioblastoma: immunotherapy or graft rejection? [letter; comment] Beutler AS, et al. **Science** 1997 Apr 4; 276(5309):20-1. Comment on: Science 1993 Jan 1;259(5091):94-7.

METABOLISM

Different release of cytokines into the cerebrospinal fluid following surgery for intra- and extra-axial brain tumours. Woiciechowsky C, et al. **Acta Neurochir (Wien)** 1997; 139(7):619-24

Amplification of the cyclin-dependent kinase 4 (CDK4) gene is associated with high cdk4 protein levels in glioblastoma multiforme. Rollbrocker B, et al.
Acta Neuropathol (Berl) 1996 Jul;92(1):70-4

Preferential expression of Fas/APO1 (CD95) and apoptotic cell death in perinecrotic cells of glioblastoma multiforme. Tachibana O, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):431-4

In vivo 1H MRS and in vitro multinuclear MR study of human brain tumors. Tugnoli V, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2891-9

Functional expression of human p21(WAF1/CIP1) gene in rat glioma cells suppresses tumor growth in vivo and induces radiosensitivity. Hsiao M, et al.
Biochem Biophys Res Commun 1997 Apr 17;233(2):329-35

mdm2 gene mediates the expression of mdr1 gene and P-glycoprotein in a human glioblastoma cell line. Kondo S, et al. **Br J Cancer** 1996 Oct;74(8):1263-8

Incorporation of iododeoxyuridine in multicellular glioma spheroids: implications for DNA-targeted radiotherapy using Auger electron emitters. Neshasteh-Riz A, et al.
Br J Cancer 1997;75(4):493-9

Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al.
Brain Pathol 1996 Jul;6(3):217-23; discussion 23-4

Characterization of the mechanisms of busulfan resistance in a human glioblastoma multiforme xenograft. Hare CB, et al. **Cancer Chemother Pharmacol** 1997;40(5):409-14

The vascular compartment hampers accurate determination of teniposide penetration into brain tumor tissue. van Tellingen O, et al. **Cancer Chemother Pharmacol** 1997; 40(4):330-4

Liposomal delivery of the herpes simplex virus thymidine kinase gene in glioma: improvement of cell sensitization to ganciclovir. Zerrouqi A, et al. **Cancer Gene Ther** 1996 Nov-Dec;3(6):385-92

Suppression of heat-induced hsp72 accumulation by cisplatin in human glioblastoma cells. Matsumoto H, et al.
Cancer Lett 1996 Dec 20;110(1-2):253-7

Triple helix-forming oligodeoxyribonucleotides targeted to the human tumor necrosis factor (TNF) gene inhibit TNF production and block the TNF-dependent growth of human glioblastoma tumor cells. Aggarwal BB, et al.
Cancer Res 1996 Nov 15;56(22):5156-64

High and low dose rate irradiation have opposing effects on cytokine gene expression in human glioblastoma cell lines. Ross HJ, et al. **Eur J Cancer** 1997 Jan;33(1):144-52

Expression of adhesion molecules and extracellular matrix proteins in glioblastomas: relation to angiogenesis and spread. Vitolo D, et al. **Histopathology** 1996 Jun;28(6):521-8

Biodistribution of 111In-labelled SCN-bz-DTPA-BC-2 MAb following loco-regional injection into glioblastomas. Merlo A, et al. **Int J Cancer** 1997 May 29;71(5):810-6

Transforming growth factor beta as a potential tumor progression factor among hyperdiploid glioblastoma cultures: evidence for the role of platelet-derived growth factor. Jennings MT, et al. **J Neurooncol** 1997 Feb; 31(3):233-54

U-373 MG glioblastoma and IMR-32 neuroblastoma cell lines express the dopamine and vesicular monoamine transporters. Koutsilieri E, et al. **J Neurosci Res** 1996 Aug 1;45(3):269-75

Glioblastoma-associated circulating monocytes and the release of epidermal growth factor. Fries G, et al.
J Neurosurg 1996 Oct;85(4):642-7

Urinary epidermal growth factor (EGF) levels and epidermal growth factor receptor (EGF-R) expression in human cerebral tumors. Clinical considerations. Bello L.
J Neurosurg Sci 1996 Sep-Dec;40(3-4):167-82

Proton chemical shift imaging, metabolic maps, and single voxel spectroscopy of glial brain tumors. Mader I, et al.
MAGMA 1996 Jun;4(2):139-50

Functional expression of bombesin receptor in most adult and pediatric human glioblastoma cell lines; role in mitogenesis and in stimulating the mitogen-activated protein kinase pathway. Sharif TR, et al.
Mol Cell Endocrinol 1997 Jun 20;130(1-2):119-30

Evaluation of human astrocytoma and glioblastoma cell lines for nerve growth factor release. Emmett CJ, et al.
Neurochem Int 1997 Apr-May;30(4-5):465-74

Tumor cell counting using an image analysis program for MIB-1 immunohistochemistry. Ide M, et al.
Neurol Med Chir (Tokyo) 1997 Feb;37(2):158-62

Increased density of I2-imidazoline receptors in human glioblastomas. Martín-Gómez JI, et al. **Neuroreport** 1996 May 31;7(8):1393-6

Effect of nitrous oxide and propofol on amino acid metabolism in neoplasic patients. Crespo ML, et al.
Nutr Cancer 1997;27(1):80-3

Induction of vascular endothelial growth factor by nitric oxide in human glioblastoma and hepatocellular carcinoma cells. Chin K, et al. **Oncogene** 1997 Jul 24;15(4):437-42

Identification of a novel gene product, RIG, that is down-regulated in human glioblastoma. Ligon AH, et al.
Oncogene 1997 Mar 6;14(9):1075-81

Coexpression of hepatocyte growth factor and its receptor (c-met oncogene) in HGL4 glioblastoma cells. Shiota G, et al. **Oncology** 1996 Nov-Dec;53(6):511-6

Suppression of insulin-like growth factor type I receptor by a triple-helix strategy inhibits IGF-I transcription and tumorigenic potential of rat C6 glioblastoma cells. Rininsland F, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5854-9

MORTALITY

Prognostic factors for glioblastoma multiforme--development of a prognostic index. Gundersen S, et al. **Acta Oncol** 1996;35 Suppl 8:123-7

Influence of an oligodendroglial component on the survival of patients with anaplastic astrocytomas: a report of Radiation Therapy Oncology Group 83-02. Donahue B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):911-4

Supratentorial glioblastoma: neuroradiological findings and survival after surgery and radiotherapy. Pierallini A, et al. **Neuroradiology** 1996 May;38 Suppl 1:S26-30

PATHOLOGY

Proliferating cell nuclear antigen (PCNA) and Ki-67 immunopositivity in human astrocytic tumours. Kordek R, et al. **Acta Neurochir (Wien)** 1996;138(5):509-12; discussion 513

The relationship between cortical injury and brain tumour. Report of two cases and review of the literature. Stendel R, et al. **Acta Neurochir (Wien)** 1997;139(3):208-14 (52 ref.)

Lymph node metastases from glioblastoma multiforme. Wallace CJ, et al. **AJNR Am J Neuroradiol** 1996 Nov-Dec; 17(10):1929-31

Effects of Matrigel on the SF-767 malignant glioma athymic mouse tumor model. Wyrick BJ, et al. **Anticancer Res** 1997 Jul-Aug;17(4A):2419-25

Dynamic characterization of glioblastoma cell motility. De Hauwer C, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):267-72

Expression of p16INK4a suppresses the unbounded and anchorage-independent growth of a glioblastoma cell line that lacks p16INK4a. Higashi H, et al.
Biochem Biophys Res Commun 1997 Feb 24;231(3):743-50

Scatter factor/hepatocyte growth factor expression enhances human glioblastoma tumorigenicity and growth. Laterra J, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):743-7

Calmodulin-dependent cyclic nucleotide phosphodiesterase in human cerebral cortex and glioblastoma multiforme. Lal S, et al. **Can J Neurol Sci** 1996 Nov;23(4):245-50

Insulin-like growth factors (IGF) enhance three-dimensional (3D) growth of human glioblastomas. Morford LA, et al.
Cancer Lett 1997 May 1;115(1):81-90

A common mutant epidermal growth factor receptor confers enhanced tumorigenicity on human glioblastoma cells by increasing proliferation and reducing apoptosis. Nagane M, et al. **Cancer Res** 1996 Nov 1;56(21):5079-86

Inhibition of in vivo tumorigenicity and invasiveness of a human glioblastoma cell line transfected with antisense uPAR vectors. Go Y, et al. **Clin Exp Metastasis** 1997 Jul; 15(4):440-6

Cisplatin but not BCNU inhibits urokinase-type plasminogen activator levels in human glioblastoma cell lines in vitro. Go Y, et al. **Clin Exp Metastasis** 1997 Jul;15(4):447-52

Extracranial metastasis of glioblastoma multiforme diagnosed by fine-needle aspiration: a report of two cases and a review of the literature. Vural G, et al.
Diagn Cytopathol 1996 Jul;15(1):60-5 (29 ref.)

Expression of adhesion molecules and extracellular matrix proteins in glioblastomas: relation to angiogenesis and spread. Vitolo D, et al. **Histopathology** 1996 Jun;28(6):521-8

Autocrine interleukin-1 receptor antagonist can support malignant growth of glioblastoma by blocking growth-inhibiting autocrine loop of interleukin-1. Oelmann E, et al. **Int J Cancer** 1997 Jun 11;71(6):1066-76

Stable radiobiological features in a genetically unstable glioblastoma cell line. Bartkowiak D, et al.
Int J Radiat Biol 1997 Sep;72(3):313-8

Influence of an oligodendroglial component on the survival of patients with anaplastic astrocytomas: a report of Radiation Therapy Oncology Group 83-02. Donahue B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):911-4

Corpus callosum involvement as a prognostic factor for patients with high-grade astrocytoma. Steltzer KJ, et al.
Int J Radiat Oncol Biol Phys 1997 Apr 1;38(1):27-30

The enhanced tumorigenic activity of a mutant epidermal growth factor receptor common in human cancers is mediated by threshold levels of constitutive tyrosine phosphorylation and unattenuated signaling. Huang HS, et al. **J Biol Chem** 1997 Jan 31;272(5):2927-35

Enhanced tumorigenic behavior of glioblastoma cells expressing a truncated epidermal growth factor receptor is mediated through the Ras-Shc-Grb2 pathway. Prigent SA, et al. **J Biol Chem** 1996 Oct 11;271(41):25639-45

Primary diffuse leptomeningeal glioblastoma multiforme of brainstem and spinal cord clinically mimicking meningitis: case report and review of literature. Shuangshoti S, et al.
J Med Assoc Thai 1996 Jun;79(6):403-8 (24 ref.)

Interstitial fluid flow along white matter tracts: a potentially important mechanism for the dissemination of primary brain tumors. Geer CP, et al. **J Neurooncol** 1997 May; 32(3):193-201

Inhibitory effects of CAI in glioblastoma growth and invasion. Jacobs W, et al. **J Neurooncol** 1997 Apr; 32(2):93-101

Transforming growth factor beta as a potential tumor progression factor among hyperdiploid glioblastoma cultures: evidence for the role of platelet-derived growth factor. Jennings MT, et al. **J Neurooncol** 1997 Feb; 31(3):233-54

Peripheral nerve or brainstem glioblastoma [letter; comment] Fernandez E. **J Neurosurg** 1997 Apr;86(4):739-41. Comment on: J Neurosurg 1996 Jun;84(6):1062-6.

Glioma invasion in vitro is mediated by CD44-hyaluronan interactions. Radotra B, et al. **J Pathol** 1997 Apr; 181(4):434-8

The prognostic impact of prior low grade histology in patients with anaplastic gliomas: a case-control study. Dropcho EJ, et al. **Neurology** 1996 Sep;47(3):684-90

The influence of gastrin and/or cholecystokinin antagonists on the proliferation of three human astrocytic tumor cell lines. Camby I, et al. **Neuropeptides** 1996 Oct;30(5):433-7

VIP and pituitary adenylate cyclase activating polypeptide (PACAP) have an antiproliferative effect on the T98G human glioblastoma cell line through interaction with VIP2 receptor. Vertongen P, et al. **Neuropeptides** 1996 Oct; 30(5):491-6

Local invasivity of glioblastoma multiforme with destruction of skull bone. Case report and review of the literature. Rainov NG, et al. **Neurosurg Rev** 1996;19(3):183-8

Inhibition of epidermal growth factor receptor-associated tyrosine kinase blocks glioblastoma invasion of the brain. Penar PL, et al. **Neurosurgery** 1997 Jan;40(1):141-51

In vitro inhibition of cell proliferation, viability, and invasiveness in U87MG human glioblastoma cells by estramustine phosphate. Yoshida D, et al. **Neurosurgery** 1996 Aug;39(2):360-6

Tubular bodies (Weibel-Palade bodies) in endothelial cells of glioblastomas and astrocytomas. Miyagami M, et al.
Noshuyo Byori 1996 Nov;13(2):107-13

Palisades in cerebral astrocytoma simulating the so-called polar spongioblastoma: a histological, immunohistochemical, and electron microscopical study of an adult case. Yagishita S, et al. **Noshuyo Byori** 1996 Apr; 13(1):21-5

Nuclear accumulation of FGF-2 is associated with proliferation of human astrocytes and glioma cells. Joy A, et al. **Oncogene** 1997 Jan 16;14(2):171-83

WAF1/CIP1 increases the susceptibility of p53 non-functional malignant glioma cells to cisplatin-induced apoptosis. Kondo S, et al. **Oncogene** 1996 Sep 19; 13(6):1279-85

In vitro inhibition of human glioblastoma cell line invasiveness by antisense uPA receptor. Mohanam S, et al. **Oncogene** 1997 Mar 20;14(11):1351-9

Antiproliferative effects of cyclopentenyl cytosine (NSC 375575) in human glioblastoma cells. Agbaria R, et al.
Oncol Res 1997;9(3):111-8

Pathology of brain stem astrocytomas. Burger PC.
Pediatr Neurosurg 1996;24(1):35-40 (28 ref.)

Trans receptor inhibition of human glioblastoma cells by erbB family ectodomains. O'Rourke DM, et al.
Proc Natl Acad Sci U S A 1997 Apr 1;94(7):3250-5

Suppression of insulin-like growth factor type I receptor by a triple-helix strategy inhibits IGF-I transcription and tumorigenic potential of rat C6 glioblastoma cells. Rininsland F, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5854-9

Cell-surface perturbations of the epidermal growth factor and vascular endothelial growth factor receptors by phosphorothioate oligodeoxynucleotides. Rockwell P, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6523-8

Spontaneous metastasis, proliferation characteristics and radiation sensitivity of fractionated irradiation recurrent

and unirradiated human xenografts. Huang P, et al. **Radiother Oncol** 1996 Oct;41(1):73–81

Clinical determinants of long–term survival in patients with glioblastoma multiforme. Pollak L, et al. **Tumori** 1997 Mar–Apr;83(2):613–7 (29 ref.)

[Establishment of human glioblastoma cell line "TK–1"] Tsuboi K, et al. **Hum Cell** 1996 Jun;9(2):125–8 **(Jpn)**

[An analysis of the interconnections between the proliferative activity of benign and anaplastic astrocytomas of the cerebral hemispheres and their histological structural characteristics] Korshunov AG, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Jan–Mar; (1):30–4 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Frequency source analysis in patients with brain lesions. Harmony T, et al. **Brain Topogr** 1995 Winter;8(2):109–17

Functional imaging in treatment planning of brain lesions. Hamilton RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):181–8

Characterization of p53 and p21 functional interactions in glioma cells en route to apoptosis. Gomez–Manzano C, et al. **J Natl Cancer Inst** 1997 Jul 16;89(14):1036–44

Action potential–generating cells in human glioblastomas. Labrakakis C, et al. **J Neuropathol Exp Neurol** 1997 Mar; 56(3):243–54

Human astrocytoma cells express a unique chloride current. Ullrich N, et al. **Neuroreport** 1996 Apr 10;7(5):1020–4

PSYCHOLOGY

Anxiety and depression in elderly patients receiving treatment for cerebral tumours. Kaplan CP, et al. **Brain Inj** 1997 Feb;11(2):129–35

RADIOGRAPHY

Clinical and radiographic stabilization of intracranial glioblastoma. Report of a case treated after surgery with tamoxifen. Mastronardi L, et al. **J Neurosurg Sci** 1996 Jun; 40(2):129–33

High–grade astrocytomas in children: radiologically complete resection is associated with an excellent long–term prognosis. Campbell JW, et al. **Neurosurgery** 1996 Feb;38(2):258–64

Glioblastoma multiforme: radiologic–pathologic correlation. Rees JH, et al. **Radiographics** 1996 Nov;16(6):1413–38; quiz 1462–3

RADIONUCLIDE IMAGING

C–11 methionine and F–18 FDG uptake in a patient with meningioma and glioblastoma multiforme. Korkmaz M, et al. **Clin Nucl Med** 1996 Jul;21(7):580–2

Rapid rise in FDG uptake in an irradiated human tumour xenograft. Furuta M, et al. **Eur J Nucl Med** 1997 Apr; 24(4):435–8

Functional imaging in treatment planning of brain lesions. Hamilton RJ, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 1;37(1):181–8

Thallium–201–SPECT and 99Tc–HM–PAO SPECT imaging to study functionally cerebral supratentorial neoplasms: the biological basis of the functional imaging interpretation. Zingale A, et al. **J Neurosurg Sci** 1995 Dec;39(4):227–35

Independent thallium–201 accumulation and fluorine–18–fluorodeoxyglucose metabolism in glioma. Oriuchi N, et al. **J Nucl Med** 1996 Mar;37(3):457–62

Fluorine–18–FDG PET and iodine–123–IMT SPECT in the evaluation of brain tumors. Weber W, et al. **J Nucl Med** 1997 May;38(5):802–8

[Histological prediction of cerebral tumors using SPECT with 201T1] Prat–Acín R, et al. **Rev Neurol** 1997 Aug; 25(144):1168–70 (Eng. Abstr.) **(Spa)**

RADIOTHERAPY

Imaging of boron in tissue at the cellular level for boron neutron capture therapy. Arlinghaus HF, et al. **Anal Chem** 1997 Aug 15;69(16):3169–76

Secondary tumours after prophylactic cranial irradiation. Leung J, et al. **Australas Radiol** 1996 Feb;40(1):43–4

Boron neutron capture therapy. Beddoe AH. **Br J Radiol** 1997 Jul;70(835):665–7

Hypofractionated radiation induces a decrease in cell proliferation but no histological damage to organotypic multicellular spheroids of human glioblastomas. Kaaijk P, et al. **Eur J Cancer** 1997 Apr;33(4):645–51

Neon heavy charged particle radiotherapy of glioblastoma of the brain. Castro JR, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):257–61

Carbogen and nicotinamide combined with unconventional radiotherapy in glioblastoma multiforme: a new modality treatment. Fatigante L, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):499–504

p53–dependent G1 arrest and p53–independent apoptosis influence the radiobiologic response of glioblastoma. Haas–Kogan DA, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):95–103

Comment on "survival improvement in anaplastic astrocytoma, combining external radiation with halogenated pyrimidines: final report of RTOG 86–12, Phase I–II Study" [editorial; comment] Phillips TL. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1281–2. Comment on: Int J Radiat Oncol Biol Phys 1996 Dec 1;36(5):1163–7.

Pion radiation for high grade astrocytoma: results of a randomized study. Pickles T, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):491–7

Survival improvement in anaplastic astrocytoma, combining external radiation with halogenated pyrimidines: final report of RTOG 86–12, Phase I–II study [see comments] Urtasun RC, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1163–7. Comment in: Int J Radiat Oncol Biol Phys 1996 Dec 1;36(5):1281–2.

Radiotherapy after hyperbaric oxygenation for malignant gliomas: a pilot study. Kohshi K, et al. **J Cancer Res Clin Oncol** 1996;122(11):676–8

Early chemotherapy and concurrent radio–chemotherapy in high grade glioma. Brandes AA, et al. **J Neurooncol** 1996 Dec;30(3):247–55

Boron neutron capture therapy for glioblastoma multiforme using p–boronophenylalanine and epithermal neutrons: trial design and early clinical results. Coderre JA, et al. **J Neurooncol** 1997 May;33(1–2):141–52

Strategic planning workshop on research needs for neutron capture therapy. Feinendegen LE. **J Neurooncol** 1997 May; 33(1–2):179–85

Boron neutron capture therapy. Clinical brain tumor studies. Nakagawa Y, et al. **J Neurooncol** 1997 May;33(1–2):105–15

Effect of irradiation on transforming growth factor–beta secretion by malignant glioma cells. Satoh E, et al. **J Neurooncol** 1997 Jul;33(3):195–200

The rationale and requirements for the development of boron neutron capture therapy of brain tumors. Soloway AH, et al. **J Neurooncol** 1997 May;33(1–2):9–18 (43 ref.)

Cranial radiation and concomitant cisplatin and mitomycin–C plus resistance modulators for malignant gliomas. Stewart DJ, et al. **J Neurooncol** 1997 Apr;32(2):161–8

Serial proton magnetic resonance spectroscopy imaging of glioblastoma multiforme after brachytherapy. Wald LL, et al. **J Neurosurg** 1997 Oct;87(4):525–34

Phase II study of DTIC, ACNU, and vincristine combination chemotherapy for supratentorial malignant astrocytomas. Ikeda J, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):555–8; discussion 558–9

Na2B12H11SH (BSH) in combination with systemic hyaluronidase: a promising concept for boron neutron capture therapy for glioblastoma. Haselsberger K, et al. **Neurosurgery** 1996 Aug;39(2):321–5; discussion 325–6

Effects of iodine–125 brachytherapy on the proliferative capacity and histopathological features of glioblastoma recurring after initial therapy. Siddiqi SN, et al. **Neurosurgery** 1997 May;40(5):910–7; discussion 917–8

Long–term follow–up after high–activity 125I brachytherapy for pediatric brain tumors. Sneed PK, et al. **Pediatr Neurosurg** 1996 Jun;24(6):314–22

Tolerance to nicotinamide and carbogen with radiation therapy for glioblastoma [letter; comment] Horsman MR. **Radiother Oncol** 1997 Apr;43(1):109–10. Comment on: Radiother Oncol 1996 Sep;40(3):245–7.

Spontaneous metastasis, proliferation characteristics and radiation sensitivity of fractionated irradiation recurrent and unirradiated human xenografts. Huang P, et al. **Radiother Oncol** 1996 Oct;41(1):73–81

Tolerance of nicotinamide and carbogen with radiation therapy for glioblastoma [see comments] Pickles T, et al. **Radiother Oncol** 1996 Sep;40(3):245–7. Comment in: Radiother Oncol 1997 Apr;43(1):109–10. Comment in: Radiother Oncol 1997 Jun;43(3):324.

Interstitial brachytherapy procedures for brain tumors. Sneed PK, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):157–66 (50 ref.)

[Iridium 192 brachytherapy of supra–tentorial high grade glioma recurring in irradiated areas: technique and preliminary results of the Pitié–Salpêtrière hospital group] Boisserie G, et al. **Bull Cancer Radiother** 1996;83(3):144–52 (20 ref.) (Eng. Abstr.) **(Fre)**

[Radiotherapy of glioblastoma] de Crevoisier R, et al. **Cancer Radiother** 1997;1(3):194–207 (106 ref.) (Eng. Abstr.) **(Fre)**

[High–dose conformal radiotherapy for glioblastoma multiforme] Nakagawa K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May; 57(6):330–5 (Eng. Abstr.) **(Jpn)**

SECONDARY

Invasive pattern of lac–Z–transfected human glioblastoma cells in nude mice brain. Go Y, et al. **Cancer Lett** 1996 Dec 20;110(1–2):225–31

Liver and lung metastases of high–grade astrocytoma showing abnormal Tc–99m MDP localization. Yilmaz M, et al. **Clin Nucl Med** 1997 Jul;22(7):505–6

Extracranial metastasis of glioblastoma multiforme diagnosed by fine–needle aspiration: a report of two cases and a review of the literature. Vural G, et al. **Diagn Cytopathol** 1996 Jul;15(1):60–5 (29 ref.)

Liver graft–transmitted glioblastoma multiforme. A case report and experience with 13 multiorgan donors suffering from primary cerebral neoplasia [see comments] Jonas S, et al. **Transpl Int** 1996;9(4):426–9 (16 ref.). Comment in: Transpl Int 1997;10(1):83–4.

SECRETION

Purification and identification of a novel and four known serine proteinase inhibitors secreted by human glioblastoma cells. Koshikawa N, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):334–9

SURGERY

Re–operations of supratentorial anaplastic astrocytomas. Sipos L, et al. **Acta Neurochir (Wien)** 1997;139(2):99–104

Brain tumour surgery in the elderly: a brief reappraisal. Bernstein M. **Can J Surg** 1996 Apr;39(2):147–50

Malignant supratentorial astrocytomas of late childhood. Our experience with 25 cases. Raco A, et al. **Childs Nerv Syst** 1997 Jun;13(6):341–4

Management of glioblastoma multiforme: with special reference to recurrence. Durmaz R, et al. **Clin Neurol Neurosurg** 1997 May;99(2):117–23

Surgery of intramedullary spinal cord tumors. Zileli M, et al. **Eur Spine J** 1996;5(4):243–50

Tumors of the insula [letter; comment] Kreth FW, et al. **J Neurosurg** 1997 May;86(5):910–1. Comment on: J Neurosurg 1996 Aug;85(2):263–71.

Asystole as a neurologic sign. Tyler DS, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):29–30

Clinical and radiographic stabilization of intracranial glioblastoma. Report of a case treated after surgery with tamoxifen. Mastronardi L, et al. **J Neurosurg Sci** 1996 Jun; 40(2):129–33

High–grade astrocytomas in children: radiologically complete resection is associated with an excellent long–term prognosis. Campbell JW, et al. **Neurosurgery** 1996 Feb;38(2):258–64

Tumors of Heschl's gyrus: report of two cases. Silbergeld DL. **Neurosurgery** 1997 Feb;40(2):389–92

Value of surgical intervention in the treatment of glioma. Quigley MR, et al. **Stereotact Funct Neurosurg** 1995; 65(1–4):171–5

[Hyponatremia and renal sodium loss in a patient after resection of an intracerebral tumor] von Appen K, et al. **Internist (Berl)** 1997 Feb;38(2):157–9 **(Ger)**

[The effect of extent of tumor resection on the outcome of combined therapy in patients with glioblastoma multiforme] Jeremić B, et al. **Srp Arh Celok Lek** 1997 Mar–Apr; 125(3–4):93–8 (Eng. Abstr.) **(Scc)**

THERAPY

Gene therapy in brain tumours: implications of the size of glioblastoma on its curability. Izquierdo M, et al. **Acta Neurochir Suppl (Wien)** 1997;68:111–7

Anti–angiogenic gene therapy of malignant glioma. Stratmann A, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:105–10 (30 ref.)

In vitro evaluation of temozolomide combined with X–irradiation. Wedge SR, et al. **Anticancer Drugs** 1997 Jan; 8(1):92–7

Gene therapies for glioblastomas. Viola JJ, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):413–24 (47 ref.)

Intracavitary liposome–mediated p53 gene transfer into glioblastoma with endogenous wild–type p53 in vivo results in tumor suppression and long–term survival. Hsiao M, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):359–64

High–dose BCNU and autologous progenitor cell transplantation given with intra–arterial cisplatinum and simultaneous radiotherapy in the treatment of high–grade gliomas: benefit for selected patients. Fernández–Hidalgo OA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):143–9

High–dose BCNU with ABMT followed by radiation therapy in the treatment of supratentorial glioblastoma multiforme. Linassier C, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S69–72

Radiosurgery and accelerated radiotherapy for patients with glioblastoma. Shenouda G, et al. **Can J Neurol Sci** 1997 May;24(2):110–5

Gene therapy of malignant glioma via inhibition of tumor angiogenesis. Plate KH. **Cancer Metastasis Rev** 1996 Jun; 15(2):237–40 (20 ref.)

Human malignant brain tumor response to herpes simplex thymidine kinase (HSVtk)/ganciclovir gene therapy. Izquierdo M, et al. **Gene Ther** 1996 Jun;3(6):491–5

Treatment of advanced CNS malignancies with the recombinant adenovirus H5.010RSVTK: a phase I trial. Eck SL, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1465–82

Granulocyte–macrophage colony–stimulating factor and B7–2 combination immunogene therapy in an allogeneic Hu–PBL–SCID/beige mouse–human glioblastoma multiforme model. Parney IF, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1073–85

Adenovirus–mediated p53 gene transfer suppresses growth of human glioblastoma cells in vitro and in vivo. Köck H, et al. **Int J Cancer** 1996 Sep 17;67(6):808–15

Gene therapy for glioblastoma [correction of gliobestome] multiform: in vivo tumor transduction with the herpes simplex thymidine kinase gene followed by ganciclovir. Stockhammer G, et al. **J Mol Med** 1997 Apr;75(4):300–4

Randomized trial of radiation therapy (RT) plus dibromodulcitol (DBD) versus RT plus BCNU in high grade astrocytoma. Elliott TE, et al. **J Neurooncol** 1997 Jul;33(3):239–50

Cognitive dysfunction following surgery for intracerebral glioma: influence of histopathology, lesion location, and treatment. Scheibel RS, et al. **J Neurooncol** 1996 Oct; 30(1):61–9

Clinical trial of external beam–radiotherapy combined with

daily administration of low-dose cisplatin for supratentorial glioblastoma multiforme--a pilot study. Shinoda J, et al. **J Neurooncol** 1997 Oct;35(1):73-80

Induction of specific cytotoxic T lymphocytes against autologous brain tumor by crossreactive allo-tumor cell stimulation. Saitoh S, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):289-95

Curing rat glioblastoma: immunotherapy or graft rejection? [letter; comment] Beutler AS, et al. **Science** 1997 Apr 4; 276(5309):20-1. Comment on: Science 1993 Jan 1;259(5091):94-7.

[Gene therapy of glioblastomas] Izquierdo M, et al. **Rev Neurol** 1996 Mar;24(127):325-8 **(Spa)**

ULTRASTRUCTURE

Microsatellite instability and mutated type II transforming growth factor-beta receptor gene in gliomas. Izumoto S, et al. **Cancer Lett** 1997 Jan 30;112(2):251-6

Mitochondrial damage following exposure of organotypic cultures of human malignant gliomas to 2-chloro- and 2-bromo-2'-deoxyadenosine. Matyja E, et al. **Folia Neuropathol** 1996;34(1):31-9

Glomeruloid vascular structures in glioblastoma multiforme: an immunohistochemical and ultrastructural study. Rojiani AM, et al. **J Neurosurg** 1996 Dec;85(6):1078-84

[AgNOR analysis of astrocytoma in childhood] Haberland C, et al. **Zentralbl Neurochir** 1996;57(1):5-11 (Eng. Abstr.) **(Ger)**

VETERINARY

Glioblastoma multiforme arising in the irradiated spinal cord of a rhesus monkey (Macaca mulatta). Price RE, et al. **J Med Primatol** 1996 Apr;25(2):140-5

GLIOBLASTOMA-DERIVED T-CELL SUPPRESSOR FACTOR see **TRANSFORMING GROWTH FACTOR BETA**

GLIOBLASTOMA MULTIFORME see **GLIOBLASTOMA**

GLIOCLADIUM see **HYPHOMYCETES**

GLIOMA

Time-dependent influence of the somatostatin analogue octreotide on the proliferation of rat astrocytes and glioma cells. Feindt J, et al. **Brain Res** 1997 Jan 23;746(1-2):309-13

Heat shock- and ethanol-induced ionic changes in C6 rat glioma cells determined by NMR and fluorescence spectroscopy. Skrandies S, et al. **Brain Res** 1997 Jan 23; 746(1-2):220-30

Supratentorial malignant gliomas in childhood: a single institution perspective. Heideman RL, et al. **Cancer** 1997 Aug 1;80(3):497-504

Engraftment of C6-2B cells into the striatum of ACI nude rats as a tool for comparison of the in vitro and in vivo phenotype of a glioma cell line. Tornatore C, et al. **Cell Transplant** 1997 May-Jun;6(3):317-26

The 'PRESTON Profile'--the first disease-specific tool for assessing quality of life in patients with malignant glioma. Lyons GJ. **Disabil Rehabil** 1996 Sep;18(9):460-8

Heterogeneic modulation of malignant behavior in human glioma cells in defined and serum-containing media. Haugland HK, et al. **In Vitro Cell Dev Biol Anim** 1996 Mar;32(3):159-66

Anterior visual pathway tumors. Sinha AK, et al. **Indian Pediatr** 1996 Jun;33(6):506-9

Survival, prognostic factors, and therapeutic efficacy in low-grade glioma: a retrospective study in 379 patients. Lote K, et al. **J Clin Oncol** 1997 Sep;15(9):3129-40

Inhibition of bradykinin-induced calcium increase by phosphatase inhibitors in neuroblastoma x glioma hybrid NG108-15 cells. Hu SY, et al. **J Neurochem** 1997 Feb; 68(2):846-54

Special issue: Gliomas of childhood: current perspectives. **J Neurooncol** 1996 May-Jun;28(2-3):117-268

Computer-assisted microscope characterization of BCNU-induced modifications in the collective behavior of 12 human brain cancer cell lines. Camby I, et al. **J Neurooncol** 1996 Apr;28(1):1-11

Interferon-beta inhibits proliferation and progression through S phase of the cell cycle in five glioma cell lines. Garrison JI, et al. **J Neurooncol** 1996 Dec;30(3):213-23

Detection of delta opioid receptor and N-methyl-D-aspartate receptor-like immunoreactivity in retinoic acid-differentiated neuroblastoma x glioma (NG108-15) cells. Beczkowska IW, et al. **J Neurosci Res** 1997 Jan 1;47(1):83-9

Tumor in normal brain [letter; comment] Alvord EC Jr, et al. **J Neurosurg** 1997 Sep;87(3):484-5. Comment on: J Neurosurg 1997 Mar;86(3):525-31.

Chemotherapy of human malignant glioma: prevention of efficacy by dexamethasone? Weller M, et al. **Neurology** 1997 Jun;48(6):1704-9

Regulation of stimulatory adenylyl cyclase signaling during forskolin-induced differentiation of mouse neuroblastoma x rat glioma (NG108-15) cells. Ammer H, et al. **Neurosci Lett** 1997 Jul 25;230(3):143-6

[Brain tumors and colony stimulating factors] Kurisu K. **No Shinkei Geka** 1996 Aug;24(8):701-8 (40 ref.) **(Jpn)**

BLOOD SUPPLY

In vivo (31)P magnetic resonance spectroscopy and morphometric analysis of the perfused vascular architecture of human glioma xenografts in nude mice. van der Sanden BP, et al. **Br J Cancer** 1997;75(10):1432-8

Regulation of angiogenesis in malignant gliomas. Guerin C, et al. **EXS** 1997;79:47-64 (127 ref.)

Angiogenesis in human gliomas: prognostic and therapeutic implications. Johnson JP, et al. **EXS** 1997;79:29-46 (116 ref.)

Cerebral bloodflow in and around spontaneous malignant gliomas. Toglia A, et al. **Int J Hyperthermia** 1996 Jul-Aug; 12(4):461-76

Intravascular oxygen distribution in subcutaneous 9L tumors and radiation sensitivity. Cerniglia GJ, et al. **J Appl Physiol** 1997 Jun;82(6):1939-45

Proliferative potentials of glioma cells and vascular components determined with monoclonal antibody MIB-1. Di X, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):153-7

Characterization of the tumor invasion area in the rat intracerebral glioma. Ji Y, et al. **J Neurooncol** 1996 Dec; 30(3):189-97

Correlation of endothelin-1 and transforming growth factor beta 1 with malignancy and vascularity in human gliomas. Stiles JD, et al. **J Neuropathol Exp Neurol** 1997 Apr; 56(4):435-9

Dexamethasone inhibits glioma-induced formation of capillary like structures in vitro and angiogenesis in vivo. Wolff JE, et al. **Klin Padiatr** 1997 Jul-Aug;209(4):275-7

Tumor blood flow and the cytotoxic effects of estramustine and its constituents in a rat glioma model. Johansson M, et al. **Neurosurgery** 1997 Jul;41(1):237-43; discussion 243-4

Relationships among lactate concentration, blood flow and histopathologic profiles in rat C6 glioma. Terpstra M, et al. **NMR Biomed** 1996 Aug;9(5):185-94

Conditional switching of vascular endothelial growth factor (VEGF) expression in tumors: induction of endothelial cell shedding and regression of hemangioblastoma-like vessels by VEGF withdrawal. Benjamin LE, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8761-6

CHEMICALLY INDUCED

VEGF and bFGF mRNA are expressed in ethylnitrosourea-induced experimental rat gliomas. Okimoto T, et al. **Cell Mol Neurobiol** 1997 Feb;17(1):141-50

CHEMISTRY

Increased levels of cholesterol esters in glioma tissue and surrounding areas of human brain. Nygren C, et al. **Br J Neurosurg** 1997 Jun;11(3):216-20

Giant cells in cortical tubers in tuberous sclerosis showing synaptophysin-immunoreactive halos. Yamanouchi H, et al. **Brain Dev** 1997 Jan;19(1):21-4

Evidence that mobile lipids detected in rat brain glioma by 1H nuclear magnetic resonance correspond to lipid droplets. Rémy C, et al. **Cancer Res** 1997 Feb 1; 57(3):407-14

MIB-1 immunoreactivity reveals different labelling in low-grade and in malignant epithelial neoplasms of the choroid plexus. Vajtai I, et al. **Histopathology** 1996 Aug; 29(2):147-51

Synthesis of a glioma-related ganglioside, O-Ac GM3 having 3-O-Ac ceramide and its substrate property toward hydrolases. Tsuchihashi K, et al. **J Lipid Res** 1996 Oct; 37(10):2136-44

Distribution of tenascin in human malignant gliomas is not related to cell proliferation [letter] Castellani P, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):290-1

The fatty acid composition of human gliomas differs from that found in nonmalignant brain tissue. Martin DD, et al. **Lipids** 1996 Dec;31(12):1283-8

Metabotropic glutamate receptor expression in cultured rat astrocytes and human gliomas. Condorelli DF, et al. **Neurochem Res** 1997 Sep;22(9):1127-33

Expression of tissue factor in glioma. Hamada K, et al. **Noshuyo Byori** 1996 Nov;13(2):115-8

Immunohistochemical detection of p53 protein in tumours of the central nervous system. Kuchelmeister K, et al. **Pathologica** 1995 Oct;87(5):498-502

[Study by NMR of the modifications of brain lipid composition related to the tumor processes] Debouzy JC, et al. **Ann Pharm Fr** 1997;55(1):35-41 (Eng. Abstr.) **(Fre)**

[Analysis of proliferating cell nuclear antigen (PCNA) expression in brain tumors] Honjho Y, et al. **No Shinkei Geka** 1996 Feb;24(2):143-8 (Eng. Abstr.) **(Jpn)**

[Growth factors and neurotrophic factors with relevance to gliomas] Nagashima T. **No To Shinkei** 1997 Mar; 49(3):214-26 (132 ref.) **(Jpn)**

COMPLICATIONS

Neurocysticercosis among patients with cerebral gliomas. Del Brutto OH, et al. **Arch Neurol** 1997 Sep;54(9):1125-8

Glossopharyngeal neuralgia associated with vascular compression and choroid plexus papilloma. Greene KA, et al. **Br J Neurosurg** 1995;9(6):809-14

Velopharyngeal incompetence as the presenting symptom of malignant brainstem tumor. Lefaivre JF, et al. **Cleft Palate Craniofac J** 1997 Mar;34(2):154-8

Pediatric brain stem gliomas with the predominant symptom of sleep apnea. Ito K, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):53-64

Low-grade gliomas of chronic epilepsy: a distinct clinical and pathological entity. Bartolomei JC, et al. **J Neurooncol** 1997 Aug;34(1):79-84

Special issues in the management of gliomas in children with neurofibromatosis 1. Pollack IF, et al. **J Neurooncol** 1996 May-Jun;28(2-3):257-68 (64 ref.)

Optic chiasm glioma, electrolyte abnormalities, nonobstructive hydrocephalus and ascites. Shuper A, et al. **Med Pediatr Oncol** 1997 Jul;29(1):33-5

Dysphagia, dysarthria and falls in an elderly man. McGleenon B, et al. **Postgrad Med J** 1997 Jun; 73(860):321-2

[Brain stem glioma presenting with contralateral sensory impairment of ascending nature] Ikeda T, et al. **No To Shinkei** 1997 Jun;49(6):547-51 (Eng. Abstr.) **(Jpn)**

CONGENITAL

Choroid plexus papillomas of the III ventricle in infants. Report of three cases. Costa JM, et al. **Childs Nerv Syst** 1997 May;13(5):244-9

Poor outcome of bilateral congenital choroid plexus papillomas with extreme hydrocephalus. Di Rocco C, et al. **Eur Neurol** 1997;37(1):33-7

Congenital midline nasal masses: dermoids, gliomas, and encephaloceles. Fitzpatrick E, et al. **J La State Med Soc** 1996 Mar;148(3):93-6 (16 ref.)

[Congenital abnormalities of the prenasal space: glioma, fistulas and epidermoid cysts] Stoll W, et al. **Laryngorhinootologie** 1996 Dec;75(12):739-44 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Spin-lock imaging in contrast-enhanced magnetic resonance imaging of human gliomas. Aronen HJ, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S170-2

Inverse correlation between T1 relaxation times before and after administration of contrast media in malignant brain tumors. Niemi P, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S286-8

Primary spinal leptomeningeal gliomatosis presenting visual disturbance as the initial symptom: case report. Kobayashi M, et al. **Acta Neurochir (Wien)** 1996;138(4):480-1

Gliomatosis cerebri: clinical, radiological and pathological report of a case with a stroke-like onset. Schoenen J, et al. **Acta Neurol Belg** 1996 Dec;96(4):294-300 (35 ref.)

Gliomatosis cerebri--an appropriate diagnosis? Case reports. Fallentin E, et al. **Acta Radiol** 1997 May;38(3):381-90

Focal cortical dysplasia of Taylor, balloon cell subtype: MR differentiation from low-grade tumors. Bronen RA, et al. **AJNR Am J Neuroradiol** 1997 Jun-Jul;18(6):1141-51

Myxopapillary ependymoma of the filum terminale. Yamada CY, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):366

Extramedullary thoracic myxopapillary ependymoma--a case report of a rare tumour. Cheng CH, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):869-72

Optic nerve glioma mimicking an optic nerve meningioma. Liauw L, et al. **Clin Neurol Neurosurg** 1996 Aug; 98(3):258-61

Recognition and management of gliomas. Kaba SE, et al. **Drugs** 1997 Feb;53(2):235-44 (56 ref.)

Gliomatosis cerebri--a case report. Radhakrishnan VV, et al. **Indian J Cancer** 1996 Sep;33(3):149-52

Multicentric and multifocal primary cerebral tumours. Methods of diagnosis and treatment. Salvati M, et al. **Ital J Neurol Sci** 1997 Feb;18(1):17-20

Primary diffuse leptomeningeal gliomatosis with signs of increased intracranial pressure and progressive meningeal enhancement on MRI. Park JS, et al. **J Neuroimaging** 1996 Oct;6(4):250-4 (16 ref.)

Macroscopic tumor volume of malignant glioma determined by contrast-enhanced magnetic resonance imaging with and without magnetization transfer contrast. Hawighorst H, et al. **Magn Reson Imaging** 1996;14(10):1119-26

Meningeal gliomatosis [letter; comment] Vajtai I. **Neurology** 1997 Mar;48(3):788-9. Comment on: Neurology 1996 Jun;46(6):1760-2.

Gliomatosis cerebri presenting with optic nerve involvement: MRI. Felsberg GJ, et al. **Neuroradiology** 1996 Nov; 38(8):774-7

A difficult diagnosis of gliomatosis cerebri. Pyhtinen J, et al. **Neuroradiology** 1996 Jul;38(5):444-8

Functional magnetic resonance imaging of regional brain activity in patients with intracerebral gliomas: findings and implications for clinical management. Atlas SW, et al. **Neurosurgery** 1996 Feb;38(2):329-38

Brain stem involvement in children with neurofibromatosis type 1: role of magnetic resonance imaging and spectroscopy in the distinction from diffuse pontine glioma. Broniscer A, et al. **Neurosurgery** 1997 Feb;40(2):331-7; discussion 337-8 (29 ref.)

Gliomatosis cerebri: a case report. Matsumoto T, et al. **Noshuyo Byori** 1996 Apr;13(1):67-71

Development of a target-directed magnetic resonance contrast agent using monoclonal antibody-conjugated magnetic particles. Suzuki M, et al. **Noshuyo Byori** 1996 Nov;13(2):127-32

Evidence of optic pathway gliomas after previously negative

neuroimaging. Massry GG, et al. **Ophthalmology** 1997 Jun; 104(6):930–5 (35 ref.)

Cerebral and spinal cord myxopapillary ependymomas: a case report. al Moutaery K, et al. **Pathology** 1996 Nov; 28(4):373–6

Diffuse brainstem tumors: when is a biopsy necessary? Albright AL. **Pediatr Neurosurg** 1996;24(5):252–5 (27 ref.)

Radiologic classification of brain stem tumors: correlation of magnetic resonance imaging appearance with clinical outcome. Fischbein NJ, et al. **Pediatr Neurosurg** 1996; 24(1):9–23

Dorsally exophytic brain stem tumors and midbrain tumors. Hoffman HJ. **Pediatr Neurosurg** 1996;24(5):256–62

Prognostic value of contrast-enhanced magnetic resonance imaging in brainstem gliomas. Moghrabi A, et al. **Pediatr Neurosurg** 1995;23(6):293–8

A serial CT scan and MRI verification of diffuse cerebrospinal gliomatosis: a case report with stereotactic diagnosis and radiological confirmation. Onal C, et al. **Pediatr Neurosurg** 1996 Aug;25(2):94–9 (50 ref.)

Neuroimaging of primary brainstem gliomas: diagnosis and course. Zimmerman RA. **Pediatr Neurosurg** 1996 Jul; 25(1):45–53

Prognosis for children with supratentorial neuroglial tumors. Sobel EL, et al. **Pediatr Pathol Lab Med** 1997 Sep–Oct; 17(5):755–67

Contrast-enhanced magnetization transfer imaging: improvement of brain tumor conspicuity and delineation for radiosurgical target volume definition. Hawighorst H, et al. **Radiother Oncol** 1997 Jun;43(3):261–7

[Intracerebral tumor calcifications unrecognized by MRI] Venet C, et al. **J Radiol** 1997 Jan;78(1):55–6 (Eng. Abstr.) **(Fre)**

[High dosage administration of paramagnetic contrast media in diagnosis of focal brain lesions] Forsting M, et al. **Radiologe** 1996 Feb;36(2):101–6 (29 ref.) (Eng. Abstr.) **(Ger)**

[Diagnostic and therapeutic possibilities in adult malignant gliomas] Sipos L, et al. **Orv Hetil** 1996 Oct 6; 137(40):2187–91 (50 ref.) (Eng. Abstr.) **(Hun)**

[Optic gliomas in the first year of life] Caldarelli M, et al. **Minerva Pediatr** 1996 Dec;48(12):535–42 (Eng. Abstr.) **(Ita)**

[Clinical study of intraspinal neoplasms in children] Takahashi I, et al. **No Shinkei Geka** 1996 Jul;24(7):605–11 (Eng. Abstr.) **(Jpn)**

[Aicardi syndrome and choroid plexus papilloma: a rare association. Case report] Aguiar MD, et al. **Arq Neuropsiquiatr** 1996 Jun;54(2):313–7 (16 ref.) (Eng. Abstr.) **(Por)**

DRUG THERAPY

Therapy-related chronic myelomonocytic leukaemia with bone marrow eosinophilia associated with der(11)t(1;11)(q21;q14). Muroi K, et al. **Acta Haematol** 1996;96(4):251–4

Cellular targets of exogenous tumour necrosis factor-alpha (TNF alpha) in human gliomas. Maruno M, et al. **Acta Neurochir (Wien)** 1996;138(12):1437–41

Polymeric controlled-release amsacrine chemotherapy in an experimental glioma model. Wahlberg LU, et al. **Acta Neurochir (Wien)** 1996;138(11):1323–9; discussion 1329–30

Effect of glucocorticoids on ICP in patients with a cerebral tumour. Skjoeth J, et al. **Acta Neurol Scand** 1997 Sep; 96(3):167–70

Phase II trial with BCNU plus alpha-interferon in patients with recurrent high-grade gliomas. Brandes AA, et al. **Am J Clin Oncol** 1997 Aug;20(4):364–7

Intravenous carboplatin for recurrent gliomas. A dose-escalating phase II trial. Prados MD, et al. **Am J Clin Oncol** 1996 Dec;19(6):609–12

Recurrent supratentorial malignant gliomas in children. Long-term salvage therapy with oral etoposide. Chamberlain MC. **Arch Neurol** 1997 May;54(5):554–8

Chemotherapy for malignant gliomas. Forsyth PA, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):371–93 (112 ref.)

Biological and monoclonal antibody therapy for high-grade gliomas. Hoang-Xuan K, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):395–411 (98 ref.)

Urokinase antisense oligodeoxynucleotides as a novel therapeutic agent for malignant glioma: in vitro and in vivo studies of uptake, effects and toxicity. Engelhard H, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):400–5

Inhibitory effect of selenium and change of glutathione peroxidase activity on rat glioma. Zhang ZH, et al. **Biol Trace Elem Res** 1996 Oct–Nov;55(1–2):31–8

DNA interstrand cross-linking and cytotoxicity induced by chloroethylnitrosoureas and cisplatin in human glioma cell lines which vary in cellular concentration of O6-alkylguanine-DNA alkyltransferase. Beith J, et al. **Br J Cancer** 1997;75(4):500–5

Murine P-glycoprotein on stromal vessels mediates multidrug resistance in intracerebral human glioma xenografts. Takamiya Y, et al. **Br J Cancer** 1997;76(4):445–50

Proliferation, migration and invasion of human glioma cells exposed to paclitaxel (Taxol) in vitro. Terzis AJ, et al. **Br J Cancer** 1997;75(12):1744–52

Pharmacological evidence that the activation of the Na(+)-Ca2+ exchanger protects C6 glioma cells during chemical hypoxia. Amoroso S, et al. **Br J Pharmacol** 1997 May;121(2):303–9

Identification of potent P2Y-purinoceptor agonists that are derivatives of adenosine 5'-monophosphate. Boyer JL, et al. **Br J Pharmacol** 1996 Aug;118(8):1959–64

Pre-radiation chemotherapy for malignant glioma in adults. Kirby S, et al. **Can J Neurol Sci** 1996 May;23(2):123–7

Thiotepa and etoposide treatment of recurrent malignant gliomas: phase I study. Balmaceda C, et al. **Cancer Chemother Pharmacol** 1997;40(1):72–4

L-amino acid oxidase (LOX) modulation of melphalan activity against intracranial glioma. Moynihan K, et al. **Cancer Chemother Pharmacol** 1997;39(3):179–86

Interstitial delivery of carboplatin via biodegradable polymers is effective against experimental glioma in the rat. Olivi A, et al. **Cancer Chemother Pharmacol** 1996; 39(1–2):90–6

The role of chemotherapy in recurrent malignant gliomas: an overview. Brandes AA, et al. **Cancer Invest** 1996; 14(6):551–9 (83 ref.)

2-Chloroethyl-3-sarcosinamide-1-nitrosourea, a novel chloroethylnitrosourea analogue with enhanced antitumor activity against human glioma xenografts. Marcantonio D, et al. **Cancer Res** 1997 Sep 15;57(18):3895–8

Radiotherapy and chemotherapy for gliomas. Delattre JY, et al. **Curr Opin Oncol** 1996 May;8(3):196–203 (76 ref.)

A study of anterior pituitary hormones secretion in patients with glioma receiving interferon-beta treatment. Yamada S, et al. **Endocr J** 1996 Jun;43(3):335–8

Chemotherapy of high-grade gliomas: beginning of a new era or the end of the old? [editorial] Brada M, et al. **Eur J Cancer** 1996 Dec;32A(13):2193–4

The Charing Cross Hospital experience with temozolomide in patients with gliomas. Newlands ES, et al. **Eur J Cancer** 1996 Dec;32A(13):2236–41

Treatment of recurrent malignant supratentorial gliomas with ifosfamide, carboplatin and etoposide: a phase II study. Sanson M, et al. **Eur J Cancer** 1996 Dec;32A(13):2229–35

Quantitative DNA analysis of an intracerebrally transplanted brain tumour model after experimental chemotherapy with BCNU and CCNU. Schlegel J, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):313–8

Transduction of cytosine deaminase gene makes rat glioma cells highly sensitive to 5-fluorocytosine. Ge K, et al. **Int J Cancer** 1997 May 16;71(4):675–9

Phase II trial of docetaxel in patients with recurrent malignant glioma: a study of the National Cancer Institute of Canada Clinical Trials Group. Forsyth P, et al. **Invest New Drugs** 1996;14(2):203–6

Correction--malignant glioma [letter] Atiba JO, et al. **J Clin Oncol** 1997 Mar;15(3):1286–7

Treatment of recurrent malignant supratentorial gliomas with the association of carboplatin and etoposide: a phase II study. Ameri A, et al. **J Neurooncol** 1997 Apr;32(2):155–60

Estramustine in malignant glioma. Bergenheim AT, et al. **J Neurooncol** 1996 Oct;30(1):81–9 (79 ref.)

Prolonged treatment with biologic agents for malignant glioma: a case study with high dose tamoxifen. Cloughesy TF, et al. **J Neurooncol** 1997 Oct;35(1):39–45

All-trans retinoic acid in relapsing malignant gliomas: clinical and radiological stabilization associated with the appearance of intratumoral calcifications. Defer GL, et al. **J Neurooncol** 1997 Sep;34(2):169–77

The treatment of recurrent cerebral gliomas with all-trans-retinoic acid (tretinoin). Kaba SE, et al. **J Neurooncol** 1997 Sep;34(2):145–51

In vitro and in vivo antiproliferative effects of simvastatin, an HMG-CoA reductase inhibitor, on human glioma cells. Kikuchi T, et al. **J Neurooncol** 1997 Sep;34(3):233–9

The expanding role of chemotherapy for pediatric supratentorial malignant gliomas. Lyden DC, et al. **J Neurooncol** 1996 May-Jun;28(2–3):185–91 (65 ref.)

Treatment of pediatric low-grade gliomas with a nitrosourea-based multiagent chemotherapy regimen. Prados MD, et al. **J Neurooncol** 1997 May;32(3):235–41

Intracarotid recombinant human tumor necrosis factor-alpha reduces cerebral blood flow and methionine uptake in rat brain tumors. Sasajima T, et al. **J Neurooncol** 1997 Sep; 34(2):123–9

Parenchymal damage in the territory of the anterior choroidal artery following supraophthalmic intracarotid administration of CDDP for treatment of malignant gliomas. Tamaki M, et al. **J Neurooncol** 1997 Oct; 35(1):65–72

Carboplatin and vincristine chemotherapy for children with newly diagnosed progressive low-grade gliomas. Packer RJ, et al. **J Neurosurg** 1997 May;86(5):747–54

Second temporal remission in a malignant glioma with trofosfamide and etoposide: a case report. Wolff JE, et al. **Klin Padiatr** 1996 Jul-Aug;208(4):190–2

Viral vector-mediated transduction of a modified platelet factor 4 cDNA inhibits angiogenesis and tumor growth. Tanaka T, et al. **Nat Med** 1997 Apr;3(4):437–42

Effects of interferon and PKC modulators on human glioma protein kinase C, cell proliferation, and cell cycle. Acevedo-Duncan M, et al. **Neurochem Res** 1997 Jul; 22(7):775–84

Phase II study of DTIC, ACNU, and vincristine combination chemotherapy for supratentorial malignant astrocytomas. Ikeda J, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):555–8; discussion 558–9

Suppression of tumor growth in experimental 9L gliosarcoma model by copper depletion [letter; comment] Philipov P. **Neurol Med Chir (Tokyo)** 1996 Feb;36(2):115–6. Comment on: Neurol Med Chir (Tokyo) 1995 Mar;35(3):133–5.

Increased delivery of a new cisplatin analogue (254-S) in a rat brain tumor by an intracarotid infusion of bradykinin. Koga H, et al. **Neurol Res** 1996 Jun;18(3):244–7

Effects of clomipramine and verapamil on 5-HT-induced intracellular calcium changes in individual C6 rat glioma cells. Yamaji T, et al. **Neuropsychobiology** 1996;33(2):55–9

Effects of carbamazepine and sodium valproate on 5-HT-induced calcium increase in individual C6 rat glioma cells. Yamaji T, et al. **Neuropsychobiology** 1996;34(1):22–5

Technetium-MIBI as a glioma imaging agent for the assessment of multi-drug resistance. Andrews DW, et al. **Neurosurgery** 1997 Jun;40(6):1323–32; discussion 1333–4

Combination of 6-thioguanine, procarbazine, lomustine, and hydroxyurea for patients with recurrent malignant gliomas. Kyritsis AP, et al. **Neurosurgery** 1996 Nov;39(5):921–6

Enhanced tumor uptake of carboplatin and survival in glioma-bearing rats by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **Neurosurgery** 1996 Jul;39(1):125–33; discussion 133–4

Effect of stereotactic implantation of biodegradable 5-fluorouracil-loaded microspheres in healthy and C6 glioma-bearing rats. Menei P, et al. **Neurosurgery** 1996 Jul; 39(1):117–23; discussion 123–4

Interstitial chemotherapy with carmustine-loaded polymers for high-grade gliomas: a randomized double-blind study. Valtonen S, et al. **Neurosurgery** 1997 Jul;41(1):44–8; discussion 48–9

In vivo 31P MRS evaluation of ganciclovir toxicity in C6 gliomas stably expressing the herpes simplex thymidine kinase gene. Stegman LD, et al. **NMR Biomed** 1996 Dec; 9(8):364–8

Contemporary chemotherapy issues for children with brainstem gliomas. Allen JC, et al. **Pediatr Neurosurg** 1996; 24(2):98–102

Photodynamic therapy of human glioma (U87) in the nude rat. Chopp M, et al. **Photochem Photobiol** 1996 Oct; 64(4):707–11

Accelerated radiotherapy with carbogen and nicotinamide (ARCON) in high grade malignant gliomas [letter; comment] Lambin P, et al. **Radiother Oncol** 1997 Jun; 43(3):324. Comment on: Radiother Oncol 1996 Sep;40(3):245–7.

[Retinoids and glial tumors. A new therapeutic approach? (editorial)] Defer G. **Rev Neurol (Paris)** 1996 Nov; 152(11):653–7 (24 ref.) **(Fre)**

[HIT-GBM: multicenter study of treatment of children with malignant glioma] Wolff JE, et al. **Klin Padiatr** 1996 Jul-Aug;208(4):193–6 (Eng. Abstr.) **(Ger)**

[Histopathological and autoradiographical studies of experimental brain tumors after continuous local chemotherapy--acute stage in rat models] Shimura T, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):713–8 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Increased activity of lysosomal glycohydrolases in glioma tissue and surrounding areas from human brain. Nygren C, et al. **Acta Neurochir (Wien)** 1997;139(2):146–50

Nitric oxide synthase is expressed in experimental malignant glioma and influences tumour blood flow. Whittle IR, et al. **Acta Neurochir (Wien)** 1996;138(7):870–5; discussion 875–6

Differential telomerase expression in human primary intracranial tumors. DeMasters BK, et al. **Am J Clin Pathol** 1997 May;107(5):548–54

Modulation of glioma cell growth and 5-lipoxygenase expression by interferon. Naidu KA, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3475–82

Differential inhibition of telomerase activity during induction of differentiation in hematopoietic, melanoma, and glioma cells in culture. Cheng AJ, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):438–44

Insulin-like growth factor I induces tumor hexokinase RNA expression in cancer cells. Sebastian S, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):389–93

DNA interstrand cross-linking and cytotoxicity induced by chloroethylnitrosoureas and cisplatin in human glioma cell lines which vary in cellular concentration of O6-alkylguanine-DNA alkyltransferase. Beith J, et al. **Br J Cancer** 1997;75(4):500–5

Mechanisms of glioma invasion: role of matrix-metalloproteinases. Uhm JH, et al. **Can J Neurol Sci** 1997 Feb;24(1):3–15 (143 ref.)

An inverse correlation between expression of NCAM-A and the matrix-metalloproteinases gelatinase-A and gelatinase-B in human glioma cells in vitro. Maidment SL, et al. **Cancer Lett** 1997 Jun 3;116(1):71–7

Inhibition of cell growth and sensitization to oxidative damage by overexpression of manganese superoxide dismutase in rat glioma cells. Zhong W, et al. **Cell Growth Differ** 1996 Sep;7(9):1175–86

Stress response of lysosomal cysteine proteinases in rat C6 glioma cells. Xu C, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):169–78

The effect of exogenous gangliosides on matrix metalloproteinase secretion by human glioma cells in vitro. Maidment SL, et al. **Eur J Cancer** 1996 May;32A(5):868–71

Secretion of protease nexin-1 by C6 glioma cells is under the control of a heterotrimeric G protein, Go1. Lagriffoul A, et al. **J Biol Chem** 1996 Dec 6;271(49):31508–16

Point mutations can inactivate in vitro and in vivo activities of p16(INK4a)/CDKN2A in human glioma. Arap W, et al. **Oncogene** 1997 Feb 6;14(5):603–9

Activity of 5-formyl tetrahydrofolate cyclodehydrase and 5,10-methenyl tetrahydrofolate cyclohydrolase in primary brain tumors in children. Tzortzatou-Stathopoulou F, et al. **Pediatr Hematol Oncol** 1996 Nov–Dec;13(6):511–9

EPIDEMIOLOGY

Familial and personal medical history of cancer and nervous system conditions among adults with glioma and controls. Wrensch M, et al. **Am J Epidemiol** 1997 Apr 1; 145(7):581–93

Epidemiology of childhood brain tumors. Miltenburg D, et al. **Can J Neurol Sci** 1996 May;23(2):118–22

Dietary and other lifestyle factors of women with brain gliomas in Los Angeles County (California, USA) [see comments] Blowers L, et al. **Cancer Causes Control** 1997 Jan;8(1):5–12. Comment in: Cancer Causes Control 1997 Jan;8(1):3–4.

What do we know about risk factors for glioma? [editorial; comment] Giles GG. **Cancer Causes Control** 1997 Jan; 8(1):3–4. Comment on: Cancer Causes Control 1997 Jan;8(1):5–12. Comment on: Cancer Causes Control 1997 Jan;8(1):13–24.

Dietary and tobacco risk factors for adult onset glioma in the San Francisco Bay Area (California, USA) [see comments] Lee M, et al. **Cancer Causes Control** 1997 Jan; 8(1):13–24. Comment in: Cancer Causes Control 1997 Jan;8(1):3–4.

Association of adult glioma with medical conditions, family and reproductive history. Cicuttini FM, et al. **Int J Cancer** 1997 Apr 10;71(2):203–7

An analysis of intraspinal tumors in south Taiwan. Cheang CM, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr;13(4):229–36

An association between optic glioma and other tumours of the central nervous system in neurofibromatosis type 1. Friedman JM, et al. **Neuropediatrics** 1997 Apr;28(2):131–2

[Optic nerve gliomas: a study of 11 cases] Torres LF, et al. **Arq Neuropsiquiatr** 1996 Jun;54(2):280–3 (Eng. Abstr.) **(Por)**

ETIOLOGY

Does prior infection with varicella-zoster virus influence risk of adult glioma? Wrensch M, et al. **Am J Epidemiol** 1997 Apr 1;145(7):594–7

Post-traumatic malignant glioma. Report of a case. Di Trapani G, et al. **Ital J Neurol Sci** 1996 Aug;17(4):283–6

Tobacco smoking and alcohol consumption as risk factors for glioma: a case-control study in Melbourne, Australia. Hurley SF, et al. **J Epidemiol Community Health** 1996 Aug; 50(4):442–6

Endocrinologic disorders and optic pathway gliomas in children with neurofibromatosis type 1. Cnossen MH, et al. **Pediatrics** 1997 Oct;100(4):667–70 (24 ref.)

Primary brain cancer in adults and the use of common household appliances: a case-control study. Mutnick A, et al. **Rev Environ Health** 1997 Jan–Mar;12(1):59–62

GENETICS

Glioma cells transduced with selection transgenes may not form gliomas in vivo and can also inhibit glioma formation by admixed wild glioma cell lines. Whittle IR, et al. **Acta Neurochir Suppl (Wien)** 1997;68:139–43

Cytogenetic analysis of gliomas by in situ hybridization of stereotactic biopsy material. Lippitz BE, et al. **Acta Neurochir (Wien)** 1997;139(1):22–5

Familial and personal medical history of cancer and nervous system conditions among adults with glioma and controls. Wrensch M, et al. **Am J Epidemiol** 1997 Apr 1; 145(7):581–93

Transformation of human glioma cell lines with the p16 gene inhibits cell proliferation. Hama S, et al. **Anticancer Res** 1997 May–Jun;17(3C):1933–8

Localization of aberrant messenger RNA of epidermal growth factor receptor (EGFR) in malignant glioma. Tsugu A, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2225–32

Molecular genetics and tumour suppressor genes in gliomas. Kyritsis AP, et al. **Baillieres Clin Neurol** 1996 Jun; 5(2):295–305 (78 ref.)

High glycolysis in gliomas despite low hexokinase transcription and activity correlated to chromosome 10 loss. Oudard S, et al. **Br J Cancer** 1996 Sep;74(6):839–45

Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al. **Brain Pathol** 1996 Jul;6(3):217–23; discussion 23–4

Loss of heterozygosity on chromosome 22 in human gliomas does not inactivate the neurofibromatosis type 2 gene. Watkins D, et al. **Cancer Genet Cytogenet** 1996 Nov; 92(1):73–8

Molecular and cellular pathology of intrinsic brain tumours. Merzak A, et al. **Cancer Metastasis Rev** 1997 Jun; 16(1–2):155–77 (255 ref.)

Cyclin-dependent kinase 6 (CDK6) amplification in human gliomas identified using two-dimensional separation of genomic DNA. Costello JF, et al. **Cancer Res** 1997 Apr 1;57(7):1250–4

Somatic mutations of the von Hippel–Lindau tumor suppressor gene and loss of heterozygosity on chromosome 3p in human glial tumors. Kanno H, et al. **Cancer Res** 1997 Mar 15;57(6):1035–8

Expression of oligodendrocytic mRNAs in glial tumors: changes associated with tumor grade and extent of neoplastic infiltration. Landry CF, et al. **Cancer Res** 1997 Sep 15;57(18):4098–104

Loss of DCC expression and glioma progression. Reyes-Mugica M, et al. **Cancer Res** 1997 Feb 1;57(3):382–6

IGF2 but not H19 shows loss of imprinting in human glioma. Uyeno S, et al. **Cancer Res** 1996 Dec 1;56(23):5356–9

Reduced expression of mismatch repair genes measured by multiplex reverse transcription-polymerase chain reaction in human gliomas. Wei Q, et al. **Cancer Res** 1997 May 1; 57(9):1673–7

Population-based study of glutathione S-transferase mu gene deletion in adult glioma cases and controls. Wiencke JK, et al. **Carcinogenesis** 1997 Jul;18(7):1431–3

VEGF and bFGF mRNA are expressed in ethylnitrosourea-induced experimental rat gliomas. Okimoto T, et al. **Cell Mol Neurobiol** 1997 Feb;17(1):141–50

Advances in the molecular genetics of gliomas. Nagane M, et al. **Curr Opin Oncol** 1997 May;9(3):215–22 (76 ref.)

Prostaglandin A2 specifically represses insulin-like growth factor-I gene expression in C6 rat glioma cells. Bui T, et al. **Endocrinology** 1997 Mar;138(3):985–93

Effects of cisplatin and amphotericin B on DNA adduct formation and toxicity in malignant glioma and normal tissues in rat. Bergström P, et al. **Eur J Cancer** 1997 Jan; 33(1):153–9

Post-transcriptional induction of beta 1-adrenergic receptor by retinoic acid, but not triiodothyronine, in C6 glioma cells expressing thyroid hormone receptors [see comments] López-Barahona M, et al. **Eur J Endocrinol** 1996 Dec; 135(6):709–15. Comment in: Eur J Endocrinol 1996 Dec;135(6):651–2.

Characterisation of X;17(q12;p13) translocation breakpoints in a female patient with hypomelanosis of Ito and choroid plexus papilloma. Zajac V, et al. **Eur J Hum Genet** 1997 Mar–Apr;5(2):61–8

Quantitative DNA analysis of an intracerebrally transplanted brain tumour model after experimental chemotherapy with BCNU and CCNU. Schlegel J, et al. **Exp Toxicol Pathol** 1995 Sep;47(4):313–8

Early proliferation enhancement by monosomy 10 and intratumor heterogeneity in malignant human gliomas as revealed by smear preparations from biopsies. Steilen-Gimbel H, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):180–4

Loss of heterozygosity of chromosome 10p in human gliomas. Kimmelman AC, et al. **Genomics** 1996 Jun 1;34(2):250–4

p53 mutation and protein alteration in 50 gliomas. Retrospective study by DNA-sequencing techniques and immunohistochemistry. von Eckardstein K, et al. **Histol Histopathol** 1997 Jul;12(3):611–6

HSV/AAV hybrid amplicon vectors extend transgene expression in human glioma cells. Johnston KM, et al. **Hum Gene Ther** 1997 Feb 10;8(3):359–70

Twelve amplified and expressed genes localized in a single domain in glioma. Fischer U, et al. **Hum Genet** 1996 Nov; 98(5):625–8

Gene transfection-mediated overexpression of beta1,4-N-acetylglucosamine bisecting oligosaccharides in glioma cell line U373 MG inhibits epidermal growth factor receptor function. Rebbaa A, et al. **J Biol Chem** 1997 Apr 4;272(14):9275–9

Loss of heterozygosity on chromosome 10, 13q(Rb), 17p, and p53 gene mutations in human brain gliomas. Lee SH, et al. **J Korean Med Sci** 1995 Dec;10(6):442–8

Cloning of the rat fibroblast growth factor-2 promoter region and its response to mitogenic stimuli in glioma C6 cells. Pasumarthi KB, et al. **J Neurochem** 1997 Mar;68(3):898–908

Induction of differentiation by wild-type p53 gene in a human glioma cell line. Kokunai T, et al. **J Neurooncol** 1997 Apr; 32(2):125–33

Molecular biology of pediatric gliomas. Raffel C. **J Neurooncol** 1996 May–Jun;28(2–3):121–8 (92 ref.)

Adenovirus-mediated wild-type p53 gene transfer and overexpression induces apoptosis of human glioma cells independent of endogenous p53 status. Li H, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):872–8

Detection of p16 gene deletions in gliomas: a comparison of fluorescence in situ hybridization (FISH) versus quantitative PCR. Perry A, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):999–1008

Analysis of p53 mutation and epidermal growth factor receptor amplification in recurrent gliomas with malignant progression. Reifenberger J, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):822–31

Differential expression of M-CSF, LIF, and TNF-alpha genes in normal and malignant rat glial cells: regulation by lipopolysaccharide and vitamin D. Furman I, et al. **J Neurosci Res** 1996 Nov 1;46(3):360–6

Regulated expression of the diphtheria toxin A gene in human glioma cells using prokaryotic transcriptional control elements. Paulus W, et al. **J Neurosurg** 1997 Jul;87(1):89–95

A comparative study of glioma cell lines for p16, p15, p53 and p21 gene alterations. Zhang S, et al. **Jpn J Cancer Res** 1996 Sep;87(9):900–7

Comparative analyses of relative ERCC3 and ERCC6 mRNA levels in gliomas and adjacent non-neoplastic brain. Dabholkar MD, et al. **Mol Carcinog** 1996 Sep;17(1):1–7

A deletion polymorphism due to Alu-Alu recombination in intron 2 of the retinoblastoma gene: association with human gliomas. Rothberg PG, et al. **Mol Carcinog** 1997 Jun; 19(2):69–73

Repeated exposure to cationic immunoliposomes activates effective gene transfer to human glioma cells. Mizuno M, et al. **Neurol Med Chir (Tokyo)** 1996 Mar;36(3):141–4

Expression of N-ras gene in gliomas. Tsurushima H, et al. **Neurol Med Chir (Tokyo)** 1996 Oct;36(10):704–8

Analysis of p53 gene mutations in human glioma cell lines. Koga H, et al. **Noshuyo Byori** 1996 Apr;13(1):1–10

Point mutations can inactivate in vitro and in vivo activities of p16(INK4a)/CDKN2A in human glioma. Arap W, et al. **Oncogene** 1997 Feb 6;14(5):603–9

Hypermethylation of the CpG island of p16/CDKN2 correlates with gene inactivation in gliomas. Fueyo J, et al. **Oncogene** 1996 Oct 17;13(8):1615–9

Refined deletion mapping of the chromosome 19q glioma tumor suppressor gene to the D19S412-STD interval. Rosenberg JE, et al. **Oncogene** 1996 Dec 5;13(11):2483–5

Induction of senescence in human malignant glioma cells by p16INK4A. Uhrbom L, et al. **Oncogene** 1997 Jul 31; 15(5):505–14

Characterization of genomic alterations associated with glioma progression by comparative genomic hybridization. Weber RG, et al. **Oncogene** 1996 Sep 5;13(5):983–94

[Genetic alterations of gliomas] Tabuchi K, et al. **No To Shinkei** 1997 Mar;49(3):205–13 (36 ref.) **(Jpn)**

[Application of high resolution FISH to genome analysis and cancer genetics] Inazawa J, et al. **Tanpakushitsu Kakusan Koso** 1996 Nov;41(15 Suppl):2182–90 (21 ref.) **(Jpn)**

IMMUNOLOGY

Molecular detection of tumor-associated antigens shared by human cutaneous melanomas and gliomas. Chi DD, et al. **Am J Pathol** 1997 Jun;150(6):2143–52

Activated lymphoid cells in human gliomas: morphofunctional and cytochemical evidence. Nano R, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):107–11

Ex vivo expansion of tumor-draining lymph node cells using compounds which activate intracellular signal transduction. I. Characterization and in vivo anti-tumor activity of glioma-sensitized lymphocytes. Baldwin NG, et al. **J Neurooncol** 1997 Mar;32(1):19–28

Augmentation of anti-Fas antibody-mediated apoptosis on human glioma cells by liposomes associated with the antibody. Ohta S, et al. **J Neurooncol** 1997 Oct;35(1):7–11

Ex vivo expansion of tumor-draining lymph node cells using compounds which activate intracellular signal transduction. II. Cytokine production and in vivo efficacy of glioma-sensitized lymphocytes. Rice CD, et al. **J Neurooncol** 1997 Mar;32(1):29–38

Use of MIB-1 (Ki-67) immunoreactivity in differentiating grade II and grade III gliomas. Hsu DW, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):857–65

Apoptosis of human glioma cells in vitro and in vivo induced by a neutralizing antibody against human basic fibroblast growth factor. Murai N, et al. **J Neurosurg** 1996 Dec; 85(6):1072–7

Detection of MAGE-1 tumor antigen in brain tumor. Kuramoto T. **Kurume Med J** 1997;44(1):43–51

Adoptive immunotherapy of malignant glioma using tumor-sensitized T lymphocytes. Merchant RE, et al. **Neurol Res** 1997 Apr;19(2):145–52 (11 ref.)

[Glioma and intracerebral immunity] Shimizu K. **No To Shinkei** 1997 Mar;49(3):239–50 (104 ref.) **(Jpn)**

METABOLISM

The presence of foetal ganglioside antigens 3'-isoLM1 and 3'6'-isoLD1 in both glioma tissue and surrounding areas from human brain. von Holst H, et al. **Acta Neurochir (Wien)** 1997;139(2):141–5

Monocyte chemoattractant protein-1 expression and macrophage infiltration in gliomas. Leung SY, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):518–27

Lymphocyte adhesion molecule ligands and extracellular matrix proteins in gliomas and normal brain: expression of VCAM-1 in gliomas. Mäenpää A, et al. **Acta Neuropathol (Berl)** 1997 Sep;94(3):216–25

In vitro evaluation of iodine-125-labeled monoclonal antibody (MAb 425) in human high-grade glioma cells. Emrich JG, et al. **Am J Clin Oncol** 1996 Dec;19(6):601–8

Cyclocreatine transport and cytotoxicity in rat glioma and human ovarian carcinoma cells: 31P-NMR spectroscopy. Schiffenbauer YS, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C160–9

Measurement of intracellular calcium in cell populations loaded with aequorin: neurokinin-1 responses in U373MG cells. Hedley L, et al. **Anal Biochem** 1996 May 1; 236(2):270–4

Gliomas are driven by glycolysis: putative roles of hexokinase, oxidative phosphorylation and mitochondrial ultrastructure. Oudard S, et al. **Anticancer Res** 1997 May–Jun;17(3C):1903–11

Inhibition by 2-arachidonoylglycerol, a novel type of possible neuromodulator, of the depolarization-induced increase in intracellular free calcium in neuroblastoma x glioma hybrid NG108-15 cells. Sugiura T, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):207–10

Glucose and glutamine metabolism in C6 glioma cells studied

by carbon 13 NMR. Portais JC, et al. **Biochimie** 1996; 78(3):155–64

MDM2 and p53 expression in gliomas: a multivariate survival analysis including proliferation markers and epidermal growth factor receptor. Korkolopoulou P, et al. **Br J Cancer** 1997;75(9):1269–78

Anomalous patterns of nitroimidazole binding adjacent to necrosis in human glioma xenografts: possible role of decreased oxygen consumption. Parliament MB, et al. **Br J Cancer** 1997;75(3):311–8

Histamine-stimulated expression of insulin-like growth factors in human glioma cells. Van der Ven LT, et al. **Br J Cancer** 1997;75(8):1091–7

Modulation by calcineurin of 5-HT3 receptor function in NG108-15 neuroblastoma x glioma cells. Boddeke HW, et al. **Br J Pharmacol** 1996 Aug;118(7):1836–40

Characterization of Ca(2+)-activated 86Rb+ fluxes in rat C6 glioma cells: a system for identifying novel IKCa-channel toxins. de-Allie FA, et al. **Br J Pharmacol** 1996 Feb;117(3):479–487

Overexpression of the EGF receptor and p53 mutations are mutually exclusive in the evolution of primary and secondary glioblastomas. Watanabe K, et al. **Brain Pathol** 1996 Jul;6(3):217–23; discussion 23–4

alpha2,3-sialyltransferase mRNA and alpha2,3-linked glycoprotein sialylation are increased in malignant gliomas. Yamamoto H, et al. **Brain Res** 1997 Apr 25;755(1):175–9

Identification of adrenomedullin receptors in cultured rat astrocytes and in neuroblastboma x glioma hybrid cells (NG108-15). Zimmermann U, et al. **Brain Res** 1996 Jun 17;724(2):238–45

Tetrahydrobiopterin biosynthesis in C6 glioma cells: induction of GTP cyclohydrolase I gene expression by lipopolysaccharide and cytokine treatment. D'Sa C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):105–10

Two types of amyloid precursor protein (APP) mRNA in rat glioma cell lines: upregulation via a cyclic AMP-dependent pathway. Gegelashvili G, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):151–6

Expression of serotonin receptors in human fetal astrocytes and glioma cell lines: a possible role in glioma cell proliferation and migration. Merzak A, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1-2):1–7

Rat C6 and human astrocytic tumor cells express a neuronal type of glutamate transporter. Palos TP, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1-2):297–303

beta-Amyloid regulates gene expression of glial trophic substance S100 beta in C6 glioma and primary astrocyte cultures. Peña LA, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):118–26

Serum deprivation alters the expression and the splicing at exons 7, 8 and 15 of the beta-amyloid precursor protein in the C6 glioma cell line. Sudoh S, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1-2):12–22

In vivo microdialysis to characterize drug transport in brain tumors: analysis of methotrexate uptake in rat glioma-2 (RG-2)-bearing rats. Devineni D, et al. **Cancer Chemother Pharmacol** 1996;38(6):499–507

Detection of membrane-associated human chorionic gonadotropin and its subunits on human cultured cancer cells of the nervous system. Acevedo HF, et al. **Cancer Detect Prev** 1997;21(4):295–303

Up-regulation of vascular endothelial growth factor expression in a rat glioma is conferred by two distinct hypoxia-driven mechanisms. Damert A, et al. **Cancer Res** 1997 Sep 1;57(17):3860–4

Cell surface localization and density of the tumor-associated variant of the epidermal growth factor receptor, EGFRvIII. Wikstrand CJ, et al. **Cancer Res** 1997 Sep 15; 57(18):4130–40

Ether lipid-induced cell damage of neuroblastoma cells is only weakly correlated with increased intracellular Ca2+ levels. Brinkmeier H, et al. **Cell Calcium** 1996 May; 19(5):383–90

Endothelin binding to NG108-15 cells: evidence for conventional ETA and ETB receptor subtypes and super-high affinity binding components. Angelova K, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Dec;42(8):1243–57

Endocrine outcome in long-term survivors of low-grade hypothalamic/chiasmatic glioma. Collet-Solberg PF, et al. **Clin Endocrinol (Oxf)** 1997 Jul;47(1):79–85

Role of extracellular matrix proteins in regulation of human glioma cell invasion in vitro. Chintala SK, et al. **Clin Exp Metastasis** 1996 Sep;14(4):358–66

Expression of cysteine protease inhibitors in human gliomas and meningiomas. Sivaparvathi M, et al. **Clin Exp Metastasis** 1996 Sep;14(4):344–50

Heparin inhibition of insulin-like growth factor-binding protein-3 binding to human fibroblasts and rat glioma cells: role of heparan sulfate proteoglycans. Yang YW, et al. **Endocrinology** 1996 Oct;137(10):4363–71

Characterization of metabotropic glutamate receptors in rat C6 glioma cells. Albasanz JL, et al. **Eur J Pharmacol** 1997 May 12;326(1):85–91

Chronic exposure of NG 108-15 cells to inhibitory acting drugs reduces stimulatory prostaglandin E1 receptor number. Ammer H, et al. **Eur J Pharmacol** 1996 Apr 29; 302(1-3):199–205

Regulation of the functional activity of the human dopamine transporter by the arachidonic acid pathway. Zhang L, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):345–54

Cell density regulates crypticity of GM3 ganglioside on human glioma cells. Tatewaki K, et al. **Exp Cell Res** 1997 May 25;233(1):145–54

Unlocking the blood-brain barrier: a role for RMP-7 in brain tumor therapy. Elliott PJ, et al. **Exp Neurol** 1996 Oct; 141(2):214–24

Specific binding sites for rat prepro-TRH-(160-169) on C6 glioma and BN1010 clonal neural cells. Ladram A, et al. **FEBS Lett** 1997 Feb 24;403(3):287–93

Functional expression, activation and desensitization of opioid receptor-like receptor ORL1 in neuroblastoma x glioma NG108-15 hybrid cells. Ma L, et al. **FEBS Lett** 1997 Feb 10;403(1):91–4

In vivo growth conditions suppress the expression of ganglioside GM2 and favour that of lacto series gangliosides in the human glioma D-54MG cell line. Fredman P, et al. **Glycoconj J** 1996 Jun;13(3):391–9

Biodistribution of 125I-MAb 425 in a human glioma xenograft model: effect of chloroquine. Emrich JG, et al. **Hybridoma** 1997 Feb;16(1):93–100

Response of the methionine synthase system to short-term culture with homocysteine and nitrous oxide and its relation to methionine dependence. Fiskerstrand T, et al. **Int J Cancer** 1997 Jul 17;72(2):301–6

Human brain tumor O(6)-methylguanine-DNA methyltransferase mRNA and its significance as an indicator of selective chloroethylnitrosourea chemotherapy. Mineura K, et al. **Int J Cancer** 1996 Oct 21;69(5):420–5

The paracrine role of tumour-derived mIL-4 on tumour-associated endothelium. Saleh M, et al. **Int J Cancer** 1997 Aug 7;72(4):664–72

Release of replication-deficient retroviruses from a packaging cell line: interaction with glioma tumor spheroids in vitro. Thorsen F, et al. **Int J Cancer** 1997 May 29;71(5):874–80

Effect of hyperthermia on cisplatin sensitivity in human glioma and ovarian carcinoma cell lines resistant and sensitive to cisplatin treatment. Raaphorst GP, et al. **Int J Hyperthermia** 1996 Mar-Apr;12(2):211–22

Enhanced radiosensitivity by inhibition of nuclear factor kappa B activation in human malignant glioma cells. Yamagishi N, et al. **Int J Radiat Biol** 1997 Aug;72(2):157–62

Difluoromethylornithine enhanced uptake of tritiated putrescine in 9L rat brain tumors. Redgate ES, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):169–74

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of sodium borocaptate with or without blood-brain barrier disruption. Yang W, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):663–72

Receptor for interleukin (IL) 13 does not interact with IL4 but receptor for IL4 interacts with IL13 on human glioma cells. Debinski W, et al. **J Biol Chem** 1996 Sep 13; 271(37):22428–33

Synthesis and accumulation of alphaB crystallin in C6 glioma cells is induced by agents that promote the disassembly of microtubules. Kato K, et al. **J Biol Chem** 1996 Oct 25; 271(43):26989–94

Induction of vascular endothelial growth factor by tumor necrosis factor alpha in human glioma cells. Possible roles of SP-1. Ryuto M, et al. **J Biol Chem** 1996 Nov 8; 271(45):28220–8

Characterization of a G-protein activator in the neuroblastoma-glioma cell hybrid NG108-15. Sato M, et al. **J Biol Chem** 1996 Nov 22;271(47):30052–60

Distribution of endogenous tumour necrosis factor alpha in gliomas. Maruno M, et al. **J Clin Pathol** 1997 Jul; 50(7):559–62

Modulation of the stress-induced synthesis of hsp27 and alpha B-crystallin by cyclic AMP in C6 rat glioma cells. Kato K, et al. **J Neurochem** 1996 Mar;66(3):946–50

TGF-B2 and soluble p55 TNFR modulate VCAM-1 expression in glioma cells and brain derived endothelial cells. Chen TC, et al. **J Neuroimmunol** 1997 Mar; 73(1-2):155–61

Proton magnetic resonance spectroscopy and intracranial tumours: clinical perspectives. Falini A, et al. **J Neurol** 1996 Oct;243(10):706–14

Deletion of complex gangliosides of human glioma cells during mitotic cell division. Choi BO, et al. **J Neurooncol** 1997 Sep;34(3):211–9

Polyamine metabolism in gliomas. Ernestus RI, et al. **J Neurooncol** 1996 Aug;29(2):167–74

Steroids decrease uptake of carboplatin in rat gliomas--uptake improved by intracarotid infusion of bradykinin analog, RMP-7. Matsukado K, et al. **J Neurooncol** 1997 Sep;34(2):131–8

A strategy for selective anti-cancer drug concentration increase in rat glioma tissue with Ca(2+)-channel blocker co-administration: calcium kinetics in intra-glioma arteriolar smooth muscle cells. Zenke K, et al. **J Neurooncol** 1996 Oct;30(1):25–36

Soluble TNF-alpha receptors are constitutively shed and downregulate adhesion molecule expression in malignant gliomas. Chen TC, et al. **J Neuropathol Exp Neurol** 1997 May;56(5):541–50

Quantitative chromatin pattern description in Feulgen-stained nuclei as a diagnostic tool to characterize the oligodendroglial and astroglial components in mixed oligo-astrocytomas. Decaestecker C, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):391–402

Correlation of endothelin-1 and transforming growth factor beta 1 with malignancy and vascularity in human gliomas. Stiles JD, et al. **J Neuropathol Exp Neurol** 1997 Apr; 56(4):435–9

Cyclic AMP-mediated induction of the glial fibrillary acidic protein is independent of protein kinase A activation in rat C6 glioma. Anciaux K, et al. **J Neurosci Res** 1997 May 15;48(4):324–33

Intracarotid infusion of RMP-7, a bradykinin analog, and transport of gallium-68 ethylenediamine tetraacetic acid into human gliomas. Black KL, et al. **J Neurosurg** 1997 Apr;86(4):603–9

Lack of prognostic relevance of alterations in the epidermal growth factor receptor-transforming growth factor-alpha pathway in human astrocytic gliomas. Waha A, et al. **J Neurosurg** 1996 Oct;85(4):634–41

Urinary epidermal growth factor (EGF) levels and epidermal growth factor receptor (EGF-R) expression in human cerebral tumors. Clinical considerations. Bello L. **J Neurosurg Sci** 1996 Sep-Dec;40(3-4):167–82

Feasibility of imaging pentose cycle glucose metabolism in gliomas with PET: studies in rat brain tumor models. Spence AM, et al. **J Nucl Med** 1997 Apr;38(4):617–24

Scatter factor/hepatocyte growth factor gene transfer enhances glioma growth and angiogenesis in vivo. Laterra J, et al. **Lab Invest** 1997 Apr;76(4):565–77

Differential expression of transthyretin in papillary tumors of the endolymphatic sac and choroid plexus. Megerian CA, et al. **Laryngoscope** 1997 Feb;107(2):216–21

Methionine deprivation and methionine analogs inhibit cell proliferation and growth of human xenografted gliomas. Poirson-Bichat F, et al. **Life Sci** 1997;60(12):919–31

Chronic treatment with antidepressants, verapamil, or lithium inhibits the serotonin-induced intracellular calcium response in individual C6 rat glioma cells. Yamaji T, et al. **Life Sci** 1997;60(11):817–23

Nitric oxide donor SIN-1 mediated down-regulation of the G-protein alpha-subunit in C6 glioma cells. Young LT, et al. **Life Sci** 1997;60(15):1279–85

Altered phospholipid metabolism in sodium butyrate-induced differentiation of C6 glioma cells. Sun SH, et al. **Lipids** 1997 Mar;32(3):273–82

Effect of 6-aminonicotinamide on metabolism of astrocytes and C6-glioma cells. Haghighat N, et al. **Metab Brain Dis** 1996 Mar;12(1):29–45

Myxopapillary ependymomas: a clinicopathologic study of 14 cases including MIB-1 and p53 immunoreactivity. Prayson RA. **Mod Pathol** 1997 Apr;10(4):304–10

Inverse agonist-induced up-regulation of the human beta2-adrenoceptor in transfected neuroblastoma X glioma hybrid cells. MacEwan DJ, et al. **Mol Pharmacol** 1996 Dec; 50(6):1479–86

5-Hydroxytryptamine-evoked [Ca2+]i oscillations in rat C6 glioma cells. Cholewinski AJ, et al. **Neurochem Int** 1996 May-Jun;28(5-6):583–9

Intracellular Ca2+ signals induced by ATP and thapsigargin in glioma C6 cells. Calcium pools sensitive to inositol 1,4,5-trisphosphate and thapsigargin. Sabala P, et al. **Neurochem Int** 1997 Jul;31(1):55–64

Elevated plasma basic fibroblast growth factor in brain tumor patients. Kurimoto M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):865–8; discussion 869

Effects of valproic acid on beta-adrenergic receptors, G-proteins, and adenylyl cyclase in rat C6 glioma cells. Chen G, et al. **Neuropsychopharmacology** 1996 Sep; 15(3):271–80

Sodium butyrate decreases histamine-stimulated calcium mobilization in C6 glioma cells. Ou HC, et al. **Neuroreport** 1997 Apr 14;8(6):1375–8

Role of Gq alpha in insulin-stimulated glucose uptake by C6 glioma cells. Singh SP, et al. **Neuroreport** 1997 Jul 7; 8(9-10):2359–63

Immediate early gene induction by natriuretic peptides in PC12 phaeochromocytoma and C6 glioma cells. Thiriet N, et al. **Neuroreport** 1997 Jan 20;8(2):399–402

Suppressed expression of CD44 variant isoforms during human glioma A172 cell differentiation induced by cyclic AMP. Sakai H, et al. **Neurosci Lett** 1996 Jun 7; 210(3):189–92

Expression of cathepsin D during the progression of human gliomas. Sivaparvathi M, et al. **Neurosci Lett** 1996 Apr 26;208(3):171–4

Reactive oxygen species involved in the glutamate toxicity of C6 glioma cells via xc antiporter system. Mawatari K, et al. **Neuroscience** 1996 Jul;73(1):201–8

Determination of de novo synthesized amino acids in cellular proteins revisited by 13C NMR spectroscopy. Flögel U, et al. **NMR Biomed** 1997 Apr;10(2):50–8

Evaluation of metabolic heterogeneity in brain tumors using 1H-chemical shift imaging method. Furuya S, et al. **NMR Biomed** 1997 Jan;10(1):25–30

Relationships among lactate concentration, blood flow and histopathologic profiles in rat C6 glioma. Terpstra M, et al. **NMR Biomed** 1996 Aug;9(5):185–94

Immunohistochemical and electron microscopic study of subependymal giant cell astrocytoma. Huang MC, et al. **Noshuyo Byori** 1995;12(2):117–23

Chimeric anti-tenascin antibody 81C6: increased tumor localization compared with its murine parent. Zalutsky MR, et al. **Nucl Med Biol** 1996 May;23(4):449–58

Nuclear accumulation of fibroblast growth factor receptors in human glial cells--association with cell proliferation. Stachowiak EK, et al. **Oncogene** 1997 May 8;

14(18):2201–11
The standard isoform of CD44 is preferentially expressed in atypical papillomas and carcinomas of the choroid plexus. Varga Z, et al. **Pathol Res Pract** 1996 Dec; 192(12):1225–31
Characterization of an inward–rectifying potassium current in NG108–15 neuroblastoma x glioma cells. Hu Q, et al. **Pflugers Arch** 1997 Mar;433(5):617–25
Activity of protein kinase C is necessary for sustained thrombin–induced [Ca2+]i oscillations in rat glioma cells. Ubl JJ, et al. **Pflugers Arch** 1997 Jan;433(3):312–20
Effect of citalopram on the desensitization of serotonin–2A receptor–mediated calcium mobilization in rat glioma cells. Kagaya A, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Jan; 20(1):157–66
Lack of voltage–operated calcium channel in rat glioma C6 cells. Imoto K, et al.
Res Commun Mol Pathol Pharmacol 1996 Aug;93(2):249–56
Inhibitory effects of tetrandrine and hernandezine on Ca2+ mobilization in rat glioma C6 cells. Imoto K, et al.
Res Commun Mol Pathol Pharmacol 1997 Feb;95(2):129–46
[Distribution of immunoregulatory carbohydrate lectin receptors on glioma cell membranes and autologus peripheral mononuclears in neuro–oncological patients depending upon the degree of brain tumor anaplasia] Gnedkova IA, et al. **Biull Eksp Biol Med** 1996 Oct; 122(10):441–5 **(Rus)**

MORTALITY

Mortality from primary malignant brain tumors in the Province of Bologna, Italy, 1986–1988. Fiorani L, et al. **Acta Neurol Scand** 1996 May;93(5):355–9
Histologic and morphometric grading of gliomas. A comparative survival analysis. Niedermayer I, et al.
Anal Quant Cytol Histol 1997 Aug;19(4):301–10
Quality–adjusted survival analysis of malignant glioma patients [see comments] Scott CB. **Control Clin Trials** 1997 Aug;18(4):277–85. Comment in: Control Clin Trials 1997 Aug;18(4):306–10. Comment in: Control Clin Trials 1997 Aug;18(4):311–7.
Survival of children with infratentorial neuroglial tumors. The Childhood Brain Tumor Consortium. Sobel EL, et al. **Neurosurgery** 1996 Jul;39(1):45–54; discussion 54–6

PATHOLOGY

Migration of human glioma cells in response to tumour cyst fluids. Giese A, et al. **Acta Neurochir (Wien)** 1996; 138(11):1331–40
Thalamic gliomas: a clinicopathologic analysis of 20 cases with reference to patient age. Nishio S, et al.
Acta Neurochir (Wien) 1997;139(4):336–42
Glial tumourettes (glial microtumours): their clinical and histopathological manifestations. Nishio S, et al.
Acta Neurochir (Wien) 1996;138(7):818–23
Monocyte chemoattractant protein–1 expression and macrophage infiltration in gliomas. Leung SY, et al.
Acta Neuropathol (Berl) 1997 May;93(5):518–27
Immunohistochemical characterization of subependymal giant cell astrocytomas. Lopes MB, et al.
Acta Neuropathol (Berl) 1996;91(4):368–75
Sudden, unexpected death in subjects with undiagnosed gliomas. Lindboe CF, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):271–5
Isovolumetric regulation of C6 rat glioma cells in hyperosmotic media. Mountian I, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C318–23
Histologic and morphometric grading of gliomas. A comparative survival analysis. Niedermayer I, et al.
Anal Quant Cytol Histol 1997 Aug;19(4):301–10
Mechanism of cellular swelling induced by extracellular lactic acidosis in neuroblastoma–glioma hybrid (NG108–15) cells. Alojado ME, et al. **Anesth Analg** 1996 Nov; 83(5):1002–8
Adhesion and migration of human glioma cells are differently dependent on extracellular matrix molecules. Haugland HK, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1035–42
Modulation of glioma cell growth and 5–lipoxygenase expression by interferon. Naidu KA, et al.
Anticancer Res 1996 Nov–Dec;16(6B):3475–82
Hyaluronic acid facilitates glioma cell invasion in vitro. Nakagawa T, et al. **Anticancer Res** 1996 Sep–Oct; 16(5A):2917–22
Cell proliferation and invasion in malignant gliomas. Schiffer D, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):61–9
Localization of aberrant messenger RNA of epidermal growth factor receptor (EGFR) in malignant glioma. Tsugu A, et al. **Anticancer Res** 1997 May–Jun; 17(3C):2225–32
Visual pathway glioma: an erratic tumour with therapeutic dilemmas. Shuper A, et al. **Arch Dis Child** 1997 Mar; 76(3):259–63
Cerebral gliomas. Pathology and biological 'markers'. Collins VP. **Baillieres Clin Neurol** 1996 Jun;5(2):271–93 (112 ref.)
Quality of life and neurobehavioural functioning in patients with malignant gliomas. Weitzner MA, et al.
Baillieres Clin Neurol 1996 Jun;5(2):425–39 (64 ref.)
Expression of the POU transcription factor Brn–5 inhibits proliferation of NG108–15 cells. Cui H, et al.
Biochem Biophys Res Commun 1997 Jul 30;236(3):693–6
Rat C6 glioma cell growth is related to glucose transport and metabolism. Nagamatsu S, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):477–82
Apoptosis induced by selenium in human glioma cell lines. Zhu Z, et al. **Biol Trace Elem Res** 1996 Aug;54(2):123–34
Computerized detection of morphological changes to glioma cells during estramustine and ion–channel blocker perifusion. Behnam–Motlagh P, et al. **Br J Cancer** 1997; 76(3):318–24
Anomalous patterns of nitroimidazole binding adjacent to necrosis in human glioma xenografts: possible role of decreased oxygen consumption. Parliament MB, et al.
Br J Cancer 1997;75(3):311–8
Glossopharyngeal neuralgia associated with vascular compression and choroid plexus papilloma. Greene KA, et al. **Br J Neurosurg** 1995;9(6):809–14
Effects of photodynamic therapy on glioma spheroids. Terzis AJ, et al. **Br J Neurosurg** 1997 Jun;11(3):196–205
Gene therapy for brain tumours [editorial] Whittle IR.
Br J Neurosurg 1995;9(6):717–20
Optic chiasmatic–hypothalamic glioma. Alshail E, et al.
Brain Pathol 1997 Apr;7(2):799–806 (49 ref.)
Signal transduction for proliferation of glioma cells in vitro occurs predominantly through a protein kinase C–mediated pathway. Baltuch GH, et al. **Brain Res** 1996 Feb 26; 710(1–2):143–9
1,25–Dihydroxyvitamin D3 regulates the expression of the low–affinity neurotrophin receptor. Naveilhan P, et al.
Brain Res Mol Brain Res 1996 Sep 5;41(1–2):259–68
GDNF mRNA levels are induced by FGF–2 in rat C6 glioblastoma cells. Suter–Crazzolara C, et al.
Brain Res Mol Brain Res 1996 Sep 5;41(1–2):175–82
The role of the extracellular matrix in neoplastic glial invasion of the nervous system. Pilkington CJ.
Braz J Med Biol Res 1996 Sep;29(9):1159–72
Postirradiated and nonirradiated gliosarcoma: immunophenotypical profile. Ang LC, et al.
Can J Neurol Sci 1996 Nov;23(4):251–6
Mechanisms of glioma invasion: role of matrix–metalloproteinases. Uhm JH, et al.
Can J Neurol Sci 1997 Feb;24(1):3–15 (143 ref.)
Improving diagnostic accuracy and interobserver concordance in the classification and grading of primary gliomas. Coons SW, et al. **Cancer** 1997 Apr 1;79(7):1381–93
Differences between phosphotyrosine accumulation and Neu/ErbB–2 receptor expression in astrocytic proliferative processes. Implications for glial oncogenesis [published erratum appears in Cancer 1997 Feb 1;79(3):633–4] Kristt DA, et al. **Cancer** 1996 Sep 15;78(6):1272–83
Proliferation index as a predictor of prognosis in malignant gliomas of childhood. Pollack IF, et al. **Cancer** 1997 Feb 15;79(4):849–56
Escherichia coli gpt gene sensitizes rat glioma cells to killing by 6–thioxanthine or 6–thioguanine. Tamiya T, et al.
Cancer Gene Ther 1996 May–Jun;3(3):155–62
Molecular and cellular pathology of intrinsic brain tumours. Merzak A, et al. **Cancer Metastasis Rev** 1997 Jun; 16(1–2):155–77 (255 ref.)
TrkA expression decreases the in vivo aggressiveness of C6 glioma cells. Lachyankar MB, et al. **Cancer Res** 1997 Feb 1;57(3):532–6
A mathematical model of glioma growth: the effect of extent of surgical resection. Woodward DE, et al. **Cell Prolif** 1996 Jun;29(6):269–88
Chiasmal gliomas with spontaneous regression: proliferation and apoptosis. Takenchi H, et al. **Childs Nerv Syst** 1997 Apr;13(4):229–33
Persistent hyperplastic primary vitreous in a family with osteoporosis–pseudoglioma syndrome. Steichen–Gersdorf E, et al. **Clin Dysmorphol** 1997 Apr;6(2):171–6
Role of extracellular matrix proteins in regulation of human glioma cell invasion in vitro. Chintala SK, et al.
Clin Exp Metastasis 1996 Sep;14(4):358–66
Fibronectin–mediated cell migration promotes glioma cell invasion through chemokinetic activity. Ohnishi T, et al.
Clin Exp Metastasis 1997 Sep;15(5):538–46
Glioma invasion in vitro: regulation by matrix metalloprotease–2 and protein kinase C. Uhm JH, et al.
Clin Exp Metastasis 1996 Oct;14(5):421–33
Optic nerve glioma mimicking an optic nerve meningioma. Liauw L, et al. **Clin Neurol Neurosurg** 1996 Aug; 98(3):258–61
A clinicopathological study of malignant glioma done after local administration of chemotherapeutic agents. Shimura T, et al. **Clin Neuropathol** 1996 Mar–Apr;15(2):119–24
Tumor cell invasion and angiogenesis in the central nervous system. Bjerkvig R, et al. **Curr Opin Oncol** 1997 May; 9(3):223–9 (68 ref.)
Histopathologic and immunohistochemical prognostic factors in malignant gliomas. Stemmer–Rachamimov AO, et al.
Curr Opin Oncol 1997 May;9(3):230–4 (16 ref.)
Noradrenaline inhibits the programmed cell death induced by 1,25–dihydroxyvitamin D3 in glioma. Canova C, et al.
Eur J Pharmacol 1997 Jan 29;319(2–3):365–8
Tumor cell endocytosis imaging facilitates delineation of the glioma–brain interface. Zimmer C, et al. **Exp Neurol** 1997 Jan;143(1):61–9
Early proliferation enhancement by monosomy 10 and intratumor heterogeneity in malignant human gliomas as revealed by smear preparations from biopsies. Steilen–Gimbel H, et al. **Genes Chromosomes Cancer** 1996 Jul;16(3):180–4
Autocrine transformation by fibroblast growth factor 9 (FGF–9) and its possible participation in human oncogenesis. Matsumoto–Yoshitomi S, et al.
Int J Cancer 1997 May 2;71(3):442–50
Pediatric brain stem gliomas with the predominant symptom of sleep apnea. Ito K, et al.
Int J Pediatr Otorhinolaryngol 1996 Sep;37(1):53–64
The lac–z reporter gene: a tool for in vitro studies of malignant glioma cell invasion. Garcia–Cabrera I, et al.
Invasion Metastasis 1996;16(3):107–15
Tenascin mediates human glioma cell migration and modulates cell migration on fibronectin. Deryugina EI, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):643–52
Prospective study of postoperative magnetic resonance imaging in patients with malignant gliomas. Forsyth PA, et al. **J Clin Oncol** 1997 May;15(5):2076–81
Proliferative potentials of glioma cells and vascular components determined with monoclonal antibody MIB–1. Di X, et al. **J Exp Clin Cancer Res** 1997 Jun;16(2):153–7
Papillary ependymoma: its differential diagnosis from choroid plexus papilloma. Park SH, et al. **J Korean Med Sci** 1996 Oct;11(5):415–21
Modulation of melphalan resistance in glioma cells with a peripheral benzodiazepine receptor ligand–melphalan conjugate. Kupczyk–Subotkowska L, et al.
J Med Chem 1997 May 23;40(11):1726–30
Cyclosporin A, an immunosuppressive drug, induces programmed cell death in rat C6 glioma cells by a mechanism that involves the AP–1 transcription factor. Mosieniak G, et al. **J Neurochem** 1997 Mar;68(3):1142–9
Low–grade gliomas of chronic epilepsy: a distinct clinical and pathological entity. Bartolomei JC, et al.
J Neurooncol 1997 Aug;34(1):79–84
Low grade gliomas: functional mapping resection strategies, extent of resection, and outcome. Berger MS, et al.
J Neurooncol 1997 Aug;34(1):85–101 (80 ref.)
Gliomatosis cerebri mimicking a metastatic breast cancer: fatal outcome. Iglesias A, et al. **J Neurooncol** 1997 Apr; 32(2):175–8
Oligoastrocytomas: a clinicopathological study of 52 cases. Krouwer HG, et al. **J Neurooncol** 1997 Jul;33(3):223–38
Glial ontogeny and glial neoplasia: the search for closure. Linskey ME. **J Neurooncol** 1997 Aug;34(1):5–22 (136 ref.)
Assessment of laminin–mediated glioma invasion in vitro and by glioma tumors engrafted within rat spinal cord. Muir D, et al. **J Neurooncol** 1996 Dec;30(3):199–211
Low–grade gliomas: introduction and overview. Piepmeier JM, et al. **J Neurooncol** 1997 Aug;34(1):1–3 (26 ref.)
The effect of calphostin C, a potent photodependent protein kinase C inhibitor, on the proliferation of glioma cells in vitro. Pollack IF, et al. **J Neurooncol** 1997 Feb;31(3):255–66
The interaction of growth rates and diffusion coefficients in a three–dimensional mathematical model of gliomas. Burgess PK, et al. **J Neuropathol Exp Neurol** 1997 Jun; 56(6):704–13
Quantitative chromatin pattern description in Feulgen–stained nuclei as a diagnostic tool to characterize the oligodendroglial and astroglial components in mixed oligo–astrocytomas. Decaestecker C, et al.
J Neuropathol Exp Neurol 1997 Apr;56(4):391–402
Use of MIB–1 (Ki–67) immunoreactivity in differentiating grade II and grade III gliomas. Hsu DW, et al.
J Neuropathol Exp Neurol 1997 Aug;56(8):857–65
Adenovirus–mediated wild–type p53 gene transfer and overexpression induces apoptosis of human glioma cells independent of endogenous p53 status. Li H, et al.
J Neuropathol Exp Neurol 1997 Aug;56(8):872–8
A comparison of the predictive power for survival in gliomas provided by MIB–1, bromodeoxyuridine and proliferating cell nuclear antigen with histopathologic and clinical parameters. McKeever PE, et al.
J Neuropathol Exp Neurol 1997 Jul;56(7):798–805
Analysis of p53 mutation and epidermal growth factor receptor amplification in recurrent gliomas with malignant progression. Reifenberger J, et al.
J Neuropathol Exp Neurol 1996 Jul;55(7):822–31
1,25–Dihydroxyvitamin D3 induces programmed cell death in a rat glioma cell line. Baudet C, et al.
J Neurosci Res 1996 Dec 1;46(5):540–50
Apoptosis of human glioma cells in vitro and in vivo induced by a neutralizing antibody against human basic fibroblast growth factor. Murai N, et al. **J Neurosurg** 1996 Dec; 85(6):1072–7
Role of glial filaments in cells and tumors of glial origin: a review. Rutka JT, et al. **J Neurosurg** 1997 Sep; 87(3):420–30 (122 ref.)
Isolation and characterization of human malignant glioma cells from histologically normal brain [see comments] Silbergeld DL, et al. **J Neurosurg** 1997 Mar;86(3):525–31 . Comment in: J Neurosurg 1997 Sep;87(3):484–5.
Increased choline signal coinciding with malignant degeneration of cerebral gliomas: a serial proton magnetic resonance spectroscopy imaging study. Tedeschi G, et al.
J Neurosurg 1997 Oct;87(4):516–24
Modulation of motility and proliferation of glioma cells by hepatocyte growth factor. Yamamoto S, et al.
Jpn J Cancer Res 1997 Jun;88(6):564–77
Interferon–gamma inhibits proliferation and adhesion of T98G human malignant glioma cells in vitro. Knüpfer MM, et al. **Klin Padiatr** 1997 Jul–Aug;209(4):271–4
Diffuse brain invasion of glioma cells requires beta 1 integrins. Paulus W, et al. **Lab Invest** 1996 Dec;75(6):819–26
Gliomatosis peritonei with malignant transformation.

Dadmanesh F, et al. **Mod Pathol** 1997 Jun;10(6):597–601

In vitro and in vivo gene delivery mediated by a synthetic polycationic amino polymer. Goldman CK, et al. **Nat Biotechnol** 1997 May;15(5):462–6

Exophytic intraspinal extension of cerebellar glioma—case report. Kuroiwa T, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):590–2

Intraparenchymal metastatic tumor with periventricular dissemination—case report. Liu RY, et al. **Neurol Med Chir (Tokyo)** 1997 Jan;37(1):55–8

Cerebellar gliomas with exophytic growth—three case reports. Yamamoto M, et al. **Neurol Med Chir (Tokyo)** 1997 May;37(5):411–5

Experimental and clinical study of detection of glioma at surgery using fluorescent imaging by a surgical microscope after fluorescein administration. Kabuto M, et al. **Neurol Res** 1997 Feb;19(1):9–16

Effect of histamine and the H2 antagonist cimetidine on the growth and migration of human neoplastic glia [published erratum appears in Neuropathol Appl Neurobiol 1996 Dec;22(6):559] Finn PE, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):317–24

Cryopreservation of organotypic multicellular spheroids from human gliomas. Kaaijk P, et al. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):548–52

Role of high molecular weight extracellular matrix proteins in glioma cell migration. Mahesparan R, et al. **Neuropathol Appl Neurobiol** 1997 Apr;23(2):102–12

Trypsin promotes C6 glioma cell proliferation in serum- and growth factor-free medium. Amano H, et al. **Neurosci Res** 1996 Jul;25(3):203–8

Malignant chiasmal glioma: a rare cause of rapid visual loss. Valdueza JM, et al. **Neurosurg Rev** 1995;18(4):273–5

Glioma invasion in the central nervous system. Giese A, et al. **Neurosurgery** 1996 Aug;39(2):235–50; discussion 250–2 (174 ref.)

Enhanced optical imaging of human gliomas and tumor margins. Haglund MM, et al. **Neurosurgery** 1996 Feb; 38(2):308–17 (58 ref.)

Effects of basic fibroblast growth factor on in vivo cerebral tumorigenesis in rats. Segal DH, et al. **Neurosurgery** 1997 May;40(5):1027–33

Morphological features of gliomas in children. Hirato J, et al. **Noshuyo Byori** 1996 Apr;13(1):37–47

Clinicopathological study of choroid plexus tumors: immunohistochemical features and evaluation of proliferative potential by PCNA and Ki-67 immunostaining. Kato T, et al. **Noshuyo Byori** 1996 Nov; 13(2):99–105

Repeating hemorrhage with a long duration after radiotherapy for glioma: radiological and histological observations. Kawano H, et al. **Noshuyo Byori** 1996 Apr; 13(1):85–92

Correlation of histopathological factor of brain tumor and high thallium-201 uptake in single photon emission computed tomography. Yoshii Y, et al. **Noshuyo Byori** 1996 Apr;13(1):61–5

Characterization of genomic alterations associated with glioma progression by comparative genomic hybridization. Weber RG, et al. **Oncogene** 1996 Sep 5;13(5):983–94

Suppression of the malignant phenotype of human glioma cells by overexpression of manganese superoxide dismutase. Zhong W, et al. **Oncogene** 1997 Jan 30;14(4):481–90

The effects of altered cellular calmodulin expression on the growth and viability of C6 glioblastoma cells. Prostko CR, et al. **Oncol Res** 1997;9(1):13–7

Bone formation within a choroid plexus papilloma. Doran SE, et al. **Pediatr Neurosurg** 1995;23(4):216–8 (18 ref.)

Brainstem gliomas in children. A Children's Cancer Group review of 119 cases. Kaplan AM, et al. **Pediatr Neurosurg** 1996;24(4):185–92

Quantitative histologic factors for grouping childhood infratentorial neuroglial tumors. Gilles FH, et al. **Pediatr Pathol Lab Med** 1997 Sep–Oct;17(5):809–34

Quantitative histologic factors for grouping childhood supratentorial neuroglial tumors. Gilles FH, et al. **Pediatr Pathol Lab Med** 1997 Sep–Oct;17(5):729–54

Ki-67 as a marker of proliferation activity in tumor progression of recurrent gliomas of supratentorial localization. Immunocytochemical quantitative studies. Kałuża J, et al. **Pol J Pathol** 1997;48(1):31–6

The risk of interstitial radiotherapy of low-grade gliomas. Kreth FW, et al. **Radiother Oncol** 1997 Jun;43(3):253–60

Ultrastructural pathology of glial brain tumors revisited: a review. Liberski PP, et al. **Ultrastruct Pathol** 1997 Jan–Feb; 21(1):1–31 (94 ref.)

[Histopathological and autoradiographical studies of experimental brain tumors after continuous local chemotherapy--acute stage in rat models] Shimura T, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):713–8 (Eng. Abstr.) **(Jpn)**

[Study on potentiation of nitrosourea-cytotoxicity by DNA repair enzyme inhibitors in human brain tumor cells] Fukuchi M, et al. **No To Shinkei** 1997 Jun;49(6):521–8 (Eng. Abstr.) **(Jpn)**

[Experimental study of detection of brain tumor at surgery using fluorescent imaging under a surgical microscope after fluorescein administration] Kabuto M, et al. **No To Shinkei** 1997 Mar;49(3):261–5 (Eng. Abstr.) **(Jpn)**

[Up-regulation of NGF, trkA, Fas, down-regulation of bcl-2, and induction of apoptosis by propentofylline in human glioma cell lines] Kamada H, et al. **No To Shinkei** 1996 Nov;48(11):1022–8 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

The effects of malignant glioma on the EEG and seizure thresholds: an experimental study. Beaumont A, et al. **Acta Neurochir (Wien)** 1996;138(4):370–81

Electrolyte transport mechanisms involved in regulatory volume increase in C6 glioma cells. Mountian I, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1041–8

Dissecting the individuality of cancer cells: the morphological and molecular dynamics of single human glioma cells. Giuliano KA. **Cell Motil Cytoskeleton** 1996; 35(3):237–53

A central segment of the NG2 proteoglycan is critical for the ability of glioma cells to bind and migrate toward type VI collagen. Burg MA, et al. **Exp Cell Res** 1997 Aug 25; 235(1):254–64

Mechanotransducing ion channels in C6 glioma cells. Bowman CL, et al. **Glia** 1996 Nov;18(3):161–76

Stimulation of glioma-cell migration by laminin and inhibition by anti-alpha3 and anti-beta1 integrin antibodies. Tysnes BB, et al. **Int J Cancer** 1996 Sep 17;67(6):777–84

A local hyperthermia treatment which enhances antibody uptake in a glioma xenograft model does not affect tumour interstitial fluid pressure. Hauck ML, et al. **Int J Hyperthermia** 1997 May–Jun;13(3):307–16

Glial ontogeny and glial neoplasia: the search for closure. Linskey ME. **J Neurooncol** 1997 Aug;34(1):5–22 (136 ref.)

Effect of neurological dysfunction on health-related quality of life in patients with high-grade glioma. Osoba D, et al. **J Neurooncol** 1997 Sep;34(3):263–78

Neuromagnetic evaluation of cortical auditory function in patients with temporal lobe tumors. Nakasato N, et al. **J Neurosurg** 1997 Apr;86(4):610–8

Role of glial filaments in cells and tumors of glial origin: a review. Rutka JT, et al. **J Neurosurg** 1997 Sep; 87(3):420–30 (122 ref.)

Quantification and pharmacokinetics of blood-brain barrier disruption in humans. Zünkeler B, et al. **J Neurosurg** 1996 Dec;85(6):1056–65

Modulation of motility and proliferation of glioma cells by hepatocyte growth factor. Yamamoto S, et al. **Jpn J Cancer Res** 1997 Jun;88(6):564–77

Short-latency somatosensory evoked potentials in patients with brain stem tumor: study of N20 and N18 potentials. Fukuda M, et al. **Neurol Med Chir (Tokyo)** 1997 Jul; 37(7):525–31; discussion 531–2

Progressive focal neurological dysfunction following experimental implantation glioma. Whittle IR, et al. **Neuroreport** 1997 Mar 24;8(5):1149–53

Functional magnetic resonance imaging of regional brain activity in patients with intracerebral gliomas: findings and implications for clinical management. Atlas SW, et al. **Neurosurgery** 1996 Feb;38(2):329–38

The in vivo metabolic pattern of low-grade brain gliomas: a positron emission tomographic study using 18F-fluorodeoxyglucose and 11C-L-methylmethionine. Derlon JM, et al. **Neurosurgery** 1997 Feb;40(2):276–87; discussion 287–8

Perpetual motion and glioma growth. Kornblith PL. **Surg Neurol** 1997 Mar;47(3):282–3 (7 ref.)

[Auditory evoked magnetic fields in cases with temporal lobe glioma] Kanno A, et al. **No Shinkei Geka** 1996 Oct; 24(10):921–5 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

The decrement of carcinogenesis by dietary selenium and expression of placental form of glutathione-S-transferase in rat glioma. Zhang Z, et al. **Biol Trace Elem Res** 1997 May;57(2):147–55

PSYCHOLOGY

Malignant cerebral glioma. Patients' awareness of prognosis may be confounded by successful coping mechanisms [letter; comment] Salander P, et al. **BMJ** 1997 Mar 22; 314(7084):900. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.

Posterior fossa lesions associated with neuropsychiatric symptomatology. Pollak L, et al. **Int J Neurosci** 1996 Nov; 87(3–4):119–26

Third ventricular choroid plexus papilloma with psychosis. Case report. Carson BS, et al. **J Neurosurg** 1997 Jul; 87(1):103–5

Neuropsychometric evaluation of long-term survivors of adult brain tumours: relationship with tumour and treatment parameters. Gregor A, et al. **Radiother Oncol** 1996 Oct;41(1):55–9

RADIOGRAPHY

Histological heterogeneity of neuroradiologically suspected adult low grade gliomas detected by Xenon enhanced computerized tomography (CT). Roessler K, et al. **Acta Neurochir (Wien)** 1996;138(11):1341–7

Radiological case of the month. Choroid plexus papilloma. Arumugam R, et al. **Arch Pediatr Adolesc Med** 1997 Jan; 151(1):91–2

Histological surprise: callosal tuberculoma presenting as malignant glioma. Fath-Ordoubadi F, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):98–9

Preoperative and postoperative follow-up in high-grade gliomas: comparison of transcranial color-coded real-time sonography and computed tomography findings. Becker G, et al. **Ultrasound Med Biol** 1995;21(9):1123–35

RADIONUCLIDE IMAGING

Radiolabeling of epidermal growth factor with 99mTc and in vivo localization following intracerebral injection into normal and glioma-bearing rats. Capala J, et al. **Bioconjug Chem** 1997 May–Jun;8(3):289–9[illegible]

18-Fluorodeoxyglucose uptake and survival [illegible] patients with suspected recurrent malignant glioma. Barker FG 2nd, et al. **Cancer** 1997 Jan 1;79(1):115–26

Impact of fluorodeoxyglucose positron emission tomography on the clinical management of patients with glioma. Deshmukh A, et al. **Clin Nucl Med** 1996 Sep;21(9):720–5

Uptake of iodine-123-alpha-methyl tyrosine by gliomas and non-neoplastic brain lesions. Kuwert T, et al. **Eur J Nucl Med** 1996 Oct;23(10):1345–53

Indications for differential diagnosis of nontumor central nervous system diseases from tumors. A positron emission tomography study. Mineura K, et al. **J Neuroimaging** 1997 Jan;7(1):8–15

Regional methionine and glucose uptake in high-grade gliomas: a comparative study on PET-guided stereotactic biopsy. Goldman S, et al. **J Nucl Med** 1997 Sep; 38(9):1459–62

F-Dopa as an amino acid tracer to detect brain tumors. Heiss WD, et al. **J Nucl Med** 1996 Jul;37(7):1180–2

3-[123I]iodo-alpha-methyltyrosine and [methyl-11C]-L-methionine uptake in cerebral gliomas: a comparative study using SPECT and PET. Langen KJ, et al. **J Nucl Med** 1997 Apr;38(4):517–22

Independent thallium-201 accumulation and fluorine-18-fluorodeoxyglucose metabolism in glioma. Oriuchi N, et al. **J Nucl Med** 1996 Mar;37(3):457–62

The in vivo metabolic pattern of low-grade brain gliomas: a positron emission tomographic study using 18F-fluorodeoxyglucose and 11C-L-methylmethionine. Derlon JM, et al. **Neurosurgery** 1997 Feb;40(2):276–87; discussion 287–8

Prognostic value positron emission tomography with [18F]fluoro-2-deoxy-D-glucose in the low-grade glioma. De Witte O, et al. **Neurosurgery** 1996 Sep;39(3):470–6; discussion 476–7

Radioimaging of human glioma by indium-111 labeled G-22 anti-glioma monoclonal antibody. Wakabayashi T, et al. **Noshuyo Byori** 1995;12(2):105–10

Correlation of histopathological factor of brain tumor and high thallium-201 uptake in single photon emission computed tomography. Yoshii Y, et al. **Noshuyo Byori** 1996 Apr;13(1):61–5

Tissue distribution and radiation dosimetry of astatine-211-labeled chimeric 81C6, an alpha-particle-emitting immunoconjugate. Zalutsky MR, et al. **Nucl Med Biol** 1997 Apr;24(3):255–61

Liposomal distribution in malignant glioma: possibilities for therapy. Khalifa A, et al. **Nucl Med Commun** 1997 Jan; 18(1):17–23

Influence of size of regions of interest on the measurement of uptake of 123I-alpha-methyl tyrosine by brain tumours. Kuwert T, et al. **Nucl Med Commun** 1996 Jul;17(7):609–15

[Histological prediction of cerebral tumors using SPECT with 201T1] Prat-Acín R, et al. **Rev Neurol** 1997 Aug; 25(144):1168–70 (Eng. Abstr.) **(Spa)**

RADIOTHERAPY

Pharmacokinetics of Na2B12H11SH (BSH) in patients with malignant brain tumours as prerequisite for a phase I clinical trial of boron neutron capture. Gabel D, et al. **Acta Neurochir (Wien)** 1997;139(7):606–11; discussion 611–2

Supratentorial low-grade glioma: is there a role for radiation therapy? Trautmann TG, et al. **Ann Acad Med Singapore** 1996 May;25(3):392–6 (36 ref.)

External beam radiation enhances antibody mediated radiocytotoxicity in human glioma cells in vitro. Bender H, et al. **Anticancer Res** 1997 May–Jun;17(3B):1797–802

Cisplatin induces radioprotection in human T98G glioma cells. Poppenborg H, et al. **Anticancer Res** 1997 Mar–Apr; 17(2A):1131–4

Radiation therapy in the management of malignant gliomas. Brada M, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):319–43 (129 ref.)

Malignant cerebral glioma. Modern radiotherapy can give good quality survival for six months [letter; comment] Brada M, et al. **BMJ** 1997 Mar 22;314(7084):899. Comment on: BMJ 1996 Dec 14;313(7071):1507–12.

Malignant cerebral glioma. Modern radiotherapy techniques are needed to spare normal brain tissue [letter; comment] Burnet NG, et al. **BMJ** 1997 Mar 22;314(7084):900–1. Comment on: BMJ 1996 Dec 14;313(7071):1507–12. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.

Malignant cerebral glioma. A relative's perspective [letter; comment] Chappell J. **BMJ** 1997 Mar 22; 314(7084):899–900; discussion 901. Comment on: BMJ 1996 Dec 14;313(7071):1507–12. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.

Malignant cerebral glioma--II: Perspectives of patients and relatives on the value of radiotherapy [see comments] Davies E, et al. **BMJ** 1996 Dec 14;313(7071):1512–6. Comment in: BMJ 1996 Dec 14;313(7071):1500–1.

Comment in: BMJ 1997 Mar 22;314(7084):899; discussion 901. Comment in: BMJ 1997 Mar 22;314(7084):899–900; discussion 901. Comment in: BMJ 1997 Mar 22;314(7084):900. Comment in: BMJ 1997 Mar 22;314(7084):900–1.

Malignant cerebral glioma—I: Survival, disability, and morbidity after radiotherapy [see comments] Davies E, et al. **BMJ** 1996 Dec 14;313(7071):1507–12. Comment in: BMJ 1996 Dec 14;313(7071):1500–1. Comment in: BMJ 1997 Mar 22;314(7084):899. Comment in: BMJ 1997 Mar 22;314(7084):899–900; discussion 901. Comment in: BMJ 1997 Mar 22;314(7084):900–1.

Radiotherapy for malignant glioma [editorial; comment] Gregor A, et al. **BMJ** 1996 Dec 14;313(7071):1500–1. Comment on: BMJ 1996 Dec 14;313(7071):1507–12. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.

Gliomatosis cerebri. Results with radiation therapy. Cozad SC, et al. **Cancer** 1996 Oct 15;78(8):1789–93

Boron neutron capture therapy of brain tumors: enhanced survival following intracarotid injection of either sodium borocaptate or boronophenylalanine with or without blood–brain barrier disruption. Barth RF, et al. **Cancer Res** 1997 Mar 15;57(6):1129–36

A short fractionation radiotherapy treatment for poor prognosis patients with high grade glioma. Ford JM, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):20–4

Radiotherapy and chemotherapy for gliomas. Delattre JY, et al. **Curr Opin Oncol** 1996 May;8(3):196–203 (76 ref.)

Multivariate analysis of prognostic factors in 106 patients with malignant glioma. Salminen E, et al. **Eur J Cancer** 1996 Oct;32A(11):1918–23

Clinical study of glioma treated with HDR Ir–192 interstitial brachytherapy and surgical resection. Ying S, et al. **Front Radiat Ther Oncol** 1997;31:92

Cytotoxicity of alpha–particle–emitting 5–[211At]astato–2'–deoxyuridine in human cancer cells. Larsen RH, et al. **Int J Radiat Biol** 1997 Jul;72(1):79–90

Modelling of continuous low dose rate and accelerated fractionated high dose rate irradiation treatments in a human glioma cell line. Shahine BH, et al. **Int J Radiat Biol** 1996 Nov;70(5):555–61

A randomized trial on dose–response in radiation therapy of low–grade cerebral glioma: European Organization for Research and Treatment of Cancer (EORTC) Study 22844. Karim AB, et al. **Int J Radiat Oncol Biol Phys** 1996 Oct 1;36(3):549–56

Short course radiotherapy is an appropriate option for most malignant glioma patients. Kleinberg L, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1;38(1):31–6

Boron neutron capture therapy (BNCT) for high–grade gliomas of the brain: a cautionary note [see comments] Laramore GE, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):241–6. Comment in: Int J Radiat Oncol Biol Phys 1996 Aug 1;36(1):267–8.

UKCCSG study of accelerated radiotherapy for pediatric brain stem gliomas. United Kingdom Childhood Cancer Study Group. Lewis J, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):925–9

Hyperfractionated radiotherapy of human tumors: overview of the randomized clinical trials. Stuschke M, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):259–67

Intravascular oxygen distribution in subcutaneous 9L tumors and radiation sensitivity. Cerniglia GJ, et al. **J Appl Physiol** 1997 Jun;82(6):1939–45

Supratentorial low–grade glioma in adults: an analysis of prognostic factors and timing of radiation [see comments] Leighton C, et al. **J Clin Oncol** 1997 Apr;15(4):1294–301 . Comment in: J Clin Oncol 1997 Apr;15(4):1289–90.

Low–grade glioma—the Europeans are winning! [letter; comment] Leighton C, et al. **J Clin Oncol** 1997 Jul; 15(7):2761. Comment on: J Clin Oncol 1997 Apr;15(4):1289–90.

Looking through the retrospectoscope in the era of evidence–based medicine [editorial; comment] [see comments] Shaw E. **J Clin Oncol** 1997 Apr;15(4):1289–90 . Comment on: J Clin Oncol 1997 Apr;15(4):1294–301. Comment in: J Clin Oncol 1997 Jul;15(7):2761.

Remotely controllable temporary afterloading brachytherapy for malignant brain tumors. Chiou TS. **J Formos Med Assoc** 1997 Jun;96(6):465–8

Boron neutron capture therapy of brain tumors—current status and future prospects. Barth RF, et al. **J Neurooncol** 1997 May;33(1–2):3–7

Boron neutron capture enhanced fast neutron radiotherapy for malignant gliomas and other tumors. Buchholz TA, et al. **J Neurooncol** 1997 May;33(1–2):171–8 (22 ref.)

A prospective study of short course radiotherapy in elderly patients with malignant glioma. Hoegler DB, et al. **J Neurooncol** 1997 Jul;33(3):201–4

Pharmacokinetics and boron uptake of BSH (Na2B12H11SH) in patients with intracranial tumors. Kageji T, et al. **J Neurooncol** 1997 May;33(1–2):117–30

Early vs. delayed radiotherapy in a small cohort of patients with supratentorial low grade glioma. Knisely JP, et al. **J Neurooncol** 1997 Aug;34(1):23–9

Boron neutron capture therapy. Clinical brain tumor studies. Nakagawa Y, et al. **J Neurooncol** 1997 May;33(1–2):105–15

Binding and distribution of Na2B12H11SH on cellular and subcellular level in tumor tissue of glioma patients in boron neutron capture therapy. Otersen B, et al. **J Neurooncol** 1997 May;33(1–2):131–9

Effect of irradiation on transforming growth factor–beta secretion by malignant glioma cells. Satoh E, et al. **J Neurooncol** 1997 Jul;33(3):195–200

Early history of development of boron neutron capture therapy of tumors. Sweet WH. **J Neurooncol** 1997 May; 33(1–2):19–26 (42 ref.)

Recent trends in the radiotherapy of pediatric gliomas. Tarbell NJ, et al. **J Neurooncol** 1996 May–Jun; 28(2–3):233–44 (47 ref.)

Implantable biodegradable polymers for IUdR radiosensitization of experimental human malignant glioma. Williams JA, et al. **J Neurooncol** 1997 May;32(3):181–92

Enhanced survival of glioma bearing rats following boron neutron capture therapy with blood–brain barrier disruption and intracarotid injection of boronophenylalanine. Yang W, et al. **J Neurooncol** 1997 May;33(1–2):59–70

Increased radiosensitivity of p16 gene–deleted human glioma cells after transfection with wild–type p16 gene. Miyakoshi J, et al. **Jpn J Cancer Res** 1997 Jan;88(1):34–8

Comparison of accelerated hyperfractionated radiotherapy and conventional radiotherapy for supratentorial malignant glioma. Shibamoto Y, et al. **Jpn J Clin Oncol** 1997 Feb; 27(1):31–6

Phase II study of DTIC, ACNU, and vincristine combination chemotherapy for supratentorial malignant astrocytomas. Ikeda J, et al. **Neurol Med Chir (Tokyo)** 1996 Aug; 36(8):555–8; discussion 558–9

Malignant supratentorial glioma in the elderly: is radiotherapy useful? Meckling S, et al. **Neurology** 1996 Oct; 47(4):901–5

A model for experimental interstitial radiotherapy using intracerebral D–54MG glioma xenografts in athymic mice. Lippitz BE. **Neurosurg Rev** 1995;18(4):259–64

Enhanced delivery of boronophenylalanine for neutron capture therapy by means of intracarotid injection and blood–brain barrier disruption. Yang W, et al. **Neurosurgery** 1996 May;38(5):985–92

Repeating hemorrhage with a long duration after radiotherapy for glioma: radiological and histological observations. Kawano H, et al. **Noshuyo Byori** 1996 Apr; 13(1):85–92

Tumor necrosis factor–alpha enhances antitumor effects of radiation against glioma xenografts. Gridley DS, et al. **Oncol Res** 1997;9(5):217–27

Brain stem gliomas: therapeutic options at time of recurrence. Packer RJ. **Pediatr Neurosurg** 1996;24(4):211–6 (21 ref.)

Long–term follow–up after high–activity 125I brachytherapy for pediatric brain tumors. Sneed PK, et al. **Pediatr Neurosurg** 1996 Jun;24(6):314–22

Hyperfractionated and accelerated radiation therapy in central nervous system tumors (malignant gliomas, pediatric tumors, and brain metastases). Fallai C, et al. **Radiother Oncol** 1997 Jun;43(3):235–46 (93 ref.)

Neuropsychometric evaluation of long–term survivors of adult brain tumours: relationship with tumour and treatment parameters. Gregor A, et al. **Radiother Oncol** 1996 Oct;41(1):55–9

The risk of interstitial radiotherapy of low–grade gliomas. Kreth FW, et al. **Radiother Oncol** 1997 Jun;43(3):253–60

Accelerated radiotherapy with carbogen and nicotinamide (ARCON) in high grade malignant gliomas [letter; comment] Lambin P, et al. **Radiother Oncol** 1997 Jun; 43(3):324. Comment on: Radiother Oncol 1996 Sep;40(3):245–7.

Interstitial brachytherapy procedures for brain tumors. Sneed PK, et al. **Semin Surg Oncol** 1997 May–Jun;13(3):157–66 (50 ref.)

Prognostic factors and results of radiation therapy in optic pathway tumors. Regueiro CA, et al. **Tumori** 1996 Jul–Aug; 82(4):353–9

[Iridium 192 brachytherapy of supra–tentorial high grade glioma recurring in irradiated areas: technique and preliminary results of the Pitié–Salpêtrière hospital group] Boisserie G, et al. **Bull Cancer Radiother** 1996;83(3):144–52 (20 ref.) (Eng. Abstr.) **(Fre)**

REHABILITATION

Verbally administered Barthel Index as functional assessment in brain tumour patients. Brazil L, et al. **J Neurooncol** 1997 Sep;34(2):187–92

SECONDARY

ECM dependent and integrin mediated tumor cell migration of human glioma and melanoma cell lines under serum–free conditions. Goldbrunner RH, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3679–87

Spinal metastases of cerebral glioma. Case report. Koch D. **Neurosurg Rev** 1996;19(3):201–3

Critical commentary to "gliomatosis peritonei combined with mature ovarian teratoma" [comment] Bässler R. **Pathol Res Pract** 1995 Oct;191(10):1036. Comment on: Pathol Res Pract 1995 oct;191(10):1029–35.

Critical commentary to "gliomatosis peritonei combined with mature ovarian teratoma" [comment] Dallenbach–Hellweg G. **Pathol Res Pract** 1995 Oct;191(10):1037. Comment on: Pathol Res Pract 1995 Oct;191(10):1029–35.

Gliomatosis peritonei combined with mature ovarian teratoma: immunohistochemical observations [see comments] Gocht A, et al. **Pathol Res Pract** 1995 Oct; 191(10):1029–35. Comment in: Pathol Res Pract 1995 Oct;191(10):1036. Comment in: Pathol Res Pract 1995 Oct;191(10):1037.

Pontine glioma with osteoblastic skeletal metastases in a child. Yanagawa Y, et al. **Surg Neurol** 1996 Nov; 46(5):481–4 (15 ref.)

[Intracranial dissemination of intramedullary malignant glioma. Report of a pediatric case] Orejón de Luna G, et al. **An Esp Pediatr** 1996 Sep;45(3):293–5 (23 ref.) **(Spa)**

SECRETION

Modulation of transforming growth factor–beta secretion from malignant glioma cells by interleukin–1 beta. Naganuma H, et al. **Neurol Med Chir (Tokyo)** 1996 Mar; 36(3):145–50

Enzyme immunoassay of glioma cell tenascin secretion and augmentation by tumor necrosis factor–alpha. Wakabayashi T, et al. **Neurol Med Chir (Tokyo)** 1997 May;37(5):392–7; discussion 397–8

SURGERY

Low grade glioma in intractable epilepsy: lesionectomy versus epilepsy surgery. Lombardi D, et al. **Acta Neurochir Suppl (Wien)** 1997;68:70–4

Choroid plexus papillomas: consideration of a surgical series of 33 cases. Tacconi L, et al. **Acta Neurochir (Wien)** 1996; 138(7):802–10

Correlation of intra–operative ultrasound with histopathologic findings after tumour resection in supratentorial gliomas. A method to improve gross total tumour resection. Woydt M, et al. **Acta Neurochir (Wien)** 1996;138(12):1391–8

Radical surgery in the management of low–grade and high–grade gliomas. Rostomily RC, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):345–69 (84 ref.)

A mathematical model of glioma growth: the effect of extent of surgical resection. Woodward DE, et al. **Cell Prolif** 1996 Jun;29(6):269–88

Cerebellar mutism: report of two unusual cases and review of the literature. Erşahin Y, et al. **Clin Neurol Neurosurg** 1997 May;99(2):130–4 (27 ref.)

Radiosurgery for glioma patients: hope or hype? [editorial; comment] Curran WJ Jr, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1279–80. Comment on: Int J Radiat Oncol Biol Phys 1996 Dec 1;36(5):1045–53.

Gamma knife for glioma: selection factors and survival [see comments] Larson DA, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):1045–53. Comment in: Int J Radiat Oncol Biol Phys 1996 Dec 1;36(5):1279–80.

Hypofractionated stereotactic radiotherapy in the management of recurrent glioma. Shepherd SF, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):393–8

The impact of technical adjuncts in the surgical management of cerebral hemispheric low–grade gliomas of childhood. Berger MS. **J Neurooncol** 1996 May–Jun;28(2–3):129–55 (163 ref.)

Low grade gliomas: functional mapping resection strategies, extent of resection, and outcome. Berger MS, et al. **J Neurooncol** 1997 Aug;34(1):85–101 (80 ref.)

Surgical indication and technical considerations in the management of benign brain stem gliomas. Constantini S, et al. **J Neurooncol** 1996 May–Jun;28(2–3):193–205 (77 ref.)

Surgical treatment of glial tumours of genus corpus callosum and medial parts of frontal lobes. Kachkov IA, et al. **J Neurosurg Sci** 1997 Mar;41(1):113–5

Experimental and clinical study of detection of glioma at surgery using fluorescent imaging by a surgical microscope after fluorescein administration. Kabuto M, et al. **Neurol Res** 1997 Feb;19(1):9–16

Choroid plexus papilloma in the posterior third ventricle: case report. Nakano I, et al. **Neurosurgery** 1997 Jun; 40(6):1279–82

The interactive use of magnetoencephalography in stereotactic image–guided neurosurgery. Rezai AR, et al. **Neurosurgery** 1996 Jul;39(1):92–102

Practical decisions in the treatment of pediatric brain stem tumors. Epstein F, et al. **Pediatr Neurosurg** 1996; 24(1):24–34 (77 ref.)

Contrast–enhanced magnetization transfer imaging: improvement of brain tumor conspicuity and delineation for radiosurgical target volume definition. Hawighorst H, et al. **Radiother Oncol** 1997 Jun;43(3):261–7

Pathobiology of cerebral gliomas in children and the role of radiosurgery. Inoue HK, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:278–87

A straightforward implantation method of radioactive sources by means of the Leksell frame. Koken PW, et al. **Stereotact Funct Neurosurg** 1995;64(4):202–13

Two cases of Gamma Knife radiosurgery for low–grade optic chiasm glioma. Lim YJ, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:174–83

Reoperation for recurrent malignant gliomas: what are your indications? Kelly PJ, et al. **Surg Neurol** 1997 Jan; 47(1):39–42

[Surgical treatment of chiasmal gliomas in children] Helcl F. **Bratisl Lek Listy** 1997 Mar;98(3):166–9 (20 ref.) (Eng. Abstr.) **(Cze)**

[Resection of glioma located in deep or eloquent area: application of functional mapping, intraoperative monitoring and navigation with CT or MRI–assisted

stereotactic guidance] Matsumoto K, et al.
No Shinkei Geka 1997 Jan;25(1):17–28 (58 ref.) **(Jpn)**
[Experimental study of detection of brain tumor at surgery using fluorescent imaging under a surgical microscope after fluorescein administration] Kabuto M, et al.
No To Shinkei 1997 Mar;49(3):261–5 (Eng. Abstr.) **(Jpn)**
[Stereotactic multiple arc radiotherapy] Nomura K, et al.
No To Shinkei 1996 Feb;48(2):143–8 (15 ref.) **(Jpn)**

THERAPY

Effects of an intratumoral injection of human recombinant tumor necrosis factor–alpha on cerebrovascular permeability and leukocytic infiltration in a rat glioma model. Wright JL, et al. **Acta Neuropathol (Berl)** 1997 Jan; 93(1):78–86
Concurrent radiation and intracarotid cisplatin infusion in malignant gliomas: a feasibility study. Fountzilas G, et al. **Am J Clin Oncol** 1997 Apr;20(2):138–42
Malignant cerebral glioma. Patients should be treated in specialist units [letter; comment] Guerrero D, et al.
BMJ 1997 Mar 22;314(7084):899; discussion 901. Comment on: BMJ 1996 Dec 14;313(7071):1512–6.
The management of gliomas [editorial] Bliss P, et al.
Br J Hosp Med 1996 Feb 7–20;55(3):82–3
Gene therapy for brain tumours [editorial] Whittle IR.
Br J Neurosurg 1995;9(6):717–20
Endothelial cell–based cytokine gene delivery inhibits 9L glioma growth in vivo. Nam M, et al. **Brain Res** 1996 Aug 26;731(1–2):161–70
The failure of current immunotherapy for malignant glioma. Tumor–derived TGF–beta, T–cell apoptosis, and the immune privilege of the brain. Weller M, et al.
Brain Res Brain Res Rev 1995 Sep;21(2):128–51 (254 ref.)
Focal midbrain glioma: long term survival in a cohort of 16 patients and the implications for management. Hamilton MG, et al. **Can J Neurol Sci** 1996 Aug;23(3):204–7
High–dose carmustine for high–grade gliomas in childhood. Bouffet E, et al. **Cancer Chemother Pharmacol** 1997; 39(4):376–9
Defective herpes simplex virus vectors expressing thymidine kinase for the treatment of malignant glioma. Miyatake S, et al. **Cancer Gene Ther** 1997 Jul–Aug;4(4):222–8
Immunochemotherapy of malignant glioma: synergistic activity of CD95 ligand and chemotherapeutics. Roth W, et al. **Cancer Immunol Immunother** 1997 Mar;44(1):55–63
Evaluation of genetically engineered herpes simplex viruses as oncolytic agents for human malignant brain tumors. Andreansky S, et al. **Cancer Res** 1997 Apr 15;57(8):1502–9
Gap junctions promote the bystander effect of herpes simplex virus thymidine kinase in vivo. Dilber MS, et al.
Cancer Res 1997 Apr 15;57(8):1523–8
Treatment of murine gliomas by adoptive transfer of ex vivo activated tumor–draining lymph node cells. Plautz GE, et al. **Cell Immunol** 1997 Jun 15;178(2):101–7
Retreatment of patients with intracranial gliomas by external beam radiotherapy and cytotoxic chemotherapy. Hayat K, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):158–63
Recognition and management of gliomas. Kaba SE, et al. **Drugs** 1997 Feb;53(2):235–44 (56 ref.)
Etoposide and thiotepa followed by ABMT (autologous bone marrow transplantation) in children and young adults with high–grade gliomas. Bouffet E, et al. **Eur J Cancer** 1997 Jan;33(1):91–5
Angiogenesis in human gliomas: prognostic and therapeutic implications. Johnson JP, et al. **EXS** 1997;79:29–46 (116 ref.)
Lipoxygenase inhibitors block CD95 ligand–mediated apoptosis of human malignant glioma cells. Wagenknecht B, et al. **FEBS Lett** 1997 Jun 2;409(1):17–23
Gene therapy against an experimental glioma using adeno–associated virus vectors. Okada H, et al.
Gene Ther 1996 Nov;3(11):957–64
A continuous intracerebral gene delivery system for in vivo liposome–mediated gene therapy. Zhu J, et al.
Gene Ther 1996 Jun;3(6):472–6
Treatment of cancer using pulsed electric field in combination with chemotherapeutic agents or genes. Nishi T, et al.
Hum Cell 1997 Mar;10(1):81–6
Limited efficacy of the HSV–TK/GCV system for gene therapy of malignant gliomas and perspectives for the combined transduction of the interleukin–4 gene. Benedetti S, et al. **Hum Gene Ther** 1997 Jul 20;8(11):1345–53
Targeted killing of migrating glioma cells by injection of HTK–modified glioma cells. Tamura M, et al.
Hum Gene Ther 1997 Mar 1;8(4):381–91
A local hyperthermia treatment which enhances antibody uptake in a glioma xenograft model does not affect tumour interstitial fluid pressure. Hauck ML, et al.
Int J Hyperthermia 1997 May–Jun;13(3):307–16
Cisplatin, hyperthermia and radiation treatment in human cisplatin–sensitive and resistant glioma cell lines. Raaphorst GP, et al. **Int J Hyperthermia** 1996 Nov–Dec;12(6):801–12
Multicentric and multifocal primary cerebral tumours. Methods of diagnosis and treatment. Salvati M, et al.
Ital J Neurol Sci 1997 Feb;18(1):17–20
Cure of established, intracerebral rat gliomas induced by therapeutic immunizations with tumor cells and purified APC or adjuvant IFN–gamma treatment. Siesjö P, et al.
J Immunother Emphasis Tumor Immunol 1996 Sep; 19(5):334–45
Advantage of treating anaplastic gliomas with aggressive protocol combining chemotherapy and radiotherapy. Boiardi A, et al. **J Neurooncol** 1997 Sep;34(2):179–85
Treatment of infants with malignant gliomas: the Pediatric Oncology Group experience. Duffner PK, et al.
J Neurooncol 1996 May–Jun;28(2–3):245–56 (31 ref.)
An integrated approach to the treatment of chiasmatic–hypothalamic gliomas. Garvey M, et al.
J Neurooncol 1996 May–Jun;28(2–3):167–83 (75 ref.)
Treatment of recurrent malignant glioma with BCNU–fluosol and oxygen inhalation. A phase I–II study. Hochberg F, et al. **J Neurooncol** 1997 Mar;32(1):45–55
Strategies in the treatment of diffuse pontine gliomas: the therapeutic role of hyperfractionated radiotherapy and chemotherapy. Jennings MT, et al. **J Neurooncol** 1996 May–Jun;28(2–3):207–22 (122 ref.)
Preferential radiosensitization of 9L glioma cells transduced with HSV–tk gene by acyclovir. Kim SH, et al.
J Neurooncol 1997 Jul;33(3):189–94
Therapy–related chromosomal changes and cytogenetic heterogeneity in human gliomas. Lai YS, et al.
J Neurooncol 1997 Mar;32(1):7–17
The potential of topoisomerase I inhibitors in the treatment of CNS malignancies: report of a synergistic effect between topotecan and radiation. Lamond JP, et al.
J Neurooncol 1996 Oct;30(1):1–6
Low–grade gliomas: introduction and overview. Piepmeier JM, et al. **J Neurooncol** 1997 Aug;34(1):1–3 (26 ref.)
Special issues in the management of gliomas in children with neurofibromatosis 1. Pollack IF, et al. **J Neurooncol** 1996 May–Jun;28(2–3):257–68 (64 ref.)
Cognitive dysfunction following surgery for intracerebral glioma: influence of histopathology, lesion location, and treatment. Scheibel RS, et al. **J Neurooncol** 1996 Oct; 30(1):61–9
Current treatment of thalamic gliomas in children. Souweidane MM, et al. **J Neurooncol** 1996 May–Jun; 28(2–3):157–66 (58 ref.)
Usefulness of a mouse myelin basic protein promoter for gene therapy of malignant glioma: myelin basic protein promoter is strongly active in human malignant glioma cells. Miyao Y, et al. **Jpn J Cancer Res** 1997 Jul;88(7):678–86
Intracellular hyperthermia for cancer using magnetite cationic liposomes: in vitro study. Shinkai M, et al.
Jpn J Cancer Res 1996 Nov;87(11):1179–83
The cytocidal activity of OK–432–activated mononuclear cells against human glioma cells is partly mediated through the Fas ligand/Fas system. Toda K, et al.
Jpn J Cancer Res 1996 Sep;87(9):972–6
Efficient retrovirus–mediated cytokine–gene transduction of primary–cultured human glioma cells for tumor vaccination therapy. Wakimoto H, et al. **Jpn J Cancer Res** 1997 Mar; 88(3):296–305
Intracellular hyperthermia for cancer using magnetite cationic liposomes: ex vivo study. Yanase M, et al.
Jpn J Cancer Res 1997 Jul;88(7):630–2
Experimental studies of stereotactic laser balloon hyperthermic treatment. Hara M, et al.
Lasers Surg Med 1997;20(2):195–201
Multidisciplinary approach to malignant gliomas. Saris S.
Med Health R I 1996 Jun;79(6):210–3 (11 ref.)
Researchers to throw antisense against brain tumors [news] Veggeberg S. **Mol Med Today** 1996 Feb;2(2):48
Molecular neurosurgery using gene therapy to treat malignant glioma. Yoshida J. **Nagoya J Med Sci** 1996 Dec; 59(3–4):97–105 (33 ref.)
Adoptive immunotherapy of malignant glioma using tumor–sensitized T lymphocytes. Merchant RE, et al.
Neurol Res 1997 Apr;19(2):145–52 (11 ref.)
A phase I study of an anti–epidermal growth factor receptor monoclonal antibody for the treatment of malignant gliomas. Faillot T, et al. **Neurosurgery** 1996 Sep; 39(3):478–83
Application of antisense ribonucleic acid complementary to O6–methylguanine–deoxyribonucleic acid methyltransferase messenger ribonucleic acid for therapy of malignant gliomas. Nagane M, et al. **Neurosurgery** 1997 Aug;41(2):434–40; discussion 440–1
Alternative therapies for children with brain stem gliomas: immunotherapy and gene therapy. Packer RJ.
Pediatr Neurosurg 1996;24(4):217–22 (21 ref.)
The application of genetically engineered herpes simplex viruses to the treatment of experimental brain tumors. Andreansky SS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11313–8 (53 ref.)
[Immunotherapy of tumors expressing IGF–I] Trojan J, et al. **C R Seances Soc Biol Fil** 1996;190(1):165–9 (Eng. Abstr.) **(Fre)**
[Gene therapy for brain tumors] Mizuno M, et al.
Nippon Rinsho 1997 Jul;55(7):1853–60 (23 ref.) (Eng. Abstr.) **(Jpn)**
[Antitumor effect of intra–arterial tumor necrosis factor–alpha in rats with transplanted intracerebral glioma and its evaluation by MRI] Harada K, et al.
No Shinkei Geka 1995 Dec;23(12):1069–74 (Eng. Abstr.) **(Jpn)**
[The combined effect of hyperthermia and irradiation on cultured human glioma cell line] Shigematsu H.
No To Shinkei 1996 Aug;48(8):726–32 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Correlation of intra–operative ultrasound with histopathologic findings after tumour resection in supratentorial gliomas. A method to improve gross total tumour resection. Woydt M, et al.
Acta Neurochir (Wien) 1996;138(12):1391–8
Prenatal diagnosis of choroid plexus papillomas of the lateral ventricle. A report of two cases. Romano F, et al.
Prenat Diagn 1996 Jun;16(6):567–71
Preoperative and postoperative follow–up in high–grade gliomas: comparison of transcranial color–coded real–time sonography and computed tomography findings. Becker G, et al. **Ultrasound Med Biol** 1995;21(9):1123–35

ULTRASTRUCTURE

Mitochondrial damage following exposure of organotypic cultures of human malignant gliomas to 2–chloro– and 2–bromo–2'–deoxyadenosine. Matyja E, et al.
Folia Neuropathol 1996;34(1):31–9
Therapy–related chromosomal changes and cytogenetic heterogeneity in human gliomas. Lai YS, et al.
J Neurooncol 1997 Mar;32(1):7–17
Immunohistochemical and electron microscopic study of subependymal giant cell astrocytoma. Huang MC, et al.
Noshuyo Byori 1995;12(2):117–23
Changes of intermediate filaments in cultured human glioma cells with various growth factors and cytokines using high voltage immunoelectron microscopy. Taomoto K, et al.
Noshuyo Byori 1996 Apr;13(1):49–56
The acute effect of lead acetate on glucocorticoid receptor binding in C6 glioma cells. Tonner LE, et al.
Toxicology 1997 Jan 15;116(1–3):109–22
Ultrastructural pathology of glial brain tumors revisited: a review. Liberski PP, et al. **Ultrastruct Pathol** 1997 Jan–Feb; 21(1):1–31 (94 ref.)

GLIOMA, SUBEPENDYMAL

Intramedullary subependymoma of the spinal cord [see comments] Jallo GI, et al. **Neurosurgery** 1996 Feb; 38(2):251–7 (27 ref.). Comment in: Neurosurgery 1996 Oct;39(4):879.

CONGENITAL

Resolution of subependymal cysts in neonatal holocarboxylase synthetase deficiency. Squires L, et al.
Dev Med Child Neurol 1997 Apr;39(4):267–9

PATHOLOGY

Subependymoma of the third ventricle after partial resection of a craniopharyngioma and repeated postoperative irradiation. Tolnay M, et al. **Clin Neuropathol** 1996 Mar–Apr;15(2):63–6
Subependymoma of the septum pellucidum: characterization by PET. Mineura K, et al. **J Neurooncol** 1997 Apr; 32(2):143–7

SURGERY

Symptomatic subependymomas of the lateral ventricles. Report of eight cases. Maiuri F, et al.
Clin Neurol Neurosurg 1997 Feb;99(1):17–22 (31 ref.)
Tumors and approaches to the lateral ventricles. Introduction and overview. Piepmeier JM. **J Neurooncol** 1996 Dec; 30(3):267–74 (36 ref.)
Intramedullary subependymoma of the spinal cord [letter; comment] Matsumura A, et al. **Neurosurgery** 1996 Oct; 39(4):879. Comment on: Neurosurgery 1996 Feb;38(2):251–7.

GLIOSARCOMA

CHEMISTRY

Ion microscopy imaging of 10B from p–boronophenylalanine in a brain tumor model for boron neutron capture therapy. Smith DR, et al. **Cancer Res** 1996 Oct 1;56(19):4302–6

COMPLICATIONS

Gliosarcoma developing from an irradiated ependymoma. Kepes JJ, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):515–9

DIAGNOSIS

Mn–metalloporphyrin conjugated with Gd–DTPA (Gd–ATN10): tumor enhancement agent for magnetic resonance imaging. Matsumura A, et al.
Neurol Med Chir (Tokyo) 1997 Apr;37(4):327–31

DRUG THERAPY

Optimizing interstitial delivery of BCNU from controlled release polymers for the treatment of brain tumors. Sipos EP, et al. **Cancer Chemother Pharmacol** 1997;39(5):383–9
Intralesionally implanted cisplatin cures primary brain tumor in rats. Kong Q, et al. **J Surg Oncol** 1997 Apr;64(4):268–73
Prediction of drug cytotoxicity in 9L rat brain tumor by using flow cytometry with a deoxyribonucleic acid–binding dye. Iwadate Y, et al. **Neurosurgery** 1997 Apr;40(4):782–7; discussion 787–8
Efficacy of intralesionally administered cisplatin–impregnated biodegradable polymer for the treatment of 9L gliosarcoma in the rat. Lillehei KO, et al. **Neurosurgery** 1996 Dec;39(6):1191–7; discussion 1197–9

Liposome-mediated therapy of intracranial brain tumors in a rat model. Sharma US, et al. **Pharm Res** 1997 Aug; 14(8):992-8
Photodynamic therapy of 9L gliosarcoma with liposome-delivered photofrin. Jiang F, et al. **Photochem Photobiol** 1997 Apr;65(4):701-6
Sensitivity of 9L gliosarcomas to photodynamic therapy. Chopp M, et al. **Radiat Res** 1996 Oct;146(4):461-5

IMMUNOLOGY

Induction of acquired immunity in rats that have eliminated intracranial gliosarcoma cells by the expression of herpes simplex virus-thymidine kinase gene and ganciclovir administration. Iwadate Y, et al. **Oncology** 1997 Jul-Aug; 54(4):329-34

METABOLISM

Gliosarcoma. A study of 13 tumors, including p53 and CD34 immunohistochemistry. Sreenan JJ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):129-33
Glioma cells transduced with an Escherichia coli CD/HSV-1 TK fusion gene exhibit enhanced metabolic suicide and radiosensitivity. Rogulski KR, et al. **Hum Gene Ther** 1997 Jan 1;8(1):73-85
Regional differences in apoptosis in murine gliosarcoma (T9) induced by mild hyperthermia. Moroi J, et al. **Int J Hyperthermia** 1996 May-Jun;12(3):345-54
Comparison of uptake of 99mTc-alkylisonitriles in the rat 9L gliosarcoma tumor model. Packard AB, et al. **Nucl Med Biol** 1997 Jan;24(1):21-5

PATHOLOGY

Gliosarcoma. A study of 13 tumors, including p53 and CD34 immunohistochemistry. Sreenan JJ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):129-33
Postirradiated and nonirradiated gliosarcoma: immunophenotypical profile. Ang LC, et al. **Can J Neurol Sci** 1996 Nov;23(4):251-6
Evaluation of lipid-coated microbubbles as a delivery vehicle for Taxol in brain tumor therapy. Ho SY, et al. **Neurosurgery** 1997 Jun;40(6):1260-6; discussion 1266-8
[A clinical and pathological study of gliosarcoma] Li N, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun; 25(3):129-31 (Eng. Abstr.) **(Chi)**

RADIOTHERAPY

5-[125]iodo-2'-deoxyuridine in the radiotherapy of solid CNS tumors in rats. Kassis AI, et al. **Acta Oncol** 1996; 35(7):935-9
Intrathecal 5-[125I]iodo-2'-deoxyuridine in a rat model of leptomeningeal metastases. Sahu SK, et al. **J Nucl Med** 1997 Mar;38(3):386-90

SECONDARY

Herpes vector-mediated delivery of marker genes to disseminated central nervous system tumors. Kramm CM, et al. **Hum Gene Ther** 1996 Feb 10;7(3):291-300
Intrathecal 5-[125I]iodo-2'-deoxyuridine in a rat model of leptomeningeal metastases. Sahu SK, et al. **J Nucl Med** 1997 Mar;38(3):386-90

SURGERY

Cerebral gliosarcoma: prognostic factors. Cervoni L, et al. **Neurosurg Rev** 1996;19(2):93-6

THERAPY

Retroviral delivery and tetracycline-dependent expression of IL-1beta-converting enzyme (ICE) in a rat glioma model provides controlled induction of apoptotic death in tumor cells. Yu JS, et al. **Cancer Res** 1996 Dec 1; 56(23):5423-7
Gene therapy for malignant gliomas using replication incompetent retroviral and adenoviral vectors encoding the cytochrome P450 2B1 gene together with cyclophosphamide. Manome Y, et al. **Gene Ther** 1996 Jun; 3(6):513-20
In vivo replication-deficient adenovirus vector-mediated transduction of the cytosine deaminase gene sensitizes glioma cells to 5-fluorocytosine. Dong Y, et al. **Hum Gene Ther** 1996 Apr 10;7(6):713-20
Long-term survival in a rodent model of disseminated brain tumors by combined intrathecal delivery of herpes vectors and ganciclovir treatment. Kramm CM, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1989-94

VIROLOGY

The effect of ganciclovir on herpes simplex virus-mediated oncolysis. Carroll NM, et al. **J Surg Res** 1997 May; 69(2):413-7

GLIOSIS

CHEMICALLY INDUCED

Human amylin mimics amyloid beta protein-induced reactive gliosis and inhibition of cellular redox activity in cultured astrocytes. Abe K, et al. **Brain Res** 1997 Jul 11; 762(1-2):285-8
Basic fibroblast growth factor (bFGF) injection activates the glial reaction in the injured adult rat brain. Eclancher F, et al. **Brain Res** 1996 Oct 21;737(1-2):201-14
Acute exposure to CNTF in vivo induces multiple components of reactive gliosis. Levison SW, et al. **Exp Neurol** 1996 Oct;141(2):256-68
2,4-dichlorophenoxyacetic acid through lactation induces astrogliosis in rat brain. Brusco A, et al. **Mol Chem Neuropathol** 1997 Apr;30(3):175-85
Insulin-like growth factor I modulates c-Fos induction and astrocytosis in response to neurotoxic insult. Fernandez AM, et al. **Neuroscience** 1997 Jan;76(1):117-22

COMPLICATIONS

Wernicke's disease and schizophrenia: a case report and review of the literature. Casanova MF. **Int J Psychiatry Med** 1996;26(3):319-28 (50 ref.)

DIAGNOSIS

Reversible signal abnormalities in the hippocampus and neocortex after prolonged seizures. Chan S, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1725-31
The no-reflow phenomenon and dense fibrillary gliosis, cause of dark T2-weighted MR signal in stroke [letter; comment] Halls SB. **AJNR Am J Neuroradiol** 1996 Feb;17(2):394-5 . Comment on: AJNR Am J Neuroradiol 1994 Aug;15(7):1387-93.
Gliotic, nodular lesions in phenylketonuria: MR imaging findings. Sener RN. **Comput Med Imaging Graph** 1996 Sep-Oct;20(5):399-401

DRUG THERAPY

Differential susceptibility of senile and lesion-induced astrogliosis to phosphatidylserine. Jeglíński W, et al. **Neurobiol Aging** 1997 Jan-Feb;18(1):81-6

ETIOLOGY

Specificity of volumetric magnetic resonance imaging in detecting hippocampal sclerosis. Watson C, et al. **Arch Neurol** 1997 Jan;54(1):67-73
Induction of reactive gliosis by purinoceptor activation: a critical appraisal. Walz W. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jan; 13(1):30-5 (25 ref.)

IMMUNOLOGY

Astrogliosis in the neonatal and adult murine brain post-trauma: elevation of inflammatory cytokines and the lack of requirement for endogenous interferon-gamma. Rostworowski M, et al. **J Neurosci** 1997 May 15; 17(10):3664-74
Targeted CNS expression of interferon-gamma in transgenic mice leads to hypomyelination, reactive gliosis, and abnormal cerebellar development. Corbin JG, et al. **Mol Cell Neurosci** 1996 May;7(5):354-70

METABOLISM

Glial fibrillary acidic protein-immunoreactive astrocytosis in elderly patients with schizophrenia and dementia. Arnold SE, et al. **Acta Neuropathol (Berl)** 1996;91(3):269-77
Gliosis in the LP-BM5 murine leukemia virus-infected mouse: an animal model of retrovirus-induced dementia. Kustova Y, et al. **Brain Res** 1996 Dec 2;742(1-2):271-82
Temporal profiles of the in vitro phosphorylation rate and immunocontent of glial fibrillary acidic protein (GFAP) after kainic acid-induced lesions in area CA1 of the rat hippocampus: demonstration of a novel phosphoprotein associated with gliosis. Lenz G, et al. **Brain Res** 1997 Aug 1;764(1-2):188-96
SC1: a marker for astrocytes in the adult rodent brain is upregulated during reactive astrocytosis. McKinnon PJ, et al. **Brain Res** 1996 Feb 12;709(1):27-36
Eicosanoids and nitric oxide influence induction of reactive gliosis from spreading depression in microglia but not astrocytes. Caggiano AO, et al. **J Comp Neurol** 1996 May 20;369(1):93-108
Prion in progressive subcortical gliosis revisited [letter] Gambetti P. **Neurology** 1997 Jul;49(1):309-10

PATHOLOGY

Neuronal loss and gliosis of the amygdaloid nucleus in temporal lobe epilepsy. A quantitative analysis of 70 surgical specimens. Wolf HK, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):606-10
Neurodegeneration and gliosis in transgenic mice overexpressing a carboxy-terminal fragment of Alzheimer amyloid-beta protein precursor. Sato M, et al. **Dement Geriatr Cogn Disord** 1997 Sep-Oct;8(5):296-307
Cortical synaptic changes and gliosis in normal aging, Alzheimer's disease and frontal lobe degeneration. Liu X, et al. **Dementia** 1996 May-Jun;7(3):128-34
Astrocytes in kindling: relevance to epileptogenesis. Khurgel M, et al. **Epilepsy Res** 1996 Dec;26(1):163-75 (72 ref.)
Capability for reactive gliosis develops prenatally in the diencephalon but not in the cortex of rats. Ajtai BM, et al. **Exp Neurol** 1997 Jul;146(1):151-8
The time course of loss of dopaminergic neurons and the gliotic reaction surrounding grafts of embryonic mesencephalon to the striatum. Barker RA, et al. **Exp Neurol** 1996 Sep;141(1):79-93 (95 ref.)
A potent inhibitor of neurite outgrowth that predominates in the extracellular matrix of reactive astrocytes. Canning DR, et al. **Int J Dev Neurosci** 1996 Jun;14(3):153-75
Reactive astrocytosis from excitotoxic injury in hippocampal organ culture parallels that seen in vivo. Kunkler PE, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):26-43
Reactive astrogliosis of the spinal cord in amyotrophic lateral sclerosis. Schiffer D, et al. **J Neurol Sci** 1996 Aug;139 Suppl:27-33
Astrocytic reaction in long-term resuscitation. Fassina G, et al. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):77-82
Relationship of substance P and gliosis in medulla oblongata in neonatal sudden infant death syndrome. Obonai T, et al. **Pediatr Neurol** 1996 Oct;15(3):189-92

PHYSIOPATHOLOGY

Regulation of preproenkephalin expression in astrocytes: is there a role for glia-derived opioid peptides in reactive gliosis? McMillian MK, et al. **Crit Rev Neurobiol** 1994; 9(1):91-103 (109 ref.)
Electrophysiological changes that accompany reactive gliosis in vitro. MacFarlane SN, et al. **J Neurosci** 1997 Oct 1; 17(19):7316-29

GLIOTOXIN

ANALYSIS

Natural occurrence of gliotoxin in turkeys infected with Aspergillus fumigatus, Fresenius. Richard JL, et al. **Mycopathologia** 1996;134(3):167-70

PHARMACOLOGY

Apoptosis induced by gliotoxin is preceded by phosphorylation of histone H3 and enhanced sensitivity of chromatin to nuclease digestion. Waring P, et al. **J Biol Chem** 1997 Jul 18;272(29):17929-36

TOXICITY

Exacerbation of invasive aspergillosis by the immunosuppressive fungal metabolite, gliotoxin. Sutton P, et al. **Immunol Cell Biol** 1996 Aug;74(4):318-22

GLIPIZIDE

ADMINISTRATION & DOSAGE

Cardiovascular events and correlates in the Veterans Affairs Diabetes Feasibility Trial. Veterans Affairs Cooperative Study on Glycemic Control and Complications in Type II Diabetes. Abraira C, et al. **Arch Intern Med** 1997 Jan 27;157(2):181-8
The influence of multiple dosing and age on the pharmacokinetics and pharmacodynamics of glipizide in patients with type II diabetes mellitus. Jaber LA, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):760-8

CHEMISTRY

The effect of pH on the in-vitro dissolution of three second-generation sulphonylurea preparations: mechanism of antacid-sulphonylurea interaction. Lehto P, et al. **J Pharm Pharmacol** 1996 Sep;48(9):899-901

PHARMACOKINETICS

The influence of multiple dosing and age on the pharmacokinetics and pharmacodynamics of glipizide in patients with type II diabetes mellitus. Jaber LA, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):760-8

PHARMACOLOGY

[Glipizide--a short-acting sulphonylurea derivative] Ogonowski J. **Przegl Lek** 1996;53(9):666-7 (21 ref.) (Eng. Abstr.) **(Pol)**

THERAPEUTIC USE

Evaluations of retinopathy in the VA Cooperative Study on Glycemic Control and Complications in Type II Diabetes (VA CSDM). A feasibility study. Emanuele N, et al. **Diabetes Care** 1996 Dec;19(12):1375-81
The effect of glipizide gastrointestinal therapeutic system on islet cell hormonal responses to a test meal in NIDDM. Mooradian AD, et al. **Diabetes Care** 1996 Aug;19(8):883-4
Glipizide-GITS does not increase the hypoglycemic effect of mild exercise during fasting in NIDDM. Riddle MC, et al. **Diabetes Care** 1997 Jun;20(6):992-4
Efficacy, safety, and dose-response characteristics of glipizide gastrointestinal therapeutic system on glycemic control and insulin secretion in NIDDM. Results of two multicenter, randomized, placebo-controlled clinical trials. The Glipizide Gastrointestinal Therapeutic System Study Group. Simonson DC, et al. **Diabetes Care** 1997 Apr; 20(4):597-606
Intensive 50-week evaluation of glipizide administration in 50 cats with previously untreated diabetes mellitus. Feldman EC, et al. **J Am Vet Med Assoc** 1997 Mar 15; 210(6):772-7
[The role of glipizide in the treatment of non-insulin dependent diabetes] Małecki M. **Przegl Lek** 1996; 53(9):663-5 (20 ref.) (Eng. Abstr.) **(Pol)**

GLNH

GLNH see GIANT LYMPH NODE HYPERPLASIA

GLOBAL WARMING see GREENHOUSE EFFECT

GLOBIN

ANALYSIS

Erythroblastic inclusions in dominantly inherited beta thalassemias. Ho PJ, et al. **Blood** 1997 Jan 1;89(1):322–8

Identification of pre-gamma-globin. Johnson RM, et al. **Hemoglobin** 1997 Mar;21(2):143–53

Sensitive detection of human globin chains by microbore high-performance liquid chromatography and its forensic application. Inoue H, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):221–7

BIOSYNTHESIS

Localisation of beta-globin reporter sequences to the perinuclear cytoplasm by myosin heavy chain and vimentin 3'untranslated regions. Wiseman JW, et al. **Biochem Soc Trans** 1996 May;24(2):188S

Nitric oxide alters the expression of gamma-globin, H-ferritin, and transferrin receptor in human K562 cells at the posttranscriptional level. Domachowske JB, et al. **Blood** 1996 Oct 15;88(8):2980–8

Induction of gamma-globin by histone deacetylase inhibitors. McCaffrey PG, et al. **Blood** 1997 Sep 1;90(5):2075–83

Immunofluorescent study after transient transfection of myoblast cells with the plasmid PSV40-beta-globin. Pironcheva GL, et al. **Cytobios** 1996;86(347):243–6

Sequence analysis and tissue expression of a non-Bohr beta-globin cDNA from Atlantic salmon. McMorrow T, et al. **Gene** 1997 Apr 21;189(2):183–8

Cotranslational folding of globin. Komar AA, et al. **J Biol Chem** 1997 Apr 18;272(16):10646–51

Identification of functional elements of the chicken epsilon-globin promoter involved in stage-specific interaction with the beta/epsilon enhancer. Mason MM, et al. **J Biol Chem** 1996 Oct 11;271(41):25459–67

Magnetic resonance evidence of hypoxia in a homozygous alpha-knockout of a transgenic mouse model for sickle cell disease. Fabry ME, et al. **J Clin Invest** 1996 Dec 1; 98(11):2450–5

Regulated gene expression in reconstituted chromatin and synthetic nuclei. Barton MC, et al. **Methods Enzymol** 1996; 274:299–312

Essential role of NF-E2 in remodeling of chromatin structure and transcriptional activation of the epsilon-globin gene in vivo by 5' hypersensitive site 2 of the beta-globin locus control region. Gong QH, et al. **Mol Cell Biol** 1996 Nov; 16(11):6055–64

Protein tyrosine phosphatase-dependent activation of beta-globin and delta-aminolevulinic acid synthase genes in the camptothecin-induced IW32 erythroleukemia cell differentiation. Wang MC, et al. **Mol Pharmacol** 1997 Apr; 51(4):558–66

Selecting effective antisense reagents on combinatorial oligonucleotide arrays [see comments] Milner N, et al. **Nat Biotechnol** 1997 Jun;15(6):537–41. Comment in: Nat Biotechnol 1997 Jun;15(6):509.

Multiple regions of p45 NF-E2 are required for beta-globin gene expression in erythroid cells. Bean TL, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2509–15

Four highly stable eukaryotic mRNAs assemble 3' untranslated region RNA-protein complexes sharing cis and trans components. Holcik M, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2410–4

Repair of thalassemic human beta-globin mRNA in mammalian cells by antisense oligonucleotides. Sierakowska H, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12840–4

A complex of nuclear proteins mediates SR protein binding to a purine-rich splicing enhancer. Yeakley JM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7582–7

The role of mRNA stability in the control of globin gene expression. Russell JE, et al. **Prog Nucleic Acid Res Mol Biol** 1997;57:249–87 (99 ref.)

CHEMISTRY

Formation of peroxide- and globin-derived radicals from the reaction of methaemoglobin and metmyoglobin with t-butyl hydroperoxide: an ESR spin-trapping investigation. Van der Zee J. **Biochem J** 1997 Mar 1;322 (Pt 2):633–9

Three-dimensional reconstruction of native and reassembled Lumbricus terrestris extracellular hemoglobin. Localization of the monomeric globin chains. de Haas F, et al. **Biochemistry** 1997 Jun 17;36(24):7330–8

Contribution of surface histidyl residues in the alpha-chain to the Bohr effect of human normal adult hemoglobin: roles of global electrostatic effects. Sun DP, et al. **Biochemistry** 1997 Jun 3;36(22):6663–73

A non-local gap-penalty for profile alignment. Taylor WR. **Bull Math Biol** 1996 Jan;58(1):1–18

Using a measure of structural variation to define a core for the globins. Gerstein M, et al. **Comput Appl Biosci** 1995 Dec;11(6):633–44

Multiple sequence threading: conditional gap placement. Taylor WR, et al. **Fold Des** 1997;2(4):S33–9

beta S haplotypes, alpha-globin gene status, and hematological data of sickle cell disease patients in Guadeloupe (F.W.I.). Kéclard L, et al. **Hemoglobin** 1996 Feb;20(1):63–74

N-alkylvaline levels in globin as a new type of biomarker in risk assessment of alkylating agents. Lewalter J. **Int Arch Occup Environ Health** 1996;68(6):519–30

Cotranslational folding of globin. Komar AA, et al. **J Biol Chem** 1997 Apr 18;272(16):10646–51

Trematode myoglobins, functional molecules with a distal tyrosine. Rashid AK, et al. **J Biol Chem** 1997 Jan 31; 272(5):2992–9

Assembly of human hemoglobin. Studies with Escherichia coli–expressed alpha-globin. Sanna MT, et al. **J Biol Chem** 1997 Feb 7;272(6):3478–86

The globin-based free radical of ferryl hemoglobin is detected in normal human blood. Svistunenko DA, et al. **J Biol Chem** 1997 Mar 14;272(11):7114–21

PCR amplification of cDNAs of fish hemoglobin beta chains using a consensus primer: cDNA-derived amino acid sequences of beta chains from the catfish Parasilurus asotus and the scad Decapterus maruadsi. Suzuki T, et al. **J Protein Chem** 1996 May;15(4):389–94

The in vivo glyco-oxidation of alpha- and beta-globins investigated by matrix-assisted laser desorption/ionization mass spectrometry. Lapolla A, et al. **Rapid Commun Mass Spectrom** 1996;10(9):1133–5

A highly specific method for the characterization of glycation and glyco-oxidation products of globins. Lapolla A, et al. **Rapid Commun Mass Spectrom** 1997;11(6):613–7

Unusual structure of the oxygen-binding site in the dimeric bacterial hemoglobin from Vitreoscilla sp. Tarricone C, et al. **Structure** 1997 Apr 15;5(4):497–507

DEFICIENCY

A shortened life span of EKLF-/- adult erythrocytes, due to a deficiency of beta-globin chains, is ameliorated by human gamma-globin chains. Lim SK, et al. **Blood** 1997 Aug 1;90(3):1291–9

DRUG EFFECTS

Stable acetaldehyde adducts: structural characterization of acetaldehyde adducts of human hemoglobin N-terminal beta-globin chain peptides. Braun KP, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):40–3

GENETICS

Effects of exon sequences on splicing of model pre-mRNA substrates in vitro. Dominski Z, et al. **Acta Biochim Pol** 1996;43(1):161–73

Morbidity, beta S haplotype and alpha-globin gene patterns among sickle cell anemia patients in Kuwait. Adekile AD, et al. **Acta Haematol** 1996;96(3):150–4

Relative levels of alpha-, beta-, and gamma-mRNA from patients with severe and intermediate beta-thalassemia major. Smetanina NS, et al. **Acta Haematol** 1997; 97(4):205–10

Properties of the mouse alpha-globin HS-26: relationship to HS-40, the major enhancer of human alpha-globin gene expression. Bouhassira EE, et al. **Am J Hematol** 1997 Jan; 54(1):30–9

Different hematological phenotypes caused by the interaction of triplicated alpha-globin genes and heterozygous beta-thalassemia. Camaschella C, et al. **Am J Hematol** 1997 Jun;55(2):83–8

Effect of alpha-thalassemia and beta-globin gene cluster haplotypes on the hematological and clinical features of sickle-cell anemia in Brazil. Figueiredo MS, et al. **Am J Hematol** 1996 Oct;53(2):72–6

Expression of a cosmid containing the LCR, (A)gamma, delta, and beta globin genes in mouse erythroleukemia cells. Flamm M, et al. **Am J Hematol** 1996 Nov;53(3):181–7

Beta-globin haplotypes from blood spots for follow-up of newborn hemoglobinopathy screening. Hiti AL, et al. **Am J Hematol** 1997 Jan;54(1):76–8

Sickle cell disorder, beta-globin gene cluster haplotypes and alpha-thalassemia in neonates and adults from Guadeloupe. Kéclard L, et al. **Am J Hematol** 1997 May;55(1):24–7

Alpha genotyping in a heterogeneous Indian population [letter] Nadkarni AH, et al. **Am J Hematol** 1996 Oct; 53(2):149–50

Prenatal diagnosis based on simultaneous DNA analysis for alpha- and beta-globin genes [letter] Oron-Karni V, et al. **Am J Hematol** 1996 Nov;53(3):203–4

Molecular characterization of beta-thalassemia genes in an Argentine population. Roldán A, et al. **Am J Hematol** 1997 Mar;54(3):179–82

Molecular characterization of beta-thalassemia mutations in Guadeloupe. Romana M, et al. **Am J Hematol** 1996 Dec; 53(4):228–33

Genetic analysis of beta-thalassemia intermedia in Israel: diversity of mechanisms and unpredictability of phenotype. Rund D, et al. **Am J Hematol** 1997 Jan;54(1):16–22

Detection of alpha-thalassemia-2 (-3.7 kb) and its corresponding triplication (alpha)(alpha)(alpha) (anti-3.7 kb) by PCR: an improved technical change [letter] Smetanina NS, et al. **Am J Hematol** 1996 Nov;53(3):202–3

Frameshift CD 11 (-T) beta-thalassemia mutation [letter; comment] Villegas A, et al. **Am J Hematol** 1997 Mar; 54(3):265–6. Comment on: Am J Hematol 1996 Mar;51(3):240–2.

Archaic African and Asian lineages in the genetic ancestry of modern humans [see comments] Harding RM, et al. **Am J Hum Genet** 1997 Apr;60(4):772–89. Comment in: Am J Hum Genet 1997 Apr;60(4):755–7.

Presence of hemoglobinopathies in Sicily: a historic perspective. Schilirò G, et al. **Am J Med Genet** 1997 Mar 17;69(2):200–6

Molecular phylogeny of the New World monkeys (Platyrrhini, primates) based on two unlinked nuclear genes: IRBP intron 1 and epsilon-globin sequences. Schneider H, et al. **Am J Phys Anthropol** 1996 Jun; 100(2):153–79

Hb Malmö [beta-97(FG-4)His-->Gln] leading to polycythemia in a Dutch family. Giordano PC, et al. **Ann Hematol** 1996 Oct;73(4):183–8

A specificity comparison of four antisense types: morpholino, 2'-O-methyl RNA, DNA, and phosphorothioate DNA. Stein D, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun; 7(3):151–7

Isolation and sequencing of two alpha-globin genes alpha(A) and alpha(D) in pigeon and evidence for embryo-specific expression of the alpha(D)-globin gene. Ikehara T, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):450–3

cDNA-derived amino-acid sequence of a land turtle (Geochelone carbonaria) beta-chain hemoglobin. Bordin S, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):255–60

Transcriptional upregulation of gamma-globin by phenylbutyrate and analogous aromatic fatty acids. Hudgins WR, et al. **Biochem Pharmacol** 1996 Oct 25; 52(8):1227–33

Transcriptional control of globin gene switching during vertebrate development. Baron MH. **Biochim Biophys Acta** 1997 Mar 20;1351(1-2):51–72 (175 ref.)

Coactivation of human alpha1- and alpha2-globin genes in single induced MEL cells containing one human alpha-globin locus. Espéret C, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):27–32

Human MafG is a functional partner for p45 NF-E2 in activating globin gene expression. Blank V, et al. **Blood** 1997 Jun 1;89(11):3925–35

Characterization of adult alpha- and beta-globin genes in the zebrafish. Chan FY, et al. **Blood** 1997 Jan 15; 89(2):688–700

Genetic heterogeneity in heterocellular hereditary persistence of fetal hemoglobin. Craig JE, et al. **Blood** 1997 Jul 1;90(1):428–34

Activation of delta-globin gene expression by erythroid Krupple-like factor: a potential approach for gene therapy of sickle cell disease. Donze D, et al. **Blood** 1996 Nov 15; 88(10):4051–7

beta-Thalassemia mutation at -90C-->T impairs the interaction of the proximal CACCC box with both erythroid and nonerythroid factors [letter] Faustino P, et al. **Blood** 1996 Oct 15;88(8):3248–9

High-level globin gene expression mediated by a recombinant adeno-associated virus genome that contains the 3'gamma globin gene regulatory element and integrates as tandem copies in erythroid cells. Hargrove PW, et al. **Blood** 1997 Mar 15;89(6):2167–75

Clonal variability in beta-globin mRNA content in an interleukin-3-dependent bone marrow cell line transfected with the erythropoietin receptor before and after stimulation with erythropoietin. Ishiguro K, et al. **Blood** 1997 Sep 15;90(6):2273–81

Mouse zeta- and alpha-globin genes: embryonic survival, alpha-thalassemia, and genetic background effects. Leder A, et al. **Blood** 1997 Aug 1;90(3):1275–82

A shortened life span of EKLF-/- adult erythrocytes, due to a deficiency of beta-globin chains, is ameliorated by human gamma-globin chains. Lim SK, et al. **Blood** 1997 Aug 1;90(3):1291–9

A novel beta+-thalassemia mutation (codon 10 GCC --> GCA) and a rare transcriptional mutation (-28A --> G) in Indians [letter] Pawar AR, et al. **Blood** 1997 May 15; 89(10):3888–9

Interaction of hemoglobin E and pyrimidine 5' nucleotidase deficiency. Rees DC, et al. **Blood** 1996 Oct 1;88(7):2761–7

Globin gene switching in transgenic mice carrying HS2-globin gene constructs. Roberts NA, et al. **Blood** 1997 Jan 15;89(2):713–23

Phylogenetic footprinting of hypersensitive site 3 of the beta-globin locus control region. Shelton DA, et al. **Blood** 1997 May 1;89(9):3457–69

Restoration of the CCAAT box or insertion of the CACCC motif activate delta-globin gene expression. Tang DC, et al. **Blood** 1997 Jul 1;90(1):421–7

Modulatory subdomains of the HS2 enhancer differentially regulate enhancer activity in erythroid cells at different developmental stages. Cavallesco R, et al. **Blood Cells Mol Dis** 1997;23(1):8–26

Haemoglobin Lleida: a new alpha 2-globin variant (12 bp deletion) with mild thalassaemic phenotype. Ayala S, et al. **Br J Haematol** 1996 Sep;94(4):639–44

First description of a frameshift mutation in the alpha1-globin gene associated with alpha-thalassaemia. Ayala S, et al. **Br J Haematol** 1997 Jul;98(1):47–50

The relative importance of the X-linked FCP locus and beta-globin haplotypes in determining haemoglobin F levels: a study of SS patients homozygous for beta S haplotypes. Chang YP, et al. **Br J Haematol** 1997 Mar; 96(4):806–14

Beta-thalassaemia heterozygotes with alpha-globin gene triplication [letter; comment] Colah RB, et al.

Br J Haematol 1997 May;97(2):506–7. Comment on: Br J Haematol 1996 Dec;95(3):467–71.

An IVS1–116 (A–>G) acceptor splice site mutation in the alpha 2 globin gene causing alpha + thalassaemia in two Dutch families. Harteveld CL, et al. **Br J Haematol** 1996 Dec;95(3):461–6

Molecular analysis of the Turkish form of deletion–inversion (delta beta)(0) thalassaemia. Oner C, et al. **Br J Haematol** 1997 Feb;96(2):229–34

Gene expression in somatic cell hybrids derived from embryonic mice transgenic for human globin genes. Stanworth SJ, et al. **Br J Haematol** 1996 Sep;94(4):631–8

The triplicated alpha–globin gene locus in beta–thalassaemia heterozygotes: clinical, haematological, biosynthetic and molecular studies [see comments] Traeger–Synodinos J, et al. **Br J Haematol** 1996 Dec;95(3):467–71. Comment in: Br J Haematol 1997 May;97(2):506–7.

Alternative splicing of the erythropoietin receptor gene correlates with erythroid differentiation in rat hematopoietic and leukemic cells. Fujita M, et al. **Cancer Lett** 1997 Jan 15;112(1):47–55

Ligase chain reaction assay for human mutations: the Sickle Cell by LCR assay. Reyes AA, et al. **Clin Chem** 1997 Jan; 43(1):40–4

Colorimetric ELISA measurement of specific mRNA on immobilized–oligonucleotide–coated microtiter plates by reverse transcription with biotinylated mononucleotides. Tominaga K, et al. **Clin Chem** 1996 Nov;42(11):1750–7

Regulation of beta–globin gene expression: straightening out the locus. Martin DI, et al. **Curr Opin Genet Dev** 1996 Aug;6(4):488–95 (65 ref.)

The human beta–globin locus control region confers an early embryonic erythroid–specific expression pattern to a basic promoter driving the bacterial lacZ gene. Tewari R, et al. **Development** 1996 Dec;122(12):3991–9

H3.3A variant histone mRNA containing an alpha–globin insertion: modulated expression during mouse gametogenesis correlates with meiotic onset. López–Alánón DM, et al. **DNA Cell Biol** 1997 May; 16(5):639–44

Structural organization and sequence analysis of the globin locus in Atlantic salmon. McMorrow T, et al. **DNA Cell Biol** 1996 May;15(5):407–14

Conservation and periodicity of DNA bend sites in eukaryotic genomes. Wada–Kiyama Y, et al. **DNA Res** 1996 Feb 29;3(1):25–30

Temperature–programmed capillary electrophoresis for the analysis of high–melting point mutants in thalassemias. Gelfi C, et al. **Electrophoresis** 1997 May;18(5):724–31

Clinical expression of a rare beta–globin gene mutation co–inherited with haemoglobin E–disease. van Solinge WW, et al. **Eur J Clin Chem Clin Biochem** 1996 Dec; 34(12):949–54

A novel mutation in the beta–globin gene causing beta–thalassaemia in a Swedish family [letter] Landin B, et al. **Eur J Haematol** 1996 Aug;57(2):182–4

A mild form of Hb S–beta–thalassemia syndrome is assured in Sicilian patients by beta+mutant IVS–I nt 6(T–>C) [letter] Mirabile E, et al. **Eur J Haematol** 1997 Jan; 58(1):67–9

Sequence analysis and tissue expression of a non–Bohr beta–globin cDNA from Atlantic salmon. McMorrow T, et al. **Gene** 1997 Apr 21;189(2):183–8

Detection and characterization of two novel hypervariable microsatellite repeat regions within intron 2 of the alpha–globin gene of the bivalve mollusc Anadara trapezia. Nassif NT, et al. **Gene** 1996 Dec 12;183(1–2):225–30

Developmental regulation of the vertebrate globin multigene family. Baron MH. **Gene Expr** 1996;6(3):129–37 (69 ref.)

GAL4–VP16 stimulates two RNA polymerase II promoters primarily at the preinitiation complex assembly step. Jacob GA, et al. **Gene Expr** 1996;5(3):193–203

DNA haplotypes in Africans and West Indians with sickle cell anaemia or SC disease. Konstantopoulos K, et al. **Gene Geogr** 1996 Apr;10(1):19–24

Incorporation of beta–globin untranslated regions into a Sindbis virus vector for augmentation of heterologous mRNA expression. Strong TV, et al. **Gene Ther** 1997 Jun; 4(6):624–7

The role of EKLF in human beta–globin gene competition. Wijgerde M, et al. **Genes Dev** 1996 Nov 15;10(22):2894–902

Characterization and comparison of the human and mouse Dist1/alpha–globin complex reveals a tightly packed multiple gene cluster containing differentially expressed transcription units. Kielman MF, et al. **Genomics** 1996 Mar 15;32(3):341–51

Computer–assisted search for sites of nuclear matrix attachment [published erratum appears in Genomics 1996 Jul 1;35(1):273] Kramer JA, et al. **Genomics** 1996 Apr 15; 33(2):305–8

The complete sequences of the galago and rabbit beta–globin locus control regions: extended sequence and functional conservation outside the cores of DNase hypersensitive sites. Slightom JL, et al. **Genomics** 1997 Jan 1;39(1):90–4

Detection of 81 of 81 known mouse beta–globin promoter mutations with T4 endonuclease VII—the EMC method. Youil R, et al. **Genomics** 1996 Mar 15;32(3):431–5

Silent thalassemias: genotypes and phenotypes [see comments] Bianco I, et al. **Haematologica** 1997 May–Jun; 82(3):269–80. Comment in: Haematologica 1997 May–Jun;82(3):257–8.

Silent thalassemias [editorial; comment] Cappellini MD. **Haematologica** 1997 May–Jun;82(3):257–8. Comment on: Haematologica 1997 May–Jun;82(3):269–80.

Ida Bianco Silvestroni. From red cell osmotic fragility to molecular biology of globin genes. A long, productive life with thalassemia [editorial; comment] Cazzola M. **Haematologica** 1996 Sep–Oct;81(5):385–6. Comment on: Haematologica 1996 Sep–Oct;81(5):387–96.

Detection of alpha–globin gene disorders by a simple PCR methodology [see comments] [published erratum appears in Haematologica 1996 Nov–Dec;81(6):XVI] Foglietta E, et al. **Haematologica** 1996 Sep–Oct;81(5):387–96. Comment in: Haematologica 1996 Sep–Oct;81(5):385–6.

Hb Setif [alpha 94(G1)Asp–>Tyr] in Malta. Borg I, et al. **Hemoglobin** 1997 Jan;21(1):91–6

The gamma–globin gene rearrangements in newborns from the Republic of Macedonia. Efremov GD, et al. **Hemoglobin** 1996 Nov;20(4):401–14

5' hypersensitive site–2 and fetal hemoglobin in Brazilians. Figueirido MS, et al. **Hemoglobin** 1996 Nov;20(4):435–8

HB Hinwil or beta 38(C4)Thr–>Asn: a new beta chain variant detected in a Swiss family. Frischknecht H, et al. **Hemoglobin** 1996 Feb;20(1):31–40

HB Gouda [alpha 72(EF1)His–>Gln], a new silent alpha chain variant. Giordano PC, et al. **Hemoglobin** 1996 Feb; 20(1):21–9

Hb Cook [beta 132(H10)Lys–>Thr]: a new hemoglobin variant in a southeast Asian family. Hutt PJ, et al. **Hemoglobin** 1996 Nov;20(4):371–6

Hb Nunobiki or alpha 2 141 (HC3)Arg–>Cys beta 2 in a Belgian female results from a CGT–>TGT mutation in the alpha 2–globin gene. Kazanetz EG, et al. **Hemoglobin** 1996 Nov;20(4):443–5

beta S haplotypes, alpha–globin gene status, and hematological data of sickle cell disease patients in Guadeloupe (F.W.I.). Kéclard L, et al. **Hemoglobin** 1996 Feb;20(1):63–74

Sequence polymorphisms of potential functional relevance in the beta–globin gene locus. Labie D, et al. **Hemoglobin** 1996 May;20(2):85–101 (53 ref.)

The importance of the 3' untranslated region for the expression of the alpha–globin genes. Molchanova TP, et al. **Hemoglobin** 1996 Feb;20(1):41–54

Alpha–, beta–, and gamma–mRNA levels in beta–thalassemia; transcriptional and translational differences in heterozygotes, homozygotes, and compound heterozygotes. Smetanina NS, et al. **Hemoglobin** 1997 Jan; 21(1):27–39

The relative levels of different types of beta–mRNA and beta–globin in BFU–E derived colonies from patients with beta chain variants; further evidence for somatic mosaicism in the Hb Costa Rica carrier [beta 77(EF1)His–>Arg] Smetanina NS, et al. **Hemoglobin** 1996 Aug;20(3):199–212

alpha–thalassemia caused by a 16 bp deletion in the 3' untranslated region of the alpha 2–globin gene including the first nucleotide of the poly A signal sequence. Tamary H, et al. **Hemoglobin** 1997 Mar;21(2):121–30

beta haplotypes of three Mexican Mestizo families with Spanish (delta beta)o–thalassemia. Villalobos–Arámbula AR, et al. **Hemoglobin** 1996 Nov;20(4):439–42

Novel beta 0–thalassemia mutation in a Canadian woman of British descent (codons 72/73, –AGTGA, +T). Waye JS, et al. **Hemoglobin** 1997 Jul;21(4):385–7

alpha–Thalassemia in The Netherlands: a heterogeneous spectrum of both deletions and point mutations. Harteveld KL, et al. **Hum Genet** 1997 Sep;100(3–4):465–71

The involvement of Alu repeats in recombination events at the alpha–globin gene cluster: characterization of two alphazero–thalassaemia deletion breakpoints. Harteveld KL, et al. **Hum Genet** 1997 Apr;99(4):528–34

Molecular cloning of the breakpoints of the hereditary persistence of fetal hemoglobin type–6 (HPFH–6) deletion and sequence analysis of the novel juxtaposed region from the 3' end of the beta–globin gene cluster. Kosteas T, et al. **Hum Genet** 1997 Sep;100(3–4):441–5

Beta–thalassemia and beta[A] globin gene haplotypes in Mexican mestizos. Villalobos–Arámbula AR, et al. **Hum Genet** 1997 Apr;99(4):498–500

A novel mechanism generating short deletion/insertions following slippage is suggested by a mutation in the human alpha2–globin gene. Oron–Karni V, et al. **Hum Mol Genet** 1997 Jun;6(6):881–5

Novel and unusual deletion–insertion thalassemic mutation in exon 1 of the beta–globin gene. Badens C, et al. **Hum Mutat** 1996;8(1):89–92

New frameshift mutation, insertion of A, at codon 95 of the beta–globin gene causes beta–thalassemia in two Vietnamese families. Cai S, et al. **Hum Mutat** 1996; 8(3):293–4

Scanning method to identify the molecular heterogeneity of delta–globin gene especially in delta–thalassemias: detection of three novel substitutions in the promoter region of the gene. Papadakis M, et al. **Hum Mutat** 1997; 9(5):465–72

Beta–thalassemia (beta 90 GAG–>TAG): genetic diagnosis by allele–specific polymerase chain reaction and estimation of mutant mRNA expression by reverse transcription polymerase chain reaction. Ekawa K, et al. **Intern Med** 1996 Jun;35(6):463–7

Rapid communication: nucleotide sequence of rainbow trout alpha–globin I and IV cDNA. Yoshizaki G, et al. **J Anim Sci** 1997 May;75(5):1426

Conserved E boxes function as part of the enhancer in hypersensitive site 2 of the beta–globin locus control region. Role of basic helix–loop–helix proteins. Elnitski L, et al. **J Biol Chem** 1997 Jan 3;272(1):369–78

Globin gene silencing in primary erythroid cultures. An inhibitory role for interleukin–6. Ferry AE, et al. **J Biol Chem** 1997 Aug 8;272(32):20030–7

Fetal globin expression in New World monkeys. Johnson RM, et al. **J Biol Chem** 1996 Nov 22;271(47):30298

A novel DNA–binding protein, HS2NF5, interacts with a functionally important sequence of the human beta–globin locus control region. Lam LT, et al. **J Biol Chem** 1996 Dec 13;271(50):32421–9

Identification of functional elements of the chicken epsilon–globin promoter involved in stage–specific interaction with the beta/epsilon enhancer. Mason MM, et al. **J Biol Chem** 1996 Oct 11;271(41):25459–67

Destabilization of human alpha–globin mRNA by translation anti–termination is controlled during erythroid differentiation and is paralleled by phased shortening of the poly(A) tail. Morales J, et al. **J Biol Chem** 1997 Mar 7;272(10):6607–13

Evolution of a fetal expression pattern via cis changes near the gamma globin gene. TomHon C, et al. **J Biol Chem** 1997 May 30;272(22):14062–6

Expression studies of delta–globin gene alleles associated with reduced hemoglobin A2 levels in Greek Cypriots. Trifillis P, et al. **J Biol Chem** 1996 Oct 25;271(43):26931–8

Expression of soluble human beta–globin chains in bacteria and assembly in vitro with alpha–globin chains. Yamaguchi T, et al. **J Biol Chem** 1996 Oct 25;271(43):26677–83

Magnetic resonance evidence of hypoxia in a homozygous alpha–knockout of a transgenic mouse model for sickle cell disease. Fabry ME, et al. **J Clin Invest** 1996 Dec 1; 98(11):2450–5

A gene tree for beta–globin sequences from Melanesia. Harding RM, et al. **J Mol Evol** 1997;44 Suppl 1:S133–8

Caenorhabditis globin genes: rapid intronic divergence contrasts with conservation of silent exonic sites. Kloek AP, et al. **J Mol Evol** 1996 Aug;43(2):101–8

Globin introns: ancient or modern? Elder D. **J Theor Biol** 1997 Jul 7;187(1):77–80

Herpes simplex virus immediate–early proteins ICP0 and ICP4 activate the endogenous human alpha–globin gene in nonerythroid cells. Cheung P, et al. **J Virol** 1997 Mar; 71(3):1784–93

Adeno–associated virus type 2–mediated transduction of murine hematopoietic cells with long–term repopulating ability and sustained expression of a human globin gene in vivo. Ponnazhagan S, et al. **J Virol** 1997 Apr; 71(4):3098–104

Molecular diagnosis and carrier screening for beta thalassemia. Cao A, et al. **JAMA** 1997 Oct 15; 278(15):1273–7

Time–course of butyric acid–induced differentiation in human K562 leukemic cell line: rapid increase in gamma–globin, porphobilinogen deaminase and NF–E2 mRNA levels. Chénais B, et al. **Leukemia** 1997 Sep; 11(9):1575–9

Characterization and localization of the mProx1 gene directly upstream of the mouse alpha–globin gene cluster: identification of a polymorphic direct repeat in the 5'UTR. Kielman MF, et al. **Mamm Genome** 1996 Dec;7(12):877–80

Cloning and characterization of the mouse alpha globin cluster and a new hypervariable marker. Zhao QZ, et al. **Mamm Genome** 1996 Oct;7(10):749–53

Alternative splicing of the rabbit beta–globin pre–mRNA in vivo after transient transfection of myoblast and myotube cells. Pironcheva GL, et al. **Microbios** 1997;89(358):31–8

A molecular and evolutionary study of the beta–globin gene family of the Australian marsupial Sminthopsis crassicaudata. Cooper SJ, et al. **Mol Biol Evol** 1996 Sep; 13(7):1012–22

High levels of human gamma–globin gene expression in adult mice carrying a transgene of deletion–type hereditary persistence of fetal hemoglobin. Arcasoy MO, et al. **Mol Cell Biol** 1997 Apr;17(4):2076–89

NF–E2 disrupts chromatin structure at human beta–globin locus control region hypersensitive site 2 in vitro. Armstrong JA, et al. **Mol Cell Biol** 1996 Oct;16(10):5634–44

Essential role of NF–E2 in remodeling of chromatin structure and transcriptional activation of the epsilon–globin gene in vivo by 5' hypersensitive site 2 of the beta–globin locus control region. Gong QH, et al. **Mol Cell Biol** 1996 Nov; 16(11):6055–64

Identification of AUF1 (heterogeneous nuclear ribonucleoprotein D) as a component of the alpha–globin mRNA stability complex. Kiledjian M, et al. **Mol Cell Biol** 1997 Aug;17(8):4870–6

Transcription of the HS2 enhancer toward a cis–linked gene is independent of the orientation, position, and distance of the enhancer relative to the gene. Kong S, et al. **Mol Cell Biol** 1997 Jul;17(7):3955–65

CpG islands from the alpha–globin gene cluster increase gene expression in an integration–dependent manner. Shewchuk BM, et al. **Mol Cell Biol** 1997 Oct;17(10):5856–66

Sheltering of gamma–globin expression from position effects requires both an upstream locus control region and a regulatory element 3' to the A gamma–globin gene. Stamatoyannopoulos JA, et al. **Mol Cell Biol** 1997 Jan; 17(1):240–7

A globin enhancer acts by increasing the proportion of erythrocytes expressing a linked transgene. Sutherland HG,

et al. **Mol Cell Biol** 1997 Mar;17(3):1607–14

An intrachromosomal repeating unit based on DNA bending. Wada–Kiyama Y, et al. **Mol Cell Biol** 1996 Oct; 16(10):5664–73

Prenatal diagnosis of beta–thalassaemia mutations using the reverse dot blot technique [published erratum appears in Natl Med J India 1996 May–Jun;9(3):150] Muralitharan S, et al. **Natl Med J India** 1996 Mar–Apr;9(2):70–1

Analysis of enhancer function of the HS–40 core sequence of the human alpha–globin cluster. Chen H, et al. **Nucleic Acids Res** 1997 Jul 15;25(14):2917–22

Evaluation of beta–globin gene therapy constructs in single copy transgenic mice. Ellis J, et al. **Nucleic Acids Res** 1997 Mar 15;25(6):1296–302

Variegated expression of a globin transgene correlates with chromatin accessibility but not methylation status. Garrick D, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4902–9

Sequences within and flanking hypersensitive sites 3 and 2 of the beta–globin locus control region required for synergistic versus additive interaction with the epsilon–globin gene promoter. Jackson JD, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4327–35

Proximal promoter elements of the human zeta–globin gene confer embryonic–specific expression on a linked reporter gene in transgenic mice. Pondel MD, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4158–64

Structure and function of the zeta–globin upstream regulatory element. Sabath DE, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4978–86

Protein–DNA interactions in the human beta–globin locus control region hypersensitive site–2 as revealed by four nitrogen mustards. Temple MD, et al. **Nucleic Acids Res** 1997 Aug 15;25(16):3255–60

Beta–thalassemia alleles in Aegean region of Turkey: effect on clinical severity of disease. Nişli G, et al. **Pediatr Hematol Oncol** 1997 Jan–Feb;14(1):59–65

Association of –158 (C—>T) (XmnI) DNA polymorphism in G gamma–globin promoter with delayed switchover from fetal to adult hemoglobin synthesis. Peri KG, et al. **Pediatr Res** 1997 Feb;41(2):214–7

Misdiagnosis of homozygous alpha–thalassaemia 1 may occur if polymerase chain reaction alone is used in prenatal diagnosis. Ko TM, et al. **Prenat Diagn** 1997 Jun;17(6):505–9

Modulation of globin gene expression in cultured erythroid precursors derived from normal individuals: transcriptional and posttranscriptional regulation by hemin. Kollia P, et al. **Proc Assoc Am Physicians** 1997 Jul;109(4):420–8

The activation domain of the enhancer binding protein p45NF–E2 interacts with TAFII130 and mediates long–range activation of the alpha– and beta–globin gene loci in an erythroid cell line. Amrolia PJ, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10051–6

Molecular origin of the mosaic sequence arrangements of higher primate alpha–globin duplication units. Bailey AD, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5177–82

Distal enhancer regulation by promoter derepression in topologically constrained DNA in vitro. Barton MC, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7257–62

Synergism between hypersensitive sites confers long–range gene activation by the beta–globin locus control region. Bresnick EH, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4566–71

Reactivation of silenced, virally transduced genes by inhibitors of histone deacetylase. Chen WY, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5798–803

Characterization of the chicken beta–globin insulator. Chung JH, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21; 94(2):575–80

Four highly stable eukaryotic mRNAs assemble 3' untranslated region RNA–protein complexes sharing cis and trans components. Holcik M, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2410–4

Binary transgenic mouse model for studying the trans control of globin gene switching: evidence that GATA–1 is an in vivo repressor of human epsilon gene expression. Li Q, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2444–8

Mutation of gene–proximal regulatory elements disrupts human epsilon–, gamma–, and beta–globin expression in yeast artificial chromosome transgenic mice. Liu Q, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):169–74

Silencing of human fetal globin expression is impaired in the absence of the adult beta–globin gene activator protein EKLF. Perkins AC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12267–71

Long–range disruption of gene expression by a selectable marker cassette. Pham CT, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13090–5

Determination of neutral polymorphisms (frameworks) of the human beta globin gene in beta thalassaemias by PCR/DGGE. Moreira HW, et al. **Sangre (Barc)** 1997 Feb; 42(1):21–4

Active expression of G gamma globin gene on chromosome 11 with Yunnanese A gamma delta beta)0–thalassemia deletion in MEL cells. Zhang J, et al. **Sci China C Life Sci** 1996 Jun;39(3):329–36

Optimization of quantitative co–amplification of beta–globin and HIV–1 sequences. Pesce AM, et al. **Trends Genet** 1996 Nov;12(11):447–8

Production of transgenic mice with yeast artificial chromosomes. Peterson KR, et al. **Trends Genet** 1997 Feb; 13(2):61–6 (42 ref.)

The complexities of beta globin gene regulation. Wood WG. **Trends Genet** 1996 Jun;12(6):204–6 (21 ref.)

[A study of the variation of the (AT)xTy motif–530bp 5' to the beta–globin gene in the Chinese population] Zhou G, et al. **I Chuan Hsueh Pao** 1996;23(6):419–24 (Eng. Abstr.) **(Chi)**

[Identification and characterization of the rat beta–globin locus control region (LCR) site 1 and site 2] Kameyama G. **Nippon Ika Daigaku Zasshi** 1996 Apr;63(2):127–39 (Eng. Abstr.) **(Jpn)**

[Molecular mechanisms of globin gene regulation and disregulation] Fukumaki Y. **Nippon Rinsho** 1996 Sep; 54(9):2311–9 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Determination of segments of yeast artificial chromosomes, hypersensitive to nuclease S1, including a domain of human beta–globin genes] Svetlova EIu, et al. **Dokl Akad Nauk** 1997 Apr;353(4):562–4 **(Rus)**

[Association of alpha and beta thalassemia with alpha gene triplication in one family] Villegas A, et al. **Med Clin (Barc)** 1997 May 24;108(20):781–3 (Eng. Abstr.) **(Spa)**

[Most frequent beta–thalassemia mutations in the Argentinian population] Varela V, et al. **Sangre (Barc)** 1996 Apr; 41(2):137–40 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Improved fetal nucleated erythrocyte sorting purity using intracellular antifetal hemoglobin and Hoechst 33342. DeMaria MA, et al. **Cytometry** 1996 Sep 1;25(1):37–45

Rare event selection of fetal nucleated erythrocytes in maternal blood by flow cytometry. Lewis DE, et al. **Cytometry** 1996 Mar 1;23(3):218–27

METABOLISM

Oxidation of low–density lipoprotein by hemoglobin stems from a heme–initiated globin radical: antioxidant role of haptoglobin. Miller YI, et al. **Biochemistry** 1997 Oct 7; 36(40):12189–98

Ubiquitin aldehyde increases adenosine triphosphate–dependent proteolysis of hemoglobin alpha–subunits in beta–thalassemic hemolysates. Shaeffer JR, et al. **Blood** 1997 Aug 1;90(3):1300–8

Hb Utrecht [alpha 2 129(H12)Leu—>Pro], a new unstable alpha 2–chain variant associated with a mild alpha–thalassaemic phenotype. Harteveld CL, et al. **Br J Haematol** 1996 Sep;94(3):483–5

Detection of DNA and globin adducts of polynuclear aromatic hydrocarbon diol epoxides by gas chromatography–mass spectrometry and –3H–CH3I postlabeling of released tetraols. Melikian AA, et al. **Chem Res Toxicol** 1996 Mar;9(2):508–16

Dose dependence of covalent binding of acrylonitrile to tissue protein and globin in rats. Benz FW, et al. **Fundam Appl Toxicol** 1997 Apr;36(2):149–56

GLOBOSIDES

IMMUNOLOGY

Report on a patient with paroxysmal cold hemoglobinuria [published erratum appears in Int J Hematol 1997 Jul;66(1):121] Subbarayan PR, et al. **Int J Hematol** 1997 Feb;65(2):165–7

Multiple antibodies to nerve glycoconjugates in a patient with neuropathy and monoclonal IgA gammopathy. Farrer RG, et al. **J Neuroimmunol** 1996 May;66(1–2):71–6

Autoantibodies to peripheral nerve glycosphingolipids SPG, SLPG, and SGPG in Guillain–Barré syndrome and chronic inflammatory demyelinating polyneuropathy. Yuki N, et al. **J Neuroimmunol** 1996 Oct;70(1):1–6

Sensitization of Lewis rats with sulfoglucuronosyl paragloboside: electrophysiological and immunological studies of an animal model of peripheral neuropathy. Yamawaki M, et al. **J Neurosci Res** 1996 Apr 1;44(1):58–65

Generation and characterization of anti–sulfoglucuronosyl paragloboside monoclonal antibody NGR50 and its immunoreactivity with peripheral nerve. Yamawaki M, et al. **J Neurosci Res** 1996 Jun 15;44(6):586–93

Erythrocyte P antigen in beta thalassemia major patients with human parvovirus–B19 infection [letter; comment] Akar N, et al. **Pediatr Hematol Oncol** 1996 Nov–Dec;13(6):581–2 . Comment on: Pediatr Hematol Oncol 1995 Sep–Oct;12(5):507–9.

[Axonal motor neuropathy associated with anti–SGPG antibody] Hashiguchi S, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):224–7 (Eng. Abstr.) **(Jpn)**

[IgM antibody against sulfated glucuronyl paragloboside in a case of Guillain–Barré syndrome] Yoshino H, et al. **Rinsho Shinkeigaku** 1996 Aug;36(8):990–2 (Eng. Abstr.) **(Jpn)**

METABOLISM

Globoside as a membrane receptor: a consideration of oligosaccharide communication with the hydrophobic domain. Jones DH, et al. **Biochemistry** 1997 Jul 15; 36(28):8539–47

Enzymatic transfer of a beta1,6–linked N–acetylglucosamine to the alpha–galactose of globo–N–tetraose: in vitro synthesis of a novel hybrid pentasaccharide of lacto–globo type. Natunen J, et al. **Glycobiology** 1997 Jul;7(5):711–8

Biosynthesis in vitro of neolactotetraosylceramide by a galactosyltransferase from mouse T–lymphoma: purification and kinetic studies; synthesis of neolacto and polylactosamine core. Basu M, et al. **Glycoconj J** 1996 Jun; 13(3):423–32

SGPG in ALS [letter; comment] Steck A, et al. **Neurology** 1996 Apr;46(4):1195–6. Comment on: Neurology 1995 Apr;45(4):827–9.

GLOBULINS

ANALYSIS

Globulin–enriched protein supplements shorten the pre–compaction mitotic interval and promote hatching of murine embryos. Schneider EG, et al. **Am J Reprod Immunol** 1996 Aug;36(2):101–6

Fluorometric determination for micro amounts of albumin and globulin fractions without separation by using alpha, beta, gamma, delta–tetra(4'–carboxyphenyl)porphin. Li N, et al. **Anal Biochem** 1996 Jan 15;233(2):151–5

Identification and characterization of wheat grain albumin/globulin allergens. Weiss W, et al. **Electrophoresis** 1997 May;18(5):826–33

Relationship between in vitro Fe and Zn dialysability and peptide composition of albumin and globulins extracted from cooked bean (Phaseolus vulgaris L.). Lombardi–Boccia G, et al. **Int J Food Sci Nutr** 1996 Nov; 47(6):485–92

Rapid separation of soybean globulins by reversed–phase high–performance liquid chromatography. García MC, et al. **J Chromatogr A** 1997 Jan 10;758(1):75–83

[Gc–globulin in paracetamol poisoning] Schiødt FV, et al. **Ugeskr Laeger** 1996 Nov 11;158(46):6609–12 (Eng. Abstr.) **(Dan)**

BLOOD see SERUM GLOBULINS

CHEMISTRY

Molecular design of soybean glycinins with enhanced food qualities and development of crops producing such glycinins. Utsumi S, et al. **Adv Exp Med Biol** 1997;415:1–15 (54 ref.)

Partial characterization of the lysine rich 280kD globulin from common buckwheat (Fagopyrum esculentum Moench): its antigenic homology with seed proteins of some other crops. Rout MK, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):587–95

Large scale procedure for fractionation of albumins and globulins from pea seeds. Crévieu I, et al. **Nahrung** 1996 Oct;40(5):237–44

[Determination of energetically significant parts of globulins and hierarchy of domain structure in macromolecules of proteins] Berezovskiĭ IN, et al. **Biofizika** 1997 May–Jun; 42(3):567–76 (Eng. Abstr.) **(Rus)**

[Comparison of dynamic properties of various globular proteins and polyglutamic acid in alpha–helical and coil states. Rayleigh scattering of Mossbauer radiation data] Krupianskiĭ IuF, et al. **Biofizika** 1997 Jan–Feb;42(1):39–46 (Eng. Abstr.) **(Rus)**

[Interaction between globular proteins and water–soluble carbodiimides] Valuev IL, et al. **Prikl Biokhim Mikrobiol** 1997 Mar–Apr;33(2):180–2 (Eng. Abstr.) **(Rus)**

GENETICS

Actin in the parasite Toxoplasma gondii is encoded by a single copy gene, ACT1 and exists primarily in a globular form. Dobrowolski JM, et al. **Cell Motil Cytoskeleton** 1997; 37(3):253–62

Microsatellite birth register [letter] Gordon AJ. **J Mol Evol** 1997 Sep;45(3):337–8

Rice embryo globulins: amino–terminal amino acid sequences, cDNA cloning and expression. Sun JL, et al. **Plant Cell Physiol** 1996 Jul;37(5):612–20

IMMUNOLOGY

Partial characterization of the lysine rich 280kD globulin from common buckwheat (Fagopyrum esculentum Moench): its antigenic homology with seed proteins of some other crops. Rout MK, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):587–95

Effect of pH and temperature on the immunogenicity of glycinin (Glycine max L.). Demonte A, et al. **Plant Foods Hum Nutr** 1997;50(1):63–9

METABOLISM

Limited proteolysis of beta–conglycinin and glycinin, the 7S and 11S storage globulins from soybean [Glycine max (L.) Merr.]. Structural and evolutionary implications. Shutov AD, et al. **Eur J Biochem** 1996 Oct 1;241(1):221–8

Objective models for steroid binding sites of human globulins. Schnitker J, et al. **J Comput Aided Mol Des** 1997 Jan; 11(1):93–110

Fibrinogen and the albumin–globulin ratio in essential hypertension: relations to plasma renin system activity. Allikmets K, et al. **J Hum Hypertens** 1996 Feb;10(2):105–9

7S globulin from soybean is metabolized in human cell cultures by a specific uptake and degradation system. Lovati MR, et al. **J Nutr** 1996 Nov;126(11):2831–42

Vancomycin–binding characteristics in patients with serious infections. Li L, et al. **Pharmacotherapy** 1996 Nov–Dec;

16(6):1024–9

PHARMACOLOGY

Globulin–enriched protein supplements shorten the pre–compaction mitotic interval and promote hatching of murine embryos. Schneider EG, et al. **Am J Reprod Immunol** 1996 Aug;36(2):101–6

GLOBULINS, IMMUNE see **IMMUNOGLOBULINS**

GLOBUS HYSTERICUS see **CONVERSION DISORDER**

GLOBUS PALLIDUS

Obsessive–compulsive disorder following bilateral globus pallidus infarction. Rodrigo Escalona P, et al. **Biol Psychiatry** 1997 Sep 1;42(5):410–2

Acanthocytosis, retinitis pigmentosa, pallidal degeneration. Report of two cases without serum lipid abnormalities. Malandrini A, et al. **J Neurol Sci** 1996 Sep 1; 140(1–2):129–31

Pallidotomy in Parkinson's disease [editorial] Temlett JA. **S Afr Med J** 1996 Oct;86(10):1248–9

[Familial strio–pallido+ +–dentate calcification] Prieto JM, et al. **Rev Neurol** 1997 Aug;25(144):1213–5 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Basal ganglia volumes in children with attention–deficit hyperactivity disorder. Aylward EH, et al. **J Child Neurol** 1996 Mar;11(2):112–5

ANATOMY & HISTOLOGY

Afferent and efferent connections of the lateral and medial pallia of the silver lamprey. Northcutt RG, et al. **Brain Behav Evol** 1997;49(1):1–19

Three–dimensional morphology and distribution of pallidal axons projecting to both the lateral region of the thalamus and the central complex in primates. Arecchi–Bouchhioua P, et al. **Brain Res** 1997 Apr 18;754(1–2):311–4

Morphology of globus pallidus neurons: its correlation with electrophysiology in guinea pig brain slices [published erratum appears in J Comp Neurol 1997 Mar 31;380(1):154] Nambu A, et al. **J Comp Neurol** 1997 Jan 6;377(1):85–94

Comparison of cerebellothalamic and pallidothalamic projections in the monkey (Macaca fuscata): a double anterograde labeling study. Sakai ST, et al. **J Comp Neurol** 1996 Apr 29;368(2):215–28

Contrasting locations of pallidal–receiving neurons and microexcitable zones in primate thalamus. Buford JA, et al. **J Neurophysiol** 1996 Mar;75(3):1105–16

Pallidotomy, editorial review [editorial] Fernandez PM, et al. **Neurol Res** 1997 Feb;19(1):25–34 (85 ref.)

Position of the ventral pallidum in the rat prefrontal cortex–basal ganglia circuit. Maurice N, et al. **Neuroscience** 1997 Sep;80(2):523–34

Direct stereotactic targeting of the globus pallidus: an MRI–based anatomic variability study. Roberts DW, et al. **Stereotact Funct Neurosurg** 1995;65(1–4):1–5

CHEMISTRY

3–D tracing of biocytin–labelled pallido–thalamic axons in the monkey. Arecchi–Bouchhioua P, et al. **Neuroreport** 1996 Apr 10;7(5):981–4

CYTOLOGY

Metabolic correlates of pallidal neuronal activity in Parkinson's disease. Eidelberg D, et al. **Brain** 1997 Aug; 120 (Pt 8):1315–24

Cholinergic innervation of the song control nuclei by the ventral paleostriatum in the zebra finch: a double–labeling study with retrograde fluorescent tracers and choline acetyltransferase immunohistochemistry. Li R, et al. **Brain Res** 1997 Jul 25;763(2):239–46

Differential localization of AMPA glutamate receptor subunits in the two segments of the globus pallidus and the substantia nigra pars reticulata in the squirrel monkey. Paquet M, et al. **Eur J Neurosci** 1996 Jan;8(1):229–33

Evidence for a possible avian dorsal thalamic region comparable to the mammalian ventral anterior, ventral lateral, and oral ventroposterolateral nuclei. Medina L, et al. **J Comp Neurol** 1997 Jul 21;384(1):86–108

Efferent connections of the caudal part of the globus pallidus in the rat. Shammah–Lagnado SJ, et al. **J Comp Neurol** 1996 Dec 16;376(3):489–507

Cell cycle time of murine neopallial cells in vitro. Novak JP, et al. **J Neurosci Res** 1996 Jul 1;45(1):75–84

Contribution of the nucleus accumbens to cocaine–induced responses of ventral pallidal neurons. Johnson PI, et al. **Synapse** 1996 Mar;22(3):253–60

DRUG EFFECTS

Paradoxical action of the cannabinoid WIN 55,212–2 in stimulated and basal cyclic AMP accumulation in rat globus pallidus slices. Maneuf YP, et al. **Br J Pharmacol** 1997 Apr;120(8):1397–8

Systemic administration of rotenone produces selective damage in the striatum and globus pallidus, but not in the substantia nigra. Ferrante RJ, et al. **Brain Res** 1997 Apr 4;753(1):157–62

D1 dopamine receptors influence Fos immunoreactivity in the globus pallidus and subthalamic nucleus of intact and nigrostriatal–lesioned rats. Ruskin DN, et al. **Brain Res** 1995 Dec 12;703(1–2):156–64

Evidence for functional differences between entopeduncular nucleus and substantia nigra: effects of APV (DL–2–amino–5–phosphonovaleric acid) microinfusion on reaction time performance in the rat. Baunez C, et al. **Eur J Neurosci** 1996 Sep;8(9):1972–82

GABA– and glutamate–evoked responses in the rat ventral pallidum are modulated by dopamine. Johnson PI, et al. **Eur J Neurosci** 1997 Jul;9(7):1397–406

Activation of the cannabinoid receptor by delta 9–tetrahydrocannabinol reduces gamma–aminobutyric acid uptake in the globus pallidus. Maneuf YP, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):161–4

PET measurement of dopamine D2 receptor–mediated changes in striatopallidal function. Black KJ, et al. **J Neurosci** 1997 May 1;17(9):3168–77

Morphine modulation of GABA– and glutamate–induced changes of ventral pallidal neuronal activity. Johnson PI, et al. **Neuroscience** 1997 Mar;77(1):187–97

Contribution of the nucleus accumbens to cocaine–induced responses of ventral pallidal neurons. Johnson PI, et al. **Synapse** 1996 Mar;22(3):253–60

Activation of muscarinic receptors stimulates GABA release in the rat globus pallidus. Kayadjanian N, et al. **Synapse** 1997 Jun;26(2):131–9

Modulation of GABAergic transmission in the globus pallidus by the synthetic cannabinoid WIN 55,212–2. Maneuf YP, et al. **Synapse** 1996 Apr;22(4):382–5

Interactions between the mu opioid agonist DAMGO and substance P in regulation of the ventral pallidum. Mitrovic I, et al. **Synapse** 1996 Jul;23(3):142–51

[Methanol poisoning with bilateral necrosis of the putamen and additional involvement of the globus pallidus] Penndorf–Wehner F, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jul;167(1):99–100 (10 ref.) **(Ger)**

METABOLISM

Detection of nitrosyl complexes in human substantia nigra, in relation to Parkinson's disease. Shergill JK, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):298–305

Amphetamine–induced Fos expression in globus pallidus is altered by frontal cortex injury. Vargo JM, et al. **Brain Res** 1996 Apr 15;716(1–2):207–12

Manganese poisoning reduces strychnine–insensitive glycine binding sites in the globus pallidus of the mouse brain. Cano G, et al. **Invest Clin** 1996 Dec;37(4):209–19

Proton magnetic resonance spectroscopy in Parkinson's disease and progressive supranuclear palsy. Federico F, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):239–42

Dopamine–adenosine interactions in the striatum and the globus pallidus: inhibition of striatopallidal neurons through either D2 or A2A receptors enhances D1 receptor–mediated effects on c–fos expression. Le Moine C, et al. **J Neurosci** 1997 Oct 15;17(20):8038–48

Presynaptic versus postsynaptic localization of mu and delta opioid receptors in dorsal and ventral striatopallidal pathways. Olive MF, et al. **J Neurosci** 1997 Oct 1; 17(19):7471–9

Synergistic effect of D1 and D2 dopamine receptors on AP–1 DNA–binding activity in the striatum and globus pallidus of the rat with a unilateral 6–OHDA lesion of the medical forebrain bundle. Kashihara K, et al. **Life Sci** 1996; 59(20):1683–93

5–HT1D and 5–HT1E/1F binding sites in depressed suicides: increased 5–HT1D binding in globus pallidus but not cortex. Lowther S, et al. **Mol Psychiatry** 1997 Jul; 2(4):314–21

GABAA receptor–mediated K(+)–evoked GABA release from globus pallidus—analysis using microdialysis. Hashimoto T, et al. **Neurochem Int** 1997 Mar;30(3):247–52

The gamma 2 subunit of the GABAA receptor is concentrated in synaptic junctions containing the alpha 1 and beta 2/3 subunits in hippocampus, cerebellum and globus pallidus. Somogyi P, et al. **Neuropharmacology** 1996; 35(9–10):1425–44

Facilitation of glutamate release in the ventromedial division of the globus pallidus during palatable taste stimulation in freely moving rats: real–time measurement. Shimura T, et al. **Neurosci Res** 1997 Jul;28(3):281–4

Reduced eticlopride–induced Fos expression in caudate–putamen and globus pallidus after unilateral frontal cortex injury: relation to neglect. Vargo JM, et al. **Neuroscience** 1997 Feb;76(4):1083–95

PATHOLOGY

Absence of SOD1 gene abnormalities in familial amyotrophic lateral sclerosis with posterior column involvement without Lewy–body–like hyaline inclusions. Kato S, et al. **Acta Neuropathol (Berl)** 1996 Nov;92(5):528–33

Pallidal lesions. Structural and functional magnetic resonance imaging. Bucher SF, et al. **Arch Neurol** 1996 Jul;53(7):682–6

Proton magnetic resonance spectroscopy on childhood–onset dentatorubral–pallidoluysian atrophy (DRPLA). Miyazaki M, et al. **Brain Dev** 1996 Mar–Apr;18(2):142–6

Two different pathological conditions of photoparoxysmal responses in hereditary dentatorubral–pallidoluysian atrophy. Takahashi Y, et al. **Brain Dev** 1997 Jun;19(4):285–9

Huntington's disease and dentatorubral–pallidoluysian atrophy: proteins, pathogenesis and pathology. Ross CA, et al. **Brain Pathol** 1997 Jul;7(3):1003–16 (137 ref.)

Increased blood manganese in cirrhotic patients: relationship to pallidal magnetic resonance signal hyperintensity and neurological symptoms. Spahr L, et al. **Hepatology** 1996 Nov;24(5):1116–20

A unique origin and multistep process for the generation of expanded DRPLA triplet repeats. Yanagisawa H, et al. **Hum Mol Genet** 1996 Mar;5(3):373–9

Acute generalized dystonia due to a bilateral lesion of basal ganglia mainly affecting the nuclei pallidi. Benassi G, et al. **Ital J Neurol Sci** 1996 Feb;17(1):71–3

The relationship between (CAG)n repeat number and age of onset in a family with dentatorubral–pallidoluysian atrophy (DRPLA): diagnostic implications of confirmatory and predictive testing. Potter NT. **J Med Genet** 1996 Feb; 33(2):168–70

Clinical, motor, and biological correlates of depressive disorders after focal subcortical lesions. Lauterbach EC, et al. **J Neuropsychiatry Clin Neurosci** 1997 Spring; 9(2):259–66

Microelectrode–guided posteroventral pallidotomy for treatment of Parkinson's disease: postoperative magnetic resonance imaging analysis. Krauss JK, et al. **J Neurosurg** 1997 Sep;87(3):358–67

Conditionally immortalized neural progenitor cells grafted to the striatum exhibit site–specific neuronal differentiation and establish connections with the host globus pallidus. Lundberg C, et al. **Neurobiol Dis** 1996 Feb;3(1):33–50

Striatal efferent involvement and its correlation to levodopa efficacy in patients with multiple system atrophy. Ito H, et al. **Neurology** 1996 Nov;47(5):1291–9

Neurospectroscopic alterations and globus pallidus hyperintensity as related magnetic resonance markers of reversible hepatic encephalopathy. Pujol J, et al. **Neurology** 1996 Dec;47(6):1526–30

Dentatorubral–pallidoluysian atrophy proteins in lymphoblastoid cells. Yazawa I, et al. **Neurology** 1996 Aug; 47(2):586–8

MRI appearances consistent with haemorrhagic infarction as an early manifestation of carbon monoxide poisoning. Bianco F, et al. **Neuroradiology** 1996 May;38 Suppl 1:S70–2

Atypical MRI features of Wilson's disease: high signal in globus pallidus on T1–weighted images. Mochizuki H, et al. **Neuroradiology** 1997 Mar;39(3):171–4

Functional anatomy of the pallidal base in Parkinson's disease. Taha JM, et al. **Neurosurgery** 1996 Dec; 39(6):1164–7; discussion 1167–8

[(Neurological CPC.55). A 60–year–old woman with progressive cerebellar ataxia, myoclonus, and dementia (clinical conference)] Morikawa N, et al. **No To Shinkei** 1997 Jul;49(7):663–71 (Eng. Abstr.) **(Jpn)**

[A sporadic case of dentatorubral–pallidoluysian atrophy (DRPLA) having an elderly age of onset] Horikawa H, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):584–6 (Eng. Abstr.) **(Jpn)**

[A patient with parkinsonism presenting hyperintensity in the globus pallidus on T1–weighted MR images: the correlation with manganese poisoning] Katsuragi T, et al. **Rinsho Shinkeigaku** 1996 Jun;36(6):780–2 (Eng. Abstr.) **(Jpn)**

[A family with dentato–rubro–pallido–luysian atrophy (DRPLA): an intergenerational contraction of the CAG repeat] Murata K, et al. **Rinsho Shinkeigaku** 1997 Feb; 37(2):127–30 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Disturbances of neophobia and taste–aversion learning after bilateral kainate microlesions in the rat pallidum. Hernadi I, et al. **Behav Neurosci** 1997 Feb;111(1):137–46

6–Hydroxydopamine lesion of ventral pallidum blocks acquisition of place preference conditioning to cocaine. Gong W, et al. **Brain Res** 1997 Apr 18;754(1–2):103–12

Neuronal activity in the striatum and pallidum of primates related to the execution of externally cued reaching movements. Jaeger D, et al. **Brain Res** 1995 Oct 2; 694(1–2):111–27

NMDA–induced lesions of the nucleus accumbens or the ventral pallidum increase the rewarding efficacy of food to deprived rats. Johnson PI, et al. **Brain Res** 1996 May 25;722(1–2):109–17

Pallido–thalamo–motor cortical connections: an electron microscopic study in the macaque monkey. Kayahara T, et al. **Brain Res** 1996 Jan 15;706(2):337–42

Involvement of the nucleus accumbens–ventral pallidal pathway in postictal behavior induced by a hippocampal afterdischarge in rats. Ma J, et al. **Brain Res** 1996 Nov 11;739(1–2):26–35

Effects of suicide transport lesions of the striatopallidal or striatonigral pathways on striatal ultrastructure. Roberts RC, et al. **Brain Res** 1995 Dec 1;701(1–2):227–37

Alterations in pallidal neuronal responses to peripheral sensory and striatal stimulation in symptomatic and recovered parkinsonian cats. Rothblat DS, et al. **Brain Res** 1995 Dec 24;705(1–2):1–14

DOI disrupts prepulse inhibition of startle in rats via 5–HT2A receptors in the ventral pallidum. Sipes TE, et al. **Brain Res** 1997 Jun 27;761(1):97–104

Changes in specific binding sites of girisopam after chemical and surgical lesions in the striato–nigral system. Horváth EJ, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):141–4

Dopamine D1 receptor-mediated facilitation of GABAergic neurotransmission in the rat strioentopenduncular pathway and its modulation by adenosine A1 receptor-mediated mechanisms. Ferre S, et al. **Eur J Neurosci** 1996 Jul; 8(7):1545-53

GABA- and glutamate-evoked responses in the rat ventral pallidum are modulated by dopamine. Johnson PI, et al. **Eur J Neurosci** 1997 Jul;9(7):1397-406

Electrophysiological effects of a cannabinoid on neural activity in the globus pallidus. Miller AS, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):29-35

Efferent connections of the internal globus pallidus in the squirrel monkey: II. Topography and synaptic organization of pallidal efferents to the pedunculopontine nucleus. Shink E, et al. **J Comp Neurol** 1997 Jun 9;382(3):348-63

Efferent connections of the internal globus pallidus in the squirrel monkey: I. Topography and synaptic organization of the pallidothalamic projection. Sidibé M, et al. **J Comp Neurol** 1997 Jun 9;382(3):323-47

Differential synaptic innervation of striatofugal neurones projecting to the internal or external segments of the globus pallidus by thalamic afferents in the squirrel monkey. Sidibé M, et al. **J Comp Neurol** 1996 Feb 12;365(3):445-65

Ventral pallidostriatal pathway in the monkey: evidence for modulation of basal ganglia circuits. Spooren WP, et al. **J Comp Neurol** 1996 Jul 1;370(3):295-312

Changes in the control of arm position, movement, and thalamic discharge during local inactivation in the globus pallidus of the monkey. Inase M, et al. **J Neurophysiol** 1996 Mar;75(3):1087-1104

Neural information transferred from the putamen to the globus pallidus during learned movement in the monkey. Kimura M, et al. **J Neurophysiol** 1996 Dec;76(6):3771-86

Pallidal discharge related to the kinematics of reaching movements in two dimensions. Turner RS, et al. **J Neurophysiol** 1997 Mar;77(3):1051-74

Synaptic integration of functionally diverse pallidal information in the entopeduncular nucleus and subthalamic nucleus in the rat. Bevan MD, et al. **J Neurosci** 1997 Jan 1;17(1):308-24

Burst and oscillation as disparate neuronal properties. Kaneoke Y, et al. **J Neurosci Methods** 1996 Oct; 68(2):211-23

Homozygosity for an allele carrying intermediate CAG repeats in the dentatorubral-pallidoluysian atrophy (DRPLA) gene results in spastic paraplegia. Kurohara K, et al. **Neurology** 1997 Apr;48(4):1087-90

High-frequency stimulation of the globus pallidus for the treatment of Parkinson's disease. Pahwa R, et al. **Neurology** 1997 Jul;49(1):249-53

The substantia nigra as a site of synaptic integration of functionally diverse information arising from the ventral pallidum and the globus pallidus in the rat. Bevan MD, et al. **Neuroscience** 1996 Nov;75(1):5-12

Morphologically distinct subpopulations of neurotensin-immunoreactive striatal neurons observed in rat following dopamine depletions and D2 receptor blockade project to the globus pallidus. Brog JS, et al. **Neuroscience** 1996 Oct;74(3):805-12

Involvement of pallidal and nigral GABA mechanisms in the generation of tremulous jaw movements in rats. Finn M, et al. **Neuroscience** 1997 Sep;80(2):535-44

Ventral pallidum self-stimulation induces stimulus dependent increase in c-fos expression in reward-related brain regions. Panagis G, et al. **Neuroscience** 1997 Mar;77(1):175-86

The subthalamic nucleus and the external pallidum: two tightly interconnected structures that control the output of the basal ganglia in the monkey. Shink E, et al. **Neuroscience** 1996 Jul;73(2):335-57

Intrastriatally injected c-fos antisense oligonucleotide interferes with striatonigral but not striatopallidal gamma-aminobutyric acid transmission in the conscious rat. Sommer W, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14134-9

PHYSIOPATHOLOGY

Chronic electrostimulation of ventroposterolateral pallidum: follow-up. Siegfried J, et al. **Acta Neurochir Suppl (Wien)** 1997;68:11-3

Lack of expansion of cytosine adenine guanine trinucleotide repeat in the dentatorubral and pallidoluysian atrophy gene in Swedish schizophrenic patients. Jönsson E, et al. **Biol Psychiatry** 1996 Aug 1;40(3):228-9

Characteristic evoked potentials in childhood-onset dentatorubral-pallidoluysian atrophy. Miyazaki M, et al. **Brain Dev** 1996 Sep-Oct;18(5):389-93

Identification and characterization of neurons with tremor-frequency activity in human globus pallidus. Hutchison WD, et al. **Exp Brain Res** 1997 Mar; 113(3):557-63

Selective bilateral lesion of the globus pallidus: ten-year follow-up of memory impairment and frontal symptomatology. Piccirilli M, et al. **Ital J Neurol Sci** 1995 Dec;16(9):635-40

Symptomatic palatal tremor is associated with signs of cerebellar dysfunction [letter] Deuschl G, et al. **J Neurol** 1996 Jul;243(7):553-6

Involuntary movements during thermolesion predict a better outcome after microelectrode guided posteroventral pallidotomy. Merello M, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):210-3

Neurons in the globus pallidus do not show correlated activity in the normal monkey, but phase-locked oscillations appear in the MPTP model of parkinsonism. Nini A, et al. **J Neurophysiol** 1995 Oct;74(4):1800-5

High-frequency stimulation of the globus pallidus internalis in Parkinson's disease: a study of seven cases. Gross C, et al. **J Neurosurg** 1997 Oct;87(4):491-8

Characteristics and somatotopic organization of kinesthetic cells in the globus pallidus of patients with Parkinson's disease. Taha JM, et al. **J Neurosurg** 1996 Dec; 85(6):1005-12

Comparison of transcranial sonography, magnetic resonance imaging, and single photon emission computed tomography findings in idiopathic spasmodic torticollis. Becker G, et al. **Mov Disord** 1997 Jan;12(1):79-88

Dentatorubral-pallidoluysian atrophy. Clinical features of a five-generation Danish family. Nielsen JE, et al. **Mov Disord** 1996 Sep;11(5):533-41

Globus pallidus stimulation activates the cortical motor system during alleviation of parkinsonian symptoms [see comments] Davis KD, et al. **Nat Med** 1997 Jun;3(6):671-4 . Comment in: Nat Med 1997 Jun;3(6):602-3.

A mild form of infantile isolated sulphite oxidase deficiency. Barbot C, et al. **Neuropediatrics** 1995 Dec;26(6):322-4

Major depression after left posterior globus pallidus lesions. Lauterbach EC, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Jan; 10(1):9-16

High frequency stimulation of the internal Globus Pallidus (GPi) simultaneously improves parkinsonian symptoms and reduces the firing frequency of GPi neurons in the MPTP-treated monkey. Boraud T, et al. **Neurosci Lett** 1996 Aug 30;215(1):17-20

Functional anatomy of the pallidal base in Parkinson's disease. Taha JM, et al. **Neurosurgery** 1996 Dec; 39(6):1164-7; discussion 1167-8

Electrical stimulation of the globus pallidus preceding stereotactic posteroventral pallidotomy. Berić A, et al. **Stereotact Funct Neurosurg** 1996;66(4):161-9

RADIONUCLIDE IMAGING

Presynaptic nigrostriatal function in genetically tested asymptomatic relatives from the pallido-ponto-nigral degeneration family. Kishore A, et al. **Neurology** 1996 Dec; 47(6):1588-90

SURGERY

Selection criteria for unilateral posteroventral pallidotomy. Alterman RL, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:18-23

The effects of pallidotomy on Parkinson's disease: study design and assessment techniques. Gross RE, et al. **Acta Neurochir Suppl (Wien)** 1997;68:24-8

The side-effects and complications of posteroventral pallidotomy. Hariz MI, et al. **Acta Neurochir Suppl (Wien)** 1997;68:42-8

Controversies in pallidal surgery. Hariz MI. **Acta Neurochir Suppl (Wien)** 1997;68:1-10 (88 ref.)

Frameless 3D volume registration of MR data sets for stereotactic pallidotomy. Lehman RM, et al. **Acta Neurochir Suppl (Wien)** 1997;68:29-36

Unilateral pallidotomy for Parkinson's disease promptly improves a wide range of voluntary activities--especially gait and trunk movements. Meyer CH. **Acta Neurochir Suppl (Wien)** 1997;68:37-41

Posteroventral pallidotomy in movement disorders. Schuurman PR, et al. **Acta Neurochir Suppl (Wien)** 1997; 68:14-7

Gamma knife pallidotomy: case report. Bonnen JG, et al. **Acta Neurochir (Wien)** 1997;139(5):442-5

Electrophysiologic target localization in posteroventral pallidotomy. Iacono RP, et al. **Acta Neurochir (Wien)** 1997; 139(5):433-41

CT-target determination in postero-ventral pallidotomy: a universal method. Technical note. Spiegelmann R, et al. **Acta Neurochir (Wien)** 1996;138(6):732-5; discussion 736

MR imaging of stereotaxic pallidotomy and thalamotomy. Friedman DP, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):894-6

Treatment of advanced Parkinson's disease by posterior GPi pallidotomy: 1-year results of a pilot study [see comments] Baron MS, et al. **Ann Neurol** 1996 Sep;40(3):355-66. Comment in: Ann Neurol 1996 Sep;40(3):341-3. Comment in: Ann Neurol 1997 Jun;41(6):834-6. Comment in: Ann Neurol 1997 Jul;42(1):129-30.

Levodopa-inhibiting effect of pallidal surgery [letter; comment] Krack P, et al. **Ann Neurol** 1997 Jul;42(1):129-30 . Comment on: Ann Neurol 1996 Sep;40(3):355-66.

Neuropsychological and behavioral changes and weight gain after medial pallidotomy [letter; comment] Lang AE, et al. **Ann Neurol** 1997 Jun;41(6):834-6. Comment on: Ann Neurol 1996 Sep;40(3):355-66.

GPi pallidotomy--have we made a dent in Parkinson's disease? [editorial; comment] Olanow CW. **Ann Neurol** 1996 Sep;40(3):341-3. Comment on: Ann Neurol 1996 Sep;40(3):355-66.

Stereotactic pallidotomy for treatment of Parkinson's disease. Eller TW, et al. **AORN J** 1997 May;65(5):903-4, 907-16; quiz 917-20 (16 ref.)

Posteroventral medial pallidotomy in levodopa-unresponsive parkinsonism. Krauss JK, et al. **Arch Neurol** 1997 Aug; 54(8):1026-9

Cognitive sequelae of unilateral posteroventral pallidotomy. Soukup VM, et al. **Arch Neurol** 1997 Aug;54(8):947-50

Efficacy, stability and predictors of outcome of pallidotomy for Parkinson's disease. Six-month follow-up with additional 1-year observations. Kishore A, et al. **Brain** 1997 May;120 (Pt 5):729-37

Pallidotomy in Parkinson's disease increases supplementary motor area and prefrontal activation during performance of volitional movements an H2(15)O PET study. Samuel M, et al. **Brain** 1997 Aug;120 (Pt 8):1301-13

Pallidotomy increases cortical inhibition in Parkinson's disease. Strafella A, et al. **Can J Neurol Sci** 1997 May; 24(2):133-6

Respiratory failure following stereotactic neurosurgery in a 53-year-old woman. Swartz MA, et al. **Chest** 1997 Apr; 111(4):1112-4

The role of pallidotomy in Parkinson's disease and dystonia. Vitek JL, et al. **Curr Opin Neurol** 1997 Aug;10(4):332-9 (56 ref.)

Visual evoked potentials in the vicinity of the optic tract during stereotactic pallidotomy. Tobimatsu S, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 104(3):274-9

Treatment of Parkinson's disease. New surgical treatment strategies. Pollak P, et al. **Eur Neurol** 1996;36(6):400-4 (43 ref.)

Surgical control of akinesia in Parkinson's disease. Shima F, et al. **Eur Neurol** 1996;36 Suppl 1:55-61 (24 ref.)

Haloperidol decreases hyperkinetic paw treading induced by globus pallidus lesions in the rat. Cromwell HC, et al. **Exp Neurol** 1997 May;145(1):288-94

Pallidal and thalamic surgery for Parkinson's disease. Tasker RR, et al. **Exp Neurol** 1997 Mar;144(1):35-40 (21 ref.)

Combined stereotactic thalamotomy and posteroventral pallidotomy for Parkinson's disease. Iacono RP, et al. **J Image Guid Surg** 1995;1(3):133-40

Left-right differences in motor thresholds after stimulation of the globus pallidus before pallidotomy. Berić A, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):159-62

Usefulness of pallidotomy in advanced Parkinson's disease. Johansson F, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):125-32

Involuntary movements during thermolesion predict a better outcome after microelectrode guided posteroventral pallidotomy. Merello M, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):210-3

Pallidotomy: a surgical intervention for control of Parkinson's disease. Gilbert M, et al. **J Neurosci Nurs** 1996 Aug;28(4):215-6, 221 (10 ref.)

Stereotactic pallidotomy [letter; comment] Iacono RP. **J Neurosurg** 1996 Nov;85(5):987-8; discussion 988-90. Comment on: J Neurosurg 1996 Feb;84(2):194-202.

Stereotactic pallidotomy [letter; comment] Kondziolka D, et al. **J Neurosurg** 1996 Nov;85(5):986-7; discussion 988-90 . Comment on: J Neurosurg 1996 Feb;84(2):194-202.

Microelectrode-guided posteroventral medial radiofrequency pallidotomy for Parkinson's disease. Kopyov O, et al. **J Neurosurg** 1997 Jul;87(1):52-9

Microelectrode-guided posteroventral pallidotomy for treatment of Parkinson's disease: postoperative magnetic resonance imaging analysis. Krauss JK, et al. **J Neurosurg** 1997 Sep;87(3):358-67

Tremor control after pallidotomy in patients with Parkinson's disease: correlation with microrecording findings. Taha JM, et al. **J Neurosurg** 1997 Apr;86(4):642-7

Pallidotomy for tardive dyskinesia [letter] Wang Y, et al. **Lancet** 1997 Mar 15;349(9054):777-8

Pallidotomy for Parkinson's disease. **Med Lett Drugs Ther** 1996 Dec 6;38(989):107

Posteroventral medial pallidotomy in advanced Parkinson's disease. Lang AE, et al. **N Engl J Med** 1997 Oct 9; 337(15):1036-42

Visual evoked potential guidance for posteroventral pallidotomy in Parkinson's disease. Yokoyama T, et al. **Neurol Med Chir (Tokyo)** 1997 Mar;37(3):257-63; discussion 263-4

Pallidotomy, editorial review [editorial] Fernandez PM, et al. **Neurol Res** 1997 Feb;19(1):25-34 (85 ref.)

Normalization of middle latency auditory P1 potential following posterior ansa-pallidotomy in idiopathic Parkinson's disease. Mohamed AS, et al. **Neurol Res** 1996 Dec;18(6):516-20

Stereotactic pallidotomy for Parkinson's disease: a long-term follow-up of unilateral pallidotomy. Fazzini E, et al. **Neurology** 1997 May;48(5):1273-7

Posteroventral pallidotomy in a patient with parkinsonism caused by hypoxic encephalopathy. Goto S, et al. **Neurology** 1997 Sep;49(3):707-10

Pallidotomy: a survey of current practice in North America. Favre J, et al. **Neurosurgery** 1996 Oct;39(4):883-90; discussion 890-2

Identification and localization of intracerebral vessels by microvascular doppler in stereotactic pallidotomy and thalamotomy: technical note. Kamiryo T, et al. **Neurosurgery** 1997 Apr;40(4):877-8; discussion 878-9

Unilateral versus bilateral simultaneous posteroventral pallidotomy in subgroups of patients with Parkinson's disease. Iacono RP, et al. **Stereotact Funct Neurosurg** 1995; 65(1-4):6-9

Comparison of MRI and ventriculographic target acquisition for posteroventral pallidotomy. Mandybur G, et al. **Stereotact Funct Neurosurg** 1995;65(1-4):54-9

A new method to localize brain nuclei for surgery in extrapyramidal disease. Yuan S, et al. **Stereotact Funct Neurosurg** 1995;65(1–4):47–53

[Stereotactic pallidotomy—effective surgery for Parkinson's disease] Spiegelman R. **Harefuah** 1996 Nov 1;131(9):324–6 (8 ref.) **(Heb)**

[Surgical therapy of Parkinson's disease] Luquin MR. **Rev Neurol** 1997 Aug;25 Suppl 2:S180–4 (45 ref.) (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Plasticity of striatopallidal terminals following unilateral lesion of the dopaminergic nigrostriatal pathway: a morphological study. Ingham CA, et al. **Exp Brain Res** 1997 Aug;116(1):39–49

A spatial and quantitative study of the striatopallidal connection in the monkey. Yelnik J, et al. **Neuroreport** 1996 Apr 10;7(5):985–8

GLOMANGIOMA see **GLOMUS TUMOR**

GLOMERULAR FILTRATION RATE

Clearance of iohexol, chromium-51-ethylenediaminetetraacetic acid, and creatinine for determining the glomerular filtration rate in pigs with normal renal function: comparison of different clearance techniques. Frennby B, et al. **Acad Radiol** 1996 Aug;3(8):651–9

Comparison of three different methods of estimating the glomerular filtration rate in children after renal transplantation. al-Harbi N, et al. **Am J Nephrol** 1997; 17(1):68–71

Measurement of glomerular filtration rate using nonradioactive Iohexol: comparison of two one-compartment models. Rocco MV, et al. **Am J Nephrol** 1996;16(2):138–43

Inaccuracy of the Schwartz formula in estimating glomerular filtration rate in Nigerian children. Gbadegesin RA, et al. **Ann Trop Paediatr** 1997 Jun;17(2):179–85

Carboplatin dosing based on measurement of renal function—experience at the Peter MacCallum Cancer Institute. Millward MJ, et al. **Aust N Z J Med** 1996 Jun; 26(3):372–9

Hindered transport of macromolecules in isolated glomeruli. II. Convection and pressure effects in basement membrane. Edwards A, et al. **Biophys J** 1997 Jan;72(1):214–22

Geriatric renal function: estimating glomerular filtration in an ambulatory elderly population. Baracskay D, et al. **Clin Nephrol** 1997 Apr;47(4):222–8

Hyperfiltration in lean essential hypertension. Mimran A, et al. **Contrib Nephrol** 1996;119:98–102

Glomerular hyperfiltration in essential hypertension: cause or consequence? Schmieder RE. **Contrib Nephrol** 1996; 119:91–7 (19 ref.)

Is there still a role for a diet very low in protein, with or without supplements, in the management of patients with end-stage renal failure? Klahr S. **Curr Opin Nephrol Hypertens** 1996 Jul;5(4):384–7 (16 ref.)

Sodium balance in renal failure. Shemin D, et al. **Curr Opin Nephrol Hypertens** 1997 Mar;6(2):128–32 (39 ref.)

Lipoprotein(a) and atherosclerotic disease in insulin-dependent diabetic patients with declining glomerular filtration rate [letter] Earle KA, et al. **Diabet Med** 1996 Dec;13(12):1071–2

Salt restriction reduces hyperfiltration, renal enlargement, and albuminuria in experimental diabetes. Allen TJ, et al. **Diabetes** 1997 Jan;46(1): 19–24

Glomerular hyperfiltration in the prediction of nephropathy in IDDM: a 10-year follow-up study. Yip JW, et al. **Diabetes** 1996 Dec;45(12):1729–33

Stable glomerular filtration rate in normotensive IDDM patients with stable microalbuminuria. A 5-year prospective study. Mathiesen ER, et al. **Diabetes Care** 1997 Mar;20(3):286–9

Fish oil in diabetic nephropathy. Rossing P, et al. **Diabetes Care** 1996 Nov;19(11):1214–9

Determination of glomerular filtration rate with Visipaque in patients with severely reduced renal function. Kjaersgaard P, et al. **Eur Radiol** 1996;6(6):865–71

Prognostic value of the short-term antiproteinuric response to ACE inhibition for prediction of GFR decline in patients with nondiabetic renal disease. Wapstra FH, et al. **Exp Nephrol** 1996;4 Suppl 1:47–52 (48 ref.)

Estimation of glomerular filtration rate in type II (non-insulin dependent) diabetes mellitus patients. Nguyen HT, et al. **IMA J Math Appl Med Biol** 1997 Jun;14(2):151–60

Renal functional reserve in kidney and heart transplant recipients. Ader JL, et al. **J Am Soc Nephrol** 1996 Aug; 7(8):1145–52

Precision of glomerular filtration rate determinations for long-term slope calculations is improved by simultaneous infusion of 125I-iothalamate and 131I-hippuran. Apperloo AJ, et al. **J Am Soc Nephrol** 1996 Apr;7(4):567–72

Glomerular hyperfiltration during sympathetic nervous system activation in early essential hypertension. Schmieder RE, et al. **J Am Soc Nephrol** 1997 Jun;8(6):893–900

Role of adenosine in tubuloglomerular feedback and acute renal failure. Osswald H, et al. **J Auton Pharmacol** 1996 Dec;16(6):377–80 (34 ref.)

Free and total insulin-like growth factor I (IGF-I), IGF-binding protein-1 (IGFBP-1), and IGFBP-3 and their relationships to the presence of diabetic retinopathy and glomerular hyperfiltration in insulin-dependent diabetes mellitus [see comments] Janssen JA, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2809–15. Comment in: J Clin Endocrinol Metab 1997 Sep;82(9):2806–8.

Glomerular filtration rate in black Nigerian maturity onset diabetic patients with and without hypertension [letter] Odutola TA, et al. **J Hum Hypertens** 1996 May;10(5):333

The glomerular filtration rate, effective renal plasma flow, and renal blood flow in the adult male chacma baboon (Papio ursinus). Evans JP, et al. **J Med Primatol** 1996 Dec; 25(6):382–6

Feasibility of estimating glomerular filtration rate in children using single-sample adult technique. Ham HR, et al. **J Nucl Med** 1996 Nov;37(11):1805–8

The renal clearance of unchanged cisplatin during furosemide and mannitol diuresis is dependent on glomerular filtration rate in rats. Nagai N, et al. **J Pharm Sci** 1996 Jul;85(7):720–4

Urineless estimation of glomerular filtration rate and renal plasma flow in the rat. Rönnhedh C, et al. **J Pharmacol Toxicol Methods** 1996 Nov;36(3):123–9

A method for accurate measurement of GFR in conscious, spontaneously voiding rats. Marcel de Vries PA, et al. **Kidney Int** 1997 Jul;52(1):244–7

Measurement of Gd-DTPA dialysis clearance rates by using a look-locker imaging technique. Niendorf ER, et al. **Magn Reson Med** 1996 Oct;36(4):571–8

Renal function after conditioning therapy for bone marrow transplantation in childhood. Patzer L, et al. **Med Pediatr Oncol** 1997 Apr;28(4):274–83

Nutrition, ageing and GFR: is age-associated decline inevitable? Kimmel PL, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 9:85–8

Decreasing glomerular filtration rate—an indicator of more advanced diabetic glomerulopathy in the early course of microalbuminuria in IDDM adolescents? Rudberg S, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1149–54

Renal function in cancer patients treated with hyperthermic isolated limb perfusion with recombinant tumor necrosis factor-alpha and melphalan. Zwaveling JH, et al. **Nephron** 1997;76(2):146–52

Mosaic single plasma sample method for measuring glomerular filtration rate. Kim CK, et al. **Nucl Med Commun** 1996 Nov;17(11):952–6

Optimal sampling time for single-sample (Christensen-Groth) 51Cr-EDTA estimation of glomerular filtration rate [letter] Watson WS. **Nucl Med Commun** 1996 Jun;17(6):542, 544

The impact of residual renal function on the adequacy of peritoneal dialysis. Lameire N, et al. **Perit Dial Int** 1997; 17 Suppl 2:S102–10 (73 ref.)

A quantitative comparison of some FADS methods in renal dynamic studies using simulated and phantom data. Houston AS, et al. **Phys Med Biol** 1997 Jan;42(1):199–217

Multicenter trial validation of a camera-based method to measure Tc-99m mercaptoacetyltriglycine, or Tc-99m MAG3, clearance. Taylor A Jr, et al. **Radiology** 1997 Jul; 204(1):47–54

Pitfalls in the prediction of renal function in the intensive care unit. A review. Wells M, et al. **S Afr J Surg** 1997 Feb;35(1):16–9 (26 ref.)

Measurements of glomerular filtration in the intensive care unit are only a rough guide to renal function. Wells M, et al. **S Afr J Surg** 1997 Feb;35(1):20–3

The effect of reduced glomerular filtration rate on plasma total homocysteine concentration. Arnadottir M, et al. **Scand J Clin Lab Invest** 1996 Feb;56(1):41–6

Use of iohexol clearance to determine the glomerular filtration rate. A comparison between different clearance techniques in man and animal. Frennby B. **Scand J Urol Nephrol Suppl** 1997;182:1–63

Renal function in young patients on long-term cyclic parenteral nutrition. Colomb V, et al. **Transplant Proc** 1996 Oct;28(5):2785

Biphasic changes in glomerular filtration rate precede the onset of increased renal vascular resistance during hypothermic perfusion preservation. Lewis R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1318–21

Higher renal functional reserve in well-functioning renal grafts. Nakamura H, et al. **Transplant Proc** 1997 Feb-Mar; 29(1–2):231–2

Hyperfiltration nephropathy as a cause of late graft loss in renal transplantation. Modlin C, et al. **World J Urol** 1996; 14(4):256–64 (86 ref.)

[Relation between creatinine clearance and glomerular filtration in long-term monitoring of individuals with kidney transplants] Schück O, et al. **Vnitr Lek** 1996 Dec; 42(12):831–6 (Eng. Abstr.) **(Cze)**

[Precision of glomerular filtration estimation by height/creatinine ratio in the child] Cattaneo F, et al. **Nephrologie** 1996;17(6):329–32 (Eng. Abstr.) **(Fre)**

[Endothelin levels after extracorporeal shock waves, effects of renal function and blood pressure in rats] Masui N, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug; 87(8):1018–25 (Eng. Abstr.) **(Jpn)**

[Clinical assessment of glomerular filtration] Kawata T, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:601–4 (7 ref.) **(Jpn)**

[The use of a new method for determining the ratio of the glomerular filtration rate to circulating plasma volume in patients with arterial hypertension] Koniaeva EB, et al. **Ter Arkh** 1996;68(11):53–6 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Short-term treatment with ramipril normalizes renal haemodynamics and the natriuretic response to a sodium load in type I diabetic patients with early nephropathy. Stenvinkel P, et al. **Acta Diabetol** 1997 Mar;34(1):10–7

Short-term effects of blood pressure control and antihypertensive drug regimen on glomerular filtration rate: the African-American Study of Kidney Disease and Hypertension Pilot Study. Hall WD, et al. **Am J Kidney Dis** 1997 May;29(5):720–8

Effects of systemic NO synthesis inhibition on RPF, GFR, UNa, and vasoactive hormones in healthy humans. Bech JN, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F845–51

Cholesterol feeding does not alter renal hemodynamic response to acetylcholine and angiotensin II in rabbits. Carroll JF, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R940–7

Physiological role of nitric oxide in regulation of renal function in humans. Haynes WG, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F364–71

Agmatine affects glomerular filtration via a nitric oxide synthase-dependent mechanism. Schwartz D, et al. **Am J Physiol** 1997 May;272(5 Pt 2):F597–601

Effect of L-NAME on glomerular filtration rate in deep and superficial layers of rat kidneys. Treeck B, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F312–8

Renal resistance to ANF in salt-depleted rats is independent of sympathetic or ANG-aldosterone systems. Veress AT, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F545–50

Nitric oxide modulates glomerular filtration and renal blood flow of the newborn rabbit. Ballèvre L, et al. **Biol Neonate** 1996;69(6):389–98

Measurement of glomerular filtration rate using inulin prepared from Vernonia herbacea, a Brazilian native species. Dias-Tagliacozzo GM, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1393–6

Role of nitric oxide in tubuloglomerular feedback: effects of dietary salt. Welch WJ, et al. **Clin Exp Pharmacol Physiol** 1997 Aug;24(8):582–6

Cimetidine improves GFR-estimation by the Cockcroft and Gault formula. Ixkes MC, et al. **Clin Nephrol** 1997 Apr; 47(4):229–36

The use of growth factors to increase glomerular filtration rate in chronic renal failure patients. Miller SB, et al. **Curr Opin Nephrol Hypertens** 1997 Jul;6(4):401–4 (30 ref.)

Differences between nisoldipine and lisinopril on glomerular filtration rates and albuminuria in hypertensive IDDM patients with diabetic nephropathy during the first year of treatment. Rossing P, et al. **Diabetes** 1997 Mar; 46(3):481–7

Effect of long-acting somatostatin analog (Somatulin) on renal hyperfiltration in patients with IDDM. Jacobs ML, et al. **Diabetes Care** 1997 Apr;20(4):632–6

The relationship between urinary kallikrein and glomerular filtration rate (GFR) in type-1 diabetes: studies with lithium. Platts JK, et al. **Immunopharmacology** 1996 Jun; 33(1–3):351–3

Short-term effects of protein intake, blood pressure, and antihypertensive therapy on glomerular filtration rate in the Modification of Diet in Renal Disease Study. **J Am Soc Nephrol** 1996 Oct;7(10):2097–109

Effects of diadenosine polyphosphates on renal function and blood pressure in anesthetized Wistar rats. Hohage H, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1216–22

Autoregulation of total and zonal glomerular filtration rate in spontaneously hypertensive rats during antihypertensive therapy. Wang X, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):833–41

Does high salt intake cause hyperfiltration in patients with essential hypertension? Mallamaci F, et al. **J Hum Hypertens** 1996 Mar;10(3):157–61

Impact of nitric oxide on renal hemodynamics and glomerular function: modulation by atherogenic lipoproteins? Galle J, et al. **Kidney Blood Press Res** 1996;19(1):2–15 (180 ref.)

A short-term antihypertensive treatment-induced fall in glomerular filtration rate predicts long-term stability of renal function. Apperloo AJ, et al. **Kidney Int** 1997 Mar; 51(3):793–7

Nitrendipine and enalapril improve albuminuria and glomerular filtration rate in non-insulin dependent diabetes. Mosconi L, et al. **Kidney Int Suppl** 1996 Jun;55:S91–3

Randomised placebo-controlled trial of effect of ramipril on decline in glomerular filtration rate and risk of terminal renal failure in proteinuric, non-diabetic nephropathy. The GISEN Group (Gruppo Italiano di Studi Epidemiologici in Nefrologia) [see comments] **Lancet** 1997 Jun 28; 349(9069):1857–63. Comment in: Lancet 1997 Jun 28;349(9069):1852–3.

Effect of cyclosporin weaning on glomerular filtration rate in renal transplantation. Salas M, et al. **Nephron** 1996; 74(2):309–12

Single dose fetal betamethasone administration stabilizes postnatal glomerular filtration rate and alters endocrine function in premature lambs. Ervin MG, et al. **Pediatr Res** 1996 Nov;40(5):645–51

Effect of conversion from Sandimmune to Neoral on glomerular filtration rate in stable renal transplant recipients. Steinmuller D, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):298–9

[Low dosage dopamine improves kidney function: current

status of knowledge and evaluation of a controversial topic] Kindgen-Milles D, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):333-42 (85 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Extrarenal plasma clearance of iohexol and other markers of normal and reduced glomerular filtration rate. Almén T, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S254-6

Early renal transit of an iodinated contrast medium: factor-analytic dynamic computed tomography scanning study in rabbits. Lesnik A, et al. **Acad Radiol** 1996 Aug; 3 Suppl 2:S248-50

Regulation of filtration rate by glomerular mesangial cells in health and diabetic renal disease. Stockand JD, et al. **Am J Kidney Dis** 1997 Jun;29(6):971-81 (114 ref.)

Role of renal nerves and endogenous dopamine in amino acid-induced glomerular hyperfiltration. Mühlbauer B, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F144-9

Microalbuminuria as a predictor of a drop in glomerular filtration rate in subjects with non-insulin-dependent diabetes mellitus and hypertension. Berrut G, et al. **Clin Nephrol** 1997 Aug;48(2):92-7

Accuracy of formula-derived creatinine clearance in paraplegic subjects. Thakur V, et al. **Clin Nephrol** 1997 Apr;47(4):237-42

Pathophysiology of reduced glomerular filtration rate in delayed graft function. Scandling JD, et al. **Curr Opin Nephrol Hypertens** 1997 Jul;6(4):405-9 (53 ref.)

Regulation of renal sodium and water excretion in the nephrotic syndrome and cirrhosis of the liver. Jespersen B. **Dan Med Bull** 1997 Apr;44(2):191-207 (230 ref.)

Glomerular hyperfiltration is associated with blood pressure abnormalities in normotensive normoalbuminuric IDDM patients. Pecis M, et al. **Diabetes Care** 1997 Aug; 20(8):1329-33

The relationship between urinary kallikrein and glomerular filtration rate (GFR) in type-1 diabetes: studies with lithium. Platts JK, et al. **Immunopharmacology** 1996 Jun; 33(1-3):351-3

Renal response to acute dietary protein loading in young and old people [letter] Mulkerrin E, et al. **J Am Geriatr Soc** 1997 Mar;45(3):389-91

Vasopressin increases glomerular filtration rate in conscious rats through its antidiuretic action. Bouby N, et al. **J Am Soc Nephrol** 1996 Jun;7(6):842-51

Glomerular filtration rate determined from a single plasma sample after intravenous iohexol injection: is it reliable? Gaspari F, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2689-93

Plasma clearance rate of 51Cr-EDTA provides a precise and convenient technique for measurement of glomerular filtration rate in diabetic humans. Sambataro M, et al. **J Am Soc Nephrol** 1996 Jan;7(1):118-27

Evaluation of serum creatinine for estimating glomerular filtration rate in African Americans with hypertensive nephrosclerosis: results from the African-American Study of Kidney Disease and Hypertension (AASK) Pilot Study. Toto RD, et al. **J Am Soc Nephrol** 1997 Feb;8(2):279-87

Effects of SWL on glomerular filtration rate and renal plasma flow in uninephrectomized minipigs. Willis LR, et al. **J Endourol** 1997 Feb;11(1):27-32

Single-sample methods to measure GFR with technetium-99m-DTPA. Li Y, et al. **J Nucl Med** 1997 Aug; 38(8):1290-5

Determination of glomerular filtration rate using technetium-99m-DTPA with differing degrees of renal function. Morton KA, et al. **J Nucl Med Technol** 1997 Jun; 25(2):110-4

Effects of extracorporeal shock wave lithotripsy to one kidney on bilateral glomerular filtration rate and PAH clearance in minipigs. Willis LR, et al. **J Urol** 1996 Oct; 156(4):1502-6

Limitations to body length/serum creatinine ratio as an estimate of glomerular filtration in children. Seikaly MG, et al. **Pediatr Nephrol** 1996 Dec;10(6):709-11

Glomerular filtration rate in primary Sjögren's syndrome with renal disease. Eriksson P, et al. **Scand J Urol Nephrol** 1996 Apr;30(2):121-7

[Relationship between some parameters of carbohydrate metabolism, proteinuria and glomerular filtration rate in patients with primary glomerulonephritis] Biedunkiewicz B, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):208-14 (Eng. Abstr.) **(Pol)**

VETERINARY

Evaluation of a single injection method, using iohexol, for estimating glomerular filtration rate in cats and dogs. Brown SA, et al. **Am J Vet Res** 1996 Jan;57(1):105-10

Use of plasma clearance of inulin for estimating glomerular filtration rate in cats. Brown SA, et al. **Am J Vet Res** 1996 Dec;57(12):1702-5

Renal clearance of endogenous creatinine, urea, sodium, and potassium in normal cats and cats with chronic renal failure. Deguchi E, et al. **J Vet Med Sci** 1997 Jul;59(7):509-12

Estimation of glomerular filtration rate in normal sheep by the disappearance of iohexol from serum. Nesje M, et al. **Vet Res Commun** 1997 Jan;21(1):29-35

GLOMERULAR MESANGIUM

Age-related histochemical and ultrastructural changes in renal glomerular mesangium of APA hamsters. Nishida E, et al. **Exp Anim** 1996 Oct;45(4):339-45

Gene delivery into the glomerulus via mesangial cell vectors. Kitamura M. **Exp Nephrol** 1997 Mar-Apr;5(2):118-25 (40 ref.)

An immortalized rat mesangial cell line [letter] Nitta K, et al. **In Vitro Cell Dev Biol Anim** 1997 Mar;33(3):156-7

ANATOMY & HISTOLOGY

Three-dimensional analysis of the whole mesangium in the rat. Inkyo-Hayasaka K, et al. **Kidney Int** 1996 Aug; 50(2):672-83

[Concise information on the structure and function of intraglomerular mesangia] Trávníčková E. **Cesk Fysiol** 1996 Sep;45(3):164-7 (21 ref.) (Eng. Abstr.) **(Cze)**

CHEMISTRY

Potassium conductances and proliferation in conditionally immortalized renal glomerular mesangial cells from the H-2Kb-tsA58 transgenic mouse. Barber RD, et al. **Biochim Biophys Acta** 1997 Feb 4;1355(2):191-203

Evidence for the existence of multiple heparan sulfate proteoglycans in the human glomerular basement membrane and mesangial matrix. Groffen AJ, et al. **Eur J Biochem** 1997 Jul 1;247(1):175-82

CD44 in glomerulonephritis: expression in human renal biopsies, the Thy 1.1 model, and by cultured mesangial cells. Roy-Chaudhury P, et al. **Kidney Int** 1996 Jul; 50(1):272-81

Changes in cell-cycle protein expression during experimental mesangial proliferative glomerulonephritis. Shankland SJ, et al. **Kidney Int** 1996 Oct;50(4):1230-9

CYTOLOGY

Endogenous origin of glomerular endothelial and mesangial cells in grafts of embryonic kidneys. Hyink DP, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F886-99

Overexpression of protein kinase C-zeta isoform increases cyclooxygenase-2 and inducible nitric oxide synthase. Miller BW, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C130-6

Loss of differences in mesangial cell phenotype between diabetic and normal rats: role of culture passages. Ouardani M, et al. **Biol Cell** 1996;86(2-3):127-33

Isolated glomeruli and cultured mesangial cells as in vitro models to study immunosuppressive agents. Potier M, et al. **Cell Biol Toxicol** 1996 Dec;12(4-6):263-70 (36 ref.)

Effect of emodin on c-myc proto-oncongen expression in cultured rat mesangial cells. Liu ZH, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):61-3

Proinflammatory cytokines regulate Fc alphaR expression by human mesangial cells in vitro. Bagheri N, et al. **Clin Exp Immunol** 1997 Feb;107(2):404-9

The 80-kD fibronectin fragment increases the production of fibronectin and tumour necrosis factor-alpha (TNF-alpha) in cultured mesangial cells. Lopez-Armada MJ, et al. **Clin Exp Immunol** 1997 Feb;107(2):398-403

Regulation of mesangial cell proliferation by the mevalonate pathway. Massy ZA, et al. **Contrib Nephrol** 1997;120:191-6 (21 ref.)

Mitogen-activated protein kinase cascade is activated in glomeruli of diabetic rats and glomerular mesangial cells cultured under high glucose conditions. Haneda M, et al. **Diabetes** 1997 May;46(5):847-53

Glomerular basement membrane-derived perlecan inhibits mesangial cell adhesion to fibronectin. Gauer S, et al. **Eur J Cell Biol** 1996 Jul;70(3):233-42

Decrease of bradykinin-induced glomerular contraction in diabetic rat: a new cellular interpretation. Ouardani M, et al. **Eur J Cell Biol** 1997 Jul;73(3):232-9

Tranilast inhibits the growth of rat mesangial cells. Ikeda M, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):283-7

Nitric oxide donors induce apoptosis in glomerular mesangial cells, epithelial cells and endothelial cells. Mühl H, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):137-49

Selective inhibition of platelet-derived growth factor (PDGF) receptor autophosphorylation and PDGF-mediated cellular events by a quinoline derivative. Yagi M, et al. **Exp Cell Res** 1997 Aug 1;234(2):285-92

Gentamicin treatment increases mesangial cell nitric oxide production. Rivas-Cabañero L, et al. **Exp Nephrol** 1997 Jan-Feb;5(1):23-30

Extracellular matrix distribution and hillock formation in human mesangial cells in culture without serum. Glass WF 2nd, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2230-43

HDL causes mesangial cell mitogenesis through a tyrosine kinase-dependent receptor mechanism. Neverov NI, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1247-56

Antithrombin III inhibits mesangial cell proliferation. Pahl MV, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2249-53

Overexpression of cell cycle inhibitors (p16INK4 and p21Cip1) and cyclin D1 using adenovirus vectors regulates proliferation of rat mesangial cells. Terada Y, et al. **J Am Soc Nephrol** 1997 Jan;8(1):51-60

Compartmentalization of cAMP signaling in mesangial cells by phosphodiesterase isozymes PDE3 and PDE4. Regulation of superoxidation and mitogenesis. Chini CC, et al. **J Biol Chem** 1997 Apr 11;272(15):9854-9

Transcription factor Egr-1 regulates glomerular mesangial cell proliferation. Hofer G, et al. **J Biol Chem** 1996 Nov 8;271(45):28306-10

Trapidil modifies mesangial cell proliferation and collagen accumulation in anti-thymocyte serum (ATS)-induced glomerulonephritis. Razzaque MS, et al. **J Comp Pathol** 1996 Feb;114(2):175-82

Insulin-like growth factor I (IGF-I) induces unique effects in the cytoskeleton of cultured rat glomerular mesangial cells. Berfield AK, et al. **J Histochem Cytochem** 1997 Apr; 45(4):583-93

The balance between nitric oxide and superoxide determines apoptotic and necrotic death of rat mesangial cells. Sandau K, et al. **J Immunol** 1997 May 15;158(10):4938-46

In vivo transfer of engineered macrophages into the glomerulus: endogenous TGF-beta-mediated defense against macrophage-induced glomerular cell activation. Sütö TS, et al. **J Immunol** 1997 Sep 1;159(5):2476-83

Glomerular epithelial cell products stimulate mesangial cell proliferation in culture. Budde K, et al. **Kidney Int** 1997 Sep;52(3):733-41

Role of interleukin-6 in mediating mesangial cell proliferation and matrix production in vivo. Eitner F, et al. **Kidney Int** 1997 Jan;51(1):69-78

Dual effect of lysophosphatidic acid on proliferation of glomerular mesangial cells. Gaits F, et al. **Kidney Int** 1997 Apr;51(4):1022-7

Adhesion molecules in the glomerular mesangium. Gauer S, et al. **Kidney Int** 1997 May;51(5):1447-53 (54 ref.)

Alteration of cytosolic calcium induced by angiotensin II and norepinephrine in mesangial cells from diabetic rats. Hadad SJ, et al. **Kidney Int** 1997 Jan;51(1):87-93

Cellular signaling and proliferative action of AVP in mesangium of SHR: effect of low density lipoprotein. Ishikawa S, et al. **Kidney Int** 1996 Nov;50(5):1506-14

Phosphorylation of cAMP responsive element binding protein after treatment of mesangial cells with high glucose plus TGF beta or PMA. Kreisberg JI, et al. **Kidney Int** 1996 Sep;50(3):805-10

pp60c-src is required for the induction of a quiescent mesangial cell phenotype. Marx M, et al. **Kidney Int** 1997 Jan;51(1):110-8

Hydrogen peroxide increases the intracellular calcium activity in rat mesangial cells in primary culture. Meyer TN, et al. **Kidney Int** 1996 Feb;49(2):388-95

Cell-matrix interactions in the glomerular mesangium. Rupprecht HD, et al. **Kidney Int** 1996 Jun;49(6):1575-82 (43 ref.)

Apoptosis of cultured rat glomerular mesangial cells induced by IgG2a monoclonal anti-Thy-1 antibodies. Sato T, et al. **Kidney Int** 1996 Feb;49(2):403-12

Efficient induction of apoptosis in cultured rat glomerular mesangial cells by dimeric monoclonal IgA anti-Thy-1 antibodies. Sato T, et al. **Kidney Int** 1997 Jan;51(1):173-81

TGF-beta1-induced cell cycle arrest in renal mesangial cells involves inhibition of cyclin E-cdk 2 activation and retinoblastoma protein phosphorylation. Schoecklmann HO, et al. **Kidney Int** 1997 Apr;51(4):1228-36

Native and oxidized low density lipoproteins modulate mesangial cell apoptosis. Sharma P, et al. **Kidney Int** 1996 Nov;50(5):1604-11

Gelatinase A is a glomerular mesangial cell growth and differentiation factor. Turck J, et al. **Kidney Int** 1997 May; 51(5):1397-400 (9 ref.)

Interleukin-10 is a mesangial cell growth factor in vitro and in vivo. Chadban SJ, et al. **Lab Invest** 1997 May; 76(5):619-27

Morphological and morphometric changes in mesothelial cells during peritoneal dialysis in the rabbit. Di Paolo N, et al. **Nephron** 1996;74(3):594-9

Lipocortin-1 inhibits proliferation of cultured human mesangial cells. Kim SB, et al. **Nephron** 1996;74(1):39-44

Effect of beraprost sodium, a PGI2 analogue, on proliferation of cultured rat glomerular mesangial cells [letter] Makita Y, et al. **Nephron** 1996;74(1):228

Inhibitory effect of adrenomedullin on rat mesangial cell mitogenesis. Segawa K, et al. **Nephron** 1996;74(3):577-9

Thrombospondin modulates adhesion, proliferation and production of extracellular matrix in mesangial cells. Tada H, et al. **Tohoku J Exp Med** 1995 Dec;177(4):293-302

[Interrelationship between endothelin and glomerular mesangial cells] Chen J, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Aug;25(4):206-8 (Eng. Abstr.) **(Chi)**

[Cell proliferation factors and vascular damage] Block LH, et al. **Cardiologia** 1996 May;41 Suppl 1:13-7 **(Ita)**

[The role of the interaction between macrophages and mesangial cells in the progression of IgA nephropathy] Abe A, et al. **Nippon Jinzo Gakkai Shi** 1996 Nov;38(11):519-29 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

UTP and ATP induce different membrane voltage responses in rat mesangial cells. Huber-Lang M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F704-11

Microlocalization and effects of adrenomedullin in nephron segments and in mesangial cells of the rat. Owada A, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F691-7

Unexpected protection of glomerular mesangial cells from oxidant-triggered apoptosis by bioflavonoid quercetin. Yokoo T, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F206-12

Inhibitory effect of the intravenous anesthetic, ketamine, on rat mesangial cell proliferation. Jimi N, et al. **Anesth Analg** 1997 Jan;84(1):190-5

RGD-containing peptides trigger apoptosis in glomerular mesangial cells of adult human kidneys. Chen X, et al.

Biochem Biophys Res Commun 1997 May 29;234(3):594–9
Chemically modified tetracyclines inhibit inducible nitric oxide synthase expression and nitric oxide production in cultured rat mesangial cells. Trachtman H, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):243–8
Group II phospholipase A2 as an autocrine growth factor mediating interleukin-1 action on mesangial cells. Wada A, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):99–108
Inhibition by P1075 and pinacidil of a calcium-independent chloride conductance in conditionally-immortal renal glomerular mesangial cells. Barber RD, et al. **Br J Pharmacol** 1996 Oct;119(4):772–8
Stimulation by extracellular ATP and UTP of the stress-activated protein kinase cascade in rat renal mesangial cells. Huwiler A, et al. **Br J Pharmacol** 1997 Mar;120(5):807–12
Suppression by cyclosporin A of interleukin 1 beta-induced expression of group II phospholipase A2 in rat renal mesangial cells. Walker G, et al. **Br J Pharmacol** 1997 Jun; 121(4):787–93
Isolated glomeruli and cultured mesangial cells as in vitro models to study immunosuppressive agents. Potier M, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):263–70 (36 ref.)
Nitric oxide (NO) donor 3-morpholinosydnonimine antagonizes cyclosporin A-induced contraction in two in vitro glomerular models. Potier M, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):335–9
Adenosine activates mesangial cell proliferation. MacLaughlin M, et al. **Cell Signal** 1997 Jan;9(1):59–63
Modifying influence of enalaprilat on mesangial cell DNA synthesis induced by hydrogen peroxide. D'Souza RJ, et al. **Clin Chim Acta** 1997 Mar 18;259(1–2):137–46
Cytotoxic effect of autocrine and macrophage-derived nitric oxide on cultured rat mesangial cells. Hruby Z, et al. **Clin Exp Immunol** 1997 Jan;107(1):76–82
Angiotensin II-induced tyrosine phosphorylation in mesangial and vascular smooth muscle cells. Marrero MB, et al. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):83–8 (46 ref.)
Effects of lipoprotein (a) on mesangial cell biology. Greiber S, et al. **Contrib Nephrol** 1997;120:146–52 (35 ref.)
Effect of low-density lipoproteins on mesangial cell expression of monocyte chemoattractant peptides. Kamanna VS, et al. **Contrib Nephrol** 1997;120:176–90 (65 ref.)
Effects of aminoguanidine on serum advanced glycation endproducts, urinary albilmin excretion, mesangial expansion, and glomerular basement membrane thickening in Otsuka Long-Evans Tokushima fatty rats. Yamauchi A, et al. **Diabetes Res Clin Pract** 1997 Jan;34(3):127–33
The activation of phospholipase D participates in the mitogenic action of arginine vasopressin in cultured rat glomerular mesangial cells. Kusaka I, et al. **Endocrinology** 1996 Dec;137(12):5421–8
Decrease of bradykinin-induced glomerular contraction in diabetic rat: a new cellular interpretation. Ouardani M, et al. **Eur J Cell Biol** 1997 Jul;73(3):232–9
Adrenomedullin-sensitive receptors are preferentially expressed in cultured rat mesangial cells. Osajima A, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):319–25
Cellular protective action of angiotensin converting enzyme inhibitors. Tepel M, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:61–3
Mechanism of induction of prostaglandin E2 production by endothelin 1 in cultured rat mesangial cells. Fukunaga M, et al. **Exp Nephrol** 1996 Nov–Dec;4(6):340–9
Opposing effects of interleukin-1 and transforming growth factor-beta on the regulation of tissue-type plasminogen activator and plasminogen activator inhibitor type-1 expression by human mesangial cells. Wilson HM, et al. **Exp Nephrol** 1997 May–Jun;5(3):233–8
Interleukin 1 activates jun N-terminal kinases JNK1 and JNK2 but not extracellular regulated MAP kinase (ERK) in human glomerular mesangial cells. Uciechowski P, et al. **FEBS Lett** 1996 Oct 7;394(3):273–8
Inhibition of mesangial cell proliferation by platelet factor 4. Barnes JL, et al. **J Am Soc Nephrol** 1996 Jul;7(7):991–8
Antisense oligonucleotides to proliferating cell nuclear antigen and Ki-67 inhibit human mesangial cell proliferation. Maeshima Y, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2219–29
HDL causes mesangial cell mitogenesis through a tyrosine kinase-dependent receptor mechanism. Neverov NI, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1247–56
Antithrombin III inhibits mesangial cell proliferation. Pahl MV, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2249–53
Platelet-activating factor stimulates gene expression and synthesis of matrix proteins in cultured rat and human mesangial cells: role of TGF-beta. Ruiz-Ortega M, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1266–75
Rat mesangial cells and matrix metalloproteinase inhibitor: inhibition of 72-kD type IV collagenase (MMP-2) and of cell proliferation. Steinmann-Niggli K, et al. **J Am Soc Nephrol** 1997 Mar;8(3):395–405
Nitric oxide suppresses increases in mesangial cell protein kinase C, transforming growth factor beta, and fibronectin synthesis induced by thromboxane. Studer RK, et al. **J Am Soc Nephrol** 1996 Jul;7(7):999–1005
Reactive oxygen species induce apoptosis in cultured human mesangial cells. Sugiyama H, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2357–63
High glucose inhibits nitric oxide production in cultured rat mesangial cells. Trachtman H, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1276–82
Trapidil modifies mesangial cell proliferation and collagen accumulation in anti-thymocyte serum (ATS)-induced glomerulonephritis. Razzaque MS, et al. **J Comp Pathol** 1996 Feb;114(2):175–82
Effects of low density lipoprotein on cytosolic [Ca++] in cultured rat mesangial cells. Pahl MV, et al. **J Investig Med** 1996 Dec;44(9):556–60
Effects of silibinin and antioxidants on high glucose-induced alterations of fibronectin turnover in human mesangial cell cultures. Wenzel S, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1520–6
Insulin and angiotensin II are additive in stimulating TGF-beta 1 and matrix mRNAs in mesangial cells. Anderson PW, et al. **Kidney Int** 1996 Sep;50(3):745–53
Endothelin-1 activates c-Jun NH2-terminal kinase in mesangial cells. Araki S, et al. **Kidney Int** 1997 Mar; 51(3):631–9
Apoptosis in mesangial cells induced by ionizing radiation and cytotoxic drugs. Cha DR, et al. **Kidney Int** 1996 Nov; 50(5):1565–71
Bradykinin stimulates c-fos expression, AP-1-DNA binding activity and proliferation of rat glomerular mesangial cells. el-Dahr SS, et al. **Kidney Int** 1996 Dec;50(6):1850–5
Dual effect of lysophosphatidic acid on proliferation of glomerular mesangial cells. Gaits F, et al. **Kidney Int** 1997 Apr;51(4):1022–7
Anti-angiogenic compound (TNP-470) inhibits mesangial cell proliferation in vitro and in vivo. Haraguchi M, et al. **Kidney Int** 1997 Jun;51(6):1838–46
Dual effects of angiotensin II on the plasminogen/plasmin system in rat mesangial cells. Kagami S, et al. **Kidney Int** 1997 Mar;51(3):664–71
TGF-beta1-induced cell cycle arrest in renal mesangial cells involves inhibition of cyclin E-cdk 2 activation and retinoblastoma protein phosphorylation. Schoecklmann HO, et al. **Kidney Int** 1997 Apr;51(4):1228–36
Mesangial cell proliferation mediated by PDGF and bFGF is determined by levels of the cyclin kinase inhibitor p27Kip1. Shankland SJ, et al. **Kidney Int** 1997 Apr; 51(4):1088–99
Opposite, binary regulatory pathways involved in IL-1-mediated stromelysin gene expression in rat mesangial cells. Yokoo T, et al. **Kidney Int** 1996 Sep; 50(3):894–901
Prostaglandin E2 stimulates expression of matrix metalloproteinase 2 in cultured rat mesangial cells. Zahner G, et al. **Kidney Int** 1997 Apr;51(4):1116–23
Treatment of experimental mesangioproliferative glomerulonephritis with non-anticoagulant heparin: therapeutic efficacy and safety. Burg M, et al. **Lab Invest** 1997 Apr;76(4):505–16
Interleukin-10 is a mesangial cell growth factor in vitro and in vivo. Chadban SJ, et al. **Lab Invest** 1997 May; 76(5):619–27
Anti-mitogenic effects of sarpogrelate in cultured rat mesangial cells. Eto Y, et al. **Life Sci** 1997;60(11):PL193–9
Protective effect of D-alpha-tocopherol on the function of human mesangial cells exposed to high glucose concentrations. Tada H, et al. **Metabolism** 1997 Jul; 46(7):779–84
High glucose reduces generation of plasmin activity by mesangial cells. Fisher EJ, et al. **Microvasc Res** 1997 Mar; 53(2):173–8
Mechanisms of serotonin-induced Ca2+ responses in mesangial cells. Goppelt-Struebe M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):240–7
Angiotensin II requires PDGF-BB to induce DNA synthesis in rat mesangial cells cultured in an exogenous insulin-free medium. Higueruelo S, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):694–700
Morphological and morphometric changes in mesothelial cells during peritoneal dialysis in the rabbit. Di Paolo N, et al. **Nephron** 1996;74(3):594–9
Effect of beraprost sodium, a PGI2 analogue, on proliferation of cultured rat glomerular mesangial cells [letter] Makita Y, et al. **Nephron** 1996;74(1):228
Inhibitory effect of adrenomedullin on rat mesangial cell mitogenesis. Segawa K, et al. **Nephron** 1996;74(3):577–9
Morphine modulates mesangial immunoglobulin G uptake in rats with antithymocyte serum-induced mesangial cell injury. Singhal PC, et al. **Nephron** 1996;74(1):197–203
HIV-1 gp160 envelope protein modulates proliferation and apoptosis in mesangial cells. Singhal PC, et al. **Nephron** 1997;76(3):284–95
Quantitative reverse transcription polymerase chain reaction shows that ethanol enhances interleukin-6 mRNA expression in cultured mesangial cells. Meleg-Smith S, et al. **Pathobiology** 1995;63(5):265–9
Effect of triiodothyronine on nitric oxide production in mesangial cells and renal tubular epithelial cells. Trachtman H, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul; 93(1):69–78
Reactive oxygen species mediate the effects of cyclosporine A on human cultured mesangial cells. Pérez de Lema G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1241–3

ENZYMOLOGY

Amplification of nitric oxide synthase expression by nitric oxide in interleukin 1beta-stimulated rat mesangial cells. Mühl H, et al. **Adv Exp Med Biol** 1996;387:199–202
Apoptosis and expression of inducible nitric oxide synthase are mutually exclusive in renal mesangial cells. Nitsch DD, et al. **Am J Pathol** 1997 Mar;150(3):889–900
Angiotensin I-converting enzyme activity in tubular fluid along the rat nephron. Casarini DE, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F405–9
Plasma membrane calcium ATPase isoform expression in cultured rat mesangial cells. Rouse D, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F76–83
Interleukin-1 beta activates PI 3-kinase in renal mesangial cells. Donaldson A, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):289–93
Modulation of neutral protease expression in human mesangial cells by hyperglycaemic culture. Abdel Wahab N, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):777–83
Interleukin 1 beta and cAMP trigger the expression of GTP cyclohydrolase I in rat renal mesangial cells. Plüss C, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):665–71
Half-life of interleukin-1 beta-induced group II phospholipase A2 in rat mesangial cells. Vervoordeldonk MJ, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):315–22
Inhibition by tetranactin of interleukin 1 beta- and cyclic AMP-induced nitric oxide synthase expression in rat renal mesangial cells. Kunz D, et al. **Br J Pharmacol** 1996 Aug; 118(7):1621–6
Thy-1 molecule associates with protein tyrosine kinase(s) in rat mesangial cells. Narisawa-Saito M, et al. **Clin Exp Immunol** 1996 Oct;106(1):86–90
Endothelin-induced activation of mitogen-activated protein kinases in glomerular mesangial cells from normotensive and stroke-prone spontaneously hypertensive rats. Kishimoto I, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S207–8
Simulated glomerular pressure modulates mesangial cell 72 kDa metalloproteinase activity. Singhal PC, et al. **Connect Tissue Res** 1996;33(4):257–63
Tetranactin inhibits interleukin 1 beta and cAMP induction of group II phospholipase A2 in rat renal mesangial cells. Walker G, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1–3):265–70
Phospholipase A2 in mesangial cells: control mechanisms and functional importance. Pfeilschifter J, et al. **Exp Nephrol** 1997 May–Jun;5(3):189–93 (30 ref.)
Heat-aggregated IgG and interleukin-1-beta stimulate manganese superoxide dismutase in mesangial cells. Stephanz GB, et al. **Exp Nephrol** 1996 May–Jun;4(3):151–8
Aspirin inhibits expression of the interleukin-1beta-inducible group II phospholipase A2. Vervoordeldonk MJ, et al. **FEBS Lett** 1996 Nov 11;397(1):108–12
Differential regulation of the dual-specificity protein-tyrosine phosphatases CL100, B23, and PAC1 in mesangial cells. Bokemeyer D, et al. **J Am Soc Nephrol** 1997 Jan;8(1):40–50
Regulatory functions of protein kinase C isoenzymes in purinoceptor signalling in mesangial cells. Pfeilschifter J, et al. **J Auton Pharmacol** 1996 Dec;16(6):315–8
Interleukin-1beta induction of mitogen-activated protein kinases in human mesangial cells. Role of oxidation. Wilmer WA, et al. **J Biol Chem** 1997 Apr 18;272(16):10877–81
Tumor necrosis factor alpha and interleukin 1beta enhance the cortisone/cortisol shuttle. Escher G, et al. **J Exp Med** 1997 Jul 21;186(2):189–98
Modulation of phospholipase D stimulation in c-src transfected mesangial cells. Reiser CO, et al. **J Lipid Mediat Cell Signal** 1997 Jan;15(2):193–202
Endothelin-1 activates c-Jun NH2-terminal kinase in mesangial cells. Araki S, et al. **Kidney Int** 1997 Mar; 51(3):631–9
PDGF stimulates tyrosine phosphorylation of JAK 1 protein tyrosine kinase in human mesangial cells. Choudhury GG, et al. **Kidney Int** 1996 Jan;49(1):19–25
Regulation of platelet-derived growth factor isoform-mediated expression of prostaglandin G/H synthase in mesangial cells. Goppelt-Struebe M, et al. **Kidney Int** 1996 Jul;50(1):71–8
Differential inhibition of mesangial MAP kinase cascade by cyclic nucleotides. Haneda M, et al. **Kidney Int** 1996 Aug; 50(2):384–91
pp60c-src is required for the induction of a quiescent mesangial cell phenotype. Marx M, et al. **Kidney Int** 1997 Jan;51(1):110–8
Opposite, binary regulatory pathways involved in IL-1-mediated stromelysin gene expression in rat mesangial cells. Yokoo T, et al. **Kidney Int** 1996 Sep; 50(3):894–901
Endothelin-1 inhibits induction of nitric oxide synthase and GTP cyclohydrolase I in rat mesangial cells. Hirahashi J, et al. **Pharmacology** 1996 Oct;53(4):241–9

GROWTH & DEVELOPMENT

Factors controlling growth and matrix production in vascular smooth muscle and glomerular mesangial cells. Dubey RK, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):88–105 (170 ref.)
The hepatocyte growth factor/scatter factor (HGF/SF) receptor, met, transduces a morphogenetic signal in renal glomerular fibromuscular mesangial cells. Kolatsi-Joannou M, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3703–14

GLOMERULAR MESANGIUM

IMMUNOLOGY

Effect of enalapril therapy on glomerular accumulation of immune complexes and mesangial matrix in experimental glomerulonephritis in the nonhuman primate. Hebert LA, et al. **Am J Kidney Dis** 1997 Aug;30(2):243–52

Thy-1 molecule associates with protein tyrosine kinase(s) in rat mesangial cells. Narisawa-Saito M, et al. **Clin Exp Immunol** 1996 Oct;106(1):86–90

A specific Thy-1 molecular epitope expressed on rat mesangial cells. Oite T, et al. **Exp Nephrol** 1996 Nov–Dec; 4(6):350–60

Circulating serum lectins of patients with IgA nephropathy stimulate IL-6 release from mesangial cells. Libetta C, et al. **J Am Soc Nephrol** 1997 Feb;8(2):208–13

Overexpression of Crry protects mesangial cells from complement-mediated injury. Nangaku M, et al. **J Am Soc Nephrol** 1997 Feb;8(2):223–33

Antigen–antibody complexes enhance the production of complement component C3 by human mesangial cells. Timmerman JJ, et al. **J Am Soc Nephrol** 1997 Aug; 8(8):1257–65

Interaction of IgA with Fc alpha receptors of human mesangial cells activates transcription factor nuclear factor-kappa B and induces expression and synthesis of monocyte chemoattractant protein-1, IL-8, and IFN-inducible protein 10. Duque N, et al. **J Immunol** 1997 Oct 1;159(7):3474–82

Receptors for immune complexes activate gene expression and synthesis of matrix proteins in cultured rat and human mesangial cells: role of TGF-beta. López-Armada MJ, et al. **J Immunol** 1996 Sep 1;157(5):2136–42

Effects of mixed leukocyte reaction, hydrocortisone and cyclosporine on expression of leukocyte adhesion molecules by endothelial and mesangial cells. Ihm CG, et al. **J Korean Med Sci** 1996 Dec;11(6):495–500

Glomerulonephritis with predominant paramesangial IgG deposition. Kano K, et al. **Pathol Int** 1996 Apr;46(4):306–9

[Renal lesions of rats induced by antibodies to cultured rat glomerular epithelial cells and mesangial cells] Tamura N, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):387–94 (Eng. Abstr.) **(Jpn)**

INJURIES

Overexpression of Crry protects mesangial cells from complement-mediated injury. Nangaku M, et al. **J Am Soc Nephrol** 1997 Feb;8(2):223–33

METABOLISM

The hyaluronan-binding adhesion molecule CD44: expression in normal and diseased kidneys and by cultured mesangial cells. Lesavre P, et al. **Adv Nephrol Necker Hosp** 1997;26:317–39

High glucose concentration induces the overexpression of transforming growth factor-beta through the activation of a platelet-derived growth factor loop in human mesangial cells. Di Paolo S, et al. **Am J Pathol** 1996 Dec; 149(6):2095–106

Dexamethasone upregulates ANP C-receptor protein in human mesangial cells without affecting mRNA. Ardaillou N, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F440–6

Hydrogen peroxide downregulates IL-1-driven mesangial iNOS activity: implications for glomerulonephritis. Jaimes EA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F721–8

High glucose-induced TGF-beta 1 regulates mesangial production of heparan sulfate proteoglycan. Kolm V, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F812–21

Primary structure of rat HGF receptor and induced expression in glomerular mesangial cells. Liu Y, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F679–88

Regulation of PDGF-beta receptor-operated Ca2+ channels by phospholipase C-gamma 1 in glomerular mesangial cells. Ma H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F994–1003

Overexpression of protein kinase C-zeta isoform increases cyclooxygenase-2 and inducible nitric oxide synthase. Miller BW, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C130–6

Interleukin-4 modulates collagen synthesis by human mesangial cells in a type-specific manner. Nakazato Y, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F447–53

Microlocalization and effects of adrenomedullin in nephron segments and in mesangial cells of the rat. Owada A, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F691–7

Stimulation of rat mesangial cell thromboxane A2 receptors inhibits particulate but not soluble guanylyl cyclase. Paul RV, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F31–8

Differential long-term regulation of MEK and of p42 MAPK in rat glomerular mesangial cells. Schramek H, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C40–8

Sustained ERK-2 activation in rat glomerular mesangial cells: differential regulation by protein phosphatases. Schramek H, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F423–32

Endothelin increases NO-dependent cGMP production in isolated glomeruli but not in mesangial cells. Tack I, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):F31–9

High glucose stimulates expression of p27Kip1 in cultured mouse mesangial cells: relationship to hypertrophy. Wolf G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F348–56

Dual regulation of IL-1 beta-mediated matrix metalloproteinase-9 expression in mesangial cells by NF-kappa B and AP-1. Yokoo T, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F123–30

Antioxidant PDTC induces stromelysin expression in mesangial cells via a tyrosine kinase-AP-1 pathway. Yokoo T, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F806–11

Identification of glucose-regulated genes in human mesangial cells by mRNA differential display. Holmes DI, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):179–84

Adenosine 3',5'-cyclic monophosphate mimics the inhibitory effect of high glucose on MAP kinase phosphorylation in rat mesangial cells. Matsuo H, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):746–54

Metal-catalyzed oxidation of extracellular matrix proteins disrupts integrin-mediated adhesion of mesangial cells. Mattana J, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):50–5

Osteopontin gene expression and protein synthesis in cultured rat mesangial cells. Nagasaki T, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):81–5

Gene transfer of interleukin-1 receptor antagonist into the renal glomerulus via a mesangial cell vector. Yokoo T, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):883–8

ATP-induced calcium mobilization in glomerular mesangial cells is mediated by P2U purinoceptor. Takeda M, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1193–200

Effect of matrix glycation on expression of type IV collagen, MMP-2, MMP-9 and TIMP-1 by human mesangial cells. Anderson SS, et al. **Cell Adhes Commun** 1996 Aug; 4(2):89–101

Utility of glomerular and tubular markers in establishing early renal involvement in type II diabetes mellitus. Bedir A, et al. **Clin Biochem** 1996 Aug;29(4):385–8

The 80-kD fibronectin fragment increases the production of fibronectin and tumour necrosis factor-alpha (TNF-alpha) in cultured mesangial cells. Lopez-Armada MJ, et al. **Clin Exp Immunol** 1997 Feb;107(2):398–403

Physiological role of large, Ca2+-activated K+ channels in human glomerular mesangial cells. Sansom SC, et al. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):76–82

Augmented expression of the endothelin-A receptor gene in cultured mesangial cells from stroke-prone spontaneously hypertensive rats. Hiraoka J, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S191–2

Effect of thrombin and PDGF on endothelin production in cultured mesangial cells derived from spontaneously hypertensive rats. Ikeda M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S197–8

Effect of lipids on glomerular fibrinolysis in vitro. Fujii Y, et al. **Contrib Nephrol** 1997;120:140–5

Central role of the transcription factor nuclear factor-kappa B in mesangial cell production of chemokines. Guijarro C, et al. **Contrib Nephrol** 1997;120:210–8 (36 ref.)

Regulation of mesangial cell proliferation by the mevalonate pathway. Massy ZA, et al. **Contrib Nephrol** 1997;120:191–6 (21 ref.)

Modulation of IL-1-induced chemokine expression in human mesangial cells through alterations in redox status. Rovin BH, et al. **Cytokine** 1997 Mar;9(3):178–86

Nitric oxide inhibition of transforming growth factor-beta and collagen synthesis in mesangial cells. Craven PA, et al. **Diabetes** 1997 Apr;46(4):671–81

D-glucose stimulates mesangial cell GLUT1 expression and basal and IGF-1-sensitive glucose uptake in rat mesangial cells: implications for diabetic nephropathy. Heilig CW, et al. **Diabetes** 1997 Jun;46(6):1030–9

High glucose inhibits effect of ascorbic acid on [35S] sulphate incorporation in mesangial cell and matrix proteoglycan. McAuliffe AV, et al. **Diabetes Res Clin Pract** 1997 Aug; 37(2):101–8

High glucose level inhibits capacitative Ca2+ influx in cultured rat mesangial cells by a protein kinase C-dependent mechanism. Menè P, et al. **Diabetologia** 1997 May;40(5):521–7

Regulatory role of eicosanoids in extracellular matrix overproduction induced by long-term exposure to high glucose in cultured rat mesangial cells. Pricci F, et al. **Diabetologia** 1996 Sep;39(9):1055–62

Increased activity of the insulin-like growth factor system in mesangial cells cultured in high glucose conditions. Relation to glucose-enhanced extracellular matrix production. Pugliese G, et al. **Diabetologia** 1996 Jul; 39(7):775–84

The activation of phospholipase D participates in the mitogenic action of arginine vasopressin in cultured rat glomerular mesangial cells. Kusaka I, et al. **Endocrinology** 1996 Dec;137(12):5421–8

Diadenosine polyphosphates induce transplasma membrane calcium influx in cultured glomerular mesangial cells. Tepel M, et al. **Eur J Clin Invest** 1996 Dec;26(12):1077–84

Mechanism of induction of prostaglandin E2 production by endothelin 1 in cultured rat mesangial cells. Fukunaga M, et al. **Exp Nephrol** 1996 Nov–Dec;4(6):340–9

Heparin-binding epidermal growth factor-like growth factor, an immediate-early gene for mesangial cells, is up-regulated in the Thy-1.1 model. Polihronis M, et al. **Exp Nephrol** 1996 Sep–Oct;4(5):271–8

Opposing effects of interleukin-1 and transforming growth factor-beta on the regulation of tissue-type plasminogen activator and plasminogen activator inhibitor type-1 expression by human mesangial cells. Wilson HM, et al. **Exp Nephrol** 1997 May–Jun;5(3):233–8

The action of the peptidoleukotriene LTD4 on intracellular calcium in rat mesangial cells. Ochsner M. **Experientia** 1996 Sep 15;52(9):856–64

Cloning and sequencing of the proximal promoter of the rat iNOS gene: activation of NFkappaB is not sufficient for transcription of the iNOS gene in rat mesangial cells. Beck KF, et al. **FEBS Lett** 1996 Oct 7;394(3):263–7

Effect of adenosine on phorbol myristate acetate induced-reactive oxygen metabolite production in cultured mesangial cells. Nosaka K, et al. **Free Radic Biol Med** 1996; 20(1):151–5

Oxidant/antioxidant balance in isolated glomeruli and cultured mesangial cells. Ruiz-Torres P, et al. **Free Radic Biol Med** 1997;22(1–2):49–56

Adenovirus-mediated gene transfer into kidney glomeruli using an ex vivo and in vivo kidney perfusion system – first steps towards gene therapy of Alport syndrome. Heikkila P, et al. **Gene Ther** 1996 Jan;3(1):21–7

Glomerular-specific imprinting of the mouse gsalpha gene: how does this relate to hormone resistance in albright hereditary osteodystrophy? Williamson CM, et al. **Genomics** 1996 Sep 1;36(2):280–7

Tamm-Horsfall glycoprotein (THG) is a binder for surface membrane proteins on blood cells and glomerular mesangial cells. Yu CL, et al. **Immunopharmacology** 1997 Jan; 35(3):237–45

Extracellular matrix distribution and hillock formation in human mesangial cells in culture without serum. Glass WF 2nd, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2230–43

Nitric oxide inhibits intracellular adhesion molecule-1 expression in rat mesangial cells. Ikeda M, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2213–8

Thrombin increases clusterin mRNA in glomerular epithelial and mesangial cells. Laping NJ, et al. **J Am Soc Nephrol** 1997 Jun;8(6):906–14

Regulation of capacitative calcium influx in cultured human mesangial cells: roles of protein kinase C and calmodulin. Menè P, et al. **J Am Soc Nephrol** 1996 Jul;7(7):983–90

De novo CD44 expression by proliferating mesangial cells in rat anti-Thy-1 nephritis. Nikolic-Paterson DJ, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1006–14

Role of tumor necrosis factor-alpha on mesangial cell MCP-1 expression and monocyte migration: mechanisms mediated by signal transduction. Pai R, et al. **J Am Soc Nephrol** 1996 Jun;7(6):914–23

High glucose level unmasks a genetic predisposition to enhanced extracellular matrix production in mesangial cells from the Milan normotensive strain. Pugliese G, et al. **J Am Soc Nephrol** 1997 Mar;8(3):406–14

Platelet-activating factor stimulates gene expression and synthesis of matrix proteins in cultured rat and human mesangial cells: role of TGF-beta. Ruiz-Ortega M, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1266–75

Glomerular expression of tissue inhibitor of metalloproteinase (TIMP-1) in normal and diabetic rats. Shankland SJ, et al. **J Am Soc Nephrol** 1996 Jan;7(1):97–104

High glucose inhibits nitric oxide production in cultured rat mesangial cells. Trachtman H, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1276–82

Both IgG- and C1q-receptors play a role in the enhanced binding of IgG complexes to human mesangial cells. van den Dobbelsteen ME, et al. **J Am Soc Nephrol** 1996 Apr; 7(4):573–81

Differential effects of angiotensin II and transforming growth factor beta on the production of heparan sulfate proteoglycan by mesangial cells in vitro. van Det NF, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1015–23

Extracellular nucleotides as signalling molecules for renal mesangial cells. Schulze-Lohoff E, et al. **J Auton Pharmacol** 1996 Dec;16(6):381–4 (16 ref.)

Glomerular mesangial cell-specific transactivation of matrix metalloproteinase 2 transcription is mediated by YB-1. Mertens PR, et al. **J Biol Chem** 1997 Sep 5; 272(36):22905–12

Transforming growth factor-beta1 inhibits type I inositol 1,4,5-trisphosphate receptor expression and enhances its phosphorylation in mesangial cells. Sharma K, et al. **J Biol Chem** 1997 Jun 6;272(23):14617–23

Increased expression of extracellular matrix proteins and decreased expression of matrix proteases after serial passage of glomerular mesangial cells. Schnaper HW, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2521–8

Receptors for immune complexes activate gene expression and synthesis of matrix proteins in cultured rat and human mesangial cells: role of TGF-beta. López-Armada MJ, et al. **J Immunol** 1996 Sep 1;157(5):2136–42

Effects of low density lipoprotein on cytosolic [Ca++] in cultured rat mesangial cells. Pahl MV, et al. **J Investig Med** 1996 Dec;44(9):556–60

Oxidized low-density lipoprotein stimulates endothelin-1 release and mRNA expression from rat mesangial cells. Tan MS, et al. **J Lab Clin Med** 1997 Feb;129(2):224–30

Mesangial cell-matrix interactions in glomerular inflammation. Schoecklmann HO, et al. **Kidney Blood Press Res** 1996;19(3–4):184–90 (40 ref.)

Production of hyaluronan by glomerular mesangial cells in response to fibronectin and platelet-derived growth factor. Dunlop ME, et al. **Kidney Int** 1996 Jul;50(1):40–4

Oxidative stress induces tyrosine phosphorylation of PDGF alpha-and beta-receptors and pp60c-src in mesangial cells. González-Rubio M, et al. **Kidney Int** 1996 Jul;50(1):164–73

Effect of reactive oxygen species on endothelin-1 production by human mesangial cells. Hughes AK, et al. **Kidney Int** 1996 Jan;49(1):181–9

Dual effects of angiotensin II on the plasminogen/plasmin system in rat mesangial cells. Kagami S, et al. **Kidney Int** 1997 Mar;51(3):664–71

Involvement of oxidation in LDL-induced collagen gene regulation in mesangial cells. Lee HS, et al. **Kidney Int** 1996 Nov;50(5):1582–90

Specific receptor binding of renin on human mesangial cells in culture increases plasminogen activator inhibitor–1 antigen. Nguyen G, et al. **Kidney Int** 1996 Dec; 50(6):1897–903

Thrombomodulin is synthesized by human mesangial cells. Pruna A, et al. **Kidney Int** 1997 Mar;51(3):687–93

Expression of the transcriptional regulator Egr–1 in experimental glomerulonephritis: requirement for mesangial cell proliferation. Rupprecht HD, et al. **Kidney Int** 1997 Mar;51(3):694–702

Mesangial cell proliferation mediated by PDGF and bFGF is determined by levels of the cyclin kinase inhibitor p27Kip1. Shankland SJ, et al. **Kidney Int** 1997 Apr; 51(4):1088–99

Inhibition of mitogenesis and c–fos induction in mesangial cells by heparin and heparan sulfates. Wang A, et al. **Kidney Int** 1996 Feb;49(2):437–48

Prostaglandin E2 stimulates expression of matrix metalloproteinase 2 in cultured rat mesangial cells. Zahner G, et al. **Kidney Int** 1997 Apr;51(4):1116–23

Mesangial cell actin disassembly in high glucose mediated by protein kinase C and the polyol pathway. Zhou X, et al. **Kidney Int** 1997 Jun;51(6):1797–808

Mesangial cells from transgenic mice with progressive glomerulosclerosis exhibit stable, phenotypic changes including undetectable MMP–9 and increased type IV collagen. Jacot TA, et al. **Lab Invest** 1996 Dec;75(6):791–9

Binding of [3H]–P1075, an opener of ATP–sensitive K+ channels, to rat glomerular preparations. Metzger F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):452–9

Effect of glucose and heparin on mesangial alpha 1(IV)COLL and MMP–2/TIMP–2 mRNA expression. Caenazzo C, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):443–8

Lovastatin inhibits lipopolysaccharide–induced NF–kappaB activation in human mesangial cells. Guijarro C, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):990–6

Angiotensin II requires PDGF–BB to induce DNA synthesis in rat mesangial cells cultured in an exogenous insulin–free medium. Higueruelo S, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):694–700

Enalaprilat inhibits hydrogen peroxide production by murine mesangial cells exposed to high glucose concentrations. Ruiz–Muñoz LM, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):456–64

Thrombin stimulates production of transforming growth factor–beta by cultured human mesangial cells. Yamabe H, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):438–42

Childhood IgM nephropathy: comparison with minimal change disease. Al–Eisa A, et al. **Nephron** 1996;72(1):37–43

Modulation by angiotensin II of endothelial cell control of DNA synthesis in human mesangial cells. Essig M, et al. **Nephron** 1997;75(3):303–9

Effect of endothelin 1 on fibrinolysis and plasminogen activator inhibitor 1 synthesis in rat mesangial cells. Iwamoto T, et al. **Nephron** 1996;73(2):273–9

VLDL and LDL metabolism in human and rat mesangial cells. Krämer–Guth A, et al. **Nephron** 1996;74(2):378–85

Intermediate–density lipoprotein is a DNA synthesis stimulation factor in cultured human mesangial cells [letter] Nishida Y, et al. **Nephron** 1996;73(2):334–5

Quantitative reverse transcription polymerase chain reaction shows that ethanol enhances interleukin–6 mRNA expression in cultured mesangial cells. Meleg–Smith S, et al. **Pathobiology** 1995;63(5):265–9

Insulin restores the calcium–activated chloride conductance in dedifferentiated renal glomerular mesangial cells from the H–2KB–TSA58 [corrected] transgenic mouse [published erratum appears in Pflugers Arch 1996 Oct;432(6):1097] Barber RD, et al. **Pflugers Arch** 1996 Aug; 432(4):749–51

Comparative effects of pravastatin–induced DNA synthesis on serum–stimulated synchronized and proliferative rat mesangial cells. Higueruelo S, et al. **Pharmacol Res** 1996 Sep–Oct;34(3–4):117–20

Somatostatin expression in human renal cortex and mesangial cells. Turman MA, et al. **Regul Pept** 1997 Jan 15; 68(1):15–21

P2U–purinergic receptor activation mediates inhibition of cAMP accumulation in cultured renal mesangial cells. Schulze–Lohoff E, et al. **Ren Physiol Biochem** 1995 Sep–Oct;18(5):219–30

Renal tubular epithelial cell–E. coli interaction products stimulate nitric oxide production in cultured rat renal medullary interstitial and mesangial cells. Trachtman H, et al. **Res Commun Mol Pathol Pharmacol** 1996 Dec; 94(3):227–38

Tissue factor pathway inhibitor production by human mesangial cells in culture. Yamabe H, et al. **Thromb Haemost** 1996 Aug;76(2):215–9

[Regulative effects of cytokines on the expression of cell adhesion molecules on human mesangial cells] Yang B, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jun;76(6):416–9 (Eng. Abstr.) **(Chi)**

[Studies on type IV collagen production in cultured mesangial cells] Sawada T, et al. **Nippon Jinzo Gakkai Shi** 1996 Nov;38(11):469–74 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Effect of enalapril therapy on glomerular accumulation of immune complexes and mesangial matrix in experimental glomerulonephritis in the nonhuman primate. Hebert LA, et al. **Am J Kidney Dis** 1997 Aug;30(2):243–52

High glucose concentration induces the overexpression of transforming growth factor–beta through the activation of a platelet–derived growth factor loop in human mesangial cells. Di Paolo S, et al. **Am J Pathol** 1996 Dec; 149(6):2095–106

Role of interleukin–1 in mesangial cell proliferation and matrix deposition in experimental mesangioproliferative nephritis. Tesch GH, et al. **Am J Pathol** 1997 Jul; 151(1):141–50

Therapeutic effect of cytomedicine on mesangio–proliferative glomerulonephritis in human interleukin–6 transgenic mice. Okada N, et al. **Biol Pharm Bull** 1997 Mar;20(3):255–8

Decrease of mesangial matrix after immunosuppressive therapy in children with reversible membranoproliferative glomerulonephritis type I. Inaba S, et al. **Clin Nephrol** 1996 Apr;45(4):217–25

HMG–CoA reductase inhibitor suppression of glomerular cell proliferation in rats with anti–Thy–1.1 nephritis. Nabeshima K, et al. **Contrib Nephrol** 1997;120:153–9

Patterns of renal injury in NIDDM patients with microalbuminuria. Fioretto P, et al. **Diabetologia** 1996 Dec; 39(12):1569–76

Extraglomerular origin of the mesangial cell after injury. A new role of the juxtaglomerular apparatus. Hugo C, et al. **J Clin Invest** 1997 Aug 15;100(4):786–94

IL–1beta depresses expression of the 70–kilodalton heat shock protein and sensitizes glomerular cells to oxidant–initiated apoptosis. Yokoo T, et al. **J Immunol** 1997 Sep 15; 159(6):2886–92

Suppression of mesangial–cell proliferation by trapidil in glomerulonephritis induced by anti–thymocyte serum in rats. Razzaque MS, et al. **J Int Med Res** 1995 Nov–Dec; 23(6):458–66

Quantitative analysis of glomeruli lesions in patients with mesangial proliferative glomerulonephritis. Sun J, et al. **J Tongji Med Univ** 1996;16(2):106–10

Anti–angiogenic compound (TNP–470) inhibits mesangial cell proliferation in vitro and in vivo. Haraguchi M, et al. **Kidney Int** 1997 Jun;51(6):1838–46

Efficient morphometric analysis of glomerular mesangium in insulin–dependent diabetic patients with early nephropathy. The European Study of the Progression of Renal Disease in Type 1 (Insulin Dependent) Diabetes (ESPRIT) Study Group. MacLeod JM, et al. **Kidney Int** 1997 May;51(5):1624–8

Adhesion of U–937 monocytes induces cytotoxic damage and subsequent proliferation of cultured human mesangial cells. Mené P, et al. **Kidney Int** 1996 Aug;50(2):417–23

Transfected CD59 protects mesangial cells from injury induced by antibody and complement. Nangaku M, et al. **Kidney Int** 1996 Jul;50(1):257–66

Expression of the transcriptional regulator Egr–1 in experimental glomerulonephritis: requirement for mesangial cell proliferation. Rupprecht HD, et al. **Kidney Int** 1997 Mar;51(3):694–702

Morphine–induced macrophage activity modulates mesangial cell proliferation and matrix synthesis. Singhal PC, et al. **Kidney Int** 1996 Jan;49(1):94–102

IgA nephropathy with poorly developed lymphoepithelial symbiosis of the palatine tonsils. Sato Y, et al. **Nephron** ;996;74(2):301–8

Escherichia coli–macrophage interactions modulate mesangial cell proliferation and matrix synthesis. Sharma S, et al. **Nephron** 1996;73(4):587–96

HIV–1 gp160 envelope protein modulates proliferation and apoptosis in mesangial cells. Singhal PC, et al. **Nephron** 1997;76(3):284–95

Glomerulonephritis with predominant paramesangial IgG deposition. Kano K, et al. **Pathol Int** 1996 Apr;46(4):306–9

Hypoplastic tubules occurring in diffuse mesangial sclerosis [letter] Shimamura T, et al. **Pathol Int** 1996 Nov; 46(11):904–6

Growth hormone and insulin–like growth factor–I and mesangial matrix in uremic rats. Lin JJ, et al. **Pediatr Nephrol** 1996 Jun;10(3):299–303

Congenital nephrotic syndrome, diffuse mesangial sclerosis, and bilateral cataract. Zeis PM, et al. **Pediatr Nephrol** 1996 Dec;10(6):732–3

Biology of the mesangial cell in glomerulonephritis--role of cytokines. Ooi BS, et al. **Proc Soc Exp Biol Med** 1996 Dec; 213(3):230–7 (59 ref.)

The effects of high glucose concentration on angiotensin II– or transforming growth factor–beta–induced DNA synthesis, hypertrophy and collagen synthesis in cultured rat mesangial cells. Choi KH, et al. **Yonsei Med J** 1996 Oct;37(5):302–11

[Inhibitory effect of interleukin–10 on inflammatory reaction in rat mesangial cells] Dai Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jun;76(6):407–10 (Eng. Abstr.) **(Chi)**

[Egr–1 transcription factor regulates the growth of glomerular mesangium cells] Rupprecht HD, et al. **Med Klin** 1997 Feb 15;92(2):68–73 (Eng. Abstr.) **(Ger)**

[Expression of FGF2, FGF receptor–1 and alpha–smooth muscle actin in experimental mesangial proliferative nephritis] Jyo Y. **Nippon Jinzo Gakkai Shi** 1996 Dec; 38(12):545–54 (Eng. Abstr.) **(Jpn)**

[Mesangial proliferative glomerulonephritis] Kaneko O, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):215–8 (15 ref.) **(Jpn)**

PHYSIOLOGY

Effect of lipoproteins on cultured human mesangial cells. Nishida Y, et al. **Am J Kidney Dis** 1997 Jun;29(6):919–30

Regulation of filtration rate by glomerular mesangial cells in health and diabetic renal disease. Stockand JD, et al. **Am J Kidney Dis** 1997 Jun;29(6):971–81 (114 ref.)

Evidence for the distinct nature of F2–isoprostane receptors from those of thromboxane A2. Fukunaga M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):F477–83

UTP and ATP induce different membrane voltage responses in rat mesangial cells. Huber–Lang M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F704–11

Differentiated phenotype of glomerular mesangial cells in nodular culture. Kitamura M, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):F614–22

Role of Rho and myosin phosphorylation in actin stress fiber assembly in mesangial cells. Kreisberg JI, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):F283–8

Involvement of phospholipase A2 in gentamicin–induced rat mesangial cell activation. Martínez–Salgado C, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F60–6

cAMP mediates homologous downregulation of PAF receptor mRNA expression in mesangial cells. Nakao A, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F445–50

Mechanism of activation by cGMP–dependent protein kinase of large Ca(2+)–activated K+ channels in mesangial cells. Stockand JD, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1669–77

Immunoglobulin light chain alters mesangial cell calcium homeostasis. Zhu L, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F319–24

Mesangial cell culture: its role in the understanding of the pathogenesis of glomerular disease. Lee GS. **Ann Acad Med Singapore** 1995 Nov;24(6):851–5 (41 ref.)

Calcium and calcium–related signalling pathways in glomerular mesangial cells. Bonventre JV. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):65–70 (34 ref.)

Role of mesangial cells in macula densa to afferent arteriole information transfer. Goligorsky MS, et al. **Clin Exp Pharmacol Physiol** 1997 Jul;24(7):527–31 (44 ref.)

Regulation of rat kidney mesangial cell phospholipase A2. Hack N, et al. **Clin Exp Pharmacol Physiol** 1996 Jan; 23(1):71–5 (46 ref.)

Transforming growth factor–beta (TGF–beta) stimulates the expression of beta1 integrins and adhesion by rat mesangial cells. Kagami S, et al. **Exp Cell Res** 1996 Nov 25;229(1):1–6

Regulation of extracellular matrix by mechanical stress in rat glomerular mesangial cells. Yasuda T, et al. **J Clin Invest** 1996 Nov 1;98(9):1991–2000

Human glomerular mesangial cell phagocytosis of apoptotic neutrophils: mediation by a novel CD36–independent vitronectin receptor/thrombospondin recognition mechanism that is uncoupled from chemokine secretion. Hughes J, et al. **J Immunol** 1997 May 1;158(9):4389–97

Role of alpha v integrins in mesangial cell adhesion to vitronectin and von Willebrand factor. Hafdi Z, et al. **Kidney Int** 1997 Jun;51(6):1900–7

Tyrosine kinase dependent expression of TGF–beta induced by stretch in mesangial cells. Hirakata M, et al. **Kidney Int** 1997 Apr;51(4):1028–36

Roles of the mesangium in glomerular function. Schlöndorff D. **Kidney Int** 1996 Jun;49(6):1583–5 (28 ref.)

Mesangial cell–derived transforming growth factor–beta 1 reduces macrophage adhesiveness with consequent deactivation. Sütö TS, et al. **Kidney Int** 1996 Aug; 50(2):445–52

Voltage–insensitive Ca2+ channels and Ca2+/calmodulin–dependent protein kinases propagate signals from endothelin–1 receptors to the c–fos promoter. Wang Y, et al. **Mol Cell Biol** 1996 Oct;16(10):5915–23

Excitatory synapses in the glomerular triad of frog olfactory bulb in vitro. Bardoni R, et al. **Neuroreport** 1996 Jul 29; 7(11):1851–5

Glomerular synaptic responses to olfactory nerve input in rat olfactory bulb slices. Aroniadou–Anderjaska V, et al. **Neuroscience** 1997 Jul;79(2):425–34

[Concise information on the structure and function of intraglomerular mesangia] Trávníčková E. **Cesk Fysiol** 1996 Sep;45(3):164–7 (21 ref.) (Eng. Abstr.) **(Cze)**

PHYSIOPATHOLOGY

Patterns of renal injury in NIDDM patients with microalbuminuria. Fioretto P, et al. **Diabetologia** 1996 Dec; 39(12):1569–76

Autoregulation of total and zonal glomerular filtration rate in spontaneously hypertensive rats with mesangiolysis. Wang X, et al. **Kidney Blood Press Res** 1997;20(1):11–7

TGF and nitric oxide: effects of salt intake and salt–sensitive hypertension. Wilcox CS, et al. **Kidney Int Suppl** 1996 Jun; 55:S9–13

RADIATION EFFECTS

Apoptosis in mesangial cells induced by ionizing radiation

GLOMERULAR MESANGIUM

and cytotoxic drugs. Cha DR, et al. **Kidney Int** 1996 Nov; 50(5):1565–71

ULTRASONOGRAPHY

Mesangioproliferative glomerulonephritis in a patient with hepatitis C virus infection and IgA deficiency [letter] Hironaka K, et al. **Nephron** 1997;76(2):222–4

ULTRASTRUCTURE

Stable cell lines of T-SV40 immortalized human glomerular mesangial cells. Sraer JD, et al. **Kidney Int** 1996 Jan; 49(1):267–70

GLOMERULONEPHRITIS

see related

KIDNEY FAILURE, CHRONIC

The presentation, treatment and outcome of acute glomerulonephritis in the elderly [letter] Wu ZL, et al. **Clin Nephrol** 1996 Apr;45(4):277–9

Glomerulonephritis in childhood. Pan CG. **Curr Opin Pediatr** 1997 Apr;9(2):154–9 (49 ref.)

Long-term clinical course in acute crescentic glomerulonephritis. Bach D, et al. **Int Urol Nephrol** 1996; 28(3):439–53

[Progress in the studies on traditional Chinese medicine syndrome differentiation of chronic glomerulonephritis with laboratory findings] Liu HW, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Feb; 16(2):126–8 (21 ref.) **(Chi)**

[Medical nephropathies: what has changed in 20 years] Cusinato S, et al. **Minerva Urol Nefrol** 1996 Sep; 48(3):129–35 (Eng. Abstr.) **(Ita)**

[Alveolar hemorrhage, skin eruption, and gastrointestinal bleeding accompanied by crescentric glomerulonephritis in a patient with cytoplasmic anti-neutrophil cytoplasmic antibody] Kishimoto N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):790–5 (Eng. Abstr.) **(Jpn)**

[Sclerosing glomerulonephritis] Fujimoto S, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):133–6 (20 ref.) **(Jpn)**

[Chronic glomerulonephritis (latent type, advanced type)] Sasaki T, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):211–4 (11 ref.) **(Jpn)**

[Extracapillary proliferative glomerulonephritis] Shiiki H, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):104–7 (18 ref.) **(Jpn)**

[Rapidly progressive glomerulonephritis (RPGN)] Ueno M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):124–7 (20 ref.) **(Jpn)**

BLOOD

Monitoring of endothelial leucocyte adhesion molecule-1 in anti-neutrophil-cytoplasmic-antibody-positive vasculitis. Yaqoob M, et al. **Am J Nephrol** 1996;16(2):106–13

Inappropriately high plasma renin activity accompanies chronic loss of renal function. Yeyati NL, et al. **Am J Nephrol** 1996;16(6):471–7

Circulating levels of cytokines in poststreptococcal glomerulonephritis. Soto HM, et al. **Clin Nephrol** 1997 Jan; 47(1):6–12

Lymphocyte responsiveness to glucocorticoids, cyclosporine, or both. Briggs WA, et al. **J Clin Pharmacol** 1996 Aug; 36(8):707–14

The relationship between insulin, glucose and serum uric acid and their contribution to the progression of renal damage in patients with primary glomerulonephritis. Manitius J, et al. **J Int Med Res** 1996 Nov-Dec;24(6):449–53

Anionic charge abnormalities of red blood cells and proteinuria in glomerulonephritides. Ramjee G, et al. **J Trop Pediatr** 1997 Aug;43(4):204–7

Different erythrocyte and platelet surface electric charge in various types of glomerulonephritis. Klinger M, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):707–12

Changes in serum concentrations of matrix metalloproteinases, tissue inhibitors of metalloproteinases and type IV collagen in patients with various types of glomerulonephritis. Akiyama K, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):115–28

[The dynamic surface tension of the blood and urine in chronic glomerulonephritis] Siniachenko OV, et al. **Lik Sprava** 1997 Jan-Feb;(1):48–51 (Eng. Abstr.) **(Rus)**

[Lipid peroxidation and the system of antioxidant protection in patients with chronic glomerulonephritis and normal kidney azoturic function] Riabov SI, et al. **Ter Arkh** 1995; 67(12):33–7 (Eng. Abstr.) **(Rus)**

[The characteristics of disorders in carbohydrate metabolism and insulin and C-peptide secretion in patients with chronic glomerulonephritis in developing chronic kidney failure] Trusov VV, et al. **Ter Arkh** 1996;68(6):21–4 (Eng. Abstr.) **(Rus)**

[The hemostatic system and thrombohemorrhagic complications during the hemosorption treatment of patients with chronic glomerulonephritis with nephrotic syndrome] Kolesnyk MO, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):78–80 (Eng. Abstr.) **(Ukr)**

[Thrombocyto- and coagulopathies in patients with diabetic glomerulosclerosis and chronic glomerulonephritis] Lapchyns'ka II, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):74–7 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED

Propylthiouracil-induced rapidly progressive glomerulonephritis associated with antineutrophil cytoplasmic autoantibodies. Kudoh Y, et al. **Clin Nephrol** 1997 Jul;48(1):41–3

Immune modulation with interleukin-4 and interleukin-10 prevents crescent formation and glomerular injury in experimental glomerulonephritis. Tipping PG, et al. **Eur J Immunol** 1997 Feb;27(2):530–7

Changes in glomerular epithelial cells induced by FGF2 and FGF2 neutralizing antibody in puromycin aminonucleoside nephropathy. Sasaki T, et al. **Kidney Int** 1997 Jan; 51(1):301–9

Antineutrophil cytoplasmic autoantibody-positive crescentic glomerulonephritis associated with thiamazole therapy [letter] Hori Y, et al. **Nephron** 1996;74(4):734–5

Antineutrophil cytoplasmic antibodies (ANCA)-associated crescentic glomerulonephritis and propylthiouracil therapy. Yuasa S, et al. **Nephron** 1996;73(4):701–3

Acute glomerulonephritis, Henoch-Schönlein purpura and dental amalgam in Swedish children: a case-control study. Herrström P, et al. **Sci Total Environ** 1996 Nov 22; 191(3):277–82

[Glomerular nephropathies and exposure to organic solvents—a case-control study] Stengel B, et al. **Bull Acad Natl Med** 1996 Apr;180(4):871–9; discussion 879–83 (Eng. Abstr.) **(Fre)**

[A case of Grave's disease with MPO-ANCA-associated glomerulonephritis during propylthiouracil (PTU) therapy following interstitial pneumonitis] Saeki T, et al. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):167–71 (15 ref.) (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Rapidly progressive glomerulonephritis. Bolton WK. **Semin Nephrol** 1996 Nov;16(6):517–26 (45 ref.)

[Progress in diagnosis and treatment of primary renal diseases. I. Primary glomerular diseases. 4. Crescentic glomerulonephritis] Kida H, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1645–9 (6 ref.) **(Jpn)**

[Primary and secondary glomerular diseases] Arakawa M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):128–32 (7 ref.) **(Jpn)**

[The importance of the clinical classification of chronic glomerulonephritis for the prognosis of its progression and of the efficacy of therapy] Ratner MIa, et al. **Ter Arkh** 1996;68(6):10–3 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Extracapillary glomerulonephritis and renal amyloidosis. Moroni G, et al. **Am J Kidney Dis** 1996 Nov;28(5):695–9

Immune complex glomerulonephritis in patients coinfected with human immunodeficiency virus and hepatitis C virus. Stokes MB, et al. **Am J Kidney Dis** 1997 Apr;29(4):514–25

Erythropoietin in the treatment of anaemia in a nephropathic pregnant woman. Case report. D'Anna R, et al. **Clin Exp Obstet Gynecol** 1996;23(4):252–4

Haematuria: glomerular or non-glomerular? Singbal R, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):281–6

Congestive cardiac failure and electrocardiographic abnormalities in acute glomerulonephritis. Banapurmath CR, et al. **Indian Pediatr** 1996 Jul;33(7):589–92

Churg-Strauss syndrome associated with necrotizing crescentic glomerulonephritis in a diabetic patient. Maeda Y, et al. **Intern Med** 1997 Jan;36(1):68–72

Nephrotic syndrome, renal failure, and renal malignancy: an unusual tumor-associated glomerulonephritis. Ahmed M, et al. **J Am Soc Nephrol** 1997 May;8(5):848–52

Ankylosing spondylitis with diverse renal outcome in two patients. Nithya S, et al. **J Assoc Physicians India** 1996 Oct;44(10):727–8

Glomerular inflammation induces resistance to tubular injury in the rat. A novel form of acquired, heme oxygenase-dependent resistance to renal injury. Vogt BA, et al. **J Clin Invest** 1996 Nov 1;98(9):2139–45

Cortical blindness as a complication of acute glomerulonephritis. Stallworth JR, et al. **J S C Med Assoc** 1997 Mar;93(3):99–101

A prospective study of the natural history of idiopathic non-proteinuric hematuria. Nieuwhof C, et al. **Kidney Int** 1996 Jan;49(1):222–5

Mesangial glomerulonephritis and transient SLE manifestations in an adolescent with dermatomyositis [letter] Picco P, et al. **Lupus** 1997;6(1):72–3

Fibrillary glomerulonephritis in a patient with adenocarcinoma of stomach. Amir-Ansari B, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):210–1

Renal failure in a patient with two renal diseases: renal amyloidosis and rapidly progressive glomerulonephritis. Andreu FJ, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):341–3

Crescentic glomerulonephritis with antineutrophil cytoplasmic antibodies associated with chronic lymphocytic leukaemia. Dussol B, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):785–6

Association of vasculitic glomerulonephritis with membranous nephropathy: a report of 10 cases. Tse WY, et al. **Nephrol Dial Transplant** 1997 May;12(5):1017–27 (39 ref.)

Histiocytosis X and glomerulonephritis: a case report [letter] Duranay M, et al. **Nephron** 1996;73(2):329–30

The frequencies of hepatitis B virus markers and hepatitis C virus antibody in patients with glomerulonephritis. Paydas S, et al. **Nephron** 1996;74(3):617–9

Hepatitis C virus seropositivity in glomerulonephritis patients [letter] Roccatello D, et al. **Nephron** 1997;76(3):355–6

Acute glomerulonephritis with zoster [letter] Rossetti A, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):643–4 (4 ref.)

Glomerulonephritis in children with Down syndrome [letter] Birk PE, et al. **Pediatr Nephrol** 1996 Aug;10(4):549

Brucella endocarditis associated with glomerulonephritis and renal vasculitis. Elzouki AY, et al. **Pediatr Nephrol** 1996 Dec;10(6):748–51

Haemolytic uraemic syndrome superimposed on acute glomerulonephritis [letter] Proesmans W. **Pediatr Nephrol** 1996 Oct;10(5):679

Blue toe syndrome associated with rapidly progressive glomerulonephritis: ultimately revealed essential mixed cryoglobulinemia. Fang JT, et al. **Ren Fail** 1997 Jan; 19(1):177–81

Renal dysfunction in glomerulonephropathy associated with rapid onset renal failure. Futrakul N, et al. **Ren Fail** 1997 Jan;19(1):77–84

[Clinical study on the effect of TCM treatment in decreasing frequency of peritoneal dialysis] Guo D, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Feb; 16(2):67–9 (Eng. Abstr.) **(Chi)**

[A case of fluminant septic shock due to Streptococcus agalactiae in a patient with MPO-ANCA related glomerulonephritis] Tanaka A, et al. **Kansenshogaku Zasshi** 1996 Nov;70(11):1186–9 (Eng. Abstr.) **(Jpn)**

[A case of crescentic glomerulonephritis with extensive hematuria resulting in severe anemia] Kodama K, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):22–6 (Eng. Abstr.) **(Jpn)**

[Chronic interstitial pneumonia and crescentic glomerulonephritis associated with perinuclear antineutrophil cytoplasmic antibodies] Matsuyama W, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 May; 35(5):555–60 (Eng. Abstr.) **(Jpn)**

[Interstitial pneumonia complicated by rapidly progressive glomerulonephritis associated with anti-myeloperoxydase antibody] Mitsui I, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Sep; 34(9):1015–20 (Eng. Abstr.) **(Jpn)**

[A case of rapid progressive glomerulonephritis with pulmonary hemorrhage] Furuichi K, et al. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1042–4 **(Jpn)**

[Case of p-ANCA-positive rapidly progressing glomerulonephritis requiring hemodialysis: effectiveness of anti-MPO antibody determiantion in predicting pulmonary hemorrhage] Matsuda T, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):675–7 **(Jpn)**

[Renal retinopathy] Okisaka S. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):24–6 (6 ref.) **(Jpn)**

[Fulminant course of glomerulonephritis with acute renal failure in a 63-year old man] Koniński P, et al. **Przegl Lek** 1995;52(9):477–9 (Eng. Abstr.) **(Pol)**

[Nitric oxide: its role in the development of pregnancy complications and in their prevention in women with hypertension and chronic glomerulonephritis] Zozulia OV, et al. **Ter Arkh** 1997;69(6):17–20 (Eng. Abstr.) **(Rus)**

[Microscopic polyarteritis] de Ancos Aracil C, et al. **An Med Interna** 1995 Sep;12(9):453–5 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Haematuria: glomerular or non-glomerular? Singbal R, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):281–6

Effect of diagnostic delay on disease severity and outcome in glomerulonephritis caused by anti-neutrophil cytoplasmic antibodies. Lal DP, et al. **J Clin Pathol** 1996 Nov;49(11):942–4

Is it refractory idiopathic thrombocytopenic purpura? [see comments] Cahill MR, et al. **Lancet** 1997 Apr 12; 349(9058):1066. Comment in: Lancet 1997 Jun 14;349(9067):1770–1.

Is it refractory idiopathic thrombocytopenic purpura? [letter; comment] Pintavorn P. **Lancet** 1997 Jun 14; 349(9067):1770–1. Comment on: Lancet 1997 Apr 12;349(9058):1066.

ANCA-positive rapidly progressive glomerulonephritis: there may be more to the diagnosis than you think! Messiaen T, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):839–41

Computerised expert system for the morphological diagnosis of the glomerulonephritis. Ptasekas R. **Pol J Pathol** 1997; 48(2):129–30

Characteristics and outcome of anti-glomerular basement membrane disease: a single-center experience. Daly C, et al. **Ren Fail** 1996 Jan;18(1):105–12

[Differentiation between glomerular and non-glomerular erythrocyturia: what is the value of differential microhematuria diagnosis?] Gerc V, et al. **Schweiz Rundsch Med Prax** 1997 Jul 30;86(31–32):1198–203 (28 ref.) (Eng. Abstr.) **(Fre)**

[Two patients with pulmonary hemorrhage associated with myeloperoxidase-antineutrophil cytoplasmic antibody]

Niho S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Jan;35(1):111–6 (Eng. Abstr.) **(Jpn)**

[Progress in treatment and diagnosis of renal diseases. I. Primary glomerular diseases. 2. Chronic glomerulonephritis] Nishi S, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1631–8 (10 ref.) **(Jpn)**

[Molecular biological diagnosis of glomerulonephritis] Yoshimura A. **Nippon Naika Gakkai Zasshi** 1996 Jul 10; 85(7):1165–70 (13 ref.) **(Jpn)**

[Acute glomerulonephritis] Nishiyama J, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):117–20 (12 ref.) **(Jpn)**

[Case of MPO–ANCA positive interstitial pneumonitis and necrotizing, crescentic glomerulonephritis] Chikaraishi A, et al. **Ryumachi** 1996 Dec;36(6):869–73 (Eng. Abstr.) **(Jpn)**

[Thrombocytic disorders in pregnant women with chronic glomerulonephritis and hypertension] Tareeva IE, et al. **Ter Arkh** 1996;68(10):52–5 (Eng. Abstr.) **(Rus)**

[Clinical and morphologic features in patients with acute nephritis syndrome] Mitić I, et al. **Srp Arh Celok Lek** 1996; 124 Suppl 1:58–60 (Eng. Abstr.) **(Scc)**

DRUG THERAPY

Effects of a prescription of Chinese herbal medicine on snake venom–induced nephropathy in mice. Sugimoto K, et al. **Biol Pharm Bull** 1996 Apr;19(4):587–92

Glomerulonephritis: roles for lipoxygenase pathways in pathophysiology and therapy. Badr KF. **Curr Opin Nephrol Hypertens** 1997 Mar;6(2):111–8 (75 ref.)

Butein (3,4,2',4'-tetrahydroxychalcone) ameliorates experimental anti–glomerular basement membrane antibody–associated glomerulonephritis (3). Hayashi K, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):297–306

Effect of DP–1904, a thromboxane A2 synthase inhibitor, on passive Heymann nephritis in rats. Nagao T, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):73–80

Passive Heymann nephritis: evidence that angiotensin–converting enzyme inhibition reduces proteinuria and retards renal structural injury. Zoja C, et al. **Exp Nephrol** 1996 Jul–Aug;4(4):213–21

Intervention of crescentic glomerulonephritis by antibodies to monocyte chemotactic and activating factor (MCAF/MCP–1). Wada T, et al. **FASEB J** 1996 Oct; 10(12):1418–25

Randomized controlled trial of ACE–inhibitors and beta–blockers with and without vasodilating activity in chronic glomerulonephritis. Erley CM, et al. **Int J Clin Pharmacol Ther** 1996 Nov;34(11):504–9

Effects of treatment with angiotensin–converting enzyme inhibitor (ACEI) or angiotensin II receptor antagonist (AIIRA) on renal function and glomerular injury in subtotal nephrectomized rats. Yamamoto M, et al. **J Clin Lab Anal** 1997;11(1):53–62

Butein ameliorates experimental anti–glomerular basement membrane (GBM) antibody–associated glomerulonephritis in rats (1). Hayashi K, et al. **Jpn J Pharmacol** 1996 Jan; 70(1):55–64

Modulation of anti–glomerular basement membrane nephritis in rats by ONO–1301, a non–prostanoid prostaglandin I2 mimetic compound with inhibitory activity against thromboxane A2 synthase. Hayashi K, et al. **Jpn J Pharmacol** 1997 Jan;73(1):73–82

The German Glomerulonephritis Therapy Study: 10 years of controlled randomized trials for the treatment of idiopathic glomerulonephritis. Risler T, et al. **Kidney Blood Press Res** 1996;19(3–4):196–200

Effect of interleukin–10 treatment on crescentic glomerulonephritis in rats. Chadban SJ, et al. **Kidney Int** 1997 Jun;51(6):1809–17

Interleukin–4 and interleukin–10 attenuate established crescentic glomerulonephritis in mice. Kitching AR, et al. **Kidney Int** 1997 Jul;52(1):52–9

TCV–116 inhibits renal interstitial and glomerular injury in glomerulosclerotic rats. Shibouta Y, et al. **Kidney Int Suppl** 1996 Jun;55:S115–8

Effect of a specific endothelin receptor A antagonist on glomerulonephritis of ddY mice with IgA nephropathy. Nakamura T, et al. **Nephron** 1996;72(3):454–60

Cyclosporine in glomerular disease. Mowry JA, et al. **Semin Nephrol** 1996 Nov;16(6):548–54 (61 ref.)

Interleukin–1 receptor antagonism. Nikolic–Paterson DJ, et al. **Semin Nephrol** 1996 Nov;16(6):583–90 (38 ref.)

Therapy of rapidly progressive glomerulonephritis with immunosuppressive agents. Savin M, et al. **Srp Arh Celok Lek** 1997 Jul–Aug;125(7–8):207–13 **(Eng, Scc)**

A multicenter study of Consupren (cyclosporine) versus cyclophosphamide in chronic glomerulonephritis. Matl I, et al. **Transplant Proc** 1996 Dec;28(6):3149–51

[A controlled clinical trial of Consupren versus cyclophosphamide in chronic glomerulonephritis] Matl I, et al. **Cas Lek Cesk** 1997 Feb 12;136(4):120–3 (Eng. Abstr.) **(Cze)**

[Controlled clinical study of Consupren versus cyclophosphamide in chronic glomerulonephritis. II. Adverse effects] Matl I, et al. **Cas Lek Cesk** 1997 Jun 26; 136(13):405–8 (Eng. Abstr.) **(Cze)**

[Immunosuppression in therapy of glomerulonephritis] Grabensee B, et al. **Internist (Berl)** 1997 Jun;38(6):562–73 (34 ref.) **(Ger)**

[Cyclosporin in treatment of glomerular diseases] Krieter DH, et al. **Internist (Berl)** 1996 Jan;37(1):84–8 (34 ref.) **(Ger)**

[Pneumocystis carinii and aspergillus pneumonia in immunosuppression in rapidly progressing glomerulonephritis of the anti–glomerular basement membrane type] Späth M, et al. **Med Klin** 1996 Sep 15; 91(9):603–6 **(Ger)**

[The effect of administering Omega–3 acids on lipids in serum, functional state of erythrocyte membrane and function of the kidneys in patients with primary glomerulonephritis] Fox J, et al. **Przegl Lek** 1996; 53(12):858–61 (Eng. Abstr.) **(Pol)**

[Factors influencing the results of chronic glomerulonephritis treatment] Riabov SI, et al. **Klin Med (Mosk)** 1997; 75(2):38–42 (Eng. Abstr.) **(Rus)**

[The use of angiotensin–converting enzyme inhibitors and the function of the renin–angiotensin–aldosterone system in chronic glomerulonephritis (a review of the literature and the author's own data)] Ospanova TS. **Lik Sprava** 1996 Jul–Sep;(7–9):22–6 (29 ref.) **(Rus)**

[The effect of angiotensin–converting enzyme inhibitors on left ventricular hypertrophy in patients with chronic glomerulonephritis and pronounced kidney failure] Diadyk AI, et al. **Ter Arkh** 1997;69(6):24–7 (Eng. Abstr.) **(Rus)**

[The hormonal sensitivity of glomeruionephritis patients] Ivashchenko ZhA, et al. **Ter Arkh** 1996;68(6):13–6 (Eng. Abstr.) **(Rus)**

[Sandimmun in the treatment of chronic glomerulonephritis with the nephrotic syndrome] Krasnova TN, et al. **Ter Arkh** 1997;69(6):21–3 (Eng. Abstr.) **(Rus)**

[The importance of the clinical classification of chronic glomerulonephritis for the prognosis of its progression and of the efficacy of therapy] Ratner MIa, et al. **Ter Arkh** 1996;68(6):10–3 (Eng. Abstr.) **(Rus)**

[New approaches to therapy in glomerulonephritis patients] Riabov SI, et al. **Ter Arkh** 1996;68(6):24–7 (Eng. Abstr.) **(Rus)**

[Activators and inhibitors of fibrinolysis in chronic glomerulonephritis and amyloidosis] Podorol'skaia LV, et al. **Vopr Med Khim** 1996 Oct–Dec;42(4):322–7 (Eng. Abstr.) **(Rus)**

[The vasoactive action of kurantil in patients with chronic glomerulonephritis] Kolesnyk MO, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):162–4 (Eng. Abstr.) **(Ukr)**

[The efficacy of using antiaggregants in chronic glomerulonephritis with grade–I chronic kidney failure] Kolesnyk MO, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):135–7 (Eng. Abstr.) **(Ukr)**

[The effect of vasoactive preparations on kidney functional status in patients with chronic glomerulonephritis and kidney failure] Kolesnyk MO, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):18–21 (30 ref.) **(Ukr)**

ENZYMOLOGY

Role of neutrophil elastase in the development of renal necrotizing vasculitis. Hotta O, et al. **Clin Nephrol** 1996 Apr;45(4):211–6

Protein kinase C beta II isoform is up–regulated in human proliferative glomerulonephritis. Ganz MB, et al. **Exp Nephrol** 1997 May–Jun;5(3):225–32

Involvement of neutrophil elastase in crescentic glomerulonephritis. Oda T, et al. **Hum Pathol** 1997 Jun; 28(6):720–8

Expression of inducible–NOS in human glomerulonephritis: the possible source is infiltrating monocytes/macrophages. Kashem A, et al. **Kidney Int** 1996 Aug;50(2):392–9

Expression of glomerular antioxidant enzymes in human glomerulonephritis. Wang JS, et al. **Nephron** 1997; 76(1):32–8

Changes in inducible nitric oxide synthase expression in experimental glomerulonephritis. Lianos EA, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):405–11

[The role of proteolytic enzymes in the pathogenesis of primary glomerulonephritis] Senatorski G, et al. **Postepy Hig Med Dosw** 1997;51(2):139–48 (33 ref.) (Eng. Abstr.) **(Pol)**

EPIDEMIOLOGY

The pattern of glomerular disease in New Caledonia: preliminary findings. Painter D, et al. **Pathology** 1996 Jan; 28(1):32–5

Prevalence of adult primary glomerular diseases: retrospective analysis of 206 kidney biopsies (1990–1993). Mazzarolo Cruz HM, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jan–Feb;51(1):3–6

[Epidemiology of poststreptococcal glomerulonephritis in the military population] Jovanović D, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:187–9 (Eng. Abstr.) **(Scc)**

ETIOLOGY

Fibrillary glomerulonephritis associated with hepatitis C viral infection. Coroneos E, et al. **Am J Kidney Dis** 1997 Jan; 29(1):132–5 (15 ref.)

Acute renal failure due to postinfectious glomerulonephritis during pregnancy. Fervenza F, et al. **Am J Kidney Dis** 1997 Feb;29(2):273–6

Cerebral vasculitis associated with acute post–streptococcal glomerulonephritis. Rovang RD, et al. **Am J Nephrol** 1997; 17(1):89–92

Tissue factor in crescentic glomerulonephritis [comment] McCluskey RT. **Am J Pathol** 1997 Mar;150(3):787–92 (64 ref.). Comment on: Am J Pathol 1997 Mar;150(3):873–80.

Arteritis in a novel congenic strain of mice derived from MRL/Lpr lupus mice: genetic dissociation from glomerulonephritis and limited autoantibody production. Nose M, et al. **Am J Pathol** 1996 Nov;149(5):1763–9

Mesangial cell culture: its role in the understanding of the pathogenesis of glomerular disease. Lee GS. **Ann Acad Med Singapore** 1995 Nov;24(6):851–5 (41 ref.)

Immunohistologic analysis of renal CD40 and CD40L expression in lupus nephritis and other glomerulonephritides. Yellin MJ, et al. **Arthritis Rheum** 1997 Jan;40(1):124–34

Microscopic polyangiitis mimicking Henoch–Schönlein purpura followed by severe renal involvement: a diagnostic role for antineutrophil cytoplasmic autoantibody [letter] Akimoto S, et al. **Br J Dermatol** 1997 Feb;136(2):298–9

Up–regulation of macrophage colony–stimulating factor (M–CSF) and migration inhibitory factor (MIF) expression and monocyte recruitment during lipid–induced glomerular injury in the exogenous hypercholesterolaemic (ExHC) rat. Miyazaki K, et al. **Clin Exp Immunol** 1997 May; 108(2):318–23

Poststreptococcal glomerulonephritis: getting to know an old enemy [editorial] Oliveira DB. **Clin Exp Immunol** 1997 Jan; 107(1):8–10

Macrophage–colony stimulating factor (M–CSF) enhances proteinuria and recruitment of macrophages into the glomerulus in experimental murine nephritis. Utsunomiya Y, et al. **Clin Exp Immunol** 1996 Nov;106(2):286–96

Garland pattern post–streptococcal glomerulonephritis (PSGN, clinical characteristics and follow–up [letter] Grčevska L, et al. **Clin Nephrol** 1996 Dec;46(6):413–4

Neurological presentation of poststreptococcal glomerulonephritis [see comments] Nordby JA. **Clin Pediatr (Phila)** 1997 Feb;36(2):105–8. Comment in: Clin Pediatr (Phila) 1997 Aug;36(8):492–3.

Role of lipids in progressive renal disease: insights from the analbuminemic rat. Joles JA, et al. **Contrib Nephrol** 1997; 120:120–31 (79 ref.)

Transforming growth factor beta in diabetic nephropathy. Border WA, et al. **Diabetes Metab Rev** 1996 Dec; 12(4):309–39 (128 ref.)

T cell subsets in immunologically–mediated glomerulonephritis. van Alderwegen IE, et al. **Histol Histopathol** 1997 Jan;12(1):241–50 (93 ref.)

Modulators of crescentic glomerulonephritis. Atkins RC, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2271–8 (79 ref.)

Th2 responses induce humorally mediated injury in experimental anti–glomerular basement membrane glomerulonephritis. Huang XR, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1101–8

Molecular mechanisms of glomerular injury in rat experimental membranous nephropathy (Heymann nephritis) [editorial] Kerjaschki D, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2518–26 (78 ref.)

Complement synthesis in the injured kidney: does it have a role in immune complex glomerulonephritis? [comment] Sacks SH, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2314–9 (56 ref.). Comment on: J Am Soc Nephrol 1996 Nov;7(11):2428–33.

Trapidil modifies mesangial cell proliferation and collagen accumulation in anti–thymocyte serum (ATS)–induced glomerulonephritis. Razzaque MS, et al. **J Comp Pathol** 1996 Feb;114(2).175–82

Toxocariasis as a cause of renal disease in children in Sharkia Governorate, Egypt. Nada SM, et al. **J Egypt Soc Parasitol** 1996 Dec;26(3):709–17

Plasminogen and plasminogen activators protect against renal injury in crescentic glomerulonephritis. Kitching AR, et al. **J Exp Med** 1997 Mar 3;185(5):963–8

RANTES and monocyte chemoattractant protein–1 (MCP–1) play an important role in the inflammatory phase of crescentic nephritis, but only MCP–1 is involved in crescent formation and interstitial fibrosis. Lloyd CM, et al. **J Exp Med** 1997 Apr 7;185(7):1371–80

Crescentic glomerulonephritis in interferon–gamma receptor deficient mice. Haas C, et al. **J Inflamm** 1995–96; 47(4):206–13

Crescentic glomerulonephritis in juvenile chronic arthritis. Dhib M, et al. **J Rheumatol** 1996 Sep;23(9):1636–40

Extracapillary glomerulonephritis in a patient with juvenile chronic arthritis. Mertens JC, et al. **J Rheumatol** 1996 Sep; 23(9):1633–5

Molecular biology of glomerular inflammation. Schlöndroff D. **Kidney Blood Press Res** 1997;20(3):143–4

TGF–beta in kidney fibrosis: a target for gene therapy. Border WA, et al. **Kidney Int** 1997 May;51(5):1388–96 (40 ref.)

Immunologic determinants of susceptibility to experimental glomerulonephritis: role of cellular immunity. Coelho SN, et al. **Kidney Int** 1997 Mar;51(3):646–52

Leukocyte migration in immune complex glomerulonephritis: role of adhesion receptors. Lefkowith JB. **Kidney Int** 1997 May;51(5):1469–75 (54 ref.)

Antibody independent crescentic glomerulonephritis in mu chain deficient mice. Li S, et al. **Kidney Int** 1997 Mar; 51(3):672–8

Role of T cells in the mediation of Heymann nephritis. ii. Identification of Th1 and cytotoxic cells in glomeruli. Penny MJ, et al. **Kidney Int** 1997 Apr;51(4):1059–68

Monocyte chemoattractant protein 1 mediates glomerular macrophage infiltration in anti-GBM Ab GN. Tang WW, et al. **Kidney Int** 1996 Aug;50(2):665–71

Induction of glomerulonephritis in rats with staphylococcal phosphatase: new aspects in post-infectious ICGN. Yousif Y, et al. **Kidney Int** 1996 Jul;50(1):290–7

Antiglomerular basement membrane glomerulonephritis following D-penicillamine-associated nephrotic syndrome. Bindi P, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):325–7

Type II mixed cryoglobulinaemia, hepatitis C virus infection, and glomerulonephritis. Fornasieri A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:25–30 (42 ref.)

The clinical spectrum of shunt nephritis. Haffner D, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1143–8

Glomerulonephritis and non-Hodgkin lymphoma. Harper L, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1520–5 (40 ref.)

ANCA-associated pauci-immune crescentic glomerulonephritis complicating Sjögren's syndrome. Hernández JL, et al. **Nephrol Dial Transplant** 1996 Nov; 11(11):2313–5

TGF-beta and glomerulonephritis: anti-inflammatory versus prosclerotic actions. Kitamura M, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):669–79 (161 ref.)

Crescentic glomerulonephritis associated with p-ANCA positivity in fludarabine-treated chronic lymphocytic leukaemia. Tisler A, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2306–8

HCV-associated cryoglobulinaemia presenting with vasculitis, hepatitis, and glomerulonephritis – a therapeutic dilemma. Treichel U, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1168–71

Acute glomerulonephritis without fever: an unusual presentation of malaria on mefloquine prophylaxis [letter] Martínez-Ocana JC, et al. **Nephron** 1996;73(2):372

Focal segmental necrotizing glomerulonephritis in rheumatoid arthritis. Harper L, et al. **QJM** 1997 Feb; 90(2):125–32

Recent approaches to understanding clinical glomerular disease. Mallick NP, et al. **Ren Fail** 1996 Sep;18(5):705–9 (11 ref.)

Cytokines, growth factors, and other inflammatory mediators in glomerulonephritis. Papayianni A. **Ren Fail** 1996 Sep; 18(5):725–40 (137 ref.)

Outcome of silent lupus nephritis. Gonzalez-Crespo MR, et al. **Semin Arthritis Rheum** 1996 Aug;26(1):468–76 (73 ref.)

Alterations in glomerular anionic sites in the autologous phase of canine anti-glomerular basement membrane nephritis. Sugimoto J, et al. **Toxicol Pathol** 1996 Sep-Oct; 24(5):627–35

Recurrent glomerulonephritis following renal transplantation. Kotanko P, et al. **Transplantation** 1997 Apr 27;63(8):1045–52 (77 ref.)

Henoch-Schonlein nephritis associated with subacute thyroiditis. Oner A, et al. **Turk J Pediatr** 1996 Jan-Mar; 38(1):131–5

[Extrahepatic diseases certainly related to hepatitis C virus] Durand JM. **Presse Med** 1997 Jun 21;26(21):1014–22 (126 ref.) **(Fre)**

[Renal lesions of rats induced by antibodies to cultured rat glomerular epithelial cells and mesangial cells] Tamura N, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):387–94 (Eng. Abstr.) **(Jpn)**

[A case of necrotizing crescentic glomerulonephritis with arteritis due to secondary amyloidosis following rheumatoid arthritis] Watanabe M, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):421–5 (Eng. Abstr.) **(Jpn)**

[Alveolar hemorrhage and glomerulonephritis in two patients with anti-neutrophil cytoplasmic antibodies] Takiguchi Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar; 35(3):334–40 (Eng. Abstr.) **(Jpn)**

[Coping with pathological changes in digestive system and kidney in collagen disease —rapidly progressive glomerulonephritis] Ueno M, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1860–6 **(Jpn)**

[Acute postinfectious glomerulonephritis] Oshima S, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):108–12 (16 ref.) **(Jpn)**

[Crescentic glomerulonephritis in a patient with rheumatoid arthritis] Nakamura T, et al. **Ryumachi** 1997 Jun; 37(3):476–82 (Eng. Abstr.) **(Jpn)**

[Transforming growth factor-beta: a new approach to the pathogenesis of glomerulonephritis and glomerulosclerosis] Witowski J, et al. **Przegl Lek** 1995;52(9):467–73 (49 ref.) (Eng. Abstr.) **(Pol)**

[Is glomerulopathy due to schistosomiasis mansoni disappearing?] Correia EI, et al. **Rev Soc Bras Med Trop** 1997 Jul-Aug;30(4):341–3 (Eng. Abstr.) **(Por)**

[Shunt nephritis. 2 case reports and a review of the literature] Bogdanović R, et al. **Srp Arh Celok Lek** 1996 Jan-Feb; 124(1-2):29–36 (60 ref.) (Eng. Abstr.) **(Scc)**

[Association of acute rheumatic fever and acute glomerulonephritis] Jovanović D, et al. **Vojnosanit Pregl** 1996 May-Jun;53(3):233–5 **(Scr)**

GENETICS

HLA-DP antigens and post-streptococcal acute glomerulonephritis. Mori K, et al. **Acta Paediatr** 1996 Aug; 85(8):916–8

Familial glomerulopathy with giant fibrillar (fibronectin-positive) deposits: 15-year follow-up in a large kindred. Gemperle O, et al. **Am J Kidney Dis** 1996 Nov; 28(5):668–75

Arteritis in a novel congenic strain of mice derived from MRL/Lpr lupus mice: genetic dissociation from glomerulonephritis and limited autoantibody production. Nose M, et al. **Am J Pathol** 1996 Nov;149(5):1763–9

Gene expression of CC chemokines in experimental crescentic glomerulonephritis (CGN). Natori Y, et al. **Clin Exp Immunol** 1997 Jul;109(1):143–8

Apolipoprotein E phenotype and renal disease. Oda H, et al. **Contrib Nephrol** 1997;120:22–9

Heparin-binding epidermal growth factor-like growth factor, an immediate-early gene for mesangial cells, is up-regulated in the Thy-1.1 model. Polihronis M, et al. **Exp Nephrol** 1996 Sep-Oct;4(5):271–8

Susceptibility to anti-glomerular basement membrane disease is strongly associated with HLA-DRB1 genes. Fisher M, et al. **Kidney Int** 1997 Jan;51(1):222–9

Expression of inducible-NOS in human glomerulonephritis: the possible source is infiltrating monocytes/macrophages. Kashem A, et al. **Kidney Int** 1996 Aug;50(2):392–9

TNF-alpha up-regulates renal MIF expression in rat crescentic glomerulonephritis. Lan HY, et al. **Mol Med** 1997 Feb;3(2):136–44

[Molecular pathogenesis of experimental membraneous glomerulonephritis (Heymann nephritis)] Kerjaschki D. **Pathologe** 1996 Jul;17(4):262–8 (45 ref.) (Eng. Abstr.) **(Ger)**

HISTORY

Frederick Akbar Mahomed (1849–1884): pioneer of clinical research. Swales JD. **J Hum Hypertens** 1996 Mar; 10(3):137–42

[History of glomerular sclerosis] Striker LJ, et al. **Nephrologie** 1996;17(8):457–61 **(Fre)**

IMMUNOLOGY

Possible role for a polysaccharide antigen shared between Streptococcus pyogenes and S. mutans in the pathogenesis of poststreptococcal glomerulonephritis. Okada K, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):470–5

Effect of enalapril therapy on glomerular accumulation of immune complexes and mesangial matrix in experimental glomerulonephritis in the nonhuman primate. Hebert LA, et al. **Am J Kidney Dis** 1997 Aug;30(2):243–52

Polyarteritis nodosa and antiglomerular basement membrane disease without antineutrophil cytoplasm antibodies. Kirkland GS, et al. **Am J Nephrol** 1996;16(5):442–5

Mechanisms of T cell-induced glomerular injury in anti-glomerular basement membrane (GBM) glomerulonephritis in rats. Huang XR, et al. **Clin Exp Immunol** 1997 Jul;109(1):134–42

Up-regulation of macrophage colony-stimulating factor (M-CSF) and migration inhibitory factor (MIF) expression and monocyte recruitment during lipid-induced glomerular injury in the exogenous hypercholesterolaemic (ExHC) rat. Miyazaki K, et al. **Clin Exp Immunol** 1997 May; 108(2):318–23

Gene expression of CC chemokines in experimental crescentic glomerulonephritis (CGN). Natori Y, et al. **Clin Exp Immunol** 1997 Jul;109(1):143–8

Experimental acute glomerulonephritis induced in the rabbit with a specific streptococcal antigen. Yoshizawa N, et al. **Clin Exp Immunol** 1997 Jan;107(1):61–7

Incidence and studies on antigenic specificities of antineutrophil-cytoplasmic autoantibodies (ANCA) in poststreptococcal glomerulonephritis. Ardiles LG, et al. **Clin Nephrol** 1997 Jan;47(1):1–5

Prolonged hypocomplementemia in poststreptococcal acute glomerulonephritis. Dedeoglu IO, et al. **Clin Nephrol** 1996 Nov;46(5):302–5

Natural killer cell proliferation and renal disease: a functional and phenotypic study. Vargas JA, et al. **Cytometry** 1996 Jun 15;26(2):125–30

HLA antigens in microscopic polyarteritis (MP) with renal involvement. Papasteriades C, et al. **Dis Markers** 1997 Apr; 13(2):117–22

Lipopolysaccharide-induced glomerulonephritis develops in the absence of interferon-gamma signaling. Haas C, et al. **Exp Nephrol** 1996 Jul-Aug;4(4):222–30

T cell subsets in immunologically-mediated glomerulonephritis. van Alderwegen IE, et al. **Histol Histopathol** 1997 Jan;12(1):241–50 (93 ref.)

In staphylococcus enterotoxin B (SEB)-stimulated human PBMC, the LAK activity of non-T cells might have a major role in the mechanism of glomerular endothelial cells' injury. Seprényi G, et al. **Immunobiology** 1997 Jun; 197(1):44–54

Th2 responses induce humorally mediated injury in experimental anti-glomerular basement membrane glomerulonephritis. Huang XR, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1101–8

Prostaglandin E1 reduces the glomerular mRNA expression of monocyte-chemoattractant protein 1 in anti-thymocyte antibody-induced glomerular injury. Jocks T, et al. **J Am Soc Nephrol** 1996 Jun;7(6):897–905

Immunohistochemical localization of IL-8 and TGF-beta in streptococcal glomerulonephritis. Mezzano S, et al. **J Am Soc Nephrol** 1997 Feb;8(2):234–41

Evidence for increased synthesis of complement C4 in the renal epithelium of rats with passive Heymann nephritis. Zhou W, et al. **J Am Soc Nephrol** 1997 Feb;8(2):214–22

Trapidil modifies mesangial cell proliferation and collagen accumulation in anti-thymocyte serum (ATS)-induced glomerulonephritis. Razzaque MS, et al. **J Comp Pathol** 1996 Feb;114(2):175–82

The pathogenic role of macrophage migration inhibitory factor in immunologically induced kidney disease in the rat. Lan HY, et al. **J Exp Med** 1997 Apr 21;185(8):1455–65

Crucial role of CD8-positive lymphocytes in glomerular expression of ICAM-1 and cytokines in crescentic glomerulonephritis of WKY rats. Fujinaka H, et al. **J Immunol** 1997 May 15;158(10):4978–83

Purification and characterization of human nephritogenic antigen that induces anti-GBM nephritis in rats. Sado Y, et al. **J Pathol** 1997 Jun;182(2):225–32

Immunologic determinants of susceptibility to experimental glomerulonephritis: role of cellular immunity. Coelho SN, et al. **Kidney Int** 1997 Mar;51(3):646–52

Th1 responsiveness to nephritogenic antigens determines susceptibility to crescentic glomerulonephritis in mice. Huang XR, et al. **Kidney Int** 1997 Jan;51(1):94–103

Antibody independent crescentic glomerulonephritis in mu chain deficient mice. Li S, et al. **Kidney Int** 1997 Mar; 51(3):672–8

Role of T cells in the mediation of Heymann nephritis. ii. Identification of Th1 and cytotoxic cells in glomeruli. Penny MJ, et al. **Kidney Int** 1997 Apr;51(4):1059–68

Lipoxins, leukocyte recruitment and the resolution phase of acute glomerulonephritis. O'Meara YM, et al. **Kidney Int Suppl** 1997 Mar;58:S56–61 (48 ref.)

Shared idiotypy among patients with myeloperoxidase-anti-neutrophil cytoplasmic autoantibody associated glomerulonephritis and vasculitis. Nachman PH, et al. **Lab Invest** 1996 Feb;74(2):519–27

Normocalcaemic hepatorenal sarcoidosis with crescentic glomerulonephritis. Auinger M, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1474–7

Antineutrophil cytoplasmic autoantibodies (ANCA) and systemic sclerosis. Carvajal I, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):576–7

Crescentic glomerulonephritis with antineutrophil cytoplasmic antibodies associated with chronic lymphocytic leukaemia. Dussol B, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):785–6

Anti-GBM-associated crescentic glomerulonephritis with discrete IgG deposition, but with no electron-dense material in glomeruli. Igarashi Y, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2070–3

ANCA-positive rapidly progressive glomerulonephritis: there may be more to the diagnosis than you think! Messiaen T, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):839–41

Low prevalence of hepatitis C virus antibodies in a Spanish population with glomerular diseases [letter] Gonzalo A, et al. **Nephron** 1997;76(2):245–6

A monoclonal antibody (1F3) to human glomerular epithelial cells: a new marker for renal epithelial cell injury. Kagami S, et al. **Nephron** 1997;75(1):65–71

Hepatitis C virus seropositivity in glomerulonephritis patients [letter] Roccatello D, et al. **Nephron** 1997;76(3):355–6

An adolescent case of anti-neutrophil cytoplasmic autoantibodies-associated crescentic glomerulonephritis complicated with subclinical autoimmune thyroiditis. Tanaka H, et al. **Nippon Jinzo Gakkai Shi** 1996 Oct; 38(10):463–8

A renal biopsy in essential for the management of ANCA-positive patients with glomerulonephritis. Falk RJ, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Oct; 13(3):230–1 (13 ref.)

A renal biopsy is essential for the management of ANCA-positive patients with glomerulonephritis: the contra-view. Niles JL. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Oct;13(3):232–4 (10 ref.)

Transforming growth factor-beta mRNA expression in CD4+ T cells from patients with primary glomerulonephritides. Lai KN, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):223–6

[Nephrology update—IV. Rapidly progressing glomerulonephritis] Fünfstück R, et al. **Med Klin** 1996 Oct 15;91(10):632–9 (120 ref.) **(Ger)**

[A case of necrotizing crescentic glomerulonephritis in which myeloperoxidase antineutrophil cytoplasmic antibodies (ANCA) reflect the disease activity and recognize various neutrophil cytoplasmic constituents] Fujimoto T, et al. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):172–7 (Eng. Abstr.) **(Jpn)**

[Effects of neutralizing antibodies on cytokine treatment for anti-GBM nephritis in mouse] Hattori T, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec;38(12):563–70 (Eng. Abstr.) **(Jpn)**

[A case of myeloperoxidase-specific antineutrophil cytoplasmic antibody (MPO-ANCA)-related glomerulonephritis associated with Cogan's syndrome] Suzuki M, et al. **Nippon Jinzo Gakkai Shi** 1996 Sep; 38(9):423–7 (Eng. Abstr.) **(Jpn)**

[Rapidly progressive glomerulonephritis and ANCA—anti-GBM antibody] Nagase M. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):501–5 (9 ref.) **(Jpn)**

[Progress in diagnosis and treatment of renal diseases. I. Primary glomerular diseases. 1. Acute glomerulonephritis] Yoshizawa N, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1624–30 (5 ref.) **(Jpn)**

[Rapidly progressive glomerulonephritis associated with myeloperoxidase specific–antineutrophil cytoplasmic antibody in patients with rheumatoid arthritis : report of three cases] Yoshihara R, et al. **Ryumachi** 1996 Oct; 36(5):762–8 (Eng. Abstr.) **(Jpn)**

[Anti–neutrophil cytoplasmic antibodies (ANCA) in the glomerulonephritis] Kacprzyk F, et al. **Pol Arch Med Wewn** 1996 Jun;95(6):514–23 (Eng. Abstr.) **(Pol)**

[Immune complexes and C3 and C4 of the complement in urine of patients with glomerulonephritis] Kacprzyk F, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):215–23 (Eng. Abstr.) **(Pol)**

METABOLISM

L–arginine metabolism in immune–mediated glomerulonephritis in the rat. Ketteler M, et al. **Am J Kidney Dis** 1996 Dec;28(6):878–87

Immunohistochemical study of endothelin–1 in preeclamptic nephropathy. Nagai Y, et al. **Am J Kidney Dis** 1997 Mar; 29(3):345–54

Gene expression of PDGF and PDGF receptor in various forms of glomerulonephritis. Matsuda M, et al. **Am J Nephrol** 1997;17(1):25–31

Tissue factor initiates glomerular fibrin deposition and promotes major histocompatibility complex class II expression in crescentic glomerulonephritis [see comments] Erlich JH, et al. **Am J Pathol** 1997 Mar;150(3):873–80. Comment in: Am J Pathol 1997 Mar;150(3):787–92.

Lipoproteins accumulate in immune deposits and are modified by lipid peroxidation in passive Heymann nephritis. Exner M, et al. **Am J Pathol** 1996 Oct; 149(4):1313–20

De Novo renal expression of macrophage migration inhibitory factor during the development of rat crescentic glomerulonephritis. Lan HY, et al. **Am J Pathol** 1996 Oct; 149(4):1119–27

Histciogical evidence of neuraminidase involvement in acute nephritis: desialized leukocytes infiltrate the kidney in acute post–streptococcal glomerulonephritis. Marín C, et al. **Clin Nephrol** 1997 Apr;47(4):217–21

Proteinuria and plasma hexosugars in early–stage glomerulonephritis. Pitkanen E. **Clin Nephrol** 1996 Apr; 45(4):226–9

Isoprenoids, Ras and proliferative glomerular disease. O'Donnell MP, et al. **Contrib Nephrol** 1997;120:219–27 (35 ref.)

Relationship between alpha–smooth muscle actin expression and fibrotic changes in human kidney. Boukhalfa G, et al. **Exp Nephrol** 1996 Jul–Aug;4(4):241–7

The value of proliferating cell nuclear antigen (PCNA)/cyclin in the assessment of cell proliferation in glomerulonephritis. Nakopoulou L, et al. **Histol Histopathol** 1997 Jul;12(3):655–62

Transforming growth factor–beta production during the development of renal fibrosis in rats with subtotal renal ablation. Coimbra TM, et al. **Int J Exp Pathol** 1996 Aug; 77(4):167–73

Prognostic markers in patients with antineutrophil cytoplasmic autoantibody–associated microscopic polyangiitis and glomerulonephritis. Hogan SL, et al. **J Am Soc Nephrol** 1996 Jan;7(1):23–32

Prostaglandin E1 reduces the glomerular mRNA expression of monocyte–chemoattractant protein 1 in anti–thymocyte antibody–induced glomerular injury. Jocks T, et al. **J Am Soc Nephrol** 1996 Jun;7(6):897–905

Immunohistochemical localization of IL–8 and TGF–beta in streptococcal glomerulonephritis. Mezzano S, et al. **J Am Soc Nephrol** 1997 Feb;8(2):234–41

Adhesion molecules expression in noncrescentic acute post–streptococcal glomerulonephritis. Rastaldi MP, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2419–27

Phosphodiesterase inhibitors correct resistance to natriuretic peptides in rats with Heymann Nephritis. Valentin JP, et al. **J Am Soc Nephrol** 1996 Apr;7(4):582–93

Receptor–associated protein and members of the low density lipoprotein receptor family share a common epitope. An extended model for the development of passive Heymann nephritis. Hiesberger T, et al. **J Biol Chem** 1996 Nov 15; 271(46):28792–7

Expression of monocyte chemoattractant protein–1 in experimental crescentic glomerulonephritis in rats. Sekiguchi M, et al. **J Lab Clin Med** 1997 Feb;129(2):239–44

Fatal attraction: adhesion molecules and disease [editorial] Bruijn JA, et al. **J Pathol** 1997 Aug;182(4):371–2

Upregulation and co–localization of connexin43 and cellular adhesion molecules in inflammatory renal disease. Hillis GS, et al. **J Pathol** 1997 Aug;182(4):373–9

Adhesion molecules in human crescentic glomerulonephritis. Patey N, et al. **J Pathol** 1996 Aug;179(4):414–20

Mesangial cell–matrix interactions in glomerular inflammation. Schoecklmann HO, et al. **Kidney Blood Press Res** 1996;19(3–4):184–90 (40 ref.)

Inhibition of TGF–beta 1 expression by antisense oligonucleotides suppressed extracellular matrix accumulation in experimental glomerulonephritis. Akagi Y, et al. **Kidney Int** 1996 Jul;50(1):148–55

Glomerular up–regulation of EIIIA and V120 fibronectin isoforms in proliferative immune complex nephritis. Alonso J, et al. **Kidney Int** 1996 Sep;50(3):908–19

Anti–inflammatory lymphokine mRNA expression in antibody–induced glomerulonephritis. Lakkis FG, et al. **Kidney Int** 1996 Jan;49(1):117–26

Protease nexin 1 in the murine kidney: glomerular localization and up–regulation in glomerulopathies. Moll S, et al. **Kidney Int** 1996 Dec;50(6):1936–45

SPARC is expressed in renal interstitial fibrosis and in renal vascular injury. Pichler RH, et al. **Kidney Int** 1996 Dec; 50(6):1978–89

Adhesion molecule interactions in human glomerulonephritis: importance of the tubulointerstitium. Roy–Chaudhury P, et al. **Kidney Int** 1996 Jan;49(1):127–34

CD44 in glomerulonephritis: expression in human renal biopsies, the Thy 1.1 model, and by cultured mesangial cells. Roy–Chaudhury P, et al. **Kidney Int** 1996 Jul; 50(1):272–81

Importance of the tubulointerstitium in human glomerulonephritis. II. Distribution of integrin chains beta 1, alpha 1 to 6 and alpha V. Roy–Chaudhury P, et al. **Kidney Int** 1997 Jul;52(1):103–10

Prostaglandin E1 inhibits collagen expression in anti–thymocyte antibody–induced glomerulonephritis: possible role of TGF beta. Schneider A, et al. **Kidney Int** 1996 Jul;50(1):190–9

Changes in cell–cycle protein expression during experimental mesangial proliferative glomerulonephritis. Shankland SJ, et al. **Kidney Int** 1996 Oct;50(4):1230–9

Modulation of glomerular sclerosis and interstitial fibrosis by native and modified lipoproteins. Gröne HJ, et al. **Kidney Int Suppl** 1996 May;54:S18–22 (28 ref.)

Glomerular expression of macrophage colony–stimulating factor and granulocyte–macrophage colony–stimulating factor in patients with various forms of glomerulonephritis. Matsuda M, et al. **Lab Invest** 1996 Sep;75(3):403–12

Expression of bcl–2 oncoprotein in various types of glomerulonephritis and renal allografts. Nakopoulou L, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):997–1002

Intrinsic renal cells are the major source of interleukin–1 beta synthesis in normal and diseased rat kidney. Tesch GH, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1109–15

Increased renal expression of cytokines and growth factors induced by DOCA–NaCl treatment in Heymann nephritis. Tikkanen I, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2192–8

A case study of inappropriate idiopathic erythropoietin production in a patient on regular hemodialysis for 10 years: is beetjuice a factor? [letter] Dalmak S, et al. **Nephron** 1997; 75(1):118

Membrane attack complex and membrane cofactor protein are related to tubulointerstitial inflammation in various human glomerulopathies. Mosolits S, et al. **Nephron** 1997; 75(2):179–87

Hepatocyte growth factor localization in primary glomerulonephritis and drug–induced interstitial nephritis [letter] Taniguchi Y, et al. **Nephron** 1996;73(2):357–8

Chronic inhibition of nitric oxide synthase in Heymann nephritis. Uhlenius N, et al. **Nephron** 1996;74(1):144–9

Glomerular ICAM–1 expression related to circulating TNF–alpha in human glomerulonephritis. Yokoyama H, et al. **Nephron** 1997;76(4):425–33

Mechanism of elevated local oxidant stress in early anti–glomerular basement membrane nephritis: an evaluation of oxidant production and superoxide dismutase expression. Nishimura H, et al. **Nippon Jinzo Gakkai Shi** 1996 Oct;38(10):441–8

Glomerular sequence of events concerning monocyte/macrophage accumulation and ICAM–1 expression during experimental serum sickness nephritis in the rat. Yang X. **Pathol Int** 1997 Apr;47(4):238–49

Events that stimulate release of thromboxane B2 in passive heymann nephritis. Alavi N, et al. **Proc Soc Exp Biol Med** 1997 Feb;214(2):167–72

Quantification of changes in transforming growth factor–beta1 gene expression in experimental crescentic glomerulonephritis. Lianos EA, et al. **Proc Soc Exp Biol Med** 1997 Feb;214(2):180–6

Glomerular handling of immune complex in the acute phase of active in situ immune complex glomerulonephritis employing cationized ferritin in rats. Ultrastructural localization of immune complex, complements and inflammatory cells. Fujigaki Y, et al. **Virchows Arch** 1997 Jul;431(1):53–61

[Sairei–to may inhibit the synthesis of endothelin–1 in nephritic glomeruli] Hattori T, et al. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):121–8 (Eng. Abstr.) **(Jpn)**

[Collagenofibrotic glomerulonephropathy, collagen deposition disease] Komatsuda A, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):140–3 (12 ref.) **(Jpn)**

[Tumor necrosis factor (TNF) and interleukin–6 (IL–6) in patients with glomerulonephritis] Kacprzyk F, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):224–33 (Eng. Abstr.) **(Pol)**

[Serum and urinary interleukin–6 levels in patients with primary glomerulonephritis] Hrvačević R, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:40–2 (Eng. Abstr.) **(Scc)**

MICROBIOLOGY

Experimental acute glomerulonephritis induced in the rabbit with a specific streptococcal antigen. Yoshizawa N, et al. **Clin Exp Immunol** 1997 Jan;107(1):61–7

Prolonged hypocomplementemia in poststreptococcal acute glomerulonephritis. Dedeoglu IO, et al. **Clin Nephrol** 1996 Nov;46(5):302–5

Circulating levels of cytokines in poststreptococcal glomerulonephritis. Soto HM, et al. **Clin Nephrol** 1997 Jan; 47(1):6–12

Asymptomatic acute poststreptococcal glomerulonephritis following upper respiratory tract infections caused by Group A streptococci. Yoshizawa N, et al. **Clin Nephrol** 1996 Nov;46(5):296–301

Elevated IgG titer against the C region of streptococcal M protein and its immunodeterminants in patients with poststreptococcal acute glomerulonephritis. Mori K, et al. **J Pediatr** 1997 Aug;131(2):293–9

[Occurrence of extracapillary glomerulonephritis during Mediterranean boutonneuse fever] Durrbach A, et al. **Nephrologie** 1996;17(6):333–6 (Eng. Abstr.) **(Fre)**

[MRSA–related glomerulonephritis] Muro K, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):99–101 (8 ref.) **(Jpn)**

[The phage sensitivity and lysogeny of cultures of Streptococcus pyogenes group A isolated in different streptococcal infections] Asoskova TK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):7–10 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Fibrillary glomerulonephritis related to serum fibrillar immunoglobulin–fibronectin complexes. Rostagno A, et al. **Am J Kidney Dis** 1996 Nov;28(5):676–84

Immunotactoid–like glomerulopathy with massive fibrillary deposits in liver and bone marrow in monoclonal gammopathy. Strøm EH, et al. **Am J Nephrol** 1996; 16(6):523–8

Autoantibodies to myeloperoxidase aggravate mild anti–glomerular–basement–membrane–mediated glomerular injury in the rat. Heeringa P, et al. **Am J Pathol** 1996 Nov;149(5):1695–706

Neutrophil fate in experimental glomerular capillary injury in the rat. Emigration exceeds in situ clearance by apoptosis. Hughes J, et al. **Am J Pathol** 1997 Jan; 150(1):223–34

Macrophage apoptosis in rat crescentic glomerulonephritis. Lan HY, et al. **Am J Pathol** 1997 Aug;151(2):531–8

Perinuclear antineutrophil cytoplasmic antibody in rheumatoid arthritis: a marker of severe disease with associated nephropathy. Mustila A, et al. **Arthritis Rheum** 1997 Apr;40(4):710–7

Plasma renin activity as a marker of renovascular injury in patients with rheumatoid arthritis. Mavrikakis ME, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):613–7

HMG–CoA reductase inhibitor suppression of glomerular cell proliferation in rats with anti–Thy–1.1 nephritis. Nabeshima K, et al. **Contrib Nephrol** 1997;120:153–9

Lipopolysaccharide–induced glomerulonephritis develops in the absence of interferon–gamma signaling. Haas C, et al. **Exp Nephrol** 1996 Jul–Aug;4(4):222–30

Clinical electron microscopic correlations in patients with glomerulonephritis. Dimitrakov D, et al. **Folia Med (Plovdiv)** 1996;38(2):43–7

Extraglomerular origin of the mesangial cell after injury. A new role of the juxtaglomerular apparatus. Hugo C, et al. **J Clin Invest** 1997 Aug 15;100(4):786–94

Suppression of mesangial–cell proliferation by trapidil in glomerulonephritis induced by anti–thymocyte serum in rats. Razzaque MS, et al. **J Int Med Res** 1995 Nov–Dec; 23(6):458–66

Expression of monocyte chemoattractant protein–1 in experimental crescentic glomerulonephritis in rats. Sekiguchi M, et al. **J Lab Clin Med** 1997 Feb;129(2):239–44

Crescentic glomerulonephritis in juvenile chronic arthritis. Dhib M, et al. **J Rheumatol** 1996 Sep;23(9):1636–40

Applications in renal immunopathology of reflection contrast microscopy, a novel superior light microscopical technique. Prins FA, et al. **Kidney Int** 1996 Jan;49(1):261–6

Monocyte chemoattractant protein–1 mediates monocyte/macrophage influx in anti–thymocyte antibody–induced glomerulonephritis. Wenzel U, et al. **Kidney Int** 1997 Mar;51(3):770–6

Pathogenesis of chronic renal failure in the primary glomerulopathies, renal vasculopathies, and chronic interstitial nephritides. Bohle A, et al. **Kidney Int Suppl** 1996 May;54:S2–9 (44 ref.)

Mesangial cells from transgenic mice with progressive glomerulosclerosis exhibit stable, phenotypic changes including undetectable MMP–9 and increased type IV collagen. Jacot TA, et al. **Lab Invest** 1996 Dec;75(6):791–9

Fibrillary deposits: amyloids and tactoids. Looi LM. **Malays J Pathol** 1995 Jun;17(1):1–10 (54 ref.)

IgG nephropathy: an uncommon form of primary glomerulonephritis? Pickering WP, et al. **N Z Med J** 1996 Sep 27;109(1030):365

Glomerulonephritis in the elderly. Davison AM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:34–7

Anti–GBM–associated crescentic glomerulonephritis with discrete IgG deposition, but with no electron–dense material in glomeruli. Igarashi Y, et al.

Nephrol Dial Transplant 1996 Oct;11(10):2070–3

Tubulitis in primary vascular and glomerular renal disease. Iványi B, et al. **Pathol Res Pract** 1995 Dec;191(12):1245–57

The pattern of glomerular disease in New Caledonia: preliminary findings. Painter D, et al. **Pathology** 1996 Jan; 28(1):32–5

Biology of the mesangial cell in glomerulonephritis--role of cytokines. Ooi BS, et al. **Proc Soc Exp Biol Med** 1996 Dec; 213(3):230–7 (59 ref.)

Newer glomerular diseases. Abt AB, et al. **Semin Nephrol** 1996 Nov;16(6):501–10 (51 ref.)

Alterations in glomerular anionic sites in the autologous phase of canine anti-glomerular basement membrane nephritis. Sugimoto J, et al. **Toxicol Pathol** 1996 Sep–Oct; 24(5):627–35

Morphologic, immunohistochemical, and ultrastructural characterization of a distinctive renal lesion in dogs putatively associated with Borrelia burgdorferi infection: 49 cases (1987–1992). Dambach DM, et al. **Vet Pathol** 1997 Mar;34(2):85–96

Juvenile nephropathy in a dalmatian [see comments] Dixon CE. **Vet Rec** 1997 Feb 15;140(7):184. Comment in: Vet Rec 1997 Mar 1;140(9):240. Comment in: Vet Rec 1997 Mar 8;140(10):264.

Ultrastructural localization of vascular cell adhesion molecule-1 in proliferative and crescentic glomerulonephritis. Ogawa T, et al. **Virchows Arch** 1996 Nov;429(4–5):283–91

[Interstitial involvement in glomerulonephritis] Strutz F, et al. **Internist (Berl)** 1996 Nov;37(11):1143–51 (80 ref.) **(Ger)**

[Crescent formation in children with Henoch–Schönlein purpura nephritis: a pathological and immunohistochemical study] Kinoue K, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug; 38(8):364–71 (Eng. Abstr.) **(Jpn)**

[Endocapillary proliferative glomerulonephritis] Kanauchi M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):113–6 (6 ref.) **(Jpn)**

[Mesangial proliferative glomerulonephritis] Kaneko O, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):215–8 (15 ref.) **(Jpn)**

[Granulomatous glomerulonephritis] Matsumura O, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):186–9 (17 ref.) **(Jpn)**

[Necrotizing glomerulonephritis (necrotizing glomerulitis)] Nagasawa T. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):102–3 (3 ref.) **(Jpn)**

[Fibrillary glomerulonephritis, immunotactoid glomerulopathy] Taguchi T. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):91–4 (19 ref.) **(Jpn)**

[Focal necrotizing glomerulonephritis] Tomiyoshi Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):178–81 (16 ref.) **(Jpn)**

[Pathohistologic and ultrastructural features of drug-induced membranous glomerulonephritis] Pospishil' IuA. **Arkh Patol** 1996 Sep–Oct;58(5):52–6 (Eng. Abstr.) **(Rus)**

[The clinico-morphological characteristics of glomerulonephritis in infectious endocarditis] Diadyk AI, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):88–92 (Eng. Abstr.) **(Rus)**

[The prognostic significance of the morphological type of chronic glomerulonephritis and of the tubulointerstitial changes depending on the clinical type of the disease] Ratner MIa, et al. **Ter Arkh** 1997;69(6):10–3 (Eng. Abstr.) **(Rus)**

[The tubulointerstitial changes in different clinical and morphological types of chronic glomerulonephritis] Ratner MIa, et al. **Urol Nefrol (Mosk)** 1997 Mar–Apr;(2):16–9 (Eng. Abstr.) **(Rus)**

[The role of platelet-derived growth factor in progression of nephropathy] Spustová V, et al. **Vnitr Lek** 1996 Dec; 42(12):842–8 (Eng. Abstr.) **(Slo)**

[Microscopic polyarteritis] de Ancos Aracil C, et al. **An Med Interna** 1995 Sep;12(9):456–60 (36 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Hydrogen peroxide downregulates IL-1-driven mesangial iNOS activity: implications for glomerulonephritis. Jaimes EA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F721–8

An experimental model for acute poststreptococcal glomerulonephritis in mice. Nordstrand A, et al. **APMIS** 1996 Nov;104(11):805–16

Glomerulonephritis: roles for lipoxygenase pathways in pathophysiology and therapy. Badr KF. **Curr Opin Nephrol Hypertens** 1997 Mar;6(2):111–8 (75 ref.)

Complex roles for P-selectin in the pathophysiology of glomerulonephritis [editorial] Brady HR. **Curr Opin Nephrol Hypertens** 1996 Sep;5(5):423–6

Rapid development of glomerulosclerosis in diabetic Dahl salt-sensitive rats. Körner A, et al. **Diabetologia** 1997 Apr; 40(4):367–73

Decreased PMN accumulation and glomerular damage by clodronate liposome treatment in PMN-dependent anti-GBM nephritis in mice. Feith GW, et al. **Exp Nephrol** 1997 Jul–Aug;5(4):301–4

Oxidative stress and antioxidant defense mechanism in glomerular diseases. Túri S, et al. **Free Radic Biol Med** 1997;22(1–2):161–8

Pathophysiological role and diuretic efficacy of atrial natriuretic peptide in renal patients. De Nicola L, et al. **J Am Soc Nephrol** 1997 Mar;8(3):445–55

Involvement of IL-4 in human glomerulonephritis: an in situ hybridization study of IL-4 mRNA and IL-4 receptor mRNA. Furusu A, et al. **J Am Soc Nephrol** 1997 May; 8(5):730–41

Renal response to blood pressure elevation in normal and glomerulonephritic rats. Gabbai FB, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2590–9

Role of transforming growth factor-beta 1 in glomerulonephritis. Taniguchi Y, et al. **J Int Med Res** 1997 Mar–Apr;25(2):71–80

Role of serotonin in nephrotoxic serum nephritis in WKY rats. Kanai H, et al. **J Lab Clin Med** 1997 May; 129(5):557–66

Still a role for plasma exchange in rapidly progressive glomerulonephritis? Levy JB, et al. **J Nephrol** 1997 Jan–Feb;10(1):7–13 (57 ref.)

The role of nitric oxide in experimental glomerulonephritis. Ketteler M, et al. **Kidney Blood Press Res** 1996; 19(3–4):177–81 (50 ref.)

Vasoactive hormones and renal sclerosis. Egido J. **Kidney Int** 1996 Feb;49(2):578–97 (229 ref.)

Monocyte chemoattractant protein-1 mediates monocyte/macrophage influx in anti-thymocyte antibody-induced glomerulonephritis. Wenzel U, et al. **Kidney Int** 1997 Mar;51(3):770–6

Role of cytokines and growth factors in glomerulonephritis: a chance for future therapeutic intervention. Johnson RJ. **Nephron** 1996;73(4):506–14 (64 ref.)

Monoclonal gammopathy associated with crescentic glomerulonephritis and antimyeloperoxidase antibodies. Martin JC, et al. **Nephron** 1996;72(1):79–81

The critical role of intercellular adhesion molecule-1 in Masugi nephritis in rats. Wada J, et al. **Nephron** 1996; 73(2):264–72

Renal functional reserve after acute poststreptococcal glomerulonephritis. Cleper R, et al. **Pediatr Nephrol** 1997 Aug;11(4):473–6

Progression of glomerulonephritis. Alexopoulos E. **Ren Fail** 1996 Sep;18(5):741–53 (104 ref.)

Inhibiting inflammatory cytokines. Kluth DC, et al. **Semin Nephrol** 1996 Nov;16(6):576–82 (60 ref.)

[Vasoactive factors in chronic glomerulonephritis] Knotková V, et al. **Cas Lek Cesk** 1996 Nov 6;135(21):687–90 (Eng. Abstr.) **(Cze)**

[Pathogenesis of glomerulonephritis] Honkanen E, et al. **Duodecim** 1995;111(15):1426–34 (28 ref.) **(Fin)**

[Role of thrombin and its receptor in the pathogenesis of severe forms of human glomerulonephritis with fibrin deposits] Sraer JD, et al. **Bull Acad Natl Med** 1996 Oct; 180(7):1609–23; discussion 1624–5 (Eng. Abstr.) **(Fre)**

[Renal hemodynamics and proteinuria in chronic glomerulonephritis treated with beta-receptor blockers or ace inhibitors] Erley CM, et al. **Dtsch Med Wochenschr** 1997 Aug 1;122(31–32):953–8 (Eng. Abstr.) **(Ger)**

[Relationship between some parameters of carbohydrate metabolism, proteinuria and glomerular filtration rate in patients with primary glomerulonephritis] Biedunkiewicz B, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):208–14 (Eng. Abstr.) **(Pol)**

[Fibrinolytic and peripheral serotonergic system in patients with glomerulonephritis] Małyszko J, et al. **Przegl Lek** 1995;52(9):428–30 (Eng. Abstr.) **(Pol)**

[Variants in the transient deterioration of kidney function in chronic glomerulonephritis] Riabov SI, et al. **Ter Arkh** 1996;68(11):62–7 (Eng. Abstr.) **(Rus)**

[The mechanisms of glomerulonephritis progression (editorial)] Tareeva IE. **Ter Arkh** 1996;68(6):5–10 (33 ref.) **(Rus)**

PREVENTION & CONTROL

A growth hormone antagonist protects mice against streptozotocin induced glomerulosclerosis even in the presence of elevated levels of glucose and glycated hemoglobin. Chen NY, et al. **Endocrinology** 1996 Nov; 137(11):5163–5

Immune modulation with interleukin-4 and interleukin-10 prevents crescent formation and glomerular injury in experimental glomerulonephritis. Tipping PG, et al. **Eur J Immunol** 1997 Feb;27(2):530–7

In vivo effect of OPC15161, a superoxide scavenger, on anti-Thy1 nephritis. Hamada N, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):123–8

Suppression of anti-glomerular basement membrane nephritis by administration of anti-monocyte chemoattractant protein-1 antibody in WKY rats. Fujinaka H, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1174–8

Intercellular adhesion molecule-1 deficiency protects MRL/MpJ-Fas(lpr) mice from early lethality. Bullard DC, et al. **J Immunol** 1997 Aug 15;159(4):2058–67

Suppression of mesangial-cell proliferation by trapidil in glomerulonephritis induced by anti-thymocyte serum in rats. Razzaque MS, et al. **J Int Med Res** 1995 Nov–Dec; 23(6):458–66

Anti-T cell receptor antibody treatment of mice with lupus-like graft versus host disease: suppression of glomerulonephritis without reduction in anti-DNA antibody levels. Maeda T, et al. **J Rheumatol** 1995 Dec; 22(12):2259–65

Suppressive effects of sairei-to on monoclonal antibody 1-22-3-induced glomerulonephritis: analysis of effective components. Li P, et al. **Pathol Int** 1997 Jul;47(7):430–5

SURGERY

Renal transplantation in patients with microscopic polyarteritis and antimyeloperoxidase antibodies: report of three cases. Frasca GM, et al. **Nephron** 1996;72(1):82–5

THERAPY

Treatment of hepatitis B virus associated glomerulonephritis with recombinant human alpha interferon. Chung DR, et al. **Am J Nephrol** 1997;17(2):112–7

Plasma exchange is not excluded as a useful therapy in vasculitis-associated glomerulonephritis [editorial] Gaskin G, et al. **Ann Med Interne (Paris)** 1997;148(3):196–7

Treatment of glomerulonephritis in microscopic polyangiitis and Churg-Strauss syndrome. Indications of plasma exchanges, Meta-analysis of 2 randomized studies on 140 patients, 32 with glomerulonephritis. Guillevin L, et al. **Ann Med Interne (Paris)** 1997;148(3):198–204 (17 ref.)

Retrospective study of plasma exchange in patients with idiopathic rapidly progressive glomerulonephritis and vasculitis. Gianviti A, et al. **Arch Dis Child** 1996 Sep; 75(3):186–90

Effect of lipid-lowering therapy on the progression of renal disease in nondiabetic nephrotic patients. Neverov NI, et al. **Contrib Nephrol** 1997;120:68–78

Therapeutic intervention in glomerulonephritis by oligonucleotides. Kashihara N, et al. **Exp Nephrol** 1997 Mar–Apr;5(2):126–31 (29 ref.)

Treatment response and relapse in antineutrophil cytoplasmic autoantibody-associated microscopic polyangiitis and glomerulonephritis. Nachman PH, et al. **J Am Soc Nephrol** 1996 Jan;7(1):33–9

Still a role for plasma exchange in rapidly progressive glomerulonephritis? Levy JB, et al. **J Nephrol** 1997 Jan–Feb;10(1):7–13 (57 ref.)

Management of rapidly progressive glomerulonephritis. Gaskin G. **J R Coll Physicians Lond** 1997 Jan–Feb; 31(1):15–8 (25 ref.)

Multi-centre glomerulonephritis registry--basis for optimised therapy. Risler T, et al. **Kidney Blood Press Res** 1997; 20(3):184–7 (14 ref.)

Beneficial effects of systemic immunoglobulin in experimental membranous nephropathy. Nangaku M, et al. **Kidney Int** 1996 Dec;50(6):2054–62

Leukemia inhibitory factor ameliorates experimental anti-GBM Ab glomerulonephritis. Tang WW, et al. **Kidney Int** 1996 Dec;50(6):1922–7

Renal vasculitis. D'Amico G, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:69–74 (47 ref.)

Role of cytokines and growth factors in glomerulonephritis: a chance for future therapeutic intervention. Johnson RJ. **Nephron** 1996;73(4):506–14 (64 ref.)

Minimal change glomerulonephritis in a 90-year-old patient: what is the ideal approach? Norris M, et al. **Nephron** 1996; 73(4):670–3

Unusual presentations of extrapulmonary tuberculosis in three hemodialysis patients. Fang JT, et al. **Ren Fail** 1997 May; 19(3):485–90

Outcome of silent lupus nephritis. Gonzalez-Crespo MR, et al. **Semin Arthritis Rheum** 1996 Aug;26(1):468–76 (73 ref.)

Molecular biological intervention. Isaka Y, et al. **Semin Nephrol** 1996 Nov;16(6):591–8 (23 ref.)

[Pregnancy in chronic hemodialysis] Guiserix J. **Nephrologie** 1996;17(5):297–301 (Eng. Abstr.) **(Fre)**

[Case of p-ANCA-positive rapidly progressing glomerulonephritis requiring hemodialysis: effectiveness of anti-MPO antibody determiantion in predicting pulmonary hemorrhage] Matsuda T, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):675–7 **(Jpn)**

[Effect of treating glomerulonephritis with omega 3 fatty acids for selected parameters of hemostasis, blood platelet function and lipid metabolism] Małyszko JS, et al. **Przegl Lek** 1996;53(8):600–3 (Eng. Abstr.) **(Pol)**

[The successful use of recombinant alfa-2 interferon in HBV-associated glomerulonephritis in a child] Fedorchenko SV, et al. **Ter Arkh** 1996;68(2):69–70 (9 ref.) **(Rus)**

[Intermittent hemofiltration in the treatment of acute kidney failure in glomerulonephritis patients] Milovanov IuS, et al. **Ter Arkh** 1997;69(6):27–30 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Correlation of quantitative renal cortical echogenicity with renal function in pediatric renal diseases. Tsau YK, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jul–Aug;38(4):276–81

URINE

Characterization of proteinuria in primary glomerulonephritides: urinary polymers of albumin. Bazzi C, et al. **Am J Kidney Dis** 1997 Sep;30(3):404–12

Characterization of proteinuria in primary glomerulonephritides. SDS-PAGE patterns: clinical significance and prognostic value of low molecular weight ("tubular") proteins. Bazzi C, et al. **Am J Kidney Dis** 1997 Jan;29(1):27–35

Inability of community-based laboratories to identify pathological casts in urine samples. Rasoulpour M, et al. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1201–4

Urinary type IV collagen as a marker for early diabetic nephropathy. Kado S, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1-3):103-8

Urinary macrophage counts and ratio to T lymphocytes: possible use in differential diagnosis and management of glomerular disease. Hotta O, et al. **J Clin Lab Anal** 1996; 10(4):205-8

Urinary tissue factor in glomerulonephritis: a potential marker of glomerular injury? Lwaleed BA, et al. **J Clin Pathol** 1997 Apr;50(4):336-40

Urinary transforming growth factor-beta in patients with glomerular diseases. Murakami K, et al. **Pediatr Nephrol** 1997 Jun;11(3):334-6

Low molecular weight protein excretion in glomerular disease: a comparative analysis. Tomlinson PA, et al. **Pediatr Nephrol** 1997 Jun;11(3):285-90

[The dynamic surface tension of the blood and urine in chronic glomerulonephritis] Siniachenko OV, et al. **Lik Sprava** 1997 Jan-Feb;(1):48-51 (Eng. Abstr.) **(Rus)**

[Nephrotic proteinuria in poststreptococcal glomerulonephritis] Jovanović D, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:60-2 (Eng. Abstr.) **(Scc)**

VETERINARY

Clinical and pathological features of protein-losing glomerular disease in the dog: a review of 137 cases (1985-1992). Cook AK, et al. **J Am Anim Hosp Assoc** 1996 Jul-Aug;32(4):313-22

Diagnosis and long-term management of protein-losing glomerulonephropathy. A 5-year case-based approach. Lulich JP, et al. **Vet Clin North Am Small Anim Pract** 1996 Nov;26(6):1401-16 (16 ref.)

Morphologic, immunohistochemical, and ultrastructural characterization of a distinctive renal lesion in dogs putatively associated with Borrelia burgdorferi infection: 49 cases (1987-1992). Dambach DM, et al. **Vet Pathol** 1997 Mar;34(2):85-96

Renal glomerular fibrosis in a cat. Nakamura S, et al. **Vet Pathol** 1996 Nov;33(6):696-9

Juvenile nephropathy in a dalmatian [see comments] Dixon CE. **Vet Rec** 1997 Feb 15;140(7):184. Comment in: Vet Rec 1997 Mar 1;140(9):240. Comment in: Vet Rec 1997 Mar 8;140(10):264.

VIROLOGY

Prevalence of hepatitis C in patients with idiopathic glomerulopathies in native and transplant kidneys. Cosio FG, et al. **Am J Kidney Dis** 1996 Nov;28(5):752-8

Treatment of hepatitis B virus associated glomerulonephritis with recombinant human alpha interferon. Chung DR, et al. **Am J Nephrol** 1997;17(2):112-7

Detection of hepatitis B virus DNA and RNA in kidneys of HBV related glomerulonephritis. Lai KN, et al. **Kidney Int** 1996 Dec;50(6):1965-77

Glomerulonephritis secondary to Barmah Forest virus infection. Katz IA, et al. **Med J Aust** 1997 Jul 7;167(1):21-3

[Hepatitis B virus infection and pathogenesis of glomerulonephritis] Zhang Y, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1995 Dec;24(6):341-4 (Eng. Abstr.) **(Chi)**

GLOMERULONEPHRITIS, FOCAL SCLEROSING see **GLOMERULOSCLEROSIS, FOCAL**

GLOMERULONEPHRITIS, IGA

IgA nephropathy databank: development of a system for management of renal biopsy acquired data. Wyatt RJ, et al. **Am J Kidney Dis** 1997 Jun;29(6):817-28

Recent concepts in the pathogenesis and therapy of IgA nephritis. Woo KT. **Ann Acad Med Singapore** 1996 Mar; 25(2):265-9 (28 ref.)

Immunoglobulin A nephropathy: a clinical perspective. Donadio JV Jr, et al. **J Am Soc Nephrol** 1997 Aug; 8(8):1324-32 (52 ref.)

IgA nephropathy in patients over 50 years of age: a multicentre, prospective study. Frimat L, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1043-7

[Advances in the research on immunoglobulin A nephropathy] Zhang Y, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Feb;35(2):129-32 (20 ref.) (Eng. Abstr.) **(Chi)**

[Fundamental and clinical aspects of IgA nephropathy] Sakai O. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1388-97 (10 ref.) **(Jpn)**

BLOOD

Elevation of von Willebrand factor levels in patients with IgA nephropathy: effect of ACE inhibition. Hernández E, et al. **Am J Kidney Dis** 1997 Sep;30(3):397-403

Low levels of spontaneously activated peripheral IgA-secreting cells in nontransplanted IgA nephropathy patients. Kennel-De March A, et al. **Am J Kidney Dis** 1997 Jul;30(1):64-70

Plasma activity of contact coagulation factors in patients with IgA nephritis. Tan CC, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):218-21

Circulating serum lectins of patients with IgA nephropathy stimulate IL-6 release from mesangial cells. Libetta C, et al. **J Am Soc Nephrol** 1997 Feb;8(2):208-13

Selenium status and plasma glutathione peroxidase in patients with IgA nephropathy. Bellisola G, et al. **J Trace Elem Med Biol** 1996 Sep;10(3):189-96

Von Willebrand factor abnormalities in IgA nephropathy. Bertaglia G, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):474-9

IgA serology in recurrent and non-recurrent IgA nephropathy after renal transplantation. Coppo R, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2310-5

CHEMICALLY INDUCED

Experimental IgA nephropathy induced by a low-dose environmental mycotoxin, nivalenol. Hinoshita F, et al. **Nephron** 1997;75(4):469-78

CLASSIFICATION

Histologic subclassification of IgA nephropathy: a clinicopathologic study of 244 cases. Haas M. **Am J Kidney Dis** 1997 Jun;29(6):829-42

Prognostic indicators of progressive renal disease in IgA nephropathy: emergence of a new histologic grading system [editorial] Lee SM. **Am J Kidney Dis** 1997 Jun; 29(6):953-8 (28 ref.)

Histological grading and staging of IgA nephropathy. Shigematsu H. **Pathol Int** 1997 Apr;47(4):194-202 (53 ref.)

COMPLICATIONS

Long-term effects of intensive therapy combined with tonsillectomy in patients with IgA nephropathy. Hotta O, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:165-8

Reconstitution of SCID mouse with tonsillar cells from patients with IgA nephropathy. Nagasawa R, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:185-8

Effects of tonsillectomy in children with IgA nephropathy, purpura nephritis, or other chronic glomerulonephritides. Sanai A, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 523:172-4

Reduced reticulization of palatine tonsils with IgA nephropathy. Sato Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:189-92

Investigation of the local provocation test to PPP and IgA nephritis. Shiraishi S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:178-81

Clinical study of chronic tonsillitis with IgA nephropathy treated by tonsillectomy. Tomioka S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:175-7

Deterioration of urinary findings after tonsil stimulation in patients with IgA nephropathy. Yamabe H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:169-71

Henoch-Schönlein purpura with immunoglobulin A nephropathy and abnormalities of immunoglobulin A in a Wiskott-Aldrich syndrome carrier. Lasseur C, et al. **Am J Kidney Dis** 1997 Feb;29(2):285-7

Isolated hematuria in adults: IgA nephropathy is a predominant cause of hematuria compared with thin glomerular basement membrane nephropathy. Tanaka H, et al. **Am J Nephrol** 1996;16(5):412-6

Bronchiolitis obliterans and IgA nephropathy. A new cause of pulmonary-renal syndrome. Hernández JI, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):665-8 (22 ref.)

IgA nephropathy in a patient with Behçet's syndrome--case report and review of literature. Hemmen T, et al. **Br J Rheumatol** 1997 Jun;36(6):696-9 (31 ref.)

Subclinical Fabry's disease occurring in the context of IgA nephropathy. Kawamura O, et al. **Clin Nephrol** 1997 Feb; 47(2):71-5

IgA nephropathy and pernicious anemia [letter] Nunes JP, et al. **Clin Nephrol** 1997 Mar;47(3):204

Predicting renal outcome in IgA nephropathy. Radford MG Jr, et al. **J Am Soc Nephrol** 1997 Feb;8(2):199-207

Diagnostic value of dysmorphic urinary red cells [letter; comment] György AZ. **N Engl J Med** 1996 Oct 24; 335(17):1323. Comment on: N Engl J Med 1996 May 30;334(22):1440.

IgA nephropathy associated with polycythaemia vera: accelerated course. Kasuno K, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):212-5

Pulmonary haemorrhage in association with IgA nephropathy. Medcalf JF, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1148-9

Parent and child cases of IgA nephropathy associated with von Recklinghausen's disease [letter] Taniguchi Y, et al. **Nephron** 1997;75(1):113-4

Kostmann's syndrome and IgA nephropathy: an unknown association [letter] Tsimaratos M, et al. **Nephron** 1996; 74(2):478

IgA nephropathy in a patient with unilateral renal agenesis [letter] Waga S, et al. **Nephron** 1996;74(2):479-80

Alveolar hemorrhage in IgA nephropathy treated with plasmapheresis. Afessa B, et al. **South Med J** 1997 Feb; 90(2):237-9

[A familial history of hypertension is associated with the development of hypertension and nephroangiosclerosis in patients with glomerulonephritis caused by mesangial IgA deposits] Boulahrouz R, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1065-8 (Eng. Abstr.) **(Fre)**

[Glomerular nephropathy with IgA mesangium deposits and Crohn disease] Dabadie A, et al. **Arch Pediatr** 1996 Sep; 3(9):884-7 (Eng. Abstr.) **(Fre)**

[Sarcoidosis representing multiple splenic nodules in a patient with IgA nephropathy] Nishiya H, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):40-5 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Berger's disease and acquired sensorineural hearing loss] Ramírez Ponferrada R, et al. **Acta Otorrinolaringol Esp** 1997 Mar;48(2):147-51 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Natural history and risk factors for immunoglobulin A nephropathy in Japan. Research Group on Progressive Renal Diseases. Koyama A, et al. **Am J Kidney Dis** 1997 Apr;29(4):526-32

Prognostic indicators of progressive renal disease in IgA nephropathy: emergence of a new histologic grading system [editorial] Lee SM. **Am J Kidney Dis** 1997 Jun; 29(6):953-8 (28 ref.)

Recurrence of immunoglobulin A nephropathy with immunoglobulin A antineutrophil cytoplasmic antibodies following renal transplantation. Martin SJ, et al. **Am J Kidney Dis** 1997 Jan;29(1):125-31 (29 ref.)

An adolescent with relapsing nephrotic syndrome: minimal-change disease versus focal-segmental glomerulosclerosis versus C1q nephropathy. Shappell SB, et al. **Am J Kidney Dis** 1997 Jun;29(6):966-70

Chronic glomerulonephritis: medical and aeromedical disposition. Michaud VJ. **Aviat Space Environ Med** 1997 Mar;68(3):225-7

IgA nephropathy and pernicious anemia [letter] Nunes JP, et al. **Clin Nephrol** 1997 Mar;47(3):204

The significance of focal and segmental hyalinosis and sclerosis (FSHS) and nephrotic range proteinuria in IgA nephropathy. Packham DK, et al. **Clin Nephrol** 1996 Oct; 46(4):225-9

Primary IgA nephropathy: a preliminary report. Sehgal S, et al. **Indian J Pathol Microbiol** 1995 Jul;38(3):233-7

Outcome of pregnancy in women with glomerular diseases. Alexopoulos E, et al. **Ren Fail** 1996 Jan;18(1):121-9

[Paraneoplastic IgA nephritis as the initial symptom of bronchial carcinoma] Schütte W, et al. **Pneumologie** 1996 Jul;50(7):494-5 (Eng. Abstr.) **(Ger)**

[Possibilities for early discovery and early treatment of IgA nephropathy] Yoshikawa Y, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1781-5 **(Jpn)**

[The course and outcome of IgA glomerulonephritis] Naumova VI, et al. **Ter Arkh** 1996;68(6):82-4 (33 ref.) **(Rus)**

DRUG THERAPY

Pathological improvement of IgA nephropathy and Henoch-Schönlein purpura nephritis with urokinase therapy. Watanabe T, et al. **Acta Paediatr Jpn** 1996 Dec; 38(6):622-8

Fish oil therapy in IgA nephropathy. Fung SM, et al. **Ann Pharmacother** 1997 Jan;31(1):112-5 (17 ref.)

Immunosuppressive treatment of Berger's disease. Faedda R, et al. **Clin Pharmacol Ther** 1996 Nov;60(5):561-7

Mycophenolate mofetil for systemic vasculitis and IgA nephropathy [letter] Nowack R, et al. **Lancet** 1997 Mar 15;349(9054):774

Reactivity of glomerular and serum IgA1 to jacalin in IgA nephropathy. Hiki Y, et al. **Nephron** 1996;72(3):429-35

Effect of a specific endothelin receptor A antagonist on glomerulonephritis of ddY mice with IgA nephropathy. Nakamura T, et al. **Nephron** 1996;72(3):454-60

Advances in treatment: immunoglobulin A nephropathy. Hogg RJ, et al. **Semin Nephrol** 1996 Nov;16(6):511-6 (31 ref.)

[Long-term administration of cyclosporine A in patients with IgA nephropathy] Chábová V, et al. **Cas Lek Cesk** 1996 Dec 18;135(24):803-6 (Eng. Abstr.) **(Cze)**

[Possibilities for early discovery and early treatment of IgA nephropathy] Yoshikawa Y, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1781-5 **(Jpn)**

[Clinical course and treatment results of IgA nephropathy in children] Sieniawska M, et al. **Pediatr Pol** 1996 Apr; 71(4):313-20 (Eng. Abstr.) **(Pol)**

ENZYMOLOGY

Leucocyte beta 1,3 galactosyltransferase activity in IgA nephropathy. Allen AC, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):701-6

ETHNOLOGY

Increased recognition of IgA nephropathy in African-American children. Sehic AM, et al. **Pediatr Nephrol** 1997 Aug;11(4):435-7

ETIOLOGY

Do intestinal hyperpermeability and the related food antigens play a role in the progression of IgA nephropathy? I. Study of intestinal permeability. Kovács T, et al. **Am J Nephrol** 1996;16(6):500-5

Schönlein-Henoch purpura in adult patients. Predictive factors for IgA glomerulonephritis in a retrospective study of 57 cases [see comments] Tancrede-Bohin E, et al. **Arch Dermatol** 1997 Apr;133(4):438-42. Comment in: Arch Dermatol 1997 Apr;133(4):515-8.

Rapidly progressive renal failure occurring in the course of

pyoderma gangrenosum and IgA (lambda) monoclonal gammopathy. Akatsuka T, et al. **Intern Med** 1997 Jan; 36(1):40–3

Activated complement C3: a potentially novel predictor of progressive IgA nephropathy. Zwirner J, et al. **Kidney Int** 1997 Apr;51(4):1257–64

Crescentic IgA nephropathy and acute renal failure in an HIV-positive patient with enteric salmonella infection. Hsieh WS, et al. **Nephrol Dial Transplant** 1996 Nov; 11(11):2320–3

IgA nephropathy--human disease and animal model. Endo Y. **Ren Fail** 1997 May;19(3):347–71 (193 ref.)

[Pathogenesis of IgA nephropathy: role of outer membranes of Haemophilus parainfluenzae antigens] Suzuki S, et al. **Nippon Rinsho** 1997 Jun;55(6):1580–7 (30 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

Association of IgA nephropathy with T-cell receptor constant alpha chain gene polymorphism. Li PK, et al. **Am J Kidney Dis** 1997 Aug;30(2):260–4

Genetics of the renin-angiotensin system and renal disease: a progress report. Schmidt S, et al. **Curr Opin Nephrol Hypertens** 1997 Mar;6(2):146–51 (57 ref.)

Renal cortical complement C3 gene expression in IgA nephropathy. Montinaro V, et al. **J Am Soc Nephrol** 1997 Mar;8(3):415–25

Association of angiotensinogen gene T235 variant with progression of immunoglobin A nephropathy in Caucasian patients. Pei Y, et al. **J Clin Invest** 1997 Aug 15; 100(4):814–20

HLA-DQ gene polymorphism in primary IgA nephropathy in three European populations. Fennessy M, et al. **Kidney Int** 1996 Feb;49(2):477–80

Angiotensin converting enzyme gene polymorphism: potential silencer motif and impact on progression in IgA nephropathy. Hunley TE, et al. **Kidney Int** 1996 Feb; 49(2):571–7

Interleukin-1 receptor antagonist allele: is it a genetic link between Henoch-Schönlein nephritis and IgA nephropathy? Liu ZH, et al. **Kidney Int** 1997 Jun; 51(6):1938–42

Molecular basis of hereditary C1q deficiency associated with SLE and IgA nephropathy in a Turkish family. Topaloglu R, et al. **Kidney Int** 1996 Aug;50(2):635–42

Complement 4 locus II gene deletion and DQA1*0301 gene: genetic risk factors for IgA nephropathy and Henoch-Schönlein nephritis. Jin DK, et al. **Nephron** 1996; 73(3):390–5

Selective breeding for high serum IgA levels from noninbred ddY mice: isolation of a strain with an early onset of glomerular IgA deposition. Miyawaki S, et al. **Nephron** 1997;76(2):201–7

[Identical twin sisters with IgA nephropathy] Masuda J, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):52–6 (23 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Direct evidence of the production of IgA by tonsillar lymphocytes and the binding of IgA to the glomerular mesangium of IgA nephropathy patients. Tokuda M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:182–4

Glomerular Fc alphaR expression and disease activity in IgA nephropathy. Kashem A, et al. **Am J Kidney Dis** 1997 Sep; 30(3):389–96

Mechanism of infiltration and activation of glomerular monocytes/macrophages in IgA nephropathy. Ootaka T, et al. **Am J Nephrol** 1997;17(2):137–45

Origin and structure of pathogenic IgA in IgA nephropathy. Allen A, et al. **Biochem Soc Trans** 1997 May;25(2):486–90 (34 ref.)

Nephrological research. Lin S. **Chin Med J (Engl)** 1996 Jan; 109(1):37–9 (0 ref.)

Studies of the molecular basis of IgA production, subclass regulation and class-switch recombination in IgA nephropathy patients. Baskin B, et al. **Clin Exp Immunol** 1996 Dec;106(3):509–17

Enhanced expression of CD31 and CD54 on tonsillar high endothelial venules in IgA nephropathy. Kennel-De March A, et al. **Clin Immunol Immunopathol** 1997 Aug; 84(2):158–65

Erythropoietin dysregulation in renal failure and research on IgA nephropathy. Tan CC. **Clin Sci (Colch)** 1996 Sep; 91(3):258–60 (18 ref.)

Involvement of bacterial antigens in immunoglobulin A nephropathy. Hirabayashi A, et al. **Hiroshima J Med Sci** 1996 Dec;45(4):113–7

Role of intercellular adhesion molecule-1, lymphocyte function-associated antigen-1, and macrophages in ddY mouse nephropathy. Ye XF, et al. **Hiroshima J Med Sci** 1997 Jun;46(2):75–80

Increase of HLA-DR-positive natural killer cells in peripheral blood from patients with IgA nephropathy. Yano N, et al. **Hum Immunol** 1996 Aug;49(1):64–70

T-cell epitopes recognized within the 65,000 MW hsp in patients with IgA nephropathy. Warr K, et al. **Immunology** 1997 Jul;91(3):399–405

An allograft kidney showing both features of IgA nephropathy and membranous glomerulonephritis--a case report. Song K, et al. **J Korean Med Sci** 1996 Aug; 11(4):347–50

Goodpasture's epitope in development of experimental autoimmune glomerulonephritis in rats. Bolton WK, et al. **Kidney Int** 1996 Feb;49(2):327–34

Deficient IgA1 immune response to nasal cholera toxin subunit B in primary IgA nephropathy. de Fijter JW, et al. **Kidney Int** 1996 Sep;50(3):952–61

Activated complement C3: a potentially novel predictor of progressive IgA nephropathy. Zwirner J, et al. **Kidney Int** 1997 Apr;51(4):1257–64

Expression of beta 1 integrins in IgA nephropathy. Hillis GS, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1137–42

Interleukin-13 inhibits cytokine secretion by blood monocytes from patients with IgA nephropathy. Matsumoto K. **Nephron** 1997;75(3):295–302

IgA nephropathy--a disorder of IgA production? Feehally J. **QJM** 1997 Jun;90(6):387–90 (25 ref.)

Analysis of charge distribution of lambda- and kappa-IgA in IgA nephropathy by focused antigen capture immunoassay. Suen KK, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):289–93

[Immunoglobulin skin and renal deposits in patients with IgA nephropathy and Schonlein-Henoch purpura] Szymanik-Grzelak H, et al. **Pediatr Pol** 1996 Apr; 71(4):321–5 (Eng. Abstr.) **(Pol)**

[IgA nephropathy--IgA1 disease] Maksić D, et al. **Vojnosanit Pregl** 1996 Jul-Aug;53(4):293–6 (Eng. Abstr.) **(Scr)**

[Berger's disease and acquired sensorineural hearing loss] Ramirez Ponferrada R, et al. **Acta Otorrinolaringol Esp** 1997 Mar;48(2):147–51 (Eng. Abstr.) **(Spa)**

METABOLISM

Studies of the molecular basis of IgA production, subclass regulation and class-switch recombination in IgA nephropathy patients. Baskin B, et al. **Clin Exp Immunol** 1996 Dec;106(3):509–17

Jak3 expression in glomerular epithelia of IgA nephropathy (IgA-N) patients. Takahashi T, et al. **Clin Exp Immunol** 1996 Jun;104(3):517–24

Expression of thromboxane synthase in kidney tissues from patients with IgA nephropathy. Endoh M, et al. **Clin Nephrol** 1997 Mar;47(3):168–75

Aberrant glycosylation of IgA from patients with IgA nephropathy. Baharaki D, et al. **Glycoconj J** 1996 Aug; 13(4):505–11

Glomerular localization of interleukin-6 suppressed by steroid mini-pulse therapy in an IgA nephropathy patient. Taniguchi Y, et al. **Intern Med** 1995 Dec;34(12):1181–5

Monocyte chemotactic peptide-1 expression in acute and chronic human nephritides: a pathogenetic role in interstitial monocytes recruitment. Grandaliano G, et al. **J Am Soc Nephrol** 1996 Jun;7(6):906–13

Association of asialo-galactosyl beta 1-3N-acetylgalactosamine on the hinge with a conformational instability of Jacalin-reactive immunoglobulin A1 in immunoglobulin A nephropathy. Hiki Y, et al. **J Am Soc Nephrol** 1996 Jun;7(6):955–60

Evidence for involvement of IgA1 hinge glycopeptide in the IgA1-IgA1 interaction in IgA nephropathy. Kokubo T, et al. **J Am Soc Nephrol** 1997 Jun;8(6):915–9

Expression of PDGF and PDGF receptor mRNA in glomeruli in IgA nephropathy. Terada Y, et al. **J Am Soc Nephrol** 1997 May;8(5):817–9

Altered synthesis of interferon-gamma and expression of interferon-gamma receptor by peripheral blood mononuclear cells from patients with IgA nephropathy and non-IgA proliferative glomerulonephritis. Yano N, et al. **J Clin Immunol** 1996 Jan;16(1):71–9

Detection of antioxidant enzyme activities in renal tissues of early stage IgA nephropathy in ddY mice. Wang LN, et al. **J Clin Lab Anal** 1996;10(6):394–8

Clinical assessment of the significance of platelet-derived growth factor in patients with immunoglobulin A nephropathy. Naito T, et al. **J Lab Clin Med** 1997 Jul; 130(1):63–8

Enhanced production of glomerular extracellular matrix in a new mouse strain of high serum IgA ddY mice. Muso E, et al. **Kidney Int** 1996 Dec;50(6):1946–57

Altered expression of fibrogenic growth factors in IgA nephropathy and focal and segmental glomerulosclerosis. Stein-Oakley AN, et al. **Kidney Int** 1997 Jan;51(1):195–204

Spontaneous and lipopolysaccharide-stimulated secretion of cytokines by peripheral blood monocytes in IgA nephropathy is inhibited by interleukin-10. Matsumoto K. **Nephron** 1996;73(2):305–9

Laminin expression in IgA nephropathy kidney sections from a patient with a 4-year renal transplantation [letter] Mukhtar A. **Nephron** 1997;75(3):362

Beta 2-microglobulin as an indicator of interstitial cell infiltration in IgA nephropathy [letter] Nitta K, et al. **Nephron** 1996;74(1):219–20

Intraglomerular deposition of intact cross-linked fibrin in IgA nephropathy and Henoch-Schönlein purpura nephritis. Ono T, et al. **Nephron** 1996;74(3):522–8

IgA nephropathy and Henoch-Schonlein syndrome occurring in the same patient [letter] Ravelli A, et al. **Nephron** 1996;72(1):111–12

Platelet-derived growth factor, interleukin (IL)-1 beta, IL-6R and tumor necrosis factor-alpha in IgA nephropathy. An immunohistochemical study. Taniguchi Y, et al. **Nephron** 1996;74(4):652–60

Involvement of interleukin-4 and soluble CD23 in hypersynthesis of immunoglobulins A and E in patients with IgA nephropathy. Yano N, et al. **Nephron** 1996; 72(1):44–51

[Clinicopathological study of Henoch-Schönlein purpura nephritis with special reference to C3c deposits] Kumada K, et al. **Nippon Jinzo Gakkai Shi** 1996 Jun;38(6):259–68 (Eng. Abstr.) **(Jpn)**

[Uric acid metabolism abnormalities in IgA nephropathies] Konopielko Z, et al. **Pediatr Pol** 1996 Apr;71(4):327–30 (Eng. Abstr.) **(Pol)**

[Correlation of inflammatory cytokines in the urine and serum with clinico-laboratory and pathohistologic features in patients with IgA nephropathy] Maksić DJ, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:37–40 (Eng. Abstr.) **(Scc)**

MICROBIOLOGY

Role of IgA, IgG, and IgM antibodies against Haemophilus parainfluenzae antigens in IgA nephropathy. Suzuki S, et al. **Clin Nephrol** 1996 Nov;46(5):287–95

PATHOLOGY

Pathological improvement of IgA nephropathy and Henoch-Schönlein purpura nephritis with urokinase therapy. Watanabe T, et al. **Acta Paediatr Jpn** 1996 Dec; 38(6):622–8

Histologic subclassification of IgA nephropathy: a clinicopathologic study of 244 cases. Haas M. **Am J Kidney Dis** 1997 Jun;29(6):829–42

Demonstration of the proliferation marker Ki-67 in renal biopsies: correlation to clinical findings. Nabokov A, et al. **Am J Kidney Dis** 1997 Jul;30(1):87–97

Glomerulointerstitial interaction of adhesion molecules in IgA nephropathy and membranoproliferative glomerulonephritis. Ootaka T, et al. **Am J Kidney Dis** 1997 Jun;29(6):843–50

Mechanism of infiltration and activation of glomerular monocytes/macrophages in IgA nephropathy. Ootaka T, et al. **Am J Nephrol** 1997;17(2):137–45

Predicting renal outcome in IgA nephropathy. Radford MG Jr, et al. **J Am Soc Nephrol** 1997 Feb;8(2):199–207

Precise ultrastructural localization of endothelial leukocyte adhesion molecule-1, vascular cell adhesion molecule-1, and intercellular adhesion molecule-1 in patients with IgA nephropathy. Ogawa T, et al. **Nephron** 1997;75(1):54–64

IgA nephropathy with poorly developed lymphoepithelial symbiosis of the palatine tonsils. Sato Y, et al. **Nephron** 1996;74(2):301–8

Histological grading and staging of IgA nephropathy. Shigematsu H. **Pathol Int** 1997 Apr;47(4):194–202 (53 ref.)

Acute interstitial nephritis associated with IgA nephropathy in children. Vasishtha S, et al. **Pediatr Nephrol** 1997 Feb; 11(1):12–5

Vitamin E ameliorates renal injury in an experimental model of immunoglobulin A nephropathy. Trachtman H, et al. **Pediatr Res** 1996 Oct;40(4):620–6

Quantitative analysis of primary proliferative mesangial glomerulonephritis (PMGN) and diffuse form of idiopathic IgA nephropathy (IgAN). Variants of the same morphological process? Danilewicz M, et al. **Pol J Pathol** 1996;47(2):73–8

Case for the panel. When is a spike truly a spike? Brief observations from a pediatric renal biopsy population. Herrera G. **Ultrastruct Pathol** 1997 Jan-Feb;21(1):89–92

Quantitative ultrastructural study of afferent and efferent arterioles in IgA glomerulonephritis and benign nephrosclerosis. Rázga Z, et al. **Virchows Arch** 1996 Nov; 429(4-5):275–81

[The role of the interaction between macrophages and mesangial cells in the progression of IgA nephropathy] Abe A, et al. **Nippon Jinzo Gakkai Shi** 1996 Nov;38(11):519–29 (Eng. Abstr.) **(Jpn)**

[Histological grading and staging of IgA nephropathy] Shigematsu H. **Nippon Jinzo Gakkai Shi** 1996 Aug; 38(8):315–22 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Renal function and histologic findings in immunoglobulin A nephropathy] Banković-Calić N, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:33–6 (Eng. Abstr.) **(Scc)**

[Pathologic changes in the interstitium in IgA nephropathy] Dimitrijević J, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:29–32 (Eng. Abstr.) **(Scc)**

[Correlation of inflammatory cytokines in the urine and serum with clinico-laboratory and pathohistologic features in patients with IgA nephropathy] Maksić DJ, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:37–40 (Eng. Abstr.) **(Scc)**

PHYSIOPATHOLOGY

Plasma activity of contact coagulation factors in patients with IgA nephritis. Tan CC, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):218–21

Rat macrophages in experimental IgA nephropathy. Yi ZW, et al. **Biochem Mol Med** 1996 Apr;57(2):152–5

Clinicopathological study of IgA nephropathy in patients with congenitally reduced nephron mass. Hotta O, et al. **Clin Nephrol** 1995 Dec;44(6):362–6

Evidence for involvement of IgA1 hinge glycopeptide in the IgA1-IgA1 interaction in IgA nephropathy. Kokubo T, et al. **J Am Soc Nephrol** 1997 Jun;8(6):915–9

Role of transforming growth factor-beta 1 and -beta 2 in ddY mouse nephropathy. Ye XF, et al. **J Int Med Res** 1997 May-Jun;25(3):141-54

Early increase in blood pressure and diastolic left ventricular malfunction in patients with glomerulonephritis. Stefanski A, et al. **Kidney Int** 1996 Oct;50(4):1321-6

Correlation between glomerular morphology and renal haemodynamic response to amino-acid administration in patients with IgA nephropathy. Pluvio C, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2421-5

Paradoxical and persistent renal impairment in Henoch-Schönlein purpura after high-dose immunoglobulin therapy [letter; comment] Blanco R, et al. **Nephron** 1997;76(2):247-8. Comment on: Nephron 1995;69(3):327-34.

The renal hemodynamic response to an oral protein load is normal in IgA nephropathy. De Santo NG, et al. **Nephron** 1997;76(4):406-10

[IgA nephropathy--the most common form of glomerulonephritis] Pettersson E. **Duodecim** 1995; 111(15):1435-41 (42 ref.) **(Fin)**

[Does tonsillectomy cause any change in long-term course of IgA nephropathy?] Barta J, et al. **Orv Hetil** 1996 Dec 29;137(52):2903-6 (Eng. Abstr.) **(Hun)**

PREVENTION & CONTROL

Vitamin E ameliorates renal injury in an experimental model of immunoglobulin A nephropathy. Trachtman H, et al. **Pediatr Res** 1996 Oct;40(4):620-6

SURGERY

The fate of renal transplants in patients with IgA nephropathy. Frohnert PP, et al. **Clin Transplant** 1997 Apr; 11(2):127-33

THERAPY

Immunoglobulin A nephropathy: fish oils and beyond. Feehally J. **Curr Opin Nephrol Hypertens** 1996 Sep; 5(5):442-6 (27 ref.)

A cost analysis of the prevention of end-stage renal disease: immunoglobulin therapy for IgA nephropathy [see comments] Durand-Zaleski I, et al. **Med Decis Making** 1996 Oct-Dec;16(4):326-34. Comment in: Med Decis Making 1996 Oct-Dec;16(4):420-1.

Immunoglobulin therapy for IgA nephropathy: when is cost saving enough? [editorial; comment] Sonnenberg FA. **Med Decis Making** 1996 Oct-Dec;16(4):420-1. Comment on: Med Decis Making 1996 Oct-Dec;16(4):326-34.

Effects of weight reduction and angiotensin-converting enzyme inhibition on IgA nephropathy-associated proteinuria [letter] Kuiper JJ. **Nephron** 1996;74(2):462-3

IgA nephropathy: to treat or not to treat? Scheinman JI, et al. **Nephron** 1997;75(3):251-8 (103 ref.)

Alveolar hemorrhage in IgA nephropathy treated with plasmapheresis. Afessa B, et al. **South Med J** 1997 Feb; 90(2):237-9

The effects of hemodialysis on total intrauterine volume. Brost BC, et al. **Ultrasound Obstet Gynecol** 1996 Jul; 8(1):34-6

[The usefulness of plasmapheresis in a case of nephrotic syndrome in Berger's disease] Pergolini M, et al. **Clin Ter** 1996 Nov;147(11):543-7 (13 ref.) (Eng. Abstr.) **(Ita)**

[IgA nephropathy] Sakai H. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):95-8 (10 ref.) **(Jpn)**

URINE

Urinary IL-6/EGF ratio: a useful prognostic marker for the progression of renal damage in IgA nephropathy. Ranieri E, et al. **Kidney Int** 1996 Dec;50(6):1990-2001

Increased excretion of tumor necrosis factor alpha and interleukin 1 beta in urine from patients with IgA nephropathy and Schönlein-Henoch purpura. Wu TH, et al. **Nephron** 1996;74(1):79-88

VIROLOGY

Experimental IgA nephropathy induced by coxsackie B4 virus in mice. Yoshida K, et al. **Am J Nephrol** 1997; 17(1):81-8

Retroviral infection in peripheral mononuclear cells in patients with IgA nephropathy. Kanno Y, et al. **Clin Nephrol** 1997 Apr;47(4):211-6

Adult primary IgA nephropathy and common viral infections. Hung KY, et al. **J Infect** 1996 May;32(3):227-30

GLOMERULONEPHRITIS, LUPUS see LUPUS NEPHRITIS

GLOMERULONEPHRITIS, MEMBRANOPROLIFERATIVE

[Interferon therapy in cryoglobulinemic membranoproliferative glomerulonephritis associated with hepatitis C (letter; comment)] Jakab L. **Orv Hetil** 1997 Jan 5;138(1):43-4. Comment on: Orv Hetil 1996 Nov 10;137(45):2527-30. **(Hun)**

[Lobular glomerulonephritis] Endo M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):198-200 (15 ref.) **(Jpn)**

BLOOD

The relationship between kynurenine, catecholamines, and arterial hypertension in mesangioproliferative glomerulonephritis. Martinsons A, et al. **Adv Exp Med Biol** 1996;398:417-9

Hypocomplementaemia in a newborn caused by transplacental passage of maternal autoantibody with C3 nephritic factor (C3 NeF) activity [letter] Weiss L, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2374

Serum laminin level and disease activity in primary membranous and membranoproliferative glomerulonephritis: a prospective follow-up [letter] Segarra A, et al. **Nephron** 1996;73(2):367

CHEMICALLY INDUCED

Biphasic glomerular hypertrophy in rats administered puromycin aminonucleoside. Cahill MM, et al. **Kidney Int** 1996 Sep;50(3):768-75

CLASSIFICATION

[Mesangiocapillary glomerulonephritis] Pál K, et al. **Orv Hetil** 1996 Jun 30;137(26):1403-7 (45 ref.) (Eng. Abstr.) **(Hun)**

[Membranoproliferative glomerulonephritis type II (dense deposit disease)] Ohi H. **Ryoikibetsu Shokogun Shirizu** 1997; (16 Pt 1):208-10 (19 ref.) **(Jpn)**

[Membranoproliferative glomerulonephritis (type I, type III)] Seki M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):205-7 (12 ref.) **(Jpn)**

COMPLICATIONS

Association of primary renal non-Hodgkin's lymphoma with mesangioproliferative glomerulonephritis. Zahner J, et al. **Am J Hematol** 1996 Oct;53(2):126-32

Mixed cryoglobulinemia and membranoproliferative glomerulonephritis associated with hepatitis C virus infection [letter] Lopes E, et al. **Ann Intern Med** 1996 Nov 1;125(9):781-2

Subretinal fluid associated with membranoproliferative glomerulonephritis type 2 [letter] Polk TD, et al. **Arch Ophthalmol** 1997 Jul;115(7):927-8

Sclerosing cholangitis, inflammatory bowel disease, and glomerulonephritis: a case report of a rare triad. Presti ME, et al. **Dig Dis Sci** 1997 Apr;42(4):813-6 (11 ref.)

Mesangial lupus nephritis with associated nephrotic syndrome. Stankeviciute N, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1199-204 (13 ref.)

Severe alpha1-antitrypsin deficiency (PiZ homozygosity) with membranoproliferative glomerulonephritis and nephrotic syndrome, reversible after orthotopic liver transplantation. Elzouki AN, et al. **J Hepatol** 1997 Jun; 26(6):1403-7

Loin pain-hematuria syndrome associated with thin glomerular basement membrane disease and hemorrhage into renal tubules. Hebert LA, et al. **Kidney Int** 1996 Jan; 49(1):168-73

Membranoproliferative glomerulonephritis and haemolytic-uraemic syndrome in a patient with congenital chloride diarrhoea. Mattoo TK, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2482-4

The patient with glomerulonephritis and lipodystrophy. Meyrier A. **Nephrol Dial Transplant** 1997 Jan;12(1):226-7

Type I membranoproliferative glomerulonephritis and HCV infection. Rostoker G, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 4:22-4 (13 ref.)

Dense deposit disease in association with monoclonal gammopathy of unknown significance. Sepandj F, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2309-12

Mesangioproliferative glomerulonephritis in a patient with hepatitis C virus infection and IgA deficiency [letter] Hironaka K, et al. **Nephron** 1997;76(2):222-4

Henoch-Schönlein purpura and membranoproliferative-like glomerulonephritis. Orfila C, et al. **Nephron** 1996; 74(1):209-13

Membranoproliferative glomerulonephritis associated with insulin-dependent diabetes mellitus. A case report [letter] Yüksel B, et al. **Nephron** 1996;73(4):716-7

[Retinochoroidal involvement of type II membranoproliferative glomerulonephritis. An angiographic study with indocyanine green] Parrat E, et al. **J Fr Ophtalmol** 1997;20(6):430-8 (Eng. Abstr.) **(Fre)**

[Factors predicting chronic renal failure in membranoproliferative glomerulonephritis] Dobronravov VA. **Klin Med (Mosk)** 1996;74(7):29-33 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Multiple myeloma presenting as proliferative (crescentic) glomerulonephritis. Sirsat RA, et al. **J Postgrad Med** 1994 Apr-Jun;40(2):92-3

Outcome of pregnancy in women with glomerular diseases. Alexopoulos E, et al. **Ren Fail** 1996 Jan;18(1):121-9

DRUG THERAPY

Response to high-dose interferon-alpha after failure of standard therapy in MPGN associated with hepatitis C virus infection. Sarac E, et al. **Am J Kidney Dis** 1997 Jul; 30(1):113-5

Therapeutic effect of cytomedicine on mesangio-proliferative glomerulonephritis in human interleukin-6 transgenic mice. Okada N, et al. **Biol Pharm Bull** 1997 Mar;20(3):255-8

Decrease of mesangial matrix after immunosuppressive therapy in children with reversible membranoproliferative glomerulonephritis type I. Inaba S, et al. **Clin Nephrol** 1996 Apr;45(4):217-25

An orally active ETA/ETB receptor antagonist ameliorates proteinuria and glomerular lesions in rats with proliferative nephritis. Gómez-Garre D, et al. **Kidney Int** 1996 Sep; 50(3):962-72

Treatment of experimental mesangioproliferative glomerulonephritis with non-anticoagulant heparin: therapeutic efficacy and safety. Burg M, et al. **Lab Invest** 1997 Apr;76(4):505-16

Effectiveness of pulse cyclophosphamide plus oral steroid therapy in idiopathic membranoproliferative glomerulonephritis [letter] Töz H, et al. **Nephrol Dial Transplant** 1997 May;12(5):1081-2

Heparins for proliferative nephritides? Short review on an advancing topic. Wardle EN. **Nephron** 1996;73(4):515-9 (85 ref.)

[Interferon therapy in cryoglobulinemic membranoproliferative glomerulonephritis associated with hepatitis C virus infection (see comments)] Mátyus J, et al. **Orv Hetil** 1996 Nov 10;137(45):2527-30 (Eng. Abstr.) . Comment in: Orv Hetil 1997 Jan 5;138(1):43-4. **(Hun)**

ETIOLOGY

Interleukin-6 overexpression cannot generate serious disorders in severe combined immunodeficiency mice. Katsume A, et al. **Clin Immunol Immunopathol** 1997 Feb; 82(2):117-24

Nephrotic syndrome associated with chronic lymphocytic leukemia resistant to immunosuppressive drugs: remission obtained by splenectomy [see comments] Halimi JM, et al. **Clin Nephrol** 1996 Apr;45(4):273-6 (19 ref.). Comment in: Clin Nephrol 1997 Feb;47(2):131-3.

Membranoproliferative glomerulonephritis secondary to tuberculosis [letter] Pecchini F, et al. **Clin Nephrol** 1997 Jan;47(1):63-4

Mesangial proliferative glomerulonephritis and nephrotic syndrome with hepatitis A virus infection. Mathur RC, et al. **Indian Pediatr** 1996 Dec;33(12):1051-3

Cirrhotic glomerulonephritis: an underdiagnosed condition. Ori Y, et al. **Isr J Med Sci** 1996 Dec;32(12):1222-4

Reversible nephrotic syndrome due to mesangiocapillary glomerulonephritis secondary to hepatic hydatid disease. Covic A, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2074-6

Glomerular disease during HCV infection in renal transplantation. Hammoud H, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:54-5

Recurrence of membranoproliferative glomerulonephritis after renal transplantation in a patient with chronic hepatitis C. Brunkhorst R, et al. **Nephron** 1996;72(3):465-7

Wilson cirrhosis associated with membranoproliferative glomerulonephritis [letter] Gündüz Z, et al. **Nephron** 1996; 74(2):497-8

Malignancy-associated membranoproliferative glomerulonephritis. Rahman RC, et al. **Pediatr Nephrol** 1997 Apr;11(2):208-9

Recurrence of type I membranoproliferative glomerulonephritis after renal transplantation: analysis of the incidence, risk factors, and impact on graft survival. Andresdottir MB, et al. **Transplantation** 1997 Jun 15; 63(11):1628-33

Recurrent type III membranoproliferative glomerulonephritis after kidney transplantation. Morales JM, et al. **Transplantation** 1997 Apr 27;63(8):1186-8

[Light and heavy chain deposition disease with cutaneous and renal manifestations] Safa G, et al. **Ann Dermatol Venereol** 1996;123(8):490-2 (Eng. Abstr.) **(Fre)**

GENETICS

Characterization of complement C6 deficiency in a PVG/c rat strain. van Dixhoorn MG, et al. **Clin Exp Immunol** 1997 Aug;109(2):387-96

Expression of the transcriptional regulator Egr-1 in experimental glomerulonephritis: requirement for mesangial cell proliferation. Rupprecht HD, et al. **Kidney Int** 1997 Mar;51(3):694-702

[Egr-1 transcription factor regulates the growth of glomerular mesangium cells] Rupprecht HD, et al. **Med Klin** 1997 Feb 15;92(2):68-73 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Discordant renal histopathologic findings and complement profiles in membranoproliferative glomerulonephritis type III. Meyers KE, et al. **Am J Kidney Dis** 1996 Dec; 28(6):804-10

Anti-GOR in chronic HCV patients with membranoproliferative glomerulonephritis. Nelson DR, et al. **J Hepatol** 1996 Feb;24(2):248

Role of the complement membrane attack complex (C5b-9) in mediating experimental mesangioproliferative glomerulonephritis. Brandt J, et al. **Kidney Int** 1996 Feb; 49(2):335-43

IgG subclasses in patients with membranoproliferative glomerulonephritis, membranous nephropathy, and lupus nephritis. Imai H, et al. **Kidney Int** 1997 Jan;51(1):270-6

Glomerulonephritis with predominant paramesangial IgG deposition. Kano K, et al. **Pathol Int** 1996 Apr;46(4):306–9

METABOLISM

Intercellular adhesion molecule–1, intercellular adhesion molecule–3, and leukocyte integrins in leukocyte accumulation in membranoproliferative glomerulonephritis type I. Soma J, et al. **Am J Kidney Dis** 1996 Nov; 28(5):685–94

Hepatitis C virus–related proteins in kidney tissue from hepatitis C virus–infected patients with cryoglobulinemic membranoproliferative glomerulonephritis. Sansonno D, et al. **Hepatology** 1997 May;25(5):1237–44

De novo CD44 expression by proliferating mesangial cells in rat anti–Thy–1 nephritis. Nikolic–Paterson DJ, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1006–14

Altered synthesis of interferon–gamma and expression of interferon–gamma receptor by peripheral blood mononuclear cells from patients with IgA nephropathy and non–IgA proliferative glomerulonephritis. Yano N, et al. **J Clin Immunol** 1996 Jan;16(1):71–9

Activation of extracellular signal–regulated kinase in proliferative glomerulonephritis in rats. Bokemeyer D, et al. **J Clin Invest** 1997 Aug 1;100(3):582–8

MICROBIOLOGY

Proliferative glomerulonephritis revealing chronic Q fever. Vacher–Coponat H, et al. **Am J Nephrol** 1996;16(2):159–61

PARASITOLOGY

Immunoglobulin–A and the pathogenesis of schistosomal glomerulopathy. Barsoum R, et al. **Kidney Int** 1996 Sep; 50(3):920–8

PATHOLOGY

Discordant renal histopathologic findings and complement profiles in membranoproliferative glomerulonephritis type III. Meyers KE, et al. **Am J Kidney Dis** 1996 Dec; 28(6):804–10

Glomerulointerstitial interaction of adhesion molecules in IgA nephropathy and membranoproliferative glomerulonephritis. Ootaka T, et al. **Am J Kidney Dis** 1997 Jun;29(6):843–50

Role of interleukin–1 in mesangial cell proliferation and matrix deposition in experimental mesangioproliferative nephritis. Tesch GH, et al. **Am J Pathol** 1997 Jul; 151(1):141–50

Interstitial tissue fraction. The prognostic marker in membranoproliferative glomerulonephritis in children. Wrzołkowa T, et al. **Anal Quant Cytol Histol** 1997 Feb; 19(1):8–12

Long–term clinical and morphological evaluation of primary membranoproliferative glomerulonephritis. Wu MJ, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan;57(1):34–41

Cirrhotic glomerulonephritis: an underdiagnosed condition. Ori Y, et al. **Isr J Med Sci** 1996 Dec;32(12):1222–4

Structural and ultrastructural study of glomerular changes in African swine fever. Hervás J, et al. **J Comp Pathol** 1996 Jul;115(1):61–75

Quantitative analysis of glomeruli lesions in patients with mesangial proliferative glomerulonephritis. Sun J, et al. **J Tongji Med Univ** 1996;16(2):106–10

Monocyte recruitment in cryoglobulinemic membranoproliferative glomerulonephritis: a pathogenetic role for monocyte chemotactic peptide–1. Gesualdo L, et al. **Kidney Int** 1997 Jan;51(1):155–63

Expression of the transcriptional regulator Egr–1 in experimental glomerulonephritis: requirement for mesangial cell proliferation. Rupprecht HD, et al. **Kidney Int** 1997 Mar;51(3):694–702

The nonspecificity of focal segmental glomerulosclerosis. The defining characteristics of primary focal glomerulosclerosis, mesangial proliferation, and minimal change. McAdams AJ, et al. **Medicine (Baltimore)** 1997 Jan;76(1):42–52

Glomerulonephritis with predominant paramesangial IgG deposition. Kano K, et al. **Pathol Int** 1996 Apr;46(4):306–9

C3 nephritic factor and mesangiocapillary glomerulonephritis. Williams DG. **Pediatr Nephrol** 1997 Feb;11(1):96–8 (13 ref.)

Quantitative analysis of primary proliferative mesangial glomerulonephritis (PMGN) and diffuse form of idiopathic IgA nephropathy (IgAN). Variants of the same morphological process? Danilewicz M, et al. **Pol J Pathol** 1996;47(2):73–8

Mesangiocapillary glomerulonephritis type III and idiopathic membranous glomerulopathy. Morphometric comparison of the deposits and glomerular basement membrane including clinico–morphological correlations. Danilewicz M, et al. **Pol J Pathol** 1997;48(1):43–8

Morphological and clinical aspects of membrano–proliferative glomerulonephritis in children. Salwa–Zurawska W, et al. **Pol J Pathol** 1996;47(4):215–24

Long–term clinical course and histopathologic scoring in acute crescentic glomerulonephritis. Bach D, et al. **Ren Fail** 1997 Jan;19(1):85–98

Case for the panel. Unusual ultrastructural association between erythrocytes and glomerular endothelial cells in patients with membranoproliferative glomerulonephritis. Ghadially FN, et al. **Ultrastruct Pathol** 1996 May–Jun; 20(3):285–90

[Expression of FGF2, FGF receptor–1 and alpha–smooth muscle actin in experimental mesangial proliferative nephritis] Jyo Y. **Nippon Jinzo Gakkai Shi** 1996 Dec; 38(12):545–54 (Eng. Abstr.) **(Jpn)**

[Idiopathic membranoproliferative glomerulonephritis (structural–functional relationship)] Banković–Calić N, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:26–9 (Eng. Abstr.) **(Scc)**

PHYSIOPATHOLOGY

The relationship between kynurenine, catecholamines, and arterial hypertension in mesangioproliferative glomerulonephritis. Martinsons A, et al. **Adv Exp Med Biol** 1996;398:417–9

Retinal function abnormalities in membranoproliferative glomerulonephritis type II. Kim RY, et al. **Am J Ophthalmol** 1997 May;123(5):619–28

SURGERY

Nephrotic syndrome associated with chronic lymphocytic leukemia resistant to immunosuppressive drugs: remission obtained by splenectomy [see comments] Halimi JM, et al. **Clin Nephrol** 1996 Apr;45(4):273–6 (19 ref.). Comment in: Clin Nephrol 1997 Feb;47(2):131–3.

Recurrent type I membranoproliferative glomerulonephritis after renal transplantation and protective role of cyclosporine in acute crescentic transformation. Ahsan N, et al. **Clin Transplant** 1997 Feb;11(1):9–14

VETERINARY

Eradication of porcine factor H deficiency in Norway. Høgåsen K, et al. **Vet Rec** 1997 Apr 12;140(15):392–5

VIROLOGY

Is there a hepatitis C virus–associated membranoproliferative glomerulonephritis? [letter] Stehman–Breen C, et al. **Am J Kidney Dis** 1997 Oct;30(4):589–90

Hepatitis C virus–associated membranoproliferative glomerulonephritis in renal allografts. Cruzado JM, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2469–75

Renal disease in hepatitis C–positive liver transplant recipients. Kendrick EA, et al. **Transplantation** 1997 May 15;63(9):1287–93

Hepatitis–B–associated glomerulonephritis in children. Oner A, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):239–46

GLOMERULONEPHRITIS, MEMBRANOUS

Idiopathic membranous nephropathy in the elderly: a comparative study. Zent R, et al. **Am J Kidney Dis** 1997 Feb;29(2):200–6

Pregnancy in partially remitted hepatitis B–associated membranous glomerulonephritis. Bates WD, et al. **Int J Gynaecol Obstet** 1996 Feb;52(2):163–5

Renal disease. II. Membranous nephropathy. Mathieson P. **J R Coll Physicians Lond** 1997 Mar–Apr;31(2):133–7 (23 ref.)

BLOOD

Serum laminin level and disease activity in primary membranous and membranoproliferative glomerulonephritis: a prospective follow–up [letter] Segarra A, et al. **Nephron** 1996;73(2):367

CHEMICALLY INDUCED

Membranous nephropathy associated with the use of flurbiprofen [letter] MacKay K. **Clin Nephrol** 1997 Apr; 47(4):279–80

Membranous nephropathy associated with oxaprozin treatment [letter] Ogawa M, et al. **Nephron** 1996; 74(2):439–40

[A post–thymomectomy case of myasthenia gravis which developed nephrotic syndrome with membranous nephropathy during azathioprine administration] Konishi T, et al. **Rinsho Shinkeigaku** 1996 Jul;36(7):864–8 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Sjögren's syndrome with membranous glomerulonephritis detected by urine screening of schoolchildren. Yoshida K, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):533–6 (13 ref.)

Systemic lupus erythematosus with membranous glomerulonephritis and uterine vasculitis. Feriozzi S, et al. **Am J Kidney Dis** 1997 Feb;29(2):277–9

Isolated hematuria in adults: IgA nephropathy is a predominant cause of hematuria compared with thin glomerular basement membrane nephropathy. Tanaka H, et al. **Am J Nephrol** 1996;16(5):412–6

Nephrotic syndrome due to membranous nephropathy associated with renal cell carcinoma. Nishibara G, et al. **Clin Nephrol** 1996 Jun;45(6):424

A case of membranous glomerulonephritis associated with Recklinghausen's neurofibromatosis. Tóth T, et al. **Clin Nephrol** 1996 Apr;45(4):271–2 (10 ref.)

Membranous nephropathy in primary antiphospholipid syndrome: description of a case and induction of renal injury in SCID mice. Levy Y, et al. **Hum Antibodies Hybridomas** 1996;7(3):91–6

Acute renal failure in membranous glomerulonephropathy: a result of superimposed crescentic glomerulonephritis. James SH, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1541–6

Depletion of glomerular anionic sites and proteineuria in nephrotic syndrome of children. Ramjee G, et al. **J Trop Pediatr** 1997 Jun;43(3):149–52

Membranous nephropathy associated with an inflammatory myelopathy. Crowe AV, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1625–6

Coincidence of myasthenia gravis and antiglomerular basement membrane glomerulonephritis: a combination of two antibody–mediated autoimmune diseases on day 15. Drube S, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1478–80

Acute inferior vena cava thrombosis in a patient with membranous nephropathy treated by rt–PA lysis. Jeremiah P, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):195–7

Association of vasculitic glomerulonephritis with membranous nephropathy: a report of 10 cases. Tse WY, et al. **Nephrol Dial Transplant** 1997 May;12(5):1017–27 (39 ref.)

Membranous nephropathy complicating adenolymphoma of the parotid (Warthin's tumour). Kon SP, et al. **Nephron** 1996;73(4):692–4

[Therapy of nephrotic syndrome in membranous glomerulonephritis] Kovačević Z, et al. **Vojnosanit Pregl** 1997 Mar–Apr;54(2):161–5 (54 ref.) **(Scr)**

DIAGNOSIS

Idiopathic membranous nephropathy in identical twins. Guella A, et al. **Am J Kidney Dis** 1997 Jan;29(1):115–8 (20 ref.)

AIDS–associated membranous nephropathy with advanced renal failure: response to prednisone. Mattana J, et al. **Am J Kidney Dis** 1997 Jul;30(1):116–9

An adolescent with relapsing nephrotic syndrome: minimal–change disease versus focal–segmental glomerulosclerosis versus C1q nephropathy. Shappell SB, et al. **Am J Kidney Dis** 1997 Jun;29(6):966–70

IgM nephropathy in a patient with combined deficiency of IgA, IgG2 and IgG4 [letter] Oymak O. **Clin Nephrol** 1997 Mar;47(3):202–3

DRUG THERAPY

AIDS–associated membranous nephropathy with advanced renal failure: response to prednisone. Mattana J, et al. **Am J Kidney Dis** 1997 Jul;30(1):116–9

The renoprotective properties of angiotensin–converting enzyme inhibitors in a chronic model of membranous nephropathy are solely due to the inhibition of angiotensin II: evidence based on comparative studies with a receptor antagonist. Zoja C, et al. **Am J Kidney Dis** 1997 Feb; 29(2):254–64

Effect of long–term treatment with insulin and/or acarbose on glomerular basement membrane thickening in alloxan–diabetic rats. Macedo CS, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1329–35

Complete remission of nephrotic syndrome after steroid–chlorambucil in a previous failed short–term steroidal treatment of a primary membranous nephropathy [letter] Ardiles LG, et al. **Clin Nephrol** 1996 Jun;45(6):423

Therapy of membranous nephropathy with severe azotemia [letter] Prabhakar S, et al. **Clin Nephrol** 1996 Jun;45(6):419

Cytotoxics, cyclosporine and membranous nephropathy. Cattran DC. **Curr Opin Nephrol Hypertens** 1996 Sep; 5(5):427–36 (53 ref.)

Omega–3 fatty acid supplementation and lipoprotein(a) concentrations in patients with chronic glomerular diseases. Lenzi S, et al. **Nephron** 1996;72(3):383–90

Relapsing membranous nephropathy with a good response to steroid therapy [letter] Tsukada Y, et al. **Nephron** 1997; 76(2):218–21

[The therapy of membranous glomerulopathy] Ratner MIa. **Ter Arkh** 1996;68(4):86–8 (25 ref.) **(Rus)**

ETIOLOGY

Membranous glomerulonephritis in rheumatoid arthritis unrelated to gold, D–penicillamine or other connective tissue disease. Zarza LP, et al. **Clin Rheumatol** 1996 Jul; 15(4):385–8

Nephrotic syndrome—a rare presenting feature in non–Hodgkin's lymphoma. Tripathi AK, et al. **J Assoc Physicians India** 1995 Feb;43(2):130

Validation of a predictive model of idiopathic membranous nephropathy: its clinical and research implications. Cattran DC, et al. **Kidney Int** 1997 Mar;51(3):901–7

Prognosis of idiopathic membranous nephropathy: a methodologic meta–analysis. Marx BE, et al. **Kidney Int** 1997 Mar;51(3):873–9

Membranous glomerulonephritis associated with hepatitis C virus infection in renal transplant patients. Morales JM, et al. **Transplantation** 1997 Jun 15;63(11):1634–9

[Extramembranous glomerulonephritis and cysticercosis] Rabenantoandro R, et al. **Sante** 1996 Jul–Aug;6(4):254–7 (Eng. Abstr.) **(Fre)**

[A case of Sjögren's syndrome complicated by membranous nephropathy] Kosugi E, et al. **Nippon Jinzo Gakkai Shi** 1996 Sep;38(9):413–6 (Eng. Abstr.) **(Jpn)**

GENETICS

Molecular biology of human glomerular diseases. Striker LJ, et al. **Kidney Int Suppl** 1997 Mar;58:S62–5

Genetic study of gold-salt-induced immune disorders in the rat. Kermarrec N, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2187–91

[Molecular pathogenesis of experimental membraneous glomerulonephritis (Heymann nephritis)] Kerjaschki D. **Pathologe** 1996 Jul;17(4):262–8 (45 ref.) (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

CD44 and hyaluronan expression in the development of experimental crescentic glomerulonephritis. Jun Z, et al. **Clin Exp Immunol** 1997 Apr;108(1):69–77

Chemokines are expressed in a myeloid cell-dependent fashion and mediate distinct functions in immune complex glomerulonephritis in rat. Wu X, et al. **J Immunol** 1997 Apr 15;158(8):3917–24

IgG subclasses in patients with membranoproliferative glomerulonephritis, membranous nephropathy, and lupus nephritis. Imai H, et al. **Kidney Int** 1997 Jan;51(1):270–6

Defect of cell-mediated immune response against hepatitis B virus: an indication for pathogenesis of hepatitis-B-virus-associated membranous nephropathy. Lin CY, et al. **Nephron** 1997;76(2):176–85

[Molecular analysis of experimental membranous glomerulonephritis (Heymann nephritis)] Kerjaschki D. **Verh Dtsch Ges Pathol** 1996;80:139–47 (45 ref.) (Eng. Abstr.) **(Ger)**

METABOLISM

IgM nephropathy in a patient with combined deficiency of IgA, IgG2 and IgG4 [letter] Oymak O. **Clin Nephrol** 1997 Mar;47(3):202–3

Kidney iron status in passive Heymann nephritis and the effect of an iron-deficient diet. Baliga R, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1183–8

The localization of plasminogen activator inhibitor-1 in glomerular subepithelial deposits in membranous nephropathy. Nakamura T, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2434–44

Differential expression of transforming growth factor-beta isoforms and receptors in experimental membranous nephropathy. Shankland SJ, et al. **Kidney Int** 1996 Jul; 50(1):116–24

Spectrum of diurnal rhythms in glomerular permeability in patients with membranous nephropathy. Koopman MG, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:47–52

Molecular analysis of glomerular diseases in renal biopsies: initial results of a collaborative international study. The International Study Group for Molecular Study of Kidney Biopsies. Esposito C, et al. **Proc Assoc Am Physicians** 1996 May;108(3):209–17

PATHOLOGY

Clinicopathological characteristics of the focal and segmental form of idiopathic membranous nephropathy: comparison with the typical form of this disease. Yamamoto S, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):349–53

Molecular configuration and glomerular size selectivity in healthy and nephrotic humans. Blouch K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F430–7

Lupus and nonlupus membranous glomerulopathy. Quantitative comparison of the subepithelial deposits and glomerular basement membrane including clinicomorphologic correlations. Danilewicz M, et al. **Gen Diagn Pathol** 1997 Jun;142(5–6):305–10

Interstitial myofibroblasts: predictors of progression in membranous nephropathy. Roberts IS, et al. **J Clin Pathol** 1997 Feb;50(2):123–7

Membranous glomerulonephritis. Ulrich W. **Nephrol Dial Transplant** 1996 Oct;11(10):2099–100

Anti-glomerular basement membrane glomerulopathy in a young child. Boven K, et al. **Pediatr Nephrol** 1996 Dec; 10(6):745–7

Mesangiocapillary glomerulonephritis type III and idiopathic membranous glomerulopathy. Morphometric comparison of the deposits and glomerular basement membrane including clinico-morphological correlations. Danilewicz M, et al. **Pol J Pathol** 1997;48(1):43–8

Case for the panel. When is a spike truly a spike? Brief observations from a pediatric renal biopsy population. Herrera G. **Ultrastruct Pathol** 1997 Jan–Feb;21(1):89–92

[Molecular analysis of experimental membranous glomerulonephritis (Heymann nephritis)] Kerjaschki D. **Verh Dtsch Ges Pathol** 1996;80:139–47 (45 ref.) (Eng. Abstr.) **(Ger)**

[Membranous nephropathy in Japanese children] Tomonaga K, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec;38(12):603–9 (Eng. Abstr.) **(Jpn)**

[Analysis of intraglomerular and interstitial infiltration of leukocytes in membranous nephropathy with focal segmental glomerulosclerosis] Yusa A, et al. **Nippon Jinzo Gakkai Shi** 1996 Jun;38(6):239–47 (Eng. Abstr.) **(Jpn)**

[Membranous nephropathy] Kida H, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):201–4 (8 ref.) **(Jpn)**

[Pathohistologic and ultrastructural features of drug-induced membranous glomerulonephritis] Pospishil' IuA. **Arkh Patol** 1996 Sep–Oct;58(5):52–6 (Eng. Abstr.) **(Rus)**

[Membranous glomerulonephritis] Polenaković M. **Srp Arh Celok Lek** 1996;124 Suppl 1:18–25 (Eng. Abstr.) **(Scc)**

PHYSIOPATHOLOGY

Molecular configuration and glomerular size selectivity in healthy and nephrotic humans. Blouch K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F430–7

A case of membranous nephropathy exacerbated after the use of hair dye [letter] Aburaya J. **Nephron** 1996; 74(2):449–51

SURGERY

Membranous nephropathy: recurrence after kidney transplantation. Marcen R, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1129–33

THERAPY

A prospective clinical trial comparing the treatment of idiopathic membranous nephropathy and nephrotic syndrome with simvastatin and diet, versus diet alone. Rayner BL, et al. **Clin Nephrol** 1996 Oct;46(4):219–24

Goodpasture's syndrome superimposed on membranous nephropathy. A case report. Thitiarchakul S, et al. **Int J Artif Organs** 1995 Dec;18(12):763–5

Long-term response of renal function in crescentic membranous glomerulonephritis after plasma exchange and immunosuppressive therapy [letter] Salvidio G, et al. **Nephron** 1996;73(2):340–1

Anti-glomerular basement membrane nephritis in a 5-year-old girl. Brito MJ, et al. **Pediatr Nephrol** 1997 Feb; 11(1):80–1

[At a glance--joint amyloidosis in a dialysis patient] **Schweiz Med Wochenschr** 1996 Dec 28;126(51–52):2244 **(Ger)**

URINE

Urinary IgG excretion as a prognostic factor in idiopathic membranous nephropathy. Reichert LJ, et al. **Clin Nephrol** 1997 Aug;48(2):79–84

Membranous glomerulonephritis with primary Sjögren's syndrome detected by urine screening of school children [letter] Yoshida K, et al. **Clin Nephrol** 1996 Jun;45(6):422

Urinary excretion of beta 2-microglobulin predicts renal outcome in patients with idiopathic membranous nephropathy. Reichert LJ, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1666–9

VIROLOGY

Differential localization of s and e antigens in hepatitis B virus-associated glomerulonephritis. Ohba S, et al. **Clin Nephrol** 1997 Jul;48(1):44–7

Hepatitis-B-associated glomerulonephritis in children. Oner A, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):239–46

GLOMERULONEPHRITIS, MESANGIOCAPILLARY see **GLOMERULONEPHRITIS, MEMBRANOPROLIFERATIVE**

GLOMERULONEPHRITIS, MINIMAL CHANGE see **NEPHROSIS, LIPOID**

GLOMERULOSCLEROSIS, DIABETIC see **DIABETIC NEPHROPATHIES**

GLOMERULOSCLEROSIS, FOCAL

BLOOD

Cyclosporine protects glomeruli from FSGS factor via an increase in glomerular cAMP. Sharma R, et al. **Transplantation** 1996 Dec 27;62(12):1916–20

[Thrombocyto- and coagulopathies in patients with diabetic glomerulosclerosis and chronic glomerulonephritis] Lapchyns'ka II, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):74–7 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED

The ovaries attenuate the aggravating effect of testosterone on glomerular injury in Adriamycin-induced nephropathy of female rats. Sakemi T, et al. **Kidney Blood Press Res** 1997;20(1):44–50

Severe cyclosporine arteriolopathy with focal segmental glomerulosclerosis is not a fatal finding in chronic renal allograft failure after year 5 of transplantation using cyclosporine. Takeda A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):96–9

COMPLICATIONS

Mitochondrial encephalomyopathies preceded by de-Toni-Debré-Fanconi syndrome or focal segmental glomerulosclerosis. Mochizuki H, et al. **Clin Nephrol** 1996 Nov;46(5):347–52

Clinical and morphological predictors of renal outcome in adult patients with focal and segmental glomerulosclerosis (FSGS). Shiiki H, et al. **Clin Nephrol** 1996 Dec;46(6):362–8

A child with nephrotic syndrome and with focal and segmental glomerulosclerosis: do we have to care about associated malformations? Ehrich JH, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2096–8 (29 ref.)

DIAGNOSIS

Membranous lupus nephritis with antineutrophil cytoplasmic antibody-associated segmental necrotizing and crescentic glomerulonephritis. Marshall S, et al. **Am J Kidney Dis** 1997 Jan;29(1):119–24 (28 ref.)

An adolescent with relapsing nephrotic syndrome: minimal-change disease versus focal-segmental glomerulosclerosis versus C1q nephropathy. Shappell SB, et al. **Am J Kidney Dis** 1997 Jun;29(6):966–70

Comparison of noninvasive methods for distinguishing steroid-sensitive nephrotic syndrome from focal glomerulosclerosis. Ramjee G, et al. **J Lab Clin Med** 1997 Jan;129(1):47–52

Outcome of pregnancy in women with glomerular diseases. Alexopoulos E, et al. **Ren Fail** 1996 Jan;18(1):121–9

[35-year-old patient with eyelid and ankle edema after foreign travel] Encke J, et al. **Internist (Berl)** 1997 May; 38(5):474–8 **(Ger)**

DRUG THERAPY

A randomized double-blind placebo-controlled trial of cyclosporine in steroid-resistant idiopathic focal segmental glomerulosclerosis in children. Lieberman KV, et al. **J Am Soc Nephrol** 1996 Jan;7(1):56–63

Renal disease. II. The treatment of minimal change nephropathy and focal segmental glomerulosclerosis. Mason PD. **J R Coll Physicians Lond** 1997 Mar–Apr; 31(2):137–41 (20 ref.)

The treatment of minimal change nephropathy and focal segmental glomerulosclerosis [letter] Milford DV. **J R Coll Physicians Lond** 1997 Jul–Aug;31(4):468

Testosterone does not eliminate the attenuating effect of estrogen on progressive glomerular injury in estrogen-treated hypercholesterolemic male Imai rats. Sakemi T, et al. **Kidney Blood Press Res** 1997;20(1):51–6

The molecular basis of increased glomerulosclerosis after blockade of the renin angiotensin system in growth hormone transgenic mice. Peten EP, et al. **Mol Med** 1994 Nov;1(1):104–15

Focal segmental glomerular sclerosis. To treat or not to treat? 1. It is worthwhile to give the adult patient with nephrotic syndrome the benefit of an adequate therapeutic trial? Ponticelli C. **Nephrol Dial Transplant** 1995 Dec; 10(12):2351–4 (26 ref.)

Effect of a nonpeptide vasopressin V1 antagonist (OPC-21268) on experimental accelerated focal glomerulosclerosis. Kurihara I, et al. **Nephron** 1996; 73(4):629–36

Effect of vitamin E on antioxidant enzymes, lipid peroxidation products and glomerulosclerosis in the rat remnant kidney. Van den Branden C, et al. **Nephron** 1997; 76(1):77–81

Intensive pulse therapies for focal glomerulosclerosis in South African children. Adhikari M, et al. **Pediatr Nephrol** 1997 Aug;11(4):423–8

Focal segmental glomerulosclerosis [letter; comment] Glassock RJ. **Pediatr Nephrol** 1997 Feb;11(1):129. Comment on: Pediatr Nephrol 1996 Jun;10(3):374–91.

Cyclophosphamide does not benefit patients with focal segmental glomerulosclerosis. A report of the International Study of Kidney Disease in Children. Tarshish P, et al. **Pediatr Nephrol** 1996 Oct;10(5):590–3

Steroid-resistant nephrotic focal segmental glomerulosclerosis: a treatable disease. Tune BM, et al. **Pediatr Nephrol** 1996 Dec;10(6):772–8 (53 ref.)

[The prognosis and control of the efficacy of heparin therapy in patients with diabetic glomerulosclerosis] Pyrig LA, et al. **Klin Med (Mosk)** 1996;74(2):32–5 (Eng. Abstr.) **(Rus)**

[Cyclosporine in the treatment of primary focal-segmental glomerulosclerosis] Pavlović S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:51–3 (Eng. Abstr.) **(Scc)**

ENZYMOLOGY

Glomerular metalloprotease activity modulates the development of focal segmental glomerulosclerosis. Sagar S, et al. **Clin Nephrol** 1995 Dec;44(6):356–61

Effect of vitamin E on antioxidant enzymes, lipid peroxidation products and glomerulosclerosis in the rat remnant kidney. Van den Branden C, et al. **Nephron** 1997; 76(1):77–81

EPIDEMIOLOGY

The significance of focal and segmental hyalinosis and sclerosis (FSHS) and nephrotic range proteinuria in IgA nephropathy. Packham DK, et al. **Clin Nephrol** 1996 Oct; 46(4):225–9

ETHNOLOGY

Focal segmental glomerulosclerosis in adult African Americans. Bakir AA, et al. **Clin Nephrol** 1996 Nov; 46(5):306–11

ETIOLOGY

Renal artery stenosis and unilateral focal and segmental

glomerulosclerosis. Alkhunaizi AM, et al. **Am J Kidney Dis** 1997 Jun;29(6):936–41

Focal segmental glomerulosclerosis in one of two "en bloc" pediatric transplanted kidneys. Barama A, et al. **Am J Kidney Dis** 1997 Aug;30(2):271–4

Renal vasculitis with HIV seropositivity: potential manifestation of cytomegalovirus infection. Chertow GM, et al. **Am J Kidney Dis** 1997 Sep;30(3):428–32

Focal segmental glomerulosclerosis with acute renal failure associated with alpha-interferon therapy. Coroneos E, et al. **Am J Kidney Dis** 1996 Dec;28(6):888–92

Have we ignored the role of oncotic pressure in the pathogenesis of glomerulosclerosis? Johnson RJ. **Am J Kidney Dis** 1997 Jan;29(1):147–52 (61 ref.)

Experimental glomerulosclerosis: Defektheilung of the kidney. Schiller B, et al. **Artif Organs** 1996 May; 20(5):445–50 (50 ref.)

Haemodynamically mediated glomerular injury: the end of a 15-year-old controversy? Zatz R. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):468–75 (81 ref.)

Early influx of glomerular macrophages precedes glomerulosclerosis in the obese Zucker rat model. Lavaud S, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2604–15

Role of endothelin in the development of glomerulosclerosis. Remuzzi G. **Kidney Blood Press Res** 1996;19(3-4):182–3 (7 ref.)

Dilemma of focal segmental glomerular sclerosis. Cortes L, et al. **Kidney Int Suppl** 1996 Jan;53:S57–63 (71 ref.)

Progressive renal failure--inability of podocytes to replicate and the consequences for development of glomerulosclerosis. Kriz W. **Nephrol Dial Transplant** 1996 Sep;11(9):1738–42 (16 ref.)

Development of focal segmental sclerosis and hyalinosis in hemolytic uremic syndrome. Caletti MG, et al. **Pediatr Nephrol** 1996 Dec;10(6):687–92

[A role for reactive oxygen species in the pathogenesis of focal glomerulosclerosis] Kawamoto S, et al. **Nippon Jinzo Gakkai Shi** 1996 Nov;38(11):484–92 (Eng. Abstr.) **(Jpn)**

[Focal segmental glomerulosclerosis presenting nephrotic syndrome and acute renal failure in a patient with rheumatoid arthritis] Sugiyama T, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):426–30 (Eng. Abstr.) **(Jpn)**

GENETICS

Familial focal segmental glomerulosclerosis: nine cases in four families and review of the literature. Faubert PF, et al. **Am J Kidney Dis** 1997 Aug;30(2):265–70 (22 ref.)

Endothelin-1 transgenic mice develop glomerulosclerosis, interstitial fibrosis, and renal cysts but not hypertension. Hocher B, et al. **J Clin Invest** 1997 Mar 15;99(6):1380–9

METABOLISM

Oxidant/antioxidant balance in isolated glomeruli and cultured mesangial cells. Ruiz-Torres P, et al. **Free Radic Biol Med** 1997;22(1-2):49–56

Dietary antioxidant inhibits lipoprotein oxidation and renal injury in experimental focal segmental glomerulosclerosis. Lee HS, et al. **Kidney Int** 1997 Apr;51(4):1151–9

Altered expression of fibrogenic growth factors in IgA nephropathy and focal and segmental glomerulosclerosis. Stein-Oakley AN, et al. **Kidney Int** 1997 Jan;51(1):195–204

Modulation of glomerular sclerosis and interstitial fibrosis by native and modified lipoproteins. Gröne HJ, et al. **Kidney Int Suppl** 1996 May;54:S18–22 (28 ref.)

Differential expression of glomerular extracellular matrix and growth factor mRNA in rapid and slowly progressive glomerulosclerosis: studies in mice transgenic for native or mutated growth hormone. Yang CW, et al. **Lab Invest** 1997 Apr;76(4):467–76

Focal glomerulosclerosis in the remnant kidney model--an inflammatory disease mediated by cytokines. Schiller B, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):430–7

Roles of TGF-beta and latent TGF-beta-binding protein in glomerulosclerosis induced by two consecutive injections of monoclonal antibody 1-22-3 in rats. Nakayama M, et al. **Nephron** 1997;76(1):82–9

[Strengthen the study on the relation between cytokines and glomerulosclerosis (editorial)] Chen X. **Chung Hua I Hsueh Tsa Chih** 1996 Jun;76(6):403–4 **(Chi)**

PATHOLOGY

Focal segmental glomerulosclerosis in primates infected with a simian immunodeficiency virus. Alpers CE, et al. **AIDS Res Hum Retroviruses** 1997 Mar 20;13(5):413–24

Focal segmental glomerulosclerosis associated with nephrotic syndrome in cholesterol atheroembolism: clinicopathological correlations. Greenberg A, et al. **Am J Kidney Dis** 1997 Mar;29(3):334–44

The significance of glomerular hypertrophy in focal segmental glomerulosclerosis. Lee HS, et al. **Clin Nephrol** 1995 Dec;44(6):349–55

Gamma-heavy chain deposition disease showing nodular glomerulosclerosis. Yasuda T, et al. **Clin Nephrol** 1995 Dec; 44(6):394–9

Inner ear defect similar to Alport's syndrome in the glomerulosclerosis mouse model Mpv17. Meyer zum Gottesberge AM, et al. **Eur Arch Otorhinolaryngol** 1996; 253(8):470–4

Supplementation with L-2-oxothiazolidine-4-carboxylic acid, a cysteine precursor, does not protect against lipid peroxidation in puromycin aminonucleoside-induced nephropathy. Fawcett JP, et al. **Exp Nephrol** 1996 Jul-Aug; 4(4):248–52

Focal glomerulosclerosis and maximal glomerular hypertrophy in human nephronopenia. Bhathena DB. **J Am Soc Nephrol** 1996 Dec;7(12):2600–3

Serial morphometric analysis of sclerotic lesions in primary "focal" segmental glomerulosclerosis. Fuiano G, et al. **J Am Soc Nephrol** 1996 Jan;7(1):49–55

Early influx of glomerular macrophages precedes glomerulosclerosis in the obese Zucker rat model. Lavaud S, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2604–15

A frequent pathway to glomerulosclerosis: deterioration of tuft architecture-podocyte damage-segmental sclerosis. Kriz W, et al. **Kidney Blood Press Res** 1996;19(5):245–53 . (33 ref.)

Age-related glomerulosclerosis and interstitial fibrosis in Milan normotensive rats: a podocyte disease. Floege J, et al. **Kidney Int** 1997 Jan;51(1):230–43

Apoptosis in glomerular sclerosis. Sugiyama H, et al. **Kidney Int** 1996 Jan;49(1):103–11

Idiopathic collapsing focal segmental glomerulosclerosis: a clinicopathologic study. Valeri A, et al. **Kidney Int** 1996 Nov;50(5):1734–46

The enigma of focal segmental glomerulosclerosis. Cameron JS. **Kidney Int Suppl** 1996 Dec;57:S119–31 (77 ref.)

The nonspecificity of focal segmental glomerulosclerosis. The defining characteristics of primary focal glomerulosclerosis, mesangial proliferation, and minimal change. McAdams AJ, et al. **Medicine (Baltimore)** 1997 Jan;76(1):42–52

Glomerular involvement in type II diabetes - is it all diabetic glomerulosclerosis? [editorial] Cordonnier D. **Nephrol Dial Transplant** 1996 Jun;11(6):936–8 (18 ref.)

Attenuating effect of castration on glomerular injury is age-dependent in unilaterally nephrectomized male Sprague-Dawley rats. Sakemi T, et al. **Nephron** 1997; 75(3):342–9

Hypoplastic tubules occurring in diffuse mesangial sclerosis [letter] Shimamura T, et al. **Pathol Int** 1996 Nov; 46(11):904–6

Focal segmental glomerulosclerosis [see comments] Ichikawa I, et al. **Pediatr Nephrol** 1996 Jun;10(3):374–91 (233 ref.) . Comment in: Pediatr Nephrol 1997 Feb;11(1):129.

Congenital nephrotic syndrome, diffuse mesangial sclerosis, and bilateral cataract. Zeis PM, et al. **Pediatr Nephrol** 1996 Dec;10(6):732–3

Minimal change disease and idiopathic focal segmental glomerulosclerosis in adults. A quantitative study. Danilewicz M, et al. **Pol J Pathol** 1996;47(4):209–14

Focal mesangial-sclerosing glomerulonephritis and acute-spontaneous infectious canine hepatitis: structural, immunohistochemical and subcellular studies. Hervás J, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1-2):25–32

The development of focal segmental glomerulosclerosis in masugi nephritis is based on progressive podocyte damage. Shirato I, et al. **Virchows Arch** 1996 Nov;429(4-5):255–73

[Analysis of intraglomerular and interstitial infiltration of leukocytes in membranous nephropathy with focal segmental glomerulosclerosis] Yusa A, et al. **Nippon Jinzo Gakkai Shi** 1996 Jun;38(6):239–47 (Eng. Abstr.) **(Jpn)**

[Glomerulosclerosis] Kihara I. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):147–9 (7 ref.) **(Jpn)**

[Focal glomerulosclerosis] Takebayashi S, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):182–5 (12 ref.) **(Jpn)**

[Minimal change disease and focal segmental glomerulosclerosis in children--histomorphometric comparative study with application to computer image analysis] Danilewicz M, et al. **Przegl Lek** 1996;53(7):529–33 (Eng. Abstr.) **(Pol)**

[Complications of renal oligobiopsy with regard to highly selective renal artery embolization as a method treatment--case report] Hyla-Klekot L, et al. **Przegl Lek** 1996;53(7):582–4 (Eng. Abstr.) **(Pol)**

[The clinico-morphological characteristics and treatment of minimal-change glomerulonephritis and focal-segmental glomerulosclerosis-hyalinosis] Diadyk AI, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):75–8 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Sex difference in progression of adriamycin-induced nephropathy in rats. Sakemi T, et al. **Am J Nephrol** 1996; 16(6):540–7

Rapid development of glomerulosclerosis in diabetic Dahl salt-sensitive rats. Körner A, et al. **Diabetologia** 1997 Apr; 40(4):367–73

Minimal change nephropathy and focal segmental glomerulosclerosis. Mallick NP, et al. **Kidney Int Suppl** 1997 Mar;58:S80–2 (23 ref.)

Involvement of angiotensin II in glomerulosclerosis of stroke-prone spontaneously hypertensive rats. Nakamura T, et al. **Kidney Int Suppl** 1996 Jun;55:S109–12

Effect of ovariectomy on glomerular injury in hypercholesterolemic female Imai rats. Sakemi T, et al. **Nephron** 1996;72(1):72–8

PREVENTION & CONTROL

Angiotensin II and calcium blockers prevent glomerular phenotypic changes in remnant kidney model. Hamaguchi A, et al. **J Am Soc Nephrol** 1996 May;7(5):687–93

Dietary alteration of dihomogamma-linolenic acid/arachidonic acid ratio in a rat 5/6-renal-ablation model. The Nutrition & Kidney Disease Research Group. Ingram AJ, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1024–31

Ovariectomy decreases plasma triglyceride levels and both prevents and alleviates glomerular disease in uninephrectomized female analbuminemic rats. Joles JA, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1189–97

Individual and combined effects of verapamil or trandolapril on attenuating hypertensive glomerulopathic changes in the stroke-prone rat. Münter K, et al. **J Am Soc Nephrol** 1996 May;7(5):681–6

Dietary antioxidant inhibits lipoprotein oxidation and renal injury in experimental focal segmental glomerulosclerosis. Lee HS, et al. **Kidney Int** 1997 Apr;51(4):1151–9

Ovariectomy attenuates proteinuria and glomerular injury in unilaterally nephrectomized female Sprague-Dawley rats. Sakemi T, et al. **Nephron** 1996;73(2):251–7

SURGERY

Relapse of focal segmental glomerulosclerosis after kidney transplantation. Dantal J, et al. **Adv Nephrol Necker Hosp** 1996;25:91–106 (95 ref.)

THERAPY

Gene expression in kidney using transgenic approaches. Kopp JB. **Exp Nephrol** 1997 Mar-Apr;5(2):157–67 (50 ref.)

Interferon alfa-2c and proteinuria in a patient with focal and segmental glomerulosclerosis [letter] Haas M, et al. **Lancet** 1997 Apr 19;349(9059):1147–8

Focal segmental glomerulosclerosis: to treat or not to treat? 2. Focal and segmental glomerulosclerosis is not a disease, but an untreatable lesion of unknown pathophysiology. Its treatment must not be uselessly hazardous. Meyrier A. **Nephrol Dial Transplant** 1995 Dec;10(12):2355–9 (31 ref.)

VETERINARY

Focal mesangial-sclerosing glomerulonephritis and acute-spontaneous infectious canine hepatitis: structural, immunohistochemical and subcellular studies. Hervás J, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1-2):25–32

GLOMUS AORTICUM see **AORTIC BODIES**

GLOMUS CAROTICUM see **CAROTID BODY**

GLOMUS JUGULARE TUMOR

COMPLICATIONS

Hearing conservation in surgery for glomus jugulare tumors [published erratum appears in Am J Otol 1996 Nov;17(6):917] Jackson CG, et al. **Am J Otol** 1996 May; 17(3):425–37 (137 ref.)

[Bilateral glomus tumors with a blood pressure regulation disorder due to baroreceptor dysfunction] Hausmann ON, et al. **Dtsch Med Wochenschr** 1997 Feb 28;122(9):253–8 (21 ref.) (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Slow-flow phenomena in magnetic resonance imaging of the jugular bulb masquerading as skull base neoplasms. Widick MH, et al. **Am J Otol** 1996 Jul;17(4):648–52

Imaging quiz case 1. Glomus jugulare tumor of the temporal bone. Cheng A, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):548, 551–2

GENETICS

Malignant familial glomus jugulare and contralateral carotid body tumor. Gardner PA, et al. **Am J Otolaryngol** 1997 Jul-Aug;18(4):269–73

SECRETION

[Noradrenaline secreting glomus jugulare tumor (intracranial pheochromocytoma)] Kudoh Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):595–7 (13 ref.) **(Jpn)**

SURGERY

Hearing conservation in surgery for glomus jugulare tumors [published erratum appears in Am J Otol 1996 Nov;17(6):917] Jackson CG, et al. **Am J Otol** 1996 May; 17(3):425–37 (137 ref.)

The variable relationship between the lower cranial nerves and jugular foramen tumors: implications for neural preservation. Lustig LR, et al. **Am J Otol** 1996 Jul; 17(4):658–68 (32 ref.)

Cranial nerve and hearing function after combined-approach surgery for glomus jugulare tumors. Gjuric M, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):949–54

Arterial and venous paragangliomas: the value of a preoperative pacemaker and a multidisciplinary approach. al-Ebrahim K, et al. **Br J Neurosurg** 1997 Jun;11(3):233–7

Glomus tumours of the skull base [letter; comment] Whitfield

PC, et al. **Br J Neurosurg** 1997 Jun;11(3):265. Comment on: Br J Neurosurg 1996 Aug;10(4):343–50.
Stereotactic radiosurgery for glomus jugulare tumors: a preliminary report. Foote RL, et al.
Int J Radiat Oncol Biol Phys 1997 Jun 1;38(3):491–5
Saphenous vein graft bypass of the sigmoid sinus and jugular bulb during the removal of glomus jugulare tumors. Report of two cases. Sekhar LN, et al. **J Neurosurg** 1997 Jun; 86(6):1036–41
[Glomus jugulare tumor: perioperative management] Ferrando A, et al. **Rev Esp Anestesiol Reanim** 1996 Dec; 43(10):371–4 (Eng. Abstr.) **(Spa)**

GLOMUS TUMOR

A 63–year–old woman with right small finger pain. Lopes TD, et al. **Am J Orthop** 1997 Feb;26(2):169–71
[Glomus tumor] Uchida M, et al.
Ryoikibetsu Shokogun Shirizu 1996;(14):481–4 (22 ref.) **(Jpn)**

CHEMISTRY

Atypical glomus tumor in the mediastinum: a case report with immunohistochemical and ultrastructural studies. Hirose T, et al. **Ultrastruct Pathol** 1996 Sep–Oct; 20(5):451–6

COMPLICATIONS

Extradigital glomus tumour causing thigh pain: a case report. Amillo S, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):104–6
Compression of the lateral cutaneous nerve of the forearm by a glomus tumour. van der Lei B, et al.
J Hand Surg [Br] 1997 Feb;22(1):71–2
Audiological findings in glomus tumours. Qiu WW, et al. **J Laryngol Otol** 1997 Mar;111(3):218–22

DIAGNOSIS

Magnetic resonance angiography in the evaluation of glomus tympanicum tumors. Stewart K, et al.
Am J Otolaryngol 1997 Mar–Apr;18(2):116–20
Imaging quiz case 2. Glomus tympanicum tumor of the temporal bone. Cheng A, et al.
Arch Otolaryngol Head Neck Surg 1997 May;123(5):549, 551–2
Glomangioma of the ankle simulating injury to the flexor hallucis longus: a case report. Miyano JA, et al.
Foot Ankle Int 1996 Dec;17(12):768–70
Glomus tumor in pediatric age. Magliulo G, et al.
Int J Pediatr Otorhinolaryngol 1996 Dec 5;38(1):77–80 (7 ref.)
Magnetic resonance imaging of glomus tumour in the hand. Shih TT, et al. **Int Orthop** 1996;20(6):342–5
Standard and high resolution magnetic resonance imaging of glomus tumors of toes and fingertips. Drapé JL, et al.
J Am Acad Dermatol 1996 Oct;35(4):550–5
Subungual glomus tumours: a different approach to diagnosis and treatment. Ekin A, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):228–9
A small cavernous vascular malformation in the hand mimicking a glomus tumour. al–Qattan MM.
J Hand Surg [Br] 1996 Oct;21(5):693–4
A case of digital glomus tumour: misdiagnosis and verification by magnetic resonance imaging. Case report. Ekerot L. **Scand J Plast Reconstr Surg Hand Surg** 1996 Jun;30(2):151–2
[Gastric lesion revealed by a persistent hiccup] Hoang C, et al. **Ann Pathol** 1996 Sep;16(4):303–4 (6 ref.) **(Fre)**
[Glomus tumors of the petrous bone] **Rontgenpraxis** 1997 Aug;50(8):253–4 **(Ger)**

DRUG THERAPY

Somatostatin receptor scintigraphy and therapy of neuroendocrine (APUD) tumors of the head and neck. Kau R, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):345–9

GENETICS

Glomus tumours and genomic imprinting: influence of inheritance along the paternal or maternal line. Struycken PM, et al. **Clin Otolaryngol** 1997 Feb;22(1):71–6

PATHOLOGY

Glomus tumor in neural tissue [letter; comment] Polk P, et al. **Am J Dermatopathol** 1996 Aug;18(4):444. Comment on: Am J Dermatopathol 1995 Aug;17(4):395–8.
Malignant glomus tumor: a case report and review of the literature. Hiruta N, et al. **Am J Surg Pathol** 1997 Sep; 21(9):1096–103 (27 ref.)
A rare case of glomus tumour; buccal localization [letter] Savaci N, et al. **Br J Oral Maxillofac Surg** 1996 Apr; 34(2):199–200
A glomus tumour involving the base of the skull. Karov I, et al. **Folia Med (Plovdiv)** 1996;38(3–4):17–20
Glomus tumor with diffuse infiltration of the quadriceps muscle: a case report. Negri G, et al. **Hum Pathol** 1997 Jun;28(6):750–2
Giant intravenous glomus tumor. Acebo E, et al.
J Cutan Pathol 1997 Jul;24(6):384–9 (31 ref.)
Synchronous glomus tumors in a distal digit: a case report. Noor MA, et al. **J Hand Surg [Am]** 1997 May;22(3):508–10
Glomangioma of the nasal cavity. Case report and literature review. Arens C, et al.
ORL J Otorhinolaryngol Relat Spec 1997 May–Jun; 59(3):179–81
Multiple acquired vascular nodules [clinical conference] Baselga E, et al. **Pediatr Dermatol** 1997 Jul–Aug; 14(4):327–9
[Glomangioma: an unusual ethmoid–nasal tumor] Devouassoux–Shishe Boran M, et al. **Ann Pathol** 1996 Dec; 16(6):460–2 (Eng. Abstr.) **(Fre)**
[Glomus tumors. Clinical, histological and immunohistochemical study. Apropos of 29 cases] Arkwright S, et al. **Arch Anat Cytol Pathol** 1996; 44(4):160–5 (Eng. Abstr.) **(Fre)**
[Blue tumors] Lazareth I, et al. **Rev Med Interne** 1996; 17(10):852–3 **(Fre)**
[Tympanomastoid glomus tumor and persistent stapedial artery] Arellano B, et al. **Acta Otorrinolaringol Esp** 1996 Nov–Dec;47(6):471–3 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

[What is your diagnosis? Glomus tumor] Braunschweig M. **Schweiz Rundsch Med Prax** 1997 Apr 9;86(15):603–4 **(Ger)**

RADIONUCLIDE IMAGING

Catecholamine secreting glomus tumor detected by iodine–123–MIBG scintigraphy. Reuland P, et al.
J Nucl Med 1996 Mar;37(3):463–5

RADIOTHERAPY

[The treatment of glomus tympanicum tumors in the years 1962–1992 in the Krakow Otolaryngological Clinic] Olszewski E, et al. **Otolaryngol Pol** 1996;50(3):277–80 (Eng. Abstr.) **(Pol)**

SECRETION

Catecholamine secreting glomus tumor detected by iodine–123–MIBG scintigraphy. Reuland P, et al.
J Nucl Med 1996 Mar;37(3):463–5

SURGERY

The surgical management of patients with glomus tumours of the skull base [see comments] Whitfield PC, et al.
Br J Neurosurg 1996 Aug;10(4):343–50. Comment in: Br J Neurosurg 1997 Jun;11(3):265.
Correlation of pain with temperature and blood–flow changes in the lower limb following chemical lumbar sympathectomy in reflex sympathetic dystrophy. A case report. Cooke ED, et al. **Int Angiol** 1995 Sep;14(3):226–8
Glomus tumor in the upper lip. A case report. Sakashita H, et al. **Int J Oral Maxillofac Surg** 1997 Aug;26(4):301–2
Glomus tumours of the hand and foot. Sun BG, et al.
Int Orthop 1996;20(6):339–41
Subungual glomus tumours: a different approach to diagnosis and treatment. Ekin A, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):228–9
Intraosseous glomus tumor of the spine. Case report and review of the literature. Robinson JC, et al.
J Neurosurg 1996 Aug;85(2):344–7 (20 ref.)
Pediatric neurotologic skull base surgery. Jackson CG, et al. **Laryngoscope** 1996 Oct;106(10):1205–9
[The treatment of glomus tympanicum tumors in the years 1962–1992 in the Krakow Otolaryngological Clinic] Olszewski E, et al. **Otolaryngol Pol** 1996;50(3):277–80 (Eng. Abstr.) **(Pol)**
[Nonepithelial tumors of the stomach] Petrov VP, et al.
Khirurgiia (Mosk) 1997;(3):25–8 (Eng. Abstr.) **(Rus)**
[A case of a Barré–Masson tumor] Kostin AE.
Vestn Khir Im I I Grek 1996;(1):95 **(Rus)**

THERAPY

Preoperative embolization of paragangliomas and angiofibromas. Measurement of intratumoral arteriovenous shunts. Schroth G, et al.
Arch Otolaryngol Head Neck Surg 1996 Dec;122(12):1320–5

ULTRASTRUCTURE

Atypical glomus tumor in the mediastinum: a case report with immunohistochemical and ultrastructural studies. Hirose T, et al. **Ultrastruct Pathol** 1996 Sep–Oct; 20(5):451–6

GLOMUS TYMPANICUM see **PARAGANGLIA, NONCHROMAFFIN**

GLOMUS VAGALE see **AORTIC BODIES**

GLOSSALGIA

[Buccofacial dysesthesias] Lucas Tomás M.
An R Acad Nac Med (Madr) 1996;113(3):725–37; discussion 738–41 **(Spa)**

ETIOLOGY

Aberrant external jugular vein phlebectasia with tongue pain. Stofman GM, et al. **Am J Otolaryngol** 1997 Mar–Apr; 18(2):148–50 (8 ref.)

PSYCHOLOGY

Glossodynia: personality characteristics and psychopathology. Trikkas G, et al.
Psychother Psychosom 1996;65(3):163–8

THERAPY

Use of transcutaneous electrical nerve stimulation in the complex treatment of glossalgia. Grechko VE, et al.
Neurosci Behav Physiol 1996 Nov–Dec;26(6):584–6

GLOSSECTOMY

Major glossectomy: end results of 106 cases. Magrin J, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):407–12
Survival, function, and quality of life after total glossectomy. Ruhl CM, et al. **Laryngoscope** 1997 Oct;107(10):1316–21
[Postoperative swallowing function in tongue and oral floor cancer patients reconstructed with a recto–abdominal myocutaneous free flap after glossectomy—quantitative assessment of reconstructed tissue movement] Enomoto H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Dec; 99(12):1729–37 (Eng. Abstr.) **(Jpn)**
[Severe airway obstruction in 4 cases of postoperative obstructive hematoma (letter)] Ledesma M, et al.
Rev Esp Anestesiol Reanim 1997 Jan;44(1):39–40 (Eng. Abstr.) **(Spa)**

METHODS

Radiofrequency volumetric reduction of the tongue. A porcine pilot study for the treatment of obstructive sleep apnea syndrome. Powell NB, et al. **Chest** 1997 May; 111(5):1348–55
Analysis of the articulation after glossectomy. Wakumoto M, et al. **J Oral Rehabil** 1996 Nov;23(11):764–70
Midline glossectomy and epiglottidectomy for obstructive sleep apnea syndrome. Mickelson SA, et al.
Laryngoscope 1997 May;107(5):614–9

NURSING

Tongue reconstruction procedures for treatment of cancer. Truelson JM, et al. **AORN J** 1997 Mar;65(3):528, 531–4, 537 passim

REHABILITATION

Analysis of the articulation after glossectomy. Wakumoto M, et al. **J Oral Rehabil** 1996 Nov;23(11):764–70

GLOSSINA see **TSETSE FLIES**

GLOSSINIDAE

GENETICS

Genetic variation at structural loci in the Glossina morsitans species group. Krafsur ES, et al. **Biochem Genet** 1997 Feb; 35(1–2):1–11

GLOSSITIS

DIAGNOSIS

[Glossitis granulomatosa symptom of oligosymptomatic Melkersson–Rosenthal syndrome] Mahler V, et al. **HNO** 1996 Aug;44(8):471–5 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Two cases of recurrent herpetic infection of the tongue. Kobayashi Y, et al. **Kurume Med J** 1996;43(3):237–41

PATHOLOGY

Median rhomboid glossitis and a "kissing" lesion of the palate [letter; comment] Brown RS, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Nov;82(5):472–3. Comment on: Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Apr;81(4):379–80.
Median rhomboid glossitis [letter; comment] Kessler HP.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Oct;82(4):360. Comment on: Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Apr;81(4):379–80.
Transient lingual papillitis. Whitaker SB, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Oct;82(4):441–5

GLOSSITIS AREATA EXFOLIATIVA see **GLOSSITIS, BENIGN MIGRATORY**

GLOSSITIS, BENIGN MIGRATORY

IMMUNOLOGY

Both psoriasis and benign migratory glossitis are associated with HLA–Cw6. Gonzaga HF, et al. **Br J Dermatol** 1996 Sep;135(3):368–70

GLOSSODYNIA see **GLOSSALGIA**

GLOSSOPHARYNGEAL NERVE

The effect of glossopharyngeal nerve block on pain after elective adult tonsillectomy and uvulopalatoplasty. Bell

KR, et al. **Anaesthesia** 1997 Jun;52(6):597–602

Glossopharyngeal nerve block for pain relief after pediatric tonsillectomy: retrospective analysis and two cases of life-threatening upper airway obstruction from an interrupted trial. Bean-Lijewski JD. **Anesth Analg** 1997 Jun;84(6):1232–8

Treatment of refractory hiccups with glossopharyngeal nerve block [letter] Gallacher BP, et al. **Anesth Analg** 1997 Jan; 84(1):229

Glossopharyngeal neuralgia with tongue carcinoma [letter] Pfendler DF. **Arch Otolaryngol Head Neck Surg** 1997 Jun; 123(6):658

Glossopharyngeal neuralgia: a study of 6 cases. Ceylan S, et al. **Neurosurg Rev** 1997;20(3):196–200

[Syncopal neuralgia of the glossopharyngeal nerve caused by tumoral invasiveness. Therapeutic management. Apropos of 2 cases] Carrat X, et al.
Rev Laryngol Otol Rhinol (Bord) 1996;117(2):137–40 (Eng. Abstr.) **(Fre)**

[Glossopharyngeal neuralgia with syncope] Mód G, et al.
Orv Hetil 1996 Jun 2;137(22):1199–203 (31 ref.) (Eng. Abstr.) **(Hun)**

[A case of jugular foramen neurinoma originating from glossopharyngeal nerve] Fukui S, et al.
No Shinkei Geka 1997 Jan;25(1):47–51 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Syncope associated with glossopharyngeal neuralgia and parapharyngeal tumor] Rumoroso JR, et al.
Rev Esp Cardiol 1996 Sep;49(9):704–6 (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Two morphological types of chemoreceptor afferents innervate the rabbit carotid body. Torrealba F.
Adv Exp Med Biol 1996;410:51–4

Convergence of afferent inputs from the chorda tympani, lingual-tonsillar and pharyngeal branches of the glossopharyngeal nerve, and superior laryngeal nerve on the neurons in the insular cortex in rats. Hanamori T, et al. **Brain Res** 1997 Jul 25;763(2):267–70

Unilateral innervation of guinea pig vallate taste buds as determined by glossopharyngeal neurectomy and HRP neural tracing. Huang YJ, et al. **J Anat** 1996 Oct;189 (Pt 2):315–24

Magnetic resonance imaging of cranial nerves IX, X, XI, and XII. Castillo M, et al. **Top Magn Reson Imaging** 1996 Jun;8(3):180–6

BLOOD SUPPLY

Neurovascular compression at the left ventrolateral medulla as an etiological factor for arterial hypertension. Säglitz SA, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:9–11

CHEMISTRY

Localization of nicotinic acetylcholine receptors in cat carotid body and petrosal ganglion. Ishizawa Y, et al.
Adv Exp Med Biol 1996;410:253–6

Secretoneurin. A novel carotid body peptide. McQueen DS, et al. **Adv Exp Med Biol** 1996;410:329–33

CYTOLOGY

Responses of cat petrosal ganglion neurons are modified by the presence of carotid body cells in tissue cultures. Alcayaga J, et al. **Adv Exp Med Biol** 1996;410:195–201

Co-cultures of rat petrosal neurons and carotid body type 1 cells. A model for studying chemosensory mechanisms. Zhong H, et al. **Adv Exp Med Biol** 1996;410:189–93

The sites of origin and termination of afferent and efferent components in the lingual and pharyngeal branches of the glossopharyngeal nerve in the Japanese monkey (Macaca fuscata). Satoda T, et al. **Neurosci Res** 1996 Mar; 24(4):385–92

DRUG EFFECTS

Anions modulate cation-induced responses of single units of the frog glossopharyngeal nerve. Kitada Y. **Brain Res** 1995 Oct 2;694(1–2):253–63

EMBRYOLOGY

Segmental and neuronal architecture of the hindbrain of Krox-20 mouse mutants. Schneider-Maunoury S, et al.
Development 1997 Mar;124(6):1215–26

Null mutation of mCOUP-TFI results in defects in morphogenesis of the glossopharyngeal ganglion, axonal projection, and arborization. Qiu Y, et al. **Genes Dev** 1997 Aug 1;11(15):1925–37

METABOLISM

Dopamine D2 receptor mRNA isoforms expression in the carotid body and petrosal ganglion of developing rabbits. Bairam A, et al. **Adv Exp Med Biol** 1996;410:285–9

Expression and localization of enkephalin, substance P, and substance P receptor genes in the rat carotid body. Gauda EB, et al. **Adv Exp Med Biol** 1996;410:313–8

Coexistence of calbindin D-28k and NADPH-diaphorase in vagal and glossopharyngeal sensory neurons of the rat. Ichikawa H, et al. **Brain Res** 1996 Oct 7;735(2):325–9

Relief of glossopharyngeal neuralgia by ketamine-induced N-methyl-aspartate receptor blockade. Eide PK, et al.
Neurosurgery 1997 Aug;41(2):505–8

PATHOLOGY

MR screening for brain stem compression in hypertension [see comments] Watters MR, et al.
AJNR Am J Neuroradiol 1996 Feb;17(2):217–21. Comment in: AJNR Am J Neuroradiol 1997 Apr;18(4):788–9; discussion 789–90.

Management of massive head and neck neurofibromas in children. Greinwald J, et al. **Am J Otolaryngol** 1996 Mar-Apr;17(2):136–42

PHYSIOLOGY

Coherence of chemosensory discharges in cats' carotid nerves. Cooperative inputs or redundant afferences? Alcayaga J, et al. **Adv Exp Med Biol** 1996;410:349–56

Acetylcholine elevates intracellular Ca2+ via muscarinic and nicotinic receptors in rat carotid body type I cells. Dasso LL, et al. **Adv Exp Med Biol** 1996;410:239–44

Generation of interspike intervals of rat carotid body chemoreceptors. Donnelly DF. **Adv Exp Med Biol** 1996; 410:169–74

Reflections on the carotid nerve sensory discharge and coupling between glomus cells. Eyzaguirre C, et al.
Adv Exp Med Biol 1996;410:159–67 (26 ref.)

The coupling between intracellular pH, ion transport, and chemosensory discharge. Iturriaga R, et al.
Adv Exp Med Biol 1996;410:175–80

Modifications of carotid body CO2 chemosensitivity in vitro. Kumar P, et al. **Adv Exp Med Biol** 1996;410:203–10

Carotid chemoreflex. Neural pathways and transmitters. Sapru HN. **Adv Exp Med Biol** 1996;410:357–64 (22 ref.)

Depolarization is a critical event in hypoxia-induced glomus cell secretion. Weiss N, et al. **Adv Exp Med Biol** 1996; 410:181–7

Domperidone as a tool to assess the role of dopamine within carotid body chemoreception. Zapata P, et al.
Adv Exp Med Biol 1996;410:291–7 (36 ref.)

Respiratory motor responses to cranial nerve afferent stimulation in rats. Hayashi F, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1054–62

Lack of gurmarin sensitivity of sweet taste receptors innervated by the glossopharyngeal nerve in C57BL mice. Ninomiya Y, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R1002–6

Effects of bilateral hypoglossal and glossopharyngeal nerve blocks on epiglottic and soft palate position in exercising horses. Holcombe SJ, et al. **Am J Vet Res** 1997 Sep; 58(9):1022–6

Combined glossopharyngeal and chorda tympani nerve transection elevates quinine detection thresholds in rats (Rattus norvegicus). St John SJ, et al. **Behav Neurosci** 1996 Dec;110(6):1456–68

The consequences of gustatory nerve transection on taste-guided licking of sucrose and maltose in the rat. Spector AC, et al. **Behav Neurosci** 1996 Oct; 110(5):1096–109

Neural responses to bitter compounds in rats. Dahl M, et al. **Brain Res** 1997 May 9;756(1–2):22–34

Vestibular effects on upper airway musculature. Siniaia MS, et al. **Brain Res** 1996 Oct 14;736(1–2):160–4

Contribution of chorda tympani and glossopharyngeal nerves to taste preferences of rat for amino acids and NaCl. Tabuchi E, et al. **Brain Res** 1996 Nov 11;739(1–2):139–55

Enhancing effects of binary mixtures of acid with salt on the gustatory neural activity in the clawed toad, Xenopus laevis. Yamashita S, et al. **Brain Res Bull** 1997;42(5):385–92

Specificity of glossopharyngeal nerve responses to astringent compounds in Xenopus. Yamashita S, et al.
Chem Senses 1996 Aug;21(4):459–65

Primate sense of taste: behavioral and single chorda tympani and glossopharyngeal nerve fiber recordings in the rhesus monkey, Macaca mulatta. Hellekant G, et al.
J Neurophysiol 1997 Feb;77(2):978–93

Long term chronic recordings from peripheral sensory fibers using a sieve electrode array. Bradley RM, et al.
J Neurosci Methods 1997 May 16;73(2):177–86

Fiber types of the lingual branch of the trigeminal nerve, chorda tympani, lingual-tonsillar and pharyngeal branches of the glossopharyngeal nerve, and superior laryngeal nerve and their relation to the cardiovascular responses in rats. Hanamori T, et al. **Neurosci Lett** 1996 Nov 15;219(1):49–52

[Trigeminal evoked potentials through the glossal nerve in normals. A preliminary study. Letter] Villanueva JA, et al. **Rev Neurol** 1996 Oct;24(134):1302–3 **(Spa)**

PHYSIOPATHOLOGY

Glossopharyngeal neuralgia associated with vascular compression and choroid plexus papilloma. Greene KA, et al. **Br J Neurosurg** 1995;9(6):809–14

Choroid plexus compression of glossopharyngeal nerve in patients with glossopharyngeal neuralgia. Occhiogrosso M, et al. **J Neurosurg Sci** 1996 Mar;40(1):37–41

SURGERY

Phagocytic cells in the taste buds of rat circumvallate papillae after denervation. Suzuki Y, et al. **Chem Senses** 1996 Aug; 21(4):467–76

GLOTTIS

Primary radiotherapy of T1 and T2 glottic carcinoma—analysis of treatment results and prognostic factors in 223 patients. Klintenberg C, et al.
Acta Oncol 1996;35 Suppl 8:81–6

Results of radiotherapy for T1 carcinoma of the glottis by fractions of 2.3 Gy per day. Plataniotis GA, et al.
Acta Oncol 1997;36(3):342–3

Stroboscopic observation of the larynx after radiation in patients with T1 glottic carcinoma. Tsunoda K, et al.
Acta Otolaryngol Suppl (Stockh) 1997;527:165–6

Conservation surgery for recurrent carcinoma of the glottic larynx. Lydiatt WM, et al. **Am J Surg** 1996 Dec; 172(6):662–4

Phonomicrosurgical treatment of early glottic cancer and carcinoma in situ. Zeitels SM. **Am J Surg** 1996 Dec; 172(6):704–9

Radiotherapy in early glottic carcinoma. Kanonier G, et al.
Ann Otol Rhinol Laryngol 1996 Oct;105(10):759–63

Imaging quiz case 3. Paraglottic laryngeal lipoma. Soliman AM, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):550, 552

Role of accelerated fractionated irradiation for supraglottic carcinoma: assessment of results. Wang CC, et al.
Cancer J Sci Am 1997 Mar-Apr;3(2):88–91

Subglottic stenosis complicating cardiac surgery in children. Pereira KD, et al. **Chest** 1997 Jun;111(6):1769–72

How to use an article on therapy or prevention: pneumonia prevention using subglottic secretion drainage [see comments] Cook DJ, et al. **Crit Care Med** 1997 Sep; 25(9):1502–13 (78 ref.). Comment in: Crit Care Med 1997 Sep;25(9):1448–9.

Subglottic stenosis in Wegener's granulomatosis limited to the head and neck region. Yumoto E, et al.
Ear Nose Throat J 1997 Aug;76(8):571–4 (15 ref.)

Laryngeal cancer: quality-of-life and cost-effectiveness. Morton RP. **Head Neck** 1997 Jul;19(4):243–50

Prognostic determinants in supraglottic carcinoma: univariate and Cox regression analysis. Nicolai P, et al.
Head Neck 1997 Jul;19(4):323–34

Definitive radiotherapy for early glottic carcinoma: prognostic factors and implications for treatment. Burke LS, et al. **Int J Radiat Oncol Biol Phys** 1997 Apr 1; 38(1):37–42

Definitive radiotherapy for early glottic carcinoma: prognostic factors and implications for treatment. Burke LS, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15; 38(5):1001–6

Fractionation and glottic carcinoma [editorial; comment] Fowler JF. **Int J Radiat Oncol Biol Phys** 1997 Aug 1; 39(1):1–2. Comment on: Int J Radiat Oncol Biol Phys 1997 Aug 1;39(1):115–26.

Influence of fraction size, total dose, and overall time on local control of T1–T2 glottic carcinoma [see comments] Le QT, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1; 39(1):115–26. Comment in: Int J Radiat Oncol Biol Phys 1997 Aug 1;39(1):1–2.

Early glottic cancer: the influence of primary treatment on voice preservation. Lesnicar H, et al.
Int J Radiat Oncol Biol Phys 1996 Dec 1;36(5):1025–32

Radiation therapy in early carcinoma of the glottic larynx T1N0M0. Medini E, et al.
Int J Radiat Oncol Biol Phys 1996 Dec 1;36(5):1211–3

Can pretreatment computed tomography predict local control in T3 squamous cell carcinoma of the glottic larynx treated with definitive radiotherapy? Pameijer FA, et al.
Int J Radiat Oncol Biol Phys 1997 Mar 15;37(5):1011–21

Different glycoconjugates in the submucosal glands of the supraglottis and subglottis. Lectin histochemistry study in the hamster. Melgarejo-Moreno P, et al.
J Laryngol Otol 1997 May;111(5):441–3

The effect of overall treatment time of radiation therapy on local control of T1-stage squamous cell carcinoma of the glottis. Hayakawa K, et al. **Laryngoscope** 1996 Dec;106(12 Pt 1):1545–7

Epiglottitis in adults and children in Olmsted County, Minnesota, 1976 through 1990. Kucera CM, et al.
Mayo Clin Proc 1996 Dec;71(12):1155–61

Low vascular density indicates poor response to radiotherapy in small glottic carcinomas. Jenssen N, et al.
Pathol Res Pract 1996 Nov;192(11):1090–4

Effect of arytenoid sparing during radiation therapy of early stage glottic carcinoma. Allal AS, et al.
Radiother Oncol 1997 Apr;43(1):63–5

Radiation therapy for early glottic carcinoma (T1N0M0). The final results of prospective randomized study concerning radiation field. Chatani M, et al.
Strahlenther Onkol 1996 Mar;172(3):169–72

["Limited" cancers of the glottic stage of the larynx and exclusive chemotherapy—15 years of experience] Laccourreye H. **Bull Acad Natl Med** 1997 Apr; 181(4):641–8; discussion 648–9 (Eng. Abstr.) **(Fre)**

[Clinical study of acute supraglottitis as a disease entity] Kimura H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 May;100(5):518–23 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Infantile subglottic hemangioma: a review and presentation of two cases of surgical excision. Phipps CD, et al.
Int J Pediatr Otorhinolaryngol 1997 Jul 18;41(1):71–9 (20 ref.)

ANATOMY & HISTOLOGY

The normal anterior commissure of the glottis. Kallmes DF, et al. **AJR Am J Roentgenol** 1997 May;168(5):1317–9

The view of the glottis at laryngoscopy after unexpectedly difficult placement of the laryngeal mask [see comments] Asai T. **Anaesthesia** 1996 Nov;51(11):1063–5. Comment in: Anaesthesia 1997 Apr;52(4):383; discussion 383–4. Comment in: Anaesthesia 1997 Apr;52(4):384–5; discussion 383–4.

Barrier between the supraglottis and the glottis: myth or reality? Ferlito A, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):716–9

Borders and topographic relationships of the paraglottic space. Reidenbach MM. **Eur Arch Otorhinolaryngol** 1997; 254(4):193–5

INNERVATION

Fractal dimension of sustained vowel productions in neurological dysphonias: an acoustic and electroglottographic analysis [letter] Hertrich I, et al. **J Acoust Soc Am** 1997 Jul;102(1):652–4

METABOLISM

Growth factors in subglottic stenosis. Scioscia KA, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):936–43

PATHOLOGY

Glottic–supraglottic barrier: fact or fantasy? Kirchner JA. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):700–4

Prognostic value of nucleolar organizer regions in supraglottic carcinoma. Yamamoto Y, et al. **Auris Nasus Larynx** 1997;24(1):85–90

The paraglottic space and transglottic cancer: anatomical considerations. Reidenbach MM. **Clin Anat** 1996; 9(4):244–51

The significance of pre–epiglottic space invasion in supraglottic laryngeal carcinomas. Dursun G, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S110–2

Evidence for multiple tumor suppressor genes on chromosome arm 8p in supraglottic laryngeal cancer. Sunwoo JB, et al. **Genes Chromosomes Cancer** 1996 Jul; 16(3):164–9

Nucleolar organizer regions and prognosis in glottic squamous cell carcinoma. Xie X, et al. **Head Neck** 1997 Jan;19(1):20–6

Glottic microinvasive carcinoma: is it different from carcinoma in situ? Nguyen C, et al. **J Otolaryngol** 1996 Aug;25(4):223–6

Correlation between vocal functions and glottal measurements in patients with unilateral vocal fold paralysis. Inagi K, et al. **Laryngoscope** 1997 Jun; 107(6):782–91

Glottic cancer with subglottic extension. Ampil FL, et al. **Radiat Med** 1997 Mar–Apr;15(2):103–7

[External radiotherapy in early stage squamous cell carcinoma of the supraglottic larynx. Report of 28 cases] Caliceti U, et al. **Acta Otorhinolaryngol Ital** 1996 Feb; 16(1):35–9 (28 ref.) (Eng. Abstr.) **(Ita)**

[Prognostic factors in radiotherapy of supraglottic cancer] Skladowski K, et al. **Otolaryngol Pol** 1996;50(6):579–86 (Eng. Abstr.) **(Pol)**

[Subglottic hemangioma as a rare cause of dyspnea in infants] Czubkowska I, et al. **Pediatr Pol** 1996 Jun;71(6):559–65 (Eng. Abstr.) **(Pol)**

[Vertical partial laryngectomies: our experience] Guallart Doménech F, et al. **An Otorrinolaringol Ibero Am** 1996; 23(5):469–78 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Glottic aperture and effective minute ventilation during nasal two–level positive pressure ventilation in spontaneous mode. Parreira VF, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1857–63

A comparison of combined glottography in men and women. Carrie S, et al. **Clin Otolaryngol** 1993 Dec;18(6):505–7

An assessment of the reproducibility of combined glottography in a clinical setting. Livesey JR, et al. **Clin Otolaryngol** 1993 Dec;18(6):500–4

The effects of frequency and intensity level on glottal closure in normal subjects. Sulter AM, et al. **Clin Otolaryngol** 1996 Aug;21(4):324–7

Artificial control of glottic adduction for aspiration by orderly recruitment in the canine. Broniatowski M, et al. **Dysphagia** 1997 Spring;12(2):93–7

A biomechanical laryngeal model of voice F0 and glottal width control. Farley GR. **J Acoust Soc Am** 1996 Dec; 100(6):3794–812

Glottal characteristics of female speakers: acoustic correlates. Hanson HM. **J Acoust Soc Am** 1997 Jan;101(1):466–81

Relation between the phonation threshold pressure and the prephonatory glottal width in a rectangular glottis [letter] Lucero JC. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2551–4

Glottal volume velocity waveform characteristics in subjects with and without vocal training, related to gender, sound intensity, fundamental frequency, and age. Sulter AM, et al. **J Acoust Soc Am** 1996 Nov;100(5):3360–73

Supraglottic airway pressure–flow relationships during oronasal airflow partitioning in dogs. Amis TC, et al. **J Appl Physiol** 1996 Nov;81(5):1958–64

Comparisons among aerodynamic, electroglottographic, and acoustic spectral measures of female voice. Holmberg EB, et al. **J Speech Hear Res** 1995 Dec;38(6):1212–23

PHYSIOPATHOLOGY

Vocal fold atrophy: quantitative glottic measurement and vocal function. Omori K, et al. **Ann Otol Rhinol Laryngol** 1997 Jul;106(7 Pt 1):544–51

Effect of an upper respiratory tract infection on upper airway reactivity. Nandwani N, et al. **Br J Anaesth** 1997 Apr; 78(4):352–5

Isolated subglottic scleroma. Postma GN, et al. **Ear Nose Throat J** 1996 May;75(5):306–8

Prolonged active glottic closure after barbiturate–induced respiratory arrest in lambs. Praud JP, et al. **Respir Physiol** 1996 Jul;104(2–3):221–9

[Contribution of electroglottography to laryngeal motion disorders] Roch JB, et al. **Rev Laryngol Otol Rhinol (Bord)** 1995;116(4):285–8 (Eng. Abstr.) **(Fre)**

RADIATION EFFECTS

Morbidity of combined therapy for the treatment of supraglottic carcinoma: supraglottic laryngectomy and radiotherapy. Steiniger JR, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):151–8

Quantitative analysis of voice quality in early glottic laryngeal carcinomas treated with radiotherapy. Dagli AS, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):78–80

Radiotherapy for carcinoma of the supraglottis. Mendenhall WM, et al. **Otolaryngol Clin North Am** 1997 Feb; 30(1):145–61 (35 ref.)

Definitive radiation management for carcinoma of the glottic larynx. Moose BD, et al. **Otolaryngol Clin North Am** 1997 Feb;30(1):131–43 (66 ref.)

[Radical radiotherapy in T2N0 glottic laryngeal carcinomas] Bonetti B, et al. **Acta Otorhinolaryngol Ital** 1996 Oct; 16(5):428–32 (Eng. Abstr.) **(Ita)**

[Prognostic factors in radiotherapy of supraglottic cancer] Skladowski K, et al. **Otolaryngol Pol** 1996;50(6):579–86 (Eng. Abstr.) **(Pol)**

[Radiation therapy in glottic laryngeal carcinoma stage. I. Results and analysis of prognostic factors] Skołyszewski J, et al. **Otolaryngol Pol** 1996;50(3):243–7 (Eng. Abstr.) **(Pol)**

RADIOGRAPHY

Clear plastic cups: a childhood choking hazard. Weiss RL, et al. **Int J Pediatr Otorhinolaryngol** 1996 Nov;37(3):243–51

SURGERY

T1–T2–T3 glottic tumors: fifteen years experience with CO2 laser. Motta G, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 527:155–9

Cricohyoidoepiglottopexy for glottic carcinoma with fixation or impaired motion of the true vocal cord: 5–year oncologic results with 112 patients. Chevalier D, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):364–9

Morbidity of combined therapy for the treatment of supraglottic carcinoma: supraglottic laryngectomy and radiotherapy. Steiniger JR, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):151–8

Management of bilateral glottic tumors. Reino AJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):465–73

Techniques of management of subglottic stenoses with glottic and supraglottic problems. Couraud L, et al. **Chest Surg Clin N Am** 1996 Nov;6(4):791–809

Management of the thyroid gland with laryngectomy for cT3 glottic carcinomas. Fagan JJ, et al. **Clin Otolaryngol** 1997 Feb;22(1):7–12

Management of swallowing disorders and chronic aspiration by glottic closure procedure. Hensel M, et al. **J Neurosurg Anesthesiol** 1997 Jul;9(3):273–6

Posterior glottic stenosis mechanism and surgical management. Hoasjoe DK, et al. **Laryngoscope** 1997 May; 107(5):675–9

Endoscopic surgical management of glottic laryngeal cancer. Davis RK. **Otolaryngol Clin North Am** 1997 Feb; 30(1):79–86 (16 ref.)

Open surgical management of early glottic carcinoma. Osguthorpe JD, et al. **Otolaryngol Clin North Am** 1997 Feb;30(1):87–99 (42 ref.)

Surgical management of early supraglottic cancer. Zeitels SM. **Otolaryngol Clin North Am** 1997 Feb;30(1):59–78 (70 ref.)

The effect of unilateral arytenoid lateralization on rima glottidis area in canine cadaver larynges. Lussier B, et al. **Vet Surg** 1996 Mar–Apr;25(2):121–6

[Laryngeal vertical partial surgery. Surgical techniques. Oncological and functional results] Vega SF, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3):272–80 (Eng. Abstr.) **(Ita)**

[Partial vertical surgery in the treatment of glottic carcinoma. Our experience in the course of 30 years] Martinez T, et al. **Acta Otorrinolaringol Esp** 1996 May–Jun;47(3):227–31 (Eng. Abstr.) **(Spa)**

[Calearo horizontal glottectomy in bilateral glottic cancer] Rodríguez Adrados F. **Acta Otorrinolaringol Esp** 1997 Apr; 48(3):204–8 (Eng. Abstr.) **(Spa)**

[Vertical partial laryngectomies: our experience] Guallart Doménech F, et al. **An Otorrinolaringol Ibero Am** 1996; 23(5):469–78 (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Recurrent inflammatory myofibroblastic tumor of the glottis mimicking malignancy. Corsi A, et al. **Am J Otolaryngol** 1997 Mar–Apr;18(2):121–6

Nucleolar organizer regions in glottic carcinomas: comparison of DNA cytofluorometry and clinicopathological analysis. Yamamoto Y, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):499–503

[The anterior commissure of the larynx in the subperichondral functional surgery of the glottic plane: critical evaluation on the basis of a serial section study in normal and neoplastic laryngeal specimens] Carluccio F, et al. **Acta Otorhinolaryngol Ital** 1996 Apr;16(2):122–8 (29 ref.) (Eng. Abstr.) **(Ita)**

GLOVES, PROTECTIVE

Safe use of natural rubber latex [editorial] Sussman GL, et al. **Allergy Asthma Proc** 1996 Mar–Apr;17(2):101–2

Batch lot variability in permeation through nitrile gloves. Perkins JL, et al. **Am Ind Hyg Assoc J** 1997 Jul;58(7):474–9

Glove–related rhinopathy among hospital personnel. Kujala VM, et al. **Am J Ind Med** 1996 Aug;30(2):164–70

Application of a new technology to the design of effective anti–vibration gloves. Reynolds D, et al. **Cent Eur J Public Health** 1996 May;4(2):140–4

Effect of glove occlusion on human skin. (I). short–term experimental exposure. Ramsing DW, et al. **Contact Dermatitis** 1996 Jan;34(1):1–5

Barrier effect of gloves against cytostatic drugs. Mellström GA, et al. **Curr Probl Dermatol** 1996;25:163–9

Use of a semipermeable glove during treatment of hand dermatitis. Baack BR, et al. **Cutis** 1996 Dec;58(6):423–4

The 4–hour glove for epoxy and acrylic monomer (dental and orthopedic personnel) and glyceryl monothioglycolate (hairdressers) [news] Fisher AA. **Cutis** 1997 May; 59(5):235–6

The influence of gloves during maximum volitional torque exertion of supination. Shih YC, et al. **Ergonomics** 1997 Apr;40(4):465–75

Natural rubber latex skin testing reagents: safety and diagnostic accuracy of nonammoniated latex, ammoniated latex, and latex rubber glove extracts. Hamilton RG, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):872–83

Laboratory–acquired VTEC infection [letter; comment] Phillips G, et al. **J Hosp Infect** 1997 Jan;35(1):72. Comment on: J Hosp Infect 1996 Jul;33(3):228–30.

Universal precautions: attitudes of Australian and New Zealand anaesthetists [letter] Kolawole HM. **Med J Aust** 1997 May 19;166(10):566

A survey of starch particle counts in the hospital environment in relation to the use of powdered latex gloves. Newsom SW, et al. **Occup Med (Oxf)** 1997 Apr;47(3):155–8

ADVERSE EFFECTS

Validation of the latex glove provocation procedure in latex–allergic subjects. Hamilton RG, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):266–72

Prevalence of IgE–mediated allergy to latex in hospital nursing staff. Douglas R, et al. **Aust N Z J Med** 1997 Apr; 27(2):165–9

Natural rubber latex contact dermatitis with features of erythema multiforme. Bourrain JL, et al. **Contact Dermatitis** 1996 Jul;35(1):55–6

Isolated delayed–type hypersensitivity to latex rubber. Häffner AC, et al. **Contact Dermatitis** 1996 Oct;35(4):247–8

Contact allergy and exposure patterns to thiurams and carbamates in consecutive patients. Knudsen BB, et al. **Contact Dermatitis** 1996 Aug;35(2):97–9

Rubber glove dermatitis: a significant occupational hazard–prevention. Estlander T, et al. **Curr Probl Dermatol** 1996;25:170–6 (32 ref.)

The occlusive effects of protective gloves on the barrier properties of the stratum corneum. Graves CJ, et al. **Curr Probl Dermatol** 1995;23:87–94

Standard and special tests for the barrier integrity of medical gloves. Part I: The use and abuse of vinyl gloves by health care workers allergic to latex [news] Fisher AA. **Cutis** 1997 Feb;59(2):61–2

Effect of work glove and type of muscle action on grip fatigue. Fleming SL, et al. **Ergonomics** 1997 Jun; 40(6):601–12

Latex allergy in hospital employees. Lai CC, et al. **J Formos Med Assoc** 1997 Apr;96(4):266–71

A medical–center–wide, multidisciplinary approach to the problem of natural rubber latex allergy. Hunt LW, et al. **J Occup Environ Med** 1996 Aug;38(8):765–70

Current perspectives on latex allergy [see comments] Landwehr LP, et al. **J Pediatr** 1996 Mar;128(3):305–12 (63 ref.). Comment in: J Pediatr 1996 Nov;129(5):771–2.

The health care worker plague. Groce DF. **Occup Health Saf** 1996 Oct;65(10):170–2, 176–7, 200

Latex allergy. Shusterman D. **West J Med** 1996 Sep; 165(3):141–2

ECONOMICS

Control of vancomycin–resistant enterococcus [letter; comment] Lai KK. **Ann Intern Med** 1997 Jun 15; 126(12):1000–1. Comment on: Ann Intern Med 1996 Sep

GLOVES, PROTECTIVE

15;125(6):448–56.

STANDARDS

In vitro versus in-use considerations for testing the permeability of gloves [editorial] Korniewicz DM. **Am J Infect Control** 1996 Jun;24(3):158–9

Laboratory gloves as a source of trace element contamination. Friel JK, et al. **Biol Trace Elem Res** 1996 Aug;54(2):135–42

European standards on protective gloves. Zimmerli T. **Curr Probl Dermatol** 1996;25:177–P6 (0 ref.)

Evaluation of integrity of gloves used in a flow cytometry laboratory. Cappuccio WR, et al. **Infect Control Hosp Epidemiol** 1997 Jun;18(6):423–5

Effect of laundering on ability of glove fabrics to decrease the penetration of organophosphate insecticides through in vitro epidermal systems. Keeble VB, et al. **J Appl Toxicol** 1996 Sep–Oct;16(5):401–6

Complying with OSHA's hand protection standards. Morris R. **Occup Health Saf** 1996 Sep;65(9):46–8, 50

Guidelines for glove usage [letter] Kumar PD. **Trop Doct** 1997 Oct;27(4):251

UTILIZATION

Use of gloves in veterinary practice [letter] [see comments] Thomas D. **Vet Rec** 1996 Nov 30;139(22):551. Comment in: Vet Rec 1996 Dec 7;139(23):574. Comment in: Vet Rec 1996 Dec 7;139(23):574–5.

VETERINARY

Use of gloves in veterinary practice [letter; comment] Humphris D. **Vet Rec** 1996 Dec 7;139(23):574. Comment on: Vet Rec 1996 Nov 30;139(22):551.

Use of gloves in veterinary practice [letter; comment] Marshall FJ. **Vet Rec** 1996 Dec 7;139(23):574–5. Comment on: Vet Rec 1996 Nov 30;139(22):551.

GLOVES, SURGICAL

Allergenic proteins in different brands of latex and synthetic medical examination gloves. Hoeyveld EM, et al. **Acta Clin Belg** 1997;52(2):99–105

The use of a surgical assist device to reduce glove perforations in postdelivery vaginal repair: a randomized controlled trial. Bebbington MW, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):862–6

Influence of blunt needles on surgical glove perforation and safety for the surgeon. Mingoli A, et al. **Am J Surg** 1996 Nov;172(5):512–6; discussion 516–7

Rubber gloves and anaesthetic gas leak [letter] Lam WH, et al. **Anaesthesia** 1996 Nov;51(11):1075–6

Protective gloves for use in high-risk patients: how much do they affect the dexterity of the surgeon? Phillips AM, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):124–7

The powdered latex glove war. Romig CL. **AORN J** 1997 Jul;66(1):152–3

Effect of surgical hand scrub time on subsequent bacterial growth. Wheelock SM, et al. **AORN J** 1997 Jun; 65(6):1087–92; 1094–8

The other uses of the surgical glove [letter] Krishna A, et al. **Br J Plast Surg** 1997 Sep;50(6):471

The extended role of the surgical glove [letter] Srinivasan J, et al. **Br J Plast Surg** 1997 Apr;50(3):218–9

Barrier effect of gloves against cytostatic drugs. Mellström GA, et al. **Curr Probl Dermatol** 1996;25:163–9

Efficacy of double gloving with a coloured inner pair for immediate detection of operative glove perforations. Duron JJ, et al. **Eur J Surg** 1996 Dec;162(12):941–4

Double gloving as self protection in abdominal surgery. Jensen SL, et al. **Eur J Surg** 1997 Mar;163(3):163–7

Glove Powder—The Hazards which Demand a Ban. Proceedings of a meeting. London, United Kingdom, May 1996. **Eur J Surg Suppl** 1997;(579):4–55

Misdiagnosis of cancer due to multiple glove powder granulomas. Giercksky KE. **Eur J Surg Suppl** 1997; (579):11–4

Powder contamination of extradural catheters and implications for infection risk. Green M. **Eur J Surg Suppl** 1997;(579):39–40

Airborne particles from latex gloves in the hospital environment. Newsom SW, et al. **Eur J Surg Suppl** 1997; (579):31–3

Retained portion of latex glove during femoral nailing. Case report. Sadat-Ali M, et al. **Indian J Med Sci** 1996 Nov; 50(11):308–9

Ease of donning commercially available powder-free surgical gloves. Fisher MD, et al. **J Biomed Mater Res** 1996 Winter; 33(4):291–5

Needle puncture resistance of surgical gloves, finger guards, and glove liners. Leslie LF, et al. **J Biomed Mater Res** 1996 Spring;33(1):41–6

Effect of puncture resistant surgical gloves, finger guards, and glove liners on cutaneous sensibility and surgical psychomotor skills. Woods JA, et al. **J Biomed Mater Res** 1996 Spring;33(1):47–51

Increased awareness of glove perforation in major joint replacement. A prospective, randomised study of Regent Biogel Reveal gloves. Nicolai P, et al. **J Bone Joint Surg Br** 1997 May;79(3):371–3

Powder-free gloves for ophthalmic surgery. Stein HA. **J Cataract Refract Surg** 1997 Jun;23(5):714–7

Gloves, laryngoscopes, and laryngeal masks [letter] Ben-David B, et al. **J Clin Anesth** 1997 Jun;9(4):345–6

Comfort and frictional properties of dental gloves. Roberts AD, et al. **J Dent** 1996 Sep;24(5):339–43

The permeability of dental gloves following exposure to certain dental materials. Tinsley D, et al. **J Dent** 1997 Jan; 25(1):65–70

Hand over glove [letter] Southern S, et al. **J Hand Surg [Br]** 1997 Jun;22(3):428

Use of surgical pass trays to reduce intraoperative glove perforations. Eggleston MK Jr, et al. **J Matern Fetal Med** 1997 Jul–Aug;6(4):245–7

Perforation rate using a single pair of orthopedic gloves vs. a double pair of gloves in obstetric cases. Turnquest MA, et al. **J Matern Fetal Med** 1996 Nov–Dec;5(6):362–5

Use of a breathable glove liner for prevention of delayed hypersensitivity to rubber accelerators [letter] Scheman A, et al. **J Occup Environ Med** 1997 Jul;39(7):605

Surgeon protection: early recognition of glove perforation using a green under glove. Brown JN. **J R Coll Surg Edinb** 1996 Dec;41(6):395–6

The inflammatory potential of surgical glove lubricants: Biosorb, Kecoflo, calcium carbonate and Hydrocote after intravitreal injection. Park HS, et al. **Korean J Ophthalmol** 1997 Jun;11(1):51–9

Miniwatermattress to prevent pressure sores over the heel [letter] Bhatnagar A. **Plast Reconstr Surg** 1997 Mar; 99(3):927–8

Should we ban the use of powder-coated gloves in operations involving prosthetic devices? [letter] Cohen IK. **Plast Reconstr Surg** 1997 Jan;99(1):274

Does double gloving protect surgical staff from skin contamination during plastic surgery? Marín-Bertolín S, et al. **Plast Reconstr Surg** 1997 Apr;99(4):956–60

[Update on the latex allergy topic] Heese A, et al. **Hautarzt** 1996 Nov;47(11):817–24 (40 ref.) (Eng. Abstr.) **(Ger)**

[Perforation of surgical gloves during cesarean section] Panduro-Barón JG, et al. **Ginecol Obstet Mex** 1996 Sep; 64:430–4 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Postal questionnaire study of disability associated with latex allergy among health care workers in Finland. Kujala VM, et al. **Am J Ind Med** 1997 Sep;32(3):197–204

Hazards from surgical gloves. Ellis H. **Ann R Coll Surg Engl** 1997 May;79(3):161–3 (16 ref.)

Orofacial reactions after contact with latex gloves [letter; comment] Burke FJ, et al. **Br Dent J** 1996 Nov 23; 181(10):361. Comment on: Br Dent J 1996 Aug 24;181(4):137–9.

Delayed and immediate orofacial reactions following contact with rubber gloves during dental treatment [see comments] Shah M, et al. **Br Dent J** 1996 Aug 24;181(4):137–9. Comment in: Br Dent J 1996 Nov 23;181(10):361.

Latex allergy: an emerging health hazard for operating theatre staff. Kam PC, et al. **Br J Surg** 1997 Mar; 84(3):289–90

The first report of latex contact urticaria in Hungary. Temesvári E, et al. **Contact Dermatitis** 1996 Jul;35(1):52–3

The diagnosis and management of health personnel allergic to natural rubber latex gloves. Part II. Fisher AA. **Cutis** 1997 Apr;59(4):168–70 (17 ref.)

Glove powder—a risk factor for the development of latex allergy? Brehler R, et al. **Eur J Surg Suppl** 1997;(579):23–5

Post-operative peritoneal adhesions and foreign bodies. Duron JJ, et al. **Eur J Surg Suppl** 1997;(579):15–6

Mechanisms of adhesion development and effects on wound healing. Holmdahl L. **Eur J Surg Suppl** 1997;(579):7–9 (11 ref.)

Setting standards for product selection: allergy prevention. White IR. **Eur J Surg Suppl** 1997;(579):27–8

Latex sensitivity in dental students and staff: a cross-sectional study. Tarlo SM, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):396–401

The use of powdered gloves in dental practice: a cause for concern? Field EA. **J Dent** 1997 May–Jul;25(3–4):209–14

Surgical glove lubricants: from toxicity to opportunity. Woods JA, et al. **J Emerg Med** 1997 Mar–Apr;15(2):209–20 (59 ref.)

Current perspectives on latex allergy [see comments] Landwehr LP, et al. **J Pediatr** 1996 Mar;128(3):305–12 (63 ref.). Comment in: J Pediatr 1996 Nov;129(5):771–2.

Latex allergy: a real problem [letter] Christopher CN. **Med J Aust** 1996 Oct 21;165(8):460

Transvaginal ultrasound may cause latex anaphylaxis [letter] Bronshtein M, et al. **Ultrasound Obstet Gynecol** 1996 May; 7(5):379–80

[Allergic and irritative disease caused by gloves in the health setting and their prevention. Consensus document of the Italian Preventive Society of Health Laboratories (news)] **Med Lav** 1996 Jul–Aug;87(4):350–9 (0 ref.) **(Ita)**

HISTORY

Gloves and memos [letter; comment] Di Chiro G. **AJNR Am J Neuroradiol** 1996 Feb;17(2):399–400. Comment on: AJNR Am J Neuroradiol 1995 Feb;16(2):351–60.

William S. Halsted and rubber gloves. Tierney J. **Med Health R I** 1997 Jul;80(7):239

STANDARDS

Structural features of latex gloves in dental practice. Tucci MG, et al. **Biomaterials** 1996 Mar;17(5):517–22

The microbial and physical quality of recycled gloves. Hagos B, et al. **East Afr Med J** 1997 Apr;74(4):224–6

Studies of determinants of glove hole puncture during electrosurgery. Neal JG, et al. **J Biomed Mater Res** 1996 Winter;33(4):285–90

STATISTICS & NUMERICAL DATA

Glove failure: an occupational hazard of surgeons in a developing country. Gunasekera PC, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):95–7

Assessment of the risk of glove puncture during oral surgery procedures. Burke FJ, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jul;82(1):18–21

UTILIZATION

Glove utilization and reasons for poor compliance by health care workers in a Nigerian teaching hospital. Adegboye AA, et al. **Trop Doct** 1997 Apr;27(2):93–7

GLQ223 see **TRICHOSANTHIN**

GLUCAGON

see related
RECEPTORS, GLUCAGON

Glucagon and glucagon-like peptides in fishes. Plisetskaya EM, et al. **Int Rev Cytol** 1996;168:187–257 (260 ref.)

ADMINISTRATION & DOSAGE

Glucagon enhances the direct suppressive effect of insulin on hepatic glucose production in humans. Lewis GF, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E371–8

Uptake and metabolism of propionate in the liver isolated from sheep treated with glucagon. Ali AM, et al. **Br J Nutr** 1997 May;77(5):783–93

Near-normalisation of diurnal glucose concentrations by continuous administration of glucagon-like peptide-1 (GLP-1) in subjects with NIDDM. Rachman J, et al. **Diabetologia** 1997 Feb;40(2):205–11

A comparison of glucagon and glucose in prehospital hypoglycaemia. Howell MA, et al. **J Accid Emerg Med** 1997 Jan;14(1):30–2

[Effects of somatostatin and glucagon on secretion of bile lipids in man] Nakamura T, et al. **Klin Med (Mosk)** 1996; 74(9):23–6 **(Rus)**

ADVERSE EFFECTS

Severe allergic reaction to intravenous injection of glucagon [letter] Herskovitz PI, et al. **Radiology** 1997 Mar;202(3):879

AGONISTS

Low level cyclic adenosine 3',5'-monophosphate accumulation analysis of [des-His1, des- Phe6, Glu9] glucagon-NH2 identifies glucagon antagonists from weak partial agonists/antagonists. Van Tine BA, et al. **Endocrinology** 1996 Aug;137(8):3316–22

ANALOGS & DERIVATIVES

Structure-activity studies of hydrophobic amino acid replacements at positions 9, 11 and 16 of glucagon. Sturm NS, et al. **J Pept Res** 1997 Apr;49(4):293–9

ANALYSIS

Distribution of GLP-1 and PACAP receptors in human tissues. Wei Y, et al. **Acta Physiol Scand** 1996 Jul; 157(3):355–7 (7 ref.)

Immunohistochemical identification of pancreatic hormones, neuropeptides and cytoskeletal proteins in pancreas of the camel (Camelus dromedarius). Adeghate E. **J Morphol** 1997 Feb;231(2):185–93

Distribution of glucagon-like peptide-1 and other preproglucagon-derived peptides in the rat hypothalamus and brainstem. Larsen PJ, et al. **Neuroscience** 1997 Mar; 77(1):257–70

ANTAGONISTS & INHIBITORS

Low level cyclic adenosine 3',5'-monophosphate accumulation analysis of [des-His1, des- Phe6, Glu9] glucagon-NH2 identifies glucagon antagonists from weak partial agonists/antagonists. Van Tine BA, et al. **Endocrinology** 1996 Aug;137(8):3316–22

Human glucagon receptor monoclonal antibodies: antagonism of glucagon action and use in receptor characterization. Buggy J, et al. **Horm Metab Res** 1996 May;28(5):215–9

Octreotide long-term treatment in patients with portal hypertension: persistent inhibition of postprandial glucagon response without major changes in renal function. Malesci A, et al. **J Hepatol** 1997 Apr;26(4):816–25

Pure glucagon antagonists: biological activities and cAMP accumulation using phosphodiesterase inhibitors. Azizeh BY, et al. **Peptides** 1997;18(5):633–41

BIOSYNTHESIS

Endoprotease regulation of miniglucagon production. Bataille D, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:1–8; discussion 8–9 (12 ref.)

Synthesis and biochemical characterization of proglucagon-related peptides. Yanaihara N, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:20–9; discussion 29–30 (31 ref.)

Cytoplasmic Ca2+ in glucagon-producing pancreatic alpha-cells exposed to carbachol and agents affecting Na+ fluxes. Berts A, et al. **Endocrine** 1997 Feb;6(1):79–83

FA1 immunoreactivity in endocrine tumours and during development of the human fetal pancreas; negative correlation with glucagon expression. Tornehave D, et al. **Histochem Cell Biol** 1996 Dec;106(6):535–42

Development of morphological changes and ileal glucagon gene expression in the small intestine of lambs infected with Trichostrongylus colubriformis. Roy EA, et al. **J Comp Pathol** 1996 Nov;115(4):441–53

Induction of intestinal epithelial proliferation by glucagon-like peptide 2. Drucker DJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7911–6

Helicobacter pylori infection accelerates gene expression of glicentin in the gastric mucosa. Its association with intestinal metaplasia of the stomach. Ishihara S, et al. **Scand J Gastroenterol** 1997 May;32(5):460–4

BLOOD

Cephalic phase responses to sweet taste. Abdallah L, et al. **Am J Clin Nutr** 1997 Mar;65(3):737–43

Physiological changes in circulating glucagon alter hepatic glucose disposition during portal glucose delivery. Holste LC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E488–96

Hyperglucagonemia and hepatic glucose metabolism during infection in the conscious dog. McGuinness OP, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E580–8

Evidence for acute stimulation of fibrinogen production by glucagon in humans. Tessari P, et al. **Diabetes** 1997 Aug; 48(8):1368–71

The effect of glipizide gastrointestinal therapeutic system on islet cell hormonal responses to a test meal in NIDDM. Mooradian AD, et al. **Diabetes Care** 1996 Aug;19(8):883–4

Effects of subcutaneous glucagon-like peptide 1 (GLP-1 [7-36 amide]) in patients with NIDDM. Nauck MA, et al. **Diabetologia** 1996 Dec;39(12):1546–53

Metabolic and hormonal responses during repeated bouts of brief and intense exercise: effects of pre-exercise glucose ingestion. Wouassi D, et al. **Eur J Appl Physiol** 1997; 76(3):197–202

Effect of octreotide on blood glucose and counterregulatory hormones in insulin-dependent diabetic patients: the role of dose and route of administration. Lunetta M, et al. **Eur J Clin Pharmacol** 1996;51(2):139–44

Do gastric inhibitory polypeptide and glucagon-like peptide-1 (7-36) amide contribute to the hyperinsulinaemia of pregnancy? Gama R, et al. **Horm Metab Res** 1996 May; 28(5):252–4

Early insulin and glucagon responses to different food items. LeBlanc J, et al. **Horm Metab Res** 1996 Jun;28(6):276–9

The first case of insulin-dependent diabetes mellitus with prominent spurious hyperglucagonemia due to interference of immunoglobulin G in glucagon radioimmunoassay (OAL-123) system. Yamamoto Y, et al. **Horm Res** 1996; 45(6):295–9

Insulin and glucagon responses to adrenaline infusion in abdominal obese men. Mauriège P, et al. **Int J Obes Relat Metab Disord** 1996 Jul;20(7):668–76

Hyperglucagonaemia in cirrhotic patients and its relationship to the severity of cirrhosis and haemodynamic values. Lin HC, et al. **J Gastroenterol Hepatol** 1996 May;11(5):422–8

Mechanisms of hyperinsulinemia and hyperglucagonemia after liver transplantation. Sika M, et al. **J Surg Res** 1997 Jul 1;70(2):144–50

Clinical spectrum of hyperglucagonemia associated with malignant neuroendocrine tumors. Wermers RA, et al. **Mayo Clin Proc** 1996 Nov;71(11):1030–8

Dose-response for glucagonostatic effect of amylin in rats. Gedulin BR, et al. **Metabolism** 1997 Jan;46(1):67–70

Time course of the defective alpha-cell response to hypoglycemia in diabetic BB rats. Jacob RJ, et al. **Metabolism** 1996 Nov;45(11):1422–6

Early changes in plasma glucagon and growth hormone response to oral glucose in experimental hyperthyroidism. Tosi F, et al. **Metabolism** 1996 Aug;45(8):1029–33

[The level of gastrin, insulin and glucagon in the blood and the morphometric characteristics of the gastric mucosa in peptic ulcer patients of different ages] Haidychuk VS, et al. **Lik Sprava** 1996 Oct-Dec;(10-12):80–4 (Eng. Abstr.) **(Ukr)**

CHEMISTRY

Colocalization of calretinin and glucagon in rat pancreatic A cells. Novier A, et al. **Acta Histochem** 1997 Jun; 99(2):217–22

Speculations on the mechanism of hormone-receptor interactions of the secretin/glucagon family of polypeptide hormones derived from computational structural studies. Momany FA, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:172–81; discussion 181–3 (18 ref.)

Synthesis and biochemical characterization of proglucagon-related peptides. Yanaihara N, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:20–9; discussion 29–30 (31 ref.)

Structure-activity studies of hydrophobic amino acid replacements at positions 9, 11 and 16 of glucagon. Sturm NS, et al. **J Pept Res** 1997 Apr;49(4):293–9

Identification of amidated forms of GLP-1 in rat tissues using a highly sensitive radioimmunoassay. van Delft J, et al. **Regul Pept** 1997 Jun 18;70(2–3):191–8

DIAGNOSTIC USE

Comparison of tests of stress-released cortisol secretion in pituitary disease [see comments] Orme SM, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):135–40. Comment in: Clin Endocrinol (Oxf) 1997 May;46(5):643–4.

Glucagon-induced plasma C-peptide response in diabetic patients. Influence of body weight and relationship to insulin requirement [letter] Scheen AJ, et al. **Diabetes Metab** 1996 Dec;22(6):455–8

Assessment of residual insulin secretion in diabetic patients using the intravenous glucagon stimulatory test: methodological aspects and clinical applications. Scheen AJ, et al. **Diabetes Metab** 1996 Dec;22(6):397–406 (103 ref.)

Secretory protein 7B2 response to oral glucose loading and intravenous glucagon injection in patients with diabetes mellitus. Hisatomi A, et al. **Fukuoka Igaku Zasshi** 1996 Dec; 87(12):266–73

Superoxide anion (O2-) production and bactericidal capacity of polymorphonuclear neutrophils obtained from patients subjected to glucagon test. Szczepanik A, et al. **Int J Immunopharmacol** 1995 Dec;17(12):1027–31

Frequency of pheochromocytoma in adrenal incidentalomas and utility of the glucagon test for the diagnosis. Bernini GP, et al. **J Endocrinol Invest** 1997 Feb;20(2):65–71

Hepatic enhancement and metastatic lesion conspicuity on CT scans: influence of intravenous glucagon and oral CT contrast material. Warshauer DM, et al. **Radiology** 1997 Feb;202(2):394–8

[Insulin secretion—assay method and its significance] Emoto M, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:418–22 (6 ref.) **(Jpn)**

[Tolbutamide, glucagon, leucine and arginine tolerance test] Hosaka T, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:423–7 (10 ref.) **(Jpn)**

[Glucagon test] Noshiro T, et al. **Nippon Rinsho** 1997 Apr; 55 Suppl 2:357–9 (11 ref.) **(Jpn)**

[Glucagon-propranolol provocative test] Takeda S, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:225–8 (9 ref.) **(Jpn)**

DRUG EFFECTS

Insulin and glucagon immunoreactivity during high-intensity exercise under opiate blockade. Angelopoulos TJ, et al. **Eur J Appl Physiol** 1997;75(2):132–5

GENETICS

Glucagon and GLP-1 receptors: lessons from chimeric ligands and receptors. Hjorth SA, et al. **Acta Physiol Scand** 1996 Jul;157(3):343–5 (12 ref.)

Glucagon gene G3 enhancer: evidence that activity depends on combination of an islet-specific factor and a winged helix protein. Diedrich T, et al. **Biol Chem** 1997 Feb; 378(2):89–98

Proglucagon gene expression is induced by gastrin-releasing peptide in a mouse enteroendocrine cell line. Lü F, et al. **Endocrinology** 1996 Sep;137(9):3710–6

Dietary fiber modulates intestinal proglucagon messenger ribonucleic acid and postprandial secretion of glucagon-like peptide-1 and insulin in rats. Reimer RA, et al. **Endocrinology** 1996 Sep;137(9):3948–56

Tissue-specific and glucose-dependent expression of receptor genes for glucagon and glucagon-like peptide-1 (GLP-1). Yamato E, et al. **Horm Metab Res** 1997 Feb;29(2):56–9

Tissue-specific expression of unique mRNAs that encode proglucagon-derived peptides or exendin 4 in the lizard. Chen YE, et al. **J Biol Chem** 1997 Feb 14;272(7):4108–15

The caudal-related homeodomain protein Cdx-2/3 regulates glucagon gene expression in islet cells. Laser B, et al. **J Biol Chem** 1996 Nov 15;271(46):28984–94

Development of morphological changes and ileal glucagon gene expression in the small intestine of lambs infected with Trichostrongylus colubriformis. Roy EA, et al. **J Comp Pathol** 1996 Nov;115(4):441–53

Short-chain fatty acids increase proglucagon and ornithine decarboxylase messenger RNAs after intestinal resection in rats. Tappenden KA, et al. **JPEN J Parenter Enteral Nutr** 1996 Sep-Oct;20(5):357–62

Physical assignment of glucagon and nebulin in cattle, sheep, and goat. Lopez-Corrales NL, et al. **Mamm Genome** 1997 Jun;8(6):428–9

Localization of the rat genes encoding glucagon, glucagon receptor, and insulin receptor, candidates for diabetes mellitus susceptibility loci. Szpirer C, et al. **Mamm Genome** 1997 Aug;8(8):586–8

Incretin hormone expression in the gut of diabetic mice and rats. Berghöfer P, et al. **Metabolism** 1997 Mar;46(3):261–7

Characterization of a novel protein kinase C response element in the glucagon gene. Fürstenau U, et al. **Mol Cell Biol** 1997 Apr;17(4):1805–16

The caudal homeobox protein cdx-2/3 activates endogenous proglucagon gene expression in InR1-G9 islet cells. Jin T, et al. **Mol Endocrinol** 1997 Feb;11(2):203–9

Distribution of glucagon-like peptide-1 and other preproglucagon-derived peptides in the rat hypothalamus and brainstem. Larsen PJ, et al. **Neuroscience** 1997 Mar; 77(1):257–70

The Xenopus proglucagon gene encodes novel GLP-1-like peptides with insulinotropic properties. Irwin DM, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7915–20

IMMUNOLOGY

Intracerebroventricular injection of mammalian and chicken glucagon-like peptide-1 inhibits food intake of the neonatal chick. Furuse M, et al. **Brain Res** 1997 Apr 25;755(1):167–9

Quantitative anatomy, synaptic connectivity and physiology of amacrine cells with glucagon-like immunoreactivity in the turtle retina. Eldred WD, et al. **J Neurocytol** 1996 May; 25(5):347–64

ISOLATION & PURIFICATION

Effect of mobile phase composition on selectivity in preparative hydrophobic interaction chromatographic purification of glucagon. Angelova M, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):251–5

METABOLISM

Glucagon and GLP-1 receptors: lessons from chimeric ligands and receptors. Hjorth SA, et al. **Acta Physiol Scand** 1996 Jul;157(3):343–5 (12 ref.)

Beta-cell receptors for glucagon/GLP-1? Properties of exendin(9-39) in mouse islets. Kofod H, et al. **Acta Physiol Scand** 1996 Jul;157(3):347

Speed of glucagon's glycogenolytic effect [letter; comment] Geary N, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E720–1 . Comment on: Am J Physiol 1995 Aug;269(2 Pt 1):E231–8.

Occurrence and putative hormone regulatory function of a constitutive heme oxygenase in rat pancreatic islets. Henningsson R, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C703–9

Glucagon and its receptor in various tissues. Christophe J. **Ann N Y Acad Sci** 1996 Dec 26;805:31–42; discussion 42–3 (69 ref.)

Impairment by interleukin 1 beta and tumour necrosis factor alpha of the glucagon-induced increase in phosphoenolpyruvate carboxykinase gene expression and gluconeogenesis in cultured rat hepatocytes [published erratum appears in Biochem J 1997 Feb 1;321(Pt 3):903] Christ B, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):161–6

Potentiation of GLP-1 insulinotropic action by a nonglucidic nutrient in the pancreas of diabetic GK rats. Leclercq-Meyer V, et al. **Biochem Mol Med** 1996 Oct; 59(1):87–90

In vivo assessment of metabolic perturbations following alanine and glucagon administration using 31P-MRS in the rat. Changani KK, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):290–304

Effect of (8-32) salmon calcitonin, an amylin antagonist, on insulin, glucagon and somatostatin release: study in the perfused pancreas of the rat. Silvestre RA, et al. **Br J Pharmacol** 1996 Jan;117(2):347–50

Inositolphosphoglycans and diacylglycerol are possible mediators in the glycogenic effect of GLP-1(7-36)amide in BC3H-1 myocytes. Galera C, et al. **Cell Biochem Funct** 1996 Mar;14(1):43–8

Calcium reverses octreotide inhibition of insulin and glucagon levels in patients with insulinoma and glucagonoma. Thompson CS, et al. **Digestion** 1996;57 Suppl 1:62–8

Interleukin-6 and stress hormone responses after uncomplicated gasless laparoscopic-assisted and open sigmoid colectomy. Fukushima R, et al. **Dis Colon Rectum** 1996 Oct;39(10 Suppl):S29–34

Amylin, amyloid and age-related disease. Cooper GJ, et al. **Drugs Aging** 1996 Sep;9(3):202–12 (133 ref.)

Distribution of glucagon receptors on hormone-specific endocrine cells of rat pancreatic islets. Kieffer TJ, et al. **Endocrinology** 1996 Nov;137(11):5119–25

Glucagon response to hypoglycemia is improved by insulin-independent restoration of normoglycemia in diabetic rats. Shi ZQ, et al. **Endocrinology** 1996 Aug; 137(8):3193–9

The influence of corticosterone and glucagon on metabolic recovery from exhaustive exercise in the desert iguana Dipsosaurus dorsalis. Scholnick DA, et al. **Gen Comp Endocrinol** 1997 May;106(2):147–54

Effect of glutamine or glucagon-insulin enriched total parenteral nutrition on liver and gut in 70% hepatectomized rats with colon stenosis. Yamaguchi T, et al. **J Am Coll Surg** 1997 Aug;185(2):156–62

Effects of dietary manipulations and glucose infusion on glucagon response during exercise in rats. Tadjoré M, et al. **J Appl Physiol** 1997 Jul;83(1):148–52

Arginine-induced pancreatic hormone secretion during exercise in rats. Trabelsi F, et al. **J Appl Physiol** 1996 Dec; 81(6):2528–33

Regulation of [15N]urea synthesis from [5-15N]glutamine. Role of pH, hormones, and pyruvate. Nissim I, et al. **J Biol Chem** 1996 Dec 6;271(49):31234–42

The role of phenylalanine at position 6 in glucagon's mechanism of biological action: multiple replacement analogues of glucagon. Azizeh BY, et al. **J Med Chem** 1997 Aug 1;40(16):2555–62

Effect of intrathecal morphine on blood glucose, glucagon and tissue glycogen in rat: comparison with the effect of

xanthan gum on blood glucose. el Daly ES. **J Pharm Belg** 1996 Jul-Aug;51(4):195-9

Insulin and glucagon responses to provocation with glucose and arginine in prepubertal children with thalassemia major before and after long-term blood transfusion. Soliman AT, et al. **J Trop Pediatr** 1996 Oct;42(5):291-6

Diminution of the O2 responsiveness of the glucagon-dependent activation of the phosphoenolpyruvate carboxykinase gene in rat hepatocytes by long-term culture at venous PO2. Kietzmann T, et al. **Kidney Int** 1997 Feb;51(2):542-7

Pure glucagon antagonists: biological activities and cAMP accumulation using phosphodiesterase inhibitors. Azizeh BY, et al. **Peptides** 1997;18(5):633-41

Endoproteolysis of glucagon-like peptide (GLP)-1 (7-36) amide by ectopeptidases in RINm5F cells. Hupe-Sodmann K, et al. **Peptides** 1997;18(5):625-32

Defective prohormone processing and altered pancreatic islet morphology in mice lacking active SPC2. Furuta M, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6646-51

The amino terminal domain of the glucagon-like peptide-1 receptor is a critical determinant of subtype specificity. Graziano MP, et al. **Receptors Channels** 1996;4(1):9-17

GLP-1/GIP chimeric peptides define the structural requirements for specific ligand-receptor interaction of GLP-1. Gallwitz B, et al. **Regul Pept** 1996 May 7; 63(1):17-22

Effect of chronic pancreatic juice diversion on enteroglucagon secretion and intestinal mucosal growth in dogs. Doi T, et al. **Tohoku J Exp Med** 1995 Dec; 177(4):279-91

PHARMACOLOGY

Effect of glucagon and somatostatin on pancreatic secretion in dogs. Arkosy P, et al. **Acta Physiol Hung** 1996; 84(2):139-46

Effects of glucagon-like peptide-1 on membrane potential and ion channels of mouse pancreatic beta-cells. Britsch S, et al. **Acta Physiol Scand** 1996 Jul;157(3):353

The signal transduction of the glucagon-like peptide 1 receptor: fishing beyond the protein kinase level. Göke B, et al. **Acta Physiol Scand** 1996 Jul;157(3):321-8

Signal transduction and desensitization of the glucagon-like peptide-1 receptor. Thorens B, et al. **Acta Physiol Scand** 1996 Jul;157(3):317-9

Decreased glucose-induced cAMP and insulin release in islets of diabetic rats: reversal by IBMX, glucagon, GIP. Dachicourt N, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E725-32

Speed of glucagon's glycogenolytic effect [letter; comment] Geary N, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E720-1 . Comment on: Am J Physiol 1995 Aug;269(2 Pt 1):E231-8.

Effect of cholestasis on regulation of cAMP synthesis by glucagon and bile acids in isolated hepatocytes. Matsuzaki Y, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G164-74

Vagal hepatopancreatic reflex effect evoked by intraportal appearance of tGLP-1. Nakabayashi H, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E808-13

Exhaustion of blood glucose response and enhancement of insulin response after repeated glucagon injections in type-2 diabetes: potentiation by progressive hyperglycemia. Castillo MJ, et al. **Ann Endocrinol (Paris)** 1996;57(5):395-402

Effect of PACAP, VIP, glucagon, and GLP1 on cAMP production and insulin release of HIT-T15 cells is passage dependent. Boissard C, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:634-9

On the effects of glucagon-like peptide-1 on blood glucose regulation in normal and diabetic subjects. Holst JJ, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:729-36 (54 ref.)

Triiodothyronine stimulates and glucagon inhibits transcription of the acetyl-CoA carboxylase gene in chick embryo hepatocytes: glucose and insulin amplify the effect of triiodothyronine. Hillgartner FB, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):159-68

Crosstalk between the cAMP and inositol trisphosphate-signalling pathways in pancreatic beta-cells. Liu YJ, et al. **Arch Biochem Biophys** 1996 Oct 15; 334(2):295-302

Glucagon inhibits hepatocyte nitric oxide synthesis. Harbrecht BG, et al. **Arch Surg** 1996 Dec;131(12):1266-72

Rapid Ca2+ influx induced by the action of dibutylhydroquinone and glucagon in the perfused rat liver. Applegate TL, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):463-7

Co-transfection with protein kinase D confers phorbol-ester-mediated inhibition on glucagon-stimulated cAMP accumulation in COS cells transfected to overexpress glucagon receptors. Tobias ES, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):545-51

Desensitization of glucagon-like peptide 1 receptors in insulin-secreting beta TC3 cells: role of PKA-independent mechanisms. Gromada J, et al. **Br J Pharmacol** 1996 Jun; 118(3):769-75

Dexamethasone-induced alterations in glucose tolerance and, insulin, glucagon and adrenaline responses during the first month in White Leghorn chicks. Joseph J, et al. **Br Poult Sci** 1996 Jul;37(3):665-76

Reassessment of the effect of glucagon and nucleotides on Candida albicans germ tube formation. Zelada A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):567-76

Formation of actin filament networks in cultured rat hepatocytes treated with DMSO and glucagon. Kojima T, et al. **Cell Struct Funct** 1997 Apr;22(2):269-78

No effect of beta-adrenergic blockade on hypoglycaemic effect of glucagon-like peptide-1 (GLP-1) in normal subjects. Toft-Nielsen M, et al. **Diabet Med** 1996 Jun; 13(6):544-8

Blood glucose lowering and glucagonostatic effects of glucagon-like peptide I in insulin-deprived diabetic dogs. Freyse EJ, et al. **Diabetes** 1997 May;46(5):824-8

Glucagon-like peptide I enhances the insulinotropic effect of glibenclamide in NIDDM patients and in the perfused rat pancreas. Gutniak MK, et al. **Diabetes Care** 1996 Aug; 19(8):857-63

Counterregulation by epinephrine and glucagon during insulin-induced hypoglycemia in the conscious dog. Connolly CC, et al. **Diabetes Res Clin Pract** 1996 Mar; 31(1-3):45-56

Effect of various glucagon/insulin molar ratios on blood ketone body levels in rats by use of osmotic minipumps. Ubukata E, et al. **Diabetes Res Clin Pract** 1996 Sep; 34(1):1-6

Effects of glucagon and glucagon-like peptide-1-(7-36) amide on C cells from rat thyroid and medullary thyroid carcinoma CA-77 cell line. Crespel A, et al. **Endocrinology** 1996 Sep;137(9):3674-80

Localization of the domains involved in ligand binding and activation of the glucose-dependent insulinotropic polypeptide receptor. Gelling RW, et al. **Endocrinology** 1997 Jun;138(6):2640-3

Effects of glucagon-like peptide-1 (GLP-1) in RINm5F insulinoma cells. Stimulation of insulin secretion, insulin content, and insulin receptor binding. Jehle PM, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:31-6

The effects of amrinone and glucagon on verapamil-induced myocardial depression in a rat isolated heart model. Tuncok Y, et al. **Gen Pharmacol** 1997 May;28(5):773-6

Glucagon facilitates end-to-end pancreaticojejunostomy. Jordan PH Jr, et al. **J Am Coll Surg** 1997 Apr;184(4):401-2

Section of the vagal celiac branch in man reduces glucagon-stimulated insulin release. Kinami S, et al. **J Auton Nerv Syst** 1997 May 12;64(1):44-8

Arachidonic acid drives mini-glucagon action in cardiac cells. Sauvadet A, et al. **J Biol Chem** 1997 May 9; 272(19):12437-45

Glucagon facilitates adrenal catecholamine release mediated by nicotinic receptors but not by muscarinic receptors in anesthetized dogs. Koshika T, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):585-90

Cyclic AMP is a hepatorenal link influencing natriuresis and contributing to glucagon-induced hyperfiltration in rats. Ahloulay M, et al. **J Clin Invest** 1996 Nov 15;98(10):2251-8

Effects of fatty acids and hormones on fatty acid metabolism and gluconeogenesis in bovine hepatocytes. Cadórniga-Valiño C, et al. **J Dairy Sci** 1997 Apr; 80(4):646-56

Insulin and glucagon release of human islets in vitro: effects of chronic exposure to glucagon. Bertuzzi F, et al. **J Endocrinol** 1997 Feb;152(2):239-43

Trophic effects of glicentin on rat small-intestinal mucosa in vivo and in vitro. Myojo S, et al. **J Gastroenterol** 1997 Jun;32(3):300-5

Effect of glucagon on renal excretion of oxypurinol and purine bases. Yamamoto T, et al. **J Rheumatol** 1997 Apr; 24(4):708-13

The role of Ca2+ in the glucagon-induced enhancement of electrical activity of pancreatic beta-cells. Kitasato H, et al. **Jpn J Physiol** 1997;47 Suppl 1:S29-31

Stimulation of microsomal cholesterol ester hydrolase by glucagon, cyclic AMP analogues, and vasopressin in isolated rat hepatocytes. Hernández ML, et al. **Lipids** 1996 Mar;31(3):269-76

Protein synthesis rates of skeletal muscle, lymphocytes, and albumin with stress hormone infusion in healthy man. McNurlan MA, et al. **Metabolism** 1996 Nov;45(11):1388-94

Extrapancreatic action of truncated glucagon-like peptide-I in Otsuka Long-Evans Tokushima Fatty rats, an animal model for non-insulin-dependent diabetes mellitus. Mizuno A, et al. **Metabolism** 1997 Jul;46(7):745-9

Absence of short-term effects of glucagon-like peptide-1 and of hyperglycemia on plasma leptin levels in man. Shalev A, et al. **Metabolism** 1997 Jul;46(7):723-5

Effect of glucagon on the xylitol-induced increase in the plasma concentration and urinary excretion of purine bases. Yamamoto T, et al. **Metabolism** 1996 Nov;45(11):1354-9

Desensitization and phosphorylation of the glucagon-like peptide-1 (GLP-1) receptor by GLP-1 and 4-phorbol 12-myristate 13-acetate. Widmann C, et al. **Mol Endocrinol** 1996 Jan;10(1):62-75

Regulation of the biological activity of glucagon-like peptide 2 in vivo by dipeptidyl peptidase IV. Drucker DJ, et al. **Nat Biotechnol** 1997 Jul;15(7):673-7

A role for central glucagon-like peptide-1 in temperature regulation. O'Shea D, et al. **Neuroreport** 1996 Feb 29; 7(3):830-2

The effect of glucagon on spontaneous contractility of isolated pregnant uterine muscle. Shin YK, et al. **Obstet Gynecol** 1996 Nov;88(5):867-71

Ligand-induced regulation of glucagon-like peptide-I receptor function and expression in insulin-secreting beta cells. Fehmann HC, et al. **Pancreas** 1996 Oct;13(3):273-82

Attenuation of the anorectic effects of glucagon, cholecystokinin, and bombesin by the amylin receptor antagonist CGRP(8-37). Lutz TA, et al. **Peptides** 1996; 17(1):119-24

PHYSIOLOGY

Molecular mechanism underlying glucagon-like peptide 1 induced calcium mobilization from internal stores in insulin-secreting beta TC3 cells. Gromada J, et al. **Acta Physiol Scand** 1996 Jul;157(3):349-51 (7 ref.)

Glucagon, glucagon-like peptide-1 and their receptors: an introduction. Holst JJ. **Acta Physiol Scand** 1996 Jul; 157(3):309-15 (65 ref.)

In vitro insulinomimetic [corrected] effects of GLP-1 in liver, muscle and fat [published erratum appears in Acta Physiol Scand 1996 Nov;158(3):297] Valverde I, et al. **Acta Physiol Scand** 1996 Jul;157(3):359-60 (11 ref.)

Central glucagon-like peptide-I in the control of feeding. Gunn I, et al. **Biochem Soc Trans** 1996 May;24(2):581-4 (22 ref.)

Glucose metabolism during exercise in man: the role of insulin and glucagon in the regulation of hepatic glucose production and gluconeogenesis. Lavoie C, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):26-35

Potential for non-shivering thermogenesis in perfused chicken (Gallus domesticus) muscle. Eldershaw TP, et al. **Comp Biochem Physiol A Physiol** 1997 Aug;117(4):545-54

Human studies with glucagon-like-peptide-1: potential of the gut hormone for clinical use. Byrne MM, et al. **Diabet Med** 1996 Oct;13(10):854-60 (70 ref.)

GLP-1 in NIDDM. Holst JJ. **Diabet Med** 1996 Sep;13(9 Suppl 6):S156-60 (48 ref.)

Therapeutic potential of glucagon-like peptide 1 in type 2 diabetes. Nauck M. **Diabet Med** 1996 Sep;13(9 Suppl 5):S39-43 (33 ref.)

Role of the glucagon receptor COOH-terminal domain in glucagon-mediated signaling and receptor internalization. Buggy JJ, et al. **Diabetes** 1997 Sep;46(9):1400-5

Regulation of in vivo ketogenesis: role of free fatty acids and control by epinephrine, thyroid hormones, insulin and glucagon. Beylot M. **Diabetes Metab** 1996 Oct; 22(5):299-304 (44 ref.)

Molecular and cellular aspects of the glucagon receptor: role in diabetes and metabolism. Burcelin R, et al. **Diabetes Metab** 1996 Dec;22(6):373-96 (267 ref.)

Oxyntomodulin: a cAMP-dependent stimulus of rat parietal cell function via the receptor for glucagon-like peptide-1 (7-36)NH2. Schepp W, et al. **Digestion** 1996 Nov-Dec; 57(6):398-405

Direct and indirect effects of insulin in suppressing glucose production in depancreatized dogs: role of glucagon. Giacca A, et al. **Endocrinology** 1997 Mar;138(3):999-1007

Glucagon acts through its own receptors in the presence of functional glucagon-like peptide-1 receptors on hamster insulinoma. Marie JC, et al. **Endocrinology** 1996 Oct; 137(10):4108-14

Multisite regulation of insulin secretion by cAMP-increasing agonists: evidence that glucagon-like peptide 1 and glucagon act via distinct receptors. Gromada J, et al. **Pflugers Arch** 1997 Sep;434(5):515-24

The satiating potency of hepatic portal glucagon in rats is not affected by [corrected] insulin or insulin antibodies [published erratum appears in Physiol Behav 1997 Apr;61(4):631] Geary N, et al. **Physiol Behav** 1997 Feb; 61(2):199-208

Effect of central glucagon infusion on macronutrient selection in rats. Komenami N, et al. **Physiol Behav** 1996 Feb;59(2):383-8

[Glucagon-like peptide 1--a new physiologic mediator of satiety?] Gallwitz B, et al. **Z Gastroenterol** 1996 Nov; 34(11):775-7 **(Ger)**

SECRETION

The effect of L-tryptophan load on endocrine system of pancreas in diabetes mellitus. Martinsone D, et al. **Adv Exp Med Biol** 1996;398:413-6

Pancreatic sympathetic nerves contribute to increased glucagon secretion during severe hypoglycemia in dogs. Havel PJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E20-6

Modulation of gliquidone action by forskolin in the pancreas of normal and GK rats. Leclercq-Meyer V, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E52-8

Insulin secretagogues with an imidazoline structure inhibit arginine-induced secretion from isolated glucagon secretion from isolated rat islets of Langerhans. Mourtada M, et al. **Biochem Biophys Res Commun** 1997 Jul 9; 236(1):162-6

Interaction of the islet nitric oxide system with L-arginine-induced secretion of insulin and glucagon in mice. Akesson B, et al. **Br J Pharmacol** 1996 Oct; 119(4):758-64

Involvement of nitric oxide in arginine, but not glucose, induced insulin secretion in normal men. Coiro V, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):115-9

In vivo and in vitro effects of somatostatin and insulin on glucagon release in a human glucagonoma. Waeber G, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):637-42

Glucagon-like peptide I and glucose-dependent insulinotropic polypeptide stimulate Ca2+-induced secretion in rat alpha-cells by a protein kinase A-mediated mechanism. Ding WG, et al. **Diabetes** 1997 May; 46(5):792-800

The defective glucagon response from transplanted

intrahepatic pancreatic islets during hypoglycemia is transplantation site-determined. Gupta V, et al. **Diabetes** 1997 Jan;46(1):28-33

Activation of autonomic nerves and the adrenal medulla contributes to increased glucagon secretion during moderate insulin-induced hypoglycemia in women. Havel PJ, et al. **Diabetes** 1997 May;46(5):801-7

Insulinotropic glucagon-like peptide I receptor expression in glucagon-producing alpha-cells of the rat endocrine pancreas. Heller RS, et al. **Diabetes** 1997 May;46(5):785-91

Defective glucagon secretion during sustained hypoglycemia following successful islet allo- and autotransplantation in humans. Kendall DM, et al. **Diabetes** 1997 Jan;46(1):23-7

Glucagonostatic actions and reduction of fasting hyperglycemia by exogenous glucagon-like peptide I(7-36) amide in type I diabetic patients. Creutzfeldt WO, et al. **Diabetes Care** 1996 Jun;19(6):580-6

Mitochondrial gene abnormalities and alpha- and beta-cell dysfunction [letter; comment] Odawara M, et al. **Diabetes Care** 1996 Oct;19(10):1166-7. Comment on: Diabetes Care 1995 Nov;18(11):1507-9.

Effect of C-peptide on insulin and glucagon release by isolated perfused rat pancreas. Leclercq-Meyer V, et al. **Diabetes Metab** 1997 Apr;23(2):149-54

Adrenoceptor antagonists, but not guanethidine, reduce glucopenia-induced glucagon secretion from perfused rat pancreas. Ito K, et al. **Diabetes Res Clin Pract** 1995 Dec; 30(3):173-80

Effects of aminoguanidine on glucagon and insulin release from rat pancreatic islet. Tasaka Y, et al. **Endocr J** 1996 Dec;43(6):725-30

Gut incretin hormones in identical twins discordant for non-insulin-dependent diabetes mellitus (NIDDM)--evidence for decreased glucagon-like peptide 1 secretion during oral glucose ingestion in NIDDM twins. Vaag AA, et al. **Eur J Endocrinol** 1996 Oct;135(4):425-32

Resolution of superficial necrolytic dermatitis following excision of a glucagon-secreting pancreatic neoplasm in a dog. Torres SM, et al. **J Am Anim Hosp Assoc** 1997 Jul-Aug;33(4):313-9

Pituitary adenylate cyclase-activating polypeptide stimulates insulin and glucagon secretion in humans. Filipsson K, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3093-8

The use of tolbutamide-induced hypoglycemia to examine the intraislet role of insulin in mediating glucagon release in normal humans. Peacey SR, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1458-61

Insulin and glucagon release of human islets in vitro: effects of chronic exposure to glucagon. Bertuzzi F, et al. **J Endocrinol** 1997 Feb;152(2):239-43

Adrenaline stimulates glucagon secretion in pancreatic A-cells by increasing the Ca2+ current and the number of granules close to the L-type Ca2+ channels. Gromada J, et al. **J Gen Physiol** 1997 Sep;110(3):217-28

Pancreatic alpha-cell function in idiopathic reactive hypoglycemia. Ahmadpour S, et al. **Metabolism** 1997 Jun; 46(6):639-43

The effect of bradykinin on secretion of insulin, glucagon, and somatostatin from the perfused rat pancreas. Yang C, et al. **Metabolism** 1997 Oct;46(10):1113-5

Galanin is a potent inhibitor of glucagon-like peptide-1 secretion from rat ileum. Herrmann-Rinke C, et al. **Peptides** 1996;17(4):571-6

Atrial natriuretic peptide (ANP)-induced inhibition of glucagon secretion: mechanism of action in isolated rat pancreatic islets. Verspohl EJ, et al. **Peptides** 1996; 17(6):1023-9

Secretion of the incretin hormones glucagon-like peptide-1 and gastric inhibitory polypeptide correlates with insulin secretion in normal man throughout the day. Orskov C, et al. **Scand J Gastroenterol** 1996 Jul;31(7):665-70

The release of gastric inhibitory peptide, glucagon-like peptide-I, and insulin after oral glucose test in colectomized subjects. Palnaes Hansen C, et al. **Scand J Gastroenterol** 1997 May;32(5):473-7

THERAPEUTIC USE

Glucagon and phenylephrine combination vs glucagon alone in experimental verapamil overdose [see comments] Stone CK, et al. **Acad Emerg Med** 1996 Feb;3(2):120-5. Comment in: Acad Emerg Med 1996 Feb;3(2):99-100.

Use of glucagon for acute intravenous diltiazem toxicity. Mahr NC, et al. **Am J Cardiol** 1997 Jun 1;79(11):1570-1

Glucagon and phenol toxicity [letter] Bey TA, et al. **Ann Emerg Med** 1997 Sep;30(3):353-4

Glucagon therapy in the treatment of symptomatic bradycardia. Love JN, et al. **Ann Emerg Med** 1997 Jan; 29(1):181-3

Human studies with glucagon-like-peptide-1: potential of the gut hormone for clinical use. Byrne MM, et al. **Diabet Med** 1996 Oct;13(10):854-60 (70 ref.)

Therapeutic potential of glucagon-like peptide 1 in type 2 diabetes. Nauck M. **Diabet Med** 1996 Sep;13(9 Suppl 5):S39-43 (33 ref.)

Glucagon-like peptide I enhances the insulinotropic effect of glibenclamide in NIDDM patients and in the perfused rat pancreas. Gutniak MK, et al. **Diabetes Care** 1996 Aug; 19(8):857-63

The antidiabetogenic effect of GLP-1 is maintained during a 7-day treatment period and improves diabetic dyslipoproteinemia in NIDDM patients. Juntti-Berggren L, et al. **Diabetes Care** 1996 Nov;19(11):1200-6

A prospective, double-blind trial of L-hyoscyamine versus glucagon for the inhibition of small intestinal motility during ERCP. Lahoti S, et al. **Gastrointest Endosc** 1997 Aug;46(2):139-42

The effects of amrinone and glucagon on verapamil-induced cardiovascular toxicity in anaesthetized rats. Tuncok Y, et al. **Int J Exp Pathol** 1996 Oct;77(5):207-12

TOXICITY

Experimental study of the detrimental effect of dopamine/glucagon combination in d,l-propranolol intoxication. Toet AE, et al. **Hum Exp Toxicol** 1996 May; 15(5):411-21

GLUCAGON RECEPTORS see **RECEPTORS, GLUCAGON**

GLUCAGONOMA

[Treatment of liver metastasis of endocrine tumors of the pancreas] Orozco Zepeda H. **Rev Gastroenterol Mex** 1997 Jan-Mar;62(1):50-6 (28 ref.) (Eng. Abstr.) **(Spa)**

COMPLICATIONS

A persistent periorificial eruption. Necrolytic migratory erythema (NME) (glucagonoma). Huang W, et al. **Arch Dermatol** 1997 Jul;133(7):909, 912

[Facial erythema and pancreatic glucagonoma] Erce C, et al. **Rev Esp Enferm Dig** 1997 Feb;89(2):137-8 (14 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Gastrointestinal endocrine tumours. Glucagonomas. Frankton S, et al. **Baillieres Clin Gastroenterol** 1996 Dec; 10(4):697-705 (19 ref.)

Neuroendocrine tumors: common presentations of uncommon diseases. Kirkwood KS, et al. **Compr Ther** 1995 Dec;21(12):719-25

Glucagonoma associated with calculous pancreatitis. Mao C, et al. **HPB Surg** 1996;9(2):77-81 (24 ref.)

Glucagonoma and pseudoglucagonoma syndromes. Schwartz RA. **Int J Dermatol** 1997 Feb;36(2):81-9 (119 ref.)

Clinically silent pancreatic glucagonomas discovered in resected specimens by immunohistochemistry. Hashimoto M, et al. **Surgery** 1997 Sep;122(3):632-3

DRUG THERAPY

The use of new somatostatin analogues, lanreotide and octastatin, in neuroendocrine gastro-intestinal tumours. Eriksson B, et al. **Digestion** 1996;57 Suppl 1:77-80

GENETICS

Cystic glucagonoma with loss of heterozygosity on chromosome 11 in multiple endocrine neoplasia type 1. Sarui H, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):511-6

PATHOLOGY

A small glucagonoma of the pancreas with evident ductular and tubular structures. Morikane K, et al. **J Gastroenterol** 1997 Aug;32(4):562-5

Induction of intestinal epithelial proliferation by glucagon-like peptide 2. Drucker DJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7911-6

Intravascular tumor: a previously unreported finding of glucagonoma. Geehan DM, et al. **South Med J** 1997 Jul; 90(7):743-7

[Glucagonoma: case report and literature review] das Neves MM, et al. **Arq Gastroenterol** 1996 Jul-Sep;33(3):167-72 (31 ref.) (Eng. Abstr.) **(Por)**

RADIONUCLIDE IMAGING

Internalization of indium-111 into human neuroendocrine tumor cells after incubation with indium-111-DTPA-D-Phe1-octreotide. Andersson P, et al. **J Nucl Med** 1996 Dec;37(12):2002-6

SECRETION

In vivo and in vitro effects of somatostatin and insulin on glucagon release in a human glucagonoma. Waeber G, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):637-42

THERAPY

[Paraneoplastic spastic tetraparesis in glucagonoma syndrome. Successful therapy with octreotide, dacarbazine and interferon-alpha] Strohm WD. **Z Gastroenterol** 1996 Jul;34(7):438-45 (Eng. Abstr.) **(Ger)**

GLUCAN 1,4-ALPHA-GLUCOSIDASE

see related
GLYCOGEN STORAGE DISEASE TYPE II

ANTAGONISTS & INHIBITORS

Automated docking of glucoamylase substrates and inhibitors. Coutinho PM, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:164-71

[Degradation of Maillard reaction products by amylolytic enzymes. 3. Inhibition of glucoamylase, alpha-amylase and alpha-glucosidase by heat treated alpha-glucans and melanoidins] Schumacher D, et al. **Z Lebensm Unters Forsch** 1996 Oct;203(4):391-4 (Eng. Abstr.) **(Ger)**

BIOSYNTHESIS

Segregation of yeast polymorphic STA genes in meiotic recombinants and analysis of glucoamylase production. Balogh I, et al. **Can J Microbiol** 1996 Dec;42(12):1190-6

Overexpression and characterization of Aspergillus awamori wild-type and mutant glucoamylase secreted by the methylotrophic yeast Pichia pastoris: comparison with wild-type recombinant glucoamylase produced using Saccharomyces cerevisiae and Aspergillus niger as hosts. Fierobe HP, et al. **Protein Expr Purif** 1997 Mar;9(2):159-70

BLOOD

Case report: lysosomal glycogen storage disease with normal acid maltase: an unusual form of hypertrophic cardiomyopathy with rapidly progressive heart failure. Tse HF, et al. **Am J Med Sci** 1996 Oct;312(4):182-6

CHEMISTRY

Automated docking of glucoamylase substrates and inhibitors. Coutinho PM, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:164-71

Function of conserved tryptophans in the Aspergillus niger glucoamylase 1 starch binding domain. Williamson MP, et al. **Biochemistry** 1997 Jun 17;36(24):7535-9

Characterization of the active site of Schwanniomyces occidentalis glucoamylase by in vitro mutagenesis. Hülseweh B, et al. **Eur J Biochem** 1997 Feb 15; 244(1):128-33

Structure and energetics of the glucoamylase-isomaltose transition-state complex probed by using modeling and deoxygenated substrates coupled with site-directed mutagenesis. Frandsen TP, et al. **J Mol Biol** 1996 Oct 18; 263(1):79-89

Effect of replacing helical glycine residues with alanines on reversible and irreversible stability and production of Aspergillus awamori glucoamylase. Chen HM, et al. **Protein Eng** 1996 Jun;9(6):499-505

Deletion analysis of the starch-binding domain of Aspergillus glucoamylase. Chen L, et al. **Protein Eng** 1995 Oct; 8(10):1049-55

Automated docking of monosaccharide substrates and analogues and methyl alpha-acarviosinide in the glucoamylase active site. Coutinho PM, et al. **Proteins** 1997 Feb;27(2):235-48

Solution structure of the granular starch binding domain of Aspergillus niger glucoamylase bound to beta-cyclodextrin. Sorimachi K, et al. **Structure** 1997 May 15;5(5):647-61

DEFICIENCY

Pathological study of Japanese quail embryo with acid alpha-glucosidase deficiency during early development. Miyagawa-Tomita S, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):249-54

Prolonged respiratory depression after anesthesia for parathyroidectomy in a patient with juvenile type of acid maltase deficiency [letter] Kotani N, et al. **J Clin Anesth** 1996 Nov;8(7):620

Skeletal muscle weakness and dysphagia caused by acid maltase deficiency: nutritional consequences of coincident celiac sprue. King TS, et al. **JPEN J Parenter Enteral Nutr** 1997 Jan-Feb;21(1):46-9

The rigid spine syndrome due to acid maltase deficiency. Fadic R, et al. **Muscle Nerve** 1997 Mar;20(3):364-6

GENETICS

Expression and functional analysis of a hyperglycosylated glucoamylase in a parental host, Aspergillus awamori var. kawachi. Goto M, et al. **Appl Environ Microbiol** 1997 Jul; 63(7):2940-3

Glucoamylase gene fusions alleviate limitations for protein production in Aspergillus awamori at the transcriptional and (post) translational levels. Gouka RJ, et al. **Appl Environ Microbiol** 1997 Feb;63(2):488-97

Glycogen-storage disease type II (acid maltase deficiency): identification of a novel small deletion (delCC482+483) in French patients. Nicolino M, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):138-41

Secretion of Bacillus alpha-amylase from yeast directed by glucoamylase I signal sequence of Saccharomyces diastaticus. Kang DO, et al. **Biochem Mol Biol Int** 1996 May;39(1):181-90

Integration of glucoamylase gene from Aspergillus niger into Saccharomyces cerevisiae genome and its stable expression. Tang G, et al. **Chin J Biotechnol** 1995;11(4):237-41

Cloning and function determination of promoter region of glucoamylase gene from Aspergillus niger T21. Tang G, et al. **Chin J Biotechnol** 1996;12(2):131-6

Acid alpha-glucosidase deficiency: identification and expression of a missense mutation (S529V) in a Japanese adult phenotype. Tsunoda H, et al. **Hum Genet** 1996 Apr; 97(4):496-9

FLO11, a yeast gene related to the STA genes, encodes a novel cell surface flocculin. Lo WS, et al. **J Bacteriol** 1996 Dec;178(24):7144-51

GLUCAN 1,4-ALPHA-GLUCOSIDASE

In Saccharomyces cerevisiae a short amino acid sequence facilitates excretion in the growth medium of periplasmic proteins. Venturini M, et al. **Mol Microbiol** 1997 Mar; 23(5):997-1007

Deletion analysis of the starch-binding domain of Aspergillus glucoamylase. Chen L, et al. **Protein Eng** 1995 Oct; 8(10):1049-55

Glucoamylase mutants in the conserved active-site segment Trp170-Tyr175 located at a distance from the site of catalysis. Stoffer BB, et al. **Protein Eng** 1997 Jan;10(1):81-7

Overexpression and characterization of Aspergillus awamori wild-type and mutant glucoamylase secreted by the methylotrophic yeast Pichia pastoris: comparison with wild-type recombinant glucoamylase produced using Saccharomyces cerevisiae and Aspergillus niger as hosts. Fierobe HP, et al. **Protein Expr Purif** 1997 Mar;9(2):159-70

Expression in Pichia pastoris and purification of Aspergillus awamori glucoamylase catalytic domain. Heimo H, et al. **Protein Expr Purif** 1997 Jun;10(1):70-9

Genetic aspects of carbon catabolite repression of the STA2 glucoamylase gene in Saccharomyces cerevisiae. Kartasheva NN, et al. **Yeast** 1996 Oct;12(13):1297-300

ISOLATION & PURIFICATION

Purification and properties of two forms of glucoamylase from Aspergillus niger. Amirul AA, et al. **Folia Microbiol (Praha)** 1996;41(2):165-74

METABOLISM

Performance of coimmobilized yeast and amyloglucosidase in a fluidized bed reactor for fuel ethanol production. Sun MY, et al. **Appl Biochem Biotechnol** 1997 Spring; 63-65:483-93

Expression and functional analysis of a hyperglycosylated glucoamylase in a parental host, Aspergillus awamori var. kawachi. Goto M, et al. **Appl Environ Microbiol** 1997 Jul; 63(7):2940-3

Substrate binding mechanism of Glu180-->Gln, Asp176-->Asn, and wild-type glucoamylases from Aspergillus niger. Christensen U, et al. **Biochemistry** 1996 Nov 26;35(47):15009-18

Identification of enzyme-substrate and enzyme-product complexes in the catalytic mechanism of glucoamylase from Aspergillus awamori. Natarajan SK, et al. **Biochemistry** 1996 Dec 3;35(48):15269-79

Characterisation of a xylanolytic amyloglucosidase of Termitomyces clypeatus. Ghosh AK, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):289-96

Construction of a brewing yeast having glucoamylase activity and its fermentation characteristics. Tang G, et al. **Chin J Biotechnol** 1996;12(4):263-7

Lysosomal enzymes in corneal storage media and corneal graft outcome. Wiffen SJ, et al. **Cornea** 1997 Mar; 16(2):169-76

Purification and properties of two forms of glucoamylase from Aspergillus niger. Amirul AA, et al. **Folia Microbiol (Praha)** 1996;41(2):165-74

Use of a yeast strain expressing glucoamylase in malt whisky fermentations. Klaassen P, et al. **Folia Microbiol (Praha)** 1996;41(1):100-1

Glucoamylase absorption and desorption process. Popa I. **J Biomater Sci Polym Ed** 1996;7(11):925-36

Cerebral oxygen and glucose metabolism in glycogen storage disease with normal acid maltase: case report. Katsumi Y, et al. **J Neurol Sci** 1996 Sep 1;140(1-2):46-52

In Saccharomyces cerevisiae a short amino acid sequence facilitates excretion in the growth medium of periplasmic proteins. Venturini M, et al. **Mol Microbiol** 1997 Mar; 23(5):997-1007

Automated docking of monosaccharide substrates and analogues and methyl alpha-acarviosinide in the glucoamylase active site. Coutinho PM, et al. **Proteins** 1997 Feb;27(2):235-48

Automated docking of glucosyl disaccharides in the glucoamylase active site. Coutinho PM, et al. **Proteins** 1997 Jun;28(2):162-73

GLUCAN ENDO-1,3-BETA-D-GLUCOSIDASE

CHEMISTRY

Purification and properties of a basic endo-1,3-beta-glucanase from rice (Oryza sativa L.). Akiyama T, et al. **Plant Cell Physiol** 1996 Jul;37(5):702-5

GENETICS

Phenotype in Candida albicans of a disruption of the BGL2 gene encoding a 1,3-beta-glucosyltransferase. Sarthy AV, et al. **Microbiology** 1997 Feb;143 (Pt 2):367-76

Highly thermostable endo-1,3-beta-glucanase (laminarinase) LamA from Thermotoga neapolitana: nucleotide sequence of the gene and characterization of the recombinant gene product. Zverlov VV, et al. **Microbiology** 1997 May;143 (Pt 5):1701-8

Expression of a bacterial endo beta-1,3-glucanase gene under the control of CAMV 35S promoter in Nicotiana plumbaguinifolia protoplasts. Oming GW, et al. **Mol Gen Mikrobiol Virusol** 1997;(1):30-4

Multiple copies of PBS2, MHP1 or LRE1 produce glucanase resistance and other cell wall effects in Saccharomyces cerevisiae. Lai MH, et al. **Yeast** 1997 Mar 15;13(3):199-213

Sequence analysis of a near-subtelomeric 35.4 kb DNA segment on the right arm of chromosome VII from Saccharomyces cerevisiae carrying the MAL1 locus reveals 15 complete open reading frames, including ZUO1, BGL2 and BIO2 genes and an ABC transporter gene. Volckaert G, et al. **Yeast** 1997 Mar 15;13(3):251-9

ISOLATION & PURIFICATION

Purification and characterization of a (1-->3)-beta-D-glucan endohydrolase from rice (Oryza sativa) bran. Akiyama T, et al. **Carbohydr Res** 1997 Feb 14;297(4):365-74

Purification and characterization of an endo-1,3-beta-glucanase from Aspergillus fumigatus. Fontaine T, et al. **Eur J Biochem** 1997 Jan 15; 243(1-2):315-21

METABOLISM

Purification and characterization of a (1-->3)-beta-D-glucan endohydrolase from rice (Oryza sativa) bran. Akiyama T, et al. **Carbohydr Res** 1997 Feb 14;297(4):365-74

Multiple copies of PBS2, MHP1 or LRE1 produce glucanase resistance and other cell wall effects in Saccharomyces cerevisiae. Lai MH, et al. **Yeast** 1997 Mar 15;13(3):199-213

GLUCAN PHOSPHORYLASE see **GLYCOGEN PHOSPHORYLASE**

GLUCANS

Effects of breakfast cereals containing various amounts of beta-glucan fibers on plasma glucose and insulin responses in NIDDM subjects. Tappy L, et al. **Diabetes Care** 1996 Aug;19(8):831-4

Effect of temperature and viscosity of sieving medium on electrophoretic behavior of sodium dodecyl sulfate-proteins on capillary electrophoresis in presence of pullulan. Nakatani M, et al. **Electrophoresis** 1996 Jul; 17(7):1210-3

Separation mechanism of pullulan solution-filled capillary electrophoresis of sodium dodecyl sulfate-proteins. Nakatani M, et al. **Electrophoresis** 1996 Oct;17(10):1584-6

Icodextrin instead of glucose during the daytime dwell in CCPD increases ultrafiltration and 24-h dialysate creatinine clearance. Posthuma N, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):550-3

Polyglucose and amino acids: preliminary results. Faller B, et al. **Perit Dial Int** 1997;17 Suppl 2:S63-7

Icodextrin plus glucose combinations for use in CAPD. Peers E. **Perit Dial Int** 1997;17 Suppl 2:S68-9

Future clinical research with icodextrin-containing solutions. Shockley TR, et al. **Perit Dial Int** 1997;17 Suppl 2:S70-4 (43 ref.)

ADMINISTRATION & DOSAGE

Curdlan sulfate (CRDS) in a 21-day intravenous tolerance study in human immunodeficiency virus (HIV) and cytomegalovirus (CMV) infected patients: indication of anti-CMV activity with low toxicity. Gordon M, et al. **J Med** 1997;28(1-2):108-28

ADVERSE EFFECTS

Icodextrin hypersensitivity in a CAPD patient. Lam-Po-Tang MK, et al. **Perit Dial Int** 1997 Jan-Feb; 17(1):82-4

ANALYSIS

Childhood-onset spinocerebellar syndrome associated with massive polyglucosan body deposition. Felice KJ, et al. **Acta Neurol Scand** 1997 Jan;95(1):60-4

Typical polyglucosan bodies are present in the sweat gland lumina in Lafora's disease. Thom M, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):102-3

Mixed-linked beta-glucan from breads of different cereals is partly degraded in the human ileostomy model. Sundberg B, et al. **Am J Clin Nutr** 1996 Dec;64(6):878-85

Airborne (1-->3)-beta-D-glucan and airway disease in a day-care center before and after renovation. Rylander R. **Arch Environ Health** 1997 Jul-Aug;52(4):281-5

Familial dementia due to adult polyglucosan body disease. Bigio EH, et al. **Clin Neuropathol** 1997 Jul-Aug; 16(4):227-34

Detection of peptidoglycan and beta-glucan with silkworm larvae plasma test. Tsuchiya M, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2-3):129-34

(1-->3)-beta-D-glucan determination in rat organs with limulus coagulation factor G. Nakao A, et al. **Res Exp Med (Berl)** 1997;196(6):339-43

[Serological diagnosis for cryptococcosis by the detection of beta-glucan and capsular polysaccharide] Kohno S. **Rinsho Byori** 1996 Jun;44(6):524-7 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Plasma (1-->3)-beta-D-glucan determination for screening deep mycosis] Obayashi T. **Rinsho Byori** 1996 Jun; 44(6):528-32 (8 ref.) (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Kinetic properties of glucosyltransferase adsorbed onto saliva-coated hydroxyapatite. Steinberg D, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):553-66

Characterization of the biosynthesis of beta(1-2) cyclic glucan in R. Fredii. Beta(1-2) glucan has no apparent role in nodule invasion of Mc Call and Peking soybean cultivars. Iñón de Iannino N, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):617-29

Signaling toward yeast 1,3-beta-glucan synthesis. Inoue SB, et al. **Cell Struct Funct** 1996 Oct;21(5):395-402 (58 ref.)

Effects of antibodies against cell surface protein antigen PAc-glucosyltransferase fusion proteins on glucan synthesis and cell adhesion of Streptococcus mutans. Yu H, et al. **Infect Immun** 1997 Jun;65(6):2292-8

Cloning and characterization of the gene for amylosucrase from Neisseria polysaccharea: production of a linear alpha-1,4-glucan. Büttcher V, et al. **J Bacteriol** 1997 May; 179(10):3324-30

Cyclic beta-(1,2)-glucan synthesis in Rhizobiaceae: roles of the 319-kilodalton protein intermediate. Castro OA, et al. **J Bacteriol** 1996 Oct;178(20):6043-8

Cloning of the Candida albicans homolog of Saccharomyces cerevisiae GSC1/FKS1 and its involvement in beta-1,3-glucan synthesis. Mio T, et al. **J Bacteriol** 1997 Jul;179(13):4096-105

Periplasmic cyclic 1,2-beta-glucan in Brucella spp. is not osmoregulated. Briones G, et al. **Microbiology** 1997 Apr; 143 (Pt 4):1115-24

Pullulan production by Aureobasidium pullulans grown on ethanol stillage as a nitrogen source. West TP, et al. **Microbios** 1996;88(354):7-18

A novel yeast gene, RHK1, is involved in the synthesis of the cell wall receptor for the HM-1 killer toxin that inhibits beta-1,3-glucan synthesis. Kimura T, et al. **Mol Gen Genet** 1997 Mar 26;254(2):139-47

Nodule development induced by mutants of Bradyrhizobium japonicum defective in cyclic B-glucan synthesis. Dunlap J, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):546-55

BLOOD

Fungemia in patients with hematologic malignancies: therapeutic effects of concomitant administration of fluconazole and granulocyte-colony-stimulating factor. Niitsu N, et al. **Chemotherapy** 1996 May-Jun;42(3):215-19

(1-->3) beta-D-glucan as a quantitative serological marker for Pneumocystis carinii pneumonia. Yasuoka A, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):197-9

Evaluation of plasma (1-->3)-beta-D-glucan measurement by the kinetic turbidimetric Limulus test, for the clinical diagnosis of mycotic infections. Mori T, et al. **Eur J Clin Chem Clin Biochem** 1997 Jul;35(7):553-60

Blood clearance of (1-->3)-beta-D-glucan in MRL lpr/lpr mice. Miura NN, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):51-57

Comparison between Wako-WB003 and Fungitec G tests for detection of (1-->3)-beta-D-glucan in systemic mycosis. Hossain MA, et al. **J Clin Lab Anal** 1997; 11(2):73-7

Plasma (1-->3)-beta-D-glucan assay and immunohistochemical staining of (1-->3)-beta-D-glucan in the fungal cell walls using a novel horseshoe crab protein (T-GBP) that specifically binds to (1-->3)-beta-D-glucan. Tamura H, et al. **J Clin Lab Anal** 1997;11(2):104-9

Evaluation of the diagnostic value of the measurement of (1-->3)-beta-D-glucan in patients with pulmonary aspergillosis. Yuasa K, et al. **Respiration** 1996;63(2):78-83

[Sero-diagnosis for pulmonary aspergillosis--its utility in early diagnosis] Niki Y. **Rinsho Byori** 1996 Jun;44(6):518-23 (Eng. Abstr.) **(Jpn)**

CHEMICAL SYNTHESIS

Preparation of novel (1-->3)-beta-D-glucans having reducing glucose side chains. Kiho T, et al. **Chem Pharm Bull (Tokyo)** 1997 Apr;45(4):725-7

CHEMISTRY

Insight into the distribution of molecular weights and higher-order structure of hyaluronans and some beta-(1 --> 3)-glucans by size exclusion chromatography. Soltés L, et al. **Biomed Chromatogr** 1996 Mar-Apr;10(2):53-9

Tapping mode Atomic Force Microscopy of scleroglucan networks. Vuppu AK, et al. **Biopolymers** 1997;42(1):89-100

Structural characterization of extracellular polysaccharides produced by fungi from the genus Pleurotus. Gutiérrez A, et al. **Carbohydr Res** 1996 Feb 7;281(1):143-54

Correlation between immunological activity, molar mass, and molecular structure of different (1-->3)-beta-D-glucans. Kulicke WM, et al. **Carbohydr Res** 1997 Jan 2;297(2):135-43

Conformation of cyclic and linear (1 --> 2)-beta-D-glucans in aqueous solution. Mimura M, et al. **Carbohydr Res** 1996 Aug 19;289:25-37

Cyclolaminarinose. A new biologically active beta-(1-->3) cyclic glucan [published erratum appears in Carbohydr Res 1997 Mar 13;298(4):347] Pfeffer PE, et al. **Carbohydr Res** 1996 Dec 24;296:23-37

Lipid A and related compounds. XXX. Synthesis of biologically active N,N'-diacyl chitobiose derivatives

structurally related to lipid A. Ikeda K, et al. **Chem Pharm Bull (Tokyo)** 1996 Oct;44(10):1958–61

Characterization of sodium hypochlorite degradation of beta–glucan in relation to its metabolism in vivo. Miura NN, et al. **Chem Pharm Bull (Tokyo)** 1996 Nov; 44(11):2137–41

Leishmania adleri, a lizard parasite, expresses structurally similar glycoinositolphospholipids to mammalian Leishmania. Previato JO, et al. **Glycobiology** 1997 Jul; 7(5):687–95

Conformation dependency of nitric oxide synthesis of murine peritoneal macrophages by beta–glucans in vitro [corrected and republished article originally printed in Immunol Lett 1996 Aug;52(1):1–7] Ohno N, et al. **Immunol Lett** 1996 Nov; 53(2–3):157–63

Associative behaviour of hydrophobically modified carboxymethylpullulan derivatives. Bataille I, et al. **Int J Biol Macromol** 1997 Jun;20(3):179–91

Structural characterization and solution properties of an acidic branched (1—>3)–beta–D–glucan from Aureobasidium pullulans. Navarini L, et al. **Int J Biol Macromol** 1996 Oct;19(3):157–63

0/w–emulsion of alpha–linolenic acid stabilized with hydrophobized polysaccharide. Its effect on the growth of human colon cancer cells. Fukui H, et al. **J Biomater Sci Polym Ed** 1996;7(10):829–38

Measurement of three–bond coupling constants in the osmoregulated periplasmic glucan of Burkholderia solanacearum. Lippens G, et al. **J Biomol NMR** 1996 Oct; 8(3):311–8

Liver targeting of interferon through pullulan conjugation. Xi K, et al. **Pharm Res** 1996 Dec;13(12):1846–50

[Degradation of Maillard reaction products by amylolytic enzymes. 2. Enzymatic degradation of heat–treated alpha–glucans with and without amino compounds] Kroh LW, et al. **Z Lebensm Unters Forsch** 1996 Oct; 203(4):385–90 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Anti–adhesins of Streptococcus sobrinus. Wang Q, et al. **Adv Exp Med Biol** 1996;408:249–62 (48 ref.)

Correlation between immunological activity, molar mass, and molecular structure of different (1—>3)–beta–D–glucans. Kulicke WM, et al. **Carbohydr Res** 1997 Jan 2;297(2):135–43

[The mechanisms of the formation of heterologous resistance in peroral immunization with a complex anti–influenza preparation] Markevich NA, et al. **Vestn Ross Akad Med Nauk** 1996;(1):51–4 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

The application of various protic acids in the extraction of (1—>3)–beta–D–glucan from Saccharomyces cerevisiae. Müller A, et al. **Carbohydr Res** 1997 Apr 21;299(3):203–8

Soluble (1—>3)–beta–D–glucan purified from Candida albicans: biologic effects and distribution in blood and organs in rabbits. Yoshida M, et al. **J Lab Clin Med** 1996 Jul;128(1):103–14

METABOLISM

Horseshoe crab factor G: a new heterodimeric serine protease zymogen sensitive to (1 —> 3)–beta–D–glucan. Muta T, et al. **Adv Exp Med Biol** 1996;389:79–85 (28 ref.)

Mixed–linked beta–glucan from breads of different cereals is partly degraded in the human ileostomy model. Sundberg B, et al. **Am J Clin Nutr** 1996 Dec;64(6):878–85

Analysis of biomass cellulose in simultaneous saccharification and fermentation processes. Chung YC, et al. **Appl Biochem Biotechnol** 1997 Jun;66(3):249–62

The retention mechanism of cell wall proteins in Saccharomyces cerevisiae. Wall–bound Cwp2p is beta–1,6–glucosylated. van der Vaart JM, et al. **Biochim Biophys Acta** 1996 Dec 6;1291(3):206–14

Sevoflurane anaesthesia for a patient with adult polyglucosan body disease. Inoue S, et al. **Can J Anaesth** 1996 Dec; 43(12):1257–9

The correlation between adhesion of schizophyllan to yeast glucan and its effect on regeneration of yeast protoplast. Hisamatsu M, et al. **Carbohydr Res** 1997 Feb 20; 298(1–2):117–21

Characterization of sodium hypochlorite degradation of beta–glucan in relation to its metabolism in vivo. Miura NN, et al. **Chem Pharm Bull (Tokyo)** 1996 Nov; 44(11):2137–41

Scleroglucan. Wang Y, et al. **Crit Rev Biotechnol** 1996; 16(3):185–215 (160 ref.)

Kupffer cells play important roles in the metabolic degradation of a soluble anti–tumor (1—>3)–beta–D–glucan, SSG, in mice. Suda M, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2–3):93–100

The beta–1, 6–glucan containing side–chain of cell wall proteins of Saccharomyces cerevisiae is bound to the glycan core of the GPI moiety. Van Der Vaart JM, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):401–7

Retention of Saccharomyces cerevisiae cell wall proteins through a phosphodiester–linked beta–1,3–/beta–1,6–glucan heteropolymer. Kapteyn JC, et al. **Glycobiology** 1996 Apr;6(3):337–45

Cloning and sequence analysis of the gbpC gene encoding a novel glucan–binding protein of Streptococcus mutans. Sato Y, et al. **Infect Immun** 1997 Feb;65(2):668–75

Effect of beta–glucanase supplementation to hulless barley– or wheat–soybean meal diets on the digestibilities of energy, protein, beta–glucans, and amino acids in young pigs. Li S, et al. **J Anim Sci** 1996 Jul;74(7):1649–56

Amino acid sequence and molecular structure of an alkaline amylopullulanase from Bacillus that hydrolyzes alpha–1,4 and alpha–1,6 linkages in polysaccharides at different active sites. Hatada Y, et al. **J Biol Chem** 1996 Sep 27; 271(39):24075–83

Architecture of the yeast cell wall. Beta(1—>6)–glucan interconnects mannoprotein, beta(1—>)3–glucan, and chitin. Kollár R, et al. **J Biol Chem** 1997 Jul 11; 272(28):17762–75

The structure and function of a soybean beta–glucan–elicitor–binding protein. Umemoto N, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1029–34

[Degradation of Maillard reaction products by amylolytic enzymes. 3. Inhibition of glucoamylase, alpha–amylase and alpha–glucosidase by heat treated alpha–glucans and melanoidins] Schumacher D, et al. **Z Lebensm Unters Forsch** 1996 Oct;203(4):391–4 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Blood clearance of (1—>3)–beta–D–glucan in MRL lpr/lpr mice. Miura NN, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):51–57

PHARMACOLOGY

Tissue macrophages of calves after high doses of glucan. Levkutová M, et al. **Acta Vet Hung** 1996;44(2):179–88

In vitro effects of glucose polymer–containing peritoneal dialysis fluids on phagocytic activity. Thomas S, et al. **Am J Kidney Dis** 1997 Feb;29(2):246–53

Effect of macrophage stimulation on collagen biosynthesis in the healing wound. Portera CA, et al. **Am Surg** 1997 Feb;63(2):125–31

Effect of glucan immunomodulator on the immune response and larval burdens in mice with experimental toxocarosis. Soltys J, et al. **Appl Parasitol** 1996 Sep;37(3):161–7

Signal transduction pathway on beta–glucans–triggered hydrogen peroxide production by murine peritoneal macrophages in vitro. Okazaki M, et al. **Biol Pharm Bull** 1996 Jan;19(1):18–23

Polysaccharides in fungi. XXXVII. Immunomodulating activities of carboxymethylated derivatives of linear (1—>3)–alpha–D–glucans extracted from the fruiting bodies of Agrocybe cylindracea and Amanita muscaria. Yoshida I, et al. **Biol Pharm Bull** 1996 Jan;19(1):114–21

Carboxymethylated beta–1,3–glucan inhibits the binding and degradation of acetylated low density lipoproteins in macrophages in vitro and modulates their plasma clearance in vivo. Dushkin MI, et al. **Cell Biochem Funct** 1996 Sep; 14(3):209–17

Are the tastes of polycose and monosodium glutamate unique? Hettinger TP, et al. **Chem Senses** 1996 Jun; 21(3):341–7

Glucan–induced disease resistance in tiger shrimp (Penaeus monodon). Song YL, et al. **Dev Biol Stand** 1997;90:413–21

A plasma protein isolated from brown shrimp (Penaeus californiensis) which enhances the activation of prophenoloxidase system by beta–1,3–glucan. Vargas–Albores F, et al. **Dev Comp Immunol** 1996 Sep–Oct; 20(5):299–306

Conformation dependency of nitric oxide synthesis of murine peritoneal macrophages by beta–glucans in vitro [corrected and republished article originally printed in Immunol Lett 1996 Aug;52(1):1–7] Ohno N, et al. **Immunol Lett** 1996 Nov; 53(2–3):157–63

Conformation dependency of nitric oxide synthesis of murine peritoneal macrophages by beta–glucans in vitro [corrected and republished in Immunol Lett 1996 Nov;53(2–3):157–63] Ohno N, et al. **Immunol Lett** 1996 Aug;52(1):1–7

Candida albicans induces the release of inflammatory mediators from human peripheral blood monocytes. Castro M, et al. **Inflammation** 1996 Feb;20(1):107–22

beta–(1—>3, 1—>4) oat glucan enhances resistance to Eimeria vermiformis infection in immunosuppressed mice. Yun CH, et al. **Int J Parasitol** 1997 Mar;27(3):329–37

Effect of beta–glucan level in oat fiber extracts on blood lipids in men and women. Behall KM, et al. **J Am Coll Nutr** 1997 Feb;16(1):46–51

Effect of glucan on murine lupus evolution and on host resistance to Klebsiella pneumoniae. Harima HA, et al. **J Clin Lab Anal** 1997;11(3):175–8

Soluble (1—>3)–beta–D–glucan purified from Candida albicans: biologic effects and distribution in blood and organs in rabbits. Yoshida M, et al. **J Lab Clin Med** 1996 Jul;128(1):103–14

Immunopharmacological activity of the purified insoluble glucan, zymocel, in mice. Suzuki T, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1243–8

Effect of ultrasonicated carboxymethylglucan on cyclophosphamide induced mutagenicity. Chorvatovičová D, et al. **Mutat Res** 1996 Nov 4;371(1–2):115–20

Glycation and advanced glycation end–product formation with icodextrin and dextrose [see comments] Dawnay AB, et al. **Perit Dial Int** 1997 Jan–Feb;17(1):52–8. Comment in: Perit Dial Int 1997 Jan–Feb;17(1):9–10.

Icodextrin's effects on peritoneal transport [see comments] Krediet RT, et al. **Perit Dial Int** 1997 Jan–Feb;17(1):35–41 (34 ref.). Comment in: Perit Dial Int 1997 Jan–Feb;17(1):9–10.

PC–2, linear homoglucan with alpha–linkages, peripherally enhances the hippocampal long–term potentiation. Smriga M, et al. **Pharm Res** 1996 Sep;13(9):1322–6

Beyond sweet taste: saccharin, sucrose, and polycose differ in their effects upon morphine–induced analgesia. D'Anci KE, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):341–5

Microstructural analysis of the ingestive behavior of the rat ingesting polycose. Davis JD. **Physiol Behav** 1996 Dec; 60(6):1557–63

Antiviral effect of a polysaccharide from Sclerotium glucanicum towards herpes simplex virus type 1 infection. Marchetti M, et al. **Planta Med** 1996 Aug;62(4):303–7

Effect of polydextrose on absorption of triglyceride and cholesterol in mesenteric lymph–fistula rats. Ogata S, et al. **Proc Soc Exp Biol Med** 1997 May;215(1):53–8

Biological effects of the immunomodulator beta 1–3D polyglucose are strongly potentiated by conjugation to biodegradable microbeads. Seljelid R, et al. **Scand J Immunol** 1997 Jun;45(6):683–7

Role of the V2, V3, and CD4–binding domains of GP120 in curdlan sulfate neutralization sensitivity of HIV–1 during infection of T lymphocytes. Jagodzinski PP, et al. **Virology** 1996 Dec 15;226(2):217–27

The immunomodulatory effect of the soluble fungal glucan (Pleurotus ostreatus) on delayed hypersensitivity and phagocytic ability of blood leucocytes in mice. Paulík S, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):129–35

[Degradation of Maillard reaction products by amylolytic enzymes. 3. Inhibition of glucoamylase, alpha–amylase and alpha–glucosidase by heat treated alpha–glucans and melanoidins] Schumacher D, et al. **Z Lebensm Unters Forsch** 1996 Oct;203(4):391–4 (Eng. Abstr.) **(Ger)**

[Gamma–plant as a new nontoxic interferon inducer] Chekanovskaia LA. **Vopr Virusol** 1997 May–Jun; 42(3):123–6 (Eng. Abstr.) **(Rus)**

SECRETION

Typical polyglucosan bodies are present in the sweat gland lumina in Lafora's disease. Thom M, et al. **Acta Neuropathol (Berl)** 1996 Jul;92(1):102–3

THERAPEUTIC USE

The use of glucan as immunostimulant in the treatment of paracoccidioidomycosis. Meira DA, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):496–503

Prophylaxis with the immunomodulator PGG glucan enhances antibiotic efficacy in rats infected with antibiotic–resistant bacteria. Tzianabos AO, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:285–7

TOXICITY

Safety studies of a novel starch, pullulan: chronic toxicity in rats and bacterial mutagenicity. Kimoto T, et al. **Food Chem Toxicol** 1997 Mar–Apr;35(3–4):323–9

Pulmonary cell infiltration after chronic exposure to (1—>3)–beta–D–glucan and cigarette smoke. Sjöstrand M, et al. **Inflamm Res** 1997 Mar;46(3):93–7

GLUCARIC ACID

ANALOGS & DERIVATIVES

Noninvasive detection of atherosclerotic lesions by 99mTc–based immunoscintigraphic targeting of proliferating smooth muscle cells. Narula J, et al. **Chest** 1997 Jun;111(6):1684–90

Very early noninvasive detection of acute experimental nonreperfused myocardial infarction with 99mTc–labeled glucarate. Narula J, et al. **Circulation** 1997 Mar 18; 95(6):1577–84

Targeting human breast tumour in xeno–grafted SCID mice with 99Tcm–glucarate. Petrov AD, et al. **Nucl Med Commun** 1997 Mar;18(3):241–51

PHARMACOKINETICS

Metabolism, uptake, and excretion of a D–glucaric acid salt and its potential use in cancer prevention. Walaszek Z, et al. **Cancer Detect Prev** 1997;21(2):178–90

Differentiation of myocardial ischemia and necrosis by technetium 99m glucaric acid kinetics. Beanlands RS, et al. **J Nucl Cardiol** 1997 Jul–Aug;4(4):274–82

Technetium 99m glucarate: what will be its clinical role? [editorial] Gerson MC, et al. **J Nucl Cardiol** 1997 Jul–Aug; 4(4):336–40

Avidity of technetium 99m glucarate for the necrotic myocardium: in vivo and in vitro assessment. Khaw BA, et al. **J Nucl Cardiol** 1997 Jul–Aug;4(4):283–90

URINE

Urinary 6 beta–hydroxycortisol and D–glucaric acid excretion rates are not affected by lansoprazole treatment. Rost KL, et al. **Int J Clin Pharmacol Ther** 1997 Jan; 35(1):14–8

GLUCITOL see **SORBITOL**

GLUCOAMYLASE see **GLUCAN**

GLUCOAMYLASE

1,4-ALPHA-GLUCOSIDASE

GLUCOCEREBROSIDASE see **GLUCOSYLCERAMIDASE**

GLUCOCEREBROSIDES see **GLUCOSYLCERAMIDES**

GLUCOCHLORAL see **CHLORALOSE**

GLUCOCORTICOID ANALOGS see **GLUCOCORTICOIDS, SYNTHETIC**

GLUCOCORTICOID RECEPTORS see **RECEPTORS, GLUCOCORTICOID**

GLUCOCORTICOIDS

see related
RECEPTORS, GLUCOCORTICOID

Glucocorticoid resistant syndromes--molecular basis and clinical presentations. Brönnegård M, et al. **J Neuroendocrinol** 1996 Jun;8(6):405–15 (105 ref.)

Glucocorticoids and growth in asthmatic children. Kamada AK, et al. **Pediatr Allergy Immunol** 1995 Aug;6(3):145–54 (73 ref.)

Glucocorticoid-induced apoptosis and treatment sensitivity in acute lymphoblastic leukemia of children. Csóka M, et al. **Pediatr Hematol Oncol** 1997 Sep–Oct;14(5):433–42

ADMINISTRATION & DOSAGE

Safely withdrawing patients from chronic glucocorticoid therapy. Kountz DS, et al. **Am Fam Physician** 1997 Feb 1;55(2):521–5, 529–30 (10 ref.)

Glucocorticoid-receptor-gene defects and resistance to glucocorticoid-induced apoptosis in human leukemic cell lines. Hala M, et al. **Int J Cancer** 1996 Nov 27;68(5):663–8

How should inhaled glucocorticoids be compared? [editorial] Kamada AK, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):735–7

Factitious Cushing syndrome. Cizza G, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3573–7

Ventilatory management casebook. Gastric perforation probably caused by glucocorticoid administration. McGettigan MC, et al. **J Perinatol** 1996 Jul–Aug; 16(4):309–12

Decrement in the dosing of glucocorticoids in renal transplant recipients [letter; comment] Erdem Y, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):628. Comment on: Nephrol Dial Transplant 1996 Jul;11(7):1243–5.

[Epidural glucocorticoid injection in lumbago sciatica] Ringsdal VS, et al. **Ugeskr Laeger** 1997 Sep 15; 159(38):5653–7 (40 ref.) (Eng. Abstr.) **(Dan)**

[Per oral glucocorticoid is infective for viper bite (letter)] Härkönen M. **Duodecim** 1995;111(18):1803–4 **(Fin)**

[Pharmacological specificities and modalities of prescriptions for corticoids for asthmatic adults] Demoly P, et al. **Presse Med** 1996 Dec 21;25(40):2025–30 (32 ref.) (Eng. Abstr.) **(Fre)**

[Assessment of the hypothalamic-hypophyseal-adrenal axis in patients with chronic obstructive lung disease. Comparison of inhalant with systemic glucocorticoid therapy] Santen RT, et al. **Dtsch Med Wochenschr** 1997 Apr 18;122(16):497–503 (Eng. Abstr.) **(Ger)**

[Topical corticoids are still the first choice for the treatment of eczema] **Hautarzt** 1995 Jun;46(6 Suppl):1–8 **(Ger)**

[Glucocorticoids in hematology and medical oncology] Illiger HJ. **Internist (Berl)** 1997 May;38(5):485–8 **(Ger)**

ADVERSE EFFECTS

An overview of the adverse reactions to adrenal corticosteroids. Frauman AG. **Adverse Drug React Toxicol Rev** 1996 Nov;15(4):203–6 (12 ref.)

Are respiratory infections more frequent in glucocorticoid-dependent asthmatic patients? [editorial; comment] Demoly P, et al. **Allergy** 1997 Feb;52(2):122–3 (17 ref.). Comment on: Allergy 1997 Feb;52(2):144–54.

Suppression of the immune system by oral glucocorticoid therapy in bronchial asthma [see comments] Oehling AG, et al. **Allergy** 1997 Feb;52(2):144–54. Comment in: Allergy 1997 Feb;52(2):122–3.

ACR recommendations target prevention and treatment of glucocorticoid-induced osteoporosis.Task Force on Osteoporosis, American College of Rheumatology. **Am Fam Physician** 1997 Mar;55(4):1450, 1453

Safely withdrawing patients from chronic glucocorticoid therapy. Kountz DS, et al. **Am Fam Physician** 1997 Feb 1;55(2):521–5, 529–30 (10 ref.)

Withdrawing patients from glucocorticoid therapy [letter] Rizvi AA. **Am Fam Physician** 1997 Sep 1;56(3):736–7

New guidelines from rheumatologists association focus on glucocorticoid-induced osteoporosis [news] **Am J Health Syst Pharm** 1997 Apr 1;54(7):744

Glucocorticoid medication, memory and steroid psychosis in medical illness. Wolkowitz OM, et al. **Ann N Y Acad Sci** 1997 Aug 14;823:81–96 (99 ref.)

Glucocorticoidlike activity of megestrol. A summary of Food and Drug Administration experience and a review of the literature. Mann M, et al. **Arch Intern Med** 1997 Aug 11–25; 157(15):1651–6 (23 ref.)

Recommendations for the prevention and treatment of glucocorticoid-induced osteoporosis. American College of Rheumatology Task Force on Osteoporosis Guidelines [see comments] **Arthritis Rheum** 1996 Nov;39(11):1791–801. Comment in: Arthritis Rheum 1997 Aug;40(8):1547. Comment in: Arthritis Rheum 1997 Aug;40(8):1548. Comment in: Arthritis Rheum 1997 Aug;40(8):1548–9. Comment in: Arthritis Rheum 1997 Aug;40(8):1549. Comment in: Arthritis Rheum 1997 Aug;40(8):1550–1. Comment in: Arthritis Rheum 1997 Aug;40(8):1551.

Importance of guidelines on glucocorticoid-induced osteoporosis: comment on the American College of Rheumatology Recommendations for the prevention and treatment of glucocorticoid-induced osteoporosis [letter; comment] Buckley LM. **Arthritis Rheum** 1997 Aug; 40(8):1547. Comment on: Arthritis Rheum 1996 Nov;39(11):1791–801.

Recommendations for exogenous estrogen to prevent glucocorticoid-induced osteoporosis in premenopausal women with oligo- or amenorrhea: comment on the American College of Rheumatology recommendations for the prevention and treatment of glucocorticoid-induced osteoporosis [letter; comment] Buyon JP, et al. **Arthritis Rheum** 1997 Aug;40(8):1548–9. Comment on: Arthritis Rheum 1996 Nov;39(11):1791–801.

Lack of efficacy of calcitonin in preventing glucocorticoid-induced bone loss: comment on the American College of Rheumatology recommendations for the prevention and treatment of glucocorticoid-induced osteoporosis [letter; comment] Fudman EJ. **Arthritis Rheum** 1997 Aug;40(8):1549. Comment on: Arthritis Rheum 1996 Nov;39(11):1791–801.

Management of glucocorticoid-induced osteoporosis--first, do no harm: comment on the American College of Rheumatology recommendations for the prevention and treatment of glucocorticoid-induced osteoporosis [letter; comment] Lukert BP, et al. **Arthritis Rheum** 1997 Aug; 40(8):1548. Comment on: Arthritis Rheum 1996 Nov;39(11):1791–801.

Recommendations for the registration of agents used in the prevention and treatment of glucocorticoid-induced osteoporosis [editorial] Compston JE, et al. **Calcif Tissue Int** 1996 Nov;59(5):323–7

Active vitamin D metabolites in glucocorticoid-induced osteoporosis. Ringe JD. **Calcif Tissue Int** 1997 Jan; 60(1):124–7 (47 ref.)

Glucocorticoid therapy. The Canadian Association of Gastroenterology Practice Affairs Committee. Semlacher EA. **Can J Gastroenterol** 1997 Jul–Aug;11(5):401–2

Osteoporosis [letter] Maksymowych WP. **Can Med Assoc J** 1997 Jun 1;156(11):1534

Glucocorticoid-induced osteoporosis: pathogenesis, prevention and treatment. Gulko PS, et al. **Clin Exp Rheumatol** 1996 Mar–Apr;14(2):199–206 (82 ref.)

Growth suppression by glucocorticoid therapy. Allen DB. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):699–717 (83 ref.)

Effects of glucocorticoids on lymphocyte activation in patients with steroid-sensitive and steroid-resistant asthma. Spahn JD, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1073–9

Glucocorticoid-induced muscle atrophy. The role of exercise in treatment and prevention. LaPier TK. **J Cardiopulm Rehabil** 1997 Mar–Apr;17(2):76–84 (60 ref.)

Clinical review 83: Mechanisms of glucocorticoid action in bone: implications to glucocorticoid-induced osteoporosis. Canalis E. **J Clin Endocrinol Metab** 1996 Oct;81(10):3441–7 (85 ref.)

Is continuous intranasal salmon calcitonin effective in treating axial bone loss in patients with active rheumatoid arthritis receiving low dose glucocorticoid therapy? Kotaniemi A, et al. **J Rheumatol** 1996 Nov;23(11):1875–9

Effect of disodium monofluorophosphate, calcium and vitamin D supplementation on bone mineral density in patients chronically treated with glucocorticosteroids: a prospective, randomized, double-blind study. Lippuner K, et al. **Miner Electrolyte Metab** 1996;22(4):207–13

Increased intraocular pressure with corticosteroid medication after photorefractive keratectomy [letter; comment] Levy Y, et al. **Surv Ophthalmol** 1996 Sep–Oct;41(2):187–8. Comment on: Surv Ophthalmol 1995 Sep–Oct;40(2):89–118.

Efficiency of preventive treatment of glucocorticoid-induced osteoporosis with 25-hydroxyvitamin D3 and calcium in kidney transplant patients. Tałałaj M, et al. **Transplant Proc** 1996 Dec;28(6):3485–7

[Asthmatic children are inhaling steroids--should we be afraid of side-effects?] Sorva R, et al. **Duodecim** 1995; 111(16):1630–5 (43 ref.) **(Fin)**

[Cortisone and children] Pelet B. **Rev Med Suisse Romande** 1996 Dec;116(12):979–84 (22 ref.) **(Fre)**

[Preventing adverse side-effects of glucocorticoid therapy] Schöfl C, et al. **Internist (Berl)** 1997 Apr;38(4):371–8; discussion 379 (32 ref.) **(Ger)**

AGONISTS

Predominately glucocorticoid agonist actions of RU-486 in young specific-pathogen-free Zucker rats. Havel PJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R710–7

ANALOGS & DERIVATIVES see GLUCOCORTICOIDS, SYNTHETIC

ANALYSIS

Social economics of childhood glucocorticoid stress response and health. Flinn MV, et al. **Am J Phys Anthropol** 1997 Jan;102(1):33–53

Identification of novel glucocorticoid-response elements in human elastin promoter and demonstration of nucleotide sequence specificity of the receptor binding. Del Monaco M, et al. **J Invest Dermatol** 1997 Jun;108(6):938–42

Evaluation of hormonal function in a series of incidentally discovered adrenal masses. Bondanelli M, et al. **Metabolism** 1997 Jan;46(1):107–13

ANTAGONISTS & INHIBITORS

DHEA-S selectively impairs contextual-fear conditioning: support for the antiglucocorticoid hypothesis. Fleshner M, et al. **Behav Neurosci** 1997 Jun;111(3):512–7

Intravenous administration of alendronate counteracts the in vivo effects of glucocorticoids on bone remodeling. Falcini F, et al. **Calcif Tissue Int** 1996 Mar;58(3):166–9

Macrophage migration inhibitory factor (MIF): a glucocorticoid counter-regulator within the immune system. Calandra T, et al. **Crit Rev Immunol** 1997; 17(1):77–88 (52 ref.)

Effect of the antiglucocorticoid RU-486 on glomerular hemodynamics in remnant nephrons. Cardoso LR, et al. **Exp Nephrol** 1997 May–Jun;5(3):217–24

Depression-related cognitive impairment: possibilities for its pharmacological treatment. Mitchell AJ, et al. **J Affect Disord** 1996 Jan 22;36(3–4):79–87 (91 ref.)

Effects of RU 486 on energy expenditure and meal tolerance in normal men. Jobin N, et al. **J Am Coll Nutr** 1996 Jun; 15(3):283–8

Metyrapone, an inhibitor of glucocorticoid production, reduces brain injury induced by focal and global ischemia and seizures. Smith-Swintosky VL, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):585–98

Hypertension induced by foetal exposure to a maternal low-protein diet, in the rat, is prevented by pharmacological blockade of maternal glucocorticoid synthesis. Langley-Evans SC. **J Hypertens** 1997 May; 15(5):537–44

Antiprogestins and iatrogenic glucocorticoid resistance. Koper JW, et al. **Life Sci** 1997;60(9):617–24

BIOSYNTHESIS

In vivo regulation of peripheral-type benzodiazepine receptor and glucocorticoid synthesis by Ginkgo biloba extract EGb 761 and isolated ginkgolides. Amri H, et al. **Endocrinology** 1996 Dec;137(12):5707–18

Intraperitoneal administration of ascorbic acid delays the turnover of 3H-labelled cortisol in the plasma of an ODS rat, but not in the Wistar rat. Evidence in support of the cardinal role of vitamin C in the progression of glucocorticoid synthesis. Kodama M, et al. **In Vivo** 1996 Jan–Feb;10(1):97–102

Hypertension induced by foetal exposure to a maternal low-protein diet, in the rat, is prevented by pharmacological blockade of maternal glucocorticoid synthesis. Langley-Evans SC. **J Hypertens** 1997 May; 15(5):537–44

Induction of interleukin-1 and glucocorticoid hormones by HIV promotes viral replication and links human chromosome 2 to AIDS pathogenesis: genetic mechanisms and therapeutic implications. Corley PA. **Med Hypotheses** 1997 May;48(5):415–21 (73 ref.)

BLOOD

The response on glucoregulatory hormones of in vivo whole body hyperthermia. Kappel M, et al. **Int J Hyperthermia** 1997 Jul–Aug;13(4):413–21

Are endogenous glucocorticoid levels adequate in septic shock? [letter; comment] Annane D, et al. **Intensive Care Med** 1996 Jul;22(7):711–2. Comment on: Intensive Care Med 1995 Jan;21(1):57–62.

Characterization of early cytokine responses and an interleukin (IL)-6-dependent pathway of endogenous glucocorticoid induction during murine cytomegalovirus infection. Ruzek MC, et al. **J Exp Med** 1997 Apr 7; 185(7):1185–92

[Circadian changes in the levels of sex and glucocorticoid hormones in the peripheral blood plasma of female silver foxes] Osadchuk LV. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):70–7 (Eng. Abstr.) **(Rus)**

DEFICIENCY

Diminished adrenal androgen secretion in familial glucocorticoid deficiency implicates a significant role for ACTH in the induction of adrenarche. Weber A, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):431–7

Glucocorticoid deficient hypoadrenocorticism in dogs: 18 cases (1986–1995). Lifton SJ, et al. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2076–81

Acute glucocorticoid deficiency is associated with plasma elevations of interleukin-6: does the latter participate in the symptomatology of the steroid withdrawal syndrome and adrenal insufficiency? Papanicolaou DA, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2303–6

Familial glucocorticoid deficiency: one syndrome, but more than one gene. Clark AJ, et al. **J Mol Med** 1997 Jun; 75(6):394–9 (17 ref.)

[Mutations of ACTH receptor gene and familial syndrome of glucocorticoid deficiency] Naville D, et al. **Ann Endocrinol (Paris)** 1996;57(2):101–6 (Eng. Abstr.) **(Fre)**

GENETICS

Use of cDNA cloning to study the mechanism of action of glucocorticoid hormones at the molecular level. Armelin MC, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1751–7 (50 ref.)

PCR–SSCP analysis of the glucocorticoid-responsive element of the atrial natriuretic peptide gene in familial primary open-angle glaucoma. Richardson KA, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):427–9

A one nanosecond molecular dynamics simulation of the glucocorticoid receptor protein in complex with a glucocorticoid response element DNA sequence in a 10 Angstrom water layer. Harris LF, et al. **J Biomol Struct Dyn** 1995 Dec;13(3):423–40

Molecular and functional evidence for in vitro cytokine enhancement of human and murine target cell sensitivity to glucocorticoids. TNF-alpha priming increases glucocorticoid inhibition of TNF-alpha-induced cytotoxicity/apoptosis. Costas M, et al. **J Clin Invest** 1996 Sep 15;98(6):1409–16

Identification of novel glucocorticoid-response elements in human elastin promoter and demonstration of nucleotide sequence specificity of the receptor binding. Del Monaco M, et al. **J Invest Dermatol** 1997 Jun;108(6):938–42

AP-1 regulation of the rat bone sialoprotein gene transcription is mediated through a TPA response element within a glucocorticoid response unit in the gene promoter. Yamauchi M, et al. **Matrix Biol** 1996 Jul;15(2):119–30

Identification of a glucocorticoid repressor domain in the rat beta 1-adrenergic receptor gene. Bahouth SW, et al. **Recept Signal Transduct** 1996;6(3–4):141–9

[Mutations of ACTH receptor gene and familial syndrome of glucocorticoid deficiency] Naville D, et al. **Ann Endocrinol (Paris)** 1996;57(2):101–6 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

MIF rediscovered: cytokine, pituitary hormone, and glucocorticoid-induced regulator of the immune response. Bucala R. **FASEB J** 1996 Dec;10(14):1607–13 (46 ref.)

Glucocorticoids and immune function: unknown dimensions and new frontiers. Wilckens T, et al. **Immunol Today** 1997 Sep;18(9):418–24 (74 ref.)

METABOLISM

The glucocorticoid receptor protein. A hormone-dependent transcription factor. Carlstedt-Duke J. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S7–9; discussion S9–10

Corticosteroid resistance and disease. DeRijk R, et al. **Ann Med** 1997 Feb;29(1):79–82 (27 ref.)

Analysis of glucocorticoid and mineralocorticoid signalling by gene targeting. Berger S, et al. **Endocr Res** 1996 Nov; 22(4):641–52 (19 ref.)

Changed ratios of glucocorticoids/mineralocorticoids caused by point mutations in the putative I-helix regions of CYP11B1 and CYP11B2. Böttner B, et al. **Endocr Res** 1996 Nov;22(4):455–61

Endogenous 11 beta-hydroxysteroid dehydrogenase inhibitors and their role in glucocorticoid Na+ retention and hypertension. Morris DJ, et al. **Endocr Res** 1996 Nov; 22(4):793–801

Abnormal glucocorticoid activity in subjects with risk factors for cardiovascular disease. Walker BR. **Endocr Res** 1996 Nov;22(4):701–8 (26 ref.)

Pathogenesis of oral Kaposi's Sarcoma in HIV-infection: relevance of endogenous glucocorticoid excess in blood and saliva. Enwonwu CO. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):271–4 (49 ref.)

Chronic loss of glucocorticoids following adrenalectomy down-regulates the expression of glucocorticoid receptor mRNA in the rat forebrain. Hu Z, et al. **Eur J Neurosci** 1997 Aug;9(8):1778–83

Hormonal regulation of hepatic enzymes involved in foreign compound metabolism. Prough RA, et al. **FASEB J** 1996 Oct;10(12):1369–77 (39 ref.)

Active catabolism of glucocorticoids by 11 beta-hydroxysteroid dehydrogenase in vivo is a necessary requirement for natural resistance to infection with Listeria monocytogenes. Hennebold JD, et al. **Int Immunol** 1997 Jan;9(1):105–15

The mineralocorticoid receptor discriminates aldosterone from glucocorticoids independently of the 11 beta-hydroxysteroid dehydrogenase. Funder JW. **J Endocrinol Invest** 1995 Jul–Aug;18(7):576–9

Macrophage migration inhibitory factor: a counter-regulator of glucocorticoid action and critical mediator of septic shock. Calandra T, et al. **J Inflamm** 1995–96;47(1–2):39–51 (52 ref.)

11 beta-Hydroxysteroid dehydrogenase 1 activity and gene expression in human adipose stromal cells: effect on aromatase activity. Yang K, et al. **J Steroid Biochem Mol Biol** 1997 Feb;60(3–4):247–53

Contextual dependence of steroid receptor function on an androgen-responsive enhancer. Scheller A, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):75–86

Sequence requirements for secondary glucocorticoid inducibility of rat alpha 2u globulin genes. Schwartz DA, et al. **Mol Cell Endocrinol** 1996 Jul 1;120(2):153–9

Glucocorticoid regulation of a transcription factor that binds an initiator-like element in the murine thymidine kinase (Tk-1) promoter. Rhee K, et al. **Mol Endocrinol** 1996 Dec; 10(12):1536–48

Hepatic nuclear factor 3 is an accessory factor required for the stimulation of phosphoenolpyruvate carboxykinase gene transcription by glucocorticoids. Wang JC, et al. **Mol Endocrinol** 1996 Jul;10(7):794–800

Feedback control of glucocorticoid production is established during fetal development. Reichardt HM, et al. **Mol Med** 1996 Nov;2(6):735–44

Effects of bacterial endotoxin on the glucocorticoid feedback regulation of adrenocortical response to stress. Weidenfeld J, et al. **Neuroimmunomodulation** 1996 Nov–Dec;3(6):352–7

Cushing's disease preceded by generalized glucocorticoid resistance: clinical consequences of a novel, dominant-negative glucocorticoid receptor mutation. Karl M, et al. **Proc Assoc Am Physicians** 1996 Jul;108(4):296–307

Multiple liver-enriched trans-acting factors interact with the glucocorticoid- (GRU) and cAMP-(CRU) responsive units within the h-IGFBP-1 promoter. Neau E, et al. **Prog Growth Factor Res** 1995;6(2–4):103–17

A novel DNA/protein complex interacts with the insulin-like growth factor binding protein-1 (IGFBP-1) insulin response sequence and is required for maximal effects of insulin and glucocorticoids on promoter function. Unterman T, et al. **Prog Growth Factor Res** 1995; 6(2–4):119–29 (26 ref.)

Stress and glucocorticoid [letter; comment] Yehuda R. **Science** 1997 Mar 14;275(5306):1662–3. Comment on: Science 1996 Aug 9;273(5276):749–50.

Effects of perturbations of the hypothalamic-pituitary-adrenal axis on the acute phase response: altered C/EBP and acute phase response gene expression in lipopolysaccharide-treated rats. Eastman HB, et al. **Shock** 1996 Oct;6(4):286–92

Glucocorticoid regulation of hepatic TNF production following cecal ligation and puncture sepsis. Zawacki JK, et al. **Shock** 1997 Aug;8(2):141–5

[Hormones and adipocyte development] Ailhaud G. **Ann Endocrinol (Paris)** 1997;58(2):129–31 (20 ref.) (Eng. Abstr.) **(Fre)**

[The mechanism of the effect of insulin on the interhormonal relations of androgens and glucocorticoids in the body] Pavlovs'kyĭ MP, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):100–4 (Eng. Abstr.) **(Ukr)**

PHARMACOLOGY

Histochemical, immunohistochemical and ultrastructural studies on the action of glucocorticoids on epidermal Langerhans cells (ELC) of murine skin. Bernateck M, et al. **Acta Histochem** 1996 Jan;98(1):101–6

Mitogenic response and steroid sensitivity in MS lymphocytes. Wei T, et al. **Acta Neurol Scand** 1997 Jul; 96(1):28–33

Effect of low-dose glucocorticoid treatment on dentin formation and dentinal caries in rats. Huumonen S, et al. **Acta Odontol Scand** 1996 Oct;54(5):282–6

Interaction between insulin-like growth factor I, growth hormone, parathyroid hormone, 1 alpha,25-dihydroxyvitamin D3 and steroids on epiphyseal chondrocytes [see comments] Klaus G, et al. **Acta Paediatr Suppl** 1996 Oct;417:69–71 (28 ref.). Comment in: Acta Paediatr Suppl 1996 Oct;417 :80.

Interaction between glucocorticoids and the somatotrophic axis [see comments] Tönshoff B, et al. **Acta Paediatr Suppl** 1996 Oct;417:72–5 (30 ref.). Comment in: Acta Paediatr Suppl 1996 Oct;417 :80.

Regulation of rat ALDH-3 by hepatic protein kinases and glucocorticoids. Prough RA, et al. **Adv Exp Med Biol** 1997; 414:29–36 (18 ref.)

Cytokine modulation by glucocorticoids: mechanisms and actions in cellular studies. Brattsand R, et al. **Aliment Pharmacol Ther** 1996;10 Suppl 2:81–90; discussion 91–2 (81 ref.)

Review article: older systemic and newer topical glucocorticosteroids and the gastrointestinal tract. Thiesen A, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):487–96 (111 ref.)

Closure of the human fetal ductus arteriosus [letter; comment] Mielke G, et al. **Am J Obstet Gynecol** 1997 Feb; 176(2):495–6. Comment on: Am J Obstet Gynecol 1996 Mar;174(3):879–83.

Glucocorticoid treatment decreases muscarinic receptor expression in canine airway smooth muscle. Emala CW, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L745–51

Alanyl-glutamine prevents muscle atrophy and glutamine synthetase induction by glucocorticoids. Hickson RC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1165–72

Glucocorticoids inhibit mitochondrial matrix acyl-CoA dehydrogenases and fatty acid beta-oxidation. Lettéron P, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1141–50

Glucocorticoids increase fatty-acid synthase mRNA stability in fetal rat lung. Xu ZX, et al. **Am J Physiol** 1997 May; 272(5 Pt 1):L860–4

Molecular mechanisms of immunosuppression and anti-inflammatory activities by glucocorticoids. Didonato JA, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S11–5 (35 ref.)

Glucocorticosteroids inhibit leukotriene production. Crocker IC, et al. **Ann Allergy Asthma Immunol** 1997 May; 78(5):497–505

Corticosteroid resistance and disease. DeRijk R, et al. **Ann Med** 1997 Feb;29(1):79–82 (27 ref.)

The brain is an important target of adrenal steroid actions. A comparison of synthetic and natural steroids. McEwen BS. **Ann N Y Acad Sci** 1997 Aug 14;823:201–13 (84 ref.)

Glucocorticoid-induced thymocyte death in the murine thymus: the effect at later stages. Ishii T, et al. **Arch Histol Cytol** 1997 Mar;60(1):65–78

Spontaneous motility and chemotaxis of neutrophils is influenced by glycocorticosteroid therapy. Zak-Nejmark T, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):77–80

Immunoregulatory genes and immunosuppression by glucocorticoids. Auphan N, et al. **Arch Toxicol Suppl** 1997; 19:87–95

Differential glucocorticoid responsiveness of hemodialysis patients' lymphocytes. Briggs WA, et al. **ASAIO J** 1997 Jan–Feb;43(1):31–4

Responsiveness of the glucocorticoid-suppressed pituitary-adrenocortical system of pigeons (Columba livia domestica) to stimulation with arginine vasopressin. Westerhof I, et al. **Avian Dis** 1996 Apr–Jun;40(2):312–20

The mitochondrion as a primary site of action of glucocorticoids: mitochondrial nucleotide sequences, showing similarity to hormone response elements, confer dexamethasone inducibility to chimaeric genes transfected in LATK- cells. Tsiriyotis C, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):349–54

Regulation of tyrosine aminotransferase gene expression by glucocorticoids in quiescent and regenerating liver. Baki L, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):745–53

Effects of glucocorticoid excess on the sensitivity of glucose transport and metabolism to insulin in rat skeletal muscle. Dimitriadis G, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):707–12

Effects of glucocorticoids on estrogen receptor messenger ribonucleic acid in the pregnant ovine myometrium in vivo and in vitro. Wu WX, et al. **Biol Reprod** 1996 Jan; 54(1):230–41

Glucocorticoids induce Kaposi's sarcoma cell proliferation through the regulation of transforming growth factor-beta. Cai J, et al. **Blood** 1997 Mar 1;89(5):1491–500

Two distinct pathways of interleukin-5 synthesis in allergen-specific human T-cell clones are suppressed by glucocorticoids. Mori A, et al. **Blood** 1997 Apr 15; 89(8):2891–900

Measurement of lipocortin 1 levels in murine peripheral blood leukocytes by flow cytometry: modulation by glucocorticoids and inflammation. Perretti M, et al. **Br J Pharmacol** 1996 Jun;118(3):605–10

Ontogency of the responses of human peripheral blood T cells to glucocorticoids. Kavelaars A, et al. **Brain Behav Immun** 1996 Sep;10(3):288–97

The memory-modulatory effects of glucocorticoids depend on an intact stria terminalis. Roozendaal B, et al. **Brain Res** 1996 Feb 19;709(2):243–50

Glucocorticoid upregulation of glutamate dehydrogenase gene expression in vitro in astrocytes. Hardin-Pouzet H, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):324–8

Glucocorticoid interactions with ethanol effects on depolarization-induced calcium influx in brain synaptosomes. Sze PY. **Brain Res Mol Brain Res** 1996 Apr; 37(1–2):231–8

Glucocorticoid regulation of vasopressin V1a receptors in rat forebrain. Watters JJ, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):276–84

Ethanol-induced hypothermia in rats is antagonized by dexamethasone. Carreño CF, et al. **Braz J Med Biol Res** 1997 Jan;30(1):69–72

A new fluorometric assay for determination of osteoblastic proliferation: effects of glucocorticoids and insulin-like growth factor-I. Jonsson KB, et al. **Calcif Tissue Int** 1997 Jan;60(1):30–6

Resistance to glucocorticoid-induced apoptosis in human T-cell acute lymphoblastic leukemia CEM-C1 cells is due to insufficient glucocorticoid receptor expression. Geley S, et al. **Cancer Res** 1996 Nov 1;56(21):5033–8

Regulation of involucrin gene expression by retinoic acid and glucocorticoids. Monzon RI, et al. **Cell Growth Differ** 1996 Dec;7(12):1751–9

Glucocorticoids inhibit oncostatin M-induced phospholipase A2 gene expression in human hepatoma cells. Haselmann J, et al. **Cytokine** 1997 Mar;9(3):199–205

Glucocorticoids, tumor necrosis factor-alpha, and epidermal growth factor regulation of pulmonary morphogenesis: a multivariate in vitro analysis of their related actions. Melnick M, et al. **Dev Dyn** 1996 Apr;205(4):365–78

In vivo protein-DNA interactions on a glucocorticoid response unit of a liver-specific gene: hormone-induced transcription factor binding to constitutively open chromatin. Zimmermann PL, et al. **DNA Cell Biol** 1997 Jun;16(6):713–23

Regulation of rat hepatic sulfotransferase gene expression by glucocorticoid hormones. Runge-Morris M, et al. **Drug Metab Dispos** 1996 Oct;24(10):1095–101

11 beta-Hydroxylase activity in glucocorticoid suppressible hyperaldosteronism: lessons for essential hypertension? Connell JM, et al. **Endocr Res** 1996 Nov;22(4):691–700

Molecular determinants of glucocorticoid receptor function and tissue sensitivity to glucocorticoids. Bamberger CM,

et al. **Endocr Rev** 1996 Jun;17(3):245–61 (216 ref.)

Glucocorticoids enhance oxidative stress-induced cell death in hippocampal neurons in vitro. Behl C, et al. **Endocrinology** 1997 Jan;138(1):101–6

Glucocorticoid-induced differentiation of fetal rat calvarial osteoblasts is mediated by bone morphogenetic protein-6. Boden SD, et al. **Endocrinology** 1997 Jul;138(7):2820–8

Glucocorticoid regulation of hepatic S-adenosylmethionine synthetase gene expression. Gil B, et al. **Endocrinology** 1997 Mar;138(3):1251–8

Involvement of glucocorticoid-induced factor(s) in the stimulation of growth hormone expression in the fetal rat pituitary gland in vitro. Nogami H, et al. **Endocrinology** 1997 May;138(5):1810–5

Tamoxifen attenuates glucocorticoid actions on bone formation in vitro. Sukhu B, et al. **Endocrinology** 1997 Aug; 138(8):3269–75

Regulation by calcitonin and glucocorticoids of calcitonin receptor gene expression in mouse osteoclasts [see comments] Wada S, et al. **Endocrinology** 1997 Feb; 138(2):521–9. Comment in: Endocrinology 1997 Feb;138(2):519–20.

Decrease in lipoprotein(a) after renal transplantation is related to the glucocorticoid dose. von Ahsen N, et al. **Eur J Clin Invest** 1996 Aug;26(8):668–75

Identification of a novel surface molecule, RM3/1, that contributes to the adhesion of glucocorticoid-induced human monocytes to endothelial cells. Wenzel I, et al. **Eur J Immunol** 1996 Nov;26(11):2758–63

Activation and proliferation of murine microglia are insensitive to glucocorticoids in Wallerian degeneration. Castaño A, et al. **Eur J Neurosci** 1996 Mar;8(3):581–8

Basolateral amygdala lesions block the memory-enhancing effect of glucocorticoid administration in the dorsal hippocampus of rats. Roozendaal B, et al. **Eur J Neurosci** 1997 Jan;9(1):76–83

Glucocorticoids potentiate effect of ACTH on cortisol secretion in isolated perfused guinea pig adrenal glands. Mokuda O, et al. **Exp Clin Endocrinol Diabetes** 1997; 105(2):119–21

Glucocorticoids increase the accumulation of reactive oxygen species and enhance adriamycin-induced toxicity in neuronal culture. McIntosh LJ, et al. **Exp Neurol** 1996 Oct;141(2):201–6

Plasma thyroid hormone levels and iodothyronine deiodinase activity following an acute glucocorticoid challenge in embryonic compared with posthatch chickens. Darras VM, et al. **Gen Comp Endocrinol** 1996 Nov;104(2):203–12

Topical glucocorticoids modulate the lesion interface after cerebral cortical stab wounds in adult rats. Li MS, et al. **Glia** 1996 Dec;18(4):306–18

Effect of glucocorticoids on the secretion of growth hormone in man [letter] Hollenstein U, et al. **Horm Metab Res** 1996 Feb;28(2):114–5

Lack of association between five polymorphisms in the human glucocorticoid receptor gene and glucocorticoid resistance. Koper JW, et al. **Hum Genet** 1997 May; 99(5):663–8

The use of the chorio-allantoic membrane of the chick embryo as test for anti-inflammatory activity. Beckers M, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S29–30

16 beta-Methyl-17 alpha,21-diesterified glucocorticoids as partial agonists of glucocorticoid in rat endotoxin-induced inflammation. Tsuji F, et al. **Inflamm Res** 1997 Jun; 46(6):193–8

Development of antigen-specific IgE after sensitisation with trimellitic anhydride in rats is attenuated by glucocorticoids and cyclosporin A. Pullerits T, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):279–86

Elevated expression of Bcl-2 and Bcl-x by intestinal intraepithelial lymphocytes: resistance to apoptosis by glucocorticoids and irradiation. Van Houten N, et al. **Int Immunol** 1997 Jul;9(7):945–53

The action of prostaglandin E2 and triamcinolone acetonide on the firing activity of lumbar nerve roots. Muramoto T, et al. **Int Orthop** 1997;21(3):172–5

Eosinophil apoptosis caused by theophylline, glucocorticoids, and macrolides after stimulation with IL-5. Adachi T, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S207–15

Specific deactivation of the mouse mammary tumor virus long terminal repeat promoter upon continuous hormone treatment. Boronat S, et al. **J Biol Chem** 1997 Aug 29; 272(35):21803–10

The glucocorticoid-responsive gene cascade. Activation of the rat arginase gene through induction of C/EBPbeta. Gotoh T, et al. **J Biol Chem** 1997 Feb 7;272(6):3694–8

Endoplasmic reticulum form of calreticulin modulates glucocorticoid-sensitive gene expression. Michalak M, et al. **J Biol Chem** 1996 Nov 15;271(46):29436–45

Transcriptional and posttranscriptional mechanisms of glucocorticoid-mediated repression of phosphoenolpyruvate carboxykinase gene expression in adipocytes. Franckhauser-Vogel S, et al. **J Cell Biochem** 1997 Sep 1;66(3):386–93

Tenascin-X expression in tumor cells and fibroblasts: glucocorticoids as negative regulators in fibroblasts. Sakai T, et al. **J Cell Sci** 1996 Aug;109 (Pt 8):2069–77

Clinical review 83: Mechanisms of glucocorticoid action in bone: implications to glucocorticoid-induced osteoporosis. Canalis E. **J Clin Endocrinol Metab** 1996 Oct;81(10):3441–7 (85 ref.)

Glucocorticoid regulation of leptin synthesis and secretion in humans: elevated plasma leptin levels in Cushing's syndrome. Masuzaki H, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2542–7

Cloning and expression of the glucocorticoid receptor from the squirrel monkey (Saimiri boliviensis boliviensis), a glucocorticoid-resistant primate. Reynolds PD, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):465–72

Glucocorticoids decrease tissue mast cell number by reducing the production of the c-kit ligand, stem cell factor, by resident cells: in vitro and in vivo evidence in murine systems. Finotto S, et al. **J Clin Invest** 1997 Apr 1; 99(7):1721–8

Suppression of lymphocyte interleukin-2 receptor expression by glucocorticoids, cyclosporine, or both. Briggs WA, et al. **J Clin Pharmacol** 1996 Oct;36(10):931–7

Rescue of thymocytes from glucocorticoid-induced cell death mediated by CD28/CTLA-4 costimulatory interactions with B7-1/B7-2. Wagner DH Jr, et al. **J Exp Med** 1996 Nov 1;184(5):1631–8

Regulation of IgE-dependent IL-4 generation by human basophils treated with glucocorticoids. Schroeder JT, et al. **J Immunol** 1997 Jun 1;158(11):5448–54

Regulation of sialoadhesin expression on rat macrophages. Induction by glucocorticoids and enhancement by IFN-beta, IFN-gamma, IL-4, and lipopolysaccharide. van den Berg TK, et al. **J Immunol** 1996 Oct 1;157(7):3130–8

The concentration of sodium, potassium pumps in chronic obstructive lung disease (COLD) patients: the impact of magnesium depletion and steroid treatment. Ravn HB, et al. **J Intern Med** 1997 Jan;241(1):23–9

Regulation of cytokine and cytokine receptor expression by glucocorticoids. Almawi WY, et al. **J Leukoc Biol** 1996 Nov;60(5):563–72 (166 ref.)

In vivo role of glucocorticoids in barotrauma vascular repair and fibrosis. Karim MA, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1111–22

Intestinal hydrolytic activity in young mink (Mustela vison) develops slowly postnatally and exhibits late sensitivity to glucocorticoids. Sangild PT, et al. **J Nutr** 1996 Sep; 126(9):2061–8

Glucocorticoids and behavioral effects of psychostimulants. II: cocaine intravenous self-administration and reinstatement depend on glucocorticoid levels. Deroche V, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1401–7

Glucocorticoids and behavioral effects of psychostimulants. I: locomotor response to cocaine depends on basal levels of glucocorticoids. Marinelli M, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1392–400

Functional dissociation between glucocorticoid-induced decrease in arachidonic acid release and inhibition of adrenocorticotropic hormone secretion in AtT-20 corticotrophs. Pompeo A, et al. **J Steroid Biochem Mol Biol** 1997 Jan;60(1-2):51–7

Glucocorticoids induce corticosteroid-binding globulin biosynthesis by immature mouse liver and kidney. Zhao XF, et al. **J Steroid Biochem Mol Biol** 1997 Feb; 60(3-4):163–9

Protein kinase C mediated anti-proliferative glucocorticoid-sphinganine synergism in cultured Pollard III prostate tumor cells. Sosnowski J, et al. **J Urol** 1997 Jul;158(1):269–74

Glucocorticoids induce apoptosis in acute myeloid leukemia cell lines with A t(8;21) chromosome translocation. Miyoshi H, et al. **Leuk Res** 1997 Jan;21(1):45–50

Transcriptional regulation of the human 'leukemia inhibitory factor' gene: modulation by glucocorticoids and estradiol. Bamberger AM, et al. **Mol Cell Endocrinol** 1997 Mar 14; 127(1):71–9

Androgen and glucocorticoid regulation of androgen receptor cDNA expression. Burnstein KL, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):177–86

Molecular cloning of TA16, a transcriptional repressor that may mediate glucocorticoid-induced growth arrest of leiomyosarcoma cells. Fan W, et al. **Mol Endocrinol** 1997 Aug;11(9):1342–52

Novel accessory factor-binding site required for glucocorticoid regulation of the gamma-fibrinogen subunit gene from Xenopus laevis. Woodward RN, et al. **Mol Endocrinol** 1997 May;11(5):563–76

Gene expression of the receptor for growth-hormone-releasing hormone is physiologically regulated by glucocorticoids and estrogen. Lam KS, et al. **Neuroendocrinology** 1996 Jun;63(6):475–80

Glucocorticoids inhibit stress-induced phosphorylation of CREB in corticotropin-releasing hormone neurons of the hypothalamic paraventricular nucleus. Légrádi G, et al. **Neuroendocrinology** 1997 Aug;66(2):86–97

Glucocorticoids inhibit the autoregulatory induction of interleukin-1 in monocytes after endotoxin stimulation. Páez Pereda M, et al. **Neuroimmunomodulation** 1996 Jul-Aug;3(4):227–32

Glucocorticoids and anabolic/androgenic steroids inhibit the synthesis of GABAergic steroids in rat cortex. Stürenburg HJ, et al. **Neuropsychobiology** 1997;35(3):143–6

Impairment of maze learning in rats following long-term glucocorticoid treatments. Endo Y, et al. **Neurosci Lett** 1996 Jan 26;203(3):199–202

Phenotypic development of neonatal rat chromaffin cells in response to adrenal growth factors and glucocorticoids: focus on pituitary adenylate cyclase activating polypeptide. Wolf N, et al. **Neurosci Lett** 1995 Nov 24;200(3):207–10

Long-term glucocorticoid treatments decrease local cerebral blood flow in the rat hippocampus, in association with histological damage. Endo Y, et al. **Neuroscience** 1997 Aug; 79(3):745–52

Tumour necrosis factor-alpha induces cyclo-oxygenase-2 gene expression in first trimester trophoblasts: suppression by glucocorticoids and NSAIDs. Imseis HM, et al. **Placenta** 1997 Sep;18(7):521–6

Modulatory effects of glucocorticoids and catecholamines on human interleukin-12 and interleukin-10 production: clinical implications. Elenkov IJ, et al. **Proc Assoc Am Physicians** 1996 Sep;108(5):374–81

Glucocorticoid receptor pathways are involved in the inhibition of astrocyte proliferation. Crossin KL, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2687–92

Protective effect of glutamine from glucocorticoid-induced muscle atrophy occurs without alterations in circulating insulin-like growth factor (IGF)-I and IGF-binding protein levels. Hickson RC, et al. **Proc Soc Exp Biol Med** 1997 Oct;216(1):65–71

Epidermal growth factor and glucocorticoid effects on blood prostaglandin E2 level in DENA-induced carcinogenesis. Gönül B, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):257–60

Glucocorticoids regulate both phorbol ester and calcium ionophore-induced endothelial prostacyclin synthesis. Rosenstock M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jan; 56(1):1–8

Identification of a glucocorticoid repressor domain in the rat beta 1-adrenergic receptor gene. Bahouth SW, et al. **Recept Signal Transduct** 1996;6(3-4):141–9

Occupancy and composition of proteins bound to the AP-1 sites in the glucocorticoid receptor and c-jun promoters after glucocorticoid treatment and in different cell types. Barrett TJ, et al. **Recept Signal Transduct** 1996; 6(3-4):179–93

11 beta-Hydroxysteroid dehydrogenases: key enzymes in determining tissue-specific glucocorticoid effects. Edwards CR, et al. **Steroids** 1996 Apr;61(4):263–9 (68 ref.)

Glucocorticoids, feto-placental 11 beta-hydroxysteroid dehydrogenase type 2, and the early life origins of adult disease. Seckl JR. **Steroids** 1997 Jan;62(1):89–94 (88 ref.)

Glucocorticoids modulate CD28 mediated pathways for interleukin 2 production in human T cells: evidence for posttranscriptional regulation. Fessler BJ, et al. **Transplantation** 1996 Oct 27;62(8):1113–8

[Prenatal corticotherapy and acceleration of fetal maturation. I. Experimental and pharmacological data] Lacaze-Masmonteil T. **Arch Pediatr** 1996 Nov;3(11):1111–7 (48 ref.) (Eng. Abstr.) **(Fre)**

[Cortisone and children] Pelet B. **Rev Med Suisse Romande** 1996 Dec;116(12):979–84 (22 ref.) **(Fre)**

[Mechanisms of action of glucocorticoids] Bamberger CM, et al. **Internist (Berl)** 1997 Apr;38(4):366–70 (41 ref.) **(Ger)**

[Enzyme adaptation and "vitauct" process] Martin H, et al. **Z Gerontol Geriatr** 1996 Jul-Aug;29(4):295–301 (Eng. Abstr.) **(Ger)**

[Human thrombocytes as a test system for the study of nongenomic effects of glucocorticoid hormones] Sergeev PV, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):285–7 **(Rus)**

[Receptor mechanisms of glucocorticoid and antiglucocorticoid effects] Golikov PP. **Vopr Med Khim** 1996 Jul-Sep;42(3):184–92 (76 ref.) (Eng. Abstr.) **(Rus)**

[Mechanisms of action of glucocorticoids. Application to the treatment of respiratory inflammation] Mullol J, et al. **Arch Bronconeumol** 1996 Dec;32(10):527–34 (83 ref.) **(Spa)**

PHYSIOLOGY

Glucocorticoid-induced apoptosis. Distelhorst CW. **Adv Pharmacol** 1997;41:247–70 (175 ref.)

Glucocorticoids and aging. Masoro EJ. **Aging (Milano)** 1995 Dec;7(6):407–13 (75 ref.)

Differential role of glucocorticoids in mediating endotoxin-induced changes in IGF-I and IGFBP-1. Li YH, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1990–7

The CNS site of glucocorticoid negative feedback during LPS- and psychological stress-induced fevers. Morrow LE, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R732–7

Premature expression of sucrase-isomaltase triggered by corticoid-dependent changes in polyamine metabolism. Nsi-Emvo E, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G54–9

Endogenous glucocorticoids inhibit neutrophil recruitment to inflammatory sites in cholestatic rats. Tjandra K, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G821–5

Glucocorticoid receptors: ATP and cell cycle dependence, phosphorylation, and hormone resistance. Bodwell JE, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S2–6 (35 ref.)

Molecular mechanisms of glucocorticoid resistance/hypersensitivity. Potential clinical implications. Chrousos GP, et al. **Am J Respir Crit Care Med** 1996 Aug; 154(2 Pt 2):S39–43; discussion S43–4 (28 ref.)

Basolateral amygdala lesions block glucocorticoid-induced modulation of memory for spatial learning. Roozendaal B, et al. **Behav Neurosci** 1996 Oct;110(5):1074–83

Regulation of thymocyte development by glucocorticoids.

Vacchio MS, et al. **Behring Inst Mitt** 1996 Oct;(97):24–31 (21 ref.)

Molecular mechanisms involved in the regulation of prostaglandin biosynthesis by glucocorticoids. Goppelt-Struebe M. **Biochem Pharmacol** 1997 May 15; 53(10):1389–95 (74 ref.)

Tissue-specific modulation of glucocorticoid action by the 11 beta-hydroxysteroid dehydrogenases. Chapman KE, et al. **Biochem Soc Trans** 1997 May;25(2):583–7 (47 ref.)

Do glucocorticoids contribute to the abnormalities in serotonin transporter expression and function seen in depression? An animal model. Slotkin TA, et al. **Biol Psychiatry** 1996 Oct 1;40(7):576–84

Serotonin transporter expression in rat brain regions and blood platelets: aging and glucocorticoid effects. Slotkin TA, et al. **Biol Psychiatry** 1997 Jan 15;41(2):172–83

A role for glucocorticoids in parturition in a marsupial, Macropus eugenii. Shaw G, et al. **Biol Reprod** 1996 Mar; 54(3):728–33

Modulation of hormone-dependent transcriptional activity of the glucocorticoid receptor by the tumor suppressor p53. Yu C, et al. **Cancer Lett** 1997 Jun 24;116(2):191–6

Glucocorticoids and Th-1, Th-2 type cytokines in rheumatoid arthritis, osteoarthritis, asthma, atopic dermatitis and AIDS. Norbiato G, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):315–23 (79 ref.)

Glucocorticoid resistance. de Castro M, et al. **Curr Ther Endocrinol Metab** 1997;6:188–9 (7 ref.)

MIF re-discovered: pituitary hormone and glucocorticoid-induced regulator of cytokine production. Bucala R. **Cytokine Growth Factor Rev** 1996 Jun;7(1):19–24 (31 ref.)

Glucocorticoids as counterregulatory hormones of leptin: toward an understanding of leptin resistance. Zakrzewska KE, et al. **Diabetes** 1997 Apr;46(4):717–9

Glucocorticoid-mediated generation of suppressor macrophages with high density Fc gamma RII during acute cold stress. Kizaki T, et al. **Endocrinology** 1996 Oct; 137(10):4260–7

Role of tumor necrosis factor-alpha and glucocorticoid on lipopolysaccharide (LPS)-induced apoptosis of thymocytes. Kato Y, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3–4):195–204

11beta-Hydroxysteroid dehydrogenase in the brain: a novel regulator of glucocorticoid action? Seckl JR. **Front Neuroendocrinol** 1997 Jan;18(1):49–99 (265 ref.)

Glucocorticoid hormone, aging brain and dementia. Angelucci L. **Funct Neurol** 1997 May-Aug;12(3–4):167–73

Obesity results as a consequence of glucocorticoid induced leptin resistance. Ur E, et al. **Horm Metab Res** 1996 Dec; 28(12):744–7 (38 ref.)

The glucocorticoid insensitivity syndrome. Lamberts SW. **Horm Res** 1996;45 Suppl 1:2–4 (10 ref.)

Regulation of chronic relapsing experimental allergic encephalomyelitis by endogenous and exogenous glucocorticoids. Bolton C, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):74–80

Contribution of a nuclear factor I binding site to the glucocorticoid regulation of the cytosolic aspartate aminotransferase gene promoter. Garlatti M, et al. **J Biol Chem** 1996 Dec 20;271(51):32629–34

Expression and glucocorticoid regulation of natriuretic peptide clearance receptor (NPR-C) mRNA in rat brain and choroid plexus. Herman JP, et al. **J Chem Neuroanat** 1996 Oct;11(4):257–65

Glucocorticoids do not regulate the expression of proteolytic genes in skeletal muscle from Cushing's syndrome patients. Rallière C, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):3161–4

Glucocorticoid and mineralocorticoid resistance. Komesaroff PA, et al. **J Endocrinol Invest** 1995 Jul-Aug;18(7):550–64 (121 ref.)

Thymus-derived glucocorticoids regulate antigen-specific positive selection. Vacchio MS, et al. **J Exp Med** 1997 Jun 2;185(11):2033–8

Glucocorticoids play an important role in mediating the enhanced metabolism of arginine and glutamine in enterocytes of postweaning pigs. Flynn NE, et al. **J Nutr** 1997 May;127(5):732–7

Role of glucocorticoids in the neuroregulation of growth hormone secretion. Dieguez C, et al. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:255–60 (26 ref.)

Possible involvement of glucocorticoids in the modulation of interleukin-1-induced cardiovascular responses in rats. Watanabe T, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):231–9

Intrauterine programming of hypertension by glucocorticoids. Langley-Evans SC. **Life Sci** 1997; 60(15):1213–21 (96 ref.)

Acquired immune deficiency syndrome: the glucocorticoid solution. Corley PA. **Med Hypotheses** 1996 Jul;47(1):49–54

Glucocorticoids stimulate prostaglandin H synthase type-2 (PGHS-2) in the fibroblast cells in human amnion cultures. Economopoulos P, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):141–7

Glucocorticoids and the hippocampus. Developmental interactions facilitating the expression of behavioral inhibition. Takahashi LK. **Mol Neurobiol** 1996 Dec; 13(3):213–26 (141 ref.)

Effect of cholinergic blockade on glucocorticoid regulation of NPY and catecholamines in the rat adrenal gland. Laborie C, et al. **Neuroendocrinology** 1997 Aug; 66(2):98–105

Glucocorticoids and the prevention of hypoxic-ischemic brain damage. Tuor UI. **Neurosci Biobehav Rev** 1997 Mar; 21(2):175–9 (33 ref.)

Repression of vasopressin gene expression by glucocorticoids in transgenic mice: evidence of a direct mechanism mediated by proximal 5' flanking sequence. Burke ZD, et al. **Neuroscience** 1997 Jun;78(4):1177–85

Stress, glucocorticoids, and mesencephalic dopaminergic neurons: a pathophysiological chain determining vulnerability to psychostimulant abuse. Piazza PV, et al. **NIDA Res Monogr** 1996;163:277–99 (91 ref.)

Glucocorticoids and energy expenditure: relevance to the regulation of energy balance in man [editorial] Garrel DR. **Nutrition** 1997 May;13(5):482–3 (13 ref.)

Differences in binding of hepatic nuclear proteins from lean and obese rats to the 5'-upstream region of tyrosine aminotransferase. Dong H, et al. **Obes Res** 1997 May; 5(3):208–17

Genes mediating glucocorticoid effects and mechanisms of their regulation. Geley S, et al. **Rev Physiol Biochem Pharmacol** 1996;128:1–97 (554 ref.)

Glucocorticoids, feto-placental 11 beta-hydroxysteroid dehydrogenase type 2, and the early life origins of adult disease. Seckl JR. **Steroids** 1997 Jan;62(1):89–94 (88 ref.)

Molecular basis of glucocorticoid-resistant syndromes. Werner S, et al. **Steroids** 1996 Apr;61(4):216–21 (42 ref.)

[Hormones and apoptosis] Liu J, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):712–5 (18 ref.) **(Chi)**

[Glucocorticoid regulated gene in cells of the immune system. Mechanisms of immunomodulation] Fiegl M. **Wien Klin Wochenschr** 1996;108(2):48–50 **(Ger)**

[A glucocorticoid-mediated transcriptional induction system in higher plants] Aoyama T. **Tanpakushitsu Kakusan Koso** 1996 Dec;41(16):2559–63 (14 ref.) **(Jpn)**

[Drifting cascade-like slowly developing adaptation mechanism during action of extreme factors on the body] Shakhov VP. **Biull Eksp Biol Med** 1996 May;121(5):571–4 **(Rus)**

[Mechanisms of glucocorticoid regulation and regulatory regions of genes, controlled by glucocorticoids: description in the TRDD database] Merkulova TI, et al. **Mol Biol (Mosk)** 1997 Jul-Aug;31(4):714–25 **(Rus)**

SECRETION

TNF-alpha facilitates inflammation-induced glucocorticoid secretion in rats with biliary obstruction. Swain MG, et al. **J Hepatol** 1997 Feb;26(2):361–8

THERAPEUTIC USE

Cytokines and mechanisms of action of glucocorticoids and aminosalicylates in the treatment of ulcerative colitis and Crohn's disease. Zimmerman MJ, et al. **Aliment Pharmacol Ther** 1996;10 Suppl 2:93–8; discussion 99 (56 ref.)

The role of glucocorticoids in the management of asthma. Spahn JD, et al. **Allergy Asthma Proc** 1996 Nov-Dec; 17(6):341–50 (39 ref.)

Steroid-resistant asthma: evaluation and management. Nimmagadda SR, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):345–55; quiz 355–6 (76 ref.)

Addison disease in patients treated with glucocorticoid therapy. Cronin CC, et al. **Arch Intern Med** 1997 Feb 24; 157(4):456–8

Ultrastructural changes in the trabecular meshwork of human eyes treated with corticosteroids. Johnson D, et al. **Arch Ophthalmol** 1997 Mar;115(3):375–83

Glucocorticoids fail to enhance the effect of FK506 and methotrexate in prevention of graft-versus-host disease after DLA-nonidentical, unrelated marrow transplantation. Yu C, et al. **Bone Marrow Transplant** 1997 Jul;20(2):137–41

Pathogenesis of steroid-resistant asthma. Lane SJ. **Br J Hosp Med** 1997 Apr 16-May 6;57(8):394–8 (20 ref.)

Reduced bone mass and fat-free mass in women with multiple sclerosis: effects of ambulatory status and glucocorticoid Use. Formica CA, et al. **Calcif Tissue Int** 1997 Aug; 61(2):129–33

Keratitis associated with presumed polyendocrinopathy syndrome: treatment with fluorometholone and diclofenac sodium. Des Marchais B, et al. **Can J Ophthalmol** 1995 Dec;30(7):380–4

Bone mineral density in relation to glucocorticoid substitution therapy in adult patients with 21-hydroxylase deficiency. Jääskeläinen J, et al. **Clin Endocrinol (Oxf)** 1996 Dec; 45(6):707–13

The efficacy of inhaled disodium cromoglycate and glucocorticoids. Carlsen KH, et al. **Clin Exp Allergy** 1996 Jun;26 Suppl 4:8–17 (98 ref.)

Anti-inflammatory treatment in clinical practice: a summary. Larsson K, et al. **Clin Exp Allergy** 1996 Jun;26 Suppl 4:18–9 (8 ref.)

Achilles tendonitis: are corticosteroid injections useful or harmful? [see comments] Shrier I, et al. **Clin J Sport Med** 1996 Oct;6(4):245–50. Comment in: Clin J Sport Med 1996 Oct;6(4):218–9.

Relative sensitivity of Tc-99m WBC versus In-111 WBC in a patient with Crohn's disease on steroids. Lyons KP, et al. **Clin Nucl Med** 1997 Jun;22(6):359–62

Subchronic glucocorticoid pretreatment reversibly attenuates IL-beta induced fever in rats; IL-6 mRNA is elevated while IL-1 alpha and IL-1 beta mRNAs are suppressed, in the CNS. Chai Z, et al. **Cytokine** 1996 Mar;8(3):227–37

The use of systemic steroids in otolaryngology. Nadel DM. **Ear Nose Throat J** 1996 Aug;75(8):502–5, 509–10, 511–2 passim (57 ref.)

Non-classical 21-hydroxylase deficiency in infancy and childhood: the effect of time of initiation of therapy on puberty and final height. Weintrob N, et al. **Eur J Endocrinol** 1997 Feb;136(2):188–95

Analysis of cytokine profile in human colonic mucosal Fc epsilonRI-positive cells by single cell PCR: inhibition of IL-3 expression in steroid-treated IBD patients. Ligumsky M, et al. **FEBS Lett** 1997 Aug 25;413(3):436–40

A novel histological lesion in glucocorticoid-responsive chronic hepatitis. Pratt DS, et al. **Gastroenterology** 1997 Aug;113(2):664–8

Reversibly increased lymphocyte response to mitogens in a young man with isolated adrenocorticotropic hormone deficiency. Kimura M, et al. **Intern Med** 1997 Mar; 36(3):194–7

Successful glucocorticoid treatment for patients with abnormal autoimmunity on in vitro fertilization and embryo transfer. Ando T, et al. **J Assist Reprod Genet** 1996 Nov; 13(10):776–81

New insights into the pathogenesis and management of steroid-resistant asthma. Spahn JD, et al. **J Asthma** 1997; 34(3):177–94 (150 ref.)

Altered 11 beta-hydroxylase activity in glucocorticoid-suppressible hyperaldosteronism. Jamieson A, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2298–302

Impaired potassium-stimulated aldosterone production: a possible explanation for normokalemic glucocorticoid-remediable aldosteronism. Litchfield WR, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1507–10

Mutation of cytochrome P-45017 alpha gene (CYP17) in a Japanese patient previously reported as having glucocorticoid-responsive hyperaldosteronism: with a review of Japanese patients with mutations of CYP17. Miura K, et al. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3797–801 (36 ref.)

Acute glucocorticoid deficiency is associated with plasma elevations of interleukin-6: does the latter participate in the symptomatology of the steroid withdrawal syndrome and adrenal insufficiency? Papanicolaou DA, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2303–6

Glucocorticoid-remediable aldosteronism. Williams GH, et al. **J Endocrinol Invest** 1995 Jul-Aug;18(7):512–7 (24 ref.)

Perioperative steroids for secondary adrenal insufficiency. Blavin LR, et al. **J Fam Pract** 1997 Jun;44(6):532–3

Medical treatment for inflammatory bowel disease--refinements and new modalities [editorial] Löfberg R. **J Intern Med** 1997 Jan;241(1):1–4 (24 ref.)

P-glycoprotein expression in circulating blood leukocytes of patients with steroid-resistant asthma. Montano E, et al. **J Investig Allergol Clin Immunol** 1996 Jan-Feb;6(1):14–21

Glucocorticoid-sensitive hereditary inclusion body myositis. Naumann M, et al. **J Neurol** 1996 Feb;243(2):126–30

Glucocorticoid-induced long-term remission in primary cerebral lymphoma: case report and review of the literature. Pirotte B, et al. **J Neurooncol** 1997 Mar; 32(1):63–9

The role of glucocorticoids in the treatment of severe head injury. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):715–8 (19 ref.)

PDN-21 in premenopausal women with systemic lupus erythematosus treated with glucocorticoids. Navarro MA, et al. **J Rheumatol** 1995 Dec;22(12):2238–40

Orbital pseudotumors treated with systemic corticosteroids [letter; comment] Jordan DR. **Ophthalmology** 1996 Oct; 103(10):1519; discussion 1520. Comment on: Ophthalmology 1996 Mar;103(3):521–8.

Orbital pseudotumors treated with systemic corticosteroids [letter; comment] Wirostko BM, et al. **Ophthalmology** 1996 Oct;103(10):1519–20. Comment on: Ophthalmology 1996 Mar;103(3):521–8.

Beneficial effect of glucocorticoids on the course of haematogenously acquired Staphylococcus aureus nephritis. Verba V, et al. **Scand J Immunol** 1997 Mar; 45(3):282–6

Positron emission tomography with 11C-D-deprenyl in patients with rheumatoid arthritis. Evaluation of knee joint inflammation before and after intra-articular glucocorticoid treatment. Danfors T, et al. **Scand J Rheumatol** 1997; 26(1):43–8

Treatment of lupus nephritis. Austin HA, et al. **Semin Nephrol** 1996 Nov;16(6):527–35 (87 ref.)

Glucocorticoid use in patients with preterm premature rupture of the fetal membranes [published erratum appears in Semin Perinatol 1996 Dec;20(6):595] Imseis HM, et al. **Semin Perinatol** 1996 Oct;20(5):439–50 (98 ref.)

Endocrinology of melanoma. Neifeld JP. **Semin Surg Oncol** 1996 Nov-Dec;12(6):402–6 (37 ref.)

Glucocorticosteroids as immunosuppressive agents. Cohn LA. **Semin Vet Med Surg (Small Anim)** 1997 Aug; 12(3):150–6 (49 ref.)

Clinical aspects of glucocorticoid sensitivity. Lamberts SW, et al. **Steroids** 1996 Apr;61(4):157–60 (37 ref.)

Dentin formation after corticosteroid treatment. A clinical study and an experimental study on rats. Nässtrom K. **Swed Dent J Suppl** 1996;115:1–45

GLUCOCORTICOIDS

Lipocortin 1: glucocorticoids caught in the act? Smith SF. **Thorax** 1996 Oct;51(10):1057–9 (12 ref.)

A clinical phase I/II study of recombinant human interleukin–1 receptor in glucocorticoid–resistant graft–versus–host disease. McCarthy PL Jr, et al. **Transplantation** 1996 Sep 15;62(5):626–31

NF–kappa B: a pivotal role in asthma and a new target for therapy. Barnes PJ, et al. **Trends Pharmacol Sci** 1997 Feb; 18(2):46–50 (37 ref.)

Glucocorticoid therapy. Pharmacology, indications, and complications. Behrend EN, et al. **Vet Clin North Am Small Anim Pract** 1997 Mar; 27(2):187–213 (88 ref.)

[Role of glucocorticoids in the treatment of multiple myeloma] Juge–Morineau N, et al. **Ann Med Interne (Paris)** 1996;147(8):576–9 (27 ref.) (Eng. Abstr.) **(Fre)**

[Prenatal corticotherapy and acceleration of fetal maturation. II. Results of clinical applications] Lacaze–Masmonteil T. **Arch Pediatr** 1996 Nov;3(11):1119–28 (75 ref.) (Eng. Abstr.) **(Fre)**

[An attenuated corticoid for the treatment of eczema] **Hautarzt** 1994 Dec;45(12 Suppl):1–12 **(Ger)**

[Glucocorticoids in diseases of the gastrointestinal tract] Bär U. **Internist (Berl)** 1997 May;38(5):488–90 **(Ger)**

[Glucocorticoids in pneumology] Criée CP, et al. **Internist (Berl)** 1997 May;38(5):490–3 (10 ref.) **(Ger)**

TOXICITY

DNA fragmentation is not the primary event in glucocorticoid–induced thymocyte death in vivo. Nakamura M, et al. **Eur J Immunol** 1997 Apr; 27(4):999–1004

Glucocorticoids may enhance oxygen radical–mediated neurotoxicity. McIntosh LJ, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):873–82 (106 ref.)

Developmental expression and CORT–regulation of TGF–beta and EGF receptor mRNA during mouse palatal morphogenesis: correlation between CORT–induced cleft palate and TGF–beta 2 mRNA expression. Jaskoll T, et al. **Teratology** 1996 Jul;54(1):34–44

GLUCOCORTICOIDS, SYNTHETIC

see related
ANTI–INFLAMMATORY AGENTS, STEROIDAL
ANTI–INFLAMMATORY AGENTS, TOPICAL

ADMINISTRATION & DOSAGE

Successful treatment of pemphigus vulgaris with prednisolone and tranilast [letter] Miyamoto H, et al. **Acta Derm Venereol** 1997 Jan;77(1):87–8

Effect of glucocorticoids on ICP in patients with a cerebral tumour. Skjoeth J, et al. **Acta Neurol Scand** 1997 Sep; 96(3):167–70

Growth of asthmatic children is slower during than before treatment with inhaled glucocorticoids. Saha MT, et al. **Acta Paediatr** 1997 Feb;86(2):138–42

Dexamethasone suppression test: corticosteroid receptors regulation in mononuclear leukocytes of young and aged subjects. Zovato S, et al. **Aging (Milano)** 1996 Oct; 8(5):360–4

Colonic delivery of dexamethasone: a pharmacoscintigraphic evaluation. Kenyon CJ, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):205–13

Effect of ketoconazole plus low–dose prednisone on progression of chronic renal failure. Walser M, et al. **Am J Kidney Dis** 1997 Apr;29(4):503–13

Idiopathic thrombocytopenic purpura in pregnancy treated with pulsed high–dose oral dexamethasone. Byrne JD, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):468–9

Amnioinfusion for prevention of pulmonary hypoplasia in second–trimester rupture of membranes. Vergani P, et al. **Am J Perinatol** 1997 Jul;14(6):325–9

Exercise stimulates interleukin–6 secretion: inhibition by glucocorticoids and correlation with catecholamines. Papanicolaou DA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E601–5

Effects of inhaled and oral glucocorticoids on inflammatory indices in asthma and COPD. Keatings VM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):542–8

Leukotriene antagonist prevents exacerbation of asthma during reduction of high–dose inhaled corticosteroid. The Tokyo Joshi–Idai Asthma Research Group. Tamaoki J, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1235–40

Glucocorticoids prolong rat sciatic nerve blockade in vivo from bupivacaine microspheres. Castillo J, et al. **Anesthesiology** 1996 Nov;85(5):1157–66

Dilemmas of low dosage glucocorticoid treatment in rheumatoid arthritis: considerations of timing. Masi AT, et al. **Ann Rheum Dis** 1997 Jan;56(1):1–4

Dramatic response of postthymomectomy myasthenia gravis with multiple lung nodules to corticosteroids. Kodama K, et al. **Ann Thorac Surg** 1997 Aug;64(2):555–7

Synergistic immunosuppression caused by high–dose methylprednisolone and cardiopulmonary bypass. Mayumi H, et al. **Ann Thorac Surg** 1997 Jan;63(1):129–37

Pulse glucocorticoid therapy. The 'big shot' revisited [comment] Roujeau JC. **Arch Dermatol** 1996 Dec; 132(12):1499–502. Comment on: Arch Dermatol 1996 Dec;132(12):1435–9.

Innovations in topical therapy. Richter F, et al. **Baillieres Clin Gastroenterol** 1997 Mar;11(1):97–109 (82 ref.)

Subacute treatment of rats with dexamethasone reduces ICAM–1 levels on circulating monocytes. Tailor A, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):675–8

Advice on long–term corticosteroid treatment may be misleading [letter] Gibson GJ, et al. **BMJ** 1997 Jul 5; 315(7099):56–7

Corticosteroids and the prevention of adverse reactions to myelography. Ginsberg L, et al. **Br J Neurosurg** 1996 Jun; 10(3):285–7

Tissue–specific modification of selenium concentration by acute and chronic dexamethasone administration in mice. Watanabe C, et al. **Br J Nutr** 1997 Sep;78(3):501–9

Pulmonary delivery of beclomethasone liposome aerosol in volunteers. Tolerance and safety. Waldrep JC, et al. **Chest** 1997 Feb;111(2):316–23

Dose–ranging study of the clinical efficacy of twice–daily triamcinolone acetonide inhalation aerosol in moderately severe asthma. Welch MJ, et al. **Chest** 1997 Sep; 112(3):597–606

Optimal glucocorticoid replacement therapy [letter] Katz J, et al. **Clin Endocrinol (Oxf)** 1997 Aug;47(2):251

Steroid injection technique [letter; comment] Weber PC. **Clin Orthop** 1997 Jan;(334):383–4. Comment on: Clin Orthop 1995 Aug;(317):185–7.

The rheumatoid knee before and after arthrocentesis and prednisolone injection: evaluation by Gd–enhanced MRI. Leitch R, et al. **Clin Rheumatol** 1996 Jul;15(4):358–66

Treatment of renal allograft acute rejection with methylprednisolone: effect of fixed dose versus dose per body mass index. Douzdjian V, et al. **Clin Transplant** 1996 Jun;10(3):310–5

Preoperative application of glucocorticosteroids efficaciously reduces the primary immunological response in kidney transplantation. Fricke L, et al. **Clin Transplant** 1996 Oct; 10(5):432–6

The role of topical corticosteroids in the management of Acanthamoeba keratitis. Park DH, et al. **Cornea** 1997 May; 16(3):277–83

Local methylprednisolone inhibition of foreign body response to coated intracoronary stents. de Scheerder I, et al. **Coron Artery Dis** 1996 Feb;7(2):161–6

Pulse steroid therapy for children's severe alopecia areata? Kiesch N, et al. **Dermatology** 1997;194(4):395–7

The effect of oral prednisolone on visual evoked potential latencies in acute optic neuritis monitored in a prospective, randomized, controlled study. Trauzettel–Klosinski S, et al. **Doc Ophthalmol** 1995–96;91(2):165–79

Controlled–release budesonide in Crohn's disease. **Drug Ther Bull** 1997 Apr;35(4):30–1 (13 ref.)

Fluticasone propionate compared with budesonide: a double–blind trial in asthmatic children using powder devices at a dosage of 400 microg x day(–1). Hoekx JC, et al. **Eur Respir J** 1996 Nov;9(11):2263–72

Regression of remote capillary haemangioma after local intralesional injection of corticosteroids [letter] Zadok D, et al. **Eye** 1996;10 (Pt 6):759

Effect of low–dose oral and intravenous dexamethasone administration on growth hormone secretion in children. Pinto AC, et al. **Horm Res** 1997;48(1):5–10

Pulse dexamethasone therapy [letter; comment] Bagga A, et al. **Indian Pediatr** 1996 Jan;33(1):72–3. Comment on: Indian Pediatr 1995 Jul;32(7):787–93.

Topical tretinoin as an adjunctive therapy with intralesional triamcinolone acetonide for alopecia areata. Clinical experience in northern Saudi Arabia [letter] Kubeyinje EP, et al. **Int J Dermatol** 1997 Apr;36(4):320

The effect of alternate–day low dose prednisolone on bone age in children with steroid dependent nephrotic syndrome. Bircan Z, et al. **Int Urol Nephrol** 1997;29(3):357–61

Intravitreal sustained release corticosteroid–5–fluoruracil conjugate in the treatment of experimental proliferative vitreoretinopathy. Berger AS, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2318–25

Failure of colchicine to reduce inhaled triamcinolone dose in patients with asthma. Newman KB, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):176–8

Sustained local delivery of dexamethasone by a novel intravascular eluting stent to prevent restenosis in the porcine coronary injury model. Lincoff AM, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):808–16

Efficacy of injections of corticosteroids for subacromial impingement syndrome. Blair B, et al. **J Bone Joint Surg Am** 1996 Nov;78(11):1685–9

Local corticosteroid injection versus Cyriax–type physiotherapy for tennis elbow. Verhaar JA, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):128–32

Methylprednisolone and full–dose aprotinin reduce reperfusion injury after cardiopulmonary bypass. Diego RP, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):29–31

Efficacy of oral dexamethasone for outpatient croup. Slawson JG. **J Fam Pract** 1996 Nov;43(5):436

Enhanced acute ocular hypotensive response to timolol with dexamethasone treatment. Rom M, et al. **J Glaucoma** 1997 Apr;6(2):111–6

Prednisolone withdrawal therapy enhances the effect of human lymphoblastoid interferon in chronic hepatitis B. INTERPRED Trial Group. Krogsgaard K, et al. **J Hepatol** 1996 Dec;25(6):803–13

Comparison of the effects of oral versus intravenous methylprednisolone regimens on peripheral blood T lymphocyte adhesion molecule expression, T cell subsets distribution and TNF alpha concentrations in multiple sclerosis. Pitzalis C, et al. **J Neuroimmunol** 1997 Apr; 74(1–2):62–8

Sustained release intravitreal dexamethasone. Hainsworth DP, et al. **J Ocul Pharmacol Ther** 1996 Spring;12(1):57–63

Enhanced ocular hypotensive response to epinephrine in rabbits with prior dexamethasone treatment. Rom ME, et al. **J Ocul Pharmacol Ther** 1997 Aug;13(4):313–20

Dexamethasone in salbutamol–treated inpatients with acute bronchiolitis: a randomized, controlled trial [see comments] Klassen TP, et al. **J Pediatr** 1997 Feb;130(2):191–6. Comment in: J Pediatr 1997 Feb;130(2):170–2.

High–dose oral dexamethasone therapy in idiopathic thrombocytopenic purpura [letter; comment] Korones DN. **J Pediatr** 1996 Nov;129(5):772–3. Comment on: J Pediatr 1996 Feb;128(2):281–3.

Platelet and immune responses to oral cyclic dexamethasone therapy in childhood chronic immune thrombocytopenic purpura [see comments] Kühne T, et al. **J Pediatr** 1997 Jan;130(1):17–24. Comment in: J Pediatr 1997 Jan;130(1):1–2.

Megadose methylprednisolone therapy for Kasabach–Merritt syndrome [letter; comment] Ozsoylu S. **J Pediatr** 1996 Dec; 129(6):947–8. Comment on: J Pediatr 1996 Jan;128(1):141–6.

The functionality of the human vomeronasal organ (VNO): evidence for steroid receptors. Berliner DL, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):259–65

Treatment and disease effects on short–term growth and adult height in children and adolescents with 21–hydroxylase deficiency. Hauffa BP, et al. **Klin Padiatr** 1997 Mar–Apr; 209(2):71–7

Oral or intravenous methylprednisolone for acute relapses of MS? [comment] [published erratum appears in Lancet 1997 Jun 7;349(9066):1704] Barkhof F, et al. **Lancet** 1997 Mar 29;349(9056):893–4. Comment on: Lancet 1997 Mar 29;349(9056):902–6.

Randomised trial of oral and intravenous methylprednisolone in acute relapses of multiple sclerosis [see comments] Barnes D, et al. **Lancet** 1997 Mar 29;349(9056):902–6. Comment in: Lancet 1997 Mar 29;349(9056):893–4. Comment in: Lancet 1997 Jun 7;349(9066):1696; discussion 1697. Comment in: Lancet 1997 Jun 7;349(9066):1696–7. Comment in: Lancet 1997 Jun 7;349(9066):1697–8. Comment in: ACP J Club 1997 Sep–Oct;127(2):38.

Oral versus intravenous corticosteroids in acute relapses of multiple sclerosis [letter; comment] Reinhardt C, et al. **Lancet** 1997 Jun 7;349(9066):1697–8. Comment on: Lancet 1997 Mar 29;349(9056):902–6.

Response to treatment by multidrug regimens in the THELEP controlled clinical drug trials. Subcommittee on Clinical Trials of the Chemotherapy of Leprosy (THELEP) Scientific Working Group of the UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases. **Lepr Rev** 1996 Dec;67(4):260–79

High–dose pulsed dexamethasone for immune thrombocytopenia [letter; comment] Demiroğlu H, et al. **N Engl J Med** 1997 Aug 7;337(6):425–7. Comment on: N Engl J Med 1994 Jun 2;330(22):1560–4.

Adrenal insufficiency [letter; comment] Fabrega AJ, et al. **N Engl J Med** 1997 Apr 10;336(15):1105–6; discussion 1106–7. Comment on: N Engl J Med 1996 Oct 17;335(16):1206–12.

Intravenous glucocorticoids in adult acute severe asthma [see comments] Harper JP, et al. **N Z Med J** 1997 May 9; 110(1043):159–61 (26 ref.). Comment in: N Z Med J 1997 Jun 27;110(1046):238.

Effects of inhaled corticosteroids on bone. Bootsma GP, et al. **Neth J Med** 1997 Jun;50(6):254–60 (70 ref.)

The effects of inhaled glucocorticoids on bone mass and biochemical markers of bone homeostasis: a 1–year study of beclomethasone versus budesonide. Struijs A, et al. **Neth J Med** 1997 Jun;50(6):233–7

Pulsed high–dose dexamethasone is not effective in patients with multifocal motor neuropathy. Van den Berg LH, et al. **Neurology** 1997 Apr;48(4):1135

Combined peribulbar and retrobulbar block anesthesia and antibiotic–steroid injection: a simple method to prevent retrobulbar hemorrhage, globe perforation, or infection. Girard LJ, et al. **Ophthalmic Surg Lasers** 1997 Mar; 28(3):251–4

Progressive visual loss from giant cell arteritis despite high–dose intravenous methylprednisolone. Cornblath WT, et al. **Ophthalmology** 1997 May;104(5):854–8 (28 ref.)

Short–course, high–dose corticosteroid treatment in six children with late ARDS [letter] Martinot A, et al. **Pediatr Pulmonol** 1997 Apr;23(4):314–6

Early dexamethasone therapy in very low birth weight infants [letter; comment] Zecca E, et al. **Pediatrics** 1996 Oct;98(4 Pt 1):799–800. Comment on: Pediatrics 1995 Apr;95(4):584–90.

What is the optimal treatment for acute crystal–induced arthritis? [editorial; comment] Pawlotsky Y. **Rev Rhum Engl Ed** 1996 Apr;63(4):231–3. Comment on: Rev Rhum Engl Ed 1996 Apr;63(4):248–54.

Transdermal iontophoretic delivery of triamcinolone acetonide: a preliminary study in hairless rats. Shigeki S, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):177–81

Ultrasound–guided injection of ganglia with coricosteroids.

Breidahl WH, et al. **Skeletal Radiol** 1996 Oct;25(7):635–8

Asthma guidelines [letter; comment] Adu H. **Thorax** 1997 Jul;52(7):665; discussion 665–6. Comment on: Thorax 1997 Feb;52 Suppl 1:S2–8, S11–5, S20–1.

Steroids in exacerbations of asthma: tablets or inhalers? [editorial] Griffiths C. **Thorax** 1996 Nov;51(11):1071–2

Randomised double blind placebo controlled trial of prednisolone in children admitted to hospital with respiratory syncytial virus bronchiolitis [see comments] van Woensel JB, et al. **Thorax** 1997 Jul;52(7):634–7. Comment in: Thorax 1997 Jul;52(7):595–7.

Absence of significant hemodynamic changes in the fetus following maternal betamethasone administration. Cohlen BJ, et al. **Ultrasound Obstet Gynecol** 1996 Oct;8(4):252–5

[Effect of methimazole and dexamethasone on leucocyte glucocorticoid receptor, plasma ACTH, and cortisol levels in Graves' disease] Gao Y, et al.
Hua Hsi I Ko Ta Hsueh Hsueh Pao 1996 Mar;27(1):75–8 (Eng. Abstr.) **(Chi)**

[The most rapid steroid (letter)] Heebøll-Nielsen N.
Ugeskr Laeger 1996 Nov 25;158(48):6928 **(Dan)**

[Bolus of corticoids: side-effects and precautions of use] Bonnotte B, et al. **Presse Med** 1997 Jun 28;26(22):1070–3 (25 ref.) **(Fre)**

[Bronchopulmonary dysplasia. Retrospective analysis of various forms of treatment and development of a staged therapeutic plan] Bauer J, et al. **Klin Padiatr** 1996 Mar–Apr; 208(2):56–60 (Eng. Abstr.) **(Ger)**

[Effect of dexamethasone and spironolactone therapy on diuresis and creatine clearance in premature infants with a birth weight below 1,500 g] Sonntag J. **Klin Padiatr** 1996 Nov–Dec;208(6):319–22 (Eng. Abstr.) **(Ger)**

[Inhaled budesonide for chronic obstructive pulmonary disease] Weiner P, et al. **Harefuah** 1997 Jun 1;132(11):756–9, 823 (Eng. Abstr.) **(Heb)**

[Effect of long-term treatment with an inhaled corticosteroid on bronchial hyper-responsiveness and clinical asthma in asthmatic subjects] Ikuta N, et al. **Arerugi** 1996 Dec; 45(12):1231–6 (Eng. Abstr.) **(Jpn)**

[A case of antiphospholipid antibody syndrome successfully treated with prednisolone and low-dose aspirin, with subsequent normal pregnancy] Yamamoto M, et al.
Nihon Rinsho Meneki Gakkai Kaishi 1997 Feb;20(1):67–72 (Eng. Abstr.) **(Jpn)**

[A case of hormone-refractory prostate cancer responsive to low-dose prednisolone therapy] Enomoto Y, et al.
Nippon Hinyokika Gakkai Zasshi 1997 Jun;88(6):636–9 (Eng. Abstr.) **(Jpn)**

[Rapidly progressing BOOP in a patient with positive anti-Jo-1 antibody: response to corticosteroid pulse and immunosuppressant therapy] Ikuta N, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1996 Oct; 34(10):1156–62 (Eng. Abstr.) **(Jpn)**

[The initial experience of using Celeston in anesthesia and resuscitation practice] Malyshev VD, et al.
Anesteziol Reanimatol 1996 May–Jun;(3):46–8 **(Rus)**

[Effects of becotide and becodisk glucocorticoid drugs on bronchial reactivity in patients with bronchial asthma] Pol'her SA. **Klin Med (Mosk)** 1997;75(6):44–6 (Eng. Abstr.) **(Rus)**

[The effect of glucocorticoids on mineral metabolism in bronchial asthma patients] Emel'ianov AV, et al.
Ter Arkh 1995;67(12):31–3 (Eng. Abstr.) **(Rus)**

[The efficacy of inhaled glucocorticosteroids in different dosage regimens and in combination with theophylline preparations in bronchial asthma patients] Tsoi AN, et al.
Ter Arkh 1997;69(3):27–30 (Eng. Abstr.) **(Rus)**

[Experimental use of a cytostatic and a corticosteroid on a collagen implant in surgery for glaucoma] Batmanov IE, et al. **Vestn Oftalmol** 1996 Sep–Oct;112(4):14–16 (Eng. Abstr.) **(Rus)**

[Therapeutic effectiveness of local administration of corticosteroids in the treatment of orbital capillary hemangioma] Gerinec A, et al. **Cesk Slov Oftalmol** 1996 Nov;52(6):356–61 (Eng. Abstr.) **(Slo)**

[Bone mineral density in female patients with systemic lupus erythematosus treated with high glucocorticoid doses] Formiga F, et al. **Rev Clin Esp** 1996 Nov;196(11):747–50 (Eng. Abstr.) **(Spa)**

[Successful treatment of recurrent esophageal stricture. Steroids and dilatation resulted in permanent cure] Toth E, et al. **Lakartidningen** 1997 Aug 6;94(32–33):2751–3 **(Swe)**

ADVERSE EFFECTS

Degenerative tear of the tibialis anterior tendon after corticosteroid injection--augmentation with the extensor hallucis longus tendon, case report. Velan GJ, et al.
Acta Orthop Scand 1997 Jun;68(3):308–9

Growth of asthmatic children is slower during than before treatment with inhaled glucocorticoids. Saha MT, et al.
Acta Paediatr 1997 Feb;86(2):138–42

Comparison of three different oral corticosteroids in steroid-dependent asthma patients. Chanez P, et al.
Allergy 1996 Nov;51(11):850–1

Corticosteroid-associated complications in elderly Crohn's disease patients. Akerkar GA, et al. **Am J Gastroenterol** 1997 Mar;92(3):461–4

Evaluation of hypothalamic-pituitary-adrenal axis in premature infants treated with dexamethasone. Alkalay AL, et al. **Am J Perinatol** 1996 Nov;13(8):473–7

Corticosteroid-induced mania after single regional application at the celiac plexus [see comments] Fishman SM, et al. **Anesthesiology** 1996 Nov;85(5):1194–6. Comment in: Anesthesiology 1997 May;86(5):1212–3.

Calcium and vitamin D3 supplementation prevents bone loss in the spine secondary to low-dose corticosteroids in patients with rheumatoid arthritis. A randomized, double-blind, placebo-controlled trial [see comments] Buckley LM, et al. **Ann Intern Med** 1996 Dec 15; 125(12):961–8. Comment in: Ann Intern Med 1997 Jul 1;127(1):90.

Is addition of sodium fluoride to cyclical etidronate beneficial in the treatment of corticosteroid induced osteoporosis? Lems WF, et al. **Ann Rheum Dis** 1997 Jun;56(6):357–63

Acute necrotising myopathy in a critically ill patient [letter] Rodger I. **Aust N Z J Med** 1996 Aug;26(4):560

Bacillary angiomatosis in an HIV seronegative patient on systemic steroid therapy. Schwartz RA, et al.
Br J Dermatol 1996 Dec;135(6):982–7

DNA diploidy in AIDS-related and steroid-induced Kaposi's sarcoma [letter; comment] Simonart T, et al.
Br J Dermatol 1997 May;136(5):804. Comment on: Br J Dermatol 1995 Apr;132(4):548–50.

Dexamethasone-induced leucocytosis in pregnancy. Denison FC, et al. **Br J Obstet Gynaecol** 1997 Jul;104(7):851–3

Steroid-induced prepartum psychosis [letter; comment] Brockington IF, et al. **Br J Psychiatry** 1997 Jan;170:90. Comment on: Br J Psychiatry 1996 Oct;169(4):522.

Salmon calcitonin nasal spray in the prevention of corticosteroid-induced osteoporosis. Adachi JD, et al.
Br J Rheumatol 1997 Feb;36(2):255–9

Resistant depression associated with lupus erythematosus and steroid therapy [letter] Benazzi F. **Can J Psychiatry** 1997 Jun;42(5):530–1

Prednisone therapy is not associated with increased risk of herpetic infections in patients infected with human immunodeficiency virus. Keiser P, et al. **Clin Infect Dis** 1996 Jul;23(1):201–2

Total knee arthroplasty for corticosteroid associated avascular necrosis of the knee. Mont MA, et al.
Clin Orthop 1997 May;(338):124–30

Avascular necrosis of bone following an intensified chemotherapy regimen including high dose steroids. Thornton MJ, et al. **Clin Radiol** 1997 Aug;52(8):607–12

Cutaneous alternariosis: role of corticosteroid-induced cutaneous fragility. Machet L, et al. **Dermatology** 1996; 193(4):342–4 (17 ref.)

Glucocorticoid-induced ketoacidosis in gestational diabetes: sequela of the acute treatment of preterm labor. A case report. Bedalov A, et al. **Diabetes Care** 1997 Jun; 20(6):922–4

Nasal steroid sprays and septal perforations. Ferguson BJ.
Ear Nose Throat J 1997 Feb;76(2):75–6

Hypertrophic cardiomyopathy in preterm infants treated with dexamethasone. Miranda-Mallea J, et al. **Eur J Pediatr** 1997 May;156(5):394–6

Long-term oral corticosteroids and osteoporosis prevention in an ophthalmology clinic [letter] Hodgkins PR, et al.
Eye 1997;11 (Pt 1):126–7

Atypical presentation of colon perforation related to corticosteroid use. Sharma R, et al. **Geriatrics** 1997 May; 52(5):88–90

Increased intraocular pressure during treatment for chronic uveitis. BenEzra D, et al.
Graefes Arch Clin Exp Ophthalmol 1997 Apr;235(4):200–3

Attained adult height after childhood asthma: effect of glucocorticoid therapy. Silverstein MD, et al.
J Allergy Clin Immunol 1997 Apr;99(4):466–74

Atraumatic rupture of the gastrocnemius muscle after corticosteroid administration in a dog. Rewerts JM, et al.
J Am Vet Med Assoc 1997 Mar 1;210(5):655–7

Do corticosteroids influence the disease course or mortality of Guillain Barre syndrome? [letter; comment] Mehndiratta MM. **J Assoc Physicians India** 1996 Jun;44(6):431. Comment on: J Assoc Physicians India 1996 Jan;44(1):22–4.

Pituitary-adrenal suppression and recovery in preterm very low birth weight infants after dexamethasone treatment for bronchopulmonary dysplasia. Ng PC, et al.
J Clin Endocrinol Metab 1997 Aug;82(8):2429–32

Lysine-vasopressin in the evaluation of the hypothalamic-pituitary-adrenal axis in children with allergic rhinitis treated with intranasal beclomethasone dipropionate or oral prednisone. Kokron CM, et al.
J Investig Allergol Clin Immunol 1997 Jan–Feb;7(1):51–6

High-dose oral dexamethasone therapy in idiopathic thrombocytopenic purpura [letter; comment] Korones DN. **J Pediatr** 1996 Nov;129(5):772–3. Comment on: J Pediatr 1996 Feb;128(2):281–3.

Limited bone loss due to corticosteroids; a systematic review of prospective studies in rheumatoid arthritis and other diseases. Verhoeven AC, et al. **J Rheumatol** 1997 Aug; 24(8):1495–503

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Cartier A, et al. **JAMA** 1997 Jun 25;277(24):1929–30. Comment on: JAMA 1997 Mar 5;277(9):722–7.

Inhaled and nasal glucocorticoids and the risks of ocular hypertension or open-angle glaucoma [see comments] Garbe E, et al. **JAMA** 1997 Mar 5;277(9):722–7. Comment in: JAMA 1997 Jun 25;277(24):1929; discussion 1930. Comment in: JAMA 1997 Jun 25;277(24):1929–30. Comment in: JAMA 1997 Jun 25;277(24):1930.

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Macris N. **JAMA** 1997 Jun 25;277(24):1929; discussion 1930. Comment on: JAMA 1997 Mar 5;277(9):722–7.

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Murray MD. **JAMA** 1997 Jun 25;277(24):1930. Comment on: JAMA 1997 Mar 5;277(9):722–7.

Corticosteroid-induced central serous chorioretinopathy. Wakakura M, et al. **Jpn J Ophthalmol** 1997 May–Jun; 41(3):180–5

Response to treatment by multidrug regimens in the THELEP controlled clinical drug trials. Subcommittee on Clinical Trials of the Chemotherapy of Leprosy (THELEP) Scientific Working Group of the UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases. **Lepr Rev** 1996 Dec;67(4):260–79

Intermittent etidronate therapy to prevent corticosteroid-induced osteoporosis [see comments] Adachi JD, et al. **N Engl J Med** 1997 Aug 7;337(6):382–7 . Comment in: N Engl J Med 1997 Aug 7;337(6):420–1.

Adrenal insufficiency [letter; comment] Bromberg JS.
N Engl J Med 1997 Apr 10;336(15):1105; discussion 1106–7 . Comment on: N Engl J Med 1996 Oct 17;335(16):1206–12.

Preventing glucocorticoid-induced osteoporosis [editorial; comment] Reid IR. **N Engl J Med** 1997 Aug 7;337(6):420–1 . Comment on: N Engl J Med 1997 Aug 7;337(6):382–7.

Inhaled steroids in the treatment of asthma. Bielory L, et al. **N J Med** 1996 Mar;93(3):180–2

Hyperlipidemia in children: the role of uremia, steroids and cyclosporine therapy. Singh A, et al. **Nephron** 1996; 74(3):529–35

Central serous chorioretinopathy associated with inhaled or intranasal corticosteroids. Haimovici R, et al.
Ophthalmology 1997 Oct;104(10):1653–60

Effects of dexamethasone on sleep. Moser NJ, et al.
Pharmacol Toxicol 1996 Aug;79(2):100–2

Invasive pulmonary aspergillosis with cerebromeningeal involvement after short-term intravenous corticosteroid therapy in a patient with asthma. Monlun E, et al.
Respir Med 1997 Aug;91(7):435–7

Hypersensitivity to glucocorticoids: does it exist? Pizzuti P, et al. **Rev Rhum Engl Ed** 1996 Mar;63(3):223–6 (27 ref.)

Glucocorticoid-induced osteoporosis: prevention and treatment. Werth VP. **Rev Rhum Engl Ed** 1997 Jun 30;64(6 Suppl):84S–88S (44 ref.)

Intraocular dexamethasone produces a harmful effect on treatment of experimental Staphylococcus aureus endophthalmitis. Meredith TA, et al.
Trans Am Ophthalmol Soc 1996;94:241–52; discussion 252–7

[Glucocorticoid-induced hypertrophic cardiomyopathy in premature infants: apropos of 4 cases] Boeuf B, et al.
Arch Pediatr 1997 Feb;4(2):152–7 (18 ref.) (Eng. Abstr.) **(Fre)**

[Hypertrophic cardiomyopathy complicating a prolonged corticotherapy for hemorrhagic rectocolitis] Lhasbellaoui F, et al. **Arch Pediatr** 1997 Jan;4(1):48–51 (Eng. Abstr.) **(Fre)**

[Appearance of hepatitis C virus replication and increase of aminotransferase activity after corticoid treatment of presumed autoimmune hepatitis. 2 cases] Béchade D, et al. **Gastroenterol Clin Biol** 1996;20(8–9):696–9 (Eng. Abstr.) **(Fre)**

[Hepatic distomatosis of tumor form after prolonged treatment with corticoids] Gavinet MF, et al.
Gastroenterol Clin Biol 1997;21(3):219–22 (Eng. Abstr.) **(Fre)**

[Acute hepatitis caused by Solupred in a patient with Crohn disease (letter)] Gerolami R, et al.
Gastroenterol Clin Biol 1997;21(3):236–7 **(Fre)**

[Epidural lipomatosis: complication of long-term corticotherapy. Apropos of 2 cases] Dujardin L, et al.
Rev Med Interne 1996;17(7):563–7 (Eng. Abstr.) **(Fre)**

[Lipomatosis induced by corticosteroid therapy] Humblot S, et al. **Rev Med Interne** 1997;18(5):396–401 (25 ref.) (Eng. Abstr.) **(Fre)**

[Preventing adverse side-effects of glucocorticoid therapy] Schöfl C, et al. **Internist (Berl)** 1997 Apr;38(4):371–8; discussion 379 (32 ref.) **(Ger)**

[Steroid-induced myopathy in left-sided ulcerative colitis. Successful treatment and continued therapy with the topical steroid budesonide] Caesar I, et al. **Med Klin** 1997 Jun 15;92(6):358–62 (Eng. Abstr.) **(Ger)**

[Acute rhabdomyolysis in status asthmaticus] Eisenhuber E, et al. **Wien Klin Wochenschr** 1996;108(16):521–4 (Eng. Abstr.) **(Ger)**

ANALYSIS

Determination of dexamethasone in tears by capillary electrophoresis. Baeyens V, et al.
J Chromatogr B Biomed Appl 1997 Apr 25;692(1):222–6

Dexamethasone and flumethasone residues in milk of intramuscularly dosed cows. Reding J, et al.
J Vet Pharmacol Ther 1997 Jun;20(3):198–203

Dexamethasone phosphate stability and contamination of solutions stored in syringes. Lau DW, et al.
PDA J Pharm Sci Technol 1996 Jul–Aug;50(4):261–7

ANTAGONISTS & INHIBITORS

Actinomycin D blocks the reducing effect of dexamethasone on amphetamine and cocaine hypermotility in mice.

Capasso A, et al. **Gen Pharmacol** 1996 Jun;27(4):707–12

CHEMISTRY

Position 16 of the steroid nucleus modulates glucocorticoid-induced apoptosis at the transcriptional level in murine T-lymphocytes. Perrin-Wolff M, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1469–76

Compatibility of corticosteroids and antibiotics in combination. Mahlberg K, et al. **J Cataract Refract Surg** 1997 Jul–Aug;23(6):878–82

Particle size and drug interactions of injectable corticosteroids used in ophthalmic practice. Francis BA, et al. **Ophthalmology** 1996 Nov;103(11):1884–8

DIAGNOSTIC USE

Evidence for the low dose dexamethasone suppression test to screen for Cushing's syndrome--recommendations for a protocol for biochemistry laboratories. Wood PJ, et al. **Ann Clin Biochem** 1997 May;34 (Pt 3):222–9 (49 ref.)

The dexamethasone suppression test for diagnosing depression in stroke patients. Harvey SA, et al. **Ann Clin Psychiatry** 1996 Mar;8(1):35–9 (35 ref.)

The dexamethasone suppression test and glucocorticoid receptors in borderline personality disorder. Grossman R, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:459–64

TRH stimulation and dexamethasone suppression in borderline personality disorder. De la Fuente JM, et al. **Biol Psychiatry** 1996 Sep 1;40(5):412–8

Prolactin response to low-dose dexamethasone challenge in combat-exposed veterans with and without posttraumatic stress disorder and normal controls. Grossman R, et al. **Biol Psychiatry** 1996 Dec 1;40(11):1100–5

Depressive psychomotor disturbance, cortisol, and dexamethasone. Mitchell P, et al. **Biol Psychiatry** 1996 Nov 15;40(10):941–50

High leptin concentrations in serum of very obese children are further stimulated by dexamethasone. Kiess W, et al. **Horm Metab Res** 1996 Dec;28(12):708–10

Use of low- and high-dose dexamethasone tests for distinguishing pituitary-dependent from adrenal tumor hyperadrenocorticism in dogs. Feldman EC, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):772–5

New endoscopic treatment for chronic pancreatitis, using contrast media containing ulinastatin and prednisolone. Ohwada M, et al. **J Gastroenterol** 1997 Apr;32(2):216–21

Are blunted dexamethasone-induced growth hormone responses unique to depression? Thakore JH, et al. **Psychol Med** 1996 Sep;26(5):1053–9

[Day to day changes in SAA (serum amyloid A) values of healthy subjects and the effect of dexamethasone administration] Yamada T, et al. **Rinsho Byori** 1997 Jul; 45(7):696–8 (Eng. Abstr.) **(Jpn)**

ECONOMICS

Oral versus intravenous corticosteroids in acute relapses of multiple sclerosis [letter; comment] Tremlett H. **Lancet** 1997 Jun 7;349(9066):1696–7. Comment on: Lancet 1997 Mar 29;349(9056):902–6.

IMMUNOLOGY

Changes in leukocyte, granulocyte and lymphocyte counts following antenatal betamethasone administration to pregnant women. Kadanali S, et al. **Int J Gynaecol Obstet** 1997 Sep;58(3):269–74

METABOLISM

Glucocorticoid receptors and actions in the spinal cord of the Wobbler mouse, a model for neurodegenerative diseases. González Deniselle MC, et al. **J Steroid Biochem Mol Biol** 1997 Feb;60(3–4):205–13

PHARMACOKINETICS

A bioavailability comparison in rabbits after a single topical ocular application of prednisolone acetate formulated as a high-viscosity gel and as an aqueous suspension. Johansen S, et al. **Acta Ophthalmol Scand** 1996 Jun;74(3):253–8

An ocular bioavailability comparison in rabbits of prednisolone acetate after repeated topical applications formulated as a high-viscosity gel and as an aqueous suspension. Johansen S, et al. **Acta Ophthalmol Scand** 1996 Jun;74(3):259–64

Intravitreal concentrations of some drugs administered with microdialysis. Waga J, et al. **Acta Ophthalmol Scand** 1997 Feb;75(1):36–40

Pharmacokinetic and pharmacodynamic assessment of bioavailability for two prodrugs of methylprednisolone. Daley-Yates PT, et al. **Br J Clin Pharmacol** 1997 Jun; 43(6):593–601

A comparative population pharmacokinetic analysis for methylprednisolone following multiple dosing of two prodrugs in patients with acute asthma. Parker TJ, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):589–92

Lack of pharmacokinetic interaction after administration of lansoprazole or omeprazole with prednisone. Cavanaugh JH, et al. **J Clin Pharmacol** 1996 Nov;36(11):1064–71

A pharmacokinetic comparison of two oral liquid glucocorticoid formulations. Kamada AK, et al. **Pharmacotherapy** 1997 Mar–Apr;17(2):353–6

[Prednisolone pharmacokinetics and its effect on cortisol kinetics in the serum of practically healthy individuals] Chekalin AF, et al. **Biull Eksp Biol Med** 1996 Jul; 122(7):51–4 **(Rus)**

PHARMACOLOGY

Methylprednisolone shortens the effects of bupivacaine on sensory nerve fibers in vivo. Johansson A. **Acta Anaesthesiol Scand** 1996 May;40(5):595–99

Dexamethasone inhibits mucous glycoprotein secretion via a phospholipase A2-dependent mechanism in cultured chinchilla middle ear epithelial cells. Lin J, et al. **Acta Otolaryngol (Stockh)** 1997 May;117(3):406–13

Modulation of middle ear epithelial function by steroids: clinical relevance. Tan CT, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):284–8

Suppression of intestinal mucosal natural killer cells by corticosteroids. Van Ierssel AJ, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):347–53

Preterm lung function after retreatment with antenatal betamethasone in preterm lambs. Polk DH, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):308–15

Dexamethasone upregulates ANP C-receptor protein in human mesangial cells without affecting mRNA. Ardaillou N, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F440–6

Developmental changes of fetal rat lung Na-K-ATPase after maternal treatment with dexamethasone. Ingbar DH, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L665–72

Dexamethasone suppresses mucus production and MUC-2 and MUC-5AC gene expression by NCI-H292 cells. Kai H, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):L484–8

Change from beta- to alpha-adrenergic glycogenolysis induced by corticosteroids in female rat liver. Moriyama M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R153–60

Effects of dexamethasone on hepatic glucose production and fructose metabolism in healthy humans. Tounian P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E315–20

Corticosteroid Action and Resistance in Asthma. Proceedings of a meeting. Buckinghamshire, United Kingdom, October 1995. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S1–79

Molecular mechanisms of glucocorticoid resistance/hypersensitivity. Potential clinical implications. Chrousos GP, et al. **Am J Respir Crit Care Med** 1996 Aug; 154(2 Pt 2):S39–43; discussion S43–4 (28 ref.)

Molecular mechanisms of immunosuppression and anti-inflammatory activities by glucocorticoids. Didonato JA, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S11–5 (35 ref.)

Repetitive prenatal glucocorticoids improve lung function and decrease growth in preterm lambs. Ikegami M, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):178–84

Expression of IL-12 and IL-13 mRNA in asthma and their modulation in response to steroid therapy. Naseer T, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):845–51

Prenatal glucocorticoid and T4 effects on lung morphology in preterm lambs. Pinkerton KE, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):624–30

Modulation of matrix metalloprotease 13 (collagenase 3) gene expression in equine chondrocytes by interleukin 1 and corticosteroids. Caron JP, et al. **Am J Vet Res** 1996 Nov; 57(11):1631–4

The effects of different corticosteroids on the healing colon anastomosis and cecum in a rat model. Eubanks TR, et al. **Am Surg** 1997 Mar;63(3):266–9

The brain is an important target of adrenal steroid actions. A comparison of synthetic and natural steroids. McEwen BS. **Ann N Y Acad Sci** 1997 Aug 14;823:201–13 (84 ref.)

The influence of encortone on ultrastructural changes in the parotid cells of female white rats of Wistar race. Zarębska A, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995; 50:49–53

Effect of dexamethasone on IL-2 and IL-3 production by mononuclear cells in neonates and adults. Bessler H, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov; 75(3):F197–201

Phenotypic alterations of neuropeptide Y, vasoactive intestinal peptide and choline acetyltransferase in rat cultured chromaffin cells as effected by nerve growth factor and glucocorticoid. Morimoto M, et al. **Arch Histol Cytol** 1996 Aug;59(3):205–18

The role of glucocorticoids in endotoxin-mediated otitis media with effusion. Baggett HC, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):41–6

Effect of prednisolone on the systemic response and wound healing after colonic surgery. Schulze S, et al. **Arch Surg** 1997 Feb;132(2):129–35

The effect of dexamethasone on phosphatidylcholine species composition in fetal rat lungs. Stettner S, et al. **Arch Vet Pol** 1995;35(1–2):89–95

Glucocorticoids stimulate cholesteryl ester formation in human smooth muscle cells. Petrichenko IE, et al. **Arterioscler Thromb Vasc Biol** 1997 Jun;17(6):1143–51

Glucocorticoid regulation of in vitro astrocyte phagocytosis. Roldán A, et al. **Biocell** 1997 Apr;21(1):83–9

Non-genomic mechanisms of glucocorticoid inhibition of adrenocorticotropin secretion: possible involvement of GTP-binding protein. Iwasaki Y, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):295–9

Decreased C-MYC and BCL2 expression correlates with methylprednisolone-mediated inhibition of Raji lymphoma growth. Morris G, et al. **Biochem Mol Med** 1997 Apr; 60(2):108–15

Position 16 of the steroid nucleus modulates glucocorticoid-induced apoptosis at the transcriptional level in murine T-lymphocytes. Perrin-Wolff M, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1469–76

Glucocorticoid inhibition of cytokine-induced E-selectin promoter activation. Ray KP, et al. **Biochem Soc Trans** 1997 May;25(2):189S

Role of glucocorticoid on interleukin-6-induced cellular functions in the mouse macrophage cell line (Mm 1). Kanematsu M, et al. **Biochim Biophys Acta** 1997 Jun 27; 1357(2):192–200

Regulation of heme oxygenase-2 by glucocorticoids in neonatal rat brain: characterization of a functional glucocorticoid response element. Raju VS, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):89–104

Retinoid X receptor (RXR alpha) gene expression is regulated by fatty acids and dexamethasone in hepatic cells. Steineger HH, et al. **Biochimie** 1997 Feb–Mar; 79(2–3):107–10

Increased serum soluble CD8 or suppressor/cytotoxic antigen concentrations in depression: suppressive effects of glucocorticoids. Maes M, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1273–81

Viable bone formation in porous hydroxyapatite: marrow cell-derived in vitro bone on the surface of ceramics. Yoshikawa T, et al. **Biomed Mater Eng** 1997;7(1):49–58

Short-term effects of corticosteroids on trabecular bone remodeling in old ewes. Chavassieux P, et al. **Bone** 1997 May;20(5):451–5

Progesterone stimulates proliferation and differentiation of osteoprogenitor cells in bone cell populations derived from adult female but not from adult male rats. Ishida Y, et al. **Bone** 1997 Jan;20(1):17–25

Rapid nodule evaluation computer-aided image analysis procedure for bone nodule quantification. Nefussi JR, et al. **Bone** 1997 Jan;20(1):5–16

Activation of paracrine growth factors by heparan sulphate induced by glucocorticoid in A549 lung carcinoma cells. Yevdokimova N, et al. **Br J Cancer** 1997;76(3):281–9

Suppression of human monocyte tumour necrosis factor-alpha release by glucocorticoid therapy: relationship to systemic monocytopaenia and cortisol suppression. Steer JH, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):383–9

Bone mineral density in patients with atopic dermatitis. Aalto-Korte K, et al. **Br J Dermatol** 1997 Feb;136(2):172–5

Differential effects of angiostatic steroids and dexamethasone on angiogenesis and cytokine levels in rat sponge implants. Hori Y, et al. **Br J Pharmacol** 1996 Aug;118(7):1584–91

Release of granulocyte-macrophage colony stimulating factor by human cultured airway smooth muscle cells: suppression by dexamethasone. Saunders MA, et al. **Br J Pharmacol** 1997 Feb;120(4):545–6

Effect of intrahippocampal dexamethasone on the levels of amino acid transmitters and neuronal excitability. Abrahám I, et al. **Brain Res** 1996 Sep 9;733(1):56–63

Expression of mRNA coding for the serotonin transporter in aged vs. young rat brain: differential effects of glucocorticoids. Fumagalli F, et al. **Brain Res** 1996 May 6;719(1–2):225–8

Dexamethasone and forskolin synergistically increase [Met5]enkephalin accumulation in mixed brain cell cultures. McMillian MK, et al. **Brain Res** 1996 Aug 19; 730(1–2):67–74

Glucocorticoid induced the expression of mRNA and the secretion of lipocortin 1 in rat astrocytoma cells. Mizuno H, et al. **Brain Res** 1997 Jan 23;746(1–2):256–64

Programming of brainstem serotonin transporter development by prenatal glucocorticoids. Slotkin TA, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1–2):155–61

Dexamethasone represses phorbol ester-, forskolin-, and calcium-stimulated expression of a preproenkephalin A promoter-chloramphenicol acetyltransferase gene via a receptor-mediated mechanism. Crabb DW, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):103–8

Chemopreventive effects of myo-inositol and dexamethasone on benzo[a]pyrene and 4-(methylnitrosoamino)-1-(3-pyridyl)-1-butanone-induced pulmonary carcinogenesis in female A/J mice. Wattenberg LW, et al. **Cancer Res** 1996 Nov 15; 56(22):5132–5

Induction of the alkyltransferase (MGMT) gene by DNA damaging agents and the glucocorticoid dexamethasone and comparison with the response of base excision repair genes. Grombacher T, et al. **Carcinogenesis** 1996 Nov; 17(11):2329–36

Nuclear factor of activated T cells (NFAT) is a possible target for dexamethasone in thymocyte apoptosis. Wisniewska M, et al. **Cell Biol Int** 1997 Mar;21(3):127–32

In vitro production of antigen-specific T cells from unprimed mice: role of dexamethasone and anti-IL-10 antibodies. Dozmorov I, et al. **Cell Immunol** 1997 Jun 15;178(2):187–96

Short-term dexamethasone treatment modulates the expression of the murine TCR zeta gene locus. Ronchetti S, et al. **Cell Immunol** 1997 Jun 15;178(2):124–31

Control of proinsulin production by sense-anti-sense regulation in response to glucocorticoids. Taniguchi K, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S55–7

Glucocorticoid receptor regulates expression of L-selectin and CD11/CD18 on human neutrophils. Filep JG, et al. **Circulation** 1997 Jul 1;96(1):295–301

Regulation of bone sialoprotein and osteopontin mRNA expression by dexamethasone and 1,25-dihydroxyvitamin

D3 in rat bone organ cultures. Chen J, et al. **Connect Tissue Res** 1996;34(1):41–51

Arginine, glutamine, and dehydroepiandrosterone reverse the immunosuppressive effect of prednisone during gut-derived sepsis [see comments] Gennari R, et al. **Crit Care Med** 1997 Jul;25(7):1207–14. Comment in: Crit Care Med 1997 Jul;25(7):1110–1.

Suppression of dialysis patients' lymphocyte IL-2R expression by glucocorticoids and cyclosporine. Briggs WA, et al. **Cytokine** 1997 Aug;9(8):624–8

The combination of endotoxin and dexamethasone induces type II interleukin 1 receptor (IL-1r II) in monocytes: a comparison to interleukin 1 beta (IL-1 beta) and interleukin 1 receptor antagonist (IL-1ra). Brown EA, et al. **Cytokine** 1996 Nov;8(11):828–36

Differential regulation of pro-inflammatory cytokines during wound healing in normal and glucocorticoid-treated mice. Hübner G, et al. **Cytokine** 1996 Jul;8(7):548–56

Regulation of tissue inhibitor of metalloproteinases-3 gene expression by transforming growth factor-beta and dexamethasone in bovine and human articular chondrocytes. Su S, et al. **DNA Cell Biol** 1996 Dec; 15(12):1039–48

Studies on the mechanism of glucocorticoid-mediated repression from a negative glucocorticoid response element from the bovine prolactin gene [published erratum appears in DNA Cell Biol 1997 May;16(5):670] Subramaniam N, et al. **DNA Cell Biol** 1997 Feb;16(2):153–63

A negative regulatory region containing a glucocorticosteroid response element (nGRE) in the human interleukin-1beta gene. Zhang G, et al. **DNA Cell Biol** 1997 Feb;16(2):145–52

Triamcinolone acetonide. A review of its pharmacological properties and therapeutic efficacy in the management of allergic rhinitis. Jeal W, et al. **Drugs** 1997 Feb;53(2):257–80 (73 ref.)

Diverse effects of glucocorticoids on the hypothalamic pituitary axis in rat growth hormone secretion. Ohyama T, et al. **Endocr J** 1996 Oct;43 Suppl:S115–7

Glucocorticoid effects on the skeletal muscle differentiation program: analysis of clonal proliferation, morphological differentiation and the expression of muscle-specific and regulatory genes. Montano MM, et al. **Endocr Res** 1997 Feb–May;23(1–2):37–57

Differential regulation of the growth hormone receptor gene: effects of dexamethasone and estradiol. Bennett PA, et al. **Endocrinology** 1996 Sep;137(9):3891–6

Inhibition of fetal adrenal adrenocorticotropin receptor messenger ribonucleic acid expression by betamethasone administration to the baboon fetus in late gestation. Leavitt MG, et al. **Endocrinology** 1997 Jul;138(7):2705–12

Production of follistatin in porcine endothelial cells: differential regulation by bacterial compounds and the synthetic glucocorticoid RU 28362. Michel U, et al. **Endocrinology** 1996 Nov;137(11):4925–34

In vivo resistance to glucocorticoid-induced apoptosis in rat thymocytes with normal steroid receptor function in vitro. Oldenburg NB, et al. **Endocrinology** 1997 Feb;138(2):810–8

An antisense oligodeoxynucleotide to lipocortin 1 reverses the inhibitory actions of dexamethasone on the release of adrenocorticotropin from rat pituitary tissue in vitro. Taylor AD, et al. **Endocrinology** 1997 Jul;138(7):2909–18

Mechanism of skin tumorigenesis by contact sensitizers: the effect of the corticosteroid fluocinolone acetonide on inflammation and tumor induction by 2,4 dinitro-1-fluorobenzene in the skin of the TG.AC (v-Ha-ras) mouse. Albert RE, et al. **Environ Health Perspect** 1996 Oct;104(10):1062–8

Effects of prenatal treatment with betamethasone, L-carnitine, or betamethasone-L-carnitine combinations on the phosphatidylcholine content and composition of the foetal and maternal rat lung. Lohninger A, et al. **Eur J Clin Chem Clin Biochem** 1996 May;34(5):387–91

Comparison of the pharmacodynamic effects of deflazacort and prednisolone in healthy subjects. Babadjanova G, et al. **Eur J Clin Pharmacol** 1996;51(1):53–7

Effects of short-term exposure to high-dose inhaled corticosteroids on novel markers of bone metabolism. Grove A, et al. **Eur J Clin Pharmacol** 1996;50(4):275–7

Effects of acetysal, dexamethasone and their combination on drug metabolizing enzyme systems in rat liver microsomes. Tantcheva LP, et al. **Eur J Drug Metab Pharmacokinet** 1995 Oct–Dec;20(4):281–6

Effects of glucocorticoids and of growth hormone on serum leptin concentrations in man [see comments] Berneis K, et al. **Eur J Endocrinol** 1996 Dec;135(6):663–5. Comment in: Eur J Endocrinol 1996 Dec;135(6):649–50.

Effect of low dose continuous corticosteroid therapy in men with antisperm antibodies on spermatozoal quality and conception rate. Omu AE, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Nov;69(2):129–34

Ethanol alone or with dexamethasone alters the kinetics of choline acetyltransferase. Wattanathorn J, et al. **Eur J Pharmacol** 1996 Oct 10;313(1–2):69–72

Interactions of glucocorticoids and beta 2-agonists. Adcock IM, et al. **Eur Respir J** 1996 Jan;9(1):160–8 (82 ref.)

Molecular mechanisms of steroid action: a novel type of cross-talk between glucocorticoids and NF-kappa B transcription factors. van der Saag PT, et al. **Eur Respir J Suppl** 1996 Aug;22:146s–153s

Jun and JNK kinase are activated in thymocytes in response to VM26 and radiation but not glucocorticoids. Testolin L, et al. **Exp Cell Res** 1997 Feb 1;230(2):220–32

Dexamethasone inhibits trabecular cell retraction. O'Brien ET, et al. **Exp Eye Res** 1996 Jun;62(6):675–88

Neurotoxicity of soluble macrophage products in vitro—influence of dexamethasone. Flavin MP, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):462–70

The biochemical consequences of alpha2,6(N) sialyltransferase induction by dexamethasone on sialoglycoprotein expression in the rat H411e hepatoma cell line. Coughlan CM, et al. **FEBS Lett** 1997 Aug 18; 413(2):389–93

The interleukin 1beta-converting enzyme inhibitor CrmA prevents Apo1/Fas- but not glucocorticoid-induced poly(ADP-ribose) polymerase cleavage and apoptosis in lymphoblastic leukemia cells. Geley S, et al. **FEBS Lett** 1997 Jan 27;402(1):36–40

A glucocorticoid antagonist, mifepristone affects anti-Candida activity of murine neutrophils in the presence of prednisolone in vitro and experimental candidiasis of prednisolone-treated mice in vivo. Abe S, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):311–6

Effect of dexamethasone on ciprofibrate-induced cell proliferation and peroxisome proliferation. Rao MS, et al. **Fundam Appl Toxicol** 1997 Jan;35(1):78–83

Glucocorticoid modulation of muscarinic and beta-adrenergic receptors in guinea pig lung. Scherrer D, et al. **Fundam Clin Pharmacol** 1997;11(2):111–6

The hypothalamic-pituitary-adrenal axis of prairie voles (Microtus ochrogaster): evidence for target tissue glucocorticoid resistance. Taymans SE, et al. **Gen Comp Endocrinol** 1997 Apr;106(1):48–61

Ovarian and extraovarian sources of immunoreactive inhibin in the chicken: effects of dexamethasone. Vanmontfort D, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):333–43

Effect of prednisolone on IgE-dependent biphasic cutaneous reaction in BALB/c mice. Inagaki N, et al. **Gen Pharmacol** 1997 Jan;28(1):93–7

Early conjunctival changes following treatment with metipranolol and preservatives are not reversible with dexamethasone. Mietz H, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jul;235(7):452–9

Effect of corticosteroids on healing of the corneal endothelium in cats. Solomon A, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 May;235(5):325–9

Subcellular distribution of glucocorticoid receptor in cultured rat and human liver-derived cells and cell lines: influence of dexamethasone. Raddatz D, et al. **Hepatology** 1996 Oct;24(4):928–33

Dexamethasone induces an acute and sustained rise in circulating leptin levels in normal human subjects. Miell JP, et al. **Horm Metab Res** 1996 Dec;28(12):704–7

The in vivo regulation of liver and kidney glucose-6-phosphatase by dexamethasone. Voice MW, et al. **Horm Metab Res** 1997 Mar;29(3):97–100

Steroids inhibit uptake and/or processing but not presentation of antigen by airway dendritic cells. Holt PG, et al. **Immunology** 1997 May;91(1):145–50

Glucocorticoids enhance concanavalin A-induced mitogenic response through the inhibition of nitric oxide production. Ramírez F, et al. **Immunology** 1997 Jan;90(1):66–73

Glucocorticoid-resistance in peripheral-blood lymphocytes does not correlate with number of affinity of glucocorticoid-receptors in chronic renal failure patients. Hirano T, et al. **Immunopharmacology** 1997 Apr;36(1):57–67

Drug-induced reversion of progression phenotype is accompanied by reversion of AP-1 phenotype in JB6 cells. Lavrovsky V, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr; 32(4):234–7

Inhibition of lipopolysaccharide-induced transcription factor Sp1 binding by spectrally pure diphosphoryl lipid A from Rhodobacter sphaeroides, protein kinase inhibitor H-8, and dexamethasone. Jarvis BW, et al. **Infect Immun** 1997 May; 65(5):1640–3

Glucocorticosteroids inhibit degradation in bovine cartilage explants stimulated with concomitant plasminogen and interleukin-1 alpha. Augustine AJ, et al. **Inflamm Res** 1997 Feb;46(2):60–4

Dexamethasone suppressed gene expression and production of interleukin-10 by human peripheral blood mononuclear cells and monocytes. Fushimi T, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):13–8

Effects of cytokines and glucocorticoids on endogenous class II MHC antigen expression by activated rat CD4+ T cells. Mature CD4+ CD8- thymocytes are phenotypically heterogeneous on activation. Seddon B, et al. **Int Immunol** 1996 Aug;8(8):1185–93

Acute and prolonged administration of glucocorticoids (methylprednisolone) does not affect plasma leptin concentration in humans. Tataranni PA, et al. **Int J Obes Relat Metab Disord** 1997 Apr;21(4):327–30

Dexamethasone decreases phagocytosis by human trabecular meshwork cells in situ. Matsumoto Y, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1902–7

Prednisolone, platelet-activating factor receptor antagonist, or superoxide dismutase reduced leukocyte entrapment induced by interferon alpha in retinal microcirculation. Nishiwaki H, et al. **Invest Ophthalmol Vis Sci** 1997 Apr; 38(5):811–6

Effects of dexamethasone on sodium-potassium-chloride cotransport in trabecular meshwork cells. Putney LK, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1229–40

Topical corticosteroids reverse the antiviral effect of topical cidofovir in the Ad5-inoculated New Zealand rabbit ocular model. Romanowski EG, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):253–7

Effects of dexamethasone and anabolic agents on proliferation and protein synthesis and degradation in C2C12 myogenic cells. Desler MM, et al. **J Anim Sci** 1996 Jun;74(6):1265–73

Growth performance and enzyme development in weanling pigs injected with dexamethasone. Gómez S, et al. **J Anim Sci** 1997 Apr;75(4):993–1000

Invited editorial on "Antenatal betamethasone therapy augments nitric oxide-mediated relaxation of preterm ovine pulmonary veins". Fineman JR, et al. **J Appl Physiol** 1996 Feb;80(2):388–9

Eicosanoids and lipocortin-1 in BAL fluid in asthma: effects of smoking and inhaled glucocorticoids. Van Hal PT, et al. **J Appl Physiol** 1996 Aug;81(2):548–55

Antenatal betamethasone therapy augments nitric oxide-mediated relaxation of preterm ovine pulmonary veins. Zhou H, et al. **J Appl Physiol** 1996 Feb;80(2):390–6

The role of adrenocortical steroid hormones in the development of hearing. Freeman S, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):167–77

Glucocorticoids regulate inducible nitric oxide synthase by inhibiting tetrahydrobiopterin synthesis and L-arginine transport. Simmons WW, et al. **J Biol Chem** 1996 Sep 27; 271(39):23928–37

Demineralized bone matrix mediates differentiation of bone marrow stromal cells in vitro: effect of age of cell donor. Becerra J, et al. **J Bone Miner Res** 1996 Nov;11(11):1703–14

Progesterone and dexamethasone stimulate proliferation and differentiation of osteoprogenitors and progenitors for adipocytes and macrophages in cell populations derived from adult rat vertebrae. Ishida Y, et al. **J Bone Miner Res** 1996 Jul;11(7):921–30

Dexamethasone stimulates osteoclast-like cell formation by directly acting on hemopoietic blast cells and enhances osteoclast-like cell formation stimulated by parathyroid hormone and prostaglandin E2. Kaji H, et al. **J Bone Miner Res** 1997 May;12(5):734–41

Expression of bone matrix proteins during dexamethasone-induced mineralization of human bone marrow stromal cells. Cheng SL, et al. **J Cell Biochem** 1996 May;61(2):182–93

Dexamethasone alters rapidly actin polymerization dynamics in human endometrial cells: evidence for nongenomic actions involving cAMP turnover. Koukouritaki SB, et al. **J Cell Biochem** 1996 Aug;62(2):251–61

Dexamethasone induces rapid actin assembly in human endometrial cells without affecting its synthesis. Koukouritaki SB, et al. **J Cell Biochem** 1997 Jun 15; 65(4):492–500

Glucocorticoid-mediated repression of cytokine gene transcription in human arteritis-SCID chimeras. Brack A, et al. **J Clin Invest** 1997 Jun 15;99(12):2842–50

Direct glucocorticoid inhibition of insulin secretion. An in vitro study of dexamethasone effects in mouse islets. Lambillotte C, et al. **J Clin Invest** 1997 Feb 1;99(3):414–23

Lymphocyte responsiveness to glucocorticoids, cyclosporine, or both. Briggs WA, et al. **J Clin Pharmacol** 1996 Aug; 36(8):707–14

Cortisol pharmacodynamics after methylprednisolone administration in young and elderly males. Tornatore KM, et al. **J Clin Pharmacol** 1997 Apr;37(4):304–11

Correlation between impairment of glucocorticoid feedback and the size of the pituitary gland in dogs with pituitary-dependent hyperadrenocorticism. Kooistra HS, et al. **J Endocrinol** 1997 Mar;152(3):387–94

Pulsatile secretion of alpha-MSH and the differential effects of dexamethasone and haloperidol on the secretion of alpha-MSH and ACTH in dogs. Kooistra HS, et al. **J Endocrinol** 1997 Jan;152(1):113–21

Regulation of intestinal cholecystokinin gene expression by glucocorticoids. Ratineau C, et al. **J Endocrinol** 1996 Oct; 151(1):137–45

Effect of dexamethasone on insulin receptor mRNA levels, RNA stability and isotype RNA pattern in U-937 human promonocytic cells. Leal MA, et al. **J Endocrinol Invest** 1996 Sep;19(8):530–4

The influence of prolonged dexamethasone treatment of pregnant rats on the perinatal development of the adrenal gland of their offspring. Hristić M, et al. **J Exp Zool** 1997 Sep 1;279(1):54–61

Partial mediation of glucocorticoid antiproliferative effects by lipocortins. Almawi WY, et al. **J Immunol** 1996 Dec 15;157(12):5231–9

Glucocorticoids inhibit E-selectin expression by targeting NF-kappaB and not ATF/c-Jun. Brostjan C, et al. **J Immunol** 1997 Apr 15;158(8):3836–44

Glucocorticoids inhibit the cytokine-induced proliferation of mast cells, the high affinity IgE receptor-mediated expression of TNF-alpha, and the IL-10-induced expression of chymases. Eklund KK, et al. **J Immunol** 1997 May 1;158(9):4373–80

Expression and release of the monocyte lipopolysaccharide receptor antigen CD14 are suppressed by glucocorticoids in vivo and in vitro. Nockher WA, et al. **J Immunol** 1997 Feb 1;158(3):1345–52

Dexamethasone downregulates lysosomal secretion in mouse macrophages: involvement of signaling through protein kinase C. Gewert K, et al. **J Inflamm** 1995–96;47(3):115–25

Role of glucocorticoid in the upregulation of type I interleukin-1 receptor mRNA expression in hepatocytes

of endotoxin-administrated mice. Ito A, et al. **J Interferon Cytokine Res** 1997 Jul;17(7):413-7

Dexamethasone antagonizes IL-4 and IL-10-induced release of IL-1RA by monocytes but augments IL-4-, IL-10-, and TGF-beta-induced suppression of TNF-alpha release. Joyce DA, et al. **J Interferon Cytokine Res** 1996 Jul; 16(7):511-7

Multifunctional cytokine expression by human mast cells: regulation by T cell membrane contact and glucocorticoids. Krishnaswamy G, et al. **J Interferon Cytokine Res** 1997 Mar;17(3):167-76

Dexamethasone inhibits leukocyte emigration in rat mesenteric post-capillary venules: an intravital microscopy study. Tailor A, et al. **J Leukoc Biol** 1997 Sep;62(3):301-8

Effects of dexamethasone treatment on IL-1 receptor mRNA levels in vivo. Yu PW, et al. **J Leukoc Biol** 1997 Sep; 62(3):401-4

Regulation of expression of the [3H]-dofetilide binding site associated with the delayed rectifier K+ channel by dexamethasone in neonatal mouse ventricle. Duff HJ, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1959-65

Corticosteroid modulation of signal transduction in the CATH.a cell line. Bundey RA, et al. **J Neurochem** 1997 Jan;68(1):362-9

Down-regulation of 5-hydroxytryptamine7 receptors by dexamethasone in rat frontocortical astrocytes. Shimizu M, et al. **J Neurochem** 1997 Jun;68(6):2604-9

Dexamethasone regulates the expression of neuronal properties of a rat insulinoma cell line. Atouf F, et al. **J Neuroendocrinol** 1995 Dec;7(12):957-64

Neurotensin receptor down-regulation induced by dexamethasone and forskolin in rat hypothalamic cultures is mediated by endogenous neurotensin. Scarcériaux V, et al. **J Neuroendocrinol** 1996 Aug;8(8):587-93

Effects of neonatal dexamethasone treatment on hypothalamo-pituitary adrenal axis and immune system of the rat. Bakker JM, et al. **J Neuroimmunol** 1997 Apr; 74(1-2):69-76

Corticosteroid treatment of experimental autoimmune encephalomyelitis in the Lewis rat results in loss of V beta 8.2+ and myelin basic protein-reactive cells from the spinal cord, with increased total T-cell apoptosis but reduced apoptosis of V beta 8.2+ cells. McCombe PA, et al. **J Neuroimmunol** 1996 Nov;70(2):93-101

Stimulus-secretion coupling in porcine adrenal chromaffin cells: effect of dexamethasone. Fuller LZ, et al. **J Neurosci Res** 1997 Aug 15;49(4):416-24

Dexamethasone reduced clonidine-induced hypoactivity in mice. Capasso A, et al. **J Pharm Pharmacol** 1996 Jun; 48(6):615-8

Aging and glucocorticoids: effects on cell signaling mediated through adenylyl cyclase. Slotkin TA, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):478-91

Glucocorticoids regulate the expression of adenosine A1 but not A(2A) receptors in rat brain. Svenningsson P, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1094-101

Differential effects of betamethasone and dexamethasone fetal administration of parturition in sheep. Derks JB, et al. **J Soc Gynecol Investig** 1996 Nov-Dec;3(6):336-41

Glucocorticoid/oxysterol-induced DNA lysis in human leukemic cells. Johnson BH, et al. **J Steroid Biochem Mol Biol** 1997 Apr;61(1-2):35-45

Coordinate expression of beta-galactoside alpha 2,6-sialyltransferase mRNA and enzyme activity in suckling rat jejunum cultured in different media: transcriptional induction by dexamethasone. Kolínská J, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):289-97

Effects of dexamethasone on (Na+ + K+)-ATPase and other parameters related to transepithelial Na+ transport by amphibian renal distal cells (A6) in culture. Lyoussi B, et al. **J Steroid Biochem Mol Biol** 1996 Nov; 59(3-4):333-8

Effects of steroid on diaphragmatic functions in rabbits. Tong M, et al. **J Tongji Med Univ** 1996;16(2):121-5

Congenital adrenal hyperplasia and adult sexual behavior [letter; comment] Johnson CJ. **JAMA** 1997 Aug 20; 278(7):549. Comment on: JAMA 1997 Apr 2;277(13):1077-9.

Insulin-like growth factor-I but not growth hormone attenuates dexamethasone-induced catabolism in parenterally fed rats. Lo HC, et al. **JPEN J Parenter Enteral Nutr** 1996 May-Jun;20(3):171-7

Regulation of selenoprotein P mRNA expression in comparison with metallothionein and osteonectin mRNAs following cadmium and dexamethasone administration. Fujii M, et al. **Kobe J Med Sci** 1997 Feb;43(1):13-23

Effects of triamcinolone on brain and cerebrospinal fluid apolipoprotein E levels in rats. Chiba H, et al. **Life Sci** 1997;60(20):1757-61

Estrogens and glucocorticoids induce the expression of c-erbB2/NEU receptor in Ishikawa human endometrial cells. Markogiannakis E, et al. **Life Sci** 1997;61(11):1083-95

Cytokine induction of cytosolic phospholipase A2 and cyclooxygenase-2 mRNA is suppressed by glucocorticoids in human epithelial cells. Newton R, et al. **Life Sci** 1997; 60(1):67-78

Lymphocyte subset responses to exercise and glucocorticoid suppression in healthy men. Singh A, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):822-8

Effect of glucocorticoid receptor antagonist RU 38486 on acute glucocorticoid-induced insulin resistance in rat adipocytes. Ishizuka T, et al. **Metabolism** 1997 Sep; 46(9):997-1002

Apoptosis of intestinal intraepithelial lymphocytes induced by exogenous and endogenous glucocorticoids. Murosaki S, et al. **Microbiol Immunol** 1997;41(2):139-48

Effects of dexamethasone on the contractile function of reperfused skeletal muscle. Chen LE, et al. **Microsurgery** 1996;17(6):313-20

Resistance of transformed mouse keratinocytes to growth inhibition by glucocorticoids. Spiegelman VS, et al. **Mol Carcinog** 1997 Sep;20(1):99-107

Glucocorticoid repression of gonadotropin-releasing hormone gene expression and secretion in morphologically distinct subpopulations of GT1-7 cells. Attardi B, et al. **Mol Cell Endocrinol** 1997 Aug 8;131(2):241-55

Transcription of the vasoactive intestinal peptide gene in response to glucocorticoids: differential regulation of alternative transcripts is modulated by a labile protein in rat anterior pituitary. Chew LJ, et al. **Mol Cell Endocrinol** 1997 Jun 20;130(1-2):83-91

Glucocorticoids use a positive liver element to repress fibrate-induced adipose transcription of the phosphoenolpyruvate carboxykinase gene. Franckhauser-Vogel S, et al. **Mol Cell Endocrinol** 1997 Mar 28;127(2):171-7

Localization of a negative glucocorticoid response element of the human corticotropin releasing hormone gene. Malkoski SP, et al. **Mol Cell Endocrinol** 1997 Mar 28; 127(2):189-99

Tonic suppression of adrenal AP-1 activity by glucocorticoids. Smith M, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):151-8

Repression of glucocorticoid receptor transactivation and DNA binding of a glucocorticoid response element within the serum/glucocorticoid-inducible protein kinase (sgk) gene promoter by the p53 tumor suppressor protein. Maiyar AC, et al. **Mol Endocrinol** 1997 Mar;11(3):312-29

Glucocorticoid inhibition of fibroblast proliferation and regulation of the cyclin kinase inhibitor p21Cip1. Ramalingam A, et al. **Mol Endocrinol** 1997 May; 11(5):577-86

Dexamethasone stimulation of rat insulin-like growth factor binding protein-1 promoter activity involves multiple cis-elements. Suh DS, et al. **Mol Endocrinol** 1996 Oct; 10(10):1227-37

Synthetic glucocorticoids that dissociate transactivation and AP-1 transrepression exhibit antiinflammatory activity in vivo. Vayssière BM, et al. **Mol Endocrinol** 1997 Aug; 11(9):1245-55

Glucocorticoid receptor-independent transcriptional induction of cytochrome P450 3A1 by metyrapone and its potentiation by glucocorticoid. Wright MC, et al. **Mol Pharmacol** 1996 Oct;50(4):856-63

Corticosteroid effects in skeletal muscle: gene induction/receptor autoregulation. McKay LI, et al. **Muscle Nerve** 1997 Oct;20(10):1318-20

Chronic dexamethasone administration decreases noradrenaline-stimulated, but not serotonin-stimulated, phosphoinositide metabolism in the rat brain. Takahashi M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):616-20

Induction of astrocyte argininosuccinate synthetase and argininosuccinate lyase by dibutyryl cyclic AMP and dexamethasone. Jackson MJ, et al. **Neurochem Res** 1996 Oct;21(10):1161-5

Immunocytochemical and molecular analysis of the effects of glucocorticoid treatment on the hypothalamic-somatotropic axis in the rat. Fife SK, et al. **Neuroendocrinology** 1996 Aug;64(2):131-8

Gene expression of hypothalamic somatostatin and growth hormone-releasing hormone in dexamethasone-treated rats. Lam KS, et al. **Neuroendocrinology** 1997 Jul;66(1):2-8

Dexamethasone up-regulates mRNA for Na+,K(+)-ATPase in some spinal cord neurones after cord transection. Gonzalez S, et al. **Neuroreport** 1996 Apr 10;7(5):1041-4

Glucocorticoids modulate the cellular disposition of lipocortin 1 in the rat brain in vivo and in vitro. Philip JG, et al. **Neuroreport** 1997 May 27;8(8):1871-6

Dexamethasone induces apoptosis of multiple myeloma cells in a JNK/SAP kinase independent mechanism. Chauhan D, et al. **Oncogene** 1997 Aug 14;15(7):837-43

The expulsion of Echinostoma trivolvis: suppressive effects of dexamethasone on goblet cell hyperplasia and worm rejection in C3H/HeN mice. Fujino T, et al. **Parasite** 1996 Sep;3(3):283-9

Effect of triamcinolone acetonide on the development of the pulmonary airways in the fetal rat. Rotschild A, et al. **Pediatr Pulmonol** 1997 Feb;23(2):76-86

Metabolic alterations in the fetal hepatic and umbilical circulations during glucocorticoid-induced parturition in sheep. Barbera A, et al. **Pediatr Res** 1997 Feb;41(2):242-8

Modulation of CRF-R1 mRNA in rat anterior pituitary by dexamethasone: correlation with POMC mRNA. Zhou Y, et al. **Peptides** 1996;17(3):435-41

Differential glucocorticoid responsiveness of dialysis patients' lymphocytes. Briggs WA, et al. **Perit Dial Int** 1996 Jul-Aug;16(4):406-11

Stimulatory vs. inhibitory effects of acute stress on plasma LH: differential effects of pretreatment with dexamethasone or the steroid receptor antagonist, RU 486. Briski KP. **Pharmacol Biochem Behav** 1996 Sep;55(1):19-26

Functional aspects of dexamethasone upregulated nicotinic acetylcholine receptors in C2C12 myotubes. Maestrone E, et al. **Pharmacol Res** 1995 Nov;32(5):305-8

Dexamethasone suppression of the effects of cocaine on adrenocortical secretion in Lewis and Fischer rats. Simar MR, et al. **Psychoneuroendocrinology** 1997 Apr; 22(3):141-53

Interference of dexamethasone with leukocyte blood volume and albumin movements in lungs from endotoxemic guinea-pigs. de Castro CM, et al. **Pulm Pharmacol** 1995 Dec;8(6):289-97

Effect of local methylprednisolone on pain in a nerve injury model. A pilot study. Johansson A, et al. **Reg Anesth** 1997 Jan-Feb;22(1):59-65

Neuropeptide Y receptor gene regulation in mouse adrenocortical Y-1 cells. Weng G, et al. **Regul Pept** 1996 May 7;63(1):53-6

Comparative studies concerning the effects of hydrocortisone and of some synthetic glucocorticoids upon the thymocytes of the Wistar rats. Giurgea R, et al. **Rom J Physiol** 1995 Jan-Dec;32(1-4):83-6

Steroids, surfactant and lung disease [editorial; comment] Postle AD, et al. **Thorax** 1996 Sep;51(9):880-1. Comment on: Thorax 1996 Sep;51(9):907-13.

Lead may affect glucocorticoid signal transduction in cultured hepatoma cells through inhibition of protein kinase C. Tonner LE, et al. **Toxicology** 1997 Apr 30;119(2):155-66

Methylprednisolone pharmacodynamics assessed by antilymphocyte action in kidney transplantation: clinical relevance and utility [letter] Girardin C, et al. **Transplantation** 1996 Nov 15;62(9):1377

Clinical relevance of glucocorticoid pharmacodynamics in kidney transplantation: difference between prednisolone and methylprednisolone [letter] Hirano T, et al. **Transplantation** 1997 Sep 15;64(5):792-3

[Effect of dexamethasone on the human interleukin-2 receptor alpha chain gene expression] Guan Z, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):89-94 (Eng. Abstr.) **(Chi)**

[Postnatal lactotropic hypoactivity in rats: possible implication of VIP, endogenous opioids, dopamine and glucocorticoids] El Feki A, et al. **Ann Endocrinol (Paris)** 1996;57(2):129-34 (Eng. Abstr.) **(Fre)**

[Mechanisms of action of glucocorticoids] Bamberger CM, et al. **Internist (Berl)** 1997 Apr;38(4):366-70 (41 ref.) **(Ger)**

[Glucocorticosteroids and ambroxol inhibit secretion of inflammatory cytokines in tracheobronchial epithelial cells: Possible role of the NF-kappa B transcription factor] Betz R. **Pneumologie** 1997 May;51(5):491-2 **(Ger)**

[Expression of neurotrophin and IL-1 beta mRNAs following spinal cord injury and the effects of methylprednisolone treatment] Hayashi M, et al. **Kaibogaku Zasshi** 1997 Jun; 72(3):209-13 (Eng. Abstr.) **(Jpn)**

[The effect of dexamethasone dose and cell population composition on in vitro production of tumor necrosis factor and interleukin-6 by mononuclear cells in peripheral blood of man] Kalashnikova EA, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):667-72 **(Rus)**

[Early stages in mechanisms of glucocorticoids action on human thrombocytes: effect of hydrocortisone on intracellular cAMP and Ca2+] Sergeev PV, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):663-5 **(Rus)**

[Effect of hydrocortisone on levels of amines in thymus] Sergeeva VE, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):677-9 **(Rus)**

[The effect of epsilon-aminocaproic acid and prednisolone on the activation of the complement system due to x-ray contrast agents in rats in vitro] Napolov IuK. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):62-4 (Eng. Abstr.) **(Rus)**

[New glucocorticoids are more selective. Current knowledge can eliminate serious adverse effects] Nilsson S, et al. **Lakartidningen** 1997 Jun 25;94(26-27):2465-71 (20 ref.) (Eng. Abstr.) **(Swe)**

THERAPEUTIC USE

Relationships of orbital computed tomographic findings and activity scores to the prognosis of corticosteroid therapy in patients with Graves' ophthalmopathy. Chang TC, et al. **Acta Ophthalmol Scand** 1997 Jun;75(3):301-4

Herpetic stromal disease: response to acyclovir/steroid therapy. O'Brien WJ, et al. **Acta Ophthalmol Scand** 1996 Jun;74(3):265-70

Randomized trial comparing intravenous immunoglobulin with methylprednisolone pulse therapy in acute idiopathic thrombocytopenic purpura. Danish I.T.P. Study Group. Rosthøj S, et al. **Acta Paediatr** 1996 Aug;85(8):910-5

Randomized study of the effect of antenatal dexamethasone on growth and development of premature children at the corrected age of 2 years. Salokorpi T, et al. **Acta Paediatr** 1997 Mar;86(3):294-8

High-dose dexamethasone therapy for a 14-month-old boy with refractory idiopathic thrombocytopenic purpura. Watanabe A, et al. **Acta Paediatr Jpn** 1997 Jun;39(3):368-70

Comparison of three different oral corticosteroids in steroid-dependent asthma patients. Chanez P, et al. **Allergy** 1996 Nov;51(11):850-1

Clinicopathologic correlates of prednisone treatment of human immunodeficiency virus-associated nephropathy. Briggs WA, et al. **Am J Kidney Dis** 1996 Oct;28(4):618-21

A case of a dialysis patient with sclerosing peritonitis

successfully treated with corticosteroid therapy alone. Mori Y, et al. **Am J Kidney Dis** 1997 Aug;30(2):275–8

Clinical response to prolonged corticosteroids in a patient with human immunodeficiency virus–associated nephropathy. Watterson MK, et al. **Am J Kidney Dis** 1997 Apr;29(4):624–6

Antenatal steroids and intraventricular hemorrhage after premature rupture of membranes at 24–28 weeks' gestation. Chen B, et al. **Am J Perinatol** 1997 Mar;14(3):171–6

Effects of maternal dexamethasone therapy on fetal lung development in the rhesus monkey. Engle MJ, et al. **Am J Perinatol** 1996 Oct;13(7):399–407

Response to dexamethasone in ventilated preterm infants: effect of radiographic subtype of chronic lung disease. Kothadia JM, et al. **Am J Perinatol** 1996 Aug;13(6):377–81

A retrospective analysis of the effect of antenatal steroid administration on the incidence of respiratory distress syndrome in preterm twin pregnancies. Turrentine MA, et al. **Am J Perinatol** 1996 Aug;13(6):351–4

Steroid resistance in asthma. Molecular mechanisms. Adcock IM. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S58–61 (30 ref.)

Mechanisms of action of glucocorticoids in asthma. Barnes PJ. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S21–6; discussion S26–7 (36 ref.)

Steroid receptor number. Individual variation and downregulation by treatment. Brönnegård M. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S28–32; discussion S32–3 (49 ref.)

Current management of asthma patients with corticosteroid resistance. Busse WW, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S70–2; discussion S72–3 (16 ref.)

Corticosteroid reversibility in COPD is related to features of asthma. Chanez P, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1529–34

Glucocorticoid-resistant asthma. T-lymphocyte defects. Corrigan CJ. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S53–5; discussion S55–7 (20 ref.)

The effect of treatment with oral corticosteroids on asthma symptoms and airway inflammation. Djukanović R, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):826–32

Effects of inhaled and oral glucocorticoids on inflammatory indices in asthma and COPD. Keatings VM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):542–8

Mononuclear cells in corticosteroid-resistant asthma. Lane SJ, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S49–51; discussion S52 (17 ref.)

Corticosteroid resistance in other disease states and tissues. Lane SJ, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S62–5 (15 ref.)

Induction of corticosteroid resistance in vitro. Leung DY, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S34–7; discussion S37–8 (32 ref.)

The epithelium as a target of glucocorticoid action in the treatment of asthma. Schwiebert LM, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S16–9; discussion S19–20 (35 ref.)

Systemic corticosteriod rapidly reverses bronchodilator subsensitivity induced by formoterol in asthmatic patients. Tan KS, et al. **Am J Respir Crit Care Med** 1997 Jul; 156(1):28–35

Corticosteroid-resistant asthma. Definitions. Woolcock AJ. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S45–8

Short-course intravenous prophylaxis for paclitaxel-related hypersensitivity reactions. Bookman MA, et al. **Ann Oncol** 1997 Jun;8(6):611–4

Rapid intravenous premedication with dexamethasone prevents hypersensitivity reactions to paclitaxel [letter] Gennari A, et al. **Ann Oncol** 1996 Nov;7(9):978–9

Curative treatment for pemphigus [letter; comment] Pasricha JS, et al. **Arch Dermatol** 1996 Dec;132(12):1518–9. Comment on: Arch Dermatol 1996 Feb;132(2):203–12.

Treatment of pemphigus vulgaris with brief, high-dose intravenous glucocorticoids [see comments] Werth VP. **Arch Dermatol** 1996 Dec;132(12):1435–9. Comment in: Arch Dermatol 1996 Dec;132(12):1499–502.

Dexamethasone and bacterial meningitis in Pakistan. Qazi SA, et al. **Arch Dis Child** 1996 Dec;75(6):482–8

High dose methylprednisolone in severe acute transverse myelopathy. Sébire G, et al. **Arch Dis Child** 1997 Feb; 76(2):167–8

The response of parotid hemangiomas to the use of systemic interferon alfa-2a or corticosteroids. Blei F, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):841–4

To 'dex' or not to 'dex'. A descriptive account of corticosteroid use in palliative medicine. Ralls JE. **Aust Fam Physician** 1996 May;25(5):713–5

The effects of antenatal steroid use in premature rupture of membranes. Tucker L, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):390–2

Safety of corticosteroids and immunosuppressive agents in ulcerative colitis. Connell WR, et al. **Baillieres Clin Gastroenterol** 1997 Mar;11(1):111–28 (124 ref.)

Management of the first presentation of severe acute colitis. Leiper K, et al. **Baillieres Clin Gastroenterol** 1997 Mar; 11(1):129–51 (131 ref.)

Comparison of physiotherapy, manipulation, and corticosteroid injection for treating shoulder complaints in general practice: randomised, single blind study. Winters JC, et al. **BMJ** 1997 May 3;314(7090):1320–5

The clinical problem of Bell's palsy: is treatment with steroids effective? Williamson IG, et al. **Br J Gen Pract** 1996 Dec; 46(413):743–7

Anterior segment recurrence of acute myelogenous leukemia: treatment with subconjunctival injections of methotrexate and triamcinolone acetonide. Katz SE, et al. **Can J Ophthalmol** 1997 Jun;32(4):265–7

Clinically unsuspected bilateral Aspergillus endophthalmitis. Myles WM, et al. **Can J Ophthalmol** 1997 Apr;32(3):182–4

Glucocorticoid remediable aldosteronism: a case report. Hsieh CJ, et al. **Chang Keng I Hsueh** 1997 Mar;20(1):52–7

Outcome in sarcoidosis. The relationship of relapse to corticosteroid therapy. Gottlieb JE, et al. **Chest** 1997 Mar; 111(3):623–31

Dexamethasone treatment does not ameliorate subglottic ischemic injury in rabbits. Kil HK, et al. **Chest** 1997 May; 111(5):1356–60

Steroid-responsive interstitial pneumonitis after fludarabine therapy [letter] Levin M, et al. **Chest** 1997 May; 111(5):1472–3

Using corticosteroids to treat tuberculous pleurisy [letter; comment] Manresa F, et al. **Chest** 1997 Jul;112(1):291–2. Comment on: Chest 1996 Aug;110(2):333–8.

Corticosteroids and the treatment of idiopathic pulmonary fibrosis. Past, present, and future. Mapel DW, et al. **Chest** 1996 Oct;110(4):1058–67 (67 ref.)

Systemic corticosteroids in COPD. An unresolved clinical dilemma [editorial] Niewoehner DE, et al. **Chest** 1996 Oct; 110(4):867–9

Effects of systemic corticosteroids on cutaneous histamine secretion and histamine-releasing factor in patients with chronic idiopathic urticaria. Paradis L, et al. **Clin Exp Allergy** 1996 Jul;26(7):815–20

Randomized trial of intravenous immunoglobulins versus prednisolone in Graves' ophthalmopathy. Kahaly G, et al. **Clin Exp Immunol** 1996 Nov;106(2):197–202

Association of methotrexate and corticosteroids in the treatment of patients with rheumatoid arthritis. Bologna C, et al. **Clin Exp Rheumatol** 1996 Jul–Aug;14(4):401–6

Juvenile onset of primary Sjögren's syndrome: report of 10 cases. Ostuni PA, et al. **Clin Exp Rheumatol** 1996 Nov–Dec; 14(6):689–93

How to manage patients on long-term oral corticosteroids: recommendations from available guidelines [editorial] Pal B. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):341–2 (8 ref.)

Systemic paradoxical response to antituberculous drugs: resolution with corticosteroid therapy. Rodríguez-Bano J, et al. **Clin Infect Dis** 1997 Mar;24(3):517–9

Complete remission of nephrotic syndrome after steroid-chlorambucil in a previous failed short-term steroidal treatment of a primary membranous nephropathy [letter] Ardiles LG, et al. **Clin Nephrol** 1996 Jun;45(6):423

Successful management of steroid-resistant nephrotic syndrome using ibuprofen. Low CL, et al. **Clin Nephrol** 1997 Jan;47(1):60–2

Influence of steroid injection on ligament healing in the rat. Campbell RB, et al. **Clin Orthop** 1996 Nov;(332):242–53

Clinical review of once-daily beclomethasone dipropionate for seasonal allergic rhinitis. Chervinsky P. **Clin Ther** 1996 Sep–Oct;18(5):790–6; discussion 789 (22 ref.)

Treatment of steroid-resistant and recurrent acute cardiac transplant rejection with a short course of antibody therapy. Cantarovich M, et al. **Clin Transplant** 1997 Aug; 11(4):316–21

Out-patient management of asthma & COPD. Cosentino AM. **Compr Ther** 1997 Jan;23(1):67–72

Avoiding the rush [editorial; comment] Deutschman CS. **Crit Care Med** 1997 Jul;25(7):1110–1. Comment on: Crit Care Med 1997 Jul;25(7):1207–14.

Inhibition of release of tumor necrosis factor-alpha from human vascular tissue and smooth muscle cells by glucocorticoids. Newman WH, et al. **Crit Care Med** 1997 Mar;25(3):519–22

Update on therapy for refractory dermatomyositis and polymyositis. Villalba L, et al. **Curr Opin Rheumatol** 1996 Nov;8(6):544–51 (61 ref.)

Pseudoxanthomatous lesions with membranocystic changes of collagen fibers in an SLE patient receiving long-term steroid treatment. Yasaka N, et al. **Dermatology** 1997; 194(2):162–5

Triamcinolone acetonide. A review of its pharmacological properties and therapeutic efficacy in the management of allergic rhinitis. Jeal W, et al. **Drugs** 1997 Feb;53(2):257–80 (73 ref.)

Longitudinal assessment of growth and bone mineral accretion in prematurely born infants treated for chronic lung disease with dexamethasone. Weiler HA, et al. **Early Hum Dev** 1997 Feb 20;47(3):271–86

Evaluation of some prophylactic therapies for the idiopathic headshaker syndrome. Mair TS, et al. **Equine Vet J Suppl** 1992 Feb;(11):10–2

Oral pH-modified release budesonide versus 6-methylprednisolone in active Crohn's disease. German/Austrian Budesonide Study Group. Gross V, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):905–9

Corticosteroid treatment of erythema multiforme major (Stevens-Johnson syndrome) in children. Kakourou T, et al. **Eur J Pediatr** 1997 Feb;156(2):90–3

The effect of preoperative high dose methylprednisolone in attenuating the metabolic response after oesophageal resection. Takeda S, et al. **Eur J Surg** 1997 Jul;163(7):511–7

Vascular rupture complicating transluminal angioplasty applied on a failed dialysis vascular access in a patient under chronic steroid therapy. Melki PS, et al. **Eur Radiol** 1997; 7(3):313–5

Effect of addition of inhaled salmeterol to the treatment of moderate-to-severe asthmatics uncontrolled on high-dose inhaled steroids. European Respiratory Study Group. Faurschou P, et al. **Eur Respir J** 1996 Sep;9(9):1885–90

The role of the host defence response in the progression and outcome of ARDS: pathophysiological correlations and response to glucocorticoid treatment. Meduri GU. **Eur Respir J** 1996 Dec;9(12):2650–70 (219 ref.)

Inhaled corticosteroids and pulmonary sarcoidosis [letter; comment] Pietinalho A, et al. **Eur Respir J** 1996 Jan; 9(1):180–1. Comment on: Eur Respir J 1995 May;8(5):679–81. Comment on: Eur Respir J 1995 May;8(5):682–8.

Do patients with COPD benefit from treatment with inhaled corticosteroids? [editorial] van Schayck CP, et al. **Eur Respir J** 1996 Oct;9(10):1969–72

Extended clomiphene citrate (CC) and prednisone for the treatment of chronic anovulation resistant to CC alone. Isaacs JD Jr, et al. **Fertil Steril** 1997 Apr;67(4):641–3

Results and prognostic factors in retrobulbar radiotherapy combined with systemic corticosteroids for endocrine orbitopathy (Graves' disease). Staar S, et al. **Front Radiat Ther Oncol** 1997;30:206–17

Does the presence of heparin and dexamethasone in the vitrectomy infusate reduce reproliferation in proliferative vitreoretinopathy? Williams RG, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug; 234(8):496–503

Treatment of active and postactive ileal and colonic Crohn's disease with oral pH-modified-release budesonide. German Budesonide Study Group. Caesar I, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):445–51

Keys to managing systemic lupus erythematosus. Roberts WN. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):113–6, 119–22, 125–6 (5 ref.)

Local steroid therapy in cutaneous hemangiomas. Gangopadhyay AN, et al. **Indian Pediatr** 1996 Jan; 33(1):31–3

Double-blind study of prednicarbate versus fluocortin butyl ester in atopic dermatitis. Aliaga A, et al. **Int J Dermatol** 1996 Feb;35(2):131–2

Pulsed administration of corticosteroids in the treatment of alopecia areata. Sharma VK. **Int J Dermatol** 1996 Feb; 35(2):133–6

Effect of steroid therapy on parameters of peripheral autonomic dysfunction in leprosy patients with acute neuritis. Wilder-Smith A, et al. **Int J Lepr Other Mycobact Dis** 1997 Mar;65(1):20–7

Dexamethasone in adenotonsillectomy. Tom LW, et al. **Int J Pediatr Otorhinolaryngol** 1996 Oct;37(2):115–20

The protective effect of methylprednisolone against cisplatin-induced nephrotoxicity in patients with urothelial tumors. Uozumi J, et al. **Int J Urol** 1996 Sep;3(5):343–7

Topical ibopamine and corticosteroids in the treatment of post-surgery ocular hypotony. Virno M, et al. **Int Ophthalmol** 1996–97;20(1–3):147–50

Role of steroid in childhood haemangioma: a 10 years review. Gangopadhyay AN, et al. **Int Surg** 1997 Jan–Mar; 82(1):49–51

The effect of a perioperative steroid pulse on surgical stress in hepatic resection. Shimada M, et al. **Int Surg** 1996 Jan–Mar;81(1):49–51

Hyper-adrenocorticotropinemia in a patient with Addison's disease after treatment with corticosteroids. Sugiyama K, et al. **Intern Med** 1996 Jul;35(7):555–9

Low-dose methotrexate administered weekly is an effective corticosteroid-sparing agent for the treatment of the cutaneous manifestations of dermatomyositis. Kasteler JS, et al. **J Am Acad Dermatol** 1997 Jan;36(1):67–71

Systemic cyclosporine and low-dose prednisone in the treatment of chronic severe alopecia areata: a clinical and immunopathologic evaluation. Shapiro J, et al. **J Am Acad Dermatol** 1997 Jan;36(1):114–7

Churg-Strauss syndrome. Gargulinski RB, et al. **J Am Osteopath Assoc** 1996 Jul;96(7):428–32

Prognostic significance of the early course of minimal change nephrotic syndrome: report of the International Study of Kidney Disease in Children. Tarshish P, et al. **J Am Soc Nephrol** 1997 May;8(5):769–76

Outcomes in the Guillain Barre syndrome: the role of steroids. Peter JV, et al. **J Assoc Physicians India** 1996 Mar;44(3):172–4

Steroids/dexamethasone in adults with bacterial meningitis [letter] Venkatachelam R. **J Assoc Physicians India** 1996 Sep;44(9):668

Short-term regular beta 2-adrenergic agonists treatment is safe in mild asthmatics taking low doses of inhaled steroids. Ganassini A, et al. **J Asthma** 1997;34(1):61–6

Prednisolone therapy for intra-abdominal desmoid tumors in a patient with familial adenomatous polyposis. Nakada I, et al. **J Gastroenterol** 1997 Apr;32(2):255–9

Injection versus surgery in the treatment of trigger finger. Benson LS, et al. **J Hand Surg [Am]** 1997 Jan;22(1):138–44

Percutaneous release of trigger digit with and without cortisone injection. Patel MR, et al. **J Hand Surg [Am]** 1997 Jan;22(1):150–5

Improved long-term survival after heart transplantation predicted by successful early withdrawal from maintenance corticosteroid therapy. Taylor DO, et al.

J Heart Lung Transplant 1996 Oct;15(10):1039–46

Steroid and interferon therapy in liver/kidney microsomal antibody–positive patients with chronic hepatitis C [letter] Vento S, et al. **J Hepatol** 1997 Apr;26(4):955–6

Increased fetal colonic muscle contractility following glucocorticoid and thyroxine therapy: implications for meconium passage. Ross B, et al. **J Matern Fetal Med** 1997 May–Jun;6(3):129–33

Serial magnetic resonance imaging of delayed radiation necrosis treated with dexamethasone. Case illustration. Tada E, et al. **J Neurosurg** 1997 Jun;86(6):1067

Treatment of rats with dexamethasone or thyroxine reverses zinc deficiency–induced intestinal damage. Nobili F, et al. **J Nutr** 1997 Sep;127(9):1807–13

Prenatal dexamethasone administration to premature rats exposed to prolonged hyperoxia: a new rat model of pulmonary fibrosis (bronchopulmonary dysplasia). Chen Y, et al. **J Pediatr** 1997 Mar;130(3):409–16

Methotrexate treatment of Wegener granulomatosis in children. Gottlieb BS, et al. **J Pediatr** 1996 Oct;129(4):604–7

Effects of dexamethasone on blood pressure in premature infants with bronchopulmonary dysplasia. Marinelli KA, et al. **J Pediatr** 1997 Apr;130(4):594–602

Idiopathic esophageal ulcers in a child with AIDS. Narwal S, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):211–4

Steroid-responsive esophageal obstruction in a child with chronic granulomatous disease (CGD). al-Tawil YS, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):182–5

Steroid–pulse therapy may suppress inflammation in severe sympathetic ophthalmia. Hebestreit H, et al. **J Pediatr Ophthalmol Strabismus** 1997 Mar–Apr; 34(2):124–6

Maternal dexamethasone treatment enhances the expression of surfactant apoprotein A in the hypoplastic lung of rabbit fetuses induced by oligohydramnios. Asabe K, et al. **J Pediatr Surg** 1996 Oct;31(10):1369–75

The improved outlook for biliary atresia with corticosteroid therapy. Muraji T, et al. **J Pediatr Surg** 1997 Jul; 32(7):1103–6; discussion 1106–7

Physician opinions of preterm infant outcome and their effect on antenatal corticosteroid use. Gardner MO, et al. **J Perinatol** 1996 Nov–Dec;16(6):431–4

Combined effects of antenatal corticosteroids and surfactant supplementation on the outcome of very low birth weight infants. Modanlou HD, et al. **J Perinatol** 1996 Nov–Dec; 16(6):422–8; quiz 429–30

Effect of five days of dexamethasone therapy on ventilator dependence and adrenocorticotropic hormone–stimulated cortisol concentrations. Scott SM, et al. **J Perinatol** 1997 Jan–Feb;17(1):24–8

Mothers' reactions to prenatal diagnostic procedures and dexamethasone treatment of congenital adrenal hyperplasia. Trautman PD, et al. **J Psychosom Obstet Gynaecol** 1996 Sep;17(3):175–81

A placebo–controlled, blinded comparison between betamethasone and dexamethasone to enhance lung maturation in the fetal mouse. Christensen HD, et al. **J Soc Gynecol Investig** 1997 May–Jun;4(3):130–4

Consequences of high–dose steroid therapy for acute spinal cord injury. Gerndt SJ, et al. **J Trauma** 1997 Feb; 42(2):279–84

Inhaled steroids and the risk of hospitalization for asthma. Donahue JG, et al. **JAMA** 1997 Mar 19;277(11):887–91

How safe is long–term prenatal glucocorticoid treatment? [see comments] Seckl JR, et al. **JAMA** 1997 Apr 2; 277(13):1077–9. Comment in: JAMA 1997 Aug 20;278(7):549.

The German Glomerulonephritis Therapy Study: 10 years of controlled randomized trials for the treatment of idiopathic glomerulonephritis. Risler T, et al. **Kidney Blood Press Res** 1996;19(3–4):196–200

Do systemic corticosteroids effectively treat obstructive sleep apnea secondary to adenotonsillar hypertrophy? Al–Ghamdi SA, et al. **Laryngoscope** 1997 Oct; 107(10):1382–7

Long–term results regarding the use of recombinant interferon alpha–2b in the treatment of II type mixed essential cryoglobulinemia. Lauta VM, et al. **Med Oncol** 1995 Dec;12(4):223–30

Coronary artery bypass grafting in chronic immune–mediated thrombocytopenic purpura: preoperative treatment with intravenous immunoglobulin and corticosteroids. Hofmeister EP. **Mil Med** 1995 Dec;160(12):624–5

Rapid healing of endobronchial tuberculosis by local endoscopic injection of corticosteroids. Verhaeghe W, et al. **Monaldi Arch Chest Dis** 1996 Oct;51(5):391–3

Prednisone and aspirin in women with autoantibodies and unexplained recurrent fetal loss [see comments] Laskin CA, et al. **N Engl J Med** 1997 Jul 17;337(3):148–53. Comment in: N Engl J Med 1997 Jul 17;337(3):197–8.

Successful treatment of a patient with a thymoma and pure red–cell aplasia with octreotide and prednisone [published erratum appears in N Engl J Med 1997 Apr 3;336(14):1039] Palmieri G, et al. **N Engl J Med** 1997 Jan 23;336(4):263–5

Relapsing membranous nephropathy with a good response to steroid therapy [letter] Tsukada Y, et al. **Nephron** 1997; 76(2):218–21

Fever of unknown origin responding to steroid therapy. Suzuki A, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Feb;20(1):21–9

Preterm premature ruptured membranes: a randomized trial of steroids after treatment with antibiotics. Lewis DF, et al. **Obstet Gynecol** 1996 Nov;88(5):801–5

A ten–year follow–up on a prospective, randomized trial of postoperative corticosteroids after trabeculectomy. Araujo SV, et al. **Ophthalmology** 1995 Dec;102(12):1753–9

Inhibition of preretinal and optic nerve head neovascularization in pigs by intravitreal triamcinolone acetonide. Danis RP, et al. **Ophthalmology** 1996 Dec; 103(12):2099–104

Dexamethasone perfusion of the labyrinth plus intravenous dexamethasone for Ménière's disease. Shea JJ Jr, et al. **Otolaryngol Clin North Am** 1996 Apr;29(2):353–8 (24 ref.)

Comparison of electrical characteristics between a steroid–eluting single–pass VDD lead and a standard steroid–eluting ventricular lead. Thera Pacemaker Study Group. Schuchert A, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1787–9

Protein–losing enteropathy after the modified fontan operation: oral prednisone treatment with biopsy and laboratory proved improvement. Zellers TM, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):115–7

The use of pulse corticosteroid therapy for juvenile dermatomyositis [see comments] Paller AS. **Pediatr Dermatol** 1996 Jul–Aug;13(4):347–8. Comment in: Pediatr Dermatol 1997 May–Jun;14(3):246–7.

The course of chickenpox in asthmatic children receiving inhaled budesonide. Nursoy MA, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):74–7

Early production of macrophage inflammatory protein–1 alpha occurs in respiratory distress syndrome and is associated with poor outcome. Murch SH, et al. **Pediatr Res** 1996 Sep;40(3):490–7

Methylprednisolone attenuates the pulmonary hypertensive response in porcine meconium aspiration. Soukka H, et al. **Pediatr Res** 1997 Aug;42(2):145–50

Inhaled glucocorticoid therapy of childhood asthma is associated with reduced peripheral blood T cell activation and 'Th2–type' cytokine mRNA expression. Gemou–Engesaeth V, et al. **Pediatrics** 1997 May; 99(5):695–703

Effect of corticosteroids on intracranial pressure, computed tomographic findings, and clinical outcome in young children with tuberculous meningitis. Schoeman JF, et al. **Pediatrics** 1997 Feb;99(2):226–31

Tolerance to the bronchoprotective effect of salmeterol in adolescents with exercise–induced asthma using concurrent inhaled glucocorticoid treatment [see comments] Simons FE, et al. **Pediatrics** 1997 May;99(5):655–9. Comment in: Pediatrics 1997 May;99(5):729–30.

Resolution of hydrops in twin–twin transfusion syndrome: could steroids have a role? Scott F, et al. **Prenat Diagn** 1997 May;17(5):467–70

Corticosteroid therapy for the treatment of acute attacks of crystal–induced arthritis: an effective alternative to nonsteroidal antiinflammatory drugs [see comments] Werlen D, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):248–54 . Comment in: Rev Rhum Engl Ed 1996 Apr;63(4):231–3.

A simple radiographic scoring method for monitoring pulmonary sarcoidosis: relations between radiographic scores, dyspnoea grade and respiratory function in the British Thoracic Society Study of Long–Term Corticosteroid Treatment. Muers MF, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1997 Mar;14(1):46–56

Evaluation of the efficacy and toxicity of the cyclosporine A–flucortolone–methotrexate combination in the treatment of sarcoidosis. Pia G, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Sep;13(2):146–52

Course of asymptomatic liver involvement in sarcoidosis: role of therapy in selected cases. Vatti R, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1997 Mar;14(1):73–6

Defined–formula diets versus steroids in the treatment of active Crohn's disease: a meta–analysis. Messori A, et al. **Scand J Gastroenterol** 1996 Mar;31(3):267–72

Granulomatous mastitis diagnosed and followed up by fine–needle aspiration cytology, and successfully treated by corticosteroid therapy: report of a case. Sato N, et al. **Surg Today** 1996;26(9):730–3

Comparison of short courses of oral prednisolone and fluticasone propionate in the treatment of adults with acute exacerbations of asthma in primary care. Levy ML, et al. **Thorax** 1996 Nov;51(11):1087–92

Effects of the long acting beta agonist formoterol on asthma control in asthmatic patients using inhaled corticosteroids. The Netherlands and Canadian Formoterol Study Investigators. van der Molen T, et al. **Thorax** 1997 Jun; 52(6):535–9

Measurement of pulmonary status and surfactant protein levels during dexamethasone treatment of neonatal respiratory distress syndrome [see comments] Wang JY, et al. **Thorax** 1996 Sep;51(9):907–13. Comment in: Tidsskr Prakt Tandlaeg 1996 Sep;51(9):880–1.

The effect of somatostatin versus corticosteroid in the treatment of Graves' ophthalmopathy [see comments] Kung AW, et al. **Thyroid** 1996 Oct;6(5):381–4. Comment in: Thyroid 1997 Jun;7(3):489.

Does chronic glucocorticosteroid therapy in pregnant renal allograft recipients affect cortisol levels in neonates? Kozłowska–Boszko B, et al. **Transplant Proc** 1996 Dec; 28(6):3490–1

Prednisolone therapy of idiopathic feline lower urinary tract disease: a double–blind clinical study. Osborne CA, et al. **Vet Clin North Am Small Anim Pract** 1996 May;26(3):563–9

Kimura's disease. A typical case of a rare disorder. Jani A, et al. **West J Med** 1997 Feb;166(2):142–4 (7 ref.)

Retinoic acid syndrome in acute promyelocytic leukemia. Sentero D, et al. **Wis Med J** 1997 Apr;96(4):35–8

[Role of corticoids in purulent meningitis in children: analysis of literature studies] Jacqz–Aigrain E, et al. **Arch Pediatr** 1997 Jan;4(1):52–60 (46 ref.) (Eng. Abstr.) **(Fre)**

[Sarcoidosis symptomatic cardiomyopathy: report of 10 cases] Godeau P, et al. **Bull Acad Natl Med** 1996 Nov; 180(8):2005–15; discussion 2015–8 (Eng. Abstr.) **(Fre)**

[Corticoids and HELLP syndrome. A new indicator? (letter)] Leclercq G, et al. **Presse Med** 1997 May 24;26(17):808–9 **(Fre)**

[Diarrhea syndrome under corticoid therapy] du Cailar G, et al. **Rev Med Interne** 1997;18 Suppl 3:295s–298s **(Fre)**

[Natural and synthetic glucocorticoids in the racing horse: a review of the literature] Klaus AM, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec; 103(12):494–500 (82 ref.) (Eng. Abstr.) **(Ger)**

[Systemic therapy with glucocorticosteroids in dermatology. Workshop proceedings. 9–10 February 1996, Potsdam] **Fortschr Med Suppl** 1996;174:2–12 **(Ger)**

[A 55–year–old patient with Werlhof's disease] Schneider W, et al. **Internist (Berl)** 1996 Mar;37(3):315–7 **(Ger)**

[Pulsed high–dose dexamethasone in resistant immune thrombocytopenic purpura] Bulvik S, et al. **Harefuah** 1996 Jul;131(1–2):18–20, 71 (Eng. Abstr.) **(Heb)**

[Expression of neurotrophin and IL–1 beta mRNAs following spinal cord injury and the effects of methylprednisolone treatment] Hayashi M, et al. **Kaibogaku Zasshi** 1997 Jun; 72(3):209–13 (Eng. Abstr.) **(Jpn)**

[Experience in using Celeston (betamethasone) in emergency states in allergology] Latysheva TV, et al. **Anesteziol Reanimatol** 1996 May–Jun;(3):48–50 **(Rus)**

[Factors influencing the results of chronic glomerulonephritis treatment] Riabov SI, et al. **Klin Med (Mosk)** 1997; 75(2):38–42 (Eng. Abstr.) **(Rus)**

[The hormonal sensitivity of glomerulonephritis patients] Ivashchenko ZhA, et al. **Ter Arkh** 1996;68(6):13–6 (Eng. Abstr.) **(Rus)**

TOXICITY

Effect of the beta–agonist clenbuterol on dexamethasone–induced diaphragm dysfunction in rabbits. Jiang TX, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1778–83

Dexamethasone suppresses in vivo levels of bone collagen synthesis in neonatal mice. Advani S, et al. **Bone** 1997 Jan; 20(1):41–6

Analysis of circadian variation of blood pressure and heart rate in dexamethasone–induced hypertensive rats. Kim CY, et al. **Clin Exp Hypertens** 1996 Jan;18(1):65–76

Detection and regulation of Cu/Zn–SOD and Mn–SOD in rat cochlear tissues. Yao X, et al. **Hear Res** 1996 Jul; 96(1–2):199–203

Differences in collagen and cell density during normal and dexamethasone–treated secondary palate development in two strains of mice. Montenegro MA, et al. **Int J Dev Biol** 1996;Suppl 1:245S–246S

Thyroid hormone modulation of glucocorticoid–induced polycystic kidney disease. Crocker JF, et al. **J Am Soc Nephrol** 1996 Apr;7(4):633–4

Inhibition of steroid–induced cataract in rat eyes by administration of vitamin–E ophthalmic solution. Kojima M, et al. **Ophthalmic Res** 1996;28 Suppl 2:64–71

Anticataract action of vitamin E: its estimation using an in vitro steroid cataract model. Ohta Y, et al. **Ophthalmic Res** 1996;28 Suppl 2:16–25

A new steroid–induced cataract model in the rat: long–term prednisolone applications with a minimum of X–irradiation. Shui YB, et al. **Ophthalmic Res** 1996;28 Suppl 2:92–101

Indicators of delayed maturation of rat heart treated prenatally with dexamethasone. Torres A, et al. **Pediatr Res** 1997 Aug;42(2):139–44

GLUCOCORTICOIDS, TOPICAL

ADMINISTRATION & DOSAGE

Treatment of hand dermatosis: a comparative study of a topical glucocorticoid ointment vs solution occluded with a new thin hydrocolloid dressing [letter] Beitner H. **Acta Derm Venereol** 1996 Sep;76(5):408–9

Effects of inhaled and oral glucocorticoids on inflammatory indices in asthma and COPD. Keatings VM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):542–8

Fluticasone propionate, salmeterol xinafoate, and their combination in the treatment of nocturnal asthma. Weersink EJ, et al. **Am J Respir Crit Care Med** 1997 Apr; 155(4):1241–6

An inhaled glucocorticoid does not prevent tolerance to the bronchoprotective effect of a long–acting inhaled beta 2–agonist. Yates DH, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1603–7

Dose ranging study of mometasone furoate (Nasonex) in seasonal allergic rhinitis. Bronsky EA, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):51–6

Response to intranasal fluticasone propionate in perennial allergic rhinitis not associated with glucocorticoid receptor characteristics. Garrelds IM, et al. **Ann Allergy Asthma Immunol** 1997 Mar;78(3):319–24

Fluticasone propionate aqueous nasal spray in the treatment

of nasal polyposis. Holmberg K, et al.
Ann Allergy Asthma Immunol 1997 Mar;78(3):270–6

Aetiology and management of hypertrophic scars and keloids [letter; comment] Wakelin SH, et al.
Ann R Coll Surg Engl 1996 Nov;78(6):558. Comment on: Ann R Coll Surg Engl 1996 May;78(3 (Pt 1)):168–75.

Augmented betamethasone: efficacy in psoriasis with different dosing frequencies [letter] Singh S.
Arch Dermatol 1996 Dec;132(12):1525–6

First-line treatment of hay fever: what is the best option? [editorial; comment] Freedman SO. **Can Med Assoc J** 1997 Apr 15;156(8):1141–3. Comment on: Can Med Assoc J 1997 Apr 15;156(8):1123–31.

The efficacy of fluticasone propionate aqueous nasal spray for allergic rhinitis and its relationship to topical effects. Howland WC 3rd, et al. **Clin Ther** 1996 Nov–Dec; 18(6):1106–17

The effect of topically applied corticosteroid on irritant and allergic patch test reactions. Green C.
Contact Dermatitis 1996 Dec;35(6):331–3

Effect of a topical corticosteroid, a retinoid and a vitamin D3 derivative on sodium dodecyl sulphate induced skin irritation. Le TK, et al. **Contact Dermatitis** 1997 Jul; 37(1):19–26

Effect of desonide ointment, 0.05%, on the hypothalamic–pituitary–adrenal axis of children with atopic dermatitis. Lucky AW, et al. **Cutis** 1997 Mar;59(3):151–3

Triamcinolone improves outcome in Crohn's disease strictures. Lavy A. **Dis Colon Rectum** 1997 Feb;40(2):184–6

A local lymph node assay to analyse immunosuppressive effects of topically applied drugs. Homey B, et al.
Eur J Pharmacol 1997 May 1;325(2–3):199–207

Short-term knemometry and urine cortisol excretion in children treated with fluticasone propionate and budesonide: a dose response study. Agertoft L, et al.
Eur Respir J 1997 Jul;10(7):1507–12

Assessment of the relative systemic potency of inhaled fluticasone and budesonide. Boorsma M, et al.
Eur Respir J 1996 Jul;9(7):1427–32

Distribution of inhaled fluticasone propionate between human lung tissue and serum in vivo. Esmailpour N, et al. **Eur Respir J** 1997 Jul;10(7):1496–9

Effects of two weeks of topical budesonide treatment on microvascular exudative responsiveness in healthy human nasal airways. Greiff L, et al. **Eur Respir J** 1997 Apr; 10(4):841–5

Fluticasone propionate compared with budesonide: a double-blind trial in asthmatic children using powder devices at a dosage of 400 microg x day(–1). Hoekx JC, et al. **Eur Respir J** 1996 Nov;9(11):2263–72

Topical flurbiprofen therapy in vernal keratoconjunctivitis. Sud RN, et al. **Indian J Med Sci** 1995 Sep;49(9):205–9

A placebo- and active-controlled randomized trial of prophylactic treatment of seasonal allergic rhinitis with mometasone furoate aqueous nasal spray. Graft D, et al.
J Allergy Clin Immunol 1996 Oct;98(4):724–31

Initial experience with 1.5-mm2 high impedance, steroid-eluting pacing electrodes. Fogel R, et al.
Pacing Clin Electrophysiol 1996 Feb;19(2):188–96

Hospitalization of adults for asthma and inhaled corticosteroid use in an island population. Cacciottolo JM, et al. **Respir Med** 1997 Aug;91(7):411–6

Transdermal iontophoretic delivery of triamcinolone acetonide: a preliminary study in hairless rats. Shigeki S, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):177–81

Evaluation of topical antipsoriatic treatment by chromametry, visiometry and 20-MHz ultrasound in the psoriasis plaque test. Bangha E, et al. **Skin Pharmacol** 1996; 9(5):298–306

[Steroid-induced myopathy in left-sided ulcerative colitis. Successful treatment and continued therapy with the topical steroid budesonide] Caesar I, et al. **Med Klin** 1997 Jun 15;92(6):358–62 (Eng. Abstr.) **(Ger)**

[Results of CT-guided periradicular pain therapy] Uhlenbrock D, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jun;166(6):528–34 (Eng. Abstr.) **(Ger)**

[Modification of the detection and stimulation behavior of active and passive fixed bipolar pacemaker electrodes by depot dexamethasone] Burkhardt D, et al. **Z Kardiol** 1997 Jul;86(7):530–7 (Eng. Abstr.) **(Ger)**

[Phimosis can be treated with local steroids] Ruud E, et al.
Tidsskr Nor Laegeforen 1997 Feb 10;117(4):513–4 (Eng. Abstr.) **(Nor)**

ADVERSE EFFECTS

Systemic contact dermatitis caused by systemic corticosteroid use [letter] Murata Y, et al. **Arch Dermatol** 1997 Aug; 133(8):1053–4

Depletion of stratum corneum intercellular lipid lamellae and barrier function abnormalities after long-term topical corticosteroids. Sheu HM, et al. **Br J Dermatol** 1997 Jun; 136(6):884–90

Accelerated ocular hypertensive response to topical steroids in children [letter] Lam DS, et al. **Br J Ophthalmol** 1997 May;81(5):422–3

Corticosteroid contact allergy: an EECDRG multicentre study. Dooms-Goossens A, et al. **Contact Dermatitis** 1996 Jul;35(1):40–4

Allergic contact dermatitis from propyl gallate in desonide cream (Locapred). Hernández N, et al.
Contact Dermatitis 1997 Feb;36(2):111

Corticosteroid allergy: report of 3 unusually acute cases. Rodríguez-Serna M, et al. **Contact Dermatitis** 1996 Dec; 35(6):361–2

Morbilliform erythema-multiforme-like eruption from desoxymethasone. Stingeni L, et al. **Contact Dermatitis** 1996 Dec;35(6):363–4

Corticosteroid contact hypersensitivity: what vehicle and concentration? Wilkinson SM, et al. **Contact Dermatitis** 1996 May;34(5):305–8

Fluticasone propionate and mometasone furoate have a low risk of contact sensitization. Wilkinson SM, et al.
Contact Dermatitis 1996 May;34(5):365–6

Insulin-like growth factor axis, bone and collagen turnover in children with atopic dermatitis treated with topical glucocorticosteroids. Wolthers OD, et al. **Dermatology** 1996;192(4):337–42

Topical glucocorticoids with improved risk–benefit ratio. Rationale of a new concept. Schäfer-Korting M, et al.
Drug Saf 1996 Jun;14(6):375–85 (85 ref.)

Contact allergy to corticosteroids. Lauerma AI, et al.
Int J Dermatol 1996 Feb;35(2):92–3

Disseminated varicella and staphylococcal pericarditis after topical steroids [letter; comment] Brumund MR, et al.
J Pediatr 1997 Jul;131(1 Pt 1):162–3. Comment on: J Pediatr 1997 Jul;131(1 Pt 1):10–2.

Secrets about drugs are not healthy [editorial] **Lancet** 1996 Sep 21;348(9030):765

High-dose inhaled steroids in asthmatic children [letter; comment] Cade A, et al. **Lancet** 1996 Sep 21;348(9030):819 . Comment on: Lancet 1996 Jul 6;348(9019):27–9.

High-dose inhaled steroids in asthmatic children [letter; comment] Lenney W. **Lancet** 1996 Sep 21;348(9030):819–20 . Comment on: Lancet 1996 Jul 6;348(9019):27–9.

An assessment of steroid hypersensitivity in asthma. Wilkinson SM, et al. **Respir Med** 1997 Apr;91(4):231–3

Osteoporotic vertebral fractures in a man under high-dose inhaled glucocorticoid therapy. A case-report with a review of the literature. Laroche M, et al.
Rev Rhum Engl Ed 1997 Apr;64(4):267–70 (16 ref.)

[A clinical analysis of 93 cases with corticosteroid cataract] Ye T, et al. **Chung Hua Yen Ko Tsa Chih** 1995 Nov; 31(6):443–6 (Eng. Abstr.) **(Chi)**

ANALYSIS

Determination of dexamethasone in tears by capillary electrophoresis. Baeyens V, et al.
J Chromatogr B Biomed Appl 1997 Apr 25;692(1):222–6

BLOOD

Simultaneous determination of triamcinolone acetonide and hydrocortisone in human plasma by high-performance liquid chromatography. Döppenschmitt SA, et al.
J Chromatogr B Biomed Appl 1996 Jun 28;682(1):79–88

Determination of epimers 22R and 22S of budesonide in human plasma by high-performance liquid chromatography-atmospheric pressure chemical ionization mass spectrometry. Li YN, et al.
J Chromatogr B Biomed Appl 1996 Aug 30;683(2):259–68

A radioimmunoassay for the determination of tipredane in human plasma. Bayliss MA, et al.
J Pharm Biomed Anal 1996 Oct;15(1):21–31

CHEMISTRY

Solid-state investigation of fluocinolone acetonide. Bartolomei M, et al. **J Pharm Biomed Anal** 1997 Aug; 15(12):1813–20

The S-oxidative degradation of a novel corticosteroid tipredane (INN) Part III. Detailed investigations into the disulphoxidation of tipredane. Euerby MR, et al.
J Pharm Biomed Anal 1996 Dec;15(3):299–313

CONTRAINDICATIONS

Three rules of thumb [letter] Newcomb RD.
J Am Optom Assoc 1996 Nov;67(11):645, 706

METABOLISM

Determination of a major metabolite of tipredane in rat urine by high-performance liquid chromatography with column switching. Baker PR, et al.
J Chromatogr B Biomed Appl 1997 Jun 20;694(1):193–8

Determination of the two major human metabolites of tipredane in human urine by high-performance liquid chromatography with column switching. Bayliss MA, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20; 694(1):199–209

PHARMACOKINETICS

Excretion and metabolism of tipredane, a novel glucocorticoid, in the rat, mouse, monkey, and human. Cooper AE, et al. **Drug Metab Dispos** 1996 Oct; 24(10):1071–80

Rectal pharmacokinetics of budesonide. Dahlstrom K, et al.
Eur J Clin Pharmacol 1996;49(4):293–8

Distribution of inhaled fluticasone propionate between human lung tissue and serum in vivo. Esmailpour N, et al. **Eur Respir J** 1997 Jul;10(7):1496–9

Flovent (fluticasone propionate inhalation aerosol) [letter] Levy DS. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):861–2

The influence of dexamethasone 0.1% eye drops on plasma cortisol and ACTH concentrations after cataract surgery. Roters S, et al. **Ophthalmologica** 1996;210(4):211–4

Evaluation of the proposed FDA pilot dose-response methodology for topical corticosteroid bioequivalence testing. Demana PH, et al. **Pharm Res** 1997 Mar;14(3):303–8

Prednicarbate biotransformation in human foreskin keratinocytes and fibroblasts. Gysler A, et al.
Pharm Res 1997 Jun;14(6):793–7

[Modern topical corticoids—strong yet gentle to the skin] **Hautarzt** 1996 May;47(5 Suppl):1–12 **(Ger)**

PHARMACOLOGY

Review article: older systemic and newer topical glucocorticosteroids and the gastrointestinal tract. Thiesen A, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):487–96 (111 ref.)

Preterm newborn lamb renal and cardiovascular responses after fetal or maternal antenatal betamethasone. Berry LM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1972–9

Glucocorticoids induce beta2-adrenergic receptor function in human nasal mucosa. Baraniuk JN, et al.
Am J Respir Crit Care Med 1997 Feb;155(2):704–10

In vitro and in vivo modulation of alpha- and beta-glucocorticoid-receptor mRNA in human bronchial epithelium. Korn SH, et al.
Am J Respir Crit Care Med 1997 Mar;155(3):1117–22

Expression of P-glycoprotein 170 in nasal mucosa may be increased with topical steroids. Henriksson G, et al.
Am J Rhinol 1997 Jul–Aug;11(4):317–21

A comparison of aqueous suspensions of budesonide nasal spray (128 micrograms and 256 micrograms once daily) and fluticasone propionate nasal spray (200 micrograms once daily) in the treatment of adult patients with seasonal allergic rhinitis. Stern MA, et al. **Am J Rhinol** 1997 Jul–Aug;11(4):323–30

Adrenal function and high dose inhaled corticosteroids for asthma. Yiallouros PK, et al. **Arch Dis Child** 1997 May; 76(5):405–10

ATP depletion inhibits glucocorticoid-induced thymocyte apoptosis. Stefanelli C, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):909–17

Effects of local and systemic budesonide on allergen-induced airway reactions in the pig. Fornhem C, et al.
Br J Pharmacol 1996 Jun;118(4):989–97

Fluticasone propionate: topical or systemic effects? Howland WC 3rd. **Clin Exp Allergy** 1996 May;26 Suppl 3:18–22

Sensitization studies with mometasone furoate, tixocortol pivalate, and budesonide in the guinea pig. Bruze M, et al. **Contact Dermatitis** 1996 Mar;34(3):161–4

Effect of topical anti-inflammatory drugs on epithelial cell-induced eosinophil survival and GM-CSF secretion. Roca-Ferrer J, et al. **Eur Respir J** 1997 Jul;10(7):1489–95

Effect of corticosteroids on release of RANTES and sICAM-1 from cultured human bronchial epithelial cells, induced by TNF-alpha. Wang JH, et al. **Eur Respir J** 1997 Apr;10(4):834–40

Parallel intraindividual evaluation of the vasoconstrictory action and the anti-allergic activity of topical corticosteroids. Seidenari S, et al. **Exp Dermatol** 1997 Apr; 6(2):75–80

The mechanism of altered neural function in a rat model of acute colitis. Jacobson K, et al. **Gastroenterology** 1997 Jan;112(1):156–62

Interleukin-10- and corticosteroid-induced reduction in type I procollagen in a human ex vivo scar culture. Wangoo A, et al. **Int J Exp Pathol** 1997 Feb;78(1):33–41

High-dose inhaled steroids in asthmatic children [letter; comment] Brus RH, et al. **Lancet** 1996 Sep 21; 348(9030):820–1; discussion 821. Comment on: Lancet 1996 Jul 6;348(9019):27–9.

High-dose inhaled steroids in asthmatic children [letter; comment] Lipworth BJ, et al. **Lancet** 1996 Sep 21; 348(9030):820; discussion 821. Comment on: Lancet 1996 Jul 6;348(9019):27–9.

The effect of topical steroid on the actions of vasoconstrictor and vasodilator peptides in human skin. Goldsmith P, et al. **Skin Pharmacol** 1996;9(5):289–97

Effects of calcipotriol and clobetasol-17-propionate on UVB-irradiated human skin: an immunohistochemical study. van der Vleuten CJ, et al. **Skin Pharmacol** 1996; 9(6):355–65

THERAPEUTIC USE

Comparison of cyclosporine and topical betamethasone-17,21-dipropionate in the treatment of severe chronic hand eczema. Granlund H, et al.
Acta Derm Venereol 1996 Sep;76(5):371–6

Comparison of the influence of cyclosporine and topical betamethasone-17,21-dipropionate treatment on quality of life in chronic hand eczema. Granlund H, et al.
Acta Derm Venereol 1997 Jan;77(1):54–8

Antimicrobial ear drop medication therapy. Suzuki K, et al.
Acta Otolaryngol Suppl (Stockh) 1996;525:68–72

Once-daily mometasone furoate aqueous nasal spray (Nasonex) in seasonal allergic rhinitis: an active- and placebo-controlled study. Hebert JR, et al. **Allergy** 1996 Aug;51(8):569–76

IL-13 mRNA and immunoreactivity in allergen-induced rhinitis: comparison with IL-4 expression and modulation by topical glucocorticoid therapy. Ghaffar O, et al.

Am J Respir Cell Mol Biol 1997 Jul;17(1):17–24
Effects of inhaled and oral glucocorticoids on inflammatory indices in asthma and COPD. Keatings VM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):542–8
Budesonide aqueous nasal spray and pressurized metered dose inhaler in the treatment of adult patients with seasonal allergic rhinitis. Day J, et al. **Am J Rhinol** 1997 Jan–Feb; 11(1):77–83
Intranasal fluticasone propionate inhibits recovery of chemokines and other cytokines in nasal secretions in allergen–induced rhinitis. Weido AJ, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):407–15
Double blind placebo controlled trial of nebulised budesonide for croup. Godden CW, et al. **Arch Dis Child** 1997 Feb; 76(2):155–8
Outpatient treatment of bleb infection. Chen PP, et al. **Arch Ophthalmol** 1997 Sep;115(9):1124–8
Glucocorticoid treatment for nasal polyps. The use of topical budesonide powder, intramuscular betamethasone, and surgical treatment. Lildholdt T, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):595–600
Ragweed allergic rhinitis and the paranasal sinuses. A computed tomographic study. Naclerio RM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):193–6
Epidermal cell DNA content and intermediate filaments keratin 10 and vimentin after treatment of psoriasis with calcipotriol cream once daily, twice daily and in combination with clobetasone 17–butyrate cream or betamethasone 17–valerate cream: a comparative flow cytometric study. Glade CP, et al. **Br J Dermatol** 1996 Sep;135(3):379–84
Comparative efficacy of calcipotriol (MC903) cream and betamethasone 17–valerate cream in the treatment of chronic plaque psoriasis. A randomized, double–blind, parallel group multicentre study. Calcipotriol Study Group. Molin L, et al. **Br J Dermatol** 1997 Jan;136(1):89–93
Corticosteroids in the management of croup [letter] Whelan TR. **Br J Gen Pract** 1996 Aug;46(409):493–4
Chronic sinusitis refractory to standard management in patients with humoral immunodeficiencies. Buehring I, et al. **Clin Exp Immunol** 1997 Sep;109(3):468–72
Effect of topical beclomethasone on histamine–induced increases in nasal airflow resistance and secretion in perennial rhinitis. Studham JM, et al. **Clin Otolaryngol** 1993 Aug;18(4):285–90
The effect of budesonide (Rhinocort) in the treatment of small and medium–sized nasal polyps. Vendelo Johansen L, et al. **Clin Otolaryngol** 1993 Dec;18(6):524–7
Once–daily mometasone furoate nasal spray: efficacy and safety of a new intranasal glucocorticoid for allergic rhinitis. Davies RJ, et al. **Clin Ther** 1997 Jan–Feb; 19(1):27–38; discussion 2–3 (24 ref.)
Comparison of an antifungal agent used alone with an antifungal used with a topical steroid in inflammatory tinea pedis. Elewski BE, et al. **Cutis** 1996 Oct;58(4):305–7
Tachyphylaxis to histamine–induced wheal suppression by topical 0.05% clobetasol propionate in normal versus croton oil–induced dermatitic skin. Singh S, et al. **Dermatology** 1996;193(2):121–3
Comparative evaluation of the short–term bactericidal potential of a steroid–antibiotic combination versus steroid in the treatment of chronic bacterial blepharitis and conjunctivitis. Shulman DG, et al. **Eur J Ophthalmol** 1996 Oct–Dec;6(4):361–7
A comparison of two ophthalmic steroid–antibiotic combinations after cataract surgery. van Endt JJ, et al. **Eur J Ophthalmol** 1997 Apr–Jun;7(2):144–8
Topical clobetasol propionate compared with placebo in the treatment of unretractable foreskin. Lindhagen T. **Eur J Surg** 1996 Dec;162(12):969–72
Does ketotifen have a steroid–sparing effect in childhood asthma? Canny GJ, et al. **Eur Respir J** 1997 Jan;10(1):65–70
Glucocorticoid resistant asthma: T–lymphocyte steroid metabolism and sensitivity to glucocorticoids and immunosuppressive agents. Corrigan CJ, et al. **Eur Respir J** 1996 Oct;9(10):2077–86
Effects of fluticasone propionate on methacholine dose–response curves in nonsmoking atopic asthmatics. Overbeek SE, et al. **Eur Respir J** 1996 Nov;9(11):2256–62
Glucocorticoid–resistant asthma: pathogenesis and clinical implications for management. Szefler SJ, et al. **Eur Respir J** 1997 Jul;10(7):1640–7 (45 ref.)
Rectal corticosteroids versus alternative treatments in ulcerative colitis: a meta–analysis. Marshall JK, et al. **Gut** 1997 Jun;40(6):775–81
Double–blind study of prednicarbate versus fluocortin butyl ester in atopic dermatitis. Aliaga A, et al. **Int J Dermatol** 1996 Feb;35(2):131–2
Calcipotriol in psoriasis vulgaris: a controlled trial comparing betamethasone dipropionate + salicylic acid. Crosti C, et al. **Int J Dermatol** 1997 Jul;36(7):537–9
Nasal nitric oxide is increased in patients with asthma and allergic rhinitis and may be modulated by nasal glucocorticoids. Kharitonov SA, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):58–64
Guidelines of care for the use of topical glucocorticosteroids. American Academy of Dermatology. Drake LA, et al. **J Am Acad Dermatol** 1996 Oct;35(4):615–9
Treatment of 16 patients with bullous pemphigoid with oral tetracycline and niacinamide and topical clobetasol. Hornschuh B, et al. **J Am Acad Dermatol** 1997 Jan; 36(1):101–3
Clinical pearl: discoid lupus erythematosus—treatment with occlusive compression. Maggio KL, et al. **J Am Acad Dermatol** 1996 Oct;35(4):627–8
Eosinophilic keratoconjunctivitis in seven horses. Yamagata M, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1283–6
Topical steroid therapy in oral lichen planus: review of a novel delivery method in 24 patients. Aleinikov A, et al. **J Can Dent Assoc** 1996 Apr;62(4):324–7
Pemphigoid and pemphigus foliaceus successfully treated with topical corticosteroids. Muramatsu T, et al. **J Dermatol** 1996 Oct;23(10):683–8
Phimosis: is circumcision necessary? Dewan PA, et al. **J Paediatr Child Health** 1996 Aug;32(4):285–9 (41 ref.)
Effects of topical corticosteroids after photorefractive keratectomy. Chatterjee A, et al. **J Refract Surg** 1997 Aug; 13(5 Suppl):S454–5
Effects of a combined use of steroidal and nonsteroidal anti–inflammatory drugs on E. coli endotoxin–induced uveitis in pigmented rabbits. Ogawa T, et al. **Jpn J Ophthalmol** 1995;39(4):353–9
Budesonide in inflammatory bowel disease. Lamers CB, et al. **Neth J Med** 1996 Feb;48(2):60–3 (16 ref.)
Treatment of periocular capillary hemangioma with topical clobetasol propionate. Cruz OA, et al. **Ophthalmology** 1995 Dec;102(12):2012–5
Efficacy of topical retinoic acid compared with topical fluocinolone acetonide in the treatment of oral lichen planus. Buajeeb W, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):21–5
The efficacy of treatment with triamcinolone acetonide in calcinosis cutis following extravasation of calcium gluconate: a preliminary study. Ahn SK, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):103–9
Treatment of childhood vulvar lichen sclerosus with potent topical corticosteroid. Fischer G, et al. **Pediatr Dermatol** 1997 May–Jun;14(3):235–8
A reappraisal of topical steroid potency. Hepburn DJ, et al. **Pediatr Dermatol** 1996 May–Jun;13(3):239–45 (64 ref.)
Effectiveness of budesonide aerosol in ventilator–dependent preterm babies: a preliminary report. Arnon S, et al. **Pediatr Pulmonol** 1996 Apr;21(4):231–5
Salmeterol tachyphylaxis in steroid treated asthmatic subjects. Booth H, et al. **Thorax** 1996 Nov;51(11):1100–4
Local immunosuppression with budesonide after liver transplantation in the rat: a preliminary histomorphological analysis. Weber T, et al. **Transplantation** 1997 Sep 15; 64(5):705–8
[A case for diagnosis: erosive pustular dermatosis of the scalp] Loche F, et al. **Ann Dermatol Venereol** 1995; 122(11–12):799–800 **(Fre)**
[Anti–inflammatory and immunosuppressive effect of glucocorticoids. What are the basic molecular mechanisms?] Petzoldt D, et al. **Hautarzt** 1996 Feb; 47(2):166–8 **(Ger)**
[Effects of topical corticosteroids on subepithelial haze after excimer laser corneal surgery—objective and quantitative method for evaluating haze] Soya K, et al. **Nippon Ganka Gakkai Zasshi** 1997 Feb;101(2):152–7 (Eng. Abstr.) **(Jpn)**
[Fluticasone propionate—a new name common in asthma and rhinitis] Ulmeanu R, et al. **Pneumoftiziologia** 1997 Jan–Mar; 46(1):63–4 (8 ref.) **(Rum)**

TOXICITY

The effects of topical nasal steroids on rat respiratory mucosa in vivo, with special reference to benzalkonium chloride. Berg OH, et al. **Allergy** 1997 Jun;52(6):627–32

GLUCOKINASE

ANALYSIS

Hexokinase and glucokinase activity in cross–linked and permeabilized pancreatic islets. Vanhoutte C, et al. **Int J Biochem Cell Biol** 1996 Oct;28(10):1117–22

ANTAGONISTS & INHIBITORS

Effect of a glucokinase inhibitor on energy production and insulin release in pancreatic islets. Sweet IR, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E606–25
Apparent starvation–induced repression of pancreatic islet glucokinase. Gasa R, et al. **Biochem Mol Med** 1995 Dec; 56(2):99–103
The regulatory protein of glucokinase. van Schaftingen E, et al. **Biochem Soc Trans** 1997 Feb;25(1):136–40 (41 ref.)
Glucosamine–induced inhibition of liver glucokinase impairs the ability of hyperglycemia to suppress endogenous glucose production. Barzilai N, et al. **Diabetes** 1996 Oct; 45(10):1329–35
Effect of mutations on the sensitivity of human beta–cell glucokinase to liver regulatory protein. Veiga–da–Cunha M, et al. **Diabetologia** 1996 Oct;39(10):1173–9
Does regulatory protein play a role in glucokinase localization? Reitz FB, et al. **Horm Metab Res** 1997 Jun; 29(6):317–21

BIOSYNTHESIS

Expression of human hepatic glucokinase in transgenic mice liver results in decreased glucose levels and reduced body weight. Hariharan N, et al. **Diabetes** 1997 Jan;46(1):11–6
Colocalization of glucagon–like peptide–1 (GLP–1) receptors, glucose transporter GLUT–2, and glucokinase mRNAs in rat hypothalamic cells: evidence for a role of GLP–1 receptor agonists as an inhibitory signal for food and water intake. Navarro M, et al. **J Neurochem** 1996 Nov;67(5):1982–91
Modulation of glucose responsiveness of insulinoma beta–cells by graded overexpression of glucokinase. Wang H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4372–7

CHEMISTRY

Structural instability of mutant beta–cell glucokinase: implications for the molecular pathogenesis of maturity–onset diabetes of the young (type–2). Kesavan P, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):57–63
Effect of mutations on the sensitivity of human beta–cell glucokinase to liver regulatory protein. Veiga–da–Cunha M, et al. **Diabetologia** 1996 Oct;39(10):1173–9
Cloning and biochemical characterisation of an Aspergillus niger glucokinase. Evidence for the presence of separate glucokinase and hexokinase enzymes. Panneman H, et al. **Eur J Biochem** 1996 Sep 15;240(3):518–25

DEFICIENCY

Diabetes complications in NIDDM kindreds linked to the MODY3 locus on chromosome 12q. Velho G, et al. **Diabetes Care** 1996 Sep;19(9):915–9
Impaired hepatic glycogen synthesis in glucokinase–deficient (MODY–2) subjects. Velho G, et al. **J Clin Invest** 1996 Oct 15;98(8):1755–61

GENETICS

Effect of biotin on glucokinase activity, mRNA expression and insulin release in cultured beta–cells. Borboni P, et al. **Acta Diabetol** 1996 Jul;33(2):154–8
Analysis of the pancreatic beta cell in the mouse with targeted disruption of the pancreatic beta cell–specific glucokinase gene. Aizawa T, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):460–5
Structural instability of mutant beta–cell glucokinase: implications for the molecular pathogenesis of maturity–onset diabetes of the young (type–2). Kesavan P, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):57–63
Effects of altered glucokinase gene copy number on blood glucose homoeostasis. Niswender KD, et al. **Biochem Soc Trans** 1997 Feb;25(1):113–7 (34 ref.)
Glucokinase gene variants in Chinese subjects with the common form of NIDDM. Xiang K, et al. **Chin Med J (Engl)** 1996 Nov;109(11):859–63
Glucokinase and MODY: from the gene to the disease. Froguel P. **Diabet Med** 1996 Sep;13(9 Suppl 6):S96–7 (17 ref.)
Characteristics of insulin release in healthy subjects and in subjects with a glucokinase (Glu 256 Lys) Mutation. Grill V, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S37–9
Homozygosity for a common polymorphism in the islet–specific promoter of the glucokinase gene is associated with a reduced early insulin response to oral glucose in pregnant women. Zaidi FK, et al. **Diabet Med** 1997 Mar; 14(3):228–34
Novel insulinoma cell lines produced by iterative engineering of GLUT2, glucokinase, and human insulin expression. Clark SA, et al. **Diabetes** 1997 Jun;46(6):958–67
Diagnostic heterogeneity of diabetes in lean young adults: classification based on immunological and genetic parameters. Dussoix P, et al. **Diabetes** 1997 Apr; 46(4):622–31
Abnormal regulation of hepatic glucose output in maturity–onset diabetes of the young caused by a specific mutation of the glucokinase gene. Tappy L, et al. **Diabetes** 1997 Feb;46(2):204–8
PDX–1 induces insulin and glucokinase gene expressions in alphaTC1 clone 6 cells in the presence of betacellulin. Watada H, et al. **Diabetes** 1996 Dec;45(12):1826–31
The human glucokinase gene beta–cell–type promoter: an essential role of insulin promoter factor 1/PDX–1 in its activation in HIT–T15 cells. Watada H, et al. **Diabetes** 1996 Nov;45(11):1478–88
A new missense mutation in the glucokinase gene in an Italian Mody family [letter] Bertini C, et al. **Diabetologia** 1996 Nov;39(11):1413–4
High prevalence of a missense mutation of the glucokinase gene in gestational diabetic patients due to a founder–effect in a local population. Saker PJ, et al. **Diabetologia** 1996 Nov;39(11):1325–8
Identification of 14 new glucokinase mutations and description of the clinical profile of 42 MODY–2 families. Velho G, et al. **Diabetologia** 1997 Feb;40(2):217–24
Cloning and biochemical characterisation of an Aspergillus niger glucokinase. Evidence for the presence of separate glucokinase and hexokinase enzymes. Panneman H, et al. **Eur J Biochem** 1996 Sep 15;240(3):518–25
A novel plasmid vector that uses the glucose kinase gene (glkA) for the positive selection of stable gene disruptants in Streptomyces. van Wezel GP, et al. **Gene** 1996 Dec 5; 182(1–2):229–30
Symposium on gene abnormalities in medical diseases. 2. Genetic defects and diabetes mellitus–defects of glucokinase gene and mitochondrial gene in diabetic patients. Oka Y. **Intern Med** 1997 Feb;36(2):150–1
Molecular characterization of glucokinase from Escherichia

coli K-12. Meyer D, et al. **J Bacteriol** 1997 Feb; 179(4):1298-306

Liver-specific enhancer of the glucokinase gene. Iynedjian PB, et al. **J Biol Chem** 1996 Nov 15;271(46):29113-20

Effects of increased glucokinase gene copy number on glucose homeostasis and hepatic glucose metabolism. Niswender KD, et al. **J Biol Chem** 1997 Sep 5; 272(36):22570-5

Cell-specific expression and regulation of a glucokinase gene locus transgene. Niswender KD, et al. **J Biol Chem** 1997 Sep 5;272(36):22564-9

Studies of the impact of a liver glucokinase promoter variant on glucose tolerance and insulin sensitivity index. Urhammer SA, et al. **J Clin Endocrinol Metab** 1997 Jun; 82(6):1786-9

Development of non-insulin-dependent diabetes mellitus in the double knockout mice with disruption of insulin receptor substrate-1 and beta cell glucokinase genes. Genetic reconstitution of diabetes as a polygenic disease. Terauchi Y, et al. **J Clin Invest** 1997 Mar 1;99(5):861-6

Effects of sodium butyrate on glucose transporter and glucose-phosphorylating enzyme gene expression in RINm5F insulinoma cells. Tiedge M, et al. **J Mol Endocrinol** 1996 Aug;17(1):19-26

Co-localization of the ketohexokinase and glucokinase regulator genes to a 500-kb region of chromosome 2p23. Hayward BE, et al. **Mamm Genome** 1996 Jun;7(6):454-8

Quantitative analysis of pancreatic glucokinase gene expression in cultured beta cells by competitive polymerase chain reaction. Borboni P, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):175-81

Effects of triiodothyronine and retinoic acid on glucokinase gene expression in neonatal rat hepatocytes. Decaux JF, et al. **Mol Cell Endocrinol** 1997 Jun 20;130(1-2):61-7

Characterization of the Pal motifs in the upstream glucokinase promoter: binding of a cell type-specific protein complex correlates with transcriptional activation. Moates JM, et al. **Mol Endocrinol** 1996 Jun;10(6):723-31

[Diseases in the field of internal medicine and gene abnormalities. 3. Gene abnormalities and diabetes mellitus--glucokinase gene and mitochondrial gene abnormalities] Oka Y. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1503-7 (16 ref.) **(Jpn)**

METABOLISM

Effect of biotin on glucokinase activity, mRNA expression and insulin release in cultured beta-cells. Borboni P, et al. **Acta Diabetol** 1996 Jul;33(2):154-8

Involvement of glucokinase translocation in the mechanism by which resorcinol inhibits glycolysis in hepatocytes. Agius L. **Biochem J** 1997 Aug 1;325 (Pt 3):667-73

Arterial oxygen partial pressures reduce the insulin-dependent induction of the perivenously located glucokinase in rat hepatocyte cultures: mimicry of arterial oxygen pressures by H2O2. Kietzmann T, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):17-20

Investigation on the mechanism by which fructose, hexitols and other compounds regulate the translocation of glucokinase in rat hepatocytes. Niculescu L, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):239-46

Binding and translocation of glucokinase in hepatocytes. Agius L, et al. **Biochem Soc Trans** 1997 Feb;25(1):145-50 (28 ref.)

Bridging the gap between glucose phosphorylation and glycogen synthesis in the liver. Guinovart JJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):157-60 (21 ref.)

Effects of altered glucokinase gene copy number on blood glucose homoeostasis. Niswender KD, et al. **Biochem Soc Trans** 1997 Feb;25(1):113-7 (34 ref.)

INS-1 cells as a model for studying the role of pancreatic glucose-6-phosphatase in glucokinase dependent glucose-mediated insulin secretion. Watkins SL, et al. **Biochem Soc Trans** 1997 Feb;25(1):71S

Modulation of human glucokinase intrinsic activity by SH reagents mirrors post-translational regulation of enzyme activity. Tiedge M, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):175-90

Glucokinase regulatory protein may interact with glucokinase in the hepatocyte nucleus. Brown KS, et al. **Diabetes** 1997 Feb;46(2):179-86

Changes in pancreatic islet glucokinase and hexokinase activities with increasing age, obesity, and the onset of diabetes. Cockburn BN, et al. **Diabetes** 1997 Sep; 46(9):1434-9

Heterologous expression and characterization of rat liver glucokinase regulatory protein. Mookhtiar KA, et al. **Diabetes** 1996 Dec;45(12):1670-7

Differential requirement of the yeast sugar kinases for sugar sensing in establishing the catabolite-repressed state. De Winde JH, et al. **Eur J Biochem** 1996 Oct 15;241(2):633-43

Co-localization of glucokinase with actin filaments. Murata T, et al. **FEBS Lett** 1997 Apr 7;406(1-2):109-13

Overexpression of either liver type or pancreatic beta cell type glucokinase via recombinant adenovirus enhances glucose oxidation in isolated rat hepatocytes. Takeuchi H, et al. **FEBS Lett** 1996 Sep 9;393(1):60-4

Gene expression of glucokinase regulatory protein in regenerating rat liver. Rosa JL, et al. **Hepatology** 1997 Feb; 25(2):324-8

Molecular characterization of glucokinase from Escherichia coli K-12. Meyer D, et al. **J Bacteriol** 1997 Feb; 179(4):1298-306

Evidence for a role of glucose-induced translocation of glucokinase in the control of hepatic glycogen synthesis. Agius L, et al. **J Biol Chem** 1996 Nov 29;271(48):30479-86

Interleukin-1 reduces the glycolytic utilization of glucose by pancreatic islets and reduces glucokinase mRNA content and protein synthesis by a nitric oxide-dependent mechanism. Ma Z, et al. **J Biol Chem** 1997 Jul 11; 272(28):17827-35

Expression of glucokinase in glucose-unresponsive human fetal pancreatic islet-like cell clusters. Tu J, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):943-8

Reversible translocation of glucokinase between the nucleus and the cytoplasm in rat hepatocytes. Toyoda Y, et al. **Jpn J Physiol** 1997;47 Suppl 1:S43-6

Characterization of the Pal motifs in the upstream glucokinase promoter: binding of a cell type-specific protein complex correlates with transcriptional activation. Moates JM, et al. **Mol Endocrinol** 1996 Jun;10(6):723-31

Role of glucokinase and glucose-6 phosphatase in the nutritional regulation of endogenous glucose production. Mithieux G. **Reprod Nutr Dev** 1996;36(4):357-62 (23 ref.)

Carbon metabolism and its regulation in Streptomyces and other high GC gram-positive bacteria. Paulsen IT. **Res Microbiol** 1996 Jul-Sep;147(6-7):535-41 (42 ref.)

[Control of the rate of the glucokinase reaction by its elementary stages] Nartsissov IaR, et al. **Biokhimiia** 1996 Jul;61(7):1279-84 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Is GLUT2 required for glucose sensing? Schuit FC. **Diabetologia** 1997 Jan;40(1):104-11 (67 ref.)

Glucose 6-phosphate produced by glucokinase, but not hexokinase I, promotes the activation of hepatic glycogen synthase. Seoane J, et al. **J Biol Chem** 1996 Sep 27; 271(39):23756-60

GLUCONATES

ADMINISTRATION & DOSAGE

Zinc lozenges reduce the duration of common cold symptoms. **Nutr Rev** 1997 Mar;55(3):82-5 (13 ref.)

CHEMISTRY

Tastes, structure and solution properties of D-glucono-1,5-lactone. Parke SA, et al. **Chem Senses** 1997 Feb;22(1):53-65

Computer simulation of crystal-liquid interface: application to wettability of solids. Anwar J, et al. **Pharm Res** 1996 Jul;13(7):1003-7

Automated docking of monosaccharide substrates and analogues and methyl alpha-acarviosinide in the glucoamylase active site. Coutinho PM, et al. **Proteins** 1997 Feb;27(2):235-48

METABOLISM

A mutation affecting gluconate catabolism in Escherichia coli: the locus for the main high affinity transport. De Rekarte UD, et al. **Acta Cient Venez** 1994;45(2):96-101

The activity of the gluconate-H+ symporter of Schizosaccharomyces pombe cells is down-regulated by D-glucose and exogenous cAMP. Caspari T, et al. **FEBS Lett** 1996 Oct 21;395(2-3):272-6

Mechanism of gluconate synthesis in Rhizobium meliloti by using in vivo NMR. Portais JC, et al. **FEBS Lett** 1997 Aug 4;412(3):485-9

Molecular genetic characterization of the Escherichia coli gntT gene of GntI, the main system for gluconate metabolism. Porco A, et al. **J Bacteriol** 1997 Mar; 179(5):1584-90

The metabolism of gluconate in Escherichia coli. The subsidiary system and the nature of the gntS gene. Istúriz T, et al. **J Basic Microbiol** 1997;37(2):105-14

Gene organization and transcriptional regulation of the gntRKU operon involved in gluconate uptake and catabolism of Escherichia coli. Izu H, et al. **J Mol Biol** 1997 Apr 11;267(4):778-93

Catabolism of D-glucose by Pseudomonas putida U occurs via extracellular transformation into D-gluconic acid and induction of a specific gluconate transport system. Schleissner C, et al. **Microbiology** 1997 May;143 (Pt 5):1595-603

Catabolite repression by glucose 6-phosphate, gluconate and lactose in Escherichia coli. Hogema BM, et al. **Mol Microbiol** 1997 May;24(4):857-67

PHARMACOKINETICS

Intestinal calcium absorption from different calcium preparations: influence of anion and solubility. Hansen C, et al. **Osteoporos Int** 1996;6(5):386-93

PHARMACOLOGY

N1-alkyl-D-gluconamidines: are they 'perfect' mimics of the first transition state of glucosidase action? Legler G, et al. **Carbohydr Res** 1996 Oct 4;292:103-15

The effect of delta-gluconolactone, an oxidised analogue of glucose, on the nonenzymatic glycation of human and rat haemoglobin. Lindsay RM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):239-47

Phospho-beta-glucosidase from Fusobacterium mortiferum: purification, cloning, and inactivation by 6-phosphoglucono-delta-lactone. Thompson J, et al. **J Bacteriol** 1997 Mar;179(5):1636-45

Reversible inhibition of IK, IAHP, Ih and ICa currents by internally applied gluconate in rat hippocampal pyramidal neurones. Velumian AA, et al. **Pflugers Arch** 1997 Jan; 433(3):343-50

THERAPEUTIC USE

Zinc gluconate lozenges for treating the common cold [letter; comment] Barton JC, et al. **Ann Intern Med** 1997 May 1; 126(9):738-9. Comment on: Ann Intern Med 1996 Jul 15;125(2):81-8.

Zinc gluconate lozenges for treating the common cold [letter; comment] Farr BM, et al. **Ann Intern Med** 1997 May 1; 126(9):738; discussion 739. Comment on: Ann Intern Med 1996 Jul 15;125(2):81-8.

Zinc gluconate lozenges for treating the common cold [letter] Shumate MJ. **Ann Intern Med** 1997 May 1;126(9):738; discussion 739

Zinc lozenges as cure for common colds. Eby GA. **Ann Pharmacother** 1996 Nov;30(11):1336-8 (28 ref.)

Protective effect of zinc gluconate on chemically induced gastric ulcer. Bandyopadhyay B, et al. **Indian J Med Res** 1997 Jul;106:27-32

Zinc: the missing link? **J Am Optom Assoc** 1997 Jul;68(7):463

A cure for the common cold? [see comments] Stevermer JJ, et al. **J Fam Pract** 1996 Oct;43(4):346. Comment in: J Fam Pract 1996 Dec;43(6):529.

Zinc for the common cold. **Med Lett Drugs Ther** 1997 Jan 31;39(993):9-10

TOXICITY

Toxicology of cupric salts on honeybees. V. Gluconate and sulfate action on gut alkaline and acid phosphatases. Bounias M, et al. **Ecotoxicol Environ Saf** 1996 Oct; 35(1):67-76

GLUCONEOGENESIS

Renal gluconeogenesis and blood flow during endotoxic shock. Maitra SR, et al. **Acad Emerg Med** 1996 Nov; 3(11):1006-10

Glycerol carbon contributes to hepatic glucose production during the first eight hours in healthy term infants. Sunehag A, et al. **Acta Paediatr** 1996 Nov;85(11):1339-43

Glucose production and gluconeogenesis in adults with uncomplicated falciparum malaria. Dekker E, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E1059-64

Altered fluxes responsible for reduced hepatic glucose production and gluconeogenesis by exogenous glucose in rats. Hellerstein MK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E163-72

Use of labeling pattern of liver glutamate to calculate rates of citric acid cycle and gluconeogenesis. Large V, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E51-8

Excessive NO production dose not account for the inhibition of hepatic gluconeogenesis in endotoxemia. Ou J, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G621-8

Increased net hepatic glucose output from gluconeogenic precursors after high-sucrose diet feeding in male rats. Pagliassotti MJ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R526-31

Regulation of gluconeogenesis by glutamine in normal postabsorptive humans. Perriello G, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E437-45

Hormonal regulation of hepatic gluconeogenesis: influence of age and training. Podolin DA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R365-72

Glucose production, recycling, Cori cycle, and gluconeogenesis in humans: relationship to serum cortisol. Tayek JA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E476-84

Glucose production, recycling, and gluconeogenesis in normals and diabetics: a mass isotopomer [U-13C]glucose study. Tayek JA, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E709-17

Impairment by interleukin 1 beta and tumour necrosis factor alpha of the glucagon-induced increase in phosphoenolpyruvate carboxykinase gene expression and gluconeogenesis in cultured rat hepatocytes [published erratum appears in Biochem J 1997 Feb 1;321(Pt 3):903] Christ B, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):161-6

Autoregulation of endogenous glucose production in man. Tappy L, et al. **Biochem Soc Trans** 1997 Feb;25(1):11-3 (22 ref.)

Glucogenesis in an insect, Manduca sexta L., estimated from the 13C isotopomer distribution in trehalose synthesized from [1,3-13C2]glycerol. Thompson SN. **Biochim Biophys Acta** 1997 Jul 19;1336(1):110-6

Hormonal and dietary regulation of lysosomal cysteine proteinases in liver under gluconeogenesis conditions. Inubushi T, et al. **Biol Chem** 1996 Jul-Aug;377(7-8):539-42

Glucose turnover and gluconeogenesis during pregnancy in women with and without insulin-dependent diabetes mellitus. Chiasson JL, et al. **Clin Invest Med** 1997 Jun; 20(3):140-51

A comparison of the effects of selective increases in peripheral or portal insulin on hepatic glucose production in the conscious dog. Sindelar DK, et al. **Diabetes** 1996 Nov;45(11):1594-604

GLUCONEOGENESIS

Endogenous glucose production, gluconeogenesis and liver glycogen concentration in obese non-diabetic patients. Müller C, et al. **Diabetologia** 1997 Apr;40(4):463–8

Measurement of gluconeogenesis and pyruvate recycling in the rat liver: a simple analysis of glucose and glutamate isotopomers during metabolism of [1,2,3-(13)C3]propionate. Jones JG, et al. **FEBS Lett** 1997 Jul 21;412(1):131–7

Mutants of Saccharomyces cerevisiae with defects in acetate metabolism: isolation and characterization of Acn- mutants. McCammon MT. **Genetics** 199ɔ Sep;144(1):57–69

Glucose homeostasis in children with falciparum malaria: precursor supply limits gluconeogenesis and glucose production. Dekker E, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2514–21

Effects of hepatic glycogen content on hepatic insulin action in humans: alteration in the relative contributions of glycogenolysis and gluconeogenesis to endogenous glucose production. Wise S, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1828–33

Hepatic gluconeogenic fluxes and glycogen turnover during fasting in humans. A stable isotope study. Hellerstein MK, et al. **J Clin Invest** 1997 Sep 1;100(5):1305–19

Disorders of gluconeogenesis. van den Berghe G. **J Inherit Metab Dis** 1996;19(4):470–7 (26 ref.)

Training enhanced hepatic gluconeogenesis: the importance for glucose homeostasis during exercise. Donovan CM, et al. **Med Sci Sports Exerc** 1997 May;29(5):628–34 (58 ref.)

Portal adrenergic blockade does not inhibit the gluconeogenic effects of circulating catecholamines on the liver. Chu CA, et al. **Metabolism** 1997 Apr;46(4):458–65

Enzymes of carbohydrate metabolism in young and adult rats fed diets differing in fat and carbohydrate. Brooks SP, et al. **Mol Cell Biochem** 1996 Jun 7;159(1):55–63

Glucose derepression of gluconeogenic enzymes in Saccharomyces cerevisiae correlates with phosphorylation of the gene activator Cat8p. Randez-Gil F, et al. **Mol Cell Biol** 1997 May;17(5):2502–10

Relationship between gluconeogenesis and phosphoenergetics in rat liver assessed by in vivo 13C and 31P NMR spectroscopy. Morikawa S, et al. **NMR Biomed** 1997 Jan;10(1):18–24

Hepatic gluconeogenesis and the activity of PDH in individual tissues of GTG-obese mice following adrenalectomy. Blair SC, et al. **Obes Res** 1996 Jul; 4(4):367–75

Extremely preterm infants (< 28 weeks) are capable of gluconeogenesis from glycerol on their first day of life. Sunehag A, et al. **Pediatr Res** 1996 Oct;40(4):553–7

Gluconeogenesis during hypoxia in vascular smooth muscle studied by ^{13}C-NMR. Hardin CD, et al. **Physiol Res** 1995; 44(4):257–60

Role of glucokinase and glucose-6 phosphatase in the nutritional regulation of endogenous glucose production. Mithieux G. **Reprod Nutr Dev** 1996;36(4):357–62 (23 ref.)

DRUG EFFECTS

Diadenosine polyphosphate-stimulated gluconeogenesis in isolated rat proximal tubules. Edgecombe M, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):451–6

In vitro and in vivo suppression of gluconeogenesis by inhibition of pyruvate carboxylase. Bahl JJ, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):67–74

Troglitazone inhibits fatty acid oxidation and esterification, and gluconeogenesis in isolated hepatocytes from starved rats. Fulgencio JP, et al. **Diabetes** 1996 Nov;45(11):1556–62

Effects of metformin on lactate uptake and gluconeogenesis in the perfused rat liver. Radziuk J, et al. **Diabetes** 1997 Sep;46(9):1406–13

Modulation of epinephrine-stimulated gluconeogenesis by insulin in hepatocytes isolated from genetically obese (fa/fa) Zucker rats. Sánchez-Gutierrez JC, et al. **Endocrinology** 1997 Jun;138(6):2443–8

Effects of fatty acids and hormones on fatty acid metabolism and gluconeogenesis in bovine hepatocytes. Cadórniga-Valiño C, et al. **J Dairy Sci** 1997 Apr; 80(4):646–56

Vitamin A regulates genes involved in hepatic gluconeogenesis in mice: phosphoenolpyruvate carboxykinase, fructose-1,6-bisphosphatase and 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Shin DJ, et al. **J Nutr** 1997 Jul;127(7):1274–8

Inhibition of gluconeogenesis in cultured chicken embryo hepatocytes by Fusarium metabolites. Wu W, et al. **Nat Toxins** 1997;5(2):80–5

Studies on pyrazinoylguanidine. 4. Upregulation of phosphodiesterase activity in rat adipose tissue and downregulation of gluconeogenesis and adenosine 3',5'-monophosphate concentrations in perfused rat liver. A-Rahim YI, et al. **Pharmacology** 1996 Oct;53(4):211–8

Hepatic glucose production from L-alanine is absent in perfused liver of diabetic rats. Ferraz M, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):147–55

GENETICS

The promoter regulatory regions of the genes for the cytosolic form of phosphoenolpyruvate carboxykinase (GTP) from the chicken and the rat have different species-specific roles in gluconeogenesis. Savon SP, et al. **J Nutr** 1997 Feb;127(2):276–85

[Regulation of the expression of hepatic genes coding the enzymes of glycolysis and gluconeogenesis] Girard J. **Journ Annu Diabetol Hotel Dieu** 1996;:37–53 (91 ref.) **(Fre)**

PHYSIOLOGY

Role of fat-derived substrates in the regulation of gluconeogenesis during fasting. Féry F, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E822–30

Tracing gluconeogenesis with deuterated water: measurement of low deuterium enrichments on carbons 6 and 2 of glucose. Hazey JW, et al. **Anal Biochem** 1997 May 15;248(1):158–67

Absence of short-term regulation over gluconeogenesis by glucose in the insect Manduca sexta L. Thompson SN. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):702–6

Glucose metabolism during exercise in man: the role of insulin and glucagon in the regulation of hepatic glucose production and gluconeogenesis. Lavoie C, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):26–35

Effects of infused glucose on glycogen metabolism in healthy humans. Tounian P, et al. **Clin Physiol** 1996 Jul; 16(4):403–16

Gluconeogenesis and glucose replacement rate during long-term fasting of Japanese quails. Sartori DR, et al. **Comp Biochem Physiol A Physiol** 1996 Oct;115(2):121–5

Evidence of increased systemic glucose production and gluconeogenesis in an early stage of NIDDM. Perriello G, et al. **Diabetes** 1997 Jun;46(6):1010–6

Measurement of glucose turnover—implications for the study of inborn errors of metabolism. Halliday D, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S35–8 (24 ref.)

Influences of body weight, body composition, and substrate oxidation rate on resting postabsorptive glucose production and gluconeogenesis. Giusti V, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):842–7

Whole blood analysis of gluconeogenic amino acids for estimation of de novo gluconeogenesis using pre-column o-phthalaldehyde derivatization and high-performance liquid chromatography. Venkatakrishnan A, et al. **J Chromatogr B Biomed Appl** 1996 Feb 9;676(1):1–6

Gluconeogenesis in the livers of diet-restricted rats—a 13C nuclear magnetic resonance study. Liu KJ, et al. **JPEN J Parenter Enteral Nutr** 1996 May-Jun;20(3):178–81

Alterations in key gluconeogenic regulators with age and endurance training. Horn DB, et al. **Metabolism** 1997 Apr; 46(4):414–9

Gluconeogenesis and the peroxisome. Masters C. **Mol Cell Biochem** 1997 Jan;166(1-2):159–68 (30 ref.)

Glucose production and gluconeogenesis are negatively related to body weight in mechanically ventilated, very low birth weight neonates. Keshen T, et al. **Pediatr Res** 1997 Jan;41(1):132–8

Evolution of carbohydrate metabolic pathways. Romano AH, et al. **Res Microbiol** 1996 Jul-Sep;147(6-7):448–55 (43 ref.)

GLUCOSACCHARIC ACID see **GLUCARIC ACID**

GLUCOSAMINE

ANALOGS & DERIVATIVES

Pharmacokinetics of miglitol. Absorption, distribution, metabolism, and excretion following administration to rats, dogs, and man. Ahr HJ, et al. **Arzneimittelforschung** 1997 Jun;47(6):734–45

Study of the effect of miglitol on the pharmacokinetics and pharmacodynamics of warfarin in healthy males. Schall R, et al. **Arzneimittelforschung** 1996 Jan;46(1):41–6

Accumulation of glucosaminyl(acyl)phosphatidylinositol in an S3 HeLa subline expressing normal dolicholphosphomannose synthase activity. Sevlever D, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):837–44

Dihydropyrazine derivatives as a new type of DNA strand breaking agent. Yamaguchi T, et al. **Biol Pharm Bull** 1996 Oct;19(10):1261–5

Miglitol (Bay m 1099) has no extraintestinal effects on glucose control in healthy volunteers. Sels JP, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):503–6

In vitro study of the effect of miglitol on carbohydrate digestion and intestinal metabolism in normal and non-insulin-dependent diabetic rats. Tormo MA, et al. **Can J Physiol Pharmacol** 1996 Nov;74(11):1196–203

N-trichloroethoxycarbonyl-glucosamine derivatives as glycosyl donors. Dullenkopf W, et al. **Carbohydr Res** 1996 Dec 24;296:135–47

Rate assay of N-acetyl-beta-D-hexosaminidase with 4-nitrophenyl N-acetyl-beta-D-glucosaminide as an artificial substrate. Shibata H, et al. **Clin Chim Acta** 1996 Jul 15;251(1):53–64

Generalized bullous morphoea. Efficacy of salazopyrin [letter] Micalizzi C, et al. **Clin Exp Dermatol** 1996 May; 21(3):246–7

Does suppression of postprandial blood glucose excursions by the alpha-glucosidase inhibitor miglitol improve insulin sensitivity in diet-treated type II diabetic patients? Johnson AB, et al. **Diabetes Care** 1996 Jun;19(6):559–63

The efficacy and safety of miglitol therapy compared with glibenclamide in patients with NIDDM inadequately controlled by diet alone. Segal P, et al. **Diabetes Care** 1997 May;20(5):687–91

Inhibition of human HT-29 colon carcinoma cell adhesion by a 4-fluoro-glucosamine analogue. Woynarowska B, et al. **Glycoconj J** 1996 Aug;13(4):663–74

Determination of amiprilose in human plasma by high-performance liquid chromatography with fluorimetric detection. Wu ST, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):149–56

[Salazopyrine and male fertility] Marmor D. **Ann Gastroenterol Hepatol (Paris)** 1996 Nov-Dec; 31(6):349–53 (59 ref.) **(Fre)**

[Pericarditis in chronic inflammatory bowel disease: underlying disease or side effects of therapy? Clinical problem solving] Kupferschmidt H, et al. **Schweiz Med Wochenschr** 1996 Dec 14;126(50):2184–90 (74 ref.) **(Ger)**

ANALYSIS

Quantitative determination of amino acid levels in neutral and glucosamine-containing carbohydrate polymers. Palace GP, et al. **Anal Biochem** 1997 Jan 15;244(2):393–403

Pulsed electrochemical detection of nonchromophoric compounds following capillary electrophoresis. LaCourse WR, et al. **Electrophoresis** 1996 Feb;17(2):310–8

CHEMICAL SYNTHESIS

N-trichloroethoxycarbonyl-glucosamine derivatives as glycosyl donors. Dullenkopf W, et al. **Carbohydr Res** 1996 Dec 24;296:135–47

CHEMISTRY

A new entry to glycosylamines. Merchán FL, et al. **Glycoconj J** 1997 Jun;14(4):497–9

METABOLISM

Acylation of glucosaminyl phosphatidylinositol revisited. Palmitoyl-CoA dependent palmitoylation of the inositol residue of a synthetic dioctanoyl glucosaminyl phosphatidylinositol by hamster membranes permits efficient mannosylation of the glucosamine residue. Doerrler WT, et al. **J Biol Chem** 1996 Oct 25; 271(43):27031–8

PHARMACOLOGY

Hematologic, hemostatic, and biochemical effects in dogs receiving an oral chondroprotective agent for thirty days. McNamara PS, et al. **Am J Vet Res** 1996 Sep;57(9):1390–4

Effects of chitin and its derivatives on the proliferation and cytokine production of fibroblasts in vitro. Mori T, et al. **Biomaterials** 1997 Jul;18(13):947–51

Glucosamine-induced inhibition of liver glucokinase impairs the ability of hyperglycemia to suppress endogenous glucose production. Barzilai N, et al. **Diabetes** 1996 Oct; 45(10):1329–35

Activation of the hexosamine pathway by glucosamine in vivo induces insulin resistance in multiple insulin sensitive tissues. Virkamäki A, et al. **Endocrinology** 1997 Jun; 138(6):2501–7

Glucosamine for wound healing. McCarty MF. **Med Hypotheses** 1996 Oct;47(4):273–5

Glucosamine may retard atherogenesis by promoting endothelial production of heparan sulfate proteoglycans. McCarty MF. **Med Hypotheses** 1997 Mar;48(3):245–51 (94 ref.)

Effects of the amino sugars, glucosamine, mannosamine, or the fluorinated derivative 2-deoxy-fluoroglucose on the phosphatidyl inositol and glycosyl phosphatidyl inositol systems of Tetrahymena. Kovács P, et al. **Microbios** 1997; 89(359):91–104

PHYSIOLOGY

Role of the glucosamine pathway in fat-induced insulin resistance. Hawkins M, et al. **J Clin Invest** 1997 May 1; 99(9):2173–82

THERAPEUTIC USE

Conservative management of spinal osteoarthritis with glucosamine sulfate and chiropractic treatment. Gottlieb MS. **J Manipulative Physiol Ther** 1997 Jul-Aug; 20(6):400–14 (157 ref.)

Glucosamine for psoriasis? McCarty MF. **Med Hypotheses** 1997 May;48(5):437–41 (57 ref.)

Glucosamine for wound healing. McCarty MF. **Med Hypotheses** 1996 Oct;47(4):273–5

Glucosamine may retard atherogenesis by promoting endothelial production of heparan sulfate proteoglycans. McCarty MF. **Med Hypotheses** 1997 Mar;48(3):245–51 (94 ref.)

Glucosamine for osteoarthritis. **Med Lett Drugs Ther** 1997 Sep 26;39(1010):91–2

GLUCOSAMINE SYNTHETASE see **GLUCOSAMINEPHOSPHATE ISOMERASE (GLUTAMINE-FORMING)**

GLUCOSAMINEPHOSPHATE ISOMERASE (GLUTAMINE-FORMING)

ANALYSIS

UDP-N-acetylglucosamine transferase and glutamine: fructose 6-phosphate amidotransferase activities in insulin-sensitive tissues. Yki-Järvinen H, et al. **Diabetologia** 1997 Jan;40(1):76-81

ANTAGONISTS & INHIBITORS

Constrained search of conformational hyperspace of inactivators of glucosamine-6-phosphate synthase. Wojciechowski M, et al. **J Enzyme Inhib** 1996;10(1):17-26

CHEMISTRY

Characterization of L-glutamine:D-fructose-6-phosphate amidotransferase from an extreme thermophile Thermus thermophilus HB8. Badet-Denisot MA, et al. **Arch Biochem Biophys** 1997 Jan 1;337(1):129-36

Substrate binding is required for assembly of the active conformation of the catalytic site in Ntn amidotransferases: evidence from the 1.8 A crystal structure of the glutaminase domain of glucosamine 6-phosphate synthase [published erratum appears in Structure 1997 May 15;5(5):723] Isupov MN, et al. **Structure** 1996 Jul 15;4(7):801-10

DRUG EFFECTS

Inhibition of rabbit gastric glucosamine synthetase activity by Cu2+, Zn2+ and Se4+. Fujita T, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):203-8

Effect of 13-hydroperoxyoctadecadienoic acid on the glucosamine synthetase activity in rabbit gastric mucosa. Fujita T, et al. **Res Commun Mol Pathol Pharmacol** 1997 May;96(2):209-18

GENETICS

Cloning and partial characterization of the mouse glutamine:fructose-6-phosphate amidotransferase (GFAT) gene promoter. Sayeski PP, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1458-66

METABOLISM

Affinity labeling of Escherichia coli glucosamine-6-phosphate synthase with a fructose 6-phosphate analog--evidence for proximity between the N-terminal cysteine and the fructose-6-phosphate-binding site. Leriche C, et al. **Eur J Biochem** 1997 Apr 15; 245(2):418-22

GLUCOSAMINIDASE

BLOOD

Plasma methylumbelliferyl-tetra-N-acetyl-beta-d-chitotetraoside hydrolase as a parameter during treatment of gaucher patients [letter] Den Tandt WR, et al. **Biochem Mol Med** 1996 Feb;57(1):71-2

METABOLISM

Different calcium-dependent pathways control fertilisation-triggered glycoside release and the cortical contraction in ascidian eggs. McDougall A, et al. **Zygote** 1995 Aug;3(3):251-8

PHARMACOLOGY

[The structure of the connective-tissue framework of the skin regenerate in rats during the trypsin and ronidase stimulation of wound healing] Surakova TV, et al. **Morfologiia** 1997;111(2):76-9 (Eng. Abstr.) **(Rus)**

SECRETION

Conformation-activity correlations for chemotactic tripeptide analogs incorporating dialkyl residues with linear and cyclic alkyl sidechains at position 2. Prasad S, et al. **Int J Pept Protein Res** 1996 Oct;48(4):312-8

URINE

Iron overload and urinary lysosomal enzyme levels in beta-thalassaemia major. Michelakakis H, et al. **Eur J Pediatr** 1997 Aug;156(8):602-4

GLUCOSE

see related
BLOOD GLUCOSE
GLYCOSURIA
HYPERGLYCEMIA
HYPOGLYCEMIA

Diabetic rats prefer glucose-paired flavors over fructose-paired flavors. Ackroff K, et al. **Appetite** 1997 Feb; 28(1):73-83

Purification and biochemical characterization of a vacuolar serine endopeptidase induced by glucose starvation in maize roots. James F, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):283-92

Maintenance of the peroxisomal compartment in glucose-repressed and anaerobically grown Saccharomyces cerevisiae cells. Skoneczny M, et al. **Biochimie** 1996;78(2):95-102

Characterization of protein release through glucose-sensitive hydrogel membranes. Obaidat AA, et al. **Biomaterials** 1997 Jun;18(11):801-6

Effect of dimerization of the D-glucose analogue of muramyl dipeptide on stimulation of macrophage-like cells. Murata J, et al. **Carbohydr Res** 1997 Jan 2;297(2):127-33

Stabilization of dry membranes by mixtures of hydroxyethyl starch and glucose: the role of vitrification. Crowe JH, et al. **Cryobiology** 1997 Aug;35(1):20-30

Glycemic responses to exercise in IDDM after simple and complex carbohydrate supplementation. Soo K, et al. **Diabetes Care** 1996 Jun;19(6):575-9

Thiamine corrects delayed replication and decreases production of lactate and advanced glycation end-products in bovine retinal and human umbilical vein endothelial cells cultured under high glucose conditions [see comments] La Selva M, et al. **Diabetologia** 1996 Nov;39(11):1263-8. Comment in: Diabetologia 1997 Jun;40(6):741-2.

Increased activity of the insulin-like growth factor system in mesangial cells cultured in high glucose conditions. Relation to glucose-enhanced extracellular matrix production. Pugliese G, et al. **Diabetologia** 1996 Jul; 39(7):775-84

Insulin mediators in man: effects of glucose ingestion and insulin resistance. Shashkin PN, et al. **Diabetologia** 1997 May;40(5):557-63

Maternal and neonatal hyponatraemia: a comparison of Hartmanns solution with 5% dextrose for the delivery of oxytocin in labour. Higgins J, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1-2):47-8

The effect of ultrasound frame rate on perfluorocarbon-exposed sonicated dextrose albumin microbubble size and concentration when insonifying at different flow rates, transducer frequencies, and acoustic outputs. Porter TR, et al. **J Am Soc Echocardiogr** 1997 Jul-Aug;10(6):593-601

Interaction of diagnostic ultrasound with synthetic oligonucleotide-labeled perfluorocarbon-exposed sonicated dextrose albumin microbubbles. Porter TR, et al. **J Ultrasound Med** 1996 Aug;15(8):577-84

Evaluation of canine red blood cells stored in a saline, adenine, and glucose solution for 35 days. Wardrop KJ, et al. **J Vet Intern Med** 1997 Jan-Feb;11(1):5-8

Peritoneal transport characteristics with glucose polymer based dialysate. Ho-dac-Pannekeet MM, et al. **Kidney Int** 1996 Sep;50(3):979-86

Icodextrin instead of glucose during the daytime dwell in CCPD increases ultrafiltration and 24-h dialysate creatinine clearance. Posthuma N, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):550-3

Icodextrin plus glucose combinations for use in CAPD. Peers E. **Perit Dial Int** 1997;17 Suppl 2:S68-9

Future clinical research with icodextrin-containing solutions. Shockley TR, et al. **Perit Dial Int** 1997;17 Suppl 2:S70-4 (43 ref.)

Effects of dexfenfluramine on glucose drinking and glucose-conditioned flavour preferences in rats: taste versus post-ingestive conditioning. Yildiz O, et al. **Pharmacol Res** 1996 Jan;33(1):41-6

[Physico-chemical characterization and application for drug carrier of soybean-derived sterols and their glucosides-containing liposomes] Maitani Y. **Yakugaku Zasshi** 1996 Dec;116(12):901-10 (28 ref.) (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

Analgesia in newborns given oral glucose. Skogsdal Y, et al. **Acta Paediatr** 1997 Feb;86(2):217-20

A prospective randomized trial of two solutions for intrapartum amnioinfusion: effects on fetal electrolytes, osmolality, and acid-base status. Pressman EK, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):945-9

Effects of oral vs. i.v. glucose administration on splanchnic and extrasplanchnic O2 uptake and blood flow. Brundin T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E496-504

Islet amyloid polypeptide and insulin gene expression are regulated in parallel by glucose in vivo in rats. Mulder H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1008-14

Role of cholecystokinin in the anorexia produced by duodenal delivery of glucose in rats. Woltman T, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1521-8

Brain edema, hemorrhagic necrosis volume, and neurological status with rapid infusion of 0.45% saline or 5% dextrose in 0.9% saline after closed head trauma in rats. Gurevich B, et al. **Anesth Analg** 1997 Mar;84(3):554-9

Studies on the safety of glucose and paraben-containing neostigmine for intrathecal administration. Gurun MS, et al. **Anesth Analg** 1997 Aug;85(2):317-23

Neurologic symptoms after accidental administration of epidural glucose. Whiteley MH, et al. **Anesth Analg** 1997 Jan;84(1):216-7

Glucose level and myocardial recovery after warm arrest. Ning XH, et al. **Ann Thorac Surg** 1996 Dec;62(6):1825-9

The effect of intravenous loading with glucose on inorganic phosphorus and lipid phosphorus in the blood of patients with intracerebral haemorrhage. Pilarczyk M. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:107-9

The effect of social setting on response to a preloading manipulation in non-obese women and men. Kim JY, et al. **Appetite** 1996 Aug;27(1):25-40

Use of a physiologic oral glucose solution for screening for impaired glucose tolerance and non-insulin-dependent diabetes mellitus. Phillips WT, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):842-6

Maternal dietary glucose modifies phosphoenolpyruvate carboxykinase (PEPCK) gene expression in the kidney of newborn rats. Liu XJ, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):187-90

The effect of different glucose endovenous administrations on amylin and insulin blood concentration in healthy subjects. Testa I, et al. **Boll Soc Ital Biol Sper** 1996 Mar-Apr;72(3-4):103-8

Changes in the concentration of fructose in the blood of piglets of different ages after doses of fructose, fructose plus glucose, and sucrose. Bird PH, et al. **Br J Nutr** 1996 Sep;76(3):399-407

Inadvertent intra-articular injection of the wrong substance. Lanyon P, et al. **Br J Rheumatol** 1997 Jul;36(7):812-3

Intracarotid glucose selectively increases Fos-like immunoreactivity in paraventricular, ventromedial and dorsomedial nuclei neurons. Dunn-Meynell AA, et al. **Brain Res** 1997 Feb 14;748(1-2):100-6

Reduced renal sodium excretion in primary hypertensive patients after an oral glucose load. Gontijo JA, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1291-9

Efficacy of standard glucose-based and reduced-osmolarity maltodextrin-based oral rehydration solutions: effect of sugar malabsorption. el-Mougi M, et al. **Bull World Health Organ** 1996;74(5):471-7

Comparison of glucose 7.5% and 0.75% with or without phenylephrine for tetracaine spinal anaesthesia. Sumi M, et al. **Can J Anaesth** 1996 Nov;43(11):1138-43

Metabolic changes in elderly cancer patients after glucose ingestion. The role of tumor necrosis factor-alpha. Gambardella A, et al. **Cancer** 1997 Jan 1;79(1):177-84

Hyperglycemia-induced hyperinsulinemia acutely lowers plasma apolipoprotein B but not lipoprotein (a) in man. Riemens SC, et al. **Clin Chim Acta** 1997 May 28; 261(2):149-58

Effects of infused glucose on glycogen metabolism in healthy humans. Tounian P, et al. **Clin Physiol** 1996 Jul; 16(4):403-16

The glucose challenge test: different drink dilutions [letter] Davey R. **Diabet Med** 1996 Oct;13(10):917-8

Effects of chronically elevated glucose levels on the functional properties of rat pancreatic beta-cells. Ling Z, et al. **Diabetes** 1996 Dec;45(12):1774-82

Troglitazone attenuates high-glucose-induced abnormalities in relaxation and intracellular calcium in rat ventricular myocytes. Ren J, et al. **Diabetes** 1996 Dec;45(12):1822-5

A prevalent amino acid polymorphism at codon 98 in the hepatocyte nuclear factor-1alpha gene is associated with reduced serum C-peptide and insulin responses to an oral glucose challenge. Urhammer SA, et al. **Diabetes** 1997 May; 46(5):912-6

Nutritional regulation of circulating insulin-like growth factors (IGFs) and their binding proteins in the ovine fetus. Lee WH, et al. **Endocr J** 1997 Feb;44(1):163-73

Metabolic and hormonal responses during repeated bouts of brief and intense exercise: effects of pre-exercise glucose ingestion. Wouassi D, et al. **Eur J Appl Physiol** 1997; 76(3):197-202

Energy expenditure and substrates oxidative patterns, after glucose, fat or mixed load in normal weight subjects. Bobbioni-Harsch E, et al. **Eur J Clin Nutr** 1997 Jun; 51(6):370-4

Effects of glucose load and/or arginine on insulin and growth hormone secretion in hyperprolactinemia and obesity. Maccario M, et al. **Eur J Endocrinol** 1996 Aug; 135(2):205-10

Effects of glucose or insulin infusions on growth hormone secretion in male red deer. Webster JR, et al. **Gen Comp Endocrinol** 1996 Sep;103(3):257-63

Responses of somatostatin, beta-endorphin and dynorphin A to a glucose load in two groups of women with polycystic ovarian syndrome. Wu XK, et al. **Horm Res** 1996;46(2):59-63

A stochastic deconvolution method to reconstruct insulin secretion rate after a glucose stimulus. Sparacino G, et al. **IEEE Trans Biomed Eng** 1996 May;43(5):512-29

Tumour-growth inhibition by induced hyperglycaemia/hyperlactacidaemia and localized hyperthermia. Mueller-Klieser W, et al. **Int J Hyperthermia** 1996 Jul-Aug;12(4):501-11

The effect of carbohydrate ingestion on the motor skill proficiency of soccer players. Zeederberg C, et al. **Int J Sport Nutr** 1996 Dec;6(4):348-55

Effects of insulin under normal and low glucose on retinal electrophysiology in the perfused cat eye. Lansel N, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):792-9

A comparison of glucagon and glucose in prehospital hypoglycaemia. Howell MA, et al. **J Accid Emerg Med** 1997 Jan;14(1):30-2

Glucose administration before exercise modulates catecholaminergic responses in glycogen-depleted subjects. Gozal D, et al. **J Appl Physiol** 1997 Jan;82(1):248-56

Effect of glucose supplement timing on protein metabolism after resistance training. Roy BD, et al. **J Appl Physiol** 1997 Jun;82(6):1882-8

Thermodilution cardiac output measurement during

simultaneous volume infusion through the venous infusion port of the pulmonary artery catheter. Griffin K, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):437–9

Glucose deprivation–induced cytotoxicity in drug resistant human breast carcinoma MCF–7/ADR cells: role of c–myc and bcl–2 in apoptotic cell death. Lee YJ, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):681–6

Treatment with the oral antidiabetic agent troglitazone improves beta cell responses to glucose in subjects with impaired glucose tolerance. Cavaghan MK, et al. **J Clin Invest** 1997 Aug 1;100(3):530–7

Abomasal infusion of glucose and fat—effect on digestion, production, and ovarian and uterine functions of cows. Oldick BS, et al. **J Dairy Sci** 1997 Jul;80(7):1315–28

Native corn starch versus either cellulose or glucose in the diet and the effects on apparent magnesium absorption in goats. Schonewille JT, et al. **J Dairy Sci** 1997 Aug; 80(8):1738–43

Is the 50–gram glucose screening test ever diagnostic? Bobrowski RA, et al. **J Matern Fetal Med** 1996 Nov–Dec; 5(6):317–20

Effect of intraoperative fluid on blood glucose level in neurosurgery. Ittichaikulthol W, et al. **J Med Assoc Thai** 1997 Jul;80(7):461–5

Effects of silibinin and antioxidants on high glucose–induced alterations of fibronectin turnover in human mesangial cell cultures. Wenzel S, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1520–6

Result of oral intake of glucose by healthy subjects and patients with essential hypertension on the binding and degradation of 125I–insulin by erythrocyte receptors. Szczęśniak L, et al. **J Physiol Pharmacol** 1996 Jun; 47(2):269–79

Metabolic and respiratory effects of sodium lactate during short i.v. nutrition in critically ill patients. Chioléro R, et al. **JPEN J Parenter Enteral Nutr** 1996 Jul–Aug; 20(4):257–63

Effect of abrupt discontinuation of high glucose infusion rates during parenteral nutrition. Christensen ML. **JPEN J Parenter Enteral Nutr** 1996 Jul–Aug;20(4):309–10

Cyclo(His–Pro) augments the insulin response to oral glucose in rats. Mizumo H, et al. **Life Sci** 1997;60(6):369–74

Decreased production of nitric oxide by LPS–treated J774 macrophages in high–glucose medium. Tseng CC, et al. **Life Sci** 1997;60(7):PL99–106

Effects of metformin on the pathways of glucose utilization after oral glucose in non–insulin–dependent diabetes mellitus patients. Féry F, et al. **Metabolism** 1997 Feb; 46(2):227–33

Combined effect of bicarbonate and insulin with glucose in acute therapy of hyperkalemia in end–stage renal disease patients. Kim HJ. **Nephron** 1996;72(3):476–82

Pre–stress carbohydrate solution prevents fatal outcome after hemorrhage in 24–hour food–deprived rats. Nettelbladt CG, et al. **Nutrition** 1996 Oct;12(10):696–9

The effect of preoperative carbohydrate loading on hormonal changes, hepatic glycogen, and glucoregulatory enzymes during abdominal surgery [see comments] Thorell A, et al. **Nutrition** 1996 Oct;12(10):690–5. Comment in: Nutrition 1996 Oct;12(10):721–3.

Effects of bromocriptine on self–administration of sweetened ethanol solutions in rats. Nadal R, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):45–53

Iatrogenic hypoglycemia and malpractice claims. Fink S, et al. **South Med J** 1997 Feb;90(2):251–3

[Portal and peripheral blood insulin concentrations and arterial ketone body ratio before and after glucose infusion during gastrectomy] Hayakawa J, et al. **Masui** 1996 Feb; 45(2):173–7 (Eng. Abstr.) **(Jpn)**

[Lack of hyperglycemic rebound after insulinoma removal: two case reports] Matsumoto Y, et al. **Masui** 1997 May; 46(5):664–8 (Eng. Abstr.) **(Jpn)**

[The effect of continuous perfusion with St. Thomas' Hospital cardioplegic solution containing glucose, insulin and L–aspartate on functional recovery after myocardial preservation in the rat] Shimada Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1742–8 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Neurologic symptoms after accidental administration of epidural glucose. Whiteley MH, et al. **Anesth Analg** 1997 Jan;84(1):216–7

Hyperglycemia increases brain injury caused by secondary ischemia after cortical impact injury in rats [see comments] Cherian L, et al. **Crit Care Med** 1997 Aug;25(8):1378–83 . Comment in: Crit Care Med 1997 Aug;25(8):1267–8.

Acute hyperglycemia following intraperitoneal irrigation with 10% dextrose in a patient with pseudomyxoma peritonei. Roy WJ Jr, et al. **Gynecol Oncol** 1997 May; 65(2):360–2

Complications of 32% dextran–70 in 10% dextrose. A case report. Schinco MA, et al. **J Reprod Med** 1996 Jun; 41(6):455–8

Icodextrin hypersensitivity in a CAPD patient. Lam–Po–Tang MK, et al. **Perit Dial Int** 1997 Jan–Feb; 17(1):82–4

Pancreatic B–cell dysfunction and glucose toxicity in non–insulin–dependent diabetes. Flatt PR, et al. **Proc Nutr Soc** 1997 Mar;56(1B):243–62 (75 ref.)

[Risk factors on hyperglycemia in newborn infants] Guo J, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1995 Nov; 30(11):684–6 (Eng. Abstr.) **(Chi)**

ANALOGS & DERIVATIVES

Sulfated pentagalloyl glucose (Y–ART–3) inhibits HIV replication and cytopathic effects in vitro, and reduces HIV infection in hu–PBL–SCID mice. Nakashima H, et al. **Antiviral Res** 1996 May;30(2–3):95–108

Accumulation of sulfoquinovosyl–1–O–dihydroxyacetone in a sulfolipid–deficient mutant of Rhodobacter sphaeroides inactivated in sqdC. Rossak M, et al. **Arch Biochem Biophys** 1997 Apr 15;340(2):219–30

Stimulation of insulin release by alpha–D–glucose pentaacetate. Malaisse WJ, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):435–6

A cyclic phosphonamidate analogue of glucose as a selective inhibitor of inverting glycosidases. Darrow JW, et al. **Bioorg Med Chem** 1996 Aug;4(8):1341–8

In vitro studies of the hyperthermic enhancement of activated ifosfamide (4–hydroperoxy–ifosfamide) and glucose isophosphoramide mustard. Kutz ME, et al. **Cancer Chemother Pharmacol** 1997;40(2):167–71

Structural study and serological characterisation of the O–specific polysaccharide of Hafnia alvei PCM 1185, another Hafnia O–antigen that contains 3,6–dideoxy–3–[(R)–3–hydroxybutyramido]–D–glucose. Katzenellenbogen E, et al. **Carbohydr Res** 1996 Oct 23; 293(1):61–70

Substrate specificity of native dTDP–D–glucose–4,6–dehydratase: chemo–enzymatic syntheses of artificial and naturally occurring deoxy sugars. Naundorf A, et al. **Carbohydr Res** 1996 May 14;285:141–50

Pulsed electrochemical detection of nonchromophoric compounds following capillary electrophoresis. LaCourse WR, et al. **Electrophoresis** 1996 Feb;17(2):310–8

Glucose transporter 2 expression: prevention of streptozotocin–induced reduction in beta–cells with 5–thio–D–glucose. Wang Z, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:83–97

Synthesis, antimicrobial and cytostatic activity of 1,2:5,6–di–O–isopropylidene–alpha–D–glucofuranosyl (–)–(S)–propanesulfinate. Saenz MT, et al. **Farmaco** 1996 Aug–Sep;51(8–9):613–5

The activity of the gluconate–H+ symporter of Schizosaccharomyces pombe cells is down–regulated by D–glucose and exogenous cAMP. Caspari T, et al. **FEBS Lett** 1996 Oct 21;395(2–3):272–6

Potential chemoprotectant activity of mechanism–based glycosidase inhibitors against ricin toxicity in Chinese hamster ovary and macrophage J774A.1 cell cultures. Hassoun EA, et al. **J Appl Toxicol** 1996 Jan–Feb; 16(1):49–54

Neighboring group catalysis in the design of nucleotide prodrugs. Khamnei S, et al. **J Med Chem** 1996 Sep 27; 39(20):4109–15

Biological studies of analogues of glucose iodinated in positions 1, 2, or 3. Koumanov F, et al. **Nucl Med Biol** 1996 Jan;23(1):53–60

ANALYSIS

A microassay for measuring glycogen in 96–well–cultured cells. Gómez–Lechón MJ, et al. **Anal Biochem** 1996 May 1;236(2):296–301

A flow injection microdialysis sampling chemiluminescence system for in vivo on–line monitoring of glucose in intravenous and subcutaneous tissue fluid microdialysates. Fang Q, et al. **Anal Chem** 1997 Sep 1;69(17):3570–7

Polymeric mercaptosilane–modified platinum electrodes for elimination of interferants in glucose biosensors. Jung SK, et al. **Anal Chem** 1996 Feb 15;68(4):591–6

Electrochemical glucose and lactate sensors based on "wired" thermostable soybean peroxidase operating continuously and stably at 37 degrees C. Kenausis G, et al. **Anal Chem** 1997 Mar 15;69(6):1054–60

In vivo brain glucose measurements: differential normal pulse voltammetry with enzyme–modified carbon fiber microelectrodes. Netchiporouk LI, et al. **Anal Chem** 1996 Dec 15;68(24):4358–64

In vitro optimisation of a microdialysis system with potential for on–line monitoring of lactate and glucose in biological samples. Dempsey E, et al. **Analyst** 1997 Feb;122(2):185–9

Comparison of a spectrophotometric microdilution method with RPMI–2% glucose with the National Committee for Clinical Laboratory Standards reference macrodilution method M27–P for in vitro susceptibility testing of amphotericin B, flucytosine, and fluconazole against Candida albicans. Rodríguez–Tudela JL, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):1998–2003

Selective spectrophotometric determination of glucose and fructose in the presence of aldoses using phenol–acetone reagent and cerium(III) chloride. Gamian A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):249–54

Studies on dynamic behavior of the biosensor based on immobilized glucoamylase–glucose oxidase membrane. Gondo S, et al. **Biosens Bioelectron** 1997;12(5):395–401

Novel hexacyanoferrate (III)–modified carbon electrodes: application in miniaturized biosensors with potential for in vivo glucose sensing. Jaffari SA, et al. **Biosens Bioelectron** 1996;11(11):1167–75

Organic charge transfer complex based printable biosensor. Khan GF. **Biosens Bioelectron** 1996;11(12):1221–7

An improved glucose–oxidase method for determining blood, C.S.F. and urine glucose levels. 1959 [classical article] Marks V. **Clin Chim Acta** 1996 Jul 15;251(1):19–24

Estimation of endogenous glucose production after a glucose perturbation by nonparametric stochastic deconvolution. Vicini P, et al. **Comput Methods Programs Biomed** 1997 Mar;52(3):147–56

Self–monitoring of blood glucose in type I diabetic patients: comparison with continuous microdialysis measurements of glucose in subcutaneous adipose tissue during ordinary life conditions. Bolinder J, et al. **Diabetes Care** 1997 Jan; 20(1):64–70

Pulsed electrochemical detection of nonchromophoric compounds following capillary electrophoresis. LaCourse WR, et al. **Electrophoresis** 1996 Feb;17(2):310–8

The effects of tonicity, glucose concentration and temperature of an oral rehydration solution on its absorption and elimination. Sosa León LA, et al. **Equine Vet J Suppl** 1995 Nov;(20):140–6

Electron–dense granules in Desulfovibrio gigas do not consist of inorganic triphosphate but of a glucose pentakis(diphosphate). Hensgens CM, et al. **Eur J Biochem** 1996 Dec 1;242(2):327–31

Measurement of gluconeogenesis and pyruvate recycling in the rat liver: a simple analysis of glucose and glutamate isotopomers during metabolism of [1,2,3–(13)C3]propionate. Jones JG, et al. **FEBS Lett** 1997 Jul 21;412(1):131–7

Determination of glucose concentrations in an aqueous matrix from NIR spectra using optimal time–domain filtering and partial least–squares regression. Ham FM, et al. **IEEE Trans Biomed Eng** 1997 Jun;44(6):475–85

Glucose load and renal sodium handling in mild essential hypertension on different sodium intakes. Inoue J, et al. **J Hum Hypertens** 1996 Aug;10(8):523–9

Preliminary investigations of an amperometric oligosaccharide dehydrogenase–based electrode for the detection of glucose and some other low molecular weight saccharides. Ruzgas T, et al. **J Mol Recognit** 1996 Sep–Dec; 9(5–6):480–4

Evaluation of neonatal whole blood versus plasma glucose concentration by ion–selective electrode technology and comparison with two whole blood chromogen test strip methods. Giep TN, et al. **J Perinatol** 1996 Jul–Aug; 16(4):244–9

Evidence for 100% 13C NMR visibility of glucose in human skeletal muscle. Roussel R, et al. **Magn Reson Med** 1997 Jun;37(6):821–4

Glucose monitoring: state of the art and future possibilities. Wilkins E, et al. **Med Eng Phys** 1996 Jun;18(4):273–88 (189 ref.)

Interference of creatinine measurement in CAPD fluid is dependent on glucose and creatinine concentrations. Mak TW, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):184–6

Changes in sugar, ash and minerals in four guava cultivars during ripening. el Buluk RE, et al. **Plant Foods Hum Nutr** 1996 Feb;49(2):147–54

The relationship between second–trimester amniotic fluid insulin and glucose levels and subsequent gestational diabetes. Star J, et al. **Prenat Diagn** 1997 Feb;17(2):149–54

Microdialysis for in vivo evaluation of permeability of immunoisolation devices. Rafael E, et al. **Transplant Proc** 1997 Jun;29(4):2134–5

[Influence of intake of vegetable oils on the in vitro intestinal absorption of glucose in golden hamsters] González Barra I, et al. **Arch Latinoam Nutr** 1995 Dec;45(4):290–4 (Eng. Abstr.) **(Spa)**

[A conductometric enzymatic glucose sensor. A search for ways to improve analytical characteristics] Dziadevych SV, et al. **Ukr Biokhim Zh** 1995 Nov–Dec;67(6):53–9 (Eng. Abstr.) **(Ukr)**

[The normal tear fluid and decreased tearing in patients with Sjögren's disease and Sjögren's syndrome. I. The protein and glucose content] Morozova rp, et al. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):77–82 (Eng. Abstr.) **(Ukr)**

ANTAGONISTS & INHIBITORS

Prolonged suppression of glucose metabolism causes insulin resistance in rat skeletal muscle. Kim JK, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E288–96

Inhibition of glucose–induced insulin secretion by the diacylglycerol lipase inhibitor RHC 80267 and the phospholipase A2 inhibitor ACA through stimulation of K+ permeability without diminution by exogenous arachidonic acid. Thams P, et al. **Biochem Pharmacol** 1997 Apr 25;53(8):1077–86

Botulinum neurotoxin B inhibits insulin–stimulated glucose uptake into 3T3–L1 adipocytes and cleaves cellubrevin unlike type A toxin which failed to proteolyze the SNAP–23 present. Chen F, et al. **Biochemistry** 1997 May 13;36(19):5719–28

Direct and indirect effects of insulin in suppressing glucose production in depancreatized dogs: role of glucagon. Giacca A, et al. **Endocrinology** 1997 Mar;138(3):999–1007

Paraventricular norepinephrine release mediates glucoprivic suppression of pulsatile luteinizing hormone secretion. Nagatani S, et al. **Endocrinology** 1996 Aug;137(8):3183–6

Antioxidants prevent high–D–glucose–enhanced endothelial Ca2+/cGMP response by scavenging superoxide anions. Graier WF, et al. **Eur J Pharmacol** 1997 Mar 12; 322(1):113–22

Captopril reverses high–glucose–induced growth effects on

LLC-PK1 cells partly by decreasing transforming growth factor-beta receptor protein expressions. Guh JY, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1207-15

Suramin inhibits glucose-induced Ca2+ response in single rat pancreatic beta cells. Kuromi H, et al. **Jpn J Pharmacol** 1997 Feb;73(2):179-82

BIOSYNTHESIS

Glycerol carbon contributes to hepatic glucose production during the first eight hours in healthy term infants. Sunehag A, et al. **Acta Paediatr** 1996 Nov;85(11):1339-43

A low-protein diet improves insulin sensitivity of endogenous glucose production in predialytic uremic patients. Rigalleau V, et al. **Am J Clin Nutr** 1997 May;65(5):1512-6

Direct effects of catecholamines on hepatic glucose production in conscious dog are due to glycogenolysis. Chu CA, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E127-37

Regulation of glucose production during exercise at 80% of VO2peak in untrained humans. Coggan AR, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E348-54

Persistent glucose production and greater peripheral sensitivity to insulin in the neonate vs. the adult. Farrag HM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E86-93

Early glycogenolysis and late glycogenesis in human liver after intravenous administration of galactose. Fried R, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G14-9

Altered fluxes responsible for reduced hepatic glucose production and gluconeogenesis by exogenous glucose in rats. Hellerstein MK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E163-72

Contribution of net hepatic glycogenolysis to glucose production during the early postprandial period. Petersen KF, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E186-91

Effects of dexamethasone on hepatic glucose production and fructose metabolism in healthy humans. Tounian P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E315-20

D-glucose generation from [2-13C]pyruvate in rat hepatocytes: implications in terms of enzyme-to-enzyme channelling. Malaisse WJ, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):341-51

In the absence of counterregulatory hormones, the increase in hepatic glucose production during insulin-induced hypoglycemia in the dog is initiated in the liver rather than the brain. Connolly CC, et al. **Diabetes** 1996 Dec; 45(12):1805-13

The set point for maternal glucose homeostasis is lowered during late pregnancy in the rat: the role of the islet beta-cell and liver. Nolan CJ, et al. **Diabetologia** 1996 Jul; 39(7):785-92

Influences of body weight, body composition, and substrate oxidation rate on resting postabsorptive glucose production and gluconeogenesis. Giusti V, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):842-7

Glucose homeostasis in children with falciparum malaria: precursor supply limits gluconeogenesis and glucose production. Dekker E, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2514-21

Endogenous glucose production following injury increases with age. Watters JM, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3005-10

Glucose effectiveness assessed under dynamic and steady state conditions. Comparability of uptake versus production components. Ader M, et al. **J Clin Invest** 1997 Mar 15; 99(6):1187-99

Comparison of the direct and indirect effects of epinephrine on hepatic glucose production. Chu CA, et al. **J Clin Invest** 1997 Mar 1;99(5):1044-56

Gliclazide potentiates suppression of hepatic glucose production in non-insulin-dependent diabetic patients. Riccio A, et al. **Metabolism** 1996 Oct;45(10):1196-202

Glucose production and gluconeogenesis are negatively related to body weight in mechanically ventilated, very low birth weight neonates. Keshen T, et al. **Pediatr Res** 1997 Jan;41(1):132-8

[Between dogmatism and empiricism: discovery of glucose synthesis and secretion by the liver, by Claude Bernard (editorial)] Kahn A. **C R Acad Sci III** 1996 Sep; 319(9):753-61 **(Fre)**

[1997 Apollinaire Bouchardat Award. Autoregulation of endogenous glucose production in man] Tappy L. **Journ Annu Diabetol Hotel Dieu** 1997;:289-98 (30 ref.) **(Fre)**

[Liver urea and glucose production in patients with alcohol-induced cirrhosis] Schricker T, et al. **Dtsch Med Wochenschr** 1997 Jan 24;122(4):75-9 (Eng. Abstr.) **(Ger)**

BLOOD see BLOOD GLUCOSE

CEREBROSPINAL FLUID

Ascertaining hypoglycorrhachia in an acute patient. Skipper BJ, et al. **Am J Emerg Med** 1997 Jul;15(4):378-80

An unusual cause of hyperglycorrhachia. Katz I, et al. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):84-5

Another cause of hypoglycorrhachia [letter] Varon J, et al. **J Emerg Med** 1996 Sep-Oct;14(5):636-7

CSF/blood glucose ratio and other prognostic indices in pyogenic meningitis. Javadekar BB, et al. **J Indian Med Assoc** 1997 Jan;95(1):9-11

[Specific features of studies of glucose in biological fluids (review)] Ruvinova LG, et al. **Vopr Pitan** 1996;(4):6-10 (43 ref.) (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Novel monoacetoneglucose derivatives with calcium antagonist activity. Bécaert T, et al. **Boll Chim Farm** 1996 Mar;135(3):204-7

CHEMISTRY

Accuracy of filled elastomeric infusion device after long-term storage [letter; comment] Dasher T. **Am J Health Syst Pharm** 1996 Sep 1;53(17):2099. Comment on: Am J Health Syst Pharm 1996 Apr 1;53(7):794-5.

Tracing gluconeogenesis with deuterated water: measurement of low deuterium enrichments on carbons 6 and 2 of glucose. Hazey JW, et al. **Anal Biochem** 1997 May 15;248(1):158-67

Design of a stable charge transfer complex electrode for a third-generation amperometric glucose sensor. Khan GF, et al. **Anal Chem** 1996 Sep 1;68(17):2939-45

Acid-stable fluorescent advanced glycation end products: vesperlysines A, B, and C are formed as crosslinked products in the Maillard reaction between lysine or proteins with glucose. Nakamura K, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):227-30

Sites of glycation of beta B2-crystallin by glucose and fructose. Zhao HR, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):128-33

Asymmetrical labeling of D-glucose generated from [3(-13)C]pyruvate in rat hepatocytes. Verbruggen I, et al. **Biochem Mol Med** 1997 Aug;61(2):229-35

Structure-function studies of the brain-type glucose transporter, GLUT3: alanine-scanning mutagenesis of putative transmembrane helix VIII and an investigation of the role of proline residues in transport catalysis. Seatter MJ, et al. **Biochemistry** 1997 May 27;36(21):6401-7

Proton NMR spectroscopy assignment of D-glucose residues in highly acetylated starch. Laignel B, et al. **Carbohydr Res** 1997 Mar 13;298(4):251-60

Chemoenzymatic synthesis of glucose fatty esters. Redmann I, et al. **Carbohydr Res** 1997 May 12;300(2):103-8

Preparation of novel (1-->3)-beta-D-glucans having reducing glucose side chains. Kiho T, et al. **Chem Pharm Bull (Tokyo)** 1997 Apr;45(4):725-7

Increased urinary IgG/albumin index in normoalbuminuric insulin-dependent diabetic patients: a laboratory artefact. Hoogenberg K, et al. **Diabet Med** 1996 Jul;13(7):651-5

Beyond CHELP: improved potential derived charges for sugars. Carey C, et al. **Glycoconj J** 1997 Jun;14(4):501-5

Interaction with D-glucose and thermal denaturation of yeast hexokinase B: A DSC study. Catanzano F, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):568-77

Amphiphilic networks. X. Diffusion of glucose and insulin (and nondiffusion of albumin) through amphiphilic membranes. Shamlou S, et al. **J Biomed Mater Res** 1997 May;35(2):157-63

D-Glucose, forskolin and cytochalasin B affinities for the glucose transporter Glut1. Study of pH and reconstitution effects by biomembrane affinity chromatography. Lu L, et al. **J Chromatogr A** 1997 Jul 25;776(1):81-6

Glucose affinity for the glucose transporter Glut1 in native or reconstituted lipid bilayers. Temperature-dependence study by biomembrane affinity chromatography. Lundqvist A, et al. **J Chromatogr A** 1997 Jul 25;776(1):87-91

Advanced glycation end product (AGE): characterization of the products from the reaction between D-glucose and serum albumin. Wu JT, et al. **J Clin Lab Anal** 1996; 10(1):21-34

How the sweet killer ORS was killed [letter] Tiwari DK. **J Indian Med Assoc** 1996 Mar;94(3):119-20

Synthesis and characterization of sol-gel phase-reversible hydrogels sensitive to glucose. Lee SJ, et al. **J Mol Recognit** 1996 Sep-Dec;9(5-6):549-57

Glucose-responsive gel from phenylborate polymer and poly(vinyl alcohol): prompt response at physiological pH through the interaction of borate with amino group in the gel. Hisamitsu I, et al. **Pharm Res** 1997 Mar;14(3):289-93

Characterization of glucose dependent gel-sol phase transition of the polymeric glucose-concanavalin A hydrogel system. Obaidat AA, et al. **Pharm Res** 1996 Jul; 13(7):989-95

Automated docking of monosaccharide substrates and analogues and methyl alpha-acarviosinide in the glucoamylase active site. Coutinho PM, et al. **Proteins** 1997 Feb;27(2):235-48

A highly specific method for the characterization of glycation and glyco-oxidation products of globins. Lapolla A, et al. **Rapid Commun Mass Spectrom** 1997;11(6):613-7

The in vitro glycation of lysozyme and the influence of buffer concentration investigated by mass spectrometry. Lapolla A, et al. **Rapid Commun Mass Spectrom** 1996;10(12):1512-8

Mass spectrometry in the study of non-enzymatic glyco-oxidation of proteins. Traldi P, et al. **Rapid Commun Mass Spectrom** 1997;11(6):673-8 (21 ref.)

DEFICIENCY

Central opioid receptors mediate glucoprivic inhibition of pituitary LH secretion. Briski KP. **Am J Physiol** 1997 Apr; 272(4 Pt 1):E517-22

Glucoprivation counteracts effects of testosterone on daily torpor in Siberian hamsters. Dark J, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R398-403

Glycogen: a carbohydrate source for GLUT-1 glycosylation during glucose deprivation of 3T3-L1 adipocytes. McMahon RJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E640-5

Histaminergic contribution to the metabolic effects of neuroglucopenia. Molina PE, et al. **Am J Physiol** 1997 Jun; 272(6 Pt 2):R1918-24

Central vs. peripheral metabolic control of estrous cycles in Syrian hamsters. II. Glucoprivation. Schneider JE, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R406-12

Development, glycolytic activity, and viability of preimplantation mouse embryos subjected to different periods of glucose starvation. Leppens-Luisier G, et al. **Biol Reprod** 1997 Mar;56(3):589-96

Comparison of effects induced by toxic applications of kainate and glutamate by glucose deprivation on area CA1 of rat hippocampal slices. Alici K, et al. **Brain Res** 1996 Oct 28;738(1):109-20

Vulnerability to glucose deprivation injury correlates with glutathione levels in astrocytes. Papadopoulos MC, et al. **Brain Res** 1997 Feb 14;748(1-2):151-6

Identification of calcium channels involved in neuronal injury in rat hippocampal slices subjected to oxygen and glucose deprivation. Small DL, et al. **Brain Res** 1997 Apr 11; 753(2):209-18

Exposure to hypoxia, glucose starvation and acidosis: effect on invasive capacity of murine tumor cells and correlation with cathepsin (L + B) secretion. Cuvier C, et al. **Clin Exp Metastasis** 1997 Jan;15(1):19-25

Extracellular acidosis delays cell death against glucose-oxygen deprivation in neuroblastoma x glioma hybrid cells. Morimoto Y, et al. **Crit Care Med** 1997 May; 25(5):841-7

Adrenoceptor antagonists, but not guanethidine, reduce glucopenia-induced glucagon secretion from perfused rat pancreas. Ito K, et al. **Diabetes Res Clin Pract** 1995 Dec; 30(3):173-80

Hepatic branch vagotomy enhances feeding in response to centrally elicited glucose deprivation in rats. Rossi R, et al. **Exp Physiol** 1996 Jan;81(1):119-29

L-alpha-aminoadipate reduces glutamate release from brain tissue exposed to combined oxygen and glucose deprivation. Haugstad TS, et al. **J Cereb Blood Flow Metab** 1997 May;17(5):567-70

Resistance to neuroglycopenia: an adaptive response during intensive insulin treatment of diabetes. Jones TW, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1713-8

Lipoprotein lipase regulates Fc receptor-mediated phagocytosis by macrophages maintained in glucose-deficient medium. Yin B, et al. **J Clin Invest** 1997 Aug 1;100(3):649-57

Mechanisms underlying the rapid depolarization produced by deprivation of oxygen and glucose in rat hippocampal CA1 neurons in vitro. Tanaka E, et al. **J Neurophysiol** 1997 Aug;78(2):891-902

Factors that reverse the persistent depolarization produced by deprivation of oxygen and glucose in rat hippocampal CA1 neurons in vitro. Yamamoto S, et al. **J Neurophysiol** 1997 Aug;78(2):903-11

Protective effect of ifenprodil against glucose deprivation-induced damage in cultured rat hippocampal neurons. Geng MY, et al. **Jpn J Pharmacol** 1997 Jan; 73(1):97-100

Involvement of nitric oxide in the deregulation of cytosolic calcium in cerebellar neurons during combined glucose-oxygen deprivation. Mei JM, et al. **Mol Chem Neuropathol** 1996 Feb;27(2):155-66

Effect of hypoxia and glucose deprivation on ATP level, adenylate energy charge and [Ca2+]o-dependent and independent release of [3H]dopamine in rat striatal slices. Milusheva EA, et al. **Neurochem Int** 1996 May-Jun; 28(5-6):501-7

The protective effect of hypothermia on the recovery of neural activity after deprivation of oxygen and glucose: study of slices from the hippocampus and superior colliculus. Kurihara E, et al. **Neurosci Lett** 1996 Feb 9; 204(3):197-200

HSP70 protects murine astrocytes from glucose deprivation injury. Xu L, et al. **Neurosci Lett** 1997 Mar 7;224(1):9-12

Recovery potential in glucose deprived astrocytes. Mertens-Strijthagen J, et al. **Neurosci Res** 1996 Oct; 26(2):133-9

Potentiation of oxygen-glucose deprivation-induced neuronal death after induction of iNOS. Hewett SJ, et al. **Stroke** 1996 Sep;27(9):1586-91

DIAGNOSTIC USE

Recurrence of malignant melanoma after irradiation diagnosed by glucose-fructose enhanced magnetic resonance imaging. Thuomas KA, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):330-3

Long-term follow-up of proton irradiated malignant melanoma by glucose-fructose enhanced magnetic resonance imaging. Thuomas KA, et al. **Acta Ophthalmol Scand** 1997 Feb;75(1):17-21

Insulin responses to intravenous glucose, intravenous arginine and a hyperglycaemic clamp in ICA-positive subjects with different degrees of glucose tolerance. Rakotoambinina B, et al. **Diabetes Metab** 1997 Feb;23(1):43-50

Secretory protein 7B2 response to oral glucose loading and intravenous glucagon injection in patients with diabetes mellitus. Hisatomi A, et al. **Fukuoka Igaku Zasshi** 1996 Dec;

87(12):266–73
Time–dependent gestational diabetes screening values. Cetin M, et al. **Int J Gynaecol Obstet** 1997 Mar;56(3):257–61
Detection of myocardial perfusion abnormalities during dobutamine and adenosine stress echocardiography with transient myocardial contrast imaging after minute quantities of intravenous perfluorocarbon–exposed sonicated dextrose albumin. Porter TR, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):779–86
Reduction in left ventricular cavitary attenuation and improvement in posterior myocardial contrast with higher molecular weight intravenous perfluorocarbon–exposed sonicated dextrose albumin microbubbles. Porter TR, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug;9(4):437–41
Glucose–loading thallium–201 myocardial SPECT. Chiba H, et al. **J Nucl Med** 1997 Apr;38(4):573–7
Acute incretin response to oral glucose is associated with stimulation of gastric inhibitory polypeptide, not glucagon–like peptide in young subjects. Limb C, et al. **Pediatr Res** 1997 Mar;41(3):364–7
Diagnostic value of dumping provocation in patients after gastric surgery. van der Kleij FG, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1162–6
[Oral glucose loading test] Inoue K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:238–40 (6 ref.) **(Jpn)**

IMMUNOLOGY

Comparison of the properties of concanavalin A and anti–alpha–D–glucose antibodies. Pazur JH, et al. **J Protein Chem** 1996 May;15(4):329–35

METABOLISM

Regional glucose metabolic rates in the human brain: a PET study. Gulyás B, et al. **Acta Biol Hung** 1996;47(1–4):157–72
Multiple regression analysis of parameters of lipid and glycide metabolism in obese and lean genetically hypertensive Koletsky rats under long lasting terguride treatment. Golda V, et al. **Acta Medica (Hradec Kralove)** 1996;39(4):141–7
Cerebral metabolism of oxygen and glucose in a patient with MELAS syndrome. Sano M, et al. **Acta Neurol Scand** 1995 Dec;92(6):497–502
Oxidative metabolism deficiencies in brains of patients with Alzheimer's disease. Hoyer S. **Acta Neurol Scand Suppl** 1996;165:18–24 (90 ref.)
Oral sugar clearance and other caries–related factors in patients with myotonic dystrophy. Engvall M, et al. **Acta Odontol Scand** 1997 Apr;55(2):111–5
Effects of constant and flickering light on retinal metabolism in rabbits. Wang L, et al. **Acta Ophthalmol Scand** 1997 Jun; 75(3):227–31
The value of neurophysiologic approaches in the anticipation and evaluation of neonatal hypoglycemia. Halamek LP, et al. **Acta Paediatr Jpn** 1997 Apr;39 Suppl 1:S33–43 (65 ref.)
Changes of the 78 kDa glucose–regulated protein (grp78) in livers of diabetic rats. Szántó I, et al. **Acta Physiol Hung** 1995;83(4):333–42
Na+/glucose cotransport in the colonic adenocarcinoma cell line HT29 cl.19A: effect of cAMP. Hemlin M, et al. **Acta Physiol Scand** 1997 Jun;160(2):185–94
Permeation from the synovial fluid as nutritional pathway for the anterior cruciate ligament in rabbits. Murakami Y, et al. **Acta Physiol Scand** 1996 Oct;158(2):181–7
Glucose metabolism of the inner retina in pigs in darkness and light. Wang L, et al. **Acta Physiol Scand** 1997 May; 160(1):71–4
Glucose metabolism in pig outer retina in light and darkness. Wang L, et al. **Acta Physiol Scand** 1997 May;160(1):75–81
Effect of C–peptide administration on whole body glucose utilization in STZ–induced diabetic rats. Wu W, et al. **Acta Physiol Scand** 1996 Jun;157(2):253–8
On the influence of physical training on glucose homeostasis. Dela F. **Acta Physiol Scand Suppl** 1996;635:1–41
Effect of some saponins on glucose transport system. Yamasaki K. **Adv Exp Med Biol** 1996;404:195–206
Culture of mammary tissue: glucose transport processes. Turner JD, et al. **Adv Food Nutr Res** 1996;40:207–13
Spreading depression as a contributor to ischemic brain damage. Nedergaard M. **Adv Neurol** 1996;71:75–83; discussion 83–4
Perturbations of glucose metabolism associated with HIV infection in human intestinal epithelial cells: a multinuclear magnetic resonance spectroscopy study. Lutz NW, et al. **AIDS** 1997 Feb;11(2):147–55
Glucose tolerance status and severity of coronary artery disease in men referred to coronary arteriography. Seibaek M, et al. **Am Heart J** 1997 Jun;133(6):622–9
Increased sarcolemmal glucose transporter abundance in myocardial ischemia. Brosius FC 3rd, et al. **Am J Cardiol** 1997 Aug 4;80(3A):77A–84A
Myocardial blood flow and glucose metabolism in diabetes mellitus. Meyer C, et al. **Am J Cardiol** 1997 Aug 4; 80(3A):94A–101A (72 ref.)
Perfusion–independent effect of bradykinin and fosinoprilate on glucose transport in Langendorff rat hearts. Rett K, et al. **Am J Cardiol** 1997 Aug 4;80(3A):143A–147A
Regulation of glucose transport, and glucose transporters expression and trafficking in the heart: studies in cardiac myocytes. Zorzano A, et al. **Am J Cardiol** 1997 Aug 4; 80(3A):65A–76A (118 ref.)
Herman Award Lecture, 1996: relation of metabolic studies to clinical nutrition—the example of burn injury. Wolfe RR. **Am J Clin Nutr** 1996 Nov;64(5):800–8
Effect of acute N–nitro–L–arginine methyl ester (L–NAME) hypertension on glucose tolerance, insulin levels, and [3H]–deoxyglucose muscle uptake. Bursztyn M, et al. **Am J Hypertens** 1997 Jun;10(6):683–6
Chronic salt overload increases blood pressure and improves glucose metabolism without changing insulin sensitivity. da Costa Lima NK, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):720–7
D2 dopamine receptor polymorphism and brain regional glucose metabolism. Noble EP, et al. **Am J Med Genet** 1997 Apr 18;74(2):162–6
High glucose concentration induces the overexpression of transforming growth factor–beta through the activation of a platelet–derived growth factor loop in human mesangial cells. Di Paolo S, et al. **Am J Pathol** 1996 Dec; 149(6):2095–106
Intact glucose transport in morphologically altered denervated skeletal muscle from quadriplegic patients. Aksnes AK, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E593–600
Lack of effect of an acute ileal perfusion of short–chain fatty acids on glucose metabolism in healthy men. Alamowitch C, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E199–204
Intake suppression after hepatic portal glucose infusion: all–or–none effect and its temporal threshold. Baird JP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1454–60
Relationship of visceral adipose tissue and glucose disposal is independent of sex in black NIDDM subjects. Banerji MA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E425–32
Effect of perfusion rate on the time course of insulin–mediated skeletal muscle glucose uptake. Baron AD, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1067–72
Metabolic fate of glucose in reversible low–flow ischemia of the isolated working rat heart. Bolukoglu H, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H817–26
Decline in muscle insulin–dependent and –independent glucose uptake but not GLUT–4 in 21– vs. 28–day–old rats. Cartee GD, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E446–52
Metabolic compartmentation of lactate in the glucose–perfused rat heart. Chatham JC, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H224–9
Relationship between cardiac function and substrate oxidation in hearts of diabetic rats. Chatham JC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H52–8
GLUT2 and hexokinase control proximodistal gradient of intestinal glucose metabolism in the newborn pig. Cherbuy C, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1530–9
In vivo effects of dexamethasone and sucrose on glucose transport (GLUT–4) protein tissue distribution. Coderre L, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E643–8
Upregulated renal adenosine A1 receptors augment PKC and glucose transport but inhibit proliferation. Coulson R, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F263–74
Glycolysis is a source of pyruvate for transamination of glutamine amino nitrogen in jejunal epithelial cells. Cremin JD Jr, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G575–88
NONMEM improves group parameter estimation for the minimal model of glucose kinetics. De Gaetano A, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E932–7
Glucose production and gluconeogenesis in adults with uncomplicated falciparum malaria. Dekker E, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E1059–64
Effects of fish oil on metabolic responses to oral fructose and glucose loads in healthy humans. Delarue J, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E353–62
Glucose transport and cell surface GLUT–4 protein in skeletal muscle of the obese Zucker rat. Etgen GJ Jr, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E294–301
Reduced glucose effectiveness associated with reduced insulin release: an artifact of the minimal–model method. Finegood DT, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E485–95
Contraction–independent effects of catecholamines on glucose transport in isolated rat cardiomyocytes. Fischer Y, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1204–10
Signals mediating stimulation of cardiomyocyte glucose transport by the alpha–adrenergic agonist phenylephrine. Fischer Y, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1211–20
More marked stimulation by lithium than insulin of the glycogenic pathway in rat skeletal muscle. Fürnsinn C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E514–20
Hexose transport across the basolateral membrane of the chicken jejunum. Garriga C, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 2):R1330–5
Glucose kinetics in interstitial fluid can be predicted by compartmental modeling. Gastaldelli A, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E494–505
Uncoupling of local cerebral glucose metabolism and blood flow after acute fluid–percussion injury in rats. Ginsberg MD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2859–68
Desensitization of beta–adrenergic receptors in adipocytes causes increased insulin sensitivity of glucose transport. Green A, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E271–6
Impaired pyruvate oxidation but normal glucose uptake in diabetic pig heart during dobutamine–induced work. Hall JL, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2320–9
Reciprocal GLUT–1 and GLUT–4 expression and glucose transport in denervated muscles. Handberg A, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E50–7
Phorbol esters stimulate muscle glucose transport by a mechanism distinct from the insulin and hypoxia pathways. Hansen PA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E28–36
Effect of luminal epidermal growth factor on enterocyte glucose and proline transport. Hardin JA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G509–15
Enhancement of glucose uptake in stunned myocardium: role of glucose transporter. Hashimoto K, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1122–30
Reversal of portacaval shunting normalizes brain energy consumption in most brain structures. Hawkins PA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1015–20
Lactate production by swine adipocytes: effects of age, nutritional status, glucose concentration, and insulin. Heckler BK, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E957–66
Glucosylation of small GTP–binding Rho proteins disrupts endothelial barrier function. Hippenstiel S, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):L38–43
Effect of cholecystokinin and related peptides on jejunal transepithelial hexose transport in the Sprague–Dawley rat. Hirsh AJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G755–61
Glucoregulation during progressive starvation in late pregnancy in the rat. Holness MJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E556–61
Physiological changes in circulating glucagon alter hepatic glucose disposition during portal glucose delivery. Holste LC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E488–96
Effects of elevated plasma epinephrine on glucose utilization and blood flow in conscious rat brain. Horinaka N, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1666–71
Constant infusion and bolus injection of stable–label tracer give reproducible and comparable fasting HGO. Hovorka R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E192–201
Role of glycogen concentration and epinephrine on glucose uptake in rat epitrochlearis muscle. Jensen J, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E649–55
Effect of overexpressing GLUT–1 and GLUT–4 on insulin– and contraction–stimulated glucose transport in muscle. Jóhannsson E, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E547–55
Effect of electrical stimulation patterns on glucose transport in rat muscles. Jóhannsson E, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R426–31
In vivo NMR investigation of intramuscular glucose metabolism in conscious rats. Jucker BM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E139–48
Characteristics of renal Na(+)–D–glucose cotransport in the skate (Raja erinacea) and shark (Squalus acanthias). Kipp H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R134–42
Decreased muscle GLUT–4 and contraction–induced glucose transport after eccentric contractions. Kristiansen S, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R477–82
Progressive increase in glucose transport and GLUT–4 in human sarcolemmal vesicles during moderate exercise. Kristiansen S, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E385–9
Exercise–induced increase in glucose transport, GLUT–4, and VAMP–2 in plasma membrane from human muscle. Kristiansen S, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E197–201
Fructose transport and GLUT–5 protein in human sarcolemmal vesicles. Kristiansen S, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E543–8
Specific adaptations in muscle and adipose tissue in response to chronic systemic glucose oversupply in rats. Laybutt DR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E1–9
Effects of epinephrine on insulin–stimulated glucose uptake and GLUT–4 phosphorylation in muscle. Lee AD, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C1082–7
Glucose transport by isolated plasma membranes of the bovine blood–brain barrier. Lee WJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1552–7
Glucagon enhances the direct suppressive effect of insulin on hepatic glucose production in humans. Lewis GF, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E371–8
Glucose metabolism and insulin release in mouse beta HC9 cells, as model for wild–type pancreatic beta–cells. Liang Y, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E846–57
Effects of circulating IGF–I on glucose and amino acid kinetics in the ovine fetus. Liechty EA, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E177–85
Ventromedial hypothalamic lesions impair glucoregulation in response to endotoxin. Lynch JP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1525–31
Regional glucose uptake within hypoperfused swine myocardium as measured by positron emission tomography. McFalls EO, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H343–9
Hyperglucagonemia and hepatic glucose metabolism during infection in the conscious dog. McGuinness OP, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E580–8
Human kidney free fatty acid and glucose uptake: evidence for a renal glucose–fatty acid cycle. Meyer C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E650–4
Neural and pancreatic influences on net hepatic glucose uptake and glycogen synthesis. Moore MC, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E215–22
Use of [3H]methylglucose and [14C]iodoantipyrine to determine kinetic parameters of glucose transport in rat

brain. Mori K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R163–71

Change from beta- to alpha-adrenergic glycogenolysis induced by corticosteroids in female rat liver. Moriyama M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R153–60

Measurement of interstitial muscle glucose and lactate concentrations during an oral glucose tolerance test. Müller M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1003–7

Glucose turnover in humans in the basal state and after intravenous glucose: a comparison of two models. Overkamp D, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E284–96

Poor fetal nutrition causes long-term changes in expression of insulin signaling components in adipocytes. Ozanne SE, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E46–51

Altered regulation of hepatic glucose output in the male offspring of protein-malnourished rat dams. Ozanne SE, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E559–64

Improvement of glucose and lipid metabolism in diabetic rats treated with molybdate. Ozcelikay AT, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E344–52

Increased net hepatic glucose output from gluconeogenic precursors after high-sucrose diet feeding in male rats. Pagliassotti MJ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R526–31

Ontogeny of intestinal adaptation in rats in response to isocaloric changes in dietary lipids. Perin N, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G713–20

Impaired insulin secretion and excessive hepatic glucose production are both early events in the diabetic GK rat. Picarel-Blanchot F, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E755–62

Effect of in vivo injection of cholera and pertussis toxin on glucose transport in rat skeletal muscle. Ploug T, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E7–17

Effects of exercise training on glucose transport and cell surface GLUT-4 in isolated rat epitrochlearis muscle. Reynolds TH 4th, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E320–5

Exercise-stimulated glucose transport in skeletal muscle is nitric oxide dependent. Roberts CK, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E220–5

Glucose-6-phosphatase flux and the hepatic glucose balance model [letter; comment] Rognstad R. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1125–7. Comment on: Am J Physiol 1995 Dec;269(6 Pt 1):E1037–43.

In vivo NMR evidence for moderate glucose accumulation in human skeletal muscle during hyperglycemia. Roussel R, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E434–8

Malonyl-CoA regulation in skeletal muscle: its link to cell citrate and the glucose-fatty acid cycle. Saha AK, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E641–8

Acetaminophen glucuronidation accurately reflects gluconeogenesis in fasted dogs. Schwenk WF, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E529–34

Basal and glucoprivic-induced changes in extracellular GABA in the ventral hypothalamus of Zucker rats. Specter SE, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R388–92

Extracellular glucose distribution is not altered by insulin: analysis of plasma and interstitial L-glucose kinetics. Steil GM, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E855–64

Differential effects of lipoic acid stereoisomers on glucose metabolism in insulin-resistant skeletal muscle. Streeper RS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E185–91

Alterations of plasma lactate and glucose metabolism in obese children. Stunff CL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E814–20

Glucose production, recycling, and gluconeogenesis in normals and diabetics: a mass isotopomer [U-13C]glucose study. Tayek JA, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E709–17

Glucose production, recycling, Cori cycle, and gluconeogenesis in humans: relationship to serum cortisol. Tayek JA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E476–84

Effect of chronic cold exposure on Na-dependent D-glucose transport along small intestine in ducklings. Thomas V, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1429–38

Glucose transporters in the regulation of intestinal, renal, and liver glucose fluxes. Thorens B. **Am J Physiol** 1996 Apr; 270(4 Pt 1):G541–53 (130 ref.)

Glucose utilization and glucose transporter proteins GLUT-1 and GLUT-3 in brains of diabetic (db/db) mice. Vannucci SJ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):E267–74

Developmental changes in glucose transport, lipid composition, and fluidity of jejunal BBM. Vázquez CM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1086–93

Chronic ethanol feeding in a high-fat diet decreases insulin-stimulated glucose transport in rat adipocytes. Wilkes JJ, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E477–84

Oral 18F-fluoro-2-deoxyglucose for primate PET studies without behavioral restraint: demonstration of principle. Martinez ZA, et al. **Am J Primatol** 1997;42(3):215–24

Association of premorbid intellectual function with cerebral metabolism in Alzheimer's disease: implications for the cognitive reserve hypothesis. Alexander GE, et al. **Am J Psychiatry** 1997 Feb;154(2):165–72

Reduced serotonin responsivity in depression [letter; comment] Brown GM. **Am J Psychiatry** 1997 Mar; 154(3):442. Comment on: Am J Psychiatry 1996 Feb;153(2):174–82.

Anterior cingulate gyrus volume and glucose metabolism in autistic disorder [see comments] Haznedar MM, et al. **Am J Psychiatry** 1997 Aug;154(8):1047–50. Comment in: Am J Psychiatry 1997 Aug;154(8):1043–5.

Decreased anterior cingulate gyrus metabolic rate in schizophrenia. Haznedar MM, et al. **Am J Psychiatry** 1997 May;154(5):682–4

Low glucose metabolism during brain stimulation in older Down's syndrome subjects at risk for Alzheimer's disease prior to dementia. Pietrini P, et al. **Am J Psychiatry** 1997 Aug;154(8):1063–9

Preferential metabolic involvement of visual cortical areas in a subtype of Alzheimer's disease: clinical implications. Pietrini P, et al. **Am J Psychiatry** 1996 Oct;153(10):1261–8

Gender differences in cerebellar metabolism: test-retest reproducibility. Volkow ND, et al. **Am J Psychiatry** 1997 Jan;154(1):119–21

Effects of methylphenidate on regional brain glucose metabolism in humans: relationship to dopamine D2 receptors. Volkow ND, et al. **Am J Psychiatry** 1997 Jan; 154(1):50–5

Octreotide diminishes luminal nutrient transport activity, which is reversed by epidermal growth factor. Seydel AS, et al. **Am J Surg** 1996 Sep;172(3):267–71

Sampling tube device for monitoring intracellular metabolite dynamics. Weuster-Botz D. **Anal Biochem** 1997 Mar 15; 246(2):225–33

The effects of sevoflurane anesthesia on insulin secretion and glucose metabolism in pigs. Saho S, et al. **Anesth Analg** 1997 Jun;84(6):1359–65

Influence of vaginal versus abdominal hysterectomy on perioperative glucose metabolism. Schricker T, et al. **Anesth Analg** 1996 Nov;83(5):991–5

Effects of a dobutamine-induced increase in splanchnic blood flow on hepatic metabolic activity in patients with septic shock. Reinelt H, et al. **Anesthesiology** 1997 Apr; 86(4):818–24

Functional neuroimaging studies in posttraumatic stress disorder. Rauch SL, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:83–98 (49 ref.)

Simple method to quantify myocardial glucose metabolism from MB ratio in myocardial FDG PET. Nishikawa J, et al. **Ann Nucl Med** 1996 Aug;10(3):323–8

Role of blood flow in the regulation of muscle glucose uptake. Baron AD, et al. **Annu Rev Nutr** 1997;17:487–99 (34 ref.)

Expression of Ascaris suum malic enzyme in a mutant Escherichia coli allows production of succinic acid from glucose. Stols L, et al. **Appl Biochem Biotechnol** 1997 Spring;63–65:153–8

Growth of Schizosaccharomyces pombe on glucose-malate mixtures in continuous cell-recycle cultures. Kinetics of substrate utilization. Uribelarrea JL, et al. **Appl Biochem Biotechnol** 1997 Apr;66(1):69–81

Regulation of phosphotransferases in glucose- and xylose-fermenting yeasts. Yang VW, et al. **Appl Biochem Biotechnol** 1997 Spring;63–65:97–108

Glucose transport by mixed ruminal bacteria from a cow. Kajikawa H, et al. **Appl Environ Microbiol** 1997 May; 63(5):1847–51

Cultivation of Escherichia coli with mixtures of 3-phenylpropionic acid and glucose: steady-state growth kinetics. Kovářová K, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2619–24

Listeria monocytogenes Scott A transports glucose by high-affinity and low-affinity glucose transport systems. Parker C, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):543–6

Glucose metabolism in the yeast Schwanniomyces castellii: role of phosphorylation site I and an alternative respiratory pathway. Zimmer E, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2779–84

Potassium and sodium dependent glucose transport: implications for cystic fibrosis [letter] Beesley AH, et al. **Arch Dis Child** 1997 May;76(5):478

Sodium/glucose cotransporter activity in cystic fibrosis [letter] Hardcastle PT, et al. **Arch Dis Child** 1996 Aug; 75(2):170

The brain metabolic patterns of clozapine- and fluphenazine-treated patients with schizophrenia during a continuous performance task. Cohen RM, et al. **Arch Gen Psychiatry** 1997 May;54(5):481–6

Carbohydrate metabolism in Thermoproteus tenax: in vivo utilization of the non-phosphorylative Entner-Doudoroff pathway and characterization of its first enzyme, glucose dehydrogenase. Siebers B, et al. **Arch Microbiol** 1997 Aug; 168(2):120–7

Changes in the growth and enzyme level of Zymomonas mobilis under oxygen-limited conditions at low glucose concentration. Toh H, et al. **Arch Microbiol** 1997 Jul; 168(1):46–52

No difference in cerebral glucose metabolism in patients with Alzheimer disease and differing apolipoprotein E genotypes. Corder EH, et al. **Arch Neurol** 1997 Mar; 54(3):273–7

Stoichiometry of oxygen consumption and sugar, organic acid and amino acid utilization in salivary sediment and pure cultures of oral bacteria. Traudt M, et al. **Arch Oral Biol** 1996 Oct;41(10):965–78

Effects of ovarian steroids on glucose metabolism in uterus horns isolated from underfed rats. Influence of castration. Casalino SM, et al. **Arch Physiol Biochem** 1996;104(2):152–6

Improvement of glucose metabolism in patients with type II diabetes after treatment with a hemodialysate. Jacob S, et al. **Arzneimittelforschung** 1996 Mar;46(3):269–72

Effect of glucose, insulin, and insulin-like growth factor-I on glucose transport activity in cultured rat vascular smooth muscle cells. Fujiwara R, et al. **Atherosclerosis** 1996 Nov 15;127(1):49–57

Metabolic actions of growth hormone: direct and indirect. Berneis K, et al. **Baillieres Clin Endocrinol Metab** 1996 Jul; 10(3):337–52 (78 ref.)

Evidence that the transit of glucose into liver microsomes is not required for functional glucose-6-phosphatase. Annabi B, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):808–13

Modeling interpretation of microbe metabolism detected by nuclear magnetic resonance. Bastianoni S, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):53–8

Degenerative changes in spermatogonia are associated with loss of glucose transporter (Glut 3) in abdominal testis of surgically induced unilateral cryptorchidism in rats. Farooqui SM, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):407–12

M-glycogenin, the protein moiety of Neurospora crassa proteoglycogen, is an auto- and transglucosylating enzyme. Goldraij A, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):909–14

A neurohormone regulating both methyl farnesoate synthesis and glucose metabolism in a crustacean. Liu L, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):694–701

Overexpressed syntaxin 1A/HPC-1 inhibits insulin secretion via a regulated pathway, but does not influence glucose metabolism and intracellular Ca2+ in insulinoma cell line beta TC3 cells. Nagamatsu S, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):89–93

Sulfonylureas stimulate glucose uptake through GLUT4 transporter translocation in rat skeletal muscle. Pulido N, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):499–504

A point mutation in the glucose-dependent insulinotropic peptide receptor confers constitutive activity. Tseng CC, et al. **Biochem Biophys Res Commun** 1997 Mar 6; 232(1):96–100

Clostridium botulinum C3 exoenzyme stimulates GLUT4-mediated glucose transport, but not glycogen synthesis, in 3T3-L1 adipocytes--a potential role of rho? van den Berghe N, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):430–9

Regulation of osteoclastic bone resorption by glucose. Williams JP, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):646–51

SNAP-25 is phosphorylated by glucose and GLP-1 in RIN 1046-38 cells. Zhou J, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):297–300

Cytokines modulate glucose transport in skeletal muscle by inducing the expression of inducible nitric oxide synthase. Bédard S, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):487–93

Glucose contribution to nucleic acid base synthesis in proliferating hepatoma cells: a glycine-biosynthesis-mediated pathway. Bismut H, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):761–7

Effects of glucocorticoid excess on the sensitivity of glucose transport and metabolism to insulin in rat skeletal muscle. Dimitriadis G, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):707–12

Increased flux through the hexosamine biosynthesis pathway inhibits glucose transport acutely by activation of protein kinase C. Filippis A, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):981–5

Glucose transport and glucose transporter GLUT4 are regulated by product(s) of intermediary metabolism in cardiomyocytes. Fischer Y, et al. **Biochem J** 1997 Feb 1; 321 (Pt 3):629–38

Proteolytic cleavage of cellubrevin and vesicle-associated membrane protein (VAMP) by tetanus toxin does not impair insulin-stimulated glucose transport or GLUT4 translocation in rat adipocytes. Hajduch E, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):233–8

Heterologous expression of rab4 reduces glucose transport and GLUT4 abundance at the cell surface in oocytes. Mora S, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):455–9

Rat C6 glioma cell growth is related to glucose transport and metabolism. Nagamatsu S, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):477–82

Biochemical alterations in collagen IV induced by in vitro glycation. Raabe HM, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):699–704

Glucose-independent inhibition of yeast plasma-membrane H+-ATPase by calmodulin antagonists. Romero I, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):823–8

Characterization of the intracellular signalling pathways that underlie growth-factor-stimulated glucose transport in Xenopus oocytes: evidence for ras- and rho-dependent pathways of phosphatidylinositol 3-kinase activation. Thomson FJ, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):637–43

Mechanism of glucose and maltose transport in plasma-membrane vesicles from the yeast Candida utilis. van den Broek PJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):487–95

Nitric oxide stimulates glucose transport and metabolism in rat skeletal muscle in vitro. Young ME, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):223–8

Glucose transport in a murine mammary epithelial cell line.

Bennett BL, et al. **Biochem Mol Biol Int** 1997 Jun; 42(2):315–23

Use of transport mutants to examine the identity and expression of GLUT isoforms in rat cardiac myoblasts. Lu Z, et al. **Biochem Mol Biol Int** 1997 Jan;41(1):103–21

D-glucose metabolism in dimethyl suberimidate-treated tumoral pancreatic islet cells. Vanhoutte C, et al. **Biochem Mol Biol Int** 1997 May;41(6):1209–16

Fluorescence study on ligand induced conformational changes of human erythrocyte glucose transporter. Xie WS, et al. **Biochem Mol Biol Int** 1996 May;39(2):279–84

Glucose-dependent formation of free radical species in lens homogenate. Ansari NH, et al. **Biochem Mol Med** 1996 Oct;59(1):68–71

D-glucose metabolism in BRIN-BD11 islet cells. Rasschaert J, et al. **Biochem Mol Med** 1996 Apr;57(2):97–105

Effects of calcium on brazilin-induced glucose transport in isolated rat epididymal adipocytes. Khil LY, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):97–101

Effect of flavones on glucose-induced changes in human serum albumen. Coussons PJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):397S

Glucose catabolism induces the L-type pyruvate kinase gene (125a). Doiron B, et al. **Biochem Soc Trans** 1996 May; 24(2):250S

Enhancement of glucose uptake and utilization in cultured human muscle fibres overexpressing muscle glycogen phosphorylase. Gómez-Foix AM, et al. **Biochem Soc Trans** 1997 Feb;25(1):7–10 (30 ref.)

Bridging the gap between glucose phosphorylation and glycogen synthesis in the liver. Guinovart JJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):157–60 (21 ref.)

Endocrine and nutritional modulation of glucose disposal and storage in muscle. Holness MJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):1–7 (23 ref.)

Activation of glycogen synthase in skeletal muscle: effects of insulin during late pregnancy. Holness MJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):100S

Glycogen levels modulate myocardial glucose uptake. Hopkins JC, et al. **Biochem Soc Trans** 1997 Feb;25(1):104S

Altered glycogen synthesis associated with changes in cell volume of rat skeletal muscle myotubes in primary culture. Low SY, et al. **Biochem Soc Trans** 1996 May;24(2):244S

Glycation of insulin by phosphorylated and nonphosphorylated reducing sugars. O'Harte FP, et al. **Biochem Soc Trans** 1997 Feb;25(1):150S

Reduced insulin sensitivity of isolated skeletal muscle but enhanced lipogenic capacity of adipocytes in both spontaneously hypertensive and Wistar Kyoto rats. Pearson SL, et al. **Biochem Soc Trans** 1996 May;24(2):234S

Effect of insulin on glucose transport in adipose tissue in lactation. Rogers MP, et al. **Biochem Soc Trans** 1996 May; 24(2):168S

New insight into the regulation of liver glycogen metabolism by glucose. Stalmans W, et al. **Biochem Soc Trans** 1997 Feb;25(1):19–25 (35 ref.)

Immobilized membrane vesicle or proteoliposome affinity chromatography. Frontal analysis of interactions of cytochalasin B and D-glucose with the human red cell glucose transporter. Brekkan E, et al. **Biochemistry** 1996 Sep 17;35(37):12141–5

Botulinum neurotoxin B inhibits insulin-stimulated glucose uptake into 3T3-L1 adipocytes and cleaves cellubrevin unlike type A toxin which failed to proteolyze the SNAP-23 present. Chen F, et al. **Biochemistry** 1997 May 13;36(19):5719–28

Regulation of glycogen utilization, but not glucose utilization, by precontraction glycogen levels in vascular smooth muscle. Hardin CD, et al. **Biochemistry** 1997 Jun 10; 36(23):6954–9

Cadmium increases GLUT1 substrate binding affinity in vitro while reducing its cytochalasin B binding affinity. Lachaal M, et al. **Biochemistry** 1996 Nov 26;35(47):14958–62

Stimulatory effect of fatty acid treatment on glucose utilization in human erythrocytes. Duan YJ, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):89–97

Modulation of cultured brain, adrenal, and aortic endothelial cell glucose transport. Gaposchkin CG, et al. **Biochim Biophys Acta** 1996 Dec 4;1285(2):255–66

Mechanism of beta-adrenergic agonist-induced transmural transport of glucose in rat small intestine. Regulation of phosphorylation of SGLT1 controls the function. Ishikawa Y, et al. **Biochim Biophys Acta** 1997 Jul 24;1357(3):306–18

Re-investigation of glucose metabolism in Fibrobacter succinogenes, using NMR spectroscopy and enzymatic assays. Evidence for pentose phosphates phosphoketolase and pyruvate formate lyase activities. Matheron C, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):50–60

Evidence from studies of temperature-dependent changes of D-glucose, D-mannose and L-sorbose permeability that different states of activation of the human erythrocyte hexose transporter exist for good and bad substrates. Naftalin RJ. **Biochim Biophys Acta** 1997 Aug 14; 1328(1):13–29

Carbohydrate metabolism in human platelets in a low glucose medium under aerobic conditions. Niu X, et al. **Biochim Biophys Acta** 1996 Oct 24;1291(2):97–106

Effects of oxygen on metabolic and secretory activities of beta TC3 cells. Papas KK, et al. **Biochim Biophys Acta** 1996 Oct 24;1291(2):163–6

Glucose transport in immortalized rat brain capillary endothelial cells in vitro: transport activity and GLUT1 expression. Regina A, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):135–43

Different activation energies in glucose uptake in Saccharomyces cerevisiae DFY1 suggest two transport systems. Reinhardt C, et al. **Biochim Biophys Acta** 1997 Apr 3;1325(1):126–34

Stimulation of glucose transport in Clone 9 cells by insulin and thyroid hormone: role of GLUT-1 activation. Shetty M, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1–2):140–6

Source of ATP for hexokinase-catalyzed glucose phosphorylation in tumor cells: dependence on the rate of oxidative phosphorylation relative to that of extramitochondrial ATP generation. Shinohara Y, et al. **Biochim Biophys Acta** 1997 Apr 11;1319(2–3):319–30

Acylation-stimulating protein (ASP) regulates glucose transport in the rat L6 muscle cell line. Tao Y, et al. **Biochim Biophys Acta** 1997 Feb 18;1344(3):221–9

Glucose transport activity and ligand binding (cytochalasin B, IAPS-forskolin) of chimeric constructs of GLUT2 and GLUT4 expressed in COS-7-cells. Wandel S, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):56–62

Immobilization of human red cells in gel particles for chromatographic activity studies of the glucose transporter Glut1. Zeng CM, et al. **Biochim Biophys Acta** 1997 Apr 3;1325(1):91–8

Transcriptional regulation by glucose in the liver. Kahn A. **Biochimie** 1997 Feb-Mar;79(2–3):113–8 (8 ref.)

Histone H4 stimulates glucose uptake through the insulin receptor. Louters LL, et al. **Biochimie** 1996;78(1):39–45

Glucose and glutamine metabolism in C6 glioma cells studied by carbon 13 NMR. Portais JC, et al. **Biochimie** 1996; 78(3):155–64

Ginseng pretreatment protects against transient global cerebral ischemia in the rat: measurement of local cerebral glucose utilization by [14C]deoxyglucose autoradiography. Choi SR, et al. **Biol Pharm Bull** 1996 Apr;19(4):644–6

Effect of 3-deoxyglucosone on the activities of enzymes responsible for glucose metabolism in mouse liver. Kiho T, et al. **Biol Pharm Bull** 1996 Aug;19(8):1106–8

Polysaccharides in fungi. XXXVI. Hypoglycemic activity of a polysaccharide (CS-F30) from the cultural mycelium of Cordyceps sinensis and its effect on glucose metabolism in mouse liver. Kiho T, et al. **Biol Pharm Bull** 1996 Feb; 19(2):294–6

Glucose participates in sperm-oocyte fusion in the mouse. Urner F, et al. **Biol Reprod** 1996 Oct;55(4):917–22

Control of glucose transport by GLUT1: regulated secretion in an unexpected environment. Widnell CC. **Biosci Rep** 1995 Dec;15(6):427–43 (42 ref.)

Quantitative conversion of glucose into glucose 6-phosphate by intact Escherichia coli cells. van der Zee JR, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):225–30

Role of the hypoglycemic plant extract cleome droserifolia in improving glucose and lipid metabolism and its relation to insulin resistance in fatty liver. Nicola WG, et al. **Boll Chim Farm** 1996 Oct;135(9):507–17

Effect of glucose transport inhibitors on vincristine efflux in multidrug-resistant murine erythroleukaemia cells overexpressing the multidrug resistance-associated protein (MRP) and two glucose transport proteins, GLUT1 and GLUT3. Martell RL, et al. **Br J Cancer** 1997;75(2):161–8

Glucose metabolism in bone marrow cells and granulocytes of adult mice after X-ray (5 Gy) irradiation: relationship to cell functionality. Gaitán S, et al. **Br J Haematol** 1997 Mar;96(3):559–65

Kinetics of dodecanedioic acid and effect of its administration on glucose kinetics in rats. Bertuzzi A, et al. **Br J Nutr** 1997 Jul;78(1):143–53

Biphasic effects of the beta-adrenoceptor agonist, BRL 37344, on glucose utilization in rat isolated skeletal muscle. Liu YL, et al. **Br J Pharmacol** 1996 Mar;117(6):1355–61

Metabolic adaptation of terminal ileal mucosa after construction of an ileoanal pouch. Chapman MA, et al. **Br J Surg** 1997 Jan;84(1):71–3

Striatal glucose metabolism and dopamine D2 receptor binding in asymptomatic gene carriers and patients with Huntington's disease. Antonini A, et al. **Brain** 1996 Dec; 119 (Pt 6):2085–95

Effects of a xanthine derivative, propentofylline, on local cerebral blood flow and glucose utilization in the rat. Grome JJ, et al. **Brain Res** 1996 Nov 18;740(1–2):41–6

Effect of long-term administration of ethyl eicosapentate (EPA-E) on local cerebral blood flow and glucose utilization in stroke-prone spontaneously hypertensive rats (SHRSP). Katayama Y, et al. **Brain Res** 1997 Jul 4; 761(2):300–5

Naloxone alters the local metabolic rate for glucose in discrete brain regions associated with opiate withdrawal. Kraus MA, et al. **Brain Res** 1996 Jun 10;724(1):33–40

Glutamate and potassium stimulation of hippocampal slices metabolizing glucose or glucose and pyruvate. McDougal DB Jr, et al. **Brain Res** 1997 May 2;755(2):304–12

Alteration of local cerebral glucose utilization following intravenous administration of heroin in Fischer 344 rats. Martin TJ, et al. **Brain Res** 1997 May 2;755(2):313–8

Abnormalities in sustained attention and anterior cingulate metabolism in subjects with resistance to thyroid hormone. Matochik JA, et al. **Brain Res** 1996 Jun 3;723(1–2):23–8

Beneficial effects of TDN-345, a novel Ca2+ antagonist, on ischemic brain injury and cerebral glucose metabolism in experimental animal models with cerebrovascular lesions. Nakayama T, et al. **Brain Res** 1997 Jul 11; 762(1–2):203–10

Compartment analysis of cerebral glucose metabolism and in vitro glucose-metabolizing enzyme activities in the rat brain. Ouchi Y, et al. **Brain Res** 1996 Jan 15;706(2):267–72

The inhibitory effects of beta-amyloid on glutamate and glucose uptakes by cultured astrocytes. Parpura-Gill A, et al. **Brain Res** 1997 Apr 18;754(1–2):65–71

Temporally changing patterns of hippocampal cerebral glucose utilization following sensorimotor cortical contusion in rats. Queen SA, et al. **Brain Res** 1996 Jun 17;724(2):246–50

Brain lactate, not glucose, fuels the recovery of synaptic function from hypoxia upon reoxygenation: an in vitro study. Schurr A, et al. **Brain Res** 1997 Jan 2;744(1):105–11

Comparison of the patterns of altered cerebral glucose utilisation produced by competitive and non-competitive NMDA receptor antagonists. Sharkey J, et al. **Brain Res** 1996 Sep 30;735(1):67–82

Postnatal distribution of Glut1 glucose transporter and relative capillary density in blood-brain barrier structures and circumventricular organs during development. Zeller K, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):200–8

Decreased basal and acute insulin-stimulated effect on the uptake of glucose and amino acid in vitro by thyroid glands from streptozotocin-diabetic rats. Machado VL, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1549–55

Blood acidification in the swimbladder: mechanisms and metabolic pathways. Pelster B. **Braz J Med Biol Res** 1995 Nov-Dec;28(11–12):1133–8

Simultaneous but differential metabolism of glucose and cellobiose in Fibrobacter succinogenes cells, studied by in vivo 13C-NMR. Matheron C, et al. **Can J Microbiol** 1996 Nov;42(11):1091–9

Glucose metabolism during exercise in man: the role of insulin and glucagon in the regulation of hepatic glucose production and gluconeogenesis. Lavoie C, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):26–35

Glucose metabolism during exercise in man: the role of insulin in the regulation of glucose utilization. Lavoie C, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):36–43

Insulin downregulates diabetic-enhanced intestinal glucose transport rapidly in ileum and slowly in jejunum. Madsen KL, et al. **Can J Physiol Pharmacol** 1996 Dec; 74(12):1294–301

Synergism between prostaglandin E2 and isoproterenol in stimulating glucose oxidation in the heart. Olley PM, et al. **Can J Physiol Pharmacol** 1996 May;74(5):590–7

Calcium regulation of glycolysis, glucose oxidation, and fatty acid oxidation in the aerobic and ischemic heart. Schönekess BO, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1632–40

Effect of bunazosin and atenolol on glucose metabolism in obese, nondiabetic patients with primary hypertension. Bönner G, et al. **Cardiovasc Drugs Ther** 1997 Mar; 11(1):21–6

The diabetic heart is more sensitive to ischemic injury. Paulson DJ. **Cardiovasc Res** 1997 Apr;34(1):104–12 (116 ref.)

Regulation of intracellular calcium is closely linked to glucose metabolism in J774 macrophages. Darbha S, et al. **Cell Calcium** 1996 Oct;20(4):361–71

Hypertonic glucose impairs glucose-induced increases in cytosol Ca2+ concentration and insulin secretion by HIT-T 15 cells. Sato N, et al. **Cell Calcium** 1996 Sep; 20(3):273–8

Towards the development of a bioartificial pancreas: a 13C NMR study on the effects of alginate/poly-L-lysine/alginate entrapment on glucose metabolism by beta TC3 mouse insulinoma cells. Constantinidis I, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jul;43(5):721–9

Control of insulin secretion and glucose homeostasis in exercising diabetic rats with intrasplenic or kidney subcapsular islet grafts. Houwing H, et al. **Cell Transplant** 1997 Jul-Aug;6(4):413–22

Correlation between decreased myocardial glucose phosphorylation and DNA mutation size in myotonic dystrophy [letter; comment] Hawley RJ, et al. **Circulation** 1997 Mar 18;95(6):1664–5. Comment on: Circulation 1994 Dec;90(6):2629–34.

Glucose metabolism in the ischemic heart [editorial; comment] Lopaschuk GD, et al. **Circulation** 1997 Jan 21; 95(2):313–5 (22 ref.). Comment on: Circulation 1997 Jan 21;95(2):415–22.

Effects of dobutamine stimulation on myocardial blood flow, glucose metabolism, and wall motion in normal and dysfunctional myocardium [see comments] Sun KT, et al. **Circulation** 1996 Dec 15;94(12):3146–54. Comment in: Circulation 1996 Dec 15;94(12):3055–61.

Glucose tolerance, insulin secretion, insulin sensitivity and glucose effectiveness in normal and overweight hyperthyroid women. Gonzalo MA, et al. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):689–97

Insulin action and hepatic glucose cycling in Cushing's syndrome. Heaney AP, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):735–43

An examination of the effects of hypoxia, acidosis, and glucose starvation on the expression of metastasis-associated genes in murine tumor cells. Jang A, et al. **Clin Exp Metastasis** 1997 Sep;15(5):469–83

Elevated glucose concentration and natriuretic peptides receptor response on vascular smooth muscle of

spontaneously hypertensive rats. Yasunari K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S180–2

Glucose turnover and gluconeogenesis during pregnancy in women with and without insulin-dependent diabetes mellitus. Chiasson JL, et al. **Clin Invest Med** 1997 Jun; 20(3):140–51

Gastrointestinal symptoms and diabetes mellitus in children and adolescents [see comments] Vogiatzi MG, et al. **Clin Pediatr (Phila)** 1996 Jul;35(7):343–7. Comment in: Clin Pediatr (Phila) 1997 Mar;36(3):185–6.

Gluconeogenesis and glucose replacement rate during long-term fasting of Japanese quails. Sartori DR, et al. **Comp Biochem Physiol A Physiol** 1996 Oct;115(2):121–5

Effect of mild cold exposure on whole-body and net hindquarters glucose metabolism in sheep. Sano H, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):95–8

Fuzzy filter for state estimation of a glucoregulatory system. Trajanoski Z, et al. **Comput Methods Programs Biomed** 1996 Aug;50(3):265–73

Abnormal mechanical function in diabetes: relationship to altered myocardial carbohydrate/lipid metabolism. Lopaschuk GD. **Coron Artery Dis** 1996 Feb;7(2):116–23 (124 ref.)

Contribution of Na(+)-glucose cotransport to the short-circuit current in the pigmented rabbit conjunctiva [letter; comment] Xiao-ping S, et al. **Curr Eye Res** 1996 Oct;15(10):iii–iv. Comment on: Curr Eye Res 1996 Apr;15(4):447–51.

Weight, blood pressure, osmolarity, and glucose levels across various stages of Alzheimer's disease and vascular dementia. Hogan DB, et al. **Dement Geriatr Cogn Disord** 1997 May–Jun;8(3):147–51

A role for astrocytes in glucose delivery to neurons? Forsyth R, et al. **Dev Neurosci** 1996;18(5–6):360–70 (74 ref.)

[1–13C]glucose metabolism in brain cells: isotopomer analysis of glutamine from cerebellar astrocytes and glutamate from granule cells. Merle M, et al. **Dev Neurosci** 1996; 18(5–6):460–8

Astrocyte glucose metabolism under normal and pathological conditions in vitro. Swanson RA, et al. **Dev Neurosci** 1996; 18(5–6):515–21

Physiological regulation of gastric emptying and glucose absorption. Macdonald IA. **Diabet Med** 1996 Sep;13(9 Suppl 5):S11–5 (12 ref.)

Effects of amylin and the amylin agonist pramlintide on glucose metabolism. Schmitz O, et al. **Diabet Med** 1997 Jun;14 Suppl 2:S19–23 (29 ref.)

Intracellular glucose and fat metabolism in identical twins discordant for non-insulin-dependent diabetes mellitus (NIDDM): acquired versus genetic metabolic defects? Vaag A, et al. **Diabet Med** 1996 Sep;13(9):806–15

Stimulation of islet protein kinase C translocation by palmitate requires metabolism of the fatty acid. Alcázar O, et al. **Diabetes** 1997 Jul;46(7):1153–8

Forearm nitric oxide balance, vascular relaxation, and glucose metabolism in NIDDM patients. Avogaro A, et al. **Diabetes** 1997 Jun;46(6):1040–6

Glucosamine-induced inhibition of liver glucokinase impairs the ability of hyperglycemia to suppress endogenous glucose production. Barzilai N, et al. **Diabetes** 1996 Oct; 45(10):1329–35

Impaired basal glucose effectiveness in NIDDM: contribution of defects in glucose disappearance and production, measured using an optimized minimal model independent protocol. Basu A, et al. **Diabetes** 1997 Mar;46(3):421–32

Role of fatty acids in the pathogenesis of insulin resistance and NIDDM [published erratum appears in Diabetes 1997 Mar;46(3):536] Boden G. **Diabetes** 1997 Jan;46(1):3–10 (74 ref.)

Changes in pancreatic islet glucokinase and hexokinase activities with increasing age, obesity, and the onset of diabetes. Cockburn BN, et al. **Diabetes** 1997 Sep; 46(9):1434–9

CL-316,243, a beta3-specific adrenoceptor agonist, enhances insulin-stimulated glucose disposal in nonobese rats. de Souza CJ, et al. **Diabetes** 1997 Aug;48(8):1257–63

Stimulation of glucose uptake by the natural coenzyme alpha-lipoic acid/thioctic acid: participation of elements of the insulin signaling pathway. Estrada DE, et al. **Diabetes** 1996 Dec;45(12):1798–804

Pioglitazone induces in vivo adipocyte differentiation in the obese Zucker fa/fa rat. Hallakou S, et al. **Diabetes** 1997 Sep;46(9):1393–9

Expression of human hepatic glucokinase in transgenic mice liver results in decreased glucose levels and reduced body weight. Hariharan N, et al. **Diabetes** 1997 Jan;46(1):11–6

D-glucose stimulates mesangial cell GLUT1 expression and basal and IGF-I-sensitive glucose uptake in rat mesangial cells: implications for diabetic nephropathy. Heilig CW, et al. **Diabetes** 1997 Jun;46(6):1030–9

Regulation of insulin secretion from novel engineered insulinoma cell lines. Hohmeier HE, et al. **Diabetes** 1997 Jun;46(6):968–77

Lilly lecture 1995. Glucose transport: pivotal step in insulin action. Kahn BB. **Diabetes** 1996 Nov;45(11):1644–54 (63 ref.)

Fatty acids mediate the acute extrahepatic effects of insulin on hepatic glucose production in humans. Lewis GF, et al. **Diabetes** 1997 Jul;46(7):1111–9

Myocardial glucose uptake in patients with NIDDM and stable coronary artery disease. Mäki M, et al. **Diabetes** 1997 Sep;46(9):1491–6

Augmentation of hepatic glucose uptake by a positive glucose gradient between hepatoportal and central nervous systems. Matsuhisa M, et al. **Diabetes** 1997 Jul;46(7):1101–5

The effect of pioglitazone on hepatic glucose uptake measured with indirect and direct methods in alloxan-induced diabetic dogs. Matsuhisa M, et al. **Diabetes** 1997 Feb;46(2):224–31

Preserved GLP-I effects on glycogen synthase a activity and glucose metabolism in isolated hepatocytes and skeletal muscle from diabetic rats. Morales M, et al. **Diabetes** 1997 Aug;48(8):1264–9

Leptin directly alters lipid partitioning in skeletal muscle. Muoio DM, et al. **Diabetes** 1997 Aug;48(8):1360–3

Mechanisms of the kinetic defect in insulin action in obesity and NIDDM. Nolan JJ, et al. **Diabetes** 1997 Jun; 46(6):994–1000

Evidence of increased systemic glucose production and gluconeogenesis in an early stage of NIDDM. Perriello G, et al. **Diabetes** 1997 Jun;46(6):1010–6

Evidence for dissociation of insulin stimulation of blood flow and glucose uptake in human skeletal muscle: studies using [15O]H2O, [18F]fluoro-2-deoxy-D-glucose, and positron emission tomography. Raitakari M, et al. **Diabetes** 1996 Nov;45(11):1471–7

The role of fatty acids in mediating the effects of peripheral insulin on hepatic glucose production in the conscious dog. Sindelar DK, et al. **Diabetes** 1997 Feb;46(2):187–96

Epidermal growth factor induces glucose storage in transgenic 3T3-L1 adipocytes overexpressing epidermal growth factor receptors. Van Epps-Fung M, et al. **Diabetes** 1996 Nov;45(11):1619–25

Incorporation of [3-3H]glucose and 2-[1-14C]deoxyglucose into glycogen in heart and skeletal muscle in vivo: implications for the quantitation of tissue glucose uptake. Virkamäki A, et al. **Diabetes** 1997 Jul;46(7):1106–10

Skeletal muscle content of membrane glycoprotein PC-1 in obesity. Relationship to muscle glucose transport. Youngren JF, et al. **Diabetes** 1996 Oct;45(10):1324–8

Role of glucose effectiveness in the determination of glucose tolerance. Best JD, et al. **Diabetes Care** 1996 Sep; 19(9):1018–30 (102 ref.)

American Diabetes Association Postgraduate Course, 1996: Monitoring glucose, defining diabetes, and treating obesity [news] Bloomgarden ZT. **Diabetes Care** 1996 Jun; 19(6):676–9

Acute effects of intraperitoneal versus subcutaneous insulin delivery on glucose homeostasis in patients with NIDDM. Veterans Affairs Implantable Insulin Pump Study Group. Kelley DE, et al. **Diabetes Care** 1996 Nov;19(11):1237–42

Glucose and amino acid turnover in untreated gestational diabetes. Zimmer DM, et al. **Diabetes Care** 1996 Jun; 19(6):591–6

In vivo studies of intrahepatic metabolic pathways. Beylot M, et al. **Diabetes Metab** 1997 Jun;23(3):251–7 (54 ref.)

Cerebral energy metabolism, glucose transport and blood flow: changes with maturation and adaptation to hypoglycaemia. Nehlig A. **Diabetes Metab** 1997 Feb; 23(1):18–29 (133 ref.)

Interactions between glucose and FFA metabolism in man. Saloranta C, et al. **Diabetes Metab Rev** 1996 Apr; 12(1):15–36 (187 ref.)

Effect of a novel hypoglycemic agent, KAD-1229 on glucose metabolism and fructose-2,6-bisphosphate content in isolated hepatocytes of normal rats. Nakashima E, et al. **Diabetes Res Clin Pract** 1996 Sep;34(1):13–22

The effects of oophorectomy and female sex steroids on glucose kinetics in the rat. Nolan C, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):181–8

Renal threshold for glucose in non-insulin-dependent diabetic patients. Ruhnau B, et al. **Diabetes Res Clin Pract** 1997 Apr;36(1):27–33

TNF-alpha stimulates glucose uptake in L6 myoblasts. Yamasaki H, et al. **Diabetes Res Clin Pract** 1996 Apr; 32(1–2):11–8

Leptin stimulates glucose transport and glycogen synthesis in C2C12 myotubes: evidence for a P13-kinase mediated effect. Berti L, et al. **Diabetologia** 1997 May;40(5):606–9

Insulin resistance and coronary artery disease [published erratum appears in Diabetologia 1997 Mar;40(3):366] Bressler P, et al. **Diabetologia** 1996 Nov;39(11):1345–50

Accelerated gastric emptying of glucose in Zucker type 2 diabetic rats: role in postprandial hyperglycaemia. Green GM, et al. **Diabetologia** 1997 Feb;40(2):136–42

Beta-cell hypersensitivity to glucose following 24-h exposure of rat islets to fatty acids. Hosokawa H, et al. **Diabetologia** 1997 Apr;40(4):392–7

Abnormal glucose transport and GLUT1 cell-surface content in fibroblasts and skeletal muscle from NIDDM and obese subjects. Miele C, et al. **Diabetologia** 1997 Apr;40(4):421–9

Endogenous glucose production, gluconeogenesis and liver glycogen concentration in obese non-diabetic patients. Müller C, et al. **Diabetologia** 1997 Apr;40(4):463–8

The pancreatic beta-cell as a fuel sensor: an electrophysiologist's viewpoint. Rorsman P. **Diabetologia** 1997 May;40(5):487–95 (56 ref.)

Is GLUT2 required for glucose sensing? Schuit FC. **Diabetologia** 1997 Jan;40(1):104–11 (67 ref.)

Renal glucose production and utilization: new aspects in humans. Stumvoll M, et al. **Diabetologia** 1997 Jul; 40(7):749–57 (89 ref.)

Are there kinetic advantages of GLUT2 in pancreatic glucose sensing? Sweet IR, et al. **Diabetologia** 1997 Jan;40(1):112–9 (16 ref.)

Dissociation between insulin sensitivity of glucose uptake and endothelial function in normal subjects. Utriainen T, et al. **Diabetologia** 1996 Dec;39(12):1477–82

Hypoglycaemic effect of AICAriboside in mice. Vincent MF, et al. **Diabetologia** 1996 Oct;39(10):1148–55

Interactions of elastin and aorta with sugars in vitro and their effects on biochemical and physical properties. Winlove CP, et al. **Diabetologia** 1996 Oct;39(10):1131–9

Insulin action on glucose transport and plasma membrane GLUT4 content in skeletal muscle from patients with NIDDM. Zierath JR, et al. **Diabetologia** 1996 Oct; 39(10):1180–9

Drug-induced disorders of glucose metabolism. Mechanisms and management. Chan JC, et al. **Drug Saf** 1996 Aug; 15(2):135–57 (280 ref.)

Cerebral metabolic rate for glucose after neonatal hypoglycaemia. Kinnala A, et al. **Early Hum Dev** 1997 Jul 24;49(1):63–72

Chronic low dose islet amyloid polypeptide infusion reduces food intake, but does not influence glucose metabolism, in unrestrained conscious rats: studies using a novel aortic catheterization technique. Arnelo U, et al. **Endocrinology** 1997 Oct;138(10):4081–5

Interleukin (IL)-1beta increases glucose uptake and induces glycolysis in aerobically cultured rat ovarian cells: evidence that IL-1beta may mediate the gonadotropin-induced midcycle metabolic shift. Ben-Shlomo I, et al. **Endocrinology** 1997 Jul;138(7):2680–8

In vivo insulin-dependent glucose uptake of specific tissues is decreased during aging of mature Wistar rats. Escriva F, et al. **Endocrinology** 1997 Jan;138(1):49–54

Acute and chronic exposure to tumor necrosis factor-alpha fails to affect insulin-stimulated glucose metabolism of isolated rat soleus muscle. Fürnsinn C, et al. **Endocrinology** 1997 Jul;138(7):2674–9

Epiandrosterone and dehydroepiandrosterone affect glucose oxidation and interleukin-1 beta effects in pancreatic islets. Laychock SG, et al. **Endocrinology** 1996 Aug; 137(8):3375–85

Glucose transporter GLUT3 in the rat placental barrier: a possible machinery for the transplacental transfer of glucose. Shin BC, et al. **Endocrinology** 1997 Sep; 138(9):3997–4004

Troglitazone enhances differentiation, basal glucose uptake, and Glut1 protein levels in 3T3-L1 adipocytes. Tafuri SR. **Endocrinology** 1996 Nov;137(11):4706–12

Cortical hypometabolism and delayed myelination in West syndrome. Natsume J, et al. **Epilepsia** 1996 Dec; 37(12):1180–4

Cerebellar hypometabolism in focal epilepsy is related to age of onset and drug intoxication. Seitz RJ, et al. **Epilepsia** 1996 Dec;37(12):1194–9

Skeletal muscle alterations in patients with chronic heart failure. Schaufelberger M, et al. **Eur Heart J** 1997 Jun; 18(6):971–80

Glutamine inhibits the lowering effect of glucose on the level of phosphoenolpyruvate carboxykinase mRNA in isolated rat hepatocytes. Lavoinne A, et al. **Eur J Biochem** 1996 Dec 15;242(3):537–43

Inositol phospholipid 3-kinase is activated by cellular stress but is not required for the stress-induced activation of glucose transport in L6 rat skeletal muscle cells. McDowell HE, et al. **Eur J Biochem** 1997 Jul 1;247(1):306–13

Mathematical model for evaluating the Krebs cycle flux with non-constant glutamate-pool size by 13C-NMR spectroscopy. Evidence for the existence of two types of Krebs cycles in cells. Tran-Dinh S, et al. **Eur J Biochem** 1996 Dec 1;242(2):220–7

The effects of insulin on transport and metabolism of glucose in skeletal muscle from hyperthyroid and hypothyroid rats. Dimitriadis G, et al. **Eur J Clin Invest** 1997 Jun; 27(6):475–83

Measurement of post-absorptive glucose kinetics in non-insulin-dependent diabetic patients: methodological aspects. Rigalleau V, et al. **Eur J Clin Invest** 1996 Mar; 26(3):231–6

What's the RAGE? The receptor for advanced glycation end products (RAGE) and the dark side of glucose. Yan SD, et al. **Eur J Clin Invest** 1997 Mar;27(3):179–81 (20 ref.)

The effects of monounsaturated-fat enriched diet and polyunsaturated-fat enriched diet on lipid and glucose metabolism in subjects with impaired glucose tolerance. Sarkkinen E, et al. **Eur J Clin Nutr** 1996 Sep;50(9):592–8

Upstream of Randle. Hussain MA. **Eur J Endocrinol** 1997 Mar;136(3):273–4

New knowledge regarding glucose-6 phosphatase gene and protein and their roles in the regulation of glucose metabolism. Mithieux G. **Eur J Endocrinol** 1997 Feb; 136(2):137–45 (66 ref.)

Differential temporal evolution of post-training changes in regional brain glucose metabolism induced by repeated spatial discrimination training in mice: visualization of the memory consolidation process? Bontempi B, et al. **Eur J Neurosci** 1996 Nov;8(11):2348–60

Brain glucose utilization in systemic lupus erythematosus with neuropsychiatric symptoms: a controlled positron emission tomography study. Otte A, et al. **Eur J Nucl Med** 1997 Jul;24(7):787–91

Measurement of glucose turnover—implications for the study of inborn errors of metabolism. Halliday D, et al.

Eur J Pediatr 1997 Aug;156 Suppl 1:S35–8 (24 ref.)
Synthesis of glucose–chlorambucil derivatives and their recognition by the human GLUT1 glucose transporter. Halmos T, et al. **Eur J Pharmacol** 1996 Dec 30; 318(2–3):477–84
Action of anti–inflammatory drugs on interleukin–1 beta–mediated glucose uptake by synoviocytes. Hernvann A, et al. **Eur J Pharmacol** 1996 Oct 24;314(1–2):193–6
Intravenous morphine increases glucose utilization in the shell of the rat nucleus accumbens. Orzi F, et al. **Eur J Pharmacol** 1996 Apr 29;302(1–3):49–51
Lack of effect of calcitonin gene–related peptide and amylin on major markers of glucose metabolism in hepatocytes. Pittner RA. **Eur J Pharmacol** 1997 May 1;325(2–3):189–97
Interregional correlation of cerebral glucose metabolism in unmedicated schizophrenia. Biver F, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):141–7
Differential psychopathology and patterns of cerebral glucose utilisation produced by (S)– and (R)–ketamine in healthy volunteers using positron emission tomography (PET). Vollenweider FX, et al. **Eur Neuropsychopharmacol** 1997 Feb;7(1):25–38
Dissociation of neutrophil emigration and metabolic activity in lobar pneumonia and bronchiectasis [see comments] Jones HA, et al. **Eur Respir J** 1997 Apr;10(4):795–803. Comment in: Eur Respir J 1997 Apr;10(4):770–1.
In vitro metabolic competence of the frog retina: effects of glucose and oxygen deprivation. Fliesler SJ, et al. **Exp Eye Res** 1997 May;64(5):683–92
Aging, metabolism, and Alzheimer disease: review and hypotheses. Finch CE, et al. **Exp Neurol** 1997 Jan; 143(1):82–102 (218 ref.)
Responses of glucose metabolism to insulin in perfused mammary tissue of lactating rats: influence of dietary history and recent insulin experience. Calvert DT, et al. **Exp Physiol** 1996 Jan;81(1):131–40
Glucose, lactate and oxygen metabolism in the fetal pig during late gestation. Fowden AL, et al. **Exp Physiol** 1997 Jan;82(1):171–82
Accumulation of xylitol in the mammalian lens is related to glucuronate metabolism. Goode D, et al. **FEBS Lett** 1996 Oct 21;395(2–3):174–8
Increased glucose transport in ras–transformed fibroblasts: a possible role for N–glycosylation of GLUT1. Onetti R, et al. **FEBS Lett** 1997 May 5;407(3):267–70
Sensing by intrahepatic muscarinic nerves of a portal–arterial glucose concentration gradient as a signal for insulin–dependent glucose uptake in the perfused rat liver. Stümpel F, et al. **FEBS Lett** 1997 Apr 7;406(1–2):119–22
Overexpression of either liver type or pancreatic beta cell type glucokinase via recombinant adenovirus enhances glucose oxidation in isolated rat hepatocytes. Takeuchi H, et al. **FEBS Lett** 1996 Sep 9;393(1):60–4
Biochemical characterization of a mutant of the yeast Pichia anomala derepressed for malic acid utilization in the presence of glucose. Amador P, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):227–31
13C–NMR study of glucose and pyruvate catabolism in four acetogenic species isolated from the human colon. Leclerc M, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):199–204
The glycolytic function of hexokinases is not required for catabolite repression in Candida utilis. Espinel AE, et al. **Folia Microbiol (Praha)** 1996;41(1):88–9
Modelling glucose transport in Saccharomyces cerevisiae DFY1 in different growth phases. Fuhrmann GF, et al. **Folia Microbiol (Praha)** 1996;41(1):91–2
Glucose transport in Schizosaccharomyces pombe. Völker B, et al. **Folia Microbiol (Praha)** 1996;41(1):128
Glucose modification of human serum albumin: a structural study. Coussons PJ, et al. **Free Radic Biol Med** 1997; 22(7):1217–27
Iron (II) ions induced oxidation of ascorbic acid and glucose. Mlakar A, et al. **Free Radic Res** 1996 Dec;25(6):525–39
NA+/K+ ATPase impairment and experimental glycation: the role of glucose autoxidation. Santini SA, et al. **Free Radic Res** 1996 May;24(5):381–9
Oxyntomodulin stimulates intestinal glucose uptake in rats. Collie NL, et al. **Gastroenterology** 1997 Jun;112(6):1961–70
Parenteral nutrition modifies glucose and glutamine metabolism in rat isolated enterocytes. Colomb V, et al. **Gastroenterology** 1997 Feb;112(2):429–36
Inhibition of glucose absorption in the rat jejunum: a novel action of alpha–D–glucosidase inhibitors. Hirsh AJ, et al. **Gastroenterology** 1997 Jul;113(1):205–11
The effects of insulin/IGF–I on glucose and leucine metabolism in the redclaw crayfish (Cherax quadricarinatus). Richardson NA, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):287–93
Mechanism responsible for glucose–lactose diauxie in Escherichia coli: challenge to the cAMP model. Inada T, et al. **Genes Cells** 1996 Mar;1(3):293–301
rco–3, a gene involved in glucose transport and conidiation in Neurospora crassa. Madi L, et al. **Genetics** 1997 Jun; 146(2):499–508
Decline in glucose metabolism in the brain in neuronal ceroid lipofuscinosis (NCL) in English setter––evidence by positron emission tomography (PET). Kitani K, et al. **Gerontology** 1995;41 Suppl 2:249–57
Does astrocytic glycogen benefit axon function and survival in CNS white matter during glucose deprivation? Ransom BR, et al. **Glia** 1997 Sep;21(1):134–41 (53 ref.)
Endothelin–1 regulates glucose utilization in cultured astrocytes by controlling intercellular communication through gap junctions. Tabernero A, et al. **Glia** 1996 Mar; 16(3):187–95
The nutritive function of glia is regulated by signals released by neurons. Tsacopoulos M, et al. **Glia** 1997 Sep; 21(1):84–91
Glucose transporter proteins in brain: delivery of glucose to neurons and glia. Vannucci SJ, et al. **Glia** 1997 Sep; 21(1):2–21 (140 ref.)
Metabolic pathways for glucose in astrocytes. Wiesinger H, et al. **Glia** 1997 Sep;21(1):22–34 (172 ref.)
Nutrient regulation of human intestinal sugar transporter (SGLT1) expression. Dyer J, et al. **Gut** 1997 Jul;41(1):56–9
Rapid enhancement of brush border glucose uptake after exposure of rat jejunal mucosa to glucose. Sharp PA, et al. **Gut** 1996 Oct;39(4):545–50
Measurement of glucose and water transport in the human duodenum in vivo using a dialysis bag. Rolston DD. **Hepatogastroenterology** 1997 Jan–Feb;44(13):68–71
Jejunal pouch length influences metabolism after total gastrectomy. Tanaka T, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):891–6
Inhibition of anaphylatoxin C3a– and C5a– but not nerve stimulation– or Noradrenaline–dependent increase in glucose output and reduction of flow in Kupffer cell–depleted perfused rat livers. Püschel GP, et al. **Hepatology** 1996 Sep;24(3):685–90
Effects of brain death and glucose infusion on hepatic glycogen and blood hormones in the pig. Roelsgaard K, et al. **Hepatology** 1996 Oct;24(4):871–5
Insulin regulation of vascular smooth muscle glucose transport in insulin–sensitive and resistant rats. Banz WJ, et al. **Horm Metab Res** 1996 Jun;28(6):271–5
Long–term effect of prolactin treatment on glucose–induced insulin secretion in cultured neonatal rat islets. Crepaldi SC, et al. **Horm Metab Res** 1997 May;29(5):220–4
The effect of in vivo thyroxine treatment on insulin receptors, glucose transport and GLUT4 in rat adipocytes. Fickova M, et al. **Horm Metab Res** 1997 Jan;29(1):16–9
GLUT1 is adequate for glucose uptake in GLUT2–deficient insulin–releasing beta–cells. Liang Y, et al. **Horm Metab Res** 1997 Jun;29(6):255–60
Effect of dehydroepiandrosterone on glucose uptake in cultured rat myoblasts. Nakashima N, et al. **Horm Metab Res** 1995 Nov;27(11):491–4
Efficacy of intra–arterial norcantharidin in suppressing tumour 14C–labelled glucose oxidative metabolism in rat Morris hepatoma. Mack P, et al. **HPB Surg** 1996; 10(2):65–72
The application of positron emission tomography to the study of the normal menstrual cycle. Reiman EM, et al. **Hum Reprod** 1996 Dec;11(12):2799–805
Modified antigen–binding of human antibodies with glycosylation variations of the light chains produced in sugar–limited human hybridoma cultures. Tachibana H, et al. **In Vitro Cell Dev Biol Anim** 1996 Mar;32(3):178–83
Glucose up–regulates expression of the differentiation–associated brush border binding site for enterotoxigenic Escherichia coli colonization factor antigen I in cultured human enterocyte–like cells. Bernet–Camard MF, et al. **Infect Immun** 1997 Apr;65(4):1299–306
Glucose absorption and utilization by rat embryos. Shepard TH, et al. **Int J Dev Biol** 1997 Apr;41(2):307–14
Brain hypometabolism of glucose in bulimia nervosa. Delvenne V, et al. **Int J Eat Disord** 1997 May;21(4):313–20
Brain hyperthermia alters local cerebral glucose utilization: a comparison of hyperthermic agents. Mickley GA, et al. **Int J Hyperthermia** 1997 Jan–Feb;13(1):99–114
A NMR study of parasitized Tenebrio molitor and Hymenolepis diminuta cysticercoids. Schoen J, et al. **Int J Parasitol** 1996 Jul;26(7):713–22
Oxidation of 13C–glucose and 13C–fructose ingested as a preexercise meal: effect of carbohydrate ingestion during exercise. Burelle Y, et al. **Int J Sport Nutr** 1997 Jun; 7(2):117–27
Breath–by–breath measurements for the analysis of exogenous glucose oxidation during intense endurance exercise using [13C]–isotopes. Röcker K, et al. **Int J Sports Med** 1996 Oct;17(7):480–6
Transport of glucose across the blood–tissue barriers. Takata K, et al. **Int Rev Cytol** 1997;172:1–53 (320 ref.)
Divergent effects of octreotide on glucose tolerance in patients with acromegaly [editorial; comment] Hizuka N. **Intern Med** 1997 May;36(5):319–20. Comment on: Intern Med 1997 May;36(5):345–50.
Glucose metabolism in cat outer retina. Effects of light and hyperoxia. Wang L, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):48–55
Glucose dependence of glycolysis, hexose monophosphate shunt activity, energy status, and the polyol pathway in retinas isolated from normal (nondiabetic) rats [see comments] Winkler BS, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):62–71. Comment in: Invest Ophthalmol Vis Sci 1997 Jul;38(8):1467–70.
Brain hypometabolism of glucose in low–weight depressed patients and in anorectic patients: a consequence of starvation? Delvenne V, et al. **J Affect Disord** 1997 Jun; 44(1):69–77
Enhanced myocardial 18F–2–fluoro–2–deoxyglucose uptake after orthotopic heart transplantation assessed by positron emission tomography. Rechavia E, et al. **J Am Coll Cardiol** 1997 Aug;30(2):533–8
Glucose metabolism in older adults: a study including subjects more than 80 years of age. Garcia GV, et al. **J Am Geriatr Soc** 1997 Jul;45(7):813–7
Decreased insulin action on muscle glucose transport after eccentric contractions in rats. Asp S, et al. **J Appl Physiol** 1996 Nov;81(5):1924–8
Prior eccentric contractions impair maximal insulin action on muscle glucose uptake in the conscious rat. Asp S, et al. **J Appl Physiol** 1997 Apr;82(4):1327–32
Evidence that nitric oxide increases glucose transport in skeletal muscle. Balon TW, et al. **J Appl Physiol** 1997 Jan; 82(1):359–63
Glucose kinetics during high–intensity exercise and the crossover concept [letter; comment] Brooks GA, et al. **J Appl Physiol** 1996 Mar;80(3):1073–5. Comment on: J Appl Physiol 1995 Mar;78(3):1203–7.
Distinct effects of aerobic exercise training and weight loss on glucose homeostasis in obese sedentary men. Dengel DR, et al. **J Appl Physiol** 1996 Jul;81(1):318–25
Training–induced alterations of glucose flux in men. Friedlander AL, et al. **J Appl Physiol** 1997 Apr; 82(4):1360–9
Effects of ovariectomy and exercise training on muscle GLUT–4 content and glucose metabolism in rats. Hansen PA, et al. **J Appl Physiol** 1996 May;80(5):1605–11
Role of glucose transport in glycogen supercompensation in reweighted rat skeletal muscle. Henriksen EJ, et al. **J Appl Physiol** 1996 May;80(5):1540–6
Sherpa brain glucose metabolism and defense adaptations against chronic hypoxia. Hochachka PW, et al. **J Appl Physiol** 1996 Sep;81(3):1355–61
Voluntary exercise training enhances glucose transport in muscle stimulated by insulin–like growth factor I. Hokama JY, et al. **J Appl Physiol** 1997 Feb;82(2):508–12
Smoking increases conversion of lactate to glucose during submaximal exercise. Huie MJ, et al. **J Appl Physiol** 1996 May;80(5):1554–9
Reduced oxidation rates of ingested glucose during prolonged exercise with low endogenous CHO availability. Jeukendrup AE, et al. **J Appl Physiol** 1996 Nov; 81(5):1952–7
Exogenous glucose oxidation during exercise in endurance–trained and untrained subjects. Jeukendrup AE, et al. **J Appl Physiol** 1997 Mar;82(3):835–40
Dietary fat modifies exercise–dependent glucose transport in skeletal muscle. Liu S, et al. **J Appl Physiol** 1996 Apr; 80(4):1219–24
Respective oxidation of 13C–labeled lactate and glucose ingested simultaneously during exercise. Péronnet F, et al. **J Appl Physiol** 1997 Feb;82(2):440–6
Effects of training duration on substrate turnover and oxidation during exercise. Phillips SM, et al. **J Appl Physiol** 1996 Nov;81(5):2182–91
Altitude and beta–blockade augment glucose utilization during submaximal exercise. Roberts AC, et al. **J Appl Physiol** 1996 Feb;80(2):605–15
Wortmannin inhibits both insulin– and contraction–stimulated glucose uptake and transport in rat skeletal muscle. Wojtaszewski JF, et al. **J Appl Physiol** 1996 Oct; 81(4):1501–9
Perchloroethylene–induced alterations in glucose metabolism and their prevention by 2–deoxy–D–glucose and vitamin E in mice. Ebrahim AS, et al. **J Appl Toxicol** 1996 Jul–Aug; 16(4):339–48
Modulation of central nervous system metabolism by macromolecules: effects of albumin and histones on glucose oxidation by synaptosomes. Tildon JT, et al. **J Assoc Acad Minor Phys** 1996;7(2):47–52
Glucose uptake in Kluyveromyces lactis: role of the HGT1 gene in glucose transport. Billard P, et al. **J Bacteriol** 1996 Oct;178(20):5860–6
Pathways for utilization of carbon reserves in Desulfovibrio gigas under fermentative and respiratory conditions. Fareleira P, et al. **J Bacteriol** 1997 Jun;179(12):3972–80
13C nuclear magnetic resonance analysis of glucose and citrate end products in an ldhL–ldhD double–knockout strain of Lactobacillus plantarum. Ferain T, et al. **J Bacteriol** 1996 Dec;178(24):7311–5
Biochemical basis for glucose–induced inhibition of malolactic fermentation in Leuconostoc oenos. Miranda M, et al. **J Bacteriol** 1997 Sep;179(17):5347–54
A two–component response regulator, gltR, is required for glucose transport activity in Pseudomonas aeruginosa PAO1. Sage AE, et al. **J Bacteriol** 1996 Oct;178(20):6064–6
Primary structure and properties of the Na+/glucose symporter (Sg1S) of Vibrio parahaemolyticus. Sarker RI, et al. **J Bacteriol** 1997 Mar;179(5):1805–8
Interruption of the phosphoglucose isomerase gene results in glucose auxotrophy in Mycobacterium smegmatis. Tuckman D, et al. **J Bacteriol** 1997 Apr;179(8):2724–30
Expression of beta3–adrenoceptor and stimulation of glucose transport by beta3–agonists in brown adipocyte primary culture. Nikami H, et al. **J Biochem (Tokyo)** 1996 Jan; 119(1):120–5
The beta3–adrenergic agonist BRL37344 increases glucose transport into L6 myocytes through a mechanism different from that of insulin. Tanishita T, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):90–5
Protective action of dehydroascorbic acid on the Ah receptor–dependent and receptor–independent induction of lipid peroxidation in adipose tissue of male guinea pig caused by TCDD administration. Ashida H, et al.

J Biochem Toxicol 1996;11(6):269–78
Stimulation of glucose-6-phosphatase gene expression by glucose and fructose-2,6-bisphosphate. Argaud D, et al. **J Biol Chem** 1997 May 9;272(19):12854–61
In skeletal muscle, glucose storage and oxidation are differentially impaired by the IR1152 mutant receptor. Caruso M, et al. **J Biol Chem** 1997 Mar 14;272(11):7290–7
Carbon isotope effects on the fructose-1,6-bisphosphate aldolase reaction, origin for non-statistical 13C distributions in carbohydrates. Gleixner G, et al. **J Biol Chem** 1997 Feb 28;272(9):5382–7
The tissue concentration of UDP-N-acetylglucosamine modulates the stimulatory effect of insulin on skeletal muscle glucose uptake. Hawkins M, et al. **J Biol Chem** 1997 Feb 21;272(8):4889–95
Analysis of thermal injury-induced insulin resistance in rodents. Implication of postreceptor mechanisms. Ikezu T, et al. **J Biol Chem** 1997 Oct 3;272(40):25289–95
13C and 31P NMR studies on the effects of increased plasma free fatty acids on intramuscular glucose metabolism in the awake rat. Jucker BM, et al. **J Biol Chem** 1997 Apr 18; 272(16):10464–73
Expression of a constitutively active Akt Ser/Thr kinase in 3T3-L1 adipocytes stimulates glucose uptake and glucose transporter 4 translocation. Kohn AD, et al. **J Biol Chem** 1996 Dec 6;271(49):31372–8
The regulatory role for magnesium in glycolytic flux of the human erythrocyte. Laughlin MR, et al. **J Biol Chem** 1996 Nov 15;271(46):28977–83
A synthetic peptide corresponding to the GLUT4 C-terminal cytoplasmic domain causes insulin-like glucose transport stimulation and GLUT4 recruitment in rat adipocytes. Lee W, et al. **J Biol Chem** 1997 Aug 22;272(34):21427–31
Interleukin-1 reduces the glycolytic utilization of glucose by pancreatic islets and reduces glucokinase mRNA content and protein synthesis by a nitric oxide-dependent mechanism. Ma Z, et al. **J Biol Chem** 1997 Jul 11; 272(28):17827–35
The hemopoietic growth factor, interleukin-3, promotes glucose transport by increasing the specific activity and maintaining the affinity for glucose of plasma membrane glucose transporters. McCoy KD, et al. **J Biol Chem** 1997 Jul 11;272(28):17276–82
Asparagine 394 in putative helix 11 of the galactose-H+ symport protein (GalP) from Escherichia coli is associated with the internal binding site for cytochalasin B and sugar. McDonald TP, et al. **J Biol Chem** 1997 Jun 13; 272(24):15189–99
Biophysical characteristics of the pig kidney Na+/glucose cotransporter SGLT2 reveal a common mechanism for SGLT1 and SGLT2. Mackenzie B, et al. **J Biol Chem** 1996 Dec 20;271(51):32678–83
Glucose catabolism in cancer cells. The type II hexokinase promoter contains functionally active response elements for the tumor suppressor p53. Mathupala SP, et al. **J Biol Chem** 1997 Sep 5;272(36):22776–80
Overexpression of Rad inhibits glucose uptake in cultured muscle and fat cells. Moyers JS, et al. **J Biol Chem** 1996 Sep 20;271(38):23111–6
Initiation of glycogen synthesis in yeast. Requirement of multiple tyrosine residues for function of the self-glucosylating Glg proteins in vivo. Mu J, et al. **J Biol Chem** 1996 Oct 25;271(43):26554–60
Engineering of glycerol-stimulated insulin secretion in islet beta cells. Differential metabolic fates of glucose and glycerol provide insight into mechanisms of stimulus-secretion coupling. Noel RJ, et al. **J Biol Chem** 1997 Jul 25;272(30):18621–7
Human fibroblasts prefer mannose over glucose as a source of mannose for N-glycosylation. Evidence for the functional importance of transported mannose. Panneerselvam K, et al. **J Biol Chem** 1997 Sep 12; 272(37):23123–9
Metabolic fate of glucose in purified islet cells. Glucose-regulated anaplerosis in beta cells. Schuit F, et al. **J Biol Chem** 1997 Jul 25;272(30):18572–9
Adenovirus-mediated expression of the catalytic subunit of glucose-6-phosphatase in INS-1 cells. Effects on glucose cycling, glucose usage, and insulin secretion. Trinh K, et al. **J Biol Chem** 1997 Oct 3;272(40):24837–42
Glucose-dependent liver gene expression in upstream stimulatory factor 2 -/- mice. Vallet VS, et al. **J Biol Chem** 1997 Aug 29;272(35):21944–9
The influence of serum for spreading of tumor cells on synthetic glycolipid films. Sato T, et al. **J Biomater Sci Polym Ed** 1995;7(7):587–99
Kinetic analysis of ethanol production from glucose fermentation by yeast cells immobilized onto ceramic supports. Zhang Y, et al. **J Biomater Sci Polym Ed** 1996; 7(12):1119–26
Thrombin stimulates glucose transport in human platelets via the translocation of the glucose transporter GLUT-3 from alpha-granules to the cell surface. Heijnen HF, et al. **J Cell Biol** 1997 Jul 28;138(2):323–30
Insulin unmasks a COOH-terminal Glut4 epitope and increases glucose transport across T-tubules in skeletal muscle. Wang W, et al. **J Cell Biol** 1996 Oct;135(2):415–30
GLUT1-mediated glucose transport and its regulation by IGF-I in cultured bovine chromaffin cells. Fladeby C, et al. **J Cell Physiol** 1996 Nov;169(2):242–7
GABAA receptor activation attenuates excitotoxicity but exacerbates oxygen-glucose deprivation-induced neuronal injury in vitro. Muir JK, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1211–8
Cerebral glucose utilization is reduced in second test session. Stapleton JM, et al. **J Cereb Blood Flow Metab** 1997 Jun; 17(6):704–12
Autoradiographic evidence for flow-metabolism uncoupling during stimulation of the nucleus basalis of Meynert in the conscious rat. Vaucher E, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):686–94
Exercise-induced changes in local cerebral glucose utilization in the rat. Vissing J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):729–36
Distribution of Glut1 glucose transporters in different brain structures compared to glucose utilization and capillary density of adult rat brains. Zeller K, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):204–9
Central nervous system perfusion and metabolism abnormalities in Sturge-Weber syndrome. Reid DE, et al. **J Child Neurol** 1997 Apr;12(3):218–22
Ethanol impairs insulin-mediated glucose uptake by an indirect mechanism. Avogaro A, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2285–90
Pancreatic polypeptide administration improves abnormal glucose metabolism in patients with chronic pancreatitis. Brunicardi FC, et al. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3566–72
Metabolic effects of metformin on glucose and lactate metabolism in noninsulin-dependent diabetes mellitus. Cusi K, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4059–67
Inhibition of lipolysis stimulates whole body glucose production and disposal in normal postabsorptive subjects. Fery F, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):825–30
Growth hormone treatment of abdominally obese men reduces abdominal fat mass, improves glucose and lipoprotein metabolism, and reduces diastolic blood pressure [see comments] Johannsson G, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):727–34. Comment in: J Clin Endocrinol Metab 1997 Mar;82(3):725–6.
Effect of dietary protein intake on insulin secretion and glucose metabolism in insulin-dependent diabetes mellitus. Linn T, et al. **J Clin Endocrinol Metab** 1996 Nov; 81(11):3938–43
Glucose metabolism in identical twins discordant for obesity. The critical role of visceral fat. Rönnemaa T, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):383–7
Effects of hepatic glycogen content on hepatic insulin action in humans: alteration in the relative contributions of glycogenolysis and gluconeogenesis to endogenous glucose production. Wise S, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1828–33
Effects of abstinence and relapse upon neuropsychological function and cerebral glucose metabolism in severe chronic alcoholism. Johnson-Greene D, et al. **J Clin Exp Neuropsychol** 1997 Jun;19(3):378–85
Glucose effectiveness assessed under dynamic and steady state conditions. Comparability of uptake versus production components. Ader M, et al. **J Clin Invest** 1997 Mar 15; 99(6):1187–99
Insulin sensitivity index, acute insulin response, and glucose effectiveness in a population-based sample of 380 young healthy Caucasians. Analysis of the impact of gender, body fat, physical fitness, and life-style factors. Clausen JO, et al. **J Clin Invest** 1996 Sep 1;98(5):1195–209
Mechanism of impaired insulin-stimulated muscle glucose metabolism in subjects with insulin-dependent diabetes mellitus. Cline GW, et al. **J Clin Invest** 1997 May 1; 99(9):2219–24
The midcycle increase in ovarian glucose uptake is associated with enhanced expression of glucose transporter 3. Possible role for interleukin-1, a putative intermediary in the ovulatory process. Kol S, et al. **J Clin Invest** 1997 May 1;99(9):2274–83
Impaired glucose homeostasis in insulin-like growth factor binding protein-1 transgenic mice. Rajkumar K, et al. **J Clin Invest** 1996 Oct 15;98(8):1818–25
Vascular dysfunction induced by elevated glucose levels in rats is mediated by vascular endothelial growth factor. Tilton RG, et al. **J Clin Invest** 1997 May 1;99(9):2192–202
Muscle-specific transgenic complementation of GLUT4-deficient mice. Effects on glucose but not lipid metabolism. Tsao TS, et al. **J Clin Invest** 1997 Aug 1; 100(3):671–7
Hibernation enhances D-glucose uptake by intestinal brush border membrane vesicles in ground squirrels. Carey HV, et al. **J Comp Physiol [B]** 1996;166(4):254–61
An investigation of multiple time/graphical analysis applied to projection data: theory and validation. Maguire RP, et al. **J Comput Assist Tomogr** 1997 Mar-Apr;21(2):327–31
Non-insulin- and insulin-mediated glucose uptake in dairy cows. Rose MT, et al. **J Dairy Res** 1997 Aug;64(3):341–53
Effect of glucose fermentation on fiber digestion by ruminal microorganisms in vitro. Piwonka EJ, et al. **J Dairy Sci** 1996 Dec;79(12):2196–206
Research prospects with benfluorex. Ravel D, et al. **J Diabetes Complications** 1996 Sep-Oct;10(5):246–54 (56 ref.)
Glucose transporters in the transepithelial transport of glucose. Takata K. **J Electron Microsc (Tokyo)** 1996 Aug; 45(4):275–84 (86 ref.)
Dihydropyridine-sensitive and -insensitive voltage-operated calcium channels participate in the control of glucose-induced insulin release from human pancreatic beta cells. Davalli AM, et al. **J Endocrinol** 1996 Aug; 150(2):195–203
Glucose homeostasis with infinite gain: further lessons from the Daisyworld parable? Koeslag JH, et al. **J Endocrinol** 1997 Aug;154(2):187–92
Effects of season, protein and nutritional state on glucose tolerance during an annual cycle of growth in young red deer stags. McMahon CD, et al. **J Endocrinol** 1997 Aug; 154(2):275–83
8-Bromo-cAMP inhibits glucose transport activity in mouse placental cells in culture. Sakata M, et al. **J Endocrinol** 1996 Aug;150(2):319–27
Early diabetes-induced changes in rat jejunal glucose transport and the response to insulin. Sharp PA, et al. **J Endocrinol** 1997 Jul;154(1):19–25
Carbohydrate uptake by quiescent and reactivated mouse blastocysts. Spindler RE, et al. **J Exp Zool** 1996 Oct 1; 276(2):132–7
Losartan mediated improvement in insulin action is mainly due to an increase in non-oxidative glucose metabolism and blood flow in insulin-resistant hypertensive patients. Paolisso G, et al. **J Hum Hypertens** 1997 May;11(5):307–12
Effects of beta-adrenergic blockade on insulin-mediated glucose disposal in hypertensive and normotensive rats. Farrace S, et al. **J Hypertens** 1996 Sep;14(9):1087–92
The effect of angiotensin II receptor antagonism with losartan on glucose metabolism and insulin sensitivity. Moan A, et al. **J Hypertens** 1996 Sep;14(9):1093–7
Measurement of glucose consumption by hybridoma cells growing in hollow fiber cartridge bioreactors: use of blood glucose self-monitoring devices. Nayak RC, et al. **J Immunol Methods** 1997 Jul 14;205(2):109–14
Cryptosporidiosis-induced impairment of ion transport and Na+-glucose absorption in adult immunocompromised mice. Kapel N, et al. **J Infect Dis** 1997 Sep;176(3):834–7
The influence of female sex steroids on glucose metabolism and insulin action. Godsland IF. **J Intern Med Suppl** 1996; 738:1–60 (307 ref.)
Reduced dihydroxyacetone sensitivity and normal sensitivity to glyceraldehyde and oxidizing agent of ATP-sensitive K+ channels of pancreatic beta cells in NIDDM rats. Song DK, et al. **J Korean Med Sci** 1997 Aug;12(4):286–92
Effects of dietary carbohydrates on glucose and lipid metabolism in golden Syrian hamsters. Kasim-Karakas SE, et al. **J Lab Clin Med** 1996 Aug;128(2):208–13
Effect of alpha-tocopherol on LDL oxidation and glycation: in vitro and in vivo studies. Li D, et al. **J Lipid Res** 1996 Sep;37(9):1978–86
Quantitative measurement of 3-O-methyl-D-glucose by gas chromatography-mass spectrometry as a measure of glucose transport in vivo. Shojaee-Moradie F, et al. **J Mass Spectrom** 1996 Sep;31(9):961–6
Preconceptual caffeine exposure increases glucose utilization and accelerates development in the preimplantation rat embryo. Loupis A, et al. **J Matern Fetal Med** 1996 Nov-Dec;5(6):321–7
Evidence that calcium release-activated current mediates the biphasic electrical activity of mouse pancreatic beta-cells. Mears D, et al. **J Membr Biol** 1997 Jan 1;155(1):47–59
Sugar transport heterogeneity in the kidney: two independent transporters or different transport modes through an oligomeric Protein? 1. Glucose transport studies. Oulianova N, et al. **J Membr Biol** 1996 Oct;153(3):181–94
Differential regulation of glucose and glycogen metabolism in vascular smooth muscle by exogenous substrates. Hardin CD, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1207–16
Calcium improves mechanical function and carbohydrate metabolism following ischemia in isolated Bi-ventricular working hearts from immature rabbits. Itoi T, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1501–14
The origins of myocardial substrate utilization from an evolutionary perspective: the enduring role of glucose in energy metabolism. Liedtke AJ. **J Mol Cell Cardiol** 1997 Apr;29(4):1073–86 (75 ref.)
Regression of cardiac hypertrophy normalizes glucose metabolism and left ventricular function during reperfusion. Wambolt RB, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):939–48
Effects of growth hormone in vitro on the glucose metabolism of fetal rat islet beta-cells. Svensson C. **J Mol Endocrinol** 1996 Oct;17(2):131–8
Energy from redox disproportionation of sugar carbon drives biotic and abiotic synthesis. Weber AL. **J Mol Evol** 1997 Apr;44(4):354–60
Antagonism of cocaine's stimulant effects on local cerebral glucose utilization by the preferential autoreceptor antagonist (+)-AJ 76. Casey BL, et al. **J Neural Transm** 1996;103(3):277–85
Effect of adrenalectomy and corticosterone substitution on glucose and glycogen metabolism in rat brain. Plaschke K, et al. **J Neural Transm** 1996;103(1-2):89–100
Altered regulation of brain glucose metabolism as a cause of neurodegenerative disorders? Blum-Degen D, et al. **J Neural Transm Suppl** 1995;46:139–47
Models of Alzheimer's disease: cellular and molecular aspects. Hoyer S. **J Neural Transm Suppl** 1997;49:11–21 (85 ref.)
Amyloid beta-peptide induces cell monolayer albumin permeability, impairs glucose transport, and induces apoptosis in vascular endothelial cells. Blanc EM, et al. **J Neurochem** 1997 May;68(5):1870–81

Inosine mediates the protective effect of adenosine in rat astrocyte cultures subjected to combined glucose-oxygen deprivation. Haun SE, et al. **J Neurochem** 1996 Nov; 67(5):2051-9

Rapid changes in local extracellular rat brain glucose observed with an in vivo glucose sensor. Hu Y, et al. **J Neurochem** 1997 Apr;68(4):1745-52

Impairment of glucose and glutamate transport and induction of mitochondrial oxidative stress and dysfunction in synaptosomes by amyloid beta-peptide: role of the lipid peroxidation product 4-hydroxynonenal. Keller JN, et al. **J Neurochem** 1997 Jul;69(1):273-84

Partitioning of CO2 production between glucose and lactate in excised sympathetic ganglia, with implications for brain. Larrabee MG. **J Neurochem** 1996 Oct;67(4):1726-34

Oleic acid inhibits gap junction permeability and increases glucose uptake in cultured rat astrocytes. Lavado E, et al. **J Neurochem** 1997 Aug;69(2):721-8

Amyloid beta-mediated oxidative and metabolic stress in rat cortical neurons: no direct evidence for a role for H2O2 generation. Zhang Z, et al. **J Neurochem** 1996 Oct; 67(4):1595-606

Some acute effects of intracerebroventricular neuropeptide Y on insulin secretion and glucose metabolism in the rat. Marks JL, et al. **J Neuroendocrinol** 1996 Jul;8(7):507-13

Positron emission tomography and magnetic resonance imaging for cerebral involvement in patients with systemic lupus erythematosus. Sailer M, et al. **J Neurol** 1997 Mar; 244(3):186-93

Cortical and subcortical glucose metabolism in childhood epileptic encephalopathies. Ferrie CD, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):181-7

Decreased cortical glucose metabolism correlates with hippocampal atrophy in Alzheimer's disease as shown by MRI and PET. Yamaguchi S, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):596-600

Temporal lobe epilepsy: evidence for interictal uncoupling of blood flow and glucose metabolism in temporomesial structures. Fink GR, et al. **J Neurol Sci** 1996 Apr; 137(1):28-34

Cerebral oxygen and glucose metabolism in glycogen storage disease with normal acid maltase: case report. Katsumi Y, et al. **J Neurol Sci** 1996 Sep 1;140(1-2):46-52

Propentofylline improves regional cerebral glucose metabolism and neuropsychologic performance in vascular dementia. Mielke R, et al. **J Neurol Sci** 1996 Sep 15; 141(1-2):59-64

PET study of cerebral glucose metabolism and fluorodopa uptake in patients with corticobasal degeneration. Nagasawa H, et al. **J Neurol Sci** 1996 Aug;139(2):210-7

Glucose metabolism in the cortical and subcortical brain structures in multiple system atrophy and Parkinson's disease: a positron emission tomographic study. Otsuka M, et al. **J Neurol Sci** 1996 Dec;144(1-2):77-83

Local cerebral glucose metabolism in patients with long-term behavioral and cognitive deficits following mild traumatic brain injury. Gross H, et al. **J Neuropsychiatry Clin Neurosci** 1996 Summer;8(3):324-34

Gender differences in cortical glucose metabolism in Alzheimer's disease and normal aging. Siegel BV Jr, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):211-4

Effects of m-chlorophenylpiperazine on regional brain glucose utilization: a positron emission tomographic comparison of alcoholic and control subjects. Hommer D, et al. **J Neurosci** 1997 Apr 15;17(8):2796-806

Amyloid beta-peptide impairs glucose transport in hippocampal and cortical neurons: involvement of membrane lipid peroxidation. Mark RJ, et al. **J Neurosci** 1997 Feb 1;17(3):1046-54

Cerebral hyperglycolysis following severe traumatic brain injury in humans: a positron emission tomography study. Bergsneider M, et al. **J Neurosurg** 1997 Feb;86(2):241-51

Patterns of increased glucose use following extracellular infusion of glutamate: an autoradiographic study. Fujisawa H, et al. **J Neurotrauma** 1996 May;13(5):245-54

Glucose uptake and lumped constant variability in normal human hearts determined with [18F]fluorodeoxyglucose. Bøtker HE, et al. **J Nucl Cardiol** 1997 Mar-Apr;4(2 Pt 1):125-32

Regional cerebral blood flow and glucose utilization in spontaneously epileptic EL mice. Hosokawa C, et al. **J Nucl Med** 1997 Apr;38(4):613-6

Reduction of cerebellar glucose metabolism in advanced Alzheimer's disease. Ishii K, et al. **J Nucl Med** 1997 Jun; 38(6):925-8

Temporal changes in function and regional glucose uptake within stunned porcine myocardium. McFalls EO, et al. **J Nucl Med** 1996 Dec;37(12):2006-10

Simplified calculation of MRglc using PET [letter] Phillips RL, et al. **J Nucl Med** 1997 Aug;38(8):1334

Abnormal cerebral glucose metabolism in HIV-1 seropositive subjects with and without dementia. Rottenberg DA, et al. **J Nucl Med** 1996 Jul;37(7):1133-41

Cerebral glucose metabolism during pharmacologic studies: test-retest under placebo conditions. Schmidt ME, et al. **J Nucl Med** 1996 Jul;37(7):1142-9

Feasibility of imaging pentose cycle glucose metabolism in gliomas with PET: studies in rat brain tumor models. Spence AM, et al. **J Nucl Med** 1997 Apr;38(4):617-24

Peptide T and glucose metabolism in AIDS dementia complex. Villemagne VL, et al. **J Nucl Med** 1996 Jul; 37(7):1177-80

Reproducibility of regional brain metabolic responses to lorazepam. Wang GJ, et al. **J Nucl Med** 1996 Oct; 37(10):1609-13

Quantification of serial tumor glucose metabolism. Wu HM, et al. **J Nucl Med** 1996 Mar;37(3):506-13

Consumption of retrograded (RS3) but not uncooked (RS2) resistant starch shifts nitrogen excretion from urine to feces in cannulated piglets. Heijnen ML, et al. **J Nutr** 1997 Sep; 127(9):1828-32

Stable isotope model for assessing production of short chain fatty acids from colon-derived sugar: application in pigs. Kien CL, et al. **J Nutr** 1996 Dec;126(12):3069-76

Dietary glucose is extensively recycled in the splanchnic bed of fed adult mice. Pascual M, et al. **J Nutr** 1997 Aug; 127(8):1480-8

The liver forms, stores and secretes glucose (Claude Bernard, 1860). Swan PB. **J Nutr** 1997 May;127(5 Suppl):1019S-1020S

Congenital glucose-galactose malabsorption in Arab children. Abdullah AM, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):561-4

Intestinal brush-border membrane enzyme activities and transport functions during prenatal development of pigs. Buddington RK, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul;23(1):51-64

3-Nitropropionic acid exacerbates [3H]GABA release evoked by glucose deprivation in rat striatal slices. Boireau A, et al. **J Pharm Pharmacol** 1996 Jan;48(1):85-9

16-epiestriol: an anti-inflammatory steroid without glycogenic activity. Latman NS, et al. **J Pharm Sci** 1994 Jun;83(6):874-7

Eccentric exercise decreases maximal insulin action in humans: muscle and systemic effects. Asp S, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):891-8

Endothelin-1 potently stimulates chloride secretion and inhibits Na(+)-glucose absorption in human intestine in vitro. Kuhn M, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):391-402

Evidence for uncoupling of oxygen and glucose utilization during neuronal activation in rat striatum. Lowry JP, et al. **J Physiol (Lond)** 1997 Jan 15;498 (Pt 2):497-501

Maternal-fetal glucose metabolism and fetal growth retardation. Is there an association? Piper JM, et al. **J Reprod Med** 1996 Oct;41(10):761-6

Alterations in oxidative metabolism and glutamine transport support glucose production in the tumor-influenced hepatocyte. Fischer CP, et al. **J Surg Res** 1997 May; 69(2):379-84

Glucose and energy metabolism in rat liver after ischemic damage assessed by 13 C and 31 P NMR spectroscopy. Morikawa S, et al. **J Surg Res** 1996 Jul 1;63(2):393-9

The glucose-induced switch between glycogen phosphorylase and glycogen synthase in the liver: outlines of a theoretical approach. Cárdenas ML, et al. **J Theor Biol** 1996 Oct 7;182(3):421-6

Models of metabolism in Rhizopus oryzae. Wright BE, et al. **J Theor Biol** 1996 Oct 7;182(3):453-7

Human immunodeficiency virus type 1 infection of H9 cells induces increased glucose transporter expression. Sorbara LR, et al. **J Virol** 1996 Oct;70(10):7275-9

Epidermal growth factor up-regulates sodium-glucose cotransport in enterocyte models in the presence of cholera toxin. Mehta DI, et al. **JPEN J Parenter Enteral Nutr** 1997 Jul-Aug;21(4):185-91

Glycemic response to dietary supplements in cystic fibrosis is dependent on the carbohydrate content of the formula. Milla C, et al. **JPEN J Parenter Enteral Nutr** 1996 May-Jun;20(3):182-6

Heterogeneity of myocardial fluoro-18 2-deoxyglucose uptake in patients with apical hypertrophic cardiomyopathy. Shiba N, et al. **Jpn Circ J** 1997 Mar; 61(3):223-30

Alterations in local cerebral glucose metabolism and endogenous thyrotropin-releasing hormone levels in rolling mouse Nagoya and effect of thyrotropin-releasing hormone tartrate. Nakayama T, et al. **Jpn J Pharmacol** 1996 Nov; 72(3):241-6

Glucose sensors in the medulla oblongata. Adachi A, et al. **Jpn J Physiol** 1997;47 Suppl 1:S37-8

Cell biology of insulin action on glucose transport. Cushman W, et al. **Jpn J Physiol** 1997;47 Suppl 1:S39

Molecular mechanism of insulin-stimulated glucose transport in 3T3-L1 adipocytes. Oka Y, et al. **Jpn J Physiol** 1997; 47 Suppl 1:S49

Regulation of glucose metabolism and opening of K(ATP) channels in pancreatic beta-cells by NO. Tsuura Y, et al. **Jpn J Physiol** 1997;47 Suppl 1:S12

Effects of antiglaucoma drugs and corticosteroids on the cellular glucose uptake in cultured porcine corneal endothelial cells. Wu KY, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Aug; 13(8):480-6

Hyperglycemia and intestinal and renal glucose transport: implications for diabetic renal injury [editorial] Debnam ES, et al. **Kidney Int** 1996 Oct;50(4):1101-9 (108 ref.)

Low protein diet in uremia: effects on glucose metabolism and energy production rate. Rigalleau V, et al. **Kidney Int** 1997 Apr;51(4):1222-7

Interactions between D-glucose and phosphate in renal proximal tubule cells. Brazy P, et al. **Kidney Int Suppl** 1996 Dec;57:S30-4

Vascular dysfunction in diabetes mellitus. Feener EP, et al. **Lancet** 1997 Jul;350 Suppl 1:SI9-13 (35 ref.)

Regulation of glucose transport by interleukin-3 in growth factor-dependent and oncogene-transformed bone marrow-derived cell lines. Ahmed N, et al. **Leuk Res** 1997 Jul;21(7):609-18

Insulin-like vs. non-insulin-like stimulation of glucose metabolism by vanadium, tungsten, and selenium compounds in rat muscle. Fürnsinn C, et al. **Life Sci** 1996; 59(23):1989-2000

Effect of triiodothyronine on glucose transport in rat adipocytes. Goto H, et al. **Life Sci** 1997;61(2):193-204

Stimulation by alpha-lipoic acid of glucose transport activity in skeletal muscle of lean and obese Zucker rats. Henriksen EJ, et al. **Life Sci** 1997;61(8):805-12

Impaired non-insulin mediated glucose uptake after downhill running in rats. Ide K, et al. **Life Sci** 1996;59(19):1601-5

Role of central neural mechanisms in the regulation of hepatic glucose metabolism. Nonogaki K, et al. **Life Sci** 1997; 60(11):797-807 (101 ref.)

Restoration of nitric oxide production by aldose reductase inhibitor in human endothelial cells cultured in high-glucose medium. Okuda Y, et al. **Life Sci** 1997; 60(3):PL53-6

The effects of propofol on cerebral high energy metabolites, lactate, and glucose in normoxic and severely hypoxic rats. Ori C, et al. **Life Sci** 1997;60(16):1349-57

Metabolic stimulation of mouse spleen lymphocytes by low doses of delta9-tetrahydrocannabinol. Sánchez C, et al. **Life Sci** 1997;60(19):1709-17

Role of dihydropyridine sensitive calcium channels in glucose transport in skeletal muscle. Young JC, et al. **Life Sci** 1997; 61(3):335-42

Observation of resolved glucose signals in 1H NMR spectra of the human brain at 4 Tesla. Gruetter R, et al. **Magn Reson Med** 1996 Jul;36(1):1-6

Comparison of parametrized models for computer-based estimation of diabetic patient glucose response. Naylor JS, et al. **Med Inf (Lond)** 1997 Jan-Mar;22(1):21-34

Minimal model of food absorption in the gut. Worthington DR. **Med Inf (Lond)** 1997 Jan-Mar;22(1):35-45

Upper limit for intestinal absorption of a dilute glucose solution in men at rest. Duchman SM, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):482-8

Effect of parasympathetic denervation of liver and pancreas on glucose kinetics in man. Fabris SE, et al. **Metabolism** 1996 Aug;45(8):987-91

Effects of metformin on the pathways of glucose utilization after oral glucose in non-insulin-dependent diabetes mellitus patients. Féry F, et al. **Metabolism** 1997 Feb; 46(2):227-33

A high-fat diet influences insulin-stimulated posttransport muscle glucose metabolism in rats. Furler SM, et al. **Metabolism** 1997 Sep;46(9):1101-6

Effect of inhibition of aldose reductase on glucose flux, diacylglycerol formation, protein kinase C, and phospholipase A2 activation. Keogh RJ, et al. **Metabolism** 1997 Jan;46(1):41-7

Effect of decreasing plasma free fatty acids by acipimox on hepatic glucose metabolism in normal rats. Lee KU, et al. **Metabolism** 1996 Nov;45(11):1408-14

Insulin-like growth factor-I improves glucose utilization in tumor necrosis factor-treated rats under hyperinsulinemic-euglycemic conditions. Ling PR, et al. **Metabolism** 1997 Sep;46(9):1052-8

Differential acute effects of oxovanadiums and insulin on glucose and lactate metabolism under in vivo and in vitro conditions. Liu J, et al. **Metabolism** 1997 May;46(5):562-72

Assessment of insulin action on glucose uptake and production during a euglycemic-hyperinsulinemic clamp in dog: a new kinetic analysis. McGuinness OP, et al. **Metabolism** 1997 Oct;46(10):1116-27

Acute effect of troglitazone on glucose metabolism in the absence or presence of insulin in perfused rat hindlimb. Okuno A, et al. **Metabolism** 1997 Jun;46(6):716-21

L-arginine but not D-arginine stimulates insulin-mediated glucose uptake. Paolisso G, et al. **Metabolism** 1997 Sep; 46(9):1068-73

Characterization of alterations in glucose and insulin metabolism in Prader-Willi subjects. Schuster DP, et al. **Metabolism** 1996 Dec;45(12):1514-20

Decreased myocardial glucose uptake during ischemia in diabetic swine. Stanley WC, et al. **Metabolism** 1997 Feb; 46(2):168-72

Acute effects of progesterone on glucose metabolism in rat adipocytes: are they modulated by endogenous adenosine? Sutter-Dub MT, et al. **Metabolism** 1997 Jun;46(6):595-604

Lactate infusion in anesthetized rats produces insulin resistance in heart and skeletal muscles. Vettor R, et al. **Metabolism** 1997 Jun;46(6):684-90

Brucella abortus strain 2308 putative glucose and galactose transporter gene: cloning and characterization. Essenberg RC, et al. **Microbiology** 1997 May;143 (Pt 5):1549-55

Flux distributions in anaerobic, glucose-limited continuous cultures of Saccharomyces cerevisiae. Nissen TL, et al. **Microbiology** 1997 Jan;143 (Pt 1):203-18

Catabolism of D-glucose by Pseudomonas putida U occurs via extracellular transformation into D-gluconic acid and induction of a specific gluconate transport system. Schleissner C, et al. **Microbiology** 1997 May;143 (Pt 5):1595-603

Metabolic adaptation of Trichomonas vaginalis to growth rate and glucose availability. ter Kuile BH.

Microbiology 1996 Dec;142 (Pt 12):3337–45
Initial pH as a determining factor of glucose consumption and lactic and acetic acid production in oral streptococci. Concha ML, et al. **Microbios** 1996;87(353):207–16
Mechanism of glucose transport across the human and rat placental barrier: a review. Takata K, et al. **Microsc Res Tech** 1997 Jul 1–15;38(1–2):145–52 (70 ref.)
Glucose uptake in Plasmodium falciparum–infected erythrocytes is an equilibrative not an active process. Kirk K, et al. **Mol Biochem Parasitol** 1996 Nov 25;82(2):195–205
Syntaxin 4 in 3T3–L1 adipocytes: regulation by insulin and participation in insulin–dependent glucose transport. Volchuk A, et al. **Mol Biol Cell** 1996 Jul;7(7):1075–82
Regulation and control of glucose overutilization in erythrocytes by vanadate. Baquer NZ, et al. **Mol Cell Biochem** 1995 Dec 6–20;153(1–2):157–60
Short chain fatty acid and glucose metabolism in isolated pig colonocytes: modulation by NH4+. Darcy-Vrillon B, et al. **Mol Cell Biochem** 1996 Mar 23;156(2):145–51
Differential effects of constitutively active phosphatidylinositol 3–kinase on glucose transport, glycogen synthase activity, and DNA synthesis in 3T3–L1 adipocytes. Frevert EU, et al. **Mol Cell Biol** 1997 Jan; 17(1):190–8
Intracellular monosaccharide and amino acid concentrations and activities and the mechanisms of insulin action. Horowitz SB, et al. **Mol Cell Biol** 1981 Sep;1(9):769–84
Glucose derepression of gluconeogenic enzymes in Saccharomyces cerevisiae correlates with phosphorylation of the gene activator Cat8p. Randez–Gil F, et al. **Mol Cell Biol** 1997 May;17(5):2502–10
Glucose transport correlates with GLUT2 abundance in rat liver during altered thyroid status. Kemp HF, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):97–102
Adenovirus–mediated gene transfer of dominant negative ras(asn17) in 3T3L1 adipocytes does not alter insulin–stimulated P13–kinase activity or glucose transport. Gnudi L, et al. **Mol Endocrinol** 1997 Jan;11(1):67–76
Phosphoinositide 3–kinase is required for insulin–induced but not for growth hormone– or hyperosmolarity–induced glucose uptake in 3T3–L1 adipocytes. Sakaue H, et al. **Mol Endocrinol** 1997 Sep;11(10):1552–62
Insulin–stimulated glucose uptake involves the transition of glucose transporters to a caveolae–rich fraction within the plasma membrane: implications for type II diabetes. Gustavsson J, et al. **Mol Med** 1996 May;2(3):367–72
Nuclear magnetic resonance studies of glucose metabolism in non–insulin–dependent diabetes mellitus subjects. Shulman RG. **Mol Med** 1996 Sep;2(5):533–40 (29 ref.)
Evidence for trehalose–6–phosphate–dependent and –independent mechanisms in the control of sugar influx into yeast glycolysis. Hohmann S, et al. **Mol Microbiol** 1996 Jun;20(5):981–91
Glucose utilization during gonadotropin–induced meiotic maturation in cumulus cell–enclosed mouse oocytes. Downs SM, et al. **Mol Reprod Dev** 1996 May;44(1):121–31
Nutrient uptake and utilization can be used to select viable day 7 bovine blastocysts after cryopreservation. Gardner DK, et al. **Mol Reprod Dev** 1996 Aug;44(4):472–5
Increased glucose transport–phosphorylation and muscle glycogen synthesis after exercise training in insulin–resistant subjects. Perseghin G, et al. **N Engl J Med** 1996 Oct 31;335(18):1357–62
Quantitative trait loci for cellular defects in glucose and fatty acid metabolism in hypertensive rats. Aitman TJ, et al. **Nat Genet** 1997 Jun;16(2):197–201
Frogs reabsorb glucose from urinary bladder [letter] Costanzo JP, et al. **Nature** 1997 Sep 25;389(6649):343–4
Acute stimulation of glucose metabolism in mice by leptin treatment. Kamohara S, et al. **Nature** 1997 Sep 25; 389(6649):374–7
Abnormal angiogenesis and responses to glucose and oxygen deprivation in mice lacking the protein ARNT. Maltepe E, et al. **Nature** 1997 Mar 27;386(6623):403–7
An agent cleaving glucose–derived protein crosslinks in vitro and in vivo [see comments] Vasan S, et al. **Nature** 1996 Jul 18;382(6588):275–8. Comment in: Nature 1996 Jul 18;382(6588):211–2.
Effects of Clostridium difficile toxin B on activation of rat peritoneal mast cells. Wex CB, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):328–34
Cytotoxicity of peritoneal dialysis fluid – is it related to glucose breakdown products? [editorial] Wieslander AP. **Nephrol Dial Transplant** 1996 Jun;11(6):958–9 (7 ref.)
Astrocytes and the delivery of glucose from plasma to neurons. Forsyth RJ. **Neurochem Int** 1996 Mar;28(3):231–41 (46 ref.)
Inhibition of sodium–dependent uptake processes in purified rat brain synaptosomes by Lophozozymus pictor toxin and palytoxin. Lau CO, et al. **Neurochem Int** 1996 Apr; 28(4):385–90
Assessment of energy metabolism in the developing brain following aglycemic hypoxia by 1H and 31P NMR. Brooks KJ, et al. **Neurochem Res** 1996 Sep;21(9):1089–95
The rate of turnover of cortical GABA from [1–13C]glucose is reduced in rats treated with the GABA–transaminase inhibitor vigabatrin (gamma–vinyl GABA). Manor D, et al. **Neurochem Res** 1996 Sep;21(9):1031–41
The time course of glucose metabolism in rat cerebral ischemia with middle cerebral artery occlusion–reperfusion model and the effect of MK–801. Liu Y, et al. **Neurol Res** 1996 Dec;18(6):505–8
Reduced glucose metabolism in the frontal cortex and basal ganglia of multiple sclerosis patients with fatigue: a 18F–fluorodeoxyglucose positron emission tomography study. Roelcke U, et al. **Neurology** 1997 Jun;48(6):1566–71
Paradoxically enhanced glucose production during exercise in humans with blocked glycolysis caused by muscle phosphofructokinase deficiency. Vissing J, et al. **Neurology** 1996 Sep;47(3):766–71
Increased regional cerebral glucose metabolism and semantic memory performance in Alzheimer's disease: a pilot double blind transdermal nicotine positron emission tomography study. Parks RW, et al. **Neuropsychol Rev** 1996 Jun; 6(2):61–79 (79 ref.)
Effects of zolpidem on local cerebral glucose metabolism during non–REM sleep in normal volunteers: a positron emission tomography study. Gillin JC, et al. **Neuropsychopharmacology** 1996 Sep;15(3):302–13
Regional cerebral glucose utilization is modulated by the dosage of apolipoprotein E type 4 allele and alpha1–antichymotrypsin type A allele in Alzheimer's disease. Higuchi M, et al. **Neuroreport** 1997 Aug 18; 8(12):2639–43
Cingulate function in depression: a potential predictor of treatment response. Mayberg HS, et al. **Neuroreport** 1997 Mar 3;8(4):1057–61
Brain glucose: voltammetric determination in normal and hyperglycaemic rats using a glucose microsensor. Shram NF, et al. **Neuroreport** 1997 Mar 24;8(5):1109–12
Evidence that glucose metabolism is decreased in the cerebrum of aged female senescence–accelerated mouse; possible involvement of a low hexokinase activity. Kurokawa T, et al. **Neurosci Lett** 1996 Aug 16;214(1):45–8
Uncoupling between cortical glucose metabolism and blood flow after ibotenate lesion of the rat basal forebrain: a PET study. Ogawa M, et al. **Neurosci Lett** 1996 Feb 9; 204(3):193–6
Relationship of impaired brain glucose metabolism to learning deficit in the senescence–accelerated mouse. Ohta H, et al. **Neurosci Lett** 1996 Oct 11;217(1):37–40
Hypothalamic neuron projection to autonomic preganglionic levels related with glucose metabolism: a fluorescent labelling study in the rat. Portillo F, et al. **Neurosci Lett** 1996 Jun 7;210(3):197–200
Lactate spares glucose as a metabolic fuel in neurons and astrocytes from primary culture. Tabernero A, et al. **Neurosci Res** 1996 Dec;26(4):369–76
Reduction of regional brain glucose metabolism following different durations of chronic ethanol consumption in mice: a selective effect on diencephalic structures. Bontempi B, et al. **Neuroscience** 1996 Jun;72(4):1141–53
Reduced glucose metabolism enhances the glutamate–evoked release of arachidonic acid from striatal neurons. Williams RJ, et al. **Neuroscience** 1996 Sep;74(2):461–8
PET studies of cerebral glucose metabolism: acute effects of cocaine and long–term deficits in brains of drug abusers. London ED, et al. **NIDA Res Monogr** 1996;163:146–58 (52 ref.)
Characterization of 6–deoxy–6–iodō–D–glucose: a potential new tool to assess glucose transport. Henry C, et al. **Nucl Med Biol** 1997 Jan;24(1):99–104
Glucose metabolism and pathological findings in uveal melanoma: preliminary results. Modorati G, et al. **Nucl Med Commun** 1996 Dec;17(12):1052–6
Insulin–stimulated glucose disposal: does adipose play a role? Frost SC. **Nutr Rev** 1996 Oct;54(10):329–31 (37 ref.)
Assessment of perioperative glycerol metabolism by stable isotope tracer technique. Schricker T, et al. **Nutrition** 1997 Mar;13(3):191–5
Dietary regulation of glucose transport in animal models of insulin resistance [editorial] Seböková E, et al. **Nutrition** 1997 Feb;13(2):152–3
Innervation of the liver and glucoregulation: roles of the hypothalamus and autonomic nerves. Shimazu T. **Nutrition** 1996 Jan;12(1):65–6
Static theories in a dynamic world: a glucodynamic theory of food intake [comment] Bray GA. **Obes Res** 1996 Sep; 4(5):489–92. Comment on: Obes Res 1996 Sep;4(5):493–6. Comment on: Obes Res 1996 Sep;4(5):497–500.
Effect of the antitumor drug lonidamine on glucose metabolism of adriamycin–sensitive and –resistant human breast cancer cells. Fanciulli M, et al. **Oncol Res** 1996; 8(3):111–20
Nuclear magnetic resonance studies of sugar metabolism in the human infant lens. Cheng HM, et al. **Ophthalmic Res** 1996;28 Suppl 2:5–10
A technical approach to the evaluation of glucose oxidation: implications for diabetic cataract. Pereira PC, et al. **Ophthalmic Res** 1996;28(5):275–83
An unidentified pancreatic cancer cell product alters some intracellular pathways of glucose metabolism in isolated rat hepatocytes. Basso D, et al. **Pancreas** 1997 Aug; 15(2):132–8
Fuel utilization by early newborn brain is preserved under congenital hypothyroidism in the rat. Almeida A, et al. **Pediatr Res** 1996 Sep;40(3):410–4
Effect of hypoxia on glucose–modulated cerebral lactic acidosis, agonal glycolytic rates, and energy utilization. Corbett RJ, et al. **Pediatr Res** 1996 Mar;39(3):477–86
Major circadian variations of glucose homeostasis in a patient with Rabson–Mendenhall syndrome and primary insulin resistance due to a mutation (Cys284–>Tyr) in the insulin receptor alpha–subunit. Desbois–Mouthon C, et al. **Pediatr Res** 1997 Jul;42(1):72–7
Cerebral glucose metabolism is decreased in white matter changes in patients with phenylketonuria. Hasselbalch S, et al. **Pediatr Res** 1996 Jul;40(1):21–4
Intracellular pathways of insulin–mediated glucose uptake before and after puberty in conscious rats. Raghavan S, et al. **Pediatr Res** 1997 Mar;41(3):340–5
Effect of beta–endorphin C–terminal peptides on glucose uptake in isolated skeletal muscles of the mouse. Evans A, et al. **Peptides** 1997;18(1):165–7
Endogenous CCK in the control of gastric emptying of glucose and maltose. Moran TH, et al. **Peptides** 1997; 18(4):547–50
Increased sodium–dependent D–glucose transport in the jejunal brush–border membrane of spontaneously hypertensive rat. Vázquez CM, et al. **Pflugers Arch** 1996 Jun;432(2):329–35
Persistent increases in basal cerebral metabolic activity induced by morphine sensitization. Kraus MA, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):89–100
Individual differences in sugar consumption following systemic or intraaccumbens administration of low doses of amphetamine in nondeprived rats. Sills TL, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):665–70
Effects of central oxytocin administration on intraoral intake of glucose in deprived and nondeprived rats. Lokrantz CM, et al. **Physiol Behav** 1997 Aug;62(2):347–52
Dietary lipid and intestinal brush border membrane phospholipid fatty acid composition and glucose transport of channel catfish. Houpe KL, et al. **Physiol Zool** 1997 Mar–Apr;70(2):230–6
Superfused microcarrier cultures of choriocarcinoma cells: a dynamic model for studying transport of glucose and amino acids. Eaton BM, et al. **Placenta** 1996 May; 17(4):209–15
The effect of hypoxia on human trophoblast in culture: morphology, glucose transport and metabolism. Esterman A, et al. **Placenta** 1997 Mar–Apr;18(2–3):129–36
A lectin from leaves of Neoregelia flandria recognizes D–glucose, D–mannose and N–acetyl D–glucosamine, differing from the mannose–specific lectins of other monocotyledonous plants. Yagi F, et al. **Plant Cell Physiol** 1996 Oct;37(7):1007–12
Purification of the Chlorella HUP1 hexose–proton symporter to homogeneity and its reconstitution in vitro. Caspari T, et al. **Plant J** 1996 Dec;10(6):1045–53
Prenatal identification of a heterozygous status in two fetuses at risk for glucose–galactose malabsorption. Martin MG, et al. **Prenat Diagn** 1996 May;16(5):458–62
Activation of memory circuits during cue–elicited cocaine craving. Grant S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):12040–5
Increased tricarboxylic acid cycle flux in rat brain during forepaw stimulation detected with 1H[13C]NMR. Hyder F, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7612–7
In vivo 13C NMR measurements of cerebral glutamine synthesis as evidence for glutamate–glutamine cycling. Sibson NR, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2699–704
Expression of polyphosphate kinase inhibits the glucose uptake in Escherichia coli. Liu JK, et al. **Proc Natl Sci Counc Repub China B** 1996 Oct;20(4):110–6
Glucostatic control of intake and obesity. Astrup A, et al. **Proc Nutr Soc** 1996 Mar;55(1B):485–95 (40 ref.)
Metabolic and glucostatic control of feeding. Langhans W. **Proc Nutr Soc** 1996 Mar;55(1B):497–515 (146 ref.)
Dietary macronutrients and glucostatic control of feeding. Stubbs RJ. **Proc Nutr Soc** 1996 Mar;55(1B):467–83 (69 ref.)
Insulin–sensitive phospholipid signaling systems and glucose transport: an update. Farese RV. **Proc Soc Exp Biol Med** 1996 Oct;213(1):1–12 (103 ref.)
An axenic method of D–[U–14C]glucose incorporation into trophozoites from Entamoeba invadens. Segura JJ, et al. **Proc West Pharmacol Soc** 1996;39:49–50
SCN output drives the autonomic nervous system: with special reference to the autonomic function related to the regulation of glucose metabolism. Nagai K, et al. **Prog Brain Res** 1996;111:253–72 (91 ref.)
Effect of fasting on the contractile activity and metabolism of labelled glucose and arachidonic acid in uteri isolated from intact and ovariectomized rat. Casalino–Matsuda SM, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jan; 56(1):79–83
Cortical glucose metabolism in psychiatric wandering patients with vascular dementia. Meguro K, et al. **Psychiatry Res** 1996 May 31;67(1):71–80
Persisting changes in brain glucose uptake following neurotoxic doses of phencyclidine which mirror the acute effects of the drug. Ellison GD, et al. **Psychopharmacology (Berl)** 1996 Aug;126(3):271–4
Insulin and glucose: relationships with hassles, anger, and hostility in nondiabetic older adults. Vitaliano PP, et al. **Psychosom Med** 1996 Sep–Oct;58(5):489–99
Carbon–13 magnetic resonance spectroscopy of glucose metabolism in SCC–VII tumors. Furusawa M, et al. **Radiat Med** 1997 May–Jun;15(3):149–53
Effects of atrial natriuretic factor on glucose metabolism in isolated adipocytes. Crilley CT, et al. **Regul Pept** 1997 Jan 29;68(2):125–30
Signals related to glucose metabolism regulate islet amyloid polypeptide (IAPP) gene expression in human pancreatic

islets. Gasa R, et al. **Regul Pept** 1997 Jan 29;68(2):99–104
Influence of glucose concentration on the inhibitory effect of amylin on insulin secretion. Study in the perfused rat pancreas. Silvestre RA, et al. **Regul Pept** 1997 Jan 15; 68(1):31–5
Nutrient uptake and culture of Sminthopsis macroura (stripe–faced dunnart) embryos. Gardner DK, et al. **Reprod Fertil Dev** 1996;8(4):685–90
Regulation of net hepatic glucose uptake: interaction of neural and pancreatic mechanisms. Moore MC, et al. **Reprod Nutr Dev** 1996;36(4):399–406 (30 ref.)
Hepatic glucose production from L–alanine is absent in perfused liver of diabetic rats. Ferraz M, et al. **Res Commun Mol Pathol Pharmacol** 1997 Feb;95(2):147–55
Catabolite repression: a story without end. Ullmann A. **Res Microbiol** 1996 Jul–Sep;147(6–7):455–8 (24 ref.)
Some puzzles about carbon catabolite repression in yeast. Wills C. **Res Microbiol** 1996 Jul–Sep;147(6–7):566–72 (39 ref.)
The significance of glucose turnover in the brain in the pathogenetic mechanisms of Alzheimer's disease. Meier–Ruge W, et al. **Rev Neurosci** 1996 Jan–Mar;7(1):1–19 (207 ref.)
Regulation of glucose transport into skeletal muscle. Holloszy JO, et al. **Rev Physiol Biochem Pharmacol** 1996;128:99–193 (300 ref.)
A new non–NMDA antagonist modifies the local cerebral glucose utilization in kainate–induced generalized seizure. Shiraishi K. **Sangyo Ika Daigaku Zasshi** 1997 Mar 1; 19(1):1–12
What makes brain neurons run? [news] [see comments] Barinaga M. **Science** 1997 Apr 11;276(5310):196–8. Comment in: Science 1997 Jul 25;277(5325):459–60.
Biochemical events and cytokine interactions linking glucose metabolism to the development of diabetic nephropathy [published erratum appears in Semin Nephrol 1997 Jul;17(4):391] Sharma K, et al. **Semin Nephrol** 1997 Mar; 17(2):80–92 (141 ref.)
Tissue glucose transport and glucose transporters in suckling rats with endotoxic shock. Battelino T, et al. **Shock** 1996 Oct;6(4):259–62
IGF–I stimulates muscle glucose uptake during sepsis. Lang CH. **Shock** 1996 Jan;5(1):22–7
Ligamentous ossification of the cervical spine in the late middle–aged Japanese men. Its relation to body mass index and glucose metabolism. Shingyouchi Y, et al. **Spine** 1996 Nov 1;21(21):2474–8
Effect of burn injury on glucose and nitrogen metabolism in the liver: preliminary studies in a perfused liver system. Yamaguchi Y, et al. **Surgery** 1997 Mar;121(3):295–303
Diamide–induced alterations of intracellular thiol status and the regulation of glucose metabolism in the developing rat conceptus in vitro. Hiranruengchok R, et al. **Teratology** 1995 Oct;52(4):205–14
Myocardial glucose metabolism is different between hypertrophic cardiomyopathy and hypertensive heart disease associated with asymmetrical septal hypertrophy. Shiba N, et al. **Tohoku J Exp Med** 1997 Jun;182(2):125–38
Experimental nonenzymatic glycosylation of vitreous collagens occurs by two pathways. Pulido JS. **Trans Am Ophthalmol Soc** 1996;94:1029–72
The relationship between glucose production and plasma glucose concentration in children with falciparum malaria. Dekker E, et al. **Trans R Soc Trop Med Hyg** 1996 Nov–Dec;90(6):654–7
Glucose–galactose malabsorption: is it an indication to bowel transplantation in childhood? Ferretti F, et al. **Transplant Proc** 1997 May;29(3):1866–7
Stoichiometry of glucose and xylose fermentation in Butyrivibrio fibrisolvens 787. Kovaľ L, et al. **Ukr Biokhim Zh** 1996 Sep–Oct;68(5):85–9
Generation of bovine immune colostrum against Streptococcus mutans and Streptococcus sobrinus and its effect on glucose uptake and extracellular polysaccharide formation by mutans streptococci. Loimaranta V, et al. **Vaccine** 1997 Aug;15(11):1261–8
Oxidation of glycerol differentiates African from European isolates of Mycoplasma mycoides subspecies mycoides SC (small colony) [see comments] Houshaymi BM, et al. **Vet Rec** 1997 Feb 15;140(7):182–3. Comment in: Vet Rec 1997 Mar 29;140(13):348.
Consequences of inadvertent microbial contamination of dextrose solutions. Mendie UE, et al. **West Afr J Med** 1996 Oct–Dec;15(4):190–5
The C–terminal domain of Snf3p is sufficient to complement the growth defect of snf3 null mutations in Saccharomyces cerevisiae: SNF3 functions in glucose recognition. Coons DM, et al. **Yeast** 1997 Jan;13(1):9–20
Pyruvate decarboxylase: an indispensable enzyme for growth of Saccharomyces cerevisiae on glucose. Flikweert MT, et al. **Yeast** 1996 Mar 15;12(3):247–57
Expression of the SUC2 gene of Saccharomyces cerevisiae is induced by low levels of glucose. Ozcan S, et al. **Yeast** 1997 Feb;13(2):127–37
The fate of glucose in strains S288C and S173–6B of the yeast Saccharomyces cerevisiae. Pedler SM, et al. **Yeast** 1997 Feb;13(2):119–25
The SKS1 protein kinase is a multicopy suppressor of the snf3 mutation of Saccharomyces cerevisiae. Yang Z, et al. **Yeast** 1996 Nov;12(14):1407–19
Comparative glucose and fructose incorporation and conversion by in vitro produced bovine embryos. Guyader–Joly C, et al. **Zygote** 1996 May;4(2):85–91
[The cytochemical observation of inosine effect on glucose metabolism of BGC–823 human gastric carcinoma cell line] Yang X, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan; 18(1):10–2 (Eng. Abstr.) **(Chi)**
[Role of the liver as a glucose sensor in the integrated response to hypoglycemia] Hamilton–Wessler M, et al. **Journ Annu Diabetol Hotel Dieu** 1996;:19–35 (44 ref.) **(Fre)**
[Role of the liver in the regulation of glucose metabolism in diabetes and chronic liver disease] Cotrozzi G, et al. **Ann Ital Med Int** 1997 Apr–Jun;12(2):84–91 (86 ref.) (Eng. Abstr.) **(Ita)**
[Inhibitory effects of glucose utilization by gymnema acids in the guinea–pig ileal longitudinal muscle] Shimizu K, et al. **J Smooth Muscle Res** 1996 Oct;32(5):219–28 (Eng. Abstr.) **(Jpn)**
[Energy substrate metabolism during stress] Sugimoto H. **Nippon Geka Gakkai Zasshi** 1996 Sep;97(9):726–32 (17 ref.) (Eng. Abstr.) **(Jpn)**
[18F–fluorodeoxyglucose positron emission tomography in Parkinson's disease] Arahata Y, et al. **Nippon Rinsho** 1997 Jan;55(1):222–6 (19 ref.) (Eng. Abstr.) **(Jpn)**
[Glucose transporter] Oka Y. **Nippon Rinsho** 1996 Mar; 54(3):632–7 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Glucose metabolism and blood flow studies in 2 cases with juvenile Parkinson's disease] Shibasaki T. **Nippon Rinsho** 1997 Jan;55(1):95–100 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Hemocirculation and metabolism in intraventricular tumors: kinetic analysis of glucose metabolism] Shioya H, et al. **No Shinkei Geka** 1996 Mar;24(3):211–9 (Eng. Abstr.) **(Jpn)**
[Glucose—friend or foe of the hypoxic–ischemic brain?] Rootwelt T. **Tidsskr Nor Laegeforen** 1997 Feb 20; 117(5):664–7 (50 ref.) (Eng. Abstr.) **(Nor)**
[The effect of glucose and mannitol on transperitoneal transport; in vitro studies] Czyżewska K, et al. **Przegl Lek** 1997;54(2):107–11 (Eng. Abstr.) **(Pol)**
[Glucose and galactose absorption in the small intestine of rats in vivo] Gromova LV, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):46–56 (Eng. Abstr.) **(Rus)**
[Ca2(+)–dependent glucose absorption in the small intestine of rats under head–down tilt stress] Sheptitskiĭ VA, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):125–30 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Transcapillary ultrafiltration and peritoneal equilibration test in pediatric patients. Kaku Y, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):476–82
Functional activation of cerebral glucose uptake after carotid body stimulation. Alvarez–Buylla R, et al. **Adv Exp Med Biol** 1996;410:411–20
Maintaining muscle protein anabolism after a metabolic stress: role of dextrose vs. amino acid availability. Borel MJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E36–44
Glucose and amino acid absorption in house sparrow intestine and its dietary modulation. Caviedes–Vidal E, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R561–8
A model to measure insulin effects on glucose transport and phosphorylation in muscle: a three–tracer study. Saccomani MP, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E170–85
TNF directly stimulates glucose uptake and leucine oxidation and inhibits FFA flux in conscious dogs. Sakurai Y, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E864–72
Glucose transport and equilibrium across alveolar–airway barrier of rat. Saumon G, et al. **Am J Physiol** 1996 Feb; 270(2 Pt 1):L183–90
Effect of changes in paracellular permeability on airspace liquid clearance: role of glucose transport. Saumon G, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L191–8
Effect of glucose on uptake of radiolabeled glucose, 2–DG, and 3–O–MG by the perfused rat liver. Sweet IR, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E384–96
Insulin–mimetic agents vanadate and pervanadate stimulate glucose but inhibit amino acid uptake. Tsiani E, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C156–62
Effect of grafted PEG–2000 on the size and permeability of vesicles. Nikolova AN, et al. **Biochim Biophys Acta** 1996 Nov 22;1304(2):120–8
Sieving coefficients for small solutes during experimental peritoneal dialysis in rats. Park MS, et al. **Blood Purif** 1995 Nov–Dec;13(6):289–300
Flow cytometric analysis of glucose transport by rat brain cells. Aller CB, et al. **Cytometry** 1997 Mar 1;27(3):262–8
A new role for enteric glucagon–37: acute stimulation of glucose absorption in rat small intestine. Stümpel F, et al. **FEBS Lett** 1997 Jun 30;410(2–3):515–9
Modelling glucose transport in Saccharomyces cerevisiae DFY1 in different growth phases. Fuhrmann GF, et al. **Folia Microbiol (Praha)** 1996;41(1):91–2
Acute increase by portal insulin in intestinal glucose absorption via hepatoenteral nerves in the rat. Stümpel F, et al. **Gastroenterology** 1996 Jun;110(6):1863–9
Influence of peppermint oil on absorptive and secretory processes in rat small intestine. Beesley A, et al. **Gut** 1996 Aug;39(2):214–9
Intestinal transport of water, sodium & glucose from an electrolyte solution with & without bicarbonate. Islam S, et al. **Indian J Med Res** 1996 Oct;104:254–6
Peptide regulation of intestinal glucose absorption. Bird AR, et al. **J Anim Sci** 1996 Oct;74(10):2523–40 (267 ref.)
Transport of D–glucose and 2–fluorodeoxyglucose across the blood–brain barrier in humans. Hasselbalch SG, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):659–66
Presteady–state currents of the rabbit Na+/glucose cotransporter (SGLT1). Hazama A, et al. **J Membr Biol** 1997 Jan 15;155(2):175–86
Lysophosphatidic acid decreases glutamate and glucose uptake by astrocytes. Keller JN, et al. **J Neurochem** 1996 Dec;67(6):2300–5
Glucose does not facilitate the absorption of sorbitol perfused in situ in the human small intestine. Beaugerie L, et al. **J Nutr** 1997 Feb;127(2):341–4
Selection for growth does not affect apparent energetic efficiency of jejunal glucose uptake in mice. Fan YK, et al. **J Nutr** 1996 Nov;126(11):2851–60
Selection for body composition does not affect energetic efficiency of jejunal glucose uptake in mice. Fan YK, et al. **J Nutr** 1996 Nov;126(11):2861–6
Maternal semistarvation and streptozotocin–diabetes in rats have different effects on the in vivo glucose uptake by peripheral tissues in their female adult offspring. Holemans K, et al. **J Nutr** 1997 Jul;127(7):1371–6
The water–soluble extract of chicory reduces glucose uptake from the perfused jejunum in rats. Kim M, et al. **J Nutr** 1996 Sep;126(9):2236–42
Suppression of glucose absorption by some fractions extracted from Gymnema sylvestre leaves. Shimizu K, et al. **J Vet Med Sci** 1997 Apr;59(4):245–51
Influence of moderate physical exercise on insulin–mediated and non–insulin–mediated glucose uptake in healthy subjects. Araújo–Vilar D, et al. **Metabolism** 1997 Feb; 46(2):203–9
The relationship between external glucose concentration and cAMP levels inside Escherichia coli: implications for models of phosphotransferase–mediated regulation of adenylate cyclase. Notley–McRobb L, et al. **Microbiology** 1997 Jun;143 (Pt 6):1909–18
Developmental study of ultrastructural and biochemical changes in isolated chick brain microvessels. Nico B, et al. **Microvasc Res** 1997 Jan;53(1):79–91
A test for passive absorption of glucose in yellow–rumped warblers and its ecological implications. Afik D, et al. **Physiol Zool** 1997 May–Jun;70(3):370–7
Uptake capacity in vitro for glucose and methionine and in situ for oleic acid in the proximal small intestine of posthatch chicks. Noy Y, et al. **Poult Sci** 1996 Aug; 75(8):998–1002
A physico–chemical perspective of plant polysaccharides in relation to glucose absorption, insulin secretion and the entero–insular axis. Ellis PR, et al. **Proc Nutr Soc** 1996 Nov;55(3):881–98 (76 ref.)
Effect of cholera toxin on glucose absorption and net movements of water and electrolytes in the intestinal loop of sheep. Hyun HS, et al. **Zentralbl Veterinarmed A** 1996 Dec;43(10):611–8
Effects of postoperative periods on glucose absorption and electrolyte secretion in the intestinal loop of sheep. Hyun HS, et al. **Zentralbl Veterinarmed A** 1995 Nov;42(9):601–10

PHARMACOLOGY

The Crabtree effect: a new look at the old problem. Wojtczak L. **Acta Biochim Pol** 1996;43(2):361–8 (37 ref.)
Effects of prolonged glucose stimulation on pancreatic beta cells: from increased sensitivity to desensitization. Purrello F, et al. **Acta Diabetol** 1996 Dec;33(4):253–6 (18 ref.)
Impaired glucose tolerance and mild hyperglycemia in sucrose–fed rats does not impair insulin secretion. Wilson M, et al. **Acta Diabetol** 1996 Sep;33(3):211–5
Effect of hyperglycaemia on the hepatic metabolism and excretion of xenobiotics. Fischer E, et al. **Acta Physiol Hung** 1995;83(4):363–72
Pancreastatin modulates glucose–stimulated insulin secretion from the perfused rat pancreas. Ahrén B, et al. **Acta Physiol Scand** 1996 Sep;158(1):63–70
Perchlorate is hypoglycaemic by amplifying glucose–stimulated insulin secretion in mice. Larsson–Nyrén G. **Acta Physiol Scand** 1996 Sep; 158(1):71–6
Regulation of lipogenic enzyme expression by glucose in liver and adipose tissue: a review of the potential cellular and molecular mechanisms. Foufelle F, et al. **Adv Enzyme Regul** 1996;36:199–226 (91 ref.)
Glucose and the insulin–releasing drug tolbutamide attenuate the effects of morphine and angiotensin on alcohol consumption. Grupp LA, et al. **Alcohol** 1997 Jan–Feb; 14(1):71–9
N–3 fatty acids do not lead to an increased diabetic risk in patients with hyperlipidemia and abnormal glucose tolerance. Italian Fish Oil Multicenter Study. Sirtori CR, et al. **Am J Clin Nutr** 1997 Jun;65(6):1874–81
Ad libitum food intake in humans after manipulation of glycogen stores. Snitker S, et al. **Am J Clin Nutr** 1997 Apr; 65(4):941–6
Differences in insulin and sympathetic responses to glucose ingestion due to family history of hypertension. Masuo K, et al. **Am J Hypertens** 1996 Aug;9(8):739–45
Osmotic agents and buffers in peritoneal dialysis solution: monocyte cytokine release and in vitro cytotoxicity. Plum J, et al. **Am J Kidney Dis** 1997 Sep;30(3):413–22
Effects of high glucose culture on EGF effects and EGF receptors in the LLC–PK1 cells. Yang ML, et al.

Am J Nephrol 1997;17(2):193–8
Effects of prolonged glucose infusion on insulin secretion, clearance, and action in normal subjects. Boden G, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E251–8
Whole body and splanchnic metabolic and circulatory effects of glucose during beta-adrenergic receptor inhibition. Brundin T, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E678–87
Low insulin and high glucose induce abnormal relaxation in cultured adult rat ventricular myocytes. Davidoff AJ, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H159–67
Altered fluxes responsible for reduced hepatic glucose production and gluconeogenesis by exogenous glucose in rats. Hellerstein MK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E163–72
Glycosphingolipid synthesis and proliferation in a renal cell line grown in high glucose. el-Khatib M, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F476–84
High glucose-induced TGF-beta 1 regulates mesangial production of heparan sulfate proteoglycan. Kolm V, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F812–21
Regulation of rat Na+/Pi cotransporter-1 gene expression: the roles of glucose and insulin. Li H, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1021–8
Effect of amino acid and glucose administration during postexercise recovery on protein kinetics in dogs. Okamura K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E1023–30
Glucose turnover in humans in the basal state and after intravenous glucose: a comparison of two models. Overkamp D, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E284–96
Glucose ingestion affects cardiac ANS in healthy subjects with different amounts of body fat. Paolisso G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E471–8
Glucose-induced transmigration of monocytes is linked to phosphorylation of PECAM-1 in cultured endothelial cells. Rattan V, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E711–7
Glucose and insulin-induced inhibition of fatty acid oxidation: the glucose-fatty acid cycle reversed. Sidossis LS, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E733–8
Effect of glucose on uptake of radiolabeled glucose, 2-DG, and 3-O-MG by the perfused rat liver. Sweet IR, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E384–96
Effect of a glucokinase inhibitor on energy production and insulin release in pancreatic islets. Sweet IR, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E606–25
Role for GTP in glucose-induced phospholipase C activation in pancreatic islets. Vadakekalam J, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E85–95
High glucose stimulates expression of p27Kip1 in cultured mouse mesangial cells: relationship to hypertrophy. Wolf G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F348–56
Altered metabolism and superoxide generation in neural tissue of rat embryos exposed to high glucose. Yang X, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E173–80
Does dextrose affect analgesia or the side effects of intrathecal sufentanil? Gage JC, et al. **Anesth Analg** 1997 Oct;85(4):826–30
The effects of neurotransmitter antagonists and glucose on luteinizing hormone secretion in growth-restricted wethers. Branum JC, et al. **Anim Reprod Sci** 1997 Jan; 45(4):263–72
Enhancement of glucose-induced insulin secretion in transgenic mice overexpressing human VIP gene in pancreatic beta cells. Kato I, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:232–42; discussion 242–3 (28 ref.)
Regulation of the expression of lipogenic enzyme genes by carbohydrate. Towle HC, et al. **Annu Rev Nutr** 1997; 17:405–33 (135 ref.)
Culturing enterohemorrhagic Escherichia coli in the presence and absence of glucose as a simple means of evaluating the acid tolerance of stationary-phase cells. Buchanan RL, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4009–13
Metabolic responses of pyruvate decarboxylase-negative Saccharomyces cerevisiae to glucose excess. Flikweert MT, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3399–404
Alleviation of glucose repression of maltose metabolism by MIG1 disruption in Saccharomyces cerevisiae. Klein CJ, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4441–9
Crosstalk between the cAMP and inositol trisphosphate-signalling pathways in pancreatic beta-cells. Liu YJ, et al. **Arch Biochem Biophys** 1996 Oct 15; 334(2):295–302
Effects of diet enrichment with glucose and casein on blood cortisol concentration of calves in early postnatal period. Friedrich M. **Arch Vet Pol** 1995;35(1–2):117–25
Interaction of glucose and metformin with isolated red cell membrane. Freisleben HJ, et al. **Arzneimittelforschung** 1996 Aug;46(8):773–8
Effect of glucose, insulin, and insulin-like growth factor-I on glucose transport activity in cultured rat vascular smooth muscle cells. Fujiwara R, et al. **Atherosclerosis** 1996 Nov 15;127(1):49–57
Effect of glucose-mediated LDL oxidation on the P388D1 macrophage-like cell line. Millican SA, et al. **Atherosclerosis** 1997 Feb 28;129(1):17–25
Effect of long-term exogenous hyperinsulinemia and fructose or glucose supplementation on triglyceride turnover in rats. Yoshino G, et al. **Atherosclerosis** 1997 Feb 28;129(1):33–9
Real time electrochemical detection of 5-HT/insulin secretion from single pancreatic islets: effect of glucose and K+ depolarization. Barbosa RM, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):100–4
Glucose induces cytoplasmic Na+ oscillations in pancreatic beta-cells. Grapengiesser E. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):830–5
The IRI release from insulin gene-transduced hepatic cells responds to ambient glucose concentration. Hayashi M, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):470–5
Effect of glucose concentration on swimming motility in enterobacteria. Lai HC, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):692–5
Cytosolic Ca2+ gradients in pancreatic islet-cells stimulated by glucose and carbachol. Martín F, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):465–8
Adenosine 3',5'-cyclic monophosphate mimics the inhibitory effect of high glucose on MAP kinase phosphorylation in rat mesangial cells. Matsuo H, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):746–54
Glucose-induced down-regulation of NO production and inducible NOS expression in cultured rat aortic vascular smooth muscle cells: role of protein kinase C. Nishio E, et al. **Biochem Biophys Res Commun** 1996 Dec 24; 229(3):857–63
Absence of short-term regulation over gluconeogenesis by glucose in the insect Manduca sexta L. Thompson SN. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):702–6
Regulation of osteoclastic bone resorption by glucose. Williams JP, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):646–51
Glucose inhibits phenobarbital-induced delta-aminolevulinate synthase expression in normal but not in diabetic rat hepatocytes. Varone CL, et al. **Biochem Cell Biol** 1996;74(2):271–81
Modulation of neutral protease expression in human mesangial cells by hyperglycaemic culture. Abdel Wahab N, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):777–83
Glucose-induced glycogenesis in the liver involves the glucose-6-phosphate-dependent dephosphorylation of glycogen synthase. Cadefau J, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):745–50
Glucose induces the translocation of glycogen synthase to the cell cortex in rat hepatocytes. Fernández-Novell JM, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):227–31
Induction of fatty acid synthase and S14 gene expression by glucose, xylitol and dihydroxyacetone in cultured rat hepatocytes is closely correlated with glucose 6-phosphate concentrations. Mourrieras F, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):345–9
Role of ATP and Pi in the mechanism of insulin secretion in the mouse insulinoma betaTC3 cell line. Papas KK, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):807–14
cAMP prevents the glucose-mediated stimulation of GLUT2 gene transcription in hepatocytes. Rencurel F, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):441–8
Insulin/glucose-, pyruvate- and polyunsaturated fatty acid-responsive region(s) of rat fatty acid synthase gene promoter. Fukuda H, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):987–96
Captopril reverses high glucose-induced effects on LLC-PK1 cells partly by enhancing facilitative glucose transporter messenger RNA expressions. Yang ML, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):511–9
Effects of insulin, epinephrine, and glucose on regulation of transcription of the serine dehydratase gene in newborn dogs. Feng BC, et al. **Biochem Mol Med** 1996 Apr; 57(2):91–6
Glucose-mediated regulation of GLUT-1 and GLUT-3 mRNA in human retinal endothelial cells. Knott RM, et al. **Biochem Soc Trans** 1996 May;24(2):216S
IUF1, a nutrient responsive transcription factor in the pancreatic beta-cells. Macfarlane WM, et al. **Biochem Soc Trans** 1996 May;24(2):239S
Is type IV phospholipase A2 involved in the regulation of insulin secretion? Parker KJ, et al. **Biochem Soc Trans** 1997 May;25(2):213S
Glucose mediated regulation of transforming growth factor beta in human retinal endothelial cells. Pascal MM, et al. **Biochem Soc Trans** 1996 May;24(2):228S
Expression of constructs between the glucose-6-phosphatase promoter and a reporter gene in an insulinoma cell line: regulation by glucose, dibutyryl cAMP and dexamethasone. Schmoll D, et al. **Biochem Soc Trans** 1997 May;25(2):180S
New insight into the regulation of liver glycogen metabolism by glucose. Stalmans W, et al. **Biochem Soc Trans** 1997 Feb;25(1):19–25 (35 ref.)
Glucose-responsitivity and expression of an ATP-stimulatable, Ca(2+)-independent phospholipase A2 enzyme in clonal insulinoma cell lines. Ramanadham S, et al. **Biochim Biophys Acta** 1997 Jan 21;1344(2):153–64
Effect of L-fucose and D-glucose concentration on L-fucoprotein metabolism in human Hep G2 cells and changes in fucosyltransferase and alpha-L-fucosidase activity in liver of diabetic rats. Wiese TJ, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):61–72
Poststress glucose mitigates behavioral impairment in rats in the "learned helplessness" model of psychopathology. Minor TR, et al. **Biol Psychiatry** 1997 Sep 1;42(5):324–34
Alterations of intraembryonic metabolites in preimplantation mouse embryos exposed to elevated concentrations of glucose: a metabolic explanation for the developmental retardation seen in preimplantation embryos from diabetic animals. Moley KH, et al. **Biol Reprod** 1996 Jun; 54(6):1209–16
Fluorescence ratio imaging of interstitial pH in solid tumours: effect of glucose on spatial and temporal gradients. Dellian M, et al. **Br J Cancer** 1996 Oct;74(8):1206–15
Impairment of endothelium-dependent but not of endothelium-independent dilatation in guinea-pig aorta rings incubated in the presence of elevated glucose. Dorigo P, et al. **Br J Pharmacol** 1997 Jul;121(5):972–6
Injection with gold thioglucose impairs sensitivity to glucose: evidence that glucose-responsive neurons are important for long-term regulation of body weight. Bergen HT, et al. **Brain Res** 1996 Sep 23;734(1–2):332–6
Differential effects of diet and obesity on high and low affinity sulfonylurea binding sites in the rat brain. Levin BE, et al. **Brain Res** 1996 Nov 11;739(1–2):293–300
Intra-septal infusions of glucose potentiate inhibitory avoidance deficits when co-infused with the GABA agonist muscimol. Parent MB, et al. **Brain Res** 1997 Jan 16;745(1–2):317–20
Effects of volatile anesthetics on hippocampal slice metabolism, response to anoxia with and without glucose. Raley-Susman KM, et al. **Brain Res** 1997 Apr 25;755(1):1–8
Glucose attenuation of atropine-induced deficits in paradoxical sleep and memory. Stone WS, et al. **Brain Res** 1995 Oct 2;694(1–2):133–8
Prenatal exposure to alcohol in adult rats: relationships between sleep and memory deficits, and effects of glucose administration on memory. Stone WS, et al. **Brain Res** 1996 Dec 2;742(1–2):98–106
Glucose availability alters ischaemia-induced changes in intracellular pH and calcium of isolated rat spinal roots. Wächtler J, et al. **Brain Res** 1996 Jun 24;725(1):30–6
Excessive oxygen or glucose supply does not alter the blood flow response to somatosensory stimulation or spreading depression in rats. Wolf T, et al. **Brain Res** 1997 Jul 4; 761(2):290–9
The effect of satiety on responses of gustatory neurons in the amygdala of alert cynomolgus macaques. Yan J, et al. **Brain Res** 1996 Nov 18;740(1–2):193–200
Glucose elevations alter bradykinin-stimulated intracellular calcium accumulation in cultured endothelial cells. Pieper GM, et al. **Cardiovasc Res** 1997 Apr;34(1):169–78
The control of mitochondrial respiration in yeast: a possible role of the outer mitochondrial membrane. Ahmadzadeh M, et al. **Cell Biochem Funct** 1996 Sep;14(3):201–8
High glucose and hyperosmolarity increase heparin-binding epidermal growth factor-like growth factor (HB-EGF) production in cultured human aortic endothelial cells. Asakawa H, et al. **Cell Biochem Funct** 1996 Sep;14(3):181–6
Glucose-induced [Ca2+]i oscillations in single human pancreatic islets. Martín F, et al. **Cell Calcium** 1996 Nov; 20(5):409–14
Cationic events stimulated by D-glucose in depolarized islet cells. Jijakli H, et al. **Cell Signal** 1997 May-Jun; 9(3–4):283–90
Stimulation of insulin release by D-glucose in depolarized pancreatic islets. Malaisse WJ. **Cell Signal** 1997 May-Jun; 9(3–4):265–8
Glucose, potassium, and CCK-8 induce increases in membrane-associated PKC activity that correspond to increases in [Ca2+]i in islet cells from neonatal rats. Wang J, et al. **Cell Signal** 1996 Jun;8(4):305–11
Effects of caffeine and acetylcholine on glucose-stimulated insulin release from islet transplants in mice. Shi CL. **Cell Transplant** 1997 Jan-Feb;6(1):33–7
High glucose concentrations increase endothelial cell permeability via activation of protein kinase C alpha. Hempel A, et al. **Circ Res** 1997 Sep;81(3):363–71
Increase in muscle nerve sympathetic activity after glucose intake is blunted in the elderly. Fagius J, et al. **Clin Auton Res** 1996 Aug;6(4):195–203
Haemodynamic and hormonal effects of two different oral glucose loads in normal human subjects. Puvi-Rajasingham S, et al. **Clin Auton Res** 1997 Jun;7(3):155–61
Regulation of mesangial chloride channels by insulin and glucose: role in diabetic nephropathy. Ling BN. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):89–94 (42 ref.)
Glucose repression/derepression in budding yeast: SNF1 protein kinase is activated by phosphorylation under derepressing conditions, and this correlates with a high AMP:ATP ratio. Wilson WA, et al. **Curr Biol** 1996 Nov 1;6(11):1426–34
Expression of the Sclerotinia sclerotiorum polygalacturonase pg1 gene: possible involvement of CREA in glucose catabolite repression. Reymond-Cotton P, et al. **Curr Genet** 1996 Aug;30(3):240–5
The glucose-induced thermogenesis in different tissues in man. Simonsen L. **Dan Med Bull** 1997 Feb;44(1):56–69 (191 ref.)
Islet capillary blood pressure increase mediated by hyperglycemia in NIDDM GK rats. Carlsson PO, et al. **Diabetes** 1997 Jun;46(6):947–52
High D-glucose-induced changes in endothelial Ca2+/EDRF signaling are due to generation of superoxide anions. Graier WF, et al. **Diabetes** 1996 Oct;45(10):1386–95
Mitogen-activated protein kinase cascade is activated in glomeruli of diabetic rats and glomerular mesangial cells cultured under high glucose conditions. Haneda M, et al. **Diabetes** 1997 May;46(5):847–53
D-glucose stimulates mesangial cell GLUT1 expression and basal and IGF-I-sensitive glucose uptake in rat mesangial cells: implications for diabetic nephropathy. Heilig CW,

et al. **Diabetes** 1997 Jun;46(6):1030–9
Increased synthesis of tumor necrosis factor–alpha in uterine explants from pregnant diabetic rats and in primary cultures of uterine cells in high glucose. Pampfer S, et al. **Diabetes** 1997 Jul;46(7):1214–24
Effects of glucose ingestion versus infusion on pulsatile insulin secretion. The incretin effect is achieved by amplification of insulin secretory burst mass. Pørksen N, et al. **Diabetes** 1996 Oct;45(10):1317–23
Hexokinase shift to mitochondria is associated with an increased sensitivity to glucose in rat pancreatic islets. Rabuazzo AM, et al. **Diabetes** 1997 Jul;46(7):1148–52
Diadenosine polyphosphates. A novel class of glucose–induced intracellular messengers in the pancreatic beta–cell. Ripoll C, et al. **Diabetes** 1996 Oct;45(10):1431–4
Glucose stimulates islet beta–cell mitogenesis through GTP–binding proteins and by protein kinase C–dependent mechanisms. Sjöholm A. **Diabetes** 1997 Jul;46(7):1141–7
Regulation of glomerular epithelial cell production of fibronectin and transforming growth factor–beta by high glucose, not by angiotensin II. van Det NF, et al. **Diabetes** 1997 May;46(5):834–40
Metformin potentiates glucose–stimulated insulin secretion [letter] Marchetti P, et al. **Diabetes Care** 1996 Jul; 19(7):781–2
High glucose inhibits effect of ascorbic acid on [35S] sulphate incorporation in mesangial cell and matrix proteoglycan. McAuliffe AV, et al. **Diabetes Res Clin Pract** 1997 Aug; 37(2):101–8
Effect of an aldose reductase inhibitor on type IV collagen production by human endothelial cells cultured in high glucose. Bakillah A, et al. **Diabetologia** 1996 Jun; 39(6):641–8
Glucose and alpha–ketoisocaproate induce transient inward currents in rat pancreatic beta cells. Best L. **Diabetologia** 1997 Jan;40(1):1–6
Beta–cell hypersensitivity to glucose following 24–h exposure of rat islets to fatty acids. Hosokawa H, et al. **Diabetologia** 1997 Apr;40(4):392–7
High glucose level inhibits capacitative Ca2+ influx in cultured rat mesangial cells by a protein kinase C–dependent mechanism. Menè P, et al. **Diabetologia** 1997 May;40(5):521–7
Glucose and insulin independently reduce the fibrinolytic potential of human vascular smooth muscle cells in culture. Pandolfi A, et al. **Diabetologia** 1996 Dec;39(12):1425–31
Regulatory role of eicosanoids in extracellular matrix overproduction induced by long–term exposure to high glucose in cultured rat mesangial cells. Pricci F, et al. **Diabetologia** 1996 Sep;39(9):1055–62
High glucose enhances the gene expression of interleukin–8 in human endothelial cells, but not in smooth muscle cells: possible role of interleukin–8 in diabetic macroangiopathy. Temaru R, et al. **Diabetologia** 1997 May;40(5):610–3
Glutamine is superior to glucose in stimulating water and electrolyte absorption across rabbit ileum. Islam S, et al. **Dig Dis Sci** 1997 Feb;42(2):420–3
Prolactin does not enhance glucose–stimulated insulin release in red deer stags. McMahon CD, et al. **Domest Anim Endocrinol** 1997 Jan;14(1):47–61
Effects of dietary fructose or glucose on triglyceride production and lipogenic enzyme activities in the liver of Wistar fatty rats, an animal model of NIDDM. Kazumi T, et al. **Endocr J** 1997 Apr;44(2):239–45
Glucose–stimulated genes and prospects of gene therapy for type I diabetes. Mitanchez D, et al. **Endocr Rev** 1997 Aug; 18(4):520–40 (221 ref.)
Increased pancreatic islet blood flow in 48–hour glucose–infused rats: involvement of central and autonomic nervous systems. Atef N, et al. **Endocrinology** 1997 May; 138(5):1836–40
Correlation of the activation of Ca2+/calmodulin–dependent protein kinase II with the initiation of insulin secretion from perifused pancreatic islets. Easom RA, et al. **Endocrinology** 1997 Jun; 138(6):2359–64
Cyclosporin A stimulation of glucose–induced insulin secretion in MIN6 cells. Ebihara K, et al. **Endocrinology** 1996 Dec;137(12):5255–63
Increased susceptibility of islets from diabetes–prone Psammomys obesus to the deleterious effects of chronic glucose exposure. Gross DJ, et al. **Endocrinology** 1996 Dec; 137(12):5610–5
Impaired cytosolic Ca2+ response to glucose and gastric inhibitory polypeptide in pancreatic beta–cells from triphenyltin–induced diabetic hamster. Miura Y, et al. **Endocrinology** 1997 Jul;138(7):2769–75
High glucose stimulates aldosterone–induced hypertrophy via type I mineralocorticoid receptors in neonatal rat cardiomyocytes. Sato A, et al. **Endocrinology** 1996 Oct; 137(10):4145–53
Lowering glucose depletes a thapsigargin–sensitive calcium pool and inhibits transcription of the S14 gene. Sudo Y, et al. **Endocrinology** 1996 Nov;137(11):4677–84
Human pancreatic beta–cell deoxyribonucleic acid–synthesis in islet grafts decreases with increasing organ donor age but increases in response to glucose stimulation in vitro. Tyrberg B, et al. **Endocrinology** 1996 Dec;137(12):5694–9
Insulin and glucose response following oral glucose administration in well–conditioned ponies. Freestone JF, et al. **Equine Vet J Suppl** 1992 Feb;(11):13–7
Heparin–induced structural modifications and oxidative cleavage of human serum albumin in the absence and presence of glucose–implications for transcapillary leakage of albumin in hyperglycaemia. Finotti P, et al. **Eur J Biochem** 1997 Aug 1;247(3):1000–8
Reduced gastric inhibitory polypeptide but normal glucagon–like peptide 1 response to oral glucose in postmenopausal women with impaired glucose tolerance. Ahrén B, et al. **Eur J Endocrinol** 1997 Aug;137(2):127–31
Somatotrope responsiveness to Hexarelin, a synthetic hexapeptide, is refractory to the inhibitory effect of glucose in obesity. Grottoli S, et al. **Eur J Endocrinol** 1996 Dec; 135(6):678–82
Effects of UK–14,304, noradrenaline, and propranolol on insulin release from transplanted mouse islets. Shi CL, et al. **Eur J Endocrinol** 1996 Dec;135(6):724–8
Gut incretin hormones in identical twins discordant for non–insulin–dependent diabetes mellitus (NIDDM)–evidence for decreased glucagon–like peptide 1 secretion during oral glucose ingestion in NIDDM twins. Vaag AA, et al. **Eur J Endocrinol** 1996 Oct;135(4):425–32
Vanadyl sulphate differently influences insulin response to glucose in isolated pancreas of normal rats after in vivo or in vitro exposure. Cadène A, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):145–51
Intracellular mechanism of high D–glucose–induced modulation of vascular cell proliferation. Graier WF, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):221–9
Ionfluxes and metabolism of isolated pancreatic islets after glucose–infusion into rats. Ammon HP, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:30
Glucose–induced fibronectin expression in endothelial cells is mediated by protein kinase C. Mueller HK, et al. **Exp Clin Endocrinol Diabetes** 1997;105(1):32–8
Surfactant secretion by type II pneumocytes is inhibited by high glucose concentrations. Gewolb IH, et al. **Exp Lung Res** 1997 May–Jun;23(3):245–55
The activity of the gluconate–H+ symporter of Schizosaccharomyces pombe cells is down–regulated by D–glucose and exogenous cAMP. Caspari T, et al. **FEBS Lett** 1996 Oct 21;395(2–3):272–6
Glucose activation of the yeast plasma membrane H+–ATPase requires the ubiquitin–proteasome proteolytic pathway. de la Fuente N, et al. **FEBS Lett** 1997 Jul 14; 411(2–3):308–12
The Saccharomyces cerevisiae acetyl–coenzyme A synthetase encoded by the ACS1 gene, but not the ACS2–encoded enzyme, is subject to glucose catabolite inactivation. de Jong–Gubbels P, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):75–81
Glucose stimulates alginate production and algD transcription in Pseudomonas aeruginosa. Ma JF, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):217–21
Effect of beraprost sodium on the increased transendothelial permeation of albumin induced by high concentration of glucose. Kobayashi K, et al. **Fukuoka Igaku Zasshi** 1997 Mar;88(3):44–8
Multicopy FZF1 (SUL1) suppresses the sulfite sensitivity but not the glucose derepression or aberrant cell morphology of a grr1 mutant of Saccharomyces cerevisiae. Avram D, et al. **Genetics** 1996 Oct;144(2):511–21
Failure of high ambient glucose to affect endothelin–1 synthesis or release by cultured human endothelial cells. Baumgartner–Parzer S, et al. **Horm Metab Res** 1996 Nov; 28(11):610–2
The effect of hyperglycemia and insulin on the replication of cultured human microvascular endothelial cells. Doyle JW, et al. **Horm Metab Res** 1997 Jan;29(1):43–5
The effects of the degree of surgical trauma and glucose load on concentration of thyrotropin, growth hormone and prolactin under enflurane anaesthesia. Redondo M, et al. **Horm Metab Res** 1997 Feb;29(2):66–9
Elevated glucose levels stimulate transforming growth factor–beta 1 (TGF–beta 1), suppress interleukin IL–2, IL–6 and IL–10 production and DNA synthesis in peripheral blood mononuclear cells. Reinhold D, et al. **Horm Metab Res** 1996 Jun;28(6):267–70
The IL–8 production in endothelial cells is stimulated by high glucose. Urakaze M, et al. **Horm Metab Res** 1996 Aug;28(8):400–1
Suppression of TRH–stimulated TSH secretion by glucose–induced hypothalamic somatostatin release. Yang I, et al. **Horm Metab Res** 1996 Oct;28(10):553–7
Factors determining the glucose sensitivity and glucose responsiveness of pancreatic beta cells. Schuit FC. **Horm Res** 1996;46(3):99–106 (80 ref.)
Absence of glucose decreases human fertilization and sperm movement characteristics in vitro. Mahadevan MM, et al. **Hum Reprod** 1997 Jan;12(1):119–23
An in vitro model of diabetes [letter] Atkin SL, et al. **In Vitro Cell Dev Biol Anim** 1996 Jul–Aug;32(7):379–81
Induction of nitric oxide production by polyosides from the cell walls of Streptococcus mutans OMZ 175, a gram–positive bacterium, in the rat aorta. Martin V, et al. **Infect Immun** 1997 Jun;65(6):2074–9
Glucose is not essential for the occurrence of sperm binding and zona pellucida–induced acrosome reaction in the mouse. Urner F, et al. **Int J Androl** 1996 Apr;19(2):91–6
Glucose–regulated stresses induce resistance to camptothecin in human cancer cells. Tomida A, et al. **Int J Cancer** 1996 Nov 4;68(3):391–6
The effect of glucose supplementation on the spoilage microflora and chemical composition of minced beef stored aerobically or under a modified atmosphere at 4 degrees C. Lambropoulou KA, et al. **Int J Food Microbiol** 1996 Jul;30(3):281–91
Microsphere distribution in the pancreas of anesthetized rats. Alloxan stimulates the blood flow to all islets whereas glucose only affects the blood perfusion of a subgroup of islets. Jansson L. **Int J Pancreatol** 1996 Aug;20(1):69–74
The effect of carbohydrate ingestion on the motor skill proficiency of soccer players. Zeederberg C, et al. **Int J Sport Nutr** 1996 Dec;6(4):348–55
Effect of high glucose on permeability of retinal capillary endothelium in vitro. Gillies MC, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):635–42
Effect of increasing glucose concentrations and protein phosphorylation on intercellular communication in cultured rat retinal pigment epithelial cells. Stalmans P, et al. **Invest Ophthalmol Vis Sci** 1997 Jul;38(8):1598–609
High glucose inhibits nitric oxide production in cultured rat mesangial cells. Trachtman H, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1276–82
Effect of glucose administration during the estrous cycle on serum hormone profiles, mRNA for steroidogenic enzymes, and breeding performance of ewes. Rubio JM, et al. **J Anim Sci** 1997 Mar;75(3):775–80
Glucose tolerance, luteinizing hormone release, and reproductive performance of first–litter sows fed two levels of energy during gestation. Xue JL, et al. **J Anim Sci** 1997 Jul;75(7):1845–52
Effects of glucose, glucose plus branched–chain amino acids, or placebo on bike performance over 100 km. Madsen K, et al. **J Appl Physiol** 1996 Dec;81(6):2644–50
Preexercise glucose ingestion and glucose kinetics during exercise. Marmy–Conus N, et al. **J Appl Physiol** 1996 Aug; 81(2):853–7
Oral glucose ingestion increases endurance capacity in normal and diabetic (type I) humans. Ramires PR, et al. **J Appl Physiol** 1997 Aug;83(2):608–14
Effects of dietary manipulations and glucose infusion on glucagon response during exercise in rats. Tadjoré M, et al. **J Appl Physiol** 1997 Jul;83(1):148–52
Muscle glycogen recovery after exercise during glucose and fructose intake monitored by 13C–NMR. Van Den Bergh AJ, et al. **J Appl Physiol** 1996 Oct;81(4):1495–500
Intracerebroventricular injection of methylatropine suppresses insulin response to oral glucose load in rats. Ohnuma H, et al. **J Auton Nerv Syst** 1996 Feb 5; 57(1–2):43–8
Escherichia coli phosphorylates 1,5–Anhydroglucitol and releases 1,5–Anhydroglucitol 6–phosphate when glucose is absent in the medium. Shiga Y, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):173–9
Role of the GLUT 2 glucose transporter in the response of the L–type pyruvate kinase gene to glucose in liver–derived cells. Antoine B, et al. **J Biol Chem** 1997 Jul 18;272(29):17937–43
"Spot 14" protein functions at the pretranslational level in the regulation of hepatic metabolism by thyroid hormone and glucose. Brown SB, et al. **J Biol Chem** 1997 Jan 24; 272(4):2163–6
Upstream stimulatory factor–2 (USF2) activity is required for glucose stimulation of L–pyruvate kinase promoter activity in single living islet beta–cells. Kennedy HJ, et al. **J Biol Chem** 1997 Aug 15;272(33):20636–40
Glucose–induced tyrosine phosphorylation of p125 in beta cells and pancreatic islets. A novel proximal signal in insulin secretion. Konrad RJ, et al. **J Biol Chem** 1996 Sep 27; 271(39):24179–86
The p38/reactivating kinase mitogen–activated protein kinase cascade mediates the activation of the transcription factor insulin upstream factor 1 and insulin gene transcription by high glucose in pancreatic beta–cells. Macfarlane WM, et al. **J Biol Chem** 1997 Aug 15;272(33):20936–44
Induction by glucose of genes coding for glycolytic enzymes in a pancreatic beta–cell line (INS–1). Roche E, et al. **J Biol Chem** 1997 Jan 31;272(5):3091–8
Association of phosphofructokinase–M with caveolin–3 in differentiated skeletal myotubes. Dynamic regulation by extracellular glucose and intracellular metabolites. Scherer PE, et al. **J Biol Chem** 1997 Aug 15;272(33):20698–705
Mitochondrial DNA is required for regulation of glucose–stimulated insulin secretion in a mouse pancreatic beta cell line, MIN6. Soejima A, et al. **J Biol Chem** 1996 Oct 18;271(42):26194–9
Glucose increases both the plasma membrane number and phosphorylation of insulin–like growth factor II/mannose 6–phosphate receptors. Zhang Q, et al. **J Biol Chem** 1997 Sep 19;272(38):23703–6
High D–glucose induces alterations of endothelial cell structure in a cell–culture model. Salameh A, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):182–90
Glucose–induced microautophagy in Pichia pastoris requires the alpha–subunit of phosphofructokinase. Yuan W, et al. **J Cell Sci** 1997 Aug;110 (Pt 16):1935–45
Mechanisms of defective glucose–induced insulin release in human pancreatic islets transplanted to diabetic nude mice. Eizirik DL, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2660–3
The effect of oral glucose on serum free insulin–like growth factor–I and –II in health adults. Frystyk J, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3124–7
In obesity, glucose load loses its early inhibitory, but maintains its late stimulatory, effect on somatotrope

secretion. Grottoli S, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2261–5

Alterations in the glucose-stimulated insulin secretory dose-response curve and in insulin clearance in nondiabetic insulin-resistant individuals. Jones CN, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1834–8

Effects of fasting and glucose load on free cortisol responses to stress and nicotine. Kirschbaum C, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1101–5

Effect of interferon-gamma and glucose on major histocompatibility complex class I and class II expression by pancreatic beta- and non-beta-cells. Pavlovic D, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2329–36

Expression of glucokinase in glucose-unresponsive human fetal pancreatic islet-like cell clusters. Tu J, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):943–8

Local ventromedial hypothalamus glucose perfusion blocks counterregulation during systemic hypoglycemia in awake rats. Borg MA, et al. **J Clin Invest** 1997 Jan 15;99(2):361–5

Glucose promotes survival of rat pancreatic beta cells by activating synthesis of proteins which suppress a constitutive apoptotic program. Hoorens A, et al. **J Clin Invest** 1996 Oct 1;98(7):1568–74

Glucose-stimulated insulin secretion correlates with changes in mitochondrial and cytosolic Ca2+ in aequorin-expressing INS-1 cells. Kennedy ED, et al. **J Clin Invest** 1996 Dec 1;98(11):2524–38

Prolonged exposure of human beta cells to elevated glucose levels results in sustained cellular activation leading to a loss of glucose regulation. Ling Z, et al. **J Clin Invest** 1996 Dec 15;98(12):2805–12

Glucose plus insulin regulate fat oxidation by controlling the rate of fatty acid entry into the mitochondria. Sidossis LS, et al. **J Clin Invest** 1996 Nov 15;98(10):2244–50

Growth as a solid tumor or reduced glucose concentrations in culture reversibly induce CD44-mediated hyaluronan recognition by Chinese hamster ovary cells. Zheng Z, et al. **J Clin Invest** 1997 Sep 1;100(5):1217–29

Glucose and norepinephrine challenges during abomasal infusion of cis or trans octadecenoates in Holstein cows. Gaynor PJ, et al. **J Dairy Sci** 1996 Sep;79(9):1590–5

Effects on nutrient and hormonal profile of long-term infusions of glucose or insulin plus glucose in cows treated with recombinant bovine somatotropin before peak milk yield. Léonard M, et al. **J Dairy Sci** 1997 Jan;80(1):127–43

Glucose-mediated alteration of cellular function in human periodontal ligament cells. Nishimura E, et al. **J Dent Res** 1996 Sep;75(9):1664–71

High glucose and hyperosmolarity increase secretion of interleukin-1 beta in cultured human aortic endothelial cells. Asakawa H, et al. **J Diabetes Complications** 1997 May-Jun;11(3):176–9

Desensitisation of somatostatin, TRH and GHRH responses to glucose in the diabetic (Goto-Kakizaki) rat hypothalamus. Lewis BM, et al. **J Endocrinol** 1996 Oct; 151(1):13–7

Effects of somatostatin-28 on circulating concentrations of insulin and gut hormones in sheep. Martin PA, et al. **J Endocrinol** 1996 Oct;151(1):107–12

Luminal peptide YY-releasing factors in the isolated vascularly perfused rat colon. Plaisancié P, et al. **J Endocrinol** 1996 Dec;151(3):421–9

Roles of GTP and phospholipase C in the potentiation of Ca(2+)-induced insulin secretion by glucose in rat pancreatic islets. Vadakekalam J, et al. **J Endocrinol** 1997 Apr;153(1):61–71

Effects of glucose on placental hormones in the human term placenta in vitro. Hsieh TT, et al. **J Formos Med Assoc** 1997 May;96(5):309–13

The effects of GLP-1 on insulin release in young and old rats in the fasting state and during an intravenous glucose tolerance test. De Ore K, et al. **J Gerontol A Biol Sci Med Sci** 1997 Sep;52(5):B245–9

Altered cellular heterogeneity as a possible mechanism for the maintenance of organ function in senescent animals. Ruhe RC, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan; 52(1):B53–8

Expression of apoptosis-regulatory genes in renal proximal tubular epithelial cells exposed to high ambient glucose and in diabetic kidneys. Ortiz A, et al. **J Investig Med** 1997 Feb;45(2):50–6

Regulation of fatty acid oxidation by acetyl-CoA generated from glucose utilization in isolated myocytes. Abdel-aleem S, et al. **J Mol Cell Cardiol** 1996 May;28(5):825–33

Two distinct signaling pathways activated by activin A in glucose-responsive pancreatic beta-cell lines. Shibata H, et al. **J Mol Endocrinol** 1996 Jun;16(3):249–58

Protective effects of pyridoxal phosphate against glucose deprivation-induced damage in cultured hippocampal neurons. Geng MY, et al. **J Neurochem** 1997 Jun; 68(6):2500–6

Increased expression of calbindin D28k via herpes simplex virus amplicon vector decreases calcium ion mobilization and enhances neuronal survival after hypoglycemic challenge. Meier TJ, et al. **J Neurochem** 1997 Sep; 69(3):1039–47

Mechanisms and effects of intracellular calcium buffering on neuronal survival in organotypic hippocampal cultures exposed to anoxia/aglycemia or to excitotoxins. Abdel-Hamid KM, et al. **J Neurosci** 1997 May 15; 17(10):3538–53

Opposite membrane potential changes induced by glucose deprivation in striatal spiny neurons and in large aspiny interneurons. Calabresi P, et al. **J Neurosci** 1997 Mar 15; 17(6):1940–9

Endogenous adenosine mediates the presynaptic inhibition induced by aglycemia at corticostriatal synapses. Calabresi P, et al. **J Neurosci** 1997 Jun 15;17(12):4509–16

The effects of elevated glucose on Na+/K(+)-ATPase of cultured bovine retinal pigment epithelial cells measured by a new nonradioactive rubidium uptake assay. Crider JY, et al. **J Ocul Pharmacol Ther** 1997 Aug;13(4):337–52

Minimal haemolysis in blood co-infused with amino acid and dextrose solutions in vitro. Jankov RP, et al. **J Paediatr Child Health** 1997 Jun;33(3):250–2

Glucose modulates growth of gingival fibroblasts and periodontal ligament cells: correlation with expression of basic fibroblast growth factor. Ohgi S, et al. **J Periodontal Res** 1996 Nov;31(8):579–88

Characterization of glucose-mediated insulin release from implantable polymers. Brown LR, et al. **J Pharm Sci** 1996 Dec;85(12):1341–5

Effects of rebamipide in a model of experimental diabetes and on the synthesis of transforming growth factor-beta and fibronectin, and lipid peroxidation induced by high glucose in cultured mesangial cells. Ha H, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1457–62

Hyperpolarization of isolated capillaries from guinea-pig heart induced by K+ channel openers and glucose deprivation. Langheinrich U, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):397–408

Potassium channel dysfunction in hypothalamic glucose-receptive neurones of obese Zucker rats. Rowe IC, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):365–77

Alterations in venous endothelial cell and smooth muscle cell relaxation induced by high glucose concentrations can be prevented by aminoguanidine. Davies MG, et al. **J Surg Res** 1996 Jul 1;63(2):474–9

Suramin inhibits glucose-induced Ca2+ response in single rat pancreatic beta cells. Kuromi H, et al. **Jpn J Pharmacol** 1997 Feb;73(2):179–82

Glucose stimulation of insulin release without an increase in cytosolic free Ca2+ concentration: a possible involvement of GTP. Komatsu M, et al. **Jpn J Physiol** 1997;47 Suppl 1:S22–4

The effect of glucose and other sugars on the efferent activity of the sympathetic nerves innervating the fatty tissue. Niijima A. **Jpn J Physiol** 1997;47 Suppl 1:S40–2

Radical production and degranulation in pancreatic islets induced by glucose. Sakurai T, et al. **Jpn J Physiol** 1997; 47 Suppl 1:S15

Effect of glucose, pyruvate, and insulin on type 1 angiotensin II receptor expression in SV40-immortalized rabbit proximal tubule epithelial cells. Becker BN, et al. **Kidney Int** 1997 Jul;52(1):87–92

Pathways through which glucose induces a rise in [Ca2+]i of polymorphonuclear leukocytes of rats. Demerdash TM, et al. **Kidney Int** 1996 Dec;50(6):2032–40

Phosphorylation of cAMP responsive element binding protein after treatment of mesangial cells with high glucose plus TGF beta or PMA. Kreisberg JI, et al. **Kidney Int** 1996 Sep;50(3):805–10

Effect of glucose and pyruvate in acidic and non-acidic peritoneal dialysis fluids on leukocytes cell functions. Mahiout A, et al. **Kidney Int** 1997 Mar;51(3):860–7

Effect of glucose on the function of the calcitriol receptor and vitamin D metabolism. Patel SR, et al. **Kidney Int** 1997 Jul;52(1):79–86

Induction of TGF-beta 1 synthesis in D-glucose primed human proximal tubular cells by IL-1 beta and TNF alpha. Phillips AO, et al. **Kidney Int** 1996 Nov;50(5):1546–54

Mesangial cell actin disassembly in high glucose mediated by protein kinase C and the polyol pathway. Zhou X, et al. **Kidney Int** 1997 Jun;51(6):1797–808

Skin blood flow after transdermal S-nitrosothio-acetylglucose [letter] Khan F, et al. **Lancet** 1997 Aug 9;350(9075):410–1

Increased production of PDGF by angiotensin and high glucose in human vascular endothelium. Okuda Y, et al. **Life Sci** 1996;59(17):1455–61

A glucose-rich diet shortens longevity of mice. Mlekusch W, et al. **Mech Ageing Dev** 1996 Nov 29;92(1):43–51

Dissociated insulinotropic sensitivity to glucose and carbachol in high-fat diet-induced insulin resistance in C57BL/6J mice. Ahrén B, et al. **Metabolism** 1997 Jan; 46(1):97–106

Glucose loading induces DNA fragmentation in rat proximal tubular cells. Ishii N, et al. **Metabolism** 1996 Nov; 45(11):1348–53

Protective effect of D-alpha-tocopherol on the function of human mesangial cells exposed to high glucose concentrations. Tada H, et al. **Metabolism** 1997 Jul; 46(7):779–84

Intravenous glucose tolerance test-derived glucose effectiveness in bulimia nervosa. Taniguchi A, et al. **Metabolism** 1997 May;46(5):484–6

Early changes in plasma glucagon and growth hormone response to oral glucose in experimental hyperthyroidism. Tosi F, et al. **Metabolism** 1996 Aug;45(8):1029–33

Glucose-dependent, cAMP-mediated ATP efflux from Saccharomyces cerevisiae. Boyum R, et al. **Microbiology** 1997 Jun;143 (Pt 6):1901–8

Protein kinase Sck1 is involved in trehalase activation by glucose and nitrogen source in the fission yeast Schizosaccharomyces pombe. Soto T, et al. **Microbiology** 1997 Jul;143 (Pt 7):2457–63

High glucose reduces generation of plasmin activity by mesangial cells. Fisher EJ, et al. **Microvasc Res** 1997 Mar; 53(2):173–8

Regulated nuclear translocation of the Mig1 glucose repressor. De Vit MJ, et al. **Mol Biol Cell** 1997 Aug; 8(8):1603–18

High D-glucose does not affect binding of alpha-tocopherol to human erythrocytes. Bellizzi MC, et al. **Mol Cell Biochem** 1997 May;170(1-2):187–93

Differential effect of glucose deprivation on MAPK activation in drug sensitive human breast carcinoma MCF-7 and multidrug resistant MCF-7/ADR cells. Gupta AK, et al. **Mol Cell Biochem** 1997 May;170(1-2):23–30

Effect of elevated glucose concentrations on cellular lipid peroxidation and growth of cultured human kidney proximal tubule cells. Jain SK, et al. **Mol Cell Biochem** 1996 Sep 6;162(1):11–6

Two different repressors collaborate to restrict expression of the yeast glucose transporter genes HXT2 and HXT4 to low levels of glucose. Ozcan S, et al. **Mol Cell Biol** 1996 Oct;16(10):5536–45

A myristoylated pseudosubstrate peptide inhibitor of protein kinase C: effects on glucose- and carbachol-induced insulin secretion. Harris TE, et al. **Mol Cell Endocrinol** 1996 Aug 9;121(2):133–41

Glucose-stimulated expressed sequence tags from rat pancreatic islets. MacDonald MJ. **Mol Cell Endocrinol** 1996 Oct 30;123(2):199–204

Pancreatic islet B-cell individual variability rather than subpopulation heterogeneity. Mercan D, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1-2):163–71

Overexpression of glucagon-like peptide-1 receptor in an insulin-secreting cell line enhances glucose responsiveness. Montrose-Rafizadeh C, et al. **Mol Cell Endocrinol** 1997 Jun 20;130(1-2):109–17

Pituitary adenylate cyclase-activating peptide, carbachol, and glucose stimulate insulin release in the absence of an increase in intracellular Ca2+. Komatsu M, et al. **Mol Pharmacol** 1996 Oct;50(4):1047–54

The development of preimplantation mouse parthenogenones in vitro in absence of glucose: influence of the maternally inherited components. Mognetti B, et al. **Mol Reprod Dev** 1996 Apr;43(4):421–7

Influence of genetic background and media components on the development of mouse embryos in vitro. Scott L, et al. **Mol Reprod Dev** 1996 Mar;43(3):336–46

Glucose influence on germ tube production in Candida albicans. Vidotto V, et al. **Mycopathologia** 1996; 133(3):143–7

Effect of glucose and heparin on mesangial alpha 1(IV)COLL and MMP-2/TIMP-2 mRNA expression. Caenazzo C, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):443–8

Enalaprilat inhibits hydrogen peroxide production by murine mesangial cells exposed to high glucose concentrations. Ruiz-Muñoz LM, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):456–64

Effect of glucose and peripheral glucose regulation on memory in the elderly. Messier C, et al. **Neurobiol Aging** 1997 May-Jun;18(3):297–304

Memory modulation by post-training glucose or insulin remains evident at long retention intervals. Kopf SR, et al. **Neurobiol Learn Mem** 1996 Mar;65(2):189–91

Scopolamine- and morphine-induced deficits in water maze alternation: failure to attenuate with glucose. Means LW, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):167–75

Object recognition in mice: improvement of memory by glucose. Messier C. **Neurobiol Learn Mem** 1997 Mar; 67(2):172–5

Intraseptal infusions of muscimol impair spontaneous alternation performance: infusions of glucose into the hippocampus, but not the medial septum, reverse the deficit. Parent MB, et al. **Neurobiol Learn Mem** 1997 Jul; 68(1):75–85

Nitric oxide and antioxidant status in glucose and oxygen deprived neonatal and adult rat brain synaptosomes. Keelan J, et al. **Neurochem Res** 1996 Aug;21(8):923–7

Effect of glucose and lipids on intestinal absorption of sorbitol: role of gastric emptying. Beaugerie L, et al. **Neurogastroenterol Motil** 1996 Sep;8(3):235–9

The effects of glucose on nonmemory cognitive functioning in the elderly. Allen JB, et al. **Neuropsychologia** 1996 May; 34(5):459–65

Glucose-induced decrease in glutamate levels in ischemic human brain by in-vivo microdialysis. Kanthan R, et al. **Neurosci Lett** 1996 May 17;209(3):207–9

Effects of glutamate receptor agonists and antagonists on Ca2+ uptake in rat hippocampal slices lesioned by glucose deprivation or by kainate. Alici K, et al. **Neuroscience** 1997 Mar;77(1):97–109

Glucose represses the lactose-galactose regulon in Kluyveromyces lactis through a SNF1 and MIG1-dependent pathway that modulates galactokinase (GAL1) gene expression. Dong J, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3657–64

Responses of insulin to oral glucose and fructose loads in marginally copper-deficient rats fed starch or fructose. Fields M, et al. **Nutrition** 1996 Jul-Aug;12(7-8):524–8

Studies on the mechanisms by which gastrin releasing peptide potentiates glucose-induced insulin secretion from mouse

islets. Gregersen S, et al. **Pancreas** 1996 Jan;12(1):48–57
Eicosapentaenoic acid (C20:5) augments glucose-induced insulin secretion from beta-TC3 insulinoma cells. Konard RJ, et al. **Pancreas** 1996 Oct;13(3):253–8
Induction of a glucose-dependent insulin secretory response by the nonmetabolizable amino acid alpha-aminoisobutyric acid. McClenaghan N, et al. **Pancreas** 1997 Jan;14(1):65–70
Glycation and advanced glycation end-product formation with icodextrin and dextrose [see comments] Dawnay AB, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):52–8. Comment in: Perit Dial Int 1997 Jan-Feb;17(1):9–10.
Icodextrin's effects on peritoneal transport [see comments] Krediet RT, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):35–41 (34 ref.). Comment in: Perit Dial Int 1997 Jan-Feb;17(1):9–10.
How to measure ultrafiltration failure: 2.27% or 3.86% glucose? [editorial] Rippe B. **Perit Dial Int** 1997 Mar-Apr; 17(2):125–8
Adenine nucleotides and intracellular Ca2+ regulate a voltage-dependent and glucose-sensitive potassium channel in neurosecretory cells. Onetti CG, et al. **Pflugers Arch** 1996 May;432(1):144–54
Effects of glucose, forskolin and tolbutamide on membrane potential and insulin secretion in the insulin-secreting cell line INS-1. Ullrich S, et al. **Pflugers Arch** 1996 Aug; 432(4):630–6
Oral intake of sweetened or sweetened alcoholic beverages and open-field behavior. Nadal RA, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):739–43
Repaglinide preserves nutrient-stimulated biosynthetic activity in rat pancreatic islets. Viñambres C, et al. **Pharmacol Res** 1996 Jul-Aug;34(1-2):83–5
Saccharin increases the effectiveness of glucose in stimulating ingestion in rats but has little effect on negative feedback. Breslin PA, et al. **Physiol Behav** 1996 Aug;60(2):411–6
The effects of glucose or lipid infused intravenously or intragastrically on voluntary food intake in the rat. Burggraf KK, et al. **Physiol Behav** 1997 Jun;61(6):787–93
Conditioned insulin and blood sugar responses in humans in relation to binge eating. Overduin J, et al. **Physiol Behav** 1997 Apr;61(4):569–75
Blood glucose and subjective energy following cognitive demand. Owens DS, et al. **Physiol Behav** 1997 Sep; 62(3):471–8
Is fructose sweeter than glucose for rats? Ramirez I. **Physiol Behav** 1996 Nov;60(5):1299–306
Characteristics of glucose and maltose preloads that inhibit feeding in 12-day-old rats. Weller A, et al. **Physiol Behav** 1997 Jun;61(6):819–22
Sugar regulates mRNA abundance of H(+)-ATPase gene family members in tomato. Mito N, et al. **Plant Physiol** 1996 Nov;112(3):1229–36
Stunting syndrome in broilers: effect of glucose or maltose supplementation on digestive organs, intestinal disaccharidases, and some blood metabolites. Shapiro F, et al. **Poult Sci** 1997 Feb;76(2):369–80
Activation of mitogen-activating protein kinase by glucose is not required for insulin secretion. Khoo S, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5599–604
Insulin secretion is regulated by the glucose-dependent production of islet beta cell macrophage migration inhibitory factor. Waeber G, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4782–7
Modulation of glucose responsiveness of insulinoma beta-cells by graded overexpression of glucokinase. Wang H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4372–7
Regulation of insulin preRNA splicing by glucose. Wang J, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4360–5
Effect of maternal glucose infusion on brown adipose tissue and liver development in the neonatal lamb. Clarke L, et al. **Reprod Fertil Dev** 1996;8(7):1045–54
Modulation of the feeding response of lactating dairy cows to peripheral insulin administration with or without a glucose supply. Bareille N, et al. **Reprod Nutr Dev** 1996; 36(1):83–93
Effects of a 33 residue interleukin-1 beta peptide and the antioxidant PQQ on interleukin-1 beta-mediated inhibition of glucose-stimulated insulin release from cultured mouse pancreatic islets. McInerney MF, et al. **Res Commun Mol Pathol Pharmacol** 1996 Nov;94(2):115–28
Human red blood cell membrane potential and fluidity in glucose solutions. Zavodnik IB, et al. **Scand J Clin Lab Invest** 1997 Feb;57(1):59–63
Regional differences in the effect of mucosal glucose and amino acids on ion transport in normal and cholera toxin-stimulated porcine small intestine. Grøndahl ML, et al. **Scand J Gastroenterol** 1997 May;32(5):478–84
Effects of hypoxia on the ventral root motor-evoked potential in the in vitro spinal cord preparation. Ataka H, et al. **Spine** 1996 Sep 15;21(18):2095–100
High glucose concentrations dilate cerebral arteries and diminish myogenic tone through an endothelial mechanism. Cipolla MJ, et al. **Stroke** 1997 Feb;28(2):405–10; discussion 410–1
Depletion of glucose causes presynaptic inhibition of neuronal transmission in the rat dorsolateral septal nucleus. Akasu T, et al. **Synapse** 1996 Oct;24(2):125–34
Improved in-vitro quality of platelet concentrates stored in a dextrose-free synthetic medium. Farrugia A, et al. **Transfus Med** 1991 Mar;1(1):31–8
A clinical trial of red-cell concentrate prepared from blood collected in half-strength citrate anticoagulant. Murphy WG, et al. **Transfus Med** 1991 Mar;1(1):25–9
Serum-free medium and pyruvate improve survival and glucose responsiveness of islet beta cells in culture. Bottino R, et al. **Transplant Proc** 1997 Jun;29(4):1978
In vitro glucose sensitivity of cultured human and porcine islets. Brandhorst H, et al. **Transplant Proc** 1997 Jun; 29(4):1980–1
Effect of glucose introduction to the lumen during cold ischemia in rat small bowel. Kokudo Y, et al. **Transplant Proc** 1996 Oct;28(5):2626–7
Increased DNA fragmentation in isolated rat islets following 24 hour co-culture with cytokine transgene-bearing adenovirus is dose dependent, but does not reduce glucose-stimulated insulin secretion. Weber M, et al. **Transplant Proc** 1997 May;29(3):1728–9
Effect of energy substrates on the preservation outcome of hepatocytes and sinusoidal endothelial cells in an experimental hypoxia/reoxygenation model. Zeilinger K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):403–5
Dynamics of glucose-induced insulin release from mouse islets transplanted under the kidney capsule. Shi CL, et al. **Transplantation** 1996 Nov 15;62(9):1312–8
Effects of partial outlet obstruction on bladder-strip sensitivity to glucose deprivation: an in vitro study in the rat. Kwon HY, et al. **World J Urol** 1996;14 Suppl 1:S38–42
[Effect of glucose-insulin infusion on thallium-201 chloride tumor imaging] Nishiyama Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):274–5 (Eng. Abstr.) **(Jpn)**
[The effect of 2,4-dinitrophenol and glucose on the utilization of succinate, lactate, pyruvate and formate by Escherichia coli K12] Dyl'ovyi MV. **Ukr Biokhim Zh** 1996 Mar-Apr; 68(2):37–41 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

High glucose concentration induces the overexpression of transforming growth factor-beta through the activation of a platelet-derived growth factor loop in human mesangial cells. Di Paolo S, et al. **Am J Pathol** 1996 Dec; 149(6):2095–106
Glucose-fatty acid interactions in prepubertal and pubertal children: effects of lipid infusion. Arslanian S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E523–9
Glucose-induced oscillatory insulin secretion in perifused rat pancreatic islets and clonal beta-cells (HIT). Cunningham BA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E702–10
Glucose regulation of islet amyloid polypeptide gene expression in rat pancreatic islets. Gasa R, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E543–9
Impaired phosphoinositide metabolism in glucose-incompetent islets of neonatally streptozotocin-diabetic rats. Morin L, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E737–45
Glucose and pyruvate regulate cytokine-induced nitric oxide production by cardiac myocytes. Oddis CV, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1244–9
Glucose tolerance and insulin action in healty centenarians. Paolisso G, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E890–4
Hyperglycemia and impaired glucose tolerance in IGF binding protein-1 transgenic mice. Rajkumar K, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E565–71
Chronic desensitization of the glucose-dependent insulinotropic polypeptide receptor in diabetic rats. Tseng CC, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E661–6
Protein kinase CK2 down-regulates glucose-activated expression of the acetyl-CoA carboxylase gene. Zhang S, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):227–32
Identification of glucose-regulated genes in human mesangial cells by mRNA differential display. Holmes DI, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):179–84
Regulation of lipogenic enzyme expression by glucose in liver and adipose tissue: is glucose 6-phosphate the signalling metabolite? Foufelle F, et al. **Biochem Soc Trans** 1996 May; 24(2):372–8 (43 ref.)
Structure-function studies of the brain-type glucose transporter, GLUT3: alanine-scanning mutagenesis of putative transmembrane helix VIII and an investigation of the role of proline residues in transport catalysis. Seatter MJ, et al. **Biochemistry** 1997 May 27;36(21):6401–7
Respective roles of glucose and ketone bodies as substrates for cerebral energy metabolism in the suckling rat. Nehlig A. **Dev Neurosci** 1996;18(5-6):426–33
Interferon-gamma independently activates the MHC class I antigen processing pathway and diminishes glucose responsiveness in pancreatic beta-cell lines. Baldeón ME, et al. **Diabetes** 1997 May;46(5):770–8
Glucose-induced insulin secretion in INS-1 cells depends on factors present in fetal calf serum and rat islet-conditioned medium. Sekine N, et al. **Diabetes** 1997 Sep;46(9):1424–33
A non-linear effect of ambient temperature on apparent glucose tolerance. Moses RG, et al. **Diabetes Res Clin Pract** 1997 Apr;36(1):35–40
Identification of genes regulated by glucose in a pancreatic beta-cell line by a new method for subtraction of mRNA. Yamato E, et al. **Diabetologia** 1996 Nov;39(11):1293–8
Kinetic characterization of individual hexose transporters of Saccharomyces cerevisiae and their relation to the triggering mechanisms of glucose repression. Reifenberger E, et al. **Eur J Biochem** 1997 Apr 15;245(2):324–33
Mechanisms of glucose toxicity. New hope for prevention of diabetic complications? Dutour A. **Eur J Endocrinol** 1997 Jan;136(1):39–40
KATP channels and glucose-induced insulin release: lessons from persistent hyperinsulinemic hypoglycemia of infancy. Vischer U. **Eur J Endocrinol** 1997 May;136(5):471–2
Glucose regulates protein interactions within the yeast SNF1 protein kinase complex. Jiang R, et al. **Genes Dev** 1996 Dec 15;10(24):3105–15
Evidence for a role of glucose-induced translocation of glucokinase in the control of hepatic glycogen synthesis. Agius L, et al. **J Biol Chem** 1996 Nov 29;271(48):30479–86
Apoptotic death in cerebral hemisphere cells is density dependent and modulated by transient oxygen and glucose deprivation. Yavin E, et al. **J Neurosci Res** 1997 Mar 1; 47(5):471–8
Oxygen deprivation but not a combination of oxygen, glucose, and serum deprivation induces DNA degradation in mouse cortical neurons in vitro: attenuation by transgenic overexpression of CuZn-superoxide dismutase. Copin JC, et al. **J Neurotrauma** 1996 May;13(5):233–44
Influence of glucose on murine metanephric development and proteoglycans: morphologic and biochemical studies. Kanwar YS, et al. **Lab Invest** 1997 May;76(5):671–81
Inhibitory effects of fatty acids on glucose-regulated B-cell function: association with increased islet triglyceride stores and altered effect of fatty acid oxidation on glucose metabolism. Zhou YP, et al. **Metabolism** 1996 Aug; 45(8):981–6
Two glucose sensing/signaling pathways stimulate glucose-induced inactivation of maltose permease in Saccharomyces. Jiang H, et al. **Mol Biol Cell** 1997 Jul; 8(7):1293–304
Glucose is essential for the initiation of fatty acid oxidation in ATP-depleted cultured ventricular myocytes. Tirosh R, et al. **Mol Cell Biochem** 1996 Sep 20;162(2):159–63
Multiple signalling pathways trigger the exquisite sensitivity of yeast gluconeogenic mRNAs to glucose. Yin Z, et al. **Mol Microbiol** 1996 May;20(4):751–64
Mechanisms of 1S,3R-ACPD-induced neuroprotection in rat hippocampal slices subjected to oxygen and glucose deprivation. Small DL, et al. **Neuropharmacology** 1996; 35(8):1037–48
Over-expression of HSP-70 protects astrocytes from combined oxygen-glucose deprivation. Papadopoulos MC, et al. **Neuroreport** 1996 Jan 31;7(2):429–32
Glucoprivation attenuates the hypophagia induced by epinephrine in mice. Villanueva I, et al. **Physiol Behav** 1996 Nov;60(5):1383–6
[Glucotoxicity at the level of glucose transporters: a toxicologic or physiological phenomenon?] Cerasi E, et al. **Journ Annu Diabetol Hotel Dieu** 1996;:111–9 **(Fre)**

SECRETION

[Between dogmatism and empiricism: discovery of glucose synthesis and secretion by the liver, by Claude Bernard (editorial)] Kahn A. **C R Acad Sci III** 1996 Sep; 319(9):753–61 **(Fre)**

THERAPEUTIC USE

Hypoglycemia manifested by sinus bradycardia: a report of three cases. Pollock G, et al. **Acad Emerg Med** 1996 Jul; 3(7):700–7
Inadvertent intra-articular injection of the wrong substance. Lanyon P, et al. **Br J Rheumatol** 1997 Jul;36(7):812–3
Glucose-insulin-potassium in acute myocardial infarction: the time has come for a large, prospective trial [editorial; comment] Apstein CS, et al. **Circulation** 1997 Aug 19; 96(4):1074–7. Comment on: Circulation 1997 Aug 19;96(4):1152–6.
Glucose-insulin-potassium therapy for treatment of acute myocardial infarction: an overview of randomized placebo-controlled trials [see comments] Fath-Ordoubadi F, et al. **Circulation** 1997 Aug 19;96(4):1152–6. Comment in: Circulation 1997 Aug 19;96(4):1074–7.
Randomized comparison of amphotericin B deoxycholate dissolved in dextrose or Intralipid for the treatment of AIDS-associated cryptococcal meningitis. Joly V, et al. **Clin Infect Dis** 1996 Sep;23(3):556–62
Endoscopic treatment of bleeding fundic varices with 50% glucose injection. Chang KY, et al. **Endoscopy** 1996 May; 28(4):398
Prolotherapy for chronic headache [letter] Abraham I. **Headache** 1997 Apr;37(4):256
Nutritional support after hepatic resection: a randomized prospective study. Nishizaki T, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):608–13
Glucose versus lactated Ringer's solution during pediatric cardiac surgery [see comments] Aouifi A, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):411–4. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):409–10.
Glucose-based oral rehydration therapy. Richardson CR. **J Fam Pract** 1996 Oct;43(4):344–5
A controlled trial comparing the efficacy of rice-based and hypotonic glucose oral rehydration solutions in infants and young children with gastroenteritis. Wall CR, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):24–8
Metabolic control and renal dysfunction in type I glycogen storage disease. Wolfsdorf JI, et al. **J Inherit Metab Dis** 1997 Aug;20(4):559–68
Acid-induced gastric damage in rats is aggravated by

starvation and prevented by several nutrients. Hung CR, et al. **J Nutr** 1997 Apr;127(4):630–6

Effects of succinic acid dimethyl ester infusion on metabolic, hormonal, and enzymatic variables in starved rats. Ladriere L, et al. **JPEN J Parenter Enteral Nutr** 1996 Jul–Aug; 20(4):251–6

[Safety of 5% dextrose as distending medium during transcervical resection of endometrium] Feng L, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 May;31(5):302–4 (Eng. Abstr.) **(Chi)**

TOXICITY

Production of type IV collagen and 72-kDa gelatinase by human endothelial cells cultured in high glucose. Effects of a protein kinase C inhibitor, GF 109203X. Grigorova-Borsos AM, et al. **Biochem Cell Biol** 1996; 74(5):659–67

Effects of excess glucose on mammalian post-implantation embryos. Ellington SK. **Int J Dev Biol** 1997 Apr; 41(2):299–306 (55 ref.)

D-glucose-induced dysmorphogenesis of embryonic kidney. Kanwar YS, et al. **J Clin Invest** 1996 Dec 1;98(11):2478–88

Differentiation of glucose toxicity from beta cell exhaustion during the evolution of defective insulin gene expression in the pancreatic islet cell line, HIT-T15. Moran A, et al. **J Clin Invest** 1997 Feb 1;99(3):534–9

Biocompatibility of a 1.1% amino acid-containing peritoneal dialysis fluid compared to a 2.27% glucose-based peritoneal dialysis fluid. Brulez HF, et al. **Nephron** 1996; 74(1):26–32

Glucose toxicity alters growth hormone-induced potentiation of insulin secretion in isolated human fetal islets: a reversible effect. Lalić NM, et al. **Transplant Proc** 1997 Jun;29(4):2035–6

The effects of high glucose concentration on angiotensin II- or transforming growth factor-beta-induced DNA synthesis, hypertrophy and collagen synthesis in cultured rat mesangial cells. Choi KH, et al. **Yonsei Med J** 1996 Oct;37(5):302–11

[Glucotoxicity and insulin secretion. An excessively reductionistic formulation] Portha B, et al. **Journ Annu Diabetol Hotel Dieu** 1996;:121–31 (31 ref.) **(Fre)**

URINE see **GLYCOSURIA**

GLUCOSE, BLOOD see **BLOOD GLUCOSE**

GLUCOSE CLAMP TECHNIQUE

Insulin-stimulated amino acid utilization during glucose and amino acid clamps decreases with development. Wray-Cahen D, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E305–14

The euglycaemic hyperinsulinaemic clamp: an evaluation of current methodology. Morris AD, et al. **Clin Exp Pharmacol Physiol** 1997 Jul;24(7):513–8

Beta cell response to oral glimepiride administration during and following a hyperglycaemic clamp in NIDDM patients. van der Wal PS, et al. **Diabet Med** 1997 Jul; 14(7):556–63

Hyperglycemia affects cardiovascular autonomic nerve function in normal subjects. Yeap BB, et al. **Diabetes Care** 1996 Aug;19(8):880–2

A hyperinsulinaemic, sequentially eu- and hypoglycaemic clamp test to characterize autonomous insulin secretion in patients with insulinoma. Nauck MA, et al. **Eur J Clin Invest** 1997 Feb;27(2):109–15

[Cardiac performance during insulin clamp: its evaluation by bioimpedance measurement] Ferraro S, et al. **Cardiologia** 1997 Feb;42(2):189–94 (Eng. Abstr.) **(Ita)**

[Assessment of insulin resistance by hyperinsulinemic euglycemic clamp] Maegawa H. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:248–51 (12 ref.) **(Jpn)**

GLUCOSE CLAMPING see **GLUCOSE CLAMP TECHNIQUE**

GLUCOSE DEHYDROGENASES

BIOSYNTHESIS

Production, characterization, and reconstitution of recombinant quinoprotein glucose dehydrogenase (soluble type; EC 1.1.99.17) apoenzyme of Acinetobacter calcoaceticus. Olsthoorn AJ, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):42–8

A somatic reproductive organ enhancer complex activates expression in both the developing and the mature Drosophila reproductive tract. Keplinger BL, et al. **Dev Biol** 1996 Nov 25;180(1):311–23

CHEMISTRY

Ca2+ and its substitutes have two different binding sites and roles in soluble, quinoprotein (pyrroloquinoline-quinone-containing) glucose dehydrogenase. Olsthoorn AJ, et al. **Eur J Biochem** 1997 Jul 15;247(2):659–65

GENETICS

Identification and characterization of a Pantoea citrea gene encoding glucose dehydrogenase that is essential for causing pink disease of pineapple. Cha JS, et al. **Appl Environ Microbiol** 1997 Jan;63(1):71–6

Transposon induced mutation in Gluconobacter oxydans with special reference to its direct-glucose oxidation metabolism. Gupta A, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):181–8

Contrasting patterns of nucleotide sequence variation at the glucose dehydrogenase (Gld) locus in different populations of Drosophila melanogaster. Hamblin MT, et al. **Genetics** 1997 Apr;145(4):1053–62

The substitution of a single amino acid residue (Ser–116 --> Asp) alters NADP-containing glucose-fructose oxidoreductase of Zymomonas mobilis into a glucose dehydrogenase with dual coenzyme specificity. Wiegert T, et al. **J Biol Chem** 1997 May 16;272(20):13126–33

ISOLATION & PURIFICATION

Purification of a marine bacterial glucose dehydrogenase from Cytophaga marinoflava and its application for measurement of 1,5-anhydro-D-glucitol. Tsugawa W, et al. **Appl Biochem Biotechnol** 1996 Mar;56(3):301–10

Glucose dehydrogenase from the halophilic Archaeon Haloferax mediterranei: enzyme purification, characterisation and N-terminal sequence. Bonete MJ, et al. **FEBS Lett** 1996 Apr 1;383(3):227–9

METABOLISM

Carbohydrate metabolism in Thermoproteus tenax: in vivo utilization of the non-phosphorylative Entner-Doudoroff pathway and characterization of its first enzyme, glucose dehydrogenase. Siebers B, et al. **Arch Microbiol** 1997 Aug; 168(2):120–7

Ca2+ and its substitutes have two different binding sites and roles in soluble, quinoprotein (pyrroloquinoline-quinone-containing) glucose dehydrogenase. Olsthoorn AJ, et al. **Eur J Biochem** 1997 Jul 15;247(2):659–65

Glucose dehydrogenase from the halophilic Archaeon Haloferax mediterranei: enzyme purification, characterisation and N-terminal sequence. Bonete MJ, et al. **FEBS Lett** 1996 Apr 1;383(3):227–9

Transposon induced mutation in Gluconobacter oxydans with special reference to its direct-glucose oxidation metabolism. Gupta A, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):181–8

GLUCOSE-DEPENDENT INSULINOTROPIC PEPTIDE see **GASTRIC INHIBITORY POLYPEPTIDE**

GLUCOSE INTOLERANCE

see related
DIABETES MELLITUS
GLUCOSE TOLERANCE TEST

The Santa Barbara County Health Care Services program: birth weight change concomitant with screening for and treatment of glucose-intolerance of pregnancy: a potential cost-effective intervention? Jovanovic-Peterson L, et al. **Am J Perinatol** 1997 Apr;14(4):221–8

Impaired glucose tolerance in pregnancy—is it of consequence? Tan YY, et al. **Aust N Z J Obstet Gynaecol** 1996 Aug;36(3):248–55

Carbohydrate intolerance in pregnancy: incidence and neonatal outcomes. Rey E, et al. **Clin Invest Med** 1996 Dec;19(6):406–15

Incidence of diabetes mellitus in women following impaired glucose tolerance in pregnancy is lower than following impaired glucose tolerance in the non-pregnant state. Pettitt DJ, et al. **Diabetologia** 1996 Nov;39(11):1334–7

Reduced gastric inhibitory polypeptide but normal glucagon-like peptide 1 response to oral glucose in postmenopausal women with impaired glucose tolerance. Ahrén B, et al. **Eur J Endocrinol** 1997 Aug;137(2):127–31

Depression of dehydroepiandrosterone in Japanese diabetic men—comparison between non-insulin-dependent diabetes mellitus and impaired glucose tolerance. Yamauchi A, et al. **Eur J Endocrinol** 1996 Jul;135(1):101–4

The role of obesity and cardiovascular fitness in the impaired glucose tolerance of aging. Colman E, et al. **Exp Gerontol** 1995 Nov-Dec;30(6):571–80

The effect of age on glucose tolerance and plasma insulin level in hypertensive and normotensive subjects. Nakamura Y, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S23–6

Prevalence of undiagnosed non-insulin-dependent diabetes mellitus and impaired glucose tolerance in a cohort of older persons with hypertension. Johnson KC, et al. **J Am Geriatr Soc** 1997 Jun;45(6):695–700

The effect of a desogestrel-containing oral contraceptive on glucose tolerance and leptin concentrations in hyperandrogenic women. Nader S, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3074–7

Studies of the impact of a liver glucokinase promoter variant on glucose tolerance and insulin sensitivity index. Urhammer SA, et al. **J Clin Endocrinol Metab** 1997 Jun; 82(6):1786–9

Rehydration of two patients with secondary glucose intolerance by using rice-oral rehydration solution (R-ORS) [letter] Yurdakök K, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):509–10

Decreased glucose tolerance, not decreased insulin sensitivity, is a maturational abnormality in the male offspring of a parent with early coronary artery disease. Slyper AH, et al. **Metabolism** 1997 May;46(5):504–12

Smokeless nicotine administration is associated with hypertension but not with a deterioration in glucose tolerance in rats. Swislocki AL, et al. **Metabolism** 1997 Sep;46(9):1008–12

Time of day and glucose tolerance status affect serum short-chain fatty acid concentrations in humans. Wolever TM, et al. **Metabolism** 1997 Jul;46(7):805–11

[Impaired glucose tolerance—current concept and its classification] Kosaka K. **Nippon Rinsho** 1996 Oct; 54(10):2629–35 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Worsening factors for the progression of impaired glucose tolerance to diabetes mellitus learning from prospective studies] Kosaka K. **Nippon Rinsho** 1996 Oct;54(10):2725–32 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Mild glucose intolerance in the elderly] Oba K, et al. **Nippon Rinsho** 1996 Oct;54(10):2773–8 (23 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Plasma neuropeptide Y in impaired glucose tolerance. Ahrén B, et al. **Acta Diabetol** 1996 Dec;33(4):295–7

A higher proinsulin response to glucose loading predicts deteriorating fasting plasma glucose and worsening to diabetes in subjects with impaired glucose tolerance [published erratum appears in Diabet Med 1996 Aug;13(8):775] Inoue I, et al. **Diabet Med** 1996 Apr; 13(4):330–6

Insulin response to oral glucose load is consistently decreased in established non-insulin-dependent diabetes mellitus: the usefulness of decreased early insulin response as a predictor of non-insulin-dependent diabetes mellitus. Kosaka K, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S109–19

Abnormal antioxidant status in impaired glucose tolerance and non-insulin-dependent diabetes mellitus. Vijayalingam S, et al. **Diabet Med** 1996 Aug;13(8):715–9

Sex hormone-binding globulin and glucose tolerance in postmenopausal women. The Rancho Bernardo Study. Goodman-Gruen D, et al. **Diabetes Care** 1997 Apr; 20(4):645–9

Pathogenetic mechanisms of impaired glucose tolerance and type II diabetes in African-Americans. The significance of insulin secretion, insulin sensitivity, and glucose effectiveness. Osei K, et al. **Diabetes Care** 1997 Mar; 20(3):396–404

Decreased serum 1,5-anhydroglucitol in nondiabetic subjects with a family history of NIDDM. Tsukui S, et al. **Diabetes Care** 1996 Sep;19(9):940–4

Risk factors in obese women, with particular reference to visceral fat component. Lerário AC, et al. **Diabetes Metab** 1997 Feb;23(1):68–74

High glycosylated hemoglobin levels increase the risk of progression to diabetes mellitus in subjects with glucose intolerance. Yoshinaga H, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1–3):71–9

Total immunoreactive proinsulin, immunoreactive insulin and specific insulin in relation to conversion to NIDDM: the Mexico City Diabetes Study. Haffner SM, et al. **Diabetologia** 1997 Jul;40(7):830–7

Hyperglycemia decreases dehydroepiandrosterone in Japanese male with impaired glucose tolerance and low insulin response. Yamauchi A, et al. **Endocr J** 1996 Jun; 43(3):285–90

Serum leptin in subjects with impaired glucose tolerance in relation to insulin sensitivity and first-phase insulin response. Turpeinen AK, et al. **Int J Obes Relat Metab Disord** 1997 Apr;21(4):284–7

Relationship between plasma glucose levels in glucose-intolerant women and newborn macrosomia. Verma A, et al. **J Matern Fetal Med** 1997 May-Jun; 6(3):187–93

Effects of dietary fat modification on fibrinogen, factor VII, and plasminogen activator inhibitor-1 activity in subjects with impaired glucose tolerance. Niskanen L, et al. **Metabolism** 1997 Jun;46(6):666–72

Are the increased Lp(a) levels in hemodialysis patients related to glucose intolerance and hemodialysis duration? [letter] Elisaf M, et al. **Nephron** 1996;74(3):623–4

Glucose intolerance and gallstone disease in Japanese men [letter] Kono S. **Scand J Gastroenterol** 1995 Dec; 30(12):1228

[Adrenal steroids in patients with breast cancer and in women with age-related impaired glucose tolerance] Odin VI, et al. **Vopr Onkol** 1996;42(4):22–6 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Can glucose intolerance and/or diabetes be predicted in patients treated with rhGH? Hokken-Koelega AC. **Br J Clin Pract Symp Suppl** 1996 Aug;85:56–8

[Glucose intolerance after percutaneous ethanol injection therapy (PEI) in liver cirrhosis patients with hepatocellular carcinoma] Tamano M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):90–5 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Impaired glucose tolerance and its co-variates among 2079 non-diabetic elderly subjects. Ten-year mortality and morbidity in the CASTEL study. CArdiovascular STudy

in the ELderly. Casiglia E, et al. **Acta Diabetol** 1996 Dec; 33(4):284–90

Glucose intolerance in cystic fibrosis. Lanng S. **Dan Med Bull** 1997 Feb;44(1):23–39 (164 ref.)

Predictors of progression from impaired glucose tolerance to NIDDM: an analysis of six prospective studies. Edelstein SL, et al. **Diabetes** 1997 Apr;46(4):701–10

Characteristics of non–insulin–dependent diabetes mellitus in elderly men: effect modification by family history. Boer JM, et al. **Int J Epidemiol** 1996 Apr;25(2):394–402

Chlorpromazine induced diabetes mellitus [letter; comment] Aruna, et al. **J Assoc Physicians India** 1995 Feb;43(2):146 . Comment on: J Assoc Physicians India 1994 Oct;42(10):795–804, 809.

Beta–cell dysfunction independent of obesity and glucose intolerance in the polycystic ovary syndrome. Dunaif A, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):942–7

Glucose tolerance, C–peptide response to glucagon, and thyroid and adrenal functions in relation to auto–antibodies in vitiligo [letter] Soliman AT, et al. **J Trop Pediatr** 1996 Feb;42(1):60

[The impaired glucose tolerance in the pathogenesis of dyslipidemia] Ikoue I, et al. **Nippon Rinsho** 1996 Oct; 54(10):2672–8 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Neurological disorders associated with impaired glucose tolerance] Suzuki K. **Nippon Rinsho** 1996 Oct;54(10):2704–8 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Impaired glucose tolerance and branch retinal vein obstruction] Yoshimoto H, et al. **Nippon Rinsho** 1996 Oct; 54(10):2786–9 (10 ref.) (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

An evaluation of the WHO criteria for abnormal glucose tolerance test during pregnancy in Nigerian women. Okonofua FE, et al. **Afr J Med Med Sci** 1995 Dec; 24(4):365–9

Insulin response to oral glucose load is consistently decreased in established non–insulin–dependent diabetes mellitus: the usefulness of decreased early insulin response as a predictor of non–insulin–dependent diabetes mellitus. Kosaka K, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S109–19

Haemoglobin A(1c) measurement for diabetes among subjects with a previous history of impaired glucose tolerance. Qiao Q, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):189–94

A standardised breakfast tolerance test in pregnancy: comparison with the 75 g oral glucose tolerance test in unselected mothers and in those with impaired glucose tolerance. Roberts RN, et al. **Ulster Med J** 1997 May; 66(1):18–23

DIET THERAPY

Effects of diet and exercise in preventing NIDDM in people with impaired glucose tolerance. The Da Qing IGT and Diabetes Study. Pan XR, et al. **Diabetes Care** 1997 Apr; 20(4):537–44

Effects of dietary fat modification on fibrinogen, factor VII, and plasminogen activator inhibitor–1 activity in subjects with impaired glucose tolerance. Niskanen L, et al. **Metabolism** 1997 Jun;46(6):666–72

[Diet therapy] Narimiya M, et al. **Nippon Rinsho** 1996 Oct; 54(10):2739–44 (9 ref.) (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Effects of troglitazone on insulin sensitivity. Henry RR. **Diabet Med** 1996 Sep;13(9 Suppl 6):S148–50 (9 ref.)

Effect of troglitazone on insulin sensitivity and pancreatic beta–cell function in women at high risk for NIDDM. Berkowitz K, et al. **Diabetes** 1996 Nov;45(11):1572–9

Impaired glucose tolerance is normalized by treatment with the thiazolidinedione troglitazone [see comments] Antonucci T, et al. **Diabetes Care** 1997 Feb;20(2):188–93 . Comment in: Diabetes Care 1997 Aug;20(8):1340–1.

The effect of acarbose on insulin sensitivity in subjects with impaired glucose tolerance. Chiasson JL, et al. **Diabetes Care** 1996 Nov;19(11):1190–3

Is troglitazone a real indication for obese subjects with impaired glucose tolerance? [letter; comment] Yoshioka K, et al. **Diabetes Care** 1997 Aug;20(8):1340–1. Comment on: Diabetes Care 1997 Feb;20(2):188–93.

Effect of acarbose on glucose intolerance in patients with non–insulin–dependent diabetes mellitus. Noda K, et al. **Diabetes Res Clin Pract** 1997 Aug;37(2):129–36

Glucose tolerance and mortality, including a substudy of tolbutamide treatment. Knowler WC, et al. **Diabetologia** 1997 Jun;40(6):680–6

Short–term effects of octreotide on glucose tolerance in patients with acromegaly. Sato K, et al. **Endocr J** 1995 Dec;42(6):739–45

Treatment with the oral antidiabetic agent troglitazone improves beta cell responses to glucose in subjects with impaired glucose tolerance. Cavaghan MK, et al. **J Clin Invest** 1997 Aug 1;100(3):530–7

[Drug therapy in subjects with impaired glucose tolerance] Kawamori R, et al. **Nippon Rinsho** 1996 Oct;54(10):2750–3 (11 ref.) (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Carbohydrate intolerance after acute gastroenteritis—a disappearing problem in Polish children. Szajewska H, et al. **Acta Paediatr** 1997 Apr;86(4):347–50

Diabetes mellitus, impaired glucose tolerance, and hyperinsulinemia in an elderly population. The Rotterdam Study. Stolk RP, et al. **Am J Epidemiol** 1997 Jan 1; 145(1):24–32

Carbohydrate intolerance in pregnancy: incidence and neonatal outcomes. Rey E, et al. **Clin Invest Med** 1996 Dec;19(6):406–15

The negative association between traditional physical activities and the prevalence of glucose intolerance in Alaska Natives. Adler AI, et al. **Diabet Med** 1996 Jun; 13(6):555–60

Proinsulin levels predict the development of non–insulin–dependent diabetes mellitus (NIDDM) in Japanese–American men. Kahn SE, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S63–6

Impaired glucose tolerance in Pima Indians. Lillioja S. **Diabet Med** 1996 Sep;13(9 Suppl 6):S127–32 (15 ref.)

Prevalence of glucose intolerance in urban and rural communities in Saudi Arabia. Al–Nuaim AR. **Diabet Med** 1997 Jul;14(7):595–602

Study of the prevalence of diabetes mellitus in adults in the Shougang Corporation in Beijing. Pan CY, et al. **Diabet Med** 1996 Jul;13(7):663–8

Effect of socioeconomic risk factors on the difference in prevalence of diabetes between rural and urban populations in Bangladesh. abu Sayeed M, et al. **Diabetes Care** 1997 Apr;20(4):551–5

A population–based study of the prevalence of diabetes and impaired glucose tolerance in adults in northern Sudan. Elbagir MN, et al. **Diabetes Care** 1996 Oct;19(10):1126–8

Abnormal glucose tolerance and other coronary heart disease risk factors in an isolated aboriginal community in central Australia. Gault A, et al. **Diabetes Care** 1996 Nov; 19(11):1269–73

The prevalence of NIDDM and associated risk factors in native Canadians. Harris SB, et al. **Diabetes Care** 1997 Feb; 20(2):185–7

Androgen activity as a risk factor for impaired glucose tolerance in postmenopausal women. Larsson H, et al. **Diabetes Care** 1996 Dec;19(12):1399–403

The prevalence of diabetes in Rio de Janeiro, Brazil. The Cooperative Group for the Study of Diabetes Prevalence in Rio De Janeiro. Oliveira JE, et al. **Diabetes Care** 1996 Jun;19(6):663–6

Impaired glucose tolerance, diabetes, and cardiovascular disease risk factor profiles in the elderly. The Honolulu Heart Program. Rodriguez BL, et al. **Diabetes Care** 1996 Jun;19(6):587–90

Gestational diabetes is a herald of NIDDM in Navajo women. High rate of abnormal glucose tolerance after GDM. Steinhart JR, et al. **Diabetes Care** 1997 Jun; 20(6):943–7

Prevalence of diabetes and impaired glucose tolerance in Aragón, Spain. Tamayo–Marco B, et al. **Diabetes Care** 1997 Apr;20(4):534–6

Incidence of NIDDM and the natural history of IGT in Pacific and Indian Ocean populations. Dowse GK. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S45–50

Disturbances of glucose and lipid metabolism in first and second generation Japanese–Brazilians. Japanese–Brazilian Diabetes Study Group. Ferreira SR, et al. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S59–63

Prevalence of diabetes in a suburban population of Bangladesh. Sayeed MA, et al. **Diabetes Res Clin Pract** 1997 Jan;34(3):149–55

Decreased insulin action and insulin secretion predict the development of impaired glucose tolerance. Haffner SM, et al. **Diabetologia** 1996 Oct;39(10):1201–7

Total immunoreactive proinsulin, immunoreactive insulin and specific insulin in relation to conversion to NIDDM: the Mexico City Diabetes Study. Haffner SM, et al. **Diabetologia** 1997 Jul;40(7):830–7

Prevalence of NIDDM and impaired glucose tolerance in a rural and an urban population in Cameroon. Mbanya JC, et al. **Diabetologia** 1997 Jul;40(7):824–9

Rising prevalence of NIDDM in an urban population in India. Ramachandran A, et al. **Diabetologia** 1997 Feb; 40(2):232–7

Prevalence of abnormal glucose tolerance in Khon Kaen Province and validity of urine stick and fasting blood sugar as screening tools. Chaisiri K, et al. **J Med Assoc Thai** 1997 Jun;80(6):363–71

Impaired glucose tolerance and unidentified diabetes. Heine RJ, et al. **Postgrad Med J** 1996 Feb;72(844):67–71 (29 ref.)

[Prevalence of glucose intolerance, diabetes mellitus, and high serum insulin levels in a Japanese urban population] Terao A, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr; 44(4):283–91 (Eng. Abstr.) **(Jpn)**

[Prospective population survey of IGT in a Japanese community, Hisayama] Kiyohara Y, et al. **Nippon Rinsho** 1996 Oct;54(10):2755–60 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Epidemiology on impaired glucose tolerance] Tominaga M. **Nippon Rinsho** 1996 Oct;54(10):2643–8 (21 ref.) (Eng. Abstr.) **(Jpn)**

ETHNOLOGY

Body mass index, waist circumference, waist–hip ratio, and glucose intolerance in Chinese and Europid adults in Newcastle, UK. Unwin N, et al. **J Epidemiol Community Health** 1997 Apr;51(2):160–6

ETIOLOGY

Criteria for gestational diabetes [letter; comment] Ledyard R. **Am Fam Physician** 1997 Apr;55(5):1583–4. Comment on: Am Fam Physician 1996 May 1;53(6):2053–7, 2061–2.

Progression of normal glucose tolerance to impaired glucose tolerance or diabetes in the elderly. Hiltunen L, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):99–106

Non–insulin dependent diabetes mellitus: a phenomenon of ageing? Heine RJ. **Int J Epidemiol** 1991;20 Suppl 1:S18–24 (38 ref.)

Alimentary hyperglycemia in patients with subtotal gastrectomy is associated with decreased insulin secretion but not with insulin resistance. Yoshikawa T, et al. **Int Surg** 1996 Jan–Mar;81(1):32–5

[Pathogenesis and treatments of glucose intolerance with liver cirrhosis in men––lessons from the clinical cases of Fukuoka City Hospital, Department of Internal Medicine, Fukuoka, Japan] Ohashi M, et al. **Fukuoka Igaku Zasshi** 1996 Oct;87(10):222–5 (Eng. Abstr.) **(Jpn)**

[Pathogenesis of glucose intolerance in alcoholics] Ishii H, et al. **Nippon Rinsho** 1996 Oct;54(10):2733–8 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Hereditary background and natural history in glucose–intolerance group] Ito C. **Nippon Rinsho** 1996 Oct; 54(10):2636–42 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Glucose intolerance in chronic renal failure] Matsushita Y, et al. **Nippon Rinsho** 1996 Oct;54(10):2715–8 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Impaired glucose tolerance in liver and pancreas disease] Nagasaka Y, et al. **Nippon Rinsho** 1996 Oct;54(10):2720–4 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Diabetes secondary to endocrinolopathies] Suzuki S. **Nippon Rinsho** 1996 Oct;54(10):2709–14 (126 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

Maturity onset diabetes of the young (MODY). Fajans SS, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S90–5 (17 ref.)

A population association study of four candidate genes (hexokinase II, glucagon–like peptide–1 receptor, fatty acid binding protein–2, and apolipoprotein C–II) with type 2 diabetes and impaired glucose tolerance in Japanese subjects. Yagi T, et al. **Diabet Med** 1996 Oct;13(10):902–7

Absence of association between the Gly40––>Ser mutation in the human glucagon receptor and Japanese patients with non–insulin–dependent diabetes mellitus or impaired glucose tolerance. Odawara M, et al. **Hum Genet** 1996 Dec; 98(6):636–9

Hyper insulinism and decreased insulin sensitivity in nonobese healthy offspring of conjugal diabetic parents and individuals with IGT and NIDDM. Rao CA, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):139–44

Clarification of the Ins2 gene sequence: relevance to glucose intolerance in NON/Lt mice. Pearce RB, et al. **Mamm Genome** 1996 Feb;7(2):143–4

[Molecular biological approach to impaired glucose tolerance] Mori H, et al. **Nippon Rinsho** 1996 Oct; 54(10):2795–8 (21 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Low prevalence of islet autoantibodies in patients with gestational diabetes mellitus. Dozio N, et al. **Diabetes Care** 1997 Jan;20(1):81–3

METABOLISM

Glucose intolerance in cystic fibrosis. Lanng S. **Dan Med Bull** 1997 Feb;44(1):23–39 (164 ref.)

Abnormal myocardial kinetics of 123I–heptadecanoic acid in subjects with impaired glucose tolerance. Turpeinen AK, et al. **Diabetologia** 1997 May;40(5):541–9

The effects of monounsaturated–fat enriched diet and polyunsaturated–fat enriched diet on lipid and glucose metabolism in subjects with impaired glucose tolerance. Sarkkinen E, et al. **Eur J Clin Nutr** 1996 Sep;50(9):592–8

Endurance exercise training decreases capillary basement membrane width in older nondiabetic and diabetic adults. Williamson JR, et al. **J Appl Physiol** 1996 Mar;80(3):747–53

Glucose intolerance is associated with altered calcium homeostasis: a possible link between increased serum calcium concentration and cardiovascular disease mortality. Wareham NJ, et al. **Metabolism** 1997 Oct;46(10):1171–7

MORTALITY

Glucose tolerance and mortality, including a substudy of tolbutamide treatment. Knowler WC, et al. **Diabetologia** 1997 Jun;40(6):680–6

PATHOLOGY

Diabetic retinopathy assessed by fundus photography in Pima Indians with impaired glucose tolerance and NIDDM. Nagi DK, et al. **Diabet Med** 1997 Jun;14(6):449–56

Placental weight to birthweight ratio is increased in mild gestational glucose intolerance. Lao TT, et al. **Placenta** 1997 Mar–Apr;18(2–3):227–30

PHYSIOPATHOLOGY

Impaired glucose tolerance and mild hyperglycemia in sucrose–fed rats does not impair insulin secretion. Wilson

M, et al. **Acta Diabetol** 1996 Sep;33(3):211-5
The clinical implications of impaired glucose tolerance. Alberti KG. **Diabet Med** 1996 Nov;13(11):927-37 (124 ref.)
The potential for lifestyle change to influence the progression of impaired glucose tolerance to non-insulin-dependent diabetes mellitus. Bourn DM. **Diabet Med** 1996 Nov; 13(11):938-45 (55 ref.)
Insulin deficiency vs insulin resistance in NIDDM: concluding remarks by a 'biased' observer. Cerasi E. **Diabet Med** 1996 Sep;13(9 Suppl 6):S161-4 (45 ref.)
Peripheral somatic nerve function in relation to glucose tolerance in an elderly Caucasian population: the Hoorn study. de Neeling JN, et al. **Diabet Med** 1996 Nov; 13(11):960-6
A prospective study of health check examinees for the development of non-insulin-dependent diabetes mellitus: relationship of the incidence of diabetes with the initial insulinogenic index and degree of obesity. Kosaka K, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S120-6
Insulin secretion and insulin sensitivity in people with impaired glucose tolerance. Pimenta W, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S33-6
Natural history of impaired glucose tolerance: follow-up at Joslin Clinic. Warram JH, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S40-5
Insulin levels and the natural history of glucose intolerance in Nauruans. Dowse GK, et al. **Diabetes** 1996 Oct; 45(10):1367-72
Insulin sensitivity and abdominal obesity in African-American, Hispanic, and non-Hispanic white men and women. The Insulin Resistance and Atherosclerosis Study. Karter AJ, et al. **Diabetes** 1996 Nov;45(11):1547-55
The pituitary-gonadal axis and health in elderly men: a study of men born in 1913. Tibblin G, et al. **Diabetes** 1996 Nov; 45(11):1605-9
NIDDM, impaired glucose tolerance, and pulmonary function in older adults. The Rancho Bernardo Study. Barrett-Connor E, et al. **Diabetes Care** 1996 Dec; 19(12):1441-4
High-fat hypercaloric diet induces obesity, glucose intolerance and hyperlipidemia in normal adult male Wistar rat. Akiyama T, et al. **Diabetes Res Clin Pract** 1996 Mar; 31(1-3):27-35
Effect of overweight and obesity on glucose intolerance and dyslipidemia in Saudi Arabia, epidemiological study. Rahman Al-Nuaim A. **Diabetes Res Clin Pract** 1997 Jun; 36(3):181-91
Reduction in body weight helps to delay the onset of diabetes even in non-obese with strong family history of the disease. Viswanathan M, et al. **Diabetes Res Clin Pract** 1997 Mar; 35(2-3):107-12
Urinary albumin excretion rate is related to insulin resistance in normotensive subjects with impaired glucose tolerance. Wasada T, et al. **Diabetes Res Clin Pract** 1997 Jan; 34(3):157-62
Failure to adequately adapt reduced insulin sensitivity with increased insulin secretion in women with impaired glucose tolerance. Larsson H, et al. **Diabetologia** 1996 Sep; 39(9):1099-107
Alteration of visual function in impaired glucose tolerance. Karadeniz S, et al. **Eur J Ophthalmol** 1996 Jan-Mar; 6(1):59-62
Triphenyltin chloride induces glucose intolerance by the suppression of insulin release from hamster pancreatic beta-cells. Ogino K, et al. **Exp Clin Endocrinol Diabetes** 1996;104(5):409-11
Functional ability of elderly persons with diabetes or impaired glucose tolerance. Hiltunen L, et al. **Scand J Prim Health Care** 1996 Dec;14(4):229-37
[Coronary microvascular dysfunction in coronary artery disease associated with glucose intolerance] Nakashima H, et al. **J Cardiol** 1997 Aug;30(2):59-65 (Eng. Abstr.) **(Jpn)**
[Insulin release kinetics and insulin sensitivity in impaired glucose tolerance] Kikuchi M. **Nippon Rinsho** 1996 Oct; 54(10):2658-66 (44 ref.) (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

[Follow-up system within industrial corporations for patients with glucose intolerance] Atsumi Y. **Nippon Rinsho** 1996 Oct;54(10):2761-4 (3 ref.) **(Jpn)**
[Impaired glucose tolerance in the young] Isshiki G. **Nippon Rinsho** 1996 Oct;54(10):2766-72 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Screening of glucose intolerance with fasting blood samples] Shiba T. **Nippon Rinsho** 1996 Oct;54(10):2800-6 (15 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

Early lifestyle intervention in patients with non-insulin-dependent diabetes mellitus and impaired glucose tolerance. Uusitupa MI. **Ann Med** 1996 Oct; 28(5):445-9
Effects of diet and exercise in preventing NIDDM in people with impaired glucose tolerance. The Da Qing IGT and Diabetes Study. Pan XR, et al. **Diabetes Care** 1997 Apr; 20(4):537-44
[Management of impaired glucose tolerance: physical training therapy] Sato Y, et al. **Nippon Rinsho** 1996 Oct; 54(10):2745-9 (22 ref.) (Eng. Abstr.) **(Jpn)**

GLUCOSE OXIDASE

Characterization of immobilization of an enzyme in a modified Y zeolite matrix and its application to an amperometric glucose biosensor. Liu B, et al. **Anal Chem** 1997 Jul 1;69(13):2343-8
Immobilization of glucose oxidase with the blend of regenerated silk fibroin and poly(vinyl alcohol) and its application to a 1,1'-dimethylferrocene-mediating glucose sensor. Liu Y, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2-3):105-17

BIOSYNTHESIS

Selective isolation of Aspergillus niger mutants with enhanced glucose oxidase production. Gromada A, et al. **J Appl Microbiol** 1997 May;82(5):648-52

CHEMISTRY

Effects of protein glycosylation on catalysis: changes in hydrogen tunneling and enthalpy of activation in the glucose oxidase reaction [published erratum appears in Biochemistry 1997 Jun 3;36(22):6854] Kohen A, et al. **Biochemistry** 1997 Mar 4;36(9):2603-11

DIAGNOSTIC USE

Polymeric mercaptosilane-modified platinum electrodes for elimination of interferants in glucose biosensors. Jung SK, et al. **Anal Chem** 1996 Feb 15;68(4):591-6
An improved glucose-oxidase method for determining blood, C.S.F. and urine glucose levels. 1959 [classical article] Marks V. **Clin Chim Acta** 1996 Jul 15;251(1):19-24

METABOLISM

In vivo brain glucose measurements: differential normal pulse voltammetry with enzyme-modified carbon fiber microelectrodes. Netchiporouk LI, et al. **Anal Chem** 1996 Dec 15;68(24):4358-64
Molecular imprinting: synthesis of polymer particles with antibody-like binding characteristics for glucose oxidase. Burow M, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):419-22
Glucose oxidase-induced lysis of erythrocytes. Sen T, et al. **Indian J Exp Biol** 1995 Jan;33(1):75-6

PHARMACOLOGY

Reactive liposomes encapsulating a glucose oxidase-peroxidase system with antibacterial activity. Hill KJ, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):37-46

GLUCOSE OXIDOREDUCTASES see **GLUCOSE DEHYDROGENASES**

GLUCOSE-6-PHOSPHATASE

New insights into G6PD deficiency. Mason PJ. **Br J Haematol** 1996 Sep;94(4):585-91 (55 ref.)
Glucose-6-phosphatase structure, regulation, and function: an update. Foster JD, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):314-32 (135 ref.)

ANALYSIS

Glucose-6-phosphatase activity: a determinant of brain microsomal intactness. Middleditch C, et al. **Biochem Soc Trans** 1997 May;25(2):183S
Human fetal testis endoplasmic reticulum glucose-6-phosphatase enzyme protein. Burchell A, et al. **Biol Reprod** 1996 Aug;55(2):298-303
Quantitative assessment of primary cerium reaction product formed by glucose-6-phosphatase activity in a male rat liver: an image analysis study. Oehring H, et al. **Histochem Cell Biol** 1996 Oct;106(4):431-6
Ultrastructural localization of activity of phosphatases by low temperature incubation of unfixed cryostat sections. Song JY, et al. **Histochem Cell Biol** 1996 Sep;106(3):351-5

ANTAGONISTS & INHIBITORS

A hypothesis linking hypoglycemia, hyperuricemia, lactic acidemia, and reduced gluconeogenesis in alcoholics to inactivation of glucose-6-phosphatase activity by acetaldehyde. Brecher AS, et al. **Alcohol** 1996 Nov-Dec; 13(6):553-7
Chlorogenic acid and hydroxynitrobenzaldehyde: new inhibitors of hepatic glucose 6-phosphatase. Arion WJ, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):315-22
Inhibition of microsomal glucose-6-phosphatase induced by ferrylmyoglobin. Miura T, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jun;96(3):291-8

BIOSYNTHESIS

Alterations in specific activity of glucose-6-phosphatase in laboratory rats after leptospiral exposure followed by triiodothyronine administration. Dobrosielski-Vergona K. **Am J Vet Res** 1997 Feb;58(2):143-5
Endoplasmic reticulum enzyme systems in developing human fetal trachea. Conner CE, et al. **Biochem Soc Trans** 1996 May;24(2):241S
Yeast as a tool for the expression of mutant and wildtype glucose-6-phosphatase. Hinds CJ, et al. **Biochem Soc Trans** 1997 May;25(2):184S
Expression of constructs between the glucose-6-phosphatase promoter and a reporter gene in an insulinoma cell line: regulation by glucose, dibutyryl cAMP and dexamethasone. Schmoll D, et al. **Biochem Soc Trans** 1997 May;25(2):180S
Regulation of rat liver glucose-6-phosphatase gene expression in different nutritional and hormonal states: gene structure and 5'-flanking sequence. Argaud D, et al. **Diabetes** 1996 Nov;45(11):1563-71
Induction of hepatic glucose-6-phosphatase gene expression by lipid infusion [published erratum appears in Diabetes 1997 Mar;46(3):536] Massillon D, et al. **Diabetes** 1997 Jan; 46(1):153-7
A multicomponent insulin response sequence mediates a strong repression of mouse glucose-6-phosphatase gene transcription by insulin. Streeper RS, et al. **J Biol Chem** 1997 May 2;272(18):11698-701

CHEMISTRY

A new model for the membrane topology of glucose-6-phosphatase: the enzyme involved in von Gierke disease. Hemrika W, et al. **FEBS Lett** 1997 Jun 16; 409(3):317-9 (20 ref.)

DRUG EFFECTS

Effect of Ca(2+)-channel blockers, Ca(2+)-ionophore and increased pyrene excimer formation on the microsomal glucose-6-phosphatase. Gupta A, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):272-8

GENETICS

Insulin resistance and the transcription of the glucose-6-phosphatase gene in newborn dogs. Feng BC, et al. **Biochem Mol Med** 1997 Apr;60(2):134-41
Isolation and nucleotide sequence of canine glucose-6-phosphatase mRNA: identification of mutation in puppies with glycogen storage disease type Ia. Kishnani PS, et al. **Biochem Mol Med** 1997 Aug;61(2):168-77
The inheritance of a novel mutation in glycogen storage disease type Ia. Hinds CJ, et al. **Biochem Soc Trans** 1996 May;24(2):232S
Genetic analysis of the glucose-6-phosphatase mutation of type Ia glycogen storage disease in a Chinese family. Lee WJ, et al. **Clin Genet** 1996 Oct;50(4):206-11
Identification of a point mutation (G727T) in the glucose-6-phosphatase gene in Japanese patients with glycogen storage disease type Ia, and carrier screening in healthy volunteers. Okubo M, et al. **Clin Genet** 1997 Mar; 51(3):179-83
Regulation of rat liver glucose-6-phosphatase gene expression in different nutritional and hormonal states: gene structure and 5'-flanking sequence. Argaud D, et al. **Diabetes** 1996 Nov;45(11):1563-71
New knowledge regarding glucose-6 phosphatase gene and protein and their roles in the regulation of glucose metabolism. Mithieux G. **Eur J Endocrinol** 1997 Feb; 136(2):137-45 (66 ref.)
Stimulation of glucose-6-phosphatase gene expression by glucose and fructose-2,6-bisphosphate. Argaud D, et al. **J Biol Chem** 1997 May 9;272(19):12854-61
A multicomponent insulin response sequence mediates a strong repression of mouse glucose-6-phosphatase gene transcription by insulin. Streeper RS, et al. **J Biol Chem** 1997 May 2;272(18):11698-701
Tumor necrosis factor inhibits the transcriptional rate of glucose-6-phosphatase in vivo and in vitro. Metzger S, et al. **Metabolism** 1997 May;46(5):579-83
Expression and distribution of glucose-6-phosphatase catalytic subunit messenger RNA and its changes in the diabetic state. Shingu R, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):13-24

METABOLISM

Interleukin-6 secretion in mice is associated with reduced glucose-6-phosphatase and liver glycogen levels. Metzger S, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E262-7
Measurement and modeling of glucose-6-phosphatase in pancreatic islets. Sweet IR, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 1):E696-711
Evidence that the transit of glucose into liver microsomes is not required for functional glucose-6-phosphatase. Annabi B, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):808-13
The effect of novel detergents on hepatic microsomal glucose-6-phosphatase activity. Houston MP, et al. **Biochem Soc Trans** 1996 May;24(2):213S
Glucose-6-phosphatase in developing human oesophagus. McIntosh K, et al. **Biochem Soc Trans** 1996 May;24(2):243S
Glucose-6-phosphatase in rat pancreas. Watkins SL, et al. **Biochem Soc Trans** 1996 May;24(2):242S
INS-1 cells as a model for studying the role of pancreatic glucose-6-phosphatase in glucokinase dependent glucose-mediated insulin secretion. Watkins SL, et al. **Biochem Soc Trans** 1997 Feb;25(1):71S
Inhibition of the glucose-6-phosphatase system by N-bromoacetylethanolamine phosphate, a potential affinity label for auxiliary proteins. Foster JD, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):244-54
Insulin action and hepatic glucose cycling in Cushing's syndrome. Heaney AP, et al. **Clin Endocrinol (Oxf)** 1997

GLUCOSE-6-PHOSPHATASE

Jun;46(6):735-43

Hepatic glucose-6-phosphatase development in preterm and full-term guinea-pigs: comparison with rat and human development. Lyall H, et al. **Comp Biochem Physiol A Physiol** 1997 Mar;116(3):261-5

Detached retina affects morphologic and biochemical changes in the retina adjacent to bullous retinal detachment in rabbits. Honda O, et al. **Curr Eye Res** 1997 Jan; 16(1):56-63

Depression of liver microsomal glucose 6-phosphatase activity in carbon tetrachloride-poisoned rats. Potential synergistic effects of lipid peroxidation and of covalent binding of haloalkane-derived free radicals to cellular components in the process. González Padrón A, et al. **Free Radic Biol Med** 1996;21(1):81-7

The in vivo regulation of liver and kidney glucose-6-phosphatase by dexamethasone. Voice MW, et al. **Horm Metab Res** 1997 Mar;29(3):97-100

Adenovirus-mediated expression of the catalytic subunit of glucose-6-phosphatase in INS-1 cells. Effects on glucose cycling, glucose usage, and insulin secretion. Trinh K, et al. **J Biol Chem** 1997 Oct 3;272(40):24837-42

Differential time course of liver and kidney glucose-6 phosphatase activity during long-term fasting in rat correlates with differential time course of messenger RNA level. Minassian C, et al. **Mol Cell Biochem** 1996 Feb 9; 155(1):37-41

Low levels of glucose-6-phosphate hydrolysis in the sarcoplasmic reticulum of skeletal muscle: involvement of glucose-6-phosphatase. Gamberucci A, et al. **Mol Membr Biol** 1996 Apr-Jun;13(2):103-8

The interaction among glucose transport, hexokinase, and glucose-6-phosphatase with respect to 3H-2-deoxyglucose retention in murine tumor models. Nelson CA, et al. **Nucl Med Biol** 1996 May;23(4):533-41

Role of glucokinase and glucose-6 phosphatase in the nutritional regulation of endogenous glucose production. Mithieux G. **Reprod Nutr Dev** 1996;36(4):357-62 (23 ref.)

PHYSIOLOGY

New knowledge regarding glucose-6 phosphatase gene and protein and their roles in the regulation of glucose metabolism. Mithieux G. **Eur J Endocrinol** 1997 Feb; 136(2):137-45 (66 ref.)

GLUCOSE-6-PHOSPHATASE DEFICIENCY see **GLYCOGEN STORAGE DISEASE TYPE I**

GLUCOSE-6-PHOSPHATE

ANALOGS & DERIVATIVES

Serotonin decreases cytoskeletal and cytosolic glycolytic enzymes and the levels of ATP and glucose 1,6-bisphosphate in skin, which is prevented by the calmodulin antagonists thioridazine and clotrimazole. Ashkenazy-Shahar M, et al. **Biochem Mol Med** 1997 Apr; 60(2):187-93

Effect of insulin-induced hypoglycemia on cytoskeleton-bound and cytosolic phosphofructokinase and the levels of glucose 1,6-bisphosphate in rat brain. Magen A, et al. **Biochem Mol Med** 1995 Dec;56(2):94-8

Calmodulin antagonists decrease glucose 1,6-bisphosphate, fructose 1,6-bisphosphate, ATP and viability of melanoma cells. Glass-Marmor L, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):265-71

Tumor 31P NMR pH measurements in vivo: a comparison of inorganic phosphate and intracellular 2-deoxyglucose-6-phosphate as pHnmr indicators in murine radiation-induced fibrosarcoma-1. Soto GE, et al. **Magn Reson Med** 1996 Nov;36(5):698-704

Dephosphorylation of 2-deoxyglucose 6-phosphate and 2-deoxyglucose export from cultured astrocytes. Forsyth RJ, et al. **Neurochem Int** 1996 Mar;28(3):243-50

[Comparison of the number of parameters using nonlinear iteration methods for compartment model analysis with 18F-FDG brain PET] Taguchi A, et al. **Kaku Igaku** 1997 Jan;34(1):25-34 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Sampling tube device for monitoring intracellular metabolite dynamics. Weuster-Botz D. **Anal Biochem** 1997 Mar 15; 246(2):225-33

GENETICS

Molecular heterogeneity of glucose-6-phosphate dehydrogenase (G6PD) variants in Italy. di Montemuros FM, et al. **Haematologica** 1997 Jul-Aug;82(4):440-5

METABOLISM

Irreversible metabolic transitions: the glucose 6-phosphate metabolism in yeast cell-free extracts. Coevoet MA, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):162-6

Glucose-induced glycogenesis in the liver involves the glucose-6-phosphate-dependent dephosphorylation of glycogen synthase. Cadefau J, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):745-50

Induction of fatty acid synthase and S14 gene expression by glucose, xylitol and dihydroxyacetone in cultured rat hepatocytes is closely correlated with glucose 6-phosphate concentrations. Mourrieras F, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):345-9

Reaction of rabbit skeletal myosin with D-glucose 6-phosphate. Avigad G, et al. **Biochem Mol Biol Int** 1996 Oct;40(2):273-84

Bridging the gap between glucose phosphorylation and glycogen synthesis in the liver. Guinovart JJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):157-60 (21 ref.)

Glycation of insulin by phosphorylated and nonphosphorylated reducing sugars. O'Harte FP, et al. **Biochem Soc Trans** 1997 Feb;25(1):150S

Teratogenic potential of free-radicals and hexokinase isoenzymes in the postimplantational "diabetic" rat conceptus. Sharma R, et al. **Biochem Soc Trans** 1996 May; 24(2):235S

Quantitative conversion of glucose into glucose 6-phosphate by intact Escherichia coli cells. van der Zee JR, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):225-30

The role of glucose 6-phosphate in the control of glycogen synthase. Villar-Palasí C, et al. **FASEB J** 1997 Jun; 11(7):544-58 (122 ref.)

Demonstration of a metabolically active glucose-6-phosphate pool in the lumen of liver microsomal vesicles. Bánhegyi G, et al. **J Biol Chem** 1997 May 23; 272(21):13584-90

Glucose-6-P control of glycogen synthase phosphorylation in yeast. Huang D, et al. **J Biol Chem** 1997 Sep 5; 272(36):22495-501

Regulation of Escherichia coli adenylate cyclase activity during hexose phosphate transport. Dumay V, et al. **Microbiology** 1996 Mar;142 (Pt 3):575-83

Low levels of glucose-6-phosphate hydrolysis in the sarcoplasmic reticulum of skeletal muscle: involvement of glucose-6-phosphatase. Gamberucci A, et al. **Mol Membr Biol** 1996 Apr-Jun;13(2):103-8

Catabolite repression by glucose 6-phosphate, gluconate and lactose in Escherichia coli. Hogema BM, et al. **Mol Microbiol** 1997 May;24(4):857-67

[Possible mechanisms of regulating glucose-6-phosphate dehydrogenase activity by an excess of substrate and coenzyme] Rogozhin VV. **Bioorg Khim** 1996 Aug; 22(8):575-9 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Desensitization to glucose 6-phosphate of phosphoenolpyruvate carboxylase from maize leaves by pyridoxal 5'-phosphate. Tovar-Méndez A, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):207-16

PHYSIOLOGY

Regulation of lipogenic enzyme expression by glucose in liver and adipose tissue: is glucose 6-phosphate the signalling metabolite? Foufelle F, et al. **Biochem Soc Trans** 1996 May; 24(2):372-8 (43 ref.)

Glucose 6-phosphate produced by glucokinase, but not hexokinase I, promotes the activation of hepatic glycogen synthase. Seoane J, et al. **J Biol Chem** 1996 Sep 27; 271(39):23756-60

GLUCOSE-6-PHOSPHATE DEHYDROGENASE see **GLUCOSEPHOSPHATE DEHYDROGENASE**

GLUCOSE PHOSPHOMUTASE see **PHOSPHOGLUCOMUTASE**

GLUCOSE-SODIUM TRANSPORT SYSTEM see **MONOSACCHARIDE TRANSPORT PROTEINS**

GLUCOSE SOLUTION, HYPERTONIC

ADMINISTRATION & DOSAGE

Reproductive outcome after treatment of ectopic pregnancy with local injection of hypertonic glucose. Hordnes K. **Acta Obstet Gynecol Scand** 1997 Aug;76(7):703-5

Calcium lactate interference in measuring creatinine in peritoneal dialysis fluids by the Jaffé kinetic method. Amici G, et al. **Adv Perit Dial** 1996;12:257-60

The role of gastric and postgastric sites in glucose-conditioned flavor preferences in rats. Drucker DB, et al. **Physiol Behav** 1997 Feb;61(2):351-8

[Maltose--an alternative in hypocaloric parenteral nutrition?] Hansen O, et al. **Zentralbl Chir** 1996;121(1):44-50 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Heat and pain sensations induced by arterial injection of low-osmolality contrast media: a comparison of patients' discomfort with ionic saline, nonionic glucose, and vasodilator nitrate. Himi K, et al. **Acad Radiol** 1996 Aug; 3 Suppl 2:S214-7

The choleretic effect of nonsteroidal anti-inflammatory drugs in total parenteral nutrition-associated cholestasis. Nussinovitch M, et al. **Isr J Med Sci** 1996 Dec; 32(12):1262-4

DIAGNOSTIC USE

The effect of long-term omeprazole on the glucose-hydrogen breath test in elderly patients. Hutchinson S, et al. **Age Ageing** 1997 Mar;26(2):87-9

PHARMACOLOGY

The effects of electrolyte, lactate, high-concentrated glucose, and dialysate on peritoneal mesothelial cells. Takeda K, et al. **Adv Perit Dial** 1996;12:11-4

Inhibitory avoidance impairments induced by intra-amygdala propranolol are reversed by glutamate but not glucose. Lennartz RC, et al. **Behav Neurosci** 1996 Oct;110(5):1033-9

Hypertonic glucose impairs glucose-induced increases in cytosol Ca2+ concentration and insulin secretion by HIT-T 15 cells. Sato N, et al. **Cell Calcium** 1996 Sep; 20(3):273-8

Effect of glucose and 2-deoxyglucose on hypothalamic GABA release in lactating rats. Grossman BM, et al. **Physiol Behav** 1997 Feb;61(2):169-73

THERAPEUTIC USE

Nutritional support after hepatic resection: a randomized prospective study. Nishizaki T, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):608-13

TOXICITY

Cytotoxicity, pH, and glucose degradation products in four different brands of PD fluid. Wieslander A, et al. **Adv Perit Dial** 1996;12:57-60

GLUCOSE TOLERANCE TEST

Lowering the threshold for the diagnosis of gestational diabetes. Rust OA, et al. **Am J Obstet Gynecol** 1996 Oct; 175(4 Pt 1):961-5

NONMEM improves group parameter estimation for the minimal model of glucose kinetics. De Gaetano A, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E932-7

Measurement of interstitial muscle glucose and lactate concentrations during an oral glucose tolerance test. Müller M, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1003-7

Gestational diabetes in Singaporean women: use of the glucose challenge test as a screening test and identification of high risk factors. Ray R, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):504-8

Do n-3 fatty acids improve glucose tolerance and lipemia in diabetics? Prince MJ, et al. **Curr Opin Lipidol** 1997 Feb; 8(1):7-11 (48 ref.)

Hyperleptinaemia: the missing link in the, metabolic syndrome? de Courten M, et al. **Diabet Med** 1997 Mar; 14(3):200-8

Peripheral somatic nerve function in relation to glucose tolerance in an elderly Caucasian population: the Hoorn study. de Neeling JN, et al. **Diabet Med** 1996 Nov; 13(11):960-6

Incidence of non-insulin-dependent diabetes mellitus and its risk factors in Japanese-Americans living in Hawaii and Los Angeles. Hara H, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S133-42

Insulin response to oral glucose load is consistently decreased in established non-insulin-dependent diabetes mellitus: the usefulness of decreased early insulin response as a predictor of non-insulin-dependent diabetes mellitus. Kosaka K, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S109-19

Impaired glucose tolerance in Pima Indians. Lillioja S. **Diabet Med** 1996 Sep;13(9 Suppl 6):S127-32 (15 ref.)

Amylin release during oral glucose tolerance test. Thomaseth K, et al. **Diabet Med** 1997 Jun;14 Suppl 2:S29-34

Natural history of impaired glucose tolerance: follow-up at Joslin Clinic. Warram JH, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S40-5

Epinephrine exerts opposite effects on peripheral glucose disposal and glucose-stimulated insulin secretion. A stable label intravenous glucose tolerance test minimal model study. Avogaro A, et al. **Diabetes** 1996 Oct;45(10):1373-8

Role of glucose effectiveness in the determination of glucose tolerance. Best JD, et al. **Diabetes Care** 1996 Sep; 19(9):1018-30 (102 ref.)

Waist circumference and waist-to-hip ratio are related to gestational glucose tolerance. Branchtein L, et al. **Diabetes Care** 1997 Apr;20(4):509-11

Effect of maternal diabetes on the pattern of selected insulin resistance syndrome parameters in normal glucose tolerant subjects of two Algonquin Indian communities in Quebec. Ekoé JM, et al. **Diabetes Care** 1996 Aug;19(8):822-6

Comparison of fasting and 2-hour glucose and HbA1c levels for diagnosing diabetes. Diagnostic criteria and performance revisited. Engelgau MM, et al. **Diabetes Care** 1997 May;20(5):785-91

Sex hormone-binding globulin and glucose tolerance in postmenopausal women. The Rancho Bernardo Study. Goodman-Gruen D, et al. **Diabetes Care** 1997 Apr; 20(4):645-9

A two-step strategy for identification of high-risk subjects for a clinical trial of prevention of NIDDM. Narayan KM, et al. **Diabetes Care** 1996 Sep;19(9):972-8

A non-linear effect of ambient temperature on apparent glucose tolerance. Moses RG, et al. **Diabetes Res Clin Pract** 1997 Apr;36(1):35-40

Vitamin D, glucose tolerance and insulinaemia in elderly men. Baynes KC, et al. **Diabetologia** 1997 Mar;40(3):344-7

Is the minimal model too minimal? [see comments] Caumo A, et al. **Diabetologia** 1996 Aug;39(8):997-1000. Comment in: Diabetologia 1997 Mar;40(3):362-3.

If the minimal model is too minimal, who suffers more: SG or SI? [letter; comment] Cobelli C, et al. **Diabetologia** 1997

Mar;40(3):362–3. Comment on: Diabetologia 1996 Aug;39(8):997–1000.

Comparison of National Diabetes Data Group and World Health Organization criteria for detecting gestational diabetes mellitus. Deerochanawong C, et al. **Diabetologia** 1996 Sep;39(9):1070–3

Cortisol, testosterone, and insulin action during intense swimming training in humans. Tyndall GL, et al. **Eur J Appl Physiol** 1996;73(1–2):61–5

Risk factors for fetal macrosomia: the importance of a positive oral glucose challenge test [see comments] Mello G, et al. **Eur J Endocrinol** 1997 Jul;137(1):27–33. Comment in: Eur J Endocrinol 1997 Jul;137(1):13–4.

Secretory protein 7B2 response to oral glucose loading and intravenous glucagon injection in patients with diabetes mellitus. Hisatomi A, et al. **Fukuoka Igaku Zasshi** 1996 Dec; 87(12):266–73

Insulin plasma levels in pregnant patients with impaired glucose tolerance: relationship with pregnancy outcome. Di Simone N, et al. **Gynecol Obstet Invest** 1996;42(1):16–20

Changes in nutritional pattern, insulin sensitivity and glucose tolerance during weight loss in obese patients from a Mediterranean area. Calle-Pascual AL, et al. **Horm Metab Res** 1995 Nov;27(11):499–502

Impact of overnight dexamethasone suppression on the adrenal androgen response to an oral glucose tolerance test in women with and without polycystic ovary syndrome. Buyalos RP, et al. **Hum Reprod** 1997 Jun;12(6):1138–41

No deterioration of glucose tolerance in weight cycling obese. Podar T, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):921–4

Prevalence of undiagnosed non-insulin-dependent diabetes mellitus and impaired glucose tolerance in a cohort of older persons with hypertension. Johnson KC, et al. **J Am Geriatr Soc** 1997 Jun;45(6):695–700

Glucagon-like peptide-1 can reverse the age-related decline in glucose tolerance in rats. Wang Y, et al. **J Clin Invest** 1997 Jun 15;99(12):2883–9

Acidosis effects on insulin response during glucose tolerance tests in Jersey cows. Bigner DR, et al. **J Dairy Sci** 1996 Dec;79(12):2182–8

Effects of cholinergic blockade by pirenzepine on insulin and glucose response to oral and intravenous glucose and to arginine load in obesity. Maccario M, et al. **J Endocrinol Invest** 1997 Jan;20(1):8–12

Oral glucose tolerance test: an inhibitory or a stimulatory input to growth hormone secretion? Valcavi R. **J Endocrinol Invest** 1996 Apr;19(4):253–5 (24 ref.)

Effects of soluble sodium alginate on cholesterol excretion and glucose tolerance in rats. Kimura Y, et al. **J Ethnopharmacol** 1996 Oct;54(1):47–54

Do low-risk prenatal patients really need a screening glucose challenge test? Helton MR, et al. **J Fam Pract** 1997 Jun; 44(6):556–61

Prevalence of abnormal glucose tolerance in Khon Kaen Province and validity of urine stick and fasting blood sugar as screening tools. Chaisiri K, et al. **J Med Assoc Thai** 1997 Jun;80(6):363–71

Biotin administration improves the impaired glucose tolerance of streptozotocin-induced diabetic Wistar rats. Zhang H, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Jun; 43(3):271–80

Normal values of first-phase insulin response to intravenous glucose in healthy Italian children and adolescents. The Prediabetes Study Group of the Italian Society for Pediatric Endocrinology and Diabetology (SIEDP). Lorini R, et al. **J Pediatr Endocrinol Metab** 1996 Mar–Apr; 9(2):163–7

Identification of impaired-glucose-tolerant animals from a Wistar inbred rat colony. Giridharan NV, et al. **Lab Anim Sci** 1997 Aug;47(4):428–31

Will glycosylated haemoglobin replace the oral glucose-tolerance test? Stewart M. **Lancet** 1997 Jan 25; 349(9047):223–4

Glucose tolerance testing and gestational diabetes [letter] [see comments] Moses RG, et al. **Med J Aust** 1997 Jan 20; 166(2):108–9. Comment in: Med J Aust 1997 Jul 7;167(1):50.

Glucose intolerance is associated with altered calcium homeostasis: a possible link between increased serum calcium concentration and cardiovascular disease mortality. Wareham NJ, et al. **Metabolism** 1997 Oct;46(10):1171–7

Plasma glucose screening of adults. **Nurse Pract** 1995 Aug; 20(8):88–91 (17 ref.)

Sex hormone responses in healthy men and male patients with chronic obstructive pulmonary disease during an oral glucose load. Hjalmarsen A, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):635–40

Intravenous glucose tolerance tests after porcine islet auto- and allotransplantation. Mellert J, et al. **Transplant Proc** 1997 Jun;29(4):2091–2

A standardised breakfast tolerance test in pregnancy: comparison with the 75 g oral glucose tolerance test in unselected mothers and in those with impaired glucose tolerance. Roberts RN, et al. **Ulster Med J** 1997 May; 66(1):18–23

[Glucose tolerance in pregnancy and amniotic fluid insulin in labor] Schäfer U, et al. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):414–7 (Eng. Abstr.) **(Ger)**

[Impaired glucose tolerance] Luft D, et al. **Internist (Berl)** 1997 Jun;38(6):610–2 **(Ger)**

[Diagnosis of diabetes mellitus: oral glucose tolerance test or HbA1C] Salomon F. **Schweiz Rundsch Med Prax** 1997 Apr 16;86(16):672 **(Ger)**

[Evaluation of glucose tolerance test in a group of young athletes with diabetes in the family] De Luca d'Alessandro E, et al. **Ann Ig** 1996 Jul–Aug;8(4):435–40 (Eng. Abstr.) **(Ita)**

[Blood glucose and insulin responses to oral glucose in hyperthyroidism] Pandolfi C, et al. **Minerva Endocrinol** 1996 Jun;21(2):63–5 (Eng. Abstr.) **(Ita)**

[Insulin secretion—assay method and its significance] Emoto M, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:418–22 (6 ref.) **(Jpn)**

[Glucose tolerance test] Nomiyama J, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:229–33 (10 ref.) **(Jpn)**

ECONOMICS

Gestational diabetes mellitus; resource utilization and costs of diagnosis and treatment. Moses R, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):184–6

METHODS

Use of a physiologic oral glucose solution for screening for impaired glucose tolerance and non-insulin-dependent diabetes mellitus. Phillips WT, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):842–6

Reproducibility of the first-phase insulin release in the intravenous glucose tolerance test. Chen CC, et al. **J Formos Med Assoc** 1996 Aug;95(8):639–41

Glucose load and renal sodium handling in mild essential hypertension on different sodium intakes. Inoue J, et al. **J Hum Hypertens** 1996 Aug;10(8):523–9

Is the 50-gram glucose screening test ever diagnostic? Bobrowski RA, et al. **J Matern Fetal Med** 1996 Nov–Dec; 5(6):317–20

Comparison of the 50 g capillary plasma glucose tolerance test with the 75 g venous plasma glucose tolerance test in pregnancy. Henry OA, et al. **J Obstet Gynaecol Res** 1996 Jun;22(3):215–9

Gestational diabetes ad nauseam [letter; comment] Davey R. **Med J Aust** 1997 Jul 7;167(1):50. Comment on: Med J Aust 1997 Jan 20;166(2):108–9.

Oral glucose tolerance test after high-dose i.v. biotin administration in normoglucemic hemodialysis patients. Koutsikos D, et al. **Ren Fail** 1996 Jan;18(1):131–7

[Quantitative analysis of glucose tolerance tests, responses using fuzzy inference] Arita S, et al. **Nippon Rinsho** 1996 Oct;54(10):2807–11 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Assessment of insulin resistance by minimal model analysis] Takahashi Y, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:252–5 (9 ref.) **(Jpn)**

STANDARDS

An evaluation of the WHO criteria for abnormal glucose tolerance test during pregnancy in Nigerian women. Okonofua FE, et al. **Afr J Med Med Sci** 1995 Dec; 24(4):365–9

Threshold value of glucose screening tests in pregnancy: could it be standardized for every population? Yalçin HR, et al. **Am J Perinatol** 1996 Jul;13(5):317–20

Evaluation of fasting plasma glucose as a screening test for diabetes mellitus in Singaporean adults [see comments] Lee CH, et al. **Diabet Med** 1997 Feb;14(2):119–22. Comment in: Diabet Med 1997 Feb;14(2):95–8.

Fasting plasma glucose as a screening test for diabetes mellitus [letter] Wiener K. **Diabet Med** 1997 Aug; 14(8):711–2

VETERINARY

Inter- and intraindividual variability of the response to intravenous glucose tolerance testing in cats. Sparkes AH, et al. **Am J Vet Res** 1996 Sep;57(9):1294–8

Effect of weight gain and subsequent weight loss on glucose tolerance and insulin response in healthy cats. Biourge V, et al. **J Vet Intern Med** 1997 Mar–Apr;11(2):86–91

Evaluation of a simplified intravenous glucose tolerance test and a reflectance glucose meter for use in cats. Link KR, et al. **Vet Rec** 1997 Mar 8;140(10):253–6

Modified oral glucose tolerance test as an indicator of small intestinal pathology in horses. Murphy D, et al. **Vet Rec** 1997 Mar 29;140(13):342–3

GLUCOSE TRANSPORT PROTEIN see **MONOSACCHARIDE TRANSPORT PROTEINS**

GLUCOSEPHOSPHATASE see **GLUCOSE-6-PHOSPHATASE**

GLUCOSEPHOSPHATASE DEFICIENCY see **GLYCOGEN STORAGE DISEASE TYPE I**

GLUCOSEPHOSPHATE DEHYDROGENASE

ANALYSIS

Development of oxygen insensitivity of the quantitative histochemical assay of G6PDH activity during colorectal carcinogenesis. Van Driel BE, et al. **J Pathol** 1997 Aug; 182(4):398–403

ANTAGONISTS & INHIBITORS

Role of glucose-6-phosphate dehydrogenase inhibition in the antiproliferative effects of dehydroepiandrosterone on human breast cancer cells. Di Monaco M, et al. **Br J Cancer** 1997;75(4):589–92

BIOSYNTHESIS

Enhanced expression of glucose-6-phosphate dehydrogenase in human cells sustaining oxidative stress. Ursini MV, et al. **Biochem J** 1997 May 1;323 (Pt 3):801–6

Administration of fish oil by gavage increases the activities of hexokinase, glucose-6-phosphate dehydrogenase, and citrate synthase in rat lymphoid organs. Miyasaka CK, et al. **Gen Pharmacol** 1996 Sep;27(6):991–4

Upregulation of glucose-6-phosphate dehydrogenase in response to hepatocellular oxidative stress: studies with diquat. Cramer CT, et al. **J Biochem Toxicol** 1995 Dec; 10(6):293–8

The correlation of membranous glycoprotein-gp-170, cytoplasmic glutathione and glucose-6-phosphate dehydrogenase levels with multidrug resistance in transitional cell carcinoma cell lines of the urinary tract. Yu DS, et al. **J Urol** 1997 Feb;157(2):727–31

BLOOD

Somatic-cell selection is a major determinant of the blood-cell phenotype in heterozygotes for glucose-6-phosphate dehydrogenase mutations causing severe enzyme deficiency. Filosa S, et al. **Am J Hum Genet** 1996 Oct;59(4):887–95

The role of the oxidative state of glutathione and glutathione-related enzymes in anemia of hemodialysis patients. Paşaoğlu H, et al. **Clin Biochem** 1996 Dec; 29(6):567–72

Glucose-6-phosphate dehydrogenase activity in erythrocytes from chronically copper-poisoned sheep. Sansinanea AS, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1996 Jul;114(3):197–200

Simultaneous automated determination of glucose 6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase activities in whole blood. Mosca A, et al. **Eur J Clin Chem Clin Biochem** 1996 May;34(5):431–8

Effect of alloxan induced mild insulin dependent diabetes mellitus on rat erythrocyte cytosolic dehydrogenases. Gupta DK, et al. **Indian J Exp Biol** 1996 Mar;34(3):262–3

Acute hemolysis related to consumption of fava beans: a case study and medical nutrition therapy approach. Hampl JS, et al. **J Am Diet Assoc** 1997 Feb;97(2):182–3

Henna intoxication [letter; comment] Ozsoylu S. **Lancet** 1996 Oct 26;348(9035):1173. Comment on: Lancet 1996 Sep 7;348(9028):658.

CHEMISTRY

Allosteric control of Zymomonas mobilis glucose-6-phosphate dehydrogenase by phosphoenolpyruvate. Scopes RK. **Biochem J** 1997 Sep 15; 326 (Pt 3):731–5

Determination of site-specific modifications of glucose-6-phosphate dehydrogenase by 4-hydroxy-2-nonenal using matrix assisted laser desorption time-of-flight mass spectrometry. Grace JM, et al. **Free Radic Res** 1996 Jul;25(1):23–9

CLASSIFICATION

Allozyme differentiation among nine populations of the corn borer (Ostrinia) in China. Wang R, et al. **Biochem Genet** 1995 Dec;33(11–12):413–20

DEFICIENCY see GLUCOSEPHOSPHATE DEHYDROGENASE DEFICIENCY

DRUG EFFECTS

Insulin-like effects of vanadate and selenate on the expression of glucose-6-phosphate dehydrogenase and fatty acid synthase in diabetic rats. Berg EA, et al. **Biochimie** 1995; 77(12):919–24

Metal-catalyzed inactivation of bovine glucose-6-phosphate dehydrogenase--role of thiols. Maier KL, et al. **FEBS Lett** 1996 Oct 28;396(1):95–8

GENETICS

Clinical, genetic, and biochemical features of G-6PD(West Virginia). Corey SJ, et al. **Am J Hematol** 1996 Sep; 53(1):35–6

Somatic-cell selection is a major determinant of the blood-cell phenotype in heterozygotes for glucose-6-phosphate dehydrogenase mutations causing severe enzyme deficiency. Filosa S, et al. **Am J Hum Genet** 1996 Oct;59(4):887–95

Polymorphisms in drug-metabolizing enzymes: what is their clinical relevance and why do they exist? [editorial; comment] Nebert DW. **Am J Hum Genet** 1997 Feb; 60(2):265–71 (35 ref.). Comment on: Am J Hum Genet 1997 Feb;60(2):284–95.

Strategies for hematopoietic stem cell gene therapy: insights from computer simulation studies. Abkowitz JL, et al. **Blood** 1997 May 1;89(9):3192–8

Molecular analysis of eight biochemically unique

glucose-6-phosphate dehydrogenase variants found in Japan. Hirono A, et al. **Blood** 1997 Jun 15;89(12):4624-7

Hematologically important mutations: glucose-6-phosphate dehydrogenase. Beutler E, et al. **Blood Cells Mol Dis** 1996; 22(1):49-56

Molecular genetics of glucose-6-phosphate dehydrogenase deficiency in Mexico. Medina MD, et al. **Blood Cells Mol Dis** 1997;23(1):88-94

G6PD: population genetics and clinical manifestations. Beutler E. **Blood Rev** 1996 Mar;10(1):45-52 (104 ref.)

Close linkage between RNR and GPD genes on the tammar wallaby (Macropus eugenii) X chromosome. McKenzie LM, et al. **Cytogenet Cell Genet** 1996;72(2-3):197-9

Sequence and gene content in 52 kb including and centromeric to the G6PD gene in Xq28. Zollo M, et al. **DNA Seq** 1995;6(1):1-11

High-level regulated expression of the human G6PD gene in transgenic mice. Corcoran CM, et al. **Gene** 1996 Sep 16;173(2):241-6

Historical selection, amino acid polymorphism and lineage-specific divergence at the G6pd locus in Drosophila melanogaster and D. simulans. Eanes WF, et al. **Genetics** 1996 Nov;144(3):1027-41

Methylation analysis of a marsupial X-linked CpG island by bisulfite genomic sequencing. Loebel DAF, et al. **Genome Res** 1996 Feb;6(2):114-23

Testis-specific expression of a functional retroposon encoding glucose-6-phosphate dehydrogenase in the mouse. Hendriksen PJ, et al. **Genomics** 1997 May 1; 41(3):350-9

Glucose-6-phosphate dehydrogenase deficiency mutations in Papua New Guinea. Wagner G, et al. **Hum Biol** 1996 Jun; 68(3):383-94

Human enzyme polymorphism in the Canary Islands. VII. G6PD Seattle in Canarians and North African Berbers. Cabrera VM, et al. **Hum Hered** 1996 Jul-Aug;46(4):197-200

G6PD NanKang (517 T-->C; 173 Phe-->Leu): a new Chinese G6PD variant associated with neonatal jaundice. Chen HL, et al. **Hum Hered** 1996 Jul-Aug;46(4):201-4

Long-range sequence analysis in Xq28: thirteen known and six candidate genes in 219.4 kb of high GC DNA between the RCP/GCP and G6PD loci. Chen EY, et al. **Hum Mol Genet** 1996 May;5(5):659-68

Independent origin of single and double mutations in the human glucose 6-phosphate dehydrogenase gene. Vulliamy T, et al. **Hum Mutat** 1996;8(4):311-8

Glucose-6-phosphate dehydrogenase Durham: a de novo mutation associated with chronic hemolytic anemia. Zimmerman SA, et al. **J Pediatr** 1997 Aug;131(2):284-7

Tumor necrosis factor alpha augments the expression of glucose-6-phosphate dehydrogenase in rat hepatic endothelial and Kupffer cells. Spolarics Z, et al. **Life Sci** 1997;60(8):565-71

Analysis of the intron-exon structure of the G6PD gene of the wallaroo (Macropus robustus) by polymerase chain reaction. Loebel DA, et al. **Mamm Genome** 1997 Feb; 8(2):146-7

Plasmodium falciparum glucose-6-phosphate dehydrogenase (G6PD)-the N-terminal portion is homologous to a predicted protein encoded near to G6PD in Haemophilus influenzae [letter] Scopes DA, et al. **Mol Microbiol** 1997 Feb;23(4):847-8

Transcriptional regulation of zwf, encoding glucose-6-phosphate dehydrogenase, from the cyanobacterium Nostoc punctiforme strain ATCC 29133. Summers ML, et al. **Mol Microbiol** 1996 Nov;22(3):473-80

A glucose-6-phosphate dehydrogenase (G6PD) splice site consensus sequence mutation associated with G6PD enzyme deficiency. Sanders S, et al. **Mutat Res** 1997 Mar 4;374(1):79-87

Modulation of glycerol and ethanol yields during alcoholic fermentation in Saccharomyces cerevisiae strains overexpressed or disrupted for GPD1 encoding glycerol 3-phosphate dehydrogenase. Michnick S, et al. **Yeast** 1997 Jul;13(9):783-93

ISOLATION & PURIFICATION

Glucose-6-phosphate dehydrogenase from the cyanobacterium, Anabaena sp. PCC 7120: purification and kinetics of redox modulation. Gleason FK. **Arch Biochem Biophys** 1996 Oct 15;334(2):277-83

Dipodascus magnusii (Saccharomycetes) contains multiple glucose-6-phosphate dehydrogenases with different NAD+/NADP+ dependencies. Králová B, et al. **Microbiologia** 1996 Mar;12(1):85-90

METABOLISM

Immobilized glucose-6-phosphate dehydrogenase as a substrate for solubilized epidermal growth factor receptor tyrosine kinase. A convenient microtiter plate assay system. Cheng CH, et al. **Appl Biochem Biotechnol** 1996 Feb; 56(2):155-67

Thermostability of yeast hexokinase and yeast glucose-6-phosphate dehydrogenase. Zaitzeva EA, et al. **Appl Biochem Biotechnol** 1996 Oct-Nov;61(1-2):67-74

Glucose-6-phosphate dehydrogenase from the cyanobacterium, Anabaena sp. PCC 7120: purification and kinetics of redox modulation. Gleason FK. **Arch Biochem Biophys** 1996 Oct 15;334(2):277-83

Posttranscriptional regulation of glucose-6-phosphate dehydrogenase by dietary polyunsaturated fat. Stabile LP, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):269-79

Interaction of ATP with erythroblast glucose-6-phosphate dehydrogenase. Ninfali P, et al. **Biochem Mol Biol Int** 1996 May;39(2):377-85

A role for glucose-6-phosphate dehydrogenase in short- and long-term regulation of photosynthetic and respiratory carbon and nitrogen metabolism in nitrogen-limited Chlamydomonas reinhardtii. Huppe HC, et al. **Biochem Soc Trans** 1996 Aug;24(3):767-70

Azotobacter vinelandii glucose 6-phosphate dehydrogenase properties of NAD- and NADP-linked reactions. Anderson BM, et al. **Biochim Biophys Acta** 1997 Jul 18; 1340(2):268-76

Kinetic and thermodynamic properties of two electrophoretically similar genetic variants of human erythrocyte glucose-6-phosphate dehydrogenase. Adediran SA. **Biochimie** 1996;78(3):165-70

Malic enzyme and glucose 6-phosphate dehydrogenase gene expression increases in rat liver cirrhogenesis. Sanz N, et al. **Br J Cancer** 1997;75(4):487-92

Glucose-6-phosphate dehydrogenase activity is higher in the olfactory bulb than in other brain areas. Ninfali P, et al. **Brain Res** 1997 Jan 2;744(1):138-42

Muscle expression of glucose-6-phosphate dehydrogenase deficiency in different variants. Ninfali P, et al. **Clin Genet** 1995 Nov;48(5):232-7

Evidence for channeling of intermediates in the oxidative pentose phosphate pathway by soybean and pea nodule extracts, yeast extracts, and purified yeast enzymes. Debnam PM, et al. **Eur J Biochem** 1997 Jun 1;246(2):283-90

Metal-catalyzed inactivation of bovine glucose-6-phosphate dehydrogenase--role of thiols. Maier KL, et al. **FEBS Lett** 1996 Oct 28;396(1):95-8

Presence of F420-dependent glucose-6-phosphate dehydrogenase in Mycobacterium and Nocardia species, but absence from Streptomyces and Corynebacterium species and methanogenic Archaea. Purwantini E, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):129-34

Glucose-6-phosphate dehydrogenase activity in spinach as measured by image analysis: a new approach for plant enzyme histochemistry. Crèvecoeur M, et al. **Histochem J** 1996 Jan;28(1):25-32

Changes in enzyme histochemical profiles of identified spinal motoneurons of the European eel, Anguilla anguilla, following cordotomy. De Heus RB, et al. **Histochem J** 1996 May;28(5):335-40

Regulation and properties of purified glucose-6-phosphate dehydrogenase from rat brain. Askar MA, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):512-8

Phospho-beta-glucosidase from Fusobacterium mortiferum: purification, cloning, and inactivation by 6-phosphoglucono-delta-lactone. Thompson J, et al. **J Bacteriol** 1997 Mar;179(5):1636-45

Single cell enzyme activity and proliferation in the growth plate: effects of growth hormone. Gevers EF, et al. **J Bone Miner Res** 1996 Aug;11(8):1103-11

Early responses to dynamic strain change and prostaglandins in bone-derived cells in culture. Zaman G, et al. **J Bone Miner Res** 1997 May;12(5):769-77

Uterine estradiol and progesterone receptor concentration, activities of certain antioxidant enzymes and dehydrogenases and histoarchitecture in relation to time of secretion of nidatory estrogen and high endometrial sensitivity in rat. Singh MM, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):215-24

Effects of folic acid deficiency in pregnant Wistar rats on the activities of D5-3 beta hydroxysteroid dehydrogenase and glucose-6 phosphate dehydrogenase in the ovaries of their litters. Uche-Nwachi EO, et al. **Kaibogaku Zasshi** 1997 Jun;72(3):195-8

In vivo effects of vanadate on hepatic glycogen metabolizing and lipogenic enzymes in insulin-dependent and insulin-resistant diabetic animals. Khandelwal RL, et al. **Mol Cell Biochem** 1995 Dec 6-20;153(1-2):87-94

[Possible mechanisms of regulating glucose-6-phosphate dehydrogenase activity by an excess of substrate and coenzyme] Rogozhin VV. **Bioorg Khim** 1996 Aug; 22(8):575-9 (Eng. Abstr.) **(Rus)**

GLUCOSEPHOSPHATE DEHYDROGENASE DEFICIENCY

New insights into G6PD deficiency. Mason PJ. **Br J Haematol** 1996 Sep;94(4):585-91 (55 ref.)

[Hemolytic anemia due to the dysfunction of the protection against oxidative attack] Fujii H. **Nippon Rinsho** 1996 Sep; 54(9):2467-72 (6 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Effect of glucose-6-phosphate dehydrogenase deficiency on reduced and oxidized glutathione and lipid peroxide levels in the blood of African-Americans [letter] Jain SK, et al. **Clin Chim Acta** 1996 Sep 30;253(1-2):181-3

Molecular characterization of erythrocyte glucose-6-phosphate dehydrogenase deficiency in Al-Ain District, United Arab Emirates. Bayoumi RA, et al. **Hum Hered** 1996 May-Jun;46(3):136-41

COMPLICATIONS

Henna (Lawsonia inermis Linn.) inducing haemolysis among G6PD-deficient newborns. A new clinical observation. Kandil HH, et al. **Ann Trop Paediatr** 1996 Dec;16(4):287-91

G6PD NanKang (517 T-->C; 173 Phe-->Leu): a new Chinese G6PD variant associated with neonatal jaundice. Chen HL, et al. **Hum Hered** 1996 Jul-Aug;46(4):201-4

Colchicine as a novel therapeutic agent in chronic bullous dermatosis of childhood. Banodkar DD, et al. **Int J Dermatol** 1997 Mar;36(3):213-6

Acute hemolysis related to consumption of fava beans: a case study and medical nutrition therapy approach. Hampl JS, et al. **J Am Diet Assoc** 1997 Feb;97(2):182-3

Blood glucose normalization-induced haemolysis in three adolescents with type 1 diabetes mellitus at onset and unknown G-6-PD deficiency. Vanelli M, et al. **J Pediatr Endocrinol Metab** 1996 Mar-Apr;9(2):193-6

Intravascular haemolysis after aluminium phosphide ingestion. Sood AK, et al. **J R Soc Med** 1997 Jan;90(1):47-8

Hemolysis after acetaminophen overdose in a patient with glucose-6-phosphate dehydrogenase deficiency. Wright RO, et al. **J Toxicol Clin Toxicol** 1996;34(6):731-4 (16 ref.)

Rhabdomyolysis and hemolysis associated with sickle cell trait and glucose-6-phosphate dehydrogenase deficiency. Kimmick G, et al. **South Med J** 1996 Nov;89(11):1097-8

Partial exchange transfusion prior to treating cerebral malaria in an African child with glucose-6-phosphate dehydrogenase deficiency [letter] Rahimy MC, et al. **Transfusion** 1997 Sep;37(9):984-5

Imported cerebral malaria complicated with glucose-6-phosphate dehydrogenase deficiency. Chadee DD, et al. **West Indian Med J** 1996 Sep;45(3):97-9

DIAGNOSIS

Photooxidant injury to glucose-6-phosphate dehydrogenase-deficient erythrocytes with bilirubin as the sensitizer--an in vitro study. Karthikeyan G, et al. **Acta Paediatr** 1997 Mar;86(3):321-2

Can severe neonatal jaundice be prevented by neonatal screening for glucose-6-phosphate dehydrogenase deficiency?--a review of evidence. Chuu WM, et al. **Acta Paediatr Sin** 1996 Sep-Oct;37(5):333-41 (66 ref.)

Erythrocyte glutathione determination in the diagnosis of glucose-6-phosphate dehydrogenase deficiency. Bozzi A, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):561-9

Comparison of commercial screening tests for glucose-6-phosphate dehydrogenase deficiency in the neonatal period. Kaplan M, et al. **Clin Chem** 1997 Jul; 43(7):1236-7

[Beta-thalassemia and glucose-6-phosphate dehydrogenase deficiency] Troitskaia OV, et al. **Klin Lab Diagn** 1996 Nov-Dec;(6):17-24 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

[Use of the NSAID ketoprofen lysine salt in glucose-6-phosphate dehydrogenase (G6PD) deficiency in inflammatory disease in children] Corda R, et al. **Pediatr Med Chir** 1996 Jul-Aug;18(4):391-4 (Eng. Abstr.) **(Ita)**

EPIDEMIOLOGY

The prevalence of hemoglobin S and glucose-6-phosphate dehydrogenase deficiency in Jordanian newborn. Talafih K, et al. **J Obstet Gynaecol Res** 1996 Oct;22(5):417-20

[Thalassemia and enzyme deficiencies in mentally retarded and autistic persons (letter)] Casado A, et al. **Sangre (Barc)** 1995 Dec;40(6):519-23 **(Spa)**

GENETICS

Somatic-cell selection is a major determinant of the blood-cell phenotype in heterozygotes for glucose-6-phosphate dehydrogenase mutations causing severe enzyme deficiency. Filosa S, et al. **Am J Hum Genet** 1996 Oct;59(4):887-95

Genetic heterogeneity of glucose-6-phosphate dehydrogenase deficiency in south-east Sicily. Cittadella R, et al. **Ann Hum Genet** 1997 May;61 (Pt 3):229-34

Molecular analysis of eight biochemically unique glucose-6-phosphate dehydrogenase variants found in Japan. Hirono A, et al. **Blood** 1997 Jun 15;89(12):4624-7

Molecular genetics of glucose-6-phosphate dehydrogenase deficiency in Mexico. Medina MD, et al. **Blood Cells Mol Dis** 1997;23(1):88-94

G6PD: population genetics and clinical manifestations. Beutler E. **Blood Rev** 1996 Mar;10(1):45-52 (104 ref.)

Molecular characterization of G6PD deficiency in Southern Italy: heterogeneity, correlation genotype-phenotype and description of a new variant (G6PD Neapolis). Alfinito F, et al. **Br J Haematol** 1997 Jul;98(1):41-6

Influence of pharmacogenetics on drug disposition and response. Eichelbaum M, et al. **Clin Exp Pharmacol Physiol** 1996 Oct-Nov;23(10-11):983-5 (21 ref.)

Erythrocyte glucose-6-phosphate dehydrogenase deficiency in Poland--a study on the 563 and 1311 mutations of the G6PD gene. Jabłońska-Skwiecińska E, et al. **Eur J Hum Genet** 1997 Jan-Feb;5(1):22-4

G6PD NanKang (517 T-->C; 173 Phe-->Leu): a new Chinese G6PD variant associated with neonatal jaundice. Chen HL, et al. **Hum Hered** 1996 Jul-Aug;46(4):201-4

Molecular characterization of G6PD deficiency in Oman. Daar S, et al. **Hum Hered** 1996 May-Jun;46(3):172-6

Molecular characterization of glucose-6-phosphate

dehydrogenase deficiency in Brazil. Saad ST, et al. **Hum Hered** 1997 Jan–Feb;47(1):17–21
Independent origin of single and double mutations in the human glucose 6–phosphate dehydrogenase gene. Vulliamy T, et al. **Hum Mutat** 1996;8(4):311–8
Sickle cell and G–6–PD deficiency gene in cord blood samples: experience at King Khalid University Hospital, Riyadh. al–Nuaim L, et al. **J Trop Pediatr** 1997 Apr; 43(2):71–4
Nucleotide 1376 G—>T mutation in G6PD–deficient Chinese in Malaysia. Ainoon O, et al. **Malays J Pathol** 1995 Dec;17(2):61–5
Hemolytic anemias due to erythrocyte enzyme deficiencies. Jacobasch G, et al. **Mol Aspects Med** 1996 Apr;17(2):143–70
A glucose–6–phosphate dehydrogenase (G6PD) splice site consensus sequence mutation associated with G6PD enzyme deficiency. Sanders S, et al. **Mutat Res** 1997 Mar 4;374(1):79–87
Malaria and human evolution. Sinha S. **Natl Med J India** 1996 Jul–Aug;9(4):176–7

IMMUNOLOGY

Effect of glucose–6–phosphate dehydrogenase deficiency on neutrophil function. Ardati KO, et al. **Acta Haematol** 1997; 97(4):211–5

METABOLISM

Influence of pharmacogenetics on drug disposition and response. Eichelbaum M, et al. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov;23(10–11):983–5 (21 ref.)
Muscle expression of glucose–6–phosphate dehydrogenase deficiency in different variants. Ninfali P, et al. **Clin Genet** 1995 Nov;48(5):232–7
Hemolytic anemias due to erythrocyte enzyme deficiencies. Jacobasch G, et al. **Mol Aspects Med** 1996 Apr;17(2):143–70

MORTALITY

Mortality of lead smelter workers with the glucose–6–phosphate dehydrogenase–deficient phenotype. Cocco P, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):223–5

PHYSIOPATHOLOGY

Increased resistance to oxidative stress in normal and glucose–6–phosphate dehydrogenase–deficient hemolysates in the presence of enzyme substrates. Yücel G, et al. **Int J Clin Lab Res** 1997;27(1):55–9
Use of tolfenamic acid in febrile children with and without glucose–6–phosphate dehydrogenase deficiency. Haliotis FA, et al. **Int J Clin Pharmacol Ther** 1997 Mar;35(3):103–6

GLUCOSEPHOSPHATE ISOMERASE

BIOSYNTHESIS

Changes in adult muscle phenotype in response to disuse and passive stretch. Loughna PT, et al. **Biochem Soc Trans** 1996 May;24(2):284S

DEFICIENCY

Hematologically important mutations: molecular abnormalities of glucose phosphate isomerase deficiency. Fujii H, et al. **Blood Cells Mol Dis** 1996;22(2):96–7 (11 ref.)
Glucose phosphate isomerase deficiency: biochemical and molecular genetic studies on the enzyme variants of two patients with severe haemolytic anaemia. Huppke P, et al. **Eur J Pediatr** 1997 Aug;156(8):605–9

GENETICS

VNTR at porcine GPI locus. Davoli R, et al. **Anim Genet** 1996 Aug;27(4):290–2
Detection of a new variant phenotype of phosphohexose isomerase in the Gadaba tribe of Andhra Pradesh, south India. Rao PM, et al. **Anthropol Anz** 1996 Dec;54(4):307–10
Glucose phosphate isomerase deficiency: biochemical and molecular genetic studies on the enzyme variants of two patients with severe haemolytic anaemia. Huppke P, et al. **Eur J Pediatr** 1997 Aug;156(8):605–9
Interruption of the phosphoglucose isomerase gene results in glucose auxotrophy in Mycobacterium smegmatis. Tuckman D, et al. **J Bacteriol** 1997 Apr;179(8):2724–30
Transkingdom transfer of the phosphoglucose isomerase gene. Katz LA. **J Mol Evol** 1996 Nov;43(5):453–9
Sequence characterization of ENU–induced mutants of glucose phosphate isomerase in mouse. Pearce SR, et al. **Mamm Genome** 1995 Dec;6(12):858–61
Genetic expression of hexokinase and glucose phosphate isomerase in late–stage mouse preimplantation embryos: transcription activities in glucose/phosphate–containing HTF and glucose/phosphate–free P1 media. Johnson MD, et al. **Mol Hum Reprod** 1997 Apr;3(4):351–7
Alterations in the mRNA levels of two metabolic enzymes in rat skeletal muscle during stretch–induced hypertrophy and disuse atrophy. Brownson C, et al. **Pflugers Arch** 1996 Apr;431(6):990–2
Genetic structure of Plasmodium vivax isolates in India. Joshi H, et al. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr; 91(2):231–5

ISOLATION & PURIFICATION

The N–terminal sequence of Lactococcus lactis phosphoglucose isomerase purified by affinity chromatography differs from the other species. Nomura M, et al. **Arch Biochem Biophys** 1997 May 15;341(2):315–20
Population genetic structure of Ixodes pacificus (Acari:Ixodidae) using allozymes. Kain DE, et al. **J Med Entomol** 1997 Jul;34(4):441–50

METABOLISM

Equilibrium enzymes in metabolic pathways. Brooks SP. **Biochem Cell Biol** 1996;74(3):411–6
Genetic evidence that glycolysis is necessary for gastrulation in the mouse. Kelly A, et al. **Dev Dyn** 1996 Nov; 207(3):300–8

GLUCOSEPHOSPHATE URIDYLYLTRANSFERASE

BIOSYNTHESIS

Organization and transcription of the gene encoding potato UDP–glucose pyrophosphorylase. Borovkov AY, et al. **Gene** 1997 Feb 28;186(2):293–7

GENETICS

The gene encoding UDP–glucose pyrophosphorylase is required for the synthesis of xanthan gum in Xanthomonas campestris. Wei CL, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):607–12
Organization and transcription of the gene encoding potato UDP–glucose pyrophosphorylase. Borovkov AY, et al. **Gene** 1997 Feb 28;186(2):293–7
Localization of the human UGP2 gene encoding the muscle isoform of UDPglucose pyrophosphorylase to 2p13–p14 by fluorescence in situ hybridization. Cheng SD, et al. **Genomics** 1997 Feb 1;39(3):414–6
Cellular UDP–glucose deficiency caused by a single point mutation in the UDP–glucose pyrophosphorylase gene. Flores–Diaz M, et al. **J Biol Chem** 1997 Sep 19; 272(38):23784–91
Pyrophosphorylases in potato. V. Allelic polymorphism of UDP–glucose pyrophosphorylase in potato cultivars and its association with tuber resistance to sweetening in the cold. Sowokinos JR, et al. **Plant Physiol** 1997 Feb; 113(2):511–7

METABOLISM

mu–Monothiopyrophosphate as a substrate for inorganic pyrophosphatase and UDP–glucose pyrophosphorylase. Lightcap ES, et al. **Arch Biochem Biophys** 1996 Nov 1; 335(1):183–90
Physiological and morphological effects of genetic alterations leading to a reduced synthesis of UDP–glucose in Saccharomyces cerevisiae. Daran JM, et al. **FEMS Microbiol Lett** 1997 Aug 1;153(1):89–96
The GalF protein of Escherichia coli is not a UDP–glucose pyrophosphorylase but interacts with the GalU protein possibly to regulate cellular levels of UDP–glucose. Marolda CL, et al. **Mol Microbiol** 1996 Dec;22(5):827–40

GLUCOSEPHOSPHATES

CHEMISTRY

Probing the ionization state of substrate alpha–D–glucopyranosyl phosphate bound to glycogen phosphorylase b. Street IP, et al. **Biochem J** 1995 Jun 15; 308 (Pt 3):1017–23

GLUCOSIDASES

ANTAGONISTS & INHIBITORS

Study of the effect of miglitol on the pharmacokinetics and pharmacodynamics of warfarin in healthy males. Schall R, et al. **Arzneimittelforschung** 1996 Jan;46(1):41–6
Oral antihyperglycaemics. Considerations in older patients with non–insulin–dependent diabetes mellitus. Jennings PE. **Drugs Aging** 1997 May;10(5):323–31 (27 ref.)

CHEMISTRY

Effects of temperature and SDS on the structure of beta–glycosidase from the thermophilic archaeon Sulfolobus solfataricus. D'auria S, et al. **Biochem J** 1997 May 1;323 (Pt 3):833–40
Crystal structure of the beta–glycosidase from the hyperthermophilic archeon Sulfolobus solfataricus: resilience as a key factor in thermostability. Aguilar CF, et al. **J Mol Biol** 1997 Sep 5;271(5):789–802
Perturbation of conformational dynamics, enzymatic activity, and thermostability of beta–glycosidase from archaeon Sulfolobus solfataricus by pH and sodium dodecyl sulfate detergent. D'Auria S, et al. **Proteins** 1997 Jan;27(1):71–9

DEFICIENCY

[Chronic respiratory failure in a case with juvenile–onset acid alpha–glucosidase deficiency; successful therapy with nasal intermittent positive pressure ventilation (NIPPV)] Tanaka C, et al. **No To Hattatsu** 1997 Jan;29(1):51–4 (Eng. Abstr.) **(Jpn)**

GENETICS

Phospho–beta–glucosidase from Fusobacterium mortiferum: purification, cloning, and inactivation by 6–phosphoglucono–delta–lactone. Thompson J, et al. **J Bacteriol** 1997 Mar;179(5):1636–45
Identification and characterization of a new beta–glucoside utilization system in Bacillus subtilis. Tobisch S, et al. **J Bacteriol** 1997 Jan;179(2):496–506
Isozyme polymorphism of cellulases in Aspergillus terreus. Singh S, et al. **J Basic Microbiol** 1996;36(4):289–96

ISOLATION & PURIFICATION

The role of the cellulolytic high molecular mass (HMM) complex of the anaerobic fungus Piromyces sp. strain E2 in the hydrolysis of microcrystalline cellulose. Dijkerman R, et al. **Arch Microbiol** 1997 Feb–Mar;167(2–3):137–42
Phospho–beta–glucosidase from Fusobacterium mortiferum: purification, cloning, and inactivation by 6–phosphoglucono–delta–lactone. Thompson J, et al. **J Bacteriol** 1997 Mar;179(5):1636–45

METABOLISM

Immobilization on chitosan of a thermophilic beta–glycosidase expressed in Saccharomyces cerevisiae. D'Auria S, et al. **Appl Biochem Biotechnol** 1996 Oct–Nov; 61(1–2):157–66
The role of the cellulolytic high molecular mass (HMM) complex of the anaerobic fungus Piromyces sp. strain E2 in the hydrolysis of microcrystalline cellulose. Dijkerman R, et al. **Arch Microbiol** 1997 Feb–Mar;167(2–3):137–42
Expression of catalytically active human multifunctional glycogen–debranching enzyme and lysosomal acid alpha–glucosidase in insect cells. Wu JY, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):755–64
Identification of two glutamic acid residues essential for catalysis in the beta–glycosidase from the thermoacidophilic archaeon Sulfolobus solfataricus. Moracci M, et al. **Protein Eng** 1996 Dec;9(12):1191–5
[Degradation of Maillard reaction products by amylolytic enzymes. 2. Enzymatic degradation of heat–treated alpha–glucans with and without amino compounds] Kroh LW, et al. **Z Lebensm Unters Forsch** 1996 Oct; 203(4):385–90 (Eng. Abstr.) **(Ger)**

GLUCOSIDES

Solubilization and reconstitution of vesicular stomatitis virus envelope using octylglucoside. Paternostre M, et al. **Biophys J** 1997 Apr;72(4):1683–94
The use of nicotinates and sulfoquinovosyl monoacylglycerols in the analysis of monounsaturated n–3 fatty acids by mass spectrometry. Keusgen M, et al. **Lipids** 1996 Feb;31(2):231–8

ADMINISTRATION & DOSAGE

Synergistic effect of ethyl–6–O–decanoyl glucoside and chlorhexidine in contact lens disinfection. Lehtonen OJ, et al. **APMIS** 1996 Jul–Aug;104(7–8):603–6
Evaluation of dipalmitoylphosphatidylcholine liposomes containing a soybean–derived sterylglucoside mixture for liver targeting. Shimizu K, et al. **J Drug Target** 1996; 4(4):245–53

ANALYSIS

Analysis of Stevia glycosides by capillary electrophoresis. Mauri P, et al. **Electrophoresis** 1996 Feb;17(2):367–71
Simultaneous determination of a new anticancer agent (NB–506) and its active metabolite in human plasma and urine by high–performance liquid chromatography with ultraviolet detection. Takenaga N, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):111–7
[Extraction technology of effervescent granules for arresting cold pain optimized by orthogonal tests] Sun X, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Mar;21(3):159–61, 190 (Eng. Abstr.) **(Chi)**
[Use of the HPLC method for determination of glucopiranosides during ripening of faba bean seeds] Nestorowicz J, et al. **Rocz Panstw Zakl Hig** 1996; 47(2):231–7 (Eng. Abstr.) **(Pol)**

BIOSYNTHESIS

The stpA gene form synechocystis sp. strain PCC 6803 encodes the glucosylglycerol–phosphate phosphatase involved in cyanobacterial osmotic response to salt shock. Hagemann M, et al. **J Bacteriol** 1997 Mar;179(5):1727–33
Enzymatic preparation of pyridoxine 4'– and 5–alpha–D–glucosides. Suzuki Y, et al. **Methods Enzymol** 1997;280:66–71
Genetic engineering of plant secondary metabolism. Accumulation of 4–hydroxybenzoate glucosides as a result of the expression of the bacterial ubiC gene in tobacco. Siebert M, et al. **Plant Physiol** 1996 Oct;112(2):811–9

CHEMICAL SYNTHESIS

Reductive syntheses of p–aminophenyl–beta–D–glucoside and its conversion to beta–glucosyl Yariv reagent. Ganjian

I, et al. **Anal Biochem** 1997 Mar 1;246(1):152–5

Synthesis of the photoaffinity label [1'-14C]-6C-(azimethyl)octylglucoside and its reaction with isolated renal brush border membranes. Kipp H, et al. **Anal Biochem** 1997 Feb 1;245(1):61–8

Synthesis and anticoagulant activity of sulfated glucoside-bearing polymer. Akashi M, et al. **Bioconjug Chem** 1996 Jul–Aug;7(4):393–5

The use of 2-deoxy-2-trichloroacetamido-D-glucopyranose derivatives in syntheses of hyaluronic acid-related tetra-, hexa-, and octa-saccharides having a methyl beta-D-glucopyranosiduronic acid at the reducing end. Blatter G, et al. **Carbohydr Res** 1996 Jul 19;288:109–25

4-(Arylamino)phenyl alpha-D-glucopyranosides as potential anti-HIV agents. Briggs JC, et al. **Carbohydr Res** 1996 Mar 18;282(2):293–8

Synthesis of biologically active polyphenolic glycosides (combretastatin and resveratrol series). Orsini F, et al. **Carbohydr Res** 1997 Jun 20;301(3–4):95–109

Syntheses of 1-O-carboxyalkyl GLA-60 analogues. Shiozaki M, et al. **Carbohydr Res** 1996 Mar 22;283:27–51

Nonionic surfactants regioselective synthesis of fatty acid esters of alpha- and beta-glucopyranose. De Luca D, et al. **Lipids** 1997 May;32(5):559–63

Preparation of nonlabeled, tritiated, and deuterated pyridoxine 5'-beta-D-glucoside and assay of pyridoxine-5'-beta-D-glucoside hydrolase. Gregory JF 3rd, et al. **Methods Enzymol** 1997;280:58–65

[Synthesis of beta-maltosides, derivatives of p-nitrophenol, 2-chloro-4-nitrophenol, and 4-methylumbelliferone, and their use as substrates for determining alpha-glucosidase activity] Voznyi IaV, et al. **Vopr Med Khim** 1996 Oct–Dec; 42(4):348–54 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Synthesis of the photoaffinity label [1'-14C]-6C-(azimethyl)octylglucoside and its reaction with isolated renal brush border membranes. Kipp H, et al. **Anal Biochem** 1997 Feb 1;245(1):61–8

Thermodynamics of interaction of octyl glucoside with phosphatidylcholine vesicles: partitioning and solubilization as studied by high sensitivity titration calorimetry. Keller M, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):178–92

Hexose keto-C-glycoside conjugates: design, synthesis, cytotoxicity, and evaluation of their affinity for the glucose transporter Glut-1. Uriel C, et al. **Bioorg Med Chem** 1996 Dec;4(12):2081–90

Partitioning of octyl glucoside between octyl glucoside/phosphatidylcholine mixed aggregates and aqueous media as studied by isothermal titration calorimetry. Opatowski E, et al. **Biophys J** 1997 Sep; 73(3):1448–57

Octyl-beta-D-glucopyranoside partitioning into lipid bilayers: thermodynamics of binding and structural changes of the bilayer. Wenk MR, et al. **Biophys J** 1997 Apr; 72(4):1719–31

Crystal structure and solid-state NMR analysis of methyl 2,3,6-tri-O-acetyl-2-deoxy-2-[3-(2-phenylethyl)-ureido]-beta-D- glucopyranoside. Anulewicz R, et al. **Carbohydr Res** 1996 Feb 7;281(1):1–10

Medicinal foodstuffs. V. Moroheiya. (1): Absolute stereostructures of corchoionosides A, B, and C, histamine release inhibitors from the leaves of Vietnamese Corchorus olitorius L. (Tiliaceae). Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Mar;45(3):464–9

Comparison of alkylglycoside surfactants in enantioseparation by capillary electrophoresis. Mechref Y, et al. **Electrophoresis** 1997 Jun;18(6):912–8

Interaction of kunjin virus with octyl-D-glucoside extracted Vero cell plasma membrane. Sankaran D, et al. **J Virol Methods** 1997 Jan;63(1–2):167–73

Bioactive polyacetylenes from Bidens pilosa [letter] Alvarez L, et al. **Planta Med** 1996 Aug;62(4):355–7

IMMUNOLOGY

Differentiation of Entamoeba histolytica from E. dispar facilitated by monoclonal antibodies against a 150-kDa surface antigen. Tachibana H, et al. **Parasitol Res** 1997; 83(5):435–9

ISOLATION & PURIFICATION

6'-O-apiosyl-verbascoside in the flowers of mullein (Verbascum species). Klimek B. **Acta Pol Pharm** 1996 Mar–Apr;53(2):137–40

Medicinal foodstuffs. II. On the bioactive constituents of the tuber of Sagittaria trifolia L. (Kuwai, Alismataceae): absolute stereostructures of trifoliones A, B, C, and D, sagittariosides a and b, and arabinothalictoside. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):492–9

Development of bioactive functions in hydrangeae dulcis folium. V. On the antiallergic and antimicrobial principles of hydrangeae dulcis folium. (2). Thunberginols C, D, and E, thunberginol G 3'-O-glucoside, (-)-hydrangenol 4'-o-glucoside, and (+)-hydrangenol 4'-O-glucoside. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug; 44(8):1440–7

Cardioactive compounds from Eremophila species. Pennacchio M, et al. **J Ethnopharmacol** 1996 Jul 26; 53(1):21–7

The secalosides, novel tumor cell growth inhibitory glycosides from a pollen extract. Jaton JC, et al. **J Nat Prod** 1997 Apr;60(4):356–60

Fagomine isomers and glycosides from Xanthocercis zambesiaca. Kato A, et al. **J Nat Prod** 1997 Mar;60(3):312–4

Spinonin, a novel glycoside from Ononis spinosa subsp. leiosperma. Kirmizigül S, et al. **J Nat Prod** 1997 Apr; 60(4):378–81

Antihyperglycemic activity of phenolics from Pterocarpus marsupium. Manickam M, et al. **J Nat Prod** 1997 Jun; 60(6):609–10

Amarogentin, a naturally occurring secoiridoid glycoside and a newly recognized inhibitor of topoisomerase I from Leishmania donovani. Ray S, et al. **J Nat Prod** 1996 Jan; 59(1):27–9

An iridoid glucoside from Jasminum hemsleyi. Tanahashi T, et al. **J Nat Prod** 1996 Aug;59(8):798–800

METABOLISM

Reductive syntheses of p-aminophenyl-beta-D-glucoside and its conversion to beta-glucosyl Yariv reagent. Ganjian I, et al. **Anal Biochem** 1997 Mar 1;246(1):152–5

Enrichment and isolation of a nitropropanol-metabolizing bacterium from the rumen. Anderson RC, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3885–6

Ceramide glucosylation in bean hypocotyl microsomes: evidence that steryl glucoside serves as glucose donor. Lynch DV, et al. **Arch Biochem Biophys** 1997 Apr 15; 340(2):311–6

Characterization of a glucosylglycerol-phosphate-accumulating, salt-sensitive mutant of the cyanobacterium Synechocystis sp. strain PCC 6803. Hagemann M, et al. **Arch Microbiol** 1996 Aug; 166(2):83–91

Uptake and use of the osmoprotective compounds trehalose, glucosylglycerol, and sucrose by the cyanobacterium Synechocystis sp. PCC6803. Mikkat S, et al. **Arch Microbiol** 1997 Feb-Mar;167(2–3):112–8

Structure of the endoglucanase I from Fusarium oxysporum: native, cellobiose, and 3,4-epoxybutyl beta-D-cellobioside-inhibited forms, at 2.3 A resolution. Sulzenbacher G, et al. **Biochemistry** 1997 May 13; 36(19):5902–11

The enzymatic hydrolysis of 6-acylamino-4-methylumbelliferyl-beta-D-glucosides: identification of a novel human acid beta-glucosidase. Mikhaylova M, et al. **Biochim Biophys Acta** 1996 Oct 7; 1317(1):71–9

4-Pentafluoroethylumbelliferyl-beta-D-glucoside as a new fluorogenic substrate for acid beta-D-glucosidase. Tsvetkova IV, et al. **Clin Chim Acta** 1996 Apr 30; 248(2):125–33

Human melanoma and Chinese hamster ovary cells galactosylate n-alkyl-beta-glucosides using UDP gal:GlcNAc beta 1,4 galactosyltransferase. Pörtner A, et al. **Glycobiology** 1996 Jan;6(1):7–13

The ggtA gene encodes a subunit of the transport system for the osmoprotective compound glucosylglycerol in Synechocystis sp. strain PCC 6803. Hagemann M, et al. **J Bacteriol** 1997 Feb;179(3):714–20

Identification and characterization of a new beta-glucoside utilization system in Bacillus subtilis. Tobisch S, et al. **J Bacteriol** 1997 Jan;179(2):496–506

Different energization mechanisms drive the vacuolar uptake of a flavonoid glucoside and a herbicide glucoside. Klein M, et al. **J Biol Chem** 1996 Nov 22;271(47):29666–71

Identification of Glu-330 as the catalytic nucleophile of Candida albicans exo-beta-(1,3)-glucanase. Mackenzie LF, et al. **J Biol Chem** 1997 Feb 7;272(6):3161–7

Purification and characterization of a microsomal bile acid beta-glucosidase from human liver. Matern H, et al. **J Biol Chem** 1997 Apr 25;272(17):11261–7

In-vivo assessment of extrahepatic metabolism of paeoniflorin in rats: relevance to intestinal floral metabolism. Takeda S, et al. **J Pharm Pharmacol** 1997 Jan; 49(1):35–9

Sinapic acid ester metabolism in wild type and a sinapoylglucose-accumulating mutant of arabidopsis. Lorenzen M, et al. **Plant Physiol** 1996 Dec;112(4):1625–30

Enhancing effect of UV-light on the accumulation of carthamine in dyer's saffron florets. Saito K, et al. **Z Naturforsch [C]** 1996 Sep-Oct;51(9–10):667–70

PHARMACOKINETICS

Pharmacokinetic behaviour and cardiovascular effects of intravenously administered hypoxoside and rooperol. Coetzee JF, et al. **Arzneimittelforschung** 1996 Oct; 46(10):997–1000

Pharmacokinetic study of paeonimetabolin I, a major metabolite of paeoniflorin from paeony roots. Heikal OA, et al. **Biol Pharm Bull** 1997 May;20(5):517–21

Absorption and excretion of paeoniflorin in rats. Takeda S, et al. **J Pharm Pharmacol** 1995 Dec;47(12A):1036–40

Pharmacokinetic studies of 131I-stevioside and its metabolites. Cardoso VN, et al. **Nucl Med Biol** 1996 Jan; 23(1):97–100

Pharmacokinetics of 2-naphthol following intrapericardial administration, and formation of 2-naphthyl-beta-D-glucoside and 2-naphthyl sulphate in the American lobster, Homarus americanus. Li CL, et al. **Xenobiotica** 1997 Jun;27(6):609–26

PHARMACOLOGY

Characteristics of renal Na(+)-D-glucose cotransport in the skate (Raja erinacea) and shark (Squalus acanthias). Kipp H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R134–42

Pharmacokinetic behaviour and cardiovascular effects of intravenously administered hypoxoside and rooperol. Coetzee JF, et al. **Arzneimittelforschung** 1996 Oct; 46(10):997–1000

Candidates for cognitive enhancer extracted from medicinal plants: paeoniflorin and tetramethylpyrazine. Watanabe H. **Behav Brain Res** 1997 Feb;83(1–2):135–41

Aloesin up-regulates cyclin E/CDK2 kinase activity via inducing the protein levels of cyclin E, CDK2, and CDC25A in SK-HEP-1 cells. Lee KY, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):285–92

Neuritogenic effect of natural iridoid compounds on PC12h cells and its possible relation to signaling protein kinases. Yamazaki M, et al. **Biol Pharm Bull** 1996 Jun;19(6):791–5

Hexose keto-C-glycoside conjugates: design, synthesis, cytotoxicity, and evaluation of their affinity for the glucose transporter Glut-1. Uriel C, et al. **Bioorg Med Chem** 1996 Dec;4(12):2081–90

Solubilizing effects caused by the nonionic surfactant dodecylmaltoside in phosphatidylcholine liposomes. de la Maza A, et al. **Biophys J** 1997 Apr;72(4):1668–75

4-(Arylamino)phenyl alpha-D-glucopyranosides as potential anti-HIV agents. Briggs JC, et al. **Carbohydr Res** 1996 Mar 18;282(2):293–8

Prophylactic effects of sucralfate and geraniin on ethanol-induced gastric mucosal damage in rats [published erratum appears in Chin J Physiol 1996;39(1):63] Hung CR, et al. **Chin J Physiol** 1995;38(4):211–7

The effect of verbascoside on cyclic 3',5'-adenosine monophosphate levels in isolated rat heart. Pennacchio M, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):169–71

Translocation of cytosolic annexin 2 to a Triton-insoluble membrane subdomain upon nicotine stimulation of chromaffin cultured cells. Sagot I, et al. **FEBS Lett** 1997 Jun 30;410(2–3):229–34

Synthesis of a new phosphoglycolipid with biological activity towards platelets. Avramopoulou V, et al. **Int J Biochem Cell Biol** 1997 May;29(5):767–74

Combined treatment with a new biscarbodithioate C9G2DTC and BGDTC for mobilizing cadmium deposits in rats. Kostial K, et al. **J Appl Toxicol** 1996 Mar–Apr; 16(2):157–8

The mechanism of anticoagulant activity of a novel heparinoid sulfated glucoside-bearing polymer. Sakamoto N, et al. **J Biomater Sci Polym Ed** 1997;8(7):545–53

Gastrodin and p-hydroxybenzyl alcohol facilitate memory consolidation and retrieval, but not acquisition, on the passive avoidance task in rats. Hsieh MT, et al. **J Ethnopharmacol** 1997 Mar;56(1):45–54

Regulation of the fibrinolytic potential of cultured human umbilical vein endothelial cells: astragaloside IV downregulates plasminogen activator inhibitor-1 and upregulates tissue-type plasminogen activator expression. Zhang WJ, et al. **J Vasc Res** 1997 Jul–Aug;34(4):273–80

Acteoside, a component of Stachys sieboldii MIQ, may be a promising antinephritic agent (3): effect of aceteoside on expression of intercellular adhesion molecule-1 in experimental nephritic glomeruli in rats and cultured endothelial cells. Hayashi K, et al. **Jpn J Pharmacol** 1996 Feb;70(2):157–68

Hydroxyl radical-scavenging property of secoisolariciresinol diglucoside (SDG) isolated from flax-seed. Prasad K. **Mol Cell Biochem** 1997 Mar;168(1–2):117–23

Cytotoxic and genotoxic effects of cleistanthin B in normal and tumour cells. Prabhakaran C, et al. **Mutagenesis** 1996 Nov;11(6):553–7

Free radical scavenging activity of the Japanese herbal medicine toki-shakuyaku-san (TJ-23) and its effect on superoxide dismutase activity, lipid peroxides, glutamate, and monoamine metabolites in aged rat brain. Ueda Y, et al. **Neurochem Res** 1996 Aug;21(8):909–14

Antihyperglycemic effects of paeoniflorin and 8-debenzoylpaeoniflorin, glucosides from the root of Paeonia lactiflora. Hsu FL, et al. **Planta Med** 1997 Aug; 63(4):323–5

Effects of Gastrodia elata and its active constituents on scopolamine-induced amnesia in rats. Wu CR, et al. **Planta Med** 1996 Aug;62(4):317–21

Effects of ethyl alpha-D-glucoside on skin barrier disruption. Kitamura N, et al. **Skin Pharmacol** 1997;10(3):153–9

[Studies on Rehmanniae radix. III. The relation between changes of constituents and improvable effects on hemorheology with the processing of roots of Rehmannia glutinosa] Kubo M, et al. **Yakugaku Zasshi** 1996 Feb; 116(2):158–68 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Comparisons of geniposidic acid and geniposide on antitumor and radioprotection after sublethal irradiation. Hsu HY, et al. **Cancer Lett** 1997 Feb 26;113(1–2):31–7

Antihyperglycemic effects of paeoniflorin and 8-debenzoylpaeoniflorin, glucosides from the root of Paeonia lactiflora. Hsu FL, et al. **Planta Med** 1997 Aug; 63(4):323–5

[Nuclear cardiology study on effective ingredients of Astragalus membranaceus in treating heart failure] Luo HM, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih**

1995 Dec;15(12):707–9 (Eng. Abstr.) **(Chi)**

TOXICITY

Manifestation of cryptic fibroblast tissue factor occurs at detergent concentrations which dissolve the plasma membrane. Carson SD. **Blood Coagul Fibrinolysis** 1996 Apr; 7(3):303–13

Fibroblasts restrict tissue factor from vesicles which form in response to low concentrations of detergent. Carson SD, et al. **Blood Coagul Fibrinolysis** 1996 Apr;7(3):314–24

Acute toxicity of stevioside, a natural sweetener, and its metabolite, steviol, in several animal species. Toskulkao C, et al. **Drug Chem Toxicol** 1997 Feb–May;20(1–2):31–44

Assessment of the carcinogenicity of stevioside in F344 rats. Toyoda K, et al. **Food Chem Toxicol** 1997 Jun; 35(6):597–603

Evaluation of the genotoxicity of stevioside and steviol using six in vitro and one in vivo mutagenicity assays. Matsui M, et al. **Mutagenesis** 1996 Nov;11(6):573–9

GLUCOSIDURONATES see **GLUCURONATES**

GLUCOSINOLATES

ADVERSE EFFECTS

Studies on the toxic effects of crambe meal and two of its constituents, 1–cyano–2–hydroxy–3–butene (CHB) and epi–progoitrin, in broiler chick diets. Kloss P, et al. **Br Poult Sci** 1996 Dec;37(5):971–86

ISOLATION & PURIFICATION

Comprehensive chromatographic and spectroscopic methods for the separation and identification of intact glucosinolates. Prestera T, et al. **Anal Biochem** 1996 Aug 1;239(2):168–79

Broccoli sprouts: an exceptionally rich source of inducers of enzymes that protect against chemical carcinogens. Fahey JW, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10367–72

METABOLISM

Glucosinolates as bioactive components of Brassica vegetables: induction of cytochrome P450 1A1 in Hep G2 cells as assessed using transient transfection. Williamson G, et al. **Biochem Soc Trans** 1996 Aug;24(3):383S

Mechanism–based inhibition and stereochemistry of glucosinolate hydrolysis by myrosinase. Cottaz S, et al. **Biochemistry** 1996 Dec 3;35(48):15256–9

Effects of processing conditions on glucosinolates in cruciferous vegetables. Verkerk R, et al. **Cancer Lett** 1997 Mar 19;114(1–2):193–4

Modulation of the biological effects of glucosinolates by inulin and oat fibre in gnotobiotic rats inoculated with a human whole faecal flora. Roland N, et al. **Food Chem Toxicol** 1996 Aug;34(8):671–7

PHARMACOLOGY

Do dietary phytochemicals with cytochrome P–450 enzyme–inducing activity increase high–density–lipoprotein concentrations in humans? Nanjee MN, et al. **Am J Clin Nutr** 1996 Nov;64(5):706–11

Chemoprotection against cancer by isothiocyanates and glucosinolates. Talalay P, et al. **Biochem Soc Trans** 1996 Aug;24(3):806–10 (35 ref.)

Glucosinolates as bioactive components of Brassica vegetables: induction of cytochrome P450 1A1 in Hep G2 cells as assessed using transient transfection. Williamson G, et al. **Biochem Soc Trans** 1996 Aug;24(3):383S

Effect of glucosinolate breakdown products on beta–naphthoflavone–induced expression of human cytochrome P450 1A1 via the Ah receptor in Hep G2 cells. Wang H, et al. **Cancer Lett** 1997 Mar 19;114(1–2):121–5

Are whole extracts and purified glucosinolates from cruciferous vegetables antioxidants? Plumb GW, et al. **Free Radic Res** 1996 Jul;25(1):75–86

THERAPEUTIC USE

A review of mechanisms underlying anticarcinogenicity by brassica vegetables. Verhoeven DT, et al. **Chem Biol Interact** 1997 Feb 28;103(2):79–129 (220 ref.)

Glucosinolates in Brassica: occurrence and significance as cancer–modulating agents. Jongen WM. **Proc Nutr Soc** 1996 Mar;55(1B):433–46 (56 ref.)

GLUCOSYL CERAMIDES see **GLUCOSYLCERAMIDES**

GLUCOSYLCERAMIDASE

ADMINISTRATION & DOSAGE

The entrapment of mannose–terminated glucocerebrosidase (Alglucerase) in human carrier erythrocytes. Bax BE, et al. **Biochem Soc Trans** 1996 Aug;24(3):441S

[Enzyme replacement therapy: a new treatment concept in Gaucher disease] Beck M, et al. **Wien Klin Wochenschr** 1997 Feb 14;109(3):81–5 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Pulmonary hypertension in two patients with type I Gaucher disease while on alglucerase therapy. Harats D, et al. **Acta Haematol** 1997;98(1):47–50

Pulmonary hypertension developing after alglucerase therapy in two patients with type 1 Gaucher disease complicated by the hepatopulmonary syndrome. Dawson A, et al. **Ann Intern Med** 1996 Dec 1;125(11):901–4

Effect of low–dose enzyme replacement therapy on bones in Gaucher disease patients with severe skeletal involvement. Elstein D, et al. **Blood Cells Mol Dis** 1996; 22(2):104–11; discussion 112–4

ANALYSIS

A flow cytometric assay for lysosomal glucocerebrosidase. van Es HH, et al. **Anal Biochem** 1997 May 1;247(2):268–71

BLOOD

Detection and isolation of gene–corrected cells in Gaucher disease via a fluorescence–activated cell sorter assay for lysosomal glucocerebrosidase activity. Lorincz M, et al. **Blood** 1997 May 1;89(9):3412–20

DEFICIENCY

The clinical, molecular, and pathological characterisation of a family with two cases of lethal perinatal type 2 Gaucher disease. Sidransky E, et al. **J Med Genet** 1996 Feb; 33(2):132–6

GENETICS

Oculomotor apraxia in a case of Gaucher's disease with homozygous T1448C mutation. Tsai LP, et al. **Acta Paediatr Sin** 1996 Jan–Feb;37(1):52–5

Gaucher disease: functional expression of the normal glucocerebrosidase and Gaucher T1366G and G1604A alleles in Baculovirus–transfected Spodoptera frugiperda cells. Choy FY, et al. **Am J Med Genet** 1996 Oct 28; 65(3):184–9

Novel insertion mutation in a non–Jewish Caucasian type 1 Gaucher disease patient. Choy FY, et al. **Am J Med Genet** 1997 Jan 20;68(2):211–5

Type I Gaucher disease due to homozygosity for the 259T mutation in a Bedouin patient. Rockah R, et al. **Am J Med Genet** 1997 Oct 3;72(1):77–8

55–base pair deletion in certain patients with Gaucher disease complicates screening for common Gaucher alleles. Tayebi N, et al. **Am J Med Genet** 1996 Dec 18;66(3):316–9

Mutation analysis in 46 British and Irish patients with Gaucher's disease. Hatton CE, et al. **Arch Dis Child** 1997 Jul;77(1):17–22

The glucocerebrosidase D409H mutation in Gaucher disease. Pasmanik–Chor M, et al. **Biochem Mol Med** 1996 Dec; 59(2):125–33

Genotype D399N/R463C in a patient with type 3 Gaucher disease previously assigned genotype N370S/R463C. Tayebi N, et al. **Biochem Mol Med** 1996 Apr;57(2):149–51

Transplantation and gene transfer of the human glucocerebrosidase gene into immunoselected primate CD34+Thy–1+ cells. Donahue RE, et al. **Blood** 1996 Dec 1;88(11):4166–72

Gaucher disease: studies of phenotype, molecular diagnosis and treatment. Rice EO, et al. **Clin Genet** 1996 Mar; 49(3):111–8

Gaucher disease. Beutler E. **Curr Opin Hematol** 1997 Jan; 4(1):19–23 (85 ref.)

Identification of factors regulating the expression of the human glucocerebrosidase gene. Moran D, et al. **Gene** 1997 Jul 31;194(2):201–13

Increased levels of spliced RNA account for augmented expression from the MFG retroviral vector in hematopoietic cells. Krall WJ, et al. **Gene Ther** 1996 Jan; 3(1):37–48

Complete restoration of glucocerebrosidase deficiency in Gaucher fibroblasts using a bicistronic MDR retrovirus and a new selection strategy. Aran JM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2165–75

Expression of the human multidrug resistance and glucocerebrosidase cDNAs from adeno–associated vectors: efficient promoter activity of AAV sequences and in vivo delivery via liposomes. Baudard M, et al. **Hum Gene Ther** 1996 Jul 10;7(11):1309–22

Genetic fine localization of the beta–glucocerebrosidase (GBA) and prosaposin (PSAP) genes: implications for Gaucher disease. Cormand B, et al. **Hum Genet** 1997 Jul; 100(1):75–9

Expression of mutated glucocerebrosidase alleles in human cells. Pasmanik–Chor M, et al. **Hum Mol Genet** 1997 Jun; 6(6):887–95

Type 1 Gaucher disease: identification of N396T and prevalence of glucocerebrosidase mutations in the Portuguese. Amaral O, et al. **Hum Mutat** 1996;8(3):280–1

Glucocerebrosidase (Gaucher disease). Beutler E, et al. **Hum Mutat** 1996;8(3):207–13

Mutation prevalence among 47 unrelated Japanese patients with Gaucher disease: identification of four novel mutations. Ida H, et al. **J Inherit Metab Dis** 1997 Mar; 20(1):67–73

Gaucher disease: molecular screening of the glucocerebrosidase 1601G and 1601A alleles in Victoria, British Columbia, Canada. Choy FY, et al. **J Med Genet** 1997 Jan;34(1):83–5

Glucocerebrosidase mutations in Gaucher disease. Beutler E, et al. **Mol Med** 1994 Nov;1(1):82–92

Gaucher disease: four families with previously undescribed mutations. Beutler E, et al. **Proc Assoc Am Physicians** 1996 May;108(3):179–84

METABOLISM

Complete restoration of glucocerebrosidase deficiency in Gaucher fibroblasts using a bicistronic MDR retrovirus and a new selection strategy. Aran JM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2165–75

Therapeutic delivery of proteins to macrophages: implications for treatment of Gaucher's disease. Mistry PK, et al. **Lancet** 1996 Dec 7;348(9041):1555–9

Turnover and distribution of intravenously administered mannose–terminated human acid beta–glucosidase in murine and human tissues. Xu YH, et al. **Pediatr Res** 1996 Feb;39(2):313–22

THERAPEUTIC USE

Differential effects of enzyme supplementation therapy on manifestations of type 1 Gaucher disease. Hollak CE, et al. **Am J Med** 1997 Sep;103(3):185–91

Gaucher disease: enzyme therapy in the acute neuronopathic variant. Prows CA, et al. **Am J Med Genet** 1997 Jul 11; 71(1):16–21

Plasma methylumbelliferyl–tetra–N–acetyl–beta–d–chitotetraoside hydrolase as a parameter during treatment of gaucher patients [letter] Den Tandt WR, et al. **Biochem Mol Med** 1996 Feb;57(1):71–2

Enzyme therapy in Gaucher disease type 1: effect of neutralizing antibodies to acid beta–glucosidase. Ponce E, et al. **Blood** 1997 Jul 1;90(1):43–8

Coagulation abnormalities in type 1 Gaucher disease are due to low–grade activation and can be partly restored by enzyme supplementation therapy. Hollak CE, et al. **Br J Haematol** 1997 Mar;96(3):470–6

Gaucher disease: studies of phenotype, molecular diagnosis and treatment. Rice EO, et al. **Clin Genet** 1996 Mar; 49(3):111–8

Enzyme replacement therapy [editorial; comment] Roth KS. **Clin Pediatr (Phila)** 1997 Mar;36(3):147–8. Comment on: Clin Pediatr (Phila) 1997 Mar;36(3):141–6.

Bone marrow relaxation times in Gaucher disease before and after enzyme replacement therapy. Magnaldi S, et al. **Eur Radiol** 1997;7(4):486–91

The effect of enzyme therapy in a patient with Gaucher disease type III. Bosman DK, et al. **J Inherit Metab Dis** 1996;19(5):703–4

Plasma chitotriosidase activity in Gaucher disease patients who have been treated either by bone marrow transplantation or by enzyme replacement therapy with alglucerase. Young E, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):595–602

Acceleration of retarded growth in children with Gaucher disease after treatment with alglucerase. Kaplan P, et al. **J Pediatr** 1996 Jul;129(1):149–53

Alglucerase (Ceredase). Wiltink EH, et al. **Pharm World Sci** 1996 Jan;18(1):16–9 (12 ref.)

Regression of skeletal changes in type 1 Gaucher disease with enzyme replacement therapy. Pastores GM, et al. **Skeletal Radiol** 1996 Jul;25(5):485–8

[Enzyme therapy in children with severe forms of Gaucher's disease] Zeman J, et al. **Cas Lek Cesk** 1997 Feb 5; 136(3):95–7 (Eng. Abstr.) **(Cze)**

GLUCOSYLCERAMIDES

BIOSYNTHESIS

Glucosylceramide synthesis is required for basic fibroblast growth factor and laminin to stimulate axonal growth. Boldin S, et al. **J Neurochem** 1997 Feb;68(2):882–5

Extracellular matrix upregulates synthesis of glucosylceramide–based glycosphingolipids in primary Schwann cells. Farrer RG, et al. **J Neurosci Res** 1996 Aug 1;45(3):248–57

ISOLATION & PURIFICATION

Isolation and possible composition of glucosylceramides from Paracoccidioides brasiliensis. Takahashi HK, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1441–4

METABOLISM

Tamoxifen retards glycosphingolipid metabolism in human cancer cells. Cabot MC, et al. **FEBS Lett** 1996 Sep 30; 394(2):129–31

Effect of saposins A and C on the enzymatic hydrolysis of liposomal glucosylceramide. Vaccaro AM, et al. **J Biol Chem** 1997 Jul 4;272(27):16862–7

Segregation of glucosylceramide and sphingomyelin occurs in the apical to basolateral transcytotic route in HepG2 cells. van IJzendoorn SC, et al. **J Cell Biol** 1997 Apr 21; 137(2):347–57

Glucosylceramide metabolism is regulated during normal and hormonally stimulated epidermal barrier development in the rat. Hanley K, et al. **J Lipid Res** 1997 Mar;38(3):576–84

PHARMACOLOGY

Effect of a chemically–synthesized acylglucosylceramide, epidermoside, on normal human keratinocyte

GLUCOSYLCERAMIDES

differentiation. Uchida Y, et al. **J Dermatol Sci** 1996 Apr; 12(1):64–8

Distinct roles for ceramide and glucosylceramide at different stages of neuronal growth. Schwarz A, et al. **J Neurosci** 1997 May 1;17(9):2929–38

GLUCOSYLTRANSFERASES

ANALYSIS

A microtiter-based fluorescence assay for (1,3)-beta-glucan synthases. Shedletzky E, et al. **Anal Biochem** 1997 Jun 15; 249(1):88–93

ANTAGONISTS & INHIBITORS

Inhibition of the trehalose-P synthase of mycobacteria by various antibiotics. Pan YT, et al. **Arch Biochem Biophys** 1996 Nov 15;335(2):258–66

Abrogation of shedding of immunosuppressive neuroblastoma gangliosides. Li R, et al. **Cancer Res** 1996 Oct 15;56(20):4602–5

Inhibition of UDP-glucose: protein transglucosylase by a maize endosperm protein factor. Rothschild A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):645–51

UDP-glucose:glycoprotein glucosyltransferase associates with endoplasmic reticulum chaperones and its activity is decreased in vivo by the inhalation anesthetic halothane. Amouzadeh HR, et al. **Chem Res Toxicol** 1997 Jan; 10(1):59–63

Tamoxifen retards glycosphingolipid metabolism in human cancer cells. Cabot MC, et al. **FEBS Lett** 1996 Sep 30; 394(2):129–31

Peroxidase-catalyzed generation of catechin oligomers that inhibit glucosyltransferase from Streptococcus sobrinus. Hamada S, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):35–40

Cell wall synthesis is a major target of mycoparasitic antagonism by Trichoderma harzianum. Lorito M, et al. **J Bacteriol** 1996 Nov;178(21):6382–5

Extensive glycosphingolipid depletion in the liver and lymphoid organs of mice treated with N-butyldeoxynojirimycin. Platt FM, et al. **J Biol Chem** 1997 Aug 1;272(31):19365–72

Lipopeptide inhibitors of fungal glucan synthase. Kurtz MB, et al. **J Med Vet Mycol** 1997 Mar-Apr;35(2):79–86 (52 ref.)

BIOSYNTHESIS

Growth and energetics of Leuconostoc mesenteroides NRRL B-1299 during metabolism of various sugars and their consequences for dextransucrase production. Dols M, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2159–65

Separation by FPLC chromatofocusing of UDP-glucosyltransferases from three developmental stages of Drosophila melanogaster. Rausell C, et al. **Arch Insect Biochem Physiol** 1997;34(3):347–58

Involvement of CIF1 (GGS1/TPS1) in osmotic stress response in Saccharomyces cerevisiae. Hazell BW, et al. **FEBS Lett** 1997 Sep 8;414(2):353–8

Effect of certain nutrients on the production of dextransucrase from Leuconostoc mesenteroides NRRL B-512F. Goyal A, et al. **J Basic Microbiol** 1997; 37(3):197–204

The filamentous fungus Aspergillus niger contains two "differentially regulated" trehalose-6-phosphate synthase-encoding genes, tpsA and tpsB. Wolschek MF, et al. **J Biol Chem** 1997 Jan 31;272(5):2729–35

Protein phosphorylation as a mechanism for osmotic-stress activation of sucrose-phosphate synthase in spinach leaves. Toroser D, et al. **Plant Physiol** 1997 Jul;114(3):947–55

CHEMISTRY

Evidence for separate UDP-glucose: spirostanol and UDP-glucose: solasodine glucosyltransferases in Solanum melongena. Pączkowski C, et al. **Adv Exp Med Biol** 1996; 404:47–55

Primary structure of dextransucrase from Leuconostoc mesenteroides NRRL B-1299. Comparison with dextransucrase from Leuconostoc mesenteroides NRRL B-512F. Monchois V, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:151–6

Effect on product specificity of cyclodextrin glycosyltransferase by site-directed mutagenesis. Kim YH, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):227–34

Trapping and characterization of the reaction intermediate in cyclodextrin glycosyltransferase by use of activated substrates and a mutant enzyme. Mosi R, et al. **Biochemistry** 1997 Aug 12;36(32):9927–34

Enhancement of cyclodextrin production through use of debranching enzymes. Rendleman JA Jr. **Biotechnol Appl Biochem** 1997 Aug;26 (Pt 1):51–61

Specificity of amylases and cyclodextrin-glucanotransferase in reactions with 2-deoxy-maltooligosaccharides. Evers B, et al. **Carbohydr Res** 1997 May 12;300(2):153–9

Some properties of a cyclomaltodextrin-glucanotransferase from Bacillus circulans DF 9 R type. Maréchal LR, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):659–64

The crystal structure of Escherichia coli maltodextrin phosphorylase provides an explanation for the activity without control in this basic archetype of a phosphorylase. Watson KA, et al. **EMBO J** 1997 Jan 2;16(1):1–14

Delineation of the catalytic domain of Clostridium difficile toxin B-10463 to an enzymatically active N-terminal 467 amino acid fragment. Wagenknecht-Wiesner A, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):109–16

Cloning and sequencing of a gene coding for a novel dextransucrase from Leuconostoc mesenteroides NRRL B-1299 synthesizing only alpha (1-6) and alpha (1-3) linkages. Monchois V, et al. **Gene** 1996 Dec 5; 182(1-2):23–32

One-pot enzymatic synthesis of the Gal alpha 1-->3Gal beta 1-->4GlcNAc sequence with in situ UDP-Gal regeneration. Hokke CH, et al. **Glycoconj J** 1996 Aug; 13(4):687–92

Structural analysis of the subunits of the trehalose-6-phosphate synthase/phosphatase complex in Saccharomyces cerevisiae and their function during heat shock. Reinders A, et al. **Mol Microbiol** 1997 May; 24(4):687–95

Oligosaccharide substrate binding in Escherichia coli maltodextrin phosphorylase. O'Reilly M, et al. **Nat Struct Biol** 1997 May;4(5):405–12

[Comparative analysis of primary structures of yeast dolicholphosphomannosyl- and dolichophosphoglucosyl synthetases and other dolichol-conjugated enzymes] Shpakov AO, et al. **Ukr Biokhim Zh** 1996 Jul-Aug; 68(4):64–75 (Eng. Abstr.) **(Rus)**

GENETICS

Deletions in the carboxyl-terminal region of Streptococcus gordonii glucosyltransferase affect cell-associated enzyme activity and sucrose-associated accumulation of growing cells. Vickerman MM, et al. **Appl Environ Microbiol** 1997 May;63(5):1667–73

Trapping and characterization of the reaction intermediate in cyclodextrin glycosyltransferase by use of activated substrates and a mutant enzyme. Mosi R, et al. **Biochemistry** 1997 Aug 12;36(32):9927–34

Trehalose accumulation in mutants of Saccharomyces cerevisiae deleted in the UDPG-dependent trehalose synthase-phosphatase complex. Ferreira JC, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1-2):40–50

Cloning and sequencing of trehalose synthase gene from Thermus aquaticus ATCC33923. Tsusaki K, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):28–32

Characterization of a lipopeptide-resistant strain of Candida albicans. Frost DJ, et al. **Can J Microbiol** 1997 Feb; 43(2):122–8

Nucleotide sequence analysis of the Streptococcus gordonii glucosyltransferase gene, gtfG. Vickerman MM, et al. **DNA Seq** 1997;7(2):83–95

Effect of hydrostatic pressure of a mutant of Saccharomyces cerevisiae deleted in the trehalose-6-phosphate synthase gene. Fernandes PM, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):17–21

Regulation of cyclodextrin glucanotransferase synthesis in Bacillus ohbensis. Nishida T, et al. **FEMS Microbiol Lett** 1997 Apr 15;149(2):221–6

Cloning and characterization of full-length cDNA encoding sucrose phosphate synthase from faba bean. Heim U, et al. **Gene** 1996 Oct 31;178(1-2):201–3

The human gene CGT encoding the UDP-galactose ceramide galactosyl transferase (cerebroside synthase): cloning, characterization, and assignment to human chromosome 4, band q26. Bosio A, et al. **Genomics** 1996 May 15;34(1):69–75

Isolation of the ALG6 locus of Saccharomyces cerevisiae required for glucosylation in the N-linked glycosylation pathway. Reiss G, et al. **Glycobiology** 1996 Jul;6(5):493–8

Changes in the carboxyl-terminal repeat region affect extracellular activity and glucan products of Streptococcus gordonii glucosyltransferase. Vickerman MM, et al. **Infect Immun** 1996 Dec;64(12):5117–28

Antigenic variation in Neisseria gonorrhoeae: production of multiple lipooligosaccharides. Burch CL, et al. **J Bacteriol** 1997 Feb;179(3):982–6

Cloning and characterization of the gene for amylosucrase from Neisseria polysaccharea: production of a linear alpha-1,4-glucan. Büttcher V, et al. **J Bacteriol** 1997 May; 179(10):3324–30

Two glycosyltransferase genes, lgtF and rfaK, constitute the lipooligosaccharide ice (inner core extension) biosynthesis operon of Neisseria meningitidis. Kahler CM, et al. **J Bacteriol** 1996 Dec;178(23):6677–84

Cloning of the Candida albicans homolog of Saccharomyces cerevisiae GSC1/FKS1 and its involvement in beta-1,3-glucan synthesis. Mio T, et al. **J Bacteriol** 1997 Jul;179(13):4096–105

Rgg is a positive transcriptional regulator of the Streptococcus gordonii gtfG gene. Sulavik MC, et al. **J Bacteriol** 1996 Oct;178(19):5826–30

Identification of essential amino acids in the Streptococcus mutans glucosyltransferases. Tsumori H, et al. **J Bacteriol** 1997 Jun;179(11):3391–6

The filamentous fungus Aspergillus niger contains two "differentially regulated" trehalose-6-phosphate synthase-encoding genes, tpsA and tpsB. Wolschek MF, et al. **J Biol Chem** 1997 Jan 31;272(5):2729–35

Characterization of the ecdysteroid UDP-glucosyltransferase gene from Mamestra brassicae nucleopolyhedrovirus. Clarke EE, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2865–71

Transcriptional analysis and promoter activity of the Spodoptera littoralis multicapsid nucleopolyhedrovirus ecdysteroid UDP-glucosyltransferase gene. Toister-Achituv M, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):487–91

Phenotype in Candida albicans of a disruption of the BGL2 gene encoding a 1,3-beta-glucosyltransferase. Sarthy AV, et al. **Microbiology** 1997 Feb;143 (Pt 2):367–76

Cloning and molecular analysis of cDNAs encoding three sucrose phosphate synthase isoforms from a citrus fruit (Citrus unshiu Marc.). Komatsu A, et al. **Mol Gen Genet** 1996 Sep 13;252(3):346–51

Regulation of genes encoding subunits of the trehalose synthase complex in Saccharomyces cerevisiae: novel variations of STRE-mediated transcription control? Winderickx J, et al. **Mol Gen Genet** 1996 Sep 25; 252(4):470–82

Molecular and biochemical characterization of three anthocyanin synthetic enzymes from Gentiana triflora. Tanaka Y, et al. **Plant Cell Physiol** 1996 Jul;37(5):711–6

Cloning and expression of solanidine UDP-glucose glucosyltransferase from potato. Moehs CP, et al. **Plant J** 1997 Feb;11(2):227–36

Expression cloning of a cDNA for human ceramide glucosyltransferase that catalyzes the first glycosylation step of glycosphingolipid synthesis. Ichikawa S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12654

Characterization of the ecdysteroid UDP-glucosyltransferase gene of a single nucleocapsid nucleopolyhedrovirus of Buzura suppressaria. Hu ZH, et al. **Virus Res** 1997 Jan; 47(1):91–7

IMMUNOLOGY

Evaluation of three individual glucosyltransferases produced by Streptococcus mutans using monoclonal antibodies. Tomita Y, et al. **FEMS Microbiol Lett** 1996 Dec 15; 145(3):427–32

Antigenicity of a synthetic peptide from glucosyltransferases of Streptococcus mutans in humans. Chia JS, et al. **Infect Immun** 1997 Mar;65(3):1126–30

ISOLATION & PURIFICATION

UDP-glucose:solasodine glucosyltransferase from eggplant (Solanum melongena L.) leaves: partial purification and characterization. Pączkowski C, et al. **Acta Biochim Pol** 1997;44(1):43–53

Purification and properties of UDP-glucose: diosgenin/tigogenin glucosyltransferase from Solanum melongena leaves. Pączkowski C, et al. **Adv Exp Med Biol** 1996;404:37–46

Production and stabilization of pure maltose phosphorylase from Lactobacillus brevis for sensing inorganic phosphate. Hüwel S, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:701–6

Isolation of two strains (S-R type) of Bacillus circulans and purification of a cyclomaltodextrin-glucanotransferase. Ferrarotti SA, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):653–7

Purification and properties of a cellobiose phosphorylase (CepA) and a cellodextrin phosphorylase (CepB) from the cellulolytic thermophile Clostridium stercorarium. Reichenbecher M, et al. **Eur J Biochem** 1997 Jul 1; 247(1):262–7

Partial purification of (1,3)-beta-glucan synthase from Candida albicans. Frost D, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):255–61

Biosynthesis of teichuronic acid in the bacterial cell wall. Purification and characterization of the glucosyltransferase of Micrococcus luteus. Deng L, et al. **J Biol Chem** 1997 Jan 3;272(1):479–85

[Preparation of beta-1,3-glucan synthase and its application to the screening of antifungal antibiotics] Zheng D, et al. **Wei Sheng Wu Hsueh Pao** 1996 Feb;36(1):73–5 (Eng. Abstr.) **(Chi)**

METABOLISM

Deletions in the carboxyl-terminal region of Streptococcus gordonii glucosyltransferase affect cell-associated enzyme activity and sucrose-associated accumulation of growing cells. Vickerman MM, et al. **Appl Environ Microbiol** 1997 May;63(5):1667–73

Ceramide glucosylation in bean hypocotyl microsomes: evidence that steryl glucoside serves as glucose donor. Lynch DV, et al. **Arch Biochem Biophys** 1997 Apr 15; 340(2):311–6

Kinetic properties of glucosyltransferase adsorbed onto saliva-coated hydroxyapatite. Steinberg D, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):553–66

A regulatory role for TSL1 on trehalose synthase activity. Ferreira JC, et al. **Biochem Mol Biol Int** 1996 Feb; 38(2):259–65

Design and chemoenzymatic synthesis of thiooligosaccharide inhibitors of 1,3:1,4-beta-D-glucanases. Moreau V, et al. **Bioorg Med Chem** 1996 Nov;4(11):1849–55

The use of UDP-Glc:glycoprotein glucosyltransferase for radiolabeling protein-linked high mannose-type oligosaccharides. Metzner SI, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):631–5

Activation of sucrose-phosphate synthase by a protein factor/sucrose-phosphate phosphatase. Salerno GL, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):665–72

The interaction of the UDP-GLC:glycoprotein glucosyltransferase with the acceptor glycoprotein. Sousa MC, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;

42(5):609–16

Rho 1 GTPase activates the (1–3)beta–D–glucan synthase and is involved in Schizosaccharomyces pombe morphogenesis. Arellano M, et al. **EMBO J** 1996 Sep 2; 15(17):4584–91

Seryl–phosphorylation of soybean nodule sucrose synthase (nodulin–100) by a Ca2+–dependent protein kinase. Zhang XQ, et al. **FEBS Lett** 1997 Jun 30;410(2–3):126–30

Purification of rabbit skeletal muscle proteoglycogen: studies on the glucosyltransferase activity of polysaccharide–free and –bound glycogenin. Carrizo ME, et al. **Glycobiology** 1997 Jun;7(4):571–8

Trehalose–P synthase of mycobacteria: its substrate specificity is affected by polyanions. Pan YT, et al. **Glycobiology** 1996 Jun;6(4):453–61

Studies of the action of ceramide–like substances (D– and L–PDMP) on sphingolipid glycosyltransferases and purified lactosylceramide synthase. Chatterjee S, et al. **Glycoconj J** 1996 Jun;13(3):481–6

Intracellular association between UDP–glucose:glycoprotein glucosyltransferase and an incompletely folded variant of alpha1–antitrypsin. Choudhury P, et al. **J Biol Chem** 1997 May 16;272(20):13446–51

Localization of the glucosyltransferase activity of Clostridium difficile toxin B to the N–terminal part of the holotoxin. Hofmann F, et al. **J Biol Chem** 1997 Apr 25; 272(17):11074–8

Lipopolysaccharide core glycosylation in Rhizobium leguminosarum. An unusual mannosyl transferase resembling the heptosyl transferase I of Escherichia coli. Kadrmas JL, et al. **J Biol Chem** 1996 Dec 13; 271(50):32119–25

Lipid dependence and basic kinetics of the purified 1,2–diacylglycerol 3–glucosyltransferase from membranes of Acholeplasma laidlawii. Karlsson OP, et al. **J Biol Chem** 1997 Jan 10;272(2):929–36

Initiation of glycogen syn:thesis in yeast. Requirement of multiple tyrosine residues for function of the self–glucosylating Glg proteins in vivo. Mu J, et al. **J Biol Chem** 1996 Oct 25;271(43):26554–60

The raw starch binding domain of cyclodextrin glycosyltransferase from Bacillus circulans strain 251. Penninga D, et al. **J Biol Chem** 1996 Dec 20; 271(51):32777–84

Cyclodextrins are not the major cyclic alpha–1,4–glucans produced by the initial action of cyclodextrin glucanotransferase on amylose. Terada Y, et al. **J Biol Chem** 1997 Jun 20;272(25):15729–33

Identification of new members of the lytic transglycosylase family in Haemophilus influenzae and Escherichia coli. Dijkstra AJ, et al. **Microb Drug Resist** 1996 Spring; 2(1):141–5

Evidence for plasma membrane–associated forms of sucrose synthase in maize. Carlson SJ, et al. **Mol Gen Genet** 1996 Sep 13;252(3):303–10

Phosphorylation of serine–15 of maize leaf sucrose synthase. Occurrence in vivo and possible regulatory significance. Huber SC, et al. **Plant Physiol** 1996 Oct;112(2):793–802

Activation of pollen tube callose synthase by detergents. Evidence for different mechanisms of action. Li H, et al. **Plant Physiol** 1997 Aug;114(4):1255–65

Higher plants contain homologs of the bacterial celA genes encoding the catalytic subunit of cellulose synthase [see comments] Pear JR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12637–42. Comment in: Proc Natl Acad Sci U S A 1996 Oct 29;93(22):12082–5.

Sucrose biosynthesis in a prokaryotic organism: Presence of two sucrose–phosphate synthases in Anabaena with remarkable differences compared with the plant enzymes. Porchia AC, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13600–4

Activation of E350A mutant maltodextrin phosphorylase by exogenously added acetate. Drueckes P, et al. **Protein Eng** 1996 Aug;9(8):701–5

UDP–glucose: flavonol 7–O–glucosyltransferase activity in flower extracts of Chrysanthemum segetum. Stich K, et al. **Z Naturforsch [C]** 1997 Mar–Apr;52(3–4):153–8

PHYSIOLOGY

Effects of antibodies against cell surface protein antigen PAc–glucosyltransferase fusion proteins on glucan synthesis and cell adhesion of Streptococcus mutans. Yu H, et al. **Infect Immun** 1997 Jun;65(6):2292–8

GLUCURONATES

Application of long–circulating liposomes to cancer photodynamic therapy. Oku N, et al. **Biol Pharm Bull** 1997 Jun;20(6):670–3

ANALYSIS

The use of 2–deoxy–2–trichloroacetamido–D–glucopyranose derivatives in syntheses of hyaluronic acid–related tetra–, hexa–, and octa–saccharides having a methyl beta–D–glucopyranosiduronic acid at the reducing end. Blatter G, et al. **Carbohydr Res** 1996 Jul 19;288:109–25

NMR characterization of a 4–O–methyl–beta–D–glucuronic acid–containing rhamnogalacturonan from yellow mustard (Sinapis alba L.) mucilage. Cui W, et al. **Carbohydr Res** 1996 Oct 4;292:173–83

Bioactivation of a toxic metabolite of valproic acid, (E)–2–propyl–2,4–pentadienoic acid, via glucuronidation. LC/MS/MS characterization of the GSH–glucuronide diconjugates. Tang W, et al. **Chem Res Toxicol** 1996 Mar; 9(2):517–26

Novel sulfated oligosaccharides containing 3–O–sulfated glucuronic acid from king crab cartilage chondroitin sulfate K. Unexpected degradation by chondroitinase ABC. Sugahara K, et al. **J Biol Chem** 1996 Oct 25; 271(43):26745–54

Direct monitoring of enzyme reactions using micellar electrokinetic capillary chromatography. Optimisation of drug glucuronide and sulfate conjugate hydrolysis. Taylor MR, et al. **J Chromatogr A** 1997 Apr 18;768(1):67–71

Characterization of monoglucuronides of vitamin D2 and 25–hydroxyvitamin D2 in rat bile using high–performance liquid chromatography–atmospheric pressure chemical ionization mass spectrometry. Shimada K, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1–2):348–54

Development of a simple liquid chromatographic method for the separation of mixtures of positional isomers and anomers of synthetic 2–, 3– and 4–fluorobenzoic acid glucuronides formed via acyl migration reactions. Sidelmann U, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):113–22

Application of electrospray mass spectrometry in the identification of intact glucuronide and suplate conjugates of clozapine in rat. Zhang GO, et al. **Xenobiotica** 1996 May; 26(5):541–50

BLOOD

Levels of plasma C19 steroids and 5 alpha–reduced C19 steroid glucuronides in primates, rodents, and domestic animals. Guillemette C, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E348–53

Indoxyl–beta–D–glucuronide and 3–indoxyl sulfate in plasma of hemodialysis patients. Agatsuma S, et al. **Clin Nephrol** 1996 Apr;45(4):250–6

Androstanediol glucuronide in patients with pancreatic cancer and in those with chronic pancreatitis. Janša R, et al. **Horm Metab Res** 1996 Aug;28(8):381–3

Stereoselective high–performance liquid chromatographic analysis of ketoprofen and its acyl glucuronides in chronic renal insufficiency. Grubb NG, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):237–44

Direct high–performance liquid chromatography determination of diastereomeric oxprenolol glucuronides. Laethem ME, et al. **J Chromatogr B Biomed Appl** 1996 Jan 26;675(2):251–5

Accumulation of indoxyl–beta–D–glucuronide in uremic serum: suppression of its production by oral sorbent and efficient removal by hemodialysis. Niwa T, et al. **Nephron** 1996;74(1):72–8

CHEMICAL SYNTHESIS

Synthesis and iodine–125 labelling of glucuronide compounds for combined chemo– and radiotherapy of cancer. Unak T, et al. **Appl Radiat Isot** 1997 Jun;48(6):777–83

Facile synthesis of [16,16,17–2H3]–testosterone, –epitestosterone and their glucuronides and sulfates. Sanaullah, et al. **J Steroid Biochem Mol Biol** 1996 May; 58(2):225–34

CHEMISTRY

Mercuric salt–catalyzed removal of unsaturated glucuronic acid from chondroitinase–treated proteochondroitin sulfate. Sundaram L, et al. **Arch Biochem Biophys** 1997 Feb 15; 338(2):213–9

Structure of the O–specific polysaccharide of the bacterium Providencia alcalifaciens O23 containing a novel component: an amide of D–glucuronic acid with N epsilon–(1–carboxyethyl)lysine. Kocharova NA, et al. **Biochemistry (Mosc)** 1997 May;62(5):501–8

Separation and characterization of monoglucuronides of vitamin D(3) and25–hydroxyvitamin D(3) in rat bile by high–performance liquid chromatography. Shimada K, et al. **Biol Pharm Bull** 1996 Apr;19(4):491–4

A spectroscopic study of the interaction of the VO2+ cation with the two components of chondroitin sulfate. Etcheverry SB, et al. **Biol Trace Elem Res** 1996 Feb; 51(2):169–76

Synthesis and biological activity of beta–glucuronyl carbamate–based prodrugs of paclitaxel as potential candidates for ADEPT. de Bont DB, et al. **Bioorg Med Chem** 1997 Feb;5(2):405–14

Structure determination of a novel uronic acid residue isolated from the exopolysaccharide produced by a bacterium originating from deep sea hydrothermal vents. Dubreucq G, et al. **Carbohydr Res** 1996 Sep 2;290(2):175–81

A fluorogenic substrate for beta–glucuronidase: applications in fluorometric, polyacrylamide gel and histochemical assays. Zhou M, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):197–205

Direct detection of the internal acyl migration reactions of benzoic acid 1–O–acylglucuronide by 13C–labeling and nuclear magnetic resonance spectroscopy. Akira K, et al. **J Pharmacol Toxicol Methods** 1997 Jun;37(4):237–43

DIAGNOSTIC USE

[Evaluation of a new disk containing indoxyl–beta–D–glucuronide for rapid identification of Escherichia coli] Fujita S, et al. **Rinsho Byori** 1996 Sep; 44(9):895–8 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Ion–pair high–performance liquid chromatographic separation of two thyroxine glucuronides formed by rat liver microsomes. Jemnitz K, et al. **J Chromatogr B Biomed Appl** 1996 Jun 7;681(2):385–9

METABOLISM

Dose–dependent intestinal and hepatic glucuronidation and sulfatation of P–nitrophenol in the rat. Rafiei A, et al. **Acta Physiol Hung** 1996;84(3):333–5

Acyl glucuronides: covalent binding and its potential relevance. Spahn–Langguth H, et al. **Adv Exp Med Biol** 1996;387:313–28 (61 ref.)

Fermentation of biomass–derived glucuronic acid by pet expressing recombinants of E. coli B. Lawford HG, et al. **Appl Biochem Biotechnol** 1997 Spring;63–65:221–41

Characterization of rabbit UDP–glucuronosyltransferase UGT1A7: tertiary amine glucuronidation is catalyzed by UGT1A7 and UGT1A4. Bruck M, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):357–64

MOAT4, a novel multispecific organic–anion transporter for glucuronides and mercapturates in mouse L1210 cells and human erythrocytes. Saxena M, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):273–81

Glucuronate metabolism in the mammalian eye lens—origin of xylitol. Goode D, et al. **Biochem Soc Trans** 1996 Aug; 24(3):453S

In vitro glucuronidation of 25–hydroxyvitamin D3 and its pro–form. Shimada K, et al. **Biol Pharm Bull** 1997 Jun; 20(6):596–600

In vivo trafficking of long–circulating liposomes in tumour–bearing mice determined by positron emission tomography. Oku N, et al. **Biopharm Drug Dispos** 1996 Jul;17(5):435–41

Modulation of glucuronidation of SN–38, the active metabolite of irinotecan, by valproic acid and phenobarbital. Gupta E, et al. **Cancer Chemother Pharmacol** 1997;39(5):440–4

Effects of phenobarbital and 3–methylcholanthrene induction on the formation of three glucuronide metabolites of 4–(methylnitrosamino)–1–(3–pyridyl)–1–butanone, NNK. Murphy SE, et al. **Chem Biol Interact** 1997 Mar 14; 103(3):153–66

Bioactivation of a toxic metabolite of valproic acid, (E)–2–propyl–2,4–pentadienoic acid, via glucuronidation. LC/MS/MS characterization of the GSH–glucuronide diconjugates. Tang W, et al. **Chem Res Toxicol** 1996 Mar; 9(2):517–26

Vesico–hepato–renal cycling of acidic drugs via their reactive acyl glucuronide metabolites? Studies with diflunisal in rats. Dickinson RG, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):665–8

Glucuronidation of thyroxine and 3,5,3'–triiodothyronine by hepatic microsomes in rainbow trout, Oncorhynchus mykiss. Finnson KW, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):193–9

Biological activity of N–(4–hydroxyphenyl) retinamide–O–glucuronide in corneal and conjunctival cells of rabbits and humans [published erratum appears in Curr Eye Res 1996 Feb;15(2):following table of contents] Ubels JL, et al. **Curr Eye Res** 1995 Dec;14(12):1115–24

Defects in glucuronate biosynthesis disrupt Wingless signaling in Drosophila. Haerry TE, et al. **Development** 1997 Aug;124(16):3055–64

Biphasic kinetics of quaternary ammonium glucuronide formation from amitriptyline and diphenhydramine in human liver microsomes. Breyer–Pfaff U, et al. **Drug Metab Dispos** 1997 Mar;25(3):340–5

Interaction of human serum albumin with the electrophilic metabolite 1–O–gemfibrozil–beta–D–glucuronide. Sallustio BC, et al. **Drug Metab Dispos** 1997 Jan;25(1):55–60

Disposition of gemfibrozil and gemfibrozil acyl glucuronide in the rat isolated perfused liver. Sallustio BC, et al. **Drug Metab Dispos** 1996 Sep;24(9):984–9

Identification of beta–glucuronidase–resistant diastereomeric glucuronides of 3–hydroxy–3–methyloxindole formed during 3–methylindole metabolism in goats. Smith DJ, et al. **Drug Metab Dispos** 1996 Jan;24(1):119–25

Enterohepatic recirculation of trichloroethanol glucuronide as a significant source of trichloroacetic acid. Metabolites of trichloroethylene. Stenner RD, et al. **Drug Metab Dispos** 1997 May;25(5):529–35

Sequestered endoplasmic reticulum space for sequential metabolism of salicylamide. Coupling of hydroxylation and glucuronidation. Tirona RG, et al. **Drug Metab Dispos** 1996 Aug;24(8):821–33

Cholestatic properties and hepatic transport of steroid glucuronides. Vore M, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):183–203 (49 ref.)

Genetic and environmental factors associated with variation of human xenobiotic glucuronidation and sulfation. Burchell B, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:739–47 (95 ref.)

Metabolism of 4–[1–(2–fluoro–4–biphenylyl)ethyl]–2–methylaminothiazoie (SM–8849) in rats. Yabuki M, et al. **Eur J Drug Metab Pharmacokinet** 1997 Jan–Mar; 22(1):25–33

GLUCURONATES

Accumulation of xylitol in the mammalian lens is related to glucuronate metabolism. Goode D, et al. **FEBS Lett** 1996 Oct 21;395(2-3):174-8

The metabolic production of 4-methylumbelliferone and its beta-D-glucuronide from the corresponding beta-D-xyloside by fibroblasts in culture. Zaidi KF, et al. **FEBS Lett** 1981 Nov 2;134(1):91-5

Hepatic regeneration is associated with preservation of microsomal glucuronidation. Zakko WF, et al. **Hepatology** 1996 Nov;24(5):1250-5

Characterization of a sulfoglucuronyl carbohydrate binding protein in the developing nervous system. Nair SM, et al. **J Neurochem** 1997 Mar;68(3):1286-97

The utility of the bile-exteriorized rat as a source of reactive acyl glucuronides: studies with zomepirac. King AR, et al. **J Pharmacol Toxicol Methods** 1996 Nov;36(3):131-6

Conjugation-deconjugation cycling of diflunisal via beta-glucuronidase catalyzed hydrolysis of its acyl glucuronide in the rat. Brunelle FM, et al. **Life Sci** 1997; 60(22):2013-21

Glucuronidation metabolic kinetics of valproate in guinea pigs: nonlinear at clinical concentration levels. Yu HY, et al. **Pharm Res** 1996 Aug;13(8):1243-6

Effect of Glycyrrhiza glabra roots and glycyrrhizin on the glucuronidation in rats. Moon A, et al. **Planta Med** 1997 Apr;63(2):115-9

In vitro glucuronidation of D-23129, a new anticonvulsant, by human liver microsomes and liver slices. McNeilly PJ, et al. **Xenobiotica** 1997 May;27(5):431-41

Synthesis, isolation and identification of glucuronides and mercapturic acids of a novel antiparasitic agent, licochalcone A. Nadelmann L, et al. **Xenobiotica** 1997 Jul; 27(7):667-80

PHARMACOKINETICS

Postmortem distribution pattern of morphine and morphine glucuronides in heroin overdose [see comments] Skopp G, et al. **Int J Legal Med** 1996;109(3):118-24. Comment in: Int J Legal Med 1997;110(2):114-6.

Carrier-mediated active transport of the glucuronide and sulfate of 6-hydroxy-5,7-dimethyl-2-methylamino-4-(3-pyridylmethyl) benzothiazole (E3040) into rat liver: quantitative comparison of permeability in isolated hepatocytes, perfused liver and liver in vivo. Takenaka O, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):948-58

Evaluation of the major metabolites of raloxifene as modulators of tissue selectivity. Dodge JA, et al. **J Steroid Biochem Mol Biol** 1997 Apr;61(1-2):97-106

Mycophenolate mofetil in patients with acute renal failure: evidence of metabolite (MPAG) accumulation and removal by dialysis. Zanker B, et al. **Transpl Int** 1996;9 Suppl 1:S308-10

PHARMACOLOGY

Inhibitory mechanisms of oleanolic acid 3-O-monodesmosides on glucose absorption in rats. Matsuda H, et al. **Biol Pharm Bull** 1997 Jun;20(6):717-9

THERAPEUTIC USE

Synthesis and iodine-125 labelling of glucuronide compounds for combined chemo- and radiotherapy of cancer. Unak T, et al. **Appl Radiat Isot** 1997 Jun;48(6):777-83

TOXICITY

Cholestatic properties and hepatic transport of steroid glucuronides. Vore M, et al. **Drug Metab Rev** 1997 Feb-May;29(1-2):183-203 (49 ref.)

URINE

Direct characterization of drug glucuronide isomers in human urine by HPLC-NMR spectroscopy: application to the positional isomers of 6,11-dihydro-11-oxodibenz[b,e]oxepin-2-acetic acid glucuronide. Lenz EM, et al. **Anal Chem** 1996 Sep 1; 68(17):2832-7

Identification of glucuronide-conjugated hydroxylated fatty acids in the urine of children with generalized peroxisomal disorder. Street JM, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:768-9

Separation and detection of bile acid 3-glucuronides in human urine by liquid chromatography/electrospray ionization-mass spectrometry. Ikegawa S, et al. **Biomed Chromatogr** 1996 Nov-Dec;10(6):313-7

Analysis of human urine for pyridine-N-oxide metabolites of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a tobacco-specific lung carcinogen. Carmella SG, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Feb;6(2):113-20

Does creatinine adjustment of urinary pregnanediol glucuronide reduce or introduce measurement error? Zacur H, et al. **Gynecol Endocrinol** 1997 Feb;11(1):29-33

Plasma and urinary markers of oral testosterone misuse by healthy men in presence of masking epitestosterone administration. Dehennin L, et al. **Int J Sports Med** 1996 Jul;17(5):315-9

Direct measurement of steroid sulfate and glucuronide conjugates with high-performance liquid chromatography-mass spectrometry. Bowers LD, et al. **J Chromatogr B Biomed Appl** 1996 Dec 6;687(1):61-8

Combined profile of androgen glucuro- and sulfoconjugates in post-competition urine of sportsmen: a simple screening procedure using gas chromatography-mass spectrometry. Dehennin L, et al. **J Chromatogr B Biomed Appl** 1996 Dec 6;687(1):85-91

Quantification of retinoyl-beta-glucuronides in rat urine by reversed-phase high-performance liquid chromatography with ultraviolet detection. Li S, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30;683(2):155-62

Stimulation of bile acid 6 alpha-hydroxylation by rifampin. Wietholtz H, et al. **J Hepatol** 1996 Jun;24(6):713-8

HPLC analysis for amobarbital N-glycosides in urine. Nandi V, et al. **J Pharm Biomed Anal** 1997 May;15(8):1187-95

Quantitative structure-metabolism relationships for substituted benzoic acids in the rabbit: prediction of urinary excretion of glycine and glucuronide conjugates. Cupid BC, et al. **Xenobiotica** 1996 Feb;26(2):157-76

[Enantioselectivity in the excretion of glucuronides of carprofen in man, dogs and horses] Delatour P, et al. **Bull Acad Natl Med** 1996 Oct;180(7):1565-72 (Eng. Abstr.) **(Fre)**

GLUCURONIDASE

ANALYSIS

Histochemistry of therapeutically relevant enzymes in human tumours transplanted into severe combined immunodeficient (SCID) mice: nitric oxide synthase-associated diaphorase, beta-D-glucuronidase and non-specific alkaline phosphatase. Schumacher U, et al. **Acta Histochem** 1996 Nov;98(4):381-7

Is beta-glucuronidase a contributory factor in early indirect hyperbilirubinaemia? [letter; comment] Erdem G, et al. **Acta Paediatr** 1997 Jan;86(1):120. Comment on: Acta Paediatr 1995 Mar;84(3):237-9.

Renal beta-glucuronidase activity is a bioassay of serum testosterone levels in rats. Malarvizhi D, et al. **Indian J Exp Biol** 1996 Jun;34(6):582-3

A fluorogenic substrate for beta-glucuronidase: applications in fluorometric, polyacrylamide gel and histochemical assays. Zhou M, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):197-205

High-performance liquid chromatographic quantification of 4-methylumbelliferyl-beta-D-glucuronide as a probe for human beta-glucuronidase activity in tissue homogenates. Sperker B, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):181-4

Interleukin-8 and beta-glucuronidase in gingival crevicular fluid. Chung RM, et al. **J Clin Periodontol** 1997 Mar; 24(3):146-52

The effect of tetracycline fiber therapy on beta-glucuronidase and interleukin-1 beta in crevicular fluid. Lamster IB, et al. **J Clin Periodontol** 1996 Sep;23(9):816-22

Reflections on the development of a host-response diagnostic test for periodontal disease. Lamster IB, et al. **Technol Health Care** 1996 Sep;4(3):331-8

ANTAGONISTS & INHIBITORS

Inhibition of beta-glucuronidase by casein hydrolysate formula. Gourley GR, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):267-72

BIOSYNTHESIS

Enhanced translation of rat beta-glucuronidase cDNA is conferred by 155-bp segment of internal coding sequence. Islam MR, et al. **Arch Biochem Biophys** 1996 Sep 15; 333(2):385-93

Bioactivation of a toxic metabolite of valproic acid, (E)-2-propyl-2,4-pentadienoic acid, via glucuronidation. LC/MS/MS characterization of the GSH-glucuronide diconjugates. Tang W, et al. **Chem Res Toxicol** 1996 Mar; 9(2):517-26

Promoter sequences from two different Brassica napus tapetal oleosin-like genes direct tapetal expression of beta-glucuronidase in transgenic Brassica plants. Hong HP, et al. **Plant Mol Biol** 1997 Jun;34(3):549-55

[Evaluation of the usefulness of tests for production of Beta-D-glucuronidase and propylene glycol utilization for the differentiation of enterobacteriaceae rods] Kalużewski S, et al. **Med Dosw Mikrobiol** 1995;47(3-4):155-68 (Eng. Abstr.) **(Pol)**

BLOOD

Is beta-glucuronidase a contributory factor in early indirect hyperbilirubinaemia? [letter; comment] Erdem G, et al. **Acta Paediatr** 1997 Jan;86(1):120. Comment on: Acta Paediatr 1995 Mar;84(3):237-9.

Variation in serum arylesterase, beta-glucuronidase, cathepsin L and plasminogen activators during pregnancy. Carpintero A, et al. **Clin Chim Acta** 1996 Nov 29; 255(2):153-64

Leakage of protein into lungs of preterm ventilated rabbits is correlated with activation of clotting, complement, and polymorphonuclear leukocytes in plasma. Brus F, et al. **Pediatr Res** 1996 Jun;39(6):958-65

CHEMISTRY

Characterization of beta-glucuronidase in the retinal pigment epithelium. Ray J, et al. **Curr Eye Res** 1997 Feb; 16(2):131-43

Identification of urinary benzodiazepines and their metabolites: comparison of automated HPLC and GC-MS after immunoassay screening of clinical specimens. Valentine JL, et al. **J Anal Toxicol** 1996 Oct;20(6):416-24

Enzymatic hydrolysis of the conjugate of vitamin D and related compounds. Shimada K, et al. **J Pharm Biomed Anal** 1997 Jun;15(9-10):1207-14

DEFICIENCY

Non-immune hydrops fetalis caused by beta-glucuronidase deficiency (mucopolysaccharidosis VII). Study of a family with 3 affected siblings. Van Dorpe J, et al. **Genet Couns** 1996;7(2):105-12

DIAGNOSTIC USE

Solid-phase extraction and on-disc derivatization of the major benzodiazepines in urine using enzyme hydrolysis and Toxi-Lab VC MP3 column. King JW, et al. **J Anal Toxicol** 1996 Jul-Aug;20(4):262-5

GENETICS

Enhanced translation of rat beta-glucuronidase cDNA is conferred by 155-bp segment of internal coding sequence. Islam MR, et al. **Arch Biochem Biophys** 1996 Sep 15; 333(2):385-93

gpt-gus fusion gene for selection and marker in recombinant poxviruses. Cao JX, et al. **Biotechniques** 1997 Feb; 22(2):276-8

Transient expression of the beta-glucuronidase gene after biolistic transformation of the anaerobic fungus Neocallimastix frontalis. Durand R, et al. **Curr Genet** 1997 Feb;31(2):158-61

Probing the limits of expression levels by varying promoter strength and plasmid copy number in Saccharomyces cerevisiae [published erratum appears in Gene 1997 Feb 20;186(1):149] Nacken V, et al. **Gene** 1996 Oct 10; 175(1-2):253-60

Amphotropic and ecotropic retroviral vector viruses transduce midgestational murine fetal liver cells in a dual-chambered cocultivation system. Casal ML, et al. **Gene Ther** 1997 Jan;4(1):39-44

Long-term secretion of therapeutic proteins from genetically modified skeletal muscles. Naffakh N, et al. **Hum Gene Ther** 1996 Jan;7(1):11-21

Molecular analysis of the beta-glucuronidase gene: novel mutations in mucopolysaccharidosis type VII and heterogeneity of the polyadenylation region. Vervoort R, et al. **Hum Genet** 1997 Apr;99(4):462-8

Glycosaminoglycan storage in cultured neonatal murine mucopolysaccharidosis type VII neuroglial cells and correction by beta-glucuronidase gene transfer. Taylor RM, et al. **J Neurochem** 1997 May;68(5):2079-85

Detection of beta-galactosidase and beta-glucuronidase using chemiluminescent reporter gene assays. Olesen CE, et al. **Methods Mol Biol** 1997;63:61-70

Transgenic grain legumes obtained by in planta electroporation-mediated gene transfer. Chowrira GM, et al. **Mol Biotechnol** 1996 Apr;5(2):85-96

Gene therapy for lysosomal storage disease: a no-brainer? Transplants of fibroblasts secreting high levels of beta-glucuronidase decrease lesions in the brains of mice with Sly syndrome, a lysosomal storage disease [news; comment] Sly WS, et al. **Nat Med** 1997 Jul;3(7):719-20. Comment on: Nat Med 1997 Jul;3(7):771-4.

Different sequences for 5'-untranslated leaders of nuclear genes for plastid proteins affect the expression of the beta-glucuronidase gene. Bolle C, et al. **Plant Mol Biol** 1996 Dec;32(5):861-8

Adenovirus-mediated gene transfer and expression of human beta-glucuronidase gene in the liver, spleen, and central nervous system in mucopolysaccharidosis type VII mice. Ohashi T, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1287-92

Transfer of the yeast salt tolerance gene HAL1 to Cucumis melo L. cultivars and in vitro evaluation of salt tolerance. Bordas M, et al. **Transgenic Res** 1997 Jan;6(1):41-50

IMMUNOLOGY

Improved characteristics of a human beta-glucuronidase-antibody conjugate after deglycosylation for use in antibody-directed enzyme prodrug therapy. Houba PH, et al. **Bioconjug Chem** 1996 Sep-Oct;7(5):606-11

METABOLISM

Affinity sites for beta-glucuronidase on the surface of human spermatozoa. Barbieri MA, et al. **Andrologia** 1996 Nov-Dec;28(6):327-33

Enhanced uptake of doxorubicin into bronchial carcinoma: beta-glucuronidase mediates release of doxorubicin from a glucuronide prodrug (HMR 1826) at the tumor site. Mürdter TE, et al. **Cancer Res** 1997 Jun 15;57(12):2440-5

Vesico-hepato-renal cycling of acidic drugs via their reactive acyl glucuronide metabolites? Studies with diflunisal in rats. Dickinson RG, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):665-8

Lysosomal enzymes in corneal storage media and corneal graft outcome. Wiffen SJ, et al. **Cornea** 1997 Mar; 16(2):169-76

Characterization of beta-glucuronidase in the retinal pigment epithelium. Ray J, et al. **Curr Eye Res** 1997 Feb;

16(2):131–43

Enzyme–generated intracellular fluorescence for single–cell reporter gene analysis utilizing Escherichia coli beta–glucuronidase. Lorincz M, et al. **Cytometry** 1996 Aug 1;24(4):321–9

Identification of beta–glucuronidase–resistant diastereomeric glucuronides of 3–hydroxy–3–methyloxindole formed during 3–methylindole metabolism in goats. Smith DJ, et al. **Drug Metab Dispos** 1996 Jan;24(1):119–25

Androgen regulation of molecular forms of beta–D–glucuronidase in the mouse epididymis: comparison with liver and kidney. Abou–Haila A, et al. **J Androl** 1996 May–Jun;17(3):194–207

Direct monitoring of enzyme reactions using micellar electrokinetic capillary chromatography. Optimisation of drug glucuronide and sulfate conjugate hydrolysis. Taylor MR, et al. **J Chromatogr A** 1997 Apr 18;768(1):67–71

Anticarcinogenic action of apple pectin on fecal enzyme activities and mucosal or portal prostaglandin E2 levels in experimental rat colon carcinogenesis. Tazawa K, et al. **J Exp Clin Cancer Res** 1997 Mar;16(1):33–8

Glycosaminoglycan storage in cultured neonatal murine mucopolysaccharidosis type VII neuroglial cells and correction by beta–glucuronidase gene transfer. Taylor RM, et al. **J Neurochem** 1997 May;68(5):2079–85

Fecal bacterial enzyme activities in infants increase with age and adoption of adult–type diet. Mykkänen H, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):312–6

Interindividual variability in expression and activity of human beta–glucuronidase in liver and kidney: consequences for drug metabolism. Sperker B, et al. **J Pharmacol Exp Ther** 1997 May;281(2):914–20

5alpha–reduction of norethisterone enhances its binding affinity for androgen receptors but diminishes its androgenic potency. Lemus AE, et al. **J Steroid Biochem Mol Biol** 1997 Jan;60(1–2):121–9

Conjugation–deconjugation cycling of diflunisal via beta–glucuronidase catalyzed hydrolysis of its acyl glucuronide in the rat. Brunelle FM, et al. **Life Sci** 1997; 60(22):2013–21

beta–Glucuronidase in common duct bile, methodological aspects, variation of pH optima and relation to gallstones. Osnes T, et al. **Scand J Clin Lab Invest** 1997 Jul; 57(4):307–15

[Low–dose doxycycline therapy: effect on crevicular fluid collagenase elastase and beta–glucuronidase activity in humans] Sha Y, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Sep; 30(5):289–91 **(Chi)**

PHARMACOKINETICS

Poly(ethylene glycol) modification of beta–glucuronidase–antibody conjugates for solid–tumor therapy by targeted activation of glucuronide prodrugs. Cheng TL, et al. **Cancer Immunol Immunother** 1997 Aug; 44(6):305–15

PHYSIOLOGY

The role of beta–glucuronidase in drug disposition and drug targeting in humans. Sperker B, et al. **Clin Pharmacokinet** 1997 Jul;33(1):18–31 (123 ref.)

SECRETION

The releasability of lysosomal enzymes from neutrophil leukocytes in patients with rheumatoid arthritis. Marinò I, et al. **Clin Exp Rheumatol** 1996 Jul–Aug;14(4):387–94

Decreased lysosomal storage in the adult MPS VII mouse brain in the vicinity of grafts of retroviral vector–corrected fibroblasts secreting high levels of beta–glucuronidase [see comments] Taylor RM, et al. **Nat Med** 1997 Jul;3(7):771–4 . Comment in: Nat Med 1997 Jul;3(7):719–20.

THERAPEUTIC USE

A double–blind, placebo–controlled study of preventive immunotherapy with E.P.D., in the treatment of seasonal allergic disease. Di Stanislao C, et al. **Allerg Immunol (Paris)** 1997 Feb;29(2):39–42

Murine mucopolysaccharidosis type VII: long term therapeutic effects of enzyme replacement and enzyme replacement followed by bone marrow transplantation. Sands MS, et al. **J Clin Invest** 1997 Apr 1;99(7):1596–605

Effects of enzyme–potentiated desensitization in the treatment of pollinosis: a double–blind placebo–controlled trial. Astarita C, et al. **J Investig Allergol Clin Immunol** 1996 Jul–Aug;6(4):248–55

Enzyme replacement with recombinant beta–glucuronidase in murine mucopolysaccharidosis type VII: impact of therapy during the first six weeks of life on subsequent lysosomal storage, growth, and survival. Vogler C, et al. **Pediatr Res** 1996 Jun;39(6):1050–4

URINE

Urinary beta–glucuronidase excretion in insulin–dependent diabetes mellitus: relation with diabetic nephropathy [letter] Rodríguez–Cuartero A, et al. **Clin Nephrol** 1997 Aug; 48(2):135–6

Some urinary enzymes in bilharziasis. el–Naggar MM, et al. **Int Urol Nephrol** 1996;28(2):167–73

GLUCURONIDES see **GLUCURONATES**

D–GLUCURONOLACTONE DEHYDROGENASE see **ALDEHYDE DEHYDROGENASE**

GLUCURONOSYLTRANSFERASE

Hyaluronan synthases. Weigel PH, et al. **J Biol Chem** 1997 May 30;272(22):13997–4000 (48 ref.)

ANTAGONISTS & INHIBITORS

Inhibition of UDP–glucuronosyltransferase activity by fatty acyl–CoA. Kinetic studies and structure–activity relationship. Yamashita A, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):561–70

BIOSYNTHESIS

Tissue–specific 2,3,7,8–tetrachlorodibenzo–p–dioxin–inducible expression of human UDP–glucuronosyltransferase UGT1A6. Münzel PA, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):205–10

UDP–glucuronyl transferase enzyme family in both human and Balb/c mouse lung. Conner CE, et al. **Biochem Soc Trans** 1997 May;25(2):181S

High induction of phenol UDP–glucuronosyltransferase in the kidney medulla of beta–naphthoflavone–treated rats. Yokota H, et al. **Biochim Biophys Acta** 1997 Aug 29; 1336(2):165–70

Induction of two UDP–glucuronosyltransferase isoforms sensitive to phenobarbital that are involved in morphine glucuronidation: production of isoform–selective antipeptide antibodies toward UGT1.1r and UGT2B1. Ishii Y, et al. **Drug Metab Dispos** 1997 Feb;25(2):163–7

Comparison of stably expressed rat UGT1.1 and UGT2B1 in the glucuronidation of opioid compounds. King CD, et al. **Drug Metab Dispos** 1997 Feb;25(2):251–5

Hepatic drug–metabolizing activities in rats after 14 days of oral administration of the human immunodeficiency virus–type 1 protease inhibitor ritonavir (ABT–538). Kumar GN, et al. **Drug Metab Dispos** 1996 May;24(5):615–7

The influence of age and some inducers on UDP–glucuronyltransferase activity. Plewka A, et al. **Exp Gerontol** 1997 May–Jun;32(3):305–13

Identification of a rat oltipraz–inducible UDP–glucuronosyltransferase (UGT1A7) with activity towards benzo(a)pyrene–7,8–dihydrodiol. Grove AD, et al. **J Biol Chem** 1997 Jan 17;272(3):1621–7

cDNA cloning of the mouse bilirubin/phenol family of UDP–glucuronosyltransferase (mUGTbr2–like). Chu Q, et al. **Pharm Res** 1997 May;14(5):662–6

Characterization of 1–hydroxypyrene as a novel marker substrate of 3–methylcholanthrene–inducible phenol UDP–glucuronosyltransferase(s). Luukkanen L, et al. **Pharmacol Toxicol** 1997 Mar;80(3):152–8

Cloning and functional expression of a novel glucuronyltransferase involved in the biosynthesis of the carbohydrate epitope HNK–1. Terayama K, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6093–8

Mechanism of thiazopyr–induced effects on thyroid hormone homeostasis in male Sprague–Dawley rats. Hotz KJ, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):133–42

CHEMISTRY

Photoaffinity labeling studies of the human recombinant UDP–glucuronosyltransferase, UGT1*6, with 5–azido–UDP–glucuronic acid. Battaglia E, et al. **Drug Metab Dispos** 1997 Apr;25(4):406–11

Arginine 52 and histidine 54 located in a conserved amino–terminal hydrophobic region (LX2–R52–G–H54–X3–V–L) are important amino acids for the functional and structural integrity of the human liver UDP–glucuronosyltransferase UGT1*6. Senay C, et al. **Mol Pharmacol** 1997 Mar;51(3):406–13

DEFICIENCY

Long term correction of bilirubin–UDP–glucuronosyltransferase deficiency in Gunn rats by administration of a recombinant adenovirus during the neonatal period. Takahashi M, et al. **J Biol Chem** 1996 Oct 25;271(43):26536–42

Cell and gene therapy for inherited deficiency of bilirubin glucuronidation. Kim BH, et al. **J Perinatol** 1996 May–Jun; 16(3 Pt 2):S67–72 (39 ref.)

DRUG EFFECTS

Inhibition of glucuronidation by an acyl–CoA–mediated indirect mechanism. Csala M, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1127–31

Inhibition of UDP–glucuronyltransferase activity in rat liver microsomes by pyrimidine derivatives. Naydenova Z, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1995 Nov;112(3):321–5

[The effect of heparin on the activity of the mono–oxygenase glucuronyl– and glutathione transferase systems in ultrasonic damage to the rat liver] Eismont KA, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):42–4 (Eng. Abstr.) **(Rus)**

GENETICS

Genetic defects at the UGT1 locus associated with Crigler–Najjar type I disease, including a prenatal diagnosis. Ciotti M, et al. **Am J Med Genet** 1997 Jan 20; 68(2):173–8

Coding sequence of a hyaluronan synthase homologue expressed during expansion of the mouse cumulus–oocyte complex. Fülöp C, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):261–6

Extrahepatic expression of NAD(P)H:menadione oxidoreductase, UDP glucuronosyltransferase–1A6, microsomal aldehyde dehydrogenase, and hepatic nuclear factor–1 alpha mRNAs in ch/ch and 14CoS/14CoS mice. Vasiliou V, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):631–6

Comparative quantification of two hepatic UDP–glucuronosyltransferase bilirubin isoforms mRNAs in various thyroid states in rat. Masmoudi T, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):1013–7

Differentially expressed genes in androgen–dependent and –independent prostate carcinomas. Chang GT, et al. **Cancer Res** 1997 Sep 15;57(18):4075–81

Differential down–regulation of the UDP–glucuronosyltransferase 1A locus is an early event in human liver and biliary cancer. Strassburg CP, et al. **Cancer Res** 1997 Jul 15;57(14):2979–85

HNF1 alpha activates the rat UDP glucuronosyltransferase UGT2B1 gene promoter. Hansen AJ, et al. **DNA Cell Biol** 1997 Feb;16(2):207–14

Baculovirus–directed expression of rabbit UDP–glucuronosyltransferases in Spodoptera frugiperda cells. Nguyen N, et al. **Drug Metab Dispos** 1997 Jun; 25(6):745–9

Genetic and environmental factors associated with variation of human xenobiotic glucuronidation and sulfation. Burchell B, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:739–47 (95 ref.)

Hormonal regulation of hepatic enzymes involved in foreign compound metabolism. Prough RA, et al. **FASEB J** 1996 Oct;10(12):1369–77 (39 ref.)

Complete correction of hyperbilirubinemia in the Gunn rat model of Crigler–Najjar syndrome type I following transient in vivo adenovirus–mediated expression of human bilirubin UDP–glucuronosyltransferase. Askari FK, et al. **Gene Ther** 1996 May;3(5):381–8

Chromosomal localization of the human and mouse hyaluronan synthase genes. Spicer AP, et al. **Genomics** 1997 May 1;41(3):493–7

Transient immunosuppression with FK506 permits long–term expression of therapeutic genes introduced into the liver using recombinant adenoviruses in the rat. Ilan Y, et al. **Hepatology** 1997 Oct;26(4):949–56

Isolation and characterization of a novel cDNA encoding a human UDP–glucuronosyltransferase active on C19 steroids. Beaulieu M, et al. **J Biol Chem** 1996 Sep 13; 271(37):22855–62

Expression and functional domains of rabbit liver UDP–glucuronosyltransferase 2B16 and 2B13. Li Q, et al. **J Biol Chem** 1997 Feb 7;272(6):3272–9

Transcriptional regulation by triiodothyronine of the UDP–glucuronosyltransferase family 1 gene complex in rat liver. Comparison with induction by 3–methylcholanthrene. Masmoudi T, et al. **J Biol Chem** 1997 Jul 4;272(27):17171–5

Functional cloning of the cDNA for a human hyaluronan synthase. Shyjan AM, et al. **J Biol Chem** 1996 Sep 20; 271(38):23395–9

Molecular cloning and characterization of a putative mouse hyaluronan synthase. Spicer AP, et al. **J Biol Chem** 1996 Sep 20;271(38):23400–6

Molecular cloning and characterization of a cDNA encoding the third putative mammalian hyaluronan synthase. Spicer AP, et al. **J Biol Chem** 1997 Apr 4;272(14):8957–61

Molecular identification of a putative human hyaluronan synthase. Watanabe K, et al. **J Biol Chem** 1996 Sep 20; 271(38):22945–8

Induction of central tolerance by intrathymic inoculation of adenoviral antigens into the host thymus permits long–term gene therapy in Gunn rats. Ilan Y, et al. **J Clin Invest** 1996 Dec 1;98(11):2640–7

Persistent unconjugated hyperbilirubinemia after liver transplantation due to an abnormal bilirubin UDP–glucuronosyltransferase gene promoter sequence in the donor. Jansen PL, et al. **J Hepatol** 1997 Jul;27(1):1–5

Molecular analysis of patients of Sardinian descent with Crigler–Najjar syndrome type I. Rosatelli MC, et al. **J Med Genet** 1997 Feb;34(2):122–5

The novel UGT1 gene complex links bilirubin, xenobiotics, and therapeutic drug metabolism by encoding UDP–glucuronosyltransferase isozymes with a common carboxyl terminus. Owens IS, et al. **J Pharmacokinet Biopharm** 1996 Oct;24(5):491–508

Expression and inducibility of UDP–glucuronosyltransferases 1–naphthol in human cultured hepatocytes and hepatocarcinoma cell lines. Abid A, et al. **Life Sci** 1997; 60(22):1943–51

Structure of the human UGT2B4 gene encoding a bile acid UDP–glucuronosyltransferase. Monaghan G, et al. **Mamm Genome** 1997 Sep;8(9):692–4

Differential expression of the UGT1A locus in human liver, biliary, and gastric tissue: identification of UGT1A7 and UGT1A10 transcripts in extrahepatic tissue. Strassburg CP, et al. **Mol Pharmacol** 1997 Aug;52(2):212–20

Isolation and characterization of UGT2B15(Y85): a UDP–glucuronosyltransferase encoded by a polymorphic

gene. Lévesque E, et al. **Pharmacogenetics** 1997 Aug; 7(4):317–25

The UDP glycosyltransferase gene superfamily: recommended nomenclature update based on evolutionary divergence. Mackenzie PI, et al. **Pharmacogenetics** 1997 Aug;7(4):255–69 (58 ref.)

UGT1*1 genotyping in a Canadian Inuit population. Monaghan G, et al. **Pharmacogenetics** 1997 Apr;7(2):153–6

IMMUNOLOGY

Cytochromes P450 and UDP-glucuronosyl-transferases as hepatocellular autoantigens. Obermayer-Straub P, et al. **Baillieres Clin Gastroenterol** 1996 Sep;10(3):501–32 (139 ref.)

Autoantibodies against glucuronosyltransferases differ between viral hepatitis and autoimmune hepatitis. Strassburg CP, et al. **Gastroenterology** 1996 Dec; 111(6):1576–86

Cytochromes P450 and uridine triphosphate-glucuronosyltransferases: model autoantigens to study drug-induced, virus-induced, and autoimmune liver disease. Manns MP, et al. **Hepatology** 1997 Oct; 26(4):1054–66 (147 ref.)

Cytochrome P450 enzymes and UDP-glucuronosyltransferases as hepatocellular autoantigens. Obermayer-Straub P, et al. **Mol Biol Rep** 1996;23(3–4):235–42 (59 ref.)

ISOLATION & PURIFICATION

Purification and properties of two rat liver phenobarbital-inducible UDP-glucuronosyltransferases that catalyze the glucuronidation of opioids. Coffman BL, et al. **Drug Metab Dispos** 1996 Mar;24(3):329–33

Isolation and characterization of UGT2B15(Y85): a UDP-glucuronosyltransferase encoded by a polymorphic gene. Lévesque E, et al. **Pharmacogenetics** 1997 Aug; 7(4):317–25

A mild purification method for polysaccharide binding membrane proteins: phase separation of digitonin extracts to isolate the hyaluronate synthase from Streptococcus sp. in active form. Prehm S, et al. **Protein Expr Purif** 1996 Jun;7(4):343–6

METABOLISM

Regulation of the human bilirubin UDP-glucuronosyltransferase gene. Brierley CH, et al. **Adv Enzyme Regul** 1996;36:85–97

Characterization of rabbit UDP-glucuronosyltransferase UGT1A7: tertiary amine glucuronidation is catalyzed by UGT1A7 and UGT1A4. Bruck M, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):357–64

The regio- and stereo-selectivity of C19 and C21 hydroxysteroid glucuronidation by UGT2B7 and UGT2B11. Jin CJ, et al. **Arch Biochem Biophys** 1997 May 15;341(2):207–11

Application of photoaffinity labeling with [11,12-3H]all-trans-retinoic acid to characterization of rat liver microsomal UDP-glucuronosyltransferase(s) with activity toward retinoic acid. Little JM, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):497–500

Carrier-mediated transport of uridine diphosphoglucuronic acid across the endoplasmic reticulum membrane is a prerequisite for UDP-glucuronosyltransferase activity in rat liver. Bossuyt X, et al. **Biochem J** 1997 May 1;323 (Pt 3):645–8

A critical amino acid residue, asp446, in UDP-glucuronosyltransferase. Iwano H, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):587–91

Molecular basis for deficient acetaminophen glucuronidation in cats. An interspecies comparison of enzyme kinetics in liver microsomes. Court MH, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):1041–7

Differential effect of hypophysectomy and growth hormone treatment on hepatic glucuronosyltransferases in male rats: evidence for an action at a pretranslational level for isoforms glucuronidating bilirubin. Gueraud F, et al. **Biochem Pharmacol** 1997 Jun 1;53(11):1637–47

Minimal effect of acute experimental hepatitis induced by lipopolysaccharide/D-galactosamine on biotransformation in rats. Omar H el-D, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1921–4

The effect of transforming growth factor beta 1 on the function of HepG2 hepatoma cells. Grant H, et al. **Biochem Soc Trans** 1996 May;24(2):217S

Protein-protein interactions between UDP-glucuronosyltransferase isozymes in rat hepatic microsomes. Ikushiro S, et al. **Biochemistry** 1997 Jun 10; 36(23):7154–61

Induction of a rat liver benzo[a]pyrene-trans-7,8-dihydrodiol glucuronidating activity by oltipraz and beta-naphthoflavone. Kessler FK, et al. **Carcinogenesis** 1997 Jan;18(1):107–14

Glucuronidation of thyroxine and 3,5,3'-triiodothyronine by hepatic microsomes in rainbow trout, Oncorhynchus mykiss. Finnson KW, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):193–9

Purification and properties of two rat liver phenobarbital-inducible UDP-glucuronosyltransferases that catalyze the glucuronidation of opioids. Coffman BL, et al. **Drug Metab Dispos** 1996 Mar;24(3):329–33

Human UGT2B7 catalyzes morphine glucuronidation. Coffman BL, et al. **Drug Metab Dispos** 1997 Jan;25(1):1–4

Effects of the novel immunosuppressant brequinar on hepatic UDP-glucuronic acid levels and UDP-glucuronyltransferase activities in the rat. Diamond S, et al. **Drug Metab Dispos** 1996 Mar;24(3):375–6

Glucuronidation of amines and hydroxylated xenobiotics and endobiotics catalyzed by expressed human UGT1.4 protein. Green MD, et al. **Drug Metab Dispos** 1996 Mar; 24(3):356–63

Glucuronidation of all-trans-retinoic acid and 5,6-epoxy-all-trans-retinoic acid. Activation of rat liver microsomal UDP-glucuronosyltransferase activity by alamethicin. Little JM, et al. **Drug Metab Dispos** 1997 Jan; 25(1):5–11

Glucuronidation of retinoids by rat recombinant UDP: glucuronosyltransferase 1.1 (bilirubin UGT). Radominska A, et al. **Drug Metab Dispos** 1997 Jul;25(7):889–92

Differential regulation of two uridine diphospho-glucuronosyltransferases, UGT2B15 and UGT2B17, in human prostate LNCaP cells. Guillemette C, et al. **Endocrinology** 1997 Jul;138(7):2998–3005

Gender-specific changes in thyroid hormone-glucuronidating enzymes in rat liver during short-term fasting and long-term food restriction. Visser TJ, et al. **Eur J Endocrinol** 1996 Oct;135(4):489–97

Transplantation of Gunn rats with autologous fibroblasts expressing bilirubin UDP-glucuronosyltransferase: correction of genetic deficiency and tumor formation. Seppen J, et al. **Hum Gene Ther** 1997 Jan 1;8(1):27–36

Zidovudine glucuronidation in human liver: interindividual variability. Pacifici GM, et al. **Int J Clin Pharmacol Ther** 1996 Aug;34(8):329–34

Androgen UDP-glucuronyl transferase activity is found primarily in the liver in the human. Pirog EC, et al. **J Androl** 1997 Mar-Apr;18(2):116–22

Inducing properties of rifampicin and rifabutin for selected enzyme activities of the cytochrome P-450 and UDP-glucuronosyltransferase superfamilies in female rat liver. Oesch F, et al. **J Antimicrob Chemother** 1996 Jun; 37(6):1111–9

Steroid UDP glucuronosyltransferases: characterization and regulation. Mackenzie PI, et al. **J Endocrinol** 1996 Sep;150 Suppl:S79–86 (52 ref.)

UDP glucuronosyltransferase in the cirrhotic rat liver. Debinski HS, et al. **J Gastroenterol Hepatol** 1996 Apr; 11(4):373–9

UDP-glucuronosyltransferase in the regenerating rat liver. Pellizzer AM, et al. **J Gastroenterol Hepatol** 1996 Dec; 11(12):1130–6

Biochemical basis for deficient paracetamol glucuronidation in cats: an interspecies comparison of enzyme constraint in liver microsomes. Court MH, et al. **J Pharm Pharmacol** 1997 Apr;49(4):446–9

In vitro assessment of various cytochromes P450 and glucuronosyltransferases using the antiarrhythmic propafenone as a probe drug. Kroemer HK, et al. **Methods Enzymol** 1996;272:99–105

Arginine 52 and histidine 54 located in a conserved amino-terminal hydrophobic region (LX2-R52-G-H54-X3-V-L) are important amino acids for the functional and structural integrity of the human liver UDP-glucuronosyltransferase UGT1*6. Senay C, et al. **Mol Pharmacol** 1997 Mar;51(3):406–13

UDP-glucuronosyltransferase in Gilbert's syndrome. Debinski HS, et al. **Pathology** 1996 Aug;28(3):238–41

Effect of dietary protein on hepatic and extrahepatic phase I and phase II drug metabolizing enzymes. Baijal PK, et al. **Toxicol Lett** 1996 Dec 16;89(2):99–106

Intestinal UDP-glucuronosyltransferase activities in rat and rabbit. Vargas M, et al. **Xenobiotica** 1997 May;27(5):413–21

PHYSIOLOGY

UDP-glucuronosyltransferase-mediated protection against in vitro DNA oxidation and micronucleus formation initiated by phenytoin and its embryotoxic metabolite 5-(p-hydroxyphenyl)-5-phenylhydantoin. Kim PM, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):200–9

GLUCURONYLTRANSFERASE see **GLUCURONOSYLTRANSFERASE**

GLUE PROTEINS, DROSOPHILA

ANALYSIS

Larval pupation site preference and its relationship to the glue proteins in a few species of Drosophila. Shivanna N, et al. **Genome** 1996 Feb;39(1):105–11

GENETICS

The fork head product directly specifies the tissue-specific hormone responsiveness of the Drosophila Sgs-4 gene. Lehmann M, et al. **EMBO J** 1996 Sep 16;15(18):4825–34

Two new regulatory elements controlling the Drosophila Sgs-3 gene are potential ecdysone receptor and fork head binding sites. Lehmann M, et al. **Mech Dev** 1997 Feb; 62(1):15–27

GLUE SNIFFING see **SUBSTANCE USE DISORDERS**

GLUES see **ADHESIVES**

GLUTAMATE see **GLUTAMIC ACID**

GLUTAMATE AGENTS see **EXCITATORY AMINO ACID AGENTS**

GLUTAMATE AGONISTS see **EXCITATORY AMINO ACID AGONISTS**

GLUTAMATE-AMMONIA LIGASE

ANTAGONISTS & INHIBITORS

Alanyl-glutamine prevents muscle atrophy and glutamine synthetase induction by glucocorticoids. Hickson RC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1165–72

Effect of the glutamine synthetase inhibitor, methionine sulfoximine, on the growth and differentiation of Dictyostelium discoideum. Dunbar AJ, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):163–8

Oxidative inactivation of glutamine synthetase from the cyanobacterium Anabaena variabilis. Martin G, et al. **J Bacteriol** 1997 Feb;179(3):730–4

Methionine sulfoximine, a glutamine synthetase inhibitor, attenuates increased extracellular potassium activity during acute hyperammonemia. Sugimoto H, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):44–9

Inhibition of glutamine synthetase reduces ammonia-induced astrocyte swelling in rat. Willard-Mack CL, et al. **Neuroscience** 1996 Mar;71(2):589–99

BIOSYNTHESIS

High-level expression of Pinus sylvestris glutamine synthetase in Escherichia coli. Production of polyclonal antibodies against the recombinant protein and expression studies in pine seedlings. Canton FR, et al. **FEBS Lett** 1996 Sep 16;393(2–3):205–10

Changes in astrocytic glutamate catabolism enzymes following neuronal degeneration or viral infection. Belin MF, et al. **Glia** 1997 Sep;21(1):154–61 (80 ref.)

An immunocytochemical study of isolated human retinal Müller cells in culture. Arroyo JG, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jul;235(7):411–4

Induction of glutamine synthetase expression after major burn injury is tissue specific and temporally variable. Abcouwer SF, et al. **J Trauma** 1997 Mar;42(3):421–7; discussion 427–8

Regulation of glutamine synthetase in human breast carcinoma cells and experimental tumors. Collins CL, et al. **Surgery** 1997 Aug;122(2):451–63; discussion 463–4

CHEMISTRY

Purification and characterization of a new type of glutamine synthetase from cyanobacteria. García-Dominguez M, et al. **Eur J Biochem** 1997 Feb 15;244(1):258–64

Oxidatively induced structural alteration of glutamine synthetase assessed by analysis of spin label incorporation kinetics: relevance to Alzheimer's disease. Butterfield DA, et al. **J Neurochem** 1997 Jun;68(6):2451–7

Methionine residues as endogenous antioxidants in proteins. Levine RL, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15036–40

Engineering the aggregation properties of dodecameric glutamine synthetase: a single amino acid substitution controls 'salting out'. Dabrowski MJ, et al. **Protein Eng** 1996 Mar;9(3):291–8

DEFICIENCY

Hepatic glutamine synthetase deficiency in fatal hyperammonemia after lung transplantation. Tuchman M, et al. **Ann Intern Med** 1997 Sep 15;127(6):446–9

DRUG EFFECTS

An immunocytochemical study of glutamate receptors and glutamine synthetase in the hippocampus of rats injected with kainate. Ong WY, et al. **Exp Brain Res** 1996 May; 109(2):251–67

GENETICS

Characterization of recombinant glutamine synthetase from the hyperthermophilic archaeon Pyrococcus sp. strain KOD1. Adul Rahman RN, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2472–6

Role of the 5' enhancer of the glutamine synthetase gene in its organ-specific expression. Lie-Venema H, et al. **Biochem J** 1997 May 1;323 (Pt 3):611–9

DNA and RNA oligomer sequences from the 3' noncoding region of the chicken glutamine synthetase gene from intramolecular hairpins. Riccelli PV, et al. **Biochemistry** 1996 Dec 3;35(48):15364–72

Cis-regulatory sequences from the first intron of the rat glutamine synthetase gene are involved in hepatocyte specific expression of the enzyme. Gaunitz F, et al. **Biol Chem** 1997 Jan;378(1):11–8

Cloning and characterisation of glutamine synthetase from Colletotrichum gloeosporioides and demonstration of elevated expression during pathogenesis on Stylosanthes guianensis. Stephenson SA, et al. **Curr Genet** 1997 May; 31(5):447–54

Localization of the L-glutamine synthetase gene to

chromosome 1q23. Clancy KP, et al. **Genomics** 1996 Dec 15;38(3):418–20

Chromosomal mapping of a family of human glutamine synthetase genes: functional gene (GLUL) on 1q25, pseudogene (GLULP) on 9p13, and three related genes (GLULL1, GLULL2, GLULL3) on 5q33, 11p15, and 11q24. Wang Y, et al. **Genomics** 1996 Oct 15;37(2):195–9

Cloning of the glutamine synthetase gene from group B streptococci. Suvorov AN, et al. **Infect Immun** 1997 Jan; 65(1):191–6

Characterization of Azorhizobium caulinodans glnB and glnA genes: involvement of the P(II) protein in symbiotic nitrogen fixation. Michel-Reydellet N, et al. **J Bacteriol** 1997 Jun;179(11):3580–7

Transcription of glutamine synthetase genes (glnA and glnN) from the cyanobacterium Synechocystis sp. strain PCC 6803 is differently regulated in response to nitrogen availability. Reyes JC, et al. **J Bacteriol** 1997 Apr; 179(8):2678–89

Molecular identification and characterization of cytosolic isoforms of glutamine synthetase in maize roots. Sakakibara H, et al. **J Biol Chem** 1996 Nov 22;271(47):29561–8

Glutamine synthetase and heteroresistance in methicillin-resistant Staphylococcus aureus. Strandén AM, et al. **Microb Drug Resist** 1996 Summer;2(2):201–7

Glutamine synthetase gene expression in a glioblastoma cell-line of clonal origin: regulation by dexamethasone and dibutyryl cyclic AMP. Arcuri C, et al. **Neurochem Res** 1995 Oct;20(10):1133–9

Characterization of glutamine synthetase transcript, protein, and enzyme activity in the human placenta. DeMarco V, et al. **Placenta** 1997 Sep;18(7):541–5

Localization of tobacco cytosolic glutamine synthetase enzymes and the corresponding transcripts shows organ- and cell-specific patterns of protein synthesis and gene expression. Dubois F, et al. **Plant Mol Biol** 1996 Jul; 31(4):803–17

Nitrogen metabolism in actinorhizal nodules of Alnus glutinosa: expression of glutamine synthetase and acetylornithine transaminase. Guan C, et al. **Plant Mol Biol** 1996 Dec;32(6):1177–84

Characterization of Vitis vinifera L. glutamine synthetase and molecular cloning of cDNAs for the cytosolic enzyme. Loulakakis KA, et al. **Plant Mol Biol** 1996 Aug; 31(5):983–92

Isolation and characterization of glutamine synthetase genes in Chlamydomonas reinhardtii. Chen Q, et al. **Plant Physiol** 1996 Nov;112(3):987–96

Induction of muscle glutamine synthetase gene expression during endotoxemia is adrenal gland dependent. Lukaszewicz GC, et al. **Shock** 1997 May;7(5):332–8

ISOLATION & PURIFICATION

Purification and characterization of a new type of glutamine synthetase from cyanobacteria. García-Domínguez M, et al. **Eur J Biochem** 1997 Feb 15;244(1):258–64

METABOLISM

Increased glutamine synthetase immunoreactivity in experimental pneumococcal meningitis. Stringaris AK, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):215–8

Enzymes of central nitrogen metabolism from hyperthermophiles: characterization, thermostability, and genetics. Diruggiero J, et al. **Adv Protein Chem** 1996; 48:311–39 (100 ref.)

Glucocorticoids regulate glutamine synthetase expression in lung epithelial cells. Abcouwer SF, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):L141–51

Glutamine interferes with glucocorticoid-induced expression of glutamine synthetase in skeletal muscle. Hickson RC, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E912–7

Glutamine synthetase induction by glucocorticoids is preserved in skeletal muscle of aged rats. Meynial-Denis D, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1061–6

Glutamate, glutamine and glutamine synthetase in the neonatal rat brain following hypoxia. Krajnc D, et al. **Brain Res** 1996 Jan 22;707(1):134–7

Hormonal and non-hormonal regulation of glutamine synthetase in the developing neural retina. Gorovits R, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):321–9

Pathogenic mechanisms of the acute porphyric attack: speculative roles of manganese associated enzymes. Thunell S, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Feb;43(1):1–8

Symbiotic nitrogen fixation does not require adenylylation of glutamine synthetase I in Rhizobium meliloti. Arcondéguy T, et al. **FEMS Microbiol Lett** 1996 Nov 15; 145(1):33–40

Glutamine synthetase is a glial-specific marker in the olfactory regions of the lobster (Panulirus argus) nervous system. Linser PJ, et al. **Glia** 1997 Aug;20(4):275–83

Glutamine synthetase and glutamate metabolism in the guinea pig cochlea. Eybalin M, et al. **Hear Res** 1996 Nov 1; 101(1–2):93–101

Stimulation of glutamine synthetase activity by excitatory amino acids in astrocyte cultures derived from aged mouse cerebral hemispheres may be associated with non-N-methyl-D-aspartate receptor activation. Fleischer-Lambropoulos E, et al. **Int J Dev Neurosci** 1996 Jul;14(4):523–30

Evidence for two possible glnB-type genes in Herbaspirillum seropedicae. Benelli EM, et al. **J Bacteriol** 1997 Jul; 179(14):4623–6

Expression and efficient export of enzymatically active Mycobacterium tuberculosis glutamine synthetase in Mycobacterium smegmatis and evidence that the information for export is contained within the protein. Harth G, et al. **J Biol Chem** 1997 Sep 5;272(36):22728–35

A maternal requirement for glutamine synthetase I for the mitotic cycles of syncytial Drosophila embryos. Frenz LM, et al. **J Cell Sci** 1996 Nov;109 (Pt 11):2649–60

Distribution of glutamine synthetase in the chick forebrain: implications for passive avoidance memory formation. O'Dowd BS, et al. **J Hirnforsch** 1997;38(2):147–52

Prevention of hyperoxia-induced alterations in synaptosomal membrane-associated proteins by N-tert-butyl-alpha-phenylnitrone and 4-hydroxy-2,2,6,6-tetramethylpiperidin-1-oxyl (Tempol). Howard BJ, et al. **J Neurochem** 1996 Nov;67(5):2045–50

Severity of hyperammonemic encephalopathy correlates with brain ammonia level and saturation of glutamine synthetase in vivo. Kanamori K, et al. **J Neurochem** 1996 Oct; 67(4):1584–94

NMDA receptor-mediated cGMP synthesis in primary cultures of mouse cerebellar granule cells appears to involve neuron-astrocyte communication with NO operating as the intercellular messenger. Malcolm C, et al. **J Neurosci Res** 1996 Jul 15;45(2):129–42

Imbalanced expression of glutamate-glutamine cycle enzymes induced by human T-cell lymphotropic virus type 1 Tax protein in cultivated astrocytes. Akaoka H, et al. **J Virol** 1996 Dec;70(12):8727–36

Strain- and sex-specific variations in hepatic glutamine synthetase activity and distribution in rats and mice. Sirma H, et al. **Liver** 1996 Jun;16(3):166–73

Long-term changes in glial fibrillary acidic protein and glutamine synthetase immunoreactivities in the supraoptic nucleus of portacaval shunted rats. Suárez I, et al. **Metab Brain Dis** 1996 Dec;11(4):369–79

An alternative PII protein in the regulation of glutamine synthetase in Escherichia coli. van Heeswijk WC, et al. **Mol Microbiol** 1996 Jul;21(1):133–46

Differential responsiveness of late passage C-6 glial cells and advanced passages of astrocytes derived from aged mouse cerebral hemispheres to cytokines and growth factors: glutamine synthetase activity. Kazazoglou T, et al. **Neurochem Res** 1996 May;21(5):609–14

Development of glial cells cultured from prenatally alcohol treated rat brain: effect of supplementation of the maternal . alcohol diet with a grape extract. Ledig M, et al. **Neurochem Res** 1996 Mar;21(3):313–7

Region-selective glutamine synthetase expression in the rat central nervous system following portocaval anastomosis. Suárez I, et al. **Neuropathol Appl Neurobiol** 1997 Jun; 23(3):254–61

Induction of glutamine synthetase by L-alpha-aminoadipate in developmental stages of cultured astrocytes. Koyama Y, et al. **Neurosci Lett** 1997 Feb 14;223(1):65–8

Characterization of glutamine synthetase transcript, protein, and enzyme activity in the human placenta. DeMarco V, et al. **Placenta** 1997 Sep;18(7):541–5

Methionine residues as endogenous antioxidants in proteins. Levine RL, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15036–40

Investigating the effects of posttranslational adenylylation on the metal binding sites of Escherichia coli glutamine synthetase using lanthanide luminescence spectroscopy. Reynaldo LP, et al. **Protein Sci** 1996 Dec;5(12):2532–44

[Effect of reproduction of the LPP-3 cyanophage on glutamate dehydrogenase and glutamine synthetase activity in the cyanobacterium Plectonema boryanum] Mendzhul MI, et al. **Ukr Biokhim Zh** 1995 Nov-Dec;67(6):33–7 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Inhibition of glutamine synthetase activity prevents memory consolidation. Gibbs ME, et al. **Brain Res Cogn Brain Res** 1996 Jul;4(1):57–64

Glutamine synthetase-induced enhancement of beta-amyloid peptide A beta (1–40) neurotoxicity accompanied by abrogation of fibril formation and A beta fragmentation. Aksenov MY, et al. **J Neurochem** 1996 May;66(5):2050–6

PHYSIOLOGY

Glutamine synthetase protects against neuronal degeneration in injured retinal tissue. Gorovits R, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7024–9

ULTRASTRUCTURE

Discrete cellular and subcellular localization of glutamine synthetase and the glutamate transporter GLAST in the rat vestibular end organ. Takumi Y, et al. **Neuroscience** 1997 Aug;79(4):1137–44

GLUTAMATE ANTAGONISTS see **EXCITATORY AMINO ACID ANTAGONISTS**

GLUTAMATE CARBOXY-LYASE see **GLUTAMATE DECARBOXYLASE**

GLUTAMATE DECARBOXYLASE

ANALYSIS

Stiff-man syndrome: possible autoimmune etiology targeted against GABA-ergic cells. Warich-Kirches M, et al. **Clin Neuropathol** 1997 Jul-Aug;16(4):214–9

Choline acetyltransferase, glutamate decarboxylase, tyrosine hydroxylase, calcitonin gene-related peptide and opioid peptides coexist in lateral efferent neurons of rat and guinea-pig. Safieddine S, et al. **Eur J Neurosci** 1997 Feb; 9(2):356–67

Double-label immunofluorescence study of glutamic acid decarboxylase in the fetal and adult ovine pancreas by light and confocal microscopy: evidence for predominant beta-cell coexpression. Reddy S, et al. **Gen Comp Endocrinol** 1997 Jun;106(3):301–9

Determination of glutamate decarboxylase by high-performance liquid chromatography. Rossetti V, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):63–7

Vesicle shape and amino acids in synaptic inputs to phrenic motoneurons: do all inputs contain either glutamate or GABA? Murphy SM, et al. **J Comp Neurol** 1996 Sep 16; 373(2):200–19

Dense GABAergic input on somata of parvalbumin-immunoreactive GABAergic neurons in the hippocampus of the mouse. Fukuda T, et al. **Neurosci Res** 1996 Oct;26(2):181–94

Distribution and projection of the medullary cardiovascular control neurons containing glutamate, glutamic acid decarboxylase, tyrosine hydroxylase and phenylethanolamine N-methyltransferase in rats. Suzuki T, et al. **Neurosci Res** 1997 Jan;27(1):9–19

ANTAGONISTS & INHIBITORS

Valproic acid differs in its in vitro effect on glutamic acid decarboxylase activity in neonatal and adult rat brain. Wikinski SI, et al. **Gen Pharmacol** 1996 Jun;27(4):635–8

Block of glutamate decarboxylase decreases GABAergic inhibition at the crayfish synapses: possible role of presynaptic metabotropic mechanisms. Golan H, et al. **J Neurophysiol** 1996 May;75(5):2089–98

Influence of sanguinarine on the GABA synthesizing enzyme glutamate decarboxylase in vitro. Netopilova M, et al. **Pharmazie** 1996 Aug;51(8):589–91

BIOSYNTHESIS

The effect of cytokines on expression of glutamic acid decarboxylase-65 in cultured islets. Hao W, et al. **Autoimmunity** 1995;22(4):209–18

Co-expression of tyrosine hydroxylase and glutamic acid decarboxylase in dopamine differentiation factor-treated striatal neurons in culture. Max SR, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):140–2

GABAergic neurons in the embryonic olfactory pit/vomeronasal organ: maintenance of functional GABAergic synapses in olfactory explants. Wray S, et al. **Dev Biol** 1996 Dec 15;180(2):631–45

Hyperexpression of GAD in the islets may be relevant but is it sufficient to induce autoimmune insulitis? [comment] Pozzilli P, et al. **Diabetologia** 1997 Mar;40(3):357–61 (28 ref.). Comment on: Diabetologia 1997 Mar;40(3):352–6.

Localization of CAM II kinase-alpha, GAD, GluR2 and GABA(A) receptor subunit mRNAs in the human entorhinal cortex. Longson D, et al. **Eur J Neurosci** 1997 Apr;9(4):662–75

Stimulus-dependent, reciprocal up- and downregulation of glutamic acid decarboxylase and Ca2+/calmodulin-dependent protein kinase II gene expression in rat cerebral cortex. Liang F, et al. **Exp Brain Res** 1996 Jul;110(2):163–74

Glutamic acid decarboxylase message isoforms in human suprachiasmatic nucleus. Gao B, et al. **J Biol Rhythms** 1996 Jun;11(2):172–9

Rhythms of glutamic acid decarboxylase mRNA in the suprachiasmatic nucleus. Huhman KL, et al. **J Biol Rhythms** 1996 Dec;11(4):311–6

Basal expression and induction of glutamate decarboxylase and GABA in excitatory granule cells of the rat and monkey hippocampal dentate gyrus. Sloviter RS, et al. **J Comp Neurol** 1996 Sep 30;373(4):593–618

Prominent expression of two forms of glutamate decarboxylase in the embryonic and early postnatal rat hippocampal formation. Dupuy ST, et al. **J Neurosci** 1996 Nov 1;16(21):6919–32

Unilateral nigrostriatal lesions induce a bilateral increase in glutamate decarboxylase messenger RNA in the reticular thalamic nucleus. Delfs JM, et al. **Neuroscience** 1996 Mar; 71(2):383–95

Glutamate decarboxylase-67 messenger RNA expression in normal human basal ganglia and in Parkinson's disease. Nisbet AP, et al. **Neuroscience** 1996 Nov;75(2):389–406

Differential distribution of glutamic acid decarboxylase-65 and glutamic acid decarboxylase-67 messenger RNAs in the entopeduncular nucleus of the rat. Yuan PQ, et al. **Neuroscience** 1997 May;78(1):87–97

BLOOD

Diagnostic sensitivity of immunodominant epitopes of glutamic acid decarboxylase (GAD65) autoantibodies in childhood IDDM. Falorni A, et al. **Diabetologia** 1996 Sep;

39(9):1091–8

CEREBROSPINAL FLUID

Levels of glutamic acid decarboxylase (GAD), gamma amino butyric acid transaminase (GABA–T), glutamic acid dehydrogenase (GLDH) and proteins in cerebrospinal fluid of certain neurological disorders. Far SR, et al. **Indian J Med Sci** 1996 Apr;50(4):99–102

CHEMISTRY

Comparison of the islet cell antibody pattern of monoclonal glutamic acid decarboxylase antibodies recognizing linear and conformational epitopes. Augstein P, et al. **Acta Histochem** 1996 Apr;98(2):229–41

Structure and alternative promoters of the mouse glutamic acid decarboxylase 67 gene. Yanagawa Y, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):573–8

Heteromers of glutamate decarboxylase isoforms occur in rat cerebellum. Sheikh SN, et al. **J Neurochem** 1996 May; 66(5):2082–90

DEFICIENCY

Mice lacking the 65 kDa isoform of glutamic acid decarboxylase (GAD65) maintain normal levels of GAD67 and GABA in their brains but are susceptible to seizures. Asada H, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):891–5

Cleft palate and decreased brain gamma–aminobutyric acid in mice lacking the 67–kDa isoform of glutamic acid decarboxylase. Asada H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6496–9

DRUG EFFECTS

Repeated injections of dizocilpine maleate (MK–801) do not suppress the effects of nigrostriatal dopamine deafferentation on glutamate decarboxylase (GAD67) mRNA expression in the adult rat striatum. Hajji MD, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):219–24

L–DOPA regulates glutamate decarboxylases mRNA levels in MPTP–treated monkeys. Soghomonian JJ, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):237–40

Glutamic acid decarboxylase in rat olfactory bulb: effect of ovarian steroids or male pheromones. Navarro Becerra N, et al. **Eur J Pharmacol** 1996 Sep 19;312(1):83–7

Inhibition of glutamate decarboxylase activity by 3–mercaptopropionic acid has different time course in the immature and adult rat brains. Netopilová M, et al. **Neurosci Lett** 1997 Apr 18;226(1):68–70

GENETICS

Ontogeny of glutamic acid decarboxylase gene expression in the mouse pancreas. Pleau JM, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):227–30

Structure and alternative promoters of the mouse glutamic acid decarboxylase 67 gene. Yanagawa Y, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):573–8

GABAergic neuronal activity and mRNA levels for both forms of glutamic acid decarboxylase (GAD65 and GAD67) are reduced in the diagonal band of Broca during the afternoon of proestrus. Grattan DR, et al. **Brain Res** 1996 Sep 9;733(1):46–55

Postnatal developmental changes of neurons expressing calcium–binding proteins and GAD mRNA in the pretectal nuclear complex of the cat. Wahle P, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):72–86

Differential regulation of mRNA levels encoding for the two isoforms of glutamate decarboxylase (GAD65 and GAD67) by dopamine receptors in the rat striatum. Laprade N, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):65–74

Regional distribution of GABA transporter 1 (GAT1) mRNA in the rat brain: comparison with glutamic acid decarboxylase67 (GAD67) mRNA localization. Yasumi M, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):205–18

Neuronal coexistence of trkB and glutamic acid decarboxylase67 mRNAs in rat hippocampus. Zachrisson O, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):169–73

Structure and the promoter region of the mouse gene encoding the 67–kD form of glutamic acid decarboxylase. Szabó G, et al. **DNA Cell Biol** 1996 Dec;15(12):1081–91

Expression of properly folded human glutamate decarboxylase 65 as a fusion protein in Escherichia coli. Papouchado ML, et al. **Eur J Biochem** 1997 Jun 1; 246(2):350–9

Two glutamate decarboxylase forms corresponding to the mammalian GAD65 and GAD67 are expressed during development of the chick telencephalon. Ahman AK, et al. **Eur J Neurosci** 1996 Oct;8(10):2111–7

Regulation of glutamic acid decarboxylase mRNA expression in rat brain after sertraline treatment. Giardino L, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):183–7

Genetic markers for glutamic acid decarboxylase do not predict insulin–dependent diabetes mellitus in pairs of affected siblings. The Danish Study Group of Diabetes in Childhood. Rambrand T, et al. **Hum Genet** 1997 Feb; 99(2):177–85

Mapping of an autoreactive epitope within glutamate decarboxylase using a diabetes–associated human monoclonal autoantibody and an epitope cDNA library. Richter W, et al. **Hybridoma** 1996 Apr;15(2):103–8

Expression pattern of glutamate decarboxylase (GAD) in the developing cortex of the embryonic chick brain. Lundgren P, et al. **Int J Dev Neurosci** 1997 Feb;15(1):127–37

Developmental expression of GABA(A) receptor subunit and GAD genes in mouse somatosensory barrel cortex. Golshani P, et al. **J Comp Neurol** 1997 Jun 30; 383(2):199–219

Glutamic acid decarboxylase––gene to antigen to disease. Lernmark A. **J Intern Med** 1996 Nov;240(5):259–77 (85 ref.)

Gene–based neurotransmitter modulation in cerebellar granule neurons. Fritz JD, et al. **J Neurochem** 1997 Jan; 68(1):204–12

Adrenergic agents inhibit rapid increases in cerebellar Purkinje cell glutamic acid decarboxylase (GAD67) mRNA levels after climbing fiber lesions or reserpine treatment. Drengler SM, et al. **J Neurosci** 1996 Mar 1; 16(5):1844–51

Glutamate decarboxylase (GAD67 and GAD65) gene expression is increased in a subpopulation of neurons in the putamen of Parkinsonian monkeys. Soghomonian JJ, et al. **Synapse** 1997 Oct;27(2):122–32

IMMUNOLOGY

GAD 65 antibody but not ICA positivity in adult–onset diabetic patients is associated with early progression to clinical insulin dependency. Hatziagelaki E, et al. **Acta Diabetol** 1996 Dec;33(4):291–4

HLA class II is associated with the frequency of glutamic acid decarboxylase M(r) 65,000 autoantibodies in Japanese patients with insulin–dependent diabetes mellitus. Kasuga A, et al. **Acta Diabetol** 1996 Jul;33(2):108–13

Murine monoclonal glutamic acid decarboxylase (GAD)65 antibodies recognize autoimmune–associated GAD epitope regions targeted in patients with type 1 diabetes mellitus and stiff–man syndrome. Ziegler B, et al. **Acta Diabetol** 1996 Sep;33(3):225–31

Clinical significance and time course of antibodies to glutamic acid decarboxylase in Japanese children with type I (insulin–dependent) diabetes mellitus. Sugihara S, et al. **Acta Paediatr** 1996 May;85(5):558–63

T cell proliferative responses to glutamic acid decarboxylase–65 in IDDM are negatively associated with HLA DR3/4. Worsaae A, et al. **Autoimmunity** 1995; 22(3):183–9

Measurement of antibodies against glutamic acid decarboxylase 65 (GADA): two new 125I assays compared with [35S]GAD 65–ligand binding assay [see comments] Borg H, et al. **Clin Chem** 1997 May;43(5):779–85. Comment in: Clin Chem 1997 May;43(5):705–7.

Radioimmunoprecipitation assay for glutamic acid decarboxylase antibodies evaluated clinically with sera from patients with insulin–dependent diabetes mellitus. Ohta M, et al. **Clin Chem** 1996 Dec;42(12):1975–8

Immunological characterization of antibodies against synthetic peptides of glutamic acid decarboxylase. Ohta M, et al. **Clin Chim Acta** 1996 Jul 15;251(1):81–9

Glutamic acid decarboxylase autoantibody assay using 125I–labelled recombinant GAD65 produced in yeast. Powell M, et al. **Clin Chim Acta** 1996 Dec 30;256(2):175–88

Antibody cross–reactivity induced by the homologous regions in glutamic acid decarboxylase (GAD65) and 2C protein of coxsackievirus B4. Childhood Diabetes in Finland Study Group. Lönnrot M, et al. **Clin Exp Immunol** 1996 Jun;104(3):398–405

Diabetic sera react with the glutamic acid decarboxylase molecule in a dimeric–oligomeric form. Rowley MJ, et al. **Clin Exp Immunol** 1996 Nov;106(2):323–8

Antibodies to glutamic acid decarboxylase in Japanese diabetic patients with secondary failure of oral hypoglycaemic therapy. Fukui M, et al. **Diabet Med** 1997 Feb;14(2):148–52

Autoantibodies associated with presymptomatic insulin–dependent diabetes mellitus in women. Whittingham S, et al. **Diabet Med** 1997 Aug;14(8):678–85

Glutamate decarboxylase–reactive peripheral blood lymphocytes from patients with IDDM express gut–specific homing receptor alpha4beta7–integrin. Paronen J, et al. **Diabetes** 1997 Apr;46(4):583–8

Combined analysis and single–step detection of GAD65 and IA2 autoantibodies in IDDM can replace the histochemical islet cell antibody test. Wiest–Ladenburger U, et al. **Diabetes** 1997 Apr;46(4):565–71

Low prevalence of islet autoantibodies in patients with gestational diabetes mellitus. Dozio N, et al. **Diabetes Care** 1997 Jan;20(1):81–3

The role of late–onset autoimmune diabetes in white familial NIDDM pedigrees. Elbein SC, et al. **Diabetes Care** 1997 Aug;20(8):1248–51

Antibodies to GAD in chronic hepatitis C patients [letter] Hiéronimus S, et al. **Diabetes Care** 1997 Jun;20(6):1044

Presence of anti–pituitary antibodies and GAD antibodies in NIDDM and IDDM. Kobayashi T, et al. **Diabetes Care** 1997 May;20(5):864–6

GAD antibodies seldom disappear in slowly progressive IDDM [letter] Kobayashi T, et al. **Diabetes Care** 1996 Sep; 19(9):1031

Do GAD antibodies at IDDM onset predict the clinical course of diabetes in children? [letter; comment] Kordonouri O, et al. **Diabetes Care** 1996 Aug;19(8):901–2 . Comment on: Diabetes Care 1996 Jan;19(1):74–5.

GAD antibodies in IDDM in Thailand [letter] Rattarasarn C, et al. **Diabetes Care** 1996 Jun;19(6):674–5

Pancreatic beta cell function and antibodies to glutamic acid decarboxylase (anti–GAD) in Chinese patients with clinical diagnosis of insulin–dependent diabetes mellitus. Chan JC, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1–2):27–34

Detection of recombinant GAD65 and GAD67 antibodies using a simple radioimmunoassay. Kawasaki E, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1–2):61–9

Autoantibodies in relation to residual insulin secretion in children with IDDM. Ludvigsson J, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):81–9

Low prevalence of immunogenetic markers of IDDM in adult Koreans with diabetes detected on OGTT. Park Y, et al. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S37–43

HLA–DR, DQ and anti–GAD antibodies in first degree relatives of type I diabetes mellitus. Serrano–Ríos M, et al. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S133–9

Onset of diabetes with high titer anti–GAD antibody after IFN therapy for chronic hepatitis. Shiba T, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):237–41

Islet cell antibodies and antibodies against glutamic acid decarboxylase in newly diagnosed adult–onset diabetes mellitus. Willis JA, et al. **Diabetes Res Clin Pract** 1996 Jul; 33(2):89–97

Combined measurements of GAD65 and ICA512 antibodies in acute onset and slowly progressive IDDM. Yamada K, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):91–8

Antibodies to glutamic acid decarboxylase in the prediction of insulin dependency. Zimmet P. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S125–31 (31 ref.)

Diagnostic sensitivity of immunodominant epitopes of glutamic acid decarboxylase (GAD65) autoantibodies in childhood IDDM. Falorni A, et al. **Diabetologia** 1996 Sep; 39(9):1091–8

Association of IA–2 autoantibodies with HLA DR4 phenotypes in IDDM. Genovese S, et al. **Diabetologia** 1996 Oct;39(10):1223–6

IA–2–autoantibodies complement GAD65–autoantibodies in new–onset IDDM patients and help predict impending diabetes in their siblings. The Belgian Diabetes Registry. Gorus FK, et al. **Diabetologia** 1997 Jan;40(1):95–9

Proliferative lymphocyte responses to virus antigens homologous to GAD65 in IDDM. Jones DB, et al. **Diabetologia** 1996 Nov;39(11):1318–24

Association between HLA and islet cell antibodies in diabetic patients with a mitochondrial DNA mutation at base pair 3243. Kobayashi T, et al. **Diabetologia** 1996 Oct; 39(10):1196–200

GAD65 autoantibodies in women with gestational or insulin dependent diabetes mellitus diagnosed during pregnancy. Petersen JS, et al. **Diabetologia** 1996 Nov;39(11):1329–33

T–cell reactivity to GAD65 peptide sequences shared with coxsackie virus protein in recent–onset IDDM, post–onset IDDM patients and control subjects. Schloot NC, et al. **Diabetologia** 1997 Mar;40(3):332–8

Combined screening for autoantibodies to IA–2 and antibodies to glutamic acid decarboxylase in first degree relatives of patients with IDDM. The DENIS Study Group. Deutsche Nikotinamid Interventions–Studie. Seissler J, et al. **Diabetologia** 1996 Nov;39(11):1351–6

Prevalence of GAD65 and IA–2 autoantibodies in IDDM patients affected by diabetic nephropathy [letter] Zerbini G, et al. **Diabetologia** 1997 Apr;40(4):485

Glutamic acid decarboxylase65 (GAD65) antibodies and insulin auto–antibodies in Japanese patients with non–insulin–dependent diabetes mellitus. Maruyama T, et al. **Endocr J** 1997 Feb;44(1):43–51

T cell autoimmunity to glutamic acid decarboxylase in human insulin–dependent diabetes mellitus. Lohmann T, et al. **Horm Metab Res** 1996 Jul;28(7):357–60 (29 ref.)

Mapping of an autoreactive epitope within glutamate decarboxylase using a diabetes–associated human monoclonal autoantibody and an epitope cDNA library. Richter W, et al. **Hybridoma** 1996 Apr;15(2):103–8

Identification of immunogenic epitopes of GAD 65 presented by Ag7 in non–obese diabetic mice. Chao CC, et al. **Immunogenetics** 1997;46(1):29–34

Islet cell and glutamic acid decarboxylase antibodies and heat–shock protein 65 responses in children with newly diagnosed insulin–dependent diabetes mellitus. Scheinin T, et al. **Immunol Lett** 1996 Jan;49(1–2):123–6

Clinical evaluation of non–insulin–dependent diabetes mellitus patients with autoantibodies to glutamic acid decarboxylase. Abiru N, et al. **J Autoimmun** 1996 Oct; 9(5):683–8

Reactivity of islet cell antibodies (ICA) to recombinant glutamic acid decarboxylase (GAD). Guazzarotti L, et al. **J Autoimmun** 1995 Dec;8(6):901–14

High T cell responses to the glutamic acid decarboxylase (GAD) isoform 67 reflect a hyperimmune state that precedes the onset of insulin–dependent diabetes. Honeyman MC, et al. **J Autoimmun** 1997 Apr;10(2):165–73

Detection of glutamic acid decarboxylase (GAD) autoantibodies by indirect immunofluorescence using CHO cells expressing recombinant human GAD65. Papouchado ML, et al. **J Autoimmun** 1996 Oct;9(5):689–97

Modulation and detection of IDDM by membrane associated antigens from the islet beta cell line NIT–1. Reid BD, et al. **J Autoimmun** 1997 Feb;10(1):27–34

Expression of recombinant human glutamic acid decarboxylase (GAD) in myeloma cells and enzyme–linked immunosorbent assay (ELISA) for autoantibodies to GAD.

Matsuba T, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):20–4

Human B cells secreting immunoglobulin G to glutamic acid decarboxylase–65 from a nondiabetic patient with multiple autoantibodies and Graves' disease: a comparison with those present in type 1 diabetes. Tremble J, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2664–70

Identification of naturally processed T cell epitopes from glutamic acid decarboxylase presented in the context of HLA–DR alleles by T lymphocytes of recent onset IDDM patients. Endl J, et al. **J Clin Invest** 1997 May 15; 99(10):2405–15

Naturally processed T cell epitopes from human glutamic acid decarboxylase identified using mice transgenic for the type 1 diabetes-associated human MHC class II allele, DRB1*0401. Wicker LS, et al. **J Clin Invest** 1996 Dec 1; 98(11):2597–603

Immune reactivity of diabetes-associated human monoclonal autoantibodies defines multiple epitopes and detects two domain boundaries in glutamate decarboxylase. Syren K, et al. **J Immunol** 1996 Dec 1;157(11):5208–14

Glutamic acid decarboxylase—gene to antigen to disease. Lernmark A. **J Intern Med** 1996 Nov;240(5):259–77 (85 ref.)

Antibodies to 125I-glutamic acid decarboxylase in patients with stiff man syndrome. Vincent A, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):395–7

Glutamate decarboxylase autoimmunity and growth hormone secretion in type I diabetes mellitus. Giustina A, et al. **Metabolism** 1997 Apr;46(4):382–7

Transgenic plants expressing autoantigens fed to mice to induce oral immune tolerance. Ma SW, et al. **Nat Med** 1997 Jul;3(7):793–6

Immunohistochemical differentiation of monoclonal GAD antibodies recognizing linear or conformational epitope regions. Augstein P, et al. **Pancreas** 1997 Aug;15(2):139–46

Self and viral peptides can initiate lysis by autologous natural killer cells. Mandelboim O, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4604–9

Identification of immunodominant T cell epitopes of human glutamic acid decarboxylase 65 by using HLA–DR(alpha1*0101,beta1*0401) transgenic mice. Patel SD, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22; 94(15):8082–7

Islet cell antibodies and glutamic acid decarboxylase antibodies in patients with insulin-dependent diabetes mellitus undergoing kidney and islet-after-kidney transplantation. Jaeger C, et al. **Transplantation** 1996 Aug 15;62(3):424–6

[A case of progressive continuous muscular rigidity and painless and rhythmic muscle spasm associated with autoantibody against glutamic acid decarboxylase] Oe H, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1166–71 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Isolation, overexpression, and biochemical characterization of the two isoforms of glutamic acid decarboxylase from Escherichia coli. De Biase D, et al. **Protein Expr Purif** 1996 Dec;8(4):430–8

METABOLISM

Effects of cholinergic depletion on glutamic acid decarboxylase immunoreactivity in the somatosensory cortex of rats. Herron P, et al. **Anat Embryol (Berl)** 1997 Jul;196(1):27–38

Ontogeny of GABA pathway in human fetal brains. Das SK, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):544–8

Damaged rat beta cells discharge glutamate decarboxylase in the extracellular medium. Smismans A, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):293–7

Escherichia coli L–aspartate–alpha–decarboxylase: preprotein processing and observation of reaction intermediates by electrospray mass spectrometry. Ramjee MK, et al. **Biochem J** 1997 May 1;323 (Pt 3):661–9

Quantitative analysis of GAD65 and GAD67 immunoreactivities in somata of GABAergic neurons in the mouse hippocampus proper (CA1 and CA3 regions), with special reference to parvalbumin-containing neurons. Fukuda T, et al. **Brain Res** 1997 Aug 1;764(1–2):237–43

Absence of co–localized glutamic acid decarboxylase and neuropeptides in noradrenergic axons of the rat spinal cord. Patel R, et al. **Brain Res** 1997 Feb 21;749(1):164–9

Temporal and spatial expression of glutamic acid decarboxylases in human fetal brain. Chan SO, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):318–20

L–DOPA regulates glutamate decarboxylases mRNA levels in MPTP–treated monkeys. Soghomonian JJ, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):237–40

Constitutive expression of glutamic acid decarboxylase (GAD) by striatal cell lines immortalized using the tsA58 allele of the SV40 large T antigen. Giordano M, et al. **Cell Transplant** 1996 Sep–Oct;5(5):563–75

Localization of gamma–aminobutyric acid and glutamic acid decarboxylase in the pancreas of the nonobese diabetic mouse. Saravia–Fernandez F, et al. **Endocrinology** 1996 Aug;137(8):3497–506

The GABA/GAD innervation within the inner spiral bundle in the mouse cochlea. Nitecka LM, et al. **Hear Res** 1996 Sep 15;99(1–2):91–105

Sex differences in glutamic acid decarboxylase mRNA in neonatal rat brain: implications for sexual differentiation. Davis AM, et al. **Horm Behav** 1996 Dec;30(4):538–52

Glutamate decarboxylase (GAD) is not detectable on the surface of rat islet cells examined by cytofluorometry and complement–dependent antibody–mediated cytotoxicity of monoclonal GAD antibodies. Ziegler B, et al. **Horm Metab Res** 1996 Jan;28(1):11–5

Influence of photoinhibition on GABA and glutamic acid levels, and on glutamate decarboxylase activity in the testis and epididymis of the golden hamster. Frungieri MB, et al. **Int J Androl** 1996 Jun;19(3):171–8

Expression of recombinant human glutamic acid decarboxylase (GAD) in myeloma cells and enzyme–linked immunosorbent assay (ELISA) for autoantibodies to GAD. Matsuba T, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):20–4

Phosphorylation of serine residues 3, 6, 10, and 13 distinguishes membrane anchored from soluble glutamic acid decarboxylase 65 and is restricted to glutamic acid decarboxylase 65alpha [published erratum appears in J Biol Chem 1997 Jul 4;272(27):17246] Namchuk M, et al. **J Biol Chem** 1997 Jan 17;272(3):1548–57

Development of cholinergic and GABAergic neurons in the rat medial septum: different onset of choline acetyltransferase and glutamate decarboxylase mRNA expression. Bender R, et al. **J Comp Neurol** 1996 Aug 19; 372(2):204–14

GABAergic inputs to the nucleus rotundus (pulvinar inferior) of the pigeon (columba livia). Mpodozis J, et al. **J Comp Neurol** 1996 Oct 14;374(2):204–22

Visualization of beta–galactosidase by enzyme and immunohistochemistry in the olfactory bulb of transgenic mice carrying the LacZ transgene. Sekerková G, et al. **J Histochem Cytochem** 1997 Aug;45(8):1147–55

Heteromers of glutamate decarboxylase isoforms occur in rat cerebellum. Sheikh SN, et al. **J Neurochem** 1996 May; 66(5):2082–90

Expression of glutamic acid decarboxylase in nervous tissue structures targeted by autoantibodies in patients with diabetic autonomic neuropathy. Zanone MM, et al. **J Neuroimmunol** 1997 Sep;78(1–2):1–7

Differential and time–dependent changes in gene expression for type II calcium/calmodulin–dependent protein kinase, 67 kDa glutamic acid decarboxylase, and glutamate receptor subunits in tetanus toxin–induced focal epilepsy. Liang F, et al. **J Neurosci** 1997 Mar 15;17(6):2168–80

Progressive loss of glutamic acid decarboxylase, parvalbumin, and calbindin D28K immunoreactive neurons in the cerebral cortex and hippocampus of adult rat with experimental hydrocephalus. Tashiro Y, et al. **J Neurosurg** 1997 Feb;86(2):263–71

Circadian changes of glutamate decarboxylase 65 and 67 mRNA in the rat suprachiasmatic nuclei. Cagampang FR, et al. **Neuroreport** 1996 Aug 12;7(12):1925–8

A confocal microscopic survey of serotoninergic axons in the lumbar spinal cord of the rat: co–localization with glutamate decarboxylase and neuropeptides. Maxwell L, et al. **Neuroscience** 1996 Nov;75(2):471–80

Displaced starburst amacrine cells of the rabbit retina contain the 67–kDa isoform, but not the 65–kDa isoform, of glutamate decarboxylase. Brandon C, et al. **Vis Neurosci** 1995 Nov–Dec;12(6):1053–61

PHARMACOLOGY

Treatment with GAD65 or BSA does not protect against diabetes in BB rats. Petersen JS, et al. **Autoimmunity** 1997; 25(3):129–38

PHYSIOLOGY

A ventrodorsal GABA gradient in the embryonic retina prior to expression of glutamate decarboxylase. Eliasson MJ, et al. **Neuroscience** 1997 Aug;79(3):863–9

SECRETION

Damaged rat beta cells discharge glutamate decarboxylase in the extracellular medium. Smismans A, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):293–7

THERAPEUTIC USE

From Th1 to Th2: diabetes immunotherapy shifts gears [news; comment] Solimena M, et al. **Nat Med** 1996 Dec; 2(12):1311–2. Comment on: Nat Med 1996 Dec;2(12):1348–53.

Modulating autoimmune responses to GAD inhibits disease progression and prolongs islet graft survival in diabetes–prone mice [see comments] Tian J, et al. **Nat Med** 1996 Dec;2(12):1348–53. Comment in: Nat Med 1996 Dec;2(12):1311–2.

GLUTAMATE DEHYDROGENASE

ANTAGONISTS & INHIBITORS

Modification of brain glutamate dehydrogenase isoproteins with pyridoxal 5'–phosphate. Cho SW, et al. **Biochimie** 1996;78(10):817–21

BIOSYNTHESIS

Changes in astrocytic glutamate catabolism enzymes following neuronal degeneration or viral infection. Belin MF, et al. **Glia** 1997 Sep;21(1):154–61 (80 ref.)

Glutamate dehydrogenase induction in the brain of streptozotocin diabetic rats. Nair P, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):428–30

Gender–dependent regulation of glutamate dehydrogenase expression in periportal and pericentral zones of rat liver lobules. Geerts WJ, et al. **J Histochem Cytochem** 1996 Oct; 44(10):1153–9

Characterization and expression of NAD(H)–dependent glutamate dehydrogenase genes in Arabidopsis. Turano FJ, et al. **Plant Physiol** 1997 Apr;113(4):1329–41

CEREBROSPINAL FLUID

Levels of glutamic acid decarboxylase (GAD), gamma amino butyric acid transaminase (GABA–T), glutamic acid dehydrogenase (GLDH) and proteins in cerebrospinal fluid of certain neurological disorders. Far SR, et al. **Indian J Med Sci** 1996 Apr;50(4):99–102

CHEMISTRY

Unusually stable NAD–specific glutamate dehydrogenase from the alkaliphile Amphibacillus xylanus. Jahns T. **Antonie Van Leeuwenhoek** 1996 Jul;70(1):89–95

The role and importance of different fragments of NAD+ in refolding of Clostridium symbiosum glutamate dehydrogenase. Aghajanian SA, et al. **Biochem Soc Trans** 1997 Feb;25(1):56S

Identification of a peptide of the guanosine triphosphate binding site within brain glutamate dehydrogenase isoproteins using 8–azidoguanosine triphosphate. Cho SW, et al. **Biochemistry** 1996 Nov 5;35(44):13907–13

Isoergonic cooperativity in glutamate dehydrogenase complexes: a new form of allostery. Fisher HF, et al. **Biochemistry** 1997 Sep 9;36(36):10807–10

Mechanistic interpretation of tryptophan fluorescence quenching in the time courses of glutamate dehydrogenase catalyzed reactions. Saha SK, et al. **Biochemistry** 1996 Dec 24;35(51):16483–8

Construction of a dimeric form of glutamate dehydrogenase from Clostridium symbiosum by site–directed mutagenesis. Pasquo A, et al. **Biochim Biophys Acta** 1996 Oct 17; 1297(2):149–58

The existence of a hexameric intermediate with molten–globule–like properties in the thermal denaturation of bovine–liver glutamate dehydrogenase. Singh N, et al. **Biophys Chem** 1996 Dec 10;63(1):27–36

Alteration of the quaternary structure of glutamate dehydrogenase from Clostridium symbiosum by a single mutation distant from the subunit interfaces. Dean JL, et al. **Eur Biophys J** 1997;25(5–6):417–22

Acid–induced disassembly of glutamate dehydrogenase from the hyperthermophilic archaeon Pyrococcus furiosus occurs below pH 2.0. Chiaraluce R, et al. **Eur J Biochem** 1997 Jul 1;247(1):224–30

Crystal structure of glutamate dehydrogenase from the hyperthermophilic eubacterium Thermotoga maritima at 3.0 A resolution. Knapp S, et al. **J Mol Biol** 1997 Apr 11;267(4):916–32

Essential active–site lysine of brain glutamate dehydrogenase isoproteins. Kim SW, et al. **J Neurochem** 1997 Jul; 69(1):418–22

Nerve tissue–specific human glutamate dehydrogenase that is thermolabile and highly regulated by ADP. Shashidharan P, et al. **J Neurochem** 1997 May;68(5):1804–11

DRUG EFFECTS

Glucocorticoid upregulation of glutamate dehydrogenase gene expression in vitro in astrocytes. Hardin–Pouzet H, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):324–8

GENETICS

Disruption of the NAD(+)–specific glutamate dehydrogenase gene of Neurospora crassa by means of the RIP (repeat–induced point mutations) process. Vijayaraghavan Y, et al. **Biochem Cell Biol** 1996; 74(1):29–40

The glutamate dehydrogenase, E74 and putative actin gene loci in the Drosophila montium subgroup. Chromosomal homologies among the montium species and D. melanogaster. Drosopoulou E, et al. **Chromosoma** 1997 Jun; 106(1):20–8

Sequence and characterization of two Arabidopsis thaliana cDNAs isolated by functional complementation of a yeast gln3 gdh1 mutant. Truong HN, et al. **FEBS Lett** 1997 Jun 30;410(2–3):213–8

Cloning and characterisation of a glutamate dehydrogenase cDNA from tomato (Lycopersicon esculentum L.). Purnell MP, et al. **Gene** 1997 Feb 28;186(2):249–54

Quantitative graphical description of portocentral gradients in hepatic gene expression by image analysis. Lamers WH, et al. **Hepatology** 1997 Aug;26(2):398–406

GDH3 encodes a glutamate dehydrogenase isozyme, a previously unrecognized route for glutamate biosynthesis in Saccharomyces cerevisiae. Avendaño A, et al. **J Bacteriol** 1997 Sep;179(17):5594–7

Mitochondrial glutamate dehydrogenase from Leishmania tarentolae is a guide RNA–binding protein. Bringaud F, et al. **Mol Cell Biol** 1997 Jul;17(7):3915–23

Characterization and expression of NAD(H)–dependent glutamate dehydrogenase genes in Arabidopsis. Turano FJ, et al. **Plant Physiol** 1997 Apr;113(4):1329–41

GLUTAMATE DEHYDROGENASE

Exchange of domains of glutamate dehydrogenase from the hyperthermophilic archaeon Pyrococcus furiosus and the mesophilic bacterium Clostridium difficile: effects on catalysis, thermoactivity and stability. Lebbink JH, et al. **Protein Eng** 1995 Dec;8(12):1287–94

Glutamate dehydrogenase mRNA is immediately induced after phencyclidine treatment in the rat brain. Shimizu E, et al. **Schizophr Res** 1997 Jun 20;25(3):251–8

IMMUNOLOGY

Fluctuations in GAD65 antibodies after clinical diagnosis of IDDM in young children. Batstra MR, et al. **Diabetes Care** 1997 Apr;20(4):642–4

Glutamate dehydrogenase antigen detection in Plasmodium falciparum infections. de Dominguez N, et al. **Korean J Parasitol** 1996 Dec;34(4):239–46

ISOLATION & PURIFICATION

An NADP-glutamate dehydrogenase from the green alga Bryopsis maxima. Purification and properties. Inokuchi R, et al. **Plant Cell Physiol** 1997 Mar;38(3):327–35

METABOLISM

Enzymes of central nitrogen metabolism from hyperthermophiles: characterization, thermostability, and genetics. Diruggiero J, et al. **Adv Protein Chem** 1996; 48:311–39 (100 ref.)

The NAD(P)H-dependent glutamate dehydrogenase activities of Prevotella ruminicola B(1)4 can be attributed to one enzyme (GdhA), and gdhA expression is regulated in response to the nitrogen source available for growth. Wen Z, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3826–33

Glutamate dehydrogenase activity profiles for type strains of ruminal Prevotella spp. Wen Z, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3314–7

Disruption of the NAD(+)-specific glutamate dehydrogenase gene of Neurospora crassa by means of the RIP (repeat-induced point mutations) process. Vijayaraghavan Y, et al. **Biochem Cell Biol** 1996; 74(1):29–40

Re-activation of Clostridium symbiosum glutamate dehydrogenase from subunits denatured by urea. Aghajanian S, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):649–55

The role and importance of different fragments of NAD+ in refolding of Clostridium symbiosum glutamate dehydrogenase. Aghajanian SA, et al. **Biochem Soc Trans** 1997 Feb;25(1):56S

The effects of bile salts on the kinetic properties of enzymes used in the diagnosis of liver and kidney damage. Morgan WA, et al. **Biochem Soc Trans** 1997 Feb;25(1):76S

Identification of a peptide of the guanosine triphosphate binding site within brain glutamate dehydrogenase isoproteins using 8-azidoguanosine triphosphate. Cho SW, et al. **Biochemistry** 1996 Nov 5;35(44):13907–13

Mechanistic interpretation of tryptophan fluorescence quenching in the time courses of glutamate dehydrogenase catalyzed reactions. Saha SK, et al. **Biochemistry** 1996 Dec 24;35(51):16483–8

Kinetic studies on the binding of 1,N6-etheno-NAD+ to glutamate dehydrogenase from Clostridium symbiosum. Basso LA, et al. **Biochim Biophys Acta** 1997 Jun 20; 1340(1):63–71

Glutamate dehydrogenase covalently binds to a reactive metabolite of acetaminophen. Halmes NC, et al. **Chem Res Toxicol** 1996 Mar;9(2):541–6

Chemical arrows for enzymatic targets. Colman RF. **FASEB J** 1997 Mar;11(4):217–26 (27 ref.)

The dynamics of local kinetic parameters of glutamate dehydrogenase in rat liver. Jonker A, et al. **Histochem Cell Biol** 1996 Oct;106(4):437–43

Regulation of glutamate dehydrogenase by branched-chain amino acids in skeletal muscle from rats and chicks. Zhou X, et al. **Int J Biochem Cell Biol** 1996 Jul;28(7):787–93

Involvement of a membrane-bound form of glutamate dehydrogenase in the association of lysosomes to microtubules. Rajas F, et al. **J Biol Chem** 1996 Nov 22; 271(47):29882–90

Dual-enzyme assay of glutamate in single cells based on capillary electrophoresis. Wang Z, et al. **J Chromatogr B Biomed Appl** 1997 Jul 18;695(1):59–65

Nerve tissue-specific human glutamate dehydrogenase that is thermolabile and highly regulated by ADP. Shashidharan P, et al. **J Neurochem** 1997 May;68(5):1804–11

Cytokines are increased in the rat hippocampus after serotonergic neuron degeneration and upregulate the expression of GDH, an enzyme involved in glutamate detoxification. Hardin-Pouzet H, et al. **J Neuroimmunol** 1996 Sep;69(1-2):117–22

Imbalanced expression of glutamate-glutamine cycle enzymes induced by human T-cell lymphotropic virus type 1 Tax protein in cultivated astrocytes. Akaoka H, et al. **J Virol** 1996 Dec;70(12):8727–36

An NADP-glutamate dehydrogenase from the green alga Bryopsis maxima. Purification and properties. Inokuchi R, et al. **Plant Cell Physiol** 1997 Mar;38(3):327–35

Exchange of domains of glutamate dehydrogenase from the hyperthermophilic archaeon Pyrococcus furiosus and the mesophilic bacterium Clostridium difficile: effects on catalysis, thermoactivity and stability. Lebbink JH, et al. **Protein Eng** 1995 Dec;8(12):1287–94

Glutamate dehydrogenase: an organelle-specific mRNA-binding protein [letter; comment] Preiss T, et al. **Trends Biochem Sci** 1997 Aug;22(8):290. Comment on: Trends Biochem Sci 1997 Apr;22(4):110–3.

[Activity of glutamate dehydrogenase, gamma-glutamyltranspeptidase and creatine kinase in saliva in gingivitis] Petrovich IuA, et al. **Patol Fiziol Eksp Ter** 1996 Oct-Dec;(4):28–30 (Eng. Abstr.) **(Rus)**

[Effect of reproduction of the LPP-3 cyanophage on glutamate dehydrogenase and glutamine synthetase activity in the cyanobacterium Plectonema boryanum] Mendzhul MI, et al. **Ukr Biokhim Zh** 1995 Nov-Dec;67(6):33–7 (Eng. Abstr.) **(Rus)**

GLUTAMATE DEHYDROGENASE (NADP+)

CHEMISTRY

NADP-glutamate dehydrogenase from the halophilic archaeon Haloferax mediterranei: enzyme purification, N-terminal sequence and stability. Ferrer J, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):59–63

NADP-specific glutamate dehydrogenase of Penicillium chrysogenum has a homohexamer structure. Bogáti MS, et al. **J Basic Microbiol** 1996;36(5):371–5

GENETICS

The NAD(P)H-utilizing glutamate dehydrogenase of Bacteroides thetaiotaomicron belongs to enzyme family I, and its activity is affected by trans-acting gene(s) positioned downstream of gdhA. Baggio L, et al. **J Bacteriol** 1996 Dec;178(24):7212–20

Genetic structure of Plasmodium vivax isolates in India. Joshi H, et al. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr; 91(2):231–5

ISOLATION & PURIFICATION

NADP-glutamate dehydrogenase from the halophilic archaeon Haloferax mediterranei: enzyme purification, N-terminal sequence and stability. Ferrer J, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):59–63

Electrophoretic variations of enzyme, GDH (NADP-dependent glutamate dehydrogenase)(EC. 1.4.1.4) in characterizing clones and isolates of Malaysian Plasmodium falciparum. Ang HH, et al. **Korean J Parasitol** 1996 Sep;34(3):211–3

METABOLISM

The NAD(P)H-dependent glutamate dehydrogenase activities of Prevotella ruminicola B(1)4 can be attributed to one enzyme (GdhA), and gdhA expression is regulated in response to the nitrogen source available for growth. Wen Z, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3826–33

Chloroquine is a potent inhibitor of glutamate dehydrogenase in liver and kidney-cortex of rabbit. Jarzyna R, et al. **Pharmacol Res** 1997 Jan;35(1):79–84

GLUTAMATE RECEPTORS see **RECEPTORS, GLUTAMATE**

GLUTAMATE RECEPTORS, METABOTROPIC see **RECEPTORS, METABOTROPIC GLUTAMATE**

GLUTAMATE SYNTHASE

CHEMISTRY

Structure and regulation of ferredoxin-dependent glutamase synthase from Arabidopsis thaliana. Cloning of cDNA expression in different tissues of wild-type and gltS mutant strains, and light induction. Suzuki A, et al. **Eur J Biochem** 1997 Feb 1;243(3):708–18

GENETICS

Structure and regulation of ferredoxin-dependent glutamase synthase from Arabidopsis thaliana. Cloning of cDNA expression in different tissues of wild-type and gltS mutant strains, and light induction. Suzuki A, et al. **Eur J Biochem** 1997 Feb 1;243(3):708–18

Cloning and sequencing of the gene for the Thiobacillus ferrooxidans ATCC33020 glutamate synthase (GOGAT) small subunit and complementation of an Escherichia coli gltD mutant. Deane SM, et al. **Gene** 1996 Oct 24; 177(1-2):261–3

Use of an in vivo titration method to study a global regulator: effect of varying Lrp levels on expression of gltBDF in Escherichia coli. Borst DW, et al. **J Bacteriol** 1996 Dec; 178(23):6904–12

A nucleoprotein activation complex between the leucine-responsive regulatory protein and DNA upstream of the gltBDF operon in Escherichia coli. Wiese DE 2nd, et al. **J Mol Biol** 1997 Jul 11;270(2):152–68

Gene cloning, sequencing and enzymatic properties of glutamate synthase from the hyperthermophilic archaeon Pyrococcus sp. KOD1. Jongsareejit B, et al. **Mol Gen Genet** 1997 May;254(6):635–42

Acetylglutamate synthase from Neurospora crassa: structure and regulation of expression. Yu YG, et al. **Mol Microbiol** 1996 Nov;22(3):545–54

Sequence of the GLT1 gene from Saccharomyces cerevisiae reveals the domain structure of yeast glutamate synthase. Filetici P, et al. **Yeast** 1996 Oct;12(13):1359–66

METABOLISM

Gene cloning, sequencing and enzymatic properties of glutamate synthase from the hyperthermophilic archaeon Pyrococcus sp. KOD1. Jongsareejit B, et al. **Mol Gen Genet** 1997 May;254(6):635–42

GLUTAMATES

see related
POLYGLUTAMIC ACID
RECEPTORS, GLUTAMATE

ADMINISTRATION & DOSAGE

Aspartate/glutamate-enriched blood does not improve myocardial energy metabolism during ischemia-reperfusion: a 31P magnetic resonance spectroscopic study in isolated pig hearts. Ghomeshi HR, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1068–77; discussion 1077–80

AGONISTS

Isoflurane enhances glutamatergic agonist-stimulated nitric oxide synthesis in cultured neurons. Loeb AL, et al. **Brain Res** 1996 Sep 23;734(1-2):295–300

ANALYSIS

Liquid chromatographic determination of folate monoglutamates in fish, meat, egg, and dairy products consumed in Finland. Vahteristo LT, et al. **J AOAC Int** 1997 Mar-Apr;80(2):373–8

ANTAGONISTS & INHIBITORS

Amphetamine induction of c-fos in the nucleus accumbens is not inhibited by glutamate antagonists. Dalia A, et al. **Brain Res** 1995 Oct 2;694(1-2):299–307

Decrease in [Ca2+]c but not in cAMP Mediates L-AP4 inhibition of glutamate release: PKC-mediated suppression of this inhibitory pathway. Herrero I, et al. **Eur J Neurosci** 1996 Apr;8(4):700–9

Effects of glutamate antagonists on methamphetamine and 3,4-methylenedioxymethamphetamine-induced striatal dopamine release in vivo. Finnegan KT, et al. **J Neurochem** 1996 May;66(5):1949–58

Inhibition of glutamate uptake and proton pumping in synaptic vesicles by S-nitrosylation. Wolosker H, et al. **J Neurochem** 1996 May;66(5):1943–8

BIOSYNTHESIS

Neuronal regulation of glutamate transporter subtype expression in astrocytes. Swanson RA, et al. **J Neurosci** 1997 Feb 1;17(3):932–40

BLOOD

Elevated venous glutamate levels in (pre)catabolic conditions result at least partly from a decreased glutamate transport activity. Hack V, et al. **J Mol Med** 1996 Jun;74(6):337–43

CEREBROSPINAL FLUID

Cerebrospinal fluid gamma-aminobutyric acid and glutamate values in dogs with epilepsy. Podell M, et al. **Am J Vet Res** 1997 May;58(5):451–6

CHEMICAL SYNTHESIS

Synthesis of glycolipids: dialkyl N-[N-(4-lactonamidobutyl)succinamoyl]-L-glutamates. Zhang Z, et al. **Carbohydr Res** 1996 Sep 2;290(2):225–32

Diastereoselective synthesis of all four isomers of 3-(4-chlorophenyl) glutamic acid: identification of the isomers responsible for the potentiation of L-homocysteic acid-evoked depolarizations in neonatal rat motoneurons. Jane DE, et al. **J Med Chem** 1996 Nov 22;39(24):4738–43

Synthesis, physical properties, toxicological studies and bioavailability of L-pyroglutamic and L-glutamic acid esters of paracetamol as potentially useful prodrugs. Bousquet E, et al. **J Pharm Pharmacol** 1996 May; 48(5):479–85

CHEMISTRY

N-acetyl-L-glutamic acid. Dobson AJ, et al. **Acta Crystallogr C** 1997 Jan 15;53 (Pt 1):73–6

Capillary zone electrophoresis of oligosaccharides derivatized with N-(4-aminobenzoyl)-L-glutamic acid for ultraviolet absorbance detection. Plocek J, et al. **J Chromatogr A** 1997 Jan 3;757(1-2):215–23

METABOLISM

Heterogeneity and functional properties of subtypes of sodium-dependent glutamate transporters in the mammalian central nervous system. Robinson MB, et al. **Adv Pharmacol** 1997;37:69–115 (210 ref.)

Glutamate release in parabrachial nucleus and baroreflex alterations after vagal afferent activation. Saleh TM, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1631–40

Glutamate transport and not cellular content modulates paracellular permeability in LLC-PK1-F+ cells. Welbourne TC, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E367–70

Nutritional efficiency of succinic acid and glutamic acid dimethyl esters in colon carcinoma cells. Zhang TM, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G852–9

Differential distribution of the glutamate transporters GLT1 and rEAAC1 in rat cerebral cortex and thalamus: an in situ hybridization analysis. Torp R, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):317–26

Neurodegenerative disorders: clues from glutamate and energy metabolism. Ikonomidou C, et al. **Crit Rev Neurobiol** 1996;10(2):239–63 (301 ref.)

Selective excitatory amino acid uptake in glutamatergic nerve terminals and in glia in the rat striatum: quantitative electron microscopic immunocytochemistry of exogenous (D)-aspartate and endogenous glutamate and GABA. Gundersen V, et al. **Eur J Neurosci** 1996 Apr;8(4):758–65

Expression of high-affinity neuronal and glial glutamate transporters in the rat optic nerve. Choi I, et al. **Glia** 1997 Jul;20(3):184–92

cAMP-dependent facilitation of glutamate release by beta-adrenergic receptors in cerebrocortical nerve terminals. Herrero I, et al. **J Biol Chem** 1996 Nov 29; 271(48):30554–60

Contribution of trypsin-sensitive proteins to binding of cationic liposomes to the mouse macrophage-like cell line RAW264.7. Arima H, et al. **J Pharm Sci** 1997 Jul; 86(7):786–90

The application of pH-sensitive fluorescent dyes in lactic acid bacteria reveals distinct extrusion systems for unmodified and conjugated dyes. Glaasker E, et al. **Mol Membr Biol** 1996 Jul–Sep;13(3):173–81

Use-dependent increases in glutamate concentration activate presynaptic metabotropic glutamate receptors. Scanziani M, et al. **Nature** 1997 Feb 13;385(6617):630–4

Extrasynaptic glutamate spillover in the hippocampus: dependence on temperature and the role of active glutamate uptake. Asztely F, et al. **Neuron** 1997 Feb;18(2):281–93

Altered glutamatergic transmission in neurological disorders: from high extracellular glutamate to excessive synaptic efficacy. Obrenovitch TP, et al. **Prog Neurobiol** 1997 Jan; 51(1):39–87 (651 ref.)

Characterization of glutamate transporter function in the tiger salamander retina. Yang JH, et al. **Vision Res** 1997 Apr;37(7):827–38

PHARMACOKINETICS

Antibody-directed enzyme prodrug therapy: pharmacokinetics and plasma levels of prodrug and drug in a phase I clinical trial. Martin J, et al. **Cancer Chemother Pharmacol** 1997;40(3):189–201

Metabolism and disposition of the antifolate LY231514 in mice and dogs. Woodland JM, et al. **Drug Metab Dispos** 1997 Jun;25(6):693–700

PHARMACOLOGY

Cardiovascular responses to glutamate stimulation of diagonal band of Broca. Kirouac GJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H540–5

Some effects of 1,4-dihydroisonicotinic acid derivatives on repair pathways involved in chemical mutagenesis. Kuzhir TD, et al. **Biochem Soc Trans** 1997 Feb;25(1):139S

LY231514, a pyrrolo[2,3-d]pyrimidine-based antifolate that inhibits multiple folate-requiring enzymes. Shih C, et al. **Cancer Res** 1997 Mar 15;57(6):1116–23

Involvement of non-NMDA and NMDA receptors in glutamate-induced pressor or depressor responses of the pons and medulla. Chen SY, et al. **Clin Exp Pharmacol Physiol** 1997 Jan;24(1):46–56

Glutamate-treated rat cortical neuronal cultures die in a way different from the classical apoptosis induced by staurosporine. MacManus JP, et al. **Exp Cell Res** 1997 Jun 15;233(2):310–20

Quinoxaline chemistry. Part 7. 2-[aminobenzoates]- and 2-[aminobenzoylglutamate]-quinoxalines as classical antifolate agents. Synthesis and evaluation of in vitro anticancer, anti-HIV and antifungal activity. Loriga M, et al. **Farmaco** 1997 Mar;52(3):157–66

Dominant role of mitochondria in protection against a delayed neuronal Ca2+ overload induced by endogenous excitatory amino acids following a glutamate pulse. Khodorov B, et al. **FEBS Lett** 1996 Sep 9;393(1):135–8

Pharmacological characteristics of an outward current produced by beta-hydroxy-L-glutamic acid on a snail neurone. Zhang W, et al. **Gen Pharmacol** 1996 Apr; 27(3):499–504

AG2034: a novel inhibitor of glycinamide ribonucleotide formyltransferase. Boritzki TJ, et al. **Invest New Drugs** 1996;14(3):295–303

Diastereoselective synthesis of all four isomers of 3-(4-chlorophenyl) glutamic acid: identification of the isomers responsible for the potentiation of L-homocysteic acid-evoked depolarizations in neonatal rat motoneurons. Jane DE, et al. **J Med Chem** 1996 Nov 22;39(24):4738–43

Anion conductance behavior of the glutamate uptake carrier in salamander retinal glial cells. Billups B, et al. **J Neurosci** 1996 Nov 1;16(21):6722–31

Site-specific and sensory neuron-dependent increases in postsynaptic glutamate sensitivity accompany serotonin-induced long-term facilitation at Aplysia sensorimotor synapses. Zhu H, et al. **J Neurosci** 1997 Jul 1;17(13):4976–86

(2S,4R)-4-methylglutamic acid (SYM 2081): a selective, high-affinity ligand for kainate receptors. Zhou LM, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):422–7

Contrasting modes of action of methylglutamate derivatives on the excitatory amino acid transporters, EAAT1 and EAAT2. Vandenberg RJ, et al. **Mol Pharmacol** 1997 May; 51(5):809–15

Potent antagonists at the L-AP4- and (1S,3S)-ACPD-sensitive presynaptic metabotropic glutamate receptors in the neonatal rat spinal cord. Jane DE, et al. **Neuropharmacology** 1996;35(8):1029–35

Desensitization of kainate receptors by kainate, glutamate and diastereomers of 4-methylglutamate. Jones KA, et al. **Neuropharmacology** 1997 Jun;36(6):853–63

Effects of the methyl esters of pyruvate, succinate and glutamate on the secretory response to meglitinide analogues in rat pancreatic islets. Bakkali Nadi A, et al. **Pharmacol Res** 1996 Mar;33(3):191–4

PHYSIOLOGY

Presynaptic alpha2-adrenoceptors inhibit excitatory synaptic transmission in rat brain stem. Bertolino M, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G654–61

Role of NMDA and AMPA glutamatergic transmission in spinal c-fos expression after urinary tract irritation. Kakizaki H, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R990–6

Transmitter concentration profiles in the synaptic cleft: an analytical model of release and diffusion. Kleinle J, et al. **Biophys J** 1996 Nov;71(5):2413–26

Antipsychotic drug effects on glutamatergic activity. Lidsky TI, et al. **Brain Res** 1997 Aug 1;764(1-2):46–52

Vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase-activating polypeptide (PACAP) potentiate the glutamate-evoked release of arachidonic acid from mouse cortical neurons. Evidence for a cAMP-independent mechanism. Stella N, et al. **J Biol Chem** 1996 Sep 27; 271(39):23705–10

Diversity of nicotinic acetylcholine receptors in rat brain. V. alpha-Bungarotoxin-sensitive nicotinic receptors in olfactory bulb neurons and presynaptic modulation of glutamate release. Alkondon M, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1460–71

Maturation of a central glutamatergic synapse. Wu G, et al. **Science** 1996 Nov 8;274(5289):972–6

THERAPEUTIC USE

Biodistribution of an antibody-enzyme conjugate for antibody-directed enzyme prodrug therapy in nude mice bearing a human colon adenocarcinoma xenograft. Stribbling SM, et al. **Cancer Chemother Pharmacol** 1997; 40(4):277–84

Gene-directed enzyme prodrug therapy with a mustard prodrug/carboxypeptidase G2 combination. Marais R, et al. **Cancer Res** 1996 Oct 15;56(20):4735–42

[A preclinical evaluation of the pharmacological activity of a mixed potassium and magnesium glutamate] Berliand AS, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):16–9 (Eng. Abstr.) **(Rus)**

TOXICITY

Synergy by secretory phospholipase A2 and glutamate on inducing cell death and sustained arachidonic acid metabolic changes in primary cortical neuronal cultures. Kolko M, et al. **J Biol Chem** 1996 Dec 20;271(51):32722–8

Activation of the metabotropic glutamate receptor mGluR5 prevents glutamate toxicity in primary cultures of cerebellar neurons. Montoliu C, et al. **J Pharmacol Exp Ther** 1997 May;281(2):643–7

[Ouabain modulates the toxic effect of glutamate in dissociated cultures of granular cells in the rat cerebellum] Stel'mashuk EV, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):163–6 **(Rus)**

URINE

Identification and assay of folate catabolites in human urine. McPartlin J, et al. **Methods Enzymol** 1997;281:70–7

GLUTAMIC ACID

see related

RECEPTORS, GLUTAMATE

Selection of diphtheria toxin active-site mutants in yeast. Rediscovery of glutamic acid-148 as a key residue. Fu H, et al. **Adv Exp Med Biol** 1997;419:45–52

The distal glutamic acid as an acid-base catalyst in the distal site of horseradish peroxidase. Tanaka M, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):393–9

Actinidin and chymopapain B provide variation in the common electrostatic environment of Glu50 in papain and caricain. Reid JD, et al. **Biochem Soc Trans** 1997 Feb; 25(1):89S

Functional role of the active site glutamate-368 in rat short chain acyl-CoA dehydrogenase. Battaile KP, et al. **Biochemistry** 1996 Dec 3;35(48):15356–63

An essential role for water in an enzyme reaction mechanism: the crystal structure of the thymidylate synthase mutant E58Q. Sage CR, et al. **Biochemistry** 1996 Dec 17; 35(50):16270–81

Measurement of membrane potential and [Ca2+]i in cell ensembles: application to the study of glutamate taste in mice. Hayashi Y, et al. **Biophys J** 1996 Aug;71(2):1057–70

A patient with type 2N von Willebrand disease is heterozygous for a new mutation: Gly22Glu. Demonstration of a defective expression of the second allele by the use of monoclonal antibodies. Gu J, et al. **Blood** 1997 May 1;89(9):3263–9

Estimation of age-dependent effective dose coefficients for nitrogen-13 L-glutamate [letter] Gupta MM, et al. **Eur J Nucl Med** 1997 Mar;24(3):345–6

Plasmodium chabaudi: immunogenicity of a highly antigenic glutamate-rich protein. Wiser MF, et al. **Exp Parasitol** 1997 Jan;85(1):43–54

Evidence that Arg-295, Glu-378, and Glu-380 are active-site residues of the ADP-ribosyltransferase activity of iota toxin. Perelle S, et al. **FEBS Lett** 1996 Oct 21; 395(2-3):191–4

The role of glutamate in the pathophysiology of Parkinson's disease. Blandini F, et al. **Funct Neurol** 1996 Jan-Feb; 11(1):3–15 (95 ref.)

Induction of actinorhodin production by rpsL (encoding ribosomal protein S12) mutations that confer streptomycin resistance in Streptomyces lividans and Streptomyces coelicolor A3(2). Shima J, et al. **J Bacteriol** 1996 Dec; 178(24):7276–84

Proteasomal degradation of spermidine/spermine N1-acetyltransferase requires the carboxyl-terminal glutamic acid residues. Coleman CS, et al. **J Biol Chem** 1997 May 2;272(18):12164–9

The NR2B-specific interactions of polyamines and protons with the N-methyl-D-aspartate receptor. Gallagher MJ, et al. **J Biol Chem** 1997 Oct 3;272(40):24971–9

Critical role of glutamate in a central leucine-rich repeat of decorin for interaction with type I collagen. Kresse H, et al. **J Biol Chem** 1997 Jul 18;272(29):18404–10

Subpellicular and flagellar microtubules of Trypanosoma brucei are extensively glutamylated. Schneider A, et al. **J Cell Sci** 1997 Feb;110 (Pt 4):431–7

PEST sequences and regulation by proteolysis. Rechsteiner M, et al. **Trends Biochem Sci** 1996 Jul;21(7):267–71 (48 ref.)

[Protection of excitotoxicity] Kwak S. **No To Shinkei** 1996 Dec;48(12):1077–85 (35 ref.) **(Jpn)**

ADVERSE EFFECTS

[The Chinese restaurant syndrome (letter)] García Ortiz JC, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):518 **(Spa)**

ANALOGS & DERIVATIVES

Antirheumatic agents. III. Novel methotrexate derivatives bearing an indoline ring and a modified ornithine or glutamic acid. Matsuoka H, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1146–50

4(R)- and 4(S)-(5-phenylpentyl)-glutamic acids attenuate excitatory postsynaptic potential on hippocampus without inhibiting postsynaptic NMDA and AMPA receptors. Tyan SH, et al. **Chin J Physiol** 1996;39(2):131–7

Diastereoselective synthesis of all four isomers of 3-(4-chlorophenyl) glutamic acid: identification of the isomers responsible for the potentiation of L-homocysteic acid-evoked depolarizations in neonatal rat motoneurons. Jane DE, et al. **J Med Chem** 1996 Nov 22;39(24):4738–43

AMPA receptor agonists: synthesis, protolytic properties, and pharmacology of 3-isothiazolol bioisosteres of glutamic acid. Matzen L, et al. **J Med Chem** 1997 Feb 14;40(4):520–7

Mechanisms of H+ and Na+ changes induced by glutamate, kainate, and D-aspartate in rat hippocampal astrocytes. Rose CR, et al. **J Neurosci** 1996 Sep 1;16(17):5393–404

ANALYSIS

Determination of acetyl-CoA enrichment in rat heart and skeletal muscle by 1H nuclear magnetic resonance analysis of glutamate in tissue extracts. Jones JG, et al. **Anal Biochem** 1997 Jul 1;249(2):201–6

Spectrophotometric assay of D-aspartate and D-glutamate using D-aspartate oxidase with malate dehydrogenase and glutamate dehydrogenase. Wakayama M, et al. **Anal Biochem** 1997 Aug 1;250(2):252–3

Glutamine biosensors for biotechnology applications, with suppression of the endogenous glutamate signal. Mădăraş MB, et al. **Anal Chem** 1997 Sep 15;69(18):3674–8

Glutamate-enriched inputs from the mesopontine tegmentum to the entopeduncular nucleus in the rat. Clarke NP, et al. **Eur J Neurosci** 1996 Jul;8(7):1363–76

The glutamatergic innervation of oxytocin- and vasopressin-secreting neurons in the rat supraoptic nucleus and its contribution to lactation-induced synaptic plasticity. El Majdoubi M, et al. **Eur J Neurosci** 1996 Jul;8(7):1377–89

In vivo blockade of thalamic GABA(B) receptors increases excitatory amino-acid levels. Nyitrai G, et al. **Eur J Pharmacol** 1996 Dec 30;318(2-3):295–300

The development of excitatory transmitter amino acid-containing neurons in the rat visual cortex. A light and electron microscopic immunocytochemical study. Dori I, et al. **Exp Brain Res** 1996 Aug;110(3):347–59

Measurement of gluconeogenesis and pyruvate recycling in

the rat liver: a simple analysis of glucose and glutamate isotopomers during metabolism of [1,2,3-(13)C3]propionate. Jones JG, et al. **FEBS Lett** 1997 Jul 21;412(1):131-7

Immunohistochemical studies of localization and co-localization of glutamate, aspartate and GABA in the anterior thalamic nuclei, retrosplenial granular cortex, thalamic reticular nucleus and mammillary nuclei of the rat. Gonzalo-Ruiz A, et al. **J Chem Neuroanat** 1996 Dec; 12(2):77-84

Fluorimetric method of analysis for D-norpseudoephedrine hydrochloride, glycine and L-glutamic acid by reversed-phase high-performance liquid chromatography. Swanepoel E, et al. **J Chromatogr A** 1996 Apr 5; 729(1-2):287-91

Improved method for the measurement of glutamate and aspartate using capillary electrophoresis with laser induced fluorescence detection and its application to brain microdialysis. Dawson LA, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):455-60

Glutamate measured by 6-s resolution brain microdialysis: capillary electrophoretic and laser-induced fluorescence detection application. Tucci S, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):343-9

Dual-enzyme assay of glutamate in single cells based on capillary electrophoresis. Wang Z, et al. **J Chromatogr B Biomed Appl** 1997 Jul 18;695(1):59-65

Glutamate-positive neurons and terminals in the cat periaqueductal gray matter (PAG): a light and electron microscopic immunocytochemical study. Barbaresi P, et al. **J Comp Neurol** 1997 Jul 7;383(3):381-96

Changes in glutamate immunoreactivity in the somatic sensory cortex of adult monkeys induced by nerve cuts. Conti F, et al. **J Comp Neurol** 1996 May 13;368(4):503-15

Differential distribution of AMPA receptors and glutamate during pre- and postnatal development in the visual cortex of ferrets. Herrmann K. **J Comp Neurol** 1996 Nov 4; 375(1):1-17

Glutamate and aspartate immunoreactive neurons of the rat basolateral amygdala: colocalization of excitatory amino acids and projections to the limbic circuit. Mcdonald AJ. **J Comp Neurol** 1996 Feb 12;365(3):367-79

Postembedding immunocytochemistry demonstrates directly that both retinal and cortical terminals in the cat superior colliculus are glutamate immunoreactive. Mize RR, et al. **J Comp Neurol** 1996 Aug 5;371(4):633-48

Vesicle shape and amino acids in synaptic inputs to phrenic motoneurons: do all inputs contain either glutamate or GABA? Murphy SM, et al. **J Comp Neurol** 1996 Sep 16; 373(2):200-19

Distribution of GABA, glycine, and glutamate immunoreactivities in the vestibular nuclear complex of the frog. Reichenberger I, et al. **J Comp Neurol** 1997 Jan 13;377(2):149-64

Glutamatergic connections of the auditory midbrain: selective uptake and axonal transport of D-[3H]aspartate. Saint Marie RL. **J Comp Neurol** 1996 Sep 16;373(2):255-70

In situ measurement of glutamate concentrations in the periportal, intermediate, and pericentral zones of rat liver. Geerts WJ, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1217-29

Glutamatergic enteric neurons. Liu MT, et al. **J Neurosci** 1997 Jun 15;17(12):4764-84

Detection of glutamate/glutamine resonances by 1H magnetic resonance spectroscopy at 0.5 tesla. Prost RW, et al. **Magn Reson Med** 1997 Apr;37(4):615-8

Glutamate in the glomus cells of the cat carotid body: immunocytochemistry and in vitro release. Torrealba F, et al. **Neurochem Int** 1996 May-Jun;28(5-6):625-31

Alpha isoform of calcium-calmodulin dependent protein kinase II (CAM II kinase-alpha) restricted to excitatory synapses in the CA1 region of rat hippocampus. Liu X, et al. **Neuroreport** 1997 Apr 14;8(6):1475-9

Glutamatergic projections from the rostral hypothalamus to the periaqueductal grey. Parry DM, et al. **Neuroreport** 1996 Jun 17;7(9):1536-40

Distribution and projection of the medullary cardiovascular control neurons containing glutamate, glutamic acid decarboxylase, tyrosine hydroxylase and phenylethanolamine N-methyltransferase in rats. Suzuki T, et al. **Neurosci Res** 1997 Jan;27(1):9-19

Glutamate- and GABA-immunoreactive synapses on sympathetic preganglionic neurons caudal to a spinal cord transection in rats. Llewellyn-Smith IJ, et al. **Neuroscience** 1997 Oct;80(4):1225-35

Lactation-induced plasticity in the supraoptic nucleus augments axodendritic and axosomatic GABAergic and glutamatergic synapses: an ultrastructural analysis using the disector method. El Majdoubi M, et al. **Neuroscience** 1997 Oct;80(4):1137-47

Increased striatal glutamate transporter by repeated intermittent administration of methamphetamine. Shirai Y, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):161-4

Effect of methamphetamine on glutamate-positive neurons in the adult and developing rat somatosensory cortex. Pu C, et al. **Synapse** 1996 Aug;23(4):328-34

Glutamate immunoreactivity in the cat retina: a quantitative study. Jojich L, et al. **Vis Neurosci** 1996 Jan-Feb; 13(1):117-33

[Miniature thin layer biosensors which are sensitive to glutamate and glutamine] Tiutrina GV, et al. **Vopr Med Khim** 1997 Jan-Feb;43(1):20-8 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Afferent input from peripheral chemoreceptors in response to hypoxia and amino acid neurotransmitter generation in the medulla. Kazemi H, et al. **Adv Exp Med Biol** 1996; 410:365-9

A dtsR gene-disrupted mutant of Brevibacterium lactofermentum requires fatty acids for growth and efficiently produces L-glutamate in the presence of an excess of biotin. Kimura E, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):157-61

GDH3 encodes a glutamate dehydrogenase isozyme, a previously unrecognized route for glutamate biosynthesis in Saccharomyces cerevisiae. Avendaño A, et al. **J Bacteriol** 1997 Sep;179(17):5594-7

Role of the citrate pathway in glutamate biosynthesis by Streptococcus mutans. Cvitkovitch DG, et al. **J Bacteriol** 1997 Feb;179(3):650-5

beta-amyloid protein enhances macrophage production of oxygen free radicals and glutamate. Klegeris A, et al. **J Neurosci Res** 1997 Jul 15;49(2):229-35

BLOOD

Low plasma glutamine in combination with high glutamate levels indicate risk for loss of body cell mass in healthy individuals: the effect of N-acetyl-cysteine. Kinscherf R, et al. **J Mol Med** 1996 Jul;74(7):393-400

CEREBROSPINAL FLUID

Excess glutamate levels in the cerebrospinal fluid predict clinical outcome of bacterial meningitis. Spranger M, et al. **Arch Neurol** 1996 Oct;53(10):992-6

Cerebrospinal fluid concentrations of glutamate and GABA during perinatal cerebral hypoxia-ischemia and seizures. Cataltepe O, et al. **Brain Res** 1996 Feb 19;709(2):326-30

Excess glutamate in the cerebrospinal fluid in bacterial meningitis. Spranger M, et al. **J Neurol Sci** 1996 Nov; 143(1-2):126-31

Elevated glutamate in the cerebrospinal fluid of patients with HIV dementia [letter] [see comments] Ferrarese C, et al. **JAMA** 1997 Feb 26;277(8):630. Comment in: JAMA 1997 Jun 25;277(24):1931.

Increased CSF glutamate following injection of ALS immunoglobulins. La Bella V, et al. **Neurology** 1997 May; 48(5):1270-2

High levels of cerebrospinal fluid glutamate in Rett syndrome. Lappalainen R, et al. **Pediatr Neurol** 1996 Oct; 15(3):213-6

Duration of glutamate release after acute ischemic stroke. Dávalos A, et al. **Stroke** 1997 Apr;28(4):708-10

CHEMISTRY

The mannose-binding protein A region of glutamic acid185-alanine221 can functionally replace the surfactant protein A region of glutamic acid195-phenylalanine228 without loss of interaction with lipids and alveolar type II cells. Honma T, et al. **Biochemistry** 1997 Jun 10; 36(23):7176-84

Functional transitions in myosin: role of highly conserved Gly and Glu residues in the active site. Onishi H, et al. **Biochemistry** 1997 Apr 1;36(13):3767-72

Glu46 donates a proton to the 4-hydroxycinnamate anion chromophore during the photocycle of photoactive yellow protein. Xie A, et al. **Biochemistry** 1996 Nov 26; 35(47):14671-8

Hepatic accumulation of glutamic acid branched neogalactosyllipid modified liposomes. Murahashi N, et al. **Biol Pharm Bull** 1997 Mar;20(3):259-66

Conformational analysis of glutamic acid analogues as probes of glutamate receptors using molecular modelling and NMR methods. Comparison with specific agonists. Todeschi N, et al. **Bioorg Med Chem** 1997 Feb;5(2):335-52

1H NMR evidence that Glu-38 interacts with the N-terminal functional domain in interleukin-8. Rajarathnam K, et al. **FEBS Lett** 1996 Dec 9;399(1-2):43-6

The glutamic acid residue at amino acid 261 of the alpha subunit is a determinant of the intrinsic efficiency of RNA polymerase at the metE core promoter in Escherichia coli. Jafri S, et al. **J Bacteriol** 1996 Dec;178(23):6810-6

Catalytic role of the alpha-carboxylate of the Glu residue of glutathione in glutathione S-transferases. Zheng YJ, et al. **J Biomol Struct Dyn** 1996 Oct;14(2):231-3

Salt-dependent conformational diversity of alternating poly (Glu-Leu). Bertrand M, et al. **J Pept Res** 1997 Mar; 49(3):269-72

Vitamin K-dependent carboxylase. In vitro inhibitory activity of cyclopentane and cyclohexane-derived analogues of glutamic acid and their conformational study by NMR and molecular dynamics in aqueous solution. Larue V, et al. **J Pept Res** 1997 Jan;49(1):28-45

Ultrastructural localization of glutamate and aspartate immunoreactivities in gerbil inner hair cells. Liu TC. **ORL J Otorhinolaryngol Relat Spec** 1997 May-Jun; 59(3):131-4

The role of Glu87 and Trp89 in the lid of Humicola lanuginosa lipase. Martinelle M, et al. **Protein Eng** 1996 Jun;9(6):519-24

The influence of Glu44 and Glu56 of cytochrome b5 on the protein structure and interaction with cytochrome c. Sun YL, et al. **Protein Eng** 1996 Jul;9(7):555-8

Importance of van der Waals contact between Glu 35 and Trp 109 to the catalytic action of human lysozyme. Muraki M, et al. **Protein Sci** 1997 Feb;6(2):473-6

The roles of residues Tyr150, Glu272, and His314 in class C beta-lactamases. Dubus A, et al. **Proteins** 1996 Aug; 25(4):473-85

The linker of calmodulin lacking Glu84 is elongated in solution, although it is bent in the crystal. Kataoka M, et al. **Proteins** 1996 Jul;25(3):335-41

DRUG EFFECTS

Serum prevents glutamate-induced mitochondrial calcium accumulation in primary neuronal cultures. Dux E, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):264-72

Neurotoxicity of cysteine: interaction with glutamate. Puka-Sundvall M, et al. **Brain Res** 1995 Dec 24; 705(1-2):65-70

Glutamate, excitotoxicity and amyotrophic lateral sclerosis. Shaw PJ, et al. **J Neurol** 1997 May;244 Suppl 2:S3-14 (130 ref.)

Inhibition of astrocyte glutamate uptake by reactive oxygen species: role of antioxidant enzymes. Sorg O, et al. **Mol Med** 1997 Jul;3(7):431-40

Prolonged treatment with the atypical antipsychotic agent remoxipride reduces extracellular glutamate levels in the striatum of freely moving rats. Magnusson O, et al. **Pharmacol Toxicol** 1997 Jul;81(1):53-6

GENETICS

Identification of an E689K substitution as the molecular basis of the human acid alpha-glucosidase type 4 allozyme (GAA*4). Huie ML, et al. **Ann Hum Genet** 1996 Sep;60 (Pt 5):365-8

Effects of two hypertrophic cardiomyopathy mutations in alpha-tropomyosin, Asp175Asn and Glu180Gly, on Ca2+ regulation of thin filament motility. Bing W, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):760-4

Replacement of Lys by Glu in a transmembrane segment strongly impairs the function of the uracil permease from Saccharomyces cerevisiae. Urban-Grimal D, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):847-51

Glutamate-194 to cysteine mutation inhibits fast light-induced proton release in bacteriorhodopsin. Balashov SP, et al. **Biochemistry** 1997 Jul 22;36(29):8671-6

Electrostatic influence of QA reduction on the IR vibrational mode of the 10a-ester C==O of HA demonstrated by mutations at residues Glu L104 and Trp L100 in reaction centers from Rhodobacter sphaeroides. Breton J, et al. **Biochemistry** 1997 Apr 15;36(15):4515-25

Biochemical characterization of purified, human recombinant Lys304-->Glu medium-chain acyl-CoA dehydrogenase containing the common disease-causing mutation and comparison with the normal enzyme. Kieweg V, et al. **Eur J Biochem** 1997 Jun 1;246(2):548-56

Substitution of glutamic 779 with alanine in the Na,K-ATPase alpha subunit removes voltage dependence of ion transport. Argüello JM, et al. **J Biol Chem** 1996 Oct 4;271(40):24610-6

Site-directed mutagenesis of glutamate 166 in two beta-lactamases. Kinetic and molecular modeling studies. Guillaume G, et al. **J Biol Chem** 1997 Feb 28; 272(9):5438-44

Identification of two glutamic acid residues essential for catalysis in the beta-glycosidase from the thermoacidophilic archaeon Sulfolobus solfataricus. Moracci M, et al. **Protein Eng** 1996 Dec;9(12):1191-5

IMMUNOLOGY

Differential glutamate immunoreactivity in glial cells of the retino-recipient layer of the viper optic tectum following retinal ablation. A quantitative EM immunogold study. Repérant J, et al. **Brain Res** 1997 Jul 4;761(2):321-8

Demonstration of glutamate immunoreactivity in vagal sensory afferents in the nucleus tractus solitarius of the rat. Sykes RM, et al. **Brain Res** 1997 Jul 11;762(1-2):1-11

Glutamate and aspartate immunoreactivity in the reciprocal projections between the anterior thalamic nuclei and the retrosplenial granular cortex in the rat. Gonzalo-Ruiz A, et al. **Brain Res Bull** 1997;42(4):309-21

Enrichment of glutamate-like immunoreactivity in the retinotectal terminals of the viper Vipera aspis: an electron microscope quantitative immunogold study. Repérant J, et al. **J Chem Neuroanat** 1997 May;12(4):267-80

Electron microscopy of immunoreactivity patterns for glutamate and gamma-aminobutyric acid in synaptic glomeruli of the feline spinal trigeminal nucleus (Subnucleus Caudalis). Iliakis B, et al. **J Comp Neurol** 1996 Mar 11;366(3):465-77

Glu227-->Lys substitution in the acidic loop of major histocompatibility complex class I alpha 3 domain distinguishes low avidity CD8 coreceptor and avidity-enhanced CD8 accessory functions. Shen L, et al. **J Exp Med** 1996 Nov 1;184(5):1671-83

Glutamate immunoreactivity in the tiger salamander retina differentiates between GABA-immunoreactive and glycine-immunoreactive amacrine cells. Yang CY. **J Neurocytol** 1996 Jul;25(7):391-403

Methamphetamine alters presynaptic glutamate immunoreactivity in the caudate nucleus and motor cortex. Burrows KB, et al. **Synapse** 1997 Oct;27(2):133-44

METABOLISM

The role of glutamate reuptake in regulation of glutamate responses in Aplysia neurons. Carpenter DO, et al. **Acta Biol Hung** 1995;46(2-4):363-73

Increased levels of glutamate in patients with subarachnoid haemorrhage as measured by intracerebral microdialysis. Nilsson OG, et al. **Acta Neurochir Suppl (Wien)** 1996; 67:45-7

Origins of glutamate release in ischaemia. Obrenovitch TP. **Acta Neurochir Suppl (Wien)** 1996;66:50-5 (49 ref.)

In-vivo microdialysis study of extracellular glutamate response to temperature variance in subarachnoid hemorrhage. Shuaib A, et al. **Acta Neurochir Suppl (Wien)** 1996;67:53-8

Glutamate release and cerebral blood flow after severe human head injury. Zauner A, et al. **Acta Neurochir Suppl (Wien)** 1996;67:40-4

A novel action of lithium: stimulation of glutamate release and inositol 1,4,5 trisphosphate accumulation via activation of the N-methyl D-aspartate receptor in monkey and mouse cerebral cortex slices. Hokin LE, et al. **Adv Enzyme Regul** 1996;36:229-44

Release of taurine and its effects on release of neurotransmitter amino acids in rat cerebral cortex. Kamisaki Y, et al. **Adv Exp Med Biol** 1996;403:445-54

Distributions of taurine, glutamate, and glutamate receptors during post-natal development and plasticity in the rat brain. Magnusson KR. **Adv Exp Med Biol** 1996;403:435-44

Excitotoxicity and excitoprotection in vitro. Mattson MP, et al. **Adv Neurol** 1996;71:1-30; discussion 30-5 (267 ref.)

Glutamate transport regulation of renal glutaminase flux in vivo. Carter P, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E521-7

Circadian rhythm and response to light of extracellular glutamate and aspartate in rat suprachiasmatic nucleus. Honma S, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R579-85

Vitamin B12 enhances GABA content but reduces glutamate content in the rat suprachiasmatic nucleus. Ikeda M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R359-63

Use of labeling pattern of liver glutamate to calculate rates of citric acid cycle and gluconeogenesis. Large V, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E51-8

Mercuric chloride uncouples glutamate uptake from the countertransport of hydroxyl equivalents. Nagaraja TN, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1487-93

Enteral glutamate is the preferential source for mucosal glutathione synthesis in fed piglets. Reeds PJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E408-15

Glutamine or glutamate release by the liver constitutes a major mechanism for nitrogen salvage. Rémésy C, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G257-64

Regional differentiation in the rat aorta for a novel signaling pathway: leucine to glutamate. Schachter D, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1484-92

Changes in myocardial concentration of glutamate and aspartate during coronary artery surgery. Suleiman MS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1063-9

TCA cycle flux estimates from NMR- and GC-MS-determined [13C]glutamate isotopomers in liver. Vogt JA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C2049-62

Glutamate transport modulation of paracellular permeability across LLC-PK1-F+ monolayers. Welbourne TC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E889-95

Lamotrigine inhibits extracellular glutamate accumulation during transient global cerebral ischemia in rabbits. Bacher A, et al. **Anesthesiology** 1997 Feb;86(2):459-63

Delayed neuronal degeneration results from endogenous glutamate excess. Possible role in NP-SLE. Volpe BT. **Ann N Y Acad Sci** 1997 Aug 14;823:185-7 (23 ref.)

Hypoxia-ischemia causes abnormalities in glutamate transporters and death of astroglia and neurons in newborn striatum. Martin LJ, et al. **Ann Neurol** 1997 Sep; 42(3):335-48

Sodium ion-dependent hydrogen production in Acidaminococcus fermentans. Härtel U, et al. **Arch Microbiol** 1996 Nov;166(5):350-6

Elevated gamma-aminobutyric acid, glutamate, and vascular endothelial growth factor levels in the vitreous of patients with proliferative diabetic retinopathy. Ambati J, et al. **Arch Ophthalmol** 1997 Sep;115(9):1161-6

Sodium-dependent and -independent transport of L-glutamate in the rat intestinal crypt-like cell line IEC-17. Mordrelle A, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):244-7

The fate of glutamate in different brain regions of the chick during Newcastle disease virus infection. Lokanatha V, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):215-21

Structure/function relationships in glutamate transporters. Kanner BI. **Biochem Soc Trans** 1996 Aug;24(3):843-6 (28 ref.)

Interaction between anionic amino acids and the mammary tissue (Na(+))-glutamate) cotransporter. Millar ID, et al. **Biochem Soc Trans** 1996 May;24(2):333S

Induction of high affinity glutamate transport activity by amino acid deprivation is dependent on cellular glutamate concentrations in renal epithelial cells does not involve an increase in the amount of transporter protein. Nicholson B, et al. **Biochem Soc Trans** 1996 Aug;24(3):481S

Mutagenesis of acidic residues in the oxygenase domain of inducible nitric-oxide synthase identifies a glutamate involved in arginine binding. Gachhui R, et al. **Biochemistry** 1997 Apr 29;36(17):5097-103

Structure-reactivity relationships for beta-galactosidase (Escherichia coli, lac Z). 3. Evidence that Glu-461 participates in Brønsted acid-base catalysis of beta-D-galactopyranosyl group transfer. Richard JP, et al. **Biochemistry** 1996 Sep 24;35(38):12377-86

The DNA-directed in vitro protein synthesizing system of Salmonella typhimurium: the effect of glutamate substitution. Choy HE. **Biochim Biophys Acta** 1997 Jul 17; 1353(1):61-8

Glutamate 94 of [2Fe-2S]-ferredoxins is important for efficient electron transfer in the 1:1 complex formed with ferredoxin-glutamate synthase (GltS) from Synechocystis sp. PCC 6803. Schmitz S, et al. **Biochim Biophys Acta** 1996 Nov 12;1277(1-2):135-40

Continuous monitoring of L-glutamate released from cultured nerve cells by an online sensor coupled with micro-capillary sampling. Niwa O, et al. **Biosens Bioelectron** 1997;12(4):311-9

Isoflurane increases the uptake of glutamate in synaptosomes from rat cerebral cortex. Larsen M, et al. **Br J Anaesth** 1997 Jan;78(1):55-9

Pharmacologically distinct GABAB receptors that mediate inhibition of GABA and glutamate release in human neocortex. Bonanno G, et al. **Br J Pharmacol** 1997 Jan; 120(1):60-4

Metabotropic glutamate receptors, transmitter output and fatty acids: studies in rat brain slices. Lombardi G, et al. **Br J Pharmacol** 1996 Jan;117(1):189-95

GABA, glutamate and substance P-like immunoreactivity release: effects of novel GABAB antagonists. Teoh H, et al. **Br J Pharmacol** 1996 Jul;118(5):1153-60

Effect of lactic acid on L-glutamate uptake in cultured astrocytes: mechanistic considerations. Bender AS, et al. **Brain Res** 1997 Mar 7;750(1-2):59-66

Extracellular levels of glutamate and aspartate in the entopeduncular nucleus of the rat determined by microdialysis: regulation by striatal dopamine D2 receptors via the indirect striatal output pathway? Biggs CS, et al. **Brain Res** 1997 Apr 4;753(1):163-75

Consumption of a high dietary dose of monosodium glutamate fails to affect extracellular glutamate levels in the hypothalamic arcuate nucleus of adult rats. Bogdanov MB, et al. **Brain Res** 1996 Oct 14;736(1-2):76-81

Immediate and delayed effects of in vitro ischemia on glutamate efflux from guinea-pig cerebral cortex slices. Calò G, et al. **Brain Res** 1997 Mar 21;751(2):300-6

Proline-induced potentiation of glutamate transmission. Cohen SM, et al. **Brain Res** 1997 Jul 4;761(2):271-82

Synaptic terminals immunolabelled against glutamate in the lobus parolfactorius of domestic chicks (Gallus domesticus) in relation to afferents from the archistriatum. Csillag A, et al. **Brain Res** 1997 Mar 7;750(1-2):171-9

Static muscle contraction elicits a baroreflex-dependent increase in glutamate concentration in the ventrolateral medulla. Hand GA, et al. **Brain Res** 1997 Feb 14; 748(1-2):211-8

Cultured astrocytes express proteins involved in vesicular glutamate release. Jeftinija SD, et al. **Brain Res** 1997 Mar 7;750(1-2):41-7

Dopamine regulation of extracellular glutamate in the nucleus accumbens. Kalivas PW, et al. **Brain Res** 1997 Jun 27; 761(1):173-7

Effect of a pharmacological stressor on glutamate efflux in the prefrontal cortex. Karreman M, et al. **Brain Res** 1996 Apr 15;716(1-2):180-2

Kinetic analysis of glutamate transport by the miniswine choroid plexus in vitro. Kim CS, et al. **Brain Res** 1996 Feb 12;709(1):59-64

Glutamate, glutamine and glutamine synthetase in the neonatal rat brain following hypoxia. Krajnc D, et al. **Brain Res** 1996 Jan 22;707(1):134-7

Presynaptic glutamatergic function in dentate gyrus in vivo is diminished by chronic exposure to inorganic lead. Lasley SM, et al. **Brain Res** 1996 Oct 14;736(1-2):125-34

Cyclic AMP endogenously enhances synaptic strength of developing glutamatergic synapses in serum-free microcultures of rat hippocampal neurons. Lessmann V, et al. **Brain Res** 1997 Jul 18;763(1):111-22

Gonadal hormones alter hypothalamic GABA and glutamate levels. Luine VN, et al. **Brain Res** 1997 Jan 30;747(1):165-8

Regulation of glutamate release via NMDA and 5-HT1A receptors in guinea pig dentate gyrus. Matsuyama S, et al. **Brain Res** 1996 Jul 29;728(2):175-80

The determination of the extracellular concentration of brain glutamate using quantitative microdialysis. Miele M, et al. **Brain Res** 1996 Jan 22;707(1):131-3

Modulation of extracellular glutamate concentration by nitric oxide synthase inhibitor in rat transient forebrain ischemia. Nanri K, et al. **Brain Res** 1996 Nov 4;738(2):243-8

NMDA receptor activation induces glutamate release through nitric oxide synthesis in guinea pig dentate gyrus. Nei K, et al. **Brain Res** 1996 Jul 22;728(1):105-10

Co-localization of carnosine and glutamate in photoreceptors and bipolar cells of the frog retina. Panzanelli P, et al. **Brain Res** 1997 May 30;758(1-2):143-52

The inhibitory effects of beta-amyloid on glutamate and glucose uptakes by cultured astrocytes. Parpura-Gill A, et al. **Brain Res** 1997 Apr 18;754(1-2):65-71

Mechanisms of glutamate and aspartate release in the ischemic rat cerebral cortex. Phillis JW, et al. **Brain Res** 1996 Aug 19;730(1-2):150-64

Involvement of the glutamatergic metabotropic receptors in the regulation of glutamate uptake and extracellular excitatory amino acid levels in the striatum of chloral hydrate-anesthetized rats. Samuel D, et al. **Brain Res** 1996 Nov 11;739(1-2):156-62

Effect of ethanol on extracellular 5-HT and glutamate in the nucleus accumbens and prefrontal cortex: comparison between the Lewis and Fischer 344 rat strains. Selim M, et al. **Brain Res** 1996 Apr 15;716(1-2):157-64

Inhibitory effects of diltiazem, an L-type Ca2+ channel blocker, on naloxone-increased glutamate levels in the locus coeruleus of opioid-dependent rats. Tokuyama S, et al. **Brain Res** 1996 May 25;722(1-2):212-6

Glutamate as a primary afferent neurotransmitter in the medial vestibular nucleus as detected by in vivo microdialysis. Yamanaka T, et al. **Brain Res** 1997 Jul 11; 762(1-2):243-6

Potassium channel opener reduces extracellular glutamate concentration in rat focal cerebral ischemia. Fujita H, et al. **Brain Res Bull** 1997;43(4):365-8

Sodium-dependent proline and glutamate uptake by hippocampal synaptosomes during postnatal development. Cohen SM, et al. **Brain Res Dev Brain Res** 1997 Jun 18; 100(2):230-3

Glutamate release correlates with brain-derived neurotrophic factor and trkB mRNA expression in the CA1 region of rat hippocampus. Falkenberg T, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):317-27

Altered metabolite exchange between subcellular compartments in intact postischemic rabbit hearts. Lewandowski ED, et al. **Circ Res** 1997 Aug;81(2):165-75

Excitatory mechanisms in retinal ganglion cell death in primary open angle glaucoma (POAG). Dreyer EB, et al. **Clin Neurosci** 1997;4(5):270-3 (24 ref.)

Synaptic transmission: well-placed modulators. Forsythe ID, et al. **Curr Biol** 1997 Jun 1;7(6):R362-5 (21 ref.)

The Drosophila tumor suppressor gene, dlg, is involved in structural plasticity at a glutamatergic synapse. Guan B, et al. **Curr Biol** 1996 Jun 1;6(6):695-706

Glutamate uptake occurs at an early stage of synaptic vesicle recycling. Prior IA, et al. **Curr Biol** 1997 May 1;7(5):353-6

Normal glutamate metabolism in Alzheimer's disease fibroblasts deficient in alpha-ketoglutarate dehydrogenase complex activity. Cooper AL, et al. **Dev Neurosci** 1996; 18(5-6):499-504

New insights into the compartmentation of glutamate and glutamine in cultured rat brain astrocytes. McKenna MC, et al. **Dev Neurosci** 1996;18(5-6):380-90

[1-13C]glucose metabolism in brain cells: isotopomer analysis of glutamine from cerebellar astrocytes and glutamate from granule cells. Merle M, et al. **Dev Neurosci** 1996; 18(5-6):460-8

Glutamate transporter EAAC-1-deficient mice develop dicarboxylic aminoaciduria and behavioral abnormalities but no neurodegeneration. Peghini P, et al. **EMBO J** 1997 Jul 1;16(13):3822-32

Transforming growth factor B1 decreases uptake of glutathione precursor amino acids in bovine pulmonary artery endothelial cells. Boustani MR, et al. **Endothelium** 1997;5(1):1-10

Evidence for increased cellular uptake of glutamate and aspartate in the rat hippocampus during kainic acid seizures. A microdialysis study using the 'indicator diffusion' method. Bruhn T, et al. **Epilepsy Res** 1997 Jan;26(2):363-71

Development and pharmacology of glutamate uptake in audiogenic seizures. Ortiz JG, et al. **Epilepsy Res Suppl** 1996;12:89-98

The mechanism of proline/glutamate antiport in rat kidney mitochondria. Energy dependence and glutamate-carrier involvement. Atlante A, et al. **Eur J Biochem** 1996 Oct 1;241(1):171-7

Mathematical model for evaluating the Krebs cycle flux with non-constant glutamate-pool size by 13C-NMR spectroscopy. Evidence for the existence of two types of Krebs cycles in cells. Tran-Dinh S, et al. **Eur J Biochem** 1996 Dec 1;242(2):220-7

Critical glutamic acid residues affecting the mechanism and nucleotide specificity of Vibrio harveyi aldehyde dehydrogenase. Vedadi M, et al. **Eur J Biochem** 1997 Jun 15;246(3):698-704

Increased presynaptic protein kinase C activity and glutamate release in rats with a prenatally induced hippocampal lesion. Di Luca M, et al. **Eur J Neurosci** 1997 Mar; 9(3):472-9

The competitive transport inhibitor L-trans-pyrrolidine-2, 4-dicarboxylate triggers excitotoxicity in rat cortical neuron-astrocyte co-cultures via glutamate release rather than uptake inhibition. Volterra A, et al. **Eur J Neurosci** 1996 Sep;8(9):2019-28

Precipitated kappa-opioid receptor agonist withdrawal increase glutamate in rat locus coeruleus. Hoshi K, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):301-6

Site-directed mutagenesis of the human adenosine A2A receptor. Critical involvement of Glu13 in agonist recognition. IJzerman AP, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):269-72

The synergism between ACPD and arachidonic acid on glutamate release in hippocampus is age-dependent. McGahon B, et al. **Eur J Pharmacol** 1996 Aug 15; 309(3):323-6

Ageing is associated with changes in glutamate release, protein tyrosine kinase and Ca2+/calmodulin-dependent protein kinase II in rat hippocampus. Mullany P, et al.

Eur J Pharmacol 1996 Aug 15;309(3):311–5
Histamine modulation of glutamate release from hippocampal synaptosomes. Rodriguez FJ, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):283–6
Duration–dependent increase in striatal glutamate following prolonged fluphenazine administration in rats. See RE, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):279–82
Effects of felbamate on veratridine– and K(+)–stimulated release of glutamate from mouse cortex. Srinivasan J, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):285–8
Evidence for release of glutamic acid, aspartic acid and substance P but not gamma–aminobutyric acid from primary afferent fibres in rat spinal cord. Teoh H, et al. **Eur J Pharmacol** 1996 Apr 29;302(1–3):27–36
Glutamate, aspartate and co–localization with calbindin in the medial thalamus. An immunohistochemical study in the rat. Frassoni C, et al. **Exp Brain Res** 1997 Jun;115(1):95–104
Evidence for collateral projections to the retrosplenial granular cortex and thalamic reticular nucleus from glutamate and/or aspartate–containing neurons of the anterior thalamic nuclei in the rat. Gonzalo–Ruiz A, et al. **Exp Brain Res** 1997 Aug;116(1):63–72
Desynchronized (REM) sleep inhibition induced by carbachol microinjections into the nucleus basalis of Meynert is mediated by the glutamatergic system. Manfridi A, et al. **Exp Brain Res** 1996 Apr;109(1):174–8
Ultrastructural subtypes of glutamate–immunoreactive terminals on rat trigeminal motoneurones and their relationships with GABA–immunoreactive terminals. Yang HW, et al. **Exp Brain Res** 1997 Mar;114(1):99–116
Inhibition of glutamate uptake causes an acute increase in aqueous humor protein. Langford MP, et al. **Exp Eye Res** 1997 Feb;64(2):157–65
Abolition of substrate–dependent currents by tyrosine mutation in the transmembrane domain of glutamate transporter. Choi I, et al. **FEBS Lett** 1997 Mar 24; 405(2):133–6
HIV–1 gp120 glycoprotein affects the astrocyte control of extracellular glutamate by both inhibiting the uptake and stimulating the release of the amino acid. Vesce S, et al. **FEBS Lett** 1997 Jul 7;411(1):107–9
Glutamate metabolism is down–regulated in astrocytes during experimental allergic encephalomyelitis. Hardin–Pouzet H, et al. **Glia** 1997 May;20(1):79–85
Swelling of Müller cells induced by AP3 and glutamate transport substrates in rat retina. Izumi Y, et al. **Glia** 1996 Aug;17(4):285–93
Ependymocytes and supra–ependymal axons in rat brain contain glutamate. Robinson SR, et al. **Glia** 1996 Aug; 17(4):345–8
Glutamate transport and metabolism in astrocytes. Sonnewald U, et al. **Glia** 1997 Sep;21(1):56–63
Evaluation of the importance of transamination versus deamination in astrocytic metabolism of [U–13C]glutamate. Westergaard N, et al. **Glia** 1996 Jun;17(2):160–8
Free alanine, aspartic acid, or glutamic acid reduce the glycation of human lens proteins. Ramakrishnan S, et al. **Glycoconj J** 1996 Aug;13(4):519–23
Glutamine synthetase and glutamate metabolism in the guinea pig cochlea. Eybalin M, et al. **Hear Res** 1996 Nov 1; 101(1–2):93–101
Adenosine A1 antagonism increases specific synaptic forms of glutamate release during anoxia, revealing a unique source of excitation. Katchman AN, et al. **Hippocampus** 1996;6(3):213–24
Release of aldehydic products from glutamate or deoxyuridine by delta–aminolevulinic acid in presence of copper ions. Singh V, et al. **Indian J Exp Biol** 1996 Mar; 34(3):208–10
Influence of photoinhibition on GABA and glutamic acid levels, and on glutamate decarboxylase activity in the testis and epididymis of the golden hamster. Frungieri MB, et al. **Int J Androl** 1996 Jun;19(3):171–8
Glutamate dependent dendritic outgrowth in developing neuronal networks of rat hippocampal cells in vitro. Nuijtinck RR, et al. **Int J Dev Neurosci** 1997 Feb; 15(1):55–60
Exchange of glutamate and gamma–aminobutyrate in a Lactobacillus strain. Higuchi T, et al. **J Bacteriol** 1997 May; 179(10):3362–4
A conserved glutamate residue, Glu–257, is important for substrate binding and transport by the Escherichia coli mannitol permease. Saraceni–Richards CA, et al. **J Bacteriol** 1997 Feb;179(4):1135–42
The rabbit kidney tubule simultaneously degrades and synthesizes glutamate. A 13C NMR study. Chauvin MF, et al. **J Biol Chem** 1997 Feb 21;272(8):4705–16
Glutamic acid 207 in rodent T–cell RT6 antigens is essential for arginine–specific ADP–ribosylation. Hara N, et al. **J Biol Chem** 1996 Nov 22;271(47):29552–5
Negatively charged anabaena flavodoxin residues (Asp144 and Glu145) are important for reconstitution of cytochrome P450 17alpha–hydroxylase activity. Jenkins CM, et al. **J Biol Chem** 1997 Sep 5;272(36):22509–13
Model applicable to NMR studies for calculating flux rates in five cycles involved in glutamate metabolism. Martin G, et al. **J Biol Chem** 1997 Feb 21;272(8):4717–28
Increased production of extracellular glutamate by the mitochondrial glutaminase following neuronal death. Newcomb R, et al. **J Biol Chem** 1997 Apr 25; 272(17):11276–82
Involvement of glutamate 399 and lysine 192 in the mechanism of human liver mitochondrial aldehyde dehydrogenase. Ni L, et al. **J Biol Chem** 1997 Jul 25; 272(30):18823–6
Evidence for the involvement of Glu–355 in the catalytic action of human beta–hexosaminidase B. Pennybacker M, et al. **J Biol Chem** 1997 Mar 21;272(12):8002–6
Aspartate 19 and glutamate 121 are critical for transport function of the myo–inositol/H+ symporter from Leishmania donovani. Seyfang A, et al. **J Biol Chem** 1997 Sep 26;272(39):24210–5
L–alpha–aminoadipate reduces glutamate release from brain tissue exposed to combined oxygen and glucose deprivation. Haugstad TS, et al. **J Cereb Blood Flow Metab** 1997 May;17(5):567–70
Relationship between extracellular glutamate concentration and voltage–sensitive calcium channel function in focal cerebral ischemia in the rat. Osuga H, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):629–36
Ischemic disruption of glutamate homeostasis in brain: quantitative immunocytochemical analyses. Ottersen OP, et al. **J Chem Neuroanat** 1996 Nov;12(1):1–14 (73 ref.)
Anatomical evidence for glutamate and/or aspartate as neurotransmitters in the geniculo–, claustro–, and cortico–cortical pathways to the cat striate cortex. Pérez–Cerdá F, et al. **J Comp Neurol** 1996 Sep 23; 373(3):422–32
Ultrastructural quantitative analysis of glutamatergic and GABAergic synaptic terminals in the phrenic nucleus after spinal cord injury. Tai Q, et al. **J Comp Neurol** 1996 Aug 26;372(3):343–55
The role of glutamate transporters in glutamate homeostasis in the brain. Takahashi M, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):401–9 (51 ref.)
Hyperammonemia–induced depletion of glutamate and branched–chain amino acids in muscle and plasma. Leweling H, et al. **J Hepatol** 1996 Nov;25(5):756–62
Rapid swelling of a CHO–K1 aspartate/glutamate transport mutant in hypo–osmotic medium. Tong X, et al. **J Membr Biol** 1997 Mar 15;156(2):131–9
Linkage between postabsorptive amino acid release and glutamate uptake in skeletal muscle tissue of healthy young subjects, cancer patients, and the elderly. Holm E, et al. **J Mol Med** 1997 Jun;75(6):454–61
The uptake of gamma–aminobutyric acid and glutamate by synaptosomes from the visual cortex of albino and pigmented rabbits. Burbridge T, et al. **J Neural Transm** 1996;103(3):299–305
Death of cultured telencephalon neurons induced by glutamate is reduced by the peptide derivative Cerebrolysin. Hutter–Paier B, et al. **J Neural Transm Suppl** 1996;47:267–73
Inhibition of glutamate transport in synaptosomes by dopamine oxidation and reactive oxygen species. Berman SB, et al. **J Neurochem** 1997 Sep;69(3):1185–95
Effects of fructose–1,6–bisphosphate on glutamate release and ATP loss from rat brain slices during hypoxia. Bickler PE, et al. **J Neurochem** 1996 Oct;67(4):1463–8
Stimulus–evoked increase of glutamate in the mediorostral neostriatum/hyperstriatum ventrale of domestic chick after auditory filial imprinting: an in vivo microdialysis study. Gruss M, et al. **J Neurochem** 1996 Mar;66(3):1167–73
Two components of glutamate exocytosis differentially affected by presynaptic modulation. Herrero I, et al. **J Neurochem** 1996 Dec;67(6):2346–54
Lesioning of deep prepiriform cortex protects against ischemic neuronal necrosis by attenuating extracellular glutamate concentrations. Kawaguchi K, et al. **J Neurochem** 1997 Jul;69(1):412–7
Impairment of glucose and glutamate transport and induction of mitochondrial oxidative stress and dysfunction in synaptosomes by amyloid beta–peptide: role of the lipid peroxidation product 4–hydroxynonenal. Keller JN, et al. **J Neurochem** 1997 Jul;69(1):273–84
Lysophosphatidic acid–induced proliferation–related signals in astrocytes. Keller JN, et al. **J Neurochem** 1997 Sep; 69(3):1073–84
Glutamate uptake impairment and neuronal damage in young and aged rats in vivo. Massieu L, et al. **J Neurochem** 1997 Sep;69(3):1151–60
Effects of subchronic clozapine and haloperidol on striatal glutamatergic synapses. Meshul CK, et al. **J Neurochem** 1996 Nov;67(5):1965–73
L–trans–pyrrolidine–2,4–dicarboxylic acid–evoked striatal glutamate levels are attenuated by calcium reduction, tetrodotoxin, and glutamate receptor blockade. Rawls SM, et al. **J Neurochem** 1997 Apr;68(4):1553–63
Endothelin evokes efflux of glutamate in cultures of rat astrocytes. Sasaki Y, et al. **J Neurochem** 1997 May; 68(5):2194–200
Muscarinic modulation of striatal dopamine, glutamate, and GABA release, as measured with in vivo microdialysis. Smolders I, et al. **J Neurochem** 1997 May;68(5):1942–8
4–hydroxynonenal, a lipid peroxidation product, rapidly accumulates following traumatic spinal cord injury and inhibits glutamate uptake. Springer JE, et al. **J Neurochem** 1997 Jun;68(6):2469–76
Brain–derived neurotrophic factor increases the stimulation–evoked release of glutamate and the levels of exocytosis–associated proteins in cultured cortical neurons from embryonic rats. Takei N, et al. **J Neurochem** 1997 Jan;68(1):370–5
Opioid effects on 45Ca2+ uptake and glutamate release in rat cerebral cortex in primary culture. Vlaskovska M, et al. **J Neurochem** 1997 Feb;68(2):517–24
Regulation of glutamate in cultures of human monocytic THP–1 and astrocytoma U–373 MG cells. Klegeris A, et al. **J Neuroimmunol** 1997 Sep;78(1–2):152–61
Glutamate, excitotoxicity and amyotrophic lateral sclerosis. Shaw PJ, et al. **J Neurol** 1997 May;244 Suppl 2:S3–14 (130 ref.)
Of known neurotransmitters, glutamate is the most likely to be released from chick cochlear hair cells. Kataoka Y, et al. **J Neurophysiol** 1996 Sep;76(3):1870–9
Transporters buffer synaptically released glutamate on a submillisecond time scale. Diamond JS, et al. **J Neurosci** 1997 Jun 15;17(12):4672–87
Temperature dependency of basal and evoked release of amino acids and calcitonin gene–related peptide from rat dorsal spinal cord. Dirig DM, et al. **J Neurosci** 1997 Jun 1;17(11):4406–14
Serotonin promotes the differentiation of glutamate neurons in organotypic slice cultures of the developing cerebral cortex. Lavdas AA, et al. **J Neurosci** 1997 Oct 15; 17(20):7872–80
Activation of glutamatergic neurotransmission by ketamine: a novel step in the pathway from NMDA receptor blockade to dopaminergic and cognitive disruptions associated with the prefrontal cortex. Moghaddam B, et al. **J Neurosci** 1997 Apr 15;17(8):2921–7
Delayed clearance of transmitter and the role of glutamate transporters at synapses with multiple release sites. Otis TS, et al. **J Neurosci** 1996 Mar 1;16(5):1634–44
Hippocampal astrocytes in situ respond to glutamate released from synaptic terminals. Porter JT, et al. **J Neurosci** 1996 Aug 15;16(16):5073–81
Vicious cycle involving Na+ channels, glutamate release, and NMDA receptors mediates delayed neurodegeneration through nitric oxide formation. Strijbos PJ, et al. **J Neurosci** 1996 Aug 15;16(16):5004–13
Gain of rod to horizontal cell synaptic transfer: relation to glutamate release and a dihydropyridine–sensitive calcium current. Witkovsky P, et al. **J Neurosci** 1997 Oct 1; 17(19):7297–306
Release of endogenous glutamate and gamma–aminobutyric acid from rat striatal tissue slices measured by an improved method of high performance liquid chromatography with electrochemical detection. Phillips JB Jr, et al. **J Neurosci Methods** 1997 Aug 22;75(2):207–14
Microdialysis monitoring of extracellular glutamate combined with the simultaneous recording of evoked field potentials in hippocampal organotypic slice cultures. Robert F, et al. **J Neurosci Methods** 1997 Jun 6;74(1):65–76
In vivo monitoring of extracellular noradrenaline and glutamate from rat brain cortex with 2–min microdialysis sampling using capillary electrophoresis with laser–induced fluorescence detection. Robert F, et al. **J Neurosci Methods** 1996 Dec 28;70(2):153–62
Glutamate release by the intact light–responsive photoreceptor layer of the Xenopus retina. Schmitz Y, et al. **J Neurosci Methods** 1996 Sep;68(1):55–60
NMR spectroscopy study of the effect of 3–nitropropionic acid on glutamate metabolism in cultured astrocytes. Bakken IJ, et al. **J Neurosci Res** 1997 Mar 15;47(6):642–9
Calcium–dependent release of endogenous glutamate from vascularly perfused rat stomach in vitro. Okuma Y, et al. **J Neurosci Res** 1996 Jun 1;44(5):507–11
Pharmacological characterisation of voltage–sensitive calcium channels and neurotransmitter release from mouse cerebellar granule cells in culture. Varming T, et al. **J Neurosci Res** 1997 Apr 1;48(1):43–52
Inhibition of glutamate uptake induces progressive accumulation of extracellular glutamate and neuronal damage in rat cortical cultures. Velasco I, et al. **J Neurosci Res** 1996 Jun 15;44(6):551–61
Local synaptic release of glutamate from neurons in the rat hypothalamic arcuate nucleus. Belousov AB, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):747–61
Stimulated release of lactate in freely moving rats is dependent on the uptake of glutamate. Demestre M, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):825–32
The source of physiologically stimulated glutamate efflux from the striatum of conscious rats. Miele M, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):745–51
The L–type Ca2+ channel is involved in microvesicle–mediated glutamate exocytosis from rat pinealocytes. Yamada H, et al. **J Pineal Res** 1996 Oct; 21(3):165–74
Microvesicle–mediated exocytosis of glutamate is a novel paracrine–like chemical transduction mechanism and inhibits melatonin secretion in rat pinealocytes. Yamada H, et al. **J Pineal Res** 1996 Oct;21(3):175–91
Elevated cerebrospinal fluid glutamate in patients with HIV–related dementia [letter; comment] Gurwitz D, et al. **JAMA** 1997 Jun 25;277(24):1931. Comment on: JAMA 1997 Feb 26;277(8):630.
Intracellular calcium oscillation in cultured rat hippocampal neurons: a model for glutamatergic neurotransmission. Tanaka T, et al. **Jpn J Pharmacol** 1996 Jan;70(1):89–93
Progression of ischaemic stroke and excitotoxic aminoacids. Castillo J, et al. **Lancet** 1997 Jan 11;349(9045):79–83
Spectroscopic imaging of human brain glutamate by water–suppressed J–refocused coherence transfer at 4.1 T. Pan JW, et al. **Magn Reson Med** 1996 Jul;36(1):7–12
13C editing of glutamate in human brain using J–refocused

coherence transfer spectroscopy at 4.1 T. Pan JW, et al. **Magn Reson Med** 1997 Mar;37(3):355–8

Flumazenil does not affect the increase in rat hippocampal extracellular glutamate concentration produced during thioacetamide-induced hepatic encephalopathy. McArdle P, et al. **Metab Brain Dis** 1996 Dec;11(4):329–342

Study of the reaction mechanism of the D-glutamic acid-adding enzyme from Escherichia coli. Vaganay S, et al. **Microb Drug Resist** 1996 Spring;2(1):51–4

Endogenous glutamate levels regulate nerve growth factor mRNA expression in the rat dentate gyrus. Gwag BJ, et al. **Mol Cells** 1997 Jun 30;7(3):425–30

Possible regulation of high-affinity glutamate uptake in synaptosomes of normal and epileptic mice. Ortiz JG, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):127–33

Inhibition of astrocyte glutamate uptake by reactive oxygen species: role of antioxidant enzymes. Sorg O, et al. **Mol Med** 1997 Jul;3(7):431–40

Expression of the gltP gene of Escherichia coli in a glutamate transport-deficient mutant of Rhodobacter sphaeroides restores chemotaxis to glutamate. Jacobs MH, et al. **Mol Microbiol** 1995 Nov;18(4):641–7

A glutamate/glutamine/aspartate/asparagine transport operon in Rhodobacter capsulatus. Zheng S, et al. **Mol Microbiol** 1996 Jun;20(5):1001–11

Unchanged basal ganglia N-acetylaspartate and glutamate in idiopathic Parkinson's disease measured by proton magnetic resonance spectroscopy. Clarke CE, et al. **Mov Disord** 1997 May;12(3):297–301

Flux coupling in a neuronal glutamate transporter. Zerangue N, et al. **Nature** 1996 Oct 17;383(6601):634–7

Ionic and haemodynamic changes influence the release of the excitatory amino acid glutamate in the posterior hypothalamus. Singewald N, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 352(6):620–25

Effect of carbamazepine, oxcarbazepine and lamotrigine on the increase in extracellular glutamate elicited by veratridine in rat cortex and striatum. Waldmeier PC, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):164–72

Interleukin-1 beta inhibits glutamate release in hippocampus of young, but not aged, rats. Murray CA, et al. **Neurobiol Aging** 1997 May–Jun;18(3):343–8

Bicarbonate-sensitive cysteine induced elevation of extracellular aspartate and glutamate in rat hippocampus in vitro. Abbas AK, et al. **Neurochem Int** 1997 Mar; 30(3):253–9

Quantitative determination of glutamate turnover by 1H-observed, 13C-edited nuclear magnetic resonance spectroscopy in the cerebral cortex ex vivo: interrelationships with oxygen consumption. Lukkarinen J, et al. **Neurochem Int** 1997 Jul;31(1):95–104

Characterization of glutamate and [3H]D-aspartate outflow from various in vitro preparations of the rat hippocampus. Muzzolini A, et al. **Neurochem Int** 1997 Jul;31(1):113–24

Effects of ammonia on L-glutamate uptake in cultured astrocytes. Bender AS, et al. **Neurochem Res** 1996 May; 21(5):567–73

On the significance of perfusion rate in the study of glutamate release from superfused synaptosomes. Collard KJ. **Neurochem Res** 1996 Mar;21(3):319–22

Effect of K+- and kainate-mediated depolarization on survival and functional maturation of GABAergic and glutamatergic neurons in cultures of dissociated mouse cerebellum. Damgaard I, et al. **Neurochem Res** 1996 Feb; 21(2):267–75

A microdialysis study in rat brain of dihydrokainate, a glutamate uptake inhibitor. Fallgren AB, et al. **Neurochem Res** 1996 Jan;21(1):19–25

Specific [3H]glutamate binding in the cerebral cortex and hippocampus of rats during development: effect of homocysteine-induced seizures. Folbergrová J, et al. **Neurochem Res** 1997 May;22(5):637–46

High levels of extracellular glutamate are present in retina during neonatal development. Haberecht MF, et al. **Neurochem Res** 1996 Feb;21(2):285–91

Differences in the release of L-glutamate and D-aspartate from primary neuronal chick cultures. Lewin L, et al. **Neurochem Res** 1996 Jan;21(1):79–85

Effect of guanine nucleotides on [3H]glutamate binding and on adenylate cyclase activity in rat brain membranes. Rubin MA, et al. **Neurochem Res** 1997 Feb;22(2):181–7

M1 acetylcholine receptor stimulation increases the extracellular concentrations of glutamate and GABA in the medial prefrontal cortex of the rat. Sanz B, et al. **Neurochem Res** 1997 Mar;22(3):281–6

Free radical scavenging activity of the Japanese herbal medicine toki-shakuyaku-san (TJ-23) and its effect on superoxide dismutase activity, lipid peroxides, glutamate, and monoamine metabolites in aged rat brain. Ueda Y, et al. **Neurochem Res** 1996 Aug;21(8):909–14

Effect of alpha-ketoisocaproate and leucine on the in vivo oxidation of glutamate and glutamine in the rat brain. Zielke HR, et al. **Neurochem Res** 1997 Sep;22(9):1159–64

Expression of estrogen and progesterone receptors in glutamate and GABA neurons of the pubertal female monkey hypothalamus. Thind KK, et al. **Neuroendocrinology** 1997 May;65(5):314–24

LTP of AMPA and NMDA receptor-mediated signals: evidence for presynaptic expression and extrasynaptic glutamate spill-over. Kullmann DM, et al. **Neuron** 1996 Sep;17(3):461–74

Molecular determinants of agonist discrimination by NMDA receptor subunits: analysis of the glutamate binding site on the NR2B subunit. Laube B, et al. **Neuron** 1997 Mar; 18(3):493–503

Alpha 2-adrenergic agonists reduce glutamate release and glutamate receptor-mediated calcium changes in hippocampal slices during hypoxia. Bickler PE, et al. **Neuropharmacology** 1996 Jun;35(6):679–87

(+/-)-kavain inhibits the veratridine- and KCl-induced increase in intracellular Ca2+ and glutamate-release of rat cerebrocortical synaptosomes. Gleitz J, et al. **Neuropharmacology** 1996 Feb;35(2):179–86

Activation of the adenylate cyclase-dependent protein kinase pathway increases high affinity glutamate uptake into rat striatal synaptosomes. Pisano P, et al. **Neuropharmacology** 1996 May;35(5):541–7

CHEB, a convulsant barbiturate, evokes calcium-dependent spontaneous glutamate release from rat cerebrocortical synaptosomes. Wei L, et al. **Neuropharmacology** 1996 Jun; 35(6):695–701

Real time monitoring of biphasic glutamate release using dialysis electrode in rat acute brain ischemia. Asai S, et al. **Neuroreport** 1996 Apr 10;7(5):1092–6

[U-13C]glutamate metabolism in rat brain mitochondria reveals malic enzyme activity. Bakken IJ, et al. **Neuroreport** 1997 May 6;8(7):1567–70

Glutamate uptake is inhibited by L-arginine in mitochondria isolated from rat cerebrum. Dolińska M, et al. **Neuroreport** 1997 Jul 7;8(9–10):2365–8

Seizure-induced glutamate release in mature and immature animals: an in vivo microdialysis study. Liu Z, et al. **Neuroreport** 1997 May 27;8(8):2019–23

Domoic acid induces the release of glutamate in the rat hippocampal CA3 subregion. Malva JO, et al. **Neuroreport** 1996 May 17;7(7):1330–4

GABA transamination regulates neuronal glutamate content in the retina. Pow DV, et al. **Neuroreport** 1996 Nov 4; 7(15–17):2683–6

Evidence for sensitization of cocaine-induced nucleus accumbens glutamate release. Reid MS, et al. **Neuroreport** 1996 May 17;7(7):1325–9

Time course and role of extracellular Ca2+ in veratridine-induced glutamate release. Stier C, et al. **Neuroreport** 1996 Jan 31;7(2):401–4

Lasting effect of NO on glutamate release in rat striatum revealed by continuous brain dialysis. Takita M, et al. **Neuroreport** 1997 Jan 20;8(2):567–70

Glutamate responsiveness enhanced in neurones expressing amyloid precursor protein. Tominaga K, et al. **Neuroreport** 1997 May 27;8(8):2067–72

Real-time detection of GABA-induced synaptic glutamate release in cultured rat cortex. Torimitsu K, et al. **Neuroreport** 1997 Apr 14;8(6):1353–8

EAAT4 is a post-synaptic glutamate transporter at Purkinje cell synapses. Yamada K, et al. **Neuroreport** 1996 Aug 12; 7(12):2013–7

Cytokine modulation of glial glutamate uptake: a possible involvement of nitric oxide. Ye ZC, et al. **Neuroreport** 1996 Sep 2;7(13):2181–5

Real-time monitoring of the effects of normothermia and hypothermia on extracellular glutamate re-uptake in the rat following global brain ischemia. Zhao H, et al. **Neuroreport** 1997 Jul 7;8(9–10):2389–93

Investigation of the influence of a vasopressin analog on the efficiency of glutamatergic transmission in the hippocampus. Kudryashov IE, et al. **Neurosci Behav Physiol** 1996 Sep–Dec;26(5):441–4

Dopamine and glutamate control each other's release in the basal ganglia: a microdialysis study of the entopeduncular nucleus and substantia nigra. Biggs CS, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):497–504

On the release of glutamate and aspartate in the basal ganglia of the rat: interactions with monoamines and neuropeptides. Herrera-Marschitz M, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):489–95 (73 ref.)

Cell culture studies of the role of elevated extracellular glutamate and K+ in neuronal cell death during and after anoxia/ischemia. Huang R, et al. **Neurosci Biobehav Rev** 1997 Mar;21(2):129–34 (26 ref.)

Deficits of [3H]D-aspartate binding to glutamate uptake sites in striatal and accumbens tissue in patients with schizophrenia. Aparicio-Legarza MI, et al. **Neurosci Lett** 1997 Aug 22;232(1):13–6

State-dependent changes of extracellular glutamate in the medial preoptic area in freely behaving rats. Azuma S, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):179–82

Glutamate is transported across the rat blood–brain barrier by a sodium-independent system. Benrabh H, et al. **Neurosci Lett** 1996 May 24;210(1):9–12

Possible involvement of nitric oxide in NMDA-induced glutamate release in the rat striatum: an in vivo microdialysis study. Bogdanov MB, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):197–201

Effects of N-methyl-D-aspartate-receptor blockade on high-potassium-induced neuronal death and glutamate release. Fujikawa DG. **Neurosci Lett** 1997 Apr 18; 226(1):25–8

Efflux of glutamate into the perilymph of the cochlea following transient ischemia in the gerbil. Hakuba N, et al. **Neurosci Lett** 1997 Jul 11;230(1):69–71

Glucose-induced decrease in glutamate levels in ischemic human brain by in-vivo microdialysis. Kanthan R, et al. **Neurosci Lett** 1996 May 17;209(3):207–9

Nitric oxide modulates synaptic glutamate release during anoxia. Katchman AN, et al. **Neurosci Lett** 1997 May 30; 228(1):50–4

The dorsal facial area of the medulla in cats: inhibitory action of serotonin on glutamate release in regulating common carotid blood flow. Li HT, et al. **Neurosci Lett** 1996 Jun 7;210(3):193–6

Immunohistochemical localization of a metabotropic glutamate receptor, mGluR7, in ganglion neurons of the rat; with special reference to the presence in glutamatergic ganglion neurons. Li JL, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):9–12

Direct evidence for increase in excitatory amino acids release during mossy fiber LTP in rat hippocampal slices as revealed by the patch sensor methods. Maeda T, et al. **Neurosci Lett** 1997 Mar 14;224(2):103–6

mu- and kappa-opioids inhibit K+ evoked glutamate release from rat cerebrocortical slices. Nicol B, et al. **Neurosci Lett** 1996 Nov 1;218(2):79–82

Increased Na(+)-dependent high affinity uptake of glutamate in astrocytes chronically exposed to ethanol. Smith TL, et al. **Neurosci Lett** 1996 Nov 1;218(2):142–4

Release of the excitotoxic amino acids, glutamate and aspartate, from the isolated ischemic/anoxic rat heart. Song D, et al. **Neurosci Lett** 1996 Dec 6;220(1):1–4

Absence of excitotoxic neuropathology in microencephalic rats after systemic kainic acid administration. Virgili M, et al. **Neurosci Lett** 1996 Oct 25;218(1):57–61

Inhibition of glutamate reuptake potentiates endogenous nitric oxide-facilitated dopamine efflux in the rat striatum: an in vivo microdialysis study. West AR, et al. **Neurosci Lett** 1997 Jul 11;230(1):21–4

Light microscopic comparison of the patterns of glutamate-like and homocysteate-like immunoreactivities in rat dorsal lateral geniculate after combined visual cortical and retinal ablations. Grandes P, et al. **Neurosci Res** 1997 Apr;27(4):377–80

Correlation of in vivo nitric oxide and cGMP with glutamate/glutamine metabolism in the rat striatum. Ohta K, et al. **Neurosci Res** 1996 Aug;25(4):379–84

Facilitation of glutamate release in the ventromedial division of the globus pallidus during palatable taste stimulation in freely moving rats: real-time measurement. Shimura T, et al. **Neurosci Res** 1997 Jul;28(3):281–4

Depolarization with high-K+ causes Ca(2+)-independent but partially Cl(-)-dependent glutamate release in rat hippocampal slice cultures. Takahashi M, et al. **Neurosci Res** 1996 Aug;25(4):399–402

Visualization of glutamate release from rat spinal cord with a confocal laser scanning microscope. Tohda C, et al. **Neurosci Res** 1996 Jan;24(2):183–7

Temporal dynamics of glutamate efflux in the prefrontal cortex and in the hippocampus following repeated stress: effects of pretreatment with saline or diazepam. Bagley J, et al. **Neuroscience** 1997 Mar;77(1):65–73

Tonic facilitation of glutamate release by presynaptic N-methyl-D-aspartate autoreceptors in the entorhinal cortex. Berretta N, et al. **Neuroscience** 1996 Nov; 75(2):339–44

Activation of voltage-dependent sodium channels in cultured cerebellar poffule cells induces neurotoxicity that is not mediated by glutamate release. Dargent B, et al. **Neuroscience** 1996 Jul;73(1):209–16

In vivo elevation of extracellular potassium in the rat amygdala increases extracellular glutamate and aspartate and damages neurons. Fujikawa DG, et al. **Neuroscience** 1996 Oct;74(3):695–706

The synergism between metabotropic glutamate receptor activation and arachidonic acid on glutamate release is occluded by induction of long-term potentiation in the dentate gyrus. McGahon B, et al. **Neuroscience** 1996 Jun; 72(3):847–55

Neuronal and glial handling of glutamate and glutamine during hypoosmotic stress: a biochemical and quantitative immunocytochemical analysis using the rat cerebellum as a model. Nagelhus EA, et al. **Neuroscience** 1996 Jun; 72(3):743–55

Release of glutamate in the nucleus tractus solitarii in response to baroreflex activation in rats. Ohta H, et al. **Neuroscience** 1996 Sep;74(1):29–37

Feline immunodeficiency virus causes increased glutamate levels and neuronal loss in brain. Power C, et al. **Neuroscience** 1997 Apr;77(4):1175–85

Mechanism of glutamate release from rat hippocampal slices during in vitro ischemia. Roettger V, et al. **Neuroscience** 1996 Dec;75(3):677–85

Dependence of photoreceptor glutamate release on a dihydropyridine-sensitive calcium channel. Schmitz Y, et al. **Neuroscience** 1997 Jun;78(4):1209–16

Neurotransmitter release from growth cones of rat dorsal root ganglion neurons in culture. Soeda H, et al. **Neuroscience** 1997 Apr;77(4):1187–99

Glutamate immunoreactivity of insular cortex afferents to the nucleus tractus solitarius in the rat: a quantitative electron microscopic study. Torrealba F, et al. **Neuroscience** 1996 Mar;71(1):77–87

Attenuation of trimethyltin-evoked glutamate (GLU) efflux from rat cortical and hippocampal slices. Patterson TA, et al. **Neurotoxicol Teratol** 1996 Nov–Dec;18(6):697–702

L-2-chloropropionic acid inhibits glutamate and aspartate

release from rat cerebellar slices but does not activate cerebellar NMDA receptors: implications for L-2-chloropropionic acid-induced neurotoxicity. Widdowson PS, et al. **Neurotoxicology** 1997;18(1):169-77

Immunocytochemical localization of glutamate-like immunoreactivity within the nervous system of the cestode Mesocestoides corti and the trematode Fasciola hepatica. Brownlee DJ, et al. **Parasitol Res** 1996;82(5):423-7

A pivotal role for glutamate in the pathogenesis of schizophrenia, and its cognitive dysfunction. Hirsch SR, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):797-802 (51 ref.)

Effects of acute and chronic morphine on DOPAC and glutamate at subcortical DA terminals in awake rats. Huang NK, et al. **Pharmacol Biochem Behav** 1997 Mar; 56(3):363-71

Glutamine metabolism is changed in lymphocytes from aged rats. Almeida AF, et al. **Physiol Behav** 1996 Sep;60(3):973-8

The antibipolar drug valproate mimics lithium in stimulating glutamate release and inositol 1,4,5-trisphosphate accumulation in brain cortex slices but not accumulation of inositol monophosphates and bisphosphates. Dixon JF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4757-60

Glutamate transport in Rhodobacter sphaeroides is mediated by a novel binding protein-dependent secondary transport system. Jacobs MH, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12786-90

SNAP-25 and synaptotagmin involvement in the final Ca(2+)-dependent triggering of neurotransmitter exocytosis. Mehta PP, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10471-6

A protein factor that inhibits ATP-dependent glutamate and gamma-aminobutyric acid accumulation into synaptic vesicles: purification and initial characterization. Ozkan ED, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):4137-42

In vivo 13C NMR measurements of cerebral glutamine synthesis as evidence for glutamate-glutamine cycling. Sibson NR, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2699-704

Glutamic acid 286 in subunit I of cytochrome bo3 is involved in proton translocation. Verkhovskaya ML, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10128-31

Increased striatal glutamate transporter by repeated intermittent administration of methamphetamine. Shirai Y, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):161-4

An in vivo proton magnetic resonance spectroscopy study of schizophrenia patients. Stanley JA, et al. **Schizophr Bull** 1996;22(4):597-609

A membrane network for nutrient import in red cells infected with the malaria parasite [see comments] Lauer SA, et al. **Science** 1997 May 16;276(5315):1122-5. Comment in: Science 1997 May 16;276(5315):1031.

Postsynaptic glutamate transport at the climbing fiber-Purkinje cell synapse. Otis TS, et al. **Science** 1997 Sep 5;277(5331):1515-8

Epilepsy and exacerbation of brain injury in mice lacking the glutamate transporter GLT-1. Tanaka K, et al. **Science** 1997 Jun 13;276(5319):1699-702

Neuroscientists seek answers to brain function and disease. Faulty protein linked to ALS [news] Vogel G. **Science** 1996 Dec 6;274(5293):1612-3

Inhibitory effect of MS-153 on elevated brain glutamate level induced by rat middle cerebral artery occlusion. Umemura K, et al. **Stroke** 1996 Sep;27(9):1624-8

Dopamine selects glutamatergic inputs to neostriatal neurons. Flores-Hernández J, et al. **Synapse** 1997 Feb;25(2):185-95

Cocaine and amphetamine preferentially stimulate glutamate release in the limbic system: studies on the involvement of dopamine. Reid MS, et al. **Synapse** 1997 Oct;27(2):95-105

Presynaptic receptors and the control of glutamate exocytosis. Sánchez-Prieto J, et al. **Trends Neurosci** 1996 Jun;19(6):235-9

Glutamate containing neurons in the cat superior colliculus revealed by immunocytochemistry. Jeon CJ, et al. **Vis Neurosci** 1997 Mar-Apr;14(2):387-93

Glutamate-like immunoreactivity in the cat superior colliculus and visual cortex: further evidence that glutamate is the neurotransmitter of the corticocollicular pathway. Jeon CJ, et al. **Vis Neurosci** 1997 Jan-Feb;14(1):27-37

Possible role of the Müller cell in uptake and metabolism of glutamate in the mammalian outer retina. Derouiche A. **Vision Res** 1996 Dec;36(24):3875-8

Clearance of neurotransmitter from the cone synaptic cleft in goldfish retina. Vandenbranden CA, et al. **Vision Res** 1996 Dec;36(24):3859-74

PHARMACOKINETICS

Transport and metabolism of L-glutamate during oxygenation, anoxia, and reoxygenation of rat cardiac myocytes. Dinkelborg LM, et al. **Am J Physiol** 1996 May; 270(5 Pt 2):H1825-32

Increase of glutamate uptake in astrocytes: a possible mechanism of action of volatile anesthetics. Miyazaki H, et al. **Anesthesiology** 1997 Jun;86(6):1359-66; discussion 8A

Intracellular acidification of the leech giant glial cell evoked by glutamate and aspartate. Deitmer JW, et al. **Glia** 1997 Feb;19(2):111-22

Stimulation of glutamate uptake and Na,K-ATPase activity in rat astrocytes exposed to ischemia-like insults. Stanimirovic DB, et al. **Glia** 1997 Feb;19(2):123-34

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) decreases glutamate uptake in cultured astrocytes. Hazell AS, et al. **J Neurochem** 1997 May;68(5):2216-9

Lysophosphatidic acid decreases glutamate and glucose uptake by astrocytes. Keller JN, et al. **J Neurochem** 1996 Dec;67(6):2300-5

Postsynaptic glutamate uptake in rat cerebellar Purkinje cells. Takahashi M, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):523-30

The glutathione level of retinal Müller glial cells is dependent on the high-affinity sodium-dependent uptake of glutamate. Reichelt W, et al. **Neuroscience** 1997 Apr; 77(4):1213-24

Size-related properties of vestibular afferent fibers in the frog: uptake of and immunoreactivity for glycine and aspartate/glutamate. Straka H, et al. **Neuroscience** 1996 Feb;70(3):685-96

Arachidonic acid inhibits 3H-glutamate uptake with different potencies in rodent central nervous system regions expressing different transporter subtypes. Manzoni C, et al. **Pharmacol Res** 1997 Feb;35(2):149-51

PHARMACOLOGY

The role of glutamate reuptake in regulation of glutamate responses in Aplysia neurons. Carpenter DO, et al. **Acta Biol Hung** 1995;46(2-4):363-73

Application of glutamate in the cortex of rats: a microdialysis study. Alessandri B, et al. **Acta Neurochir Suppl (Wien)** 1996;67:6-12

Intracortical perfusion of glutamate in vivo induces alterations of tau and microtubule-associated protein 2 immunoreactivity in the rat. Irving EA, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):186-96

Effects of glutamate on calcium influx and sequestration/extrusion mechanisms in hippocampal neurons. DeLorenzo RJ, et al. **Adv Neurol** 1996;71:37-46 (35 ref.)

Gigantocellular vasodepressor area is tonically active and distinct from caudal ventrolateral vasodepressor area. Aicher SA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R731-42

Stimulation of dog RVLM and A5 area changes sympathetic outflow to vascular beds without effect on the heart. Dickerson LW, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R821-39

Glutamate microinjections in cerebellar cortex reproduce cerebrovascular effects of parallel fiber stimulation. Yang G, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1568-75

Metabotropic glutamate response in acutely dissociated hippocampal CA3 neurons of the rat. Harata N, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:511-4

Glutamate-induced hyperpolarization in mouse cerebellar Purkinje cells. Inoue T, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:467-71

Glutamate receptors in the central nervous system. Jonas P. **Ann N Y Acad Sci** 1993 Dec 20;707:126-35 (29 ref.)

Inhibitory avoidance impairments induced by intra-amygdala propranolol are reversed by glutamate but not glucose. Lennartz RC, et al. **Behav Neurosci** 1996 Oct;110(5):1033-9

Involvement of aspartate/glutamate antiporter in fatty acid-induced uncoupling of liver mitochondria. Samartsev VN, et al. **Biochim Biophys Acta** 1997 Apr 11; 1319(2-3):251-7

Desensitization and resensitization kinetics of glutamate receptor channels from Drosophila larval muscle. Heckmann M, et al. **Biophys J** 1997 May;72(5):2160-9

Kinetics of homomeric GluR6 glutamate receptor channels. Heckmann M, et al. **Biophys J** 1996 Oct;71(4):1743-50

Presynaptic modulation by L-glutamate and GABA of sympathetic co-transmission in rat isolated vas deferens. Kwan YW, et al. **Br J Pharmacol** 1996 Jun;118(3):755-61

Glutamate and vasopressin interact to control scent marking in Syrian hamsters (Mesocricetus auratus). Bamshad M, et al. **Brain Res** 1996 Aug 26;731(1-2):213-6

Substance P analogues potentiate the pressor response to microinjection of L-glutamate into laminas I and II of the cat dorsal horn. Beyaert CA, et al. **Brain Res** 1997 Jun 6;759(1):175-9

NMDA receptor antagonist blocks the bradycardic but not the pressor response to L-glutamate microinjected into the nucleus tractus solitarius (NTS) of unanesthetized rats. Colombari E, et al. **Brain Res** 1997 Feb 28;749(2):209-13

Regulation of cerebral microvessels by glutamatergic mechanisms. Fergus A, et al. **Brain Res** 1997 Apr 18; 754(1-2):35-45

Thyrotropin-releasing hormone (TRH) attenuates glutamate-stimulated increases in calcium in primary neuronal cultures. Koenig ML, et al. **Brain Res** 1996 Aug 19;730(1-2):143-9

Glutamate and potassium stimulation of hippocampal slices metabolizing glucose or glucose and pyruvate. McDougal DB Jr, et al. **Brain Res** 1997 May 2;755(2):304-12

Preferential occupation of mineralocorticoid receptors by corticosterone enhances glutamate-induced burst firing in rat midbrain dopaminergic neurons. Overton PG, et al. **Brain Res** 1996 Oct 21;737(1-2):146-54

Flow-cytometric estimation on glutamate- and kainate-induced increases in intracellular Ca2+ of brain neurons: a technical aspect. Oyama Y, et al. **Brain Res** 1996 Jul 22;728(1):121-4

Effects of excitatory amino acids and neuropeptide Y on the discharge activity of suprachiasmatic neurons in rat brain slices. Schmahl C, et al. **Brain Res** 1997 Jan 23; 746(1-2):151-63

Pressor and sympathetic responses to excitatory amino acids are not augmented in the ventrolateral medulla of Dahl salt-sensitive rats. Tsuchihashi T, et al. **Brain Res** 1997 Mar 7;750(1-2):195-200

Synergistic interactions between noradrenaline and glutamate in cytosolic calcium influx in cultured visual cortical neurons. Yang B, et al. **Brain Res** 1996 May 20; 721(1-2):181-90

The activation of calcium/calmodulin-dependent protein kinase II after glutamate or potassium stimulation in hippocampal slices. Tan SE, et al. **Brain Res Bull** 1997; 43(3):269-73

No effect of glutamate on metabolic disturbances in hippocampal slices of mature fetal guinea pigs after transient in vitro ischemia. Berger R, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1-2):49-56

Vulnerability of CA1 neurons to glutamate is developmentally regulated. Marks JD, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):194-206

Antirheumatic agents. III. Novel methotrexate derivatives bearing an indoline ring and a modified ornithine or glutamic acid. Matsuoka H, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1146-50

Neuronal nitric oxide reduces sympathetic excitability by modulation of central glutamate effects in pigs. Zanzinger J, et al. **Circ Res** 1997 Apr;80(4):565-71

Tachycardia after glutamate injection in rat spinal cord is not blocked by kynurenate or mimicked by metabotropic agonists. Arnolda LF, et al. **Clin Exp Pharmacol Physiol** 1996 Sep;23(9):813-8

Evolution of dose-related cardiovascular responses to L-glutamate microinjected into the nucleus tractus solitarii after removal of the nodose ganglion in rat. Talman WT, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S37-9

Calcium permeability of glutamate-gated channels in the central nervous system. Burnashev N. **Curr Opin Neurobiol** 1996 Jun;6(3):311-7 (57 ref.)

Glutamatergic modulation of cortical acetylcholine release in the rat: a combined in vivo microdialysis, retrograde tracing and immunohistochemical study. Giovannini MG, et al. **Eur J Neurosci** 1997 Aug;9(8):1678-89

GABA- and glutamate-evoked responses in the rat ventral pallidum are modulated by dopamine. Johnson PI, et al. **Eur J Neurosci** 1997 Jul;9(7):1397-406

Effects of glutamate application on the rhythm of low magnesium-induced epileptiform activity in hippocampal slices of guinea-pigs. Lücke A, et al. **Eur J Neurosci** 1996 Oct;8(10):2137-48

Characterization of a barium-sensitive outward current following glutamate application on rat midbrain dopaminergic cells. Mercuri NB, et al. **Eur J Neurosci** 1996 Aug;8(8):1780-6

Injury-induced synthesis and release of apolipoprotein E and clusterin from rat neural cells. Messmer-Joudrier S, et al. **Eur J Neurosci** 1996 Dec;8(12):2652-61

Glutamate depresses release by activating non-conventional glutamate receptors at crayfish nerve terminals. Parnas I, et al. **Eur J Neurosci** 1996 Jan;8(1):116-26

Origin of aspartate-induced responses in rat cerebellar Purkinje cells. Renard A, et al. **Eur J Neurosci** 1996 May; 8(5):978-87

Na(+)-Ca2+ exchange currents in cortical neurons: concomitant forward and reverse operation and effect of glutamate. Yu SP, et al. **Eur J Neurosci** 1997 Jun; 9(6):1273-81

Ca2+ influx through glutamate receptor-associated channels in retina cells correlates with neuronal cell death. Ferreira IL, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):153-62

Role of glutathione metabolism in the glutamate-induced programmed cell death of neuronal-like PC12 cells. Froissard P, et al. **Eur J Pharmacol** 1997 May 12; 326(1):93-9

Involvement of glutamate and gamma-aminobutyric acid (GABA)-ergic systems in thyrotropin-releasing hormone-induced rat cerebellar cGMP formation. Nakayama T, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2-3):157-64

Effects of pyrroloquinoline quinone on glutamate-induced production of reactive oxygen species in neurons. Scanlon JM, et al. **Eur J Pharmacol** 1997 May 12;326(1):67-74

Hypoxic and excitotoxic damage to cultured rat retinal ganglion cells. Kitano S, et al. **Exp Eye Res** 1996 Jul; 63(1):105-12

Effect of aging on lipid peroxide levels induced by L-glutamic acid and estimated by means of a thiobarbituric acid test in rat brain tissue. Krištofiková Z, et al. **Exp Gerontol** 1995 Nov-Dec;30(6):645-57

Intracortical glutamate perfusion in vivo induces cellular alterations in specific protein kinase C isoforms and amyloid precursor protein. Horsburgh K, et al. **Exp Neurol** 1997 Feb;143(2):207-18

Mechanisms of dopamine-induced cell death in cultured rat forebrain neurons: interactions with and differences from glutamate-induced cell death. Hoyt KR, et al. **Exp Neurol** 1997 Feb;143(2):269-81

Schistosoma mansoni: L-glutamate-induced contractions in isolated muscle fibers; evidence for a glutamate transporter. Miller CL, et al. **Exp Parasitol** 1996 Dec;84(3):410-9

Calcineurin and mitochondrial function in glutamate-induced neuronal cell death. Ankarcrona M, et al. **FEBS Lett** 1996 Oct 7;394(3):321-4

Mitochondrial deenergization underlies neuronal calcium overload following a prolonged glutamate challenge. Khodorov B, et al. **FEBS Lett** 1996 Nov 18;397(2-3):230-4

Regulation of growth hormone secretion by amino acid neurotransmitters in the goldfish (I): Inhibition by N-methyl-D, L-aspartic acid. Trudeau VL, et al. **Gen Comp Endocrinol** 1996 Aug;103(2):129-37

Effects of L-glutamic acid and its agonists on snail neurones. Zhang W, et al. **Gen Pharmacol** 1996 Apr;27(3):487-97

Leu271-Glu292 in kininogens blocks thrombin-induced aggregation. Colman RW, et al. **Immunopharmacology** 1996 May;32(1-3):80-1 (3 ref.)

Effect of aspartate and glutamate on nociception, catalepsy and core temperature in rats. Singh J, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):123-8

Glutamate pharmacology and the treatment of schizophrenia: current status and future directions. Tamminga CA, et al. **Int Clin Psychopharmacol** 1995 Sep;10 Suppl 3:29-37

Bepridil exacerbates glutamate-induced deterioration of calcium homeostasis and cultured nerve cell injury. Storozhevykh TP, et al. **Int J Neurosci** 1996 Dec; 88(3-4):199-214

Hyperthermia and hypoxia increase tolerance of retinal ganglion cells to anoxia and excitotoxicity. Caprioli J, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2376-81

Can neurons in the nucleus ambiguus selectively regulate cardiac rate and atrio-ventricular conduction? Gatti PJ, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1-2):123-7

Differential regulation of proline-rich tyrosine kinase 2/cell adhesion kinase beta (PYK2/CAKbeta) and pp125(FAK) by glutamate and depolarization in rat hippocampus. Siciliano JC, et al. **J Biol Chem** 1996 Nov 15; 271(46):28942-6

Craniofacial and TMJ effects after glutamate and TRH microsphere implantation in proximity to trigeminal motoneurons of growing rats. Byrd KE, et al. **J Dent Res** 1997 Aug;76(8):1437-52

Function of type II phospholipase A2 in dopamine secretion by rat neuronal PC12 cells. Kudo I, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1-3):25-31

Beta-amyloid precursor protein (APP) and APP-RNA are rapidly affected by glutamate in cultured neurons: selective increase of mRNAs encoding a Kunitz protease inhibitor domain. Willoughby DA, et al. **J Mol Neurosci** 1995; 6(4):257-76

Dopaminergic modulation of glutamate-activated channels in the central nervous system. Hatt H, et al. **J Neural Transm Suppl** 1995;46:77-86

A novel glutamate-mediated inhibitory mechanism linked with Ca2+/calmodulin-dependent protein kinase II in identified Euhadra neurons. Watanabe K, et al. **J Neurobiol** 1997 Feb;32(2):139-49

Glutamate neurotoxicity in rat cerebellar granule cells: a major role for xanthine oxidase in oxygen radical formation. Atlante A, et al. **J Neurochem** 1997 May;68(5):2038-45

Evidence that the early loss of membrane protein kinase C is a necessary step in the excitatory amino acid-induced death of primary cortical neurons. Durkin JP, et al. **J Neurochem** 1997 Apr;68(4):1400-12

Regulation of GABA level in rat brain synaptosomes: fluxes through enzymes of the GABA shunt and effects of glutamate, calcium, and ketone bodies. Erecińska M, et al. **J Neurochem** 1996 Dec;67(6):2325-34

Characterization of glutamate-induced formation of N-acylphosphatidylethanolamine and N-acylethanolamine in cultured neocortical neurons. Hansen HS, et al. **J Neurochem** 1997 Aug;69(2):753-61

NMDA receptor-mediated neurotoxicity: a paradoxical requirement for extracellular Mg2+ in Na+/Ca2+-free solutions in rat cortical neurons in vitro. Hartnett KA, et al. **J Neurochem** 1997 May;68(5):1836-45

Regulation of astrocyte nitric oxide synthase type II expression by ATP and glutamate involves loss of transcription factor binding to DNA. Lin HL, et al. **J Neurochem** 1997 Aug;69(2):612-6

Pigment epithelium-derived factor protects cultured cerebellar granule cells against glutamate-induced neurotoxicity. Taniwaki T, et al. **J Neurochem** 1997 Jan; 68(1):26-32

Glutamate and N-methyl-D-aspartate stimulate rat hypothalamic corticotropin-releasing factor secretion in vitro. Joanny P, et al. **J Neuroendocrinol** 1997 Feb;9(2):93-7

Glutamate and N-acetylaspartylglutamate block HVA calcium currents in frog olfactory bulb interneurons via an mGluR2/3-like receptor. Bischofberger J, et al. **J Neurophysiol** 1996 Sep;76(3):2089-92

Glutamate-induced long-term potentiation enhances spontaneous EPSC amplitude but not frequency. Cormier RJ, et al. **J Neurophysiol** 1996 May;75(5):1909-18

Glutamate-mediated release of Ca2+ in mitral cells of the olfactory bulb. Geiling H, et al. **J Neurophysiol** 1996 Jul; 76(1):563-70

On bipolar cell responses in the teleost retina are generated by two distinct mechanisms. Grant GB, et al. **J Neurophysiol** 1996 Dec;76(6):3842-9

Glutamate modulates intracellular Ca2+ stores in brain stem auditory neurons. Kato BM, et al. **J Neurophysiol** 1996 Jul;76(1):646-50

Pharmacology of directionally selective ganglion cells in the rabbit retina. Kittila CA, et al. **J Neurophysiol** 1997 Feb; 77(2):675-89

Glutamate-gated chloride channel with glutamate-transporter-like properties in cone photoreceptors of the tiger salamander. Picaud SA, et al. **J Neurophysiol** 1995 Oct;74(4):1760-71

Effects of local oscillator frequency on intersegmental coordination in the lamprey locomotor CPG: theory and experiment. Sigvardt KA, et al. **J Neurophysiol** 1996 Dec; 76(6):4094-103

Mechanisms underlying the rapid depolarization produced by deprivation of oxygen and glucose in rat hippocampal CA1 neurons in vitro. Tanaka E, et al. **J Neurophysiol** 1997 Aug;78(2):891-902

Inhibition of the electrogenic Na pump underlies delayed depolarization of cortical neurons after mechanical injury or glutamate. Tavalin SJ, et al. **J Neurophysiol** 1997 Feb; 77(2):632-8

Sequestration of glutamate-induced Ca2+ loads by mitochondria in cultured rat hippocampal neurons. Wang GJ, et al. **J Neurophysiol** 1996 Sep;76(3):1611-21

Intracellular calcium transients and potassium current oscillations evoked by glutamate in cultured rat astrocytes. Chen J, et al. **J Neurosci** 1997 Oct 1;17(19):7278-87

Glutamate-dependent activation of NF-kappaB during mouse cerebellum development. Guerrini L, et al. **J Neurosci** 1997 Aug 15;17(16):6057-63

Metabotropic glutamate receptor activation modulates kainate and serotonin calcium response in astrocytes. Haak LL, et al. **J Neurosci** 1997 Mar 1;17(5):1825-37

Glutamatergic enteric neurons. Liu MT, et al. **J Neurosci** 1997 Jun 15;17(12):4764-84

Glutamate-dependent phosphorylation of elongation factor-2 and inhibition of protein synthesis in neurons. Marin P, et al. **J Neurosci** 1997 May 15;17(10):3445-54

Mechanisms of H+ and Na+ changes induced by glutamate, kainate, and D-aspartate in rat hippocampal astrocytes. Rose CR, et al. **J Neurosci** 1996 Sep 1;16(17):5393-404

Glutamate, but not dopamine, stimulates stress-activated protein kinase and AP-1-mediated transcription in striatal neurons. Schwarzschild MA, et al. **J Neurosci** 1997 May 15;17(10):3455-66

A novel allosteric potentiator of AMPA receptors: 4--2-(phenylsulfonylamino)ethylthio--2,6-difluoro-phenoxyaceta mide. Sekiguchi M, et al. **J Neurosci** 1997 Aug 1;17(15):5760-71

Mitochondrial depolarization in glutamate-stimulated neurons: an early signal specific to excitotoxin exposure. White RJ, et al. **J Neurosci** 1996 Sep 15;16(18):5688-97

Activation and desensitization of hippocampal kainate receptors. Wilding TJ, et al. **J Neurosci** 1997 Apr 15; 17(8):2713-21

Effects of glutamic acid and related agents on horizontal cells in a marine teleost retina. Laufer M, et al. **J Neurosci Res** 1996 Jun 15;44(6):568-76

Methylphenylpyridium ion (MPP+) enhances glutamate-induced cytotoxicity against dopaminergic neurons in cultured rat mesencephalon. Sawada H, et al. **J Neurosci Res** 1996 Jan 1;43(1):55-62

Inhibitory effects of tetrandrine on intracellular free Ca2+ increase induced by glutamate, serotonin and histamine in dissociated retina cells. Xuan B, et al. **J Ocul Pharmacol Ther** 1996 Fall;12(3):331-6

Glutamate ameliorates experimental vincristine neuropathy. Boyle FM, et al. **J Pharmacol Exp Ther** 1996 Oct; 279(1):410-5

Increased responsiveness of ventral tegmental area dopamine neurons to glutamate after repeated administration of cocaine or amphetamine is transient and selectively involves AMPA receptors. Zhang XF, et al. **J Pharmacol Exp Ther** 1997 May;281(2):699-706

GABA and glutamate mediate rapid neurotransmission from suprachiasmatic nucleus to hypothalamic paraventricular nucleus in rat. Hermes ML, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):749-57

Lasting effects of glutamate on nuclear calcium concentration in cultured rat hippocampal neurons: regulation by calcium stores [published erratum appears in J Physiol (Lond) 1996 Dec 15;497(Pt 3):857] Korkotian E, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):39-48

Mitochondria accumulate Ca2+ following intense glutamate stimulation of cultured rat forebrain neurones. White RJ, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):31-47

Modulation of excitatory synaptic transmission by low concentrations of glutamate in cultured rat hippocampal neurons. Zorumski CF, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):465-77

Inhibition of crossed caudal interneurons by lateral interneurons in lamprey spinal chord during fictive locomotion. Davis JT, et al. **J Physiol Paris** 1995; 89(4-6):235-9

Invited editorial on "effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest" [editorial; comment] Buckberg GD. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1661-3. Comment on: J Thorac Cardiovasc Surg 1996 Dec;112(6):1651-60.

Effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest [see comments] Reed MK, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1651-60. Comment in: J Thorac Cardiovasc Surg 1996 Dec;112(6):1661-3.

Metabolic and hemodynamic effects of intravenous glutamate infusion early after coronary operations. Svedjeholm R, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1468-77

Glutamate: a potential mediator of inorganic mercury neurotoxicity. Albrecht J, et al. **Metab Brain Dis** 1996 Jun; 11(2):175-84

Kainate receptors are involved in the glutamate-induced indirect, purinergic inhibition of [3H]-noradrenaline release in rabbit brain cortex. von Kugelgen I, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):46-54

Glutamate regulation of dopamine release in guinea pig striatal slices. Antonelli T, et al. **Neurochem Int** 1997 Feb; 30(2):203-9

Temporal and spatial differences in intracellular Ca++ changes elicited by K+ and glutamate in single cultured neocortical neurons. Belhage B, et al. **Neurochem Int** 1996 Sep;29(3):247-53

Cellular and molecular correlates of glutamate-evoked neuronal programmed cell death in the in vitro cultures of rat hippocampal dentate gyrus. Figiel I, et al. **Neurochem Int** 1997 Aug;31(2):229-40

Cholecystokinin-GABA interactions in rodent cortex: analyses of cholecystokinin effects on K(+)- and L-glutamate-induced release of [3H]GABA from rat cortical slices and cultured mouse cortical neurones. Hickling YM, et al. **Neurochem Int** 1997 Feb;30(2):171-9

Glutamate-stimulated secretion of amyloid precursor protein from cortical rat brain slices. Kirazov L, et al. **Neurochem Int** 1997 Jun;30(6):557-63

Ca2+ and H+ antagonize the decrease of [3H]MK-801 binding induced by glutamate and glycine in the presence of Mg2+. Liu Y, et al. **Neurochem Int** 1996 Apr; 28(4):401-15

Involvement of nitric oxide in spinally mediated capsaicin- and glutamate-induced behavioural responses in the mouse. Sakurada T, et al. **Neurochem Int** 1996 Sep;29(3):271-8

Effect of prenatal treatment with methylazoxymethanol on carbachol-, norepinephrine- and glutamate-stimulated phosphoinositide metabolism in the neonatal, young, and adult offspring. Balduini W, et al. **Neurochem Res** 1995 Oct;20(10):1211-16

In vitro effects of arachidonic and L-glutamic acids on the high-affinity choline transport in rat hippocampus. Krištofiková Z, et al. **Neurochem Res** 1997 Jan;22(1):67-73

Activation of p42 mitogen-activated protein kinase by glutamate in cultured radial glia. López-Colomé AM, et al. **Neurochem Res** 1997 Jun;22(6):679-85

Excitatory amino acid receptors coupled to the phosphoinositide pathway in Bergmann glia. López-Colomé AM, et al. **Neurochem Res** 1997 Mar; 22(3):305-12

Effects of excitatory amino acids on cerebral oxygen consumption and blood flow in rat. Lu X, et al. **Neurochem Res** 1997 Jun;22(6):705-11

Cholecystokinin modulation of spontaneous and excitatory amino acid-induced activity in the opossum cerebellum. Bishop GA. **Neuropeptides** 1996 Dec;30(6):533-40

Molecular cloning, functional expression, pharmacological characterization and chromosomal localization of the human metabotropic glutamate receptor type 3. Emile L, et al. **Neuropharmacology** 1996 May;35(5):523-30

Desensitization of kainate receptors by kainate, glutamate and diastereomers of 4-methylglutamate. Jones KA, et al. **Neuropharmacology** 1997 Jun;36(6):853-63

A modulation of glutamate-induced phosphoinositide breakdown by intracellular pH changes. Vignes M, et al. **Neuropharmacology** 1996;35(11):1595-604

Lamin and beta-tubulin fragmentation precede chromatin degradation in glutamate-induced neuronal apoptosis. Ankarcrona M, et al. **Neuroreport** 1996 Nov 4; 7(15-17):2659-64

Altered responsiveness of medullary depressor neurones to L-glutamate and D-serine in SHR rats. Kapoor V, et al. **Neuroreport** 1996 May 31;7(8):1409-12

GMP reverses the facilitatory effect of glutamate on inhibitory avoidance task in rats. Rubin MA, et al. **Neuroreport** 1996 Sep 2;7(13):2078-80

NG-nitro-L-arginine differentially affects glutamate- or kainate-induced seizures. Tutka P, et al. **Neuroreport** 1996 Jul 8;7(10):1605-8

Differential regulation of neuronal proteoglycans by activation of excitatory amino acid receptors. Wang W, et al. **Neuroreport** 1997 Feb 10;8(3):659-63

Glutamate-mediated activation of protein kinase C in hippocampal neurons. Hasham MI, et al. **Neurosci Lett** 1997 Jun 6;228(2):115-8

Dopamine enhances glutamate-induced excitation of rat striatal neurons by cooperative activation of D1 and D2 class receptors. Hu XT, et al. **Neurosci Lett** 1997 Mar 7; 224(1):61-5

Glutamate affects the development of the thalamofugal visual projection of the chick. Khyentse MD, et al. **Neurosci Lett** 1997 Jul 11;230(1):65-8

Antibodies to glutamate, aspartate and glycyl-D-aspartate reversibly suppress stimulus-evoked, extracellularly recorded responses in slices of rat neocortex. Meadows KN, et al. **Neurosci Lett** 1996 Sep 13;215(3):141-4

Suppression by calmodulin of glutamate-induced potassium current in identified snail neurons. Onozuka M, et al. **Neurosci Lett** 1996 Feb 2;204(1-2):105-8

Glutamate stimulates neurogranin phosphorylation in cultured rat hippocampal neurons. Rodríguez-Sánchez P, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):137-40

Neuropeptide Y and glutamate block each other's phase shifts

in the suprachiasmatic nucleus in vitro. Biello SM, et al. **Neuroscience** 1997 Apr;77(4):1049–57

Morphine modulation of GABA– and glutamate–induced changes of ventral pallidal neuronal activity. Johnson PI, et al. **Neuroscience** 1997 Mar;77(1):187–97

Potentiation of spontaneous acetylcholine release from motor nerve terminals by glutamate in Xenopus tadpoles. Liou HC, et al. **Neuroscience** 1996 Nov;75(1):325–31

Glutamate as a putative neurotransmitter in the mollusc, Lymnaea stagnalis. Nesic OB, et al. **Neuroscience** 1996 Dec; 75(4):1255–69

Glutamate hyperexcitability and seizure–like activity throughout the brain and spinal cord upon relief from chronic glutamate receptor blockade in culture. Van Den Pol AN, et al. **Neuroscience** 1996 Oct;74(3):653–74

Reduced glucose metabolism enhances the glutamate–evoked release of arachidonic acid from striatal neurons. Williams RJ, et al. **Neuroscience** 1996 Sep;74(2):461–8

An electrophysiological preparation of Ascaris suum pharyngeal muscle reveals a glutamate–gated chloride channel sensitive to the avermectin analogue, milbemycin D. Martin RJ. **Parasitology** 1996 Feb;112 (Pt 2):247–52

Activation kinetics of glutamate receptor channels from wild–type Drosophila muscle. Heckmann M, et al. **Pflugers Arch** 1996 Oct;432(6):1023–9

Proline–glutamate interactions in the CNS. Ortiz JG, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Jan; 21(1):141–52

Angiotensin II and glutamate influence area postrema neurons in rat brain slices. Sun K, et al. **Regul Pept** 1996 Jul 5;63(2–3):91–8

Cardiorespiratory effects of L–glutamate microinjected into the rat ventral medulla. Tolentino–Silva FP, et al. **Respir Physiol** 1997 Apr;108(1):23–33

Neuroprotection by aspirin and sodium salicylate through blockade of NF–kappaB activation. Grilli M, et al. **Science** 1996 Nov 22;274(5291):1383–5

Effects of methylprednisolone on the GABA– and glutamate–induced currents: relevance to glucocorticoid–induced neurotoxicity and brain aging. Foroutan A, et al. **Steroids** 1996 Jun;61(6):354–66

Role of P–450 arachidonic acid epoxygenase in the response of cerebral blood flow to glutamate in rats. Alkayed NJ, et al. **Stroke** 1997 May;28(5):1066–72

Glutamate receptor agonists decrease extracellular dopamine in the rat nucleus accumbens in vivo. Taber MT, et al. **Synapse** 1996 Oct;24(2):165–72

Improved recovery after cold crystalloid cardioplegia using low–dose glutamate enrichment during reperfusion after aortic unclamping: a study in isolated blood–perfused pig hearts. Kimose HH, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):118–25

Antidotal efficacy of glutamate and aspartate for colchicine toxicity. Wang RY, et al. **Vet Hum Toxicol** 1997 Aug; 39(4):207–10

A glutamate–elicited chloride current with transporter–like properties in rod photoreceptors of the tiger salamander. Grant GB, et al. **Vis Neurosci** 1996 Jan–Feb;13(1):135–44

Effects of glutamate and its analogs on intracellular calcium levels in the developing retina. Wong RO. **Vis Neurosci** 1995 Sep–Oct;12(5):907–17

Protein kinase C does not mediate the dopamine–dependent modulation of glutamate receptors in retinal horizontal cells of the perch (Perca fluviatilis). Schmidt KF. **Vision Res** 1996 Dec;36(24):3939–42

[Nitric oxide (NO) increase sensitivity and decreases desensitization of the neuron to the stimulating effect of glutamate] D'iakonova TL. **Dokl Akad Nauk** 1997 Feb; 352(4):552–6 **(Rus)**

PHYSIOLOGY

Extended studies on the effect of glutamate antagonists on ischemic CA–1 damage. Diemer NH, et al. **Acta Neurochir Suppl (Wien)** 1996;66:73–5

Glutamate, arachidonic acid, and calcium regulation in cultured hippocampal astrocytes: involvement in ischemia? Madden KS, et al. **Adv Neurol** 1996;71:53–9

Tonic glutamate–mediated control of rostral ventrolateral medulla and sympathetic vasomotor tone. Ito S, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R487–94

Lateral hypothalamic NMDA receptors and glutamate as physiological mediators of eating and weight control. Stanley BG, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R443–9

Riluzole anesthesia: use–dependent block of presynaptic glutamate fibers. MacIver MB, et al. **Anesthesiology** 1996 Sep;85(3):626–34

Volatile anesthetics depress glutamate transmission via presynaptic actions. MacIver MB, et al. **Anesthesiology** 1996 Oct;85(4):823–34

The role of glutamate in the neurotoxic effects of methamphetamine. Ohmori T, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:315–26

Brain activation, then (1949) and now: coherent fast rhythms in corticothalamic networks. Steriade M. **Arch Ital Biol** 1995 Dec;134(1):5–20 (69 ref.)

Glutamate: a role in normal brain function, anaesthesia, analgesia and CNS injury. Hudspith MJ. **Br J Anaesth** 1997 Jun;78(6):731–47 (232 ref.)

Electrically–evoked dopamine and acetylcholine release from rat striatal slices perfused without magnesium: regulation by glutamate acting on NMDA receptors. Jin S, et al. **Br J Pharmacol** 1997 Aug;121(7):1269–76

Lack of involvement of glutamate–induced excitotoxicity in MPP+ toxicity in striatal dopaminergic terminals: possible involvement of ascorbate. Matarredona ER, et al. **Br J Pharmacol** 1997 Jul;121(5):1038–44

Intrastriatal methylmalonic acid administration induces rotational behavior and convulsions through glutamatergic mechanisms. de Mello CF, et al. **Brain Res** 1996 May 20; 721(1–2):120–5

A post mortem study on neurochemical markers of dopaminergic, GABA–ergic and glutamatergic neurons in basal ganglia–thalamocortical circuits in Parkinson syndrome. Gerlach M, et al. **Brain Res** 1996 Nov 25; 741(1–2):142–52

In vitro hypoxia of cortical and hippocampal CA1 neurons: glutamate, nitric oxide, and platelet activating factor participate in the mechanism of selective neural death in CA1 neurons. Ohmori T, et al. **Brain Res** 1996 Dec 16; 743(1–2):109–15

Sensorimotor gating in rats is regulated by different dopamine–glutamate interactions in the nucleus accumbens core and shell subregions. Wan FJ, et al. **Brain Res** 1996 May 25;722(1–2):168–76

Glutamate–dependent mechanisms in the induction of a calcium long–term potentiation–like phenomenon. Sagratella S, et al. **Brain Res Bull** 1996;41(4):193–200

Excitatory amino acid regulation of astrocyte proteoglycans. Chisamore B, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):22–8

Glutamatergic transmission in the nucleus tractus solitarii: from server to peripherals in the cardiovascular information superhighway. Talman WT. **Braz J Med Biol Res** 1997 Jan;30(1):1–7 (66 ref.)

Role of glutamate and aspartate in epileptogenesis; contribution of microdialysis studies in animal and man. Chapman AG, et al. **Epilepsy Res Suppl** 1996;12:239–46

Short– and long–term alterations in glutamate transmission in the entorhinal cortex: relevance to epileptogenesis. Jones RS. **Epilepsy Res Suppl** 1996;12:229–37

Noradrenaline modulates glutamate–mediated neurotransmission in the rat basolateral amygdala in vitro. Ferry B, et al. **Eur J Neurosci** 1997 Jul;9(7):1356–64

Immunocytochemical evidence that glutamate is a neurotransmitter in the cochlear nerve: a quantitative study in the guinea–pig anteroventral cochlear nucleus. Hackney CM, et al. **Eur J Neurosci** 1996 Jan;8(1):79–91

Muscarinic inhibition of glutamatergic transmissions onto rat magnocellular basal forebrain neurons in a thin–slice preparation. Sim JA, et al. **Eur J Neurosci** 1996 May; 8(5):880–91

Evidence for glutamate as a neurotransmitter in spinothalamic tract terminals in the posterior region of owl monkeys. Blomqvist A, et al. **Exp Brain Res** 1996 Feb; 108(1):33–44

Mutational analysis eliminates Glu64 and Glu94 as candidates for 'catalytic carboxylate' in the bacterial ATP–binding–cassette protein MalK. Stein A, et al. **FEBS Lett** 1997 Aug 18;413(2):211–4

Asp–193 and Glu–218 of subunit II are involved in the Mn2+–binding of Paracoccus denitrificans cytochrome c oxidase. Witt H, et al. **FEBS Lett** 1997 Jun 9;409(2):128–30

Sacral glutamatergic transmission in the descending limb of the micturition reflex in the cat. Iwabuchi N. **Fukuoka Igaku Zasshi** 1997 Feb;88(2):30–8

The glial glutamate transporter in hyperammonemia and hepatic encephalopathy: relation to energy metabolism and glutamatergic neurotransmission. Norenberg MD, et al. **Glia** 1997 Sep;21(1):124–33

Hepatic encephalopathy and brain edema in acute hepatic failure: does glutamate play a role? [editorial; comment] Butterworth RF. **Hepatology** 1997 Apr;25(4):1032–4 (27 ref.). Comment on: Hepatology 1997 Apr;25(4):820–7.

Role of glutamate in the regulation of the outgrowth and motility of neurites from mouse spinal cord neurons in culture. Owen AD, et al. **J Anat** 1997 Aug;191 (Pt 2):301–7

Activation and involvement of p38 mitogen–activated protein kinase in glutamate–induced apoptosis in rat cerebellar granule cells. Kawasaki H, et al. **J Biol Chem** 1997 Jul 25;272(30):18518–21

Excitotoxicity and neuroprotection. Stahl SM. **J Clin Psychiatry** 1997 Jun;58(6):247–8

Differential glutamatergic innervation in cytochrome oxidase–rich and –poor regions of the macaque striate cortex: quantitative EM analysis of neurons and neuropil. Nie F, et al. **J Comp Neurol** 1996 Jun 10;369(4):571–90

Projection from the cerebellar lateral nucleus to precerebellar nuclei in the mossy fiber pathway is glutamatergic: a study combining anterograde tracing with immunogold labeling in the rat. Schwarz C, et al. **J Comp Neurol** 1997 May 12;381(3):320–34

Duality of glutamatergic and GABAergic control of pulsatile GnRH secretion by rat hypothalamic explants: I. Effects of antisense oligodeoxynucleotides using explants including or excluding the preoptic area. Bourguignon JP, et al. **J Neuroendocrinol** 1997 Mar;9(3):183–91

Osmotic modulation in glutamatergic excitatory synaptic inputs to neurons in the supraoptic nucleus of rat hypothalamus in vitro. Inenaga K, et al. **J Neuroendocrinol** 1997 Jan;9(1):63–8

Responses to glutamate in rat taste cells. Bigiani A, et al. **J Neurophysiol** 1997 Jun;77(6):3048–59

Glutamate currents in morphologically identified human dentate granule cells in temporal lobe epilepsy. Isokawa M, et al. **J Neurophysiol** 1997 Jun;77(6):3355–69

Dopaminergic modulation of glutamate–induced excitations of neurons in the neostriatum and nucleus accumbens of awake, unrestrained rats. Kiyatkin EA, et al. **J Neurophysiol** 1996 Jan;75(1):142–53

Glutamate–mediated slow synaptic currents in neonatal rat deep dorsal horn neurons in vitro. Miller BA, et al. **J Neurophysiol** 1996 Sep;76(3):1465–76

Local and propagated dendritic action potentials evoked by glutamate iontophoresis on rat neocortical pyramidal neurons. Schwindt PC, et al. **J Neurophysiol** 1997 May; 77(5):2466–83

Dopamine enhancement and depression of glutamate–regulated calcium and electrical activity in hypothalamic neurons. van den Pol AN, et al. **J Neurophysiol** 1996 Dec;76(6):3934–48

Biphasic modulation of spinal nociceptive transmission from the medullary raphe nuclei in the rat. Zhuo M, et al. **J Neurophysiol** 1997 Aug;78(2):74.–58

A population of supramammillary area calretinin neurons terminating on medial septal area cholinergic and lateral septal area calbindin–containing cells are aspartate/glutamatergic. Leranth C, et al. **J Neurosci** 1996 Dec 1;16(23):7699–710

Glutamate as a candidate retrograde messenger at interneurone–Purkinje cell synapses of rat cerebellum. Glitsch M, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):531–7

Endogenous monoamines inhibit glutamate transmission in the spinal trigeminal nucleus of the guinea–pig. Travagli RA, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):177–85

A two–process theory of schizophrenia: evidence from studies in post–mortem brain. Deakin JF, et al. **J Psychiatr Res** 1997 Mar–Apr;31(2):277–95 (130 ref.)

Inhibitory glutamate receptor channels. Cleland TA. **Mol Neurobiol** 1996 Oct;13(2):97–136 (114 ref.)

Functional and molecular analysis of glutamate–gated channels by patch–clamp and RT–PCR at the single cell level. Audinat E, et al. **Neurochem Int** 1996 Feb; 28(2):119–36 (49 ref.)

The role of glutamate in behavioral and neurotoxic effects of methamphetamine. Ohmori T, et al. **Neurochem Int** 1996 Sep;29(3):301–7 (41 ref.)

Glutamatergic regulation of [3H]acetylcholine release in striatal slices of normotensive and spontaneously hypertensive rats. Tsuda K, et al. **Neurochem Int** 1996 Sep; 29(3):231–7

Analysis of the ligand binding site of the 5–HT3 receptor using site directed mutagenesis: importance of glutamate 106. Boess FG, et al. **Neuropharmacology** 1997 Apr–May; 36(4–5):637–47

Glutamatergic deafferentation of olfactory bulb modulates the expression of mGluR1a mRNA. Ferraris N, et al. **Neuroreport** 1997 May 27;8(8):1949–53

Cholinergic–glutamatergic interactions in visual recognition memory of rhesus monkeys. Matsuoka N, et al. **Neuroreport** 1996 Jan 31;7(2):565–8

Effect of NMDA on the activity of cortical glutaminergic structures in delayed visual differentiation in monkeys. Dudkin KN, et al. **Neurosci Behav Physiol** 1997 Mar–Apr; 27(2):153–8

Synchronization processes in the mechanisms of short–term memory in monkeys: the involvement of cholinergic and glutaminergic cortical structures. Dudkin KN, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):303–8

Participation of the glutamatergic input of the nucleus accumbens in the regulation of the synaptic release of dopamine during associative learning. Saul'skaya NB, et al. **Neurosci Behav Physiol** 1996 Mar–Apr;26(2):174–81

Intracellular mechanisms of glutaminergic and cholinergic signal transduction in the cerebral cortex. Semenov DG, et al. **Neurosci Behav Physiol** 1997 May–Jun;27(3):240–4

Synaptic plasticity and physiological interactions between dopamine and glutamate in the striatum. Calabresi P, et al. **Neurosci Biobehav Rev** 1997 Jul;21(4):519–23 (60 ref.)

Dopamine/glutamate interactions in Parkinson's disease. Lange KW, et al. **Neurosci Biobehav Rev** 1997 Jul; 21(4):393–400 (75 ref.)

Dopamine/glutamate interaction as studied by combining turning behaviour and c–Fos expression. Morelli M. **Neurosci Biobehav Rev** 1997 Jul;21(4):505–9 (36 ref.)

Complex roles of glutamate in the Gibbs–Ng model of one–trial aversive learning in the new–born chick. Ng KT, et al. **Neurosci Biobehav Rev** 1997 Jan;21(1):45–54 (76 ref.)

Glutamatergic control over brain dopamine release in vivo and in vitro. Whitton PS. **Neurosci Biobehav Rev** 1997 Jul; 21(4):481–8 (82 ref.)

A patch clamp study of a glutamatergic chloride channel on pharyngeal muscle of the nematode Ascaris suum. Adelsberger H, et al. **Neurosci Lett** 1997 Jul 25;230(3):183–6

Modulation of Ca2+ channels by activation of adenosine A1 receptors in rat striatal glutamatergic nerve terminals. Ambrósio AF, et al. **Neurosci Lett** 1996 Dec 20; 220(3):163–6

An improved model for examining delayed excitotoxic neurodegeneration in isolated chick retina. Eggett CJ, et al. **Neurosci Lett** 1996 Nov 15;219(1):65–7

AMPA–selective glutamate receptor subunits and their relation to glutamate– and GABA–like immunoreactive terminals in the nucleus submedius of the rat. Hamlin L, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):149–52

Immunohistochemical localization of a metabotropic glutamate receptor, mGluR7, in ganglion neurons of the rat; with special reference to the presence in glutamatergic ganglion neurons. Li JL, et al. **Neurosci Lett** 1996 Feb 2; 204(1-2):9-12

Dopamine-glutamate interactions in the striatum: behaviourally relevant modification of excitotoxicity by dopamine receptor-mediated mechanisms. Garside S, et al. **Neuroscience** 1996 Dec;75(4):1065-74

P19 cells differentiate into glutamatergic and glutamate-responsive neurons in vitro. MacPherson PA, et al. **Neuroscience** 1997 Sep;80(2):487-99

Modifications in glutamatergic transmission after dopamine depletion of the nucleus accumbens. A combined in vivo/in vitro electrophysiological study in the rat. Mulder AB, et al. **Neuroscience** 1996 Jun;72(4):1009-21

Interaction of glutamatergic and adrenergic inputs of cortical neurons during conditioning. Storozhuk VM, et al. **Neuroscience** 1997 Feb;76(3):877-90

Feeding-evoked dopamine release in the nucleus, accumbens: regulation by glutamatergic mechanisms. Taber MT, et al. **Neuroscience** 1997 Feb;76(4):1105-12

Neurotransmission by neurons that use serotonin, noradrenaline, glutamate, glycine, and gamma-aminobutyric acid in the normal and injured spinal cord. Shapiro S. **Neurosurgery** 1997 Jan;40(1):168-76; discussion 177 (109 ref.)

Molecular biology and electrophysiology of glutamate-gated chloride channels of invertebrates. Cully DF, et al. **Parasitology** 1996;113 Suppl:S191-200 (64 ref.)

Molecular organization of cerebellar glutamate synapses. Ottersen OP, et al. **Prog Brain Res** 1997;114:97-107 (45 ref.)

Physiology of transmission at a giant glutamatergic synapse in cerebellum. Slater NT, et al. **Prog Brain Res** 1997; 114:151-63 (47 ref.)

The role of glutamate in the photic regulation of the suprachiasmatic nucleus. Ebling FJ. **Prog Neurobiol** 1996 Oct;50(2-3):109-32 (209 ref.)

Potentiation of glutamatergic EPSPs in rat CA1 hippocampal neurons after selective cholinergic denervation by 192 IgG-saporin. Jouvenceau A, et al. **Synapse** 1997 Jul; 26(3):292-300

An in vitro study of retinotectal transmission in the chick: role of glutamate and GABA in evoked field potentials. Dye JC, et al. **Vis Neurosci** 1996 Jul-Aug;13(4):747-58

The role of glutamic acid in the pathogenesis of stroke and the development of neuroprotective drugs. Evans SM, et al. **West Indian Med J** 1995 Dec;44(4):119-23 (35 ref.)

[Experimental study of methamphetamine psychosis--role of glutamate and nitric oxide in methamphetamine-induced dopaminergic and serotonergic neurotoxicity in the rat brain] Abekawa T. **Hokkaido Igaku Zasshi** 1997 Jan; 72(1):113-26 (Eng. Abstr.) **(Jpn)**

[Brain plasticity and the regulating substances] Miyamoto E, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):157-9 (6 ref.) **(Jpn)**

[Effect of electric skin stimulation on the level of succinate dehydrogenase activation and changes in the parameters of glutamatergic synaptic transmission in response ro sensory stimulation] Kudriashova IV, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):404-7 **(Rus)**

POISONING

Comparison of effects induced by toxic applications of kainate and glutamate by glucose deprivation on area CA1 of rat hippocampal slices. Alici K, et al. **Brain Res** 1996 Oct 28;738(1):109-20

BDNF prevents NO mediated glutamate cytotoxicity in cultured cortical neurons. Kume T, et al. **Brain Res** 1997 May 9;756(1-2):200-4

Mitochondrial dysfunction is a primary event in glutamate neurotoxicity. Schinder AF, et al. **J Neurosci** 1996 Oct 1;16(19):6125-33

Nuclear disintegration as a leading step of glutamate excitotoxicity in brain neurons. Ikeda J, et al. **J Neurosci Res** 1996 Mar 1;43(5):613-22

Erythropoietin receptor is expressed in rat hippocampal and cerebral cortical neurons, and erythropoietin prevents in vitro glutamate-induced neuronal death. Morishita E, et al. **Neuroscience** 1997 Jan;76(1):105-16

SECRETION

Hypothermia and isoflurane similarly inhibit glutamate release evoked by chemical anoxia in rat cortical brain slices. Eilers H, et al. **Anesthesiology** 1996 Sep;85(3):600-7

Effects of propofol on sodium channel-dependent sodium influx and glutamate release in rat cerebrocortical synaptosomes. Ratnakumari L, et al. **Anesthesiology** 1997 Feb;86(2):428-39

Effects of dexmedetomidine on hypoxia-evoked glutamate release and glutamate receptor activity in hippocampal slices. Talke P, et al. **Anesthesiology** 1996 Sep;85(3):551-7

The target of PKC induced suppression of adenosine inhibition of glutamate release from synaptosomes is downstream of the A1 receptor and G-protein coupling. Budd DC, et al. **Biochem Soc Trans** 1996 Aug;24(3):429S

Differences in the amount of glutamate released by neonatal and adult synaptosomes under conditions of in vitro ischaemia/reperfusion. Keelan J, et al. **Biochem Soc Trans** 1996 Aug;24(3):425S

A role for presynaptic AMPA receptors in the enhancement of neuronal glutamate release by kainic acid. Patel DR, et al. **Biochem Soc Trans** 1996 Aug;24(3):431S

Nociceptin induced inhibition of K+ evoked glutamate release from rat cerebrocortical slices. Nicol B, et al. **Br J Pharmacol** 1996 Nov;119(6):1081-3

Modulation of glutamate release by a nitric oxide/cyclic GMP-dependent pathway. Sistiaga A, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):247-57

Intrathecal administration of prostaglandin E2 causes sensitization of the primary afferent neuron via the spinal release of glutamate. Ferreira SH, et al. **Inflamm Res** 1996 Oct;45(10):499-502

Net glutamate release from astrocytes is not induced by extracellular potassium concentrations attainable in brain. Longuemare MC, et al. **J Neurochem** 1997 Aug; 69(2):879-82

Chronic cocaine enhances gamma-aminobutyric acid and glutamate release by altering presynaptic and not postsynaptic gamma-aminobutyric acidB receptors within the rat dorsolateral septal nucleus. Shoji S, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):129-37

Nitric oxide influences the release of histamine and glutamate in the rat hypothalamus. Prast H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):731-5

Effects of endotoxin on in vitro release of LHRH and amino acid neurotransmitters by preoptic mediobasal hypothalamic fragments. Feleder C, et al. **Neuroimmunomodulation** 1996 Mar-Jun;3(2-3):76-81

[Involvement of enhanced glutamate release in halogenated volatile anesthetic-induced excitation in mouse brain] Hirose T, et al. **Masui** 1997 Mar;46(3):338-43 (Eng. Abstr.) **(Jpn)**

THERAPEUTIC USE

Effect of glutamate-aspartate reperfusion on postischemic neonatal myocardium. Sett SS, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):462-6

[A preclinical evaluation of the pharmacological activity of a mixed potassium and magnesium glutamate] Berliand AS, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):16-9 (Eng. Abstr.) **(Rus)**

TOXICITY

Serum prevents glutamate-induced mitochondrial calcium accumulation in primary neuronal cultures. Dux E, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):264-72

Neuronal necrosis and apoptosis: two distinct events induced by exposure to glutamate or oxidative stress. Nicotera P, et al. **Adv Neurol** 1997;72:95-101 (53 ref.)

Detrimental effects of exogenous glutamate on spinal cord neurons during brief ischemia in vivo. Mori A, et al. **Ann Thorac Surg** 1997 Apr;63(4):1057-62

Effects of gangliosides, ouabain and arachidonic acid on glutamate cytotoxicity in PC12 cells. Cunha GM, et al. **Biol Pharm Bull** 1997 Feb;20(2):149-52

Inhibition of free radical production or free radical scavenging protects from the excitotoxic cell death mediated by glutamate in cultures of cerebellar granule neurons. Ciani E, et al. **Brain Res** 1996 Jul 22;728(1):1-6

Pituitary adenylate cyclase-activating polypeptide protects rat-cultured cortical neurons from glutamate-induced cytotoxicity. Morio H, et al. **Brain Res** 1996 Nov 25; 741(1-2):82-8

Involvement of platelet-activating factor (PAF) in glutamate neurotoxicity in rat neuronal cultures. Nogami K, et al. **Brain Res** 1997 Apr 18;754(1-2):72-8

Heat stress reduces glutamate toxicity in cultured neurons without hsp70 expression. Snider BJ, et al. **Brain Res** 1996 Aug 12;729(2):273-6

Age-dependent effects of glutamate toxicity in the hippocampus. Liu Z, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):178-84

Ibudilast protects against neuronal damage induced by glutamate in cultured hippocampal neurons. Tominaga Y, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul; 23(6-7):519-23

A glutamate-sensitizing activity in conditioned media derived from rat cerebellar granule cells. Ciotti MT, et al. **Eur J Neurosci** 1996 Aug;8(8):1591-600

Characterization of excitatory amino acid neurotoxicity in N-methyl-D-aspartate receptor-deficient mouse cortical neuronal cells. Tokita Y, et al. **Eur J Neurosci** 1996 Jan; 8(1):69-78

Effects of B vitamins on glutamate-induced neurotoxicity in retinal cultures. Kaneda K, et al. **Eur J Pharmacol** 1997 Mar 19;322(2-3):259-64

A novel NMDA receptor antagonist protects against N-methyl-D-aspartate- and glutamate-induced neurotoxicity in the goldfish retina. Tyan SH, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):171-9

Neuroprotective potential of aromatic alcohols against oxidative cell death. Moosmann B, et al. **FEBS Lett** 1997 Aug 25;413(3):467-72

Glutamate toxicity on a PC12 cell line involves glutathione (GSH) depletion and oxidative stress. Pereira CM, et al. **Free Radic Biol Med** 1997;23(4):637-47

Media composition modulates excitatory amino acid-induced death of rat cerebellar granule cells. Wood AM, et al. **Hum Exp Toxicol** 1997 Jul;16(7):350-5

Effect of a prolonged glutamate challenge on plasmalemmal calcium permeability in mammalian central neurones. Mn2+ as a tool to study calcium influx pathways. Khodorov BI, et al. **Int J Neurosci** 1996 Dec; 88(3-4):215-41

Protective effects of methylcobalamin, a vitamin B12 analog, against glutamate-induced neurotoxicity in retinal cell culture. Kikuchi M, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):848-54

Characterization of glutamate toxicity in cultured rat cerebellar granule neurons at reduced temperature. Berman FW, et al. **J Biochem Toxicol** 1996;11(3):111-9

Amyloid beta toxicity consists of a Ca(2+)-independent early phase and a Ca(2+)-dependent late phase. Abe K, et al. **J Neurochem** 1996 Nov;67(5):2074-8

Mitochondria, calcium regulation, and acute glutamate excitotoxicity in cultured cerebellar granule cells. Budd SL, et al. **J Neurochem** 1996 Dec;67(6):2282-91

The role of monoamine metabolism in oxidative glutamate toxicity. Maher P, et al. **J Neurosci** 1996 Oct 15; 16(20):6394-401

Glutamate toxicity enhances tau gene expression in neuronal cultures. Esclaire F, et al. **J Neurosci Res** 1997 Aug 1; 49(3):309-18

N-methyl-D-aspartate-mediated glutamate toxicity in the developing rabbit retina. Haberecht MF, et al. **J Neurosci Res** 1997 Feb 15;47(4):416-26

Selected P2 purinoceptor modulators prevent glutamate-evoked cytotoxicity in cultured cerebellar granule neurons. Volonté C, et al. **J Neurosci Res** 1996 Jul 15;45(2):183-93

Patterns of increased glucose use following extracellular infusion of glutamate: an autoradiographic study. Fujisawa H, et al. **J Neurotrauma** 1996 May;13(5):245-54

Lubeluzole, a novel long-term neuroprotectant, inhibits the glutamate-activated nitric oxide synthase pathway. Lesage AS, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):759-66

Carnitine and choline derivatives containing a trimethylamine group prevent ammonia toxicity in mice and glutamate toxicity in primary cultures of neurons. Miñana MD, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):194-9

Ether extract of fetal calf serum protects cultured rat cortical neurons against glutamate cytotoxicity. Kume T, et al. **Jpn J Pharmacol** 1997 Apr;73(4):371-4

Dodecylglycerol provides partial protection against glutamate toxicity in neuronal cultures derived from different regions of embryonic rat brain. Dave JR, et al. **Mol Chem Neuropathol** 1997 Jan-Feb;30(1-2):1-13

Glutamate toxicity in neuron-enriched and neuron-astrocyte co-cultures: effect of the glutamate uptake inhibitor L-trans-pyrrolidine-2,4-dicarboxylate. Amin N, et al. **Neurochem Int** 1997 Mar;30(3):271-6

NMDA receptor antagonists prevent acute ammonia toxicity in mice. Hermenegildo C, et al. **Neurochem Res** 1996 Oct; 21(10):1237-44

Contributing mechanisms for cysteine excitotoxicity in cultured cerebellar granule cells. Mathisen GA, et al. **Neurochem Res** 1996 Mar;21(3):293-8

Acute neurotoxicity of L-glutamate induced by impairment of the glutamate uptake system. Okazaki S, et al. **Neurochem Res** 1996 Oct;21(10):1201-7

Is infantile alternating hemiplegia mediated by glutamate toxicity and can it be treated with memantine? [letter] Korinthenberg R. **Neuropediatrics** 1996 Oct;27(5):277-8

Apparent independent action of nimodipine and glutamate antagonists to protect cultured neurons against glutamate-induced damage. Krieglstein J, et al. **Neuropharmacology** 1996;35(12):1737-42

Rapid uncoupling of oxidative phosphorylation accompanies glutamate toxicity in rat cerebellar granule cells. Atlante A, et al. **Neuroreport** 1996 Nov 4;7(15-17):2519-23

An adenovirus encoding CuZnSOD protects cultured striatal neurones against glutamate toxicity. Barkats M, et al. **Neuroreport** 1996 Jan 31;7(2):497-501

Glutamate toxicity in primary cerebellar cultures from mouse brain is unaffected by changes in cGMP levels. Malcolm CS, et al. **Neuroreport** 1996 Jul 8;7(10):1650-4

Huperzine A, a potential therapeutic agent for dementia, reduces neuronal cell death caused by glutamate. Ved HS, et al. **Neuroreport** 1997 Mar 3;8(4):963-8

Estrogen protects primary cortical neurons from glutamate toxicity. Singer CA, et al. **Neurosci Lett** 1996 Jul 5; 212(1):13-6

Blockade of calpain proteolytic activity rescues neurons from glutamate excitotoxicity. Rami A, et al. **Neurosci Res** 1997 Jan;27(1):93-7

Reactive oxygen species involved in the glutamate toxicity of C6 glioma cells via xc antiporter system. Mawatari K, et al. **Neuroscience** 1996 Jul;73(1):201-8

Protection by diphenyliodonium against glutamate neurotoxicity due to blocking of N-methyl-D-aspartate receptors. Nakamura Y, et al. **Neuroscience** 1997 Jan; 76(2):459-66

Bioenergetics and glutamate excitotoxicity. Greene JG, et al. **Prog Neurobiol** 1996 Apr;48(6):613-34 (305 ref.)

[Experimental techniques for developing new drugs acting on dementia (11)--Experimental methods on glutamate neurotoxicity] Akaike A, et al. **Nihon Shinkei Seishin Yakurigaku Zasshi** 1996 Jun; 16(3):91-6 (Eng. Abstr.) **(Jpn)**

[Toxic effect of glutamate on cultured cerebellar granular cells reduces the intracellular level of ATP. The role of

GLUTAMIC ACID

Ca2+ ions] Pinelis VG, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):162-4 **(Rus)**

[Calcium causes decrease in membrane potentials of mitochondria from cultured rat cerebellar granular cells during toxic exposure to glutamate] Stel'mashuk EV, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):378-80 **(Rus)**

[The toxic effect of glutamate and nitrite on the cyclic GMP level in neurons and their viability] Pinelis VG, et al. **Dokl Akad Nauk** 1997 Jan;352(2):259-61 **(Rus)**

GLUTAMIC ACID-SPECIFIC TRNA see **RNA, TRANSFER, GLU**

GLUTAMIC-OXALOACETIC TRANSAMINASE see **ASPARTATE AMINOTRANSFERASE**

GLUTAMIC-PYRUVIC TRANSAMINASE see **ALANINE AMINOTRANSFERASE**

GLUTAMINASE

ANALYSIS

Submitochondrial localization and membrane topography of Ehrlich ascitic tumour cell glutaminase. Aledo JC, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):173-84

Phosphate-activated glutaminase immunoreactivity in brainstem respiratory neurons. Pilowsky P, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1-2):85-90

BLOOD

Glutamine utilization by rat neutrophils. Curi TC, et al. **Biochem Soc Trans** 1997 May;25(2):249S

CHEMISTRY

Substrate binding is required for assembly of the active conformation of the catalytic site in Ntn amidotransferases: evidence from the 1.8 A crystal structure of the glutaminase domain of glucosamine 6-phosphate synthase [published erratum appears in Structure 1997 May 15;5(5):723] Isupov MN, et al. **Structure** 1996 Jul 15;4(7):801-10

GENETICS

Rat hepatic glutaminase: identification of the full coding sequence and characterization of a functional promoter. Chung-Bok MI, et al. **Biochem J** 1997 May 15;324 (Pt 1):193-200

Identification of an mRNA-binding protein and the specific elements that may mediate the pH-responsive induction of renal glutaminase mRNA. Laterza OF, et al. **J Biol Chem** 1997 Sep 5;272(36):22481-8

Hepatic glutaminase gene expression in the tumor-bearing rat. Elgadi KM, et al. **J Surg Res** 1997 Apr;69(1):33-9

METABOLISM

Glutamate transport regulation of renal glutaminase flux in vivo. Carter P, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E521-7

Identification of two glutaminases in Rhizobium etli. Durán S, et al. **Biochem Genet** 1996 Dec;34(11-12):453-65

Submitochondrial localization and membrane topography of Ehrlich ascitic tumour cell glutaminase. Aledo JC, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):173-84

Increased production of extracellular glutamate by the mitochondrial glutaminase following neuronal death. Newcomb R, et al. **J Biol Chem** 1997 Apr 25; 272(17):11276-82

Enteral branched-chain amino acids increase the specific activity of jejunal glutaminase and reduce jejunal atrophy. McCauley RD, et al. **J Gastroenterol Hepatol** 1997 Jun; 12(6):429-33

Characterization of the activation of glutaminase induced by N-methyl-D-aspartate and potassium in cerebellar granule cells. Alavez S, et al. **J Neurosci Res** 1996 Sep 1; 45(5):637-46

Analysis of glutaminase activity and RNA expression in preimplantation mouse embryos. Chatot CL, et al. **Mol Reprod Dev** 1997 Jul;47(3):248-54

GLUTAMINE

Resistance to activated protein C and Arg 506 Gln factor V mutation are uncommon in eastern Asian populations. Kodaira H, et al. **Acta Haematol** 1997;98(1):22-5

Altered ligand dissociation rates in thyrotropin-releasing hormone receptors mutated in glutamine 105 of transmembrane helix III. del Camino D, et al. **Biochemistry** 1997 Mar 18;36(11):3308-18

Time-resolved fourier transform infrared study of structural changes in the last steps of the photocycles of Glu-204 and Leu-93 mutants of bacteriorhodopsin. Kandori H, et al. **Biochemistry** 1997 Apr 29;36(17):5134-41

A functional determinant in human luteinizing hormone and chorionic gonadotropin: differential effect of mutations about beta-GLN-54. Hu SB, et al. **Endocrinology** 1997 Apr; 138(4):1627-33

Identification of two amino acids of the human cholecystokinin-A receptor that interact with the N-terminal moiety of cholecystokinin. Kennedy K, et al. **J Biol Chem** 1997 Jan 31;272(5):2920-6

Selective 15N labeling and direct observation by NMR of the active-site glutamine of Fe-containing superoxide dismutase. Vance CK, et al. **J Biomol NMR** 1997 Feb; 9(2):201-6

The crystal structure of glutamine-binding protein from Escherichia coli. Hsiao CD, et al. **J Mol Biol** 1996 Sep 20;262(2):225-42 (49 ref.)

Glutamine supplementation in artificial nutritional support. Powell-Tuck J. **Lancet** 1997 Aug 23;350(9077):534

Nuclear respiratory factors 1 and 2 utilize similar glutamine-containing clusters of hydrophobic residues to activate transcription. Gugneja S, et al. **Mol Cell Biol** 1996 Oct;16(10):5708-16

Glutamine: from basic science to clinical applications. Ziegler TR, et al. **Nutrition** 1996 Nov-Dec;12(11-12 Suppl):S68-70 (30 ref.)

Gly-63-->Gln substitution adjacent to His-64 in rodent carbonic anhydrase IVs largely explains their reduced activity. Tamai S, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13647-52

ADMINISTRATION & DOSAGE

Preoperative glutamine loading does not prevent endotoxemia in cardiac surgery. Suojaranta-Ylinen R, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):385-91

A double-blind, prospective, randomized study of glutamine-enriched compared with standard peptide-based feeding in critically ill patients [see comments] Jensen GL, et al. **Am J Clin Nutr** 1996 Oct;64(4):615-21. Comment in: Am J Clin Nutr 1996 Oct;64(4):645-7.

Some aspects of the acute phase response after a marathon race, and the effects of glutamine supplementation. Castell LM, et al. **Eur J Appl Physiol** 1997;75(1):47-53

Dietary L-glutamine supplementation reduces the growth of the Morris Hepatoma 7777 in exercise-trained and sedentary rats. Shewchuk LD, et al. **J Nutr** 1997 Jan; 127(1):158-66

Glutamine-enriched enteral diet enhances bacterial clearance in protected bacterial peritonitis, regardless of glutamine form [see comments] Furukawa S, et al. **JPEN J Parenter Enteral Nutr** 1997 Jul-Aug;21(4):208-14 . Comment in: JPEN J Parenter Enteral Nutr 1997 Jul-Aug;21(4):183-4.

Alanyl-glutamine-supplemented total parenteral nutrition improves survival and protein metabolism in rat protracted bacterial peritonitis model. Naka S, et al. **JPEN J Parenter Enteral Nutr** 1996 Nov-Dec;20(6):417-23

New treatment for patients with short-bowel syndrome: growth hormone, glutamine and a modified diet. Sax HC. **JPEN J Parenter Enteral Nutr** 1996 Sep-Oct;20(5):375-6

Glutamine-supplemented nutrition [editorial; comment] Smith RJ. **JPEN J Parenter Enteral Nutr** 1997 Jul-Aug; 21(4):183-4 (11 ref.). Comment on: JPEN J Parenter Enteral Nutr 1997 Jul-Aug;21(4):208-14.

Dietary L-glutamine does not improve lymphocyte metabolism or function in exercise-trained rats. Shewchuk LD, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):474-81

Effect of L-glutamine supplementation on impaired glucose regulation during intravenous lipid administration [see comments] Ballard TC, et al. **Nutrition** 1996 May; 12(5):349-54. Comment in: Nutrition 1996 May;12(5):375.

Parenteral glutamine supply in intensive care patients. Griffiths RD, et al. **Nutrition** 1996 Nov-Dec;12(11-12 Suppl):S73-5 (22 ref.)

Another potential clinical role for glutamine-supplemented parenteral nutrition? [editorial; comment] Jacobs DO. **Nutrition** 1996 May;12(5):375. Comment on: Nutrition 1996 May;12(5):349-54.

Development of an intravenous glutamine supply through dipeptide technology. Langer K. **Nutrition** 1996 Nov-Dec; 12(11-12 Suppl):S76-7 (8 ref.)

Effect of parenteral L-glutamine on muscle in the very severely ill. Palmer TE, et al. **Nutrition** 1996 May; 12(5):316-20

Brief clinical report: glutamine-enriched total parenteral nutrition in a patient with radiation-induced renal and intestinal fibrosis. Wicke C, et al. **Nutrition** 1996 Nov-Dec; 12(11-12 Suppl):S85-6

Glutamine saves lives! What does it mean? [editorial; comment] Wilmore DW. **Nutrition** 1997 Apr;13(4):375-6. Comment on: Nutrition 1997 Apr;13(4):295-302.

Influence of glutamine-supplemented parenteral nutrition on intestinal amino acid metabolism in rats after small bowel resection. Chen K, et al. **Surg Today** 1996;26(8):618-23

[Glutamine supplemented nutrition in clinical practice--use of glutamine-containing dipeptides (see comments)] Fürst P, et al. **Infusionsther Transfusionsmed** 1995 Oct; 22(5):317-24 (56 ref.) (Eng. Abstr.). Comment in: Infusionsther Transfusionsmed 1996 Apr;23(2):98-9. **(Ger)**

ANALOGS & DERIVATIVES

Interaction of gamma-L-glutamyltaurine with kainate-induced cyclic AMP formation in the rat hippocampus. Varga V, et al. **Adv Exp Med Biol** 1996; 403:473-9

Noninvasive probing of citric acid cycle intermediates in primate liver with phenylacetylglutamine. Yang D, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E882-9

Gamma-glutamyl peptides and related amino acids in rat hippocampus in vitro: effect of depolarization and gamma-glutamyl transpeptidase inhibition. Li X, et al. **Neurochem Int** 1996 Aug;29(2):121-8

ANALYSIS

Glutamine biosensors for biotechnology applications, with suppression of the endogenous glutamate signal. Mădăraş MB, et al. **Anal Chem** 1997 Sep 15;69(18):3674-8

Glutamine content of protein and peptide-based enteral products. Kuhn KS, et al. **JPEN J Parenter Enteral Nutr** 1996 Jul-Aug;20(4):292-5

Detection of glutamate/glutamine resonances by 1H magnetic resonance spectroscopy at 0.5 tesla. Prost RW, et al. **Magn Reson Med** 1997 Apr;37(4):615-8

[Miniature thin layer biosensors which are sensitive to glutamate and glutamine] Tiutrina GV, et al. **Vopr Med Khim** 1997 Jan-Feb;43(1):20-8 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Simultaneous prevention of glutamine synthesis and high-affinity transport attenuates Salmonella typhimurium virulence. Klose KE, et al. **Infect Immun** 1997 Feb; 65(2):587-96

gamma-Glutamyl hydrolase from human sarcoma HT-1080 cells: characterization and inhibition by glutamine antagonists. Waltham MC, et al. **Mol Pharmacol** 1997 May; 51(5):825-32

BLOOD

Decreased plasma glutamine level and CD4+ T cell number in response to 8 wk of anaerobic training. Hack V, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E788-95

Steady-state and non-steady-state measurements of plasma glutamine turnover in humans. Kreider ME, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E621-7

Glutamine utilization by rat neutrophils. Curi TC, et al. **Biochem Soc Trans** 1997 May;25(2):249S

Effect of carnitine on decrease of branched chain amino acids and glutamine in serum of septic rats. Hayashi N, et al. **Biol Pharm Bull** 1996 Jan;19(1):157-9

Insulin treatment can abolish changes in glucose and glutamine metabolism of lymphocytes and macrophages caused by the implantation of the Walker 256 tumour. Fernandes LC, et al. **Cell Biochem Funct** 1996 Sep; 14(3):187-92

The immune system and serum glutamine during a triathlon. Rohde T, et al. **Eur J Appl Physiol** 1996;74(5):428-34

Responses of plasma glutamine, free tryptophan and branched-chain amino acids to prolonged exercise after a regime designed to reduce muscle glycogen. Zanker CL, et al. **Eur J Appl Physiol** 1997;75(6):543-8

Low plasma glutamine in combination with high glutamate levels indicate risk for loss of body cell mass in healthy individuals: the effect of N-acetyl-cysteine. Kinscherf R, et al. **J Mol Med** 1996 Jul;74(7):393-400

Plasma glutamine and upper respiratory tract infection during intensified training in swimmers. Mackinnon LT, et al. **Med Sci Sports Exerc** 1996 Mar;28(3):285-90

Glutamine and arginine metabolism in tumor-bearing rats receiving total parenteral nutrition. Yoshida S, et al. **Metabolism** 1997 Apr;46(4):370-3

The emerging role of glutamine as an indicator of exercise stress and overtraining. Rowbottom DG, et al. **Sports Med** 1996 Feb;21(2):80-97 (124 ref.)

CEREBROSPINAL FLUID

Cerebrospinal fluid lactate and glutamine are reduced in multiple sclerosis. Aasly J, et al. **Acta Neurol Scand** 1997 Jan;95(1):9-12

CHEMISTRY

A fluorescent substrate of transglutaminase for detection and characterization of glutamine acceptor compounds. Pasternack R, et al. **Anal Biochem** 1997 Jun 15;249(1):54-60

Critical role of glutamine 252 in the hormone-dependent transcriptional activity of the thyroid hormone beta1 nuclear receptor. Bhat MK, et al. **Biochemistry** 1997 Apr 8;36(14):4233-9

Glutamine repeats and inherited neurodegenerative diseases: molecular aspects. Perutz MF. **Curr Opin Struct Biol** 1996 Dec;6(6):848-58 (62 ref.)

An inhibitor domain in Sp3 regulates its glutamine-rich activation domains. Dennig J, et al. **EMBO J** 1996 Oct 15;15(20):5659-67

Molecular basis of residue 192 participation in determination of coagulation protease specificity. Rezaie AR, et al. **Eur J Biochem** 1996 Dec 15;242(3):477-84

HB Gouda [alpha 72(EF1)His-->Gln], a new silent alpha chain variant. Giordano PC, et al. **Hemoglobin** 1996 Feb; 20(1):21-9

Low prevalence of activated protein C resistance and coagulation factor V Arg506 to Gln mutation among Japanese patients with various forms of thrombosis, and normal individuals. Zama T, et al. **Int J Hematol** 1996 Dec; 65(1):71-8

Protection of asparagine and glutamine during N alpha-Bpoc-based solid-phase peptide synthesis. Carey RI, et al. **Int J Pept Protein Res** 1996 Mar;47(3):209-13

Towards the understanding of the folding of methylene units in the glutamine residue. Alemán C, et al. **J Pept Sci** 1996 Nov-Dec;2(6):364-70

Novel N omega-xanthenyl-protecting groups for asparagine and glutamine, and applications to N alpha-9-fluorenylmethyloxycarbonyl (Fmoc) solid-phase peptide synthesis. Han Y, et al. **Pept Res** 1996 Jul-Aug; 9(4):166-73

Side reaction of S-to-N acetamidomethyl shift during disulfide bond formation by iodine oxidation of S-acetamidomethyl-cysteine in a glutamine-containing peptide. Lamthanh H, et al. **Pept Res** 1995 Nov-Dec; 8(6):316-20

Effect of nucleotide substrate binding on the pKa of catalytic residues in barnase. Gordon-Beresford RM, et al. **Proteins** 1996 Jun;25(2):180-94

Clinical features in 36 patients homozygous for the ARG 506-->GLN factor V mutation. Emmerich J, et al. **Thromb Haemost** 1997 Apr;77(4):620-3

Frequency of factor V Arg506 Gln in Italians [letter] [see comments] Mannucci PM, et al. **Thromb Haemost** 1996 Apr;75(4):694. Comment in: Thromb Haemost 1997 Jan;77(1):216-7.

Factor V enhances the cofactor function of protein S in the APC-mediated inactivation of factor VIII: influence of the factor VR506Q mutation. Váradi K, et al. **Thromb Haemost** 1996 Aug;76(2):208-14

DEFICIENCY

Glutamine: the link between depletion and diminished gut function? [editorial; comment] Soeters PB. **J Am Coll Nutr** 1996 Jun;15(3):195-6. Comment on: J Am Coll Nutr 1996 Jun;15(3):199-205.

Cell susceptibility to apoptosis by glutamine deprivation and rescue: survival and apoptotic death in cultured lymphoma-leukemia cell lines. Petronini PG, et al. **J Cell Physiol** 1996 Oct;169(1):175-85

[Glutamine deficiency of the intestine in Crohn disease: basic principles for substitution therapy] Sido B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:653-6 (Eng. Abstr.) **(Ger)**

DRUG EFFECTS

Glutamine, lymphocyte proliferation and cytokine production. Rohde T, et al. **Scand J Immunol** 1996 Dec; 44(6):648-50

GENETICS

Loss of activity of plasma platelet-activating factor acetylhydrolase due to a novel Gln281-->Arg mutation. Yamada Y, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):772-5

Role of Glu51 for cofactor binding and catalytic activity in pyruvate decarboxylase from yeast studied by site-directed mutagenesis. Killenberg-Jabs M, et al. **Biochemistry** 1997 Feb 18;36(7):1900-5

Ischaemic stroke in infancy and childhood: role of the Arg506 to Gln mutation in the factor V gene. Nowak-Göttl U, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):684-8

Arginine506 to glutamin mutation in the factor V gene in infancy and childhood: evidence of fibrinolytic impairment. Nowak-Göttl U, et al. **Eur J Pediatr** 1997 Mar;156(3):195-8

The glutamine 27 beta2-adrenoceptor polymorphism is associated with elevated IgE levels in asthmatic families. Dewar JC, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):261-5

Point counter point. UAR codons for glutamine. Jukes TH, et al. **J Mol Evol** 1997 Sep;45(3):207-8

Characterization of an expanded glutamine repeat androgen receptor in a neuronal cell culture system. Brooks BP, et al. **Neurobiol Dis** 1997;3(4):313-23

Low plasma levels of factor VIIc and antigen are more strongly associated with the 10 base pair promoter (-323) insertion than the glutamine 353 variant. Humphries S, et al. **Thromb Haemost** 1996 Apr;75(4):567-72

Identification of a new thyroglobulin variant: a guanine-to-adenine transition resulting in the substitution of arginine 2510 by glutamine. Mendive FM, et al. **Thyroid** 1997 Aug;7(4):587-91

Nucleotide sequence for HLA-A*2608 which encodes glutamine at codon 156. Szmania S, et al. **Tissue Antigens** 1996 Sep;48(3):210-2

METABOLISM

Effect of combined alanine and glutamine administration on the inhibition of liver regeneration caused by long-term administration of alcohol. Tanaka T, et al. **Alcohol Alcohol** 1994;29 Suppl 1:125-32

A double-blind, prospective, randomized study of glutamine-enriched compared with standard peptide-based feeding in critically ill patients [see comments] Jensen GL, et al. **Am J Clin Nutr** 1996 Oct;64(4):615-21. Comment in: Am J Clin Nutr 1996 Oct;64(4):645-7.

Glutamine supplementation in catabolic illness [editorial; comment] Ziegler TR. **Am J Clin Nutr** 1996 Oct; 64(4):645-7. Comment on: Am J Clin Nutr 1996 Oct;64(4):615-21.

Glycolysis is a source of pyruvate for transamination of glutamine amino nitrogen in jejunal epithelial cells. Cremin JD Jr, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G575-88

Enhanced metabolism of arginine and glutamine in enterocytes of cortisol-treated pigs. Flynn NE, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G474-80

Glutamine or glutamate release by the liver constitutes a major mechanism for nitrogen salvage. Rémésy C, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G257-64

Increased glutamine consumption in small intestine epithelial cells during sepsis in rats. Noguchi Y, et al. **Am J Surg** 1997 Mar;173(3):199-205

Gut endotoxin restriction prevents catabolic changes in glutamine metabolism after surgery in the bile duct-ligated rat. Houdijk AP, et al. **Ann Surg** 1997 Apr;225(4):391-400

Glutamine extraction by the gut is reduced in depleted [corrected] patients with gastrointestinal cancer [published erratum appears in Ann Surg 1997 Jul;226(1):114] van der Hulst RR, et al. **Ann Surg** 1997 Jan;225(1):112-21

An important role for pentose cycle in the synthesis of citrulline and proline from glutamine in porcine enterocytes. Wu G. **Arch Biochem Biophys** 1996 Dec 15; 336(2):224-30

Glutamine and other amino acid losses during continuous venovenous hemodiafiltration. Novák I, et al. **Artif Organs** 1997 May;21(5):359-63

Aspects of glutamine metabolism in human tumour cells. Colquhoun A, et al. **Biochem Mol Biol Int** 1997 Mar; 41(3):583-96

Changes in the intracellular concentration of myocardial glutamine in patients undergoing coronary artery bypass surgery using crystalloid and blood cardioplegia. Suleiman MS, et al. **Biochem Soc Trans** 1996 Aug;24(3):487S

Closed form of liganded glutamine-binding protein by rotational-echo double-resonance NMR. Klug CA, et al. **Biochemistry** 1997 Aug 5;36(31):9405-8

Effect of ischaemia and reperfusion on the intracellular concentration of taurine and glutamine in the hearts of patients undergoing coronary artery surgery. Suleiman MS, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):223-31

Glucose and glutamine metabolism in C6 glioma cells studied by carbon 13 NMR. Portais JC, et al. **Biochimie** 1996; 78(3):155-64

Metabolic adaptation of terminal ileal mucosa after construction of an ileoanal pouch. Chapman MA, et al. **Br J Surg** 1997 Jan;84(1):71-3

Glutamate, glutamine and glutamine synthetase in the neonatal rat brain following hypoxia. Krajnc D, et al. **Brain Res** 1996 Jan 22;707(1):134-7

Glutamine transport in cerebellar granule cells in culture. Su TZ, et al. **Brain Res** 1997 May 16;757(1):69-78

Prevention of diabetes in the spontaneously diabetic BB rat by the glutamine antimetabolite acivicin. Misra M, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):163-72

Effects of concanavalin A and phorbol myristate acetate on glutamine metabolism and proliferation of porcine intestinal intraepithelial lymphocytes. Wu G. **Comp Biochem Physiol A Physiol** 1996 Aug;114(4):363-8

Enteral administration of ornithine alpha-ketoglutarate or arginine alpha-ketoglutarate: a comparative study of their effects on glutamine pools in burn-injured rats. Le Boucher J, et al. **Crit Care Med** 1997 Feb;25(2):293-8

Mass isotopomer study of glutamine oxidation and synthesis in primary culture of astrocytes. Lee WN, et al. **Dev Neurosci** 1996;18(5-6):469-77

New insights into the compartmentation of glutamate and glutamine in cultured rat brain astrocytes. McKenna MC, et al. **Dev Neurosci** 1996;18(5-6):380-90

[1-13C]glucose metabolism in brain cells: isotopomer analysis of glutamine from cerebellar astrocytes and glutamate from granule cells. Merle M, et al. **Dev Neurosci** 1996; 18(5-6):460-8

Use of intracellular versus extracellular specific activities in calculation of glutamine metabolism in astrocytes: effect of dibutyryl cyclic AMP. Zielke HR, et al. **Dev Neurosci** 1996;18(3):224-30

Alterations in carrier-mediated glutamine transport after a model of canine jejunal autotransplantation. Oishi AJ, et al. **Dig Dis Sci** 1996 Oct;41(10):1915-24

Parenteral nutrition modifies glucose and glutamine metabolism in rat isolated enterocytes. Colomb V, et al. **Gastroenterology** 1997 Feb;112(2):429-36

Glutamine depletion and increased gut permeability in nonanorectic, non-weight-losing tumor-bearing rats. De Blaauw I, et al. **Gastroenterology** 1997 Jan;112(1):118-26

Glutamine, myo-inositol, and organic brain osmolytes after portocaval anastomosis in the rat: implications for ammonia-induced brain edema. Cordoba J, et al. **Hepatology** 1996 Oct;24(4):919-23

Simultaneous prevention of glutamine synthesis and high-affinity transport attenuates Salmonella typhimurium virulence. Klose KE, et al. **Infect Immun** 1997 Feb; 65(2):587-96

Effect of glutamine or glucagon-insulin enriched total parenteral nutrition on liver and gut in 70% hepatectomized rats with colon stenosis. Yamaguchi T, et al. **J Am Coll Surg** 1997 Aug;185(2):156-62

Identification of four amino acids in the gastrin-releasing peptide receptor that are required for high affinity agonist binding. Akeson M, et al. **J Biol Chem** 1997 Jul 11; 272(28):17405-9

Evidence for proton transfer from Glu-46 to the chromophore during the photocycle of photoactive yellow protein. Imamoto Y, et al. **J Biol Chem** 1997 May 16; 272(20):12905-8

Molecular studies of the asymmetric pore structure of the human cardiac voltage- dependent Ca2+ channel. Conserved residue, Glu-1086, regulates proton-dependent ion permeation. Klöckner U, et al. **J Biol Chem** 1996 Sep 13;271(37):22293-6

Identification of cytoplasmic actin as an abundant glutaminyl substrate for tissue transglutaminase in HL-60 and U937 cells undergoing apoptosis. Nemes Z Jr, et al. **J Biol Chem** 1997 Aug 15;272(33):20577-83

Regulation of [15N]urea synthesis from [5-15N]glutamine. Role of pH, hormones, and pyruvate. Nissim I, et al. **J Biol Chem** 1996 Dec 6;271(49):31234-42

Increased red cell glutamine availability in sickle cell anemia: demonstration of increased active transport, affinity, and increased glutamate level in intact red cells. Niihara Y, et al. **J Lab Clin Med** 1997 Jul;130(1):83-90

Amino acid utilisation and deamination of glutamine and asparagine by Helicobacter pylori. Stark RM, et al. **J Med Microbiol** 1997 Sep;46(9):793-800

Severity of hyperammonemic encephalopathy correlates with brain ammonia level and saturation of glutamine synthetase in vivo. Kanamori K, et al. **J Neurochem** 1996 Oct; 67(4):1584-94

Metabolism of [U-13C5] glutamine in cultured astrocytes studied by NMR spectroscopy: first evidence of astrocytic pyruvate recycling. Sonnewald U, et al. **J Neurochem** 1996 Dec;67(6):2566-72

Glucocorticoids play an important role in mediating the enhanced metabolism of arginine and glutamine in enterocytes of postweaning pigs. Flynn NE, et al. **J Nutr** 1997 May;127(5):732-7

Dietary L-glutamine supplementation reduces the growth of the Morris Hepatoma 7777 in exercise-trained and sedentary rats. Shewchuk LD, et al. **J Nutr** 1997 Jan; 127(1):158-66

Ultrastructural characteristics of glutamatergic and GABAergic terminals in cat lamina IX before and after spinal cord injury. Tai Q, et al. **J Spinal Cord Med** 1997 Jul;20(3):311-8

Increased whole-body protein and glutamine turnover in advanced cancer is not matched by an increased muscle protein and glutamine turnover. de Blaauw I, et al. **J Surg Res** 1997 Feb 15;68(1):44-55

Alterations in oxidative metabolism and glutamine transport support glucose production in the tumor-influenced hepatocyte. Fischer CP, et al. **J Surg Res** 1997 May; 69(2):379-84

Dichloroacetate inhibits glutamine oxidation by decreasing pyruvate availability for transamination. Murray K, et al. **Metabolism** 1997 Mar;46(3):268-72

A glutamate/glutamine/aspartate/asparagine transport operon in Rhodobacter capsulatus. Zheng S, et al. **Mol Microbiol** 1996 Jun;20(5):1001-11

Toxin-induced activation of the G protein p21 Rho by deamidation of glutamine. Flatau G, et al. **Nature** 1997 Jun 12;387(6634):729-33

Gln 63 of Rho is deamidated by Escherichia coli cytotoxic necrotizing factor-1. Schmidt G, et al. **Nature** 1997 Jun 12;387(6634):725-9

Effect of alpha-ketoisocaproate and leucine on the in vivo oxidation of glutamate and glutamine in the rat brain. Zielke HR, et al. **Neurochem Res** 1997 Sep;22(9):1159-64

Intranuclear inclusions of expanded polyglutamine protein in spinocerebellar ataxia type 3. Paulson HL, et al. **Neuron** 1997 Aug;19(2):333-44

Correlation of in vivo nitric oxide and cGMP with glutamate/glutamine metabolism in the rat striatum. Ohta K, et al. **Neurosci Res** 1996 Aug;25(4):379-84

Neuronal and glial handling of glutamate and glutamine during hypoosmotic stress: a biochemical and quantitative immunocytochemical analysis using the rat cerebellum as a model. Nagelhus EA, et al. **Neuroscience** 1996 Jun; 72(3):743-55

Glial and neuronal glutamine pools at glutamatergic synapses with distinct properties. Shupliakov O, et al. **Neuroscience** 1997 Apr;77(4):1201-12

Protein and energy metabolism in prepubertal children with sickle cell anemia. Salman EK, et al. **Pediatr Res** 1996 Jul; 40(1):34-40

Glutamine transport in human and rat placenta. Novak DA, et al. **Placenta** 1997 Jul-Aug;18(5-6):379-86

Peptides containing glutamine repeats as substrates for transglutaminase-catalyzed cross-linking: relevance to diseases of the nervous system [see comments] Kahlem P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14580-5 . Comment in: Proc Natl Acad Sci U S A 1996 Dec 10;93(25):14310-3.

In vivo 13C NMR measurements of cerebral glutamine synthesis as evidence for glutamate-glutamine cycling. Sibson NR, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2699-704

Liver protein and glutamine metabolism during cachexia. Hulsewé KW, et al. **Proc Nutr Soc** 1997 Jul;56(2):801-6 (23 ref.)

Ammonia and glutamine metabolism during liver insufficiency: the role of kidney and brain in interorgan nitrogen exchange. Dejong CH, et al. **Scand J Gastroenterol Suppl** 1996;218:61-77 (134 ref.)

An in vivo proton magnetic resonance spectroscopy study of schizophrenia patients. Stanley JA, et al. **Schizophr Bull** 1996;22(4):597-609

Effects of endotoxin on intestinal hemodynamics, glutamine metabolism, and function. Haque SM, et al. **Surg Today** 1997;27(6):500-5

Glutamine metabolism of intestine grafts: influence of

mucosal injury by prolonged preservation and transplantation. Nemoto A, et al. **Transplant Proc** 1996 Oct; 28(5):2545–6

PHARMACOKINETICS

Both growth hormone and exogenous glutamine increase gastrointestinal glutamine uptake in trauma. Unneberg K, et al. **Ann Surg** 1997 Jan;225(1):97–102

The effect of glutamine administration on intestinal glutamine content. van der Hulst RR, et al. **J Surg Res** 1996 Feb 15;61(1):30–4

Ammonia stimulates glutamine uptake to the cerebral non–synaptic mitochondria of the rat. Dolińska M, et al. **Neurosci Lett** 1996 Jul 26;213(1):45–8

PHARMACOLOGY

Effect of combined alanine and glutamine administration on the inhibition of liver regeneration caused by long–term administration of alcohol. Tanaka T, et al. **Alcohol Alcohol** 1994;29 Suppl 1:125–32

A prospective randomized study of glutamine–enriched parenteral compared with enteral feeding in postoperative patients. Fish J, et al. **Am J Clin Nutr** 1997 Apr; 65(4):977–83

Effect of glutamine on leucine metabolism in humans. Hankard RG, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E748–54

Glutamine interferes with glucocorticoid–induced expression of glutamine synthetase in skeletal muscle. Hickson RC, et al. **Am J Physiol** 1996 May;270(5 Pt 1):E912–7

L–glutamine stimulates intestinal cell proliferation and activates mitogen–activated protein kinases. Rhoads JM, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G943–53

Gut adaptation and the insulin–like growth factor system: regulation by glutamine and IGF–I administration. Ziegler TR, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G866–75

Regulation of protein turnover by glutamine in heat–shocked skeletal myotubes. Zhou X, et al. **Biochim Biophys Acta** 1997 Jun 27;1357(2):234–42

Corneal organ culture: effects of serum and a stabilised form of L–glutamine. Ayoubi MG, et al. **Br J Ophthalmol** 1996 Aug;80(8):740–4

Arginine, glutamine, and dehydroepiandrosterone reverse the immunosuppressive effect of prednisone during gut–derived sepsis [see comments] Gennari R, et al. **Crit Care Med** 1997 Jul;25(7):1207–14. Comment in: Crit Care Med 1997 Jul;25(7):1110–1.

Glutamine is superior to glucose in stimulating water and electrolyte absorption across rabbit ileum. Islam S, et al. **Dig Dis Sci** 1997 Feb;42(2):420–3

Glutamine inhibits the lowering effect of glucose on the level of phosphoenolpyruvate carboxykinase mRNA in isolated rat hepatocytes. Lavoinne A, et al. **Eur J Biochem** 1996 Dec 15;242(3):537–43

The effect of L–glutamine on salt and water absorption: a jejunal perfusion study in cholera in humans. van Loon FP, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):443–8

No differences in mucosal adaptive growth one week after intestinal resection in rats given enteral glutamine supplementation or deprived of glutamine. Wirén ME, et al. **Eur J Surg** 1996 Jun;162(6):489–98

Oral glutamine challenge in cirrhotics pre– and post–liver transplantation: a psychometric and analyzed EEG study. Oppong KN, et al. **Hepatology** 1997 Oct;26(4):870–6

Nonessential amino acids and glutamine decrease the time of the first three cleavage divisions and increase compaction of mouse zygotes in vitro. Lane M, et al. **J Assist Reprod Genet** 1997 Aug;14(7):398–403

Cell susceptibility to apoptosis by glutamine deprivation and rescue: survival and apoptotic death in cultured lymphoma–leukemia cell lines. Petronini PG, et al. **J Cell Physiol** 1996 Oct;169(1):175–85

Effect of enteral glutamine on intestinal permeability and bacterial translocation after abdominal radiation injury in rats. Chun H, et al. **J Gastroenterol** 1997 Apr;32(2):189–95

Dietary glutamine supplementation prevents jejunal atrophy in weaned pigs. Wu G, et al. **J Nutr** 1996 Oct; 126(10):2578–84

Growth hormone and glutamine do not stimulate intestinal adaptation following massive small bowel resection in the rat. Vanderhoof JA, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):327–31

L–glutamine inhibits nitric oxide synthesis in bovine venular endothelial cells. Meininger CJ, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):448–53

Glutamine–enriched total parenteral nutrition enhances plasma glutathione in the resting state. Denno R, et al. **J Surg Res** 1996 Feb 15;61(1):35–8

Effects of the amino acid glutamine on frequency of chromosomal aberrations induced by gamma radiation in Wistar rats. Tavares DC, et al. **Mutat Res** 1996 Sep 13; 370(2):121–6

Effectors of D–[3H]aspartate release from rat cerebellum. Svarna R, et al. **Neurochem Res** 1996 May;21(5):603–8

Glutamine stimulates gamma–aminobutyric acid synthesis in synaptosomes but other putative astrocyte–to–neuron shuttle substrates do not. Battaglioli G, et al. **Neurosci Lett** 1996 May 10;209(2):129–33

Effect of glutamine on immune function in the surgical patient. O'Riordain MG, et al. **Nutrition** 1996 Nov–Dec; 12(11–12 Suppl):S82–4 (14 ref.)

Glutamine metabolism in very low birth weight infants. Darmaun D, et al. **Pediatr Res** 1997 Mar;41(3):391–6

Addition of glutamine does not improve protein synthesis and jejunal mucosa morphology in non–hypercatabolic stress. Garcia–Arumi E, et al. **Physiol Res** 1995;44(4):233–9

Protective effect of glutamine from glucocorticoid–induced muscle atrophy occurs without alterations in circulating insulin–like growth factor (IGF)–I and IGF–binding protein levels. Hickson RC, et al. **Proc Soc Exp Biol Med** 1997 Oct;216(1):65–71

Effect of glutamine–enriched total parenteral nutrition on small intestinal gut–associated lymphoid tissue and upper respiratory tract immunity. Li J, et al. **Surgery** 1997 May; 121(5):542–9

The effect of hypotonicity, glutamine, and glycine on red cell preservation. Greenwalt TJ, et al. **Transfusion** 1997 Mar;37(3):269–76

Glutamine improves cold–preserved small bowel graft structure and function following ischemia and reperfusion. Lew JI, et al. **Transplant Proc** 1996 Oct;28(5):2605–6

Optimum small bowel preservation solutions and conditions: comparison of UW solution and saline with or without glutamine. Sasaki K, et al. **Transplant Proc** 1996 Oct; 28(5):2620–1

[Enhancement of gut immune function by early enteral feeding enriched with L–glutamine in severe burned miniswines] Yu B, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):98–100 (Eng. Abstr.) **(Chi)**

[Enhancement of gut absorptive function by early enteral feeding enriched with L–glutamine in severe burned miniswines] Yu B, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):742–4 (Eng. Abstr.) **(Chi)**

PHYSIOLOGY

Presynaptic mechanisms in central synaptic transmission: 'biochemistry' of an intact glutamatergic synapse. Shupliakov O, et al. **Acta Physiol Scand** 1996 Jul; 157(3):369–79 (60 ref.)

Regulation of gluconeogenesis by glutamine in normal postabsorptive humans. Perriello G, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E437–45

Glutamine protects intestinal epithelial cells: role of inducible HSP70. Wischmeyer PE, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 1):G879–84

Role of Glu51 for cofactor binding and catalytic activity in pyruvate decarboxylase from yeast studied by site–directed mutagenesis. Killenberg–Jabs M, et al. **Biochemistry** 1997 Feb 18;36(7):1900–5

Glutamine and regulation of gene expression in mammalian cells. Special reference to phosphoenolpyruvate carboxykinase (PEPCK). Quillard M, et al. **Biochimie** 1997 Feb–Mar;79(2–3):125–8

Dopamine regulates the glutamatergic inner hair cell activity in guinea pigs. Oestreicher E, et al. **Hear Res** 1997 May; 107(1–2):46–52

Glutamine: is it a conditionally required nutrient for the human gastrointestinal system?[see comments] Buchman AL. **J Am Coll Nutr** 1996 Jun;15(3):199–205 (76 ref.). Comment in: J Am Coll Nutr 1996 Jun;15(3):195–6.

Direct measurement of AMPA receptor desensitization induced by glutamatergic synaptic transmission. Otis T, et al. **J Neurosci** 1996 Dec 1;16(23):7496–504

Arterial–jugular vein free amino acid levels in patients with head injuries: important role of glutamine in cerebral nitrogen metabolism. Petersen SR, et al. **J Trauma** 1996 Oct;41(4):687–94; discussion 694–5

Role of glutamine in bacterial transcytosis and epithelial cell injury. Panigrahi P, et al. **JPEN J Parenter Enteral Nutr** 1997 Mar–Apr;21(2):75–80

Glutamine: a conditionally required nutrient for the human intestine? [editorial] Buchman AL. **Nutrition** 1997 Mar; 13(3):240–1

Role of glutamine in the immune response in critical illness. Heberer M, et al. **Nutrition** 1996 Nov–Dec;12(11–12 Suppl):S71–2

Glutamine: an essential amino acid for the gut. van der Hulst RR, et al. **Nutrition** 1996 Nov–Dec;12(11–12 Suppl):S78–81 (22 ref.)

The role of glutamine and other alternate substrates as energy sources in the fetal rat lung type II cell. Fox RE, et al. **Pediatr Res** 1996 Jul;40(1):135–41

[Effect of calcium and substrates on post–anoxic energy metabolism of isolated acinar cells of the rat pancreas] Kosowski H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:699–703 (Eng. Abstr.) **(Ger)**

[Glutamine—more than a "nonessential" amino acid (editorial; comment] Druml W. **Wien Klin Wochenschr** 1996; 108(21):667–8. Comment on: Wien Klin Wochenschr 1996 ;108(21):669–76. **(Ger)**

[Glutamine: effects on the immune system, protein balance and intestinal functions (see comments)] Roth E, et al. **Wien Klin Wochenschr** 1996;108(21):669–76 (59 ref.) (Eng. Abstr.). Comment in: Wien Klin Wochenschr 1996 ;108(21):667–8. **(Ger)**

[Metabolic role of glutamine and its importance in nutritional therapy] Fraga Fuentes MD, et al. **Nutr Hosp** 1996 Jul–Aug;11(4):215–25 (99 ref.) (Eng. Abstr.) **(Spa)**

SECRETION

L–deprenyl (selegiline) decreases excitatory synaptic transmission in the rat hippocampus via a dopaminergic mechanism. Hsu KS, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):740–7

THERAPEUTIC USE

Nutritional hope or hype for short bowel syndrome? Weireiter L. **Am J Gastroenterol** 1996 Oct;91(10):2246–7

Claude H. Organ, Jr. Honorary Lectureship. Glutamine, cancer, and its therapy. Klimberg VS, et al. **Am J Surg** 1996 Nov;172(5):418–24

Both growth hormone and exogenous glutamine increase gastrointestinal glutamine uptake in trauma. Unneberg K, et al. **Ann Surg** 1997 Jan;225(1):97–102

Effect of glutamine or glycine containing oral electrolyte solutions on mucosal morphology, clinical and biochemical findings, in calves with viral induced diarrhea. Naylor JM, et al. **Can J Vet Res** 1997 Jan;61(1):43–8

Does glutamine have a role in reducing infections in athletes? Castell LM, et al. **Eur J Appl Physiol** 1996;73(5):488–90

Oral glutamine in the prevention of chemotherapy–induced gastrointestinal toxicity [letter] Muscaritoli M, et al. **Eur J Cancer** 1997 Feb;33(2):319–20

Magnesium pyridoxal–5'–phosphate glutamate, "A vitamin B6 derivative", does not affect lipoprotein levels in patients with familial hypercholesterolaemia. Knipscheer HC, et al. **Eur J Clin Pharmacol** 1997;51(6):499–503

Effect of growth hormone, glutamine, and diet on adaptation in short–bowel syndrome: a randomized, controlled study [see comments] Scolapio JS, et al. **Gastroenterology** 1997 Oct;113(4):1074–81. Comment in: Gastroenterology 1997 Oct;113(4):1402–5.

Effect of L–glutamine and n–butyrate on the restitution of rat colonic mucosa after acid induced injury. Scheppach W, et al. **Gut** 1996 Jun;38(6):878–85

Glutamine: is it a conditionally required nutrient for the human gastrointestinal system?[see comments] Buchman AL. **J Am Coll Nutr** 1996 Jun;15(3):199–205 (76 ref.). Comment in: J Am Coll Nutr 1996 Jun;15(3):195–6.

Glutamine: the link between depletion and diminished gut function? [editorial; comment] Soeters PB. **J Am Coll Nutr** 1996 Jun;15(3):195–6. Comment on: J Am Coll Nutr 1996 Jun;15(3):199–205.

Glutamine–supplemented tube feedings versus total parenteral nutrition in children receiving intensive chemotherapy. Ford C, et al. **J Pediatr Oncol Nurs** 1997 Apr;14(2):68–72

The effect of glutamine administration on intestinal glutamine content. van der Hulst RR, et al. **J Surg Res** 1996 Feb 15;61(1):30–4

Protective effects of glutamine enriched diets on acute actinic enteritis. Campos FG, et al. **Nutr Hosp** 1996 May–Jun; 11(3):167–77 (140 ref.)

Six–month outcome of critically ill patients given glutamine–supplemented parenteral nutrition [see comments] Griffiths RD, et al. **Nutrition** 1997 Apr; 13(4):295–302. Comment in: Nutrition 1997 Apr;13(4):375–6.

Glutamine saves lives! What does it mean? [editorial; comment] Wilmore DW. **Nutrition** 1997 Apr;13(4):375–6. Comment on: Nutrition 1997 Apr;13(4):295–302.

[Early enteral feeding and supplement of glutamine prevent occurrence of stress ulcer following severe thermal injury] Yan R, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 May;11(3):189–92 (Eng. Abstr.) **(Chi)**

[The role of glutamine in nutrition in clinical practice] Campos FG, et al. **Arq Gastroenterol** 1996 Apr–Jun; 33(2):86–92 (47 ref.) (Eng. Abstr.) **(Por)**

[Metabolic role of glutamine and its importance in nutritional therapy] Fraga Fuentes MD, et al. **Nutr Hosp** 1996 Jul–Aug;11(4):215–25 (99 ref.) (Eng. Abstr.) **(Spa)**

GLUTAMINE KETOGLUTARATE AMIDOTRANSFERASE see **GLUTAMATE SYNTHASE**

GLUTAMINE PHOSPHORIBOSYL PYROPHOSPHATE AMIDOTRANSFERASE see **AMIDOPHOSPHORIBOSYLTRANSFERASE**

GLUTAMINE-SPECIFIC TRNA see **RNA, TRANSFER, GLN**

GLUTAMINE SYNTHETASE see **GLUTAMATE-AMMONIA LIGASE**

GLUTAMINYL-PEPTIDE GAMMA-GLUTAMYLTRANSFERASE see **PROTEIN-GLUTAMINE GAMMA-GLUTAMYLTRANSFERASE**

GLUTAMYL T RNA SYNTHETASE

CHEMISTRY

Crystal structures of three misacylating mutants of Escherichia coli glutaminyl-tRNA synthetase complexed with tRNA(Gln) and ATP. Arnez JG, et al. **Biochemistry** 1996 Nov 26;35(47):14725–33

GENETICS

Evolution of the aminoacyl-tRNA synthetase family and the organization of the Drosophila glutamyl-prolyl-tRNA synthetase gene. Intron/exon structure of the gene, control of expression of the two mRNAs, selective advantage of the multienzyme complex. Cerini C, et al. **Eur J Biochem** 1997 Feb 15;244(1):176–85

Homologs of Escherichia coli recJ, gltX and of a putative 'early' gene of avian Chlamydia psittaci are located upstream of the 'late' omp2 locus of Chlamydia psittaci strain guinea pig inclusion conjunctivitis. Hsia RC, et al. **Gene** 1996 Oct 17;176(1–2):163–9

Engineering a tRNA and aminoacyl-tRNA synthetase for the site-specific incorporation of unnatural amino acids into proteins in vivo. Liu DR, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10092–7

METABOLISM

The yeast protein Arc1p binds to tRNA and functions as a cofactor for the methionyl- and glutamyl-tRNA synthetases. Simos G, et al. **EMBO J** 1996 Oct 1; 15(19):5437–48

Role of zinc in tRNA-acceptor stem binding by glutamyl-tRNA synthetase from E.coli: a molecular modeling study. Bothra AK, et al. **J Biomol Struct Dyn** 1997 Aug;15(1):19–25

GLUTAMYL TRANSPEPTIDASE see **GAMMA-GLUTAMYLTRANSFERASE**

GLUTARAL

Kinesin movement on glutaraldehyde-fixed microtubules. Turner D, et al. **Anal Biochem** 1996 Nov 1;242(1):20–5

Glutaraldehyde [letter] Ball CK. **AORN J** 1996 Jan; 63(1):22–5

Safer use of glutaraldehyde. Pisaniello DL, et al. **AORN J** 1997 Jun;65(6):1114–5

Application of glutaraldehyde-crosslinked chitosan as a scaffold for hepatocyte attachment. Kawase M, et al. **Biol Pharm Bull** 1997 Jun;20(6):708–10

Denatured thiolated collagen. II. Cross-linking by oxidation. Nicolas FL, et al. **Biomaterials** 1997 Jun;18(11):815–21

Increase in the lumen of the femoral artery in dogs with an arteriotomy encircled by glutaraldehyde-tanned calf pericardium. Sotelo J, et al. **Heart Vessels** 1996; 11(6):318–21

Glutaraldehyde for electron microscopy: a practical investigation of commercial glutaraldehydes and glutaraldehyde-storage conditions. Prentø P. **Histochem J** 1995 Nov;27(11):906–13

Establishment of an in-use testing method for evaluating disinfection of surgical instruments using the duck hepatitis B model. Deva AK, et al. **J Hosp Infect** 1996 Jun; 33(2):119–30

The use of polyvinyl alcohol glutaraldehyde as solid-phase in ELISA for plague. Araujo AM, et al. **Mem Inst Oswaldo Cruz** 1996 Mar-Apr;91(2):195–8

[A method of improving the attachment of paraffin sections to a glass slide] Zavalishina LE, et al. **Arkh Patol** 1997 Jul-Aug;59(4):63–5 (Eng. Abstr.) **(Rus)**

ADMINISTRATION & DOSAGE

1989: New technique for repair of ascending thoracic aortic dissections. Updated in 1997. Hammond GL. **Ann Thorac Surg** 1997 Jan;63(1):287

ADVERSE EFFECTS

Risk factors for pancreatitis [letter] Mee AS, et al. **Gut** 1997 Feb;40(2):289

Corneal decompensation after cataract surgery. An outbreak investigation in Asia [see comments] Courtright P, et al. **Ophthalmology** 1995 Oct;102(10):1461–5. Comment in: Ophthalmology 1996 Feb;103(2):200.

[Chemical colitis caused by glutaraldehyde] Coche G, et al. **J Radiol** 1997 Mar;78(3):215–7 (Eng. Abstr.) **(Fre)**

[Colitis caused by glutaraldehyde complicating an endoscopy: a new case (letter)] Beaufort P, et al. **Presse Med** 1996 Sep 21;25(27):1257 **(Fre)**

[Problems of environmental exposure to toxic effects of glutaraldehyde in medicine] Leszczyszyn J, et al. **Med Pr** 1997;48(3):335–40 (39 ref.) (Eng. Abstr.) **(Pol)**

ANALYSIS

Fast specific separation and sensitive quantification of bactericidal and sporicidal aldehydes by high-performance liquid chromatography: example of glutaraldehyde determination. Menet MC, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):79–86

[Gas chromatographic determination of the disinfectant agent glutaraldehyde in hospital air] Wliszczak W, et al. **Mikrochim Acta** 1977;(3–4 Pt 2):139–48 **(Ger)**

CHEMISTRY

A mechanism for the decrease in stiffness of bioprosthetic heart valve tissues after cross-linking. Vesely I. **ASAIO J** 1996 Nov-Dec;42(6):993–9

Enamel and dentin bond strength and bonding mechanism to dentin of Gluma CPS to primary teeth. Fritz U, et al. **ASDC J Dent Child** 1997 Jan-Feb;64(1):32–8

Glutaraldehyde as a fixative in bioprostheses and drug delivery matrices. Jayakrishnan A, et al. **Biomaterials** 1996 Mar;17(5):471–84 (169 ref.)

Solvent environment modulates effects of glutaraldehyde crosslinking on tissue-derived biomaterials. Gratzer PF, et al. **J Biomed Mater Res** 1996 Aug;31(4):533–43

Identification of specific calcium-binding noncollagenous proteins associated with glutaraldehyde-preserved bovine pericardium in the rat subdermal model. Gura TA, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):483–95

Glutaraldehyde crosslinking of collagen substrates inhibits degradation in skin substitutes grafted to athymic mice. Harriger MD, et al. **J Biomed Mater Res** 1997 May; 35(2):137–45

Kinetics of in vivo degradation of sepiolite-collagen complexes: effect of glutaraldehyde treatment. Olmo N, et al. **J Biomed Mater Res** 1996 Jan;30(1):77–84

Modification of polystyrenic matrices for the purification of proteins. II. Effect of the degree of glutaraldehyde-poly(vinyl alcohol) crosslinking on various dye ligand chromatography systems. Nash DC, et al. **J Chromatogr A** 1997 Jul 25;776(1):55–63

Properties of glutaraldehyde cross-linked vicilin nano- and microparticles. Ezpeleta I, et al. **J Microencapsul** 1997 Sep-Oct;14(5):557–65

IMMUNOLOGY

Clinical and immunologic evaluation of workers exposed to glutaraldehyde. Curran AD, et al. **Allergy** 1996 Nov; 51(11):826–32

Monoclonal antibodies against glutaraldehyde-conjugated histamine: application to immunocytochemistry. Fujiwara K, et al. **Histochem Cell Biol** 1997 Jan;107(1):39–45

METABOLISM

Effect of applied uniaxial stress on rate and mechanical effects of cross-linking in tissue-derived biomaterials. Chachra D, et al. **Biomaterials** 1996 Oct;17(19):1865–75

Dynamic glutaraldehyde fixation of a porcine aortic valve xenograft. I. Effect of fixation conditions on the final tissue viscoelastic properties. Duncan AC, et al. **Biomaterials** 1996 Oct;17(19):1849–56

PHARMACOKINETICS

Formaldehyde replaces glutaraldehyde in porcine bioprosthetic heart valves [see comments] McClurg WM, et al. **J Heart Valve Dis** 1996 May;5(3):343–7. Comment in: J Heart Valve Dis 1997 May;6(3):327–8.

In response to "Formaldehyde Replaces Glutaraldehyde in Porcine Bioprosthetic Heart Valves" [letter; comment] Moore MA, et al. **J Heart Valve Dis** 1997 May;6(3):327–8 . Comment on: J Heart Valve Dis 1996 May;5(3):343–7.

PHARMACOLOGY

Comparative sensitivities of Sabin and Mahoney poliovirus type 1 prototype strains and two recent isolates to low concentrations of glutaraldehyde. Chambon M, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3199–204

Is the dog a useful model for accelerated calcification study of cardiovascular bioprostheses? Chanda J, et al. **Artif Organs** 1997 May;21(5):391–5

Effect of cross-linking agents on the dynamic mechanical properties of hydrogel blends of poly(acrylic acid)-poly(vinyl alcohol-vinyl acetate). Cauich-Rodriguez JV, et al. **Biomaterials** 1996 Dec;17(23):2259–64

Reversible binding of anthracycline antibiotics to erythrocytes treated with glutaraldehyde. Ataullakhanov FI, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):241–4

Pneumostatic effect of gelatin-resorcinol formaldehyde-glutaraldehyde glue on thermal injury of the lung: an experimental study on rats. Kodama K, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):333–7

Glutaraldehyde-resistant Mycobacterium chelonae from endoscope washer disinfectors. Griffiths PA, et al. **J Appl Microbiol** 1997 Apr;82(4):519–26

Glutaraldehyde retains its disinfectant properties in presence of hydroxypropylmethyl cellulose (HPMC) gel. Matchette LS, et al. **J Biomed Mater Res** 1996 Summer;33(2):101–5

Amide cross-linking: an alternative to glutaraldehyde fixation. Girardot JM, et al. **J Heart Valve Dis** 1996 Sep; 5(5):518–25

Preservation of spatial organization and antigenicity of leukocyte surface molecules by aldehyde fixation: flow cytometry and high-resolution FESEM studies of CD62L, CD11b, and Thy-1. Hasslen SR, et al. **J Histochem Cytochem** 1996 Oct;44(10):1115–22

Fate of gelatin-resorcinol-formaldehyde/glutaraldeyde adhesive on femoral vessel morphology. Walker JD, et al. **J Surg Res** 1997 Jul 15;71(1):73–8

Concentration of glutaraldehyde in fixation of bioprosthetic valves [letter] Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):512–3

Viscoelasticity of dynamically fixed bioprosthetic valves. II. Effect of glutaraldehyde concentration. Duncan AC, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):302–10

[The effect of a disinfecting solution on the technical quality of reversible hydrocolloid impressions] Bochet G, et al. **Schweiz Monatsschr Zahnmed** 1996;106(11):998–1005 **(Fre, Ger)**

[Effect of membranotropic agents on the activity of microsomal oxidoreductases] Tkachenko VN, et al. **Ukr Biokhim Zh** 1996 Jul-Aug;68(4):105–8 (Eng. Abstr.) **(Rus)**

STANDARDS

Evaluation of the efficacy of a 3.2% glutaraldehyde product for disinfection of fibreoptic endoscopes with an automatic machine. Akamatsu T, et al. **J Hosp Infect** 1997 Jan; 35(1):47–57

THERAPEUTIC USE

Experimental gluing of the bronchial stump after pneumonectomy in rats. Wertzel H, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):88–91

The Gluma bonding system: a clinical evaluation of its various components for the treatment of hypersensitive root dentin. Davidson DF, et al. **J Can Dent Assoc** 1997 Jan; 63(1):38–41

Clinical effects of specific immunotheraphy in children with atopic dermatitis. Trofimowicz A, et al. **Rocz Akad Med Bialymst** 1995;40(2):414–22

Experimental gluing of lung parenchyma in rats. Wertzel H, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):83–7

[Effect of immunotherapy on selected immunologic indices in children with pollinosis] Boznański A, et al. **Pediatr Pol** 1996 Jan;71(1):15–8 (Eng. Abstr.) **(Pol)**

TOXICITY

Efficacy of the chitosan posttreatment in calcification prevention of the glutaraldehyde-treated porcine aortic noncoronary cusp implanted in the right ventricular outflow tract in dogs. Kuribayashi R, et al. **Artif Organs** 1996 Jul;20(7):761–6

Glutaraldehyde-containing dentin bonding agents are mutagens in mammalian cells in vitro. Schweikl H, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):284–8

GLUTARALDEHYDE see **GLUTARAL**

GLUTARALDEHYDE-STABILIZED GRAFTS see **BIOPROSTHESIS**

GLUTARATES

Seizures induced by alpha-guanidinoglutaric acid, a nitric oxide synthase inhibitor, are controlled by L-arginine. Habu H, et al. **Biochem Mol Biol Int** 1996 May;39(1):87–95

ANALYSIS

[Gas chromatographic determination of dicyclohexyl ethers of succinic, glutaric and adipic acids in the workplace air] Guglia EB. **Gig Sanit** 1996 Jul-Aug;(4):52–3 **(Rus)**

METABOLISM

Clinical and magnetic resonance imaging features of L-2-hydroxyglutaric acidemia: report of three cases in comparison with Canavan disease. Topçu M, et al. **J Child Neurol** 1996 Sep;11(5):373–7

PHARMACOLOGY

Formation of advanced glycation end (AGE) products in diabetes: prevention by pyruvate and alpha-keto glutarate. Varma SD, et al. **Mol Cell Biochem** 1997 Jun;171(1–2):23–8

URINE

L-2-Hydroxyglutaric aciduria: clinical, biochemical and magnetic resonance imaging in six Portuguese pediatric patients. Barbot C, et al. **Brain Dev** 1997 Jun;19(4):268–73

Combined 3-methylglutaconic and 3-hydroxy-3-methylglutaric aciduria with endocardial fibroelastosis and dilatative cardiomyopathy in male and female siblings with partial deficiency of complex II/III in fibroblasts. Ruesch S, et al. **Enzyme Protein** 1996; 49(5–6):321–9

Iraqi-Jewish kindreds with optic atrophy plus (3-methylglutaconic aciduria type 3) demonstrate linkage disequilibrium with the CTG repeat in the 3' untranslated region of the myotonic dystrophy protein kinase gene. Nystuen A, et al. **Hum Mol Genet** 1997 Apr;6(4):563–9

D-2-hydroxyglutaric aciduria: hypotonia, cortical blindness, seizures, cardiomyopathy, and cylindrical spirals in skeletal muscle [published erratum appears in J Child Neurol 1997 Apr;12(3):227] Baker NS, et al. **J Child Neurol** 1997 Jan; 12(1):31–6

Macrocephaly, subarachnoid fluid collection, and glutaric aciduria type I. Drigo P, et al. **J Child Neurol** 1996 Sep; 11(5):414–7

L-2-Hydroxyglutaric aciduria: neuropathological correlations and first report of severe neurodegenerative disease and neonatal death. Chen E, et al. **J Inherit Metab Dis** 1996;19(3):335–43

Macrocephaly as the presenting feature of L-2-hydroxyglutaric aciduria in a 5-month-old boy. Diogo L, et al. **J Inherit Metab Dis** 1996;19(3):369–70

2-Hydroxyglutaric aciduria: a case report on an infant with the D-isomeric form with review of the literature. Geerts Y, et al. **J Neurol Sci** 1996 Nov;143(1–2):166–9 (20 ref.)

750 MHz 1H NMR spectroscopy characterisation of the

GLUTARATES

complex metabolic pattern of urine from patients with inborn errors of metabolism: 2-hydroxyglutaric aciduria and maple syrup urine disease. Holmes E, et al. **J Pharm Biomed Anal** 1997 Jul;15(11):1647-59

Maternal 3-methylglutaconic aciduria associated with abnormalities in offspring [letter] [see comments] de Koning TG, et al. **Lancet** 1996 Sep 28;348(9031):887-8. Comment in: Lancet 1997 Mar 15;349(9054):776.

3-Methylglutaconic aciduria in pregnancy [letter; comment] Walsh R, et al. **Lancet** 1997 Mar 15;349(9054):776. Comment on: Lancet 1996 Sep 28;348(9031):887-8.

Subdural hemorrhage as an initial sign of glutaric aciduria type 1: a diagnostic pitfall. Woelfle J, et al. **Pediatr Radiol** 1996 Nov;26(11):779-81

GLUTATHIONE

ADMINISTRATION & DOSAGE

Nebulized glutathione induces bronchoconstriction in patients with mild asthma. Marrades RM, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):425-30

Effect of orally administered glutathione on glutathione levels in some organs of rats: role of specific transporters. Favilli F, et al. **Br J Nutr** 1997 Aug;78(2):293-300

Influence of combined use of selenious acid and SH compounds in parenteral preparations. Terada A, et al. **J Trace Elem Med Biol** 1997 Jun;11(2):105-9

Serum deprivation inhibits glutathione depletion-induced death in embryonic cortical neurons: evidence against oxidative stress as a final common mediator of neuronal apoptosis. Ratan RR, et al. **Neurochem Int** 1996 Aug; 29(2):153-7

Intraocular irrigating solutions [letter; comment] Peyman GA. **Ophthalmology** 1995 Oct;102(10):1413-4. Comment on: Ophthalmology 1995 Feb;102(2):291-6.

Role of transchelation in the uptake of 99mTc-MAb in liver and kidney. Xue LY, et al. **Q J Nucl Med** 1997 Mar; 41(1):10-7

ANALOGS & DERIVATIVES

An endogenous ATP-sensitive glutathione S-conjugate efflux mechanism in Xenopus laevis oocytes. Ballatori N, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1156-62

Nitric oxide activates chloride currents in human lung epithelial cells. Kamosinska B, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1098-104

Cell cycle effects of nitric oxide on vascular smooth muscle cells. Sarkar R, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1810-8

Validated high-performance liquid chromatography-electrochemical method for determination of glutathione and glutathione disulfide in small tissue samples. Lakritz J, et al. **Anal Biochem** 1997 Apr 5;247(1):63-8

Scintigraphic visualization of ocular melanoma with Tc-99m glutathione. Tutuş A, et al. **Ann Nucl Med** 1997 May; 11(2):143-6

Activity of TER286 against human tumor colony-forming units. Izbicka E, et al. **Anticancer Drugs** 1997 Apr; 8(4):345-8

Glutathione derivatives enhance adriamycin cytotoxicity in a human lung adenocarcinoma cell line. Nakanishi Y, et al. **Anticancer Res** 1997 May-Jun;17(3C):2129-34

DNA damage, gadd153 expression, and cytotoxicity in plateau-phase renal proximal tubular epithelial cells treated with a quinol thioether. Jeong JK, et al. **Arch Biochem Biophys** 1997 May 15;341(2):300-8

Multiple routes and regulation by tyrosine phosphorylation characterize the ATP-dependent transport of 2,4-dinitrophenyl S-glutathione in inside-out vesicles from human erythrocytes. Saxena M, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):173-82

Isolation and purification of glutathionyl-spermidine and trypanothione from Entamoeba histolytica. Ondarza RN, et al. **Arch Med Res** 1997;28 Spec No:73-5

Synthesis and activity of the glutathione analogue gamma-(L-gamma-oxaglutamyl)-L-cysteinyl-glycine. Calcagni A, et al. **Arch Pharm (Weinheim)** 1996 Nov; 329(11):498-502

Phosphono analogues of glutathione as new inhibitors of glutathione S-transferases. Kunze T. **Arch Pharm (Weinheim)** 1996 Nov;329(11):503-9

Glutathione and glutathione-related enzyme activities of male and female rat hepatocytes under various culture conditions. Lii CK, et al. **Arch Toxicol** 1996;70(12):822-9

Inhibition of protein tyrosine kinase by 5-S-GAD, a novel antibacterial substance from an insect. Hijikata M, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):423-6

Stable transfection of LLC-PK1 cells with human microsomal glutathione S-transferase gene increases haloalkene glutathione S-conjugate formation and cytotoxicity. Otieno MA, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):481-4

S-Nitrosoglutathione as a substrate for gamma-glutamyl transpeptidase. Hogg N, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):477-81

Promotion of proliferation of murine BALB/C3T3 fibroblasts mediated by nitric oxide at lower concentrations. Du M, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):625-31

Two pathways of the nitric oxide-induced cytotoxycal action. Turpaev KT, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):1025-33

Subunit specificity and organ distribution of glutathione transferase-catalysed S-nitrosoglutathione formation from alkyl nitrites in the rat. Akerboom TP, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):117-20

Inhibition of S-nitrosation of reduced glutathione in aerobic solutions of nitric oxide by phosphate and other inorganic anions. DeMaster EG, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):581-5

Enzymic denitrosation of 1,3-dimethyl-2-cyano-1-nitrosoguanidine in rat liver cytosol and the fate of the immediate product S-nitrosoglutathione. Jensen DE, et al. **Biochem Pharmacol** 1997 May 9;53(9):1279-95

Inhibition of the efflux of glutathione S-conjugates by plant polyphenols. Zhang K, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1631-8

Isocyanate inactivation of yeast glutathione reductase & its modulation by oxidised glutathione and NADPH. Baylor KJ, et al. **Biochem Soc Trans** 1996 May;24(2):325S

Structure and in vitro substrate specificity of the murine multidrug resistance-associated protein. Paul S, et al. **Biochemistry** 1996 Oct 22;35(42):13647-55

A new metabolite of propargylglycine, gamma-glutamylpropargylcylglycine, in liver of D,L-propargylglycine-administered rats. Ohta J, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2-3):240-6

Peroxynitrite inhibits glutathione S-conjugate transport. Soszyński M, et al. **Biochim Biophys Acta** 1997 Apr 3; 1325(1):135-41

Protective effect of S-(1,2-dicarboxyethyl)glutathione, an intrinsic tripeptide in liver, heart and lens, and its esters on acetaminophen-induced hepatotoxicity in rats. Sakaue T, et al. **Biol Pharm Bull** 1996 Sep;19(9):1216-9

Protective effects of GSH, vitamin E, and selenium on lipid peroxidation in cadmium-fed rats. Rana SV, et al. **Biol Trace Elem Res** 1996 Feb;51(2):161-8

Role of a copper (I)-dependent enzyme in the anti-platelet action of S-nitrosoglutathione. Gordge MP, et al. **Br J Pharmacol** 1996 Oct;119(3):533-8

The mechanism of cardioprotection by S-nitrosoglutathione monoethyl ester in rat isolated heart during cardioplegic ischaemic arrest. Konorev EA, et al. **Br J Pharmacol** 1996 Oct;119(3):511-8

Neocuproine, a selective Cu(I) chelator, and the relaxation of rat vascular smooth muscle by S-nitrosothiols. Al-Sa'doni HH, et al. **Br J Pharmacol** 1997 Jul; 121(6):1047-50

Endogenous Alzheimer's brain factor and oxidized glutathione inhibit antagonist binding to the muscarinic receptor. Frey WH 2nd, et al. **Brain Res** 1996 Apr 1; 714(1-2):87-94

Formation, intracellular distribution and efflux of glutathione-bimane conjugates in drug-sensitive and -resistant MCF-7 cells. Millis KK, et al. **Cancer Chemother Pharmacol** 1997;40(2):101-11

Reduced glutathione and S-acetylglutathione as selective apoptosis-inducing agents in cancer therapy [published erratum appears in Cancer Lett 1997 May 19;115(2):265] Donnerstag B, et al. **Cancer Lett** 1996 Dec 20; 110(1-2):63-70

Nitric oxide induces conformational and functional modifications of wild-type p53 tumor suppressor protein. Calmels S, et al. **Cancer Res** 1997 Aug 15;57(16):3365-9

The dual role of S-nitrosoglutathione (GSNO) during thymocyte apoptosis. Sandau K, et al. **Cell Signal** 1996 Mar; 8(3):173-7

Enantioselective depletion of mitochondrial glutathione concentrations by (S)- and (R)-3-hydroxy-4-pentenoate. Hashmi M, et al. **Chem Res Toxicol** 1996 Mar;9(2):361-4

Effects of intracerebroventricular administration of 5-(glutathion-S-yl)-alpha-methyldopamine on brain dopamine, serotonin, and norepinephrine concentrations in male Sprague-Dawley rats. Miller RT, et al. **Chem Res Toxicol** 1996 Mar;9(2):457-65

Effect of glucose-6-phosphate dehydrogenase deficiency on reduced and oxidized glutathione and lipid peroxide levels in the blood of African-Americans [letter] Jain SK, et al. **Clin Chim Acta** 1996 Sep 30;253(1-2):181-3

Glutathione and trypanothione in several strains of Trypanosoma cruzi: effect of drugs. Repetto Y, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):281-5

S-(1,2- dicarboxyethyl)glutathione and glutathione in lens and liver of napthalene-treated rabbits. Takemura M, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):85-90

2,5-Bis-(glutathion-S-yl)-alpha-methyldopamine, a putative metabolite of (+/-)-3,4-methylenedioxyamphetamine, decreases brain serotonin concentrations. Miller RT, et al. **Eur J Pharmacol** 1997 Apr 4;323(2-3):173-80

Hypersensitivity of ataxia-telangiectasia fibroblasts to a nitric oxide donor. Green MH, et al. **Free Radic Biol Med** 1997; 22(1-2):343-7

Blood glutathione as an index of radiation-induced oxidative stress in mice and humans. Navarro J, et al. **Free Radic Biol Med** 1997;22(7):1203-9

Role of ascorbate and protein thiols in the release of nitric oxide from S-nitroso-albumin and S-nitroso-glutathione in human plasma. Scorza G, et al. **Free Radic Biol Med** 1997;22(4):633-42

A comparison between different methods for the determination of reduced and oxidized glutathione in mammalian tissues. Floreani M, et al. **Free Radic Res** 1997 May;26(5):449-55

Sepsis-associated jaundice. Moseley RH. **Hepatology** 1996 Oct;24(4):969-70

Nitric oxide donors stimulate bile flow and glutathione disulfide excretion independent of guanosine 3',5'-cyclic [corrected] monophosphate in the isolated perfused rat liver [published erratum appears in Hepatology 1997 Apr;25(4):1039] Trauner M, et al. **Hepatology** 1997 Feb; 25(2):263-9

Intracellular glutathione in human peritoneal mesothelial cells exposed in vitro to dialysis fluid. Breborowicz A, et al. **Int J Artif Organs** 1996 May;19(5):268-75

Release of glutathione from erythrocytes and other markers of oxidative stress in carbon monoxide poisoning. Thom SR, et al. **J Appl Physiol** 1997 May;82(5):1424-32

Specifically targeted modification of human aldose reductase by physiological disulfides. Cappiello M, et al. **J Biol Chem** 1996 Dec 27;271(52):33539-44

Binding of the aflatoxin-glutathione conjugate to mouse glutathione S-transferase A3-3 is saturated at only one ligand per dimer. McHugh TE, et al. **J Biol Chem** 1996 Nov 1;271(44):27470-4

Glutathione conjugates recognize the Rossmann fold of glyceraldehyde-3-phosphate dehydrogenase. Puder M, et al. **J Biol Chem** 1997 Apr 18;272(16):10936-40

The inhibition of cytochrome c oxidase by nitric oxide using S-nitrosoglutathione. Torres J, et al. **J Inorg Biochem** 1997 May 15;66(3):207-12

Identification of multiple target sites for a glutathione conjugate on glutathione-S-transferase by matrix-assisted laser desorption/ionization mass spectrometry. Jespersen S, et al. **J Mass Spectrom** 1996 Jan;31(1):101-7

Nitric oxide donors: effects of S-nitrosoglutathione and 4-phenyl-3-furoxancarbonitrile on ocular blood flow and retinal function recovery. Liu SX, et al. **J Ocul Pharmacol Ther** 1997 Apr;13(2):105-14

Comparison of HPLC and enzymatic recycling assays for the measurement of oxidized glutathione in rat brain. Sian J, et al. **J Pharm Pharmacol** 1997 Mar;49(3):332-5

Kinetic analysis of the primary active transport of conjugated metabolites across the bile canalicular membrane: comparative study of S-(2,4-dinitrophenyl)-glutathione and 6-hydroxy-5,7-dimethyl-2-methylamino-4-(3-pyridylmethyl)benzothiazole glucuronide. Niinuma K, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):866-72

Lipopolysaccharide-mediated hepatic glutathione depletion and progressive mitochondrial damage in mice: protective effect of glutathione monoethyl ester. Uedono Y, et al. **J Surg Res** 1997 Jun;70(1):49-54

Reaction of human hemoglobin toward the alkylating agent S-(2-chloroethyl)glutathione. Erve JC, et al. **J Toxicol Environ Health** 1996 Oct 11;49(2):127-43

Effect of age on alteration of glutathione metabolism following chronic cigarette smoke inhalation in mice. Teramoto S, et al. **Lung** 1996;174(2):119-26

Polyol pathway activation and glutathione redox status in non-insulin-dependent diabetic patients. Bravi MC, et al. **Metabolism** 1997 Oct;46(10):1194-8

S-nitrosothiol detection. Welch GN, et al. **Methods Enzymol** 1996;268:293-8

Characterization of the peptide substrate specificity of glutathionylspermidine synthetase from Crithidia fasciculata. De Craecker S, et al. **Mol Biochem Parasitol** 1997 Jan;84(1):25-32

Reduction of dehydroascorbate by trypanothione. Krauth-Siegel RL, et al. **Mol Biochem Parasitol** 1996 Oct 1;80(2):203-8

Effects of nifurtimox and benznidazole upon glutathione and trypanothione content in epimastigote, trypomastigote and amastigote forms of Trypanosoma cruzi. Maya JD, et al. **Mol Biochem Parasitol** 1997 May;86(1):101-6

Quinone thioether-mediated DNA damage, growth arrest, and gadd153 expression in renal proximal tubular epithelial cells. Jeong JK, et al. **Mol Pharmacol** 1996 Sep;50(3):592-8

Modulation of the clastogenic activity of bleomycin by reduced-glutathione, glutathione-ester and buthionine sulphoximine. Chattopadhyay A, et al. **Mutagenesis** 1997 Jul;12(4):221-5

Nitric oxide precursor arginine and S-nitrosoglutathione in synaptic and glial function. Do KQ, et al. **Neurochem Int** 1996 Sep;29(3):213-24 (94 ref.)

A new pathway for vacuolar cadmium sequestration in Saccharomyces cerevisiae: YCF1-catalyzed transport of bis(glutathionato)cadmium. Li ZS, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):42-7

Trypanothione overproduction and resistance to antimonials and arsenicals in Leishmania. Mukhopadhyay R, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10383-7

The chemistry of the S-nitrosoglutathione/glutathione system. Singh SP, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14428-33

Formation of GSH-derivatives as a pathway for inactive intermediates in vinylidene chloride-treated rats. Cossec B, et al. **Toxicol Lett** 1996 Dec 31;89(3):223-9

Effects of fraxetin on glutathione redox status. Martín-Aragón S, et al. **Z Naturforsch [C]** 1997 Jan-Feb; 52(1-2):55-9

ANALYSIS

Validated high-performance liquid chromatography-electrochemical method for

determination of glutathione and glutathione disulfide in small tissue samples. Lakritz J, et al. **Anal Biochem** 1997 Apr 5;247(1):63–8

Fluorometric detection of biological S–nitrosothiols. Park JK, et al. **Anal Biochem** 1997 Jun 15;249(1):61–6

Age–related changes in lipid peroxidation and antioxidant defense in Fischer 344 rats. Bagchi M, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:449–52

Antioxidant levels in the nasal mucosa of patients with chronic sinusitis and healthy controls. Westerveld GJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb; 123(2):201–4

Glutathione depletion in the yeast Saccharomyces cerevisiae. Fortuniak A, et al. **Biochem Mol Biol Int** 1996 Apr; 38(5):901–10

Effect of diethylmaleate on liver extracellular glutathione levels before and after global liver ischemia in anesthetized rats. Yang CS, et al. **Biochem Pharmacol** 1997 Feb 7; 53(3):357–61

A microbiological assay for the quantitative determination of glutathione. Schmidt M, et al. **Biotechniques** 1996 Nov; 21(5):881, 884–6

Seasonal– and temperature–dependent variation in CNS ascorbate and glutathione levels in anoxia–tolerant turtles. Pérez–Pinzón MA, et al. **Brain Res** 1995 Dec 24; 705(1–2):45–52

Glutathione content but not gamma glutamyl cysteine synthetase mRNA expression predicts cisplatin resistance in head and neck cancer cell lines. Newkirk K, et al. **Cancer Chemother Pharmacol** 1997;40(1):75–80

Enantioselective depletion of mitochondrial glutathione concentrations by (S)– and (R)–3–hydroxy–4–pentenoate. Hashmi M, et al. **Chem Res Toxicol** 1996 Mar;9(2):361–4

Identification in rat bile of glutathione conjugates of fluoromethyl 2,2–difluoro–1–(trifluoromethyl)vinyl ether, a nephrotoxic degradate of the anesthetic agent sevoflurane. Jin L, et al. **Chem Res Toxicol** 1996 Mar; 9(2):555–61

Bioactivation of a toxic metabolite of valproic acid, (E)–2–propyl–2,4–pentadienoic acid, via glucuronidation. LC/MS/MS characterization of the GSH–glucuronide diconjugates. Tang W, et al. **Chem Res Toxicol** 1996 Mar; 9(2):517–26

Alveolar fluid glutathione decreases in asymptomatic HIV–seropositive subjects over time. Pacht ER, et al. **Chest** 1997 Sep;112(3):785–8

Skeletal muscle glutathione is depleted in critically ill patients. Hammarqvist F, et al. **Crit Care Med** 1997 Jan; 25(1):78–84

Analysis of tumor thiol concentrations: comparison of flow cytometric with chemical and biochemical techniques. Horan AD, et al. **Cytometry** 1997 Sep 1;29(1):76–82

S–(1,2– dicarboxyethyl)glutathione and glutathione in lens and liver of napthalene–treated rabbits. Takemura M, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):85–90

A comparison of the effects of ifosfamide vs. mafosfamide treatment on intracellular glutathione levels and immunological functions of immunocompetent lymphocyte subsets. Botzler C, et al. **Exp Hematol** 1997 Apr; 25(4):338–44

Glutathione, glutathione S–transferase alpha and pi, and aldehyde dehydrogenase content in relationship to drug resistance in ovarian cancer. Tanner B, et al. **Gynecol Oncol** 1997 Apr;65(1):54–62

Determination of glutathione, cysteine and N–acetylcysteine in rabbit eye tissues using high–performance liquid chromatography and post–column derivatization with 5,5'–dithiobis(2–nitrobenzoic acid). Nozal MJ, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):347–53

Simultaneous quantitation of oxidised and reduced glutathione in equine biological fluids by reversed–phase high–performance liquid chromatography using electrochemical detection. Smith NC, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):35–41

Characterization of glutathione conjugates of pyrrolylated amino acids and peptides by liquid chromatography–mass spectrometry and tandem mass spectrometry with electrospray ionization. Zhu M, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):187–96

Different efficacy of iodoacetic acid and N–ethylmaleimide in high–performance liquid chromatographic measurement of liver glutathione. Santori G, et al. **J Chromatogr B Biomed Sci Appl** 1997 Aug 1;695(2):427–33

Cysteine and glutathione in the liver of patients with primary biliary cirrhosis [letter; comment] Farinati F, et al. **J Hepatol** 1996 Jul;25(1):123. Comment on: J Hepatol 1995 May;22(5):551–60.

Technetium–99m–meso–HMPAO as a potential agent to image cerebral glutathione content. Sasaki T, et al. **J Nucl Med** 1997 Jul;38(7):1125–9

Influence of selenium on glutathione and some associated enzymes in rats with mammary tumor induced by 7,12–dimethylbenz(a)anthracene. Chidambaram N, et al. **Mol Cell Biochem** 1996 Mar 23;156(2):101–7

The glutathione level of retinal Müller glial cells is dependent on the high–affinity sodium–dependent uptake of glutamate. Reichelt W, et al. **Neuroscience** 1997 Apr; 77(4):1213–24

Effect of Santoquin and oxidized fat on liver and intestinal glutathione in broilers. Wang SY, et al. **Poult Sci** 1997 Jul; 76(7):961–7

Catalytic metal ions and the loss of reduced glutathione from University of Wisconsin preservation solution. Evans PJ, et al. **Transplantation** 1996 Oct 27;62(8):1046–9

[Glutathione levels in human colon cancer cell line M7609 following culture in a low sulfur amino acid medium and its sensitivity to various anticancer drugs] Saito T, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):823–7 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Mitochondrial lipid peroxides and antioxidant enzymes in the liver following phorone–induced glutathione depletion. Mehmetçik G, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jun;96(3):353–6

BIOSYNTHESIS

High–glutathione containing yeast Saccharomyces cerevisiae: optimization of production. Udeh KO, et al. **Acta Microbiol Pol** 1997;46(1):105–14

Elevated hepatic gamma–glutamylcysteine synthetase activity and abnormal sulfate levels in liver and muscle tissue may explain abnormal cysteine and glutathione levels in SIV–infected rhesus macaques. Gross A, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20;12(17):1639–41

Interleukin–1–induced nitric oxide production modulates glutathione synthesis in cultured rat hepatocytes. Kuo PC, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C851–62

Enteral glutamate is the preferential source for mucosal glutathione synthesis in fed piglets. Reeds PJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E408–15

Adenosine–mediated inhibition of glutathione synthesis in rat isolated hepatocytes. Atmaca M, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1423–8

Lipoic acid increases de novo synthesis of cellular glutathione by improving cystine utilization. Han D, et al. **Biofactors** 1997;6(3):321–38

Stage–specific requirement of cysteine during in vitro maturation of porcine oocytes for glutathione synthesis associated with male pronuclear formation. Sawai K, et al. **Biol Reprod** 1997 Jul;57(1):1–6

Upregulation of intracellular glutathione by fibroblast–derived factor(s): enhanced survival of activated T cells in the presence of low Bcl–2. Hyde H, et al. **Blood** 1997 Apr 1;89(7):2453–60

Menadione–resistant Chinese hamster ovary cells have an increased capacity for glutathione synthesis. Vallis KA, et al. **Br J Cancer** 1997;76(7):870–7

Cancer chemopreventive potential of sulforamate, a novel analogue of sulforaphane that induces phase 2 drug–metabolizing enzymes. Gerhäuser C, et al. **Cancer Res** 1997 Jan 15;57(2):272–8

Dietary sulphur amino acid adequacy influences glutathione synthesis and glutathione–dependent enzymes during the inflammatory response to endotoxin and tumour necrosis factor–alpha in rats. Hunter EA, et al. **Clin Sci (Colch)** 1997 Mar;92(3):297–305

Low de novo glutathione synthesis from circulating sulfur amino acids in the lens epithelium. Mackic JB, et al. **Exp Eye Res** 1997 Apr;64(4):615–26

Increased stress parameter synthesis in the yeast Saccharomyces cerevisiae after treatment with 4–hydroxy–2–nonenal. Wonisch W, et al. **FEBS Lett** 1997 Mar 17;405(1):11–5

apd1+, a gene required for red pigment formation in ade6 mutants of Schizosaccharomyces pombe, encodes an enzyme required for glutathione biosynthesis: a role for glutathione and a glutathione–conjugate pump. Chaudhuri B, et al. **Genetics** 1997 Jan;145(1):75–83

Use of dipeptides for the synthesis of glutathione by astroglia–rich primary cultures. Dringen R, et al. **J Neurochem** 1997 Aug;69(2):868–74

Oral L–2–oxo–4–thiazolidine reduces bacterial translocation after radiation in the Fischer rat. Blair SL, et al. **J Surg Res** 1996 Oct;65(2):165–8

Cholestatic liver injury down–regulates hepatic glutathione synthesis. Neuschwander–Tetri BA, et al. **J Surg Res** 1996 Jul 1;63(2):447–51

The correlation of membranous glycoprotein–gp–170, cytoplasmic glutathione and glucose–6–phosphate dehydrogenase levels with multidrug resistance in transitional cell carcinoma cell lines of the urinary tract. Yu DS, et al. **J Urol** 1997 Feb;157(2):727–31

Stimulation of glutathione synthesis of in vitro matured bovine oocytes and its effect on embryo development and freezability. de Matos DG, et al. **Mol Reprod Dev** 1996 Dec;45(4):451–7

Different preferences in the utilization of amino acids for glutathione synthesis in cultured neurons and astroglial cells derived from rat brain. Kranich O, et al. **Neurosci Lett** 1996 Nov 29;219(3):211–4

Glutathione synthesis in the exocrine pancreas. Neuschwander–Tetri BA, et al. **Pancreas** 1997 May; 14(4):342–9

Localization by in situ hybridization of gamma–glutamylcysteine synthetase mRNA expression in rat kidney following acute methylmercury treatment. Li S, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):59–67

Hepatic glutathione biosynthetic capacity in hyperthyroid rats. Fernández V, et al. **Toxicol Lett** 1996 Dec 16; 89(2):85–9

BLOOD

The effect of iron supplementation on GSH levels, GSH–Px, and SOD activities of erythrocytes in L–thyroxine administration. Seymen O, et al. **Acta Med Okayama** 1997 Jun;51(3):129–33

Glutathione status and reactive oxygen generation in tissues of young and old exercised rats. Ohkuwa T, et al. **Acta Physiol Scand** 1997 Mar;159(3):237–44

Low whole blood and erythrocyte levels of glutathione in hemodialysis and peritoneal dialysis patients. Ross EA, et al. **Am J Kidney Dis** 1997 Oct;30(4):489–94

K(+)–Cl– cotransport and volume regulation in the light and the dense fraction of high–K+ dog red blood cells. Fujise H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R991–8

Enhanced NO production during Mg deficiency and its role in mediating red blood cell glutathione loss. Mak IT, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C385–90

Effect of thiol status on nitric oxide metabolism in the circulation. Minamiyama Y, et al. **Arch Biochem Biophys** 1997 May 1;341(1):186–92

Erythrocyte glutathione determination in the diagnosis of glucose–6–phosphate dehydrogenase deficiency. Bozzi A, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):561–9

Effect of membrane–permeable sulfhydryl reagents and depletion of glutathione on calcium mobilisation in human platelets. van Gorp RM, et al. **Biochem Pharmacol** 1997 May 15;53(10):1533–42

Markedly disturbed glutathione redox status in CD45RA+CD4+ lymphocytes in human immunodeficiency virus type 1 infection is associated with selective depletion of this lymphocyte subset. Aukrust P, et al. **Blood** 1996 Oct 1;88(7):2626–33

Effect of ifosfamide on intracellular glutathione levels in peripheral blood lymphocytes and its correlation with therapeutic response in patients with advanced ovarian cancer. Malik IA, et al. **Cancer Chemother Pharmacol** 1997; 39(6):561–5

Relationship between high incidence of adverse dapsone reactions and slow acetylate phenotype or low plasma/lymphocyte glutathione level. Guo R, et al. **Chin Med J (Engl)** 1996 Dec;109(12):933–6

The role of the oxidative state of glutathione and glutathione–related enzymes in anemia of hemodialysis patients. Paşaoğlu H, et al. **Clin Biochem** 1996 Dec; 29(6):567–72

Evaluation of reference values for erythrocyte glutathione. Cevat Inal T, et al. **Clin Chim Acta** 1996 Dec 30; 256(2):189–96

Effect of glucose–6–phosphate dehydrogenase deficiency on reduced and oxidized glutathione and lipid peroxide levels in the blood of African–Americans [letter] Jain SK, et al. **Clin Chim Acta** 1996 Sep 30;253(1–2):181–3

Glutathione and cysteine in HIV–infected hemophiliacs. López Galera RM, et al. **Clin Chim Acta** 1996 Oct 15; 254(1):63–72

Changes of lipid peroxides and antioxidative factors levels in blood of patients treated with ACE inhibitors. Djordjević VB, et al. **Clin Nephrol** 1997 Apr;47(4):243–7

Negative association between erythrocyte reduced glutathione concentration and diabetic complications. Thornalley PJ, et al. **Clin Sci (Colch)** 1996 Nov;91(5):575–82

Asymmetric hemoglobins, their thiol content, and blood glutathione of the scalloped hammerhead shark, Sphyrna lewini. Dafré AL, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Mar; 116(3):323–31

Increased resting and exercise–induced oxidative stress in young IDDM men. Laaksonen DE, et al. **Diabetes Care** 1996 Jun;19(6):569–74

Direct determination of glutathione in human blood by micellar electrokinetic chromatography: simultaneous determination of lipoamide and lipoic acid. Pañak KC, et al. **Electrophoresis** 1996 Oct;17(10):1613–6

Identification of the multidrug–resistance protein (MRP) as the glutathione–S–conjugate export pump of erythrocytes. Pulaski L, et al. **Eur J Biochem** 1996 Oct 15;241(2):644–8

Serum selenium, plasma glutathione (GSH) and erythrocyte glutathione peroxidase (GSH–Px)–levels in asymptomatic versus symptomatic human immunodeficiency virus–1 (HIV–1)–infection. Look MP, et al. **Eur J Clin Nutr** 1997 Apr;51(4):266–72

Frequency of HPV infection and GSH levels in plasma of women with cervical dysplasia. Kwaśniewska A, et al. **Eur J Gynaecol Oncol** 1997;18(3):196–9

Heredity of red blood cells with high K and low glutathione (HK/LG) and high K and high glutathione (HK/HG) in a family of Japanese Shiba Dogs. Fujise H, et al. **Exp Anim** 1997 Jan;46(1):41–6

Blood glutathione as an index of radiation–induced oxidative stress in mice and humans. Navarro J, et al. **Free Radic Biol Med** 1997;22(7):1203–9

Regulation of cellular thiols in human lymphocytes by alpha–lipoic acid: a flow cytometric analysis. Sen CK, et al. **Free Radic Biol Med** 1997;22(7):1241–57

Role of leucocytes in free radical production during myocardial revascularisation. De Vecchi E, et al. **Heart** 1997 May;77(5):449–55

Balneotherapy and platelet glutathione metabolism in type II diabetic patients. Ohtsuka Y, et al. **Int J Biometeorol** 1996 Sep;39(3):156–9

Blood glutathione status following distance running. Dufaux B, et al. **Int J Sports Med** 1997 Feb;18(2):89–93

Exercise causes blood glutathione oxidation in chronic obstructive pulmonary disease: prevention by O2 therapy. Viña J, et al. **J Appl Physiol** 1996 Nov;81(5):2198–202

Simultaneous quantitation of oxidised and reduced glutathione in equine biological fluids by reversed–phase high–performance liquid chromatography using electrochemical detection. Smith NC, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):35–41

Effect of ageing on human plasma glutathione concentrations as determined by high–performance liquid chromatography with fluorimetric detection. Yang CS, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):23–30

Determination of reduced and oxidized glutathione in erythrocytes by high–performance liquid chromatography with ultraviolet absorbance detection. Yoshida T. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):157–64

Glutamine–enriched total parenteral nutrition enhances plasma glutathione in the resting state. Denno R, et al. **J Surg Res** 1996 Feb 15;61(1):35–8

Cadmium–induced lipid peroxidation and the antioxidant system in rat erythrocytes: the role of antioxidants. Sarkar S, et al. **J Trace Elem Med Biol** 1997 Apr;11(1):8–13

Reduced glutathione concentration in erythrocytes of patients with acute and chronic viral hepatitis. Swiętek K, et al. **J Viral Hepat** 1997 Mar;4(2):139–41

Polyol pathway activation and glutathione redox status in non–insulin–dependent diabetic patients. Bravi MC, et al. **Metabolism** 1997 Oct;46(10):1194–8

Glutathione peroxidase, reduced glutathione, superoxide dismutase and catalase in red cells of patients with hairy cell leukemia. Arruda VR, et al. **Neoplasma** 1996; 43(2):99–102

Lipoperoxidation and glutathione–dependent enzymes in uremic anemia of CAPD patients [letter] Galli F, et al. **Nephron** 1997;76(3):363

Increased levels of lipid peroxidation products malondialdehyde and 4–hydroxynonenal after perinatal hypoxia. Schmidt H, et al. **Pediatr Res** 1996 Jul;40(1):15–20

Quitting smoking raises whole blood glutathione. Lane JD, et al. **Physiol Behav** 1996 Nov;60(5):1379–81

Effect of alcohol abuse and glutathione administration on the circulating levels of glutathione and on antipyrine metabolism in patients with alcoholic liver cirrhosis. Loguercio C, et al. **Scand J Clin Lab Invest** 1996 Aug; 56(5):441–7

Depletion of glutathione by benzo(a)pyrene metabolites, ionomycin, thapsigargin, and phorbol myristate in human peripheral blood mononuclear cells. Romero DL, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):62–9

Elevated intracellular glutathione levels in CD4+ T cells of BB rats. Groen H, et al. **Transplant Proc** 1997 May; 29(3):1679–80

Effect of acute Trypanosoma vivax infection on cattle erythrocyte glutathione and susceptibility to in vitro peroxidation. Igbokwe IO, et al. **Vet Parasitol** 1996 Jun; 63(3–4):215–24

[Function and clinical significance of erythrocyte reduced glutathione] Tsushima H, et al. **Nippon Rinsho** 1996 Sep; 54(9):2336–40 (19 ref.) **(Jpn)**

[Frequency of HPV infection and level of glutathione in serum of women with cervix dysplasia] Kwaśniewska A, et al. **Med Dosw Mikrobiol** 1995;47(3–4):213–8 (Eng. Abstr.) **(Pol)**

[Effect of various perfusion temperature regimens in heart surgery with extracorporeal circulation on glutathione levels and activity of enzymes of glutathione metabolism in erythrocytes] Korotkina RN, et al. **Patol Fiziol Eksp Ter** 1997 Jan–Mar;(1):8–10 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Synthesis of Cr(IV)–GSH, its identification and its free hydroxyl radical generation: a model compound for Cr(VI) carcinogenicity. Liu KJ, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):54–8

CHEMISTRY

Inhibition of peroxynitrite–mediated oxidation of glutathione by carbon dioxide. Zhang H, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):183–9

Characteristics of glutathione–capped ZnS nanocrystallites. Bae W, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):16–23

Molecular modelling of glutathione–isocyanate interaction. Baylor KJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):48S

Glutathione–dependent pathways of refolding of RNase T1 by oxidation and disulfide isomerization: catalysis by protein disulfide isomerase. Ruoppolo M, et al. **Biochemistry** 1996 Oct 22;35(42):13636–46

Spectral and interferometrical study of the interaction of haemin with glutathione. Sahini VE, et al. **Biophys Chem** 1996 Feb 8;58(3):245–53

Stereoselective conjugation of prostaglandin A2 and prostaglandin J2 with glutathione, catalyzed by the human glutathione S–transferases A1–1, A2–2, M1a–1a, and P1–1. Bogaards JJ, et al. **Chem Res Toxicol** 1997 Mar;10(3):310–7

Formation, solvolysis, and transcarbamoylation reactions of bis(S–glutathionyl) adducts of 2,4– and 2,6–diisocyanatotoluene. Day BW, et al. **Chem Res Toxicol** 1997 Apr;10(4):424–31

The formation of constants of mercury(II)––glutathione complexes. Oram PD, et al. **Chem Res Toxicol** 1996 Jun; 9(4):709–12

Structure–activity relationships for the glutathione conjugation of 2–substituted 1–chloro–4–nitrobenzenes by rat glutathione S–transferase 4–4. van der Aar EM, et al. **Chem Res Toxicol** 1996 Mar;9(2):527–34

A comparison between different methods for the determination of reduced and oxidized glutathione in mammalian tissues. Floreani M, et al. **Free Radic Res** 1997 May;26(5):449–55

Time–resolved EPR studies on the reaction rates of peroxyl radicals of poly(acrylic acid) and of calf thymus DNA with glutathione. Re–examination of a rate constant for DNA. Hildenbrand K, et al. **Int J Radiat Biol** 1997 Apr; 71(4):377–85

Superoxide modulates the oxidation and nitrosation of thiols by nitric oxide–derived reactive intermediates. Chemical aspects involved in the balance between oxidative and nitrosative stress. Wink DA, et al. **J Biol Chem** 1997 Apr 25;272(17):11147–51

Role of amino thiols in luminol chemiluminescence coupled with copper(II)–catalysed oxidation of cysteine and glutathione. Kamidate T, et al. **J Biolumin Chemilumin** 1996 May–Jun;11(3):123–9

Catalytic role of the alpha–carboxylate of the Glu residue of glutathione in glutathione S–transferases. Zheng YJ, et al. **J Biomol Struct Dyn** 1996 Oct;14(2):231–3

Glutathione depletion in rat brain does not cause nigrostriatal pathway degeneration. Toffa S, et al. **J Neural Transm** 1997;104(1):67–75

Short term storage of samples containing monoamines: ascorbic acid and glutathione give better protection against degradation than perchloric acid. Boix F, et al. **J Neurosci Methods** 1997 Jul 18;75(1):69–73

Immunochemical assay for recognition of 2–S–glutathionyl acetate, a glutathione conjugate derived from 1,1–dichloroethylene–epoxide. Forkert PG, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1422–30

Oxygen is not required for degradation of DNA by glutathione and Cu(II). Jain A, et al. **Mutat Res** 1996 Oct 25;357(1–2):83–8

The chemistry of the S–nitrosoglutathione/glutathione system. Singh SP, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14428–33

On the reaction mechanism of class Pi glutathione S–transferase. Orozco M, et al. **Proteins** 1997 Aug; 28(4):530–42

DEFICIENCY

Increased cisplatin sensitivity of human fibroblasts from a subject with inherent glutathione deficiency. Hansson J, et al. **Acta Oncol** 1996;35(6):683–90

Effect of glutathione depletion on electrophysiological characteristics of guinea–pig ventricles. Pacher P, et al. **Acta Physiol Hung** 1996;84(3):319–21

Hepatic glutathione deficiency in chronic hepatitis C: quantitative evaluation in patients who are HIV positive and HIV negative and correlations with plasmatic and lymphocytic concentrations and with the activity of the liver disease. Barbaro G, et al. **Am J Gastroenterol** 1996 Dec;91(12):2569–73

Edema and intrapancreatic trypsinogen activation precede glutathione depletion during caerulein pancreatitis. Grady T, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):G20–6

Hepatic oxidant injury and glutathione depletion during total parenteral nutrition in weanling rats. Sokol RJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G691–700

Increased transcription of the regulatory subunit of gamma–glutamylcysteine synthetase in rat lung epithelial L2 cells exposed to oxidative stress or glutathione depletion. Tian L, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):126–33

Glutathione depletion–induced thymidylate insufficiency for DNA repair synthesis. Lertratanangkoon K, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):470–5

Hydrogen peroxide inhibits gap junctional intercellular communication in glutathione sufficient but not glutathione deficient cells. Upham BL, et al. **Carcinogenesis** 1997 Jan; 18(1):37–42

Induction of glutathione depletion, p53 protein accumulation and cellular transformation by tetrachlorohydroquinone, a toxic metabolite of pentachlorophenol. Wang YJ, et al. **Chem Biol Interact** 1997 Jun 6;105(1):1–16

Modification of Escherichia coli B glutathione synthetase with polyethylene glycol for clinical application to enzyme replacement therapy for glutathione deficiency. Inoue Y, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):663–8

Apoptosis of W256 carcinosarcoma cells of the monocytoid origin induced by NDGA involves lipid peroxidation and depletion of GSH: role of 12–lipoxygenase in regulating tumor cell survival. Tang DG, et al. **J Cell Physiol** 1997 Aug;172(2):155–70

Ventricular arrhythmias induced by ischaemia–reperfusion are unaffected by myocardial glutathione depletion. Connaughton M, et al. **J Mol Cell Cardiol** 1996 Apr; 28(4):679–88

Effects of glutathione depletion on cadmium–induced metallothionein synthesis, cytotoxicity, and proto–oncogene expression in cultured rat myoblasts. Shimizu M, et al. **J Toxicol Environ Health** 1997 Aug 29; 51(6):609–21

Changes in serum levels of creatol and methylguanidine in renal injury induced by lipid peroxide produced by vitamin E deficiency and GSH depletion in rats. Ozasa H, et al. **Nephron** 1997;75(2):224–9

Glutathione deficiency is associated with impaired survival in HIV disease. Herzenberg LA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1967–72

Effect of chronic glutathione deficiency on rat lung mitochondrial function. Thanislass J, et al. **Pulm Pharmacol** 1996 Apr;9(2):119–22

Nephrotoxicity of thioformamide, a proximate toxicant of nephrotoxic thiazoles, in mice depleted of glutathione. Mizutani T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct;94(1):89–101

DRUG EFFECTS

Glutathione–glutathione reductase system and lipid peroxidation in Saccharomyces cerevisiae under alcohol stress. Gupta S, et al. **Acta Microbiol Immunol Hung** 1996; 43(1):33–8

Glutathione depletion in the liver and brain produced by 2–chloropropionic acid: relevance to cerebellar granule cell necrosis. Wyatt I, et al. **Arch Toxicol** 1996;70(6):380–9

Comparative impact of cephaloridine on glutathione and related enzymes in LLC–PK1, LLC–RK1, and primary cultures of rat and rabbit proximal tubule cells. Morin JP, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):275–82

Alterations of the glutathione redox cycle status in fumonisin B1–treated pig kidney cells. Kang YJ, et al. **J Biochem Toxicol** 1996;11(3):121–6

Studies on the effects of monosodium glutamate on hepatic microsomal lipid peroxidation, calcium, ascorbic acid and glutathione and its dependent enzymes in adult male mice. Choudhary P, et al. **Toxicol Lett** 1996 Dec;89(1):71–6

Relationships between cell density, glutathione and proliferation of A549 human lung adenocarcinoma cells treated with acrolein. Horton ND, et al. **Toxicology** 1997 Sep 26;122(1–2):111–22

Copper ions differ from other thiol reactive metal ions in their effects on the concentration and redox status of thiols in HeLa cell cultures. Hultberg B, et al. **Toxicology** 1997 Feb 28;117(2–3):89–97

GENETICS

Expression of gamma–glutamyl transpeptidase mRNA after depletion of glutathione in rat liver. Moriya S, et al. **Alcohol Alcohol** 1994;29 Suppl 1:107–11

Expression of glutathione and gamma–glutamylcysteine synthetase mRNA is Jun dependent. Sekhar KR, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):588–93

Epithelial ovarian cancer: influence of polymorphism at the glutathione S–transferase GSTM1 and GSTT1 loci on p53 expression. Sarhanis P, et al. **Br J Cancer** 1996 Dec; 74(11):1757–61

IMMUNOLOGY

A novel and basic mechanism of immunosuppression in Chagas' disease: Trypanosoma cruzi releases in vitro and in vivo a protein which induces T cell unresponsiveness through specific interaction with cysteine and glutathione. Ouaissi A, et al. **Immunol Lett** 1995 Dec;48(3):221–4

METABOLISM

Effects of a low selenium state in patients with phenylketonuria. Jochum F, et al. **Acta Paediatr** 1997 Jul; 86(7):775–7

Skeletal muscle and heart antioxidant defences in response to sprint training. Atalay M, et al. **Acta Physiol Scand** 1996 Oct;158(2):129–34

Ischaemia–reperfusion induced alterations of mitochondrial function in hypertrophied rat heart. Leichtweis SB, et al. **Acta Physiol Scand** 1996 Jan;156(1):51–60

Effect of lipid peroxide loading on lipid peroxidation and on the glutathione and cytochrome systems in rabbits. Mézes M, et al. **Acta Vet Hung** 1996;44(4):443–50

Biosynthesis and cellular effects of toxic glutathione S–conjugates. Dekant W. **Adv Exp Med Biol** 1996; 387:297–312 (115 ref.)

An essential cysteine (Cys–227) in human carbonyl reductase is involved in glutathione binding. Tinguely J, et al. **Adv Exp Med Biol** 1997;414:563–8

Effect of taurine on toxicity of the pyrrolizidine alkaloid monocrotaline in rats. Yan CC, et al. **Adv Exp Med Biol** 1996;403:315–25

Effect of the pyrrolizidine alkaloid monocrotaline on taurine and sulfur amino acid metabolism in the rat liver. Yan CC, et al. **Adv Exp Med Biol** 1996;403:135–45

Selective depletion of mitochondrial glutathione content by pivalic acid and valproic acid in rat liver: possibility of a common mechanism. Zanelli U, et al. **Adv Exp Med Biol** 1996;387:107–11

Glutathione and glutathione delivery compounds. Anderson ME. **Adv Pharmacol** 1997;38:65–78 (70 ref.)

Role of cysteine and glutathione in HIV infection and cancer cachexia: therapeutic intervention with N–acetylcysteine. Dröge W, et al. **Adv Pharmacol** 1997;38:581–600 (88 ref.)

Effects of garlic thioallyl derivatives on growth, glutathione concentration, and polyamine formation of human prostate carcinoma cells in culture [see comments] Pinto JT, et al. **Am J Clin Nutr** 1997 Aug;66(2):398–405. Comment in: Am J Clin Nutr 1997 Aug;66(2):425–6.

GSH transport and GSH-dependent detoxication in small intestine of rats exposed in vivo to hypoxia. Bai C, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G701–6

GSH transport in mitochondria: defense against TNF-induced oxidative stress and alcohol-induced defect. Fernández-Checa JC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G7–17 (85 ref.)

Hyperoxia enhances expression of gamma-glutamyl transpeptidase and increases protein S-glutathiolation in rat lung. Knickelbein RG, et al. **Am J Physiol** 1996 Jan; 270(1 Pt 1):L115–22

Adaptations of glutathione antioxidant system to endurance training are tissue and muscle fiber specific. Leeuwenburgh C, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R363–9

Chronic hypoxia, glutathione-dependent detoxication, and metabolic instability in rat small intestine. LeGrand TS, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G328–34

Progressive defect in biliary GSH secretion in streptozotocin-induced diabetic rats. Lu SC, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):G374–82

Dynamic aspects of glutathione and nitric oxide metabolism in endotoxemic rats. Minamiyama Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G575–81

Glutathione redox cycle regulates nitric oxide-mediated glyceraldehyde-3-phosphate dehydrogenase inhibition. Padgett CM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C99–108

Glutathione content of V79 cells in two- or three-dimensional culture. Romero FJ, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1507–12

Glutathione systems and anoxia tolerance in turtles. Willmore WG, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R219–25

Induction of cystine transport and other stress proteins by disulfiram: effects on glutathione levels in cultured cells. Deneke SM, et al. **Am J Respir Cell Mol Biol** 1997 Aug; 17(2):227–34

Alveolar fluid glutathione is not reduced in asymptomatic HIV-seropositive subjects. Pacht ER, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):374–7

Effects of ozone and airway inflammation on glutathione status and iron homeostasis in the lungs of horses. Mills PC, et al. **Am J Vet Res** 1996 Sep;57(9):1359–63

Application of multivariate curve resolution to voltammetric data. II. Study of metal-binding properties of the peptides. Mendieta J, et al. **Anal Biochem** 1996 Aug 15;240(1):134–41

Lens lipid peroxides and glutathione concentrations in diabetic cataract. Ozmen D, et al. **Ann Clin Biochem** 1997 Mar;34 (Pt 2):190–2

Breast cancer: pretreatment drug resistance parameters (GSH-system, ATase, P-glycoprotein) in tumor tissue and their correlation with clinical and prognostic characteristics [see comments] Buser K, et al. **Ann Oncol** 1997 Apr; 8(4):335–41. Comment in: Ann Oncol 1997 Apr;8(4):314–5.

Elevation of glutathione and related enzyme activities in high-grade and metastatic extremity soft tissue sarcoma. Hochwald SN, et al. **Ann Surg Oncol** 1997 Jun;4(4):303–9

Effects of diallyl sulfide and diallyl disulfide on cisplatin-induced changes in glutathione and glutathione-S-transferase activity. Dwivedi C, et al. **Anticancer Drugs** 1996 Sep;7(7):792–4

The effect of ethyldeshydroxy-sparsomycin and cisplatin on the intracellular glutathione level and glutathione S-transferase activity. Hofs HP, et al. **Anticancer Drugs** 1997 Apr;8(4):349–57

Thiram and dimethyldithiocarbamic acid interconversion in Saccharomyces cerevisiae: a possible metabolic pathway under the control of the glutathione redox cycle. Elskens MT, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2857–62

Protein S-thiolation and regulation of microsomal glutathione transferase activity by the glutathione redox couple. Dafré AL, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):288–94

Carbonyl cyanide phenylhydrazones as probes of the anionic activator site of the human erythrocyte glutathione adduct transport ATPase. DeLuca DC, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):182–6

Hexokinase inactivation induced by ascorbic acid/Fe(II) in rabbit erythrocytes is independent of glutathione-reductive processes and appears to be mediated by dehydroascorbic acid. Fiorani M, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):191–6

Differential catalytic efficiency and enantioselectivity of murine glutathione S-transferase isoenzymes in the glutathione conjugation of carcinogenic anti-diol epoxides of chrysene and benzo(g)chrysene. Hu X, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):318–24

Mechanism of differential catalytic efficiency of two polymorphic forms of human glutathione S-transferase P1-1 in the glutathione conjugation of carcinogenic diol epoxide of chrysene. Hu X, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):32–8

S-glutathiolated hepatocyte proteins and insulin disulfides as substrates for reduction by glutaredoxin, thioredoxin, protein disulfide isomerase, and glutathione. Jung CH, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):61–72

Multiple routes and regulation by tyrosine phosphorylation characterize the ATP-dependent transport of 2,4-dinitrophenyl S-glutathione in inside-out vesicles from human erythrocytes. Saxena M, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):173–82

Cysteine-dependent 5-S-cysteinyldopa formation and its regulation by glutathione in normal epidermal melanocytes. Benathan M, et al. **Arch Dermatol Res** 1996 Oct; 288(11):697–702

Role of glutathione modulation in acrylonitrile-induced gastric DNA damage in rats. Ahmed AE, et al. **Arch Toxicol** 1996;70(10):620–7

Contribution to the mechanism of chromate nephrotoxicity in developing rats: EPR investigations. Appenroth D, et al. **Arch Toxicol** 1996;71(1-2):25–30

Influence of subchronic administration of oestradiol, ethinyloestradiol and oestradiol sulphamate on bile flow, bile acid excretion, and liver and biliary glutathione status in rats. Barth A, et al. **Arch Toxicol** 1997;71(7):443–9

Glutathione and glutathione-related enzyme activities of male and female rat hepatocytes under various culture conditions. Lii CK, et al. **Arch Toxicol** 1996;70(12):822–9

Dimethylarsinic acid causes apoptosis in HL-60 cells via interaction with glutathione. Ochi T, et al. **Arch Toxicol** 1996;70(12):815–21

2-Chloroacetophenone is an effective glutathione depletor in isolated rat hepatocytes [letter] Summer KH, et al. **Arch Toxicol** 1996;71(1-2):127–9

Glutathione depletion in the liver and brain produced by 2-chloropropionic acid: relevance to cerebellar granule cell necrosis. Wyatt I, et al. **Arch Toxicol** 1996;70(6):380–9

Optimal NF kappa B mediated transcriptional responses in Jurkat T cells exposed to oxidative stress are dependent on intracellular glutathione and costimulatory signals. Ginn-Pease ME, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):695–702

Active site architecture of polymorphic forms of human glutathione S-transferase P1-1 accounts for their enantioselectivity and disparate activity in the glutathione conjugation of 7beta,8alpha-dihydroxy-9alpha,10alpha-oxy-7,8,9,10-tetrahydrobenzo(a)pyrene. Hu X, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):424–8

The mutagenicity of the tyrosine metabolite, fumarylacetoacetate, is enhanced by glutathione depletion. Jorquera R, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):42–8

Rapid and specific efflux of glutathione before hepatocyte injury induced by hypoxia. Khan S, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):320–2

Glutathione depletion-induced thymidylate insufficiency for DNA repair synthesis. Lertratanangkoon K, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):470–5

Cocaine increases Sendai virus replication in cultured epithelial cells: critical role of the intracellular redox status. Palamara AT, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):579–85

Glutathione regulation of tumor necrosis factor-alpha-induced NF-kappa B activation in skeletal muscle-derived L6 cells. Sen CK, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):645–9

Oxidative stress-induced cadmium resistance in Chinese hamster V79 cells. Sengupta S, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):267–71

Identification of a novel determinant of glutathione affinity in dichloromethane dehalogenases/glutathione S-transferases. Vuilleumier S, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):452–6

Bcl-xL overexpression attenuates glutathione depletion in FL5.12 cells following interleukin-3 withdrawal. Bojes HK, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):315–9

Induction of nitric oxide synthesis in J774 cells lowers intracellular glutathione: effect of modulated glutathione redox status on nitric oxide synthase induction. Hothersall JS, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):477–81

Nitrogen dioxide depletes uric acid and ascorbic acid but not glutathione from lung lining fluid. Kelly FJ, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):95–9

Glutathione and the rate of cellular proliferation determine tumour cell sensitivity to tumour necrosis factor in vivo. Obrador E, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):183–9

Evidence for glutathione involvement in platelet-derived growth-factor-mediated signal transduction. Rigacci S, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):791–6

Glutathione conjugation of chlorambucil: measurement and modulation by plant polyphenols. Zhang K, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):417–22

The role of chelators in the catalysis of glutathione-gamma-glutamyl transpeptidase-dependent lipid peroxidation by transition metals. Zalit I, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1123–33

Adaptation to oxidative stress: quinone-mediated protection of signaling in rat lung epithelial L2 cells. Choi J, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):987–93

Inhibition of S-nitrosation of reduced glutathione in aerobic solutions of nitric oxide by phosphate and other inorganic anions. DeMaster EG, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):581–5

Glutathione regulation in rat hepatic stellate cells. Comparative studies in primary culture and in liver injury in vivo. Maher JJ, et al. **Biochem Pharmacol** 1997 Mar 7; 53(5):637–41

Alterations to glutathione and nicotinamide nucleotides during the mitochondrial permeability transition induced by peroxynitrite. Scarlett JL, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1047–55

Effect of acetaminophen administration on hepatic glutathione compartmentation and mitochondrial energy metabolism in the rat. Vendemiale G, et al. **Biochem Pharmacol** 1996 Oct 25;52(8):1147–54

Inhibition of the efflux of glutathione S-conjugates by plant polyphenols. Zhang K, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1631–8

Manipulation of glutathione metabolism in transgenic plants. Creissen G, et al. **Biochem Soc Trans** 1996 May;24(2):465–9 (28 ref.)

Measurement of glutathione as a marker of oxidative stress in CNS reaggregate cultures. Fox RM, et al. **Biochem Soc Trans** 1996 Aug;24(3):452S

Glutathione in disease. Harding JJ, et al. **Biochem Soc Trans** 1996 Aug;24(3):881–4 (34 ref.)

Active oxygen metabolism in the senescence of pea leaves: ascorbate and glutathione contents in different cell compartments. Jimenez A, et al. **Biochem Soc Trans** 1996 May;24(2):198S

Modulation of the glutathione redox state in adult astrocytes. Peuchen S, et al. **Biochem Soc Trans** 1996 Aug;24(3):449S

Effect of ethoxyquin on glutathione levels and peroxidisability of rat liver membranes. Plumb GW, et al. **Biochem Soc Trans** 1996 Aug;24(3):380S

A pseudo-michaelis quaternary complex in the reverse reaction of a ligase: structure of Escherichia coli B glutathione synthetase complexed with ADP, glutathione, and sulfate at 2.0 A resolution. Hara T, et al. **Biochemistry** 1996 Sep 17;35(37):11967–74

Conjugation of highly reactive aflatoxin B1 exo-8,9-epoxide catalyzed by rat and human glutathione transferases: estimation of kinetic parameters. Johnson WW, et al. **Biochemistry** 1997 Mar 18;36(11):3056–60

The three-dimensional structure of the human Pi class glutathione transferase P1-1 in complex with the inhibitor ethacrynic acid and its glutathione conjugate. Oakley AJ, et al. **Biochemistry** 1997 Jan 21;36(3):576–85

Effect of glutaredoxin and protein disulfide isomerase on the glutathione-dependent folding of ribonuclease A. Ruoppolo M, et al. **Biochemistry** 1997 Oct 7; 36(40):12259–67

Glutathione metabolism in hepatomous liver of rats treated with diethylnitrosamine. Marinho HS, et al. **Biochim Biophys Acta** 1997 Apr 12;1360(2):157–68

Glutathione/Fe3+/O2-mediated DNA strand breaks and 8-hydroxydeoxyguanosine formation. Enhancement by copper, zinc superoxide dismutase. Park JW, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):263–8

GSH transporters: molecular characterization and role in GSH homeostasis. Kaplowitz N, et al. **Biol Chem Hoppe Seyler** 1996 May;377(5):267–73 (58 ref.)

Glutathione status in diabetes-induced embryopathies. Menegola E, et al. **Biol Neonate** 1996;69(5):293–7

Depletion of glutathione during bovine oocyte maturation reversibly blocks the decondensation of the male pronucleus and pronuclear apposition during fertilization. Sutovsky P, et al. **Biol Reprod** 1997 Jun;56(6):1503–12

Biliary excretion of copper, manganese, and horseradish peroxidase in Eisai hyperbilirubinemic mutant rats (EHBRs) with defective biliary excretion of glutathione. Sugawara N, et al. **Biol Trace Elem Res** 1996 Oct-Nov; 55(1-2):181–9

Evaluation of hepatic antioxidant systems after intravenous administration of polymeric nanoparticles. Fernández-Urrusuno R, et al. **Biomaterials** 1997 Mar; 18(6):511–7

Age-related metabolic effects of acetaldehyde on rats with reference to detoxification enzymes and sulfhydryl groups. Devi GU, et al. **Biomed Environ Sci** 1996 Dec;9(4):380–5

Increased glutathione expression in cells induced by Crassostera gigas extract (JCOE). Tapiero H, et al. **Biomed Pharmacother** 1996;50(3-4):149–53

Helenanolide-type sesquiterpene lactones—III. Rates and stereochemistry in the reaction of helenalin and related helenanolides with sulfhydryl containing biomolecules. Schmidt TJ. **Bioorg Med Chem** 1997 Apr;5(4):645–53

Correlation of the OSR/ZRCI gene product and the intracellular glutathione levels in Saccharomyces cerevisiae. Kobayashi S, et al. **Biotechnol Appl Biochem** 1996 Feb;23 (Pt 1):3–6

Anti-Fas/Apo-1 monoclonal antibody CH-11 depletes glutathione and kills multidrug-resistant human leukemic cells. Efferth T, et al. **Blood Cells Mol Dis** 1996;22(1):2–9; discussion 10

Glutathione release and catabolism during energy substrate restriction in astrocytes. Juurlink BH, et al. **Brain Res** 1996 Feb 26;710(1-2):229–33

Vulnerability to glucose deprivation injury correlates with glutathione levels in astrocytes. Papadopoulos MC, et al. **Brain Res** 1997 Feb 14;748(1-2):151–6

Differential cellular distribution of glutathione—an endogenous antioxidant—in the guinea pig inner ear. Usami S, et al. **Brain Res** 1996 Dec 16;743(1-2):337–40

Changes in brain glutathione levels during postnatal development in the rat. Nanda D, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):238–41

Effects of mercury and lead on tissue glutathione of the green mussel, Perna viridis L. Yan T, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):845–50

Bromobenzene and furosemide hepatotoxicity: alterations in glutathione, protein thiols, and calcium. Grewal KK, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):257–64

Glutathione S-transferase-pi expression and glutathione concentration in ovarian carcinoma before and after chemotherapy. Cheng X, et al. **Cancer** 1997 Feb 1; 79(3):521–7

Active transport of glutathione S-conjugate in human colon adenocarcinoma cells. Zhang K, et al. **Cancer Lett** 1996 Nov 12;108(1):143-51

Glutathione metabolism in patients with non-small cell lung cancers. Blair SL, et al. **Cancer Res** 1997 Jan 1;57(1):152-5

Lack of glutathione conjugation of melphalan in the isolated in situ liver perfusion in humans. Vahrmeijer AL, et al. **Cancer Res** 1996 Oct 15;56(20):4709-14

Glutathione modulates the formation of 8-hydroxydeoxyguanosine in isolated DNA and mutagenicity in Salmonella typhimurium TA100 induced by mineral fibres. Howden PJ, et al. **Carcinogenesis** 1996 Oct;17(10):2275-7

Comparative impact of cephaloridine on glutathione and related enzymes in LLC-PK1, LLC-RK1, and primary cultures of rat and rabbit proximal tubule cells. Morin JP, et al. **Cell Biol Toxicol** 1996 Dec;12(4-6):275-82

Kinetics of the conjugation of aniline mustards with glutathione and thiosulfate. Gamcsik MP, et al. **Chem Biol Interact** 1997 Jun 6;105(1):35-52

The role of glutathione conjugation in the development of kidney tumours in rats exposed to trichloroethylene. Green T, et al. **Chem Biol Interact** 1997 Jul 11;105(2):99-117

Modulation of glutathione conjugation in vivo: how to decrease glutathione conjugation in vivo or in intact cellular systems in vitro. Mulder GJ, et al. **Chem Biol Interact** 1997 Jun 6;105(1):17-34 (85 ref.)

Effects of N-nitrosodimethylamine on glutathione levels during development of chick-embryo. Taniguchi M. **Chem Biol Interact** 1997 Jun 6;105(1):65-75

Structural features associated with reactive metabolite formation in clozapine analogues. Uetrecht J, et al. **Chem Biol Interact** 1997 May 2;104(2-3):117-29

17 beta-estradiol metabolism by hamster hepatic microsomes: comparison of catechol estrogen O-methylation with catechol estrogen oxidation and glutathione conjugation. Butterworth M, et al. **Chem Res Toxicol** 1996 Jun; 9(4):793-9

d-Amphetamine interaction with glutathione in freshly isolated rat hepatocytes. Carvalho F, et al. **Chem Res Toxicol** 1996 Sep;9(6):1031-6

Characterization of amino acid and glutathione adducts of cis-2-butene-1,4-dial, a reactive metabolite of furan. Chen LJ, et al. **Chem Res Toxicol** 1997 Aug;10(8):866-74

Glutathione conjugation of alkylating cytostatic drugs with a nitrogen mustard group and the role of glutathione S-transferases. Dirven HA, et al. **Chem Res Toxicol** 1996 Mar;9(2):350-60 (92 ref.)

Bioactivation of estrone and its catechol metabolites to quinoid-glutathione conjugates in rat liver microsomes. Iverson SL, et al. **Chem Res Toxicol** 1996 Mar;9(2):492-9

Identification in rat bile of glutathione conjugates of fluoromethyl 2,2-difluoro-1-(trifluoromethyl)vinyl ether, a nephrotoxic degradate of the anesthetic agent sevoflurane. Jin L, et al. **Chem Res Toxicol** 1996 Mar; 9(2):555-61

Metabolism of the chemoprotective agent diallyl sulfide to glutathione conjugates in rats. Jin L, et al. **Chem Res Toxicol** 1997 Mar;10(3):318-27

Bioactivation of a toxic metabolite of valproic acid, (E)-2-propyl-2,4-pentadienoic acid, via glucuronidation. LC/MS/MS characterization of the GSH-glucuronide diconjugates. Tang W, et al. **Chem Res Toxicol** 1996 Mar; 9(2):517-26

Structure-activity relationships for the glutathione conjugation of 2-substituted 1-chloro-4-nitrobenzenes by rat glutathione S-transferase 4-4. van der Aar EM, et al. **Chem Res Toxicol** 1996 Mar;9(2):527-34

Interleukin-2 increases intracellular glutathione levels and reverses the growth inhibiting effects of cyclophosphamide on B16 melanoma cells. Palomares T, et al. **Clin Exp Metastasis** 1997 May;15(3):329-37

Effects of enhanced striatal dopamine turnover in vivo on glutathione oxidation. Loeffler DA, et al. **Clin Neuropharmacol** 1994 Aug;17(4):370-9

Glutathione and trypanothione in several strains of Trypanosoma cruzi: effect of drugs. Repetto Y, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):281-5

Regulation of 3,3',4,4'-tetrachlorobiphenyl induced cytochrome P450 metabolism by thiols in tissues of rainbow trout. Otto DM, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jul;117(3):299-309

Activity of antioxidant defense enzymes and glutathione content in some tissues of the Belgrade (b/b) laboratory rat. Saičić ZS, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 Jun;117(2):173-9

Skeletal muscle glutathione is depleted in critically ill patients. Hammarqvist F, et al. **Crit Care Med** 1997 Jan; 25(1):78-84

An HPLC radiotracer method for assessing the ability of L-cysteine prodrugs to maintain glutathione levels in the cultured rat lens. Holleschau AM, et al. **Curr Eye Res** 1996 May;15(5):501-10

Liver and lens glutathione and cysteine regulation in galactose-fed guinea pigs. Kannan R, et al. **Curr Eye Res** 1997 Apr;16(4):365-71

Malondialdehyde and glutathione in rat gastric mucosa and effects of exogenous melatonin [letter] Akbulut H, et al. **Dig Dis Sci** 1997 Jul;42(7):1381-2

Effects of ursodeoxycholate and its conjugates on biliary glutathione excretion in rats. Takikawa H, et al. **Dig Dis Sci** 1996 Oct;41(10):1953-8

Interactions of melphalan with glutathione and the role of glutathione S-transferase. Awasthi S, et al. **Drug Metab Dispos** 1996 Mar;24(3):371-4

Depletion of glutathione in the kidney and the renal disposition of administered inorganic mercury. Zalups RK, et al. **Drug Metab Dispos** 1997 Apr;25(4):516-23

Neutrophil- and glutathione-mediated hepatotoxicity of alpha-naphthylisothiocyanate. Roth RA, et al. **Drug Metab Rev** 1997 Feb-May;29(1-2):153-65 (44 ref.)

Effects of Metadoxine on cellular status of glutathione and of enzymatic defence system following acute ethanol intoxication in rats. Calabrese V, et al. **Drugs Exp Clin Res** 1996;22(1):17-24

Transforming growth factor B1 decreases uptake of glutathione precursor amino acids in bovine pulmonary artery endothelial cells. Boustani MR, et al. **Endothelium** 1997;5(1):1-10

Role of copper and ceruloplasmin in oxidative mutagenesis induced by the glutathione-gamma-glutamyl transpeptidase system and by other thiols. Stark AA, et al. **Environ Mol Mutagen** 1997;29(1):63-72

Glutathione and nitric oxide concentrations in glutamine-infused rabbits with intestinal ischaemia/reperfusion. Başoğlu M, et al. **Eur J Clin Chem Clin Biochem** 1997 Jun;35(6):415-9

Defective antigen processing correlates with a low level of intracellular glutathione. Short S, et al. **Eur J Immunol** 1996 Dec;26(12):3015-20

Glutathione status of placentae from differently polluted regions of Ukraine. Obolenskaya MYu, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan;71(1):23-30

Anethole dithiolethione prevents oxidative damage in glutathione-depleted astrocytes. Drukarch B, et al. **Eur J Pharmacol** 1997 Jun 25;329(2-3):259-62

Role of glutathione metabolism in the glutamate-induced programmed cell death of neuronal-like PC12 cells. Froissard P, et al. **Eur J Pharmacol** 1997 May 12; 326(1):93-9

Flupirtine increases the levels of glutathione and Bcl-2 in hNT (human Ntera/D1) neurons: mode of action of the drug-mediated anti-apoptotic effect. Perovic S, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):157-64

Cellular glutathione turnover in vitro, with emphasis on type II pneumocytes. van Klaveren RJ, et al. **Eur Respir J** 1997 Jun;10(6):1392-400 (75 ref.)

Detoxification mechanism in the rat extraorbital lacrimal gland: conjugation of brefeldin A to glutathione. Robin P, et al. **Exp Eye Res** 1997 Jun;64(6):999-1004

The contribution of GSH peroxidase-1, catalase and GSH to the degradation of H2O2 by the mouse lens. Spector A, et al. **Exp Eye Res** 1997 Mar;64(3):477-85

Relationship of protein-glutathione mixed disulfide and thioltransferase in H2O2-induced cataract in cultured pig lens. Wang GM, et al. **Exp Eye Res** 1997 May;64(5):693-700

Glutathione and glutathione S-transferase in the rainbow trout olfactory mucosa during retrograde degeneration and regeneration of the olfactory nerve. Starcevic SL, et al. **Exp Neurol** 1997 Aug;146(2):331-40

Influence of vitamin E treatment on glutathione system after renal ischemia in immature and adult rats. Fleck C, et al. **Exp Toxicol Pathol** 1997 Feb;49(1-2):81-6

Regulation of hepatic glutathione metabolism and its role in hepatotoxicity. Kretzschmar M. **Exp Toxicol Pathol** 1996 Jul;48(5):439-46 (85 ref.)

Glutathione antioxidant system as a marker of oxidative stress in chronic renal failure. Ceballos-Picot I, et al. **Free Radic Biol Med** 1996;21(6):845-53

Glutathione metabolism and protection against oxidative stress caused by peroxides in Penicillium chrysogenum. Emri T, et al. **Free Radic Biol Med** 1997;23(5):809-14

Schisandrin B protects against carbon tetrachloride toxicity by enhancing the mitochondrial glutathione redox status in mouse liver. Ip SP, et al. **Free Radic Biol Med** 1996; 21(5):709-12

Glutathione consumption and glutathione peroxidase inactivation in fibroblast cell lines by 4-hydroxy-2-nonenal. Kinter M, et al. **Free Radic Biol Med** 1996;21(4):457-62

Gender and maturation affect glutathione status in human neonatal tissues. Lavoie JC, et al. **Free Radic Biol Med** 1997;23(4):648-57

No-induced oxidative stress and glutathione metabolism in rodent and human cells. Luperchio S, et al. **Free Radic Biol Med** 1996;21(4):513-9

Modulating role of endogenous reduced glutathione in tert-butyl hydroperoxide-induced cell injury in isolated rat hepatocytes. Nishida K, et al. **Free Radic Biol Med** 1997; 23(3):453-62

Neutrophil antioxidant capacity during the respiratory burst: loss of glutathione induced by chloramines. Ogino T, et al. **Free Radic Biol Med** 1997;23(3):445-52

Glutamate toxicity on a PC12 cell line involves glutathione (GSH) depletion and oxidative stress. Pereira CM, et al. **Free Radic Biol Med** 1997;23(4):637-47

Increase in heart glutathione redox ratio and total antioxidant capacity and decrease in lipid peroxidation after vitamin E dietary supplementation in guinea pigs. Rojas C, et al. **Free Radic Biol Med** 1996;21(7):907-15

Glutathione-dependent factors and inhibition of rat liver microsomal lipid peroxidation. Scholz RW, et al. **Free Radic Biol Med** 1997;23(5):815-28

Psychomotor effects of dopamine infusion under decreased glutathione conditions. Shukitt-Hale B, et al. **Free Radic Biol Med** 1997;23(3):412-8

Increase in gamma-glutamyltransferase by glutathione depletion in rat type II pneumocytes. van Klaveren RJ, et al. **Free Radic Biol Med** 1997;22(3):525-34

Glutathione dependent reduction of alloxan to dialuric acid catalyzed by thioltransferase (glutaredoxin): a possible role for thioltransferase in alloxan toxicity. Washburn MP, et al. **Free Radic Biol Med** 1997;23(4):563-70

Role of glutathione metabolism and apoptosis in the regression of liver hemopoiesis. Yamamasu S, et al. **Free Radic Biol Med** 1997;23(1):100-9

In situ microdialysis for monitoring of extracellular glutathione levels in normal, ischemic and post-ischemic skeletal muscle. Sirsjö A, et al. **Free Radic Res** 1996 Nov; 25(5):385-91

Biotransformation of the fungicide chlorthalonil by glutathione conjugation. Rosner E, et al. **Fundam Appl Toxicol** 1996 Oct;33(2):229-34

Transport of reduced glutathione in hepatic mitochondria and mitoplasts from ethanol-treated rats: effect of membrane physical properties and S-adenosyl-L-methionine. Colell A, et al. **Hepatology** 1997 Sep;26(3):699-708

Cellular target of cyclophosphamide toxicity in the murine liver: role of glutathione and site of metabolic activation. DeLeve LD. **Hepatology** 1996 Oct;24(4):830-7

Manipulation of glutathione stores in rat hepatic stellate cells does not alter collagen synthesis. Maher JJ, et al. **Hepatology** 1997 Sep;26(3):618-23

Membrane potential of hepatic mitochondria after acute cocaine administration in rats--the role of mitochondrial reduced glutathione. Masini A, et al. **Hepatology** 1997 Feb; 25(2):385-90

Effect of chronic ethanol feeding on lipid peroxidation and protein oxidation in relation to liver pathology. Rouach H, et al. **Hepatology** 1997 Feb;25(2):351-5

Cycloheximide prevents apoptosis, reactive oxygen species production, and glutathione depletion induced by transforming growth factor beta in fetal rat hepatocytes in primary culture. Sánchez A, et al. **Hepatology** 1997 Oct; 26(4):935-43

Endotoxin impairs biliary glutathione and HCO3- excretion and blocks the choleretic effect of nitric oxide in rat liver. Trauner M, et al. **Hepatology** 1997 May;25(5):1184-91

Orally given nicotinamide inhibits the decreasing of glutathione content in the pancreas of streptozotocin diabetic rats. Kretowski A, et al. **Horm Metab Res** 1996 Jan;28(1):35-6

Modulation of cisplatin chronotoxicity related to reduced glutathione in mice. Boughattas NA, et al. **Hum Exp Toxicol** 1996 Jul;15(7):563-72

The effect of sulphur mustard on glutathione levels in rat lung slices and the influence of treatment with arylthiols and cysteine esters. Langford AM, et al. **Hum Exp Toxicol** 1996 Aug;15(8):619-24

Effect of enterotoxin on glutathione status in the intestinal mucosa. Benard O, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):409-13

Redox state of pyridine nucleotides, but not glutathione, regulate Ca2+ release by H2O2 from mitochondria of pulmonary smooth muscle. Roychoudhury S, et al. **Indian J Biochem Biophys** 1996 Jun;33(3):218-22

Possible role of glutathione in resistance to heavy metals and hydrogen peroxide in a radioresistant Chinese hamster V79 cell strain. Sengupta S, et al. **Indian J Exp Biol** 1996 Sep; 34(9):905-8

Bacopa monniera Linn. as an antioxidant: mechanism of action. Tripathi YB, et al. **Indian J Exp Biol** 1996 Jun; 34(6):523-6

Effects of chelation therapy on hepatic glutathione, lipid peroxidation and phospholipid contents in lead-poisoned rats. Sachan AS, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):180-2

Glutathione transferases and glutathione-binding proteins of termites: purification and characterisation. Haritos VS, et al. **Insect Biochem Mol Biol** 1996 Jun;26(6):617-25

Intracellular glutathione in human peritoneal mesothelial cells exposed in vitro to dialysis fluid. Breborowicz A, et al. **Int J Artif Organs** 1996 May;19(5):268-75

Identification of a novel, sodium-dependent, reduced glutathione transporter in the rat lens epithelium. Kannan R, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2269-75

Age affects glutathione content and glutathione-transferase activity in human gastric mucosa. Loguercio C, et al. **Ital J Gastroenterol** 1996 Dec;28(9):477-81

Changes of glutathione metabolism during feline immunodeficiency virus infection [letter] Paolicchi A, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Sep; 13(1):94-6

Susceptibility to hepatic oxidative stress in rabbits fed different animal and plant fats. Slim RM, et al. **J Am Coll Nutr** 1996 Jun;15(3):289-94

Adverse reactions to co-trimoxazole in HIV infection: a reappraisal of the glutathione-hydroxylamine hypothesis. van der Ven AJ, et al. **J Antimicrob Chemother** 1996 May; 37 Suppl B:55-60 (22 ref.)

Glutathione metabolic responses to loaded breathing: variation among respiratory muscles. Supinski G, et al.

J Appl Physiol 1996 Sep;81(3):1362–9
Additive effect of alcohol and nicotine on lipid peroxidation and antioxidant defence mechanism in rats. Ashakumary L, et al. **J Appl Toxicol** 1996 Jul–Aug;16(4):305–8
Effect of selenium supplementation on the glutathione redox system in the kidney of mice after chronic cadmium exposures. Nehru LB, et al. **J Appl Toxicol** 1997 Jan–Feb; 17(1):81–4
The in vitro effects of captopril on the levels of lipid peroxidation and glutathione of erythrocytes in type II diabetes. Altuntaş Y, et al.
J Basic Clin Physiol Pharmacol 1995;6(3–4):281–8
Glutathione and related enzymes in rat liver treated with methyl nitrosourea. Cengiz M, et al.
J Basic Clin Physiol Pharmacol 1996;7(4):341–5
Phenoxyacetic acid induces glutathione-dependent detoxification and depletes the glutathione pool in Penicillium chrysogenum. Emri T, et al.
J Basic Microbiol 1997;37(3):181–6
An electron spin resonance assay of glutathione S-conjugate transport. Pulaski L, et al. **J Biochem Biophys Methods** 1996 Nov 15;33(2):65–71
Alterations in renal cellular glutathione metabolism after in vivo administration of a subtoxic dose of mercuric chloride. Lash LH, et al. **J Biochem Toxicol** 1996;11(1):1–9
Glutathione levels and sensitivity to apoptosis are regulated by changes in transaldolase expression. Banki K, et al.
J Biol Chem 1996 Dec 20;271(51):32994–3001
Loss of GSH, oxidative stress, and decrease of intracellular pH as sequential steps in viral infection. Ciriolo MR, et al. **J Biol Chem** 1997 Jan 31;272(5):2700–8
Direct effect of ceramide on the mitochondrial electron transport chain leads to generation of reactive oxygen species. Role of mitochondrial glutathione. García-Ruiz C, et al. **J Biol Chem** 1997 Apr 25;272(17):11369–77
Efficient transport and accumulation of vitamin C in HL-60 cells depleted of glutathione. Guaiquil VH, et al.
J Biol Chem 1997 Apr 11;272(15):9915–21
Binding of the aflatoxin-glutathione conjugate to mouse glutathione S-transferase A3-3 is saturated at only one ligand per dimer. McHugh TE, et al. **J Biol Chem** 1996 Nov 1;271(44):27470–4
Mutations in the glutathione-gated KefC K+ efflux system of Escherichia coli that cause constitutive activation. Miller S, et al. **J Biol Chem** 1997 Oct 3;272(40):24942–7
Glutathione modulates ryanodine receptor from skeletal muscle sarcoplasmic reticulum. Evidence for redox regulation of the Ca2+ release mechanism. Zable AC, et al. **J Biol Chem** 1997 Mar 14;272(11):7069–77
Variability of glutathione levels in normal breast tissue and subcutaneous fat during the menstrual cycle: an in vivo study with microdialysis technique. Dabrosin C, et al.
J Clin Endocrinol Metab 1997 May;82(5):1382–4
Sodium valproate, an anticonvulsant drug, stimulates human immunodeficiency virus type 1 replication independently of glutathione levels. Moog C, et al. **J Gen Virol** 1996 Sep; 77 (Pt 9):1993–9
Hepatotoxicity induced by iron overload and alcohol. Studies on the role of chelatable iron, cytochrome P450 2E1 and lipid peroxidation. Stål P, et al. **J Hepatol** 1996 Oct; 25(4):538–46
Glutathione depletion is an early and calcium elevation is a late event of thymocyte apoptosis. Macho A, et al.
J Immunol 1997 May 15;158(10):4612–9
Evidence for the role of an altered redox state in hyporesponsiveness of synovial T cells in rheumatoid arthritis. Maurice MM, et al. **J Immunol** 1997 Feb 1; 158(3):1458–65
Abnormal glutathione conjugation in patients with tyrosinaemia type I. Mulders TM, et al.
J Inherit Metab Dis 1997 Aug;20(4):473–85
Glutathione, glutathione S-transferase and reactive oxygen species of human scalp sebaceous glands in male pattern baldness. Giralt M, et al. **J Invest Dermatol** 1996 Aug; 107(2):154–8
Glutathione metabolism in mice is enhanced more with hapten-induced allergic contact dermatitis than with irritant contact dermatitis. Hirai A, et al.
J Invest Dermatol 1997 Sep;109(3):314–8
Glutathione recycling is attenuated by acute ethanol feeding in rat liver. Oh SI, et al. **J Korean Med Sci** 1997 Aug; 12(4):316–21
Intracellular GSH content and HIV replication in human macrophages. Garaci E, et al. **J Leukoc Biol** 1997 Jul; 62(1):54–9
Thioctic acid does not restore glutathione levels or protect against the potentiation of 6-hydroxydopamine toxicity induced by glutathione depletion in rat brain. Seaton TA, et al. **J Neural Transm** 1996;103(3):315–29
Glutathione depletion in rat brain does not cause nigrostriatal pathway degeneration. Toffa S, et al. **J Neural Transm** 1997;104(1):67–75
Effect of buthionine sulfoximine, a synthesis inhibitor of the antioxidant glutathione, on the murine nigrostriatal neurons. Andersen JK, et al. **J Neurochem** 1996 Nov; 67(5):2164–71
Glutathione content as an indicator for the presence of metabolic pathways of amino acids in astroglial cultures. Dringen R, et al. **J Neurochem** 1996 Oct;67(4):1375–82
Lazaroid treatment prevents death of cultured rat embryonic mesencephalic neurons following glutathione depletion. Grasbon-Frodl EM, et al. **J Neurochem** 1996 Oct; 67(4):1653–60
Basic fibroblast growth factor stimulation of glial cells protects dopamine neurons from 6-hydroxydopamine toxicity: involvement of the glutathione system. Hou JG, et al. **J Neurochem** 1997 Jul;69(1):76–83
Protection of flupirtine on beta-amyloid-induced apoptosis in neuronal cells in vitro: prevention of amyloid-induced glutathione depletion. Müller WE, et al. **J Neurochem** 1997 Jun;68(6):2371–7
Glutathione efflux from cultured astrocytes. Sagara J, et al.
J Neurochem 1996 May;66(5):1876–81
In vivo monitoring of glutathione and cysteine in rat caudate nucleus using microdialysis on-line with capillary zone electrophoresis-laser induced fluorescence detection. Lada MW, et al. **J Neurosci Methods** 1997 Apr 4;72(2):153–9
Assessment of antioxidative ability in brain: technetium-99m-meso-HMPAO as an imaging agent for glutathione localization. Sasaki T, et al. **J Nucl Med** 1996 Oct;37(10):1698–701
Food restriction reduces aflatoxin B1 (AFB1)-DNA adduct formation, AFB1-glutathione conjugation, and DNA damage in AFB1-treated male F344 rats and B6C3F1 mice. Chou MW, et al. **J Nutr** 1997 Feb;127(2):210–7
Splenocyte glutathione and CD3-mediated cell proliferation are reduced in mice fed a protein-deficient diet. Taylor CG, et al. **J Nutr** 1997 Jan;127(1):44–50
Nitrite-induced photo-oxidation of thiol and its implications in smog toxicity to the eye: prevention by ascorbate. Varma SD, et al. **J Ocul Pharmacol Ther** 1997 Apr;13(2):179–87
Effects of preconditioning with ebselen on glutathione metabolism and stress protein expression. Hoshida S, et al.
J Pharmacol Exp Ther 1997 Jun;281(3):1471–5
Thiols and selenium: protective effect on human skin fibroblasts exposed to UVA radiation. Emonet N, et al.
J Photochem Photobiol B 1997 Aug;40(1):84–90
Mitochondrial glutathione redox and energy producing function during liver ischemia and reperfusion. Kurokawa T, et al. **J Surg Res** 1996 Nov;66(1):1–5
Lipopolysaccharide-mediated hepatic glutathione depletion and progressive mitochondrial damage in mice: protective effect of glutathione monoethyl ester. Uedono Y, et al.
J Surg Res 1997 Jun;70(1):49–54
Effect of glutathione depletion on cisplatin resistance in cancer cells transfected with the gamma-glutamylcysteine synthetase gene. Kurokawa H, et al. **Jpn J Cancer Res** 1997 Feb;88(2):108–10
Fluorescent estimation of H2O2-induced changes in cell viability and cellular nonprotein thiol level of dissociated rat thymocytes. Chikahisa L, et al. **Jpn J Pharmacol** 1996 Aug;71(4):299–305
Depletion of glutathione from brain cells in hyponatremia. Clark EC, et al. **Kidney Int** 1996 Feb;49(2):470–6
Effect of age on alteration of glutathione metabolism following chronic cigarette smoke inhalation in mice. Teramoto S, et al. **Lung** 1996;174(2):119–26
Role of glutathione conjugation in protection of weanling rat liver against acetaminophen-induced hepatotoxicity. Allameh A, et al. **Mech Ageing Dev** 1997 Apr;95(1–2):71–9
Effects of age on levels of cysteine, glutathione and related enzyme activities in livers of mice and rats and an attempt to replenish hepatic glutathione level of mouse with cysteine derivatives. Nakata K, et al. **Mech Ageing Dev** 1996 Sep 30;90(3):195–207
Effects on interstitial glutathione, cysteine and 5-S-cysteinyldopa of buthionine sulphoximine in human melanoma transplants. Dizdar N, et al. **Melanoma Res** 1997 Aug;7(4):322–8
Intranuclear distribution, function and fate of glutathione and glutathione-S-conjugate in living rat hepatocytes studied by fluorescence microscopy. Bellomo G, et al.
Microsc Res Tech 1997 Feb 15;36(4):243–52 (58 ref.)
Conjugation of glutathione with the reactive metabolites of 1, 1-dichloroethylene in murine lung and liver. Forkert PG. **Microsc Res Tech** 1997 Feb 15;36(4):234–42 (45 ref.)
Effects of nifurtimox and benznidazole upon glutathione and trypanothione content in epimastigote, trypomastigote and amastigote forms of Trypanosoma cruzi. Maya JD, et al.
Mol Biochem Parasitol 1997 May;86(1):101–6
A glutathione reductase mutant of yeast accumulates high levels of oxidized glutathione and requires thioredoxin for growth. Muller EG. **Mol Biol Cell** 1996 Nov;7(11):1805–13
Suppression of nitric oxide-induced apoptosis by N-acetyl-L-cysteine through modulation of glutathione, bcl-2, and bax protein levels. Ho YS, et al.
Mol Carcinog 1997 Jun;19(2):101–13
Alterations in tissue glutathione antioxidant system in streptozotocin-induced diabetic rats. Mak DH, et al.
Mol Cell Biochem 1996 Sep 20;162(2):153–8
Hepatic response to the oxidative stress induced by E. coli endotoxin: glutathione as an index of the acute phase during the endotoxic shock. Portolés MT, et al.
Mol Cell Biochem 1996 Jun 21;159(2):115–21
Glutathione metabolism in non-ischemic and postischemic rat hearts in response to an exogenous prooxidant. Verbunt RJ, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):127–34
The level of intracellular glutathione is a key regulator for the induction of stress-activated signal transduction pathways including Jun N-terminal protein kinases and p38 kinase by alkylating agents. Wilhelm D, et al.
Mol Cell Biol 1997 Aug;17(8):4792–800
The effects of oxidative stress on in vivo brain GSH turnover in young and mature mice. Chang ML, et al.
Mol Chem Neuropathol 1997 Apr;30(3):187–97
ATP-dependent transport of aflatoxin B1 and its glutathione conjugates by the product of the multidrug resistance protein (MRP) gene. Loe DW, et al. **Mol Pharmacol** 1997 Jun;51(6):1034–41
gamma-Glutamyl transpeptidase of spermatozoa may decrease oocyte glutathione content at fertilization in pigs. Funahashi H, et al. **Mol Reprod Dev** 1996 Dec;45(4):485–90
Modulation of the clastogenic activity of bleomycin by reduced-glutathione, glutathione-ester and buthionine sulphoximine. Chattopadhyay A, et al. **Mutagenesis** 1997 Jul;12(4):221–5
Effect of decreased glutathione levels in hereditary glutathione synthetase deficiency on dibromoethane-induced genotoxicity in human fibroblasts. DeLeve LD. **Mutat Res** 1997 Mar 17;389(2–3):291–7
Induction of chromosomal aberrations in cultured human fibroblasts by inorganic and organic arsenic compounds and the different roles of glutathione in such induction. Oya-Ohta Y, et al. **Mutat Res** 1996 Oct 25;357(1–2):123–9
Modulation of mitomycin C mutagenicity on Saccharomyces cerevisiae by glutathione, cytochrome P-450, and mitochondria interactions. Rossi C, et al. **Mutat Res** 1997 Apr 24;390(1–2):113–20
Glutathione and glutathione metabolizing enzymes in tissues and blood of breast cancer patients. Gromadzińska J, et al. **Neoplasma** 1997;44(1):45–51
Selective modulation of non-protein sulfhydryl levels in Ehrlich ascites tumor bearing mice. Włodek LB, et al.
Neoplasma 1996;43(4):259–63
The gamma-glutamyl transpeptidase inhibitor acivicin preserves glutathione released by astroglial cells in culture. Dringen R, et al. **Neurochem Res** 1997 Jun;22(6):727–33
Glutathione is an endogenous ligand of rat brain N-methyl-D-aspartate (NMDA) and 2-amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) receptors. Varga V, et al. **Neurochem Res** 1997 Sep;22(9):1165–71
Presence of glutathione immunoreactivity in cultured neurones and astrocytes. Langeveld CH, et al.
Neuroreport 1996 Jul 29;7(11):1833–6
Glutathione depletion potentiates MPTP and MPP+ toxicity in nigral dopaminergic neurones. Wüllner U, et al.
Neuroreport 1996 Mar 22;7(4):921–3
Response of glial cells to ischemia: roles of reactive oxygen species and glutathione. Juurlink BH.
Neurosci Biobehav Rev 1997 Mar;21(2):151–66 (176 ref.)
Alterations in the glutathione content of mitochondria following short-term forebrain ischemia in rats. Zaidan E, et al. **Neurosci Lett** 1996 Nov 1;218(2):75–78
Effect of 2-cyclohexene-1-one-induced glutathione diminution on ischemia/reperfusion-induced alterations in the physical state of brain synaptosomal membrane proteins and lipids. Hall NC, et al. **Neuroscience** 1997 Mar; 77(1):283–90
Reduction of intracellular glutathione levels produces sustained arterial narrowing. Zhou D, et al.
Neurosurgery 1996 Nov;39(5):991–7
TNF-induced apoptosis in multidrug resistant friend erythroleukemia is not influenced by the P-glycoprotein and glutathione status of the cell line [published erratum appears in Oncol Res 1996;8(3):145] Flugy A, et al.
Oncol Res 1995;7(10–11):559–64
Key molecule found to prolong survival of HIV patients.
Oncology (Huntingt) 1997 May;11(5):679–80
Intracameral ascorbic acid, glutathione and protein levels in albino and pigmented rabbits. Numata K, et al.
Ophthalmic Res 1995;27(6):347–9
Increased pancreatic metallothionein and glutathione levels: protecting against cerulein- and taurocholate-induced acute pancreatitis in rats. Wang ZH, et al. **Pancreas** 1996 Aug;13(2):173–83
Glutathione as a cytoprotective antioxidant in erythrocytes of the newborn: the role of G6PD and zinc protoporphyrin: a hypothesis [letter] Malina L, et al.
Pediatr Hematol Oncol 1997 Sep–Oct;14(5):495–7
Lipid peroxides, glutathione, gamma-glutamylcysteine synthetase and gamma-glutamyltranspeptidase activities in several tissues of rats following water-immersion stress. Alptekin N, et al. **Pharmacol Res** 1996 Sep–Oct; 34(3–4):167–9
Nitrofurantoin-induced hepatic and pulmonary biochemical changes in mice fed different vitamin E doses. Adam A, et al. **Pharmacol Toxicol** 1996 Dec;79(6):334–9
Regulation of sulphation and glutathion conjugation of acetaminophen in isolated rat hepatocytes. Dalhoff K.
Pharmacol Toxicol 1996;78 Suppl 1:1–24 (173 ref.)
Tissue changes in glutathione metabolism and lipid peroxidation induced by swimming are partially prevented by melatonin. Hara M, et al. **Pharmacol Toxicol** 1996 May; 78(5):308–12
Protective effects of antioxidants against uraemia-induced lipid peroxidation and glutathione depletion in humans. Hassan MQ, et al. **Pharmacol Toxicol** 1995 Dec; 77(6):407–11
Differential effect of central versus parenteral administration of morphine sulfate on regional concentrations of reduced glutathione in rat brain. Goudas LC, et al.
Pharmacology 1997 Feb;54(2):92–7
Effects of organic anions on biliary glutathione excretion in rats. Takikawa H, et al. **Pharmacology** 1996 Aug; 53(2):114–22

Glutathione response after UVA irradiation in mitotic and postmitotic human skin fibroblasts and keratinocytes. Niggli HJ, et al. **Photochem Photobiol** 1997 Apr;65(4):680–4

The influence of ascorbic acid on the hepatic cytochrome P–450, and glutathione in guinea–pigs exposed to 2,4–dichlorophenol. Nagyová A, et al. **Physiol Res** 1995; 44(5):301–5

Intracellular glutathione level modulates the induction of apoptosis by delta 12–prostaglandin J2. Kim HS, et al. **Prostaglandins** 1996 Jun;51(6):413–25

Peroxynitrite modification of glutathione reductase: modeling studies and kinetic evidence suggest the modification of tyrosines at the glutathione disulfide binding site. Francescutti D, et al. **Protein Eng** 1996 Feb;9(2):189–94

NMR characterization of structure, backbone dynamics, and glutathione binding of the human macrophage migration inhibitory factor (MIF). Mühlhahn P, et al. **Protein Sci** 1996 Oct;5(10):2095–103

Glutathione–dependent bioactivation and renal toxicity of xenobiotics. Dekant W. **Recent Results Cancer Res** 1997; 143:77–87 (83 ref.)

Time course of renal glutathione levels in experimental Fanconi syndrome: an enzyme–based approach. Mimić–Oka J, et al. **Ren Fail** 1997 May;19(3):373–81

Formation of glutathione adducts and 2–aminofluorene from 2–nitrosofluorene in postimplantation rat conceptuses in vitro. Berberian RM, et al. **Reprod Toxicol** 1996 Jul–Aug; 10(4):273–84

Response of endogenous reduced glutathione through hepatic glutathione redox cycle to enhancement of hepatic lipid peroxidation with the development of acute liver injury in mice intoxicated with carbon tetrachloride. Nishida K, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug; 93(2):198–218

Expression of glutathione S–transferase activity and glutathione content in squamous cell carcinoma of bladder associated with schistosomiasis in a population in Egypt. Ghazaly GE, et al. **Scand J Urol Nephrol** 1997 Feb; 31(1):43–7

Plasma membrane and mitochondrial transport of hepatic reduced glutathione. Fernández–Checa JC, et al. **Semin Liver Dis** 1996 May;16(2):147–58 (44 ref.)

Arsenite efflux is inhibited by verapamil, cyclosporin A, and GSH–depleting agents in arsenite–resistant Chinese hamster ovary cells. Huang RN, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):17–22

A novel mechanism of glutathione conjugate formation by lipoxygenase: a study with ethacrynic acid. Kulkarni AP, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):179–88

Pharmacologic modulation of reduced glutathione circadian rhythms with buthionine sulfoximine: relationship with cisplatin toxicity in mice. Li XM, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):281–90

Protection by clofibrate against acetaminophen hepatotoxicity in male CD–1 mice is associated with an early increase in biliary concentration of acetaminophen–glutathione adducts. Manautou JE, et al. **Toxicol Appl Pharmacol** 1996 Sep;140(1):30–8

Physiologically based pharmacodynamic modeling of an interaction threshold between trichloroethylene and 1,1–dichloroethylene in Fischer 344 rats. el–Masri HA, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):124–32

Formation of GSH–derivatives as a pathway for inactive intermediates in vinylidene chloride–treated rats. Cossec B, et al. **Toxicol Lett** 1996 Dec 31;89(3):223–9

Protective effects of antioxidants against benomyl–induced lipid peroxidation and glutathione depletion in rats. Banks D, et al. **Toxicology** 1997 Jan 15;116(1–3):177–81

Hepatic and pulmonary glutathione conjugation of 1,2:3,4–diepoxybutane in human, rat, and mouse in vitro. Boogaard PJ, et al. **Toxicology** 1996 Oct 28;113(1–3):297–9

A physiological toxicokinetic model for 1,3–butadiene in rodents and man: blood concentrations of 1,3–butadiene, its metabolically formed epoxides, and of haemoglobin adducts—relevance of glutathione depletion. Csanády GA, et al. **Toxicology** 1996 Oct 28;113(1–3):300–5

Antimony–induced alterations in thiol homeostasis and adenine nucleotide status in cultured cardiac myocytes. Tirmenstein MA, et al. **Toxicology** 1997 May 16; 119(3):203–11

Effects of fraxetin on glutathione redox status. Martín–Aragón S, et al. **Z Naturforsch [C]** 1997 Jan–Feb; 52(1–2):55–9

Pronuclear formation and intracellular glutathione content of in vitro–matured porcine oocytes following in vitro fertilisation and/or electrical activation. Funahashi H, et al. **Zygote** 1995 Aug;3(3):273–81

[Metabolism and antioxidant function of glutathione] Gérard–Monnier D, et al. **Pathol Biol (Paris)** 1996 Jan; 44(1):77–85 (65 ref.) (Eng. Abstr.) **(Fre)**

[Regulation of glutathione level in venous plasma and aqueous humor in cataracta senilis provecta] Stahl E, et al. **Ophthalmologe** 1996 Feb;93(1):54–8 (Eng. Abstr.) **(Ger)**

[Reduced and oxidized glutathione of the placenta in pregnancy complicated by pre–eclampsia] Neves J, et al. **Acta Med Port** 1997 May;10(5):357–60 (Eng. Abstr.) **(Por)**

[The clinical significance of the liver glutathione system in chronic lesions] Loginov AS, et al. **Ter Arkh** 1997; 69(2):25–7 (Eng. Abstr.) **(Rus)**

[Effect of enomelanin on lipid peroxidation and the glutathione system in rat lung tissue exposed to NO2] Galkin BN, et al. **Ukr Biokhim Zh** 1995 Nov–Dec; 67(6):106–9 (Eng. Abstr.) **(Rus)**

[Cytochrome P–450–dependent hydroxylation and activity of glutathione–dependent liver enzymes in chronic liver diseases] Matiushin BN, et al. **Vopr Med Khim** 1997 Jul–Aug;43(4):256–60 (Eng. Abstr.) **(Rus)**

[Glutathione and enzymes associated with glutathione metabolism in adriamycin nephropathy] Simić T, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:45–7 (Eng. Abstr.) **(Scc)**

PHARMACOKINETICS

Glutathione kinetics in normal man and in patients with liver cirrhosis. Bianchi G, et al. **J Hepatol** 1997 Mar;26(3):606–13

ATP–dependent transport of aflatoxin B1 and its glutathione conjugates by the product of the multidrug resistance protein (MRP) gene. Loe DW, et al. **Mol Pharmacol** 1997 Jun;51(6):1034–41

PHARMACOLOGY

Intracellular glutathione as a possible direct blocker of HIV type 1 reverse transcription. Kameoka M, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20;12(17):1635–8

Glutathione inhibits HIV replication by acting at late stages of the virus life cycle. Palamara AT, et al. **AIDS Res Hum Retroviruses** 1996 Nov 1;12(16):1537–41

Effect of glutathione on inositol 1,4,5–triphosphate–induced Ca2+ release in permeabilized hepatocytes from control and chronic ethanol–fed rats. Nomura T, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):325A–329A

Glutathione causes coronary vasodilation via a nitric oxide– and soluble guanylate cyclase–dependent mechanism. Cheung PY, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1231–8

Plasma methionine and cysteine kinetics in response to an intravenous glutathione infusion in adult humans. Fukagawa NK, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E209–14

Modulation of ICAM–1 expression by extracellular glutathione in hyperoxia–exposed human pulmonary artery endothelial cells. Aoki T, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):319–27

Drug conjugate of doxorubicin with glutathione is a potent reverser of multidrug resistance in rat hepatoma cells. Asakura T, et al. **Anticancer Drugs** 1997 Feb;8(2):199–203

Effect of cysteine, N–acetyl–L–cysteine and glutathione on cytotoxic activity of antioxidants. Satoh K, et al. **Anticancer Res** 1997 May–Jun;17(3C):2175–9

Effect of heparin–reduced glutathione on hamster sperm DNA unpacking and nuclear swelling. Reyes R, et al. **Arch Androl** 1996 Jul–Aug;37(1):33–45

Effects of glutathione and pH on the oxidation of biomarkers of cellular oxidative stress. Zhu H, et al. **Arch Toxicol** 1996; 70(10):628–34

Two types of microsomal prostaglandin E synthase: glutathione–dependent and –independent prostaglandin E synthases. Watanabe K, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):148–52

Epitope mapping of a monoclonal antibody to human glutathione transferase P1–1 the binding of which is inhibited by glutathione. Takahata T, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):531–6

The protective effects of dihydrolipoamide and glutathione against photodynamic damage by Al–phtalocyanine tetrasulfonate. Kliukienė R, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):707–13

Alleviation of paraquat–induced lung injury by pretreatment with bifunctional liposomes containing alpha–tocopherol and glutathione. Suntres ZE, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1515–20

Glutathione alters the mode of calcium–mediated regulation of adenylyl cyclase in membranes from mouse brain. Nakamura J, et al. **Biochim Biophys Acta** 1997 May 23; 1339(2):239–46

Comparative studies of enhanced iron–mediated production of hydroxyl radical by glutathione, cysteine, ascorbic acid, and selected catechols. Nappi AJ, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):295–302

Protective effects of GSH, vitamin E, and selenium on lipid peroxidation in cadmium–fed rats. Rana SV, et al. **Biol Trace Elem Res** 1996 Feb;51(2):161–8

Role of exogenous reduced glutathione on time dependent 203Hg distribution in liver and kidney of a freshwater teleost, Anabas testudineus. Sarkar D, et al. **Biomed Environ Sci** 1997 Mar;10(1):60–4

The in vitro binding kinetics of cisplatin to human plasma proteins is not affected by glutathione. Torti L, et al. **Boll Chim Farm** 1997 Apr;136(4):301–3

Endogenous Alzheimer's brain factor and oxidized glutathione inhibit antagonist binding to the muscarinic receptor. Frey WH 2nd, et al. **Brain Res** 1996 Apr 1; 714(1–2):87–94

Protective effects of GSH, alpha–tocopherol, and selenium on lipid–peroxidation in liver and kidney of copper fed rats. Rana SV, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):152–8

Reduced glutathione and S–acetylglutathione as selective apoptosis–inducing agents in cancer therapy [published erratum appears in Cancer Lett 1997 May 19;115(2):265] Donnerstag B, et al. **Cancer Lett** 1996 Dec 20; 110(1–2):63–70

Inhibition of N–nitrosodimethylamine demethylase in rat and human liver microsomes by isothiocyanates and their glutathione, L–cysteine, and N–acetyl–L–cysteine conjugates. Jiao D, et al. **Chem Res Toxicol** 1996 Sep; 9(6):932–8

The role of free radicals in p–aminophenol–induced nephrotoxicity: does reduced glutathione have a protective effect? Kanbak G, et al. **Clin Chim Acta** 1996 Aug 15; 252(1):61–71

Effect of intraocular irrigating solutions on the viability of cultured retinal vascular endothelial cells. Mourad KM, et al. **Curr Eye Res** 1997 Mar;16(3):239–43

Glutathione protects astrocytes from peroxynitrite–mediated mitochondrial damage: implications for neuronal/astrocytic trafficking and neurodegeneration. Barker JE, et al. **Dev Neurosci** 1996;18(5–6):391–6

Glutathione and N–acetylcysteine reduce gastric mucosal blood flow in rats. Ovrebø KK, et al. **Dig Dis Sci** 1997 Aug;42(8):1765–74

Metabolic inactivation of cytochrome P4502B1 by phencyclidine: immunochemical and radiochemical analyses of the protective effects of glutathione. Sharma U, et al. **Drug Metab Dispos** 1997 Feb;25(2):243–50

Cysteine–induced enhancement of lipid peroxidation in substantia nigra: comparative effect with exogenous administration of reduced glutathione. Calabrese V, et al. **Drugs Exp Clin Res** 1997;23(1):25–31

Glutathione–dependent modulation of exhausting exercise–induced changes in neutrophil function of rats. Atalay M, et al. **Eur J Appl Physiol** 1996;74(4):342–7

Defective antigen processing correlates with a low level of intracellular glutathione. Short S, et al. **Eur J Immunol** 1996 Dec;26(12):3015–20

Modulation of sensory and excitatory amino acid responses by nitric oxide donors and glutathione in the ventrobasal thalamus of the rat. Shaw PJ, et al. **Eur J Neurosci** 1997 Jul;9(7):1507–13

Prevention of dopamine–induced cell death by thiol antioxidants: possible implications for treatment of Parkinson's disease. Offen D, et al. **Exp Neurol** 1996 Sep; 141(1):32–9

Role of thioltransferases on the modulation of rat liver S–adenosylmethionine synthetase activity by glutathione. Martínez–Chantar ML, et al. **FEBS Lett** 1996 Nov 18; 397(2–3):293–7

Mutants of Escherichia coli lacking disulphide oxidoreductases DsbA and DsbB cannot synthesise an exogenous monohaem c–type cytochrome except in the presence of disulphide compounds. Sambongi Y, et al. **FEBS Lett** 1996 Dec 2;398(2–3):265–8

Anti–cancer drugs and glutathione stimulate vanadate–induced trapping of nucleotide in multidrug resistance–associated protein (MRP). Taguchi Y, et al. **FEBS Lett** 1997 Jan 13;401(1):11–4

Nitric oxide–mediated mitochondrial damage: a potential neuroprotective role for glutathione. Bolaños JP, et al. **Free Radic Biol Med** 1996;21(7):995–1001

Oxygen–induced embryopathy and the significance of glutathione–dependent antioxidant system in the rat embryo during early organogenesis. Ishibashi M, et al. **Free Radic Biol Med** 1997;22(3):447–54

In vitro effect of reduced glutathione on platelet function. Pacchiarini L, et al. **Haematologica** 1996 Nov–Dec; 81(6):497–502

Presence of methenamine/glutathione mixtures reduces the cytotoxic effect of sulphur mustard on cultured SVK–14 human keratinocytes in vitro. Smith CN, et al. **Hum Exp Toxicol** 1997 May;16(5):247–53

Mechanistic aspects of modification of radiobiological damage in barley seeds by glutathione and buthionine sulfoximine. Singh SP, et al. **Indian J Exp Biol** 1996 Mar; 34(3):247–51

Thiols decrease human IL–4 production and IL–4–induced immunoglobulin synthesis. Jeannin P, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):329–30

The cell–specific anti–proliferative effect of reduced glutathione is mediated by gamma–glutamyl transpeptidase–dependent extracellular pro–oxidant reactions. Perego P, et al. **Int J Cancer** 1997 Apr 10; 71(2):246–50

Glutathione protects a human insulinoma cell line from tumor necrosis factor–alpha–mediated cytotoxicity. Cavallo MG, et al. **Int J Clin Lab Res** 1997;27(1):44–7

Decreased susceptibility of glycated very low density lipoproteins to lipoprotein lipase in vitro and prevention by glutathione. Saheki S, et al. **J Atheroscler Thromb** 1994; 1(1):8–14

Inhibition of the neutral magnesium–dependent sphingomyelinase by glutathione. Liu B, et al. **J Biol Chem** 1997 Jun 27;272(26):16281–7

Adult T cell leukemia (ATL)–derived factor/human thioredoxin prevents apoptosis of lymphoid cells induced by L–cystine and glutathione depletion: possible involvement of thiol–mediated redox regulation in apoptosis caused by pro–oxidant state. Iwata S, et al. **J Immunol** 1997 Apr 1;158(7):3108–17

N–conjugates of 2,5–disubstituted pyrrole and glutathione. Evaluation of their potency as antioxidants against photosensitization of NCTC 2544 keratinocytes by excess endogenous protoporphyrin IX. Gaullier JM, et al. **J Photochem Photobiol B** 1997 May;39(1):24–9

Oxidized glutathione mediates cation channel activation in calf vascular endothelial cells during oxidant stress. Koliwad SK, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):37–49

Antioxidant activity of metallothionein compared with reduced glutathione. Miura T, et al. **Life Sci** 1997;60(21):PL 301–9

Reduced glutathione inhibits rabbit and rat skeletal muscle lactate dehydrogenase and prevents dinitrophenol induced extracellular acidification by an epithelial cell line. Wimberger P, et al. **Life Sci** 1997;61(4):403–9

Compatibility of reduced glutathione (GSH) with different solutions currently used in anesthesia and reanimation. Mangiameli S, et al. **Minerva Anestesiol** 1995 Oct; 61(10):407–9

Modulation of glutathione level during butyrate-induced differentiation in human colon derived HT–29 cells. Benard O, et al. **Mol Cell Biochem** 1997 May;170(1–2):109–14

Improvement in bovine embryo production in vitro by glutathione–containing culture media. Luvoni GC, et al. **Mol Reprod Dev** 1996 Apr;43(4):437–43

Formation of 8–hydroxy–2'–deoxyguanosine following treatment of 2'–deoxyguanosine or DNA by hydrogen peroxide or glutathione. Abu–Shakra A, et al. **Mutat Res** 1997 Apr 24;390(1–2):45–50

A role for 12–lipoxygenase in nerve cell death caused by glutathione depletion. Li Y, et al. **Neuron** 1997 Aug; 19(2):453–63

Selective role of glutathione in protecting human neuronal cells from dopamine–induced apoptosis. Gabby M, et al. **Neuropharmacology** 1996 May;35(5):571–8

Glutathione–induced sodium currents in neocortex. Shaw CA, et al. **Neuroreport** 1996 Apr 26;7(6):1149–52

Attenuation of aminoglycoside ototoxicity by glutathione. Nishida I, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Mar–Apr;58(2):68–73

The effects of glutathione glycoside in methyl mercury poisoning. Choi BH, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):357–64

Protective effect of reduced glutathione on endothelial function of coronary arteries subjected to prolonged cold storage. Kevelaitis E, et al. **Transplantation** 1997 Aug 27; 64(4):660–3

[Role of glutathione containing amino acids in the correction of body's dysadaptation states] Pavlov VA. **Probl Tuberk** 1997;(3):51–3 (10 ref.) (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Chronic hypoxia and glutathione–dependent detoxication in rat small intestine. LeGrand TS, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G725–9

Glutathione regulates nitric oxide synthase in cultured hepatocytes. Harbrecht BG, et al. **Ann Surg** 1997 Jan; 225(1):76–87

Role of glutathione modulation in acrylonitrile–induced gastric DNA damage in rats. Ahmed AE, et al. **Arch Toxicol** 1996;70(10):620–7

The role of glutathione in L–2–chloropropionic acid induced cerebellar granule cell necrosis in the rat. Wyatt I, et al. **Arch Toxicol** 1996;70(11):724–35

Glutathione–dependent activities of Trypanosoma cruzi p52 makes it a new member of the thiol:disulphide oxidoreductase family. Moutiez M, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):43–8

Mitochondrial respiratory enzyme function and superoxide dismutase activity following brain glutathione depletion in the rat. Seaton TA, et al. **Biochem Pharmacol** 1996 Dec 13;52(11):1657–63

Augmented intracellular glutathione inhibits Fas–triggered apoptosis of activated human neutrophils. Watson RW, et al. **Blood** 1997 Jun 1;89(11):4175–81

Depletion of brain glutathione results in a decrease of glutathione reductase activity; an enzyme susceptible to oxidative damage. Barker JE, et al. **Brain Res** 1996 Apr 15;716(1–2):118–22

Effect of glutathione depletion on the cytotoxicity of cisplatin and iproplatin in a human melanoma cell line. Pendyala L, et al. **Cancer Chemother Pharmacol** 1997;40(1):38–44

Physiological melatonin inhibition of human breast cancer cell growth in vitro: evidence for a glutathione–mediated pathway. Blask DE, et al. **Cancer Res** 1997 May 15; 57(10):1909–14

Glutathione plays a role in the chick intestinal calcium absorption. Tolosa de Talamoni N, et al. **Comp Biochem Physiol A Physiol** 1996 Oct;115(2):127–32

Neutrophil– and glutathione–mediated hepatotoxicity of alpha–naphthylisothiocyanate. Roth RA, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):153–65 (44 ref.)

Role of glutathione in nitric oxide–mediated injury to rat gastric mucosal cells. Wakulich CA, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):333–41

Redox state changes in density–dependent regulation of proliferation. Hutter DE, et al. **Exp Cell Res** 1997 May 1;232(2):435–8

Regulation of hepatic glutathione metabolism and its role in hepatotoxicity. Kretzschmar M. **Exp Toxicol Pathol** 1996 Jul;48(5):439–46 (85 ref.)

Glutathione is an important antioxidant molecule in the yeast Saccharomyces cerevisiae. Stephen DW, et al. **FEMS Microbiol Lett** 1996 Aug 1;141(2–3):207–12

Endogenous glutathione as potential protectant against free radicals in the skin of vitamin A deficient mice. Pélissier MA, et al. **Food Chem Toxicol** 1997 Jul;35(7):693–6

Ascorbate recycling in human erythrocytes: role of GSH in reducing dehydroascorbate. May JM, et al. **Free Radic Biol Med** 1996;20(4):543–51

Human (THP–1) macrophages oxidize LDL by a thiol–dependent mechanism [corrected and republished article originally printed in Free Radic Res 1994 Oct;21(5):295–308] Graham A, et al. **Free Radic Res** 1996 Aug;25(2):181–92

Gastric mucosal damage in experimental diabetes in rats: role of endogenous glutathione. Goldin E, et al. **Gastroenterology** 1997 Mar;112(3):855–63

Platelets attenuate oxidant–induced permeability in endothelial monolayers: glutathione–dependent mechanisms. Strange C, et al. **J Appl Physiol** 1996 Oct; 81(4):1701–6

Chemosensitivity of head and neck squamous carcinoma cell lines is not primarily correlated with glutathione level but is modified by glutathione depletion. Bier H, et al. **J Cancer Res Clin Oncol** 1996;122(11):653–8

Glutathione is involved in the granular storage of dopamine in rat PC 12 pheochromocytoma cells: implications for the pathogenesis of Parkinson's disease. Drukarch B, et al. **J Neurosci** 1996 Oct 1;16(19):6038–45

Protective effects of glutathione on bromodichloromethane in vivo toxicity and in vitro macromolecular binding in Fischer 344 rats. Gao P, et al. **J Toxicol Environ Health** 1996 Oct 11;49(2):145–59

Enhancement of paraquat toxicity by glutathione depletion in mice in vivo and in vitro. Nakagawa I, et al. **J Toxicol Sci** 1995 Nov;20(5):557–64

Relationship between glutathione and DL alpha–lipoic acid against cadmium–induced hepatotoxicity. Sumathi R, et al. **Jpn J Med Sci Biol** 1996 Apr;49(2):39–48

An important role for glutathione and gamma–glutamyltranspeptidase in the supply of growth requirements during nitrogen starvation of the yeast Saccharomyces cerevisiae. Mehdi K, et al. **Microbiology** 1997 Jun;143 (Pt 6):1885–9

Mutagenicity of 2–amino–1–methyl–6–phenylimidazo[4,5–b]pyridine (PhIP) when activated by hamster pancreatic duct epithelial cells: a chemopreventive role for glutathione. Lawson T, et al. **Mutat Res** 1997 Apr 14;375(1):73–8

Glutathione depletion is accompanied by increased neuronal nitric oxide synthase activity. Heales SJ, et al. **Neurochem Res** 1996 Jan;21(1):35–9

Effect of glutathione depletion on metallothionein synthesis induced by paraquat in mice. Nakagawa I, et al. **Tohoku J Exp Med** 1995 Nov;177(3):249–62

Methylmercury efflux from brain capillary endothelial cells is modulated by intracellular glutathione but not ATP. Kerper LE, et al. **Toxicol Appl Pharmacol** 1996 Dec; 141(2):526–31

Compartmentation of glutathione: implications for the study of toxicity and disease. Smith CV, et al. **Toxicol Appl Pharmacol** 1996 Sep;140(1):1–12 (82 ref.)

RADIATION EFFECTS

[The action of low doses of gamma irradiation on the function of the glutathione system in corn (Zea mays L.)] Marchenko MM, et al. **Ukr Biokhim Zh** 1996 Mar–Apr; 68(2):94–8 (Eng. Abstr.) **(Rus)**

SECRETION

Cysteine and glutathione secretion in response to protein disulfide bond formation in the ER. Carelli S, et al. **Science** 1997 Sep 12;277(5332):1681–4

THERAPEUTIC USE

Inhibition of murine AIDS by reduced glutathione. Palamara AT, et al. **AIDS Res Hum Retroviruses** 1996 Sep 20; 12(14):1373–81

Prevention of post–pump myocardial dysfunction by glutathione. Prasad K, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:400–13

Glutathione reduces the toxicity and improves quality of life of women diagnosed with ovarian cancer treated with cisplatin: results of a double–blind, randomised trial. Smyth JF, et al. **Ann Oncol** 1997 Jun;8(6):569–73

The effect of acute glutathione treatment on sorbitol level in erythrocytes from diabetic patients. Ciuchi E, et al. **Diabetes Metab** 1997 Feb;23(1):58–60

A novel approach to reduce the unwanted gastric side–effects of orally administered non–steroidal anti–inflammatory drugs in rats. Balint GA. **Exp Toxicol Pathol** 1997 Feb; 49(1–2):61–3

Hyperglycemia counterbalances the antihypertensive effect of glutathione in diabetic patients: evidence linking hypertension and glycemia through the oxidative stress in diabetes mellitus. Cerielo A, et al. **J Diabetes Complications** 1997 Jul–Aug;11(4):250–5

Photoprotective effect of esterified glutathione against ultraviolet B–induced sunburn cell formation in the hairless mice. Hanada K, et al. **J Invest Dermatol** 1997 May; 108(5):727–30

Glutathione inhibits experimental oral carcinogenesis, p53 expression, and angiogenesis. Schwartz JL, et al. **Nutr Cancer** 1996;26(2):229–36

Reduced intravenous glutathione in the treatment of early Parkinson's disease. Sechi G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1159–70

Effect of alcohol abuse and glutathione administration on the circulating levels of glutathione and on antipyrine metabolism in patients with alcoholic liver cirrhosis. Loguercio C, et al. **Scand J Clin Lab Invest** 1996 Aug; 56(5):441–7

[New therapy concepts in fibrosing lung diseases] Behr J. **Pneumologie** 1996 Sep;50(9):657–64 (87 ref.) **(Ger)**

[Glutathione chemoprotection therapy against CDDP–induced neurotoxicity in patients with invasive bladder cancer] Sumiyoshi Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1506–8 (Eng. Abstr.) **(Jpn)**

TOXICITY

Biosynthesis and cellular effects of toxic glutathione S–conjugates. Dekant W. **Adv Exp Med Biol** 1996; 387:297–312 (115 ref.)

Glutathione derivatives enhance adriamycin cytotoxicity in a human lung adenocarcinoma cell line. Nakanishi Y, et al. **Anticancer Res** 1997 May–Jun;17(3C):2129–34

Induction of mutagenic DNA damage by chromium (VI) and glutathione. Liu S, et al. **Environ Mol Mutagen** 1996; 28(2):71–9

URINE

Effects of acetylsalicylic acid, paracetamol and caffeine and a combination of these substances on kidney glutathione levels. Engelhardt G, et al. **Arzneimittelforschung** 1996 May;46(5):513–8

Mice with genetic gamma–glutamyl transpeptidase deficiency exhibit glutathionuria, severe growth failure, reduced life spans, and infertility. Harding CO, et al. **J Biol Chem** 1997 May 9;272(19):12560–7

GLUTATHIONE S–ALKYLTRANSFERASE see **GLUTATHIONE TRANSFERASES**

GLUTATHIONE S–ARYLTRANSFERASE see **GLUTATHIONE TRANSFERASES**

GLUTATHIONE S–EPOXIDETRANSFERASE see **GLUTATHIONE TRANSFERASES**

GLUTATHIONE INSULIN TRANSHYDROGENASE see **PROTEIN DISULFIDE REDUCTASE (GLUTATHIONE)**

GLUTATHIONE PEROXIDASE

ANALYSIS

Antioxidant enzymes in the human iris: an immunogold study. Marshall GE. **Br J Ophthalmol** 1997 Apr;81(4):314–8

Immunolocalization of cellular glutathione peroxidase in adult rat lungs and quantitative analysis after postembedding immunogold labeling. Asayama K, et al. **Histochem Cell Biol** 1996 May;105(5):383–9

An immunohistochemical analysis of antioxidant and glutathione S–transferase enzyme levels in normal and neoplastic human lung. Coursin DB, et al. **Histol Histopathol** 1996 Oct;11(4):851–60

Antioxidant–related enzymes in myocardial zones and human pericardial fluid in relation to the cause of death [letter] Lemke R, et al. **Int J Legal Med** 1997;110(4):238

Antioxidant–related enzymes in myocardial zones and human pericardial fluid in relation to the cause of death. Ramos V, et al. **Int J Legal Med** 1997;110(1):1–4

Subunit Ya–specific glutathione peroxidase activity toward cholesterol 7–hydroperoxides of glutathione S–transferases in cytosols from rat liver and skin. Hiratsuka A, et al. **J Biol Chem** 1997 Feb 21;272(8):4763–9

Extraocular, limb and diaphragm muscle group–specific antioxidant enzyme activity patterns in control and mdx mice. Ragusa RJ, et al. **J Neurol Sci** 1996 Aug;139(2):180–6

The selenium requirement for glutathione peroxidase mRNA level is half of the selenium requirement for glutathione peroxidase activity in female rats. Weiss SL, et al. **J Nutr** 1996 Sep;126(9):2260–7

Immunocytochemical localization of seleno–glutathione peroxidase in the adult mouse brain. Trépanier G, et al. **Neuroscience** 1996 Nov;75(1):231–43

Immunolocalization of glutathione–peroxidase (GSH–PO) in human adrenal gland––studies on adrenocortical adenomas associated with primary aldosteronism and Cushing's syndrome. Murakoshi M, et al. **Tokai J Exp Clin Med** 1995 Jul;20(2):89–97

ANTAGONISTS & INHIBITORS

TGF–beta1 triggers oxidative modifications and enhances apoptosis in HIT cells through accumulation of reactive oxygen species by suppression of catalase and glutathione peroxidase. Islam KN, et al. **Free Radic Biol Med** 1997; 22(6):1007–17

Glutathione consumption and glutathione peroxidase inactivation in fibroblast cell lines by 4–hydroxy–2–nonenal. Kinter M, et al. **Free Radic Biol Med** 1996;21(4):457–62

GLUTATHIONE PEROXIDASE

BIOSYNTHESIS

Renal cortical expression of mRNAs for antioxidant enzymes in normal and diabetic rats. Reddi AS, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):598–601

A novel type of glutathione peroxidase: expression and regulation during wound repair. Munz B, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):579–85

A cell culture model to study regulation of selenoprotein gene expression of selenium. Bermano G, et al. **Biochem Soc Trans** 1996 May;24(2):224S

Distribution of glutathione peroxidase mRNAs between free and cytoskeletal-bound polysomes in H4 hepatoma cells. Campbell GP, et al. **Biochem Soc Trans** 1996 May; 24(2):189S

Elevation of macrophage SeGSHPx gene expression prevents from its formation of foam cell and inhibits atherogenesis. Chen Y, et al. **Chin Med J (Engl)** 1996 Jan;109(1):51–4 (17 ref.)

The antioxidant enzymes glutathione peroxidase and catalase increase following traumatic brain injury in the rat. Goss JR, et al. **Exp Neurol** 1997 Jul;146(1):291–4

Effect of vitamin E on human glutathione peroxidase (GSH–PX1) expression in cardiomyocytes. Li RK, et al. **Free Radic Biol Med** 1996;21(4):419–26

Identification and characterization of antioxidant enzyme mRNAs in the rat epididymis. Zini A, et al. **Int J Androl** 1997 Apr;20(2):86–91

Selenoenzyme expression in thyroid and liver of second generation selenium- and iodine-deficient rats. Mitchell JH, et al. **J Mol Endocrinol** 1996 Jun;16(3):259–67

Selenium regulation of classical glutathione peroxidase expression requires the 3' untranslated region in Chinese hamster ovary cells. Weiss SL, et al. **J Nutr** 1997 Jul; 127(7):1304–10

Induction of antioxidant enzymes by dexamethasone in the adult rat lung. José HJ, et al. **Life Sci** 1997;60(23):2059–67

Effects of calorie restriction and aging on the expression of antioxidant enzymes and ubiquitin in the liver of Emory mice. Mura CV, et al. **Mech Ageing Dev** 1996 Oct 25; 91(2):115–29

Tissue localization and stage-specific expression of the phospholipid hydroperoxide glutathione peroxidase of Schistosoma mansoni. Roche C, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):187–95

BLOOD

The activities of superoxide dismutase, catalase, glutathione peroxidase and glutathione reductase in erythrocytes of rats with experimental neoplastic disease. Batko J, et al. **Acta Biochim Pol** 1996;43(2):403–5

The effect of iron supplementation on GSH levels, GSH–Px, and SOD activities of erythrocytes in L-thyroxine administration. Seymen O, et al. **Acta Med Okayama** 1997 Jun;51(3):129–33

Selenium supply and glutathione peroxidase activity in breastfed Polish infants. Trafikowska U, et al. **Acta Paediatr** 1996 Oct;85(10):1143–5

Selenium status is decreased in patients with intrinsic asthma. Kadrabová J, et al. **Biol Trace Elem Res** 1996 Jun; 52(3):241–8

Effect of supplementation with selenium on whole blood glutathione peroxidase activities and on plasma and tissue selenium concentrations in lambs. Molnár J, et al. **Biol Trace Elem Res** 1996 Dec;55(3):253–62

Antioxidant enzymes—superoxide dismutase and glutathione peroxidase—in haemodialyzed patients. Zima T, et al. **Blood Purif** 1996;14(3):257–61

Antioxidant deficiency following clam enterocystoplasty. Barrington JW, et al. **Br J Urol** 1997 Aug;80(2):238–42

The role of the oxidative state of glutathione and glutathione-related enzymes in anemia of hemodialysis patients. Paşaoğlu H, et al. **Clin Biochem** 1996 Dec; 29(6):567–72

Relationship between erythrocytes glutathione peroxidase and incidence of stroke lesion in the stroke-prone spontaneously hypertensive rat. Murakami T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S162–4

Erythrocyte enzymes decomposing reactive oxygen species and gestational age. Candlish JK, et al. **Early Hum Dev** 1995 Oct 2;43(2):145–50

The influence of atmospheric chromium on selenium content and glutathione peroxidase activity in blood of tannery workers. Gromadzińska J, et al. **Environ Health Perspect** 1996 Dec;104(12):1312–6

European Community—FLAIR common assay for whole-blood glutathione peroxidase (GSH–Px): results of an inter-laboratory trial. Belsten JL, et al. **Eur J Clin Nutr** 1995 Dec;49(12):921–7

Serum selenium, plasma glutathione (GSH) and erythrocyte glutathione peroxidase (GSH–Px)-levels in asymptomatic versus symptomatic human immunodeficiency virus-1 (HIV-1)-infection. Look MP, et al. **Eur J Clin Nutr** 1997 Apr;51(4):266–72

Evaluating the efficacy of selenium-enriched yeast and sodium selenite on tissue selenium retention and serum glutathione peroxidase activity in grower and finisher swine. Mahan DC, et al. **J Anim Sci** 1996 Dec; 74(12):2967–74

A simplified method for the estimation of glutathione peroxidase activity and selenium concentration in bovine blood. Kinoshita C, et al. **J Dairy Sci** 1996 Sep;79(9):1543–8

Overexpression of cellular glutathione peroxidase does not affect expression of plasma glutathione peroxidase or phospholipid hydroperoxide glutathione peroxidase in mice offered diets adequate or deficient in selenium. Cheng WH, et al. **J Nutr** 1997 May;127(5):675–80

Selenium and glutathione peroxidase reference values in whole blood and plasma of a reference population living in Valencia, Spain. Alegría A, et al. **J Trace Elem Med Biol** 1996 Dec;10(4):223–8

Selenium status and plasma glutathione peroxidase in patients with IgA nephropathy. Bellisola G, et al. **J Trace Elem Med Biol** 1996 Sep;10(3):189–96

Selenium and glutathione peroxidase activity in Hungarian children. Cser MA, et al. **J Trace Elem Med Biol** 1996 Sep;10(3):167–73

Human selenium supplementation as assessed by changes in blood selenium concentration and glutathione peroxidase activity. Nève J. **J Trace Elem Med Biol** 1995 Jul;9(2):65–73 (32 ref.)

Glutathione peroxidase, reduced glutathione, superoxide dismutase and catalase in red cells of patients with hairy cell leukemia. Arruda VR, et al. **Neoplasma** 1996; 43(2):99–102

Antioxidant enzymes and lipid peroxidation in patients with multiple myeloma. Zima T, et al. **Neoplasma** 1996; 43(2):69–73

Activity of the antioxidant enzymes superoxide dismutase and glutathione peroxidase in fetal erythrocytes. Zima T, et al. **Prenat Diagn** 1996 Dec;16(12):1083–5

[Adaptation of the measurement of plasma and erythrocyte glutathione peroxidase activity on Hitachi 911] Dever S, et al. **Ann Biol Clin (Paris)** 1996;54(5):199–202 (Eng. Abstr.) **(Fre)**

[Glutathione peroxidases: value of their determination in clinical biology] Richard MJ, et al. **Ann Biol Clin (Paris)** 1997 May–Jun;55(3):195–207 (82 ref.) (Eng. Abstr.) **(Fre)**

[The effect of garlic preparation alisat on the level of lipid peroxidation products, activity of various antioxidant enzymes, and blood level of lipoproteins in patients with atherosclerosis] Mikhin VP, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):502–4 **(Rus)**

[Intensity of lipid peroxidation processes and activity of antioxidant enzymes in erythrocytes during anemia in pregnancy] Riazantsev VV, et al. **Ukr Biokhim Zh** 1996 May–Jun;68(3):116–20 (Eng. Abstr.) **(Rus)**

[Levels of Cu, Zn, Se and their relation to levels of ceruloplasmin and the activity of antioxidative enzymes] Magálová T, et al. **Bratisl Lek Listy** 1997 Jan;98(1):8–11 (Eng. Abstr.) **(Slo)**

CHEMISTRY

Preparation of bifunctional enzyme with both superoxide dismutase and glutathione peroxidase activities by using chemical mutation. Luo G, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:50–5

The crystal structure of seleno-glutathione peroxidase from human plasma at 2.9 A resolution. Ren B, et al. **J Mol Biol** 1997 May 23;268(5):869–85

DEFICIENCY

Plasma glutathione peroxidase deficiency caused by renal dysfunction. Yoshimura S, et al. **Nephron** 1996;73(2):207–11

DRUG EFFECTS

Effects of fatty acids on human platelet glutathione peroxidase: possible role of oxidative stress [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1945] Lemaitre D, et al. **Biochem Pharmacol** 1997 Feb 21;53(4):479–86

Effect of probucol on mRNA expression of glomerular antioxidant enzymes in rat with subtotal nephrectomy. Tang Z, et al. **Chin Med J (Engl)** 1996 Oct;109(10):780–6

The oxidation of selenocysteine is involved in the inactivation of glutathione peroxidase by nitric oxide donor. Asahi M, et al. **J Biol Chem** 1997 Aug 1;272(31):19152–7

Mercuric chloride-induced reactive oxygen species and its effect on antioxidant enzymes in different regions of rat brain. Hussain S, et al. **J Environ Sci Health B** 1997 May; 32(3):395–409

Stobadine pretreatment enhances glutathione peroxidase activity in the heart of irradiated mice. Kováciková Z, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):241–3

Inactivation of glutathione peroxidase by benzaldehyde. Tabatabaie T, et al. **Toxicol Appl Pharmacol** 1996 Dec; 141(2):389–93

GENETICS

The Gpx1 gene encodes mitochondrial glutathione peroxidase in the mouse liver. Esworthy RS, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):59–63

In vitro expression of a mouse tissue specific glutathione-peroxidase-like protein lacking the selenocysteine can protect stably transfected mammalian cells against oxidative damage. Vernet P, et al. **Biochem Cell Biol** 1996;74(1):125–31

A novel type of glutathione peroxidase: expression and regulation during wound repair. Munz B, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):579–85

Molecular cloning and characterization of the epididymis-specific glutathione peroxidase-like protein secreted in the porcine epididymal fluid. Okamura N, et al. **Biochim Biophys Acta** 1997 Jul 19;1336(1):99–109

Structural organization, chromosomal localization, expression and phylogenetic evaluation of mouse glutathione peroxidase encoding genes. Dufaure JP, et al. **C R Acad Sci III** 1996 Jul;319(7):559–68 **(Eng, Fre)**

Comparison of age-related differences in expression of phospholipid hydroperoxide glutathione peroxidase mRNA and activity in various tissues of pigs. Lei XG, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 May; 117(1):109–14

Identification of a glutathione peroxidase homolog in Neisseria meningitidis. Aho EL, et al. **DNA Seq** 1995; 6(1):55–60

Schistosoma mansoni: the developmental regulation and immunolocalization of antioxidant enzymes. Mei H, et al. **Exp Parasitol** 1997 May;86(1):69–78

Antioxidant enzyme gene transcription in copper-deficient rat liver. Lai CC, et al. **Free Radic Biol Med** 1996; 21(2):233–40

Polymorphism and chromosomal localization of the GI-form of human glutathione peroxidase (GPX2) on 14q24.1 by in situ hybridization. Chu FF, et al. **Genomics** 1996 Mar 1;32(2):272–6

Comparative effects of exercise training on transcription of antioxidant enzyme and the activity in old rat heart. Somani SM, et al. **Indian J Physiol Pharmacol** 1996 Jul;40(3):205–12

Developmental expression of glutathione peroxidase, catalase, and manganese superoxide dismutase mRNAs during spermatogenesis in the mouse. Gu W, et al. **J Androl** 1996 May–Jun;17(3):256–62

Molecular cloning and functional expression of a cDNA for rat phospholipid hydroperoxide glutathione peroxidase: 3'-untranslated region of the gene is necessary for functional expression. Imai H, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1061–7

Transgenic mice overexpressing glutathione peroxidase are resistant to myocardial ischemia reperfusion injury. Yoshida T, et al. **J Mol Cell Cardiol** 1996 Aug; 28(8):1759–67

Cellular glutathione peroxidase knockout mice express normal levels of selenium-dependent plasma and phospholipid hydroperoxide glutathione peroxidases in various tissues. Cheng WH, et al. **J Nutr** 1997 Aug; 127(8):1445–50

The selenium requirement for glutathione peroxidase mRNA level is half of the selenium requirement for glutathione peroxidase activity in female rats. Weiss SL, et al. **J Nutr** 1996 Sep;126(9):2260–7

Selenium regulation of classical glutathione peroxidase expression requires the 3' untranslated region in Chinese hamster ovary cells. Weiss SL, et al. **J Nutr** 1997 Jul; 127(7):1304–10

Cu/Zn superoxide dismutase, catalase and glutathione peroxidase mRNA expression in the rat testis after surgical cryptorchidism and efferent duct ligation. Zini A, et al. **J Urol** 1997 Aug;158(2):659–63

The glutathione peroxidase gene, Gpx1, maps to mouse chromosome 9. Mehdizadeh S, et al. **Mamm Genome** 1996 Jun;7(6):465–6

Molecular characterization of the glutathione peroxidase gene of the human malaria parasite Plasmodium falciparum. Gamain B, et al. **Mol Biochem Parasitol** 1996 Jun; 78(1–2):237–48

Characterization of an androgen response element within the promoter of the epididymis-specific murine glutathione peroxidase 5 gene. Lareyre JJ, et al. **Mol Cell Endocrinol** 1997 Apr 25;129(1):33–46

Regulation of antioxidant enzyme expression by NGF. Sampath D, et al. **Neurochem Res** 1997 Apr;22(4):351–62

The human homologue of a bovine non-selenium glutathione peroxidase is a novel keratinocyte growth factor-regulated gene. Frank S, et al. **Oncogene** 1997 Feb 27;14(8):915–21

Heterologous expression of the cuticular-glutathione peroxidase of lymphatic filariae in an attenuated vaccine strain of Salmonella typhimurium abrogates H-2 restriction of specific antibody responses. Chacón MR, et al. **Parasite Immunol** 1996 Jun;18(6):307–16

Transcription and activity of antioxidant enzymes after ionizing irradiation in radiation-resistant and radiation-sensitive mice. Hardmeier R, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7572–6

IMMUNOLOGY

Heterologous expression of the cuticular-glutathione peroxidase of lymphatic filariae in an attenuated vaccine strain of Salmonella typhimurium abrogates H-2 restriction of specific antibody responses. Chacón MR, et al. **Parasite Immunol** 1996 Jun;18(6):307–16

ISOLATION & PURIFICATION

Purification and characterisation of chicken liver monomeric glutathione peroxidase. Miyazaki S, et al. **Br Poult Sci** 1996 Jul;37(3):651–60

Methods for purification of glutathione peroxidase and related enzymes. Toribio F, et al. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1–2):77–97 (227 ref.)

METABOLISM

Activity of glutathione-dependent enzymes in long term diabetes. I. Activity of glutathione S-transferase and glutathione peroxidase in the liver of alloxan induced diabetic rats. Suchocka Z, et al. **Acta Pol Pharm** 1995 May-Jun;52(3):207-11

Activity of glutathione-dependent enzymes in long term diabetes. II. Glutathione contents and activity of glutathione-dependent enzymes: S-transferase and peroxidase in the kidney cytosol of alloxan induced diabetic rats. Suchocka Z, et al. **Acta Pol Pharm** 1995 May-Jun; 52(3):213-7

Ebselen as a glutathione peroxidase mimic and as a scavenger of peroxynitrite. Sies H, et al. **Adv Pharmacol** 1997; 38:229-46 (105 ref.)

Extracellular glutathione peroxidase in human lung epithelial lining fluid and in lung cells. Avissar N, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L173-82

Prenatal hormones alter antioxidant enzymes and lung histology in rats with congenital diaphragmatic hernia. Ijsselstijn H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1059-65

Hyperoxia causes increases in antioxidant enzyme activity in fetal type II pneumocytes. Bhandari V, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:504-5

Brain superoxide dismutase, catalase, and glutathione peroxidase activities in amyotrophic lateral sclerosis. Przedborski S, et al. **Ann Neurol** 1996 Feb;39(2):158-65

Antioxidant enzyme activity in murine hematopoietic bone marrow following treatment with interleukin 1 alpha: influence of tumor. Johnke RM, et al. **Anticancer Res** 1997 May-Jun;17(3C):2169-74

Opposite regulation of tyrosinase and glutathione peroxidase by intracellular thiols in human melanoma cells. Benathan M. **Arch Dermatol Res** 1997 May;289(6):341-6

Import into mitochondria of phospholipid hydroperoxide glutathione peroxidase requires a leader sequence. Arai M, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):433-9

Seleno compounds and glutathione peroxidase catalyzed decomposition of S-nitrosothiols. Hou Y, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):88-93

Transforming growth factor beta is a modulator of platelet-derived growth factor action in vascular smooth muscle cells: a possible role for catalase activity and glutathione peroxidase activity. Nishio E, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):1-4

In vitro expression of a mouse tissue specific glutathione-peroxidase-like protein lacking the selenocysteine can protect stably transfected mammalian cells against oxidative damage. Vernet P, et al. **Biochem Cell Biol** 1996;74(1):125-31

Role of the 3' untranslated region in the regulation of cytosolic glutathione peroxidase and phospholipid-hydroperoxide glutathione peroxidase gene expression by selenium supply. Bermano G, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):891-5

Alpha-class isozymes of glutathione S-transferase in rat liver cytosol possess glutathione peroxidase activity toward phospholipid hydroperoxide. Sun Q, et al. **Biochem Mol Biol Int** 1996 May;39(2):343-52

Phospholipid hydroperoxide glutathione peroxidase (PHGPx) in rat testis nuclei is bound to chromatin. Godeas C, et al. **Biochem Mol Med** 1996 Dec;59(2):118-24

Rat testis mitochondrial phospholipid hydroperoxide glutathione peroxidase does not protect endogenous vitamin E against Fe2+-induced (lipo)peroxidation. Godeas C, et al. **Biochem Mol Med** 1996 Aug;58(2):221-6

The peroxidase activity of glutathione S-transferase A1-1 on hydroperoxy-phospholipids. Bao Y, et al. **Biochem Soc Trans** 1996 Aug;24(3):462S

Regulation of glutathione peroxidase (GSHPx) activity in human vascular endothelial cells by fatty acids. Crosby AJ, et al. **Biochem Soc Trans** 1996 May;24(2):176S

Selenocysteine tRNA[Ser]Sec levels and selenium-dependent glutathione peroxidase activity in mouse embryonic stem cells heterozygous for a targeted mutation in the tRNA[Ser]Sec gene. Chittum HS, et al. **Biochemistry** 1997 Jul 15;36(28):8634-9

Modulation of glutathione peroxidase activity in human vascular endothelial cells by fatty acids and the cytokine interleukin-1 beta. Crosby AJ, et al. **Biochim Biophys Acta** 1996 Oct 18;1303(3):187-92

Probing the presumed catalytic triad of selenium-containing peroxidases by mutational analysis of phospholipid hydroperoxide glutathione peroxidase (PHGPx). Maiorino M, et al. **Biol Chem Hoppe Seyler** 1995 Nov;376(11):651-60

Inhibitory effect of selenium and change of glutathione peroxidase activity on rat glioma. Zhang ZH, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):31-8

Tissue-specific modification of selenium concentration by acute and chronic dexamethasone administration in mice. Watanabe C, et al. **Br J Nutr** 1997 Sep;78(3):501-9

Purification and characterisation of chicken liver monomeric glutathione peroxidase. Miyazaki S, et al. **Br Poult Sci** 1996 Jul;37(3):651-60

Involvement of glutathione peroxidase and catalase in the disposal of exogenous hydrogen peroxide by cultured astroglial cells. Dringen R, et al. **Brain Res** 1997 Jun 6; 759(1):67-75

Elevated expression of glutathione peroxidase in PC12 cells results in protection against methamphetamine but not MPTP toxicity. Hom DG, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):154-60

Enhanced skin carcinogenesis in transgenic mice with high expression of glutathione peroxidase or both glutathione peroxidase and superoxide dismutase. Lu YP, et al. **Cancer Res** 1997 Apr 15;57(8):1468-74

Adaptation of lung antioxidants to cigarette smoking in humans. Hilbert J, et al. **Chest** 1996 Oct;110(4):916-20

Extracellular glutathione peroxidase and ascorbic acid in aqueous humor and serum of patients operated on for cataract. Haung W, et al. **Clin Chim Acta** 1997 May 28; 261(2):117-30

Reduced platelet glutathione peroxidase activity and serum selenium concentration in atopic asthmatic patients. Misso NL, et al. **Clin Exp Allergy** 1996 Jul;26(7):838-47

Comparison of age-related differences in expression of phospholipid hydroperoxide glutathione peroxidase mRNA and activity in various tissues of pigs. Lei XG, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 May; 117(1):109-14

A comparison of antioxidant enzyme activities in organ-cultured rhesus monkey lenses following peroxide challenge. Tumminia SJ, et al. **Curr Eye Res** 1996 Aug; 15(8):845-51

Glutathione peroxidase degrades intracellular hydrogen peroxide and thereby inhibits intracellular protein iodination in thyroid epithelium. Ekholm R, et al. **Endocrinology** 1997 Jul;138(7):2871-8

A new kinetic model for the mode of action of soluble and membrane-immobilized glutathione peroxidase from bovine erythrocytes--effects of selenium. Carsol MA, et al. **Eur J Biochem** 1997 Jul 1;247(1):248-55

Selenium-dependent peroxidases suppress 5-lipoxygenase activity in B-lymphocytes and immature myeloid cells. The presence of peroxidase-insensitive 5-lipoxygenase activity in differentiated myeloid cells. Werz O, et al. **Eur J Biochem** 1996 Nov 15;242(1):90-7

Nonsteroidal antiinflammatory drugs interact with horseradish peroxidase in an in vitro assay system for hydrogen peroxide scavenging. Parij N, et al. **Eur J Pharmacol** 1996 Sep 12;311(2-3):259-64

Oxidant-antioxidant balance in alveolar macrophages from newborn rats. Delacourt C, et al. **Eur Respir J** 1996 Dec; 9(12):2517-24

The contribution of GSH peroxidase-1, catalase and GSH to the degradation of H2O2 by the mouse lens. Spector A, et al. **Exp Eye Res** 1997 Mar;64(3):477-85

Reduction of thymine hydroperoxide by phospholipid hydroperoxide glutathione peroxidase and glutathione transferases. Bao Y, et al. **FEBS Lett** 1997 Jun 30; 410(2-3):210-2

Peripheral antioxidant enzyme activities and selenium in elderly subjects and in dementia of Alzheimer's type--place of the extracellular glutathione peroxidase. Ceballos-Picot I, et al. **Free Radic Biol Med** 1996;20(4):579-87

Increase in glutathione peroxidase activity in malaria parasite after selenium supplementation. Gamain B, et al. **Free Radic Biol Med** 1996;21(4):559-65

Role of glutathione peroxidase and phospholipid hydroperoxide glutathione peroxidase in the reduction of lysophospholipid hydroperoxides. Marinho HS, et al. **Free Radic Biol Med** 1997;22(5):871-83

Lipid peroxidation and activities of antioxidant enzymes in iron deficiency and effect of carcinogen feeding. Rao J, et al. **Free Radic Biol Med** 1996;21(1):103-8

Immunohistochemical localization and quantitative analysis of cellular glutathione peroxidase in foetal and neonatal rat tissues: fluorescence microscopy image analysis. Asayama K, et al. **Histochem J** 1996 Jan;28(1):63-71

Elevation in the ratio of Cu/Zn-superoxide dismutase to glutathione peroxidase activity induces features of cellular senescence and this effect is mediated by hydrogen peroxide. de Haan JB, et al. **Hum Mol Genet** 1996 Feb; 5(2):283-92

Expression and characterization of glutathione peroxidase activity in the human blood fluke Schistosoma mansoni. Mei H, et al. **Infect Immun** 1996 Oct;64(10):4299-306

Activities of superoxide dismutase and glutathione peroxidase enzymes in cancerous and non-cancerous human kidney tissues. Durak I, et al. **Int Urol Nephrol** 1997;29(1):5-11

Additive effect of alcohol and nicotine on lipid peroxidation and antioxidant defence mechanism in rats. Ashakumary L, et al. **J Appl Toxicol** 1996 Jul-Aug;16(4):305-8

Identification and characterization of a novel microsomal enzyme with glutathione-dependent transferase and peroxidase activities. Jakobsson PJ, et al. **J Biol Chem** 1997 Sep 5;272(36):22934-9

Homocyst(e)ine decreases bioavailable nitric oxide by a mechanism involving glutathione peroxidase. Upchurch GR Jr, et al. **J Biol Chem** 1997 Jul 4;272(27):17012-7

Time course of changes in antioxidant enzymes in human skin fibroblasts after UVA irradiation. Shindo Y, et al. **J Dermatol Sci** 1997 Mar;14(3):225-32

Impaired enzymatic antioxidant defense mechanism in cancerous human thyroid tissues. Durak I, et al. **J Endocrinol Invest** 1996 May;19(5):312-5

Roles of reactive oxygen species and antioxidant enzymes in murine daunomycin-induced nephropathy. Ohtake T, et al. **J Lab Clin Med** 1997 Jan;129(1):81-8

Energy stress-induced dopamine loss in glutathione peroxidase-overexpressing transgenic mice and in glutathione-depleted mesencephalic cultures. Zeevalk GD, et al. **J Neurochem** 1997 Jan;68(1):426-9

Study of the antioxidant enzymes in human brain tumors. Pu PY, et al. **J Neurooncol** 1996 Aug;29(2):121-8

Decreased cytochrome c oxidase activity but unchanged superoxide dismutase and glutathione peroxidase activities in the spinal cords of patients with amyotrophic lateral sclerosis. Fujita K, et al. **J Neurosci Res** 1996 Aug 1; 45(3):276-81

Glutathione peroxidase: a role for selenium (Rotruck 1972). Ahrens RA. **J Nutr** 1997 May;127(5 Suppl):1052S-1053S

Overexpression of cellular glutathione peroxidase does not affect expression of plasma glutathione peroxidase or phospholipid hydroperoxide glutathione peroxidase in mice offered diets adequate or deficient in selenium. Cheng WH, et al. **J Nutr** 1997 May;127(5):675-80

Oxidative defense enzyme activity and mRNA levels in lenses of diabetic rats. Khanna P, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):541-55

Effect of CPT-11 on lipid peroxide level in mouse tissues. Sadzuka Y, et al. **Jpn J Cancer Res** 1997 May;88(5):512-6

Decreased selenium concentration and glutathione peroxidase activity in blood and increase of these parameters in malignant tissue of lung cancer patients. Zachara BA, et al. **Lung** 1997;175(5):321-32

Lipid peroxidation and activity of antioxidative enzymes in the rat model of ozone therapy. Laszczyca P, et al. **Mater Med Pol** 1996 Oct-Dec;28(4):155-60

Enzymatic defenses of the rat heart against lipid peroxidation. Molina H, et al. **Mech Ageing Dev** 1997 Jul;97(1):1-7

Endogenous induction of transient oxidant-imbalances in Ehrlich cells as a possible trigger to fast tumor fluid accumulation. Schwartsburd PM, et al. **Med Oncol** 1995 Dec;12(4):203-7

Gender-related regional antioxidant profiles in the gastrointestinal tract of the rat. Moghadasian MH, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):43-9

Tissue and developmental distribution, dependence upon testicular factors and attachment to spermatozoa of GPX5, a murine epididymis-specific glutathione peroxidase. Vernet P, et al. **Mol Reprod Dev** 1997 May;47(1):87-98

Glutathione and glutathione metabolizing enzymes in tissues and blood of breast cancer patients. Gromadzińska J, et al. **Neoplasma** 1997;44(1):45-51

Effect of dietary genistein on antioxidant enzyme activities in SENCAR mice. Cai Q, et al. **Nutr Cancer** 1996;25(1):1-7

Effects of n-3 and n-6 fatty acids on plasma eicosanoids and liver antioxidant enzymes in rats receiving total parenteral nutrition. Yeh SL, et al. **Nutrition** 1997 Jan;13(1):32-6

Role of catalase in retinal antioxidant defence system: its comparative study among rabbits, guinea pigs, and rats. Ohta Y, et al. **Ophthalmic Res** 1996;28(6):336-42

Nitrofurantoin-induced hepatic and pulmonary biochemical changes in mice fed different vitamin E doses. Adam A, et al. **Pharmacol Toxicol** 1996 Dec;79(6):334-9

Activity of placental glutathione peroxidase and superoxide dismutase in cows with and without retained fetal membranes. Kankofer M, et al. **Placenta** 1996 Nov; 17(8):591-4

Peroxynitrite, the coupling product of nitric oxide and superoxide, activates prostaglandin biosynthesis. Landino LM, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24; 93(26):15069-74

Mitochondrial lipid peroxides and antioxidant enzymes in the liver following phorone-induced glutathione depletion. Mehmetçik G, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jun;96(3):353-6

Hepatic and erythrocytic glutathione peroxidase activity in liver diseases. Cordero R, et al. **Rev Esp Fisiol** 1996 Sep; 52(3):167-72

Impaired antioxidant defense at the onset of psychosis. Mukerjee S, et al. **Schizophr Res** 1996 Mar;19(1):19-26

Immunolocalization of glutathione-peroxidase (GSH-PO) in the rat ventral prostate: effects of castration and administration of testosterone. Murakoshi M, et al. **Tokai J Exp Clin Med** 1996 Jun;21(2):55-9

Glutathione peroxidase and catalase modulate the genotoxicity of arsenite. Wang TS, et al. **Toxicology** 1997 Sep 5;121(3):229-37

Reactive oxygen species mediate the effects of cyclosporine A on human cultured mesangial cells. Pérez de Lema G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1241-3

Dietary selenium increases cellular glutathione peroxidase activity and reduces the enhanced susceptibility to lipid peroxidation of plasma and low-density lipoprotein in kidney transplant recipients. Hussein O, et al. **Transplantation** 1997 Mar 15;63(5):679-85

Effects of fraxetin on glutathione redox status. Martín-Aragón S, et al. **Z Naturforsch [C]** 1997 Jan-Feb; 52(1-2):55-9

[Selenium, glutathione peroxidase, peroxides and platelet functions] Vitoux D, et al. **Ann Biol Clin (Paris)** 1996; 54(5):181-7 (35 ref.) (Eng. Abstr.) **(Fre)**

[Metabolism and antioxidant function of glutathione] Gérard-Monnier D, et al. **Pathol Biol (Paris)** 1996 Jan; 44(1):77-85 (65 ref.) (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Thyroidal extracellular glutathione peroxidase: a potential regulator of thyroid-hormone synthesis. Howie AF, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):713-7

[Pharmacological modulation of alterations of endothelial cytoskeleton induced by hydrogen peroxyde and by

GLUTATHIONE PEROXIDASE

TNF-alpha] d'Alessio P, et al.
C R Seances Soc Biol Fil 1996;190(2-3):289-97 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Effects of antioxidant enzyme modulations on interleukin-1-induced nuclear factor kappa B activation. Renard P, et al. **Biochem Pharmacol** 1997 Jan 24; 53(2):149-60

Mice deficient in cellular glutathione peroxidase develop normally and show no increased sensitivity to hyperoxia. Ho YS, et al. **J Biol Chem** 1997 Jun 27;272(26):16644-51

Inhibition of astrocyte glutamate uptake by reactive oxygen species: role of antioxidant enzymes. Sorg O, et al. **Mol Med** 1997 Jul;3(7):431-40

Peroxide-induced damage in lenses of transgenic mice with deficient and elevated levels of glutathione peroxidase. Reddy VN, et al. **Ophthalmologica** 1997;211(3):192-200

SECRETION

A new route to thyrotoxicosis? Thomas G.
Hum Exp Toxicol 1995 Dec;14(12):994-5

GLUTATHIONE PROTEIN DISULFIDE OXIDOREDUCTASE see **PROTEIN DISULFIDE REDUCTASE (GLUTATHIONE)**

GLUTATHIONE REDUCTASE

ANALYSIS

Method for detecting glutathione reductase activity on native activity gels which eliminates the background diaphorase activity. Okpodu CM, et al. **Anal Biochem** 1997 Jan 15; 244(2):410-3

A high-sensitivity, single-gel, polyacrylamide gel electrophoresis method for the quantitative determination of glutathione reductases. Ye B, et al. **Anal Biochem** 1997 Mar 15;246(2):159-65

Postnatal developmental profiles of antioxidant enzymes in heart. Maulik N, et al. **Ann N Y Acad Sci** 1996 Sep 30; 793:439-48

Immunolocalization of glutathione reductase in the murine brain. Knollema S, et al. **J Comp Neurol** 1996 Sep 16; 373(2):157-72

Extraocular, limb and diaphragm muscle group-specific antioxidant enzyme activity patterns in control and mdx mice. Ragusa RJ, et al. **J Neurol Sci** 1996 Aug;139(2):180-6

[The effect of different high riboflavin supplements during pregnancy and lactation on performance and erythrocyte glutathione reductase activity of rats] Hirschvogl G, et al. **Arch Tierernahr** 1997;50(3):245-56 (Eng. Abstr.) **(Ger)**

ANTAGONISTS & INHIBITORS

Inactivation of glutathione reductase by 4-hydroxynonenal and other endogenous aldehydes. Vander Jagt DL, et al. **Biochem Pharmacol** 1997 Apr 25;53(8):1133-40

Carbamoylation of glutathione reductase by N,N-bis(2-chloroethyl)-N- nitrosourea associated with inhibition of multidrug resistance protein (MRP) function. Vanhoefer U, et al. **Biochem Pharmacol** 1997 Mar 21; 53(6):801-9

Charge is the major discriminating factor for glutathione reductase versus trypanothione reductase inhibitors. Faerman CH, et al. **Bioorg Med Chem** 1996 Aug; 4(8):1247-53

Enzymatic antioxidants in erythrocytes following heavy metal exposure: possible role in early diagnosis of poisoning. Gupta A, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):198-205

Comparative inhibition of yeast glutathione reductase by arsenicals and arsenothiols. Styblo M, et al. **Chem Res Toxicol** 1997 Jan;10(1):27-33

Inhibition of glutathione reductase by dinitrosyl-iron-dithiolate complex. Boese M, et al. **J Biol Chem** 1997 Aug 29;272(35):21767-73

Inactivation of yeast glutathione reductase by O-phthalaldehyde. Pandey A, et al. **J Enzyme Inhib** 1996 Oct;11(2):141-9

Sodium valproate, an anticonvulsant drug, stimulates human immunodeficiency virus type 1 replication independently of glutathione levels. Moog C, et al. **J Gen Virol** 1996 Sep; 77 (Pt 9):1993-9

BLOOD

The activities of superoxide dismutase, catalase, glutathione peroxidase and glutathione reductase in erythrocytes of rats with experimental neoplastic disease. Batko J, et al. **Acta Biochim Pol** 1996;43(2):403-5

The role of the oxidative state of glutathione and glutathione-related enzymes in anemia of hemodialysis patients. Paşaoğlu H, et al. **Clin Biochem** 1996 Dec; 29(6):567-72

Vitamin dependent erythrocyte enzymes in newborns in relation to gestational age and birth weight. Ramos JL, et al. **J Perinat Med** 1996;24(3):221-5

[Intensity of lipid peroxidation processes and activity of antioxidant enzymes in erythrocytes during anemia in pregnancy] Riazantsev VV, et al. **Ukr Biokhim Zh** 1996 May-Jun;68(3):116-20 (Eng. Abstr.) **(Rus)**

CHEMISTRY

The novel oxidoreductase KDRF (KM-102-derived reductase-like factor) is identical with human thioredoxin reductase [letter] Miranda-Vizuete A, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):287-8

Thermal denaturation of glutathione reductase from cyanobacterium Spirulina maxima. Rojo-Domínguez A, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):631-9

Isocyanate binding to yeast glutathione reductase measured by fluorescence spectroscopy. Baylor KJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):47S

Glutathione reductase turned into trypanothione reductase: structural analysis of an engineered change in substrate specificity. Stoll VS, et al. **Biochemistry** 1997 May 27; 36(21):6437-47

DEFICIENCY

[Thalassemia and enzyme deficiencies in mentally retarded and autistic persons (letter)] Casado A, et al. **Sangre (Barc)** 1995 Dec;40(6):519-23 **(Spa)**

DRUG EFFECTS

Glutathione-glutathione reductase system and lipid peroxidation in Saccharomyces cerevisiae under alcohol stress. Gupta S, et al. **Acta Microbiol Immunol Hung** 1996; 43(1):33-8

Bovine and human alpha-crystallins as molecular chaperones: prevention of the inactivation of glutathione reductase by fructation. Blakytny R, et al. **Exp Eye Res** 1997 Jun; 64(6):1051-8

GENETICS

Haplotypes of restriction polymorphisms as informative genetic markers at the ovine glutathione reductase (GSR) locus. Phua SH, et al. **Anim Genet** 1996 Apr;27(2):122-3

Molecular organization of the glutathione reductase gene in Drosophila melanogaster. Candas M, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):323-34

Gene structure for mouse glutathione reductase, including a putative mitochondrial targeting signal. Tamura T, et al. **Biochem Biophys Res Commun** 1997 Aug 18; 237(2):419-22

Molecular characterization and expression of Onchocerca volvulus glutathione reductase. Müller S, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):645-51

Antioxidant enzymes and atherosclerosis in Japanese quail: heritability and genetic correlation estimates. Cheng KM, et al. **Can J Cardiol** 1997 Jul;13(7):669-76

Comparative effects of exercise training on transcription of antioxidant enzyme and the activity in old rat heart. Somani SM, et al. **Indian J Physiol Pharmacol** 1996 Jul;40(3):205-12

Cloning and characterization of a novel oxidoreductase KDRF from a human bone marrow-derived stromal cell line KM-102. Koishi R, et al. **J Biol Chem** 1997 Jan 24; 272(4):2570-7

Isolation, expression, and regulation of the pgr1(+) gene encoding glutathione reductase absolutely required for the growth of Schizosaccharomyces pombe. Lee J, et al. **J Biol Chem** 1997 Sep 12;272(37):23042-9

Yeast glutathione reductase is required for protection against oxidative stress and is a target gene for yAP-1 transcriptional regulation. Grant CM, et al. **Mol Microbiol** 1996 Jul;21(1):171-9

ISOLATION & PURIFICATION

Methods for purification of glutathione peroxidase and related enzymes. Toribio F, et al. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1-2):77-97 (227 ref.)

METABOLISM

Prenatal hormones alter antioxidant enzymes and lung histology in rats with congenital diaphragmatic hernia. Ijsselstijn H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1059-65

Hyperoxia causes increases in antioxidant enzyme activity in fetal type II pneumocytes. Bhandari V, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:504-5

Glutathione reductase activity, riboflavin status, and disease activity in rheumatoid arthritis. Mulherin DM, et al. **Ann Rheum Dis** 1996 Nov;55(11):837-40

Isocyanate binding to yeast glutathione reductase measured by fluorescence spectroscopy. Baylor KJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):47S

Isocyanate inactivation of yeast glutathione reductase & its modulation by oxidised glutathione and NADPH. Baylor KJ, et al. **Biochem Soc Trans** 1996 May;24(2):325S

Manipulation of glutathione metabolism in transgenic plants. Creissen G, et al. **Biochem Soc Trans** 1996 May;24(2):465-9 (28 ref.)

Stress tolerance of transgenic Nicotiana tabacum with enhanced activities of glutathione reductase and superoxide dismutase. Tanaka K, et al. **Biochem Soc Trans** 1996 May; 24(2):200S

Depletion of brain glutathione results in a decrease of glutathione reductase activity; an enzyme susceptible to oxidative damage. Barker JE, et al. **Brain Res** 1996 Apr 15;716(1-2):118-22

Denaturation and reactivation of dimeric human glutathione reductase--an assay for folding inhibitors. Nordhoff A, et al. **Eur J Biochem** 1997 Apr 15;245(2):273-82

Use of transgenic plants to study antioxidant defenses. Allen RD, et al. **Free Radic Biol Med** 1997;23(3):473-9 (39 ref.)

Peripheral antioxidant enzyme activities and selenium in elderly subjects and in dementia of Alzheimer's type--place of the extracellular glutathione peroxidase. Ceballos-Picot I, et al. **Free Radic Biol Med** 1996;20(4):579-87

Sensitivity of protein sulfhydryl repair enzymes to oxidative stress. Starke DW, et al. **Free Radic Biol Med** 1997; 23(3):373-84

Oxy free radical system in heart failure and therapeutic role of oral vitamin E. Ghatak A, et al. **Int J Cardiol** 1996 Dec 6;57(2):119-27

Inactivation of yeast glutathione reductase by O-phthalaldehyde. Pandey A, et al. **J Enzyme Inhib** 1996 Oct;11(2):141-9

Comparison of HPLC and enzymatic recycling assays for the measurement of oxidized glutathione in rat brain. Sian J, et al. **J Pharm Pharmacol** 1997 Mar;49(3):332-5

Recombinant putative glutathione reductase of Plasmodium falciparum exhibits thioredoxin reductase activity. Müller S, et al. **Mol Biochem Parasitol** 1996 Oct 1;80(2):215-9

A glutathione reductase mutant of yeast accumulates high levels of oxidized glutathione and requires thioredoxin for growth. Muller EG. **Mol Biol Cell** 1996 Nov;7(11):1805-13

Gender-related regional antioxidant profiles in the gastrointestinal tract of the rat. Moghadasian MH, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):43-9

Yeast glutathione reductase is required for protection against oxidative stress and is a target gene for yAP-1 transcriptional regulation. Grant CM, et al. **Mol Microbiol** 1996 Jul;21(1):171-9

Stationary-phase induction of GLR1 expression is mediated by the yAP-1 transcriptional regulatory protein in the yeast Saccharomyces cerevisiae. Grant CM, et al. **Mol Microbiol** 1996 Nov;22(4):739-46

Effect of dietary genistein on antioxidant enzyme activities in SENCAR mice. Cai Q, et al. **Nutr Cancer** 1996;25(1):1-7

The mechanism of thioredoxin reductase from human placenta is similar to the mechanisms of lipoamide dehydrogenase and glutathione reductase and is distinct from the mechanism of thioredoxin reductase from Escherichia coli. Arscott LD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3621-6

Peroxynitrite modification of glutathione reductase: modeling studies and kinetic evidence suggest the modification of tyrosines at the glutathione disulfide binding site. Francescutti D, et al. **Protein Eng** 1996 Feb;9(2):189-94

Effects of fraxetin on glutathione redox status. Martín-Aragón S, et al. **Z Naturforsch [C]** 1997 Jan-Feb; 52(1-2):55-9

[Metabolism and antioxidant function of glutathione] Gérard-Monnier D, et al. **Pathol Biol (Paris)** 1996 Jan; 44(1):77-85 (65 ref.) (Eng. Abstr.) **(Fre)**

[Effect of co-planar polychlorinated biphenyl on the hepatic glutathione peroxidase redox system in rats and guinea pigs] Hori M, et al. **Fukuoka Igaku Zasshi** 1997 May;88(5):144-8 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Effects of antioxidant enzyme modulations on interleukin-1-induced nuclear factor kappa B activation. Renard P, et al. **Biochem Pharmacol** 1997 Jan 24; 53(2):149-60

GLUTATHIONE SYNTHETASE

ANTAGONISTS & INHIBITORS

Effect of methionine sulfoximine on nitrogen metabolism and externally supplied ammonium assimilation in kidney bean. Sadunishvili T, et al. **Ecotoxicol Environ Saf** 1996 Jun; 34(1):70-5

BIOSYNTHESIS

Induction of glutathione synthetase by 1,10-phenanthroline. Sun Y. **FEBS Lett** 1997 May 12;408(1):16-20

CHEMISTRY

Nicked multifunctional loop of glutathione synthetase still protects the catalytic intermediate. Tanaka T, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):151-6

Identification of an essential cysteine residue in human glutathione synthase. Gali RR, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):207-10

Identification of a putative flexible loop in Arabidopsis glutathione synthetase. Wang CL, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):241-4

Glutathione synthetase: similarities of the proteins from Schizosaccharomyces pombe and Arabidopsis thaliana. Wang CL, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):563-6

A pseudo-michaelis quaternary complex in the reverse reaction of a ligase: structure of Escherichia coli B glutathione synthetase complexed with ADP, glutathione, and sulfate at 2.0 A resolution. Hara T, et al. **Biochemistry** 1996 Sep 17;35(37):11967-74

Crystal structure of glutathione synthetase at optimal pH: domain architecture and structural similarity with other proteins. Matsuda K, et al. **Protein Eng** 1996 Dec; 9(12):1083-92

DEFICIENCY

Effect of decreased glutathione levels in hereditary glutathione synthetase deficiency on dibromoethane-induced genotoxicity in human fibroblasts. DeLeve LD. **Mutat Res** 1997 Mar 17;389(2-3):291-7

DRUG EFFECTS

Modification of Escherichia coli B glutathione synthetase with polyethylene glycol for clinical application to enzyme replacement therapy for glutathione deficiency. Inoue Y, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):663-8

GENETICS

apd1+, a gene required for red pigment formation in ade6 mutants of Schizosaccharomyces pombe, encodes an enzyme required for glutathione biosynthesis: a role for glutathione and a glutathione-conjugate pump. Chaudhuri B, et al. **Genetics** 1997 Jan;145(1):75-83

The gene encoding human glutathione synthetase (GSS) maps to the long arm of chromosome 20 at band 11.2. Webb GC, et al. **Genomics** 1995 Dec 10;30(3):617-9

Missense mutations in the human glutathione synthetase gene result in severe metabolic acidosis, 5-oxoprolinuria, hemolytic anemia and neurological dysfunction. Dahl N, et al. **Hum Mol Genet** 1997 Jul;6(7):1147-52

Mutations in the glutathione synthetase gene cause 5-oxoprolinuria. Shi ZZ, et al. **Nat Genet** 1996 Nov; 14(3):361-5

Cloning of the cDNA and genomic clones for glutathione synthetase from Arabidopsis thaliana and complementation of a gsh2 mutant in fission yeast. Wang CL, et al. **Plant Mol Biol** 1996 Sep;31(6):1093-104

METABOLISM

A pseudo-michaelis quaternary complex in the reverse reaction of a ligase: structure of Escherichia coli B glutathione synthetase complexed with ADP, glutathione, and sulfate at 2.0 A resolution. Hara T, et al. **Biochemistry** 1996 Sep 17;35(37):11967-74

THERAPEUTIC USE

Modification of Escherichia coli B glutathione synthetase with polyethylene glycol for clinical application to enzyme replacement therapy for glutathione deficiency. Inoue Y, et al. **Clin Diagn Lab Immunol** 1996 Nov;3(6):663-8

GLUTATHIONE TRANSFERASES

Glutathione S-transferase fusion proteins as an affinity reagent for rapid isolation of specific sequence directly from genomic DNA. Majka J, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2537-8

ADMINISTRATION & DOSAGE

Mucosal vaccination against schistosomiasis using liposome-associated Sm 28 kDa glutathione S-transferase. Ivanoff N, et al. **Vaccine** 1996 Aug;14(12):1123-31

ANALYSIS

Pi-class glutathione-S-transferase-positive hepatocytes in aging B6C3F1 mice undergo apoptosis induced by dietary restriction. Muskhelishvili L, et al. **Am J Pathol** 1996 Nov; 149(5):1585-91

Glutathione S-transferases in gastric carcinomas and in adjacent normal gastric epithelium: immunohistochemical and biochemical analyses. Schipper DI, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3721-4

Purification and characterization of a new glutathione S-transferase, class theta, from human erythrocytes. Schröder KR, et al. **Arch Toxicol** 1996;70(9):559-66

Membrane topology of recombinant rat liver microsomal glutathione transferase expressed in E. coli. Raza H, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):165-70

Subunit diversity and tissue distribution of human glutathione S-transferases: interpretations based on electrospray ionization-MS and peptide sequence-specific antisera. Rowe JD, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):481-6

Antioxidant enzymes in the human iris: an immunogold study. Marshall GE. **Br J Ophthalmol** 1997 Apr;81(4):314-8

Iron promotes DEN initiated GST-P foci in rat liver. Carthew P, et al. **Carcinogenesis** 1997 Mar;18(3):599-603

The effect of two periods of short-term fasting during the promotion stage of hepatocarcinogenesis in rats: the role of apoptosis and cell proliferation. Hikita H, et al. **Carcinogenesis** 1997 Jan;18(1):159-66

Immunolocalization of microsomal glutathione S-transferase in rat tissues. Otieno MA, et al. **Drug Metab Dispos** 1997 Jan;25(1):12-20

Immunohistochemical analysis of glutathione S-transferase mu expression in ovarian tumors. Matsumoto T, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun;73(2):171-6

Glutathione, glutathione S-transferase alpha and pi, and aldehyde dehydrogenase content in relationship to drug resistance in ovarian cancer. Tanner B, et al. **Gynecol Oncol** 1997 Apr;65(1):54-62

An immunohistochemical analysis of antioxidant and glutathione S-transferase enzyme levels in normal and neoplastic human lung. Coursin DB, et al. **Histol Histopathol** 1996 Oct;11(4):851-60

Glutathione S-transferase expression in malignant mesothelioma and non-neoplastic mesothelium: an immunohistochemical study. Segers K, et al. **J Cancer Res Clin Oncol** 1996;122(10):619-24

Expression of p53, glutathione S-transferase-pi, and Bcl-2 proteins and benefit from adjuvant radiotherapy in breast cancer [see comments] Silvestrini R, et al. **J Natl Cancer Inst** 1997 May 7;89(9):639-45. Comment in: J Natl Cancer Inst 1997 May 7;89(9):605-7.

Sequential expression of placental glutathione S-transferase (GST-P) during DMBA-induced hamster buccal pouch squamous cell carcinogenesis. Chen YK, et al. **J Oral Pathol Med** 1996 Aug;25(7):388-94

Immunological characteristics and localization of the Trichinella spiralis glutathione S-transferase. Rojas J, et al. **J Parasitol** 1997 Aug;83(4):630-5

S-methylcysteine and cysteine are inhibitors of induction of glutathione S-transferase placental form-positive foci during initiation and promotion phases of rat hepatocarcinogenesis. Takada N, et al. **Jpn J Cancer Res** 1997 May;88(5):435-42

Multifactorial drug-resistance phenomenon in acute leukemias: impact of P170-MDR1, LRP56 protein, glutathione-transferases and metallothionein systems on clinical outcome. Goasguen JE, et al. **Leuk Lymphoma** 1996 Nov;23(5-6):567-76

Prognostic significance of the expressions of metallothionein, glutathione-S-transferase-pi, and P-glycoprotein in curatively resected gastric cancer. Monden N, et al. **Oncology** 1997 Sep-Oct;54(5):391-9

Enhancement of rat liver cell foci development by combined treatment with heterocyclic amines at low doses. Ito N, et al. **Princess Takamatsu Symp** 1995;23:251-9

Immunohistochemical demonstration of the gap junctional protein connexin 32 and proliferating cell nuclear antigen in glutathione S-transferase placental form-negative lesions of rat liver induced by diethylnitrosamine and clofibrate. Ito S, et al. **Toxicol Pathol** 1996 Nov-Dec;24(6):690-5

Viability assessment of non-heart-beating donor kidneys by alpha glutathione S-transferase in the machine perfusate. Kievit JK, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1381-3

Glutathione S-transferase as predictor of functional outcome in transplantation of machine-preserved non-heart-beating donor kidneys. Daemen JW, et al. **Transplantation** 1997 Jan 15;63(1):89-93

Glutathione S-transferase pi-class as a tumour marker in lingual preneoplastic and neoplastic lesions of rats and humans. Li TJ, et al. **Virchows Arch** 1997 Jul;431(1):37-43

[Glutathione S-transferase mu 1 (GSTM1): susceptibility gene of breast cancer] Fontana X, et al. **Bull Cancer** 1997 Jan;84(1):35-40 (56 ref.) (Eng. Abstr.) **(Fre)**

[An immunohistological study on expression of glutathione S-transferase pi (form) in human endometrial carcinoma] Satoh T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb;48(2):133-8 (Eng. Abstr.) **(Jpn)**

[An immunohistological study on expression of glutathione S-transferase pi (form) in dysplastic and neoplastic human uterine cervix lesions] Satoh T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Jul;48(7):522-8 (Eng. Abstr.) **(Jpn)**

[Expression of glutathione S-transferase pi and numerical aberration of chromosome 11 in human ovarian cancer as a prognostic indicator] Yokoyama Y, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb;48(2):118-24 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Glutathione derivatives enhance adriamycin cytotoxicity in a human lung adenocarcinoma cell line. Nakanishi Y, et al. **Anticancer Res** 1997 May-Jun;17(3C):2129-34

Phosphono analogues of glutathione as new inhibitors of glutathione S-transferases. Kunze T. **Arch Pharm (Weinheim)** 1996 Nov;329(11):503-9

Pentachlorophenol enhances 9-hydroxybenzo [a] pyrene-induced hepatic DNA adduct formation in vivo and inhibits microsomal epoxide hydrolase and glutathione S-transferase activities in vitro: likely inhibition of epoxide detoxication by pentachlorophenol. Moorthy B, et al. **Arch Toxicol** 1996;70(11):696-703

Epitope mapping of a monoclonal antibody to human glutathione transferase P1-1 the binding of which is inhibited by glutathione. Takahata T, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):531-6

Pharmacological modulation of human platelet leukotriene C4-synthase [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1946] Sala A, et al. **Biochem Pharmacol** 1997 Mar 21;53(6):905-8

Inhibition of glutathione S-transferase activity in human melanoma cells by alpha,beta-unsaturated carbonyl derivatives. Effects of acrolein, cinnamaldehyde, citral, crotonaldehyde, curcumin, ethacrynic acid, and trans-2-hexenal. Iersel ML, et al. **Chem Biol Interact** 1996 Oct 21;102(2):117-32

Inhibition of human placenta glutathione transferase P1-1 by the antibiotic calvatic acid and its diazocyanide analogue--evidence for multiple catalytic intermediates. Antonini G, et al. **Eur J Biochem** 1997 May 1;245(3):663-7

Class-pi glutathione S-transferase is unable to regain its native conformation after oxidative inactivation by hydrogen peroxide. Sluis-Cremer N, et al. **Eur J Biochem** 1996 Dec 1;242(2):301-7

Change of glutathione S-transferases in the skin by ultraviolet B irradiation. Seo KI, et al. **J Dermatol Sci** 1996 Nov; 13(2):153-60

Inhibition of the pharmacological actions of glyceryl trinitrate after the electroporetic delivery of a glutathione S-transferase inhibitor. Simon WC, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1535-40

Inhibition of human glutathione S-transferases by basic triphenylmethane dyes. Glanville SD, et al. **Life Sci** 1997; 60(18):1535-44

[Selective inhibition by N-heterylazymines of different types of activity of glutathione transferase from rat liver] Stulovskii AV, et al. **Dokl Akad Nauk** 1992;325(4):857-60 **(Rus)**

BIOSYNTHESIS

Effects of ligation, orchidectomy, and hypophysectomy on expression of the Yf subunit of GST-P in principal and basal cells of the adult rat epididymis and on basal cell shape and overall arrangement. Hermo L, et al. **Anat Rec** 1996 Jan;244(1):59-69

Glutathione S-transferases of female A/J mouse liver and forestomach and their differential induction by anti-carcinogenic organosulfides from garlic. Hu X, et al. **Arch Biochem Biophys** 1996 Dec 15;336(2):199-214

Glutathione S-transferases of female A/J mouse lung and their induction by anticarcinogenic organosulfides from garlic. Hu X, et al. **Arch Biochem Biophys** 1997 Apr 15; 340(2):279-86

Cellular response to the redox active lipid peroxidation products: induction of glutathione S-transferase P by 4-hydroxy-2-nonenal. Fukuda A, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):505-9

Role of posttranscriptional processes in the regulation of glutathione S-transferase P1 gene expression in human breast cancer cells. Jhaveri MS, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):729-34

Structure and expression of a cluster of glutathione S-transferase genes from a marine fish, the plaice (Pleuronectes platessa). Leaver MJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):405-12

Quantitative profiling of tissue- and gender-related expression of glutathione S-transferase isoenzymes in the mouse. Mitchell AE, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):207-16

Transcriptional and post-transcriptional mechanisms can regulate cell-specific expression of the human Pi-class glutathione S-transferase gene. Moffat GJ, et al. **Biochem J** 1997 May 15;324 (Pt 1):91-5

Glutathione S-transferase class Kappa: characterization by the cloning of rat mitochondrial GST and identification of a human homologue. Pemble SE, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):749-54

Cloning and characterization of two glutathione S-transferases from a DDT-resistant strain of Anopheles gambiae. Ranson H, et al. **Biochem J** 1997 May 15;324 (Pt 1):97-102

Comparison of the mRNA sequences for Pi class glutathione transferases in different hamster species and the corresponding enzyme activities with anti-benzo[a]pyrene-7,8-dihydrodiol 9,10-epoxide. Swedmark S, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):533-8

Expression of LTC4 synthase during the development of eosinophils in vitro from cord blood progenitors. Boyce JA, et al. **Blood** 1996 Dec 1;88(11):4338-47

Effects of carbon tetrachloride administration on initiation of liver cell foci by the non-hepatocarcinogens N-methyl-N'-nitro-N-nitrosoguanidine (MNNG) and benzo(a)pyrene (B(a)P). Kobayashi K, et al. **Cancer Lett** 1997 Sep 16;118(1):55-60

Modulatory potential of smokeless tobacco on the garlic, mace or black mustard-altered hepatic detoxication system enzymes, sulfhydryl content and lipid peroxidation in murine system. Singh A, et al. **Cancer Lett** 1997 Sep 16; 118(1):109-14

Effect of the separate and combined administration of mestranol and phenobarbital on the development of altered hepatic foci expressing placental form of glutathione S-transferase in the rat. Dragan YP, et al. **Carcinogenesis** 1996 Sep;17(9):2043-52

Reduction of glutathione S-transferase P-form mRNA expression in remodeling nodules in rat liver revealed by in situ hybridization. Imai T, et al. **Carcinogenesis** 1997 Mar; 18(3):545-51

Placental glutathione S-transferase (GST-P) induction as a potential mechanism for the anti-carcinogenic effect of the coffee-specific components cafestol and kahweol. Schilter B, et al. **Carcinogenesis** 1996 Nov;17(11):2377-84

Effects of nonsteroidal anti-inflammatory drugs on glutathione S-transferases of the rat digestive tract. van Lieshout EM, et al. **Carcinogenesis** 1997 Mar;18(3):485-90

Increase of cytochrome P-450 1A and glutathione transferase transcripts in cultured hepatocytes from dogs, monkeys, and humans after cryopreservation. de Sousa G, et al. **Cell Biol Toxicol** 1996 Dec;12(4-6):351-8

Decreased activity of inducible nitric oxide synthase type 2 and modulation of the expression of glutathione S-transferase alpha, bcl-2, and metallothioneins during the differentiation of CaCo-2 cells. Vecchini F, et al. **Cell Growth Differ** 1997 Feb;8(2):261-8

Substrate and thiol specificity of a stress-inducible glutathione transferase from soybean. Skipsey M, et al.

GLUTATHIONE TRANSFERASES

FEBS Lett 1997 Jun 16;409(3):370–4

Genotoxicity of N–nitroso–N–methylurea and acetone oxime in the transgenic Drosophila carrying the human gene encoding a subunit of glutathione S–transferase. Ryšková M, et al. **Folia Biol (Praha)** 1997;43(1):19–24

Production and purification of Japanese quail ovalbumin as fusion protein with glutathione S–transferase in Escherichia coli. Višvaderová J, et al. **Folia Microbiol (Praha)** 1995; 40(2):169–75

c–Jun and GST–pi expression in human plasma cells. Di Simone D, et al. **Haematologica** 1997 Jan–Feb;82(1):69–70

Profound overexpression of leukotriene C4 synthase in bronchial biopsies from aspirin–intolerant asthmatic patients. Sampson AP, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):355–7

Rat GST 8–8 is expressed predominantly in myeloid origin cells infiltrating the gravid uterus. Awasthi S, et al. **Int J Biochem Cell Biol** 1997 May;29(5):807–13

Time for integration of predictive factors for selection of breast cancer patients who need postoperative radiation therapy? [editorial; comment] Bergh J. **J Natl Cancer Inst** 1997 May 7;89(9):605–7 (31 ref.). Comment on: J Natl Cancer Inst 1997 May 7;89(9):639–45.

Glutathione S–transferase PI (GST–pi) class expression by immunohistochemistry in benign and malignant prostate tissue. Cookson MS, et al. **J Urol** 1997 Feb;157(2):673–6

Molecular cloning, expression and characterization of a recombinant glutathione S–transferase from Echinococcus multilocularis. Liebau E, et al. **Mol Biochem Parasitol** 1996 Apr;77(1):49–56

Overexpression of human glutathione S–transferase pi protects NIH 3T3 cells against (+/–)anti BPDE cytotoxicity but not tumor formation. Boucher DM, et al. **Pathobiology** 1995;63(4):197–203

Synovial sarcoma: immunohistochemical expression of P–glycoprotein and glutathione S transferase–pi and clinical drug resistance. Lopes JM, et al. **Pathol Res Pract** 1997;193(1):21–36

Distribution of glutathione S–transferase isoforms in rat liver after induction by beta–naphthoflavone or 3–methylcholanthrene. Sippel H, et al. **Pharmacol Toxicol** 1996 Aug;79(2):80–6

Selective and synergistic activity of L–S,R–buthionine sulfoximine on malignant melanoma is accompanied by decreased expression of glutathione–S–transferase. Fruehauf JP, et al. **Pigment Cell Res** 1997 Aug;10(4):236–49

Optimized heterologous expression of the polymorphic human glutathione transferase M1–1 based on silent mutations in the corresponding cDNA. Widersten M, et al. **Protein Expr Purif** 1996 Jun;7(4):367–72

Increased resistance to oxidative stress in transfected cultured cells overexpressing glutathione S–transferase mGSTA4–4. Zimniak L, et al. **Toxicol Appl Pharmacol** 1997 Mar; 143(1):221–9

Effects of triethyl lead administration on the expression of glutathione S–transferase isoenzymes and quinone reductase in rat kidney and liver. Daggett DA, et al. **Toxicology** 1997 Feb 14;117(1):61–71

BLOOD

Serum glutathione S–transferase concentrations and creatinine clearance after sevoflurane anaesthesia. Darling JR, et al. **Anaesthesia** 1997 Feb;52(2):121–6

Effect of sevoflurane anaesthesia on plasma concentrations of glutathione S–transferase. Ray DC, et al. **Br J Anaesth** 1996 Sep;77(3):404–7

Measurement of glutathione S–transferase P1–1 in plasma: pitfalls and significance of screening and follow–up of patients with gastrointestinal carcinoma. Mulder TP, et al. **Cancer** 1997 Sep 1;80(5):873–80

Plasma glutathione S–transferase alpha 1–1 levels in patients with chronic liver disorders. Mulder TP, et al. **Clin Chim Acta** 1997 Feb 3;258(1):69–77

alpha–Glutathione S–transferase levels in chronic hepatitis C infection and the effect of alpha–interferon therapy. Thorburn D, et al. **Clin Chim Acta** 1996 Sep 30; 253(1–2):171–80

Changes of lipid peroxides and antioxidative factors levels in blood of patients treated with ACE inhibitors. Djordjević VB, et al. **Clin Nephrol** 1997 Apr;47(4):243–7

Alpha–glutathione s–transferase (alpha–GST) release, an early indicator of carbon tetrachloride hepatotoxicity in the rat. Clarke H, et al. **Hum Exp Toxicol** 1997 Mar; 16(3):154–7

Marker for liver damage in neonates born to mothers with HELLP syndrome [letter] Knapen M, et al. **Lancet** 1997 May 24;349(9064):1519–20

Erythrocyte glutathione–S–transferase activity in animal species. Vodela JK, et al. **Vet Hum Toxicol** 1997 Feb; 39(1):9–11

[Follow–up on alpha–glutathione–S–transferase serum level following liver transplantation] Varga M, et al. **Orv Hetil** 1997 Feb 16;138(7):413–6 (Eng. Abstr.) **(Hun)**

CEREBROSPINAL FLUID

The presence and significance of the Pi class glutathione S–transferase isoenzyme in cerebrospinal fluid during the course of meningitis in children. Wylie–Modro S, et al. **Pediatr Res** 1997 Aug;42(2):232–6

CHEMISTRY

Amino acid residue 104 in an alpha–class glutathione S–transferase is essential for the high selectivity and specificity of the enzyme for 4–hydroxynonenal. Nanduri B, et al. **Arch Biochem Biophys** 1996 Nov 15;335(2):305–10

Active site architecture of polymorphic forms of human glutathione S–transferase P1–1 accounts for their enantioselectivity and disparate activity in the glutathione conjugation of 7beta,8alpha–dihydroxy–9alpha,10alpha–oxy–7,8,9,10–tetrahydrobenzo(a)pyrene. Hu X, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):424–8

Identification of an N–capping box that affects the alpha 6–helix propensity in glutathione S–transferase superfamily proteins: a role for an invariant aspartic residue. Aceto A, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):229–34

Glutathione S–transferases from the white–rot fungus, Phanerochaete chrysosporium. Dowd CA, et al. **Biochem J** 1997 May 15;324 (Pt 1):243–8

Mass spectrometric analysis of rat ovary and testis cytosolic glutathione S–transferases (GSTs): identification of a novel class–alpha GST, rGSTA6*, in rat testis. Hsieh CH, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):503–10

Glutathione S–transferase class Kappa: characterization by the cloning of rat mitochondrial GST and identification of a human homologue. Pemble SE, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):749–54

Subunit diversity and tissue distribution of human glutathione S–transferases: interpretations based on electrospray ionization–MS and peptide sequence–specific antisera. Rowe JD, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):481–6

Amphibian embryo glutathione transferase: amino acid sequence and structural properties [letter] Sacchetta P, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):679–80

Fosfomycin resistance protein (FosA) is a manganese metalloglutathione transferase related to glyoxalase I and the extradiol dioxygenases. Bernat BA, et al. **Biochemistry** 1997 Mar 18;36(11):3050–5

Rational modulation of the catalytic activity of A1–1 glutathione S–transferase: evidence for incorporation of an on–face (pi...HO–Ar) hydrogen bond at tyrosine–9. Dietze EC, et al. **Biochemistry** 1996 Sep 17;35(37):11938–44

Resonance energy transfer between sites in rat liver glutathione S–transferase, 1–1, selectively modified at cysteine–17 and cysteine–111. Hu L, et al. **Biochemistry** 1997 Feb 18;36(7):1635–45

Structure and function of the xenobiotic substrate–binding site and location of a potential non–substrate–binding site in a class pi glutathione S–transferase. Ji X, et al. **Biochemistry** 1997 Aug 12;36(32):9690–702

Multifunctional role of Tyr 108 in the catalytic mechanism of human glutathione transferase P1–1. Crystallographic and kinetic studies on the Y108F mutant enzyme. Lo Bello M, et al. **Biochemistry** 1997 May 20;36(20):6207–17

Dimer interface of glutathione S–transferase from Arabidopsis thaliana: influence of the G–site architecture on the dimer interface and implications for classification. Prade L, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):317–20

Stereoselective conjugation of prostaglandin A2 and prostaglandin J2 with glutathione, catalyzed by the human glutathione S–transferases A1–1, A2–2, M1a–1a, and P1–1. Bogaards JJ, et al. **Chem Res Toxicol** 1997 Mar;10(3):310–7

A homology model for rat mu class glutathione S–transferase 4–4. de Groot MJ, et al. **Chem Res Toxicol** 1996 Jan–Feb; 9(1):28–40

Cross–linking of human placenta pi class glutathione S–transferase dimer by chlorambucil. Hathout Y, et al. **Chem Res Toxicol** 1996 Sep;9(6):1044–9

Structure–activity relationships for the glutathione conjugation of 2–substituted 1–chloro–4–nitrobenzenes by rat glutathione S–transferase 4–4. van der Aar EM, et al. **Chem Res Toxicol** 1996 Mar;9(2):527–34

Isolation and characterisation of the class alpha, mu and pi glutathione transferases in LLC–PK1 and pig kidney. Bohets HH, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jul; 114(3):261–7

Purification and characterisation of hepatic glutathione transferases from a herbivorous marsupial, the brushtail possum (Trichosurus vulpecula). Bolton RM, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):467–75

Busulfan conjugation by glutathione S–transferases alpha, mu, and pi. Czerwinski M, et al. **Drug Metab Dispos** 1996 Sep;24(9):1015–9

Modeling the active sites of cytochrome P450s and glutathione S–transferases, two of the most important biotransformation enzymes. De Groot MJ, et al. **Drug Metab Rev** 1997 Aug;29(3):747–99 (150 ref.)

Class–pi glutathione S–transferase is unable to regain its native conformation after oxidative inactivation by hydrogen peroxide. Sluis–Cremer N, et al. **Eur J Biochem** 1996 Dec 1;242(2):301–7

Determination of a binding site for a non–substrate ligand in mammalian cytosolic glutathione S–transferases by means of fluorescence–resonance energy transfer. Sluis–Cremer N, et al. **Eur J Biochem** 1996 Oct 15; 241(2):484–8

Characterization of a marsupial glutathione transferase, a class Alpha enzyme from Brown Antechinus (Antechinus stuartii). Bolton RM, et al. **FEBS Lett** 1997 Apr 7; 406(1–2):216–9

Glutathione transferases and glutathione–binding proteins of termites: purification and characterisation. Haritos VS, et al. **Insect Biochem Mol Biol** 1996 Jun;26(6):617–25

Purification and characterization of a major glutathione S–transferase from the mosquito Anopheles dirus (species B). Prapanthadara LA, et al. **Insect Biochem Mol Biol** 1996 Mar;26(3):277–85

Binding of the aflatoxin–glutathione conjugate to mouse glutathione S–transferase A3–3 is saturated at only one ligand per dimer. McHugh TE, et al. **J Biol Chem** 1996 Nov 1;271(44):27470–4

Catalytic role of the alpha–carboxylate of the Glu residue of glutathione in glutathione S–transferases. Zheng YJ, et al. **J Biomol Struct Dyn** 1996 Oct;14(2):231–3

Identification of multiple target sites for a glutathione conjugate on glutathione–S–transferase by matrix–assisted laser desorption/ionization mass spectrometry. Jespersen S, et al. **J Mass Spectrom** 1996 Jan;31(1):101–7

The 3.0 A projection structure of microsomal glutathione transferase as determined by electron crystallography of p 21212 two–dimensional crystals. Hebert H, et al. **J Mol Biol** 1997 Sep 5;271(5):751–8

Pressure–dependent ionization of Tyr 9 in glutathione S–transferase A1–1: contribution of the C–terminal helix to a "soft" active site. Atkins WM, et al. **Protein Sci** 1997 Apr;6(4):873–81

Conformational stability of pGEX–expressed Schistosoma japonicum glutathione S–transferase: a detoxification enzyme and fusion–protein affinity tag. Kaplan W, et al. **Protein Sci** 1997 Feb;6(2):399–406

Use of a fusion protein to obtain crystals suitable for X–ray analysis: crystallization of a GST–fused protein containing the DNA–binding domain of DNA replication–related element–binding factor, DREF. Kuge M, et al. **Protein Sci** 1997 Aug;6(8):1783–6

Homology model for the human GSTT2 Theta class glutathione transferase. Chelvanayagam G, et al. **Proteins** 1997 Jan;27(1):118–30

On the reaction mechanism of class Pi glutathione S–transferase. Orozco M, et al. **Proteins** 1997 Aug; 28(4):530–42

Rabbit aorta glutathione S–transferases and their role in bioactivation of trinitroglycerin. Singhal SS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):378–86

CLASSIFICATION

A homology model for rat mu class glutathione S–transferase 4–4. de Groot MJ, et al. **Chem Res Toxicol** 1996 Jan–Feb; 9(1):28–40

DEFICIENCY

Deficiency of glutathione S–transferases T1 and M1 as heritable factors of increased cutaneous UV sensitivity. Kerb R, et al. **J Invest Dermatol** 1997 Feb;108(2):229–32

DRUG EFFECTS

The effect of ethyldeshydroxy–sparsomycin and cisplatin on the intracellular glutathione level and glutathione S–transferase activity. Hofs HP, et al. **Anticancer Drugs** 1997 Apr;8(4):349–57

Inhibitory effect of crocetin on benzo(a)pyrene genotoxicity and neoplastic transformation in C3H10T1/2 cells. Chang WC, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3603–8

Inhibition of cytochromes P–450 and induction of glutathione S–transferases by sulforaphane in primary human and rat hepatocytes. Mahéo K, et al. **Cancer Res** 1997 Sep 1; 57(17):3649–52

Regulation of glutathione S–transferases and aldehyde reductase by chemoprotectors: studies of mechanisms responsible for inducible resistance to aflatoxin B1. Hayes JD, et al. **IARC Sci Publ** 1996;(139):175–87 (75 ref.)

Modulation of glutathione S–transferase subunits A2, M1, and P1 expression by interleukin–1beta in rat hepatocytes in primary culture. Maheo K, et al. **J Biol Chem** 1997 Jun 27;272(26):16125–32

Alterations in isoforms of glutathione S–transferase in liver and kidney of cadmium exposed rhesus monkeys: purification and kinetic characterization. Sidhu M, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):55–63

Enhancement of radiation–inducible hepatic glutathione–S–transferases Ya, Yb1, Yb2, Yc1, and Yc2 gene expression by oltipraz: possible role in radioprotection. Kim SG, et al. **Mol Pharmacol** 1997 Feb; 51(2):225–33

Transcription regulation of rat glutathione S–transferase Ya subunit gene expression by chemopreventive agents. Fei P, et al. **Pharm Res** 1996 Jul;13(7):1043–8

The use of human in vitro metabolic parameters to explore the risk assessment of hazardous compounds: the case of ethylene dibromide. Ploemen JP, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):56–69

[The effect of heparin on the activity of the mono–oxygenase glucuronyl– and glutathione transferase systems in ultrasonic damage to the rat liver] Eismont KA, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):42–4 (Eng. Abstr.) **(Rus)**

GENETICS

Human GSH–transferase in risk assessment. Bolt HM. **Adv Exp Med Biol** 1996;387:405–9 (28 ref.)

Glutathione–S–transferase GST M1 "null" genotype and the

risk of alcoholic liver disease. Savolainen VT, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1340–5

The glutathione S–transferase theta and mu deletion polymorphisms in asbestosis. Kelsey KT, et al. **Am J Ind Med** 1997 Mar;31(3):274–9

Characterization of the rabbit renal Na(+)–dicarboxylate cotransporter using antifusion protein antibodies. Pajor AM, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1808–16

Glutathione S–transferase and cytochrome–P–450 polymorphism as risk factors for squamous cell carcinoma of the larynx. Jahnke V, et al. **Am J Surg** 1996 Dec; 172(6):671–3

Glutathione S–transferase–encoding gene as a potential probe for environmental bacterial isolates capable of degrading polycyclic aromatic hydrocarbons. Lloyd–Jones G, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3286–90

Transfection of a 4–hydroxynonenal metabolizing glutathione S–transferase isozyme, mouse GSTA4–4, confers doxorubicin resistance to Chinese hamster ovary cells. He NG, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):214–20

Comprehensive analysis of proteins which interact with the antioxidant responsive element: correlation of ARE–BP–1 with the chemoprotective induction response. Wasserman WW, et al. **Arch Biochem Biophys** 1997 Aug 15; 344(2):387–96

Over–expression of glutathione S–transferases, DT–diaphorase and an apparently tumour–specific cytosolic class–3 aldehyde dehydrogenase by Warthin tumours and mucoepidermoid carcinomas of the human parotid gland. Sreerama L, et al. **Arch Oral Biol** 1996 Jun; 41(6):597–605

Influence of polymorphisms of GSTM1 and GSTT1 for risk of renal cell cancer in workers with long–term high occupational exposure to trichloroethene. Brüning T, et al. **Arch Toxicol** 1997;71(9):596–9

The GST T1 and CYP2E1 genotypes are possible factors causing vinyl chloride induced abnormal liver function. Huang CY, et al. **Arch Toxicol** 1997;71(8):482–8

Glutathione S–transferase GSTM1 and GSTT1 null genotypes as potential risk factors for urothelial cancer of the bladder. Kempkes M, et al. **Arch Toxicol** 1996; 71(1–2):123–6

Comparative genotyping and phenotyping of glutathione S–transferase GSTT1. Kempkes M, et al. **Arch Toxicol** 1996;70(5):306–9

Association of homozygosity for glutathione–S–transferase GSTM1 null alleles with the Ro+/La– autoantibody profile in patients with systemic lupus erythematosus. Ollier W, et al. **Arthritis Rheum** 1996 Oct;39(10):1763–4

Cloning of VEGF165 into expression vector for protein production. Tuffin MJ, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):81–4

Preferential overexpression of a class MU glutathione S–transferase subunit in mouse liver by myristicin. Ahmad H, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):825–8

Stable transfection of LLC–PK1 cells with human microsomal glutathione S–transferase gene increases haloalkene glutathione S–conjugate formation and cytotoxicity. Otieno MA, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):481–4

Structure and expression of a cluster of glutathione S–transferase genes from a marine fish, the plaice (Pleuronectes platessa). Leaver MJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):405–12

Glutathione S–transferase Yc cDNA from Syrian hamster kidney. Maggouta F, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):147–9

Mutagenesis of the active site of the human Theta–class glutathione transferase GSTT2–2: catalysis with different substrates involves different residues. Tan KL, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):315–21

Evolution of glutathione transferases and related enzymes for the protection of cells against electrophiles. Mannervik B. **Biochem Soc Trans** 1996 Aug;24(3):878–80 (15 ref.)

Positive and negative regulatory regions in promoters of human glutathione transferase alpha genes. Lorper M, et al. **Biol Chem Hoppe Seyler** 1996 Jan;377(1):39–46

Real–time assay of the interaction of a GST fusion protein with a protein ligate using resonant mirror technique. Rubio I, et al. **Biotechniques** 1997 Feb;22(2):269–71

Higher frequency of glutathione S–transferase deletions in black children with acute lymphoblastic leukemia. Chen CL, et al. **Blood** 1997 Mar 1;89(5):1701–7

Susceptibility to endometrial cancer: influence of allelism at p53, glutathione S–transferase (GSTM1 and GSTT1) and cytochrome P–450 (CYP1A1) loci. Esteller M, et al. **Br J Cancer** 1997;75(9):1385–8

Expression of multidrug resistance–related genes (mdrl, MRP, GST–pi and DNA topoisomerase II) in urothelial cancers. Kim WJ, et al. **Br J Urol** 1996 Sep;78(3):361–8

Genotyping of the CYP1A1 and GSTM1 genes in esophageal carcinoma patients with special reference to smoking. Nimura Y, et al. **Cancer** 1997 Sep 1;80(5):852–7

A case–control study of cytochrome P450 1A1, glutathione S–transferase M1, cigarette smoking and lung cancer susceptibility (Massachusetts, United States). Garcia–Closas M, et al. **Cancer Causes Control** 1997 Jul;8(4):544–53

Polymorphisms in the glutathione S–transferase class mu and theta genes interact and increase susceptibility to lung cancer in minority populations (Texas, United States). Kelsey KT, et al. **Cancer Causes Control** 1997 Jul;8(4):554–9

Glutathione S–transferase M1 genotypes and the risk of anal cancer: a population–based case–control study. Chen C, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec; 5(12):985–91

Glutathione S–transferase class mu deletion polymorphism and breast cancer: results from prevalent versus incident cases. Kelsey KT, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):511–5

CG island methylation changes near the GSTP1 gene in prostatic carcinoma cells detected using the polymerase chain reaction: a new prostate cancer biomarker. Lee WH, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jun; 6(6):443–50

Molecular epidemiology of the human glutathione S–transferase genotypes GSTM1 and GSTT1 in cancer susceptibility. Rebbeck TR. **Cancer Epidemiol Biomarkers Prev** 1997 Sep;6(9):733–43 (121 ref.)

The glutathione S–transferase M1 (GSTM1) null genotype and benzidine–associated bladder cancer, urine mutagenicity, and exfoliated urothelial cell DNA adducts. Rothman N, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):979–83

Glutathione–S–Transferase M1 and codon 72 p53 polymorphisms in a northwestern Mediterranean population and their relation to lung cancer susceptibility. To–Figueras J, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):337–42

A multiplex PCR procedure for polymorphic analysis of GSTM1 and GSTT1 genes in population studies. Abdel–Rahman SZ, et al. **Cancer Lett** 1996 Oct 22; 107(2):229–33

GSTM1 gene polymorphism as a possible marker for susceptibility to head and neck cancers among Japanese smokers. Kihara M, et al. **Cancer Lett** 1997 Jan 30; 112(2):257–62

Gene deficiency of glutathione S–transferase mu isoform associated with susceptibility to lung cancer in a Chinese population. Sun GF, et al. **Cancer Lett** 1997 Feb 26; 113(1–2):169–72

Polymorphism of metabolizing genes and lung cancer histology: prevalence of CYP2E1 in adenocarcinoma. El–Zein RA, et al. **Cancer Lett** 1997 Jan 15;112(1):71–8

Genetic polymorphism of GSTM1, CYP2E1 and CYP2D6 in Egyptian bladder cancer patients. Anwar WA, et al. **Carcinogenesis** 1996 Sep;17(9):1923–9

Allelism at the glutathione S–transferase GSTM3 locus: interactions with GSTM1 and GSTT1 as risk factors for astrocytoma. Hand PA, et al. **Carcinogenesis** 1996 Sep; 17(9):1919–22

Identification of genetic polymorphisms at the glutathione S–transferase Pi locus and association with susceptibility to bladder, testicular and prostate cancer. Harries LW, et al. **Carcinogenesis** 1997 Apr;18(4):641–4

Aromatic DNA adducts in foundry workers in relation to exposure, life style and CYP1A1 and glutathione transferase M1 genotype. Hemminki K, et al. **Carcinogenesis** 1997 Feb;18(2):345–50

Glutathione S–transferase M1 (GSTM1) and T1 (GSTT1) genetic polymorphism and susceptibility to gastric and colorectal adenocarcinoma. Katoh T, et al. **Carcinogenesis** 1996 Sep;17(9):1855–9

Multiple cutaneous basal cell carcinomas: glutathione S–transferase (GSTM1, GSTT1) and cytochrome P450 (CYP2D6, CYP1A1) polymorphisms influence tumour numbers and accrual. Lear JT, et al. **Carcinogenesis** 1996 Sep;17(9):1891–6

Truncal site and detoxifying enzyme polymorphisms significantly reduce time to presentation of further primary cutaneous basal cell carcinoma. Lear JT, et al. **Carcinogenesis** 1997 Aug;18(8):1499–503

Genotypes of glutathione transferase M1 and P1 and their significance for lung DNA adduct levels and cancer risk. Ryberg D, et al. **Carcinogenesis** 1997 Jul;18(7):1285–9

Glutathione S–transferase M1 (GSTM1) and T1 (GSTT1) polymorphisms and lung cancer risk among Northwestern Mediterraneans. To–Figueras J, et al. **Carcinogenesis** 1997 Aug;18(8):1529–33

Population–based study of glutathione S–transferase mu gene deletion in adult glioma cases and controls. Wiencke JK, et al. **Carcinogenesis** 1997 Jul;18(7):1431–3

Biomarker studies in northern Bohemia. Binková B, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:591–7

Combinations of susceptible genotypes and individual responses to toxicants. Hirvonen A. **Environ Health Perspect** 1997 Jun;105 Suppl 4:755–8 (48 ref.)

Cytogenetic markers of susceptibility: influence of polymorphic carcinogen–metabolizing enzymes. Norppa H. **Environ Health Perspect** 1997 Jun;105 Suppl 4:829–35 (53 ref.)

Xenobiotic metabolism genes and the risk of recurrent spontaneous abortion. Hirvonen A, et al. **Epidemiology** 1996 Mar;7(2):206–8

Glutathione S–transferase and cytochrome P450 genotypes as risk factors for laryngeal carcinoma. Jahnke V, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S147–9

Overexpression of glutathione S–transferase pi messenger RNA and its relationship to gene amplification in head and neck squamous cell carcinoma. Pavelic ZP, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S144–6

Regulatory mechanisms involved in activator–protein–1 (AP–1)–mediated activation of glutathione–S–transferase gene expression by chemical agents. Ainbinder E, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):49–57

Addition of acetaldehyde to the N–terminus of a recombinant Schistosoma mansoni glutathione S–transferase upon high–level expression in Saccharomyces cerevisiae. Roecklin D, et al. **Eur J Biochem** 1997 May 1;245(3):589–99

Deletion analysis of the Schistosoma mansoni 28–kDa glutathione S–transferase gene promoter in mammalian cells—importance of a proximal activator–protein–1 site. Serra E, et al. **Eur J Biochem** 1997 Aug 15;248(1):113–9

Glutathione S–transferase and multidrug–resistant phenotype in transitional cell carcinoma of the bladder. Akdaş A, et al. **Eur Urol** 1996;29(4):483–6

Schistosoma mansoni: the developmental regulation and immunolocalization of antioxidant enzymes. Mei H, et al. **Exp Parasitol** 1997 May;86(1):69–78

Hormonal regulation of hepatic enzymes involved in foreign compound metabolism. Prough RA, et al. **FASEB J** 1996 Oct;10(12):1369–77 (39 ref.)

Dichloromethane metabolism to formaldehyde and reaction of formaldehyde with nucleic acids in hepatocytes of rodents and humans with and without glutathione S–transferase T1 and M1 genes. Casanova M, et al. **Fundam Appl Toxicol** 1997 Jun;37(2):168–80

A cDNA coding for glutathione S–transferase from the unicellular green algae Coccomyxa sp. Hiltonen T, et al. **Gene** 1996 Oct 17;176(1–2):263–4

Distribution of glutathione S–transferase T1 phenotypes in the Estonian population. Tasa G, et al. **Gene Geogr** 1996 Dec;10(3):181–9

Human CD34+ cells do not express glutathione S–transferases alpha. Czerwinski M, et al. **Gene Ther** 1997 Mar;4(3):268–70

Structural organization of the human microsomal glutathione S–transferase gene (GST12). Kelner MJ, et al. **Genomics** 1996 Aug 15;36(1):100–3

Frequency of glutathione S–transferase M1 deletion in smokers with emphysema and lung cancer. Harrison DJ, et al. **Hum Exp Toxicol** 1997 Jul;16(7):356–60

More on genetic predisposition. Strange RC. **Hum Exp Toxicol** 1995 Dec;14(12):992–3

Retrovirus–mediated gene transfer of rat glutathione S–transferase Yc confers in vitro resistance to alkylating agents in human leukemia cells and in clonogenic mouse hematopoietic progenitor cells. Letourneau S, et al. **Hum Gene Ther** 1996 May 1;7(7):831–40

Proportion of the GSTM1 0/0 genotype in some Slavic populations and its correlation with cystic fibrosis and some multifactorial diseases. Baranov VS, et al. **Hum Genet** 1996 Apr;97(4):516–20

Peculiarities of the GSTM1 0/0 genotype in French heavy smokers with various types of chronic bronchitis. Baranova H, et al. **Hum Genet** 1997 Jun;99(6):822–6

Laryngeal and oropharyngeal cancer, and alcohol dehydrogenase 3 and glutathione S–transferase M1 polymorphisms. Coutelle C, et al. **Hum Genet** 1997 Mar; 99(3):319–25

Expression of a Schistosoma mansoni 28–kilodalton glutathione S–transferase in the livers of transgenic mice and its effect on parasite infection. Xu X, et al. **Infect Immun** 1997 Sep;65(9):3867–74

A glutathione S–transferase gene of the vector mosquito, Anopheles gambiae. Reiss RA, et al. **Insect Mol Biol** 1993; 2(1):25–32

Characterization of the gene for leukotriene C4 synthase and its chromosomal localization. Austen KF, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):51–4 (20 ref.)

Glutathione S–transferase–M1 'null' genotype and alcohol–induced disorders of human spermatogenesis Pajarinen J, et al. **Int J Androl** 1996 Jun;19(3):155–63

CYP1A1, CYP2E1 and GSTM1 polymorphisms are not associated with susceptibility to squamous–cell carcinoma of the esophagus. Morita S, et al. **Int J Cancer** 1997 Apr 10;71(2):192–5

Nuclear factor 1 family proteins bind to the silencer element in the rat glutathione transferase P gene. Osada S, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):355–63

Molecular cloning, characterization, and expression in Escherichia coli of full–length cDNAs of three human glutathione S–transferase Pi gene variants. Evidence for differential catalytic activity of the encoded proteins. Ali–Osman F, et al. **J Biol Chem** 1997 Apr 11; 272(15):10004–12

Site–directed mutagenesis of human leukotriene C4 synthase. Lam BK, et al. **J Biol Chem** 1997 May 23;272(21):13923–8

Cloning and localization of a glutathione S–transferase class I gene from Anopheles gambiae. Ranson H, et al. **J Biol Chem** 1997 Feb 28;272(9):5464–8

Isolation of a biologically active soluble human interferon–alpha receptor–GST fusion protein expressed in Escherichia coli. Nguyen NY, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):835–44

Truncal tumor site is associated with high risk of multiple basal cell carcinoma and is influenced by glutathione S–transferase, GSTT1, and cytochrome P450, CYP1A1 genotypes, and their interaction. Lear JT, et al. **J Invest Dermatol** 1997 Apr;108(4):519–22

Heterogeneity of the glutathione transferase genes encoding enzymes responsible for insecticide degradation in the housefly. Syvanen M, et al. **J Mol Evol** 1996 Sep;

43(3):236–40

Glutathione S–transferase and N–acetyltransferase genotypes and asbestos–associated pulmonary disorders. Hirvonen A, et al. **J Natl Cancer Inst** 1996 Dec 18;88(24):1853–6

Re: relationship between sunlight exposure and a key genetic alteration in basal cell carcinoma [letter] Lear JT, et al. **J Natl Cancer Inst** 1997 Mar 19;89(6):454–5

Cytochrome P450 2D6 and glutathione S–transferase genotype in sudden infant death syndrome. Chen CL, et al. **J Paediatr Child Health** 1997 Feb;33(1):31–7

Enhanced expression of gamma–glutamylcysteine synthetase and glutathione S–transferase genes in cisplatin–resistant bladder cancer cells with multidrug resistance phenotype. Kotoh S, et al. **J Urol** 1997 Mar;157(3):1054–8

Glutathione S–transferase gene deletions in myelodysplasia [letter; comment] Atoyebi W, et al. **Lancet** 1997 May 17; 349(9063):1450–1. Comment on: Lancet 1996 Feb 3;347(8997):295–7.

Glutathione S–transferase theta 1 (GSTT1) gene defect in myelodysplasia and acute myeloid leukaemia [letter] Basu T, et al. **Lancet** 1997 May 17;349(9063):1450

Glutathione S transferase theta 1 gene defects in myelodysplastic syndromes and their correlation with karyotype and exposure to potential carcinogens. Preudhomme C, et al. **Leukemia** 1997 Sep;11(9):1580–2

Analysis of L–myc and GSTM1 genotypes in Chinese non–small cell lung carcinoma patients. Ge H, et al. **Lung Cancer** 1996 Nov;15(3):355–66

Assignment of the mu–class glutathione S–transferase gene (hGSTYBX) to Syrian hamster chromosome 15 by FISH. Maggouta F, et al. **Mamm Genome** 1996 Jun;7(6):469–70

Analysis of a Rhizobium leguminosarum gene encoding a protein homologous to glutathione S–transferases. Tawfiq Alkafaf NK, et al. **Microbiology** 1997 Mar;143 (Pt 3):813–22

Biochemical analysis, gene structure and localization of the 24 kDa glutathione S–transferase from Onchocerca volvulus. Liebau E, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):27–39

Functional analysis of the Schistosoma mansoni 28 kDa glutathione S–transferase gene promoter: involvement of SMNF–Y transcription factor in multimeric complexes. Serra E, et al. **Mol Biochem Parasitol** 1996 Dec 2; 83(1):69–80

Molecular cloning of the human leukotriene C4 synthase gene and assignment to chromosome 5q35. Bigby TD, et al. **Mol Med** 1996 Sep;2(5):637–46

Induction of sister chromatid exchange by 3,4–expoxybutane–1,2–diol in cultured human lymphocytes of different GSTT1 and GSTM1 genotypes [published erratum appears in Mutat Res 1997 Apr 24;390(1–2):199] Bernardini S, et al. **Mutat Res** 1996 Dec 12;361(2–3):121–7

Arsenic methylation capacity, body retention, and null genotypes of glutathione S–transferase M1 and T1 among current arsenic–exposed residents in Taiwan. Chiou HY, et al. **Mutat Res** 1997 Jun;386(3):197–207

The polymorphism of GSTM1, mutagen sensitivity in colon cancer and healthy control. Guo JY, et al. **Mutat Res** 1996 Nov 11;372(1):17–22

Polymorphisms of CYP1A1 and GSTM1 influence the in vivo function of CYP1A2. MacLeod S, et al. **Mutat Res** 1997 May 12;376(1–2):135–42

Influence of GSTM1 and GSTT1 polymorphisms on the frequency of chromosome aberrations in lymphocytes of smokers and pesticide–exposed greenhouse workers. Scarpato R, et al. **Mutat Res** 1997 Mar 17;389(2–3):227–35

DNA adducts in human placenta as related to air pollution and to GSTM1 genotype. Topinka J, et al. **Mutat Res** 1997 Apr 24;390(1–2):59–68

Glutathione S–transferase theta genetic polymorphism might influence tacrine hepatotoxicity in Alzheimer's patients. Becquemont L, et al. **Pharmacogenetics** 1997 Jun;7(3):251–3

Polymorphic enzymes of xenobiotic metabolism as modulators of acquired P53 mutations in bladder cancer. Brockmöller J, et al. **Pharmacogenetics** 1996 Dec; 6(6):535–45

Simultaneous characterization of glutathione S–transferase M1 and T1 polymorphisms by polymerase chain reaction in American whites and blacks. Chen CL, et al. **Pharmacogenetics** 1996 Apr;6(2):187–91

The GSTM1 genetic polymorphism in healthy Saudi Arabians and Filipinos, and Saudi Arabians with coronary atherosclerosis. Evans DA, et al. **Pharmacogenetics** 1996 Aug;6(4):365–7

Glutathione S–transferase mu as a risk factor in bladder tumours. Okkels H, et al. **Pharmacogenetics** 1996 Jun; 6(3):251–6

Genotype and phenotype of glutathione S–transferase mu in testicular cancer patients. Vistisen K, et al. **Pharmacogenetics** 1997 Feb;7(1):21–5

The promoter of a H2O2–inducible, Arabidopsis glutathione S–transferase gene contains closely linked OBF– and OBP1–binding sites. Chen W, et al. **Plant J** 1996 Dec; 10(6):955–66

Structure and regulation of the maize Bronze2 promoter. Bodeau JP, et al. **Plant Mol Biol** 1996 Nov;32(4):599–609

Cloning of a DNA–binding protein that interacts with the ethylene–responsive enhancer element of the carnation GST1 gene. Maxson JM, et al. **Plant Mol Biol** 1996 Jul; 31(4):751–9

Expression and RNA splicing of the maize glutathione S–transferase Bronze2 gene is regulated by cadmium and other stresses. Marrs KA, et al. **Plant Physiol** 1997 Jan; 113(1):93–102

Multimer formation as a consequence of separate homodimerization domains: the human c–Jun leucine zipper is a transplantable dimerization module [published erratum appears in Protein Eng 1996 Sep;9(9):831] Riley LG, et al. **Protein Eng** 1996 Feb;9(2):223–30

Optimized heterologous expression of the polymorphic human glutathione transferase M1–1 based on silent mutations in the corresponding cDNA. Widersten M, et al. **Protein Expr Purif** 1996 Jun;7(4):367–72

Expression of glutathione S–transferase activity and glutathione content in squamous cell carcinoma of bladder associated with schistosomiasis in a population in Egypt. Ghazaly GE, et al. **Scand J Urol Nephrol** 1997 Feb; 31(1):43–7

Glutathione S–transferase M1 null genotype as a risk modifier for solvent–induced chronic toxic encephalopathy. Söderkvist P, et al. **Scand J Work Environ Health** 1996 Oct;22(5):360–3

Glutathione S–transferase mu polymorphism and susceptibility to lung cancer in the Portuguese population. Moreira A, et al. **Teratog Carcinog Mutagen** 1996; 16(5):269–74

Detection of DNA damage in transcriptionally active genes by RT–PCR and assessment of repair of cisplatin–induced damage in the glutathione S–transferase–pi gene in human glioblastoma cells. Brandt TY, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):22–9

Methods and reagents. Purification of GST fusion proteins. Hengen PN. **Trends Biochem Sci** 1996 Oct;21(10):400–1

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S–transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691–4

SV40 and adenovirus may act as cocarcinogens by downregulating glutathione S–transferase expression. Sompayrac L. **Virology** 1997 Jun 23;233(1):130–5

[Genetic and phenotypic polymorphisms in carcinogen–metabolizing enzymes and cancer susceptibility] Watanabe M. **Nippon Rinsho** 1996 Aug; 54(8):2261–75 (60 ref.) (Eng. Abstr.) **(Jpn)**

[Regulation mechanism of specific expression of tumor marker gene during carcinogenesis] Imagawa M. **Yakugaku Zasshi** 1996 Jul;116(7):505–18 (29 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Glutathione S–transferase induces murine dermatitis that resembles human allergic dermatitis. Hsu CH, et al. **Adv Exp Med Biol** 1996;409:33–7

A method for isolation and purification of specific antibodies to a protein fused to the GST. Bar–Peled M, et al. **Anal Biochem** 1996 Oct 1;241(1):140–2

Subtype specific recognition of human alpha2C2 adrenergic receptor using monoclonal antibodies against the third intracellular loop. Liitti S, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):166–72

Epitope mapping of a monoclonal antibody to human glutathione transferase P1–1 the binding of which is inhibited by glutathione. Takahata T, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):531–6

Production and characterization of monoclonal antibodies against class theta glutathione S–transferase T1–1. Juronen E, et al. **Hybridoma** 1996 Feb;15(1):77–82

Characterization of monoclonal antibodies to the 26–kDa glutathione S–transferase of Schistosoma japonicum. Yan BS, et al. **Hybridoma** 1996 Dec;15(6):429–33

Infection with Salmonella typhimurium modulates the immune response to Schistosoma mansoni glutathione–S–transferase. Comoy EE, et al. **Infect Immun** 1997 Aug;65(8):3261–6

Oral vaccination of mice with recombinant Schistosoma japonicum proteins induces specific anti–parasite antibodies and damage to adult worms after a challenge infection. Yang W, et al. **Int J Parasitol** 1997 Jul;27(7):843–53

Induction of IgE antibody responses by glutathione S–transferase from the German cockroach (Blattella germanica). Arruda LK, et al. **J Biol Chem** 1997 Aug 15; 272(33):20907–12

Immunological characteristics and localization of the Trichinella spiralis glutathione S–transferase. Rojas J, et al. **J Parasitol** 1997 Aug;83(4):630–5

Local transient induction of inflammatory cytokines after intranasal administration of recombinant Bordetella pertussis. Remoué F, et al. **Microb Pathog** 1997 May; 22(5):305–13

Glutathione–binding proteins of Setaria digitata: antibody responses in human infected with Wuchereria bancrofti. Bal M, et al. **Parasite Immunol** 1996 Sep;18(9):473–7

Human isotype antibody responses to an Onchocerca volvulus glutathione S–transferase. Salinas G, et al. **Parasite Immunol** 1996 Aug;18(8):377–86

Induction of cytotoxic T–cell activity by the protective antigen of Schistosoma mansoni Sm28GST or its derived C–terminal lipopeptide. Pancré V, et al. **Scand J Immunol** 1996 Nov;44(5):485–92

Characterization of human immune responses to the cytosolic superoxide dismutase and glutathione S–transferase from Onchocerca volvulus. Brattig NW, et al. **Trop Med Int Health** 1997 Aug;2(8):788–98

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S–transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691–4

Protection of cattle against Fasciola hepatica infection by vaccination with glutathione S–transferase. Morrison CA, et al. **Vaccine** 1996 Dec;14(17–18):1603–12

Urea/DTT solubilization of a recombinant Taenia ovis antigen, 45W, expressed as a GST fusion protein results in enhanced protective immune response to the 45W moiety. Rothel JS, et al. **Vaccine** 1997 Apr;15(5):469–72

Anti–fecundity immunity to Schistosoma japonicum induced in Chinese water buffaloes (Bos buffelus) after vaccination with recombinant 26 kDa glutathione–S–transferase (reSjc26GST). Shuxian L, et al. **Vet Parasitol** 1997 Apr; 69(1–2):39–47

ISOLATION & PURIFICATION

Purification and characterization of a new glutathione S–transferase, class theta, from human erythrocytes. Schröder KR, et al. **Arch Toxicol** 1996;70(9):559–66

Glutathione S–transferases from the white–rot fungus, Phanerochaete chrysosporium. Dowd CA, et al. **Biochem J** 1997 May 15;324 (Pt 1):243–8

Structural and functional analysis of a glutathione S–transferase from Ascaris suum. Liebau E, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):659–66

Purification and characterisation of the soluble glutathione S–transferase isoenzymes in rat kidney derived NRK cells. Dierickx PJ, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):1013–23

Purification, characterization and tissue distribution of human class theta glutathione S–transferase T1–1. Juronen E, et al. **Biochem Mol Biol Int** 1996 May;39(1):21–9

Purification and characterization of three Pi class glutathione transferase from monkey (Macaca fascicularis) placenta. Di Ilio C, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Aug; 114(4):377–82

Purification and characterization of class alpha and Mu glutathione S–transferases from porcine liver. Kunze T. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):397–406

A glutathione S–transferases isozyme (bGST 5.8) involved in the metabolism of 4–hydroxy–2–trans–nonenal is localized in bovine lens epithelium. Srivastava SK, et al. **Exp Eye Res** 1996 Sep;63(3):329–37

Purification and characterization of glutathione S–transferases of rat uterus. Singhal SS, et al. **Int J Biochem Cell Biol** 1996 Nov;28(11):1271–83

Use of thiopropyl sepharose for the synthesis of an adsorbent for the affinity chromatography of glutathione S–transferase. Glatz Z, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):239–43

Methods for purification of glutathione peroxidase and related enzymes. Toribio F, et al. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1–2):77–97 (227 ref.)

A method for the separation of GST fusion proteins from co–purifying GroEL. Thain A, et al. **Trends Genet** 1996 Jun;12(6):209–10

METABOLISM

Activity of glutathione–dependent enzymes in long term diabetes. II. Glutathione contents and activity of glutathione–dependent enzymes: S–transferase and peroxidase in the kidney cytosol of alloxan induced diabetic rats. Suchocka Z, et al. **Acta Pol Pharm** 1995 May–Jun; 52(3):213–7

Activity of glutathione–dependent enzymes in long term diabetes. I. Activity of glutathione S–transferase and glutathione peroxidase in the liver of alloxan induced diabetic rats. Suchocka Z, et al. **Acta Pol Pharm** 1995 May–Jun;52(3):207–11

Glutathione S–transferase activity in epithelial ovarian cancer: association with response to chemotherapy and disease outcome [see comments] Ferrandina G, et al. **Ann Oncol** 1997 Apr;8(4):343–50. Comment in: Ann Oncol 1997 Apr;8(4):314–5.

Effects of diallyl sulfide and diallyl disulfide on cisplatin–induced changes in glutathione and glutathione–S–transferase activity. Dwivedi C, et al. **Anticancer Drugs** 1996 Sep;7(7):792–4

The effect of ethyldeshydroxy–sparsomycin and cisplatin on the intracellular glutathione level and glutathione S–transferase activity. Hofs HP, et al. **Anticancer Drugs** 1997 Apr;8(4):349–57

Identification of the nonsubstrate steroid binding site of rat liver glutathione S–transferase, isozyme 1–1, by the steroid affinity label, 3beta–(iodoacetoxy)dehydroisoandrosterone. Barycki JJ, et al. **Arch Biochem Biophys** 1997 Sep 1; 345(1):16–31

Protein S–thiolation and regulation of microsomal glutathione transferase activity by the glutathione redox couple. Dafré AL, et al. **Arch Biochem Biophys** 1996 Aug 15;332(2):288–94

Transfection of a 4–hydroxynonenal metabolizing glutathione S–transferase isozyme, mouse GSTA4–4, confers doxorubicin resistance to Chinese hamster ovary cells. He NG, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):214–20

Mechanism of differential catalytic efficiency of two polymorphic forms of human glutathione S-transferase P1-1 in the glutathione conjugation of carcinogenic diol epoxide of chrysene. Hu X, et al.
Arch Biochem Biophys 1997 Sep 1;345(1):32-8

Differential catalytic efficiency and enantioselectivity of murine glutathione S-transferase isoenzymes in the glutathione conjugation of carcinogenic anti-diol epoxides of chrysene and benzo(g)chrysene. Hu X, et al.
Arch Biochem Biophys 1997 Sep 15;345(2):318-24

Activity of four allelic forms of glutathione S-transferase hGSTP1-1 for diol epoxides of polycyclic aromatic hydrocarbons. Hu X, et al.
Biochem Biophys Res Commun 1997 Sep 18;238(2):397-402

Active site architecture of polymorphic forms of human glutathione S-transferase P1-1 accounts for their enantioselectivity and disparate activity in the glutathione conjugation of 7beta,8alpha-dihydroxy-9alpha,10alpha-oxy-7,8,9,10-tetrahydrobenzo(a)pyrene. Hu X, et al.
Biochem Biophys Res Commun 1997 Jun 18;235(2):424-8

Stable transfection of LLC-PK1 cells with human microsomal glutathione S-transferase gene increases haloalkene glutathione S-conjugate formation and cytotoxicity. Otieno MA, et al.
Biochem Biophys Res Commun 1997 May 19;234(2):481-4

Interaction of human leukotriene C4 synthase and microsomal glutathione transferase in vivo. Surapureddi S, et al. **Biochem Biophys Res Commun** 1996 Dec 13; 229(2):388-95

Glutathione transferases catalyse the detoxication of oxidized metabolites (o-quinones) of catecholamines and may serve as an antioxidant system preventing degenerative cellular processes. Baez S, et al. **Biochem J** 1997 May 15;324 (Pt 1):25-8

Interaction of Nck-associated protein 1 with activated GTP-binding protein Rac. Kitamura Y, et al.
Biochem J 1997 Mar 15;322 (Pt 3):873-8

Glutathione transferase mimics: micellar catalysis of an enzymic reaction. Lindkvist B, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):39-43

Evidence that human class Theta glutathione S-transferase T1-1 can catalyse the activation of dichloromethane, a liver and lung carcinogen in the mouse. Comparison of the tissue distribution of GST T1-1 with that of classes Alpha, Mu and Pi GST in human. Sherratt PJ, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):837-46

Structure-activity relationships for chemical and glutathione S-transferase-catalysed glutathione conjugation reactions of a series of 2-substituted 1-chloro-4-nitrobenzenes. Van der Aar EM, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):531-40

Purification and characterisation of the soluble glutathione S-transferase isoenzymes in rat kidney derived NRK cells. Dierickx PJ, et al. **Biochem Mol Biol Int** 1997 Apr; 41(5):1013-23

Effect of long time storage on cytosolic glutathione S-transferases. Peters WH, et al. **Biochem Mol Biol Int** 1997 Apr;41(5):913-7

Alpha-class isozymes of glutathione S-transferase in rat liver cytosol possess glutathione peroxidase activity toward phospholipid hydroperoxide. Sun Q, et al.
Biochem Mol Biol Int 1996 May;39(2):343-52

Expression of glutathione S-transferases Ya, Yb1, Yb2, Yc1 and Yc2 and microsomal epoxide hydrolase genes by thiazole, benzothiazole and benzothiadiazole. Kim SG, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1831-41

Effect of bitter melon (Momordica charantia) fruit juice on the hepatic cytochrome P450-dependent monooxygenases and glutathione S-transferases in streptozotocin-induced diabetic rats. Raza H, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1639-42

The peroxidase activity of glutathione S-transferase A1-1 on hydroperoxy-phospholipids. Bao Y, et al.
Biochem Soc Trans 1996 Aug;24(3):462S

Glutathione S-transferases in cultured human proximal tubular cells. Hynes AM, et al. **Biochem Soc Trans** 1996 May;24(2):326S

Evolution of glutathione transferases and related enzymes for the protection of cells against electrophiles. Mannervik B. **Biochem Soc Trans** 1996 Aug;24(3):878-80 (15 ref.)

Glutathione S-transferase of human kidney: are there gender-related quantitative differences? Rodilla V, et al. **Biochem Soc Trans** 1996 May;24(2):322S

Rational modulation of the catalytic activity of A1-1 glutathione S-transferase: evidence for incorporation of an on-face (pi...HO-Ar) hydrogen bond at tyrosine-9. Dietze EC, et al. **Biochemistry** 1996 Sep 17;35(37):11938-44

Mechanism-based phage display selection of active-site mutants of human glutathione transferase A1-1 catalyzing SNAr reactions. Hansson LO, et al. **Biochemistry** 1997 Sep 16;36(37):11252-60

Resonance energy transfer between sites in rat liver glutathione S-transferase, 1-1, selectively modified at cysteine-17 and cysteine-111. Hu L, et al. **Biochemistry** 1997 Feb 18;36(7):1635-45

Structure and function of the xenobiotic substrate-binding site and location of a potential non-substrate-binding site in a class pi glutathione S-transferase. Ji X, et al.
Biochemistry 1997 Aug 12;36(32):9690-702

Conjugation of highly reactive aflatoxin B1 exo-8,9-epoxide catalyzed by rat and human glutathione transferases: estimation of kinetic parameters. Johnson WW, et al.
Biochemistry 1997 Mar 18;36(11):3056-60

Multifunctional role of Tyr 108 in the catalytic mechanism of human glutathione transferase P1-1. Crystallographic and kinetic studies on the Y108F mutant enzyme. Lo Bello M, et al. **Biochemistry** 1997 May 20;36(20):6207-17

Exploration of the relationship between tetrachlorohydroquinone dehalogenase and the glutathione S-transferase superfamily. McCarthy DL, et al.
Biochemistry 1996 Nov 19;35(46):14634-42

The three-dimensional structure of the human Pi class glutathione transferase P1-1 in complex with the inhibitor ethacrynic acid and its glutathione conjugate. Oakley AJ, et al. **Biochemistry** 1997 Jan 21;36(3):576-85

Protein depletion and refeeding change the proportion of mouse liver glutathione S-transferase subunits. Garcia-Mata R, et al. **Biochim Biophys Acta** 1997 Jul 24; 1357(3):272-80

Post-transcriptional regulation of LTC4 synthase activity by retinoic acid in rat basophilic leukemia cells. Hamasaki Y, et al. **Biochim Biophys Acta** 1997 Aug 16;1347(2-3):205-11

Purification and characterization of a 4-hydroxynonenal metabolizing glutathione S-transferase isozyme from bovine pulmonary microvessel endothelial cells. He NG, et al. **Biochim Biophys Acta** 1996 Dec 6;1291(3):182-8

Plant glutathione S-transferases and herbicide detoxification. Neuefeind T, et al. **Biol Chem** 1997 Mar-Apr; 378(3-4):199-205 (55 ref.)

Preferential proteolysis and activation of oxidatively modified liver microsomal glutathione S-transferase of rat. Shimoji M, et al. **Biol Pharm Bull** 1996 Feb;19(2):209-13

The decrement of carcinogenesis by dietary selenium and expression of placental form of glutathione-S-transferase in rat glioma. Zhang Z, et al. **Biol Trace Elem Res** 1997 May;57(2):147-55

Immunohistochemical study of alpha, mu and pi class glutathione S transferase expression in malignant melanoma. MMM Group. Multidisciplinary Malignant Melanoma Group. Moral A, et al. **Br J Dermatol** 1997 Mar; 136(3):345-50

Chemical carcinogenesis, mutagenesis, and teratogenesis. O'Brien PJ, et al. **Can J Physiol Pharmacol** 1996 May; 74(5):565-71

Glutathione S-transferase-pi expression and glutathione concentration in ovarian carcinoma before and after chemotherapy. Cheng X, et al. **Cancer** 1997 Feb 1; 79(3):521-7

Immunohistochemical expression of pi-class glutathione S-transferase is down-regulated in adenocarcinoma of the prostate. Moskaluk CA, et al. **Cancer** 1997 Apr 15; 79(8):1595-9

Overexpression of resistance-related proteins (metallothioneins, glutathione-S-transferase pi, heat shock protein 27, and lung resistance-related protein) in osteosarcoma. Relationship with poor prognosis. Uozaki H, et al. **Cancer** 1997 Jun 15;79(12):2336-44

Dose-related increases in quantitative values for altered hepatocytic foci and cytochrome P-450 levels in the livers of rats exposed to phenobarbital in a medium-term bioassay. Hagiwara A, et al. **Cancer Lett** 1996 Dec 20; 110(1-2):155-62

Potentiation of aflatoxin B1-induced hepatocarcinogenesis in the rat by pretreatment with buthionine sulfoximine. Hiruma S, et al. **Cancer Lett** 1997 Feb 26;113(1-2):103-9

Enhancing effects of captafol on the development of GST-P-positive liver cell foci in a medium-term bioassay, and protection by L-cysteine of the enhancement in rats. Kim HC, et al. **Cancer Lett** 1997 Jan 1;111(1-2):15-20

Comparison of metabolic effects of vegetables and teas with colorectal proliferation and with tumour development in DMH-treated F344 rats. O'Neill IK, et al. **Cancer Lett** 1997 Mar 19;114(1-2):287-91

Inhibition of aflatoxin B1-induced initiation of hepatocarcinogenesis in the rat by green tea. Qin G, et al. **Cancer Lett** 1997 Jan 30;112(2):149-54

Glutathione S-transferase expression in hepatitis B virus-associated human hepatocellular carcinogenesis. Zhou T, et al. **Cancer Res** 1997 Jul 1;57(13):2749-53

Depletion of hepatocyte nuclear estrogen receptor expression is associated with promotion of tamoxifen induced GST-P foci to tumours in rat liver. Carthew P, et al.
Carcinogenesis 1997 May;18(5):1109-12

Glubodies: randomized libraries of glutathione transferase enzymes. Napolitano EW, et al. **Chem Biol** 1996 May; 3(5):359-67

The ability to alter the gap junction protein expression outside GST-P positive foci in liver of rats was associated to the tumour promotion potency of different polychlorinated biphenyls. Bager Y, et al.
Chem Biol Interact 1997 Mar 14;103(3):199-212

Structure, catalytic mechanism, and evolution of the glutathione transferases. Armstrong RN.
Chem Res Toxicol 1997 Jan;10(1):2-18 (121 ref.)

Structure-activity relationships for the glutathione conjugation of 2-substituted 1-chloro-4-nitrobenzenes by rat glutathione S-transferase 4-4. van der Aar EM, et al.
Chem Res Toxicol 1996 Mar;9(2):527-34

4-Substituted 1-chloro-2-nitrobenzenes: structure-activity relationships and extension of the substrate model of rat glutathione S-transferase 4-4. van der Aar EM, et al.
Chem Res Toxicol 1997 Apr;10(4):439-49

Interactions of melphalan with glutathione and the role of glutathione S-transferase. Awasthi S, et al.
Drug Metab Dispos 1996 Mar;24(3):371-4

Differential expression of glutathione S-transferase isoforms in compartments of the testis and segments of the epididymis of the rat. Gandy J, et al.
Drug Metab Dispos 1996 Jul;24(7):725-33

Involvement of cytochrome P450, glutathione S-transferase, and epoxide hydrolase in the metabolism of aflatoxin B1 and relevance to risk of human liver cancer. Guengerich FP, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:557-62

Determination of a binding site for a non-substrate ligand in mammalian cytosolic glutathione S-transferases by means of fluorescence-resonance energy transfer. Sluis-Cremer N, et al. **Eur J Biochem** 1996 Oct 15; 241(2):484-8

Glutathione and glutathione S-transferase in the rainbow trout olfactory mucosa during retrograde degeneration and regeneration of the olfactory nerve. Starcevic SL, et al.
Exp Neurol 1997 Aug;146(2):331-40

Chemical arrows for enzymatic targets. Colman RF.
FASEB J 1997 Mar;11(4):217-26 (27 ref.)

Reduction of thymine hydroperoxide by phospholipid hydroperoxide glutathione peroxidase and glutathione transferases. Bao Y, et al. **FEBS Lett** 1997 Jun 30; 410(2-3):210-2

Substrate and thiol specificity of a stress-inducible glutathione transferase from soybean. Skipsey M, et al.
FEBS Lett 1997 Jun 16;409(3):370-4

Metal-catalyzed oxidation and cleavage of octopus glutathione transferase by the Cu(II)-ascorbate system. Tang SS, et al. **Free Radic Biol Med** 1996;21(7):955-64

Regiospecificity of placental metabolism by cytochromes P450 and glutathione S-transferase. McRobie DJ, et al.
Gynecol Obstet Invest 1996;42(3):154-8

Glutathione-S-transferase in rat ovary: its changes during estrous cycle and increase in its activity by estradiol-17 beta. Singh D, et al. **Indian J Exp Biol** 1996 Nov; 34(11):1158-60

Purification and characterization of glutathione S-transferases of rat uterus. Singhal SS, et al.
Int J Biochem Cell Biol 1996 Nov;28(11):1271-83

Evaluation of glutathione S-transferase activity in human buccal epithelial dysplasias and squamous cell carcinomas. Chen YK, et al. **Int J Oral Maxillofac Surg** 1997 Jun; 26(3):205-9

Age affects glutathione content and glutathione-transferase activity in human gastric mucosa. Loguercio C, et al.
Ital J Gastroenterol 1996 Dec;28(9):477-81

Bacterial glutathione S-transferases: what are they good for? Vuilleumier S. **J Bacteriol** 1997 Mar;179(5):1431-41 (94 ref.)

Kinetic characterization of the endogenous glutathione transferase activity of octopus lens S-crystallin. Tang SS, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1182-8

Glutathione S-transferases in the Japanese quail: tissue distribution and purification of the liver isozymes. Dai H, et al. **J Biochem Toxicol** 1996;11(2):85-96

Subunit Ya-specific glutathione peroxidase activity toward cholesterol 7-hydroperoxides of glutathione S-transferases in cytosols from rat liver and skin. Hiratsuka A, et al.
J Biol Chem 1997 Feb 21;272(8):4763-9

An alpha class mouse glutathione S-transferase with exceptional catalytic efficiency in the conjugation of glutathione with 7beta, 8alpha-dihydroxy-9alpha,10alpha-oxy-7,8,9,10-tetrahydrobenzo(a)pyrene. Hu X, et al. **J Biol Chem** 1996 Dec 20;271(51):32684-8

Identification and characterization of a novel microsomal enzyme with glutathione-dependent transferase and peroxidase activities. Jakobsson PJ, et al. **J Biol Chem** 1997 Sep 5;272(36):22934-9

Binding of the aflatoxin-glutathione conjugate to mouse glutathione S-transferase A3-3 is saturated at only one ligand per dimer. McHugh TE, et al. **J Biol Chem** 1996 Nov 1;271(44):27470-4

Production of leukotriene C4 in different human tissues is attributable to distinct membrane bound biosynthetic enzymes. Scoggan KA, et al. **J Biol Chem** 1997 Apr 11; 272(15):10182-7

Human class Mu glutathione transferases, in particular isoenzyme M2-2, catalyze detoxication of the dopamine metabolite aminochrome. Segura-Aguilar J, et al.
J Biol Chem 1997 Feb 28;272(9):5727-31

Structural and functional aspects of rat microsomal glutathione transferase. The roles of cysteine 49, arginine 107, lysine 67, histidine, and tyrosine residues. Weinander R, et al. **J Biol Chem** 1997 Apr 4;272(14):8871-7

Chemosensitivity of head and neck squamous carcinoma cell lines is not primarily correlated with glutathione level but is modified by glutathione depletion. Bier H, et al.
J Cancer Res Clin Oncol 1996;122(11):653-8

Glutathione, glutathione S-transferase and reactive oxygen species of human scalp sebaceous glands in male pattern baldness. Giralt M, et al. **J Invest Dermatol** 1996 Aug; 107(2):154-8

Isoform-specific biotransformation of glyceryl trinitrate by rat aortic glutathione S-transferases. Nigam R, et al.
J Pharmacol Exp Ther 1996 Dec;279(3):1527-34

Correlated expression of glutathione S-transferase-pi and c-Jun or other oncogene products in human squamous cell carcinomas of the head and neck: relevance to relapse after radiation therapy. Miura K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):143-51

GLUTATHIONE TRANSFERASES

Lentinan enhances sensitivity of mouse colon 26 tumor to cis-diamminedichloroplatinum (II) and decreases glutathione transferase expression. Murata T, et al. **Jpn J Cancer Res** 1996 Nov;87(11):1171-8

Inhibition by green tea extract of diethylnitrosamine-initiated but not choline-deficient, L-amino acid-defined diet-associated development of putative preneoplastic, glutathione S-transferase placental form-positive lesions in rat liver. Tamura K, et al. **Jpn J Cancer Res** 1997 Apr; 88(4):356-62

Acetaminophen-derived activation of liver microsomal glutathione S-transferase of rats. Yonamine M, et al. **Jpn J Pharmacol** 1996 Oct;72(2):175-81

Lipid peroxidation and activity of antioxidative enzymes in the rat model of ozone therapy. Laszczyca P, et al. **Mater Med Pol** 1996 Oct-Dec;28(4):155-60

Biochemical analysis, gene structure and localization of the 24 kDa glutathione S-transferase from Onchocerca volvulus. Liebau E, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):27-39

Glutathione and glutathione metabolizing enzymes in tissues and blood of breast cancer patients. Gromadzińska J, et al. **Neoplasma** 1997;44(1):45-51

Glutathione S-transferase pi expression in matched human normal and malignant oral mucosa. Sarkar G, et al. **Oral Oncol** 1997 Mar;33(2):74-81

Tissue-specific enhancement of xenobiotic detoxification enzymes in mice by dietary rosemary extract. Singletary KW, et al. **Plant Foods Hum Nutr** 1997;50(1):47-53

Partial characterization of glutathione S-transferases from wheat (Triticum spp.) and purification of a safener-induced glutathione S-transferase from Triticum tauschii. Riechers DE, et al. **Plant Physiol** 1997 Aug;114(4):1461-70

Generation of a Ni(II) binding site by introduction of a histidine cluster in the structure of human glutathione transferase A1-1. Yilmaz S, et al. **Protein Eng** 1995 Nov; 8(11):1163-9

Probing the active site of alpha-class rat liver glutathione S-transferases using affinity labeling by monobromobimane. Hu L, et al. **Protein Sci** 1997 Jan; 6(1):43-52

Tyrosine 8 contributes to catalysis but is not required for activity of rat liver glutathione S-transferase, 1-1. Wang J, et al. **Protein Sci** 1996 Jun;5(6):1032-42

Ligand-based protein alignment and isozyme specificity of glutathione S-transferase inhibitors. Koehler RT, et al. **Proteins** 1997 Jun;28(2):202-16

Arsenite efflux is inhibited by verapamil, cyclosporin A, and GSH-depleting agents in arsenite-resistant Chinese hamster ovary cells. Huang RN, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):17-22

Glutathione S-transferase-mediated mutagenicity of trihalomethanes in Salmonella typhimurium: contrasting results with bromodichloromethane off chloroform. Pegram RA, et al. **Toxicol Appl Pharmacol** 1997 May; 144(1):183-8

Glutathione S-transferase-catalyzed conjugation of bioactivated aflatoxin B1 in rabbit lung and liver. Stewart RK, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):499-507

Induction and decline of hepatic cytochromes P4501A1 and 1A2 in rats exposed to hyperoxia are not paralleled by changes in glutathione S-transferase-alpha. Moorthy B, et al. **Toxicol Lett** 1997 Jan 15;90(1):67-75

Differential effect of peroxisome proliferators on rat glutathione S-transferase isoenzymes. Voskoboinik I, et al. **Toxicol Lett** 1996 Oct;87(2-3):147-55

Glutathione S-transferase activity and subunit composition in transitional cell cancer and mucosa of the human bladder. Berendsen CL, et al. **Urology** 1997 Apr;49(4):644-51

Purification and characterization of hepatic glutathione transferases from an insectivorous marsupial, the brown antechinus (Antechinus stuartii). Bolton RM, et al. **Xenobiotica** 1997 Jun;27(6):573-86

Enzyme kinetics and substrate selectivities of rat glutathione S-transferase isoenzymes towards a series of new 2-substituted 1-chloro-4-nitrobenzenes. van der Aar EM, et al. **Xenobiotica** 1996 Feb;26(2):143-55

[Metabolism and antioxidant function of glutathione] Gérard-Monnier D, et al. **Pathol Biol (Paris)** 1996 Jan; 44(1):77-85 (65 ref.) (Eng. Abstr.) **(Fre)**

[Glutathione S-transferase P1-1 in normal and cancerous lung tissue: properties, function, and possible mechanisms for regulating activity] Bulavin DV, et al. **Biokhimiia** 1996 Jun;61(6):1015-27 (Eng. Abstr.) **(Rus)**

[Fusion of glutathione S-transferase with the N-terminus of yeast Sup35p protein inhibits its prion-like properties] Dagkesamanskaia AR, et al. **Genetika** 1997 May; 33(5):610-5 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Purification, characterization and tissue distribution of human class theta glutathione S-transferase T1-1. Juronen E, et al. **Biochem Mol Biol Int** 1996 May;39(1):21-9

PHARMACOLOGY

Antagonists of the mannose receptor and the LDL receptor-related protein dramatically delay the clearance of tissue plasminogen activator. Biessen EA, et al. **Circulation** 1997 Jan 7;95(1):46-52

Glutathione-S-transferase induces murine dermatitis that resembles human atopic dermatitis. Hsu CH, et al. **Clin Exp Allergy** 1996 Nov;26(11):1329-37

Exposure to urban and rural air pollution: DNA and protein adducts and effect of glutathione-S-transferase genotype on adduct levels. Nielsen PS, et al. **Int Arch Occup Environ Health** 1996;68(3):170-6

Glutathione S-transferase-rhodostomin fusion protein inhibits platelet aggregation and induces platelet shape change. Chang HH, et al. **Toxicon** 1997 Feb;35(2):195-204

PHYSIOLOGY

Subunit specificity and organ distribution of glutathione transferase-catalysed S-nitrosoglutathione formation from alkyl nitrites in the rat. Akerboom TP, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):117-20

Variable glyceryl dinitrate formation as a function of glutathione S-transferase. Fujii T, et al. **Biol Pharm Bull** 1996 Aug;19(8):1093-6

Glutathione S-transferases. Raha A, et al. **Cancer Treat Res** 1996;87:83-122 (363 ref.)

Glutathione conjugation of alkylating cytostatic drugs with a nitrogen mustard group and the role of glutathione S-transferases. Dirven HA, et al. **Chem Res Toxicol** 1996 Mar;9(2):350-60 (92 ref.)

Isolation and characterisation of the class alpha, mu and pi glutathione transferases in LLC-PK1 and pig kidney. Bohets HH, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jul; 114(3):261-7

Purification and characterisation of hepatic glutathione transferases from a herbivorous marsupial, the brushtail possum (Trichosurus vulpecula). Bolton RM, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):467-75

Purification and characterization of class alpha and Mu glutathione S-transferases from porcine liver. Kunze T. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):397-406

The role of human glutathione transferases and epoxide hydrolases in the metabolism of xenobiotics. Seidegård J, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:791-9 (102 ref.)

Platelet inhibitory effect of nitroglycerin in platelet-rich plasma: relevance of glutathione-s-transferases in plasma. Chen LY, et al. **J Investig Med** 1996 Dec;44(9):561-5

Rabbit aorta glutathione S-transferases and their role in bioactivation of trinitroglycerin. Singhal SS, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):378-86

Glutathione S-transferase-catalyzed conjugation of bioactivated aflatoxin B1 in rabbit lung and liver. Stewart RK, et al. **Toxicol Appl Pharmacol** 1996 Oct;140(2):499-507

RADIATION EFFECTS

Change of glutathione S-transferases in the skin by ultraviolet B irradiation. Seo KI, et al. **J Dermatol Sci** 1996 Nov; 13(2):153-60

Enhancement of radiation-inducible hepatic glutathione-S-transferases Ya, Yb1, Yb2, Yc1, and Yc2 gene expression by oltipraz: possible role in radioprotection. Kim SG, et al. **Mol Pharmacol** 1997 Feb; 51(2):225-33

TOXICITY

Activation and inactivation of carcinogenic dihaloalkanes and other compounds by glutathione S-transferase 5-5 in Salmonella typhimurium tester strain NM5004. Shimada T, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):333-40

GLUTEAL REGION see **BUTTOCKS**

GLUTEN

Screening for latent gluten sensitivity: questions many, but answers few [editorial; comment] Marsh MN. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):3-6. Comment on: Eur J Gastroenterol Hepatol 1996 Jan;8(1):15-21.

Effect of a gluten free diet on osteopenia in adults with newly diagnosed coeliac disease. McFarlane XA, et al. **Gut** 1996 Aug;39(2):180-4

Evaluation of wheat gluten in milk replacers and calf starters. Terui H, et al. **J Dairy Sci** 1996 Jul;79(7):1261-6

ADMINISTRATION & DOSAGE

Dietary compliance in screening-detected coeliac disease adolescents. Fabiani E, et al. **Acta Paediatr Suppl** 1996 May; 412:65-7

Long-term effect of gluten restriction on bone mineral density of patients with coeliac disease. Bai JC, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):157-64

Celiac disease: biopsy or enteroclysis better for evaluating response to a gluten-free diet? Ott DJ. **Am J Gastroenterol** 1997 Apr;92(4):715-6

Influence of infant feeding and gluten intake on coeliac disease. Ascher H, et al. **Arch Dis Child** 1997 Feb; 76(2):113-7

Protective effect of gluten-free diet against development of lymphoma in dermatitis herpetiformis. Lewis HM, et al. **Br J Dermatol** 1996 Sep;135(3):363-7

Failure of added dietary gluten to induce small intestinal histopathological changes in patients with watery diarrhea and lymphocytic colitis. Freeman HJ. **Can J Gastroenterol** 1996 Nov-Dec;10(7):436-9

Restoration of body composition in celiac children after one year of gluten-free diet. Rea F, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):408-12

Celiac disease: small-bowel enteroclysis findings in adult patients treated with a gluten-free diet. van den Bosch HC, et al. **Radiology** 1996 Dec;201(3):803-8

[Gluten. Changed recommendations for infant care. Society of Pediatricians, Sweden] Lindberg T. **Lakartidningen** 1996 Nov 27;93(48):4396-7 **(Swe)**

ADVERSE EFFECTS

The coeliac disease task force " Free from Gluten," " Improved knowledge to cure coeliac disease". Greco L, et al. **Acta Paediatr Suppl** 1996 May;412:25-8

From the neolithic revolution to gluten intolerance: benefits and problems associated with the cultivation of wheat. Greco L. **J Pediatr Gastroenterol Nutr** 1997 May; 24(5):S14-6; discussion S16-7 (10 ref.)

Skeletal muscle weakness and dysphagia caused by acid maltase deficiency: nutritional consequences of coincident celiac sprue. King TS, et al. **JPEN J Parenter Enteral Nutr** 1997 Jan-Feb;21(1):46-9

[Gluten as food additive in The Netherlands: cheese forbidden for celiac patients?] Friederich P, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):393-4 **(Eng. Abstr.)** **(Dut)**

[Gluten as a food additive in the Netherlands: cheese prohibited for colic patients? (letter)] Jasken HH. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):1018 **(Dut)**

ANALOGS & DERIVATIVES

From image processing to classification: IV. Classification of electrophoretic patterns by neural networks and statistical methods enable quality assessment of wheat varieties for breadmaking. Jensen K, et al. **Electrophoresis** 1996 Apr;17(4):694-8

Construction and expression of a synthetic wheat storage protein gene. Anderson OD, et al. **Gene** 1996 Sep 26; 174(1):51-8

Genetic and biochemical characterization of novel low molecular weight glutenin subunits in wheat (Triticum aestivum L.). Sreeramulu G, et al. **Genome** 1997 Feb; 40(1):41-8

In vitro assessment of acetic-acid-soluble proteins (glutenin) toxicity in celiac disease. De Vincenzi M, et al. **J Biochem Toxicol** 1996;11(4):205-10

A recombinant protein of two high molecular weight glutenins alters gluten polymer formation in transgenic wheat. Shimoni Y, et al. **J Biol Chem** 1997 Jun 13; 272(24):15488-95

Thioredoxin-linked mitigation of allergic responses to wheat. Buchanan BB, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5372-7

BIOSYNTHESIS

A 45-bp proximal region containing AACA and GCN4 motif is sufficient to confer endosperm-specific expression of the rice storage protein glutelin gene, GluA-3. Yoshihara T, et al. **FEBS Lett** 1996 Apr 1;383(3):213-8

CHEMISTRY

Relations between aggregative, viscoelastic and molecular properties in gluten from genetic variants of bread wheat. Hargreaves J, et al. **Int J Biol Macromol** 1996 Feb; 18(1-2):69-75

Preparation of corn peptide from corn gluten meal and its administration effect on alcohol metabolism in stroke-prone spontaneously hypertensive rats. Yamaguchi M, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Jun;42(3):219-31

Structure characterization of the central repetitive domain of high molecular weight gluten proteins. I. Model studies using cyclic and linear peptides. Van Dijk AA, et al. **Protein Sci** 1997 Mar;6(3):637-48

Structure characterization of the central repetitive domain of high molecular weight gluten proteins. II. Characterization in solution and in the dry state. Van Dijk AA, et al. **Protein Sci** 1997 Mar;6(3):649-56

GENETICS

Tissue-specific expression in transgenic maize of four endosperm promoters from maize and rice. Russell DA, et al. **Transgenic Res** 1997 Mar;6(2):157-68

IMMUNOLOGY

Gluten sensitivity in the rectal mucosa of first-degree relatives of celiac disease patients. Dezi R, et al. **Am J Gastroenterol** 1997 Aug;92(8):1326-30

Endomysium: autoantigen in coeliac disease [comment] Feighery C, et al. **Eur J Gastroenterol Hepatol** 1997 Jul; 9(7):655-6 (14 ref.). Comment on: Eur J Gastroenterol Hepatol 1997 Jul;9(7):657-60.

Does gluten sensitivity always imply celiac disease? [letter; comment] Bai JC, et al. **Gastroenterology** 1997 Feb; 112(2):671-2. Comment on: Gastroenterology 1996 Aug;111(2):318-24.

Gluten sensitivity and neurological illness. Auricchio S. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S7-8

METABOLISM

Release of opioid peptides, gluten exorphins by the action of pancreatic elastase. Fukudome S, et al. **FEBS Lett** 1997 Aug 4;412(3):475–9

Lysine deficiency in postweaned calves fed corn and corn gluten meal diets. Abe M, et al. **J Anim Sci** 1997 Jul; 75(7):1974–82

A recombinant protein of two high molecular weight glutenins alters gluten polymer formation in transgenic wheat. Shimoni Y, et al. **J Biol Chem** 1997 Jun 13; 272(24):15488–95

Binding of endogenous and exogenous cadmium to glutelin in rice grains as studied by HPLC/ICP–MS with use of a stable isotope. Suzuki KT, et al.
J Trace Elem Med Biol 1997 Jun;11(2):71–6

TOXICITY

Increased proinflammatory cytokine gene expression in the colonic mucosa of coeliac disease patients in the early period after gluten challenge. Chowers Y, et al.
Clin Exp Immunol 1997 Jan;107(1):141–7

GLUTEN ENTEROPATHY see **CELIAC DISEASE**

GLUTETHIMIDE

ANALOGS & DERIVATIVES

Stereoselective recognition of the enantiomers of phenglutarimide and of six related compounds by four muscarinic receptor subtypes. Waelbroeck M, et al.
Br J Pharmacol 1996 Dec;119(7):1319–30

METABOLISM

Investigation of the stereoselective in vitro biotransformation of glutethimide by high–performance liquid chromatography and capillary electrophoresis. Weinz C, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7; 690(1–2):233–42

PHARMACOLOGY

Hepatic 5–aminolevulinic acid synthase mRNA stability is modulated by inhibitors of heme biosynthesis and by metalloporphyrins. Cable EE, et al. **Eur J Biochem** 1996 Aug 15;240(1):112–7

GLYBURIDE

ADMINISTRATION & DOSAGE

Therapeutic effect of glibenclamide in a fixed combination with metformin or phenformin in NIDDM patients. Raptis AE, et al. **Horm Metab Res** 1996 Feb;28(2):89–94

Maximal dose glyburide therapy in markedly symptomatic patients with type II diabetes: a new use for an old friend [letter; comment] Block MB. **J Clin Endocrinol Metab** 1996 Nov;81(11):4179. Comment on: J Clin Endocrinol Metab 1996 Jul;81(7):2423–7.

The influence of bromfenac on the pharmacokinetics and pharmacodynamic responses to glyburide in diabetic subjects. Boni JP, et al. **Pharmacotherapy** 1997 Jul–Aug; 17(4):783–90

[Comparison of two treatment models in type–II diabetic patients with poor metabolic control: Preformed combination of glibenclamide 2,5 mg + metformin 400 mg or mono–therapy with sulfonylurea at maximal doses? An evaluation at six months] D'Argenzio R, et al.
Minerva Endocrinol 1996 Sep;21(3):101–10 (Eng. Abstr.) **(Ita)**

[Comparative study of the efficiency of ultralente insulin and NPH insulin combined with sulfonylurea in type 2 diabetes patients with secondary tolerance to sulfonylurea. Possible selection criteria] Sangiorgio L, et al.
Minerva Endocrinol 1996 Jun;21(2):47–52 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

Diagnosis and treatment of sulfonylurea–induced hyperinsulinemic hypoglycemia [letter; comment] Graudins A, et al. **Am J Emerg Med** 1997 Jan;15(1):95–6. Comment on: Am J Emerg Med 1996 Jan;14(1):99–101.

Blockade of the KATP–channel by glibenclamide aggravates ischemic injury, and counteracts ischemic preconditioning. Munch–Ellingsen J, et al. **Basic Res Cardiol** 1996 Sep–Oct; 91(5):382–8

ANALOGS & DERIVATIVES

Concentration–effect relations of glibenclamide and its active metabolites in man: modelling of pharmacokinetics and pharmacodynamics. Rydberg T, et al.
Br J Clin Pharmacol 1997 Apr;43(4):373–81

BLOOD

Determination of glibenclamide in human plasma by solid–phase extraction and high–performance liquid chromatography. Valdes Santurio JR, et al.
J Chromatogr B Biomed Appl 1996 Jul 12;682(2):364–70

CHEMISTRY

Preparation and characterization of a new polymorphic form and a solvate of glibenclamide. Hassan MA, et al.
Acta Pharm Hung 1997 Mar–May;67(2–3):81–8

Dissolution kinetics of glibenclamide glass. Salem MS, et al.
Acta Pharm Hung 1997 Jan;67(1):13–7

The effect of pH on the in–vitro dissolution of three second–generation sulphonylurea preparations: mechanism of antacid–sulphonylurea interaction. Lehto P, et al.
J Pharm Pharmacol 1996 Sep;48(9):899–901

METABOLISM

Morphine tolerance–induced modulation of [3H]glyburide binding to mouse brain and spinal cord. Welch SP, et al.
Drug Alcohol Depend 1997 Apr 14;45(1–2):47–53

Sulphonylurea binding in rat isolated glomeruli: pharmacological characterization and dependence on cell metabolism and cytoskeleton. Metzger F, et al.
Naunyn Schmiedebergs Arch Pharmacol 1997 Feb; 355(2):141–9

PHARMACOKINETICS

Pharmacokinetics of oral glyburide in subjects with non–insulin–dependent diabetes mellitus and renal failure. Brier ME, et al. **Am J Kidney Dis** 1997 Jun;29(6):907–11

PHARMACOLOGY

Effects of glibenclamide and metformin (alone or in combination) on insulin release from isolated human pancreatic islets. Lupi R, et al. **Acta Diabetol** 1997 Mar; 34(1):46–8

Effect of glimepiride and glibenclamide, inhibitors of ATP–dependent K(+)–channel, on ischaemia–reperfusion induced arrhythmias in rats. Bozdogan O, et al.
Acta Physiol Hung 1996;84(3):265–6

Interference of the sulphonylurea antidiabeticum gliquidone with mitochondrial bioenergetics in the rat under in vitro conditions. Somogyi J, et al. **Acta Physiol Hung** 1995; 83(4):299–312

Interference of sulphonylurea antidiabetica with mitochondrial bioenergetics under in vivo conditions. Somogyi J, et al. **Acta Physiol Hung** 1995;83(4):313–21

Blockade of K(ATP) channels with glibenclamide does not abolish preconditioning during demand ischemia. Correa SD, et al. **Am J Cardiol** 1997 Jan 1;79(1):75–8

Differential inhibitory effects of antidiabetic drugs on arterial smooth muscle cell proliferation. Peuler JD, et al.
Am J Hypertens 1996 Feb;9(2):188–92

A disrupter of actin microfilaments impairs sulfonylurea–inhibitory gating of cardiac KATP channels. Brady PA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2710–6

Hydrogen peroxide activates glibenclamide–sensitive K+ channels in LLC–PK1 cells. Filipovic DM, et al.
Am J Physiol 1997 Feb;272(2 Pt 1):C737–43

Blocking ATP–sensitive K+ channel during metabolic inhibition impairs muscle contractility. Gramolini A, et al.
Am J Physiol 1997 Jun;272(6 Pt 1):C1936–46

Reversal of glibenclamide and voltage block of an epithelial KATP channel. Mayorga–Wark O, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1122–30

Role of K+ in regulating hypoxic cerebral blood flow in the rat: effect of glibenclamide and ouabain. Reid JM, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H45–52

Iloprost dilates rat small arteries: role of K(ATP)– and K(Ca)–channel activation by cAMP–dependent protein kinase. Schubert R, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1147–56

Glibenclamide blockade of CFTR chloride channels. Schultz BD, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):L192–200

Glibenclamide–induced blockade of ischemic preconditioning is time dependent in intact rat heart. Schultz JE, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2607–15

Nonspecific inhibition of adenosine–activated K+ current by glibenclamide in guinea pig atrial myocytes. Song Y, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2430–7

Effects of cromakalim and glibenclamide in ischemic and reperfused hearts. Tosaki A, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:460–5

3–Morpholinosydnonimine as instigator of a glibenclamide–sensitive reduction in the insulin secretory rate [published erratum appears in Biochem Pharmacol 1997 Jun 15;53(12):1946] Antoine MH, et al.
Biochem Pharmacol 1997 Apr 25;53(8):1211–3

Concentration–effect relations of glibenclamide and its active metabolites in man: modelling of pharmacokinetics and pharmacodynamics. Rydberg T, et al.
Br J Clin Pharmacol 1997 Apr;43(4):373–81

Effects of glibenclamide on the regional haemodynamic actions of alpha–trinositol and its influence on responses to vasodilators in conscious rats. Gardiner SM, et al.
Br J Pharmacol 1996 Feb;117(3):507–515

Involvement of a glibenclamide–sensitive mechanism in the nitrergic neurotransmission of the pig intravesical ureter. Hernández M, et al. **Br J Pharmacol** 1997 Feb; 120(4):609–16

Interactions between imidazoline compounds and sulphonylureas in the regulation of insulin secretion. Mourtada M, et al. **Br J Pharmacol** 1997 Jun;121(4):799–805

Effects of levcromakalim and nucleoside diphosphates on glibenclamide–sensitive K+ channels in pig urethral myocytes. Teramoto N, et al. **Br J Pharmacol** 1997 Apr; 120(7):1229–40

Activation by levcromakalim and metabolic inhibition of glibenclamide–sensitive K channels in smooth muscle cells of pig proximal urethra. Teramoto N, et al.
Br J Pharmacol 1996 Jun;118(3):635–42

Myocardial ischemia/reperfusion protection using monophosphoryl lipid A is abrogated by the ATP–sensitive potassium channel blocker, glibenclamide. Elliott GT, et al. **Cardiovasc Res** 1996 Dec;32(6):1071–80

Inhibitory effects of glibenclamide on cystic fibrosis transmembrane regulator, swelling–activated, and Ca(2+)–activated Cl– channels in mammalian cardiac myocytes. Yamazaki J, et al. **Circ Res** 1997 Jul;81(1):101–9

Increased tolerance of the chronically hypoxic immature heart to ischemia. Contribution of the KATP channel. Baker JE, et al. **Circulation** 1997 Mar 4;95(5):1278–85

Acute effects of oral glibenclamide on blood pressure and forearm vascular resistance in diabetics. Sundaresan P, et al. **Clin Exp Pharmacol Physiol** 1997 May;24(5):333–5

Coadministration of glyburide and minoxidil, drugs with opposing effects on potassium channels. Stein CM, et al.
Clin Pharmacol Ther 1997 Jun;61(6):662–8

Interaction of sulphonylurea derivatives with vascular ATP–sensitive potassium channels in humans [published erratum appears in Diabetologia 1996 Nov;39(11):1414] Bijlstra PJ, et al. **Diabetologia** 1996 Sep;39(9):1083–90

Blockade of vascular ATP–sensitive potassium channels reduces the vasodilator response to ischaemia in humans. Bijlstra PJ, et al. **Diabetologia** 1996 Dec;39(12):1562–8

Involvement of glibenclamide–sensitive potassium channels in vasorelaxation by cochlear nerve stimulation. Szilvassy J, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S6–8

Concerning the effect of the K+ channel blocking agent glibenclamide on ischaemic and reperfusion arrhythmias. Bernauer W. **Eur J Pharmacol** 1997 May 20; 326(2–3):147–56

Dual effect of glyburide, an antagonist of KATP channels, on metabolic inhibition–induced Ca2+ loading in cardiomyocytes. Brady PA, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):343–9

Involvement of ATP–sensitive K+ channels in the inhibitory effect of calcitonin gene–related peptide on neurotransmission in rat vas deferens. Huang Y, et al.
Eur J Pharmacol 1997 May 30;327(2–3):209–14

In vitro hypoxia on rat pulmonary artery: effects on contractions to spasmogens and role of KATP channels. Wanstall JC, et al. **Eur J Pharmacol** 1996 May 6; 303(1–2):71–8

Effect of the sulfonylurea glyburide on superoxide dismutase in streptozotocin–induced diabetic rat muscle. Altan N, et al. **Gen Pharmacol** 1997 May;28(5):795–6

Glibenclamide inhibits mitochondrial K+ and Na+ uniports induced by magnesium depletion. Szewczyk A, et al.
Int J Biochem Cell Biol 1996 Aug;28(8):863–71

Glyburide–reversible cardioprotective effects of BMS–180448: functional and energetic considerations. Grover GJ, et al. **J Cardiovasc Pharmacol** 1997 Jan; 29(1):28–38

ATP–sensitive potassium channels in isolated rat aorta during physiologic, hypoxic, and low–glucose conditions. Hüsken BC, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):130–5

In swine myocardium, the infarct size reduction induced by U–89232 is glibenclamide sensitive: evidence that U–89232 is a cardioselective opener of ATP–sensitive potassium channels. Rohmann S, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):69–74

Regional hemodynamic dose–response of lemakalim and glybenclamide in anesthetized rats. Smits GJ, et al.
J Cardiovasc Pharmacol 1997 Jan;29(1):49–56

Glibenclamide, a specific inhibitor of ATP–sensitive K+ channels, inhibits coronary vasodilation induced by angiotensin II–receptor antagonists. Tada H, et al.
J Cardiovasc Pharmacol 1997 Sep;30(3):313–9

Glyburide enhancement of lactate production in ischemic heart is modified by preconditioning: an in vivo experimental study in pigs by microdialysis technique. Wikström BG, et al. **J Cardiovasc Pharmacol** 1996 May; 27(5):622–8

Effects of glibenclamide and nicorandil in post–ischaemic contractile dysfunction of perfused hearts in normotensive and spontaneously hypertensive rats. Nakagawa C, et al.
J Hypertens 1996 Jul;14(7):921–6

Kinetic analysis of the inhibitory effect of glibenclamide on KATP channels of mammalian skeletal muscle. Barrett–Jolley R, et al. **J Membr Biol** 1997 Feb 1; 155(3):257–62

Effects of cromakalim and glibenclamide on myocardial high energy phosphates and intracellular pH during ischemia–reperfusion: 31P NMR studies. Docherty JC, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1665–73

Glibenclamide antagonizes the inhibitory effect of morphine on gall bladder emptying. Patil BM, et al.
J Pharm Pharmacol 1996 Mar;48(3):320–2

Effect of timing of treatment of the glyburide–reversible cardioprotective activity of BMS–180448. Gomoll AW, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):24–33

Nicorandil activates glibenclamide–sensitive K+ channels in smooth muscle cells of pig proximal urethra. Teramoto N, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):483–91

GLYBURIDE

Inhibitory effects of glibenclamide and pertussis toxin on the attenuation of ischemia-induced myocardial acidosis following ischemic preconditioning in dogs. Miura K, et al. **Jpn Circ J** 1997 Aug;61(8):709-14

Effect of potassium channel modulators on male sexual behavior. Benelli A, et al. **Life Sci** 1997;60(4-5):263-7

Drug interaction: rifampicin and glibenclamide. Surekha V, et al. **Natl Med J India** 1997 Jan-Feb;10(1):11-2

Activators of protein kinase A induce a glibenclamide-sensitive 86Rb+ efflux in rat isolated aorta. Kessler C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr;355(4):483-90

Sulphonylureas reverse hypoxia induced K(+)-conductance increase in substantia nigra pars reticulata neurones. Wu CW, et al. **Neuroreport** 1996 Nov 4;7(15-17):2513-7

Glibenclamide suppresses stretch-activated ANP secretion: involvements of K+ATP channels and L-type Ca2+ channel modulation. Kim SH, et al. **Pflugers Arch** 1997 Aug;434(4):362-72

Additive effects of glyburide and antidepressants in the forced swimming test: evidence for the involvement of potassium channel blockade. Guo W, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):725-30

Nadolol-glibenclamide interaction: relevance to carbohydrate metabolism in hyperglycaemic rats. Abdel Aziz AH, et al. **Pharmacol Res** 1996 Jul-Aug;34(1-2):11-5

Effects of cromakalim, pinacidil and glibenclamide on cholinergic transmission in rat isolated atria. Fabiani ME, et al. **Pharmacol Res** 1995 Sep;32(3):155-63

Regulation of glibenclamide receptors in cultured chick cardiomyocytes. Lu C, et al. **Pharmacol Res** 1995 Sep; 32(3):149-53

Sensitivity of a renal K+ channel (ROMK2) to the inhibitory sulfonylurea compound glibenclamide is enhanced by coexpression with the ATP-binding cassette transporter cystic fibrosis transmembrane regulator. McNicholas CM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8083-8

Possible interaction between cyclosporine and glibenclamide in posttransplant diabetic patients. Islam SI, et al. **Ther Drug Monit** 1996 Oct;18(5):624-6

Cardiovascular responses to glibenclamide during endotoxaemia in the pig. Vanelli G, et al. **Vet Res Commun** 1997 Apr;21(3):187-200

THERAPEUTIC USE

Effect of acarbose on blood glucose profiles and plasma 1,5-anhydro-d-glucitol in type 2 diabetes poorly controlled by sulfonylurea therapy. Hotta N, et al. **Biomed Pharmacother** 1996;50(6-7):297-302

Glucagon-like peptide I enhances the insulinotropic effect of glibenclamide in NIDDM patients and in the perfused rat pancreas. Gutniak MK, et al. **Diabetes Care** 1996 Aug; 19(8):857-63

The efficacy and safety of miglitol therapy compared with glibenclamide in patients with NIDDM inadequately controlled by diet alone. Segal P, et al. **Diabetes Care** 1997 May;20(5):687-91

Comparative effects of glibenclamide and metformin on ambulatory blood pressure and cardiovascular reactivity in NIDDM. Sundaresan P, et al. **Diabetes Care** 1997 May; 20(5):692-7

Sulfonylurea treatment prevents recurrence of hyperglycemia in obese African-American patients with a history of hyperglycemic crises. Umpierrez GE, et al. **Diabetes Care** 1997 Apr;20(4):479-83

Influence of oral antidiabetic treatment on electrocardiac alterations induced by myocardial infarction. Lomuscio A, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S21-6

NIDDM: a rapid progressive disease. Results from a long-term, randomised, comparative study of insulin or sulphonylurea treatment. Birkeland KI, et al. **Diabetologia** 1996 Dec;39(12):1629-33

Clinical evaluation of glimepiride versus glyburide in NIDDM in a double-blind comparative study. Glimepiride/Glyburide Research Group. Dills DG, et al. **Horm Metab Res** 1996 Sep;28(9):426-9

Long-term treatment of type 2 diabetic patients with the new oral antidiabetic agent glimepiride (Amaryl): a double-blind comparison with glibenclamide. Draeger KE, et al. **Horm Metab Res** 1996 Sep;28(9):419-25

The effects of acute exercise on metabolic control in type II diabetic patients treated with glimepiride or glibenclamide. Massi-Benedetti M, et al. **Horm Metab Res** 1996 Sep;28(9):451-5

Eprosartan, an angiotensin II receptor antagonist, does not affect the pharmacodynamics of glyburide in patients with type II diabetes mellitus. Martin DE, et al. **J Clin Pharmacol** 1997 Feb;37(2):155-9

Effect of alpha-glucosidase inhibitor in combination with sulphonylurea compounds on lipid profile in patients with non-insulin-dependent diabetes mellitus. Okada S, et al. **J Int Med Res** 1995 Nov-Dec;23(6):492-6

GLYCANS see **POLYSACCHARIDES**

GLYCATION END PRODUCTS, ADVANCED see **GLYCOSYLATION END PRODUCTS, ADVANCED**

GLYCERALDEHYDE

ANALOGS & DERIVATIVES

3-Hydroxypropionaldehyde, an inhibitory metabolite of glycerol fermentation to 1,3-propanediol by enterobacterial species. Barbirato F, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1448-51

3-Amino-2-hydroxy-propionaldehyde and 3-amino-1-hydroxy-propan-2-one derivatives: new classes of aminopeptidase inhibitors. Tarnus C, et al. **Bioorg Med Chem** 1996 Aug;4(8):1287-97

PHARMACOLOGY

Interaction of aldehydes with glyoxalase I and the status of several aldehyde metabolizing enzymes of Ehrlich ascites carcinoma cells. Biswas S, et al. **Mol Cell Biochem** 1996 Dec 6;165(1):9-16

GLYCERALDEHYDE 3-PHOSPHATE

ANALYSIS

Sampling tube device for monitoring intracellular metabolite dynamics. Weuster-Botz D. **Anal Biochem** 1997 Mar 15; 246(2):225-33

CHEMISTRY

Ab initio models for receptor-ligand interactions in proteins. 4. Model assembly study of the catalytic mechanism of triosephosphate isomerase. Peräkylä M, et al. **Proteins** 1996 Jun;25(2):225-36

GLYCERALDEHYDEPHOSPHATE DEHYDROGENASE

ANTAGONISTS & INHIBITORS

Glutathione redox cycle regulates nitric oxide-mediated glyceraldehyde-3-phosphate dehydrogenase inhibition. Padgett CM, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C99-108

The rational design of trypanocidal drugs: selective inhibition of the glyceraldehyde-3-phosphate dehydrogenase in Trypanosomatidae. Callens M, et al. **Ann Trop Med Parasitol** 1995 Dec;89 Suppl 1:23-30 (25 ref.)

Neuronal apoptosis by glial NO: involvement of inhibition of glyceraldehyde-3-phosphate dehydrogenase. Nomura Y, et al. **Hum Cell** 1996 Sep;9(3):205-14

BIOSYNTHESIS

Pancreatic GAPDH gene expression during ontogeny and acute pancreatitis induced by caerulein. Calvo EL, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):636-40

Overexpression of glyceraldehyde-3-phosphate dehydrogenase is involved in low K+-induced apoptosis but not necrosis of cultured cerebellar granule cells. Ishitani R, et al. **Mol Pharmacol** 1997 Apr;51(4):542-50

Molecular characterization and promoter analysis of the maize cytosolic glyceraldehyde 3-phosphate dehydrogenase gene family and its expression during anoxia. Manjunath S, et al. **Plant Mol Biol** 1997 Jan; 33(1):97-112

BLOOD

Reaction of ozone with enzymes of erythrocyte membranes. Mudd JB, et al. **Arch Biochem Biophys** 1996 Nov 1; 335(1):145-51

CHEMISTRY

Does DsbA have chaperone-like activity? Zheng WD, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):326-31

Formation of homo- and heterooligomeric supramolecular structures by D-glyceraldehyde-3-phosphate dehydrogenase and lactate dehydrogenase in reversed micelles of aerosol OT in octane. Levashov AV, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):527-34

Pressure-induced dissociation of yeast glyceraldehyde-3-phosphate dehydrogenase: heterogeneous kinetics and perturbations of subunit structure. Cioni P, et al. **Biochemistry** 1997 Jul 15; 36(28):8586-93

Memory and imprinting effects in multienzyme complexes--I. Isolation, dissociation, and reassociation of a phosphoribulokinase-glyceraldehyde-3-phosphate dehydrogenase complex from Chlamydomonas reinhardtii chloroplasts. Avilan L, et al. **Eur J Biochem** 1997 May 15;246(1):78-84

Glutathione conjugates recognize the Rossmann fold of glyceraldehyde-3-phosphate dehydrogenase. Puder M, et al. **J Biol Chem** 1997 Apr 18;272(16):10936-40

A crystallographic comparison between mutated glyceraldehyde-3-phosphate dehydrogenases from Bacillus stearothermophilus complexed with either NAD+ or NADP+. Didierjean C, et al. **J Mol Biol** 1997 May 16; 268(4):739-59

Functional studies of chloroplast glyceraldehyde-3-phosphate dehydrogenase subunits A and B expressed in Escherichia coli: formation of highly active A4 and B4 homotetramers and evidence that aggregation of the B4 complex is mediated by the B subunit carboxy terminus. Baalmann E, et al. **Plant Mol Biol** 1996 Nov;32(3):505-13

GENETICS

Oxidative stress increases glyceraldehyde-3-phosphate dehydrogenase mRNA levels in isolated rabbit aorta. Ito Y, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H81-7

Control genes for reverse-transcription-polymerase chain reaction: a comparison of beta actin and glyceraldehyde phosphate dehydrogenase [letter; comment] Soutar RL, et al. **Br J Haematol** 1997 Apr;97(1):247-8. Comment on: Br J Haematol 1994 May;87(1):218.

Disparate sequence characteristics of the Erysiphe graminis f.sp. hordei glyceraldehyde-3-phosphate dehydrogenase gene. Christiansen SK, et al. **Curr Genet** 1997 Jun; 31(6):525-9

Internal marker for quantitative analysis of mRNA by reverse transcriptase-polymerase chain reaction in pancreatic beta cells [letter] Yamato E, et al. **Diabetologia** 1996 Jun; 39(6):747-8

Multiplex reverse transcription polymerase chain reaction combined with temperature gradient gel electrophoresis as a tool for the normalized quantitation of intrinsic factor mRNA. Solch JP, et al. **Electrophoresis** 1996 Jan;17(1):30-9

Glycolytic enzyme operon of Borrelia burgdorferi: characterization and evolutionary implications. Gebbia JA, et al. **Gene** 1997 Apr 1;188(2):221-8

Occurrence of a differential expression of the glyceraldehyde-3-phosphate dehydrogenase gene in muscle and liver from euthermic and induced hibernating jerboa (Jaculus orientalis). Soukri A, et al. **Gene** 1996 Nov 28;181(1-2):139-45

Isolation of the Pichia pastoris glyceraldehyde-3-phosphate dehydrogenase gene and regulation and use of its promoter. Waterham HR, et al. **Gene** 1997 Feb 20;186(1):37-44

Site-specific codon bias in bacteria. Smith JM, et al. **Genetics** 1996 Mar;142(3):1037-43

Spinocerebellar ataxia type-1 and spinobulbar muscular atrophy gene products interact with glyceraldehyde-3-phosphate dehydrogenase. Koshy B, et al. **Hum Mol Genet** 1996 Sep;5(9):1311-8

Functional complementation of an Escherichia coli gap mutant supports an amphibolic role for NAD(P)-dependent glyceraldehyde-3-phosphate dehydrogenase of Synechocystis sp. strain PCC 6803. Valverde F, et al. **J Bacteriol** 1997 Jul;179(14):4513-22

Evidence for the Heterolobosea from phylogenetic analysis of genes encoding glyceraldehyde-3-phosphate dehydrogenase. Roger AJ, et al. **J Eukaryot Microbiol** 1996 Nov-Dec;43(6):475-85

Primary structure and phylogenetic relationships of glyceraldehyde-3-phosphate dehydrogenase genes of free-living and parasitic diplomonad flagellates. Rozario C, et al. **J Eukaryot Microbiol** 1996 Jul-Aug;43(4):330-40

Evolutionary origin of cryptomonad microalgae: two novel chloroplast/cytosol-specific GAPDH genes as potential markers of ancestral endosymbiont and host cell components. Liaud MF, et al. **J Mol Evol** 1997;44 Suppl 1:S28-37

A second Escherichia coli gene with similarity to gapA. Hidalgo E, et al. **Microbiologia** 1996 Mar;12(1):99-106

Molecular characterization and promoter analysis of the maize cytosolic glyceraldehyde 3-phosphate dehydrogenase gene family and its expression during anoxia. Manjunath S, et al. **Plant Mol Biol** 1997 Jan; 33(1):97-112

CP12: a small nuclear-encoded chloroplast protein provides novel insights into higher-plant GAPDH evolution. Pohlmeyer K, et al. **Plant Mol Biol** 1996 Dec;32(5):969-78

Cis-acting elements essential for light regulation of the nuclear gene encoding the A subunit of chloroplast glyceraldehyde 3-phosphate dehydrogenase in Arabidopsis thaliana. Park SC, et al. **Plant Physiol** 1996 Dec; 112(4):1563-71

IMMUNOLOGY

The glycolytic enzyme glyceraldehyde-3-phosphate dehydrogenase of Candida albicans is a surface antigen. Gil-Navarro I, et al. **J Bacteriol** 1997 Aug;179(16):4992-9

ISOLATION & PURIFICATION

Purification of phosphoglycerate kinase and glyceraldehyde phosphate dehydrogenase by DEAE-sepharose fast flow chromatography. Tan T, et al. **Chin J Biotechnol** 1996; 12(4):257-61

Copurification of vimentin, energy metabolism enzymes, and a MER5 homolog with nucleoside diphosphate kinase. Identification of tissue-specific interactions. Otero AS. **J Biol Chem** 1997 Jun 6;272(23):14690-4

METABOLISM

Interaction of NAD-dependent dehydrogenases with human erythrocyte membranes. Evidence that D-glyceraldehyde-3-phosphate dehydrogenase and lactate dehydrogenase are catalytically active in a membrane-bound state. Muronetz VI, et al. **Appl Biochem Biotechnol** 1996 Oct-Nov;61(1-2):39-46

D-glyceraldehyde-3-phosphate dehydrogenase. Properties

of the enzyme modified at arginine residues. Nagradova NK, et al. **Appl Biochem Biotechnol** 1996 Oct-Nov; 61(1-2):47-56

A study on the complexes between human erythrocyte enzymes participating in the conversions of 1,3-diphosphoglycerate. Fokina KV, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):185-92

4-Hydroxy-2-nonenal cytotoxicity in renal proximal tubular cells: protein modification and redox alteration. Fukuda A, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):419-26

Interaction between D-glyceraldehyde-3-phosphate dehydrogenase and calmodulin. Christova TY, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):272-7

Purification of a dichlorophenol-indophenol oxidoreductase from rat and bovine synaptic membranes: tight complex association of a glyceraldehyde-3-phosphate dehydrogenase isoform, TOAD64, enolase-gamma and aldolase C. Bulliard C, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):555-63

Nitric oxide-dependent NAD linkage to glyceraldehyde-3-phosphate dehydrogenase: possible involvement of a cysteine thiyl radical intermediate. Minetti M, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):369-75

Interactions of aldolase and glyceraldehyde-3-phosphate dehydrogenase: molecular mass studies. Lal AK, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):507-15

Effect of thiols on fructosamine assay. Liu W, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):277-83

Phosphatidylserine directs differential phosphorylation of actin and glyceraldehyde-3-phosphate dehydrogenase by protein kinase C: possible implications for regulation of actin polymerization. Reiss N, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1191-200

Pressure-induced dissociation of yeast glyceraldehyde-3-phosphate dehydrogenase: heterogeneous kinetics and perturbations of subunit structure. Cioni P, et al. **Biochemistry** 1997 Jul 15; 36(28):8586-93

Effects of NAD+ binding on the luminescence of tryptophans 84 and 310 of glyceraldehyde-3-phosphate dehydrogenase from Bacillus stearothermophilus. Gabellieri E, et al. **Biochemistry** 1996 Sep 24; 35(38):12549-59

Molecular distances from dipolar coupled spin-labels: the global analysis of multifrequency continuous wave electron paramagnetic resonance data. Hustedt EJ, et al. **Biophys J** 1997 Apr;72(4):1861-77

Inhibition of glyceraldehyde-3-phosphate dehydrogenase in post-ischaemic myocardium. Knight RJ, et al. **Cardiovasc Res** 1996 Dec;32(6):1016-23

Glyceraldehyde-3-phosphate dehydrogenase activity and F-actin associations in synaptosomes and postsynaptic densities of porcine cerebral cortex. Rogalski-Wilk AA, et al. **Cell Mol Neurobiol** 1997 Feb;17(1):51-70

Memory and imprinting effects in multienzyme complexes--II. Kinetics of the bienzyme complex from Chlamydomonas reinhardtii and hysteretic activation of chloroplast oxidized phosphoribulokinase. Lebreton S, et al. **Eur J Biochem** 1997 May 15;246(1):85-91

Expression of glyceraldehyde-3-phosphate dehydrogenase during differentiation of HD3 cells. Grdiša M, et al. **Eur J Cell Biol** 1996 Oct;71(2):177-82

Modification of macrophage glyceraldehyde-3-phosphate dehydrogenase in response to nitric oxide. Messmer UK, et al. **Eur J Pharmacol** 1996 Apr 29;302(1-3):171-82

Rabbit muscle GAPDH: non-phosphorylating dehydrogenase activity induced by hydrogen peroxide. Schmalhausen EV, et al. **FEBS Lett** 1997 Sep 8; 414(2):247-52

The glycolytic enzyme glyceraldehyde-3-phosphate dehydrogenase of Candida albicans is a surface antigen. Gil-Navarro I, et al. **J Bacteriol** 1997 Aug;179(16):4992-9

Characterization of Escherichia coli strains with gapA and gapB genes deleted. Seta FD, et al. **J Bacteriol** 1997 Aug; 179(16):5218-21

Functional complementation of an Escherichia coli gap mutant supports an amphibolic role for NAD(P)-dependent glyceraldehyde-3-phosphate dehydrogenase of Synechocystis sp. strain PCC 6803. Valverde F, et al. **J Bacteriol** 1997 Jul;179(14):4513-22

Application of short column gel permeation in the study of protein-protein interactions. Malhotra OP, et al. **J Biochem Biophys Methods** 1996 Jan 11;31(1-2):23-30

Comparative enzymatic properties of GapB-encoded erythrose-4-phosphate dehydrogenase of Escherichia coli and phosphorylating glyceraldehyde-3-phosphate dehydrogenase. Boschi-Muller S, et al. **J Biol Chem** 1997 Jun 13;272(24):15106-12

Specific interaction in vitro and in vivo of glyceraldehyde-3-phosphate dehydrogenase and LA protein with cis-acting RNAs of human parainfluenza virus type 3. De BP, et al. **J Biol Chem** 1996 Oct 4; 271(40):24728-35

Characterization of chemical inhibitors of brefeldin A-activated mono-ADP-ribosylation. Weigert R, et al. **J Biol Chem** 1997 May 30;272(22):14200-7

Glyceraldehyde 3-phosphate dehydrogenase is bound to the fibrous sheath of mammalian spermatozoa. Westhoff D, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1821-9

Nitric oxide-induced covalent modification of glycolytic enzyme glyceraldehyde-3-phosphate dehydrogenase. Brüne B, et al. **Methods Enzymol** 1996;269:400-7 (18 ref.)

Antibodies to amyloid beta protein (A beta) crossreact with glyceraldehyde-3-phosphate dehydrogenase (GAPDH). Tamaoka A, et al. **Neurobiol Aging** 1996 May-Jun; 17(3):405-14

Glycolytic enzyme binding during entrance to daily torpor in deer mice (Peromyscus maniculatus). Nestler JR, et al. **Physiol Zool** 1997 Jan-Feb;70(1):61-7

Phylogenetic analysis of glycolytic enzyme expression [see comments] Pierce VA, et al. **Science** 1997 Apr 11; 276(5310):256-9. Comment in: Science 1997 Apr 11;276(5310):218-9.

[Effect of erythrocyte membranes and tubulin on the activity of NAD-dependent dehydrogenases] Shcherbatova NA, et al. **Biokhimiia** 1996 Aug;61(8):1512-25 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Role of the glycolytic protein, glyceraldehyde-3-phosphate dehydrogenase, in normal cell function and in cell pathology. Sirover MA. **J Cell Biochem** 1997 Aug 1; 66(2):133-40 (46 ref.)

Evidence that glyceraldehyde-3-phosphate dehydrogenase is involved in age-induced apoptosis in mature cerebellar neurons in culture. Ishitani R, et al. **J Neurochem** 1996 Mar;66(3):928-35

GLYCERATE (3-2)-PHOSPHOMUTASE see **PHOSPHOGLYCERATE MUTASE**

GLYCERIC ACIDS

ANALYSIS

Sampling tube device for monitoring intracellular metabolite dynamics. Weuster-Botz D. **Anal Biochem** 1997 Mar 15; 246(2):225-33

CHEMISTRY

Structure of a product complex of spinach ribulose-1,5-bisphosphate carboxylase/oxygenase. Taylor TC, et al. **Biochemistry** 1997 Apr 1;36(13):4041-6

URINE

Extraction of glyceric and glycolic acids from urine with tetrahydrofuran: utility in detection of primary hyperoxaluria. Dietzen DJ, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1315-20

GLYCERIDES

Induced termination of pregnancy by purified extracts of Azadirachta Indica (Neem): mechanisms involved. Talwar GP, et al. **Am J Reprod Immunol** 1997 Jun;37(6):485-91

The use of nicotinates and sulfoquinovosyl monoacylglycerols in the analysis of monounsaturated n-3 fatty acids by mass spectrometry. Keusgen M, et al. **Lipids** 1996 Feb;31(2):231-8

The in vitro release of some antimuscarinic drugs from monoolein/water lyotropic liquid crystalline gels. Geraghty PB, et al. **Pharm Res** 1996 Aug;13(8):1265-71

ADMINISTRATION & DOSAGE

Use of neem oil as a mosquito repellent in tribal villages of mandla district, madhya pradesh. Mishra AK, et al. **Indian J Malariol** 1995 Sep;32(3):99-103

Use of neem cream as a mosquito repellent in tribal areas of central India. Singh N, et al. **Indian J Malariol** 1996 Jun;33(2):99-102

ADVERSE EFFECTS

The 4-hour glove for epoxy and acrylic monomer (dental and orthopedic personnel) and glyceryl monothioglycolate (hairdressers) [news] Fisher AA. **Cutis** 1997 May; 59(5):235-6

Preliminary evaluation of safety aspects of neem oil in kerosene lamp. Valecha N, et al. **Indian J Malariol** 1996 Sep;33(3):139-43

ANALYSIS

Influence of plasma composition on erythrocyte filtrability in alcoholic liver disease. Shiraishi K, et al. **Alcohol Alcohol** 1994;29 Suppl 1:1-4

A second endogenous cannabinoid that modulates long-term potentiation. Stella N, et al. **Nature** 1997 Aug 21; 388(6644):773-8

BIOSYNTHESIS

Triacsin C blocks de novo synthesis of glycerolipids and cholesterol esters but not recycling of fatty acid into phospholipid: evidence for functionally separate pools of acyl-CoA. Igal RA, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):529-34

CHEMICAL SYNTHESIS

Lipase-catalyzed monoesterification of 1-O-hexadecylglycerol in organic solvents. Bertello LE, et al. **Lipids** 1997 Aug;32(8):907-11

CHEMISTRY

The inner membrane barrier of lipid membranes experienced by the valinomycin/Rb+ complex: charge pulse experiments at high membrane voltages. Bihler H, et al. **Biophys J** 1997 Aug;73(2):746-56

Effects of distearoylphosphatidylglycerol and lysozyme on the structure of the monoolein-water cubic phase: X-ray diffraction and Raman scattering studies. Razumas V, et al. **Chem Phys Lipids** 1996 Dec 20;84(2):123-88

Monoglycerides in membrane systems. Boyle E, et al. **Crit Rev Food Sci Nutr** 1996 Dec;36(8):785-805 (69 ref.)

O/w-emulsion of alpha-linolenic acid stabilized with hydrophobized polysaccharide. Its effect on the growth of human colon cancer cells. Fukui H, et al. **J Biomater Sci Polym Ed** 1996;7(10):829-38

Monoacylglycerols alter the lipid composition and molecular mobility of phosphatidylcholine bilayers: 13C NMR evidence of dynamic lipid remodeling. Boyle E, et al. **J Lipid Res** 1996 Apr;37(4):764-72

Swelling of and drug release from monoglyceride-based drug delivery systems. Chang CM, et al. **J Pharm Sci** 1997 Jun; 86(6):747-52

An improved method for rapid analysis of the fatty acids of glycerolipids [published erratum appears in Lipids 1996 Aug;31(8):889] Ichihara K, et al. **Lipids** 1996 May; 31(5):535-9

IMMUNOLOGY

Plant immunomodulators for termination of unwanted pregnancy and for contraception and reproductive health. Talwar GP, et al. **Immunol Cell Biol** 1997 Apr;75(2):190-2

ISOLATION & PURIFICATION

Biologically active acylglycerides from the berries of saw-palmetto (Serenoa repens). Shimada H, et al. **J Nat Prod** 1997 Apr;60(4):417-8

METABOLISM

Colonic xanthelasma due to glyceride accumulation associated with an adenoma. Boruchowicz A, et al. **Am J Gastroenterol** 1997 Jan;92(1):159-61

Potential biosynthetic connections between the two cannabimimetic eicosanoids, anandamide and 2-arachidonoyl-glycerol, in mouse neuroblastoma cells. Di Marzo V, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):281-8

Biosynthesis, release and degradation of the novel endogenous cannabimimetic metabolite 2-arachidonoylglycerol in mouse neuroblastoma cells. Bisogno T, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):671-7

Encapsulation of hemoglobin in a bicontinuous cubic phase lipid. Lesile SB, et al. **Biochim Biophys Acta** 1996 Dec 4; 1285(2):246-54

An investigation of the parameters influencing the bioadhesive properties of Myverol 18-99/water gels. Geraghty PB, et al. **Biomaterials** 1997 Jan;18(1):63-7

PHARMACOLOGY

Susceptibility of Helicobacter pylori to bactericidal properties of medium-chain monoglycerides and free fatty acids. Petschow BW, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):302-6

Inhibition by 2-arachidonoylglycerol, a novel type of possible neuromodulator, of the depolarization-induced increase in intracellular free calcium in neuroblastoma x glioma hybrid NG108-15 cells. Sugiura T, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):207-10

2-Arachidonoylglycerol, a putative endogenous cannabinoid receptor ligand, induces rapid, transient elevation of intracellular free Ca2+ in neuroblastoma x glioma hybrid NG108-15 cells. Sugiura T, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):58-64

Mechanism of action of NIM-76: a novel vaginal contraceptive from neem oil. Sharma SK, et al. **Contraception** 1996 Dec;54(6):373-8

Monoglycerides in membrane systems. Boyle E, et al. **Crit Rev Food Sci Nutr** 1996 Dec;36(8):785-805 (69 ref.)

In vitro study comparing the ability of mono-octanoin and mono-octanoin plus methyl tert-butyl ether to dissolve biliary stones. Tritapepe R, et al. **Ital J Gastroenterol** 1996 Jan;28(1):20-4

Contraception potential of neem oil: effect on pregnancy success in the mouse. Juneja SC, et al. **J Assist Reprod Genet** 1996 Aug;13(7):578-85

Immunomodulatory effects of NIM-76, a volatile fraction from Neem oil. SaiRam M, et al. **J Ethnopharmacol** 1997 Jan;55(2):133-9

Biosynthesis of plasmenylethanolamine (1-O-alk-1'-enyl-2-acyl-sn-glycero-3-phosphoethanolamine) in the guinea pig heart. Xu FY, et al. **J Lipid Res** 1997 Apr;38(4):670-9

Effect of volatiles from neem and other natural products on gonotrophic cycle and oviposition of Anopheles stephensi and An. culicifacies (Diptera: Culicidae). Dhar R, et al. **J Med Entomol** 1996 Mar;33(2):195-201

Enhancing effects of monohexanoin and two other medium-chain glyceride vehicles on intestinal absorption of desmopressin (dDAVP). Lundin PD, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):585-90

Dodecylglycerol provides partial protection against

GLYCERIDES

glutamate toxicity in neuronal cultures derived from different regions of embryonic rat brain. Dave JR, et al. **Mol Chem Neuropathol** 1997 Jan-Feb;30(1-2):1-13

Bioavailability of cyclosporine in rats after intragastric administration: a comparative study of the L2-phase and two other lipid-based vehicles. Bojrup M, et al. **Transpl Immunol** 1996 Dec;4(4):313-7

PHYSIOLOGY

Monoglycerides in membrane systems. Boyle E, et al. **Crit Rev Food Sci Nutr** 1996 Dec;36(8):785-805 (69 ref.)

Lipid biochemistry: functions of glycerolipids and sphingolipids in cellular signaling. Ghosh S, et al. **FASEB J** 1997 Jan;11(1):45-50 (55 ref.)

TOXICITY

Evaluation of the acute toxicity to juvenile pacific northwest salmon of azadirachtin, neem extract, and neem-based products. Wan MT, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):432-9

GLYCERIN

Addition of glycerol during DNA exposure enhances calcium phosphate transfection. Wilson SP, et al. **Anal Biochem** 1997 Mar 1;246(1):148-50

Electrical impedance of the cochlear implant lubricants hyaluronic acid, oxycellulose, and glycerin. Mens LH, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):653-6

High-efficiency stable DNA transfection using cationic detergent and glycerol. Li S, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):531-4

Ca(2+)-induced tension development in the stalks of glycerinated Vorticella convallaria. Moriyama Y, et al. **Cell Motil Cytoskeleton** 1996;34(4):271-8

Conditions for single strand conformation polymorphism (SSCP)analysis with broad applicability: a study on the effects of acrylamide, buffer and glycerol concentrations in SSCP analysis of exons of the p53 gene). Teschauer W, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):125-31

The choice of therapy in medically intractable trigeminal neuralgia. Rappaport ZH. **Isr J Med Sci** 1996 Dec; 32(12):1232-4

Further animal and human experience with a 0.6% amino acid/1.4% glycerol peritoneal dialysis solution. Van Biesen W, et al. **Perit Dial Int** 1997;17 Suppl 2:S56-62

Cryopreservation of rooster semen in thirteen and sixteen percent glycerol. Gill SP, et al. **Poult Sci** 1996 Feb; 75(2):254-6

ADMINISTRATION & DOSAGE

Hemostasis at skin graft donor sites: evaluation of topical agents. Netscher DT, et al. **Ann Plast Surg** 1996 Jan; 36(1):7-10

ANALOGS & DERIVATIVES

The vehicle for cyclosporine is neurotoxic in vitro [letter; comment] Windebank AJ. **Ann Neurol** 1997 Apr; 41(4):563-4. Comment on: Ann Neurol 1996 Nov;40(5):750-8.

Cremophor EL reversed multidrug resistance in vitro but not in tumor-bearing mouse models. Watanabe T, et al. **Anticancer Drugs** 1996 Nov;7(8):825-32

Inhibition of microbial lipases with stereoisomeric triradylglycerol analog phosphonates. Stadler P, et al. **Biochim Biophys Acta** 1996 Dec 13;1304(3):229-44

Differential activity of Cremophor EL and paclitaxel in patients' tumor cells and human carcinoma cell lines in vitro. Csóka K, et al. **Cancer** 1997 Mar 15;79(6):1225-33

Determination of polyoxyethyleneglycerol triricinoleate 35 (Cremophor EL) in plasma by pre-column derivatization and reversed-phase high-performance liquid chromatography. Sparreboom A, et al. **J Chromatogr B Biomed Appl** 1996 Jun 7;681(2):355-62

The responses of rat trigeminal ganglion neurons to capsaicin and two nonpungent vanilloid receptor agonists, olvanil and glyceryl nonamide. Liu L, et al. **J Neurosci** 1997 Jun 1;17(11):4101-11

Plasma vitamin K1 and PIVKA-II after oral administration of mixed-micellar or cremophor EL-solubilized preparations of vitamin K1 to normal breast-fed newborns. Schubiger G, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar; 24(3):280-4

Propofol pharmacokinetics and pharmacodynamics assessed from a cremophor EL formulation [letter] Dutta S, et al. **J Pharm Sci** 1997 Aug;86(8):967-9

Mechanistic roles of neutral surfactants on concurrent polarized and passive membrane transport of a model peptide in Caco-2 cells. Nerurkar MM, et al. **J Pharm Sci** 1997 Jul;86(7):813-21

Glyceryl nonivamide: a capsaicin derivative with cardiac calcitonin gene-related peptide releasing, K+ channel opening and vasorelaxant properties. Lo YC, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):253-60

Glyceryl nonivamide, a nonpungent analogue of capsaicin, enhances substance P release and renal function in rats. Lo YC, et al. **Pharmacology** 1997 Mar;54(3):127-34

ANALYSIS

Desensitization of human adipose tissue to adrenaline stimulation studied by microdialysis. Stallknecht B, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):271-82

Glycerol as a marker for post-traumatic membrane phospholipid degradation in rat brain. Marklund N, et al. **Neuroreport** 1997 Apr 14;8(6):1457-61

BLOOD

Red blood cell glycerol lysis and hematologic effects in occupational benzene exposure. Bogadi-Sare A, et al. **Toxicol Ind Health** 1997 Jul-Aug;13(4):485-94

CHEMISTRY

The influence of glycerol, propylene glycol and sorbitol on surface tension, partition coefficient and diffusion of pyrrolidinoethylester of 3-heptyloxy phenylcarbamic acid (drug XX Z). Vítková Z, et al. **Acta Pol Pharm** 1995 Nov-Dec;52(6):483-5

A method for determination of the absolute configuration of chiral glycerol residues in natural products using TEMPO oxidation and characterization of the glyceric acids formed. Rundlöf T, et al. **Anal Biochem** 1996 Dec 15;243(2):228-33

Glycerol backbone conformation in phosphatidylcholines is primarily determined by the intramolecular stacking of the vicinally arranged acyl chains. Arora A, et al. **Biochim Biophys Acta** 1997 Feb 21;1324(1):47-60

Novel thermal phase transition behavior of phosphatidylcholine analogs containing 1,2,4-butanetriol as their backbone. Arora A, et al. **Biochim Biophys Acta** 1997 Feb 21;1324(1):61-8

Glucogenesis in an insect, Manduca sexta L., estimated from the 13C isotopomer distribution in trehalose synthesized from [1,3-13C2]glycerol. Thompson SN. **Biochim Biophys Acta** 1997 Jul 19;1336(1):110-6

Interferences of glycerol, propylene glycol, and other diols in the enzymatic assay of ethylene glycol. Malandain H, et al. **Eur J Clin Chem Clin Biochem** 1996 Aug;34(8):651-4

Single crystals of V amylose complexed with glycerol. Hulleman SH, et al. **Int J Biol Macromol** 1996 Feb; 18(1-2):115-22

Characterization of novel long-chain 1,2-diols in Thermus species and demonstration that Thermus strains contain both glycerol-linked and diol-linked glycolipids. Wait R, et al. **J Bacteriol** 1997 Oct;179(19):6154-62

DIAGNOSTIC USE

Clinical application of transiently evoked otoacoustic emissions after glycerol administration for diagnosis of sensorineural hearing loss. Inoue Y, et al. **Auris Nasus Larynx** 1997 Apr;24(2):143-9

[Noninvasive determination of pressure relations of intracranial and intracochlear fluid spaces during the glycerol test in normal probands and patients with Menière's disease] Gosepath K, et al. **Laryngorhinootologie** 1996 Jul;75(7):384-7 (Eng. Abstr.) **(Ger)**

[The variation of the vestibular response vs. the variations of the auditory threshold after administration of glycerol in patients with Meniere's disease] Monini S, et al. **Acta Otorhinolaryngol Ital** 1995 Aug;15(4):273-8 (Eng. Abstr.) **(Ita)**

METABOLISM

Glycerol carbon contributes to hepatic glucose production during the first eight hours in healthy term infants. Sunehag A, et al. **Acta Paediatr** 1996 Nov;85(11):1339-43

Modulation of vascular tone and glycerol levels measured by in situ microdialysis in rat adipose tissue. Darimont C, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E631-5

Absolute concentrations of glycerol and lactate in human skeletal muscle, adipose tissue, and blood. Hagström-Toft E, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E584-92

Glycerol production and utilization in humans: sites and quantitation. Landau BR, et al. **Am J Physiol** 1996 Dec; 271(6 Pt 1):E1110-7

Contributions of liver and kidneys to glycerol production and utilization in the dog. Previs SF, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1118-24

Evidence for a phloretin-sensitive glycerol transport mechanism in the perfused rat liver. vom Dahl S, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G563-74

3-Hydroxypropionaldehyde, an inhibitory metabolite of glycerol fermentation to 1,3-propanediol by enterobacterial species. Barbirato F, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1448-51

Influence of invertase activity and glycerol synthesis and retention on fermentation of media with a high sugar concentration by Saccharomyces cerevisiae. Myers DK, et al. **Appl Environ Microbiol** 1997 Jan;63(1):145-50

Leishmania donovani possess a NADPH-dependent alkylglycerol cleavage enzyme. Ma D, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):885-9

Inhibition of glycerol metabolism in hepatocytes isolated from endotoxic rats. Leclercq P, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):519-25

Glycerol conversion to 1,3-propanediol by Clostridium pasteurianum: cloning and expression of the gene encoding 1,3-propanediol dehydrogenase. Luers F, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):337-45

Isolation and characterisation of mutants from the halotolerant yeast Pichia sorbitophila defective in H+/glycerol symport activity. Oliveira RP, et al. **FEMS Microbiol Lett** 1996 Sep 1;142(2-3):147-53

Stimulation of hepatocyte glycerolipid synthesis by iron/ADP is due to ADP rather than oxidative stress. Girón-Calle J, et al. **Free Radic Biol Med** 1997;23(1):173-6

Formate and ethanol are the major products of glycerol fermentation produced by a Klebsiella planticola strain isolated from red deer. Jarvis GN, et al. **J Appl Microbiol** 1997 Aug;83(2):166-74

Glycerol and other fermentation products of apiculate wine yeasts. Romano P, et al. **J Appl Microbiol** 1997 May; 82(5):615-8

The mitogen-activated protein kinase homolog HOG1 gene controls glycerol accumulation in the pathogenic fungus Candida albicans. San José C, et al. **J Bacteriol** 1996 Oct; 178(19):5850-2

Antimonite is accumulated by the glycerol facilitator GlpF in Escherichia coli. Sanders OI, et al. **J Bacteriol** 1997 May; 179(10):3365-7

Regulation of glycerol metabolism in Pseudomonas aeruginosa: characterization of the glpR repressor gene. Schweizer HP, et al. **J Bacteriol** 1996 Sep;178(17):5215-21

Cloning and functional expression of a new water channel abundantly expressed in the testis permeable to water, glycerol, and urea. Ishibashi K, et al. **J Biol Chem** 1997 Aug 15;272(33):20782-6

Metabolic and regulatory changes associated with growth of Saccharomyces cerevisiae in 1.4 M NaCl. Evidence for osmotic induction of glycerol dissimilation via the dihydroxyacetone pathway. Norbeck J, et al. **J Biol Chem** 1997 Feb 28;272(9):5544-54

Glycerol-assisted restorative adjustment of flavoenzyme conformation perturbed by site-directed mutagenesis. Raibekas AA, et al. **J Biol Chem** 1997 Aug 29; 272(35):22248-52

Water and glycerol permeabilities of aquaporins 1-5 and MIP determined quantitatively by expression of epitope-tagged constructs in Xenopus oocytes. Yang B, et al. **J Biol Chem** 1997 Jun 27;272(26):16140-6

Novel method for following lymphocyte traffic in mice using [3H]glycerol labeling. Constantin G, et al. **J Immunol Methods** 1997 Apr 11;203(1):35-44

Anaerobic pathways of glycerol dissimilation by Enterobacter agglomerans CNCM 1210: limitations and regulations. Barbirato F, et al. **Microbiology** 1997 Jul;143 (Pt 7):2423-32

Structure and gene-polypeptide relationships of the region encoding glycerol diffusion facilitator (glpF) and glycerol kinase (glpK) of Pseudomonas aeruginosa. Schweizer HP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1287-97

Use of a glycerol-limited, long-term chemostat for isolation of Escherichia coli mutants with improved physiological properties. Weikert C, et al. **Microbiology** 1997 May;143 (Pt 5):1567-74

Regulation of intracellular level of Na+, K+ and glycerol in Saccharomyces cerevisiae under osmotic stress. Sunder S, et al. **Mol Cell Biochem** 1996 May 24;158(2):121-4

Metabolic alterations in brain autopsies: proton NMR identification of free glycerol. Michaelis T, et al. **NMR Biomed** 1996 May;9(3):121-4

DNA strand transfer reactions catalyzed by vaccinia topoisomerase: hydrolysis and glycerololysis of the covalent protein-DNA intermediate. Petersen BO, et al. **Nucleic Acids Res** 1997 Jun 1;25(11):2091-7

Assessment of perioperative glycerol metabolism by stable isotope tracer technique. Schricker T, et al. **Nutrition** 1997 Mar;13(3):191-5

Extremely preterm infants (< 28 weeks) are capable of gluconeogenesis from glycerol on their first day of life. Sunehag A, et al. **Pediatr Res** 1996 Oct;40(4):553-7

Piroxicam inhibits epinephrine-induced stimulation of glycerol production in isolated rat adipocytes. Pimentel-Velazquez L, et al. **Proc West Pharmacol Soc** 1996;39:31-2

Enhancement of glycolysis and CO2 formation from glycerol by hydroxyl radical scavengers in rat hepatocytes. Gerber E, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct; 94(1):63-71

Oxidation of glycerol differentiates African from European isolates of Mycoplasma mycoides subspecies mycoides SC (small colony) [see comments] Houshaymi BM, et al. **Vet Rec** 1997 Feb 15;140(7):182-3. Comment in: Vet Rec 1997 Mar 29;140(13):348.

Modulation of glycerol and ethanol yields during alcoholic fermentation in Saccharomyces cerevisiae strains overexpressed or disrupted for GPD1 encoding glycerol 3-phosphate dehydrogenase. Michnick S, et al. **Yeast** 1997 Jul;13(9):783-93

Reduced pyruvate decarboxylase and increased glycerol-3-phosphate dehydrogenase [NAD+] levels enhance glycerol production in Saccharomyces cerevisiae. Nevoigt E, et al. **Yeast** 1996 Oct;12(13):1331-7

PHARMACOKINETICS

Contractile studies of single human skeletal muscle fibers: a comparison of different muscles, permeabilization procedures, and storage techniques. Frontera WR, et al. **Muscle Nerve** 1997 Aug;20(8):948-52

PHARMACOLOGY

Effect of glycerol on electrochemical composition of endolymph and perilymph in the rat. Morrison GA, et al. **Acta Otolaryngol (Stockh)** 1996 Jul;116(4):546–51

Glycerol increases content and activity of human cytochrome P-4502E1 in a transduced HepG2 cell line by protein stabilization. Yang MX, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):340–7

Presence of glycerol masks the effects of phosphorylation on the catalytic efficiency of cytosolic phospholipase A2. Burke JR, et al. **Arch Biochem Biophys** 1997 May 1; 341(1):177–85

Inhibition by polyols of the heat-shock-induced activation of trehalase in the yeast Zygosaccharomyces rouxii. Fernandez J, et al. **Biochem Mol Biol Int** 1996 Feb; 38(1):43–50

Mechanistic studies on full length and the catalytic domain of the tandem SH2 domain–containing protein tyrosine phosphatase: analysis of phosphoenzyme levels and Vmax stimulatory effects of glycerol and of a phosphotyrosyl peptide ligand. Wang J, et al. **Biochemistry** 1997 Mar 11; 36(10):2993–9

An electron paramagnetic resonance study on the mechanism-based inactivation of adenosylcobalamin–dependent diol dehydrase by glycerol and other substrates. Toraya T, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):11–6

Effects of hyperosmotic NaCl and glycerol stress on stress response of human HeLa cells. Hatayama T, et al. **Biol Pharm Bull** 1997 Jun;20(6):605–12

Glycerol and polylysine synergize in their ability to rupture vesicular membranes: a mechanism for increased transferrin–polylysine–mediated gene transfer. Zauner W, et al. **Exp Cell Res** 1997 Apr 10;232(1):137–45

Proton release from water oxidation by photosystem II: similar stoichiometries are stabilized in thylakoids and PSII core particles by glycerol. Haumann M, et al. **FEBS Lett** 1997 Jun 30;410(2–3):243–8

Aggregation of banana pyrophosphate fructose 6-phosphate 1-phosphotransferase by glycerol. Surendranathan KK, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):498–505

Pre-exercise glycerol hydration improves cycling endurance time. Montner P, et al. **Int J Sports Med** 1996 Jan; 17(1):27–33

Hyperhydration: thermoregulatory effects during compensable exercise-heat stress. Latzka WA, et al. **J Appl Physiol** 1997 Sep;83(3):860–6

Enhancement of intestinal water absorption and sodium transport by glycerol in rats. Wapnir RA, et al. **J Appl Physiol** 1996 Dec;81(6):2523–7

Glycerol elicits energy taxis of Escherichia coli and Salmonella typhimurium. Zhulin IB, et al. **J Bacteriol** 1997 May;179(10):3196–201

Engineering of glycerol-stimulated insulin secretion in islet beta cells. Differential metabolic fates of glucose and glycerol provide insight into mechanisms of stimulus–secretion coupling. Noel RJ, et al. **J Biol Chem** 1997 Jul 25;272(30):18621–7

Immunogenicity of glycerol-preserved human cadaver skin in vitro. Richters CD, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):228–33

Distortion–product otoacoustic emissions and glycerol on the guinea pig hydropic ear. Magliulo G, et al. **J Otolaryngol** 1997 Jun;26(3):188–93

Dynamic and thermodynamic effects of glycerol on bovine serum albumin in aqueous solution: a tryptophan phosphorescence study. Hogiu S, et al. **J Photochem Photobiol B** 1997 Aug;40(1):55–60

Influence of glycerol on the structure and redox properties of horse heart cytochrome c. A circular dichroism and electrochemical study. De Sanctis G, et al. **J Protein Chem** 1996 Oct;15(7):599–606

Glycerol is not an inhibitor of mitochondrial citrate oxidation by Aspergillus niger. Arisan–Atac I, et al. **Microbiology** 1996 Oct;142 (Pt 10):2937–42

Glycerol administration modulates the pattern of the 3-fucosyl-N-acetyl-lactosamine (CD15) epitope in the adult guinea pig inner ear. Meyer zum Gottesberge AM, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 May–Jun; 59(3):127–30

Glycerol-induced development of catalytically active conformation of Crotalus adamanteus L-amino acid oxidase in vitro. Raibekas AA, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7546–51

Field evaluation of an improved Kato-Katz thick smear technique for quantitative determination of helminth eggs in faeces. Odongo–Aginya EI, et al. **Trop Med Parasitol** 1995 Dec;46(4):275–7

[Glycerol supplementation in broiler rations with low crude protein content] Simon A, et al. **Arch Tierernahr** 1997; 50(3):271–82 (Eng. Abstr.) **(Ger)**

[Effects of glycerin and dextran on maintenance of the activity of Mycobacterium leprae in a cell-free liquid medium] Nakamura M. **Nippon Rai Gakkai Zasshi** 1996 Jul;65(2):94–9 (Eng. Abstr.) **(Jpn)**

[The effect of membrane-transport inhibitors on the vacuolization of skeletal muscle fibers induced by glycerin removal from them] Krolenko SA, et al. **Tsitologiia** 1996; 38(7):751–7 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

The damage to phospholipids caused by free radical attack on glycerol and sphingosine backbone. Edimecheva IP, et al. **Int J Radiat Biol** 1997 May;71(5):555–60

THERAPEUTIC USE

Comparison of diuretic effects of glycerol with furosemide after transurethral prostatectomy. Tsao CM, et al. **Acta Anaesthesiol Sin** 1996 Dec;34(4):185–90

Intradiscal glycerol or bupivacaine in the treatment of low back pain. Kotilainen E, et al. **Acta Neurochir (Wien)** 1997; 139(6):541–5

Osmotic drugs in the treatment of cochlear disorders: a clinical and experimental study. Filipo R, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):229–31

TOXICITY

Glycerol-induced augmentation of sensitivity to endotoxin in rats. Zurovsky Y, et al. **Toxicon** 1994 Jan;32(1):17–26

GLYCEROKINASE see **GLYCEROL KINASE**

GLYCEROL see **GLYCERIN**

GLYCEROL ETHERS see **GLYCERYL ETHERS**

GLYCEROL KINASE

CHEMISTRY

Interferences of glycerol, propylene glycol, and other diols in the enzymatic assay of ethylene glycol. Malandain H, et al. **Eur J Clin Chem Clin Biochem** 1996 Aug;34(8):651–4

DEFICIENCY

Glycerol kinase deficiency in two brothers with and without clinical manifestations. Blomquist HK, et al. **Clin Genet** 1996 Nov;50(5):375–9

Glycerol kinase deficiency and adrenal hypoplasia congenita. Clarke RA, et al. **J Inherit Metab Dis** 1997 Aug;20(4):609

GENETICS

Patient with an Xp21 contiguous gene deletion syndrome in association with agenesis of the corpus callosum. Baranzini SE, et al. **Am J Med Genet** 1997 Jun 13; 70(3):216–21

Identification of a ferritin light chain pseudogene near the glycerol kinase locus in Xp21 by cDNA amplification for identification of genomic expressed sequences. Guo W, et al. **Biochem Mol Med** 1997 Apr;60(2):169–73

Glycerol kinase deficiency in two brothers with and without clinical manifestations. Blomquist HK, et al. **Clin Genet** 1996 Nov;50(5):375–9

Ahch, the mouse homologue of DAX1: cloning, characterization and synteny with GyK, the glycerol kinase locus. Guo W, et al. **Gene** 1996 Oct 31;178(1–2):31–4

Isolation, mapping, and functional expression of the mouse X chromosome glycerol kinase gene. Huq AH, et al. **Genomics** 1996 Sep 15;36(3):530–4

Cloning and sequencing of two enterococcal glpK genes and regulation of the encoded glycerol kinases by phosphoenolpyruvate–dependent, phosphotransferase system–catalyzed phosphorylation of a single histidyl residue. Charrier V, et al. **J Biol Chem** 1997 May 30; 272(22):14166–74

Structure and gene–polypeptide relationships of the region encoding glycerol diffusion facilitator (glpF) and glycerol kinase (glpK) of Pseudomonas aeruginosa. Schweizer HP, et al. **Microbiology** 1997 Apr;143 (Pt 4):1287–97

GLYCEROL MONOESTER HYDROLASES see **MONOACYLGLYCEROL LIPASES**

GLYCEROL PHOSPHATE ETHERS see **PHOSPHOLIPID ETHERS**

GLYCEROL PHOSPHOGLYCERIDES see **PHOSPHATIDYLGLYCEROLS**

GLYCEROLPHOSPHATE ACYLTRANSFERASE

ANTAGONISTS & INHIBITORS

A protein tyrosine kinase associated with the ATP–dependent inactivation of adipose diacylglycerol acyltransferase. Lau TE, et al. **Lipids** 1996 Mar;31(3):277–83

GENETICS

Identification of glycerol-3-phosphate acyltransferase as an adipocyte determination and differentiation factor 1– and sterol regulatory element–binding protein–responsive gene. Ericsson J, et al. **J Biol Chem** 1997 Mar 14;272(11):7298–305

METABOLISM

Substrate specificity modification of the stromal glycerol-3-phosphate acyltransferase. Ferri SR, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):202–8

Glycerolipid metabolizing enzymes in rat ventricle and in cardiac myocytes. Swanton EM, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):93–102

Stimulation of phospholipid synthesis in HeLa cells by epidermal growth factor and insulin: activation of choline kinase and glycerophosphate acyltransferase. Uchida T. **Biochim Biophys Acta** 1996 Nov 22;1304(2):89–104

GLYCEROLPHOSPHATE DEHYDROGENASE

BLOOD

FAD–glycerophosphate dehydrogenase activity in lymphocytes of type-2 diabetic patients and their relatives. Vidal J, et al. **Diabetes Res Clin Pract** 1996 Mar; 31(1–3):17–25

[Some mechanisms of pathogenesis of hypertonic type neurocirculatory dystonia in flying personnel] Denisov SL, et al. **Aviakosm Ekolog Med** 1996;30(1):44–6 (Eng. Abstr.) **(Rus)**

[Cytochemical method of simultaneous determination of oxidation–reduction enzymes and acid phosphatase in blood lymphocytes] Bulygin GV, et al. **Klin Lab Diagn** 1997 Apr; (4):6–8 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Isoenzymes related to flight activity in Tetragonisca angustula (Hymenoptera:Apidae:Meliponinae): evidence of postranslational modification of the hexokinase and detection of new glycerol-3-phosphate dehydrogenase variants. Castanheira EB, et al. **Biochem Genet** 1995 Dec; 33(11–12):365–75

Cloning and characterization of the NAD–linked glycerol-3-phosphate dehydrogenases of Trypanosoma brucei brucei and Leishmania mexicana mexicana and expression of the trypanosome enzyme in Escherichia coli. Kohl L, et al. **Mol Biochem Parasitol** 1996 Feb–Mar; 76(1–2):159–73

Molecular characterization of glycosomal NAD(+)–dependent glycerol 3-phosphate dehydrogenase from Trypanosoma brucei rhodesiense. Stebeck CE, et al. **Mol Biochem Parasitol** 1996 Feb–Mar;76(1–2):145–58

GENETICS

Physiological response to anaerobicity of glycerol-3-phosphate dehydrogenase mutants of Saccharomyces cerevisiae. Björkqvist S, et al. **Appl Environ Microbiol** 1997 Jan;63(1):128–32

Sequence and tissue–dependent RNA expression of mouse FAD–linked glycerol-3-phosphate dehydrogenase. Koza RA, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):97–104

Mutation in the calcium–binding domain of the mitochondrial glycerophosphate dehydrogenase gene in a family of diabetic subjects. Novials A, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):570–2

Detection of variants in the mitochondrial glycerophosphate dehydrogenase gene in Japanese NIDDM patients. Takeuchi Y, et al. **Diabetologia** 1997 Mar;40(3):339–43

The two isoenzymes for yeast NAD+–dependent glycerol 3–phosphate dehydrogenase encoded by GPD1 and GPD2 have distinct roles in osmoadaptation and redox regulation. Ansell R, et al. **EMBO J** 1997 May 1;16(9):2179–87

Molecular structure of rare but geographically widespread sn–glycerol–3–phosphate dehydrogenase 'ultra–fast' electrophoretic alleles in Drosophila melanogaster. Wilanowski TM, et al. **Genetica** 1996 Mar;97(2):165–72

Genetic mapping and chromosome localization of the rat mitochondrial glycerol–3–phosphate dehydrogenase gene, a candidate for non–insulin–dependent diabetes mellitus. Koike G, et al. **Genomics** 1996 Nov 15;38(1):96–9

Population genetic structure of Ixodes ricinus in Switzerland from allozymic data: no evidence of divergence between nearby sites. Delaye C, et al. **Int J Parasitol** 1997 Jul; 27(7):769–73

Action at a distance for negative control of transcription of the glpD gene encoding sn–glycerol 3–phosphate dehydrogenase of Escherichia coli K–12. Yang B, et al. **J Bacteriol** 1996 Dec;178(24):7090–8

Osmotic balance regulates cell fusion during mating in Saccharomyces cerevisiae. Philips J, et al. **J Cell Biol** 1997 Sep 8;138(5):961–74

Developmental regulation of the alpha–glycerophosphate shuttle in porcine myocardium. Scholz TD, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1605–13

Erratic evolution of glycerol–3–phosphate dehydrogenase in Drosophila, Chymomyza, and Ceratitis. Kwiatowski J, et al. **J Mol Evol** 1997 Jan;44(1):9–22

A dual role for the Bacillus subtilis glpD leader and the GlpP protein in the regulated expression of glpD: antitermination and control of mRNA stability. Glatz E, et al. **Mol Microbiol** 1996 Jan;19(2):319–28

Osmoregulation of fission yeast: cloning of two distinct genes encoding glycerol–3–phosphate dehydrogenase, one of which is responsible for osmotolerance for growth. Ohmiya R, et al. **Mol Microbiol** 1995 Dec;18(5):963–73

Evolution of the Drosophila obscura species group inferred from the Gpdh and Sod genes. Barrio E, et al. **Mol Phylogenet Evol** 1997 Feb;7(1):79–93

Vagaries of the molecular clock. Ayala FJ. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7776–83

Molecular clock or erratic evolution? A tale of two genes.

GLYCEROLPHOSPHATE DEHYDROGENASE

Ayala FJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11729–34

Biology of Amazonian anopheline. XX. Ontogeny of esterases, leucine aminopeptidase and alpha–glycerophosphate dehydrogenase in Anopheles (Nyssorhynchus) darlingi Root, 1926 (Diptera, Culicidae). Dos Santos JM, et al. **Rev Bras Biol** 1996 Aug;56(3):591–8

METABOLISM

Steady–state kinetics of reduction of coenzyme Q analogs by glycerol–3–phosphate dehydrogenase in brown adipose tissue mitochondria. Rauchová H, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):235–41

Immunodetection of mitochondrial glycerophosphate dehydrogenase (mGDH) by a polyclonal antibody raised against a recombinant mGDH fragment product. Novials A, et al. **Biochem Mol Med** 1996 Dec;59(2):187–91

Association of lipid A disaccharide synthase with aerobic glycerol–3–phosphate dehydrogenase in extracts of Escherichia coli. Milla ME, et al. **Biochim Biophys Acta** 1996 Dec 13;1304(3):245–53

Low mitochondrial glycerol phosphate dehydrogenase and pyruvate carboxylase in pancreatic islets of Zucker diabetic fatty rats. MacDonald MJ, et al. **Diabetes** 1996 Nov; 45(11):1626–30

Low mitochondrial glycerophosphate dehydrogenase activity in lymphocytes of women with gestational diabetes. Vidal J, et al. **Horm Metab Res** 1997 Feb;29(2):60–2

Comparison of the enzyme activities between the thickest and the thinnest parts of the abdominal pannus. Cazes L, et al. **J Am Coll Nutr** 1997 Aug;16(4):341–5

Hippocampal responses to corticosterone and stress, one of which is the 35,000 M(r) protein, glycerol phosphate dehydrogenase. Nicols NR, et al. **J Neuroendocrinol** 1996 Nov;8(11):867–76

Glycerol 3–phosphate dehydrogenase of boar spermatozoa: inhibition by alpha–bromohydrin phosphate. Jones AR, et al. **J Reprod Fertil** 1996 Sep;108(1):95–100

Ontogeny of FAD–linked glycerophosphate dehydrogenase in rat pancreatic islets. Rasschaert J, et al. **Reprod Fertil Dev** 1996;8(3):443–8

Reduced pyruvate decarboxylase and increased glycerol–3–phosphate dehydrogenase [NAD+] levels enhance glycerol production in Saccharomyces cerevisiae. Nevoigt E, et al. **Yeast** 1996 Oct;12(13):1331–7

PHYSIOLOGY

A glycerol–3–phosphate dehydrogenase–deficient mutant of Saccharomyces cerevisiae expressing the heterologous XYL1 gene. Lidén G, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3894–6

GLYCEROPHOSPHATE ETHERS see **PHOSPHOLIPID ETHERS**

GLYCEROPHOSPHATES

ANALYSIS

Post–translational modifications of meningococcal pili. Identification of common substituents: glycans and alpha–glycerophosphate—a review. Virji M. **Gene** 1997 Jun 11;192(1):141–7 (42 ref.)

METABOLISM

"Cross talk" between the bioactive glycerolipids and sphingolipids in signal transduction. Brindley DN, et al. **Biochem Cell Biol** 1996;74(4):469–76 (61 ref.)

On the mechanism of lysophospholipase activity of secretory phospholipase A2 (EC 3.1.1.4): deacylation of monoacylphosphoglycerides by intrinsic sn–1 specificity and pH–dependent acyl migration in combination with sn–2 specificity. Kunze H, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):86–92

Repressor for the sn–glycerol 3–phosphate regulon of Escherichia coli K–12: primary structure and identification of the DNA–binding domain. Zeng G, et al. **J Bacteriol** 1996 Dec;178(24):7080–9

Developmental regulation of the alpha–glycerophosphate shuttle in porcine myocardium. Scholz TD, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1605–13

Glycerol 3–phosphate dehydrogenase of boar spermatozoa: inhibition by alpha–bromohydrin phosphate. Jones AR, et al. **J Reprod Fertil** 1996 Sep;108(1):95–100

Postnatal changes in activation of polyunsaturated fatty acid, acylation of lysophosphoglyceride, and phosphorylation of diacylglycerol in cortical gray matter of rat cerebrum. Kanazawa A, et al. **Lipids** 1996 Apr;31(4):437–40

Pathways of incorporation of fatty acid into glycerolipids of the murine peripheral nervous system in vivo: alterations in the dysmyelinating mutant trembler mouse. Heape AM, et al. **Neurochem Int** 1996 Dec;29(6):607–22

PHARMACOLOGY

Effects of iron salts in sucrose on dental caries and plaque in rats. Miguel JC, et al. **Arch Oral Biol** 1997 May; 42(5):377–83

Increased turnover of small proteoglycans synthesized by human osteoblasts during cultivation with ascorbate and beta–glycerophosphate. Blumberg P, et al. **Calcif Tissue Int** 1997 Jun;60(6):554–60

Stable transfection of nonosteogenic cell lines with tissue nonspecific alkaline phosphatase enhances mineral deposition both in the presence and absence of beta–glycerophosphate: possible role for alkaline phosphatase in pathological mineralization. Hui M, et al. **Calcif Tissue Int** 1997 May;60(5):467–72

Demineralized bone matrix mediates differentiation of bone marrow stromal cells in vitro: effect of age of cell donor. Becerra J, et al. **J Bone Miner Res** 1996 Nov;11(11):1703–14

The mechanism of beta–glycerophosphate action in mineralizing chick limb–bud mesenchymal cell cultures. Boskey AL, et al. **J Bone Miner Res** 1996 Nov; 11(11):1694–702

Role of beta–GP–derived Pi in mineralization via ecto–alkaline phosphatase in cultured fetal calvaria cells. Anagnostou F, et al. **J Cell Biochem** 1996 Aug;62(2):262–74

Role of phospholipase A2 enzymes in degradation of dipalmitoylphosphatidylcholine by granular pneumocytes. Fisher AB, et al. **J Lipid Res** 1996 May;37(5):1057–64

GLYCERYL ETHERS

ISOLATION & PURIFICATION

Purification and characterization of deep sea shark Centrophorus squamosus liver oil 1–O–alkylglycerol ether lipids. Bordier CG, et al. **Lipids** 1996 May;31(5):521–8

Unsaturated glycerol monoethers as novel skin penetration enhancers. Loftsson T, et al. **Pharmazie** 1997 Jun; 52(6):463–5

METABOLISM

Metabolism of glycerol–1,2,3–trimethylsuccinate in rat pancreatic islets. Malaisse WJ, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):26–8

Lipase–catalyzed monoesterification of 1–O–hexadecylglycerol in organic solvents. Bertello LE, et al. **Lipids** 1997 Aug;32(8):907–11

Digestion of the 1–O–alkyl diacylglycerol ethers of Atlantic dogfish liver oils by Atlantic salmon Salmo salar. Kang SJ, et al. **Lipids** 1997 Jan;32(1):19–30

PHARMACOLOGY

Unsaturated glycerol monoethers as novel skin penetration enhancers. Loftsson T, et al. **Pharmazie** 1997 Jun; 52(6):463–5

GLYCERYL TRINITRATE see **NITROGLYCERIN**

GLYCERYLPHOSPHORYLCHOLINE

ANALOGS & DERIVATIVES

Antileishmanial activity of rac–1–dodecyl–2–octanamido–2–deoxy–glycerophosphocholine, a new dialkylglycerophosphocholine, in vitro. Bourass J, et al. **Ann Trop Med Parasitol** 1996 Oct;90(5):559–61

Rapid kinetics of insertion and accessibility of spin–labeled phospholipid analogs in lipid membranes: a stopped–flow electron paramagnetic resonance approach. Marx U, et al. **Biophys J** 1997 Sep;73(3):1645–54

ANALYSIS

Choline and choline esters in human and rat milk and in infant formulas. Holmes–McNary MQ, et al. **Am J Clin Nutr** 1996 Oct;64(4):572–6

Quantitation of glycerophosphorylcholine by flow injection analysis using immobilized enzymes. Mancini A, et al. **Mol Cell Biochem** 1996 Sep 20;162(2):83–7

CHEMISTRY

Phase behavior of fluorocarbon di–O–alkyl–glycerophosphocholines and glycerophosphoethanolamines and long–term shelf stability of fluorinated liposomes. Ravily V, et al. **Biochim Biophys Acta** 1997 Feb 21;1324(1):1–17

METABOLISM

Free radical–induced oxidation of glycerophosphocholine lipids and formation of biologically active products. Murphy RC. **Adv Exp Med Biol** 1996;416:51–8 (27 ref.)

Betaine and inositol reduce MDCK cell glycerophosphocholine by stimulating its degradation. Kwon ED, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C200–7

PHARMACOKINETICS

Intrarenal distribution of organic osmolytes in human kidney. Schmolke M, et al. **Eur J Clin Chem Clin Biochem** 1996 Jun;34(6):499–501

PHARMACOLOGY

Nucleus basalis magnocellularis lesions decrease histochemically reactive zinc stores in the rat brain: effect of choline alphoscerate treatment. Amenta F, et al. **Eur J Histochem** 1995;39(4):281–8

Glycerophosphocholine and betaine counteract the effect of urea on pyruvate kinase. Burg MB, et al. **Kidney Int Suppl** 1996 Dec;57:S100–4

Evidence for an in vivo and in vitro modulation of endogenous cortical GABA release by alpha–glycerylphosphorylcholine. Ferraro L, et al. **Neurochem Res** 1996 May;21(5):547–52

Effect of L–alpha glycerylphosphorylcholine on muscarinic receptors and membrane microviscosity of aged rat brain. Muccioli G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Feb; 20(2):323–39

GLYCINE

see related
RECEPTORS, GLYCINE

Association of an exon 3 mutation (Trp66—>Gly) of the LDL receptor with variable expression of familial hypercholesterolemia in a French Canadian family. Levy E, et al. **Biochem Mol Med** 1997 Feb;60(1):59–69

Amino acid sequence environment modulates the disruption by osteogenesis imperfecta glycine substitutions in collagen–like peptides. Yang W, et al. **Biochemistry** 1997 Jun 10;36(23):6930–5

Effect of the N–terminal glycine on the secondary structure, orientation, and interaction of the influenza hemagglutinin fusion peptide with lipid bilayers. Gray C, et al. **Biophys J** 1996 May;70(5):2275–86

A patient with type 2N von Willebrand disease is heterozygous for a new mutation: Gly22Glu. Demonstration of a defective expression of the second allele by the use of monoclonal antibodies. Gu J, et al. **Blood** 1997 May 1;89(9):3263–9

A three amino acid deletion in glycoprotein IIIa is responsible for type I Glanzmann's thrombasthenia: importance of residues Ile325Pro326Gly327 for beta3 integrin subunit association. Morel–Kopp MC, et al. **Blood** 1997 Jul 15; 90(2):669–77

A new way to prevent leakage of glycine during endoscopic transanal resection of rectal lesions [see comments] Abbasakoor F, et al. **Br J Surg** 1996 Oct;83(10):1467. Comment in: Br J Surg 1997 Apr;84(4):581.

Disrupted collagen architecture in the crystal structure of a triple–helical peptide with a Gly—>Ala substitution. Bella J, et al. **Connect Tissue Res** 1996;35(1–4):401–6

Osteogenesis imperfecta phenotypes resulting from serine for glycine substitutions in the alpha2(I) collagen chain. Nuytinck L, et al. **Eur J Hum Genet** 1997 May–Jun; 5(3):161–7

Restriction of substrate specificity of subtilisin E by introduction of a side chain into a conserved glycine residue. Takagi H, et al. **FEBS Lett** 1996 Oct 21; 395(2–3):127–32

Absence of association between the Gly40—>Ser mutation in the human glucagon receptor and Japanese patients with non–insulin–dependent diabetes mellitus or impaired glucose tolerance. Odawara M, et al. **Hum Genet** 1996 Dec; 98(6):636–9

Effects of lysine–to–glycine mutations in the ATP–binding consensus sequences in the AddA and AddB subunits on the Bacillus subtilis AddAB enzyme activities. Haijema BJ, et al. **J Bacteriol** 1996 Sep;178(17):5130–7

The effects of amino acid replacements of glycine 121 on transmembrane helix 3 of rhodopsin. Han M, et al. **J Biol Chem** 1996 Dec 13;271(50):32330–6

Functional interaction of transmembrane helices 3 and 6 in rhodopsin. Replacement of phenylalanine 261 by alanine causes reversion of phenotype of a glycine 121 replacement mutant. Han M, et al. **J Biol Chem** 1996 Dec 13; 271(50):32337–42

Factor XSt. Louis II. Identification of a glycine substitution at residue 7 and characterization of the recombinant protein. Rudolph AE, et al. **J Biol Chem** 1996 Nov 8; 271(45):28601–6

Glycine residues provide flexibility for enzyme active sites. Yan BX, et al. **J Biol Chem** 1997 Feb 7;272(6):3190–4

A single–base mutation in exon 31 converting glycine 852 to arginine in the collagenous domain in an Alport syndrome patient. Kawai S, et al. **Nephron** 1996;74(2):333–6

Spontaneous multivessel cervical artery dissection in a patient with a substitution of alanine for glycine (G13A) in the alpha 1 (I) chain of type I collagen [see comments] Mayer SA, et al. **Neurology** 1996 Aug;47(2):552–6. Comment in: Neurology 1997 May;48(5):1475.

Characterisation of the binding of [3H]MDL 105,519, a radiolabelled antagonist for the N–methyl–D–aspartate–associated glycine site, to pig cortical brain membranes. Höfner G, et al. **Neurosci Lett** 1997 Apr 25;226(2):79–82

Differential accumulation of two glycine–rich proteins during cold–acclimation alfalfa. Ferullo JM, et al. **Plant Mol Biol** 1997 Mar;33(4):625–33

The temporal and spatial transcription pattern in root nodules of Vicia faba nodulin genes encoding glycine–rich proteins. Schroder G, et al. **Plant Mol Biol** 1997 Jan;33(1):113–23

A novel glycine–rich/hydrophobic 16 kDa polypeptide gene from tobacco: similarity to proline–rich protein genes and its wound–inducible and developmentally regulated expression. Yasuda E, et al. **Plant Mol Biol** 1997 Mar; 33(4):667–78

Gly–63—>Gln substitution adjacent to His–64 in rodent carbonic anhydrase IVs largely explains their reduced activity. Tamai S, et al. **Proc Natl Acad Sci U S A** 1996

Nov 26;93(24):13647–52

ADMINISTRATION & DOSAGE

Glycine therapy of schizophrenia [letter; comment] Javitt DC. **Biol Psychiatry** 1996 Oct 1;40(7):684–6. Comment on: Biol Psychiatry 1996 Feb 1;39(3):155–6.

Preliminary investigation of high–dose oral glycine on serum levels and negative symptoms in schizophrenia: an open–label trial [see comments] Leiderman E, et al. **Biol Psychiatry** 1996 Feb 1;39(3):213–5. Comment in: Biol Psychiatry 1996 Feb 1;39(3):155–6.

Glycine therapy of schizophrenia: some caveats [editorial; comment] [see comments] Waziri R. **Biol Psychiatry** 1996 Feb 1;39(3):155–6. Comment on: Biol Psychiatry 1996 Feb 1;39(3):213–5. Comment in: Biol Psychiatry 1996 Oct 1;40(7):684–6.

Double–blind, placebo–controlled, crossover trial of glycine adjuvant therapy for treatment–resistant schizophrenia. Heresco–Levy U, et al. **Br J Psychiatry** 1996 Nov; 169(5):610–7

Glycine 1.0% versus glycine 1.5% as irrigating fluid during transurethral resection of the prostate. Hahn RG, et al. **Br J Urol** 1997 Mar;79(3):394–400

15N–tracer studies in formula–fed preterm infants: the role of glycine supply in protein turnover. Plath C, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):287–97

Prevention of cyclosporine–induced nephrotoxicity with dietary glycine. Thurman RG, et al. **Transplantation** 1997 Jun 15;63(11):1661–7

ADVERSE EFFECTS

Is glycine a safe irrigating fluid? [letter] Hahn RG. **Acta Anaesthesiol Scand** 1997 Apr;41(4):545

Intravascular absorption of glycine irrigating solution during shoulder arthroscopy: a case report and follow–up study. Ichai C, et al. **Anesthesiology** 1996 Dec;85(6):1481–5

Glycine–induced hypo–osmolar hyponatremia. Ayus JC, et al. **Arch Intern Med** 1997 Jan 27;157(2):223–6

Glycine absorption and hypocalcaemia [letter; comment] Hahn RG. **Br J Anaesth** 1996 Dec;77(6):810–1. Comment on: Br J Anaesth 1996 Aug;77(2):271–3.

Glycine irrigant absorption syndrome following cystoscopy [letter] Siddiqui MA, et al. **Clin Nephrol** 1996 May; 45(5):365–6

Visual disturbances and transurethral resection of the prostate: the TURP syndrome. Radziwill AJ, et al. **Eur Neurol** 1997;38(1):7–9

[Cardiac arrhythmia caused by massive resorption of glycine during hysteroscopy (letter; comment)] Chassard D, et al. **Ann Fr Anesth Reanim** 1996;15(2):227. Comment on: Ann Fr Anesth Reanim 1995;14(4):370–3. **(Fre)**

[Urologic irrigation fluid is not safe. There is evidence of serious adverse effects] Hahn R. **Lakartidningen** 1996 Dec 11;93(50):4645–6 **(Swe)**

AGONISTS

Reversion of beta 25–35–amyloid peptide–induced amnesia by NMDA receptor–associated glycine site agonists. Maurice T, et al. **Brain Res** 1996 Aug 26;731(1–2):249–53

ANALOGS & DERIVATIVES

Absolute configuration of (+)–alpha–methyl–4–carboxyphenylglycine (MCPG), a metabotropic glutamate receptor antagonist. Wilson C, et al. **Acta Crystallogr C** 1997 Jul 15;53 (Pt 7):909–11

Accelerated cell–mediated broncho–obstructive reaction to inhaled stepronin: a case report. Romano A, et al. **Allergy** 1996 Apr;51(4):269–71

Carrier–mediated transport of conjugated bile acids across the basolateral membrane of biliary epithelial cells. Benedetti A, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1416–24

Effects of neutrophil elastase inhibitor on bleomycin–induced pulmonary fibrosis in mice. Taooka Y, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):260–5

ONO–5046, an elastase inhibitor, attenuates endotoxin–induced acute lung injury in rabbits. Nishina K, et al. **Anesth Analg** 1997 May;84(5):1097–103

Neutrophil elastase inhibitor, ONO–5046, modulates acid–induced lung and systemic injury in rabbits. Kaneko K, et al. **Anesthesiology** 1997 Sep;87(3):635–41

Irreversible cytotoxic effect of a novel lowly immunosuppressive antitumor fluorouridine derivative, UK–21. Mori H, et al. **Anticancer Drugs** 1997 Jun; 8(5):482–8

Reactivity of mu–peroxo–bridged dimeric vanadate in bromoperoxidation. Rao AV, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):289–97

Leukocyte depletion and ONO–5046, a specific inhibitor of granulocyte elastase, prevent a stress–induced decrease in gastric prostaglandin I2 in rats. Harada N, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):52–5

Effect of a covalently attached synergistic anion on chelator–mediated iron–release from ovotransferrin: additional evidence for two concurrent pathways. Bailey CT, et al. **Biochemistry** 1997 Aug 19;36(33):10105–8

Refined crystal structure of adenylosuccinate synthetase from Escherichia coli complexed with hydantocidin 5'–phosphate, GDP, HPO4(2–), Mg2+, and hadacidin. Poland BW, et al. **Biochemistry** 1996 Dec 10;35(49):15753–9

A new metabolite of propargylglycine, gamma–glutamylpropargylcylglycine, in liver of D,L–propargylglycine–administered rats. Ohta J, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):240–6

Influence of membrane–active peptides on lipospermine/DNA complex mediated gene transfer. Kichler A, et al. **Bioconjug Chem** 1997 Mar–Apr; 8(2):213–21

[99mTc]tricine: a useful precursor complex for the radiolabeling of hydrazinonicotinate protein conjugates. Larsen SK, et al. **Bioconjug Chem** 1995 Sep–Oct;6(5):635–8

Catalytic cleavage of vasopressin by human Bence Jones proteins at the arginylglycinamide bond. Matsuura K, et al. **Biol Chem** 1996 Sep;377(9):587–9

First–pass metabolism of ONO–5046 (N–[2–[4–(2,2–dimethylpropionyloxy) phenylsulfonylamino]benzoyl]aminoacetic acid), a novel elastase inhibitor, in rats. Watanabe F, et al. **Biol Pharm Bull** 1997 Apr;20(4):392–6

Pharmacokinetic and pharmacodynamic analysis of (E)–2–ene valproyl derivatives of glycine and valproyl derivatives of nipecotic acid. Bialer M, et al. **Biopharm Drug Dispos** 1996 Oct;17(7):565–75

A metalloproteinase inhibitor prevents lethal acute graft–versus–host disease in mice. Hattori K, et al. **Blood** 1997 Jul 15;90(2):542–8

Differences in agonist and antagonist activities for two indices of metabotropic glutamate receptor–stimulated phosphoinositide turnover. Mistry R, et al. **Br J Pharmacol** 1996 Apr;117(8):1735–43

Enhancement of NMDA responses by group I metabotropic glutamate receptor activation in striatal neurones. Pisani A, et al. **Br J Pharmacol** 1997 Mar;120(6):1007–14

The effects of (RS)–alpha–cyclopropyl–4–phosphonophenylglycine ((RS)–CPPG), a potent and selective metabotropic glutamate receptor antagonist. Toms NJ, et al. **Br J Pharmacol** 1996 Nov;119(5):851–4

DCG–IV, a potent metabotropic glutamate receptor agonist, as an NMDA receptor agonist in the rat cortical slice. Uyama Y, et al. **Brain Res** 1997 Mar 28;752(1–2):327–30

Effects of technical grade and a commercial formulation of glyphosate on algal population growth. Sáenz ME, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):638–44

Levels of the herbicide glyphosate in well water. Smith NJ, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):759–65

Biodegradation of N–phosphonomethyliminodiacetic acid by microorganisms from industrial activated sludge. Carson DB, et al. **Can J Microbiol** 1997 Jan;43(1):97–101

Antithrombotic activity of inogatran, a new low–molecular–weight inhibitor of thrombin, in a closed–chest porcine model of coronary artery thrombosis. Uriuda Y, et al. **Cardiovasc Res** 1996 Aug;32(2):320–7

Thrombin inhibition with inogatran for unstable angina pectoris: evidence for reactivated ischaemia after cessation of short–term treatment. Andersen K, et al. **Coron Artery Dis** 1996 Sep;7(9):673–81

Role of granulocyte elastase in ischemia/reperfusion injury of rat liver. Kushimoto S, et al. **Crit Care Med** 1996 Nov; 24(11):1908–12

DCG–IV selectively attenuates rapidly triggered NMDA–induced neurotoxicity in cortical neurons. Buisson A, et al. **Eur J Neurosci** 1996 Jan;8(1):138–43

Type 2 metabotropic glutamate (mGlu) receptors tonically inhibit transmitter release in rat caudate nucleus: in vivo studies with (2S,1'S,2'S,3'R)–2–(2'–carboxy–3'–phenylcyclopropyl) glycine, a new potent and selective antagonist. Cozzi A, et al. **Eur J Neurosci** 1997 Jul;9(7):1350–5

Phenylglycines can evoke quisqualate–primed depolarizations in rat cingulate cortex: an effect associated with [3H]DL–AP4 uptake. Sheardown MJ, et al. **Eur J Neurosci** 1996 Dec;8(12):2599–604

Novel potent selective phenylglycine antagonists of metabotropic glutamate receptors. Bedingfield JS, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):71–8

DCG–IV inhibits synaptic transmission by activation of NMDA receptors in area CA1 of rat hippocampus. Breakwell NA, et al. **Eur J Pharmacol** 1997 Mar 19; 322(2–3):173–8

Prolonged anticonvulsant action of glutamate metabotropic receptor agonists in inferior colliculus of genetically epilepsy–prone rats. Tang E, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):109–15

Specific neutrophil elastase inhibitor does not attenuate acute lung injury induced by air embolism in awake sheep. Miyahara T, et al. **Exp Lung Res** 1996 Nov–Dec; 22(6):613–25

Folding and aggregation of DNA chains induced by complexation with lipospermine: formation of a nucleosome–like structure and network assembly. Yoshikawa Y, et al. **FEBS Lett** 1996 Oct 28;396(1):71–6

In vitro percutaneous absorption of model compounds glyphosate and malathion from cotton fabric into and through human skin. Wester RC, et al. **Food Chem Toxicol** 1996 Aug;34(8):731–5

Neutrophil elastase inhibitor reduces neutrophil chemoattractant production after ischemia–reperfusion in rat liver. Yamaguchi Y, et al. **Gastroenterology** 1997 Feb; 112(2):551–60

Optimized galenics improve in vitro gene transfer with cationic molecules up to 1000–fold. Boussif O, et al. **Gene Ther** 1996 Dec;3(12):1074–80

Structural versatility of peptides from C alpha, alpha–disubstituted glycines: crystal–state conformational analysis of peptides from C alpha–methylhomophenylalanine, (alpha Me) Hph. Doi M, et al. **Int J Pept Protein Res** 1996 Jun;47(6):491–7

UK–2A, B, C and D, novel antifungal antibiotics from Streptomyces sp. 517–02. I. Fermentation, isolation, and biological properties. Ueki M, et al. **J Antibiot (Tokyo)** 1996 Jul;49(7):639–43

Note: microbial resistance of wool fabric treated with bis–Quats compounds. Infante MR, et al. **J Appl Bacteriol** 1996 Aug;81(2):212–6

The effects of pH on N–methacryloyl glycine primer on bond strength to acid–etched dentin. Nishiyama N, et al. **J Biomed Mater Res** 1996 Jul;31(3):379–84

Synthesis and characterisation of acyl glycines. Their measurement in single blood spots by gas chromatography–mass spectrometry to diagnose inborn errors of metabolism. Bonham Carter SM, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):29–35

Simple high–performance liquid chromatographic method for the detection of phenylpropionylglycine in urine as a diagnostic tool in inherited medium–chain acyl–coenzyme A dehydrogenase deficiency. Flath B, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):227–32

A sensitive serum–free colorimetric assay for the detection of cytotoxic effects of pesticides. Figenschau Y, et al. **J Environ Sci Health B** 1997 Mar;32(2):177–94

Understanding the mechanism of sweet taste: synthesis of ultrapotent guanidinoacetic acid photoaffinity labeling reagents. Nagarajan S, et al. **J Med Chem** 1996 Oct 11; 39(21):4167–72

Frequency–dependent depression of excitatory synaptic transmission is independent of activation of MCPG–sensitive presynaptic metabotropic glutamate receptors in cultured hippocampal neurons. Maki R, et al. **J Neurophysiol** 1995 Oct;74(4):1671–4

The neuroprotective activity of group–II metabotropic glutamate receptors requires new protein synthesis and involves a glial–neuronal signaling. Bruno V, et al. **J Neurosci** 1997 Mar 15;17(6):1891–7

Lipospermine–mediated gene transfer technique into murine cultured cortical cells. Sola B, et al. **J Neurosci Methods** 1997 Feb;71(2):183–6

P2 purinoceptor blocker suramin antagonises NMDA receptors and protects against excitatory behaviour caused by NMDA receptor agonist (RS)–(tetrazol–5–yl)–glycine in rats. Ong WY, et al. **J Neurosci Res** 1997 Sep 1; 49(5):627–38

Preferred conformation of peptides rich in Ac8c, a medium–ring alicyclic C (alpha,alpha)–disubstituted glycine. Moretto V, et al. **J Pept Sci** 1996 Jan–Feb; 2(1):14–27

A short–term study of the effects of SBHAN, a novel compound, on gingival inflammation in the beagle dog. Cutler CW, et al. **J Periodontol** 1997 May;68(5):448–55

Capillary electrophoretic purity method for the novel metal chelator TMT–NCS. Bullock J. **J Pharm Biomed Anal** 1996 May;14(7):845–54

Activation of metabotropic glutamate receptor type 2/3 suppresses transmission at rat hippocampal mossy fibre synapses. Kamiya H, et al. **J Physiol (Lond)** 1996 Jun 1; 493 (Pt 2):447–55

Changing the technique of background subtraction alters calculated renal function on pediatric mercaptoacetyltriglycine renography. Nguyen HT, et al. **J Urol** 1997 Sep;158(3 Pt 2):1252–6

Comparative pharmacokinetics and tissue distribution of norfloxacin–glycine acetate in flounder, (Paralichthys olivaceus) at two different temperatures. Park SC, et al. **J Vet Med Sci** 1996 Oct;58(10):1039–40

KB–R7785, a novel matrix metalloproteinase inhibitor, exerts its antidiabetic effect by inhibiting tumor necrosis factor–alpha production. Morimoto Y, et al. **Life Sci** 1997; 61(8):795–803

Synthesis of N–substituted glycine peptoid libraries. Figliozzi GM, et al. **Methods Enzymol** 1996;267:437–47

Peptide nucleic acids: a new dimension to peptide libraries and aptamers. Nielsen PE. **Methods Enzymol** 1996; 267:426–33

A microdialysis study of glycinamide, glycine and other amino acid neurotransmitters in rat frontal cortex and hippocampus after the administration of milacemide, a glycine pro–drug. Doheny MH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):157–63

Pharmacological characterization of synaptic transmission through mGluRs in rat cerebellar slices. Batchelor AM, et al. **Neuropharmacology** 1997 Mar;36(3):401–3

Effects of the metabotropic glutamate receptor antagonist MCPG on spatial and context–specific learning. Bordi F, et al. **Neuropharmacology** 1996;35(11):1557–65

(RS)–2–chloro–5–hydroxyphenylglycine (CHPG) activates mGlu5, but no mGlu1, receptors expressed in CHO cells and potentiates NMDA responses in the hippocampus. Doherty AJ, et al. **Neuropharmacology** 1997 Feb; 36(2):265–7

Potent antagonists at the L–AP4– and (1S,3S)–ACPD–sensitive presynaptic metabotropic glutamate receptors in the neonatal rat spinal cord. Jane DE, et al. **Neuropharmacology** 1996;35(8):1029–35

The novel metabotropic glutamate receptor agonist 2R,4R-APDC potentiates stimulation of phosphoinositide hydrolysis in the rat hippocampus by 3,5-dihydroxyphenylglycine: evidence for a synergistic interaction between group 1 and group 2 receptors. Schoepp DD, et al. **Neuropharmacology** 1996; 35(12):1661-72

Two phenylglycine derivatives antagonize responses to L-AP4 in ON bipolar cells of the amphibian retina. Thoreson WB, et al. **Neuropharmacology** 1997 Jan; 36(1):13-20

mGluR II agonist inhibition of LTP induction, and mGluR II antagonist inhibition of LTD induction, in the dentate gyrus in vitro. Huang LQ, et al. **Neuroreport** 1997 Feb 10;8(3):687-93

Potentiation of synaptic transmission in the rat dentate gyrus in vitro by (S)-3,5-dihydroxyphenylglycine ((S)-DHPG). O'Leary DM, et al. **Neurosci Lett** 1997 Jun 20;229(1):29-32

Intrastriatal injection of the metabotropic glutamate receptor antagonist MCPG attenuates acute amphetamine-stimulated neuropeptide mRNA expression in rat striatum. Wang JQ, et al. **Neurosci Lett** 1996 Oct 25;218(1):13-6

Evidence against a permissive role of the metabotropic glutamate receptor 1 in acute excitotoxicity. Ferraguti F, et al. **Neuroscience** 1997 Jul;79(1):1-5

Neurotoxicity of (2S,1'R,2'R,3'R)-2-(2,3-dicarboxycyclopropyl)glycine, a potent agonist for class II metabotropic glutamate receptors, in the rat. Kwak S, et al. **Neuroscience** 1996 Aug; 73(3):687-95

Anticonvulsive and neuroprotective actions of a potent agonist (DCG-IV) for group II metabotropic glutamate receptors against intraventricular kainate in the rat. Miyamoto M, et al. **Neuroscience** 1997 Mar;77(1):131-40

99mTc-2GAM: a tracer for renal imaging. Gianolli L, et al. **Nucl Med Biol** 1996 Nov;23(8):927-33

The disposition of valproyl glycinamide and valproyl glycine in rats. Blotnik S, et al. **Pharm Res** 1997 Jul;14(7):873-8

Identification of perhydro-1,4-thiazepine-3,5-dicarboxylic acid, cystathionine mono-oxo acids, cystathionine ketimines, cystathionine sulfoxide and N-acetylcystathionine sulfoxide in the urine sample of D,L-propargylglycine treated rats. Machida Y, et al. **Physiol Chem Phys Med NMR** 1995;27(3):203-16

Sensitivity to radiation treatment and changes in metallothionein synthesis in a transplanted murine tumor. Shibuya K, et al. **Radiat Res** 1997 Sep;148(3):235-9

In vitro effects of inogatran, a selective low molecular weight thrombin inhibitor. Teger-Nilsson AC, et al. **Thromb Res** 1997 Jan 15;85(2):133-45

The oral and intratracheal toxicities of ROUNDUP and its components to rats. Adam A, et al. **Vet Hum Toxicol** 1997 Jun;39(3):147-51

Effect of roundup and tordon 202C herbicides on antibody production in mice. Blakley BR. **Vet Hum Toxicol** 1997 Aug;39(4):204-6

Nuclear magnetic resonance timecourse studies of glyphosate metabolism by microbial soil isolates. Gard JK, et al. **Xenobiotica** 1997 Jul;27(7):633-44

[Late pseudo-appendicular syndrome after Roundup poisoning (letter)] Delcenserie R, et al. **Gastroenterol Clin Biol** 1997;21(5):435-7 **(Fre)**

[33-year-old patient with postpartum myocardial infarct] Rosenkranz S, et al. **Internist (Berl)** 1997 Jun;38(6):602-5 **(Ger)**

[The limitation of lipid hyperperoxidation and the prevention of stressor damages to the heart by glycine derivatives] Malyshev VV, et al. **Eksp Klin Farmakol** 1996 Sep-Oct; 59(5):23-5 (Eng. Abstr.) **(Rus)**

ANALYSIS

Conjugated bile acids and intestinal flora during the preruminant stage in goat. Influence of a lamb milk replacer. Rueda A, et al. **Arch Physiol Biochem** 1996; 104(2):246-51

Colocalization of GABA and glycine in the rat dorsal column nuclei. Popratiloff A, et al. **Brain Res** 1996 Jan 15; 706(2):308-12

Distribution of GABA and glycine in the lamb nucleus of the solitary tract. Sweazey RD. **Brain Res** 1996 Oct 21; 737(1-2):275-86

Glycine-immunoreactive terminals in the rat trigeminal motor nucleus: light- and electron-microscopic analysis of their relationships with motoneurones and with GABA-immunoreactive terminals. Yang HW, et al. **Brain Res** 1997 Feb 28;749(2):301-19

The distribution of GABA and glycine immunostaining in the cochlear nucleus of the mustached bat (Pteronotus parnellii). Kemmer M, et al. **Cell Tissue Res** 1997 Mar; 287(3):487-506

The occurrence of glycine in bacterial lipopolysaccharides. Gamian A, et al. **FEMS Immunol Med Microbiol** 1996 Apr; 13(4):261-8

Fluorimetric method of analysis for D-norpseudoephedrine hydrochloride, glycine and L-glutamic acid by reversed-phase high-performance liquid chromatography. Swanepoel E, et al. **J Chromatogr A** 1996 Apr 5; 729(1-2):287-91

Differential number of glycine- and GABA-immunopositive neurons and terminals in the deep cerebellar nuclei of normal and Purkinje cell degeneration mutant mice. Bäurle J, et al. **J Comp Neurol** 1997 Jun 16;382(4):443-58

Distribution of glycine-immunoreactive profiles in the monkey spinal cord: a light microscopic and ultrastructural study. Carlton SM, et al. **J Comp Neurol** 1996 Aug 5; 371(4):589-602

Three classes of inhibitory amino acid terminals in the cochlear nucleus of the guinea pig. Juiz JM, et al. **J Comp Neurol** 1996 Sep 9;373(1):11-26

GABAergic and glycinergic neurons projecting to the trigeminal motor nucleus: a double labeling study in the rat. Li YQ, et al. **J Comp Neurol** 1996 Sep 30;373(4):498-510

Qualitative and quantitative analysis of glycine- and GABA-immunoreactive nerve terminals on motoneuron cell bodies in the cat spinal cord: a postembedding electron microscopic study. Ornung G, et al. **J Comp Neurol** 1996 Feb 12;365(3):413-26

GABA- and glycine-immunoreactive projections from the superior olivary complex to the cochlear nucleus in guinea pig. Ostapoff EM, et al. **J Comp Neurol** 1997 May 19; 381(4):500-12

Distribution of GABA, glycine, and glutamate immunoreactivities in the vestibular nuclear complex of the frog. Reichenberger I, et al. **J Comp Neurol** 1997 Jan 13;377(2):149-64

A glycine-to-arginine substitution in the triple-helical domain of type VII collagen in a family with dominant dystrophic epidermolysis bullosa pruriginosa. Lee JY, et al. **J Invest Dermatol** 1997 Jun;108(6):947-9

The search for interstellar glycine. Snyder LE. **Orig Life Evol Biosph** 1997 Jun;27(1-3):115-33 (59 ref.)

The DAPI-3 amacrine cells of the rabbit retina. Wright LL, et al. **Vis Neurosci** 1997 May-Jun;14(3):473-92

[Studies of a glycyl component of lipopolysaccharides] Mieszała M, et al. **Postepy Hig Med Dosw** 1996;50(5):525-8 (Eng. Abstr.) **(Pol)**

ANTAGONISTS & INHIBITORS

Benzimidazole-type glycine antagonists: the role of the ring nitrogen atoms. Berger ML, et al. **Arch Pharm (Weinheim)** 1996 Mar;329(3):121-4

Inhibition of glycine currents by dextromethorphan in neurones dissociated from the guinea-pig nucleus tractus solitarii. Takahama K, et al. **Br J Pharmacol** 1997 Feb; 120(4):690-4

Roles of monoaminergic, glycinergic and GABAergic inhibitory systems in the spinal cord in rats with peripheral mononeuropathy. Satoh O, et al. **Brain Res** 1996 Jul 22; 728(1):27-36

Nitric oxide enhancement of cholinergic amacrine activity by inhibition of glycine release. Neal M, et al. **Invest Ophthalmol Vis Sci** 1997 Jul;38(8):1634-9

Substituted indole-2-carboxylates as in vivo potent antagonists acting as the strychnine-insensitive glycine binding site. Di Fabio R, et al. **J Med Chem** 1997 Mar 14;40(6):841-50

Effects of L-701,324, a high-affinity antagonist at the N-methyl-D-aspartate (NMDA) receptor glycine site, on the rat electroencephalogram. Obrenovitch TP, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):779-86

BIOSYNTHESIS

Afferent input from peripheral chemoreceptors in response to hypoxia and amino acid neurotransmitter generation in the medulla. Kazemi H, et al. **Adv Exp Med Biol** 1996; 410:365-9

Glucose contribution to nucleic acid base synthesis in proliferating hepatoma cells: a glycine-biosynthesis-mediated pathway. Bismut H, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):761-7

Identification of Saccharomyces cerevisiae GLY1 as a threonine aldolase: a key enzyme in glycine biosynthesis. Monschau N, et al. **FEMS Microbiol Lett** 1997 May 1; 150(1):55-60

N-type calcium channel blockers from a marine bacterium, Cytophaga sp. SANK 71996. Morishita T, et al. **J Antibiot (Tokyo)** 1997 Jun;50(6):457-68

BLOOD

Intravascular absorption of glycine irrigating solution during shoulder arthroscopy: a case report and follow-up study. Ichai C, et al. **Anesthesiology** 1996 Dec;85(6):1481-5

Depletion of cerebral D-serine in non-ketotic hyperglycinemia: possible involvement of glycine cleavage system in control of endogenous D-serine. Iwama H, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):793-6

Huntington's disease: N-methyl-D-aspartate receptor coagonist glycine is increased in platelets. Reilmann R, et al. **Exp Neurol** 1997 Apr;144(2):416-9

Hyperglycinaemia in a child with carbohydrate-deficient glycoprotein syndrome type I. Subhedar NV, et al. **J Inherit Metab Dis** 1996;19(6):796-7

Non-kinetic hyperglycinaemia: prolonged survival in a patient with a mild variant. Wraith JE. **J Inherit Metab Dis** 1996;19(5):695-6

Transient neonatal nonketotic hyperglycinemia: a 13-year follow-up. Zammarchi E, et al. **Neuropediatrics** 1995 Dec; 26(6):328-30

Prognostic clues and outcome of early treatment of nonketotic hyperglycinemia. Boneh A, et al. **Pediatr Neurol** 1996 Sep;15(2):137-41

Comparison of leucine, serine and glycine transport across the ovine placenta. Geddie G, et al. **Placenta** 1996 Nov; 17(8):619-27

[Hyperglycinemia in clinical-laboratory practice] Ciani F, et al. **Pediatr Med Chir** 1997 Mar-Apr;19(2):109-12 (Eng. Abstr.) **(Ita)**

[Non-ketotic hyperglycinemia. Transient neonatal form] Vaquerizo J, et al. **Rev Neurol** 1996 Mar;24(127):293-5 (Eng. Abstr.) **(Spa)**

CEREBROSPINAL FLUID

Transient neonatal nonketotic hyperglycinemia: a 13-year follow-up. Zammarchi E, et al. **Neuropediatrics** 1995 Dec; 26(6):328-30

CHEMICAL SYNTHESIS

Synthesis and characterisation of acyl glycines. Their measurement in single blood spots by gas chromatography-mass spectrometry to diagnose inborn errors of metabolism. Bonham Carter SM, et al. **J Chromatogr B Biomed Appl** 1996 Feb 23;677(1):29-35

The effect of smectite composition on the catalysis of peptide bond formation. Bujdák J, et al. **J Mol Evol** 1996 Oct; 43(4):326-33

CHEMISTRY

On the usefulness of glycylglycine in hemodialysis and peritoneal dialysis solutions. Yatzidis H, et al. **ASAIO J** 1996 Nov-Dec;42(6):984-92

Properties of early photolysis intermediates of rhodopsin are affected by glycine 121 and phenylalanine 261. Jäger S, et al. **Biochemistry** 1997 Sep 30;36(39):11804-10

Functional transitions in myosin: role of highly conserved Gly and Glu residues in the active site. Onishi H, et al. **Biochemistry** 1997 Apr 1;36(13):3767-72

Gly-Gly-containing triplets of low stability adjacent to a type III collagen epitope. Shah NK, et al. **Biochemistry** 1997 May 13;36(19):5878-83

Structure and dynamics of pentaglycyl bridges in the cell walls of Staphylococcus aureus by 13C-15N REDOR NMR. Tong G, et al. **Biochemistry** 1997 Aug 12; 36(32):9859-66

Synthesis, characterization, and immunochemical detection of O6-(carboxymethyl)-2'-deoxyguanosine: a DNA adduct formed by nitrosated glycine derivatives. Harrison KL, et al. **Chem Res Toxicol** 1997 Jun;10(6):652-9

A mutation causing pseudohypoaldosteronism type 1 identifies a conserved glycine that is involved in the gating of the epithelial sodium channel. Gründer S, et al. **EMBO J** 1997 Mar 3;16(5):899-907

Hb J-Baltimore [beta 16(A13)Gly-->Asp] associated with beta(+)-thalassemia in a Spanish family. Arribalzaga K, et al. **Hemoglobin** 1996 Feb;20(1):79-84

HB Swan River [alpha 6(A4)ASP-->Gly] observed in a Japanese man. Harano T, et al. **Hemoglobin** 1996 Feb; 20(1):75-8

Cell wall monoglycine cross-bridges and methicillin hypersusceptibility in a femAB null mutant of methicillin-resistant Staphylococcus aureus. Strandén AM, et al. **J Bacteriol** 1997 Jan;179(1):9-16

Analysis of the transmembrane topology of the glycine transporter GLYT1. Olivares L, et al. **J Biol Chem** 1997 Jan 10;272(2):1211-7

Effect of glycine on DNA structural transitions induced by multivalent cationic compounds. Flock S, et al. **J Biomol Struct Dyn** 1997 Aug;15(1):53-61

Capillary electrophoresis in the assay of the hydrolysis of glycine-containing peptides by a protease from Pseudomonas aeruginosa. Vessillier S, et al. **J Chromatogr A** 1997 Jul 25;776(1):133-7

Determination of the gas-phase basicities of proline and its di- and tripeptides with glycine: the enhanced basicity of prolylproline. Ewing NP, et al. **J Mass Spectrom** 1996 Dec; 31(12):1345-50

Gas-phase reactions of glycine, alanine, valine and their N-methyl derivatives with the nitrosonium ion, NO+. Freitas MA, et al. **J Mass Spectrom** 1996 Oct; 31(10):1086-92

The amino-terminal fusion domain peptide of human immunodeficiency virus type 1 gp41 inserts into the sodium dodecyl sulfate micelle primarily as a helix with a conserved glycine at the micelle-water interface. Chang DK, et al. **J Virol** 1997 Sep;71(9):6593-602

Effect of replacing helical glycine residues with alanines on reversible and irreversible stability and production of Aspergillus awamori glucoamylase. Chen HM, et al. **Protein Eng** 1996 Jun;9(6):499-505

Invariant glycines and prolines flanking in loops the strand beta 2 of various (alpha/beta)8-barrel enzymes: a hidden homology? Janeček S. **Protein Sci** 1996 Jun;5(6):1136-43

Helical preferences of alanine, glycine, and aminoisobutyric homopeptides. Alemán C, et al. **Proteins** 1997 May; 28(1):83-93

Flexible glycine rich motif of Escherichia coli deoxyuridine triphosphate nucleotidohydrolase is important for functional but not for structural integrity of the enzyme. Vertessy BG. **Proteins** 1997 Aug;28(4):568-79

2H-->1H cross-polarization in deuterated glycine. Kolodziejski W, et al. **Solid State Nucl Magn Reson** 1996 Aug;7(1):67-72

A novel mutation Gly 1672-->Arg in type 2A and a

homozygous mutation in type 2B von Willebrand disease. Hagiwara T, et al. **Thromb Haemost** 1996 Aug;76(2):253–7

DIAGNOSTIC USE

Protein–energy status and 15N–glycine kinetic study of child a cirrhotic patients fed low– to high–protein energy diets. Dichi I, et al. **Nutrition** 1996 Jul–Aug;12(7–8):519–23

DRUG EFFECTS

The glycine site of the NMDA receptor contributes to neurokinin1 receptor agonist facilitation of NMDA receptor agonist–evoked activity in rat dorsal horn neurons. Heppenstall PA, et al. **Brain Res** 1997 Jan 9;744(2):235–45

GENETICS

Gly(247)–>Asp proenkephalin A mutation is rare in schizophrenia populations. Mikesell MJ, et al. **Am J Med Genet** 1997 Apr 18;74(2):213–5

Remote conformational effects of the Gly–62 –> Leu mutation of the Tn10–encoded metal–tetracycline/H+ antiporter of Escherichia coli and its second–site suppressor mutation. Kimura T, et al. **Biochemistry** 1997 Jun 10; 36(23):6941–6

Construction and characterization of a photosystem II D1 mutant (arginine–269–glycine) of Chlamydomonas reinhardtii. Hutchison RS, et al. **Biochim Biophys Acta** 1996 Nov 12;1277(1–2):83–92

Hypothesis: glucagon receptor glycine to serine missense mutation contributes to one in 20 cases of essential hypertension. Morris BJ, et al. **Clin Exp Pharmacol Physiol** 1996 Dec;23(12):1035–7

Skeletal development in transgenic mice expressing a mutation at Gly574Ser of type II collagen. Maddox BK, et al. **Dev Dyn** 1997 Feb;208(2):170–7

The T transcription factor functions as a dimer and exhibits a common human polymorphism Gly–177–Asp in the conserved DNA–binding domain. Papapetrou C, et al. **FEBS Lett** 1997 Jun 9;409(2):201–6

A natural longer glycine–rich region in IKe filamentous phage confers no selective advantage. Bruno R, et al. **Gene** 1997 Jan 3;184(1):121–3

A glycine (415)–to–serine substitution results in impaired secretion and decreased thermal stability of type III procollagen in a patient with Ehlers–Danlos syndrome type IV. Anderson DW, et al. **Hum Mutat** 1997;9(1):62–3

Serine for glycine substitutions in the C–terminal third of the alpha 1(I) chain of collagen I in five patients with nonlethal osteogenesis imperfecta. Lund AM, et al. **Hum Mutat** 1997;9(4):378–82

Complete deficiency of plasma lecithin–cholesterol acyltransferase (LCAT) activity due to a novel homozygous mutation (Gly–30–Ser) in the LCAT gene. Owen JS, et al. **Hum Mutat** 1996;8(1):79–82

Glycine substitution mutations in the type VII collagen gene (COL7A1) in dystrophic epidermolysis bullosa: implications for genetic counseling. Kon A, et al. **J Invest Dermatol** 1997 Feb;108(2):224–8

Dopamine D3 receptor Gly9/Ser9 polymorphism and schizophrenia: no increased frequency of homozygosity in German familial cases. Rietschel M, et al. **Schizophr Res** 1996 May;20(1–2):181–6

A racial difference in the prevalence of the Arg506–>Gln mutation. Hooper WC, et al. **Thromb Res** 1996 Mar 1; 81(5):577–81

IMMUNOLOGY

Glycine immunoreactivity in the lateral nucleus of the trapezoid body of the cat. Spirou GA, et al. **J Comp Neurol** 1997 Jul 14;383(4):473–88

Glutamate immunoreactivity in the tiger salamander retina differentiates between GABA–immunoreactive and glycine–immunoreactive amacrine cells. Yang CY. **J Neurocytol** 1996 Jul;25(7):391–403

METABOLISM

Immunocytochemical localization of glycine in the lamprey spinal cord with reference to GABAergic and glutamatergic synapses: a light and electron microscopic study. Shupliakov O, et al. **Acta Biol Hung** 1996; 47(1–4):393–410

Hydrogen–bond patterns in 1,4–dihydro–2,3–quinoxalinediones: ligands for the glycine modulatory site on the NMDA receptor. Kubicki M, et al. **Acta Crystallogr B** 1996 Jun 1;52 (Pt 3):487–99

NMDA receptor coagonist glycine site: evidence for a role in lateral hypothalamic stimulation of feeding. Stanley BG, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R790–6

Transport of glycine in the brush border and basal cell membrane vesicles of the human term placenta. Anand RJ, et al. **Biochem Mol Biol Int** 1996 Feb;38(1):21–30

Mutation of Arg154 to Gly154 in urokinase augments its fibrin–specificity. Peng G, et al. **Biochem Mol Biol Int** 1997 Apr;41(5):887–94

Inhibition of a medium chain acyl–CoA synthetase involved in glycine conjugation by carboxylic acids. Kasuya F, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1643–6

Significance of glycine 478 in the metabolism of N–benzyl–1–aminobenzotriazole to reactive intermediates by cytochrome P450 2B1. Kent UM, et al. **Biochemistry** 1997 Sep 30;36(39):11707–16

Binding of cationic (+4) alanine– and glycine–containing oligopeptides to double–stranded DNA: thermodynamic analysis of effects of coulombic interactions and alpha–helix induction. Padmanabhan S, et al. **Biochemistry** 1997 Apr 29;36(17):5193–206

Gly–Gly–containing triplets of low stability adjacent to a type III collagen epitope. Shah NK, et al. **Biochemistry** 1997 May 13;36(19):5878–83

Serine isotopmer analysis by 13C–NMR defines glycine–serine interconversion in situ in the renal proximal tubule. Cowin GJ, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):32–40

Modulation of glycine–serine interconversion by TCA and glycolytic intermediates in normoxic and hypoxic proximal tubules. Cowin GJ, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):41–7

Organic osmolytes and embryos: substrates of the Gly and beta transport systems protect mouse zygotes against the effects of raised osmolarity. Dawson KM, et al. **Biol Reprod** 1997 Jun;56(6):1550–8

Modification of the glycine (co–activator) binding site of the N–methyl–D–aspartate receptor in the guinea pig fetus brain during development following hypoxia. Razdan B, et al. **Brain Res** 1996 Sep 9;733(1):15–20

Quantitative gene expression of two types of glycine transporter in the rat central nervous system. Goebel DJ. **Brain Res Mol Brain Res** 1996 Aug;40(1):139–42

Characterization and regulation of glycine transport in Fusarium oxysporum var. lini. Castro IM, et al. **Braz J Med Biol Res** 1996 Aug;29(8):949–55

Nitrosated glycine derivatives as a potential source of O6–methylguanine in DNA. Shuker DE, et al. **Cancer Res** 1997 Feb 1;57(3):366–9

Does hepatic ATP depletion impair glycine conjugation in vivo? Gregus Z, et al. **Drug Metab Dispos** 1996 Dec; 24(12):1347–54

Lipoic acid impairs glycine conjugation of benzoic acid and renal excretion of benzoylglycine. Gregus Z, et al. **Drug Metab Dispos** 1996 Jun;24(6):682–8

Comparison of in vitro carnitine and glycine conjugation with branched–side chain and cyclic side chain carboxylic acids in rats. Kanazu T, et al. **Drug Metab Dispos** 1997 Feb;25(2):149–53

The GLY1 gene of Saccharomyces cerevisiae encodes a low–specific L–threonine aldolase that catalyzes cleavage of L–allo–threonine and L–threonine to glycine—expression of the gene in Escherichia coli and purification and characterization of the enzyme. Liu JQ, et al. **Eur J Biochem** 1997 Apr 15;245(2):289–93

GABA and glycine in synaptic glomeruli of the rat spinal dorsal horn. Todd AJ. **Eur J Neurosci** 1996 Dec; 8(12):2492–8

Pharmacology of ACEA–1416: a potent systemically active NMDA receptor glycine site antagonist. Ilyin VI, et al. **Eur J Pharmacol** 1996 Aug 29;310(2–3):107–14

Binding of the radiolabeled glycine site antagonist [3H]MDL 105,519 to homomeric NMDA–NR1a receptors. Siegel BW, et al. **Eur J Pharmacol** 1996 Oct 3;312(3):357–65

Tricyclic heteroaromatic systems. 3–substituted 1,2,3,5,6,7–hexahydro–2,5,6–trioxopyrazino[1,2,3–de]–quinoxalines as novel antagonists at the glycine–NMDA site. Varano F, et al. **Farmaco** 1997 Mar;52(3):179–82

Involvement of cyanide–resistant and rotenone–insensitive pathways of mitochondrial electron transport during oxidation of glycine in higher plants. Igamberdiev AU, et al. **FEBS Lett** 1997 Jul 28;412(2):265–9

Permeation and gating of alpha1 glycine–gated channels expressed at low and high density in Xenopus oocyte. Maammar M, et al. **FEBS Lett** 1997 Sep 1;414(1):99–104

Cutaneous xenobiotic metabolism: glycine conjugation in human and rat keratinocytes. Nasseri–Sina P, et al. **Food Chem Toxicol** 1997 Mar–Apr;35(3–4):409–16

Immunocytochemical localization of glycine in a subset of cartwheel cells of the dorsal cochlear nucleus in rats. Gates TS, et al. **Hear Res** 1996 Jul;96(1–2):157–66

Synthesis and characterization of selenolipoylated H–protein of the glycine cleavage system. Fujiwara K, et al. **J Biol Chem** 1997 Aug 8;272(32):19880–3

Role of the glycine triad in the ATP–binding site of cAMP–dependent protein kinase. Hemmer W, et al. **J Biol Chem** 1997 Jul 4;272(27):16946–54

Sex–lethal interactions with protein and RNA. Roles of glycine–rich and RNA binding domains. Wang J, et al. **J Biol Chem** 1997 Aug 29;272(35):22227–35

An alanine residue in the M3–M4 linker lines the glycine binding pocket of the N–methyl–D–aspartate receptor. Wood MW, et al. **J Biol Chem** 1997 Feb 7;272(6):3532–7

Neuroprotective effect of NMDA receptor glycine recognition site antagonism persists when brain temperature is controlled. Takaoka S, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):161–7

Distribution of GABAergic and glycinergic premotor neurons projecting to the facial and hypoglossal nuclei in the rat. Li YQ, et al. **J Comp Neurol** 1997 Feb 10; 378(2):283–94

gamma–Aminobutyric acid and glycine in the baboon cochlear nuclei: an immunocytochemical colocalization study with reference to interspecies differences in inhibitory systems. Moore JK, et al. **J Comp Neurol** 1996 Jun 10; 369(4):497–519

Extracts from rhizomes of Cyperus articulatus (Cyperaceae) displace [3H]CGP39653 and [3H]glycine binding from cortical membranes and selectively inhibit NMDA receptor–mediated neurotransmission. Bum EN, et al. **J Ethnopharmacol** 1996 Nov;54(2–3):103–11

Silver intensification of immunocolloidal gold on ultrathin plastic sections applied to the study of the neuronal distribution of GABA and glycine. Juiz JM, et al. **J Hirnforsch** 1996;37(1):51–6

Distribution of glycine and GABA immunoreactivities in the cochlear nucleus: quantitative patterns of putative inhibitory inputs on three cell types. Juiz JM, et al. **J Hirnforsch** 1996;37(4):561–74

Protein interactions with bivalent tin. 1. Hydrolysis and complexation of tin(II) ion with glycine. Djurdjevic P, et al. **J Inorg Biochem** 1996 Apr;62(1):17–29

Structure–activity relationships of 4–hydroxy–3–nitroquinolin–2(1H)–ones as novel antagonists at the glycine site of N–methyl–D–aspartate receptors. Cai SX, et al. **J Med Chem** 1996 Nov 8; 39(23):4682–6

Structure–activity relationships of alkyl– and alkoxy–substituted 1,4–dihydroquinoxaline–2,3–diones: potent and systemically active antagonists for the glycine site of the NMDA receptor. Cai SX, et al. **J Med Chem** 1997 Feb 28;40(5):730–8

4–substituted–3–phenylquinolin–2(1H)–ones: acidic and nonacidic glycine site N–methyl–D–aspartate antagonists with in vivo activity. Carling RW, et al. **J Med Chem** 1997 Feb 28;40(5):754–65

Analogs of 3–hydroxy–1H–1–benzazepine–2,5–dione: structure–activity relationship at N–methyl–D–aspartate receptor glycine sites. Guzikowski AP, et al. **J Med Chem** 1996 Nov 8;39(23):4643–53

Influence of hypo–osmolality on the activity of short–chain neutral amino acid carriers in trout (Salmo trutta) red blood cells. Gallardo MA, et al. **J Membr Biol** 1997 Jan 15; 155(2):113–9

The effect of an increase of protein intake on whole–body protein turnover in elderly women is tracer dependent. Pannemans DL, et al. **J Nutr** 1997 Sep;127(9):1788–94

[3H]MDL 105,519, a high–affinity radioligand for the N–methyl–D–aspartate receptor–associated glycine recognition site. Baron BM, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):62–8

Aminergic modulation of glycine release in a spinal network controlling swimming in Xenopus laevis. McDearmid JR, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):111–7

Nonketotic hyperglycinemia: biochemical, molecular, and neurological aspects. Kure S, et al. **Jpn J Hum Genet** 1997 Mar;42(1):13–22 (31 ref.)

Progression of ischaemic stroke and excitotoxic aminoacids. Castillo J, et al. **Lancet** 1997 Jan 11;349(9045):79–83

A microdialysis study of glycinamide, glycine and other amino acid neurotransmitters in rat frontal cortex and hippocampus after the administration of milacemide, a glycine pro–drug. Doheny MH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):157–63

A postmortem study of glycine and its potential precursors in chronic schizophrenics. Kurumaji A, et al. **Neurochem Int** 1996 Sep;29(3):239–45

Interactions of glycine and strychnine with their receptor recognition sites in mouse spinal cord. O'Connor V, et al. **Neurochem Int** 1996 Oct;29(4):423–34

Amino acid metabolism in rat hippocampus during the period of brain growth spurt. Govinatzki MT, et al. **Neurochem Res** 1997 Jan;22(1):23–6

The mu–opioid receptor (MOR1) is mainly restricted to neurons that do not contain GABA or glycine in the superficial dorsal horn of the rat spinal cord. Kemp T, et al. **Neuroscience** 1996 Dec;75(4):1231–8

Distribution of glycine–immunoreactive cell bodies and fibers in the rat brain. Rampon C, et al. **Neuroscience** 1996 Dec; 75(3):737–55

Mechanism of DNA transesterification by vaccinia topoisomerase: catalytic contributions of essential residues Arg–130, Gly–132, Tyr–136 and Lys–167. Wittschieben J, et al. **Nucleic Acids Res** 1997 Aug 1;25(15):3001–8

Serine and glycine metabolism in hepatocytes from mid gestation fetal lambs. Narkewicz MR, et al. **Pediatr Res** 1996 Jun;39(6):1085–90

Presynaptic interactions between acetylcholine and glycine in the human brain. Marchi M, et al. **Prog Brain Res** 1996; 109:225–9 (35 ref.)

Glycyldodecylamide, a phencyclidine behavioral antagonist, blocks cortical glycine uptake: implications for schizophrenia and substance abuse. Javitt DC, et al. **Psychopharmacology (Berl)** 1997 Jan;129(1):96–8

Effect of carnitine administration on glycine metabolism in patients with isovaleric acidemia: significance of acetylcarnitine determination to estimate the proper carnitine dose. Itoh T, et al. **Tohoku J Exp Med** 1996 Jun; 179(2):101–9

Analysis of the distribution of glycine and GABA in amacrine cells of the developing rabbit retina: a comparison with the ontogeny of a functional GABA transport system in retinal neurons. Crook DK, et al. **Vis Neurosci** 1997 Jul–Aug;14(4):751–63

Calretinin in the cat retina: colocalizations with other calcium–binding proteins, GABA and glycine. Goebel DJ, et al. **Vis Neurosci** 1997 Mar–Apr;14(2):311–22

[Effect of dl–3–butylphthalide on the striatum extracellular amino acid and dopamine contents in the rat during

cerebral ischemia] Huang XX, et al. **Yao Hsueh Hsueh Pao** 1996;31(4):246–9 (Eng. Abstr.) **(Chi)**

[The metabolism of [2–(14)C] glycine in rat tissues in vivo] Brodin SV, et al. **Ukr Biokhim Zh** 1996 Mar–Apr; 68(2):34–7 (Eng. Abstr.) **(Ukr)**

PHARMACOKINETICS

Atypical signs of glycine absorption following transurethral resection of the prostate: two case reports. Tauzin–Fin P, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):471–4

Size–related properties of vestibular afferent fibers in the frog: uptake of and immunoreactivity for glycine and aspartate/glutamate. Straka H, et al. **Neuroscience** 1996 Feb;70(3):685–96

The effect of intracervical vasopressin on the systemic absorption of glycine during hysteroscopic endometrial ablation [letter; comment] Ankum WM. **Obstet Gynecol** 1996 Nov;88(5):901–2. Comment on: Obstet Gynecol 1996 Jun;87(6):1025–9.

PHARMACOLOGY

A diet containing glycine improves survival in endotoxin shock in the rat. Ikejima K, et al. **Am J Physiol** 1996 Jul; 271(1 Pt 1):G97–103

Kupffer cells contain a glycine–gated chloride channel. Ikejima K, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1581–6

A synthetic peptide derived from glycine–gated Cl– channel induces transepithelial Cl– and fluid secretion. Wallace DP, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1672–9

Glycine minimizes reperfusion injury in a low–flow, reflow liver perfusion model in the rat. Zhong Z, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):G332–8

Inhibitory effect of methylxanthines on glycine–induced Cl current in dissociated rat hippocampal neurons. Kawa K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:449–53

Effect of exogenous glycine on peptidoglycan composition and resistance in a methicillin–resistant Staphylococcus aureus strain. de Jonge BL, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1498–503

Pathology of the heart after overhydration with glycine solution in the mouse. Hahn RG, et al. **APMIS** 1996 Dec; 104(12):915–20

Tyrosine phosphorylation of insulin receptor substrate–1 and activation of the PI–3–kinase pathway by glycine–extended gastrin precursors. Kowalski–Chauvel A, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):687–92

Epoxyethylglycyl peptides as inhibitors of oligosaccharyltransferase: double–labelling of the active site. Bause E, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):95–102

Organic osmolytes and embryos: substrates of the Gly and beta transport systems protect mouse zygotes against the effects of raised osmolarity. Dawson KM, et al. **Biol Reprod** 1997 Jun;56(6):1550–8

Synergistic effect of alanine and glycine on bovine embryos cultured in a chemically defined medium and amino acid uptake by vitro–produced bovine morulae and blastocysts. Lee ES, et al. **Biol Reprod** 1996 Dec;55(6):1383–9

Chemotaxis of the unicellular green alga Dunaliella salina and the ciliated Tetrahymena pyriformis—effects of glycine, lysine, and alanine, and their oligopeptides. Kóhidai L, et al. **Biosci Rep** 1996 Dec;16(6):467–76

Glycine–induced extracellular secretion of a recombinant cytochrome expressed in Escherichia coli. Kaderbhai N, et al. **Biotechnol Appl Biochem** 1997 Feb;25 (Pt 1):53–61

Calcium homeostasis during i.v. infusion of 1.5% glycine in anaesthetized pigs [see comments] Chassard D, et al. **Br J Anaesth** 1996 Aug;77(2):271–3. Comment in: Br J Anaesth 1996 Dec;77(6):810–1.

Potentiation of chloride responses to glycine by three 5–HT3 antagonists in rat spinal neurones. Chesnoy–Marchais D. **Br J Pharmacol** 1996 Aug;118(8):2115–25

Single–channel evidence for glycine and NMDA requirement in NMDA receptor activation. Currás MC, et al. **Brain Res** 1996 Nov 18;740(1–2):27–40

Heterogeneous current responses to GABA and glycine are present in post–natally cultured hippocampal neurons. Fatima–Shad K, et al. **Brain Res** 1995 Dec 18;704(2):246–55

Modulation of glycine–induced chloride current in acutely dissociated rat periaqueductal gray neurons by mu–opioid agonist DAGO. Min BI, et al. **Brain Res** 1996 Sep 23; 734(1–2):72–8

High extracellular glycine does not potentiate N–methyl–D–aspartate–evoked depolarization in vivo. Obrenovitch TP, et al. **Brain Res** 1997 Jan 23; 746(1–2):190–4

Competitive inhibition of the glycine–induced current by pregnenolone sulfate in cultured chick spinal cord neurons. Wu FS, et al. **Brain Res** 1997 Mar 7;750(1–2):318–20

Glycine–activated whole cell and single channel currents in rat cerebellar granule cells in culture. Virginio C, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):30–40

Strychnine–dependent allodynia in the urethane–anesthetized rat is segmentally distributed and prevented by intrathecal glycine and betaine. Sherman SE, et al. **Can J Physiol Pharmacol** 1995 Dec;73(12):1698–705

A cholecystokinin–B receptor antagonist potentiates GABAergic and glycinergic inhibition in the nucleus of the solitary tract of the rat. McLean HA, et al. **Eur J Neurosci** 1996 Jun;8(6):1078–84

Glycine causes increased excitability and neurotoxicity by activation of NMDA receptors in the hippocampus. Newell DW, et al. **Exp Neurol** 1997 May;145(1):235–44

Glycine protects against hepatocyte killing by KCN or hypoxia by preventing intracellular Na+ overload in the rat. Carini R, et al. **Hepatology** 1997 Jul;26(1):107–12

Lack of influence of glycine on the single dose pharmacokinetics of acetylsalicylic acid in man. Schurer M, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):282–7

N–type calcium channel blockers from a marine bacterium, Cytophaga sp. SANK 71996. Morishita T, et al. **J Antibiot (Tokyo)** 1997 Jun;50(6):457–68

Glycine produced pressor responses when microinjected in the pressor areas of pons and medulla in cats. Wu WC, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):1–11

Protection by glycine against chemical ischemia produced by cyanide in cultured hepatocytes. Sakaida I, et al. **J Gastroenterol** 1996 Oct;31(5):684–90

Embryonic rat spinal cord neurons change expression of glycine receptor subtypes during development in vitro. Withers MD, et al. **J Neurobiol** 1997 Jun 5;32(6):579–92

Mechanisms of GABA– and glycine–induced increases of cytosolic Ca2+ concentrations in chick embryo ciliary ganglion cells. Sorimachi M, et al. **J Neurochem** 1997 Aug; 69(2):797–805

Glycine effects on glutamate–receptor elicited acetylcholinesterase release from slices and synaptosomes of the spinal ventral horn. Rodríguez–Ithurralde D, et al. **J Neurol Sci** 1996 Aug;139 Suppl:76–82

Glycine–evoked currents in acutely dissociated neurons of the guinea pig ventral cochlear nucleus. Harty TP, et al. **J Neurophysiol** 1996 Jun;75(6):2300–11

Glycine current in rat septal cholinergic neuron in culture: monophasic positive modulation by Zn2+. Kumamoto E, et al. **J Neurophysiol** 1996 Jul;76(1):227–41

Glycine regulation of synaptic NMDA receptors in hippocampal neurons. Wilcox KS, et al. **J Neurophysiol** 1996 Nov;76(5):3415–24

Potentiation of NMDA receptor–mediated responses by dynorphin at low extracellular glycine concentrations. Zhang L, et al. **J Neurophysiol** 1997 Aug;78(2):582–90

Glycinergic inhibition contributes to the generation of rostral scratch motor patterns in the turtle spinal cord. Currie SN, et al. **J Neurosci** 1997 May 1;17(9):3322–33

Partition of transient and sustained inhibitory glycinergic input to retinal ganglion cells. Han Y, et al. **J Neurosci** 1997 May 15;17(10):3392–400

Urinary excretion of 5–L–oxoproline (pyroglutamic acid) is increased during recovery from severe childhood malnutrition and responds to supplemental glycine. Persaud C, et al. **J Nutr** 1996 Nov;126(11):2823–30

Potentiation of the glycine–activated Cl– current by ethanol in cultured mouse spinal neurons. Aguayo LG, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1116–22

Glycine and calcium–dependent effects of lead on N–methyl–D–aspartate receptor function in rat hippocampal neurons. Marchioro M, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):143–53

Spontaneous motoneuronal activity mediated by glycine and GABA in the spinal cord of rat fetuses in vitro. Nishimaru H, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):131–43

Differential cytoprotection by glycine against oxidant damage to proximal tubule cells. Sogabe K, et al. **Kidney Int** 1996 Sep;50(3):845–54

Glycine–protected, hypoxic, proximal tubules develop severely compromised energetic function. Weinberg JM, et al. **Kidney Int** 1997 Jul;52(1):140–51

Cytoprotection by glycine against hypoxia–induced injury in cultured hepatocytes. Nagatomi A, et al. **Liver** 1997 Apr; 17(2):57–62

Activation of N–methyl–D–aspartate receptors by glycine: role of an aspartate residue in the M3–M4 loop of the NR1 subunit. Williams K, et al. **Mol Pharmacol** 1996 Oct; 50(4):701–8

Use of subunit–specific antisense oligodeoxynucleotides to define developmental changes in the properties of N–methyl–D–aspartate receptors. Zhong J, et al. **Mol Pharmacol** 1996 Sep;50(3):631–8

Glycine does not reverse the inhibitory actions of ethanol on NMDA receptor functions in cerebellar granule cells. Cebers G, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec;354(6):736–45

Ca2+ and H+ antagonize the decrease of [3H]MK–801 binding induced by glutamate and glycine in the presence of Mg2+. Liu Y, et al. **Neurochem Int** 1996 Apr; 28(4):401–15

Evidence for functional co–activation of N–methyl–D–aspartate receptors by glycine. Fern R, et al. **Neuroreport** 1996 Aug 12;7(12):1953–6

Modulation of NMDA–induced cytosolic calcium levels by ACPC in cultured cerebellar granule cells. Sureda FX, et al. **Neuroreport** 1996 Jul 29;7(11):1824–8

Analysis of the glycine binding domain of the NMDA receptor channel zeta 1 subunit. Uchino S, et al. **Neuroreport** 1997 Jan 20;8(2):445–9

Changes in intracellular calcium induced by NMDA in cultured rat hippocampal neurons require exogenous glycine. Andjus PR, et al. **Neurosci Lett** 1996 May 24; 210(1):25–8

Chronic administration of DL–allyl–glycine into the neostriatum, disorganises the firing modes of the nigral dopaminergic neurons in the rat. Bioulac B, et al. **Neurosci Lett** 1997 Apr 18;226(1):21–4

Glycinergic inhibition in the turtle spinal cord regulates the intensity and pattern of fictive flexion reflex motor output. Currie SN, et al. **Neurosci Lett** 1996 Feb 23;205(2):75–8

Chronic antipsychotic treatment alters glycine–stimulated NMDA receptor binding in rat brain. McCoy L, et al. **Neurosci Lett** 1996 Aug 2;213(2):137–41

Glycine activation of human homomeric alpha 1 glycine receptors is sensitive to pressure in the range of the high pressure nervous syndrome. Roberts RJ, et al. **Neurosci Lett** 1996 Apr 19;208(2):125–8

Optical studies of the biphasic modulatory effects of glycine on excitatory postsynaptic potentials in the chick brainstem and their embryogenesis. Sato K, et al. **Neuroscience** 1996 Jun;72(3):833–46

Glycine–mediated inhibitory postsynaptic potentials in the medial pontine reticular formation of the rat in vitro. Stevens DR, et al. **Neuroscience** 1996 Aug;73(3):791–6

Inhibition of superoxide dismutase from Ascaris suum by benzimidazoles and synthesized pyrimidine and glycine derivatives. Sanchez–Moreno M, et al. **Pharmacology** 1996 Jan;52(1):61–8

Effect of glycine on antidepressant– and anxiolytic–like action of 1–aminocyclopropanecarboxylic acid (ACPC) in rats. Chojnacka–Wójcik E, et al. **Pol J Pharmacol** 1996 Nov–Dec;48(6):627–9

Glycine–induced long–term potentiation is associated with structural and functional modifications of alpha–amino–3–hydroxyl–5–methyl–4–isoxazolepropionic acid receptors. Musleh W, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9451–6

Effects of glycine on the mouse neuromuscular junction. Re L, et al. **Receptors Channels** 1996;4(2):105–9

Effect of glycine on cisplatin nephrotoxicity and heat–shock protein 70 expression in the rat kidney. Musio F, et al. **Ren Fail** 1997 Jan;19(1):33–46

Promoting effect of monosodium aspartate, but not glycine, on renal pelvis and urinary bladder carcinogenesis in rat induced by N–butyl–N–(4–hydroxybutyl)nitrosamine. Kitamura M, et al. **Toxicol Pathol** 1996 Sep–Oct; 24(5):573–9

The effect of hypotonicity, glutamine, and glycine on red cell preservation. Greenwalt TJ, et al. **Transfusion** 1997 Mar;37(3):269–76

Protection by Carolina rinse solution, acidotic pH, and glycine against lethal reperfusion injury to sinusoidal endothelial cells of rat livers stored for transplantation. Currin RT, et al. **Transplantation** 1996 Dec 15; 62(11):1549–58

The effects of GABA and glycine on horizontal cells of the rabbit retina. Blanco R, et al. **Vision Res** 1996 Dec; 36(24):3987–95

[Balance of neuromediatory amino acids and impairment of integral brain activity caused by local ischemia of frontal lobe in rats: effects of piracetam and glycine] Raevskiĭ KS, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):370–3 **(Rus)**

PHYSIOLOGY

Glycine: the other inhibitory neurotransmitter. Schofield P. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):219A–223A

GABAergic and glycinergic inputs to the rabbit oculomotor nucleus with special emphasis on the medial rectus subdivision. Wentzel PR, et al. **Brain Res** 1996 Jan 29; 707(2):314–9

Taurine inhibits rat substantia nigra pars reticulata neurons by activation of GABA– and glycine–linked chloride conductance. Ye G, et al. **Brain Res** 1997 Feb 21; 749(1):175–9

Electrophysiological evidence for multiple glycinergic inputs to neonatal rat sympathetic preganglionic neurons in vitro. Krupp J, et al. **Eur J Neurosci** 1997 Aug;9(8):1711–9

Suppressor analysis of mutations in the loop 2–3 motif of lactose permease: evidence that glycine–64 is an important residue for conformational changes. Jessen–Marshall AE, et al. **J Bacteriol** 1997 Apr;179(8):2616–22

Glycine at the NMDA receptor in cat visual cortex: saturation and changes with age. Czepita D, et al. **J Neurophysiol** 1996 Jan;75(1):311–7

Glycine and GABA influence binaural processing in the inferior colliculus of the mustache bat. Klug A, et al. **J Neurophysiol** 1995 Oct;74(4):1701–13

GABA– and glycine–mediated fall of intracellular pH in rat medullary neurons in situ. Lückermann M, et al. **J Neurophysiol** 1997 Apr;77(4):1844–52

Developmental influence of glycinergic transmission: regulation of NMDA receptor–mediated EPSPs. Kotak VC, et al. **J Neurosci** 1996 Mar 1;16(5):1836–43

GABAergic and glycinergic IPSCs in ganglion cells of rat retinal slices. Protti DA, et al. **J Neurosci** 1997 Aug 15; 17(16):6075–85

The role of glycine in spinal shock. Simpson RK Jr, et al. **J Spinal Cord Med** 1996 Oct;19(4):215–24

Molecular biology of glycinergic neurotransmission. Zafra F, et al. **Mol Neurobiol** 1997 Jun;14(3):117–42 (187 ref.)

Origin of the glycinergic innervation of the rat trigeminal motor nucleus. Rampon C, et al. **Neuroreport** 1996 Nov 25;7(18):3081–5

Neurotransmission by neurons that use serotonin, noradrenaline, glutamate, glycine, and gamma–aminobutyric acid in the normal and injured spinal cord. Shapiro S. **Neurosurgery** 1997 Jan;40(1):168–76;

discussion 177 (109 ref.)

THERAPEUTIC USE

Effect of glutamine or glycine containing oral electrolyte solutions on mucosal morphology, clinical and biochemical findings, in calves with viral induced diarrhea. Naylor JM, et al. **Can J Vet Res** 1997 Jan;61(1):43–8

Absorption of glycine irrigating solution during endoscopic transanal resection of rectal tumors. Debras B, et al. **Dis Colon Rectum** 1996 Nov;39(11):1245–8

A short-term study of the effects of SBHAN, a novel compound, on gingival inflammation in the beagle dog. Cutler CW, et al. **J Periodontol** 1997 May;68(5):448–55

Reduction in the mechanonociceptive response by intrathecal administration of glycine and related compounds. Simpson RK Jr, et al. **Neurochem Res** 1996 Oct;21(10):1221–6

Reduction in thermal hyperalgesia by intrathecal administration of glycine and related compounds. Simpson RK Jr, et al. **Neurochem Res** 1997 Jan;22(1):75–9

The influence of glycine and related compounds on spinal cord injury-induced spasticity. Simpson RK Jr, et al. **Neurochem Res** 1995 Oct;20(10):1203–10

Glycinergic augmentation of NMDA receptor-mediated neurotransmission in the treatment of schizophrenia. Heresco-Levy U, et al. **Psychopharmacol Bull** 1996; 32(4):731–40

Prevention of cyclosporine-induced nephrotoxicity with dietary glycine. Thurman RG, et al. **Transplantation** 1997 Jun 15;63(11):1661–7

[Successful therapy of salicylate poisoning using glycine and activated charcoal] Mühlebach S, et al. **Schweiz Med Wochenschr** 1996 Dec 7;126(49):2127–9 (Eng. Abstr.) **(Ger)**

[Glycine as an agent to correct the functional state of patients with opium addiction] Mashkova VM, et al. **Fiziol Cheloveka** 1996 Jul-Aug;22(4):50–7 **(Rus)**

TOXICITY

Expired breath ethanol measurement and toxicity of glycine solution in the mouse [letter; comment] Harrison RH. **Br J Urol** 1996 Nov;78(5):809–10. Comment on: **Br J Urol** 1996 Feb;77(2):198–202. Comment on: **Br J Urol** 1996 Feb;77(2):203–6.

Survival after high-dose intraperitoneal infusion of glycine solution in the mouse. Olsson J, et al. **Scand J Urol Nephrol** 1997 Apr;31(2):119–21

Mutagenic activity of glycine upon nitrosation in the presence of chloride and human gastric juice: a possible role in gastric carcinogenesis. Gaspar J, et al. **Teratog Carcinog Mutagen** 1996;16(5):275–86

URINE

Renal excretion and accumulation kinetics of 2-methylbenzoylglycine in the isolated perfused rat kidney. Masereeuw R, et al. **J Pharm Pharmacol** 1996 Jun; 48(6):560–5

Quantitative structure-metabolism relationships for substituted benzoic acids in the rabbit: prediction of urinary excretion of glycine and glucuronide conjugates. Cupid BC, et al. **Xenobiotica** 1996 Feb;26(2):157–76

GLYCINE AGENTS

ANTAGONISTS & INHIBITORS

Neuronal model of tactile allodynia produced by spinal strychnine: effects of excitatory amino acid receptor antagonists and a mu-opiate receptor agonist. Sorkin LS, et al. **Pain** 1996 Dec;68(2–3):283–92

CHEMICAL SYNTHESIS

Synthesis and pharmacological study of some new beta-(dialkylaminomethyl)- gamma-butyrolactones and their tetrahydrofuran analogues. Foscolos GB, et al. **Farmaco** 1996 Jan;51(1):19–26

CHEMISTRY

Novel indole-2-carboxamide and cycloalkeno[1,2-b]indole derivatives. Structure-activity relationships for high inhibition of human LDL peroxidation. Kuehm-Caubere C, et al. **J Med Chem** 1997 Apr 11;40(8):1201–10

PHARMACOLOGY

Influence of picrotoxin and strychnine on the spectral sensitivity of the turtle ERG b- and d-wave: I. Dark adaptation. Kupenova P, et al. **Acta Physiol Scand** 1997 Mar;159(3):217–25

Influence of picrotoxin and strychnine on the spectral sensitivity of the turtle ERG b- and d-waves: II. Light adaptation. Vitanova L, et al. **Acta Physiol Scand** 1997 Mar; 159(3):227–35

Innocuous hair deflection evokes a nociceptive-like activation of catechol oxidation in the rat locus coeruleus following intrathecal strychnine: a biochemical index of allodynia using in vivo voltammetry. Milne B, et al. **Brain Res** 1996 Apr 29;718(1–2):198–202

The glycine antagonist GV150526 protects somatosensory evoked potentials and reduces the infarct area in the MCAo model of focal ischemia in the rat. Bordi F, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):425–33

Picolinic acid and indole-2-carboxylic acid: two types of glycinergic compounds modulate motor function differentially. Tonohiro T, et al. **Gen Pharmacol** 1997 Apr; 28(4):555–60

Substituted indole-2-carboxylates as in vivo potent antagonists acting as the strychnine-insensitive glycine binding site. Di Fabio R, et al. **J Med Chem** 1997 Mar 14;40(6):841–50

Spinal strychnine alters response properties of nociceptive-specific neurons in rat medial thalamus. Sherman SE, et al. **J Neurophysiol** 1997 Aug;78(2):628–37

Localization of rhythmogenic networks responsible for spontaneous bursts induced by strychnine and bicuculline in the rat isolated spinal cord. Bracci E, et al. **J Neurosci** 1996 Nov 1;16(21):7063–76

Effect of strychnine on rat locus coeruleus neurones during sleep and wakefulness. Darracq L, et al. **Neuroreport** 1996 Dec 20;8(1):351–5

Strychnine eliminates reciprocation and augmentation of respiratory bursts of the in vitro frog brainstem. Kimura N, et al. **Neurosci Lett** 1997 Mar 28;225(1):9–12

Strychnine blocks inhibitory postsynaptic potentials elicited in masseter motoneurons by sensory stimuli during carbachol-induced motor atonia. Kohlmeier KA, et al. **Neuroscience** 1997 Jun;78(4):1195–202

Role of the strychnine-insensitive glycine binding site in the nucleus accumbens and anterodorsal striatum in sensorimotor gating: a behavioral and microdialysis study. Kretschmer BD, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):131–8

[Inactivity of imipramine in the forced swimming test on old mice or on young mice undergone chronic glycinergic treatment] Vamvakides A. **Ann Pharm Fr** 1996;54(6):260–2 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Reduction in thermal hyperalgesia by intrathecal administration of glycine and related compounds. Simpson RK Jr, et al. **Neurochem Res** 1997 Jan;22(1):75–9

Prognostic clues and outcome of early treatment of nonketotic hyperglycinemia. Boneh A, et al. **Pediatr Neurol** 1996 Sep;15(2):137–41

TOXICITY

Strychnine-dependent allodynia in the urethane-anesthetized rat is segmentally distributed and prevented by intrathecal glycine and betaine. Sherman SE, et al. **Can J Physiol Pharmacol** 1995 Dec;73(12):1698–705

GLYCINE CHENODEOXYCHOLATE see **GLYCOCHENODEOXYCHOLIC ACID**

GLYCINE CHOLATE see **GLYCOCHOLIC ACID**

GLYCINE DEOXYCHOLATE see **GLYCODEOXYCHOLIC ACID**

GLYCINE MAX see **SOYBEANS**

GLYCINE RECEPTORS see **RECEPTORS, GLYCINE**

GLYCINE-SPECIFIC TRNA see **RNA, TRANSFER, GLY**

GLYCOCALYX

CHEMISTRY

Increase of glycocalyx and altered lectin agglutination profiles of Pasteurella haemolytica A1 after incubation in bovine subcutaneous tissue chambers in vivo or in ruminant serum in vitro. Brogden K, et al. **Infect Immun** 1997 Mar; 65(3):957–63

Datura stramonium lectin staining of glial associated extracellular material in insect brains. Hähnlein I, et al. **J Comp Neurol** 1996 Dec 9;376(2):175–87

IMMUNOLOGY

Schistosoma mansoni: the immune response against cercarial glycocalyx. Hussein AH, et al. **J Parasitol** 1997 Jun; 83(3):424–9

METABOLISM

The effect of high and low Dk/L soft contact lenses on the glycocalyx layer of the corneal epithelium and on the membrane associated receptors for lectins [see comments] Latkovic S, et al. **CLAO J** 1997 Jul;23(3):185–91. Comment in: **CLAO J** 1997 Jul;23(3):148.

Recombinant galectin-1 recognizes mucin and epithelial cell surface glycocalyces of gastrointestinal tract. Wasano K, et al. **J Histochem Cytochem** 1997 Feb;45(2):275–83

[Changes in the structure of erythrocyte membrane during dehydratation] Maksina AG, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):402–4 **(Rus)**

PHYSIOLOGY

Role of the glycocalyx in regulating access of microparticles to apical plasma membranes of intestinal epithelial cells: implications for microbial attachment and oral vaccine targeting. Frey A, et al. **J Exp Med** 1996 Sep 1; 184(3):1045–59

Permselectivity of angiogenic microvessels following alteration of the endothelial fiber matrix by oligosaccharides. Henry CB, et al. **Microvasc Res** 1997 Mar; 53(2):150–5

ULTRASTRUCTURE

Appearance of the capillary endothelial glycocalyx in chronically stimulated rat skeletal muscles in relation to angiogenesis. Brown MD, et al. **Exp Physiol** 1996 Nov; 81(6):1043–6

Characterization of the microvascular glycocalyx in normal and injured spinal cord in the rat. Noble LJ, et al. **J Comp Neurol** 1996 Dec 23;376(4):542–56

Paraformaldehyde effect on ruthenium red and lysine preservation and staining of the staphylococcal glycocalyx. Fassel TA, et al. **Microsc Res Tech** 1997 Mar 1;36(5):422–7

GLYCOCHENODEOXYCHOLATE see **GLYCOCHENODEOXYCHOLIC ACID**

GLYCOCHENODEOXYCHOLIC ACID

ANTAGONISTS & INHIBITORS

Inhibition of bile-salt-induced hepatocyte apoptosis by the antioxidant lazaroid U83836E. Patel T, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):116–22

TOXICITY

Cytoprotection by fructose and other ketohexoses during bile salt-induced apoptosis of hepatocytes. Zeid IM, et al. **Hepatology** 1997 Jan;25(1):81–6

GLYCOCHOLATE see **GLYCOCHOLIC ACID**

GLYCOCHOLIC ACID

ANALOGS & DERIVATIVES

Synthesis and characterization of the new cytostatic complex cis-diammineplatinum(II)-chlorocholylglycinate. Criado JJ, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):453–8

CHEMICAL SYNTHESIS

Synthesis and characterization of a new bile acid and platinum(II) complex with cytostatic activity. Criado JJ, et al. **J Lipid Res** 1997 May;38(5):1022–32

An improved synthesis of taurine- and glycine-conjugated bile acids. Momose T, et al. **Lipids** 1997 Jul;32(7):775–8

PHARMACOLOGY

The influence of sodium glycocholate and other additives on the in vivo transfection of plasmid DNA in the lungs. Freeman DJ, et al. **Pharm Res** 1996 Feb;13(2):202–9

GLYCOCONJUGATES

Identification of lectins in the kinetids of Tetrahymena pyriformis. Kovács P, et al. **Cell Biol Int** 1997 Jan; 21(1):17–22

Carbohydrates and glycoconjugates. **Curr Opin Struct Biol** 1996 Oct;6(5):725–32

Syntheses and some applications of chemically defined multivalent glycoconjugates. Roy R. **Curr Opin Struct Biol** 1996 Oct;6(5):692–702 (74 ref.)

The diffusion of knowledge about glycoconjugates through reviews, monographs, textbooks and symposia [letter] Cabezas JA. **Glycoconj J** 1996 Jun;13(3):iii–vi

Second electronic glycoscience conference [letter] Wilson I. **Glycoconj J** 1996 Jun;13(3):vi–vii

[Recent advances in glycobiology on KDN-containing glycoconjugates] Kitajima K, et al. **Seikagaku** 1997 Jan; 69(1):44–51 (33 ref.) **(Jpn)**

ANALYSIS

Distribution of glycoconjugates in the uterine tube (oviduct) of horses. Ball BA, et al. **Am J Vet Res** 1997 Aug; 58(8):816–22

Cationic colloidal gold staining of acidic glycoconjugates in mouse Paneth cells. Ge YB, et al. **Arch Histol Cytol** 1997 Jun;60(2):133–42

Analysis of the distribution of glycoconjugates in the digestive gland of the bivalve mollusc Mytilus galloprovincialis by conventional and lectin histochemistry. Robledo Y, et al. **Cell Tissue Res** 1997 Jun;288(3):591–602

Salivary glands, glycoconjugates and diabetes mellitus. Pinkstaff CA. **Eur J Morphol** 1996 Aug;34(3):187–90

Regarding galactofuranose-containing glycoconjugates [letter; comment] Bock K, et al. **Glycobiology** 1996 Jan; 6(1):3. Comment on: Glycobiology 1995 Sep;5(6):547–52.

An improved ELISA for the determination of sialyl Lewis(x) structures on purified glycoconjugates. Katnik I, et al. **Glycoconj J** 1996 Dec;13(6):1043–7

A comparative study of lectin binding to cultured chick sternal chondrocytes and intact chick sternum. McClure SF, et al. **Glycoconj J** 1997 Apr;14(3):365–77

Recognition of glycoconjugates by Helicobacter pylori: an apparently high-affinity binding of human polyglycosylceramides, a second sialic acid-based specificity. Miller-Podraza H, et al. **Glycoconj J** 1996 Jun;

13(3):453–60
Identification of lectin binding sites in the rat brain. Zambenedetti P, et al. **Glycoconj J** 1996 Jun;13(3):341–6
Glycoconjugates of the human trabecular meshwork: a lectin histochemical study. Chapman SA, et al. **Histochem J** 1995 Nov;27(11):869–81
Histochemical study of expression of lectin–reactive carbohydrate epitopes and glycoligand–binding sites in normal human appendix vermiformis, colonic mucosa, acute appendicitis and colonic adenoma. Brinck U, et al. **Histol Histopathol** 1996 Oct;11(4):919–30
CD15–containing glycoconjugates in the central nervous system. Gocht A, et al. **Histol Histopathol** 1996 Oct; 11(4):1007–28 (133 ref.)
Histochemical detection of expression of binding sites for labelled hyaluronic acid and carrier–immobilized synthetic (histo–blood group trisaccharides) or biochemically purified (ganglioside GM1) glycoligands in nasal polyps and other human lesions including neoplasms. Hassid S, et al. **Histol Histopathol** 1996 Oct;11(4):985–92
Lectin histochemistry of the submandibular and sublingual salivary glands in rats. Hirshberg A, et al. **Histol Histopathol** 1996 Oct;11(4):999–1005
Detection of glycoconjugates in the ductus epididymis of the prepubertal and adult horse by lectin histochemistry. Parillo F, et al. **Histol Histopathol** 1997 Jul;12(3):691–700
A histochemical study of the distribution of lectin binding sites in the developing branchial area of the trout Salmo trutta. Rojo MC, et al. **J Anat** 1996 Dec;189 (Pt 3):609–21
Lectin histochemical evaluation of glycoconjugates in dog efferent ductules. Wakui S, et al. **J Anat** 1996 Jun;188 (Pt 3):541–6
Identification of
2–keto–3–deoxy–D–glycero–-galactonononic acid (KDN, deaminoneuraminic acid) residues in mammalian tissues and human lung carcinoma cells. Chemical evidence of the occurrence of KDN glycoconjugates in mammals. Inoue S, et al. **J Biol Chem** 1996 Oct 4;271(40):24341–4
Differentiation of glycoconjugates localized to sensory terminals and selected sites in brain. Spicer SS, et al. **J Comp Neurol** 1996 Feb 5;365(2):217–31
The expulsion of Echinostoma trivolvis from C3H mice: differences in glycoconjugates in mouse versus hamster small intestinal mucosa during infection. Fujino T, et al. **J Helminthol** 1996 Jun;70(2):115–21
Different glycoconjugates in the submucosal glands of the supraglottis and subglottis. Lectin histochemistry study in the hamster. Melgarejo–Moreno P, et al. **J Laryngol Otol** 1997 May;111(5):441–3
[Lectin histochemistry of the glycoconjugates in conjunctival goblet cells] Iwakiri N, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan;101(1):83–6 (Eng. Abstr.) **(Jpn)**
[Glycohistochemical analysis of rat eyelid epithelium] Uehara F, et al. **Nippon Ganka Gakkai Zasshi** 1997 May; 101(5):385–8 (Eng. Abstr.) **(Jpn)**
[Glycohistochemical analysis of seborrheic keratosis in eyelids] Uehara F, et al. **Nippon Ganka Gakkai Zasshi** 1997 May;101(5):429–33 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Insulin stimulates production of glycoconjugate layers on the cell surface of gastric surface mucous cell line GSM06. Tabuchi Y, et al. **Digestion** 1997;58(1):28–33
Synthesis of glycoconjugates by human diseased veins: modulation by procyanidolic oligomers. Drubaix I, et al. **Int J Exp Pathol** 1997 Apr;78(2):117–21
Liposidomycin B inhibits in vitro formation of polyprenyl (pyro)phosphate N–acetylglucosamine, an intermediate in glycoconjugate biosynthesis [letter] Muroi M, et al. **J Antibiot (Tokyo)** 1997 Jan;50(1):103–4

BLOOD

Recognition of glycoconjugates by Helicobacter pylori. Comparison of two sialic acid–dependent specificities based on haemagglutination and binding to human erythrocyte glycoconjugates. Miller–Podraza H, et al. **Glycoconj J** 1997 Jun;14(4):467–71

CHEMICAL SYNTHESIS

Glycobiotechnology: enzymes for the synthesis of nucleotide sugars. Elling L. **Adv Biochem Eng Biotechnol** 1997; 58:89–144 (363 ref.)
A novel method for glycoconjugate synthesis. Tichá M, et al. **Glycoconj J** 1996 Aug;13(4):681–5

CHEMISTRY

Glycoconjugated aroma compounds: occurrence, role and biotechnological transformation. Winterhalter P, et al. **Adv Biochem Eng Biotechnol** 1997;55:73–105 (288 ref.)
Glycoconjugate cross–talk in metastatic cancer cells, leucocytes, parasites and bacteria. Leroy A, et al. **Biochem Soc Trans** 1997 Feb;25(1):228–34 (48 ref.)
Glycoconjugates during the annual sexual cycle in lizard epididymal ductuli efferentes: a histochemical study. Labate M, et al. **Eur J Histochem** 1997;41(1):47–56
Biochemistry of S–layers. Messner P, et al. **FEMS Microbiol Rev** 1997 Jun;20(1–2):25–46 (92 ref.)
Response to the Glyco–Forum [letter] de Lederkremer RM, et al. **Glycobiology** 1997 Jul;7(5):v
Royal Society of Chemistry Carbohydrate Group and Biochemical Society Glycobiology Group Joint Spring Meeting: complex carbohydrates: structure, recognition and synthesis, University of St. Andrews, 25–28 March 1996. Savage A. **Glycoconj J** 1996 Oct;13(5):ix–x
A new glycosylated lipopeptide incorporated into the cell wall of a smooth variant of Gordona hydrophobica. Moormann M, et al. **J Biol Chem** 1997 Apr 18; 272(16):10729–38
Glycoconjugate analysis by capillary electrophoresis. Novotny M. **Methods Enzymol** 1996;271:319–47 (67 ref.)
[The interaction of peripheral blood leukocytes with alpha1–acid glycoprotein, its carbohydrate chains and neoglycoconjugates] Shiian SD, et al. **Gematol Transfuziol** 1996 Mar–Apr;41(2):24–9 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

[Glycoconjugates on the basis of polyacrylamide–-tools for studying lectins, antibodies, and glycosyltransferases in glycobiology, cytochemistry, and histochemistry] Bovin NV. **Bioorg Khim** 1996 Sep;22(9):643–63 (81 ref.) (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Immunologic epitope, gene, and immunity involved in pneumococcal glycoconjugate. Lee CJ, et al. **Crit Rev Microbiol** 1997;23(2):121–42 (131 ref.)
Glycoconjugate vaccines: future combinations. Paradiso PR, et al. **Dev Biol Stand** 1996;87:269–75 (12 ref.)
Report on section 2A antibodies: ABH and other glycoconjugates–-serology. Beck ML, et al. **Transfus Clin Biol** 1997;4(1):29–34
Coordinator's report: ABH and other glycoconjugates–-serology. Beck ML. **Transfus Clin Biol** 1997;4(1):13–6
Report on section 2A antibodies: ABH and other glycoconjugates–-serology. Harrison D, et al. **Transfus Clin Biol** 1997;4(1):23–7
Report on section 2A antibodies: ABH and other glycoconjugates–-serology. Janus G, et al. **Transfus Clin Biol** 1997;4(1):35–40
Immunohistological analysis of antibodies against ABH and other glycoconjugates in normal human pyloric and duodenal mucosae. Le Pendu J, et al. **Transfus Clin Biol** 1997;4(1):41–6
Specificity of monoclonal antibodies against ABH and related structures tested by ELISA with synthetic glycoconjugates. Rieben R, et al. **Transfus Clin Biol** 1997; 4(1):47–54
Report on section 2A antibodies: ABH and other glycoconjugates–-serology. Williams M, et al. **Transfus Clin Biol** 1997;4(1):17–8
[Anti–glycoconjugate antibodies and dysglobulinemic or dysimmune peripheral neuropathies] Steck AJ, et al. **Rev Neurol (Paris)** 1996 May;152(5):400–4 (27 ref.) (Eng. Abstr.) **(Fre)**

ISOLATION & PURIFICATION

Lectin affinity chromatography. West I, et al. **Methods Mol Biol** 1996;59:177–85

METABOLISM

Interactions between glycoconjugates from human respiratory airways and Pseudomonas aeruginosa. Scharfman A, et al. **Am J Respir Crit Care Med** 1996 Oct; 154(4 Pt 2):S163–9 (59 ref.)
Seasonal variations in integumental glycoconjugates of Rana rugosa. Choi BT, et al. **Anat Rec** 1997 Sep;249(1):24–31
M–glycogenin, the protein moiety of Neurospora crassa proteoglycogen, is an auto– and transglucosylating enzyme. Goldraij A, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):909–14
Unexpected carbohydrate cross–binding by Escherichia coli heat–labile enterotoxin. Recognition of human and rabbit target cell glycoconjugates in comparison with cholera toxin. Karlsson KA, et al. **Bioorg Med Chem** 1996 Nov; 4(11):1919–28
Glycoconjugate saccharidic moieties of the exocrine and endocrine pancreas in the chick embryo, newborn and adult. Gheri G, et al. **Biotech Histochem** 1997 May; 72(3):158–67
Identification of surface glycoconjugates in the olfactory system of turtle. Franceschini V, et al. **Brain Res** 1996 Jun 24;725(1):81–7
Preneoplasia–associated expression of calcyclin and of binding sites for synthetic blood group A/H trisaccharide–-exposing neoglycoconjugates in human lung. Kayser K, et al. **Cancer Biochem Biophys** 1997 Jun; 15(4):235–43
Investigation of Vicia graminea lectin– and Vicia unijuga lectin–binding glycoproteins as novel oncofetal antigens in cyst and ascitic fluids of human ovarian tumors in benign, dysplastic, and malignant stages. Ohyama K, et al. **Cancer Detect Prev** 1997;21(4):304–11
Glycoconjugates during the annual sexual cycle in lizard epididymal ductuli efferentes: a histochemical study. Labate M, et al. **Eur J Histochem** 1997;41(1):47–56
Contribution of confocal laser scanning microscopy to glycochemistry of mouse and rat submandibular glands by single and double lectin staining. Menghi G, et al. **Eur J Histochem** 1997;41(2):91–104
Lectin histochemical study of glycoconjugates in the chick embryo proventriculus. Gheri G, et al. **Eur J Morphol** 1995 Nov;33(4):381–92
Electron microscopic detection of glycoconjugates in the chicken lens. Yao R, et al. **Exp Eye Res** 1996 Dec; 63(6):705–11
Molecular mimicry in the recognition of glycosphingolipids by Gal alpha 3 Gal beta 4 GlcNAc beta–binding Clostridium difficile toxin A, human natural anti alpha–galactosyl IgG and the monoclonal antibody Gal–13: characterization of a binding–active human glycosphingolipid, non–identical with the animal receptor. Teneberg S, et al. **Glycobiology** 1996 Sep;6(6):599–609
Binding specificity of influenza C–virus to variably O–acetylated glycoconjugates and its use for histochemical detection of N–acetyl–9–O–acetylneuraminic acid in mammalian tissues. Harms G, et al. **Glycoconj J** 1996 Aug; 13(4):621–30
Enhancement of glycosylation of cellular glycoconjugates in the squamous carcinoma cell line MDA886Ln by beta–all–trans retinoic acid. Sacks PG, et al. **Glycoconj J** 1996 Oct;13(5):791–6
Lectin–binding glycoconjugates in Paramecium primaurelia: changes with cellular age and starvation. Ramoino P. **Histochem Cell Biol** 1997 Apr;107(4):321–9
Protein glycosylation in the endoplasmic reticulum and the Golgi apparatus and cell type–specificity of cell surface glycoconjugate expression: analysis by the protein A–gold and lectin–gold techniques. Roth J. **Histochem Cell Biol** 1996 Jul;106(1):79–92 (130 ref.)
Ontogeny of sulphated glycoconjugate–producing cells in the rat fundic gland. Yang DH, et al. **Histochem J** 1996 Jan; 28(1):33–43
Modulation of the glycoconjugate expression in the tracheo–bronchial epithelium during sustained hypovitaminosis A. Zschabitz A, et al. **Histol Histopathol** 1996 Apr;11(2):395–405
Alcohol consumption during pregnancy alters glycoconjugates, galactosyltransferase activity and beta–COP proteins in the Golgi apparatus of hepatocytes in developing liver. Segui JM, et al. **Int J Dev Biol** 1996; Suppl 1:285S–286S
Lectin binding patterns of porcine oviduct mucosa and endometrium during the oestrous cycle. Walter I, et al. **J Anat** 1997 Feb;190 (Pt 2):299–307
M–cells in the rabbit tonsil exhibit distinctive glycoconjugates in their apical membranes. Gebert A. **J Histochem Cytochem** 1996 Sep;44(9):1033–42
Glycoconjugate expression defines the origin and differentiation pathway of intestinal M–cells. Gebert A, et al. **J Histochem Cytochem** 1997 Oct;45(10):1341–50
Lectin–histochemical study of O–linked glycoconjugates in dysplastic retina of Norrie disease. Uehara F, et al. **Jpn J Ophthalmol** 1996;40(2):251–4
Lectin–binding glycoconjugates in the subfornical organ of the rat. Ueda T, et al. **Okajimas Folia Anat Jpn** 1997 Mar; 73(6):325–34
Characterization of drusen–associated glycoconjugates. Mullins RF, et al. **Ophthalmology** 1997 Feb;104(2):288–94
Lysosomal metabolism of glycoconjugates. Winchester BG. **Subcell Biochem** 1996;27:191–238 (210 ref.)
[Lectin–histochemical study of early postnatal eyelid epithelium of the rat] Uehara F, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jul;101(7):571–4 (Eng. Abstr.) **(Jpn)**
[Glycohistochemical analysis of apoptotic bodies in eyelid tumor] Uehara F, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jul;101(7):611–6 (Eng. Abstr.) **(Jpn)**

PHARMACOLOGY

Inhibition of human breast cancer metastasis in nude mice by synthetic glycoamines. Glinsky GV, et al. **Cancer Res** 1996 Dec 1;56(23):5319–24
Stimulatory effects of polar glycopeptidolipids of Mycobacterium chelonae on murine haematopoietic stem cells and megakaryocyte progenitors. Vincent–Naulleau S, et al. **Res Immunol** 1997 Feb;148(2):127–36

PHYSIOLOGY

Glycoconjugates facing the outside world. Carlstedt I, et al. **Biochem Soc Trans** 1997 Feb;25(1):214–9 (30 ref.)
Glycoconjugate cross–talk in metastatic cancer cells, leucocytes, parasites and bacteria. Leroy A, et al. **Biochem Soc Trans** 1997 Feb;25(1):228–34 (48 ref.)
Surface carbohydrates involved in the adhesive interactions of metastatic cells. Turner GA, et al. **Biochem Soc Trans** 1997 Feb;25(1):234–41
Role for glycoconjugates in cellular communication in the human reproductive system. Clark GF, et al. **Mol Hum Reprod** 1996 Jul;2(7):513–7 (35 ref.)
Glycosidic residues involved in human sperm–zona pellucida binding in vitro. Miranda PV, et al. **Mol Hum Reprod** 1997 May;3(5):399–404
Lamina–specific connectivity in the brain: regulation by N–cadherin, neurotrophins, and glycoconjugates. Inoue A, et al. **Science** 1997 May 30;276(5317):1428–31
Glycoconjugates in normal and abnormal secondary neurulation. Griffith CM, et al. **Teratology** 1995 Nov; 52(5):286–97

SECRETION

Mucus glycoconjugate secretion in cool and hypertonic solutions. Dwyer TM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1121–5

Vasoactive intestinal peptide–stimulated glycoconjugate secretion from conjunctival goblet cells. Dartt DA, et al. **Exp Eye Res** 1996 Jul;63(1):27–34

GLYCODEOXYCHOLATE see **GLYCODEOXYCHOLIC ACID**

GLYCODEOXYCHOLIC ACID

METABOLISM

In vivo buccal delivery of the peptide drug buserelin with glycodeoxycholate as an absorption enhancer in pigs. Hoogstraate AJ, et al. **Pharm Res** 1996 Aug;13(8):1233–7

GLYCOGEN

ANALYSIS

Aspiration cytology of glycogen–rich squamous cell carcinoma: significance of a tigroid smear background [letter] Dusenbery D. **Acta Cytol** 1997 May–Jun; 41(3):941–2

Cytology of glycogen–rich (clear cell) carcinoma of the breast. A report of two cases. Kern SB, et al. **Acta Cytol** 1997 Mar–Apr;41(2):556–60

A simplified procedure for a rapid and reliable assay of both glycogen and trehalose in whole yeast cells. Parrou JL, et al. **Anal Biochem** 1997 May 15;248(1):186–8

Cellular and subcellular localization of glycogenin in chicken retina. Miozzo MC, et al. **Biochem Mol Biol Int** 1996 Sep; 40(1):173–80

Evaluation of glycogen level in human lung carcinoma tissues by an infrared spectroscopic method. Yano K, et al. **Cancer Lett** 1996 Dec 20;110(1–2):29–34

Stress urinary incontinence in women. II. Abnormalities of glycogenolysis in tissues related to the lower urinary tract. Jóźwik M Jr, et al. **Int Urol Nephrol** 1996;28(4):485–94

The regional distribution of neuronal glycogen in the opossum brain, with special reference to hypothalamic systems. Cavalcante LA, et al. **J Neurocytol** 1996 Aug; 25(8):455–63

Glycogen levels in human term placental disks, umbilical cords, and membranes. Mvumbi L, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug;16(4):597–605

[Contents of glycogen in neutrophils in patients with diabetes] Knapik–Kordecka M, et al. **Pol Arch Med Wewn** 1996 Nov; 96(5):435–41 (Eng. Abstr.) **(Pol)**

ANTAGONISTS & INHIBITORS

Glycogen: its importance in the infectivity of aged juveniles of Steinernema carpocapsae. Patel MN, et al. **Parasitology** 1997 Jun;114 (Pt 6):591–6

BIOSYNTHESIS

Muscle glycogen synthesis in recovery from intense exercise in humans. Bangsbo J, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E416–24

Neural and pancreatic influences on net hepatic glucose uptake and glycogen synthesis. Moore MC, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E215–22

Glucose–6–phosphatase flux and the hepatic glucose balance model [letter; comment] Rognstad R. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1125–7. Comment on: Am J Physiol 1995 Dec;269(6 Pt 1):E1037–43.

Effects and fate of human IGF–binding protein–5 in rat osteoblast cultures. Schmid C, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):E1029–35

Differential effects of lipoic acid stereoisomers on glucose metabolism in insulin–resistant skeletal muscle. Streeper RS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E185–91

Resynthesis of glycogen in skeletal muscle from standardbred trotters after repeated bouts of exercise. Hyyppä S, et al. **Am J Vet Res** 1997 Feb;58(2):162–6

Clostridium botulinum C3 exoenzyme stimulates GLUT4–mediated glucose transport, but not glycogen synthesis, in 3T3–L1 adipocytes—a potential role of rho? van den Berghe N, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):430–9

Glucose–induced glycogenesis in the liver involves the glucose–6–phosphate–dependent dephosphorylation of glycogen synthase. Cadefau J, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):745–50

Insulin action in cultured human myoblasts: contribution of different signalling pathways to regulation of glycogen synthesis. Hurel SJ, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):871–7

Endocrine and nutritional modulation of glucose disposal and storage in muscle. Holness MJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):1–7 (23 ref.)

Altered glycogen synthesis associated with changes in cell volume of rat skeletal muscle myotubes in primary culture. Low SY, et al. **Biochem Soc Trans** 1996 May;24(2):244S

Replenishment of muscle glycogen after high–intensity exercise: a role for intramuscular lactate glyconeogenesis? Palmer TN, et al. **Biochem Soc Trans** 1997 Feb;25(1):25–30 (43 ref.)

Reduced insulin sensitivity of isolated skeletal muscle but enhanced lipogenic capacity of adipocytes in both spontaneously hypertensive and Wistar Kyoto rats. Pearson SL, et al. **Biochem Soc Trans** 1996 May;24(2):234S

Alkylglycosides as artificial primers for glycogen biosynthesis. Meezan E, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 May;43(3):369–81

Progress in the understanding of glycogen biogenesis in rat heart. Tolmasky DS, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jul;42(5):589–98

Chronic activation of protein kinase C in soleus muscles and other tissues of insulin–resistant type II diabetic Goto–Kakizaki (GK), obese/aged, and obese/Zucker rats. A mechanism for inhibiting glycogen synthesis. Avignon A, et al. **Diabetes** 1996 Oct;45(10):1396–404

Incorporation of [3–3H]glucose and 2–[1–14C]deoxyglucose into glycogen in heart and skeletal muscle in vivo: implications for the quantitation of tissue glucose uptake. Virkamäki A, et al. **Diabetes** 1997 Jul;46(7):1106–10

Leptin stimulates glucose transport and glycogen synthesis in C2C12 myotubes: evidence for a P13–kinase mediated effect. Berti L, et al. **Diabetologia** 1997 May;40(5):606–9

The effect of repeated muscle biopsy sampling on ATP and glycogen resynthesis following exercise in man. Constantin–Teodosiu D, et al. **Eur J Appl Physiol** 1996; 73(1–2):186–90

Effects of 3 days of carbohydrate supplementation on muscle glycogen content and utilisation during a 1–h cycling performance. Hawley JA, et al. **Eur J Appl Physiol** 1997; 75(5):407–12

Glycogen biogenesis in rat 1 fibroblasts expressing rabbit muscle glycogenin. Skurat AV, et al. **Eur J Biochem** 1997 Apr 1;245(1):147–55

Leptin inhibits glycogen synthesis in the isolated soleus muscle of obese (ob/ob) mice. Liu YL, et al. **FEBS Lett** 1997 Jul 14;411(2–3):351–5

The influence of starch structure on glycogen resynthesis and subsequent cycling performance. Jozsi AC, et al. **Int J Sports Med** 1996 Jul;17(5):373–8

Characterization of a gene cluster for glycogen biosynthesis and a heterotetrameric ADP–glucose pyrophosphorylase from Bacillus stearothermophilus. Takata H, et al. **J Bacteriol** 1997 Aug;179(15):4689–98

Differential signaling to glycogen synthesis by the intracellular domain of the insulin versus the insulin–like growth factor–1 receptor. Evidence from studies of TrkC–chimeras. Kalloo–Hosein HE, et al. **J Biol Chem** 1997 Sep 26;272(39):24325–32

Initiation of glycogen synthesis in yeast. Requirement of multiple tyrosine residues for function of the self–glucosylating Glg proteins in vivo. Mu J, et al. **J Biol Chem** 1996 Oct 25;271(43):26554–60

Modulation of glycogen synthesis in rat skeletal muscle by changes in cell volume. Low SY, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):299–303

Influence of endurance training on the age–related decline in hepatic glyconeogenesis. Podolin DA, et al. **Mech Ageing Dev** 1994 Jul;75(1):81–93

Increased glucose transport–phosphorylation and muscle glycogen synthesis after exercise training in insulin–resistant subjects. Perseghin G, et al. **N Engl J Med** 1996 Oct 31;335(18):1357–62

Effect of acute acipimox administration on the rates of lipid and glycogen synthesis in cachectic tumor–bearing rats. Obeid OA, et al. **Nutr Cancer** 1997;28(1):100–6

Self–glucosylating initiator proteins and their role in glycogen biosynthesis. Roach PJ, et al. **Prog Nucleic Acid Res Mol Biol** 1997;57:289–316 (60 ref.)

Post–transcriptional regulation of bacterial carbohydrate metabolism: evidence that the gene product CsrA is a global mRNA decay factor. Romeo T. **Res Microbiol** 1996 Jul–Sep;147(6–7):505–12 (25 ref.)

Muscle glycogen resynthesis after short term, high intensity exercise and resistance exercise. Pascoe DD, et al. **Sports Med** 1996 Feb;21(2):98–118 (152 ref.)

BLOOD

The levels of glycosphingolipids, ceramides, sialic acid and glycogen are changed in plasma membranes of rat platelets harvested during recovery from immune–mediated thrombocytopenia. Zdebska E, et al. **Acta Biochim Pol** 1996;43(3):547–55

CHEMISTRY

13C–NMR relaxation in glycogen. Overloop K, et al. **Magn Reson Med** 1996 Jul;36(1):45–51

DEFICIENCY

Glycogen depletion contributes to ischemic preconditioning in the rat heart in vivo. McNulty PH, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2283–9

Postmarathon paradox: insulin resistance in the face of glycogen depletion. Tuominen JA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E336–43

Role of preischemic glycogen depletion in the improvement of postischemic metabolic and contractile recovery of ischemia–preconditioned rat hearts. Soares PR, et al. **Circulation** 1997 Aug 5;96(3):975–83

METABOLISM

Muscle glycogen repletion from endogenous carbon sources during recovery from high intensity exercise in the fasted rat. Nikolovski S, et al. **Acta Physiol Scand** 1996 Aug; 157(4):427–34

Delayed gastric emptying rate as a potential mechanism for lowered glycemia after eating sourdough bread: studies in humans and rats using test products with added organic acids or an organic salt. Liljeberg HG, et al. **Am J Clin Nutr** 1996 Dec;64(6):886–93

Ad libitum food intake in humans after manipulation of glycogen stores. Snitker S, et al. **Am J Clin Nutr** 1997 Apr; 65(4):941–6

Glycogen content of the donor liver and its relation to postreperfusion hepatic energy metabolism. Miki C, et al. **Am J Gastroenterol** 1997 May;92(5):863–6

Direct effects of catecholamines on hepatic glucose production in conscious dog are due to glycogenolysis. Chu CA, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E127–37

Increased lipid oxidation but normal muscle glycogen response to epinephrine in humans with IDDM. Cohen N, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E284–93

Effect of high FFA on glycogenolysis in oxidative rat hindlimb muscles during twitch stimulation. Dyck DJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R766–76

Early glycogenolysis and late glycogenesis in human liver after intravenous administration of galactose. Fried R, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G14–9

More marked stimulation by lithium than insulin of the glycogenic pathway in rat skeletal muscle. Fürnsinn C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E514–20

Measurement of hepatic Ra UDP–glucose in vivo in rats: relation to glycogen deposition and labeling patterns. Hellerstein MK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E155–62

Role of glycogen concentration and epinephrine on glucose uptake in rat epitrochlearis muscle. Jensen J, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):E649–55

Glycogen: a carbohydrate source for GLUT–1 glycosylation during glucose deprivation of 3T3–L1 adipocytes. McMahon RJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E640–5

Autoregulation of myocardial glycogen concentration during intermittent hypoxia. McNulty PH, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R311–9

Interleukin–6 secretion in mice is associated with reduced glucose–6–phosphatase and liver glycogen levels. Metzger S, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):E262–7

Contribution of net hepatic glycogenolysis to glucose production during the early postprandial period. Petersen KF, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E186–91

Role of glycogen–lowering exercise in the change of fat oxidation in response to a high–fat diet. Schrauwen P, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E623–9

Effect of hypoxemia on tissue glycogen content and glycolytic enzyme activities in fetal sheep. Stratford LL, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R103–10

Adenosine exerts a glycogen–sparing action in contracting rat skeletal muscle. Vergauwen L, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E762–8

Glycogen depletion of the intrafusal fibers in a mouse muscle spindle during prolonged swimming. Yoshimura A, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R398–408

Depletion of preischemic glycogen reduces the increase of low molecular weight iron during ischemia. Koster JF, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:74–84

Effect of creatine administration on blood urea level and postexercise glycogen repletion in liver and skeletal muscle in rats. Oöpik V, et al. **Ann Nutr Metab** 1996;40(6):359–63

The role of myocardial glycogen content for the development of isoprenaline–induced myocardial lesions in different inbred strains of rats. Mráz M, et al. **Basic Res Cardiol** 1995 Nov–Dec;90(6):467–74

Loss of glycogen during preconditioning is not a prerequisite for protection of the rabbit heart. Weinbrenner C, et al. **Basic Res Cardiol** 1996 Sep–Oct;91(5):374–81

Hippocampal glycogen metabolism, EEG, and behavior. Uecker A, et al. **Behav Neurosci** 1997 Apr;111(2):283–91

M–glycogenin, the protein moiety of Neurospora crassa proteoglycogen, is an auto– and transglucosylating enzyme. Goldraij A, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):909–14

Fructose–induced increase in intracellular free Mg2+ ion concentration in rat hepatocytes: relation with the enzymes of glycogen metabolism. Gaussin V, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):823–7

The early stimulation of glycolysis by epidermal growth factor in isolated rat hepatocytes is secondary to the glycogenolytic effect. Quintana I, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):889–94

Glycogen levels modulate myocardial glucose uptake. Hopkins JC, et al. **Biochem Soc Trans** 1997 Feb;25(1):104S

Autoregulation of endogenous glucose production in man. Tappy L, et al. **Biochem Soc Trans** 1997 Feb;25(1):11–3 (22 ref.)

Regulation of glycogen utilization, but not glucose utilization, by precontraction glycogen levels in vascular smooth muscle. Hardin CD, et al. **Biochemistry** 1997 Jun 10; 36(23):6954–9

Protein phosphatase type–1 and glycogen bind to a domain in the skeletal muscle regulatory subunit containing conserved hydrophobic sequence motif. Wu J, et al.

Biochemistry 1996 Oct 29;35(43):13858–64
Cell swelling and glycogen metabolism in hepatocytes from fasted rats. Gustafson LA, et al. **Biochim Biophys Acta** 1997 Jan 16;1318(1–2):184–90
Carbohydrate metabolism in human platelets in a low glucose medium under aerobic conditions. Niu X, et al. **Biochim Biophys Acta** 1996 Oct 24;1291(2):97–106
The mechanism of cardioprotection by S–nitrosoglutathione monoethyl ester in rat isolated heart during cardioplegic ischaemic arrest. Konorev EA, et al. **Br J Pharmacol** 1996 Oct;119(3):511–8
Glycogen storage in fetuses of trained pregnant rats. Houghton PE, et al. **Can J Appl Physiol** 1997 Aug; 22(4):384–93
Preexercise sugar feeding does not alter prolonged exercise muscle glycogen or protein catabolism. van Zant RS, et al. **Can J Appl Physiol** 1997 Jun;22(3):268–79
Epinephrine infusion does not enhance net muscle glycogenolysis during prolonged aerobic exercise. Wendling PS, et al. **Can J Appl Physiol** 1996 Aug; 21(4):271–84
Glycogen utilization and ischemic injury in the isolated rat heart. Schaefer S, et al. **Cardiovasc Res** 1997 Jul;35(1):90–8
Glycogen metabolism in the aerobic hypertrophied rat heart. Allard MF, et al. **Circulation** 1997 Jul 15;96(2):676–82
Effects of infused glucose on glycogen metabolism in healthy humans. Tounian P, et al. **Clin Physiol** 1996 Jul; 16(4):403–16
Post–marathon paradox in IDDM: unchanged insulin sensitivity in spite of glycogen depletion. Tuominen JA, et al. **Diabet Med** 1997 Apr;14(4):301–8
The effect of modulating the glycogen–associated regulatory subunit of protein phosphatase–1 on insulin action in rat skeletal muscle cells. Ragolia L, et al. **Endocrinology** 1997 Jun;138(6):2398–404
The effect of glycogen availability on power output and the metabolic response to repeated bouts of maximal, isokinetic exercise in man. Casey A, et al. **Eur J Appl Physiol** 1996; 72(3):249–55
Effect of different types of high carbohydrate diets on glycogen metabolism in liver and skeletal muscle of endurance–trained rats. Garrido G, et al. **Eur J Appl Physiol** 1996;74(1–2):91–9
Effect of muscle glycogen availability on maximal exercise performance. Hargreaves M, et al. **Eur J Appl Physiol** 1997; 75(2):188–92
Effect of exercise on glycogen metabolism in muscles of triiodothyronine–treated rats. Kudelska G, et al. **Eur J Appl Physiol** 1996;72(5–6):496–501
Effects of short–term dietary change from high fat to high carbohydrate diets on the storage and utilization of glycogen and triacylglycerol in untrained rats. Saitoh S, et al. **Eur J Appl Physiol** 1996;74(1–2):13–22
Responses of plasma glutamine, free tryptophan and branched–chain amino acids to prolonged exercise after a regime designed to reduce muscle glycogen. Zanker CL, et al. **Eur J Appl Physiol** 1997;75(6):543–8
Increased cerebral glycogen detected by localized 1H–magnetic resonance spectroscopy in a patient with suspected McArdle's disease. Salvan AM, et al. **Eur Neurol** 1997;37(4):251–3
Interactions between muscle glycogen and blood glucose during exercise. Hargreaves M. **Exerc Sport Sci Rev** 1997; 25:21–39 (112 ref.)
Blunting the rise in body temperature reduces muscle glycogenolysis during exercise in humans. Febbraio MA, et al. **Exp Physiol** 1996 Jul;81(4):685–93
Amino acid sequence of a novel protein phosphatase 1 binding protein (R5) which is related to the liver– and muscle–specific glycogen binding subunits of protein phosphatase 1. Doherty MJ, et al. **FEBS Lett** 1996 Dec 16;399(3):339–43
Progressive decrease in tissue glycogen content in rats with long–term cholestasis. Krahenbuhl L, et al. **Hepatology** 1996 Oct;24(4):902–7
Diet and muscle glycogen concentration in relation to physical performance in Swedish elite ice hockey players. Akermark C, et al. **Int J Sport Nutr** 1996 Sep;6(3):272–84
The role of medium–chain triglycerides in exercise. Berning JR. **Int J Sport Nutr** 1996 Jun;6(2):121–33 (53 ref.)
Utilization of glycogen but not plasma glucose is reduced in individuals with NIDDM during mild–intensity exercise. Colberg SR, et al. **J Appl Physiol** 1996 Nov;81(5):2027–33
A reduced lactate mass explains much of the glycogen sparing associated with training. Crowley MA, et al. **J Appl Physiol** 1996 Jul;81(1):362–7
Persistence of supercompensated muscle glycogen in trained subjects after carbohydrate loading. Goforth HW Jr, et al. **J Appl Physiol** 1997 Jan;82(1):342–7
Role of glucose transport in glycogen supercompensation in reweighted rat skeletal muscle. Henriksen EJ, et al. **J Appl Physiol** 1996 May;80(5):1540–6
Muscle glycogen accumulation after endurance exercise in trained and untrained individuals. Hickner RC, et al. **J Appl Physiol** 1997 Sep;83(3):897–903
Skeletal muscle GLUT–4 and postexercise muscle glycogen storage in humans. McCoy M, et al. **J Appl Physiol** 1996 Feb;80(2):411–5
Enlargement glycogen store in rat liver and muscle by fructose–diet intake and exercise training. Murakami T, et al. **J Appl Physiol** 1997 Mar;82(3):772–5
Effect of endurance exercise training on muscle glycogen supercompensation in rats. Nakatani A, et al. **J Appl Physiol** 1997 Feb;82(2):711–5
Carbohydrate ingestion and single muscle fiber glycogen metabolism during prolonged running in men. Tsintzas OK, et al. **J Appl Physiol** 1996 Aug;81(2):801–9
Muscle glycogen recovery after exercise during glucose and fructose intake monitored by 13C–NMR. Van Den Bergh AJ, et al. **J Appl Physiol** 1996 Oct;81(4):1495–500
Effects of hepatic nerve stimulation on blood glucose and glycogenolysis in rat liver: studies with in vivo microdialysis. Takahashi A, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):181–5
Effects of hepatic glycogen content on hepatic insulin action in humans: alteration in the relative contributions of glycogenolysis and gluconeogenesis to endogenous glucose production. Wise S, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1828–33
Mechanism of impaired insulin–stimulated muscle glucose metabolism in subjects with insulin–dependent diabetes mellitus. Cline GW, et al. **J Clin Invest** 1997 May 1; 99(9):2219–24
The exchange between proglycogen and macroglycogen and the metabolic role of the protein–rich glycogen in rat skeletal muscle. Huang M, et al. **J Clin Invest** 1997 Feb 1;99(3):501–5
Clear cell mammary malignant myoepithelioma with abundant glycogens. Kuwabara H, et al. **J Clin Pathol** 1997 Aug;50(8):700–2
Myocardial glycogen depletion cannot explain the cardioprotective effects of ischemic preconditioning in the rat heart. Asimakis GK. **J Mol Cell Cardiol** 1996 Mar; 28(3):563–70
Differential regulation of glucose and glycogen metabolism in vascular smooth muscle by exogenous substrates. Hardin CD, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1207–16
Does preconditioning act by glycogen depletion in the isolated rat heart? King LM, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2305–21
Effect of adrenalectomy and corticosterone substitution on glucose and glycogen metabolism in rat brain. Plaschke K, et al. **J Neural Transm** 1996;103(1–2):89–100
Glycogen accumulated in the brain following insults is not degraded during a subsequent period of ischemia. Folbergrova J, et al. **J Neurol Sci** 1996 Apr;137(1):7–13
Self–reinnervated cat medial gastrocnemius muscles. II. analysis of the mechanisms and significance of fiber type grouping in reinnervated muscles. Rafuse VF, et al. **J Neurophysiol** 1996 Jan;75(1):282–97
Capsaicin in diet does not affect glycogen contents in the liver and skeletal muscle of rats before and after exercise. Matsuo T, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Jun; 42(3):249–56
Effect of intrathecal morphine on blood glucose, glucagon and tissue glycogen in rat: comparison with the effect of xanthan gum on blood glucose. el Daly ES. **J Pharm Belg** 1996 Jul–Aug;51(4):195–9
Eccentric exercise decreases maximal insulin action in humans: muscle and systemic effects. Asp S, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):891–8
Motor units of juvenile rat lumbrical muscles and fibre type compositions of the glycogen–depleted component. Ridge RM, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):199–210
Mechanisms of activation of muscle branched–chain alpha–keto acid dehydrogenase during exercise in man. van Hall G, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):899–905
The effect of exercise induced glycogen depletion on the lactate, ventilatory and electromyographic thresholds. Glass C, et al. **J Sports Med Phys Fitness** 1997 Mar; 37(1):32–40
Diet composition and the performance of high–intensity exercise. Maughan RJ, et al. **J Sports Sci** 1997 Jun; 15(3):265–75 (67 ref.)
A major locus (RN) affecting muscle glycogen content is located on pig chromosome 15. Mariani P, et al. **Mamm Genome** 1996 Jan;7(1):52–4
Rapid decrease of glycogen concentration in the hearts of senescence–accelerated mice during aging. Kurokawa T, et al. **Mech Ageing Dev** 1997 Sep;97(3):227–36
ATP catabolism and adenosine generation during ischemia in the aging heart. Ramani K, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):113–24
Muscle glycogen storage following prolonged exercise: effect of timing of ingestion of high glycemic index food. Parkin JA, et al. **Med Sci Sports Exerc** 1997 Feb;29(2):220–4
Blood flow, lipid oxidation, and muscle glycogen synthesis after glycogen depletion by strenuous exercise. Tuominen JA, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):874–81
Enzymes of carbohydrate metabolism in young and adult rats fed diets differing in fat and carbohydrate. Brooks SP, et al. **Mol Cell Biochem** 1996 Jun 7;159(1):55–63
In vivo effects of vanadate on hepatic glycogen metabolizing and lipogenic enzymes in insulin–dependent and insulin–resistant diabetic animals. Khandelwal RL, et al. **Mol Cell Biochem** 1995 Dec 6–20;153(1–2):87–94
Crucial role of intracellular effectors on glycogenolysis in the isolated rat heart: potential consequences on the myocardial tolerance to ischemia. Lavanchy N, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:273–82
Heart glycogen content and isoprenaline–induced myocardial lesions. Mráz M, et al. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:145–9
Regulation of oxidative and glycogenolytic ATP synthesis in exercising rat skeletal muscle studied by 31P magnetic resonance spectroscopy. Kemp GJ, et al. **NMR Biomed** 1996 Sep;9(6):261–70
Fuel substrate turnover and oxidation and glycogen sparing with carbohydrate ingestion in non–carbohydrate–loaded cyclists. Bosch AN, et al. **Pflugers Arch** 1996 Oct; 432(6):1003–10
Effect of intermittent feeding with high–fat diet on changes of glycogen, protein and fat content in liver and skeletal muscle in the laboratory mouse. Křížová E, et al. **Physiol Res** 1996;45(5):379–83
Increased glycogen accumulation in transgenic mice overexpressing glycogen synthase in skeletal muscle. Manchester J, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10707–11
High dose IL–2–activated murine natural killer (A–NK) cells accumulate glycogen and granules, lose cytotoxicity, and alter target cell interaction in vitro. Unger ML, et al. **Scand J Immunol** 1997 Jun;45(6):623–36
PTG, a protein phosphatase 1–binding protein with a role in glycogen metabolism. Printen JA, et al. **Science** 1997 Mar 7;275(5305):1475–8
Carbohydrate–loading and exercise performance. An update. Hawley JA, et al. **Sports Med** 1997 Aug;24(2):73–81 (43 ref.)
Liver glycogen in fasted rat livers does not improve outcome of liver transplantation. Sumimoto R, et al. **Transpl Int** 1996;9(6):541–5
Ca2+ uptake coupled to glycogen phosphorolysis in the glycogenolytic–sarcoplasmic reticulum complex from rat skeletal muscle. Nogues M, et al. **Z Naturforsch [C]** 1996 Jul–Aug;51(7–8):591–8

PHYSIOLOGY

Glucose administration before exercise modulates catecholaminergic responses in glycogen–depleted subjects. Gozal D, et al. **J Appl Physiol** 1997 Jan;82(1):248–56
Transient ischemia in the presence of an adenosine deaminase plus a nucleoside transport inhibitor confers protection against contractile depression produced by hydrogen peroxide. Possible role of glycogen. Gan XT, et al. **J Mol Cell Cardiol** 1996 May;28(5):1165–76
Effects of reduced muscle glycogen concentration on force, Ca2+ release and contractile protein function in intact mouse skeletal muscle. Chin ER, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):17–29

THERAPEUTIC USE

Protecting effects of intravenous insoluble glycogen treatment on the experimental necrotizing acute pancreatitis of dogs. Sipka S, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):127–32

GLYCOGEN BRANCHING ENZYME see **1,4–ALPHA–GLUCAN BRANCHING ENZYME**

GLYCOGEN DEBRANCHING ENZYME see **GLYCOGEN DEBRANCHING ENZYME SYSTEM**

GLYCOGEN DEBRANCHING ENZYME DEFICIENCY see **GLYCOGEN STORAGE DISEASE TYPE III**

GLYCOGEN DEBRANCHING ENZYME SYSTEM

see related
GLYCOGEN STORAGE DISEASE TYPE III

Switching the model: a concerted mechanism for GTPases in protein targeting [comment] Millman JS, et al. **Cell** 1997 May 30;89(5):673–6 (14 ref.). Comment on: Cell 1997 May 30;89(5):703–13.

ADVERSE EFFECTS

Hypersensitivity reactions and specific antibodies in workers exposed to industrial enzymes at a biotechnology plant. Biagini RE, et al. **J Appl Toxicol** 1996 Mar–Apr; 16(2):139–45

ANALYSIS

[Nine cases of debrancher deficiency (glycogen storage disease type III) presenting muscle weakness—study on clinicobiochemical analysis] Fukuda T, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):540–3 (Eng. Abstr.) **(Jpn)**

GENETICS

Cloning and sequencing of a cluster of genes encoding novel enzymes of trehalose biosynthesis from thermophilic archaebacterium Sulfolobus acidocaldarius. Maruta K, et al. **Biochim Biophys Acta** 1996 Dec 6;1291(3):177–81
4–alpha–glucanotransferase from the hyperthermophilic archaeon Thermococcus litoralis—enzyme purification and characterization, and gene cloning, sequencing and expression in Escherichia coli. Jeon BS, et al. **Eur J Biochem** 1997 Aug 15;248(1):171–8
Human glycogen debranching enzyme gene (AGL): complete structural organization and characterization of the 5' flanking region. Bao Y, et al. **Genomics** 1996 Dec

1;38(2):155–65
A nonsense mutation due to a single base insertion in the 3'-coding region of glycogen debranching enzyme gene associated with a severe phenotype in a patient with glycogen storage disease type IIIa. Shen J, et al. **Hum Mutat** 1997;9(1):37–40
Polymorphic markers of the glycogen debranching enzyme gene allowing linkage analysis in families with glycogen storage disease type III. Shen J, et al. **J Med Genet** 1997 Jan;34(1):34–8

ISOLATION & PURIFICATION

4-alpha-glucanotransferase from the hyperthermophilic archaeon Thermococcus litoralis--enzyme purification and characterization, and gene cloning, sequencing and expression in Escherichia coli. Jeon BS, et al. **Eur J Biochem** 1997 Aug 15;248(1):171–8

METABOLISM

Expression of catalytically active human multifunctional glycogen-debranching enzyme and lysosomal acid alpha-glucosidase in insect cells. Wu JY, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):755–64

GLYCOGEN PHOSPHORYLASE

see related
GLYCOGEN STORAGE DISEASE TYPE V
GLYCOGEN STORAGE DISEASE TYPE VI
Picture story. Phosphorylation turns it on. Felsenfeld AL. **Nat Struct Biol** 1996 Oct;3(10):841

ANALYSIS

A catalytic assay for the detection of sub-nanomolar glycogen phosphorylase concentrations. Maridakis GA, et al. **Anal Biochem** 1996 Sep 5;240(2):304–6

ANTAGONISTS & INHIBITORS

Antisense inhibition of cytosolic phosphorylase in potato plants (Solanum tuberosum L.) affects tuber sprouting and flower formation with only little impact on carbohydrate metabolism. Duwenig E, et al. **Plant J** 1997 Aug; 12(2):323–33

CHEMISTRY

alpha-1,4-D-glucan phosphorylase of gram-positive Corynebacterium callunae: isolation, biochemical properties and molecular shape of the enzyme from solution X-ray scattering. Weinhäusel A, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):773–83
Control by phosphorylation. Johnson LN, et al. **Curr Opin Struct Biol** 1996 Dec;6(6):762–9 (36 ref.)
Intermediate trapping and laue X-ray diffraction: potential for enzyme mechanism, dynamics, and inhibitor screening. Stoddard BL. **Pharmacol Ther** 1996;70(3):215–56 (95 ref.)
The evolution of an allosteric site in phosphorylase. Rath VL, et al. **Structure** 1996 Apr 15;4(4):463–73

DEFICIENCY

McArdle's disease with non-insulin-dependent diabetes mellitus: the beneficial effects of hyperglycemia and hyperinsulinemia for exercise intolerance. Yamauchi A, et al. **Intern Med** 1996 May;35(5):403–6
Molecular characterization of myophosphorylase deficiency in a group of patients from northern Italy. Martinuzzi A, et al. **J Neurol Sci** 1996 Apr;137(1):14–9

GENETICS

Temporal regulation of the Dictyostelium glycogen phosphorylase 2 gene. Rutherford CL, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):111–25
Angina in McArdle's disease. Nicholls DP, et al. **Heart** 1996 Oct;76(4):372–3
Homozygosity by descent for a rare mutation in the myophosphorylase gene is associated with variable phenotypes in a Druze family with McArdle disease. Iyengar S, et al. **J Med Genet** 1997 May;34(5):391–4

ISOLATION & PURIFICATION

alpha-1,4-D-glucan phosphorylase of gram-positive Corynebacterium callunae: isolation, biochemical properties and molecular shape of the enzyme from solution X-ray scattering. Weinhäusel A, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):773–83

METABOLISM

Interrelationships between metabolism of glycogen phosphorylase and pyridoxal phosphate--implications in McArdle's disease. Beynon RJ, et al. **Adv Food Nutr Res** 1996;40:135–47 (23 ref.)
Regulation of muscle glycogen phosphorylase activity following short-term endurance training. Chesley A, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):E328–35
Regulation of muscle glycogen phosphorylase activity during intense aerobic cycling with elevated FFA. Dyck DJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):E116–25
Insulin regulates liver glycogen synthase and glycogen phosphorylase activity reciprocally in rhesus monkeys. Ortmeyer HK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E133–8
Expression of glycogen phosphorylase isozymes in developing rat lung. Rannels SR, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L389–94
Localization of glycogen phosphorylase activity in liver of fasted normal and adrenalectomized rats and in fasted adrenalectomized rats after injection of dexamethasone. Michaels JE, et al. **Anat Rec** 1997 Jul;248(3):406–12
Regulation of glycogen synthase and phosphorylase during recovery from high-intensity exercise in the rat. Bräu L, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):303–8
Fructose-induced increase in intracellular free Mg2+ ion concentration in rat hepatocytes: relation with the enzymes of glycogen metabolism. Gaussin V, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):823–7
Probing the ionization state of substrate alpha-D-glucopyranosyl phosphate bound to glycogen phosphorylase b. Street IP, et al. **Biochem J** 1995 Jun 15; 308 (Pt 3):1017–23
Enhancement of glucose uptake and utilization in cultured human muscle fibres overexpressing muscle glycogen phosphorylase. Gómez-Foix AM, et al. **Biochem Soc Trans** 1997 Feb;25(1):7–10 (30 ref.)
Glycogen phosphorylase may be activated by AMP-kinase in skeletal muscle. Young ME, et al. **Biochem Soc Trans** 1996 May;24(2):268S
Partial activation of muscle phosphorylase by replacement of serine 14 with acidic residues at the site of regulatory phosphorylation. Buchbinder JL, et al. **Biochemistry** 1997 Jul 1;36(26):8039–44
Phosphonate and alpha-fluorophosphonate analogue probes of the ionization state of pyridoxal 5'-phosphate (PLP) in glycogen phosphorylase. Stirtan WG, et al. **Biochemistry** 1996 Nov 26;35(47):15057–64
Chronic ethanol administration decreases rat pancreatic GP2 content. Apte MV, et al. **Biochim Biophys Acta** 1997 Jul 19;1336(1):89–98
Further syntheses employing phosphorylase. Evers B, et al. **Bioorg Med Chem** 1997 May;5(5):857–63
Glycogen phosphorylase activity in the cerebral cortex of rats during development: effect of homocysteine-induced seizures. Folbergrová J. **Brain Res** 1995 Oct 2; 694(1–2):128–32
Analysis of primer independent phosphorylase activity in potato plants: high levels of activity in sink organs and sucrose-dependent activity in cultured stem explants. Moreno S, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul; 42(5):637–43
Ultrastructural localization of glycogen phosphorylase predominantly in astrocytes of the gerbil brain. Richter K, et al. **Glia** 1996 Aug;17(4):263–73
Calcium-dependent DNA damage and adenosine 3',5'-cyclic monophosphate-independent glycogen phosphorylase activation in an in vitro model of acetaminophen-induced liver injury. Salas VM, et al. **Hepatology** 1997 Jun; 25(6):1432–8
Insulin resistance limits glucose utilization and exercise tolerance in myophosphorylase deficiency and NIDDM. Dorin RI, et al. **J Appl Physiol** 1996 Sep;81(3):1273–8
Role of the active site gate of glycogen phosphorylase in allosteric inhibition and substrate binding. Buchbinder JL, et al. **J Biol Chem** 1996 Sep 13;271(37):22305–9
The glucose-induced switch between glycogen phosphorylase and glycogen synthase in the liver: outlines of a theoretical approach. Cárdenas ML, et al. **J Theor Biol** 1996 Oct 7;182(3):421–6
Glycogen phosphorylase isoenzyme BB in diagnosis of myocardial ischaemic injury and infarction. Krause EG, et al. **Mol Cell Biochem** 1996 Jul-Aug;160–161:289–95 (29 ref.)
The evolution of an allosteric site in phosphorylase. Rath VL, et al. **Structure** 1996 Apr 15;4(4):463–73
Glycogen phosphorylase activity during the cold storage of liver: A limiting effect on glycolytic flux and energy production. Churchill TA, et al. **Transplantation** 1996 Aug 15;62(3):346–52
Ca2+ uptake coupled to glycogen phosphorolysis in the glycogenolytic-sarcoplasmic reticulum complex from rat skeletal muscle. Nogues M, et al. **Z Naturforsch [C]** 1996 Jul-Aug;51(7–8):591–8
[Thermal stability of muscle glycogen phosphorylase b in the presence of specific ligands] Kornilaev BA, et al. **Dokl Akad Nauk** 1997 Jan;352(2):256–8 **(Rus)**

GLYCOGEN STORAGE DISEASE

Liver glycogen synthase deficiency: a rarely diagnosed entity. Gitzelmann R, et al. **Eur J Pediatr** 1996 Jul; 155(7):561–7
Glycogen storage disease: a basic understanding and guide to nursing care. Triomphe TJ. **J Pediatr Nurs** 1997 Aug; 12(4):238–49 (46 ref.)
[Glycogen storage disease] Uehara Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):71–4 (14 ref.) **(Jpn)**

BLOOD

Blood lipids and rheological modifications in glycogen storage disease. Keddad K, et al. **Clin Biochem** 1996 Feb; 29(1):73–8
Decreased erythrocyte deformability in glycogen storage disease. Keddad K, et al. **Thromb Res** 1996 Apr 15; 82(2):159–68

DIAGNOSIS

Muscle pyruvate kinase deficiency: glycogen storage disease or mitochondrial myopathy? Poulton KR, et al. **Funct Neurol** 1997 Jan-Feb;12(1):25–32
Fanconi-Bickel syndrome presenting in neonatal screening for galactosaemia. Müller D, et al. **J Inherit Metab Dis** 1997 Aug;20(4):607–8
Low-rate nerve stimulation during regional ischemia in the diagnosis of muscle glycogenosis. Lomonaco M, et al. **Muscle Nerve** 1996 Dec;19(12):1523–9
Prenatal diagnosis of glycogen storage disease type Ia by single stranded conformation polymorphism (SSCP). Parvari R, et al. **Prenat Diagn** 1996 Sep;16(9):862–5
[A case of glycogenosis in a patient with insulin dependent diabetes] Marangiello R, et al. **Minerva Pediatr** 1996 Jun; 48(6):279–81 (Eng. Abstr.) **(Ita)**
[Hepatic glycogenosis in childhood: clinical and laboratory findings in 20 patients] Ferreira AM, et al. **Arq Gastroenterol** 1995 Jul-Sep;32(3):146–51 (Eng. Abstr.) **(Por)**

GENETICS

Autosomal glycogenosis of liver and muscle due to phosphorylase kinase deficiency is caused by mutations in the phosphorylase kinase beta subunit (PHKB). Burwinkel B, et al. **Hum Mol Genet** 1997 Jul;6(7):1109–15
Mutation hotspots in the PHKA2 gene in X-linked liver glycogenosis due to phosphorylase kinase deficiency with atypical activity in blood cells (XLG2). Burwinkel B, et al. **Hum Mol Genet** 1996 May;5(5):653–8
X-linked liver glycogenosis type II (XLG II) is caused by mutations in PHKA2, the gene encoding the liver alpha subunit of phosphorylase kinase. Hendrickx J, et al. **Hum Mol Genet** 1996 May;5(5):649–52
Mutations in the testis/liver isoform of the phosphorylase kinase gamma subunit (PHKG2) cause autosomal liver glycogenosis in the gsd rat and in humans. Maichele AJ, et al. **Nat Genet** 1996 Nov;14(3):337–40
Metabolic myopathies. Tein I. **Semin Pediatr Neurol** 1996 Jun;3(2):59–98 (357 ref.)
[Different phenotypes of type IXb glycogenosis (phosphorylase-b-kinase deficiency) in adult- and early childhood] Müller P, et al. **Med Klin** 1996 Oct 15; 91(10):667–9 **(Ger)**

METABOLISM

Lactose absorption in patients with glucose 6-phosphate dehydrogenase deficiency with and without favism. Meloni T, et al. **Gut** 1996 Aug;39(2):210–3
Cerebral oxygen and glucose metabolism in glycogen storage disease with normal acid maltase: case report. Katsumi Y, et al. **J Neurol Sci** 1996 Sep 1;140(1–2):46–52
[Myogenic hyperuricemia] Yamasaki T, et al. **Nippon Rinsho** 1996 Dec;54(12):3343–8 (29 ref.) (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Focal glycogenosis of the liver in disorders of ureagenesis: its occurrence and diagnostic significance. Badizadegan K, et al. **Hepatology** 1997 Aug;26(2):365–73

VETERINARY

Severe polysaccharide storage myopathy in Belgian and Percheron draught horses. Valentine BA, et al. **Equine Vet J** 1997 May;29(3):220–5

GLYCOGEN STORAGE DISEASE TYPE I

Oral manifestations and anesthesia considerations in a child with glycogen storage disease type Ib: case report. Katz J, et al. **Pediatr Dent** 1997 Mar-Apr;19(2):123–6

COMPLICATIONS

Crohn's-like colitis in glycogen storage disease Ib: a case report. Franceschini R, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1461–4
Immune deficiency in glycogen storage disease type 1B. Garty BZ, et al. **Isr J Med Sci** 1996 Dec;32(12):1276–81 (40 ref.)
Case report: hepatic adenoma with bone marrow metaplasia in a patient with glycogen storage disease type Ia. Moriura S, et al. **J Gastroenterol Hepatol** 1996 Jun;11(6):556–9
Fractionation of serum bilirubin conjugates in the exploration of the pathogenesis of significant neonatal bilirubinemia associated with glucose-6-phosphate dehydrogenase deficiency [letter; comment] Valaes T. **J Pediatr** 1997 Apr; 130(4):678–9. Comment on: J Pediatr 1996 May;128(5 Pt 1):695–7.
Hepatocellular adenomas in glycogen storage disease type I and III: a series of 43 patients and review of the literature. Labrune P, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar; 24(3):276–9 (25 ref.)
Moyamoya disease in a child with glycogen storage disease type Ia. Goutières F, et al. **Neuropediatrics** 1997 Apr; 28(2):133–4

GLYCOGEN STORAGE DISEASE TYPE I

Pulmonary vascular disease in a child with atrial septal defect of the secundum type and type I glycogen storage disease. Bolz D, et al. **Pediatr Cardiol** 1996 Jul-Aug;17(4):265-7

Acute renal failure complicating liver transplantation in twin sisters with glycogen storage disease type Ia. Reid CJ, et al. **Transplant Proc** 1996 Dec;28(6):3629-31

[Continuous ambulatory peritoneal dialysis ameliorated metabolic disturbances of a patient with chronic renal failure caused by glycogen storage disease type I] Hayakawa H, et al. **Nippon Jinzo Gakkai Shi** 1996 Nov; 38(11):530-4 (Eng. Abstr.) **(Jpn)**

[Liver neoplasms in patients with glycogen storage disease. Diagnostic and therapeutic problems] Rossi R, et al. **Rev Med Chil** 1996 Feb;124(2):225-30 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Prenatal diagnosis in a Chinese family with type Ia glycogen storage disease by PCR-based genetic analysis. Lee WJ, et al. **Prenat Diagn** 1996 Nov;16(11):1027-31

DIET THERAPY

Metabolic control and renal dysfunction in type I glycogen storage disease. Wolfsdorf JI, et al. **J Inherit Metab Dis** 1997 Aug;20(4):559-68

DRUG THERAPY

Cornstarch regimens for nocturnal treatment of young adults with type I glycogen storage disease. Wolfsdorf JI, et al. **Am J Clin Nutr** 1997 May;65(5):1507-11

ENZYMOLOGY

The inheritance of a novel mutation in glycogen storage disease type Ia. Hinds CJ, et al. **Biochem Soc Trans** 1996 May;24(2):232S

A new model for the membrane topology of glucose-6-phosphatase: the enzyme involved in von Gierke disease. Hemrika W, et al. **FEBS Lett** 1997 Jun 16; 409(3):317-9 (20 ref.)

GENETICS

Isolation and nucleotide sequence of canine glucose-6-phosphatase mRNA: identification of mutation in puppies with glycogen storage disease type Ia. Kishnani PS, et al. **Biochem Mol Med** 1997 Aug;61(2):168-77

The inheritance of a novel mutation in glycogen storage disease type Ia. Hinds CJ, et al. **Biochem Soc Trans** 1996 May;24(2):232S

Genetic analysis of the glucose-6-phosphatase mutation of type Ia glycogen storage disease in a Chinese family. Lee WJ, et al. **Clin Genet** 1996 Oct;50(4):206-11

Identification of a point mutation (G727T) in the glucose-6-phosphatase gene in Japanese patients with glycogen storage disease type Ia, and carrier screening in healthy volunteers. Okubo M, et al. **Clin Genet** 1997 Mar; 51(3):179-83

Prenatal diagnosis in a Chinese family with type Ia glycogen storage disease by PCR-based genetic analysis. Lee WJ, et al. **Prenat Diagn** 1996 Nov;16(11):1027-31

IMMUNOLOGY

Immune deficiency in glycogen storage disease type 1B. Garty BZ, et al. **Isr J Med Sci** 1996 Dec;32(12):1276-81 (40 ref.)

METABOLISM

Calcium kinetics in glycogen storage disease type Ia. Goans RE, et al. **Calcif Tissue Int** 1996 Dec;59(6):449-53

Absolute quantification of the hepatic glycogen content in a patient with glycogen storage disease by 13C magnetic resonance spectroscopy. Roser W, et al. **Magn Reson Imaging** 1996;14(10):1217-20

GLYCOGEN STORAGE DISEASE TYPE II

COMPLICATIONS

The adolescent with acute renal failure and left ventricular hypertrophy in the absence of hypertension. Barbullushi M, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):344-5

DIAGNOSIS

Cerebral MR manifestations of Pompe disease in an infant. Lee CC, et al. **AJNR Am J Neuroradiol** 1996 Feb; 17(2):321-2

DIET THERAPY

Dietary treatment in late-onset acid maltase deficiency. Bodamer OA, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S39-42 (15 ref.)

ETHNOLOGY

Glycogenosis type II: a juvenile-specific mutation with an unusual splicing pattern and a shared mutation in African Americans. Adams EM, et al. **Hum Mutat** 1997; 10(2):128-34

GENETICS

Molecular study on the infantile form of Pompe disease in Chinese in Taiwan. Lin CY, et al. **Acta Paediatr Sin** 1996 Mar-Apr;37(2):115-21

Glycogen-storage disease type II (acid maltase deficiency): identification of a novel small deletion (delCC482+483) in French patients. Nicolino M, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):138-41

Homozygous deletion of exon 18 leads to degradation of the lysosomal alpha-glucosidase precursor and to the infantile form of glycogen storage disease type II. Ausems MG, et al. **Clin Genet** 1996 Jun;49(6):325-8

Acid alpha-glucosidase deficiency: identification and expression of a missense mutation (S529V) in a Japanese adult phenotype. Tsunoda H, et al. **Hum Genet** 1996 Apr; 97(4):496-9

A model of mRNA splicing in adult lysosomal storage disease (glycogenosis type II). Raben N, et al. **Hum Mol Genet** 1996 Jul;5(7):995-1000

Glycogenosis type II: a juvenile-specific mutation with an unusual splicing pattern and a shared mutation in African Americans. Adams EM, et al. **Hum Mutat** 1997; 10(2):128-34

A novel acid alpha-glucosidase mutation identified in a Pakistani family with glycogen storage disease type II. Kroos MA, et al. **J Inherit Metab Dis** 1997 Aug;20(4):556-8

METABOLISM

Dietary treatment in late-onset acid maltase deficiency. Bodamer OA, et al. **Eur J Pediatr** 1997 Aug;156 Suppl 1:S39-42 (15 ref.)

PATHOLOGY

Pathological study of Japanese quail embryo with acid alpha-glucosidase deficiency during early development. Miyagawa-Tomita S, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):249-54

Two extremes of the clinical spectrum of glycogen storage disease type II in one family: a matter of genotype. Kroos MA, et al. **Hum Mutat** 1997;9(1):17-22

PHYSIOPATHOLOGY

Prolonged respiratory depression after anesthesia for parathyroidectomy in a patient with juvenile type of acid maltase deficiency [letter] Kotani N, et al. **J Clin Anesth** 1996 Nov;8(7):620

GLYCOGEN STORAGE DISEASE TYPE III

COMPLICATIONS

Obstructive hypertrophic cardiomyopathy in type III glycogen-storage disease. Cuspidi C, et al. **Acta Cardiol** 1997;52(2):117-23

Specific heart muscle disease associated with glycogen storage disease type III: clinical similarity to the dilated phase of hypertrophic cardiomyopathy [letter] Akazawa H, et al. **Eur Heart J** 1997 Mar;18(3):532-3

Type IIIb glycogen storage disease associated with end-stage cirrhosis and hepatocellular carcinoma. The Liver Transplant Group. Haagsma EB, et al. **Hepatology** 1997 Mar;25(3):537-40

Hepatocellular adenomas in glycogen storage disease type I and III: a series of 43 patients and review of the literature. Labrune P, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar; 24(3):276-9 (25 ref.)

DIAGNOSIS

Comparison of the functional significance of left ventricular hypertrophy in hypertrophic cardiomyopathy and glycogenosis type III. Lee PJ, et al. **Am J Cardiol** 1997 Mar 15;79(6):834-8

[Nine cases of debrancher deficiency (glycogen storage disease type III) presenting muscle weakness--study on clinicobiochemical analysis] Fukuda T, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):540-3 (Eng. Abstr.) **(Jpn)**

DIET THERAPY

Symptomatic hyperinsulinism reversed by dietary manipulation in glycogenosis type III. Lee PJ, et al. **J Inherit Metab Dis** 1997 Aug;20(4):612-3

GENETICS

A nonsense mutation due to a single base insertion in the 3'-coding region of glycogen debranching enzyme gene associated with a severe phenotype in a patient with glycogen storage disease type IIIa. Shen J, et al. **Hum Mutat** 1997;9(1):37-40

Polymorphic markers of the glycogen debranching enzyme gene allowing linkage analysis in families with glycogen storage disease type III. Shen J, et al. **J Med Genet** 1997 Jan;34(1):34-8

PHYSIOPATHOLOGY

[Central motor conduction evaluation in glycogenosis type III] Alaejos Fuentes JA, et al. **An Med Interna** 1997 May; 14(5):239-40 (Eng. Abstr.) **(Spa)**

URINE

Abnormal oligosaccharide pattern in glycogen storage disease type III. Galvin-Parton P, et al. **J Inherit Metab Dis** 1996;19(3):383-4

GLYCOGEN STORAGE DISEASE TYPE IV

COMPLICATIONS

A new variant of type IV glycogenosis with primary cardiac manifestation and complete branching enzyme deficiency. In vivo detection by heart muscle biopsy. Nase S, et al. **Eur Heart J** 1995 Nov;16(11):1698-704

DIAGNOSIS

Andersen's syndrome: a distinct periodic paralysis. Sansone V, et al. **Ann Neurol** 1997 Sep;42(3):305-12

PATHOLOGY

Childhood-onset spinocerebellar syndrome associated with massive polyglucosan body deposition. Felice KJ, et al. **Acta Neurol Scand** 1997 Jan;95(1):60-4

[Congenital variant of type IV glycogenosis. Anatomoclinical report of a case] Uro-Coste E, et al. **Ann Pathol** 1996 Dec; 16(6):449-52 (Eng. Abstr.) **(Fre)**

GLYCOGEN STORAGE DISEASE TYPE V

Mcardle's disease. A case report. Dirik E, et al. **Turk J Pediatr** 1996 Jul-Sep;38(3):355-9

BLOOD

Diagnosis of McArdle's disease by molecular genetic analysis of blood. el-Schahawi M, et al. **Neurology** 1996 Aug; 47(2):579-80

COMPLICATIONS

Gouty arthritis and chronic renal insufficiency in a patient with glycogen storage disease of the muscle-energy group [letter] Wang HT, et al. **Aust N Z J Med** 1996 Jun; 26(3):418-9

Angina in McArdle's disease. Nicholls DP, et al. **Heart** 1996 Oct;76(4):372-3

McArdle's disease with non-insulin-dependent diabetes mellitus: the beneficial effects of hyperglycemia and hyperinsulinemia for exercise intolerance. Yamauchi A, et al. **Intern Med** 1996 May;35(5):403-6

[Depressive status, rhabdomyolysis and inflammatory syndrome in a 71-year-old patient] Colin JY, et al. **Rev Med Interne** 1997;18 Suppl 3:303s-304s **(Fre)**

DIAGNOSIS

Increased cerebral glycogen detected by localized 1H-magnetic resonance spectroscopy in a patient with suspected McArdle's disease. Salvan AM, et al. **Eur Neurol** 1997;37(4):251-3

GENETICS

Homozygosity by descent for a rare mutation in the myophosphorylase gene is associated with variable phenotypes in a Druze family with McArdle disease. Iyengar S, et al. **J Med Genet** 1997 May;34(5):391-4

Molecular characterization of myophosphorylase deficiency in a group of patients from northern Italy. Martinuzzi A, et al. **J Neurol Sci** 1996 Apr;137(1):14-9

Diagnosis of McArdle's disease by molecular genetic analysis of blood. el-Schahawi M, et al. **Neurology** 1996 Aug; 47(2):579-80

Sudden infant death syndrome (SIDS) in a family with myophosphorylase deficiency. el-Schahawi M, et al. **Neuromuscul Disord** 1997 Mar;7(2):81-3

A splice-site mutation causing ovine McArdle's disease. Tan P, et al. **Neuromuscul Disord** 1997 Jul;7(5):336-42

METABOLISM

Interrelationships between metabolism of glycogen phosphorylase and pyridoxal phosphate--implications in McArdle's disease. Beynon RJ, et al. **Adv Food Nutr Res** 1996;40:135-47 (23 ref.)

Insulin resistance limits glucose utilization and exercise tolerance in myophosphorylase deficiency and NIDDM. Dorin RI, et al. **J Appl Physiol** 1996 Sep;81(3):1273-8

PATHOLOGY

MR quantification of muscle fatty replacement in McArdle's disease. De Kerviler E, et al. **Magn Reson Imaging** 1996; 14(10):1137-41

Selective atrophy of type 1 muscle fibers in McArdle's disease. Felice KJ, et al. **Neurology** 1996 Aug;47(2):581-3

GLYCOGEN STORAGE DISEASE TYPE VI

COMPLICATIONS

Effect of clonidine on the height of a child with glycogen storage disease type VI: a 13 year follow-up study. Asami T, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):524–8

GLYCOGEN STORAGE DISEASE TYPE VII

COMPLICATIONS

Gouty arthritis and chronic renal insufficiency in a patient with glycogen storage disease of the muscle–energy group [letter] Wang HT, et al. **Aust N Z J Med** 1996 Jun; 26(3):418–9

DIAGNOSIS

Angina for 14 years. Stöllberger C, et al. **Lancet** 1997 May 3;349(9061):1292

ENZYMOLOGY

Partial block of glycolysis in late-onset phosphofructokinase deficiency myopathy. Massa R, et al. **Acta Neuropathol (Berl)** 1996;91(3):322–9

Novel missense mutation (W686C) of the phosphofructokinase-M gene in a Japanese patient with a mild form of glycogenosis VII. Hamaguchi T, et al. **Hum Mutat** 1996;8(3):273–5

Muscle phosphofructokinase deficiency in two generations. Vorgerd M, et al. **J Neurol Sci** 1996 Sep 15;141(1–2):95–9

GENETICS

Novel missense mutation (W686C) of the phosphofructokinase-M gene in a Japanese patient with a mild form of glycogenosis VII. Hamaguchi T, et al. **Hum Mutat** 1996;8(3):273–5

Muscle phosphofructokinase deficiency in two generations. Vorgerd M, et al. **J Neurol Sci** 1996 Sep 15;141(1–2):95–9

METABOLISM

Paradoxically enhanced glucose production during exercise in humans with blocked glycolysis caused by muscle phosphofructokinase deficiency. Vissing J, et al. **Neurology** 1996 Sep;47(3):766–71

PATHOLOGY

Partial block of glycolysis in late-onset phosphofructokinase deficiency myopathy. Massa R, et al. **Acta Neuropathol (Berl)** 1996;91(3):322–9

GLYCOGEN SYNTHASE

ANALYSIS

Glycogen synthase activity is reduced in cultured skeletal muscle cells of non-insulin-dependent diabetes mellitus subjects. Biochemical and molecular mechanisms. Henry RR, et al. **J Clin Invest** 1996 Sep 1;98(5):1231–6

BIOSYNTHESIS

Insulin stimulates protein synthesis of glycogen synthase in rat hepatoma H4 cells associated with acceleration of translation rate. Fujita N, et al. **Endocr J** 1996 Jun; 43(3):313–20

DEFICIENCY

Liver glycogen synthase deficiency: a rarely diagnosed entity. Gitzelmann R, et al. **Eur J Pediatr** 1996 Jul; 155(7):561–7

DRUG EFFECTS

90-kDa S6 kinase is insufficient or not involved in the activation of glycogen synthase induced by insulin. Yasui K, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):317–23

GENETICS

Glycogen synthase polymorphism, insulin resistance and hypertension. Gharavi AG, et al. **Blood Press** 1996 Mar; 5(2):86–90

Cloning, localization and induction of mouse brain glycogen synthase. Pellegri G, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):191–9

Isolation and characterization of glycogen synthase in Dictyostelium discoideum. Williamson BD, et al. **Dev Genet** 1996;19(4):350–64

Cloning and characterization of a glycogen synthase cDNA from human endometrium. Su X, et al. **J Steroid Biochem Mol Biol** 1996 Dec;59(5–6):459–65

Polymorphism of the glycogen synthase gene and non-insulin-dependent diabetes mellitus in the Russian population. Babadjanova G, et al. **Metabolism** 1997 Feb; 46(2):121–2

METABOLISM

More marked stimulation by lithium than insulin of the glycogenic pathway in rat skeletal muscle. Fürnsinn C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E514–20

Insulin regulates liver glycogen synthase and glycogen phosphorylase activity reciprocally in rhesus monkeys. Ortmeyer HK, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E133–8

Differential regulation of glycogen synthase by insulin and glucose in vivo in skeletal muscles of the rat. Sugden MC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E479–87

Regulation of glycogen synthase and phosphorylase during recovery from high-intensity exercise in the rat. Bräu L, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):303–8

Glucose-induced glycogenesis in the liver involves the glucose-6-phosphate-dependent dephosphorylation of glycogen synthase. Cadefau J, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):745–50

Glucose induces the translocation of glycogen synthase to the cell cortex in rat hepatocytes. Fernández-Novell JM, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):227–31

Fructose-induced increase in intracellular free $Mg2+$ ion concentration in rat hepatocytes: relation with the enzymes of glycogen metabolism. Gaussin V, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):823–7

Activation of glycogen synthase in skeletal muscle: effects of insulin in slow- and fast-twitch muscles in vivo. Fryer LG, et al. **Biochem Soc Trans** 1997 Feb;25(1):102S

Bridging the gap between glucose phosphorylation and glycogen synthesis in the liver. Guinovart JJ, et al. **Biochem Soc Trans** 1997 Feb;25(1):157–60 (21 ref.)

Glycogen synthase: activation by insulin and effect of transgenic overexpression in skeletal muscle. Lawrence JC Jr, et al. **Biochem Soc Trans** 1997 Feb;25(1):14–9 (42 ref.)

Isolation and characterization of glycogen synthase in Dictyostelium discoideum. Williamson BD, et al. **Dev Genet** 1996;19(4):350–64

Fetal growth and insulin resistance in adult life: relationship between glycogen synthase activity in adult skeletal muscle and birthweight. Phillips DI, et al. **Diabet Med** 1996 Apr; 13(4):325–9

New insights into the role and mechanism of glycogen synthase activation by insulin. Lawrence JC Jr, et al. **Diabetes** 1997 Apr;46(4):541–7 (63 ref.)

Preserved GLP-I effects on glycogen synthase a activity and glucose metabolism in isolated hepatocytes and skeletal muscle from diabetic rats. Morales M, et al. **Diabetes** 1997 Aug;48(8):1264–9

Regulation of glycogen synthase activity in cultured skeletal muscle cells from subjects with type II diabetes: role of chronic hyperinsulinemia and hyperglycemia. Nikoulina SE, et al. **Diabetes** 1997 Jun;46(6):1017–24

Effect of feeding, fasting, and diabetes on liver glycogen synthase activity, protein, and mRNA in rats. Gannon MC, et al. **Diabetologia** 1997 Jul;40(7):758–63

Differential responses of glycogen synthase to ischaemia and ischaemic contraction in human skeletal muscle. Katz A. **Exp Physiol** 1997 Jan;82(1):203–11

The role of glucose 6-phosphate in the control of glycogen synthase. Villar-Palasí C, et al. **FASEB J** 1997 Jun; 11(7):544–58 (122 ref.)

Insulin activates protein kinase B, inhibits glycogen synthase kinase-3 and activates glycogen synthase by rapamycin-insensitive pathways in skeletal muscle and adipose tissue. Cross DA, et al. **FEBS Lett** 1997 Apr 7; 406(1–2):211–5

Glycogen synthase regulation in hyperinsulinemic/obese progeny of rats fed a high carbohydrate formula in their infancy. Srinivasan M, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):981–9

Glucose-6-P control of glycogen synthase phosphorylation in yeast. Huang D, et al. **J Biol Chem** 1997 Sep 5; 272(36):22495–501

Jun N-terminal kinase mediates activation of skeletal muscle glycogen synthase by insulin in vivo. Moxham CM, et al. **J Biol Chem** 1996 Nov 29;271(48):30765–73

Glucose 6-phosphate produced by glucokinase, but not hexokinase I, promotes the activation of hepatic glycogen synthase. Seoane J, et al. **J Biol Chem** 1996 Sep 27; 271(39):23756–60

The glucose-induced switch between glycogen phosphorylase and glycogen synthase in the liver: outlines of a theoretical approach. Cárdenas ML, et al. **J Theor Biol** 1996 Oct 7;182(3):421–6

Synthesis and application of pyridoxal polyphosphoryl derivatives as active-site probes for nucleotide-binding enzymes. Fukui T, et al. **Methods Enzymol** 1997;280:41–50

Differential effects of constitutively active phosphatidylinositol 3-kinase on glucose transport, glycogen synthase activity, and DNA synthesis in 3T3-L1 adipocytes. Frevert EU, et al. **Mol Cell Biol** 1997 Jan; 17(1):190–8

Glycogen synthase kinase 3 alpha and 3 beta do not colocalize with neurofibrillary tangles. Harr SD, et al. **Neurobiol Aging** 1996 May-Jun;17(3):343–8

Rapid activation of glycogen synthase and protein phosphatase in human skeletal muscle after isometric contraction requires an intact circulation. Katz A, et al. **Pflugers Arch** 1995 Dec;431(2):259–65

Expression and characterization of glycogen synthase kinase-3 mutants and their effect on glycogen synthase activity in intact cells. Eldar-Finkelman H, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10228–33

Increased glycogen accumulation in transgenic mice overexpressing glycogen synthase in skeletal muscle. Manchester J, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10707–11

Enzymatic phosphorylation of muscle glycogen synthase: a mechanism for maintenance of metabolic homeostasis. Shulman RG, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7491–5

Yeast PIG genes: PIG1 encodes a putative type 1 phosphatase subunit that interacts with the yeast glycogen synthase Gsy2p. Cheng C, et al. **Yeast** 1997 Jan;13(1):1–8

GLYCOGEN SYNTHASE KINASES see **CALMODULIN-DEPENDENT PROTEIN KINASES**

GLYCOGEN SYNTHETASE see **GLYCOGEN SYNTHASE**

GLYCOGENOSIS see **GLYCOGEN STORAGE DISEASE**

GLYCOGENOSIS 1 see **GLYCOGEN STORAGE DISEASE TYPE I**

GLYCOGENOSIS 2 see **GLYCOGEN STORAGE DISEASE TYPE II**

GLYCOGENOSIS 3 see **GLYCOGEN STORAGE DISEASE TYPE III**

GLYCOGENOSIS 4 see **GLYCOGEN STORAGE DISEASE TYPE IV**

GLYCOGENOSIS 5 see **GLYCOGEN STORAGE DISEASE TYPE V**

GLYCOGENOSIS 6 see **GLYCOGEN STORAGE DISEASE TYPE VI**

GLYCOGENOSIS 7 see **GLYCOGEN STORAGE DISEASE TYPE VII**

GLYCOHEMOGLOBIN A see **HEMOGLOBIN A, GLYCOSYLATED**

GLYCOL METHACRYLATE GEL see **POLYHYDROXYETHYL METHACRYLATE**

GLYCOLATES

see related
POLYGLYCOLIC ACID

A clinical and histologic evaluation of two medium-depth peels. Glycolic acid versus Jessner's trichloroacetic acid. Tse Y, et al. **Dermatol Surg** 1996 Sep;22(9):781–6

ADMINISTRATION & DOSAGE

Glycolic acid peels for postinflammatory hyperpigmentation in black patients. A comparative study. Burns RL, et al. **Dermatol Surg** 1997 Mar;23(3):171–4; discussion 175

Glycolic acid peels in the treatment of melasma among Asian women. Lim JT, et al. **Dermatol Surg** 1997 Mar;23(3):177–9

Improving the cosmetic appearance of photoaged skin with glycolic acid. Bergfeld W, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):1011–3

Comparative effect of short-term topical tretinoin and glycolic acid on mechanical properties of photodamaged facial skin in HRT-treated menopausal women. Piérard GE, et al. **Maturitas** 1996 Apr;23(3):273–7

ADVERSE EFFECTS

Recurrent oedematous irritant contact dermatitis of the eyelids from indirect application of glycolic acid. Altomare G, et al. **Contact Dermatitis** 1997 May;36(5):265

ANALYSIS

Use of ELISA immunoassay kits as a complement to HPLC analysis of imazapyr and triclopyr in water samples from forest watersheds. Fischer JB, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):611–8

CHEMISTRY

Construction of a vector containing a site-specific DNA double-strand break with 3'-phosphoglycolate termini and analysis of the products of end-joining in CV-1 cells. Bennett RA, et al. **Int J Radiat Biol** 1996 Dec;70(6):623–36

Critical role of human bisphosphoglycerate mutase Cys22 in the phosphatase activator-binding site. Ravel P, et al. **J Biol Chem** 1997 May 30;272(22):14045–50

METABOLISM

Influence of monovalent cations on the binding of a charged and an uncharged ('carbo'-)muscarinic antagonist to muscarinic receptors. Hou X, et al. **Br J Pharmacol** 1996 Mar;117(5):955–61

Phylogenetic positions of Desulfofustis glycolicus gen. nov., sp. nov., and Syntrophobotulus glycolicus gen. nov., sp. nov., two new strict anaerobes growing with glycolic acid. Friedrich M, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):1065–9

GLYCOLATES

PHARMACOKINETICS

Pharmacokinetics of triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid) in the beagle dog and rhesus monkey: perspective on the reduced capacity of dogs to excrete this organic acid relative to the rat, monkey, and human. Timchalk C, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):268–78

PHARMACOLOGY

Mode of action of glycolic acid on human stratum corneum: ultrastructural and functional evaluation of the epidermal barrier. Fartasch M, et al. **Arch Dermatol Res** 1997 Jun; 289(7):404–9

Chloride channel blockers inhibit myogenic tone in rat cerebral arteries. Nelson MT, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):259–64

THERAPEUTIC USE

Interaction between bovine collagen and glycolic acid peeling: a proposal of a new protocol. Sito G, et al. **Aesthetic Plast Surg** 1996 Jul–Aug;20(4):337–41

Cosmetic use of alpha-hydroxy acids. Vidt DG, et al. **Cleve Clin J Med** 1997 Jun;64(6):327–9 (11 ref.)

The effect of glycolic acid on the treatment of acne in Asian skin. Wang CM, et al. **Dermatol Surg** 1997 Jan;23(1):23–9

Treatment of melasma with Jessner's solution versus glycolic acid: a comparison of clinical efficacy and evaluation of the predictive ability of Wood's light examination. Lawrence N, et al. **J Am Acad Dermatol** 1997 Apr; 36(4):589–93

TOXICITY

Evaluation of renal function in rhesus monkeys and comparison to beagle dogs following oral administration of the organic acid triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid). Timchalk C, et al. **Fundam Appl Toxicol** 1997 Mar;36(1):47–53

Identification of proximate toxicant for ethylene glycol developmental toxicity using rat whole embryo culture. Carney EW, et al. **Teratology** 1996 Jan;53(1):38–46

URINE

Extraction of glyceric and glycolic acids from urine with tetrahydrofuran: utility in detection of primary hyperoxaluria. Dietzen DJ, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1315–20

Persistent glycolic aciduria in a healthy child with normal alanine-glyoxylate aminotransferase activity. Craigen WJ. **J Inherit Metab Dis** 1996;19(6):793–4

GLYCOLIC-LACTIC ACID POLYESTER see **POLYGLACTIN 910**

GLYCOLIPIDS

The lytic activity of the bee venom peptide melittin is strongly reduced by the presence of negatively charged phospholipids or chloroplast galactolipids in the membranes of phosphatidylcholine large unilamellar vesicles. Hincha DK, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):162–70

Conformation of sulfoquinovosyldiacylglycerol bound to a magnetically oriented membrane system. Howard KP, et al. **Biophys J** 1996 Nov;71(5):2573–82

Serological reactivity to a synthetic analog of phenolic glycolipid I and early detection of leprosy in an area of low endemicity. González-Abreu E, et al. **Lepr Rev** 1996 Mar;67(1):4–12

Preparation of fluorescence-labeled neoglycolipids for ceramide glycanase assays. Matsuoka K, et al. **Methods Enzymol** 1997;278:519–28 (20 ref.)

ANALYSIS

Detection of glycolipids as biotinylated derivatives using enhanced chemiluminescence. Hernández LE, et al. **Anal Biochem** 1996 Oct 1;241(1):59–66

Recognition of glycoconjugates by Helicobacter pylori: an apparently high-affinity binding of human polyglycosylceramides, a second sialic acid-based specificity. Miller-Podraza H, et al. **Glycoconj J** 1996 Jun; 13(3):453–60

Establishment of a monoclonal antibody directed against Gb3Cer/CD77: a useful immunochemical reagent for a differentiation marker in Burkitt's lymphoma and germinal centre B cells. Miyamoto D, et al. **Glycoconj J** 1997 Apr; 14(3):379–88

Glycolipids and myelin proteins in human oligodendrogliomas. Sung CC, et al. **Glycoconj J** 1996 Jun; 13(3):433–43

Separation and quantitation of glycolipids as penetration modifiers in human skin using high-performance liquid chromatography-mass spectrometry with electrospray ionization. Wolf R, et al. **J Chromatogr A** 1997 Apr 4; 766(1–2):71–5

Separation of major polar lipids in Pecten maximus by high-performance liquid chromatography and subsequent determination of their fatty acids using gas chromatography. Soudant P, et al. **J Chromatogr B Biomed Appl** 1995 Nov 3;673(1):15–26

Quantitative high-performance liquid chromatography analysis of plant phospholipids and glycolipids using light-scattering detection [published erratum appears in Lipids 1996 May;31(5):551] Picchioni GA, et al. **Lipids** 1996 Feb;31(2):217–21

Studies of polymorphic DNA fingerprinting and lipid pattern of Mycobacterium tuberculosis patient isolates in Japan. Chaicumpar K, et al. **Microbiol Immunol** 1997;41(2):107–19

[The phospholipid composition of the liver and the glycolipid spectrum of the brain in rats administered cyanamide] Selevich MI, et al. **Eksp Klin Farmakol** 1996 Nov–Dec; 59(6):38–40 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Menstrual cycle-associated regulation of anabolic and catabolic enzymes causes luteal phase-characteristic expression of sulfatide in human endometrium. Kamei K, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):142–9

A polyketide-synthase-like gene is involved in the synthesis of heterocyst glycolipids in Nostoc punctiforme strain ATCC 29133. Campbell EL, et al. **Arch Microbiol** 1997 Apr;167(4):251–8

Differential expression of gangliosides and galactolipids in fetal human oligodendrocytes and astrocytes in culture. Satoh JI, et al. **Brain Res Dev Brain Res** 1996 May 31; 93(1–2):172–81

Selection and partial characterization of a Pseudomonas aeruginosa mono-rhamnolipid deficient mutant. Wild M, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):279–85

TGF-betas upregulate NCAM and L1 expression in cultured Schwann cells, suppress cyclic AMP-induced expression of O4 and galactocerebroside, and are widely expressed in cells of the Schwann cell lineage in vivo. Stewart HJ, et al. **Glia** 1995 Dec;15(4):419–36

Histo-blood group p: biosynthesis of globoseries glycolipids in EBV-transformed B cell lines. Wiels J, et al. **Glycoconj J** 1996 Aug;13(4):529–35

Roles of Pseudomonas aeruginosa las and rhl quorum-sensing systems in control of elastase and rhamnolipid biosynthesis genes. Pearson JP, et al. **J Bacteriol** 1997 Sep; 179(18):5756–67

Effects of simvastatin on the metabolism of polyunsaturated fatty acids and on glycerolipid, cholesterol, and de novo lipid synthesis in THP-1 cells. Risé P, et al. **J Lipid Res** 1997 Jul;38(7):1299–307

Importance of glycolipid synthesis for butyric acid-induced sensitization to shiga toxin and intracellular sorting of toxin in A431 cells. Sandvig K, et al. **Mol Biol Cell** 1996 Sep; 7(9):1391–404

Expression cloning of the Golgi CMP-sialic acid transporter. Eckhardt M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7572–6

BLOOD

Neutral glycolipids in adult rabbit blood and analysis of their function as specific receptors for micro-organisms. Ondarza MA, et al. **Biomed Chromatogr** 1996 Jan–Feb; 10(1):6–10

Circulating immune complexes in human tuberculosis sera: demonstration of specific antibodies against Mycobacterium tuberculosis glycolipid (DAT, PGLTb1, LOS) antigens in isolated circulating immune complexes. Simonney N, et al. **Eur J Clin Invest** 1997 Feb;27(2):128–34

CHEMICAL SYNTHESIS

Preparation of neoglycolipids with a definite sugar chain moiety from glycoproteins. Ozaki Y, et al. **Anal Biochem** 1996 Oct 15;241(2):151–5

Neoglycophospholipids with alkyl spacers: synthesis via an improved reductive amination and monolayer properties. Sun L, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):567–71

Synthesis of glycolipids: dialkyl N-[N-(4-lactonamidobutyl)succinamoyl]-L-glutamates. Zhang Z, et al. **Carbohydr Res** 1996 Sep 2;290(2):225–32

Synthesis of glycolipids containing disaccharides and two longer alkyl chains and their applications as enzyme modifiers. Zhang Z, et al. **Carbohydr Res** 1996 Oct 4; 292:47–59

Influence of technetium-99m-labeling conditions on physico-chemical and related biological properties of an acylated poly-galactosidic macrophage targeting agent for inflammation imaging. Perin F, et al. **Nucl Med Biol** 1996 Nov;23(8):947–55

CHEMISTRY

Structural identification of a major mitogenic lipid derived from Bacillus subtilis as a glycerophosphoglycolipid. Li Y, et al. **Biochemistry** 1996 Dec 17;35(50):16299–304

Lipid composition of the gram-negative, budding, seawater bacterium Hyphomonas jannaschiana lacking in phospholipids. Batrakov SG, et al. **Biochim Biophys Acta** 1996 Sep 6;1303(1):39–46

Identification of beta-L-gulose as the sugar moiety of the main polar lipid Thermoplasma acidophilum. Swain M, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):56–64

Synthesis and application of neoglycolipids for liposome modification. Murahashi N, et al. **Biol Pharm Bull** 1997 Jun;20(6):704–7

In vivo behavior of liposomes modified with a novel galactosyllipid derivative. Murahashi N, et al. **Biol Pharm Bull** 1996 Mar;19(3):418–23

Structural studies of the major glycolipid from Saccharopolyspora genus. Gamian A, et al. **Carbohydr Res** 1996 Dec 24;296:55–67

Cryo-TEM and NMR studies of a micelle-forming phosphoglucolipid from membranes of Acholeplasma laidlawii A and B. Danino D, et al. **Chem Phys Lipids** 1997 Jan 17;85(1):75–89

Enthalpy is a proper criterion for comparability of monolayer and bilayer studies: isobaric temperature scanning measurements on glycolipid monolayers. Köberl M, et al. **Chem Phys Lipids** 1997 Jan 17;85(1):23–43

Structures of phenolic glycolipids from Mycobacterium kansasii. Watanabe M, et al. **Eur J Biochem** 1997 Aug 15; 248(1):93–8

Determination of the structure of a novel glycolipid from Thermus aquaticus 15004 and demonstration that hydroxy fatty acids are amide linked to glycolipids in Thermus spp. Carreto L, et al. **J Bacteriol** 1996 Nov;178(22):6479–86

Characterization of novel long-chain 1,2-diols in Thermus species and demonstration that Thermus strains contain both glycerol-linked and diol-linked glycolipids. Wait R, et al. **J Bacteriol** 1997 Oct;179(19):6154–62

Differentiation of human promyelocytic leukemia cell line HL60 by microbial extracellular glycolipids. Isoda H, et al. **Lipids** 1997 Mar;32(3):263–71

Molecular species analysis and quantification of the glycosylphosphatidylinositol intermediate glycolipid C from Trypanosoma brucei. Güther ML, et al. **Mol Biochem Parasitol** 1996 May;77(2):137–45

DIAGNOSTIC USE

Macrophage targeting in experimental arthritis [letter; comment] Oyen WJ, et al. **Eur J Nucl Med** 1996 Jun; 23(6):727–9. Comment on: Eur J Nucl Med 1996 Jan;23(1):61–8.

Recycling of ELISA plates for the serological diagnosis of tuberculosis using a Mycobacterium tuberculosis-specific glycolipid antigen. Simonney N, et al. **J Immunol Methods** 1996 Nov 29;199(1):101–5

Serodiagnostic value of ELISA in pulmonary tuberculosis in Turkey where tuberculosis is highly prevalent. Doğan UB, et al. **Respiration** 1997;64(1):73–5

GENETICS

N-Acetylglucosaminyl transferase regulates the expression of the sulfoglucuronyl glycolipids in specific cell types in cerebellum during development. Chou DKH, et al. **J Biol Chem** 1996 Nov 15;271(46):28868–74

IMMUNOLOGY

Phosphocholine-containing glycoglycerolipids (GGPL-I and GGPL-III) are species-specific major immunodeterminants of Mycoplasma fermentans. Matsuda K, et al. **Biochem Biophys Res Commun** 1997 Apr 28; 233(3):644–9

Presence of sulphatide (3'-sulphogalactosylceramide) in pericytes in the choroid layer of the eye: sharing of this glycolipid autoantigen with islets of Langerhans. Buschard K, et al. **Diabetologia** 1996 Jun;39(6):658–66

Enzyme-linked immunosorbent assay (ELISA) using a glycolipid antigen for the serodiagnosis of melioidosis. Phung LV, et al. **FEMS Immunol Med Microbiol** 1995 Dec; 12(3–4):259–64

Antibody response to MfGL-II, a phosphocholine-containing major lipid of Mycoplasma fermentans membranes. Ben-Menachem G, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):363–9

TGF-betas upregulate NCAM and L1 expression in cultured Schwann cells, suppress cyclic AMP-induced expression of O4 and galactocerebroside, and are widely expressed in cells of the Schwann cell lineage in vivo. Stewart HJ, et al. **Glia** 1995 Dec;15(4):419–36

Structural and immunochemical identification of Le(a), Le(b), H type 1, and related glycolipids in small intestinal mucosa of a group O Le(a-b-) nonsecretor. Henry S, et al. **Glycoconj J** 1997 Feb;14(2):209–23

Antibodies to phenolic glycolipid-I and sulfatide-I in leprosy and tuberculosis [letter] Luna-Herrera J, et al. **Int J Lepr Other Mycobact Dis** 1996 Sep;64(3):327–9

The growth arresting effect of human immunoglobulin for intravenous use is mediated by antibodies recognizing membrane glycolipids. Vuist WM, et al. **J Clin Immunol** 1997 Jul;17(4):301–10

Recycling of ELISA plates for the serological diagnosis of tuberculosis using a Mycobacterium tuberculosis-specific glycolipid antigen. Simonney N, et al. **J Immunol Methods** 1996 Nov 29;199(1):101–5

Oral immunization with an anti-idiotypic antibody to the exoglycolipid antigen protects against experimental Chlamydia trachomatis infection. Whittum-Hudson JA, et al. **Nat Med** 1996 Oct;2(10):1116–21

Neutral glycolipids of Schistosoma mansoni as feasible antigens in the detection of schistosomiasis. Dennis RD, et al. **Parasitology** 1996 Mar;112 (Pt 3):295–307

Clinical usefulness of rapid serodiagnosis in pulmonary tuberculosis by ELISA with glycolipidic antigens extracted from Mycobacterium tuberculosis and with whole BCG suspension. Niculescu D, et al. **Roum Arch Microbiol Immunol** 1995 Oct–Dec;54(4):277–84

Structural requirements for glycolipid antigen recognition by CD1b-restricted T cells. Moody DB, et al. **Science** 1997

Oct 10;278(5336):283–6
The Epstein–Barr virus (EBV) alters the B cell glycolipid which is recognized by the human monoclonal antibody to i–blood group antigen. Nagatsuka Y, et al. **Virus Res** 1996 Jul;43(1):57–68
[Distribution of antigenic glycolipids among Mycobacterium tuberculosis strains and their contribution to virulence] Fujiwara N. **Kekkaku** 1997 Apr;72(4):193–205 (Eng. Abstr.) **(Jpn)**
[Antiglycolipid antibody in inflammatory neuropathy] Kusunoki S. **Rinsho Shinkeigaku** 1995 Dec;35(12):1370–2 (6 ref.) (Eng. Abstr.) **(Jpn)**
[Structure and antigenicity of the major glycolipid from opportunistic bacteria Rhodococcus equi] Szponar B, et al. **Postepy Hig Med Dosw** 1996;50(5):533–5 (Eng. Abstr.) **(Pol)**
[Antibody titers to glycolipid chemotype Re and endotoxin binding by leukocytes in suppurative meningitis] Iushchuk ND, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov–Dec;(6):50–3 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Membrane lipids of Rhodopseudomonas viridis. Linscheid M, et al. **Biochim Biophys Acta** 1997 Aug 16; 1347(2–3):151–63
Semi–preparative isolation of plant sulfoquinovosyldiacylglycerols by solid phase extraction and HPLC procedures. Norman HA, et al. **J Lipid Res** 1996 Jun;37(6):1372–6
Isolation and structure determination of sulfonoquinovosyl dipalmitoyl glyceride, a P–selectin receptor inhibitor from the alga Dictyochloris fragrans. Golik J, et al. **J Nat Prod** 1997 Apr;60(4):387–9

METABOLISM

Effect of ethanol on glycerolipid and fatty acid metabolism in Hep G2 human–hepatoma cells. Angeletti C, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):57–69
A glycolytic enzyme binding domain on tubulin. Volker KW, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):237–43
Interaction of plant lipids with 14 kDa phospholipase A2 enzymes. Vishwanath BS, et al. **Biochem J** 1996 Nov 15; 320 (Pt 1):93–9
Modification of the water oxidizing complex in leaves of the dgd1 mutant of Arabidopsis thaliana deficient in the galactolipid digalactosyldiacylglycerol. Reifarth F, et al. **Biochemistry** 1997 Sep 30;36(39):11769–76
Biodistribution of liposomes containing synthetic galactose–terminated diacylglyceryl–poly(ethyleneglycol)s. Shimada K, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):329–41
Characterization of the affinity of the G(M2) activator protein for glycolipids by a fluorescence dequenching assay. Smiljanic–Georgijev N, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):192–202
Two distinct binding sites for globotriaosyl ceramide on verotoxins: identification by molecular modelling and confirmation using deoxy analogues and a new glycolipid receptor for all verotoxins [published erratum appears in Chem Biol 1996 Jan;3(1):503] Nyholm PG, et al. **Chem Biol** 1996 Apr;3(4):263–75
HNK–1 carbohydrate–mediated cell adhesion to laminin–1 is different from heparin–mediated and sulfatide–mediated cell adhesion. Hall H, et al. **Eur J Biochem** 1997 May 15; 246(1):233–42
Gal alpha 4Gal–binding antibodies: specificity and use for the mapping of glycolipids of Burkitt lymphoma and other human tumors. Lanne B, et al. **Glycobiology** 1996 Jun; 6(4):423–31
Heat stress induces a glycosylation of membrane sterol in myxoamoebae of a true slime mold, Physarum polycephalum. Murakami–Murofushi K, et al. **J Biol Chem** 1997 Jan 3;272(1):486–9
Recombinant expression of the MAL proteolipid, a component of glycolipid–enriched membrane microdomains, induces the formation of vesicular structures in insect cells. Puertollano R, et al. **J Biol Chem** 1997 Jul 18;272(29):18311–5
The influence of serum for spreading of tumor cells on synthetic glycolipid films. Sato T, et al. **J Biomater Sci Polym Ed** 1995;7(7):587–99
Dynamic measurement of the pH of the Golgi complex in living cells using retrograde transport of the verotoxin receptor. Kim JH, et al. **J Cell Biol** 1996 Sep;134(6):1387–99
Exclusion of CD45 inhibits activity of p56lck associated with glycolipid–enriched membrane domains. Rodgers W, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1515–23
Receptor affinity purification of a lipid–binding adhesin from Haemophilus influenzae. Busse J, et al. **J Infect Dis** 1997 Jan;175(1):77–83
Influence of host cell infiltration on the glycolipid content of mouse brain tumors. Seyfried TN, et al. **J Neurochem** 1996 May;66(5):2026–33
Activities of glycolipid glycosyltransferases and sialidases during the early development of Xenopus laevis. Gornati R, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):117–24
Phenylalanine 30 plays an important role in receptor binding of verotoxin–1. Clark C, et al. **Mol Microbiol** 1996 Feb; 19(4):891–9
Phytoene synthase from Narcissus pseudonarcissus: functional expression, galactolipid requirement, topological distribution in chromoplasts and induction during flowering. Schledz M, et al. **Plant J** 1996 Nov;10(5):781–92
Mechanism of proton permeation through chloroplast lipid membranes. Fuks B, et al. **Plant Physiol** 1996 Oct; 112(2):759–66
Lipochitooligosaccharide–induced tobacco cells release a peptide as mediator of the glycolipid signal. John M, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10178–82
[The binding activity of diglucosyl diacylglyceride derived from membranes of Acholeplasma laidlawii PG8 to lymphoid cells] Ono S. **Kansenshogaku Zasshi** 1997 Jun; 71(6):534–9 (Eng. Abstr.) **(Jpn)**
[Brain glycolipids in rats after disulfiram administration] Selevich MI, et al. **Eksp Klin Farmakol** 1996 Sep–Oct; 59(5):47–8 (Eng. Abstr.) **(Rus)**
[Changes in glycolipid level in the brain of rats with different resistance to hypoxia during acclimation to cold] Kozulina LE, et al. **Vopr Med Khim** 1996 Apr–Jun;42(2):141–3 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Influence of technetium–99m–labeling conditions on physico–chemical and related biological properties of an acylated poly–galactosidic macrophage targeting agent for inflammation imaging. Perin F, et al. **Nucl Med Biol** 1996 Nov;23(8):947–55
Evaluation of possible interference of anti–inflammatory drugs upon scintigraphic imaging with macrophage targeting 99mTc–J001X: effects of methylprednisolone, dexamethasone, indomethacin and methotrexate. Perin F, et al. **Nucl Med Biol** 1994 Nov;21(8):1093–100

PHARMACOLOGY

Rhamnolipid (biosurfactant) effects on cell aggregation and biodegradation of residual hexadecane under saturated flow conditions. Herman DC, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3622–7
Scavenging of reactive oxygen species by a glycolipid fraction of Mycobacterium avium serovar 2. Scherer TA, et al. **Free Radic Biol Med** 1997;22(3):561–5
A sulphonoglycolipid from the fern Polypodium decumanum and its effect on the platelet activating–factor receptor in human neutrophils. Vasänge M, et al. **J Pharm Pharmacol** 1997 May;49(5):562–6
Differentiation of human promyelocytic leukemia cell line HL60 by microbial extracellular glycolipids. Isoda H, et al. **Lipids** 1997 Mar;32(3):263–71
Macrophage inhibitory factor–A3 derived from Mycobacterium avium serovar 2 inhibits candidacidal activity of murine peritoneal macrophages. Hines ME 2nd, et al. **Vet Microbiol** 1996 Dec;53(3–4):295–302

PHYSIOLOGY

Caveolae, DIGs, and the dynamics of sphingolipid–cholesterol microdomains. Harder T, et al. **Curr Opin Cell Biol** 1997 Aug;9(4):534–42 (75 ref.)

TOXICITY

In vivo anti–tumour effect of 3'–sulphonoquinovosyl 1'–monoacylglyceride isolated from sea urchin (Strongylocentrotus intermedius) intestine. Sahara H, et al. **Br J Cancer** 1997;75(3):324–32
Relationship between induction of macrophage chemotactic factors and formation of granulomas caused by mycoloyl glycolipids from Rhodococcus ruber (Nocardia rubra). Matsunaga I, et al. **J Biochem (Tokyo)** 1996 Sep; 120(3):663–70

GLYCOLS

Hybrid biomaterials based on the interaction of polyurethane oligomers with porcine pericardium. Loke WK, et al. **Biomaterials** 1996 Nov;17(22):2163–72

ADVERSE EFFECTS

Congenital malformation and maternal occupational exposure to glycol ethers. Occupational Exposure and Congenital Malformations Working Group [see comments] Cordier S, et al. **Epidemiology** 1997 Jul;8(4):355–63. Comment in: Epidemiology 1997 Jul;8(4):340–1.

CHEMISTRY

Characterization of novel long–chain 1,2–diols in Thermus species and demonstration that Thermus strains contain both glycerol–linked and diol–linked glycolipids. Wait R, et al. **J Bacteriol** 1997 Oct;179(19):6154–62
Determination of the diol content of chromatographic supports by capillary electrophoresis. Chattopadhyay A, et al. **J Chromatogr A** 1997 Jan 17;758(2):255–61
15 beta–hydroxysteroids (Part III). Steroids of the human perinatal period: the synthesis of 3 beta, 15 beta, 17 alpha–trihydroxy–5–pregnen–20–one. Application of n–butyl boronic acid protection of a 17,20–glycol. Joannou GE, et al. **Steroids** 1996 Jan;61(1):11–7

METABOLISM

Haemoglobin adducts of epoxybutanediol from exposure to 1,3–butadiene or butadiene epoxides. Pérez HL, et al. **Chem Biol Interact** 1997 Aug 1;105(3):181–98
Oxidation of 3–butene–1,2–diol by alcohol dehydrogenase. Kemper RA, et al. **Chem Res Toxicol** 1996 Oct–Nov; 9(7):1127–34
Epoxide hydrolase–dependent metabolism of butadiene monoxide to 3–butene–1,2–diol in mouse, rat, and human liver. Krause RJ, et al. **Drug Metab Dispos** 1997 Aug; 25(8):1013–5

PHARMACOLOGY

Effect of the crystallizing agent 2–methyl–2,4–pentanediol on the structure of adenine tract DNA in solution. Ganunis RM, et al. **Biochemistry** 1996 Oct 29;35(43):13729–32
The site of general anaesthesia and cytochrome P450 oxygenases: similarities defined by straight chain and cyclic alcohols. LaBella FS, et al. **Br J Pharmacol** 1997 Mar; 120(6):1158–64

TOXICITY

Germ cell mutagenicity of three metabolites of 1,3–butadiene in the rat: induction of spermatid micronuclei by butadiene mono–, di–, and diolepoxides in vivo. Lähdetie J, et al. **Environ Mol Mutagen** 1997;29(3):230–9
Micronuclei are induced in rat spermatids in vitro by 1,2,3,4–diepoxybutane but not by 1,2–epoxy–3–butene and 1,2–dihydroxy–3,4–epoxybutane. Sjöblom T, et al. **Mutagenesis** 1996 Sep;11(5):525–8
Induction of sister chromatid exchange by 3,4–expoxybutane–1,2–diol in cultured human lymphocytes of different GSTT1 and GSTM1 genotypes [published erratum appears in Mutat Res 1997 Apr 24;390(1–2):199] Bernardini S, et al. **Mutat Res** 1996 Dec 12;361(2–3):121–7

GLYCOLYSIS

Partial block of glycolysis in late–onset phosphofructokinase deficiency myopathy. Massa R, et al. **Acta Neuropathol (Berl)** 1996;91(3):322–9
Activation of glycolysis in human muscle in vivo. Conley KE, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C306–15
Glycolysis is a source of pyruvate for transamination of glutamine amino nitrogen in jejunal epithelial cells. Cremin JD Jr, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):G575–88
Effect of repetitive stunning on myocardial metabolism in pig hearts. Hacker TA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1395–402
Control of glycolysis in vertebrate skeletal muscle during exercise. Krause U, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R821–9
Recovery of glycolysis and oxidative metabolism during postischemic reperfusion of hypertrophied rat hearts. Schönekess BO, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H798–805
Effect of hypoxemia on tissue glycogen content and glycolytic enzyme activities in fetal sheep. Stratford LL, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R103–10
Gliomas are driven by glycolysis: putative roles of hexokinase, oxidative phosphorylation and mitochondrial ultrastructure. Oudard S, et al. **Anticancer Res** 1997 May–Jun;17(3C):1903–11
Identification of ATP–dependent phosphofructokinase as a regulatory step in the glycolytic pathway of the actinomycete Streptomyces coelicolor A3(2). Alves AM, et al. **Appl Environ Microbiol** 1997 Mar;63(3):956–61
Energy production in Entamoeba histolytica: new perspectives in rational drug design. Saavedra–Lira E, et al. **Arch Med Res** 1996 Autumn;27(3):257–64 (62 ref.)
Comparative analysis of Embden–Meyerhof and Entner–Doudoroff glycolytic pathways in hyperthermophilic archaea and the bacterium Thermotoga. Selig M, et al. **Arch Microbiol** 1997 Apr;167(4):217–32
Effect of oncogene transformation of rat embryo cells on cellular oxygen consumption and glycolysis. Biaglow JE, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):739–42
Irreversible metabolic transitions: the glucose 6–phosphate metabolism in yeast cell–free extracts. Coevoet MA, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):162–6
Rapid formation of advanced glycation end products by intermediate metabolites of glycolytic pathway and polyol pathway. Hamada Y, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):539–43
Contribution of the glycolytic pathway to enzymatic metmyoglobin reduction in myocytes. Arihara K, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):325–31
Energy metabolism and glycolysis in human placental trophoblast cells during differentiation. Bax BE, et al. **Biochim Biophys Acta** 1997 Apr 11;1319(2–3):283–92
Control analysis of glycolytic oscillations. Bier M, et al. **Biophys Chem** 1996 Nov 29;62(1–3):15–24
Quasiperiodicity route to chaos in a biochemical system. Martinez de la Fuente I, et al. **Biophys J** 1996 Nov; 71(5):2375–9
High glycolysis in gliomas despite low hexokinase transcription and activity correlated to chromosome 10 loss. Oudard S, et al. **Br J Cancer** 1996 Sep;74(6):839–45
Oscillations in oxygen consumption by permeabilized clonal pancreatic beta–cells (HIT) incubated in an oscillatory glycolyzing muscle extract: roles of free Ca2+, substrates, and the ATP/ADP ratio. Civelek VN, et al. **Diabetes** 1997 Jan;46(1):51–6
Are metabolic oscillations responsible for normal oscillatory

insulin secretion? Tornheim K. **Diabetes** 1997 Sep; 46(9):1375–80

Two signaling pathways, from the upper glycolytic flux and from the mitochondria, converge to potentiate insulin release. Asanuma N, et al. **Endocrinology** 1997 Feb; 138(2):751–5

Theoretical approaches to the evolutionary optimization of glycolysis: thermodynamic and kinetic constraints. Heinrich R, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):191–201

Theoretical approaches to the evolutionary optimization of glycolysis—chemical analysis. Meléndez-Hevia E, et al. **Eur J Biochem** 1997 Mar 1;244(2):527–43

Ultrastructural and biochemical analysis of the relationship of Crithidia deanei with its endosymbiont. Motta MC, et al. **Eur J Cell Biol** 1997 Apr;72(4):370–7

Glycolytic enzyme activities in Cryptosporidium parvum oocysts. Entrala E, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):51–7

Ascorbate as a substrate for glycolysis or gluconeogenesis: evidence for an interorgan ascorbate cycle. Braun L, et al. **Free Radic Biol Med** 1997;23(5):804–8

Fatty acid synthesis by isolated leucoplasts from developing Brassica seeds: role of glycolytic intermediates as the source of carbon and energy. Gupta R, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):478–83

McArdle's disease with non-insulin-dependent diabetes mellitus: the beneficial effects of hyperglycemia and hyperinsulinemia for exercise intolerance. Yamauchi A, et al. **Intern Med** 1996 May;35(5):403–6

Glycolysis in bloodstream form Trypanosoma brucei can be understood in terms of the kinetics of the glycolytic enzymes. Bakker BM, et al. **J Biol Chem** 1997 Feb 7; 272(6):3207–15

Induction by glucose of genes coding for glycolytic enzymes in a pancreatic beta-cell line (INS-1). Roche E, et al. **J Biol Chem** 1997 Jan 31;272(5):3091–8

Contrasting strategies for anoxic brain survival—glycolysis up or down. Lutz PL, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):411–9 (59 ref.)

Chemical versus isotopic equilibrium and the metabolic fate of glycolytic end products in the heart. Damico LA, et al. **J Mol Cell Cardiol** 1996 May;28(5):989–99

Glucose consumption and lactate production of human placental tissue under different conditions of in vitro incubation. Malek A, et al. **J Soc Gynecol Investig** 1996 May–Jun;3(3):113–20

Rapid uptake and phosphorylation of D-mannose, and limited D-mannose 6-phosphate isomerization in the glycolytic pathway of bloodstream forms of Trypanosoma brucei gambiense. Hara T, et al. **Kurume Med J** 1997; 44(2):105–13

Glycolytic ATP production estimated from 31P magnetic resonance spectroscopy measurements during ischemic exercise in vivo. Wackerhage H, et al. **MAGMA** 1996 Sep–Dec;4(3–4):151–5

Regulation of endoplasmic reticulum-Ca-ATPase by glycolysis in eukaryotic cells. Martínez-Zaguilán R, et al. **Miner Electrolyte Metab** 1996;22(5–6):318–35 (157 ref.)

Relation between energy metabolism, glycolysis, noradrenaline release and duration of ischemia. Cargnoni A, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:187–94

Relationships between enzymatic flux capacities and metabolic flux rates: nonequilibrium reactions in muscle glycolysis. Suarez RK, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7065–9 (79 ref.)

Phylogenetic analysis of glycolytic enzyme expression [see comments] Pierce VA, et al. **Science** 1997 Apr 11; 276(5310):256–9. Comment in: Science 1997 Apr 11;276(5310):218–9.

The purpose of glycolysis [letter; comment] Sparks S. **Science** 1997 Jul 25;277(5325):459–60. Comment on: Science 1997 Apr 11;276(5310):196–8.

[Accumulation of hydrolysis products as a possible stimulus for training-induced increase of succinate dehydrogenase activity in skeletal muscles] Shenkman BS, et al. **Dokl Akad Nauk** 1996 Jul;349(2):269–71 **(Rus)**

[The determination of the ureolytic and glycolytic activities of human oral fluid] Khramov VA, et al. **Stomatologiia (Mosk)** 1996;75(3):7–9 (Eng. Abstr.) **(Rus)**

[Relation between the energy state and permeability of cardiomyocyte sarcolemma during "calcium paradox" and activity of glycolysis] Alabovskiĭ VV, et al. **Vopr Med Khim** 1997 Jan–Feb;43(1):29–33 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Antecedent ischemia reverses effects of adenosine on glycolysis and mechanical function of working hearts. Finegan BA, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2116–25

Selective inhibition of mitochondrial respiration and glycolysis in human leukaemic leucocytes by methylglyoxal. Biswas S, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):343–8

The early stimulation of glycolysis by epidermal growth factor in isolated rat hepatocytes is secondary to the glycogenolytic effect. Quintana I, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):889–94

Serotonin decreases cytoskeletal and cytosolic glycolytic enzymes and the levels of ATP and glucose 1,6-bisphosphate in skin, which is prevented by the calmodulin antagonists thioridazine and clotrimazole. Ashkenazy-Shahar M, et al. **Biochem Mol Med** 1997 Apr; 60(2):187–93

Acceleration of glycolysis in erythrocytes by the antidiabetic agent M16209. Hashimoto K, et al. **Biol Pharm Bull** 1996 Jun;19(6):809–13

Limitation of glycolysis by hexokinase in rat brain synaptosomes during intense ion pumping. Erecińska M, et al. **Brain Res** 1996 Jul 8;726(1–2):153–9

Effects of quercetin on rat testis aerobic glycolysis. Trejo R, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1605–15

Quantitation of metabolic and radiobiological effects of 6-aminonicotinamide in RIF-1 tumor cells in vitro. Street JC, et al. **Cancer Res** 1997 Sep 15;57(18):3956–62

Effect of low levels of fluoride on proton excretion and intracellular pH in glycolysing streptococcal cells under strictly anaerobic conditions. Guha-Chowdhury N, et al. **Caries Res** 1997;31(5):373–8

Excitatory amino acids stimulate aerobic glycolysis in astrocytes via an activation of the Na+/K+ ATPase. Pellerin L, et al. **Dev Neurosci** 1996;18(5–6):336–42

Interleukin (IL)-1beta increases glucose uptake and induces glycolysis in aerobically cultured rat ovarian cells: evidence that IL-1beta may mediate the gonadotropin-induced midcycle metabolic shift. Ben-Shlomo I, et al. **Endocrinology** 1997 Jul;138(7):2680–8

4-Hydroxy-2-nonenal hardly affects glycolysis. Miwa I, et al. **Free Radic Biol Med** 1997;23(4):610–5

Effect of high-protein diet on glycolytic processes in skeletal muscles of exercising rats. Łuczak-Szczurek A, et al. **J Physiol Pharmacol** 1997 Mar;48(1):119–26

Influence of vanadate on glycolysis, intracellular sodium, and pH in perfused rat hearts. Geraldes CF, et al. **Mol Cell Biochem** 1997 May;170(1–2):53–63

The protective action of tetrodotoxin and (+/-)-kavain on anaerobic glycolysis, ATP content and intracellular Na+ and Ca2+ of anoxic brain vesicles. Gleitz J, et al. **Neuropharmacology** 1996;35(12):1743–52

Effect of methionine on glycolysis in tumor cells: in vivo and in vitro NMR studies. Collet V, et al. **NMR Biomed** 1996 Apr;9(2):47–52

Intracellular pathways of insulin-mediated glucose uptake before and after puberty in conscious rats. Raghavan S, et al. **Pediatr Res** 1997 Mar;41(3):340–5

Enhancement of glycolysis and CO2 formation from glycerol by hydroxyl radical scavengers in rat hepatocytes. Gerber E, et al. **Res Commun Mol Pathol Pharmacol** 1996 Oct; 94(1):63–71

Glycogenolysis stimulation by non-steroidal anti-inflammatories in the perfused rat liver is not accompanied by Ca2+ release. Nascimento EA, et al. **Res Commun Mol Pathol Pharmacol** 1997 May; 96(2):193–201

[Effect of adenosine on glycolysis of cultured cardiac myocytes of newborn rats] Díaz A, et al. **Arch Inst Cardiol Mex** 1996 May–Jun;66(3):202–9 (Eng. Abstr.) **(Spa)**

GENETICS

Mechanisms by which carbohydrates regulate expression of genes for glycolytic and lipogenic enzymes. Girard J, et al. **Annu Rev Nutr** 1997;17:325–52 (105 ref.)

A revised endosymbiont hypothesis to explain the bacterial origin of amebic glycolytic and fermentation enzymes. Rosenthal B, et al. **Arch Med Res** 1997;28 Spec No:71–2

Signalling pathways leading to transcriptional regulation of genes involved in the activation of glycolysis in yeast. Gonçalves PM, et al. **Mol Microbiol** 1997 Aug;25(3):483–93

[Regulation of the expression of hepatic genes coding the enzymes of glycolysis and gluconeogenesis] Girard J. **Journ Annu Diabetol Hotel Dieu** 1996;:37–53 (91 ref.) **(Fre)**

PHYSIOLOGY

Development, glycolytic activity, and viability of preimplantation mouse embryos subjected to different periods of glucose starvation. Leppens-Luisier G, et al. **Biol Reprod** 1997 Mar;56(3):589–96

Metabolic events with spontaneous malignant hyperthermia crisis in an anaesthetized pig. Kozak-Ribbens G, et al. **Can J Anaesth** 1997 Jul;44(7):757–64

Calcium regulation of glycolysis, glucose oxidation, and fatty acid oxidation in the aerobic and ischemic heart. Schönekess BO, et al. **Can J Physiol Pharmacol** 1995 Nov; 73(11):1632–40

Glycolytic pathway, redox state of NAD(P)-couples and energy metabolism in lens in galactose-fed rats: effect of an aldose reductase inhibitor. Obrosova I, et al. **Curr Eye Res** 1997 Jan;16(1):34–43

Effect of perinatal asphyxia on systemic and intracerebral pH and glycolysis metabolism in the rat. Engidawork E, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):390–6

Aerobic glycolysis by proliferating cells: a protective strategy against reactive oxygen species. Brand KA, et al. **FASEB J** 1997 Apr;11(5):388–95

Glucose dependence of glycolysis, hexose monophosphate shunt activity, energy status, and the polyol pathway in retinas isolated from normal (nondiabetic) rats [see comments] Winkler BS, et al. **Invest Ophthalmol Vis Sci** 1997 Jan;38(1):62–71. Comment in: Invest Ophthalmol Vis Sci 1997 Jul;38(8):1467–70.

Altered glycolytic and oxidative capacities of skeletal muscle contribute to insulin resistance in NIDDM. Simoneau JA, et al. **J Appl Physiol** 1997 Jul;83(1):166–71

Role of oxidative metabolism on endothelium-dependent vascular relaxation of isolated vessels. Cappelli-Bigazzi M, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):871–9

Paradoxically enhanced glucose production during exercise in humans with blocked glycolysis caused by muscle phosphofructokinase deficiency. Vissing J, et al. **Neurology** 1996 Sep;47(3):766–71

Glycolysis is not responsible for the tolerance of immature renal tubules to anoxia. Gaudio KM, et al. **Pediatr Res** 1996 Sep;40(3):457–61

Metabolic changes in the striatum after germinal matrix hemorrhage in the preterm infant. Toft PB, et al. **Pediatr Res** 1997 Mar;41(3):309–16

[Activity of key enzymes of the glycolytic and pentose phosphate pathways in plasmid-containing Staphylococci] Gavriliuk VG, et al. **Ukr Biokhim Zh** 1996 Jan–Feb; 68(1):45–8 (Eng. Abstr.) **(Rus)**

[The formation of supramolecular complexes as the pathway in the regulation of glycolytic enzyme activity] Lushchak VI. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):20–8 (68 ref.) (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

Transient increase in glycolytic metabolism in cultured tumor cells immediately after exposure to ionizing radiation: from gene expression to deoxyglucose uptake. Fujibayashi Y, et al. **Radiat Res** 1997 Jun;147(6):729–34

[Effect of x-irradiation on the structural and functional characteristics of rat erythrocytes and activity of individual enzymes of glycolysis] Starykovych LS, et al. **Ukr Biokhim Zh** 1996 Nov–Dec;68(6):80–5 (Eng. Abstr.) **(Ukr)**

GLYCOPEPTIDES

ADMINISTRATION & DOSAGE

Rat liver pit cells following administration of the glycopeptide preparation (Polyerga). Gulubova MV, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):698–704

ADVERSE EFFECTS

Inhalation of phosphoramidon, a neutral endopeptidase inhibitor, induces cough in awake guinea-pigs. Takahama K, et al. **Arch Int Pharmacodyn Ther** 1995 Sep–Oct; 330(2):241–50

ANALYSIS

Analysis of acidic oligosaccharides and glycopeptides by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Papac DI, et al. **Anal Chem** 1996 Sep 15;68(18):3215–23

Occurence of a sialylglycopeptide and free sialylglycans in hen's egg yolk. Seko A, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):23–32

Analysis of glycoproteins and glycopeptides using fast-atom bombardment. Rademaker GJ, et al. **Methods Mol Biol** 1996;61:231–41

CHEMICAL SYNTHESIS

Artificial glycopolypeptide conjugates: simple synthesis of lactose- and N,N'-diacetylchitobiose-substituted poly(L-glutamic acid)s through N-beta-glycoside linkages and their interaction with lectins. Kobayashi K, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):117–22

Synthesis of glycopeptides with phytoalexin elicitor activity—III. Syntheses of hexaglycosyl hexapeptides and a nonaglycosyl hexapeptide. Takeda T, et al. **Bioorg Med Chem** 1996 Nov;4(11):1873–80

Solid-phase synthesis of an O-linked glycopeptide based on a benzyl-protected glycan approach. Nakahara Y, et al. **Carbohydr Res** 1996 Oct 4;292:71–81

Syntheses of triglycosyl tetrapeptides and a hexaglycosyl tetrapeptide. Takeda T, et al. **Carbohydr Res** 1996 Mar 22; 283:81–93

S- and C-glycopeptide derivatives of an LH-RH agonist. Michael K, et al. **Int J Pept Protein Res** 1996 Jul; 48(1):59–70

Synthesis and pharmacological activity of deltorphin and dermorphin-related glycopeptides. Tomatis R, et al. **J Med Chem** 1997 Aug 29;40(18):2948–52

Preparation of a multiple antigen glycopeptide (MAG) carrying the Tn antigen. A possible approach to a synthetic carbohydrate vaccine. Bay S, et al. **J Pept Res** 1997 Jun; 49(6):620–5

Multiple column synthesis of a library of T-cell stimulating Tn-antigenic glycopeptide analogues for the molecular characterization of T-cell-glycan specificity. Frische K, et al. **J Pept Sci** 1996 Jul–Aug;2(4):212–22

Neoglycopeptide synthesis and purification in multi-gram scale: preparation of O-(2,3,4,6-tetra-O-acetyl-beta-D-galactopyranosyl)-N alpha-fluoren-9-yl-methoxycarbonyl-hydroxyproline and its use in the pilot-scale synthesis of the potent analgesic glycopeptide O1.5-beta-D-galactopyranosyl [DMet2, Hyp5]enkephalinamide. Torres JL, et al. **J Pept Sci** 1997

Mar-Apr;3(2):99-109
[Addition of sugar chains to peptide using endoglycosidase] Yamamoto K. **Seikagaku** 1996 Nov;68(11):1713-7 (14 ref.) **(Jpn)**
[New chemical method for synthesis of O-linked glycopeptides] Polt RL, et al. **Postepy Hig Med Dosw** 1996; 50(5):493-503 (Eng. Abstr.) **(Pol)**

CHEMISTRY

Europium labeling of natural and synthetic glycopeptides. Kawasaki N, et al. **Anal Biochem** 1997 Aug 1;250(2):260-2
Constrained glycopeptide ligands for MPRs. Limitations of unprotected phosphorylated building blocks. Franzyk H, et al. **Bioorg Med Chem** 1997 Jan;5(1):21-40
A new strategy for stereoselective synthesis of sialic acid-containing glycopeptide fragment. Wang ZG, et al. **Bioorg Med Chem** 1996 Nov;4(11):1901-8
Molecular motions of a glycopeptide from human serum transferrin studied by 13C nuclear magnetic resonance. Lu J, et al. **Biophys J** 1997 Jan;72(1):470-81
Isolation and characterization of an amino sugar-rich glycopeptide from the surface layer glycoprotein of Thermoanaerobacterium thermosaccharolyticum E207-71. Altman E, et al. **Carbohydr Res** 1996 Dec 13;295:245-53
Synthesis and characterisation of highly glycosylated glycopeptides with Tn-antigenic structures corresponding to human glycophorin AN. Klich G, et al. **Carbohydr Res** 1997 Mar 26;299(1-2):33-48
Complete 1H and 13C resonance assignments of a 21-amino acid glycopeptide prepared from human serum transferrin. Lu J, et al. **Carbohydr Res** 1996 Dec 24;296:1-21
Sample matrix effects on glycopeptide stability by high performance capillary electrophoresis. Rush RS, et al. **Electrophoresis** 1997 May;18(5):751-6
The N-glycosylation sites of soybean seed coat peroxidase. Gray JS, et al. **Glycobiology** 1997 Jul;7(5):679-85
Complete 1H NMR assignments of synthetic glycopeptides from the carbohydrate-protein linkage region of serglycins. Curto EV, et al. **Glycoconj J** 1996 Aug;13(4):599-607
Molecular characterization of the large heavily glycosylated domain glycopeptide from the rat small intestinal Muc2 mucin. Karlsson NG, et al. **Glycoconj J** 1996 Oct; 13(5):823-31
Determination of the site-specific O-glycosylation pattern of the porcine submaxillary mucin tandem repeat glycopeptide. Model proposed for the polypeptide:galnac transferase peptide binding site. Gerken TA, et al. **J Biol Chem** 1997 Apr 11;272(15):9709-19
Localization of O-glycosylation sites on glycopeptide fragments from lactation-associated MUC1. All putative sites within the tandem repeat are glycosylation targets in vivo. Müller S, et al. **J Biol Chem** 1997 Oct 3; 272(40):24780-93
Mass spectrometric characterization of the beta-subunit of human chorionic gonadotropin. Liu C, et al. **J Mass Spectrom** 1997 Jan;32(1):33-42
Multiple column synthesis of a library of T-cell stimulating Tn-antigenic glycopeptide analogues for the molecular characterization of T-cell-glycan specificity. Frische K, et al. **J Pept Sci** 1996 Jul-Aug;2(4):212-22
Preparation of bifluorescent-labeled glycopeptides for glycoamidase assay. Lee KB, et al. **Methods Enzymol** 1997; 278:512-9
Identification and characterization of glycopeptides in tryptic maps by high-pH anion-exchange chromatography. Townsend RR, et al. **Methods Enzymol** 1996;271:135-47 (19 ref.)
Identification of sites of glycosylation. Sutton CW, et al. **Methods Mol Biol** 1997;64:307-15
Conformational influences of glycosylation of a peptide: a possible model for the effect of glycosylation on the rate of protein folding. Live DH, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12759-61
An easy high-performance liquid chromatography quantification of monosaccharides from ileal mucosal tissue glycoproteins in pigs. Ronchetti F, et al. **Transplant Proc** 1997 May;29(3):1838-9

GENETICS

Cloning of the gene encoding the antibacterial peptide drosocin involved in Drosophila immunity. Expression studies during the immune response. Charlet M, et al. **Eur J Biochem** 1996 Nov 1;241(3):699-706

IMMUNOLOGY

T-cell recognition of tumor-associated carbohydrates: the nature of the glycan moiety plays a decisive role in determining glycopeptide immunogenicity. Galli-Stampino L, et al. **Cancer Res** 1997 Aug 1;57(15):3214-22
Study of the immunostimulating effect of glycophosphopeptical (AM3) in mice. Gallego Olivella J, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):87-9
Carbohydrate and peptide specificity of MHC class II-restricted T cell hybridomas raised against an O-glycosylated self peptide. Jensen T, et al. **J Immunol** 1997 Apr 15;158(8):3769-78

ISOLATION & PURIFICATION

Purification of glycopeptide antibiotics by isoelectric focusing in multicompartment electrolyzers with immobiline membranes. Bossi A, et al. **Electrophoresis** 1996 Jul;17(7):1234-41
Neoglycopeptide synthesis and purification in multi-gram scale: preparation of O-(2,3,4,6-tetra-O-acetyl-beta-D-galactopyranosyl)-N alpha-fluoren-9-yl-methoxycarbonyl-hydroxyproline and its use in the pilot-scale synthesis of the potent analgesic glycopeptide O1.5-beta-D-galactopyranosyl [DMet2, Hyp5]enkephalinamide. Torres JL, et al. **J Pept Sci** 1997 Mar-Apr;3(2):99-109
Preparation of glycopeptides. Sutton CW, et al. **Methods Mol Biol** 1997;64:73-9
Multiple peptide fraction collection by capillary electrophoresis with reinjection analysis. Boss HJ, et al. **Pept Res** 1996 Jul-Aug;9(4):203-9

METABOLISM

Porcine fibrinogen glycopeptides: substrates for detecting endo-beta-N-acetylglucosaminidases F2 and F3(1). Plummer TH Jr, et al. **Anal Biochem** 1996 Mar 1; 235(1):98-101
Glycopeptide mimics of mammalian Man9GlcNAc2. Ligand binding to mannan-binding proteins (MBPs). Franzyk H, et al. **Bioorg Med Chem** 1996 Nov;4(11):1881-99
Transglycosylation of intact sialo complex-type oligosaccharides to the N-acetylglucosamine moieties of glycopeptides by Mucor hiemalis endo-beta-N-acetylglucosaminidase. Haneda K, et al. **Carbohydr Res** 1996 Oct 4;292:61-70
Specificity of O-glycosylation by bovine colostrum UDP-GalNAc: polypeptide alpha-N-acetylgalactosaminyltransferase using synthetic glycopeptide substrates. Brockhausen I, et al. **Glycoconj J** 1996 Oct;13(5):849-56
Similar processes mediate glycopeptide export from the endoplasmic reticulum in mammalian cells and Saccharomyces cerevisiae. Römisch K, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6730-4

PHARMACOKINETICS

Tissue distribution and metabolism of the [32P]-labeled oligodeoxynucleoside methylphosphonate-neoglycopeptide conjugate, [YEE(ah-GalNAc)3]-SMCC-AET-pUmpT7, in the mouse. Hangeland JJ, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):141-9

PHARMACOLOGY

Inhibition of human immunodeficiency virus infection of CD4+ cells by CD4-free glycopeptides from monocytic U937 cells. Mbemba E, et al. **AIDS Res Hum Retroviruses** 1996 Jan 1;12(1):47-53
Synthetic inhibitors of endopeptidase EC 3.4.24.15: potency and stability in vitro and in vivo. Lew RA, et al. **Br J Pharmacol** 1996 Jul;118(5):1269-77
Satietin: Fos mapping of putative brain sites of action. Rowland NE, et al. **Brain Res** 1996 Apr 22;717(1-2):189-92
Detection of a kappa-casein-specific lymphocyte response in milk-responsive atopic dermatitis. Werfel T, et al. **Clin Exp Allergy** 1996 Dec;26(12):1380-6
Bradykinin-induced airway microvascular leakage is potentiated by enalaprilat but not by phosphoramidon. Klitzman D, et al. **Enzyme Protein** 1994-95;48(4):191-6
Thromboxane A2-receptor blockade improves cerebral protection for deep hypothermic circulatory arrest. Tsui SS, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):228-35
Scavenging of reactive oxygen species by a glycolipid fraction of Mycobacterium avium serovar 2. Scherer TA, et al. **Free Radic Biol Med** 1997;22(3):561-5
The immunosenescent phenotype in mice and humans can be defined by alterations in the natural immunity reversal by immunomodulation with oral AM3. Villarrubia VG, et al. **Immunopharmacol Immunotoxicol** 1997 Feb; 19(1):53-74
Relationship between NO-synthase activity and TNF-alpha secretion in mouse macrophage lines stimulated by a muramyl peptide entrapped in nanocapsules. Seyler I, et al. **Int J Immunopharmacol** 1996 Jun-Jul;18(6-7):385-92
Degradation of bradykinin in human urine by carboxypeptidase Y-like exopeptidase and neutral endopeptidase and their inhibition by ebelactone B and phosphoramidon. Saito M, et al. **Int J Tissue React** 1995; 17(5-6):181-90
In-vitro study of the synergy between beta-lactam antibiotics and glycopeptides against enterococci. Ravizzola G, et al. **J Antimicrob Chemother** 1997 Apr;39(4):461-70
Knockout of the two ldh genes has a major impact on peptidoglycan precursor synthesis in Lactobacillus plantarum. Ferain T, et al. **J Bacteriol** 1996 Sep; 178(18):5431-7
Synthesis and pharmacological activity of deltorphin and dermorphin-related glycopeptides. Tomatis R, et al. **J Med Chem** 1997 Aug 29;40(18):2948-52
Almost complete protection from [Met5]-enkephalin-Arg6-Gly7-Leu8 (Met-enk-RGL) hydrolysis in membrane preparations by the combination of amastatin, captopril and phosphoramidon. Hiranuma T, et al. **J Pharmacol Exp Ther** 1997 May;281(2):769-74
Phosphoramidon, an endothelin converting enzyme inhibitor attenuates local gastric ischemia-reperfusion injury in rats. Hassan M, et al. **Life Sci** 1997;61(10):PL 141-7
Quantitative analysis of the metabolism of soluble cytoplasmic peptidoglycan precursors of glycopeptide-resistant enterococci. Arthur M, et al. **Mol Microbiol** 1996 Jul;21(1):33-44
Phosphoramidon and thiorphan suppress the generation of endothelin (ET) from exogenous big-endothelin by guinea pig Clara cells. Laporte J, et al. **Regul Pept** 1997 Jan 29; 68(2):105-9
Effect of kappa-casein split peptides on platelet aggregation and on thrombus formation in the guinea-pig. Bal dit Sollier C, et al. **Thromb Res** 1996 Feb 15;81(4):427-37
Macrophage inhibitory factor-A3 derived from Mycobacterium avium serovar 2 inhibits candidacidal activity of murine peritoneal macrophages. Hines ME 2nd, et al. **Vet Microbiol** 1996 Dec;53(3-4):295-302
[The morphological characteristics of the pit cells in the rat liver after the use of the glycopeptide preparation Polyerga] Gulubova M, et al. **Eksp Med Morfol** 1994;32(3-4):40-8 (Eng. Abstr.) **(Bul)**
[Mechanisms of resistance to glycopeptides] Navarro F. **Enferm Infecc Microbiol Clin** 1996 May;14(5):317-23 (101 ref.) **(Spa)**

THERAPEUTIC USE

Inhibition of endogenous endothelin during cardioplegia improves low coronary reflow following prolonged hypothermic arrest. Goodwin AT, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):981-7
Effects of low molecular weight glycoproteins in chronic hepatitis B. Vassilev M, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):882-6
[Effect of various modern drugs on the interferon system and phagocytosis in patients with lichen ruber planus] Kubanova AA, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):235-7 **(Rus)**

GLYCOPHORIN

Red cell-mediated therapy: opportunities and challenges. Krantz A. **Blood Cells Mol Dis** 1997;23(1):58-68 (26 ref.)

ANALYSIS

Immunohistochemical demonstration of bleeding in decomposed bodies by using anti-glycophorin A monoclonal antibody. Tabata N, et al. **Forensic Sci Int** 1997 May 23;87(1):1-8
The MiIII phenotype among Chinese donors in Hong Kong: immunochemical and serological studies. Poole J, et al. **Transfus Med** 1991 Sep;1(3):169-75
[Fetal erythroblasts from maternal blood for prenatal genetic diagnosis] Ma X, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 May;31(5):271-4 (Eng. Abstr.) **(Chi)**

CHEMISTRY

Synthesis and characterisation of highly glycosylated glycopeptides with Tn-antigenic structures corresponding to human glycophorin AN. Klich G, et al. **Carbohydr Res** 1997 Mar 26;299(1-2):33-48
Blood group MN-dependent difference in degree of galactosylation of O-glycans of glycophorin A is restricted to the GalNAc residues located on amino acid residues 2-4 of the glycophorin polypeptide chain. Krotkiewski H, et al. **FEBS Lett** 1997 Apr 14;406(3):296-300
The effect of point mutations on the free energy of transmembrane alpha-helix dimerization. Fleming KG, et al. **J Mol Biol** 1997 Sep 19;272(2):266-75
Dimerisation of the glycophorin A transmembrane segment in membranes probed with the ToxR transcription activator. Langosch D, et al. **J Mol Biol** 1996 Nov 8; 263(4):525-30
Improved prediction for the structure of the dimeric transmembrane domain of glycophorin A obtained through global searching [published erratum appears in Proteins 1997 Jan;27(1):132] Adams PD, et al. **Proteins** 1996 Nov; 26(3):257-61
A transmembrane helix dimer: structure and implications. MacKenzie KR, et al. **Science** 1997 Apr 4;276(5309):131-3

GENETICS

SfaNI polymorphism distinguishes the alleles of the glycophorin A locus that determine the MN blood group. Leos SH, et al. **Acta Haematol** 1997;98(1):51-3
The glycophorin A gene family in gorillas: structure, expression, and comparison with the human and chimpanzee homologues. Xie SS, et al. **Biochem Genet** 1997 Feb;35(1-2):59-76
Alternative splicing of a novel glycophorin allele GPHe(GL) generates two protein isoforms in the human erythrocyte membrane. Huang CH, et al. **Blood** 1997 Jul 1;90(1):391-7
Increased frequency of somatic mutations at glycophorin A loci in patients with aplastic anaemia, myelodysplastic syndrome and paroxysmal nocturnal haemoglobinuria. Hattori H, et al. **Br J Haematol** 1997 Aug;98(2):384-91
Glycophorin A somatic cell mutation frequencies in Finnish reinforced plastics workers exposed to styrene. Bigbee WL, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Oct; 5(10):801-10
Evidence for increased somatic cell mutations in patients with hepatocellular carcinoma. Okada S, et al. **Carcinogenesis**

1997 Feb;18(2):445–9
Monitoring exposure to atomic bomb radiation by somatic mutation. Akiyama M, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:493–6
Distribution of types for six PCR–based loci; LDLR, GYPA, HBGG, D7S8, GC and HLA–DQA1 in central Pyrenees and Teruel (Spain). Bell B, et al. **J Forensic Sci** 1997 May; 42(3):510–3
Population data on the loci LDLR, GYPA, HBGG, D7S8, and GC in three southwest European populations. Rodriguez–Calvo MS, et al. **J Forensic Sci** 1996 Mar; 41(2):291–6
Navajo, Pueblo, and Sioux population data on the Loci HLA–DQA1, LDLR, GYPA, HBGG, D7S8, Gc, and D1S80. Scholl S, et al. **J Forensic Sci** 1996 Jan;41(1):47–51
Ala–insertion scanning mutagenesis of the glycophorin A transmembrane helix: a rapid way to map helix–helix interactions in integral membrane proteins. Mingarro I, et al. **Protein Sci** 1996 Jul;5(7):1339–41
Biodosimetry of Chernobyl cleanup workers from Estonia and Latvia using the glycophorin A in vivo somatic cell mutation assay. Bigbee WL, et al. **Radiat Res** 1997 Feb; 147(2):215–24
Molecular genetics of glycophorin MNS variants. Blumenfeld OO, et al. **Transfus Clin Biol** 1997 Jul; 4(4):357–65 (33 ref.)
The distribution of the MiIII (Gp.Mur) phenotype among the population of Taiwan. Broadberry RE, et al. **Transfus Med** 1996 Jun;6(2):145–8

IMMUNOLOGY

Direct immunofluorescence labeling provides an improved method for the glycophorin A somatic cell mutation assay. Jensen RH, et al. **Cytometry** 1996 Apr 1;23(4):337–43
Design and expression of a stable bispecific scFv dimer with affinity for both glycophorin and N9 neuraminidase. Atwell JL, et al. **Mol Immunol** 1996 Dec;33(17–18):1301–12
Reactivity of anti–glycophorin monoclonal antibodies (Mabs) in tests with red cells of non–human primates. Blancher A, et al. **Transfus Clin Biol** 1997;4(1):81–5
Subspecificities of anti–M and anti–N antibodies tested with chemically–modified antigens. Duk M, et al. **Transfus Clin Biol** 1997;4(1):69–71
Characterization of selected GPA, GPA and GPB, and/or Band 3 MAbs. Moulds MK, et al. **Transfus Clin Biol** 1997; 4(1):89
Immunochemical characterisation of monoclonal antibodies directed to glycophorins A and/or B. Rasamoelisolo M, et al. **Transfus Clin Biol** 1997;4(1):91–6
Coordinator's report: glycophorin/band 3 and associated antigens. Reid ME, et al. **Transfus Clin Biol** 1997;4(1):57–64
Characterization of monoclonal antibodies in section 2B using enzymes and variant red blood cells. Reid ME, et al. **Transfus Clin Biol** 1997;4(1):65–8
Recombinant blood group antigens are useful for studying the fine specificity of antibodies against glycophorin A encoded antigens. Rozmyslowicz T, et al. **Transfus Clin Biol** 1997;4(1):77–80
Mapping of peptidic epitopes of glycophorins A (GPA) and C (GPC) with peptides synthesized on plastic pins (Pepscan analysis). Waśniowska K, et al. **Transfus Clin Biol** 1997; 4(1):73–5
Severe autoimmune hemolytic anemia associated with IgM warm autoantibodies directed against determinants on or associated with glycophorin A. Garratty G, et al. **Vox Sang** 1997;72(2):124–30
Fine characterization of a series of new monoclonal antibodies directed against glycophorin A. Rasamoelisolo M, et al. **Vox Sang** 1997;72(3):185–91

METABOLISM

Interaction of human erythrocyte glycophorin with immunoglobulins G. Mikulska J, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):27–32
The glycophorin A gene family in gorillas: structure, expression, and comparison with the human and chimpanzee homologues. Xie SS, et al. **Biochem Genet** 1997 Feb;35(1–2):59–76
Degradation of glycophorin A of human erythrocytes in patients with myelo– or lymphoproliferative disorders: possible role of neutrophil proteases. Bykowska K, et al. **Br J Haematol** 1997 Mar;96(3):514–20
The thiol–dependent reductase ERp57 interacts specifically with N–glycosylated integral membrane proteins [published erratum appears in J Biol Chem 1997 Aug 8;272(32):20312] Elliott JG, et al. **J Biol Chem** 1997 May 23; 272(21):13849–55
The PDZ domain of human erythrocyte p55 mediates its binding to the cytoplasmic carboxyl terminus of glycophorin C. Analysis of the binding interface by in vitro mutagenesis. Marfatia SM, et al. **J Biol Chem** 1997 Sep 26;272(39):24191–7
Interaction between complement proteins C5b–7 and erythrocyte membrane sialic acid. Marshall P, et al. **J Exp Med** 1996 Oct 1;184(4):1225–32
Dimerisation of the glycophorin A transmembrane segment in membranes probed with the ToxR transcription activator. Langosch D, et al. **J Mol Biol** 1996 Nov 8; 263(4):525–30

PHARMACOLOGY

Glycophorin–induced differentiation of human myelogenous leukemic cell lines. Murayama J, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2545–8
Glycophorin A as a biological dosimeter for radiation dose to the bone marrow from iodine–131. Jensen RH, et al. **Radiat Res** 1997 Jun;147(6):747–52

RADIATION EFFECTS

Glycophorin A somatic cell mutation frequencies in residents of Tibet at high altitudes. Jensen RH, et al. **Health Phys** 1997 Oct;73(4):663–7

GLYCOPROTEIN 4–BETA–GALACTOSYLTRANSFERASE

ANALYSIS

Secretory component, the receptor for polymeric immunoglobulin, has nothing to do with beta–galactosyltransferase in human milk. Kobayashi K, et al. **Immunol Lett** 1996 Apr;50(1–2):99–104

DEFICIENCY

Growth retardation and early death of beta–1,4–galactosyltransferase knockout mice with augmented proliferation and abnormal differentiation of epithelial cells. Asano M, et al. **EMBO J** 1997 Apr 15; 16(8):1850–7

IMMUNOLOGY

Secretory component, the receptor for polymeric immunoglobulin, has nothing to do with beta–galactosyltransferase in human milk. Kobayashi K, et al. **Immunol Lett** 1996 Apr;50(1–2):99–104

GLYCOPROTEIN HORMONES, ALPHA SUBUNIT

Relationship between gonadotropin subunit messenger ribonucleic acid levels and plasma gonadotropin concentrations in intact and orchidectomized adult rats. Winters SJ. **Biol Reprod** 1996 Oct;55(4):828–32

ANALYSIS

Distribution of alpha– and beta–subunits of glycoprotein hormones in thyrogonadotroph in the anterior pituitary cells of the musk shrew (Suncus murinus). Hirano N, et al. **Acta Anat (Basel)** 1996;156(2):87–93
Characterization of amylin and calcitonin receptor binding in the mouse alpha–thyroid–stimulating hormone thyrotroph cell line. Perry KJ, et al. **Endocrinology** 1997 Aug;138(8):3486–96
Immunoreactivity for the alpha–subunit of the pituitary glycoprotein hormones in pulmonary neuroendocrine cells of developing human lung and various perinatal diseases. Van den Steen P, et al. **Regul Pept** 1997 May 14;70(1):37–48

ANTAGONISTS & INHIBITORS

D–amino acid substitution of residues 32 to 46 of the glycoprotein hormone common alpha–subunit: development of a synthetic glycoprotein hormone antagonist. Leng N, et al. **Pept Res** 1996 Jul–Aug; 9(4):188–94

BIOSYNTHESIS

Correlation in HeLa cells of anchorage–independent growth and synthesis of the glycoprotein hormone alpha–subunit. Cox GS. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):425–31
Expression of alpha and beta genes of human chorionic gonadotropin in lung cancer. Yokotani T, et al. **Int J Cancer** 1997 May 16;71(4):539–44
Expression and cellular localization of inhibin alpha–subunit mRNA in equine fetal gonads. Yamanouchi K, et al. **J Vet Med Sci** 1997 Jul;59(7):569–73
The function of retinoid X receptors on negative thyroid hormone response elements. Takeda T, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):85–96

BLOOD

Chromogranin A as serum marker for neuroendocrine neoplasia: comparison with neuron–specific enolase and the alpha–subunit of glycoprotein hormones. Nobels FR, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2622–8
A case of thyrotropin–secreting pituitary microadenoma with normal thyrotropin alpha–subunit level. Ozata M, et al. **Thyroid** 1997 Jun;7(3):441–7
[Eutopic and ectopic production of glycoprotein hormones alpha and beta subunits] Bidart JM, et al. **Ann Endocrinol (Paris)** 1997;58(2):125–8 (29 ref.) (Eng. Abstr.) **(Fre)**

CHEMICAL SYNTHESIS

D–amino acid substitution of residues 32 to 46 of the glycoprotein hormone common alpha–subunit: development of a synthetic glycoprotein hormone antagonist. Leng N, et al. **Pept Res** 1996 Jul–Aug; 9(4):188–94

CHEMISTRY

Disulfide bonds 7–31 and 59–87 of the alpha–subunit play a different role in assembly of human chorionic gonadotropin and lutropin. Furuhashi M, et al. **Endocrinology** 1996 Oct;137(10):4196–200
Cystine knot of the gonadotropin alpha subunit is critical for intracellular behavior but not for in vitro biological activity. Sato A, et al. **J Biol Chem** 1997 Jul 18; 272(29):18098–103

GENETICS

Follicle stimulating hormone–beta subunit gene is expressed in parallel with a transcription factor Ad4BP/SF–1 in human pituitary adenomas. Ikuyama S, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):187–93
Molecular cloning of cDNA encoding two types of pituitary gonadotropin alpha subunit from the goldfish, Carassius auratus. Kobayashi M, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):372–8
The cAMP response elements of the alpha subunit gene bind similar proteins in trophoblasts and gonadotropes but have distinct functional sequence requirements. Heckert LL, et al. **J Biol Chem** 1996 Dec 6;271(49):31650–6
Regulation of the human chorionic gonadotropin alpha– and beta–subunit promoters by AP–2. Johnson W, et al. **J Biol Chem** 1997 Jun 13;272(24):15405–12
Insect cells infected with a recombinant baculovirus express both O– and N–glycosylated forms of the rat glycoprotein hormone alpha–subunit. Delahaye R, et al. **J Mol Endocrinol** 1996 Apr;16(2):141–9
Molecular cloning of the cDNAs encoding pituitary glycoprotein hormone alpha– and gonadotropin II beta–subunits of the Japanese eel, Anguilla japonica, and increase in their mRNAs during ovarian development induced by injection of chum salmon pituitary homogenate. Nagae M, et al. **J Mol Endocrinol** 1996 Apr;16(2):171–81
Calcium and glycoprotein hormone alpha–subunit gene expression and secretion in alpha T3–1 gonadotropes. Holdstock JG, et al. **Mol Endocrinol** 1996 Nov; 10(11):1308–17

IMMUNOLOGY

A defined epitope on the human choriogonadotropin alpha–subunit interacts with the second extracellular loop of the transmembrane domain of the lutropin/choriogonadotropin receptor. Couture L, et al. **Eur J Biochem** 1996 Oct 15;241(2):627–32

METABOLISM

A defined epitope on the human choriogonadotropin alpha–subunit interacts with the second extracellular loop of the transmembrane domain of the lutropin/choriogonadotropin receptor. Couture L, et al. **Eur J Biochem** 1996 Oct 15;241(2):627–32
Quantification of salmon alpha– and thyrotropin (TSH) beta–subunit messenger RNA by an RNase protection assay: regulation by thyroid hormones. Larsen DA, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):98–108
Cystine knot of the gonadotropin alpha subunit is critical for intracellular behavior but not for in vitro biological activity. Sato A, et al. **J Biol Chem** 1997 Jul 18; 272(29):18098–103

PHYSIOLOGY

Disulfide bonds 7–31 and 59–87 of the alpha–subunit play a different role in assembly of human chorionic gonadotropin and lutropin. Furuhashi M, et al. **Endocrinology** 1996 Oct;137(10):4196–200

SECRETION

Characteristics of antigens from an HCG alpha secreting cell line (ElCo) derived from human breast carcinoma in a Native American patient. Pattillo RA, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):S246–54
Contrasts in the gonadotropin–releasing hormone dose–response relationships for luteinizing hormone, follicle–stimulating hormone and alpha–subunit release in young versus older men: appraisal with high–specificity immunoradiometric assay and deconvolution analysis. Zwart AD, et al. **Eur J Endocrinol** 1996 Oct;135(4):399–406
Calcium and glycoprotein hormone alpha–subunit gene expression and secretion in alpha T3–1 gonadotropes. Holdstock JG, et al. **Mol Endocrinol** 1996 Nov; 10(11):1308–17

GLYCOPROTEIN SIALYLTRANSFERASES see **SIALYLTRANSFERASES**

GLYCOPROTEIN SYNDROME, CARBOHYDRATE–DEFICIENT see **CARBOHYDRATE–DEFICIENT GLYCOPROTEIN SYNDROME**

GLYCOPROTEINS

Sphingolipid activator proteins. Suzuki K. **Essays Biochem** 1995;29:25–37 (28 ref.)
Symposium on structure, function and evolution of

glycoproteins and related molecules. Dedicated to Robert L. Hill to commemorate his 65th birthday. Orcas Island, Washington, August 16–19, 1995. **Glycobiology** 1996 Oct; 6(7):647–716

Albert Neuberger (1908–96): founder of modern glycoprotein research. Sharon N. **Glycobiology** 1997 Apr;7(3):x–xiii

Albert Neuberger (1908–96): founder of modern glycoprotein research. Sharon N. **Glycoconj J** 1997 Feb;14(2):155–8

Cell biology of somatolactin. Kaneko T. **Int Rev Cytol** 1996; 169:1–24 (57 ref.)

Human cytomegalovirus glycoproteins. Britt WJ, et al. **Intervirology** 1996;39(5–6):401–12 (97 ref.)

Human carcinoembryonic antigen and biliary glycoprotein can serve as mouse hepatitis virus receptors. Chen DS, et al. **J Virol** 1997 Feb;71(2):1688–91

[Abnormalities of N–linked oligosaccharide moieties of glycoproteins in patients with myotonic dystrophy] Ito K, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1484–5 (4 ref.) (Eng. Abstr.) **(Jpn)**

[Saposins and sphingolipid metabolisms] Hiraiwa M, et al. **Seikagaku** 1996 Jun;68(6):464–74 (67 ref.) **(Jpn)**

[Netrin and semaphorin] Murakami F. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):571–6 (17 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Immunotherapy with a standardized Dermatophagoides pteronyssinus extract. V. Duration of the efficacy of immunotherapy after its cessation. Des Roches A, et al. **Allergy** 1996 Jun;51(6):430–3

Effect of local allergen priming on early, late, delayed–phase, and epicutaneous skin reactions. Weller FR, et al. **Allergy** 1996 Dec;51(12):883–6

Absorption and distribution kinetics of the major Parietaria judaica allergen (Par j 1) administered by noninjectable routes in healthy human beings. Bagnasco M, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):122–9

Immunotherapy with a standardized Dermatophagoides pteronyssinus extract. VI. Specific immunotherapy prevents the onset of new sensitizations in children. Des Roches A, et al. **J Allergy Clin Immunol** 1997 Apr; 99(4):450–3

Protective effect of neoglycoprotein–conjugated muramyl dipeptide against Leishmania donovani infection: the role of cytokines. Sarkar K, et al. **J Immunol** 1997 Jun 1; 158(11):5357–65

[Treatment of chronic pulmonary aspergillosis (fungus ball type, mural thickness type)] Ogawa K. **Kekkaku** 1997 Feb; 72(2):119–24 (Eng. Abstr.) **(Jpn)**

[Surgical stress and the suppression] Tanaka Y, et al. **Masui** 1996 Dec;45 Suppl:S56–67 **(Jpn)**

[Effects of ulinastatin on postoperative renal function in hepatectomized patients with liver cirrhosis] Ueki M, et al. **Masui** 1997 Feb;46(2):251–5 (Eng. Abstr.) **(Jpn)**

[Usefulness of allergen extract Aquagen SQ–Dpt for administering bronchial provocation tests] Siergiejko Z, et al. **Pneumonol Alergol Pol** 1996;64(11–12):750–7 (Eng. Abstr.) **(Pol)**

ADVERSE EFFECTS

House dust mite allergy in Southern Africa—historical perspective and current status. Potter PC, et al. **Clin Exp Allergy** 1996 Feb;26(2):132–7 (26 ref.)

Der p I concentrations in mattress surface and floor dust collected from infants' bedrooms. van Strien RT, et al. **Clin Exp Allergy** 1995 Dec;25(12):1184–9

A combined approach to reduce mite allergen in the bedroom. Weeks J, et al. **Clin Exp Allergy** 1995 Dec; 25(12):1179–83

False–positive skin prick test responses to commercially available dog dander extracts caused by contamination with house dust mite (Dermatophagoides pteronyssinus) allergens. van der Veen MJ, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1028–34

House dust mite exposure in asthmatic and healthy children: the difference is carpeting. Meijer GG, et al. **Pediatr Allergy Immunol** 1995 Nov;6(4):187–91

ANALYSIS

Charcot–Leyden crystals in fine needle aspiration cytology. Arora VK, et al. **Acta Cytol** 1997 Mar–Apr;41(2):409–12

Dust–mite–allergen concentrations in asthmatics' bedrooms in the Quad Cities (Illinois, USA) after the Mississippi River floods of 1993. Curtis L, et al. **Allergy** 1997 Jun;52(6):642–9

House–dust mite allergen Der p 1: amount or concentration? Doull IJ, et al. **Allergy** 1997 Feb;52(2):220–3

Distribution of Dermatophagoides spp., D. farinae and D. pteronyssinus, antigen in homes of patients with asthma in eastern Massachusetts. Hannaway PJ, et al. **Allergy Asthma Proc** 1997 May–Jun;18(3):177–80

Differential sensitivity of estrogen/progesterone receptors and BRST–2 markers in metastatic ductal and lobular breast carcinoma to the skin. Wallace ML, et al. **Am J Dermatopathol** 1996 Jun;18(3):241–7

Tissue inhibitor of metalloproteinase–1 and tissue inhibitor of metalloproteinase–2 expression in human amnion mesenchymal and epithelial cells. Rowe TF, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):915–21

Immunohistochemical study of metalloproteinases and their tissue inhibitors in the lungs of patients with diffuse alveolar damage and idiopathic pulmonary fibrosis. Hayashi T, et al. **Am J Pathol** 1996 Oct;149(4):1241–56

Human sperm coating antigen from seminal plasma origin. Iborra A, et al. **Am J Reprod Immunol** 1996 Aug; 36(2):118–25

Immunoglobulin G is associated with surfactant protein A aggregate isolated from patients with pulmonary alveolar proteinosis. Hattori A, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1785–8

Pulmonary epithelial cell injury and alveolar–capillary permeability in berylliosis. Inoue Y, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):109–15

Sequencing of N–linked oligosaccharides directly from protein gels: in–gel deglycosylation followed by matrix–assisted laser desorption/ionization mass spectrometry and normal–phase high–performance liquid chromatography. Küster B, et al. **Anal Biochem** 1997 Jul 15;250(1):82–101

Quantitative reverse zymography: analysis of picogram amounts of metalloproteinase inhibitors using gelatinase A and B reverse zymograms. Oliver GW, et al. **Anal Biochem** 1997 Jan 1;244(1):161–6

Eliminating amino acid and peptide interference in high–performance anion–exchange pulsed amperometric detection glycoprotein monosaccharide analysis. Weitzhandler M, et al. **Anal Biochem** 1996 Oct 1; 241(1):128–34

Direct isoform analysis of high–mannose–containing glycoproteins by on–line capillary electrophoresis electrospray mass spectrometry. Yeung B, et al. **Anal Chem** 1997 Jul 1;69(13):2510–6

Immunocytochemical and ultrastructural characterization of prolactin, growth hormone, and somatolactin cells from the Mediterranean yellowtail (Seriola dumerilii, Risso 1810). Garcia–Ayala A, et al. **Anat Rec** 1997 Mar; 247(3):395–404

Mucus glycoproteins from pig gastric mucosa: identification ofdifferent mucin populations from the surface epithelium. Nordman H, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):903–10

Cellular and subcellular localization of glycogenin in chicken retina. Miozzo MC, et al. **Biochem Mol Biol Int** 1996 Sep; 40(1):173–80

Metalloproteinases and TIMP–1 in proliferative vitreoretinopathy. Limb AS, et al. **Biochem Soc Trans** 1997 May;25(2):234S

Mosquito midgut glycoproteins and recognition sites for malaria parasites. Ramasamy R, et al. **Biochim Biophys Acta** 1997 Jul 10;1361(1):114–22

Effects of fixation and tissue processing on immunohistochemical demonstration of specific antigens. Arnold MM, et al. **Biotech Histochem** 1996 Sep; 71(5):224–30

Loss of interleukin 4 receptor–associated molecule gp200–MR6 in human breast cancer: prognostic significance. Kaklamanis L, et al. **Br J Cancer** 1996 Nov; 74(10):1627–31

Differential expression of gp200–MR6 molecule in benign hyperplasia and down–regulation in invasive carcinoma of the breast. al–Tubuly AA, et al. **Br J Cancer** 1996 Oct; 74(7):1005–11

Localization of the glutamate transporter protein GLAST in rat retina. Lehre KP, et al. **Brain Res** 1997 Jan 2; 744(1):129–37

Breast carcinoma detection with a combination of radiolabeled monoclonal antibodies. Promising results from immunohistochemistry studies. Mangili F, et al. **Cancer** 1996 Dec 1;78(11):2334–9

Correlation between tumor–associated glycoprotein 72 mucin levels in tumor and serum of colorectal patients as measured by the quantitative CA 72–4 immunoassay. Guadagni F, et al. **Cancer Res** 1996 Nov 15;56(22):5293–8

Characterization of glycoconjugates in the epididymal epithelium and luminal fluid during postnatal development of the mouse. Bendahmane M, et al. **Cell Tissue Res** 1997 Mar;287(3):611–9

Differential distribution of five members of the matrix metalloproteinase family and one inhibitor (TIMP–1) in human liver and skin. Geisler S, et al. **Cell Tissue Res** 1997 Jul;289(1):173–83

Immunochemical analysis of the subcommissural organ–Reissner's fiber complex using antibodies against alkylated and deglycosylated glycoproteins of the bovine Reissner's fiber. Nualart F, et al. **Cell Tissue Res** 1996 Oct; 286(1):23–31

New mattresses: how fast do they become a significant source of exposure to house dust mite allergens? [see comments] Custovic A, et al. **Clin Exp Allergy** 1996 Nov;26(11):1243–5 . Comment in: Clin Exp Allergy 1996 Nov;26(11):1225–7.

Domestic allergens in public places. II: Dog (Can f1) and cockroach (Bla g 2) allergens in dust and mite, cat, dog and cockroach allergens in the air in public buildings [see comments] Custovic A, et al. **Clin Exp Allergy** 1996 Nov; 26(11):1246–52. Comment in: Clin Exp Allergy 1996 Nov;26(11):1225–7.

Fel d I levels in cat anal glands. De Andrade AD, et al. **Clin Exp Allergy** 1996 Feb;26(2):178–80

Reduction in humidity as a method of controlling mites and mite allergens: the use of mechanical ventilation in British domestic dwellings. Fletcher AM, et al. **Clin Exp Allergy** 1996 Sep;26(9):1051–6

A clinical evaluation in children of the Pharmacia ImmunoCAP system for inhalant allergens. Gleeson M, et al. **Clin Exp Allergy** 1996 Jun;26(6):697–702

Species–specific measurement of the second group of Dermatophagoides mite allergens, Der p 2 and Der f 2, using a monoclonal antibody–based ELISA. Yasueda H, et al. **Clin Exp Allergy** 1996 Feb;26(2):171–7

90K (Mac–2 BP) in human milk. D'Ostilio N, et al. **Clin Exp Immunol** 1996 Jun;104(3):543–6

Charcot—Leyden crystals in fine needle aspiration (FNA) cytology of acute myeloid leukaemia [letter] Rubin A, et al. **Cytopathology** 1997 Jun;8(3):211–3

Immunolocalization of human gelatinase (type IV collagenase, MMP–9) and tissue inhibitor of metalloproteinase 1 in Hailey–Hailey and Darier's diseases. Kobayashi T, et al. **Dermatology** 1996;193(2):110–4

TAG–72 expression in lymph nodes and RIGS [letter; comment] Hitchcock CL, et al. **Dis Colon Rectum** 1996 Apr;39(4):473–5. Comment on: Dis Colon Rectum 1995 Sep;38(9):983–7.

Proteome analysis of glycoforms: a review of strategies for the microcharacterisation of glycoproteins separated by two–dimensional polyacrylamide gel electrophoresis. Packer NH, et al. **Electrophoresis** 1997 Mar–Apr; 18(3–4):452–60

Capillary electrophoresis with pulsed amperometric detection of carbohydrates and glycopeptides. Weber PL, et al. **Electrophoresis** 1996 Feb;17(2):302–9

Immunohistochemical localization of activin A and follistatin in human tissues. Wada M, et al. **Endocr J** 1996 Aug; 43(4):375–85

Testicular expression of inhibin and activin subunits and follistatin in the rat and human fetus and neonate and during postnatal development in the rat. Majdic G, et al. **Endocrinology** 1997 May;138(5):2136–47

Histochemical study of the epithelia of nasal polyps by biotinylated lectins and neoglycoprotein. A comparison with the normal human respiratory epithelium. Hassid S, et al. **Eur J Morphol** 1997 Apr;35(2):79–86

Surfactant apoprotein–A concentration in airway secretions for the detection of pulmonary oedema. Shimura S, et al. **Eur Respir J** 1996 Dec;9(12):2525–30

Changes in rat gastric mucosal glycoproteins in portal hypertension. Wang JY, et al. **Eur Surg Res** 1997; 29(4):280–6

A comparative analysis of somatolactin–related immunoreactivity in the pituitaries of four neopterygian fishes and one chondrostean fish: an immunohistochemical study. Dores RM, et al. **Gen Comp Endocrinol** 1996 Apr; 102(1):79–87

Immunolocalization of matrix metalloproteinases and tissue inhibitors of metalloproteinases in human chondrosarcomas. Kawashima A, et al. **Gen Diagn Pathol** 1997 Feb;142(3–4):129–37

Developmental changes in carbohydrate antigens in embryonic rat lens. Ogiso M, et al. **Glycobiology** 1997 Jul; 7(5):605–15

A lectin method for investigating the glycosylation of nanogram amounts of purified glycoprotein. Goodarzi MT, et al. **Glycoconj J** 1997 Jun;14(4):493–6

A two–site lectinoenzymatic assay for determination of tumour marker glycoproteins in rectal secretions. Orntoft TF, et al. **Glycoconj J** 1997 Feb;14(2):191–9

Sphingolipid activator proteins in a human hereditary renal disease with deposition of disialogangliosides. Haltia A, et al. **Histochem J** 1996 Oct;28(10):681–7

Stromelysin, gelatinase A and TIMP–1 in prosthetic interface tissue: a role for macrophages in tissue remodelling. Hembry RM, et al. **Histopathology** 1995 Aug;27(2):149–59

Matrix metalloproteinases in bronchoalveolar lavage fluid following antigen challenge. Warner JA, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):318–20

Rapid size distribution and purity analysis of gastric mucus glycoproteins by size exclusion chromatography/multi angle laser light scattering. Jumel K, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):133–9

CA549 and TPS patterns in the diagnosis and staging of patients with breast carcinoma. Vibert HG, et al. **Int J Biol Markers** 1996 Oct–Dec;11(4):198–202

Evaluation of different techniques for washing cats: quantitation of allergen removed from the cat and the effect on airborne Fel d 1 [see comments] Avner DB, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):307–12. Comment in: J Allergy Clin Immunol 1997 Sep;100(3):290–2.

Clothing is a carrier of cat allergens. D'Amato G, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):577–8

Mite allergen (Der p 1) on children's clothing [letter; comment] Siebers RW, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):853–4. Comment on: J Allergy Clin Immunol 1995 Dec;96(6 Pt 1):999–1001.

House dust mite allergen levels in public places in New Zealand. Wickens K, et al. **J Allergy Clin Immunol** 1997 May;99(5):587–93

Distribution of matrix metalloproteinases and their inhibitor, TIMP–1, in developing human osteophytic bone. Bord S, et al. **J Anat** 1997 Jul;191 (Pt 1):39–48

Distribution of IgE and IgG antibody levels against house dust mites in schoolchildren, and their relation with asthma. Shibasaki M, et al. **J Asthma** 1997;34(3):235–42

Inter–alpha–trypsin inhibitor and its related proteins in Syrian hamster urine and plasma. Yamamoto T, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):145–52

Analysis of recombinant DNA–derived glycoproteins via high–performance capillary electrophoresis coupled with off–line matrix–assisted laser desorption ionization

time-of-flight mass spectrometry. Chakel JA, et al. **J Chromatogr B Biomed Appl** 1997 Feb 7;689(1):215–20

Synthesis and application of boronic acid-immobilized porous polymer particles: a novel packing for high-performance liquid affinity chromatography. Koyama T, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26; 679(1–2):31–40

Effects of treatment on gingival crevicular collagenase, stromelysin and tissue inhibitor of metalloproteinases and their ability to predict response to treatment. Haerian A, et al. **J Clin Periodontol** 1996 Feb;23(2):83–91

PP3 component of bovine milk: a phosphorylated whey glycoprotein. Girardet JM, et al. **J Dairy Res** 1996 May; 63(2):333–50 (79 ref.)

Prosaposin, a neurotrophic factor: presence and properties in milk. Patton S, et al. **J Dairy Sci** 1997 Feb;80(2):264–72

Tissue inhibitor of metalloproteinase-1 in the liver of patients with chronic liver disease. Murawaki Y, et al. **J Hepatol** 1997 Jun;26(6):1213–9

Sequential determinations of Dermatophagoides spp. allergens in a tropical city. Fernández-Caldas E, et al. **J Investig Allergol Clin Immunol** 1996 Mar–Apr;6(2):98–102

Spetial and temporal distribution of house dust mite (Astigmata:Pyroglyphidae) allergens Der p 1 and Der f 1 in Barbadian homes. Barnes KC, et al. **J Med Entomol** 1997 Mar;34(2):212–8

Identification of a concanavalin A-binding antigen of the cell surface of Sporothrix schenckii. Lima OC, et al. **J Med Vet Mycol** 1997 May–Jun;35(3):167–72

A critical analysis of total sialic acid and sialoglycoconjugate contents of bovine milk-based infant formulas. Sánchez-Díaz A, et al. **J Pediatr Gastroenterol Nutr** 1997 Apr;24(4):405–10

In situ hybridization study on tissue inhibitors of metalloproteinases (TIMPs) mRNA-expressing cells in human inflamed gingival tissue. Kubota T, et al. **J Periodontal Res** 1997 Jul;32(5):467–72

The effect of subgingival antimicrobial therapy on the levels of stromelysin and tissue inhibitor of metalloproteinases in gingival crevicular fluid. Pourtaghi N, et al. **J Periodontol** 1996 Sep;67(9):866–70

The essential role of mass spectrometry in characterizing protein structure: mapping posttranslational modifications. Annan RS, et al. **J Protein Chem** 1997 Jul;16(5):391–402

Tissue inhibitor of metalloproteinase 1, collagenolytic and gelatinolytic activity in loose hip endoprostheses. Takagi M, et al. **J Rheumatol** 1995 Dec;22(12):2285–90

Tumor-associated glycoprotein (TAG-72) in chronic submandibular sialadenitis and normal minor salivary glands defined by monoclonal antibody B72.3. Epivatianos A, et al. **Laryngoscope** 1997 Aug;107(8):1138–41

Flexilin: a new extracellular matrix glycoprotein localized on collagen fibrils. Lethias C, et al. **Matrix Biol** 1996 Apr; 15(1):11–9

Anti-melanoma monoclonal antibody HMB-45 on enhanced chemiluminescence-western blotting recognizes a 30–35 kDa melanosome-associated sialated glycoprotein. Chiamenti AM, et al. **Melanoma Res** 1996 Aug;6(4):291–8

Analysis of complex protein and glycoprotein mixtures by electrospray ionization mass spectrometry with maximum entropy processing. Green BN, et al. **Methods Mol Biol** 1996;61:279–94

Analysis of glycoproteins and glycopeptides using fast-atom bombardment. Rademaker GJ, et al. **Methods Mol Biol** 1996;61:231–41

High-resolution glycoprotein analysis using capillary electrophoresis. Oda RP, et al. **Mol Biotechnol** 1996 Apr; 5(2):165–70

Identification of glycoproteins on nitrocellulose membranes and gels. Thornton DJ, et al. **Mol Biotechnol** 1996 Apr; 5(2):171–6

Development of a dose-response bioassay for stanniocalcin in fish. Wagner GF, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):19–28

House dust mite and cat allergen levels in domestic dwellings in Christchurch. Martin IR, et al. **N Z Med J** 1997 Jun 27;110(1046):229–31

Evaluation of major parotid glycoproteins in patients with burning mouth syndrome. Lundy FT, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Feb;83(2):252–8

Cellular localization of gp46 at the human fetal–maternal interface. Pak BJ, et al. **Placenta** 1997 Sep;18(7):477–80

Highly specific monoclonal antibody demonstrates that pregnancy-specific glycoprotein (PSG) is limited to syncytiotrophoblast in human early and term placenta. Zhou GQ, et al. **Placenta** 1997 Sep;18(7):491–501

The adenohypophysis of Mediterranean yellowtail, Seriola dumerilii (Risso, 1810): an immunocytochemical study. García-Hernández MP, et al. **Tissue Cell** 1996 Oct; 28(5):577–85

Paneth and goblet cells modify their sugar moieties during acute rejection and up to one year after small bowel transplantation in rats. Michalski S, et al. **Transplant Proc** 1996 Oct;28(5):2477–8

[Distribution of cell adhesion glycoproteins in the human retrobulbar optic nerve] Fukuchi T, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan;101(1):57–63 (Eng. Abstr.) **(Jpn)**

[KL-6 in patients with interstitial pneumonitis] Hamada H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul; 34(7):771–7 (Eng. Abstr.) **(Jpn)**

[Major feline antigen--Fel d I clinical aspects] Zielonka TM. **Pneumonol Alergol Pol** 1996;64(7–8):505–14 (38 ref.) **(Pol)**

[Immunogammagraphy with anti-CEA and anti-TAG-72 monoclonal antibodies in the diagnosis of colorectal carcinoma (see comments)] Muxí Pradas MA, et al. **Med Clin (Barc)** 1996 Nov 9;107(16):601–7 (Eng. Abstr.) . Comment in: Med Clin (Barc) 1996 Nov 9;107(16):617–9. **(Spa)**

ANTAGONISTS & INHIBITORS

Inhibition of glycoprotein processing by L-fructose and L-xylulose. Muniruzzaman S, et al. **Glycobiology** 1996 Dec; 6(8):795–803

Inhibition of the high-affinity brain glutamate transporter GLAST-1 via direct phosphorylation. Conradt M, et al. **J Neurochem** 1997 Mar;68(3):1244–51

BIOSYNTHESIS

Fungal glycoproteins and their biosynthetic pathway as potential targets for antifungal agents. Tanner W, et al. **Acta Biochim Pol** 1995;42(4):505–8 (21 ref.)

Surfactant proteins A and D increase in response to intratracheal lipopolysaccharide. McIntosh JC, et al. **Am J Respir Cell Mol Biol** 1996 Oct;15(4):509–19

Clusterin and the terminal complement pathway synthesized by human umbilical vein endothelial cells are closely linked when detected on co-cultured agarose beads. Berge V, et al. **APMIS** 1997 Jan;105(1):17–24

Extracellular matrix-associated serine protease inhibitors (Mr 33,000, 31,000, and 27,000) are single-gene products with differential glycosylation: cDNA cloning of the 33-kDa inhibitor reveals its identity to tissue factor pathway inhibitor-2. Rao CN, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):82–92

Coordinated effects of fibroblast growth factor-2 on expression of fibrillar collagens, matrix metalloproteinases, and tissue inhibitors of matrix metalloproteinases by human vascular smooth muscle cells. Evidence for repressed collagen production and activated degradative capacity. Pickering JG, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):475–82

Enhancement of cartilage matrix protein synthesis in arthritic cartilage. Okimura A, et al. **Arthritis Rheum** 1997 Jun; 40(6):1029–36

Synthesis of tissue inhibitor of metalloproteinase-1 (TIMP-1) in rabbit aortic neointima after selective de-endothelialization. Wang H, et al. **Atherosclerosis** 1996 Sep 27;126(1):95–104

Induction of heparin binding epidermal growth factor-like growth factor and amphiregulin mRNAs by gastrin in the rat stomach. Tsutsui S, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):520–3

Purification of L-selectin ligands synthesised by rat peripheral lymph nodes and cultured high endothelial cells. Derry CJ, et al. **Biochem Soc Trans** 1997 May;25(2):260S

Matrix metalloproteinase and tissue inhibitor of metalloproteinase regulation of the invasive potential of a metastatic renal cell line. McElligott AM, et al. **Biochem Soc Trans** 1997 Feb;25(1):147S

Distinct mechanisms regulate TIMP-1 expression at different stages of phorbol ester-mediated differentiation of U937 cells. Doyle GA, et al. **Biochemistry** 1997 Mar 4; 36(9):2492–500

Effect of L-fucose and D-glucose concentration on L-fucoprotein metabolism in human Hep G2 cells and changes in fucosyltransferase and alpha-L-fucosidase activity in liver of diabetic rats. Wiese TJ, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):61–72

Transglutaminase and clusterin induction during normal and abnormal limb development in the mouse. Adel Moallem S, et al. **Biol Reprod** 1996 Aug;55(2):281–90

Temporal and spatial expression of tissue inhibitors of metalloproteinases during the natural ovulatory cycle of the mouse. Inderdeo DS, et al. **Biol Reprod** 1996 Sep; 55(3):498–508

Low density lipoprotein receptor-related protein-2 expression in efferent duct and epididymal epithelia: evidence in rats for its in vivo role in endocytosis of apolipoprotein J/clusterin. Morales CR, et al. **Biol Reprod** 1996 Sep;55(3):676–83

An autocrine/paracrine role of human decidual relaxin. II. Stromelysin-1 (MMP-3) and tissue inhibitor of matrix metalloproteinase-1 (TIMP-1). Qin X, et al. **Biol Reprod** 1997 Apr;56(4):812–20

Expression of recombinant glycoproteins in the simple eukaryote Dictyostelium discoideum. Slade MB, et al. **Biotechnol Genet Eng Rev** 1997;14:1–35 (212 ref.)

Expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases in reactive and neoplastic lymphoid cells. Stetler-Stevenson M, et al. **Blood** 1997 Mar 1; 89(5):1708–15

Pharmacological characterization of desensitization in a human mGlu1 alpha-expressing non-neuronal cell line co-transfected with a glutamate transporter. Desai MA, et al. **Br J Pharmacol** 1996 Jul;118(6):1558–64

The effect of estradiol-induced hypothalamic pathology on sulfated glycoprotein-2 (clusterin) expression in the hypothalamus. Wener KM, et al. **Brain Res** 1997 Jan 16; 745(1–2):37–45

Developmental expression of dystrophin, dystrophin-associated glycoproteins and other membrane cytoskeletal proteins in human skeletal and heart muscle. Mora M, et al. **Brain Res Dev Brain Res** 1996 Jan 22; 91(1):70–82

Tissue expression of neu differentiation factor/heregulin and its receptor complex in prostate cancer and its biologic effects on prostate cancer cells in vitro. Lyne JC, et al. **Cancer J Sci Am** 1997 Jan–Feb;3(1):21–30

Effect of matrix glycation on expression of type IV collagen, MMP-2, MMP-9 and TIMP-1 by human mesangial cells. Anderson SS, et al. **Cell Adhes Commun** 1996 Aug; 4(2):89–101

Medium scale production and purification to homogeneity of a recombinant trans-sialidase from Trypanosoma cruzi. Buschiazzo A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jul;42(5):703–10

Chemical and biological approaches to glycoprotein synthesis. Bill RM, et al. **Chem Biol** 1996 Mar;3(3):145–9

Elaboration of the messenger transport organizer pathway for localization of RNA to the vegetal cortex of Xenopus oocytes. Kloc M, et al. **Dev Biol** 1996 Nov 25;180(1):119–30

Biliary glycoprotein 1 expression during embryogenesis: correlation with events of epithelial differentiation, mesenchymal-epithelial interactions, absorption, and myogenesis. Daniels E, et al. **Dev Dyn** 1996 Jul; 206(3):272–90

Expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases in the mouse uterus during the peri-implantation period. Das SK, et al. **Dev Genet** 1997; 21(1):44–54

Expression of proteinases and proteinase inhibitors during embryo-uterine contact in the pig. Menino AR Jr, et al. **Dev Genet** 1997;21(1):68–74

Wnt-11 is expressed in early avian mesoderm and required for the differentiation of the quail mesoderm cell line QCE-6. Eisenberg CA, et al. **Development** 1997 Jan; 124(2):525–36

Cloning of the cDNA encoding mouse PP5/TFPI-2 and mapping of the gene to chromosome 6. Miyagi Y, et al. **DNA Cell Biol** 1996 Nov;15(11):947–54

The solution NMR structure of glucosylated N-glycans involved in the early stages of glycoprotein biosynthesis and folding. Petrescu AJ, et al. **EMBO J** 1997 Jul 16; 16(14):4302–10

Tissue-specific expression of inhibin/activin subunit and follistatin mRNAs in mid- to late-gestational age human fetal testis and epididymis. Roberts VJ. **Endocrine** 1997 Feb; 6(1):85–90

Production of follistatin in porcine endothelial cells: differential regulation by bacterial compounds and the synthetic glucocorticoid RU 28362. Michel U, et al. **Endocrinology** 1996 Nov;137(11):4925–34

Regulation of follistatin production by rat granulosa cells in vitro. Shintani Y, et al. **Endocrinology** 1997 Jun; 138(6):2544–51

Presence of UDP-D-xylose: beta-D-glucoside alpha-1,3-D-xylosyltransferase involved in the biosynthesis of the Xyl alpha 1-3Glc beta-Ser structure of glycoproteins in the human hepatoma cell line HepG2. Omichi K, et al. **Eur J Biochem** 1997 Apr 1;245(1):143–6

Effects of NMDA receptor blockade in the developing rat somatosensory cortex on the expression of the glia-derived extracellular matrix glycoprotein tenascin-C. Mitrovic N, et al. **Eur J Neurosci** 1996 Sep;8(9):1793–802

Matrix metalloproteinases-1 and -8 and TIMP-1 mRNA levels in normal and diseased human gingivae. Aiba T, et al. **Eur J Oral Sci** 1996 Oct–Dec;104(5–6):562–9

Partial homology of stress glycoprotein GP62 with HSP70. Jethmalani SM, et al. **Exp Cell Res** 1997 Apr 10;232(1):8–16

Endogenous TGF-beta activity is modified during cellular aging: effects on metalloproteinase and TIMP-1 expression. Zeng G, et al. **Exp Cell Res** 1996 Nov 1;228(2):271–6

Myofibroblasts and extracellular matrix glycoproteins in palmar fibromatosis. Magro G, et al. **Gen Diagn Pathol** 1997 Feb;142(3–4):185–90

Differential expression of LacdiNAc sequences (GalNAc beta 1-4GlcNAc-R) in glycoproteins synthesized by Chinese hamster ovary and human 293 cells. Do KY, et al. **Glycobiology** 1997 Mar;7(2):183–94

Complexity in O-linked oligosaccharide biosynthesis engendered by multiple polypeptide N-acetylgalactosaminyltransferases. Marth JD. **Glycobiology** 1996 Oct;6(7):701–5 (60 ref.)

The expression of CMP-NeuAc: Gal beta 1,4GlcNAc alpha 2,6 sialyltransferase [EC 2.4.99.1] and glycoproteins bearing alpha 2,6-linked sialic acids in human brain tumours. Yamamoto H, et al. **Glycoconj J** 1995 Dec;12(6):848–56

Up-regulation of type I procollagen C-proteinase enhancer protein messenger RNA in rats with CCl4-induced liver fibrosis. Ogata I, et al. **Hepatology** 1997 Sep;26(3):611–7

Expression of metalloproteinases and tissue inhibitors of metalloproteinases in giant cell tumor of bone: an immunohistochemical study with clinical correlation. Schoedel KE, et al. **Hum Pathol** 1996 Nov;27(11):1144–8

Placental protein 14 production by human Fallopian tube epithelial cells in vitro. Saridogan E, et al. **Hum Reprod** 1997 Jul;12(7):1500–7

African strains of Blastomyces dermatitidis that do not express surface adhesin WI-1. Klein BS, et al. **Infect Immun** 1997 Apr;65(4):1505–9

Expression of beta 1,6 branched asparagine-linked oligosaccharides in non-mitotic and non-migratory cells

of normal human and rat tissues. Li WP, et al. **Int J Cancer** 1997 May 2;71(3):483–90

Metanestin, a glycoprotein with metastasis-associated expression in transitional cell carcinoma of the urinary bladder. Takemoto M, et al. **Int J Cancer** 1997 Feb 20; 74(1):7–14

Expression of neu and Neu differentiation factor in the olfactory mucosa of rat. Salehi-Ashtiani K, et al. **Int J Dev Neurosci** 1996 Nov;14(7–8):801–11

Apolipoprotein J expression in human ocular surface epithelium. Nishida K, et al. **Invest Ophthalmol Vis Sci** 1996 Oct;37(11):2285–92

Temporal induction of clusterin in cisplatin nephrotoxicity. Silkensen JR, et al. **J Am Soc Nephrol** 1997 Feb;8(2):302–5

Differential expression of clusterin in the testis and epididymis of postnatal and germ cell deficient mice. Ahuja HS, et al. **J Androl** 1996 Sep–Oct;17(5):491–501

Expression of clusterin/sulfated glycoprotein-2 under conditions of heat stress in rat Sertoli cells and a mouse Sertoli cell line. Clark AM, et al. **J Androl** 1997 May–Jun; 18(3):257–63

Identification and cloning of human placental bikunin, a novel serine protease inhibitor containing two Kunitz domains. Marlor CW, et al. **J Biol Chem** 1997 May 2; 272(18):12202–8

Human fibroblasts prefer mannose over glucose as a source of mannose for N-glycosylation. Evidence for the functional importance of transported mannose. Panneerselvam K, et al. **J Biol Chem** 1997 Sep 12; 272(37):23123–9

Triiodothyronine and follicle-stimulating hormone, alone and additively together, stimulate production of the tissue inhibitor of metalloproteinases-1 in cultured human luteinized granulosa cells. Goldman S, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1869–73

Immunodetection of glycoprotein hormone subunits in nonfunctioning and glycoprotein hormone-secreting pituitary adenomas. Saccomanno K, et al. **J Endocrinol Invest** 1997 Feb;20(2):59–64

An apoptosis-inducing isoform of neu differentiation factor (NDF) identified using a novel screen for dominant, apoptosis-inducing genes. Grimm S, et al. **J Exp Med** 1997 Mar 17;185(6):1137–42

Basement membrane and repair of injury to peripheral nerve: defining a potential role for macrophages, matrix metalloproteinases, and tissue inhibitor of metalloproteinases-1. La Fleur M, et al. **J Exp Med** 1996 Dec 1;184(6):2311–26

Increased expression of signaling lymphocytic activation molecule in patients with rheumatoid arthritis and its role in the regulation of cytokine production in rheumatoid synovium. Isomäki P, et al. **J Immunol** 1997 Sep 15; 159(6):2986–93

Cytokine and chemokine regulation of proMMP-9 and TIMP-1 production by human peripheral blood lymphocytes. Johnatty RN, et al. **J Immunol** 1997 Mar 1; 158(5):2327–33

Regulation of tissue inhibitor of metalloproteinase-1 in fibroblasts and acute phase proteins in hepatocytes in vitro by mouse oncostatin M, cardiotrophin-1, and IL-6. Richards CD, et al. **J Immunol** 1997 Sep 1;159(5):2431–7

Differential expression of collagens XII and XIV in human skin and in reconstructed skin. Berthod F, et al. **J Invest Dermatol** 1997 May;108(5):737–42

Tissue inhibitor of metalloproteinase 1 (TIMP-1) may be an autocrine growth factor in scleroderma fibroblasts. Kikuchi K, et al. **J Invest Dermatol** 1997 Mar;108(3):281–4

Amphiregulin and nerve growth factor expression are regulated by barrier status in murine epidermis. Liou A, et al. **J Invest Dermatol** 1997 Jan;108(1):73–7

Overexpression of tissue inhibitors of metalloproteinase-1 and -2 in the stroma of gastric cancer. Hong SI, et al. **J Korean Med Sci** 1996 Dec;11(6):474–9

Differential regulation of extracellular matrix metalloproteinase and tissue inhibitor by heparin and cholesterol in fibroblast cells. Tyagi SC, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):391–404

Multiple signal transduction pathways regulate clusterin (gp 80) gene expression in MDCK cells. Gutacker C, et al. **J Mol Endocrinol** 1996 Oct;17(2):109–19

Analysis of the rat clusterin gene promoter and cyclic AMP-regulated mRNA stability in testicular cells. Rosemblit N, et al. **J Mol Endocrinol** 1996 Jun;16(3):287–96

The expression of tissue-type plasminogen activator, matrix metalloproteases and endogenous inhibitors in the central nervous system in multiple sclerosis: comparison of stages in lesion evolution. Cuzner ML, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1194–204

Expression of neuregulins and their putative receptors, ErbB2 and ErbB3, is induced during Wallerian degeneration. Carroll SL, et al. **J Neurosci** 1997 Mar 1;17(5):1642–59

Neuronal regulation of glutamate transporter subtype expression in astrocytes. Swanson RA, et al. **J Neurosci** 1997 Feb 1;17(3):932–40

Expression of mineral-associated proteins by periodontal ligament cells: in vitro vs. ex vivo. Nohutcu RM, et al. **J Periodontal Res** 1996 Jul;31(5):369–72

Expression of N-acetyl-D-galactosamine associated epitope in synovium: a potential marker of glycoprotein production. El-Gabalawy H, et al. **J Rheumatol** 1997 Jul; 24(7):1355–63

Renal apoptosis and clusterin following ureteral obstruction: the role of maturation [see comments] Chevalier RL, et al. **J Urol** 1996 Oct;156(4):1474–9. Comment in: J Urol 1996 Oct;156(4):1244.

Resistance to infection with mouse hepatitis virus (MHV) in the cell clones derived from persistently infected DBT cells with the JHM strain of MHV. Maeda A, et al. **J Vet Med Sci** 1997 Jul;59(7):545–9

Matrix metalloproteinases and their inhibitors in acute myeloid leukemia. Ismair MG, et al. **Leukemia** 1997 Apr; 11 Suppl 3:527–9

Development of recombinant adenoviruses that drive high level expression of the human metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 and -2 genes: characterization of their infection into rabbit smooth muscle cells and human MCF-7 adenocarcinoma cells. Baker AH, et al. **Matrix Biol** 1996 Dec;15(6):383–95

Fibronectin and fibronectin fragments modulate the expression of proteinases and proteinase inhibitors in human periodontal ligament cells. Kapila YL, et al. **Matrix Biol** 1996 Sep;15(4):251–61

A novel class of murine semaphorins with homology to thrombospondin is differentially expressed during early embryogenesis. Adams RH, et al. **Mech Dev** 1996 Jun; 57(1):33–45

Fritz: a secreted frizzled-related protein that inhibits Wnt activity. Mayr T, et al. **Mech Dev** 1997 Apr;63(1):109–25

Production of cell wall polypeptides by different cell wall mutants of the unicellular green alga Chlamydomonas reinhardtii. Voigt J, et al. **Microbiol Res** 1997 Jul; 152(2):189–98

Gonadotrophin regulation of production of tissue inhibitor of metalloproteinases-1 by luteinized human granulosa cells: a potential mechanism for luteal rescue. O'Sullivan MJ, et al. **Mol Hum Reprod** 1997 May;3(5):405–10

Rhizobia modulate root-hair-specific expression of extensin genes. Arsenijević-Maksimović I, et al. **Mol Plant Microbe Interact** 1997 Jan;10(1):95–101

Studies on the response of carrot cells to a Sclerotinia sclerotiorum elicitor: induction of the expression of an extracellular glycoprotein mRNA. Bertinetti C, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):658–63

Antibody to day-old chick brain glycoprotein produces amnesia in adult rats. Alexinsky T, et al. **Neurobiol Learn Mem** 1997 Jan;67(1):14–20

Glutamate receptor agonists up-regulate glutamate transporter GLAST in astrocytes. Gegelashvili G, et al. **Neuroreport** 1996 Dec 20;8(1):261–5

Expression of glial glutamate transporters GLT-1 and GLAST is unchanged in the hippocampus in fully kindled rats. Akbar MT, et al. **Neuroscience** 1997 May;78(2):351–9

Ultraviolet B wavelength dependence for the regulation of two major matrix-metalloproteinases and their inhibitor TIMP-1 in human dermal fibroblasts [corrected and republished article originally printed in 1996 Oct;64(4):649–57] Brenneisen P, et al. **Photochem Photobiol** 1996 Nov;64(5):877–85

Ultraviolet B wavelength dependence for the regulation of two major matrix-metalloproteinases and their inhibitor TIMP-1 in human dermal fibroblasts [corrected and republished in Photochem Photobiol 1996 Nov;64(5):877–85] Brenneisen P, et al. **Photochem Photobiol** 1996 Oct;64(4):649–57

Synthesis of beta2 glycoprotein 1 by the human placenta. Chamley LW, et al. **Placenta** 1997 Jul–Aug;18(5–6):403–10

Accumulation of a glycoprotein that is homologous to a seed storage protein in mung bean hypocotyls at the late stage of tissue elongation. Odaira M, et al. **Plant Cell Physiol** 1997 Mar;38(3):290–6

Characterization of a tobacco extensin gene and regulation of its gene family in healthy plants and under various stress conditions. Hirsinger C, et al. **Plant Mol Biol** 1997 Jan; 33(2):279–89

Expression cloning of the Golgi CMP-sialic acid transporter. Eckhardt M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7572–6

Foreign glycoproteins expressed from recombinant vesicular stomatitis viruses are incorporated efficiently into virus particles. Schnell MJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11359–65

Site-specific de-N-glycosylation of diglycosylated ovalbumin in hen oviduct by endogenous peptide: N-glycanase as a quality control system for newly synthesized proteins. Suzuki T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6244–9

Inherited disorders of glycoprotein synthesis: cell biological insights. McDowell G, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):145–57 (89 ref.)

Cellular localization and hormonal regulation of biosynthesis of insulin-like growth factor binding proteins and of the acid-labile subunit within rat liver. Scharf JG, et al. **Prog Growth Factor Res** 1995;6(2–4):175–80 (23 ref.)

Bacterial production and purification of the fish pituitary hormone somatolactin. Pendón C, et al. **Protein Expr Purif** 1996 Jun;7(4):389–94

Effects of hydrostatic pressure on matrix synthesis and matrix metalloproteinase production in the human lumbar intervertebral disc. Handa T, et al. **Spine** 1997 May 15; 22(10):1085–91

Expression of matrix metalloproteinases and their inhibitors in aneurysms and normal aorta. Tamarina NA, et al. **Surgery** 1997 Aug;122(2):264–71; discussion 271–2

BLOOD

Serum markers for hepatic fibrosis in alcoholic liver disease: which is the best marker, type III procollagen, type IV collagen, laminin, tissue inhibitor of metalloproteinase, or prolyl hydroxylase? Tsutsumi M, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1512–7

Phospholipid binding plasma proteins required for antiphospholipid antibody detection--an overview. McIntyre JA, et al. **Am J Reprod Immunol** 1997 Jan; 37(1):101–10 (86 ref.)

Serum placental protein 14 (PP14) levels in patients with threatened abortion. Tomczak S, et al. **Arch Gynecol Obstet** 1996;258(4):165–9

Usefulness of procalcitonin for differentiation between activity of systemic autoimmune disease (systemic lupus erythematosus/systemic antineutrophil cytoplasmic antibody-associated vasculitis) and invasive bacterial infection. Eberhard OK, et al. **Arthritis Rheum** 1997 Jul; 40(7):1250–6

Analysis of the N-glycosylation of the serum glycoproteins defined by Con A, PHA-E, RCA1 and WGA in Chinese patients with gastrointestinal diseases. Zhang J, et al. **Chin Med Sci J** 1996 Mar;11(1):36–40

What kind of specimen should be selected for determining tissue inhibitor of metalloproteinase-1 (TIMP-1) in blood? [letter] Jung K, et al. **Clin Chim Acta** 1996 Oct 15; 254(1):97–100

Characterization of tissue inhibitor of metalloproteinases-1 in plasma from patients with chronic liver disease. Murawaki Y, et al. **Clin Chim Acta** 1996 Oct 15; 254(1):77–83

Plasma follistatin concentrations increase following lipopolysaccharide administration in sheep. Klein R, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):754–5

Changes of glycoprotein patterns in sera of humans under stress. Barisic K, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):97–101

Determination of free follistatin levels in sera of normal subjects and patients with various diseases. Sakamoto Y, et al. **Eur J Endocrinol** 1996 Sep;135(3):345–51

A prospective controlled study of luteal and endometrial abnormalities in an infertile population. Batista MC, et al. **Fertil Steril** 1996 Mar;65(3):495–502

Circulating levels of follistatin from puberty to menopause. Kettel LM, et al. **Fertil Steril** 1996 Mar;65(3):472–6

Isolation, characterization, and radioimmunoassay of Atlantic halibut somatolactin and plasma levels during stress and reproduction in flatfish. Johnson LL, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):194–209

Placental protein 14 (PP14) does not predict endometrial status under hormone replacement therapy. Haenggi W, et al. **Gynecol Endocrinol** 1997 Feb;11(1):51–7

Preoperative CEA and TAG-72 serum levels as prognostic indicators in resectable gastric carcinoma. González A, et al. **Int J Biol Markers** 1996 Jul–Sep;11(3):165–71

Matrix metalloproteinases 1 and 3, tissue inhibitor of metalloproteinase-1 and the complex of metalloproteinase-1/tissue inhibitor in plasma of patients with prostate cancer. Jung K, et al. **Int J Cancer** 1997 Apr 22;74(2):220–3

Abnormal expression of epidermal growth factor and sulfated glycoprotein SGP-2 messenger RNA in a rat model of autosomal dominant polycystic kidney disease. Cowley BD Jr, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1679–81

Serum insulin-like growth factor I (IGF-I), IGF-binding protein-1 and -3, and the acid-labile subunit as serum markers of body composition during growth hormone (GH) therapy in adults with GH deficiency. Thorén M, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):223–8

Follistatin concentrations in male sheep increase following sham castration/castration or injection of interleukin-1 beta. Phillips DJ, et al. **J Endocrinol** 1996 Oct;151(1):119–24

Activin A and follistatin are dynamically regulated during human pregnancy. Woodruff TK, et al. **J Endocrinol** 1997 Feb;152(2):167–74

Glycoprotein electrophoretic pattern in sera of patients with oral precancerous conditions and upper aerodigestive tract cancer. Patel PS, et al. **J Exp Clin Cancer Res** 1997 Mar; 16(1):65–70

Elevated serum levels of 90K/MAC-2 BP predict unresponsiveness to alpha-interferon therapy in chronic HCV hepatitis patients. Artini M, et al. **J Hepatol** 1996 Aug;25(2):212–7

Circulating matrix metalloproteinase-2 and tissue inhibitor of metalloproteinase-1 as serum markers of fibrosis in patients with chronic hepatitis C. Relationship to interferon response. Kasahara A, et al. **J Hepatol** 1997 Mar; 26(3):574–83

Significance of serum tissue inhibitor of metalloproteinases-1 in various liver diseases. Ueno T, et al. **J Hepatol** 1996 Feb;24(2):177–84

Comparison of E-selectin-binding glycoprotein ligands on human lymphocytes, neutrophils, and bovine gamma delta T cells. Jones WM, et al. **J Immunol** 1997 Oct 1; 159(7):3574–83

Administration of long-term tamoxifen therapy modifies the plasma lipoprotein-lipid concentration and lipid transfer protein I activity in postmenopausal women with breast cancer. Wasan KM, et al. **J Pharm Sci** 1997 Jul;86(7):876–9

Pregnancy-specific protein B and progesterone concentrations in relation to nutritional regimen, placental mass and pregnancy outcome in growing adolescent ewes

carrying singleton fetuses. Wallace JM, et al. **J Reprod Fertil** 1997 Jan;109(1):53–8

High prevalence of antiphospholipid antibodies in patients taking procainamide. Merrill JT, et al. **J Rheumatol** 1997 Jun;24(6):1083–8

Expression of glycosyl–phosphatidylinositol–linked glycoproteins in blood cells from paroxysmal nocturnal haemoglobinuria patients: a flow cytometry study using CD55, CD58 and CD59 monoclonal antibodies. Navenot JM, et al. **Leuk Lymphoma** 1996 Mar;21(1–2):143–51

An in–house ELISA method for measuring surfactant protein A. Cheong KB, et al. **Malays J Pathol** 1995 Dec;17(2):91–6

Apolipoprotein H levels in diabetic subjects: correlation with cholesterol levels. Cassader M, et al. **Metabolism** 1997 May; 46(5):522–5

Quantitation of plasma apolipoprotein J. Jenkins SH, et al. **Methods Enzymol** 1996;263:309–16

Presence of an acidic glycoprotein in the serum of arthritic rats: modulation by capsaicin and curcumin. Joe B, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):125–34

Circulating antigen levels in serum of cattle naturally infected with Schistosoma mattheei. De Bont J, et al. **Parasitology** 1996 Nov;113 (Pt 5):465–71

Experimental Schistosoma bovis infection in goats. Circulating antigen and antibody responses to egg and adult worm antigens during infection and following treatment with praziquantel. Johansen MV, et al. **Parasitology** 1996 Oct;113 (Pt 4):367–75

Studies in sheep examining plasma follistatin elevations due to frequent blood sampling or surgery. Klein R, et al. **Reprod Fertil Dev** 1996;8(2):273–7

Plasma YKL–40: a new potential marker of fibrosis in patients with alcoholic cirrhosis? Johansen JS, et al. **Scand J Gastroenterol** 1997 Jun;32(6):582–90

Detection of the circulating antigens CAA and CCA in a group of Dutch travellers with acute schistosomiasis. van Lieshout L, et al. **Trop Med Int Health** 1997 Jun;2(6):551–7

The acute phase response of acid soluble glycoprotein, alpha(1)–acid glycoprotein, ceruloplasmin, haptoglobin and C–reactive protein, in the pig. Eckersall PD, et al. **Vet Immunol Immunopathol** 1996 Jun 1;51(3–4):377–85

[Clinical significance of serum surfactant proteins A and D in idiopathic interstitial pneumonia] Honda Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:181–5 (Eng. Abstr.) **(Jpn)**

[Pneumocystis carinii pneumonia associated with high levels of serum KL–6] Kawakami R, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec; 34(12):1420–6 (Eng. Abstr.) **(Jpn)**

[How can we monitor and treat patients with acute exacerbations of idiopathic interstitial pneumonia] Kobayashi J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:195–9 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Hypersensitivity pneumonitis monitored with serum KL–6, a marker of interstitial pneumonia] Kobayashi J, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):837–42 (Eng. Abstr.) **(Jpn)**

[Clinical usefulness of KL–6 as a serum marker of idiopathic interstitial pneumonia] Kohno N. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34 Suppl:186–9 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Blood serum glycoproteins in diphtheria in adults] Fedianin IuP. **Ter Arkh** 1996;68(11):12–4 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Significant decreases of ulinastatin–like immunoreactive substance in the cerebrospinal fluid of patients with dementia. Shikimi T, et al. **Neuropsychobiology** 1997; 35(4):187–90

CHEMICAL SYNTHESIS

Chemical synthesis of Haemophilus influenzae glycopeptide conjugates. Kandil AA, et al. **Glycoconj J** 1997 Jan; 14(1):13–7

Inhibition of advanced protein glycation by 8–quinolinecarboxylic hydrazide. Miwa I, et al. **Pharmacology** 1996 May;52(5):314–20

CHEMISTRY

Natural and artificial carbohydrate–glued protein aggregates. Matsubara K, et al. **Adv Biophys** 1997;34:253–62 (24 ref.)

Preparation of pyridylaminated O–linked sugar chains from glycoproteins blotted on a polyvinylidene difluoride membrane and application to human granulocyte colony–stimulating factor. Oh–eda M, et al. **Anal Biochem** 1996 May 1;236(2):369–71

Preparation of neoglycolipids with a definite sugar chain moiety from glycoproteins. Ozaki Y, et al. **Anal Biochem** 1996 Oct 15;241(2):151–5

Oligosaccharide characterization and quantitation using 1–phenyl–3–methyl–5–pyrazolone derivatization and matrix–assisted laser desorption/ionization time–of–flight mass spectrometry. Pitt JJ, et al. **Anal Biochem** 1997 May 15;248(1):63–75

Multimode high–performance liquid chromatography of fluorescently labeled oligosaccharides from glycoproteins. Townsend RR, et al. **Anal Biochem** 1996 Aug 1; 239(2):200–7

Quantitative comparison of global carbohydrate structures of glycoproteins using LC–MS and in–source fragmentation. Mazsaroff I, et al. **Anal Chem** 1997 Jul 1; 69(13):2517–24

Bufo arenarum egg jelly coat: purification and characterization of two highly glycosylated proteins. Arranz SE, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):307–12

Evidence for a conserved binding motif of the dinuclear metal site in mammalian and plant purple acid phosphatases: 1H NMR studies of the di–iron derivative of the Fe(III)Zn(II) enzyme from kidney bean. Battistuzzi G, et al. **Biochem J** 1997 May 1;323 (Pt 3):593–6

Investigations into the molecular size and shape of tomato extensin. Brownleader MD, et al. **Biochem J** 1996 Dec 1; 320 (Pt 2):577–83

Structure of a truncated human surfactant protein D is less effective in agglutinating bacteria than the native structure and fails to inhibit haemagglutination by influenza A virus. Eda S, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):393–9

Comparative studies of rat recombinant purple acid phosphatase and bone tartrate–resistant acid phosphatase. Ek–Rylander B, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):305–11

Prediction of O–glycosylation of mammalian proteins: specificity patterns of UDP–GalNAc:polypeptide N–acetylgalactosaminyltransferase. Hansen JE, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):801–13

Mucus glycoproteins in bovine trachea: identification of the major mucin populations in respiratory secretions and investigation of their tissue origins. Hovenberg HW, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):117–23

Regulation of N–linked core glycosylation: use of a site–directed mutagenesis approach to identify Asn–Xaa–Ser/Thr sequons that are poor oligosaccharide acceptors. Kasturi L, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):415–9

The alpha–helical neck region of human lung surfactant protein D is essential for the binding of the carbohydrate recognition domains to lipopolysaccharides and phospholipids. Kishore U, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):505–11

Involvement of a region near valine–69 of tissue inhibitor of metalloproteinases (TIMP)–1 in the interaction with matrix metalloproteinase 3 (stromelysin 1). Nagase H, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):163–7

Association of purified skeletal–muscle AMP deaminase with a histidine–proline–rich–glycoprotein–like molecule. Ranieri–Raggi M, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):641–8

The use of electrospray ionization MS to determine the structure of glycans in intact glycoproteins. Oliver RW, et al. **Biochem Soc Trans** 1996 Aug;24(3):917–27 (20 ref.)

Novel O–linked glycosylation on basic human parotid proteins. Proctor GB, et al. **Biochem Soc Trans** 1997 Feb; 25(1):11S

The adherence of Streptococcus mutans and streptococcal antigen I/II to a high molecular weight human salivary glycoprotein. Tulloch B, et al. **Biochem Soc Trans** 1996 May;24(2):257S

NMR characterization of side chain flexibility and backbone structure in the type I antifreeze protein at near freezing temperatures. Gronwald W, et al. **Biochemistry** 1996 Dec 24;35(51):16698–704

The mannose–binding protein A region of glutamic acid185–alanine221 can functionally replace the surfactant protein A region of glutamic acid195–phenylalanine228 without loss of interaction with lipids and alveolar type II cells. Honma T, et al. **Biochemistry** 1997 Jun 10; 36(23):7176–84

Effects of protein glycosylation on catalysis: changes in hydrogen tunneling and enthalpy of activation in the glucose oxidase reaction [published erratum appears in Biochemistry 1997 Jun 3;36(22):6854] Kohen A, et al. **Biochemistry** 1997 Mar 4;36(9):2603–11

Recognition of diverse proteins by members of the immunoglobulin superfamily: delineation of the receptor binding site in the human CD6 ligand ALCAM. Skonier JE, et al. **Biochemistry** 1996 Sep 24;35(38):12287–91

Adsorption of pulmonary surfactant protein D to phospholipid monolayers at the air–water interface. Taneva S, et al. **Biochemistry** 1997 Jul 1;36(26):8173–9

Molecular cloning and characterization of EPI–1, the major protein in chimpanzee (Pan troglodytes) cauda epididymal fluid. Fröhlich O, et al. **Biol Reprod** 1996 Apr;54(4):857–64

Molecular cloning and characterization of HE1, a major secretory protein of the human epididymis. Kirchhoff C, et al. **Biol Reprod** 1996 Apr;54(4):847–56

Effect of type III antifreeze protein dilution and mutation on the growth inhibition of ice. DeLuca CI, et al. **Biophys J** 1996 Nov;71(5):2346–55

Analysis of shorthorn sculpin antifreeze protein stereospecific binding to (2–1 0) faces of ice. Wierzbicki A, et al. **Biophys J** 1996 Jul;71(1):8–18

Glycopinion: biological significance and methods for the analysis of complex carbohydrates of recombinant glycoproteins. Raju TS, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):191–4 (23 ref.)

Effect of primary structure modifications in Trypanosoma cruzi neuraminidase/trans–sialidase activities. Cremona ML, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jul; 42(5):697–702

Modulation of protein structure and function by asparagine–linked glycosylation. O'Connor SE, et al. **Chem Biol** 1996 Oct;3(10):803–12 (54 ref.)

The structure and function of surfactant protein–A. McCormack F. **Chest** 1997 Jun;111(6 Suppl):114S–119S (57 ref.)

Identification, purification and analysis of a 55 kDa lectin binding glycoprotein present in breast cancer tissue. Streets AJ, et al. **Clin Chim Acta** 1996 Oct 15;254(1):47–61

Characterization of a dominant antigenic determinant of Par o I encoded by recombinant DNA. D'Abusco AS, et al. **Clin Exp Allergy** 1996 Feb;26(2):223–31

Localization of antigenic sites on Der p 2 using oligonucleotide–directed mutagenesis targeted to predicted surface residues. Smith AM, et al. **Clin Exp Allergy** 1997 May;27(5):593–9

Amino–terminal oxygen–binding functional unit of the Rapana thomasiana grosse (gastropod) hemocyanin: carbohydrate content, monosaccharide composition and amino acid sequence studies. Stoeva S, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 May; 117(1):101–7

The 102 kDa chicken liver acid phosphatase: dimeric structure, glycoprotein nature and immunological properties. Szalewicz A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):293–8

Bone acidic glycoprotein–75 self–associates to form large macromolecular complexes. Gorski JP, et al. **Connect Tissue Res** 1996;35(1–4):137–43 (24 ref.)

Rapid, sensitive sequencing of oligosaccharides from glycoproteins. Rudd PM, et al. **Curr Opin Biotechnol** 1997 Aug;8(4):488–97 (50 ref.)

Characterization of hemolytic and cytotoxic Gallysins: a relationship with arylphorins. Beresford PJ, et al. **Dev Comp Immunol** 1997 May–Jun;21(3):253–66

Characterization of fucosyllactose determinant–bearing glycoproteins probed by a Biomphalaria alexandrina lectin in Schistosoma mansoni cercariae. Negm HI. **Dev Comp Immunol** 1996 Mar–Apr;20(2):87–96

A single amino acid can switch the oligomerization state of the alpha–helical coiled–coil domain of cartilage matrix protein. Beck K, et al. **EMBO J** 1997 Jul 1;16(13):3767–77

Crystal structure of a pair of follistatin–like and EF–hand calcium–binding domains in BM–40. Hohenester E, et al. **EMBO J** 1997 Jul 1;16(13):3778–86

Structural characterisation of human recombinant glycohormones follitropin, lutropin and choriogonadotropin expressed in Chinese hamster ovary cells. Amoresano A, et al. **Eur J Biochem** 1996 Dec 15; 242(3):608–18

Surface plasmon resonance analysis of gp17, a natural CD4 ligand from human seminal plasma inhibiting human immunodeficiency virus type–1 gp120–mediated syncytium formation. Autiero M, et al. **Eur J Biochem** 1997 Apr 1; 245(1):208–13

Dissection of the domain architecture of the alpha2macroglobulin–receptor–associated protein. Ellgaard L, et al. **Eur J Biochem** 1997 Mar 1;244(2):544–51

Glycosylation analysis and protein structure determination of murine fetal antigen 1 (mFA1)—the circulating gene product of the delta–like protein (dlk), preadipocyte factor 1 (Pref–1) and stromal–cell–derived protein 1 (SCP–1) cDNAs. Krogh TN, et al. **Eur J Biochem** 1997 Mar 1; 244(2):334–42

Primary structure of EPV20, a secretory glycoprotein containing a previously uncharacterized type of domain. Larsen LB, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):437–41

The glycosylated matrix protein of Borna disease virus is a tetrameric membrane–bound viral component essential for infection. Stoyloff R, et al. **Eur J Biochem** 1997 May 15;246(1):252–7

Characterization of mouse ALCAM (CD166): the CD6–binding domain is conserved in different homologs and mediates cross–species binding. Bowen MA, et al. **Eur J Immunol** 1997 Jun;27(6):1469–78

Isolation and characterization of heparin– and phosphorylcholine–binding proteins of boar and stallion seminal plasma. Primary structure of porcine pB1. Calvete JJ, et al. **FEBS Lett** 1997 Apr 28;407(2):201–6

Amino acid sequence of a new type of antifreeze protein, from the longhorn sculpin Myoxocephalus octodecimspinosis. Deng G, et al. **FEBS Lett** 1997 Jan 27; 402(1):17–20

Release of alpha–subunit of glycoprotein hormones from the bullfrog pituitary: possible effect of alpha–subunit on prolactin cell function. Oguchi A, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):141–6

Cloning and characterization of rainbow trout (Oncorhynchus mykiss) somatolactin cDNA and its expression in pituitary and nonpituitary tissues. Yang BY, et al. **Gen Comp Endocrinol** 1997 May;106(2):271–80

Structure of the N–linked oligosaccharide of the main diagnostic antigen of the pathogenic fungus Paracoccidioides brasiliensis. Almeida IC, et al. **Glycobiology** 1996 Jul;6(5):507–15

Structural mapping of the glycans from the egg glycoproteins of Schistosoma mansoni and Schistosoma japonicum: identification of novel core structures and terminal sequences. Khoo KH, et al. **Glycobiology** 1997 Jul; 7(5):663–77

Ammonium containing buffers should be avoided during enzymatic release of glycans from glycoproteins when followed by reducing terminal derivatization [letter] Küster

B, et al. **Glycobiology** 1997 Mar;7(2):vii–ix

Novel glycoproteins inhibiting the binding of colorectal cancer cells to E-selectin. Inoue M, et al. **Glycoconj J** 1997 Jan;14(1):147–53

Bacterial glycoproteins. Messner P. **Glycoconj J** 1997 Jan; 14(1):3–11 (114 ref.)

Fractionation and characterization of boar seminal plasma spermadhesion PSP-II glycoforms reveal the presence of uncommon N-acetylgalactosamine-containing N-linked oligosaccharides. Solis D, et al. **Glycoconj J** 1997 Feb; 14(2):275–80

Large scale preparation of PA-oligosaccharides from glycoproteins using an improved extraction method. Tokugawa K, et al. **Glycoconj J** 1996 Aug;13(4):iv

Fucosylated glycoproteins in Chinese hamster metaphase chromosomes. Myllyharju J, et al. **Hereditas** 1996; 125(2–3):285–8

Use of lectin–probes for correlative histochemical and biochemical assessments of the glycosylation patterns of secretory proteins, including kallikreins, in salivary glands and saliva. Garrett JR, et al. **Histol Histopathol** 1996 Apr; 11(2):503–12

Phosphorous carbohydrates on chimeric CD22, CD44 and CD62L. Jönsson G, et al. **Immunol Lett** 1996 Aug; 52(1):31–5

Vibrio mimicus attaches to the intestinal mucosa by outer membrane hemagglutinins specific to polypeptide moieties of glycoproteins. Alam M, et al. **Infect Immun** 1997 Sep; 65(9):3662–5

Presence of Vicia graminea lectin– and Vicia unijuga lectin–binding (Vgu) glycoprotein in human amniotic fluid and some of its chemical and serological properties. Ohyama K, et al. **Int J Biochem Cell Biol** 1997 Mar; 29(3):455–64

The HTLV-I envelope glycoproteins: structure and functions. Delamarre L, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1996;13 Suppl 1:S85–91 (54 ref.)

Structure and function of the recombinant fifth domain of human beta 2–glycoprotein I: effects of specific cleavage between Lys77 and Thr78. Hagihara Y, et al.
J Biochem (Tokyo) 1997 Jan;121(1):128–37

Expression of the 90K immunostimulator gene is controlled by a promoter with unique features. Brakebusch C, et al. **J Biol Chem** 1997 Feb 7;272(6):3674–82

Riboflavin 5'-hydroxymethyl oxidation. Molecular cloning, expression, and glycoprotein nature of the 5'-aldehyde–forming enzyme from Schizophyllum commune. Chen H, et al. **J Biol Chem** 1997 Aug 8; 272(32):20077–81

Autotaxin is an exoenzyme possessing 5'-nucleotide phosphodiesterase/ATP pyrophosphatase and ATPase activities. Clair T, et al. **J Biol Chem** 1997 Jan 10; 272(2):996–1001

Primary structure and expression of matrilin-2, the closest relative of cartilage matrix protein within the von Willebrand factor type A–like module superfamily. Deák F, et al. **J Biol Chem** 1997 Apr 4;272(14):9268–74

A 35-kDa protein is the basic unit of the core from the 2 x 10(4)–kDa aggregation factor responsible for species–specific cell adhesion in the marine sponge Microciona prolifera. Fernàndez–Busquets X, et al.
J Biol Chem 1996 Sep 20;271(38):23558–65

Thermodynamics of lectin–carbohydrate interactions. Binding of the core trimannoside of asparagine–linked carbohydrates and deoxy analogs to concanavalin A. Gupta D, et al. **J Biol Chem** 1997 Mar 7;272(10):6388–92

Haemonchus contortus glycoproteins contain N–linked oligosaccharides with novel highly fucosylated core structures. Haslam SM, et al. **J Biol Chem** 1996 Nov 29; 271(48):30561–70

Structure of the main saccharide chain in the acrosome reaction–inducing substance of the starfish, Asterias amurensis. Koyota S, et al. **J Biol Chem** 1997 Apr 18; 272(16):10372–6

Multiple molecular chaperones complex with misfolded large oligomeric glycoproteins in the endoplasmic reticulum. Kuznetsov G, et al. **J Biol Chem** 1997 Jan 31;272(5):3057–63

Identification and cloning of human placental bikunin, a novel serine protease inhibitor containing two Kunitz domains. Marlor CW, et al. **J Biol Chem** 1997 May 2; 272(18):12202–8

The carbohydrate moiety of the bermuda grass antigen BG60. New oligosaccharides of plant origin. Ohsuga H, et al.
J Biol Chem 1996 Oct 25;271(43):26653–8

Bone acidic glycoprotein–75 self–associates to form macromolecular complexes in vitro and in vivo with the potential to sequester phosphate ions. Gorski JP, et al.
J Cell Biochem 1997 Mar 15;64(4):547–64

Membrane topology of the high–affinity L–glutamate transporter (GLAST–1) of the central nervous system. Wahle S, et al. **J Cell Biol** 1996 Dec;135(6 Pt 2):1867–77

Separation of enantiomers on a chiral stationary phase based on ovoglycoprotein. I. Influences of the pore size of base silica materials and bound protein amounts on chiral resolution. Haginaka J, et al. **J Chromatogr A** 1997 Jun 27;773(1–2):85–91

Possible role of hepatic bile mucus glycoprotein in development of intrahepatic gallstones. Akaishi S, et al.
J Gastroenterol 1995 Dec;30(6):758–63

Two–dimensional paracrystalline glycoprotein S–layers as a novel matrix for the immobilization of human IgG and their use as microparticles in immunoassays. Küpcü S, et al.
J Immunol Methods 1996 Sep 13;196(1):73–84

Characterization of the carbohydrate structures of apolipoprotein H through concanavalin A affinity chromatography. Gambino R, et al.
J Lipid Mediat Cell Signal 1997 May;16(1):11–21

Matrix–assisted laser desorption/ionization mass spectrometric peptide mapping of the neural cell adhesion protein neurolin purified by sodium dodecyl sulfate polyacrylamide gel electrophoresis or acidic precipitation. Kussmann M, et al. **J Mass Spectrom** 1997 May; 32(5):483–93

Does matrix–assisted laser desorption/ionization mass spectrometry allow analysis of carbohydrate heterogeneity in glycoproteins? A study of natural human interferon–gamma. Mørtz E, et al. **J Mass Spectrom** 1996 Oct;31(10):1109–18

Dystrophin–glycoprotein complex purified from hamster cardiac muscle. Comparison of the complexes from cardiac and skeletal muscles of hamster and rabbit. Iwata Y, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2501–9

Computational sequence analysis of the tissue inhibitor of metalloproteinase family. Douglas DA, et al.
J Protein Chem 1997 May;16(4):237–55 (88 ref.)

Qualitative analysis of the carbohydrate composition of apolipoprotein H. Gambino R, et al. **J Protein Chem** 1997 Apr;16(3):205–12

Purification and characterization of cathepsin D from normal human breast tissue. Wright LM, et al. **J Protein Chem** 1997 Apr;16(3):171–81

Folding of rabies virus glycoprotein: epitope acquisition and interaction with endoplasmic reticulum chaperones. Gaudin Y. **J Virol** 1997 May;71(5):3742–50

Glycoprotein H–related complexes of human cytomegalovirus: identification of a third protein in the gCIII complex. Li L, et al. **J Virol** 1997 Apr;71(4):3090–7

Biochemical and functional analysis of the Borna disease virus G protein. Schneider PA, et al. **J Virol** 1997 Jan;71(1):331–6

High glomerular permeability of bikunin despite similarity in charge and hydrodynamic size to serum albumin. Lindström KE, et al. **Kidney Int** 1997 Apr;51(4):1053–8

The CUB domains of procollagen C–proteinase enhancer control collagen assembly solely by their effect on procollagen C–proteinase/bone morphogenetic protein-1. Hulmes DJ, et al. **Matrix Biol** 1997 Apr;16(1):41–5

Reversed–phase peptide mapping of glycoproteins using liquid chromatography/electrospray ionization–mass spectrometry. Hancock WS, et al. **Methods Enzymol** 1996; 271:403–27 (34 ref.)

Fast–atom bombardment and electrospray mass spectrometry of peptides, proteins, and glycoproteins. Greer FM, et al.
Methods Mol Biol 1997;64:147–63

Identification of sites of glycosylation. Sutton CW, et al.
Methods Mol Biol 1997;64:307–15

Preparation of glycopeptides. Sutton CW, et al.
Methods Mol Biol 1997;64:73–9

Characterisation of the phosphorylcholine–containing N–linked oligosaccharides in the excretory–secretory 62 kDa glycoprotein of Acanthocheilonema viteae. Haslam SM, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):53–66

Trichinella pseudospiralis secretes a protein related to the Trichinella spiralis 43–kDa glycoprotein. Vassilatis DK, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):25–31

Neuregulins in development. Lemke G.
Mol Cell Neurosci 1996 Apr;7(4):247–62 (102 ref.)

Mechanism of inhibition of the human matrix metalloproteinase stromelysin–1 by TIMP–1. Gomis–Rüth FX, et al. **Nature** 1997 Sep 4;389(6646):77–81

How to find, identify and quantitate the sugars on proteins. Gooley AA, et al. **Nature** 1997 Feb 6;385(6616):557–9

Structural basis for the binding of a globular antifreeze protein to ice [published erratum appears in Nature 1997 Feb 6;385(6616):555] Jia Z, et al. **Nature** 1996 Nov 21; 384(6606):285–8

O-GLYCBASE version 2.0: a revised database of O–glycosylated proteins. Hansen JE, et al.
Nucleic Acids Res 1997 Jan 1;25(1):278–82

Characterization of a tobacco extensin gene and regulation of its gene family in healthy plants and under various stress conditions. Hirsinger C, et al. **Plant Mol Biol** 1997 Jan; 33(2):279–89

The epitopes for some antiphospholipid antibodies are adducts of oxidized phospholipid and beta2 glycoprotein 1 (and other proteins). Hörkkö S, et al.
Proc Natl Acad Sci U S A 1997 Sep 16;94(19):10356–61

Conformational influences of glycosylation of a peptide: a possible model for the effect of glycosylation on the rate of protein folding. Live DH, et al.
Proc Natl Acad Sci U S A 1996 Nov 12;93(23):12759–61

The solution structure of the N–terminal domain of alpha2–macroglobulin receptor–associated protein. Nielsen PR, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8; 94(14):7521–5

Biochemical characterization and crystalization of human Zn–alpha2–glycoprotein, a soluble class I major histocompatibility complex homolog. Sánchez LM, et al.
Proc Natl Acad Sci U S A 1997 Apr 29;94(9):4626–30

Characterisation of the rat acid–labile subunit gene. Delhanty PJ, et al. **Prog Growth Factor Res** 1995;6(2–4):141–9

Complementarity determining region residues aspartic acid at H55, serine at H95 and tyrosines at H97 and L96 play important roles in the B72.3 antibody–TAG72 antigen interaction. Xiang J, et al. **Protein Eng** 1996 Jun;9(6):539–43

A natural variant of type I antifreeze protein with four ice–binding repeats is a particularly potent antifreeze. Chao H, et al. **Protein Sci** 1996 Jun;5(6):1150–6

My interests in protein and glycoprotein chemistry. Neuberger A. **Protein Sci** 1997 May;6(5):1119–21

Heteronuclear NMR assignments and secondary structure of the coiled coil trimerization domain from cartilage matrix protein in oxidized and reduced forms. Wiltscheck R, et al. **Protein Sci** 1997 Aug;6(8):1734–45

Matrix performance in matrix–assisted laser desorption/ionization for molecular weight determination in sialyl and non–sialyl oligosaccharide proteins. Sottani C, et al. **Rapid Commun Mass Spectrom** 1997;11(8):907–13

Structure of a murine leukemia virus receptor–binding glycoprotein at 2.0 angstrom resolution. Fass D, et al.
Science 1997 Sep 12;277(5332):1662–6

The crystal structures of Sinapis alba myrosinase and a covalent glycosyl–enzyme intermediate provide insights into the substrate recognition and active–site machinery of an S–glycosidase. Burmeister WP, et al. **Structure** 1997 May 15;5(5):663–75

Refined solution structure of type III antifreeze protein: hydrophobic groups may be involved in the energetics of the protein–ice interaction. Sönnichsen FD, et al.
Structure 1996 Nov 15;4(11):1325–37

An easy high–performance liquid chromatography quantification of monosaccharides from ileal mucosal tissue glycoproteins in pigs. Ronchetti F, et al.
Transplant Proc 1997 May;29(3):1838–9

Removal of xenoreactive human anti–pig antibodies by absorption on recombinant mucin–containing glycoproteins carrying the Gal alpha1,3Gal epitope. Liu J, et al.
Transplantation 1997 Jun 15;63(11):1673–82

Identification and characterization of a sixth structural protein of Lelystad virus: the glycoprotein GP2 encoded by ORF2 is incorporated in virus particles. Meulenberg JJ, et al. **Virology** 1996 Nov 1;225(1):44–51

[Antifreeze glycoproteins in fishes: structure, mode of action and possible applications] Wöhrmann A. **Tierarztl Prax** 1996 Feb;24(1):1–9 (72 ref.) (Eng. Abstr.) **(Ger)**

[Crystallization of aqueous solutions of cryoprotectors from Atlantic cod and lake Gammarus] Andreev AA, et al.
Biofizika 1996 Nov–Dec;41(6):1294–7 (Eng. Abstr.) **(Rus)**

[Nucleoside diphosphate kinase from bovine retina is a glycoprotein] Karashchuk GN, et al. **Bioorg Khim** 1996 Jun;22(6):472–3 (Eng. Abstr.) **(Rus)**

DEFICIENCY

Model SV40–transformed fibroblast lines for metabolic studies of human prosaposin and acid ceramidase deficiencies. Chatelut M, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):61–76

Apolipoprotein J deficiency in types I and IV carbohydrate–deficient glycoprotein syndrome (glycanosis CDG) [letter] Heyne K, et al. **Eur J Pediatr** 1997 Mar; 156(3):247–8

Microheterogeneity of serum glycoproteins and their liver precursors in patients with carbohydrate–deficient glycoprotein syndrome type I: apparent deficiencies in clusterin and serum amyloid P [see comments] Henry H, et al. **J Lab Clin Med** 1997 Apr;129(4):412–21. Comment in: J Lab Clin Med 1997 Apr;129(4):394–5.

[Abnormality of HDL subfractions in cholesteryl ester transfer protein deficiency] Miida T, et al. **Rinsho Byori** 1996 Sep;44(9):865–70 (Eng. Abstr.) **(Jpn)**

DIAGNOSTIC USE

Nasal response to allergen challenge in patients with immediate asthmatic reaction. Palczynski C, et al.
Allergol Immunopathol (Madr) 1996 Jul–Aug;24(4):163–8

New endoscopic treatment for chronic pancreatitis, using contrast media containing ulinastatin and prednisolone. Ohwada M, et al. **J Gastroenterol** 1997 Apr;32(2):216–21

[Nasal eosinophilia after specific provocation in patients with perennial allergic rhinitis] Gamboa Vargas YG, et al.
Rev Alerg Mex 1996 Jul–Aug;43(4):96–9 (Eng. Abstr.) **(Spa)**

[Nasal provocation tests: dose–response relationship during D. pteronyssinus challenge] Olivé Pérez A, et al.
Rev Alerg Mex 1996 May–Jun;43(3):52–5 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Chelerythrine, a protein kinase C inhibitor, interacts with cyclic nucleotide phosphodiesterases. Eckly–Michel AE, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):85–8

The effectiveness of Allerpet/c in reducing the cat allergen Fel d 1 [see comments] Perzanowski MS, et al.
J Allergy Clin Immunol 1997 Sep;100(3):428–30. Comment in: J Allergy Clin Immunol 1997 Sep;100(3):290–2.

Contrasting modes of action of methylglutamate derivatives on the excitatory amino acid transporters, EAAT1 and EAAT2. Vandenberg RJ, et al. **Mol Pharmacol** 1997 May; 51(5):809–15

Regional and temporal modulation of brain glycoprotein synthesis by corticosterone. Venero C, et al.
Neuroreport 1996 Nov 4;7(15–17):2819–22

[Activity of endogenous anticoagulants (antithrombin III, protein C and protein S) in women after menopause treated

with hormone replacement therapy (transdermal 17 beta-OH estradiol and oral medroxyprogesterone acetate)] Ciepluch R, et al. **Ginekol Pol** 1996 Aug;67(8):407-10 (Eng. Abstr.) **(Pol)**

GENETICS

Effect of ethanol on gastric mucus glycoprotein synthesis, translocation, transport, glycosylation, and secretion. Slomiany A, et al. **Alcohol Clin Exp Res** 1997 May; 21(3):417-23

Exclusion of linkage between schizophrenia and the gene encoding a neutral amino acid glutamate/aspartate transporter, SLC1A5. Chen AC, et al. **Am J Med Genet** 1997 Feb 21;74(1):50-2

Tissue inhibitor of metalloproteinase-1 and -2 RNA expression in rat and human liver fibrosis. Herbst H, et al. **Am J Pathol** 1997 May;150(5):1647-59

Regulation of surfactant protein D in human fetal lung. Dulkerian SJ, et al. **Am J Respir Cell Mol Biol** 1996 Dec; 15(6):781-6

The glycoprotein precursor gene of the attenuated Junin virus vaccine strain (Candid #1). Ghiringhelli PD, et al. **Am J Trop Med Hyg** 1997 Feb;56(2):216-25

Site-directed mutagenesis of recombinant human beta 2-glycoprotein I. Effect of phospholipid binding and anticardiolipin antibody activity. Sheng Y, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:331-3

Expression of the BE-20 epididymal protein gene: in situ hybridization. Xu WD, et al. **Arch Androl** 1997 Jan-Feb; 38(1):1-6

The EGF receptor binding of recombinant heregulinbeta1/EGF hybrids is blocked by heregulin residue glutamate 195. Chau BN, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):882-6

Phosphorylation can modulate the association of different sets of RNA binding proteins with the Vg1 localization signal RNA. Chen SM, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):419-23

Sequence of a cDNA clone encoding a novel somatolactin in goldfish, Carassius auratus. Cheng KW, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):282-7

The cloning and expression of the baboon acid-labile subunit of the insulin-like growth factor binding protein complex. Delhanty P, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):897-902

Identification and characterization of a novel monocyte/macrophage differentiation-dependent gene that is responsive to lipopolysaccharide, ceramide, and lysophosphatidylcholine. Pietzsch A, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):4-9

Treatment of fibroblast-like synoviocytes with IFN-gamma results in the down-regulation of autotaxin mRNA. Santos AN, et al. **Biochem Biophys Res Commun** 1996 Dec 13; 229(2):419-24

Germin. Molecular cloning of cDNA that selects germin mRNA from bulk wheat mRNA. Rahman S, et al. **Biochem Cell Biol** 1988 Feb;66(2):100-6

Transcriptional activity of the human tissue inhibitor of metalloproteinases 1 (TIMP-1) gene in fibroblasts involves elements in the promoter, exon 1 and intron 1. Clark IM, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):611-7

Effect of genotype on the levels of surfactant protein A mRNA and on the SP-A2 splice variants in adult humans. Karinch AM, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):39-47

The Factor I and follistatin domain families: the return of a prodigal son [letter] Ullman CG, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):939-41

Cystatin-like domain of mouse countertrypin, a member of mammalian fetuin family, is responsible for the inhibition of trypsin. Evidence from site-directed mutagenesis. Yoshida K, et al. **Biochem Mol Biol Int** 1996 Aug; 39(5):1023-8

Complete amino-acid sequence of the beta-subunit of VTX from venom of the stonefish (Synanceia verrucosa) as identified from cDNA cloning experiments. Garnier P, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):1-5

Ovarian activin receptor subtype and follistatin gene expression in rats: reciprocal regulation by gonadotropins. Aloi JA, et al. **Biol Reprod** 1997 Jun;56(6):1565-9

Apolipoprotein J/clusterin expression defines distinct stages of blastocyst implantation in the mouse uterus. Brown TL, et al. **Biol Reprod** 1996 Oct;55(4):740-7

Expression of tissue inhibitor of metalloproteinase-1 protein and messenger ribonucleic acid by the oviduct of cyclic, early-pregnant, and ovariectomized steroid-treated gilts. Buhi WC, et al. **Biol Reprod** 1997 Jul;57(1):7-15

Molecular cloning and characterization of an estrogen-dependent porcine oviductal secretory glycoprotein. Buhi WC, et al. **Biol Reprod** 1996 Dec; 55(6):1305-14

Modulation of clusterin gene expression in the rat mammary gland during pregnancy, lactation, and involution. French LE, et al. **Biol Reprod** 1996 Dec;55(6):1213-20

Regional distribution and hormonal control of estrogen-dependent oviduct-specific glycoprotein messenger ribonucleic acid in the baboon (Papio anubis). Jaffe RC, et al. **Biol Reprod** 1996 Aug;55(2):421-6

In situ localization of messenger ribonucleic acid for an oviduct-specific glycoprotein during various hormonal conditions in the golden hamster. Komiya H, et al. **Biol Reprod** 1996 Nov;55(5):1107-18

Expression of follistatin and inhibin/activin subunit genes in porcine follicles. Li MD, et al. **Biol Reprod** 1997 Jul; 57(1):112-8

Assessment of the role of tissue inhibitor of metalloproteinase-1 (TIMP-1) during the periovulatory period in female mice lacking a functional TIMP-1 gene. Nothnick WB, et al. **Biol Reprod** 1997 May;56(5):1181-8

The production of recombinant glycoproteins with special reference to simple eukaryotes including Dictyostelium discoideum. Jung E, et al. **Biotechnol Appl Biochem** 1997 Feb;25 (Pt 1):3-8 (71 ref.)

Altered tumor growth and metastasis of a T-cell lymphoma in Timp-1 transgenic mice. Krüger A, et al. **Blood** 1997 Sep 1;90(5):1993-2000

Clinical significance of tissue inhibitor of metalloproteinase expression in gastric carcinoma. Mimori K, et al. **Br J Cancer** 1997;76(4):531-6

Changes in glutamate/aspartate transporter (GLAST/GluT-1) mRNA expression following facial nerve transection. Yamashita T, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):294-9

Expression and transcriptional regulation of the PD-1alpha/autotaxin gene in neuroblastoma. Kawagoe H, et al. **Cancer Res** 1997 Jun 15;57(12):2516-21

Asbestos promotes morphological transformation and elevates expression of a gene family invariably induced by tumor promoters in C3H/10T1/2 cells. Parfett CL, et al. **Carcinogenesis** 1996 Dec;17(12):2719-26

Induction of ductal morphogenesis and lobular hyperplasia by amphiregulin in the mouse mammary gland. Kenney NJ, et al. **Cell Growth Differ** 1996 Dec;7(12):1769-81

Transfer and expression of neutrophil inhibitory factor gene in endothelial and epithelial cells prevent neutrophil adhesion. Jaffe HA, et al. **Chest** 1997 Jun;111(6 Suppl):94S-95S

Model SV40-transformed fibroblast lines for metabolic studies of human prosaposin and acid ceramidase deficiencies. Chatelut M, et al. **Clin Chim Acta** 1997 Jun 27;262(1-2):61-76

Cloning and sequencing of the group 6 allergen of Dermatophagoides pteronyssinus. Bennett BJ, et al. **Clin Exp Allergy** 1996 Oct;26(10):1150-4

Analysis of sequence polymorphism of a major mite allergen, Der p 2. Chua KY, et al. **Clin Exp Allergy** 1996 Jul; 26(7):829-37

IgE and monoclonal antibody binding by the mite allergen Der p 7. Shen HD, et al. **Clin Exp Allergy** 1996 Mar; 26(3):308-15

Sequence polymorphisms of the Der p 3 house dust mite allergen. Smith WA, et al. **Clin Exp Allergy** 1996 May; 26(5):571-9

In situ hybridization studies of metalloproteinases 2 and 9 and TIMP-1 and TIMP-2 expression in human prostate cancer. Wood M, et al. **Clin Exp Metastasis** 1997 May; 15(3):246-58

Transcriptional control of matrix metalloproteinases and the tissue inhibitors of matrix metalloproteinases. Borden P, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1-2):159-78 (150 ref.)

Early developmental expression and experimental axis determination by the chicken Vg1 gene. Seleiro EA, et al. **Curr Biol** 1996 Nov 1;6(11):1476-86

Novel gene families involved in neural pathfinding. Müller BK, et al. **Curr Opin Genet Dev** 1996 Aug;6(4):469-74 (61 ref.)

The expression and regulation of follistatin and a follistatin-like gene during avian somite compartmentalization and myogenesis. Amthor H, et al. **Dev Biol** 1996 Sep 15;178(2):343-62

Cloning and early dorsal axial expression of Flik, a chick follistatin-related gene: evidence for involvement in dorsalization/neural induction. Patel K, et al. **Dev Biol** 1996 Sep 15;178(2):327-42

Proteoglycans are required for maintenance of Wnt-11 expression in the ureter tips. Kispert A, et al. **Development** 1996 Nov;122(11):3627-37

Cloning of the cDNA encoding mouse PP5/TFPI-2 and mapping of the gene to chromosome 6. Miyagi Y, et al. **DNA Cell Biol** 1996 Nov;15(11):947-54

The mouse prosaposin locus: promoter organization. Sun Y, et al. **DNA Cell Biol** 1997 Jan;16(1):23-34

Sequence of a human cDNA encoding Cab45, a Ca2+-binding protein with six EF-hand motifs. Koivu T, et al. **DNA Seq** 1997;7(3-4):217-20

Glycoproteins in human parotid saliva assessed by lectin probes after resolution by sodium dodecyl sulphate-polyacrylamide gel electrophoresis. Carpenter GH, et al. **Electrophoresis** 1996 Jan;17(1):91-7

Endoderm induction by the organizer-secreted factors chordin and noggin in Xenopus animal caps. Sasai Y, et al. **EMBO J** 1996 Sep 2;15(17):4547-55

Pituitary follistatin and inhibin subunit messenger ribonucleic acid levels are differentially regulated by local and hormonal factors. Bilezikjian LM, et al. **Endocrinology** 1996 Oct;137(10):4277-84

Evidence that pituitary adenylate cyclase activating polypeptide suppresses follicle-stimulating hormone-beta messenger ribonucleic acid levels by stimulating follistatin gene transcription. Winters SJ, et al. **Endocrinology** 1997 Oct;138(10):4324-9

Human monocytes express amphiregulin and heregulin growth factors upon activation. Mograbi B, et al. **Eur Cytokine Netw** 1997 Mar;8(1):73-81

The role of CCAAT/enhancer-binding protein alpha and a protein that binds to the activator-protein-1 site in the regulation of liver-specific expression of the winter flounder antifreeze protein gene. Chan SL, et al. **Eur J Biochem** 1997 Jul 1;247(1):44-51

Oncostatin M differentially regulates tissue inhibitors of metalloproteinases TIMP-1 and TIMP-3 gene expression in human synovial lining cells. Gatsios P, et al. **Eur J Biochem** 1996 Oct 1;241(1):56-63

Glycosylation analysis and protein structure determination of murine fetal antigen 1 (mFA1)--the circulating gene product of the delta-like protein (dlk), preadipocyte factor 1 (Pref-1) and stromal-cell-derived protein 1 (SCP-1) cDNAs. Krogh TN, et al. **Eur J Biochem** 1997 Mar 1; 244(2):334-42

Primary structure of EPV20, a secretory glycoprotein containing a previously uncharacterized type of domain. Larsen LB, et al. **Eur J Biochem** 1997 Jan 15; 243(1-2):437-41

Regulation of the wound-induced myrosinase-associated protein transcript in Brassica napus plants. Taipalensuu J, et al. **Eur J Biochem** 1997 Aug 1;247(3):963-71

Oligomerization supports transport of a mutant secretory protein out of the endoplasmic reticulum. Losch A, et al. **Eur J Cell Biol** 1996 Feb;69(2):107-15

MUCLIN expression in the cystic fibrosis transmembrane conductance regulator knockout mouse. De Lisle RC, et al. **Gastroenterology** 1997 Aug;113(2):521-32

Cloning and expression of somatolactin, a pituitary hormone related to growth hormone and prolactin from gilthead seabream, Sparus aurata. Astola A, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):330-6

cDNA cloning of eel (Anguilla anguilla) somatolactin. May D, et al. **Gene** 1997 Mar 25;188(1):63-7

Highly conserved 5'-flanking regions of two self-incompatibility genes, SLG9 and SRK9. Suzuki G, et al. **Gene** 1997 May 20;191(1):123-6

Regulation of an eukaryotic initiation factor-2 (eIF-2) associated 67 kDa glycoprotein (p67) and its requirement in protein synthesis. Gupta S, et al. **Gene Expr** 1995; 5(2):113-22

Role of the composite glucocorticoid response element in proliferin gene expression. Hoeppner MA, et al. **Gene Expr** 1995;5(2):133-41

The SLGs corresponding to the same S24-haplotype are perfectly conserved in three different self-incompatible Brassica campestris L. Matsushita M, et al. **Genes Genet Syst** 1996 Aug;71(4):255-8

The genomic structure of the human Charcot-Leyden crystal protein gene is analogous to those of the galectin genes. Dyer KD, et al. **Genomics** 1997 Mar 1;40(2):217-21

Astrotactin (ASTN), a gene for glial-guided neuronal migration, maps to human chromosome 1q25.2. Fink JM, et al. **Genomics** 1997 Feb 15;40(1):202-5

The gene organization, chromosome location, and expression of a 55-kDa matrix protein (PRELP) of human articular cartilage. Grover J, et al. **Genomics** 1996 Dec 1; 38(2):109-17

Characterization of the cDNA and gene encoding human PDE3B, the cGIP1 isoform of the human cyclic GMP-inhibited cyclic nucleotide phosphodiesterase family. Miki T, et al. **Genomics** 1996 Sep 15;36(3):476-85

Molecular characterization of the gene for human cartilage gp-39 (CHI3L1), a member of the chitinase protein family and marker for late stages of macrophage differentiation. Rehli M, et al. **Genomics** 1997 Jul 15;43(2):221-5

Cloning and characterization of the gene encoding the mouse beta 2-glycoprotein I. Sheng Y, et al. **Genomics** 1997 Apr 1;41(1):128-30

Mammalian Rh/T2/S-glycoprotein ribonuclease family genes: cloning of a human member located in a region of chromosome 6 (6q27) frequently deleted in human malignancies. Trubia M, et al. **Genomics** 1997 Jun 1; 42(2):342-4

Genetic fine localization of the beta-glucocerebrosidase (GBA) and prosaposin (PSAP) genes: implications for Gaucher disease. Cormand B, et al. **Hum Genet** 1997 Jul; 100(1):75-9

Molecular basis of the apolipoprotein H (beta 2-glycoprotein I) protein polymorphism. Sanghera DK, et al. **Hum Genet** 1997 Jul;100(1):57-62

Targeted disruption of the mouse sphingolipid activator protein gene: a complex phenotype, including severe leukodystrophy and wide-spread storage of multiple sphingolipids. Fujita N, et al. **Hum Mol Genet** 1996 Jun; 5(6):711-25

Identification of structural mutations in the fifth domain of apolipoprotein H (beta 2-glycoprotein I) which affect phospholipid binding. Sanghera DK, et al. **Hum Mol Genet** 1997 Feb;6(2):311-6

Expression of tissue inhibitor of metalloproteinase-1 and type IV collagenase/gelatinase messenger RNAs in human breast cancer. Lindsay CK, et al. **Hum Pathol** 1997 Mar; 28(3):359-66

Isolation from a human seminal vesicle library of the cDNA for gp17, a CD4 binding factor. Autiero M, et al. **Immunogenetics** 1997;46(4):345-8

Gene expression of zinc-alpha 2-glycoprotein in normal human epidermal and buccal epithelia. Brysk MM, et al. **In Vivo** 1997 May-Jun;11(3):271-4

Possible role of calcium dependent protein phosphorylation in the modulation of wound induced HRGP gene activation

in potatoes after gamma irradiation. Ussuf KK, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):484–90

Characterization of the Aspergillus nidulans aspnd1 gene demonstrates that the ASPND1 antigen, which it encodes, and several Aspergillus fumigatus immunodominant antigens belong to the same family. Calera JA, et al. **Infect Immun** 1997 Apr;65(4):1335–44

Functional effects of polymorphisms of house dust mite allergens. Thomas WR, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):96–8

Genomic organization and polymorphisms of the major house dust mite allergen Der f2. Yuuki T, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):44–8

Immunologic characterization and functional properties of murine antibodies raised against deleted mutants of human beta 2–glycoprotein I. George J, et al. **Int Immunol** 1997 Jun;9(6):913–21

Inhibition of specific IgE response in vivo by allergen–gene transfer. Hsu CH, et al. **Int Immunol** 1996 Sep;8(9):1405–11

Amphiregulin antisense oligonucleotide inhibits the growth of T3M4 human pancreatic cancer cells and sensitizes the cells to EGF receptor–targeted therapy. Funatomi H, et al. **Int J Cancer** 1997 Jul 29;72(3):512–7

In situ detection of PCR–amplified metalloproteinase cDNAs, their inhibitors and human papillomavirus transcripts in cervical carcinoma cell lines. Nuovo GJ. **Int J Cancer** 1997 Jun 11;71(6):1056–60

Genomic organization of the human TIMP–1 gene. Investigation of a causative role in the pathogenesis of X–linked retinitis pigmentosa 2. Hardcastle AJ, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1893–6

Thrombin increases clusterin mRNA in glomerular epithelial and mesangial cells. Laping NJ, et al. **J Am Soc Nephrol** 1997 Jun;8(6):906–14

The effects of spinal cord injury on the status of messenger ribonucleic acid for TRPM 2 and androgen receptor in the prostate of the rat. Huang HF, et al. **J Androl** 1997 May–Jun;18(3):250–6

Molecular cloning and sequencing of cDNA encoding plasma countertrypin, a member of mammalian fetuin family, from the Mongolian gerbil, Meriones unguiculatus. Goto K, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):619–25

Expression of inter–alpha–trypsin inhibitor light chain (bikunin) in human pancreas. Itoh H, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):271–5

Isolation and characterization of the human inter–alpha–trypsin inhibitor family heavy chain–related protein (IHRP) gene (ITIHL1). Saguchi K, et al. **J Biochem (Tokyo)** 1996 May;119(5):898–905

Limulus intracellular coagulation inhibitor type 3. Purification, characterization, cDNA cloning, and tissue localization. Agarwala KL, et al. **J Biol Chem** 1996 Sep 27;271(39):23768–74

Cloning and characterization of the promoter region of a gene encoding a 67–kDa glycoprotein. Chatterjee N, et al. **J Biol Chem** 1997 May 9;272(19):12692–8

Expression of a 74–kDa nuclear factor 1 (NF1) protein is induced in mouse mammary gland involution. Involution–enhanced occupation of a twin NF1 binding element in the testosterone–repressed prostate message–2/clusterin promoter. Furlong EEM, et al. **J Biol Chem** 1996 Nov 22;271(47):29688–97

Molecular cloning and characterization of human tissue inhibitor of metalloproteinase 4. Greene J, et al. **J Biol Chem** 1996 Nov 29;271(48):30375–80

cDNA cloning and sequencing reveal the major horse allergen Equ c1 to be a glycoprotein member of the lipocalin superfamily. Gregoire C, et al. **J Biol Chem** 1996 Dec 20;271(51):32951–9

p67 transcription regulates translation in serum–starved and mitogen–activated KRC–7 cells. Gupta S, et al. **J Biol Chem** 1997 May 9;272(19):12699–704

Mutational study of the amino–terminal domain of human tissue inhibitor of metalloproteinases 1 (TIMP–1) locates an inhibitory region for matrix metalloproteinases. Huang W, et al. **J Biol Chem** 1997 Aug 29;272(35):22086–91

The mitogen–activated protein kinase and JAK–STAT signaling pathways are required for an oncostatin M–responsive element–mediated activation of matrix metalloproteinase 1 gene expression. Korzus E, et al. **J Biol Chem** 1997 Jan 10;272(2):1188–96

mRNA expression of matrix metalloproteinases and tissue inhibitors of metalloproteinase in interface tissue around implants in loosening total hip arthroplasty. Ishiguro N, et al. **J Biomed Mater Res** 1996 Dec;32(4):611–7

Differential gene expression of extracellular matrix components in dilated cardiomyopathy. Tyagi SC, et al. **J Cell Biochem** 1996 Nov 1;63(2):185–98

Rescue of mammary epithelial cell apoptosis and entactin degradation by a tissue inhibitor of metalloproteinases–1 transgene. Alexander CM, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1669–77

Clusterin/ApoJ expression is associated with neuronal apoptosis in the olfactory mucosa of the adult mouse. Michel D, et al. **J Cell Sci** 1997 Jul;110 (Pt 14):1635–45

Anatomy of rat semaphorin III/collapsin–1 mRNA expression and relationship to developing nerve tracts during neuroembryogenesis. Giger RJ, et al. **J Comp Neurol** 1996 Nov 18;375(3):378–92

Genetic diversity of the attachment (H) protein gene of current field isolates of canine distemper virus. Bolt G, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):367–72

Three major alleles of rotavirus NSP4 proteins identified by sequence analysis. Horie Y, et al. **J Gen Virol** 1997 Sep; 78 (Pt 9):2341–6

Mapping the neutralizing epitopes on the glycoprotein of infectious haematopoietic necrosis virus, a fish rhabdovirus. Huang C, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3033–40

Molecular and phylogenetic analyses of the haemagglutinin (H) proteins of field isolates of canine distemper virus from naturally infected dogs. Iwatsuki K, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):373–80

Bovine interleukins 2 and 4 expressed in recombinant bovine herpesvirus 1 are biologically active secreted glycoproteins. Kühnle G, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2231–40

Nucleotide sequence of the glycoprotein gene of viral haemorrhagic septicaemia (VHS) viruses from different geographical areas: a link between VHS in farmed fish species and viruses isolated from North Sea cod (Gadus morhua L.). Stone DM, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1319–26

Location of the self–incompatibility locus in an RFLP and RAPD map of Brassica oleracea. Camargo LE, et al. **J Hered** 1997 Jan–Feb;88(1):57–60

RNAse protection assays for the simultaneous and semiquantitative analysis of multiple murine matrix metalloproteinase (MMP) and MMP inhibitor mRNAs. Pagenstecher A, et al. **J Immunol Methods** 1997 Aug 7; 206(1–2):1–9

Sequence analysis of NSP4 gene of human rotavirus allows classification into two main genetic groups. Cunliffe NA, et al. **J Med Virol** 1997 Sep;53(1):41–50

Analysis of the rat clusterin gene promoter and cyclic AMP–regulated mRNA stability in testicular cells. Rosemblit N, et al. **J Mol Endocrinol** 1996 Jun;16(3):287–96

Neuronal development in the Drosophila compound eye: photoreceptor cells R1, R6, and R7 fail to differentiate in the retina aberrant in pattern (rap) mutant. Karpilow JM, et al. **J Neurobiol** 1996 Oct;31(2):149–65

Mutation of the central nervous system neuroblast proliferation repressor ana leads to defects in larval olfactory behavior. Park Y, et al. **J Neurobiol** 1997 Aug; 33(2):199–211

Rin, a neuron–specific and calmodulin–binding small G–protein, and Rit define a novel subfamily of ras proteins. Lee CHJ, et al. **J Neurosci** 1996 Nov 1;16(21):6784–94

Tissue inhibitor of metalloproteinases–1 (TIMP–1) is differentially induced in neurons and astrocytes after seizures: evidence for developmental, immediate early gene, and lesion response. Rivera S, et al. **J Neurosci** 1997 Jun 1;17(11):4223–35

Mouse fetal antigen 1 (mFA1), the circulating gene product of mdlk, pref–1 and SCP–1: isolation, characterization and biology. Bachmann E, et al. **J Reprod Fertil** 1996 Jul; 107(2):279–85

Expression of mRNA encoding decidualization–associated protein, a variant of acute–phase alpha 2 macroglobulin, by rat uterine tissues during pregnancy and pseudopregnancy. da Silva GC, et al. **J Reprod Fertil** 1996 Nov;108(2):289–98

Effects of intermittent androgen suppression on the stem cell composition and the expression of the TRPM–2 (clusterin) gene in the Shionogi carcinoma. Akakura K, et al. **J Steroid Biochem Mol Biol** 1996 Dec;59(5–6):501–11

Changes in levels of mRNAs of transforming growth factor (TGF)–beta1, –beta2, –beta3, TGF–beta type II receptor and sulfated glycoprotein–2 during apoptosis of mouse uterine epithelium. Wada K, et al. **J Steroid Biochem Mol Biol** 1996 Dec;59(5–6):367–75

Marek's disease virus serotype 2 glycoprotein I gene: nucleotide sequence and expression by a recombinant baculovirus. Jang HK, et al. **J Vet Med Sci** 1996 Nov; 58(11):1057–66

A single amino acid change in the glycoprotein of lymphocytic choriomeningitis virus is associated with the ability to cause growth hormone deficiency syndrome. Teng MN, et al. **J Virol** 1996 Dec;70(12):8438–43

The A34R glycoprotein gene is required for induction of specialized actin–containing microvilli and efficient cell–to–cell transmission of vaccinia virus. Wolffe EJ, et al. **J Virol** 1997 May;71(5):3904–15

The design of strain–specific polymerase chain reactions for discrimination of the racoon rabies virus strain from indigenous rabies viruses of Ontario [published erratum appears in J Virol Methods 1996 Apr 26;58(1–2):209] Nadin–Davis SA, et al. **J Virol Methods** 1996 Mar; 57(1):1–14

In situ hybridization studies of matrix metalloproteinase–3, tissue inhibitor of metalloproteinase–1 and type IV collagen in diabetic nephropathy. Suzuki D, et al. **Kidney Int** 1997 Jul;52(1):111–9

Multiple forms of messenger ribonucleic acid encoding glycodelin in male genital tract. Koistinen H, et al. **Lab Invest** 1997 May;76(5):683–90

The Tage4 gene maps to rat chromosome 1q22. Chadéneau C, et al. **Mamm Genome** 1997 Feb;8(2):157–8

Localization of the beta–nerve growth factor gene (NGFB) to bovine chromosome 3. Elduque C, et al. **Mamm Genome** 1997 Jan;8(1):73–4

A novel class of murine semaphorins with homology to thrombospondin is differentially expressed during early embryogenesis. Adams RH, et al. **Mech Dev** 1996 Jun; 57(1):33–45

Xwnt–2b is a novel axis–inducing Xenopus Wnt, which is expressed in embryonic brain. Landesman Y, et al. **Mech Dev** 1997 May;63(2):199–209

Characterization of glycoprotein H and L of human herpesvirus 7. Mukai T, et al. **Microbiol Immunol** 1997; 41(1):43–50

Molecular cloning of a Schistosoma mansoni protein expressed in the gynecophoral canal of male worms. Bostic JR, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):79–89

Organization of trans–sialidase genes in Trypanosoma cruzi. Egima CM, et al. **Mol Biochem Parasitol** 1996 May; 77(2):115–25

Mucin–like glycoprotein genes are closely linked to members of the trans–sialidase super–family at multiple sites in the Trypanosoma cruzi genome. Salazar NA, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):127–36

Developmental expression of a 43–kDa secreted glycoprotein from Trichinella spiralis. Vassilatis DK, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):13–23

A sex recognition glycoprotein is encoded by the plus mating–type gene fus1 of Chlamydomonas reinhardtii. Ferris PJ, et al. **Mol Biol Cell** 1996 Aug;7(8):1235–48

Molecular cloning and characterization of mouse stanniocalcin cDNA. Chang AC, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):185–7

Expression of amphiregulin in the sheep mammary gland. Forsyth IA, et al. **Mol Cell Endocrinol** 1997 Jan 3; 126(1):41–8

A novel regulation of the oviductal glycoprotein gene expression by luteinizing hormone in bovine tubal epithelial cells. Sun T, et al. **Mol Cell Endocrinol** 1997 Jul 4; 131(1):97–108

The sensory innervation of the mouse spinal cord may be patterned by differential expression of and differential responsiveness to semaphorins. Püschel AW, et al. **Mol Cell Neurosci** 1996 May;7(5):419–31

Growth hormone stimulates transcription of the gene encoding the acid–labile subunit (ALS) of the circulating insulin–like growth factor–binding protein complex and ALS promoter activity in rat liver. Ooi GT, et al. **Mol Endocrinol** 1997 Jun;11(7):997–1007

Characterisation of mouse CD37: cDNA and genomic cloning. Tomlinson MG, et al. **Mol Immunol** 1996 Jul; 33(10):867–72

Molecular cloning and characterization of rat sperm surface antigen 2B1, a glycoprotein implicated in sperm–zona binding. Hou ST, et al. **Mol Reprod Dev** 1996 Oct; 45(2):193–203

Expression and function of amphiregulin during murine preimplantation development. Tsark EC, et al. **Mol Reprod Dev** 1997 Jul;47(3):271–83

Structural analysis of the mouse prosaposin (SGP–1) gene reveals the presence of an exon that is alternatively spliced in transcribed mRNAs. Zhao Q, et al. **Mol Reprod Dev** 1997 Sep;48(1):1–8

Engineering of the major house dust mite allergen Der f 2 for allergen–specific immunotherapy [see comments] Takai T, et al. **Nat Biotechnol** 1997 Aug;15(8):754–8. Comment in: Nat Biotechnol 1997 Aug;15(8):718–9.

Ligands for ErbB–family receptors encoded by a neuregulin–like gene. Chang H, et al. **Nature** 1997 May 29;387(6632):509–12

Effect of a specific endothelin receptor A antagonist and an angiotensin–converting enzyme inhibitor on glomerular mRNA levels for extracellular matrix components, metalloproteinases (MMP) and a tissue inhibitor of MMP in aminonucleoside nephrosis. Ebihara I, et al. **Nephrol Dial Transplant** 1997 May;12(5):1001–6

Targeted mutagenesis of Timp–1 reveals that lung tumor invasion is influenced by Timp–1 genotype of the tumor but not by that of the host. Soloway PD, et al. **Oncogene** 1996 Dec 5;13(11):2307–14

The influence of transforming growth factor beta 1 on the expression of genes coding for matrix metalloproteinases and tissue inhibitors of metalloproteinases during regeneration from cerulein–induced pancreatitis. Müller–Pillasch F, et al. **Pancreas** 1997 Aug;15(2):168–75

Localization and developmental expression of surfactant proteins D and A in the respiratory tract of the mouse. Wong CJ, et al. **Pediatr Res** 1996 Jun;39(6):930–7

A novel extensin gene encoding a hydroxyproline–rich glycoprotein requires sucrose for its wound–inducible expression in transgenic plants. Ahn JH, et al. **Plant Cell** 1996 Sep;8(9):1477–90

The self–incompatibility (S) haplotypes of Brassica contain highly divergent and rearranged sequences of ancient origin. Boyes DC, et al. **Plant Cell** 1997 Feb;9(2):237–47

Molecular characterization of the S locus in two self–incompatible Brassica napus lines. Yu K, et al. **Plant Cell** 1996 Dec;8(12):2369–80

Transient increase in the level of mRNA for a germin–like protein in leaves of the short–day plant Pharbitis nil during the photoperiodic induction of flowering. Ono M, et al. **Plant Cell Physiol** 1996 Sep;37(6):855–61

Regulated expression of a wheat germin gene in tobacco: oxalate oxidase activity and apoplastic localization of the heterologous protein. Berna A, et al. **Plant Mol Biol** 1997 Feb;33(3):417–29

Organization and chromosomal localization of the gene encoding the mouse acid labile subunit of the insulin–like growth factor binding complex. Boisclair YR, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10028–33

Evolution of antifreeze glycoprotein gene from a trypsinogen

gene in Antarctic notothenioid fish. Chen L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3811–6

Convergent evolution of antifreeze glycoproteins in Antarctic notothenioid fish and Arctic cod. Chen L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3817–22

Identification of a structural constituent and one possible site of postembryonic formation of a teleost otolithic membrane. Davis JG, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):707–12

A reversibly glycosylated polypeptide (RGP1) possibly involved in plant cell wall synthesis: purification, gene cloning, and trans–Golgi localization. Dhugga KS, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7679–84

Striking sequence similarity in inter– and intra–specific comparisons of class I SLG alleles from Brassica oleracea and Brassica campestris: implications for the evolution and recognition mechanism. Kusaba M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7673–8

Origin of antifreeze protein genes: a cool tale in molecular evolution. Logsdon JM Jr, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3485–7

Complex formation between stage–specific oocyte factors and a Xenopus mRNA localization element. Mowry KL. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14608–13

Structure and regulation of the ALS gene. Ooi GT, et al. **Prog Growth Factor Res** 1995;6(2–4):151–7 (30 ref.)

Directed evolution of a type I antifreeze protein expressed in Escherichia coli with sodium chloride as selective pressure and its effect on antifreeze tolerance. Meijer PJ, et al. **Protein Eng** 1996 Nov;9(11):1051–4

Cloning and sequencing of a cDNA encoding an ovine oestrus–associated oviducal protein. Marshall JT, et al. **Reprod Fertil Dev** 1996;8(2):305–10

Bovine granulosa cells express extracellular matrix proteins and their regulators during luteinization in culture. Zhao Y, et al. **Reprod Fertil Dev** 1996;8(2):259–66

Localization of Xenopus Vg1 mRNA by Vera protein and the endoplasmic reticulum [see comments] Deshler JO, et al. **Science** 1997 May 16;276(5315):1128–31. Comment in: Science 1997 May 16;276(5315):1092–3.

A new face for the endoplasmic reticulum: RNA localization [comment] Etkin LD. **Science** 1997 May 16; 276(5315):1092–3. Comment on: Science 1997 May 16;276(5315):1128–31.

Nanogram quantities of plasmid DNA encoding the rabies virus glycoprotein protect mice against lethal rabies virus infection. Ray NB, et al. **Vaccine** 1997 Jun;15(8):892–5

Host–derived intracellular immunization against mouse hepatitis virus infection. Chen W, et al. **Virology** 1997 Feb 17;228(2):318–32

Immune response to neonatal genetic immunization. Wang Y, et al. **Virology** 1997 Feb 17;228(2):278–84

Characterization of membrane–bound and membrane anchor–less forms of hemagglutinin glycoprotein of Rinderpest virus expressed by baculovirus recombinants. Naik S, et al. **Virus Genes** 1997;14(2):95–104

The glycoprotein genes and gene junctions of the fish rhabdoviruses spring viremia of carp virus and hirame rhabdovirus: analysis of relationships with other rhabdoviruses. Björklund HV, et al. **Virus Res** 1996 Jun; 42(1–2):65–80

The KNH1 gene of Saccharomyces cerevisiae is a functional homolog of KRE9. Dijkgraaf GJ, et al. **Yeast** 1996 Jun 15;12(7):683–92

[Alteration of mRNA transcripts of rat Sertoli cell secreted proteins and Leydig cell LH/CG–R protein following glycosides of Tripterigium Wilfordii Hook administration] Zheng W, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):104–10 (Eng. Abstr.) **(Chi)**

[Significance in gene expression of matrix metalloproteinase–9, urokinase–type plasminogen activator and tissue inhibitor of metalloproteinase for metastases of gastric and/or colo–rectal cancer] Koumura H, et al. **Gan To Kagaku Ryoho** 1997 Jul;24 Suppl 2:324–31 (Eng. Abstr.) **(Jpn)**

[Molecular mechanisms of self–incompatibility in Brassica] Takayama S, et al. **Tanpakushitsu Kakusan Koso** 1997 Jul; 42(9):1386–95 (41 ref.) **(Jpn)**

[Expression of genes encoding animal herpesvirus glycoproteins in baculovirus] Bieńkowska–Szewczyk K, et al. **Postepy Hig Med Dosw** 1996;50(5):545–8 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Expression of the house dust mite allergen Der p2 and mutants in the baker's yeast Saccharomyces cerevisiae. Hakkaart GA, et al. **Adv Exp Med Biol** 1996;409:395–8 (5 ref.)

Responsiveness to the major pollen allergen of Parietaria officinalis is associated with defined HLA–DRB1* alleles in Italian and Spanish allergic patients. Ruffilli A, et al. **Adv Exp Med Biol** 1996;409:75–9

Molecular cloning and immunological characterization of the group 7 allergens of house dust mites. Shen HD, et al. **Adv Exp Med Biol** 1996;409:241–2

Reduction of IgE antibody binding to rDer p 2 variants generated by site–directed mutagenesis. Smith AM, et al. **Adv Exp Med Biol** 1996;409:391–4

House dust mites and Der p I in Tenerife (Canary Islands, Spain): the relative importance of other non Dermatophagoides spp mites. Garcia Robaina JC, et al. **Allergol Immunopathol (Madr)** 1996 Jul–Aug;24(4):135–8

Effects of immunotherapy on symptoms, PEFR, spirometry, and airway responsiveness in patients with allergic asthma to house–dust mites (D. pteronyssinus) on inhaled steroid therapy. Costa JC, et al. **Allergy** 1996 Apr;51(4):238–44

Diagnostic significance of in vitro T–cell proliferative responses to house–dust mite Der p 1 in children with dust–mite allergy. Horneff G, et al. **Allergy** 1996 Nov; 51(11):842–6

Further characterization of IgE–binding antigens in horse dander, with particular emphasis on glycoprotein allergens. Johnsen, et al. **Allergy** 1996 Sep;51(9):608–13

Comparisons of IgE, IgG, and IgG4 responsiveness to Dermatophagoides farinae in children by immunoblotting. Noguchi E, et al. **Allergy** 1996 Dec;51(12):907–13

A 1–year, placebo–controlled, double–blind house–dust–mite immunotherapy study in asthmatic adults. Olsen OT, et al. **Allergy** 1997 Aug;52(8):853–9

Exposure chamber for allergen challenge. A placebo–controlled, double–blind trial in house–dust–mite asthma. Rønborg SM, et al. **Allergy** 1997 Aug;52(8):821–8

Effect of local allergen priming on early, late, delayed–phase, and epicutaneous skin reactions. Weller FR, et al. **Allergy** 1996 Dec;51(12):883–6

Transient sensitization to house–dust mites: a study on the influence of mite exposure and sex. Wickman M, et al. **Allergy** 1996 Jul;51(7):511–3

Month of birth and sensitization to dust mites in New England. Saryan JA, et al. **Allergy Asthma Proc** 1996 Mar–Apr;17(2):65–9

Heterophilic antibodies produce spuriously elevated concentrations of the MB isoenzyme of creatine kinase in a selected patient population. Sosolik RC, et al. **Am J Clin Pathol** 1997 May;107(5):506–10

The antiphospholipid/cofactor syndromes: a primary variant with antibodies to beta 2–glycoprotein–I but no antibodies detectable in standard antiphospholipid assays. Cabral AR, et al. **Am J Med** 1996 Nov;101(5):472–81

Physiologic apoptosis, beta 2–glycoprotein I, and antiphospholipid autoantibodies [letter; comment] Cheng HM. **Am J Obstet Gynecol** 1996 Nov;175(5):1393. Comment on: Am J Obstet Gynecol 1995 Nov;173(5):1410–5.

Induction of experimental antiphospholipid antibody syndrome in PL/J mice following immunization with beta 2 GPI. García CO, et al. **Am J Reprod Immunol** 1997 Jan; 37(1):118–24

Treatment of cat allergy with T–cell reactive peptides. Norman PS, et al. **Am J Respir Crit Care Med** 1996 Dec; 154(6 Pt 1):1623–8

Seasonal variation of skin reactivity and specific IgE antibody to house dust mite. Nahm DH, et al. **Ann Allergy Asthma Immunol** 1997 Jun;78(6):589–93

The association of antibodies to beta 2 glycoprotein I with the antiphospholipid syndrome: a meta–analysis. Najmey SS, et al. **Ann Clin Lab Sci** 1997 Jan–Feb;27(1):41–6

Clinical significance of anti–beta 2–glycoprotein I antibodies. Amengual O, et al. **Ann Med Interne (Paris)** 1996 Sep;147 Suppl 1:15–7 (28 ref.)

Fab' fragments of a mAb to a member of family 2 of trans–sialidases of Trypanosoma cruzi block trypanosome invasion of host cells and neutralize infection by passive immunization. Villalta F, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:242–5

Importance of a new tumor marker TRA–1–60 in the follow–up of patients with clinical stage I nonseminomatous testicular germ cell tumors. Gels ME, et al. **Ann Surg Oncol** 1997 Jun;4(4):321–7

Generation and characterization of mouse monoclonal antibodies specific for N–linked neutral oligosaccharides of glycoproteins. Ozawa H, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):48–57

Identification and mutational analysis of the immunodominant IgE binding epitopes of the major peanut allergen Ara h 2. Stanley JS, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):244–53

Glycoproteins E2 of the Venezuelan and eastern equine encephalomyelitis viruses contain multiple cross–reactive epitopes. Pereboev AV, et al. **Arch Virol** 1996; 141(11):2191–205

Antibodies to beta2–glycoprotein I in patients with systemic lupus erythematosus: comment on the articles by Tsutsumi et al and Roubey et al [letter; comment] Inanç M, et al. **Arthritis Rheum** 1997 Jul;40(7):1366–8. Comment on: Arthritis Rheum 1996 Sep;39(9):1466–74. Comment on: Arthritis Rheum 1996 Sep;39(9):1606–7.

Comparison of an enzyme–linked immunosorbent assay for antibodies to beta 2–glycoprotein I and a conventional anticardiolipin immunoassay [see comments] Roubey RA, et al. **Arthritis Rheum** 1996 Sep;39(9):1606–7. Comment in: Arthritis Rheum 1996 Sep;39(9):1441–3. Comment in: Arthritis Rheum 1997 Jul;40(7):1366–8.

Antibodies to beta 2–glycoprotein I and clinical manifestations in patients with systemic lupus erythematosus [see comments] Tsutsumi A, et al. **Arthritis Rheum** 1996 Sep;39(9):1466–74. Comment in: Arthritis Rheum 1996 Sep;39(9):1441–3. Comment in: Arthritis Rheum 1997 Jul;40(7):1366–8.

Human cartilage glycoprotein–39 as a candidate autoantigen in rheumatoid arthritis. Verheijden GF, et al. **Arthritis Rheum** 1997 Jun;40(6):1115–25

The allergen Der p1 induces NF–kappaB activation through interference with IkappaB alpha function in asthmatic bronchial epithelial cells. Stacey MA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):522–6

Development of a human IgA antibody specific for the tumour antigen TAG–72. Ingram PE, et al. **Biochem Soc Trans** 1997 May;25(2):330S

Apoptotic antigens, B2–glycoprotein I, and antiphospholipid autoantibodies [letter; comment] Cheng HM. **Blood** 1996 Dec 1;88(11):4396. Comment on: Blood 1996 Jun 15;87(12):5185–95.

Schistosoma mansoni excretory circulating cathodic antigen shares Lewis–x epitopes with a human granulocyte surface antigen and evokes host antibodies mediating complement–dependent lysis of granulocytes. van Dam GJ, et al. **Blood** 1996 Dec 1;88(11):4246–51

Activated protein C resistance in patients with anti–beta 2 glycoprotein I antibodies. Martinuzzo M, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):702–4

Specificity of ELISA for antibody to beta 2–glycoprotein I in patients with antiphospholipid syndrome. Amengual O, et al. **Br J Rheumatol** 1996 Dec;35(12):1239–43

Anti–beta 2–glycoprotein I antibodies: a useful marker for the antiphospholipid syndrome. Teixidó M, et al. **Br J Rheumatol** 1997 Jan;36(1):113–6

Lectins and antibodies against blood–group antigens as tools for studying the cellular source of glycoproteins in human bronchial fluid: a comparison of morphological and biochemical observations. Bals R, et al. **Cell Tissue Res** 1996 Dec;286(3):457–65

Immunochemical analysis of the subcommissural organ–Reissner's fiber complex using antibodies against alkylated and deglycosylated glycoproteins of the bovine Reissner's fiber. Nualart F, et al. **Cell Tissue Res** 1996 Oct; 286(1):23–31

Bovine Reissner's fiber (RF) and the central canal of the spinal cord: an immunocytochemical study using a set of monoclonal antibodies against the RF–glycoproteins. Pérez J, et al. **Cell Tissue Res** 1996 Oct;286(1):33–42

Thrombogenic properties of murine anti–cardiolipin antibodies induced by beta 2 glycoprotein I and human immunoglobulin G antiphospholipid antibodies. Pierangeli SS, et al. **Circulation** 1996 Oct 1;94(7):1746–51

Thermolabile beta–2 macroglycoprotein (Hakata antigen) in liver disease: biochemical and immunohistochemical study. Fukutomi T, et al. **Clin Chim Acta** 1996 Nov 29; 255(2):93–106

Feather mites are potentially an important source of allergens for pigeon and budgerigar keepers. Colloff MJ, et al. **Clin Exp Allergy** 1997 Jan;27(1):60–7

Mite allergy is associated with a specific profile of IgG epitopes recognized on antigen p1 of Dermatophagoides pteronyssinus. Duchateau J, et al. **Clin Exp Allergy** 1997 Mar;27(3):296–305

Lack of evidence of a significant association between HLA–DR, DQ and DP genotypes and atopy in families with HDM allergy. Holloway JW, et al. **Clin Exp Allergy** 1996 Oct;26(10):1142–9

Skin test and crossreactivity studies with Euroglyphus maynei and Dermatophagoides pteronyssinus. Kemp SF, et al. **Clin Exp Allergy** 1997 Aug;27(8):893–7

Human T and B cell immune responses to Fel d 1 in cat–allergic and non–cat–allergic subjects. Mark PG, et al. **Clin Exp Allergy** 1996 Nov;26(11):1316–28

Major Dermatophagoides mite allergen, Der 1, in soft toys. Nagakura T, et al. **Clin Exp Allergy** 1996 May;26(5):585–9

On the potential significance of the enzymatic activity of mite allergens to immunogenicity. Clues to structure and function revealed by molecular characterization. Robinson C, et al. **Clin Exp Allergy** 1997 Jan;27(1):10–21 (58 ref.)

IgE and monoclonal antibody binding by the mite allergen Der p 7. Shen HD, et al. **Clin Exp Allergy** 1996 Mar; 26(3):308–15

Characterization of the allergen Der f 7 from house dust mite extracts by species–specific and crossreactive monoclonal antibodies. Shen HD, et al. **Clin Exp Allergy** 1997 Jul;27(7):824–32

Localization of antigenic sites on Der p 2 using oligonucleotide–directed mutagenesis targeted to predicted surface residues. Smith AM, et al. **Clin Exp Allergy** 1997 May;27(5):593–9

Seasonal differences in airway hyperresponsiveness in asthmatic patients: relationship with allergen exposure and sensitization to house dust mites. van der Heide S, et al. **Clin Exp Allergy** 1997 Jun;27(6):627–33

Human T cell responses to recombinant mite antigens of Dermatophagoides farinae. Fujii S, et al. **Clin Exp Immunol** 1997 May;108(2):284–8

Antibodies to beta2–glycoprotein I—a specific marker for the antiphospholipid syndrome. Guerin J, et al. **Clin Exp Immunol** 1997 Aug;109(2):304–9

Measurement of anticardiolipin antibodies by ELISA using beta 2–glycoprotein I (beta 2–GPI) in systemic sclerosis. Ihn H, et al. **Clin Exp Immunol** 1996 Sep;105(3):475–9

Therapeutic effects of preferential induction of mite–specific T helper 0 clones. Yamashita N, et al. **Clin Exp Immunol** 1997 Aug;109(2):332–41

Interaction of a wasp ovarian protein and polydnavirus in host immune suppression. Luckhart S, et al. **Dev Comp Immunol** 1996 Jan–Feb;20(1):1–21

Surfactant protein A, but not surfactant protein D, is an opsonin for influenza A virus phagocytosis by rat alveolar macrophages. Benne CA, et al. **Eur J Immunol** 1997 Apr;

27(4):886–90

Anti–beta 2 glycoprotein I antibodies in a general obstetric population: preliminary results on the prevalence and correlation with pregnancy outcome. Anti–beta2 glycoprotein I antibodies are associated with some obstetrical complications, mainly preeclampsia–eclampsia. Faden D, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):37–42

Antibodies to beta 2–glycoprotein I and prothrombin in habitual abortion. Ailus K, et al. **Fertil Steril** 1996 Dec; 66(6):937–41

T cell targeting of TAG72+ tumor cells by a chimeric receptor with antibody–like specificity for a carbohydrate epitope. Hombach A, et al. **Gastroenterology** 1997 Oct; 113(4):1163–70

Coccidioides immitis antigen 2: analysis of gene and protein. Zhu Y, et al. **Gene** 1996 Nov 28;181(1–2):121–5

Chemical synthesis of Haemophilus influenzae glycopeptide conjugates. Kandil AA, et al. **Glycoconj J** 1997 Jan; 14(1):13–7

FA1 immunoreactivity in endocrine tumours and during development of the human fetal pancreas; negative correlation with glucagon expression. Tornehave D, et al. **Histochem Cell Biol** 1996 Dec;106(6):535–42

Association of responsiveness to the major pollen allergen of Parietaria officinalis with HLA–DRB1* alleles: a multicenter study. D'Amato M, et al. **Hum Immunol** 1996 Apr;46(2):100–6

Monoclonal antibodies against the 43,000 Da glycoprotein from Paracoccidioides brasiliensis modulate laminin–mediated fungal adhesion to epithelial cells and pathogenesis. Gesztesi JL, et al. **Hybridoma** 1996 Dec; 15(6):415–22

Anti–TAG–72 antibody B72.3—immunological and clinical effects in ovarian carcinoma. Schmolling J, et al. **Hybridoma** 1997 Feb;16(1):53–8

Clinical and immunologic effects of monoclonal antibody CC49 and interleukin–2 in patients with metastatic colorectal cancer. Triozzi PL, et al. **Hybridoma** 1997 Apr; 16(2):147–51

Peptide antigen treatment of naive and virus–immune mice: antigen–specific tolerance versus immunopathology. Aichele P, et al. **Immunity** 1997 May;6(5):519–29

SLAM and its role in T cell activation and Th cell responses. Aversa G, et al. **Immunol Cell Biol** 1997 Apr;75(2):202–5

Immunologic responses following respiratory sensitization to house dust mite allergens in mice. O'Brien R, et al. **Immunol Cell Biol** 1996 Apr;74(2):174–9 (23 ref.)

Monoclonal antibodies against Dermatophagoides group I allergens as pseudo–cystatins blocking the catalytic site of cysteine proteinases. Cambra O, et al. **Immunol Lett** 1996 May;50(3):173–7

B cell mitogenic activity of house dust mite, Dermatophagoides farinae, antigens. Fujii S, et al. **Immunol Lett** 1996 Jan;49(1–2):37–42

Biological activity of recombinant Der p 2, Der p 5 and Der p 7 allergens of the house–dust mite Dermatophagoides pteronyssinus. Lynch NR, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):59–67

Dermatophagoides farinae–1–derived peptides and HLA molecules recognized by T cells from atopic individuals. Matsuoka T, et al. **Int Arch Allergy Immunol** 1997 Apr; 112(4):365–70

Integrated clinical experience with tolerogenic peptides. Nicodemus C, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):326–8

IgE responsiveness to Dermatophagoides farinae in asthma and atopic dermatitis. Noguchi E, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):489–94

Clinical and immunologic effects of component peptides in Allervax Cat. Norman PS, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):224–6

Peripheral blood T lymphocytes and basophils, freshly isolated from house–dust–mite–sensitive patients, produce interleukin–4 in response to allergen–specific stimulation. Ochi H, et al. **Int Arch Allergy Immunol** 1996 Nov; 111(3):253–61

Mouse/human chimeric antibodies directed to two nonoverlapping epitopes of the house dust mite allergen, Der p 2. Schuurman J, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):262–3

Antigenic and molecular structure of the mite allergen Der p 2. Smith AM, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):99–101

Dermatophagoides–farinae–induced pulmonary eosinophilic inflammation in mice. Yu CK, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):73–82

Immunologic characterization and functional properties of murine antibodies raised against deleted mutants of human beta 2–glycoprotein I. George J, et al. **Int Immunol** 1997 Jun;9(6):913–21

Prediction of murine MHC class I epitopes in a major house dust mite allergen and induction of T1–type CD8+ T cell responses. Harris SJ, et al. **Int Immunol** 1997 Feb; 9(2):273–80

Characterization of the specificity and duration of T cell tolerance to intranasally administered peptides in mice: a role for intramolecular epitope suppression. Hoyne GF, et al. **Int Immunol** 1997 Aug;9(8):1165–73

Induction of T cell responses to the invariant chain derived peptide CLIP in mice immunized with the group 1 allergen of house dust mite. Kristensen NM, et al. **Int Immunol** 1996 Jul;8(7):1091–8

A critical role of IL–2 for the production and gene transcription of IL–5 in allergen–specific human T cell clones. Mori A, et al. **Int Immunol** 1996 Dec;8(12):1889–95

Presence of Vicia graminea lectin– and Vicia unijuga lectin–binding (Vgu) glycoprotein in human amniotic fluid and some of its chemical and serological properties. Ohyama K, et al. **Int J Biochem Cell Biol** 1997 Mar; 29(3):455–64

Inhibition of growth and enhancement of differentiation of colorectal carcinoma cell lines by MAb MR6 and IL–4. Al–Tubuly AA, et al. **Int J Cancer** 1997 May 16; 71(4):605–11

Definition of the human T–cell epitopes of Fel d 1, the major allergen of the domestic cat. Counsell CM, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):884–94

Hornet venom allergen antigen 5, Dol m 5: its T–cell epitopes in mice and its antigenic cross–reactivity with a mammalian testis protein. King TP, et al. **J Allergy Clin Immunol** 1997 May;99(5):630–9

Mapping of IgE–binding epitopes on the recombinant major group I allergen of velvet grass pollen, rHol l 1. Schramm G, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):781–7

Production of a mouse/human chimeric IgE monoclonal antibody to the house dust mite allergen Der p 2 and its use for the absolute quantification of allergen–specific IgE. Schuurman J, et al. **J Allergy Clin Immunol** 1997 Apr; 99(4):545–50

Changes in eosinophil and leukocyte infiltration and expression of IL–6 and IL–7 messenger RNA in mite allergen patch test reactions in atopic dermatitis. Yamada N, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S201–6

Engineering the human thyrotropin receptor ectodomain from a non–secreted form to a secreted, highly immunoreactive glycoprotein that neutralizes autoantibodies in Graves' patients' sera. Chazenbalk GD, et al. **J Biol Chem** 1997 Jul 25;272(30):18959–65

Antiidiotypic response against murine monoclonal antibodies reactive with tumor–associated antigen TAG–72. Blanco I, et al. **J Clin Immunol** 1997 Jan;17(1):96–106

Anti–beta2–glycoprotein I (beta2GPI) monoclonal antibodies with lupus anticoagulant–like activity enhance the beta2GPI binding to phospholipids. Takeya H, et al. **J Clin Invest** 1997 May 1;99(9):2260–8

Bystander activation of cytotoxic T cells: studies on the mechanism and evaluation of in vivo significance in a transgenic mouse model. Ehl S, et al. **J Exp Med** 1997 Apr 7;185(7):1241–51

Production and characterization of specific anti–peptide antiserum against free alpha–subunit of rat pituitary glycoprotein hormones. Tanaka S, et al. **J Histochem Cytochem** 1997 Jul;45(7):985–90

Glycosylphosphatidylinositol–anchored mucin–like glycoproteins isolated from Trypanosoma cruzi trypomastigotes initiate the synthesis of proinflammatory cytokines by macrophages. Camargo MM, et al. **J Immunol** 1997 Jun 15;158(12):5890–901

Selective activation of CD8 T cell effector functions by epitope variants of lymphocytic choriomeningitis virus glycoprotein. Martin S, et al. **J Immunol** 1996 Sep 15; 157(6):2358–65

Anti–phospholipid autoantibodies bind to apoptotic, but not viable, thymocytes in a beta 2–glycoprotein I–dependent manner. Price BE, et al. **J Immunol** 1996 Sep 1; 157(5):2201–8

Site–directed mutagenesis of recombinant human beta 2–glycoprotein I identifies a cluster of lysine residues that are critical for phospholipid binding and anti–cardiolipin antibody activity. Sheng Y, et al. **J Immunol** 1996 Oct 15; 157(8):3744–51

Are transporter associated with antigen processing (TAP) and tapasin class I MHC chaperones? Solheim JC, et al. **J Immunol** 1997 Jan 15;158(2):541–3

The anti–beta2–glycoprotein I activity in human anti–phospholipid syndrome sera is due to monoreactive low–affinity autoantibodies directed to epitopes located on native beta2–glycoprotein I and preserved during species' evolution. Tincani A, et al. **J Immunol** 1996 Dec 15; 157(12):5732–8

Altered T cell ligands derived from a major house dust mite allergen enhance IFN–gamma but not IL–4 production by human CD4+ T cells. Tsitoura DC, et al. **J Immunol** 1996 Sep 1;157(5):2160–5

Generation of antibodies to human IL–12 and amphiregulin by immunization of Balb/c mice with diepitope multiple antigen peptides. Ahlborg N, et al. **J Immunol Methods** 1997 May 12;204(1):23–32

Characterization of murine monoclonal antibodies specific for the 45/47 kDa antigen complex (APA) of Mycobacterium tuberculosis, M. bovis and BCG. Horn C, et al. **J Immunol Methods** 1996 Oct 16;197(1–2):151–9

The humoral immune response against human cytomegalovirus is characterized by a delayed synthesis of glycoprotein–specific antibodies. Schoppel K, et al. **J Infect Dis** 1997 Mar;175(3):533–44

Bullous pemphigoid and linear IgA dermatosis sera recognize a similar 120–kDa keratinocyte collagenous glycoprotein with antigenic cross–reactivity to BP180. Pas HH, et al. **J Invest Dermatol** 1997 Apr;108(4):423–9

Sequential determinations of Dermatophagoides spp. allergens in a tropical city. Fernández–Caldas E, et al. **J Investig Allergol Clin Immunol** 1996 Mar–Apr;6(2):98–102

Mite sensitivity and exposure in the city of Santa Fe, Argentina. Neffen HE, et al. **J Investig Allergol Clin Immunol** 1996 Sep–Oct;6(5):278–82

Prevalence and clinical significance of IgG isotype anti–beta 2–glycoprotein I antibodies in antiphospholipid syndrome: a comparative study with anticardiolipin antibodies. Sanmarco M, et al. **J Lab Clin Med** 1997 May; 129(5):499–506

Differences in reactivity of paracoccidioidomycosis sera with gp43 isoforms. Souza MC, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):13–8

Comparative analysis of the frequency of house dust mite specific and nonspecific Th1 and Th2 cells in skin lesions and peripheral blood of patients with atopic dermatitis. Neumann C, et al. **J Mol Med** 1996 Jul;74(7):401–6

The autoimmune reactivity to myelin oligodendrocyte glycoprotein (MOG) in multiple sclerosis is potentially pathogenic: effect of copolymer 1 on MOG–induced disease. Ben–Nun A, et al. **J Neurol** 1996 Apr;243(4 Suppl 1):S14–22

Immunogenicity of the recombinant SAPA protein of Trypanosoma cruzi for mice. Nasser JR, et al. **J Parasitol** 1997 Feb;83(1):76–81

The antiphospholipid/cofactor syndromes. II. A variant in patients with systemic lupus erythematosus with antibodies to beta 2–glycoprotein I but no antibodies detectable in standard antiphospholipid assays. Alarcon–Segovia D, et al. **J Rheumatol** 1997 Aug;24(8):1545–51

Clinical manifestations of the antiphospholipid syndrome in patients with systemic lupus erythematosus associate more strongly with anti–beta 2–glycoprotein–I than with antiphospholipid antibodies. Cabiedes J, et al. **J Rheumatol** 1995 Oct;22(10):1899–906

Antibodies to phospholipid–free beta 2–glycoprotein–I in patients with primary antiphospholipid syndrome. Cabral AR, et al. **J Rheumatol** 1995 Oct;22(10):1894–8

Analytical and clinical relationships between human IgG autoantibodies to beta 2 glycoprotein I and anticardiolipin antibodies. El–Kadi HS, et al. **J Rheumatol** 1995 Dec; 22(12):2233–7

Anticardiolipin, anti–beta(2)–glycoprotein I, antiprothrombin antibodies, and lupus anticoagulant in patients with systemic lupus erythematosus with a history of thrombosis. Swadzba J, et al. **J Rheumatol** 1997 Sep;24(9):1710–5

Identification of amino acids controlling the low–pH–induced conformational change of rabies virus glycoprotein. Gaudin Y, et al. **J Virol** 1996 Nov;70(11):7371–8

Human cytomegalovirus US2 destabilizes major histocompatibility complex class I heavy chains. Jones TR, et al. **J Virol** 1997 Apr;71(4):2970–9

The use of an E1–deleted, replication–defective adenovirus recombinant expressing the rabies virus glycoprotein for early vaccination of mice against rabies virus. Wang Y, et al. **J Virol** 1997 May;71(5):3677–83

Rabies vaccine potency control: comparison of ELISA systems for antigenicity testing. Rooijakkers EJ, et al. **J Virol Methods** 1996 Apr 26;58(1–2):111–9

Immunosuppression by metastatic lymphoma derived altered retroviral gp70 molecule. Hao W, et al. **Leukemia** 1997 Apr;11 Suppl 3:202–5

Restriction of Friend virus–induced erythroid cell proliferation by CD4+ T–lymphocytes that recognize a single gp70 epitope. Miyazawa M, et al. **Leukemia** 1997 Apr;11 Suppl 3:227–9

beta 2–Glycoprotein I: target antigen for autoantibodies in the 'antiphospholipid syndrome'. Kandiah DA, et al. **Lupus** 1996 Oct;5(5):381–5 (40 ref.)

Anti–beta 2–glycoprotein I antibody: specificity and clinical significance. Koike T, et al. **Lupus** 1996 Oct;5(5):378–80 (15 ref.)

Anti beta 2glycoprotein I antibodies and lupus anticoagulant in patients with recurrent pregnancy loss: prevalence and clinical significance. Ogasawara M, et al. **Lupus** 1996 Dec; 5(6):587–92

Determination of the N– and C–terminal sequences required to bind human IgE of the major house dust mite allergen Der f 2 and epitope mapping for monoclonal antibodies. Takai T, et al. **Mol Immunol** 1997 Feb;34(3):255–61

Characterization of monoclonal antibodies recognizing three distinct, phosphorylated carbohydrate epitopes in the lipopolysaccharide of the deep rough mutant I–69 Rd–/b+ of Haemophilus influenzae. Rozalski A, et al. **Mol Microbiol** 1997 Feb;23(3):569–77

Clinical comparison of radiolocalization of two monoclonal antibodies (mAbs) against the TAG–72 antigen. Divgi CR, et al. **Nucl Med Biol** 1994 Jan;21(1):9–15

Pregnancy loss and autoantibodies against phospholipid–binding proteins. Falcón CR, et al. **Obstet Gynecol** 1997 Jun;89(6):975–80

Double–blind placebo–controlled study of sublingual immunotherapy with house dust mite extract (D.pt.) in children. Hirsch T, et al. **Pediatr Allergy Immunol** 1997 Feb;8(1):21–7

Mite allergy, clinical atopy, and restriction by HLA class II immune response genes. Stephan V, et al. **Pediatr Allergy Immunol** 1996 Feb;7(1):28–34

Immunologic priming of young children by pneumococcal glycoprotein conjugate, but not polysaccharide, vaccines. O'Brien KL, et al. **Pediatr Infect Dis J** 1996 May; 15(5):425–30

Antibodies to beta 2 glycoprotein I: standardized immunoassay and a reference interval for healthy controls.

Najmey SS, et al. **Proc Assoc Am Physicians** 1996 Nov; 108(6):467–72

Fertilization antigen–1: cDNA cloning, testis–specific expression, and immunocontraceptive effects. Zhu X, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4704–9

Antibodies to cardiolipin and beta 2 glycoprotein I in patients with polymyalgia rheumatica and giant cell arteritis. Meyer O, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):241–7

Airway response of asthmatic subjects to inhaled allergen after exposure to pollutants. Rusznak C, et al. **Thorax** 1996 Nov;51(11):1105–8

Species specificity of anti–beta 2 glycoprotein I autoantibodies and its relevance to anticardiolipin antibody quantitation. Arvieux J, et al. **Thromb Haemost** 1996 May; 75(5):725–30

Relationship of lupus anticoagulant, anticardiolipin, anti–beta2–GPI and anti–prothrombin autoantibodies with history of thrombosis in patients with the clinical suspicion of APA–syndrome [letter] D'Angelo A, et al. **Thromb Haemost** 1997 Aug;78(2):967–8

Reactivity to beta 2 glycoprotein I clearly differentiates anticardiolipin antibodies from antiphospholipid syndrome and syphilis. Forastiero RR, et al. **Thromb Haemost** 1996 May;75(5):717–20

Antiphospholipid syndromes with anti–human beta 2–glycoprotein I antibodies despite negative reactivity in conventional aPL and LA assays [letter] Guérin V, et al. **Thromb Haemost** 1997 May;77(5):1037–8

Increased plasma thrombomodulin in different subgroups of patients with antiphospholipid and anti beta(2) glycoprotein I antibodies [letter] Martinuzzo ME, et al. **Thromb Haemost** 1996 Jun;75(6):972–3

Utilization of dilute Russell's viper venom time to detect autoantibodies against beta 2–glycoprotein I which express anticoagulant activity in the presence but not in the absence of exogenous phospholipids. Pengo V, et al. **Thromb Haemost** 1997 Jan;77(1):123–6

Characterization of a new breast cancer–associated antigen and its relationship to MUC1 and TAG–72 antigens. Harada Y, et al. **Tohoku J Exp Med** 1996 Nov; 180(3):273–88

Tumor necrosis factor–induced expression of porcine glycoproteins gp65 and gp100 recognized by human xenoreactive natural antibodies. Vetr H, et al. **Transplantation** 1996 Aug 15;62(3):396–402

Vaccination with a cocktail of seven recombinantly expressed HSV–1 glycoproteins protects against ocular HSV–1 challenge more efficiently than vaccination with any individual glycoprotein. Ghiasi H, et al. **Vaccine** 1996 Feb; 14(2):107–12

Immune responses in mice induced by HSV–1 glycoproteins presented with ISCOMs or NISV delivery systems. Hassan Y, et al. **Vaccine** 1996 Dec;14(17–18):1581–9

Raccoon poxvirus live recombinant feline panleukopenia virus VP2 and rabies virus glycoprotein bivalent vaccine. Hu L, et al. **Vaccine** 1997 Aug–Sep;15(12–13):1466–72

Kinetics, localization and cytokine profile of T cell responses to immune stimulating complexes (iscoms) containing human influenza virus envelope glycoproteins. Sjölander A, et al. **Vaccine** 1997 Jun;15(9):1030–8

The effect of interferon–gamma on genetic immunization. Xiang ZQ, et al. **Vaccine** 1997 Jun;15(8):896–8

The signal sequence of lymphocytic choriomeningitis virus contains an immunodominant cytotoxic T cell epitope that is restricted by both H–2D(b) and H–2K(b) molecules. Hudrisier D, et al. **Virology** 1997 Jul 21;234(1):62–73

Differential immune recognition of LCMV nucleoprotein and glycoprotein in transgenic mice expressing LCMV cDNA genes. Zeller JC, et al. **Virology** 1997 May 12; 231(2):290–300

Single amino acid substitutions in Puumala virus envelope glycoproteins G1 and G2 eliminate important neutralization epitopes. Hörling J, et al. **Virus Res** 1997 Apr;48(1):89–100

[New targets of antiphospholipid antibodies] Arvieux J, et al. **Rev Med Interne** 1997;18(4):292–302 (69 ref.) (Eng. Abstr.) **(Fre)**

[Major feline allergen—Fel d I immunologic–biochemical aspects] Zielonka TM. **Pneumonol Alergol Pol** 1996; 64(7–8):497–504 (38 ref.) **(Pol)**

[Synthesis and antigenic properties of peptide fragments of beta2–glycoprotein–I] Pal'keeva ME, et al. **Bioorg Khim** 1996 Sep;22(9):678–85 (Eng. Abstr.) **(Rus)**

[Antibodies against Bacillus megaterium H glycoprotein in patients with oncological and nononcological pathology of gastro–intestinal tract] Autenshlius AI, et al. **Biull Eksp Biol Med** 1994 May;117(5):520–2 **(Rus)**

[Monoclonal antibodies against P–epitope of chordin in glial cultures detect astrocytes of the second type] Khalanskiĭ AS, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):209–13 **(Rus)**

ISOLATION & PURIFICATION

Quality parameters for the production of mite extracts. Eraso E, et al. **Allergol Immunopathol (Madr)** 1997 May–Jun; 25(3):113–7

Sequence of a cDNA clone encoding a novel somatolactin in goldfish, Carassius auratus. Cheng KW, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):282–7

A novel function of transferrin as a constituent of macromolecular activators of phagocytosis from platelets and their precursors. Sakamoto H, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):270–4

Isolation and partial characterization of a high molecular weight anionic glycoconjugate from transforming growth factor–beta treated bovine articular chondrocyte cultures. Chan CK, et al. **Biochem Cell Biol** 1996;74(2):233–40

Purification of the blood vessel ATP diphosphohydrolase, identification and localisation by immunological techniques. Sévigny J, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):73–88

Antiviral substance from silkworm faeces: purification and its chemical characterization. Hiraki A, et al. **Biol Pharm Bull** 1997 May;20(5):547–55

Isolation of angiopoietin–1, a ligand for the TIE2 receptor, by secretion–trap expression cloning [see comments] Davis S, et al. **Cell** 1996 Dec 27;87(7):1161–9. Comment in: Cell 1996 Dec 27;87(7):1153–5.

Medium scale production and purification to homogeneity of a recombinant trans–sialidase from Trypanosoma cruzi. Buschiazzo A, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jul;42(5):703–10

Purification and IgE binding capacity of Der s 3, a major allergen from Dermatophagoides siboney. Ferrándiz R, et al. **Clin Exp Allergy** 1997 Jun;27(6):700–4

Isolation and characterization of niphatevirin, a human–immunodeficiency–virus–inhibitory glycoprotein from the marine sponge Niphates erecta. O'Keefe BR, et al. **Eur J Biochem** 1997 Apr 1;245(1):47–53

An antibody against a glycosylated integral membrane protein of the Xenopus laevis nuclear pore complex: a tool for the study of pore complex membranes. Gajewski A, et al. **Eur J Cell Biol** 1996 Sep;71(1):14–21

Purification of rabbit skeletal muscle proteoglycogen: studies on the glucosyltransferase activity of polysaccharide–free and –bound glycogenin. Carrizo ME, et al. **Glycobiology** 1997 Jun;7(4):571–8

Identification of a novel hydroxyproline–rich glycoprotein as the major allergen in Parthenium pollen. Gupta N, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):903–12

The isolation and characterization of a novel collagenolytic serine protease allergen (Der p 9) from the dust mite Dermatophagoides pteronyssinus. King C, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):739–47

Isolation and characterization of a new member of the scavenger receptor superfamily, glycoprotein–340 (gp–340), as a lung surfactant protein–D binding molecule. Holmskov U, et al. **J Biol Chem** 1997 May 23; 272(21):13743–9

Critical conditions for separating the microheterogeneous components of glycoproteins by capillary electrophoresis. Chen Y. **J Chromatogr A** 1997 Apr 18;768(1):39–45

Lectin–glycoenzyme column chromatography monitored by enzyme flow microcalorimetry. Mislovičová D, et al. **J Chromatogr A** 1996 Jan 26;722(1–2):143–9

Development of a purification procedure for the placental protein 14 involving metal–chelate affinity chromatography and hydrophobic interaction chromatography. Berkovsky AL, et al. **J Chromatogr B Biomed Appl** 1997 May 9; 692(2):273–9

An anaphylaxis inhibitory factor present in mouse serum. Astorquiza MI, et al. **J Investig Allergol Clin Immunol** 1996 Jan–Feb;6(1):50–4

Apolipoprotein H: a two–step isolation method. Gambino R, et al. **J Lipid Res** 1996 Apr;37(4):902–4

Immunochemical and subcellular localization of the 43 kDa glycoprotein antigen of Paracoccidioides brasiliensis with monoclonal antibodies. Straus AH, et al. **J Med Vet Mycol** 1996 Jun–Jul;34(3):181–6

Studies on oriented and reversible immobilization of glycoprotein using novel boronate affinity gel. Liu XC, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):462–7

Lectin affinity chromatography. West I, et al. **Methods Mol Biol** 1996;59:177–85

Characterization by Western blotting of mouse intestinal glycoproteins bound by Escherichia coli heat–labile enterotoxin type I. Shida K, et al. **Microbiol Immunol** 1996; 40(1):71–5

beta–Glucosylated proteins in the cell wall of the black yeast Exophiala (Wangiella) dermatitidis. Montijn RC, et al. **Microbiology** 1997 May;143 (Pt 5):1673–80

A new member of the hormonally regulated rodent submaxillary gland glycoprotein gene family: cDNA cloning and tissue specific expression. Myal Y, et al. **Mol Cell Endocrinol** 1996 Jul 1;120(2):133–8

Glycodelin from seminal plasma is a differentially glycosylated form of contraceptive glycodelin–A. Koistinen H, et al. **Mol Hum Reprod** 1996 Oct;2(10):759–65

Isolation and characterization of a rabbit epididymal secretory glycoprotein that associates to the spermatozoon surface. Nieto A, et al. **Mol Reprod Dev** 1997 Mar; 46(3):337–43

Hyperactive antifreeze protein from beetles [letter] Graham LA, et al. **Nature** 1997 Aug 21;388(6644):727–8

A water–soluble antitumor glycoprotein from Chlorella vulgaris. Noda K, et al. **Planta Med** 1996 Oct;62(5):423–6

Isolation and characterization of the glycoprotein fraction with a proliferation–promoting activity on human and hamster cells in vitro from Aloe vera gel. Yagi A, et al. **Planta Med** 1997 Feb;63(1):18–21

Purification and characterization of the prothoracicotropic hormone of Drosophila melanogaster. Kim AJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1130–5

Poly (alpha 2,8–deaminoneuraminic acid) is expressed in lung on a single 150–kDa glycoprotein and is an oncodevelopmental antigen. Qu B, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8995–8

Purification of apolipoprotein H by polyethylene glycol precipitation. Cai G, et al. **Protein Expr Purif** 1996 Nov; 8(3):341–6

Bacterial production and purification of the fish pituitary hormone somatolactin. Pendón C, et al. **Protein Expr Purif** 1996 Jun;7(4):389–94

Purification of a secreted form of recombinant rabies virus glycoprotein: comparison of two affinity tags. Wojczyk BS, et al. **Protein Expr Purif** 1996 Mar;7(2):183–93

Purification and characterization of a fibrinogen–clotting enzyme from the venom of jararacuçu (Bothrops jararacussu). Zaganelli GL, et al. **Toxicon** 1996 Jul; 34(7):807–19

[Antineoplastic glycoproteins in marine invertebrates] Yamazaki M, et al. **Gan To Kagaku Ryoho** 1997 Sep; 24(11):1477–85 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Elution of glycoprotein from polyacrylamide gels] Piłat Z, et al. **Postepy Hig Med Dosw** 1996;50(5):541–4 (Eng. Abstr.) **(Pol)**

METABOLISM

Distribution patterns of neoglycoprotein–binding sites (endogenous lectins) and lectin–reactive glycoconjugates during cartilage and bone formation in human finger. Zschabitz A, et al. **Acta Anat (Basel)** 1995;154(4):272–82

Temporal association between lens protein glycation and cataract development in diabetic rats. Turk Z, et al. **Acta Diabetol** 1997 Mar;34(1):49–54

Preferential expression of Fas/APO1 (CD95) and apoptotic cell death in perinecrotic cells of glioblastoma multiforme. Tachibana O, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):431–4

Reduced sialylation of glycoproteins in nasal glands of patients with chronic sinusitis. Ueno K, et al. **Acta Otolaryngol (Stockh)** 1997 May;117(3):420–3

Platelet serotonin transporter in coeliac disease. Chiaravalloti G, et al. **Acta Paediatr** 1997 Jul;86(7):696–9

Kinetics of translation and glycosylation of pituitary glycoproteins. Pérez GT, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):127–37

Heterogeneity and functional properties of subtypes of sodium–dependent glutamate transporters in the mammalian central nervous system. Robinson MB, et al. **Adv Pharmacol** 1997;37:69–115 (210 ref.)

Human plasmatic apolipoprotein H binds human immunodeficiency virus type 1 and type 2 proteins. Stefas E, et al. **AIDS Res Hum Retroviruses** 1997 Jan 1; 13(1):97–104

Expression of collagen, interstitial collagenase, and tissue inhibitor of metalloproteinases–1 in restenosis after carotid endarterectomy. Nikkari ST, et al. **Am J Pathol** 1996 Mar; 148(3):777–83

Human sperm coating antigen from seminal plasma origin. Iborra A, et al. **Am J Reprod Immunol** 1996 Aug; 36(2):118–25

Stability of the glycoprotein A–80 in prostatic carcinoma subsequent to androgen deprivation therapy. Gould VE, et al. **Am J Surg Pathol** 1997 Mar;21(3):319–26

Characterization of the disulfide bonds and the N–glycosylation sites in the glycoprotein from Rathke's gland secretions of Kemp's ridley sea turtle (Lepidochelys kempi). Chin CC, et al. **Anal Biochem** 1996 Jan 15; 233(2):181–7

ARIA: a neuromuscular junction neuregulin. Fischbach GD, et al. **Annu Rev Neurosci** 1997;20:429–58 (162 ref.)

A novel method for evaluating the acrosomal status of mammalian spermatozoa. Margalit I, et al. **Arch Androl** 1997 Sep–Oct;39(2):87–99

Viral infection. I. Regulation of protein synthesis during vaccinia viral infection of animal cells. Bose A, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):362–72

Lysosomal proteolysis of prosaposin, the precursor of saposins (sphingolipid activator proteins): its mechanism and inhibition by ganglioside. Hiraiwa M, et al. **Arch Biochem Biophys** 1997 May 1;341(1):17–24

Viral infection. II. Hemin induces overexpression of p67 as it partially prevents appearance of an active p67–deglycosylase in baculovirus–infected insect cells. Saha D, et al. **Arch Biochem Biophys** 1997 Jun 15; 342(2):373–82

Immunolocalizations of human gelatinase (type IV collagenase, MMP–9) and TIMP (tissue inhibitor of metalloproteinases) in normal epidermis and some epidermal tumors. Kobayashi T, et al. **Arch Dermatol Res** 1996 May;288(5–6):239–44

Immunohistochemical study of matrix metalloproteinases and their tissue inhibitors in pulmonary Langerhans' cell granulomatosis. Hayashi T, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):930–7

A hypothesis about the mechanism of assembly of double–shelled rotavirus particles. Suzuki H. **Arch Virol Suppl** 1996;12:79–85 (30 ref.)

Rotavirus protein expression is important for virus assembly and pathogenesis. Tian P, et al. **Arch Virol Suppl** 1996; 12:69–77 (26 ref.)

Increased immunolocalization of paraoxonase, clusterin, and apolipoprotein A–I in the human artery wall with the progression of atherosclerosis. Mackness B, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1233–8

Nucleotide binding to autotaxin: crosslinking of bound

substrate followed by lysC digestion identifies two labeled peptides. Clair T, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):449–54

Subunit of glycosylation–inhibiting factor is an abundant protein that binds to certain glycoproteins and sugars. Galat A, et al. **Biochem Biophys Res Commun** 1997 Aug 8; 237(1):46–51

M–glycogenin, the protein moiety of Neurospora crassa proteoglycogen, is an auto– and transglucosylating enzyme. Goldraij A, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):909–14

Intracellular distribution of stress glycoproteins in a heat–resistant cell model expressing human HSP70. Jethmalani SM, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):382–7

Evidence that the human homologue of a rat initiation factor–2 associated protein (p67) is a methionine aminopeptidase. Li X, et al.
Biochem Biophys Res Commun 1996 Oct 3;227(1):152–9

The glycoproteins that occur in the colloids of senescent porcine pituitary glands are clusterin and glycosylated albumin fragments. Ogawa S, et al.
Biochem Biophys Res Commun 1997 May 29;234(3):712–8

Evidence for a dual control of macroautophagic sequestration and intracellular trafficking of N–linked glycoproteins by the trimeric G(i3) protein in HT–29 cells. Ogier–Denis E, et al. **Biochem Biophys Res Commun** 1997 Jun 9; 235(1):166–70

Advanced glycation end products induce specific glycoprotein alterations in retinal microvascular cells. Rellier N, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):281–5

The alpha–helical neck region of human lung surfactant protein D is essential for the binding of the carbohydrate recognition domains to lipopolysaccharides and phospholipids. Kishore U, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):505–11

Involvement of a region near valine–69 of tissue inhibitor of metalloproteinases (TIMP)–1 in the interaction with matrix metalloproteinase 3 (stromelysin 1). Nagase H, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):163–7

Characterization of the substrate specificity of the major cysteine protease (cruzipain) from Trypanosoma cruzi using a portion–mixing combinatorial library and fluorogenic peptides. Nery ED, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):427–33

Cystatin–like domain of mouse countertrypin, a member of mammalian fetuin family, is responsible for the inhibition of trypsin. Evidence from site–directed mutagenesis. Yoshida K, et al. **Biochem Mol Biol Int** 1996 Aug; 39(5):1023–8

Is the dust mite allergen Der p1 a cysteine proteinase? Chambers L, et al. **Biochem Soc Trans** 1997 Feb;25(1):85S

Alternate amino terminal processing of surfactant protein A results in cysteinyl isoforms required for multimer formation. Elhalwagi BM, et al. **Biochemistry** 1997 Jun 10; 36(23):7018–25

Characterization of Ca(2+)–binding sites in the kidney stone inhibitor glycoprotein nephrocalcin using vanadyl ions: different metal binding properties in strong and weak inhibitor proteins revealed by EPR and ENDOR. Mustafi D, et al. **Biochemistry** 1996 Nov 26;35(47):14703–9

Conformational changes and fusion activity of vesicular stomatitis virus glycoprotein: [125I]iodonaphthyl azide photolabeling studies in biological membranes. Pak CC, et al. **Biochemistry** 1997 Jul 22;36(29):8890–6

Mutational analysis of the CD6 binding site in activated leukocyte cell adhesion molecule. Skonier JE, et al.
Biochemistry 1996 Nov 26;35(47):14743–8

Role of divalency in the high–affinity binding of anticardiolipin antibody–beta 2–glycoprotein I complexes to lipid membranes. Willems GM, et al. **Biochemistry** 1996 Oct 29;35(43):13833–42

Nickel is a specific antagonist for the catabolism of activated alpha 2–macroglobulin. Kancha RK, et al.
Biochim Biophys Acta 1997 Mar 1;1355(3):231–40

Identification of beta2–glycoprotein I as a membrane–associated protein in kidney: purification by calmodulin affinity chromatography. Klaerke DA, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):203–16

Characterization of the interaction between beta2–glycoprotein I and calmodulin, and identification of a binding sequence in beta2–glycoprotein I. Røjkjaer R, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):217–25

Involvement of the neuregulins and their receptors in cardiac and neural development. Carraway KL 3rd. **Bioessays** 1996 Apr;18(4):263–6 (27 ref.)

Progelatinase B forms from human neutrophils. complex formation of monomer/lipocalin with TIMP–1.
Kolkenbrock H, et al. **Biol Chem** 1996 Jul–Aug; 377(7–8):529–33

In vivo binding of the salivary glycoprotein EP–GP (identical to GCDFP–15) to oral and non–oral bacteria detection and identification of EP–GP binding species. Schenkels LC, et al. **Biol Chem** 1997 Feb;378(2):83–8

Topological requirements for recognition and cleavage of DNA by ribosome–inactivating proteins. Ling J, et al.
Biol Chem Hoppe Seyler 1995 Nov;376(11):637–41

Translational augmentation of pro–matrix metalloproteinase 3 (prostromelysin 1) and a tissue inhibitor of metalloproteinases (TIMP)–1 mRNAs by epidermal growth factor and transforming growth factor alpha, but not by interleukin 1 alpha or 12–O–tetradecanoylphorbol 13–acetate in human uterine cervical fibroblasts: the possible involvement of an atypical protein kinase C. Hosono T, et al. **Biol Pharm Bull** 1996 Oct;19(10):1285–90

Expression of tissue inhibitor of metalloproteinase–1 protein and messenger ribonucleic acid by the oviduct of cyclic, early–pregnant, and ovariectomized steroid–treated gilts. Buhi WC, et al. **Biol Reprod** 1997 Jul;57(1):7–15

Immunolocalization of tissue inhibitor of metalloproteinases–1 within ovine periovulatory follicular and luteal tissues. McIntush EW, et al. **Biol Reprod** 1996 Apr;54(4):871–8

Assessment of the role of tissue inhibitor of metalloproteinase–1 (TIMP–1) during the periovulatory period in female mice lacking a functional TIMP–1 gene. Nothnick WB, et al. **Biol Reprod** 1997 May;56(5):1181–8

Association of oviduct–specific glycoproteins with human and baboon „(Papio anubis) ovarian oocytes and enhancement of human sperm binding to human hemizonae following in vitro incubation. O'Day–Bowman MB, et al. **Biol Reprod** 1996 Jan;54(1):60–9

Immunologic and molecular characterization of an estrogen–dependent glycoprotein in the rhesus (Macaca mulatta) oviduct. Verhage HG, et al. **Biol Reprod** 1997 Sep;57(3):525–31

Activin and follistatin as local regulators in the human ovary. Peng C, et al. **Biol Signals** 1996 Mar–Apr;5(2):81–9 (51 ref.)

Analysis of shorthorn sculpin antifreeze protein stereospecific binding to (2–1 0) faces of ice. Wierzbicki A, et al.
Biophys J 1996 Jul;71(1):8–18

Novel interaction of apolipoprotein(a) with beta–2 glycoprotein I mediated by the kringle IV domain. Köchl S, et al. **Blood** 1997 Aug 15;90(4):1482–9

A potential autocrine loop between heregulin–alpha and erbB–3 receptor in human prostatic adenocarcinoma. Leung HY, et al. **Br J Urol** 1997 Feb;79(2):212–6

alpha2,3–sialyltransferase mRNA and alpha2,3–linked glycoprotein sialylation are increased in malignant gliomas. Yamamoto H, et al. **Brain Res** 1997 Apr 25;755(1):175–9

Induction of clusterin in the immature brain following a hypoxic–ischemic injury. Walton M, et al.
Brain Res Mol Brain Res 1996 Jul;39(1–2):137–52

Expression of L–PHA–binding proteins in breast cancer: reconstitution and molecular characterization of beta 1–6 branched oligosaccharides in three–dimensional cell culture. Taeda Y, et al. **Breast Cancer Res Treat** 1996; 38(3):313–24

Interactions between galectin–3 and Mac–2–binding protein mediate cell–cell adhesion. Inohara H, et al. **Cancer Res** 1996 Oct 1;56(19):4530–4

Neuropilin is a receptor for the axonal chemorepellent Semaphorin III. He Z, et al. **Cell** 1997 Aug 22;90(4):739–51

Neuropilin is a semaphorin III receptor. Kolodkin AL, et al. **Cell** 1997 Aug 22;90(4):753–62

Effect of primary structure modifications in Trypanosoma cruzi neuraminidase/trans–sialidase activities. Cremona ML, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jul; 42(5):697–702

The interaction of the UDP–GLC:glycoprotein glucosyltransferase with the acceptor glycoprotein. Sousa MC, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Jul; 42(5):609–16

Identification of a high molecular weight polypeptide in the subcommissural organ of the chick embryo. Cifuentes M, et al. **Cell Tissue Res** 1996 Dec;286(3):543–6

Differential expression of three glutamate transporter subtypes in the rat retina. Rauen T, et al.
Cell Tissue Res 1996 Dec;286(3):325–36

Overexpression of tissue inhibitor of matrix metalloproteinase–1 inhibits vascular smooth muscle cell functions in vitro and in vivo. Forough R, et al.
Circ Res 1996 Oct;79(4):812–20

Determination of xylosyltransferase activity in serum with recombinant human bikunin as acceptor. Weilke C, et al. **Clin Chem** 1997 Jan;43(1):45–51

Localization of Charcot–Leyden crystal protein in individual morphological phenotypes of human basophils stimulated by f–Met peptide. Dvorak AM, et al. **Clin Exp Allergy** 1997 Apr;27(4):452–74 (52 ref.)

Heterogeneous proteolytic specificity and activity of the house dust mite proteinase allergen Der p I. Hewitt CR, et al. **Clin Exp Allergy** 1997 Feb;27(2):201–7

Interaction of human lung surfactant proteins A and D with mite (Dermatophagoides pteronyssinus) allergens. Wang JY, et al. **Clin Exp Immunol** 1996 Nov;106(2):367–73

Regulation of matrix metalloproteinase–1 and tissue inhibitor of metalloproteinase–1 in MCF–7 cells: comparison with regulatory mechanisms of pS2 expression. Ree AH, et al. **Clin Exp Metastasis** 1996 Sep;14(4):381–8

Correlation between the appearance of gelatinases in the synovial fluid of patients with rheumatoid arthritis and polymorphonuclear elastase, stromelysin–1, and the tissue inhibitor of metalloproteinase–1. Watanabe Y, et al.
Clin Exp Rheumatol 1997 May–Jun;15(3):255–61

Regulation of calcite crystal morphology by intracrystalline acidic proteins and glycoproteins. Albeck S, et al.
Connect Tissue Res 1996;35(1–4):365–70 (19 ref.)

Regional glycoprotein expression in the chicken lens. Denk PO, et al. **Curr Eye Res** 1997 Jun;16(6):527–33

Diurnal variations in tear glycoproteins: evidence for an epithelial origin for the major non–reducible > or = 450 kDa sialoglycoprotein(s). Sack RA, et al. **Curr Eye Res** 1997 Jun;16(6):577–88

Genetics and molecular biology [editorial] Patel S.
Curr Opin Lipidol 1995 Dec;6(6):U149–53

Specific in vitro interaction between recombinant Strongylocentrotus purpuratus bindin and a recombinant 45A fragment of the putative bindin receptor. Cameron RA, et al. **Dev Biol** 1996 Nov 25;180(1):348–52

Release of fructose and hexose phosphates from perivascular cells induced by low density lipoprotein and acceleration of protein glycation in vitro. Takeda H, et al.
Diabetes Res Clin Pract 1996 Mar;31(1–3):1–8

Matrix metalloproteinases and tissue inhibitors of metalloproteinases in colonic adenomas–adenocarcinomas. Tomita T, et al. **Dis Colon Rectum** 1996 Nov;39(11):1255–64

Sequence of a human cDNA encoding Cab45, a Ca2+–binding protein with six EF–hand motifs. Koivu T, et al. **DNA Seq** 1997;7(3–4):217–20

Differential targeting of closely related ECM glycoproteins: the pherophorin family from Volvox. Godl K, et al.
EMBO J 1997 Jan 2;16(1):25–34

A mouse cytomegalovirus glycoprotein, gp34, forms a complex with folded class I MHC molecules in the ER which is not retained but is transported to the cell surface. Kleijnen MF, et al. **EMBO J** 1997 Feb 17;16(4):685–94

The receptor–associated protein (RAP) binds calmodulin and is phosphorylated by calmodulin–dependent kinase II. Petersen CM, et al. **EMBO J** 1996 Aug 15;15(16):4165–73

The cytoplasmic tail of NSP4, the endoplasmic reticulum–localized non–structural glycoprotein of rotavirus, contains distinct virus binding and coiled coil domains. Taylor JA, et al. **EMBO J** 1996 Sep 2; 15(17):4469–76

Bivalence of EGF–like ligands drives the ErbB signaling network. Tzahar E, et al. **EMBO J** 1997 Aug 15; 16(16):4938–50

Follistatin and activin in bone: expression and localization during endochondral bone development. Funaba M, et al.
Endocrinology 1996 Oct;137(10):4250–9

Divergent effects of interleukin–1 beta on steroidogenesis and matrix metalloproteinase inhibitor expression and activity in cultured rat granulosa cells. Nothnick WB, et al.
Endocrinology 1996 Sep;137(9):3784–90

Tissue–specific binding of radiolabeled activin A by activin receptors and follistatin in postimplantation rat and mouse embryos. Roberts VJ, et al. **Endocrinology** 1996 Oct; 137(10):4201–9

Membrane–type–2 matrix metalloproteinase can initiate the processing of progelatinase A and is regulated by the tissue inhibitors of metalloproteinases. Butler GS, et al.
Eur J Biochem 1997 Mar 1;244(2):653–7

Expression and characterization of a lactosaminoglycan–carrying glycoprotein of Zajdela hepatoma cell surface—structural analysis of the carbohydrate moiety. Goulut–Chassaing C, et al.
Eur J Biochem 1997 Aug 1;247(3):1091–101

Investigation of two glycosylated forms of bile–salt–dependent lipase in human pancreatic juice. Mas E, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):299–305

The primary structure and characterization of carbohydrate chains of the extracellular glycoprotein proteinase inhibitor from latex of Carica papaya. Odani S, et al.
Eur J Biochem 1996 Oct 1;241(1):77–82

Glycogen biogenesis in rat 1 fibroblasts expressing rabbit muscle glycogenin. Skurat AV, et al. **Eur J Biochem** 1997 Apr 1;245(1):147–55

The catalytic domain of activated collagenase I (MMP–1) is absolutely required for interaction with its specific inhibitor, tissue inhibitor of metalloproteinases–1 (TIMP–1). Vallon R, et al. **Eur J Biochem** 1997 Feb 15; 244(1):81–8

Blockade of the alpha 2–macroglobulin receptor/low–density–lipoprotein–receptor–related protein on rat liver parenchymal cells by the 39–kDa receptor–associated protein leaves the interaction of beta–migrating very–low–density lipoprotein with the lipoprotein remnant receptor unaffected. Ziere GJ, et al.
Eur J Biochem 1996 Dec 15;242(3):703–11

Cardiopulmonary bypass leads to a preferential loss of activated platelets. A flow cytometric assay of platelet surface antigens. Wahba A, et al.
Eur J Cardiothorac Surg 1996;10(9):768–73

Cleavage of the low–affinity receptor for human IgE (CD23) by a mite cysteine protease: nature of the cleaved fragment in relation to the structure and function of CD23. Schulz O, et al. **Eur J Immunol** 1997 Mar;27(3):584–8

Injury–induced synthesis and release of apolipoprotein E and clusterin from rat neural cells. Messmer–Joudrier S, et al.
Eur J Neurosci 1996 Dec;8(12):2652–61

Heregulin degradation in the absence of rapid receptor–mediated internalization. Baulida J, et al.
Exp Cell Res 1997 Apr 10;232(1):167–72

A chondroitin/dermatan sulfate form of CD44 is a receptor for collagen XIV (undulin). Ehnis T, et al.
Exp Cell Res 1996 Dec 15;229(2):388–97

Characterization of radioiodinated lung surfactant protein A (SP–A) and the effects of oxidation on SP–A quaternary structure and activity. Stuart GR, et al. **Exp Lung Res** 1996 Jul–Aug;22(4):467–87

TRPM–2 expression and tunel staining in neurodegenerative diseases: studies in wobbler and rd mice. Popper P, et al.
Exp Neurol 1997 Feb;143(2):246–54

Strongyloides venezuelensis: adhesion of adult worms to culture vessels by orally secreted mucosubstances. Maruyama H, et al. **Exp Parasitol** 1997 Jan;85(1):10–5

Collagenase (MMP–1) and TIMP–1 in destructive corneal disease associated with rheumatoid arthritis. Riley GP, et al. **Eye** 1995;9 (Pt 6):703–18

Abolition of substrate–dependent currents by tyrosine mutation in the transmembrane domain of glutamate transporter. Choi I, et al. **FEBS Lett** 1997 Mar 24; 405(2):133–6

Tyrosine phosphorylation is crucial for growth signaling by tissue inhibitors of metalloproteinases (TIMP–1 and TIMP–2). Yamashita K, et al. **FEBS Lett** 1996 Oct 28; 396(1):103–7

Nucleation of biliary cholesterol, arachidonate, prostaglandin E2, and glycoproteins in postmenopausal women. Marks JW, et al. **Gastroenterology** 1997 Apr;112(4):1271–6

Epidermal growth factor influences cell proliferation, glycoproteins, and lipase activity in human fetal stomach. Tremblay E, et al. **Gastroenterology** 1997 Apr; 112(4):1188–96

Regulation of an eukaryotic initiation factor–2 (eIF–2) associated 67 kDa glycoprotein (p67) and its requirement in protein synthesis. Gupta S, et al. **Gene Expr** 1995; 5(2):113–22

Transcriptional activation through interaction of MBF2 with TFIIA. Li FQ, et al. **Genes Cells** 1997 Feb;2(2):143–53

Immunological studies on sphingolipid activator proteins in the neuronal ceroid–lipofuscinoses. Haltia M, et al. **Gerontology** 1995;41 Suppl 2:239–48

Purification of rabbit skeletal muscle proteoglycogen: studies on the glucosyltransferase activity of polysaccharide–free and –bound glycogenin. Carrizo ME, et al. **Glycobiology** 1997 Jun;7(4):571–8

N–acetylglucosamine–dependent nuclear import of neoglycoproteins. Duverger E, et al. **Glycobiology** 1996 Jun;6(4):381–6

Role of complex asparagine–linked glycans in the allergenicity of plant glycoproteins. Garcia–Casado G, et al. **Glycobiology** 1996 Jun;6(4):471–7

Structure–function relationships in glucosidase I: amino acids involved in binding the substrate to the enzyme. Romaniouk A, et al. **Glycobiology** 1997 Apr;7(3):399–404

Evaluation of the early processing routes of N–linked oligosaccharides of glycoproteins through the characterization of Man8GlcNAc2 isomers: evidence that endomannosidase functions in vivo in the absence of a glucosidase blockade. Weng S, et al. **Glycobiology** 1996 Dec;6(8):861–8

Differential recognition of glycoprotein acceptors by terminal glycosyltransferases. Yeh J, et al. **Glycobiology** 1997 Mar;7(2):241–51

Homonojirimycin and N–methyl–homonojirimycin inhibit N–linked oligosaccharide processing. Zeng Y, et al. **Glycobiology** 1997 Mar;7(2):297–304

The substrate specificity of the enzyme endo–alpha–N–acetyl–D–galactosaminidase from Diplococcus pneumonia. Brooks MM, et al. **Glycoconj J** 1997 Feb;14(2):183–90

Studies on the inhibition of sialyl– and galactosyltransferases. Kleineidam RG, et al. **Glycoconj J** 1997 Jan;14(1):57–66

Bacterial glycoproteins. Messner P. **Glycoconj J** 1997 Jan; 14(1):3–11 (114 ref.)

Fractionation and characterization of boar seminal plasma spermadhesion PSP–II glycoforms reveal the presence of uncommon N–acetylgalactosamine–containing N–linked oligosaccharides. Solis D, et al. **Glycoconj J** 1997 Feb; 14(2):275–80

Solitary versus multiple gallstones: the importance of total biliary protein concentration and other factors. Tudyka J, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):638–44

Human basophil recovery from secretion. A review emphasizing the distribution of Charcot–Leyden crystal protein in cells stained with the postfixation electron–dense tracer, cationized ferritin. Dvorak AM. **Histol Histopathol** 1996 Jul;11(3):711–28 (42 ref.)

Matrix metalloproteinases and tissue inhibitors of metalloproteinases in thyroid C–cells and medullary thyroid carcinomas. Tomita T. **Histopathology** 1997 Aug; 31(2):150–6

Follistatins and alpha 2–macroglobulin are soluble binding proteins for inhibin and activin. Mather JP. **Horm Res** 1996; 45(3–5):207–10 (29 ref.)

External glycopeptide binding to MHC class–I in relation to expression of TAP transporters, beta 2–microglobulin and to pH. Abdel–Motal UM, et al. **Immunol Lett** 1996 Dec 1;54(1):31–5

Clusterin, a putative complement regulator, binds to the cell surface of Staphylococcus aureus clinical isolates. Partridge SR, et al. **Infect Immun** 1996 Oct;64(10):4324–9

Expression and identification of a laminin–binding protein in Aspergillus fumigatus conidia. Tronchin G, et al. **Infect Immun** 1997 Jan;65(1):9–15

Secretion of type–1–fimbriae binding proteins from human neutrophil granulocytes. Karlsson A, et al. **Inflammation** 1996 Aug;20(4):389–400

Localization of the Drosophila male accessory gland protein Acp36DE in the mated female suggests a role in sperm storage. Bertram MJ, et al. **Insect Biochem Mol Biol** 1996 Sep–Oct;26(8–9):971–80

Vesicular transport of Charcot–Leyden crystal protein in f–Met peptide–stimulated human basophils. Dvorak AM, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):465–77

Induction of B cell apoptosis by co–cross–linking CD23 and sIg involves aberrant regulation of c–myc and is inhibited by bcl–2. Campbell KA, et al. **Int Immunol** 1997 Aug; 9(8):1131–40

Glycoprotein metabolism in dimethylnitrosamine induced hepatic fibrosis in rats. George J, et al. **Int J Biochem Cell Biol** 1996 Mar;28(3):353–61

Tissue inhibitors of metalloproteinases in liver fibrosis. Iredale JP. **Int J Biochem Cell Biol** 1997 Jan;29(1):43–54 (108 ref.)

Possible contribution of active MMP2 to lymph–node metastasis and secreted cathepsin L to bone invasion of newly established human oral–squamous–cancer cell lines. Kawamata H, et al. **Int J Cancer** 1997 Jan 6;70(1):120–7

Colon carcinoma glycoproteins carrying alpha 2,6–linked sialic acid reactive with Sambucus nigra agglutinin are not constitutively expressed in normal human colon mucosa and are distinct from sialyl–Tn antigen. Murayama T, et al. **Int J Cancer** 1997 Mar 4;70(5):575–81

Secretory glycoproteins of the roof and floor plates and their rostral derivatives, the subcommissural and flexural organs, in the developing central nervous system of vertebrates. An immunocytochemical study. Fernández–Llebrez P, et al. **Int J Dev Biol** 1996;Suppl 1:151S–152S

Generation of anaphylatoxins through proteolytic processing of C3 and C5 by house dust mite protease. Maruo K, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):253–60

Glomerular expression of tissue inhibitor of metalloproteinase (TIMP–1) in normal and diabetic rats. Shankland SJ, et al. **J Am Soc Nephrol** 1996 Jan;7(1):97–104

Use of antibodies directed against blood group substances and lectins together with glycosidase digestion to study the composition and cellular distribution of glycoproteins in the large human airways. Bals R, et al. **J Anat** 1997 Jan;190 (Pt 1):73–84

Structure and function of the recombinant fifth domain of human beta 2–glycoprotein I: effects of specific cleavage between Lys77 and Thr78. Hagihara Y, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):128–37

Recognition of acceptor proteins by UDP–D–xylose proteoglycan core protein beta–D–xylosyltransferase. Brinkmann T, et al. **J Biol Chem** 1997 Apr 25; 272(17):11171–5

A soluble form of alpha1,3–galactosyltransferase functions within cells to galactosylate glycoproteins. Cho SK, et al. **J Biol Chem** 1997 May 23;272(21):13622–8

Localization of a binding site for the proteoglycan decorin on collagen XIV (undulin). Ehnis T, et al. **J Biol Chem** 1997 Aug 15;272(33):20414–9

Interaction of apolipoprotein J–amyloid beta–peptide complex with low density lipoprotein receptor–related protein–2/megalin. A mechanism to prevent pathological accumulation of amyloid beta–peptide. Hammad SM, et al. **J Biol Chem** 1997 Jul 25;272(30):18644–9

A novel role of follistatin, an activin–binding protein, in the inhibition of activin action in rat pituitary cells. Endocytotic degradation of activin and its acceleration by follistatin associated with cell–surface heparan sulfate. Hashimoto O, et al. **J Biol Chem** 1997 May 23; 272(21):13835–42

Interaction of cartilage matrix protein with aggrecan. Increased covalent cross–linking with tissue maturation. Hauser N, et al. **J Biol Chem** 1996 Dec 13;271(50):32247–52

Isolation and characterization of a new member of the scavenger receptor superfamily, glycoprotein–340 (gp–340), as a lung surfactant protein–D binding molecule. Holmskov U, et al. **J Biol Chem** 1997 May 23; 272(21):13743–9

Molecular analysis of ligand binding to the second cluster of complement–type repeats of the low density lipoprotein receptor–related protein. Evidence for an allosteric component in receptor–associated protein–mediated inhibition of ligand binding. Horn IR, et al. **J Biol Chem** 1997 May 23;272(21):13608–13

Studies on the site and mechanism of attachment of phosphorylcholine to a filarial nematode secreted glycoprotein. Houston KM, et al. **J Biol Chem** 1997 Jan 17;272(3):1527–33

Folding of the amino–terminal domain of apolipoprotein B initiates microsomal triglyceride transfer protein–dependent lipid transfer to nascent very low density lipoprotein. Ingram MF, et al. **J Biol Chem** 1997 Apr 11;272(15):10279–86

Molecular characterization of a novel human hybrid–type receptor that binds the alpha2–macroglobulin receptor–associated protein. Jacobsen L, et al. **J Biol Chem** 1996 Dec 6;271(49):31379–83

Multiple molecular chaperones complex with misfolded large oligomeric glycoproteins in the endoplasmic reticulum. Kuznetsov G, et al. **J Biol Chem** 1997 Jan 31;272(5):3057–63

Stimulation of tumor cell motility linked to phosphodiesterase catalytic site of autotaxin. Lee HY, et al. **J Biol Chem** 1996 Oct 4;271(40):24408–12

Gender–specific glycosylation of human glycodelin affects its contraceptive activity. Morris HR, et al. **J Biol Chem** 1996 Dec 13;271(50):32159–67

Differential functions of triplicated repeats suggest two independent roles for the receptor–associated protein as a molecular chaperone. Obermoeller LM, et al. **J Biol Chem** 1997 Apr 18;272(16):10761–8

Membrane type 1 matrix metalloproteinase digests interstitial collagens and other extracellular matrix macromolecules. Ohuchi E, et al. **J Biol Chem** 1997 Jan 24;272(4):2446–51

Multiple dimeric forms of human CD69 result from differential addition of N–glycans to typical (Asn–X–Ser/Thr) and atypical (Asn–X–cys) glycosylation motifs. Vance BA, et al. **J Biol Chem** 1997 Sep 12; 272(37):23117–22

Identification and reconstruction of the binding site within alphaMbeta2 for a specific and high affinity ligand, NIF. Zhang L, et al. **J Biol Chem** 1997 Jul 11;272(28):17558–64

Human stanniocalcin inhibits renal phosphate excretion in the rat. Wagner GF, et al. **J Bone Miner Res** 1997 Feb; 12(2):165–71

Intracellular distribution of heat–induced stress glycoproteins. Jethmalani SM, et al. **J Cell Biochem** 1997 Jul 1;66(1):98–111

Ligand–specificity of the selectins. Vestweber D. **J Cell Biochem** 1996 Jun 15;61(4):585–91 (53 ref.)

Targeting of an intestinal apical endosomal protein to endosomes in nonpolarized cells. Wilson JM, et al. **J Cell Biol** 1997 Jan 27;136(2):319–30

Possible role of coexpression of CD9 with membrane–anchored heparin–binding EGF–like growth factor and amphiregulin in cultured human keratinocyte growth. Inui S, et al. **J Cell Physiol** 1997 Jun;171(3):291–8

Characterization of a novel amphiregulin–related molecule in 12–O–tetradecanoylphorbol–13–acetate–treated breast cancer cells. Martinez–Lacaci I, et al. **J Cell Physiol** 1996 Dec;169(3):497–508

ERD2 proteins mediate ER retention of the HNEL signal of LRP's receptor–associated protein (RAP). Bu G, et al. **J Cell Sci** 1997 Jan;110 (Pt 1):65–73

Differential fate of glycoproteins carrying a monoglucosylated form of truncated N–glycan in a new CHO line, MadIA214214, selected for a thermosensitive secretory defect. Ermonval M, et al. **J Cell Sci** 1997 Feb; 110 (Pt 3):323–36

Transport pathway, maturation, and targetting of the vesicular stomatitis virus glycoprotein in skeletal muscle fibers. Rahkila P, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1585–96

Increased expression of extracellular matrix proteins and decreased expression of matrix proteases after serial passage of glomerular mesangial cells. Schnaper HW, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2521–8

Production of endometrial matrix metalloproteinases, but not their tissue inhibitors, is modulated by progesterone withdrawal in an in vitro model for menstruation. Salamonsen LA, et al. **J Clin Endocrinol Metab** 1997 May; 82(5):1409–15

Mildly oxidized LDL induces an increased apolipoprotein J/paraoxonase ratio [published erratum appears in J Clin Invest 1997 Jun 15;99(12):3043] Navab M, et al. **J Clin Invest** 1997 Apr 15;99(8):2005–19

Surprise? Bacteria glycosylate proteins too [editorial; comment] Tuomanen EI. **J Clin Invest** 1996 Dec 15; 98(12):2659–60. Comment on: J Clin Invest 1996 Dec 15;98(12):2813–8.

Expression of the cell adhesion proteins BEN/SC1/DM–GRASP and TAG–1 defines early steps of axonogenesis in the human spinal cord. Karagogeos D, et al. **J Comp Neurol** 1997 Mar 17;379(3):415–27

Expression of high levels of the extracellular matrix glycoprotein, tenascin–C, in the normal adult hypothalamoneurohypophysial system. Theodosis DT, et al. **J Comp Neurol** 1997 Mar 17;379(3):386–98

Expression of tissue inhibitor of metalloproteinases–1 in the primate ovary during induced luteal regression. Duncan WC, et al. **J Endocrinol** 1996 Nov;151(2):203–13

Site–directed mutagenesis of recombinant human beta 2–glycoprotein I identifies a cluster of lysine residues that are critical for phospholipid binding and anti–cardiolipin antibody activity. Sheng Y, et al. **J Immunol** 1996 Oct 15; 157(8):3744–51

Accumulation of sphingolipid activator proteins (SAPs) A and D in granular osmiophilic deposits in miniature Schnauzer dogs with ceroid–lipofuscinosis. Palmer DN, et al. **J Inherit Metab Dis** 1997 Mar;20(1):74–84

Decreased level of prosaposin in atopic skin. Chang–Yi C, et al. **J Invest Dermatol** 1997 Sep;109(3):319–23

Induction of functional empty class I major histocompatibility complex glycoproteins by photoactivated 8–methoxypsoralen. Imaeda S, et al. **J Invest Dermatol** 1996 Dec;107(6):887–90

An anaphylaxis inhibitory factor present in mouse serum. Astorquiza MI, et al. **J Investig Allergol Clin Immunol** 1996 Jan–Feb;6(1):50–4

Heparin, beta2–glycoprotein I, and thrombocytopenia [letter; comment] Cheng HM. **J Lab Clin Med** 1997 Feb; 129(2):266–7. Comment on: J Lab Clin Med 1996 May;127(5):418–9.

Lipoprotein lipase degradation by adipocytes: receptor–associated protein (RAP)–sensitive and proteoglycan–mediated pathways. Obunike JC, et al. **J Lipid Res** 1996 Nov;37(11):2439–49

Presentation of the hydrophilic domains of hepatitis C viral E2 envelope glycoprotein on hepatitis B surface antigen particles. Lee IH, et al. **J Med Virol** 1996 Oct;50(2):145–51

Changing views of the role of matrix metalloproteinases in metastasis. Chambers AF, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1260–70 (127 ref.)

L–aspartate but not the D form is secreted through

microvesicle-mediated exocytosis and is sequestered through Na+-dependent transporter in rat pinealocytes. Yatsushiro S, et al. **J Neurochem** 1997 Jul;69(1):340–7

Neurotrophic factors increase neuregulin expression in embryonic ventral spinal cord neurons. Loeb JA, et al. **J Neurosci** 1997 Feb 15;17(4):1416–24

Cellular and regional distribution of the glutamate transporter GLAST in the CNS of rats: nonradioactive in situ hybridization and comparative immunocytochemistry. Schmitt A, et al. **J Neurosci** 1997 Jan 1;17(1):1–10

cAMP-dependent protein kinase A is required for Schwann cell growth: interactions between the cAMP and neuregulin/tyrosine kinase pathways. Kim HA, et al. **J Neurosci Res** 1997 Jul 15;49(2):236–47

Cultured neonatal Schwann cells contain and secrete neuregulins. Raabe TD, et al. **J Neurosci Res** 1996 Oct 15;46(2):263–70

Maternal dexamethasone treatment enhances the expression of surfactant apoprotein A in the hypoplastic lung of rabbit fetuses induced by oligohydramnios. Asabe K, et al. **J Pediatr Surg** 1996 Oct;31(10):1369–75

The essential role of mass spectrometry in characterizing protein structure: mapping posttranslational modifications. Annan RS, et al. **J Protein Chem** 1997 Jul;16(5):391–402

Zona Pellucida Glycoproteins and Immunocontraception. Proceedings of the International Symposium. New Delhi, India, 2–5 December 1995. **J Reprod Fertil Suppl** 1996; 50:1–198

Beta 2-glycoprotein I and anticardiolipin antibody binding to resting and activated cultured human endothelial cells. Hanly JG, et al. **J Rheumatol** 1996 Sep;23(9):1543–9

Determination of stromelysin-1, 72 and 92 kDa type IV collagenase, tissue inhibitor of metalloproteinase-1 (TIMP-1), and TIMP-2 in synovial fluid and serum from patients with rheumatoid arthritis. Ishiguro N, et al. **J Rheumatol** 1996 Sep;23(9):1599–604

Effects of indomethacin on the production of matrix metalloproteinase-3 and tissue inhibitor of metalloproteinases-1 by human articular chondrocytes. Yamada H, et al. **J Rheumatol** 1996 Oct;23(10):1739–43

Processing and membrane topology of the spike proteins G1 and G2 of Uukuniemi virus. Andersson AM, et al. **J Virol** 1997 Jan;71(1):218–25

A novel human T-leukemia virus type 1 cell-to-cell transmission assay permits definition of SU glycoprotein amino acids important for infectivity. Delamarre L, et al. **J Virol** 1997 Jan;71(1):259–66

The UL20 gene product of pseudorabies virus functions in virus egress. Fuchs W, et al. **J Virol** 1997 Jul;71(7):5639–46

A role for naturally occurring variation of the murine coronavirus spike protein in stabilizing association with the cellular receptor. Gallagher TM. **J Virol** 1997 Apr; 71(4):3129–37

A sorting motif localizes the foamy virus glycoprotein to the endoplasmic reticulum. Goepfert PA, et al. **J Virol** 1997 Jan;71(1):778–84

A 45,000-M(r) glycoprotein in the Sendai virus envelope triggers virus-cell fusion. Kumar M, et al. **J Virol** 1997 Sep;71(9):6398–406

Epstein-Barr virus uses HLA class II as a cofactor for infection of B lymphocytes. Li Q, et al. **J Virol** 1997 Jun; 71(6):4657–62

Two distinct oncornaviruses harbor an intracytoplasmic tyrosine-based basolateral targeting signal in their viral envelope glycoprotein. Lodge R, et al. **J Virol** 1997 Jul; 71(7):5696–702

Accessory human cytomegalovirus glycoprotein US9 in the unique short component of the viral genome promotes cell-to-cell transmission of virus in polarized epithelial cells. Maidji E, et al. **J Virol** 1996 Dec;70(12):8402–10

Distinct domains of M-T2, the myxoma virus tumor necrosis factor (TNF) receptor homolog, mediate extracellular TNF binding and intracellular apoptosis inhibition. Schreiber M, et al. **J Virol** 1997 Mar;71(3):2171–81

The rotavirus nonstructural glycoprotein NSP4 possesses membrane destabilization activity. Tian P, et al. **J Virol** 1996 Oct;70(10):6973–81

Residue Trp-48 of Tva is critical for viral entry but not for high-affinity binding to the SU glycoprotein of subgroup A avian leukosis and sarcoma viruses. Zingler K, et al. **J Virol** 1996 Nov;70(11):7510–6

Properties and function of nephrocalcin: mechanism of kidney stone inhibition or promotion. Nakagawa Y. **Keio J Med** 1997 Mar;46(1):1–9 (21 ref.)

High glomerular permeability of bikunin despite similarity in charge and hydrodynamic size to serum albumin. Lindström KE, et al. **Kidney Int** 1997 Apr;51(4):1053–8

Matrix metalloproteinases and TIMPS in cultured C57BL/6J-cpk kidney tubules. Rankin CA, et al. **Kidney Int** 1996 Sep;50(3):835–44

Tubular gelatinase A (MMP-2) and its tissue inhibitors in polycystic kidney disease in the Han:SPRD rat. Schaefer L, et al. **Kidney Int** 1996 Jan;49(1):75–81

Attachment glycoproteins and receptor specificity of rat coronaviruses. Gagneten S, et al. **Lab Anim Sci** 1996 Apr; 46(2):159–66

The putative blood-brain barrier transporter for the beta-amyloid binding protein apolipoprotein j is saturated at physiological concentrations. Shayo M, et al. **Life Sci** 1997;60(7):PL115–8

Cerebrovascular transport of Alzheimer's amyloid beta and apolipoproteins J and E: possible anti-amyloidogenic role of the blood-brain barrier. Zlokovic BV. **Life Sci** 1996; 59(18):1483–97 (83 ref.)

Autocrine/paracrine induction of tissue inhibitor of metalloproteinase-1 in Chinese hamster ovary cells by oncostatin M. Malik N, et al. **Matrix Biol** 1995 Oct; 14(8):677–80

Stiparin: a glycoprotein from sea cucumber dermis that aggregates collagen fibrils. Trotter JA, et al. **Matrix Biol** 1996 Jul;15(2):99–110

Age-related patterns of lectin-binding nuclear glycoproteins of hamster liver. Krześlak A, et al. **Mech Ageing Dev** 1996 Sep 30;90(3):223–33

Endocytic trafficking of megalin/RAP · complexes: dissociation of the complexes in late endosomes. Czekay RP, et al. **Mol Biol Cell** 1997 Mar;8(3):517–32

Receptor-mediated endocytosis of fucosylated neoglycoprotein by macrophages. Sarkar K, et al. **Mol Cell Biochem** 1996 Mar 23;156(2):109–16

Second messengers induced by the envelope protein of a retrovirus. Bolander FF Jr. **Mol Cell Endocrinol** 1997 Apr 25;129(1):27–32

Differential regulation of inhibin/activin alpha- and beta A-subunit and follistin mRNAs by cyclic AMP and phorbol ester in cultured human granulosa-luteal cells. Tuuri T, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):1–10

Effect of gonadotrophin on cell and matrix retention and expression of metalloproteinases and their inhibitor in cultured human granulosa cells modelling corpus luteum function. Aston KE, et al. **Mol Hum Reprod** 1996 Jan; 2(1):26–30

Heparin binding protein-44 (HBP-44)/receptor-associated protein (RAP)mediates cell-substratum adhesion of mouse NIH/3T3 cells through its binding to low density lipoprotein (LDL) receptor-related protein (LRP). Terada H, et al. **Mol Membr Biol** 1997 Apr-Jun;14(2):81–6

Major secretory product of the mesometrial decidua in the rat, a variant of alpha-2-macroglobulin, binds insulin-like growth factor I via a protease-dependent mechanism. da Silva GC, et al. **Mol Reprod Dev** 1996 May;44(1):103–10

Neuregulin-2, a new ligand of ErbB3/ErbB4-receptor tyrosine kinases. Carraway KL 3rd, et al. **Nature** 1997 May 29;387(6632):512–6

Ligands for ErbB-family receptors encoded by a neuregulin-like gene. Chang H, et al. **Nature** 1997 May 29;387(6632):509–12

Relationship between multifunctional protein "clusterin" and Alzheimer disease. Choi-Miura NH, et al. **Neurobiol Aging** 1996 Sep-Oct;17(5):717–22 (76 ref.)

Complement and clusterin in the injured nervous system. Törnqvist E, et al. **Neurobiol Aging** 1996 Sep-Oct; 17(5):695–705

Protein phosphorylation in human peripheral nerve: altered phosphorylation of a 25-kDa glycoprotein in leprosy. Suneetha LM, et al. **Neurochem Res** 1996 Jun;21(6):707–12

Paranodin, a glycoprotein of neuronal paranodal membranes. Menegoz M, et al. **Neuron** 1997 Aug;19(2):319–31

Different patterns of hydrophobic protein storage in different forms of neuronal ceroid lipofuscinosis (NCL, Batten disease). Palmer DN, et al. **Neuropediatrics** 1997 Feb; 28(1):45–8

Sphingolipid activator proteins (SAPs) in neuronal ceroid lipofuscinoses (NCL). Tyynelä J, et al. **Neuropediatrics** 1997 Feb;28(1):49–52 (41 ref.)

GLAST mRNA expression in the periventricular area of experimental hydrocephalus. Masago A, et al. **Neuroreport** 1996 Nov 4;7(15-17):2565–70

Chromaffin granule membrane glycoprotein IV is identical with Ac45, a membrane-integral subunit of the granule's H(+)-ATPase. Getlawi F, et al. **Neurosci Lett** 1996 Nov 15;219(1):13–6

Metabolism of receptor targeted 111In-DTPA-glycoproteins: identification of 111In-DTPA-epsilon-lysine as the primary metabolic and excretory product. Franano FN, et al. **Nucl Med Biol** 1994 Nov;21(8):1023–34

Association of biliary glycoprotein with protein tyrosine phosphatase SHP-1 in malignant colon epithelial cells. Beauchemin N, et al. **Oncogene** 1997 Feb 20;14(7):783–90

Alternative pathway activation of the complement system in preterm infants with early onset infection. Zilow EP, et al. **Pediatr Res** 1997 Mar;41(3):334–9

Surfactant protein A and lamellar bodies: a homologous secretory function of peritoneum, synovium, and lung. Dobbie JW. **Perit Dial Int** 1996 Nov-Dec;16(6):574–81 (43 ref.)

Aberrant trafficking of hepatitis B virus glycoproteins in cells in which N-glycan processing is inhibited. Lu X, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2380–5

Isoform-specific interactions of Na,K-ATPase subunits are mediated via extracellular domains and carbohydrates. Schmalzing G, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1136–41

I2B is a small cytosolic protein that participates in vacuole fusion. Slusarewicz P, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5582–7

Formation of 150-kDa binary complexes of insulin-like growth factor binding protein-3 and the acid-labile subunit in vitro and in vivo. Lee CY, et al. **Prog Growth Factor Res** 1995;6(2-4):241–51 (12 ref.)

Clusterin: a role in cell survival in the face of apoptosis? Koch-Brandt C, et al. **Prog Mol Subcell Biol** 1996; 16:130–49 (95 ref.)

Self-glucosylating initiator proteins and their role in glycogen biosynthesis. Roach PJ, et al. **Prog Nucleic Acid Res Mol Biol** 1997;57:289–316 (60 ref.)

Amino-terminal charge affects the periplasmic accumulation of recombinant heregulin/EGF hybrids exported using the Escherichia coli alkaline phosphatase signal sequence. Campion SR, et al. **Protein Expr Purif** 1997 Aug; 10(3):331–9

A natural variant of type I antifreeze protein with four ice-binding repeats is a particularly potent antifreeze. Chao H, et al. **Protein Sci** 1996 Jun;5(6):1150–6

HMT regulates histamine-induced glycoconjugate secretion from human airways in vitro. Irokawa T, et al. **Respir Physiol** 1997 Jun;108(3):233–40

Interaction of the thiol-dependent reductase ERp57 with nascent glycoproteins. Oliver JD, et al. **Science** 1997 Jan 3;275(5296):86–8

Immunohistochemical study of matrix metalloproteinase-3 and tissue inhibitor of metalloproteinase-1 human intervertebral discs. Kanemoto M, et al. **Spine** 1996 Jan 1;21(1):1–8

Proteolytic specificity of rhodostoxin, the major hemorrhagin of Calloselasma rhodostoma (Malayan pit viper) venom. Tan NH, et al. **Toxicon** 1997 Jun;35(6):979–84

Tumor necrosis factor-induced expression of porcine glycoproteins gp65 and gp100 recognized by human xenoreactive natural antibodies. Vetr H, et al. **Transplantation** 1996 Aug 15;62(3):396–402

Receptors for carbohydrate ligands including heparin on the cell surface of Leishmania and other trypanosomatids. Kock NP, et al. **Trop Med Int Health** 1997 Sep;2(9):863–74

Spike glycoprotein-mediated fusion in biliary glycoprotein-independent cell-associated spread of mouse hepatitis virus infection. Nash TC, et al. **Virology** 1996 Sep 1;223(1):68–78

[Age-dependent distribution of collagen and glycoproteins in the blood vessels of the human uterine tube] Göpel C, et al. **Anat Anz** 1997 Feb;179(1):83–8 (Eng. Abstr.) **(Ger)**

[Dystrophin-glycoprotein complex of skeletal muscle sarcolemma] Jakubiec-Puka A, et al. **Postepy Biochem** 1996;42(2):204–13 (90 ref.) **(Pol)**

PHARMACOKINETICS

Plasma clearance of rat bikunin: evidence for receptor-mediated uptake. Sjöberg EM, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):881–7

Metabolic fate of ulinastatin (2); Pharmacokinetics in rabbits following intra-articular administration. Ohzawa N, et al. **Biol Pharm Bull** 1997 Jul;20(7):732–8

Proliferin transport and binding in the mouse fetus. Jackson D, et al. **Endocrinology** 1997 Jan;138(1):149–55

Absorption and distribution kinetics of the major Parietaria judaica allergen (Par j 1) administered by noninjectable routes in healthy human beings. Bagnasco M, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):122–9

ABC1, an ATP binding cassette transporter required for phagocytosis of apoptotic cells, generates a regulated anion flux after expression in Xenopus laevis oocytes. Becq F, et al. **J Biol Chem** 1997 Jan 31;272(5):2695–9

Uptake of human urinary trypsin inhibitor by the kidney epithelial cell line, LLC-PK1. Yamasaki F, et al. **Pflugers Arch** 1996 Nov-Dec;433(1-2):9–15

PHARMACOLOGY

Involvement of tissue inhibitors of metalloproteinases (TIMPS) during matrix metalloproteinase activation. Nagase H, et al. **Adv Exp Med Biol** 1996;389:23–31 (37 ref.)

IgE-mediated basophil releasability is influenced by intrinsic factors and by IgE on the cell surface. Mita H, et al. **Allergy** 1995 Dec;50(12):952–8

Analysis of heregulin-induced ErbB2 phosphorylation with a high-throughput Kinase receptor activation enzyme-linked immunosorbant assay. Sadick MD, et al. **Anal Biochem** 1996 Mar 15;235(2):207–14

Phosphatidylinositol 3-kinase mediates heregulin-induced growth inhibition in human epithelial cells. Hamburger AW, et al. **Anticancer Res** 1997 May-Jun;17(3C):2197–200

Effects in vitro of pachymatismin, a glycoprotein from the marine sponge Pachymatisma johnstonii, on a non-small-cell bronchopulmonary carcinoma line (NSCLC-N6). Zidane M, et al. **Anticancer Res** 1996 Sep-Oct;16(5A):2805–12

Inhibition of cartilage degradation and changes in physical properties induced by IL-1beta and retinoic acid using matrix metalloproteinase inhibitors. Bonassar LJ, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):404–12

Activation and inhibition of endogenous matrix metalloproteinases in articular cartilage: effects on composition and biophysical properties. Bonassar LJ, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):359–67

Inhibition of IkappaB-alpha and IkappaB-beta proteolysis by calpain inhibitor I blocks nitric oxide synthesis. Milligan SA, et al. **Arch Biochem Biophys** 1996 Nov 15;335(2):388–95

Induction of MAPK phosphorylation by prosaposin and prosaptide in PC12 cells. Campana WM, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):706–12

The role of chondroitin sulfate chains of urinary trypsin inhibitor in inhibition of LPS-induced increase of cytosolic free Ca2+ in HL60 cells and HUVEC cells. Kanayama

N, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):560–4

Regulation of interleukin–13 by type 4 cyclic nucleotide phosphodiesterase (PDE) inhibitors in allergen–specific human T lymphocyte clones. Essayan DM, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):1055–60

Potent inhibition of terminal complement assembly by clusterin: characterization of its impact on C9 polymerization. McDonald JF, et al. **Biochemistry** 1997 Jun 17;36(24):7464–73

C1q is a nucleotide binding protein and is responsible for the ability of clusterin preparations to promote immune complex formation. Roeth PJ, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):159–66

Antiviral substance from silkworm faeces: purification and its chemical characterization. Hiraki A, et al. **Biol Pharm Bull** 1997 May;20(5):547–55

Soluble material from Reissner's fiber displays anti–aggregative activity in primary cultures of chick cortical neurons. Monnerie H, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):120–9

Protective effect of human ulinastatin against gentamicin–induced acute renal failure in rats. Nakakuki M, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):104–11

Efficacy of an experimental BHV–1 subunit gIV vaccine in beef calves challenged with BHV–1 in aerosol. Van Donkersgoed J, et al. **Can J Vet Res** 1996 Jan;60(1):55–8

Heregulin induces increase in sensitivity of an erbB–2–overexpressing breast cancer cell type to lysis by lymphokine–activated killer cells. Cardillo M, et al. **Cancer Immunol Immunother** 1996 Sep;43(1):19–25

Tumor–peptide–pulsed dendritic cells isolated from spleen or cultured in vitro from bone marrow precursors can provide protection against tumor challenge. Hermans IF, et al. **Cancer Immunol Immunother** 1997 Aug;44(6):341–7

Neu differentiation factor induces ErbB2 down–regulation and apoptosis of ErbB2–overexpressing breast tumor cells. Daly JM, et al. **Cancer Res** 1997 Sep 1;57(17):3804–11

Carcinoembryonic antigen induces cytokine expression in Kuppfer cells: implications for hepatic metastasis from colorectal cancer. Gangopadhyay A, et al. **Cancer Res** 1996 Oct 15;56(20):4805–10

Heregulin (HRG)–induced mitogenic signaling and cytotoxic activity of a HRG/PE40 ligand toxin in human breast cancer cells. Fiddes RJ, et al. **Cell Growth Differ** 1995 Dec; 6(12):1567–77

Heregulin induces in vivo proliferation and differentiation of mammary epithelium into secretory lobuloalveoli. Jones FE, et al. **Cell Growth Differ** 1996 Aug;7(8):1031–8

Reissner's fibre promotes neuronal aggregation and influences neuritic outgrowth in vitro. Monnerie H, et al. **Cell Tissue Res** 1997 Feb;287(2):285–95

Involvement of beta 2–glycoprotein I and anticardiolipin antibodies in oxidatively modified low–density lipoprotein uptake by macrophages. Hasunuma Y, et al. **Clin Exp Immunol** 1997 Mar;107(3):569–73

Ulinastatin, a human trypsin inhibitor, inhibits endotoxin–induced thromboxane B2 production in human monocytes. Aibiki M, et al. **Crit Care Med** 1997 Mar; 25(3):430–4

Heregulin–stimulated acetylcholine receptor gene expression in muscle: requirement for MAP kinase and evidence for a parallel inhibitory pathway independent of electrical activity. Altiok N, et al. **EMBO J** 1997 Feb 17;16(4):717–25

Proliferin induces endothelial cell chemotaxis through a G protein–coupled, mitogen–activated protein kinase–dependent pathway. Groskopf JC, et al. **Endocrinology** 1997 Jul;138(7):2835–40

Specific inhibition of insulin–like growth factor–1 and insulin receptor tyrosine kinase activity and biological function by tyrphostins. Párrizas M, et al. **Endocrinology** 1997 Apr; 138(4):1427–33

The insulin–like growth factor II/mannose 6–phosphate receptor is required for proliferin–induced angiogenesis. Volpert O, et al. **Endocrinology** 1996 Sep;137(9):3871–6

Accumulation of sphingolipids in SAP–precursor (prosaposin)–deficient fibroblasts occurs as intralysosomal membrane structures and can be completely reversed by treatment with human SAP–precursor. Burkhardt JK, et al. **Eur J Cell Biol** 1997 May;73(1):10–8

Urinary trypsin inhibitor efficiently inhibits urokinase production in tumor necrosis factor–stimulated cells. Kobayashi H, et al. **Eur J Cell Biol** 1996 Dec;71(4):380–6

Clusterin (SGP–2) induction in rat astroglial cells exposed to prion protein fragment 106–126. Chiesa R, et al. **Eur J Neurosci** 1996 Mar;8(3):589–97

Opposing effects of activin A and follistatin on developing skeletal muscle cells. Link BA, et al. **Exp Cell Res** 1997 Jun 15;233(2):350–62

Differential effects of EGF and amphiregulin on adhesion molecule expression and migration of colon carcinoma cells. Solic N, et al. **Exp Cell Res** 1997 Aug 1;234(2):465–76

Kinetics of antifreeze protein–induced ice growth inhibition. Chapsky L, et al. **FEBS Lett** 1997 Jul 21;412(1):241–4

Only sphingolipid activator protein B (SAP–B or saposin B) stimulates the degradation of globotriaosylceramide by recombinant human lysosomal alpha–galactosidase in a detergent–free liposomal system. Kase R, et al. **FEBS Lett** 1996 Sep 9;393(1):74–6

Limulus factor D, a 43–kDa protein isolated from horseshoe crab hemocytes, is a serine protease homologue with antimicrobial activity. Kawabata S, et al. **FEBS Lett** 1996 Dec 2;398(2–3):146–50

Effects of somatolactin on melanosome aggregation in the melanophores of red drum (Sciaenops ocellatus) scales. Zhu Y, et al. **Gen Comp Endocrinol** 1997 Jan;105(1):127–33

Novel glycoproteins inhibiting the binding of colorectal cancer cells to E–selectin. Inoue M, et al. **Glycoconj J** 1997 Jan;14(1):147–53

Induction of anchorage–independent growth by amphiregulin. Adam RM, et al. **Growth Factors** 1996; 13(3–4):193–203

Restrictin–P/stromal activin A, kills its target cells via an apoptotic mechanism. Sternberg D, et al. **Growth Factors** 1995;12(4):277–87

Effects of urinary trypsin inhibitor on myometrial contraction in term and preterm deliveries. El Maradny E, et al. **Gynecol Obstet Invest** 1996;41(2):96–102

Induction of capacitation in human spermatozoa in vitro by an endometrial sialic acid–binding protein. Banerjee M, et al. **Hum Reprod** 1995 Dec;10(12):3147–53

A viral ER–resident glycoprotein inactivates the MHC–encoded peptide transporter. Hengel H, et al. **Immunity** 1997 May;6(5):623–32

Effect of hot water extract of Chlorella vulgaris on cytokine expression patterns in mice with murine acquired immunodeficiency syndrome after infection with Listeria monocytogenes. Hasegawa T, et al. **Immunopharmacology** 1997 Jan;35(3):273–82

The effect of ulinastatin on cutaneous microcirculation during inhalation of 100% oxygen in a rabbit ear chamber. Shiotani M, et al. **In Vivo** 1997 Mar–Apr;11(2):173–7

Breast cancer; tumor neovasculature and the effect of tissue inhibitor of metalloproteinases–1 (TIMP–1) on angiogenesis. Thorgeirsson UP, et al. **In Vivo** 1996 Mar–Apr;10(2):137–44

In vivo effect of pachymatismin, a new marine glycoprotein, on a human non–small–cell lung carcinoma. Zidane M, et al. **In Vivo** 1997 Mar–Apr;11(2):185–8

Binding of pulmonary surfactant proteins A and D to Aspergillus fumigatus conidia enhances phagocytosis and killing by human neutrophils and alveolar macrophages. Madan T, et al. **Infect Immun** 1997 Aug;65(8):3171–9

A peptide derived from neutrophil inhibitory factor (NIF) blocks neutrophil adherence to endothelial cells. Madden K, et al. **Inflamm Res** 1997 Jun;46(6):216–23

Characterization of the specificity and duration of T cell tolerance to intranasally administered peptides in mice: a role for intramolecular epitope suppression. Hoyne GF, et al. **Int Immunol** 1997 Aug;9(8):1165–73

Fel d 1 peptides: effect on skin tests and cytokine synthesis in cat–allergic human subjects. Simons FE, et al. **Int Immunol** 1996 Dec;8(12):1937–45

Intra–tumoral application of a heregulin–exotoxin–a fusion protein causes rapid tumor regression without adverse systemic or local effects. Groner B, et al. **Int J Cancer** 1997 Mar 17;70(6):682–7

Epidermal growth factor and amphiregulin up–regulate matrix metalloproteinase–9 (MMP–9) in human breast cancer cells. Kondapaka SB, et al. **Int J Cancer** 1997 Mar 17;70(6):722–6

Voltage–dependent calcium channels and Gi regulatory protein mediate the human sperm acrosomal exocytosis induced by N–acetylglucosaminyl/mannosyl neoglycoproteins. Brandelli A, et al. **J Androl** 1996 Sep–Oct;17(5):522–9

Characterization of placental bikunin, a novel human serine protease inhibitor. Delaria KA, et al. **J Biol Chem** 1997 May 2;272(18):12209–14

Preparation and characterization of recombinant tissue inhibitor of metalloproteinase 4 (TIMP–4). Liu YE, et al. **J Biol Chem** 1997 Aug 15;272(33):20479–83

The mechanism of inhibition of collagenase by TIMP–1. Taylor KB, et al. **J Biol Chem** 1996 Sep 27; 271(39):23938–45

Effect of saposins A and C on the enzymatic hydrolysis of liposomal glucosylceramide. Vaccaro AM, et al. **J Biol Chem** 1997 Jul 4;272(27):16862–7

Human stanniocalcin inhibits renal phosphate excretion in the rat. Wagner GF, et al. **J Bone Miner Res** 1997 Feb; 12(2):165–71

A human urinary protease inhibitor (ulinastatin) inhibits neutrophil extracellular release of elastase during cardiopulmonary bypass. Hiyama A, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):580–4

NDF induces expression of a novel 46 kD protein in estrogen receptor positive breast cancer cells. Kumar R, et al. **J Cell Biochem** 1996 Jul;62(1):102–12

Axonal neuregulin signals cells of the oligodendrocyte lineage through activation of HER4 and Schwann cells through HER2 and HER3. Vartanian T, et al. **J Cell Biol** 1997 Apr 7;137(1):211–20

Polymorphonuclear leucocyte (PMN) inhibitory factor prevents PMN–dependent endothelial cell injury by an anti–adhesive mechanism. Ohno S, et al. **J Cell Physiol** 1997 May;171(2):212–6

Effects of antifreeze proteins on red blood cell survival during cryopreservation. Chao H, et al. **J Exp Biol** 1996 Sep;199 (Pt 9):2071–6

Soluble and membrane–bound forms of signaling lymphocytic activation molecule (SLAM) induce proliferation and Ig synthesis by activated human B lymphocytes. Punnonen J, et al. **J Exp Med** 1997 Mar 17; 185(6):993–1004

Selective activation of CD8 T cell effector functions by epitope variants of lymphocytic choriomeningitis virus glycoprotein. Martin S, et al. **J Immunol** 1996 Sep 15; 157(6):2358–65

Induction of apoptotic nuclei by interferon–gamma and by predesquamin in cultured keratinocytes. Brysk MM, et al. **J Interferon Cytokine Res** 1995 Dec;15(12):1029–35

A novel action of collapsin: collapsin–1 increases antero– and retrograde axoplasmic transport independently of growth cone collapse. Goshima Y, et al. **J Neurobiol** 1997 Sep;33(3):316–28

A hydrophilic peptide comprising 18 amino acid residues of the prosaposin sequence has neurotrophic activity in vitro and in vivo. Kotani Y, et al. **J Neurochem** 1996 May; 66(5):2197–200

Prosaposin facilitates sciatic nerve regeneration in vivo. Kotani Y, et al. **J Neurochem** 1996 May;66(5):2019–25

Rac1 mediates collapsin–1–induced growth cone collapse. Jin Z, et al. **J Neurosci** 1997 Aug 15;17(16):6256–63

Nerve terminal withdrawal from rat neuromuscular junctions induced by neuregulin and Schwann cells. Trachtenberg JT, et al. **J Neurosci** 1997 Aug 15;17(16):6243–55

Inhibition of tryptase TL2 from human T4+ lymphocytes and inhibition of HIV–1 replication in H9 cells by recombinant aprotinin and bikunin homologues. Brinkmann T, et al. **J Protein Chem** 1997 Aug;16(6):651–60

Effects of urinastatin and free radical scavengers on hepatic lipid peroxidation in endotoxemia. Htwe T, et al. **J Surg Res** 1996 Feb 15;61(1):206–14

Glycodelins GdA and GdS modified by 3–hydroxyphthalic anhydride inhibit gp120–CD4 binding and HIV–1 infection in vitro. Seppälä M, et al. **Lab Invest** 1997 Aug;77(2):127–30

Suppressed bone induction by follistatin in spontaneously hypercholesterolemic rat bone. Funaba M, et al. **Life Sci** 1997;61(6):653–8

Effect of beta 2glycoprotein I and human monoclonal anticardiolipin antibody on the protein S/C4b–binding protein system [see comments] Atsumi T, et al. **Lupus** 1997; 6(4):358–64. Comment in: Lupus 1997 ;6(4):351–2.

A hierarchical network of interreceptor interactions determines signal transduction by Neu differentiation factor/neuregulin and epidermal growth factor. Tzahar E, et al. **Mol Cell Biol** 1996 Oct;16(10):5276–87

Follistatins neutralize activin bioactivity by inhibition of activin binding to its type II receptors. de Winter JP, et al. **Mol Cell Endocrinol** 1996 Jan 15;116(1):105–14

Development of a dose–response bioassay for stanniocalcin in fish. Wagner GF, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):19–28

Binding of boar spermatozoa to porcine oocytes: effect of low molecular weight 17–kDa protein. Capková J, et al. **Mol Reprod Dev** 1997 Feb;46(2):168–75

Influence of ovine oviducal amino acid concentrations and an ovine oestrus–associated glycoprotein on development and viability of bovine embryos. Hill JL, et al. **Mol Reprod Dev** 1997 Jun;47(2):164–9

Effect of estrus–associated glycoprotein and tissue inhibitor of metalloproteinase–1 secreted by oviduct cells on in vitro bovine embryo development. Vansteenbrugge A, et al. **Mol Reprod Dev** 1997 Apr;46(4):527–34

Cytoprotective effect of ulinastatin on LLC–PK1 cells treated with antimycin A, gentamicin, and cisplatin. Ishibashi M, et al. **Nephron** 1997;76(3):300–6

Protective action of ulinastatin against cisplatin nephrotoxicity in mice and its effect on the lysosomal fragility. Yamasaki F, et al. **Nephron** 1996;74(1):158–67

Neuroprotective effect of recombinant neutrophil inhibitory factor in transient focal cerebral ischaemia in the rat. Mackay KB, et al. **Neurodegeneration** 1996 Dec;5(4):319–23

Neuregulin and erbB receptors play a critical role in neuronal migration. Rio C, et al. **Neuron** 1997 Jul;19(1):39–50

Trophoblastic apoptosis in mice with preterm delivery and its suppression by urinary trypsin inhibitor. Kakinuma C, et al. **Obstet Gynecol** 1997 Jul;90(1):117–24

Cell death prevention, mitogen–activated protein kinase stimulation, and increased sulfatide concentrations in Schwann cells and oligodendrocytes by prosaposin and prosaptides. Hiraiwa M, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4778–81

Neuregulins stimulate the functional expression of Ca2+–activated K+ channels in developing chicken parasympathetic neurons. Subramony P, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5934–8

Cell death in the Schwann cell lineage and its regulation by neuregulin. Syroid DE, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9229–34

The effect of ulinastatin on CFU–C colony formation in mouse myelocyte cultures. Endo S, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan;95(1):109–12

Attenuation of the inflammatory response in an animal colitis model by neutrophil inhibitory factor, a novel beta 2–integrin antagonist. Meenan J, et al. **Scand J Gastroenterol** 1996 Aug;31(8):786–91

[Stimulation trials of trophoblast cells in vitro using PP14] Jeschke U, et al. **Z Geburtshilfe Neonatol** 1996 Sep–Oct; 200(5):199–201 (Eng. Abstr.) **(Ger)**

[Effect of ulinastatin on delayed neuronal death in the gerbil hippocampus] Abe H, et al. **Masui** 1996 Jan;45(1):38–43 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Characterization of beta2–glycoprotein I–dependent and

-independent "antiphospholipid" antibodies from lupus-prone NZW/BXSB F1 hybrid male mice. Thiagarajan P, et al. **Am J Hematol** 1997 Oct;56(2):86-92

Interactions of recombinant human pulmonary surfactant protein D and SP-D multimers with influenza A. Hartshorn K, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L753-62

Frzb-1, an antagonist of Wnt-1 and Wnt-8, does not block signaling by Wnts -3A, -5A, or -11. Wang S, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):502-4

SC1, a SPARC-related glycoprotein, exhibits features of an ECM component in the developing and adult brain. Mendis DB, et al. **Brain Res** 1996 Mar 25;713(1-2):53-63

The significance of heregulin in breast cancer tumor progression and drug resistance. Lupu R, et al. **Breast Cancer Res Treat** 1996;38(1):57-66 (53 ref.)

Osteoprotegerin: a novel secreted protein involved in the regulation of bone density [see comments] Simonet WS, et al. **Cell** 1997 Apr 18;89(2):309-19. Comment in: Cell 1997 Apr 18;89(2):159-61.

Requisite role of angiopoietin-1, a ligand for the TIE2 receptor, during embryonic angiogenesis [see comments] Suri C, et al. **Cell** 1996 Dec 27;87(7):1171-80. Comment in: Cell 1996 Dec 27;87(7):1153-5.

Phosphatidylinositol 3-kinase recruitment by p185erbB-2 and erbB-3 is potently induced by neu differentiation factor/heregulin during mitogenesis and is constitutively elevated in growth factor-independent breast carcinoma cells with c-erbB-2 gene amplification. Ram TG, et al. **Cell Growth Differ** 1996 May;7(5):551-61

Directed mutagenesis reveals that two histidines in tissue inhibitor of metalloproteinase-1 are each essential for the suppression of cell migration, invasion, and tumorigenicity. Walther SE, et al. **Cell Growth Differ** 1996 Nov; 7(11):1579-88

The structure and function of surfactant protein-A. McCormack F. **Chest** 1997 Jun;111(6 Suppl):114S-119S (57 ref.)

Glycodelins as regulators of early events of reproduction. Seppälä M, et al. **Clin Endocrinol (Oxf)** 1997 Apr; 46(4):381-6 (46 ref.)

Neuregulins as potential drugs for neurological disorders. Marchionni MA, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:459-72 (64 ref.)

The role of neuregulin (ARIA) at the neuromuscular junction. Rosen KM, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:427-34 (52 ref.)

Neuregulins and neuregulin receptors in neural development. Gassmann M, et al. **Curr Opin Neurobiol** 1997 Feb; 7(1):87-92 (48 ref.)

Synergistic effects of Vg1 and Wnt signals in the specification of dorsal mesoderm and endoderm. Cui Y, et al. **Dev Biol** 1996 Nov 25;180(1):22-34

Matrix metalloproteinases regulate morphogenesis, migration and remodeling of epithelium, tongue skeletal muscle and cartilage in the mandibular arch. Chin JR, et al. **Development** 1997 Apr;124(8):1519-30

Pituitary follistatin regulates activin-mediated production of follicle-stimulating hormone during the rat estrous cycle. Besecke LM, et al. **Endocrinology** 1997 Jul;138(7):2841-8

Gonadotropin-releasing hormone regulates follicle-stimulating hormone-beta gene expression through an activin/follistatin autocrine or paracrine loop. Besecke LM, et al. **Endocrinology** 1996 Sep;137(9):3667-73

The semaphorins: a family of axonal guidance molecules? Püschel AW. **Eur J Neurosci** 1996 Jul;8(7):1317-21 (37 ref.)

Inhibin, activin, and follistatin in reproductive medicine. Halvorson LM, et al. **Fertil Steril** 1996 Mar;65(3):459-69 (110 ref.)

Roles of inhibins, activins, and follistatin in the female reproductive system. Knight PG. **Front Neuroendocrinol** 1996 Oct;17(4):476-509 (231 ref.)

The pronase resistance of cholesterol-nucleating glycoproteins in human bile. Zijlstra AI, et al. **Gastroenterology** 1996 Jun;110(6):1926-35

Schwann cell heparan sulfate proteoglycans play a critical role in glial growth factor/neuregulin signaling. Sudhalter J, et al. **Glia** 1996 May;17(1):28-38

A single residue exchange within a viral CTL epitope alters proteasome-mediated degradation resulting in lack of antigen presentation. Ossendorp F, et al. **Immunity** 1996 Aug;5(2):115-24

Roles for calreticulin and a novel glycoprotein, tapasin, in the interaction of MHC class I molecules with TAP. Sadasivan B, et al. **Immunity** 1996 Aug;5(2):103-14

The matrix metalloproteinases and their inhibitors in pancreatic cancer. From molecular science to a clinical application. Bramhall SR. **Int J Pancreatol** 1997 Feb; 21(1):1-12 (100 ref.)

The HTLV-I envelope glycoproteins: structure and functions. Delamarre L, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996;13 Suppl 1:S85-91 (54 ref.)

Soluble and membrane-bound forms of signaling lymphocytic activation molecule (SLAM) induce proliferation and Ig synthesis by activated human B lymphocytes. Punnonen J, et al. **J Exp Med** 1997 Mar 17; 185(6):993-1004

Mouse hepatitis virus strain A59 is released from opposite sides of different epithelial cell types. Rossen JW, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):61-9

Engagement of the signaling lymphocytic activation molecule (SLAM) on activated T cells results in IL-2-independent, cyclosporin A-sensitive T cell proliferation and IFN-gamma production. Aversa G, et al. **J Immunol** 1997 May 1;158(9):4036-44

Anti-phospholipid autoantibodies bind to apoptotic, but not viable, thymocytes in a beta 2-glycoprotein I-dependent manner. Price BE, et al. **J Immunol** 1996 Sep 1; 157(5):2201-8

Glycoproteins of myelin sheaths. Quarles RH. **J Mol Neurosci** 1997 Feb;8(1):1-12 (90 ref.)

Axonal interactions regulate Schwann cell apoptosis in developing peripheral nerve: neuregulin receptors and the role of neuregulins. Grinspan JB, et al. **J Neurosci** 1996 Oct 1;16(19):6107-18

beta 2-Glycoprotein-I is a cofactor for antibodies reacting with 5 anionic phospholipids [letter] Verrier Jones J, et al. **J Rheumatol** 1995 Oct;22(10):2009

Glycoprotein Erns of pestiviruses induces apoptosis in lymphocytes of several species. Bruschke CJ, et al. **J Virol** 1997 Sep;71(9):6692-6

Characterization of Borna disease virus p56 protein, a surface glycoprotein involved in virus entry. Gonzalez-Dunia D, et al. **J Virol** 1997 Apr;71(4):3208-18

A single amino acid substitution in the transmembrane envelope glycoprotein of feline immunodeficiency virus alters cellular tropism. Vahlenkamp TW, et al. **J Virol** 1997 Sep;71(9):7132-5

The activin-binding protein follistatin regulates autocrine endothelial cell activity and induces angiogenesis. Kozian DH, et al. **Lab Invest** 1997 Feb;76(2):267-76

The dorsalizing and neural inducing gene follistatin is an antagonist of BMP-4. Fainsod A, et al. **Mech Dev** 1997 Apr;63(1):39-50

Combinatorial signalling by Xwnt-11 and Xnr3 in the organizer epithelium. Glinka A, et al. **Mech Dev** 1996 Dec; 60(2):221-31

Assessment of immunity induced in mice by glycoproteins derived from different strains and species of Leishmania. Dabés Guimarães TM, et al. **Mem Inst Oswaldo Cruz** 1996 Jan-Feb;91(1):63-70

Characterization of a neuregulin-related gene, Don-1, that is highly expressed in restricted regions of the cerebellum and hippocampus. Busfield SJ, et al. **Mol Cell Biol** 1997 Jul;17(7):4007-14

Neuregulins in development. Lemke G. **Mol Cell Neurosci** 1996 Apr;7(4):247-62 (102 ref.)

Embryonic development of Schwann cells: multiple roles for neuregulins along the pathway. Topilko P, et al. **Mol Cell Neurosci** 1996;8(2-3):71-5 (46 ref.)

Species-specific effect of oviductal glycoproteins on hamster sperm binding to hamster oocytes. Schmidt A, et al. **Mol Reprod Dev** 1997 Feb;46(2):201-7

Semaphorin III is needed for normal patterning and growth of nerves, bones and heart. Behar O, et al. **Nature** 1996 Oct 10;383(6600):525-8

Initiation of vertebrate left-right axis formation by maternal Vg1. Hyatt BA, et al. **Nature** 1996 Nov 7;384(6604):62-5

The zebrafish organizer requires chordino [letter] Schulte-Merker S, et al. **Nature** 1997 Jun 26; 387(6636):862-3

Neuregulins and their receptors: a versatile signaling module in organogenesis and oncogenesis. Burden S, et al. **Neuron** 1997 Jun;18(6):847-55 (48 ref.)

Motor axon subpopulations respond differentially to the chemorepellents netrin-1 and semaphorin D. Varela-Echavarría A, et al. **Neuron** 1997 Feb;18(2):193-207

Role of urinary trypsin inhibitor in the maintenance of pregnancy in mice. Kaga N, et al. **Obstet Gynecol** 1996 Nov;88(5):872-82

Inhibin, activin and follistatin in the human placenta--a new family of regulatory proteins. Petraglia F. **Placenta** 1997 Jan;18(1):3-8 (57 ref.)

Inhibins, activins, and follistatins: the saga continues. DePaolo LV. **Proc Soc Exp Biol Med** 1997 Apr; 214(4):328-39 (136 ref.)

Activins, inhibins, and follistatins: further thoughts on a growing family of regulators. Mather JP, et al. **Proc Soc Exp Biol Med** 1997 Jul;215(3):209-22 (175 ref.)

Functions and regulation of the acid-labile subunit of the 150 K complex. Barreca A, et al. **Prog Growth Factor Res** 1995;6(2-4):231-9

Maintenance of acetylcholine receptor number by neuregulins at the neuromuscular junction in vivo. Sandrock AW Jr, et al. **Science** 1997 Apr 25; 276(5312):599-603

beta 2 glycoprotein-I inhibits factor XII activation on triglyceride rich lipoproteins: the effect of antibodies from plasma of patients with antiphospholipid syndrome. McNally T, et al. **Thromb Haemost** 1996 Aug;76(2):220-5

beta 2-Glycoprotein I modulates the anticoagulant activity of activated protein C on the phospholipid surface. Mori T, et al. **Thromb Haemost** 1996 Jan;75(1):49-55

RADIATION EFFECTS

Ultraviolet B wavelength dependence for the regulation of two major matrix-metalloproteinases and their inhibitor TIMP-1 in human dermal fibroblasts [corrected and republished article originally printed in 1996 Oct;64(4):649-57] Brenneisen P, et al. **Photochem Photobiol** 1996 Nov;64(5):877-85

SECRETION

Biochemical studies on the secretion of glycoproteins by isolated ciliary body of rabbits. Bertazolli Filho R, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):343-7

Dexamethasone inhibits mucous glycoprotein secretion via a phospholipase A2-dependent mechanism in cultured chinchilla middle ear epithelial cells. Lin J, et al. **Acta Otolaryngol (Stockh)** 1997 May;117(3):406-13

Effects of platelet-activating factor (PAF) receptor blockage on mucous glycoprotein secretion in cultured chinchilla middle ear epithelium. Lin J, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):69-73

Effect of lipoxygenase inhibition on mucous glycoprotein secretion from chinchilla middle ear epithelial cells in vitro. Lin J, et al. **Ann Otol Rhinol Laryngol** 1996 Nov; 105(11):916-21

A sensory axon repellent secreted from ventral spinal cord explants is neutralized by antibodies raised against collapsin-1. Shepherd IT, et al. **Development** 1997 Apr; 124(7):1377-85

Effects of LHRH, FSH and activin A on follistatin secretion from cultured rat anterior pituitary cells. Liu ZH, et al. **Endocr J** 1996 Jun;43(3):321-7

Matrix metalloproteinase-2 and tissue inhibitor of metalloproteinase-1 in the retinal pigment epithelium and interphotoreceptor matrix: vectorial secretion and regulation. Padgett LC, et al. **Exp Eye Res** 1997 Jun; 64(6):927-38

Effects of hypothalamic factors on somatolactin secretion from the organ-cultured pituitary of rainbow trout. Kakizawa S, et al. **Gen Comp Endocrinol** 1997 Jan; 105(1):71-8

The role of relaxin in glycodelin secretion. Stewart DR, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):839-46

Human liposarcoma cell line, SW872, secretes cholesteryl ester transfer protein in response to cholesterol. Richardson MA, et al. **J Lipid Res** 1996 May;37(5):1162-6

N-linked oligosaccharide processing is not necessary for glycoprotein secretion in plants. Lerouge P, et al. **Plant J** 1996 Oct;10(4):713-9

Effects of PGE2 on amount and composition of high molecular weight glycoproteins released by human gastric mucous cells in primary culture. Enss ML, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Feb; 56(2):93-8

THERAPEUTIC USE

Production of recombinant allergens and their application for immunotherapy. Okumura Y. **Adv Exp Med Biol** 1996; 409:163-71 (6 ref.)

Effects of immunotherapy on symptoms, PEFR, spirometry, and airway responsiveness in patients with allergic asthma to house-dust mites (D. pteronyssinus) on inhaled steroid therapy. Costa JC, et al. **Allergy** 1996 Apr;51(4):238-44

Immunotherapy with standardized extract of Dermatophagoides pteronyssinus in bronchial asthma: a dose-titration study. Olaguibel JM, et al. **Allergy** 1997 Feb; 52(2):168-78

House dust mite immunotherapy results in a decrease in Der p 2-specific IFN-gamma and IL-4 expression by circulating T lymphocytes. O'Brien RM, et al. **Clin Exp Allergy** 1997 Jan;27(1):46-51

Urinary trypsin inhibitor: a new drug to treat preterm labor: a comparative study with ritodrine. Kanayama N, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug;67(2):133-8

Ulinastatin ameliorates acute ischemic renal injury in rats. Nakahama H, et al. **Ren Fail** 1996 Nov;18(6):893-8

[Effects of ulinastatin on experimental ulcerative colitis in rats] Nagao Y, et al. **Nippon Yakurigaku Zasshi** 1997 Jan; 109(1):41-52 (Eng. Abstr.) **(Jpn)**

TOXICITY

Involvement of the RE V3 gene in the methylated base-excision repair system. Co-operation of two DNA polymerases, delta and Rev3p, in the repair of MMS-induced lesions in the DNA of Saccharomyces cerevisiae. Halas A, et al. **Curr Genet** 1997 Apr; 31(4):292-301

Corpuscles of Stannius-extract-induced rapid but transient hypocalcemia and hyperphosphatemia in stingray, Dasyatis akajei. Srivastav AK, et al. **Gen Comp Endocrinol** 1996 Oct; 104(1):37-40

Human chromosome aberrations induced in vitro by Paracoccidioides brasiliensis glycoproteic component (GP 43). Freire-Maia DV, et al. **Mutat Res** 1997 Apr 24; 390(1-2):5-10

Cardiotoxicity of verrucotoxin, a protein isolated from the venom of Synanceia verrucosa. Garnier P, et al. **Toxicon** 1997 Jan;35(1):47-55

Cerastatin, a new potent inhibitor of platelet aggregation from the venom of the Tunisian viper, Cerastes cerastes. Marrakchi N, et al. **Toxicon** 1997 Jan;35(1):125-35

ULTRASTRUCTURE

Ultrastructural localization of Charcot-Leyden crystal protein in human eosinophils and basophils. Calafat J, et al. **Eur J Haematol** 1997 Jan;58(1):56-66

Crystal structure of arcelin-5, a lectin-like defense protein from Phaseolus vulgaris. Hamelryck TW, et al. **J Biol Chem** 1996 Dec 20;271(51):32796-802

GLYCOPROTEINS

URINE

alpha-Glucosidase and N-acetylglucosamine-6-sulphatase are the major mannose-6-phosphate glycoproteins in human urine. Sleat DE, et al. **Biochem J** 1997 May 15;324 (Pt 1):33-9

Further evidence for the mitogenic action of urinary trypsin inhibitor. Manilal SB, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):711-20

Increase of bikunin and alpha1-microglobulin concentrations in urine of rats during pregnancy is due to decreased tubular reabsorption. Blom AM, et al. **Biochim Biophys Acta** 1997 Aug 22;1361(2):198-202

Changes in the ratio of urinary alpha 1-microglobulin to ulinastatin levels in patients with psychiatric diseases. Inagaki T, et al. **Biol Psychiatry** 1996 Oct 15;40(8):800-3

Changes in the ratio of urinary alpha 1-microglobulin to ulinastatin levels in patients with Alzheimer-type dementia and vascular dementia. Inagaki T, et al. **Psychiatry Clin Neurosci** 1995 Dec;49(5-6):287-90

Non-existence of a positive correlation between urinary levels of alpha 1-microglobulin and ulinastatin in patients with Parkinson's disease. Inagaki T, et al. **Psychiatry Clin Neurosci** 1996 Aug;50(4):231-3

Nullification of a positive correlation between urinary levels of alpha 1-microglobulin and ulinastatin by 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) in mice. Shikimi T, et al. **Psychoneuroendocrinology** 1997 May; 22(4):269-75

[Significance of postoperative elevation of urinary ulinastatin after open heart surgery under cardiopulmonary bypass] Ueki M, et al. **Masui** 1997 Feb;46(2):173-6 (Eng. Abstr.) **(Jpn)**

[Postoperative urinary ulinastatin secretion and renal function in hepatectomized patients with and without liver cirrhosis] Ueki M, et al. **Masui** 1996 Feb;45(2):178-82 (Eng. Abstr.) **(Jpn)**

[Changes of urinary ulinastatin and serum CRP after elective surgery for gastric cancer] Ueki M, et al. **Masui** 1996 Aug; 45(8):933-6 (Eng. Abstr.) **(Jpn)**

[Urinary excretion of ulinastatin and NAG after cardiopulmonary bypass] Yokono S, et al. **Masui** 1997 Mar; 46(3):388-92 (Eng. Abstr.) **(Jpn)**

GLYCOPYRROLATE

ADMINISTRATION & DOSAGE

The effects of reversal of neuromuscular blockade on autonomic control in the perioperative period. van Vlymen JM, et al. **Anesth Analg** 1997 Jan;84(1):148-54

Preoperative glycopyrrolate: oral, intramuscular, or intravenous administration. Bernstein CA, et al. **J Clin Anesth** 1996 Sep;8(6):515-8

PHARMACOLOGY

Cardiopulmonary and gastrointestinal motility effects of xylazine/ketamine-induced anesthesia in horses previously treated with glycopyrrolate. Singh S, et al. **Am J Vet Res** 1996 Dec;57(12):1762-70

Anticholinergics improve fibreoptic intubating conditions during general anaesthesia. Brookman CA, et al. **Can J Anaesth** 1997 Feb;44(2):165-7

Modification of cardiopulmonary and intestinal motility effects of xylazine with glycopyrrolate in horses. Singh S, et al. **Can J Vet Res** 1997 Apr;61(2):99-107

THERAPEUTIC USE

The effect of glycopyrrolate on postoperative pain and analgesic requirements following laparoscopic sterilisation. Guard BC, et al. **Anaesthesia** 1996 Dec;51(12):1173-5

Management of secretions in esophageal cancer patients with glycopyrrolate. Rashid H, et al. **Ann Oncol** 1997 Feb; 8(2):198-9

A randomised controlled trial of topical glycopyrrolate, the first specific treatment for diabetic gustatory sweating. Shaw JE, et al. **Diabetologia** 1997 Mar;40(3):299-301

Comparison of nebulized glycopyrrolate and metaproterenol in chronic obstructive pulmonary disease. Tzelepis G, et al. **Eur Respir J** 1996 Jan;9(1):100-3

Preliminary study of glycopyrrolate in the management of drooling. Stern LM. **J Paediatr Child Health** 1997 Feb; 33(1):52-4

GLYCOSAMINOGLYCANS

Recent advances in tissue synthesis in vivo by use of collagen-glycosaminoglycan copolymers. Ellis DL, et al. **Biomaterials** 1996 Feb;17(3):291-9 (70 ref.)

Matrix collagen type and pore size influence behaviour of seeded canine chondrocytes. Nehrer S, et al. **Biomaterials** 1997 Jun;18(11):769-76

Canine chondrocytes seeded in type I and type II collagen implants investigated in vitro. Nehrer S, et al. **J Biomed Mater Res** 1997 Summer;38(2):95-104

ADMINISTRATION & DOSAGE

Increased glomerular alpha 1 (IV) collagen expression and deposition in long-term diabetic rats is prevented by chronic glycosaminoglycan treatment. Ceol M, et al. **Lab Invest** 1996 Feb;74(2):484-95

Effects of low doses of glycosaminoglycans and insulin-like growth factor-I on motor neuron disease in wobbler mouse. Vergani L, et al. **Neurosci Lett** 1997 May 30;228(1):41-4

The anticoagulant and hemorrhagic effects of DHG, a new depolymerized holothurian glycosaminoglycan, on experimental hemodialysis in dogs. Minamiguchi K, et al. **Thromb Haemost** 1997 Jun;77(6):1148-53

Vascular dementia Italian sulodexide study (VA.D.I.S.S.). Clinical and biological results. Parnetti L, et al. **Thromb Res** 1997 Jul 15;87(2):225-33

ANALYSIS

Inner ear content of glycosaminoglycans as shown by monoclonal antibodies. Hultcrantz M, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):25-32

Synovial fluid chondroitin and keratan sulphate epitopes, glycosaminoglycans, and hyaluronan in arthritic and normal knees. Belcher C, et al. **Ann Rheum Dis** 1997 May; 56(5):299-307

Localization of glycosaminoglycans and CD44 in the human lacrimal gland. Yoshida K, et al. **Arch Histol Cytol** 1996 Dec;59(5):505-13

The relationship between microbial factors and gingival crevicular fluid glycosaminoglycans in human adult periodontitis. Smith AJ, et al. **Arch Oral Biol** 1997 Jan; 42(1):89-92

Cholesterol-dependent changes of glycosaminoglycan pattern in human aorta. Kruse R, et al. **Basic Res Cardiol** 1996 Sep-Oct;91(5):344-52

Collagen and glycosaminoglycans of Wharton's jelly. Sobolewski K, et al. **Biol Neonate** 1997;71(1):11-21

Changes of glycosaminoglycan composition in aging chicken brain. A preliminary investigation. Pane G, et al. **Boll Soc Ital Biol Sper** 1996 Nov-Dec;72(11-12):309-15

Chronic sun exposure alters both the content and distribution of dermal glycosaminoglycans. Bernstein EF, et al. **Br J Dermatol** 1996 Aug;135(2):255-62

Citric acid increases viable epidermal thickness and glycosaminoglycan content of sun-damaged skin. Bernstein EF, et al. **Dermatol Surg** 1997 Aug;23(8):689-94

Capillary electrophoresis of glycosaminoglycan-derived disaccharides: application to stability studies of glycosaminoglycan chitosan complexes. Denuzière A, et al. **Electrophoresis** 1997 May;18(5):745-50

Purity of glycosaminoglycan-related compounds using capillary electrophoresis. Malsch R, et al. **Electrophoresis** 1996 Feb;17(2):401-5

Detection of glycosaminoglycans as a copper (II) complex in capillary electrophoresis. Toida T, et al. **Electrophoresis** 1996 Feb;17(2):341-6

Variation of an epitope of keratan sulphate and total glycosaminoglycans in normal equine joints. Fuller CJ, et al. **Equine Vet J** 1996 Nov;28(6):490-3

Application of selected cationic dyes for the semiquantitative estimation of glycosaminoglycans in histological sections of articular cartilage by microspectrophotometry. Király K, et al. **Histochem J** 1996 Aug;28(8):577-90

Light microscopic histochemical and immunohistochemical localisation of sulphated glycosaminoglycans in the rooster comb and wattle tissues. Nakano T, et al. **J Anat** 1996 Dec; 189 (Pt 3):643-50

Effects of stage of gestation and uterine ligation on ovine placentome development and glycosaminoglycans. Ott TL, et al. **J Anim Sci** 1997 Apr;75(4):1053-62

Diabetic scleredema: a case report and biochemical analysis for glycosaminoglycans. Kobayashi T, et al. **J Dermatol** 1997 Feb;24(2):100-3

Age changes in the rat temporomandibular joint articular disc: a biochemical study on glycosaminoglycan content. Okazaki J, et al. **J Oral Rehabil** 1996 Aug;23(8):536-40

Gd-DTPA2- as a measure of cartilage degradation [published erratum appears in Magn Reson Med 1996 Dec;36(6):964] Bashir A, et al. **Magn Reson Med** 1996 Nov; 36(5):665-73

Glycosaminoglycans of the uterine and vaginal cul-de-sac tissue in the brushtail possum (Trichosurus vulpecula). Legge M, et al. **Reprod Fertil Dev** 1996;8(4):819-23

Heparins, low-molecular-weight heparins, and other glycosaminoglycans analyzed by agarose gel electrophoresis and azure A-silver staining. Wang L, et al. **Semin Thromb Hemost** 1997;23(1):11-6

Glycosaminoglycan content of Ca-oxalate stone matrix. Effect of this factor on stone fragility. Sarica K, et al. **Urol Int** 1997;58(1):43-6

[Study on porcine proteoglycans relevant to structure and function of temporomandibular joint] Shibuya T. **Kokubyo Gakkai Zasshi** 1996 Dec;63(4):576-92 (Eng. Abstr.) **(Jpn)**

[An immunohistochemical study on glycosaminoglycans distribution in the trabeculum of congenital aniridia] Asakawa M, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan; 101(1):87-91 (Eng. Abstr.) **(Jpn)**

[Histochemical studies on the separation of the lens vesicle] Mizuno S, et al. **Nippon Ganka Gakkai Zasshi** 1997 Jan; 101(1):46-51 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Response of airway smooth muscle cells to TGF-beta 1: effects on growth and synthesis of glycosaminoglycans. Black PN, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L910-7

Effect of insulin and epidermal growth factors on the synthesis of glycosaminoglycans/proteoglycans in cultured human malignant mesothelioma cells of different phenotypic morphology. Tzanakakis GN, et al. **APMIS** 1996 Oct;104(10):718-28

The role and content of endogenous insulin-like growth factor-binding proteins in bovine articular cartilage. Morales TI. **Arch Biochem Biophys** 1997 Jul 15; 343(2):164-72

Decorin and glycosaminoglycan synthesis in skin fibroblasts from patients with systemic sclerosis. Kuroda K, et al. **Arch Dermatol Res** 1997 Jul;289(8):481-5

Stimulation of collagen expression and glycosaminoglycan synthesis by midkine in human skin fibroblasts. Yamada H, et al. **Arch Dermatol Res** 1997 Jun;289(7):429-33

Glycosaminoglycan biosynthesis during 5-fluoro-2-deoxyuridine-induced palatal clefts in the rat. Singh GD, et al. **Arch Oral Biol** 1997 May;42(5):355-63

Reticular erythematous mucinosis syndrome: glycosaminoglycan synthesis by fibroblasts and abnormal response to interleukin-1 beta. Izumi T, et al. **Dermatology** 1996;192(1):41-5

Changes in sulfated macromolecules produced in vivo during normal and indomethacin-delayed ulcer healing in rats. Lyons KC, et al. **Dig Dis Sci** 1997 Aug;42(8):1755-64

All-transglycolytic synthesis and characterization of sialyl(alpha2-3)galactosyl(beta1-4)xylosyl-p-nitrophenyl (beta1-), an oligosaccharide derivative related to glycosaminoglycan biosynthesis. Vetere A, et al. **Eur J Biochem** 1997 Aug 1;247(3):1083-90

Synthesis of glycosaminoglycans by human cervical fibroblasts in culture: effects of prostaglandin E2 and cyclic AMP. Carbonne B, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec;70(1):101-5

Glycosaminoglycan-biosynthesis in the wall of the umbilical cord artery and its alteration in EPH-gestosis. Romanowicz L, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar; 72(1):19-25

Pleural macrophages differentially alter pleural mesothelial cell glycosaminoglycan production. Baumann MH, et al. **Exp Lung Res** 1996 Jan-Feb;22(1):101-11

Modifications of proteoglycans secreted into the growth medium by young and senescent human skin fibroblasts. Passi A, et al. **FEBS Lett** 1997 Feb 3;402(2-3):286-90

Angiotensin-II-induced angiogenesis in sponge implants in mice. Andrade SP, et al. **Int J Microcirc Clin Exp** 1996 Nov-Dec;16(6):302-7

Metal substrates influence the release of glycosaminoglycan and transforming growth factor beta by human bone cells. Locci P, et al. **J Periodontol** 1996 Dec;67(12):1260-6

Basic fibroblast growth factor-induced glycosaminoglycan production in cultured vascular endothelial cells results from enhanced protein synthesis mediated by the lipoxygenase pathway. Kaji T, et al. **Life Sci** 1997; 60(12):873-81

Effect of retinoic acid on melanoma cell-derived factor stimulation of fibroblast glycosaminoglycan synthesis. Edward M, et al. **Melanoma Res** 1997 Jun;7(3):189-96

Cell surface glycosaminoglycans are not obligatory for Plasmodium berghei sporozoite invasion in vitro. Frevert U, et al. **Mol Biochem Parasitol** 1996 Feb-Mar; 76(1-2):257-66

Exogenous glycosaminoglycans (GAG) differentially modulate GAG synthesis by anchorage-independent cultures of the outer cells from neonatal rat calvaria in the absence and presence of TGF-beta. Anastassiades TP, et al. **Mol Cell Biochem** 1996 May 10;158(1):25-32

Molecular basis of intercellular adhesion in the biofilm-forming Staphylococcus epidermidis. Heilmann C, et al. **Mol Microbiol** 1996 Jun;20(5):1083-91

Partial characterisation of human melanoma cell-derived factors that stimulate fibroblast glycosaminoglycan synthesis. Godden JL, et al. **Pathobiology** 1996;64(5):262-8

Cyclic AMP-dependent pathway that mediates suppressive regulation of glycosaminoglycan production in cultured vascular endothelial cells. Kaji T, et al. **Thromb Res** 1996 Jun 1;82(5):389-97

BLOOD

Glycosaminoglycans of human serum and their alterations in diabetes mellitus. Kozma EM, et al. **Acta Biochim Pol** 1996;43(3):567-74

Elevated plasma glycosaminoglycans in chickens with tibial dyschondroplasia induced by a Fusarium oxysporum isolate. Chu Q, et al. **Avian Dis** 1996 Jul-Sep;40(3):715-9

Detection of heparin-like glycosaminoglycans in normal human plasma by polyacrylamide-gel electrophoresis. Cavari S, et al. **Clin Chim Acta** 1996 Aug 30;252(2):159-70

CHEMICAL SYNTHESIS

Synthesis of a novel glycosaminoglycan pentasaccharide serine having an N-acetylgalactosamine residue alpha-linked to the core linkage tetrasaccharide. Neumann KW, et al. **Glycoconj J** 1996 Dec;13(6):933-6

CHEMISTRY

Quantification of sulfated glycosaminoglycans in chondrocyte/alginate cultures, by use of 1,9-dimethylmethylene blue. Enobakhare BO, et al. **Anal Biochem** 1996 Dec 1;243(1):189-91

Use of polyvinyl alcohol to stabilize binding of sulfated glycosaminoglycans to dimethylmethylene blue. Groves PJ, et al. **Anal Biochem** 1997 Feb 15;245(2):247-8

Modulation of glycosaminoglycans in mouse mammary tumors. Umbreit JN. **Anticancer Res** 1996 Nov-Dec; 16(6B):3785-92

Alternative splicing determines the binding of platelet-derived growth factor (PDGF-AA) to glycosaminoglycans. Lustig F, et al. **Biochemistry** 1996 Sep 17;35(37):12077-85

New preparation and microstructure of the EndoPatch elastin-collagen containing glycosaminoglycans. Lefebvre F, et al. **Biomaterials** 1996 Sep;17(18):1813-8

Structure of fucose branches in the glycosaminoglycan from the body wall of the sea cucumber Stichopus japonicus. Kariya Y, et al. **Carbohydr Res** 1997 Jan 17;297(3):273-9

Influence of core protein sequence on glycosaminoglycan assembly. Esko JD, et al. **Curr Opin Struct Biol** 1996 Oct; 6(5):663-70 (37 ref.)

The investigation of glycosaminoglycan mimotope structure using capillary electrophoresis and other complementary electrophoretic techniques. Carney SL, et al. **Electrophoresis** 1996 Feb;17(2):384-90

Characterization of recombinant perlecan domain I and its substitution by glycosaminoglycans and oligosaccharides. Costell M, et al. **Eur J Biochem** 1997 Jan 15; 243(1-2):115-21

The biochemical structure of mammalian vitreous [see comments] Bishop P. **Eye** 1996;10 (Pt 6):664-70 (48 ref.) . Comment in: Eye 1996 ;10 (Pt 6):651-2.

Organization of glycosaminoglycan sulfation in the biosynthesis of proteochondroitin sulfate and proteodermatan sulfate. Silbert JE. **Glycoconj J** 1996 Dec; 13(6):907-12 (65 ref.)

Characteristics of proteoglycans of buffalo ovarian follicular fluid during maturation of follicles. Boushehri I, et al. **Indian J Biochem Biophys** 1996 Jun;33(3):213-7

Disaccharide analysis of human skin glycosaminoglycans in sun-exposed and sun-protected skin of aged people. Takahashi Y, et al. **J Dermatol Sci** 1996 Feb;11(2):129-33

Neuronal and non-neuronal localization of acid sulfated glycosaminoglycans (sGAG) and chondroitin proteoglycans in the rat medulla oblongata. Gragera RR, et al. **J Hirnforsch** 1996;37(1):5-14

DEFICIENCY

Glycosaminoglycan depletion greatly raises the hydraulic permeability of rabbit joint synovial lining. Scott D, et al. **Exp Physiol** 1997 May;82(3):603-6

IMMUNOLOGY

Blockade of the interaction between interferon-gamma and endothelial glycosaminoglycans: a novel strategy for immunosuppression? Douglas MS, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1086-8

ISOLATION & PURIFICATION

Electrophoresis separation of glycosaminoglycans on nitrocellulose membranes. Volpi N. **Anal Biochem** 1996 Aug 15;240(1):114-8

Changes in glycosaminoglycans during regeneration of post-crush sciatic nerves of adult guinea pigs. Shum DK, et al. **J Neurosci Res** 1996 Nov 15;46(4):465-76

METABOLISM

Alterations in glycosaminoglycans in wounded skin of diabetic rats. A possible role of IGF-I, IGF-binding proteins and proteolytic activity. Cechowska-Pasko M, et al. **Acta Biochim Pol** 1996;43(3):557-65

Glycosaminoglycans regulate elastase inhibition by oxidized secretory leukoprotease inhibitor. Ying QL, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L533-41

Induction of emphysematous lesions in rat lung by beta-D-xyloside, an inhibitor of proteoglycan synthesis. van Kuppevelt TH, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):75-84

Effect of carprofen on sulfated glycosaminoglycan metabolism, protein synthesis, and prostaglandin release by cultured osteoarthritic canine chondrocytes. Benton HP, et al. **Am J Vet Res** 1997 Mar;58(3):286-92

Maintenance of equine articular cartilage explants in serum-free and serum-supplemented media, compared with that in a commercial supplemented medium. Kawcak CE, et al. **Am J Vet Res** 1996 Sep;57(9):1261-5

Effect of activated equine neutrophils on sulfated proteoglycan metabolism in equine cartilage explant cultures. MacDonald MH, et al. **Am J Vet Res** 1996 Dec; 57(12):1738-47

Use of polyvinyl alcohol to stabilize binding of sulfated glycosaminoglycans to dimethylmethylene blue. Groves PJ, et al. **Anal Biochem** 1997 Feb 15;245(2):247-8

Homogeneous enzyme-based binding assay for studying glycosaminoglycan interactions with macromolecules and peptides. Guo X, et al. **Anal Biochem** 1996 Mar 15; 235(2):153-60

An immunohistochemical study of enthesis development in the medial collateral ligament of the rat knee joint. Gao J, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):399-406

Age-related changes in the localization of glycosaminoglycans in condylar cartilage of the mandible in rats. Takahashi I, et al. **Anat Embryol (Berl)** 1996 Nov; 194(5):489-500

Proteoglycans and glycosaminoglycans during maturation of the mouse mammary gland. Umbreit JN. **Anticancer Res** 1996 Sep-Oct;16(5A):3013-29

Xanthine oxidase binding to glycosaminoglycans: kinetics and superoxide dismutase interactions of immobilized xanthine oxidase-heparin complexes. Radi R, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):125-35

Lysosomal storage of sulfated glycosaminoglycans induced by two bis-aminomethyl anthrachinones. Fischer J, et al. **Arch Toxicol** 1996;70(6):373-9

Benzoporphyrin derivative decreases the binding of low density lipoprotein to the glycosaminoglycan chondroitin-6-sulfate in vitro. Allison BA, et al. **Atherosclerosis** 1996 Sep 6;125(2):153-60

Glycosaminoglycans in the three lobes of the rat prostate following castration and testosterone treatment. Terry DE, et al. **Biochem Cell Biol** 1996;74(5):653-8

Drug-induced glycosaminoglycan storage: dose-dependent changes in the pattern of accumulated glycosaminoglycans in cultured bovine and human fibroblasts. Fischer J. **Biochem Pharmacol** 1996 Nov 8;52(9):1331-7

Alternative splicing determines the binding of platelet-derived growth factor (PDGF-AA) to glycosaminoglycans. Lustig F, et al. **Biochemistry** 1996 Sep 17;35(37):12077-85

Calcium-dependent and -independent binding of the pentraxin serum amyloid P component to glycosaminoglycans and amyloid proteins: enhanced binding at slightly acid pH. Danielsen B, et al. **Biochim Biophys Acta** 1997 Apr 25;1339(1):73-8

Effect of oocytectomy on glycosaminoglycan composition during cumulus expansion of porcine cumulus-oocyte complexes cultured in vitro. Nakayama T, et al. **Biol Reprod** 1996 Dec;55(6):1299-304

Analysis of glycosaminoglycans in human prostate by high-performance liquid chromatography. Iida S, et al. **Br J Urol** 1997 May;79(5):763-9

Undersulfation of glycosaminoglycans reduces the proliferation of a leukemia cell line in vitro. Alvarez-Silva M, et al. **Braz J Med Biol Res** 1996 Sep;29(9):1239-42

The role of carboxy-terminal glycosaminoglycan-binding domain of vitronectin in cytoskeletal organization and migration of endothelial cells. Thiagarajan P, et al. **Cell Adhes Commun** 1996 Nov;4(4-5):317-25

Glycosaminoglycans in autoimmunity. Hansen C, et al. **Clin Exp Rheumatol** 1996 May-Jun;14 Suppl 15:S59-67 (41 ref.)

Human interleukin 4 is a glycosaminoglycan-binding protein. Lortat-Jacob H, et al. **Cytokine** 1997 Feb;9(2):101-5

Disaccharide analysis of skin glycosaminoglycan in localized scleroderma. Yokoyama Y, et al. **Dermatology** 1997; 194(4):329-33

Does urinary oxalate interfere with the inhibitory role of glycosaminoglycans and semisynthetic sulfated polysaccharides in calcium oxalate crystallization? Cao LC, et al. **Eur Urol** 1997;31(4):485-92

Overlapping sites on the Link module of human TSG-6 mediate binding to hyaluronan and chrondroitin-4-sulphate. Parkar AA, et al. **FEBS Lett** 1997 Jun 30;410(2-3):413-7

Compartmental distribution of sulfated glycosaminoglycans in lateral and medial midbrain astroglial cultures. Garcia-Abreu J, et al. **Glia** 1996 Aug;17(4):339-44

Organization of glycosaminoglycan sulfation in the biosynthesis of proteochondroitin sulfate and proteodermatan sulfate. Silbert JE. **Glycoconj J** 1996 Dec; 13(6):907-12 (65 ref.)

Accumulation of glycosaminoglycans associated with hypomagnesaemia in endomyocardial fibrosis in Kerala: possible involvement of dietary factors. Kumari KT, et al. **Indian Heart J** 1997 Jan-Feb;49(1):49-51

Glycosaminoglycan stratification of the juxtacanalicular tissue in normal and primary open-angle glaucoma. Knepper PA, et al. **Invest Ophthalmol Vis Sci** 1996 Nov; 37(12):2414-25

The development of articular cartilage: II. The spatial and temporal patterns of glycosaminoglycans and small leucine-rich proteoglycans [see comments] Archer CW, et al. **J Anat** 1996 Aug;189 (Pt 1):23-35. Comment in: J Anat 1997 May;190 (Pt 4):623-7.

Possums, articular cartilage and oxygen. A comment on the papers by Archer et al. (1996) and Morrison et al. (1996) [letter; comment] Stockwell RA, et al. **J Anat** 1997 May; 190 (Pt 4):623-7. Comment on: J Anat 1996 Aug;189 (Pt 1):9-22. Comment on: J Anat 1996 Aug;189 (Pt 1):23-35.

Utilization of phosphocholine from extracellular complex polysaccharide as a source of cytoplasmic choline derivatives in Penicillium fellutanum. Park YI, et al. **J Bacteriol** 1997 Feb;179(4):1186-92

Effect of depolymerized holothurian glycosaminoglycan (DHG) on the activation of factor VIII and factor V by thrombin. Nagase H, et al. **J Biochem (Tokyo)** 1996 Jan; 119(1):63-9

Cell adhesion to a motif shared by the malaria circumsporozoite protein and thrombospondin is mediated by its glycosaminoglycan-binding region and not by CSVTCG. Gantt SM, et al. **J Biol Chem** 1997 Aug 1; 272(31):19205-13

Identification of a glycosaminoglycan-binding site in chemokine macrophage inflammatory protein-1alpha. Koopmann W, et al. **J Biol Chem** 1997 Apr 11; 272(15):10103-9

Binding of human phospholipase A2 type II to proteoglycans. Differential effect of glycosaminoglycans on enzyme activity. Sartipy P, et al. **J Biol Chem** 1996 Oct 18; 271(42):26307-14

The glycosaminoglycan binding site governs ligand binding to the somatomedin B domain of vitronectin. Seiffert D. **J Biol Chem** 1997 Apr 11;272(15):9971-8

The interaction between basic fibroblast growth factor and heparan sulfate can prevent the in vitro degradation of the glycosaminoglycan by Chinese hamster ovary cell heparanases. Tumova S, et al. **J Biol Chem** 1997 Apr 4; 272(14):9078-85

Post-translational modifications of alpha5beta1 integrin by glycosaminoglycan chains. The alpha5beta1 integrin is a facultative proteoglycan. Veiga SS, et al. **J Biol Chem** 1997 May 9;272(19):12529-35

Glycosaminoglycans can modulate extracellular localization of the wingless protein and promote signal transduction. Reichsman F, et al. **J Cell Biol** 1996 Nov;135(3):819-27

Specific degradation of subendothelial matrix proteoglycans by brain-metastatic melanoma and brain endothelial cell heparanases. Marchetti D. **J Cell Physiol** 1997 Sep; 172(3):334-42

Characterization of glycosaminoglycans in regenerating canine liver. Toyoki Y, et al. **J Hepatol** 1997 May; 26(5):1135-40

Developmental distribution of glycosaminoglycans in embryonic rat brain: relationship to axonal tract formation. Fernaud-Espinosa I, et al. **J Neurobiol** 1996 Jul; 30(3):410-24

Glycosaminoglycan storage in cultured neonatal murine mucopolysaccharidosis type VII neuroglial cells and correction by beta-glucuronidase gene transfer. Taylor RM, et al. **J Neurochem** 1997 May;68(5):2079-85

Glycosaminoglycans and proteoglycans from different zones of the porcine knee meniscus. Nakano T, et al. **J Orthop Res** 1997 Mar;15(2):213-20

Detection and possible biological role of chondroitinase and heparitinase enzymes produced by Porphyromonas gingivalis W50. Smith AJ, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 1):1-8

Glycosaminoglycan concentration in synovium and other tissues of rabbit knee in relation to synovial hydraulic resistance. Price FM, et al. **J Physiol (Lond)** 1996 Sep 15; 495 (Pt 3):803-20

Changes in glycosaminoglycan concentration and synovial permeability at raised intra-articular pressure in rabbit knees. Price FM, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):821-33

Vascular smooth muscle cell phenotype influences glycosaminoglycan composition and growth effects of extracellular matrix. Hein M, et al. **J Vasc Res** 1996 Nov-Dec;33(6):433-41

Specificity and affinity of binding of herpes simplex virus type 2 glycoprotein B to glycosaminoglycans. Williams RK, et al. **J Virol** 1997 Feb;71(2):1375-80

Type VI collagen bound to collagen fibrils by chondroitin/dermatan sulfate glycosaminoglycan in mouse corneal stroma. Nakamura M, et al. **Jpn J Ophthalmol** 1997 Mar-Apr;41(2):71-6

Protein-glycosaminoglycan interactions: infectiological aspects. Sawitzky D. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):155-61 (78 ref.)

Chlamydia trachomatis glycosaminoglycan-dependent and independent attachment to eukaryotic cells. Chen JC, et al. **Microb Pathog** 1997 Jan;22(1):23-30

Osteoarthritis in the temporo-mandibular joint (TMJ) of aged mice and the in vitro effect of TGF-beta 1 on cell proliferation, matrix synthesis, and alkaline phosphatase activity. Livne E, et al. **Microsc Res Tech** 1997 May 15; 37(4):314-23

Alzheimer's disease. Tangle disentanglement [news; comment] Beyreuther K, et al. **Nature** 1996 Oct 10; 383(6600):476-7. Comment on: Nature 1996 Oct 10;383(6600):550-3.

Aberrant proteoglycan composition of the glomerular basement membrane in a patient with Denys-Drash syndrome. van den Heuvel LP, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2205-11

Light controls scleral precursor synthesis. Devadas M, et al. **Neuroreport** 1996 Aug 12;7(12):2010-2

Glycosaminoglycans in the olfactory epithelium and nerve of chick embryos: an immunocytochemical study. Nishizuka M, et al. **Neurosci Res** 1996 Jan;24(2):165-73

Mucosal tumor necrosis factor-alpha production and extensive disruption of sulfated glycosaminoglycans begin within hours of birth in neonatal respiratory distress syndrome. Murch SH, et al. **Pediatr Res** 1996 Sep; 40(3):484-9

Lysosomal storage of sulphated glycosaminoglycans induced by dicationic amphiphilic drug molecules: significance of the central planar ring system. Lüllmann-Rauch R, et al. **Pharmacol Toxicol** 1996 Sep;79(3):109-13

Interaction of a new depolymerized holothurian glycosaminoglycan with proteins in human plasma. Minamiguchi K, et al. **Thromb Res** 1996 Aug 1;83(3):253-64

Graves' dermopathy [letter; comment] Wortsman J. **Thyroid** 1996 Dec;6(6):655, 657. Comment on: Thyroid 1996 Feb;6(1):41-5.

Receptors for carbohydrate ligands including heparin on the cell surface of Leishmania and other trypanosomatids. Kock NP, et al. **Trop Med Int Health** 1997 Sep;2(9):863-74

[Effect of RU486 on metabolism of glycosaminoglycans in the cultured calf trabecular meshwork cells] Yuan L, et al. **Chung Hua Yen Ko Tsa Chih** 1995 Nov;31(6):450–3 (Eng. Abstr.) **(Chi)**

[Effect of anthocyanins on human connective tissue metabolism in the human] Boniface R, et al. **Klin Monatsbl Augenheilkd** 1996 Dec;209(6):368–72 (Eng. Abstr.) **(Ger)**

[Histochemical studies on glycosaminoglycans in Bruch's membrane of experimental microphthalmic mice] Uno M, et al. **Nippon Ganka Gakkai Zasshi** 1996 Feb;100(2):126–31 (Eng. Abstr.) **(Jpn)**

[The mucopolysaccharides of the human gastric mucosa] Sinitsina VF. **Arkh Anat Gistol Embriol** 1968 Nov; 55(11):71–4 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Urinary excretion of sulfated polysaccharides administered to Wistar rats suggests a renal permselectivity to these polymers based on molecular size. Guimarães MA, et al. **Biochim Biophys Acta** 1997 Apr 17;1335(1–2):161–72

PHARMACOLOGY

Inhibition of three alphaherpesviruses (herpes simplex 1 and 2 and pseudorabies virus) by heparin, heparan and other sulfated polyelectrolytes [published erratum appears in Arch Med Res 1996 Summer;27(2):following 255] Ramos-Kuri M, et al. **Arch Med Res** 1996 Spring;27(1):43–8

Depolymerized holothurian glycosaminoglycan (DHG) prevents neointimal formation in balloon-injured rat carotid artery. Igarashi M, et al. **Atherosclerosis** 1997 Feb 28;129(1):27–31

Glycosaminoglycans can influence fibroblast growth factor-2 mitogenicity without significant growth factor binding. Wang H, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):369–73

Glycosaminoglycans in crystal-surface binding substances and their role in calcium oxalate crystal growth. Yoshimura K, et al. **Br J Urol** 1997 Jul;80(1):64–8

SJAMP-induced platelet aggregation defect. Shen D. **Chin Med J (Engl)** 1996 Jan;109(1):46–8 (10 ref.)

Inhibition of experimental metastasis and cell adhesion of murine melanoma cells by chondroitin sulfate-derivatized lipid, a neoproteoglycan with anti-cell adhesion activity. Karasawa K, et al. **Clin Exp Metastasis** 1997 Mar; 15(2):83–93

Glycosaminoglycan supplementation promotes nerve regeneration and muscle reinnervation. Gorio A, et al. **Eur J Neurosci** 1997 Aug;9(8):1748–53

Heparin-like glycosaminoglycans inhibit leukocyte adhesion to endotoxin-activated human vascular endothelial cells under nonstatic conditions. Kitamura N, et al. **Eur Surg Res** 1996;28(6):428–35

Porins of Pseudomonas aeruginosa induce release of tumor necrosis factor alpha and interleukin-6 by human leukocytes. Cusumano V, et al. **Infect Immun** 1997 May; 65(5):1683–7

Effect of depolymerized holothurian glycosaminoglycan (DHG) on the activation of factor VIII and factor V by thrombin. Nagase H, et al. **J Biochem (Tokyo)** 1996 Jan; 119(1):63–9

Retroviral gene transfer is inhibited by chondroitin sulfate proteoglycans/glycosaminoglycans in malignant pleural effusions. Batra RK, et al. **J Biol Chem** 1997 May 2; 272(18):11736–43

Glycosaminoglycans modulate cell-matrix interactions of human fibroblasts and endothelial cells in vitro. Schaefer T, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):479–88

Inhibition of neointimal proliferation of rat carotid artery by sulodexide. Park HY, et al. **J Korean Med Sci** 1997 Jun;12(3):210–4

Glycosaminoglycans in nerve injury: II. Effects on transganglionic degeneration and on the expression of neurotrophic factors. Gorio A, et al. **J Neurosci Res** 1996 Dec 1;46(5):572–80

Glycosaminoglycans in nerve injury: 1. Low doses of glycosaminoglycans promote neurite formation. Lesma E, et al. **J Neurosci Res** 1996 Dec 1;46(5):565–71

Exogenous glycosaminoglycans (GAG) differentially modulate GAG synthesis by anchorage-independent cultures of the outer cells from neonatal rat calvaria in the absence and presence of TGF-beta. Anastassiades TP, et al. **Mol Cell Biochem** 1996 May 10;158(1):25–32

The effect of inhaled heparin and related glycosaminoglycans on allergen-induced eosinophil infiltration in guinea-pigs. Seeds EA, et al. **Pulm Pharmacol** 1995 Apr–Jun; 8(2–3):97–105

Effects of glycosaminoglycans on the glomerular changes induced by Adriamycin. Pieroni F, et al. **Res Exp Med (Berl)** 1995;195(6):373–9

Morphological effects of glycosaminoglycans on calcium oxalate monohydrate crystals. Shirane Y, et al. **Scanning Microsc** 1995;9(4):1081–8; discussion 1088

Effect of depolymerized holothurian glycosaminoglycan (DHG) on tissue factor pathway inhibitor: in vitro and in vivo studies. Nagase H, et al. **Thromb Haemost** 1997 Aug; 78(2):864–70

Phorbol 12-myristate 13-acetate stimulates the release of glycosaminoglycans from cultured vascular endothelial cells: possible involvement of protein kinase C activation. Fujii N, et al. **Thromb Res** 1996 Jun 1;82(5):379–87

Binding of tissue factor pathway inhibitor to cultured endothelial cells-influence of glycosaminoglycans. Iversen N, et al. **Thromb Res** 1996 Nov 15;84(4):267–78

DHG, a new depolymerized holothurian glycosaminoglycan, exerts an antithrombotic effect with less bleeding than unfractionated or low molecular weight heparin, in rats. Kitazato K, et al. **Thromb Res** 1996 Oct 15;84(2):111–20

PHYSIOLOGY

Glycosaminoglycans modulate fibronectin matrix assembly and are essential for matrix incorporation of tenascin-C. Chung CY, et al. **J Cell Sci** 1997 Jun;110 (Pt 12):1413–9

Chlamydia trachomatis glycosaminoglycan-dependent and independent attachment to eukaryotic cells. Chen JC, et al. **Microb Pathog** 1997 Jan;22(1):23–30

Role of cell surface glycosaminoglycans of human T cells in human immunodeficiency virus type-1 (HIV-1) infection. Ohshiro Y, et al. **Microbiol Immunol** 1996; 40(11):827–35

Glycosaminoglycans, proteins, and stone formation: adult themes and child's play. Ryall RL. **Pediatr Nephrol** 1996 Oct;10(5):656–66 (134 ref.)

Which glycosaminoglycans are suitable for antithrombogenic or athrombogenic coatings of biomaterials? Part I: Basic concepts of immobilized GAGs on partially cationized cellulose membrane. Baumann H, et al. **Semin Thromb Hemost** 1997;23(2):203–13

Which glycosaminoglycans are suitable for antithrombogenic or athrombogenic coatings of biomaterials? Part II: Covalently immobilized endothelial cell surface heparan sulfate (ESHS) and heparin (HE) on synthetic polymers and results of animal experiments. Baumann H, et al. **Semin Thromb Hemost** 1997;23(2):215–23

[The role of glycosaminoglycans and proteoglycans in hemopoiesis and the physiological functions of the blood cells] Kharchenko MF, et al. **Fiziol Zh Im I M Sechenova** 1996 May-Jun;82(5–6):18–25 (40 ref.) (Eng. Abstr.) **(Rus)**

SECRETION

Alteration of cartilage metabolism by cells from osteoarthritic bone. Westacott CI, et al. **Arthritis Rheum** 1997 Jul; 40(7):1282–91

Undersulfated beta-D-xyloside glycosaminoglycans are secreted in the presence of the ionophore monensin. Kajiwara T, et al. **FEBS Lett** 1981 Nov 2;134(1):43–6

Mechanical strain induces constitutive and regulated secretion of glycosaminoglycans and proteoglycans in fetal lung cells. Xu J, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1605–13

THERAPEUTIC USE

Glycosaminoglycan polysulfate injections for lateral humeral epicondylalgia. Mohtadi NG. **Clin J Sport Med** 1996 Jan; 6(1):65

A pilot study of the effect of the glycosaminoglycan sulodexide on microalbuminuria in type I diabetic patients. Szelanowska M, et al. **Curr Med Res Opin** 1997; 13(9):539–45

Glycosaminoglycans delay the progression of nephropathy in NIDDM. Solini A, et al. **Diabetes Care** 1997 May; 20(5):819–23

The effect of drugs used in the treatment of osteoarthrosis on stromelysin (proteoglycanase) of equine synovial cell origin. May SA, et al. **Equine Vet J Suppl** 1988 Sep; (6):28–32

Galactosaminoglycuronglycan sulfate in erosive osteoarthritis of the hands: early diagnosis, early treatment. Rovetta G, et al. **Int J Tissue React** 1996;18(1):43–6

Results of a survey of equine practitioners on the use and perceived efficacy of polysulfated glycosaminoglycan. Caron JP, et al. **J Am Vet Med Assoc** 1996 Nov 1; 209(9):1564–8

Meta-analysis of some results of clinical trials on sulodexide therapy in peripheral occlusive arterial disease. Gaddi A, et al. **J Int Med Res** 1996 Sep–Oct;24(5):389–406

Glycosaminoglycans as a possible tool for micro- and macroalbuminuria in diabetic patients. A pilot study. Sorrenti G, et al. **J Int Med Res** 1997 Mar–Apr;25(2):81–6

Glycosaminoglycans: clinical use. Boneu B. **Semin Thromb Hemost** 1996;22(2):209–12 (29 ref.)

Antithrombotic activity of dermatan sulphates, heparins and their combination in an animal model of arterial thrombosis. Iacoviello L, et al. **Thromb Haemost** 1996 Dec;76(6):1102–7

Antithrombin III-independent effect of depolymerized holothurian glycosaminoglycan (DHG) on acute thromboembolism in mice. Nagase H, et al. **Thromb Haemost** 1997 Feb;77(2):399–402

Glycosaminoglycans and semisynthetic sulfated polysaccharides: an overview of their potential application in treatment of patients with urolithiasis. Cao LC, et al. **Urology** 1997 Aug;50(2):173–83 (111 ref.)

Treatment of acute superficial digital flexor tendon injury in horses with polysulphated glycosaminoglycan. Dow SM, et al. **Vet Rec** 1996 Oct 26;139(17):413–6

[Effectiveness and tolerability of heparan sulfate in the treatment of superficial thrombophlebitis. Controlled clinical study vs sulodexide] Messa G, et al. **Minerva Cardioangiol** 1997 Apr;45(4):147–53 (Eng. Abstr.) **(Ita)**

[Sulodexide treatment in retinal vein obstructions] Corbu C, et al. **Oftalmologia** 1996 Oct–Dec;40(4):393–7 (Eng. Abstr.) **(Rum)**

[The efficacy of Sulodexide—a low-molecular heparin—in the therapy of diabetic nephropathy] Shestakova MV, et al. **Ter Arkh** 1997;69(6):34–7 (Eng. Abstr.) **(Rus)**

URINE

Urinary glycosaminoglycans excretion in Graves' disease. Priestley GC, et al. **Acta Derm Venereol** 1996 Sep; 76(5):368–70

Mucopolysaccharidoses type II: enzymatic activity and quantitative and qualitative studies of urinary glycosaminoglycans in five patients. Gallegos-Arreola MP, et al. **Arch Med Res** 1997 Spring;28(1):91–4

Relationship between circadian changes in renal hemodynamics and circadian changes in urinary glycosaminoglycan excretion in normal rats. Pons M, et al. **Chronobiol Int** 1996 Nov;13(5):349–58

Quantitation of urinary glycosaminoglycans with Alcian blue: evaluation of the interference by Tamm-Horsfall glycoprotein. Bhavanandan VP, et al. **Clin Chim Acta** 1996 Jul 30;251(2):207–14

Urine glycosaminoglycan concentrations in mucopolysaccharidosis VI-affected cats following bone marrow transplantation or leukocyte infusion. Dial SM, et al. **Clin Chim Acta** 1997 Jul 4;263(1):1–14

Urinary excretion of glucosaminoglycans in patients with a renal transplant [letter] Rodríguez-Cuartero A, et al. **Clin Nephrol** 1997 Apr;47(4):274–6

HPLC glycosaminoglycan analysis in patients with Graves' disease. Hansen C, et al. **Clin Sci (Colch)** 1997 May; 92(5):511–7

Urinary glycosaminoglycan excretion in NIDDM subjects: its relationship to albuminura. McAuliffe AV, et al. **Diabet Med** 1996 Aug;13(8):758–63

Evaluation of urinary glycosaminoglycan excretion in patients with renal cell carcinoma. Sarica K, et al. **Eur Urol** 1997;31(1):54–7

Diabetic microangiopathy and urinary glycosaminoglycans. Kahaly G, et al. **Exp Clin Endocrinol Diabetes** 1997; 105(3):145–51

Insulin-dependent diabetes mellitus and glycosaminoglycans. Hansen C, et al. **Horm Metab Res** 1995 Dec;27(12):555–8

Urinary glycosaminoglycan levels are increased in acute severe asthma--a role for eosinophil-derived gelatinase B? Shute JK, et al. **Int Arch Allergy Immunol** 1997 May-Jul; 113(1-3):366–7

Urinary chondroitin sulfates, heparan sulfate and total sulfated glycosaminoglycans in interstitial cystitis. Erickson DR, et al. **J Urol** 1997 Jan;157(1):61–4

Decreased excretion of urine glycosaminoglycans as marker in renal amyloidosis. Tencer J, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1161–6

Urinary excretion of glycosaminoglycans in patients with early diabetic nephropathy [letter] Pérez-Blanco F, et al. **Nephron** 1996;73(2):344–5

Urinary glycosaminoglycan excretion in healthy and stone-forming children. Harangi F, et al. **Pediatr Nephrol** 1996 Oct;10(5):555–8

Urinary glycosaminoglycan excretion in bladder carcinoma. Atahan O, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):173–7

GLYCOSIDASES see **GLYCOSIDE HYDROLASES**

GLYCOSIDE ANTIBIOTICS see **ANTIBIOTICS, AMINOGLYCOSIDE**

GLYCOSIDE HYDROLASES

Microbial xylanolytic enzyme system: properties and applications. Bajpai P. **Adv Appl Microbiol** 1997;43:141–94 (266 ref.)

Increased small intestinal fermentation is partly responsible for the anti-nutritive activity of non-starch polysaccharides in chickens. Choct M, et al. **Br Poult Sci** 1996 Jul; 37(3):609–21

[Addition of sugar chains to peptide using endoglycosidase] Yamamoto K. **Seikagaku** 1996 Nov;68(11):1713–7 (14 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Effects of enzyme supplementation on the nutritive value of dehulled lupins. Annison G, et al. **Br Poult Sci** 1996 Mar;37(1):157–72

ANALYSIS

A solid-phase enzyme-linked assay for ceramide glycanase using GM1 and a novel beta-galactosidase inhibitor. Miyoshi I, et al. **Anal Biochem** 1996 May 1;236(2):360–3

Immunohistochemical localization of ADP-ribosylarginine hydrolase in rodent CNS. Miyaoka T, et al. **Brain Res** 1997 Jan 23;746(1–2):1–9

Localization of germination-specific spore-lytic enzymes in Clostridium perfringens S40 spores detected by immunoelectron microscopy. Miyata S, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):243–7

A fluorometric assay of ceramide glycanase with 4-methylumbelliferyl beta-D-lactoside derivatives. Wang LX, et al. **Glycoconj J** 1996 Jun;13(3):359–65

Development of digestive enzymes in pigs with emphasis on lipolytic activity in the stomach and pancreas. Jensen MS,

et al. **J Anim Sci** 1997 Feb;75(2):437–45

Hydrolases acting on glycosidic bonds: chromatographic and electrophoretic separations. Moriyama T, et al. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1–2):201–16 (199 ref.)

Preparation of nonlabeled, tritiated, and deuterated pyridoxine 5'-beta-D-glucoside and assay of pyridoxine-5'-beta-D-glucoside hydrolase. Gregory JF 3rd, et al. **Methods Enzymol** 1997;280:58–65

Preparation of fluorescence-labeled neoglycolipids for ceramide glycanase assays. Matsuoka K, et al. **Methods Enzymol** 1997;278:519–28 (20 ref.)

ANTAGONISTS & INHIBITORS

Characterization of a monoclonal antibody that specifically inhibits pullulanase activity of Bacillus circulans amylase-pullulanase enzyme. Kim CH, et al. **Appl Biochem Biotechnol** 1997 Feb–Mar;62(2–3):191–200

A cyclic phosphonamidate analogue of glucose as a selective inhibitor of inverting glycosidases. Darrow JW, et al. **Bioorg Med Chem** 1996 Aug;4(8):1341–8

Deoxyiminoalditols from aldonolactones—V. Preparation of the four stereoisomers of 1,5-dideoxy-1,5-iminopentitols. Evaluation of these iminopentitols and three 1,5-dideoxy-1,5-iminoheptitols as glycosidase inhibitors. Godskesen M, et al. **Bioorg Med Chem** 1996 Nov; 4(11):1857–65

Synthesis of azasugars as potent inhibitors of glycosidases. Le Merrer Y, et al. **Bioorg Med Chem** 1997 Mar;5(3):519–33

Design and chemoenzymatic synthesis of thiooligosaccharide inhibitors of 1,3:1,4-beta-D-glucanases. Moreau V, et al. **Bioorg Med Chem** 1996 Nov;4(11):1849–55

C2-symmetrical tetrahydroxyazepanes as inhibitors of glycosidases and HIV/FIV proteases. Qian X, et al. **Bioorg Med Chem** 1996 Dec;4(12):2055–69

Synthesis and biological evaluation of potent glycosidase inhibitors: N-phenyl cyclic isourea derivatives of 5-amino- and 5-amino-C-(hydroxymethyl)-1,2,3,4-cyclopentanetetraols. Uchida C, et al. **Bioorg Med Chem** 1997 May;5(5):921–39

Modulation of islet G-proteins, alpha-glucosidehydrolase inhibition and insulin release stimulated by various secretagogues. Salehi A, et al. **Biosci Rep** 1996 Feb; 16(1):23–34

Preparation and biological activity of manno- and galacto-validamines, new 5a-carba-glycosylamines as alpha-glycosidase inhibitors. Kameda Y, et al. **Carbohydr Res** 1997 May 16;300(3):259–64

Studies on the constituents of Broussonetia species. II. Six new pyrrolidine alkaloids, broussonetine A, B, E, F and broussonetinine A and B, as inhibitors of glycosidases from Broussonetia kazinoki Sieb. Shibano M, et al. **Chem Pharm Bull (Tokyo)** 1997 Apr;45(4):700–5

Chemical modifications of heparin that diminish its anticoagulant but preserve its heparanase-inhibitory, angiostatic, anti-tumor and anti-metastatic properties. Lapierre F, et al. **Glycobiology** 1996 Apr;6(3):355–66

Synthesis and glycosidase inhibitory activities of nagstatin triazole analogs [letter] Tatsuta K, et al. **J Antibiot (Tokyo)** 1996 Aug;49(8):836–8

Potential chemoprotectant activity of mechanism-based glycosidase inhibitors against ricin toxicity in Chinese hamster ovary and macrophage J774A.1 cell cultures. Hassoun EA, et al. **J Appl Toxicol** 1996 Jan–Feb; 16(1):49–54

[Self-inhibiting N-glycosidase activity of shigella toxin] Polesskaia AN, et al. **Mol Biol (Mosk)** 1997 May–Jun; 31(3):528–35 **(Rus)**

BIOSYNTHESIS

Co-expression of a Phanerochaete chrysosporium cellobiohydrolase gene and a Butyrivibrio fibrisolvens endo-beta-1,4-glucanase gene in Saccharomyces cerevisiae. van Rensburg P, et al. **Curr Genet** 1996 Aug; 30(3):246–50

Isolation and expression of the gene which encodes a novel enzyme with polymethoxygalacturonate-degrading activity in Trichosporon penicillatum. Sakai T, et al. **FEBS Lett** 1997 Sep 8;414(2):439–43

Growth performance and enzyme development in weanling pigs injected with dexamethasone. Gómez S, et al. **J Anim Sci** 1997 Apr;75(4):993–1000

Human prostate carcinoma cells produce extracellular heparanase. Kosir MA, et al. **J Surg Res** 1997 Jan; 67(1):98–105

Co-ordinated induction of mRNAs for extracellular invertase and a glucose transporter in Chenopodium rubrum by cytokinins. Ehness R, et al. **Plant J** 1997 Mar;11(3):539–48

BLOOD

Effects of lead and manganese on the release of lysosomal enzymes in vitro and in vivo. Bairati C, et al. **Clin Chim Acta** 1997 May 6;261(1):91–101

Lysosomal hydrolases in serum from human immunodeficiency virus-infected patients. Costanzi E, et al. **Clin Chim Acta** 1996 Nov 15;255(1):57–65

The activity of a blood type B specific exoglycosidase from Glycine max. Hobbs L, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):7–21

Plasma lysosomal glycohydrolases in a general population. Lombardo A, et al. **Clin Chim Acta** 1996 Mar 29; 247(1–2):39–49

CHEMISTRY

In situ color detection of alpha-L-arabinofuranosidase, a "no-background" reporter gene, with 5-bromo-3-indolyl-alpha-L-arabinofuranoside. Berlin W, et al. **Anal Biochem** 1996 Dec 1;243(1):171–5

High pressure and temperature. How to deactivate enzymes in two different ways. Cavaille D, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:212–7

The effect of water content on the thermostability of solid-state proteins. Greco G Jr, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:108–14

Cloning, sequencing, and expression of the gene encoding amylopullulanase from Pyrococcus furiosus and biochemical characterization of the recombinant enzyme. Dong G, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3577–84

Intracellular and extracellular forms of alkaline pullulanase from an alkaliphilic Bacillus sp. S-1. Lee MJ, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):308–16

Cyst-specific exochitinases of Entamoebae contain unique hydrophilic repeats at their amino termini. de la Vega H, et al. **Arch Med Res** 1997;28 Spec No:143–6

Biochemical studies on LevJ, a fructanase from Actinomyces naeslundii T14V. Norman JM, et al. **Arch Oral Biol** 1996 Jun;41(6):565–70

Side-chain specificity at three temperature-sensitive folding mutation sites of P22 tailspike protein. Lee SC, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):857–62

Comparison of the heparanase enzymes from mouse melanoma cells, mouse macrophages, and human platelets. Graham LD, et al. **Biochem Mol Biol Int** 1996 Jun; 39(3):563–71

Mannanase A from Pseudomonas fluorescens ssp. cellulosa is a retaining glycosyl hydrolase in which E212 and E320 are the putative catalytic residues. Bolam DN, et al. **Biochemistry** 1996 Dec 17;35(50):16195–204

Identification of the active site nucleophile in the thermostable beta-glycosidase from the archaeon Sulfolobus solfataricus expressed in Escherichia coli. Febbraio F, et al. **Biochemistry** 1997 Mar 18;36(11):3068–75

Characterization of two important histidine residues in the active site of xylanase A from Streptomyces lividans, a family 10 glycanase. Roberge M, et al. **Biochemistry** 1997 Jun 24;36(25):7769–75

Enzymology and folding of natural and engineered bacterial beta-glucanases studied by X-ray crystallography. Heinemann U, et al. **Biol Chem** 1996 Jul–Aug; 377(7–8):447–54 (42 ref.)

Substituted glycals as probes of glycosidase mechanisms. Lai EC, et al. **Bioorg Med Chem** 1996 Nov;4(11):1929–37

Interactions of phage P22 tails with their cellular receptor, Salmonella O-antigen polysaccharide. Baxa U, et al. **Biophys J** 1996 Oct;71(4):2040–8

Enhancement of cyclodextrin production through use of debranching enzymes. Rendleman JA Jr. **Biotechnol Appl Biochem** 1997 Aug;26 (Pt 1):51–61

Primary structure and characterization of an exopolygalacturonase from Aspergillus tubingensis. Kester HC, et al. **Eur J Biochem** 1996 Sep 15;240(3):738–46

Substrate binding to the inactive mutants of Streptomyces sp. N174 chitosanase: indirect evaluation from the thermal unfolding experiments. Honda Y, et al. **FEBS Lett** 1997 Jul 14;411(2–3):346–50

Stereochemical course of hydrolysis catalyzed by arabinofuranosyl hydrolases. Pitson SM, et al. **FEBS Lett** 1996 Nov 25;398(1):7–11

Active-site motifs of lysosomal acid hydrolases: invariant features of clan GH-A glycosyl hydrolases deduced from hydrophobic cluster analysis. Durand P, et al. **Glycobiology** 1997 Mar;7(2):277–84

Temperature-induced denaturation of beta-glycosidase from the archaeon Sulfolobus solfataricus. D'Auria S, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):292–300

Amino acid sequence and molecular structure of an alkaline amylopullulanase from Bacillus that hydrolyzes alpha-1,4 and alpha-1,6 linkages in polysaccharides at different active sites. Hatada Y, et al. **J Biol Chem** 1996 Sep 27; 271(39):24075–83

Phage P22 tailspike protein: crystal structure of the head-binding domain at 2.3 A, fully refined structure of the endorhamnosidase at 1.56 A resolution, and the molecular basis of O-antigen recognition and cleavage. Steinbacher S, et al. **J Mol Biol** 1997 Apr 11;267(4):865–80

Structural characterization of protein glycosylation using HPLC/electrospray ionization mass spectrometry and glycosidase digestion. Settineri CA, et al. **Methods Mol Biol** 1996;61:255–78

Disulphide-bonded intermediate on the folding and assembly pathway of a non-disulphide bonded protein [see comments] Robinson AS, et al. **Nat Struct Biol** 1997 Jun; 4(6):450–5. Comment in: Nat Struct Biol 1997 Jun;4(6):424–7.

Deglycosylation of proteins for crystallization using recombinant fusion protein glycosidases. Grueninger-Leitch F, et al. **Protein Sci** 1996 Dec; 5(12):2617–22

Conformation of P22 tailspike folding and aggregation intermediates probed by monoclonal antibodies. Speed MA, et al. **Protein Sci** 1997 Jan;6(1):99–108

Individual amino acids in the N-terminal loop region determine the thermostability and unfolding characteristics of bacterial glucanases. Welfle K, et al. **Protein Sci** 1996 Nov;5(11):2255–65

The crystal structures of Sinapis alba myrosinase and a covalent glycosyl-enzyme intermediate provide insights into the substrate recognition and active-site machinery of an S-glycosidase. Burmeister WP, et al. **Structure** 1997 May 15;5(5):663–75

The crystal structure of rhamnogalacturonase A from Aspergillus aculeatus: a right-handed parallel beta helix. Petersen TN, et al. **Structure** 1997 Apr 15;5(4):533–44

CLASSIFICATION

A classification of dextran-hydrolysing enzymes based on amino-acid-sequence similarities [letter] Aoki H, et al. **Biochem J** 1997 May 1;323 (Pt 3):859–61

Identification of the catalytic nucleophile in the cellulase from Schizophyllum commune and assignment of the enzyme to Family 5, subtype 5 of the glycosidases. Clarke AJ, et al. **FEBS Lett** 1997 Sep 8;414(2):359–61

GENETICS

Cloning, sequencing, and expression of the gene encoding amylopullulanase from Pyrococcus furiosus and biochemical characterization of the recombinant enzyme. Dong G, et al. **Appl Environ Microbiol** 1997 Sep; 63(9):3577–84

Cloning and expression of an endo-1,3-1,4-beta-glucanase gene from Bacillus macerans in Lactobacillus reuteri. Heng NC, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3336–40

Cloning of genes encoding alpha-L-arabinofuranosidase and beta-xylosidase from Trichoderma reesei by expression in Saccharomyces cerevisiae. Margolles-Clark E, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3840–6

Cloning and characterization of two rhamnogalacturonan hydrolase genes from Aspergillus niger. Suykerbuyk ME, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2507–15

Side-chain specificity at three temperature-sensitive folding mutation sites of P22 tailspike protein. Lee SC, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):857–62

Molecular cloning and heterologous expression of the isopullulanase gene from Aspergillus niger A.T.C.C. 9642. Aoki H, et al. **Biochem J** 1997 May 1;323 (Pt 3):757–64

Two genes encoding an endoglucanase and a cellulose-binding protein are clustered and co-regulated by a TTA codon in Streptomyces halstedii JM8. Garda AL, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):403–11

New alpha-L-arabinofuranosidase produced by Streptomyces lividans: cloning and DNA sequence of the abfB gene and characterization of the enzyme. Vincent P, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):845–52

Incidence of SUC-RTM telomeric repeated genes in brewing and wild wine strains of Saccharomyces. Denayrolles M, et al. **Curr Genet** 1997 Jun;31(6):457–61

Arabinoxylan degradation by fungi: characterization of the arabinoxylan-arabinofuranohydrolase encoding genes from Aspergillus niger and Aspergillus tubingensis. Gielkens MM, et al. **Curr Genet** 1997 Jan;31(1):22–9

Molecular cloning and nucleotide sequence of an endo-1,5-alpha-L-arabinase gene from Bacillus subtilis. Sakamoto T, et al. **Eur J Biochem** 1997 May 1; 245(3):708–14

Isolation and expression of the gene which encodes a novel enzyme with polymethoxygalacturonate-degrading activity in Trichosporon penicillatum. Sakai T, et al. **FEBS Lett** 1997 Sep 8;414(2):439–43

Expression in a wine yeast strain of the Aspergillus niger abfB gene. Sánchez-Torres P, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):189–94

Peptide display on functional tailspike protein of bacteriophage P22. Carbonell X, et al. **Gene** 1996 Oct 17; 176(1–2):225–9

Sequencing of a 1,3-1,4-beta-D-glucanase (lichenase) from the anaerobic fungus Orpinomyces strain PC-2: properties of the enzyme expressed in Escherichia coli and evidence that the gene has a bacterial origin. Chen H, et al. **J Bacteriol** 1997 Oct;179(19):6028–34

The levanase operon of Bacillus subtilis expressed in Escherichia coli can substitute for the mannose permease in mannose uptake and bacteriophage lambda infection. Martin-Verstraete I, et al. **J Bacteriol** 1996 Dec; 178(24):7112–9

Molecular cloning, expression, and sequence analysis of the endoglycoceramidase II gene from Rhodococcus species strain M-777. Izu H, et al. **J Biol Chem** 1997 Aug 8; 272(32):19846–50

Mutational analysis of the major loop of Bacillus 1,3-1,4-beta-D-glucan 4-glucanohydrolases. Effects on protein stability and substrate binding. Pons J, et al. **J Biol Chem** 1997 May 16;272(20):13006–12

PCR site-directed mutagenesis using Pyrococcus sp GB-D polymerase coupled to a rapid screening procedure. Application to a beta-glucanase gene. Pons J, et al. **Methods Mol Biol** 1997;67:209–18

Cloning of a protopectinase gene of Trichosporon penicillatum and its expression in Saccharomyces cerevisiae. Iguchi K, et al. **Microbiology** 1997 May;143 (Pt 5):1657–64

Expression of CEL2 and CEL4, two proteins from Agaricus bisporus with similarity to fungal cellobiohydrolase I and beta-mannanase, respectively, is regulated by the carbon

source. Yagüe E, et al. **Microbiology** 1997 Jan;143 (Pt 1):239–44

Characterization of genes from Thermoanaerobacterium thermosulfurigenes EM1 that encode two glycosyl hydrolases with conserved S-layer-like domains. Matuschek M, et al. **Mol Gen Genet** 1996 Sep 25; 252(4):493–6

Antisense acid invertase (TIV1) gene alters soluble sugar composition and size in transgenic tomato fruit. Klann EM, et al. **Plant Physiol** 1996 Nov;112(3):1321–30

Alternative expression of a chitosanase gene produces two different proteins in cells infected with Chlorella virus CVK2. Yamada T, et al. **Virology** 1997 Apr 14;230(2):361–8

Expression of the SUC2 gene of Saccharomyces cerevisiae is induced by low levels of glucose. Ozcan S, et al. **Yeast** 1997 Feb;13(2):127–37

Sequence analysis of a near-subtelomeric 35.4 kb DNA segment on the right arm of chromosome VII from Saccharomyces cerevisiae carrying the MAL1 locus reveals 15 complete open reading frames, including ZUO1, BGL2 and BIO2 genes and an ABC transporter gene. Volckaert G, et al. **Yeast** 1997 Mar 15;13(3):251–9

ISOLATION & PURIFICATION

Purification and characterization of alpha-L-rhamnosidase from Bacteroides JY-6, a human intestinal bacterium. Jang IS, et al. **Biol Pharm Bull** 1996 Dec;19(12):1546–9

beta-Agarase from Pseudomonas sp. W7: purification of the recombinant enzyme from Escherichia coli and the effects of salt on its activity. Ha JC, et al. **Biotechnol Appl Biochem** 1997 Aug;26 (Pt 1):1–6

Comparative biochemistry of a cytosolic artiodactyl glycosidase. Cygan J, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):437–46

Purification and characterization of an exo-polygalacturonase from the tomato vascular wilt pathogen Fusarium oxysporum f.sp. lycopersici. Di Pietro A, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):295–9

Purification and biochemical characterization of pullulanase type I from Thermus caldophilus GK-24. Kim CH, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):147–52

Exoglycosidase purity and linkage specificity: assessment using oligosaccharide substrates and high-pH anion-exchange chromatography with pulsed amperometric detection [see comments] Tyagarajan K, et al. **Glycobiology** 1996 Jan;6(1):83–93. Comment in: Glycobiology 1996 Jul;6(5):v–vii.

Purification and characterization of arginine:mono-ADP-ribosylhydrolase from Euglena gracilis Z. Takenaka S, et al. **J Biochem (Tokyo)** 1996 Oct; 120(4):792–6

Purification and characterization of placental heparanase and its expression by cultured cytotrophoblasts. Goshen R, et al. **Mol Hum Reprod** 1996 Sep;2(9):679–84

Purification and characterization of neutral and alkaline invertase from carrot. Lee HS, et al. **Plant Physiol** 1996 Dec;112(4):1513–22

METABOLISM

Increased activity of lysosomal glycohydrolases in glioma tissue and surrounding areas from human brain. Nygren C, et al. **Acta Neurochir (Wien)** 1997;139(2):146–50

Hemicellulases in the bleaching of chemical pulps. Suurnäkki A, et al. **Adv Biochem Eng Biotechnol** 1997;57:261–87 (140 ref.)

ADP-ribosylarginine hydrolases and ADP-ribosyltransferases. Partners in ADP-ribosylation cycles. Moss J, et al. **Adv Exp Med Biol** 1997;419:25–33 (39 ref.)

Glycosidases that convert natural glycosides to bioactive compounds. Sung CK, et al. **Adv Exp Med Biol** 1996; 404:23–36 (21 ref.)

Proteases and glycosyl hydrolases from hyperthermophilic microorganisms. Bauer MW, et al. **Adv Protein Chem** 1996; 48:271–310 (150 ref.)

Microbial hydrolysis of polysaccharides. Warren RA. **Annu Rev Microbiol** 1996;50:183–212 (175 ref.)

Enzymic activity of whole cells entrapped in reversed micelles. Studies on alpha-amylase and invertase in the entrapped yeast cells. Gajjar L, et al. **Appl Biochem Biotechnol** 1997 May;66(2):159–72

Cloning and expression of an endo-1,3-1,4-beta-glucanase gene from Bacillus macerans in Lactobacillus reuteri. Heng NC, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3336–40

Influence of invertase activity and glycerol synthesis and retention on fermentation of media with a high sugar concentration by Saccharomyces cerevisiae. Myers DK, et al. **Appl Environ Microbiol** 1997 Jan;63(1):145–50

Cloning and characterization of two rhamnogalacturonan hydrolase genes from Aspergillus niger. Suykerbuyk ME, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2507–15

Properties of poly(ADP-ribose) glycohydrolase purified from pig testis nuclei. Abe H, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):139–46

Intracellular and extracellular forms of alkaline pullulanase from an alkaliphilic Bacillus sp. S-1. Lee MJ, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):308–16

Role of (ADP-ribose)n catabolism in DNA repair. Maruta H, et al. **Biochem Biophys Res Commun** 1997 Jul 18; 236(2):265–9

Evidence that linker sequences and cellulose-binding domains enhance the activity of hemicellulases against complex substrates. Black GW, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):515–20

Nomenclature for sugar-binding subsites in glycosyl hydrolases [letter] Davies GJ, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):557–9

A rapid quantitative assay for the detection of mammalian heparanase activity. Freeman C, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):229–37

Arabinanase A from Pseudomonas fluorescens subsp. cellulosa exhibits both an endo- and an exo- mode of action. McKie VA, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):547–55

Demonstration of a peptide:N-glycosidase in the endoplasmic reticulum of rat liver. Weng S, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):655–61

Mechanism-based inhibition and stereochemistry of glucosinolate hydrolysis by myrosinase. Cottaz S, et al. **Biochemistry** 1996 Dec 3;35(48):15256–9

Identification of the active site nucleophile in the thermostable beta-glycosidase from the archaeon Sulfolobus solfataricus expressed in Escherichia coli. Febbraio F, et al. **Biochemistry** 1997 Mar 18;36(11):3068–75

Analysis of poly(ADP-ribose) glycohydrolase activity in nuclear extracts from mammalian cells. Bernardi R, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):60–8

Enzymology and folding of natural and engineered bacterial beta-glucanases studied by X-ray crystallography. Heinemann U, et al. **Biol Chem** 1996 Jul-Aug; 377(7-8):447–54 (42 ref.)

Effect of chromium salts on invertase immobilization onto carboxymethyl-cellulose-gelatine carrier system. Emregül E, et al. **Biomaterials** 1996 Jul;17(14):1423–7

Substrate specificity of endoglucanases: what determines xyloglucanase activity? Vincken JP, et al. **Carbohydr Res** 1997 Mar 13;298(4):299–310

Effect of sucrose intake on numbers of bacteria in plaque expressing extracellular carbohydrate metabolizing enzymes. Mikkelsen L. **Caries Res** 1996;30(1):65–70

Alterations of glycosidases in human colonic adenocarcinoma. Gil-Martín E, et al. **Clin Biochem** 1997 Feb;30(1):17–25

Comparison of carbohydrate structures of serum alpha-fetoprotein by sequential glycosidase digestion and lectin affinity electrophoresis. Shimizu K, et al. **Clin Chim Acta** 1996 Oct 15;254(1):23–40

Comparative biochemistry of a cytosolic artiodactyl glycosidase. Cygan J, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):437–46

Arabinoxylan degradation by fungi: characterization of the arabinoxylan-arabinofuranohydrolase encoding genes from Aspergillus niger and Aspergillus tubingensis. Gielkens MM, et al. **Curr Genet** 1997 Jan;31(1):22–9

Detection and differentiation of pectic enzyme activity in vitro and in vivo by capillary electrophoresis of products from fluorescent-labeled substrate. Zhang Z, et al. **Electrophoresis** 1996 Feb;17(2):372–8

Differential requirement of the yeast sugar kinases for sugar sensing in establishing the catabolite-repressed state. De Winde JH, et al. **Eur J Biochem** 1996 Oct 15;241(2):633–43

Myrosinase-binding proteins are derived from a large wound-inducible and repetitive transcript. Taipalensuu J, et al. **Eur J Biochem** 1997 Feb 1;243(3):605–11

Substrate binding to the inactive mutants of Streptomyces sp. N174 chitosanase: indirect evaluation from the thermal unfolding experiments. Honda Y, et al. **FEBS Lett** 1997 Jul 14;411(2-3):346–50

Effect of various glycosidase treatments on the resistance of the HIV-1 envelope to degradation. Papandreou MJ, et al. **FEBS Lett** 1997 Apr 7;406(1-2):191–5

Stereochemical course of hydrolysis catalyzed by arabinofuranosyl hydrolases. Pitson SM, et al. **FEBS Lett** 1996 Nov 25;398(1):7–11

A model for Fis N-terminus and Fis-invertase recognition. Tzou WS, et al. **FEBS Lett** 1997 Jan 13;401(1):1–5

Purification and characterization of an exo-polygalacturonase from the tomato vascular wilt pathogen Fusarium oxysporum f.sp. lycopersici. Di Pietro A, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):295–9

The conserved tetracysteine motif in the general secretory pathway component PulE is required for efficient pullulanase secretion. Possot OM, et al. **Gene** 1997 Jun 11; 192(1):45–50

Structural and biological roles of glycosylations in pulmonary angiotensin I-converting enzyme. Baudin B, et al. **Glycobiology** 1997 Jun;7(4):565–70

Exoglycosidase purity and linkage specificity: assessment using oligosaccharide substrates and high-pH anion-exchange chromatography with pulsed amperometric detection [see comments] Tyagarajan K, et al. **Glycobiology** 1996 Jan;6(1):83–93. Comment in: Glycobiology 1996 Jul;6(5):v–vii.

A fluorometric assay of ceramide glycanase with 4-methylumbelliferyl beta-D-lactoside derivatives. Wang LX, et al. **Glycoconj J** 1996 Jun;13(3):359–65

Luminal bacteria and proteases together decrease adherence of Entamoeba histolytica trophozoites to Chinese hamster ovary epithelial cells: a novel host defence against an enteric pathogen. Variyam EP. **Gut** 1996 Oct;39(4):521–7

Postnatal development of glycosidases and gangliosides in the rat central nervous system. Prasad VV. **Int J Dev Neurosci** 1996 Jul;14(4):481–7

Sequencing of a 1,3-1,4-beta-D-glucanase (lichenase) from the anaerobic fungus Orpinomyces strain PC-2: properties of the enzyme expressed in Escherichia coli and evidence that the gene has a bacterial origin. Chen H, et al. **J Bacteriol** 1997 Oct;179(19):6028–34

Contribution of a neopullulanase, a pullulanase, and an alpha-glucosidase to growth of Bacteroides thetaiotaomicron on starch. D'Elia JN, et al. **J Bacteriol** 1996 Dec;178(24):7173–9

Turnover of heparan sulfate depends on 2-O-sulfation of uronic acids. Bai X, et al. **J Biol Chem** 1997 Sep 12; 272(37):23172–9

Abeta(1-40) prevents heparanase-catalyzed degradation of heparan sulfate glycosaminoglycans and proteoglycans in vitro. A role for heparan sulfate proteoglycan turnover in Alzheimer's disease. Bame KJ, et al. **J Biol Chem** 1997 Jul 4;272(27):17005–11

Heparanases produce distinct populations of heparan sulfate glycosaminoglycans in Chinese hamster ovary cells. Bame KJ, et al. **J Biol Chem** 1997 Jan 24;272(4):2245–51

Isolation and characterization of the cDNA encoding bovine poly(ADP-ribose) glycohydrolase. Lin W, et al. **J Biol Chem** 1997 May 2;272(18):11895–901

Heparanase and a synthetic peptide of heparan sulfate-interacting protein recognize common sites on cell surface and extracellular matrix heparan sulfate. Marchetti D, et al. **J Biol Chem** 1997 Jun 20;272(25):15891–7

Endothelial cell heparanase modulation of lipoprotein lipase activity. Evidence that heparan sulfate oligosaccharide is an extracellular chaperone. Pillarisetti S, et al. **J Biol Chem** 1997 Jun 20;272(25):15753–9

Catalysis by a new sialidase, deaminoneuraminic acid residue-cleaving enzyme (KDNase Sm), initially forms a less stable alpha-anomer of 3-deoxy-D-glycero-D-galacto-nonulosonic acid and is strongly inhibited by the transition state analogue, 2-deoxy-2, 3-didehydro-D-glycero-D-galacto-2-nonulopyranosonic acid, but not by 2-deoxy-2,3-didehydro-N-acetylneuraminic acid. Terada T, et al. **J Biol Chem** 1997 Feb 28;272(9):5452–6

The interaction between basic fibroblast growth factor and heparan sulfate can prevent the in vitro degradation of the glycosaminoglycan by Chinese hamster ovary cell heparanases. Tumova S, et al. **J Biol Chem** 1997 Apr 4; 272(14):9078–85

A pathway for targeting soluble misfolded proteins to the yeast vacuole. Hong E, et al. **J Cell Biol** 1996 Nov; 135(3):623–33

Specific degradation of subendothelial matrix proteoglycans by brain-metastatic melanoma and brain endothelial cell heparanases. Marchetti D. **J Cell Physiol** 1997 Sep; 172(3):334–42

Development of a method to detect secretory mucinolytic activity from Candida albicans. Colina AR, et al. **J Med Vet Mycol** 1996 Nov-Dec;34(6):401–6

Prevalence of temperature sensitive folding mutations in the parallel beta coil domain of the phage P22 tailspike endorhamnosidase. Haase-Pettingell C, et al. **J Mol Biol** 1997 Mar 21;267(1):88–102

Purification and characterization of placental heparanase and its expression by cultured cytotrophoblasts. Goshen R, et al. **Mol Hum Reprod** 1996 Sep;2(9):679–84

Increased potato tuber size resulting from apoplastic expression of a yeast invertase. Sonnewald U, et al. **Nat Biotechnol** 1997 Aug;15(8):794–7

Disulphide-bonded intermediate on the folding and assembly pathway of a non-disulphide bonded protein [see comments] Robinson AS, et al. **Nat Struct Biol** 1997 Jun; 4(6):450–5. Comment in: Nat Struct Biol 1997 Jun;4(6):424–7.

Polynucleotide:adenosine glycosidase activity of ribosome-inactivating proteins: effect on DNA, RNA and poly(A). Barbieri L, et al. **Nucleic Acids Res** 1997 Feb 1; 25(3):518–22

Invertase in immobilized cells of Papaver somniferum L. Stahó J, et al. **Pharmazie** 1997 Mar;52(3):242–4

The maize pathogenesis-related PRms protein localizes to plasmodesmata in maize radicles. Murillo I, et al. **Plant Cell** 1997 Feb;9(2):145–56

Enzymatic treatment to enhance carotenoid content in dehydrated marigold flower meal. Delgado-Vargas F, et al. **Plant Foods Hum Nutr** 1997;50(2):163–9

Antisense acid invertase (TIV1) gene alters soluble sugar composition and size in transgenic tomato fruit. Klann EM, et al. **Plant Physiol** 1996 Nov;112(3):1321–30

The crystal structure of rhamnogalacturonase A from Aspergillus aculeatus: a right-handed parallel beta helix. Petersen TN, et al. **Structure** 1997 Apr 15;5(4):533–44

Alternative expression of a chitosanase gene produces two different proteins in cells infected with Chlorella virus CVK2. Yamada T, et al. **Virology** 1997 Apr 14;230(2):361–8

[Contribution to the study of the origin of cellulase activities of the gut in earthworm Eisenia fetida andrei] Vinceslas-Akpa M, et al. **C R Acad Sci III** 1996 Dec; 319(12):1113–7 (Eng. Abstr.) **(Fre)**

[The effect of Maillard reaction products on enzyme reactions] Schumacher D, et al. **Z Ernahrungswiss** 1996 Sep;35(3):213–25 (108 ref.) (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Sperm counts in enzymatically liquefied cervical mucus: quantitative validation using donor cervical mucus. de Agostini A, et al. **Hum Reprod** 1996 Feb;11(2):318–24

An enzyme additive for corn silage: effects on silage composition and animal performance. Sheperd AC, et al. **J Dairy Sci** 1996 Oct;79(10):1760–66

Effects of an enzyme additive on composition of corn silage ensiled at various stages of maturity. Sheperd AC, et al. **J Dairy Sci** 1996 Oct;79(10):1767–73

The polysialic acid modification of the neural cell adhesion molecule is involved in spatial learning and hippocampal long-term potentiation. Becker CG, et al. **J Neurosci Res** 1996 Jul 15;45(2):143–52

The effect of thermal processing and enzyme treatments of soybean meal on growth performance, ileal nutrient digestibilities, and chyme characteristics in broiler chicks. Marsman GJ, et al. **Poult Sci** 1997 Jun;76(6):864–72

SECRETION

Secretion of two beta-fructofuranosidases by Aspergillus niger growing in sucrose. Wallis GL, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):214–22

Energy requirement for pullulanase secretion by the main terminal branch of the general secretory pathway. Possot OM, et al. **Mol Microbiol** 1997 May;24(3):457–64

Identification of two regions of Klebsiella oxytoca pullulanase that together are capable of promoting beta-lactamase secretion by the general secretory pathway. Sauvonnet N, et al. **Mol Microbiol** 1996 Oct;22(1):1–7

Invertase secretion in Hansenula polymorpha under the AOX1 promoter from Pichia pastoris. Rodriguez L, et al. **Yeast** 1996 Jul;12(9):815–22

Enhancement of protein secretion in Saccharomyces cerevisiae by overproduction of Sso protein, a late-acting component of the secretory machinery. Ruohonen L, et al. **Yeast** 1997 Mar 30;13(4):337–51

ULTRASTRUCTURE

Crystal structure of phage P22 tailspike protein complexed with Salmonella sp. O-antigen receptors. Steinbacher S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10584–8

GLYCOSIDES

Molecular recognition of saccharides using synthesized glycated surface active reagents. Hanai T, et al. **Biomed Chromatogr** 1996 Jan–Feb;10(1):25–8

Pregnane glycosides. Deepak D, et al. **Fortschr Chem Org Naturst** 1997;71:169–325 (311 ref.)

ADMINISTRATION & DOSAGE

Modulation of age-related changes in immune functions of protein-deficient senescence-accelerated mice by dietary nucleoside-nucleotide mixture supplementation. Ameho CK, et al. **Br J Nutr** 1997 May;77(5):795–804

The arterial antithrombotic activity of thioxylosides in a rat model of laser-induced thrombosis. Aguejouf O, et al. **Semin Thromb Hemost** 1996;22(4):327–33

Pharmacologic and biochemical profiles of new venous antithrombotic beta-D-xyloside derivatives: potential antiathero/thrombotic drugs. Martin NB, et al. **Semin Thromb Hemost** 1996;22(3):247–54

Antibody responses in volunteers induced by nasal influenza vaccine combined with Escherichia coli heat-labile enterotoxin B subunit containing a trace amount of the holotoxin. Hashigucci K, et al. **Vaccine** 1996 Feb; 14(2):113–9

ADVERSE EFFECTS

Leukaemia during podophyllotoxin treatment in a patient with juvenile chronic arthritis [letter] Kauppi M, et al. **Scand J Rheumatol** 1996;25(5):340

ANALYSIS

Steroidal glycoalkaloids in Andean potatoes. Kubo I, et al. **Adv Exp Med Biol** 1996;405:405–17 (30 ref.)

Study of the distribution of glycosidic residues in eccrine sweat glands, with special reference to the content of sialic acid. Illana M, et al. **Eur J Histochem** 1997;41(1):41–6

A simple determination of steroidal alkaloid glycosides by thin-layer chromatography immunostaining using monoclonal antibody against solamargine. Tanaka H, et al. **FEBS Lett** 1997 Mar 10;404(2–3):279–82

Fractionation of glycoside precursors of aroma in grapes and wine. Mateo JJ, et al. **J Chromatogr A** 1997 Aug 22; 778(1–2):219–24

High-performance liquid chromatography/continuous-flow liquid secondary ion mass spectrometry of flavonoid glycosides in leguminous plant extracts. Sumner LW, et al. **J Mass Spectrom** 1996 May;31(5):472–85

Linear, steroidal, and triterpene esters, and steryl glycosides from Festuca argentina. Casabuono AC, et al. **Lipids** 1997 Feb;32(2):205–10

Liquid secondary ion mass spectrometry of methyl glycosides of oligosaccharides using matrices containing carboxamides. Kováčik V, et al. **Rapid Commun Mass Spectrom** 1996;10(13):1661–7

Analysis of glycosidic linkages in saccharide compounds by post-source decay fragment methods in matrix-assisted laser desorption/ionization time-of-flight mass spectroscopy. Yamagaki T, et al. **Rapid Commun Mass Spectrom** 1997;11(5):527–31

[Efficacy of nasal influenza vaccine combined with Escherichia coli heat-labile enterotoxin B subunit containing a trace amount of the holotoxin in healthy volunteers] Hashigucci K, et al. **Kansenshogaku Zasshi** 1997 Feb;71(2):153–61 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Enzymic synthesis of 3'-O- and 6'-O-N-acetylglucosaminyl-N-acetyllactosaminide glycosides catalyzed by beta-N-acetyl-D-hexosaminidase from Nocardia orientalis. Murata T, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):326–34

The effect of carbon source, temperature and aeration on the production of ascosteroside, a novel antifungal agent, by Ascotricha amphitricha. Lowe SE, et al. **J Antibiot (Tokyo)** 1997 May;50(5):412–7

BLOOD

The identification of flavonoids as glycosides in human plasma. Paganga G, et al. **FEBS Lett** 1997 Jan 13; 401(1):78–82

CHEMICAL SYNTHESIS

Chemical synthesis of 4-trifluoromethylumbelliferyl-alpha-D-N-acetylneuraminic acid glycoside and its use for the fluorometric detection of poorly expressed natural and recombinant sialidases. Engstler M, et al. **Anal Biochem** 1997 Aug 1;250(2):176–80

Design and synthesis of C-linked fucosides as inhibitors of E-selectin. Uchiyama T, et al. **Bioorg Med Chem** 1996 Jul; 4(7):1149–65

A direct enzymatic synthesis of beta-D-galactopyranosyl-D-xylopyranosides and their use to evaluate rat intestinal lactase activity in vivo. Aragón JJ, et al. **Carbohydr Res** 1996 Sep 2;290(2):209–16

Efficient, convergent syntheses of oligosaccharide allyl glycosides corresponding to the Streptococcus group A cell-wall polysaccharide. Auzanneau FI, et al. **Carbohydr Res** 1996 Sep 23;291:21–41

N-trichloroethoxycarbonyl-glucosamine derivatives as glycosyl donors. Dullenkopf W, et al. **Carbohydr Res** 1996 Dec 24;296:135–47

Synthesis of O-glycopyranosyl heterocyclic ketene aminals and their use as glycosyl donors. Li ZJ, et al. **Carbohydr Res** 1996 Dec 13;295:77–89

Studies on alpha-sialylation using sialyl donors with an auxiliary 3-thiophenyl group. Martichonok V, et al. **Carbohydr Res** 1997 Aug 7;302(3–4):123–9

Synthesis of amphiphilic lactosides that possess a lactosylceramide-mimicking N-acyl structure: alternative universal substrates for endo-type glycosylceramidases. Miura Y, et al. **Carbohydr Res** 1996 Aug 19;289:193–9

Synthesis of four glycosides of a disaccharide fragment representing the terminus of the O-polysaccharide of Vibrio cholerae O:1, serotype Inaba, bearing aglycons suitable for linking to proteins. Ogawa Y, et al. **Carbohydr Res** 1996 Jul 19;288:85–98

Synthesis of eight glycosides of hexasaccharide fragments representing the terminus of the O-polysaccharide of Vibrio cholerae O:1, serotype Inaba and Ogawa, bearing aglycons suitable for linking to proteins. Ogawa Y, et al. **Carbohydr Res** 1996 Oct 31;293(2):173–94

Synthesis of methyl alpha-glycosides of some higher oligosaccharide fragments of the O-antigen of Vibrio cholerae O1, serotype Inaba and Ogawa. Zhang J, et al. **Carbohydr Res** 1997 May 19;300(4):329–39

Antitumor agents. 169 Dysoxylum cumingianum. V. Cumingianosides P and Q, new cytotoxic triterpene glucosides with an apotirucallane-type skeleton from Dysoxylum cumingianum. Fujioka T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan;45(1):202–6

Bioactive saponins and glycosides. X. On the constituents of zizyphi spinosi semen, the seeds of Zizyphus jujuba Mill. var. spinosa Hu (1): structures and histamine release-inhibitory effect of jujubosides A1 and C and acetyljujuboside B. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1186–92

Synthesis of glycosides in which the aglycon is an N-(hydroxymethyl)amino-1,3,5-triazine derivative [letter] Bagga K, et al. **Glycoconj J** 1997 Jun;14(4):519–21

A fluorometric assay of ceramide glycanase with 4-methylumbelliferyl beta-D-lactoside derivatives. Wang LX, et al. **Glycoconj J** 1996 Jun;13(3):359–65

Convenient synthesis of beta-(1-->3)-galactosyl disaccharide alpha-glycoside and its analogs as mimic units of mucin-type carbohydrate. Murata T, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):851–5

Synthesis of a novel vitamin E derivative, 2-(alpha-D-glucopyranosyl) methyl-2,5,7,8-tetramethylchroman-6-ol, by alpha-glucosidase-catalyzed transglycosylation. Murase H, et al. **Lipids** 1997 Jan;32(1):73–8

Synthesis and anti-proliferative activity of 2-hydroxy-1,2-dihydroacronycine glycosides. Mitaku S, et al. **Pharm Res** 1996 Jun;13(6):939–43

[Synthesis of triterpene 2-deoxy-alpha-D-hexopyranosides on the basis of glycals and their effect on reparative processes] Baltina LA, et al. **Bioorg Khim** 1997 Jun; 23(6):512–8 (Eng. Abstr.) **(Rus)**

[Synthesis and antiproliferative properties of glycosides of bis(indolyl)furan-2,5-dione and bis(indolyl)-1H-pyrrol-2,5-dione] Mel'nik SIa, et al. **Bioorg Khim** 1996 Jun;22(6):458–67 (Eng. Abstr.) **(Rus)**

[3-(1H-indol-3-yl)-4-(1-glykozylindol-3-yl)-1H-pyrrole-2,5-diones: synthesis and study of antiproliferative properties] Mel'nik SIa, et al. **Bioorg Khim** 1996 Oct-Nov; 22(10–11):832–7 (Eng. Abstr.) **(Rus)**

[Studies in the area of asymmetrically substituted myoinositol derivatives. XXXVIII. Synthesis of phosphatidylinositol glycoside] Shastina NS, et al. **Bioorg Khim** 1996 Jun; 22(6):446–50 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Thermal behavior of steroidal glycosides. Bobeyko VA, et al. **Adv Exp Med Biol** 1996;405:271–80

Novel fluorinated surfactants for perfluorochemical emulsification: biocompatibility assessments of glycosidic and polyol derivatives. Edwards CM, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):327–33

N-Tetrachlorophthaloyl (TCP) for ready protection/deprotection of amino sugar glycosides. Debenham JS, et al. **Bioorg Med Chem** 1996 Nov; 4(11):1909–18

Hexose keto-C-glycoside conjugates: design, synthesis, cytotoxicity, and evaluation of their affinity for the glucose transporter Glut-1. Uriel C, et al. **Bioorg Med Chem** 1996 Dec;4(12):2081–90

Synthesis and glycosidic coupling reaction of substituted 2,6-dioxabicyclo[3.1.0]hexanes: 1,2-anhydro-3,5-di-O-benzyl-alpha-D-ribofuranose. Ning J, et al. **Carbohydr Res** 1997 May 19;300(4):355–60

Oleanene-type triterpene glycosides from puerariae radix. IV. Six new saponins from Pueraria lobata. Arao T, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):362–6

Antitumor agents. 168. Dysoxylum cumingianum. IV. The structures of cumingianosides G-O, new triterpene glucosides with a 14,18-cycloapotirucallane-type skeleton from Dysoxylum cumingianum, and their cytotoxicity against human cancer cell lines. Fujioka T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan;45(1):68–74

Antitumor agents. 169 Dysoxylum cumingianum. V. Cumingianosides P and Q, new cytotoxic triterpene glucosides with an apotirucallane-type skeleton from Dysoxylum cumingianum. Fujioka T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan;45(1):202–6

Indonesian medicinal plants. XIX. 1) Chemical structures of four additional resin-glycosides, mammosides A, B, H1, and H2, from the tuber of Merremia mammosa (Convolvulaceae). Kitagawa I, et al. **Chem Pharm Bull (Tokyo)** 1997 May;45(5):786–94

Indonesian medicinal plants. XV. Chemical structures of five new resin-glycosides, merremosides a, b, c, d, and e, from the tuber of Merremia mammosa (Convolvulaceae). Kitagawa I, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep; 44(9):1680–92

Indonesian medicinal plants. XVI. Chemical structures of four new resin-glycosides, merremosides f, g, h1, and h2, from the tuber of Merremia mammosa (Convolvulaceae). Kitagawa I, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep; 44(9):1693–9

The effects of glucose oligomers (maltodextrins) on freeze-drying liposomes. Ozaki K, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan;45(1):165–70

Steroidal glycosides from the fresh stem of Stephanotis lutchuensis var. japonica (Asclepiadaceae). Chemical structures of stephanosides K-Q. Yoshikawa K, et al. **Chem Pharm Bull (Tokyo)** 1996 Dec;44(12):2243–8

Bioactive saponins and glycosides. VIII. Notoginseng (1): new dammarane-type triterpene oligoglycosides, notoginsenosides-A, -B, -C, and -D, from the dried root of Panax notoginseng (Burk.) F.H. Chen. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):1039–45

Bacterial triterpenoids of the hopane series from the prochlorophyte Prochlorothrix hollandica and their intracellular localization. Simonin P, et al. **Eur J Biochem** 1996 Nov 1;241(3):865–71

Effects of primer-concentration on uronosyl-epimerization and sulfation patterns in p-hydroxyphenyl-O-beta-D-xylopyranoside-primed galactosaminoglycans produced by skin fibroblasts. Cheng F, et al. **Glycoconj J** 1997 Feb;14(2):297–305

Structure of the ascarosides from Ascaris suum. Bartley JP, et al. **J Nat Prod** 1996 Oct;59(10):921–6

Pyridine monoterpene alkaloid formation from iridoid glycosides. A novel PMTA dimer from geniposide. Frederiksen SM, et al. **J Nat Prod** 1996 Jan;59(1):41–6

Structure of eximisoside A, a novel triterpene glycoside from the Far-Eastern sea cucumber psolus eximius. Kalinin VI, et al. **J Nat Prod** 1997 Aug;60(8):817–9

Structural investigation of resin glycosides from Ipomoea lonchophylla. MacLeod JK, et al. **J Nat Prod** 1997 May; 60(5):467–71

Complement-modulating properties of a kaempferol 7-O-rhamnosylsophoroside from the leaves of Morinda morindoides. Cimanga K, et al. **Planta Med** 1997 Jun; 63(3):220–3

New furostanol glycosides, chinenoside IV and V, from Allium chinense. Peng J, et al. **Planta Med** 1996 Oct;

62(5):465–8
Determination of aglycones of ginsenosides in ginseng preparations sold in Sweden and in urine samples from Swedish athletes consuming ginseng. Cui JF, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):151–60
Control of water–borne parasitic diseases with natural products: the potential of Dialium guineense as a molluscicide. Houghton PJ, et al. **Trop Doct** 1997;27 Suppl 1:26–9
[Synthesis and NMR spectra and conformation of branched oligosaccharides. 16. Synthesis of 3,4–di–O–glycosylated derivatives of methyl–alpha–L–rhamnopyranoside] Khatuntseva EA, et al. **Bioorg Khim** 1996 May;22(5):376–82 (Eng. Abstr.) **(Rus)**
[Synthesis of terminal disaccharide of Forssman antigen and its analogs as spacer glycosides and free disaccharides] Ovchinnikova TV, et al. **Bioorg Khim** 1997 Jan;23(1):61–74 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Steroidal glycosides from Nicotiana tabacum L. seeds and their biological activity. Shvets SA, et al. **Adv Exp Med Biol** 1996;405:247–57
Steroidal glycosides from Petunia hybrida L. seeds and their biological activity. Shvets SA, et al. **Adv Exp Med Biol** 1996;404:251–62
Two new monoterpene glycosides from ku–ding–cha. Inhibitors of acyl–CoA: cholesterol acyltransferase (ACAT). Fukuda T, et al. **Chem Pharm Bull (Tokyo)** 1996 Nov;44(11):2173–6
Studies on the constituents of Cimicifuga species. XIX. Eight new glycosides from Cimicifuga simplex Wormsk. Kusano A, et al. **Chem Pharm Bull (Tokyo)** 1996 Nov; 44(11):2078–85
Constituents of a fern, Diplazium subsinuatum. II. Structure elucidation of five new hopane–triterpene glycosides. Nakanishi T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan; 45(1):8–12
Bioactive constituents of Chinese natural medicines. II. Rhodiolae radix. (1). Chemical structures and antiallergic activity of rhodiocyanosides A and B from the underground part of Rhodiola quadrifida (Pall.) Fisch. et Mey. (Crassulaceae). Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Nov;44(11):2086–91
Medicinal foodstuffs. II. On the bioactive constituents of the tuber of Sagittaria trifolia L. (Kuwai, Alismataceae): absolute stereostructures of trifoliones A, B, C, and D, sagittariosides a and b, and arabinothalictoside. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):492–9
Koreoside A, a new nonholostane triterpene glycoside from the sea cucumber Cucumaria koraiensis. Avilov SA, et al. **J Nat Prod** 1997 Aug;60(8):808–10
Flavonol and chalcone ester glycosides from Bidens leucantha. De Tommasi N, et al. **J Nat Prod** 1997 Mar; 60(3):270–3
Adenosine–1 active ligands: cirsimarin, a flavone glycoside from Microtea debilis. Hasrat JA, et al. **J Nat Prod** 1997 Jun;60(6):638–41
Cytotoxic glycosides from Albizia julibrissin. Ikeda T, et al. **J Nat Prod** 1997 Feb;60(2):102–7
Antimicrobial and cytotoxic phenolic glycoside esters from the New Zealand tree Toronia toru. Perry NB, et al. **J Nat Prod** 1997 Jun;60(6):623–6
Antifungal activity of a new triterpenoid glycoside from Pithecellobium racemosum (M.). Khan IA, et al. **Pharm Res** 1997 Mar;14(3):358–61
Cycloartane triterpene glycosides from the roots of Astragalus melanophrurius [letter] Caliş I, et al. **Planta Med** 1997 Apr;63(2):183–6
Isolation and immunomodulatory effect of flavonol glycosides from Epimedium hunanense. Liang HR, et al. **Planta Med** 1997 Aug;63(4):316–9
Control of water–borne parasitic diseases with natural products: the potential of Dialium guineense as a molluscicide. Houghton PJ, et al. **Trop Doct** 1997;27 Suppl 1:26–9
Topical anti–inflammatory lignans from Haplophyllum hispanicum. Prieto JM, et al. **Z Naturforsch [C]** 1996 Sep–Oct;51(9–10):618–22

METABOLISM

Synthesis of kojitriose using silicon–tethered glycosidation. Bols M. **Acta Chem Scand** 1996 Oct;50(10):931–7
Purification and characterization of a beta–glucosidase which converts furostanol glycosides to spirostanol glycosides from Costus speciosus. Inoue K, et al. **Adv Exp Med Biol** 1996;404:57–69
Glycosidases that convert natural glycosides to bioactive compounds. Sung CK, et al. **Adv Exp Med Biol** 1996; 404:23–36 (21 ref.)
Oral absorption and metabolism of quercetin and sugar–conjugated derivatives in specific transport systems. Noteborn HP, et al. **Cancer Lett** 1997 Mar 19; 114(1–2):175–7
Mechanism of anomerization of cyclohexyl 2–deoxy–3,4,6–tri–O–methyl–2–(N–methylacetamido)–alpha– and beta–D–hexopyranosides under reductive–cleavage conditions. Ahn YM, et al. **Carbohydr Res** 1996 Dec 24;296:215–27
Action pattern of porcine pancreatic alpha–amylase on three different series of beta–maltooligosaccharide glycosides. Kandra L, et al. **Carbohydr Res** 1997 Mar 5;298(3):237–42
Conversion of p–methoxyphenyl glycosides into the corresponding glycosyl chlorides and bromides, and into thiophenyl glycosides. Zhang Z, et al. **Carbohydr Res** 1996 Dec 13;295:41–55
Alkylglycosides as artificial primers for glycogen biosynthesis. Meezan E, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 May;43(3):369–81
Phosphorylated nitrate reductase from spinach leaves is inhibited by 14–3–3 proteins and activated by fusicoccin. Moorhead G, et al. **Curr Biol** 1996 Sep 1;6(9):1104–13
Plant cell pH–static circuit mediated by fusicoccin–binding proteins. Drabkin AV, et al. **FEBS Lett** 1997 Mar 24; 405(2):145–7
The metabolic production of 4–methylumbelliferone and its beta–D–glucuronide from the corresponding beta–D–xyloside by fibroblasts in culture. Zaidi KF, et al. **FEBS Lett** 1981 Nov 2;134(1):91–5
Cloning of a Bacillus sp. BP–23 gene encoding a xylanase with high activity against aryl xylosides. Blanco A, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):285–90
Influence of L–fucose attached alpha 1–>6 to the asparagine–linked N–acetylglucosamine on the hydrolysis of the N–glycosidic linkage by human glycosylasparaginase. Noronkoski T, et al. **Glycobiology** 1997 Mar;7(2):217–20
The effect of carbon source, temperature and aeration on the production of ascosteroside, a novel antifungal agent, by Ascotricha amphitricha. Lowe SE, et al. **J Antibiot (Tokyo)** 1997 May;50(5):412–7
Intestinal UDP–glucuronosyltransferase activities in rat and rabbit. Vargas M, et al. **Xenobiotica** 1997 May;27(5):413–21

PHARMACOLOGY

Steroidal glycosides from Nicotiana tabacum L. seeds and their biological activity. Shvets SA, et al. **Adv Exp Med Biol** 1996;405:247–57
Antiviral activity of tomatoside from Lycopersicon esculentum Mill. Spinu K, et al. **Adv Exp Med Biol** 1996; 404:505–9
Induction of emphysematous lesions in rat lung by beta–D–xyloside, an inhibitor of proteoglycan synthesis. van Kuppevelt TH, et al. **Am J Respir Cell Mol Biol** 1997 Jan;16(1):75–84
In vivo phosphorylation of phosphoenolpyruvate carboxylase in guard cells of Vicia faba L. is enhanced by fusicoccin and suppressed by abscisic acid. Du Z, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):345–50
Effect of capsianoside, a diterpene glycoside, on tight–junctional permeability. Hashimoto K, et al. **Biochim Biophys Acta** 1997 Jan 31;1323(2):281–90
Hypoglycemic activity and structure–activity relationship of iridoidal glycosides. Miura T, et al. **Biol Pharm Bull** 1996 Jan;19(1):160–1
Cytotoxic activities of solanum steroidal glycosides. Nakamura T, et al. **Biol Pharm Bull** 1996 Apr;19(4):564–6
Ergot alkaloid glycosides with immunomodulatory activities. Křen V, et al. **Bioorg Med Chem** 1996 Jun;4(6):869–76
Hexose keto–C–glycoside conjugates: design, synthesis, cytotoxicity, and evaluation of their affinity for the glucose transporter Glut–1. Uriel C, et al. **Bioorg Med Chem** 1996 Dec;4(12):2081–90
Effect of Anapsos (Polypodium leucotomos extract) on in vitro production of cytokines. Sempere JM, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):85–9
Dietary quercetin glycosides: antioxidant activity and induction of the anticarcinogenic phase II marker enzyme quinone reductase in Hepalclc7 cells. Williamson G, et al. **Carcinogenesis** 1996 Nov;17(11):2385–7
Antitumor agents. 168. Dysoxylum cumingianum. IV. The structures of cumingianosides G–O, new triterpene glucosides with a 14,18–cycloapotirucallane–type skeleton from Dysoxylum cumingianum, and their cytotoxicity against human cancer cell lines. Fujioka T, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan;45(1):68–74
Bioactive saponins and glycosides. X. On the constituents of zizyphi spinosi semen, the seeds of Zizyphus jujuba Mill. var. spinosa Hu (1): structures and histamine release–inhibitory effect of jujubosides A1 and C and acetyljujuboside B. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1186–92
Chromosomal changes in rheumatoid arthritis patients treated with CPH82. Rantapää Dahlqvist S, et al. **Clin Rheumatol** 1996 Nov;15(6):584–9
Effects of primer–concentration on uronosyl–epimerization and sulfation patterns in p–hydroxyphenyl–O–beta–D–xylopyranoside–primed galactosaminoglycans produced by skin fibroblasts. Cheng F, et al. **Glycoconj J** 1997 Feb;14(2):297–305
Effects of triterpenoid glycosides of the dammaran series and their aglycons on phase transitions of dipalmitoylphosphatidylcholine. Akoev VR, et al. **Membr Cell Biol** 1997;10(6):657–63
Effects of anapsos on the activity of the enzyme Cu–Zn–superoxide dismutase in an animal model of neuronal degeneration. Fernández–Novoa L, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar;19(2):99–106
Natural products with hepatoprotective action. Utrilla MP. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:11–2
Subchronic exposure of cardiomyocytes to low concentrations of tumor necrosis factor alpha attenuates the positive inotropic response not only to catecholamines but also to cardiac glycosides and high calcium concentrations. Boekstegers P, et al. **Mol Cell Biochem** 1996 Mar 23;156(2):135–43
Echinacoside and caffeoyl conjugates protect collagen from free radical–induced degradation: a potential use of Echinacea extracts in the prevention of skin photodamage. Facino RM, et al. **Planta Med** 1995 Dec;61(6):510–4
Antineoplastic agents; I. Three spirostanol glycosides from rhizomes of Dioscorea collettii var. hypoglauca. Hu K, et al. **Planta Med** 1996 Dec;62(6):573–5
The effects of glutathione glycoside in methyl mercury poisoning. Choi BH, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):357–64
[Alteration of mRNA transcripts of rat Sertoli cell secreted proteins and Leydig cell LH/CG–R protein following glycosides of Tripterigium Wilfordii Hook administration] Zheng W, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):104–10 (Eng. Abstr.) **(Chi)**
[Synthesis and antiproliferative properties of glycosides of bis(indolyl)furan–2,5–dione and bis(indolyl)–1H–pyrrol–2,5–dione] Mel'nik SIa, et al. **Bioorg Khim** 1996 Jun;22(6):458–67 (Eng. Abstr.) **(Rus)**

SECRETION

Undersulfated beta–D–xyloside glycosaminoglycans are secreted in the presence of the ionophore monensin. Kajiwara T, et al. **FEBS Lett** 1981 Nov 2;134(1):43–6

TOXICITY

Hemolytic activities of triterpene glycosides from the holothurian order Dendrochirotida: some trends in the evolution of this group of toxins. Kalinin VI, et al. **Toxicon** 1996 Apr;34(4):475–83

GLYCOSPHINGOLIPIDS

Recognition of glycoconjugates by Helicobacter pylori: an apparently high–affinity binding of human polyglycosylceramides, a second sialic acid–based specificity. Miller–Podraza H, et al. **Glycoconj J** 1996 Jun; 13(3):453–60

ANALYSIS

Heart muscle cells share common neutral glycosphingolipids with Trypanosoma cruzi. Vermelho AB, et al. **Acta Trop** 1997 Apr 15;64(3–4):131–43
The lipophosphoglycan–like molecules of virulent and avirulent E. histolytica as well as of E. dispar differ in both composition and abundance. Moody S, et al. **Arch Med Res** 1997;28 Spec No:98–102
Blood group B glycosphingolipids in alpha–galactosidase deficiency (Fabry disease): influence of secretor status. Ledvinová J, et al. **Biochim Biophys Acta** 1997 Apr 1; 1345(2):180–7
Developmental changes in carbohydrate antigens in embryonic rat lens. Ogiso M, et al. **Glycobiology** 1997 Jul; 7(5):605–15
Microscale analysis of glycosphingolipids by TLC blotting/secondary ion mass spectrometry: a novel blood group A–active glycosphingolipid and changes in glycosphingolipid expression in rat mammary tumour cells with different metastatic potentials. Kasama T, et al. **Glycoconj J** 1996 Jun;13(3):461–9
The degradation of glycosphingolipids by air. Jennemann R, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):150–4
Extensive glycosphingolipid depletion in the liver and lymphoid organs of mice treated with N–butyldeoxynojirimycin. Platt FM, et al. **J Biol Chem** 1997 Aug 1;272(31):19365–72

ANTAGONISTS & INHIBITORS

Agents that reverse multidrug resistance, tamoxifen, verapamil, and cyclosporin A, block glycosphingolipid metabolism by inhibiting ceramide glycosylation in human cancer cells. Lavie Y, et al. **J Biol Chem** 1997 Jan 17; 272(3):1682–7

BIOSYNTHESIS

Glycosphingolipid synthesis and proliferation in a renal cell line grown in high glucose. el–Khatib M, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F476–84
The yeast mic2 mutant is defective in the formation of mannosyl–diinositolphosphorylceramide. Leber A, et al. **FEBS Lett** 1997 Jul 14;411(2–3):211–4
Pathways of glycosphingolipid biosynthesis in SW13 cells in the presence and absence of vimentin intermediate filaments. Gillard BK, et al. **Glycobiology** 1996 Jan; 6(1):33–42
Studies of the action of ceramide–like substances (D– and L–PDMP) on sphingolipid glycosyltransferases and purified lactosylceramide synthase. Chatterjee S, et al. **Glycoconj J** 1996 Jun;13(3):481–6
Stage–specific expression of fuco–neolacto– (Lewis X) and ganglio–series neutral glycosphingolipids during brain development: characterization of Lewis X and related glycosphingolipids in bovine, human and rat brain. Dasgupta S, et al. **Glycoconj J** 1996 Jun;13(3):367–75
Expression cloning of rat cDNA encoding UDP–galactose:GD2 beta1,3–galactosyltransferase that

determines the expression of GD1b/GM1/GA1. Miyazaki H, et al. **J Biol Chem** 1997 Oct 3;272(40):24794–9

Induction of ganglioside biosynthesis and neurite outgrowth of primary cultured neurons by L-threo-1-phenyl-2-decanoylamino-3-morpholino-1-propanol. Usuki S, et al. **J Neurochem** 1996 Nov; 67(5):1821–30

Extracellular matrix upregulates synthesis of glucosylceramide-based glycosphingolipids in primary Schwann cells. Farrer RG, et al. **J Neurosci Res** 1996 Aug 1;45(3):248–57

Carbohydrate and LPG expression in Leishmania viannia subgenus. Muskus C, et al. **J Parasitol** 1997 Aug;83(4):671–8

Expression cloning of a cDNA for human ceramide glucosyltransferase that catalyzes the first glycosylation step of glycosphingolipid synthesis. Ichikawa S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12654

BLOOD

The levels of glycosphingolipids, ceramides, sialic acid and glycogen are changed in plasma membranes of rat platelets harvested during recovery from immune-mediated thrombocytopenia. Zdebska E, et al. **Acta Biochim Pol** 1996;43(3):547–55

Screening for the presence of polyglycosylceramides in various tissues: partial characterization of blood group-active complex glycosphingolipids of rabbit and dog small intestines. Miller-Podraza H, et al. **Glycoconj J** 1997 Feb;14(2):231–9

CHEMICAL SYNTHESIS

Rapid method of preparation of lysoglycosphingolipids and their confirmation by delayed extraction matrix-assisted laser desorption ionization time-of-flight mass spectrometry. Taketomi T, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):573–9

CHEMISTRY

Laurdan properties in glycosphingolipid-phospholipid mixtures: a comparative fluorescence and calorimetric study. Bagatolli LA, et al. **Biochim Biophys Acta** 1997 Apr 3;1325(1):80–90

Synthetic phospho-oligosaccharide fragments of lipophosphoglycan as acceptors for Leishmania major alpha-D-mannosylphosphate transferase. Brown GM, et al. **Eur J Biochem** 1996 Dec 1;242(2):410–6

Isolation and structural analysis of three neutral glycosphingolipids from a mixed population of Caenorhabditis elegans (Nematoda:Rhabditida). Gerdt S, et al. **Glycobiology** 1997 Mar;7(2):265–75

Structural characterization of glycophingolipids from the eggs of Schistosoma mansoni and Schistosoma japonicum. Khoo KH, et al. **Glycobiology** 1997 Jul;7(5):653–61

Characterization of lipophosphoglycan from a ricin-resistant mutant of Leishmania major. Opat A, et al. **Glycobiology** 1996 Jun;6(4):387–97

A novel glycosphingolipid expressed in pig kidney: Gal alpha 1-3Lewis(x) hexaglycosylceramide. Bouhours D, et al. **Glycoconj J** 1997 Jan;14(1):29–38

Structural characterization of blood group A glycosphingolipids recognized by the antibody 3G9-A. Briggs JB, et al. **Glycoconj J** 1996 Jun;13(3):487–94

Isolation and identification of novel sulfated and nonsulfated oligosialyl glycosphingolipids from sea urchin sperm. Ijuin T, et al. **Glycoconj J** 1996 Jun;13(3):401–13

Structural analysis of neutral glycosphingolipids from Ascaris suum adults (Nematoda:Ascaridida). Lochnit G, et al. **Glycoconj J** 1997 Apr;14(3):389–99

Screening for the presence of polyglycosylceramides in various tissues: partial characterization of blood group-active complex glycosphingolipids of rabbit and dog small intestines. Miller-Podraza H, et al. **Glycoconj J** 1997 Feb;14(2):231–9

Neutral glycosphingolipids and gangliosides from spleen T lymphoblasts of genetically different inbred mouse strains. Müthing J. **Glycoconj J** 1997 Feb;14(2):241–8

Structure-function analysis of Leishmania lipophosphoglycan. Distinct domains that mediate binding and inhibition of endothelial cell function. Ho JL, et al. **J Immunol** 1996 Oct 1;157(7):3013–20

Phosphoinositides and phosphoinositide-utilizing enzymes in detergent-insoluble lipid domains. Hope HR, et al. **Mol Biol Cell** 1996 Jun;7(6):843–51

Molecular interactions of the major myelin glycosphingolipids and myelin basic protein in model membranes. Maggio B. **Neurochem Res** 1997 Apr; 22(4):475–81

Virulent and avirulent Entamoeba histolytica and E. dispar differ in their cell surface phosphorylated glycolipids. Moody S, et al. **Parasitology** 1997 Feb;114 (Pt 2):95–104

GENETICS

Identification of genes mediating lipophosphoglycan biosynthesis by functional complementation of Leishmania donovani mutants. Beverley SM, et al. **Ann Trop Med Parasitol** 1995 Dec;89 Suppl 1:11–17 (33 ref.)

IMMUNOLOGY

Heart muscle cells share common neutral glycosphingolipids with Trypanosoma cruzi. Vermelho AB, et al. **Acta Trop** 1997 Apr 15;64(3–4):131–43

Antibodies to glycosphingolipid antigens in patients with immune-mediated cochleovestibular disorders. Lake GM 3rd, et al. **Am J Otol** 1997 Mar;18(2):175–8

In vitro mimicry of CaMBr1 tumor-associated antigen by synthetic oligosaccharides. Adobati E, et al. **Glycobiology** 1997 Mar;7(2):173–8

A novel glycosphingolipid expressed in pig kidney: Gal alpha 1-3Lewis(x) hexaglycosylceramide. Bouhours D, et al. **Glycoconj J** 1997 Jan;14(1):29–38

Simultaneous expression by porcine aorta endothelial cells of glycosphingolipids bearing the major epitope for human xenoreactive antibodies (Gal alpha 1-3Gal), blood group H determinant and N-glycolylneuraminic acid. Bouhours D, et al. **Glycoconj J** 1996 Dec;13(6):947–53

Immunogenicity of Neisseria gonorrhoeae lipooligosaccharide epitope 2C7, widely expressed in vivo with no immunochemical similarity to human glycosphingolipids [published erratum appears in J Infect Dis 1997 Apr;175(4):1027] Gulati S, et al. **J Infect Dis** 1996 Dec;174(6):1223–37

Regulation of the expression of nitric oxide synthase and leishmanicidal activity by glycoconjugates of Leishmania lipophosphoglycan in murine macrophages. Proudfoot L, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10984–9

ISOLATION & PURIFICATION

Heart muscle cells share common neutral glycosphingolipids with Trypanosoma cruzi. Vermelho AB, et al. **Acta Trop** 1997 Apr 15;64(3–4):131–43

Isolation of lipophosphoglycans from Leishmania donovani amastigotes. McNeely TB, et al. **Arch Biochem Biophys** 1996 Oct 1;334(1):1–8

Replacement of chloroform throughout glycosphingolipid isolation. Heitmann D, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):245–50

Purification of the lipophosphoglycan from two Leishmania mexicana strains by lectin affinity chromatography. Gorocica P, et al. **Prep Biochem Biotechnol** 1997 Feb; 27(1):1–17

[New approach to glycosphingolipid research by using TLC blotting] Taki T. **Seikagaku** 1996 Jun;68(6):475–85 (21 ref.) **(Jpn)**

METABOLISM

Proteinaceous factor(s) in culture supernatant fluids of bifidobacteria which prevents the binding of enterotoxigenic Escherichia coli to gangliotetraosylceramide. Fujiwara S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):506–12

Fucosylation of complex glycosphingolipids by recombinant fucosyltransferase-VII. Stroud MR, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):165–8

Binding specificity of Lactobacillus to glycolipids. Yamamoto K, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):148–52

SPC3, a V3 loop-derived synthetic peptide inhibitor of HIV-1 infection, binds to cell surface glycosphingolipids. Delézay O, et al. **Biochemistry** 1996 Dec 10; 35(49):15663–71

Synthetic phospho-oligosaccharide fragments of lipophosphoglycan as acceptors for Leishmania major alpha-D-mannosylphosphate transferase. Brown GM, et al. **Eur J Biochem** 1996 Dec 1;242(2):410–6

Accumulation of sphingolipids in SAP-precursor (prosaposin)-deficient fibroblasts occurs as intralysosomal membrane structures and can be completely reversed by treatment with human SAP-precursor. Burkhardt JK, et al. **Eur J Cell Biol** 1997 May;73(1):10–8

Tamoxifen retards glycosphingolipid metabolism in human cancer cells. Cabot MC, et al. **FEBS Lett** 1996 Sep 30; 394(2):129–31

Accumulation of glycosphingolipids in human atherosclerotic plaque and unaffected aorta tissues. Chatterjee SB, et al. **Glycobiology** 1997 Feb;7(1):57–65

Molecular mimicry in the recognition of glycosphingolipids by Gal alpha 3 Gal beta 4 GlcNAc beta-binding Clostridium difficile toxin A, human natural anti alpha-galactosyl IgG and the monoclonal antibody Gal-13: characterization of a binding-active human glycosphingolipid, non-identical with the animal receptor. Teneberg S, et al. **Glycobiology** 1996 Sep;6(6):599–609

Microscale analysis of glycosphingolipids by TLC blotting/secondary ion mass spectrometry: a novel blood group A-active glycosphingolipid and changes in glycosphingolipid expression in rat mammary tumour cells with different metastatic potentials. Kasama T, et al. **Glycoconj J** 1996 Jun;13(3):461–9

Glycosphingolipid expression in human skeletal and heart muscle assessed by immunostaining thin-layer chromatography. Müthing J, et al. **Glycoconj J** 1997 Jan; 14(1):19–28

Glycosphingolipid-binding protein of Borrelia burgdorferi sensu lato. Kaneda K, et al. **Infect Immun** 1997 Aug; 65(8):3180–5

Binding of Helicobacter pylori to sialic acid-containing glycolipids of various origins separated on thin-layer chromatograms. Miller-Podraza H, et al. **Infect Immun** 1997 Jun;65(6):2480–2

The degradation of glycosphingolipids by air. Jennemann R, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):150–4

Developmental changes of neutral glycosphingolipids as receptors for pulmonary surfactant protein SP-A in the alveolar epithelium of murine lung. Momoeda K, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1189–95

Interaction of GM2 activator protein with glycosphingolipids. Hama Y, et al. **J Biol Chem** 1997 Jan 31;272(5):2828–33

Oligodendrocytes direct glycosyl phosphatidylinositol-anchored proteins to the myelin sheath in glycosphingolipid-rich complexes. Krämer EM, et al. **J Biol Chem** 1997 Apr 4;272(14):8937–45

Golgi GDP-mannose uptake requires Leishmania LPG2. A member of a eukaryotic family of putative nucleotide-sugar transporters. Ma D, et al. **J Biol Chem** 1997 Feb 7; 272(6):3799–805

Carbohydrate binding specificity of the neutrophil-activating protein of Helicobacter pylori. Teneberg S, et al. **J Biol Chem** 1997 Jul 25;272(30):19067–71

Localization of sulfatides in the epithelial lining of gastric mucosa: studies with a monoclonal antibody to sulfatides. Sugano K, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S98–103

Selectin-ligand interactions revealed by molecular dynamics simulation in solution. Tsujishita H, et al. **J Med Chem** 1997 Jan 31;40(3):362–9

Involvement of sphingolipids in the endothelin-1 signal transduction mechanism in rat brain. Catalán RE, et al. **Neurosci Lett** 1996 Dec 13;220(2):121–4

High concentration of the EBV latent membrane protein 1 in glycosphingolipid-rich complexes from both epithelial and lymphoid cells. Clausse B, et al. **Virology** 1997 Feb 17;228(2):285–93

Influenza viruses display high-affinity binding to human polyglycosylceramides represented on a solid-phase assay surface. Matrosovich M, et al. **Virology** 1996 Sep 15; 223(2):413–6

PHARMACOLOGY

Neutral glycosphingolipids induce cell-cell aggregation of a variety of hematopoietic cell lines. Yamaji T, et al. **Eur J Biochem** 1997 Jul 1;247(1):21–9

Transbilayer inhibition of protein kinase C by the lipophosphoglycan from Leishmania donovani. Giorgione JR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11634–9

Lipophosphoglycan from Leishmania suppresses agonist-induced interleukin 1 beta gene expression in human monocytes via a unique promoter sequence. Hatzigeorgiou DE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14708–13

PHYSIOLOGY

Sphingolipid-dependent protein kinases. Hakomori S. **Adv Pharmacol** 1996;36:155–71 (33 ref.)

Glycosphingolipids as potential diagnostic markers and/or antigens in neurological disorders. Fredman P, et al. **Neurochem Res** 1997 Aug;22(8):1071–83 (97 ref.)

SECRETION

Proteophosphoglycan secreted by Leishmania mexicana amastigotes causes vacuole formation in macrophages. Peters C, et al. **Infect Immun** 1997 Feb;65(2):783–6

THERAPEUTIC USE

Glycosphingolipid antigens and cancer therapy. Hakomori S, et al. **Chem Biol** 1997 Feb;4(2):97–104 (47 ref.)

GLYCOSURIA

Prevalence of abnormal glucose tolerance in Khon Kaen Province and validity of urine stick and fasting blood sugar as screening tools. Chaisiri K, et al. **J Med Assoc Thai** 1997 Jun;80(6):363–71

Relevance of postprandial glycosuria in survey for diabetes mellitus. Tosetti C, et al. **Minerva Med** 1996 Nov; 87(11):505–8

DIAGNOSIS

Comparison of blood or urine testing by patients with newly diagnosed non-insulin dependent diabetes: patient survey after randomised crossover trial. Miles P, et al. **BMJ** 1997 Aug 9;315(7104):348–9

Direct analysis of mannitol, lactulose and glucose in urine samples by high-performance anion-exchange chromatography with pulse amperometric detection. Clinical evaluation of intestinal permeability in human immunodeficiency virus infection. Bao Y, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):105–12

Glycosuric tests should not be employed in population screenings for NIDDM. Friderichsen B, et al. **J Public Health Med** 1997 Mar;19(1):55–60

Detecting GD and preeclampsia. Effectiveness of routine urine screening for glucose and protein. Hooper DE. **J Reprod Med** 1996 Dec;41(12):885–8

[Specific features of studies of glucose in biological fluids (review)] Ruvinova LG, et al. **Vopr Pitan** 1996;(4):6–10 (43 ref.) (Eng. Abstr.) **(Rus)**

GLYCOSURIA

ETIOLOGY

[Renal glucosuria] Fujinaka H, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):663–5 (13 ref.) **(Jpn)**

METABOLISM

Dietary myoinositol results in lower urine glucose and in lower postprandial plasma glucose in obese insulin resistant rhesus monkeys. Ortmeyer HK. **Obes Res** 1996 Nov; 4(6):569–75

PREVENTION & CONTROL

Detecting GD and preeclampsia. Effectiveness of routine urine screening for glucose and protein. Hooper DE. **J Reprod Med** 1996 Dec;41(12):885–8

URINE

Finding diabetics—a method of screening in general practice. Bullimore SP, et al. **Br J Gen Pract** 1997 Jun;47(419):371–4

Phosphaturia, glycosuria and aminoaciduria associated with idiopathic acquired sideroblastic anemia. Hanson B, et al. **Clin Nephrol** 1995 Dec;44(6):382–8

VETERINARY

Insulin resistance, hyperglycemia, glucosuria, and galactosuria in intensively milk-fed calves: dependency on age and effects of high lactose intake. Hugi D, et al. **J Anim Sci** 1997 Feb;75(2):469–82

GLYCOSURIA, RENAL

ETIOLOGY

Hyperoxaluria with hyperglycoluria not due to alanine:glyoxylate aminotransferase defect: a novel type of primary hyperoxaluria. Van Acker KJ, et al. **Kidney Int** 1996 Nov;50(5):1747–52

GENETICS

Hypercalciuria in renal glucosuria. Kavukçu S, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):72–4

GLYCOSYLATED HEMOGLOBIN A see **HEMOGLOBIN A, GLYCOSYLATED**

GLYCOSYLATION

see related
GLYCOSYLATION END PRODUCTS, ADVANCED
PROTEIN PROCESSING, POST-TRANSLATIONAL

Inherited disorders of glycoprotein synthesis: cell biological insights. McDowell G, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):145–57 (89 ref.)

[Aging of the vitreous body. Role of glycation and free radicals] Deguine V, et al. **Pathol Biol (Paris)** 1997 Apr; 45(4):321–30 (69 ref.) (Eng. Abstr.) **(Fre)**

[Non-enzymatic glycosylation in diabetes mellitus] Iglesias P, et al. **Med Clin (Barc)** 1997 Jan 11;108(1):23–33 (176 ref.) **(Spa)**

DRUG EFFECTS

Kinetics of translation and glycosylation of pituitary glycoproteins. Pérez GT, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):127–37

GLYCOSYLATION END PRODUCTS, ADVANCED

The 32nd annual meeting of the European Association for the Study of Diabetes. Neuropathy, health care, and glycation. Bloomgarden ZT. **Diabetes Care** 1997 Jun; 20(6):1037–9

Effect of glycated collagen on proliferation of human smooth muscle cells in vitro. Iino K, et al. **Diabetologia** 1996 Jul; 39(7):800–6

ADVERSE EFFECTS

Advanced glycation end products, oxidant stress and vascular lesions. Chappey O, et al. **Eur J Clin Invest** 1997 Feb; 27(2):97–108 (107 ref.)

Orally absorbed reactive glycation products (glycotoxins): an environmental risk factor in diabetic nephropathy. Koschinsky T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6474–9

ANALYSIS

The role of oxidative stress in the long-term glycation of LDL. Menzel EJ, et al. **Biofactors** 1997;6(2):111–24

The liver cell histones of diabetic patients contain glycation endproducts (AGEs) which may be lipofuscin components [letter] Jobst K, et al. **Clin Chim Acta** 1996 Dec 30; 256(2):203–4

Good glycaemic control reduces oxidation and glycation end-products in collagen of diabetic rats. Odetti P, et al. **Diabetologia** 1996 Dec;39(12):1440–7

The role of glycation cross-links in diabetic vascular stiffening. Sims TJ, et al. **Diabetologia** 1996 Aug; 39(8):946–51

Immunohistochemical detection of imidazolone, a novel advanced glycation end product, in kidneys and aortas of diabetic patients. Niwa T, et al. **J Clin Invest** 1997 Mar 15;99(6):1272–80

Immunohistochemical detection of advanced glycosylation end-products in the peritoneum and its possible pathophysiological role in CAPD. Nakayama M, et al. **Kidney Int** 1997 Jan;51(1):182–6

Histological localization of advanced glycosylation end products in the progression of diabetic nephropathy. Imai N, et al. **Nephron** 1997;76(2):153–60

Immunohistochemical study of advanced glycation end products in aging and Alzheimer's disease brain. Takedo A, et al. **Neurosci Lett** 1996 Dec 27;221(1):17–20

Advanced glycosylation end-products and heat shock proteins accumulate in the basophilic degeneration of the myocardium and the corpora amylacea of the glia. Iwaki T, et al. **Pathol Int** 1996 Oct;46(10):757–63

Advanced glycosylation end products in peritoneal tissue with different solutions. Dobbie JW. **Perit Dial Int** 1997; 17 Suppl 2:S27–30 (32 ref.)

ANTAGONISTS & INHIBITORS

Aminoguanidine prolongs survival in azotemic-induced diabetic rats. Friedman EA, et al. **Am J Kidney Dis** 1997 Aug;30(2):253–9

Influence of advanced glycation end-products and AGE-inhibitors on nucleation-dependent polymerization of beta-amyloid peptide. Münch G, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):17–29

Progression of nephropathy in spontaneous diabetic rats is prevented by OPB-9195, a novel inhibitor of advanced glycation. Nakamura S, et al. **Diabetes** 1997 May; 46(5):895–9

BIOSYNTHESIS

Thiamine corrects delayed replication and decreases production of lactate and advanced glycation end-products in bovine retinal and human umbilical vein endothelial cells cultured under high glucose conditions [see comments] La Selva M, et al. **Diabetologia** 1996 Nov;39(11):1263–8. Comment in: Diabetologia 1997 Jun;40(6):741–2.

Implication of an increased oxidative stress in the formation of advanced glycation end products in patients with end-stage renal failure. Miyata T, et al. **Kidney Int** 1997 Apr;51(4):1170–81

The relative UV sensitizer activity of purified advanced glycation endproducts. Ortwerth BJ, et al. **Photochem Photobiol** 1997 Apr;65(4):666–72

[Products of advanced glycosylation and the pathogenesis of accelerated atherosclerosis in diabetes] Basta G, et al. **G Ital Cardiol** 1996 Jun;26(6):699–719 (122 ref.) (Eng. Abstr.) **(Ita)**

BLOOD

Detection and quantitation of beta-2-microglobulin glycosylated end products in human serum by matrix-assisted laser desorption/ionization mass spectrometry. Tang X, et al. **Anal Chem** 1996 Nov 1; 68(21):3740–5

Novel analytical approach to monitoring advanced glycosylation end products in human serum with on-line spectrophotometric and spectrofluorometric detection in a flow system. Wróbel K, et al. **Clin Chem** 1997 Sep; 43(9):1563–9

Advanced glycosylated end-products (AGEs) in non-diabetic patients undergoing dialysis. Brunkhorst R, et al. **Clin Nephrol** 1996 Oct;46(4):265–6

The advanced glycation endproduct pentosidine and monocyte activation in uremia. Friedlander MA, et al. **Clin Nephrol** 1996 Jun;45(6):379–82

Role of albumin glycation on the erythrocyte aggregation: an in vitro study. Candiloros H, et al. **Diabet Med** 1996 Jul;13(7):646–50

Increased serum levels of advanced glycation end products (AGEs) in children and adolescents with IDDM. Berg TJ, et al. **Diabetes Care** 1997 Jun;20(6):1006–8

Effects of aminoguanidine on serum advanced glycation endproducts, urinary albilmin excretion, mesangial expansion, and glomerular basement membrane thickening in Otsuka Long-Evans Tokushima fatty rats. Yamauchi A, et al. **Diabetes Res Clin Pract** 1997 Jan;34(3):127–33

Carboxymethylethanolamine, a biomarker of phospholipid modification during the maillard reaction in vivo. Requena JR, et al. **J Biol Chem** 1997 Jul 11;272(28):17473–9

Depletion of reactive advanced glycation endproducts from diabetic uremic sera using a lysozyme-linked matrix. Mitsuhashi T, et al. **J Clin Invest** 1997 Aug 15;100(4):847–54

Clearance of pentosidine, an advanced glycation end product, by different modalities of renal replacement therapy. Miyata T, et al. **Kidney Int** 1997 Mar;51(3):880–7

Amyloid beta 2-microglobulin is modified with imidazolone, a novel advanced glycation end product, in dialysis-related amyloidosis. Niwa T, et al. **Kidney Int** 1997 Jan; 51(1):187–94

Advanced glycation end products in serum predict changes in the kidney morphology of patients with insulin-dependent diabetes mellitus. Berg TJ, et al. **Metabolism** 1997 Jun;46(6):661–5

CHEMICAL SYNTHESIS

Acid-stable fluorescent advanced glycation end products: vesperlysines A, B, and C are formed as crosslinked products in the Maillard reaction between lysine or proteins with glucose. Nakamura K, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):227–30

Role of protein-bound carbonyl groups in the formation of advanced glycation endproducts. Liggins J, et al. **Biochim Biophys Acta** 1997 Aug 22;1361(2):123–30

CHEMISTRY

Sites of glycation of beta B2-crystallin by glucose and fructose. Zhao HR, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):128–33

Role of protein-bound carbonyl groups in the formation of advanced glycation endproducts. Liggins J, et al. **Biochim Biophys Acta** 1997 Aug 22;1361(2):123–30

Synthesis and secretion of macrophage colony stimulating factor by mature human monocytes and human monocytic THP-1 cells induced by human serum albumin derivatives modified with methylglyoxal and glucose-derived advanced glycation endproducts. Abordo EA, et al. **Immunol Lett** 1996 Oct;53(1):7–13

Glycation products in aged thioglycollate medium enhance the elicitation of peritoneal macrophages. Li YM, et al. **J Immunol Methods** 1997 Feb 28;201(2):183–8

Structure of advanced Maillard reaction products and their pathological role. Monnier VM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:20–6 (30 ref.)

DIAGNOSTIC USE

Glycation index of hair for non-invasive estimation of diabetic control. Kobayashi K, et al. **Biol Pharm Bull** 1996 Apr;19(4):487–90

GENETICS

Glycation-dependent, reactive oxygen species-mediated suppression of the insulin gene promoter activity in HIT cells. Matsuoka T, et al. **J Clin Invest** 1997 Jan 1; 99(1):144–50

Vascular hypertrophy in experimental diabetes. Role of advanced glycation end products. Rumble JR, et al. **J Clin Invest** 1997 Mar 1;99(5):1016–27

IMMUNOLOGY

Determination of anti-AGE antibodies in human serum. Baydanoff S, et al. **Glycoconj J** 1996 Jun;13(3):335–9

Amyloid beta 2-microglobulin is modified with N epsilon-(carboxymethyl)lysine in dialysis-related amyloidosis. Niwa T, et al. **Kidney Int** 1996 Oct; 50(4):1303–9

Immunohistochemical study with anti-advanced glycation end-products antibody in murine amyloidosis. Hoshii Y, et al. **Pathol Int** 1996 Oct;46(10):738–42

Corpora amylacea in the lung, prostate and uterus. A a comparative and immunohistochemical study. Röcken C, et al. **Pathol Res Pract** 1996 Oct;192(10):998–1006

ISOLATION & PURIFICATION

Advanced glycation end product (AGE): characterization of the products from the reaction between D-glucose and serum albumin. Wu JT, et al. **J Clin Lab Anal** 1996; 10(1):21–34

METABOLISM

Temporal association between lens protein glycation and cataract development in diabetic rats. Turk Z, et al. **Acta Diabetol** 1997 Mar;34(1):49–54

Advanced glycation end products (AGEs) co-localize with AGE receptors in the retinal vasculature of diabetic and of AGE-infused rats. Stitt AW, et al. **Am J Pathol** 1997 Feb;150(2):523–31

Atherogenesis and advanced glycation: promotion, progression, and prevention. Stitt AW, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:115–27; discussion 127–9 (56 ref.)

Changes in biomechanical properties, composition of collagen and elastin, and advanced glycation endproducts of the rat aorta in relation to age. Brüel A, et al. **Atherosclerosis** 1996 Dec 20;127(2):155–65

Rapid formation of advanced glycation end products by intermediate metabolites of glycolytic pathway and polyol pathway. Hamada Y, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):539–43

Immunohistochemical localization of advanced glycation end products, pentosidine, and carboxymethyllysine in lipofuscin pigments of Alzheimer's disease and aged neurons. Horie K, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):327–32

Type II alveolar epithelial cells in lung express receptor for advanced glycation end products (RAGE) gene. Katsuoka F, et al. **Biochem Biophys Res Commun** 1997 Sep 18; 238(2):512–6

Generation of active oxygen species from advanced glycation end-products (AGE) under ultraviolet light A (UVA) irradiation. Masaki H, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):306–10

Advanced glycation endproducts in ageing and Alzheimer's disease. Münch G, et al. **Brain Res Brain Res Rev** 1997

Feb;23(1-2):134-43 (78 ref.)
Differential messenger RNA and protein expression of the receptor for advanced glycosylated end products in normal lung and non-small cell lung carcinoma. Schraml P, et al. **Cancer Res** 1997 Sep 1;57(17):3669-71
Recent progress in advanced glycation end products and diabetic complications. Vlassara H. **Diabetes** 1997 Sep;46 Suppl 2:S19-25
The relationship between accumulation of advanced glycation end products and expression of vascular endothelial growth factor in human diabetic retinas. Murata T, et al. **Diabetologia** 1997 Jul;40(7):764-9
The role of glycation cross-links in diabetic vascular stiffening. Sims TJ, et al. **Diabetologia** 1996 Aug; 39(8):946-51
Advanced glycation end products and their receptors co-localise in rat organs susceptible to diabetic microvascular injury. Soulis T, et al. **Diabetologia** 1997 Jun; 40(6):619-28
What's the RAGE? The receptor for advanced glycation end products (RAGE) and the dark side of glucose. Yan SD, et al. **Eur J Clin Invest** 1997 Mar;27(3):179-81 (20 ref.)
Role of glycation in human lens protein structure change. Ramalho JS, et al. **Eur J Ophthalmol** 1996 Apr-Jun; 6(2):155-61
Cellular contraction of collagen lattices is inhibited by nonenzymatic glycation. Howard EW, et al. **Exp Cell Res** 1996 Oct 10;228(1):132-7
Localization of advanced glycation end products of Maillard reaction in bovine tissues and their endocytosis by macrophage scavenger receptors. Mori T, et al. **Exp Mol Pathol** 1995 Oct;63(2):135-52
Early and advanced non-enzymatic glycation products in the pathogenesis of diabetic kidney disease [editorial]. Ziyadeh FN, et al. **Exp Nephrol** 1997 Jan-Feb;5(1):2-9 (107 ref.)
Lipid and lipoprotein modification by advanced glycosylation end-products: role in atherosclerosis. Bucala R. **Exp Physiol** 1997 Mar;82(2):327-37 (38 ref.)
Imidazolone, a novel advanced glycation end product, is present at high levels in kidneys of rats with streptozotocin-induced diabetes. Niwa T, et al. **FEBS Lett** 1997 May 5;407(3):297-302
Glucose modification of human serum albumin: a structural study. Coussons PJ, et al. **Free Radic Biol Med** 1997; 22(7):1217-27
In vitro kinetic studies of formation of antigenic advanced glycation end products (AGEs). Novel inhibition of post-Amadori glycation pathways. Booth AA, et al. **J Biol Chem** 1997 Feb 28;272(9):5430-7
Activation of the receptor for advanced glycation end products triggers a p21(ras)-dependent mitogen-activated protein kinase pathway regulated by oxidant stress. Lander HM, et al. **J Biol Chem** 1997 Jul 11;272(28):17810-4
Advanced glycation end products-driven angiogenesis in vitro. Induction of the growth and tube formation of human microvascular endothelial cells through autocrine vascular endothelial growth factor. Yamagishi Si, et al. **J Biol Chem** 1997 Mar 28;272(13):8723-30
Glycation-dependent, reactive oxygen species-mediated suppression of the insulin gene promoter activity in HIT cells. Matsuoka T, et al. **J Clin Invest** 1997 Jan 1; 99(1):144-50
The receptor for advanced glycation end products (RAGE) is a central mediator of the interaction of AGE-beta2microglobulin with human mononuclear phagocytes via an oxidant-sensitive pathway. Implications for the pathogenesis of dialysis-related amyloidosis. Miyata T, et al. **J Clin Invest** 1996 Sep 1;98(5):1088-94
Vascular hypertrophy in experimental diabetes. Role of advanced glycation end products. Rumble JR, et al. **J Clin Invest** 1997 Mar 1;99(5):1016-27
Accumulation of advanced glycation endproducts in the rat nephron: link with circulating AGEs during aging. Verbeke P, et al. **J Histochem Cytochem** 1997 Aug;45(8):1059-68
Effect of alpha-tocopherol on LDL oxidation and glycation: in vitro and in vivo studies. Li D, et al. **J Lipid Res** 1996 Sep;37(9):1978-86
Advanced glycation endproducts (AGEs) induce oxidant stress in the gingiva: a potential mechanism underlying accelerated periodontal disease associated with diabetes. Schmidt AM, et al. **J Periodontal Res** 1996 Oct; 31(7):508-15
Interaction between beta 2-microglobulin and advanced glycation end products in the development of dialysis related-amyloidosis. Hou FF, et al. **Kidney Int** 1997 May; 51(5):1514-9
Monocyte/macrophage response to beta 2-microglobulin modified with advanced glycation end products. Miyata T, et al. **Kidney Int** 1996 Feb;49(2):538-50
Pathobiology of the heart in experimental diabetes: immunolocalization of lipoproteins, immunoglobulin G, and advanced glycation endproducts proteins in diabetic and/or hyperlipidemic hamster. Sima A, et al. **Lab Invest** 1997 Jul;77(1):3-18
Pinning the suspect to the crime in Alzheimer's [news] Finkel E. **Lancet** 1996 Nov 30;348(9040):1506
Ageing promotes the increase of early glycation Amadori product as assessed by epsilon-N-(2-furoylmethyl)-L-lysine (furosine) levels in rodent skin collagen. The relationship to dietary restriction and glycoxidation. Sell DR. **Mech Ageing Dev** 1997 Apr; 95(1-2):81-99
Formation of advanced glycation end (AGE) products in diabetes: prevention by pyruvate and alpha-keto glutarate. Varma SD, et al. **Mol Cell Biochem** 1997 Jun;171(1-2):23-8
Nonenzymatic glycation of peripheral and central nervous system proteins in experimental diabetes mellitus. Ryle C, et al. **Muscle Nerve** 1997 May;20(5):577-84
Diabetes: Breaking the curse of the AGEs [news; comment] Drickamer K. **Nature** 1996 Jul 18;382(6588):211-2. Comment on: Nature 1996 Jul 18;382(6588):275-8.
An agent cleaving glucose-derived protein crosslinks in vitro and in vivo [see comments] Vasan S, et al. **Nature** 1996 Jul 18;382(6588):275-8. Comment in: Nature 1996 Jul 18;382(6588):211-2.
Expression of receptors for advanced glycation end-products in occlusive vascular and renal disease. Bierhaus A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:87-90 (32 ref.)
Site-specific modification of apolipoprotein B by advanced glycosylation end-products: implications for lipoprotein clearance and atherogenesis. Bucala R. **Nephrol Dial Transplant** 1996;11 Suppl 5:17-9 (20 ref.)
The role of the Maillard reaction in other pathologies: Alzheimer's disease. Colaco CA, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:7-12 (51 ref.)
Role of polyol pathway in nonenzymatic glycation. Hamada Y, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:95-8
The receptor for advanced glycation end-products has a central role in mediating the effects of advanced glycation end-products on the development of vascular disease in diabetes mellitus. Hori O, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:13-6 (26 ref.)
Extra- and intracellular localization of advanced glycation end-products in human atherosclerotic lesions. Horiuchi S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:81-6 (36 ref.)
Interactions between the sorbitol pathway, non-enzymatic glycation, and diabetic vascular dysfunction. Ido Y, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:72-5
Advanced glycation end-products in the peritoneal fluid and in the peritoneal membrane of continuous ambulant peritoneal dialysis patients. Mahiout A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:2-6
Roles of advanced glycation end-products in the progression of diabetic nephropathy. Makino H, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:76-80 (41 ref.)
The role of advanced glycosylation end-products in the pathogenesis of atherosclerosis. Makita Z, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:31-3 (14 ref.)
Possible involvement of advanced glycation end-products in bone resorption. Miyata T, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:54-7 (21 ref.)
New aspects in the pathogenesis of dialysis-related amyloidosis: role of beta 2-microglobulin modified with advanced glycation end products in bone and joint destruction. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 2:140-3 (17 ref.)
Oxidation conspires with glycation to generate noxious advanced glycation end products in renal failure. Miyata T, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):255-8
Advanced glycation of beta 2-microglobulin in the pathogenesis of bone lesions in dialysis-associated amyloidosis. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 3:86-90 (37 ref.)
Structure of advanced Maillard reaction products and their pathological role. Monnier VM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:20-6 (30 ref.)
Localization of glycated proteins in the glomeruli of patients with diabetic nephropathy. Sakai H, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:66-71
Pathogenesis of diabetic nephropathy: a radical approach. Salahudeen AK, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):664-8 (51 ref.)
Advanced glycation end-products in diabetic nephropathy. Sugiyama S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:91-4 (25 ref.)
New biomarkers of Maillard reaction damage to proteins. Wells-Knecht KJ, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:41-7 (53 ref.)
Beta2-Microglobulin dialysis amyloid and its formation: role of 3-deoxyglucosone and advanced glycation end products [editorial] Niwa T. **Nephron** 1997;76(4):373-91 (238 ref.)
Serum levels of 3-deoxyglucosone and tissue contents of advanced glycation end products are increased in streptozotocin-induced diabetic rats with nephropathy. Niwa T, et al. **Nephron** 1996;74(3):580-5
Glycation and microglial reaction in lesions of Alzheimer's disease. Dickson DW, et al. **Neurobiol Aging** 1996 Sep-Oct; 17(5):733-43
Advanced glycation modification of Rosenthal fibers in patients with Alexander disease. Castellani RJ, et al. **Neurosci Lett** 1997 Aug 8;231(2):79-82
Identification of advanced glycation end products of the Maillard reaction in Pick's disease. Kimura T, et al. **Neurosci Lett** 1996 Nov 22;219(2):95-8
Enhanced binding of advanced glycation endproducts (AGE) by the ApoE4 isoform links the mechanism of plaque deposition in Alzheimer's disease. Li YM, et al. **Neurosci Lett** 1997 May 2;226(3):155-8
Early contribution of oxidative glycation in Alzheimer disease [letter; comment] Smith MA, et al. **Neurosci Lett** 1996 Oct 18;217(2-3):210-1. Comment on: Neurosci Lett 1996 Apr 12;208(1):53-6.
Glycation and advanced glycation end-product formation with icodextrin and dextrose [see comments] Dawnay AB, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):52-8. Comment in: Perit Dial Int 1997 Jan-Feb;17(1):9-10.
Amyloid-beta peptide-receptor for advanced glycation endproduct interaction elicits neuronal expression of macrophage-colony stimulating factor: a proinflammatory pathway in Alzheimer disease. Du Yan S, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5296-301
Molecular identity and cellular distribution of advanced glycation endproduct receptors: relationship of p60 to OST-48 and p90 to 80K-H membrane proteins. Li YM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11047-52
[Accumulation of AGE (advanced glycosylation end-products) in the aging process, in diabetes mellitus and in chronic renal failure] Wisotzky J, et al. **Med Klin** 1996 Jul 15;91(7):454-7 (45 ref.) **(Ger)**

PHARMACOKINETICS

Advanced glycation end products are eliminated by scavenger-receptor-mediated endocytosis in hepatic sinusoidal Kupffer and endothelial cells. Smedsrød B, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):567-73
Orally absorbed reactive glycation products (glycotoxins): an environmental risk factor in diabetic nephropathy. Koschinsky T, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6474-9

PHARMACOLOGY

Advanced glycation end products (AGEs) co-localize with AGE receptors in the retinal vasculature of diabetic and of AGE-infused rats. Stitt AW, et al. **Am J Pathol** 1997 Feb;150(2):523-31
Advanced glycation end products induce expression of vascular endothelial growth factor by retinal Muller cells. Hirata C, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):712-5
Advanced glycation end products induce specific glycoprotein alterations in retinal microvascular cells. Rellier N, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):281-5
Influence of advanced glycation end-products and AGE-inhibitors on nucleation-dependent polymerization of beta-amyloid peptide. Münch G, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):17-29
Advanced glycation end product-induced activation of NF-kappaB is suppressed by alpha-lipoic acid in cultured endothelial cells. Bierhaus A, et al. **Diabetes** 1997 Sep; 46(9):1481-90
The receptor for advanced glycation end products mediates the chemotaxis of rabbit smooth muscle cells. Higashi T, et al. **Diabetes** 1997 Mar;46(3):463-72
Induction of synthesis and secretion of interleukin 1 beta in the human monocytic THP-1 cells by human serum albumins modified with methylglyoxal and advanced glycation endproducts. Westwood ME, et al. **Immunol Lett** 1996 Apr;50(1-2):17-21
Advanced glycation end products enhance osteoclast-induced bone resorption in cultured mouse unfractionated bone cells and in rats implanted subcutaneously with devitalized bone particles. Miyata T, et al. **J Am Soc Nephrol** 1997 Feb;8(2):260-70
Photo-enhanced modification of human skin elastin in actinic elastosis by N(epsilon)-(carboxymethyl)lysine, one of the glycoxidation products of the Maillard reaction. Mizutari K, et al. **J Invest Dermatol** 1997 May;108(5):797-802
Nonenzymatically glycated albumin (Amadori adducts) enhances nitric oxide synthase activity and gene expression in endothelial cells. Amore A, et al. **Kidney Int** 1997 Jan; 51(1):27-35
Advanced glycation end products modulate transcriptional regulation in mesangial cells. Iehara N, et al. **Kidney Int** 1996 Oct;50(4):1166-72
Inhibitory effect of albumin-derived advanced glycosylation products on PMA-induced superoxide anion production by rat macrophages. Ramírez R, et al. **Life Sci** 1997; 60(25):2279-89
Effects of advanced glycation end-products on the proliferation and differentiation of osteoblast-like cells. McCarthy AD, et al. **Mol Cell Biochem** 1997 May; 170(1-2):43-51
Beta-microglobulin modified with advanced glycation end-products induces monocyte chemotaxis in vivo [letter] Cai Z, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):1189-91
Administration of AGEs in vivo induces extracellular matrix gene expression. Striker LJ, et al. **Nephrol Dial Transplant** 1996;11 Suppl 5:62-5

PHYSIOLOGY

Advanced glycosylation in nephropathy of diabetes and aging. Vlassara H. **Adv Nephrol Necker Hosp** 1996; 25:303-15 (58 ref.)
Advanced glycation end-products and atherosclerosis. Vlassara H. **Ann Med** 1996 Oct;28(5):419-26 (60 ref.)
Growth modulation of retinal microvascular cells by early and advanced glycation products. Ruggiero-Lopez D, et al. **Diabetes Res Clin Pract** 1997 Jan;34(3):135-42
Long-term effects of aminoguanidine on insulin release and biosynthesis: evidence that the formation of advanced glycosylation end products inhibits B cell function. Tajiri

Y, et al. **Endocrinology** 1997 Jan;138(1):273–80

Advanced glycation endproducts stimulate the MAP-kinase pathway in tubulus cell line LLC-PK1. Simm A, et al. **FEBS Lett** 1997 Jun 30;410(2–3):481–4

Advanced glycation end products enhance osteoclast-induced bone resorption in cultured mouse unfractionated bone cells and in rats implanted subcutaneously with devitalized bone particles. Miyata T, et al. **J Am Soc Nephrol** 1997 Feb;8(2):260–70

Advanced glycation endproducts stimulate interleukin-6 production by human bone-derived cells. Takagi M, et al. **J Bone Miner Res** 1997 Mar;12(3):439–46

Modification of vitronectin by advanced glycation alters functional properties in vitro and in the diabetic retina. Hammes HP, et al. **Lab Invest** 1996 Sep;75(3):325–38

Advanced glycation end products and beta2-microglobulin. The story unfolds [editorial] Miyata T. **Nephrol Dial Transplant** 1996 Jun;11(6):934–6 (14 ref.)

Pathophysiology of advanced glycation end-products in renal failure. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 5:27–30 (23 ref.)

Age-related increase in an advanced glycation end product in penile tissue. Jiaan DB, et al. **World J Urol** 1995; 13(6):369–75

[How can diabetic retinopathy be therapeutically modified? Advanced glycosylation end products (AGEs) and hyperglycemic memory] Hammes HP. **Fortschr Med** 1997 Mar 10;115(7):53–4 **(Ger)**

[New hypothesis on etiopathogenesis of Alzheimer syndrome. Advanced glycation end products (AGEs)] Thome J, et al. **Nervenarzt** 1996 Nov;67(11):924–9 (36 ref.) (Eng. Abstr.) **(Ger)**

TOXICITY

Toxic action of advanced glycation end products on cultured retinal capillary pericytes and endothelial cells: relevance to diabetic retinopathy. Chibber R, et al. **Diabetologia** 1997 Feb;40(2):156–64

GLYCOSYLCERAMIDASE

BIOSYNTHESIS

Prenatal ethanol exposure alters the expression of intestinal hydrolase mRNAs in newborn rats. Estrada G, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1662–8

Lactase phlorizin hydrolase synthesis is decreased in protein-malnourished pigs. Dudley MA, et al. **J Nutr** 1997 May;127(5):687–93

CHEMISTRY

The 1.8 A resolution structure of hevamine, a plant chitinase/lysozyme, and analysis of the conserved sequence and structure motifs of glycosyl hydrolase family 18. Terwisscha van Scheltinga AC, et al. **J Mol Biol** 1996 Sep 20;262(2):243–57

GENETICS

Regulation of lactase-phlorizin hydrolase gene expression by the caudal-related homoeodomain protein Cdx-2. Troelsen JT, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):833–8

Regulation of sucrase and lactase in developing rats: role of nuclear factors that bind to two gene regulatory elements. Hecht A, et al. **Gastroenterology** 1997 Mar; 112(3):803–12

Rat lactase-phlorizin hydrolase/human growth hormone transgene is expressed on small intestinal villi in transgenic mice. Krasinski SD, et al. **Gastroenterology** 1997 Sep; 113(3):844–55

METABOLISM

Regulation of sucrase and lactase in Caco-2 cells: relationship to nuclear factors SIF-1 and NF-LPH-1. Olsen WA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G707–13

Proteolytic processing of human lactase-phlorizin hydrolase is a two-step event: identification of the cleavage sites. Wüthrich M, et al. **Arch Biochem Biophys** 1996 Dec 1; 336(1):27–34

Lactase phlorhizin hydrolase turnover in vivo in water-fed and colostrum-fed newborn pigs. Dudley MA, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):735–43

Synthesis of amphiphilic lactosides that possess a lactosylceramide-mimicking N-acyl structure: alternative universal substrates for endo-type glycosylceramidases. Miura Y, et al. **Carbohydr Res** 1996 Aug 19;289:193–9

The apical sorting of lactase-phlorizin hydrolase implicates sorting sequences found in the mature domain. Jacob R, et al. **Eur J Cell Biol** 1997 Jan;72(1):54–60

Dimerization of lactase-phlorizin hydrolase occurs in the endoplasmic reticulum, involves the putative membrane spanning domain and is required for an efficient transport of the enzyme to the cell surface. Naim HY, et al. **Eur J Cell Biol** 1996 Jul;70(3):198–208

Human lactase-phlorizin hydrolase expressed in COS-1 cells is proteolytically processed by the lysosomal pathway. Wüthrich M, et al. **FEBS Lett** 1997 Apr 1;405(3):321–7

GLYCOSYLPHOSPHATIDYLINOSITOL ANCHORS see **GLYCOSYLPHOSPHATIDYLINOSITOLS**

GLYCOSYLPHOSPHATIDYLINOSITOLS

Electrical manipulation of glycan-phosphatidyl inositol-tethered proteins in planar supported bilayers [see comments] Groves JT, et al. **Biophys J** 1996 Nov; 71(5):2716–23. Comment in: Biophys J 1996 Nov;71(5):2243–4.

Restrictive glycosylphosphatidylinositol anchor synthesis in cwh6/gpi3 yeast cells causes aberrant biogenesis of cell wall proteins. Vossen JH, et al. **J Bacteriol** 1997 Apr; 179(7):2202–9

Glycosylphosphatidylinositol anchors represent the major carbohydrate modification in proteins of intraerythrocytic stage Plasmodium falciparum. Gowda DC, et al. **J Biol Chem** 1997 Mar 7;272(10):6428–39

Inner but not outer membrane leaflets control the transition from glycosylphosphatidylinositol-anchored influenza hemagglutinin-induced hemifusion to full fusion. Melikyan GB, et al. **J Cell Biol** 1997 Mar 10;136(5):995–1005

The GPI-anchored adhesion molecule F3 induces tyrosine phosphorylation: involvement of the FNIII repeats. Cervello M, et al. **J Cell Sci** 1996 Mar;109 (Pt 3):699–704

[Differentiation of hematopoietic stem cell and expression of GPI-anchor protein in paroxysmal nocturnal hemoglobinuria] Kanamaru A, et al. **Nippon Naika Gakkai Zasshi** 1996 Jul 10;85(7):1160–4 (12 ref.) **(Jpn)**

[Molecular biology of the GPI-anchored proteins] Ikezawa H. **Nippon Saikingaku Zasshi** 1997 Apr;52(2):435–59 (150 ref.) **(Jpn)**

ANALYSIS

Identification of membrane dipeptidase as a major glycosyl-phosphatidylinositol-anchored protein of the pancreatic zymogen granule membrane, and evidence for its release by phospholipase A. Hooper NM, et al. **Biochem J** 1997 May 15;324 (Pt 1):151–7

An apparent association between glycosylphosphatidylinositol-anchored proteins and a sphingolipid in Tetrahymena mimbres. Zhang X, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):197–206

Distinct interactions among GPI-anchored, transmembrane and membrane associated intracellular proteins, and sphingolipids in lymphocyte and endothelial cell plasma membranes. Ilangumaran S, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):227–36

Detection of glycosyl-phosphatidylinositol-anchored proteins on the surface of Nicotiana tabacum protoplasts. Takos AM, et al. **FEBS Lett** 1997 Mar 17;405(1):1–4

Molecular species analysis and quantification of the glycosylphosphatidylinositol intermediate glycolipid C from Trypanosoma brucei. Güther ML, et al. **Mol Biochem Parasitol** 1996 May;77(2):137–45

Characterization and tissue distribution of opioid-binding cell adhesion molecule (OBCAM) using monoclonal antibodies. Hachisuka A, et al. **Neurochem Int** 1996 Apr;28(4):373–9

BIOSYNTHESIS

Ether lipid metabolism, GPI anchor biosynthesis, and signal transduction are putative targets for anti-leishmanial alkyl phospholipid analogues. Lux H, et al. **Adv Exp Med Biol** 1996;416:201–11

Early steps in glycosylphosphatidylinositol biosynthesis in Leishmania major. Smith TK, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):393–400

Lipid metabolism in Trypanosoma brucei: utilization of myristate and myristoyllysophosphatidylcholine for myristoylation of glycosyl phosphatidylinositols. Werbovetz KA, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):575–81

Gpi1, a Saccharomyces cerevisiae protein that participates in the first step in glycosylphosphatidylinositol anchor synthesis. Leidich SD, et al. **J Biol Chem** 1996 Nov 1; 271(44):27829–37

PIG-A and PIG-H, which participate in glycosylphosphatidylinositol anchor biosynthesis, form a protein complex in the endoplasmic reticulum. Watanabe R, et al. **J Biol Chem** 1996 Oct 25;271(43):26868–75

Effect of neomycin on glycosyl-phosphatidylinositol and phosphatidylinositol system of Tetrahymena. Kovács P, et al. **Microbios** 1996;85(342):7–18

Effects of the amino sugars, glucosamine, mannosamine, or the fluorinated derivative 2-deoxy-fluoroglucose on the phosphatidyl inositol and glycosyl phosphatidyl inositol systems of Tetrahymena. Kovács P, et al. **Microbios** 1997; 89(359):91–104

Analysis of the expression of glycosylphosphatidylinositol anchored proteins on platelets from patients with paroxysmal nocturnal hemoglobinuria. Maciejewski JP, et al. **Thromb Res** 1996 Sep 15;83(6):433–47

BLOOD

Expression of glycosyl-phosphatidylinositol-linked glycoproteins in blood cells from paroxysmal nocturnal haemoglobinuria patients: a flow cytometry study using CD55, CD58 and CD59 monoclonal antibodies. Navenot JM, et al. **Leuk Lymphoma** 1996 Mar;21(1-2):143–51

CHEMICAL SYNTHESIS

Synthesis of octyl O- and S-glycosides related to the GPI anchor of Trypanosoma brucei and their in vitro galactosylation by trypanosomal alpha-galactosyltransferases. Ziegler T, et al. **Carbohydr Res** 1996 Dec 13;295:7–23

CHEMISTRY

Identification of chiro-inositol and its formation by isomerization of myo-inositol during hydrolysis of glycosylphosphatidylinositol-anchored proteins. Taguchi R, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):161–8

The core glycosylphosphatidylinositol anchor structures of Trypanosoma brucei variant surface glycoprotein 221. Mehlert A, et al. **Biochem Soc Trans** 1997 Feb;25(1):13S

Variant GPI structure in relation to membrane-associated functions of a murine folate receptor. Wang X, et al. **Biochemistry** 1996 Dec 17;35(50):16305–12

The presence of GPI-linked protein(s) in an archaeobacterium, Sulfolobus acidocaldarius, closely related to eukaryotes. Kobayashi T, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):1–4

The major ciliary membrane proteins in Paramecium primaurelia are all glycosylphosphatidylinositol-anchored proteins. Capdeville Y, et al. **Eur J Cell Biol** 1996 Aug; 70(4):339–46

Leishmania adleri, a lizard parasite, expresses structurally similar glycoinositolphospholipids to mammalian Leishmania. Previato JO, et al. **Glycobiology** 1997 Jul; 7(5):687–95

Structural variation in the glycoinositolphospholipids of different strains of Trypanosoma cruzi. Carreira JC, et al. **Glycoconj J** 1996 Dec;13(6):955–66

Proteins with glycosylphosphatidylinositol (GPI) signal sequences have divergent fates during a GPI deficiency. GPIs are essential for nuclear division in Trypanosoma cruzi. Garg N, et al. **J Biol Chem** 1997 May 9; 272(19):12482–91

The phosphatidyl-myo-inositol anchor of the lipoarabinomannans from Mycobacterium bovis bacillus Calmette Guérin. Heterogeneity, structure, and role in the regulation of cytokine secretion. Nigou J, et al. **J Biol Chem** 1997 Sep 12;272(37):23094–103

Characterization of two distinct populations of detergent resistant membrane complexes isolated from chick brain tissues. Henke RC, et al. **J Neurosci Res** 1996 Sep 1; 45(5):617–30

Ectodomain interactions of leukocyte integrins and pro-inflammatory GPI-linked membrane proteins. Petty HR, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1405–16 (94 ref.)

Structural analysis of the glycosyl-phosphatidylinositol membrane anchor of the merozoite surface proteins-1 and -2 of Plasmodium falciparum. Gerold P, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):131–43

DEFICIENCY

Impaired hematopoiesis in paroxysmal nocturnal hemoglobinuria/aplastic anemia is not associated with a selective proliferative defect in the glycosylphosphatidylinositol-anchored protein-deficient clone. Maciejewski JP, et al. **Blood** 1997 Feb 15; 89(4):1173–81

Glycosylphosphatidyl-inositol (GPI)-linked protein deficiency on the platelets of patients with aplastic anaemia and paroxysmal nocturnal haemoglobinuria: two distinct patterns correlating with expression on neutrophils. Jin JY, et al. **Br J Haematol** 1997 Mar;96(3):493–6

GENETICS

The genes encoding the eph-related receptor tyrosine kinase ligands LERK-1 (EPLG1, Epl1), LERK-3 (EPLG3, Epl3), and LERK-4 (EPLG4, Epl4) are clustered on human chromosome 1 and mouse chromosome 3. Cerretti DP, et al. **Genomics** 1996 Apr 15;33(2):277–82

Somatic mutation in paroxysmal nocturnal hemoglobinuria. Luzzatto L. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):125–31, 135–6, 139–40 (7 ref.)

The baboon erythrocyte complement receptor is a glycophosphatidylinositol-linked protein encoded by a homologue of the human CR1-like genetic element. Birmingham DJ, et al. **J Immunol** 1996 Sep 15; 157(6):2586–92

Regulation by low temperatures and anaerobiosis of a yeast gene specifying a putative GPI-anchored plasma membrane protein [corrected] [published erratum appears in Mol Microbiol 1996 Jul;21(2):431] Donzeau M, et al. **Mol Microbiol** 1996 Apr;20(2):449–59

A knock-out model of paroxysmal nocturnal hemoglobinuria: Pig-a(-) hematopoiesis is reconstituted following intercellular transfer of GPI-anchored proteins. Dunn DE, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7938–43

Tissue-specific knockout of the mouse Pig-a gene reveals important roles for GPI-anchored proteins in skin development. Tarutani M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7400–5

[Paroxysmal nocturnal hemoglobinuria] Wada H, et al. **Nippon Rinsho** 1996 Sep;54(9):2507–12 (21 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Characterization of the ETSA-21 antigen, a glycosylphosphatidyl-inositol anchor glycoprotein identified in breast cancer cells using monoclonal antibody B21. Annibali NV, et al. **Hybridoma** 1997 Apr;16(2):139-45

Unprimed T cells are inefficiently stimulated by glycosylphosphatidylinositol-linked H-2Kb because of its lipid anchor rather than defects in CD8 binding. Zamoyska R, et al. **Int Immunol** 1996 Apr;8(4):551-7

Glycosylphosphatidylinositol-anchored mucin-like glycoproteins isolated from Trypanosoma cruzi trypomastigotes initiate the synthesis of proinflammatory cytokines by macrophages. Camargo MM, et al. **J Immunol** 1997 Jun 15;158(12):5890-901

Molecular structure of the "low molecular weight antigen" of Toxoplasma gondii: a glucose alpha 1-4 N-acetylgalactosamine makes free glycosyl-phosphatidylinositols highly immunogenic. Striepen B, et al. **J Mol Biol** 1997 Mar 7;266(4):797-813

ISOLATION & PURIFICATION

Glycoinositolphospholipids purified from Trypanosoma cruzi stimulate Ig production in vitro. Bento CA, et al. **J Immunol** 1996 Dec 1;157(11):4996-5001

METABOLISM

CD24, a glycosylphosphatidylinositol-anchored molecules is transiently expressed during the development of human central nervous system and is a marker of human neural cell lineage tumors. Poncet C, et al. **Acta Neuropathol (Berl)** 1996;91(4):400-8

Cell surface dynamics of GPI-anchored proteins. Maxfield FR, et al. **Adv Exp Med Biol** 1997;419:355-64 (58 ref.)

Signal transduction via GPI-anchored membrane proteins. Robinson PJ. **Adv Exp Med Biol** 1997;419:365-70 (22 ref.)

A newly identified glycosylphosphatidylinositol-anchored arginine-specific ADP-ribosyltransferase in chicken spleen. Tsuchiya M, et al. **Adv Exp Med Biol** 1997; 419:245-8

Regulation of cytotoxic T cell functions by a GPI-anchored ecto-ADP-ribosyltransferase. Wang J, et al. **Adv Exp Med Biol** 1997;419:191-201

Polarized GP2 secretion in MDCK cells via GPI targeting and apical membrane-restricted proteolysis. Fritz BA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):G176-83

Evaluation by dot-immunoassay of the differential distribution of cell surface and intracellular proteins in glycosylphosphatidylinositol-rich plasma membrane domains. Ilangumaran S, et al. **Anal Biochem** 1996 Mar 1;235(1):49-56

Modulation of the cleavage of glycosylphosphatidylinositol-anchored proteins by specific bacterial phospholipases. Sharom FJ, et al. **Biochem Cell Biol** 1996;74(5):701-13

Insulin stimulates the release of the glycosyl phosphatidylinositol-anchored membrane dipeptidase from 3T3-L1 adipocytes through the action of a phospholipase C. Movahedi S, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):531-7

Expression of a variant surface glycoprotein of Trypanosoma gambiense in procyclic forms of Trypanosoma brucei shows that the cell type dictates the nature of the glycosylphosphatidylinositol membrane anchor attached to the glycoprotein. Paturiaux-Hanocq F, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):885-95

Accumulation of glucosaminyl(acyl)phosphatidylinositol in an S3 HeLa subline expressing normal dolicholphosphomannose synthase activity. Sevlever D, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):837-44

Quality control of glycosylphosphatidylinositol anchor attachment in mammalian cells: a biochemical study. Wainwright LJ, et al. **Biochem J** 1997 Feb 1;321 (Pt 3):655-64

Role of the glycosyl-phosphatidylinositol anchor in membrane protein sorting in Madin-Darby canine kidney cells. Cailler F, et al. **Biochem Soc Trans** 1996 May; 24(2):186S

The addition of a glycosyl-phosphatidylinositol-anchor to a soluble form of neutral endopeptidase re-establishes its apical targeting in LLC-PK1 cells. Howell S, et al. **Biochem Soc Trans** 1996 May;24(2):185S

Mutational analysis of the C-terminal signal peptide of bovine liver 5'-nucleotidase for GPI anchoring: a study on the significance of the hydrophilic spacer region. Furukawa Y, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):185-96

Uptake and intracellular stability of glycosylphosphatidylinositol-specific phospholipase D in neuroblastoma cells. Hari T, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):293-302

Expression of intracellular and GPI-anchored forms of GPI-specific phospholipase D in COS-1 cells. Küng M, et al. **Biochim Biophys Acta** 1997 Jul 24;1357(3):329-38

HDL3 binds to glycosylphosphatidylinositol-anchored proteins to activate signalling pathways. Nazih-Sanderson F, et al. **Biochim Biophys Acta** 1997 Aug 21;1358(1):103-12

HDL3-signalling in HepG2 cells involves glycosyl-phosphatidylinositol-anchored proteins. Nazih-Sanderson F, et al. **Biochim Biophys Acta** 1997 May 17;1346(1):45-60

Bleomycin hydrolase (Blh1p), a multi-sited thiol protease in search of a distinct physiological role. Niemer I, et al. **Curr Genet** 1997 Jul;32(1):41-51

Proteins spontaneously released by rat insulinoma (RIN) cells are anchored on cell membrane by a glycosyl-phosphatidyl-inositol link and inhibit increased RIN cell adhesion of lymphocytes from type 1 diabetic patients and non-obese diabetic mice in vitro. Gouin E, et al. **Diabetes Metab** 1996 Dec;22(6):439-50

Expression of bloodstream variant surface glycoproteins in procyclic stage Trypanosoma brucei: role of GPI anchors in secretion. Bangs JD, et al. **EMBO J** 1997 Jul 16; 16(14):4285-94

Yeast Gpi8p is essential for GPI anchor attachment onto proteins. Benghezal M, et al. **EMBO J** 1996 Dec 2; 15(23):6575-83

Lipid remodeling leads to the introduction and exchange of defined ceramides on GPI proteins in the ER and Golgi of Saccharomyces cerevisiae. Reggiori F, et al. **EMBO J** 1997 Jun;16(12):3506-18

Alternative lipid remodelling pathways for glycosylphosphatidylinositol membrane anchors in Saccharomyces cerevisiae. Sipos G, et al. **EMBO J** 1997 Jun;16(12):3494-505

PIG-B, a membrane protein of the endoplasmic reticulum with a large lumenal domain, is involved in transferring the third mannose of the GPI anchor. Takahashi M, et al. **EMBO J** 1996 Aug 15;15(16):4254-61

Interaction of GPI-anchored cell surface proteins and complement receptor type 3. Stockinger H. **Exp Clin Immunogenet** 1997;14(1):5-10 (23 ref.)

Addition of G418 and other aminoglycoside antibiotics to mammalian cells results in the release of GPI-anchored proteins. Küng M, et al. **FEBS Lett** 1997 Jun 16; 409(3):333-8

The beta-1, 6-glucan containing side-chain of cell wall proteins of Saccharomyces cerevisiae is bound to the glycan core of the GPI moiety. Van Der Vaart JM, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):401-7

Is there evidence for phospho-oligosaccharides as insulin mediators? Field MC. **Glycobiology** 1997 Mar;7(2):161-8 (65 ref.)

Vanin-1, a novel GPI-linked perivascular molecule involved in thymus homing. Aurrand-Lions M, et al. **Immunity** 1996 Nov;5(5):391-405

Suppressor gene analysis reveals an essential role for sphingolipids in transport of glycosylphosphatidylinositol-anchored proteins in Saccharomyces cerevisiae. Skrzypek M, et al. **J Bacteriol** 1997 Mar;179(5):1513-20

An assay for glycosylphosphatidylinositol-anchor degrading phospholipases. Stambuk BU, et al. **J Biochem Biophys Methods** 1996 Nov 15;33(2):105-15

Lectin-like characteristics of recombinant human interleukin-1beta recognizing glycans of the glycosylphosphatidylinositol anchor. Fukushima K, et al. **J Biol Chem** 1997 Apr 18;272(16):10579-84

An 18-kDa domain of a glycosylphosphatidylinositol-linked NAD:arginine ADP-ribosyltransferase possesses NAD glycohydrolase activity. Kim HJ, et al. **J Biol Chem** 1997 Apr 4;272(14):8918-23

Oligodendrocytes direct glycosyl phosphatidylinositol-anchored proteins to the myelin sheath in glycosphingolipid-rich complexes. Krämer EM, et al. **J Biol Chem** 1997 Apr 4;272(14):8937-45

Expression cloning of PIG-L, a candidate N-acetylglucosaminyl-phosphatidylinositol deacetylase. Nakamura N, et al. **J Biol Chem** 1997 Jun 20; 272(25):15834-40

The glycosylphosphatidylinositol-anchored surface glycoprotein Thy-1 is a receptor for the channel-forming toxin aerolysin. Nelson KL, et al. **J Biol Chem** 1997 May 2;272(18):12170-4

A novel glycosylphosphatidylinositol-anchored form of ceruloplasmin is expressed by mammalian astrocytes. Patel BN, et al. **J Biol Chem** 1997 Aug 8;272(32):20185-90

Fumonisin B1-induced sphingolipid depletion inhibits vitamin uptake via the glycosylphosphatidylinositol-anchored folate receptor. Stevens VL, et al. **J Biol Chem** 1997 Jul 18;272(29):18020-5

Cell surface expression of a functional rubella virus E1 glycoprotein by addition of a GPI anchor. Bernasconi E, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1195-201

A family of glycoproteins (GP55), which inhibit neurite outgrowth, are members of the Ig superfamily and are related to OBCAM, neurotrimin, LAMP and CEPU-1. Wilson DJ, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):3129-38

Clustering of GPI-anchored folate receptor independent of both cross-linking and association with caveolin. Wu M, et al. **J Membr Biol** 1997 Sep 15;159(2):137-47

Insulin promotes the hydrolysis of a glycosyl phosphatidylinositol in cultured rat astroglial cells. Ruiz-Albusac JM, et al. **J Neurochem** 1997 Jan;68(1):10-9

Effects of local anaesthetics and phenothiazines on 32P-incorporation into the inositol phospholipids and glycosyl phosphatidylinositol of Tetrahymena pyriformis GL. Kovács P, et al. **Microbios** 1996;87(352):149-59

Ceramide 1-phosphate is released from a glycoinositolphosphoceramide of Trypanosoma cruzi by rat blood plasma. de Lederkremer RM, et al. **Mol Biochem Parasitol** 1996 Aug;79(2):219-23

Glycosyl phosphatidylinositol myristoylation in African trypanosomes. Werbovetz KA, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):1-7 (34 ref.)

Axonal molecules of the immunoglobulin superfamily bearing a GPI anchor: their role in controlling neurite outgrowth. Faivre-Sarrailh C, et al. **Mol Cell Neurosci** 1997; 9(2):109-15 (51 ref.)

Neurturin responsiveness requires a GPI-linked receptor and the Ret receptor tyrosine kinase. Buj-Bello A, et al. **Nature** 1997 Jun 12;387(6634):721-4

A GPI-linked protein that interacts with Ret to form a candidate neurturin receptor. Klein RD, et al. **Nature** 1997 Jun 12;387(6634):717-21

Isolation of a novel GPI-anchored gene specifically regulated by p53; correlation between its expression and anti-cancer drug sensitivity. Furuhata T, et al. **Oncogene** 1996 Nov 7;13(9):1965-70

Novel substrate analogs delineate an endocytotic mechanism for uptake of folate via the high-affinity, glycosylphosphatidylinositol-linked transport protein in L1210 mouse leukemia cells. Fan J, et al. **Oncol Res** 1995; 7(10-11):511-6

A knock-out model of paroxysmal nocturnal hemoglobinuria: Pig-a(-) hematopoiesis is reconstituted following intercellular transfer of GPI-anchored proteins. Dunn DE, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7938-43

Apical sorting of hepatitis B surface antigen (HBsAg) is independent of N-glycosylation and glycosylphosphatidylinositol-anchored protein segregation. Marzolo MP, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1834-9

COOH-terminal processing of nascent polypeptides by the glycosylphosphatidylinositol transamidase in the presence of hydrazine is governed by the same parameters as glycosylphosphatidylinositol addition. Ramalingam S, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7528-33

PHARMACOLOGY

Phosphoinositolglycan-peptides from yeast potently induce metabolic insulin actions in isolated rat adipocytes, cardiomyocytes, and diaphragms. Müller G, et al. **Endocrinology** 1997 Aug;138(8):3459-75

Glycoinositolphospholipids purified from Trypanosoma cruzi stimulate Ig production in vitro. Bento CA, et al. **J Immunol** 1996 Dec 1;157(11):4996-5001

Signal transduction in macrophages by glycosylphosphatidylinositols of Plasmodium, Trypanosoma, and Leishmania: activation of protein tyrosine kinases and protein kinase C by inositolglycan and diacylglycerol moieties. Tachado SD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4022-7

PHYSIOLOGY

Regulation of host cell function by glycosylphosphatidylinositols of the parasitic protozoa. Schofield L, et al. **Immunol Cell Biol** 1996 Dec;74(6):555-63 (103 ref.)

Organized endothelial cell surface signal transduction in caveolae distinct from glycosylphosphatidylinositol-anchored protein microdomains. Liu J, et al. **J Biol Chem** 1997 Mar 14; 272(11):7211-22

Signal transduction via glycosyl phosphatidylinositol-anchored proteins in T cells is inhibited by lowering cellular cholesterol. Stulnig TM, et al. **J Biol Chem** 1997 Aug 1;272(31):19242-7

Hematopoiesis and the defect in paroxysmal nocturnal hemoglobinuria [editorial (comment)] Rosse WF. **J Clin Invest** 1997 Sep 1;100(5):953-4. Comment on: J Clin Invest 1997 Sep 1;100(5):1028-36.

Murine embryonic stem cells without pig-a gene activity are competent for hematopoiesis with the PNH phenotype but not for clonal expansion [see comments] Rosti V, et al. **J Clin Invest** 1997 Sep 1;100(5):1028-36. Comment in: J Clin Invest 1997 Sep 1;100(5):953-4.

Phosphatidylinositol-based glycolipid-anchored proteins enhance proximal TCR signaling events. Romagnoli P, et al. **J Immunol** 1997 Jun 15;158(12):5757-64

Cell-surface GPI expression in Protozoa. The connection with the PI system. Kovács P. **Prog Mol Subcell Biol** 1996; 17:105-18 (53 ref.)

The essential Schizosaccharomyces pombe gpi1+ gene complements a bakers' yeast GPI anchoring mutant and is required for efficient cell separation. Colussi PA, et al. **Yeast** 1997 Feb;13(2):139-50

[Glycosylphosphatidylinositol-anchored proteins with complement-regulatory activity on erythrocytes] Kawaguchi T, et al. **Nippon Rinsho** 1996 Sep;54(9):2370-5 (22 ref.) (Eng. Abstr.) **(Jpn)**

GLYCOSYLTRANSFERASES

ANALYSIS

Outer membrane localization of murein hydrolases: MltA, a third lipoprotein lytic transglycosylase in Escherichia coli. Lommatzsch J, et al. **J Bacteriol** 1997 Sep; 179(17):5465-70

A putative monofunctional glycosyltransferase is expressed in Ralstonia eutropha. Paik J, et al. **J Bacteriol** 1997 Jun; 179(12):4061-5

ANTAGONISTS & INHIBITORS

Presence of glycosyltransferase inhibitors in the sera of

GLYCOSYLTRANSFERASES

patients with long-term surviving ABO incompatible (A2 to O) kidney grafts. Rydberg L, et al. **Transfus Med** 1991 Sep;1(3):177–82

BIOSYNTHESIS

Auxin regulation and spatial localization of an endo-1,4-beta-D-glucanase and a xyloglucan endotransglycosylase in expanding tomato hypocotyls. Catalá C, et al. **Plant J** 1997 Aug;12(2):417–26

A flooding-induced xyloglucan endo-transglycosylase homolog in maize is responsive to ethylene and associated with aerenchyma. Saab IN, et al. **Plant Physiol** 1996 Sep; 112(1):385–91

CHEMISTRY

Characterization of glucosyltransferase of human saliva adsorbed onto hydroxyapatite surfaces. Vacca-Smith AM, et al. **Caries Res** 1996;30(5):354–60

[Glycoconjugates on the basis of polyacrylamide--tools for studying lectins, antibodies, and glycosyltransferases in glycobiology, cytochemistry, and histochemistry] Bovin NV. **Bioorg Khim** 1996 Sep;22(9):643–63 (81 ref.) (Eng. Abstr.) **(Rus)**

CLASSIFICATION

A classification of nucleotide-diphospho-sugar glycosyltransferases based on amino acid sequence similarities [letter] Campbell JA, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):929–39

GENETICS

Cloning and characterization of the Neisseria meningitidis rfaC gene encoding alpha-1,5 heptosyltransferase I. Stojiljkovic I, et al. **FEMS Microbiol Lett** 1997 Jun 1; 151(1):41–9

Saccharomyces cerevisiae HOC1, a suppressor of pkc1, encodes a putative glycosyltransferase. Neiman AM, et al. **Genetics** 1997 Mar;145(3):637–45

Molecular and phenotypic analysis of the S. cerevisiae MNN10 gene identifies a family of related glycosyltransferases. Dean N, et al. **Glycobiology** 1996 Jan; 6(1):73–81

Expression cloning of glycosyltransferases. Fukuda M, et al. **Glycobiology** 1996 Oct;6(7):683–9 (80 ref.)

Identification of the ADP-L-glycero-D-manno-heptose-6-epimerase (rfaD) and heptosyltransferase II (rfaF) biosynthesis genes from nontypeable Haemophilus influenzae 2019. Nichols WA, et al. **Infect Immun** 1997 Apr;65(4):1377–86

Isolation and characterization of two genes, waaC (rfaC) and waaF (rfaF), involved in Pseudomonas aeruginosa serotype O5 inner-core biosynthesis. de Kievit TR, et al. **J Bacteriol** 1997 Jun;179(11):3451–7

A novel resistance mechanism against beta-lactams in Streptococcus pneumoniae involves CpoA, a putative glycosyltransferase. Grebe T, et al. **J Bacteriol** 1997 May; 179(10):3342–9

Conservation of the lipooligosaccharide synthesis locus lgt among strains of Neisseria gonorrhoeae: requirement for lgtE in synthesis of the 2C7 epitope and of the beta chain of strain 15253. Erwin AL, et al. **J Exp Med** 1996 Oct 1;184(4):1233–41

A simplified amplification procedure for two regions of the glycosyl transferase (ABO blood group) gene. Herrin G Jr. **J Forensic Sci** 1996 Jan;41(1):138–41

Cloning and molecular analysis of the Isi1 (rfaF) gene of Neisseria meningitidis which encodes a heptosyl-2-transferase involved in LPS biosynthesis: evaluation of surface exposed carbohydrates in LPS mediated toxicity for human endothelial cells. Jennings MP, et al. **Microb Pathog** 1995 Dec;19(6):391–407

Expression of the exoY gene, required for exopolysaccharide synthesis in Agrobacterium, is activated by the regulatory ros gene. Tiburtius A, et al. **Microbiology** 1996 Sep;142 (Pt 9):2621–9

ISOLATION & PURIFICATION

CHO cells provide access to novel N-glycans and developmentally regulated glycosyltransferases. Stanley P, et al. **Glycobiology** 1996 Oct;6(7):695–9 (70 ref.)

Biosynthesis of chondroitin sulfate. Purification of glucuronosyl transferase II and use of photoaffinity labeling for characterization of the enzyme as an 80-kDa protein. Sugumaran G, et al. **J Biol Chem** 1997 May 30; 272(22):14399–403

METABOLISM

Glycobiotechnology: enzymes for the synthesis of nucleotide sugars. Elling L. **Adv Biochem Eng Biotechnol** 1997; 58:89–144 (363 ref.)

An in vivo approach for the identification of acceptor sites for O-glycosyltransferases: motifs for the addition of O-GlcNAc in Dictyostelium discoideum. Jung E, et al. **Biochemistry** 1997 Apr 1;36(13):4034–40

Synthesis of Hex p-(1-->4)-beta-D-Glc pNAc-(1-->2)-alpha-D-Man p-(1-->O)(CH2)7CH3 probes for exploration of the substrate specificity of glycosyltransferases: Part I, Hex = beta-D-Gal, 4-deoxy-beta-D-Gal, 4-O-methyl-beta-D-Gal, 4-deoxy-4-fluoro-beta-D-Gal, or beta-D-Glc. van Dorst JA, et al. **Carbohydr Res** 1996 Sep 23;291:63–83

Synthesis of Hexp-(1-->4)-beta-D-GlcpNAc-(1-->2)-alpha-D-Manp-(1-->O) (CH2)7 CH3 probes for exploration of the substrate specificity of glycosyltransferases: Part II, Hex = 3-O-methyl-beta-D-Gal, 3-deoxy-beta-D-Gal, 3-deoxy-3-fluoro-beta-D-Gal, 3-amino-3-deoxy-beta-D-Gal, beta-D-Gul, alpha-L-Alt, or beta-L-Gal. van Dorst JA, et al. **Carbohydr Res** 1997 Jan 17;297(3):209–27

Deletion of the heptosyltransferase genes rfaC and rfaF in Escherichia coli K-12 results in an Re-type lipopolysaccharide with a high degree of 2-aminoethanol phosphate substitution. Brabetz W, et al. **Eur J Biochem** 1997 Jul 15;247(2):716–24

Golgi localization of glycosyltransferases: more questions than answers. Colley KJ. **Glycobiology** 1997 Feb;7(1):1–13 (92 ref.)

O-GlcNAcylation of key nuclear and cytoskeletal proteins: reciprocity with O-phosphorylation and putative roles in protein multimerization. Hart GW, et al. **Glycobiology** 1996 Oct;6(7):711–6 (120 ref.)

An approach for fluorometric determination of glycosyltransferase activities. Palmerini CA, et al. **Glycoconj J** 1996 Aug;13(4):631–6

Norethindrone stimulates in vivo glycosyltransferases in the rat liver. Valette A, et al. **Horm Metab Res** 1996 Jan; 28(1):37–8

Assessing the requirements for nucleotide excision repair proteins of Saccharomyces cerevisiae in an in vitro system. He Z, et al. **J Biol Chem** 1996 Nov 8;271(45):28243–9

Biosynthesis of the escherichia coli K4 capsule polysaccharide. A parallel system for studies of glycosyltransferases in chondroitin formation. Lidholt K, et al. **J Biol Chem** 1997 Jan 31;272(5):2682–7

Glycosyltransferase activities in cultured endothelial cells of bovine brain microvascular origin. Kanda T, et al. **Neurochem Res** 1997 Apr;22(4):463–6

Large clostridial cytotoxins--a family of glycosyltransferases modifying small GTP-binding proteins. von Eichel-Streiber C, et al. **Trends Microbiol** 1996 Oct; 4(10):375–82 (55 ref.)

PHYSIOLOGY

Secreted fringe-like signaling molecules may be glycosyltransferases [letter] Yuan YP, et al. **Cell** 1997 Jan 10;88(1):9–11

Pleiotropic effects of a mutation in rfaC on Escherichia coli hemolysin. Bauer ME, et al. **Infect Immun** 1997 Jun; 65(6):2218–24

The role of endoxyloglucan transferase in the organization of plant cell walls. Nishitani K. **Int Rev Cytol** 1997; 173:157–206 (180 ref.)

Functional analysis of glycosyltransferases encoded by the capsular polysaccharide biosynthesis locus of Streptococcus pneumoniae serotype 14. Kolkman MA, et al. **J Biol Chem** 1997 Aug 1;272(31):19502–8

Activities of glycolipid glycosyltransferases and sialidases during the early development of Xenopus laevis. Gornati R, et al. **Mol Cell Biochem** 1997 Jan;166(1-2):117–24

GLYCYL T RNA SYNTHETASE

CHEMISTRY

Recognition of tRNA(Gly) by three widely diverged glycyl-tRNA synthetases. Nameki N, et al. **J Mol Biol** 1997 May 9;268(3):640–7

ISOLATION & PURIFICATION

An example of non-conservation of oligomeric structure in prokaryotic aminoacyl-tRNA synthetases. Biochemical and structural properties of glycyl-tRNA synthetase from Thermus thermophilus. Mazauric MH, et al. **Eur J Biochem** 1996 Nov 1;241(3):814–26

METABOLISM

Glycyl-tRNA synthetase. Freist W, et al. **Biol Chem Hoppe Seyler** 1996 Jun;377(6):343–56 (121 ref.)

GLYCYLGLYCINE

CHEMICAL SYNTHESIS

The effect of smectite composition on the catalysis of peptide bond formation. Bujdák J, et al. **J Mol Evol** 1996 Oct; 43(4):326–33

CHEMISTRY

On the usefulness of glycylglycine in hemodialysis and peritoneal dialysis solutions. Yatzidis H, et al. **ASAIO J** 1996 Nov-Dec;42(6):984–92

Interaction of the vanadyl (IV) cation with carnosine and related ligands. Ferrer EG, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):79–87

Conformational flexibility in enkephalins: solvent dependent transitions in peptides with Gly-Gly segments detected by circular dichroism. Sudha TS, et al. **FEBS Lett** 1981 Nov 2;134(1):32–6

METABOLISM

Glycylcyclines bind to the high-affinity tetracycline ribosomal binding site and evade Tet(M)- and Tet(O)-mediated ribosomal protection. Bergeron J, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2226–8

GLYCYRRHETIC ACID see **GLYCYRRHETINIC ACID**

GLYCYRRHETINIC ACID

ADVERSE EFFECTS

[Hypertension caused by licorice consumption (published erratum appears in Ned Tijdschr Geneeskd 1997 Jan 18;141(3):176)] Seelen MA, et al. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2632–5 (Eng. Abstr.) **(Dut)**

ANALOGS & DERIVATIVES

Effects of Glycyrrhizae and Glycyrrhizic acid on radiation injury in mice. Lin IH, et al. **Am J Chin Med** 1996; 24(3-4):279–88

Enhancement of nitric oxide production from activated macrophages by glycyrrhizin. Yi H, et al. **Am J Chin Med** 1996;24(3-4):271–8

Glycyrrhizin, an active component of licorice roots, reduces morbidity and mortality of mice infected with lethal doses of influenza virus. Utsunomiya T, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):551–6

Therapeutic basis of glycyrrhizin on chronic hepatitis B. Sato H, et al. **Antiviral Res** 1996 May;30(2-3):171–7

Identification of glycyrrhizin as a thrombin inhibitor [published erratum appears in Biochem Biophys Res Commun 1997 Aug 8;237(1):203] Francischetti IM, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):259–63

Identification of glycyrrhizin-binding protein kinase as casein kinase II and characterization of its associated phosphate acceptors in mouse liver. Harada S, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):102–9

Localization of enzymes involved in metabolism of glycyrrhizin in contents of rat gastrointestinal tract. Akao T. **Biol Pharm Bull** 1997 Feb;20(2):122–6

Antifibrotic effects of a polysaccharide extracted from Ganoderma lucidum, glycyrrhizin, and pentoxifylline in rats with cirrhosis induced by biliary obstruction. Park EJ, et al. **Biol Pharm Bull** 1997 Apr;20(4):417–20

Pharmacokinetics of glycyrrhizin in rats with D-galactosamine-induced hepatic disease. Wang Z, et al. **Biol Pharm Bull** 1996 Jun;19(6):901–4

Synthesis of glycyrrhizin analogues containing fluorinated beta(1-->2)-linked disaccharides. Morishima N, et al. **Bioorg Med Chem** 1996 Nov;4(11):1799–808

Therapeutic effects of glycyrrhizin in mice infected with LP-BM5 murine retrovirus and mechanisms involved in the prevention of disease progression. Watanbe H, et al. **Biotherapy** 1996;9(4):209–20

In vitro induction of anti-type 2 T cells by glycyrrhizin. Nakajima N, et al. **Burns** 1996 Dec;22(8):612–7

The long term efficacy of glycyrrhizin in chronic hepatitis C patients. Arase Y, et al. **Cancer** 1997 Apr 15; 79(8):1494–500

In vitro antiviral activity of indigenous glycyrrhizin, licorice and glycyrrhizic acid (Sigma) on Japanese encephalitis virus. Badam L. **J Commun Dis** 1997 Jun;29(2):91–9

Further studies on the mechanism of the mineralocorticoid action of licorice in humans. Armanini D, et al. **J Endocrinol Invest** 1996 Oct;19(9):624–9

Effect of licorice roots on carrageenan-induced decrease in immune complexes clearance in mice. Matsumoto T, et al. **J Ethnopharmacol** 1996 Jul 26;53(1):1–4

Effectiveness of glycyrrhizin for oral lichen planus in patients with chronic HCV infection. Da Nagao Y, et al. **J Gastroenterol** 1996 Oct;31(5):691–5

Effects of glycyrrhizin on immune-mediated cytotoxicity. Yoshikawa M, et al. **J Gastroenterol Hepatol** 1997 Mar; 12(3):243–8

Bioavailability study of glycyrrhetic acid after oral administration of glycyrrhizin in rats; relevance to the intestinal bacterial hydrolysis. Takeda S, et al. **J Pharm Pharmacol** 1996 Sep;48(9):902–5

Effects of absorption enhancers on the transport of model compounds in Caco-2 cell monolayers: assessment by confocal laser scanning microscopy. Sakai M, et al. **J Pharm Sci** 1997 Jul;86(7):779–85

Ammonium salt of glycyrrhizic acid as an antiviral [letter] Badam L. **Natl Med J India** 1997 Mar-Apr;10(2):98

Biliary excretion of glycyrrhizin in rats: kinetic basis for multiplicity in bile canalicular transport of organic anions. Shimamura H, et al. **Pharm Res** 1996 Dec;13(12):1833–7

Anti-inflammatory and anti-nociceptive activity of disodium glycyrrhetinic acid hemiphthalate. Khaksa G, et al. **Planta Med** 1996 Aug;62(4):326–8

Effect of Glycyrrhiza glabra roots and glycyrrhizin on the glucuronidation in rats. Moon A, et al. **Planta Med** 1997 Apr;63(2):115–9

Increased sodium appetite and thirst in rat induced by the ingredients of liquorice, glycyrrhizic acid and glycyrrhetinic acid. Cooney AS, et al. **Regul Pept** 1996 Oct 8;66(1-2):127–33

[The toxicological characteristics of ammonium glycyrrhizinate (glycyram). A study of its acute and subacute toxicity] Antov G, et al. **Eksp Klin Farmakol** 1997

Mar-Apr;60(2):65-7 (Eng. Abstr.) **(Rus)**
[The hypolipidemic and antiatherosclerotic properties of the ammonium salt of glycyrrhetic acid and of 18-dehydroglycyrrhetic acid] Zakirov UB, et al. **Eksp Klin Farmakol** 1996 Sep-Oct;59(5):53-5 (Eng. Abstr.) **(Rus)**

ANALYSIS

[Extraction technology of effervescent granules for arresting cold pain optimized by orthogonal tests] Sun X, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Mar;21(3):159-61, 190 (Eng. Abstr.) **(Chi)**

ANTAGONISTS & INHIBITORS

Inhibitory effect of glycyrrhetinic acid derivatives on capsaicin-induced ear edema in mice. Inoue H, et al. **Jpn J Pharmacol** 1996 Aug;71(4):281-9

BLOOD

Determination of 18 beta-glycyrrhetinic acid in human serum using the fully automated ALCA-system. Heilmann P, et al. **Eur J Clin Chem Clin Biochem** 1997 Jul;35(7):539-43
Direct determination of serum glycyrrhetic acid by a monoclonal antibody-based inhibition ELISA using ibuprofen for releasing serum albumin-bound glycyrrhetic acid. Itoh K, et al. **J Immunoassay** 1996 Nov;17(4):343-52

PHARMACOLOGY

Kidney 11 beta-HSD2 is inhibited by glycyrrhetinic acid-like factors in human urine. Lo YH, et al. **Hypertension** 1997 Jan;29(1 Pt 2):500-5
Inhibition of human complement by beta-glycyrrhetinic acid. Kroes BH, et al. **Immunology** 1997 Jan;90(1):115-20
The effects of 18 alpha,beta-glycyrrhetinic acid on the hormonal induction of tyrosine aminotransferase in rat primary cultured hepatocytes. Nose M, et al. **Planta Med** 1996 Oct;62(5):410-2
Increased sodium appetite and thirst in rat induced by the ingredients of liquorice, glycyrrhizic acid and glycyrrhetinic acid. Cooney AS, et al. **Regul Pept** 1996 Oct 8;66(1-2):127-33
11 beta-hydroxysteroid dehydrogenases of the choriocarcinoma cell line JEG-3 and their inhibition by glycyrrhetinic acid and other natural substances. Gomez-Sanchez EP, et al. **Steroids** 1996 Mar;61(3):110-5
[Mechanisms of hemostimulating effect of glyciram] Zhdanov VV, et al. **Biull Eksp Biol Med** 1997 May;123(5):555-9 **(Rus)**

POISONING

[Pseudohyperaldosteronism secondary to licorice poisoning associated with hemorrhagic gastritis] Cataldo F, et al. **Pediatr Med Chir** 1997 May-Jun;19(3):219-21 (10 ref.) (Eng. Abstr.) **(Ita)**

TOXICITY

[The toxicological characteristics of ammonium glycyrrhizinate (glycyram). A study of its acute and subacute toxicity] Antov G, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):65-7 (Eng. Abstr.) **(Rus)**

GLYCYRRHIZA

Hypokalaemia and hypertension associated with use of liquorice flavoured chewing gum. de Klerk GJ, et al. **BMJ** 1997 Mar 8;314(7082):731-2
Further studies on the mechanism of the mineralocorticoid action of licorice in humans. Armanini D, et al. **J Endocrinol Invest** 1996 Oct;19(9):624-9
[Licorice. A basis for precautions one more time!] Folkersen L, et al. **Ugeskr Laeger** 1996 Dec 16;158(51):7420-1 (Eng. Abstr.) **(Dan)**
[Why is strong licorice not healthy for children] Olsen P, et al. **Ugeskr Laeger** 1996 Dec 9;158(50):7262-3 **(Dan)**
[Hypertension caused by licorice consumption (published erratum appears in Ned Tijdschr Geneeskd 1997 Jan 18;141(3):176)] Seelen MA, et al. **Ned Tijdschr Geneeskd** 1996 Dec 28;140(52):2632-5 (Eng. Abstr.) **(Dut)**
[Pseudohyperaldosteronism secondary to licorice poisoning associated with hemorrhagic gastritis] Cataldo F, et al. **Pediatr Med Chir** 1997 May-Jun;19(3):219-21 (10 ref.) (Eng. Abstr.) **(Ita)**

CHEMISTRY

Licorice extract and its major polyphenol glabridin protect low-density lipoprotein against lipid peroxidation: in vitro and ex vivo studies in humans and in atherosclerotic apolipoprotein E-deficient mice. Fuhrman B, et al. **Am J Clin Nutr** 1997 Aug;66(2):267-75
Application of a licorice root specific protein to a general method for the assay of licorice root components in traditional Chinese medicines. Kitagawa T, et al. **Biol Pharm Bull** 1997 Jun;20(6):589-95
A general enzyme immunoassay for the licorice root component contained in traditional Chinese medicines. Kitagawa T, et al. **Biol Pharm Bull** 1997 Mar;20(3):211-6
Antioxidant coustituents from licorice roots: isolation, structure elucidation and antioxidative capacity toward LDL oxidation. Vaya J, et al. **Free Radic Biol Med** 1997; 23(2):302-13
Increased sodium appetite and thirst in rat induced by the ingredients of liquorice, glycyrrhizic acid and glycyrrhetinic acid. Cooney AS, et al. **Regul Pept** 1996 Oct 8;66(1-2):127-33
[The choleretic effects of licorice: identification and determination of the pharmacologically active components of Glycyrrhiza glabra] Raggi MA, et al. **Boll Chim Farm** 1995 Dec;134(11):634-8 (Eng. Abstr.) **(Ita)**

PHYSIOLOGY

In vitro antiviral activity of indigenous glycyrrhizin, licorice and glycyrrhizic acid (Sigma) on Japanese encephalitis virus. Badam L. **J Commun Dis** 1997 Jun;29(2):91-9

GLYDIAZINAMIDE see **GLIPIZIDE**

GLYOXAL

PHARMACOLOGY

Effect of cross-linking agents on the dynamic mechanical properties of hydrogel blends of poly(acrylic acid)-poly(vinyl alcohol-vinyl acetate). Cauich-Rodriguez JV, et al. **Biomaterials** 1996 Dec;17(23):2259-64
Types of mutations induced by glyoxal, a major oxidative DNA-damage product, in Salmonella typhimurium. Murata-Kamiya N, et al. **Mutat Res** 1997 Jun 9;377(1):13-6
Glyoxal, a major product of DNA oxidation, induces mutations at G:C sites on a shuttle vector plasmid replicated in mammalian cells. Murata-Kamiya N, et al. **Nucleic Acids Res** 1997 May 15;25(10):1897-902

THERAPEUTIC USE

Experimental gluing of the bronchial stump after pneumonectomy in rats. Wertzel H, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):88-91
Experimental gluing of lung parenchyma in rats. Wertzel H, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):83-7

TOXICITY

Mutational specificity of glyoxal, a product of DNA oxidation, in the lacI gene of wild-type Escherichia coli W3110. Murata-Kamiya N, et al. **Mutat Res** 1997 Jul 3; 377(2):255-62

GLYOXALASE I see **LACTOYL GLUTATHIONE LYASE**

GLYOXALINYLACRYLIC ACID see **UROCANIC ACID**

GLYOXYLATE TRANSACETYLASE see **MALATE SYNTHASE**

GLYOXYLATES

CHEMISTRY

Synthesis of N-glyoxylyl peptides and their in vitro evaluation as HIV-1 protease inhibitors. Qasmi D, et al. **Bioorg Med Chem** 1997 Apr;5(4):707-14

METABOLISM

Transcriptional regulation of peroxisomal glyoxylate cycle enzymes of an n-alkane-assimilating yeast, Candida tropicalis. Atomi H, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:684-6
Metabolism of glyoxylate, the end product of purin degradation, in liver peroxisomes of fresh water fish. Sakuraba H, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):603-6
Idiopathic calcium oxalate urolithiasis and endogenous oxalate production. Baker PW, et al. **Crit Rev Clin Lab Sci** 1996 Jan;33(1):39-82 (250 ref.)
Mathematical models for determining metabolic fluxes through the citric acid and the glyoxylate cycles in Saccharomyces cerevisiae by 13C-NMR spectroscopy. Tran-Dinh S, et al. **Eur J Biochem** 1996 Dec 15; 242(3):770-8
Mutants of Saccharomyces cerevisiae with defects in acetate metabolism: isolation and characterization of Acn- mutants. McCammon MT. **Genetics** 1996 Sep;144(1):57-69
Glyoxylate oxidoreductase activity and glyoxylate-like molecules in the motor, somatosensory, cyngulate and olfactory areas of the rat frontoparietal cortex. Histoenzymological and immunohistochemical study. Martínez-Rodríguez R, et al. **J Hirnforsch** 1997;38(1):61-70
The evidence for conjugated mandelic and phenylglyoxylic acids in the urine of rats dosed with styrene. Linhart I, et al. **Toxicol Lett** 1997 Feb 7;90(2-3):199-205
Introduction and expression of the bacterial glyoxylate cycle genes in transgenic mice. Saini KS, et al. **Transgenic Res** 1996 Nov;5(6):467-73
[Activity of glyoxylate cycle during the culture of Rhodotorula gracilis in the presence of fatty acids and detergents] Ranaldi F, et al. **C R Seances Soc Biol Fil** 1996; 190(2-3):299-309 (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Demonstration of potent lipid-lowering activity by a thyromimetic agent devoid of cardiovascular and thermogenic effects. Stephan ZF, et al. **Atherosclerosis** 1996 Sep 27;126(1):53-63
Effect of glyoxylate on the function of the calcitriol receptor and vitamin D metabolism. Patel SR, et al. **Kidney Int** 1997 Jul;52(1):39-44
Beneficial effects of a novel thyromimetic on lipoprotein metabolism. Taylor AH, et al. **Mol Pharmacol** 1997 Sep; 52(3):542-7

URINE

Application of a single-compartment model for estimation of styrene uptake from measurements of urinary excretion of mandelic and phenylglyoxylic acids after occupational exposure. Wrangskog K, et al. **Int Arch Occup Environ Health** 1996;68(5):337-41
Capillary electrophoresis and supercritical chromatography, complementary and alternative techniques for the determination of urinary metabolites of styrene. Simon P, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26; 679(1-2):103-112
The evidence for conjugated mandelic and phenylglyoxylic acids in the urine of rats dosed with styrene. Linhart I, et al. **Toxicol Lett** 1997 Feb 7;90(2-3):199-205

GLYPIDIZINE see **GLIPIZIDE**

GM ALLOTYPES see **IMMUNOGLOBULIN GM ALLOTYPES**

GM-CSF see **GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR**

GM-CSF RECEPTORS see **RECEPTORS, GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR**

GM-CSF, RECOMBINANT see **GRANULOCYTE MACROPHAGE COLONY-STIMULATING FACTORS, RECOMBINANT**

G(M1) GANGLIOSIDE

see related
GANGLIOSIDOSIS G(M1)

ANALOGS & DERIVATIVES

Efficacy of mipragoside ophthalmic gel in vernal keratoconjunctivitis. Centofanti M, et al. **Eye** 1996;10 (Pt 4):422-4
Anti-fucosyl-GM1 ganglioside IgG and IgM autoantibodies in human serum: no link to pathology. Adler G, et al. **Immunol Lett** 1996 Sep;52(2-3):89-93
Effects of monophosphoryllipid-A on the immunization of mice with keyhole limpet hemocyanin- and muramyldipeptide-ganglioside Gfpt1 conjugates. Jennemann R, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):378-84
Preparation of various lysogangliosides including lyso-fucosyl GM1 and delayed extraction matrix-assisted laser desorption ionization time-of-flight mass spectrometric analysis. Taketomi T, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):264-9
Enhanced thin-layer chromatographic separation of GM1b-type gangliosides by automated multiple development. Müthing J, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):357-62
Antibody to GalNAc-GD1a and GalNAc-GM1b in Guillain-Barré syndrome subsequent to Campylobacter jejuni enteritis. Yuki N, et al. **J Neuroimmunol** 1996 Dec; 71(1-2):155-61

ANALYSIS

Asialo GM1-positive cells in mouse cochlea. Iguchi H, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:6-9
A solid-phase enzyme-linked assay for ceramide glycanase using GM1 and a novel beta-galactosidase inhibitor. Miyoshi I, et al. **Anal Biochem** 1996 May 1;236(2):360-3
Monosialoganglioside (GM1) immunofluorescence in rat spinal roots studied with a monoclonal antibody. Molander M, et al. **J Neurocytol** 1997 Feb;26(2):101-11
Effects of soft X-ray irradiation on NK cell activity and the percentage of asialo GM1-positive cells in spleen cells of mice. Takeuchi M, et al. **J Vet Med Sci** 1997 May; 59(5):413-4

BIOSYNTHESIS

Expression cloning of rat cDNA encoding UDP-galactose:GD2 beta1,3-galactosyltransferase that determines the expression of GD1b/GM1/GA1. Miyazaki H, et al. **J Biol Chem** 1997 Oct 3;272(40):24794-9

BLOOD

Autoantibody reactivity in serum of patients with Alzheimer's disease and other age-related dementias. Schott K, et al. **Psychiatry Res** 1996 Jan 31;59(3):251-4

CEREBROSPINAL FLUID

Increased cerebrospinal fluid ganglioside GM1

concentrations indicating neuronal involvement in all stages of HIV-1 infection. Gisslén M, et al. **J Neurovirol** 1997 Apr;3(2):148–52

CHEMICAL SYNTHESIS

Synthesis and mass spectrometric characterization of digoxigenin and biotin labeled ganglioside GM1 and their uptake by and metabolism in cultured cells. Albrecht B, et al. **Chem Phys Lipids** 1997 Mar 28;86(1):37–50

CHEMISTRY

Quantitative determination of sialic acid in the monosialoganglioside, GM1, by the thiobarbituric acid method. Mattoo RL, et al. **Anal Biochem** 1997 Mar 1; 246(1):30–3

Lipid domains in the membrane: thermotropic properties of sphingomyelin vesicles containing GM1 ganglioside and cholesterol. Ferraretto A, et al. **Biochemistry** 1997 Jul 29; 36(30):9232–6

Conformational changes in cholera toxin B subunit–ganglioside GM1 complexes are elicited by environmental pH and evoke changes in membrane structure. McCann JA, et al. **Biochemistry** 1997 Jul 29; 36(30):9169–78

Conformational study of asialo–GM1 (GA1) ganglioside. Park HJ, et al. **Biopolymers** 1997;42(1):19–35

The interaction between Alzheimer amyloid beta(1–40) peptide and ganglioside GM1–containing membranes. Choo–Smith LP, et al. **FEBS Lett** 1997 Feb 3;402(2–3):95–8

Solution dynamics of the oligosaccharide moiety of ganglioside GM1: comparison of solution conformations with the bound state conformation in association with cholera toxin B–pentamer. Richardson JM, et al. **J Mol Recognit** 1995 Nov–Dec;8(6):358–62

Effect of matrix lipid chain length on liposomes containing cholesterol and ganglioside GM1: implications in drug delivery. Bedu–Addo FK, et al. **J Pharm Sci** 1996 Jul; 85(7):714–9

Structural studies of receptor binding by cholera toxin mutants. Merritt EA, et al. **Protein Sci** 1997 Jul; 6(7):1516–28

IMMUNOLOGY

Neurite outgrowth is enhanced by anti–idiotypic monoclonal antibodies to the ganglioside GM1. Riggott MJ, et al. **Exp Neurol** 1997 May;145(1):278–87

Anti–idiotypic monoclonal antibodies to GM1 identify ganglioside binding proteins. Riggott MJ, et al. **Glycobiology** 1996 Sep;6(6):581–9

Anti–receptor antibodies inhibit Pseudomonas aeruginosa binding to the cornea and prevent corneal perforation. Hobden JA, et al. **Immunol Cell Biol** 1996 Jun;74(3):258–64

Cross–linking of cell surface ganglioside GM1 induces the selective apoptosis of mature CD8+ T lymphocytes. Nahar TO, et al. **Int Immunol** 1996 May;8(5):731–6 (24 ref.)

IgM anti–GM1 antibodies in the Guillain–Barré syndrome: a serological predictor of the clinical course. Bech E, et al. **J Neuroimmunol** 1997 Jan;72(1):59–66

Affinity of anti–GM1 antibodies in Guillain–Barré syndrome patients. Deisenhammer F, et al. **J Neuroimmunol** 1996 May;66(1–2):85–93

Reactivity of serum IgG anti–GM1 ganglioside antibodies with the lipopolysaccharide fractions of Campylobacter jejuni isolates from patients with Guillain–Barre syndrome (GBS). Gregson NA, et al. **J Neuroimmunol** 1997 Mar; 73(1–2):28–36

Induction of anti–GM1 ganglioside antibodies by Campylobacter jejuni lipopolysaccharides. Wirguin I, et al. **J Neuroimmunol** 1997 Sep;78(1–2):138–42

Close association of Guillain–Barré syndrome with antibodies to minor monosialogangliosides GM1b and GM1 alpha. Yuki N, et al. **J Neuroimmunol** 1997 Apr;74(1–2):30–4

Possible mechanism of intravenous immunoglobulin treatment on anti–GM1 antibody–mediated neuropathies. Yuki N, et al. **J Neurol Sci** 1996 Jul;139(1):160–2

Administration of anti–asialo GM1 serum increases aberrant crypt foci induced by 1,2–dimethylhydrazine in the large bowel of rats. Ishizuka S, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Dec;42(6):603–8

Enhanced engraftment of HTLV–I–infected human T cells in severe combined immunodeficiency mice by anti–asialo GM–1 antibody treatment. Ishihara S, et al. **Microbiol Immunol** 1996;40(1):39–44

Antibodies to GM1 and Gal(beta 1–3)GalNAc at the nodes of Ranvier in human and experimental autoimmune neuropathy. Thomas FP. **Microsc Res Tech** 1996 Aug 15; 34(6):536–43 (124 ref.)

Electrodiagnostic findings related to anti–GM1 and anti–GQ1b antibodies in Guillain–Barré syndrome. Jacobs BC, et al. **Muscle Nerve** 1997 Apr;20(4):446–52

Binding of antibodies against GM1 and GD1b in human peripheral nerve. Kusunoki S, et al. **Muscle Nerve** 1997 Jul;20(7):840–5

Multifocal motor neuropathy: serum IgM binding to a GM1 ganglioside–containing lipid mixture but not to GM1 alone. Pestronk A, et al. **Neurology** 1997 Apr;48(4):1104–6

The sensitivity and specificity of anti–GM1 antibody testing. Taylor BV, et al. **Neurology** 1996 Oct;47(4):951–5

Autoantibody reactivity in serum of patients with Alzheimer's disease and other age–related dementias. Schott K, et al. **Psychiatry Res** 1996 Jan 31;59(3):251–4

The binding of chimeric peptides to GM1 ganglioside enables induction of antibody responses after intranasal immunization. Delmas A, et al. **Vaccine** 1996 Aug; 14(11):1077–82

[Anti–GM1 gangliosides antibodies in multifocal motor neuropathies] Younes–Chennoufi AB, et al. **Rev Neurol (Paris)** 1996 May;152(5):375–9 (Eng. Abstr.) **(Fre)**

[A case of myeloradiculoneuropathy associated with persistent high titers of anti–GM1 and anti–GD1b antibodies] Niwa K, et al. **Rinsho Shinkeigaku** 1997 Jan; 37(1):26–30 (Eng. Abstr.) **(Jpn)**

[Axonal Guillain–Barré syndrome associated with antibodies to GalNAc–GD1a and unidentified acidic glycolipids] Ono M, et al. **Rinsho Shinkeigaku** 1997 Feb;37(2):119–22 (Eng. Abstr.) **(Jpn)**

[Guillain–Barré syndrome with high titers of anti–GM2 and anti–GalNAc–GD1a antibody following cytomegalovirus hepatitis] Shimoya K, et al. **Rinsho Shinkeigaku** 1997 Feb; 37(2):106–10 (Eng. Abstr.) **(Jpn)**

[The effect of anti–GM1 antibodies on ionic channel in myelinated nerve] Takigawa T, et al. **Rinsho Shinkeigaku** 1995 Dec;35(12):1377 **(Jpn)**

[A case of chronic inflammatory demyelinating neuropathy associated with antibodies to gangliosides GM1 and GalNAc–GD1a] Tsukaguchi M, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):228–32 (Eng. Abstr.) **(Jpn)**

[Guillain–Barre syndrome and antibodies to ganglioside GM1. Case report] Trišković I, et al. **Srp Arh Celok Lek** 1996 Jul–Aug;124(7–8):210–3 (Eng. Abstr.) **(Scc)**

METABOLISM

Markedly induced asialoGM1+CD8+ T cell production and enhancement of antimetastatic activity by interferon beta with folic or folinic acid. Iigo M, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):65–9

Synthesis and mass spectrometric characterization of digoxigenin and biotin labeled ganglioside GM1 and their uptake by and metabolism in cultured cells. Albrecht B, et al. **Chem Phys Lipids** 1997 Mar 28;86(1):37–50

Intracellular degradation of sulforhodamine–GM1: use for a fluorescence–based characterization of GM2–gangliosidosis variants in fibroblasts and white blood cells. Ägmon V, et al. **Clin Chim Acta** 1996 Mar 29; 247(1–2):105–20

Impairment of ganglioside metabolism in cultured fibroblasts from Salla patients. Pitto M, et al. **Clin Chim Acta** 1996 Mar 29;247(1–2):143–57

Rapid internalization of exogenous ganglioside GM3 and its metabolism to ceramide in human myelogenous leukemia HL–60 cells compared with control ganglioside GM1. Nakamura M, et al. **FEBS Lett** 1997 Jan 6;400(3):350–4

Dependence of rat liver CMP–N–acetylneuraminate:GM1 sialyltransferase (SAT IV) activity on the ceramide composition of GM1 ganglioside. Pitto M, et al. **FEBS Lett** 1996 Apr 1;383(3):223–6

Arthrobacter ureafaciens sialidase isoenzymes, L, M1 and M2, cleave fucosyl GM1. Iwamori M, et al. **Glycoconj J** 1997 Jan;14(1):67–73

Involvement of sphingolipids metabolites in cellular proliferation modulated by ganglioside GM1. Wang F, et al. **Glycoconj J** 1996 Dec;13(6):937–45

Generalized CNS disease and massive GM1–ganglioside accumulation in mice defective in lysosomal acid beta–galactosidase. Hahn CN, et al. **Hum Mol Genet** 1997 Feb;6(2):205–11

Cross–linking of cell surface ganglioside GM1 induces the selective apoptosis of mature CD8+ T lymphocytes. Nahar TO, et al. **Int Immunol** 1996 May;8(5):731–6 (24 ref.)

The internalization of a short acyl chain analogue of ganglioside GM1 in polarized neurons. Sofer A, et al. **J Cell Sci** 1996 Aug;109 (Pt 8):2111–9

Acid and enzymatic hydrolysis of the internal sialic acid residue in native and chemically modified ganglioside GM1. Rodriguez PE, et al. **J Lipid Res** 1996 Feb; 37(2):382–90

Simulation of protein–sugar interactions: a computational model of the complex between ganglioside GM1 and the heat–labile enterotoxin of Escherichia coli. Bernardi A, et al. **J Med Chem** 1997 Jun 6;40(12):1855–62

Interaction of the C–polysaccharide of Streptococcus pneumoniae with the receptor asialo–GM1. Sundberg–Kövamees M, et al. **Microb Pathog** 1996 Oct; 21(4):223–34

Transport of GM1 and GM1 inner ester across an in vitro model of the blood–brain barrier. Wells JM, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):121–4

Role of pili in Haemophilus influenzae adherence to, and internalization by, respiratory cells. Gilsdorf JR, et al. **Pediatr Res** 1996 Feb;39(2):343–8

Bacterial lipopolysaccharide binding to host receptors [letter; comment] Hazlett LD. **Trends Microbiol** 1996 Nov; 4(11):418. Comment on: Trends Microbiol 1996 Oct;4(10):408–9.

PHARMACOLOGY

The membrane disordering effect of ethanol on neural crest cells in vitro and the protective role of GM1 ganglioside. Chen SY, et al. **Alcohol** 1996 Nov–Dec;13(6):589–95

Effect of exogenous GM1 on ethanol sensitivity in selectively bred mouse lines. Ullman MD, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):661–5

GM1 ganglioside improves spatial learning and memory of aged rats. Fong TG, et al. **Behav Brain Res** 1997 May; 85(2):203–11

Ganglioside GM1 potentiates the effect of IL–1 beta on neutral sphingomyelinase activity in rat brain synaptosomes. Nalivaeva NN, et al. **Biochem Soc Trans** 1997 May;25(2):214S

Repeated monosialoganglioside administration attenuates behavioral sensitization to amphetamine. Bellot RG, et al. **Brain Res** 1997 Jan 30;747(1):169–72

Effect of an NMDA receptor antagonist and a ganglioside GM1 derivative upon ethanol–induced modification of parameters of oxidative stress in several brain regions. Bondy SC, et al. **Brain Res** 1996 Apr 15;716(1–2):165–70

Etorphine elicits anomalous excitatory opioid effects on sensory neurons treated with GM1 ganglioside or pertussis toxin in contrast to its potent inhibitory effects on naive or chronic morphine–treated cells. Crain SM, et al. **Brain Res** 1996 Nov 25;741(1–2):275–83

Tyrosine hydroxylase and aromatic L–amino acid decarboxylase in mesencephalic cultures after MPP+: the consequences of treatment with GM1 ganglioside. Dalia A, et al. **Brain Res** 1996 Dec 2;742(1–2):260–4

Cholinergic deficits in aged rat spinal cord: restoration by GM1 ganglioside. Vogelsberg V, et al. **Brain Res** 1997 Jul 4;761(2):250–6

Interaction of the delta–opioid receptor with GM1 ganglioside: conversion from inhibitory to excitatory mode. Wu G, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):341–6

Gangliosides GM1, GM2 and GM3 inhibit the platelet–derived growth factor–induced signalling transduction pathway in vascular smooth muscle cells by different mechanisms. Sachinidis A, et al. **Eur J Cell Biol** 1996 Sep;71(1):79–88

Monosialoganglioside attenuates the excitatory and behavioural sensitization effects of ethanol. Bellot RG, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):175–9

Behavioral effects of GM1 ganglioside treatment and intrahippocampal septal grafts in rats with fimbria–fornix lesions. Roeser C, et al. **Exp Brain Res** 1997 Jul; 115(3):520–30

Gangliosides protect human melanoma cells from ionizing radiation–induced clonogenic cell death. Thomas CP, et al. **Glycoconj J** 1996 Jun;13(3):377–84

Ganglioside GM1 enhances induction by nerve growth factor of a putative dimer of TrkA. Farooqui T, et al. **J Neurochem** 1997 Jun;68(6):2348–55

Nonmuscle myosin heavy chain B is recognized by a monoclonal antibody that inhibits GM1–enhanced neuritogenesis. Mummert CM, et al. **J Neurochem** 1997 Feb;68(2):596–600

Ganglioside GM1 activates the mitogen–activated protein kinase Erk2 and p70 S6 kinase in U–1242 MG human glioma cells. Van Brocklyn JR, et al. **J Neurochem** 1997 Jul;69(1):116–25

Ruthenium red neurotoxicity and interaction with gangliosides in primary cortical cultures. Velasco I, et al. **J Neurosci Res** 1997 Jul 1;49(1):72–9

The effects of nerve growth factor and ganglioside GM1 on the anti–proliferative activity of cocaine in PC12 cells. Tosk JM, et al. **Life Sci** 1996;59(20):1731–7

The effect of X–radiation on cerebellar granule cells grown in culture. Ganglioside GM1 neuroprotective activity. Guelman LR, et al. **Neurochem Int** 1996 Nov;29(5):521–7

Gangliosides enhance KCl–induced Ca2+ influx and acetylcholine release in brain synaptosomes. Tanaka Y, et al. **Neuroreport** 1997 Jul 7;8(9–10):2203–7

Prevention of neuronal apoptotic death by neurotrophic agents and ganglioside GM1: insights and speculations regarding a common mechanism. Ferrari G, et al. **Perspect Dev Neurobiol** 1996;3(2):93–100 (67 ref.)

Intravitreal injection of ganglioside GM1 after ischemia reduces retinal damage in rats. Mohand–Said S, et al. **Stroke** 1997 Mar;28(3):617–21; discussion 622

PHYSIOLOGY

Neuritogenesis, not receptor expression, of NG108–15 cells can be modulated by monosialoganglioside GM1. Hwang HM, et al. **Chin J Physiol** 1996;39(4):211–7

THERAPEUTIC USE

Intracerebroventricular administration of GM1 ganglioside to presenile Alzheimer patients. Augustinsson LE, et al. **Dement Geriatr Cogn Disord** 1997 Jan–Feb;8(1):26–33

New drugs for improving injury outcome in spinal cord injuries. Werner PC. **West J Med** 1997 Apr;166(4):271–2

G(M2) GANGLIOSIDE

see related
SANDHOFF DISEASE
TAY–SACHS DISEASE

ANALOGS & DERIVATIVES

Preparation of various lysogangliosides including lyso–fucosyl GM1 and delayed extraction matrix–assisted laser desorption ionization time–of–flight mass spectrometric analysis. Taketomi T, et al.

J Biochem (Tokyo) 1997 Feb;121(2):264–9

BIOSYNTHESIS

In vivo growth conditions suppress the expression of ganglioside GM2 and favour that of lacto series gangliosides in the human glioma D-54MG cell line. Fredman P, et al. **Glycoconj J** 1996 Jun;13(3):391–9

Compartmental organization of the synthesis of GM3, GD3, and GM2 in golgi membranes from neural retina cells. Maxzúd MK, et al. **Neurochem Res** 1997 Apr;22(4):455–61

CHEMICAL SYNTHESIS

Synthesis of 6'-GM2, a regioisomer of ganglioside GM2, for studying the mechanism of action of GM2 activator. Ishida H, et al. **Carbohydr Res** 1997 Aug 7;302(3–4):223–7

GENETICS

Late-onset GM2 gangliosidosis: Ashkenazi Jewish family with an exon 5 mutation (Tyr180—>His) in the Hex A alpha-chain gene. De Gasperi R, et al. **Neurology** 1996 Aug;47(2):547–52

IMMUNOLOGY

Tumor cell reactivity mediated by IgM antibodies in sera from melanoma patients vaccinated with GM2 ganglioside covalently linked to KLH is increased by IgG antibodies. Livingston P, et al. **Cancer Immunol Immunother** 1997 Jan; 43(6):324–30

Development of a human monoclonal antibody to ganglioside G(M2) with potential for cancer treatment. Nishinaka Y, et al. **Cancer Res** 1996 Dec 15;56(24):5666–71

Cytomegalovirus infections and anti-GM2 antibodies in Guillain-Barré syndrome. Jacobs BC, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):641–3

Pathogenesis of the neurotoxicity caused by anti-GD2 antibody therapy. Yuki N, et al. **J Neurol Sci** 1997 Aug; 149(2):127–30

[Guillain-Barré syndrome with high titers of anti-GM2 and anti-GalNAc-GD1a antibody following cytomegalovirus hepatitis] Shimoya K, et al. **Rinsho Shinkeigaku** 1997 Feb; 37(2):106–10 (Eng. Abstr.) **(Jpn)**

METABOLISM

Characterization of the affinity of the G(M2) activator protein for glycolipids by a fluorescence dequenching assay. Smiljanic-Georgijev N, et al. **Biochim Biophys Acta** 1997 May 23;1339(2):192–202

Formation of a ternary complex between GM2 activator protein, GM2 ganglioside and hexosaminidase A. Yadao F, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):45–52

Elevated GM2 ganglioside is associated with dendritic proliferation in normal developing neocortex. Goodman LA, et al. **Brain Res Dev Brain Res** 1996 May 31; 93(1–2):162–71

Interaction of GM2 activator protein with glycosphingolipids. Hama Y, et al. **J Biol Chem** 1997 Jan 31;272(5):2828–33

Structural organization and expression of the gene for the mouse GM2 activator protein. Bertoni C, et al. **Mamm Genome** 1997 Feb;8(2):90–3

Encephaloneuropathy with lysosomal zebra bodies and GM2 ganglioside storage. Strømme P, et al. **Pediatr Neurol** 1997 Feb;16(2):141–4

Prevention of lysosomal storage in Tay-Sachs mice treated with N-butyldeoxynojirimycin. Platt FM, et al. **Science** 1997 Apr 18;276(5311):428–31

PHARMACOLOGY

Gangliosides GM1, GM2 and GM3 inhibit the platelet-derived growth factor-induced signalling transduction pathway in vascular smooth muscle cells by different mechanisms. Sachinidis A, et al. **Eur J Cell Biol** 1996 Sep;71(1):79–88

PHYSIOLOGY

Mice with disrupted GM2/GD2 synthase gene lack complex gangliosides but exhibit only subtle defects in their nervous system. Takamiya K, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10662–7

G(M3) GANGLIOSIDE

ANALOGS & DERIVATIVES

Chemoenzymatic synthesis of a trimeric ganglioside GM3 analogue. Earle MA, et al. **Carbohydr Res** 1997 Jun 11; 301(1–2):1–4

Preparation of various lysogangliosides including lyso-fucosyl GM1 and delayed extraction matrix-assisted laser desorption ionization time-of-flight mass spectrometric analysis. Taketomi T, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):264–9

ANALYSIS

A close association of GM3 with c-Src and Rho in GM3-enriched microdomains at the B16 melanoma cell surface membrane: a preliminary note. Yamamura S, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):218–22

Evidence for the existence of ganglioside-enriched plasma membrane domains in human peripheral lymphocytes. Sorice M, et al. **J Lipid Res** 1997 May;38(5):969–80

ANTAGONISTS & INHIBITORS

Growth inhibition of human lung adenocarcinoma cells by antibodies against epidermal growth factor receptor and by ganglioside GM3: involvement of receptor-directed protein tyrosine phosphatase(s). Suarez Pestana E, et al. **Br J Cancer** 1997;75(2):213–20

BIOSYNTHESIS

Cell density regulates crypticity of GM3 ganglioside on human glioma cells. Tatewaki K, et al. **Exp Cell Res** 1997 May 25;233(1):145–54

GT3 synthesis in the proximal Golgi occurs in a compartment different from those for GD3 and GM3 synthesis. Rosales Fritz VM, et al. **J Neurochem** 1996 Oct;67(4):1393–400

Compartmental organization of the synthesis of GM3, GD3, and GM2 in golgi membranes from neural retina cells. Maxzúd MK, et al. **Neurochem Res** 1997 Apr;22(4):455–61

CHEMICAL SYNTHESIS

Chemoenzymatic synthesis of a trimeric ganglioside GM3 analogue. Earle MA, et al. **Carbohydr Res** 1997 Jun 11; 301(1–2):1–4

Synthesis of a glioma-related ganglioside, O-Ac GM3 having 3-O-Ac ceramide and its substrate property toward hydrolases. Tsuchihashi K, et al. **J Lipid Res** 1996 Oct; 37(10):2136–44

CHEMISTRY

Binding of influenza A virus to monosialoganglioside (GM3) reconstituted in glucosylceramide and sphingomyelin membranes. Sato T, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):14–20

Novel di-O-acetylated GM3s from equine erythrocytes, one containing 4,9-di-O-acetyl-N-glycolylneuraminic acid and another containing 4-O-acetyl-N-glycolylneuraminic acid and 6-O-acetyl-D-galactose. Yachida Y, et al. **Carbohydr Res** 1997 Mar 5;298(3):201–12

IMMUNOLOGY

Anti-GM3 (II3Neu5Ac-lactosylceramide) ganglioside antibody labels human fetal Purkinje neurons during the critical stage of cerebellar development. Heffer-Lauc M, et al. **Neurosci Lett** 1996 Aug 2;213(2):91–4

METABOLISM

Ganglioside shedding and changes in ceramide biosynthesis in human ovarian tumors. Dyatlovitskaya EV, et al. **Biochemistry (Mosc)** 1997 May;62(5):557–61

Rapid internalization of exogenous ganglioside GM3 and its metabolism to ceramide in human myelogenous leukemia HL-60 cells compared with control ganglioside GM1. Nakamura M, et al. **FEBS Lett** 1997 Jan 6;400(3):350–4

Interaction between complement proteins C5b-7 and erythrocyte membrane sialic acid. Marshall P, et al. **J Exp Med** 1996 Oct 1;184(4):1225–32

PHARMACOLOGY

Gangliosides GM1, GM2 and GM3 inhibit the platelet-derived growth factor-induced signalling transduction pathway in vascular smooth muscle cells by different mechanisms. Sachinidis A, et al. **Eur J Cell Biol** 1996 Sep;71(1):79–88

The role of sphingolipids in the maintenance of fibroblast morphology. The inhibition of protrusional activity, cell spreading, and cytokinesis induced by fumonisin B1 can be reversed by ganglioside GM3. Meivar-Levy I, et al. **J Biol Chem** 1997 Jan 17;272(3):1558–64

PHYSIOLOGY

Angiogenic and angiostatic microenvironment in tumors--role of gangliosides. Alessandri G, et al. **Acta Oncol** 1997;36(4):383–7

Ganglioside GM3 inhibition of EGF receptor mediated signal transduction. Rebbaa A, et al. **Glycobiology** 1996 Jun; 6(4):399–406

Influence of ganglioside GM3 and high density lipoprotein on the cohesion of mouse brain tumor cells. Bai H, et al. **J Lipid Res** 1997 Jan;38(1):160–72

G(M1) GANGLIOSIDOSIS see **GANGLIOSIDOSIS G(M1)**

G(M2) GANGLIOSIDOSIS, TYPE I see **TAY-SACHS DISEASE**

G(M2) GANGLIOSIDOSIS, TYPE II see **SANDHOFF DISEASE**

GMP see **5'-GUANYLIC ACID**

GMP-140 see **P-SELECTIN**

GNATHOSTOMA

Two rare parasites of the human brain--Gnathostoma spinigerum and sparganum (Spirometra). Sharma MC, et al. **J Assoc Physicians India** 1996 Nov;44(11):824–8

ANATOMY & HISTOLOGY

A new type of advanced third-stage larvae of the genus Gnathostoma in freshwater eels, Fluta alba, from Nakhon Nayok, central Thailand. Akahane H, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):743–7

CLASSIFICATION

A new type of advanced third-stage larvae of the genus Gnathostoma in freshwater eels, Fluta alba, from Nakhon Nayok, central Thailand. Akahane H, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):743–7

GROWTH & DEVELOPMENT

Growth and development of Gnathostoma spinigerum early third-stage larvae in vitro. Maleewong W, et al. **J Helminthol** 1997 Mar;71(1):69–71

ISOLATION & PURIFICATION

Discovery of mammalian hosts to Gnathostoma nipponicum larvae and prevalence of the larvae in rodents and insectivores. Oyamada T, et al. **J Vet Med Sci** 1996 Sep; 58(9):839–43

Identification of larval Gnathostoma obtained from imported Chinese loaches. Sohn WM, et al. **Korean J Parasitol** 1996 Sep;34(3):161–7

A survey of Gnathostoma larvae in fresh water fish in the valley of the Yangtze River and morphological characteristics of the recovered larvae. Koga M, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):542–7

Immunohistochemical localization of Gnathostoma spinigerum larval antigens by monoclonal antibodies: II. Electron microscopy. Rojekittikhun W, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):570–3

ULTRASTRUCTURE

Comparative surface ultrastructure of adults and eggs of Gnathostoma obtained in Japan. Koga M. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):71–4

Surface ultrastructures of the third-stage larvae of Gnathostoma hispidum. Sohn WM, et al. **Korean J Parasitol** 1996 Sep;34(3):169–76 (Eng. Abstr.) **(Kor)**

GNOTOBIOTICS see **GERM-FREE LIFE**

GNRH see **GONADORELIN**

GNRH RECEPTORS see **RECEPTORS, LHRH**

GOALS

Mission statements: guidelines for principled medical leadership. Gear AJ, et al. **Acad Emerg Med** 1996 Aug; 3(8):801–3

Conflicting goals of skid training. Katila A, et al. **Accid Anal Prev** 1996 Nov;28(6):785–9

Drinking goal selection in behavioral self-management treatment of chronic alcoholics. Hodgins DC, et al. **Addict Behav** 1997 Mar-Apr;22(2):247–55

The aim of psychoanalytic therapy. Roth N. **Am J Psychother** 1996 Fall;50(4):513–24; discussion 525–7

Developing behavioral objectives for perioperative staff development. Beitz JM. **AORN J** 1996 Jul;64(1):87–8, 92–5

Children's social goals and self-efficacy perceptions as influences on their responses to ambiguous provocation. Erdley CA, et al. **Child Dev** 1996 Aug;67(4):1329–44

Culture and class influences on Anglo and Puerto Rican mothers' beliefs regarding long-term socialization goals and child behavior. Harwood RL, et al. **Child Dev** 1996 Oct; 67(5):2446–61

Relations among children's social goals, implicit personality theories, and responses to social failure. Erdley CA, et al. **Dev Psychol** 1997 Mar;33(2):263–72

Goal difficulty, anxiety and performance. Jones G, et al. **Ergonomics** 1997 Mar;40(3):319–33

Motivational implications of pain: chronicity, psychological distress, and work goal construal in a national sample of adults. Karoly P, et al. **Health Psychol** 1996 Sep; 15(5):383–90

What they want and what they get: the social goals of boys with ADHD and comparison boys. Melnick SM, et al. **J Abnorm Child Psychol** 1996 Apr;24(2):169–85

The most noble sort of obligation. DiBiaggio J. **J Am Coll Dent** 1995 Winter;62(4):8–10

Does self-regulation require cognitive resources? Evaluation of resource allocation models of goal setting. DeShon RP, et al. **J Appl Psychol** 1996 Oct;81(5):595–608

A test of the influence of goal orientation on the feedback-seeking process. VandeWalle D, et al. **J Appl Psychol** 1997 Jun;82(3):390–400

Use of goal attainment scaling in measuring clinically important change in cognitive rehabilitation patients. Rockwood K, et al. **J Clin Epidemiol** 1997 May;50(5):581–8

What is a reasonable weight loss? Patients' expectations and evaluations of obesity treatment outcomes. Foster GD, et

al. **J Consult Clin Psychol** 1997 Feb;65(1):79–85

Coping, drinking motives, goal attainment expectancies and family models in relation to alcohol use among college students. Karwacki SB, et al. **J Drug Educ** 1996; 26(3):243–55

Control of choice by the spatial configuration of goals. Brown MF, et al. **J Exp Psychol Anim Behav Process** 1996 Oct;22(4):438–46

Goal-directed guidance of attention: evidence from conjunctive visual search. Bacon WJ, et al. **J Exp Psychol Hum Percept Perform** 1997 Aug; 23(4):948–61

Emotional responses to goal attainment: strength of regulatory focus as moderator. Higgins ET, et al. **J Pers Soc Psychol** 1997 Mar;72(3):515–25

Appraisal and goal processes as predictors of psychological well-being in bereaved caregivers. Stein N, et al. **J Pers Soc Psychol** 1997 Apr;72(4):872–84

The influences of goal-related actions and reward information on children's and adults' perceptions of effort expenditure and goal desire. Parker BL, et al. **J Psychol** 1996 Sep;130(5):571–83

Beliefs about the state, goals, and objects of sexual desire. Regan PC, et al. **J Sex Marital Ther** 1996 Summer; 22(2):110–20

Effect of goal difficulty, goal specificity and duration of practice time intervals on muscular endurance performance. Bar-Eli M, et al. **J Sports Sci** 1997 Apr; 15(2):125–35

Acceptance of moderate drinking by alcoholism treatment services in Canada. Rosenberg H, et al. **J Stud Alcohol** 1996 Sep;57(5):559–62

Autonomy and goal attainment: parenting, gender, and children's social competence. Crockenberg S, et al. **New Dir Child Dev** 1996 Fall;(73):41–55

Goal confidence and difficulty as predictors of goal attainment in junior high school cross-country runners. Lane AM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):747–52

Goal orientations and perceived purposes of training among elite athletes. Ommundsen Y, et al. **Percept Mot Skills** 1996 Oct;83(2):463–71

Goal setting and feedback for the development of instructional strategies. Tzetzis G, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1411–27

Occupational stresses, goal clarity, control, and strain among nurses in the Finnish health care system. Elovainio M, et al. **Res Nurs Health** 1996 Dec;19(6):517–24

Exploring practical knowledge: a case study of an experienced senior tennis performer. Langley DJ, et al. **Res Q Exerc Sport** 1996 Dec;67(4):433–47

The Task and Ego Orientation in Sport Questionnaire: construct equivalence and mean differences across gender. Li F, et al. **Res Q Exerc Sport** 1996 Jun;67(2):228–38

Social loafing and identifiability: the mediating role of achievement goal orientations. Swain A. **Res Q Exerc Sport** 1996 Sep;67(3):337–44

Neural representations for action. Decety J. **Rev Neurosci** 1996 Oct-Dec;7(4):285–97 (76 ref.)

[The relative effectiveness of setting goals as a chance for dealing with complex decision processes in medicine] Schüppel R. **Gesundheitswesen** 1996 Aug–Sep; 58(8–9):423–31 (58 ref.) (Eng. Abstr.) **(Ger)**

[Standards for otorhinolaryngology--practical goal or wishful thinking?] Schneider W. **HNO** 1997 May; 45(5):349–50 **(Ger)**

[Extensive palliative carcinoma operation—is it really worthwhile? What are the aims?] Trede M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:86–90 (Eng. Abstr.) **(Ger)**

[Personal values and goal orientations of chronically ill adolescents and young adults] Schmitt GM. **Psychother Psychosom Med Psychol** 1997 Jun;47(6):189–97 (80 ref.) (Eng. Abstr.) **(Ger)**

[Goals, content and evaluation of training seminars for quality circle moderators] Härter M, et al. **Z Arztl Fortbild (Jena)** 1996 Aug;90(5):394–9 (Eng. Abstr.) **(Ger)**

[Medical guidelines. Definitions, goals, implementation] Ollenschläger G, et al. **Z Arztl Fortbild (Jena)** 1996 Jun; 90(4):355–61 (14 ref.) (Eng. Abstr.) **(Ger)**

[Goal analysis of participants and moderators of general practice quality circles] Tausch B, et al. **Z Arztl Fortbild (Jena)** 1996 Aug;90(5):454–8 (Eng. Abstr.) **(Ger)**

[Unmarried women of the war generation: an explorative study of their goals in life and personal satisfaction] Wilken B, et al. **Z Gerontol Geriatr** 1997 Jan–Feb;30(1):34–45 (Eng. Abstr.) **(Ger)**

[Basic goals and tasks of the automation of therapeutic-diagnostic procedures in a military medical institution] Pogodin IuI, et al. **Voen Med Zh** 1996 Jul; 317(7):4–8 **(Rus)**

[The mechanism of the organization of the types of goal-directed movements] Skorinkin AI. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov–Dec; 46(6):1008–17 (Eng. Abstr.) **(Rus)**

GOALS, ORGANIZATIONAL see **ORGANIZATIONAL OBJECTIVES**

GOAT DISEASES

Efficacy of a subcutaneously administered, ultraviolet light-killed Pasteurella multocida A:3-containing bacterin against transthoracic challenge exposure in goats. Purdy CW, et al. **Am J Vet Res** 1997 Aug;58(8):841–7

Efficacy of a subcutaneously administered, ultraviolet light-killed Pasteurella haemolytica A1-containing vaccine against transthoracic challenge exposure in goats. Purdy CW, et al. **Am J Vet Res** 1996 Aug;57(8):1168–74

Detection of Trypanosoma brucei, T. congolense and T. vivax infections in cattle, sheep and goats using latex agglutination. Kayang BB, et al. **Int J Parasitol** 1997 Jan; 27(1):83–7

The use of ultrasound to study the prevalence of hydatid cysts in the right lung and liver of sheep and goats in Turkana, Kenya. Maxson AD, et al. **Int J Parasitol** 1996 Nov;26(11):1335–8

The response of breeding doses to nematodiasis: segregation into "responders" and "non-responders". Patterson DM, et al. **Int J Parasitol** 1996 Nov;26(11):1295–303

Surveillance of Cryptosporidia in a veterinary diagnostic laboratory. Caver JA, et al. **J Vet Diagn Invest** 1996 Oct; 8(4):497–500

Intestinal smooth muscle hyperplasia in a goat. de Lara FC, et al. **J Vet Diagn Invest** 1996 Jul;8(3):390–2

Fibrillary astrocytoma in a goat: pathologic, immunohistochemical, and ultrastructural study. Martín de las Mulas J, et al. **J Vet Diagn Invest** 1996 Jul;8(3):387–9

Acute granulocytic leukemia in a slaughter goat. Puette M, et al. **J Vet Diagn Invest** 1997 Jul;9(3):318–9

Caprine abortion following exposure to Mycoplasma capricolum subsp. capricolum. Rodriguez JL, et al. **J Vet Diagn Invest** 1996 Oct;8(4):492–4

Genetic properties of Mycoplasma mycoides subspecies mycoides LC strains isolated from a goat in Japan in 1991. Kobayashi H, et al. **J Vet Med Sci** 1996 Jun;58(6):595–8

Maternal and fetal catecholamine responses to acute hypoxemia in Japanese Saanen goats. Sakamoto H, et al. **J Vet Med Sci** 1996 Jun;58(6):489–93

Olecranon lesions caused by Onchocerca skrjabini in wild Japanese serows (Capricornis crispus). Suzuki Y, et al. **J Vet Med Sci** 1997 May;59(5):387–90

Heartwater in Ghana: implications for control of ticks. Bell-Sakyi L, et al. **Trop Anim Health Prod** 1996 May;28(2 Suppl):59S–64S; discussion 74S–86S

Research on dermatophilosis in Africa. Oppong EN. **Trop Anim Health Prod** 1996 May;28(2 Suppl):9S–17S; discussion 74S–86S

Spot agglutination test for the rapid diagnosis of goat pox. Tiwari AK, et al. **Trop Anim Health Prod** 1996 Aug; 28(3):213–5

Serogroups, toxins and antibiotic resistance of Escherichia coli strains isolated form diarrhoeic goat kids in Spain. Cid D, et al. **Vet Microbiol** 1996 Dec;53(3–4):349–54

The insertion element IS 6110 is a useful tool for DNA fingerprinting of Mycobacterium bovis isolates from cattle and goats in Spain. Liébana E, et al. **Vet Microbiol** 1997 Mar;54(3–4):223–33

The isolation of peste des petits ruminants virus from northern India. Nanda YP, et al. **Vet Microbiol** 1996 Aug; 51(3–4):207–16

Diversity among abortion strains of Chlamydia psittaci demonstrated by inclusion morphology, polypeptide profiles and monoclonal antibodies. Vretou E, et al. **Vet Microbiol** 1996 Aug;51(3–4):275–89

Anthelmintic resistant nematodes in goats in The Netherlands. Borgsteede FH, et al. **Vet Parasitol** 1996 Oct 15;65(1–2):83–7

Efficacy of an albendazole slow-release capsule for the control of susceptible or resistant nematode parasites of dairy goats. Chartier C, et al. **Vet Parasitol** 1996 Dec 31; 67(3–4):197–206

Strategies to reduce transmission of Toxoplasma gondii to animals and humans. Dubey JP. **Vet Parasitol** 1996 Aug; 64(1–2):65–70 (39 ref.)

Effect of Toxoplasma gondii infection on the development of pregnancy and on endocrine foetal-placental function in the goat. Engeland IV, et al. **Vet Parasitol** 1996 Dec 2;67(1–2):61–74

Effects of three nematode anthelmintic treatment regimes on flock performance of sheep and goats under extensive management in semi-arid Kenya. Gatongi PM, et al. **Vet Parasitol** 1997 Mar;68(4):323–36

Interbreed differences in the efficacy of 1% deltamethrin pour-on to protect small livestock against infestation with Ixodes rubicundus (Acari:Ixodidae). Kok DJ, et al. **Vet Parasitol** 1996 May;63(1–2):109–17

Experimental cryptosporidiosis in kids. Koudela B, et al. **Vet Parasitol** 1997 Aug;71(4):273–81

Triclabendazole treatment in experimental goat fasciolosis: anthelmintic efficacy and influence in antibody response and pathophysiology of the disease. Martínez-Moreno A, et al. **Vet Parasitol** 1997 Jan;68(1–2):57–67

Antibody and circulating antigen profiles before and after chemotherapy in goats infected with Fasciola gigantica. Mbuh JV, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):171–9

Piroplasms of domestic animals in the Macedonia region of Greece. 1. Serological cross-reactions. Papadopoulos B, et al. **Vet Parasitol** 1996 May;63(1–2):41–56

Piroplasms of domestic animals in the Macedonia region of Greece. 3. Piroplasms of small ruminants. Papadopoulos B, et al. **Vet Parasitol** 1996 May;63(1–2):67–74

Genetic resistance of three genotypes of goats to experimental infection with Haemonchus contortus. Pralomkarn W, et al. **Vet Parasitol** 1997 Jan;68(1–2):79–90

Caprine arthritis-encephalitis virus: detection of proviral DNA in lactoserum cells. Russo P, et al. **Vet Rec** 1997 May 3;140(18):483–4

The effect of cotrimoxazole on experimental Cryptosporidium parvum infection in kids. Koudela B, et al. **Vet Res** 1997 Jul–Aug;28(4):405–12

RT-PCR detection of lentiviruses in milk or mammary secretions of sheep or goats from infected flocks. Leroux C, et al. **Vet Res** 1997;28(2):115–21

Aspects of the pharmacokinetics of doxycycline given to healthy and pneumonic East African dwarf goats by intramuscular injection. Ole-Mapenay IM, et al. **Vet Res Commun** 1997 Aug;21(6):453–62

A survey of anthelmintic resistance by nematodes on three sheep and two goat farms in Hisar (India). Singh S, et al. **Vet Res Commun** 1997 Aug;21(6):447–51

Enterotoxaemia in goats. Uzal FA, et al. **Vet Res Commun** 1996;20(6):481–92 (38 ref.)

[Impact of the cellular concentration of milk in goats on its production and its composition] Baudry C, et al. **Vet Res** 1997 May-Jun;28(3):277–86 (Eng. Abstr.) **(Fre)**

[Isolation and experimental transmission of Sarcocystis moulei Neveu-Lemaire, 1912] Heydorn AO, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov–Dec; 109(11–12):440–5 (Eng. Abstr.) **(Ger)**

[Teat endoscopy as a diagnostic procedure in the goat] Hospes R, et al. **Tierarztl Prax** 1997 Jan;25(1):37–9 (Eng. Abstr.) **(Ger)**

[Clinical findings and pathology of congenital polycystic renal disease in the goat] Steffen F, et al. **Tierarztl Prax** 1996 Oct;24(5):453–8 (Eng. Abstr.) **(Ger)**

CHEMICALLY INDUCED

Cerebellar degeneration in goats grazing Solanum cinereum (Narrawa burr). Bourke CA. **Aust Vet J** 1997 May; 75(5):363–5

CONGENITAL

Congenital cystic disease of the liver, pancreas, and kidney in a nubian goat (Capra hircus). Krotec K, et al. **Vet Pathol** 1996 Nov;33(6):708–10

DIAGNOSIS

Diagnostic evaluation of PCR in goats experimentally infected with Trypanosoma vivax. de Almeida PJ, et al. **Acta Trop** 1997 Jun 24;66(1):45–50

Multicentric lymphosarcoma with ovarian involvement in a Nubian goat. DiGrassie WA, et al. **Can Vet J** 1997 Jun; 38(6):383–4

Laboratory diagnostic tests for retrovirus infections of small ruminants. Knowles DP Jr. **Vet Clin North Am Food Anim Pract** 1997 Mar;13(1):1–11 (64 ref.)

DRUG THERAPY

Efficacy of closantel against Fasciola hepatica in Korean native goats. Lee CG, et al. **Vet Parasitol** 1996 Oct 25; 65(3–4):307–11

A survey of anthelmintic resistance in nematode parasites of goats in Denmark. Maingi N, et al. **Vet Parasitol** 1996 Nov 1;66(1–2):53–66

Evaluation of decoquinate to treat experimental cryptosporidiosis in kids. Mancassola R, et al. **Vet Parasitol** 1997 Apr;69(1–2):31–7

Triple resistant Ostertagia from angora goats [letter] Coles GC, et al. **Vet Rec** 1996 Sep 21;139(12):299–300

EPIDEMIOLOGY

CAEV infection does not affect prevalence of bacterial mastitis in goats. Nord K. **Acta Vet Scand** 1997;38(2):197–9

Lack of toxicity of Ailanthus altissima (tree-of-heaven) for goats. Bourke CA. **Aust Vet J** 1996 Dec;74(6):465

Search for leprous infection in domestic animals in South India [letter] Job CK, et al. **Indian J Lepr** 1995 Oct–Dec; 67(4):479–80

Prevalence and seasonal changes in the gastro-intestinal helminths of Nigerian goats. Nwosu CO, et al. **J Helminthol** 1996 Dec;70(4):329–33

The prevalence of trypanosomosis in small ruminants and pigs in a sleeping sickness endemic area of Buikwe County, Mukono district, Uganda. Katunguka-Rwakishaya E. **Rev Elev Med Vet Pays Trop** 1996;49(1):56–8

A survey of Toxoplasma gondii antibodies in goats and cattle in Lampung province, Indonesia. Matsuo K, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):554–5

Dermatophilosis in Ghana: effect on the livestock industry. Koney EB. **Trop Anim Health Prod** 1996 May;28(2 Suppl):3S–8S; discussion 74S–86S

Seasonal fluctuation of ixodid ticks on a herd of indigenous goats at Oodi, Kgatleng district, Botswana. Mushi EZ, et al. **Trop Anim Health Prod** 1997 Feb;29(1):29–30

Paratuberculosis in small ruminants, deer, and South American camelids. Stehman SM. **Vet Clin North Am Food Anim Pract** 1996 Jul;12(2):441–55 (56 ref.)

Serological survey of heartwater relative to the distribution of the vector Amblyomma variegatum and other tick species in north Cameroon. Awa DN. **Vet Parasitol** 1997 Jan;68(1–2):165–73

Aspects of animal giardiosis in Granada province (southern Spain). Díaz V, et al. **Vet Parasitol** 1996 Sep 2;64(3):171–6

Relationship between genetic diversity in the nematode Trichostrongylus colubriformis and breeding management in ten dairy-goat farms. N'Zobadila G, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):213–23

Observations on the prevalence of trypanosomosis in small ruminants, equines and cattle, in relation to tsetse challenge, in The Gambia. Snow WF, et al. **Vet Parasitol** 1996 Nov 1;66(1–2):1–11

Pedigree analysis in a herd of dairy goats with respect to the incidence of hydrometra. Hesselink JW, et al. **Vet Q** 1996 Mar;18(1):24–5

Outbreak of cryptosporidiosis in dairy goats in Brazil. Vieira LS, et al. **Vet Rec** 1997 Apr 19;140(16):427–8

Assessment of the severity of natural infections of kids and adult goats by small lungworms (Protostrongylidae, Nematoda) using macroscopic lesion scores. Berrag B, et al. **Vet Res** 1997;28(2):143–8

The seasonal prevalence of Haemonchus species in Red Sokoto (Maradi) goats in Nigeria. Nwosu CO, et al. **Vet Res Commun** 1996;20(4):367–70

Serologic survey for antibodies to Borrelia burgdorferi in sheep, goats and dogs in Cordillera Province, Bolivia. Ciceroni L, et al. **Zentralbl Veterinarmed [B]** 1997 May; 44(3):133–7

Prevalence of sarcocysts in livestock of northwest Ethiopia. Woldemeskel M, et al. **Zentralbl Veterinarmed [B]** 1996 Mar;43(1):55–8

[First report of demodicosis in goats in the Czech Republic] Fleischer P, et al. **Vet Med (Praha)** 1996 Sep;41(9):289–93 (Eng. Abstr.) **(Cze)**

ETIOLOGY

Induction of hydrometra in goats by means of active immunization against prostaglandin F2 alpha. Kornalijnslijper JE, et al. **Anim Reprod Sci** 1997 Mar; 46(1–2):109–22

Lactation associated with acidophilic pituitary adenoma, pheochromocytoma, and cystic endometrial hyperplasia in two goats. Miller CC, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):378–81

Pathophysiological changes evoked by lipopolysaccharide administration in goats. Takeuchi Y, et al. **J Vet Med Sci** 1997 Feb;59(2):125–7

An animal model for human melanoma. Green A, et al. **Photochem Photobiol** 1996 Sep;64(3):577–80

GENETICS

Susceptibility of three breeds of Ugandan goats to experimental infection with Trypanosoma congolense. Katunguka-Rwakishaya E, et al. **Trop Anim Health Prod** 1997 Feb;29(1):7–14

Pedigree analysis in a herd of dairy goats with respect to the incidence of hydrometra. Hesselink JW, et al. **Vet Q** 1996 Mar;18(1):24–5

A retrospective study of the inheritance of peromelia in Angora goats. Agerholm JS, et al. **Zentralbl Veterinarmed A** 1997 Jun;44(4):233–6

IMMUNOLOGY

Evaluation of latex agglutination test for rapid detection of goat poxvirus antigen and antibodies. Rao TV, et al. **Acta Virol** 1996 Apr;40(2):95–7

IgG concentration in mammary secretions of goats throughout lactation in healthy and coagulase-negative staphylococci infected udders. Ferrer O, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):253–60

Prospects of breeding small ruminants for resistance to internal parasites. Woolaston RR, et al. **Int J Parasitol** 1996 Aug-Sep;26(8–9):845–55 (63 ref.)

Effect of chronic fenvalerate (synthetic pyrethroid) intoxication on the immune response of goats to Brucella abortus strain 19 vaccine. Singh KK, et al. **J Comp Pathol** 1996 Oct;115(3):299–303

A Staphylococcus aureus enterotoxin-B induced type 1 immediate hypersensitivity reaction in a goat. Schofield LN, et al. **Microbios** 1997;89(358):29–30

Immunology: resistance to paratuberculosis. Chiodini RJ. **Vet Clin North Am Food Anim Pract** 1996 Jul;12(2):313–43 (122 ref.)

T-lymphocyte populations in the blood of caprine arthritis encephalitis virus-infected goats. Grezel D, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1–2):99–104

Changes in the leukocyte phenotype profile of goats infected with the caprine arthritis encephalitis virus. Jolly PE, et al. **Vet Immunol Immunopathol** 1997 May;56(1–2):97–106

METABOLISM

mRNA levels for central nervous system myelin proteins in myelin deficiency of caprine beta-mannosidosis. Sasaki M, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):131–5

Biochemical and morphological expression of early prenatal caprine beta-mannosidosis. Lovell KL, et al. **Prenat Diagn** 1997 Jun;17(6):551–7

MICROBIOLOGY

Abomasal bloat associated with Sarcina-like bacteria in goat kids. DeBey BM, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1468–9

Molecular characterization of Mycobacterium paratuberculosis isolates from sheep, goats, and cattle by hybridization with a DNA probe to insertion element IS900. Bauerfeind R, et al. **J Clin Microbiol** 1996 Jul; 34(7):1617–21

Pulmonary venous thrombosis in caprine Pasteurella pneumonia. Scholes SF, et al. **J Comp Pathol** 1997 May; 116(4):415–8

Effects of the intravenous administration of Clostridium perfringens type D epsilon toxin on young goats and lambs. Uzal FA, et al. **J Comp Pathol** 1997 Jan;116(1):63–71

Isolation of Staphylococcus chromogenes from an unusual case of impetigo in a goat. Andrews AH, et al. **Vet Rec** 1997 May 31;140(22):584

Identification and characterization of staphylococci isolated from cutaneous lesions of goats. Mahanta PN, et al. **Zentralbl Veterinarmed [B]** 1997 Jul;44(5):309–11

Isolation of Mycoplasma conjunctivae from conjunctival swabs of Alpine ibex (Capra ibex ibex) affected with infectious keratoconjunctivitis. Mayer D, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):155–61

Bacteria associated with enzootic pneumonia in goats. Orós J, et al. **Zentralbl Veterinarmed [B]** 1997 Apr;44(2):99–104

An immunohistochemical method of detecting Mycoplasma species antigens by use of monoclonal antibodies on paraffin sections of pneumonic bovine and caprine lungs. Rodriguez F, et al. **Zentralbl Veterinarmed [B]** 1996 Sep;43(7):429–38

MORTALITY

Albizia versicolor poisoning of sheep and goats in Malawi. Soldan AW, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):217–21

Livestock mortality in Afghanistan in districts with and without a veterinary programme. Schreuder BE, et al. **Trop Anim Health Prod** 1996 May;28(2):129–36

PARASITOLOGY

Development of a diagnostic DNA probe to detect Setaria digitata: the causative parasite of cerebrospinal nematodiasis in goats, sheep and horses. Wijesundera WS, et al. **Br Vet J** 1996 Sep;152(5):561–71

Sheep and goat lines of Teladorsagia circumcincta (Nematoda): from allozyme to morphological identification. Gasnier N, et al. **J Parasitol** 1997 Jun; 83(3):527–9

A quantitative approach to nematode lungworm burdens in goats. Berrag B, et al. **Parasite** 1996 Sep;3(3):291–5

Between goat-farm biological variability of the nematode Muellerius capillaris first-stage larvea. Influence of anthelmintic treatment. Kulo A, et al. **Parasite** 1994 Mar; 1(1):65–70

Evidence for the existence of a sheep and a goat line of Teladorsagia circumcincta (Nematoda). Gasnier N, et al. **Parasitol Res** 1996;82(6):546–50

Linguatula serrata (Frolich 1789) nymphs in lungs of goats in iran. Saiyari M, et al. **Trop Anim Health Prod** 1996 Nov; 28(4):312–4

Species diversity in gastrointestinal nematode communities of dairy goats: species-area and species-climate relationships. Gasnier N, et al. **Vet Res** 1997;28(1):55–64

[Clinical and etiological aspects of goat ear mite infestations in Tuscany] Perrucci S, et al. **Parassitologia** 1996 Dec; 38(3):549–53 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Control of intramammary infections in goats: impact on somatic cell counts. Poutrel B, et al. **J Anim Sci** 1997 Feb; 75(2):566–70

A pathological and immunohistochemical study of caprine pleuropneumonia induced by subspecies of Mycoplasma mycoides. Rodríguez JL, et al. **J Comp Pathol** 1996 May; 114(4):373–84

Experimental Schistosoma bovis infection in goats: the inflammatory response in the small intestine and liver in various phases of infection and reinfection. Lindberg R, et al. **J Parasitol** 1997 Jun;83(3):454–9

Development of bronchus-associated lymphoid tissue in goats. Barman NN, et al. **Lung** 1996;174(2):127–31

Congenital cystic disease of the liver, pancreas, and kidney in a nubian goat (Capra hircus). Krotec K, et al. **Vet Pathol** 1996 Nov;33(6):708–10

Immunohistochemical identification of caprine arthritis-encephalitis virus in paraffin-embedded specimens from naturally infected goats. Storset AK, et al. **Vet Pathol** 1997 May;34(3):180–8

Cholangiocarcinoma in a goat. Rodríguez F, et al. **Vet Rec** 1996 Aug 10;139(6):143–4

Postpartum mummification of a co-twin fetus in a Cameroon dwarf goat doe. Tutt CL. **Vet Rec** 1997 Mar 1; 140(9):229–31

Caprine enterotoxaemia associated with cerebral microangiopathy. Uzal FA, et al. **Vet Rec** 1997 Aug 30; 141(9):224–6

Hereditary caprine phaeochromocytoma. de Gritz BG. **Zentralbl Veterinarmed A** 1997 Jul;44(5):313–6

PHYSIOPATHOLOGY

Pathophysiological changes evoked by lipopolysaccharide administration in goats. Takeuchi Y, et al. **J Vet Med Sci** 1997 Feb;59(2):125–7

The influence of supplementation with cotton seed cake on the resistance of Ugandan goats to primary and secondary challenges with Trypanosoma congolense and on their response to treatment. Katunguka-Rwakishaya E, et al. **Vet Parasitol** 1997 Jun;70(1–3):67–76

Heat production, body temperature, and body posture in west African dwarf goats infected with Trypanosoma vivax. van Dam JT, et al. **Vet Q** 1996 Jun;18(2):55–9

Clinical megaoesophagus in a goat with thymoma. Parish SM, et al. **Vet Rec** 1996 Jul 27;139(4):94

PREVENTION & CONTROL

The results of anthelmintic-abbreviated infections of Trichostrongylus colubriformis and Teladorsagia circumcincta on fecal egg counts in goats on pasture. Hadas E, et al. **J Parasitol** 1997 Jun;83(3):532–3

A review of the use of B. melitensis Rev 1 vaccine in adult sheep and goats. Blasco JM. **Prev Vet Med** 1997 Aug; 31(3–4):275–83 (37 ref.)

Risk factors for transmission and methods for control of caprine arthritis–encephalitis virus infection. Rowe JD, et al. **Vet Clin North Am Food Anim Pract** 1997 Mar; 13(1):35–53 (69 ref.)

A questionnaire survey of nematode parasite control practices on goat farms in Denmark. Maingi N, et al. **Vet Parasitol** 1996 Nov 1;66(1–2):25–37

SURGERY

Prepubic urethrostomy for relief of urethral obstruction in a sheep and a goat. Stone WC, et al. **J Am Vet Med Assoc** 1997 Apr 1;210(7):939–41

Surgical treatment of a septic dentigerous cyst in a goat. Miller CC, et al. **Vet Rec** 1997 May 17;140(20):528–30

Comments on tube cystostomy in small ruminants [letter; comment] Haven ML. **Vet Surg** 1996 Jul-Aug;25(4):351–2 . Comment on: Vet Surg 1995 Nov-Dec;24(6):498–505.

THERAPY

Control of intramammary infections in goats: impact on somatic cell counts. Poutrel B, et al. **J Anim Sci** 1997 Feb; 75(2):566–70

TRANSMISSION

Risk factors for transmission and methods for control of caprine arthritis–encephalitis virus infection. Rowe JD, et al. **Vet Clin North Am Food Anim Pract** 1997 Mar; 13(1):35–53 (69 ref.)

Transmission of paratuberculosis. Sweeney RW. **Vet Clin North Am Food Anim Pract** 1996 Jul;12(2):305–12 (35 ref.)

Seasonal transmission of Fasciola hepatica in Montana, USA, with detection of infected intermediate hosts using a DNA-based assay. Rognlie MC, et al. **Vet Parasitol** 1996 Oct 25;65(3–4):297–305

A fatal case of Listeria endocarditis in a man following his tending of goats suggests an epidemiological link which is not supported by the results. Danielsson-Tham ML, et al. **Zentralbl Veterinarmed [B]** 1997 Jun;44(4):253–6

VIROLOGY

Pathogenesis of infection induced by an adenovirus isolated from a goat. Lehmkuhl HD, et al. **Am J Vet Res** 1997 Jun;58(6):608–11

The response of goat brain cells to infection by caprine arthritis–encephalitis virus. Adeyemo O, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Dec;42(8):1195–209

Reactivation of caprine herpesvirus 1 in latently infected goats. Buonavoglia C, et al. **Comp Immunol Microbiol Infect Dis** 1996 Sep;19(4):275–81

Multiple abortions associated with caprine herpesvirus infection in a goat herd. Williams NM, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):89–91

PCR-based detection and partial characterization of a retrovirus associated with contagious intranasal tumors of sheep and goats. Cousens C, et al. **J Virol** 1996 Nov; 70(11):7580–3

Retrovirus-associated neoplasms of the respiratory system of sheep and goats. Ovine pulmonary carcinoma and enzootic nasal tumor. DeMartini JC, et al. **Vet Clin North Am Food Anim Pract** 1997 Mar;13(1):55–70 (73 ref.)

Peste des petits ruminants in goats in Pakistan. Amjad H, et al. **Vet Rec** 1996 Aug 3;139(5):118–9

GOATPOX VIRUS see **CAPRIPOXVIRUS**

GOATS

The goat mammary gland as a target organ for atrial natriuretic peptide. Cvek K, et al. **Acta Physiol Scand** 1997 May;160(1):9–14

Immunolocalization of receptors for androgen and estrogen in male caprine reproductive tissues: unique distribution of estrogen receptors in efferent ductule epithelium. Goyal HO, et al. **Biol Reprod** 1997 Jan;56(1):90–101

Structural determination of monosialyl trisaccharides

obtained from caprine colostrum. Urashima T, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):431–5

Growth hormone–binding protein in the goat: characterization, evolution under exogenous growth hormone treatment, and correlation with liver growth hormone receptor levels. Jammes H, et al. **Domest Anim Endocrinol** 1996 Nov;13(6):477–89

In vitro susceptibility of goat mononuclear cells to bluetongue virus. Garg AK, et al. **Indian J Exp Biol** 1996 Aug;34(8):818–26

Preparative–scale fractionation of bovine, caprine and ovine whey proteins by bel permeation chromatography. Felipe X, et al. **J Dairy Res** 1997 Aug;64(3):459–64

Cortisol and regulation of tight junctions in the mammary gland of the late–pregnant goat. Thompson GE. **J Dairy Res** 1996 May;63(2):305–8

Occurrence of Listeria monocytogenes and other Listeria spp. in raw caprine milk. Gaya P, et al. **J Dairy Sci** 1996 Nov;79(11):1936–41

Local secretion of nitric oxide and the control of mammary blood flow. Lacasse P, et al. **J Dairy Sci** 1996 Aug; 79(8):1369–74

Melatonin receptors in the brain and pituitary gland of hypothalamo–pituitary disconnected Soay rams. Williams LM, et al. **J Neuroendocrinol** 1997 Aug;9(8):639–43

Comparative pharmacokinetics of paracetamol (acetaminophen) and its sulphate and glucuronide metabolites in desert camels and goats. Ali BH, et al. **J Vet Pharmacol Ther** 1996 Jun;19(3):238–44

Cytochrome P4502E in vivo and in vitro in the dwarf goat: effects of enzyme induction and the applicability of chlorzoxazone as marker substrate. Zweers–Zeilmaker WM, et al. **J Vet Pharmacol Ther** 1996 Jun;19(3):245–50

The repeated sampling bone chamber: a new permanent titanium implant to study bone grafts in the goat. Lamerigts N, et al. **Lab Anim Sci** 1997 Aug;47(4):401–6

Biochemical and morphological expression of early prenatal caprine beta–mannosidosis. Lovell KL, et al. **Prenat Diagn** 1997 Jun;17(6):551–7

Breakdown of peptides from a casein hydrolysate by rumen bacteria. Simultaneous study of enzyme activities and physicochemical parameters. Depardon N, et al. **Reprod Nutr Dev** 1996;36(5):457–66

Lymphocyte subpopulations in the mammary gland of the goat. Ismail HI, et al. **Vet Immunol Immunopathol** 1996 Jul;52(3):201–12

Government proposes precautionary controls on ovine offals [news] **Vet Rec** 1996 Aug 3;139(5):102

Surgical treatment of a septic dentigerous cyst in a goat. Miller CC, et al. **Vet Rec** 1997 May 17;140(20):528–30

[In vitro oocyte maturation in domestic ruminants] Mermillod P, et al. **Contracept Fertil Sex** 1996 Jul–Aug;24(7–8):552–8 (36 ref.) (Eng. Abstr.) **(Fre)**

[Reference values of electrodiagnostic and laboratory studies in young Wallis Schwarzhals goats] Steffen F, et al. **Tierarztl Prax** 1996 Feb;24(1):22–8 (Eng. Abstr.) **(Ger)**

[A case of megaloblastic anemia in an 11–month–old infant fed with goat milk] Sołtyski J, et al. **Pediatr Pol** 1996 Aug; 71(8):709–11 (Eng. Abstr.) **(Pol)**

ABNORMALITIES

Morphology of a six–legged goat with duplication of the intestinal, lower urinary, and genital tracts. Otiang'a–Owiti GE, et al. **Anat Rec** 1997 Mar;247(3):432–8

A retrospective study of the inheritance of peromelia in Angora goats. Agerholm JS, et al. **Zentralbl Veterinarmed A** 1997 Jun;44(4):233–6

A dicephalic goat with other defects. Ramadan RO. **Zentralbl Veterinarmed A** 1996 Aug;43(6):337–43

ANATOMY & HISTOLOGY

Mitochondrial division, blood vessel dilation, and large intercellular space expansion of goat carotid body during hypoxia. Xue D, et al. **Adv Exp Med Biol** 1996;410:55–8

A quantitative study of ganglion cells in the goat retina. Gonzalez–Soriano J, et al. **Anat Histol Embryol** 1997 Mar; 26(1):39–44

Identification of cell types in the developing goat mammary gland. Li P, et al. **Biochem Soc Trans** 1996 Aug;24(3):357S

The surface morphology of the omasum of the African goat. Green ED, et al. **J S Afr Vet Assoc** 1996 Sep;67(3):117–22

Seasonal variation in the correlation of testicular and epididymal weight–dimensions in the red Sokoto goat and white Yankassa ram [published erratum appears in Kaibogaku Zasshi 1996 Apr;71(2):138] Nwoha PU. **Kaibogaku Zasshi** 1996 Feb;71(1):09–14

Cephalad distribution of three differing volumes of new methylene blue injected into the epidural space in adult goats. Johnson RA, et al. **Vet Surg** 1996 Sep–Oct; 25(5):448–51

BLOOD

Characterization of a lectin from goat peripheral blood lymphocytes. Kayestha R, et al. **Indian J Biochem Biophys** 1996 Dec;33(6):506–11

Effect of dietary phenolic amines on testicular function and luteinizing hormone secretion in male angora goats. Vera–Avila HR, et al. **J Anim Sci** 1997 Jun;75(6):1612–20

CLASSIFICATION

Phylogenetics of the Caprinae based on cytochrome b sequence. Groves P, et al. **Mol Phylogenet Evol** 1996 Jun; 5(3):467–76

EMBRYOLOGY

The cell nucleus in early bovine and caprine preimplantation embryos: fine structural cytochemistry and immunoelectron microscopy. Kopecny V, et al. **Eur J Cell Biol** 1996 Aug;70(4):361–72

[Development, cytoarchitecture and ultrastructure of the mesencephalic trigeminal nucleus in domestic ruminants] Hummel G, et al. **Anat Histol Embryol** 1997 Jun; 26(2):99–106 (Eng. Abstr.) **(Ger)**

GENETICS

A caprine dinucleotide repeat: microsatellite CHI AE54. Amills M, et al. **Anim Genet** 1996 Dec;27(6):435–6

A BalI RFLP at the goat beta–casein gene. Pappalardo M, et al. **Anim Genet** 1996 Apr;27(2):123–4

Application of DNA fingerprinting to population study of chamois (Rupicapra rupicapra). Pérez T, et al. **Biochem Genet** 1996 Aug;34(7–8):313–20

Molecular cloning of cDNA encoding the c–kit receptor of Shiba goats and a novel alanine insertion specific to goats and sheep in the kinase insert region. Tanaka S, et al. **Biochim Biophys Acta** 1997 May 30;1352(2):151–5

The interbreeding of sheep and goats. Kelk DA, et al. **Can Vet J** 1997 Apr;38(4):235–7

Comparative FISH–mapping of villin (VIL) gene in river buffalo, sheep and goat chromosomes. Iannuzzi L, et al. **Chromosome Res** 1997 May;5(3):199–202

Conserved Y–chromosomal location of TSPY in Bovidae. Vogel T, et al. **Chromosome Res** 1997 May;5(3):182–5

A genetic linkage map of the male goat genome. Vaiman D, et al. **Genetics** 1996 Sep;144(1):279–305

Spontaneous rate of sister chromatid exchanges (SCEs) and BrdU dose–response relationships in mitotic chromosomes of goat (Capra hircus L.). Di Berardino D, et al. **Hereditas** 1996;124(2):137–43

FISH mapping of three bovine cosmids to cattle, goat, sheep and buffalo X chromosomes. Prakash B, et al. **Hereditas** 1997;126(2):115–9

Molecular cloning of caprine IL–6 cDNA and its expression in insect cells. Takakura H, et al. **Int Arch Allergy Immunol** 1997 Aug;113(4):409–16

Isolation of genomic DNA from milk samples by using Chelex resin. Amills M, et al. **J Dairy Res** 1997 May; 64(2):231–8

Estimation of genetic parameters for milk yield and fat and protein contents of milk from murciano–granadina goats. Analla M, et al. **J Dairy Sci** 1996 Oct;79(10):1895–8

Variance component estimation and multitrait genetic evaluation for type traits of dairy goats. Luo MF, et al. **J Dairy Sci** 1997 Mar;80(3):594–600

Novel polymorphisms in the caprine PrP gene: a codon 142 mutation associated with scrapie incubation period [published erratum appears in J Gen Virol 1997 Mar;78(Pt 3):697] Goldmann W, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2885–91

STAT5A encoding gene maps to chromosome 19 in cattle and goat and to chromosome 11 in sheep. Goldammer T, et al. **Mamm Genome** 1997 Sep;8(9):705–6

Mapping of the interferon gamma gene (IFNG) to chromosomes 3 in sheep and 5 in goat by FISH. Goldammer T, et al. **Mamm Genome** 1996 Jun;7(6):470–1

Physical assignment of glucagon and nebulin in cattle, sheep, and goat. Lopez–Corrales NL, et al. **Mamm Genome** 1997 Jun;8(6):428–9

Phylogenetics of the Caprinae based on cytochrome b sequence. Groves P, et al. **Mol Phylogenet Evol** 1996 Jun; 5(3):467–76

A PCR–RFLP typing method for the caprine Mhc class II DRB gene. Amills M, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1–3):255–60

Genetic resistance of three genotypes of goats to experimental infection with Haemonchus contortus. Pralomkarn W, et al. **Vet Parasitol** 1997 Jan;68(1–2):79–90

[Male XX syndrome: contribution of the caprine and porcine models] Cotinot C, et al. **Contracept Fertil Sex** 1996 Sep; 24(9):624–8 **(Fre)**

GROWTH & DEVELOPMENT

Postnatal development of the exocrine pancreas in suckling goat kids. Lopez V, et al. **Arch Physiol Biochem** 1997 Apr; 105(2):210–5

Grazing and anthelmintic treatments to increase growth of Cashmere and Angora weaner goats [published erratum appears in Aust Vet J 1996 Nov;74(5):400] Robertson JA, et al. **Aust Vet J** 1996 Sep;74(3):246–8

Identification of cell types in the developing goat mammary gland. Li P, et al. **Biochem Soc Trans** 1996 Aug;24(3):357S

Nutritional value of pearl millet for lactating and growing goats. Gelaye S, et al. **J Anim Sci** 1997 May;75(5):1409–14

Nutritional and economic benefits of Leucaena and Gliricidia as feed supplements for small ruminants in humid West Africa. Jabbar MA, et al. **Trop Anim Health Prod** 1997 Feb;29(1):35–47 (44 ref.)

IMMUNOLOGY

Subunit structure of Ca++ dependent soluble goat hepatic lectin: evidence that it has antigenic structural relationship with soluble 14K lectin family. Ali N, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):961–73

IgG concentration in mammary secretions of goats throughout lactation in healthy and coagulase–negative staphylococci infected udders. Ferrer O, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):253–60

Lymphocyte proliferative responses of goats vaccinated with Brucella melitensis 16M or a delta purE201 strain. Olsen SC, et al. **Infect Immun** 1997 Jul;65(7):2987–91

A PCR–RFLP typing method for the caprine Mhc class II DRB gene. Amills M, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1–3):255–60

Flow cytometric analysis of goat milk lymphocytes: subpopulations and adhesion molecule expression. Guiguen F, et al. **Vet Immunol Immunopathol** 1996 Sep;53(1–2):173–8

Study of lymphocyte subpopulations in peripheral blood and secondary lymphoid organs in the goat using monoclonal antibodies to surface markers of bovine lymphocytes. Navarro JA, et al. **Vet Immunol Immunopathol** 1996 May; 51(1–2):147–56

[Western blotting or immunoblotting: application of the Alastat–Alablot to the study of cross reactions between cow's milk and goat's milk] Sabbah A, et al. **Allerg Immunol (Paris)** 1996 Dec;28(10):335–9 (Eng. Abstr.) **(Fre)**

METABOLISM

Evidence for the utilization of peptides for milk protein synthesis in the lactating dairy goat in vivo. Backwell FR, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R955–60

Exocrine pancreatic secretion in suckling goats. Adaptative effects of maternal milk and a milk substitute. Naranjo JA, et al. **Arch Physiol Biochem** 1997 Apr;105(2):190–6

Effect of age on the exocrine pancreatic secretion of the preruminant milk–fed goat. Naranjo JA, et al. **Arch Physiol Biochem** 1997 Apr;105(2):144–50

Conjugated bile acids and intestinal flora during the preruminant stage in goat. Influence of a lamb milk replacer. Rueda A, et al. **Arch Physiol Biochem** 1996; 104(2):246–51

Digestion of 14C–labelled condensed tannins from Desmodium intortum in sheep and goats. Perez–Maldonado RA, et al. **Br J Nutr** 1996 Oct;76(4):501–13

The effects of condensed tannins from Desmodium intortum and Calliandra calothyrsus on protein and carbohydrate digestion in sheep and goats. Perez–Maldonado RA, et al. **Br J Nutr** 1996 Oct;76(4):515–33

Post–natal changes in biliary lipids in suckling goat kids. Fernández JI, et al. **Br Vet J** 1996 Nov;152(6):673–82

Caprine homologue of rodent 5'–AMP–activated protein kinase subunit and yeast SNF4/CAT3 is down–regulated by thyroid hormone. Piosik PA, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):240–53

Nitrogen metabolism of sheep and goats consuming Acacia brevispica and Sesbania sesban. Woodward A, et al. **J Anim Sci** 1997 Apr;75(4):1130–9

Determination of mimosine and 3,4–dihydroxypyridine in milk and plasma of goats. Puchala R, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):375–8

Effect of intravenous amino acid infusion on leucine oxidation across the mammary gland of the lactating goat. Bequette BJ, et al. **J Dairy Sci** 1996 Dec;79(12):2217–24

Evaluation of selected antibiotic residue screening tests for milk from individual goats. Contreras A, et al. **J Dairy Sci** 1997 Jun;80(6):1113–8

Characterization of phosphate sites in native ovine, caprine, and bovine casein micelles and their caseinomacropeptides: a solid–state phosphorus–31 nuclear magnetic resonance and sequence and mass spectrometric study. Rasmussen LK, et al. **J Dairy Sci** 1997 Apr;80(4):607–14

Native corn starch versus either cellulose or glucose in the diet and the effects on apparent magnesium absorption in goats. Schonewille JT, et al. **J Dairy Sci** 1997 Aug; 80(8):1738–43

The localisation and characterisation of insulin–like growth factor–I receptors and the investigation of melatonin receptors on the hair follicles of seasonal and non–seasonal fibre–producing goats. Dicks P, et al. **J Endocrinol** 1996 Oct;151(1):55–63

Lipopolysaccharide–induced suppression of the hypothalamic gonadotropin–releasing hormone pulse generator in ovariectomized goats. Takeuchi Y, et al. **J Vet Med Sci** 1997 Feb;59(2):93–6

The pharmacokinetics of a long–acting formulation of oxytetracycline in sheep and goats. Escudero E, et al. **J Vet Pharmacol Ther** 1996 Feb;19(1):75–7

Selected pharmacokinetics of theophylline ethylenediamine in pre–term and term goat kids. Lidl GM, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):69–72

Pheromone–induced stimulation of hypothalamic gonadotropin–releasing hormone pulse generator in ovariectomized, estrogen–primed goats. Hamada T, et al. **Neuroendocrinology** 1996 Oct;64(4):313–9

Pharmacokinetics of tilmicosin in serum and milk of goats. Ramadan A. **Res Vet Sci** 1997 Jan–Feb;62(1):48–50

Some pharmacokinetic parameters of ampicillin/sulbactam combination after intravenous and intramuscular administration to goats. Espuny A, et al. **Vet Q** 1996 Dec;

18(4):136–40
Pharmacokinetic and pharmacodynamic studies on phenylbutazone and oxyphenbutazone in goats. Cheng Z, et al. **Vet Rec** 1997 Jan 11;140(2):40–3
Bioavailability of sulfamethoxypyridazine following intramuscular or subcutaneous administration in goats. Garg SK, et al. **Vet Res** 1997;28(1):101–4
In vitro and in vivo oxidative biotransformation in the West-African dwarf goat (Caprus hircus aegagrus): substrate activities and effects of inducers. Zweers-Zeilmaker WM, et al. **Xenobiotica** 1996 Nov; 26(11):1131–41

MICROBIOLOGY

Effect of experimental infection with Listeria monocytogenes on the development of pregnancy and on concentrations of progesterone, oestrone sulphate and 15-ketodihydro-PGF2 alpha in the goat. Engeland IV, et al. **Anim Reprod Sci** 1997 Jan;45(4):311–27
An improved method for the recovery of mycoplasmas from the external ear canal of goats. Ribeiro VR, et al. **J Vet Diagn Invest** 1997 Apr;9(2):156–8

PARASITOLOGY

Characterization of Trichuris skrjabini by isoenzyme gel electrophoresis: comparative study with Trichuris ovis. Cutillas C, et al. **Acta Trop** 1996 Oct;62(2):63–9
Diagnostic evaluation of PCR in goats experimentally infected with Trypanosoma vivax. de Almeida PJ, et al. **Acta Trop** 1997 Jun 24;66(1):45–50
Nairobi sheep disease virus isolated from Haemaphysalis intermedia ticks collected in Sri Lanka. Perera LP, et al. **Ann Trop Med Parasitol** 1996 Feb;90(1):91–93
Ostertagia nianqingtanggulaensis Kúng & Li, 1965 (Nematoda: Trichostrongyloidea) from sheep and goats at high altitudes in Nepal. Joshi BR, et al. **J Helminthol** 1997 Mar;71(1):21–7
Olecranon lesions caused by Onchocerca skrjabini in wild Japanese serows (Capricornis crispus). Suzuki Y, et al. **J Vet Med Sci** 1997 May;59(5):387–90
Relationship between genetic diversity in the nematode Trichostrongylus colubriformis and breeding management in ten dairy-goat farms. N'Zobadila G, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):213–23
Ticks of domestic animals in the Macedonia region of Greece. Papadopoulos B, et al. **Vet Parasitol** 1996 May; 63(1–2):25–40
Occurrence of anthelmintic resistant nematodes on sheep farms in England and goat farms in England and Wales. Hong C, et al. **Vet Rec** 1996 Jul 27;139(4):83–6
Abomasal nematodes in goats from the subtropical island of Grand Canary (Spain). Molina JM, et al. **Vet Res** 1997 May-Jun;28(3):259–70
A survey of anthelmintic resistance by nematodes on three sheep and two goat farms in Hisar (India). Singh S, et al. **Vet Res Commun** 1997 Aug;21(6):447–51
[Clinical and etiological aspects of goat ear mite infestations in Tuscany] Perrucci S, et al. **Parassitologia** 1996 Dec; 38(3):549–53 (Eng. Abstr.) **(Ita)**

PHYSIOLOGY

The role of carotid body CO2 during ventilatory acclimatization to hypoxia in the goat. Dwinell MR, et al. **Adv Exp Med Biol** 1996;410:387–90
Effects of continuous intracarotid infusion of dopamine during long-term hypoxia in awake goats. Janssen PL, et al. **Adv Exp Med Biol** 1996;410:383–6
Influence of preload and afterload on genioglossus muscle length in awake goats. Brennick MJ, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2010–7
Lack of effects of growth hormone administration on ovarian function of lactating goats. Driancourt MA, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):123–32
Estrus synchronization in dairy goats: use of fluorogestone acetate vaginal sponges or norgestomet ear implants. Freitas VJ, et al. **Anim Reprod Sci** 1997 Apr;46(3–4):237–44
Effect of service on duration of oestrus and ovulation in dairy goats. Romano JE, et al. **Anim Reprod Sci** 1997 May; 47(1–2):107–12
Biliary secretion in suckling goats: the effect of maternal milk and of a lamb milk replacer. Rueda A, et al. **Arch Physiol Biochem** 1996;104(2):239–45
Feeding of feral goats before live export by ship. Gherardi SG, et al. **Aust Vet J** 1995 Nov;72(11):429–30
The energy costs of walking on the level and on negative and positive slopes in the Granadina goat (Capra hircus). Lachica M, et al. **Br J Nutr** 1997 Jan;77(1):73–81
The interbreeding of sheep and goats. Kelk DA, et al. **Can Vet J** 1997 Apr;38(4):235–7
Growth hormone release induced by an amino acid mixture from primary cultured anterior pituitary cells of goats. Ohata Y, et al. **Domest Anim Endocrinol** 1997 Mar; 14(2):99–107
An investigation of hypo-adrenocorticism in Angora goats. Swart P, et al. **Endocr Res** 1996 Nov;22(4):563–5
The effects of medetomidine on maternal and fetal cardiovascular and pulmonary function, intrauterine pressure and uterine blood flow in pregnant goats. Sakamoto H, et al. **Exp Anim** 1997 Jan;46(1):67–73
The effects of relaxin on the response of intramammary pressure and mammary blood flow to exogenous oxytocin in the goat. Peaker M, et al. **Exp Physiol** 1995 Nov; 80(6):1047–52
The response of breeding doses to nematodiasis: segregation into "responders" and "non-responders". Patterson DM, et al. **Int J Parasitol** 1996 Nov;26(11):1295–303
Median effective dose of propofol required for induction of anaesthesia in goats. Pablo LS, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):86–8
Biotechnological advances in goat reproduction. Amoah EA, et al. **J Anim Sci** 1997 Feb;75(2):578–85 (74 ref.)
Nutritional value of pearl millet for lactating and growing goats. Gelaye S, et al. **J Anim Sci** 1997 May;75(5):1409–14
Relationships between nutrition and foraging behavior of free-ranging sheep and goats. Kronberg SL, et al. **J Anim Sci** 1997 Jul;75(7):1756–63
Cellular defense mechanisms in the udder and lactation of goats. Paape MJ, et al. **J Anim Sci** 1997 Feb;75(2):556–65 (81 ref.)
Effect of dietary phenolic amines on testicular function and luteinizing hormone secretion in male angora goats. Vera-Avila HR, et al. **J Anim Sci** 1997 Jun;75(6):1612–20
In vitro studies on calcium absorption from the gastrointestinal tract in small ruminants. Schröder B, et al. **J Comp Physiol [B]** 1997 Jan;167(1):43–51
Effect of slow-release somatotropin on the pattern of milk yield between and within injection intervals. Gallo L, et al. **J Dairy Sci** 1997 Jan;80(1):46–51
Regulation of blood flow in the mammary microvasculature. Prosser CG, et al. **J Dairy Sci** 1996 Jul;79(7):1184–97 (116 ref.)
Timing of proceptive and receptive behavior of female goats in relation to the preovulatory LH surge. Okada M, et al. **J Vet Med Sci** 1996 Nov;58(11):1085–9
Immobilization of domestic goats (Capra hircus) using orally administered carfentanil citrate and detomidine hydrochloride. Sleeman JM, et al. **J Zoo Wildl Med** 1997 Jun;28(2):158–65
Impedance of a goat eye lens. Kohli KS, et al. **Med Biol Eng Comput** 1997 Jul;35(4):348–53
Responses to systemic angiotensin II in lactating and non-lactating goats. Hossaini-Hilali J, et al. **Regul Pept** 1996 Oct 8;66(1–2):123–6
Lack of long-term facilitation of ventilation after exposure to hypoxia in goats. Dwinell MR, et al. **Respir Physiol** 1997 Apr;108(1):1–9
Estimation of liveweight from chest girth in pure and crossbred west African goats. Benyi K. **Trop Anim Health Prod** 1997 May;29(2):124–8
The effect of level of energy intake on rectal temperature and maintenance requirements of West African dwarf goats. Akinbamijo OO, et al. **Vet Q** 1996 Mar;18(1):26–8
Heat production, body temperature, and body posture in west African dwarf goats infected with Trypanosoma vivax. van Dam JT, et al. **Vet Q** 1996 Jun;18(2):55–9
Chronic treatment with naloxone enhances libido in the male goat during anoestrus. Fuentes VO, et al. **Vet Rec** 1997 Jul 12;141(2):52
Food-associated drinking in pygmy goats: importance of histamine receptors. Rossi R, et al. **Zentralbl Veterinarmed A** 1997 Jun;44(4):243–7
[Integration of young goats into a herd of adult goats] Schwarz E, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jun;110(6):214–9 (Eng. Abstr.) **(Ger)**
[Embryo transfer in the goat--a review] Holtz W. **DTW Dtsch Tierarztl Wochenschr** 1996 Aug-Sep; 103(8–9):293–7 (108 ref.) (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

[Integration of young goats into a herd of adult goats] Schwarz E, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jun;110(6):214–9 (Eng. Abstr.) **(Ger)**

SURGERY

General anesthetic techniques in ruminants [published erratum appears in Vet Clin North Am Food Anim Pract 1997 Mar;13(1):XI] Carroll GL, et al. **Vet Clin North Am Food Anim Pract** 1996 Nov;12(3):627–61 (125 ref.)
Commercial polyester fabric repair of abdominal hernias and defects. Shoukry M, et al. **Vet Rec** 1997 Jun 7;140(23):606–7
Cosmetic dehorning in goats. Hague BA, et al. **Vet Surg** 1997 Jul-Aug;26(4):332–4
A comparison of epidural saline, morphine, and bupivacaine for pain relief after abdominal surgery in goats. Hendrickson DA, et al. **Vet Surg** 1996 Jan-Feb;25(1):83–7

VIROLOGY

BVD-virus infection in goats-experimental studies on transplacental transmissibility of the virus and its effect on reproduction. Depner K, et al. **Arch Virol Suppl** 1991; 3:253–6
Minimization of viral contamination in human pharmaceuticals produced in the milk of transgenic goats. Ziomek CA. **Dev Biol Stand** 1996;88:265–8 (5 ref.)
Molecular characterization of a caprine adenovirus. Williams EL, et al. **Intervirology** 1996;39(4):275–9

GOGGLES see **EYE PROTECTIVE DEVICES**

GOITER

What could mice tell us about goiter or other benign thyroid diseases? Denef JF, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:48–51 (35 ref.)
Comment on: goiter benign disease. Gärtner R. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:55–6 (15 ref.)
Model of the athymic nude mouse for the study of benign goiter disease. Gerber H, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:56–9 (32 ref.)
In vivo models in thyroid research. The limitations of the athymic nude mice model for studies on goiter benign disease. Hoang-Vu C, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:59–60 (7 ref.)
[Amyloid goiter] Scandroglio I, et al. **Minerva Chir** 1996 Jul-Aug;51(7–8):603–5 (Eng. Abstr.) **(Ita)**

BLOOD

The goitrous patient with an elevated serum calcitonin--what to do? [editorial; comment] Horvit PK, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):335–7 (24 ref.). Comment on: J Clin Endocrinol Metab 1997 Feb;82(2):338–41.
[Concentration of thyroxine, triiodothyronine and thyrotropin in blood serum of children with goitre living in the region of Dębica] Brzostek J. **Przegl Lek** 1996; 53(3):150–4 (Eng. Abstr.) **(Pol)**

CHEMICALLY INDUCED

Value of thyroid echography in the long-term follow-up of lithium-treated patients. Loviselli A, et al. **Neuropsychobiology** 1997;36(1):37–41

COMPLICATIONS

Multiple sclerosis and chronic inflammatory diseases. A case-control study. Midgard R, et al. **Acta Neurol Scand** 1996 May;93(5):322–8
A case of dyshormonogenetic goiter complicated with growth hormone deficiency. Kaji M, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):83–7
The effect of goiter on endotracheal intubation. Voyagis GS, et al. **Anesth Analg** 1997 Mar;84(3):611–2
Effect of posture on the flow-volume loop in two patients with euthyroid goiter. Meysman M, et al. **Chest** 1996 Dec; 110(6):1615–8
Thyroid disorders and breast cancer. Shering SG, et al. **Eur J Cancer Prev** 1996 Dec;5(6):504–6
Goitre: a cause of obstructive sleep apnoea in euthyroid patients. Deegan PC, et al. **Eur Respir J** 1997 Feb; 10(2):500–2
Thyroid cancer associated with adenomatous goiter: an analysis of the incidence and clinical factors. Yamashita H, et al. **Surg Today** 1997;27(6):495–9
[Genetic deafness and Pendred syndrome] Ayerbe I, et al. **Rev Laryngol Otol Rhinol (Bord)** 1997;118(2):113–7 (32 ref.) (Eng. Abstr.) **(Fre)**
[Concurrent goiter and vitiligo in a 13-year old boy] Bagłaj SM, et al. **Pediatr Pol** 1996 Jan;71(1):61–3 (Eng. Abstr.) **(Pol)**

CONGENITAL

Nodular hyperplasia in treated congenital goitrous hypothyroidism. Aronson R, et al. **J Pediatr Endocrinol Metab** 1996 Nov-Dec;9(6):613–6

DIAGNOSIS

Fine needle aspiration cytology of amyloid goiter. A report of four cases. Nijhawan VS, et al. **Acta Cytol** 1997 May-Jun;41(3):830–4
Tuberculous anterior neck mass simulating goitre. Abdullah MA, et al. **Ann Trop Paediatr** 1996 Dec;16(4):369–71
Problems in diagnosis and management of goitre in childhood and adolescence. Webb AJ, et al. **Br J Surg** 1996 Nov; 83(11):1586–90
Clinical examination is not an accurate method of defining the presence of goitre in schoolchildren. Lisböa HR, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):471–5
[Euthyroid goiter in puberty--a harmless illness?] Rönnefarth G, et al. **Klin Padiatr** 1996 Mar-Apr;208(2):77–82 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Treatment of goitrous hypothyroidism with iodized oil supplementation in an area of iodine deficiency. Azizi F, et al. **Exp Clin Endocrinol Diabetes** 1996;104(5):387–91
A slightly suppressive dose of L-thyroxine does not affect bone turnover and bone mineral density in pre- and postmenopausal women with nontoxic goitre. De Rosa G, et al. **Horm Metab Res** 1995 Nov;27(11):503–7
Evidence of iodine storage within thyroid stroma after iodine treatment: imaging by secondary ion mass spectometry (SIMS) microscopy in goitrous tissue. el May M, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2370–5
[Non-toxic nodular goiter: treatment and follow-up] Mereu P, et al. **Acta Otorhinolaryngol Ital** 1995 Aug;15(4):301–4 (Eng. Abstr.) **(Ita)**

GOITER

EPIDEMIOLOGY

Comparative screening for thyroid disorders in old age in areas of iodine deficiency, long-term iodine prophylaxis and abundant iodine intake. Szabolcs I, et al. **Clin Endocrinol (Oxf)** 1997 Jul;47(1):87–92

Fairly elevated incidence of goiter with marginally low urinary iodine in adolescents living in the north-western part of Tunisia [letter] el May MV, et al. **Eur J Epidemiol** 1997 Apr;13(3):363–5

Total serum levels of triiodothyronine (T3) thyroxine (T4) and thyrotropine (TSH) in school going children of Dibrugarh district: an endemic goitre region of Assam. Thakur C, et al. **Indian J Physiol Pharmacol** 1997 Apr; 41(2):167–70

Iodine. Do we need an enrichment program in Denmark? Rasmussen LB, et al. **Int J Food Sci Nutr** 1996 Sep; 47(5):377–81

Epidemiological survey of goiter and iodine deficiency in Veneto region. Frigato F, et al. **J Endocrinol Invest** 1996 Dec;19(11):734–8

Longitudinal study on goiter prevalence and goitrogen factors in northeastern Sicily. Regalbuto C, et al. **J Endocrinol Invest** 1996 Oct;19(9):638–45

The prevalence of goitre in remote inland versus coastal areas. Osman A, et al. **Med J Malaysia** 1995 Sep; 50(3):256–62

Prevalence of iodine deficiency disorders and goitre in Chad. Wyss K, et al. **Trop Med Int Health** 1996 Oct;1(5):723–9

[Iodine consumption in France. National results of the Thyromobile project in a population of schoolchildren aged 6–14 years] Caron P, et al. **Ann Endocrinol (Paris)** 1996; 57(4):228–33 (Eng. Abstr.) **(Fre)**

[Increased dietary intake of iodine in young people in Mecklenburg-Vorpommern 1993 and 1996] Hampel R, et al. **Z Ernahrungswiss** 1997 Jun;36(2):151–4 (Eng. Abstr.) **(Ger)**

[Differentiated carcinoma of the thyroid gland in an area of endemic goiter. Clinical study and prognostic correlation] Mato A, et al. **An Med Interna** 1996 Nov; 13(11):537–40 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Goitre and severe autonomic neuropathy due to secondary amyloidosis in a renal transplant patient [letter] Ok E, et al. **Clin Nephrol** 1996 May;45(5):361–2

A case of Pendred's syndrome presenting with amenorrhea. Mushayandebvu TI, et al. **Gynecol Obstet Invest** 1996; 42(4):277–8

Milling reduces the goitrogenic potential of cassava. Mlingi ML, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):445–54

Long-standing goiter and hypothyroidism: an unusual presentation of a TSH-secreting adenoma. Langlois MF, et al. **Thyroid** 1996 Aug;6(4):329–35

[A case of mediastinal goiter with hyperthyroidisms] Tsushima T, et al. **Kyobu Geka** 1997 May;50(5):429–33 (Eng. Abstr.) **(Jpn)**

GENETICS

The gene for Pendred syndrome is located between D7S501 and D7S692 in a 1.7-cM region on chromosome 7q. Coucke P, et al. **Genomics** 1997 Feb 15;40(1):48–54

Deafness and goiter: molecular genetic considerations [editorial] Forrest D. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2764–7 (16 ref.)

Pendred syndrome: evidence for genetic homogeneity and further refinement of linkage. Gausden E, et al. **J Med Genet** 1997 Feb;34(2):126–9

Pendred syndrome—100 years of underascertainment? Reardon W, et al. **QJM** 1997 Jul;90(7):443–7

IMMUNOLOGY

A new understanding of goitrogenesis: role of cytokines in the regulation of normal and aberrant thyroid growth. Dagogo-Jack S. **Afr J Med Med Sci** 1995 Sep;24(3):211–7 (62 ref.)

METABOLISM

Amyloid goiter: radiological study in a case presenting hypothyroidism. Ishimura E, et al. **Horm Metab Res** 1996 Jan;28(1):27–31

Evidence of iodine storage within thyroid stroma after iodine treatment: imaging by secondary ion mass spectometry (SIMS) microscopy in goitrous tissue. el May M, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2370–5

Congenital hypothyroid goiter with deficient thyroglobulin. Identification of an endoplasmic reticulum storage disease with induction of molecular chaperones. Medeiros-Neto G, et al. **J Clin Invest** 1996 Dec 15;98(12):2838–44

TGF-beta 1 immunohistochemistry in goiter: comparison of patients with recurrence or no recurrence. Morosini PP, et al. **Thyroid** 1996 Oct;6(5):417–22

PARASITOLOGY

Microfilariae identified in FNA of a thyroid nodule. Mehrotra R, et al. **Diagn Cytopathol** 1997 Feb;16(2):149–50

PATHOLOGY

Inhibitory effect of dihydrotestosterone on human thyroid cell growth. Rossi R, et al. **J Endocrinol** 1996 Nov; 151(2):185–94

Lingual thyroid. Akyol MU, et al. **Otolaryngol Head Neck Surg** 1996 Nov;115(5):483–4

[Volume reduction of the thyroid after radioiodine therapy in patients with autonomous goiter and Basedow's goiter] Dederichs B, et al. **Nuklearmedizin** 1996 Oct;35(5):164–9 (Eng. Abstr.) **(Ger)**

[Attrition of goiter and elimination of autoantibody to the thyroid caused by treatment of acromegaly: a case study] Sakamoto M, et al. **Nippon Naika Gakkai Zasshi** 1997 May 10;86(5):835–7 **(Jpn)**

PHYSIOPATHOLOGY

Thyroid dysfunction in patients with amyloid goitre. Kimura H, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):769–74

PREVENTION & CONTROL

Existence of iodine deficiency in Hong Kong—a coastal city in southern China. Kung AW, et al. **Eur J Clin Nutr** 1996 Aug;50(8):569–72

Iodide or L-thyroxine to prevent recurrent goiter in an iodine-deficient area: prospective sonographic study. Feldkamp J, et al. **World J Surg** 1997 Jan;21(1):10–4

RADIOGRAPHY

Infected ossified lingual thyroid goitre. Plantet MM, et al. **Eur J Radiol** 1997 May;24(3):230–6

Amyloid goiter: radiological study in a case presenting hypothyroidism. Ishimura E, et al. **Horm Metab Res** 1996 Jan;28(1):27–31

RADIONUCLIDE IMAGING

Tc-99m pertechnetate imaging and CT show bilateral huge cervical and intrathoracic goiter extending to the posterior mediastinum. Lahr B, et al. **Clin Nucl Med** 1996 Nov; 21(11):905–6

Differential diagnosis of a tender goiter. Meier DA, et al. **J Nucl Med** 1996 Oct;37(10):1745–7

RADIOTHERAPY

The reactions of euthyroid and hyperthyroid glands to radioactive iodine. Friedman NB, et al. **Arch Pathol Lab Med** 1996 Jul;120(7):660–1

Thyroid volume and function after 131I treatment of diffuse non-toxic goitre. Nygaard B, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):493–6

Thyrotropin receptor antibodies and Graves' disease, a side-effect of 131I treatment in patients with nontoxic goiter. Nygaard B, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2926–30

Iodine-131 therapy in sporadic nontoxic goiter. de Klerk JM, et al. **J Nucl Med** 1997 Mar;38(3):372–6

[Occurrence of immune hyperthyroidism after radioiodine therapy of autonomous goiter] Hirsch C, et al. **Med Klin** 1997 Mar 15;92(3):130–7 (Eng. Abstr.) **(Ger)**

[Volume reduction of the thyroid after radioiodine therapy in patients with autonomous goiter and Basedow's goiter] Dederichs B, et al. **Nuklearmedizin** 1996 Oct;35(5):164–9 (Eng. Abstr.) **(Ger)**

[Acute hyperparathyroidism associated with follicular carcinoma in the thyroid: possible role of juvenile cervical irradiation. Description of a case] Menis ED, et al. **Minerva Endocrinol** 1997 Mar;22(1):19–22 (Eng. Abstr.) **(Ita)**

SURGERY

Complete airway obstruction during awake fibreoptic intubation. Shaw IC, et al. **Anaesthesia** 1997 Jun;52(6):582–5

Anaesthesia and surgical aspects of thyroid swelling: the Ibadan experience. Soyannwo OA, et al. **East Afr Med J** 1995 Oct;72(10):675–7

Ultrasonographic surveillance after surgery for euthyroid goitre in patients treated or not with thyroxine. Piraneo S, et al. **Eur J Surg** 1997 Jan;163(1):21–6

Experience in a specialist thyroid surgery unit: a demographic study, surgical complications, and outcome. al-Suliman NN, et al. **Eur J Surg** 1997 Jan;163(1):13–20

Recurrent substernal nodular goiter: incidence and management. Hsu B, et al. **Surgery** 1996 Dec;120(6):1072–5

[Plasma and tissue levels of cytokines and adhesive molecules in patients before strumectomy] Mašek Z, et al. **Vnitr Lek** 1996 Nov;42(11):747–50 (Eng. Abstr.) **(Cze)**

[Electromyography study and follow-up of bilateral recurrent laryngeal nerve paralysis after thyroid gland operations] Schneider W, et al. **HNO** 1997 Jul;45(7):551–5 (Eng. Abstr.) **(Ger)**

[Goiter surgery] Di Matteo G, et al. **Ann Ital Chir** 1996 May-Jun;67(3):335–40 (Eng. Abstr.) **(Ita)**

[Surgical treatment of cervico-mediastinal goiter] Mattioli FP, et al. **Ann Ital Chir** 1996 May-Jun;67(3):365–71 (21 ref.) (Eng. Abstr.) **(Ita)**

[Recurrent goiter: analysis of 134 reinterventions] Torre GC, et al. **Ann Ital Chir** 1996 May-Jun;67(3):357–63 (Eng. Abstr.) **(Ita)**

[Small thyroid cancer] Gol'dburt NN, et al. **Arkh Patol** 1996 Jan-Feb;58(1):56–8 (Eng. Abstr.) **(Rus)**

[The extent of the surgical intervention for different forms of goiter] Mamchich VI, et al. **Klin Khir** 1995;(3):42–4 (37 ref.) **(Rus)**

[Surgical treatment of cervicomediastinal goiter] Alvarez Kindelán A, et al. **Arch Bronconeumol** 1997 Feb;33(2):84–8 (Eng. Abstr.) **(Spa)**

[Use of the laryngeal mask in a case of foreseen impossible intubation (letter)] Alonso-Cardaño A, et al. **Rev Esp Anestesiol Reanim** 1996 Dec;43(10):379–80 **(Spa)**

[Risk in the use of a laryngeal mask for an intubation impossible to preview in a case of goiter (letter)] Rodriguez-Hesles Valavázquez C, et al. **Rev Esp Anestesiol Reanim** 1997 Jun-Jul;44(6):255 **(Spa)**

[State of morbidity in goiter and thyroid cancer, their diagnosis and treatment] Cherenko MP, et al. **Klin Khir** 1996;(10):16–9 **(Ukr)**

THERAPY

Diffuse nontoxic and multinodular goiter. Nakhjavani M, et al. **Curr Ther Endocrinol Metab** 1997;6:109–12 (7 ref.)

ULTRASONOGRAPHY

Ultrasonographic surveillance after surgery for euthyroid goitre in patients treated or not with thyroxine. Piraneo S, et al. **Eur J Surg** 1997 Jan;163(1):21–6

Diagnosis and successful in utero treatment of a fetal goitrous hyperthyroidism caused by maternal Graves' disease. A case report. Heckel S, et al. **Fetal Diagn Ther** 1997 Jan-Feb; 12(1):54–8

Assessment of fetal thyroid function by colored Doppler echography. Luton D, et al. **Fetal Diagn Ther** 1997 Jan-Feb;12(1):24–7

VETERINARY

Congenital goiter in cattle. Wither SE. **Can Vet J** 1997 Mar; 38(3):178

Evaluation of hyperplastic goiter in a colony of Syrian hamsters (Mesocricetus auratus). Livingston RS, et al. **Lab Anim Sci** 1997 Aug;47(4):346–50

GOITER, ENDEMIC

Maternal and fetal impact of chronic iodine deficiency. Glinoer D. **Clin Obstet Gynecol** 1997 Mar;40(1):102–16 (23 ref.)

DRUG THERAPY

Endemic goiter. Trimarchi F, et al. **Curr Ther Endocrinol Metab** 1997;6:101–7 (9 ref.)

Control of iodine deficiency using iodination of water in a goitre endemic area. Elnagar B, et al. **Int J Food Sci Nutr** 1997 Mar;48(2):119–27

Treatment by iodized oil (Lipiodol UF) of a population in Mali suffering from endemic goiter. Bellis G, et al. **J Endocrinol Invest** 1996 Jan;19(1):1–5

Radioiodine for non-toxic diffuse goitre [letter] Hegedüs L, et al. **Lancet** 1997 Aug 9;350(9075):409–10

[Therapy of endemic goiter with iodide or l-thyroxine in older patients] Feldkamp J, et al. **Dtsch Med Wochenschr** 1996 Dec 20;121(51-52):1587–91 (Eng. Abstr.) **(Ger)**

[Therapy of euthyroid iron deficiency goiter. Effectiveness of a combination of L-thyroxine and 150 micrograms iodine in comparison with mono-L-thyroxine (published erratum appears in Med Klin 1996 Dec 15;91(12):814)] Grussendorf M. **Med Klin** 1996 Aug 15;91(8):489–93 (Eng. Abstr.) **(Ger)**

[Treatment of euthyroid struma. Comparable volume reduction with 400 micrograms iodine, 100 micrograms levothyroxine combined with 100 micrograms iodine or individually dosed levothyroxine] Peters H, et al. **Med Klin** 1997 Feb 15;92(2):63–7 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Iodization of village water supply in the control of endemic iodine deficiency in rural Sarawak, Malaysia. Foo LC, et al. **Biomed Environ Sci** 1996 Sep;9(2–3):236–41

Current status of endemic goiter in Croatia: the results of a nationwide study (1995). Kusić Z, et al. **J Endocrinol Invest** 1996 Apr;19(4):210–4

Endemic goitre in rural South Delhi. Chaturvedi S, et al. **J Indian Med Assoc** 1996 Mar;94(3):99–100

Endemic goitre in a rural community of KwaZulu-Natal. Benedé JG, et al. **S Afr Med J** 1997 Mar;87(3):310–3

[Endemic goiter in Croatia] Kusić Z, et al. **Lijec Vjesn** 1996 May-Jun;118(5-6):103–7 (Eng. Abstr.) **(Scr)**

[Prevalence of goiter in school-age children in the Pirque Zone. Effects of salt iodination] Téllez R, et al. **Rev Med Chil** 1996 Oct;124(10):1207–10 (Eng. Abstr.) **(Spa)**

ETIOLOGY

The role of ions in goitre prevalence in two local government areas of Plateau State, Nigeria. Banwo AI, et al. **West Afr J Med** 1996 Oct-Dec;15(4):215–8

Serum zinc levels and goitre epidemiology in Germany. Hampel R, et al. **Z Ernahrungswiss** 1997 Mar;36(1):12–5

GENETICS

Thyroglobulin exon 10 gene point mutation in a patient with endemic goiter. Pérez-Centeno C, et al. **Thyroid** 1996 Oct;

6(5):423–7

PHYSIOPATHOLOGY

[Physiopathology of maternal and feto–neonatal thyroid in pregnant women with endemic goiter] Pepe F, et al. **Minerva Ginecol** 1997 Apr;49(4):153–60 (15 ref.) (Eng. Abstr.) **(Ita)**

[General pathology of trace element deficiency] Zhavoronkov AA, et al. **Arkh Patol** 1997 Mar–Apr; 59(2):8–11 (24 ref.) (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Progress against endemic goiter in Croatia––mandatory salt iodination increased after 40 years of implementation [letter] Kusić Z, et al. **J Endocrinol Invest** 1997 Jun; 20(6):346–7

[Why is iodine deficiency once again present in the Berne region?] Als C, et al. **Schweiz Med Wochenschr** 1997 Jan 7;127(1–2):18–22 (Eng. Abstr.) **(Ger)**

[Iodine deficiency in the Carpathian endemic region and iodine prophylaxis in Southern Poland] Lutyński R. **Przegl Lek** 1996;53(11):816–9 (Eng. Abstr.) **(Pol)**

[Effectiveness of using processed cheese enriched with iodine in the prevention of endemic goiter] Sukhinina SIu, et al. **Vopr Pitan** 1997;(1):21–3 **(Rus)**

[New Croatian regulations on iodized salt (letter)] Kusić Z. **Lijec Vjesn** 1996 Nov–Dec;118(11–12):306 **(Scr)**

[Elimination of goiter in Croatia (letter)] Kusić Z. **Lijec Vjesn** 1996 May–Jun;118(5–6):143 **(Scr)**

SURGERY

Complications of 867 thyroidectomies performed in a region of endemic goiter in Turkey. Calik A, et al. **Int Surg** 1996 Jul–Sep;81(3):298–301

[Must the recurrent nerve in thyroid gland resection always be exposed? A prospective randomized study] Koch B, et al. **Chirurg** 1996 Sep;67(9):927–32; discussion 932 (Eng. Abstr.) **(Ger)**

[Surgical treatment of benign recurrent goiter with pre–existing unilateral recurrent laryngeal nerve paralysis––a report of experiences] Wasiak J, et al. **Zentralbl Chir** 1996;121(7):584–6 (Eng. Abstr.) **(Ger)**

THERAPY

[Choice of therapy in unifocal functional autonomy of the thyroid gland with hyperthyroidism] Als C, et al. **Schweiz Med Wochenschr** 1997 May 24;127(21):891–8 (45 ref.) (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

[Thyroid gland ultrasound and urinary iodine excretion in children and adolescents with type I diabetes mellitus] Steiss JO, et al. **Klin Padiatr** 1996 Nov–Dec;208(6):327–33 (Eng. Abstr.) **(Ger)**

GOITER, EXOPHTHALMIC see **GRAVES' DISEASE**

GOITER, INTRATHORACIC see **GOITER, SUBSTERNAL**

GOITER, NODULAR

[Multinodular euthyroid goiter in twin sisters] Lomachenko IN. **Khirurgiia (Mosk)** 1996;(4):75 **(Rus)**

COMPLICATIONS

Autonomous thyroid adenoma, papillary thyroid carcinoma, and ectopic parathyroid adenoma in a patient with primary hyperparathyroidism and a nontoxic multinodular goiter. Kirkwood ID, et al. **Clin Nucl Med** 1997 Jul;22(7):491–3

Extramedullary haematopoiesis in thyroid multinodular goitre preceding clinical evidence of agnogenic myeloid metaplasia. Leoni F, et al. **Histopathology** 1996 Jun; 28(6):559–61

Sporadic medullary thyroid carcinoma associated with toxic multinodular goitre. Small PK, et al. **J R Coll Surg Edinb** 1997 Jun;42(3):199–200

Frequency of thyroid carcinoma in a recent series of 539 consecutive thyroidectomies for multinodular goiter. Pelizzo MR, et al. **Tumori** 1997 May–Jun;83(3):653–5

[Cancer in multinodular goiter] Pelizzo MR, et al. **Ann Ital Chir** 1996 May–Jun;67(3):351–6 (Eng. Abstr.) **(Ita)**

[Hyperthyroidism and hemodialysis] Martín Hernández T, et al. **An Med Interna** 1995 Aug;12(8):391–2 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Benign thyroid nodules. Cooper DS, et al. **Md Med J** 1996 Mar;45(3):229

Evaluation and management of multinodular goiter. Hurley DL, et al. **Otolaryngol Clin North Am** 1996 Aug; 29(4):527–40 (89 ref.)

DRUG THERAPY

Octreotide and bromocriptine suppress thyroid hormone levels and thyroid nodule in an acromegalic patient with nontoxic autonomous goiter. Sakane N, et al. **Endocr J** 1997 Apr;44(2):305–10

[Hormone suppression therapy in benign nodular goiter] Málek Z. **Vnitr Lek** 1996 Sep;42(9):610–4 (Eng. Abstr.) **(Slo)**

EPIDEMIOLOGY

[Multinodular goiter. Epidemiology and prevention] Pinchera A, et al. **Ann Ital Chir** 1996 May–Jun;67(3):317–25 (40 ref.) (Eng. Abstr.) **(Ita)**

ETIOLOGY

Role of basic fibroblast growth factor in the pathogenesis of nodular goiter. Gärtner R, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:36–8

GENETICS

Heterogeneity of nuclear DNA pattern and its relationship with cell cycle activity parameters in multinodular goitre [see comments] Francia G, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):649–54. Comment in: Clin Endocrinol (Oxf) 1997 Jun;46(6):655.

Hyperproliferation and aneuploidy in multinodular goitre and thyroid follicular neoplasia: causal or incidental relationship?[comment] Jasani B. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):655. Comment on: Clin Endocrinol (Oxf) 1997 Jun;46(6):649–54.

Benign and malignant thyroid lesions show instability at microsatellite loci. Soares P, et al. **Eur J Cancer** 1997 Feb; 33(2):293–6

Molecular aspects of the pathogenesis of nodular goiters, thyroid nodules and adenomas. Derwahl M. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:32–5 (15 ref.)

Constitutively activating TSH receptor mutations as the cause of toxic thyroid adenoma, multinodular toxic goiter and autosomal dominant non autoimmune hyperthyroidism. Paschke R. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:129–32 (18 ref.)

Two autonomous nodules of a patient with multinodular goiter harbor different activating mutations of the thyrotropin receptor gene. Duprez L, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):306–8

PATHOLOGY

Follicular neoplasms of the thyroid. Decision tree approach using morphologic and morphometric parameters. Deshpande V, et al. **Acta Cytol** 1997 Mar–Apr;41(2):369–76

[Value of fine–needle aspiration and extemporaneous examination in thyroid surgery. A prospective study of 1235 fine–needle aspirations and extemporaneous examinations in 846 patients] Becouarn G, et al. **J Chir (Paris)** 1996 Jul;133(5):214–21 (53 ref.) (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Activated and interferon–gamma producing thyroid–derived T cells are detected in Graves' disease, thyroid autonomy as well as in non–toxic multinodular goiter [see comments] Aust G, et al. **Eur J Endocrinol** 1996 Jul;135(1):60–8. Comment in: Eur J Endocrinol 1996 Jul;135(1):39–45.

PREVENTION & CONTROL

[Multinodular goiter. Epidemiology and prevention] Pinchera A, et al. **Ann Ital Chir** 1996 May–Jun;67(3):317–25 (40 ref.) (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Amyloidosis of the thyroid [letter] Chong VF. **AJR Am J Roentgenol** 1997 Mar;168(3):845–6

RADIONUCLIDE IMAGING

Technetium–99m tetrofosmin imaging in thyroid diseases: comparison with Tc–99m–pertechnetate, thallium–201 and Tc–99m–methoxyisobutylisonitrile scans. Klain M, et al. **Eur J Nucl Med** 1996 Dec;23(12):1568–74

RADIOTHERAPY

Dosimetry and risk estimates of radioiodine therapy for large, multinodular goiters. Huysmans DA, et al. **J Nucl Med** 1996 Dec;37(12):2072–9

Autoimmune hyperthyroidism occurring late after radioiodine treatment for volume reduction of large multinodular goiters. Huysmans AK, et al. **Thyroid** 1997 Aug;7(4):535–9

Radioiodine for nontoxic multinodular goiter. Huysmans D, et al. **Thyroid** 1997 Apr;7(2):235–9 (22 ref.)

SURGERY

Frequency of thyroid carcinoma in a recent series of 539 consecutive thyroidectomies for multinodular goiter. Pelizzo MR, et al. **Tumori** 1997 May–Jun;83(3):653–5

Long–term observation of serum thyroglobulin after resection of nontoxic goiter and relation to ultrasonographically demonstrated relapse. Date J, et al. **World J Surg** 1996 Mar–Apr;20(3):351–6; discussion 357

[Results of reoperations for goiter] Peix JL, et al. **Ann Chir** 1997;51(3):217–21 (17 ref.) (Eng. Abstr.) **(Fre)**

[Value of fine–needle aspiration and extemporaneous examination in thyroid surgery. A prospective study of 1235 fine–needle aspirations and extemporaneous examinations in 846 patients] Becouarn G, et al. **J Chir (Paris)** 1996 Jul;133(5):214–21 (53 ref.) (Eng. Abstr.) **(Fre)**

[Must the recurrent nerve in thyroid gland resection always be exposed? A prospective randomized study] Koch B, et al. **Chirurg** 1996 Sep;67(9):927–32; discussion 932 (Eng. Abstr.) **(Ger)**

[Surgical treatment of multinodular goiter] Mattioli FP, et al. **Ann Ital Chir** 1996 May–Jun;67(3):341–5 (Eng. Abstr.) **(Ita)**

[Total thyroidectomy in the treatment of diffuse multinodular goiters] Ghelase F, et al. **Chirurgia (Bucur)** 1996 Mar–Apr; 45(2):81–3 **(Rum)**

[Small thyroid cancer] Gol'dburt NN, et al. **Arkh Patol** 1996 Jan–Feb;58(1):56–8 (Eng. Abstr.) **(Rus)**

[Nodular goiter and thyroid cancer] Valdina EA. **Vestn Khir Im I I Grek** 1997;156(2):23–6 (Eng. Abstr.) **(Rus)**

THERAPY

Diffuse nontoxic and multinodular goiter. Nakhjavani M, et al. **Curr Ther Endocrinol Metab** 1997;6:109–12 (7 ref.)

[Medical treatment of multinodular goiter] Giordano G. **Ann Ital Chir** 1996 May–Jun;67(3):327–34 (55 ref.) (Eng. Abstr.) **(Ita)**

[Postoperative organotherapy for multinodular goiter] Iacconi P, et al. **Ann Ital Chir** 1996 May–Jun;67(3):347–50 (Eng. Abstr.) **(Ita)**

ULTRASONOGRAPHY

Submucosal haemorrhage––or ruptured nodule in a multinodular goitre? Ultrasound scan suggested recent haemorrhage in a left upper pole thyroid nodule [letter] Issa BG, et al. **BMJ** 1997 May 3;314(7090):1351

GOITER, SUBSTERNAL

[Diving goiter. Apropos of 139 cases] Colin L, et al. **Chirurgie** 1996;121(3):231–4 (25 ref.) (Eng. Abstr.) **(Fre)**

[Substernal goiters: current diagnostic–therapeutic trends] Caracò C, et al. **G Chir** 1997 Apr;18(4):213–8 (33 ref.) (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Pituitary apoplexy after subtotal thyroidectomy in an acromegalic patient with a large goiter. Kato K, et al. **Intern Med** 1996 Jun;35(6):472–7

Superior vena cava syndrome caused by a benign retrosternal multinodular goiter. Promisloff RA, et al. **J Am Osteopath Assoc** 1997 Jul;97(7):409–10

[Tracheal stenosis as the presenting form of follicular thyroid carcinoma] Carrión Valero F, et al. **An Med Interna** 1996 Jun;13(6):282–4 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Anaesthesia for a patient with a mediastinal mass presenting with acute stridor. Lewer BM, et al. **Anaesth Intensive Care** 1996 Oct;24(5):605–8

The Pemberton and Maroni signs [letter; comment] Auwaerter PG. **Ann Intern Med** 1997 Jun 1;126(11):916. Comment on: Ann Intern Med 1996 Oct 1;125(7):568–9.

The Pemberton and Maroni signs [letter; comment] Norcross CQ, et al. **Ann Intern Med** 1997 Jun 1;126(11):915–6. Comment on: Ann Intern Med 1996 Oct 1;125(7):568–9.

Giant mediastinal parathyroid cyst masquerading as a substernal goiter. Lydiatt WM, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):411–3

[Down–hill varicose veins in struma permagna and unilateral hypoplasia of the internal jugular vein] Springer P, et al. **Aktuelle Radiol** 1996 Jul;6(4):194–6 (Eng. Abstr.) **(Ger)**

[Substernal goiters: current diagnostic–therapeutic trends] Caracò C, et al. **G Chir** 1997 Apr;18(4):213–8 (33 ref.) (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

In–111 octreotide uptake in substernal colloid. Singh RP, et al. **Clin Nucl Med** 1996 Aug;21(8):643

SURGERY

Retrosternal goitre: a wider view. Armour RH, et al. **Br J Surg** 1997 Mar;84(3):403

Retrosternal goitre: a wider view [letter] Young AE. **Br J Surg** 1997 Aug;84(8):1170

[Specific morbidity of substernal goiters. A comparative study with a matched series of cervical goiters] Goudet P, et al. **Ann Chir** 1996;50(10):913–7 (Eng. Abstr.) **(Fre)**

[A case of intrathoracic goiter] Uematsu M, et al. **Kyobu Geka** 1996 May;49(5):425–9 (Eng. Abstr.) **(Jpn)**

[Removal of complete type of mediastinal goiter in thirty–six–year–old female––a case report] Koyama S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):2068–71 (Eng. Abstr.) **(Jpn)**

GOITROGENS see **ANTITHYROID AGENTS**

GOLD

see related
ANTIRHEUMATIC AGENTS, GOLD

Ultrastructural localization of histamine in human basophils

and mast cells; changes associated with anaphylactic degranulation and recovery demonstrated with a diamine oxidase–gold probe. Dvorak AM. **Allergy** 1997;52(34 Suppl):14–24 (30 ref.)

Scanning tunneling microscopy of mercapto–hexyl–oligonucleotides attached to gold. Rekesh D, et al. **Biophys J** 1996 Aug;71(2):1079–86

Covalent immobilization of native biomolecules onto Au(111) via N–hydroxysuccinimide ester functionalized self–assembled monolayers for scanning probe microscopy. Wagner P, et al. **Biophys J** 1996 May;70(5):2052–66

Membranous glomerulonephritis in rheumatoid arthritis unrelated to gold, D–penicillamine or other connective tissue disease. Zarza LP, et al. **Clin Rheumatol** 1996 Jul; 15(4):385–8

Using microcontact printing to pattern the attachment of mammalian cells to self–assembled monolayers of alkanethiolates on transparent films of gold and silver. Mrksich M, et al. **Exp Cell Res** 1997 Sep 15;235(2):305–13

Osmotic stress effects on the freezing tolerance of the antarctic nematode Panagrolaimus davidi. Wharton DA, et al. **J Comp Physiol [B]** 1996;166(5):344–9

Use of gold weights to correct lagophthalmos in neuromuscular disease. Sansone V, et al. **Neurology** 1997 Jun;48(6):1500–3

Prevalence of occupational lung disease among Botswana men formerly employed in the South African mining industry. Steen TW, et al. **Occup Environ Med** 1997 Jan; 54(1):19–26

Gold plating on spectacle frames. Kenny I, et al. **Ophthalmic Physiol Opt** 1997 May;17(3):263–6

Asthma in goldminers [letter] Cowie RL. **S Afr Med J** 1997 Mar;87(3):337

Asthma in goldminers. Cowie RL, et al. **S Afr Med J** 1996 Jul;86(7):804–7

The respiratory health of goldminers [editorial] White N, et al. **S Afr Med J** 1996 Jul;86(7):793–4

Monitoring of fish and human exposure to mercury due to gold mining in the Lake Victoria goldfields, Tanzania. Ikingura JR, et al. **Sci Total Environ** 1996 Nov 18; 191(1–2):59–68

Patterned delivery of immunoglobulins to surfaces using microfluidic networks. Delamarche E, et al. **Science** 1997 May 2;276(5313):779–81

Selective colorimetric detection of polynucleotides based on the distance–dependent optical properties of gold nanoparticles [see comments] Elghanian R, et al. **Science** 1997 Aug 22;277(5329):1078–81. Comment in: Science 1997 Aug 22;277(5329):1036–7.

The industrial panopticon: mining and the medical construction of migrant African labour in South Africa, 1900–1950. Butchart A. **Soc Sci Med** 1996 Jan;42(2):185–97 (63 ref.)

Migrancy, masculine identities and AIDS: the psychosocial context of HIV transmission on the South African gold mines. Campbell C. **Soc Sci Med** 1997 Jul;45(2):273–81

Lung cancer in relation to exposure to silica dust, silicosis and uranium production in South African gold miners. Hnizdo E, et al. **Thorax** 1997 Mar;52(3):271–5

Strategies for preventing adolescent mercury exposure in Brazilian gold mining areas. Câmara V de M, et al. **Toxicol Ind Health** 1997 Mar–Jun;13(2–3):285–97

Biochemical assessment of cyanide–induced toxicity in migratory birds from gold mining hazardous waste ponds. Pritsos CA, et al. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):203–9

[Rehabilitation of the eye in patients with facial paralyses: indications and results of gold weight implantation] Linder T, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):293–5 (Eng. Abstr.) **(Ger)**

[Experiences with upper eyelid gold implantation in facial paralysis] Maurer J, et al. **Laryngorhinootologie** 1997 Feb; 76(2):106–9 (Eng. Abstr.) **(Ger)**

[6 years experience with reversible and surgical upper eyelid weighting in lagophthamos] Müller–Jensen K, et al. **Ophthalmologe** 1997 Apr;94(4):295–9 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

Toxicity profile of dual methotrexate combinations with gold, hydroxychloroquine, sulphasalazine and minocycline in rheumatoid arthritis patients. Elkayam O, et al. **Rheumatol Int** 1997;17(2):49–53

ADVERSE EFFECTS

Development of amyloidosis as an unrecognized side effect of gold therapy: comment on the article by Shapiro and Spiera [letter; comment] Michels H, et al. **Arthritis Rheum** 1996 Nov;39(11):1932–4. Comment on: Arthritis Rheum 1995 Dec;38(12):1851–4.

Occupational contact dermatitis to gold. Tan E, et al. **Australas J Dermatol** 1996 Nov;37(4):218–9

Granulomatous contact dermatitis due to gold earrings. Armstrong DK, et al. **Br J Dermatol** 1997 May; 136(5):776–8

Contact allergens—what's new? Metals. Burrows DD. **Clin Dermatol** 1997 Jul–Aug;15(4):505–9 (42 ref.)

Lichenoid dermatitis after consumption of gold–containing liquor. Russell MA, et al. **J Am Acad Dermatol** 1997 May; 36(5 Pt 2):841–4

Persistent cutaneous pseudolymphoma after intradermal gold injection. Kalimo K, et al. **J Cutan Pathol** 1996 Aug; 23(4):328–34

Preliminary study of lung cancer mortality among Western Australian gold miners exposed to silica. de Klerk NH, et al. **Scand J Work Environ Health** 1995;21 Suppl 2:66–8

[Prolonged gold therapy for nephrotic syndrome in a patient with undiagnosed polyarthritis] Leszczyński P, et al. **Pol Arch Med Wewn** 1996 Aug;96(2):153–6 (Eng. Abstr.) **(Pol)**

[Pathohistologic and ultrastructural features of drug–induced membranous glomerulonephritis] Pospishil' IuA. **Arkh Patol** 1996 Sep–Oct;58(5):52–6 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Using self–assembled monolayers to understand the interactions of man–made surfaces with proteins and cells. Mrksich M, et al. **Annu Rev Biophys Biomol Struct** 1996; 25:55–78 (87 ref.)

Platelet binding and protein adsorption to titanium and gold after short time exposure to heparinized plasma and whole blood. Kanagaraja S, et al. **Biomaterials** 1996 Dec; 17(23):2225–32

Diamine oxidase–gold enzyme–affinity ultrastructural demonstration that human gut mucosal mast cells secrete histamine by piecemeal degranulation in vivo. Dvorak AM, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):812–20

Peptide–derived self–assembled monolayers: adsorption of N–stearoyl L–cysteine methyl ester on gold. Dawson SL, et al. **J Mol Recognit** 1997 Jan–Feb;10(1):18–25

Metal–recognition by repeating polypeptides. Brown S. **Nat Biotechnol** 1997 Mar;15(3):269–72

A novel organic solvent–based coupling method for the preparation of covalently immobilized proteins on gold. Parker MC, et al. **Protein Sci** 1996 Nov;5(11):2329–32

DNA ventures into the world of designer materials [news; comment] Service RF. **Science** 1997 Aug 22; 277(5329):1036–7. Comment on: Science 1997 Aug 22;277(5329):1078–81.

DIAGNOSTIC USE

Persistent cutaneous pseudolymphoma after intradermal gold injection. Kalimo K, et al. **J Cutan Pathol** 1996 Aug; 23(4):328–34

ISOLATION & PURIFICATION

Selective adsorption: a new method for purification of protein A–gold complexes. Lucocq J. **Microsc Res Tech** 1996 Nov 1;35(4):314–9

METABOLISM

Two–dimensional arrangement of a functional protein by cysteine–gold interaction: enzyme activity and characterization of a protein monolayer on a gold substrate. Sasaki YC, et al. **Biophys J** 1997 Apr;72(4):1842–8

Impedance analysis of epithelial and endothelial cell monolayers cultured on gold surfaces. Wegener J, et al. **J Biochem Biophys Methods** 1996 Jul 10;32(3):151–70

Gold replacement of cadmium, zinc–binding metallothionein. Saito S, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jul;93(1):101–7

PHARMACOKINETICS

Ultrastructural study on the interaction of native and cationized albumin–gold complexes with mouse brain microvascular endothelium. Vorbrodt AW, et al. **J Neurocytol** 1996 Nov;25(11):645–57

PHARMACOLOGY

Cell and soft tissue interactions with methyl– and hydroxyl–terminated alkane thiols on gold surfaces. Lindblad M, et al. **Biomaterials** 1997 Aug;18(15):1059–68

Gold ion inhibits silver ion induced contracture and activates ryanodine receptors in skeletal muscle. Nihonyanagi K, et al. **Eur J Pharmacol** 1996 Sep 12;311(2–3):271–6

Influences of gold on zinc, copper and metallothionein kinetics in liver and kidney of the rat. Hinck–Kneip C, et al. **Hum Exp Toxicol** 1996 Jun;15(6):518–22

Antimicrobial activities in vitro and in vivo of transition element complexes containing gold(I) and osmium(VI). Elsome AM, et al. **J Antimicrob Chemother** 1996 May; 37(5):911–8

The effect of gold on copper and zinc in kidney and in metallothionein. Saito S. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):171–6

THERAPEUTIC USE

Do gold rings protect against articular erosion in rheumatoid arthritis? Mulherin DM, et al. **Ann Rheum Dis** 1997 Aug; 56(8):497–9

Adding low–dose cyclosporin A to parenteral gold therapy in rheumatoid arthritis: a double–blind placebo–controlled study. Bendix G, et al. **Br J Rheumatol** 1996 Nov; 35(11):1142–9

Early eyelid rehabilitation in facial nerve paralysis. Linder TE, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1115–8

TOXICITY

Gold and D–penicillamine induce vasculitis and up–regulate mRNA for IL–4 in the Brown Norway rat: support for a role for Th2 cell activity. Qasim FJ, et al. **Clin Exp Immunol** 1997 Jun;108(3):438–45

GOLD ALLOYS

Orthodontic bonding to Adlloy–treated type IV gold. Nollie G, et al. **Angle Orthod** 1997;67(3):183–8

Reanimation of the paralyzed face with new gold weight implants and Goretex soft–tissue patches. Moser G, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S76–8

Effects of fabrication, finishing, and polishing procedures on preload in prostheses using conventional "gold' and plastic cylinders. Carr AB, et al. **Int J Oral Maxillofac Implants** 1996 Sep–Oct;11(5):589–98 (20 ref.)

Casting alloys and restorative care [letter; comment] Colquitt T. **J Am Dent Assoc** 1997 Apr;128(4):406, 408. Comment on: J Am Dent Assoc 1996 Aug;127(8):1233–6. Comment on: J Am Dent Assoc 1997 Jan;128(1):14. Comment on: J Am Dent Assoc 1997 Jan;128(1):37–45.

Gold restorations [letter; comment] [see comments] Small BW. **J Am Dent Assoc** 1997 Jan;128(1):14. Comment on: J Am Dent Assoc 1996 Aug;127(8):1233–6. Comment in: J Am Dent Assoc 1997 Apr;128(4):406, 408.

Effects of adhesive primers for noble metals on shear bond strengths of resin cements. Yoshida K, et al. **J Dent** 1997 Jan;25(1):53–8

Bonding of silver–palladium–copper–gold alloy with thiol derivative primers and tri–n–butylborane initiated luting agents. Matsumura H, et al. **J Oral Rehabil** 1997 Apr; 24(4):291–6

Brazing joints of gold alloy used in porcelain–fused–to–metal restorations and their resistance to deflection fatigue. Vallittu PK. **J Oral Rehabil** 1997 Jun;24(6):444–8

Bonding of hybrid composite resin to the surface of gold–alloy used in porcelain–fused–to–metal restorations. Vallittu PK. **J Oral Rehabil** 1997 Aug;24(8):560–7

Improving marginal adaptation for type III gold castings. Caluori DM, et al. **J Prosthet Dent** 1997 May;77(5):556

Marginal leakage of cast gold crowns luted with zinc phosphate cement: an in vivo study. Kydd WL, et al. **J Prosthet Dent** 1996 Jan;75(1):9–13

The precision of fit at the implant prosthodontic interface. May KB, et al. **J Prosthet Dent** 1997 May;77(5):497–502

Gold inlays bonded with a resin cement: a clinical report. Miya DM. **J Prosthet Dent** 1997 Sep;78(3):233–5

Evaluation of wear: enamel opposing three ceramic materials and a gold alloy. Ramp MH, et al. **J Prosthet Dent** 1997 May;77(5):523–30

Electroforming technology for galvanoceramic restorations. Vence BS. **J Prosthet Dent** 1997 Apr;77(4):444–9

Tensile strength of soldered gold alloy joints. Watanabe I, et al. **J Prosthet Dent** 1997 Sep;78(3):260–6

ADVERSE EFFECTS

Radiation keratosis associated with exposure to a gold ring. Helm KF, et al. **Cutis** 1996 Jun;57(6):435–6

ANALYSIS

Exposure of nickel in used and unused gold–plated earrings: a study using scanning electron microscopy and X–ray microanalysis. Ishikawaya Y, et al. **Contact Dermatitis** 1997 Jan;36(1):1–4

CHEMISTRY

The effect of potential investment expansion and hot strength on the fit of full crown castings made with phosphate–bonded investment. Earnshaw R, et al. **J Oral Rehabil** 1997 Jul;24(7):532–9

An in vitro investigation of the wear of enamel on porcelain and gold in saliva. Hacker CH, et al. **J Prosthet Dent** 1996 Jan;75(1):14–7

Mechanical and elemental characterization of solder joints and welds using a gold–palladium alloy. Wiskott HW, et al. **J Prosthet Dent** 1997 Jun;77(6):607–16

TOXICITY

[The biological compatibility of the new noble alloy Superpal for metal–ceramic dentures] Lebedenko IIu, et al. **Stomatologiia (Mosk)** 1996;75(3):44–8 (Eng. Abstr.) **(Rus)**

GOLD ANTIARTHRITIC AGENTS see **ANTIRHEUMATIC AGENTS, GOLD**

GOLD ANTI–INFLAMMATORY AGENTS see **ANTIRHEUMATIC AGENTS, GOLD**

GOLD COLLOID

Colloidal gold particles as a marker of plasma perfusion and endocytosis in kidney, liver, and spleen. König MF, et al. **Adv Exp Med Biol** 1997;411:295–301

Cationic colloidal gold staining of acidic glycoconjugates in mouse Paneth cells. Ge YB, et al. **Arch Histol Cytol** 1997 Jun;60(2):133–42

Glycocytochemistry of the mouse parotid gland. Investigation by lectin–gold techniques on Bioacryl and Lowicryl K4M embedded specimens. Menghi G, et al. **Eur J Histochem** 1996;40(3):219–34

The silver anniversary of gold: 25 years of the colloidal gold marker system for immunocytochemistry and histochemistry. Roth J. **Histochem Cell Biol** 1996 Jul;

106(1):1–8 (90 ref.)
The use of monoclonal antibodies with colloidal gold–labeled probes in postembedding immunoelectron microscopy. Suarez CE, et al. **Mol Biotechnol** 1997 Apr;7(2):145–51 (29 ref.)
[Detection of anti–Treponema pallidum antibodies with colloidal gold immunoprobes] Burgos JD, et al. **Enferm Infecc Microbiol Clin** 1996 May;14(5):304–7 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Improved immuno double labelling for cell and structural biology. Koeck PJ, et al. **Micron** 1996 Apr;27(2):157–65 (124 ref.)

METABOLISM

Use of inductively coupled plasma–mass spectrometry for the quantitation of the binding and uptake of colloidal gold–low–density lipoprotein conjugates by cultured cells. Martin de Llano JJ, et al. **Anal Biochem** 1996 Dec 15; 243(2):210–7
Participation of biological membranes in colloidal gold transformation by Micrococcus luteus cells. Levchenko LA, et al. **Membr Cell Biol** 1997;11(1):131–5

PHARMACOKINETICS

Transcytosis of 6.6–nm gold–labeled transferrin: an ultrastructural study in cultured porcine blood–brain barrier endothelial cells. van Gelder W, et al. **Brain Res** 1997 Jan 23;746(1–2):105–16

GOLD COMPOUNDS

Sensitive in situ hybridization with catalyzed reporter deposition, streptavidin–Nanogold, and silver acetate autometallography: detection of single–copy human papillomavirus. Zehbe I, et al. **Am J Pathol** 1997 May; 150(5):1553–61
Improved gold chloride procedure for nerve staining in whole mounts of rat corneas. Jacot JL, et al. **Biotech Histochem** 1995 Nov;70(6):277–84
Use of gold–labeled ovalbumin to correlate antigen deposition and localization with tissue response. Tengowski MW, et al. **J Pharmacol Toxicol Methods** 1997 Feb; 37(1):15–21

ADVERSE EFFECTS

Gold–induced pulmonary disease: clinical features, outcome, and differentiation from rheumatoid lung disease. Tomioka R, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):1011–20 (137 ref.)
Three cases of linear lichen planus caused by dental metal compounds. Sasaki G, et al. **J Dermatol** 1996 Dec; 23(12):890–2
Agranulocytosis and bone marrow aplasia induced by second–line drugs for rheumatoid arthritis. Treatment with granulocyte colony–stimulating factor [letter; comment] Sayag–Boukris V, et al. **Rev Rhum Engl Ed** 1997 Jan; 64(1):66. Comment on: Rev Rhum Engl Ed 1995 Jul–Sep;62(7–8):477–86.

METABOLISM

Is local biotransformation the key to understanding the pharmacological activity of salicylates and gold drugs? Whitehouse MW, et al. **Inflamm Res** 1996 Dec; 45(12):579–82

PHARMACOKINETICS

Is local biotransformation the key to understanding the pharmacological activity of salicylates and gold drugs? Whitehouse MW, et al. **Inflamm Res** 1996 Dec; 45(12):579–82

PHARMACOLOGY

Biological properties of two gold(III) complexes: AuCl3(Hpm) and AuCl2(pm). Calamai P, et al. **J Inorg Biochem** 1997 May 1;66(2):103–9

TOXICITY

Localization of renal Cu–binding metallothionein induced by Au injection into rats. Saito S, et al. **Biochim Biophys Acta** 1997 Jun 6;1335(3):353–8

GOLD RADIOISOTOPES

ADVERSE EFFECTS

Radiation keratosis associated with exposure to a gold ring. Helm KF, et al. **Cutis** 1996 Jun;57(6):435–6

GOLD SALTS, ANTI–RHEUMATIC see **ANTIRHEUMATIC AGENTS, GOLD**

GOLD SODIUM THIOMALATE

ADMINISTRATION & DOSAGE

Reinstitution of gold after gold induced proteinuria. Klinkhoff AV, et al. **J Rheumatol** 1997 Jul;24(7):1277–9
[The use of low doses of sodium aurothiomalate in the treatment of rheumatoid arthritis. Current trends in basic therapy] Bianucci G, et al. **Clin Ter** 1996 Dec; 147(12):609–20 (Eng. Abstr.) **(Ita)**
[Toxic effects of the second dose of sodium aurothiomalate in childhood systemic chronic arthritis] Bustabad Reyes S, et al. **An Esp Pediatr** 1997 Apr;46(4):391–3 **(Spa)**

ADVERSE EFFECTS

Antibody deficiency associated with gold treatment: natural history and management in 22 patients. Snowden N, et al. **Ann Rheum Dis** 1996 Sep;55(9):616–21
Reinstitution of gold after gold induced proteinuria. Klinkhoff AV, et al. **J Rheumatol** 1997 Jul;24(7):1277–9
Adverse reactions to parenteral gold salts [letter] Tilelli JA, et al. **Lancet** 1997 Mar 22;349(9055):853
Obstructive sialadenitis caused by intraparotid deposits of gold salts: a case report. Zuazua JS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jun;81(6):649–51
[Gold nephropathy] Ujiie K, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):529–30 (4 ref.) **(Jpn)**
[Toxic effects of the second dose of sodium aurothiomalate in childhood systemic chronic arthritis] Bustabad Reyes S, et al. **An Esp Pediatr** 1997 Apr;46(4):391–3 **(Spa)**

IMMUNOLOGY

Clinical reactions to systemic provocation with gold sodium thiomalate in patients with contact allergy to gold. Möller H, et al. **Br J Dermatol** 1996 Sep;135(3):423–7

PHARMACOLOGY

Mechanism of inhibition of protein–tyrosine phosphatases by disodium aurothiomalate. Wang Q, et al. **Biochem Pharmacol** 1997 Sep 15;54(6):703–11
Inhibition of human B cell activation by gold compounds. Hirohata S. **Clin Immunol Immunopathol** 1996 Nov; 81(2):175–81
Differential influences of gold sodium thiomalate and bucillamine on the generation of CD14+ monocyte–lineage cells from bone marrow of rheumatoid arthritis patients. Hirohata S, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):290–5
Abnormal Tl–201 myocardial scintigraphy associated with administration of sodium aurothiomalate. Allman KC, et al. **Clin Nucl Med** 1997 Jul;22(7):479–80
The effect of sodium aurothiomalate on stimulated and non–stimulated migration by human neutrophils: the role of cyclic GMP. Elferink JG, et al. **Inflammation** 1997 Feb; 21(1):93–103
In vitro effect of gold sodium thiomalate and methotrexate on tumor necrosis factor production in normal healthy individuals and patients with rheumatoid arthritis. Yadav R, et al. **Int J Immunopharmacol** 1997 Feb;19(2):111–4

THERAPEUTIC USE

Recall of brand–name gold sodium thiomalate: are generics reliable? [letter] Hanauer LB. **Arthritis Rheum** 1997 Jan; 40(1):197–8
Comparison of intramuscular methotrexate and gold sodium thiomalate in the treatment of early erosive rheumatoid arthritis: 12 month data of a double–blind parallel study of 174 patients. Rau R, et al. **Br J Rheumatol** 1997 Mar; 36(3):345–52
Interleukin–2 receptor levels in sera of patients with rheumatoid arthritis treated with sulfasalazine, parenteral gold, or placebo. Merkel PA, et al. **J Rheumatol** 1996 Nov; 23(11):1856–61
[Radiologic healing phenomena in chronic polyarthritis treated with methotrexate or sodium aurothiomalate (published erratum appears in Z Rheumatol 1996 Sep–Oct;55(5):361)] Menninger H, et al. **Z Rheumatol** 1996 Jul–Aug;55(4):241–8 (Eng. Abstr.) **(Ger)**
[A refractory case of adult–onset Still's disease] Nishio J, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Jun; 20(3):191–8 (28 ref.) (Eng. Abstr.) **(Jpn)**
[The Tauredon treatment of rheumatoid arthritis patients: its efficacy and tolerance when used long term] Murav'ev IuV, et al. **Ter Arkh** 1996;68(5):16–8 **(Rus)**

TOXICITY

Species differences in the renal toxicity of the antiarthritic drug, gold sodium thiomalate. Cheriathundam E, et al. **J Biochem Toxicol** 1996;11(4):175–81
Changes in urinary enzyme activity and histochemical findings in experimental tubular injury induced by gold sodium thiomalate. Ogura T, et al. **J Med** 1996; 27(1–2):41–55

GOLD SODIUM THIOSULFATE

ADVERSE EFFECTS

Nitritoid reaction in a patient on ACE inhibitor and Myocrisin treatments [letter] Ching DW, et al. **Aust N Z J Med** 1997 Jun;27(3):343
Clinical reactions to systemic provocation with gold sodium thiomalate in patients with contact allergy to gold. Möller H, et al. **Br J Dermatol** 1996 Sep;135(3):423–7
Prevalence of gold contact hypersensitivity in the west of Scotland. Fleming C, et al. **Contact Dermatitis** 1997 Jun; 36(6):302–4
Contact allergy to gold sodium thiosulfate. Sabroe RA, et al. **Contact Dermatitis** 1996 May;34(5):345–8

DIAGNOSTIC USE

In vitro lymphocyte proliferation as compared to patch test using gold, palladium and nickel. Cederbrant K, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):212–7

GOLD THIOGLUCOSE see **AUROTHIOGLUCOSE**

GOLD THIOMALATE see **GOLD SODIUM THIOMALATE**

GOLDENHAR SYNDROME

Goldenhar complex: a further case with uncommon associated anomalies. Zelante L, et al. **Am J Med Genet** 1997 Apr 14;69(4):418–21
[Facio–auriculo–vertebral syndrome or oculo–auriculo–vertebral dysplasia (Goldenhar): report of 2 clinical cases] Conforto F, et al. **Pediatr Med Chir** 1996 Jul–Aug;18(4):411–3 (Eng. Abstr.) **(Ita)**
[Oculoauriculovertebral syndrome (Goldenhar syndrome)] Matsuo K. **Ryoikibetsu Shokogun Shirizu** 1996;(15):287–8 (4 ref.) **(Jpn)**

COMPLICATIONS

Syringomyelia as a complication of Goldenhar syndrome [letter; comment] Tekkök IH. **Childs Nerv Syst** 1996 Jun; 12(6):291. Comment on: Childs Nerv Syst 1995 Dec;11(12):708–11.
Goldenhar syndrome with multiple additional anomalies. Jaison SG, et al. **Indian J Ophthalmol** 1996 Mar;44(1):42–4
Abnormalities of the spine in Goldenhar's syndrome. Gibson JN, et al. **J Pediatr Orthop** 1996 May–Jun;16(3):344–9
Left retrocaval ureter associated with the Goldenhar syndrome (branchial arch syndrome). Ishitoya S, et al. **J Urol** 1997 Aug;158(2):572–3 (5 ref.)

DIAGNOSIS

Absence of the common crus in Goldenhar syndrome. Manfré L, et al. **AJNR Am J Neuroradiol** 1997 Apr; 18(4):773–5
Oculo–auriculo–vertebral spectrum and the CHARGE association: clinical evidence for a common pathogenetic mechanism. Van Meter TD, et al. **Clin Dysmorphol** 1996 Jul;5(3):187–96

GENETICS

[Familial occurrence of oculoauricolovertebral dysplasia and Franceschetti syndrome] Bestelmeyer U, et al. **HNO** 1996 Aug;44(8):452–5 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Oculo–auriculo–vertebral spectrum: cranial and vertebral malformations due to focal disturbed chondrogenesis. Goret–Nicaise M, et al. **J Craniofac Genet Dev Biol** 1997 Jan–Mar;17(1):35–42

PHYSIOPATHOLOGY

Neurodevelopmental profile of infants and toddlers with oculo–auriculo–vertebral spectrum and the correlation of prognosis with physical findings. Cohen MS, et al. **Am J Med Genet** 1995 Dec 18;60(6):535–40

ULTRASONOGRAPHY

Early prenatal diagnosis of oculoauriculovertebral dysplasia or the Goldenhar syndrome. De Catte L, et al. **Ultrasound Obstet Gynecol** 1996 Dec;8(6):422–4

GOLDFISH

Exocytotic release of vasoative intestinal polypeptide and serotonin from mucosal nerve fibres and endocrine cells of the intestine of the goldfish (Carassius auratus) and the tilapia (Oreochromis mossambicus): an ultrastructural study. Kiliaan AJ, et al. **Histochem J** 1997 Jan;29(1):45–51
Development of a cell line from skin of goldfish, Carassius auratus, and effects of ascorbic acid on collagen deposition. Lee LE, et al. **Histochem J** 1997 Jan;29(1):31–43
Electron microscopic perspectives of gill pathology induced by 1–naphthyl–N–methylcarbamate in the goldfish (Carassius auratus Linnaeus). Pfeiffer CJ, et al. **Histol Histopathol** 1997 Jul;12(3):645–53
Wortmannin blocks goldfish retinal phosphatidylinositol 3–kinase and neurite outgrowth. Lavie Y, et al. **Neurochem Res** 1997 Apr;22(4):373–8

ANATOMY & HISTOLOGY

Vasoactive intestinal polypeptide immunoreactive nerves in the gill arch of teleost fish, Carassius auratus L. de Girolamo P, et al. **Acta Histochem** 1997 Mar;99(1):13–22
The zebrafish brain: a neuroanatomical comparison with the goldfish. Rupp B, et al. **Anat Embryol (Berl)** 1996 Aug; 194(2):187–203
VIP–like immunoreactivity in the intestinal tract of fish with

different feeding habits. Andreozzi G, et al. **Eur J Histochem** 1997;41(1):57–64

Cell proliferation in fin fish regeneration. Santos Ruiz L, et al. **Int J Dev Biol** 1996;Suppl 1:183S–184S

Novel afferent terminal structure in the crista ampullaris of the goldfish, carassius auratus. Lanford PJ, et al. **J Comp Neurol** 1996 Mar 18;366(4):572–9

Cytoarchitecture of the medial octavolateralis nucleus in the goldfish, Carassius auratus. New JG, et al. **J Comp Neurol** 1996 Mar 11;366(3):534–46

Spatiotemporal coordination of rod and cone photoreceptor differentiation in goldfish retina. Stenkamp DL, et al. **J Comp Neurol** 1997 Jun 2;382(2):272–84

Differential reinnervation of retinal bipolar cell dendrites and axon terminals by dopamine interplexiform cells following dopamine depletion with 6-OHDA. Yazulla S, et al. **J Comp Neurol** 1997 Jun 16;382(4):535–45

[The ultrastructure of Mauthner's neurons in the surviving medulla oblongata of goldfish] Moshkov DA, et al. **Morfologiia** 1996;110(4):56–9 (Eng. Abstr.) **(Rus)**

[The reaction of the cytoskeleton and smooth endoplasmic reticulum of Mauthner's neurons in goldfish to partial denervation and prolonged sensory stimulation] Santalova IM, et al. **Morfologiia** 1996;110(6):72–5 (Eng. Abstr.) **(Rus)**

GENETICS

Sequence of a cDNA clone encoding a novel somatolactin in goldfish, Carassius auratus. Cheng KW, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):282–7

Molecular evolution of vertebrate VIP receptors and functional characterization of a VIP receptor from goldfish Carassius auratus. Chow BK, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):176–85

Molecular cloning of cDNA encoding two types of pituitary gonadotropin alpha subunit from the goldfish, Carassius auratus. Kobayashi M, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):372–8

Cloning and expression pattern of a second [His5Trp7Tyr8]gonadotropin-releasing hormone (chicken GnRH-II) mRNA in goldfish: evidence for two distinct genes. Lin XW, et al. **Gen Comp Endocrinol** 1997 Aug; 107(2):262–72

Molecular cloning of the cDNAs encoding two gonadotropin beta subunits (GTH-I beta and -II beta) from the goldfish, Carassius auratus. Yoshiura Y, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):379–89

Breeding value and variance component estimation from data containing inbred individuals: application to gynogenetic families in common carp (Cyprinus carpio L.). Bijma P, et al. **Genetics** 1997 Apr;145(4):1243–9

GROWTH & DEVELOPMENT

Growth rate reduction of goldfish (Carassius auratus) exposed to p,p'DDT and chlorobenzenes in diets with differing lipid contents. Sharifi M, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):665–70

IMMUNOLOGY

Deactivation of primed respiratory burst response of goldfish macrophages by leukocyte-derived macrophage activating factor(s). Neumann NF, et al. **Dev Comp Immunol** 1996 Nov-Dec;20(6):427–39

METABOLISM

Epidermal growth factor receptor binding and biological activity in the ovary of goldfish, Carassius auratus. Pati D, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1065–72

Behavioral effects of waterborne carbofuran in goldfish. Saglio P, et al. **Arch Environ Contam Toxicol** 1996 Aug; 31(2):232–8

Effect of testosterone on maturational gonadotropin subunit messenger ribonucleic acid levels in the goldfish pituitary. Huggard D, et al. **Biol Reprod** 1996 Jun;54(6):1184–91

In vitro effects of gamma-hexachlorocyclohexane on in vitro biosynthesis and metabolism of steroids in goldfish Carassius auratus. Kime DE, et al. **Ecotoxicol Environ Saf** 1996 Jul;34(2):165–73

Immunocytochemical study of endocrine cells in the gut of goldfish Carassius carassius (L.) var. auratus submitted to experimental lead intoxication. Pederzoli A, et al. **Eur J Histochem** 1996;40(4):305–14

VIP-like immunoreactive cells in the kidney of goldfish (Carassius auratus). de Girolamo P, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):34–8

Extragonadal production of 17,20-dihydroxy-4-pregnen-3-ones in vitro in cyprinid fish. Ebrahimi M, et al. **Gen Comp Endocrinol** 1996 Dec; 104(3):296–303

Immunolocalization of aromatase- and androgen receptor-positive neurons in the goldfish brain. Gelinas D, et al. **Gen Comp Endocrinol** 1997 May;106(2):155–68

Direct effects of 3,5,3'-triiodothyronine and 3,5-diiodothyronine on mitochondrial metabolism in the goldfish Carassius auratus. Leary SC, et al. **Gen Comp Endocrinol** 1996 Oct;104(1):61–6

Growth hormone-releasing hormone immunoreactivity in the brain, pituitary, and pineal of the goldfish, Carassius auratus. Rao SD, et al. **Gen Comp Endocrinol** 1996 May; 102(2):210–20

Estradiol stimulates growth hormone production in female goldfish. Zou JJ, et al. **Gen Comp Endocrinol** 1997 Apr; 106(1):102–12

Ocular melatonin rhythms in the goldfish, Carassius auratus. Iigo M, et al. **J Biol Rhythms** 1997 Apr;12(2):182–92

Molecular characterization of E587 antigen: an axonal recognition molecule expressed in the goldfish central nervous system. Giordano S, et al. **J Comp Neurol** 1997 Jan 13;377(2):286–97

Reaction-diffusion analysis of the effects of temperature on high-energy phosphate dynamics in goldfish skeletal muscle. Hubley MJ, et al. **J Exp Biol** 1997 Mar;200 (Pt 6):975–88

Nonspecific esterase activity in astrocytes of the goldfish brain. Pepperell C, et al. **J Histochem Cytochem** 1996 Oct; 44(10):1195–203

Inwardly rectifying currents in hair cells and supporting cells in the goldfish sacculus. Sugihara I, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):665–79

Ligand-binding characteristics and related structural features of the expressed goldfish kainate receptors: identification of a conserved disulfide bond and three residues important for ligand binding. Wo ZG, et al. **Mol Pharmacol** 1996 Oct;50(4):770–80

5HT1A receptor agonist differentially increases cyclic AMP concentration in intact and lesioned goldfish retina. In vitro inhibition of outgrowth by forskolin. Urbina M, et al. **Neurochem Int** 1996 Nov;29(5):453–60

Neurochemical changes in cerebellum of goldfish exposed to various temperatures. Poli A, et al. **Neurochem Res** 1997 Feb;22(2):141–9

Nitric oxide synthase distribution in the goldfish Mauthner cell. Bell TD, et al. **Neurosci Lett** 1997 May 2;226(3):187–90

The activities of superoxide dismutase, catalase and ascorbic acid content in the liver of goldfish (Carassius auratus gibelio Bloch.) exposed to cadmium. Zikič RV, et al. **Physiol Res** 1996;45(6):479–81

Characterization of the RFamide-like neuropeptides in the nervus terminalis of the goldfish (Carassius auratus). Fischer AJ, et al. **Regul Pept** 1996 Apr 23;62(2-3):73–87

Clearance of neurotransmitter from the cone synaptic cleft in goldfish retina. Vandenbranden CA, et al. **Vision Res** 1996 Dec;36(24):3859–74

PHYSIOLOGY

Transepithelial transport and cell volume control in proximal renal tubules from the teleost Carassius auratus. Kanli H, et al. **Acta Physiol Scand** 1997 Jul;160(3):267–76

A quantification of goldfish behavior by an image processing system. Kato S, et al. **Behav Brain Res** 1996 Oct; 80(1-2):51–5

Substance P facilitates memory in goldfish in an appetitively motivated learning task. Mattioli R, et al. **Behav Brain Res** 1997 Apr;85(1):117–20

Effects of telencephalic ablation on short-term memory and attention in goldfish. Ohnishi K. **Behav Brain Res** 1997 Jul; 86(2):191–9

Telencephalic ablation in goldfish impairs performance in a 'spatial constancy' problem but not in a cued one. Salas C, et al. **Behav Brain Res** 1996 Sep;79(1-2):193–200

Effect of alpha-helical-CRF[9-41] on feeding in goldfish: involvement of cortisol and catecholamines. de Pedro N, et al. **Behav Neurosci** 1997 Apr;111(2):398–403

Spatial learning and memory deficits after telencephalic ablation in goldfish trained in place and turn maze procedures. Salas C, et al. **Behav Neurosci** 1996 Oct; 110(5):965–80

The horizontal optokinetic response of the goldfish. Keng MJ, et al. **Brain Behav Evol** 1997;49(4):214–29

A novel NMDA receptor antagonist protects against N-methyl-D-aspartate- and glutamate-induced neurotoxicity in the goldfish retina. Tyan SH, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):171–9

The MPTP-induced parkinsonian syndrome in the goldfish is associated with major cell destruction in the forebrain and subtle changes in the optic tectum. Pollard HB, et al. **Exp Neurol** 1996 Nov;142(1):170–8

Role of arachidonic acid and calmodulin in mediating dopamine D1- and GnRH-stimulated growth hormone release in goldfish pituitary cells. Chang JP, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):88–101

Mechanisms of action of free arachidonic acid on ovarian steroid production in the goldfish. Mercure F, et al. **Gen Comp Endocrinol** 1996 Apr;102(1):130–40

Regulation of growth hormone secretion by amino acid neurotransmitters in the goldfish (I): Inhibition by N-methyl-D, L-aspartic acid. Trudeau VL, et al. **Gen Comp Endocrinol** 1996 Aug;103(2):129–37

Cell proliferation in fin fish regeneration. Santos Ruiz L, et al. **Int J Dev Biol** 1996;Suppl 1:183S–184S

Sexual dimorphism of galanin-like immunoreactivity in the brain and pituitary of goldfish, Carassius auratus. Rao PD, et al. **J Chem Neuroanat** 1996 Apr;10(2):119–35

Incorporation of bromodeoxyuridine in regenerating fin tissue of the goldfish Carassius auratus. Santamaría JA, et al. **J Exp Zool** 1996 Jul 1;275(4):300–7

Antibodies against Pax6 immunostain amacrine and ganglion cells and neuronal progenitors, but not rod precursors, in the normal and regenerating retina of the goldfish. Hitchcock PF, et al. **J Neurobiol** 1996 Mar;29(3):399–413

Excitatory and inhibitory vestibular pathways to the extraocular motor nuclei in goldfish. Graf W, et al. **J Neurophysiol** 1997 May;77(5):2765–79

Effect of temperature on the normal and adapted vestibulo-ocular reflex in the goldfish. McElligott JG, et al. **J Neurophysiol** 1995 Oct;74(4):1463–72

Normal and adapted visuooculomotor reflexes in goldfish. Marsh E, et al. **J Neurophysiol** 1997 Mar;77(3):1099–118

Transient and sustained depolarization of retinal ganglion cells by Ih. Tabata T, et al. **J Neurophysiol** 1996 May; 75(5):1932–43

Violation of superposition by the vestibulo-ocular reflex of the goldfish. Dow ER, et al. **Neuroreport** 1996 May 17; 7(7):1305–9

Off-oscillation in hair cell membrane is correlated with the decremental response at the hair cell-afferent fibre synapse in the goldfish sacculus. Sugihara I, et al. **Neuroreport** 1996 Oct 2;7(14):2341–6

Medium weight neurofilament mRNA in goldfish Mauthner axoplasm. Weiner OD, et al. **Neurosci Lett** 1996 Aug 2; 213(2):83–6

Tectal codification of eye movements in goldfish studied by electrical microstimulation. f Salas C, et al. **Neuroscience** 1997 May;78(1):271–88

The goldfish--a colour-constant animal. Dörr S, et al. **Perception** 1996;25(2):243–50

Demand feeding and locomotor circadian rhythms in the goldfish, Carassius auratus: dual and independent phasing. Sánchez-Vázquez FJ, et al. **Physiol Behav** 1996 Aug; 60(2):665–74

Tracer coupling among regenerated amacrine cells in the retina of the goldfish. Hitchcock PF. **Vis Neurosci** 1997 May-Jun;14(3):463–72

An analysis of the cross-correlation between ganglion cells in the retina of goldfish. Levine MW. **Vis Neurosci** 1997 Jul-Aug;14(4):731–9

The modulatory cholinergic system in goldfish tectum may be necessary for retinotopic sharpening [published erratum appears in Vis Neurosci 1996 May-Jun;13(3):597] Schmidt JT. **Vis Neurosci** 1995 Nov-Dec;12(6):1093–1103

Adaptation-dependent changes of bipolar cell terminals in fish retina: effects on overall morphology and spinule formation in Ma and Mb cells. Behrens UD, et al. **Vision Res** 1996 Dec;36(24):3901–11

Simultaneous color contrast in goldfish--a quantitative study. Dörr S, et al. **Vision Res** 1997 Jun;37(12):1581–93

The size of the horizontal cell receptive fields adapts to the stimulus in the light adapted goldfish retina. Kamermans M, et al. **Vision Res** 1996 Dec;36(24):4105–19

Reduction of red-green discrimination by dopamine D1 receptor antagonists and retinal dopamine depletion. Mora-Ferrer C, et al. **Vision Res** 1996 Dec;36(24):4035–44

Motion detection in goldfish investigated with the optomotor response is "color blind". Schaerer S, et al. **Vision Res** 1996 Dec;36(24):4025–34

Modulating wavelength discrimination in goldfish with ethambutol and stimulus intensity. Sjoerdsma T, et al. **Vision Res** 1996 Nov;36(21):3519–25

Horizontal cells feed back to cones by shifting the cone calcium-current activation range. Verweij J, et al. **Vision Res** 1996 Dec;36(24):3943–53

Modulation of horizontal cell receptive fields in the light adapted goldfish retina. Verweij J, et al. **Vision Res** 1996 Dec;36(24):3913–23

Dopaminergic control of light-adaptive synaptic plasticity and role in goldfish visual behavior. Yazulla S, et al. **Vision Res** 1996 Dec;36(24):4045–57

GOLDFISH VIRUS 1-LIKE VIRUSES see **IRIDOVIRIDAE**

GOLF

Re: Proportionate mortality study of golf course superintendents [letter; comment] Burns CJ. **Am J Ind Med** 1997 Jul;32(1):97; discussion 99. Comment on: Am J Ind Med 1996 May;29(5):501–6.

Excess mortality among golf course attendants [letter; comment] van der Gulden JW. **Am J Ind Med** 1997 Jul; 32(1):98; discussion 99. Comment on: Am J Ind Med 1996 May;29(5):501–6.

"Golf ball liver": agent orange hepatitis. Leonard C, et al. **Gut** 1997 May;40(5):687–8

Total joint replacement in active golfers. Mallon WJ, et al. **J South Orthop Assoc** 1994 Winter;3(4):295–8

Analytical design of iron golf club heads. Hartzell TA, et al. **J Sports Sci** 1996 Aug;14(4):311–9

Identifying home advantage in international tennis and golf tournaments. Nevill AM, et al. **J Sports Sci** 1997 Aug; 15(4):437–43

Golf club shaft impalement: case report of a zone III neck injury. Watson JM, et al. **J Trauma** 1996 Dec;41(6):1036–8

A good walk spoiled. Golf's links to medicine. Brunette DD. **Minn Med** 1997 Jun;80(6):25–30

Major injuries occurring during use of a golf cart. Kelly EG. **Orthopedics** 1996 Jun;19(6):519–21; discussion 521–3

Contextual interference and teaching golf skills. Brady F. **Percept Mot Skills** 1997 Feb;84(1):347–50

Differences in shot-making skills among high and low money winners on the PGA tour. Engelhardt GM. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1314

Brief aikido training versus karate and golf training and university students' scores on self-esteem, anxiety, and expression of anger. Foster YA. **Percept Mot Skills** 1997

Apr;84(2):609–10
Applying bandwidth feedback scheduling to a golf shot. Smith PJ, et al. **Res Q Exerc Sport** 1997 Sep;68(3):215–21

ECONOMICS

Economic impact of black flies (Diptera:Simuliidae) in South Carolina and development of a localized suppression program. Gray EW, et al. **J Am Mosq Control Assoc** 1996 Dec;12(4):676–8

INJURIES

A one-year prospective study on back pain among novice golfers. Burdorf A, et al. **Am J Sports Med** 1996 Sep–Oct; 24(5):659–64
Golf-related injuries seen at hospital emergency departments. Wilks J, et al. **Aust J Sci Med Sport** 1996 Jun;28(2):43–5
Penetrating eye injury caused by a golf tee [letter] Mulvihill A, et al. **Br J Ophthalmol** 1997 Jan;81(1):91
Hypothenar hammer syndrome caused by recreational sports activities and muscle anomaly in the wrist. Kreitner KF, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):356–9
Stress fracture of the ulnar diaphysis in a recreational golfer. Koskinen SK, et al. **Clin J Sport Med** 1997 Jan;7(1):63–5 (14 ref.)
Tendinitis in golf. Clancy WG Jr, et al. **Clin Sports Med** 1996 Jan;15(1):27–35 (46 ref.)
Knee injuries in golf. Guten GN. **Clin Sports Med** 1996 Jan; 15(1):111–28
Back pain in golf. Hosea TM, et al. **Clin Sports Med** 1996 Jan;15(1):37–53 (37 ref.)
Shoulder pain in golf. Jobe FW, et al. **Clin Sports Med** 1996 Jan;15(1):55–63 (15 ref.)
Prevention and treatment of elbow injuries in golf. Kohn HS. **Clin Sports Med** 1996 Jan;15(1):65–83 (14 ref.)
The frequency of golf injuries. McCarroll JR. **Clin Sports Med** 1996 Jan;15(1):1–7 (15 ref.)
Total joint replacement and golf. Mallon WJ, et al. **Clin Sports Med** 1996 Jan;15(1):179–90 (32 ref.)
Golf-induced injuries of the wrist. Murray PM, et al. **Clin Sports Med** 1996 Jan;15(1):85–109 (45 ref.)
Foot and ankle considerations in golf. Pietrocarlo TA. **Clin Sports Med** 1996 Jan;15(1):129–46 (18 ref.)
Stress fracture of the sternum in a golf player. Barbaix EJ. **Int J Sports Med** 1996 May;17(4):303–4
Acromioclavicular joint injury in competitive golfers. Mallon WJ, et al. **J South Orthop Assoc** 1995 Winter;4(4):277–82
Hypothenar hammer syndrome in sports. Müller LP, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(3):167–70 (23 ref.)
[Traumatic thrombosis of the distal ulnar artery (hypothenar hammer syndrome) in a golf player with an accessory muscle loop around Guyon's canal. Case report] Müller LP, et al. **Handchir Mikrochir Plast Chir** 1997 Jul; 29(4):183–6 (Eng. Abstr.) **(Ger)**
[Golf: a safe sport?] **Sportverletz Sportschaden** 1996 Sep; 10(3):X–XI **(Ger)**

PHYSIOLOGY

Dynamic electromyographic analysis of trunk musculature in professional golfers. Watkins RG, et al. **Am J Sports Med** 1996 Jul–Aug;24(4):535–8
Proper swing technique and biomechanics of golf. Adlington GS. **Clin Sports Med** 1996 Jan;15(1):9–26 (8 ref.)
Preventative exercises in golf: arm, leg, and back. Pink MM, et al. **Clin Sports Med** 1996 Jan;15(1):147–62 (11 ref.)
Golf for the senior player. Stover C, et al. **Clin Sports Med** 1996 Jan;15(1):163–78 (29 ref.)

PSYCHOLOGY

Psychophysiological stress in elite golfers during practice and competition. McKay JM, et al. **Aust J Sci Med Sport** 1997 Jun;29(2):55–61
Perceived uncertainty of outcome as a contributing factor in competitive state anxiety. Marchant DB, et al. **Aust J Sci Med Sport** 1997 Jun;29(2):41–6
The mind/body connection of the golf swing. Selicki FA, et al. **Clin Sports Med** 1996 Jan;15(1):191–201 (15 ref.)
Investigation of the contextual interference effect in the manipulation of the motor parameter of over-all force. Goodwin JE, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):735–43

GOLGI APPARATUS

Cytoarchitecture of the abducens nucleus of man: a Nissl and Golgi study. Bianchi R, et al. **Acta Anat (Basel)** 1996; 157(3):210–6
Flow cytometric detection of the Golgi apparatus using antibodies to glycosyltransferases. Mrkoci Felner K, et al. **Cytometry** 1997 May 1;28(1):50–7
[A writing of Camillo Golgi on the apparatus that has his name] Scarani P. **Pathologica** 1996 Jun;88(3):248 **(Ita)**

CHEMISTRY

Apical tubules in marginal cells of the differentiating stria vascularis. Sagara T, et al. **Anat Rec** 1997 Mar; 247(3):426–31
Characterization of the INT6 mammary tumor gene product. Diella F, et al. **DNA Cell Biol** 1997 Jul;16(7):839–47
Cloning and sequence analysis of the human MG160, a fibroblast growth factor and E-selectin binding membrane sialoglycoprotein of the Golgi apparatus. Mourelatos Z, et al. **DNA Cell Biol** 1996 Dec;15(12):1121–8
A tyrosine-based motif and a casein kinase II phosphorylation site regulate the intracellular trafficking of the varicella-zoster virus glycoprotein I, a protein localized in the trans-Golgi network. Alconada A, et al. **EMBO J** 1996 Nov 15;15(22):6096–110
AP-3: an adaptor-like protein complex with ubiquitous expression. Dell'Angelica EC, et al. **EMBO J** 1997 Mar 3;16(5):917–28
A novel pancreas-specific serpin (ZG-46p) localizes to the soluble and membrane fraction of the Golgi complex and the zymogen granules of acinar cells. Chen CY, et al. **Eur J Cell Biol** 1997 Jul;73(3):205–14
Localization of cellubrevin to the Golgi complex in pancreatic acinar cells. Sengupta D, et al. **Eur J Cell Biol** 1996 Aug;70(4):306–14
Identification of the secretory vesicle membrane binding region of chromogranin A. Kang YK, et al. **FEBS Lett** 1997 Mar 3;404(1):87–90
A mathematical model of sialylation of N-linked oligosaccharides in the trans-Golgi network. Monica TJ, et al. **Glycobiology** 1997 Jun;7(4):515–21
Immunocytochemical localization of the Menkes copper transport protein (ATP7A) to the trans-Golgi network. Dierick HA, et al. **Hum Mol Genet** 1997 Mar;6(3):409–16
Centractin (ARP1) associates with spectrin revealing a potential mechanism to link dynactin to intracellular organelles. Holleran EA, et al. **J Cell Biol** 1996 Dec;135(6 Pt 2):1815–29
Mannose 6-phosphate receptors regulate the formation of clathrin-coated vesicles in the TGN. Le Borgne R, et al. **J Cell Biol** 1997 Apr 21;137(2):335–45
ERS-24, a mammalian v-SNARE implicated in vesicle traffic between the ER and the Golgi. Paek I, et al. **J Cell Biol** 1997 Jun 2;137(5):1017–28
A major transmembrane protein of Golgi-derived COPI-coated vesicles involved in coatomer binding. Sohn K, et al. **J Cell Biol** 1996 Dec;135(5):1239–48
The envelope of vaccinia virus reveals an unusual phospholipid in Golgi complex membranes. Cluett EB, et al. **J Cell Sci** 1996 Aug;109 (Pt 8):2121–31
Localization of endogenous furin in cultured cell lines. Shapiro J, et al. **J Histochem Cytochem** 1997 Jan;45(1):3–12
Identification and localization of rab6, separation of rab6 from ERD2 and implications for an 'unstacked' Golgi, in Plasmodium falciparum. Van Wye J, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):107–20
Analysis of the role of p200-containing vesicles in post-Golgi traffic. Ikonen E, et al. **Mol Biol Cell** 1996 Jun;7(6):961–74

DRUG EFFECTS

Brefeldin A-induced ADP-ribosylation in the structure and function of the Golgi complex. Colanzi A, et al. **Adv Exp Med Biol** 1997;419:331–5
Brefeldin A differently affects basal and prolactin-stimulated milk protein secretion in lactating rabbit mammary epithelial cells. Pauloin A, et al. **Eur J Cell Biol** 1997 Apr; 72(4):324–36
Characterization of brefeldin A induced vesicular structures containing cycling proteins of the intermediate compartment/cis-Golgi network. Füllekrug J, et al. **FEBS Lett** 1997 Mar 3;404(1):75–81
Mammalian Cdc42 is a brefeldin A-sensitive component of the Golgi apparatus. Erickson JW, et al. **J Biol Chem** 1996 Oct 25;271(43):26850–4
Inhibition of calcium-independent mannose 6-phosphate receptor incorporation into trans-Golgi network-derived clathrin-coated vesicles by wortmannin. Gaffet P, et al. **J Biol Chem** 1997 Sep 26;272(39):24170–5
Brefeldin A effects in plant and fungal cells: something new about vesicle trafficking? Satiat-Jeunemaitre B, et al. **J Microsc** 1996 Feb;181 (Pt 2):162–77 (75 ref.)
Poliovirus infection and expression of the poliovirus protein 2B provoke the disassembly of the Golgi complex, the organelle target for the antipoliovirus drug Ro-090179. Sandoval IV, et al. **J Virol** 1997 Jun;71(6):4679–93
7-Dehydrobrefeldin A, a naturally occurring brefeldin A derivative, inhibits secretion and causes a cis-to-trans breakdown of Golgi stacks in plant cells. Driouich A, et al. **Plant Physiol** 1997 Feb;113(2):487–92

ENZYMOLOGY

Localization of human heparan glucosaminyl N-deacetylase/N-sulphotransferase to the trans-Golgi network. Humphries DE, et al. **Biochem J** 1997 Jul 15;325 (Pt 2):351–7
Purification and properties of alpha-mannosidase II from Golgi-like membranes of baculovirus-infected Spodoptera frugiperda (IPLB-SF-21AE) cells. Ren J, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):951–6
Characterization of a rat liver Golgi sulphotransferase responsible for the 6-O-sulphation of N-acetylglucosamine residues in beta-linkage to mannose: role in assembly of sialyl-galactosyl-N-acetylglucosamine 6-sulphate sequence of N-linked oligosaccharides. Spiro RG, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):209–16
Protein kinase C bound to the Golgi apparatus supports the formation of constitutive transport vesicles. Westermann P, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):651–8
Porcine alpha1,3-galactosyltransferase: tissue-specific and regulated expression of splicing isoforms. Vanhove B, et al. **Biochim Biophys Acta** 1997 Mar 27;1356(1):1–11
Biosynthesis of prothrombin: intracellular localization of the vitamin K-dependent carboxylase and the sites of gamma-carboxylation. Bristol JA, et al. **Blood** 1996 Oct 1;88(7):2585–93
Rat liver Golgi apparatus contains a protein kinase similar to the casein kinase of lactating mammary gland. Lasa M, et al. **Eur J Biochem** 1997 Feb 1;243(3):719–25
Modification of the cytoplasmic domain affects the subcellular localization of Golgi glycosyl-transferases. Yang W, et al. **Eur J Cell Biol** 1996 Sep;71(1):53–61
Golgi localization of glycosyltransferases: more questions than answers. Colley KJ. **Glycobiology** 1997 Feb;7(1):1–13 (92 ref.)
A soluble form of alpha1,3-galactosyltransferase functions within cells to galactosylate glycoproteins. Cho SK, et al. **J Biol Chem** 1997 May 23;272(21):13622–8
Beta1,4-N-acetylgalactosaminyltransferase (GM2 synthase) is released from Golgi membranes as a neuraminidase-sensitive, disulfide-bonded dimer by a cathepsin D-like protease. Jaskiewicz E, et al. **J Biol Chem** 1996 Oct 18;271(42):26395–403
Altered Golgi localization of core 2 beta-1,6-N-acetylglucosaminyltransferase leads to decreased synthesis of branched O-glycans. Skrincosky D, et al. **J Biol Chem** 1997 Sep 5;272(36):22695–702
PMR1, a Ca2+-ATPase in yeast Golgi, has properties distinct from sarco/endoplasmic reticulum and plasma membrane calcium pumps. Sorin A, et al. **J Biol Chem** 1997 Apr 11;272(15):9895–901
The isoforms of proprotein convertase PC5 are sorted to different subcellular compartments. De Bie I, et al. **J Cell Biol** 1996 Dec;135(5):1261–75
The first 35 amino acids and fatty acylation sites determine the molecular targeting of endothelial nitric oxide synthase into the Golgi region of cells: a green fluorescent protein study. Liu J, et al. **J Cell Biol** 1997 Jun 30;137(7):1525–35
Protein kinase C mu is located at the Golgi compartment. Prestle J, et al. **J Cell Biol** 1996 Sep;134(6):1401–10
Dissociation of coatomer from membranes is required for brefeldin A-induced transfer of Golgi enzymes to the endoplasmic reticulum. Scheel J, et al. **J Cell Biol** 1997 Apr 21;137(2):319–33
A mutation in a highly conserved region in brush-border sucrase-isomaltase and lysosomal alpha-glucosidase results in Golgi retention. Moolenaar CE, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):557–67
Rate of retrograde transport of cholera toxin from the plasma membrane to the Golgi apparatus and endoplasmic reticulum decreases during neuronal development. Sofer A, et al. **J Neurochem** 1996 Nov;67(5):2134–40
Golgi-associated phosphohydrolases in Trypanosoma brucei brucei. Grab DJ, et al. **Mol Biochem Parasitol** 1997 May; 86(1):127–32
The human Myt1 kinase preferentially phosphorylates Cdc2 on threonine 14 and localizes to the endoplasmic reticulum and Golgi complex. Liu F, et al. **Mol Cell Biol** 1997 Feb; 17(2):571–83
A membrane-anchored E-type endo-1,4-beta-glucanase is localized on Golgi and plasma membranes of higher plants. Brummell DA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4794–9
Phosphorylation of gastrin-related peptides: physiological casein kinase like enzyme in Golgi membranes from bovine adrenal chromaffin cells and GH3 cells. Vegh M, et al. **Regul Pept** 1997 Jan 15;68(1):37–43

IMMUNOLOGY

Molecular cloning of a novel 97-kd Golgi complex autoantigen associated with Sjögren's syndrome. Griffith KJ, et al. **Arthritis Rheum** 1997 Sep;40(9):1693–702
Intracellular and cell surface mapping of HLA DR in the presence and absence of the invariant chain. Triantafilou K, et al. **Biochem Soc Trans** 1997 May;25(2):259S
Visualization of Golgi apparatus in methacrylate embedded conifer embryo tissue using the monoclonal antibody JIM 84. Evans DE, et al. **Cell Biol Int** 1997 May;21(5):295–302
Cloning and molecular characterization of cDNA encoding a mouse male-enhanced antigen-2 (Mea-2): a putative family of the Golgi autoantigen. Kondo M, et al. **DNA Seq** 1997;7(2):71–82

METABOLISM

Role of myristoylation in membrane attachment and function of G alpha i-3 on Golgi membranes. Brand SH, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1362–9
Determinants of triacylglycerol transport from the endoplasmic reticulum to the Golgi in intestine. Kumar NS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G18–30
Selective translocation of different markers in the ante- and retrograde pathways between the Golgi apparatus and the rough endoplasmic reticulum in a hybridoma cell line. Hashimoto R, et al. **Anat Anz** 1997 Apr;179(2):105–16
Signal-mediated sorting of membrane proteins between the endoplasmic reticulum and the golgi apparatus. Teasdale RD, et al. **Ann Rev Cell Dev Biol** 1996;12:27–54 (115 ref.)
Molecular determinants of Golgi retention in the Punta Toro virus G1 protein. Matsuoka Y, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):184–9

Enzyme-specific transport of rat liver cytochrome P450 to the Golgi apparatus. Neve EP, et al. **Arch Biochem Biophys** 1996 Sep 15;333(2):459–65

Myosin I interactions with actin filaments and trans-Golgi-derived vesicles in MDCK cell monolayers. Montes de Oca G, et al. **Arch Med Res** 1997 Autumn; 28(3):321–8

Compartmental organization of ganglioside synthesis in the Golgi complex. Maccioni HJ, et al. **Biocell** 1996 Dec; 20(3):279–86 (37 ref.)

TGN38 and its orthologues: roles in post-TGN vesicle formation and maintenance of TGN morphology. Banting G, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):209–17 (48 ref.)

Protein interactions regulating vesicle transport between the endoplasmic reticulum and Golgi apparatus in mammalian cells. Hay JC, et al. **Cell** 1997 Apr 4;89(1):149–58

The vesicle docking protein p115 binds GM130, a cis-Golgi matrix protein, in a mitotically regulated manner. Nakamura N, et al. **Cell** 1997 May 2;89(3):445–55

Visualization of ER-to-Golgi transport in living cells reveals a sequential mode of action for COPII and COPI. Scales SJ, et al. **Cell** 1997 Sep 19;90(6):1137–48

Expression of a cytoplasmically epitope-tagged human Golgi glycosyltransferase in homologous cells results in mislocalization of multiple Golgi proteins. Yang W, et al. **Cell Biol Int** 1997 Apr;21(4):223–8

The fps/fes tyrosine kinase is expressed in myeloid, vascular endothelial, epithelial, and neuronal cells and is localized in the trans-golgi network. Haigh J, et al. **Cell Growth Differ** 1996 Jul;7(7):931–44

The granin family—its role in sorting and secretory granule formation. Ozawa H, et al. **Cell Struct Funct** 1995 Dec; 20(6):415–20 (47 ref.)

Reconstitution of Golgi stacks from vesiculated Golgi membranes in permeabilized cells. Acharya U, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:559–66

Factors mediating the late stages of ER-to-Golgi transport in yeast. Jiang Y, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:119–26

SNAREs involved in traffic through the Golgi complex. Pelham HR, et al. **Cold Spring Harb Symp Quant Biol** 1995; 60:105–11

Mapping a retention signal for Golgi localization of a viral spike protein complex. Pettersson RF, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:147–55

Regulation of post-Golgi vesicle production in an in vitro system. Simon JP, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:179–95

Phosphatidic acid formation by phospholipase D is required for transport from the endoplasmic reticulum to the Golgi complex. Bi K, et al. **Curr Biol** 1997 May 1;7(5):301–7

Protein phosphorylation in Golgi, endosomal, and endoplasmic reticulum membrane fractions of lacrimal gland. Dartt DA, et al. **Curr Eye Res** 1996 Feb;15(2):157–64

Imaging the intracellular trafficking and state of the AB5 quaternary structure of cholera toxin. Bastiaens PI, et al. **EMBO J** 1996 Aug 15;15(16):4246–53

The tyrosine-based lysosomal targeting signal in lamp-1 mediates sorting into Golgi-derived clathrin-coated vesicles. Höning S, et al. **EMBO J** 1996 Oct 1;15(19):5230–9

Ligand-regulated transport of the Menkes copper P-type ATPase efflux pump from the Golgi apparatus to the plasma membrane: a novel mechanism of regulated trafficking. Petris MJ, et al. **EMBO J** 1996 Nov 15; 15(22):6084–95

Endocytosis and retrograde transport of pertussis toxin to the Golgi complex as a prerequisite for cellular intoxication. el Bayâ A, et al. **Eur J Cell Biol** 1997 May;73(1):40–8

Kinesin localizes to the trans-Golgi network regardless of microtubule organization. Johnson KJ, et al. **Eur J Cell Biol** 1996 Mar;69(3):276–87

The importance of the Golgi complex for epithelial ion transport in Drosophila Malpighian tubules, studied by electron microscopy, cytochemistry and X-ray microanalysis. Wessing A, et al. **Eur J Cell Biol** 1996 Feb; 69(2):116–27

Monensin-induced redistribution of enzymes and products from Golgi stacks to swollen vesicles in plant cells. Zhang GF, et al. **Eur J Cell Biol** 1996 Dec;71(4):332–40

Rapid movement of newly synthesized chicken apolipoprotein AI to trans-Golgi network and its secretion in Madin-Darby canine kidney cells. Banerjee D, et al. **Exp Cell Res** 1997 Sep 15;235(2):334–44

Endoplasmic reticulum to Golgi trafficking in multinucleated skeletal muscle fibers. Rahkila P, et al. **Exp Cell Res** 1997 Aug 1;234(2):452–64

Characterization of brefeldin A induced vesicular structures containing cycling proteins of the intermediate compartment/cis-Golgi network. Füllekrug J, et al. **FEBS Lett** 1997 Mar 3;404(1):75–81

High-affinity binding of the yeast cis-Golgi t-SNARE, Sed5p, to wild-type and mutant Sly1p, a modulator of transport vesicle docking. Grabowski R, et al. **FEBS Lett** 1997 Jul 14;411(2–3):169–72

Mammalian homologues of yeast vacuolar protein sorting (vps) genes implicated in Golgi-to-lysosome trafficking. Pevsner J, et al. **Gene** 1996 Dec 12;183(1–2):7–14

New mutants of Saccharomyces cerevisiae affected in the transport of proteins from the endoplasmic reticulum to the Golgi complex. Wuestehube LJ, et al. **Genetics** 1996 Feb;142(2):393–406

Transporters of nucleotide sugars, nucleotide sulfate and ATP in the Golgi apparatus membrane: where next? Hirschberg CB. **Glycobiology** 1997 Mar;7(2):169–71 (40 ref.)

Protein glycosylation in the endoplasmic reticulum and the Golgi apparatus and cell type-specificity of cell surface glycoconjugate expression: analysis by the protein A–gold and lectin–gold techniques. Roth J. **Histochem Cell Biol** 1996 Jul;106(1):79–92 (130 ref.)

On the mechanism of the transport through Golgi apparatus. Dolapchieva S. **Histol Histopathol** 1997 Jul;12(3):735–8

The HIV-1 Nef protein acts as a connector with sorting pathways in the Golgi and at the plasma membrane. Mangasarian A, et al. **Immunity** 1997 Jan;6(1):67–77

A mouse cytomegalovirus glycoprotein retains MHC class I complexes in the ERGIC/cis-Golgi compartments. Ziegler H, et al. **Immunity** 1997 Jan;6(1):57–66

Expression of the cholera toxin B subunit in the Golgi apparatus of Swiss 3T3 cells inhibits DNA synthesis induced by basic fibroblast growth factor. Hashimoto Y, et al. **J Biochem (Tokyo)** 1996 May;119(5):985–90

Inhibition of vesicle-mediated protein transport by nordihydroguaiaretic acid. Tagaya M, et al. **J Biochem (Tokyo)** 1996 May;119(5):863–9

Erv25p, a component of COPII-coated vesicles, forms a complex with Emp24p that is required for efficient endoplasmic reticulum to Golgi transport. Belden WJ, et al. **J Biol Chem** 1996 Oct 25;271(43):26939–46

Functional expression of the murine Golgi CMP-sialic acid transporter in saccharomyces cerevisiae. Berninsone P, et al. **J Biol Chem** 1997 May 9;272(19):12616–9

Post-translational processing in the Golgi plays a critical role in the trafficking of the luteinizing hormone/human chorionic gonadotropin receptor to the cell surface. Bradbury FA, et al. **J Biol Chem** 1997 Feb 28;272(9):5921–6

Targeting of SCG10 to the area of the Golgi complex is mediated by its NH2-terminal region. Di Paolo G, et al. **J Biol Chem** 1997 Feb 21;272(8):5175–82

Functional protein prenylation is required for the brefeldin A-dependent retrograde transport from the Golgi apparatus to the endoplasmic reticulum. Ivessa NE, et al. **J Biol Chem** 1997 Aug 15;272(33):20828–34

Arfaptin 1, a putative cytosolic target protein of ADP-ribosylation factor, is recruited to Golgi membranes. Kanoh H, et al. **J Biol Chem** 1997 Feb 28;272(9):5421–9

Comparative activity of ADP-ribosylation factor family members in the early steps of coated vesicle formation on rat liver Golgi membranes. Liang JO, et al. **J Biol Chem** 1997 Feb 14;272(7):4141–8

Golgi GDP-mannose uptake requires Leishmania LPG2. A member of a eukaryotic family of putative nucleotide-sugar transporters. Ma D, et al. **J Biol Chem** 1997 Feb 7; 272(6):3799–805

Ykt6p, a prenylated SNARE essential for endoplasmic reticulum-Golgi transport. McNew JA, et al. **J Biol Chem** 1997 Jul 11;272(28):17776–83

Molecular characterization of GCP170, a 170-kDa protein associated with the cytoplasmic face of the Golgi membrane. Misumi Y, et al. **J Biol Chem** 1997 Sep 19; 272(38):23851–8

Proteolytic processing of sulfated secretogranin II in the trans-Golgi network of GH3B6 prolactin cells. Muller L, et al. **J Biol Chem** 1997 Feb 7;272(6):3669–73

A regulatory role for cAMP-dependent protein kinase in protein traffic along the exocytic route. Muñiz M, et al. **J Biol Chem** 1996 Nov 29;271(48):30935–41

Expression of major histocompatibility complex class II molecules in HeLa cells promotes the recruitment of AP-1 Golgi-specific assembly proteins on Golgi membranes. Salamero J, et al. **J Biol Chem** 1996 Nov 29; 271(48):30318–21

Cytosolic and membrane-associated proteins involved in the recruitment of AP-1 adaptors onto the trans-Golgi network. Seaman MNJ, et al. **J Biol Chem** 1996 Oct 11; 271(41):25446–51

Role of the Golgi apparatus in the phosphorylation of apolipoprotein B. Swift LL. **J Biol Chem** 1996 Dec 6; 271(49):31491–5

Identification of a mammalian Golgi Sec1p-like protein, mVps45. Tellam JT, et al. **J Biol Chem** 1997 Mar 7; 272(10):6187–93

Rab2 is essential for the maturation of pre-Golgi intermediates. Tisdale EJ, et al. **J Biol Chem** 1996 Nov 15;271(46):29372–9

Decreased endosomal delivery of major histocompatibility complex class II-invariant chain complexes in dynamin-deficient cells. Wang K, et al. **J Biol Chem** 1997 Jul 4;272(27):17055–60

A point mutation causes mistargeting of Golgi GlcNAc-TV in the Lec4A Chinese hamster ovary glycosylation mutant. Weinstein J, et al. **J Biol Chem** 1996 Nov 1;271(44):27462–9

Formation of nascent secretory vesicles from the trans-Golgi network of endocrine cells is inhibited by tyrosine kinase and phosphatase inhibitors. Austin CD, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1471–83

Membrane dynamics at the endoplasmic reticulum-Golgi interface. Bannykh SI, et al. **J Cell Biol** 1997 Jul 14; 138(1):1–4 (40 ref.)

Two separate signals act independently to localize a yeast late Golgi membrane protein through a combination of retrieval and retention. Bryant NJ, et al. **J Cell Biol** 1997 Jan 27;136(2):287–97

Phospholipase D stimulates release of nascent secretory vesicles from the trans-Golgi network. Chen YG, et al. **J Cell Biol** 1997 Aug 11;138(3):495–504

A novel Rab9 effector required for endosome-to-TGN transport. Díaz E, et al. **J Cell Biol** 1997 Jul 28; 138(2):283–90

Two new Ypt GTPases are required for exit from the yeast trans-Golgi compartment. Jedd G, et al. **J Cell Biol** 1997 May 5;137(3):563–80

Variations on the intracellular transport theme: maturing cisternae and trafficking tubules. Mironov AA, et al. **J Cell Biol** 1997 Aug 11;138(3):481–4 (39 ref.)

Myosin II is involved in the production of constitutive transport vesicles from the TGN. Müsch A, et al. **J Cell Biol** 1997 Jul 28;138(2):291–306

ERS-24, a mammalian v-SNARE implicated in vesicle traffic between the ER and the Golgi. Paek I, et al. **J Cell Biol** 1997 Jun 2;137(5):1017–28

The membrane protein alkaline phosphatase is delivered to the vacuole by a route that is distinct from the VPS-dependent pathway. Piper RC, et al. **J Cell Biol** 1997 Aug 11;138(3):531–45

Endosome to Golgi retrieval of the vacuolar protein sorting receptor, Vps10p, requires the function of the VPS29, VPS30, and VPS35 gene products. Seaman MN, et al. **J Cell Biol** 1997 Apr 7;137(1):79–92

The production of post-Golgi vesicles requires a protein kinase C-like molecule, but not its phosphorylating activity. Simon JP, et al. **J Cell Biol** 1996 Oct;135(2):355–70

p53/58 binds COPI and is required for selective transport through the early secretory pathway. Tisdale EJ, et al. **J Cell Biol** 1997 May 5;137(3):581–93

A transfected sialyltransferase that is elevated in breast cancer and localizes to the medial/trans-Golgi apparatus inhibits the development of core-2-based O-glycans. Whitehouse C, et al. **J Cell Biol** 1997 Jun 16;137(6):1229–41

Golgi membrane skeleton: identification, localization and oligomerization of a 195 kDa ankyrin isoform associated with the Golgi complex. Beck KA, et al. **J Cell Sci** 1997 May;110 (Pt 10):1239–49

The mammalian ARF-like protein 1 (Arl1) is associated with the Golgi complex. Lowe SL, et al. **J Cell Sci** 1996 Jan; 109 (Pt 1):209–20

Cell-free reconstitution of the transport of viral glycoproteins from the TGN to the basolateral plasma membrane of MDCK cells. Mayer A, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1667–76

The role of the membrane-spanning domain and stalk region of N-acetylglucosaminyltransferase I in retention, kin recognition and structural maintenance of the Golgi apparatus in HeLa cells. Nilsson T, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1975–89

The yeast VPS5/GRD2 gene encodes a sorting nexin-1-like protein required for localizing membrane proteins to the late Golgi. Nothwehr SF, et al. **J Cell Sci** 1997 May;110 (Pt 9):1063–72

GLUT4 in cultured skeletal myotubes is segregated from the transferrin receptor and stored in vesicles associated with TGN. Ralston E, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):2967–78

The E-selectin-ligand ESL-1 is located in the Golgi as well as on microvilli on the cell surface. Steegmaier M, et al. **J Cell Sci** 1997 Mar;110 (Pt 6):687–94

Transport of sphingomyelin to the cell surface is inhibited by brefeldin A and in mitosis, where C6-NBD-sphingomyelin is translocated across the plasma membrane by a multidrug transporter activity. van Helvoort A, et al. **J Cell Sci** 1997 Jan;110 (Pt 1):75–83

Evidence that binding site occupancy is necessary and sufficient for effective major histocompatibility complex (MHC) class II transport through the secretory pathway redefines the primary function of class II-associated invariant chain peptides (CLIP). Zhong G, et al. **J Exp Med** 1996 Nov 1;184(5):2061–6

The internalized interleukin-1 activation complex in fibroblasts localizes to the Golgi apparatus. Praast G, et al. **J Inflamm** 1995–96;46(3):125–38

Apolipoprotein-mediated cellular cholesterol and phospholipid efflux depend on a functional Golgi apparatus. Mendez AJ, et al. **J Lipid Res** 1996 Dec;37(12):2510–24

Traffic control of completely assembled MHC class I molecules beyond the endoplasmic reticulum. Joyce S. **J Mol Biol** 1997 Mar 14;266(5):993–1001

GT3 synthesis in the proximal Golgi occurs in a compartment different from those for GD3 and GM3 synthesis. Rosales Fritz VM, et al. **J Neurochem** 1996 Oct;67(4):1393–400

A reliable method for Golgi staining of retina and brain slices. Angulo A, et al. **J Neurosci Methods** 1996 May;66(1):55–9

Metabolites of the beta-amyloid precursor protein generated by beta-secretase localise to the trans-Golgi network and late endosome in 293 cells. Stephens DJ, et al. **J Neurosci Res** 1996 Oct 15;46(2):211–25

The human cytomegalovirus UL37 immediate-early regulatory protein is an integral membrane N-glycoprotein which traffics through the endoplasmic reticulum and Golgi apparatus. Al-Barazi HO, et al. **J Virol** 1996 Oct; 70(10):7198–208

A novel Sec18p/NSF-dependent complex required for Golgi-to-endosome transport in yeast. Burd CG, et al. **Mol Biol Cell** 1997 Jun;8(6):1089–104

Uptake and incorporation of an epitope-tagged sialic acid donor into intact rat liver Golgi compartments. Functional

localization of sialyltransferase overlaps with beta-galactosyltransferase but not with sialic acid O-acetyltransferase. Chammas R, et al. **Mol Biol Cell** 1996 Nov;7(11):1691-707

Genes that control the fidelity of endoplasmic reticulum to Golgi transport identified as suppressors of vesicle budding mutations. Elrod-Erickson MJ, et al. **Mol Biol Cell** 1996 Jul;7(7):1043-58

Sequence and overexpression of GPP130/GIMPc: evidence for saturable pH-sensitive targeting of a type II early Golgi membrane protein. Linstedt AD, et al. **Mol Biol Cell** 1997 Jun;8(6):1073-87

Phosphatidylinositol 3-kinase is not required for recycling of mannose 6-phosphate receptors from late endosomes to the trans-Golgi network. Nakajima Y, et al. **Mol Biol Cell** 1997 Apr;8(4):577-82

Mss4 does not function as an exchange factor for Rab in endoplasmic reticulum to Golgi transport. Nuoffer C, et al. **Mol Biol Cell** 1997 Jul;8(7):1305-16

Pep7p provides a novel protein that functions in vesicle-mediated transport between the yeast Golgi and endosome. Webb GC, et al. **Mol Biol Cell** 1997 May; 8(5):871-95

Suppression of oxidative damage by Saccharomyces cerevisiae ATX2, which encodes a manganese-trafficking protein that localizes to Golgi-like vesicles. Lin SJ, et al. **Mol Cell Biol** 1996 Nov;16(11):6303-12

Allele-specific suppression of a defective trans-Golgi network (TGN) localization signal in Kex2p identifies three genes involved in localization of TGN transmembrane proteins. Redding K, et al. **Mol Cell Biol** 1996 Nov; 16(11):6208-17

The mammalian homolog of yeast Sec13p is enriched in the intermediate compartment and is essential for protein transport from the endoplasmic reticulum to the Golgi apparatus. Tang BL, et al. **Mol Cell Biol** 1997 Jan; 17(1):256-66

Essential role for diacylglycerol in protein transport from the yeast Golgi complex [see comments] Kearns BG, et al. **Nature** 1997 May 1;387(6628):101-5. Comment in: Nature 1997 May 1;387(6628):21-2.

Protein transport. Greasing the Golgi budding machine [news; comment] Martin TF. **Nature** 1997 May 1; 387(6628):21-2. Comment on: Nature 1997 May 1;387(6628):101-5.

Membrane transport. Green light for Golgi traffic [news; comment] Pelham HR. **Nature** 1997 Sep 4;389(6646):17, 19. Comment on: Nature 1997 Sep 4;389(6646):81-5.

ER-to-Golgi transport visualized in living cells [see comments] Presley JF, et al. **Nature** 1997 Sep 4; 389(6646):81-5. Comment in: Nature 1997 Sep 4;389(6646):17, 19.

Compartmental organization of the synthesis of GM3, GD3, and GM2 in golgi membranes from neural retina cells. Maxzúd MK, et al. **Neurochem Res** 1997 Apr;22(4):455-61

Co-localization of the TSC2 product tuberin with its target Rap1 in the Golgi apparatus. Wienecke R, et al. **Oncogene** 1996 Sep 5;13(5):913-23

Biological role of tyrosinase related protein and its biosynthesis and transport from TGN to stage I melanosome, late endosome, through gene transfection study. Jimbow K, et al. **Pigment Cell Res** 1997 Aug; 10(4):206-13 (34 ref.)

The syntaxin homolog AtPEP12p resides on a late post-Golgi compartment in plants. da Silva Conceição A, et al. **Plant Cell** 1997 Apr;9(4):571-82

Influence of LEPK on biochemical activity and morphology in situ of liver Golgi apparatus from control and streptozotocin-diabetic rats. Kordowiak AM, et al. **Pol J Pathol** 1997;48(2):87-93

Intracellular activation of gelatinase A (72-kDa type IV collagenase) by normal fibroblasts. Lee AY, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4424-9

GTP-bound forms of rab6 induce the redistribution of Golgi proteins into the endoplasmic reticulum. Martinez O, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1828-33

Retrograde transport of mutant ricin to the endoplasmic reticulum with subsequent translocation to cytosol. Rapak A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3783-8

Generation of Alzheimer beta-amyloid protein in the trans-Golgi network in the apparent absence of vesicle formation. Xu H, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3748-52

Transporters of nucleotides and nucleotide derivatives in the endoplasmic reticulum and Golgi apparatus. Hirschberg CB. **Soc Gen Physiol Ser** 1996;51:105-20 (68 ref.)

Role of cytoplasmic motors in post-Golgi vesicular traffic. Müsch A, et al. **Soc Gen Physiol Ser** 1997;52:55-67 (58 ref.)

Roles of the membrane cytoskeleton in protein sorting. Nelson WJ, et al. **Soc Gen Physiol Ser** 1997;52:47-54 (53 ref.)

Transporters of nucleotide sugars, nucleotide sulfate and ATP in the Golgi apparatus. Abeijon C, et al. **Trends Biochem Sci** 1997 Jun;22(6):203-7 (30 ref.)

MICROBIOLOGY

A retention signal necessary and sufficient for Golgi localization maps to the cytoplasmic tail of a Bunyaviridae (Uukuniemi virus) membrane glycoprotein. Andersson AM, et al. **J Virol** 1997 Jun;71(6):4717-27

PHYSIOLOGY

Golgi-canalicular reticulum system in ion transporting fibrocytes and outer sulcus epithelium of gerbil cochlea. Spicer SS, et al. **Anat Rec** 1997 Sep;249(1):117-27

Mechanism of formation of post Golgi vesicles from TGN membranes: Arf-dependent coat assembly and PKC-regulated vesicle scission. Sabatini DD, et al. **Biocell** 1996 Dec;20(3):287-300 (104 ref.)

Mitotic disassembly and reassembly of the Golgi apparatus. Levine TP, et al. **Cold Spring Harb Symp Quant Biol** 1995; 60:549-57 (43 ref.)

Molecules and vesicle coats involved in the budding of exocytotic vesicles from the trans-Golgi network. Wang J, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:139-46

Vesicle traffic: get your coat! Schimmöller F, et al. **Curr Biol** 1997 Apr 1;7(4):R235-7 (19 ref.)

Coatomer (COPI)-coated vesicles: role in intracellular transport and protein sorting. Cosson P, et al. **Curr Opin Cell Biol** 1997 Aug;9(4):484-7 (29 ref.)

The diversity of Rab proteins in vesicle transport. Novick P, et al. **Curr Opin Cell Biol** 1997 Aug;9(4):496-504 (78 ref.)

The trans-Golgi network: a late secretory sorting station. Traub LM, et al. **Curr Opin Cell Biol** 1997 Aug;9(4):527-33 (50 ref.)

Two GTPase isoforms, Ypt31p and Ypt32p, are essential for Golgi function in yeast. Benli M, et al. **EMBO J** 1996 Dec 2;15(23):6460-75

Novel Golgi to vacuole delivery pathway in yeast: identification of a sorting determinant and required transport component. Cowles CR, et al. **EMBO J** 1997 May 15;16(10):2769-82

Kes1p shares homology with human oxysterol binding protein and participates in a novel regulatory pathway for yeast Golgi-derived transport vesicle biogenesis. Fang M, et al. **EMBO J** 1996 Dec 2;15(23):6447-59

The VPS8 gene is required for localization and trafficking of the CPY sorting receptor in Saccharomyces cerevisiae. Chen YJ, et al. **Eur J Cell Biol** 1996 Aug;70(4):289-97

A cisternal maturation mechanism can explain the asymmetry of the Golgi stack. Glick BS, et al. **FEBS Lett** 1997 Sep 8;414(2):177-81 (43 ref.)

Possible involvement of heterotrimeric G proteins in the organization of the Golgi apparatus. Yamaguchi T, et al. **J Biol Chem** 1997 Oct 3;272(40):25260-6

COPI-independent anterograde transport: cargo-selective ER to Golgi protein transport in yeast COPI mutants. Gaynor EC, et al. **J Cell Biol** 1997 Feb 24;136(4):789-802

Transferrin receptor containing the SDYQRL motif of TGN38 causes a reorganization of the recycling compartment but is not targeted to the TGN. Johnson AO, et al. **J Cell Biol** 1996 Dec;135(6 Pt 2):1749-62

Dynamic measurement of the pH of the Golgi complex in living cells using retrograde transport of the verotoxin receptor. Kim JH, et al. **J Cell Biol** 1996 Sep;134(6):1387-99

Partitioning of the Golgi apparatus during mitosis in living HeLa cells. Shima DT, et al. **J Cell Biol** 1997 Jun 16; 137(6):1211-28

Role of the Golgi complex in adrenocortical steroidogenesis. Cheng B, et al. **Microsc Res Tech** 1997 Mar 15;36(6):503-9 (47 ref.)

Syntaxin 6 functions in trans-Golgi network vesicle trafficking. Bock JB, et al. **Mol Biol Cell** 1997 Jul; 8(7):1261-71

Analysis of the role of p200-containing vesicles in post-Golgi traffic. Ikonen E, et al. **Mol Biol Cell** 1996 Jun;7(6):961-74

Intracellular transport of pancreatic enzymes. Cook LJ, et al. **Scand J Gastroenterol Suppl** 1996;219:1-5 (16 ref.)

ULTRASTRUCTURE

Golgi apparatus and intraneuronal inclusions of anterior horn cells in amyotrophic lateral sclerosis: an immunohistochemical study. Matsumoto S, et al. **Acta Neuropathol (Berl)** 1996;91(6):603-7

Neuronal organization of the optic tectum in the hagfish, Eptatretus burgeri: a Golgi study. Iwahori N, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):271-9

Modifications of the Golgi apparatus in Saccharomyces cerevisiae lacking microtubules. Rambourg A, et al. **Anat Rec** 1996 Oct;246(2):162-8

Time-course study of the Golgi-lysosome region of rat hepatocytes during early acute phase response to inflammation. Thorne-Tjomsland G, et al. **Anat Rec** 1996 Jan;244(1):15-27

Golgi membrane vesicles in HeLa mitotic cells are identified with monoclonal antibody made against Golgi cisternal membrane protein p138. Asada S, et al. **Cell Struct Funct** 1995 Dec;20(6):445-53

Process of dispersion and fragmentation of Golgi complex by microtubule bundles formed in taxol treated HeLa cells. Hoshino H, et al. **Cell Struct Funct** 1997 Jun;22(3):325-34

Reconstitution of Golgi stacks from vesiculated Golgi membranes in permeabilized cells. Acharya U, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:559-66

Mitotic disassembly and reassembly of the Golgi apparatus. Levine TP, et al. **Cold Spring Harb Symp Quant Biol** 1995; 60:549-57 (43 ref.)

Identification of two types of beta-COP vesicles in the Golgi complex of rat spermatids. Martínez-Menárguez JA, et al. **Eur J Cell Biol** 1996 Oct;71(2):137-43

The significance of lamellated structure of Golgi apparatus in parotid acinar cells. Yamashina S, et al. **Eur J Morphol** 1996 Aug;34(3):229-32 (11 ref.)

Characterization of cholesterol-free insect cells infectible by baculoviruses: effects of cholesterol on VSV fusion and infectivity and on cytotoxicity induced by influenza M2 protein. Cleverley DZ, et al. **Exp Cell Res** 1997 Jun 15; 233(2):288-96

A cisternal maturation mechanism can explain the asymmetry of the Golgi stack. Glick BS, et al. **FEBS Lett** 1997 Sep 8;414(2):177-81 (43 ref.)

Insulin-like effects on liver Golgi membrane preparations of bis(oxalato)oxovanadate(IV) complex ion, a new vanadate compound. Kordowiak AM, et al. **Horm Metab Res** 1997 Mar;29(3):101-5

Polyamine-dependent alterations in the structure of microfilaments, Golgi apparatus, endoplasmic reticulum, and proteoglycan synthesis in BHK cells. Parkkinen JJ, et al. **J Cell Biochem** 1997 Aug 1;66(2):165-74

Connexin46 is retained as monomers in a trans-Golgi compartment of osteoblastic cells. Koval M, et al. **J Cell Biol** 1997 May 19;137(4):847-57

Sec2p mediates nucleotide exchange on Sec4p and is involved in polarized delivery of post-Golgi vesicles. Walch-Solimena C, et al. **J Cell Biol** 1997 Jun 30; 137(7):1495-509

Golgi membrane skeleton: identification, localization and oligomerization of a 195 kDa ankyrin isoform associated with the Golgi complex. Beck KA, et al. **J Cell Sci** 1997 May;110 (Pt 10):1239-49

p230 is associated with vesicles budding from the trans-Golgi network. Gleeson PA, et al. **J Cell Sci** 1996 Dec;109 (Pt 12):2811-21

Yeast actin cytoskeleton mutants accumulate a new class of Golgi-derived secretary vesicle. Mulholland J, et al. **Mol Biol Cell** 1997 Aug;8(8):1481-99

High-resolution calcium mapping of the endoplasmic reticulum-Golgi-exocytic membrane system. Electron energy loss imaging analysis of quick frozen-freeze dried PC12 cells. Pezzati R, et al. **Mol Biol Cell** 1997 Aug; 8(8):1501-12

Interleaflet clear space is reduced in the membrane of COP I and COP II-coated buds/vesicles. Orci L, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8968-70

VIROLOGY

Immunocytochemical analysis of Uukuniemi virus budding compartments: role of the intermediate compartment and the Golgi stack in virus maturation. Jäntti J, et al. **J Virol** 1997 Feb;71(2):1162-72

Targeting of glycoprotein I (gE) of varicella-zoster virus to the trans-Golgi network by an AYRV sequence and an acidic amino acid-rich patch in the cytosolic domain of the molecule. Zhu Z, et al. **J Virol** 1996 Oct; 70(10):6563-75

GOLGI TENDON ORGANS see **MECHANORECEPTORS**

GOLTZ SYNDROME see **FOCAL DERMAL HYPOPLASIA**

GONADAL DYSGENESIS

CHEMICALLY INDUCED

[Remote effect of Tripterygium wilfordii and chlorambucil on the function of sex glands of child with nephropathy] Zhang WZ, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Feb; 16(2):113-4 **(Chi)**

COMPLICATIONS

Gonadal dysgenesis: fertility options. Loutradis D, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:389-94

Leukodystrophy in patients with ovarian dysgenesis. Schiffmann R, et al. **Ann Neurol** 1997 May;41(5):654-61

Ovarian epithelial tumour in gonadal dysgenesis. A case report and literature review. Lam SK, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):106-9

DIAGNOSIS

Intrascrotal and testicular solid masses in childhood. Kiss A, et al. **Int Urol Nephrol** 1996;28(6):787-92

[Molecular sex determination. Significance in the diagnosis of gonadal pathologies] Copeili S, et al. **Medicina (B Aires)** 1995;55(6):705-11 (Eng. Abstr.) **(Spa)**

[Gonadal dysgenesis: diagnosis and therapeutic perspectives] Youlton R. **Rev Med Chil** 1996 Jan;124(1):103-8 (34 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

[The mixed gonadal dysgenesis. Diagnostic criteria and surgical treatment] Blanco JA, et al. **Cir Pediatr** 1997 Jan; 10(1):34-7 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Penelope, a new family of transposable elements and its possible role in hybrid dysgenesis in Drosophila virilis. Evgen'ev MB, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):196-201

GONADAL DYSGENESIS

GENETICS

XY gonadal dysgenesis associated with a multiple pterygium syndrome phenotype. Angle B, et al. **Am J Med Genet** 1997 Jan 10;68(1):7–11

XX-agonadism in a fetus with multiple dysraphic lesions: a new syndrome. Kennerknecht I, et al. **Am J Med Genet** 1997 Jun 27;70(4):413–4

An infant with a mosaic 45,X/46,X,psu dic(Y)(pter–>q11.2::q11.2–>pter) karyotype and mixed gonadal dysgenesis studied for extent of mosaicism in the gonads. Reddy KS, et al. **Am J Med Genet** 1996 Dec 30; 66(4):441–4

Phenotypic diversity in siblings with partial androgen insensitivity syndrome. Evans BA, et al. **Arch Dis Child** 1997 Jun;76(6):529–31 (27 ref.)

Distribution of marker-Y chromosome containing cells in different tissues of a Turner mosaic patient with mixed gonadal dysgenesis. Petrusevska R, et al. **Clin Genet** 1996 May;49(5):261–6

Analysis of the testis-determining gene SRY in patients with XY gonadal dysgenesis. Tsutsumi O, et al. **Horm Res** 1996; 46 Suppl 1:6–10

A novel postzygotic nonsense mutation in SRY in familial XY gonadal dysgenesis. Bilbao JR, et al. **Hum Genet** 1996 Apr;97(4):537–9

Abnormal gonadal differentiation in two subjects with ambiguous genitalia, Mullerian structures, and normally developed testes: evidence for a defect in gonadal ridge development. Fuqua JS, et al. **Hum Genet** 1996 Apr; 97(4):506–11

Mutations and sequence variants in the testis-determining region of the Y chromosome in individuals with a 46,XY female phenotype. Veitia R, et al. **Hum Genet** 1997 May; 99(5):648–52

Testis-determining factor and gonadal dysgenesis. Shima H, et al. **Int J Urol** 1997 Jan;4(1):3–7 (30 ref.)

[Introduction to molecular biology and its application to pediatrics (5): clinical cases. Genetic alterations in XY gonadal dysgenesis and in myotonic dystrophy] Castaño L, et al. **An Esp Pediatr** 1997 May;46(5):513–8 **(Spa)**

PATHOLOGY

The vanishing testis: anatomical and histological findings. Merry C, et al. **Eur Urol** 1997;31(1):65–7

Incomplete gonadal dysgenesis. Sheth FJ, et al. **Urol Int** 1996; 56(1):57–60

PHYSIOPATHOLOGY

Gonadal dysgenesis: associations between clinical features and sex of rearing. Cameron FJ, et al. **Endocr J** 1997 Feb; 44(1):95–104

SURGERY

Laparoscopic evaluation and management of a child with ambiguous genitalia, ectopic spleen, and Meckel's diverticulum. Martin TV, et al. **Tech Urol** 1997 Spring; 3(1):49–50

[The mixed gonadal dysgenesis. Diagnostic criteria and surgical treatment] Blanco JA, et al. **Cir Pediatr** 1997 Jan; 10(1):34–7 (Eng. Abstr.) **(Spa)**

VETERINARY

Intersexual phenotypes and sex chromosome complements of five South American opossums (Monodelphis domestica). Robinson ES, et al. **Lab Anim Sci** 1996 Oct; 46(5):555–60

Pituitary and ovarian response to PMSG and GnRH of a gonadal dysgenetic buffalo. Singh C, et al. **Vet Rec** 1997 May 17;140(20):533

GONADAL DYSGENESIS, 45,X see **TURNER'S SYNDROME**

GONADAL DYSGENESIS, XO see **TURNER'S SYNDROME**

GONADAL DYSGENESIS, 46,XY

Sex reversal in a child with the karyotype 46,XY, dup (1)(p22.3p32.3). Wieacker P, et al. **Clin Genet** 1996 May; 49(5):271–3

Deletions of distal 9p associated with 46,XY male to female sex reversal: definition of the breakpoints at 9p23.3–p24.1. Veitia R, et al. **Genomics** 1997 Apr 15;41(2):271–4

Two successful pregnancies in a 46,XY patient. Kan AK, et al. **Hum Reprod** 1997 Jul;12(7):1434–5

COMPLICATIONS

Bilateral dysgerminoma and gonadoblastoma in association with XY gonadal dysgenesis. Llewelyn RW. **Clin Exp Obstet Gynecol** 1997;24(1):14

Severe pulmonary hypertension: a feature of Swyer-James syndrome? Fernández Fabrellas E, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):140–1

DRUG THERAPY

Correlation of clinical, endocrine and molecular abnormalities with in vivo responses to high-dose testosterone in patients with partial androgen insensitivity syndrome. Tincello DG, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):497–506

GENETICS

Gonadoblastomas in 45,X/46,XY mosaicism: analysis of Y chromosome distribution by fluorescence in situ hybridization. Iezzoni JC, et al. **Am J Clin Pathol** 1997 Aug;108(2):197–201

Characterization by fluorescence and electron microscopy in situ hybridization of a double Y isochromosome. Fetni R, et al. **Am J Med Genet** 1996 Jun 14;63(3):454–7

Cytogenetic and molecular studies of a familial paracentric inversion of Y chromosome present in a patient with ambiguous genitalia. Liou JD, et al. **Am J Med Genet** 1997 May 16;70(2):134–7

Paternal somatic and germ-line mosaicism for a sex-determining region on Y (SRY) missense mutation leading to recurrent 46,XY sex reversal. Hines RS, et al. **Fertil Steril** 1997 Apr;67(4):675–9

Linkage analysis of a kindred with inherited 46,XY partial gonadal dysgenesis. Fuqua JS, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4479–83

Analysis of the SRY gene in gonadal tissue of subjects with 46,XY gonadal dysgenesis [letter] Fuqua JS, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):701–2

Detection of SRY in a 46,XY female (Swyer's syndrome). Imai A, et al. **J Med** 1997;28(1–2):49–54

Mutation analysis of the 2 kb 5' to SRY in XY females and XY intersex subjects. Kwok C, et al. **J Med Genet** 1996 Jun;33(6):465–8

[Pure 46XY gonadal dysgenesis] Coutin AS, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(8):792–6 (Eng. Abstr.) **(Fre)**

SURGERY

Prepubertal gonadoblastoma in a 46,XY female patient with features of Turner syndrome. Alikaşifoğlu A, et al. **Eur J Pediatr** 1996 Aug;155(8):653–5

VETERINARY

Abnormal structure of the Y chromosome detected in bovine gonadal hypoplasia (XY female) by FISH. Kawakura K, et al. **Cytogenet Cell Genet** 1997;76(1–2):36–8

GONADAL DYSGENESIS, MIXED

COMPLICATIONS

[Association of mixed gonadal dysgenesis and non-classic 21-hydroxylase deficiency] Del Pino O, et al. **Arch Pediatr** 1996 Dec;3(12):1258–61 (Eng. Abstr.) **(Fre)**

GENETICS

Characterization of an isodicentric Y-chromosome for the long arm in a newborn with mixed gonadal dysgenesis. Kohn B, et al. **Ann Genet** 1997;40(1):10–3

PATHOLOGY

Mixed gonadal dysgenesis: histological and ultrastructural findings in two cases. Calabrese F, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):270–5

GONADOBLASTOMA

COMPLICATIONS

Kaposi sarcoma and gonadoblastoma dysgerminoma with gonadal dysgenesis following cadaveric renal transplantation. Yeğenağa-Bakioğlu I, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1750–2

GENETICS

Gonadoblastomas in 45,X/46,XY mosaicism: analysis of Y chromosome distribution by fluorescence in situ hybridization. Iezzoni JC, et al. **Am J Clin Pathol** 1997 Aug;108(2):197–201

Bilateral dysgerminoma and gonadoblastoma in association with XY gonadal dysgenesis. Llewelyn RW. **Clin Exp Obstet Gynecol** 1997;24(1):14

[Y-chromosome mosaicism as markers of increased risk for development of gonadoblastoma in patients with Turner's syndrome] Simko J, et al. **Ceska Gynekol** 1997 Apr; 62(2):89–91 **(Slo)**

PATHOLOGY

Prepubertal gonadoblastoma in a 46,XY female patient with features of Turner syndrome. Alikaşifoğlu A, et al. **Eur J Pediatr** 1996 Aug;155(8):653–5

Heterogeneity of gonadoblastoma germ cells: similarities with immature germ cells, spermatogonia and testicular carcinoma in situ cells. Jørgensen N, et al. **Histopathology** 1997 Feb;30(2):177–86

Mixed gonadal dysgenesis: histological and ultrastructural findings in two cases. Calabrese F, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):270–5

ULTRASTRUCTURE

Mixed gonadal dysgenesis: histological and ultrastructural findings in two cases. Calabrese F, et al. **Int J Gynecol Pathol** 1996 Jul;15(3):270–5

GONADOLIBERIN see **GONADORELIN**

GONADOLIBERIN RECEPTORS see **RECEPTORS, LHRH**

GONADORELIN

see related
RECEPTORS, LHRH

Dual label in situ hybridization studies provide evidence that luteinizing hormone-releasing hormone neurons do not synthesize messenger ribonucleic acid for mu, kappa, or delta opiate receptors. Sannella MI, et al. **Endocrinology** 1997 Apr;138(4):1667–72

[Basic and clinical aspects of GnRH] Uemura T. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug;48(8):672–7 (16 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Pretreatment with phorbol ester and an LHRH agonist reduces testosterone production and protein kinase C activity in rat Leydig cells challenged with PDBu and LHRH. Wanderley MI, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1557–65

Differential effects of gonadotropin-releasing hormone (GnRH) pulse frequency on gonadotropin subunit and GnRH receptor messenger ribonucleic acid levels in vitro. Kaiser UB, et al. **Endocrinology** 1997 Mar;138(3):1224–31

Effect of gonadotropin-releasing hormone (GnRH) pulse frequency on serum and pituitary concentrations of luteinizing hormone and follicle-stimulating hormone, GnRH receptors, and messenger ribonucleic acid for gonadotropin subunits in cows. Vizcarra JA, et al. **Endocrinology** 1997 Feb;138(2):594–601

Hypogonadotropic patients with ultrasonographically detected polycystic ovaries: endocrine response to pulsatile gonadotropin-releasing hormone. Schachter M, et al. **Gynecol Endocrinol** 1996 Oct;10(5):327–35

Danazol administration after gonadotrophin-releasing hormone analogue reduces rebound of uterine myomas. De Leo V, et al. **Hum Reprod** 1997 Feb;12(2):357–60

Role of different GnRH agonist regimens in pituitary suppression and the outcome of controlled ovarian hyperstimulation. Filicori M, et al. **Hum Reprod** 1996 Nov; 11 Suppl 3:123–32 (52 ref.)

The degree of fluid absorption during hysteroscopic surgery in patients pretreated with goserelin. Taskin O, et al. **J Am Assoc Gynecol Laparosc** 1996 Aug;3(4):555–9

Pulsatile intravenous gonadotropin-releasing hormone administration averts fasting-induced hypogonadotropism and hypoandrogenemia in healthy, normal weight men. Aloi JA, et al. **J Clin Endocrinol Metab** 1997 May; 82(5):1543–8

Frequency modulation of follicle-stimulating hormone (FSH) during the luteal-follicular transition: evidence for FSH control of inhibin B in normal women. Welt CK, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2645–52

LH isoform profiles during short-term pulsatile LHRH administration in elderly men. Giusti M, et al. **J Endocrinol Invest** 1997 Apr;20(4):194–202

[Studies on changes in the ratio of free to total PSA after endocrine treatment of prostate carcinoma] Sumi S, et al. **Hinyokika Kiyo** 1996 Dec;42(12):937–41 (Eng. Abstr.) **(Jpn)**

[Pharmacologic suppression of the ovarian function and its clinical usefulness] Kershenovich Sefchovich R, et al. **Ginecol Obstet Mex** 1997 Aug;65:344–8 (24 ref.) (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Pregnancy outcome following exposure to gonadotrophin-releasing hormone analogue during early pregnancy: comparisons in patients with normal or elevated luteinizing hormone. Abu-Heija AT, et al. **Hum Reprod** 1995 Dec;10(12):3317–9

Fatal exacerbation of systemic lupus erythematosus after induction of ovulation [see comments] Casoli P, et al. **J Rheumatol** 1997 Aug;24(8):1639–40. Comment in: J Rheumatol 1997 Aug;24(8):1461–3.

[The effective therapy of the hot flashes during hormone withdrawal treatment in patients with advanced prostatic carcinoma] Kliesch S, et al. **Dtsch Med Wochenschr** 1997 Jul 25;122(30):940–5 (64 ref.) **(Ger)**

AGONISTS

Hair loss in children on long-acting gonadotropin-releasing hormone agonist triptorelin treatment [letter] Kauschansky A, et al. **Acta Derm Venereol** 1997 Jul;77(4):333

Effects of gonadotropin-releasing hormone agonist (GnRHa) and ovariectomy on leukocyte subpopulations in rats with autotransplanted endometrium. Matsubayashi H, et al. **Am J Reprod Immunol** 1996 Jul;36(1):40–8

The suppression of peritoneal cellular immunity in women with endometriosis could be restored after gonadotropin releasing hormone agonist treatment. Wu MY, et al. **Am J Reprod Immunol** 1996 Jun;35(6):510–6

Changes in plasma luteinizing hormone, testosterone and estradiol-17 beta levels and semen quality after injections of gonadotropin releasing hormone agonist and human

chorionic gonadotropin in three dogs with oligozoospermia and two dogs with azoospermia. Kawakami E, et al. **Anim Reprod Sci** 1997 May;47(1–2):157–67

The inhibition of growth and down-regulation of gonadotropin releasing hormone (GnRH) receptor in alphaT3-1 cells by GnRH agonist. Kakar SS, et al. **Anticancer Drugs** 1997 Apr;8(4):369–75

Final height in central precocious puberty after long term treatment with a slow release GnRH agonist. Oostdijk W, et al. **Arch Dis Child** 1996 Oct;75(4):292–7

Continued desensitization of the pituitary gland in young bulls after treatment with the luteinizing hormone-releasing hormone agonist deslorelin. Bergfeld EG, et al. **Biol Reprod** 1996 Apr;54(4):769–75

Pituitary function, ovarian follicular growth, and plasma concentrations of 17 beta-estradiol and progesterone in prepubertal heifers during and after treatment with the luteinizing hormone-releasing hormone agonist deslorelin. Bergfeld EG, et al. **Biol Reprod** 1996 Apr;54(4):776–82

Influence of the luteinizing hormone-releasing hormone agonist, deslorelin, on patterns of estradiol-17 beta and luteinizing hormone secretion, ovarian follicular responses to superstimulation with follicle-stimulating hormone, and recovery and in vitro development of oocytes in heifer calves. Maclellan LJ, et al. **Biol Reprod** 1997 Apr; 56(4):878–84

Changes in plasma gonadotropin II and sex steroid hormones, and sperm production of striped bass after treatment with controlled-release gonadotropin-releasing hormone agonist-delivery systems. Mylonas CC, et al. **Biol Reprod** 1997 Sep;57(3):669–75

Pretreatment with phorbol ester and an LHRH agonist reduces testosterone production and protein kinase C activity in rat Leydig cells challenged with PDBu and LHRH. Wanderley MI, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1557–65

Bone fractures associated with luteinizing hormone-releasing hormone agonists used in the treatment of prostate carcinoma. Townsend MF, et al. **Cancer** 1997 Feb 1; 79(3):545–50

Continuous stimulation of gonadotropin-releasing hormone (GnRH) receptors by GnRH agonist decreases pituitary GnRH receptor messenger ribonucleic acid concentration in immature female rats. Sakakibara H, et al. **Endocr J** 1996 Feb;43(1):115–8

Effects of short-term treatment of a gonadotropin-releasing hormone agonist on the follicular development and gonadotropin secretion in the rat. Krishna A, et al. **Endocr Res** 1996 Aug;22(3):299–310

Gonadotropin releasing hormone agonist provokes homologous receptor microaggregation: an early event in seven-transmembrane receptor mediated signaling. Janovick JA, et al. **Endocrinology** 1996 Aug;137(8):3602–5

Effects of a gonadotropin-releasing hormone analog on rabbit ovarian function. Zanagnolo V, et al. **Endocrinology** 1996 Dec;137(12):5400–6

Prostate specific antigen in boys with precocious puberty before and during gonadal suppression by GnRH agonist treatment. Juul A, et al. **Eur J Endocrinol** 1997 Apr; 136(4):401–5

Lack of relationship between 17-hydroxyprogesterone response to buserelin testing and hyperinsulinemia in polycystic ovary syndrome. Sahin Y, et al. **Eur J Endocrinol** 1997 Apr;136(4):410–5

Change in C-terminal cross-linking domain of type I collagen in urine, a new marker of bone resorption, during and after gonadotropin-releasing hormone agonist administration. Taga M, et al. **Eur J Endocrinol** 1997 Aug;137(2):167–71

LHRH agonist treatment of breast cancer and gynecological malignancies: a review. Burger CW, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Jul;67(1):27–33 (74 ref.)

Serum free/total prostatic-specific antigen in prostate cancer patients treated with LH-RH agonists. Stein A, et al. **Eur Urol** 1997;32(1):64–8

Excretion of urinary N-telopeptides reflects changes in bone turnover during ovarian suppression and indicates individually variable estradiol threshold for bone loss. Dmowski WP, et al. **Fertil Steril** 1996 Dec;66(6):929–36

A prospective randomized comparison between long and discontinuous-long protocols of gonadotropin-releasing hormone agonist for in vitro fertilization. Fujii S, et al. **Fertil Steril** 1997 Jun;67(6):1166–8

Child of a looser God [letter; comment] Kauppila AJ. **Fertil Steril** 1997 May;67(5):975–6; discussion 976–8. Comment on: Fertil Steril 1996 Oct;66(4):666–8.

Effective treatment of severe menstrual migraine headaches with gonadotropin-releasing hormone agonist and "add-back" therapy. Murray SC, et al. **Fertil Steril** 1997 Feb;67(2):390–3

"Child of a looser God" [letter; comment] Odom LD. **Fertil Steril** 1997 May;67(5):975; discussion 976–8. Comment on: Fertil Steril 1995 May;63(5):955–62.

Triggering of ovulation by a gonadotropin-releasing hormone (GnRH) agonist in patients pretreated with a GnRH antagonist. Olivennes F, et al. **Fertil Steril** 1996 Jul;66(1):151–3

Cyclic and individualized administration of gonadotropin-releasing hormone agonists plus progestogens: an alternative protocol for contraception. Chryssikopoulos A, et al. **Gynecol Endocrinol** 1997 Apr; 11(2):119–26

Uterine leiomyomata and sterility: therapy with gonadotropin-releasing hormone agonists and leiomyomectomy. Kuhlmann M, et al. **Gynecol Endocrinol** 1997 Jun;11(3):169–74

Comparing the clinical utility of GnRH antagonist to GnRH agonist in an oocyte donation program. Sauer MV, et al. **Gynecol Obstet Invest** 1997;43(4):215–8

Treatment of endometrial hyperplasias with gonadotropin-releasing hormone agonists: pathological, clinical, morphometric, and DNA-cytometric data. Agorastos T, et al. **Gynecol Oncol** 1997 Apr;65(1):102–14

Prevention of irreversible chemotherapy-induced ovarian damage in young women with lymphoma by a gonadotrophin-releasing hormone agonist in parallel to chemotherapy. Blumenfeld Z, et al. **Hum Reprod** 1996 Aug; 11(8):1620–6

GnRH agonists and uterine leiomyomas. Broekmans FJ. **Hum Reprod** 1996 Nov;11 Suppl 3:3–25 (145 ref.)

The hormonal flare-up following gonadotrophin-releasing hormone agonist administration is influenced by a progestogen pretreatment. Cédrin-Durnerin I, et al. **Hum Reprod** 1996 Sep;11(9):1859–63

Pulsatile gonadotrophin secretion in women with polycystic ovary syndrome after gonadotrophin-releasing hormone agonist treatment. Cheung AP, et al. **Hum Reprod** 1997 Jun;12(6):1156–64

Medical treatment of symptomatic endometriosis. Cirkel U. **Hum Reprod** 1996 Nov;11 Suppl 3:89–101 (40 ref.)

Role of different GnRH agonist regimens in pituitary suppression and the outcome of controlled ovarian hyperstimulation. Filicori M, et al. **Hum Reprod** 1996 Nov; 11 Suppl 3:123–32 (52 ref.)

Ovarian reserve test with the gonadotrophin-releasing hormone agonist buserelin: correlation with in-vitro fertilization outcome. Galtier-Dereure F, et al. **Hum Reprod** 1996 Jul;11(7):1393–8

Women with one ovary have decreased response to GnRHa/HMG ovulation protocol in IVF but the same pregnancy rate as women with two ovaries. Lass A, et al. **Hum Reprod** 1997 Feb;12(2):298–300

Progesterone alone versus progesterone combined with HCG as luteal support in GnRHa/HMG induced IVF cycles: a randomized clinical trial. Mochtar MH, et al. **Hum Reprod** 1996 Aug;11(8):1602–5

Transfer of cryopreserved-thawed pre-embryos in a cycle using exogenous steroids without prior gonadotrophin-releasing hormone agonist suppression yields favourable pregnancy results. Queenan JT Jr, et al. **Hum Reprod** 1997 Jun;12(6):1176–80

Gonadotropin-releasing hormone agonist influences absolute levels of lymphocyte subsets in vivo in male mice. Rao LV, et al. **Immunol Cell Biol** 1996 Apr;74(2):134–43

S- and C-glycopeptide derivatives of an LH-RH agonist. Michael K, et al. **Int J Pept Protein Res** 1996 Jul; 48(1):59–70

Androgen suppression plus radiation versus radiation alone for patients with D1 (pN+) adenocarcinoma of the prostate (results based on a national prospective randomized trial, RTOG 85-31). Radiation Therapy Oncology Group. Lawton CA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):931–9

High-dose chemotherapy with peripheral blood stem-cell transplantation for hormone-refractory advanced carcinoma of the prostate: experience of two cases. Nishiyama T, et al. **Int J Urol** 1996 Jul;3(4):320–3

The degree of fluid absorption during hysteroscopic surgery in patients pretreated with goserelin. Taskin O, et al. **J Am Assoc Gynecol Laparosc** 1996 Aug;3(4):555–9

A cellular and endocrine characterization of the original and induced corpus luteum after administration of a gonadotropin-releasing hormone agonist or human chorionic gonadotropin on day five of the estrous cycle. Schmitt EJ, et al. **J Anim Sci** 1996 Aug;74(8):1915–29

The initial flare-up induced by gonadotropin releasing hormone agonist may serve as a predictor of ovarian response in the current IVF-ET treatment cycle in normogonadotropic women aged 40–48 years. Avrech OM, et al. **J Assist Reprod Genet** 1996 May;13(5):395–400

Pituitary response to early follicular-phase minidose gonadotropin releasing hormone agonist (GnRHa) therapy: evidence for a second flare. Deaton JL, et al. **J Assist Reprod Genet** 1996 May;13(5):390–4

Significance of an abnormal response during pituitary desensitization in an in vitro fertilization and embryo transfer program. Goswami SK, et al. **J Assist Reprod Genet** 1996 May;13(5):374–80

A controlled ovarian hyperstimulation regimen involving intermittent gonadotropin administration with a "short" protocol of gonadotropin releasing hormone agonist for in vitro fertilization. Suganuma N, et al. **J Assist Reprod Genet** 1996 Jan;13(1):43–8

Long-term suppression of testosterone after treatment with a gonadotropin-releasing hormone agonist in a woman with a presumed testosterone secreting ovarian tumor. Barnes RB, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1746–8

"Add-back" estrogen reverses cognitive deficits induced by a gonadotropin-releasing hormone agonist in women with leiomyomata uteri [letter; comment] Davis SR. **J Clin Endocrinol Metab** 1997 Feb;82(2):702–3. Comment on: J Clin Endocrinol Metab 1996 Jul;81(7):2545–9.

Ovarian 17-hydroxyprogesterone hyperresponsiveness to gonadotropin-releasing hormone (GnRH) agonist challenge in women with polycystic ovary syndrome is not mediated by luteinizing hormone hypersecretion: evidence from GnRH agonist and human chorionic gonadotropin stimulation testing. Ibañez L, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4103–7

Luteinizing hormone-releasing hormone agonists interfere with the stimulatory actions of epidermal growth factor in human prostatic cancer cell lines, LNCaP and DU 145. Moretti RM, et al. **J Clin Endocrinol Metab** 1996 Nov; 81(11):3930–7

Radioimmunoassay of meterelin and pharmacokinetics after single injection and implant administration in dogs. Hudon E, et al. **J Pharm Sci** 1997 Feb;86(2):172–8

Effect of inhibition of increased gonadotrophin secretion before 20 weeks of age in bull calves on testicular development. Chandolia RK, et al. **J Reprod Fertil** 1997 Jan;109(1):65–71

GnRH agonists before surgery for uterine leiomyomas. A review [see comments] Crosignani PG, et al. **J Reprod Med** 1996 Jun;41(6):415–21 (38 ref.). Comment in: J Reprod Med 1997 Apr;42(4):253.

Obesity and GnRH action. Report of a case with contribution by peripherally derived estrogens. Hansen LM, et al. **J Reprod Med** 1997 Apr;42(4):247–50

Preoperative use of GnRH agonist for leiomyomas [letter; comment] Hutchins FL Jr. **J Reprod Med** 1997 Apr; 42(4):253. Comment on: J Reprod Med 1996 Jun;41(6):415–21.

Suppression and flare regimens of gonadotropin-releasing hormone agonist. Use in women with different basal gonadotropin values in an in vitro fertilization program. Toth TL, et al. **J Reprod Med** 1996 May;41(5):321–6

Resistance to apoptosis and up regulation of Bcl-2 in benign prostatic hyperplasia after androgen deprivation [see comments] Cardillo M, et al. **J Urol** 1997 Jul;158(1):212–6 . Comment in: J Urol 1997 Jul;158(1):2–3.

Immunomodulation in women with endometriosis receiving GnRH agonist. Hsu CC, et al. **Obstet Gynecol** 1997 Jun; 89(6):993–8

Modulation of cognition-specific cortical activity by gonadal steroids: a positron-emission tomography study in women. Berman KF, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8836–41

Gonadotrophin hormone releasing hormone agonist in cases of severe paraphilia: a lifetime treatment? Thibaut F, et al. **Psychoneuroendocrinology** 1996 May;21(4):411–9

Effects on the endocrine system of long-term treatment with the luteinizing hormone-releasing hormone agonist leuprolide in patients with benign prostatic hyperplasia. Eri LM, et al. **Scand J Clin Lab Invest** 1996 Jul;56(4):319–25

Neoadjuvant hormonal therapy: the Canadian experience. Labrie F, et al. **Urology** 1997 Mar;49(3A Suppl):56–64

Failure of prostaglandin F2 alpha analogue to induce luteolysis in GnRH agonist treated heifers. Birnie LM, et al. **Vet Rec** 1997 Mar 22;140(12):315

[Effects of assisted ovarian stimulation with leuprolide acetate on alterations of plasma estradiol levels and newly synthesized endometrial proteins] Huang H, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Feb;31(2):103–6 (Eng. Abstr.) **(Chi)**

[Fertilization in vitro and embryo transfer by combined long-acting gonadotropin releasing hormone agonist and gonadotropin for superovulation in patients with refractory polycystic ovary syndrome] Li R, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 May;31(5):283–6 (Eng. Abstr.) **(Chi)**

[A case of a premenopausal woman with advanced breast cancer treated with aromatization inhibition in combination with luteinizing hormone-releasing hormone agonist] Hisamatsu K, et al. **Gan To Kagaku Ryoho** 1997 Aug; 24(10):1327–30 (Eng. Abstr.) **(Jpn)**

[Treatment of clinically localized prostatic cancer--endocrine therapy] Hirano A. **Hinyokika Kiyo** 1996 Oct;42(10):829–32 (Eng. Abstr.) **(Jpn)**

[Neoadjuvant endocrine therapy in patients with locally advanced prostate cancer] Maeda O, et al. **Hinyokika Kiyo** 1996 Oct;42(10):821–7 (Eng. Abstr.) **(Jpn)**

[Effect of LHRH agonists on testicular microcirculation with Doppler laser flowmetry] Gonzalvo V, et al. **Actas Urol Esp** 1996 Oct;20(9):772–82 (Eng. Abstr.) **(Spa)**

[Effect of complete androgen block before radical prostatectomy for cancer of the prostate] Gómez Veiga F, et al. **Arch Esp Urol** 1997 May;50(4):355–63 (Eng. Abstr.) **(Spa)**

[LH-RH agonists as therapeutic alternative in patients with benign prostatic hyperplasia (BPH) and surgical contraindication. Long term follow up] Granados Loarca EA, et al. **Arch Esp Urol** 1996 Nov;49(9):923–7 (Eng. Abstr.) **(Spa)**

ANALOGS & DERIVATIVES

Controlled ovarian hyperstimulation in women > or = 40 years old undergoing IVF-ET: mid-luteal versus early follicular (flare-up) GnRH analog regimens. Borini A, et al. **Acta Eur Fertil** 1995 Mar-Apr;26(2):59–61

Treatment of uterine fibroids with GnRH-analogues prior to hysterectomy. Stjernquist M. **Acta Obstet Gynecol Scand Suppl** 1997;164:94–7

Evaluation of the GnRH test results of beef-type breeding bull candidates. Tőzsér J, et al. **Acta Vet Hung** 1996;

44(3):269–75

The inhibition of growth and down-regulation of gonadotropin releasing hormone (GnRH) receptor in alphaT3-1 cells by GnRH agonist. Kakar SS, et al. **Anticancer Drugs** 1997 Apr;8(4):369–75

Synthesis, conformation, biodistribution, and hormone-related in vitro antitumor activity of a gonadotropin-releasing hormone antagonist-branched polypeptide conjugate. Mezö G, et al. **Bioconjug Chem** 1996 Nov-Dec;7(6):642–50

Direct actions of the luteinizing hormone-releasing hormone agonist, deslorelin, on anterior pituitary contents of luteinizing hormone (LH) and follicle-stimulating hormone (FSH), LH and FSH subunit messenger ribonucleic acid, and plasma concentrations of LH and FSH in castrated male cattle. Aspden WJ, et al. **Biol Reprod** 1996 Aug; 55(2):386–92

Continued desensitization of the pituitary gland in young bulls after treatment with the luteinizing hormone-releasing hormone agonist deslorelin. Bergfeld EG, et al. **Biol Reprod** 1996 Apr;54(4):769–75

Pituitary function, ovarian follicular growth, and plasma concentrations of 17 beta-estradiol and progesterone in prepubertal heifers during and after treatment with the luteinizing hormone-releasing hormone agonist deslorelin. Bergfeld EG, et al. **Biol Reprod** 1996 Apr;54(4):776–82

Characteristics of luteinizing hormone (LH) and testosterone secretion, pituitary responses to LH-releasing hormone (LHRH), and reproductive function in young bulls receiving the LHRH agonist deslorelin: effect of castration on LH responses to LHRH. D'Occhio MJ, et al. **Biol Reprod** 1996 Jan;54(1):45–52

Epididymal maturation of chromatin in spermatozoa from control monkeys (Macaca fascicularis) and those treated with Cetrorelix, a gonadotropin-releasing hormone antagonist. Golan R, et al. **Biol Reprod** 1997 Aug; 57(2):354–9

Role of gonadotropin-releasing hormone pulse frequency in differential regulation of gonadotropins in the gilt. Jayes FC, et al. **Biol Reprod** 1997 Apr;56(4):1012–9

Influence of the luteinizing hormone-releasing hormone agonist, deslorelin, on patterns of estradiol-17 beta and luteinizing hormone secretion, ovarian follicular responses to superstimulation with follicle-stimulating hormone, and recovery and in vitro development of oocytes in heifer calves. Maclellan LJ, et al. **Biol Reprod** 1997 Apr; 56(4):878–84

Immediate versus deferred treatment for advanced prostatic cancer: initial results of the Medical Research Council Trial. The Medical Research Council Prostate Cancer Working Party Investigators Group. **Br J Urol** 1997 Feb; 79(2):235–46

Early endocrine therapy versus radical prostatectomy combined with early endocrine therapy for stage D1 prostate cancer. Schmeller N, et al. **Br J Urol** 1997 Feb; 79(2):226–34

Plasma steroid and corticosteroid levels in female pacu Piaractus mesopotamicus, Teleostei–Characidae. Gazola R, et al. **Braz J Med Biol Res** 1996 May;29(5):659–64

Effect of a cytotoxic analog of LH-RH (T-98) on the growth of estrogen-dependent MXT mouse mammary cancers: correlations between growth characteristics and EGF receptor content of tumors. Szepeshazi K, et al. **Breast Cancer Res Treat** 1996;40(2):129–39

Combined GH and LHRH analog treatment in short children. Tanaka T, et al. **Endocr J** 1996 Oct;43 Suppl:S13–7 (8 ref.)

Differential effects of inhibin on gonadotropin stores and gonadotropin-releasing hormone binding to pituitary cells from cycling female rats. Childs GV, et al. **Endocrinology** 1997 Apr;138(4):1577–84

Chronic administration of the luteinizing hormone-releasing hormone (LHRH) antagonist cetrorelix decreases gonadotrope responsiveness and pituitary LHRH receptor messenger ribonucleic acid levels in rats. Pinski J, et al. **Endocrinology** 1996 Aug;137(8):3430–6

Mechanism of mitogen-activated protein kinase activation by gonadotropin-releasing hormone in the pituitary of alphaT3-1 cell line: differential roles of calcium and protein kinase C. Reiss N, et al. **Endocrinology** 1997 Apr; 138(4):1673–82

Repeated use of a GnRH analogue deslorelin (Ovuplant) for hastening ovulation in the transitional mare. McKinnon AO, et al. **Equine Vet J** 1997 Mar;29(2):153–5

Inhibition of zinc-induced metallothionein mRNA accumulation by gonadotropin-releasing hormone in human hepatocarcinoma cell line HepG2. Pati D, et al. **Eur J Biochem** 1996 Nov 15;242(1):36–40

Pharmacological studies with cetrorelix (SB-75), a potent antagonist of luteinising hormone-releasing hormone. Reissmann T, et al. **Eur J Cancer** 1996 Aug;32A(9):1574–9

Ovarian 17 alpha-hydroxyprogesterone responses to GnRH analog testing in oligomenorrheic insulin-dependent diabetic adolescents. Virdis R, et al. **Eur J Endocrinol** 1997 Jun;136(6):624–9

Combined androgen blockade: the gold standard for metastatic prostate cancer. McLeod DG, et al. **Eur Urol** 1997;32 Suppl 3:70–7 (43 ref.)

Comparison of different doses of gonadotropin-releasing hormone antagonist Cetrorelix during controlled ovarian hyperstimulation. Albano C, et al. **Fertil Steril** 1997 May; 67(5):917–22

Dose-related suppression of serum luteinizing hormone in women by a potent new gonadotropin-releasing hormone antagonist (Ganirelix) administered by intranasal spray. Fujimoto VY, et al. **Fertil Steril** 1997 Mar;67(3):469–73

Differences in the acute actions of sGnRH and cGnRH-II on gonadotropin release in goldfish pituitary cells. Chang JP, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):339–54

Reproduction in the Mexican leaf frog, Pachymedusa dacnicolor. VI. Presence and distribution of multiple GnRH forms in the brain. Iela L, et al. **Gen Comp Endocrinol** 1996 Sep;103(3):235–43

Cloning and expression pattern of a second [His5Trp7Tyr8]gonadotropin-releasing hormone (chicken GnRH-II) mRNA in goldfish: evidence for two distinct genes. Lin XW, et al. **Gen Comp Endocrinol** 1997 Aug; 107(2):262–72

A steroidal pheromone and spawning stimuli act via different neuroendocrine mechanisms to increase gonadotropin and milt volume in male goldfish Carassius auratus. Zheng W, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):228–38

Serum insulin-like growth factor-I (IGF-I) and IGF binding protein-3 levels in children with precocious puberty treated with gonadotropin-releasing hormone analog without or in combination with cyproterone acetate. Verrotti A, et al. **Gynecol Endocrinol** 1997 Aug;11(4):243–50

Comparing the clinical utility of GnRH antagonist to GnRH agonist in an oocyte donation program. Sauer MV, et al. **Gynecol Obstet Invest** 1997;43(4):215–8

Postoperative GnRH analog treatment for the prevention of recurrences of uterine myomas after myomectomy. A pilot study. Vavala V, et al. **Gynecol Obstet Invest** 1997; 43(4):251–4

Long-term follow-up of gonadotrophin-releasing hormone analog treatment for recurrent endometrial cancer. Jeyarajah AR, et al. **Gynecol Oncol** 1996 Oct;63(1):47–52

Effect of luteinizing hormone-releasing hormone analogs on the rat ovarian follicle development. Yano T, et al. **Horm Res** 1997;48 Suppl 3:35–41

Pregnancy outcome following exposure to gonadotrophin-releasing hormone analogue during early pregnancy: comparisons in patients with normal or elevated luteinizing hormone. Abu-Heija AT, et al. **Hum Reprod** 1995 Dec;10(12):3317–9

Hormonal profile during the follicular phase in cycles stimulated with a combination of human menopausal gonadotrophin and gonadotrophin-releasing hormone antagonist (Cetrorelix). Albano C, et al. **Hum Reprod** 1996 Oct;11(10):2114–8

Specific gonadotrophin-releasing hormone analogue binding predominantly in human luteinized follicular aspirates and not in human pre-ovulatory follicles. Brus L, et al. **Hum Reprod** 1997 Apr;12(4):769–73

Pulsatile gonadotrophin secretion in women with polycystic ovary syndrome after gonadotrophin-releasing hormone agonist treatment. Cheung AP, et al. **Hum Reprod** 1997 Jun;12(6):1156–64

GnRH analogues in the treatment of uterine fibroids. Golan A. **Hum Reprod** 1996 Nov;11 Suppl 3:33–41 (31 ref.)

Pregnancy after transfer of embryos which were generated from in-vitro matured oocytes. Jaroudi KA, et al. **Hum Reprod** 1997 Apr;12(4):857–9

Comparison of gonadotrophin-releasing hormone analogues and human chorionic gonadotrophin for the induction of ovulation and prevention of ovarian hyperstimulation syndrome: a case-control study. Lewit N, et al. **Hum Reprod** 1996 Jul;11(7):1399–402

Dose relationship between GnRH antagonists and pituitary suppression. Rivier J, et al. **Hum Reprod** 1996 Nov;11 Suppl 3:133–47 (74 ref.)

Blood flow changes in the uterus induced by treatment with GnRH analogues. Shaw RW. **Hum Reprod** 1996 Nov;11 Suppl 3:27–32 (10 ref.)

Subtle progesterone rise after the administration of the gonadotrophin-releasing hormone antagonist cetrorelix in intracytoplasmic sperm injection cycles. Ubaldi F, et al. **Hum Reprod** 1996 Jul;11(7):1405–7

Hormone profiles under ovarian stimulation with human menopausal gonadotropin (hMG) and concomitant administration of the gonadotropin releasing hormone (GnRH)-antagonist Cetrorelix at different dosages. Felberbaum R, et al. **J Assist Reprod Genet** 1996 Mar; 13(3):216–22

The significance of an early (premature) rise of plasma progesterone in in vitro fertilization cycles induced by a "long protocol" of gonadotropin releasing hormone analogue and human menopausal gonadotropins. Shulman A, et al. **J Assist Reprod Genet** 1996 Mar;13(3):207–11

High loading and low maintenance doses of a gonadotropin-releasing hormone antagonist effectively suppress serum luteinizing hormone, follicle-stimulating hormone, and testosterone in normal men. Behre HM, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1403–8

Combined treatment with gonadotropin-releasing hormone analog and growth hormone in central precocious puberty. Pasquino AM, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):948–51

Metabolism of [des-Gly10, D-Trp6]LHRH ethylamide in the rabbit conjunctiva. Kompella UB, et al. **J Ocul Pharmacol Ther** 1997 Apr;13(2):163–70

Radioimmunoassay of meterelin and pharmacokinetics after single injection and implant administration in dogs. Hudon E, et al. **J Pharm Sci** 1997 Feb;86(2):172–8

Induction of luteinizing hormone surge by pulsatile administration of gonadotropin-releasing hormone analogue in cows with follicular cysts. Kawate N, et al. **J Vet Med Sci** 1997 Jun;59(6):463–6

Congenital adrenal hyperplasia complicated by central precocious puberty: linear growth during infancy and treatment with gonadotropin-releasing hormone analog. Soliman AT, et al. **Metabolism** 1997 May;46(5):513–7

Chicken GnRH II-like peptides and a GnRH receptor selective for chicken GnRH II in amphibian sympathetic ganglia. Troskie B, et al. **Neuroendocrinology** 1997 Jun; 65(6):396–402

Recovery of pituitary function after treatment with a targeted cytotoxic analog of luteinizing hormone-releasing hormone. Kovacs M, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1420–5

Luteinizing hormone-releasing hormone antagonist Cetrorelix (SB-75) and bombesin antagonist RC-3940-II inhibit the growth of androgen-independent PC-3 prostate cancer in nude mice. Jungwirth A, et al. **Prostate** 1997 Aug 1;32(3):164–72

The pharmacological effect of the gonadotrophin-releasing hormone on experimental cryptorchidism in rats. Lein M, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):185–91

Use of the GnRH analogue, deslorelin acetate, in a slow-release implant to accelerate ovulation in oestrous mares. Meyers PJ, et al. **Vet Rec** 1997 Mar 8;140(10):249–52

[GnRH analog protocols revisited I—advantages and doubts] Hugues JN, et al. **Contracept Fertil Sex** 1997 Jun; 25(6):445–56 (116 ref.) (Eng. Abstr.) **(Fre)**

[Neoadjuvant combined hormonal therapy and radiotherapy with external beam irradiation in prostatic carcinoma] Cellini N, et al. **Radiol Med (Torino)** 1997 Apr;93(4):446–50 (Eng. Abstr.) **(Ita)**

[Biological activity of analogs of peptide hormone luliberin in the regulation of immune response of T lymphocytes] Kazakova TB, et al. **Biull Eksp Biol Med** 1996 Sep; 122(9):334–7 **(Rus)**

[Histologic regression of localized prostatic tumor with neoadjuvant hormonal therapy] López López C, et al. **Arch Esp Urol** 1996 Oct;49(8):819–23 (Eng. Abstr.) **(Spa)**

[Improvement of expected and final height in girls with central precocious puberty treated with gonadotropin releasing hormone analogues (see comments)] Gómez F, et al. **Med Clin (Barc)** 1996 Nov 23;107(18):681–4 (Eng. Abstr.). Comment in: Med Clin (Barc) 1996 Nov 23;107(18):698–701. **(Spa)**

ANALYSIS

Immunohistochemical and Ultrastructural characterization of the terminal nerve ganglion cells of the ayu, Plecoglossus altivelis (Salmoniformes, Teleostei). Chiba A, et al. **Anat Rec** 1996 Dec;246(4):549–56

Luteinizing hormone-releasing hormone and innervation pathways in human prenatal nasal submucosa: factors of importance in evaluating Kallmann's syndrome. Kjaer I, et al. **APMIS** 1996 Sep;104(9):680–8

Distribution of two molecular forms of gonadotropin-releasing hormone (GnRH) in the central nervous system of the frog Rana ridibunda. Collin F, et al. **Brain Res** 1995 Dec 12;703(1–2):111–28

Synaptic contacts between gonadotropin-releasing hormone-containing fibers and neurons in the suprachiasmatic nucleus and perichiasmatic area: an anatomical substrate for feedback regulation? van der Beek EM, et al. **Brain Res** 1997 Apr 25;755(1):101–11

The prepubertal ontogeny of luteinizing hormone releasing hormone-like immunoreactivity in the diencephalon and telencephalon of the male Meishan pig brain. Pearson PL, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):157–68

Presence of LHRH (luteinizing hormone-releasing hormone) fibers in the optic nerve, optic chiasm and optic tract of the adult rat. Santacana M, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):292–9

Migration of neurons containing gonadotropin releasing hormone (GnRH) in slices from embryonic nasal compartment and forebrain. Tobet SA, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):287–92

Comigration of tyrosine hydroxylase- and gonadotropin-releasing hormone-immunoreactive neurons in the nasal area of human embryos. Verney C, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):251–9

Migration of GnRH-immunoreactive neurons from the olfactory placode to the brain: a study using avian embryonic chimeras. Yamamoto N, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):234–44

Studies of gonadotropin-releasing hormone (GnRH) action using GnRH receptor-expressing pituitary cell lines. Kaiser UB, et al. **Endocr Rev** 1997 Feb;18(1):46–70 (191 ref.)

Regional differences in the distribution of gonadotropin-releasing hormone cells between rapidly growing and growth-restricted prepubertal female sheep. Tanson H, et al. **Endocrinology** 1997 Jan;138(1):230–6

Liquid chromatography studies on the enzymatic degradation of luteinizing hormone-releasing hormone analogues with off-line identification by mass spectrometry. Péter A, et al. **J Chromatogr A** 1996 Apr 5;729(1–2):137–42

Gonadotropin-releasing hormone immunoreactivity in the nasal epithelia of adults with Kallmann's syndrome and isolated hypogonadotropic hypogonadism and in the early midtrimester human fetus. Quinton R, et al.

J Clin Endocrinol Metab 1997 Jan;82(1):309–14

Silver lampreys (Ichthyomyzon unicuspis) lack a gonadotropin-releasing hormone- and FMRFamide-immunoreactive terminal nerve. Eisthen HL, et al. **J Comp Neurol** 1996 Jun 24;370(2):159–72

Joint migration of gonadotropin-releasing hormone (GnRH) and neuropeptide Y (NPY) neurons from olfactory placode to central nervous system. Hilal EM, et al. **J Neurobiol** 1996 Dec;31(4):487–502

Relationship of neuronal nitric oxide synthase immunoreactivity to GnRH neurons in the ovariectomized and intact female rat. Herbison AE, et al. **J Neuroendocrinol** 1996 Jan;8(1):73–82

Immunocytochemical localization of GnRH precursor in the hypothalamus of European starlings during sexual maturation and photorefractoriness. Parry DM, et al. **J Neuroendocrinol** 1997 Mar;9(3):235–43

The temporal pattern of mating-induced immediate-early gene product immunoreactivity in LHRH and non-LHRH neurons of the estrous ferret forebrain. Wersinger SR, et al. **J Neuroendocrinol** 1996 May;8(5):345–59

Gonadotropin-releasing hormone (GnRH) neurons of the developing tectum of the mouse. Wu TJ, et al. **J Neuroendocrinol** 1995 Dec;7(12):899–902

Lesions of gonadotropin-releasing hormone-immunoreactive terminal nerve cells: effects on the reproductive behavior of male dwarf gouramis. Yamamoto N, et al. **Neuroendocrinology** 1997 Jun;65(6):403–12

Intracerebral expression of gonadotropin-releasing hormone and growth hormone-releasing hormone is delayed until smoltification in the salmon. Parhar IS, et al. **Neurosci Res** 1996 Nov;26(3):299–308

Immunoreactive mammalian and chicken-II GnRHs in Rana esculenta brain during development. Di Fiore MM, et al. **Regul Pept** 1996 Apr 23;62(2–3):119–24

ANTAGONISTS & INHIBITORS

Response of the testis to gonadotrophin replacement in young hypophysectomized vs. gonadotrophin-releasing hormone antagonist-treated rats. Gaytan F, et al. **Andrologia** 1997 Mar–Apr;29(2):85–90

Use of a GnRH antagonist in conjunction with low amplitude, high frequency LH pulses to induce follicular growth without an LH surge and ovulation in ewes. Dobson H, et al. **Anim Reprod Sci** 1997 Apr;46(3–4):213–22

Multiple polypoid endometriosis—a rare complication following withdrawal of gonadotrophin releasing hormone (GnRH) agonist for severe endometriosis: a case report. Othman NH, et al. **Aust N Z J Obstet Gynaecol** 1996 May; 36(2):216–8

Synthesis, conformation, biodistribution, and hormone-related in vitro antitumor activity of a gonadotropin-releasing hormone antagonist-branched polypeptide conjugate. Mezö G, et al. **Bioconjug Chem** 1996 Nov–Dec;7(6):642–50

Epididymal maturation of chromatin in spermatozoa from control monkeys (Macaca fascicularis) and those treated with Cetrorelix, a gonadotropin-releasing hormone antagonist. Golan R, et al. **Biol Reprod** 1997 Aug; 57(2):354–9

Effects of bovine follicular fluid and passive immunization against gonadotropin-releasing hormone (GnRH) on messenger ribonucleic acid for GnRH receptor and gonadotropin subunits in ovariectomized ewes. Turzillo AM, et al. **Biol Reprod** 1997 Jun;56(6):1537–43

Epirubicin combined with estramustine phosphate in hormone-resistant prostate cancer: a phase II study. Hernes EH, et al. **Br J Cancer** 1997;76(1):93–9

The choice of luteal support following pituitary down regulation, controlled ovarian hyperstimulation and in vitro fertilisation. Akande AV, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):963–6 (31 ref.)

Suppression of testicular and epididymal functions in a non-human primate (bonnet monkey) by combined administration of a gonadotropin-releasing hormone antagonist and testosterone buciclate. Rajalakshmi M, et al. **Contraception** 1995 Dec;52(6):381–8

Chronic administration of the luteinizing hormone-releasing hormone (LHRH) antagonist cetrorelix decreases gonadotrope responsiveness and pituitary LHRH receptor messenger ribonucleic acid levels in rats. Pinski J, et al. **Endocrinology** 1996 Aug;137(8):3430–6

Pharmacological studies with cetrorelix (SB-75), a potent antagonist of luteinising hormone-releasing hormone. Reissmann T, et al. **Eur J Cancer** 1996 Aug;32A(9):1574–9

A novel approach to assess changes in endocrine secretion: analysis of GnRH antagonist (Nal-Glu) suppression of gonadotropin release in ovariectomized ewes. Normolle DP, et al. **Eur J Endocrinol** 1997 May;136(5):519–30

Worsening of ischemic damage in hearts from rats with selective growth hormone deficiency. De Gennaro Colonna V, et al. **Eur J Pharmacol** 1996 Oct 31; 314(3):333–8

Comparison of different doses of gonadotropin-releasing hormone antagonist Cetrorelix during controlled ovarian hyperstimulation. Albano C, et al. **Fertil Steril** 1997 May; 67(5):917–22

Dose-related suppression of serum luteinizing hormone in women by a potent new gonadotropin-releasing hormone antagonist (Ganirelix) administered by intranasal spray. Fujimoto VY, et al. **Fertil Steril** 1997 Mar;67(3):469–73

Ability of an anti-luteinizing hormone-releasing hormone vaccine to inhibit gonadotropins in postmenopausal women. Gual C, et al. **Fertil Steril** 1997 Feb;67(2):404–7

Triggering of ovulation by a gonadotropin-releasing hormone (GnRH) agonist in patients pretreated with a GnRH antagonist. Olivennes F, et al. **Fertil Steril** 1996 Jul;66(1):151–3

Comparing the clinical utility of GnRH antagonist to GnRH agonist in an oocyte donation program. Sauer MV, et al. **Gynecol Obstet Invest** 1997;43(4):215–8

Hormonal profile during the follicular phase in cycles stimulated with a combination of human menopausal gonadotrophin and gonadotrophin-releasing hormone antagonist (Cetrorelix). Albano C, et al. **Hum Reprod** 1996 Oct;11(10):2114–8

Initiation of high dose gonadotrophin-releasing hormone antagonist treatment during the late follicular phase in the macaque abolishes luteal function irrespective of effects upon the luteinizing hormone surge. Fraser HM, et al. **Hum Reprod** 1997 Mar;12(3):430–5

Dose relationship between GnRH antagonists and pituitary suppression. Rivier J, et al. **Hum Reprod** 1996 Nov;11 Suppl 3:133–47 (74 ref.)

Subtle progesterone rise after the administration of the gonadotrophin-releasing hormone antagonist cetrorelix in intracytoplasmic sperm injection cycles. Ubaldi F, et al. **Hum Reprod** 1996 Jul;11(7):1405–7

Recommended dose of flutamide with LH-RH agonist therapy in patients with advanced prostate cancer. Akaza H, et al. **Int J Urol** 1996 Nov;3(6):468–71

High loading and low maintenance doses of a gonadotropin-releasing hormone antagonist effectively suppress serum luteinizing hormone, follicle-stimulating hormone, and testosterone in normal men. Behre HM, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1403–8

Inhibin-B in the male rhesus monkey: impact of neonatal gonadotropin-releasing hormone antagonist treatment and sexual development. Mann DR, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1928–33

Blockade of the neonatal increase in testosterone by a GnRH antagonist: the free androgen index, reproductive capacity and postmortem findings in the male marmoset monkey. Lunn SF, et al. **J Endocrinol** 1997 Jul;154(1):125–31

Radioimmunoassay of Antarelix, a luteinizing hormone releasing-hormone antagonist, in plasma and its application for pharmacokinetic study in dogs. Sorensen S, et al. **J Immunoassay** 1996 Aug;17(3):205–26

Antiovulatory antagonists of LHRH related to antide. Flouret G, et al. **J Pept Sci** 1995 Mar–Apr;1(2):89–108

Evidence to suggest that gonadotropin-releasing hormone inhibits its own secretion by affecting hypothalamic amino acid neurotransmitter release. Feleder C, et al. **Neuroendocrinology** 1996 Oct;64(4):298–304

Nitric oxide synthase and cGMP in the anterior pituitary gland: effect of a GnRH antagonist and nitric oxide donors. Yamada K, et al. **Neuroendocrinology** 1997 Feb; 65(2):147–56

Bacterial endotoxin inhibits LHRH secretion following the increased release of hypothalamic GABA levels. Different effects on amino acid neurotransmitter release. Feleder C, et al. **Neuroimmunomodulation** 1996 Nov–Dec;3(6):342–51

Luteinizing hormone-releasing hormone antagonist Cetrorelix (SB-75) and bombesin antagonist RC-3940-II inhibit the growth of androgen-independent PC-3 prostate cancer in nude mice. Jungwirth A, et al. **Prostate** 1997 Aug 1;32(3):164–72

BIOSYNTHESIS

Biosynthesis of gonadotropins in vivo. Kochman K, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):753–6 (25 ref.)

Subpopulations of migrating neurons express different levels of LHRH in quail and chick embryos. Gao C, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):237–44

Effects of pituitary adenylate cyclase-activating polypeptide (PACAP) on gonadotropin-releasing hormone and somatostatin gene expression in the rat brain. Li S, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):157–62

Immortalized hypothalamic neurons express metabotropic glutamate receptors positively coupled to cyclic AMP formation. Sortino MA, et al. **Eur J Neurosci** 1996 Nov; 8(11):2407–15

Modification of gonadotropin releasing hormone (GnRH) mRNA expression in the retinal-recipient Thalamus. Foran CM, et al. **Gen Comp Endocrinol** 1997 May;106(2):251–64

The genes for gonadotropin-releasing hormone and its receptor are expressed in human breast with fibrocystic disease and cancer. Kottler ML, et al. **Int J Cancer** 1997 May 16;71(4):595–9

Expression of glutamate receptor subunit mRNAs in gonadotropin-releasing hormone neurons during the sexual maturation of the female rat. Eyigor O, et al. **Neuroendocrinology** 1997 Aug;66(2):122–9

BLOOD

Circulating maternal corticotropin-releasing hormone and gonadotropin-releasing hormone in normal and abnormal pregnancies. Sorem KA, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):912–6

The value of the gonadotrophin-releasing hormone test as a prognostic factor in infertile patients with varicocele. Atikeler K, et al. **Br J Urol** 1996 Oct;78(4):632–4

Countercurrent transfer of 125I-LHRH in the perihypophyseal cavernous sinus-carotid rete vascular complex, demonstrated on isolated pig heads perfused with autologous blood. Grzegorzewski WJ, et al. **Domest Anim Endocrinol** 1997 May;14(3):149–60

Effect of excessive GnRH-binding substance on circulating maternal hCG in human pregnancy. Siler-Khodr TM, et al. **Early Pregnancy** 1997 Mar;3(1):10–4

Endotoxin inhibits the reproductive neuroendocrine axis while stimulating adrenal steroids: a simultaneous view from hypophyseal portal and peripheral blood. Battaglia DF, et al. **Endocrinology** 1997 Oct;138(10):4273–81

CHEMISTRY

Molecular mechanisms of ligand interaction with the gonadotropin-releasing hormone receptor. Sealfon SC, et al. **Endocr Rev** 1997 Apr;18(2):180–205 (237 ref.)

Examination of guinea pig luteinizing hormone-releasing hormone gene reveals a unique decapeptide and existence of two transcripts in the brain. Jimenez-Liñan M, et al. **Endocrinology** 1997 Oct;138(10):4123–30

Sequence of two gonadotropin releasing hormones from tunicate suggest an important role of conformation in receptor activation. Craig AG, et al. **FEBS Lett** 1997 Aug 18;413(2):215–25

Degradation kinetics of gonadorelin in aqueous solution. Hoitink MA, et al. **J Pharm Sci** 1996 Oct;85(10):1053–9

Dependence of agonist activation on an aromatic moiety in the DPLIY motif of the gonadotropin-releasing hormone receptor. Arora KK, et al. **Mol Endocrinol** 1996 Aug; 10(8):979–86

Two new forms of gonadotropin-releasing hormone in a protochordate and the evolutionary implications. Powell JF, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10461–4

Primary structure of three forms of gonadotropin-releasing hormone (GnRH) from the pacu brain. Powell JF, et al. **Regul Pept** 1997 Feb 26;68(3):189–95

Gonadotropin-releasing hormone neurons: their structure and function. Hoffman GE, et al. **Semin Reprod Endocrinol** 1997 Feb;15(1):5–17

DEFICIENCY

Genetic heterogeneity evidenced by low incidence of KAL-1 gene mutations in sporadic cases of gonadotropin-releasing hormone deficiency. Georgopoulos NA, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):213–7

Inhibin B secretion in males with gonadotropin-releasing hormone (GnRH) deficiency before and during long-term GnRH replacement: relationship to spontaneous puberty, testicular volume, and prior treatment—a clinical research center study. Nachtigall LB, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3520–5

Inhibin B in males with gonadotropin-releasing hormone (GnRH) deficiency: changes in serum concentration after shortterm physiologic GnRH replacement—a clinical research center study. Seminara SB, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3692–6

The genetic and clinical heterogeneity of gonadotropin-releasing hormone deficiency in the human. Waldstreicher J, et al. **J Clin Endocrinol Metab** 1996 Dec; 81(12):4388–95

Abnormal melatonin secretion in male patients with hypogonadism. Luboshitzky R, et al. **J Mol Neurosci** 1996 Summer;7(2):91–8

Pulsatile patterns of melatonin secretion in patients with gonadotropin-releasing hormone deficiency: effects of testosterone treatment. Luboshitzky R, et al. **J Pineal Res** 1997 Mar;22(2):95–101

Adult-onset idiopathic hypogonadotropic hypogonadism—a treatable form of male infertility. Nachtigall LB, et al. **N Engl J Med** 1997 Feb 6;336(6):410–5

Personality development of adolescents with hypogonadotropic hypogonadism. Huisman J, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1123–6

DIAGNOSTIC USE

Variations of free and total tryptophan serum levels after GN-RH administration in patients with amenhorrea. Preliminary results. Carretti N, et al. **Adv Exp Med Biol** 1996;398:433–7

Basal and stimulated gonadotropin levels in the perimenopause. Schmidt PJ, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):643–50

Post-menopausal and chronological age have divergent effects on pituitary and hypothalamic function in episodic gonadotrophin secretion. Lambalk CB, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):439–43

The anterior pituitary response to a gonadotropin-releasing hormone challenge test in normal older reproductive-age women. Fujimoto VY, et al. **Fertil Steril** 1996 Mar; 65(3):539–44

Long-term administration of pulsatile gonadotropin-releasing hormone for exploration of pituitary functionality in amenorrheic patients. Graña M, et al. **Gynecol Endocrinol** 1997 Apr;11(2):91–9

Ultrasound-detected polycystic ovarian syndrome associated with depleted basal level but enhanced response of gonadotropin. Imai A, et al. **J Med** 1995;26(5–6):337–42

Gonadotropin-releasing hormone agonist analog (nafarelin): a useful diagnostic agent for the distinction of constitutional growth delay from hypogonadotropic hypogonadism.

Kletter GB, et al. **J Pediatr Endocrinol Metab** 1996 Jan–Feb;9(1):9–19

Evaluation of the hypothalamic–pituitary axis in uremic males using dynamic tests. The possible role of testicular inhibin: a preliminary report. Chryssicopoulos A, et al. **Ren Fail** 1996 Nov;18(6):911–21

[Gonadotropin-releasing hormone (GnRH) in selecting patients for varicocelectomy] Segenreich E, et al. **Harefuah** 1997 Mar 2;132(5):330–2, 383 (Eng. Abstr.) **(Heb)**

[Function tests for male gonads] Isurugi K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:380–4 (6 ref.) **(Jpn)**

[LH–RH (loading) test] Miyake A, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:259–61 (0 ref.) **(Jpn)**

[LH–RH test, clomiphene test, Premarin test, and Kaufmann test] Shimizu Y, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:397–408 (11 ref.) **(Jpn)**

GENETICS

Peptide hormone evolution: functional heterogeneity within GnRH and CRF families. Lovejoy DA. **Biochem Cell Biol** 1996;74(1):1–7 (61 ref.)

The estradiol-induced luteinizing hormone surge in the ewe is not associated with increased gonadotropin-releasing hormone messenger ribonucleic acid levels. Dhillon H, et al. **Biol Reprod** 1997 Jul;57(1):107–11

Protein synthesis-dependent and -independent mechanisms for the regulation of GnRH RNA transcript levels in GT1 cells. Yeo TT, et al. **Brain Res** 1997 Mar 28; 752(1–2):294–300

Gonadotropin-releasing hormone gene expression in teleosts. Parhar IS, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1–2):216–27

Characterization of gonadotropin-releasing hormone gene transcripts in a mouse hypothalamic neuronal GT1 cell line. Yeo TT, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):255–62

Hypothalamic gonadotropin-releasing hormone gene expression during rat estrous cycle. Suzuki M, et al. **Endocr J** 1995 Dec;42(6):789–796

Characterization of multiple promoters directing tissue-specific expression of the human gonadotropin-releasing hormone gene. Dong KW, et al. **Endocrinology** 1997 Jul;138(7):2754–62

Transforming growth factor-beta and astrocytic conditioned medium influence luteinizing hormone-releasing hormone gene expression in the hypothalamic cell line GT1. Galbiati M, et al. **Endocrinology** 1996 Dec;137(12):5605–9

Examination of guinea pig luteinizing hormone-releasing hormone gene reveals a unique decapeptide and existence of two transcripts in the brain. Jimenez-Liñan M, et al. **Endocrinology** 1997 Oct;138(10):4123–30

Regulation of gonadotropin-releasing hormone gene expression in vivo and in vitro. Gore AC, et al. **Front Neuroendocrinol** 1997 Apr;18(2):209–45 (192 ref.)

Activation of salmon GnRH mRNA expression prior to differentiation of precocious males in Masu salmon. Amano M, et al. **Gen Comp Endocrinol** 1997 Mar;105(3):365–71

Characterization of two new preproGnRH mRNAs in the tree shrew: first direct evidence for mesencephalic GnRH gene expression in a placental mammal. Kasten TL, et al. **Gen Comp Endocrinol** 1996 Oct;104(1):7–19

What nature's knockout teaches us about GnRH activity: hypogonadal mice and neuronal grafts. Gibson MJ, et al. **Horm Behav** 1997 Jun;31(3):212–20

Concentration of gonadotropin-releasing hormone receptor messenger ribonucleic acid in pituitary tissue of orchidectomized sheep: effect of passive immunization against gonadotropin-releasing hormone. Sakurai H, et al. **J Anim Sci** 1997 Jan;75(1):189–94

cis-Acting elements and trans-acting proteins in the transcriptional inhibition of gonadotropin-releasing hormone gene by human chorionic gonadotropin in immortalized hypothalamic GT1-7 neurons. Lei Z, et al. **J Biol Chem** 1997 May 30;272(22):14365–71

An alternative gonadotropin-releasing hormone (GnRH) RNA splicing product found in cultured GnRH neurons and mouse hypothalamus. Zhen S, et al. **J Biol Chem** 1997 May 9;272(19):12620–5

Genetic heterogeneity evidenced by low incidence of KAL-1 gene mutations in sporadic cases of gonadotropin-releasing hormone deficiency. Georgopoulos NA, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):213–7

Gonadotropin-releasing hormone gene expression is increased in the medial basal hypothalamus of postmenopausal women. Rance NE, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3540–6

Gonadotropin-releasing hormone and gonadotropin-releasing hormone receptor messenger ribonucleic acids expression in nontumorous and neoplastic pituitaries. Sanno N, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1974–82

Gene expression of gonadotropin-releasing hormone in early pregnant rat and steroid hormone exposed mouse uteri. Ikeda M, et al. **J Endocrinol Invest** 1996 Dec;19(11):708–13

Facilitation or inhibition of the estradiol-induced gonadotropin surge in the immature rat by progesterone: regulation of GnRH and LH messenger RNAs and activation of GnRH neurons. Attardi B, et al. **J Neuroendocrinol** 1997 Aug;9(8):589–99

Post-transcriptional regulation of the gonadotropin-releasing hormone gene in GT1-7 cells. Gore AC, et al. **J Neuroendocrinol** 1997 Apr;9(4):271–7

Involvement of neurosteroids in the effect of the endogenous benzodiazepine receptor ligand octadecaneuropeptide (ODN) on gonadotropin-releasing hormone gene expression in rat brain. Li S, et al. **J Neuroendocrinol** 1997 Mar;9(3):229–33

Gonadotropin-releasing hormone and NMDA receptor gene expression and colocalization change during puberty in female rats. Gore AC, et al. **J Neurosci** 1996 Sep 1; 16(17):5281–9

Repression of gonadotropin-releasing hormone promoter activity by the POU homeodomain transcription factor SCIP/Oct-6/Tst-1: a regulatory mechanism of phenotype expression? Wierman ME, et al. **Mol Cell Biol** 1997 Mar; 17(3):1652–65

Glucocorticoid repression of gonadotropin-releasing hormone gene expression and secretion in morphologically distinct subpopulations of GT1-7 cells. Attardi B, et al. **Mol Cell Endocrinol** 1997 Aug 8;131(2):241–55

Evidence for estrogen receptor-mediated regulation of human gonadotropin-releasing hormone promoter activity in human placental cells. Dong KW, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):241–6

Multiple transcription start sites for the GnRH gene in rhesus and cynomolgus monkeys: a non-human primate model for studying GnRH gene regulation. Dong KW, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):121–30

Phorbol ester inhibition of rat gonadotropin-releasing hormone promoter activity: role of Fos and Jun in the repression of transcription. Bruder JM, et al. **Mol Endocrinol** 1996 Jan;10(1):35–44

Inhibition of gonadotropin-releasing hormone receptor signaling by expression of a splice variant of the human receptor. Grosse R, et al. **Mol Endocrinol** 1997 Aug; 11(9):1305–18

Phorbol ester regulation of the gonadotropin-releasing hormone (GnRH) gene in GnRH-secreting cell lines: a molecular basis for species differences. Zakaria M, et al. **Mol Endocrinol** 1996 Oct;10(10):1282–91

Regulation of gonadotropin-releasing hormone (GnRH) gene expression by insulin-like growth factor I in a cultured GnRH-expressing neuronal cell line. Zhen S, et al. **Mol Endocrinol** 1997 Jul;11(8):1145–55

Further studies on the mechanism of action of the endogenous benzodiazepine receptor ligand octadecaneuropeptide on gonadotropin-releasing hormone gene expression in the rat brain. Li S, et al. **Neuroendocrinology** 1996 Aug;64(2):79–84

Structure of the distal human gonadotropin releasing hormone (hGnrh) gene promoter and functional analysis in Gt1-7 neuronal cells. Kepa JK, et al. **Nucleic Acids Res** 1996 Sep 15;24(18):3614–20

IMMUNOLOGY

The variable domain glycosylation in a monoclonal antibody specific to GnRH modulates antigen binding. Khurana S, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):465–9

Immunoreactive gonadotropin-releasing hormone (GnRHir) is associated with vestibular structures in the green anole (Anolis carolinensis). Rosen G, et al. **Brain Behav Evol** 1997;50(3):129–38

Vaccines for control of fertility and hormone-dependent cancers. Talwar GP. **Immunol Cell Biol** 1997 Apr; 75(2):184–9

Pregnancy status and feedlot performance of beef heifers actively immunized against gonadotropin-releasing hormone. Bell M, et al. **J Anim Sci** 1997 May;75(5):1185–9

Concentration of gonadotropin-releasing hormone receptor messenger ribonucleic acid in pituitary tissue of orchidectomized sheep: effect of passive immunization against gonadotropin-releasing hormone. Sakurai H, et al. **J Anim Sci** 1997 Jan;75(1):189–94

Effects of nutrition on testicular growth in mature Merino rams actively immunized against GnRH. Hötzel MJ, et al. **J Reprod Fertil** 1997 Jul;110(2):307–13

Ontogenetic changes in neuropeptide Y-like-immunoreactivity in the terminal nerve of the chum salmon and the cloudy dogfish, with special reference to colocalization with gonadotropin-releasing hormone-immunoreactivity. Chiba A, et al. **Neurosci Lett** 1996 Jul 26;213(1):49–52

Effect of active immunization against luteinizing hormone-releasing hormone on the androgen-sensitive Dunning R3327-PAP and androgen-independent Dunning R3327-AT2.1 prostate cancer sublines. Fuerst J, et al. **Prostate** 1997 Jul 1;32(2):77–84

Development of a hormone neutralizing vaccine, using GnRH-glycys-PPD, for use in the treatment of oestrogen-dependent disorders. Ferro VA, et al. **Ther Immunol** 1995 Jun;2(3):147–57

ISOLATION & PURIFICATION

Rapid separation of gonadotropin-releasing hormone molecular forms by isocratic high-performance liquid chromatography on an ion-exchange column. D'Eramo JL, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12; 682(2):219–24

METABOLISM

Effects of melatonin infused into the III ventricle on prolactin, beta-endorphin and luteotropin secretion in ewes during the different stages of the reproductive cycle. Misztal T, et al. **Acta Neurobiol Exp (Warsz)** 1996; 56(3):769–78 (32 ref.)

Presence and activity of compounds with GnRH-like activity in the ovary of seabream Sparus aurata. Nabissi M, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R111–7

Distribution of neuropeptide Y and gonadotropin-releasing hormone immunoreactivities in the brain and hypophysis of the ayu, Plecoglossus altivelis (Teleostei). Chiba A, et al. **Arch Histol Cytol** 1996 May;59(2):137–48

Neuroendocrinology of the polycystic ovary syndrome. Soule SG. **Baillieres Clin Endocrinol Metab** 1996 Apr; 10(2):205–19 (59 ref.)

Three forms of gonadotropin-releasing hormone in a perciform fish (Sparus aurata): complementary deoxyribonucleic acid characterization and brain localization. Gothilf Y, et al. **Biol Reprod** 1996 Sep; 55(3):636–45

GnRH signaling in goldfish pituitary cells. Chang JP, et al. **Biol Signals** 1996 Mar–Apr;5(2):70–80 (33 ref.)

Neuroanatomical distribution of chicken-I gonadotropin-releasing hormone (cGnRH-I) in the brain of the male red-sided garter snake. Smith MT, et al. **Brain Behav Evol** 1997;49(3):137–48

Organization of GnRH and FMRF-amide systems in two primitive bony fishes (order polypteriformes). Wright DE, et al. **Brain Behav Evol** 1996;47(5):267–78

Effects of aging on N-methyl-D-aspartate (NMDA)-induced GnRH and LH release in female rats. Arias P, et al. **Brain Res** 1996 Nov 18;740(1–2):234–8

Differential effects of the N-methyl-D-aspartate and non-N-methyl-D-aspartate receptors of the excitatory amino acids system on LH and FSH secretion. Its effects on the hypothalamic luteinizing hormone releasing hormone during maturation in male rats. Carbone S, et al. **Brain Res** 1996 Jan 29;707(2):139–45

Partial characterization of K(+)-induced increase in [Ca2+]cyt and GnRH release in GT1-7 neurons. Javors MA, et al. **Brain Res** 1995 Oct 2;694(1–2):49–54

Peripherin fibers in the main olfactory bulb are different from olfactory fibers and from LHRH fibers: an immunocytochemical and DiI study. Santacana M, et al. **Brain Res** 1996 Sep 23;734(1–2):337–40

Different responses of gonadotropin-releasing hormone (GnRH) release to glutamate receptor agonists during aging. Sortino MA, et al. **Brain Res Bull** 1996;41(6):359–62

Regulation of preoptic area gonadotrophin-releasing hormone (GnRH) mRNA expression by gonadal steroids in the long-term gonadectomized male rat. Spratt DP, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):125–33

Effect of excessive GnRH-binding substance on circulating maternal hCG in human pregnancy. Siler-Khodr TM, et al. **Early Pregnancy** 1997 Mar;3(1):10–4

Signal transduction of GnRH receptor in the reproductive tract tumor. Imai A, et al. **Endocr J** 1996 Jun;43(3):249–60 (139 ref.)

Placental progonadotropin-releasing hormone (pro-GnRH) in the rhesus monkey. Duello TM, et al. **Endocrine** 1997 Feb;6(1):21–4

Inhibin and estradiol alter gonadotropes differentially in ovine pituitary cultures: changing gonadotrope numbers and calcium responses to gonadotropin-releasing hormone. Ghosh BR, et al. **Endocrinology** 1996 Nov;137(11):5144–54

Activation of LH receptors expressed in GnRH neurons stimulates cyclic AMP production and inhibits pulsatile neuropeptide release. Mores N, et al. **Endocrinology** 1996 Dec;137(12):5731–4

Gonadotropin-releasing hormone axons target the median eminence: in vitro evidence for diffusible chemoattractive signals from the mediobasal hypothalamus. Rogers MC, et al. **Endocrinology** 1997 Sep;138(9):3956–66

Expression of gamma-aminobutyric acid and gonadotropin-releasing hormone during neuronal migration through the olfactory system. Tobet SA, et al. **Endocrinology** 1996 Dec;137(12):5415–20

Sexually dimorphic processing of somatosensory and chemosensory inputs to forebrain luteinizing hormone-releasing hormone neurons in mated ferrets. Wersinger SR, et al. **Endocrinology** 1997 Mar;138(3):1121–9

Gonadotropin-releasing hormone (GnRH) content in the median eminence after superior cervical ganglionectomy in ovariectomized and estrogen-treated rats. Dziedzic B, et al. **Exp Clin Endocrinol Diabetes** 1997;105(1):57–62

Androgen regulation of hypothalamic neurons containing gonadotropin-releasing hormone in a cichlid fish: integration with social cues. Soma KK, et al. **Horm Behav** 1996 Sep;30(3):216–26

Identification of immunoreactive mammalian gonadotropin-releasing hormone in the brain of metamorphic larvae of Bufo arenarum Hensel (Amphibia: Anura). Somoza GM, et al. **Int J Dev Neurosci** 1996 Aug; 14(5):663–72

Ultrastructural studies of neuronal correlates of the pubertal reaugmentation of hypothalamic gonadotropin-releasing hormone (GnRH) release in the rhesus monkey (Macaca mulatta). Perera AD, et al. **J Comp Neurol** 1997 Aug 18; 385(1):71–82

Distribution of gonadotropin-releasing hormone immunoreactivity in the brain of Ichthyophis beddomei (Amphibia: Gymnophiona). Pinelli C, et al. **J Comp Neurol** 1997 Jul 28;384(2):283–92

Two populations of luteinizing hormone-releasing hormone neurons in the forebrain of the rhesus macaque during embryonic development. Quanbeck C, et al. **J Comp Neurol** 1997 Apr 14;380(3):293–309

Relationship of gonadotropin-releasing hormone (GnRH) neurons to the olfactory system in developing lamprey (Petromyzon marinus). Tobet SA, et al. **J Comp Neurol** 1996 Dec 2;376(1):97–111

Evidence for a direct neuronal pathway from the suprachiasmatic nucleus to the gonadotropin-releasing hormone system: combined tracing and light and electron microscopic immunocytochemical studies. Van der Beek EM, et al. **J Comp Neurol** 1997 Aug 11;384(4):569–79

Binding of Cu2+, Zn2+, and Ni(2+)-GnRH complexes with the rat pituitary receptor. Kochman K, et al. **J Inorg Biochem** 1997 Mar;65(4):277–9

Fos expression by naloxone in LHRH neurons of the mediobasal hypothalamus and effects of pentobarbital sodium in the proestrous rat. Funabashi T, et al. **J Neuroendocrinol** 1997 Feb;9(2):87–92

Influence of testosterone on LHRH release, LHRH mRNA and proopiomelanocortin mRNA in male sheep. Hileman SM, et al. **J Neuroendocrinol** 1996 Feb;8(2):113–21

Synthesis of C-type natriuretic peptide (CNP) by immortalized LHRH cells. Middendorff R, et al. **J Neuroendocrinol** 1997 Mar;9(3):177–82

Gonadotropin-releasing hormone and NMDA receptor gene expression and colocalization change during puberty in female rats. Gore AC, et al. **J Neurosci** 1996 Sep 1; 16(17):5281–9

Ocular membrane permeability of hydrophilic drugs for ocular peptide delivery. Sasaki H, et al. **J Pharm Pharmacol** 1997 Feb;49(2):135–9

Lipopolysaccharide-induced suppression of the hypothalamic gonadotropin-releasing hormone pulse generator in ovariectomized goats. Takeuchi Y, et al. **J Vet Med Sci** 1997 Feb;59(2):93–6

Erratum to "Molecular cloning of c-jun and c-fox cDNAs from porcine anterior pituitary and their involvement in gonadotropin-releasing hormone stimulation" [Mol. Cell. Endocrinol. 119 (1996) 77] Chung HO, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):113–4

Inhibition of gonadotropin-releasing hormone receptor signaling by expression of a splice variant of the human receptor. Grosse R, et al. **Mol Endocrinol** 1997 Aug; 11(9):1305–18

Regulation of gonadotropin-releasing hormone (GnRH) gene expression by insulin-like growth factor I in a cultured GnRH-expressing neuronal cell line. Zhen S, et al. **Mol Endocrinol** 1997 Jul;11(8):1145–55

Measurement of luteal and placental gonadotrophin-releasing hormone (GnRH) binding sites: role of inactivation of GnRH tracer. Bramley TA, et al. **Mol Hum Reprod** 1996 Jul;2(7):535–9

Regulation of chicken gonadotropin-releasing hormone-I mRNA in incubating, nest-deprived and laying bantam hens. Dunn IC, et al. **Neuroendocrinology** 1996 Jun; 63(6):504–13

Androgen receptor-immunoreactive cells in ram hypothalamus: distribution and co-localization patterns with gonadotropin-releasing hormone, somatostatin and tyrosine hydroxylase. Herbison AE, et al. **Neuroendocrinology** 1996 Feb;63(2):120–31

Upregulation of gap junctional intercellular communication in immortalized gonadotropin-releasing hormone neurons by stimulation of the cyclic AMP pathway. Matesic DF, et al. **Neuroendocrinology** 1996 Oct;64(4):286–97

Immortalized GnRH neurons express large-conductance calcium-activated potassium channels. Spergel DJ, et al. **Neuroendocrinology** 1996 Feb;63(2):101–11

Steroid modulation of neuropeptide Y-induced luteinizing hormone releasing hormone release from median eminence fragments from male rats. Urban JH, et al. **Neuroendocrinology** 1996 Feb;63(2):112–9

The LHRH-astroglial network of signals as a model to study neuroimmune interactions: assessment of messenger systems and transduction mechanisms at cellular and molecular levels. Marchetti B. **Neuroimmunomodulation** 1996 Jan-Feb;3(1):1–27 (179 ref.)

Luteinizing hormone-releasing hormone in undifferentiated and differentiated SK-N-SH human neuroblastoma cells. Ratka A, et al. **Neuropeptides** 1996 Feb;30(1):87–94

Bicuculline infusion advances the timing of Fos expression in LHRH neurons in the preoptic area of proestrous rats. Funabashi T, et al. **Neuroreport** 1997 Feb 10;8(3):771–4

In situ hybridization for two differentially expressed GnRH genes following estrogen and triiodothyronine treatment in the brains of juvenile tilapia (cichlid). Parhar IS, et al. **Neurosci Lett** 1996 Nov 1;218(2):135–8

Endothelin B receptor-like immunoreactivity is associated with LHRH-immunoreactive fibers in the rat hypothalamus. Yamamoto T, et al. **Neurosci Lett** 1997 Feb 21;223(2):117–20

Circadian control of reproduction in the female rat. van der Beek EM. **Prog Brain Res** 1996;111:295–320 (172 ref.)

PHARMACOLOGY

Gonadectomy modifies the gender specific pattern of desensitization of pituitary cells by gonadotropin-releasing hormone in the superfusion system. Horváth JE, et al. **Acta Biol Hung** 1996;47(1–4):195–205

Gi protein activation of gonadotropin-releasing hormone-mediated protein dephosphorylation in human endometrial carcinoma. Imai A, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):371–6

Effects of gonadotropin-releasing hormone agonist (GnRHa) and ovariectomy on leukocyte subpopulations in rats with autotransplanted endometrium. Matsubayashi H, et al. **Am J Reprod Immunol** 1996 Jul;36(1):40–8

Effects of cis-platinum and luteinizing hormone releasing hormone analogues on rat spermatogenesis. A morphologic and flow cytometric study. Scott CA, et al. **Anal Quant Cytol Histol** 1996 Oct;18(5):361–73

Effects of pure human follicle-stimulating hormone (pFSH) on sperm quality correlate with the hypophyseal response to gonadotrophin-releasing hormone (GnRH). Glander HJ, et al. **Andrologia** 1997 Jan-Feb;29(1):23–8

Effect of progesterone pre-treatment on steroid secretion rates and follicular fluid insulin-like growth factor-1 concentrations in seasonally anoestrous ewes treated with gonadotrophin releasing hormone. Khalid M, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):69–78

Functional interaction between gonadotropin-releasing hormone and PACAP in gonadotropes and alpha T3-1 cells. McArdle CA. **Ann N Y Acad Sci** 1996 Dec 26; 805:112–20; discussion 120–1

Effects of GnRH and PACAP on gonadotropin secretion and subunit messenger RNAs. Winters SJ, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:343–52; discussion 352–4 (30 ref.)

Suppression of testicular function using two dose rates of a reversible water soluble gonadotrophin releasing hormone (GnRH) vaccine in colts. Dowsett KF, et al. **Aust Vet J** 1996 Sep;74(3):228–35

Characteristics of luteinizing hormone (LH) and testosterone secretion, pituitary responses to LH-releasing hormone (LHRH), and reproductive function in young bulls receiving the LHRH agonist deslorelin: effect of castration on LH responses to LHRH. D'Occhio MJ, et al. **Biol Reprod** 1996 Jan;54(1):45–52

Extra- and intracellular effects of divergent selection for pituitary responsiveness to gonadotropin-releasing hormone in prepubertal ram lambs. Evans NP, et al. **Biol Reprod** 1997 Jul;57(1):128–33

Gonadotropin-releasing hormone-stimulated calcium mobilization is altered in pituitary cultures from anestrous ewes. Ghosh BR, et al. **Biol Reprod** 1996 Apr;54(4):753–60

Immunization against growth hormone releasing factor or chronic feed restriction initiated at 3.5 months of age reduces ovarian response to pulsatile administration of gonadotropin-releasing hormone at 6 months of age and delays onset of puberty in heifers. Schoppee PD, et al. **Biol Reprod** 1996 Jul;55(1):87–98

Differential pituitary and gonadal function of Chinese Meishan and European white composite boars: effects of gonadotropin-releasing hormone stimulation, castration, and steroidal feedback. Wise T, et al. **Biol Reprod** 1996 Jan;54(1):146–53

Effect of age of donor on the responsiveness of dispersed and cultured chicken anterior pituitary cells to GnRH-I. Liu RC, et al. **Br Poult Sci** 1996 May;37(2):451–63

Effect of gonadotropin releasing hormone on thermoregulatory vasomotor activity in ovariectomized female rats. Hosono T, et al. **Brain Res** 1997 Apr 18; 754(1–2):88–94

Gonadotropin releasing hormone modulates gamma-aminobutyric acid-evoked intracellular calcium increase in immortalized hypothalamic gonadotropin releasing hormone neurons. Sun W, et al. **Brain Res** 1997 Jan 30;747(1):70–7

Thyrotropin releasing hormone injected into the nucleus accumbens septi selectively increases face grooming in rats. Gargiulo PA. **Braz J Med Biol Res** 1996 Jun;29(6):805–10

Distinct grooming patterns induced by intracerebroventricular injection of CRH, TRH and LHRH in male rats. Gargiulo PA, et al. **Braz J Med Biol Res** 1996 Mar;29(3):375–9

Spontaneous and gonadotropin-releasing hormone-stimulated cytosolic calcium rises in individual goldfish gonadotrophs. Mollard P, et al. **Cell Calcium** 1996 Nov;20(5):415–24

Effect of gonadotropin-releasing hormone on estrogen receptor messenger ribonucleic acid level in perifused pituitary cells. Demay F, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):397–402

Modulatory effects of gonadorelin on GABA-induced depolarization and GABA-activated current in rat spinal ganglion neurons. Zhou XP, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):31–4

Depressed luteinizing hormone response to estradiol in vivo and gonadotropin-releasing hormone in vitro in experimentally diabetic swine. Angell CA, et al. **Domest Anim Endocrinol** 1996 Sep;13(5):453–63

Effects of short-term treatment of a gonadotropin-releasing hormone agonist on the follicular development and gonadotropin secretion in the rat. Krishna A, et al. **Endocr Res** 1996 Aug;22(3):299–310

GnRH receptors and GnRH endocrine effects on luteoma cells. Chamson-Reig A, et al. **Endocrine** 1997 Apr; 6(2):165–71

Gonadotropin-releasing hormone and pituitary adenylate cyclase-activating polypeptide affect levels of cyclic adenosine 3',5'-monophosphate-dependent protein kinase A (PKA) subunits in the clonal gonadotrope alphaT3-1 cells: evidence for cross-talk between PKA and protein kinase C pathways. Garrel G, et al. **Endocrinology** 1997 Jun;138(6):2259–66

Inhibin and estradiol alter gonadotropes differentially in ovine pituitary cultures: changing gonadotrope numbers and calcium responses to gonadotropin-releasing hormone. Ghosh BR, et al. **Endocrinology** 1996 Nov;137(11):5144–54

GnRH regulates steroidogenic factor-1 (SF-1) gene expression in the rat pituitary. Haisenleder DJ, et al. **Endocrinology** 1996 Dec;137(12):5719–22

Potential role for a regulator of G protein signaling (RGS3) in gonadotropin-releasing hormone (GnRH) stimulated desensitization. Neill JD, et al. **Endocrinology** 1997 Feb; 138(2):843–6

Expression of ryanodine receptors in the pituitary gland: evidence for a role in gonadotropin-releasing hormone signaling. Sundaresan S, et al. **Endocrinology** 1997 May; 138(5):2056–65

Testosterone acts directly at the pituitary to regulate gonadotropin-releasing hormone-induced calcium signals in male rat gonadotropes. Tobin VA, et al. **Endocrinology** 1997 Aug;138(8):3314–9

Lack of suppressive action of luteal factors from sheep corpus luteum on LH response to exogenous LHRH in ovariectomized, pregnant and post-partum ewes. Al-Gubory KH. **Eur J Endocrinol** 1997 Jan;136(1):114–20

Modulatory actions of progesterone on gonadotropin-releasing hormone-induced arachidonic acid liberation from perifused rat pituitary cells. Ortmann O, et al. **Eur J Endocrinol** 1996 Nov;135(5):626–30

Effects of gonadotropin-releasing hormone on bioactivity of follicle-stimulating hormone (FSH) and microstructure of FSH, luteinizing hormone and sex hormone-binding globulin in a testosterone-based contraceptive trial: evaluation of responders and non-responders. Simoni M, et al. **Eur J Endocrinol** 1996 Oct;135(4):433–9

Contrasts in the gonadotropin-releasing hormone dose-response relationships for luteinizing hormone, follicle-stimulating hormone and alpha-subunit release in young versus older men: appraisal with high-specificity immunoradiometric assay and deconvolution analysis. Zwart AD, et al. **Eur J Endocrinol** 1996 Oct;135(4):399–406

Differences in the acute actions of sGnRH and cGnRH-II on gonadotropin release in goldfish pituitary cells. Chang JP, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):339–54

The effects of N-methyl-D,L-aspartate and gonadotropin-releasing hormone on in vitro growth hormone release in steroid-primed immature rainbow trout, Oncorhynchus mykiss. Holloway AC, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):32–43

Melatonin influences gonadotropin II secretion in the Atlantic croaker (Micropogonias undulatus). Khan IA, et al. **Gen Comp Endocrinol** 1996 Nov;104(2):231–42

Sexually differentiated role of calcium ions in chicken GnRH-I-stimulated release of LH from anterior pituitary glands from adult domestic chickens. Liu RC, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):267–72

Enhancement by prolactin of the GnRH-induced release of LH from dispersed anterior pituitary cells of the bullfrog (Rana catesbeiana). Oguchi A, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):128–35

The effect of chronic testosterone administration on sturgeon gonadotropins in juvenile and pre-vitellogenic white sturgeon (Acipenser transmontanus). Pavlick RJ, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):218–27

Changes in pituitary response to gonadotropin-releasing hormone following bilateral ovariectomy in women treated with follicle-stimulating hormone. Messinis IE, et al. **Gynecol Endocrinol** 1996 Dec;10(6):383–90

Effect of luteinizing hormone-releasing hormone analogs on the rat ovarian follicle development. Yano T, et al. **Horm Res** 1997;48 Suppl 3:35–41

Effect of mifepristone (RU486) on the pituitary response to gonadotrophin releasing hormone in women. Kazem R, et al. **Hum Reprod** 1996 Dec;11(12):2585–90

LHRH induced changes in the interrenal gland of the frog Rana cyanophlyctis (Schn.). Yajurvedi HN, et al. **Indian J Exp Biol** 1996 Oct;34(10):991–4

Systemically administered gonadotrophin-releasing hormone enhances copulatory behaviour in castrated, testosterone-treated hyperprolactinaemic male rats. Dennison E, et al. **Int J Androl** 1996 Aug;19(4):253–9

The effects of gonadotropin-releasing hormone immunization and recombinant follicle-stimulating hormone on the Leydig cell and macrophage populations of the adult rat testis. Duckett RJ, et al. **J Androl** 1997 Jul-Aug; 18(4):417–23

Gonadotropin-releasing hormone enhances the calving rate of beef females administered norgestomet and alfaprostol for estrus synchronization. doValle ER, et al. **J Anim Sci** 1997 Apr;75(4):897–903

Luteal function in unilaterally hysterectomized ewes treated with gonadotropin-releasing hormone. Whitmore DL, et al. **J Anim Sci** 1996 Aug;74(8):1930–5

Significance of an abnormal response during pituitary desensitization in an in vitro fertilization and embryo transfer program. Goswami SK, et al. **J Assist Reprod Genet** 1996 May;13(5):374–80

Restoration of growth hormone (GH) response to GH-releasing hormone in elderly and obese subjects by acute pharmacological reduction of plasma free fatty acids. Pontiroli AE, et al. **J Clin Endocrinol Metab** 1996 Nov;

81(11):3998–4001
Effect of gonadotropin-releasing hormone at estrus on subsequent luteal function and fertility in lactating Holsteins during heat stress. Ullah G, et al. **J Dairy Sci** 1996 Nov;79(11):1950–3
Jurkat cell proliferative activity is increased by luteinizing hormone-releasing hormone. Azad N, et al. **J Endocrinol** 1997 May;153(2):241–9
Gonadotrophs but not somatotrophs carry gonadotrophin-releasing hormone receptors: receptor localisation, intracellular calcium, and gonadotrophin and GH release. Bosma PT, et al. **J Endocrinol** 1997 Mar; 152(3):437–46
Pituitary and gonadal responses to the long-term pulsatile administration of gonadotrophin-releasing hormone in fetal sheep. Thomas GB, et al. **J Endocrinol** 1997 Jun; 153(3):385–91
Progesterone receptor participates in the stimulatory effect of LHRH, prostaglandin E2, and cyclic AMP on lordosis and proceptive behaviours in rats. Beyer C, et al. **J Neuroendocrinol** 1997 Aug;9(8):609–14
Melatonin inhibits GnRH-induced increase of cFOS immunoreactivity in neonatal rat pituitary. Sumova A, et al. **J Neuroendocrinol** 1997 Feb;9(2):135–9
Extracellular sodium dependence of GnRH-stimulated growth hormone release in goldfish pituitary cells. Van Goor F, et al. **J Neuroendocrinol** 1997 Mar;9(3):207–16
GHRP-2, GHRH and SRIF interrelationships during chronic administration of GHRP-2 to humans. Bowers CY, et al. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:261–70
Comparative study between pony mares and ewes evaluating gonadotrophic response to administration of gonadotrophin-releasing hormone. Porter MB, et al. **J Reprod Fertil** 1997 Jul;110(2):219–29
Inhibition of nitric oxide facilitates LH release from rat pituitaries. Chatterjee S, et al. **Life Sci** 1997;61(1):45–50
Gonadotropin-releasing hormone analog plus an oral contraceptive containing desogestrel in women with severe hirsutism: effects on hair, bone, and hormone profile after 1-year use. Castelo-Branco C, et al. **Metabolism** 1997 Apr; 46(4):437–40
Molecular cloning of c-jun and c-fos cDNAs from porcine anterior pituitary and their involvement in gonadotropin-releasing hormone stimulation [published erratum appears in Mol Cell Endocrinol 1996 Aug 30;122(1):113–4] Chung HO, et al. **Mol Cell Endocrinol** 1996 May 17;119(1):75–82
Novel independent and synergistic regulation of gonadotropin-alpha subunit gene by luteinizing hormone/human choriogonadotropin and gonadotropin releasing hormone in the alphaT3–1 gonadotrope cells. Huang ZH, et al. **Mol Cell Endocrinol** 1997 Jun 20; 130(1–2):23–31
Selective translocation of non-conventional protein kinase C isoenzymes by gonadotropin-releasing hormone (GnRH) in the gonadotrope-derived alpha T3–1 cell line. Kratzmeier M, et al. **Mol Cell Endocrinol** 1996 Apr 19; 118(1–2):103–11
Differential involvement of calcium channels and protein kinase-C activity in GnRH-induced phospholipase-C, -A2 and -D activation in a gonadotrope cell line (alpha T3-1). Poulin B, et al. **Mol Cell Endocrinol** 1996 Aug 30; 122(1):33–50
Gonadotrophin-releasing hormone and triptorelin inhibit the follicle stimulating hormone-induced response in human primary cultured granulosa-lutein cells. Furger C, et al. **Mol Hum Reprod** 1996 Apr;2(4):259–64
Inhibitory effect of gonadotrophin-releasing hormone (GnRH) on rat granulosa cell deoxyribonucleic acid synthesis. Saragüeta PE, et al. **Mol Reprod Dev** 1997 Jun; 47(2):170–4
Evidence to suggest that gonadotropin-releasing hormone inhibits its own secretion by affecting hypothalamic amino acid neurotransmitter release. Feleder C, et al. **Neuroendocrinology** 1996 Oct;64(4):298–304
Differential effects of gonadotropin-releasing hormone, dopamine and somatostatin and their second messengers on the mRNA levels of gonadotropin II beta subunit and growth hormone in the teleost fish, tilapia. Melamed P, et al. **Neuroendocrinology** 1996 Oct;64(4):320–8
GnRH-stimulated glycosylation (proximal and distal) of luteinizing hormone by cultured rat pituitary cells. Pérez GT, et al. **Neuroendocrinology** 1996 Dec;64(6):456–61
Contour of the GnRH pulse independently modulates gonadotropin secretion in the human male. Pralong FP, et al. **Neuroendocrinology** 1996 Sep;64(3):247–56
Inhibitory effect of melatonin on gonadotropin-releasing hormone-induced Ca2+ oscillations in pituitary cells of newborn rats. Zemková H, et al. **Neuroendocrinology** 1997 Apr;65(4):276–83
Local Ca2+ release from internal stores controls exocytosis in pituitary gonadotrophs. Tse FW, et al. **Neuron** 1997 Jan; 18(1):121–32
Mediation by nitric oxide of LH-RH-stimulated gonadotropin secretions in human subjects. Chiodera P, et al. **Neuropeptides** 1995 Dec;29(6):321–4
Luteinizing hormone-releasing hormone (LHRH) attenuates morphine-induced inhibition of cyclic AMP (cAMP) in opioid-responsive SK-N-SH cells. Ratka A, et al. **Neuropeptides** 1997 Apr;31(2):113–7
Reduction of the amplitude of preovulatory LH and FSH surges and of the amplitude of the in vitro GnRH-induced LH release by substance P. Reversal of the effect by RP 67580. Duval P, et al. **Neuropharmacology** 1996; 35(12):1805–10
GnRH inhibits neuronal activity in the ventral tegmental area of the estrogen-primed ovariectomized rat. Suga S, et al. **Neurosci Lett** 1997 May 30;228(1):13–6
LH responses to single doses of exogenous GnRH by social Mashona mole-rats: a continuum of socially induced infertility in the family Bathyergidae. Bennett NC, et al. **Proc R Soc Lond B Biol Sci** 1997 Jul 22;264(1384):1001–6
Synergistic activation of androgen receptor by androgen and luteinizing hormone-releasing hormone in prostatic carcinoma cells. Culig Z, et al. **Prostate** 1997 Jul 1; 32(2):106–14
LHRH and somatostatin effects on the cell proliferation of the gastric epithelium of suckling and weaning rats. Gama P, et al. **Regul Pept** 1996 Jul 5;63(2–3):73–8
Effect of gonadoreline and naloxone on induction of ovulation and plasma LH in rabbit. Rebollar PG, et al. **Rev Esp Fisiol** 1997 Jun;53(2):205–10
Growth factors in steroid-responsive prostatic tumor cells. Dondi D, et al. **Steroids** 1996 Apr;61(4):222–5
Neo-adjuvant GnRH therapy and radical prostatectomy: effects on tumorous and benign tissue volumes – a morphometric study. Brändstedt S, et al. **Urol Res** 1997; 25(1):43–7
Effect of GnRH and hCG on ovulation and pregnancy in mares. Kilicarslan MR, et al. **Vet Rec** 1996 Aug 3; 139(5):119–20
Pituitary and ovarian response to PMSG and GnRH of a gonadal dysgenetic buffalo. Singh C, et al. **Vet Rec** 1997 May 17;140(20):533
[Effects of gonadotropin-releasing hormone and its analogue (buserelin) on aromatase in cultured human granulosa cells] Maeda K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb;48(2):89–95 (Eng. Abstr.) **(Jpn)**
[Biological activity of analogs of peptide hormone luliberin in the regulation of immune response of T lymphocytes] Kazakova TB, et al. **Biull Eksp Biol Med** 1996 Sep; 122(9):334–7 **(Rus)**

PHYSIOLOGY

Neural systems mediating the negative feedback actions of estradiol and progesterone in the ewe. Goodman RL. **Acta Neurobiol Exp (Warsz)** 1996;56(3):727–41 (85 ref.)
Feedback actions of estradiol on GnRH secretion during the follicular phase of the estrous cycle. Karsch FJ, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):715–25 (35 ref.)
Stress and nutritional influences on GnRH and somatostatin neuronal systems in the ewe. Polkowska J. **Acta Neurobiol Exp (Warsz)** 1996;56(3):797–806 (38 ref.)
The neurochemistry of the GnRH pulse generator. Wuttke W, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):707–13 (21 ref.)
Normal or induced secretory patterns of luteinising hormone and follicle-stimulating hormone in anoestrous gonadotrophin-releasing hormone-immunised and cyclic control heifers. Prendiville DJ, et al. **Anim Reprod Sci** 1996 Dec 16;45(3):177–90
GnRH in pregnancy. Gohar J, et al. **Arch Gynecol Obstet** 1996;259(1):1–6 (45 ref.)
Identification and distribution of neuroendocrine gonadotropin-releasing hormone neurons in the ewe. Jansen HT, et al. **Biol Reprod** 1997 Mar;56(3):655–62
Gonadotropin-releasing hormone requirements for ovulation. Karsch FJ, et al. **Biol Reprod** 1997 Feb;56(2):303–9 (62 ref.)
Photoperiod and steroid-dependent adjustments in hypothalamic gonadotropic hormone-releasing hormone, dopamine, and norepinephrine content in male deer mice. Korytko AI, et al. **Biol Reprod** 1997 Mar;56(3):617–24
Alpha1-adrenergic receptor blockade blocks LH secretion but not LHRH cFos activation. Le WW, et al. **Brain Res** 1997 Feb 7;747(2):236–45
Steroid imprinting and modulation of sexual dimorphism in the luteinizing hormone-releasing hormone neuronal system. López FJ, et al. **Cell Mol Neurobiol** 1996 Apr; 16(2):129–41 (30 ref.)
Effects of adjuvant, dose and carrier pre-sensitisation on the immunisation efficacy of a GnRH analogue. Ferro VA, et al. **Drug Des Discov** 1996 Dec;14(3):179–95
Tumor necrosis factor-alpha mediates endotoxin induced suppression of gonadotropin-releasing hormone pulse generator activity in the rat. Yoo MJ, et al. **Endocr J** 1997 Feb;44(1):141–8
Molecular mechanisms of ligand interaction with the gonadotropin-releasing hormone receptor. Sealfon SC, et al. **Endocr Rev** 1997 Apr;18(2):180–205 (237 ref.)
Gonadotropin-releasing hormone regulates follicle-stimulating hormone-beta gene expression through an activin/follistatin autocrine or paracrine loop. Besecke LM, et al. **Endocrinology** 1996 Sep;137(9):3667–73
Sexual differentiation of galanin gene expression in gonadotropin-releasing hormone neurons. Finn PD, et al. **Endocrinology** 1996 Nov;137(11):4767–72
Expression of a murine gonadotropin-releasing hormone receptor-luciferase fusion gene in transgenic mice is diminished by immunoneutralization of gonadotropin-releasing hormone. McCue JM, et al. **Endocrinology** 1997 Aug;138(8):3154–60
Effect of immune and metabolic challenges on the luteinizing hormone-releasing hormone neuronal system in cycling female rats: an evaluation at the transcriptional level. Nappi RE, et al. **Endocrinology** 1997 Apr;138(4):1374–84
Distinct efficacies for two endogenous ligands on a single cognate gonadoliberin receptor. Tensen C, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):134–40
Reproduction in the Mexican leaf frog, Pachymedusa dacnicolor. VI. Presence and distribution of multiple GnRH forms in the brain. Iela L, et al. **Gen Comp Endocrinol** 1996 Sep;103(3):235–43
Galanin gene expression in hypothalamic GnRH-containing neurons of the rat: a model for autocrine regulation. Rossmanith WG, et al. **Horm Metab Res** 1996 Jun; 28(6):257–66 (64 ref.)
Differential activation of protein kinase C delta and epsilon gene expression by gonadotropin-releasing hormone in alphaT3-1 cells. Autoregulation by protein kinase C. Harris D, et al. **J Biol Chem** 1997 May 23;272(21):13534–40
Desensitization of gonadotropin-releasing hormone action in alphaT3-1 cells due to uncoupling of inositol 1,4,5-trisphosphate generation and Ca2+ mobilization. McArdle CA, et al. **J Biol Chem** 1996 Sep 27; 271(39):23711–7
The interactive language of the hypothalamus for the gonadotropin releasing hormone (GNRH) system. Kalra SP, et al. **J Neuroendocrinol** 1997 Aug;9(8):569–76 (96 ref.)
Inhibition of steroid-induced galanin mRNA expression in GnRH neurons by specific NMDA-receptor blockade. Rossmanith WG, et al. **J Neuroendocrinol** 1996 Mar; 8(3):179–84
Induction of galanin mRNA in GnRH neurons by estradiol and its facilitation by progesterone. Rossmanith WG, et al. **J Neuroendocrinol** 1996 Mar;8(3):185–91
Growth hormone-releasing hormone (GHRH)–GH-somatic growth and luteinizing hormone (LH)RH–LH-ovarian axes in adult female transgenic mice expressing human GH gene. Sasaki F, et al. **J Neuroendocrinol** 1997 Aug; 9(8):615–26
Effects of ovariectomy on GnRH neuronal morphology in rhesus monkey (Macaca mulatta). Witkin JW. **J Neuroendocrinol** 1996 Aug;8(8):601–4
Prenatal androgens defeminize activation of GnRH neurons in response to estradiol stimulation. Wood RI, et al. **J Neuroendocrinol** 1996 Aug;8(8):617–25
Characterization of TTX-resistant persistent Na+ current underlying pacemaker potentials of fish gonadotropin-releasing hormone (GnRH) neurons. Oka Y. **J Neurophysiol** 1996 Jun;75(6):2397–404
Growth hormone-releasing hormone triggers pacemaker activity and persistent Ca2+ oscillations in rat somatotrophs. Kwiecien R, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):613–23
Dependence of agonist activation on an aromatic moiety in the DPLIY motif of the gonadotropin-releasing hormone receptor. Arora KK, et al. **Mol Endocrinol** 1996 Aug; 10(8):979–86
On the role of gonadotropin-releasing hormone (GnRH) in the operation of the GnRH pulse generator in the rhesus monkey. Ordög T, et al. **Neuroendocrinology** 1997 May; 65(5):307–13
Three daily melatonin infusions alter gonadal development but not GnRH neuron number in the medial preoptic area or diagonal band of Broca in Siberian hamsters. Gorman MR, et al. **Neurosci Lett** 1996 Jun 7;210(3):165–8
Gonadotropin antagonist modulates courtship behavior in male red-sided garter snakes, Thamnophis sirtalis parietalis. Smith MT, et al. **Physiol Behav** 1997 Jan;61(1):137–43
Targeting transforming growth factor alpha expression to discrete loci of the neuroendocrine brain induces female sexual precocity. Rage F, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2735–40
Evidence that the posterior pituitary plays a role in neuropeptide Y and luteinizing hormone-releasing hormone-stimulated gonadotropin secretion in vitro. O'Conner JL, et al. **Proc Soc Exp Biol Med** 1996 Oct; 213(1):59–64
Gonadotropin-releasing hormone neurons: their structure and function. Hoffman GE, et al. **Semin Reprod Endocrinol** 1997 Feb;15(1):5–17

SECRETION

Effect of Equine Hypothalamic Extract on hormone secretion by the adenohypophysis of rats. Quintanar-Stephano A, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):91–6
Ethanol-induced alterations in the posttranslational processing, but not secretion of luteinizing hormone-releasing hormone in vitro. Uddin S, et al. **Alcohol Clin Exp Res** 1996 May;20(3):556–60
Opiatergic influence on gonadotropin-releasing hormone and luteinizing hormone release during the macaque menstrual cycle. Pau KY, et al. **Biol Reprod** 1996 Aug;55(2):478–84
Coital and estrogen signals: a contrast in the preovulatory neuroendocrine networks of rabbits and rhesus monkeys. Spies HG, et al. **Biol Reprod** 1997 Feb;56(2):310–9 (157 ref.)
Pulsatile secretion of hormones: significance and a tentative idea of future research. Lei H. **Chin Med J (Engl)** 1996 Jul;109(7):499–500 (0 ref.)
Effects of noradrenaline on GnRH-secreting immortalized hypothalamic (GT1-7) neurons. Uemura T, et al. **Endocr J** 1997 Feb;44(1):73–8
How much of the gonadotropin-releasing hormone (GnRH) surge is required for generation of the luteinizing hormone

surge in the ewe? Duration of the endogenous GnRH signal. Evans NP, et al. **Endocrinology** 1996 Nov; 137(11):4730–7

Hypothalamic astrocytes respond to transforming growth factor–alpha with the secretion of neuroactive substances that stimulate the release of luteinizing hormone–releasing hormone. Ma YJ, et al. **Endocrinology** 1997 Jan; 138(1):19–25

Evidence for seasonal plasticity in the gonadotropin–releasing hormone (GnRH) system of the ewe: changes in synaptic inputs onto GnRH neurons. Xiong JJ, et al. **Endocrinology** 1997 Mar;138(3):1240–50

Women with functional hypothalamic amenorrhea but not other forms of anovulation display amplified cortisol concentrations. Berga SL, et al. **Fertil Steril** 1997 Jun; 67(6):1024–30

Control of gonadotropin feedback: the possible role of estrogen–induced hypothalamic synaptic plasticity. Horvath TL, et al. **Gynecol Endocrinol** 1997 Apr; 11(2):139–43 (12 ref.)

Current concepts on ultradian rhythms of luteinizing hormone secretion in the human. Bergendahl M, et al. **Hum Reprod Update** 1996 Nov–Dec;2(6):507–18 (106 ref.)

Amino acid neurotransmission and initiation of puberty: evidence from nonketotic hyperglycinemia in a female infant and gonadotropin–releasing hormone secretion by rat hypothalamic explants. Bourguignon JP, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1899–903

Migration of luteinizing hormone–releasing hormone (LHRH) neurons in early human embryos. Schwanzel–Fukuda M, et al. **J Comp Neurol** 1996 Mar 11; 366(3):547–57

Interaction between prolactin and catecholamines on hypothalamic GnRH release in vitro. Calogero AE, et al. **J Endocrinol** 1996 Nov;151(2):269–75

FOS expression in grafted gonadotropin–releasing hormone neurons in hypogonadal mouse: mating and steroid induction. Wu TJ, et al. **J Neurobiol** 1996 Sep;31(1):67–76

Duality of glutamatergic and GABAergic control of pulsatile GnRH secretion by rat hypothalamic explants: I. Effects of antisense oligodeoxynucleotides using explants including or excluding the preoptic area. Bourguignon JP, et al. **J Neuroendocrinol** 1997 Mar;9(3):183–91

Duality of glutamatergic and GABAergic control of pulsatile GnRH secretion by rat hypothalamic explants: II. Reduced NR2C– and GABAA–receptor–mediated inhibition at initiation of sexual maturation. Bourguignon JP, et al. **J Neuroendocrinol** 1997 Mar;9(3):193–9

Sexual differentiation of the surge mode of gonadotropin secretion: prenatal androgens abolish the gonadotropin–releasing hormone surge in the sheep. Herbosa CG, et al. **J Neuroendocrinol** 1996 Aug;8(8):627–33

The effect of pentobarbital on the electrical activity of LHRH pulse generator in the ovariectomized rat with or without estrogen priming. Kimura F, et al. **J Neuroendocrinol** 1995 Dec;7(12):911–5

LHRH pulse generator is stimulated by naloxone in the pentobarbital–blocked proestrous rat. Kimura F, et al. **J Neuroendocrinol** 1995 Dec;7(12):917–22

Differential LHRH secretion, dye coupling, and protein expression in two morphologically distinct cell types identified in GT1–7 cultures. Matesic D, et al. **J Neuroendocrinol** 1997 Jun;9(6):467–78

Effect of melatonin on the release of gonadotropin–releasing hormone and cyclic AMP from the rat hypothalamus: an in vitro study. Messager S, et al. **J Neuroendocrinol** 1996 Oct;8(10):801–7

Patterns of secretion of GnRH, LH and FSH during the postovulatory period in mares: mechanisms prolonging the LH surge. Irvine CH, et al. **J Reprod Fertil** 1997 Mar; 109(2):263–71

The GABAergic control of gonadotropin–releasing hormone secretion in male rats during sexual maturation involves effects on hypothalamic excitatory and inhibitory amino acid systems. Feleder C, et al. **Neuroendocrinology** 1996 Oct;64(4):305–12

Pheromone–induced stimulation of hypothalamic gonadotropin–releasing hormone pulse generator in ovariectomized, estrogen–primed goats. Hamada T, et al. **Neuroendocrinology** 1996 Oct;64(4):313–9

Effects of endotoxin on in vitro release of LHRH and amino acid neurotransmitters by preoptic mediobasal hypothalamic fragments. Feleder C, et al. **Neuroimmunomodulation** 1996 Mar–Jun;3(2–3):76–81

Cellular basis of the GnRH pulse generator. Weiner RI. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug;48(8):573–7 (22 ref.)

Oxytocin stimulates the release of luteinizing hormone–releasing hormone from medial basal hypothalamic explants by releasing nitric oxide. Rettori V, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2741–4

Dependence of intracellular signaling and neurosecretion on phospholipase D activation in immortalized gonadotropin–releasing hormone neurons. Zheng L, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1573–8

alpha–difluoromethylornithine modifies gonadotropin–releasing hormone release and follicle–stimulating hormone secretion in the immature female rat. Thyssen SM, et al. **Proc Soc Exp Biol Med** 1997 Jun;215(2):192–7

[Estrogen challenge test] Miyake A, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:265–7 (3 ref.) **(Jpn)**

THERAPEUTIC USE

The suppression of peritoneal cellular immunity in women with endometriosis could be restored after gonadotropin releasing hormone agonist treatment. Wu MY, et al. **Am J Reprod Immunol** 1996 Jun;35(6):510–6

Recent advances in the medical management of prostate cancer [see comments] Kirby RS. **Br J Clin Pract** 1996 Mar;50(2):88–93 (57 ref.). Comment in: Br J Clin Pract 1996 Jul–Aug;50(5):287.

Hypogonadotropic hypogonadism: gonadotropin–releasing hormone therapy. Whitcomb RW, et al. **Curr Ther Endocrinol Metab** 1997;6:353–5 (9 ref.)

Combined GH and LHRH analog treatment in short children. Tanaka T, et al. **Endocr J** 1996 Oct;43 Suppl:S13–7 (8 ref.)

Prognostic significance of prostate–specific antigen levels two months after hormonal manipulation of metastatic prostate cancer. Kawakami S, et al. **Eur Urol** 1997; 32(1):58–63

Tolerability and safety of flutamide in monotherapy, with orchiectomy or with LHRH–a in advanced prostate cancer patients. A Belgian multicenter study of 905 patients. Oosterlinck W, et al. **Eur Urol** 1996;30(4):458–63

Effects of neoadjuvant androgen deprivation therapy on prostatic cancer. Polito M, et al. **Eur Urol** 1996;30 Suppl 1:26–31; discussion 38–9

GnRH analogues in the treatment of uterine fibroids. Golan A. **Hum Reprod** 1996 Nov;11 Suppl 3:33–41 (31 ref.)

Blood flow changes in the uterus induced by treatment with GnRH analogues. Shaw RW. **Hum Reprod** 1996 Nov;11 Suppl 3:27–32 (10 ref.)

ACOG criteria set. Gonadotropin–releasing hormone agonists for preoperative treatment of leiomyomata. American College of Obstetricians and Gynecologists Committee on Quality Assessment. **Int J Gynaecol Obstet** 1996 Feb;52(2):213–4

Inhibin B secretion in males with gonadotropin–releasing hormone (GnRH) deficiency before and during long–term GnRH replacement: relationship to spontaneous puberty, testicular volume, and prior treatment—a clinical research center study. Nachtigall LB, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3520–5

Inhibin B in males with gonadotropin–releasing hormone (GnRH) deficiency: changes in serum concentration after shortterm physiologic GnRH replacement—a clinical research center study. Seminara SB, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3692–6

Effects of ovary suppression by a long–acting GnRH–agonist on circulating GH, insulin–like growth factor I and insulin levels in women with polycystic ovary syndrome. Tropeano G, et al. **J Endocrinol Invest** 1997 Apr; 20(4):220–4

Kallmann syndrome in females: gonadotropin versus GnRH to induce fertility. Imai A, et al. **J Med** 1996;27(3–4):237–40

The pharmacological effect of the gonadotrophin–releasing hormone on experimental cryptorchidism in rats. Lein M, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):185–91

Primary gonadotropin releasing hormone and adjunctive human chorionic gonadotropin treatment in cryptorchidism: a clinical trial. Nane I, et al. **Urology** 1997 Jan;49(1):108–11

GnRH therapy for subfertile stallions. Brinsko SP. **Vet Clin North Am Equine Pract** 1996 Apr;12(1):149–60 (50 ref.)

[Medical therapy of cryptorchidism] Zucchini S, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5 Suppl):35–6 (18 ref.) (Eng. Abstr.) **(Ita)**

[Neoadjuvant combined hormonal therapy and radiotherapy with external beam irradiation in prostatic carcinoma] Cellini N, et al. **Radiol Med (Torino)** 1997 Apr;93(4):446–50 (Eng. Abstr.) **(Ita)**

[Prognostic factors in patients with prostatic cancer treated with neoadjuvant hormonal therapy and radical prostatectomy] Villavicencio Mavrich H, et al. **Arch Esp Urol** 1996 Oct;49(8):797–806 (Eng. Abstr.) **(Spa)**

GONADORELIN RECEPTORS see **RECEPTORS, LHRH**

GONADOTROPIN RECEPTORS see **RECEPTORS, GONADOTROPIN**

GONADOTROPIN–RELEASING HORMONE see **GONADORELIN**

GONADOTROPIN RELEASING–HORMONE RECEPTORS see **RECEPTORS, LHRH**

GONADOTROPIN–RESISTANT OVARY SYNDROME see **OVARIAN FAILURE, PREMATURE**

GONADOTROPINS

see related
RECEPTORS, GONADOTROPIN

Gonadotropins and sex selection? [letter; comment] James WH. **Fertil Steril** 1997 Aug;68(2):380–1. Comment on: Fertil Steril 1996 Sep;66(3):343–50.

Gonadotropins and their receptors: structure, function and molecular forms. Conference proceedings. Paris, France, May 9–10, 1996. **Mol Cell Endocrinol** 1996 Dec 20; 125(1–2):1–182

ADVERSE EFFECTS

A unique case of massive ascites before ovulation associated with gonadotropin therapy. Akman MA, et al. **Fertil Steril** 1996 Dec;66(6):1026–7

ANALYSIS

Role of different GnRH agonist regimens in pituitary suppression and the outcome of controlled ovarian hyperstimulation. Filicori M, et al. **Hum Reprod** 1996 Nov; 11 Suppl 3:123–32 (52 ref.)

ANTAGONISTS & INHIBITORS

Suppression of gonadotropins inhibits gonadal tumorigenesis in mice transgenic for the mouse inhibin alpha–subunit promoter/simian virus 40 T–antigen fusion gene. Kananen K, et al. **Endocrinology** 1997 Aug;138(8):3521–31

Hypoprolactinemia does not prevent restoration of normal spermatogenesis in gonadotropin–suppressed, testosterone–replaced rats. Awoniji CA, et al. **J Androl** 1996 Jan–Feb;17(1):35–40

Short–term gonadotropin suppression with oral contraceptives benefits poor responders prior to controlled ovarian hyperstimulation. Lindheim SR, et al. **J Assist Reprod Genet** 1996 Oct;13(9):745–7

The antigonadotropic activity of progestins (19–nortestosterone and 19–norprogesterone derivatives) is not mediated through the androgen receptor. Couzinet B, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4218–23

BIOSYNTHESIS

Biosynthesis of gonadotropins in vivo. Kochman K, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):753–6 (25 ref.)

Effect of testosterone on maturational gonadotropin subunit messenger ribonucleic acid levels in the goldfish pituitary. Huggard D, et al. **Biol Reprod** 1996 Jun;54(6):1184–91

In vitro immunoneutralization of a cleaved prolactin variant: evidence for a local paracrine action of cleaved prolactin in the development of gonadotrophs and thyrotrophs in rat pituitary. Andries M, et al. **J Neuroendocrinol** 1996 Feb; 8(2):123–7

Influence of hypoxia on vascular endothelial growth factor and chorionic gonadotrophin production in the trophoblast–derived cell lines: JEG, JAr and BeWo. Taylor CM, et al. **Placenta** 1997 Jul–Aug;18(5–6):451–8

BLOOD

Re: "Total serum testosterone and gonadotropins in workers exposed to dioxin" [letter; comment] James WH. **Am J Epidemiol** 1997 Mar 15;145(6):569. Comment on: Am J Epidemiol 1994 Feb 1;139(3):272–81.

Effect of continual light deprivation and alpha–2u–globulin replacement therapy on serum concentration of gonadotropins and testicular activity in rats. Ghosh PK, et al. **Andrologia** 1996 Nov–Dec;28(6):309–13

When is it safe to switch from oral contraceptives to hormonal replacement therapy? Castracane VD, et al. **Contraception** 1995 Dec;52(6):371–6

Serum dioxin, testosterone, and gonadotropins in veterans of Operation Ranch Hand [see comments] Henriksen GL, et al. **Epidemiology** 1996 Jul;7(4):352–7. Comment in: Epidemiology 1996 Jul;7(4):454–5.

Serum dioxin, testosterone, and gonadotropins in veterans of Operation Ranch Hand [letter; comment] Henriksen GL, et al. **Epidemiology** 1996 Jul;7(4):454–5. Comment on: Epidemiology 1996 Jul;7(4):352–7.

A novel approach to assess changes in endocrine secretion: analysis of GnRH antagonist (Nal–Glu) suppression of gonadotropin release in ovariectomized ewes. Normolle DP, et al. **Eur J Endocrinol** 1997 May;136(5):519–30

Pulsatile gonadotrophin secretion in hypothyroid women of reproductive age. Tomasi PA, et al. **Eur J Endocrinol** 1997 Apr;136(4):406–9

Prolactin, gonadotropin, and hair shedding responses to daily sulpiride administration in geldings in winter. Thompson DL Jr, et al. **J Anim Sci** 1997 Apr;75(4):1087–91

Normogonadotropic primary amenorrhea in a growth hormone–deficient woman with ectopic posterior pituitary: gonadotropin pulsatility and follicle–stimulating hormone bioactivity. Crottaz B, et al. **J Endocrinol Invest** 1996 Jan; 19(1):48–53

Food supplementation during lactation shortens anestrus and elevates gonadotropins in rats. Gournis E, et al. **J Nutr** 1997 May;127(5):785–90

Suppression and flare regimens of gonadotropin–releasing hormone agonist. Use in women with different basal gonadotropin values in an in vitro fertilization program. Toth TL, et al. **J Reprod Med** 1996 May;41(5):321–6

Effects of blood pH and blood lactate on growth hormone, prolactin, and gonadotropin release after acute exercise in male volunteers. Elias AN, et al. **Proc Soc Exp Biol Med** 1997 Feb;214(2):156–60

[Hypophyseal and sex hormones in Chernobyl' emergency team members with neurocirculatory dystonia] Kovalenko AN. **Klin Med (Mosk)** 1996;74(4):68–9 **(Rus)**

CHEMICAL SYNTHESIS

Chemical synthesis of a 7 kDa insect gonadotropic neurohormone. Girardie J, et al. **J Pept Sci** 1995 Sep–Oct; 1(5):311–8

GONADOTROPINS

CHEMISTRY

Evaluation of subunit truncation and the nature of the spacer for single chain human gonadotropins. Heikoop JC, et al. **Eur J Biochem** 1997 May 1;245(3):656–62

Structural features of mammalian gonadotropins. Bousfield GR, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):3–19 (44 ref.)

Structure–based design and protein engineering of intersubunit disulfide bonds in gonadotropins. Heikoop JC, et al. **Nat Biotechnol** 1997 Jul;15(7):658–62

[Application prospects of structure–function studies of gonadotropins] Combarnous Y. **Contracept Fertil Sex** 1997 Mar;25(3):230–3 (17 ref.) (Eng. Abstr.) **(Fre)**

DEFICIENCY

Gonadotropin therapy of men with hypogonadotropic hypogonadism. Bhasin S, et al. **Curr Ther Endocrinol Metab** 1997;6:349–52 (9 ref.)

Hypogonadotropic hypogonadism: gonadotropin–releasing hormone therapy. Whitcomb RW, et al. **Curr Ther Endocrinol Metab** 1997;6:353–5 (9 ref.)

The effects of recombinant FSH on testosterone–induced spermatogenesis in gonadotrophin–deficient (hpg) mice. Singh J, et al. **J Androl** 1996 Jul–Aug;17(4):382–93

Treatment of isolated hypogonadotropic hypogonadism effect on bone mineral density and bone turnover. Guo CY, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):658–65

'Hamster–like' cycles in testicular size in the absence of gonadotrophin secretion in HPD rams exposed to long–term changes in photoperiod and treatment with melatonin. Lincoln GA, et al. **J Neuroendocrinol** 1996 Nov; 8(11):855–66

Nocturnal secretory patterns of melatonin, luteinizing hormone, prolactin and cortisol in male patients with gonadotropin–releasing hormone deficiency. Luboshitzky R, et al. **J Pineal Res** 1996 Aug;21(1):49–54

Treatment of prepubertal gonadotrophin–deficient boys with recombinant human follicle–stimulating hormone [letter] Raivio T, et al. **Lancet** 1997 Jul 26;350(9073):263–4

GENETICS

Expression of biologically active fusion genes encoding the common alpha subunit and either the CG beta or FSH beta subunits: role of a linker sequence. Sugahara T, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):71–7

Role of estrogen receptor–alpha in the anterior pituitary gland. Scully KM, et al. **Mol Endocrinol** 1997 Jun; 11(6):674–81

Structure–based design and protein engineering of intersubunit disulfide bonds in gonadotropins. Heikoop JC, et al. **Nat Biotechnol** 1997 Jul;15(7):658–62

ISOLATION & PURIFICATION

Naturally occurring analogs of Lymantria testis ecdysiotropin, a gonadotropin isolated from brains of Lymantria dispar pupae. Loeb MJ, et al. **Arch Insect Biochem Physiol** 1997;36(1):37–50

METABOLISM

Induction of apoptosis in Kaposi's sarcoma spindle cell cultures by the subunits of human chorionic gonadotropin. Lang ME, et al. **AIDS** 1997 Sep;11(11):1333–40

Lesions of the ventral striatum mimic the effect of olfactory bulbectomy to prevent short photoperiod–induced testicular regression in golden hamsters. Gomez DM, et al. **Brain Res** 1996 Jun 3;723(1–2):148–53

Effects of environmental mercury on gonadal function in Lake Champlain northern pike (Esox lucius). Friedmann AS, et al. **Bull Environ Contam Toxicol** 1996 Mar; 56(3):486–92

Interleukin (IL)–1beta increases glucose uptake and induces glycolysis in aerobically cultured rat ovarian cells: evidence that IL–1beta may mediate the gonadotropin–induced midcycle metabolic shift. Ben–Shlomo I, et al. **Endocrinology** 1997 Jul;138(7):2680–8

Prolactin administration to seasonally anestrous mares: reproductive, metabolic, and hair–shedding responses. Thompson DL Jr, et al. **J Anim Sci** 1997 Apr;75(4):1092–9

Basolateral localization and transcytosis of gonadotropin and thyrotropin receptors expressed in Madin–Darby canine kidney cells. Beau I, et al. **J Biol Chem** 1997 Feb 21; 272(8):5241–8

Naloxone administration does not relieve the inhibition of gonadotropin release in food–restricted, lactating rats. McGuire MK, et al. **J Nutr** 1996 Sep;126(9):2113–9

Differential effects of gonadotropin–releasing hormone, dopamine and somatostatin and their second messengers on the mRNA levels of gonadotropin II beta subunit and growth hormone in the teleost fish, tilapia. Melamed P, et al. **Neuroendocrinology** 1996 Oct;64(4):320–8

Aroclor 1254–induced alterations in hypothalamic monoamine metabolism in the Atlantic croaker (Micropogonias undulatas): correlation with pituitary gonadotropin release. Khan IA, et al. **Neurotoxicology** 1997; 18(2):553–60

PHARMACOKINETICS

Pharmacokinetics and ovarian–stimulatory effects of equine and human chorionic gonadotropins administered singly and in combination in the domestic cat. Swanson WF, et al. **Biol Reprod** 1997 Aug;57(2):295–302

PHARMACOLOGY

Hormonal regulation of prostaglandin F2 alpha receptor gene expression in mouse ovary. Sugatani J, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):E686–93

Regulation by gonadotropins of the messenger ribonucleic acid for P450 side–chain cleavage, P450(17) alpha–hydroxylase/C17,20–lyase, and 3 beta–hydroxysteroid dehydrogenase in cultured pig Leydig cells. Clark AM, et al. **Biol Reprod** 1996 Aug;55(2):347–54

Assisted conception following poor ovarian response to gonadotrophin stimulation. Keay SD, et al. **Br J Obstet Gynaecol** 1997 May;104(5):521–7 (78 ref.)

Effect of follicle stimulating hormone or human chorionic gonadotrophin treatment on the production of gonadotrophin surge attenuating factor (GnSAF) during the luteal phase of the human menstrual cycle [see comments] Messinis IE, et al. **Clin Endocrinol (Oxf)** 1996 Feb;44(2):169–75. Comment in: Clin Endocrinol (Oxf) 1996 Feb;44(2):177–80.

Ovarian stimulation for assisted reproduction. Meldrum DR. **Curr Opin Obstet Gynecol** 1996 Jun;8(3):166–70 (33 ref.)

Regulation of ovarian follicle differentiation in gonadotrophin–stimulated rats. Andreu CV, et al. **Endocrine** 1997 Apr;6(2):145–51

Prostaglandin production and ovulation during exposure of amphibian ovarian follicles to gonadotropin or phorbol ester in vitro. Chang KJ, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):257–66

Suppression of apoptosis by gonadotropin, 17beta–estradiol, and epidermal growth factor in rainbow trout preovulatory ovarian follicles. Janz DM, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):186–93

Pretreatment transvaginal ultrasound examination predicts ovarian responsiveness to gonadotrophins in in–vitro fertilization. Tomas C, et al. **Hum Reprod** 1997 Feb; 12(2):220–3

Mechanism of stress–induced attenuation of the testicular response to gonadotropin: possible involvement of testicular opioids, a pertussis toxin–sensitive G–protein, and phosphodiesterase. Akibami MA, et al. **J Androl** 1996 Jan–Feb;17(1):10–6

A controlled ovarian hyperstimulation regimen involving intermittent gonadotropin administration with a "short" protocol of gonadotropin releasing hormone agonist for in vitro fertilization. Suganuma N, et al. **J Assist Reprod Genet** 1996 Jan;13(1):43–8

Differential effects of gonadotropin and orthovanadate on oocyte maturation, ovulation, and prostaglandin synthesis by Rana ovarian follicles in vitro. Chang KJ, et al. **J Exp Zool** 1997 Feb 1;277(2):155–65

Effects of acute changes in oestrogen on muscle function of the first dorsal interosseus muscle in humans. Greeves JP, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):265–70

Effect of gonadotrophin and sex steroid on the scotoresponses of day old chicks of Japanese quail, Coturnix coturnix japonica. Phillips D, et al. **Life Sci** 1997;61(15):1487–95

Partial sequencing of the rat steroidogenic acute regulatory protein message from immortalized granulosa cells: regulation by gonadotropins and isoproterenol. Selvaraj N, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):171–7

Hepatic lipase gene expression is transiently induced by gonadotropic hormones in rat ovaries. Vieira–van Bruggen D, et al. **Mol Cell Endocrinol** 1997 Jan 3;126(1):35–40

Estrogen receptor–beta mRNA expression in rat ovary: down–regulation by gonadotropins. Byers M, et al. **Mol Endocrinol** 1997 Feb;11(2):172–82

Failure to demonstrate effects in the progeny of rats treated with gonadotropin prior to mating. Storeng R, et al. **Pharmacol Toxicol** 1996 Oct;79(4):211–3

Seasonal effects on ovarian responsiveness to exogenous gonadotrophins and successful artificial insemination in the snow leopard (Uncia uncia). Roth TL, et al. **Reprod Fertil Dev** 1997;9(3):285–95

Gonadotropin suppression of apoptosis in follicle somatic cells. Galeati G, et al. **Zygote** 1996 Nov;4(4):299–303

PHYSIOLOGY

Polymorphism of gonadotropin action; molecular mechanisms and clinical implications. Huhtaniemi IT. **Acta Neurobiol Exp (Warsz)** 1996;56(3):743–51 (37 ref.)

Are gonadotrophic hormonal factors perceived to be important by women with panic attacks? Birchall HM. **Anxiety** 1994;1(2):102–3

Juvenile hormone in adult eusocial Hymenoptera: gonadotropin and behavioral pacemaker. Robinson GE, et al. **Arch Insect Biochem Physiol** 1997;35(4):559–83 (116 ref.)

Progesterone receptor messenger ribonucleic acid and protein in luteinized granulosa cells of rhesus monkeys are regulated in vitro by gonadotropins and steroids. Duffy DM, et al. **Biol Reprod** 1996 Apr;54(4):888–95

Manipulation of human ovarian function: physiological concepts and clinical consequences. Fauser BC, et al. **Endocr Rev** 1997 Feb;18(1):71–106 (412 ref.)

Gonadotropins are essential modifier factors for gonadal tumor development in inhibin–deficient mice. Kumar TR, et al. **Endocrinology** 1996 Oct;137(10):4210–6

Does functional alteration of the gonadotropic axis occur in endurance trained athletes during and after exercise? A preliminary study. Duclos M, et al. **Eur J Appl Physiol** 1996;73(5):427–33

Do gonadotropins influence serum lipoprotein(a) concentrations? Observations on children, adolescents and adults. Schumacher M, et al. **Eur J Clin Chem Clin Biochem** 1996 Nov;34(11):909–14

Control of gonadotropin feedback: the possible role of estrogen–induced hypothalamic synaptic plasticity. Horvath TL, et al. **Gynecol Endocrinol** 1997 Apr; 11(2):139–43 (12 ref.)

Effect of plumbagin on gonadotrophic cycle of the housefly, Musca domestica L. Saxena BP, et al. **Indian J Exp Biol** 1996 Aug;34(8):739–44

Gonadotropins and ovarian gonadotropin receptors during the perimenopausal transition period. Vihko KK. **Maturitas** 1996 May;23 Suppl:S19–22 (26 ref.)

Functional heterogeneity of pituitary gonadotropes in response to a variety of neuromodulators. Billiard J. **Mol Cell Endocrinol** 1996 Oct 30;123(2):163–70

Lack of gonadotropin–positive feedback in the male rat is associated with lack of estrogen–induced synaptic plasticity in the arcuate nucleus. Horvath TL, et al. **Neuroendocrinology** 1997 Feb;65(2):136–40

Neuroendocrine mechanisms mediating awakening of the human gonadotropic axis in puberty. Veldhuis JD. **Pediatr Nephrol** 1996 Jun;10(3):304–17 (131 ref.)

Follicular dominance and oocyte maturation. Campbell BK, et al. **Zygote** 1996 Nov;4(4):327–34 (60 ref.)

Endocrine and paracrine regulation of cumulus expansion. Salustri A, et al. **Zygote** 1996 Nov;4(4):313–5 (13 ref.)

[Application prospects of structure–function studies of gonadotropins] Combarnous Y. **Contracept Fertil Sex** 1997 Mar;25(3):230–3 (17 ref.) (Eng. Abstr.) **(Fre)**

SECRETION

GnRH signaling in goldfish pituitary cells. Chang JP, et al. **Biol Signals** 1996 Mar–Apr;5(2):70–80 (33 ref.)

Differences in the acute actions of sGnRH and cGnRH–II on gonadotropin release in goldfish pituitary cells. Chang JP, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):339–54

Physiological relationships between inhibin B, follicle stimulating hormone secretion and spermatogenesis in normal men and response to gonadotrophin suppression by exogenous testosterone. Anderson RA, et al. **Hum Reprod** 1997 Apr;12(4):746–51

The transcription activator steroidogenic factor–1 is preferentially expressed in the human pituitary gonadotroph. Asa SL, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2165–70

Effects of chemotherapy–induced testicular damage on inhibin, gonadotropin, and testosterone secretion: a prospective longitudinal study. Wallace EM, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3111–5

Evidence for an interaction between alpha–MSH and opioids in the regulation of gonadotropin secretion in man. Limone P, et al. **J Endocrinol Invest** 1997 Apr;20(4):207–10

Effects of pulsatile pituitary adenylate cyclase activating polypeptide (PACAP) on gonadotropin secretion and subunit mRNA levels in perifused rat pituitary cells. Tsujii T, et al. **Life Sci** 1995 Feb 17;56(13):1103–11

Nongenomic actions of steroids on gonadotropin release. Wiebe JP. **Recent Prog Horm Res** 1997;52:71–99; discussion 99–101 (133 ref.)

THERAPEUTIC USE

Gonadotropin therapy of men with hypogonadotropic hypogonadism. Bhasin S, et al. **Curr Ther Endocrinol Metab** 1997;6:349–52 (9 ref.)

Intrauterine insemination with frozen sperm increases pregnancy rates in donor insemination cycles under gonadotropin stimulation. Matorras R, et al. **Fertil Steril** 1996 Mar;65(3):620–5

Influence of serum follicle stimulating hormone to luteinizing hormone ratio during buserelin acetate–induced pituitary desensitization on ovarian response to exogenous gonadotrophins in an in–vitro fertilization and embryo transfer programme. Yamashita T, et al. **Hum Reprod** 1996 Aug;11(8):1615–9

[Fertilization in vitro and embryo transfer by combined long–acting gonadotropin releasing hormone agonist and gonadotropin for superovulation in patients with refractory polycystic ovary syndrome] Li R, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 May;31(5):283–6 (Eng. Abstr.) **(Chi)**

[Turner's syndrome: growth, endocrinological study and other aspects] Vázquez Alvarez J, et al. **An Esp Pediatr** 1997 Apr;46(4):357–61 (Eng. Abstr.) **(Spa)**

URINE

Assessment of urinary gonadotropin in solid carcinomas other than gynecological tumors. von Kleist S, et al. **J Clin Lab Anal** 1996;10(4):184–92

GONADOTROPINS, CHORIONIC

see related
RECEPTORS, GONADOTROPIN

Mussel adhesive enhances the immobilization of human chorionic gonadotrophin to a solid support. Burzio VA, et al. **Anal Biochem** 1996 Oct 15;241(2):190–4

ADMINISTRATION & DOSAGE

Human chorionic gonadotropin directly and indirectly alters uterine arteriolar diameters in cycling rats. Hill JB, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):150–7

Superovulation induction in the house musk shrew (Suncus murinus). Matsuzaki T, et al. **Exp Anim** 1997 Jul;46(3):183–9

Clomiphene citrate ovulation induction in combination with a timed intrauterine insemination: the value of urinary luteinizing hormone versus human chorionic gonadotropin timing. Deaton JL, et al. **Fertil Steril** 1997 Jul;68(1):43–7

Altering the timing of human chorionic gonadotropin injection according to serum progesterone (P) concentrations improves embryo quality in cycles with subtle P rise. Harada T, et al. **Fertil Steril** 1996 Mar; 65(3):594–7

Does human chorionic gonadotropin have human thyrotropic activity in vivo? Foulk RA, et al. **Gynecol Endocrinol** 1997 Jun;11(3):195–201

The utility of a midcycle follicle-stimulating hormone boost in addition to human chorionic gonadotropin for timing of follicle aspiration in unstimulated in vitro fertilization cycles. Lindheim SR, et al. **Gynecol Obstet Invest** 1997; 43(2):76–8

Time interval from human chorionic gonadotrophin (HCG) injection to follicular rupture. Andersen AG, et al. **Hum Reprod** 1995 Dec;10(12):3202–5

The benefits of mid-luteal addition of human chorionic gonadotrophin in in-vitro fertilization using a down-regulation protocol and luteal support with progesterone. Herman A, et al. **Hum Reprod** 1996 Jul; 11(7):1552–7

'Curing' empty follicle syndrome [letter] Khalaf Y, et al. **Hum Reprod** 1997 Jul;12(7):1601

Ultrasound derived indices of follicular blood flow before HCG administration and the prediction of oocyte recovery and preimplantation embryo quality. Nargund G, et al. **Hum Reprod** 1996 Nov;11(11):2512–7

Total ovarian volume before human chorionic gonadotrophin administration for ovulation induction may predict the hyperstimulation syndrome. Oyesanya OA, et al. **Hum Reprod** 1995 Dec;10(12):3211–12

An artificially induced follicle stimulating hormone surge at the time of human chorionic gonadotrophin administration in controlled ovarian stimulation cycles has no effect on cumulus expansion, fertilization rate, embryo quality and implantation rate. Vermeiden JP, et al. **Hum Reprod** 1997 Jul;12(7):1399–402

Induction of spermatogenesis in isolated hypogonadotrophic hypogonadism with gonadotrophins and early intervention with intracytoplasmic sperm injection. Yong EL, et al. **Hum Reprod** 1997 Jun;12(6):1230–2

Safety of intrauterine administration of purified neem seed oil (Praneem Vilci) in women & effect of its co-administration with the heterospecies dimer birth control vaccine on antibody response to human chorionic gonadotropin. Talwar GP, et al. **Indian J Med Res** 1995 Aug;102:66–70

The significance of elevated progesterone at the time of administration of human chorionic gonadotropin may be related to luteal support. Miller KF, et al. **J Assist Reprod Genet** 1996 Oct;13(9):698–701

17-hydroxyprogesterone levels are not helpful in the prediction of HCG timing in in vitro fertilization cycles. Smith KE, et al. **J Assist Reprod Genet** 1996 Sep; 13(8):681–2

Cleavage of unfertilized eggs after repeated administration of human chorionic gonadotrophin to hamsters. Kanayama K, et al. **J Int Med Res** 1997 Jul-Aug;25(4):202–5

Pregnancy after treatment with three recombinant gonadotropins. Agrawal R, et al. **Lancet** 1997 Jan 4; 349(9044):29–30

Intralesional human chorionic gonadotropin for Kaposi's sarcoma [letter; comment] Harris PJ. **N Engl J Med** 1997 Apr 17;336(16):1187; discussion 1188–9. Comment on: N Engl J Med 1996 Oct 24;335(17):1261–9. Comment on: N Engl J Med 1996 Oct 24;335(17):1309–10.

ADVERSE EFFECTS

Aneuploidy of human granulosa cells in follicular fluids from in vitro fertilization patients. Melsheimer P, et al. **Anal Quant Cytol Histol** 1997 Feb;19(1):75–9

'Curing' empty follicle syndrome [letter] Khalaf Y, et al. **Hum Reprod** 1997 Jul;12(7):1601

ANALYSIS

Materno-umbilical ratio of hepatitis B virus (HBV) surface antigen exceeds that of human chorionic gonadotropin in HBV-infected deliveries. Nørskov-Lauritsen N. **Acta Virol** 1996 Nov-Dec;40(5–6):293–5

Molar pregnancy and living normal fetus coexisting until term: prenatal biochemical and sonographic diagnosis. Chen FP. **Hum Reprod** 1997 Apr;12(4):853–6

Expectations and fears of women regarding two methods of prenatal screening. Esen UI, et al. **Int J Gynaecol Obstet** 1997 May;57(2):193–4

Enzyme-linked immunosorbent assays in a chromatographic format. Johns MA, et al. **J Chromatogr A** 1996 Aug 30; 743(1):195–206

Tumor markers in hydrocele fluids of patients with benign and malignant scrotal diseases. Dorfinger K, et al. **J Urol** 1997 Sep;158(3 Pt 1):851–5

Localization of human chorionic gonadoptropin and placental lactogen by immunogold labeling for electron microscopy: technique and limitations. Morrish DW, et al. **Microsc Res Tech** 1997 Jul 1–15;38(1–2):176–87

Analysis of chorionic gonadotrophin secreted by cultured human blastocysts. Lopata A, et al. **Mol Hum Reprod** 1997 Jun;3(6):517–21

Vaginal fluid hCG levels for detecting premature rupture of membranes. Anai T, et al. **Obstet Gynecol** 1997 Feb; 89(2):261–4

Biochemical markers of trisomy 21 in amniotic fluid. Spencer K, et al. **Prenat Diagn** 1997 Jan;17(1):31–7

[The level of embryonic antigens in the blood serum and cerebrospinal fluid of neuro-oncological patients] Rudenko VA, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1996 Jul-Sep;(3):32–5 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

The regulation of progesterone and hCG production from placental cells by interleukin-1beta. Seki H, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):342–8

Osteogenic protein-1 is produced by human fetal trophoblasts in vivo and regulates the synthesis of chorionic gonadotropin and progesterone by trophoblasts in vitro. Martinovic S, et al. **Eur J Clin Chem Clin Biochem** 1996 Feb;34(2):103–9

Biosynthesis of human chorionic gonadotropin: a review. Merz WE. **Eur J Endocrinol** 1996 Sep;135(3):269–84 (229 ref.)

The influence of Vero cell culture on human embryo development and chorionic gonadotrophin production in vitro. Turner K, et al. **Hum Reprod** 1996 Sep;11(9):1966–74

Placental mRNA expression of alpha and beta human chorionic gonadotrophin in early trisomy 18 pregnancies. Brizot ML, et al. **Mol Hum Reprod** 1996 Jun;2(6):463–5

Human chorionic gonadotrophin-beta gene sequences in women with disorders of HCG production. Layman LC, et al. **Mol Hum Reprod** 1997 Apr;3(4):315–20

Activin-A stimulates, while transforming growth factor beta 1 inhibits, chorionic gonadotrophin production and aromatase activity in cultured human placental trophoblasts. Song Y, et al. **Placenta** 1996 Nov;17(8):603–10

BLOOD

Prediction of fetal growth based on maternal serum concentrations of human chorionic gonadotropin, human placental lactogen and estriol. Markestad T, et al. **Acta Obstet Gynecol Scand Suppl** 1997;165:50–5

Early prenatal diagnosis of triploidy. Jauniaux E, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):550–4

Maternal serum screening for Down syndrome in the United States: a 1995 survey. Palomaki GE, et al. **Am J Obstet Gynecol** 1997 May;176(5):1046–51

Maternal serum human chorionic gonadotropin level at fifteen weeks as a predictor for preeclampsia? [letter] Vonk R, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):494–5

Maternal serum human chorionic gonadotropin level at 15 weeks [letter; comment] Wenstrom K, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):258. Comment on: Am J Obstet Gynecol 1996 Jul;175(1):37–40.

Effect of parity correction on Down syndrome detection by the multiple-marker screening test. Wenstrom KD, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1004–7

Elevated midtrimester maternal serum hCG in chromosomally normal pregnancies is associated with preeclampsia and velamentous umbilical cord insertion. Heinonen S, et al. **Am J Perinatol** 1996 Oct;13(7):437–41

ELISA for the measurement of serum and urinary chorionic gonadotropin concentrations in the laboratory macaque. Munro CJ, et al. **Am J Primatol** 1997;41(4):307–22

Diagnosis of ectopic pregnancy [letter; comment] Barnhart K, et al. **Ann Emerg Med** 1997 Feb;29(2):295–6. Comment on: Ann Emerg Med 1996 Jul;28(1):10–7.

Longitudinal observations of human chorionic gonadotropin in serum following surgery for ectopic pregnancy. Rempen A, et al. **Arch Gynecol Obstet** 1996;258(4):181–92

Serum concentrations of human chorionic gonadotrophin and immunoreactive inhibin in early pregnancy and recurrent miscarriage: a longitudinal study. France JT, et al. **Aust N Z J Obstet Gynaecol** 1996 Aug;36(3):325–30

Serum progesterone and human chorionic gonadotrophin measurements in the evaluation of ectopic pregnancy. O'Leary P, et al. **Aust N Z J Obstet Gynaecol** 1996 Aug; 36(3):319–23

Tumour marker concentration at the start of chemotherapy is a stronger predictor of treatment failure than marker half-life: a study in patients with disseminated non-seminomatous testicular cancer. de Wit R, et al. **Br J Cancer** 1997;75(3):432–5

Different hCG assays to measure ectopic hCG secretion in bladder carcinoma patients. Mora J, et al. **Br J Cancer** 1996 Oct;74(7):1081–4

Cutis marmorata telangiectatica congenita associated with an elevated maternal serum human chorionic gonadotrophin level and transitory isolated fetal ascites. Chen CP, et al. **Br J Dermatol** 1997 Feb;136(2):267–71

Serum concentrations of cancer antigen 125, placental alkaline phosphatase, cancer-associated serum antigen and free beta human chorionic gonadotrophin as prognostic markers for epithelial ovarian cancer. Ind T, et al. **Br J Obstet Gynaecol** 1997 Sep;104(9):1024–9

Medians for second-trimester maternal serum alpha-fetoprotein, human chorionic gonadotropin, and unconjugated estriol; differences between races or ethnic groups. Benn PA, et al. **Clin Chem** 1997 Feb;43(2):333–7

Immunoprocedures for detecting human chorionic gonadotropin: clinical aspects and doping control. Stenman UH, et al. **Clin Chem** 1997 Jul;43(7):1293–8 (46 ref.)

The significance of placental pathology in pregnancies with unexplained abnormal concentrations of MSAFP or MShCG. Morssink LP, et al. **Early Hum Dev** 1996 Dec 30;47 Suppl:S63–5

Effect of excessive GnRH-binding substance on circulating maternal hCG in human pregnancy. Siler-Khodr TM, et al. **Early Pregnancy** 1997 Mar;3(1):10–4

Elevated human chorionic gonadotropin concentrations in the testicular vein and in peripheral venous blood in seminoma patients. An analysis of various parameters. Hartmann M, et al. **Eur Urol** 1997;31(4):408–13

The value of tumor markers in testicular seminomas. Results of a prospective multicenter study. Weissbach L, et al. **Eur Urol** 1997;32(1):16–22

Value of triple analyte screening in IVF pregnancies? [letter] Causio F, et al. **Fertil Steril** 1997 Sep;68(3):567–8

Serum human chorionic gonadotropin clearance curves in patients with interstitial pregnancy treated with systemic methotrexate. Hajenius PJ, et al. **Fertil Steril** 1996 Nov; 66(5):723–8

Postoperative day 1 serum human chorionic gonadotropin level as a predictor of persistent ectopic pregnancy after conservative surgical management. Spandorfer SD, et al. **Fertil Steril** 1997 Sep;68(3):430–4

Effect of Hispanic ethnicity on interpretation of maternal serum screening. Byrne JL, et al. **Fetal Diagn Ther** 1997 Mar-Apr;12(2):102–6

Abnormal biochemical serum screening versus 2nd-trimester ultrasound-detected minor anomalies as predictors of aneuploidy in low-risk patients. Drugan A, et al. **Fetal Diagn Ther** 1996 Sep-Oct;11(5):301–5

Multiple marker screening in multifetal gestations: failure to predict adverse pregnancy outcomes. Drugan A, et al. **Fetal Diagn Ther** 1996 Jan-Feb;11(1):16–9

Maternal serum triple analyte screening and adverse pregnancy outcome. Milunsky A, et al. **Fetal Diagn Ther** 1996 Jul-Aug;11(4):249–53

Proliferative cell activity in correlation to human chorionic gonadotrophin release of trophoblast tissue of tubal pregnancy. Kiss H, et al. **Hum Reprod** 1997 Feb;12(2):383–6

Ectopic pregnancy after in-vitro fertilization is characterized by delayed implantation but a normal increase of serum human chorionic gonadotrophin and its subunits. Korhonen J, et al. **Hum Reprod** 1996 Dec;11(12):2750–7

Elevated second trimester human chorionic gonadotropin level associated with adverse pregnancy outcome. Onderoğlu LS, et al. **Int J Gynaecol Obstet** 1997 Mar; 56(3):245–9

Localization by venous sampling of occult chorionic gonadotropin-secreting tumor in a boy with mosaic Klinefelter's syndrome and precocious puberty. Leschek EW, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3825–8

Maternal serum human chorionic gonadotropin as a marker for the delivery of low-birth-weight infants in women with unexplained elevations in maternal serum alpha-fetoprotein. Hurley TJ, et al. **J Matern Fetal Med** 1996 Nov-Dec;5(6):340–4

Altered newborn gender distribution in patients with low mid-trimester maternal serum human chorionic gonadotropin (MShCG). Santolaya-Forgas J, et al. **J Matern Fetal Med** 1997 Mar-Apr;6(2):111–4

Testing cord blood human chorionic gonadotropin as a surrogate marker for early identification of human immunodeficiency virus-1 infection in children. Nachman SA, et al. **J Perinatol** 1996 Nov-Dec;16(6):449–54

More in-vitro bioactive, shorter-lived human chorionic gonadotrophin charge isoforms increase at the end of the first and during the third trimesters of gestation. Diaz-Cueto L, et al. **Mol Hum Reprod** 1996 Sep; 2(9):643–50

An unusual clinical course after mole evacuation: a case report. Okamoto T, et al. **Nagoya J Med Sci** 1997 Mar; 60(1–2):49–52

Serum triple-marker screening in in vitro fertilization and naturally conceived pregnancies. Frishman GN, et al. **Obstet Gynecol** 1997 Jul;90(1):98–101

Screening for ectopic pregnancy in symptom-free women at increased risk. Mol BW, et al. **Obstet Gynecol** 1997 May; 89(5 Pt 1):704–7

The association between hypertensive disorders of pregnancy and abnormal second-trimester maternal serum levels of hCG and alpha-fetoprotein. Morssink LP, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):666–70

Race-ethnicity-specific variation in multiple-marker biochemical screening: alpha-fetoprotein, hCG, and estriol. O'Brien JE, et al. **Obstet Gynecol** 1997 Mar;89(3):355–8

The association between hypertensive disorders of pregnancy and abnormal second-trimester maternal serum levels of hCG and alpha-fetoprotein [letter] Roque H. **Obstet Gynecol** 1997 Sep;90(3):480–1

Free beta-hCG subunit versus intact hCG in Down syndrome screening. Wenstrom KD, et al. **Obstet Gynecol** 1997 Sep;90(3):370–4

Ethnic origin and maternal serum markers of Down syndrome in Israel [letter] Barkai G, et al.

Prenat Diagn 1996 Sep;16(9):870–2
Maternal serum marker levels in two pregnancies affected with Smith–Lemli–Opitz syndrome [letter] Canick JA, et al. **Prenat Diagn** 1997 Feb;17(2):187–9
Maternal serum screening and trisomy 16 confined to the placenta. Groli C, et al. **Prenat Diagn** 1996 Aug;16(8):685–9
Second–trimester maternal serum alpha–fetoprotein, human chorionic gonadotropin, and unconjugated oestriol after early transvaginal multifetal pregnancy reduction [see comments] Groutz A, et al. **Prenat Diagn** 1996 Aug; 16(8):723–7. Comment in: Prenat Diagn 1997 May;17(5):488–90.
Concordant anencephaly in monoamniotic twins and an analysis of maternal serum markers. Hansen LM, et al. **Prenat Diagn** 1997 May;17(5):471–3
Maternal serum testing for alpha–fetoprotein and human chorionic gonadotropin in high–risk pregnancies. Jauniaux E, et al. **Prenat Diagn** 1996 Dec;16(12):1129–35
The stability of hCG and free beta–subunit in serum samples. Kardana A, et al. **Prenat Diagn** 1997 Feb;17(2):141–7
The HELLP syndrome: its association with unexplained elevation of MSAFP and MShCG in the second trimester. Morssink LP, et al. **Prenat Diagn** 1997 Jul;17(7):601–6
Placental mosaicism is associated with unexplained second–trimester elevation of MShCG levels, but not with elevation of MSAFP levels. Morssink LP, et al. **Prenat Diagn** 1996 Sep;16(9):845–51
Maternal serum screening for fetal Down syndrome in IVF pregnancies. Ribbert LS, et al. **Prenat Diagn** 1996 Jan; 16(1):35–8
Sonographic and maternal serum screening abnormalities in fetuses affected by spinal muscular atrophy. Rijhsinghani A, et al. **Prenat Diagn** 1997 Feb;17(2):166–9
The detection of non–immune hydrops through second–trimester maternal serum screening. Saller DN Jr, et al. **Prenat Diagn** 1996 May;16(5):431–5
Re: Second–trimester maternal serum alpha–fetoprotein, human chorionic gonadotropin, and unconjugated oestriol after early transvaginal multifetal pregnancy reduction [letter; comment] Shulman LP, et al. **Prenat Diagn** 1997 May;17(5):488–90. Comment on: Prenat Diagn 1996 Aug;16(8):723–7.
Maternal serum markers for Down's syndrome pregnancies. Chew S, et al. **Singapore Med J** 1995 Aug;36(4):417–23 (85 ref.)
[Maternal serum hCG at 15 weeks. Its value for detecting risk of pre–eclampsia or fetal hypotrophy (letter)] Savey L, et al. **Presse Med** 1996 Dec 21;25(40):2049 **(Fre)**
[The triple test scenario for Styria. With data of the Styria Abnormalities Register] Häusler MC, et al. **Gynakol Geburtshilfliche Rundsch** 1996;36(3):169–77 (Eng. Abstr.) **(Ger)**
[Comparison between age–dependent (Wald alpha program) and age–independent (Ulm index) analysis program for prenatal detection of Down's syndrome with serum markers] Zwahr C, et al. **Z Geburtshilfe Neonatol** 1996 Sep–Oct;200(5):181–5 (Eng. Abstr.) **(Ger)**
[Risks of expectant management of extrauterine pregnancies with low HCG titers and absent clinical symptoms] Küpker W, et al. **Zentralbl Gynakol** 1996;118(11):622–4 (Eng. Abstr.) **(Ger)**
[Clinical use of human chorionic gonadotropin in the treatment of trophoblastic neoplasia] Cohen AD, et al. **Harefuah** 1996 Nov 1;131(9):348–52 (43 ref.) **(Heb)**
[Dependence of the concentration of maternal serum markers on the haptoglobin gene] Chivilev IV, et al. **Genetika** 1997 Mar;33(3):399–404 (Eng. Abstr.) **(Rus)**
[Predictive value of endometrial pattern and thickness in the result of in vitro fertilization and embryo transfer] Vera J A, et al. **Rev Chil Obstet Ginecol** 1995;60(3):195–8 (Eng. Abstr.) **(Spa)**
[Watch out for the false low levels of hCG!] Flam F, et al. **Lakartidningen** 1997 Apr 23;94(17):1614–5 **(Swe)**

CHEMISTRY

Structural analysis of the carboxyl terminal peptide from human chorionic gonadotropin beta–subunit by two–dimensional nuclear magnetic resonance spectroscopy. Rock EP, et al. **Am J Reprod Immunol** 1996 Mar; 35(3):156–62
Mutants of human choriogonadotropin lacking N–glycosyl chains in the alpha–subunit. 1. Mechanism for the differential action of the N–linked carbohydrates. Purohit S, et al. **Biochemistry** 1997 Oct 7;36(40):12355–63
Disulfide bonds 7–31 and 59–87 of the alpha–subunit play a different role in assembly of human chorionic gonadotropin and lutropin. Furuhashi M, et al. **Endocrinology** 1996 Oct;137(10):4196–200
Structural characterisation of human recombinant glycohormones follitropin, lutropin and choriogonadotropin expressed in Chinese hamster ovary cells. Amoresano A, et al. **Eur J Biochem** 1996 Dec 15; 242(3):608–18
NMR studies of the free alpha subunit of human chorionic gonadotropin. Structural influences of N–glycosylation and the beta subunit on the conformation of the alpha subunit. De Beer T, et al. **Eur J Biochem** 1996 Oct 1;241(1):229–42
Protein engineering of a novel constitutively active hormone–receptor complex. Wu C, et al. **J Biol Chem** 1996 Dec 6;271(49):31638–42
A linear 23–residue peptide reveals a propensity to form an unusual native–like conformation. Sherman SA, et al. **J Biomol Struct Dyn** 1995 Dec;13(3):441–6
Mass spectrometric characterization of the beta–subunit of human chorionic gonadotropin. Liu C, et al. **J Mass Spectrom** 1997 Jan;32(1):33–42
Pathophysiological importance of various molecular forms of human choriogonadotropin. Alfthan H, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):107–20 (172 ref.)
Immunochemical mapping of gonadotropins. Berger P, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):33–43 (53 ref.)
Three–dimensional structures of gonadotropins. Lustbader JW, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):21–31 (57 ref.)
Effect of modification of the beta–hairpin and long loops simultaneously in both alpha– and beta–subunits on the function of human choriogonadotropin: part II. Shao K, et al. **Mol Cell Endocrinol** 1997 Mar 28;127(2):179–87
Effect of modification of all loop regions in the alpha– and beta–subunits of human choriogonadotropin on its signal transduction activity. Shao K, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):173–82
More in–vitro bioactive, shorter–lived human chorionic gonadotrophin charge isoforms increase at the end of the first and during the third trimesters of gestation. Díaz–Cueto L, et al. **Mol Hum Reprod** 1996 Sep; 2(9):643–50
Preparation of recombinant carbohydrate deficient active analogs of human chorionic gonadotropin from insect cells. Shao K, et al. **Prep Biochem Biotechnol** 1996 Aug–Nov; 26(3–4):271–80

CONTRAINDICATIONS

Withholding gonadotropin administration is an effective alternative for the prevention of ovarian hyperstimulation syndrome. Benadiva CA, et al. **Fertil Steril** 1997 Apr; 67(4):724–7

DIAGNOSTIC USE

hCG stimulation test for diagnosis of androgen deficiency. Tzvetkova P, et al. **Arch Androl** 1997 Sep–Oct;39(2):163–71
Evidence for a primary abnormality of thecal cell steroidogenesis in the polycystic ovary syndrome. Gilling–Smith C, et al. **Clin Endocrinol (Oxf)** 1997 Jul; 47(1):93–9
Molecular genetic analysis and human chorionic gonadotropin stimulation tests in the diagnosis of prepubertal patients with partial 5 alpha–reductase deficiency. Hiort O, et al. **Eur J Pediatr** 1996 Jun; 155(6):445–51
A pilot study of the human chorionic gonadotrophin test for ovarian hyperandrogenism. Levrant SG, et al. **Hum Reprod** 1997 Jul;12(7):1416–20
Biochemical selection of prepubertal patients with androgen insensitivity syndrome by sex hormone–binding globulin response to the human chorionic gonadotropin test. Bertelloni S, et al. **Pediatr Res** 1997 Feb;41(2):266–71
[Function tests for male gonads] Isurugi K, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:380–4 (6 ref.) **(Jpn)**

GENETICS

Mutants of human choriogonadotropin lacking N–glycosyl chains in the alpha–subunit. 1. Mechanism for the differential action of the N–linked carbohydrates. Purohit S, et al. **Biochemistry** 1997 Oct 7;36(40):12355–63
The expression of the human chorionic gonadotropin beta subunit gene depends on negative control. Chen YH, et al. **Cell Biochem Funct** 1996 Dec;14(4):297–301
A potential role for cell cycle control proteins in regulation of the cyclic adenosine 5'–monophosphate–responsive glycoprotein hormone alpha subunit gene. Pestell RG, et al. **Cell Growth Differ** 1996 Oct;7(10):1337–44
Site–directed mutagenesis of recombinant equine chorionic gonadotropin/luteinizing hormone: differential role of oligosaccharides in luteinizing hormone– and follicle–stimulating hormone–like activities. Min KS, et al. **Endocr J** 1996 Oct;43(5):585–93
A functional determinant in human luteinizing hormone and chorionic gonadotropin: differential effect of mutations about beta–GLN–54. Hu SB, et al. **Endocrinology** 1997 Apr; 138(4):1627–33
A new series of mycobacterial expression vectors for the development of live recombinant vaccines. Baulard A, et al. **Gene** 1996 Oct 17;176(1–2):149–54
Recombinant gonadotrophins: an introduction. Eshkol A. **Hum Reprod** 1996 Sep;11 Suppl 1:89–94; discussion 117–9
Clinical assessment of human gonadotrophins produced by recombinant DNA technology. Loumaye E, et al. **Hum Reprod** 1996 Sep;11 Suppl 1:95–107; discussion 117–9 (53 ref.)
Substitution of the seat–belt region of the thyroid–stimulating hormone (TSH) beta–subunit with the corresponding regions of choriogonadotropin or follitropin confers luteotropic but not follitropic activity to chimeric TSH. Grossmann M, et al. **J Biol Chem** 1997 Jun 13; 272(24):15532–40
cis–Acting elements and trans–acting proteins in the transcriptional inhibition of gonadotropin–releasing hormone gene by human chorionic gonadotropin in immortalized hypothalamic GT1–7 neurons. Lei Z, et al. **J Biol Chem** 1997 May 30;272(22):14365–71
Hypoxia downregulates continuous and interleukin–1–induced expression of human chorionic gonadotropin in choriocarcinoma cells. Strohmer H, et al. **Placenta** 1997 Sep;18(7):597–604

IMMUNOLOGY

Immunocontraception becomes a reality: the Talwar HCG vaccine [editorial] Coulam CB. **Am J Reprod Immunol** 1997 Feb;37(2):151–2 (15 ref.)
Progress in the development of human chorionic gonadotropin antifertility vaccines. Stevens VC. **Am J Reprod Immunol** 1996 Mar;35(3):148–55 (19 ref.)
Induction of apoptosis in equine chorionic gonadotropin (eCG)–primed rat ovaries by anti–eCG antibody. Boone DL, et al. **Biol Reprod** 1997 Aug;57(2):420–7
Development of contraceptive vaccines for humans using antigens derived from gametes (spermatozoa and zona pellucida) and hormones (human chorionic gonadotrophin): current status. Naz RK, et al. **Hum Reprod Update** 1995 Jan;1(1):1–18 (133 ref.)
Vaccines for control of fertility and hormone–dependent cancers. Talwar GP. **Immunol Cell Biol** 1997 Apr; 75(2):184–9
Enhancement in antigen binding by a combination of synergy and antibody capture. Klonisch T, et al. **Immunology** 1996 Oct;89(2):165–71
Immunochemical approach to the mapping of an assembled epitope of human chorionic gonadotropin: proximity of CTP–alpha to the receptor binding region of the beta–subunit. Venkatesh N, et al. **J Immunol Methods** 1997 Mar 28;202(2):173–82
Immunization against exon 1 decapeptides from the lutropin/choriogonadotropin receptor or the follitropin receptor as potential male contraceptive. Remy JJ, et al. **J Reprod Immunol** 1996 Nov;32(1):37–54
Epitope mapping on intact, heated and reduced molecular variants of human chorionic gonadotrophin. Nagy AM, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):51–7
Immunogenicity of a fusion protein linking the beta subunit carboxyl terminal peptide (CTP) of human chorionic gonadotropin to the B subunit of Escherichia coli heat–labile enterotoxin (LTB). Rock EP, et al. **Vaccine** 1996 Nov;14(16):1560–8

ISOLATION & PURIFICATION

Low molecular weight components but not dimeric HCG inhibit growth and down–regulate AP–1 transcription factor in Kaposi's sarcoma cells. Kachra Z, et al. **Endocrinology** 1997 Sep;138(9):4038–41
[Immunohistochemical evidence of immuno–reactive hCG in the secretory endometrium in women] Alexander H, et al. **Zentralbl Gynakol** 1997;119 Suppl 1:17–22 (Eng. Abstr.) **(Ger)**

METABOLISM

Glycosylation beyond the Asn78–linked GlcNAc residue has a significant enhancing effect on the stability of the alpha subunit of human chorionic gonadotropin. van Zuylen CW, et al. **Biochem Biophys Res Commun** 1997 Mar 6; 232(1):117–20
The rotational diffusion of LH receptors differs when receptors are occupied by hCG versus LH and is increased by cytochalasin D. Roess DA, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):98–106
Ligand–induced receptor dimerization may be critical for signal transduction by choriogonadotropin. Grewal N, et al. **Biophys J** 1997 Sep;73(3):1190–7
Metastatic phenotype correlates with high expression of membrane–associated complete beta–human chorionic gonadotropin in vivo. Acevedo HF, et al. **Cancer** 1996 Dec 1;78(11):2388–99
Filamentous phage displaying the extracellular domain of the hLH/CG receptor bind hCG specifically. Lobel LI, et al. **Endocrinology** 1997 Mar;138(3):1232–9
HCG binding to the testicular LH receptor is similar in fertile, subfertile, and infertile stallions. Motton DD, et al. **J Androl** 1997 Jul–Aug;18(4):411–6
The biologic action of single–chain choriogonadotropin is not dependent on the individual disulfide bonds of the beta subunit. Ben–Menahem D, et al. **J Biol Chem** 1997 Mar 14;272(11):6827–30
Expression of human chorionic gonadotropin (hCG)/luteinizing hormone receptors and regulation of the cyclooxygenase–1 gene by exogenous hCG in human fetal membranes. Toth P, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1283–8
Immunization against exon 1 decapeptides from the lutropin/choriogonadotropin receptor or the follitropin receptor as potential male contraceptive. Remy JJ, et al. **J Reprod Immunol** 1996 Nov;32(1):37–54
Evidence for an important functional role of intracellular loop II of the lutropin receptor. Fernandez LM, et al. **Mol Cell Endocrinol** 1997 Apr 4;128(1–2):161–9
Mapping of HCG–receptor complexes. Remy JJ, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):79–91 (51 ref.)
Molecular mechanism of LH/CG receptor activation. Ryu KS, et al. **Mol Cell Endocrinol** 1996 Dec 20;125(1–2):93–100 (34 ref.)
Effect of modification of the beta–hairpin and long loops simultaneously in both alpha– and beta–subunits on the function of human choriogonadotropin: part II. Shao K, et al. **Mol Cell Endocrinol** 1997 Mar 28;127(2):179–87

Effect of modification of all loop regions in the alpha- and beta-subunits of human choriogonadotropin on its signal transduction activity. Shao K, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):173–82

Interaction, signal generation, signal divergence, and signal transduction of LH/CG and the receptor. Ji TH, et al. **Recent Prog Horm Res** 1997;52:431–53; discussion 454 (78 ref.)

PHARMACOKINETICS

Pharmacokinetics and ovarian-stimulatory effects of equine and human chorionic gonadotropins administered singly and in combination in the domestic cat. Swanson WF, et al. **Biol Reprod** 1997 Aug;57(2):295–302

Intratracheal delivery of peptide and protein agents: absorption from solution and dry powder by rat lung. Komada F, et al. **J Pharm Sci** 1994 Jun;83(6):863–7

PHARMACOLOGY

Acute action of choriogonadotropin on Leydig tumor cells: qualitative and quantitative transformation of lipid moieties. Vidic B, et al. **Anat Rec** 1997 Jul;248(3):374–9

Superovulation in llamas (Lama glama) with pFSH and equine chorionic gonadotrophin used individually or in combination. Correa JE, et al. **Anim Reprod Sci** 1997 Apr; 46(3–4):289–96

Changes in plasma luteinizing hormone, testosterone and estradiol-17 beta levels and semen quality after injections of gonadotropin releasing hormone agonist and human chorionic gonadotropin in three dogs with oligozoospermia and two dogs with azoospermia. Kawakami E, et al. **Anim Reprod Sci** 1997 May;47(1–2):157–67

Phenotypical expression in XX males correlates with testicular response to exogenous choriogonadotropin in early infancy: does a variable degree of testicular failure determine the degree of genital ambiguity? Méndez JP, et al. **Arch Androl** 1996 Jul–Aug;37(1):19–26

Human chorionic gonadotropin induces nitric oxide synthase mRNA in mouse peritoneal macrophages. Kim HM, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):548–52

Molecular mechanisms of immunomodulating effect of chorionic gonadotropin on T- and B-lymphocytes of intact spleen. Shirshev SV. **Biochemistry (Mosc)** 1997 May; 62(5):514–22

Ovarian activin receptor subtype and follistatin gene expression in rats: reciprocal regulation by gonadotropins. Aloi JA, et al. **Biol Reprod** 1997 Jun;56(6):1565–9

Induction of apoptosis in equine chorionic gonadotropin (eCG)-primed rat ovaries by anti-eCG antibody. Boone DL, et al. **Biol Reprod** 1997 Aug;57(2):420–7

Sensitivity to exogenous gonadotropins for ovulation induction and laparoscopic artificial insemination in the cheetah and clouded leopard. Howard JG, et al. **Biol Reprod** 1997 Apr;56(4):1059–68

Ovarian intrabursal administration of transforming growth factor beta 1 inhibits follicle rupture in gonadotropin-primed mice. Juneja SC, et al. **Biol Reprod** 1996 Dec;55(6):1444–51

Involvement of angiotensin II in the process of gonadotropin-induced ovulation in rabbits. Kuji N, et al. **Biol Reprod** 1996 Nov;55(5):984–91

Effects of equine chorionic gonadotropin, human chorionic gonadotropin, and laparoscopic artificial insemination on embryo, endocrine, and luteal characteristics in the domestic cat. Roth TL, et al. **Biol Reprod** 1997 Jul; 57(1):165–71

Ligand-induced receptor dimerization may be critical for signal transduction by choriogonadotropin. Grewal N, et al. **Biophys J** 1997 Sep;73(3):1190–7

Acute action of choriogonadotropin on Leydig tumor cells: changes in the topography of the mitochondrial peripheral-type benzodiazepine receptor. Boujrad N, et al. **Endocrinology** 1996 Dec;137(12):5727–30

Low molecular weight components but not dimeric HCG inhibit growth and down-regulate AP-1 transcription factor in Kaposi's sarcoma cells. Kachra Z, et al. **Endocrinology** 1997 Sep;138(9):4038–41

Gonadotropins induce rapid phosphorylation of the 3',5'-cyclic adenosine monophosphate response element binding protein in ovarian granulosa cells. Mukherjee A, et al. **Endocrinology** 1996 Aug;137(8):3234–45

Inhibition of gonadotropin-induced testosterone secretion by the intracerebroventricular injection of interleukin-1 beta in the male rat. Turnbull AV, et al. **Endocrinology** 1997 Mar;138(3):1008–13

Improvement of cytochrome P450c17 catalytic processivity as a novel mechanism to attenuate hormonal consequences of enzyme decay in the testes after a gonadotropin surge. Kühn-Velten WN. **Eur J Endocrinol** 1997 Apr; 136(4):438–43

Ligand-induced rapid desensitization causes structural alteration of rat ovarian LH/hCG receptor. Kolena J, et al. **Exp Clin Endocrinol Diabetes** 1996;104(6):459–63

Nitric oxide modulates human chorionic gonadotropin-induced ovulation in the rabbit. Hesla JS, et al. **Fertil Steril** 1997 Mar;67(3):548–52

Premature luteinization during controlled ovarian hyperstimulation for in vitro fertilization–embryo transfer has no impact on pregnancy outcome. Hofmann GE, et al. **Fertil Steril** 1996 Dec;66(6):980–6

The effect of IL-1 on basal and hCG-stimulated testosterone secretion by Leydig cells of the bank voles (Clethrionomys glareolus, S.). Kmicikiewicz I, et al. **Folia Histochem Cytobiol** 1997;35(2):95–6

Multifactorial regulation of DNA synthesis in goldfish ovarian follicles. Kumar Srivastava R, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):397–403

Cytomorphological changes in the rabbit oviductal epithelium after human chorionic gonadotropin treatment. Bondi AM, et al. **Histol Histopathol** 1997 Jan;12(1):135–46

Effect of human chorionic gonadotrophin on the detachment of human granulosa cells from extracellular matrix layered onto glass or plastic. Aston KE, et al. **Hum Reprod** 1996 Feb;11(2):336–40

Comparison of gonadotrophin-releasing hormone analogues and human chorionic gonadotrophin for the induction of ovulation and prevention of ovarian hyperstimulation syndrome: a case-control study. Lewit N, et al. **Hum Reprod** 1996 Jul;11(7):1399–402

An aminopeptidase inhibitor, bestatin, enhances gonadotrophin-stimulated ovulation in mice. Nakamura K, et al. **Hum Reprod** 1996 Sep;11(9):1952–7

Human chorionic gonadotrophin-induced testicular inflammation may be related to increased sensitivity to interleukin-1. Bergh A, et al. **Int J Androl** 1996 Aug; 19(4):229–36

Androgen action on the restoration of spermatogenesis in adult rats: effects of human chorionic gonadotrophin, testosterone and flutamide administration on germ cell number. Meachem SJ, et al. **Int J Androl** 1997 Apr; 20(2):70–9

A cellular and endocrine characterization of the original and induced corpus luteum after administration of a gonadotropin-releasing hormone agonist or human chorionic gonadotropin on day five of the estrous cycle. Schmitt EJ, et al. **J Anim Sci** 1996 Aug;74(8):1915–29

Evidence for the direct involvement of transmembrane region 6 of the lutropin/choriogonadotropin receptor in activating Gs. Abell AN, et al. **J Biol Chem** 1997 Jun 6; 272(23):14586–91

Co-expression of defective luteinizing hormone receptor fragments partially reconstitutes ligand-induced signal generation. Osuga Y, et al. **J Biol Chem** 1997 Oct 3; 272(40):25006–12

Follicle-stimulating hormone and luteinizing hormone/chorionic gonadotropin stimulation of vascular endothelial growth factor production by macaque granulosa cells from pre- and periovulatory follicles. Christenson LK, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2135–42

Human chorionic gonadotropin stimulates placental prorenin secretion: evidence for autocrine/paracrine regulation. Downing GJ, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1027–30

Stimulation of primate luteal function by recombinant human chorionic gonadotropin and modulation of steroid, but not relaxin, production by an inhibitor of 3 beta-hydroxysteroid dehydrogenase during simulated early pregnancy. Duffy DM, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2307–13

Ovarian 17-hydroxyprogesterone hyperresponsiveness to gonadotropin-releasing hormone (GnRH) agonist challenge in women with polycystic ovary syndrome is not mediated by luteinizing hormone hypersecretion: evidence from GnRH agonist and human chorionic gonadotropin stimulation testing. Ibañez L, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4103–7

Identification of ovarian granulosa cells as a novel site of expression for bone morphogenetic protein-3 (BMP-3/osteogenin) and regulation of BMP-3 messenger ribonucleic acids by chorionic gonadotropin in cultured human granulosa-luteal cells. Jaatinen R, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3877–82

Expression of human chorionic gonadotropin (hCG)/luteinizing hormone receptors and regulation of the cyclooxygenase-1 gene by exogenous hCG in human fetal membranes. Toth P, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1283–8

Luteotrophic factors in hyperstimulated pseudopregnant rabbit: II—High sensitivity to hCG of luteal tissue and small luteal cells. Arioua RK, et al. **J Endocrinol** 1997 Aug; 154(2):259–65

Central and peripheral neural responses in males with idiopathic hypogonadotropic hypogonadism. Ozata M, et al. **J Endocrinol Invest** 1996 Jul–Aug;19(7):449–54

Modulation of K+ conductances by Ca2+ and human chorionic gonadotrophin in Leydig cells from mature rat testis. Desaphy JF, et al. **J Physiol (Lond)** 1996 Aug 15; 495 (Pt 1):23–35

Suppression of matrix metalloproteinase production by hCG in cultures of human luteinized granulosa cells as a model for gonadotrophin-induced luteal rescue. Stamouli A, et al. **J Reprod Fertil** 1996 Jul;107(2):235–9

Significance of oestradiol for follicular development in hypogonadotrophic immature rats treated with FSH and hCG. Uilenbroek JT, et al. **J Reprod Fertil** 1997 Jul; 110(2):231–6

Novel independent and synergistic regulation of gonadotropin-alpha subunit gene by luteinizing hormone/human choriogonadotropin and gonadotropin releasing hormone in the alphaT3-1 gonadotrope cells. Huang ZH, et al. **Mol Cell Endocrinol** 1997 Jun 20; 130(1–2):23–31

Hormonal regulation of PKC-delta protein and mRNA levels in the rabbit corpus luteum. Maizels ET, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):213–21

Effect of gonadotrophin on cell and matrix retention and expression of metalloproteinases and their inhibitor in cultured human granulosa cells modelling corpus luteum function. Aston KE, et al. **Mol Hum Reprod** 1996 Jan; 2(1):26–30

Gonadotrophin regulation of production of tissue inhibitor of metalloproteinases-1 by luteinized human granulosa cells: a potential mechanism for luteal rescue. O'Sullivan MJ, et al. **Mol Hum Reprod** 1997 May;3(5):405–10

Immunohistochemical localization of the LH/HCG receptor in human ovary: HCG enhances cell surface expression of LH/HCG receptor on luteinizing granulosa cells in vitro. Takao Y, et al. **Mol Hum Reprod** 1997 Jul;3(7):569–78

Hormonal regulation of the ligand for c-kit in the rat ovary and its effects on spontaneous oocyte meiotic maturation. Ismail RS, et al. **Mol Reprod Dev** 1996 Apr;43(4):458–69

Influence of FSH and hCG on the resumption of meiosis of bovine oocytes surrounded by cumulus cells connected to membrana granulosa. van Tol HT, et al. **Mol Reprod Dev** 1996 Oct;45(2):218–24

Maturity and fertility of rhesus monkey oocytes collected at different intervals after an ovulatory stimulus (human chorionic gonadotropin) in in vitro fertilization cycles. Wolf DP, et al. **Mol Reprod Dev** 1996 Jan;43(1):76–81

Chimeric proteins can exceed the sum of their parts: implications for evolution and protein design. Campbell RK, et al. **Nat Biotechnol** 1997 May;15(5):439–43

Luteinizing hormone and human chorionic gonadotropin fragment the migrating myoelectric complex in rat small intestine. Ducker TE, et al. **Neurogastroenterol Motil** 1996 Jun;8(2):95–100

Effect of GnRH and hCG on ovulation and pregnancy in mares. Kilicarslan MR, et al. **Vet Rec** 1996 Aug 3; 139(5):119–20

PHYSIOLOGY

The thyrotrophic role of human chorionic gonadotrophin (hCG) in the early stages of twin (versus single) pregnancies. Grün JP, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):719–25

Potential novel roles of luteinizing hormone and human chorionic gonadotropin during early pregnancy in women. Rao CV. **Early Pregnancy** 1997 Mar;3(1):1–9 (88 ref.)

The effect of human chorionic gonadotropin on methotrexate concentration in the rat testes. Bettencourt MC, et al. **J Urol** 1997 Oct;158(4):1581–4

Human chorionic gonadotropin hormone is antiviral. Harris PJ. **Med Hypotheses** 1996 Aug;47(2):71–2

Thyroid hormone as a regulator of basal and human chorionic gonadotrophin-stimulated steroidogenesis by cultured porcine theca and granulosa cells isolated at different stages of the follicular phase. Gregoraszczuk EL, et al. **Reprod Fertil Dev** 1996;8(6):961–7

SECRETION

Hyperthyroidism due to inappropriate production of human chorionic gonadotropin. Goodwin TM, et al. **Clin Obstet Gynecol** 1997 Mar;40(1):32–44 (41 ref.)

Localization by venous sampling of occult chorionic gonadotropin-secreting tumor in a boy with mosaic Klinefelter's syndrome and precocious puberty. Leschek EW, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3825–8

Attenuation of human chorionic gonadotropin release by nitric oxide in choriocarcinoma cell lines. Myat-Thanda, et al. **J Endocrinol** 1996 Aug;150(2):243–53

EGF increases retinoid X receptor-alpha expression in human trophoblastic cells in culture: relationship with retinoic acid induced human chorionic gonadotropin secretion. Roulier S, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1–2):125–35

Analysis of chorionic gonadotrophin secreted by cultured human blastocysts. Lopata A, et al. **Mol Hum Reprod** 1997 Jun;3(6):517–21

Secretion of chorionic gonadotropin from human trophoblasts. Muyan M, et al. **Placenta** 1997 May; 18(4):237–41 (57 ref.)

[Are lung choriocarcinoma and giant cell carcinoma producing chorionic gonadotropins just variants of the same neoplasm?] Slodkowska J, et al. **Pneumonol Alergol Pol** 1996;64(11–12):798–804 (Eng. Abstr.) (Pol)

STANDARDS

'Curing' empty follicle syndrome. Ndukwe G, et al. **Hum Reprod** 1997 Jan;12(1):21–3

THERAPEUTIC USE

Evaluation and management of recurrent spontaneous abortion. Daya S. **Curr Opin Obstet Gynecol** 1996 Jun; 8(3):188–92 (22 ref.)

The influence of patency of the vaginal process on the efficacy of hormonal treatment of cryptorchidism. Varela Cives R, et al. **Eur J Pediatr** 1996 Nov;155(11):932–6

Sequential bilateral adnexal torsion after a single cycle of gonadotropin ovulation induction with intrauterine insemination. Child TJ, et al. **Fertil Steril** 1997 Mar; 67(3):573–5

Progesterone levels on the day of human chorionic gonadotropin do not predict pregnancy outcome from the transfer of fresh or cryopreserved embryos from the same cohort. Moffitt DV, et al. **Fertil Steril** 1997 Feb; 67(2):296–301

Potential enhancement of endometrial receptivity in cycles using controlled ovarian hyperstimulation with antiprogestins: a hypothesis. Paulson RJ, et al. **Fertil Steril** 1997 Feb;67(2):321–5

Progesterone alone versus progesterone combined with HCG as luteal support in GnRHa/HMG induced IVF cycles: a randomized clinical trial. Mochtar MH, et al. **Hum Reprod** 1996 Aug;11(8):1602–5

'Curing' empty follicle syndrome. Ndukwe G, et al. **Hum Reprod** 1997 Jan;12(1):21–3

Treatment with human chorionic gonadotrophin for cryptorchidism: clinical and histological effects. Kaleva M, et al. **Int J Androl** 1996 Oct;19(5):293–8

Gonadotropin therapy in males with hypogonadotropic hypogonadism: factors affecting induction of spermatogenesis after gonadotropin replacement. Fuse H, et al. **Int Urol Nephrol** 1996;28(3):367–74

Relative bioactivity of endogenous luteinizing hormone during superovulation therapy for in vitro fertilization in normal-cycling women. Abuzeid MI, et al. **J Assist Reprod Genet** 1996 Sep;13(8):629–34

Treatment variables in relation to oocyte maturation: lessons from a clinical micromanipulation-assisted in vitro fertilization program. Avrech OM, et al. **J Assist Reprod Genet** 1997 Jul;14(6):337–42

Gonadotropins and glucocorticoid therapy for "low responders"—a controlled study. Bider D, et al. **J Assist Reprod Genet** 1997 Jul;14(6):328–31

Dexamethasone as an adjuvant therapy for anovulatory, normoandrogenic patients during ovulation induction with exogenous gonadotropins. Bider D, et al. **J Assist Reprod Genet** 1996 Sep;13(8):613–6

The effect of elevated serum progesterone during ovulation induction in in vitro fertilization-embryo transfer. Huang JC, et al. **J Assist Reprod Genet** 1996 Sep;13(8):617–24

The role of a human chorionic gonadotropin burst in in vitro fertilization. Shulman A, et al. **J Assist Reprod Genet** 1997 Jan;14(1):23–5

Treatment of isolated hypogonadotropic hypogonadism effect on bone mineral density and bone turnover. Guo CY, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):658–65

Human chorionic gonadotropin hormone prevents wasting syndrome and death in HIV-1 transgenic mice. De SK, et al. **J Clin Invest** 1997 Apr 1;99(7):1484–91

Effect of preoperative human chorionic gonadotropin on intra-abdominal rat testes undergoing standard and Fowler-Stephens orchiopexy. Matthews LA, et al. **J Urol** 1997 Jun;157(6):2315–7

Effect of age at operation, location of testis and preoperative hormonal treatment on testicular growth after cryptorchidism. Taskinen S, et al. **J Urol** 1997 Aug; 158(2):471–3

The effects of preparations of human chorionic gonadotropin on AIDS-related Kaposi's sarcoma [see comments] [published erratum appears in N Engl J Med 1997 Feb 27;336(9):670] Gill PS, et al. **N Engl J Med** 1996 Oct 24; 335(17):1261–9. Comment in: N Engl J Med 1996 Oct 24;335(17):1309–10. Comment in: N Engl J Med 1997 Apr 17;336(16):1187; discussion 1188–9.

Kaposi's sarcoma--what's human chorionic gonadotropin got to do with it? [editorial; comment] [see comments] Krown SE. **N Engl J Med** 1996 Oct 24;335(17):1309–10. Comment on: N Engl J Med 1996 Oct 24;335(17):1261–9. Comment in: N Engl J Med 1997 Apr 17;336(16):1187; discussion 1188–9. Comment in: N Engl J Med 1997 Apr 17;336(16):1187–8; discussion 1188–9.

Intralesional human chorionic gonadotropin for Kaposi's sarcoma [letter; comment] Russo IH. **N Engl J Med** 1997 Apr 17;336(16):1187; discussion 1188–9. Comment on: N Engl J Med 1996 Oct 24;335(17):1261–9.

Evaluation of the postcoital test in cycles involving exogenous gonadotropins. Bush MR, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):780–4

Apoptotic cell death in the normal and cryptorchid human testis: the effect of human chorionic gonadotropin on testicular cell survival. Heiskanen P, et al. **Pediatr Res** 1996 Aug;40(2):351–6

Primary gonadotropin releasing hormone and adjunctive human chorionic gonadotropin treatment in cryptorchidism: a clinical trial. Nane I, et al. **Urology** 1997 Jan;49(1):108–11

[Controlled hyperstimulation in intra-uterine inseminations: hMG-hCG protocol (204 cycles)] Abboud P, et al. **Contracept Fertil Sex** 1997 Jun;25(6):463–9 (Eng. Abstr.) **(Fre)**

[Clinical use of recombinant gonadotropins (FSH, LH, hCG)] Antoine JM, et al. **Contracept Fertil Sex** 1997 Feb; 25(2):141–6 (Eng. Abstr.) **(Fre)**

[Response of testosterone to chorionic gonadotropin stimulus in prepubertal cryptorchidism and retractile testes. Age-related changes in gonadal steroidogenesis. Authors'experience] Rossodivita A, et al. **Minerva Pediatr** 1996 Oct;48(10):439–43 (Eng. Abstr.) **(Ita)**

[Medical therapy of cryptorchidism] Zucchini S, et al. **Pediatr Med Chir** 1996 Sep-Oct;18(5 Suppl):35–6 (18 ref.) (Eng. Abstr.) **(Ita)**

[The treatment of chronic diffuse liver diseases with chorionic gonadotropin (a review of the literature)] Usov DV, et al. **Lik Sprava** 1995 Mar-Apr;(3-4):42–6 (55 ref.) **(Rus)**

URINE

ELISA for the measurement of serum and urinary chorionic gonadotropin concentrations in the laboratory macaque. Munro CJ, et al. **Am J Primatol** 1997;41(4):307–22

Immunoprocedures for detecting human chorionic gonadotropin: clinical aspects and doping control. Stenman UH, et al. **Clin Chem** 1997 Jul;43(7):1293–8 (46 ref.)

Evaluation of reproductive function in Turkana women with enzyme immunoassays of urinary hormones in the field. Leslie PW, et al. **Hum Biol** 1996 Feb;68(1):95–117

Immunoaffinity trapping of urinary human chorionic gonadotropin and its high-performance liquid chromatographic-mass spectrometric confirmation. Liu CL, et al. **J Chromatogr B Biomed Appl** 1996 Dec 6; 687(1):213–20

Metabolism of hCG and hLH to multiple urinary forms. Birken S, et al. **Mol Cell Endocrinol** 1996 Dec 20; 125(1-2):121–31 (83 ref.)

Clinical quiz. Eclampsia. Carr BD, et al. **Pediatr Nephrol** 1997 Jun;11(3):383–5

Comparison of 12 assays for detecting hCG and related molecules in urine samples from Down syndrome pregnancies. Cole LA, et al. **Prenat Diagn** 1997 Jul; 17(7):607–14

[Diagnosis and treatment of extrauterine pregnancy in The Netherlands (letter; comment)] Gerretsen G. **Ned Tijdschr Geneeskd** 1996 Sep 7;140(36):1832–3. Comment on: Ned Tijdschr Geneeskd 1996 Jun 29;140(26):1358–61. **(Dut)**

[Immunoenzyme method of the determination of human chorionic gonadotropin using polyclonal antibodies] Iurkina EA, et al. **Klin Lab Diagn** 1997 Jan;(1):8–10 (Eng. Abstr.) **(Rus)**

GONADOTROPINS, CHORIONIC, HUMAN see **GONADOTROPINS, CHORIONIC**

GONADOTROPINS, CHORIONIC, HUMAN BETA SUBUNIT see **CHORIONIC GONADOTROPIN, BETA SUBUNIT, HUMAN**

GONADOTROPINS, EQUINE

ADMINISTRATION & DOSAGE

Superovulation induction in the house musk shrew (Suncus murinus). Matsuzaki T, et al. **Exp Anim** 1997 Jul;46(3):183–9

PHARMACOLOGY

The response of bovine granulosa cells to different gonadotrophins in culture. Kuran M, et al. **Anim Reprod Sci** 1996 Dec 2;45(1-2):1–12

Changes in lysosomal enzyme activities in pre-ovulatory follicles and endometrium of PMSG superovulated rats. Baños ME, et al. **Arch Med Res** 1996 Spring;27(1):49–55

Gonadotropins induce rapid phosphorylation of the 3',5'-cyclic adenosine monophosphate response element binding protein in ovarian granulosa cells. Mukherjee A, et al. **Endocrinology** 1996 Aug;137(8):3234–45

In-vitro modulation of plasminogen activator activity, prostaglandin E and nitric oxide production by interleukin-1 in pregnant mare serum gonadotrophin-primed theca-interstitial cells. Hurwitz A, et al. **Hum Reprod** 1997 Apr;12(4):774–9

An aminopeptidase inhibitor, bestatin, enhances gonadotrophin-stimulated ovulation in mice. Nakamura K, et al. **Hum Reprod** 1996 Sep;11(9):1952–7

Investigation of effects of pregnant mare serum gonadotropin (PMSG) on the chromosomal complement of CD-1 mouse embryos. Ma S, et al. **J Assist Reprod Genet** 1997 Mar; 14(3):162–9

Hormonal regulation of the ligand for c-kit in the rat ovary and its effects on spontaneous oocyte meiotic maturation. Ismail RS, et al. **Mol Reprod Dev** 1996 Apr;43(4):458–69

Pituitary and ovarian response to PMSG and GnRH of a gonadal dysgenetic buffalo. Singh C, et al. **Vet Rec** 1997 May 17;140(20):533

GONADOTROPINS, HUMAN MENOPAUSAL see **MENOTROPINS**

GONADOTROPINS, PITUITARY

see related
RECEPTORS, GONADOTROPIN

ANALYSIS

Validation of radioimmunoassays for two salmon gonadotropins (GTH I and GTH II) and their plasma concentrations throughout the reproductivecycle in male and female rainbow trout (Oncorhynchus mykiss). Prat F, et al. **Biol Reprod** 1996 Jun;54(6):1375–82

Immunohisto- and immunocytochemical studies on the dynamics of TSH and GTH cells in normally metamorphosing, metamorphosed, and metamorphosis-arrested Hynobius retardatus. Yamaguchi M, et al. **Gen Comp Endocrinol** 1996 Dec;104(3):273–83

The adenohypophysis of Mediterranean yellowtail, Seriola dumerilii (Risso, 1810): an immunocytochemical study. García-Hernández MP, et al. **Tissue Cell** 1996 Oct; 28(5):577–85

BIOSYNTHESIS

Primary cultures of dispersed pituitary cells from estradiol-pretreated female silver eels (Anguilla anguilla L.): immunocytochemical characterization of gonadotropic cells and stimulation of gonadotropin release. Montero M, et al. **Gen Comp Endocrinol** 1996 Oct;104(1):103–15

BLOOD

Time course of the effects of different cannabimimetics on prolactin and gonadotrophin secretion: evidence for the presence of CB1 receptors in hypothalamic structures and their involvement in the effects of cannabimimetics. Fernández-Ruiz JJ, et al. **Biochem Pharmacol** 1997 Jun 15; 53(12):1919–27

Changes in plasma gonadotropin II and sex steroid hormones, and sperm production of striped bass after treatment with controlled-release gonadotropin-releasing hormone agonist-delivery systems. Mylonas CC, et al. **Biol Reprod** 1997 Sep;57(3):669–75

Irreversible gonadal damage in male survivors of pediatric Hodgkin's disease. Heikens J, et al. **Cancer** 1996 Nov 1; 78(9):2020–4

Endocrine function and bone metabolism 5 years after autologous bone marrow/blood-derived progenitor cell transplantation. Keilholz U, et al. **Cancer** 1997 Apr 15; 79(8):1617–22

Evidence for a primary abnormality of thecal cell steroidogenesis in the polycystic ovary syndrome. Gilling-Smith C, et al. **Clin Endocrinol (Oxf)** 1997 Jul; 47(1):93–9

Post-menopausal and chronological age have divergent effects on pituitary and hypothalamic function in episodic gonadotrophin secretion. Lambalk CB, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):439–43

Optimal use of hormone determinations in the biochemical diagnosis of the polycystic ovary syndrome. Koskinen P, et al. **Fertil Steril** 1996 Mar;65(3):517–22

Hyperprolactinemia in postmenopausal women. Maor Y, et al. **Fertil Steril** 1997 Apr;67(4):693–6

The effect of chronic testosterone administration on sturgeon gonadotropins in juvenile and pre-vitellogenic white sturgeon (Acipenser transmontanus). Pavlick RJ, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):218–27

A steroidal pheromone and spawning stimuli act via different neuroendocrine mechanisms to increase gonadotropin and milt volume in male goldfish Carassius auratus. Zheng W, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):228–38

Hormone profile during the menstrual cycle at high altitude. Escudero F, et al. **Int J Gynaecol Obstet** 1996 Oct; 55(1):49–58

Clinical features and hormonal characteristics in a case of ovarian arrhenoblastoma. Tita P, et al. **J Endocrinol Invest** 1996 Jul-Aug;19(7):484–7

Results of a study to correlate serum prostate specific antigen and reproductive hormone levels in patients with localized prostate cancer. Vijayakumar S, et al. **J Natl Med Assoc** 1995 Nov;87(11):813–9

Effect of immunization of rams against bovine inhibin alpha 1-26 on semen characteristics, scrotal size, FSH, LH and testosterone concentrations. McKeown RM, et al. **J Reprod Fertil** 1997 Mar;109(2):237–45

Gonadotrope responsiveness in orchidectomized sheep: effect of duration of a simulated follicular phase. Sakurai H, et al. **J Reprod Fertil** 1996 Nov;108(2):211–7

Effects of the Booroola gene (FecB(B)) on bodymass, testis development and hormone concentrations during fetal life. Smith P, et al. **J Reprod Fertil** 1996 Nov;108(2):253–61

Endothelin plasma levels in primary amenorrheic adolescents before and after estrogen treatment. Creatsas GC, et al. **J Soc Gynecol Investig** 1996 Nov-Dec;3(6):350–3

Increased galanin and neuropeptide-Y immunoreactivity within the hypothalamus of ovariectomised ewes following a prolonged period of reduced body weight is associated with changes in plasma growth hormone but not gonadotropin levels. Barker-Gibb ML, et al. **Neuroendocrinology** 1996 Sep;64(3):194–207

Uterine perfusion and endometrial thickness in postmenopausal women on long-term continuous combined estrogen and progestogen replacement. Dören M, et al. **Ultrasound Obstet Gynecol** 1997 Feb;9(2):113–9

[Clomiphene challenge test] Miyake A, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:262–4 (1 ref.) **(Jpn)**

DEFICIENCY

Hypogonadotrophic hypogonadism and primary amenorrhoea associated with increased melatonin secretion from a cystic pineal lesion. Walker AB, et al. **Clin Endocrinol (Oxf)** 1996 Sep;45(3):353–6

GENETICS

Clinical manifestations of genetic defects affecting gonadotrophins and their receptors. Conway GS. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):657–63 (41 ref.)

Molecular cloning of the cDNAs encoding two gonadotropin

beta subunits (GTH-I beta and -II beta) from the goldfish, Carassius auratus. Yoshiura Y, et al.
Gen Comp Endocrinol 1997 Mar;105(3):379–89

Regulation of pituitary gonadotrophin gene expression. Mercer JE, et al. **Hum Reprod Update** 1995 Jul;1(4):363–84 (186 ref.)

Molecular cloning of the cDNAs encoding pituitary glycoprotein hormone alpha- and gonadotropin II beta-subunits of the Japanese eel, Anguilla japonica, and increase in their mRNAs during ovarian development induced by injection of chum salmon pituitary homogenate. Nagae M, et al. **J Mol Endocrinol** 1996 Apr;16(2):171–81

Androgens stimulate gonadotropin-II beta-subunit in eel pituitary cells in vitro. Huang YS, et al.
Mol Cell Endocrinol 1997 Aug 8;131(2):157–66

Novel independent and synergistic regulation of gonadotropin-alpha subunit gene by luteinizing hormone/human choriogonadotropin and gonadotropin releasing hormone in the alphaT3-1 gonadotrope cells. Huang ZH, et al. **Mol Cell Endocrinol** 1997 Jun 20; 130(1-2):23–31

Steroidogenic factor 1 and estradiol receptor act in synergism to regulate the expression of the salmon gonadotropin II beta subunit gene. Drean YL, et al. **Mol Endocrinol** 1996 Mar;10(3):217–29

Teleost FTZ-F1 homolog and its splicing variant determine the expression of the salmon gonadotropin IIbeta subunit gene. Liu D, et al. **Mol Endocrinol** 1997 Jun;11(7):877–90

Gonadotropin alpha-subunit glycoprotein from channel catfish (Ictalurus punctatus) and its expression during hormone-induced ovulation. Liu Z, et al.
Mol Mar Biol Biotechnol 1997 Sep;6(3):217–27

IMMUNOLOGY

Brain–periphery connections: do they play a role in mediating the effect of centrally injected interleukin-1 beta on gonadal function? Turnbull A, et al.
Neuroimmunomodulation 1995 Jul-Aug;2(4):224–35 (79 ref.)

ISOLATION & PURIFICATION

Isolation and characterization of two distinct gonadotropins from the pituitary gland of Mediterranean yellowtail, Seriola dumerilii (Risso, 1810). García-Hernández MP, et al. **Gen Comp Endocrinol** 1997 Jun;106(3):389–99

METABOLISM

Effects of thyroid status on pituitary gonadotropin and testicular reserve in men. Velázquez EM, et al.
Arch Androl 1997 Jan-Feb;38(1):85–92

Ontogeny of gene expression in the gonadotroph of the developing female rat. Wilson ME, et al. **Biol Reprod** 1997 Feb;56(2):563–8

Changes in percentages of adenohypophysial gonadotrophs associated with the sex-specific, selective increase in serum follicle-stimulating hormone concentration in the juvenile female hamster. Woller MJ, et al. **Biol Reprod** 1996 Apr; 54(4):800–8

Gonadotroph adenomas. Snyder PJ.
Curr Ther Endocrinol Metab 1997;6:56–8 (4 ref.)

Changes in expression of epidermal growth factor receptors by anterior pituitary cells during the estrous cycle: cyclic expression by gonadotropes. Armstrong J, et al.
Endocrinology 1997 May;138(5):1903–8

Preliminary evidence suggesting variations of GtH 1 and GtH2 mRNA levels at different stages of gonadal development in rainbow trout, Oncorhynchus mykiss. Weil C, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):327–33

Comparative effects of diverse vertebrate gonadotropins on estradiol-17 beta formation in vitro in an immature rat Sertoli cell bioassay. Yu JY, et al.
Gen Comp Endocrinol 1996 Nov;104(2):253–61

Interactions between nutrition, testosterone and inhibin in the control of gonadotrophin secretion in mature rams. Tjondronegoro S, et al. **Reprod Fertil Dev** 1996;8(5):855–62

PHARMACOLOGY

Insulin-like growth factor (IGF)-binding protein production by primary cultures of ovine granulosa and theca cells. The effects of IGF-I, gonadotropin, and follicle size. Armstrong DG, et al. **Biol Reprod** 1996 Nov;55(5):1163–71

Stimulation of brook trout ovarian steroidogenesis by gonadotropins I and II is mediated by the cyclic adenosine 3',5'-monophosphate/protein kinase A pathway. Planas JV, et al. **Biol Reprod** 1997 Sep;57(3):647–54

Responsiveness of adenylate cyclase to pituitary gonadotropins and evidence of a hormone-induced desensitization in the lizard ovary. Borrelli L, et al.
Gen Comp Endocrinol 1997 Jul;107(1):23–31

Interaction among bovine somatotropin, insulin, and gonadotropins on steroid production by bovine granulosa and thecal cells. Spicer LJ, et al. **J Dairy Sci** 1996 May; 79(5):813–21

Male pronuclear formation and early embryonic development of hamster oocytes matured in vitro with gonadotrophins, amino acids and cysteamine. Kito S, et al.
J Reprod Fertil 1997 May;110(1):35–46

Aromatase activity of ovine follicular walls: technical validation and physiological control. Driancourt MA, et al. **Reprod Fertil Dev** 1996;8(5):875–84

PHYSIOLOGY

Presence and localization of endothelin receptor in the rat ovary and its regulation by pituitary gonadotropins [see comments] Otani H, et al. **Eur J Endocrinol** 1996 Oct; 135(4):449–54. Comment in: Eur J Endocrinol 1996 Oct;135(4):391–3.

Gonadotropins beta-GtHI and beta-GtHII from the gilthead seabream, Sparus aurata. Elizur A, et al.
Gen Comp Endocrinol 1996 Apr;102(1):39–46

In vitro maturation of buffalo oocytes: role of insulin and its interaction with gonadotrophins. Totey SM, et al.
J Reprod Fertil Suppl 1996;50:113–9 (45 ref.)

[The effect of prenatal stress on the development of hypophyseal gonadotropic function in male rats] Tarasenko LV, et al. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):39–45 (Eng. Abstr.) **(Rus)**

SECRETION

Pituitary gonadotrophs are strongly activated at the beginning of spermatogenesis in African catfish, Clarias gariepinus. Schulz RW, et al. **Biol Reprod** 1997 Jul; 57(1):139–47

Ovarian function in women with non-insulin dependent diabetes mellitus. Stamataki KE, et al.
Clin Endocrinol (Oxf) 1996 Nov;45(5):615–21

Ovariectomy-evoked increase in gonadotropin releasing hormone receptor parallels its messenger RNA level, but does not correlate with stimulated gonadotropin release. Saito S, et al. **Endocr J** 1996 Apr;43(2):139–43

Effects of short-term treatment of a gonadotropin-releasing hormone agonist on the follicular development and gonadotropin secretion in the rat. Krishna A, et al.
Endocr Res 1996 Aug;22(3):299–310

Identification by polymerase chain reaction of the G protein-coupled receptor kinases expressed in the mouse gonadotropic alpha T3-1 cell line. Neill JD, et al.
Endocrinology 1996 Sep;137(9):3942–7

Wortmannin-sensitive and -insensitive steps in calcium-controlled exocytosis in pituitary gonadotrophs: evidence that myosin light chain kinase mediates calcium-dependent and wortmannin-sensitive gonadotropin secretion. Rao K, et al. **Endocrinology** 1997 Apr;138(4):1440–9

Melatonin influences gonadotropin II secretion in the Atlantic croaker (Micropogonias undulatus). Khan IA, et al. **Gen Comp Endocrinol** 1996 Nov;104(2):231–42

Occurrence of immunoreactive activin/inhibin beta(B) in gonadotrophs, thyrotrophs, and somatotrophs of the Xenopus pituitary. Uchiyama H, et al.
Gen Comp Endocrinol 1996 Apr;102(1):1–10

Pituitary and gonadal responses to the long-term pulsatile administration of gonadotrophin-releasing hormone in fetal sheep. Thomas GB, et al. **J Endocrinol** 1997 Jun; 153(3):385–91

Persistent suppression of the pituitary-gonadal system in female rats by three-month depot injectable microspheres of leuprorelin acetate. Okada H, et al. **J Pharm Sci** 1996 Oct;85(10):1044–8

Dopaminergic regulation of gonadotrophin secretion in seasonally anoestrous mares. Besognet B, et al.
J Reprod Fertil 1996 Sep;108(1):55–61

Patterns of secretion of GnRH, LH and FSH during the postovulatory period in mares: mechanisms prolonging the LH surge. Irvine CH, et al. **J Reprod Fertil** 1997 Mar; 109(2):263–71

Role of leptin in hypothalamic-pituitary function. Yu WH, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1023–8

Evidence that the posterior pituitary plays a role in neuropeptide Y and luteinizing hormone-releasing hormone-stimulated gonadotropin secretion in vitro. O'Conner JL, et al. **Proc Soc Exp Biol Med** 1996 Oct; 213(1):59–64

[Gonadotropi adenoma linking labeled somatostatin analogs. Lack of relationship with therapeutic effect] Evrard A, et al. **Ann Endocrinol (Paris)** 1996;57(3):209–14 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Gonadotropic preparations--lessons learned [editorial] Lunenfeld B, et al. **Fertil Steril** 1997 May;67(5):812–4

Growth hormone cotreatment with gonadotropins in ovulation induction. Artini PG, et al.
J Endocrinol Invest 1996 Dec;19(11):763–79 (128 ref.)

GONADS

see related
CASTRATION
SEX REVERSAL, GONADAL

ABNORMALITIES

Abnormal gonadal differentiation in two subjects with ambiguous genitalia, Mullerian structures, and normally developed testes: evidence for a defect in gonadal ridge development. Fuqua JS, et al. **Hum Genet** 1996 Apr; 97(4):506–11

A true hermaphrodite with bilateral ovotestes: a case report. Sadi AM, et al. **J Obstet Gynaecol Res** 1996 Jun; 22(3):247–51

ANATOMY & HISTOLOGY

Sexual differentiation of the urogenital system of the fetal and neonatal tammar wallaby, Macropus eugenii. Renfree MB, et al. **Anat Embryol (Berl)** 1996 Aug;194(2):111–34

Comparison of immunocytochemical and molecular features with the phenotype in a case of incomplete male pseudohermaphroditism associated with a mutation of the luteinizing hormone receptor. Misrahi M, et al.
J Clin Endocrinol Metab 1997 Jul;82(7):2159–65

BLOOD SUPPLY

Gonadal vein recruitment in renal cell carcinoma: incidence, pathogenesis and clinical significance. Murphy BL, et al.
Clin Radiol 1996 Nov;51(11):797–800

CYTOLOGY

Transfer of male or female primordial germ cells of quail into chick embryonic gonads. Ono T, et al. **Exp Anim** 1996 Oct;45(4):347–52

Stimulation of spermatogenesis or of sex reversal according to the dose of exogenous estradiol-17 beta in juvenile males of protandrous black porgy, Acanthopagrus schlegeli. Chang CF, et al. **Gen Comp Endocrinol** 1995 Dec; 100(3):355–67

Nuclear receptor steroidogenic factor 1 directs embryonic stem cells toward the steroidogenic lineage. Crawford PA, et al. **Mol Cell Biol** 1997 Jul;17(7):3997–4006

DRUG EFFECTS

Effects of environmental mercury on gonadal function in Lake Champlain northern pike (Esox lucius). Friedmann AS, et al. **Bull Environ Contam Toxicol** 1996 Mar; 56(3):486–92

Feminization of male common tern embryos is not correlated with exposure to specific PCB congeners. Nisbet IC, et al. **Bull Environ Contam Toxicol** 1996 Dec;57(6):895–901

Plant phenolic amines: potential effects on sympathoadrenal medullary, hypothalamic-pituitary-adrenal, and hypothalamic-pituitary-gonadal function in ruminants. Vera-Avila HR, et al. **Domest Anim Endocrinol** 1996 Jul; 13(4):285–96 (74 ref.)

Gonadal function of young adults after therapy of malignancies during childhood or adolescence. Müller HL, et al. **Eur J Pediatr** 1996 Sep;155(9):763–9

Endocrine sex reversal of gonads by the aromatase inhibitor Letrozole (CGS 20267) in Emys orbicularis, a turtle with temperature-dependent sex determination.
Richard-Mercier N, et al. **Gen Comp Endocrinol** 1995 Dec; 100(3):314–26

A search for immunoglobulins inhibiting gonadal cell steroidogenesis in premature ovarian failure. Lambert A, et al. **Hum Reprod** 1996 Sep;11(9):1871–6

Neuropeptide Y (NPY) induces gonad reversal in the protogynous bluehead wrasse, Thalassoma bifasciatum (Teleostei: Labridae). Kramer CR, et al. **J Exp Zool** 1997 Oct 1;279(2):133–44

[Gonadal function after chemotherapy for acute lymphoblastic leukemia] Loverro G, et al.
Minerva Ginecol 1996 May;48(5):193–7 (Eng. Abstr.) **(Ita)**

EMBRYOLOGY

SF-1: a key regulator of development and function in the mammalian reproductive system. Ikeda Y.
Acta Paediatr Jpn 1996 Aug;38(4):412–9 (45 ref.)

Expression and function of clift in the development of somatic gonadal precursors within the Drosophila mesoderm. Boyle M, et al. **Development** 1997 Mar; 124(5):971–82

Identical origin of adrenal cortex and gonad revealed by expression profiles of Ad4BP/SF-1. Hatano O, et al.
Genes Cells 1996 Jul;1(7):663–71

The ontogenesis of the steroidogenic tissues. Morohashi K.
Genes Cells 1997 Feb;2(2):95–106 (106 ref.)

Characterization of the first definitive hematopoietic stem cells in the AGM and liver of the mouse embryo. Sánchez MJ, et al. **Immunity** 1996 Dec;5(6):513–25

An mRNA differential display strategy for cloning genes expressed during mouse gonad development. Nordqvist K, et al. **Int J Dev Biol** 1997 Aug;41(4):627–38

Interactions between germ cells and extracellular matrix glycoproteins during migration and gonad assembly in the mouse embryo. García-Castro MI, et al. **J Cell Biol** 1997 Jul 28;138(2):471–80

Migration of primordial germ cells to the developing gonadal ridges in the tammar wallaby Macropus eugenii. Ullmann SL, et al. **J Reprod Fertil** 1997 May;110(1):135–43

Ultrastructural and immunocytochemical analysis of diploid germ cells isolated from fetal rabbit gonads. Moens A, et al. **Zygote** 1997 Feb;5(1):47–60

ENZYMOLOGY

Expression of 17 alpha-hydroxylase and aromatase in the syndrome of androgen resistance: a case report. Doldi N, et al. **Gynecol Endocrinol** 1996 Aug;10(4):281–4

GROWTH & DEVELOPMENT

Reproductive steroids during maturation in a primitive teleost, the Pacific herring (Clupea harengus pallasi).

Carolsfeld J, et al. **Gen Comp Endocrinol** 1996 Sep; 103(3):331–48

Effects of day length and temperature on gonadal development, body mass, and fat depots in white-crowned sparrows, Zonotrichia leucophrys pugetensis. Wingfield JC, et al. **Gen Comp Endocrinol** 1997 Jul;107(1):44–62

Melatonin and 6-hydroxymelatonin sulfate excretion is inversely correlated with gonadal development in children. Commentz JC, et al. **Horm Res** 1997;47(3):97–101

The roles of steroidogenic factor-1 in reproductive function. Parker KL, et al. **Steroids** 1996 Apr;61(4):161–5

METABOLISM

Inhibin and activin have antagonistic paracrine effects on gonadal steroidogenesis during the development of the chicken embryo. Rombauts L, et al. **Biol Reprod** 1996 Jun; 54(6):1229–37

Preliminary evidence suggesting variations of GtH 1 and GtH2 mRNA levels at different stages of gonadal development in rainbow trout, Oncorhynchus mykiss. Weil C, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):327–33

The ovine SOX2 gene: sequence, chromosomal localization and gonadal expression. Payen E, et al. **Gene** 1997 Apr 11;189(1):143–7

Identical origin of adrenal cortex and gonad revealed by expression profiles of Ad4BP/SF-1. Hatano O, et al. **Genes Cells** 1996 Jul;1(7):663–71

A search for immunoglobulins inhibiting gonadal cell steroidogenesis in premature ovarian failure. Lambert A, et al. **Hum Reprod** 1996 Sep;11(9):1871–6

The cAMP response elements of the alpha subunit gene bind similar proteins in trophoblasts and gonadotropes but have distinct functional sequence requirements. Heckert LL, et al. **J Biol Chem** 1996 Dec 6;271(49):31650–6

Comparison of immunocytochemical and molecular features with the phenotype in a case of incomplete male pseudohermaphroditism associated with a mutation of the luteinizing hormone receptor. Misrahi M, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2159–65

Sry gene detection in gonads of intersex patients using FISH. Cho NH, et al. **J Korean Med Sci** 1997 Jun;12(3):204–9

Analysis of the role of Amh and Fra1 in the Sry regulatory pathway. Jeske YW, et al. **Mol Reprod Dev** 1996 Jun; 44(2):153–8

PHYSIOLOGY

Thymus influences liver functions through hypothalamus-pituitary-gonad axis in rats. Li L, et al. **Adv Neuroimmunol** 1996;6(3):289–93 (19 ref.)

Gonadal and photoperiodic influences on body mass regulation in adult male and female prairie voles. Kriegsfeld LJ, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1013–8

Neuromodulatory role of opioidergic system on hypothalamus-pituitary-gonadal axis during puberty. Genazzani AD, et al. **Ann N Y Acad Sci** 1997 Jun 17; 816:76–82 (29 ref.)

Neuroendocrinology of the menstrual cycle. Genazzani AR, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:143–50 (41 ref.)

Neuropeptide Y stimulates beta-endorphin release in the basal hypothalamus: role of gonadal steroids. Kalra PS, et al. **Brain Res** 1995 Dec 24;705(1-2):353–6

Gonadal steroids and astroglial plasticity. Garcia-Segura LM, et al. **Cell Mol Neurobiol** 1996 Apr;16(2):225–37 (80 ref.)

Endothelin receptors and gonadal function: an invited commentary [comment] Stojilkovic SS. **Eur J Endocrinol** 1996 Oct;135(4):391–3 (18 ref.). Comment on: Eur J Endocrinol 1996 Oct;135(4):449–54.

[Family of inhibins and activins: from endocrine to paracrine action] Pigny P, et al. **Ann Endocrinol (Paris)** 1996; 57(5):385–94 (82 ref.) (Eng. Abstr.) **(Fre)**

[Ad4BP/SF-1 and sex differentiation of the gonads] Morohashi K, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun; 41(8 Suppl):1033–41 (32 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Perturbations of hypothalamic-pituitary-gonadal (HPG) axis and adrenal androgen (AA) functions in rheumatoid arthritis. Masi AT, et al. **Baillieres Clin Rheumatol** 1996 May;10(2):295–332 (142 ref.)

RADIATION EFFECTS

Gonadal function of young adults after therapy of malignancies during childhood or adolescence. Müller HL, et al. **Eur J Pediatr** 1996 Sep;155(9):763–9

[Late sequelae of comprehensive antineoplastic therapy in children and adolescents with solid extracranial tumors. Effect on growth, pubertal development and gonadal function] Snajderová M, et al. **Cas Lek Cesk** 1997 May 7;136(9):276–8 (Eng. Abstr.) **(Cze)**

SURGERY

Influence of gonadectomy in eSS diabetic rats. Tarrés MC, et al. **Rev Esp Fisiol** 1997 Jun;53(2):211–6

GONANES

METABOLISM

Involvement of cytochrome P-450 in the 15alpha-hydroxylation of 13-ethyl-gon-4-ene-3,17-dione by Penicillium raistrickii. Irrgang S, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5-6):339–46

PHARMACOLOGY

Onapristone and prostaglandin E2 induction of delivery in the rat in late pregnancy: a model for the analysis of cervical softening. Rechberger T, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):719–23

Influence of an antiprogestin (onapristone) on in vivo and in vitro fertilization. Gonçalves SC, et al. **Anim Reprod Sci** 1997 Mar;46(1-2):55–67

Induction of TGF-beta by an antiprogestin in the human breast cancer cell line T-47D. Dannecker C, et al. **Ann Oncol** 1996 Apr;7(4):391–5

Comparative effectiveness of three antiprogestins alone and in combination with anordiol in terminating pregnancy in the rat. Dao B, et al. **Contraception** 1997 Jan;55(1):35–40

The antiprogestins RU486 and ZK98299 affect follicle-stimulating hormone secretion differentially on estrus, but not on proestrus. Ringstrom SJ, et al. **Endocrinology** 1997 Jun;138(6):2286–90

Antiprogestins inhibit the binding of opioids to mu-opioid receptors in nervous membrane preparations. Maggi R, et al. **Eur J Pharmacol** 1996 Apr 22;301(1-3):169–77

Effect of two antiprogestins (mifepristone and onapristone) on endometrial factors of potential importance for implantation. Cameron ST, et al. **Fertil Steril** 1997 Jun; 67(6):1046–53

Effects of the progesterone antagonists onapristone (ZK 98 299) and ZK 136 799 on surgically induced endometriosis in intact rats. Stoeckemann K, et al. **Hum Reprod** 1995 Dec;10(12):3264–71

The antiovulatory activity of progesterone antagonists is not correlated to their antiprogestational potency in the rat. Schubert C, et al. **J Steroid Biochem Mol Biol** 1996 Sep; 59(1):75–82

Induction of a novel conformation in the progesterone receptor by ZK299 involves a defined region of the carboxyl-terminal tail. Allan GF, et al. **Mol Endocrinol** 1996 Oct;10(10):1206–13

GONGFU see **MARTIAL ARTS**

GONGYLONEMA see **SPIRUROIDEA**

GONIOSCOPY

METHODS

Gonioscopy: evaluation of the anterior chamber angle. Part II. Prokopich CL, et al. **Ophthalmic Physiol Opt** 1997 Mar; 17 Suppl 1:S9–13 (5 ref.)

Comparison of carboxymethylcellulose vs. hydroxypropyl methylcellulose as a gonioscopic fluid. Nguyen TP, et al. **Optom Vis Sci** 1996 Jul;73(7):466–72

GONIOTOMY see **TRABECULECTOMY**

GONOCOCCUS see **NEISSERIA GONORRHOEAE**

GONORRHEA

The association of Chlamydia trachomatis/gonococcal infection and tubal factor infertility. Swasdio K, et al. **J Obstet Gynaecol Res** 1996 Aug;22(4):331–40

CEREBROSPINAL FLUID

Gonococcal infection in cerebrospinal fluid and the presence of a ventriculoperitoneal shunt. Morgan DC, et al. **J Pediatr Adolesc Gynecol** 1997 May;10(2):93–4

COMPLICATIONS

HIV infection in female prostitutes from Benin: association with symptomatic but not asymptomatic gonococcal or chlamydial infections [letter] Baganizi E, et al. **AIDS** 1997 Apr;11(5):685–6

Peroneal tenosynovitis following acute gonococcal infection. Brown JT, et al. **Am J Orthop** 1996 Jun;25(6):445–7

Infectious disease case study. A man with fever and multiple joint pains. Golledge C. **Aust Fam Physician** 1996 Oct; 25(10):1639

Gonococcal endocarditis in a patient with systemic lupus erythematosus. Tikly M, et al. **Br J Rheumatol** 1997 Feb; 36(2):270–2 (14 ref.)

Neisseria gonorrhoeae: a previously unreported cause of pre-septal cellulitis [letter] Henderson TR, et al. **Eye** 1997; 11 (Pt 1):130–2

Risk for gonococcal and chlamydial cervicitis in adolescent females: incidence and recurrence in a prospective cohort study. Oh MK, et al. **J Adolesc Health** 1996 Apr; 18(4):270–5

Acute gonococcal flexor tenosynovitis. Krieger LE, et al. **Orthopedics** 1997 Jul;20(7):649–50

Gonococcal endocarditis. Cartwright I, et al. **Sex Transm Dis** 1996 May-Jun;23(3):181–3

Early intervention for human immunodeficiency virus in Baltimore Sexually Transmitted Diseases Clinics. Impact on gonorrhea incidence in patients infected with HIV. Golden MR, et al. **Sex Transm Dis** 1996 Sep-Oct; 23(5):370–7

Decreasing incidences of gonorrhea- and chlamydia-associated acute pelvic inflammatory disease. A 25-year study from an urban area of central Sweden. Kamwendo F, et al. **Sex Transm Dis** 1996 Sep-Oct; 23(5):384–91

Neurocognitive impairment in human immunodeficiency virus infection is correlated with sexually transmitted disease history. Wallace MR, et al. **Sex Transm Dis** 1997 Aug;24(7):398–401

Neisseria gonorrhoeae endocarditis. Pate MA, et al. **Trop Doct** 1996 Jul;26(3):131

[Analysis of obstructive dystocia due to cervical adhesion caused by gonococcal infection] Han Y. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Jul;31(7):415–6 (Eng. Abstr.) **(Chi)**

DIAGNOSIS

Screening women for gonorrhea: demographic screening criteria for general clinical use. Mertz KJ, et al. **Am J Public Health** 1997 Sep;87(9):1535–8

Neisseria gonorrhoeae RNA/DNA hybridization and culture for screening of gonococcal infections in a low-prevalence population. Sednaoui P, et al. **Eur J Epidemiol** 1996 Dec; 12(6):651–4

The diagnosis of oropharyngeal gonorrhoea. Barlow D. **Genitourin Med** 1997 Feb;73(1):16–7 (18 ref.)

Systemic gonococcal infection. Ross JD. **Genitourin Med** 1996 Dec;72(6):404–7 (68 ref.)

Gonorrhoea in men: clinical and diagnostic aspects. Sherrard J, et al. **Genitourin Med** 1996 Dec;72(6):422–6

Non-cultural detection of rectal and pharyngeal gonorrhoea by the Gen-Probe PACE 2 assay. Young H, et al. **Genitourin Med** 1997 Feb;73(1):59–62

Is one diagnostic testing of multiple sites enough to detect gonorrhoea infection in women? Harry TC, et al. **Int J STD AIDS** 1997 Jan;8(1):64–5

Is Trichomonas vaginalis still a marker for other sexually transmitted infections in women? Reynolds M, et al. **Int J STD AIDS** 1996 Mar-Apr;7(2):131–2

On the need to screen for Chlamydia and gonorrhea infections prior to colposcopy in adolescents. Harel Z, et al. **J Adolesc Health** 1997 Aug;21(2):87–90

Diagnosis of Neisseria gonorrhoeae infections in women by using the ligase chain reaction on patient-obtained vaginal swabs. Hook EW 3rd, et al. **J Clin Microbiol** 1997 Aug; 35(8):2129–32

Urinary diagnosis of gonorrhoea and Chlamydia in men in remote aboriginal communities [see comments] Skov SJ, et al. **Med J Aust** 1997 May 5;166(9):468–71. Comment in: Med J Aust 1997 May 5;166(9):456–7.

Rapid antigen tests for Neisseria gonorrhoeae and Chlamydia trachomatis are not accurate for screening women with disturbed vaginal lactobacillary flora. Donders GG, et al. **Scand J Infect Dis** 1996;28(6):559–62

[Diagnosis of chlamydial and gonococcal infection using the polymerase chain reaction method] Shcherbo SN, et al. **Klin Lab Diagn** 1997 Jul;(7):6–9 **(Rus)**

[The antilysozyme activity of the causative agent in the diagnosis and prognosis of the course of gonococcal infection] Voronina LG. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul-Aug;(4):96–8 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Dose-ranging study of CP-99,219 (trovafloxacin) for treatment of uncomplicated gonorrhea. Hook EW 3rd, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1720–1

Comparison of single-dose oral grepafloxacin with cefixime for treatment of uncomplicated gonorrhea in men. The STD Study Group. Hook EW 3rd, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1843–5

Comparison of single-dose cefuroxime axetil with ciprofloxacin in treatment of uncomplicated gonorrhea caused by penicillinase-producing and non-penicillinase-producing Neisseria gonorrhoeae strains. Thorpe EM, et al. **Antimicrob Agents Chemother** 1996 Dec; 40(12):2775–80

Antimicrobial resistance in Neisseria gonorrhoeae. Lind I. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S93–7 (70 ref.)

Fluoroquinolone resistance in Neisseria gonorrhoeae. Knapp JS, et al. **Emerg Infect Dis** 1997 Jan-Mar;3(1):33–9 (44 ref.)

Antibiotic treatment of gonorrhoea--clinical evidence for choice. Bignell C. **Genitourin Med** 1996 Oct;72(5):315–20 (63 ref.)

Antibiotic treatment for gonorrhoea in the UK [letter; comment] Fitzgerald M. **Genitourin Med** 1997 Apr; 73(2):149. Comment on: Genitourin Med 1996 Aug;72(4):253–7. Comment on: Genitourin Med 1996 Aug;72(4):302.

Antimicrobial agents and gonorrhoea: therapeutic choice, resistance and susceptibility testing [see comments] Ison CA. **Genitourin Med** 1996 Aug;72(4):253–7 (46 ref.). Comment in: Genitourin Med 1997 Apr;73(2):149.

Azithromycin in gonorrhoea [letter] Handsfield HH. **Int J STD AIDS** 1997 Jul;8(7):472–3

An audit of the problems in management of patients with gonorrhoea. Singh G, et al. **Int J STD AIDS** 1997 Mar; 8(3):208–9

Development of in-vivo resistance after quinolone treatment of gonococcal urethritis [letter] Vila J, et al. **J Antimicrob Chemother** 1997 Jun;39(6):841

Comparative trial of azithromycin and ciprofloxacin in the treatment of gonorrhea. Gruber F, et al. **J Chemother** 1997 Aug;9(4):263–6

Fluoroquinolone treatment failure in gonorrhea. Emergence of a Neisseria gonorrhoeae strain with enhanced resistance to fluoroquinolones. Deguchi T, et al. **Sex Transm Dis** 1997 May;24(5):247–50

Multicenter trial of single-dose azithromycin vs. ceftriaxone in the treatment of uncomplicated gonorrhea. Azithromycin Gonorrhea Study Group. Handsfield HH, et al. **Sex Transm Dis** 1994 Mar–Apr;21(2):107–11

Quinolone-resistant Neisseria gonorrhoeae in Hong Kong. Kam KM, et al. **Sex Transm Dis** 1996 Mar–Apr;23(2):103–8

Ciprofloxacin for gonorrhea—250 mg or 500 mg? [letter; comment] Moran JS. **Sex Transm Dis** 1996 Mar–Apr; 23(2):165–7. Comment on: Sex Transm Dis 1994 Nov–Dec;21(6):345–52.

Positive screening tests for gonorrhea and chlamydial infection fail to lead consistently to treatment of patients attending a sexually transmitted disease clinic. Schwebke JR, et al. **Sex Transm Dis** 1997 Apr;24(4):181–4

Gonococcal susceptibility to antimicrobials in Baltimore, 1988–1994. What was the impact of ciprofloxacin as first-line therapy for gonorrhea? Zenilman JM. **Sex Transm Dis** 1996 May–Jun;23(3):213–8

Increasing prevalence of penicillinase-producing Neisseria gonorrhoeae and the emergence of high-level, plasmid-mediated tetracycline resistance among gonococcal isolates in The Gambia. Adegbola RA, et al. **Trop Med Int Health** 1997 May;2(5):428–32

Antibiotic sensitivity of Neisseria gonorrhoeae isolates in Barbados: longitudinal surveillance 1990–1994. Levett PN. **West Indian Med J** 1995 Dec;44(4):130–2

The Gonococcal Antimicrobial Surveillance Programme (GASP). WHO Western Pacific Region. **Wkly Epidemiol Rec** 1996 Oct 11;71(41):309–11 **(Eng, Fre)**

The Gonococcal Antimicrobial Surveillance Programme (GASP). WHO western Pacific region, 1995. **Wkly Epidemiol Rec** 1997 Jan 31;72(5):25–7 **(Eng, Fre)**

[Clinico-laboratory evaluation of the effectiveness of azithromycin in the treatment of patients with Chlamydia and mixed Chlamydia-gonorrhea infections] Vasil'ev MM, et al. **Antibiot Khimioter** 1996 Feb;41(2):9–13 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Gonorrhoea in homosexual men in London [letter] Sherrard J, et al. **AIDS** 1996 Feb;10(2):236–7

Analysis of the sociodemography of gonorrhoea in Leeds, 1989–93 [see comments] Lacey CJ, et al. **BMJ** 1997 Jun 14;314(7096):1715–8. Comment in: BMJ 1997 Jun 14;314(7096):1703–4.

Gonorrhoea in inner London: results of a cross sectional study [see comments] Low N, et al. **BMJ** 1997 Jun 14; 314(7096):1719–23. Comment in: BMJ 1997 Jun 14;314(7096):1703–4.

Trends in gonorrhea in Canada, 1990–1995. Squires S, et al. **Can Commun Dis Rep** 1997 Jun 15;23(12):89–95 (10 ref.) **(Eng, Fre)**

The incidence of gonorrhoea in England and Wales is rising. **Commun Dis Rep CDR Wkly** 1997 Jun 20;7(25):217; 220

Epidemiology of gonococcal and chlamydial infections in Harrow and Brent [letter; comment] Adler MW. **Genitourin Med** 1997 Apr;73(2):149. Comment on: Genitourin Med 1996 Oct;72(5):352–7.

Can the management of gonorrhoea be improved? [editorial] Fitzgerald M. **Genitourin Med** 1997 Feb;73(1):3–4

Epidemiology of gonococcal and chlamydial infections in Harrow and Brent [see comments] Matondo P, et al. **Genitourin Med** 1996 Oct;72(5):352–7. Comment in: Genitourin Med 1997 Apr;73(2):149.

Heterosexual gonorrhoea at St Thomas'—I: Patient characteristics and implications for targeted STD and HIV prevention strategies. Daker-White G, et al. **Int J STD AIDS** 1997 Jan;8(1):32–5

Gonorrhoea in Coventry 1991–1994: epidemiology, coinfection and evaluation of partner notification in the STD clinic. David LM, et al. **Int J STD AIDS** 1997 May; 8(5):311–6

National standards for contact tracing in gonorrhoea. Royal College of Physicians, National Audit Development Programme in Sexual Health. FitzGerald M, et al. **Int J STD AIDS** 1996 Jul;7(4):301

Men with repeated episodes of gonorrhoea 1990–1992. Sherrard J, et al. **Int J STD AIDS** 1996 Jul;7(4):281–3

Sexual contact tracing outcome in adolescent chlamydial and gonococcal cervicitis cases. Oh MK, et al. **J Adolesc Health** 1996 Jan;18(1):4–9

Incidence of three sexually transmitted diseases during a safer sex promotion program for HIV-infected women. Kissinger P, et al. **J Gen Intern Med** 1996 Dec;11(12):750–2

An investigation of geographic clustering of repeat cases of gonorrhea and chlamydial infection in San Francisco, 1989–1993: evidence for core groups. Ellen JM, et al. **J Infect Dis** 1997 Jun;175(6):1519–22

From the Centers for Disease Control and Prevention. Gonorrhea among men who have sex with men—selected sexually transmitted diseases clinics, 1993–1996. **JAMA** 1997 Oct 15;278(15):1228–9

Gonorrhea among men who have sex with men—selected sexually transmitted diseases clinics, 1993–1996. **MMWR Morb Mortal Wkly Rep** 1997 Sep 26;46(38):889–92

The frequency of co-infection with Neisseria gonorrhoeae and Chlamydia trachomatis in men and women in eastern Sydney. Tapsall JW, et al. **Pathology** 1996 Jan;28(1):84–7

A population-based study of sexually transmitted disease incidence and risk factors in human immunodeficiency virus-infected people. Belongia EA, et al. **Sex Transm Dis** 1997 May;24(5):251–6

Antibiotic susceptibility patterns and plasmid profiles of penicillinase-producing Neisseria gonorrhoeae strains in Durban, South Africa, 1990–1993. Chenia HY, et al. **Sex Transm Dis** 1997 Jan;24(1):18–22

The link between the use of crack cocaine and the sexually transmitted diseases of a clinic population. A comparison of adolescents with adults. Ellen JM, et al. **Sex Transm Dis** 1996 Nov–Dec;23(6):511–6

Evaluation of a screening algorithm for the diagnosis of genital infections with Neisseria gonorrhoeae and Chlamydia trachomatis among female sexworkers in Bénin. Germain M, et al. **Sex Transm Dis** 1997 Feb;24(2):109–15

The role of sexual partnership networks in the epidemiology of gonorrhea. Ghani AC, et al. **Sex Transm Dis** 1997 Jan; 24(1):45–56

Risk factors for pelvic inflammatory disease. A case control study. Jossens MO, et al. **Sex Transm Dis** 1996 May–Jun; 23(3):239–47

Molecular epidemiology, in 1994, of Neisseria gonorrhoeae in Manila and Cebu City, Republic of the Philippines. Knapp JS, et al. **Sex Transm Dis** 1997 Jan;24(1):2–7

Trends in the acquisition of sexually transmitted diseases among HIV-positive patients at STD clinics, Miami 1988–1992. Osewe PL, et al. **Sex Transm Dis** 1996 May–Jun;23(3):230–3

Quinolone-resistant Neisseria gonorrhoeae isolated in Sydney, Australia, 1991 to 1995. Tapsall JW, et al. **Sex Transm Dis** 1996 Sep–Oct;23(5):425–8

Increasing resistance of Neisseria gonorrhoeae in west and central Africa. Consequence on therapy of gonococcal infection. Van Dyck E, et al. **Sex Transm Dis** 1997 Jan; 24(1):32–7

Sexually transmitted diseases: United States, 1995. Mushinski M. **Stat Bull Metrop Insur Co** 1997 Apr–Jun;78(2):10–7

Increasing prevalence of penicillinase-producing Neisseria gonorrhoeae and the emergence of high-level, plasmid-mediated tetracycline resistance among gonococcal isolates in The Gambia. Adegbola RA, et al. **Trop Med Int Health** 1997 May;2(5):428–32

[The effect of the AIDS campaign on case numbers of male urethritis] Kojima H. **Nippon Koshu Eisei Zasshi** 1996 Jul; 43(7):545–50 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Reduced prevalence of cervical Chlamydia infection among women requesting termination. Jónsdóttir K, et al. **Acta Obstet Gynecol Scand** 1997 May;76(5):438–41

Penile implant as a risk factor for sexually acquired gonococcal and chlamydial urethritis in the elderly. Morgan DJ, et al. **Int J STD AIDS** 1996 Jul;7(4):292–4

IMMUNOLOGY

Serological and clinical correlates of gonorrhoea and syphilis in fertile and infertile Nigerian women. Okonofua FE, et al. **Genitourin Med** 1997 Jun;73(3):194–7

An in vitro-differentiated human cell line as a model system to study the interaction of Neisseria gonorrhoeae with phagocytic cells. Hauck CR, et al. **Infect Immun** 1997 May; 65(5):1863–9

Immunogenicity of Neisseria gonorrhoeae lipooligosaccharide epitope 2C7, widely expressed in vivo with no immunochemical similarity to human glycosphingolipids [published erratum appears in J Infect Dis 1997 Apr;175(4):1027] Gulati S, et al. **J Infect Dis** 1996 Dec;174(6):1223–37

Experimental immunization with a monoclonal anti-idiotope antibody that mimics the Neisseria gonorrhoeae lipooligosaccharide epitope 2C7. Gulati S, et al. **J Infect Dis** 1996 Dec;174(6):1238–48

Neisseria gonorrhoeae: vaginal clearance and its correlation with resistance to infection in subcutaneous chambers in orally immunized estradiol-primed mice. Arko RJ, et al. **Vaccine** 1997 Aug–Sep;15(12–13):1344–8

MICROBIOLOGY

Uncommon occurrence of mutations in the gyrB gene associated with quinolone resistance in clinical isolates of Neisseria gonorrhoeae [letter] Deguchi T, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2437–8

Annual report of the Australian Gonococcal Surveillance Programme 1996. Tapsall J. **Commun Dis Intell** 1997 Jul 10;21(14):189–92

Determinants of the gonococcal serovar pattern in Edinburgh, Scotland: a multivariate analysis. Ross JD, et al. **Int J STD AIDS** 1996 Nov–Dec;7(7):513–7

Prevalence of Mycoplasma genitalium in men with gonococcal urethritis. Uno M, et al. **Int J STD AIDS** 1996 Oct;7(6):443–4

Detection of Chlamydia trachomatis and Neisseria gonorrhoeae by ligase chain reaction-based assays with clinical specimens from various sites: implications for diagnostic testing and screening. Buimer M, et al. **J Clin Microbiol** 1996 Oct;34(10):2395–400

Auxotypes and serogroups of tetracycline-resistant Neisseria gonorrhoeae isolated in Malaysia. Koay AS, et al. **J Clin Microbiol** 1996 Jul;34(7):1863–5

Prevalence of fluorescent monoclonal antibody-nonreactive Neisseria gonorrhoeae in five North American sexually transmitted disease clinics. Smith KR, et al. **J Clin Microbiol** 1996 Jun;34(6):1551–2

Comparison of ligase chain reaction and culture for detection of Neisseria gonorrhoeae in genital and extragenital specimens. Stary A, et al. **J Clin Microbiol** 1997 Jan; 35(1):239–42

Antimicrobial resistance in Neisseria gonorrhoeae in the United States, 1988–1994: the emergence of decreased susceptibility to the fluoroquinolones. Fox KK, et al. **J Infect Dis** 1997 Jun;175(6):1396–403

Analysis of Neisseria gonorrhoeae in Ontario, Canada, with decreased susceptibility to quinolones by pulsed-field gel electrophoresis, auxotyping, serotyping and plasmid content. Harnett N, et al. **J Med Microbiol** 1997 May; 46(5):383–90

Variation within serovars of Neisseria gonorrhoeae detected by structural analysis of outer-membrane protein PIB and by pulsed-field gel electrophoresis. Cooke SJ, et al. **Microbiology** 1997 Apr;143 (Pt 4):1415–22

Arginine-, hypoxanthine-, uracil-requiring isolates of Neisseria gonorrhoeae are a clonal lineage with a non-clonal population. Gutjahr TS, et al. **Microbiology** 1997 Feb;143 (Pt 2):633–40

Antibiotic susceptibility patterns and plasmid profiles of penicillinase-producing Neisseria gonorrhoeae strains in Durban, South Africa, 1990–1993. Chenia HY, et al. **Sex Transm Dis** 1997 Jan;24(1):18–22

A clinical isolate of Neisseria gonorrhoeae with in vitro resistance to erythromycin and decreased susceptibility to azithromycin. Ehret JM, et al. **Sex Transm Dis** 1996 Jul–Aug;23(4):270–2

Molecular epidemiology, in 1994, of Neisseria gonorrhoeae in Manila and Cebu City, Republic of the Philippines. Knapp JS, et al. **Sex Transm Dis** 1997 Jan;24(1):2–7

Tetracycline-resistant Neisseria gonorrhoeae. Characteristics of patients and isolates at a London Genitourinary Medicine Clinic. Lewis DA, et al. **Sex Transm Dis** 1996 Sep–Oct;23(5):378–83

Quinolone-resistant Neisseria gonorrhoeae isolated in Sydney, Australia, 1991 to 1995. Tapsall JW, et al. **Sex Transm Dis** 1996 Sep–Oct;23(5):425–8

Molecular epidemiology of infections with Neisseria gonorrhoeae among visitors to a sexually transmitted diseases clinic. van Duynhoven YT, et al. **Sex Transm Dis** 1997 Aug;24(7):409–17

Increasing resistance of Neisseria gonorrhoeae in west and central Africa. Consequence on therapy of gonococcal infection. Van Dyck E, et al. **Sex Transm Dis** 1997 Jan; 24(1):32–7

[Variation of the incidence and antibiotic sensitivity of Neisseria gonorrhoeae in a 7-year period] Nebreda T, et al. **Enferm Infecc Microbiol Clin** 1996 Aug–Sep;14(7):441–3 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Signs and symptoms of prevalent and incident cases of gonorrhea and genital chlamydial infection among female prostitutes in Kinshasa, Zaire. Alary M, et al. **Clin Infect Dis** 1996 Mar;22(3):477–84

PREVENTION & CONTROL

Impact of a gonorrhea control program, including selective mass treatment, in female sex workers. Holmes KK, et al. **J Infect Dis** 1996 Oct;174 Suppl 2:S230–9

A tale of two sexually transmitted diseases. Prevalences and predictors of chlamydia and gonorrhea in women attending Colorado family planning clinics. Gershman KA, et al. **Sex Transm Dis** 1996 Nov–Dec;23(6):481–8

Early intervention for human immunodeficiency virus in Baltimore Sexually Transmitted Diseases Clinics. Impact on gonorrhea incidence in patients infected with HIV. Golden MR, et al. **Sex Transm Dis** 1996 Sep–Oct; 23(5):370–7

Partner referral by patients with gonorrhea and chlamydial infection. Case-finding observations. van de Laar MJ, et al. **Sex Transm Dis** 1997 Jul;24(6):334–42

THERAPY

Epidemiological treatment and tests of cure in gonococcal infection: evidence for value [letter; comment] Brook G. **Genitourin Med** 1997 Apr;73(2):149–50. Comment on: Genitourin Med 1997 Feb;73(1):12–5.

Epidemiological treatment and tests of cure in gonococcal infection: evidence for value [see comments] Carne CA. **Genitourin Med** 1997 Feb;73(1):12–5 (27 ref.). Comment in: Genitourin Med 1997 Apr;73(2):149–50.

National standards for the management of gonorrhoea. FitzGerald M, et al. **Int J STD AIDS** 1996 Jul;7(4):298–300

TRANSMISSION

Effect of changing partnership formation rates on the spread of sexually transmitted diseases and human immunodeficiency virus. Stigum H, et al. **Am J Epidemiol** 1997 Apr 1;145(7):644–52

Acquisition of pharyngeal gonorrhoea via sweets passed by

mouth [letter] David LM. **Genitourin Med** 1997 Apr; 73(2):146

Heterosexual gonorrhoea at St Thomas'--II: Sexual behaviour and sources of infection. Daker-White G, et al. **Int J STD AIDS** 1997 Feb;8(2):102-8

National standards for contact tracing in gonorrhoea. Royal College of Physicians, National Audit Development Programme in Sexual Health. FitzGerald M, et al. **Int J STD AIDS** 1996 Jul;7(4):301

Network methodologies, contact tracing, gonorrhea, and human immunodeficiency virus [editorial; comment] Friedman SR. **Sex Transm Dis** 1996 Nov-Dec;23(6):523-5 . Comment on: Sex Transm Dis 1996 Nov-Dec;23(6):498-503.

Sexual partner networks in the transmission of sexually transmitted diseases. An analysis of gonorrhea cases in Sheffield, UK [see comments] Ghani AC, et al. **Sex Transm Dis** 1996 Nov-Dec;23(6):498-503. Comment in: Sex Transm Dis 1996 Nov-Dec;23(6):523.

Traditional belief: an aid to the spread of sexually transmitted diseases [letter] Bada AS. **Trop Doct** 1997 Oct;27(4):253

[Gonorrhea is increasing among homosexual men. Is the risk of STD and AIDS forgotten?] Grützmeier S. **Lakartidningen** 1997 Jun 11;94(24):2261-2, 2265 **(Swe)**

ULTRASONOGRAPHY

Gonococcal endocarditis: assessment by transesophageal echocardiography. Sobel JL, et al. **J Am Soc Echocardiogr** 1997 May;10(4):367-70

GONOSOMES see **SEX CHROMOSOMES**

GONYAULAX see **DINOFLAGELLIDA**

GONYAULAX TOXIN see **SAXITOXIN**

GOODPASTURE'S SYNDROME

BLOOD

Sera from patients with anti-GBM nephritis including goodpasture syndrome show heterogenous reactivity to recombinant NC1 domain of type IV collagen alpha chains. Dehan P, et al. **Nephrol Dial Transplant** 1996 Nov; 11(11):2215-22

CLASSIFICATION

[The pulmonary-renal syndrome--the nosological and pathogenetic aspects of the problem] Mukhin NA. **Ter Arkh** 1996;68(6):66-9 **(Rus)**

COMPLICATIONS

[Acute necrotizing capillaritis in an adolescent dying from a a Goodpasture-like pulmonary-renal syndrome] Maresi E, et al. **Pathologica** 1995 Dec;87(6):666-71 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Regular measurement of anti-GBM antibodies in Goodpasture's disease? [letter; comment] Greenbaum LA. **Am J Kidney Dis** 1996 Nov;28(5):786. Comment on: Am J Kidney Dis 1996 Apr;27(4):573-8.

Anti-glomerular basement membrane disease: role of enzyme-linked immunosorbent assays in diagnosis. Litwin CM, et al. **Biochem Mol Med** 1996 Oct;59(1):52-6

Development and application of an ELISA for Goodpasture's disease based on sheep alpha 3(IV)NC1 domains. Katbamna I, et al. **J Clin Lab Immunol** 1995; 47(1):11-24

Characteristics and outcome of anti-glomerular basement membrane disease: a single-center experience. Daly C, et al. **Ren Fail** 1996 Jan;18(1):105-12

Thoracoscopic diagnosis of Goodpasture's syndrome. Iwasaki A, et al. **Surg Laparosc Endosc** 1996 Aug;6(4):304-6

[Severe febrile pneumopathy, a diagnostic and therapeutic emergency] Bernady A, et al. **Rev Pneumol Clin** 1996; 52(6):404-7 **(Fre)**

[Goodpasture's disease or syndrome? Apropos of a case] Berti F, et al. **Recenti Prog Med** 1997 Jan;88(1):26-31 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Bronchiolitis obliterans and IgA nephropathy. A new cause of pulmonary-renal syndrome. Hernández JI, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):665-8 (22 ref.)

IMMUNOLOGY

Epitope analysis of the Goodpasture antigen using a resonant mirror biosensor. Levy JB, et al. **Clin Exp Immunol** 1996 Oct;106(1):79-85

Goodpasture syndrome: selective removal of anti-alpha 3 (IV) collagen autoantibodies. A potential therapeutic alternative to plasmapheresis. Boutaud AA, et al. **Exp Nephrol** 1996 Jul-Aug;4(4):205-12

Goodpasture's epitope in development of experimental autoimmune glomerulonephritis in rats. Bolton WK, et al. **Kidney Int** 1996 Feb;49(2):327-34

Anti-GBM antibodies in Goodpasture syndrome; anatomy of an epitope [editorial] Hellmark T, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):646-8 (10 ref.)

PATHOLOGY

Goodpasture's syndrome. Bolton WK. **Kidney Int** 1996 Nov; 50(5):1753-66 (90 ref.)

[Acute hemorrhagic leukoencephalitis in a woman with Goodpasture syndrome] Konstantinov GS. **Arkh Patol** 1997 May-Jun;59(3):58-60 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Goodpasture's syndrome superimposed on membranous nephropathy. A case report. Thitiarchakul S, et al. **Int J Artif Organs** 1995 Dec;18(12):763-5

Goodpasture's syndrome with normal renal function [letter; comment] Kovithavongs T, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1540-1. Comment on: Nephrol Dial Transplant 1996 Nov;11(11):2302-305.

Goodpasture's syndrome with normal renal function [see comments] Min SA, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2302-305. Comment in: Nephrol Dial Transplant 1997 Jul;12(7):1540-1.

SURGERY

A case of resistant Goodpasture's syndrome and staghorn calculus--treatment with bilateral nephrectomy. Pai P, et al. **Clin Nephrol** 1996 Jul;46(1):10-2

THERAPY

Goodpasture syndrome: selective removal of anti-alpha 3 (IV) collagen autoantibodies. A potential therapeutic alternative to plasmapheresis. Boutaud AA, et al. **Exp Nephrol** 1996 Jul-Aug;4(4):205-12

[Goodpasture syndrome: treatment initiation with plasmapheresis before histologic diagnostic verification] Gartenschläger M, et al. **Pneumologie** 1996 Nov; 50(11):764-8 (Eng. Abstr.) **(Ger)**

GORDIUS see **HELMINTHS**

GORHAM DISEASE see **OSTEOLYSIS, ESSENTIAL**

GORILLA GORILLA

Polyclonal lymphoid tumor of the choroid plexus presenting as an intraventricular mass in a young gorilla. Thomas C, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):621-4

Birth of a western lowland gorilla (Gorilla gorilla gorilla) following in vitro fertilization and embryo transfer. Pope CE, et al. **Am J Primatol** 1997;41(3):247-60

Lack of malaria parasite transmission between apes and humans in Gabon. Ollomo B, et al. **Am J Trop Med Hyg** 1997 Apr;56(4):440-5

Strategies for ovulation induction and oocyte retrieval in the lowland gorilla. Hatasaka HH, et al. **J Assist Reprod Genet** 1997 Feb;14(2):102-10

ANATOMY & HISTOLOGY

Sex differences in the sciatic notch of great apes and modern humans. Hager LD. **Am J Phys Anthropol** 1996 Feb; 99(2):287-300

Ontogeny of body size variation in African apes. Leigh SR, et al. **Am J Phys Anthropol** 1996 Jan;99(1):43-65

Relative position and extent of the nasal and orbital openings in Gorilla, Pan and the human species from the study of their areas and centres of area. Schmittbuhl M, et al. **Folia Primatol (Basel)** 1996;67(4):182-92

CLASSIFICATION

Subnasoalveolar anatomy and hominoid phylogeny: evidence from comparative ontogeny. McCollum MA, et al. **Am J Phys Anthropol** 1997 Mar;102(3):377-405

GENETICS

The glycophorin A gene family in gorillas: structure, expression, and comparison with the human and chimpanzee homologues. Xie SS, et al. **Biochem Genet** 1997 Feb;35(1-2):59-76

Mitochondrial DNA diversity in gorillas. Garner KJ, et al. **Mol Phylogenet Evol** 1996 Aug;6(1):39-48

GROWTH & DEVELOPMENT

Relative growth, ontogeny, and sexual dimorphism in gorilla (Gorilla gorilla gorilla and G. g. beringei): evolutionary and ecological considerations. Taylor AB. **Am J Primatol** 1997;43(1):1-31

PHYSIOLOGY

A preliminary investigation of urinary testosterone and cortisol levels in wild male mountain gorillas. Robbins MM, et al. **Am J Primatol** 1997;43(1):51-64

Ontogeny of locomotion in mountain gorillas and chimpanzees. Doran DM. **J Hum Evol** 1997 Apr; 32(4):323-44

GORLIN-PSAUME SYNDROME see **OROFACIODIGITAL SYNDROMES**

GORLIN SYNDROME see **BASAL CELL NEVUS SYNDROME**

GOSERELIN

ADMINISTRATION & DOSAGE

Comparison of hormonal therapy and chemohormonal therapy in patients with newly diagnosed clinical stage D prostatic cancer. Miyake H, et al. **Int J Urol** 1996 Nov; 3(6):472-7

The degree of fluid absorption during hysteroscopic surgery in patients pretreated with goserelin. Taskin O, et al. **J Am Assoc Gynecol Laparosc** 1996 Aug;3(4):555-9

ADVERSE EFFECTS

Case report: systemic hypersensitivity reaction to goserelin acetate. Raj SG, et al. **Am J Med Sci** 1996 Oct; 312(4):187-90

Multiple polypoid endometriosis--a rare complication following withdrawal of gonadotrophin releasing hormone (GnRH) agonist for severe endometriosis: a case report. Othman NH, et al. **Aust N Z J Obstet Gynaecol** 1996 May; 36(2):216-8

Alopecia and breast disease. Gateley CA, et al. **BMJ** 1997 Feb 15;314(7079):481

Effectiveness of tibolone on hypoestrogenic symptoms induced by goserelin treatment in patients with endometriosis. Taskin O, et al. **Fertil Steril** 1997 Jan; 67(1):40-5

PHARMACOLOGY

Hormone treatment after irradiation stimulates recovery of rat spermatogenesis from surviving spermatogonia. Meistrich ML, et al. **J Androl** 1997 Jan-Feb;18(1):80-7

THERAPEUTIC USE

Pre- and postoperative therapy with GnRH agonist for endometrial resection. A prospective, randomized study. Sørensen SS, et al. **Acta Obstet Gynecol Scand** 1997 Apr; 76(4):340-4

Pulmonary metastases in metastatic prostate cancer: host tissue-tumor cell interactions and response to hormone therapy. Behrakis P, et al. **Anticancer Res** 1997 May-Jun; 17(3A):1517-8

Goserelin depot versus danazol in the treatment of endometriosis the Australian/New Zealand experience. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):55-60

Pregnancy during gonadotrophin-releasing hormone agonist therapy. Uncu G, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):484-5

Removal of fibromyomas by laparoscopic surgery after preoperative GnRH analogue--an alternative to abdominal hysterectomy or myomectomy. Wood C, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):464-8

Add-back therapy in the treatment of endometriosis: the European experience. Edmonds DK. **Br J Obstet Gynaecol** 1996 Oct;103 Suppl 14:10-3

Should add-back therapy for endometriosis be deferred for optimal results? Kiesel L, et al. **Br J Obstet Gynaecol** 1996 Oct;103 Suppl 14:15-7

Add-back therapy in the treatment of endometriosis: the North American experience. Moghissi KS. **Br J Obstet Gynaecol** 1996 Oct;103 Suppl 14:14

The need for add-back with gonadotrophin-releasing hormone agonist therapy. Studd J, et al. **Br J Obstet Gynaecol** 1996 Oct;103 Suppl 14:1-4

Add-back therapy for long-term use in dysfunctional uterine bleeding and uterine fibroids. Thomas EJ. **Br J Obstet Gynaecol** 1996 Oct;103 Suppl 14:18-21

A controlled trial of bicalutamide versus flutamide, each in combination with luteinizing hormone-releasing hormone analogue therapy, in patients with advanced prostate carcinoma. Analysis of time to progression. CASODEX Combination Study Group. Schellhammer PF, et al. **Cancer** 1996 Nov 15;78(10):2164-9

EGF/EGF-R system and benign breast disease during and following the treatment of gynaecological pathologies with an analogue of LH-RH. Di Lieto A, et al. **Clin Exp Obstet Gynecol** 1996;23(4):220-8

A prospective, randomised study to compare goserelin acetate (Zoladex) versus cyproterone acetate (Cyprostat) versus a combination of the two in the treatment of metastatic prostatic carcinoma. Thorpe SC, et al. **Eur Urol** 1996;29(1):47-54

Goserelin acetate (Zoladex) plus endometrial ablation for dysfunctional uterine bleeding: a large randomized, double-blind study. Donnez J, et al. **Fertil Steril** 1997 Jul; 68(1):29-36

Influence of goserelin depot therapy on epidermal growth factor receptor expression in pelvic endometriosis. Di Lieto A, et al. **Gynecol Endocrinol** 1997 Feb;11(1):17-20

An open randomized comparative study of an oral contraceptive containing ethinyl estradiol and cyproterone acetate with and without the GnRH analogue goserelin in the long-term treatment of hirsutism. Vegetti W, et al. **Gynecol Obstet Invest** 1996;41(4):260-8

The place of Zoladex in deferred surgery for uterine fibroids. Zoladex Myoma Study Group. Gerris J, et al. **Horm Res** 1996;45(6):279-84

GnRH agonists: an alternative to surgery? Maheux R. **Hum Reprod** 1996 Nov;11 Suppl 3:43-50

Patient treatment preference in metastatic prostate cancer [editorial] Creagh T. **Ir Med J** 1996 Jan–Feb;89(1):12
Treatment of submucous fibroids, and outcome of assisted conception. Narayan R, et al. **J Am Assoc Gynecol Laparosc** 1994 Aug;1(4 Pt 1):307–11
Phase III trial of androgen suppression using goserelin in unfavorable-prognosis carcinoma of the prostate treated with definitive radiotherapy: report of Radiation Therapy Oncology Group Protocol 85–31. Pilepich MV, et al. **J Clin Oncol** 1997 Mar;15(3):1013–21
GnRH agonists before surgery for uterine leiomyomas. A review [see comments] Crosignani PG, et al. **J Reprod Med** 1996 Jun;41(6):415–21 (38 ref.). Comment in: J Reprod Med 1997 Apr;42(4):253.
Resistance to apoptosis and up regulation of Bcl-2 in benign prostatic hyperplasia after androgen deprivation [see comments] Cardillo M, et al. **J Urol** 1997 Jul;158(1):212–6 . Comment in: J Urol 1997 Jul;158(1):2–3.
Prostate cancer—the therapeutic challenge of locally advanced disease [editorial; comment] Blasko JC, et al. **N Engl J Med** 1997 Jul 31;337(5):340–1. Comment on: N Engl J Med 1997 Jul 31;337(5):295–300.
Improved survival in patients with locally advanced prostate cancer treated with radiotherapy and goserelin [see comments] Bolla M, et al. **N Engl J Med** 1997 Jul 31; 337(5):295–300. Comment in: N Engl J Med 1997 Jul 31;337(5):340–1.
The indications, rationale, and results of neoadjuvant androgen deprivation in the treatment of prostatic cancer: Memorial Sloan-Kettering Cancer Center results. Fair WR, et al. **Urology** 1997 Mar;49(3A Suppl):46–55
Three-month depot of goserelin acetate: clinical efficacy and endocrine profile. Dutch South East Cooperative Urological Group. Fernandez del Moral P, et al. **Urology** 1996 Dec;48(6):894–900
[A comparative study of the effect of Zoladex treatment versus orchiectomy in patients with advanced prostatic cancer] Tsvetkov M, et al. **Khirurgiia (Sofiia)** 1996;49(1):5–8 (Eng. Abstr.) **(Bul)**
[GnRH analogs for treatment of ovarian cancer] Kośmider M. **Ginekol Pol** 1996 Oct;67(10):499–503 (Eng. Abstr.) **(Pol)**
[Zoladex (ICI) in the therapy of prostatic cancer patients] Popko AS, et al. **Urol Nefrol (Mosk)** 1996 Nov-Dec; (6):53–5 (40 ref.) **(Rus)**
[LH-RH agonists as therapeutic alternative in patients with benign prostatic hyperplasia (BPH) and surgical contraindication. Long term follow up] Granados Loarca EA, et al. **Arch Esp Urol** 1996 Nov;49(9):923–7 (Eng. Abstr.) **(Spa)**

GOSSYPIUM see **COTTON**

GOSSYPOL

see related
COTTONSEED OIL

ANALOGS & DERIVATIVES

A model of Plasmodium falciparum lactate dehydrogenase and its implications for the design of improved antimalarials and the enhanced detection of parasitaemia. Sessions RB, et al. **Protein Eng** 1997 Apr;10(4):301–6

PHARMACOLOGY

Characterization of ion interference in gossypol consumption. Achudume AC, et al. **Adv Contracept** 1996 Sep; 12(3):227–32
Chronic ethanol intake may delay the onset of gossypol-induced infertility in the male rat. Akingbemi BT, et al. **Andrologia** 1997 Jul–Aug;29(4):201–7
The effect of feeding whole cottonseed on the fertility of bulls. Cusack PM, et al. **Aust Vet J** 1995 Dec;72(12):463–6
Gossypol induces spermidine/spermine N1-acetyltransferase in canine prostate epithelial cells. Chang WY, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):383–8
Gossypol inhibition of mitosis, cyclin D1 and Rb protein in human mammary cancer cells and cyclin-D1 transfected human fibrosarcoma cells. Ligueros M, et al. **Br J Cancer** 1997;76(1):21–8
Inhibition of human prostate cancer cells growth by gossypol is associated with stimulation of transforming growth factor-beta. Shidaifat F, et al. **Cancer Lett** 1996 Oct 1; 107(1):37–44
Reversible changes in the content of cellular and microtubular tubulin in spermatogenic cells after gossypol treatment. Teng CS. **Contraception** 1997 Mar;55(3):183–8
Reversible changes in the content of cellular and microtubular tubulin in spermatogenic cells after gossypol treatment. Teng CS. **Contraception** 1997 Jan;55(1):41–6
Contraceptive gossypol blocks cell-to-cell communication in human and rat cells. Hervé JC, et al. **Eur J Pharmacol** 1996 Oct 17;313(3):243–55
Effect of whole cottonseed, gossypol, and ruminally protected lysine supplementation on milk yield and composition. Blauwiekel R, et al. **J Dairy Sci** 1997 Jul; 80(7):1358–65
Effect of gossypol on cultured TM3 Leydig and TM4 Sertoli cells: 31P and 23Na NMR study. Hansen LL, et al. **NMR Biomed** 1996 Apr;9(2):72–8
The inhibitory effects of gossypol on human sperm motility characteristics: possible modes of reversibility of those effects. Zavos PM, et al. **Tohoku J Exp Med** 1996 Jul; 179(3):167–75
Effect of gossypol on hepatic and serum gamma-glutamyltransferase activity in rats. Deoras DP, et al. **Vet Res Commun** 1997 Jul;21(5):317–23
[The antifertility effect of gossypol plus testosterone and estrogen] Ye WS, et al. **Yao Hsueh Hsueh Pao** 1996; 31(4):313–5 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

Gossypol arrests human benign prostatic hyperplastic cell growth at G0/G1 phase of the cell cycle. Shidaifat F, et al. **Anticancer Res** 1997 Mar-Apr;17(2A):1003–9
Determination of the antiamebic effect of a metronidazole/gossypol blend. Cruz-Vega DE, et al. **Arch Med Res** 1997;28 Spec No:300–1
Gossypol anti-amebic effect in vivo. González-Garza MT, et al. **Arch Med Res** 1997;28 Spec No:298–9
Estrogen and progestin cytosol receptor concentrations in patients with endometriosis and their changes after gossypol therapy. Zhang Y, et al. **Chin Med J (Engl)** 1996 Oct;109(10):814–6
Experimentally-induced prostatic hyperplasia in young beagles: a model to evaluate the chemotherapeutic effects of gossypol. Chang WY, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun;92(3):341–60

TOXICITY

Inhibition of human class 3 aldehyde dehydrogenase, and sensitization of tumor cells that express significant amounts of this enzyme to oxazaphosphorines, by the naturally occurring compound gossypol. Rekha GK, et al. **Adv Exp Med Biol** 1997;414:133–46
Orally administered gossypol has no effect on eight hamster erythrocytic enzymes. González-Garza MT, et al. **Contraception** 1995 Dec;52(6):377–9
Gossypol-induced apoptotic DNA fragmentation correlates with inhibited protein kinase C activity in spermatocytes. Teng CS. **Contraception** 1995 Dec;52(6):389–95
Alteration of oxytocin-induced calcium oscillations in clone 9 cells by toxin exposure. Barhoumi R, et al. **Fundam Appl Toxicol** 1996 Oct;33(2):220–8
Infection with Trypanosoma brucei potentiates the antifertility effect of gossypol, especially in the protein-malnourished male rat. Akingbemi BT, et al. **Int J Androl** 1996 Jun;19(3):179–89
Ethanol intake may modify gossypol toxicosis in the rat. Akingbemi BT, et al. **J Appl Toxicol** 1996 Sep-Oct; 16(5):375–80
Gossypol toxicosis in the rat associated with protein malnutrition and experimental infection with Trypanosoma brucei. Akingbemi BT, et al. **J Comp Pathol** 1996 Jul; 115(1):13–22
The influence of protein malnutrition on the antifertility action of gossypol in the Trypanosoma brucei-infected rat: some ultrastructural observations from the testis. Akingbemi BT, et al. **Reprod Toxicol** 1997 Jul-Aug; 11(4):533–8

GOSSYPOSE see **RAFFINOSE**

GOUT

see related
GOUT SUPPRESSANTS

Uric acid stones. Asplin JR. **Semin Nephrol** 1996 Sep; 16(5):412–24 (86 ref.)
[Abnormalities in nucleic acid metabolism and gout] Kamatani N. **Nippon Naika Gakkai Zasshi** 1997 Mar 10; 86(3):374–9 (8 ref.) **(Jpn)**
[Characteristic features of gouty patients] Nakamura T, et al. **Nippon Rinsho** 1996 Dec;54(12):3248–55 (25 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

The perils of nontreatment of hyperuricemia. Hoffman GS. **Cleve Clin J Med** 1997 Apr;64(4):215

CHEMICALLY INDUCED

Omeprazole, other antiulcer drugs and newly diagnosed gout [see comments] Meier CR, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):175–8. Comment in: Br J Clin Pharmacol 1997 Aug;44(2):109–10.
Acute gout in a patient taking pefloxacin—a case report. Kundu AK. **J Indian Med Assoc** 1996 Nov;94(11):427

COMPLICATIONS

Down syndrome with coexistent gout: report of six patients and possible reasons for the scarcity of descriptions of this association [letter] Kamatani N, et al. **Ann Rheum Dis** 1996 Sep;55(9):649–50
Gout and risk for subsequent coronary heart disease. The Meharry-Hopkins Study. Gelber AC, et al. **Arch Intern Med** 1997 Jul 14;157(13):1436–40
Intraosseous gouty invasion of the talus. Raikin S, et al. **Foot Ankle Int** 1997 Jul;18(7):439–42 (18 ref.)
Gout and hypothyroidism. Gregoline PE, et al. **J Am Podiatr Med Assoc** 1997 Aug;87(8):394–6
Cubital tunnel syndrome caused by tophaceous gout. Nakamichi K, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):559–60
Prepatellar bursitis: a unique presentation of tophaceous gout in an normouricemic patient. Dawn B, et al. **J Rheumatol** 1997 May;24(5):976–8
[Gouty encephalopathy: myth or reality?] Alla P, et al. **Rev Med Interne** 1997;18(6):474–6 (Eng. Abstr.) **(Fre)**
[Uric acid and tubulointerstitial kidney diseases] Wrenger E, et al. **Internist (Berl)** 1996 Nov;37(11):1137–42 (51 ref.) **(Ger)**
[Hyperuricemia and the kidney] Ichida K, et al. **Nippon Rinsho** 1996 Dec;54(12):3277–82 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Gout and atherosclerosis] Tsutsumi Z, et al. **Nippon Rinsho** 1996 Dec;54(12):3297–302 (37 ref.) (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Tophaceous gout of the lumbar spine mimicking an epidural abscess: MR features. Bonaldi VM, et al. **AJNR Am J Neuroradiol** 1996 Nov-Dec;17(10):1949–52
Unusual localisation of tophaceous gout. A report of four cases and review of the literature. Reber P, et al. **Arch Orthop Trauma Surg** 1996;115(5):297–9
Case report: an unusual presentation of gout. Fleet MS, et al. **Clin Radiol** 1997 Feb;52(2):156–8
Gouty tophus presenting as a soft-tissue mass diagnosed by fine-needle aspiration: a case report. Liu K, et al. **Diagn Cytopathol** 1996 Sep;15(3):246–9
Demonstration of urate in formalin fixative as support for the histopathological diagnosis of gout [letter] Eulderink F, et al. **Histopathology** 1997 Feb;30(2):195
Case in point. Gout. Wages DS, et al. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):19
Magnetic resonance imaging of the foot. Rheumatologic disorders mimicking osteomyelitis [published erratum appears in J Am Podiatr Med Assoc 1996 Jul;86(7):306] Jelinek J, et al. **J Am Podiatr Med Assoc** 1996 May; 86(5):228–31
Clinical image. Tophaceous gout of the lumbar spine: MR findings. Miller LJ, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):1004–5 (7 ref.)
Intraosseous gout of the foot: an unusual case report. Surprenant MS, et al. **J Foot Ankle Surg** 1996 May-Jun; 35(3):237–43
Periosteal gouty tophi of the anterior mid tibia. Shuhaibar H, et al. **Skeletal Radiol** 1997 Apr;26(4):260–2
[MR imaging in gout] Seidl G, et al. **Radiologe** 1996 Aug; 36(8):632–6 (Eng. Abstr.) **(Ger)**
[Gout and hyperuricemia] Nakamura T. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1520–7 (28 ref.) **(Jpn)**
[A case of a combined course of gout and rheumatism] Chukabaev ET, et al. **Ter Arkh** 1996;68(9):86–8 (13 ref.) **(Rus)**

DRUG THERAPY

Treatment of gout following cardiac transplantation [letter] Byrne PA, et al. **Br J Rheumatol** 1996 Dec;35(12):1329
Thiazide diuretics and the initiation of anti-gout therapy. Gurwitz JH, et al. **J Clin Epidemiol** 1997 Aug;50(8):953–9
A comprehensive investigation of inpatient intravenous colchicine use shows more education is needed. Evans TI, et al. **J Rheumatol** 1996 Jan;23(1):143–8
An oil rig worker presenting with acute gout. Hynes D, et al. **Practitioner** 1997 May;241(1574):239–41, 243–5
Hypothyroidism on Colchimax revealed by restless legs syndrome [letter] Bon E, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):304
Diversity of opinions on the management of gout in France. A survey of 750 rheumatologists. Rozenberg S, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):255–61
[Chronic tophaceous gout] Toker R, et al. **Harefuah** 1997 Jun 1;132(11):759–61, 823 (Eng. Abstr.) **(Heb)**

EPIDEMIOLOGY

Gout is on the increase in New Zealand. Klemp P, et al. **Ann Rheum Dis** 1997 Jan;56(1):22–6
High prevalence of hyperuricaemia among Kuwaitis possibly without a proportionate increase in gout [letter] Malaviya AN, et al. **Br J Rheumatol** 1997 Mar;36(3):405–6
High prevalence of gout and related risk factors in Taiwan's Aborigines. Chang SJ, et al. **J Rheumatol** 1997 Jul; 24(7):1364–9
Arthritis in Australia: an emerging public health problem [letter] Finocchiaro C, et al. **Med J Aust** 1996 Sep 16; 165(6):352
[The trend of proportion among inpatients with gout in 21 hospitals during the past 15 years] Yang XY, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Feb; 17(1):10–2 (Eng. Abstr.) **(Chi)**
[Epidemiological, clinical and evolutive aspects of gout in the internal medicine department at Ouagadougou (Burkina Faso)] Drabo PY. **Bull Soc Pathol Exot** 1996;89(3):196–9 (Eng. Abstr.) **(Fre)**

ETIOLOGY

Hyperuricemia among Kuwaitis [letter] al Ali N, et al. **Arch Intern Med** 1996 Nov 11;156(20):2381, 2386
Lead and the kidney: nephropathy, hypertension, and gout.

Perazella MA. **Conn Med** 1996 Sep;60(9):521–6 (30 ref.)
Altered arachidonic acid metabolism in urate crystal induced inflammation. Margalit A, et al. **Inflammation** 1997 Apr; 21(2):205–22
Female premenopausal tophaceous gout induced by long-term diuretic abuse. Hayem G, et al. **J Rheumatol** 1996 Dec;23(12):2166–7
Gout secondary to pyrazinamide and ethambutol. Rao TP, et al. **Va Med Q** 1996 Fall;123(4):271
[PRPP synthetase superactivity] Fujimori S. **Nippon Rinsho** 1996 Dec;54(12):3309–14 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Alcohol ingestion and hyperuricemia] Yamanaka H. **Nippon Rinsho** 1996 Dec;54(12):3369–73 (9 ref.) (Eng. Abstr.) **(Jpn)**
[Metabolism of purine nucleotides and the production of uric acid] Yamaoka T, et al. **Nippon Rinsho** 1996 Dec; 54(12):3188–94 (11 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

Renal handling of urate in a patient with familial juvenile gouty nephropathy. Hisatome I, et al. **Intern Med** 1996 Jul;35(7):564–8

HISTORY

Gout in women: a historical perspective. Benedek TG. **Bull Hist Med** 1997 Spring;71(1):1–22
Gout: the last 50 years. Scott JT. **J R Soc Med** 1996 Nov; 89(11):634–7
[The illness and cause of death of Palatine Joseph and of his first wife (see comments)] Józsa L. **Orv Hetil** 1996 Jul 14;137(28):1542–3. Comment in: Orv Hetil 1997 Mar 30;138(13):826. **(Hun)**

METABOLISM

Endothelial activation in monosodium urate monohydrate crystal-induced inflammation: in vitro and in vivo studies on the roles of tumor necrosis factor alpha and interleukin-1. Chapman PT, et al. **Arthritis Rheum** 1997 May;40(5):955–65
Altered arachidonic acid metabolism in urate crystal induced inflammation. Margalit A, et al. **Inflammation** 1997 Apr; 21(2):205–22
Renal handling of urate in a patient with familial juvenile gouty nephropathy. Hisatome I, et al. **Intern Med** 1996 Jul;35(7):564–8
Purine metabolism in patients with gout: the role of lead. Miranda-Carús E, et al. **Nephron** 1997;75(3):327–35
[Dynamics of uric acid metabolism in hyperuricemia] Nakamura T, et al. **Nippon Rinsho** 1996 Dec;54(12):3230–6 (18 ref.) (Eng. Abstr.) **(Jpn)**

NURSING

Clinical snapshot: gout. Bynum DT. **Am J Nurs** 1997 Jul; 97(7):36–7

PATHOLOGY

MR imaging of tophaceous gout. Yu JS, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):523–7
Intraosseous gouty invasion of the talus. Raikin S, et al. **Foot Ankle Int** 1997 Jul;18(7):439–42 (18 ref.)
Magnetic resonance imaging of tophaceous gout in the hands and wrists. Popp JD, et al. **Semin Arthritis Rheum** 1996 Feb;25(4):282–9
[Chronic tophaceous gout] Toker R, et al. **Harefuah** 1997 Jun 1;132(11):759–61, 823 (Eng. Abstr.) **(Heb)**

PHYSIOPATHOLOGY

[Morphometric parameters of the bulbar conjunctiva vessels in patients with gout] Bakhritdinova FA. **Vestn Oftalmol** 1996 Jul-Aug;112(3):30–2 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Enthesopathy and tendinopathy in gout: computed tomographic assessment. Gerster JC, et al. **Ann Rheum Dis** 1996 Dec;55(12):921–3
Radiological manifestations of primary gout. Idris M, et al. **JPMA J Pak Med Assoc** 1996 Oct;46(10):218–9
Radiologic manifestations of the crystal-related arthropathies. Uri DS, et al. **Semin Roentgenol** 1996 Jul; 31(3):229–38 (52 ref.)

THERAPY

Gout and hyperuricemia. Simkin PA. **Curr Opin Rheumatol** 1997 May;9(3):268–73 (64 ref.)
Gout and other crystal arthropathies. McGill NW. **Med J Aust** 1997 Jan 6;166(1):33–8 (15 ref.)
Managing gout in practice. Golding D. **Practitioner** 1996 Aug;240(1565):486–9

VETERINARY

Concurrent gout and suspected hypovitaminosis A in crocodile hatchlings. Ariel E, et al. **Aust Vet J** 1997 Apr; 75(4):247–9
Tyrannosaurs suffered from gout [letter] Rothschild BM, et al. **Nature** 1997 May 22;387(6631):357

GOUT SUPPRESSANTS

ADMINISTRATION & DOSAGE

Difference of the plasma concentration and urinary excretion of allopurinol, oxypurinol, and purine bases between dietary intake and fasting. Yamamoto T, et al. **Int J Clin Pharmacol Ther** 1996 Apr;34(4):157–62
Failure of colchicine to reduce inhaled triamcinolone dose in patients with asthma. Newman KB, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):176–8
Acute myopathy induced by colchicine in a cyclosporine-treated renal transplant recipient—a case report and review of the literature. Lee BI, et al. **J Korean Med Sci** 1997 Apr;12(2):160–1
[How to select and use urate lowering agents for hyperuricemia] Yamanaka H. **Nippon Rinsho** 1996 Dec; 54(12):3261–5 (12 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Azathioprine and allopurinol: the price of an avoidable drug interaction. Kennedy DT, et al. **Ann Pharmacother** 1996 Sep;30(9):951–4
Perforating foot ulceration with allopurinol therapy. Bouloc A, et al. **Clin Exp Dermatol** 1996 Sep;21(5):351–2
Fixed drug eruption due to colchicine. Mochida K, et al. **Dermatology** 1996;192(1):61
Hypothyroidism on Colchimax revealed by restless legs syndrome [letter] Bon E, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):304
Allopurinol hypersensitivity syndrome. Carpenter C. **Tenn Med** 1997 Apr;90(4):151–2

CHEMISTRY

Encapsulation, stability and in-vitro release characteristics of liposomal formulations of colchicine. Kulkarni SB, et al. **J Pharm Pharmacol** 1997 May;49(5):491–5

METABOLISM

Difference of the plasma concentration and urinary excretion of allopurinol, oxypurinol, and purine bases between dietary intake and fasting. Yamamoto T, et al. **Int J Clin Pharmacol Ther** 1996 Apr;34(4):157–62

PHARMACOKINETICS

Colchicine biotransformation by human liver microsomes. Identification of CYP3A4 as the major isoform responsible for colchicine demethylation. Tateishi T, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):111–6
Oral absorption characteristics and pharmacokinetics of colchicine in healthy volunteers after single and multiple doses. Ferron GM, et al. **J Clin Pharmacol** 1996 Oct; 36(10):874–83

PHARMACOLOGY

Dexamethasone and colchicine reduce inflammation and delayed oedema following experimental brain contusion. Holmin S, et al. **Acta Neurochir (Wien)** 1996;138(4):418–24
Encapsulation, stability and in-vitro release characteristics of liposomal formulations of colchicine. Kulkarni SB, et al. **J Pharm Pharmacol** 1997 May;49(5):491–5
Preferential sensitivity of acrocentric chromosomes to the aneugenic effect of colchicine. Caria H, et al. **Teratog Carcinog Mutagen** 1996;16(5):243–52
Suppression of Kupffer cell function prevents cadmium induced hepatocellular necrosis in the male Sprague-Dawley rat. Sauer JM, et al. **Toxicology** 1997 Aug 15;121(2):155–64

POISONING

Markedly altered colchicine kinetics in a fatal intoxication: examination of contributing factors. Borron SW, et al. **Hum Exp Toxicol** 1996 Nov;15(11):885–90
Granulocyte-colony stimulating factor in the treatment of colchicine poisoning. Critchley JA, et al. **Hum Exp Toxicol** 1997 Apr;16(4):229–32 (19 ref.)
Colchicine poisoning: report of a fatal case and presentation of an HPLC procedure for body fluid and tissue analyses. Kintz P, et al. **J Anal Toxicol** 1997 Jan-Feb;21(1):70–2
Antidotal efficacy of glutamate and aspartate for colchicine toxicity. Wang RY, et al. **Vet Hum Toxicol** 1997 Aug; 39(4):207–10
[Colchicine poisoning and paralytic ileus. (letter; comment) (see comments)] Rosal J, et al. **Med Clin (Barc)** 1996 Jan 20;106(2):79. Comment on: Med Clin (Barc) 1994 Oct 8;103(11):438. Comment in: Med Clin (Barc) 1996 Nov 16;107(17):678–9. **(Spa)**

THERAPEUTIC USE

A prospective randomized trial of colchicine in prevention of liver cirrhosis in chronic hepatitis B patients. Lin DY, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):961–6
Penicillin in the treatment of Behçet's disease: comment on the article by Calgüneri et al [letter] Demiroğlu H, et al. **Arthritis Rheum** 1997 Sep;40(9):1728–30
Failure of colchicine to reduce inhaled triamcinolone dose in patients with asthma. Newman KB, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):176–8
Diversity of opinions on the management of gout in France. A survey of 750 rheumatologists. Rozenberg S, et al. **Rev Rhum Engl Ed** 1996 Apr;63(4):255–61
The use of methotrexate, colchicine, and other immunomodulatory drugs in the treatment of primary biliary cirrhosis. Kaplan MM. **Semin Liver Dis** 1997 May; 17(2):129–36 (57 ref.)
[Use of colchicine in periodic disease (letter; comment)] Bouchon JP. **Ann Med Interne (Paris)** 1996;147(5):373. Comment on: Ann Med Interne (Paris) 1996;147(3):185–211. **(Fre)**
[Chronic tophaceous gout] Toker R, et al. **Harefuah** 1997 Jun 1;132(11):759–61, 823 (Eng. Abstr.) **(Heb)**

TOXICITY

Role of bile salts in colchicine-induced hepatotoxicity. Implications for hepatocellular integrity and function. Crocenzi FA, et al. **Toxicology** 1997 Aug 15;121(2):127–42
Colchicine-induced elevation of tissue metallothionein contents is mediated by inflammation-independent serum factor. Itoh N, et al. **Toxicology** 1997 Jan 15;116(1–3):201–9

GOUTY ARTHRITIS see **ARTHRITIS, GOUTY**

GOVERNING BOARD

Ownership and governance of university teaching hospitals: let form follow function. Schimpff SC, et al. **Acad Med** 1997 Jul;72(7):576–88
A guide to collective investment funds. Way R. **Br J Hosp Med** 1996 Nov 20–Dec 10;56(10):550–1
The effects of CEO–board relations on hospital performance. Molinari C, et al. **Health Care Manage Rev** 1997 Summer; 22(3):7–15
The "new" Board of Medical Examiners. Earle KB. **N J Med** 1996 Dec;93(12):61–2
State board warns: don't refuse to pay cat fund. Bannon CJ. **Pa Med** 1996 Jan;99(1):25

LEGISLATION & JURISPRUDENCE

Rules & regs. Safety in numbers. Hudson T. **Hosp Health Netw** 1996 Nov 20;70(22):38

ORGANIZATION & ADMINISTRATION

Devolving authority for health care in Canada's provinces: 1. An introduction to the issues. Lomas J, et al. **Can Med Assoc J** 1997 Feb 1;156(3):371–7
Governance of integrated delivery systems/networks: a stakeholder approach. Savage GT, et al. **Health Care Manage Rev** 1997 Winter;22(1):7–20 (65 ref.)
Governance. Bored meeting remedy. Hudson T. **Hosp Health Netw** 1997 May 20;71(10):66, 68
Bye-bye big boards. Bogged down by too many trustees, health systems streamline to set clearer goals and speed up decisions. Hudson T. **Hosp Health Netw** 1997 Jun 5; 71(11):32–4
Insider representation on the governing boards of nonprofit hospitals: trends and implications for charitable care. Young GJ. **Inquiry** 1996–97 Winter;33(4):352–62

STANDARDS

Better boards and beyond. Holland TP, et al. **Hosp Health Netw** 1997 Apr 5;71(7):80, 82, 84

STATISTICS & NUMERICAL DATA

Devolving authority for health care in Canada's provinces: 2. Backgrounds, resources and activities of board members. Lomas J, et al. **Can Med Assoc J** 1997 Feb 15;156(4):513–20

GOVERNMENT

Comparing a public and private sector NFP program: implications for NFP expansion. Girotto S, et al. **Adv Contracept** 1997 Jun-Sep;13(2–3):255–60
Asthma among the famous. Martin Van Buren (1792–1862), eighth president of the United States. Cohen SG. **Allergy Asthma Proc** 1996 Nov-Dec;17(6):370–2
Asthma among the famous. Daniel Webster (1782–1852), American lawyer, U.S. Senator, and statesman. Cohen SG. **Allergy Asthma Proc** 1996 Nov-Dec;17(6):373–6
Asthma among the famous. Benjamin Disraeli (1804–1881), British statesman and author. Cohen SG. **Allergy Asthma Proc** 1997 Jan-Feb;18(1):43–9
Inaugural commentary [editorial] Joel LA. **Am J Nurs** 1997 Mar;97(3):7
Abraham Lincoln, psychotherapist to the nation: the use of metaphors. Leetz KL. **Am J Psychother** 1997 Winter; 51(1):45–53
Antigovernment sentiment and support for universal access to care: are they incompatible? Goldsteen RL, et al. **Am J Public Health** 1997 Jan;87(1):25–8
The proliferation and risks of government DNA databases. Sankar P. **Am J Public Health** 1997 Mar;87(3):336–7
Absenteeism in the workforce, Klang Valley, Malaysia—preliminary report. Indran SK, et al. **Asia Pac J Public Health** 1995;8(2):109–13
Britain's first minister of public health. National public health research and development programme is needed [letter; comment] Crown J, et al. **BMJ** 1997 Jul 5;315(7099):54–5 . Comment on: BMJ 1997 May 24;314(7093):1498–9.
Britain's first minister of public health. White paper on public

health is needed to give coherent approach across all sectors [letter; comment] Griffiths S. **BMJ** 1997 Jul 5; 315(7099):55. Comment on: BMJ 1997 May 24;314(7093):1498–9.

Do socioeconomic differences in mortality persist after retirement? 25 year follow up of civil servants from the first Whitehall study. [see comments] Marmot MG, et al. **BMJ** 1996 Nov 9;313(7066):1177–80. Comment in: BMJ 1997 Apr 12;314(7087):1130.

At last, a public health minister [editorial] [see comments] Olsen N. **BMJ** 1997 May 24;314(7093):1498–9. Comment in: BMJ 1997 Jul 5;315(7099):54. Comment in: BMJ 1997 Jul 5;315(7099):54–5. Comment in: BMJ 1997 Jul 5;315(7099):55.

Britain's first minister of public health. National centre for public health is needed [letter; comment] Powles J, et al. **BMJ** 1997 Jul 5;315(7099):54. Comment on: BMJ 1997 May 24;314(7093):1498–9.

United States bans smoking on federal property [news] Rutter T. **BMJ** 1997 Aug 16;315(7105):384

The role of government in combatting urban health problems. Giuliani R. **Bull N Y Acad Med** 1996 Summer;73(1):60–9

Health care among forgotten issues in forgettable federal election. Gray C. **CMAJ** 1997 Jul 1;157(1):57–8

The federal and private sector roles in the development of minimum data sets and core health data elements. McCormick K, et al. **Comput Nurs** 1997 Mar–Apr;15(2 Suppl):S23–32

Perspectives on alternatives to the eye irritation test: industry, public interest, government. Bruner LH, et al. **Food Chem Toxicol** 1997 Jan;35(1):165–6

Making sausage: The Ninth Circuit's opinion. Schneider CE. **Hastings Cent Rep** 1997 Jan–Feb;27(1):27–8

The federal role in the health information infrastructure: a debate of the pros and cons of government intervention. Shortliffe EH, et al. **J Am Med Inform Assoc** 1996 Jul–Aug; 3(4):249–57

The role of health in New York State under the governorship of Hugh Carey. Cahill KM. **J Community Health** 1996 Feb; 21(1):1–9

New federalism and intergovernmental fiscal relationships: the implications for health policy [see comments] Anton TJ. **J Health Polit Policy Law** 1997 Jun;22(3):691–720 (38 ref.). Comment in: J Health Polit Policy Law 1997 Jun;22(3):879–96. Comment in: J Health Polit Policy Law 1997 Jun;22(3):897–906.

Achievement after more than 20 years of healthy professionals' work against government sanctioned torture. Genefke I. **J Indian Med Assoc** 1996 Jul;94(7):262–5

Lt Governor Stephen L. Henry, MD. Physician, politician, persona. Tharp S. **J Ky Med Assoc** 1997 Jul;95(7):280–6

The journal 100 & 150 years ago. The bizarre diseases and deaths of American Presidents. Part I. Colon GA. **J La State Med Soc** 1997 May;149(5):147–50

Congressional actions affect cancer research [news] Bennett S. **J Natl Cancer Inst** 1996 Oct 16;88(20):1432–3

Washington State reorganization: more of the story. Gebbie KM. **J Public Health Policy** 1997;18(2):188–218 (12 ref.)

Late but warranted pardons. Sharp D. **Lancet** 1997 Jun 7; 349(9066):1640

Early Maryland physicians and the first presidential election. Chase HV. **Md Med J** 1997 Apr;46(4):198–200

Government, not war, is our worst disease [letter] Papermaster T. **Minn Med** 1997 Apr;80(4):6–7

The hazards of government data [editorial] Anon. **Nature** 1996 Oct 10;383(6600):463

BSE meeting reflects growing distrust of expert panels [news; comment] Butler D. **Nature** 1996 Nov 21;384(6606):201. Comment on: Nature 1996 Aug 29;382(6594):779–84.

AIDS drug row embroils health minister [news] Cherry M. **Nature** 1997 Mar 6;386(6620):6

Republican senators promote a doubling of funds for research [news] [see comments] Reichhardt T. **Nature** 1997 Jan 30; 385(6615):375. Comment in: Nature 1997 Mar 13;386(6621):114.

Sandra Thurman named as new 'AIDS Czar' [news] Wadman M. **Nature** 1997 Apr 10;386(6625):533

Developing industrial–governmental–academic partnerships to address micronutrient malnutrition. Darnton-Hill I. **Nutr Rev** 1997 Mar;55(3):76–81 (24 ref.)

Healthy People 2000: meshing national and local health objectives. Sondik E. **Public Health Rep** 1996 Nov–Dec; 111(6):518–20

Privatized cancer journal triggers Senate reaction [news] Lawler A. **Science** 1997 Jun 6;276(5318):1492

Gene tests get tested [news] Marshall E. **Science** 1997 Feb 7;275(5301):782

[The illness and cause of death of Palatine Joseph and of his first wife (see comments)] Józsa L. **Orv Hetil** 1996 Jul 14;137(28):1542–3. Comment in: Orv Hetil 1997 Mar 30;138(13):826. **(Hun)**

[The state and the commercialization of public health institutions] Roĭtman MP. **Probl Sotsialnoi Gig Istor Med** 1995 Jan–Feb;(1):21–4 **(Rus)**

GOVERNMENT AGENCIES

Main–streaming NFP into the Department of Health of the Philippines: opportunities and challenges. Infantado RB. **Adv Contracept** 1997 Jun–Sep;13(2–3):249–54 (2 ref.)

NBCOT and state regulatory agencies: allies or adversaries? [see comments] Low JF. **Am J Occup Ther** 1997 Jan; 51(1):74–5. Comment in: Am J Occup Ther 1997 May;51(5):396–7.

The health and housing fellows program: recruiting returned Peace Corps volunteers. Howland J, et al. **Am J Public Health** 1997 Mar;87(3):464–5

European drug agency: not yet ready for oncology [news] **Ann Oncol** 1996 Jan;7(1):2–3

Environmental specimen banking in Germany––present state and further challenges. Emons H, et al. **Chemosphere** 1997 May;34(9–10):1875–88 (17 ref.)

Mediawatch. Mad minister disease? Dixon B. **Curr Biol** 1996 Mar 1;6(3):221

'Health law 2000': the legal system and the changing health care market. Sage WM. **Health Aff (Millwood)** 1996 Fall; 15(3):9–27

The Center for Environmental Pathology and Toxicology at the Armed Forces Institute of Pathology [letter; comment] Mullick FG. **Hum Pathol** 1997 Jun;28(6):752–3 . Comment on: Hum Pathol 1996 Oct;27(10):1003–4.

The National Information Infrastructure and health care: an overview of key agencies. Keramidas SL. **J Am Coll Dent** 1995 Winter;62(4):36–8

Arkansas State Spinal Cord Commission. Brown PS. **J Ark Med Soc** 1994 Aug;91(3):122–5

Drug Enforcement Administration (DEA) chemists erred in calculating quantity of methadone that could be synthesized from precursor chemicals [letter] Zedeck MS. **J Forensic Sci** 1997 Mar;42(2):349–50

DOE commercializes Idaho hot–cell facility [news] Kotz D. **J Nucl Med** 1996 Nov;37(11):21N–24N

Congress puts pressure on NRC [news] Nichols D. **J Nucl Med** 1996 Nov;37(11):44N

The federal role in health technology assessment. Holohan TV. **Lancet** 1996 Oct 12;348(9033):1006–7

'No' to embryos, 'yes' to sperm [letter] Quintavalle J. **Lancet** 1996 Dec 21–28;348(9043):1739

The effect of threshold amounts for reporting malpractice payments to the National Practitioner Data Bank: analysis using the closed claims data base of the Office of the Assistant Secretary of Defense (Health Affairs). Metter EJ, et al. **Mil Med** 1997 Apr;162(4):257–61

Government expenditure on health [letter; comment] Poutasi KO. **N Z Med J** 1997 Feb 28;110(1038):62. Comment on: N Z Med J 1996 Mar 22;109(1018):106. Comment on: N Z Med J 1997 Feb 14;110(1037):42.

Gene therapy: the US FTC explains it all to you [editorial] [see comments] **Nat Biotechnol** 1997 Feb;15(2):109. Comment in: Nat Biotechnol 1997 Apr;15(4):299.

Canada calls in police to investigate data loss in HIV blood scandal [news] **Nature** 1997 Feb 13;385(6617):572

Italy needs its an NIH of its own [letter] Benagiano G. **Nature** 1997 Sep 18;389(6648):224

BSE researchers bemoan 'ministry secrecy' [news] Butler D. **Nature** 1996 Oct 10;383(6600):467–8

The problem with MAFF [letter] Coles GC. **Nature** 1996 Nov 7;384(6604):17

California drops plan to destroy records [news] Lehrman S. **Nature** 1996 Oct 24;383(6602):657

California agency charged with delaying toxin reports [news] Lehrman S. **Nature** 1997 Mar 13;386(6621):102

Energy labs link up genome efforts [news] Macilwain C. **Nature** 1996 Oct 31;383(6603):748

Health scientists strike over cuts at Argentinian labs [news] Masood E. **Nature** 1997 Jan 30;385(6615):376

European centres for disease control [letter] Tibayrenc M. **Nature** 1997 Oct 2;389(6650):433

Regulatory alphabet soup. Snyder JW, et al. **Occup Med** 1996 Jan–Mar;11(1):153–72

Drug testing programs in government agencies and private workplaces. The legal challenge continues. Snyder JW, et al. **Occup Med** 1996 Jan–Mar;11(1):87–100 (52 ref.)

Public–private interaction in pharmaceutical research. Cockburn I, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12725–30

Evaluating the federal role in financing health–related research. Garber AM, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12717–24

Flows of knowledge from universities and federal laboratories: modeling the flow of patent citations over time and across institutional and geographic boundaries. Jaffe AB, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12671–7

A procedure for assessing a contract testing facility: one sponsor's perspective. Twitty MM, et al. **Qual Assur** 1997 Jan–Mar;5(1):61–8 (4 ref.)

Too radical for NIH? Try DARPA [news] Marshall E. **Science** 1997 Feb 7;275(5301):744–6

Arsenic poisoning in West Bengal [letter] Subramanian KS. **Science** 1996 Nov 22;274(5291):1287–8

Defusing the poor man's nuke. BeSaw L. **Tex Med** 1997 Jun; 93(6):49–51

[Role of advisory boards attached to agencies: the example of the French Marketing Authorization Committee] Caulin C. **Bull Acad Natl Med** 1997 May;181(5):835–40 (Eng. Abstr.) **(Fre)**

[For a better answer to expectations in the field of organ transplantation: The French Graft Establishment] Houssin D. **Bull Acad Natl Med** 1997 May;181(5):863–70 (Eng. Abstr.) **(Fre)**

[Report of the activity of ANDEM and outlook] Matillon Y. **Bull Acad Natl Med** 1997 May;181(5):841–52 (Eng. Abstr.) **(Fre)**

[The role of agencies in the development of health policy] Tabuteau DR. **Bull Acad Natl Med** 1997 May; 181(5):819–31; discussion 832–3 (Eng. Abstr.) **(Fre)**

[The Human Menopausal Gonadotrophin Reference Standard (Control 961) of the National Institute of Health Sciences] Ema M, et al. **Eisei Shikenjo Hokoku** 1996; (114):138–40 (Eng. Abstr.) **(Jpn)**

[Studies on "Fast Green FCF Standard" for the dye standard on the National Institute of Health Sciences] Ishimitsu S, et al. **Eisei Shikenjo Hokoku** 1996;(114):136–7 (Eng. Abstr.) **(Jpn)**

[The Testosterone Propionate Reference Standard (Control 881) of the National Institute of Health Sciences] Ishimitsu S, et al. **Eisei Shikenjo Hokoku** 1994;(112):196–8 (Eng. Abstr.) **(Jpn)**

[The Dexamethasone Reference Standard (Control 931) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):167–9 (Eng. Abstr.) **(Jpn)**

[The Cyanocobalamin Reference Standard (Control 931) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):170–4 (Eng. Abstr.) **(Jpn)**

[The Progesterone Reference Standard (Control 931) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):175–8 (Eng. Abstr.) **(Jpn)**

[Estradiol Reference Standard (Control 931) of National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):179–82 (Eng. Abstr.) **(Jpn)**

[The Ascorbic Acid Reference Standard (Control 931) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):183–4 (Eng. Abstr.) **(Jpn)**

[The Cyclandelate Reference Standard (Control 931) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):185–7 (Eng. Abstr.) **(Jpn)**

[The Thiamine Hydrochloride Reference Standard (Control 931) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1994;(112):192–5 (Eng. Abstr.) **(Jpn)**

[Digitoxin Reference Standard (Control 951) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):113–5 (Eng. Abstr.) **(Jpn)**

[Betamethasone Reference Standard (Control 951) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):116–8 (Eng. Abstr.) **(Jpn)**

[Tocopherol Acetate Reference Standard (Control 941) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):119–21 (Eng. Abstr.) **(Jpn)**

[Cyanocobalamin Reference Standard (Control 951) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):122–4 (Eng. Abstr.) **(Jpn)**

[dl–Camphor Reference Standard (Control 951) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):125–7 (Eng. Abstr.) **(Jpn)**

[Lysozyme Reference Standard (Control 951) of the National Institute of Health Sciences] Kitajima A, et al. **Eisei Shikenjo Hokoku** 1996;(114):128–9 (Eng. Abstr.) **(Jpn)**

[NIHS information and computing infrastructure (NICI)] Nakata K, et al. **Eisei Shikenjo Hokoku** 1996;(114):53–61 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Sennosides Reference Standard (Control 951) of the National Institute of Health Sciences] Okada S, et al. **Eisei Shikenjo Hokoku** 1996;(114):106–12 (Eng. Abstr.) **(Jpn)**

[Elcatonin Reference Standard (Control 921) of National Institute of Health Sciences] Okada S, et al. **Eisei Shikenjo Hokoku** 1994;(112):161–6 (Eng. Abstr.) **(Jpn)**

[The Human Insulin Reference Standard (Control 921) of the National Institute of Health Sciences] Yomota C, et al. **Eisei Shikenjo Hokoku** 1994;(112):155–60 (Eng. Abstr.) **(Jpn)**

[The Somatropin Reference Standard (Control 951) of the National Institute of Health Sciences] Yomota C, et al. **Eisei Shikenjo Hokoku** 1996;(114):130–5 (Eng. Abstr.) **(Jpn)**

[Industrial ecology problems in the activities of the State Epidemiological Health Surveillance Center in Shchelkovo District, Moscow Province] Poliak VE. **Med Tr Prom Ekol** 1997;(3):34–6 (Eng. Abstr.) **(Rus)**

[The scientific rationale and basic methodological principles for creating government statistics on childhood disability in the Russian Federation] Ignat'eva RK, et al. **Probl Sotsialnoi Gig Istor Med** 1994 Nov–Dec;(6):13–20 (Eng. Abstr.) **(Rus)**

[Assessing the effectiveness and quality of state epidemiologic surveillance and the activities of the first level sanitary epidemiologic institutions] Kutsenko GI, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):32–4 (Eng. Abstr.) **(Rus)**

[The development and realization of government scientific

GOVERNMENT AGENCIES

and technical programs in the field of nutritional rationalization for the population in ecologically unfavorable regions of Russia] Kniazhev VA. **Vopr Pitan** 1996;(3):9–13 (Eng. Abstr.) **(Rus)**

[The National Medical Arbitration Commission and the quality of care] Fernández-Varela Mejía H. **Gac Med Mex** 1997 Jan–Feb;133(1):57–60 **(Spa)**

[Collaboration between non-governmental organizations and governments for health sector reform] Dickson K. **Rev Panam Salud Publica** 1997 Apr;1(4):324–9 (9 ref.) (Eng. Abstr.) **(Spa)**

ECONOMICS

The future of the national laboratories. Cohen LR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12678–85

Congress readies injection of funds [news] Cohen J. **Science** 1997 Aug 8;277(5327):760

NIH leads research gains as Congress picks up pace [news] Lawler A, et al. **Science** 1997 Jul 25;277(5325):470–1

HISTORY

[The 50th anniversary of the State Scientific Center on Antibiotics (pages from its history)] Kuznetsova SM. **Antibiot Khimioter** 1997;42(5):10–23 **(Rus)**

LEGISLATION & JURISPRUDENCE

Anchorage clears the air. How Anchorage came to ban smoking in all buildings operated by city government including public schools. Wilson R. **Alaska Med** 1996 Jan–Mar;38(1):10–1

Dentistry in the 21st century: what can congress do? The lose-lose guidelines of federal regulations. Norwood C. **J Am Coll Dent** 1996 Spring;63(1):7–10

How ADA participates in the federal regulatory process [news] **J Am Diet Assoc** 1997 Mar;97(3):250

Report charges "cover-up" by Canada's blood overseers [news] Kondro W. **Lancet** 1997 Feb 1;349(9048):336

Federal sector issues regarding workplace law. Kennon RS. **Occup Med** 1996 Jan–Mar;11(1):137–44

[The regulations for the forensic medical expertise of the severity of harm to health. Appendix 2 to the order of the Ministry of Public Health of the Russian Federation of 10 December 1996 No. 407] **Sud Med Ekspert** 1997 Apr–Jun;40(2):48–53 **(Rus)**

ORGANIZATION & ADMINISTRATION

The view from Washington: an emergency physician in NHTSA's court. Martinez R. **Acad Emerg Med** 1997 Apr; 4(4):313–22

The Federal Demonstration Partnership, phase III: a cooperative venture between federal agencies and participating institutions. Siegel BE. **Acad Med** 1997 May; 72(5):374–5

Perspectives on the place of environmental health and protection in public health and public health agencies. Kotchian S. **Annu Rev Public Health** 1997;18:245–59 (36 ref.)

Food safety: from plough to plate [editorial] Godlee F. **BMJ** 1997 Sep 13;315(7109):619–20

Regional Plan of Action on HIV/AIDS Control 1996–1999 and NGO-government collaboration. **Bull Pan Am Health Organ** 1996 Mar;30(1):82–4

The Canadian Food Inspection Agency [editorial] Hare D. **Can Vet J** 1997 Jun;38(6):329–30 **(Eng, Fre)**

Restructuring of the Chronic Disease Program at the Laboratory Centre for Disease Control. Wigle DT, et al. **Chronic Dis Can** 1996 Spring;17(2):74–6

Medical Research Council. **Curr Biol** 1996 May 1;6(5):495

Federal agencies collaborate to control dangerous new Salmonella strain [news] Hollingsworth J, et al. **J Am Vet Med Assoc** 1997 Jun 15;210(12):1712, 1716

UK reaffirms commitment to independent food agency [news] Masood E. **Nature** 1997 Sep 11;389(6647):109

Abortion foe blamed for research head upset in Australia [news] Pockley P. **Nature** 1997 Feb 27;385(6619):758

Proposed reorganization of the Veterinary Field Service. Linklater KA. **Vet Rec** 1997 Feb 1;140(5):133

[Children's welfare system in the U.K.—current multiagencies aspects] Morita H. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):322–33 **(Jpn)**

[Occupational health services in Sweden—Occupational safety and hygiene and control of the working environment] Skowrońska R, et al. **Med Pr** 1995; 46(6):627–36 (Eng. Abstr.) **(Pol)**

[Control of the work environment in Sweden. I. Instances of control] Zielińska-Jankiewicz K, et al. **Med Pr** 1995; 46(6):619–25 (Eng. Abstr.) **(Pol)**

[State and local administration, alcoholism and narcotic addiction] Lach U, et al. **Przegl Lek** 1997;54(6):456–8 (12 ref.) (Eng. Abstr.) **(Pol)**

[The coordination of the forensic medical service with the obligatory medical insurance funds] Grinenko AIa, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):42–3 **(Rus)**

[The coordination of the forensic medical service with the medical criminology subdivisions of internal affairs organs in the personal identification of unidentified corpses] Pashinian GA, et al. **Sud Med Ekspert** 1997 Jan–Mar; 40(1):39–41 (Eng. Abstr.) **(Rus)**

[The organization of the work of the State Epidemiological Health Service of the Russian Federation in ensuring the sanitary and epidemiological wellbeing of refugees and forced migrants] Khalilullina AS, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):52–7 **(Rus)**

[The Instituto Navarro de Salud Laboral: an experience in collaboration between health and occupational jurisdictions] Gallo Fernández M. **Rev Esp Salud Publica** 1996 Jul–Aug;70(4):431–6 (Eng. Abstr.) **(Spa)**

[Occupational health in the Autonomous Community of the Basque Country. OSALAN-Instituto Vasco de Seguridad y Salud Laborales] Martínez Castillo A, et al. **Rev Esp Salud Publica** 1996 Jul–Aug;70(4):437–44 (Eng. Abstr.) **(Spa)**

STANDARDS

New rules for methylene chloride [news] **Environ Health Perspect** 1996 Dec;104(12):1270

Characteristics of a model state agency program for the safety of foods of animal origin. Rosser WW. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2058–61

STATISTICS & NUMERICAL DATA

Public employees as a group at risk for violence. Barab J. **Occup Med** 1996 Apr–Jun;11(2):257–67 (34 ref.)

TRENDS

The future of the national laboratories. Cohen LR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12678–85

GOVERNMENT, STATE see **STATE GOVERNMENT**

GP41(HIV) see **HIV ENVELOPE PROTEIN GP41**

GP120(HIV) see **HIV ENVELOPE PROTEIN GP120**

GP120(V-FMS) see **ONCOGENE PROTEIN GP140(V-FMS)**

GP140(V-FMS) see **ONCOGENE PROTEIN GP140(V-FMS)**

GP160(HIV) see **HIV ENVELOPE PROTEIN GP160**

GPI MEMBRANE ANCHORS see **GLYCOSYLPHOSPHATIDYLINOSITOLS**

GPIIB-IIIA RECEPTORS see **PLATELET GLYCOPROTEIN GPIIB-IIIA COMPLEX**

GRAAFIAN FOLLICLE

see related
GRANULOSA CELLS
OVUM
THECA CELLS

Ovarian follicular cysts in dairy cows. Garverick HA. **J Dairy Sci** 1997 May;80(5):995–1004 (98 ref.)

Ultrasound-guided follicle aspiration and IVF in dairy cows treated with FSH after removal of the estrous cycle. Ooe M, et al. **J Vet Med Sci** 1997 May;59(5):371–6

Culture of preantral ovarian follicles in the grey, short-tailed opossum, Monodelphis domestica. Butcher L, et al. **Reprod Fertil Dev** 1996;8(4):535–9

ABNORMALITIES

Postmortem comparison of ultrasonography, endocrine measurements and histology of large abnormal ovarian follicles in cows. Scott SJ, et al. **Vet Rec** 1997 Jun 21; 140(25):654–6

ANATOMY & HISTOLOGY

A comparison of dissected follicle numbers and follicle counts on the ovarian surface for the evaluation of ovarian follicular populations in Bos indicus cows. Fitzpatrick LA, et al. **Anim Reprod Sci** 1997 Apr;46(3–4):179–86

Insulin-like growth factor (IGF)-binding protein production by primary cultures of ovine granulosa and theca cells. The effects of IGF-I, gonadotropin, and follicle size. Armstrong DG, et al. **Biol Reprod** 1996 Nov;55(5):1163–71

Selection of the dominant follicle in cattle. Ginther OJ, et al. **Biol Reprod** 1996 Dec;55(6):1187–94 (76 ref.)

Equine oocyte competence for nuclear and cytoplasmic in vitro maturation: effect of follicle size and hormonal environment. Goudet G, et al. **Biol Reprod** 1997 Aug; 57(2):232–45

Characterization of the growth center of the avian preovulatory follicle. Tischkau SA, et al. **Biol Reprod** 1997 Feb;56(2):469–74

The cellular activity of different sized follicles in cycles treated with gonadotrophin-releasing hormone analogue. Andreani CL, et al. **Hum Reprod** 1997 Jan;12(1):89–94

A model conforming the decline in follicle numbers to the age of menopause in women. Faddy MJ, et al. **Hum Reprod** 1996 Jul;11(7):1484–6

Methods of separation and in-vitro culture of pre-antral follicles from mammalian ovaries. Roy SK, et al. **Hum Reprod Update** 1996 May–Jun;2(3):236–45

Follicle size and implantation of embryos from in vitro fertilization. Miller KF, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):583–6

BLOOD SUPPLY

Follicular vascularity—the predictive value of transvaginal power Doppler ultrasonography in an in-vitro fertilization programme: a preliminary study. Chui DK, et al. **Hum Reprod** 1997 Jan;12(1):191–6

Ultrasound derived indices of follicular blood flow before HCG administration and the prediction of oocyte recovery and preimplantation embryo quality. Nargund G, et al. **Hum Reprod** 1996 Nov;11(11):2512–7

Regulation of angiogenesis by hypoxic stress: from solid tumours to the ovarian follicle. Neeman M, et al. **Int J Exp Pathol** 1997 Apr;78(2):57–70 (121 ref.)

CHEMISTRY

Immunocytochemical localization of mu-opioid receptors in follicular cells and preimplantation mouse embryos. Kalyuzhny AE, et al. **Anat Embryol (Berl)** 1997 May; 195(5):451–5

Comparison of immunocytologic localization of insulin-like growth factor binding protein-4 in normal and polycystic ovary syndrome human ovaries. Peng X, et al. **Endocr J** 1996 Jun;43(3):269–78

Relaxin: an ovarian hormone in an avian species (Gallus domesticus). Brackett KH, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):155–63

Localization of the mRNA encoding the zona protein ZP3 alpha in the porcine ovary, oocyte and embryo by non-radioactive in situ hybridization. Kölle S, et al. **Histochem J** 1996 Jun;28(6):441–7

Immunocytochemical localization of ZP3 in primordial follicles of rabbit, marmoset, rhesus monkey and human ovaries using antibodies against human ZP3. Grootenhuis AJ, et al. **J Reprod Fertil Suppl** 1996;50:43–54

Expression of multiple thyroid hormone receptor mRNAs in human oocytes, cumulus cells, and granulosa cells. Zhang SS, et al. **Mol Hum Reprod** 1997 Jul;3(7):555–62

CYTOLOGY

Ovum pick up in swine: the influence of aspiration vacuum pressure on oocyte recovery from preovulatory follicles. Brüssow KP, et al. **Acta Vet Hung** 1997;45(2):189–96

Seasonal and acute heat stress effects on steroid production by dominant follicles in cows. Wolfenson D, et al. **Anim Reprod Sci** 1997 May;47(1–2):9–19

Elimination of apoptotic granulosa cells by intact granulosa cells and macrophages in atretic mature follicles of the guinea pig ovary. Kasuya K. **Arch Histol Cytol** 1997 Jun; 60(2):175–84

Development in vitro of mouse oocytes from primordial follicles. Eppig JJ, et al. **Biol Reprod** 1996 Jan;54(1):197–207

Factors affecting in vitro maturation of minke whale (Balaenoptera acutorostrata) follicular oocytes. Fukui Y, et al. **Biol Reprod** 1997 Feb;56(2):523–8

An accurate, simple method for unbiased determination of primordial follicle number in the primate ovary. Miller PB, et al. **Biol Reprod** 1997 Apr;56(4):909–15

Insulin-like growth factor-I, a component of serum that enables porcine cumulus cells to expand in response to follicle-stimulating hormone in vitro. Singh B, et al. **Biol Reprod** 1997 Jun;56(6):1370–5

Evidence for the maintenance of macrophage-like cells in long-term bovine granulosa cell cultures. Spanel-Borowski K, et al. **Cell Tissue Res** 1997 Jun;288(3):529–38

alpha-Spectrin is required for ovarian follicle monolayer integrity in Drosophila melanogaster. Lee JK, et al. **Development** 1997 Jan;124(2):353–62

Regulation of ovarian follicle differentiation in gonadotrophin-stimulated rats. Andreu CV, et al. **Endocrine** 1997 Apr;6(2):145–51

Isolation and characterization of primordial follicles from fresh and cryopreserved human ovarian tissue. Oktay K, et al. **Fertil Steril** 1997 Mar;67(3):481–6

The utility of a midcycle follicle-stimulating hormone boost in addition to human chorionic gonadotropin for timing of follicle aspiration in unstimulated in vitro fertilization cycles. Lindheim SR, et al. **Gynecol Obstet Invest** 1997; 43(2):76–8

In-vitro maturation, fertilization and embryo development of immature oocytes from early preantral follicles from prepuberal mice in a simplified culture system. Cortvrindt R, et al. **Hum Reprod** 1996 Dec;11(12):2656–66

'Curing' empty follicle syndrome [letter] Khalaf Y, et al. **Hum Reprod** 1997 Jul;12(7):1601

Nitric oxide concentrations in the follicular fluid and apoptosis of granulosa cells in human follicles. Sugino N, et al. **Hum Reprod** 1996 Nov;11(11):2484–7

Evidence for the oligoclonal origin of the granulosa cell population of the mature human follicle. Van Deerlin PG, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3019–24

Expression of the ovine stem cell factor gene during folliculogenesis in late fetal and adult ovaries. Tisdall DJ, et al. **J Mol Endocrinol** 1997 Apr;18(2):127–35

Effect of oocyte retrieval from a small leading follicle in fixed-schedule in vitro fertilization program. Nagai S, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):165–9

Influence of sampling on the reproducibility of ovarian follicle counts in mouse toxicity studies. Bucci TJ, et al. **Reprod Toxicol** 1997 Sep–Oct;11(5):689–96

DRUG EFFECTS

The number of follicles and ovarian volume in the assessment of the response to clomiphene citrate in polycystic ovarian syndrome. Fiçicioğlu C, et al. **Acta Eur Fertil** 1995 May-Jun;26(3):101-4

The number of follicles and ovarian volume in the assessment of response to clomiphene citrate treatment in polycystic ovarian syndrome. Fiçicioğlu C, et al. **Acta Obstet Gynecol Scand** 1996 Nov;75(10):917-21

Effect of 48 h treatment with 17 beta-oestradiol or progesterone on follicular wave emergence and synchrony of ovulation in Bos indicus cows when administered at the end of a period of progesterone treatment. Cavalieri J, et al. **Anim Reprod Sci** 1997 Apr;46(3-4):187-201

Influence of varied progestogen treatments on ovarian follicle status and subsequent ovarian superstimulatory responses in cows. D'Occhio MJ, et al. **Anim Reprod Sci** 1997 Jan; 45(4):241-53

Insulin-like growth factor-1, a component of serum that enables porcine cumulus cells to expand in response to follicle-stimulating hormone in vitro. Singh B, et al. **Biol Reprod** 1997 Jun;56(6):1370-5

Effect of exposure to continuous light and melatonin on ovarian follicular kinetics in the skipper frog, Rana cyanophlyctis. Udaykumar K, et al. **Biol Signals** 1997 Mar-Apr;6(2):62-6

Effect of mifepristone on folliculogenesis in women treated with recombinant FSH. Messinis IE, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):309-14

Effects of isoquinolinesulfonamide H-8 on Fundulus heteroclitus ovarian follicles: role of cyclic nucleotide-dependent protein kinases on steroidogenesis and oocyte maturation in vitro. Cerdà J, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):75-81

Effect of gonadotropin treatment on size, number, and cell proliferation of antral follicles in cows. Fricke PM, et al. **Domest Anim Endocrinol** 1997 May;14(3):171-80

Recombinant human growth hormone acts on intermediate-sized follicles and rescues growing follicles from atresia. Ozawa K, et al. **Endocr J** 1996 Feb;43(1):87-92

Tumor necrosis factor-alpha and its second messenger, ceramide, stimulate apoptosis in cultured ovarian follicles. Kaipia A, et al. **Endocrinology** 1996 Nov;137(11):4864-70

Lindane, an inhibitor of gap junction formation, abolishes oocyte directed follicle organizing activity in vitro. Li R, et al. **Endocrinology** 1997 Oct;138(10):4477-80

Overview of ovarian follicular development: considerations for the toxicologist. Hirshfield AN. **Environ Mol Mutagen** 1997;29(1):10-5 (17 ref.)

Substitution with testosterone as aromatizable substrate for induction of follicular maturation, estradiol production and ovulation in a patient with 17 alpha-hydroxylase deficiency. Neuwinger J, et al. **Exp Clin Endocrinol Diabetes** 1996;104(5):400-8

Effects of indomethacin on follicular structure, vascularity, and function over the periovulatory period in women. Athanasiou S, et al. **Fertil Steril** 1996 Mar;65(3):556-60

Growth hormone enhances estradiol production follicle-stimulating hormone-induced in the early stage of the follicular maturation. Lanzone A, et al. **Fertil Steril** 1996 Dec;66(6):948-53

A study to determine whether serum follicle-stimulating hormone can be a marker for ovarian hyperresponse to follicle-maturing drugs for in vitro fertilization. Check JH, et al. **Gynecol Obstet Invest** 1997;43(4):242-4

Effect of luteinizing hormone-releasing hormone analogs on the rat ovarian follicle development. Yano T, et al. **Horm Res** 1997;48 Suppl 3:35-41

Time interval from human chorionic gonadotrophin (HCG) injection to follicular rupture. Andersen AG, et al. **Hum Reprod** 1995 Dec;10(12):3202-5

Specific gonadotrophin-releasing hormone analogue binding predominantly in human luteinized follicular aspirates and not in human pre-ovulatory follicles. Brus L, et al. **Hum Reprod** 1997 Apr;12(4):769-73

Assessment of the need for follicle stimulating hormone in early preantral mouse follicle culture in vitro. Cortvrindt R, et al. **Hum Reprod** 1997 Apr;12(4):759-68

Roles of follicle stimulating hormone and luteinizing hormone in controlled ovarian hyperstimulation. Hillier SG. **Hum Reprod** 1996 Nov;11 Suppl 3:113-21 (28 ref.)

Flow cytometric analysis of granulosa cells from follicular fluid after follicular stimulation. Neubourg DD, et al. **Hum Reprod** 1996 Oct;11(10):2211-4

Exogenous pulses of luteinizing hormone cause persistence of the largest bovine ovarian follicle. Taft R, et al. **J Anim Sci** 1996 Dec;74(12):2985-91

Effect of cryoprotectants on the survival of follicles in frozen mouse ovaries. Candy CJ, et al. **J Reprod Fertil** 1997 May; 110(1):11-9

Partial purification from bovine follicular fluid of a factor of low molecular mass with inhibitory effects on the proliferation of bovine granulosa cells in vitro and on rat follicular development in vivo. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):185-91

Lead-induced changes in ovarian follicular development and maturation in mice. Junaid M, et al. **J Toxicol Environ Health** 1997 Jan;50(1):31-40

Stimulatory effect of growth hormone on in vitro maturation of bovine oocytes is exerted through cumulus cells and not mediated by IGF-I. Izadyar F, et al. **Mol Reprod Dev** 1997 Jun;47(2):175-80

Prostaglandin synthesis is suppressed by progesterone in rat preovulatory follicles in vitro. Hedin L, et al. **Prostaglandins** 1997 Feb;53(2):91-106

Follicular mechanisms associated with 4-vinylcyclohexene diepoxide-induced ovotoxicity in rats. Springer LN, et al. **Reprod Toxicol** 1996 Mar-Apr;10(2):137-43

Enhanced expression of bax in small preantral follicles during 4-vinylcyclohexene diepoxide-induced ovotoxicity in the rat. Springer LN, et al. **Toxicol Appl Pharmacol** 1996 Aug; 139(2):402-10

Ovarian dysfunction in mice following chromium (VI) exposure. Murthy RC, et al. **Toxicol Lett** 1996 Dec 16; 89(2):147-54

Pathological effects of dietary zearalenone and/or tamoxifen on female mink reproductive organs. Yamini B, et al. **Vet Hum Toxicol** 1997 Apr;39(2):74-8

Gonadotropin suppression of apoptosis in follicle somatic cells. Galeati G, et al. **Zygote** 1996 Nov;4(4):299-303

EMBRYOLOGY

Timing of activation of primordial follicles in mature rats is only slightly affected by fetal stage at meiotic arrest. Meredith S, et al. **Biol Reprod** 1997 Jul;57(1):63-7

Initiation in vitro of growth of bovine primordial follicles. Wandji SA, et al. **Biol Reprod** 1996 Nov;55(5):942-8

Multiple Ras signals pattern the Drosophila ovarian follicle cells. Lee T, et al. **Dev Biol** 1997 May 1;185(1):25-33

Ultrastructure of human reproduction from folliculogenesis to early embryo development. A review. Motta PM, et al. **Ital J Anat Embryol** 1995 Oct-Dec;100(4):9-72 (143 ref.)

ENZYMOLOGY

Coding sequence of a hyaluronan synthase homologue expressed during expansion of the mouse cumulus-oocyte complex. Fülöp C, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):261-6

Changes in lysosomal enzyme activities in pre-ovulatory follicles and endometrium of PMSG superovulated rats. Baños ME, et al. **Arch Med Res** 1996 Spring;27(1):49-55

Follicular 3 beta-hydroxysteroid dehydrogenase and cytochromes P450 17 alpha-hydroxylase and aromatase messenger ribonucleic acids in cattle undergoing superovulation. Soumano K, et al. **Biol Reprod** 1996 Dec; 55(6):1419-26

Expression of urokinase-type plasminogen activator and its receptor during ovarian follicular development. Li M, et al. **Endocrinology** 1997 Jul;138(7):2790-9

The late induction of prostaglandin G/H synthase-2 in equine preovulatory follicles supports its role as a determinant of the ovulatory process [see comments] Sirois J, et al. **Endocrinology** 1997 Oct;138(10):4427-34. Comment in: Endocrinology 1997 Oct;138(10):4047-8.

Isolation and characterization of the cDNA encoding the tilapia (Oreochromis niloticus) cytochrome P450 aromatase (P450arom): changes in P450arom mRNA, protein and enzyme activity in ovarian follicles during oogenesis. Chang XT, et al. **J Mol Endocrinol** 1997 Feb;18(1):57-66

5alpha-reductase 1 and 2 expression and activity in human ovarian follicles, stroma and corpus luteum as compared to neonatal foreskin. Haning RV Jr, et al. **J Steroid Biochem Mol Biol** 1996 Oct;59(2):199-204

Aromatase activity of ovine follicular walls: technical validation and physiological control. Driancourt MA, et al. **Reprod Fertil Dev** 1996;8(5):875-84

GROWTH & DEVELOPMENT

Use of a GnRH antagonist in conjunction with low amplitude, high frequency LH pulses to induce follicular growth without an LH surge and ovulation in ewes. Dobson H, et al. **Anim Reprod Sci** 1997 Apr;46(3-4):213-22

Energy balance and ovarian follicle development prior to the first ovulation postpartum in dairy cows receiving three levels of dietary fat. Beam SW, et al. **Biol Reprod** 1997 Jan;56(1):133-42

Pituitary function, ovarian follicular growth, and plasma concentrations of 17 beta-estradiol and progesterone in prepubertal heifers during and after treatment with the luteinizing hormone-releasing hormone agonist deslorelin. Bergfeld EG, et al. **Biol Reprod** 1996 Apr;54(4):776-82

Growth and cellular proliferation of antral follicles throughout the follicular phase of the estrous cycle in Meishan gilts. Fricke PM, et al. **Biol Reprod** 1996 Apr; 54(4):879-87

Steroidogenic enzyme expression during preovulatory follicle maturation in pigs. Garrett WM, et al. **Biol Reprod** 1997 Jun;56(6):1424-31

Suppression in the secretion of follicle-stimulating hormone and luteinizing hormone, and ovarian follicle development in heifers continuously infused with a gonadotropin-releasing hormone agonist. Gong JG, et al. **Biol Reprod** 1996 Jul;55(1):68-74

Semilunar follicular cycle of an intertidal fish: the Fundulus model. Hsiao SM, et al. **Biol Reprod** 1996 Apr;54(4):809-18

Effects of gonadotropin treatment and withdrawal on follicular growth, cell proliferation, and atresia in ewes. Jablonka-Shariff A, et al. **Biol Reprod** 1996 Sep; 55(3):693-702

Timing of activation of primordial follicles in mature rats is only slightly affected by fetal stage at meiotic arrest. Meredith S, et al. **Biol Reprod** 1997 Jul;57(1):63-7

Effects of insulin-like growth factor-I on follicle growth, oocyte maturation, and ovarian steroidogenesis and plasminogen activator activity in the rabbit. Yoshimura Y, et al. **Biol Reprod** 1996 Jul;55(1):152-60

Influence of follicular maturation on the susceptibility of chicken ovarian granulosa cells to free oxygen radicals. Nemecz G, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):25-30

Expression of CCAAT enhancer binding protein-alpha (C/EBP alpha) in the rat ovary: implications for follicular development and ovulation. Piontkewitz Y, et al. **Dev Biol** 1996 Oct 10;179(1):288-96

Stepwise requirement of c-kit tyrosine kinase in mouse ovarian follicle development. Yoshida H, et al. **Dev Biol** 1997 Apr 1;184(1):122-37

Pattern of vitellogenesis and follicle maturational competence during the ovarian follicular cycle of Fundulus heteroclitus. Cerdá J, et al. **Gen Comp Endocrinol** 1996 Jul;103(1):24-35

Effect of luteinizing hormone-releasing hormone analogs on the rat ovarian follicle development. Yano T, et al. **Horm Res** 1997;48 Suppl 3:35-41

Relationship of fertility to patterns of ovarian follicular development and associated hormonal profiles in dairy cows and heifers. Cooperative Regional Research Project. **J Anim Sci** 1996 Aug;74(8):1943-52

Follicular growth and maturation in hyperprolific and large white sows. Driancourt MA, et al. **J Anim Sci** 1996 Sep; 74(9):2231-8

Dietary fats varying in their fatty acid composition differentially influence follicular growth in cows fed isoenergetic diets. Thomas MG, et al. **J Anim Sci** 1997 Sep;75(9):2512-9

Expression of the ovine stem cell factor gene during folliculogenesis in late fetal and adult ovaries. Tisdall DJ, et al. **J Mol Endocrinol** 1997 Apr;18(2):127-35

Relationships between follicle-stimulating hormone, follicle growth and ovulation rate in sheep. Fry RC, et al. **Reprod Fertil Dev** 1996;8(2):279-86

IMMUNOLOGY

Expression of Fas-Fas ligand system associated with atresia through apoptosis in murine ovary. Mori T, et al. **Horm Res** 1997;48 Suppl 3:11-9

METABOLISM

Growth-regulated alpha expression in human preovulatory follicles and ovarian cells. Oral E, et al. **Am J Reprod Immunol** 1997 Jul;38(1):19-25

Seasonal and acute heat stress effects on steroid production by dominant follicles in cows. Wolfenson D, et al. **Anim Reprod Sci** 1997 May;47(1-2):9-19

Expression of messenger ribonucleic acid (mRNA) encoding 3beta-hydroxysteroid dehydrogenase delta4,delta5 isomerase (3beta-HSD) during recruitment and selection of bovine ovarian follicles: identification of dominant follicles by expression of 3beta-HSD mRNA within the granulosa cell layer. Bao B, et al. **Biol Reprod** 1997 Jun; 56(6):1466-73

Changes in messenger ribonucleic acid encoding luteinizing hormone receptor, cytochrome P450-side chain cleavage, and aromatase are associated with recruitment and selection of bovine ovarian follicles. Bao B, et al. **Biol Reprod** 1997 May;56(5):1158-68

Expression of inhibin alpha and inhibin/activin beta A subunits in the granulosa layer of the large preovulatory follicles of the hen. Chen CC, et al. **Biol Reprod** 1996 Aug; 55(2):450-4

Localization and quantification of binding sites for follicle-stimulating hormone, luteinizing hormone, growth hormone, and insulin-like growth factor I in sheep ovarian follicles. Eckery DC, et al. **Biol Reprod** 1997 Sep; 57(3):507-13

Steroidogenic enzyme expression during preovulatory follicle maturation in pigs. Garrett WM, et al. **Biol Reprod** 1997 Jun;56(6):1424-31

Expression of avian urokinase and tissue-type plasminogen activator messenger ribonucleic acid during follicle development and atresia. Johnson AL, et al. **Biol Reprod** 1997 Mar;56(3):581-8

Immunolocalization of tissue inhibitor of metalloproteinases-1 within ovine periovulatory follicular and luteal tissues. McIntush EW, et al. **Biol Reprod** 1996 Apr;54(4):871-8

Developmental and hormonal regulation of rat theca-cell differentiation factor secretion in ovarian follicles. Magarelli PC, et al. **Biol Reprod** 1996 Aug;55(2):416-20

Messenger ribonucleic acid for insulin-like growth factors-I and -II, insulin-like growth factor-binding protein-2, gonadotropin receptors, and steroidogenic enzymes in porcine follicles. Yuan W, et al. **Biol Reprod** 1996 Nov; 55(5):1045-54

Analytical and clinical evaluation of the Immulite estradiol assay in serum from patients undergoing in vitro fertilization: estradiol increase in mature follicles. Dancoine F, et al. **Clin Chem** 1997 Jul;43(7):1165-71

Interleukin-8 expression and modulation in human preovulatory follicles and ovarian cells. Arici A, et al. **Endocrinology** 1996 Sep;137(9):3762-9

Differential expression of four connexin genes, Cx-26, Cx-30.3, Cx-32, and Cx-43, in the porcine ovarian follicle.

Itahana K, et al. **Endocrinology** 1996 Nov;137(11):5036–44

Regulation of insulin-like growth factor I biosynthesis in porcine granulosa cells. Samaras SE, et al. **Endocrinology** 1996 Nov;137(11):4657–64

Distinct mechanisms regulate induction of messenger ribonucleic acid for prostaglandin (PG) G/H synthase-2, PGE (EP3) receptor, and PGF2 alpha receptor in bovine preovulatory follicles. Tsai SJ, et al. **Endocrinology** 1996 Aug;137(8):3348–55

The effect of the aromatase inhibitor fadrozole and two polynuclear aromatic hydrocarbons on sex steroid secretion by ovarian follicles of coho salmon. Afonso LO, et al. **Gen Comp Endocrinol** 1997 May;106(2):169–74

Expression and regulation of mRNA for inhibin/activin alpha- and betaA-subunits in the granulosa layer of the two largest preovulatory follicles during the hen ovulatory cycle. Chen CC, et al. **Gen Comp Endocrinol** 1997 Sep; 107(3):386–93

Multifactorial regulation of DNA synthesis in goldfish ovarian follicles. Kumar Srivastava R, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):397–403

Ovarian receptors for insulin and insulin-like growth factor I (IGF-I) and effects of IGF-I on steroid production by isolated follicular layers of the preovulatory coho salmon ovarian follicle. Maestro MA, et al. **Gen Comp Endocrinol** 1997 May;106(2):189–201

Expression of messenger ribonucleic acids of luteinizing hormone and follicle-stimulating hormone receptors in granulosa and theca layers of chicken preovulatory follicles. Zhang C, et al. **Gen Comp Endocrinol** 1997 Mar; 105(3):402–9

Human follicular nitric oxide pathway: relationship to follicular size, oestradiol concentrations and ovarian blood flow. Anteby EY, et al. **Hum Reprod** 1996 Sep; 11(9):1947–51

Different protein patterns derived from follicular fluid of mature and immature human follicles. Spitzer D, et al. **Hum Reprod** 1996 Apr;11(4):798–807

Inhibin in individual buffalo ovarian follicles in relation to size. Palta P, et al. **Indian J Exp Biol** 1996 Jun;34(6):606–8

Cytoplasmic transport in Drosophila ovarian follicles: the migration of microinjected fluorescent probes through intercellular bridges depends neither on electrical charge nor on external osmolarity. Bohrmann J, et al. **Int J Dev Biol** 1997 Jun;41(3):499–507

The significance of elevated early follicular-phase follicle stimulating hormone (FSH) levels: observations in unstimulated in vitro fertilization cycles. Lindheim SR, et al. **J Assist Reprod Genet** 1996 Jan;13(1):49–52

The significance of high follicular-phase luteinizing hormone levels in the treatment of women with polycystic ovarian syndrome by in vitro fertilization. Tarlatzis BC, et al. **J Assist Reprod Genet** 1997 Jan;14(1):1–4 (22 ref.)

Involvement of chloride channels in progesterone production during meiotic maturation of follicle-enclosed oocytes of Rana temporaria and Xenopus laevis. Skoblina MN, et al. **J Exp Zool** 1997 Aug 15;278(6):422–8

Monocyte chemotactic protein-1 expression in human preovulatory follicles and ovarian cells. Arici A, et al. **J Reprod Immunol** 1997 Feb;32(3):201–19

The expression of leptin and its receptors in pre-ovulatory human follicles. Cioffi JA, et al. **Mol Hum Reprod** 1997 Jun;3(6):467–72

Effects of interleukin-1 beta fragment (163–171) on progesterone and estradiol-17 beta release by bovine granulosa cells from different size follicles. Baratta M, et al. **Regul Pept** 1996 Dec 17;67(3):187–94

[Insulin-like growth factors I and II in follicular and oocyte maturation] Franchimont P, et al. **Nucl Med Biol** 1994 Apr; 21(3):523–30 (Eng. Abstr.) **(Fre)**

PATHOLOGY

Polycystic ovarian condition in the dehydroepiandrosterone-treated rat model: hyperandrogenism and the resumption of meiosis are major initial events associated with cystogenesis of antral follicles. Anderson E, et al. **Anat Rec** 1997 Sep;249(1):44–53

Incidence of apoptotic bodies in membrana granulosa of the patients participating in an in vitro fertilization program. Nakahara K, et al. **Fertil Steril** 1997 Feb;67(2):302–8

Predicting empty follicle syndrome [published erratum appears in Fertil Steril 1997 Aug;68(2):386] Ndukwe G, et al. **Fertil Steril** 1996 Nov;66(5):845–7

Empty follicle syndrome [letter; comment] Harrison RF, et al. **Hum Reprod** 1996 Feb;11(2):459–60. Comment on: Hum Reprod 1995 Sep;10(9):2262–5.

'Curing' empty follicle syndrome. Ndukwe G, et al. **Hum Reprod** 1997 Jan;12(1):21–3

Ovulation by repeated human chorionic gonadotrophin in 'empty follicle syndrome' yields a twin clinical pregnancy. Ubaldi F, et al. **Hum Reprod** 1997 Mar;12(3):454–6

The polycystic ovarian (PCO) condition: apoptosis and epithelialization of the ovarian antral follicles are aspects of cystogenesis in the dehydroepiandrosterone (DHEA)-treated rat model. Anderson E, et al. **Tissue Cell** 1997 Apr;29(2):171–89

PHYSIOLOGY

Alterations in follicular maturation associated with within-breed variation in ovulation rate in Chios sheep. Avdi M, et al. **Anim Reprod Sci** 1997 Apr;46(3–4):223–35

Lack of effects of growth hormone administration on ovarian function of lactating goats. Driancourt MA, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):123–32

Fibronectin concentrations correlate with ovarian follicular size and estradiol values in equine follicular fluid. Gentry PA, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):91–102

Evidence that the conceptus contributes to the inhibition of follicular growth in the ewe. al-Gubory KH, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):71–80

Superovulation in cattle: effect of FSH type and method of administration on follicular growth, ovulatory response and endocrine patterns. Kelly P, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):1–14

Temporal aspects of ovarian follicular growth and steroidogenesis following exogenous follicle-stimulating hormone in Angus heifers. Kemper Green CN, et al. **Anim Reprod Sci** 1996 Dec 16;45(3):157–76

Effect of progesterone pre-treatment on steroid secretion rates and follicular fluid insulin-like growth factor-1 concentrations in seasonally anoestrous ewes treated with gonadotrophin releasing hormone. Khalid M, et al. **Anim Reprod Sci** 1997 Mar;46(1–2):69–78

Effect of the rate of progesterone decline at luteolysis on the ovulatory follicles and subsequent estrous cycle length in ewes. Wiley TM, et al. **Anim Reprod Sci** 1997 Mar; 46(1–2):79–87

Integrin alpha6 is involved in follicular growth in mice. Nakamura K, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):524–8

Proteolytic activity degrading insulin-like growth factor-binding protein-2, -3, -4, and -5 in healthy growing and atretic follicles in the pig ovary. Besnard N, et al. **Biol Reprod** 1997 Apr;56(4):1050–8

Expression of messenger ribonucleic acids of insulin-like growth factor binding protein-2, -4, and -5 in the ovine ovary: localization and changes during growth and atresia of antral follicles. Besnard N, et al. **Biol Reprod** 1996 Dec; 55(6):1356–67

Insulin-like growth factor system in bovine first-wave dominant and subordinate follicles. de la Sota RL, et al. **Biol Reprod** 1996 Oct;55(4):803–12

Endocrine activity of induced persistent follicles in sheep. Dobson H, et al. **Biol Reprod** 1997 Jan;56(1):208–13

Changes in androgen secretion and luteinizing hormone pulse amplitude are associated with the recruitment and growth of ovarian follicles during the luteal phase of the bovine estrous cycle. Evans AC, et al. **Biol Reprod** 1997 Aug; 57(2):394–401

Expression of androgen receptors and steroidogenic enzymes in relation to follicular growth and atresia following ovulation in pigs. Garrett WM, et al. **Biol Reprod** 1996 Nov;55(5):949–55

Ontogeny of steroidogenic enzyme gene expression in ovarian theca-interstitial cells in the rat: regulation by a paracrine theca-differentiating factor prior to achieving luteinizing hormone responsiveness. Gelety TJ, et al. **Biol Reprod** 1997 Apr;56(4):938–45

Selection of the dominant follicle in cattle. Ginther OJ, et al. **Biol Reprod** 1996 Dec;55(6):1187–94 (76 ref.)

Expression of different molecular mass forms of inhibin in atretic and nonatretic follicles during the early luteal phase and altrenogest-synchronized follicular phase in pigs. Guthrie HD, et al. **Biol Reprod** 1997 Apr;56(4):870–7

Changes in extracellular matrix components and steroidogenic enzymes during growth and atresia of antral ovarian follicles in the sheep. Huet C, et al. **Biol Reprod** 1997 Apr;56(4):1025–34

Morphological evidence of apoptosis and the prevalence of apoptotic versus mitotic cells in the membrana granulosa of ovarian follicles during spontaneous and induced atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):837–46

Ovarian intrabursal administration of transforming growth factor beta 1 inhibits follicle rupture in gonadotropin-primed mice. Juneja SC, et al. **Biol Reprod** 1996 Dec;55(6):1444–51

Expression of follistatin and inhibin/activin subunit genes in porcine follicles. Li MD, et al. **Biol Reprod** 1997 Jul; 57(1):112–8

Influence of the luteinizing hormone-releasing hormone agonist, deslorelin, on patterns of estradiol-17 beta and luteinizing hormone secretion, ovarian follicular responses to superstimulation with follicle-stimulating hormone, and recovery and in vitro development of oocytes in heifer calves. Maclellan LJ, et al. **Biol Reprod** 1997 Apr; 56(4):878–84

Effects of follicular cells on oocyte maturation. II: Theca cell inhibition of bovine oocyte maturation in vitro. Richard FJ, et al. **Biol Reprod** 1996 Jan;54(1):22–8

Effects of follicular cells on oocyte maturation. I: Effects of follicular hemisections on bovine oocyte maturation in vitro. Richard FJ, et al. **Biol Reprod** 1996 Jan;54(1):16–21

Follicular dynamics and ovarian steroid secretion in sheep during the follicular and early luteal phases of the estrous cycle. Souza CJ, et al. **Biol Reprod** 1997 Feb;56(2):483–8

Normal human follicle development: an evaluation of correlations with oestradiol, androstenedione and progesterone levels in individual follicles. van Dessel HJ, et al. **Clin Endocrinol (Oxf)** 1996 Feb;44(2):191–8

Ultrasonographic and endocrine evaluation of ovarian function among Norplant implants users with regular menses. Alvarez F, et al. **Contraception** 1996 Nov; 54(5):275–9

Ovarian activity during regular oral contraceptive use. Crosignani PG, et al. **Contraception** 1996 Nov;54(5):271–3

Shorter pill-free interval in combined oral contraceptives decreases follicular development. Spona J, et al. **Contraception** 1996 Aug;54(2):71–7

Biological activity of hormones in preovulatory follicular fluid and serum of women undergoing ovarian stimulation. Andersen CY. **Dan Med Bull** 1997 Jun;44(3):257–73 (180 ref.)

alpha-Spectrin is required for ovarian follicle monolayer integrity in Drosophila melanogaster. Lee JK, et al. **Development** 1997 Jan;124(2):353–62

Inhibin is involved in the suppression of FSH secretion in the growth phase of the dominant follicle during the early luteal phase in cows. Kaneko H, et al. **Domest Anim Endocrinol** 1997 Jul;14(4):263–71

Potential roles of tumor necrosis factor-alpha in follicular development, ovulation, and the life span of the corpus luteum. Terranova PF. **Domest Anim Endocrinol** 1997 Jan; 14(1):1–15 (104 ref.)

Effects of short-term treatment of a gonadotropin-releasing hormone agonist on the follicular development and gonadotropin secretion in the rat. Krishna A, et al. **Endocr Res** 1996 Aug;22(3):299–310

Selection of the dominant follicle in cattle occurs in the absence of differences in the expression of messenger ribonucleic acid for gonadotropin receptors. Evans AC, et al. **Endocrinology** 1997 Jul;138(7):2963–71

Targeted overexpression of Bcl-2 in ovaries of transgenic mice leads to decreased follicle apoptosis, enhanced folliculogenesis, and increased germ cell tumorigenesis. Hsu SY, et al. **Endocrinology** 1996 Nov;137(11):4837–43

Mothers against decapentaplegic-related protein 2 expression in avian granulosa cells is up-regulated by transforming growth factor beta during ovarian follicular development. Li M, et al. **Endocrinology** 1997 Sep;138(9):3659–65

Preantral ovarian follicles in serum-free culture: suppression of apoptosis after activation of the cyclic guanosine 3',5'-monophosphate pathway and stimulation of growth and differentiation by follicle-stimulating hormone. McGee E, et al. **Endocrinology** 1997 Jun;138(6):2417–24

A role for neurotransmitters in early follicular development: induction of functional follicle-stimulating hormone receptors in newly formed follicles of the rat ovary. Mayerhofer A, et al. **Endocrinology** 1997 Aug; 138(8):3320–9

Direct actions of kit-ligand on theca cell growth and differentiation during follicle development. Parrott JA, et al. **Endocrinology** 1997 Sep;138(9):3819–27

The late induction of prostaglandin G/H synthase-2 in equine preovulatory follicles supports its role as a determinant of the ovulatory process [see comments] Sirois J, et al. **Endocrinology** 1997 Oct;138(10):4427–34. Comment in: Endocrinology 1997 Oct;138(10):4047–8.

Selective expression of insulin-like growth factor system components during porcine ovary follicular selection. Zhou J, et al. **Endocrinology** 1996 Nov;137(11):4893–901

Overview of ovarian follicular development: considerations for the toxicologist. Hirshfield AN. **Environ Mol Mutagen** 1997;29(1):10–5 (17 ref.)

No effect of voluntary exercise on ovarian follicle in rats. Kagabu S, et al. **Exp Anim** 1997 Jul;46(3):247–50

Detection of immunoreactive interleukin-11 in human follicular fluid: correlations with ovarian steroid, insulin-like growth factor I levels, and follicular maturity. Branisteanu I, et al. **Fertil Steril** 1997 Jun;67(6):1054–8

Growth hormone enhances estradiol production follicle-stimulating hormone-induced in the early stage of the follicular maturation. Lanzone A, et al. **Fertil Steril** 1996 Dec;66(6):948–53

Luteinized unruptured follicle and IVF—significance? [letter; comment] Marik JJ. **Fertil Steril** 1996 Nov;66(5):858–9. Comment on: Fertil Steril 1996 Mar;65(3):603–7.

Intracervical and fundal administration of levonorgestrel for contraception: endometrial thickness, patterns of bleeding, and persisting ovarian follicles. Pakarinen PI, et al. **Fertil Steril** 1997 Jul;68(1):59–64

Incongruent follicular development reduces gamete intrafallopian transfer pregnancy rate. Rombauts L, et al. **Fertil Steril** 1996 Dec;66(6):987–90

Suppression of apoptosis by gonadotropin, 17beta-estradiol, and epidermal growth factor in rainbow trout preovulatory ovarian follicles. Janz DM, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):186–93

Ovarian follicular kinetics in response to enucleation and parietal shielding in Rana cyanophlyctis. Udaykumar K, et al. **Gen Comp Endocrinol** 1996 Sep;103(3):244–8

Changes in localization of ovarian immunoreactive estrogen receptor during follicular development in hens. Yoshimura Y, et al. **Gen Comp Endocrinol** 1995 Dec;100(3):368–71

Immunohistochemical localization of basic fibroblast growth factor (bFGF) during folliculogenesis in the human ovary. Yamamoto S, et al. **Gynecol Endocrinol** 1997 Aug; 11(4):223–30

Granulosa cells express integrin alpha 6: possible involvement of integrin alpha 6 in folliculogenesis. Fujiwara H, et al. **Horm Res** 1996;46 Suppl 1:24–30

Physiological role of insulin-like-growth-factor-binding protein-4 in human folliculogenesis. Iwashita M, et al. **Horm Res** 1996;46 Suppl 1:31–6

Role of macrophages in ovarian follicular development. Katabuchi H, et al. **Horm Res** 1996;46 Suppl 1:45–51

Regulation of follicle-stimulating hormone receptor. Minegishi T, et al. **Horm Res** 1996;46 Suppl 1:37–44

Insulin-like growth factor-binding proteins and ovarian folliculogenesis. Monget P, et al. **Horm Res** 1996; 45(3–5):211–7 (35 ref.)

A morphological and functional study of the effect of slow freezing followed by complete in-vitro maturation of primary mouse ovarian follicles. Cortvrindt R, et al. **Hum Reprod** 1996 Dec;11(12):2648–55

Contralateral selection of dominant follicle favours pre-embryo development. Fukuda M, et al. **Hum Reprod** 1996 Sep;11(9):1958–62

Graafian follicles are cooler than neighbouring ovarian tissues and deep rectal temperatures. Hunter RH, et al. **Hum Reprod** 1997 Jan;12(1):95–100

Supraphysiological serum relaxin concentration during pregnancy achieved by in-vitro fertilization is strongly correlated to the number of growing follicles in the treatment cycle. Kristiansson P, et al. **Hum Reprod** 1996 Sep;11(9):2036–40

Treatment-related chromosome abnormalities in human embryos. Munne S, et al. **Hum Reprod** 1997 Apr; 12(4):780–4

Cell-specific localization of nitric oxide synthases (NOS) in the rat ovary during follicular development, ovulation and luteal formation. Zackrisson U, et al. **Hum Reprod** 1996 Dec;11(12):2667–73

Follicular development and oocyte maturation in hypogonadotrophic women employing recombinant follicle-stimulating hormone: the role of oestradiol. Fauser BC. **Hum Reprod Update** 1997 Mar–Apr;3(2):101–8 (57 ref.)

Oestrogens and follicular and oocyte development. Pellicer A. **Hum Reprod Update** 1997 Mar–Apr;3(2):93–4 (23 ref.)

Characteristics of proteoglycans of buffalo ovarian follicular fluid during maturation of follicles. Boushehri I, et al. **Indian J Biochem Biophys** 1996 Jun;33(3):213–7

Ion channels and membrane receptors in follicle-enclosed Xenopus oocytes. Arellano RO, et al. **Ion Channels** 1996; 4:203–59 (130 ref.)

Relationship of fertility to patterns of ovarian follicular development and associated hormonal profiles in dairy cows and heifers. Cooperative Regional Research Project. **J Anim Sci** 1996 Aug;74(8):1943–52

Effect of dietary energy restriction on follicular development and luteal function in nonlactating beef cows. Burns PD, et al. **J Anim Sci** 1997 Apr;75(4):1078–86

Prolonged increased concentrations of 17beta-estradiol associated with development of persistent ovarian follicles do not influence conception rates in beef cattle. Fike KE, et al. **J Anim Sci** 1997 May;75(5):1363–7

The recruitment of ovarian follicles is enhanced by increased dietary intake in heifers. Gutiérrez CG, et al. **J Anim Sci** 1997 Jul;75(7):1876–84

Progestin and estrogen regulation of pulsatile LH release and development of persistent ovarian follicles in cattle. Kinder JE, et al. **J Anim Sci** 1996 Jun;74(6):1424–40 (66 ref.)

Effects of dietary fat and season on steroid hormonal profiles before parturition and on hormonal, cholesterol, triglycerides, follicular patterns, and postpartum reproduction in Brahman cows. Lammoglia MA, et al. **J Anim Sci** 1996 Sep;74(9):2253–62

Effects of dietary fat on follicular development and circulating concentrations of lipids, insulin, progesterone, estradiol-17 beta, 13,14-dihydro-15-keto-prostaglandin F(2 alpha), and growth hormone in estrous cyclic Brahman cows. Lammoglia MA, et al. **J Anim Sci** 1997 Jun; 75(6):1591–600

Persistence of the dominant follicle during melengestrol acetate administration and its regression by exogenous estrogen treatment in beef cattle. Yelich JV, et al. **J Anim Sci** 1997 Mar;75(3):745–54

An open multicenter study to compare the efficacy of intraperitoneal insemination and intrauterine insemination following multiple follicular development as treatment for unexplained infertility. Ajossa S, et al. **J Assist Reprod Genet** 1997 Jan;14(1):15–20

Reproductive aging: accelerated ovarian follicular development associated with a monotropic follicle-stimulating hormone rise in normal older women. Klein NA, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1038–45

Evidence for the oligoclonal origin of the granulosa cell population of the mature human follicle. Van Deerlin PG, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3019–24

Programmed cell death in human ovary is a function of follicle and corpus luteum status. Yuan W, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3148–55

Follicular function in lactating dairy cows treated with sustained-release bovine somatotropin. Kirby CJ, et al. **J Dairy Sci** 1997 Feb;80(2):273–85

Modulation of the insulin-like growth factor-binding proteins by follicle size in the human ovary. Cwyfan Hughes S, et al. **J Endocrinol** 1997 Jul;154(1):35–43

Induction of apoptosis in rat thecal/interstitial cells by transforming growth factor alpha plus transforming growth factor beta in vitro. Foghi A, et al. **J Endocrinol** 1997 Apr; 153(1):169–78

Activation of protein kinase A and protein kinase C mediates the depolarising effect of LH in ovine cumulus-corona cells. Mattioli M, et al. **J Endocrinol** 1996 Sep;150(3):445–56

The expression of c-myc during follicular growth and luteal formation in the rat ovary in vivo. Piontkewitz Y, et al. **J Endocrinol** 1997 Mar;152(3):395–406

Studies in vivo and in vitro on the initiation of follicle growth in the bovine ovary. Braw-Tal R, et al. **J Reprod Fertil** 1997 Jan;109(1):165–71

Role of antral follicle development and cumulus cells on in vitro fertilization of mouse oocytes. Cecconi S, et al. **J Reprod Fertil** 1996 Jul;107(2):207–14

Preovulatory follicle development and ovulation in the brushtail possum (Trichosurus vulpecula) monitored by repeated laparoscopy. Crawford JL, et al. **J Reprod Fertil** 1997 Jul;110(2):361–70

Follicular growth pattern in cyclic rats from late pro-oestrus to early oestrus. Gaytán F, et al. **J Reprod Fertil** 1997 May; 110(1):153–9

Relationships between FSH and ovarian follicular waves during the last six months of pregnancy in cattle. Ginther OJ, et al. **J Reprod Fertil** 1996 Nov;108(2):271–9

Enhancement of ovarian follicle development in heifers by treatment with recombinant bovine somatotrophin: a dose-response study. Gong JG, et al. **J Reprod Fertil** 1997 May;110(1):91–7

Localization of laminin proteins during early follicular development in pig and rabbit ovaries. Lee VH, et al. **J Reprod Fertil** 1996 Sep;108(1):115–22

Ovarian follicular dynamics in ewes during the transition from anoestrus to the breeding season. Ravindra JP, et al. **J Reprod Fertil** 1997 Jul;110(2):279–89

Follicular dynamics and ovarian steroid secretion in sheep during anoestrus. Souza CJ, et al. **J Reprod Fertil** 1996 Sep;108(1):101–6

Significance of oestradiol for follicular development in hypogonadotrophic immature rats treated with FSH and hCG. Uilenbroek JT, et al. **J Reprod Fertil** 1997 Jul; 110(2):231–6

Impact of different patterns of feed intake during lactation in the primiparous sow on follicular development and oocyte maturation. Zak LJ, et al. **J Reprod Fertil** 1997 May; 110(1):99–106

Use of a specific aromatase inhibitor for determining whether there is a role for oestrogen in follicle/oocyte maturation, ovulation and preimplantation embryo development. Moudgal NR, et al. **J Reprod Fertil Suppl** 1996;50:69–81

Follicular maturation and atresia—possible role of intraovarian regulatory factors. Mukhopadhyay AK, et al. **J Reprod Fertil Suppl** 1996;50:105–12

Regulation of follicular maturation by human ovarian follicular fluid peptide. Nandedkar TD, et al. **J Reprod Fertil Suppl** 1996;50:95–104

Follicular development through preantral stages: signalling via growth factors. Roy SK, et al. **J Reprod Fertil Suppl** 1996;50:83–94

Plasminogen activator activity in the bovine oocyte-cumulus complex and early embryo. Yamada M, et al. **J Vet Med Sci** 1996 Apr;58(4):317–22

In vitro fertilization of follicular oocytes by frozen-thawed spermatozoa in Japanese monkeys (Macaca fuscata). Sankai T, et al. **Lab Anim Sci** 1997 Feb;47(1):58–62

Effect of follicle size and quality on the ability of follicular fluid to support cytoplasmic maturation of bovine oocytes. Carolan C, et al. **Mol Reprod Dev** 1996 Apr;43(4):477–83

Follicle stimulating hormone is required for ovarian follicle maturation but not male fertility. Kumar TR, et al. **Nat Genet** 1997 Feb;15(2):201–4

Growth differentiation factor-9 is required during early ovarian folliculogenesis [see comments] Dong J, et al. **Nature** 1996 Oct 10;383(6600):531–5. Comment in: Nature 1996 Oct 10;383(6600):485–6.

Reproductive biology. The vocabulary of the egg [news; comment] Gosden R. **Nature** 1996 Oct 10;383(6600):485–6 . Comment on: Nature 1996 Oct 10;383(6600):531–6.

Female infertility in mice lacking connexin 37. Simon AM, et al. **Nature** 1997 Feb 6;385(6616):525–9

Relationship of ovarian stromal blood flow at the baseline ultrasound scan to subsequent follicular response in an in vitro fertilization program. Zaidi J, et al. **Obstet Gynecol** 1996 Nov;88(5):779–84

Haemolymph from female beetles infected with Hymenolepis diminuta metacestodes retards the development of ovarian follicles in recipient Tenebrio molitor (Coleoptera). Major M, et al. **Parasitology** 1997 Feb;114 (Pt 2):175–9

Alkaline phosphatase activity in the theca of ovarian follicles of the hen throughout follicular development. Chapeau C, et al. **Poult Sci** 1996 Dec;75(12):1536–45

Protein sources affect follicular dynamics in ewes near the onset of the breeding season. Landau S, et al. **Reprod Fertil Dev** 1996;8(6):1021–8

Control and management of ovarian follicles in cattle to optimize fertility. Thatcher WW, et al. **Reprod Fertil Dev** 1996;8(2):203–17 (67 ref.)

Follicular and luteal progesterone synergize to maintain 5-day cyclicity in rats. Sánchez-Criado JE, et al. **Rev Esp Fisiol** 1996 Dec;52(4):223–9

Growth factors in ovarian follicle atresia. Chun SY, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):197–202 (39 ref.)

Physiologic basis of ovulation induction. Erickson GF. **Semin Reprod Endocrinol** 1996 Nov;14(4):287–97 (287 ref.)

Growth factors in normal ovarian follicle development. Giudice LC, et al. **Semin Reprod Endocrinol** 1996 Aug; 14(3):179–96 (255 ref.)

Follicular dominance and oocyte maturation. Campbell BK, et al. **Zygote** 1996 Nov;4(4):327–34 (60 ref.)

Intra-ovarian regulation of oocyte developmental competence in cattle. Gandolfi F. **Zygote** 1996 Nov; 4(4):323–6 (37 ref.)

Cumulus expansion initiates physical and developmental autonomy of the oocyte. Larsen WJ, et al. **Zygote** 1996 Nov;4(4):335–41

Antral follicles confer developmental competence on oocytes. Moor RM, et al. **Zygote** 1996 Nov;4(4):289–93 (11 ref.)

[Follicular maturation, dizygotic twin conceptions and maternal age] Lazar P. **C R Acad Sci III** 1996 Dec; 319(12):1139–44 (Eng. Abstr.) **(Fre)**

[The dynamics of the somatotropin content in the follicular fluid during maturation and atresia of the antral follicles in bovine ovaries] Lebedeva IIu, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov;82(10–11):91–7 (Eng. Abstr.) **(Rus)**

[The effect of the selection of Mustela vison mink for behavior on their folliculogenesis and reproductive function] Klochkov DV, et al. **Zh Evol Biokhim Fiziol** 1996 Sep–Oct;32(5):620–8 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Effect of exposure to continuous light and melatonin on ovarian follicular kinetics in the skipper frog, Rana cyanophlyctis. Udaykumar K, et al. **Biol Signals** 1997 Mar–Apr;6(2):62–6

SECRETION

Depletion of insulin in streptozocin-induced-diabetic pigs alters estradiol, insulin-like growth factor (IGF)-I and IGF binding proteins in cultured ovarian follicles. Edwards JL, et al. **Biol Reprod** 1996 Oct;55(4):775–81

Follicle and extrafollicular tissue interaction in 17alpha,20beta-dihydroxy-4-pregnen-3-one-stimulated ovulation and prostaglandin synthesis in the yellow perch (Perca flavescens) ovary. Goetz FW. **Gen Comp Endocrinol** 1997 Jan;105(1):121–6

Role of secreted proteins and gonadotrophins in promoting full maturation of porcine oocytes in vitro. Liu L, et al. **Mol Reprod Dev** 1997 Jun;47(2):191–9

SURGERY

Selective follicular reduction: what to do with the oocytes? Zusterzeel PL, et al. **Int J Fertil Menopausal Stud** 1996 Nov–Dec;41(6):506–8

ULTRASONOGRAPHY

Measurement error—"how much of a difference does it take to make a difference"? [letter; comment] [see comments] Wang ST, et al. **Fertil Steril** 1997 Apr;67(4):789. Comment on: Fertil Steril 1996 Feb;65(2):371–6. Comment in: Fertil Steril 1997 Apr;67(4):790–1.

Follicular vascularity—the predictive value of transvaginal power Doppler ultrasonography in an in-vitro fertilization programme: a preliminary study. Chui DK, et al. **Hum Reprod** 1997 Jan;12(1):191–6

Ultrasound derived indices of follicular blood flow before HCG administration and the prediction of oocyte recovery and preimplantation embryo quality. Nargund G, et al. **Hum Reprod** 1996 Nov;11(11):2512–7

Pretreatment transvaginal ultrasound examination predicts ovarian responsiveness to gonadotrophins in in-vitro fertilization. Tomas C, et al. **Hum Reprod** 1997 Feb; 12(2):220–3

Sonographically monitored ovarian stimulation for assisted reproduction: a prospective, blind study. Confino E, et al. **J Reprod Med** 1996 Jan;41(1):7–10

Ultrasonic observations on the turnover of ovarian follicular cysts and associated changes of plasma LH, FSH, progesterone and oestradiol-17 beta in cows. Yoshioka K, et al. **Res Vet Sci** 1996 Nov;61(3):240–4

Transvaginal aspiration. Squires EL, et al. **Vet Clin North Am Equine Pract** 1996 Apr;12(1):13–29 (42 ref.)

ULTRASTRUCTURE

Ultrastructure of bovine ovarian follicles induced to extended growth by perioestrous suprabasal progesterone levels. Duchens M, et al. **Acta Vet Scand** 1996;37(3):239–50

Oocyte ultrastructure in bovine primordial to early tertiary follicles. Fair T, et al. **Anat Embryol (Berl)** 1997 Apr; 195(4):327–36

Analysis of atresia in bovine follicles using different methods: flow cytometry, enzyme-linked immunosorbent assay, and classic histology. Blondin P, et al. **Biol Reprod** 1996 Mar; 54(3):631–7

Morphological characterization of bovine primordial follicles and their environment in vivo. van Wezel IL, et al. **Biol Reprod** 1996 Nov;55(5):1003–11

Ultrastructural localization of intracellular calcium stores in Xenopus ovarian follicles as revealed by cytochemistry and X-ray microanalysis. Bertout M, et al. **Dev Growth Differ** 1997 Apr;39(2):249–56

A morphological and functional study of the effect of slow freezing followed by complete in-vitro maturation of primary mouse ovarian follicles. Cortvrindt R, et al. **Hum Reprod** 1996 Dec;11(12):2648–55

Ultrastructure of human reproduction from folliculogenesis to early embryo development. A review. Motta PM, et al. **Ital J Anat Embryol** 1995 Oct–Dec;100(4):9–72 (143 ref.)

GRADUATE RECORDS EXAMINATION

GRADUATE RECORDS EXAMINATION see **EDUCATIONAL MEASUREMENT**

GRAFFI VIRUS see **LEUKEMIA VIRUSES, MURINE**

GRAFFI'S CHLOROLEUKEMIC STRAIN see **LEUKEMIA VIRUSES, MURINE**

GRAFT ENHANCEMENT, IMMUNOLOGIC

A synthetic CD4-CDR3 peptide analog enhances bone marrow engraftment across major histocompatibility barriers. Koch U, et al. **Blood** 1997 Apr 15;89(8):2880–90

A model for human B-chronic lymphocytic leukemia in human/mouse radiation chimera: evidence for tumor-mediated suppression of antibody production in low-stage disease. Shimoni A, et al. **Blood** 1997 Mar 15; 89(6):2210–8

Donor-derived plasma transferrin facilitates the engraftment of xenogeneic (rat) bone marrow in irradiated mice [published erratum appears in Bone Marrow Transplant 1996 Dec;18(6):1201] Pierpaoli W, et al. **Bone Marrow Transplant** 1996 Jul;18(1):203–7

Prolongation of survival of alloskin grafts with no concurrent general suppression of the burned patient's immune system: a preliminary clinical investigation. Wu J, et al. **Burns** 1996 Aug;22(5):353–8

Blocking the CD28–B7 T cell costimulation pathway induces long term cardiac allograft acceptance in the absence of IL-4. Lakkis FG, et al. **J Immunol** 1997 Mar 1; 158(5):2443–8

Good engraftment of B-cell precursor ALL in NOD-SCID mice. Baersch G, et al. **Klin Padiatr** 1997 Jul–Aug; 209(4):178–85

Augmentation of random-flap survival by implantation of vascularized fascia allografts and temporary immunosuppression: implications for flap fabrication. Ozcan G, et al. **Plast Reconstr Surg** 1997 May;99(6):1666–74

Cellular mechanisms of adaptation of grafts to antibody. Andres G, et al. **Transpl Immunol** 1996 Mar;4(1):1–17 (179 ref.)

Long-term engraftment of precultured post-5-fluorouracil allogeneic marrow in mice conditioned with a nonmyeloablative regimen: relevance for a gene therapy approach to tolerance induction. Hayashi H, et al. **Transpl Immunol** 1996 Mar;4(1):86–90

Donor-specific transfusions enhance the immunosuppressive effects of single-dose cyclosporine A and CTLA4-Ig but do not result in long-term graft acceptance in a histoincompatible model of rat lung allograft rejection. Jordan SC, et al. **Transpl Immunol** 1996 Mar;4(1):33–7

An anti-CD44 antibody does not enhance engraftment of DLA-identical marrow after low-dose total body irradiation. Sandmaier BM, et al. **Transpl Immunol** 1996 Dec;4(4):271–4

Strain-dependent differences in prolongation of rat cardiac allograft survival after intrathymic injection of donor bone marrow and ALS treatment. Walker KG, et al. **Transpl Immunol** 1996 Jun;4(2):177–9

Synergistic effect of donor-specific blood transfusion and a short course of deoxyspergualin in rat kidney transplantation. Tanabe K, et al. **Transpl Int** 1996;9(4):353–8

Superiority of sirolimus (rapamycin) over cyclosporine in augmenting allograft and xenograft survival in mice treated with antilymphocyte serum and donor-specific bone marrow. Hale DA, et al. **Transplantation** 1997 Feb 15; 63(3):359–64

METHODS

Specific tolerance induction and transplantation: a single-day protocol. de Vries-van der Zwan A, et al. **Blood** 1997 Apr 1;89(7):2596–601

Donor gamma delta T lymphocytes promote allogeneic engraftment across the major histocompatibility barrier in mice. Drobyski WR, et al. **Blood** 1997 Feb 1;89(3):1100–9

Enhancement of thyroid allograft survival following organ culture: II. Induction of recipient peripheral tolerance. Hullett DA, et al. **Hum Immunol** 1997 Feb;52(2):127–37

Distinct mechanisms for the induction and maintenance of allograft tolerance with CTLA4-Fc treatment. Tran HM, et al. **J Immunol** 1997 Sep 1;159(5):2232–9

Unresponsiveness to human leukocytes in immunosuppressed mice by combined donor-derived human transferrin and antigens. Pierpaoli W, et al. **Transpl Immunol** 1996 Dec; 4(4):301–8

GRAFT OCCLUSION, VASCULAR

Comparison of stenting and balloon angioplasty for narrowings in aortocoronary saphenous vein conduits in place for more than five years. Brener SJ, et al. **Am J Cardiol** 1997 Jan 1;79(1):13–8

Vascular access survival among incident hemodialysis patients in the United States. Woods JD, et al. **Am J Kidney Dis** 1997 Jul;30(1):50–7

Angiographic correlates of graft patency and relationship to clinical outcomes. Alderman EL. **Ann Thorac Surg** 1996 Nov;62(5 Suppl):S22–5; discussion S31–2

Accelerated aortic allograft fibrocalcification after right ventricular outflow tract reconstruction in pediatric patients: report of two cases. Santini F, et al. **Eur J Cardiothorac Surg** 1996;10(4):290–3

Graft surveillance and angioplasty prolongs dialysis graft patency. Roberts AB, et al. **J Am Coll Surg** 1996 Nov; 183(5):486–92

Anesthesia type does not influence early graft patency or limb salvage rates of lower extremity arterial bypass. Pierce ET, et al. **J Vasc Surg** 1997 Feb;25(2):226–32; discussion 232–3

BLOOD

Activated protein C resistance, factor V Leiden and peripheral vascular disease. Foley PW, et al. **Cardiovasc Surg** 1997 Apr;5(2):157–60

Platelet activation and restenosis after coronary stenting: flow cytometric detection of wound-induced platelet activation. Markovitz JH, et al. **Coron Artery Dis** 1996 Sep;7(9):657–65

Early coronary artery bypass graft thrombosis in a patient with protein S deficiency. De Paulis R, et al. **Eur J Cardiothorac Surg** 1996;10(6):470–2

CHEMICALLY INDUCED

Heparin-related thrombosis despite normal platelet counts in vascular surgery. Hach-Wunderle V, et al. **Am J Surg** 1997 Feb;173(2):117–9

Aprotinin in aortocoronary bypass surgery: increased risk of vein-graft occlusion and myocardial infarction? Supportive evidence from a retrospective study. van der Meer J, et al. **Thromb Haemost** 1996 Jan;75(1):1–3

COMPLICATIONS

Acute occlusion of a left internal mammary artery graft immediately after redo coronary artery bypass surgery: successful rescue PTCA. Khurana S, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):166–9

Role of activation-dependent platelet membrane glycoproteins in development of subacute occlusive coronary stent thrombosis. Gawaz M, et al. **Coron Artery Dis** 1997 Mar–Apr;8(3–4):121–8

Exercise-induced syncope as late consequence of radiotherapy. de Waard DE, et al. **Int J Cardiol** 1996 Dec 13;57(3):289–91

Hepatic artery thrombosis as a complication of amputation neuroma of the liver graft hilum [letter] Gonzalez-Pinto I, et al. **Transpl Int** 1997;10(5):405–6

DIAGNOSIS

Stenosis of transjugular intrahepatic portosystemic shunts: presentation and management. Sterling KM, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):239–44

Contrast-enhanced breath-hold MR angiography for evaluating patency of coronary artery bypass grafts. Vrachliotis TG, et al. **AJR Am J Roentgenol** 1997 Apr; 168(4):1073–80

Hemodialysis access blood flow rates can be measured by a differential conductivity technique and are predictive of access clotting. Lindsay RM, et al. **Am J Kidney Dis** 1997 Oct;30(4):475–82

Beneficial impact of aorto-coronary graft markers on post-operative angiography. Eisenhauer MD, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):249–53; discussion 254

Efficacy of angioscopy in determining the effectiveness of intracoronary urokinase and TEC atherectomy thrombus removal from an occluded saphenous vein graft prior to stent implantation [see comments] Kaplan BM, et al. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):335–7. Comment in: Cathet Cardiovasc Diagn 1995 Dec;36(4):338.

Shunt insufficiency after transjugular intrahepatic portosystemic stent-shunt: the whens, whys, hows and what should we do about it? [editorial] Jalan R, et al. **Clin Radiol** 1997 May;52(5):329–31

Routine coronary angiography after heart transplantation [editorial] Grant SC, et al. **Heart** 1997 Aug;78(2):101–2

Surveillance cardiac catheterisation in heart transplant recipients [editorial] Kim CB, et al. **Heart** 1997 Aug; 78(2):103–4

Clinical importance of measuring coronary graft flows in the revascularized heart. Ultrasonic or electromagnetic? Canver CC, et al. **J Cardiovasc Surg (Torino)** 1997 Jun; 38(3):211–5

Magnetic resonance imaging evaluation of the ascending aorta after graft-inclusion surgery: comparison between an ultrafast contrast-enhanced MR sequence and conventional cine-MRI. Loubeyre P, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):478–83

New approach to patency and flow assessment after left internal thoracic artery hypoperfusion syndrome with additional saphenous vein graft to the left anterior descending artery with phase-contrast magnetic resonance angiography. Zünd G, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):428–33

Screening for dialysis access graft malfunction: comparison of physical examination with US. Trerotola SO, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):15–20

DRUG THERAPY

Pattern of dispersion from a pulse-spray catheter for delivery of thrombolytic agents: design, theory, and results. Cho KJ, et al. **Acad Radiol** 1997 Mar;4(3):210–6

Thrombolysis of infrapopliteal bypass grafts: efficacy and underlying angiographic pathology. Spence LD, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):717–21

Pulsed transthrombotic fibrinolysis: technique and results in the management of occluded lower limb bypass grafts. Payelle G, et al. **Ann Vasc Surg** 1997 Mar;11(2):159–64

Extravasation of thrombus into the aortic root: a complication following use of an infusion catheter for intragraft thrombolysis [see comments] Caputo RP, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):263–6. Comment in: Cathet Cardiovasc Diagn 1996 Mar;37(3):267. Comment in: Cathet Cardiovasc Diagn 1996 Aug;38(4):442.

Treatment of thrombotic saphenous vein bypass grafts using local urokinase infusion therapy with the Dispatch catheter. Glazier JJ, et al. **Cathet Cardiovasc Diagn** 1997 Jul; 41(3):261–7

No-reflow no more? [editorial; comment] Kahn JK, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):119. Comment on: Cathet Cardiovasc Diagn 1996 Oct;39(2):113–8.

Treatment of no-reflow in degenerated saphenous vein graft interventions: comparison of intracoronary verapamil and nitroglycerin [see comments] Kaplan BM, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):113–8. Comment in: Cathet Cardiovasc Diagn 1996 Oct;39(2):119.

Urokinase recanalization of chronically occluded aortocoronary vein grafts. Hartmann JR. **Coron Artery Dis** 1996 Sep;7(9):641–8 (32 ref.)

Hemodialysis graft declotting: description of the "lyse and wait" technique. Cynamon J, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):825–9

Admixture of heparin with urokinase to decrease thrombolysis time and urokinase dose in polytetrafluoroethylene dialysis graft recanalization. Harrell DS, et al. **J Vasc Interv Radiol** 1996 Mar–Apr; 7(2):193–7

Local delivery of heparin with balloon angioplasty: results of a prospective randomized trial. Sheley RC, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):853–8

Thrombolysis of occluded infrainguinal vein grafts: predictors of outcome. Nackman GB, et al. **J Vasc Surg** 1997 Jun;25(6):1023–31; discussion 1031–2

Effective streptokinase treatment of blocked catheters in pigs and sheep. Leuvenink HG, et al. **Lab Anim** 1997 Apr; 31(2):184–5

[Local intra-arterial thrombolysis. Results in arterial thromboses and graft occlusions] Hansen AK, et al. **Ugeskr Laeger** 1997 Mar 24;159(13):1950–3 (Eng. Abstr.) **(Dan)**

EPIDEMIOLOGY

Correlates of vascular access and nonvascular access-related hospitalizations in hemodialysis patients. Ifudu O, et al. **Am J Nephrol** 1996;16(2):118–23

The internal mammary artery malperfusion syndrome: late angiographic verification. Gaudino M, et al. **Ann Thorac Surg** 1997 May;63(5):1257–61

Measurement of vascular input impedance in infrainguinal vein grafts. Schwartz LB, et al. **Ann Vasc Surg** 1997 Jan; 11(1):35–43

The role of profunda femoris revascularization in aortofemoral surgery. An analysis of factors affecting graft patency. Bastounis E, et al. **Int Angiol** 1997 Jun; 16(2):107–13

Comparison of survival of an expanded polytetrafluoroethylene graft designed for early cannulation to standard wall polytetrafluoroethylene grafts. Coyne DW, et al. **J Am Coll Surg** 1996 Oct;183(4):401–5

Long-term outcome after early infrainguinal graft failure. Robinson KD, et al. **J Vasc Surg** 1997 Sep;26(3):425–37; discussion 437–8

ETIOLOGY

Identification of predictors for lower extremity vein graft stenosis. Gentile AT, et al. **Am J Surg** 1997 Aug; 174(2):218–21

Neo-intimal hyperplasia in vascular grafts and its implications for autologous arterial grafting. Purcell C, et al. **Ann R Coll Surg Engl** 1997 May;79(3):164–8 (43 ref.)

Four-layer compression bandaging [letter] Price M. **Br J Dermatol** 1996 Oct;135(4):653–4

Late stenosis of an aortorenal bypass graft fashioned from pericardium. Ilyas M, et al. **Clin Nephrol** 1996 Aug; 46(2):139–40

Hemodialysis vascular access: emerging concepts. Himmelfarb J, et al. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):485–91 (43 ref.)

Hyperhomocysteinaemia is a risk factor for vein graft stenosis. Irvine C, et al. **Eur J Vasc Endovasc Surg** 1996 Oct;12(3):304–9

Early vein bypass thrombectomy is associated with an increased risk of graft related stenoses. Nielsen TG, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):134–8

Allograft conduit wall calcification in a model of chronic arterial graft rejection. Yankah AC, et al. **J Card Surg** 1997 Mar–Apr;12(2):86–92

Arteriovenous obstruction of arm due to venovenous bypass during liver transplantation. Neelakanta G, et al. **J Clin Anesth** 1997 Sep;9(6):507–9

Comparison of the effects of mechanical stimulation on venous and arterial smooth muscle cells in vitro. Dethlefsen SM, et al. **J Vasc Res** 1996 Sep–Oct;33(5):405–13

Natural history of infrainguinal vein graft stenosis relative to bypass grafting technique. Gupta AK, et al. **J Vasc Surg** 1997 Feb;25(2):211–20; discussion 220–5

Acquired protein S and antithrombin III deficiency caused by nephrotic syndrome: an unusual cause of graft thrombosis. Siddiqi FA, et al. **J Vasc Surg** 1997 Mar; 25(3):576–80

Thrombogenicity of small-diameter prosthetic grafts: relative contributions of graft-associated thrombin and factor Xa. Toursarkissian B, et al. **J Vasc Surg** 1997 Apr;25(4):730–5

Failure patterns of cryopreserved vein grafts in liver transplantation. Kuang AA, et al. **Transplantation** 1996 Sep 27;62(6):742–7 (21 ref.)

Portal vein thrombosis and stenosis in pediatric liver transplantation. Millis JM, et al. **Transplantation** 1996 Sep 27;62(6):748–54 (24 ref.)

METABOLISM

Molecular and cell biology of native coronary and vein–graft atherosclerosis: regulation of plaque stability and vessel–wall remodelling by growth factors and cell–extracellular matrix interactions. Newby AC. **Coron Artery Dis** 1997 Mar–Apr;8(3–4):213–24 (76 ref.)

MORTALITY

The influence of age on the results of reoperative coronary artery bypass grafting. Christenson JT, et al. **Coron Artery Dis** 1997 Feb;8(2):91–6

How serious is a proximal occlusion of a posterolateral sequential bypass? Christenson JT, et al. **Tex Heart Inst J** 1996;23(3):201–6

PATHOLOGY

Visualization of vortex shedding at the proximal side–to–end artery–graft anastomosis. Hughes PE, et al. **Biorheology** 1996 Jul–Oct;33(4–5):305–17

Vein morphology and bypass graft stenosis. Varty K, et al. **Br J Surg** 1996 Oct;83(10):1375–9

Ultrastructural features of progressive intimal hyperplasia at the distal end–to–side anastomosis of vein grafts. Shiroma H, et al. **Cardiovasc Surg** 1996 Jun;4(3):393–8

Anastomotic intimal hyperplasia: a comparison between conventional and endovascular stent graft techniques. Ohki T, et al. **J Surg Res** 1997 May;69(2):255–67

Immunocytochemical determination of cell type and proliferation rate in human vein graft stenoses. Westerband A, et al. **J Vasc Surg** 1997 Jan;25(1):64–73

[Insertion of autografts after acute damage of the common carotid artery. Experimental microvascular anastomoses after balloon dilatation] Friedrich RE, et al. **Unfallchirurgie** 1997 Feb;23(1):1–9 (Eng. Abstr.) **(Ger)**

[Heterogeneity of smooth muscle cells and intima thickening of various genesis and in organized thrombi] Shekhonin BV, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):222–7 **(Rus)**

PHYSIOPATHOLOGY

Vascular biology of coronary artery bypass conduits: new solutions to old problems? Bryan AJ, et al. **Adv Card Surg** 1996;8:47–80 (182 ref.)

An arginine analog inhibits responses of both the endothelium and smooth muscle of canine in situ vein grafts. Rhee RY, et al. **Cardiovasc Surg** 1997 Apr;5(2):169–75

Postocclusive reactive hyperemia estimating peripheral vascular resistance: a noninvasive method to predict outcome of infrainguinal vascular reconstructions? Wahlberg E, et al. **J Cardiovasc Surg (Torino)** 1996 Dec; 37(6):545–52

Hemodynamic impact of vein graft stenoses and their prediction in the vascular laboratory. Belkin M, et al. **J Vasc Surg** 1997 Jun;25(6):1016–21; discussion 1022

Arteriovenous fistulas aggravate the hemodynamic effect of vein bypass stenoses: an in vitro study. Nielsen TG, et al. **J Vasc Surg** 1996 Dec;24(6):1043–9

Measurements of tissue blood flow by the hydrogen clearance technique (HCT): a comparative study including laser Doppler flowmetry (LDF) and the Erlangen micro–lightguide spectrophotometer (EMPHO). Machens HG, et al. **Microsurgery** 1995;16(12):808–17

PREVENTION & CONTROL

Phosphorylcholine coating of ePTFE grafts reduces neointimal hyperplasia in canine model. Chen C, et al. **Ann Vasc Surg** 1997 Jan;11(1):74–9

Potential advantages of treatment of transplanted saphenous vein aorto–coronary artery bypass grafts with beta irradiation to prevent graft occlusion. Smith RG. **Artery** 1997;22(5):278–86 (25 ref.)

Inhibition of fibro–intimal hyperplasia in a polytetrafluoroethylene vascular graft with standard heparin and low molecular weight heparin. Taylor A, et al. **Aust N Z J Surg** 1996 Nov;66(11):764–7

Prospects for prevention of graft stenosis and angioplasty restenosis. Chan P. **Eur J Vasc Endovasc Surg** 1997 May; 13(5):429–31

In vitro endothelialisation of arteriovenous loop grafts for haemodialysis. Swedenborg J, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):272–7

Low–dose cyclosporine treatment fails to prevent coronary luminal narrowing after heart transplantation. Vassalli G, et al. **J Heart Lung Transplant** 1996 Jun;15(6):612–9

Avoiding microvenous thrombosis [letter; comment] Simone C, et al. **J Oral Maxillofac Surg** 1997 Apr;55(4):434. Comment on: J Oral Maxillofac Surg 1996 Sep;54(9):1097–102.

Iloprost in alginate decreases the thrombogenicity of expanded polytetrafluoroethylene. Viscardi PJ, et al. **J Reconstr Microsurg** 1997 May;13(4):303–6

Hemodynamic screening and early percutaneous intervention reduce hemodialysis access thrombosis and increase graft longevity. Sullivan KL, et al. **J Vasc Interv Radiol** 1997 Mar–Apr;8(2):163–70 (45 ref.)

Prophylactic balloon angioplasty fails to prolong the patency of expanded polytetrafluoroethylene arteriovenous grafts: results of a prospective randomized study. Lumsden AB, et al. **J Vasc Surg** 1997 Sep;26(3):382–90; discussion 390–2

'Genetic surgery' for vascular grafts [news] O'Brien C. **Mol Med Today** 1997 Jul;3(7):279

The effect of aggressive lowering of low–density lipoprotein cholesterol levels and low–dose anticoagulation on obstructive changes in saphenous–vein coronary–artery bypass grafts. The Post Coronary Artery Bypass Graft Trial Investigators [see comments] **N Engl J Med** 1997 Jan 16;336(3):153–62. Comment in: N Engl J Med 1997 Jan 16;336(3):212–3. Comment in: N Engl J Med 1997 Jun 19;336(25):1839–40. Comment in: ACP J Club 1997 Jul–Aug;127(1):2.

Prevention of atherosclerosis in coronary–artery bypass grafts [editorial; comment] Fuster V, et al. **N Engl J Med** 1997 Jan 16;336(3):212–3. Comment on: N Engl J Med 1997 Jan 16;336(3):153–62.

Cell adhesion and short–term patency in human endothelium preseeded 1.5–mm polytetrafluoroethylene vascular grafts: an experimental study. Gherardini G, et al. **Plast Reconstr Surg** 1997 Feb;99(2):472–8

The somatostatin analog octreotide as potential treatment for re–stenosis and chronic rejection. Weckbecker G, et al. **Transplant Proc** 1997 Sep;29(6):2599–600

RADIOGRAPHY

Feasibility of ultrafast computed tomography in the early evaluation of coronary bypass patency. Baumgartner F, et al. **Am J Card Imaging** 1996 Jul;10(3):170–4

Noninvasive, three–dimensional visualization of coronary artery bypass grafts by electron beam tomography. Achenbach S, et al. **Am J Cardiol** 1997 Apr 1;79(7):856–61

The predictive value of angiographic results for the outcome of percutaneous transluminal angioplasty in stenosed femoral bypass grafts. Spijkerboer AM, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):98–102

Results of unifocalization for pulmonary atresia, ventricular septal defect and major aortopulmonary collateral arteries: patency of pulmonary vascular segments. Ishizaka T, et al. **Eur J Cardiothorac Surg** 1996;10(5):331–7; discussion 337–8

Comparison of long–term patency of "horseshoe" saphenous vein grafts with and without valves. Lajos TZ, et al. **Eur J Cardiothorac Surg** 1996;10(10):846–51

Angiographic features of vein grafts versus ungrafted coronary arteries in patients with unstable angina and previous bypass surgery. Chen L, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1493–9

[Spiral CT and 3–dimensional reconstruction in evaluation of systemic venous obstruction after atrial switch operation for complete transposition of great vessels] Kaemmerer H, et al. **Z Kardiol** 1996 Oct;85(10):790–7 (Eng. Abstr.) **(Ger)**

[The value of ultrafast computerized tomography in detection of the patency of coronary bypasses] Knez A, et al. **Z Kardiol** 1996 Sep;85(9):629–34 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Adenosine thallium–201 tomography in evaluation of graft patency late after coronary artery bypass graft surgery. Khoury AF, et al. **J Am Coll Cardiol** 1997 May; 29(6):1290–5

SURGERY

Fluoroscopically assisted thromboembolectomy: an improved method for treating acute arterial occlusions. Parsons RE, et al. **Ann Vasc Surg** 1996 May;10(3):201–10

Management of acute vascular graft thrombosis associated with HIT syndrome: a case report. Wilson M, et al. **Aust N Z J Surg** 1997 May;67(5):302–3

Excimer laser angioplasty vs. balloon angioplasty in saphenous vein bypass grafts: quantitative angiographic comparison of matched lesions. Natarajan MK, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):153–8

Arterial autologous graft–stent for treatment of coronary artery disease: a new technique. Stefanadis C, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):302–7 (23 ref.)

Extraction atherectomy for the recanalization of totally occluded aortocoronary saphenous vein grafts. Sullebarger JT, et al. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):339–43

A new thrombosuction catheter for coronary use: initial results with clinical and angiographic follow–up in seven patients. van den Bos AA, et al. **Cathet Cardiovasc Diagn** 1997 Feb;40(2):192–7

Transluminal extraction atherectomy for stent restenosis in a saphenous vein bypass graft [letter] Virk SJ, et al. **Eur Heart J** 1997 Feb;18(2):350–1

Replacement of right ventricle to pulmonary artery and right atrium to right ventricle homograft after a modified Rastelli operation. Amirghofran AA, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):588–90

Failure of gastroepiploic artery graft due to gastroduodenal artery stenosis. Kawasuji M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):790–2

The use of a Perma–Flow graft for coronary artery bypass surgery. Schmid C, et al. **Eur J Cardiothorac Surg** 1996; 10(4):284–6

Hemodialysis access graft stenosis: percutaneous transluminal angioplasty. Lumsden AB, et al. **J Surg Res** 1997 Mar; 68(2):181–5

Percutaneous balloon–assisted aspiration thrombectomy of clotted hemodialysis access grafts. Sharafuddin MJ, et al. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):177–83

Incidence and management of arterial emboli from hemodialysis graft surgical thrombectomy. Trerotola SO, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):557–62

Valvectomy with use of a percutaneous directional atherectomy catheter in failing in situ saphenous vein grafts. Weintraub JL, et al. **J Vasc Interv Radiol** 1997 May–Jun; 8(3):355–8

Reversal of blood flow direction for the salvage of forearm straight and looped ePTFE–shunts. Mickley V, et al. **Vasa** 1996;25(3):257–60

[Service intervention for prevention of recurrence] Schweiger H. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:864–5 (Eng. Abstr.) **(Ger)**

[Superinfection with multi–resistant Staphylococcus aureus of the hand caused by shunt vein occlusion in a dialysis patient] Hoch J, et al. **Zentralbl Chir** 1996;121 Suppl:79–81 **(Ger)**

[Coronary reoperation—selection of conduit material and management of stenotic vein graft] Ozaki S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):1969–75 (Eng. Abstr.) **(Jpn)**

[A case of using PALMAZ–SCHATZ intracoronary stent in patient with nonspecific aortoarteritis] Pavlov NA, et al. **Vestn Rentgenol Radiol** 1997 Jul–Aug;(4):30–3 **(Rus)**

THERAPY

Stenosis of transjugular intrahepatic portosystemic shunts: presentation and management. Sterling KM, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):239–44

Stenting within a stent: treatment for repeat in–stent restenosis in a venous graft. Debbas N, et al. **Am Heart J** 1997 Apr;133(4):460–3

Serial intravascular ultrasound predictors of restenosis at the margins of Palmaz–Schatz stents. Hoffmann R, et al. **Am J Cardiol** 1997 Apr 1;79(7):951–3

Dialysis grafts arterial plug: retrieval using the tulip sheath device in vitro. Sharafuddin MJ, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):154–8

The predictive value of angiographic results for the outcome of percutaneous transluminal angioplasty in stenosed femoral bypass grafts. Spijkerboer AM, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):98–102

Stent placement on fresh venous thrombosis. Vorwerk D, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct; 20(5):359–63

Successful stenting after coumadin therapy and thrombus resolution in a stenotic saphenous vein graft [letter; comment] Chow WH, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):438–9. Comment on: Cathet Cardiovasc Diagn 1996 Aug;38(4):415–6.

Percutaneous bailout therapy of a perforated vein graft using a stent–autologous vein patch [see comments] Colon PJ 3rd, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):175–8. Comment in: Cathet Cardiovasc Diagn 1995 Jun;38(2):179.

Diffuse vasospasm following stenting of a free gastroepiploic artery graft: resolution with balloon angioplasty and intensive medical therapy. Feld S, et al. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):352–5

Recanalization of totally occluded saphenous vein grafts using local urokinase delivery with the Dispatch catheter. Glazier JJ, et al. **Cathet Cardiovasc Diagn** 1995 Dec; 36(4):326–32

Percutaneous revascularization of an extensively diseased saphenous vein bypass graft with a saphenous vein–covered Palmaz stent [see comments] Gurbel PA, et al. **Cathet Cardiovasc Diagn** 1997 Jan;40(1):75–8 (12 ref.). Comment in: Cathet Cardiovasc Diagn 1997 Jan;40(1):79.

Recanalization of occluded SVGs: is there light at the end of the graft? [editorial] Heuser RR. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):333–4

Stents in jackets: the latest in endovascular haute couture [editorial; comment] Heuser RR. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):179. Comment on: Cathet Cardiovasc Diagn 1996 Jun;38(2):175–8.

Implantation of the peripheral Wallstent for diffuse lesions in coronary arteries and vein grafts. Itoh A, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):322–30

"Kissing balloon" technique in percutaneous transluminal coronary angiography: single–guide catheter, dual–wire, dual–balloon system with single inflation device. Krikorian RK, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):331–3

Simultaneous use of a diagnostic catheter to facilitate stent deployment in aorto–ostial artery stenosis: a case report. Lambros J, et al. **Cathet Cardiovasc Diagn** 1997 Feb; 40(2):210–1

Accidental extrication of adherent intragraft thrombus

[editorial; comment] Linnemeler TJ. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):267. Comment on: Cathet Cardiovasc Diagn 1996 Mar;37(3):263–6.

The stenotic stent: mechanisms and revascularization options. Topaz O, et al. **Cathet Cardiovasc Diagn** 1996 Mar; 37(3):293–9 (40 ref.)

Transluminal extraction catheter for acute myocardial infarction. Topaz O, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):291–6 (31 ref.)

Micro stent, quantitative coronary angiography, and procedural results [see comments] Tresukosol D, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):135–43. Comment in: Cathet Cardiovasc Diagn 1996 Jun;38(2):144.

Precision angioplasty [editorial; comment] White CJ. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):338. Comment on: Cathet Cardiovasc Diagn 1995 Dec;36(4):335–7.

Coronary artery and saphenous vein graft remodeling: a review of histologic findings after various interventional procedures—Part V. Waller BF, et al. **Clin Cardiol** 1997 Jan;20(1):67–74 (52 ref.)

Coronary artery and saphenous vein graft remodeling: a review of histologic findings after various interventional procedures—Part VI. Waller BF, et al. **Clin Cardiol** 1997 Feb;20(2):153–60 (25 ref.)

Late in-stent restenosis in coronary arteries and in grafts [letter] Debbas NM, et al. **Eur Heart J** 1997 Mar; 18(3):528–30

Vascular rupture complicating transluminal angioplasty applied on a failed dialysis vascular access in a patient under chronic steroid therapy. Melki PS, et al. **Eur Radiol** 1997; 7(3):313–5

PTCA, thrombolysis or atherectomy: rational treatment of recently occluded saphenous vein grafts. Mehta S, et al. **Indian Heart J** 1995 Sep–Oct;47(5):481–4

Influence of procedural success on immediate and long-term clinical outcome of patients undergoing percutaneous revascularization of occluded coronary artery bypass vein grafts. Berger PB, et al. **J Am Coll Cardiol** 1996 Dec; 28(7):1732–7

Thrombolysis versus surgery for the treatment of thrombosed dialysis access grafts. Beathard GA. **J Am Soc Nephrol** 1995 Dec;6(6):1619–24

Percutaneous treatment of a collapsed stent-graft. Ahmad AA, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):637–9

Treatment of a failed bifurcated abdominal aortic stent graft with thrombolysis and Wallstent placement. Amesur NB, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):795–8

Percutaneous intervention for permanent hemodialysis access: a review. Gray RJ. **J Vasc Interv Radiol** 1997 May–Jun;8(3):313–27 (105 ref.)

Stent-grafts for revision of TIPS stenoses and occlusions: a clinical pilot study. Saxon RR, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):539–48

Manual thromboaspiration and dilation of thrombosed dialysis access: mid-term results of a simple concept. Turmel-Rodrigues L, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):813–24

Treatment of thrombosed dialysis access grafts: randomized trial of surgical thrombectomy versus mechanical thrombectomy with the Amplatz device. Uflacker R, et al. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):185–92

Prospective randomized comparison of surgical versus endovascular management of thrombosed dialysis access grafts. Marston WA, et al. **J Vasc Surg** 1997 Sep; 26(3):373–80; discussion 380–1

Clinical results of common strategies used to revise infrainguinal vein grafts. Sullivan TR Jr, et al. **J Vasc Surg** 1996 Dec;24(6):909–17; discussion 917–9

Stent placement compared with balloon angioplasty for obstructed coronary bypass grafts. Saphenous Vein De Novo Trial Investigators. Savage MP, et al. **N Engl J Med** 1997 Sep 11;337(11):740–7

Upper extremity central venous obstruction in hemodialysis patients: treatment with Wallstents. Vesely TM, et al. **Radiology** 1997 Aug;204(2):343–8

[Use of PTCA in a gastroepiploic aortocoronary graft] Kováč J, et al. **Vnitr Lek** 1997 Feb;43(2):98–101 (Eng. Abstr.) **(Cze)**

[Management of iatrogenic hemorrhage after mechanical vascular recanalization] Görich J, et al. **Aktuelle Radiol** 1996 Jan;6(1):28–31 (Eng. Abstr.) **(Ger)**

[Interventional coronary revascularization in a patient with chronic dissection of the ascending aorta] von Kodolitsch Y, et al. **Z Kardiol** 1996 Sep;85(9):673–6 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Serial intravascular ultrasound predictors of restenosis at the margins of Palmaz-Schatz stents. Hoffmann R, et al. **Am J Cardiol** 1997 Apr 1;79(7):951–3

Vein graft surveillance: is the case proven? Beattie DK, et al. **Ann R Coll Surg Engl** 1997 Jan;79(1):1–2

Prospective validation of threshold criteria for intervention in infrainguinal vein grafts undergoing duplex surveillance. Westerband A, et al. **Ann Vasc Surg** 1997 Jan;11(1):44–8

Comparison of clinical follow-up and duplex surveillance of infrainguinal vein bypasses. Golledge J, et al. **Cardiovasc Surg** 1996 Dec;4(6):766–70

Early postoperative spasm of an internal thoracic artery bypass graft assessed by duplex ultrasound [letter] Nikodemska I, et al. **Eur Heart J** 1996 Oct;17(10):1600–1

Gastroepiploic artery coronary bypass graft: non-invasive patency evaluation using color and duplex Doppler ultrasonography. Gryspeerdt S, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):134–9

Sonography of transjugular intrahepatic portosystemic shunts: detection of elevated portosystemic gradients and loss of shunt function. Haskal ZJ, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):549–56

Screening for dialysis access graft malfunction: comparison of physical examination with US. Trerotola SO, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):15–20

Transjugular intrahepatic portosystemic shunts: accuracy of Doppler US in determination of patency and detection of stenoses. Feldstein VA, et al. **Radiology** 1996 Oct; 201(1):141–7

One-point measurement of the peak-to-peak pulsatility index as an indicator for evaluation of infrainguinal bypass procedures. Inoue Y, et al. **Surg Today** 1997;27(4):305–9

GRAFT REJECTION

Acute kidney rejection: is there a consensus? Guttmann RD. **Adv Nephrol Necker Hosp** 1997;26:165–70 (15 ref.)

Lung transplant rejection: obliterative bronchiolitis. Spector NM, et al. **Am J Crit Care** 1996 Sep;5(5):366–72 (39 ref.)

Long-term engraftment failure after marrow ablation and autologous hematopoietic reconstitution: differences between peripheral blood stem cell and bone marrow recipients. Bentley SA, et al. **Bone Marrow Transplant** 1997 Mar;19(6):557–63

Acute rejection of marrow grafts in patients transplanted from a partially mismatched related donor: clinical and immunologic characteristics. Lamb LS Jr, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1021–7

Polymorphism in the immunoglobulin-like domains of the receptor tyrosine kinase from the sponge Geodia cydonium. Pancer Z, et al. **Cell Adhes Commun** 1996 Nov; 4(4–5):327–39

Images in cardiovascular Medicine. Dynamic cardiomyoplasty after Heart transplantation. An unusual electrocardiogram. Fernández González AL, et al. **Circulation** 1996 Jun 15;93(12):2204

Detection of cardiac transplant rejection with 111In-labeled lymphocytes and gamma scintigraphy. Rubin PJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II298–303

Cardiac allograft vasculopathy: a review. Weis M, et al. **Circulation** 1997 Sep 16;96(6):2069–77 (115 ref.)

Role of lipids in chronic renal allograft rejection. Swan SK. **Contrib Nephrol** 1997;120:62–7 (34 ref.)

Chronic rejection. Koskinen P, et al. **Curr Opin Nephrol Hypertens** 1996 May;5(3):269–72 (18 ref.)

Xenograft rejection: molecular mechanisms and therapeutic prospects. Azimzadeh A, et al. **Hematol Cell Ther** 1996 Aug;38(4):331–43 (123 ref.)

Critical role of Fas/Fas ligand interaction in CD28-independent pathway of allogeneic murine hepatocyte rejection. Kawahara T, et al. **Hepatology** 1997 Oct;26(4):944–8

Persistent cytomegalovirus in liver allografts with chronic rejection. Lautenschlager I, et al. **Hepatology** 1997 Jan; 25(1):190–4

Influence of anti-HLA antibodies and positive T-lymphocytotoxic crossmatch on survival and graft rejection in human liver transplantation. Charco R, et al. **J Hepatol** 1996 Apr;24(4):452–9

IL-4 expression by grafts from transgenic mice fails to prevent allograft rejection. Mueller R, et al. **J Immunol** 1997 Aug 15;159(4):1599–603

Reduced diversity of CTLs specific for multiple minor histocompatibility antigens relative to allograft rejection in vivo. Nevala WK, et al. **J Immunol** 1997 Feb 1; 158(3):1102–7

Antigen-specific cytotoxic T cells mediate human fetal pancreas allograft rejection in SCID-hu mice. Rouleau M, et al. **J Immunol** 1996 Dec 15;157(12):5710–20

An immunocytochemical study of H+ ATPase in kidney transplant rejection. Jordan M, et al. **J Lab Clin Med** 1996 Mar;127(3):310–4

Xenogeneic adrenal medulla graft rejection rather than survival leads to increased rat striatal tyrosine hydroxylase immunoreactivity. Bresjanac M, et al. **J Neuropathol Exp Neurol** 1997 May;56(5):490–8

Heat shock protein 70 expression in native and heterotopically transplanted rat hearts. Mehta NK, et al. **J Surg Res** 1997 Jul 1;70(2):151–5

Proliferation of smooth muscle cells in acute allograft vascular rejection. Amano J, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):19–25

Increased nitric oxide levels in exhaled air of rat lung allografts. Mizuta T, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):830–5

Restricted T cell V beta repertoire in renal allografts during acute and chronic rejection. Barth C, et al. **Kidney Int** 1996 Dec;50(6):2020–6

Early protocol renal allograft biopsies and graft outcome. Serón D, et al. **Kidney Int** 1997 Jan;51(1):310–6

Expression of TGF-beta 1 and matrix proteins is elevated in rats with chronic rejection. Shihab FS, et al. **Kidney Int** 1996 Dec;50(6):1904–13

Nitric oxide synthase induction with renal transplant rejection or infection. Smith SD, et al. **Kidney Int** 1996 Dec;50(6):2088–93

Adhesion molecules and rejection of renal allografts. Solez K, et al. **Kidney Int** 1997 May;51(5):1476–80 (49 ref.)

Enhanced renal allograft rejection by inhibitors of nitric oxide synthase: a nonimmunologic influence on alloreactivity. Stojanovic T, et al. **Lab Invest** 1996 Feb; 74(2):496–512

Clinical xenotransplantation of solid organs. Dorling A, et al. **Lancet** 1997 Mar 22;349(9055):867–71 (40 ref.)

Which cyclosporin formulation? [letter; comment] Filler G, et al. **Lancet** 1996 Oct 26;348(9035):1176–7. Comment on: Lancet 1996 Jul 20;348(9021):205.

Which cyclosporin formulation? [letter; comment] Gennery A, et al. **Lancet** 1996 Oct 26;348(9035):1177. Comment on: Lancet 1996 Jul 20;348(9021):205.

No early rejection of animal organs in UK [news] [see comments] Morris K. **Lancet** 1997 Jan 25;349(9047):257. Comment in: Lancet 1997 Apr 5;349(9057):1031.

Increased rejection of murine allogeneic bone marrow in presensitized recipients. van Os R, et al. **Leukemia** 1997 Jul;11(7):1045–8

Rejection of discordant neovascularized xenografts: is it similar to the response against metazoan parasites? Mandel TE. **Med Hypotheses** 1996 Oct;47(4):299–305

True aneurysm of non-functional renal allograft artery. Balaji V, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2344–6

Mycophenolate mofetil for rescue therapy in acute renal transplant rejection in children should always be monitored by measurement of trough concentration [letter] Filler G, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):374–5

Engraftment failure following bone marrow transplantation in children with thalassemia major using busulfan and cyclophosphamide conditioning. Solh H, et al. **Pediatr Hematol Oncol** 1997 Jan–Feb;14(1):73–7

Risk factors for chronic rejection in pediatric renal transplant recipients—a single-center experience. Birk PE, et al. **Pediatr Nephrol** 1997 Aug;11(4):395–8

Plasma exchange in steroid and anti-thymocyte globulin resistant allograft rejection in children. Nijsten EW, et al. **Pediatr Nephrol** 1996 Oct;10(5):613–5

MP84 expression in the urine specimens of acute rejection renal transplant recipients. Mukhtar A. **Ren Fail** 1996 Nov; 18(6):931–5

Curing rat glioblastoma: immunotherapy or graft rejection? [letter; comment] Beutler AS, et al. **Science** 1997 Apr 4; 276(5309):20–1. Comment on: Science 1993 Jan 1;259(5091):94–7.

Effect of anti-intercellular adhesion molecule-1 and anti-leukocyte function associated antigen-1 monoclonal antibodies on rat-to-mouse cardiac xenograft rejection. Miwa S, et al. **Surgery** 1997 Jun;121(6):681–9

Discordant xenoislets from a large animal donor undergo accelerated graft failure rather than hyperacute rejection: impact of immunosuppression, islet mass, and transplant site on early outcome. Troppmann C, et al. **Surgery** 1997 Feb;121(2):194–205

Cyclosporine pharmacokinetics and risk of recurrent rejection in recipients of simultaneous pancreas/kidney transplants. Kaplan B, et al. **Ther Drug Monit** 1996 Oct; 18(5):556–61

Chronic rejection in lung allografts: immunohistological analysis of fibrogenesis. Hirabayashi T, et al. **Transpl Int** 1996;9 Suppl 1:S293–5

Does delayed kidney graft function increase the risk of chronic rejection? Isoniemi H, et al. **Transpl Int** 1996;9 Suppl 1:S5–7

Acute rejection relapses posttransplant: definition of risk group and evaluation of potent therapeutic regimens. Jacobs U, et al. **Transpl Int** 1996;9 Suppl 1:S34–7

Rat cytomegalovirus infection and chronic kidney allograft rejection. Koskinen PK, et al. **Transpl Int** 1996;9 Suppl 1:S3–4

Expression of adhesion molecules and their ligands in liver allografts during cytomegalovirus (CMV) infection and acute rejection. Lautenschlager I, et al. **Transpl Int** 1996; 9 Suppl 1:S213–5

Late ureteral obstruction after kidney transplantation. Fibrotic answer to previous rejection? Maier U, et al. **Transpl Int** 1997;10(1):65–8

Colon vs small bowel rejection after total bowel transplantation in a pig model. Nakhleh RE, et al. **Transpl Int** 1996;9 Suppl 1:S269–74

Changes in blood lymphocyte populations in experimental bowel allograft rejection. Navarro-Zorraquino M, et al. **Transpl Int** 1996;9 Suppl 1:S281–5

The significant effect of HLA-DRB1 matching on acute rejection in kidney transplants. Nojima M, et al. **Transpl Int** 1996;9 Suppl 1:S11–5

Difference in cytokine production in acute and chronic rejection of rat lung allografts. Sumitomo M, et al. **Transpl Int** 1996;9 Suppl 1:S223–5

Phenotypic analysis of lymphocytes infiltrating human cardiac allografts during acute rejection and the development of graft vascular disease. van Besouw NM, et al. **Transpl Int** 1996;9 Suppl 1:S234–6

Intragraft cytokine and growth factor mRNA expression in relation to graft vascular disease after heart transplantation. Baan CC, et al. **Transplant Proc** 1997 Sep;29(6):2535–6

ATP content of isolated islets: indication for species-dependent vulnerability for cell-mediated graft rejection? Brandhorst D, et al. **Transplant Proc** 1997 Jun; 29(4):2058

Adenovirus-mediated gene transfer of A20 renders

endothelial cells resistant to activation: a means of evaluating the role of endothelial cell activation in xenograft rejection. Ferran C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):879–80

Functional and pathologic outcome after complement inactivation in a pig kidney–human blood xenoperfusion model. Grinyo JM, et al. **Transplant Proc** 1997 Aug; 29(5):2318–21

Role of growth factors in graft vessel disease. Häyry P, et al. **Transplant Proc** 1997 Sep;29(6):2551

Immune and nonimmune clinical correlates of chronic renal allograft rejection. Kasiske BL. **Transplant Proc** 1997 Sep; 29(6):2557

Studies of alpha–Gal dependent hyperacute xenotransplant rejection using double knockout embryonic stem cells. Katayama A, et al. **Transplant Proc** 1997 Jun;29(4):2262

Comparison of graft rejection between vascularized or newborn intestinal transplantation in the rat. Kobayashi E, et al. **Transplant Proc** 1996 Oct;28(5):2485

Higher renal functional reserve in well-functioning renal grafts. Nakamura H, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):231–2

Is chronic rejection of liver transplants different from graft arteriosclerosis of kidney and heart transplants? Neil DA, et al. **Transplant Proc** 1997 Sep;29(6):2539–40

Nonspecific rapid elimination of transplanted allogeneic bone marrow cells. Olszewski WL, et al. **Transplant Proc** 1997 Jun;29(4):2073–4

Chronic rejection and graft arteriosclerosis: 4 years after the Alexis Carrel proposal on diagnostic criteria. Paul LC, et al. **Transplant Proc** 1997 Sep;29(6):2628–9 (28 ref.)

Preclinical models of chronic rejection: promises and pitfalls. Schuurman HJ, et al. **Transplant Proc** 1997 Sep; 29(6):2624–5

Chronic rejection in rhesus monkey kidney allografts. Schuurman HJ, et al. **Transplant Proc** 1997 Sep; 29(6):2546–7

Graft atherosclerosis and chronic rejection in the kidney. Solez K. **Transplant Proc** 1997 Sep;29(6):2541

Nonspecific immune reactivity of peripheral blood mononuclear cells is related to graft vascular disease. van Besouw NM, et al. **Transplant Proc** 1997 Sep;29(6):2544–5

Pig–to–primate cardiac xenotransplantation and cyclophosphamide therapy. Waterworth PD, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):899–900

Organ-specific differences in the pattern of allograft rejection in the mouse. Zhang Z, et al. **Transplant Proc** 1996 Oct; 28(5):2487

Cell–mediated cytotoxicity: a predictor of chronic rejection in pediatric HLA haploidentical renal transplants. Alexander SI, et al. **Transplantation** 1997 Jun 27; 63(12):1756–61

The presence of posttransplant HLA-specific IgG antibodies detected by enzyme-linked immunosorbent assay correlates with specific rejection pathologies. Costa AN, et al. **Transplantation** 1997 Jan 15;63(1):167–9

Experimental hyperacute rejection in pancreas allotransplants. Hawthorne WJ, et al. **Transplantation** 1996 Aug 15;62(3):324–9

Immunolocalization of acidic fibroblast growth factor and receptors in the tubulointerstitial compartment of chronically rejected human renal allografts. Kerby JD, et al. **Transplantation** 1997 Apr 15;63(7):988–95

Apoptotic cell death in human chronic renal allograft rejection. Laine J, et al. **Transplantation** 1997 Jan 15; 63(1):101–5

Molecular barriers to xenotransplantation. Lawson JH, et al. **Transplantation** 1996 Aug 15;62(3):303–10 (61 ref.)

Gadolinium chloride–induced macrophage blockade prevents rejection of human insulinoma cell xenograft in rats. Lázár G Jr, et al. **Transplantation** 1997 Mar 15;63(5):729–32

Manipulation of cytokine networks in transplantation: false hope or realistic opportunity for tolerance? Nickerson P, et al. **Transplantation** 1997 Feb 27;63(4):489–94 (71 ref.)

Hyperacute lung rejection in a pig–to–human transplant model: the role of anti–pig antibody and complement. Pierson RN 3rd, et al. **Transplantation** 1997 Feb 27; 63(4):594–603

Key role of the alternate complement pathway in hyperacute rejection of rat hearts transplanted into fetal sheep. Rajasinghe HA, et al. **Transplantation** 1996 Aug 15; 62(3):407–11

Flow cytometry cross-match: a method for predicting graft rejection. Utzig MJ, et al. **Transplantation** 1997 Feb 27; 63(4):551–4

BLOOD

Serum aminoterminal propeptide of type III procollagen after cardiac transplantation and the effect of rejection. Høst NB, et al. **Am J Cardiol** 1996 Dec 15;78(12):1406–10

Increased serum levels of circulating intercellular adhesion molecule 1 predict the risk of graft rejection after bone marrow transplantation for thalassemia. Centis F, et al. **Bone Marrow Transplant** 1997 Jul;20(2):125–8

Follow–up of leucocyte and reticulocyte counts for the prediction of carly graft failure after non–HLA–identical BMT in children. Gerritsen EJ, et al. **Bone Marrow Transplant** 1996 May;17(5):781–7

The risk of coronary artery disease after heart transplantation is increased in patients receiving low–dose cyclosporine, regardless of blood cyclosporine levels. Gamba A, et al. **Clin Cardiol** 1997 Sep;20(9):767–72

Pharmacokinetic profile of cyclosporine A after conversion to Sandimmun Optoral: influence on ambulatory blood pressure in renal transplant patients. Schwertfeger E, et al. **Clin Nephrol** 1996 May;45(5):349–51

Value of endothelin in cellular rejection after liver transplantation. Fábrega E, et al. **Clin Transplant** 1997 Feb; 11(1):25–8

Evaluation of plasma levels of tumour necrosis factor alpha and interleukin–6 as rejection markers in a cohort of 142 heart–grafted patients followed by endomyocardial biopsy [see comments] Abdallah AN, et al. **Eur Heart J** 1997 Jun; 18(6):1024–9. Comment in: Eur Heart J 1997 Jun;18(6):885–6.

Quantitative assessment of serum beta–2–microglobulin in liver transplant recipients and relationship to liver graft rejection. Vivarelli M, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1215–9

Clinical assessment of trough levels for monitoring of rejection in cyclosporine–treated kidney transplant recipients. Takahara S, et al. **Int Urol Nephrol** 1996; 28(3):431–8

Relationship of whole–blood FK506 concentrations to rejection and toxicity in liver and kidney transplants. Hedayat S, et al. **J Biopharm Stat** 1996 Nov;6(4):411–24

Dehydroepiandrosterone and cardiac allograft vasculopathy. Herrington DM, et al. **J Heart Lung Transplant** 1996 Jan; 15(1 Pt 1):88–93

The significance of tumor necrosis factor (TNF) levels for rejection of joint allograft. Watanabe H, et al. **J Reconstr Microsurg** 1997 Apr;13(3):193–7

Serum amyloid A protein is a clinically useful indicator of acute renal allograft rejection. Hartmann A, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):161–6

Prognostic value of eosinophils for therapeutic response in severe acute hepatic allograft rejection. Ben–Ari Z, et al. **Transplant Proc** 1996 Dec;28(6):3624–8

Beta–2 microglobulin in heart transplanted patients. Erez E, et al. **Transplant Proc** 1997 Sep;29(6):2706–7

Nitric oxide production in hepatic cell rejection of liver transplant patients. Fábrega E, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):505–6

Serum erythropoietin and parathyroid hormone concentrations in kidney transplant patients during acute graft rejection. Kokot F, et al. **Transplant Proc** 1996 Dec; 28(6):3477–9

Expression of cytokine messenger RNA after heart transplantation: relationship with rejection and serum cytokines. Grant SC, et al. **Transplantation** 1996 Oct 15; 62(7):910–6

Relationship of FK506 whole blood concentrations and efficacy and toxicity after liver and kidney transplantation. Kershner RP, et al. **Transplantation** 1996 Oct 15;62(7):920–6

CHEMICALLY INDUCED

Infection concomitant with pediatric renal allograft rejection. Acott PD, et al. **Transplantation** 1996 Sep 15;62(5):689–91

In vitro sensitivity to prednisolone may predict kidney rejection after steroid withdrawal. Bouma GJ, et al. **Transplantation** 1996 Nov 27;62(10):1422–9

Steroid withdrawal in mycophenolate mofetil–treated renal allograft recipients. Grinyo JM, et al. **Transplantation** 1997 Jun 15;63(11):1688–90

–Rejection of an allogeneic bone marrow graft following successful treatment of severe graft–versus–host disease (GVHD)] Sugimori N, et al. **Rinsho Ketsueki** 1996 Feb; 37(2):134–8 (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Comparison of quantitative echocardiography with endomyocardial biopsy to define myocardial rejection in pediatric patients after cardiac transplantation. Neuberger S, et al. **Am J Cardiol** 1997 Feb 15;79(4):447–50

Natural course of moderate cardiac allograft rejection (International Society for Heart Transplantation grade 2) early and late after transplantation. Brunner–La Rocca HP, et al. **Circulation** 1996 Sep 15;94(6):1334–8

Tumor necrosis factor beta gene polymorphism and early primary kidney allograft loss. Mahoney RJ, et al. **Hum Immunol** 1996 Oct;50(2):148–50

Should cryptogenic organizing pneumonia be included in the classification of pulmonary allograft rejection? [letter] Hasleton PS, et al. **J Heart Lung Transplant** 1996 Dec; 15(12):1268–9

A histopathologic grading system of hyperacute (humoral, antibody–mediated) cardiac xenograft and allograft rejection. Rose AG, et al. **J Heart Lung Transplant** 1996 Aug;15(8):804–17

Revision of the 1990 working formulation for the classification of pulmonary allograft rejection: Lung Rejection Study Group. Yousem SA, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):1–15

A UK–wide trial of the Banff classification of renal transplant pathology in routine diagnostic practice. Furness PN, et al. **Nephrol Dial Transplant** 1997 May;12(5):995–100

A multicenter report on the utilization of Banff grading in acute renal rejection. The 1995 Efficacy Endpoints Conference. Gaber LW, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):184–5

COMPLICATIONS

Traumatic wound dehiscence after penetrating keratoplasty. Rohrbach JM, et al. **Acta Ophthalmol Scand** 1996 Oct; 74(5):501–5

Pleural effusion from acute lung rejection. Judson MA, et al. **Chest** 1997 Apr;111(4):1128–30

Aortic valve endocarditis in an acutely rejecting orthotopic heart transplant recipient. Fazia RB, et al. **Clin Cardiol** 1996 Aug;19(8):672–4

Obliterative bronchiolitis. Kelly K, et al. **Clin Chest Med** 1997 Jun;18(2):319–38 (156 ref.)

Allograft conduit wall calcification in a model of chronic arterial graft rejection. Yankah AC, et al. **J Card Surg** 1997 Mar–Apr;12(2):86–92

Influence of acute or chronic rejection on myocardial collagen density in serial endomyocardial biopsy specimens from cardiac allografts. Fornes P, et al. **J Heart Lung Transplant** 1996 Aug;15(8):796–803

Transplantation atherosclerosis [editorial] Fellström B. **J Intern Med** 1996 Nov;240(5):253–7

Risk factors for renal allograft loss in patients with systemic lupus erythematosus. Lochhead KM, et al. **Kidney Int** 1996 Feb;49(2):512–7

Acute renal failure in renal allograft recipients and patients with native kidneys. Carvalho MF, et al. **Ren Fail** 1997 Mar;19(2):259–65

The impact of acute rejection on the development of intimal hyperplasia associated with chronic rejection. Hullett DA, et al. **Transplantation** 1996 Dec 27;62(12):1842–6

[Obliterative arteriopathy in chronic rejection after hepatic transplantation. Search of cytomegalovirus genome by in situ hybridization and viral antigens by immunohistochemistry] Martin L, et al. **Gastroenterol Clin Biol** 1997;21(4):259–64 (Eng. Abstr.) **(Fre)**

[Progression of chronic renal insufficiency in chronic rejection: the role of chronic transplantation glomerulopathy] Savić M, et al. **Srp Arh Celok Lek** 1996 Jan–Feb;124(1–2):11–3 (Eng. Abstr.) **(Scc)**

DIAGNOSIS

Brush cytology in the course of acute small bowel allograft rejection. Kuusanmäki P, et al. **Acta Cytol** 1997 Sep–Oct; 41(5):1500–9

Cardiac transplant rejection is associated with a decrease in the high–frequency components of the high–resolution, signal–averaged electrocardiogram. Graceffo MA, et al. **Am Heart J** 1996 Oct;132(4):820–6

Interleukin–8 expression in patients after renal transplantation. Budde K, et al. **Am J Kidney Dis** 1997 Jun;29(6):871–80

Noninvasive diagnosis of cardiac allograft rejection in an orthotopic canine model. Everett JE, et al. **Ann Thorac Surg** 1996 Nov;62(5):1337–40; discussion 1340–1

Unsuspected infections crystalline keratopathy masquerading as corneal graft rejection [letter] Morrison DA, et al. **Br J Ophthalmol** 1997 Jul;81(7):608

Prophylaxis post–transplant. The role of monitoring surveillance bronchoscopy and antimicrobials. Corris PA. **Clin Chest Med** 1997 Jun;18(2):311–8 (38 ref.)

Acute pulmonary allograft rejection. Mechanisms, diagnosis, and management. King–Biggs MB. **Clin Chest Med** 1997 Jun;18(2):301–10 (86 ref.)

Triiodothyronine (T3) reflects renal graft function after renal transplantation. Reinhardt W, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):563–9

Urinary excretion of glucosaminoglycans in patients with a renal transplant [letter] Rodríguez–Cuartero A, et al. **Clin Nephrol** 1997 Apr;47(4):274–6

Analysis of ICAM–1 and HLA–DR expression on renal allograft aspirates. Manfro RC, et al. **Clin Transplant** 1996 Aug;10(4):379–83

The challenge of endomyocardial biopsy interpretation in assessing cardiac allograft rejection. Winters GL. **Curr Opin Cardiol** 1997 Mar;12(2):146–52 (59 ref.)

Detection of acute rejection: validation of non–invasive diagnostic tests [editorial; comment] Ballester M. **Eur Heart J** 1997 Jun;18(6):885–6. Comment on: Eur Heart J 1997 Jun;18(6):1024–9.

Differentiation of delayed kidney graft function with gadolinium–DTPA–enhanced magnetic resonance imaging and Doppler ultrasound. Preidler KW, et al. **Invest Radiol** 1996 Jun;31(6):364–71

Paced epimyocardial electrograms for noninvasive rejection monitoring after heart transplantation. Auer T, et al. **J Heart Lung Transplant** 1996 Oct;15(10):993–8

Detection of acute cardiac allograft rejection with high resolution electrocardiography: experimental study in rats. Babuty D, et al. **J Heart Lung Transplant** 1996 Nov; 15(11):1120–9

Proton magnetic resonance spectroscopy of blood plasma in heart transplant recipients treated with cyclosporine: an early prognosis test of long–term graft tolerance. Le Floch M, et al. **J Heart Lung Transplant** 1997 Apr;16(4):381–6

Detection of renal allograft rejection by complement components C5A and TCC in plasma and urine. Müller TF, et al. **J Lab Clin Med** 1997 Jan;129(1):62–71

Surveillance transbronchial biopsy in the diagnosis of acute lung rejection in heart and lung and lung transplant recipients. Vitulo P, et al. **Monaldi Arch Chest Dis** 1996 Feb;51(1):12–5

Serum amyloid A protein is a clinically useful indicator of acute renal allograft rejection. Hartmann A, et al.

Nephrol Dial Transplant 1997 Jan;12(1):161–6

Cyclosporine nephrotoxicity and rejection crisis: diagnosis by urinary enzyme excretion. Bornstein B, et al. **Nephron** 1996;72(3):402–6

Quantitative detection of immune activation transcripts as a diagnostic tool in kidney transplantation. Strehlau J, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):695–700

Role of pulmonary function in the detection of allograft dysfunction after heart–lung transplantation. Van Muylem A, et al. **Thorax** 1997 Jul;52(7):643–7

Transplant rejection associated with the presence of human leucocyte antigen antibodies detected by the Fc gamma R inhibition test but not by the lymphocytotoxicity test. Neppert J, et al. **Transpl Immunol** 1997 Mar;5(1):45–8

Evoked epimyocardial electrogram for rejection diagnosis after heart transplantation. Auer T, et al. **Transpl Int** 1996; 9 Suppl 1:S243–6

Value of mucosal biopsies in the monitoring of acute small bowel rejection. Kuusanmäki P, et al. **Transpl Int** 1997; 10(3):192–6

Pancreas–specific protein (PASP), serum amyloid A (SAA), and neopterin (NEOP) in the diagnosis of rejection after simultaneous pancreas and kidney transplantation. Müller TF, et al. **Transpl Int** 1997;10(3):185–91

The anaphylatoxin C5a, a new parameter in the diagnosis of renal allograft rejection. Müller TF, et al. **Transpl Int** 1996;9 Suppl 1:S58–62

Thyroid hormone in liver allograft rejection. Antoniou EA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):503–4

Use of CD14 and lipopolysaccharide binding protein mRNA expression as markers for acute rejection in rat small bowel transplantation. Cicalese L, et al. **Transplant Proc** 1996 Oct; 28(5):2470

Nitric oxide production in hepatic cell rejection of liver transplant patients. Fábrega E, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):505–6

Performances of Doppler echocardiography for diagnosis of acute, mild, or moderate cardiac allograft rejection. Fauchier L, et al. **Transplant Proc** 1997 Aug;29(5):2442–5

Correlation of serologic and urinary tests with allograft biopsy in the diagnosis of pancreas rejection. Gill IS, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):673

Mucosal B–cell (OX–33) depletion: a novel marker for subclinical chronic rejection of rat small bowel allografts? Heeckt PF, et al. **Transplant Proc** 1996 Oct;28(5):2451

Anti–HLA antibodies detected in posttransplant renal allograft recipient sera correlate with chronic rejection. Kerman RH, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1515–6

Co–monitoring serum anodal trypsinogen, serum amylase, and serum creatinine accurately differentiates rejection from other causes of allograft dysfunction after simultaneous pancreas–kidney transplantation. Lieberman JM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):676–7

Serum interleukin–6 level after cardiac xenotransplantation in primates. Matsumiya G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):916–9

Evidence of CD28 upregulation in peripheral T cells before liver transplant acute rejection. Minguela A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):499–500

Magnetic resonance imaging using turbo–FLASH sequences in chronic renal allograft rejection: comparison with echo–Doppler and renal biopsy. Mousson C, et al. **Transplant Proc** 1996 Oct;28(5):2827–9

Proteinuria following renal transplantation: correlation with histopathology and outcome. Peddi VR, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):101–3

Transplantation of small bowel alone or with the liver in pigs: use of peripheral blood lymphocytes in monitoring rejection. Perego C, et al. **Transplant Proc** 1997 May; 29(3):1821–2

Value of circulating immune parameters in renal transplantation. Rebhandl W, et al. **Transplant Proc** 1997 May;29(3):1881–5

Procalcitonin: a new marker for differential diagnosis of acute rejection and bacterial infection in heart transplantation. Staehler M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):584–5

Elevated factor VIII as a marker for vascular type of rejection after renal transplantation. van Son WJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):161–3

Elevated fasting pro–insulin levels as a marker for impaired function after pancreas transplantation. Weide LG, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):678

Simultaneous pancreas and kidney transplant rejection: separate or synchronous events? Hawthorne WJ, et al. **Transplantation** 1997 Feb 15;63(3):352–8

Urine flow cytometry as a tool to differentiate acute allograft rejection from other causes of acute renal graft dysfunction. Roberti I, et al. **Transplantation** 1997 Sep 15;64(5):731–4

Pancreatitis–associated protein: a putative marker for pancreas graft rejection. van der Pijl JW, et al. **Transplantation** 1997 Apr 15;63(7):995–1003

Inability of serum myocyte death markers to predict acute cardiac allograft rejection. Wang CW, et al. **Transplantation** 1996 Dec 27;62(12):1938–41

[Use of endogenous proteins in the early diagnosis of dysfunction in transplanted kidneys] Třeška V, et al. **Rozhl Chir** 1996 Mar;75(3):127–30 (Eng. Abstr.) **(Cze)**

[Medium–term results of non–invasive follow–up after cardiac transplantation in childhood and in adolescence] Di Filippo S, et al. **Arch Mal Coeur Vaiss** 1997 May; 90(5):617–23 (Eng. Abstr.) **(Fre)**

[Differential acute graft rejection and infection diagnosis with procalcitonin and cytokines] Staehler M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:205–9 (Eng. Abstr.) **(Ger)**

[Intramyocardial electrocardiogram (IMEG) in diagnosis of humoral rejection after heart transplantation] Grauhan O, et al. **Z Kardiol** 1996 Oct;85(10):745–52 (Eng. Abstr.) **(Ger)**

[Progress in diagnosis and treatment of kidney diseases. V. Renal failure and kidney transplantation. 3. Rejection reaction following kidney transplantation] Sakai K, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1723–7 (6 ref.) **(Jpn)**

[Use of the laser–flare meter for early diagnosis of corneal graft rejection and for monitoring therapy] Zarnowski T, et al. **Klin Oczna** 1996;98(5):357–9 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Dose–related reversal of acute lung rejection by aerosolized cyclosporine. Iacono AT, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1690–8

Extracorporeal immunomodulation relevant to organ substitutions. Agishi T. **Artif Organs** 1996 Aug;20(8):917–21 (18 ref.)

15–Deoxyspergualin: a newly developed immunosuppressive agent and its mechanism of action and clinical effect: a review. Japan Collaborative Transplant Study Group for NKT–01. Amemiya H. **Artif Organs** 1996 Aug;20(8):832–5 (21 ref.)

Review of immunosuppression for lung transplantation. Novel drugs, new uses for conventional immunosuppressants, and alternative strategies. Hausen B, et al. **Clin Chest Med** 1997 Jun;18(2):353–66 (125 ref.)

Acute pulmonary allograft rejection. Mechanisms, diagnosis, and management. King–Biggs MB. **Clin Chest Med** 1997 Jun;18(2):301–10 (86 ref.)

Initial experience with tacrolimus rescue therapy in OKT3 resistant rejection. Herget S, et al. **Clin Nephrol** 1996 May; 45(5):352–4

The influence of the immunosuppressants OKT3 and ATG on immunological parameters. Neumann MC, et al. **Clin Nephrol** 1996 May;45(5):345–8

Successful reversal of acute vascular rejection in a renal allograft with combined mycophenolate mofetil and tacrolimus as primary immunotherapy. Ahsan N, et al. **Clin Transplant** 1997 Apr;11(2):94–7

Treatment of steroid–resistant and recurrent acute cardiac transplant rejection with a short course of antibody therapy. Cantarovich M, et al. **Clin Transplant** 1997 Aug; 11(4):316–21

Evidence that ursodeoxycholic acid prevents steroid–resistant rejection in adult liver transplantation. Clavien PA, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):658–62

Treatment of renal allograft acute rejection with methylprednisolone: effect of fixed dose versus dose per body mass index. Douzdjian V, et al. **Clin Transplant** 1996 Jun;10(3):310–5

Treatment of acute glomerular rejection with FK 506. Woodle ES, et al. **Clin Transplant** 1996 Jun;10(3):266–70

Reversal of accelerated renal allograft rejection with FK 506. Woodle ES, et al. **Clin Transplant** 1997 Aug;11(4):251–4

FK 506 therapy for refractory renal allograft rejection: lessons from liver transplantation. Woodle ES, et al. **Clin Transplant** 1996 Aug;10(4):323–32

The use of tacrolimus and mycophenolate mofetil after cardiac transplantation. Taylor DO. **Curr Opin Cardiol** 1997 Mar;12(2):161–5 (33 ref.)

Cardioprotective effects of diltiazem during acute rejecion on heterotopic heart transplants. Libersan D, et al. **Eur Surg Res** 1997;29(3):229–36

Immunosuppression in renal transplantation. Bonomini V, et al. **Int J Artif Organs** 1997 Feb;20(2):73–5 (15 ref.)

Use of topical FK506 in a corneal graft rejection model in Lewis rats. Hikita N, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):901–9

Inhibition of endothelial cell function: should this be a main goal of immunosuppressive strategies? [editorial; comment] Bach FH. **J Heart Lung Transplant** 1997 May;16(5):493–5 (16 ref.). Comment on: J Heart Lung Transplant 1997 May;16(5):484–92.

Absence of endocardial lymphoid infiltrates (Quilty lesions) in nonheart transplant recipients treated with cyclosporine. Barone JH, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):600–3

Methotrexate for lung transplant recipients with steroid–resistant acute rejection. Cahill BC, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1130–7

Effects of methotrexate on acute rejection and cardiac allograft vasculopathy in heart transplant recipients. Costanzo MR, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):169–78

The prognostic impact of immunosuppression and cellular rejection on cardiac allograft vasculopathy: time for a reappraisal. Mehra MR, et al. **J Heart Lung Transplant** 1997 Jul;16(7):743–51

Methotrexate or total lymphoid radiation for treatment of persistent or recurrent allograft cellular rejection: a comparative study. Ross HJ, et al. **J Heart Lung Transplant** 1997 Feb;16(2):179–89

Treatment of refractory acute allograft rejection with aerosolized cyclosporine in lung transplant recipients. Keenan RJ, et al. **J Thorac Cardiovasc Surg** 1997 Feb; 113(2):335–40; discussion 340–1

Prevention of OKT3 nephrotoxicity after kidney transplantation. Abramowicz D, et al. **Kidney Int Suppl** 1996 Jan;53:S39–43

Improved renal allograft survival in children treated with FK 506 (tacrolimus) rescue therapy. Corey HE, et al. **Pediatr Nephrol** 1996 Dec;10(6):720–2

Inhibition of inducible nitric oxide synthase prolongs rat lung allograft survival. Shiraishi T, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):78–82

Randomized trial of misoprostol in patients with chronic renal transplant rejection. Hilbrands LB, et al. **Transpl Int** 1996;9 Suppl 1:S41–4

Selective treatment of early acute rejection after liver transplantation: effects on liver, infection rate, and outcome. Klompmaker LJ, et al. **Transpl Int** 1997; 10(1):40–4

Mycophenolate mofetil added to immunosuppression after liver transplantation—first results. Klupp J, et al. **Transpl Int** 1997;10(3):223–8

Steroid resistance in clinical heart transplantation: the role of simultaneous IL–2 and IL–4 mRNA expression. Baan CC, et al. **Transplant Proc** 1996 Dec;28(6):3239–40

Tacrolimus (FK 506) therapy in simultaneous pancreas kidney transplantation. Becker G, et al. **Transplant Proc** 1996 Dec;28(6):3169–70

Tacrolimus therapy for refractory renal allograft rejection: experience with steroid withdrawal. Cronin DC 2nd, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):307

Mycophenolate mofetil rescue therapy in liver transplant recipients. Gavlik A, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):549–52

Noninvasive monitoring of rejection therapy based on intramyocardial electrograms after orthotopic heart transplantation. Grasser B, et al. **Transplant Proc** 1996 Dec; 28(6):3276–7

Five–year experience with tacrolimus rescue for renal allograft rejection. Jordan ML, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):306

Effectiveness of 15–deoxyspergualin on steroid–resistant acute rejection in living related liver transplantation. Katoh H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):553–4

FK 506 in the treatment of steroid– and OKT3–resistant rejection in renal transplant recipients: reduced dosage and anti–infective prophylaxis. Kliem V, et al. **Transplant Proc** 1996 Dec;28(6):3166–8

Reversal of experimental small bowel transplantation rejection with cyclosporine A. Liu Q, et al. **Transplant Proc** 1996 Oct;28(5):2508–9

Tacrolimus (FK506) proves superior to OKT3 for treating episodes of persistent rejection following intrathoracic transplantation. Meiser BM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):605–6

Long–term follow–up of tacrolimus rescue therapy for renal allograft rejection. Naraghi RM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):310

Treatment of kidney transplants with chronic rejection using angiotensin–converting enzyme inhibitors. Paredes D, et al. **Transplant Proc** 1997 Sep;29(6):2587–8

Treatment of acute renal transplant rejection with FK 506 in patients on cyclosporine after failure of standard antirejection therapy. Scott–Douglas N, et al. **Transplant Proc** 1996 Dec;28(6):3165

Multicenter trial of the therapeutic effect of a newly developed antiplatelet agent, satigrel, on biopsy–proven chronic rejection after kidney transplantation. Teraoka S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):266–71

Rescue therapy with mycophenolate mofetil. Mycophenolate Mofetil Renal Refractory Rejection Study Group. Tomlanovich SJ. **Transplant Proc** 1996 Dec;28(6 Suppl 1):34–6 (33 ref.)

Tacrolimus therapy for refractory acute renal allograft rejection: a prospective multicenter trial. Tacrolimus Kidney Transplantation Rescue Study Group. Woodle ES, et al. **Transplant Proc** 1996 Dec;28(6):3163–4

Conversion from cyclosporine to tacrolimus in hepatic and renal transplantation. Yussim A, et al. **Transplant Proc** 1996 Dec;28(6):3178–9

Use of intravenous FK506 to treat acute rejection in simultaneous pancreas–kidney transplant recipients on maintenance oral FK506. Ciancio G, et al. **Transplantation** 1997 Mar 15;63(5):785–8

Tacrolimus rescue therapy for renal allograft rejection—five–year experience. Jordan ML, et al. **Transplantation** 1997 Jan 27;63(2):223–8

Variable oral absorption of cyclosporine. A biopharmaceutical risk factor for chronic renal allograft rejection. Kahan BD, et al. **Transplantation** 1996 Sep 15; 62(5):599–606

Correlation of clinical outcomes after tacrolimus conversion for resistant kidney rejection or cyclosporine toxicity with pathologic staging by the Banff criteria. Morrissey PE, et al. **Transplantation** 1997 Mar 27;63(6):845–8

A multicenter trial of FK506 (tacrolimus) therapy in refractory acute renal allograft rejection. A report of the Tacrolimus Kidney Transplantation Rescue Study Group. Woodle ES, et al. **Transplantation** 1996 Sep 15;62(5):594–9

Tacrolimus therapy for refractory acute renal allograft rejection: definition of the histologic response by protocol biopsies. Woodle ES, et al. **Transplantation** 1996 Oct 15;

62(7):906–10
[Liver transplantation. Indications, results, pre- and postoperative care] Böker KH, et al. **Internist (Berl)** 1996 Mar;37(3):250–63 (88 ref.) **(Ger)**
[Kidney transplantation. Indications, results, pre- and postoperative care] Brunkhorst R, et al. **Internist (Berl)** 1996 Mar;37(3):264–71 (13 ref.) **(Ger)**
[Cyclosporin in transplantation management—especially after kidney transplantation] Quellhorst E. **Internist (Berl)** 1996 Jan;37(1):88–90 (90 ref.) **(Ger)**
[On the topic of cyclosporin] Thema Z. **Internist (Berl)** 1996 Jan;37(1):83 **(Ger)**
[Immunosuppression in organ transplantation. New substances and therapeutic approaches] Wonigeit K. **Internist (Berl)** 1996 Mar;37(3):229–39 (62 ref.) **(Ger)**
[Therapeutic use of monoclonal antibodies] Baron D. **Naturwissenschaften** 1997 May;84(5):189–98 (7 ref.) (Eng. Abstr.) **(Ger)**
[Intermittent administration of 15-deoxyspergualin for acute on chronic rejection after renal transplantation] Kawamoto S, et al. **Hinyokika Kiyo** 1996 Dec;42(12):931–5 (Eng. Abstr.) **(Jpn)**

ECONOMICS

Cost-effective management of acute rejection in liver transplant recipients: a managed care perspective. Abouljoud MS, et al. **Transplant Proc** 1997 Feb-Mar; 29(1–2):1557–9

ENZYMOLOGY

Tissue kallikrein excretion in acute and chronic renal transplant rejection. Moodley D, et al. **Immunopharmacology** 1996 Jun;33(1–3):380–2
Nitration and inactivation of manganese superoxide dismutase in chronic rejection of human renal allografts. MacMillan-Crow LA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11853–8

EPIDEMIOLOGY

Chronic allograft failure: the clinical problem. Nagano H, et al. **Am J Med Sci** 1997 May;313(5):305–9 (48 ref.)
An increased incidence of rejection episodes. One of the causes of worse kidney transplantation survival in black recipients. Tesi RJ, et al. **Arch Surg** 1997 Jan;132(1):35–9; discussion 40
Bone marrow engraftment following unrelated donor transplantation utilizing busulfan and cyclophosphamide preparatory chemotherapy. Klein JL, et al. **Bone Marrow Transplant** 1996 Apr;17(4):479–83
Risk factors and predictive indexes of early graft failure in liver transplantation. Marino IR, et al. **Ital J Gastroenterol** 1996 Apr;28(3):163–8
Correlation between Banff classification, acute renal rejection scores and reversal of rejection. Gaber LW, et al. **Kidney Int** 1996 Feb;49(2):481–7
Chronic renal allograft rejection: immunologic and nonimmunologic risk factors. Massy ZA, et al. **Kidney Int** 1996 Feb;49(2):518–24
Management conditions during dialysis therapy influence the occurrence of complications after renal transplantation? Ueda H, et al. **Nippon Jinzo Gakkai Shi** 1996 Oct; 38(10):455–9
Timing of pedicle thrombosis and flap loss after free-tissue transfer. Kroll SS, et al. **Plast Reconstr Surg** 1996 Dec; 98(7):1230–3
An adverse matching effect for the HLA-B locus in corneal transplantation. Hill JC, et al. **Transpl Int** 1997;10(2):145–9
Financial impact of cold ischemia time in renal transplantation. Barama A, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1563–4
Chronic rejection in pediatric liver transplantation. Cho JH, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):452–3
Molecular level HLA mismatches in UNOS "zero-mismatched" kidney transplants. Cook DJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1401–2
Complications following living-related and cadaveric liver transplantation in 100 children. Drews D, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):421–3
Allograft rejection and corticosteroids in acute pancreatitis following renal and cardiac transplantation. Hagopian EJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):583
The "injury response": a concept linking nonspecific injury, acute rejection, and long-term transplant outcomes. Halloran PF, et al. **Transplant Proc** 1997 Feb-Mar; 29(1–2):79–81 (22 ref.)
Analysis of incidence and pattern of acute rejection episodes after simultaneous pancreas and kidney transplantation. Hiesse C, et al. **Transplant Proc** 1997 Feb-Mar; 29(1–2):671–2
Frequency and clinical correlations of allogeneic microchimerism after heart, liver, and lung transplantation. Hisanaga M, et al. **Transplant Proc** 1997 Feb-Mar; 29(1–2):1215–7
Crossmatching for renal transplantation—a 5-year review of different cytotoxic and flow cytometric methods showing importance of the IgG anti-B-lymphocyte FACS crossmatch. Horsburgh T, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1458–9
Clinical and immunologic characteristics of transplant recipients with recurrent acute rejection episodes. Jacobs U, et al. **Transplant Proc** 1996 Dec;28(6):3231–3
Intraoperative T-cell depletion prior to completion of anastomoses by high-dose single ATG bolus as a new approach to improve long-term results after kidney transplantation. Kaden J, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):344–7
Postrenal transplant MLR hypo-responders have fewer rejections and better graft survival than MLR hyper-responders. Kerman RH, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1410–1
Biopsy-proven chronic rejection in living donor kidney transplantation—risk factors and graft survival. Kim SI, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):100
Acute rejection episodes predict long-term renal transplantation survival. Kokado Y, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1537–40
Clinical implications of flow cytometry B cell crossmatching in renal transplantation. Kotb M, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1430–2
Separate risk factors for the development of transplant glomerulopathy vs chronic tubulointerstitial rejection. Kupin W, et al. **Transplant Proc** 1997 Feb-Mar; 29(1–2):245–6
Experience in one center of combined kidney and liver transplantation in 22 patients: incidence of graft rejection and long-term graft outcome. Larue JR, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):243–4
Association of pretransplant anti-heart antibodies against human heat shock protein 60 with clinical course following cardiac transplantation. Latif N, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1039–40
Body size mismatch between donor and recipient and the development of chronic rejection in renal transplantation. Lee LS, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):111
Risk factors in chronic renal allograft rejection: a case-control study at a single center. Mourad G, et al. **Transplant Proc** 1996 Oct;28(5):2822
Incidence of kidney and pancreas rejection following portal-enteric versus systemic-bladder pancreas-kidney transplantation. Nymann T, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):640–1
Critical evaluation of the association of acute with chronic graft rejection in kidney and heart transplant recipients. The Collaborative Transplant Study. Opelz G. **Transplant Proc** 1997 Feb-Mar;29(1–2):73–6
Influence of ischemia-reperfusion injury on rejection after liver transplantation. Pirenne J, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):366–7
Incidence and outcome of chronic rejection in CyA- and FK 506-treated patients. Platz KP, et al. **Transplant Proc** 1996 Dec;28(6):3183–4
Importance of HLA-DRB1 molecular matching based on three-dimensional structure in cadaveric renal transplantation: a trial of new criteria for recipient and donor selection. Sada M, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1440–2
Incidence of late acute rejection and progression to chronic rejection in pediatric liver recipients. Sellers M, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):428–9
Does early steroid withdrawal influence rejection and infection episodes during the first 2 years after heart transplantation? Seydoux C, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):620–4
Severe exfoliative rejection after intestinal transplantation in children. Sigurdsson L, et al. **Transplant Proc** 1996 Oct; 28(5):2783–4
Outcomes in recipients of combined heart-kidney transplantation: multiorgan, same-donor transplant study of the International Society of Heart and Lung Transplantation/United Network for Organ Sharing Scientific Registry. Narula J, et al. **Transplantation** 1997 Mar 27;63(6):861–7
The outcome of kidney grafts from multiorgan donors and kidney only donors. Smits JM, et al. **Transplantation** 1996 Sep 27;62(6):767–71

ETHNOLOGY

Racial variation in dosage requirements of tacrolimus [letter] Andrews PA, et al. **Lancet** 1996 Nov 23;348(9039):1446

ETIOLOGY

Risk factors for graft failure in penetrating keratoplasty. Yamagami S, et al. **Acta Ophthalmol Scand** 1996 Dec; 74(6):584–8
Analysis of chronic rejection and obliterative arteriopathy. Possible contributions of donor antigen-presenting cells and lymphatic disruption. Demetris AJ, et al. **Am J Pathol** 1997 Feb;150(2):563–78
Early and late airway complications after lung transplantation: incidence and management. Kshettry VR, et al. **Ann Thorac Surg** 1997 Jun;63(6):1576–83
Free radical-mediated tissue injury in acute lung allograft rejection and the effect of superoxide dismutase. Shiraishi T, et al. **Ann Thorac Surg** 1997 Sep;64(3):821–5
Risk factors for liver rejection: evidence to suggest enhanced allograft tolerance in infancy. Murphy MS, et al. **Arch Dis Child** 1996 Dec;75(6):502–6
Follow-up of leucocyte and reticulocyte counts for the prediction of early graft failure after non-HLA-identical BMT in children. Gerritsen EJ, et al. **Bone Marrow Transplant** 1996 May;17(5):781–7
Late acute rejection occurring in liver allograft recipients. Yoshida EM, et al. **Can J Gastroenterol** 1996 Oct; 10(6):376–80
Infections and reduced functioning kidney mass induce chronic rejection in rat kidney allografts. Heemann UW, et al. **Clin Nephrol** 1996 Jul;46(1):34–8
Effects of azathioprine withdrawal in kidney recipients with stable function two years after transplant. Goldman MH, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):617–9
The potential role of mast cells in lung allograft rejection. Yousem SA. **Hum Pathol** 1997 Feb;28(2):179–82
Expression of both Th1 and Th2 cytokines correlates with the histological rejection of MHC-matched and MHC-mismatched foetal pancreas allografts in mice. Kovarik J, et al. **Immunol Cell Biol** 1997 Jun;75(3):303–9
Delayed xenograft rejection. Bach FH, et al. **Immunol Today** 1996 Aug;17(8):379–84 (62 ref.)
Transplantation of discordant xenografts: a challenge revisited. Parker W, et al. **Immunol Today** 1996 Aug; 17(8):373–8 (53 ref.)
Tissue kallikrein excretion in acute and chronic renal transplant rejection. Moodley D, et al. **Immunopharmacology** 1996 Jun;33(1–3):380–2
Functional role of atrial natriuretic peptide in acute renal transplant rejection. Naicker S, et al. **Immunopharmacology** 1996 Jun;33(1–3):161–3
Hepatitis C virus-associated membranoproliferative glomerulonephritis in renal allografts. Cruzado JM, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2469–75
Association between liver transplantation for Langerhans cell histiocytosis, rejection, and development of posttransplant lymphoproliferative disease in children. Newell KA, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):98–104
Altered expression of transforming growth factor-beta S in chronic renal rejection. Horvath LZ, et al. **Kidney Int** 1996 Aug;50(2):489–98
Acute rejection of renal allografts: mechanistic insights and therapeutic options. Suthanthiran M. **Kidney Int** 1997 Apr; 51(4):1289–304 (182 ref.)
Cytomegalovirus infection-enhanced chronic kidney allograft rejection is linked with intercellular adhesion molecule-1 expression. Yilmaz S, et al. **Kidney Int** 1996 Aug;50(2):526–37
Metabolic abnormalities in renal transplant recipients. Risk factors and predictors of chronic graft dysfunction? [editorial] Dimény E, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):21–4 (25 ref.)
Interleukin-6 expression after renal transplantation. Waiser J, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):753–9
Major medical complications of lung transplantation: a pediatric perspective. Mallory GB Jr. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):305–12 (58 ref.)
Is hepatitis C virus recurrence a risk factor for chronic liver allograft rejection? Charco R, et al. **Transpl Int** 1996;9 Suppl 1:S195–7
Relationship between CMV and graft rejection after heart transplantation. Decoene C, et al. **Transpl Int** 1996;9 Suppl 1:S241–2
Acute rejection in a renal transplant precipitated by plasmapheresis [letter] McLoughlin J, et al. **Transplantation** 1996 Sep 15;62(5):703–4
Identification of patients at high risk of graft loss by pre- and posttransplant monitoring of anti-HLA class I IgG antibodies by enzyme-linked immunosorbent assay. Monteiro F, et al. **Transplantation** 1997 Feb 27;63(4):542–6
Delayed graft function: risk factors and implications for renal allograft survival. Ojo AO, et al. **Transplantation** 1997 Apr 15;63(7):968–74
Graft loss following liver transplantation in patients with chronic hepatitis C. Rosen HR, et al. **Transplantation** 1996 Dec 27;62(12):1773–6
Fluorescence videomicroscopic assessment of xenogeneic microcirculation and impact of antibody removal by immunoadsorption. Seehofer D, et al. **Transplantation** 1997 Feb 15;63(3):460–5
Acute graft rejection after treatment with human growth hormone [letter] Tydén G, et al. **Transplantation** 1997 Jan 15;63(1):174–6
Hyperfiltration nephropathy as a cause of late graft loss in renal transplantation. Modlin C, et al. **World J Urol** 1996; 14(4):256–64 (86 ref.)
Causes of long-term graft failure in renal transplantation. Tanabe K, et al. **World J Urol** 1996;14(4):230–5
[Vascular involvement in chronic rejection (editorial)] Bruneval P. **Gastroenterol Clin Biol** 1997;21(4):251–3 **(Fre)**
[Cytomegalovirus infection and allograft rejection] Humbert M, et al. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S85–91 (62 ref.) (Eng. Abstr.) **(Fre)**
[Graft dysfunction, acute rejection and bronchiolitis obliterans in lung and heart-lung transplantation] Sleiman C, et al. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S31–40 (66 ref.) (Eng. Abstr.) **(Fre)**

GENETICS

Clinical application of molecular biology: a study of allograft rejection with polymerase chain reaction. Suthanthiran M. **Am J Med Sci** 1997 May;313(5):264–7
Effect of race on outcome after kidney and kidney-pancreas transplantation in type 1 diabetic patients. Douzdjian V, et al. **Diabetes Care** 1997 Aug;20(8):1310–4
Expression of human decay accelerating factor may protect pig lung from hyperacute rejection by human blood.

Pierson RN 3rd, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):231–9

Inducible nitric oxide synthase is expressed during experimental acute lung allograft rejection. Worrall NK, et al. **J Heart Lung Transplant** 1997 Mar;16(3):334–9

Compromised allograft rejection response in transgenic mice expressing antisense sequences to retinoic acid receptor beta2. Chen H, et al. **J Immunol** 1997 Jul 15;159(2):623–34

Why do some females reject males? The molecular basis for male-specific graft rejection. Scott DM, et al. **J Mol Med** 1997 Feb;75(2):103–14 (130 ref.)

Molecular analyses of human renal allografts: differential intragraft gene expression during rejection. Suthanthiran M. **Kidney Int Suppl** 1997 Mar;58:S15–21

Production of pigs transgenic for human DAF to overcome complement-mediated hyperacute xenograft rejection in man. White DJ, et al. **Res Immunol** 1996 Feb;147(2):88–94 (28 ref.)

Polymorphisms for angiotensin converting enzyme, angiotensinogen, nitric oxide synthase, and endothelin and their association with cardiac allograft vasculopathy in the first year posttransplant. Elstein E, et al. **Transplant Proc** 1997 Sep;29(6):2575

Polymorphisms in genes of angiotensin converting enzyme, angiotensinogen, nitric oxide synthase, and endothelin and their association with cardiac allograft rejection. Elstein E, et al. **Transplant Proc** 1997 Sep;29(6):2576

Expression of chemokine genes during rejection and long-term acceptance of cardiac allografts. Fairchild RL, et al. **Transplantation** 1997 Jun 27;63(12):1807–12

T cell-dependent acceleration of chemoattractant cytokine gene expression during secondary rejection of allogeneic skin grafts. Kondo T, et al. **Transplantation** 1997 Mar 15; 63(5):732–42

Pattern of liver, kidney, heart, and intestine allograft rejection in different mouse strain combinations. Zhang Z, et al. **Transplantation** 1996 Nov 15;62(9):1267–72

[Genetic control of humoral immune response to xenografts. A monoclonal antibody that causes the hyperacute rejection of cardiac xenografts uses the genes in a native form] Borie DC, et al. **Chirurgie** 1996;121(6):453–60 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

A simple solid-phase method for the identification of red cell-bound antibodies without elution. Nagamine K, et al. **Am J Clin Pathol** 1996 Sep;106(3):365–9

New insights into mechanisms of allograft rejection. Pattison JM, et al. **Am J Med Sci** 1997 May;313(5):257–63 (30 ref.)

Clinical application of molecular biology: a study of allograft rejection with polymerase chain reaction. Suthanthiran M. **Am J Med Sci** 1997 May;313(5):264–7

Antimyosin antibodies in cardiac rejection. Schütz A, et al. **Ann Thorac Surg** 1997 Feb;63(2):578–81 (19 ref.)

Prolonged ischemia is associated with more pronounced rejection in the lung allograft. Serrick C, et al. **Ann Thorac Surg** 1997 Jan;63(1):202–8

Destruction of a cyropreserved meniscal allograft: a case for acute rejection. Hamlet W, et al. **Arthroscopy** 1997 Aug; 13(4):517–21 (34 ref.)

Evidence of direct recognition subset in xeno-reactive helper T cells. Hirota T, et al. **Artif Organs** 1996 Aug;20(8):890–4

Selective inhibition of resistance to hemopoietic allografts but not rejection to a natural killer cell sensitive tumor in transgenic mice for granulocyte colony stimulating factor. Kokai Y, et al. **Artif Organs** 1996 Aug;20(8):883–9

Human peripheral blood lymphocyte-reconstituted, severe combined immunodeficient mice as a model for porcine islet xenograft rejection in humans. Shiroki R, et al. **Artif Organs** 1996 Aug;20(8):878–82

Effects of perfluorochemical-based artificial blood compounds in discordant xenotransplantation. Wada S, et al. **Artif Organs** 1996 Aug;20(8):930–5

Perforin- and Fas-mediated cytotoxic pathways are not required for allogeneic resistance to bone marrow grafts in mice. Baker MB, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):69–73

Immune reconstitution following T-cell depleted bone marrow transplantation: effect of age and posttransplant graft rejection prophylaxis. Small TN, et al. **Biol Blood Marrow Transplant** 1997 Jun;3(2):65–75

Non-HLA antigens and HLA-DR matching in corneal transplantation. Nicholls SM. **Br J Ophthalmol** 1996 Sep; 80(9):780–2

Targeting an anti-viral CD8+ T cell response to a growing tumor facilitates its rejection. Böhm W, et al. **Cancer Immunol Immunother** 1997 Jun;44(4):230–8

Interleukin-2 does not overcome suppression of graft rejection by cyclosporin A: effect of cyclosporin A on T cell properties in vivo. Magae J, et al. **Cell Immunol** 1996 Nov 1;173(2):276–81

Differences in the contribution of CD4+ T cells to proislet and islet allograft rejection correlate with constitutive class II MHC alloantigen expression. Simeonovic CJ, et al. **Cell Transplant** 1996 Sep–Oct;5(5):525–41

Role of the major histocompatibility complex class I regions in rat natural killer cell allograft responses in vivo and in vitro. Rolstad B. **Chem Immunol** 1996;64:59–76 (65 ref.)

Adhesion molecules (E-selectin and ICAM-1) in pulmonary allograft rejection. Shreeniwas R, et al. **Chest** 1996 Nov; 110(5):1143–9

Major histocompatibility complex class II antigen expression in rejecting cardiac allografts: detection using in vivo imaging with radiolabeled monoclonal antibody. McGhie AI, et al. **Circulation** 1997 Sep 2;96(5):1605–11

Absence of irreversible rejection in the presence of warm anti-donor-HLA class I cytotoxic IgG antibody. Shoker A, et al. **Clin Nephrol** 1997 Feb;47(2):87–91

Intragraft IL-4 mRNA expression is associated with down-regulation of liver graft rejection. Baan CC, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):542–9

Alloimmunization against platelet antigens in renal transplant patients with acute vascular rejection. Kekomäki S, et al. **Clin Transplant** 1997 Feb;11(1):19–24

Donor-specific HLA antibodies after transplantation are associated with deterioration in cardiac function. Leech SH, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):639–45

ABO antigen blood-group compatibility in corneal transplantation. Borderie VM, et al. **Cornea** 1997 Jan; 16(1):1–6

The immunological barriers to xenotransplantation. Platt JL. **Crit Rev Immunol** 1996;16(4):331–58 (191 ref.)

Cardiac xenotransplantation. Artrip JH, et al. **Curr Opin Cardiol** 1997 Mar;12(2):172–8 (47 ref.)

Recent advances and the potential for clinical use of xenotransplantation. Minanov OP, et al. **Curr Opin Cardiol** 1996 Mar;11(2):214–20 (40 ref.)

Induction of tolerance to cardiac allografts. Wood KJ. **Curr Opin Cardiol** 1996 Mar;11(2):208–13 (32 ref.)

Xenotransplantation. Cozzi E, et al. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):514–8 (48 ref.)

Donor-specific cytotoxic lymphocyte activity from bronchoalveolar lavage during acute canine lung allograft rejection. Sekine Y, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):902–9

Immunogenetic analysis of successful and rejected bone marrow grafts within one family. Martinez OP, et al. **Eur J Immunogenet** 1994 Oct;21(5):365–72

ELISA anti-HLA antibody screening identifies non-complement-fixing antibodies responsible for acute graft rejection. A case report. Nanni-Costa A, et al. **Eur J Immunogenet** 1996 Oct;23(5):383–7

Specific recognition and rejection of the H-2-deficient cell line LR.4 by C57BL/6J mice. Verastegui E, et al. **Eur J Immunogenet** 1997 Apr;24(2):93–103

Lack of correlation between rejection of tumor cells co-expressing interleukin-2 and B7.1 and vaccine efficiency. Cayeux S, et al. **Eur J Immunol** 1997 Jul; 27(7):1657–62

A role for Th2 cytokines in the suppression of CD8+ T cell-mediated graft rejection. Scully R, et al. **Eur J Immunol** 1997 Jul;27(7):1663–70

Synergy between an antibody and CD8+ cells in eliminating an established tumor. Vasović LV, et al. **Eur J Immunol** 1997 Feb;27(2):374–82

CD28 is not required for rejection of unmanipulated syngeneic and autologous tumors. Wen T, et al. **Eur J Immunol** 1997 Aug;27(8):1988–93

Cytokine mRNA expression during experimental corneal allograft rejection. Torres PF, et al. **Exp Eye Res** 1996 Oct;63(4):453–61

The role of major and minor histocompatibility antigens in orthotopic corneal transplantation in mice. Hašková Z, et al. **Folia Biol (Praha)** 1996;42(3):105–11

Immunology of liver transplantation: clinical management aspects. Shah V, et al. **Gastroenterologist** 1997 Jun; 5(2):137–47 (71 ref.)

A membrane cofactor protein transgenic mouse model for the study of discordant xenograft rejection [published erratum appears in Genes Cells 1996 Aug;1(8):785] Yannoutsos N, et al. **Genes Cells** 1996 Apr;1(4):409–19

Ex vivo spleen and kidney absorption of xenoreactive natural antibodies decreases severity of hyperacute rejection in pig-to-dog renal xenotransplantation. Nitta K. **Hiroshima J Med Sci** 1996 Dec;45(4):119–25

CD28 expression on peripheral blood T lymphocytes after orthotopic liver transplant: upregulation in acute rejection. García-Alonso AM, et al. **Hum Immunol** 1997 Mar; 53(1):64–72

Tumor necrosis factor beta gene polymorphism and early primary kidney allograft loss. Mahoney RJ, et al. **Hum Immunol** 1996 Oct;50(2):148–50

Mechanism of liver allograft rejection: the indirect recognition pathway. Molajoni ER, et al. **Hum Immunol** 1997 Mar;53(1):57–63

Soluble HLA class I antigens in pediatric patients with renal transplants from related living donors without acute rejection and treated with triple therapy. Tambutti ML, et al. **Hum Immunol** 1996 Oct;50(2):135–9

Quantitative evaluation of histological features in "time-zero" liver allograft biopsies as predictors of rejection or graft failure: receiver-operating characteristic analysis application. Abraham S, et al. **Hum Pathol** 1996 Oct; 27(10):1077–84

Selective in vivo deletion of alloactivated TH1 cells by OKT3 monoclonal antibody in acute rejection. Reinke P, et al. **Immunol Lett** 1997 Jun 1;57(1–3):151–3

Attempts to demonstrate indirect T cell allorecognition of donor MHC peptides in transplant patients. Saleem M, et al. **Immunol Lett** 1996 Dec 1;54(1):21–4

Cultured human biliary epithelial cells induce allogeneic lymphocyte activation in vitro: possible relevance in liver transplant rejection. Scholz M, et al. **Immunol Lett** 1997 Jan;55(1):27–34

The role of polymorphic donor peptides in allograft recognition and rejection. Fabre JW. **Immunol Rev** 1996 Dec;154:21–43 (79 ref.)

Allorecognition by murine natural killer cells: lysis of T-lymphoblasts and rejection of bone-marrow grafts. George T, et al. **Immunol Rev** 1997 Feb;155:29–40 (53 ref.)

Rejection of cardiac allografts by T cells expressing a restricted repertoire of T-cell receptor V beta genes. Shirwan H, et al. **Immunology** 1997 Apr;90(4):572–8

Current concepts in the immunology of allograft rejection. Bijur S. **Indian J Med Sci** 1996 Jan;50(1):13–9

IL-12 administered in vivo to young and aged mice. Discrepancy between the effects on tumor growth in vivo and cytotoxic T lymphocyte generation ex vivo: dependence on IFN-gamma. Horvath-Arcidiacono JA, et al. **Int Immunol** 1996 May;8(5):661–73

Ly-49 G2+ NK cells are responsible for mediating the rejection of H-2b bone marrow allografts in mice. Raziuddin A, et al. **Int Immunol** 1996 Dec;8(12):1833–9

Contribution of Fas ligand to cardiac allograft rejection. Seino K, et al. **Int Immunol** 1996 Sep;8(9):1347–54

Consideration of potential immunological problems in the application of xenogenic hybrid liver support. Bornemann R, et al. **Int J Artif Organs** 1996 Nov;19(11):655–63 (54 ref.)

Indirect T cell recognition in allograft rejection. Bradley JA. **Int Rev Immunol** 1996;13(3):245–55 (85 ref.)

Role of indirect allorecognition in allograft rejection. Sayegh MH, et al. **Int Rev Immunol** 1996;13(3):221–9 (43 ref.)

Murine orthotopic corneal transplantation in high-risk eyes. Rejection is dictated primarily by weak rather than strong alloantigens. Sano Y, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1130–8

Indirect recognition of donor HLA-DR peptides in organ allograft rejection. Liu Z, et al. **J Clin Invest** 1996 Sep 1;98(5):1150–7

Biological responses to endovascular treatment of abdominal aortic aneurysms. Norgren L, et al. **J Endovasc Surg** 1997 May;4(2):169–73 (8 ref.)

Transgenic expression of the Ly49A natural killer cell receptor confers class I major histocompatibility complex (MHC)-specific inhibition and prevents bone marrow allograft rejection. Held W, et al. **J Exp Med** 1996 Nov 1;184(5):2037–41

CD4+ but not CD8+ cells are essential for allorejection. Krieger NR, et al. **J Exp Med** 1996 Nov 1;184(5):2013–8

Pinpointing the moment of allograft rejection [letter; comment] Fealy MJ, et al. **J Hand Surg [Am]** 1996 May; 21(3):530–2. Comment on: J Hand Surg [Am] 1995 Jan;20(1):77–87.

Donor-derived human leukocyte antigen class I proteins in the serum of heart transplant recipients. DeVito-Hanyes LD, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1012–26

Influence of panel-reactive antibody on survival and rejection after lung transplantation. Gammie JS, et al. **J Heart Lung Transplant** 1997 Apr;16(4):408–15

The use of CD4 and CD8 knockout mice to study the role of T-cell subsets in allotransplant rejection. Krieger NR, et al. **J Heart Lung Transplant** 1997 Mar;16(3):263–7 (40 ref.)

Immunologic barriers to xenotransplantation. Lin SS, et al. **J Heart Lung Transplant** 1996 Jun;15(6):547–55 (72 ref.)

The bronchial epithelium: a potential allogeneic target for chronic rejection after lung transplantation. Mauck KA, et al. **J Heart Lung Transplant** 1996 Jul;15(7):709–14

Experimental and clinical allogeneic heart transplant rejection: correlations between histology and immune reactivity detected by cytokine messenger RNA. Normann SJ, et al. **J Heart Lung Transplant** 1996 Aug;15(8):778–89

Severe hemolysis caused by graft-derived anti-B production after lung transplantation. Taaning E, et al. **J Heart Lung Transplant** 1996 Aug;15(8):850–1

Isolated coronary artery transplantation in pigs: a new model to study transplantation arteriosclerosis and humoral rejection. Tixier DB, et al. **J Heart Lung Transplant** 1996 Sep;15(9):919–27

The avidity, not the mere presence, of primed cytotoxic T-lymphocytes for donor human leukocyte class II antigens determines their clinical relevance after heart transplantation. van Emmerik NE, et al. **J Heart Lung Transplant** 1997 Feb;16(2):240–9

Increased levels of circulating nitrates and impaired endothelium-mediated vasodilation suggest multiple roles of nitric oxide during acute rejection of pulmonary allografts. Wiklund L, et al. **J Heart Lung Transplant** 1997 May;16(5):517–23

Enhancement of cytomegalovirus infection and acute rejection after allogeneic lung transplantation in the rat: virus-induced expression of major histocompatibility complex class II antigens. You XM, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1108–19

Rejection of a nonimmunogenic melanoma by vaccination with natural melanoma peptides on engineered antigen-presenting cells. Bellone M, et al. **J Immunol** 1997 Jan 15;158(2):783–9

Abnormal regulation of retinoic acid receptor beta2 expression and compromised allograft rejection in transgenic mice expressing antisense sequences to retinoic acid receptor beta1 and beta3. Bérard J, et al. **J Immunol** 1997 Sep 15;159(6):2586–98

Natural killer cell- and macrophage-mediated rejection of concordant xenografts in the absence of T and B cell

responses. Lin Y, et al. **J Immunol** 1997 Jun 15; 158(12):5658–67

IL–12 antagonism induces T helper 2 responses, yet exacerbates cardiac allograft rejection. Evidence against a dominant protective role for T helper 2 cytokines in alloimmunity. Piccotti JR, et al. **J Immunol** 1996 Sep 1; 157(5):1951–7

Involvement of laminin and its receptor in abrogation of heart graft rejection by autoreactive T cells from Trypanosoma cruzi–infected mice. Silva–Barbosa SD, et al. **J Immunol** 1997 Jul 15;159(2):997–1003

The role of donor and recipient B7–1 (CD80) in allograft rejection. Zheng XX, et al. **J Immunol** 1997 Aug 1; 159(3):1169–73

Secretion of both IL–2 and IL–4 by tumor cells results in rejection and immunity. Strome SE, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jan; 19(1):21–32

Expression of Fas and Fas ligand in renal grafts with acute and chronic rejection in the rat model. Wang J, et al. **J Interferon Cytokine Res** 1997 Jun;17(6):369–73

MHC class I expression on dendritic cells is sufficient to sensitize for transplantation immunity. Lenz P, et al. **J Invest Dermatol** 1996 Dec;107(6):844–8

Interstitial mononuclear cell infiltrates in chronic rejection of the kidney and correlation with peripheral blood. Jeong HJ, et al. **J Korean Med Sci** 1996 Dec;11(6):489–94

Analysis of leukocyte activation during acute rejection of pulmonary allografts in noninfected and cytomegalovirus–infected rats. Steinmüller C, et al. **J Leukoc Biol** 1997 Jan;61(1):40–9

Human cytomegalovirus and acute rejection after heart transplantation are not directly associated. Boriskin YS, et al. **J Med Virol** 1996 Sep;50(1):59–70

Characterisation of the immune response in a neural xenograft rejection paradigm. Litchfield TM, et al. **J Neuroimmunol** 1997 Mar;73(1–2):135–44

Expression of the L1 antigen (calprotectin) by tissue macrophages reflects recent recruitment from peripheral blood rather than upregulation of local synthesis: implications for rejection diagnosis in formalin–fixed kidney specimens. Rugtveit J, et al. **J Pathol** 1996 Oct; 180(2):194–9

Ex vivo lung model of pig–to–human hyperacute xenograft rejection. Macchiarini P, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):315–25

Detection of donor–specific hyporesponsiveness following late failure of human renal allografts. Mason PD, et al. **Kidney Int** 1996 Sep;50(3):1019–25

The problem of chronic rejection: influence of leukocyte–endothelial interactions. Briscoe DM, et al. **Kidney Int Suppl** 1997 Mar;58:S22–7 (101 ref.)

Macrophages and chronic renal allograft nephropathy. Croker BP, et al. **Kidney Int Suppl** 1996 Dec;57:S42–9

Hyperacute xenograft rejection as an immunologic barrier to xenotransplantation. Daniels LJ, et al. **Kidney Int Suppl** 1997 Mar;58:S28–35 (72 ref.)

Tolerance and chronic rejection. Sayegh MH, et al. **Kidney Int Suppl** 1997 Mar;58:S11–4 (32 ref.)

Microchimerism and graft tolerance: cause or effect? [comment] Adams DH, et al. **Lancet** 1997 May 10; 349(9062):1336–7 (10 ref.). Comment on: Lancet 1997 May 10;349(9062):1358–60.

Association between specific HLA combinations and probability of kidney allograft loss: the taboo concept. Doxiadis II, et al. **Lancet** 1996 Sep 28;348(9031):850–3

Microchimerism and rejection in clinical transplantation [see comments] Elwood ET, et al. **Lancet** 1997 May 10; 349(9062):1358–60. Comment in: Lancet 1997 May 10;349(9062):1336–7.

Naive neutrophils and xenotransplantation [letter] [see comments] al–Mohanna FA, et al. **Lancet** 1996 Nov 2; 348(9036):1246. Comment in: Lancet 1996 Dec 7;348(9041):1596.

Neutrophils and xenotransplantation [letter; comment] Richards AC, et al. **Lancet** 1996 Dec 7;348(9041):1596. Comment on: Lancet 1996 Nov 2;348(9036):1246.

Failure to reject an allografted tumor after elimination of macrophages in mice. Ushio Y, et al. **Microbiol Immunol** 1996;40(7):489–98

Two distinct populations of primary cytotoxic cells infiltrating into allografted tumor rejection sites: infiltration of macrophages cytotoxic against allografted tumor precedes that of multiple sets of cytotoxic T lymphocytes with distinct specificity to alloantigens. Yoshida R, et al. **Microbiol Immunol** 1997;41(2):149–59

Short–term development of transplant–related coronary artery disease in orthotopic cardiac allograft recipients. Albat B, et al. **Minerva Cardioangiol** 1995 Oct;43(10):435–8

Accommodation of vascularized xenografts: expression of "protective genes" by donor endothelial cells in a host Th2 cytokine environment. Bach FH, et al. **Nat Med** 1997 Feb; 3(2):196–204

Fas ligand expression in islets of Langerhans does not confer immune privilege and instead targets them for rapid destruction [see comments] Kang SM, et al. **Nat Med** 1997 Jul;3(7):738–43. Comment in: Nat Med 1997 Jul;3(7):727–8.

Study of kidney rejection following simultaneous kidney–pancreas transplantation. Cofán F, et al. **Nephron** 1996;74(1):58–63

The use of Mycophenolate Mofetil (Cellcept) in renal transplantation [clinical conference] Vanrenterghem Y. **Nephron** 1997;76(4):392–9 (31 ref.)

Role of ABO and Lewis blood group antigens in donor–recipient compatibility of corneal transplantation rejection. Roy R, et al. **Ophthalmology** 1997 Mar; 104(3):508–12

Blockade of T–cell costimulation prevents development of experimental chronic renal allograft rejection [see comments] Azuma H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12439–44. Comment in: Proc Natl Acad Sci U S A 1996 Oct 29;93(22):12072–5.

Costimulatory function and expression of CD40 ligand, CD80, and CD86 in vascularized murine cardiac allograft rejection. Hancock WW, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13967–72

Mutated mitogen–activated protein kinase: a tumor rejection antigen of mouse sarcoma [see comments] Ikeda H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6375–9. Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(12):5991–2.

Rejection antigens in chemically induced tumors [see comments] Klein G. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):5991–2 (14 ref.). Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(12):6375–9.

Pig but not human interferon–gamma initiates human cell–mediated rejection of pig tissue in vivo. Sultan P, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8767–72

"Autoimmune rejection" of neonatal heart transplants in experimental Chagas disease is a parasite–specific response to infected host tissue. Tarleton RL, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3932–7

The influence of two distinct alloresponse pathways on the design of peptide–based strategies for allograft tolerance. Benichou G, et al. **Res Immunol** 1996 Jul–Aug; 147(6):377–87 (50 ref.)

The role of natural killer cells in allograft responses to MHC antigens in the rat. Rolstad B, et al. **Res Immunol** 1997 Mar–Apr;148(3):159–64 (42 ref.)

A preserved native kidney alters acute renal allograft rejection in the rat. Grau V, et al. **Scand J Immunol** 1997 Sep;46(3):254–61

Establishment of a human DAF/HRF20 double transgenic mouse line is not sufficient to suppress hyperacute rejection. Koike C, et al. **Surg Today** 1996;26(12):993–8

Concordant lung xenograft rejection in a hamster–to–rat model. Nagayasu T, et al. **Surg Today** 1996;26(10):793–9

Inhibition of inducible nitric oxide synthase prolongs rat lung allograft survival. Shiraishi T, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):78–82

Analysis of bilirubin fraction in the bile for early diagnosis of acute rejection in living related liver transplantation. Akamatsu Y, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):145–54

Analysis of effector mechanisms in murine cardiac allograft rejection. Alexander DZ, et al. **Transpl Immunol** 1996 Mar; 4(1):46–8

Peripheral blood and intrahepatic subsets of T lymphocyte activation and function in liver allograft rejection and drug–induced tolerance in rats. Davenport M, et al. **Transpl Immunol** 1996 Jun;4(2):126–32

Anti–cell surface endothelial antibodies in sera from cardiac and kidney transplant recipients: association with chronic rejection. Ferry BL, et al. **Transpl Immunol** 1997 Mar; 5(1):17–24

Role of donor–specific cytotoxic T cells in rejection of corneal allografts in normal and high–risk eyes. Ksander BR, et al. **Transpl Immunol** 1996 Mar;4(1):49–52

Immunological and hemodynamic mechanisms in chronic renal allograft rejection. Paul LC, et al. **Transpl Immunol** 1996 Mar;4(1):39–42 (27 ref.)

T cells from rejected human kidney allografts respond to heat shock protein 72. Trieb K, et al. **Transpl Immunol** 1996 Mar;4(1):43–5

Hyperacute renal allograft rejection from anti–HLA class 1 antibody to B cells––antibody detection by two color FCXM was possible only after using pronase–digested donor lymphocytes. Lobo PI, et al. **Transpl Int** 1997; 10(1):69–73

Liver allograft rejection in rats depleted of CD8+ cells. Ninova DI, et al. **Transpl Int** 1996;9(5):499–505

Rejection of human liver allografts: immuno–histopathologic relationship and direct allorecognition of donor antigens by T lymphocytes. Arvieux C, et al. **Transplant Proc** 1996 Oct;28(5):2849–50

A study of tolerance in a concordant xenograft model. Bartholomew AM, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):923–4

Pretransplant crossmatching: an individualized process. Bishara A, et al. **Transplant Proc** 1997 Sep;29(6):2708–10

Anti–graft and anti–host antibody responses following small bowel transplantation in the rat. Bowles MJ, et al. **Transplant Proc** 1996 Oct;28(5):2486

Hyperimmunized agammaglobulinemic RAG mice develop accelerated rejection of skin allografts due to CD8+ T cell immunization. Chargui J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):867

Immunocyte infiltration of the graft muscularis and its effect on muscle function during acute rejection of rat small intestinal allografts. Cicalese L, et al. **Transplant Proc** 1996 Oct;28(5):2459

Self–MHC restricted T cells specific for donor peptides infiltrate human grafts during rejection. Colovai AI, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1509–10

Liver transplantation–mediated transfer of immunity: accelerated rejection of a skin graft from a sensitized donor. Dahmen U, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1123–5

Accelerated rejection of a skin graft after liver transplantation from a sensitized donor: functional aspects of microchimerism. Dahmen U, et al. **Transplant Proc** 1996 Dec;28(6):3243–5

Molecular biology of the allograft response. Dallman MJ. **Transplant Proc** 1996 Dec;28(6 Suppl 1):2–6 (25 ref.)

Human renal allograft rejection in the SCID/rat radiation chimera. Dekel B, et al. **Transplant Proc** 1997 Jun; 29(4):2255–6

The immunolymphatic theory of chronic rejection. Demetris AJ, et al. **Transplant Proc** 1997 Sep;29(6):2615–6

An in vitro model for studying the role of graft endothelial cells in rat heart allograft rejection: a study of the regulation and function of heart endothelial histocompatibility antigens and cell adhesion molecules. Derhaag JG, et al. **Transplant Proc** 1997 May;29(3):1717–8

TCR V beta repertoire in LEW.1W heart allografts acutely rejected by LEW.1A recipients is restricted and comprises a public response. Douillard P, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1054

The time pattern of organ infiltration and distribution of natural killer cells and macrophages in the course of acute graft rejection after allogeneic heart transplantation in the rat. Dresske B, et al. **Transplant Proc** 1997 May; 29(3):1715–6

Impact of natural killer cells and macrophages on the course of acute graft rejection following allogeneic heart transplantation in the rat. Dresske B, et al. **Transplant Proc** 1996 Dec;28(6):3259–60

Role of natural killer cells and classical (RT1.A) vs nonclassical (RT1.C) class I molecules in acute bone marrow allograft rejection in lethally irradiated rats. Engh E, et al. **Transplant Proc** 1996 Dec;28(6):3265–6

Impact of natural killer cells in mediating graft–versus–host disease following small bowel transplantation in a rat model. Fändrich F, et al. **Transplant Proc** 1996 Oct; 28(5):2465–6

Influence of macrophage depletion on bacterial translocation and rejection in small bowel transplantation. Fryer J, et al. **Transplant Proc** 1996 Oct;28(5):2660

Histopathologic changes of antibody–mediated small bowel graft rejection in blood–transfused recipients. Fujisaki S, et al. **Transplant Proc** 1996 Oct;28(5):2484

PCR–flow analysis used to detect the levels of chimerism in peripheral blood of bone–marrow infused organ allograft recipients at the time of rejection episodes. Garcia–Morales R, et al. **Transplant Proc** 1997 Jun;29(4):2179–80

Genetically determined leukotriene B4 production is not required for cytotoxic effector cell development during allograft rejection. Gignac MR, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1052

T–cell interactions with extracellular matrix proteins in allograft rejection: target for immunomodulating therapy. Górski A, et al. **Transplant Proc** 1996 Dec;28(6):3292

Acute rejection of rat renal allografts is influenced by the presence of a native kidney. Grau V, et al. **Transplant Proc** 1997 May;29(3):1723

Histocompatibility complex subloci differences in small bowel transplantation: their influence on graft rejection. Gundlach M, et al. **Transplant Proc** 1996 Oct;28(5):2447–8

Cytokines are involved in the rejection of small intestine allografts. Hayashi M, et al. **Transplant Proc** 1997 May; 29(3):1802

Immunobiology and pathology of chronic rejection. Häyry P, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):77–8 (17 ref.)

Pathophysiology of chronic rejection. Häyry P. **Transplant Proc** 1996 Dec;28(6 Suppl 1):7–10 (30 ref.)

Mechanisms of recombinant IFN gamma–induced acute heart allograft rejection in recipient rats made tolerant to donors by pre–graft donor–specific blood transfusion. Josien R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1055–6

Upregulation of elastin–mediated costimulation of T–cell responses after renal transplantation. Juskowa J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1536

Interleukin–6 levels in patients with chronically rejected kidney allografts. Kamińska B, et al. **Transplant Proc** 1996 Dec;28(6):3447–8

Involvement of Fas and Fas ligand interaction in allogeneic hepatocyte rejection in the spleen. Kawahara T, et al. **Transplant Proc** 1997 Jun;29(4):2187–8

Anti–HLA antibodies detected in posttransplant renal allograft recipient sera correlate with chronic rejection. Kerman RH, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1515–6

Changes of antigenicity and loss of immunogenicity in long–standing class I MHC disparate pancreas allografts. Klempnauer J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1151

T–cell interactions with extracellular matrix proteins and endothelium in chronic renal allograft rejection. Korczak–Kowalska G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1057–9

Lymphocyte adhesion molecules in renal allograft rejection. Korczak–Kowalska G, et al. **Transplant Proc** 1996 Dec; 28(6):3437–8

Is sensitivity to cyclosporine influenced by the HLA–DR phenotype of kidney graft recipients? Kyriakopoulos G,

et al. **Transplant Proc** 1996 Dec;28(6):3294–5

Expression of platelet–derived growth factor in the development of cardiac allograft vasculopathy in the rat. Lemström K, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1045–6

High–dose cellular IL–10 exacerbates rejection and reverses effects of cyclosporine and tacrolimus in Mouse cardiac transplantation. Li W, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1081–2

Rejection of cardiac xenografts by NK cells and macrophages. Lin Y, et al. **Transplant Proc** 1997 Aug; 29(5):2354

Effect of cyclosporine and some derivatives on chronic rejection. Lu X, et al. **Transplant Proc** 1996 Dec; 28(6):3152–3

Interleukin–15 gene transcripts are present in rejecting islet allografts. Manfro RC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1077–8

Importance of the CD28/B7 costimulatory pathway in the development of chronic ductopenic rejection in a new model of orthotopic rat liver allotransplantation. Mark W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1029

Immunobiology of delayed xenograft rejection. Marquet RL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):955–6

Pig pancreatic islet xenografts in a B–cell–deficient mouse model. Mirenda V, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):762–3

Tissue–specific HLA class I restricted CTL are a significant subpopulation of graft–infiltrating lymphocytes during rejection. Mohanakumar T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):87–8

BT563 significantly decreases sIL–2R plasma levels despite acute allograft rejection. Mueller AR, et al. **Transplant Proc** 1996 Dec;28(6):3103–5

Inhibition of CD28–B7 T–cell costimulatory activation pathway affects intragraft cytokine and growth factor expression in chronic renal allograft rejection. Nadeau K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1038

Detection of clinically relevant antibodies pretransplant and posttransplant with PRA–STAT. The Anti–CD45 Study Group. Neylan J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):330–2

CD8+ host cells infiltrate the intestinal mucosa after allogeneic small bowel transplantation even in the absence of acute rejection. Nüssler NC, et al. **Transplant Proc** 1996 Oct;28(5):2456

Late acute rejection in renal allograft recipients is mediated by inflammatory rather than by cytotoxic T–cell–dependent mechanisms. Ode–Hakim S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):93–5

Both donor and recipient adhesion molecules play a crucial role in inducing rejection of rat xenogeneic islets in mice. Ohta Y, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):953

Different mechanisms of rejection of organ and cell allografts. Olszewski WL, et al. **Transplant Proc** 1996 Dec; 28(6):3444–6

Intrathymic microchimerism predicts rejection response in allograft recipients. Ota H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1214

Posttransplant antibody response and chronic rejection. Paul LC, et al. **Transplant Proc** 1997 Sep;29(6):2529–30

Does endotoxin accelerate rejection in a cardiac allograft model? Pirenne J, et al. **Transplant Proc** 1996 Oct; 28(5):2463–4

Impact of immunosuppression and acute rejection on hepatitis B recurrence. Platz KP, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):509–10

Hepatitis B recurrence in relation to immunosuppression and acute allograft rejection. Platz KP, et al. **Transplant Proc** 1996 Dec;28(6):3236–7

Intestinal allograft rejection in lipopolysaccharide–hyporesponsive mice. Quan D, et al. **Transplant Proc** 1996 Oct;28(5):2460–1

IL–2 and IL–4 double knock–out mice reject islet allografts: a role for novel T–cell growth factors? Roy–Chaudhury P, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1083–4

Knockout models of chronic cardiac rejection and graft arteriosclerosis: intimal thickening develops independent of Th1 and Th2 cytokines. Russell ME, et al. **Transplant Proc** 1997 Sep;29(6):2531–2

Graft arteriosclerosis: molecular features of macrophage activation. Russell ME. **Transplant Proc** 1997 Sep; 29(6):2542–3

Antibody and complement in graft rejection. Sanfilippo F, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):179–80 (26 ref.)

Stable mixed chimerism induced by total lymphoid irradiation or by total body irradiation is maintained by different mechanisms and leads to different graft versus leukemia or graft rejection reactions. Sefrioui H, et al. **Transplant Proc** 1997 Aug;29(5):2352

Rejection of Fas ligand–expressing grafts. Seino K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1092–3

Mechanisms of rejection of nonvascularized grafts: the role of perforin and Fas. Selvaggi G, et al. **Transplant Proc** 1997 Jun;29(4):2075–6

Intrarenal display of cytotoxic attack molecules during rejection. Sharma VK, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1090–1

Intragraft cellular events associated with tolerance in pig allografts: the "acceptance reaction". Shimizu A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1155

Role of a limited T–cell receptor V beta repertoire in alloantigen recognition and allograft rejection. Shirwan H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1050–1

Complement activation during rejection in experimental intestinal transplantation. Soin AS, et al. **Transplant Proc** 1997 May;29(3):1811–2

In vitro bioartificial skin culture model of tissue rejection and inflammatory/immune mechanisms. Strande LF, et al. **Transplant Proc** 1997 Jun;29(4):2118–9

Anti–HLA sensitization after renal transplant excision: a retrospective study in 84 patients. Suberbielle C, et al. **Transplant Proc** 1996 Oct;28(5):2814

Indirect T–cell recognition in human allograft rejection. Suciu–Foca N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2 /01):1012–3

Severe cyclosporine arteriolopathy with focal segmental glomerulosclerosis is not a fatal finding in chronic renal allograft failure after year 5 of transplantation using cyclosporine. Takeda A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):96–9

Nonspecific repeated skin graft sensitization induces liver allograft rejection in a spontaneously tolerant liver allograft model. Tanigawa T, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1047–9

Increased expression of ICAM–1 and VCAM–1 in the skin after administration of the first dose of OKT3. ten Berge RJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):325–7

CsA therapy affects the direct and indirect antigen–presentation pathway in cardiac allograft recipients. van Besouw NM, et al. **Transplant Proc** 1996 Dec;28(6):3135–6

Rejection and survival after total orthotopic liver–small bowel allotransplantation in pigs immunosuppressed with FK 506. Velio P, et al. **Transplant Proc** 1996 Oct; 28(5):2529–30

Increased presence of mast cells and interleukin–4 during chronic rejection of rat intestinal allografts. Walgenbach KJ, et al. **Transplant Proc** 1996 Oct;28(5):2454

Increased expression of transforming growth factor–beta during chronic rejection. Walgenbach KJ, et al. **Transplant Proc** 1996 Oct;28(5):2450

Immunocytes of composite tissue allografts express elevated levels of TGF beta mRNA and protein during chronic rejection. Walgenbach KJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1542

Preferential production of IgG2 antibodies by parenchymal lung B–lymphocytes during lung allograft rejection. Wilkes DS, et al. **Transplant Proc** 1997 May;29(3):1891–5

Rejection mechanism and immunosuppression by FK 506 and anti–leukocyte function associated antigen–1 antibody in concordant corneal xenotransplantation. Yamagami S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):943–4

Second–set rejection of skin allografts is mediated by a T cell subset in mice unable to mount a humoral response with cytotoxic antibodies. Yoshimura R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):868

CD45RB monoclonal antibody induces tolerance in the mouse kidney graft, but fails to prevent small bowel graft rejection. Zhang Z, et al. **Transplant Proc** 1996 Oct; 28(5):2514

Islet rejection in perforin–deficient mice: the role of perforin and Fas. Ahmed KR, et al. **Transplantation** 1997 Apr 15; 63(7):951–7

Cell and extracellular matrix rejection in arterial concordant and discordant xenografts in the rat. Allaire E, et al. **Transplantation** 1996 Sep 27;62(6):794–803

Xenograft rejection of porcine islet–like cell clusters in immunoglobulin– or Fc–receptor gamma–deficient mice. Benda B, et al. **Transplantation** 1996 Nov 15;62(9):1207–11

Apoptosis in murine cardiac grafts. Bergese SD, et al. **Transplantation** 1997 Jan 27;63(2):320–5

Role of non–major histocompatibility complex antigens in the rejection of transplanted myoblasts. Boulanger A, et al. **Transplantation** 1997 Mar 27;63(6):893–9

Comparison between aortic and sinusoidal liver endothelial cells as targets of hyperacute xenogeneic rejection in the pig to human combination. Cattan P, et al. **Transplantation** 1996 Sep 27;62(6):803–10

Mechanisms of indirect allorecognition in graft rejection: class II MHC allopeptide–specific T cell clones transfer delayed–type hypersensitivity responses in vivo. Chen W, et al. **Transplantation** 1996 Sep 27;62(6):705–10

Inhibition of complement, evoked antibody, and cellular response prevents rejection of pig–to–primate cardiac xenografts. Davis EA, et al. **Transplantation** 1996 Oct 15; 62(7):1018–23

Influence of macrophage depletion on bacterial translocation and rejection in small bowel transplantation. Fryer J, et al. **Transplantation** 1996 Sep 15;62(5):553–9

Porcine and bovine cartilage transplants in cynomolgus monkey: II. Changes in anti–Gal response during chronic rejection. Galili U, et al. **Transplantation** 1997 Mar 15; 63(5):646–51

Methylprednisolone pharmacodynamics assessed by antilymphocyte action in kidney transplantation: clinical relevance and utility [letter] Girardin C, et al. **Transplantation** 1996 Nov 15;62(9):1377

A role for gamma(delta)TCR+ cells in regulation of rejection of small intestinal allografts in rats. Gorczynski RM, et al. **Transplantation** 1996 Sep 27;62(6):844–51

Detection of HLA class I– and class II–specific antibodies by flow cytometry and PRA–STAT screening in renal transplant recipients. Harmer AW, et al. **Transplantation** 1997 Jun 27;63(12):1828–32

Production of IL–4 and IL–10 does not lead to immune quiescence in vascularized human organ grafts. Lang T, et al. **Transplantation** 1996 Sep 27;62(6):776–80

Factors involved in rejection of concordant xenografts in complement–deficient rats. Lin Y, et al. **Transplantation** 1997 Jun 27;63(12):1705–12

Murine marrow coexpressing H2–Dsp2 and H2–Db on host natural killer cell rejection. Liu J, et al. **Transplantation** 1997 Feb 15;63(3):444–9

Patterns of graft infiltration and cytokine gene expression during the first 10 days of kidney transplantation. McLean AG, et al. **Transplantation** 1997 Feb 15;63(3):374–80

Analysis of the B7 costimulatory pathway in allograft rejection. Pearson TC, et al. **Transplantation** 1997 May 27; 63(10):1463–9

Accelerated acute rejection of an apparent A2 renal allograft in an O recipient: report of a case with flow cytometric analysis. Pins MR, et al. **Transplantation** 1997 Apr 15; 63(7):984–8

Involvement of both the classical and alternate pathways of complement in an ex vivo model of xenograft rejection. Romanella M, et al. **Transplantation** 1997 Apr 15; 63(7):1021–5

Human cell–mediated rejection of porcine xenografts in an immunodeficient mouse model. Sawada T, et al. **Transplantation** 1997 May 15;63(9):1331–8

Fluorescence videomicroscopic assessment of xenogeneic microcirculation and impact of antibody removal by immunoadsorption. Seehofer D, et al. **Transplantation** 1997 Feb 15;63(3):460–5

Altered nonspecific lymphocyte cytotoxicity in bronchoalveolar lavage of lung transplant recipients: can it be useful in monitoring rejection or infection? Shennib H, et al. **Transplantation** 1996 Nov 15;62(9):1262–7

Human peripheral blood leukocyte–reconstituted severe combined immunodeficient mouse: analysis of the human immune response against porcine islet transplantation. Shiroki R, et al. **Transplantation** 1997 Mar 27;63(6):818–23

Alloreactive delayed–type hypersensitivity in graft recipients: complexity of responses and divergence from acute rejection. Sirak J, et al. **Transplantation** 1997 May 15; 63(9):1300–7

Porcine and bovine cartilage transplants in cynomolgus monkey: I. A model for chronic xenograft rejection. Stone KR, et al. **Transplantation** 1997 Mar 15;63(5):640–5

Graft–infiltrating cells in rats receiving orthotopic semiallogeneic small intestine transplantation with portal or systemic venous drainage. Sullivan B, et al. **Transplantation** 1996 Sep 27;62(6):715–21

The immune response following small bowel transplantation: I. An unusual pattern of cytokine expression. Toogood GJ, et al. **Transplantation** 1996 Sep 27;62(6):851–5

Blockade of proliferation and tumor necrosis factor–alpha production occurring during mixed lymphocyte reaction by interferon–gamma–specific natural antibodies contained in intravenous immunoglobulins. Toungouz M, et al. **Transplantation** 1996 Nov 15;62(9):1292–6

Rejection of spontaneously accepted rat liver allografts with recipientinterleukin–2 treatment or donor irradiation. Tu Y, et al. **Transplantation** 1997 Jan 27;63(2):177–81

Indirect allorecognition of major histocompatibility complex allopeptides in human renal transplant recipients with chronic graft dysfunction. Vella JP, et al. **Transplantation** 1997 Sep 27;64(6):795–800

Antibody–mediated rejection of human renal allografts: an electron microscopic study of peritubular capillaries. Lajoie G. **Ultrastruct Pathol** 1997 May–Jun;21(3):235–42

Presentation of the HPV16E7 protein by skin grafts is insufficient to allow graft rejection in an E7–primed animal. Dunn LA, et al. **Virology** 1997 Aug 18;235(1):94–103

[The significance of gender incompatibility in donors and recipients and the role of minor histocompatibility antigens in corneal transplantation] Hašková Z, et al. **Cesk Slov Oftalmol** 1997 May;53(2):128–35 (Eng. Abstr.) **(Cze)**

[Xenotransplantation in man. 1: Immunology of xenogenic graft rejection] Borie DC, et al. **Gastroenterol Clin Biol** 1996;20(11):972–81 (95 ref.) **(Fre)**

[Alveolar lavage cytological data in lung transplants free of bronchial superinfection. Toulouse Lung Transplantation Group] Courtade M, et al. **Rev Mal Respir** 1996; 13(4):413–20 (Eng. Abstr.) **(Fre)**

[Islets of Langerhans allografts in the pig: initial results] Andereggen E, et al. **Swiss Surg** 1995;(4):193–6; discussion 196–7 (Eng. Abstr.) **(Fre)**

[Mechanism of rejection of islet of Langerhans xenografts] Bühler L, et al. **Swiss Surg** 1995;(4):210–3 (Eng. Abstr.) **(Fre)**

[Time limited immunosuppression in allogenic nerve transplant in the rat] Lassner F, et al. **Handchir Mikrochir Plast Chir** 1996 Jul;28(4):176–80 (Eng. Abstr.) **(Ger)**

[Acute and chronic immune reactions after penetrating keratoplasty with normal immune risk] Reinhard T, et al. **Klin Monatsbl Augenheilkd** 1997 Mar;210(3):139–43 (Eng. Abstr.) **(Ger)**

[Purification of endocrine pancreas cells (pseudo–islets) prevents microvascular graft rejection after xenograft transplantation] Beger C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:233–6

(Eng. Abstr.) **(Ger)**

[Donor-specific tolerance induction by allopeptide immunization: an animal experiment study exemplified by allogenic heart transplantation in the rat model] Fändrich F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:719-24 (Eng. Abstr.) **(Ger)**

[Effect of omega-3 enriched lipid emulsions on experimental graft rejection] Grimm H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:173-9 (Eng. Abstr.) **(Ger)**

[Xenogenic acceptance, a realistic fantasy?] Hammer C. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:371-5 (Eng. Abstr.) **(Ger)**

[Mechanisms of accommodation in heart xenotransplants of hamster to rat] Hechenleitner P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:187-90 (Eng. Abstr.) **(Ger)**

[Heterotopic small intestine transplantation increases the effect of subclinical chronic rejection in the rat model] Heeckt PF, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:545-9 (Eng. Abstr.) **(Ger)**

[Tissue-specific tolerance induction by CD95 ligand expression] Hoffmann MW, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:285-8 (Eng. Abstr.) **(Ger)**

[Effect of lung transplantation of survival time of heart transplants in the xenogenic, discordant guinea pig-rat model] Kelm C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:539-43 (Eng. Abstr.) **(Ger)**

[Effect of specific CD26/dipeptidylpeptidase IV (DPP IV) inhibition on acute transplant rejection and immune response in allotransplant recipients] Korom S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:191-4 (Eng. Abstr.) **(Ger)**

[CD28/B7--an elementary, co-stimulatory signal of T-cell activation after orthotopic liver transplantation] Mark W, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:299-302 (Eng. Abstr.) **(Ger)**

[Laminin and hyaluronic acid as indicators for initial transplant function and acute rejection after small intestine transplantation] Müller AR, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:201-4 (Eng. Abstr.) **(Ger)**

[Effect of the ACE inhibitor enalapril on development of chronic rejection after orthotopic rat kidney transplantation] Schleimer K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:279-83 (Eng. Abstr.) **(Ger)**

[Intrathymic immunomodulation brings about a therapeutic window for systemic administration of CTLA4Ig in a model of accelerated rejection] Stadlbauer TH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:195-9 (Eng. Abstr.) **(Ger)**

[Effect of complement modulation with the soluble complement receptor sCR1 on survival and function of kidney xenotransplant. An experimental study with a new guinea pig to rate transplant model] Chrupcala M, et al. **Urologe A** 1996 Nov;35(6):478-84 (Eng. Abstr.) **(Ger)**

[Thy-1 induction and its tissue-specific regulation in the rat--studies on acute rejection and granulomatous inflammation] Takeuchi E. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):531-42 (Eng. Abstr.) **(Jpn)**

[Xenotransplantation] Bueno V, et al. **Rev Assoc Med Bras** 1995 Jul-Aug;41(4):284-92 (51 ref.) **(Por)**

[Rejection and immunosuppression] Charco R, et al. **Gastroenterol Hepatol** 1996 Oct;19(8):419-26 (24 ref.) **(Spa)**

METABOLISM

Effect of fusidic acid on pancreatic islet allograft rejection. Mendola JF, et al. **Cell Transplant** 1997 Jan-Feb;6(1):39-45

Expression and localization of platelet-derived growth factor ligand and receptor protein during acute and chronic rejection of rat cardiac allografts. Lemström KB, et al. **Circulation** 1997 Aug 19;96(4):1240-9

Effects of mycophenolic acid mofetil on acute rejection of kidney allografts in rats. Heemann U, et al. **Clin Nephrol** 1996 May;45(5):355-7

Increased synthesis of specific eicosanoids in rejected corneal grafts. Lin N, et al. **Curr Eye Res** 1996 Dec;15(12):1208-12

Lack of correlation between rejection of tumor cells co-expressing interleukin-2 and B7.1 and vaccine efficiency. Cayeux S, et al. **Eur J Immunol** 1997 Jul; 27(7):1657-62

Relationship between alpha-smooth muscle actin expression and fibrotic changes in human kidney. Boukhalfa G, et al. **Exp Nephrol** 1996 Jul-Aug;4(4):241-7

The status of B2 receptors in acute renal transplant rejection. Naidoo S, et al. **Immunopharmacology** 1996 Jun; 33(1-3):157-60

Nitric oxide production during the hyperacute vascular rejection. Castillo J, et al. **J Surg Res** 1996 Jul 1; 63(2):375-80

A dose-searching trial of an anti-LFA1 monoclonal antibody in first kidney transplant recipients. Le Mauff B, et al. **Kidney Int Suppl** 1996 Jan;53:S44-50

Intragraft expression of T-cell activation genes in human renal allograft rejection. Pavlakis M, et al. **Kidney Int Suppl** 1996 Jan;53:S7-12 (49 ref.)

Metabolic abnormalities in renal transplant recipients. Risk factors and predictors of chronic graft dysfunction? [editorial] Dimény E, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):21-4 (25 ref.)

Expression of cell adhesion molecules in primary renal disease and renal allograft rejection. Hauser IA, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1122-31

Mycophenolate mofetil inhibits lymphocyte binding and the upregulation of adhesion molecules in acute rejection of rat kidney allografts. Heemann U, et al. **Transpl Immunol** 1996 Mar;4(1):64-7

Adhesion molecules and activation markers in acute rejection of human renal allografts. von Willebrand E, et al. **Transpl Immunol** 1996 Mar;4(1):57-8

Collagens in chronic rejection of rat renal allografts. Inkinen K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1543-4

The receptor for hyaluronan-mediated motility is expressed in human renal allografts and is correlated with Banff chronic rejection scores. Routledge MW, et al. **Transplant Proc** 1997 Sep;29(6):2603-4

Variable oral absorption of cyclosporine. A biopharmaceutical risk factor for chronic renal allograft rejection. Kahan BD, et al. **Transplantation** 1996 Sep 15; 62(5):599-606

Cytokine pattern during rejection and infection after liver transplantation--improvements in postoperative monitoring? Platz KP, et al. **Transplantation** 1996 Nov 27; 62(10):1441-50

Expression of HGF mRNA in human rejecting kidney as evidenced by in situ hybridization. Yamaguchi K, et al. **Urol Res** 1996;24(6):349-54

[IL-2, IL-2R mRNA gene expression and protein production] Li Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):505-8 (Eng. Abstr.) **(Chi)**

MICROBIOLOGY

Influence of macrophage depletion on bacterial translocation and rejection in small bowel transplantation. Fryer J, et al. **Transplantation** 1996 Sep 15;62(5):553-9

MORTALITY

Early identification of patients at risk of death due to infections, hemorrhage, or graft failure after allogeneic bone marrow transplantation on the basis of the leukocyte counts. Mehta J, et al. **Bone Marrow Transplant** 1997 Feb; 19(4):349-55

Long conservation organs in heart transplantation: postoperative results and long-term follow-up in fourteen patients. Obadia JF, et al. **J Heart Lung Transplant** 1997 Feb;16(2):256-9

PATHOLOGY

Nonimmunologic factors involved in long-term renal allograft deterioration. Fellström BC, et al. **Adv Nephrol Necker Hosp** 1996;25:51-62 (63 ref.)

Chronic rejection: is allograft destruction an inevitable phenomenon? Kreis H, et al. **Adv Nephrol Necker Hosp** 1996;25:3-15 (44 ref.)

Potential involvement of growth factors in the proliferation of arteriolar smooth muscle cells during chronic graft rejection. Vuillemin T, et al. **Adv Nephrol Necker Hosp** 1996;25:39-49 (26 ref.)

Histopathology of renal posttransplant lymphoproliferation: comparison with rejection using the Banff schema. Randhawa P, et al. **Am J Kidney Dis** 1996 Oct;28(4):578-84

Significance of the Banff borderline biopsy. Schweitzer EJ, et al. **Am J Kidney Dis** 1996 Oct;28(4):585-8

Kidney allograft with a lymphocytic infiltrate: acute rejection, posttransplantation lymphoproliferative disorder, neither, or both entities? Trpkov K, et al. **Am J Kidney Dis** 1997 Sep;30(3):449-54

Study of morphologic risk factors in graft biopsies from patients with living related donor kidney transplants. Moustafa F, et al. **Am J Nephrol** 1996;16(2):98-105

Effects of complement inhibition with soluble complement receptor-1 on vascular injury and inflammation during renal allograft rejection in the rat. Pratt JR, et al. **Am J Pathol** 1996 Dec;149(6):2055-66

Chronic rejection causes early destruction of the intrinsic nervous system in rat intestinal transplants. Heeckt PF, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G413-21

Epithelial rejection rings. Driebe WT Jr, et al. **Arch Ophthalmol** 1997 Jul;115(7):938-9

Solitary pancreas allografts. The role of percutaneous biopsy and standardized histologic grading of rejection. Kuo PC, et al. **Arch Surg** 1997 Jan;132(1):52-7

Targeting an anti-viral CD8+ T cell response to a growing tumor facilitates its rejection. Böhm W, et al. **Cancer Immunol Immunother** 1997 Jun;44(4):230-8

Intimal thickening develops without humoral immunity in a mouse aortic allograft model of chronic vascular rejection. Chow LH, et al. **Circulation** 1996 Dec 15; 94(12):3079-82

Adhesion molecule P-selectin and vascular cell adhesion molecule-1 in enhanced heart allograft arteriosclerosis in the rat. Koskinen PK, et al. **Circulation** 1997 Jan 7; 95(1):191-6

Apoptosis of cardiac myocytes during cardiac allograft rejection. Relation to induction of nitric oxide synthase. Szabolcs M, et al. **Circulation** 1996 Oct 1;94(7):1665-73

Assessment of chronic rejection in permanent accepted renal allografts in anti-CD4 treated rats. Risch K, et al. **Clin Nephrol** 1996 May;45(5):358-60

Routine early biopsy of allografts with delayed function: correlation of histopathology and transplant outcome. Gaber LW, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):629-34

Significance of tubulitis in chronic allograft nephropathy: a clinicopathologic study. Tsamandas AC, et al. **Clin Transplant** 1997 Apr;11(2):139-41

Inflammatory cells and activation markers in BAL during acute rejection and infection in lung transplant recipients: a prospective, longitudinal study. Riise GC, et al. **Eur Respir J** 1997 Aug;10(8):1742-6

Infiltrating inflammatory cell phenotypes and apoptosis in rejected human corneal allografts. Larkin DF, et al. **Eye** 1997;11 (Pt 1):68-74

Banff schema for grading liver allograft rejection: an international consensus document. **Hepatology** 1997 Mar; 25(3):658-63 (42 ref.)

Quantitative evaluation of histological features in "time-zero" liver allograft biopsies as predictors of rejection or graft failure: receiver-operating characteristic analysis application. Abraham S, et al. **Hum Pathol** 1996 Oct; 27(10):1077-84

External jugular vein approach for percutaneous right ventricular biopsy. Anderson AS, et al. **J Heart Lung Transplant** 1997 May;16(5):576-8

Effect of oligosaccharides on rejection and reperfusion injury after lung transplantation. Brandt M, et al. **J Heart Lung Transplant** 1997 Mar;16(3):352-9

A comparison of the cytology of endomyocardial biopsy washings from heart transplants with biopsy histologic study and peripheral blood lymphocyte counts. Clelland C, et al. **J Heart Lung Transplant** 1997 May;16(5):477-83

Cardiac allograft rejection: do trough cyclosporine levels correlate with the grade of histologic rejection? el Gamel A, et al. **J Heart Lung Transplant** 1997 Mar;16(3):268-74

Identification of programmed cell death (apoptosis) in situ by means of specific labeling of nuclear DNA fragments in heart biopsy samples during acute rejection episodes. Laguens RP, et al. **J Heart Lung Transplant** 1996 Sep; 15(9):911-8

A histopathologic grading system of hyperacute (humoral, antibody-mediated) cardiac xenograft and allograft rejection. Rose AG, et al. **J Heart Lung Transplant** 1996 Aug;15(8):804-17

Diltiazem preserves direct vasodilator response but fails to suppress intimal proliferation in rat allograft coronary artery disease. Takami H, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):67-77

Myocardial apoptosis in a heterotopic murine heart transplantation model of chronic rejection and graft vasculopathy. White WL, et al. **J Heart Lung Transplant** 1997 Feb;16(2):250-5

Prevention by anti-LFA-1 of acute myoblast death following transplantation. Guérette B, et al. **J Immunol** 1997 Sep 1; 159(5):2522-31

Eosinophilic droplets similar to red cells are present in the hyperacute rejection of heart xenografts [letter; comment] Beranek JT. **J Intern Med** 1997 Jan;241(1):89-90. Comment on: J Intern Med 1996 Apr;239(4):287-97.

Histologic and histochemical changes in failed auricular cartilage grafts used for a temporomandibular joint disc replacement: a report of three cases and review of the literature. Sandler NA, et al. **J Oral Maxillofac Surg** 1997 Sep;55(9):1014-9 (26 ref.)

Atubular glomeruli and glomerular cysts--a possible pathway for nephron loss in the human kidney? Gibson IW, et al. **J Pathol** 1996 Aug;179(4):421-6

Histology of rat small bowel transplants: cyclosporine A ameliorates features of rejection including apoptosis and ganglion cell reduction. Collins MH, et al. **J Pediatr Surg** 1997 Apr;32(4):555-9

Predominant Th1 cell infiltration in acute rejection episodes of human kidney grafts. D'Elios MM, et al. **Kidney Int** 1997 Jun;51(6):1876-84

Key features distinguishing post-transplantation lymphoproliferative disorders and acute liver rejection. Rizkalla KS, et al. **Mod Pathol** 1997 Jul;10(7):708-15

A UK-wide trial of the Banff classification of renal transplant pathology in routine diagnostic practice. Furness PN, et al. **Nephrol Dial Transplant** 1997 May;12(5):995-100

Reproducibility of fine-needle aspiration biopsy in the diagnosis of acute rejection of renal allografts. Manfro RC, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2306-9

Allograft immune response with sCR1 intervention. Pratt JR, et al. **Transpl Immunol** 1996 Mar;4(1):72-5

A rat model of monitoring liver allograft rejection. Martelius T, et al. **Transpl Int** 1997;10(2):103-8

Rejection of human liver allografts: immuno-histopathologic relationship and direct allorecognition of donor antigens by T lymphocytes. Arvieux C, et al. **Transplant Proc** 1996 Oct;28(5):2849-50

Assessment of intestinal preservation injury and duodenal rejection in a multivisceral allotransplantation model in the pig. Balén E, et al. **Transplant Proc** 1996 Oct;28(5):2646-7

Comparison between two strategies for rejection detection after heart transplantation: routine endomyocardial biopsy versus gallium-67 cardiac imaging. Bocchi EA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):586-8

Infiltrating recipient mesenchymal cells form the obliterative airway disease lesion and dramatically remodel graft tissue

in a model of chronic lung rejection. Brazelton TR, et al. **Transplant Proc** 1997 Sep;29(6):2614

Enteric-drained pancreas transplants monitored by fine-needle aspiration biopsy. Egidi MF, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):674-5

Renal histology with varying FK506 blood levels. Gaber LW, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):186

Serotonin (5-HT): an enteroendocrine marker of rejection after small bowel allotransplantation in the pig. Galmarini D, et al. **Transplant Proc** 1997 May;29(3):1830-2

Immunobiology and pathology of chronic rejection. Häyry P, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):77-8 (17 ref.)

Biopsy-proven chronic rejection in living donor kidney transplantation--risk factors and graft survival. Kim SI, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):100

Histologic spectrum of acute cellular rejection in human intestinal allografts. Lee RG, et al. **Transplant Proc** 1996 Oct;28(5):2767

Expression of intracellular adhesion molecule-1 on the parenchymal cells of the kidney in graft recipients. Lodererová A, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):173-4

CMV causes bile duct destruction and arterial lesions in rat liver allografts. Martelius T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):796-7

Fas antigen expression and apoptosis in kidney allografts. Matsuno T, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):177-8

Electron-microscopic peritubular capillary lesion is a specific and useful diagnostic indicator for chronic rejection of renal allografts showing less specific morphologic lesions in the cyclosporine era. Morozumi K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):89-92

Rejection of the colon versus ileum in a pig model of total bowel transplantation. Nakhleh RE, et al. **Transplant Proc** 1996 Oct;28(5):2445-6

Influence of arterial allograft preparation techniques on chronic vascular rejection: a histological study. Nataf P, et al. **Transplant Proc** 1996 Oct;28(5):2890-2

Intraglomerular protein accumulation in chronically rejected human kidney allografts. Paczek L, et al. **Transplant Proc** 1996 Dec;28(6):3449-51

Identification of histological features differentiating pancreatic allograft rejection from nonrejection-related pathology in needle biopsies. Papadimitriou JC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):679

A chronic large animal model of lung allograft rejection. Schmid RA, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1521

Nonspecific primary ischemia/reperfusion injury in combination with secondary specific acute rejection-mediated injury of human kidney allografts contributes mainly to development of chronic transplant failure. Schneeberger H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):948-9

Magnetic resonance imaging in assessment of rejection of a kidney allograft in the rat: effect of the somatostatin analogue SMS 201-995. Schuurman HJ, et al. **Transplant Proc** 1996 Dec;28(6):3272-5

Myocytolysis in heart transplant patients. Sgrosso JL, et al. **Transplant Proc** 1996 Dec;28(6):3325-7

Early diagnosis of cardiac rejection by in situ detection of nonmuscle myosin heavy chain transcription. Suzuki J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1512

Prospective evaluation of endoscopy in acute cellular rejection and cytomegalovirus infection. Tabasco-Minguillán J, et al. **Transplant Proc** 1996 Oct; 28(5):2778-9

Endoscopic features of acute cellular rejection. Tabasco-Minguillán J, et al. **Transplant Proc** 1996 Oct; 28(5):2765-6

Combined orthotopic liver-small bowel transplantation or small bowel transplantation in pigs: relations between survival, rejection, and mucosal morphometry. Velio P, et al. **Transplant Proc** 1997 May;29(3):1840-1

Adhesion molecules and their ligands in chronic rejection of human renal allografts. von Willebrand E, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1530-1

In situ expression of cell growth factors in human renal chronic graft rejection. Vuillemin T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1513-4

Chronic rejection and cell growth factors. Vuillemin T, et al. **Transplant Proc** 1996 Oct;28(5):2831-2

Preferential production of IgG2 antibodies by parenchymal lung B-lymphocytes during lung allograft rejection. Wilkes DS, et al. **Transplant Proc** 1997 May;29(3):1891-5

Apoptosis in bronchiolitis obliterans, chronic rejection and infection after lung transplantation in rats. Yagyu K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1532-5

Expression and distribution of thrombomodulin on endothelial cells in kidney transplants with acute vascular rejection. Yamaguchi Y, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):164-6

Retransplantation and reversibility of chronic vascular rejection. Zheng SX, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1541

Myocardial pseudovascular tubes are present in the delayed rejection of heart xenografts [letter; comment] Beranek JT. **Transplantation** 1997 Feb 15;63(3):486-7. Comment on: Transplantation 1994 Mar 27;57(6):900-6.

T cell independence of macrophage and natural killer cell infiltration, cytokine production, and endothelial activation during delayed xenograft rejection. Candinas D, et al. **Transplantation** 1996 Dec 27;62(12):1920-7

Irreversible chronic vascular rejection occurs only after development of advanced allograft vasculopathy: a comparative study of a rat cardiac allograft model using a retransplantation protocol. Forbes RD, et al. **Transplantation** 1997 Mar 15;63(5):743-9

Selective increase in CD4-positive graft-infiltrating mononuclear cells among the infiltrates in class I disparate kidney grafts undergoing rejection. Giangrande I, et al. **Transplantation** 1997 Mar 15;63(5):722-8

Monocyte chemotactic peptide-1 expression and monocyte infiltration in acute renal transplant rejection. Grandaliano G, et al. **Transplantation** 1997 Feb 15;63(3):414-20

At what stage does pancreas allograft rejection become irreversible?: an experimental study. Königsrainer A, et al. **Transplantation** 1997 Mar 15;63(5):631-5

Patterns of graft infiltration and cytokine gene expression during the first 10 days of kidney transplantation. McLean AG, et al. **Transplantation** 1997 Feb 15;63(3):374-80

The effect of small bowel transplantation on the morphology and physiology of intestinal muscle: a comparison of autografts versus allografts in dogs. Sugitani A, et al. **Transplantation** 1997 Jan 27;63(2):186-94

New strategies for early diagnosis of heart allograft rejection. Tugulea S, et al. **Transplantation** 1997 Sep 27;64(6):842-7

Treatment with an antioxidant inhibits vascular changes caused by circulating lymphocytes during acute lung rejection in dogs. Wiklund L, et al. **Transplantation** 1997 Sep 27;64(6):807-11

Tacrolimus therapy for refractory acute renal allograft rejection: definition of the histologic response by protocol biopsies. Woodle ES, et al. **Transplantation** 1996 Oct 15; 62(7):906-10

[Effect of adjuvant cytostasis after organ transplantation: an experimental study with a combined transplantation-tumor model] Zimmermann T, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:551-4 (Eng. Abstr.) **(Ger)**

[Role of the pathologist in the clinical management of the heart transplant patient (editorial)] Baroldi G. **Cardiologia** 1995 Oct;40(10):713-6 **(Ita)**

[Effects of rejection on the contractile reserve of the graft after heart transplantation] Bellotti G, et al. **Arq Bras Cardiol** 1996 Jul;67(1):5-9 (Eng. Abstr.) **(Por)**

[Usefulness of HLA-DR expression in tubular cells of transplanted kidney for the diagnosis of rejection (see comments)] Almirall J, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):481-5 (Eng. Abstr.). Comment in: Med Clin (Barc) 1996 Oct 19;107(13):495-7. **(Spa)**

[Diagnosis of renal transplantation rejection (editorial; comment)] Robles NR. **Med Clin (Barc)** 1996 Oct 19; 107(13):495-7. Comment on: Med Clin (Barc) 1996 Oct 19;107(13):481-5. **(Spa)**

PHYSIOPATHOLOGY

Potential involvement of growth factors in the proliferation of arteriolar smooth muscle cells during chronic graft rejection. Vuillemin T, et al. **Adv Nephrol Necker Hosp** 1996;25:39-49 (26 ref.)

The pathophysiology of chronic rejection. Guttmann RD, et al. **Am J Med Sci** 1997 May;313(5):302-4

Effects of mononuclear cells on pulmonary arteries from rejecting transplanted lungs. Wiklund L, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L379-84

TNF alpha mRNA and protein in cardiac transplant biopsies: comparison with serum TNF alpha levels. Azzawi M, et al. **Cardiovasc Res** 1996 Sep;32(3):551-6

Natural course of moderate cardiac allograft rejection (International Society for Heart Transplantation grade 2) early and late after transplantation. Brunner-La Rocca HP, et al. **Circulation** 1996 Sep 15;94(6):1334-8

Effect of nifedipine on renal allograft function and survival beyond one year. Shin GT, et al. **Clin Nephrol** 1997 Jan; 47(1):33-6

Impact of first acute rejection episode and severity of rejection on cadaveric renal allograft survival. Hariharan S, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):538-41

Analysis of factors affecting the graft oxygenation state in living related liver transplantation. Tokuka A, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1203-11

Changes in portal hemodynamics and acute rejection in the first 2 weeks after orthotopic liver transplantation. A prospective Doppler ultrasound study. Kok T, et al. **Invest Radiol** 1996 Dec;31(12):774-80

Time course of coronary endothelial dysfunction in acute untreated rejection after heterotopic heart transplantation. Perrault LP, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):643-57

Impaired endothelium-mediated vasodilatation in the peripheral vasculature of patients with acute pulmonary allograft rejection. Scherstén H, et al. **J Heart Lung Transplant** 1996 Jun;15(6):556-63

Eosinophils are not required for the rejection of neovascularized fetal pig proislet xenografts in mice. Simeonovic CJ, et al. **J Immunol** 1997 Mar 1;158(5):2490-9

Motor and sensory specificity of host nerve axons influence nerve allograft rejection. Midha R, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):421-34

Hyperacute xenograft rejection as an immunologic barrier to xenotransplantation. Daniels LJ, et al. **Kidney Int Suppl** 1997 Mar;58:S28-35 (72 ref.)

Mast cells in acute cellular rejection of human renal allografts. Lajoie G, et al. **Mod Pathol** 1996 Dec; 9(12):1118-25

Adhesion molecules in rejection and tolerance of allografts. Hourmant M, et al. **Nephrol Dial Transplant** 1996 Aug; 11(8):1661-6

Risk factors for chronic rejection in pediatric renal allograft recipients. Guyot C, et al. **Pediatr Nephrol** 1996 Dec; 10(6):723-7

Impact of age on renal graft survival in children after the first rejection episode. Ingulli E, et al. **Pediatr Nephrol** 1996 Aug;10(4):474-8

The relative influence of delayed graft function and acute rejection on renal transplant survival. Nicholson ML, et al. **Transpl Int** 1996;9(4):415-9 (29 ref.)

Measurement of portal venous flow velocity with an implantable miniature Doppler probe in pig liver transplantation. Yokoyama I, et al. **Transpl Int** 1997; 10(2):116-20

Accommodation of xenografts: expression of "protective genes" in endothelial and smooth muscle cells. Bach FH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):56-8

Transplantation-induced injuries of the intestinal muscularis and its innervation: from preservation to chronic rejection. Bauer AJ. **Transplant Proc** 1996 Oct;28(5):2539-41 (11 ref.)

Platelet-endothelial cell interactions in a xenograft model. Bustos M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):886

Reduced intestinal myoelectrical activity during rejection of small bowel allografts in pigs. Costa A, et al. **Transplant Proc** 1996 Oct;28(5):2554-5

Small bowel myoelectrical activity after transplantation in pigs: motility versus ACR score. Costa A, et al. **Transplant Proc** 1997 May;29(3):1809-10

Lipid metabolism and oxidative stress in renal transplantation: implications for chronic rejection. Cristol JP, et al. **Transplant Proc** 1996 Oct;28(5):2820-1

The "injury response": a concept linking nonspecific injury, acute rejection, and long-term transplant outcomes. Halloran PF, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):79-81 (22 ref.)

Pathophysiology of chronic rejection. Häyry P. **Transplant Proc** 1996 Dec;28(6 Suppl 1):7-10 (30 ref.)

Clinical and immunological characteristics of transplant recipients with recurrent acute rejection episodes. Jacobs U, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):181-3

Early acute rejection after hepatic graft reperfusion: association with ischemic injury with good function, oxygenation heterogeneity, and leukocyte adhesion without aggregation. Kiuchi T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):364-5

Chronic rejection as a risk factor for deterioration of renal allograft function following pregnancy. Kozłowska-Boszko B, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1522-3

CMV increases inflammation and accelerates chronic rejection in rat kidney allografts. Lautenschlager I, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):802-3

Paneth and goblet cells modify their sugar moieties during acute rejection and up to one year after small bowel transplantation in rats. Michalski S, et al. **Transplant Proc** 1996 Oct;28(5):2477-8

Role of thymostimulin in activating rejection in an experimental small bowel allograft. Navarro-Zorraquino M, et al. **Transplant Proc** 1996 Oct;28(5):2479-81

Intestinal neurons in acute and chronic rejection after small bowel transplantation in dogs. Sugitani A, et al. **Transplant Proc** 1996 Oct;28(5):2543

Mucosal reactivity of the intestinal allograft during acute rejection. Tabasco-Minguillán J, et al. **Transplant Proc** 1996 Oct;28(5):2576-7

Mucosal perfusion in the rat intestinal allograft during acute rejection. Tabasco-Minguillán J, et al. **Transplant Proc** 1996 Oct;28(5):2578-80

Loss of intestinal integrity following small bowel transplant rejection in the rat. Teitelbaum DH, et al. **Transplant Proc** 1996 Oct;28(5):2547-8

Local production of nitric oxide in acute rejection of rat lung allografts. Utsumi T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1511

Multidrug resistance gene MDR1 expression: a gene transfection in vitro model and clinical analysis in cyclosporine-treated patients rejecting their renal grafts. Zanker B, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1507-8

Impact of acute rejection and early allograft function on renal allograft survival. Cosio FG, et al. **Transplantation** 1997 Jun 15;63(11):1611-5

The impact of acute rejection on the development of intimal hyperplasia associated with chronic rejection. Hullett DA, et al. **Transplantation** 1996 Dec 27;62(12):1842-6

Long-term renal allograft survival: prognostic implication of the timing of acute rejection episodes. Leggat JE Jr, et al. **Transplantation** 1997 May 15;63(9):1268-72

[Does acute graft rejection modify subsequent function of a transplanted liver?] Seiler CA, et al. **Swiss Surg** 1995; (4):186-7 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Prevention of pancreatic islet xenograft rejection by dietary vitamin E. Vajkoczy P, et al. **Am J Pathol** 1997 Apr; 150(4):1487-95

Corticosteroid resistance in other disease states and tissues. Lane SJ, et al. **Am J Respir Crit Care Med** 1996 Aug;154(2 Pt 2):S62–5 (15 ref.)

The use of HMG–CoA reductase inhibitors to prevent accelerated graft atherosclerosis in heart transplant patients. Southworth MR, et al. **Ann Pharmacother** 1997 Apr; 31(4):489–91 (32 ref.)

Impact of cyclosporin on the incidence and prevalence of chronic rejection in renal transplants. Beckingham IJ, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):138–42

Fetal inoculation with donor cells in cardiac xenotransplantation. Shen Z, et al. **Ann Thorac Surg** 1996 Nov;62(5):1360–3

Selective immunomodulation: utilization of CD29/VLA molecules. Morimoto C, et al. **Artif Organs** 1996 Aug; 20(8):828–31 (29 ref.)

alpha–Galactosyl oligosaccharides conjugated with polyethylene glycol as potential inhibitors of hyperacute rejection upon xenotransplantation. Nagasaka T, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):731–6

A novel method of myeloablation to enhance engraftment of adult bone marrow cells in newborn mice. Yoder MC, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):59–67

Host F1 mice pretreated with granulocyte colony–stimulating factor accept parental bone marrow grafts in hybrid resistance system. Iizuka K, et al. **Blood** 1997 Feb 15;89(4):1446–51

Itraconazole more bioavailable in solution [letter] Prentice AG, et al. **Blood** 1996 Nov 1;88(9):3662–3

Lymphotropic herpesviruses in allogeneic bone marrow transplantation. Wang FZ, et al. **Blood** 1996 Nov 1; 88(9):3615–20

Cyclosporin A–induced ocular flutter after marrow transplantation. Apsner R, et al. **Bone Marrow Transplant** 1997 Aug;20(3):255–6

Lenograstim administration to HLA–identical donor–recipient pairs to accelerate marrow recovery post–transplant. Atkinson K, et al. **Bone Marrow Transplant** 1997 Jan;19(1):15–21

Allogeneic bone marrow transplantation with matched unrelated donors for patients with hematologic malignancies using a preparative regimen of high–dose cyclophosphamide and fractionated total body irradiation. Geller RB, et al. **Bone Marrow Transplant** 1997 Aug; 20(3):219–25

The treatment of relapsed or refractory intermediate grade non–Hodgkin's lymphoma with autologous bone marrow transplantation followed by cyclosporine and interferon. Gryn J, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):221–6

Busulphan kinetics and limited sampling model in children with leukemia and inherited disorders. Hassan M, et al. **Bone Marrow Transplant** 1996 Nov;18(5):843–50

Cyclosporine–induced retinal toxic blindness. López–Jiménez J, et al. **Bone Marrow Transplant** 1997 Aug;20(3):243–5

Minimizing graft rejection in allogeneic T cell–depleted bone marrow transplantation. Rigden JP, et al. **Bone Marrow Transplant** 1996 Nov;18(5):913–9

Ribavirin therapy in bone marrow transplant recipients with viral respiratory tract infections. Sparrelid E, et al. **Bone Marrow Transplant** 1997 May;19(9):905–8

Tacrolimus (FK506) in allogeneic bone marrow transplantation for severe aplastic anemia following orthotopic liver transplantation. Trede NS, et al. **Bone Marrow Transplant** 1997 Aug;20(3):257–60

Synergistic mechanisms by which sirolimus and cyclosporin inhibit rat heart and kidney allograft rejection. Stepkowski SM, et al. **Clin Exp Immunol** 1997 Apr;108(1):63–8

A review of clinical experience with the novel immunosuppressive drug mycophenolate mofetil in renal transplantation. Behrend M. **Clin Nephrol** 1996 May; 45(5):336–41 (13 ref.)

Increased dermal expression of ICAM–1 and VCAM–1 after administration of OKT3 in man. Buysmann S, et al. **Clin Nephrol** 1996 Aug;46(2):84–91

Antagonists of cyclic nucleotide phosphodiesterase (PDE) isozymes PDE 3 and PDE 4 suppress lymphoblastic response to HLA class II alloantigens: a potential novel approach to preventing allograft rejection? Dousa MK, et al. **Clin Nephrol** 1997 Mar;47(3):187–9

Influence of cyclosporine A and FK506 on 24 h blood pressure monitoring in kidney transplant recipients. Hohage H, et al. **Clin Nephrol** 1996 May;45(5):342–4

Experimental and clinical experience with the use of tacrolimus (FK506) in kidney transplantation. Wagner K, et al. **Clin Nephrol** 1996 May;45(5):332–5 (17 ref.)

The use of other drugs to allow a lower dosage of cyclosporin to be used. Therapeutic and pharmacoeconomic considerations. Jones TE. **Clin Pharmacokinet** 1997 May; 32(5):357–67 (100 ref.)

Anti–CD4 monoclonal antibody therapy. Delmonico FL, et al. **Clin Transplant** 1996 Oct;10(5):397–403

Preoperative application of glucocorticosteroids efficaciously reduces the primary immunological response in kidney transplantation. Fricke L, et al. **Clin Transplant** 1996 Oct; 10(5):432–6

Induction immunosuppressive therapy is associated with a low rejection rate after liver transplantation. McVicar JP, et al. **Clin Transplant** 1997 Aug;11(4):328–33

Antilymphocyte induction immunosuppression in the post–Minnesota anti–lymphocyte globulin era: incidence of renal dysfunction and delayed graft function. A single center experience. Malinow L, et al. **Clin Transplant** 1996 Jun;10(3):237–42

Cyclophosphamide in cardiac transplant recipients with frequent rejection: a six–year retrospective review. Wagoner LE, et al. **Clin Transplant** 1996 Oct;10(5):437–43

The effect of HMG–CoA reductase inhibitors on chronic allograft rejection. Katznelson S. **Contrib Nephrol** 1997; 120:97–104 (50 ref.)

Arterial hypertension in renal transplantation. Sandrini S, et al. **Contrib Nephrol** 1996;119:16–25 (61 ref.)

Effects of pravastatin in heart transplant recipients: implications of Kobashigawa et al. Gotto AM Jr. **Curr Opin Lipidol** 1995 Dec;6(6):341–3

Mycophenolate mofetil in kidney transplantation. Lui SL, et al. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):508–13 (54 ref.)

Preliminary risk–benefit assessment of mycophenolate mofetil in transplant rejection. Simmons WD, et al. **Drug Saf** 1997 Aug;17(2):75–92 (68 ref.)

Mycophenolate mofetil for the transplanted kidney? **Drug Ther Bull** 1997 May;35(5):38–40 (9 ref.)

Muromonab CD3: a reappraisal of its pharmacology and use as prophylaxis of solid organ transplant rejection. Wilde MI, et al. **Drugs** 1996 May;51(5):865–94 (214 ref.)

Immunosuppressive effect of bovine seminal ribonuclease on a model of corneal transplantation in rabbit. Filipec M, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Sep; 234(9):586–90

Inhibition of corneal allograft reaction by CTLA4–Ig. Hoffmann F, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Aug;235(8):535–40

Systemic ciclosporin A in high–risk keratoplasties. Reinhard T, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S115–21

Central corneolimbal transplantation under systemic ciclosporin A cover for severe limbal stem cell insufficiency. Sundmacher R, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S122–5

A randomized clinical trial of ursodeoxycholic acid as adjuvant treatment to prevent liver transplant rejection. Barnes D, et al. **Hepatology** 1997 Oct;26(4):853–7

Soluble HLA class I antigens in pediatric patients with renal transplants from related living donors without acute rejection and treated with triple therapy. Tambutti ML, et al. **Hum Immunol** 1996 Oct;50(2):135–9

Immunosuppression by anti–ICAM–1 and anti–LFA–1 monoclonal antibodies of free and vascularized skin allograft rejection. Iwata T, et al. **Immunobiology** 1996 Jul; 195(2):160–71

CD4 monoclonal antibody VIT4 in human alloimmune response in vitro and in vivo. Nachbaur D, et al. **Immunobiology** 1996 Jan;195(1):33–46

Synthetic peptides derived from human MHC class I sequences delay allograft rejection in rodents and inhibit cell–mediated cytotoxicity in vivo and in vitro. Cuturi MC, et al. **Immunol Rev** 1996 Dec;154:5–20 (56 ref.)

Transplantation of discordant xenografts: a challenge revisited. Parker W, et al. **Immunol Today** 1996 Aug; 17(8):373–8 (53 ref.)

Correlation of anterior chamber–associated immune deviation with suppression of corneal epithelial rejection in mice. Yao YF, et al. **Invest Ophthalmol Vis Sci** 1997 Feb; 38(2):292–300

A logistic–regression model provides novel guidelines to maximize the anti–acute rejection properties of cyclosporine with a minimum of toxicity. Perna A, et al. **J Am Soc Nephrol** 1996 May;7(5):786–91

Randomized study with cyclosporine in kidney transplantation: 10–year follow–up. Ponticelli C, et al. **J Am Soc Nephrol** 1996 May;7(5):792–7

Higher maintenance cyclosporine dose decreases the risk of graft failure in North American children: a report of the North American Pediatric Renal Transplant Cooperative Study. Tejani A, et al. **J Am Soc Nephrol** 1996 Apr; 7(4):550–5

Relationship of whole–blood FK506 concentrations to rejection and toxicity in liver and kidney transplants. Hedayat S, et al. **J Biopharm Stat** 1996 Nov;6(4):411–24

Reversal of acute renal allograft rejection by extracorporeal photopheresis: a case presentation and review of the literature. Wolfe JT, et al. **J Clin Apheresis** 1996;11(1):36–41 (26 ref.)

Interferon–gamma deficiency prevents coronary arteriosclerosis but not myocardial rejection in transplanted mouse hearts. Nagano H, et al. **J Clin Invest** 1997 Aug 1;100(3):550–7

Tacrolimus: immunosuppression following liver and kidney transplant. Clark W. **J Clin Pharm Ther** 1996 Jun; 21(3):135–41 (19 ref.)

New immunosuppressive drugs in organ transplantation. Hughes SE, et al. **J Clin Pharmacol** 1996 Dec; 36(12):1081–92 (140 ref.)

The intragraft cytokine mRNA pattern reflects the efficacy of steroid antirejection therapy. Baan CC, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1184–93

Preventing allograft rejection with CTLA4IG: effect of donor–specific transfusion route or timing. Bolling SF, et al. **J Heart Lung Transplant** 1996 Sep;15(9):928–35

Methotrexate can halt the progression of bronchiolitis obliterans syndrome in lung transplant recipients. Dusmet M, et al. **J Heart Lung Transplant** 1996 Sep;15(9):948–54

Effect of single–dose rapamycin–based immunosuppression on the development of cardiac allograft vasculopathy. Goggins WC, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):790–5

Different immune effects on cardiac allografts and xenografts induced by neonatal intrathymic inoculation with allogeneic and xenogeneic antigens. Shen Z, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1034–8

Adult heart transplantation under tacrolimus (FK506) immunosuppression: histopathologic observations and comparison to a cyclosporine–based regimen with lympholytic (ATG) induction. Tsamandas AC, et al. **J Heart Lung Transplant** 1997 Jul;16(7):723–34

Low–dose cyclosporine treatment fails to prevent coronary luminal narrowing after heart transplantation. Vassalli G, et al. **J Heart Lung Transplant** 1996 Jun;15(6):612–9

Preservation injury: mechanisms, prevention and consequences. Jaeschke H. **J Hepatol** 1996 Nov; 25(5):774–80 (78 ref.)

Distinct mechanisms for the induction and maintenance of allograft tolerance with CTLA4–Fc treatment. Tran HM, et al. **J Immunol** 1997 Sep 1;159(5):2232–9

Positive and negative selection of functional mouse CD4 cells by porcine MHC in pig thymus grafts. Zhao Y, et al. **J Immunol** 1997 Sep 1;159(5):2100–7

Preoperative depletion of C3 improves the survival of guinea pig–to–rat cardiac xenograft recipients. Suh CH, et al. **J Invest Surg** 1997 Jan–Apr;10(1–2):37–40

FK–506 delays corneal graft rejection in a model of corneal xenotransplantation. Benelli U, et al. **J Ocul Pharmacol Ther** 1996 Winter;12(4):425–31

Limb allografts in rats treated with anti–ICAM–1 and anti–LFA–1 monoclonal antibodies. Tsuchida Y, et al. **J Reconstr Microsurg** 1997 Feb;13(2):107–10

Immunosuppression in organ transplantation. Oka T, et al. **Jpn J Pharmacol** 1996 Jun;71(2):89–100 (48 ref.)

The effect of immunosuppressive drugs on T cell signalling pathways: non–redundant steps in the T cell response. Halloran PF. **Kidney Blood Press Res** 1996;19(3–4):174–6 (19 ref.)

New approaches for the prevention of early graft rejection. Kahan BD. **Kidney Blood Press Res** 1997;20(3):167–9 (20 ref.)

Immunomodulation in experimental and clinical nephrology using chimeric proteins. Kunzendorf U, et al. **Kidney Blood Press Res** 1996;19(3–4):201–4 (39 ref.)

The side effect profile of sirolimus: a phase I study in quiescent cyclosporine–prednisone–treated renal transplant patients. Murgia MG, et al. **Kidney Int** 1996 Jan; 49(1):209–16

Beyond hyperacute rejection: strategies for development of pig–—>primate xenotransplantation. Hancock WW. **Kidney Int Suppl** 1997 Mar;58:S36–40 (31 ref.)

Outcome of pediatric cadaveric renal transplantation: a 10 year study. Johnson RW, et al. **Kidney Int Suppl** 1996 Jan; 53:S72–6

Heart transplantation in the pediatric population. Miller LW. **Kidney Int Suppl** 1996 Jan;53:S85–7 (26 ref.)

Mechanisms of action of new immunosuppressive drugs. Morris RE. **Kidney Int Suppl** 1996 Jan;53:S26–38 (145 ref.)

New strategy for allotransplantation [editorial] Granstein RD. **Lancet** 1996 Sep 28;348(9031):838–9

Prevention of hyperacute rejection by removal of antibodies to HLA immediately before renal transplantation. Higgins RM, et al. **Lancet** 1996 Nov 2;348(9036):1208–11

Reduced acute rejection after liver transplantation with Neoral–based triple immunosuppression [letter] Mirza DF, et al. **Lancet** 1997 Mar 8;349(9053):701–2

Surgical issues in lung transplantation: options, donor selection, graft preservation, and airway healing. Daly RC, et al. **Mayo Clin Proc** 1997 Jan;72(1):79–84 (24 ref.)

Medical management and complications in the lung transplant recipient. Midthun DE, et al. **Mayo Clin Proc** 1997 Feb;72(2):175–84 (45 ref.)

Cultivating a cure for blindness [news] Hodson S. **Nature** 1997 May 29;387(6632):449

New immunologically non–specific immunosuppressive agents dictate changes in standard protocols for renal transplant management. Helderman JH. **Nephrol Dial Transplant** 1997;12 Suppl 1:51–4 (9 ref.)

Severe thrombocytopenia with OKT3 use for steroid–resistant rejection in a cadaveric renal transplant recipient [letter] Mackie F, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2378

Immunosuppressive protocols for renal transplantation. Ponticelli C, et al. **Nephrol Dial Transplant** 1997;12 Suppl 1:45–50 (59 ref.)

New insights into therapy with monoclonal antibodies in allograft transplantation. Schena FP. **Nephrol Dial Transplant** 1997;12 Suppl 1:55–8 (29 ref.)

Role of preoperative donor–specific transfusion and cyclosporine in haplo–identical living related renal transplant recipients. Sharma RK, et al. **Nephron** 1997; 75(1):20–4

Prevention of high risk corneal graft rejection using cyclosporine A (CsA) incorporated into a collagen matrix. Mahlberg K, et al. **Ocul Immunol Inflamm** 1997 Jun; 5(2):101–10

Comparison of Neoral and Sandimmun cyclosporin A pharmacokinetic profiles in young renal transplant recipients. Kabasakul SC, et al. **Pediatr Nephrol** 1997 Jun; 11(3):318–21

Immunopharmacologic therapy in renal transplantation. Shoker AS. **Pharmacotherapy** 1996 Jul–Aug;16(4):562–75 (151 ref.)

A new immunosuppressant: tacrolimus. James DG. **Postgrad Med J** 1996 Oct;72(852):586 (3 ref.)

Local production of the p40 subunit of interleukin 12 suppresses T-helper 1–mediated immune responses and prevents allogeneic myoblast rejection. Kato K, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9085–9

CTLA4–Ig and anti–CD40 ligand prevent renal allograft rejection in primates. Kirk AD, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8789–94

Production of pigs transgenic for human DAF to overcome complement–mediated hyperacute xenograft rejection in man. White DJ, et al. **Res Immunol** 1996 Feb;147(2):88–94 (28 ref.)

The evolution and future of immunosuppression in renal transplantation. Goral S, et al. **Semin Nephrol** 1997 Jul; 17(4):364–72 (70 ref.)

Pig to monkey bone marrow and kidney xenotransplantation. Sablinski T, et al. **Surgery** 1997 Apr;121(4):381–91

Mycophenolate mofetil—clinical and experimental experience. Pirsch JD, et al. **Ther Drug Monit** 1996 Aug; 18(4):357–61

Unresponsiveness to human leukocytes in immunosuppressed mice by combined donor–derived human transferrin and antigens. Pierpaoli W, et al. **Transpl Immunol** 1996 Dec; 4(4):301–8

Rescue therapy with tacrolimus in simultaneous pancreas/kidney transplantation. Becker G, et al. **Transpl Int** 1997;10(1):51–4

Incidence, risk factors, and outcome of antithymocyte globulin treatment of steroid–resistant rejection after liver transplantation. Bijleveld CG, et al. **Transpl Int** 1996; 9(6):570–5

Reduced dose OKT3 prophylaxis in sensitised kidney recipients. Darby CR, et al. **Transpl Int** 1996;9(6):565–9

Rescue therapy with tacrolimus (FK 506) in renal transplant recipients—a Scandinavian multicenter analysis. Felldin M, et al. **Transpl Int** 1997;10(1):13–8

The beneficial effect of the prostacyclin analogue (OP 2507) on rat liver transplantation subjected to an extended anhepatic phase. Goto S, et al. **Transpl Int** 1996;9(6):607–10

Indications for tacrolimus anti–rejection therapy in liver allograft recipients. Jonas S, et al. **Transpl Int** 1996;9 Suppl 1:S164–70

Long–term cyclosporin A pharmacokinetic profiles in pediatric renal transplant recipients. Kelles A, et al. **Transpl Int** 1996;9(6):546–50

A trial of high–dose ursodeoxycholic acid therapy in a liver transplant recipient [letter] Kita Y, et al. **Transpl Int** 1997; 10(1):78–80

HLA–DR matching reduces rejection rate in heart transplantation. Leivestad T, et al. **Transpl Int** 1996;9 Suppl 1:S230–3

Prevention of graft rejection and graft–versus–host reaction by a novel immunosuppressant, FTY720, in rat small bowel transplantation. Mitsusada M, et al. **Transpl Int** 1997; 10(5):343–9

Anti–integrin (LFA–1, VLA–4, and Mac–1) antibody treatment and acute cardiac graft rejection in the rat. Paul LC, et al. **Transpl Int** 1996;9(4):420–5

Restoration of tolerance to rat hepatic allografts by spleen–derived passenger leukocytes. Shimizu Y, et al. **Transpl Int** 1996;9(6):593–5

Sensitization interval and administration method alter the effect of 15–deoxyspergualin on heart transplantation in sensitized recipient rats. Ueda H, et al. **Transpl Int** 1996; 9(6):551–6

Evidence that cyclosporin A prevents clinical cardiac allograft rejection by blocking both direct and indirect antigen presentation pathways. van Besouw NM, et al. **Transpl Int** 1996;9 Suppl 1:S345–7

Mycophenolate mofetil for the prevention of acute rejection of primary cadaveric kidney transplants: status of the MYC 1866 study at 1 year. The U.S. Mycophenolate Mofetil Study Group. **Transplant Proc** 1997 Feb–Mar;29(1–2):348–9

A single center experience with mycophenolate mofetil in the prevention of renal allograft rejection. Behrend M, et al. **Transplant Proc** 1996 Dec;28(6):3110–1

Prevention of rejection with BTI–322 after renal transplantation (results at 9 months). Besse T, et al. **Transplant Proc** 1997 Aug;29(5):2425–6

T10B9 action: the effect of anti–T–cell antibody mitogenicity and graft rejection on the first dose cytokine response. Brown S, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):315–6

Leflunomide abrogates accelerated heart allograft rejection in presensitized rats. Cheung A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1294–5

Protection afforded by pyruvate during acute rejection of small–bowel allografts is mediated by inhibition of oxygen–free radicals and cytolytic activity (perforin and granzyme–B mRNA expression) in activated leukocytes. Cicalese L, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):704

Acute rejection of small bowel allografts in rats: protection afforded by pyruvate. Cicalese L, et al. **Transplant Proc** 1996 Oct;28(5):2474

Protective effect of pyruvate during acute rejection of intestinal allografts: accompanied by up–regulation of inducible nitric oxide synthase mRNA. Cicalese L, et al. **Transplant Proc** 1997 May;29(3):1813–4

OKT3 prophylaxis in kidney transplant recipients: drug monitoring by flow cytometry. Cinti P, et al. **Transplant Proc** 1996 Dec;28(6):3214–6

Overcoming rejection in pig–to–primate cardiac xenotransplantation. Davis EA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):938–9

French multicenter study of Neoral conversion in heart transplant patients. Dorent R, et al. **Transplant Proc** 1997 Aug;29(5):2326–7

Mycophenolate mofetil as maintenance immunosuppression in pediatric renal transplantation. Ettenger R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):340–1

Reduction in the incidence of early rejection in cadaveric renal allograft recipients treated with ATGAM induction and sequential mycophenolate mofetil. Florence LS, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):313–4

Genetic modification of an islet tumor cell line inhibits its rejection. Georgiou HM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1032–3

Gamma delta TCR+ cells regulate rejection of small intestinal allografts in rats. Gorczynski RM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):863–4

Adenovirus–mediated gene transfer to the xenogeneic liver in liver xenotransplantation: the transduction of complement regulatory factor genes (DAF and HRF20). Hayashi S, et al. **Transplant Proc** 1997 Jun;29(4):2211

Neoral without intravenous cyclosporine in liver transplantation. Hemming AW, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):543

Effect of prostaglandin I2 analogue and thromboxane A2 synthetase inhibitor on chronic rejection in rats. Hirano T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1520

Immunosuppression (Neoral vs Sandimmune) in pediatric kidney transplantation. Holm A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):300–2

An open multicenter trial of conversion from Sandimmun to Neoral in stable kidney–transplant patients. Hourmant M, et al. **Transplant Proc** 1997 Aug;29(5):2313–4

MC1288, a vitamin D analogue, reduces short– and long–term renal allograft rejection in the rat. Kallio E, et al. **Transplant Proc** 1996 Dec;28(6):3113

Analysis of long–term results in kidney transplantation performed using a rejection–free protocol with cyclosporine and thoracic duct drainage. Kinukawa T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):946–7

The effects of CD26/DPP IV–targeted therapy on acute allograft rejection. Korom S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1274–5

Dose adjustment and cost of itraconazole prophylaxis in lung transplant recipients receiving cyclosporine and tacrolimus (FK 506). Kramer MR, et al. **Transplant Proc** 1997 Sep; 29(6):2657–9

Immunomodulation by HLA class I–derived peptides. Krensky AM, et al. **Transplant Proc** 1996 Dec;28(6):3026–8 (14 ref.)

Prevention of reperfusion–induced, free radical–mediated acute endothelial injury by superoxide dismutase as an effective tool to delay/prevent chronic renal allograft failure: a review. Land W, et al. **Transplant Proc** 1997 Sep; 29(6):2567–8 (7 ref.)

Use of cyclosporine pharmacokinetic profiles in an antibody induction protocol reduces early acute rejection rates in recipients of primary cadaveric renal allografts. Lewis R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):294–5

Xanthines: ideal immunosuppressants for combination with cyclosporine? Lin Y, et al. **Transplant Proc** 1996 Dec; 28(6):3102

Progressive change in tolerance mechanisms after withdrawing combination immunosuppression with cyclosporine and rapamycine or leflunomide. Lin Y, et al. **Transplant Proc** 1996 Dec;28(6):3159

Neoral vs Sandimmun: interim results of a randomized trial of efficacy and safety in preventing acute rejection in new renal transplant recipients. The U. K. Neoral Study Group. Lodge JP, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):272–3

Strategies to overcome hyperacute rejection of pig–to–human xenografts. McKenzie IF, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):973–4

Conversion of stable renal allografts from CyA to azathioprine: a 5–year follow–up. McLean A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):285

Human CD46 but not CD59 in transgenic mice protects against hyperacute rejection evoked by ex vivo perfusion with human serum. Marquet RL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):931–2

Effect of cyclosporine A treatment in vitro on pancreatic islet allograft rejection. Mendola J, et al. **Transplant Proc** 1997 Aug;29(5):2494–7

BTI–322 for acute rejection after renal transplantation. Mourad M, et al. **Transplant Proc** 1997 Aug;29(5):2353

Antiproliferative effect of rapamycin on growth factor–stimulated human adult lung fibroblasts in vitro may explain its superior efficacy for prevention and treatment of allograft obliterative airway disease in vivo. Nair RV, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):614–5

A novel series of low molecular weight immunosuppressive agents. Ocain TD, et al. **Transplant Proc** 1996 Dec; 28(6):3032–4

CD4–targeted therapy induces "infectious" tolerance to cardiac allografts in sensitized rat recipients. Onodera K, et al. **Transplant Proc** 1997 May;29(3):1907–8

Kidney transplantation in highly sensitized patients. Ourahma S, et al. **Transplant Proc** 1997 Aug;29(5):2398–9

A prospective study on efficacy and tolerance of antithymocyte globulin Fresenius versus thymoglobuline Merieux after renal transplantation. Ourahma S, et al. **Transplant Proc** 1997 Aug;29(5):2427

Immunoapheresis, an advanced technique for depleting human anti–porcine antibodies, delays hyperacute rejection of xenogeneic perfused pig livers. Pascher A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):962–3

Three–year follow–up of the European Multicenter Tacrolimus (FK506) Liver Study. Pichlmayr R, et al. **Transplant Proc** 1997 Aug;29(5):2499–502

A randomized study comparing cyclosporine alone vs double and triple therapy in renal transplants. The Italian Multicentre Study Group for Renal Transplantation (SIMTRe). Ponticelli C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):290–1

Kidney transplantation: generic HLA DR compatibility reduces acute rejection episodes. Reviron D, et al. **Transplant Proc** 1996 Oct;28(5):2812–3

Improved absorption and bioavailability of cyclosporine A from a microemulsion formulation in lung transplant recipients affected with cystic fibrosis. Reynaud–Gaubert M, et al. **Transplant Proc** 1997 Aug;29(5):2450–3

Cholesterol reduction in cyclosporine–treated renal transplant patients: effect on platelet–derived growth factor levels and platelet activation. Rigatto O, et al. **Transplant Proc** 1997 Sep;29(6):2591–2

Inhibition of chronic rejection after kidney transplantation by anti–CD4 treatment. Risch K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):328–9

Five–year follow–up of early post–renal transplantation cyclosporin withdrawal: do we benefit from a state of tolerance? Saadi MG, et al. **Transplant Proc** 1997 Sep; 29(6):2593–5

Efficacy of a new immunosuppressant, CAM, on small bowel transplantation in rats. Sawada H, et al. **Transplant Proc** 1996 Oct;28(5):2512–3

Control of mouse–to–rat skin xenograft rejection by malononitrilamides. Schorlemmer HU, et al. **Transplant Proc** 1996 Dec;28(6):3037–9

Acute skin graft rejection can be prevented and treated in rat models by malononitrilamides. Schorlemmer HU, et al. **Transplant Proc** 1996 Dec;28(6):3048–50

Reduction of early rejection in adult liver transplantation with ATG induction therapy. Schulak J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):555–6

Therapeutic approach with patient–specific cyclosporine administration protocol in renal transplantation. Sernyak PS, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):296

Mycophenolate mofetil eliminates the rationale for antilymphocyte induction therapy in nonhaploidentical living–donor kidney transplants. Shaffer D, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):342–3

Reversibility of tacrolimus–induced posttransplant diabetes: an illustrative case and review of the literature. Shapiro R, et al. **Transplant Proc** 1997 Sep;29(6):2737–8

Human mouse chimeric CD7 monoclonal antibody (SDZCHH380) for the prophylaxis of kidney transplant rejection: analysis beyond 4 years. Sharma LC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):323–4

BTI–322 for induction therapy after renal transplantation: a randomized study. Squifflet JP, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):317–9

Antisense ICAM–1 oligonucleotides block allograft rejection in rats. Stepkowski SM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1285

Effect of anti CD45 on different immunosuppressive regimes in renal transplantation. Talbot D, et al. **Transplant Proc** 1996 Dec;28(6):3212–3

Clinical significance of T cell monitoring during antithymocyte globulin induction in renal transplantation. Thervet E, et al. **Transplant Proc** 1997 Aug;29(5):2330–1

Rescue therapy with mycophenolate mofetil. Mycophenolate Mofetil Renal Refractory Rejection Study Group. Tomlanovich SJ. **Transplant Proc** 1996 Dec;28(6 Suppl 1):34–6 (33 ref.)

Monoclonal antibodies in organ transplantation. Valdés RH. **Transplant Proc** 1996 Dec;28(6):3293

Long–term follow–up after induction treatment with monoclonal anti–interleukin–2 receptor antibody (BT563) in kidney allograft recipients: a double–blind, placebo–controlled trial. van Gelder T, et al. **Transplant Proc** 1996 Dec;28(6):3221–2

Induction of accommodation prevents hyperacute rejection. Vriens PW, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):597–8

Rapamycin and cyclosporine A treatment: a novel regimen to prevent chronic allograft rejection in sensitized hosts. Wasowska B, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):333

Single center analysis of mycophenolate mofetil and Neoral/prednisone therapy for prophylaxis of rejection in African–American and Caucasian transplant recipients. Weber M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):338–9

Triple drug treatment with cyclosporine, leflunomide and mycophenolate mofetil prevents rejection of pig islets transplanted into rats and primates. Wennberg L, et al. **Transplant Proc** 1997 Aug;29(5):2498

Antirejection strategy in small bowel transplantation. Wood RF. **Transplant Proc** 1996 Oct;28(5):2491–3 (39 ref.)
Bromocriptine as an adjuvant to cyclosporine immunosuppression after renal transplantation. Yongjin J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):297
Prevention of heart allograft and kidney xenograft rejection by monoclonal antibody to CD45RB. Zhang Z, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1253
Murine OKT4A immunosuppression in cadaver donor renal allograft recipients: a cooperative clinical trials in transplantation pilot study. Cooperative Clinical Trials in Transplantation Research Group. **Transplantation** 1997 May 15;63(9):1243–51
Efficacy of rejection prophylaxis with OKT3 [letter; comment] Abramowicz D, et al. **Transplantation** 1996 Sep 15;62(5):700–1. Comment on: Transplantation 1995 Dec 15;60(11):1220–4.
Mycophenolate Mofetil Study [letter; comment] Baltzan M, et al. **Transplantation** 1997 Jan 15;63(1):173–4. Comment on: Transplantation 1996 Apr 15;61(7):1029–37.
Prevention of autoimmune islet allograft destruction by engraftment of donor T cells. Bartlett ST, et al. **Transplantation** 1997 Jan 27;63(2):299–303
RS–61443 prevents microvascular rejection of pancreatic islet xenografts. Beger C, et al. **Transplantation** 1997 Feb 27; 63(4):577–82
The Tricontinental Mycophenolate Mofetil Trial [letter] Browne BJ. **Transplantation** 1996 Dec 15;62(11):1697
Complementary data about the inhibitory effects of intravenous immunoglobulins in vitro and in vivo [letter; comment] Casadei DH, et al. **Transplantation** 1997 Apr 27; 63(8):1191–2. Comment on: Transplantation 1996 Jun 27;61(12):1736–40.
Anti–CD4 MoAb therapy in kidney transplantation—a pilot study in early prophylaxis of rejection. Dantal J, et al. **Transplantation** 1996 Nov 27;62(10):1502–6
Inhibition of complement, evoked antibody, and cellular response prevents rejection of pig–to–primate cardiac xenografts. Davis EA, et al. **Transplantation** 1996 Oct 15; 62(7):1018–23
Transplantation for fulminant hepatic failure: comparing tacrolimus versus cyclosporine for immunosuppression and the outcome in elective transplants. European FK506 Liver Study Group. Devlin J, et al. **Transplantation** 1996 Nov 15;62(9):1251–5
Determinants of chronic renal allograft rejection in cyclosporine–treated recipients. Flechner SM, et al. **Transplantation** 1996 Nov 15;62(9):1235–41
Relationship of FK506 whole blood concentrations and efficacy and toxicity after liver and kidney transplantation. Kershner RP, et al. **Transplantation** 1996 Oct 15;62(7):920–6
Cyclosporine reduces development of obliterative bronchiolitis in a murine heterotopic airway model. King MB, et al. **Transplantation** 1997 Feb 27;63(4):528–32
Role of Fc fragments in inhibition of xenogenic hyperacute rejection by intravenous immunoglobulin. Kojima T, et al. **Transplantation** 1996 Sep 15;62(5):559–62
Evidence for earlier stabilization of cyclosporine pharmacokinetics in de novo renal transplant patients receiving a microemulsion formulation. Kovarik JM, et al. **Transplantation** 1996 Sep 27;62(6):759–63
An open–label, concentration–ranging trial of FK506 in primary kidney transplantation: a report of the United States Multicenter FK506 Kidney Transplant Group. Laskow DA, et al. **Transplantation** 1996 Oct 15;62(7):900–5
Suppression of mouse skin allograft rejection by protein A–Yersiniae V antigen fusion peptide. Motin VL, et al. **Transplantation** 1997 Apr 15;63(7):1040–2
Sequential cytokine expression in renal allografts in rats immunosuppressed with maintenance cyclosporine or mycophenolate mofetil. Nadeau KC, et al. **Transplantation** 1996 Nov 15;62(9):1363–6
Budesonide, a locally acting steroid, prevents graft rejection in a rat model of intestinal transplantation. Ozcay N, et al. **Transplantation** 1997 May 15;63(9):1220–5
Application of immunoapheresis for delaying hyperacute rejection during isolated xenogeneic pig liver perfusion. Pascher A, et al. **Transplantation** 1997 Mar 27;63(6):867–75
A comparison of tacrolimus (FK506) and cyclosporine for immunosuppression after cadaveric renal transplantation. FK506 Kidney Transplant Study Group. Pirsch JD, et al. **Transplantation** 1997 Apr 15;63(7):977–83
Effect of continuous complement inhibition using soluble complement receptor type 1 on survival of pig–to–primate cardiac xenografts. Pruitt SK, et al. **Transplantation** 1997 Mar 27;63(6):900–2
Systemic administration of cellular interleukin–10 can exacerbate cardiac allograft rejection in mice. Qian S, et al. **Transplantation** 1996 Dec 27;62(12):1709–14
A vitamin D analog, MC1288, inhibits adventitial inflammation and suppresses intimal lesions in rat aortic allografts. Räisänen–Sokolowski AK, et al. **Transplantation** 1997 Apr 15;63(7):936–41
Functional and morphological outcome of knee joint transplantation in dogs depends on control of rejection. Rosso R, et al. **Transplantation** 1997 Jun 27;63(12):1723–33
Prevention of hyperacute rejection by human decay accelerating factor in xenogeneic perfused working hearts. Schmoeckel M, et al. **Transplantation** 1996 Sep 27; 62(6):729–34
"Suboptimal" kidney donors: the experience with tacrolimus–based immunosuppression. Shapiro R, et al. **Transplantation** 1996 Nov 15;62(9):1242–6
Abrogation of chronic rejection in a murine model of aortic allotransplantation by prior induction of donor–specific tolerance. Subbotin V, et al. **Transplantation** 1997 Sep 15; 64(5):690–5
Efficacy of immunosuppressive drugs in islet xenotransplantation: leflunomide in combination with cyclosporine and mycophenolate mofetil prevents islet xenograft rejection in the pig–to–rat model. Wennberg L, et al. **Transplantation** 1997 May 15;63(9):1234–42
Effects of leflunomide and cyclosporine on myocutaneous allograft survival in the rat. Yeh LS, et al. **Transplantation** 1996 Sep 27;62(6):861–3
Combination leflunomide and cyclosporine prevents rejection of functional whole limb allografts in the rat. Yeh LS, et al. **Transplantation** 1997 Sep 27;64(6):919–22
[The influence of HX– I on rabbit thyroid allografts] Wang X, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar; 27(1):49–53 (Eng. Abstr.) **(Chi)**
[Attempt at preventing hyperacute xenogenic rejection by isotopic suppression of IgM in the recipient] Pitre J, et al. **Ann Chir** 1996;50(7):524–31 (37 ref.) (Eng. Abstr.) **(Fre)**
[Xenotransplantation in man. 2: Control of rejection and application to xenotransplantation of the swine liver in man] Borie DC, et al. **Gastroenterol Clin Biol** 1996;20(11):982–90 (84 ref.) **(Fre)**
[Which cross–match before organ transplantation in 1997?] Raffoux C, et al. **Presse Med** 1997 May 31;26(18):867–71 (Eng. Abstr.) **(Fre)**
[Amitogenic alginate—the key to first clinical use of the microencapsulation technology] Hasse C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:755–9 (Eng. Abstr.) **(Ger)**
[Preventive systemic cyclosporin A after keratoplasty at increased risk for immune reactions as the only elevated risk factor] Reinhard T, et al. **Ophthalmologe** 1997 Jul; 94(7):496–500 (Eng. Abstr.) **(Ger)**
[Improved organ survival in transplantation of pediatric kidneys by optimizing donor–recipient size relation] Banafsche R, et al. **Urologe A** 1996 Jan;35(1):18–25 (Eng. Abstr.) **(Ger)**
[Immunosuppression and the problems in partial liver transplantation] Kawasaki M, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):683 **(Jpn)**
[Application of complement inactivator gene for control of heterograft rejection] Takeshita K, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):675–8 (8 ref.) **(Jpn)**
[Present status and problems in clinical application of tacrolimus(FK506)] Teraoka S, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):689 (0 ref.) **(Jpn)**

RADIOGRAPHY

High–resolution CT in long–term follow–up after lung transplantation. Ikonen T, et al. **Chest** 1997 Feb; 111(2):370–6
Detection of acute rejection by 133Xe radiospirometry after single lung transplantation in an experimental porcine model. Ikonen T, et al. **Eur Surg Res** 1997;29(1):12–9
Value of high–resolution computed tomography in routine evaluation of lung transplantation recipients during development of bronchiolitis obliterans syndrome. Ikonen T, et al. **J Heart Lung Transplant** 1996 Jun;15(6):587–95
Lung transplantation: indications, donor and recipient selection, and imaging of complications. Garg K, et al. **Radiographics** 1996 Mar;16(2):355–67
Acute rejection diagnosed with computed tomography in a porcine experimental lung transplantation model. Ikonen T, et al. **Scand Cardiovasc J** 1997;31(1):25–32

RADIONUCLIDE IMAGING

Staging of cardiac rejection by simultaneous administration of 123I–antimyosin and 111In–anti MHC class II antibodies. Isobe M, et al. **Acta Cardiol** 1996;51(6):515–20
Thallium–201 scintigraphy in the evaluation of graft dysfunction in lung transplantation. Newark Beth Israel Medical Center Lung Transplant Group. Karetzky MS, et al. **Eur Respir J** 1996 Dec;9(12):2553–9
Uptake of indium–111–anti–intercellular adhesion molecule–1 monoclonal antibody in the allografted rat lung during acute rejection. Amano J, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1027–33
Noninvasive detection of acute heart rejection: the quest for the perfect test [editorial]] Ballester M, et al. **J Nucl Cardiol** 1997 May–Jun;4(3):249–55
MAG3 renogram deconvolution in kidney transplantation: utility of the measurement of initial tracer uptake. Bajén MT, et al. **J Nucl Med** 1997 Aug;38(8):1295–9
99Tcm–MAG3: a sensitive indicator for evaluating perfusion and rejection of renal transplants. Oriuchi N, et al. **Nucl Med Commun** 1997 May;18(5):400–4
Comparison between two strategies for rejection detection after heart transplantation: routine endomyocardial biopsy versus gallium–67 cardiac imaging. Bocchi EA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):586–8

RADIOTHERAPY

Allogeneic bone marrow transplantation with matched unrelated donors for patients with hematologic malignancies using a preparative regimen of high–dose cyclophosphamide and fractionated total body irradiation. Geller RB, et al. **Bone Marrow Transplant** 1997 Aug; 20(3):219–25
Local graft irradiation after failure of modern immunosuppression in acute cellular and vascular graft rejection. Jagetia R, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):907–11
Methotrexate or total lymphoid radiation for treatment of persistent or recurrent allograft cellular rejection: a comparative study. Ross HJ, et al. **J Heart Lung Transplant** 1997 Feb;16(2):179–89

SURGERY

Indication for allograft nephrectomy after irreversible rejection: is there an ideal delay? Noel C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):145–6

THERAPY

Immunoadsorption with protein A in humoral rejection of kidney transplants. Pretagostini R, et al. **ASAIO J** 1996 Sep–Oct;42(5):M645–8
Rejection of the second allogeneic graft in a patient with severe aplastic anemia reversed by antilymphocyte globulin and donor lymphocyte infusions. Ljungman P, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1179–81
OKT3 escalating dose regimens provide effective therapy for renal allograft rejection. Woodle ES, et al. **Clin Transplant** 1996 Aug;10(4):389–95
OKT3 induction therapy: influence of duration on rejections and infections. Zibari GB, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):614–6
New monoclonal antibodies. Costanzo MR. **Curr Opin Cardiol** 1996 Mar;11(2):204–7 (40 ref.)
Treatment of recurrent rejection in heart transplantation: cytolytic therapy or bolus steroids? Hausen B, et al. **Eur J Cardiothorac Surg** 1996;10(10):905–10; discussion 910–1
Extracorporeal membrane oxygenation for early graft dysfunction in lung transplantation: a case report. Ball JW Jr, et al. **J Heart Lung Transplant** 1997 Apr;16(4):468–71
Successful immunomodulation with intravenous gamma globulin and cyclophosphamide in an alloimmunized heart transplant recipient. De Marco T, et al. **J Heart Lung Transplant** 1997 Mar;16(3):360–5
Acute rejection of renal allografts: mechanistic insights and therapeutic options. Suthanthiran M. **Kidney Int** 1997 Apr; 51(4):1289–304 (182 ref.)
Novel immunotherapeutic strategies using MHC derived peptides. Sayegh MH, et al. **Kidney Int Suppl** 1996 Jan; 53:S13–20 (53 ref.)
Adhesion molecules and the mechanisms of kidney rejection [editorial] de Bustillo EM, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):949–52 (34 ref.)
The management of the failed renal allograft [editorial] Vanrenterghem Y, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):955–7 (17 ref.)
Treatment of acute rejection. Thiel G, et al. **Ren Fail** 1996 May;18(3):433–43 (27 ref.)
Treatment with monoclonal antibodies to ICAM–1 and LFA–1 in rat heart allograft rejection. Brandt M, et al. **Transpl Int** 1997;10(2):141–4
Steroid–resistant rejection in kidney–transplanted patients: is ATG treatment for three or ten days preferable? Olausson M, et al. **Transpl Int** 1996;9 Suppl 1:S38–40
Plasmapheresis for the treatment of acute vascular rejection in renal transplantation. Aichberger C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):169–70
Prognostic value of eosinophils for therapeutic response in severe acute hepatic allograft rejection. Ben–Ari Z, et al. **Transplant Proc** 1996 Dec;28(6):3624–8
Rescue therapy with interleukin–2 receptor antibody in high risk kidney transplant patients: a 3–year follow–up study. Carl S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):320–2
Immunoglobulin i.v. high dose (IVIgHD): new therapy as a rescue treatment of grafted kidneys. Casadei D, et al. **Transplant Proc** 1996 Dec;28(6):3290–1
Benefits of photopheresis in the treatment of heart transplant patients with multiple/refractory rejection. Dall'Amico R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):609–11
T–cell interactions with extracellular matrix proteins in allograft rejection: target for immunomodulating therapy. Górski A, et al. **Transplant Proc** 1996 Dec;28(6):3292
Chronic rejection: potential new sites of therapy. Häyry P, et al. **Transplant Proc** 1996 Dec;28(6):3225–6 (19 ref.)
Therapeutic approaches in chronic rejection and cardiac vascularization reinjury. Häyry P. **Transplant Proc** 1996 Dec;28(6):3435–6
Therapy for mouse renal allograft rejection by monoclonal antibody to CD45RB. Lazarovits AI, et al. **Transplant Proc** 1996 Dec;28(6):3208–9
Tacrolimus treatment of steroid–resistant rejection provides economic advantages compared with OKT3 therapy. Millis JM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1549
Influence of the anti–CD25 monoclonal antibody BT563 on clinical and biological rejection after orthotopic liver transplantation. Otto G, et al. **Transplant Proc** 1996 Dec; 28(6):3210–1
BTI–322 for induction therapy after renal transplantation: a randomized study. Squifflet JP, et al. **Transplant Proc**

1997 Feb-Mar;29(1-2):317-9

Increased expression of ICAM-1 and VCAM-1 in the skin after administration of the first dose of OKT3. ten Berge RJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):325-7

Management of acute steroid-resistant rejection after liver transplantation. Platz KP, et al. **World J Surg** 1996 Oct; 20(8):1052-8; discussion 1058-9

ULTRASONOGRAPHY

Correlation of the arterial resistive index in pancreas transplants of patients with transplant rejection. Aideyan OA, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1445-7

Echocardiographic indexes of rejection in pediatric cardiac transplant recipients managed without maintenance steroid immunosuppression. Harada K, et al. **Am J Cardiol** 1997 Mar 1;79(5):693-6

Renal transplant evaluation with power Doppler sonography. Hilborn MD, et al. **Br J Radiol** 1997 Jan;70:39-42

Recognition of acute cardiac allograft rejection from serial integrated backscatter analyses in human orthotopic heart transplant recipients. Comparison with conventional echocardiography. Angermann CE, et al. **Circulation** 1997 Jan 7;95(1):140-50

Doppler spectrum analysis in the differential diagnosis of renal transplant dysfunction. Merkus JW, et al. **Clin Transplant** 1996 Oct;10(5):420-8

Serial echocardiography in transplanted heart: an initial report of five cases. Saxena A, et al. **Indian Heart J** 1997 May-Jun;49(3):279-82

Doppler echocardiography in cardiac transplant patients: allograft rejection and its relationship to diastolic function. Boyd SY, et al. **J Am Soc Echocardiogr** 1997 Jun; 10(5):526-31

The clinical value of blunting of cyclic gray level variation for the detection of acute cardiac rejection: a two-dimensional, Doppler, and videodensitometric ultrasound study. Ciliberto GR, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):306-13

Myocardial acoustics in pediatric allograft rejection. Gotteiner NL, et al. **J Heart Lung Transplant** 1996 Jun; 15(6):596-604

Echocardiographic characteristics of biopsy-proven cellular rejection in infant heart transplant recipients. Santos-Ocampo SD, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):25-34

Unreliability of echocardiographic and Doppler indexes in the diagnosis of heart transplant acute rejection [see comments] Peteiro J, et al. **Rev Port Cardiol** 1996 Jul-Aug; 15(7-8):575-81, 548. Comment in: Rev Port Cardiol 1996 Jul-Aug;15(7-8):583-4.

Diagnosing cardiac rejection by echocardiography [editorial; comment] Pinto FJ. **Rev Port Cardiol** 1996 Jul-Aug; 15(7-8):583-4. Comment on: Rev Port Cardiol 199g Jul-Aug;15(7-8):575-81.

Value of reversed diastolic flow in Doppler sonography of renal transplant. Mazuecos A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):167-8

[Intravascular sonographic findings after orthotopic heart transplantation: comparison with clinical factors] Kerber S, et al. **Herz** 1996 Oct;21(5):320-9 (Eng. Abstr.) **(Ger)**

[Ultrasound diagnosis of the transplanted kidney] Mutze S, et al. **Radiologe** 1996 Jan;36(1):31-7 (49 ref.) (Eng. Abstr.) **(Ger)**

[The importance of the sonographic image in the differential diagnosis of acute rejection in kidney transplantation] Stojković D, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:175-7 (Eng. Abstr.) **(Scc)**

URINE

Urinary excretion of glucosaminoglycans in patients with a renal transplant [letter] Rodríguez-Cuartero A, et al. **Clin Nephrol** 1997 Apr;47(4):274-6

Urinary nitrate excretion is increased in cardiac transplanted patients with acute graft rejection. Mügge A, et al. **Clin Transplant** 1996 Jun;10(3):298-305

Increased urinary excretion of monocyte chemoattractant protein-1 during acute renal allograft rejection. Prodjosudjadi W, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):1096-103

Diurnal urinary excretion of cortisol and aldosterone in kidney graft recipients. Stefanovic V, et al. **Pathol Biol (Paris)** 1995 Nov;43(9):766-71

Urine cytology: an underused method to diagnose acute renal allograft rejection. Corey HE. **Pediatr Nephrol** 1997 Apr; 11(2):226-30 (62 ref.)

Decreased urinary excretion of nitric oxide in acute rejection episodes in pediatric renal allograft recipients. Dedeoglu IO, et al. **Transplantation** 1996 Dec 27;62(12):1936-8

VETERINARY

Comparison of methods to evaluate acute rejection in heterotopic heart transplantation in rats. Koizumi H, et al. **Exp Anim** 1996 Jul;45(3):217-25

Ultrasonographic evaluation of renal size in dogs with acute allograft rejection. Nyland TG, et al. **Vet Radiol Ultrasound** 1997 Jan-Feb;38(1):55-61

VIROLOGY

Herpes simplex virus in primary graft failure. Cockerham GC, et al. **Arch Ophthalmol** 1997 May;115(5):586-9

Epstein-Barr virus associated graft failure following heart/lung transplantation. Egan JJ, et al. **Thorax** 1996 Nov;51(11):1160-2; discussion 1164-5

GRAFT SURVIVAL

The survival identification of pancreatic islets of Langerhans. In vitro and in vivo effects of two dithizone preparations on staining of rat and human islets of Langerhans-preliminary study (Part I). Fiedor P, et al. **Acta Pol Pharm** 1995 Sep-Oct;52(5):431-6

Immune mechanisms of long-term graft acceptance. Hutchinson IV. **Adv Nephrol Necker Hosp** 1996;25:17-38 (38 ref.)

Prolonged islet allograft acceptance in the absence of expression of interleukin-4. Nickerson P, et al. **Adv Nephrol Necker Hosp** 1997;26:171-80

Poorer graft survival in African-American transplant recipients cannot be explained by HLA mismatching. Chertow GM, et al. **Adv Ren Replace Ther** 1997 Jan; 4(1):40-5

Long-term survival of free fat grafts in muscle: an experimental study in rats. Guerrerosantos J, et al. **Aesthetic Plast Surg** 1996 Sep-Oct;20(5):403-8

Salvage of a renal allograft with renal vein occlusion secondary to extrinsic compression. Humar A, et al. **Am J Kidney Dis** 1996 Oct;28(4):622-3

The independent role of cytomegalovirus as a risk factor for invasive fungal disease in orthotopic liver transplant recipients. Boston Center for Liver Transplantation CMVIG-Study Group. Cytogam, MedImmune, Inc. Gaithersburg, Maryland. George MJ, et al. **Am J Med** 1997 Aug;103(2):106-13

Single versus dual venous drainage of the radial forearm free flap. Futran ND, et al. **Am J Otolaryngol** 1996 Mar-Apr; 17(2):112-7

Clinical results and survival of cementless revisions after 49 to 93 months. Savilahti S, et al. **Ann Chir Gynaecol** 1996; 85(4):340-6

Correlation of neutrophil activation and skin flap survival in pharmacologically altered pigs. Kosko JR, et al. **Ann Otol Rhinol Laryngol** 1997 Sep;106(9):790-4

Topical administration of prostaglandin E1 with iontophoresis for skin flap viability. Asai S, et al. **Ann Plast Surg** 1997 May;38(5):514-7

Neutrophil-mediated injury in ischemic skin flaps: amelioration of ischemic injury by cyclosporine in the rat. Cetinkale O, et al. **Ann Plast Surg** 1996 Jul;37(1):66-74

Functional analysis of grafts from living donors. Implications for the treatment of older recipients. Emond JC, et al. **Ann Surg** 1996 Oct;224(4):544-52; discussion 552-4

Paracrine enhancement of porcine to murine islet xenograft survival by simultaneous fetal pancreas and fetal liver isografts. Squiers EC, et al. **Biochem Soc Trans** 1997 May; 25(2):288S

Improved engraftment of human cord blood stem cells in NOD/LtSz-scid/scid mice after irradiation or multiple-day injections into unirradiated recipients. Lowry PA, et al. **Biol Blood Marrow Transplant** 1996 Feb; 2(1):15-23

High levels of engraftment with a single infusion of bone marrow cells into normal unprepared mice [published erratum appears in Biol Blood Marrow Transplant 1996 Feb;2(1):54] Ramshaw HS, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):74-80

Transplantation of purified hematopoietic stem cells: requirements for overcoming the barriers of allogeneic engraftment [published erratum appears in Biol Blood Marrow Transplant 1997 Apr;3(1):50] Shizuru JA, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):3-14

Does the granulocyte-macrophage colony-forming unit content in ex vivo-expanded grafts predict the recovery of the recipient leukocytes? Albella B, et al. **Blood** 1997 Jul 1;90(1):464-70

Factors affecting renal allograft survival in African Americans. Gaston RS. **Blood Purif** 1996;14(4):327-33 (42 ref.)

Plasma levels of granulocyte colony-stimulating factor in patients after allogeneic bone marrow transplantation for chronic myeloid leukemia correlate with engraftment of transplanted marrow. Busch FW, et al. **Bone Marrow Transplant** 1997 Apr;19(7):653-9

Successful engraftment of allogeneic PBSC after conditioning with busulfan alone. Majolino I, et al. **Bone Marrow Transplant** 1997 Mar;19(6):621-3

Allogeneic peripheral blood stem cell transplantation for haematological malignancies--an analysis of kinetics of engraftment and GVHD risk. Miflin G, et al. **Bone Marrow Transplant** 1997 Jan;19(1):9-13

Clinical evidence for an engraftment syndrome associated with early and steep neutrophil recovery after autologous blood stem cell transplantation. Ravoet C, et al. **Bone Marrow Transplant** 1996 Nov;18(5):943-7

Relevance of myeloablative conditioning in the engraftment of limiting numbers of normal and genetically marked lympho-hematopoietic stem cells. Varas F, et al. **Bone Marrow Transplant** 1996 Nov;18(5):981-9

Penetrating keratoplasty in Africa: graft survival and visual outcome. Yorston D, et al. **Br J Ophthalmol** 1996 Oct; 80(10):890-4

Early measurement of interstitial fibrosis predicts long-term renal function and graft survival in renal transplantation. Nicholson ML, et al. **Br J Surg** 1996 Aug;83(8):1082-5

A comparative study of preparation techniques for improving the viability of striatal grafts using vital stains, in vitro cultures, and in vivo grafts. Fricker RA, et al. **Cell Transplant** 1996 Nov-Dec;5(6):599-611

Failure of anterior cruciate ligament reconstruction: the biologic basis. Corsetti JR, et al. **Clin Orthop** 1996 Apr; (325):42-9 (39 ref.)

Blood transfusion and bone allografts. Effect on infection and outcome. Tan MH, et al. **Clin Orthop** 1997 Jul; (340):207-14

World transplant records—1996. Patients who currently have functioning transplants. **Clin Transpl** 1996;:459-517

Pancreas transplantation at the University of Maryland. Bartlett ST, et al. **Clin Transpl** 1996;:271-80

Organ Procurement Organization and transplant center effects on cadaver renal transplant outcomes. Cho YW, et al. **Clin Transpl** 1996;:427-41

Single-center analysis of 468 first cadaveric kidney allografts with a uniform ATG-CsA sequential therapy. Giral M, et al. **Clin Transpl** 1996;:257-64

A multi-factor analysis of kidney graft outcomes at one and five years posttransplantation: 1996 UNOS Update. Gjertson DW. **Clin Transpl** 1996;:343-60

HLA matching. Hata Y, et al. **Clin Transpl** 1996;:381-96

Immunosuppressive regimens and their effects on renal allograft outcome. Katznelson S, et al. **Clin Transpl** 1996; :361-71

Results of renal transplantation five to twenty-six years after surgery, using azathioprine and low-dose prednisolone as sole immunosuppression. McGeown MG, et al. **Clin Transpl** 1996;:265-70

Long-term results of solid organ transplantation. Report from the Eurotransplant International Foundation. Smits JM, et al. **Clin Transpl** 1996;:109-27

Risk rate and long-term kidney transplant survival. Terasaki PI, et al. **Clin Transpl** 1996;:443-58

Is matching for sex and age beneficial to kidney graft survival? Société Française de Transplantation and Association France Transplant. Busson M, et al. **Clin Transplant** 1997 Feb;11(1):15-8

Renal allograft failure after simultaneous pancreas-kidney transplantation: univariate and multivariate analyses of donor and recipient risk factors. Douzdjian V, et al. **Clin Transplant** 1996 Jun;10(3):271-7

Impact of first acute rejection episode and severity of rejection on cadaveric renal allograft survival. Hariharan S, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):538-41

Factors on graft survival of living donor kidney transplantation in a single center. Jin DC, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):471-7

CREG matching for first cadaveric kidney transplants (TNX) performed by SEOPF centers between October 1987 and September 1995. Southeastern Organ Procurement Foundation. Thompson JS, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):586-93

Causes of renal allograft loss in black vs. white transplant recipients in the cyclosporine era. Valente JF, et al. **Clin Transplant** 1997 Jun;11(3):231-6

Primary shunt perfusion detected by colour flow Doppler imaging and its impact on liver allograft survival. Zülke C, et al. **Clin Transplant** 1997 Jun;11(3):163-8

Depletion of donor-derived Langerhans cells promotes corneal allograft survival. He YG, et al. **Cornea** 1996 Jan; 15(1):82-9

Long-term graft survival in patients with flexible open-loop anterior-chamber intraocular lenses. Lois N, et al. **Cornea** 1997 Jul;16(4):387-92

A "crush study" review of micrograft survival. Greco JF, et al. **Dermatol Surg** 1997 Sep;23(9):752-5

Micrograft size and subsequent survival. Seager DJ. **Dermatol Surg** 1997 Sep;23(9):757-61; discussion 762

Improved biocompatibility but limited graft survival after purification of alginate for microencapsulation of pancreatic islets. De Vos P, et al. **Diabetologia** 1997 Mar; 40(3):262-70

Evaluation of survival and maturation of cryopreserved dopaminergic fetal cells transplanted into rat striatum and an analysis of the host brain reaction to graft. Kosno-Kruszewska E, et al. **Folia Neuropathol** 1996; 34(1):1-6

Survival of grafts of genetically modified cardiac myocytes transfected with FITC-labeled oligodeoxynucleotides and the beta-galactosidase gene in the noninfarcted area, but not the myocardial infarcted area. Aoki M, et al. **Gene Ther** 1997 Feb;4(2):120-7

The role of ICAM-1 in the induction of antigen-specific T cell hyporesponsiveness. Chung SW, et al. **Immunol Lett** 1996 May;50(3):155-9

Risk factors and predictive indexes of early graft failure in liver transplantation. Marino IR, et al. **Ital J Gastroenterol** 1996 Apr;28(3):163-8

Dermagraft-TC pivotal efficacy and safety study. Purdue GF. **J Burn Care Rehabil** 1997 Jan-Feb;18(1 Pt 2):S13-4

Lipid disorder and transplant coronary artery disease in long-term survivors of heart transplantation. Park JW, et al. **J Heart Lung Transplant** 1996 Jun;15(6):572-9

Influence of anti-HLA antibodies and positive T-lymphocytotoxic crossmatch on survival and graft rejection in human liver transplantation. Charco R, et al. **J Hepatol** 1996 Apr;24(4):452-9

Enhanced human CD4+ T cell engraftment in

beta2-microglobulin-deficient NOD-scid mice. Christianson SW, et al. **J Immunol** 1997 Apr 15; 158(8):3578-86

Induction of "infectious" tolerance to MHC-incompatible cardiac allografts in CD4 monoclonal antibody-treated sensitized rat recipients. Onodera K, et al. **J Immunol** 1996 Sep 1;157(5):1944-50

Effect of preoperative thoracic duct drainage on canine kidney transplantation. Funakoshi Y, et al. **J Invest Surg** 1996 Sep-Oct;9(5):359-67

Autogenous cancellous bone graft incorporation in a gap defect in the canine femur. Miclau T, et al. **J Orthop Trauma** 1996;10(2):108-13

Pentoxifylline and acetylsalicylic acid in a pig random skin-flap model. Pratt MF, et al. **J Otolaryngol** 1996 Dec; 25(6):393-8

Factors influencing short-term and long-term pediatric renal transplant survival. Schurman SJ, et al. **J Pediatr** 1997 Mar; 130(3):455-62

Split liver transplantation benefits the recipient of the 'leftover liver'. Dunn SP, et al. **J Pediatr Surg** 1997 Feb; 32(2):252-4; discussion 254-5

Energy metabolism and tissue blood flow as parameters for the assessment of graft viability in rat small bowel transplantation. Yamada T, et al. **J Pediatr Surg** 1996 Nov; 31(11):1475-81

Combination therapy for salvaging a failing, experimental skin flap. Shah DK, et al. **J Reconstr Microsurg** 1996 Aug; 12(6):365-9

Graft persistence effectively induces and maintains donor-specific unresponsiveness. Nishinaka H, et al. **J Surg Res** 1997 Mar;68(2):145-52

Neuronal and muscular functions as parameters of graft viability in small bowel transplantation. Taguchi T, et al. **J Surg Res** 1996 Feb 15;61(1):289-92

Prolonged survival of rat hepatic allografts pretreated with a single donor-specific blood transfusion: the distribution of donor cells expressing class I major histocompatibility complex antigens in the recipient. Yamaguchi Y, et al. **J Surg Res** 1996 Feb 15;61(1):23-9

Exogenous surfactant treatment before and after sixteen hours of ischemia in experimental lung transplantation. Hausen B, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1050-8

Mechanisms underlying degeneration of cryopreserved vascular homografts. Neves JP, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1014-21

Use of a porcine dermis template to enhance widely expanded mesh autologous split-thickness skin graft growth: preliminary report. Wang HJ, et al. **J Trauma** 1997 Feb; 42(2):177-82

Antigen-independent determinants of cadaveric kidney transplant failure. Chertow GM, et al. **JAMA** 1996 Dec 4;276(21):1732-6

Early protocol renal allograft biopsies and graft outcome. Serón D, et al. **Kidney Int** 1997 Jan;51(1):310-6

Adenine nucleotide metabolism of canine pancreas graft preserved by the two-layer (euro-collins' solution/perfluorochemical) method after reperfusion. Kim Y, et al. **Kobe J Med Sci** 1996 Feb;42(1):31-41

Hyaluronate levels in donor organ washout effluents: a simple and predictive parameter of graft viability. Rao PN, et al. **Liver** 1996 Feb;16(1):48-54

Rat strain differences in flap tolerance to ischemia. Deune EG, et al. **Microsurgery** 1995;16(11):765-7

Maximizing flap survival in a prefabrication model using exogenous and endogenous bFGF: a new approach. Duffy FJ Jr, et al. **Microsurgery** 1996;17(4):176-9

The transplanted nephronic mass influences renal vascular resistance and blood flow of the kidney graft. Quarto di Palo F, et al. **Nephron** 1997;76(1):43-8

Indefinite survival of neural xenografts induced with anti-CD4 monoclonal antibodies. Wood MJ, et al. **Neuroscience** 1996 Feb;70(3):775-89

Human articular cartilage storage in cell culture medium: guidelines for storage of fresh osteochondral allografts. Sammarco VJ, et al. **Orthopedics** 1997 Jun;20(6):497-500

Survival of normothermic microvascular flaps after prolonged secondary ischemia: effects of hyperbaric oxygen. Stevens DM, et al. **Otolaryngol Head Neck Surg** 1996 Oct;115(4):360-4

Measurements of tissue viability in transplantation. Thorniley MS, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29;352(1354):685-96

Acute ischemic preconditioning of skeletal muscle prior to flap elevation augments muscle-flap survival. Carroll CM, et al. **Plast Reconstr Surg** 1997 Jul;100(1):58-65

The role of the venous system in the abdominal flap of the rat. Miles DA, et al. **Plast Reconstr Surg** 1997 Jun; 99(7):2030-3

Augmentation of random-flap survival by implantation of vascularized fascia allografts and temporary immunosuppression: implications for flap fabrication. Ozcan G, et al. **Plast Reconstr Surg** 1997 May;99(6):1666-74

The influence of arterial inflow and venous outflow on the survival of reversed-flow island flaps: an experimental study. Tanaka Y, et al. **Plast Reconstr Surg** 1997 Jun; 99(7):2021-9

Survival of a microvascular muscle flap despite the late occlusion of the inflow artery in a neuroischaemic diabetic foot. Mätzke S, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Mar; 31(1):71-5

Tolerance to heart and kidney grafts induced by nondepleting anti-CD4 monoclonal antibody (RIB 5/2) versus depleting anti-CD4 monoclonal antibody (OX-38) with donor antigen administration. Motoyama K, et al. **Surgery** 1997 Aug;122(2):213-9; discussion 219-20

Similar treatment success rate after renal transplantation in diabetic and nondiabetic patients due to improved short- and long-term diabetic patient survival. Ekberg H, et al. **Transpl Int** 1996;9(6):557-64

An adverse matching effect for the HLA-B locus in corneal transplantation. Hill JC, et al. **Transpl Int** 1997;10(2):145-9

Prognostic factors of long-term allograft survival in 632 CyA-treated recipients of a primary renal transplant. Montagnino G, et al. **Transpl Int** 1997;10(4):268-75

The relative influence of delayed graft function and acute rejection on renal transplant survival. Nicholson ML, et al. **Transpl Int** 1996;9(4):415-9 (29 ref.)

Prolonged allograft survival by the inhibition of costimulatory CD2 signals but not by modulation of CD48 (CD2 ligand) in the rat. Sido B, et al. **Transpl Int** 1996; 9 Suppl 1:S323-7

Synergistic effect of donor-specific blood transfusion and a short course of deoxyspergualin in rat kidney transplantation. Tanabe K, et al. **Transpl Int** 1996;9(4):353-8

Renal preservation with phosphate buffered sucrose: comparison with hyperosmolar citrate in a prospective trial. Ahmad N, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):355-6

Effect on kidney graft function of donor creatininemia over 200 mumol/L. Alexandre L, et al. **Transplant Proc** 1996 Oct;28(5):2815-6

Living unrelated kidney transplantation: a 12-year single center experience. Alfani D, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):191-4

Kidney transplantation from unrelated donors: ten-year experience. Alfani D, et al. **Transplant Proc** 1996 Dec; 28(6):3455-8

Short- and long-term results with kidneys from non-heart-beating donors. Alonso A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1378-80

Transaminitis and thrombocytopenia following non-heart-beating renal transplantation. Andrews PA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1384-5

An investigation of "tolerance" induction following islet allotransplantation in the mouse. Asakura T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1152

Pregnancy after renal transplantation: impact on graft function. Barrou B, et al. **Transplant Proc** 1996 Oct; 28(5):2835

Pancreas transplantation: analysis of the learning curve. Barrou B, et al. **Transplant Proc** 1996 Oct;28(5):2857-8

Changing donor pattern study of cadaveric kidney donors in the UK and Republic of Ireland, 1985-1994. United Kingdom Transplant Support Service Authority (UK TSSA) Users' Kidney Advisory Group and Audit SubGroup. Belger MA. **Transplant Proc** 1997 Feb-Mar; 29(1-2):106-9

Aging living donor: the best source for kidney transplantation? Berardinelli L, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):195-7

Kidney transplantation from living donors in Italy. Berloco P, et al. **Transplant Proc** 1996 Dec;28(6):3593-6

Fate of kidneys retrieved from the same donor and grafted into different recipients: do donor related factors influence the graft outcome? Bertoni E, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):125-6

Combined monoclonal antibody therapy in experimental small bowel transplantation. Bowles MJ, et al. **Transplant Proc** 1996 Oct;28(5):2510

Impact of marginal quality donors on the outcome of liver transplantation. Briceno J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):477-80

Influence of donor and recipient gender on the outcome of liver transplantation. Brooks BK, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):475-6

Role of donor characteristics on long-term renal allograft survival. Büchler M, et al. **Transplant Proc** 1997 Aug; 29(5):2345

Cytomegalovirus infection in kidney transplantation: prophylaxis and management. Bulinski P, et al. **Transplant Proc** 1996 Dec;28(6):3310-1

In vivo immune response to allogeneic hepatocytes. Bumgardner GL, et al. **Transplant Proc** 1997 Jun; 29(4):2059-60

Intrasplenic hepatocyte transplantation in the pig: new technical aspects. Calise F, et al. **Transplant Proc** 1997 Jun; 29(4):1999-2001

Rescue therapy with interleukin-2 receptor antibody in high risk kidney transplant patients: a 3-year follow-up study. Carl S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):320-2

Transplantation of bovine pancreatic islets into the thymus of nonimmunosuppressed pigs. Carmellini M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):903-4

Living donor kidney transplants: superior success rates despite histoincompatibilities. Cecka JM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):203

Neurological improvement of Wilson's disease after liver transplantation. Chen CL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):497-8

Induction of long-term small bowel graft survival by low-dose immunosuppression in tolerized recipient rats. Chen H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):697-8

Should excessive height and weight differences between the kidney donor and recipient be avoided? Cho YW, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):104-5

Renal transplantation between spouses. Cloix P, et al. **Transplant Proc** 1996 Oct;28(5):2802

Intestinal drainage of the exocrine pancreatic allograft revisited: a better choice? Davidson I, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):639

Adenoviral transfection of canine islet xenografts with immunosuppressive cytokine genes abrogates primary nonfunction and prolongs graft survival. Deng S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):770

Primary nonfunction of islet xenografts in rat recipients results from non-T-cell-mediated immune responses. Deng S, et al. **Transplant Proc** 1997 May;29(3):1726-7

Donor MEGX test fails to predict graft function after orthotopic liver transplant. Dette K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):376-7

Canine segmental liver autotransplantation: an experimental training and research model. Diliz HS, et al. **Transplant Proc** 1996 Dec;28(6):3396-7

Living donor kidney transplantation in predialysis patients: experience of marginal donors in Europe and the United States. Donnelly P, et al. **Transplant Proc** 1996 Dec; 28(6):3566-70

Repeated HLA mismatches in cadaveric renal transplantation: is it safe to transplant? Doxiadis II, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1408-9

Effect of chronic liver disease on clinical outcome in renal allograft recipients. Durlik M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):787-90

Results of kidney transplantation in HBsAG and anti-HCV seropositive renal allograft recipients. Durlik M, et al. **Transplant Proc** 1996 Dec;28(6):3459-60

Living donor renal transplantation: 25 years' experience in Sweden. Ekberg H. **Transplant Proc** 1996 Dec;28(6):3591-2

Impact of RT1.C-encoded MHC antigens on host-versus-graft and graft versus-host reactions in a model of small bowel transplantation in the rat. Fändrich F, et al. **Transplant Proc** 1997 May;29(3):1730-1

Factors contributing to successful renal transplantation in children less than 5 years of age: experience of the last two decades. Fangmann J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):255-6

Long-term function of fetal islet grafting prevents secondary diabetic complications. Farkas G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):743-4

Mechanisms of tolerance induced by an immunotoxin against CD3 epsilon in a rhesus kidney allograft model. Fechner JH Jr, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1158

Prospective randomized study of quadruple versus triple therapy in long-term kidney allografts. Fruchaud G, et al. **Transplant Proc** 1996 Oct;28(5):2819

Change in serum levels of endothelin-1 in porcine liver transplantation and efficacy of ET-1 antagonist to protect damage to liver grafts. Fujioka H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):869-70

Soluble complement receptor type 1 and antithrombin-III combination therapy prolongs xenograft survival: the role of thrombin and prostacyclin in hyperacute rejection. Fujiwara I, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):935-7

Comparative efficacy of prophylactic monoclonal (OKT3) and polyclonal antibodies (ATG) in immunologic high-risk renal transplant recipients. Fukuuchi F, et al. **Transplant Proc** 1996 Oct;28(5):2808-9

Intestinal transplantation in 31 adults. Furukawa H, et al. **Transplant Proc** 1996 Oct;28(5):2753-4

Effect of CMV serology on outcome after clinical intestinal transplantation. Furukawa H, et al. **Transplant Proc** 1996 Oct;28(5):2780-1

Selective immunosuppression induces tolerance after liver transplantation: an immunohistochemical and cytofluorographic analysis of the graft and recipient immune system. Gassel HJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1163

Investigations of the immunoprotective role of the liver after allogeneic orthotopic combined liver-small-bowel transplantation in the rat. Gassel HJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):693-4

Senior citizens pool for aged kidneys. Gjertson DW, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):129

Effect of portal vein injection of allo-MHC-transfected hepatocytes on immunity prior to organ transplantation. Graeb C, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1017-9

Synergism of CTLA4-IG and anti-CD4 monoclonal antibody treatment in a rat kidney transplant model. Graser E, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1307-9

Immunomodulation with intrathymic injection of donor splenocytes followed by CTLA4Ig therapy prolongs small intestinal allograft survival. Greenstein SM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1065-6

Improvement of host-graft adhesion by enzymatic manipulation of the subacute spinal cord contusion area in the rat. Grijalva I, et al. **Transplant Proc** 1996 Dec; 28(6):3340-2

The "injury response": a concept linking nonspecific injury, acute rejection, and long-term transplant outcomes. Halloran PF, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):79-81 (22 ref.)

Impact of different forms of recipient antigen and different

routes of antigen administration in donor pretreatment for preventing graft-versus-host disease in rat small bowel transplantation. He G, et al. **Transplant Proc** 1996 Oct; 28(5):2469

Late graft failure and death in renal transplant recipients: analysis in a single-center population of 1500 patients. Hiesse C, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):240-2

Role of cell surface molecules in tolerance induction after intrathymic injection of donor splenocytes. Hirano T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1072

A unique mechanism of tolerance by perioperative intrathymic injection of bone marrow cells with a short course of ALS and FK506 in the rat cardiac allograft model. Ito A, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1137-8

Bidirectional blockade of CD4 and MHC class II molecules is an effective immunosuppressive treatment. Ito H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1288-9

A new serum protein (KX-5) induced by liver transplantation suppresses heart allograft rejection in nonspecific manner. Kamada N, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1271

Effect of ICAM-1/LFA-1 blockade on pancreatic islet allograft survival, function, and early cytokine production. Katz SM, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):748-9

Improved graft survival in 100 retransplant recipients following AHG-negative crossmatching. Kerman RH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1451-3

Postrenal transplant MLR hypo-responders have fewer rejections and better graft survival than MLR hyper-responders. Kerman RH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1410-1

Is pulmonary tuberculosis a major risk factor on patient and graft survival in kidney transplantation? Kim SI, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):820

Biopsy-proven chronic rejection in living donor kidney transplantation--risk factors and graft survival. Kim SI, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):100

Mixed chimerism and transplantation tolerance induced by a nonlethal preparative regimen in cynomolgus monkeys. Kimikawa M, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1218

Analysis of long-term results in kidney transplantation performed using a rejection-free protocol with cyclosporine and thoracic duct drainage. Kinukawa T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):946-7

Outcome of kidney transplantation in patients with systemic autoimmune diseases. Kliem V, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):957-8

Comparison of graft rejection between vascularized or newborn intestinal transplantation in the rat. Kobayashi E, et al. **Transplant Proc** 1996 Oct;28(5):2485

Influence of graft perfusion pressure on graft viability after small bowel preservation and transplantation. Kobayashi Y, et al. **Transplant Proc** 1996 Oct;28(5):2598-9

Acute rejection episodes predict long-term renal transplantation survival. Kokado Y, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1537-40

Microencapsulation of neonatal porcine islets: long-term reversal of diabetes in nude mice and in vitro protection from human complement mediated cytolysis. Korbutt GS, et al. **Transplant Proc** 1997 Jun;29(4):2128

The effects of CD26/DPP IV-targeted therapy on acute allograft rejection. Korom S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1274-5

Hepatocellular injury during preservation of human livers with UW and HTK solution. Lange R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):400-2

Renal transplantation in Warsaw: a registry report. Lao M, et al. **Transplant Proc** 1996 Dec;28(6):3497-503

Experience in one center of combined kidney and liver transplantation in 22 patients: incidence of graft rejection and long-term graft outcome. Larue JR, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):243-4

Body size mismatch between donor and recipient and the development of chronic rejection in renal transplantation. Lee LS, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):111

Prolongation of porcine islet allograft survival. Liu X, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):768-9

Chimerism, graft-vs-host disease, rejection, and their association with reciprocal donor-host immune reactions after cell, organ, and composite tissue transplantation. Llull R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1203-4

Cadaveric renal transplantation against a positive historic crossmatch under tacrolimus immunosuppression: long-term follow-up. Lyne JC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):312

Long-term follow-up (5 and 10 years) in recipients of HLA identical living related donor kidney grafts receiving continuous cyclosporine compared with azathioprine. MacDonald AS, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):190

Conversion of stable renal allografts from CyA to azathioprine: a 5-year follow-up. McLean A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):285

Transplantation of normal and DAF-transgenic fetal pig pancreas into cynomolgus monkeys. Mandel TE, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2 /01):940

HLA-DR matching defined by DNA typing in heart transplantation. Mascaretti L, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1464-6

Minimally invasive method to measure hepatic protein synthesis rate of the pretransplant graft: a use of 21-G Chiba type II skinny needle. Matsui Y, et al. **Transplant Proc** 1997 Jun;29(4):2294-6

Beneficial effect of induced hypothermia on mortality and graft survival in renal transplant patients with severe respiratory failure. Matsuno N, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):229-30

FK 506 in kidney transplantation: results of the U.S.A. randomized comparative phase III study. The FK 506 Kidney Transplant Study Group. Miller J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):304-5

Impact of a liberalized donor acceptance policy on liver transplantation. Millis JM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):484

Effect of donor splenocyte transfusion with a simultaneous single injection of tacrolimus on lung allografts. Misao T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):612-3

Successful renal transplantation in presensitized recipients with double-filtration plasmapheresis and 15-deoxyspergualin. Miura S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):350-1

Cadaveric kidneys from older donors and their effective use in transplantation: a risk factor for long-term graft survival. Mizutani K, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):113-5

Kidney transplantation from living related donors. Mouquet C, et al. **Transplant Proc** 1996 Oct;28(5):2801

Risk factors in chronic renal allograft rejection: a case-control study at a single center. Mourad G, et al. **Transplant Proc** 1996 Oct;28(5):2822

Culture, expansion, and transplantation of human fetal neural progenitor cells. Moyer MP, et al. **Transplant Proc** 1997 Jun;29(4):2040-1

Goals of small bowel preservation. Mueller AR, et al. **Transplant Proc** 1996 Oct;28(5):2633-5

Kidney transplantation in patients with bladder augmentation: surgical outcome and urodynamic follow-up. Nahas WC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):157-8

Function of hepatic stimulatory substance-induced proliferating hepatocytes in ODS-od/od rats. Nakazawa F, et al. **Transplant Proc** 1997 Jun;29(4):2042-4

Retransplantation for failed hepatic allografts in children. Newell KA, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):442-3

Comparison of the results of renal transplants from conventional and non-heart-beating cadaveric donors. Nicholson ML, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1386-7

Do renal allograft function and histology at 6 months posttransplant predict graft function at 2 years? Nickerson P, et al. **Transplant Proc** 1997 Sep;29(6):2589-90

Kidney transplantation in patients with systemic vasculitis. Nyberg G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):235

Incidence of kidney and pancreas rejection following portal-enteric versus systemic-bladder pancreas-kidney transplantation. Nymann T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):640-1

Improved outcome of patients with portal-enteric pancreas transplantation. Nymann T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):637-8

Cryopreservation of principal islets of teleost fish: the effect on function and islet xenograft survival. O'Hali W, et al. **Transplant Proc** 1997 Jun;29(4):1990-1

Prolongation of hamster-to-rat liver xenograft survival by donor bone marrow augmentation. Ohdan H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):925-7

Role of donor natural killer cells on lethal graft-versus-host disease following small bowel transplantation in the rat. Okamoto M, et al. **Transplant Proc** 1996 Oct;28(5):2467-8

Donor-specific blood transfusion in living-related renal transplantation: fourteen-year experience. Okazaki H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):200-2

Adenovirus-mediated gene transfer of CTLA4Ig to liver allografts results in prolonged survival and local T-cell anergy. Olthoff KM, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1030-1

Clinical implications of DNA typing in organ transplantation. The Collaborative Transplant Study. Opelz G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1524-7

Causes of graft loss following liver transplantation for chronic hepatitis C. O'Reilly PM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):526-8

Clonal deletion is one mechanism responsible for tolerance in mixed hematopoietic chimeras. Orloff SL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1198-200

Proteinuria following renal transplantation: correlation with histopathology and outcome. Peddi VR, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):101-3

Kidney transplantation from living donors in Eurotransplant. Persijn GG, et al. **Transplant Proc** 1996 Dec;28(6):3562-5

Impact of immunosuppression and acute rejection on hepatitis B recurrence. Platz KP, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):509-10

Survival and function of a renal graft from a marginal cadaver donor. Pokorná E, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):118-21

HLA-DRB1 typing does not prolong cold ischemia time and affects outcome in cadaver kidney transplantation. Poli F, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1397-400

Augmentation of chimerism with perioperative donor bone marrow infusion in organ transplant recipients: a 44 month follow-up. Rao AS, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1184-5

Comparison of laparoscopic live donor nephrectomy versus the standard open approach. Ratner LE, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):138-9

Kidney transplantation with living related donors. Recio H, et al. **Transplant Proc** 1996 Dec;28(6):3374

Kidney transplantation in insulin-dependent diabetic patients. Recio H, et al. **Transplant Proc** 1996 Dec;28(6):3375

Intestinal transplantation in children: five-year experience. Reyes J, et al. **Transplant Proc** 1996 Oct;28(5):2755-6

Effect of timing of donor bone marrow infusions on liver allograft survival. Ricordi C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1186

IL-2 and IL-4 double knock-out mice reject islet allografts: a role for novel T-cell growth factors? Roy-Chaudhury P, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1083-4

Low intrapatient variability of blood cyclosporine levels is correlated with excellent graft survival. Savoldi S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):288-9

Intrathymic spleen cell inoculation and ALS fails to induce tolerance to rat pancreas allografts. Schulak JA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1070-1

The role of donor class I major histocompatibility complex peptides in the induction of allograft tolerance. Shirwan H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1134-5

Patient acceptance of cadaveric kidneys from expanded criteria donors. Slakey DP, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):116-7

Allotrap prolongs survival of porcine islet xenografts in diabetic mice. Squiers EC, et al. **Transplant Proc** 1997 Jun; 29(4):2168-9

BTI-322 for induction therapy after renal transplantation: a randomized study. Squifflet JP, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):317-9

Retransplantation in the diabetic with a pancreas allograft after previous kidney or pancreas transplant. Stratta RJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):666

Kidney transplantation from living-related donors. Stryjecka-Rowińska D, et al. **Transplant Proc** 1996 Dec; 28(6):3576-7 (6 ref.)

Pancreas transplantation: four vascular anastomoses. Szmidt J, et al. **Transplant Proc** 1996 Dec;28(6):3511-3

Allograft survival prolongation after microsurgical lymphatic reconstruction in a short-term immunosuppressed rat small bowel transplantation model. Szymula von Richter TP, et al. **Transplant Proc** 1997 May;29(3):1804-6

SEOPF high-grade HLA match algorithm: effective kidney sharing using ROP trays with HLA matching for highly sensitized patients. Tardif GN, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1406-7

Widespread engraftment of neural progenitor and stem-like cells throughout the mouse brain. Taylor RM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):845-7

CREG matching for first kidney transplants performed by SEOPF Centers between October 1987 and September 1995: an analysis of outcome and prospective benefit. Southeastern Procurement Foundation. Thompson J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1435-8

Orthotopic liver transplantation from non-heart-beating donor rats: effect of flushing with cold/warm UW/SLS preservation solutions. Tojimbara T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1371-3

Major impact of engraftment site on early functional outcome of discordant xenoislet grafts from a large animal donor. Troppmann C, et al. **Transplant Proc** 1997 Jun;29(4):2107-8

Vascularized bone marrow allotransplantation in rats prolongs a simultaneous skin allograft. Tsuchida Y, et al. **Transplant Proc** 1997 May;29(3):1732-3

Effects of intrathymic tolerance on mouse heart and skin allograft acceptance. Tu Y, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1063-4

Experience with intestinal transplantation at the University of Miami. Tzakis A, et al. **Transplant Proc** 1996 Oct; 28(5):2748-9

Pancreas transplantation, but not islet transplantation, protects recurrence of IDDM in diabetic BB rats. Uchikoshi F, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):753-5

Experimental tracheal transplantation for possible clinical application. Ueda M, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):871-3

Tolerance for graft-versus-host disease by intrathymic injection of recipient-type splenocytes into donor. Vaidya S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1073-5

Donor-specific transfusion in the nude rat prolongs survival of subsequently transplanted hamster cardiac xenografts. Valdivia LA, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):928-9

Combined orthotopic liver-small bowel transplantation or small bowel transplantation in pigs: relations between survival, rejection, and mucosal morphometry. Velio P, et al. **Transplant Proc** 1997 May;29(3):1840-1

Cadaveric renal transplantation using donors over 60 years old--5 year follow-up. Vivas CA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):112

Induction of accommodation prevents hyperacute rejection. Vriens PW, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):597-8

Induction of donor-specific tolerance by chimeric class I

MHC molecules bearing donor alpha 1 helical amino acids. Wang M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1224–5

Pig–to–primate cardiac xenotransplantation and cyclophosphamide therapy. Waterworth PD, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):899–900

Skin tumours posttransplantation: a retrospective analysis of 28 years' experience at a single centre. Webb MC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):828–30

Considering death with function as a graft loss in kidney transplant recipients. West MS, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):239

Long–term outcome in corneal allotransplantation. The Australian Corneal Graft Registry. Williams KA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):983

Syngeneic bone marrow cells expressing a single donor class I MHC molecule are more effective at inducing tolerance than donor bone marrow cells. Wong W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1131

Assessment of the protective effect of uncoated alginate microspheres. Wu JX, et al. **Transplant Proc** 1997 Jun; 29(4):2146–7

Influence of the thymus on transplantation tolerance in miniature swine. Yamada K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1076

Rejection mechanism and immunosuppression by FK 506 and anti–leukocyte function associated antigen–1 antibody in concordant corneal xenotransplantation. Yamagami S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):943–4

Prolongation of corneal xenograft survival with deoxyspergualin and anti–LFA–1 monoclonal antibody. Yamagami S, et al. **Transplant Proc** 1997 Jun;29(4):2288–9

The shift of Th1/Th2 ratios induced by portal venous administration of UVB–treated donor spleen cells prolonged mouse cardiac allografts. Yu S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1162

Results of renal transplantation at the Gdańsk Center. Zdrojewski Z, et al. **Transplant Proc** 1996 Dec;28(6):3492–3

Prevention of heart allograft and kidney xenograft rejection by monoclonal antibody to CD45RB. Zhang Z, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1253

Long–term prognosis of renal transplantation after preemptive treatment of cytomegalovirus infection. Akposso K, et al. **Transplantation** 1997 Apr 15;63(7):974–6

Long–term follow–up of hepatitis C virus infection among organ transplant recipients: implications for policies on organ procurement. Bouthot BA, et al. **Transplantation** 1997 Mar 27;63(6):849–53

Immunologic and patient selection strategies for successful utilization of less than 15 kg pediatric donor kidneys––long term experiences with 40 transplants. Bretan PN Jr, et al. **Transplantation** 1997 Jan 27;63(2):233–7

Association between capsule diameter, adequacy of encapsulation, and survival of microencapsulated rat islet allografts. De Vos P, et al. **Transplantation** 1996 Oct 15; 62(7):893–9

Evidence for survival and metabolic activity of encapsulated xenogeneic hepatocytes transplanted without immunosuppression in Gunn rats. Gomez N, et al. **Transplantation** 1997 Jun 27;63(12):1718–23

In situ splitting of the cadaveric liver for transplantation. Goss JA, et al. **Transplantation** 1997 Sep 27;64(6):871–7

Prolongation of rat islet allograft survival by the immunosuppressive agent leflunomide. Guo Z, et al. **Transplantation** 1997 Mar 15;63(5):711–6

Simultaneous pancreas/kidney transplantation––a comparison of enteric and bladder drainage of exocrine pancreatic secretions. Kuo PC, et al. **Transplantation** 1997 Jan 27;63(2):238–43

Determination of hepatocellular enzymes in effluent of human liver grafts for preoperative evaluation of transplant quality. Lange R, et al. **Transplantation** 1996 Nov 15; 62(9):1255–9

Long–term renal allograft survival: prognostic implication of the timing of acute rejection episodes. Leggat JE Jr, et al. **Transplantation** 1997 May 15;63(9):1268–72

Use of fatty donor liver is associated with diminished early patient and graft survival. Marsman WA, et al. **Transplantation** 1996 Nov 15;62(9):1246–51

Correlation of clinical outcomes after tacrolimus conversion for resistant kidney rejection or cyclosporine toxicity with pathologic staging by the Banff criteria. Morrissey PE, et al. **Transplantation** 1997 Mar 27;63(6):845–8

Prospective evaluation of pretransplant blood transfusions in cadaver kidney recipients. Opelz G, et al. **Transplantation** 1997 Apr 15;63(7):964–7

High–dose donor bone marrow infusions to enhance allograft survival: the effect of timing. Ricordi C, et al. **Transplantation** 1997 Jan 15;63(1):7–11

"Suboptimal" kidney donors: the experience with tacrolimus–based immunosuppression. Shapiro R, et al. **Transplantation** 1996 Nov 15;62(9):1242–6

Survival of rabbit limbal stem cell allografts. Swift GJ, et al. **Transplantation** 1996 Sep 15;62(5):568–74

Factors that impact on the outcome of second renal transplants in children. Tejani A, et al. **Transplantation** 1996 Sep 15;62(5):606–11

Absence of deleterious effect on long–term kidney graft survival of rejection episodes with complete functional recovery. Vereerstraeten P, et al. **Transplantation** 1997 Jun 27;63(12):1739–43

Clinical characteristics affecting the outcome of liver retransplantation. Wong T, et al. **Transplantation** 1997 Sep 27;64(6):878–82

[Tonometric monitoring of the viability of free transplants of the jejunum and the stomach after total circulary pharyngolaryngectomy] Rohr S, et al. **J Chir (Paris)** 1996; 133(8):389–91 (Eng. Abstr.) **(Fre)**

[The significance of risk–adapted antiviral prophylaxis and modern virus diagnosis for organ survival after kidney transplantation] Fricke L, et al. **Dtsch Med Wochenschr** 1997 May 2;122(18):565–71 (Eng. Abstr.) **(Ger)**

[Porcine liver transplantation using warm ischemic grafts] Kimura J. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):475–87 (Eng. Abstr.) **(Jpn)**

[The effect of donor age on corneal graft survival] Kordić R. **Lijec Vjesn** 1997 Feb;119(2):64–7 (Eng. Abstr.) **(Scr)**

DRUG EFFECTS

Preservative effects of trehalose on rat muscle flaps. Zhan CW, et al. **Ann Plast Surg** 1996 Nov;37(5):538–44

Improved outcome of surgical flaps treated with topical dimethylsulfoxide. Rand–Luby L, et al. **Ann Surg** 1996 Oct; 224(4):583–9; discussion 589–90

The role of immunosuppression in the long–term survival of tracheal allografts. Delaere PR, et al. **Arch Otolaryngol Head Neck Surg** 1996 Nov; 122(11):1201–8

Terazosin blockade of nicotine–induced skin flap necrosis in the rat. Karien RG, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):837–40

Prolongation of rat liver graft survival by splenectomy combined with low dose FK506 therapy. Kashu Y, et al. **Artif Organs** 1996 Oct;20(10):1116–9

Immunosuppressive treatment of primary cadaveric renal transplant patients receiving kidneys from non–heart beating donors. Ohshima S, et al. **Artif Organs** 1996 Oct; 20(10):1130–6

Phase II study of recombinant human granulocyte colony–stimulating factor in children undergoing bone marrow transplantation. Dini G, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:121–8

Beraprost sodium: a stable prostaglandin I2 analogue [letter; comment] Battal MN, et al. **Br J Plast Surg** 1997 Jan; 50(1):69–70. Comment on: Br J Plast Surg 1996 Jun;49(4):245–8. Comment on: Br J Plast Surg 1996 Jun;49(4):249–50.

Cool perfusion solutions for skin flaps [letter; comment] [see comments] Grishin IG, et al. **Br J Plast Surg** 1996 Sep; 49(6):424. Comment on: Br J Plast Surg 1995 Apr;48(3):132–44. Comment in: Br J Plast Surg 1996 Sep;49(6):424–5.

A perfusion solution containing an antithrobotic agent and an oxygen free radical scavenger has a beneficial effect on postischaemic oedema and skin flap survival [letter; comment] Knight KR, et al. **Br J Plast Surg** 1996 Sep; 49(6):424–5. Comment on: Br J Plast Surg 1996 Sep;49(6):424.

Conversion to microemulsion cyclosporine in stable renal transplant patients: results after one year. Neumayer HH, et al. **Clin Nephrol** 1996 May;45(5):326–31

A single–center multiple regression analysis of covariates associated with long–term cadaveric renal allograft survival: further improvement of long–term results with CsA. Peeters J, et al. **Clin Transpl** 1995;:255–60

The effect of HMG–CoA reductase inhibitors on chronic allograft rejection. Katznelson S. **Contrib Nephrol** 1997; 120:97–104 (50 ref.)

Misoprostol with cyclosporin A prolongs corneal allograft survival in an animal model. Olsen TW, et al. **Cornea** 1996 Jan;15(1):76–81

Glial cell line–derived neurotrophic factor improves survival of ventral mesencephalic grafts to the 6–hydroxydopamine lesioned striatum. Granholm AC, et al. **Exp Brain Res** 1997 Aug;116(1):29–38

The AMOG/beta 2 subunit of Na,K–ATPase is not necessary for long–term survival of telencephalic grafts. Isenmann S, et al. **Glia** 1995 Dec;15(4):377–88

Regulation of fetal allograft survival by a hormone–controlled Th1– and Th2–type cytokines. Piccinni MP, et al. **Immunol Res** 1996;15(2):141–50 (54 ref.)

Immunosuppression in renal transplantation. Bonomini V, et al. **Int J Artif Organs** 1997 Feb;20(2):73–5 (15 ref.)

Hamster cardiac xenograft in rat ear: effect of cyclosporine A and leflunomide on survival. Ikeda K, et al. **Int J Immunopharmacol** 1996 Jun–Jul;18(6–7):409–14

Prolongation of murine cardiac allograft survival by microspheres containing TNF alpha and IL1–beta neutralizing antibodies. Gerber DA, et al. **J Drug Target** 1995;3(4):311–5

Preventing allograft rejection with CTLA4IG: effect of donor–specific transfusion route or timing. Bolling SF, et al. **J Heart Lung Transplant** 1996 Sep;15(9):928–35

Both L– and D–isomers of allotrap 2702 prolong cardiac allograft survival in mice. Gao L, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):78–87

Effect of single–dose rapamycin–based immunosuppression on the development of cardiac allograft vasculopathy. Goggins WC, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):790–5

Prolonged survival of hamster–to–rat pulmonary xenografts by tacrolimus (FK506) and cyclophosphamide. Komatsu K, et al. **J Heart Lung Transplant** 1996 Jul;15(7):722–7

Steroid pretreatment improves graft recovery in a sheep orthotopic heart transplantation model. Segel LD, et al. **J Heart Lung Transplant** 1997 Apr;16(4):371–80

Prolongation of murine cardiac allograft survival with vesnarinone. Hirozane T, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):67–76

Treatment with an HLA–peptide and cyclosporine A prolongs rat small bowel allograft survival. Willetts IE, et al. **J Pediatr Surg** 1997 Mar;32(3):469–72

Regimens of IGF–I treatment in fetal pancreas transplantation. Adams GA, et al. **J Surg Res** 1997 Feb 15;68(1):73–8

Long–term acceptance of major histocompatibility complex–mismatched cardiac allograft induced by a low dose of CTLA4IgM plus FK506. Yamada A, et al. **Microbiol Immunol** 1996;40(7):513–8

Modulating autoimmune responses to GAD inhibits disease progression and prolongs islet graft survival in diabetes–prone mice [see comments] Tian J, et al. **Nat Med** 1996 Dec;2(12):1348–53. Comment in: Nat Med 1996 Dec;2(12):1311–2.

Glial cell line–derived neurotrophic factor increases survival, growth and function of intrastriatal fetal nigral dopaminergic grafts. Rosenblad C, et al. **Neuroscience** 1996 Dec;75(4):979–85

Glial cell line–derived neurotrophic factor enhances survival and growth of prenatal and postnatal spinal cord transplants. Trok K, et al. **Neuroscience** 1996 Mar; 71(1):231–41

Prevention of high risk corneal graft rejection using cyclosporine A (CsA) incorporated into a collagen matrix. Mahlberg K, et al. **Ocul Immunol Inflamm** 1997 Jun; 5(2):101–10

Improved renal allograft survival in children treated with FK 506 (tacrolimus) rescue therapy. Corey HE, et al. **Pediatr Nephrol** 1996 Dec;10(6):720–2

Impact of improving immunosuppressive treatment on outcome in cadaveric kidney transplantation. Knechtle SJ, et al. **Surgery** 1996 Oct;120(4):719–24

Adverse effect of donor vasopressor support on immediate and one–year kidney allograft function. Marshall R, et al. **Surgery** 1996 Oct;120(4):663–5; discussion 666

Inhibition of inducible nitric oxide synthase prolongs rat lung allograft survival. Shiraishi T, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):78–82

Facilitation of DLA–incompatible marrow grafts by donor–specific serum transferrin? Deeg HJ, et al. **Transpl Immunol** 1996 Jun;4(2):113–6

Allograft acceptance and rejection, mediated by a liver suppressor factor, LSF–1, purified from serum of liver transplanted rats. Edwards–Smith C, et al. **Transpl Immunol** 1996 Dec;4(4):287–92

Castanospermine, an oligosaccharide processing inhibitor, reduces membrane expression of adhesion molecules and prolongs heart allograft survival in rats. Grochowicz PM, et al. **Transpl Immunol** 1996 Dec;4(4):275–85

The effect of MX–1 on survival of discordant cardiac xenografts from guinea pig to rat. Kaji H, et al. **Transpl Immunol** 1997 Mar;5(1):70–2

Thalidomide prolonged graft survival in a rat cardiac transplant model but had no inhibitory effect on lymphocyte function in vitro. Ostraat O, et al. **Transpl Immunol** 1996 Jun;4(2):117–25

Effect of RS61443 in combination with leflunomide or FK506 on rat heart allograft survival. Antoniou E, et al. **Transpl Int** 1996;9 Suppl 1:S331–3

A short–term combination therapy with cyclosporine and rapamycin or leflunomide induces long–term heart allograft survival in a strongly immunogenic strain combination in rats. Lin Y, et al. **Transpl Int** 1996;9 Suppl 1:S328–30

Both CD45RC+ and negative CD4+ suppressor cells are present in the rat cardiac allograft LF 08–0299–induced tolerance model. Andoins C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1282–4

Aminoguanidine inhibits the generation of nitric oxide in vitro and prolongs islet xenograft survival in rats. Behboo R, et al. **Transplant Proc** 1997 Jun;29(4):2152–3

Iothalamate and ioversol radiocontrasts do not affect islet survival and production of nitric oxide after intrahepatic transplant in rodents. Bottino R, et al. **Transplant Proc** 1997 Jun;29(4):2079

Tacrolimus (FK506) is superior to cyclosporine in liver transplantation. Busuttil RW, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):534–8 (12 ref.)

Induction of transplant tolerance by intrathymic inoculation of synthetic MHC class I allopeptides. Chowdhury NC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1136

Leflunomide and cyclosporine immunomodulation in intestinal xenotransplantation. Foster PF, et al. **Transplant Proc** 1996 Oct;28(5):2527–8

Synergistic interaction between castanospermine and tacrolimus in a rat heart allograft model. Grochowicz PM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1259–60

Effect of leflunomide and cyclosporine on concordant xenogeneic islet transplantation in streptozotocin–induced and autoimmune diabetic mice. Guo Z, et al. **Transplant Proc** 1997 Jun;29(4):2155

Castanospermine, an oligosaccharide–processing inhibitor, reduces membrane expression of adhesion molecules and prolongs heart allograft survival in rats. Hibberd AD, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1257–8

15–Deoxyspergualin attenuates pericapsular cellular infiltration and prolongs survival of

alginate-poly-L-lysine-alginate microencapsulated islets. Hsu BR, et al. **Transplant Proc** 1997 Jun;29(4):2158-60

Xanthines: ideal immunosuppressants for combination with cyclosporine? Lin Y, et al. **Transplant Proc** 1996 Dec; 28(6):3102

Reversal of experimental small bowel transplantation rejection with cyclosporine A. Liu Q, et al. **Transplant Proc** 1996 Oct;28(5):2508-9

Thromboxane A2 synthesis inhibitor OKY046 ameliorates vascular endothelial injury of pancreas graft during preservation by the two-layer UW solution/perfluorochemical method at 20 degrees C. Matsumoto S, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1359-62

Prolongation of cardiac allograft survival in rats following combination treatment with 2-chloro-2'-deoxyadenosine and cyclosporine: a novel immunosuppressive strategy. Nawrocki G, et al. **Transplant Proc** 1996 Dec;28(6):3538-9

Lipid absorption of the allointestinal grafts under a short course of methyldeoxyspergualin. Saito T, et al. **Transplant Proc** 1996 Oct;28(5):2570

Efficacy of a new immunosuppressant, CAM, on small bowel transplantation in rats. Sawada H, et al. **Transplant Proc** 1996 Oct;28(5):2512-3

Acute skin graft rejection can be prevented and treated in rat models by malononitrilamides. Schorlemmer HU, et al. **Transplant Proc** 1996 Dec;28(6):3048-50

Effectiveness of bactobolamine as a new immunosuppressive agent. Tomikawa S, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1276-8

Prolonged small bowel graft survival using photochemotherapy and low-dose FK 506. Toyama Y, et al. **Transplant Proc** 1996 Oct;28(5):2506-7

FK 506 versus cyclosporine A for steroid-free synergistic combination therapy with rapamycin in a discordant large animal donor xenoislet transplant model. Troppmann C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):914-5

Rejection and survival after total orthotopic liver-small bowel allotransplantation in pigs immunosuppressed with FK 506. Velio P, et al. **Transplant Proc** 1996 Oct; 28(5):2529-30

Prolongation of canine renal allograft survival by combining tacrolimus with antimetabolic agents. Zhu Y, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):308-9

Indefinite islet allograft survival in mice after a short course of treatment with anti-CD45 monoclonal antibodies. Auersvald LA, et al. **Transplantation** 1997 May 15; 63(9):1355-8

Effect of repetitive high-dose treatment with soluble complement receptor type 1 and cobra venom factor on discordant xenograft survival. Candinas D, et al. **Transplantation** 1996 Aug 15;62(3):336-42

Prolonged survival of rat skin allograft by treatment with FK506 ointment. Fujita T, et al. **Transplantation** 1997 Sep 27;64(6):922-5

Interleukin-13, in combination with anti-interleukin-12, increases graft prolongation after portal venous immunization with cultured allogeneic bone marrow-derived dendritic cells. Gorczynski RM, et al. **Transplantation** 1996 Dec 15;62(11):1592-600

Superiority of sirolimus (rapamycin) over cyclosporine in augmenting allograft and xenograft survival in mice treated with antilymphocyte serum and donor-specific bone marrow. Hale DA, et al. **Transplantation** 1997 Feb 15; 63(3):359-64

Reduction of proteolysis by venous-systemic oxygen persufflation during rat liver preservation and improved functional outcome after transplantation. Minor T, et al. **Transplantation** 1997 Feb 15;63(3):365-8

Long-term survival of solid organ allografts by brief anti-lymphocyte function-associated antigen-1 monoclonal antibody monotherapy. Nakakura EK, et al. **Transplantation** 1996 Sep 15;62(5):547-52

Prolonged skin allograft survival after photodynamic therapy associated with modification of donor skin antigenicity. Obochi MO, et al. **Transplantation** 1997 Mar 27;63(6):810-7

Comparison of FK506 and cyclosporine [letter; comment] Opelz G. **Transplantation** 1996 Sep 15;62(5):702. Comment on: Transplantation 1995 Dec 27;60(12):1384-8.

Effects of the pharmacokinetic interaction between orally administered sirolimus and cyclosporine on the synergistic prolongation of heart allograft survival in rats. Stepkowski SM, et al. **Transplantation** 1996 Oct 15;62(7):986-94

Effect of pretransplant erythropoietin therapy on renal allograft outcome. Vasquez EM, et al. **Transplantation** 1996 Oct 15;62(7):1026-8

Assessment of damage and recovery of sinusoidal endothelial cell function by in vivo hyaluronic acid uptake in cold-preserved and transplanted rat livers. Wang L, et al. **Transplantation** 1996 Nov 15;62(9):1217-21

Effects of leflunomide and cyclosporine on myocutaneous allograft survival in the rat. Yeh LS, et al. **Transplantation** 1996 Sep 27;62(6):861-3

[Effect of Tripterygium wolfordii on inhibition of rejection reaction of allogeneic skin graft in mice] Lei W, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1995 Jul;11(4):294-5 **(Chi)**

GENETICS

Effect of race on outcome after kidney and kidney-pancreas transplantation in type 1 diabetic patients. Douzdjian V, et al. **Diabetes Care** 1997 Aug;20(8):1310-4

Restriction endonuclease in situ digestion (REISD): a novel quantitative sex-independent method to analyze chimerism after bone marrow transplantation. Díez-Martín JL, et al. **Exp Hematol** 1996 Sep;24(11):1333-9

Early detection of bone marrow engraftment by amplification of hypervariable DNA regions. Martinelli G, et al. **Haematologica** 1997 Mar-Apr;82(2):156-60

Angiotensin-converting enzyme genotype and renal allograft survival. Beige J, et al. **J Am Soc Nephrol** 1997 Aug; 8(8):1319-23

Highly sensitive and specific polymerase chain reaction assays for detection of baboon and pig cells following xenotransplantation in humans. Heneine W, et al. **Transplantation** 1996 Nov 15;62(9):1360-2

Angora mouse mutation: altered hair cycle, follicular dystrophy, phenotypic maintenance of skin grafts, and changes in keratin expression. Sundberg JP, et al. **Vet Pathol** 1997 May;34(3):171-9

IMMUNOLOGY

The effects of cytomegalovirus serology on graft and recipient survival in cadaveric renal transplantation: implications for organ allocation. Schnitzler MA, et al. **Am J Kidney Dis** 1997 Mar;29(3):428-34

Immunological transformations in the recipient of grafted allogeneic human bone. Hofmann GO, et al. **Arch Orthop Trauma Surg** 1997;116(3):143-50

Recovery of adenosine triphosphate tissue levels of grafts preserved by the two-layer method after reperfusion. Kim Y, et al. **Artif Organs** 1996 Oct;20(10):1120-4

ABO incompatible renal transplantation: a chance to re-examine? Mackie FE, et al. **Aust N Z J Med** 1996 Dec; 26(6):824-6

Prolongation of cardiac allograft survival by intraportal injection of donor antigens--differential mechanisms according to the timing of injection. Tanigawa T, et al. **Cell Transplant** 1996 Sep-Oct;5(5 Suppl 1):S79-80

HLA amino acid residue matching. Takemoto SK. **Clin Transpl** 1996;:397-425

Interaction between panel reactive antibodies, auto- and cold reactive antibodies, and a positive B cell cross-match in renal and cardiac allograft survival. Creemers P, et al. **Clin Transplant** 1997 Apr;11(2):134-8

Repeated HLA mismatches and second renal graft survival in centers of the South-Eastern Organ Procurement Foundation. Heise ER, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):579-85

Flow cytometry crossmatching and primary cadaver kidney graft outcome: relevance of T and B cell targets, historic sera and autologous controls. LeFor WM, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):601-6

Association between long-term kidney graft survival and the presence of pre-transplant cytotoxic anti-HLA and/or non-MHC Fc gamma RII blocking' (anti-TLX) alloantibody. Padányi A, et al. **Clin Transplant** 1996 Oct; 10(5):455-60

Immunogenetic analysis of successful and rejected bone marrow grafts within one family. Martinez OP, et al. **Eur J Immunogenet** 1994 Oct;21(5):365-72

The mechanism of specific prolongation of class I-mismatched skin grafts induced by retroviral gene therapy. Mayfield RS, et al. **Eur J Immunol** 1997 May; 27(5):1177-81

Persistent infiltration of CD45RC- CD4+ T cells, Th2-like effector cells, in prolonging hepatic allografts in rats pretreated with a donor-specific blood transfusion. Miyanari N, et al. **Hepatology** 1997 Apr;25(4):1008-13

Quantitative evaluation of histological features in "time-zero" liver allograft biopsies as predictors of rejection or graft failure: receiver-operating characteristic analysis application. Abraham S, et al. **Hum Pathol** 1996 Oct; 27(10):1077-84

A potential mechanism of action of an antibody (HIS45) which has been shown to induce prolonged graft survival. Aspinall R. **Immunobiology** 1996;196(4):425-36

The lost chord: microchimerism and allograft survival. Starzl TE, et al. **Immunol Today** 1996 Dec;17(12):577-84; discussion 588 (78 ref.)

Chimerism and transplantation tolerance: cause and effect. Wood K, et al. **Immunol Today** 1996 Dec;17(12):584-7; discussion 588 (35 ref.)

Effect of cyclosporine on anterior chamber-associated immune deviation with retinal transplantation. Ishioka M, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):2152-60

Anterior chamber-associated immune deviation promotes corneal allograft survival. Niederkorn JY, et al. **Invest Ophthalmol Vis Sci** 1996 Dec;37(13):2700-7

Rat pancreatic islet and skin xenograft survival in CD4 and CD8 knockout mice. Krieger NR, et al. **J Autoimmun** 1997 Jun;10(3):309-15

CD95 ligand (FasL)-induced apoptosis is necessary for corneal allograft survival. Stuart PM, et al. **J Clin Invest** 1997 Feb 1;99(3):396-402

Increased frequency of TCR gamma delta + T cells in disease-free survivors following T cell-depleted, partially mismatched, related donor bone marrow transplantation for leukemia. Lamb LS Jr, et al. **J Hematother** 1996 Oct; 5(5):503-9

Gamma delta TCR+ hybridomas derived from mice preimmunized via the portal vein adoptively transfer increased skin allograft survival in vivo. Gorczynski RM, et al. **J Immunol** 1996 Jul 15;157(2):574-81

Blocking the CD28-B7 T cell costimulation pathway induces long term cardiac allograft acceptance in the absence of IL-4. Lakkis FG, et al. **J Immunol** 1997 Mar 1; 158(5):2443-8

Successful formation of a chimeric human thymus allograft following transplantation of cultured postnatal human thymus. Markert ML, et al. **J Immunol** 1997 Jan 15; 158(2):998-1005

Induction of tolerance to an experimental cardiac allograft through intrathymic inoculation of class II major histocompatibility complex disparate antigens. Shen Z, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1315-8

Microchimerism and graft tolerance: cause or effect? [comment] Adams DH, et al. **Lancet** 1997 May 10; 349(9062):1336-7 (10 ref.). Comment on: Lancet 1997 May 10;349(9062):1358-60.

Microchimerism and rejection in clinical transplantation [see comments] Elwood ET, et al. **Lancet** 1997 May 10; 349(9062):1358-60. Comment in: Lancet 1997 May 10;349(9062):1336-7.

Hepatitis C infection in renal transplant patients: new insights and unanswered questions. Pirson Y, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:42-5 (23 ref.)

Transgenic expression of CD95 ligand on islet beta cells induces a granulocytic infiltration but does not confer immune privilege upon islet allografts [see comments] Allison J, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):3943-7. Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(12):5986-90.

Costimulatory function and expression of CD40 ligand, CD80, and CD86 in vascularized murine cardiac allograft rejection. Hancock WW, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13967-72

CD28 blockade alters cytokine mRNA profiles in cardiac transplantation. Lin H, et al. **Surgery** 1997 Aug; 122(2):129-37

Inhibition of inducible nitric oxide synthase prolongs rat lung allograft survival. Shiraishi T, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):78-82

Facilitation of DLA-incompatible marrow grafts by donor-specific serum transferrin? Deeg HJ, et al. **Transpl Immunol** 1996 Jun;4(2):113-6

The effect of MX-1 on survival of discordant cardiac xenografts from guinea pig to rat. Kaji H, et al. **Transpl Immunol** 1997 Mar;5(1):70-2

Strain-dependent differences in prolongation of rat cardiac allograft survival after intrathymic injection of donor bone marrow and ALS treatment. Walker KG, et al. **Transpl Immunol** 1996 Jun;4(2):177-9

Treatment with monoclonal antibodies to ICAM-1 and LFA-1 in rat heart allograft rejection. Brandt M, et al. **Transpl Int** 1997;10(2):141-4

Combined FK 506 and mycophenolate mofetil immunosuppression prolongs survival after small bowel transplantation in pigs. Alessiani M, et al. **Transplant Proc** 1996 Oct;28(5):2499-500

Reversal of CTLA4Ig-mediated tolerance to cardiac allografts by exogenous interleukin-2. Arima T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1305-6

Anti-CD45RB treatment prolongs islet allograft survival in mice. Auersvald LA, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):771

LF 08-0299 protects murine recipients of minor antigen disparate donor bone marrow from lethal graft-versus-host disease. Bruley-Rosset M, et al. **Transplant Proc** 1996 Dec; 28(6):3114-6

Molecular level HLA mismatches in UNOS "zero-mismatched" kidney transplants. Cook DJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1401-2

Accelerated rejection of a skin graft after liver transplantation from a sensitized donor: functional aspects of microchimerism. Dahmen U, et al. **Transplant Proc** 1996 Dec;28(6):3243-5

Molecular biology of the allograft response. Dallman MJ. **Transplant Proc** 1996 Dec;28(6 Suppl 1):2-6 (25 ref.)

B-cell flow-cytometry crossmatch: influence in renal transplantation. De Carvalho Bittencourt M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1456-7

IL-10 and TGF-beta gene transfer to rodent islets: effect on xenogeneic islet graft survival in naive and B-cell-deficient mice. Deng S, et al. **Transplant Proc** 1997 Jun;29(4):2207-8

Long-term survival of limb allografts after weaning of cyclosporine: possible role of microchimerism. Durlik M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1226-7

Impact of natural killer cells in mediating graft-versus-host disease following small bowel transplantation in a rat model. Fändrich F, et al. **Transplant Proc** 1996 Oct; 28(5):2465-6

Modulation of graft-vs-host-related disease by host-specific natural killer cell activity following semiallogeneic small bowel transplantation in the rat. Fändrich F, et al. **Transplant Proc** 1996 Dec;28(6):3267-8

Costimulatory molecule-deficient dendritic cell progenitors induce T cell hyporesponsiveness in vitro and prolong the survival of vascularized cardiac allografts. Fu F, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1310

Gamma delta TCR+, type-2 cytokine produced by hybridoma cells produced in mice given portal vein pretransplant immunization and allogeneic grafts can increase graft survival on adoptive transfer. Gorczynski R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):865-6

Histocompatibility complex subloci differences in small bowel transplantation: their influence on graft rejection. Gundlach M, et al. **Transplant Proc** 1996 Oct;28(5):2447–8

Different response of intestinal and cardiac allografts to pretreatment with UV–B irradiated donor–specific leukocytes (DL) or DL alone. Gundlach M, et al. **Transplant Proc** 1996 Oct;28(5):2482–3

Extended skin allo– and xenograft survival in mice treated with rapamycin, antilymphocyte serum, and donor–specific bone marrow transfusion. Hale DA, et al. **Transplant Proc** 1996 Dec;28(6):3269

Prolongation of skin allograft survival in mice treated with CTLA–4 Ig in combination with rapamycin or cyclosporine. Hale DA, et al. **Transplant Proc** 1996 Dec; 28(6):3270–1

Effect of variable doses of antilymphocyte serum on T cell depletion and cardiac allograft survival. Hylkema MN, et al. **Transplant Proc** 1997 May;29(3):1719–20

Treatment of murine cardiac allograft by monoclonal antibodies to IL–2 receptor alpha chain and beta chain. Isobe M, et al. **Transplant Proc** 1997 Jun;29(4):2301–2

Involvement of Fas and Fas ligand interaction in allogeneic hepatocyte rejection in the spleen. Kawahara T, et al. **Transplant Proc** 1997 Jun;29(4):2187–8

Infusion of class II DIM donor bone marrow enhances islet allograft survival in low–dose CyA treated dogs. Kenyon NS, et al. **Transplant Proc** 1997 Jun;29(4):2189

Changes of antigenicity and loss of immunogenicity in long–standing class I MHC disparate pancreas allografts. Klempnauer J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1151

Possible role of preformed natural antibodies in preventing bone marrow engraftment in a discordant xenogeneic species combination (human–to–mouse). Kong SS, et al. **Transplant Proc** 1997 Jun;29(4):2069–70

Effect of mycophenolate mofetil with and without anti–CD4 (GK1.5) on fetal islet iso–, allo–, and xenografts in NOD/Lt female mice. Koulmanda M, et al. **Transplant Proc** 1997 Jun;29(4):2161–2

Therapy for mouse renal allograft rejection by monoclonal antibody to CD45RB. Lazarovits AI, et al. **Transplant Proc** 1996 Dec;28(6):3208–9

Efficacy of the malononitrilamide X 920715 as compared with leflunomide in cardiac allo– and xenotransplantation in rats. Lin Y, et al. **Transplant Proc** 1996 Dec;28(6):3036

Long–term survival of hamster–to–rat heart xenografts based on mechanisms of accommodation and tolerance of CD5 B cells. Lin Y, et al. **Transplant Proc** 1997 Aug;29(5):2355

Immunobiology of delayed xenograft rejection. Marquet RL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):955–6

Expression of dendritic cell markers on bone marrow cells in a fraction enriched for the ability to prolong skin allograft survival in ALS–treated murine recipients. Masli S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1147–8

Microchimerism in renal transplant recipients correlates with better HLA–DRB1 matched status. Matsushita K, et al. **Transplant Proc** 1997 Jun;29(4):2290–3

Pretransplant and posttransplant monitoring of anti–HLA class I IgG1 antibodies by ELISA identifies patients at high risk of graft loss. Monteiro F, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1433–4

BT563 significantly decreases sIL–2R plasma levels despite acute allograft rejection. Mueller AR, et al. **Transplant Proc** 1996 Dec;28(6):3103–5

Neonatal bone fragments for the induction of xenograft acceptance: transplantation of xenogeneic hematopoietic stem cells and species–specific microenvironment for hematopoiesis. Murase N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1201

Evidence that the adenoviral vector containing the CTLA4–Ig gene improves transgene expression and graft survival. Namii Y, et al. **Transplant Proc** 1997 May; 29(3):1738–9

Small, resting B cells induce prolonged survival of cardiac allografts mismatched for single minor, but not multiple minor, single major, or multiple major and minor histocompatibility antigens. Niimi M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1171

CD8+ host cells infiltrate the intestinal mucosa after allogeneic small bowel transplantation even in the absence of acute rejection. Nüssler NC, et al. **Transplant Proc** 1996 Oct;28(5):2456

Rat kidney graft survival after elimination of MHC class II–positive cells by perfusion with monoclonal antibody. Oko A, et al. **Transplant Proc** 1996 Dec;28(6):3480–2

CD4–targeted therapy induces "infectious" tolerance to cardiac allografts in sensitized rat recipients. Onodera K, et al. **Transplant Proc** 1997 May;29(3):1907–8

Clinical implications of DNA typing in organ transplantation. The Collaborative Transplant Study. Opelz G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1524–7

Genetic analysis of graft–versus–host disease using rat recombinant inbred strains. Panczak A, et al. **Transplant Proc** 1997 May;29(3):1734–5

Does endotoxin accelerate rejection in a cardiac allograft model? Pirenne J, et al. **Transplant Proc** 1996 Oct; 28(5):2463–4

Value of circulating immune parameters in renal transplantation. Rebhandl W, et al. **Transplant Proc** 1997 May;29(3):1881–5

Small bowel transplantation under oral immunosuppression: experimental study in the pig. Rossi G, et al. **Transplant Proc** 1997 May;29(3):1816–8

Bromocriptine prevents the immunosuppression induced in mice by anti–lymphocytic antiserum. Rosso di San Secondo VE, et al. **Transplant Proc** 1996 Dec;28(6):3193–5

Treatment of acute renal transplant rejection with FK 506 in patients on cyclosporine after failure of standard antirejection therapy. Scott–Douglas N, et al. **Transplant Proc** 1996 Dec;28(6):3165

Quantity of donor tissue and rat allograft survival. Sun J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1143–4

Presensitization and HLA match influence the predictive power of pretransplant serum IgA and IgA–anti–Fab autoantibodies in kidney graft recipients. Süsal C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1444–6

Donor–specific transfusion using mitomycin–C treated spleen cells induces significant prolongation of cardiac allograft in rats. Tanigawa T, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1149–50

Extent of chimerism determines the mode of tolerance in mixed bone marrow chimeras. Taniguchi H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1193–5

Induction of donor–specific hyporeactivity in augmented microchimerism in rat liver transplantation followed by donor bone marrow. Tashiro H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1196–7

Correlation of high–level microchimerism with graft acceptance in rat liver transplantation. Tashiro H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1230–1

Anti–VLA–4 and cyclosporine synergistically prolong rat heterotopic small bowel allografts. Tice DG, et al. **Transplant Proc** 1996 Oct;28(5):2496

Effect of donor irradiation or recipient interleukin–2 treatment on survival of spontaneously accepted rat liver allografts. Tu Y, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):856–7

CTLA4–Ig treatment prolongs rat orthotopic liver graft survival. Tu Y, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1036–7

Bronchus–associated lymphoid tissue is targeted and damaged by recipient lymphocytes in long–term–surviving rat lung allograft. Uyama T, et al. **Transplant Proc** 1997 Sep;29(6):2617–8

Long–term follow–up after induction treatment with monoclonal anti–interleukin–2 receptor antibody (BT563) in kidney allograft recipients: a double–blind, placebo–controlled trial. van Gelder T, et al. **Transplant Proc** 1996 Dec;28(6):3221–2

Impact of antibodies to leukocyte function–associated antigen–1 and intercellular adhesion molecule–1 on fetal bowel allo– and xenotransplantation in mice. Yamataka A, et al. **Transplant Proc** 1996 Oct;28(5):2494–5

Second–set rejection of skin allografts is mediated by a T cell subset in mice unable to mount a humoral response with cytotoxic antibodies. Yoshimura R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):868

Significant effect of high–resolution HLA–DRB1 matching in high–risk corneal transplantation. Baggesen K, et al. **Transplantation** 1996 Nov 15;62(9):1273–7

Amplification of natural regulatory immune mechanisms for transplantation tolerance. Chen ZK, et al. **Transplantation** 1996 Nov 15;62(9):1200–6

No advantage of flow cytometry crossmatch over complement–dependent cytotoxicity in immunologically well–documented renal allograft recipients. Christiaans MH, et al. **Transplantation** 1996 Nov 15;62(9):1341–7

Cross–matching in liver transplantation. Donaldson PT, et al. **Transplantation** 1997 Mar 27;63(6):789–94 (65 ref.)

Dependence of acquired systemic tolerance to rat islet allografts induced by intrathymic soluble alloantigens on host responsiveness, MHC differences, and transient immunosuppression in the high responder recipient. Fiedor P, et al. **Transplantation** 1997 Jan 27;63(2):279–83

Costimulatory molecule–deficient dendritic cell progenitors (MHC class II+, CD80dim, CD86–) prolong cardiac allograft survival in nonimmunosuppressed recipients. Fu F, et al. **Transplantation** 1996 Sep 15;62(5):659–65

Expression of CTLA4–Ig by biolistically transfected mouse islets promotes islet allograft survival. Gainer AL, et al. **Transplantation** 1997 Apr 15;63(7):1017–21

Use of CTLA4–Ig in combination with conventional immunosuppressive agents to prolong allograft survival. Hale DA, et al. **Transplantation** 1997 Sep 27;64(6):897–900

Evidence that the continued presence of the organ graft and not peripheral donor microchimerism is essential for maintenance of tolerance to alloantigen in vivo in anti–CD4 treated recipients. Hamano K, et al. **Transplantation** 1996 Sep 27;62(6):856–60

Interleukin (IL) 4, the cytokine that isn't there: reactivity of IL–4 antibodies with cells in IL–4 –/– mice. Mottram PL, et al. **Transplantation** 1997 Mar 27;63(6):911–4

Association between HLA–DPB1 matching and 1–year rejection–free graft survival in high–risk corneal transplantation. Munkhbat B, et al. **Transplantation** 1997 Apr 15;63(7):1011–6

Sequential cytokine expression in renal allografts in rats immunosuppressed with maintenance cyclosporine or mycophenolate mofetil. Nadeau KC, et al. **Transplantation** 1996 Nov 15;62(9):1363–6

Long–term survival of solid organ allografts by brief anti–lymphocyte function–associated antigen–1 monoclonal antibody monotherapy. Nakakura EK, et al. **Transplantation** 1996 Sep 15;62(5):547–52

Are Th2 helper T lymphocytes beneficial, deleterious, or irrelevant in promoting allograft survival? Piccotti JR, et al. **Transplantation** 1997 Mar 15;63(5):619–24 (50 ref.)

Effect of continuous complement inhibition using soluble complement receptor type 1 on survival of pig–to–primate cardiac xenografts. Pruitt SK, et al. **Transplantation** 1997 Mar 27;63(6):900–2

Microchimerism: inaccurate literature citations [letter] Starzl TE, et al. **Transplantation** 1996 Sep 15;62(5):703

Rejection of spontaneously accepted rat liver allografts with recipientinterleukin–2 treatment or donor irradiation. Tu Y, et al. **Transplantation** 1997 Jan 27;63(2):177–81

PHYSIOLOGY

Relationships between arterial hypertension and renal allograft survival in African–American patients. Cosio FG, et al. **Am J Kidney Dis** 1997 Mar;29(3):419–27

Engraftment of embryonic hematopoietic cells in conditioned newborn recipients. Yoder MC, et al. **Blood** 1997 Mar 15; 89(6):2176–83

Recipient bed vascularity and the survival of ischaemic flaps. Wang HJ, et al. **Br J Plast Surg** 1997 Jun;50(4):266–71

Plasminogen activator inhibitor–1 in neointima of vein grafts: its role in reduced fibrinolytic potential and graft failure. Kauhanen P, et al. **Circulation** 1997 Sep 16;96(6):1783–9

Effect of nifedipine on renal allograft function and survival beyond one year. Shin GT, et al. **Clin Nephrol** 1997 Jan; 47(1):33–6

The fate of scleral grafts in the cornea. Maurice DM, et al. **Cornea** 1996 Mar;15(2):204–9

Effect of cortical perforations of both graft and host bed on onlay incorporation to the rat skull. Alberius P, et al. **Eur J Oral Sci** 1996 Oct–Dec;104(5–6):554–61

Pancreatic islet xenografts at two different transplantation sites (renal subcapsular versus intraportal): comparison of graft survival and morphology. Jaeger C, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:123–8

Comparison of the survival of fresh or cultured pancreatic islets, pseudoislets and single cells following allotransplantation beneath the kidney capsule in non–immunosuppressed diabetic rats. Wolf–Jochim M, et al. **Exp Clin Endocrinol Diabetes** 1995;103 Suppl 2:118–22

Functional interactions between spinal cord grafts suggest asymmetries dictated by graft maturity. Trok K, et al. **Exp Neurol** 1997 May;145(1):268–77

Serum hyaluronic acid as a reliable parameter of allograft viability in porcine liver transplantation. Soejima Y, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):590–5

Mature but not fetal or neonatal rat superior cervical ganglion transplants survive in the cortex of adult rats. Tuba A, et al. **Int J Dev Neurosci** 1996 Aug;14(5):631–40

Combined liver–spleen–small intestine grafting in a rat model: role of transplanting additional lymphoid tissue on survival. D'Silva M, et al. **Int Surg** 1996 Apr–Jun;81(2):109–14

Angiotensin–converting enzyme genotype and renal allograft survival. Beige J, et al. **J Am Soc Nephrol** 1997 Aug; 8(8):1319–23

Recipient body size and cadaveric renal allograft survival. Feldman HI, et al. **J Am Soc Nephrol** 1996 Jan;7(1):151–7

Transplantation performance of human skin cryopreserved by programmed or stepwise freezing and stored at –80 degrees C or –180 degrees C. Ben–Bassat H, et al. **J Burn Care Rehabil** 1996 Sep–Oct;17(5):421–8

Evaluation of pedicled skin flap viability by pH, temperature and fluorescein: an experimental study. Issing WJ, et al. **J Craniomaxillofac Surg** 1996 Oct;24(5):305–9

Graft dysfunction following liver transplantation: role of free radicals. Bzeizi KI, et al. **J Hepatol** 1997 Jan;26(1):69–74

A new experimental model for simultaneous evaluation of aortic and pulmonary allograft performance in a composite graft. Shimokawa S, et al. **J Invest Surg** 1996 Nov–Dec; 9(6):487–93

The effect of donor and recipient age on engraftment of tissue–engineered liver. Cusick RA, et al. **J Pediatr Surg** 1997 Feb;32(2):357–60

Outcome of pediatric cadaveric renal transplantation: a 10 year study. Johnson RW, et al. **Kidney Int Suppl** 1996 Jan; 53:S72–6

Good engraftment of B–cell precursor ALL in NOD–SCID mice. Baersch G, et al. **Klin Padiatr** 1997 Jul–Aug; 209(4):178–85

The effects of macrophages on the survival of random skin flaps in swine. Brewster D, et al. **Laryngoscope** 1996 Sep; 106(9 Pt 1):1094–8

Adhesion molecules in rejection and tolerance of allografts. Hourmant M, et al. **Nephrol Dial Transplant** 1996 Aug; 11(8):1661–6

Influence of proteinuria on long–term transplant survival in kidney transplant recipients. Hohage H, et al. **Nephron** 1997;75(2):160–5

Role of preoperative donor–specific transfusion and cyclosporine in haplo–identical living related renal transplant recipients. Sharma RK, et al. **Nephron** 1997; 75(1):20–4

Comparison of full thickness skin graft "take" after excision with the carbon dioxide laser and scalpel. Schmidt BL, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Feb;83(2):206–14

Impact of age on renal graft survival in children after the first rejection episode. Ingulli E, et al. **Pediatr Nephrol** 1996 Aug;10(4):474–8

GRAFT SURVIVAL

Graft damage after a single lung transplantation for pulmonary hypertension in a rat model. Yamamoto S, et al. **Surg Today** 1997;27(1):51–6

Impact of natural killer cells and macrophages on the course of acute graft rejection following allogeneic heart transplantation in the rat. Dresske B, et al. **Transplant Proc** 1996 Dec;28(6):3259–60

Portal venous drainage is not beneficial in multivisceral small bowel allografts. D'Silva M, et al. **Transplant Proc** 1996 Oct;28(5):2475–6

Transplanted cardiomyocytes survive in scar tissue and improve heart function. Jia ZQ, et al. **Transplant Proc** 1997 Jun;29(4):2093–4

Prevention of primary nonfunction after porcine islet allotransplantation. Liu X, et al. **Transplant Proc** 1997 Jun; 29(4):2071–2

Paneth and goblet cells modify their sugar moieties during acute rejection and up to one year after small bowel transplantation in rats. Michalski S, et al. **Transplant Proc** 1996 Oct;28(5):2477–8

Immunosuppressive power and limitations of FK 506 for prevention and treatment of graft–vs–host disease after small bowel transplantation. Platz KP, et al. **Transplant Proc** 1996 Oct;28(5):2523–4

Donor pretreatment with methylprednisolone synergistically prolongs survival of cardiac allografts in sensitized rat recipients conditioned with rapamycin. Schmidbauer G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):607–8

Donor–recipient cross has marked impact on islet survival and primary nonfunction. Weide LG. **Transplant Proc** 1997 Jun;29(4):2196

CD45RB monoclonal antibody induces tolerance in the mouse kidney graft, but fails to prevent small bowel graft rejection. Zhang Z, et al. **Transplant Proc** 1996 Oct; 28(5):2514

Delayed graft function: risk factors and implications for renal allograft survival. Ojo AO, et al. **Transplantation** 1997 Apr 15;63(7):968–74

Bone marrow and splenocyte coculture–generated cells enhance allograft survival. Valente JF, et al. **Transplantation** 1997 Jul 15;64(1):114–23

Immunosuppression by inhibition of cellular adhesion mediated by leukocyte function–associated antigen–1/intercellular adhesion molecule–1 in murine cardiac transplantation. Xu XY, et al. **Transplantation** 1997 Mar 27;63(6):876–85

[Effect of high recipient age on transplant survival after kidney transplantation] Albrecht KH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:399–401 **(Ger)**

[Acoustic estimation of skin graft in children with postburn contractures] Fedorova VN, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):478–80 **(Rus)**

[The viability and blood supply of experimental autografts on a venous vascular pedicle] Radomskii AA. **Klin Khir** 1995;(1):29–32 **(Rus)**

[The significance of the vascularization of embryonic donor brain for the viability of intraocular transplants in the rat] Tuba A, et al. **Morfologiia** 1996;110(4):29–32 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

F1 hybrid resistance and self–tolerance in graft–versus–host mice. Baron C, et al. **Transplant Proc** 1996 Oct;28(5):2921–2

GRAFT–VERSUS–HOST DISEASE see **GRAFT VS HOST DISEASE**

GRAFT VS HOST DISEASE

Principles of graft–vs.–leukemia reactivity. Truitt RL, et al. **Biol Blood Marrow Transplant** 1995 Dec;1(2):61–8 (71 ref.)

Donor lymphocyte infusions (DLI) in patients with chronic myeloid leukemia following allogeneic bone marrow transplantation. Bacigalupo A, et al. **Bone Marrow Transplant** 1997 May;19(9):927–32

Enhanced graft–versus–host disease in older recipient mice following allogeneic bone marrow transplantation. Bryson JS, et al. **Bone Marrow Transplant** 1997 Apr;19(7):721–8

Influence of graft–versus–host disease on outcome following allogeneic transplantation with radiation–free preparative therapy in patients with advanced leukemia. Copelan EA, et al. **Bone Marrow Transplant** 1996 Nov;18(5):907–11

BMT from unrelated (UD) or family donors other than HLA identical siblings (FDNS), GVHD prophylaxis, incidence and treatment. Ladenstein R, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:86–91

Blood cell and bone marrow transplants. Lazarus HM, et al. **Bone Marrow Transplant** 1996 Nov;18(5):839–41

Allogeneic peripheral blood stem cell transplantation for haematological malignancies––an analysis of kinetics of engraftment and GVHD risk. Miflin G, et al. **Bone Marrow Transplant** 1997 Jan;19(1):9–13

Abrupt cessation of immunosuppression in a patient with persistent acute lymphoblastic leukaemia following allogeneic transplantation. Rymes NL, et al. **Clin Lab Haematol** 1996 Mar;18(1):45–6

Graft–versus–host disease and graft–versus–leukemia. Michallet M. **Hematol Cell Ther** 1996 Oct;38(5):459–60 (15 ref.)

Autologous graft–versus–host disease. Karasuno T. **Int J Hematol** 1997 Feb;65(2):105–13 (62 ref.)

Graft versus leukemia (GVL) in the therapy of acute lymphoblastic leukemia (ALL). Appelbaum FR. **Leukemia** 1997 May;11 Suppl 4:S15–7 (12 ref.)

Effects of nicotine and exposure to cigarette smoke on suppression of local graft–versus–host reaction induced by immobilization stress in mice. Gomita Y, et al. **Methods Find Exp Clin Pharmacol** 1996 Nov;18(9):573–7

BLOOD

Eosinophilia after allogeneic bone marrow transplantation using busulfan and cyclophosphamide conditioning regimen [letter; comment] Arslan O, et al. **Bone Marrow Transplant** 1996 Jul;18(1):261. Comment on: Bone Marrow Transplant 1994 Jul;14(1):113–5.

Decreased interleukin 10 and increased interferon–gamma production in patients with chronic graft–versus–host disease after allogeneic bone marrow transplantation. Körholz D, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):691–5

Kupffer cell erythrophagocytosis and graft–versus–host hemolysis in liver transplantation. Clavien PA, et al. **Gastroenterology** 1996 Jun;110(6):1891–6

Plasma cytokines in graft vs host disease and complications following bone marrow transplantation. Abdallah AN, et al. **Hematol Cell Ther** 1997 Feb;39(1):27–32

Serum thrombopoietin level after allogeneic bone marrow transplantation: possible correlations with platelet recovery, acute graft–versus–host disease and hepatic veno–occlusive disease. Nagoya Bone Marrow Transplantation Group. Hamaguchi M, et al. **Int J Hematol** 1996 Oct;64(3–4):241–8

CHEMICALLY INDUCED

Experimental graft versus host disease in the (BN x LEW) F1 rat hybrid as a model for autoimmune disease. Study of early adenitis in lacrimal and salivary glands. Peszkowski MJ, et al. **Autoimmunity** 1996;24(2):101–11

Progressive autologous graft–versus–host disease induced by cyclosporin A. Barredo JC, et al. **Bone Marrow Transplant** 1996 Sep;18(3):659–62

Cyclosporin A/alpha interferon–induced autologous graft–versus–host disease following peripheral blood stem cell transplant for chronic myeloid leukaemia: a clinico–pathological study. Lim SH, et al. **Bone Marrow Transplant** 1997 Jul;20(1):83–5

Cyclosporine–induced autologous graft–versus–host disease following autologous blood stem cell transplantation for lymphoma. Pati AR, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1081–3

Phase I trial of cyclosporine–induced autologous graft–versus–host disease in patients with multiple myeloma undergoing high–dose chemotherapy with autologous stem–cell rescue. Giralt S, et al. **J Clin Oncol** 1997 Feb; 15(2):667–73

Failure of cyclosporine to induce graft–vs–host disease or graft–vs–leukemia after syngeneic bone marrow transplantation in mice. Singhal S, et al. **Leuk Res** 1996 Nov–Dec;20(11–12):941–6

COMPLICATIONS

Reversible leukoencephalopathy associated with graft–versus–host disease: MR findings. Provenzale JM, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1290–4

Bullous esophagitis due to chronic graft–versus–host disease. Minocha A, et al. **Am J Gastroenterol** 1997 Mar; 92(3):529–30 (7 ref.)

Unexplained effusions: association with allogeneic bone marrow transplantation and acute or chronic graft–versus–host disease [letter; comment] Pretnar J, et al. **Bone Marrow Transplant** 1996 Oct;18(4):826. Comment on: Bone Marrow Transplant 1996 Feb;17(2):207–11.

Graft–versus–host disease–like eruption in a patient with non–Hodgkin's lymphoma. Parkes IR, et al. **Br J Dermatol** 1997 Jul;137(1):137–9

Alopecia in liver transplant recipients [letter; comment] Sale GE. **Br J Dermatol** 1997 Apr;136(4):635. Comment on: Br J Dermatol 1995 Oct;133(4):663–4.

Differential effects of sex hormones on autoantibody production and proteinuria in chronic graft–versus–host disease–induced experimental lupus nephritis. Van Griensven M, et al. **Clin Exp Immunol** 1997 Feb; 107(2):254–60

The ocular manifestations of graft–versus–host disease. Johnson DA, et al. **Int Ophthalmol Clin** 1997 Spring; 37(2):119–33 (41 ref.)

Radiation recall dermatitis [letter] Ben–Yosef H. **Lancet** 1996 Nov 9;348(9037):1321

Pilocarpine hydrochloride for symptomatic relief of xerostomia due to chronic graft–versus–host disease or total–body irradiation after bone–marrow transplantation for hematologic malignancies. Singhal S, et al. **Leuk Lymphoma** 1997 Feb;24(5–6):539–43

A single course of remission reinduction chemotherapy for acute myelogenous leukemia relapsing after allogeneic bone marrow transplantation is complicated by graft–versus–host disease and followed by sustained complete remission. Vandenberghe P, et al. **Leukemia** 1997 Oct;11(10):1775–8

Bronchiolitis obliterans presenting as subcutaneous emphysema and pneumomediastinum: a case report. Toren A, et al. **Med Oncol** 1996 Dec;13(4):195–7

Gingival squamous cell carcinoma in a patient with chronic graft–versus–host disease. Otsubo H, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):171–4

Bronchiectasis in bone marrow transplantation [see comments] Morehead RS. **Thorax** 1997 Apr;52(4):392–3. Comment in: Thorax 1997 Apr;52(4):390–1.

Respiratory conditions associated with haematological malignancies [see comments] Wickremasinghe M. **Thorax** 1997 Apr;52(4):390–1. Comment in: Thorax 1997 Apr;52(4):392–3. Comment in: Thorax 1997 Apr;52(4):394–5.

[Thrombotic thrombocytopenic purpura in bone marrow graft rejection (clin conference)] Pasquasy V, et al. **Rev Med Liege** 1996 Nov;51(11):714–7 **(Fre)**

[A case of nephrotic syndrome after bone marrow transplantation] Yabana M, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):414–20 (18 ref.) (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Gastric graft–versus–host disease: a blinded histologic study. Washington K, et al. **Am J Surg Pathol** 1997 Sep; 21(9):1037–46

Cutaneous manifestations of chronic graft–versus–host disease. Andrews ML, et al. **Australas J Dermatol** 1997 May;38(2):53–62; quiz 63–4 (79 ref.)

De novo chronic graft–versus–host disease presenting as hemolytic anemia following partially mismatched related donor bone marrow transplant. Godder K, et al. **Bone Marrow Transplant** 1997 Apr;19(8):813–7

Serum HLA class I antigen levels in allogeneic bone marrow transplantation: a possible marker of acute GVHD. Puppo F, et al. **Bone Marrow Transplant** 1996 May;17(5):753–8

The role of endoscopic evaluation in patients with suspected intestinal graft–versus–host disease after allogeneic bone–marrow transplantation. Terdiman JP, et al. **Endoscopy** 1996 Oct;28(8):680–5

Severe graft versus host disease following liver transplantation confirmed by PCR–HLA–B sequencing: report of a case and literature review. Sanchez–Izquierdo JA, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):1057–61 (17 ref.)

Scaling lichenoid eruptions and Sjögren–like syndrome: manifestations of nonfatal postoperative transfusion–associated graft–versus–host disease? Tanei R, et al. **J Dermatol** 1997 Aug;24(8):514–21

MR findings of intestinal graft–versus–host disease. Worawattanakul S, et al. **Magn Reson Imaging** 1996; 14(10):1221–3

Polymyositis as a manifestation of chronic graft–versus–host disease. Parker P, et al. **Medicine (Baltimore)** 1996 Sep; 75(5):279–85 (14 ref.)

Transfusion–associated graft–versus–host disease diagnosed by polymerase chain reaction analysis of DNA microsatellites: an autopsy case with immunohistochemical investigation. Kumamoto H, et al. **Tohoku J Exp Med** 1996 Aug;179(4):281–9

Serum interferon–gamma and C–reactive protein levels as predictors of acute graft–vs–host disease in allogeneic hematopoietic precursor cell (marrow or peripheral blood progenitor cells) recipients. Lange A, et al. **Transplant Proc** 1996 Dec;28(6):3522–5

Transplantation of small bowel alone or with the liver in pigs: use of peripheral blood lymphocytes in monitoring rejection. Perego C, et al. **Transplant Proc** 1997 May; 29(3):1821–2

Detection of keratinocyte–specific helper T–lymphocyte precursor cells for prediction of acute graft–versus–host–disease. van Dijk AM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):720–1

[Frequency of cytotoxic and helper T–lymphocyte precursors in donors with alloreactivity to recipient histocompatibility antigens. Possible use in predicting acute graft vs host disease in bone marrow transplantation] Čukrová V, et al. **Cas Lek Cesk** 1997 Feb 5;136(3):80–4 (Eng. Abstr.) **(Cze)**

DRUG THERAPY

Inhibition of collagen type I synthesis by skin fibroblasts of graft versus host disease and scleroderma patients: effect of halofuginone. Halevy O, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1057–63

Modulation of in vitro and in vivo T–cell responses by transferrin–gallium and gallium nitrate. Drobyski WR, et al. **Blood** 1996 Oct 15;88(8):3056–64

Treatment of chronic graft–versus–host disease with clofazimine. Lee SJ, et al. **Blood** 1997 Apr 1;89(7):2298–302

Inhibitory effect of a CD4–CDR3 peptide analog on graft–versus–host disease across a major histocompatibility complex–haploidentical barrier. Townsend RM, et al. **Blood** 1996 Oct 15;88(8):3038–47

Complete remission of lichen–planus–like graft–versus–host disease (GVHD) with extracorporeal photochemotherapy (ECP). Gerber M, et al. **Bone Marrow Transplant** 1997 Mar; 19(5):517–9

The effect of hydroxychloroquine on alloreactivity and its potential use for graft–versus–host disease. Gilman AL, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1069–75

Nedocromil sodium ameliorates skin manifestations in a murine model of chronic graft–versus–host disease. Levi–Schaffer F, et al. **Bone Marrow Transplant** 1997 Apr;

19(8):823–8
Successful use of topical retinoic acid in severe dry eye due to chronic graft–versus–host disease. Murphy PT, et al. **Bone Marrow Transplant** 1996 Sep;18(3):641–2
Extracorporeal photochemotherapy for the treatment of graft–versus–host disease. Rossetti F, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:175–81
A survey of the prophylaxis and treatment of acute GVHD in Europe: a report of the European Group for Blood and Marrow, Transplantation (EBMT). Chronic Leukaemia Working Party of the EBMT. Ruutu T, et al. **Bone Marrow Transplant** 1997 Apr;19(8):759–64
Very low–dose methotrexate in the treatment of GVHD in children. Vettenranta K, et al. **Bone Marrow Transplant** 1997 Jul;20(1):75–7
Treatment of chronic graft–versus–host disease with ultraviolet irradiation and psoralen (PUVA). Vogelsang GB, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1061–7
Chronic graft–versus–host disease: successful treatment with extracorporeal photochemotherapy: a follow–up [letter] Konstantinow A, et al. **Br J Dermatol** 1996 Dec; 135(6):1007–8
Photopheresis in paediatric patients with drug–resistant chronic graft–versus–host disease. Dall'Amico R, et al. **Br J Haematol** 1997 Jun;97(4):848–54
Orthoclone OKT3 for graft failure after allogeneic bone marrow transplantation: a case report. Yen CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Feb; 59(2):126–31
Studies on the mechanism and specificity of the effect of the synthetic random copolymer GLAT on graft–versus–host disease. Aharoni R, et al. **Immunol Lett** 1997 Jul;58(2):79–87
The lysosomotropic amines, chloroquine and hydroxychloroquine: a potentially novel therapy for graft–versus–host disease. Schultz KR, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):201–10 (59 ref.)
Topical cyclosporine in a bioadhesive for treatment of oral lichenoid mucosal reactions: an open label clinical trial. Epstein JB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):532–6
Potential usefulness of protease inhibitor and chloroquine in the treatment of transfusion–associated graft–versus–host disease [letter] Nishimura M, et al. **Transfusion** 1997 Jul; 37(7):768–70
Circumvention of natural killer cell and T–cell mediated allogeneic target killing with tacrolimus (FK506) in small bowel transplantation related graft–vs–host disease. Fändrich F, et al. **Transpl Int** 1996;9 Suppl 1:S263–8
Immunosuppressive power and limitations of FK 506 for prevention and treatment of graft–vs–host disease after small bowel transplantation. Platz KP, et al. **Transplant Proc** 1996 Oct;28(5):2523–4
Treatment of graft–versus–host disease by extracorporeal photochemotherapy: a pilot study. Besnier DP, et al. **Transplantation** 1997 Jul 15;64(1):49–54
Attenuation of lethal graft–versus–host disease by inhibition of nitric oxide synthase. Hoffman RA, et al. **Transplantation** 1997 Jan 15;63(1):94–100
A clinical phase I/II study of recombinant human interleukin–1 receptor in glucocorticoid–resistant graft–versus–host disease. McCarthy PL Jr, et al. **Transplantation** 1996 Sep 15;62(5):626–31
–Rejection of an allogeneic bone marrow graft following successful treatment of severe graft–versus–host disease (GVHD)] Sugimori N, et al. **Rinsho Ketsueki** 1996 Feb; 37(2):134–8 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Polymorphism of adhesion molecule CD31 is not a significant risk factor for graft–versus–host disease. Nichols WC, et al. **Blood** 1996 Dec 15;88(12):4429–34
High incidence of chronic GVHD after primary allogeneic peripheral blood stem cell transplantation in patients with hematologic malignancies. Majolino I, et al. **Bone Marrow Transplant** 1996 Apr;17(4):555–60
Incidence of graft vs host disease in allogeneic bone marrow transplantation in a single center study from Turkey. Ilhan O, et al. **Hematol Cell Ther** 1997 Jun;39(3):133–6
Modelling prevalence of a condition: chronic graft–versus–host disease after bone marrow transplantation. Couper D, et al. **Stat Med** 1997 Jul 30; 16(14):1551–71 (11 ref.)
Distribution of the dendritic cell in human organs and the incidence of GVHD. Wakabayashi T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):737–8
Graft–versus–host disease after bone marrow transplantation for thalassemia: an analysis of incidence and risk factors. Gaziev D, et al. **Transplantation** 1997 Mar 27;63(6):854–60
Donor helper T–cell frequencies as predictors of acute graft–versus–host disease in bone marrow transplantation between HLA–identical siblings. Weston LE, et al. **Transplantation** 1997 Sep 27;64(6):836–41

ETHNOLOGY

Graft–versus–host disease. Possible higher risk for African American patients. Easaw SJ, et al. **Cancer** 1996 Oct 1; 78(7):1492–7
Placental–blood transplantation [letter; comment] Abecasis MM, et al. **N Engl J Med** 1997 Jan 2;336(1):69; discussion 69–70. Comment on: N Engl J Med 1996 Jul 18;335(3):157–66.

ETIOLOGY

Moderate and transient transfusion–associated cutaneous graft–versus–host disease in a child infected by human immunodeficiency virus. Klein C, et al. **Am J Med** 1996 Oct;101(4):445–6
Long–term engraftment, graft–vs.–host disease, and immunologic reconstitution after experimental transplantation of allogeneic peripheral blood cells from G–CSF–treated donors. Pan L, et al. **Biol Blood Marrow Transplant** 1996 Oct;2(3):126–33
What risk of inducing GVHD is associated with allogeneic grafts of PBPC as compared to bone marrow? [letter] van Bekkum DW. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):107
Characterization of T–cell clones derived from peripheral blood lymphocytes of a patient with transfusion–associated graft–versus–host disease: Fas–mediated killing by CD4+ and CD8+ cytotoxic T–cell clones and tumor necrosis factor beta production by CD4+ T–cell clones. Nishimura M, et al. **Blood** 1997 Feb 15;89(4):1440–5
Thalidomide–responsive chronic pulmonary GVHD [letter; comment] Chen F, et al. **Bone Marrow Transplant** 1997 Jan;19(1):95–6. Comment on: Bone Marrow Transplant 1996 Feb;17(2):291–3.
De novo chronic graft–versus–host disease presenting as hemolytic anemia following partially mismatched related donor bone marrow transplant. Godder K, et al. **Bone Marrow Transplant** 1997 Apr;19(8):813–7
Anxiety as a possible predictor of acute GVHD. Gregurek R, et al. **Bone Marrow Transplant** 1996 Sep;18(3):585–9
Effect of mixed chimerism on graft–versus–host disease, disease recurrence and survival after HLA–identical marrow transplantation for aplastic anemia or chronic myelogenous leukemia. Huss R, et al. **Bone Marrow Transplant** 1996 Oct;18(4):767–76
Bronchiolitis obliterans organizing pneumonia and chronic graft–versus–host disease in a child after allogeneic bone marrow transplantation. Kleinau I, et al. **Bone Marrow Transplant** 1997 Apr;19(8):841–4
Clinical features and successful recovery from disseminated nocardiosis after BMT. Machado CM, et al. **Bone Marrow Transplant** 1997 Jan;19(1):81–2
Increased frequency of autoaggression syndrome associated with autologous stem cell transplantation in breast cancer patients. Moreb JS, et al. **Bone Marrow Transplant** 1997 Jan;19(2):101–6
Treatment of leukemia with partially matched related bone marrow transplantation. Munn RK, et al. **Bone Marrow Transplant** 1997 Mar;19(5):421–7
Cytokine expression in human cutaneous chronic graft–versus–host disease. Ochs LA, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1085–92
Fatal GVHD demonstrating an involvement of respiratory muscle following donor leukocyte transfusion (DLT). Oshima Y, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):737–40
Spontaneous graft–versus–host disease following autologous peripheral blood progenitor cell transplantation in chronic myeloid leukaemia. Rainey MG, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1077–9
Graft–versus–leukemia effect after allogeneic bone marrow transplantation for chronic lymphocytic leukemia. Rondón G, et al. **Bone Marrow Transplant** 1996 Sep;18(3):669–72
Severe acute graft–versus–host disease of conjunctivae after allogeneic blood progenitor cell infusion. Spiro TP, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1179–80
Allogeneic peripheral blood progenitor cell transplantation: analysis of short–term engraftment and acute GVHD incidence in 33 cases. allo–PBPCT Spanish Group. Urbano–Ispizua A, et al. **Bone Marrow Transplant** 1996 Jul;18(1):35–40
Allogeneic blood or marrow transplantation for chronic lymphocytic leukaemia: timing of transplantation and potential effect of fludarabine on acute graft–versus–host disease. Khouri IF, et al. **Br J Haematol** 1997 May; 97(2):466–73
Hepatic GVHD after HLA–haploidentical bone marrow transplantation in children with severe combined immunodeficiency: the effect of ursodeoxycholic acid. Wulffraat NM, et al. **Br J Haematol** 1997 Mar;96(4):776–80
Graft–vs.–host disease. Woo SB, et al. **Crit Rev Oral Biol Med** 1997;8(2):201–16 (138 ref.)
Ophthalmological aspects in allogenic bone marrow transplantation: Sjögren–like syndrome in graft–versus–host disease. Mencucci R, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):13–8
Testicular relapse of AML during chronic graft–versus–host disease induced by donor leukocyte infusion. Tringali S, et al. **Haematologica** 1996 Jul–Aug;81(4):339–42
Incidence of graft vs host disease in allogeneic bone marrow transplantation in a single center study from Turkey. Ilhan O, et al. **Hematol Cell Ther** 1997 Jun;39(3):133–6
The potential role of NK cells in the separation of graft–versus–tumor effects from graft–versus–host disease after allogeneic bone marrow transplantation. Murphy WJ, et al. **Immunol Rev** 1997 Jun;157:167–76 (83 ref.)
The kidney triggers graft–versus–host disease in experimental combined transplantation of kidney and stem cell–enriched peripheral leukocytes [published erratum appears in J Am Soc Nephrol 1996 Dec;7(12):2645] Perico N, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2254–8
Studies on transient graft–versus–host disease in BALB/c nude mice injected with allogeneic C57BL/6 splenocytes. Kihara T, et al. **J Dermatol Sci** 1996 Jan;11(1):76–83
IL–12 is a central mediator of acute graft–versus–host disease in mice. Williamson E, et al. **J Immunol** 1996 Jul 15; 157(2):689–99
Steroid–refractory cutaneous graft–versus–host disease after transplantation of haploidentical parental CD34+ cells in children with Down's syndrome and recurrent acute leukemia. Mogul MJ, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):142–4
Longterm followup and quality of life after hematopoietic stem cell transplantation. Sullivan KM. **J Rheumatol Suppl** 1997 May;48:46–52 (50 ref.)
Acute graft–versus–host disease after human heart–lung transplantation: a case report. Pfitzmann R, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):285–7
Transfusion–associated graft–versus–host disease in ataxia telangiectasia [letter] Watson HG, et al. **Lancet** 1997 Jan 18;349(9046):179
The highest leukaemia–free survival after allogeneic bone marrow transplantation is seen in patients with grade I acute graft–versus–host disease. Acute and Chronic Leukaemia Working Parties of the European Group for Blood and Marrow Transplantation (EBMT). Ringdén O, et al. **Leuk Lymphoma** 1996 Dec;24(1–2):71–9
Transfusion–associated graft–versus–host disease. Gresik MV. **Pediatr Pathol Lab Med** 1996 Jan–Feb;16(1):137–42
Cytomegalovirus infections in transplant patients. Ljungman P. **Scand J Infect Dis Suppl** 1996;100:59–63 (35 ref.)
In vivo depletion of NKR–P1 positive cells in the recipient prior to small bowel transplantation enhances graft–versus–host disease (GvHD) in the rat. Fändrich F, et al. **Transpl Int** 1996;9 Suppl 1:S275–80
Surgical damage itself induces graft–versus–host disease—a preliminary report. Kobayashi E, et al. **Transplant Proc** 1996 Dec;28(6):3652–3
CD4+ and CD8+ T cells each can utilize a perforin–dependent pathway to mediate lethal graft–versus–host disease in major histocompatibility complex–disparate recipients. Blazar BR, et al. **Transplantation** 1997 Aug 27;64(4):571–6
Denuded bowel after recovery from graft–versus–host disease. Fox RJ, et al. **Transplantation** 1996 Dec 15; 62(11):1681–4
Lethal graft–versus–host disease after simultaneous kidney–pancreas transplantation. Kimball P, et al. **Transplantation** 1997 Jun 15;63(11):1685–8
Increased expression of tissue cytokines in graft–versus–host disease after small bowel transplantation in the rat. Koide S, et al. **Transplantation** 1997 Aug 15;64(3):518–24
[Post–transfusion GVHD] Ito K. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):834–8 (5 ref.) **(Jpn)**
[Nephrotic syndrome related to chronic graft versus host disease after allogeneic bone marrow transplantation in a patient with malignant lymphoma] Haseyama K, et al. **Rinsho Ketsueki** 1996 Dec;37(12):1383–8 (20 ref.) (Eng. Abstr.) **(Jpn)**
[Posttransfusion GVHD] Ito K. **Rinsho Ketsueki** 1996 Jun; 37(6):488–91 (13 ref.) **(Jpn)**
[Unfavorable effects of transfusion at the Japanese Red Cross Central Blood Center] Juji T. **Rinsho Ketsueki** 1997 Apr; 38(4):245–8 **(Jpn)**

GENETICS

Genetic analysis of graft–versus–host disease using rat recombinant inbred strains. Panczak A, et al. **Transplant Proc** 1997 May;29(3):1734–5

IMMUNOLOGY

The immunobiology of T cell therapies for leukemias. Shlomchik WD, et al. **Acta Haematol** 1996;96(4):189–213 (145 ref.)
Rat stem cells developing in irradiated SCID mice fail to become tolerized and cause lethal graft–versus–host disease. Surh CD, et al. **Am J Pathol** 1997 Aug;151(2):591–9
Retroviral vectors for production of interleukin–12 in the bone marrow to induce a graft–versus–leukemia effect. Hawley RG, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:341–5
Graft–versus–host disease: the viewpoint from the donor T cell. Chao NJ. **Biol Blood Marrow Transplant** 1997 Apr; 3(1):1–10 (82 ref.)
Allospecific CD4+, Th1/Th2 and CD8+, Tc1/Tc2 populations in murine GVL: type I cells generate GVL and type II cells abrogate GVL. Fowler DH, et al. **Biol Blood Marrow Transplant** 1996 Oct;2(3):118–25
Inter–strain graft–vs.–host disease T–cell responses to immunodominant minor histocompatibility antigens. Korngold R, et al. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):57–64
Will killing the last HIV1 particle cure AIDS patients? Doesn't CMV activation and/or a graft–versus–host component of the disease, also have to be considered? I. First of two parts [editorial] Mathé G. **Biomed Pharmacother** 1996;50(5):185–206 (140 ref.)
The role of B7 costimulation by murine acute myeloid leukemia in the generation and function of a CD8+ T–cell line with potent in vivo graft–versus–leukemia properties.

Boyer MW, et al. **Blood** 1997 May 1;89(9):3477–85

Specificity of effector T lymphocytes in autologous graft–versus–host disease: role of the major histocompatibility complex class II invariant chain peptide. Hess AD, et al. **Blood** 1997 Mar 15;89(6):2203–9

Expression of the T–cell activation antigen, OX–40, identifies alloreactive T cells in acute graft–versus–host disease. Tittle TV, et al. **Blood** 1997 Jun 15;89(12):4652–8

Transfusion–associated graft–versus–host disease and its prevention. Williamson LM, et al. **Blood Rev** 1995 Dec; 9(4):251–61 (74 ref.)

Preferential usage of T cell receptor (TCR) V beta by allogeneic T cells recognizing myeloid leukemia cells: implications for separating graft–versus–leukemia effect from graft–versus–host disease. Jiang YZ, et al. **Bone Marrow Transplant** 1997 May;19(9):899–903

Elevated serum HLA class I levels coincide with acute and chronic graft–versus–host disease. Liem LM, et al. **Bone Marrow Transplant** 1997 Aug;20(3):227–34

Antineutrophil cytoplasmic antibodies (ANCA) in chronic graft–versus–host disease after allogeneic bone marrow transplantation. Martin SJ, et al. **Bone Marrow Transplant** 1997 Jul;20(1):45–8

Induction of graft–versus–host disease as immunotherapy of leukemia relapsing after allogeneic transplantation: single–center experience of 32 adult patients. Mehta J, et al. **Bone Marrow Transplant** 1997 Jul;20(2):129–35

Anti–mitosin antibodies in a patient with chronic graft–versus–host disease after allogeneic bone marrow transplantation. Muro Y, et al. **Bone Marrow Transplant** 1997 May;19(9):951–3

The important balance between cytokines derived from type 1 and type 2 helper T cells in the control of graft–versus–host disease. Tanaka J, et al. **Bone Marrow Transplant** 1997 Mar;19(6):571–6

Induction of graft versus leukemia effects by cell–mediated lymphokine–activated immunotherapy after syngeneic bone marrow transplantation in murine B cell leukemia. Weiss L, et al. **Cancer Immunol Immunother** 1996 Oct; 43(2):103–8

Graft–versus–host disease: implications from basic immunology for prophylaxis and treatment. Vogelsang GB. **Cancer Treat Res** 1997;77:87–97 (61 ref.)

Relationship between granulocyte activation, pulmonary granulocyte kinetics and alveolar permeability in extrapulmonary inflammatory disease. Ussov WY, et al. **Clin Sci (Colch)** 1996 Sep;91(3):329–35

Graft–versus–host effect after allogeneic hematopoietic stem cell transplantation: GVHD and GVL. Nash RA, et al. **Curr Opin Immunol** 1996 Oct;8(5):674–80 (64 ref.)

Risk of donor lymphocyte infusions following allogeneic bone marrow transplantation. van Bekkum DW, et al. **Exp Hematol** 1997 Jun;25(6):478–80

Fas–mediated cytotoxicity by intestinal intraepithelial lymphocytes during acute graft–versus–host disease in mice [see comments] Sakai T, et al. **Gastroenterology** 1997 Jul; 113(1):168–74. Comment in: Gastroenterology 1997 Jul;113(1):345–8.

Regulatory activity of endogenous and exogenous transforming growth factor beta in experimental intestinal immunopathology. Mowat AM, et al. **Growth Factors** 1996; 13(1–2):75–85

Lack of correlation of MLC reactivity with acute graft–versus–host disease and mortality in unrelated donor bone marrow transplantation. Segall M, et al. **Hum Immunol** 1996 Aug;49(1):49–55

Immunobiology and immunotherapeutic implications of syngeneic/autologous graft–versus–host disease. Hess AD, et al. **Immunol Rev** 1997 Jun;157:111–23 (102 ref.)

IgE allotypes in sera of mice with autoimmune diseases and in mice with graft–versus–host disease after transfusion or bone marrow transplantation. Miyajima H, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):152–5

Functional changes of intestinal intraepithelial lymphocytes during acute graft versus host disease: correlation with phenotype. Nussler NC, et al. **Int Immunol** 1996 Nov; 8(11):1767–77

Perforin/granzyme–dependent and independent mechanisms are both important for the development of graft–versus–host disease after murine bone marrow transplantation. Graubert TA, et al. **J Clin Invest** 1997 Aug 15;100(4):904–11

Donor lymphocyte infusions: the door is open [editorial; comment] Soiffer RJ. **J Clin Oncol** 1997 Feb;15(2):416–7 . Comment on: J Clin Oncol 1997 Feb;15(2):433–44.

Severe hemolysis caused by graft–derived anti–B production after lung transplantation. Taaning E, et al. **J Heart Lung Transplant** 1996 Aug;15(8):850–1

Immunodominant CD4+ T cell receptor Vbeta repertoires involved in graft–versus–host disease responses to minor histocompatibility antigens. Berger MA, et al. **J Immunol** 1997 Jul 1;159(1):77–85

Allospecific CD8+ Tc1 and Tc2 populations in graft–versus–leukemia effect and graft–versus–host disease. Fowler DH, et al. **J Immunol** 1996 Dec 1;157(11):4811–21

Inhibition of graft–versus–host disease. Use of a T cell–controlled suicide gene. Helene M, et al. **J Immunol** 1997 Jun 1;158(11):5079–82

TNF receptor p55 controls early acute graft–versus–host disease. Speiser DE, et al. **J Immunol** 1997 Jun 1; 158(11):5185–90

Intermediate TCR cells in mouse lung: their effector function to induce pneumonitis in mice with autoimmune–like graft–versus–host disease. Watanabe T, et al. **J Immunol** 1997 Jun 15;158(12):5805–14

IL–12 is a central mediator of acute graft–versus–host disease in mice. Williamson E, et al. **J Immunol** 1996 Jul 15; 157(2):689–99

Neutralizing IL–12 during induction of murine acute graft–versus–host disease polarizes the cytokine profile toward a Th2–type alloimmune response and confers long term protection from disease. Williamson E, et al. **J Immunol** 1997 Aug 1;159(3):1208–15

Mucosal cell–mediated immunological changes associated with experimental graft–versus–host disease. Thomas DW, et al. **J Oral Pathol Med** 1996 Apr;25(4):145–50

Graft versus host disease in rats made tolerant for organ allografts. Morrissey NJ, et al. **J Surg Res** 1997 May; 69(2):307–15

Graft–versus–leukemia effect and its clinical implications. Imamura M, et al. **Leuk Lymphoma** 1996 Nov; 23(5–6):477–92 (163 ref.)

The graft–versus–leukemia effect of post–transplant donor leukocyte infusion. Johnson BD, et al. **Leuk Lymphoma** 1996 Sep;23(1–2):1–9 (65 ref.)

HLA and graft–versus–host disease: a population–based study of HLA phenotypes of Jewish and Arabic bone marrow transplanted patients in Israel. Bishara A, et al. **Leuk Res** 1997 Feb;21(2):111–8

Autologous graft–versus–host disease [published erratum appears in Med Oncol 1996 Jun;13(2):132] Kennedy MJ, et al. **Med Oncol** 1995 Sep;12(3):149–56 (48 ref.)

Autoantibody formation after allogeneic bone marrow transplantation: correlation with the reconstitution of CD5+ B cells and occurrence of graft–versus–host disease. Chan EY, et al. **Pathology** 1997 May;29(2):184–8

Ultrastructural evidence of intestinal mucosal macrophage activation after bone marrow transplantation. Forbes GM, et al. **Pathology** 1996 Aug;28(3):251–4

Treatment of solid tumors should obligatorily be combined with the in vivo codepletion of tumor–protecting, CD8+/HLA–DR(+)–suppressor T cells by alloreactive donor T cells whose preprogrammed cell death allows a high GvL–effect before GvHD can be established. Results of animal experiments, including more than 6000 mice. Leskovar P, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R229–30

Graft–versus–host–disease–associated lymphoid hypoplasia and B cell dysfunction is dependent upon donor T cell–mediated Fas–ligand function, but not perforin function. Baker MB, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1366–71

Definition of HLA–DQ as a transplantation antigen. Petersdorf EW, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15358–63

The immunopathophysiology of acute graft–versus–host–disease. Ferrara JL, et al. **Stem Cells** 1996 Sep;14(5):473–89 (139 ref.)

Identification of HLA class II antigens as the targets of effector clones which may cause transfusion–associated graft–versus–host disease. Nishimura M, et al. **Transfus Med** 1997 Jun;7(2):89–94

Identification of the target molecule of cytotoxic T cells presumably responsible for development of transfusion–associated graft–versus–host disease [letter] Nishimura M, et al. **Transfusion** 1996 Sep;36(9):846–7

Role of natural killer cells in lethal graft–versus–host disease in rat models. Akioka K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):722–4

Anti–graft and anti–host antibody responses following small bowel transplantation in the rat. Bowles MJ, et al. **Transplant Proc** 1996 Oct;28(5):2486

Impact of natural killer cells in mediating graft–versus–host disease following small bowel transplantation in a rat model. Fändrich F, et al. **Transplant Proc** 1996 Oct; 28(5):2465–6

Modulation of graft–vs–host–related disease by host–specific natural killer cell activity following semiallogeneic small bowel transplantation in the rat. Fändrich F, et al. **Transplant Proc** 1996 Dec;28(6):3267–8

Cytokine profile in graft–versus–host disease after small bowel transplantation. Galvao FH, et al. **Transplant Proc** 1996 Oct;28(5):2455

Characterization of the V alpha/V beta autoreactive T–cell repertoire in syngeneic graft–vs–host disease. Hess A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):709–11

Specificity of effector mechanisms in syngeneic graft–vs–host disease: recognition of the MHC class II invariant chain peptide (CLIP). Hess A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):725–7

Antibody formation during the development of acute graft–versus–host disease after small–bowel transplantation. Johnsson C, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):699

Bone marrow engraftment and GVHD following bone marrow transplantation across a concordant xenogeneic barrier (mouse to rat). Li H, et al. **Transplant Proc** 1997 Jun;29(4):2190–1

Chimerism, graft–vs–host disease, rejection, and their association with reciprocal donor–host immune reactions after cell, organ, and composite tissue transplantation. Llull R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1203–4

Role of donor natural killer cells on lethal graft–versus–host disease following small bowel transplantation in the rat. Okamoto M, et al. **Transplant Proc** 1996 Oct;28(5):2467–8

Etretinate (Ro 10–9359) prevents autoimmune syndrome associated with chronic graft–versus–host disease in rats. Stošić–Grujičić S, et al. **Transplant Proc** 1996 Dec; 28(6):3258

15–deoxyspergualin downregulates MHC class II antigen expression and cell migration in models of graft–versus–host and host–versus–graft disease. Waaga AM, et al. **Transplant Proc** 1996 Oct;28(5):2515–7

Persistence of donor cells and incidence of graft–versus–host disease after simultaneous small bowel and bone marrow transplantation. Ye Q, et al. **Transplant Proc** 1996 Oct; 28(5):2453

Transplantation of polarized type 2 donor T cells reduces mortality caused by experimental graft–versus–host disease. Krenger W, et al. **Transplantation** 1996 Nov 15; 62(9):1278–85

Contributions of donor CD4 and CD8 cells to liver injury during murine graft–versus–host disease. Li J, et al. **Transplantation** 1996 Dec 15;62(11):1621–8

Recognition of major histoincompatibilities after transplantation with marrow from HLA closely matched donors. Rufer N, et al. **Transplantation** 1997 Jun 27; 63(12):1833–7

Acute graft–versus–host disease without costimulation via CD28. Speiser DE, et al. **Transplantation** 1997 Apr 15; 63(7):1042–4

Blockade of proliferation and tumor necrosis factor–alpha production occurring during mixed lymphocyte reaction by interferon–gamma–specific natural antibodies contained in intravenous immunoglobulins. Toungouz M, et al. **Transplantation** 1996 Nov 15;62(9):1292–6

Correlation between graft–versus–host induced immunosuppression and host natural killer cell activity in small bowel transplantation. Fändrich F, et al. **World J Surg** 1996 Oct;20(8):1041–51

[Modulation of alloreactivity using genetically modified T lymphocytes] Tiberghien P. **Transfus Clin Biol** 1997; 4(3):275–80 (32 ref.) (Eng. Abstr.) **(Fre)**

[Significance of interleukin 10 for acute graft versus host disease in children and adolescents after allogenic bone marrow transplantation] Körholz D, et al. **Klin Padiatr** 1996 Jul–Aug;208(4):141–4 (Eng. Abstr.) **(Ger)**

[Immunologic bases of graft vs. host disease: 1997] Uher F. **Orv Hetil** 1997 Aug 31;138(35):2163–8 (33 ref.) (Eng. Abstr.) **(Hun)**

[The roles of the cytokines in GVHD—the analyses and the prevention of murine GVHD] Hattori K, et al. **Rinsho Ketsueki** 1997 Jun;38(6):472–5 **(Jpn)**

[Hypereosinophilia after allogeneic bone marrow transplantation. A possible role of IL–5 overproduction by donor T–cells chronic GVHD] Masumoto A, et al. **Rinsho Ketsueki** 1997 Mar;38(3):234–6 (Eng. Abstr.) **(Jpn)**

[Assessment of secondary disease based on HLA expression in the plasma of an allogeneic bone marrow recipient] Zotnikov EA, et al. **Biull Eksp Biol Med** 1995 Dec; 120(12):596–8 **(Rus)**

METABOLISM

Expression of bcl–2 in lichen planus, acute graft–versus–host disease, and erythema multiforme. Boyd A, et al. **Am J Dermatopathol** 1997 Feb;19(1):46–51

PML is expressed in chronic graft–versus–host disease lesions. Aractingi S, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1125–8

Increased intestinal permeability in rats with graft versus host disease. Koltun WA, et al. **Gut** 1996 Aug;39(2):291–8

IL–12 p40 messenger RNA expression in target organs during acute graft–versus–host disease. Possible involvement of IFN–gamma. Kichian K, et al. **J Immunol** 1996 Oct 1; 157(7):2851–6

Decreased expression of LFA–1 on peripheral blood lymphocytes in graft versus host disease. Poritz LS, et al. **J Surg Res** 1997 May;69(2):316–20

Progressive accumulation of bacterial lipopolysaccharide in vivo during murine acute graft–versus–host disease. Price KS, et al. **Scand J Immunol** 1997 Mar;45(3):294–300

Quantitative analysis of T helper 1, T helper 2, and inflammatory cytokine expression in patients after allogeneic bone marrow transplantation: relationship with the occurrence of acute graft–versus–host disease. Carayol G, et al. **Transplantation** 1997 May 15;63(9):1307–13

Cytokine cascades in acute graft–versus–host disease. Krenger W, et al. **Transplantation** 1997 Aug 27;64(4):553–8 (69 ref.)

Endogenous interleukin 1 receptor antagonist during human bone marrow transplantation: increased levels during graft–versus–host disease, during infectious complications, and after immunoglobulin therapy. Schwaighofer H, et al. **Transplantation** 1997 Jan 15;63(1):52–6

MORTALITY

Lack of correlation of MLC reactivity with acute graft–versus–host disease and mortality in unrelated donor bone marrow transplantation. Segall M, et al. **Hum Immunol** 1996 Aug;49(1):49–55

Delaying transplantation after total body irradiation is a simple and effective way to reduce acute graft–versus–host disease mortality after major H2 incompatible transplantation. Xun CQ, et al. **Transplantation** 1997 Jul

27;64(2):297–302

PATHOLOGY

The role of adhesion and costimulation molecules in graft–versus–host disease. Schlegel PG. **Acta Haematol** 1997;97(1–2):105–17 (191 ref.)

Graft–vs–host disease in the central nervous system [letter; comment] Armstrong D, et al. **Am J Clin Pathol** 1997 Mar; 107(3):379. Comment on: Am J Clin Pathol 1977 Apr;89(4):543–6.

Immunohistochemical study of skin lesions in acute and chronic graft versus host disease following bone marrow transplantation. Favre A, et al. **Am J Surg Pathol** 1997 Jan;21(1):23–34

Value of skin biopsies in assessing prognosis and progression of acute graft–versus–host disease. Kohler S, et al. **Am J Surg Pathol** 1997 Sep;21(9):988–96

Gastric graft–versus–host disease: a blinded histologic study. Washington K, et al. **Am J Surg Pathol** 1997 Sep; 21(9):1037–46

Experimental induction and ultrastructural characterization of apoptosis in murine acute cutaneous graft–versus–host disease. Yoo YH, et al. **Arch Dermatol Res** 1997 Jun; 289(7):389–98

Experimental graft versus host disease in the (BN x LEW) F1 rat hybrid as a model for autoimmune disease. Study of early adenitis in lacrimal and salivary glands. Peszkowski MJ, et al. **Autoimmunity** 1996;24(2):101–11

Proliferation of macrophage–lineage cells in the bone marrow, severe thymic atrophy, and extramedullary hematopoiesis of possible donor origin in an autopsy case of post–transplantation graft–versus–host disease. Kazama T, et al. **Bone Marrow Transplant** 1996 Aug;18(2):437–41

Anti–host cytotoxic T cells of bone marrow transplant recipients with or without graft–versus–host disease are equally sensitive to cyclosporin A. Liem LM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):73–8

Endothelial cell markers in bone marrow transplant recipients with and without acute graft–versus–host disease. Salat C, et al. **Bone Marrow Transplant** 1997 May;19(9):909–14

IBMTR Severity Index for grading acute graft–versus–host disease: retrospective comparison with Glucksberg grade. Rowlings PA, et al. **Br J Haematol** 1997 Jun;97(4):855–64

Electron–microscopic study of sclerodermatous chronic graft–versus–host disease. Tabata H, et al. **Int J Dermatol** 1996 Dec;35(12):862–6

Sclerodermatous changes of chronic graft–versus–host–disease treated with puva. Woscoff A, et al. **Int J Dermatol** 1996 Sep;35(9):656–8 (26 ref.)

Langerhans' cells are depleted in chronic graft versus host disease. Aractingi S, et al. **J Clin Pathol** 1997 Apr; 50(4):305–9

Dermatomal lichenoid chronic graft–vs–host disease following varicella–zoster infection despite absence of viral genome. Baselga E, et al. **J Cutan Pathol** 1996 Dec; 23(6):576–81

Apoptosis is the predominant form of epithelial target cell injury in acute experimental graft–versus–host disease. Gilliam AC, et al. **J Invest Dermatol** 1996 Sep; 107(3):377–83

Oral mucosal lesions in experimental graft–versus–host disease: morphological and immunohistochemical characterization of infiltrating cells. Fujiwara K, et al. **J Oral Pathol Med** 1996 Jul;25(6):314–9

Electron microscopic studies of the early cellular events occurring in oral mucosa of rats affected by graft–versus–host disease (GVHD). Fujiwara K, et al. **J Oral Pathol Med** 1997 Feb;26(2):90–2

Histological changes of the liver in experimental graft–versus–host disease across minor histocompatibility barriers. VIII. Role of eosinophil infiltration. Nonomura A, et al. **Liver** 1996 Feb;16(1):42–7

Taming the sinister side of BMT: Dr. Jekyll and Mr. Hyde [news] Pardoll D. **Nat Med** 1997 Aug;3(8):833–4

Oral involvement in chronic graft–versus–host disease after allogeneic bone marrow transplantation. Nakamura S, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):556–63

Transfusion–associated graft–versus–host disease. Gresik MV. **Pediatr Pathol Lab Med** 1996 Jan–Feb;16(1):137–42

[Changes in the oral mucosa in chronic secondary disease] Akopian OG, et al. **Stomatologiia (Mosk)** 1996;75(2):15–20 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Parotid gland dysfunction in an animal model of chronic graft–vs–host disease. Nagler RM, et al. **Arch Otolaryngol Head Neck Surg** 1996 Oct; 122(10):1057–60

Graft–versus–host disease [see comments] Marcellus DC, et al. **Curr Opin Oncol** 1997 Mar;9(2):131–8 (41 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

Regulation of the functional activity of mast cells and fibroblasts by mononuclear cells in murine and human chronic graft–vs.–host disease. Levi–Schaffer F, et al. **Exp Hematol** 1997 Mar;25(3):238–45

A comparison of glandular involvement between chronic graft–versus–host disease and Sjögren's syndrome. Hiroki A, et al. **Int J Oral Maxillofac Surg** 1996 Aug;25(4):298–307

A major role for the Fas pathway in acute graft–versus–host disease. Via CS, et al. **J Immunol** 1996 Dec 15; 157(12):5387–93

Inflammatory reactions induced by pretransplant conditioning—an alternative target for modulation of acute GvHD and complications following allogeneic bone marrow transplantation? Holler E, et al. **Leuk Lymphoma** 1997 Apr;25(3–4):217–24 (35 ref.)

Mechanisms of the graft–versus–leukemia reaction. Barrett AJ. **Stem Cells** 1997;15(4):248–58 (106 ref.)

The immunopathophysiology of acute graft–versus–host–disease. Ferrara JL, et al. **Stem Cells** 1996 Sep;14(5):473–89 (139 ref.)

Involvement of endothelin in graft–versus–host disease after rat small bowel transplantation. Hiroyasu S, et al. **Transpl Int** 1997;10(2):121–4

Strong antileukemic effect of chronic graft–versus–host disease in allogeneic marrow transplant recipients having acute leukemia treated with methotrexate and cyclosporine. The Acute Leukemia Working Party of the European Group for Blood and Marrow Transplantation (EBMT). Ringdén O, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):733–4

CD4+ and CD8+ T cells each can utilize a perforin–dependent pathway to mediate lethal graft–versus–host disease in major histocompatibility complex–disparate recipients. Blazar BR, et al. **Transplantation** 1997 Aug 27;64(4):571–6

PREVENTION & CONTROL

Irradiated blood components [letter; comment] Oberman HA. **Am J Clin Pathol** 1997 Feb;107(2):251; discussion 253–4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6–11.

Factors influencing the haematological recovery after allogeneic bone marrow transplantation in leukaemia patients treated with methotrexate–containing GVHD prophylaxis: a single–centre experience. Hassan HT, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):589–99

Paradoxical effect of thalidomide prophylaxis on chronic graft–vs.–host disease. Chao NJ, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):86–92

The outcome of unrelated donor bone marrow transplantation in patients with hematologic malignancies using tacrolimus (FK506) and low dose methotrexate for graft–versus–host disease prophylaxis. Devine SM, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):25–33

CD6+ T cell depleted allogeneic bone marrow transplantation from genotypically HLA nonidentical related donors. Soiffer RJ, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):11–7

A controlled trial of long–term administration of intravenous immunoglobulin to prevent late infection and chronic graft–vs.–host disease after marrow transplantation: clinical outcome and effect on subsequent immune recovery. Sullivan KM, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):44–53

Administration of a CD31–derived peptide delays the onset and significantly increases survival from lethal graft–versus–host disease. Chen Y, et al. **Blood** 1997 Feb 15;89(4):1452–9

Prevention of graft–versus–host disease in mice using a suicide gene expressed in T lymphocytes. Cohen JL, et al. **Blood** 1997 Jun 15;89(12):4636–45

Cyclosporine or cyclosporine plus methylprednisolone for prophylaxis of graft–versus–host disease: a prospective, randomized trial. Deeg HJ, et al. **Blood** 1997 May 15; 89(10):3880–7

A metalloproteinase inhibitor prevents lethal acute graft–versus–host disease in mice. Hattori K, et al. **Blood** 1997 Jul 15;90(2):542–8

FK506 in combination with methotrexate for the prevention of graft–versus–host disease after marrow transplantation from matched unrelated donors. Nash RA, et al. **Blood** 1996 Nov 1;88(9):3634–41

Fludarabine monophosphate reduces the incidence and severity of graft–versus–host disease in a murine model of bone marrow transplantation [letter] Or R, et al. **Blood** 1997 Jul 1;90(1):471

Tacrolimus and minidose methotrexate for prevention of acute graft–versus–host disease after matched unrelated donor marrow transplantation. Przepiorka D, et al. **Blood** 1996 Dec 1;88(11):4383–9

CD6–depleted allogeneic bone marrow transplantation for acute leukemia in first complete remission. Soiffer RJ, et al. **Blood** 1997 Apr 15;89(8):3039–47

Granulocyte colony–stimulating factor reduces the capacity of blood mononuclear cells to induce graft–versus–host disease: impact on blood progenitor cell transplantation. Zeng D, et al. **Blood** 1997 Jul 1;90(1):453–63

Interferon–gamma–mediated prevention of graft–versus–host disease: development of immune competent and allo–tolerant T cells in chimeric mice. Brok HP, et al. **Bone Marrow Transplant** 1997 Mar;19(6):601–6

Murine IL–10 fails to reduce GVHD despite inhibition of alloreactivity in vitro. Emmanouilides CE, et al. **Bone Marrow Transplant** 1996 Aug;18(2):369–75

Campath–1G in vivo confers a low incidence of graft–versus–host disease associated with a high incidence of mixed chimaerism after bone marrow transplantation for severe aplastic anaemia using HLA–identical sibling donors. Hamblin M, et al. **Bone Marrow Transplant** 1996 May;17(5):819–24

Prevention and treatment of acute graft–versus–host disease: the old and the new. A report from the Eastern Cooperative Oncology Group (ECOG). Lazarus HM, et al. **Bone Marrow Transplant** 1997 Mar;19(6):577–600 (374 ref.)

Specific depletion of alloreactivity against haplotype mismatched related individuals by a recombinant immunotoxin: a new approach to graft–versus–host disease prophylaxis in haploidentical bone marrow transplantation. Mavroudis DA, et al. **Bone Marrow Transplant** 1996 May; 17(5):793–9

Successful treatment of steroid–resistant severe acute GVHD with 24–h continuous infusion of FK506. Ohashi Y, et al. **Bone Marrow Transplant** 1997 Mar;19(6):625–7

Eliminating graft–versus–host potential from T cell immunotherapeutic populations. Rencher SD, et al. **Bone Marrow Transplant** 1996 Aug;18(2):415–20

Graft–versus–leukemia effect in allogeneic marrow transplant recipients with acute leukemia is maintained using cyclosporin A combined with methotrexate as prophylaxis. Acute Leukemia Working Party of the European Group for Blood and Marrow Transplantation. Ringdén O, et al. **Bone Marrow Transplant** 1996 Nov;18(5):921–9

A survey of the prophylaxis and treatment of acute GVHD in Europe: a report of the European Group for Blood and Marrow, Transplantation (EBMT). Chronic Leukaemia Working Party of the EBMT. Ruutu T, et al. **Bone Marrow Transplant** 1997 Apr;19(8):759–64

Effect of sublethal total body irradiation on acute graft–versus–host disease and graft–versus–leukemia effect in SCID mice. Sakai R, et al. **Bone Marrow Transplant** 1997 Aug;20(3):183–9

Tacrolimus and methotrexate for the prophylaxis of acute graft–versus–host disease in allogeneic bone marrow transplantation in patients with hematologic malignancies. Uberti JP, et al. **Bone Marrow Transplant** 1997 Jun; 19(12):1233–8

Effect of deoxyspergualin on graft–versus–host disease and graft– versus–leukemia in mice. Weiss L, et al. **Bone Marrow Transplant** 1996 May;17(5):789–92

Lack of interaction between tacrolimus (FK506) and methotrexate in bone marrow transplant recipients. Wingard JR, et al. **Bone Marrow Transplant** 1997 Jul; 20(1):49–51

Tacrolimus (FK506) and methotrexate regimens to prevent graft–versus–host disease after unrelated dog leukocyte antigen (DLA) nonidentical marrow transplantation. Yu C, et al. **Bone Marrow Transplant** 1996 Apr;17(4):649–53

Glucocorticoids fail to enhance the effect of FK506 and methotrexate in prevention of graft–versus–host disease after DLA–nonidentical, unrelated marrow transplantation. Yu C, et al. **Bone Marrow Transplant** 1997 Jul;20(2):137–41

The graft–versus–leukemia effect. Barrett J, et al. **Curr Opin Oncol** 1996 Mar;8(2):89–95

Effect of CD80 and CD86 blockade and anti–interleukin–12 treatment on mouse acute graft–versus–host disease. Saito K, et al. **Eur J Immunol** 1996 Dec;26(12):3098–106

Recent advances in graft–versus–host disease (GVHD) prevention. Blazar BR, et al. **Immunol Rev** 1997 Jun; 157:79–109 (314 ref.)

Infusion of anti–B7.1 (CD80) and anti–B7.2 (CD86) monoclonal antibodies inhibits murine graft–versus–host disease lethality in part via direct effects on CD4+ and CD8+ T cells. Blazar BR, et al. **J Immunol** 1996 Oct 15; 157(8):3250–9

Blockade of CD40 ligand–CD40 interaction impairs CD4+ T cell–mediated alloreactivity by inhibiting mature donor T cell expansion and function after bone marrow transplantation. Blazar BR, et al. **J Immunol** 1997 Jan 1; 158(1):29–39

Differential effect of CTLA4Ig on murine graft–versus–host disease (GVHD) development: CTLA4Ig prevents both acute and chronic GVHD development but reverses only chronic GVHD. Via CS, et al. **J Immunol** 1996 Nov 1; 157(9):4258–67

Neutralizing IL–12 during induction of murine acute graft–versus–host disease polarizes the cytokine profile toward a Th2–type alloimmune response and confers long term protection from disease. Williamson E, et al. **J Immunol** 1997 Aug 1;159(3):1208–15

Anti–T cell receptor antibody treatment of mice with lupus–like graft versus host disease: suppression of glomerulonephritis without reduction in anti–DNA antibody levels. Maeda T, et al. **J Rheumatol** 1995 Dec; 22(12):2259–65

Development of a protocol for allogeneic marrow transplantation for severe systemic sclerosis: paradigm for autoimmune disease. Nash RA, et al. **J Rheumatol Suppl** 1997 May;48:72–8 (51 ref.)

Hematopoietic stem cell transplantation in nonmalignant diseases. Storb R. **J Rheumatol Suppl** 1997 May;48:30–5 (29 ref.)

Inflammatory reactions induced by pretransplant conditioning—an alternative target for modulation of acute GvHD and complications following allogeneic bone marrow transplantation? Holler E, et al. **Leuk Lymphoma** 1997 Apr;25(3–4):217–24 (35 ref.)

Immunomodulatory peptides with high binding affinity for class II MHC molecules for the prevention of graft–versus–host disease. Schlegel PG, et al. **Leuk Lymphoma** 1996 Sep;23(1–2):11–6 (47 ref.)

Prevention of graft coronary arteriosclerosis by antisense cdk2 kinase oligonucleotide [see comments] Suzuki J, et al. **Nat Med** 1997 Aug;3(8):900–3. Comment in: Nat Med

1997 Aug;3(8):834–5.
New donor leukocyte approaches may improve outcomes in relapsed CML post-transplant [news]
Oncology (Huntingt) 1996 Sep;10(9):1380
Factors influencing haematological recovery after allogeneic bone marrow transplantation in leukaemia patients treated with methotrexate-containing GVHD prophylaxis. A single-centre experience. Hassan HT, et al.
Support Care Cancer 1997 Jul;5(4):299–306
Guidelines on gamma irradiation of blood components for the prevention of transfusion-associated graft-versus-host disease. BCSH Blood Transfusion Task Force [see comments] **Transfus Med** 1996 Sep;6(3):261–71. Comment in: Transfus Med 1997 Jun;7(2):172–3.
Are guidelines for use of gamma irradiation for the prevention of transfusion-associated graft-versus-host disease adequate for newborns? [letter; comment] Ohto H, et al. **Transfus Med** 1997 Jun;7(2):172–3. Comment on: Transfus Med 1996 Sep;6(3):261–71.
The irradiation of blood and blood components to prevent graft-versus-host disease: technical issues and guidelines. Moroff G, et al. **Transfus Med Rev** 1997 Jan;11(1):15–26 (59 ref.)
Comparison of the content and subpopulations of CD3 and CD34 positive cells in bone marrow harvests and G-CSF-mobilized peripheral blood leukapheresis products from healthy adult donors. Hassan HT, et al.
Transpl Immunol 1996 Dec;4(4):319–23
The prevention of graft-versus-host disease by the serum of liver retransplanted rats. Shimizu Y, et al.
Transpl Immunol 1997 Mar;5(1):67–9
LF 08-0299 protects murine recipients of minor antigen disparate donor bone marrow from lethal graft-versus-host disease. Bruley-Rosset M, et al. **Transplant Proc** 1996 Dec; 28(6):3114–6
Potential GVHD inhibitory factors in the serum of liver re-transplanted rats. Edwards-Smith C, et al.
Transplant Proc 1997 Feb-Mar;29(1-2):853–5
Impact of different forms of recipient antigen and different routes of antigen administration in donor pretreatment for preventing graft-versus-host disease in rat small bowel transplantation. He G, et al. **Transplant Proc** 1996 Oct; 28(5):2469
A low incidence of grade II to IV acute GVHD, but high mortality from infection using HLA-A, -B, and -DR-identical unrelated donors and immunosuppression with ATG, cyclosporine, and methotrexate. Mattsson J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):735–6
CD34+ stem cell augmentation of allogeneic, elutriated marrow grafts improves engraftment but cyclosporine A is still required to reduce GVHD and morbidity. Noga SJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):728–32
Inhibition of acute graft-versus-host disease in (LEW.1W x LEW.1A)F1 rats using 9-(2-phosphonomethoxyethyl)-2,6-diaminopurine. Otová B, et al. **Transplant Proc** 1997 May;29(3):1736–7
Immunosuppressive power and limitations of FK 506 for prevention and treatment of graft-vs-host disease after small bowel transplantation. Platz KP, et al.
Transplant Proc 1996 Oct;28(5):2523–4
Analogues of leflunomide's primary metabolite, the malononitrilamides, prevent the development of graft-versus-host disease. Schorlemmer HU, et al.
Transplant Proc 1997 Feb-Mar;29(1-2):1298–301
Malononitrilamides prevent the development of murine systemic lupus erythematosus-like diseases in BDF1 hybrid mice and MRL/lpr autoimmune mice. Schorlemmer HU, et al. **Transplant Proc** 1996 Dec;28(6):3040–2
Malononitrilamides inhibit the development of various murine graft-vs-host diseases. Schorlemmer HU, et al.
Transplant Proc 1996 Dec;28(6):3043–7
Immunoregulation rather than immunosuppression for prevention and treatment of autoimmune disorders. Slavin S. **Transplant Proc** 1996 Dec;28(6):3021–2
Tolerance for graft-versus-host disease by intrathymic injection of recipient-type splenocytes into donor. Vaidya S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1073–5
Prevention of lethal graft-versus-host disease following allogeneic bone marrow transplantation in mice by short course administration of LF 08-0299. Annat J, et al.
Transplantation 1996 Sep 27;62(6):721–9
Prevention of graft-versus-host disease by intrathymic injection of recipient-type splenocytes into donor. Vaidya S, et al. **Transplantation** 1996 Nov 15;62(9):1366–8
[Limb allograft in rats: studies on optimal maintenance dose of FK506 and development of graft-versus-host-disease (GVHD)] Weigao C. **Fukuoka Igaku Zasshi** 1996 Sep; 87(9):197–205 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

CT demonstration of periorbital graft-versus-host disease. Cole JW, et al. **AJNR Am J Neuroradiol** 1997 Apr; 18(4):730–2

THERAPY

In vivo CAMPATH-1 monoclonal antibodies: a novel mode of therapy for acute graft-versus-host disease [letter] Varadi G, et al. **Am J Hematol** 1996 Jul;52(3):236–7
Bone marrow transplantation in chronic GvHD and autoimmune diseases. Andolina M, et al.
Bone Marrow Transplant 1996 Nov;18 Suppl 2:145–7
Effect of CD80 and CD86 blockade and anti-interleukin-12 treatment on mouse acute graft-versus-host disease. Saito K, et al. **Eur J Immunol** 1996 Dec;26(12):3098–106
Use of donor T-lymphocytes expressing herpes-simplex thymidine kinase in allogeneic bone marrow transplantation: a phase I–II study. Tiberghien P, et al.
Hum Gene Ther 1997 Mar 20;8(5):615–24
Recent advances in graft-versus-host disease (GVHD) prevention. Blazar BR, et al. **Immunol Rev** 1997 Jun; 157:79–109 (314 ref.)
Immunobiology and immunotherapeutic implications of syngeneic/autologous graft-versus-host disease. Hess AD, et al. **Immunol Rev** 1997 Jun;157:111–23 (102 ref.)
Extracorporeal photopheresis in the treatment of acute graft-versus-host disease. Richter HI, et al.
J Am Acad Dermatol 1997 May;36(5 Pt 1):787–9
HSV-TK gene transfer into donor lymphocytes for control of allogeneic graft-versus-leukemia [see comments] Bonini C, et al. **Science** 1997 Jun 13;276(5319):1719–24. Comment in: Science 1997 Jun 13;276(5319):1646.
New lead to safer marrow transplants [news; comment] Wickelgren I. **Science** 1997 Jun 13;276(5319):1646. Comment on: Science 1997 Jun 13;276(5319):1719–24.
Experimental animal model of graft-versus-host disease (GVHD) after small-bowel transplantation: characteristics of the model and application to developing treatment strategies. Galvao FH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):700

VIROLOGY

Absence of cytomegalovirus and Epstein-Barr virus expression in labial salivary glands of patients with chronic graft-versus-host disease. Mariette X, et al.
Bone Marrow Transplant 1996 Apr;17(4):607–10
Dermatomal lichenoid chronic graft-vs-host disease following varicella-zoster infection despite absence of viral genome. Baselga E, et al. **J Cutan Pathol** 1996 Dec; 23(6):576–81

GRAFT VS HOST REACTION

see related
GRAFT VS HOST DISEASE

Lichen planus-like histopathologic characteristics in the cutaneous graft-vs-host reaction. Prognostic significance independent of time course after allogeneic bone marrow transplantation [see comments] Horn TD, et al.
Arch Dermatol 1997 Aug;133(8):961–5. Comment in: Arch Dermatol 1997 Aug;133(8):1033–6.
Concentric fibrosis and cellular infiltration around bile ducts induced by graft-versus-host reaction in mice: a role of CD8+ cells. Inada S, et al. **Autoimmunity** 1995; 22(3):163–71
Engraftment of allogeneic hematopoietic progenitor cells with purine analog-containing chemotherapy: harnessing graft-versus-leukemia without myeloablative therapy. Giralt S, et al. **Blood** 1997 Jun 15;89(12):4531–6
Differences between graft-versus-leukemia and graft-versus-host reactivity. I. Interaction of donor immune T cells with tumor and/or host cells. Rocha M, et al. **Blood** 1997 Mar 15;89(6):2189–202
Effect of sublethal total body irradiation on acute graft-versus-host disease and graft-versus-leukemia effect in SCID mice. Sakai R, et al. **Bone Marrow Transplant** 1997 Aug;20(3):183–9
Effects of non-major histocompatibility antigens on acute graft-versus-host reaction after allogeneic bone marrow transplantation. Takayanagi T, et al.
Bone Marrow Transplant 1997 Aug;20(4):297–304
Allogeneic MHC-mismatched activated natural killer cells administered after bone marrow transplantation provide a strong graft-versus-leukaemia effect in mice. Zeis M, et al. **Br J Haematol** 1997 Mar;96(4):757–61
Graft-versus-leukemia effect of allogeneic bone marrow transplantation and donor mononuclear cell infusions. Porter DL, et al. **Cancer Treat Res** 1997;77:57–85 (127 ref.)
Graft-versus-host effect after allogeneic hematopoietic stem cell transplantation: GVHD and GVL. Nash RA, et al. **Curr Opin Immunol** 1996 Oct;8(5):674–80 (64 ref.)
Cytomegalovirus induces interstitial lung disease in allogeneic bone marrow transplant recipient rats independent of acute graft-versus-host response. Stals FS, et al. **Lab Invest** 1996 Feb;74(2):343–52
Demyelinating brachial neuropathy complicating syngeneic graft-versus-host disease. Yoshiyama Y, et al.
Neurology 1997 Jan;48(1):287–8
Eradication of minimal residual disease during graft-versus-host reaction induced by abrupt discontinuation of immunosuppression following bone marrow transplantation in a patient with Ph1-ALL. Kanamori H, et al. **Transpl Int** 1997;10(4):328–30
F1 hybrid resistance and self-tolerance in graft-versus-host mice. Baron C, et al. **Transplant Proc** 1996 Oct;28(5):2921–2
Graft-vs-host tolerance in mixed allogeneic chimerism. Kawai T, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1222–3
A novel inhibitor of nuclear factor-kappa B and activator protein-1 transcription factors in T cells suppresses host-versus-graft alloreactivity in vivo. Morikawa M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1269–70
Localized graft-versus-host response in the graft mesenteric lymph node after fully allogeneic rat small bowel transplantation. Webster GA, et al. **Transplant Proc** 1996 Oct;28(5):2449
[Immunological and hematological reconstruction of recipients in bone marrow transplantation from closely related donors] Zotikov EA, et al. **Klin Lab Diagn** 1997 Jan;(1):10–3 (Eng. Abstr.) **(Rus)**
[Phenotype of peripheral blood lymphocytes of healthy donors and patients with corneal allotransplantation under conditions of hyperbaric oxygenation] Krasnov MM, et al. **Vestn Oftalmol** 1996 Sep-Oct;112(5):14–6 (Eng. Abstr.) **(Rus)**
[The graft-vs-host reaction in military transfusion treatment] Shevchenko IuL, et al. **Voen Med Zh** 1997 Feb;318(2):32–5 (17 ref.) **(Rus)**

DRUG EFFECTS

Differential effectiveness of anti-CD8 treatment on ongoing graft-versus-host reactions in mice. Noort WA, et al.
Transpl Immunol 1996 Sep;4(3):198–202
Prevention of graft rejection and graft-versus-host reaction by a novel immunosuppressant, FTY720, in rat small bowel transplantation. Mitsusada M, et al. **Transpl Int** 1997; 10(5):343–9

GENETICS

Genetic control of host-vs-graft reactivity after small bowel transplantation with heterotopic and orthotopic placement. Brenning OH, et al. **Transplant Proc** 1997 May;29(3):1829

IMMUNOLOGY

Studies on the effect of organophosphorus pesticide phosalone on mouse immune system. Kowalczyk-Bronisz SH, et al. **Arch Vet Pol** 1994;34(3-4):221–30
Induction of graft-versus-leukemia effect in a patient with chronic lymphocytic leukemia. deMagalhaes-Silverman M, et al. **Bone Marrow Transplant** 1997 Jul;20(2):175–7
Immune escape from a graft-versus-leukemia effect may play a role in the relapse of myeloid leukemias following allogeneic bone marrow transplantation. Dermime S, et al.
Bone Marrow Transplant 1997 May;19(10):989–99
Preferential usage of T cell receptor (TCR) V beta by allogeneic T cells recognizing myeloid leukemia cells: implications for separating graft-versus-leukemia effect from graft-versus-host disease. Jiang YZ, et al.
Bone Marrow Transplant 1997 May;19(9):899–903
TCR-beta transgenic mice fail to mediate a GVHR due to defects of allorecognition and subsequent IL-2 generation. Rimm IJ, et al. **Bone Marrow Transplant** 1996 May; 17(5):835–42
Management of lymphoma recurrence after allogeneic transplantation: the relevance of graft-versus-lymphoma effect. van Besien KW, et al. **Bone Marrow Transplant** 1997 May;19(10):977–82
Monoclonal antibody against lymphocyte function-associated antigen 1 inhibits the formation of primary biliary cirrhosis-like lesions induced by murine graft-versus-host reaction. Kimura T, et al. **Hepatology** 1996 Oct;24(4):888–94
The autoimmunogenic chemicals HgCl2 and diphenylhydantoin stimulate IgG production to TNP-Ficoll and TNP-OVA, supporting and extending the graft-versus-host hypothesis for chemical induction of autoimmunity. Albers R, et al. **Immunology** 1996 Nov; 89(3):468–73
Effect of sciatic denervation on cell-mediated immunity. Kubera M, et al. **Int J Immunopharmacol** 1997 Jan; 19(1):25–9
CD28/B7 interactions are required for sustaining the graft-versus-leukemia effect of delayed post-bone marrow transplantation splenocyte infusion in murine recipients of myeloid or lymphoid leukemia cells. Blazar BR, et al.
J Immunol 1997 Oct 1;159(7):3460–73
Allospecific CD8+ Tc1 and Tc2 populations in graft-versus-leukemia effect and graft-versus-host disease. Fowler DH, et al. **J Immunol** 1996 Dec 1;157(11):4811–21
Mechanisms of the graft-versus-leukemia reaction. Barrett AJ. **Stem Cells** 1997;15(4):248–58 (106 ref.)
Migration of host and donor T cells in small bowel transplantation. Kurlberg G, et al. **Transpl Int** 1997; 10(1):45–50
Impact of RT1.C-encoded MHC antigens on host-versus-graft and graft versus-host reactions in a model of small bowel transplantation in the rat. Fändrich F, et al. **Transplant Proc** 1997 May;29(3):1730–1
An immunosuppressive effect of anti-p43 monoclonal antibody on human xenogeneic graft versus host response is mediated by CD8+ T cells. Moroz C, et al.
Transplant Proc 1996 Dec;28(6):3196–8
Stable mixed chimerism induced by total lymphoid irradiation or by total body irradiation is maintained by different mechanisms and leads to different graft versus leukemia or graft rejection reactions. Sefrioui H, et al.
Transplant Proc 1997 Aug;29(5):2352
Recipient-reactive antibodies occur during development of acute graft-versus-host reaction after small bowel transplantation. Johnsson C, et al. **Transplantation** 1996 Aug 15;62(3):343–6
["Graft versus leukemia" during mixed chimeric hematopoiesis] Seledtsova GV, et al.
Biull Eksp Biol Med 1997 May;123(5):562–5 **(Rus)**

RADIATION EFFECTS

Immunomodulation in transplantation with photopheresis. Barr ML. **Artif Organs** 1996 Aug;20(8):971–3 (12 ref.)

GRAFTING, BONE see **BONE TRANSPLANTATION**

GRAFTING, BONE MARROW see **BONE MARROW TRANSPLANTATION**

GRAFTING, BRAIN TISSUE see **BRAIN TISSUE TRANSPLANTATION**

GRAFTING, CORNEAL see **CORNEAL TRANSPLANTATION**

GRAFTING, FETAL TISSUE see **FETAL TISSUE TRANSPLANTATION**

GRAFTING, HEART see **HEART TRANSPLANTATION**

GRAFTING, HEART-LUNG see **HEART-LUNG TRANSPLANTATION**

GRAFTING, ISLETS OF LANGERHANS see **ISLETS OF LANGERHANS TRANSPLANTATION**

GRAFTING, KIDNEY see **KIDNEY TRANSPLANTATION**

GRAFTING, LIVER see **LIVER TRANSPLANTATION**

GRAFTING, LUNG see **LUNG TRANSPLANTATION**

GRAFTING, ORGAN see **ORGAN TRANSPLANTATION**

GRAFTING, PANCREAS see **PANCREAS TRANSPLANTATION**

GRAFTING, SKIN see **SKIN TRANSPLANTATION**

GRAFTING, TISSUE see **TISSUE TRANSPLANTATION**

GRAIN see **CEREALS**

GRAM-NEGATIVE AEROBIC BACTERIA

A possible immunosuppressant, cycloprodigiosin hydrochloride, obtained from Pseudoalteromonas denitrificans. Kawauchi K, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):543–7

Bacteremia due to glucose non-fermenting gram-negative bacilli in patients with hematological neoplasias and solid tumors. Martino R, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):610–5

Intravenous line infection due to Ochrobactrum anthropi (CDC Group Vd) in a normal host. Gill MV, et al. **Heart Lung** 1997 Jul–Aug;26(4):335–6

[Therapy of spontaneous bacterial peritonitis] Gräter H. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):98–101 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Structural studies of the exocellular polysaccharide from Sphingomonas paucimobilis strain I–886. Falk C, et al. **Carbohydr Res** 1996 May 14;285:69–79

Solution and gel rheology of a new polysaccharide excreted by the bacterium Alteromonas sp. strain 1644. Bozzi L, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):83–91

Characterization and solution properties of a new exopolysaccharide excreted by the bacterium Alteromonas sp. strain 1644. Bozzi L, et al. **Int J Biol Macromol** 1996 Feb;18(1–2):9–17

[Effect of nutritional conditions on the viscosity and emulsifying capacity of V2–7 biopolymer from Volcaniella eurihalina] Martínez-Checa F, et al. **Microbiologia** 1996 Mar;12(1):55–60 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

Taxonomic study of aromatic-degrading bacteria from deep-terrestrial-subsurface sediments and description of Sphingomonas aromaticivorans sp. nov., Sphingomonas subterranea sp. nov., and Sphingomonas stygia sp. nov. Balkwill DL, et al. **Int J Syst Bacteriol** 1997 Jan; 47(1):191–201

Pseudoalteromonas antarctica sp. nov., isolated from an Antarctic coastal environment. Bozal N, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):345–51

Use of 16S rRNA analysis to investigate phylogeny of methylotrophic bacteria. Bratina BJ, et al. **Int J Syst Bacteriol** 1992 Oct;42(4):645–8

Classification of "Pseudomonas azotocolligans" Anderson 1955, 132, in the genus Sphingomonas as Sphingomonas trueperi sp. nov. Kämpfer P, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):577–83

Reclassification of a polycyclic aromatic hydrocarbon-metabolizing bacterium, Beijerinckia sp. strain B1, as Sphingomonas yanoikuyae by fatty acid analysis, protein pattern analysis, DNA–DNA hybridization, and 16S ribosomal DNA sequencing. Khan AA, et al. **Int J Syst Bacteriol** 1996 Apr;46(2):466–9

Transfer of Blastobacter natatorius (Sly 1985) to the genus Blastomonas gen. nov. as Blastomonas natatoria comb. nov. Sly LI, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):566–8

Phylogenetic position of Riemerella anatipestifer based on 16S rRNA gene sequences. Subramaniam S, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):562–5

The phylogenetic position and ultrastructure of the uncultured bacterium Achromatium oxaliferum. Head IM, et al. **Microbiology** 1996 Sep;142 (Pt 9):2341–54

DRUG EFFECTS

Problem of antimicrobial resistance of fecal aerobic gram-negative bacilli in the elderly. Leistevuo T, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2399–403

Antimicrobial resistance of fecal aerobic gram-negative bacilli in different age groups in a community. Leistevuo T, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1931–4

Antimicrobial resistance rates among aerobic gram-negative bacilli recovered from patients in intensive care units: evaluation of a national postmarketing surveillance program. Itokazu GS, et al. **Clin Infect Dis** 1996 Oct; 23(4):779–84

Loss of antimicrobial susceptibility in aerobic gram-negative bacilli repeatedly isolated from patients in intensive-care units. Manian FA, et al. **Infect Control Hosp Epidemiol** 1996 Apr;17(4):222–6

Effect of modified atmosphere packaging on the TVB/TMA-producing microflora of cod fillets. Debevere J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):221–9

[Antibiotic sensitivity of aerobic gram-negative bacilli isolated from severe infections in 1992: results of a French multicenter study. Groupe d'Etude d'Infections à bacilles à Gram Négatif (GEIGN)] Koeck JL, et al. **Presse Med** 1996 Oct 12;25(30):1363–6 (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Enzyme diversity and mosaic gene organization in denitrification. Zumft WG, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1–2):43–58 (139 ref.)

Purification and characterization of a haloalkane dehalogenase of a new substrate class from a gamma-hexachlorocyclohexane-degrading bacterium, Sphingomonas paucimobilis UT26. Nagata Y, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3707–10

Competition between beta-ketothiolase and citrate synthase during poly(beta-hydroxybutyrate) synthesis in Methylobacterium rhodesianum. Mothes G, et al. **Arch Microbiol** 1996 Dec;166(6):405–10

Sequence and functional analysis of an Escherichia coli DNA fragment able to complement pqqE and pqqF mutants from Methylobacterium organophilum. Turlin E, et al. **Biochimie** 1996;78(10):823–31

Molecular characterization of Fdx1, a putidaredoxin-type [2Fe-2S] ferredoxin able to transfer electrons to the dioxin dioxygenase of Sphingomonas sp. RW1. Armengaud J, et al. **Eur J Biochem** 1997 Aug 1;247(3):833–42

Enzymes from cold-adapted microorganisms. The class C beta-lactamase from the antarctic psychrophile Psychrobacter immobilis A5. Feller G, et al. **Eur J Biochem** 1997 Feb 15;244(1):186–91

Molecular characterisation of formamidase from Methylophilus methylotrophus. Wyborn NR, et al. **Eur J Biochem** 1996 Sep 1;240(2):314–22

Evidence for the role of 2-hydroxychromene-2-carboxylate isomerase in the degradation of anthracene by Sphingomonas yanoikuyae B1. Kim E, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):479–84

Characterization of three protein components required for functional reconstitution of the epoxide carboxylase multienzyme complex from Xanthobacter strain Py2. Allen JR, et al. **J Bacteriol** 1997 May;179(10):3110–5

Purification and molecular characterization of the electron transfer protein of methanesulfonic acid monooxygenase. Higgins TP, et al. **J Bacteriol** 1997 Mar;179(6):1974–9

Cloning and characterization of the genes encoding nitrilotriacetate monooxygenase of Chelatobacter heintzii ATCC 29600. Knobel HR, et al. **J Bacteriol** 1996 Nov; 178(21):6123–32

A novel type of pyridine nucleotide-disulfide oxidoreductase is essential for NAD+- and NADPH-dependent degradation of epoxyalkanes by Xanthobacter strain Py2. Swaving J, et al. **J Bacteriol** 1996 Nov;178(22):6644–6

Comparison of the gene expression of aspartate beta-D-semialdehyde dehydrogenase at elevated hydrostatic pressure in deep-sea bacteria. Kato C, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):717–23

Structural and functional aspects of chloride binding to Alteromonas haloplanctis alpha-amylase. Feller G, et al. **J Biol Chem** 1996 Sep 27;271(39):23836–41

Molecular cloning and expression of fatty acid alpha-hydroxylase from Sphingomonas paucimobilis. Matsunaga I, et al. **J Biol Chem** 1997 Sep 19; 272(38):23592–6

Alkene monooxygenase from Xanthobacter strain Py2. Purification and characterization of a four-component system central to the bacterial metabolism of aliphatic alkenes. Small FJ, et al. **J Biol Chem** 1997 Oct 3; 272(40):24913–20

Mn-superoxide dismutase from the halophilic halotolerant bacterium Ba1—isolation and active site spectroscopic studies. Yorkovsky Y, et al. **J Inorg Biochem** 1997 Jan; 65(1):35–43

Analysis of a new dimeric extradiol dioxygenase from a naphthalenesulfonate-degrading sphingomonad. Heiss G, et al. **Microbiology** 1997 May;143 (Pt 5):1691–9

Xanthobacter flavus employs a single triosephosphate isomerase for heterotrophic and autotrophic metabolism. Meijer WG, et al. **Microbiology** 1997 Jun;143 (Pt 6):1925–31

Upstream sequence of the parahydroxyphenyl-pyruvate dioxygenase (melA) coding region leading to enhanced expression in Shewanella colwelliana. Eylem CL, et al. **Microbios** 1996;86(348):163–74

Non-enzymatic and enzymatic hydrolysis of alkyl halides: a haloalkane dehalogenation enzyme evolved to stabilize the gas-phase transition state of an SN2 displacement reaction. Lightstone FC, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8417–20

Purification and characterization of acetone carboxylase from Xanthobacter strain Py2. Sluis MK, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8456–61

Knowledge-based modeling of a bacterial dichloromethane dehalogenase. Marsh A, et al. **Proteins** 1997 Jun; 28(2):217–26

An Fe2IVO2 diamond core structure for the key intermediate Q of methane monooxygenase. Shu L, et al. **Science** 1997 Jan 24;275(5299):515–8

GENETICS

Glutathione S-transferase-encoding gene as a potential probe for environmental bacterial isolates capable of degrading polycyclic aromatic hydrocarbons. Lloyd-Jones G, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3286–90

Use of a promoterless lacZ gene insertion to investigate chitinase gene expression in the marine bacterium Pseudoalteromonas sp. strain S9. Techkarnjanaruk S, et al. **Appl Environ Microbiol** 1997 Aug;63(8):2989–96

Erratum to "The methanol oxidation genes mxaFJGIR (S) ACKLD in Methylobacterium extorquens" [FEMS Microbiol. Lett. 146 (1997) 31–38] Amaratunga K, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):175–7

The methanol oxidation genes mxaFJGIR (S) ACKLD in Methylobacterium extorquens [published erratum appears in FEMS Microbiol Lett 1997 May 1;150(1):175–7] Amaratunga K, et al. **FEMS Microbiol Lett** 1997 Jan 1; 146(1):31–8

The marine bacterium Pseudoalteromonas haloplanktis has a complex genome structure composed of two separate genetic units. Lanoil BD, et al. **Genome Res** 1996 Dec; 6(12):1160–9

Phylogenetic position of Riemerella anatipestifer based on 16S rRNA gene sequences. Subramaniam S, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):562–5

Evidence for two possible glnB-type genes in Herbaspirillum seropedicae. Benelli EM, et al. **J Bacteriol** 1997 Jul; 179(14):4623–6

Genetic characterization and expression in heterologous hosts of the 3-(3-hydroxyphenyl)propionate catabolic pathway of Escherichia coli K-12. Ferrández A, et al. **J Bacteriol** 1997 Apr;179(8):2573–81

Structure of the puf operon of the obligately aerobic, bacteriochlorophyll alpha-containing bacterium Roseobacter denitrificans OCh114 and its expression in a Rhodobacter capsulatus puf puc deletion mutant. Kortlüke C, et al. **J Bacteriol** 1997 Sep;179(17):5247–58

The tfdR gene product can successfully take over the role of the insertion element-inactivated TfdT protein as a transcriptional activator of the tfdCDEF gene cluster, which encodes chlorocatechol degradation in Ralstonia eutropha JMP134(pJP4). Leveau JH, et al. **J Bacteriol** 1996 Dec;178(23):6824–32

Regulation of CO2 assimilation in Ralstonia eutropha: premature transcription termination within the cbb operon. Schäferjohann J, et al. **J Bacteriol** 1996 Dec;178(23):6714–9

Cloning, sequencing, and analysis of a gene cluster from Chelatobacter heintzii ATCC 29600 encoding nitrilotriacetate monooxygenase and NADH:flavin mononucleotide oxidoreductase. Xu Y, et al. **J Bacteriol** 1997 Feb;179(4):1112–6

Comparison of the gene expression of aspartate beta-D-semialdehyde dehydrogenase at elevated hydrostatic pressure in deep-sea bacteria. Kato C, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):717–23

Molecular and mutational analysis of a DNA region separating two methylotrophy gene clusters in Methylobacterium extorquens AM1. Chistoserdova L, et al. **Microbiology** 1997 May;143 (Pt 5):1729–36

Molecular analysis of mxbD and mxbM, a putative sensor-regulator pair required for oxidation of methanol in Methylobacterium extorquens AM1. Springer AL, et al. **Microbiology** 1997 May;143 (Pt 5):1737–44

Sequence analysis of pqq genes required for biosynthesis of pyrroloquinoline quinone in Methylobacterium extorquens AM1 and the purification of a biosynthetic intermediate. Toyama H, et al. **Microbiology** 1997 Feb;143 (Pt 2):595–602

PCP degradation is mediated by closely related strains of the genus Sphingomonas. Ederer MM, et al. **Mol Ecol** 1997 Jan;6(1):39–49

Transgenic tobacco expressing Vitreoscilla hemoglobin exhibits enhanced growth and altered metabolite

production [see comments] Holmberg N, et al. **Nat Biotechnol** 1997 Mar;15(3):244–7. Comment in: Nat Biotechnol 1997 Mar;15(3):222–3.

Cloning and sequence analysis of a novel insertion element from plasmids harbored by the carbofuran–degrading bacterium, Sphingomonas sp. CFO6. Feng X, et al. **Plasmid** 1997;37(3):169–79

Construction of novel shuttle vectors for use between moderately halophilic bacteria and Escherichia coli. Mellado E, et al. **Plasmid** 1995 Nov;34(3):157–64

Evidence that eukaryotic triosephosphate isomerase is of alpha–proteobacterial origin. Keeling PJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1270–5

GROWTH & DEVELOPMENT

Research note: in vitro inhibition of Listeria monocytogenes growth by veillonellae cultures grown on tartrate media. Hinton A Jr, et al. **J Appl Microbiol** 1997 Jun;82(6):780–2

Improved large scale culture of Methylophilus methylotrophus for 13C/15N labeling and random fractional deuteration of ribonucleotides. Batey RT, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4836–7

IMMUNOLOGY

Structure of the capsular polysaccharide from Alteromonas nigrifaciens IAM 13010T containing 2–acetamido–2,6–dideoxy–L–talose and 3–deoxy–D–manno–octulosonic acid. Gorshkova RP, et al. **Carbohydr Res** 1997 Mar 26;299(1–2):69–76

ISOLATION & PURIFICATION

Endogenous Ochrobactrum anthropi endophthalmitis. Berman AJ, et al. **Am J Ophthalmol** 1997 Apr;123(4):560–2

Identification of a functionally important population in phenol–digesting activated sludge with antisera raised against isolated bacterial strains. Watanabe K, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3901–4

Microbial contamination of antiseptic–soaked cotton balls. Oie S, et al. **Biol Pharm Bull** 1997 Jun;20(6):667–9

Methylobacterium bacteremia after infusion of contaminated autologous bone marrow. Brown MA, et al. **Clin Infect Dis** 1996 Nov;23(5):1191–2

Alteromonas infernus sp. nov., a new polysaccharide–producing bacterium isolated from a deep–sea hydrothermal vent. Raguénès GH, et al. **J Appl Microbiol** 1997 Apr;82(4):422–30

Oral endotoxin in healthy adults [letter] Samaranayake LP. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):113–4

An analysis of lymph node DNA for possible bacterial agents of cat–scratch disease. Jevon GP, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):3–9

[Bacteria isolated from surgical infections and their susceptibilities to antimicrobial agents. Special references to bacteria isolated between July 1995 and June 1996] Shinagawa N, et al. **Jpn J Antibiot** 1997 Feb;50(2):143–77 (Eng. Abstr.) **(Jpn)**

METABOLISM

Oxidative metabolism of inorganic sulfur compounds by bacteria. Kelly DP, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1–2):95–107 (51 ref.)

Enzymatic pathway for the bacterial degradation of the cyanobacterial cyclic peptide toxin microcystin LR. Bourne DG, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4086–94

Reduction of azo dyes by redox mediators originating in the naphthalenesulfonic acid degradation pathway of Sphingomonas sp. strain BN6. Keck A, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3684–90

Glutathione S–transferase–encoding gene as a potential probe for environmental bacterial isolates capable of degrading polycyclic aromatic hydrocarbons. Lloyd–Jones G, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3286–90

In vivo levels of chlorinated hydroquinones in a pentachlorophenol–degrading bacterium. McCarthy DL, et al. **Appl Environ Microbiol** 1997 May;63(5):1883–8

Purification and characterization of a haloalkane dehalogenase of a new substrate class from a gamma–hexachlorocyclohexane–degrading bacterium, Sphingomonas paucimobilis UT26. Nagata Y, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3707–10

Competition between beta–ketothiolase and citrate synthase during poly(beta–hydroxybutyrate) synthesis in Methylobacterium rhodesianum. Mothes G, et al. **Arch Microbiol** 1996 Dec;166(6):405–10

Enzymology of the degradation of (di)chlorobenzenes by Xanthobacter flavus 14p1. Sommer C, et al. **Arch Microbiol** 1997 Jun;167(6):384–91

Elimination of mercury and organomercurials by nitrogen–fixing bacteria. Ghosh S, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):993–8

The methanol oxidation genes mxaFJGIR (S) ACKLD in Methylobacterium extorquens [published erratum appears in FEMS Microbiol Lett 1997 May 1;150(1):175–7] Amaratunga K, et al. **FEMS Microbiol Lett** 1997 Jan 1; 146(1):31–8

Degradation of benzene 1,3–disulfonate by a mixed bacterial culture. Contzen M, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):45–50

Microbulbifer hydrolyticus gen. nov., sp. nov., and Marinobacterium georgiense gen. nov., sp. nov., two marine bacteria from a lignin–rich pulp mill waste enrichment community. González JM, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):369–76

Xanthobacter tagetidis sp. nov., an organism associated with Tagetes species and able to grow on substituted thiophenes. Padden AN, et al. **Int J Syst Bacteriol** 1997 Apr; 47(2):394–401

Anaerobic activation of toluene and o–xylene by addition to fumarate in denitrifying strain T. Beller HR, et al. **J Bacteriol** 1997 Feb;179(3):670–6

Osmoprotectants in Halomonas elongata: high–affinity betaine transport system and choline–betaine pathway. Cánovas D, et al. **J Bacteriol** 1996 Dec;178(24):7221–6

Osmotically induced response in representatives of halophilic prokaryotes: the bacterium Halomonas elongata and the archaeon Haloferax volcanii. Mojica FJ, et al. **J Bacteriol** 1997 Sep;179(17):5471–81

Xanthobacter flavus employs a single triosephosphate isomerase for heterotrophic and autotrophic metabolism. Meijer WG, et al. **Microbiology** 1997 Jun;143 (Pt 6):1925–31

PCP degradation is mediated by closely related strains of the genus Sphingomonas. Ederer MM, et al. **Mol Ecol** 1997 Jan;6(1):39–49

Unusual structure of the oxygen–binding site in the dimeric bacterial hemoglobin from Vitreoscilla sp. Tarricone C, et al. **Structure** 1997 Apr 15;5(4):497–507

PATHOGENICITY

An analysis of lymph node DNA for possible bacterial agents of cat–scratch disease. Jevon GP, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):3–9

PHYSIOLOGY

Osmoadaptation by rhizosphere bacteria. Miller KJ, et al. **Annu Rev Microbiol** 1996;50:101–36 (167 ref.)

Metal selectivity of in situ microcolonies in biofilms of the Elbe river. Lünsdorf H, et al. **J Bacteriol** 1997 Jan; 179(1):31–40

GRAM-NEGATIVE ANAEROBIC BACTERIA

Lemierre's syndrome. Lee BK, et al. **South Med J** 1997 Jun; 90(6):640–3

CHEMISTRY

Isolation and characterization of a bacteriocin (Butyrivibriocin AR10) from the ruminal anaerobe Butyrivibrio fibrisolvens AR10: evidence in support of the widespread occurrence of bacteriocin–like activity among ruminal isolates of B. fibrisolvens. Kalmokoff ML, et al. **Appl Environ Microbiol** 1997 Feb;63(2):394–402

Structural features correlated with the extreme thermostability of 1[4Fe–4S] ferredoxin from the hyperthermophilic bacterium Thermotoga maritima. Macedo–Ribeiro S, et al. **Biol Chem** 1997 Mar–Apr; 378(3–4):331–6

Unusual fatty acid compositions of the hyperthermophilic archaeon Pyrococcus furiosus and the bacterium Thermotoga maritima. Carballeira NM, et al. **J Bacteriol** 1997 Apr;179(8):2766–8

New compatible solutes related to Di–myo–inositol–phosphate in members of the order Thermotogales. Martins LO, et al. **J Bacteriol** 1996 Oct; 178(19):5644–51

Small structural changes account for the high thermostability of 1[4Fe–4S] ferredoxin from the hyperthermophilic bacterium Thermotoga maritima. Macedo–Ribeiro S, et al. **Structure** 1996 Nov 15;4(11):1291–301

CLASSIFICATION

Haloanaerobium congolense sp. nov., an anaerobic, moderately halophilic, thiosulfate– and sulfur–reducing bacterium from an African oil field. Ravot G, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):81–8

Schwartzia succinivorans gen. nov., sp. nov., another ruminal bacterium utilizing succinate as the sole energy source. van Gylswyk NO, et al. **Int J Syst Bacteriol** 1997 Jan; 47(1):155–9

Identification and classification of Oxalobacter formigenes strains by using oligonucleotide probes and primers. Sidhu H, et al. **J Clin Microbiol** 1997 Feb;35(2):350–3

DRUG EFFECTS

Time–kill study of the activity of trovafloxacin compared with ciprofloxacin, sparfloxacin, metronidazole, cefoxitin, piperacillin and piperacillin/tazobactam against six anaerobes. Spangler SK, et al. **J Antimicrob Chemother** 1997 Jun;39 Suppl B:23–7

ENZYMOLOGY

Catalytic properties of the cellulose–binding endoglucanase F from Fibrobacter succinogenes S85. Malburg SR, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2449–53

Studies on tetrachloroethene respiration in Dehalospirillum multivorans. Miller E, et al. **Arch Microbiol** 1996 Dec; 166(6):379–87

Crystal structure at 2.0 A resolution of phosphoribosyl anthranilate isomerase from the hyperthermophile Thermotoga maritima: possible determinants of protein stability. Hennig M, et al. **Biochemistry** 1997 May 20; 36(20):6009–16

Molecular basis for the coupling ion selectivity of F1F0 ATP synthases: probing the liganding groups for Na+ and Li+ in the c subunit of the ATP synthase from Propionigenium modestum. Kaim G, et al. **Biochemistry** 1997 Jul 29; 36(30):9185–94

Purification and some properties of Thermotoga neapolitana thermostable xylanase B expressed in E. coli cells. Velikodvorskaya TV, et al. **Biochemistry (Mosc)** 1997 Jan; 62(1):66–70

Crystallographic analysis of phosphoglycerate kinase from the hyperthermophilic bacterium Thermotoga maritima. Auerbach G, et al. **Biol Chem** 1997 Mar–Apr; 378(3–4):327–9

Co–expression of a Phanerochaete chrysosporium cellobiohydrolase gene and a Butyrivibrio fibrisolvens endo–beta–1,4–glucanase gene in Saccharomyces cerevisiae. van Rensburg P, et al. **Curr Genet** 1996 Aug; 30(3):246–50

Sequence of a gene cluster from Malonomonas rubra encoding components of the malonate decarboxylase Na+ pump and evidence for their function. Berg M, et al. **Eur J Biochem** 1997 Apr 1;245(1):103–15

Tetrameric and octameric lactate dehydrogenase from the hyperthermophilic bacterium Thermotoga maritima. Structure and stability of the two active forms. Dams T, et al. **Eur J Biochem** 1996 Aug 15;240(1):274–9

Gene sequence analysis and properties of EGC, a family E (9) endoglucanase from Fibrobacter succinogenes BL2. Bera C, et al. **FEMS Microbiol Lett** 1996 Feb 1; 136(1):79–84

Cloning of a gene encoding cinnamoyl ester hydrolase from the ruminal bacterium Butyrivibrio fibrisolvens E14 by a novel method. Dalrymple BP, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2–3):115–20

Characterization of proteolytic activities of rumen bacterial isolates from forage–fed cattle. Attwood GT, et al. **J Appl Bacteriol** 1996 Nov;81(5):545–52

DNA sequencing and expression of the formyl coenzyme A transferase gene, frc, from Oxalobacter formigenes. Sidhu H, et al. **J Bacteriol** 1997 May;179(10):3378–81

Crystal structure of glutamate dehydrogenase from the hyperthermophilic eubacterium Thermotoga maritima at 3.0 A resolution. Knapp S, et al. **J Mol Biol** 1997 Apr 11;267(4):916–32

Phosphoribosyl anthranilate isomerase from Thermotoga maritima is an extremely stable and active homodimer. Sterner R, et al. **Protein Sci** 1996 Oct;5(10):2000–8

Xylanase XynA from the hyperthermophilic bacterium Thermotoga maritima: structure and stability of the recombinant enzyme and its isolated cellulose–binding domain. Wassenberg D, et al. **Protein Sci** 1997 Aug; 6(8):1718–26

GENETICS

Detection of stratified microbial populations related to Chlorobium and Fibrobacter species in the Atlantic and Pacific oceans. Gordon DA, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1171–7

Sequence analysis and characterization of pOM1, a small cryptic plasmid from Butyrivibrio fibrisolvens, and its use in construction of a new family of cloning vectors for Butyrivibrios. Hefford MA, et al. **Appl Environ Microbiol** 1997 May;63(5):1701–11

High–frequency transfer of a naturally occurring chromosomal tetracycline resistance element in the ruminal anaerobe Butyrivibrio fibrisolvens. Scott KP, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3405–11

Gene sequence analysis and properties of EGC, a family E (9) endoglucanase from Fibrobacter succinogenes BL2. Bera C, et al. **FEMS Microbiol Lett** 1996 Feb 1; 136(1):79–84

A gyrB–like gene from the hyperthermophilic bacterion Thermotoga maritima. Guipaud O, et al. **Gene** 1996 Sep 26;174(1):121–8

Physical and genetic map of the chromosome of Dichelobacter nodosus strain A198. La Fontaine S, et al. **Gene** 1997 Jan 15;184(2):291–8

Characterization of the genes and proteins of a two–component system from the hyperthermophilic bacterium Thermotoga maritima. Lee PJ, et al. **J Bacteriol** 1996 Oct;178(19):5579–85

Properties and gene structure of the Thermotoga maritima alpha–amylase AmyA, a putative lipoprotein of a hyperthermophilic bacterium. Liebl W, et al. **J Bacteriol** 1997 Feb;179(3):941–8

DNA sequencing and expression of the formyl coenzyme A transferase gene, frc, from Oxalobacter formigenes. Sidhu H, et al. **J Bacteriol** 1997 May;179(10):3378–81

Analysis of a Thermotoga maritima DNA fragment encoding two similar thermostable cellulases, CelA and CelB, and characterization of the recombinant enzymes. Liebl W, et al. **Microbiology** 1996 Sep;142 (Pt 9):2533–42

Manipulation of the tuf gene provides clues to the localization of sequence element(s) involved in the thermal stability of Thermotoga maritima elongation factor Tu. Sanangelantoni AM, et al. **Microbiology** 1996 Sep;142 (Pt

9):2525-32
Highly thermostable endo-1,3-beta-glucanase (laminarinase) LamA from Thermotoga neapolitana: nucleotide sequence of the gene and characterization of the recombinant gene product. Zverlov VV, et al. **Microbiology** 1997 May;143 (Pt 5):1701-8
Isolation and analysis of a gene encoding alpha-glucuronidase, an enzyme with a novel primary structure involved in the breakdown of xylan. Ruile P, et al. **Mol Microbiol** 1997 Jan;23(2):267-79

GROWTH & DEVELOPMENT

The effect of growth and starvation on the lysis of the ruminal cellulolytic bacterium Fibrobacter succinogenes. Wells JE, et al. **Appl Environ Microbiol** 1996 Apr; 62(4):1342-6

IMMUNOLOGY

Manipulation of the helper T cell response to influence antigenic competition occurring with a multivalent vaccine. Hunt JD, et al. **Immunol Cell Biol** 1996 Feb;74(1):81-9

ISOLATION & PURIFICATION

Identity and interactions of rumen microbes associated with dietary sulfate-induced polioencephalomalacia in cattle. Cummings BA, et al. **Am J Vet Res** 1995 Oct;56(10):1384-9
Group-specific 16S rRNA hybridization probes for determinative and community structure studies of Butyrivibrio fibrisolvens in the rumen. Forster RJ, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1256-60
Detection of stratified microbial populations related to Chlorobium and Fibrobacter species in the Atlantic and Pacific oceans. Gordon DA, et al. **Appl Environ Microbiol** 1996 Apr;62(4):1171-7
Ocular infection caused by three unusual marine organisms. Butt AA, et al. **Clin Infect Dis** 1997 Apr;24(4):740
Thermothrix azorensis sp. nov., an obligately chemolithoautotrophic, sulfur-oxidizing, thermophilic bacterium. Odintsova EV, et al. **Int J Syst Bacteriol** 1996 Apr;46(2):422-8
Identification and classification of Oxalobacter formigenes strains by using oligonucleotide probes and primers. Sidhu H, et al. **J Clin Microbiol** 1997 Feb;35(2):350-3
Hepatic abscess likely related to Leptotrichia buccalis in an immunocompetent patient. Messiaen T, et al. **Liver** 1996 Oct;16(5):342-3
Oral endotoxin in healthy adults. Leenstra TS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):637-43
Comparison of gene probe and conventional methods for the differentiation of ovine footrot isolates of Dichelobacter nodosus. Rood JI, et al. **Vet Microbiol** 1996 Sep; 52(1-2):127-41
[First isolation of Bilophila wadsworthia in otitis externa] Schumacher U, et al. **HNO** 1997 Jul;45(7):567-9 (Eng. Abstr.) **(Ger)**
[Bacteria isolated from surgical infections and their susceptibilities to antimicrobial agents. Special references to bacteria isolated between July 1995 and June 1996] Shinagawa N, et al. **Jpn J Antibiot** 1997 Feb;50(2):143-77 (Eng. Abstr.) **(Jpn)**
[Rapid identification of Bilophila wadsworthia] Sawamura H, et al. **Kansenshogaku Zasshi** 1997 Jul;71(7):614-9 (Eng. Abstr.) **(Jpn)**

METABOLISM

Role of formate and hydrogen in the degradation of propionate and butyrate by defined suspended cocultures of acetogenic and methanogenic bacteria. Stams AJ, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):281-4
Sulfate reduction by a syntrophic propionate-oxidizing bacterium. Van Kuijk BL, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):293-6
A freshwater anaerobe coupling acetate oxidation to tetrachloroethylene dehalogenation. Krumholz LR, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4108-13
Taurine reduction in anaerobic respiration of Bilophila wadsworthia RZATAU. Laue H, et al. **Appl Environ Microbiol** 1997 May;63(5):2016-21
Fermentation of trans-aconitate via citrate, oxaloacetate, and pyruvate by Acidaminococcus fermentans. Härtel U, et al. **Arch Microbiol** 1996 Nov;166(5):342-9
Sodium ion-dependent hydrogen production in Acidaminococcus fermentans. Härtel U, et al. **Arch Microbiol** 1996 Nov;166(5):350-6
Studies on tetrachloroethene respiration in Dehalospirillum multivorans. Miller E, et al. **Arch Microbiol** 1996 Dec; 166(6):379-87
Comparative analysis of Embden-Meyerhof and Entner-Doudoroff glycolytic pathways in hyperthermophilic archaea and the bacterium Thermotoga. Selig M, et al. **Arch Microbiol** 1997 Apr;167(4):217-32
Re-investigation of glucose metabolism in Fibrobacter succinogenes, using NMR spectroscopy and enzymatic assays. Evidence for pentose phosphates phosphoketolase and pyruvate formate lyase activities. Matheron C, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):50-60
Assimilation of oxalate, acetate, and CO2 by Oxalobacter formigenes. Cornick NA, et al. **Can J Microbiol** 1996 Nov; 42(11):1081-6
Schwartzia succinivorans gen. nov., sp. nov., another ruminal bacterium utilizing succinate as the sole energy source. van Gylswyk NO, et al. **Int J Syst Bacteriol** 1997 Jan; 47(1):155-9
Effects of culture conditions on Pectinatus cerevisiiphilus and Pectinatus frisingensis metabolism: a physiological and statistical approach. Tholozan JL, et al. **J Appl Bacteriol** 1996 Apr;80(4):418-24
Purification and properties of a low-redox-potential tetraheme cytochrome c3 from Shewanella putrefaciens. Tsapin AI, et al. **J Bacteriol** 1996 Nov;178(21):6386-8
Use of fura-2/AM to measure intracellular free calcium in Selenomonas ruminantium. Nakamura I, et al. **Tohoku J Exp Med** 1996 Aug;179(4):291-4
Stoichiometry of glucose and xylose fermentation in Butyrivibrio fibrisolvens 787. Kovař L, et al. **Ukr Biokhim Zh** 1996 Sep-Oct;68(5):85-9

PATHOGENICITY

Virulence regions and virulence factors of the ovine footrot pathogen, Dichelobacter nodosus. Billington SJ, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):147-56 (36 ref.)

PHYSIOLOGY

[Optimal survival of Bilophila wadsworthia under various transport conditions] Muraoka H, et al. **Kansenshogaku Zasshi** 1996 Jan;70(1):98-100 **(Jpn)**

ULTRASTRUCTURE

Changes in cell morphology of Listeria monocytogenes and Shewanella putrefaciens resulting from the action of protamine. Johansen C, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1058-64

GRAM-NEGATIVE ANAEROBIC COCCI

CLASSIFICATION

Anaerobic cocci of clinical importance [published erratum appears in Br J Biomed Sci 1997 Jun;54(2):154] Wren MW. **Br J Biomed Sci** 1996 Dec;53(4):294-301 (56 ref.)

ENZYMOLOGY

Glutaconate CoA-transferase from Acidaminococcus fermentans: the crystal structure reveals homology with other CoA-transferases. Jacob U, et al. **Structure** 1997 Mar 15;5(3):415-26

GENETICS

Conversion of glutaconate CoA-transferase from Acidaminococcus fermentans into an acyl-CoA hydrolase by site-directed mutagenesis. Mack M, et al. **FEBS Lett** 1997 Mar 24;405(2):209-12

ISOLATION & PURIFICATION

Isolation of Lautropia mirabilis from sputa of a cystic fibrosis patient. Ben Dekhil SM, et al. **J Clin Microbiol** 1997 Apr; 35(4):1024-6

GRAM-NEGATIVE BACTERIA

Evaluation of an interactive computer program to teach gram-stain interpretation. Mandel LP, et al. **Acad Med** 1996 Oct;71(10 Suppl):S100-2
Oral administration of tylosin phosphate for treatment and prevention of proliferative enteropathy in pigs. McOrist S, et al. **Am J Vet Res** 1997 Feb;58(2):136-9
Contagious equine metritis. Timoney PJ. **Comp Immunol Microbiol Infect Dis** 1996 Jun;19(3):199-204
Endotoxin concentration in contact lens storage cases. Fulk GW, et al. **J Am Optom Assoc** 1997 May;68(5):296-300
Monocytes can phagocytose Gram-negative bacteria by a CD14-dependent mechanism. Grunwald U, et al. **J Immunol** 1996 Nov 1;157(9):4119-25
Endotoxin and transient hypoxia cause severe acidosis in the piglet. Groner JI. **J Pediatr Surg** 1997 Jul;32(7):1123-5; discussion 1126
Biofilms associated with poultry processing equipment. Lindsay D, et al. **Microbios** 1996;86(347):105-16
Cytokine networks with infection: mycobacterial infections, leishmaniasis, human immunodeficiency virus infection, and sepsis. DiPiro JT. **Pharmacotherapy** 1997 Mar-Apr; 17(2):205-23 (175 ref.)
Comparative in vitro activity of piperacillin/tazobactam against gram-negative bacilli. Liebowitz LD, et al. **S Afr Med J** 1996 Oct;86(10):1276-80
Ultrastructural changes in skeletal muscle mitochondria in gram-negative sepsis. Welty-Wolf KE, et al. **Shock** 1996 May;5(5):378-84
Analysis of gram negative recolonization of the neuropathic bladder among patients with spinal cord injuries. Donovan WH, et al. **Spinal Cord** 1996 Oct;34(10):587-91

CHEMISTRY

Inhibition of mouse liver cytochrome P-450 by gram-negative bacteria lipopolysaccharides. Kaca W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):39-44
Lipid composition of the gram-negative, budding, seawater bacterium Hyphomonas jannaschiana lacking in phospholipids. Batrakov SG, et al. **Biochim Biophys Acta** 1996 Sep 6;1303(1):39-46
Structure of the O-polysaccharide from the LPS of a Hafnia alvei strain isolated from a patient with suspect yersinosis. Karlsson C, et al. **Carbohydr Res** 1997 May 12;300(2):191-7
Determination of the O-specific polysaccharide structure in the lipopolysaccharide of Ochrobactrum anthropi LMG 3331. Velasco J, et al. **Carbohydr Res** 1996 Jun 7; 287(1):123-6
The lipooligosaccharides of pathogenic gram-negative bacteria. Preston A, et al. **Crit Rev Microbiol** 1996; 22(3):139-80 (192 ref.)
Proteomic 'contigs' of Ochrobactrum anthropi, application of extensive pH gradients. Wasinger VC, et al. **Electrophoresis** 1997 Aug;18(8):1373-83
Bacterial surface structures--an update. Moran AP. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):61-2
Posttranscriptional modification of tRNA in psychrophilic bacteria. Dalluge JJ, et al. **J Bacteriol** 1997 Mar; 179(6):1918-23
Hen egg-white lysozyme inhibits biological activities of lipopolysaccharides from periodontopathic bacteria. Ito HO, et al. **J Periodontal Res** 1997 Apr;32(3):295-9
Atomic structure and specificity of bacterial periplasmic receptors for active transport and chemotaxis: variation of common themes. Quiocho FA, et al. **Mol Microbiol** 1996 Apr;20(1):17-25 (40 ref.)
Pili, peptidases and protein secretion: curious connections. Salmond GP. **Trends Microbiol** 1996 Dec;4(12):474-6
[The determination of phosphoethanolamine and other amino components in the lipopolysaccharides of gram-negative bacteria by ion-exchange chromatography] Veremeichenko SN. **Mikrobiol Z** 1996 Mar-Apr;58(2):70-5 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Questions gram staining classifications and interpretation [letter; comment] Stabenow J. **Am J Vet Res** 1996 Oct; 57(10):1409. Comment on: Am J Vet Res 1996 Sep;57(9):1304-7.
Verrucomicrobia div. nov., a new division of the bacteria containing three new species of Prosthecobacter. Hedlund BP, et al. **Antonie Van Leeuwenhoek** 1997 Jul;72(1):29-38
Differentiation of Shewanella putrefaciens and Shewanella alga on the basis of whole-cell protein profiles, ribotyping, phenotypic characterization, and 16S rRNA gene sequence analysis. Vogel BF, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2189-99
Microbiology terminology update: clinically significant anaerobic gram-positive and gram-negative bacteria (excluding spirochetes). Jousimies-Somer H, et al. **Clin Infect Dis** 1997 Jul;25(1):11-4
Psychroserpens burtonensis gen. nov., sp. nov., and Gelidibacter algens gen. nov., sp. nov., psychrophilic bacteria isolated from antarctic lacustrine and sea ice habitats. Bowman JP, et al. **Int J Syst Bacteriol** 1997 Jul; 47(3):670-7
Sagittula stellata gen. nov., sp. nov., a lignin-transforming bacterium from a coastal environment. Gonzalez JM, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):773-80
Comparison of the 16S/23S ribosomal intergenic regions of "Candidatus Liberobacter asiaticum" and "Candidatus Liberobacter africanum," the two species associated with citrus huanglongbing (greening) disease. Jagoueix S, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):224-7
Amaricoccus gen. nov., a gram-negative coccus occurring in regular packages or tetrads, isolated from activated sludge biomass, and descriptions of Amaricoccus veronensis sp. nov., Amaricoccus tamworthensis sp. nov., Amaricoccus macauensis sp. nov., and Amaricoccus kaplicensis sp. nov. Maszenan AM, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):727-34
Diversity within bacterial isolates hybridizing with Comamonas probe ppT. Koivula TT, et al. **J Basic Microbiol** 1997;37(2):129-37
CDC group IIc: phenotypic characteristics, fatty acid composition, and isoprenoid quinone content. Hollis DG, et al. **J Clin Microbiol** 1996 Sep;34(9):2322-4
Evaluation of CHROMagar Orientation for differentiation and presumptive identification of gram-negative bacilli and Enterococcus species [published erratum appears in J Clin Microbiol 1997 Aug;35(8):2190] Merlino J, et al. **J Clin Microbiol** 1996 Jul;34(7):1788-93
Comparison of identifications of human and animal source gram-negative bacteria by API 20E and crystal E/NF systems. Peele D, et al. **J Clin Microbiol** 1997 Jan; 35(1):213-6
Identification and serotyping of Ornithobacterium rhinotracheale. van Empel P, et al. **J Clin Microbiol** 1997 Feb;35(2):418-21
Differentiation of EF-4 biovars by analysis of methicillin resistance. Allen JW, et al. **Lab Anim Sci** 1997 Apr; 47(2):194-6
In vitro virulence factors of Arcobacter butzleri strains isolated from superficial water samples. Musmanno RA, et al. **New Microbiol** 1997 Jan;20(1):63-8
[Utility of pyrrolidonyl-arylamidase detection for typing Enterobacteriaceae and non-fermenting Gram-negative bacteria] Nicola F, et al. **Rev Argent Microbiol** 1995 Oct-Dec;27(4):204-9 (Eng. Abstr.) **(Spa)**

GRAM-NEGATIVE BACTERIA

CYTOLOGY

The response of selected members of the archaea to the gram stain. Beveridge TJ, et al. **Microbiology** 1996 Oct;142 (Pt 10):2887–95

The bacterial outer membrane as a drug barrier. Hancock RE. **Trends Microbiol** 1997 Jan;5(1):37–42 (26 ref.)

DRUG EFFECTS

Susceptibility of gram-negative bacteria isolated from a paediatric hospital environment to antibiotics. Zembrzuska-Sadkowska E, et al. **Acta Pol Pharm** 1995 Mar-Apr;52(2):161–71

Patterns of resistance in organisms causing gynecologic infections. Tumah H, et al. **Adv Exp Med Biol** 1995; 390:169–75

Studies on the antimicrobial activity of juglans regia. Alkhawajah AM. **Am J Chin Med** 1997;25(2):175–80

Susceptibility of transient and commensal skin flora to the essential oil of Melaleuca alternifolia (tea tree oil). Hammer KA, et al. **Am J Infect Control** 1996 Jun;24(3):186–9

Antimicrobial resistance with focus on beta-lactam resistance in gram-negative bacilli. Pitout JD, et al. **Am J Med** 1997 Jul;103(1):51–9 (27 ref.)

Pharmacodynamic properties of BAY 12-8039 on gram-positive and gram-negative organisms as demonstrated by studies of time-kill kinetics and postantibiotic effect. Boswell FJ, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1377–9

Antimicrobial activity and spectrum of LB20304, a novel fluoronaphthyridone. Cormican MG, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):204–11

Improved activity of a synthetic indolicidin analog. Falla TJ, et al. **Antimicrob Agents Chemother** 1997 Apr; 41(4):771–5

In vitro activities of quinolones, beta-lactams, tobramycin, and trimethoprim-sulfamethoxazole against nonfermentative gram-negative bacilli. Fass RJ, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1412–8

Comparative in vitro activities of carbapenem L-749,345 and other antimicrobials against multiresistant gram-negative clinical pathogens. Jacoby G, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1830–1

In vitro and in vivo activities of LB10522, a new catecholic cephalosporin. Kim MY, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1825–31

Antibacterial activities of epiroprim, a new dihydrofolate reductase inhibitor, alone and in combination with dapsone. Locher HH, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1376–81

Susceptibilities of non-Pseudomonas aeruginosa gram-negative nonfermentative rods to ciprofloxacin, ofloxacin, levofloxacin, D-ofloxacin, sparfloxacin, ceftazidime, piperacillin, piperacillin-tazobactam, trimethoprim-sulfamethoxazole, and imipenem. Spangler SK, et al. **Antimicrob Agents Chemother** 1996 Mar; 40(3):772–5

Evaluation of susceptibility of gram-positive and -negative bacteria to human defensins by using radial diffusion assay. Takemura H, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2280–4

Group of peptides that act synergistically with hydrophobic antibiotics against gram-negative enteric bacteria [published erratum appears in Antimicrob Agents Chemother 1997 Feb;41(2):496] Vaara M, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1801–5

Comparative activity of trovafloxacin, alone and in combination with other agents, against gram-negative nonfermentative rods. Visalli MA, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1475–81

In vitro activity of BAY 12-8039, a new fluoroquinolone. Woodcock JM, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):101–6

Synthesis and antimicrobial activity of beta-[(2-benzimidazolyl)thio]-beta-benzoyl styrene derivatives. Ersan S, et al. **Arzneimittelforschung** 1997 Jun; 47(6):773–5

Mechanisms of action of bactericidal/permeability-increasing protein BPI on reconstituted outer membranes of gram-negative bacteria. Wiese A, et al. **Biochemistry** 1997 Aug 19;36(33):10311–9

Interactions of an antimicrobial peptide, magainin 2, with outer and inner membranes of Gram-negative bacteria. Matsuzaki K, et al. **Biochim Biophys Acta** 1997 Jul 5; 1327(1):119–30

In vitro activity of BAY 12-8039, a new 8-methoxyquinolone. Dalhoff A, et al. **Chemotherapy** 1996 Nov-Dec;42(6):410–25

Effect of phagocytosis of bacteria on the uptake of sparfloxacin by human neutrophils. García I, et al. **Chemotherapy** 1996 Nov-Dec;42(6):465–7

Survey of antibiotic susceptibility among gram-negative bacilli at a cancer center. Rolston KV, et al. **Chemotherapy** 1996 Sep-Oct;42(5):348–53

The effect of monitoring of antibiotic use on decreasing antibiotic resistance in the hospital. Giamarellou H, et al. **Ciba Found Symp** 1997;207:76–86; discussion 86–92 (15 ref.)

Antimicrobial resistance in India and the United States. Peter JB. **Clin Infect Dis** 1996 Dec;23(6):1315–6

Comparative in vitro activity of meropenem versus other extended-spectrum antimicrobials against randomly chosen and selected resistant clinical isolates tested in 26 North American centers. Pitkin DH, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S238–48

Susceptibility of corneal and conjunctival pathogens to ciprofloxacin. Knauf HP, et al. **Cornea** 1996 Jan;15(1):66–71

Antimicrobial activity of RU-66647, a new ketolide. Jones RN, et al. **Diagn Microbiol Infect Dis** 1997 Jan-Feb; 27(1-2):7–12

Epidemiology, control and treatment of multiresistant gram-negative rods. Wiedemann B. **Drugs** 1996;52 Suppl 2:95–100; discussion 100–2 (9 ref.)

Community acquired bacterial infections and their antimicrobial susceptibility in Nairobi, Kenya. Malonza IM, et al. **East Afr Med J** 1997 Mar;74(3):166–70

Pattern of bacterial infections and antimicrobial susceptibility at the Kenyatta National Hospital, Nairobi, Kenya. Omari MA, et al. **East Afr Med J** 1997 Mar;74(3):134–7

Susceptibility pattern of uropathogenic gram negative bacilli to antimicrobial chemotherapeutic agents in a National Hospital in Dar es Salaam [see comments] Urassa WK, et al. **East Afr Med J** 1997 Mar;74(3):162–5. Comment in: East Afr Med J 1997 Mar;74(3):121–3.

Characterization and ion channel activities of novel antibacterial proteins from the skin mucosa of carp (Cyprinus carpio). Lemaître C, et al. **Eur J Biochem** 1996 Aug 15;240(1):143–9

In vitro activity of an orally administered streptogramin (RPR 106,972) compared to quinupristin/dalfopristin and erythromycin. Barry AL, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):155–8

Induction of gram-negative bacterial growth by neurochemical containing banana (Musa x paradisiaca) extracts. Lyte M. **FEMS Microbiol Lett** 1997 Sep 15; 154(2):245–50

Gramicidin S is active against both gram-positive and gram-negative bacteria. Kondejewski LH, et al. **Int J Pept Protein Res** 1996 Jun;47(6):460–6

Novel C-2 substituted carbapenem derivatives. Part II. Synthesis and structure-activity relationships of isoxazolin-2-yl, isoxazolidin-2-yl and 2-pyrazolin-2-yl carbapenems generated using 1,3-dipolar cycloaddition chemistry. Burton G, et al. **J Antibiot (Tokyo)** 1996 Dec; 49(12):1266–74

Synthesis and antibacterial activity of derivatives of the glycopeptide antibiotic A-40926 and its aglycone. Hermann R, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1236–48

Synthesis and biological activity of quaternary ammoniopropenylcephalosporins with hydroxylated alicyclic or aliphatic amines. Lee JY, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1286–9

The mode of antibacterial action of the novel agent ZM240304 (D-arabino-2,3,4-tris(4-chlorobenzyl) pentane-1,5-diamine). Barrett-Bee K, et al. **J Antimicrob Chemother** 1996 Oct;38(4):605–14

Bactericidal activity, post antibiotic effect and modified controlled effective regrowth time of meropenem at high concentrations. Bowker KE, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1055–60

A reassessment of the in-vitro activity of colistin sulphomethate sodium. Catchpole CR, et al. **J Antimicrob Chemother** 1997 Feb;39(2):255–60

In-vitro and in-vivo activities of DW-116, a new fluoroquinolone. Choi KH, et al. **J Antimicrob Chemother** 1997 Apr;39(4):509–14

Antibacterial activity of trovafloxacin against nosocomial Gram-positive and Gram-negative isolates. Cunha BA, et al. **J Antimicrob Chemother** 1997 Jun;39 Suppl B:29–34

Resistance to bismuth among gram-negative bacteria is dependent upon iron and its uptake. Domenico P, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1031–40

In-vitro activity of purpuromycin and MDL 63,604 against microorganisms that cause vaginitis and vaginosis. Goldstein BP, et al. **J Antimicrob Chemother** 1995 Dec; 36(6):1061–5

Resistance to imipenem still uncommon [letter] James D, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1106–7

Antimicrobial activity of cecropins. Moore AJ, et al. **J Antimicrob Chemother** 1996 Jun;37(6):1077–89

Antimicrobial susceptibilities of blood culture isolates obtained before and after the introduction of ciprofloxacin. Pieroni P, et al. **J Antimicrob Chemother** 1997 Mar; 39(3):419–22

Effect of calcium phosphate ceramics on gram-negative bacteria resistant to antibiotics. Opalchenova G, et al. **J Biomed Mater Res** 1996 Nov;32(3):473–9

Antibacterial activities of grepafloxacin, ciprofloxacin, ofloxacin and fleroxacin. Barry AL, et al. **J Chemother** 1997 Feb;9(1):9–16

Tazobactam-piperacillin compared with sulbactam-ampicillin, clavulanic acid-ticarcillin, sulbactam-cefoperazone, and piperacillin for activity against beta-lactamase-producing bacteria isolated from patients with complicated urinary tract infections. Nomura S, et al. **J Chemother** 1997 Apr;9(2):89–94

Susceptibility of 2,000 strains of Gram-negative bacteria to four quinolones. Paradelis AG, et al. **J Chemother** 1995 Nov;7 Suppl 4:56–7

A novel peptide-IgG conjugate, CAP18(106-138)-IgG, that binds and neutralizes endotoxin and kills gram-negative bacteria. Fletcher MA, et al. **J Infect Dis** 1997 Mar; 175(3):621–32

Crystal structure and characterization of the bismuth(III) compound with quinolone family member (ciprofloxacin). Antibacterial study. Turel I, et al. **J Inorg Biochem** 1997 Jun;66(4):241–5

Antibacterial peptides and the outer membranes of gram-negative bacilli [editorial] Hancock RE. **J Med Microbiol** 1997 Jan;46(1):1–3

Antimicrobial activity of electrochemical silver ions in nonionic surfactant solutions and in model dispersions. Scalzo M, et al. **J Pharm Pharmacol** 1996 Jan;48(1):60–3

Minimum inhibitory concentrations of selected antimicrobial agents against bacteria isolated from 1-14-day-old broiler chicks. Klein LK, et al. **J Vet Diagn Invest** 1996 Oct; 8(4):494–5

Influence of calcium concentration on the antimicrobial activity of lasalocid against Selenomonas ruminantium. Nakamura I, et al. **J Vet Med Sci** 1996 Aug;58(8):755–9

Multiple-resistant enterococci and gram-negative bacteria: tracking gene dissemination [editorial] Struelens MJ. **Microb Drug Resist** 1995 Fall;1(3):193–4

Antibiotic-induced endotoxin release from bacteria and its clinical significance. Kirikae T, et al. **Microbiol Immunol** 1997;41(4):285–94 (81 ref.)

Supernatant from cultured intestinal cells inhibits the growth of gram-negative bacteria. Kops SK, et al. **Microbiol Immunol** 1997;41(3):265–9

The mercury resistance operon of the IncJ plasmid pMERPH exhibits structural and regulatory divergence from other Gram-negative mer operons. Osborn AM, et al. **Microbiology** 1996 Feb;142 (Pt 2):337–45

Drug resistance in Detroit River gram-negative bacilli. Campeau RC, et al. **Microbios** 1996;88(357):205–12

Antimicrobial-drug resistance. Gold HS, et al. **N Engl J Med** 1996 Nov 7;335(19):1445–53 (104 ref.)

Microbiologic activity of the newer macrolide antibiotics. McCracken GH Jr. **Pediatr Infect Dis J** 1997 Apr; 16(4):432–7 (21 ref.)

Influence of low dose ciprofloxacin on microbial colonization of the digestive tract in healthy volunteers during normal and during impaired colonization resistance. van de Leur JJ, et al. **Scand J Infect Dis** 1997;29(3):297–300

Susceptibility testing of bacteria and fungi. Report from "the Norwegian Working Group on Antibiotics". Bergan T, et al. **Scand J Infect Dis Suppl** 1997;103:1–36

Antibacterial agents that inhibit lipid A biosynthesis [see comments] Onishi HR, et al. **Science** 1996 Nov 8; 274(5289):980–2. Comment in: Science 1996 Nov 8;274(5289):939–40.

Lipid A: target for antibacterial drugs [comment] Vaara M. **Science** 1996 Nov 8;274(5289):939–40 (12 ref.). Comment on: Science 1996 Nov 8;274(5289):980–2.

[The appearance of ciprofloxacin resistance in the microbial strains isolated from gynecologic patients] Shopova E. **Akush Ginekol (Sofiia)** 1997;36(1):14–6 (Eng. Abstr.) **(Bul)**

[In vitro antibacterial activity of a new fluoroquinolone, sparfloxacin, against nosocomial bacteria, and concordance curve] Soussy CJ, et al. **Pathol Biol (Paris)** 1996 Apr; 44(4):241–8 (Eng. Abstr.) **(Fre)**

[Antimicrobial activities of tosufloxacin against recently obtained clinical isolates] Ishihara R, et al. **Jpn J Antibiot** 1996 Jul;49(7):715–42 (Eng. Abstr.) **(Jpn)**

[Antimicrobial activities of cefetamet against clinical isolates from urinary tract infection] Ishii Y, et al. **Jpn J Antibiot** 1996 Dec;49(12):1073–84 (Eng. Abstr.) **(Jpn)**

[Morphological response of urinary bacteria to ceftibuten] Washida H, et al. **Jpn J Antibiot** 1996 Mar;49(3):273–8 (Eng. Abstr.) **(Jpn)**

[Gram-negative bacilli isolated in a general hospital: high rate of ciprofloxacin resistance (letter)] García del Busto Remón A, et al. **Enferm Infecc Microbiol Clin** 1996 Apr; 14(4):276–7 **(Spa)**

[A multicenter study shows alarming results. High antibiotic resistance within Swedish intensive care] Hanberger H, et al. **Lakartidningen** 1997 Jun 18;94(25):2381–2, 2385–6 **(Swe)**

ENZYMOLOGY

Structure-function relationships of SDR hydroxysteroid dehydrogenases. Oppermann UC, et al. **Adv Exp Med Biol** 1997;414:403–15

Regulation of ammonia assimilation in an obligate methylotroph Methylobacillus flagellatum under steady-state and transient growth conditions. Baev MV, et al. **Antonie Van Leeuwenhoek** 1997 May;71(4):353–61

Characterization of a lactate oxidase from a strain of gram negative bacterium from soil. Xu P, et al. **Appl Biochem Biotechnol** 1996 Mar;56(3):277–88

Purification and characterization of chlorite dismutase: a novel oxygen-generating enzyme. van Ginkel CG, et al. **Arch Microbiol** 1996 Nov;166(5):321–6

Purification and characterization of citrate synthase from Methylobacterium extorquens--a methylotrophic producer of polyhydroxybutyrate. Belova LL, et al. **Biochemistry (Mosc)** 1997 Jan;62(1):71–6

Characterization of a 3 alpha-hydroxysteroid dehydrogenase/carbonyl reductase from the gram-negative bacterium Comamonas testosteroni. Oppermann UC, et al. **Eur J Biochem** 1996 Nov 1; 241(3):744–9

Evolution of dnaQ, the gene encoding the editing 3' to 5' exonuclease subunit of DNA polymerase III holoenzyme in Gram-negative bacteria. Huang Y, et al. **FEBS Lett** 1997

Jan 2;400(1):94–8
PCR detection of metallo-beta-lactamase gene (blaIMP) in gram-negative rods resistant to broad-spectrum beta-lactams. Senda K, et al. **J Clin Microbiol** 1996 Dec; 34(12):2909–13
beta-Lactamase induction in gram-negative bacteria is intimately linked to peptidoglycan recycling. Normark S. **Microb Drug Resist** 1995 Summer;1(2):111–4 (25 ref.)
Degradative pathways for p-toluenecarboxylate and p-toluenesulfonate and their multicomponent oxygenases in Comamonas testosteroni strains PSB-4 and T-2. Junker F, et al. **Microbiology** 1996 Sep;142 (Pt 9):2419–27
Is the ribulose monophosphate pathway widely distributed in bacteria? Reizer J, et al. **Microbiology** 1997 Aug;143 (Pt 8):2519–20
Crystallization and preliminary X-ray diffraction studies of alpha-amylase from the antarctic psychrophile Alteromonas haloplanctis A23. Aghajari N, et al. **Protein Sci** 1996 Oct;5(10):2128–9
Extremely thermostable L(+)-lactate dehydrogenase from Thermotoga maritima: cloning, characterization, and crystallization of the recombinant enzyme in its tetrameric and octameric state. Ostendorp R, et al. **Protein Sci** 1996 May;5(5):862–73
ESBL-producing organisms and cephalosporins [letter] Derby P, et al. **S Afr Med J** 1997 Jan;87(1):80

GENETICS

Verrucomicrobia div. nov., a new division of the bacteria containing three new species of Prosthecobacter. Hedlund BP, et al. **Antonie Van Leeuwenhoek** 1997 Jul;72(1):29–38
Conjugative plasmids and the degradation of arylsulfonates in Comamonas testosteroni. Junker F, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2403–10
Detection of RTX toxin genes in gram-negative bacteria with a set of specific probes. Kuhnert P, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2258–65
Phylogeny of mercury resistance (mer) operons of gram-negative bacteria isolated from the fecal flora of primates. Liebert CA, et al. **Appl Environ Microbiol** 1997 Mar;63(3):1066–76
Cloning and sequencing of the nitrogenase structural genes nifHDK of Herbaspirillum seropedicae. Machado IM, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1599–602
Development of techniques for the genetic manipulation of the gliding bacteria Lysobacter enzymogenes and Lysobacter brunescens. Lin D, et al. **Can J Microbiol** 1996 Sep;42(9):896–902
Mobile gene cassettes and integrons: moving antibiotic resistance genes in gram-negative bacteria. Hall RM. **Ciba Found Symp** 1997;207:192–202; discussion 202–5 (21 ref.)
Molecular aspects of pesticide degradation by microorganisms. Kumar S, et al. **Crit Rev Microbiol** 1996; 22(1):1–26 (129 ref.)
Identification of genes encoding for peptide synthetases in the gram-negative bacterium Lysobacter sp. ATCC 53042 and the fungus Cylindrotrichum oligospermum. Bernhard F, et al. **DNA Seq** 1996;6(6):319–30
Proteomic 'contigs' of Ochrobactrum anthropi, application of extensive pH gradients. Wasinger VC, et al. **Electrophoresis** 1997 Aug;18(8):1373–83
Identification and characterization of the pqqDGC gene cluster involved in pyrroloquinoline quinone production in an obligate methylotroph Methylobacillus flagellatum. Gomelsky M, et al. **FEMS Microbiol Lett** 1996 Aug 1; 141(2–3):169–76
Construction of GFP vectors for use in gram-negative bacteria other than Escherichia coli. Matthysse AG, et al. **FEMS Microbiol Lett** 1996 Nov 15;145(1):87–94
Distribution, diversity and evolution of the bacterial mercury resistance (mer) operon. Osborn AM, et al. **FEMS Microbiol Rev** 1997 Apr;19(4):239–62 (173 ref.)
Colicins B and Ia as novel counterselective agents in interspecies conjugal DNA transfers from colicin-sensitive Escherichia coli donors to other gram-negative recipient species. Brickman TJ, et al. **Gene** 1996 Oct 31; 178(1–2):39–42
Sequencing of Comamonas testosteroni strain B-356-biphenyl/chlorobiphenyl dioxygenase genes: evolutionary relationships among Gram-negative bacterial biphenyl dioxygenases. Sylvestre M, et al. **Gene** 1996 Oct 3;174(2):195–202
Comparison of the 16S/23S ribosomal intergenic regions of "Candidatus Liberobacter asiaticum" and "Candidatus Liberobacter africanum," the two species associated with citrus huanglongbing (greening) disease. Jagoueix S, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):224–7
Plasmids and bacterial resistance to biocides. Russell AD. **J Appl Microbiol** 1997 Aug;83(2):155–65 (120 ref.)
The filamentous morphotype Eikelboom type 1863 is not a single genetic entity. Seviour EM, et al. **J Appl Microbiol** 1997 Apr;82(4):411–21
TRAP transporters: a new family of periplasmic solute transport systems encoded by the dctPQM genes of Rhodobacter capsulatus and by homologs in diverse gram-negative bacteria. Forward JA, et al. **J Bacteriol** 1997 Sep;179(17):5482–93
Characterization of the p-toluenesulfonate operon tsaMBCD and tsaR in Comamonas testosteroni T-2. Junker F, et al. **J Bacteriol** 1997 Feb;179(3):919–27
Testosterone-regulated expression of enzymes involved in steroid and aromatic hydrocarbon catabolism in Comamonas testosteroni. Möbus E, et al. **J Bacteriol** 1997 Sep;179(18):5951–5
The major sigma factor (RpoD) from Helicobacter pylori and other gram-negative bacteria shows an enhanced rate of divergence. Solnick JV, et al. **J Bacteriol** 1997 Oct; 179(19):6196–200
Putative evolutionary origin of plasmids carrying the genes involved in leucine biosynthesis in Buchnera aphidicola (endosymbiont of aphids). van Ham RC, et al. **J Bacteriol** 1997 Aug;179(15):4768–77
Diversity within bacterial isolates hybridizing with Comamonas probe ppT. Koivula TT, et al. **J Basic Microbiol** 1997;37(2):129–37
Heavy metal resistant Arthrobacter sp.—a tool for studying conjugational plasmid transfer between gram-negative and gram-positive bacteria. Margesin R, et al. **J Basic Microbiol** 1997;37(3):217–27
A molecular scheme based on 23S rRNA gene polymorphisms for rapid identification of Campylobacter and Arcobacter species. Hurtado A, et al. **J Clin Microbiol** 1997 Sep;35(9):2401–4
PCR detection of metallo-beta-lactamase gene (blaIMP) in gram-negative rods resistant to broad-spectrum beta-lactams. Senda K, et al. **J Clin Microbiol** 1996 Dec; 34(12):2909–13
Relatedness and phylogeny within the family of periplasmic chaperones involved in the assembly of pili or capsule-like structures of gram-negative bacteria. Bonci A, et al. **J Mol Evol** 1997 Mar;44(3):299–309
Design of bacterial hosts for lac-based expression vectors. Schweizer HP, et al. **Methods Mol Biol** 1997;62:17–27
Multiple-resistant enterococci and gram-negative bacteria: tracking gene dissemination [editorial] Struelens MJ. **Microb Drug Resist** 1995 Fall;1(3):193–4
Unusual ribulose-1,5-bisphosphate carboxylase/oxygenase genes from a marine manganese-oxidizing bacterium. Caspi R, et al. **Microbiology** 1996 Sep;142 (Pt 9):2549–59
Isolation and characterization of the gene encoding single-stranded-DNA-binding protein (SSB) from four marine Shewanella strains that differ in their temperature and pressure optima for growth. Chilukuri LN, et al. **Microbiology** 1997 Apr;143 (Pt 4):1163–74
Degradative pathways for p-toluenecarboxylate and p-toluenesulfonate and their multicomponent oxygenases in Comamonas testosteroni strains PSB-4 and T-2. Junker F, et al. **Microbiology** 1996 Sep;142 (Pt 9):2419–27
The mercury resistance operon of the IncJ plasmid pMERPH exhibits structural and regulatory divergence from other Gram-negative mer operons. Osborn AM, et al. **Microbiology** 1996 Feb;142 (Pt 2):337–45
Pathogenicity islands of virulent bacteria: structure, function and impact on microbial evolution. Hacker J, et al. **Mol Microbiol** 1997 Mar;23(6):1089–97 (61 ref.)
Iron-regulated haemolysin gene from Edwardsiella tarda. Hirono I, et al. **Mol Microbiol** 1997 May;24(4):851–6
Antitermination of transcription of catabolic operons. Rutberg B. **Mol Microbiol** 1997 Feb;23(3):413–21 (71 ref.)
An improved version of suicide vector pKNG101 for gene replacement in gram-negative bacteria [letter] Sarker MR, et al. **Mol Microbiol** 1997 Jan;23(2):410–1
Intracellular endosymbiotic bacteria of Camponotus species (carpenter ants): systematics, evolution and ultrastructural characterization. Schröder D, et al. **Mol Microbiol** 1996 Aug;21(3):479–89
Intercontinental spread of promiscuous mercury-resistance transposons in environmental bacteria. Yurieva O, et al. **Mol Microbiol** 1997 Apr;24(2):321–9
An ancestral mitochondrial DNA resembling a eubacterial genome in miniature [see comments] Lang BF, et al. **Nature** 1997 May 29;387(6632):493–7. Comment in: Nature 1997 May 29;387(6632):454–5.
Leader peptides of inducible chloramphenicol resistance genes from gram-positive and gram-negative bacteria bind to yeast and Archaea large subunit rRNA. Harrod R, et al. **Nucleic Acids Res** 1997 May 1;25(9):1720–6
Pitfalls in the use of random amplified polymorphic DNA (RAPD) for fingerprinting of gram negative organisms. Gao Z, et al. **Pathology** 1996 May;28(2):173–7
pTIM3, a plasmid delivery vector for a transposon-based inducible marker gene system in gram-negative bacteria. Saint CP, et al. **Plasmid** 1995 Nov;34(3):165–74
A DnaB intein in Rhodothermus marinus: indication of recent intein homing across remotely related organisms. Liu XQ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7851–6
Specific cleavage of chromosomal and plasmid DNA strands in gram-positive and gram-negative bacteria can be detected with nucleotide resolution. Zechner EL, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7435–40
PCR-mediated DNA fingerprinting of atypical campylobacter strains isolated from surface and drinking water. Jacob J, et al. **Zentralbl Bakteriol** 1996 Sep; 285(1):106–12

GROWTH & DEVELOPMENT

Iron-limited growth and kinetics of iron uptake in Magnetospirillum gryphiswaldense. Schüler D, et al. **Arch Microbiol** 1996 Nov;166(5):301–7
Growth of gram-negative bacteria in a simulated ocular environment. Cowell BA, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S23–6
Role of tear fluid in the growth of gram-negative bacteria on contact lenses. Williams TJ, et al. **Aust N Z J Ophthalmol** 1997 May;25 Suppl 1:S30–2
Bactericidal activity, post antibiotic effect and modified controlled effective regrowth time of meropenem at high concentrations. Bowker KE, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1055–60
Antimicrobial activity of food-related Penicillium sp. against pathogenic bacteria in laboratory media and a cheese model system. Larsen AG, et al. **J Appl Microbiol** 1997 Jul; 83(1):111–9
The effects of agar concentration on the growth and morphology of submerged colonies of motile and non-motile bacteria. Mitchell AJ, et al. **J Appl Microbiol** 1997 Jul;83(1):76–84
Use of the isolator 1.5 microbial tube for culture of synovial fluid from patients with septic arthritis. Yagupsky P, et al. **J Clin Microbiol** 1997 Sep;35(9):2410–2
Killer toxins of certain yeast strains have potential growth inhibitory activity on gram-positive pathogenic bacteria. Izgü F, et al. **Microbios** 1997;89(358):15–22
Neonatal airway colonization with gram-negative bacilli: association with severity of bronchopulmonary dysplasia. Cordero L, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):18–23
Antimicrobial activity and biocompatibility of polyurethane and silicone catheters containing low concentrations of silver: a new perspective in prevention of polymer-associated foreign-body-infections. Böswald M, et al. **Zentralbl Bakteriol** 1995 Dec;283(2):187–200

IMMUNOLOGY

Production and characterization of mouse monoclonal antibodies against Afipia felis. Engbaek K, et al. **APMIS** 1997 Mar;105(3):192–8
Identification of Afipia felis antigens in culture medium: reaction with human sera. Engbaek K, et al. **APMIS** 1997 Mar;105(3):199–206
Antibody and delayed-type hypersensitivity responses to Ochrobactrum anthropi cytosolic and outer membrane antigens in infections by smooth and rough Brucella spp. Velasco J, et al. **Clin Diagn Lab Immunol** 1997 May; 4(3):279–84
IgA antibodies against Klebsiella and other Gram-negative bacteria in ankylosing spondylitis and acute anterior uveitis. Sprenkels SH, et al. **Clin Rheumatol** 1996 Jan;15 Suppl 1:48–51
IgA antibodies in HLA-B27 associated acute anterior uveitis and ankylosing spondylitis. Sprenkels SH, et al. **Clin Rheumatol** 1996 Jan;15 Suppl 1:52–6
Enhancement of the resistance of tilapia and grass carp to experimental Aeromonas hydrophila and Edwardsiella tarda infections by several polysaccharides. Wang WS, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun; 20(3):261–70
Immunization with bacterial antigens: edwardsiellosis. Thune RL, et al. **Dev Biol Stand** 1997;90:125–34 (46 ref.)
R-form lipopolysaccharides (LPS) of Gram-negative bacteria as possible vaccine antigens. Stanislavsky ES, et al. **FEMS Immunol Med Microbiol** 1997 Jul;18(3):139–45
Immunochemical characterization of a haemagglutinating antigen of Arcobacter spp. Tsang RS, et al. **FEMS Microbiol Lett** 1996 Feb 15;136(2):209–13
Generation and characterization of a human monoclonal IgM antibody that recognizes a conserved epitope shared by lipopolysaccharides of different gram-negative bacteria. Seifert M, et al. **Hybridoma** 1996 Jun;15(3):191–8
Serum rheumatoid factor induced by intraperitoneal administration of periodontopathic bacterial lipopolysaccharide in mice. Hara Y, et al. **J Periodontal Res** 1996 Oct;31(7):502–7
Extracts of periodontopathic microorganisms lack functional superantigenic activity for murine T cells. Petit MD, et al. **J Periodontal Res** 1996 Nov;31(8):517–24
Immunization with antibodies that mimic LPS protects against gram negative bacterial sepsis. Klaerner HG, et al. **J Surg Res** 1997 May;69(2):249–54
Endotoxin antibodies in African sleeping sickness. Pentreath VW, et al. **Parasitology** 1997 Apr;114 (Pt 4):361–5
Purification and molecular cloning of an inducible gram-negative bacteria-binding protein from the silkworm, Bombyx mori. Lee WJ, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7888–93
[Pilot study on the prevalence of Ornithobacterium rhinotracheale infections in food chickens in northwest Germany] Ryll M, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jul–Aug; 110(7–8):267–71 (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Investigation of normal bacterial flora in the upper respiratory tract. Tanaka I, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:44–50
Microbiologic factors and visual outcome in the endophthalmitis vitrectomy study [see comments] **Am J Ophthalmol** 1996 Dec;122(6):830–46. Comment in: Am J Ophthalmol 1997 Jul;124(1):127–30.
Infectious crystalline keratopathy caused by gram-negative bacteria. Khater TT, et al. **Am J Ophthalmol** 1997 Jul; 124(1):19–23
Risk factors for pneumonia, and colonization of respiratory tract and stomach in mechanically ventilated ICU patients. Bonten MJ, et al. **Am J Respir Crit Care Med** 1996 Nov;

154(5):1339–46

Effect of aerosolization on culturability and viability of gram-negative bacteria. Heidelberg JF, et al. **Appl Environ Microbiol** 1997 Sep;63(9):3585–8

Estimation of the abundance of an uncultured soil bacterial strain by a competitive quantitative PCR method. Lee SY, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3787–93

Ornithobacterium rhinotracheale infection in turkey breeders. De Rosa M, et al. **Avian Dis** 1996 Oct–Dec;40(4):865–74

Isolation and identification of Ornithobacterium rhinotracheale from commercial broiler flocks on the Delmarva peninsula. Odor EM, et al. **Avian Dis** 1997 Jan–Mar;41(1):257–60

Experimental infection in turkeys and chickens with Ornithobacterium rhinotracheale. van Empel P, et al. **Avian Dis** 1996 Oct–Dec;40(4):858–64

Shewanella alga bacteremia in two patients with lower leg ulcers. Domínguez H, et al. **Clin Infect Dis** 1996 Jun; 22(6):1036–9

The role of cultures in the management of ulcerative keratitis [see comments] Levey SB, et al. **Cornea** 1997 Jul; 16(4):383–6. Comment in: Cornea 1997 Jul;16(4):381–2.

Concordance of bacterial cultures with endotoxin and interleukin-6 in necrotizing enterocolitis. Duffy LC, et al. **Dig Dis Sci** 1997 Feb;42(2):359–65

Chorioamnionitis caused by gram-negative bacteria as an etiologic factor in preterm birth. Sherman DJ, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):417–23

Gram negative bacteria and contact lens induced acute red eye. Sankaridurg PR, et al. **Indian J Ophthalmol** 1996 Mar; 44(1):29–32

Pathogens responsible for concurrent sinusitis and pneumonia in intensive care unit patients [letter] Bert F, et al. **Infection** 1996 Jan–Feb;24(1):52–3

Bacterial flora of the nasal cavity in laryngectomized patients. Cvetnić V, et al. **Infection** 1996 Jan–Feb;24(1):26–8

Comparison of the 16S ribosomal DNA sequences from the intracellular agents of proliferative enteritis in a hamster, deer, and ostrich with the sequence of a porcine isolate of Lawsonia intracellularis. Cooper DM, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):635–9

Amaricoccus gen. nov., a gram-negative coccus occurring in regular packages or tetrads, isolated from activated sludge biomass, and descriptions of Amaricoccus veronensis sp. nov., Amaricoccus tamworthensis sp. nov., Amaricoccus macauensis sp. nov., and Amaricoccus kaplicensis sp. nov. Maszenan AM, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):727–34

Effect of high pressure on the reduction of microbial populations in vegetables. Arroyo G, et al. **J Appl Microbiol** 1997 Jun;82(6):735–42

Bacteremia caused by Arcobacter cryaerophilus 1B. Hsueh PR, et al. **J Clin Microbiol** 1997 Feb;35(2):489–91

A molecular scheme based on 23S rRNA gene polymorphisms for rapid identification of Campylobacter and Arcobacter species. Hurtado A, et al. **J Clin Microbiol** 1997 Sep;35(9):2401–4

Home-use nebulizers: a potential primary source of Burkholderia cepacia and other colistin-resistant, gram-negative bacteria in patients with cystic fibrosis [published erratum appears in J Clin Microbiol 1996 Jun;34(6):1601] Hutchinson GR, et al. **J Clin Microbiol** 1996 Mar;34(3):584–7

Evaluation of CHROMagar Orientation for differentiation and presumptive identification of gram-negative bacilli and Enterococcus species [published erratum appears in J Clin Microbiol 1997 Aug;35(8):2190] Merlino J, et al. **J Clin Microbiol** 1996 Jul;34(7):1788–93

Discrepancy between culture and DNA probe analysis for the detection of periodontal bacteria. van Steenbergen TJ, et al. **J Clin Periodontol** 1996 Oct;23(10):955–9

Indigenous bacterial flora of medicinal leeches and their susceptibilities to 15 antimicrobial agents. Nonomura H, et al. **J Med Microbiol** 1996 Dec;45(6):490–3

Proliferative enteritis associated with Lawsonia intracellularis (ileal symbiont intracellularis) in white-tailed deer. Drolet R, et al. **J Vet Diagn Invest** 1996 Apr;8(2):250–3

Multiplex polymerase chain reaction for simultaneous detection of Lawsonia intracellularis, Serpulina hyodysenteriae, and salmonellae in porcine intestinal specimens. Elder RO, et al. **J Vet Diagn Invest** 1997 Jul; 9(3):281–6

Specific, nonradioactive detection of the NHP bacterium in Penaeus vannamei by in situ hybridization. Loy JK, et al. **J Vet Diagn Invest** 1996 Jul;8(3):324–31

Plesiomonas shigelloides and sucrose-positive Edwardsiella tarda bacteremia in a man with obstructive jaundice. Leung MJ. **Pathology** 1996 Jan;28(1):68–9

Development of persistent intestinal infection and excretion of Lawsonia intracellularis by piglets. Smith SH, et al. **Res Vet Sci** 1997 Jan–Feb;62(1):6–10

Diagnosing bacteremia at a Danish hospital using one early large blood volume for culture. Arendrup M, et al. **Scand J Infect Dis** 1996;28(6):609–14

Evaluation of serological response to Bartonella henselae, Bartonella quintana and Afipia felis antigens in 64 patients with suspected cat-scratch disease. Dupon M, et al. **Scand J Infect Dis** 1996;28(4):361–6

Diagnosis of proliferative enteritis in frozen and formalin-fixed, paraffin-embedded tissues from a hamster, horse, deer and ostrich using a Lawsonia intracellularis-specific multiplex PCR assay. Cooper DM, et al. **Vet Microbiol** 1997 Jan;54(1):47–62

Thrombotic meningoencephalitis associated with Histophilus ovis infection in lambs in Europe. Cassidy JP, et al. **Vet Rec** 1997 Feb 22;140(8):193–5

Prevalence of Lawsonia intracellularis in swine herds in Taiwan. Chang WL, et al. **Vet Rec** 1997 Jul 26;141(4):103–4

Bacterial isolates from plaque and from blood during and after routine dental procedures in dogs. Nieves MA, et al. **Vet Surg** 1997 Jan–Feb;26(1):26–32

Natural cilia-associated respiratory bacillus infection in rabbits used for elaboration of hyperimmune serum against Mycoplasma sp. Orós J, et al. **Zentralbl Veterinarmed [B]** 1997 Jul;44(5):313–7

[Enterotoxigenicity of gram-negative microorganisms isolated from the region of congenital cleft palate in children] Vadachkoriia ZO, et al. **Antibiot Khimioter** 1996; 41(10):30–1 (Eng. Abstr.) **(Rus)**

[Neonatal meningitis: study of 56 cases] Olmedo Díaz I, et al. **An Esp Pediatr** 1997 Feb;46(2):189–94 (Eng. Abstr.) **(Spa)**

[Evaluation of chromogenic medium CPS ID2 (bioMérieux) in urine cultures (see comments)] Navarro F, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):215–9 (Eng. Abstr.). Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):570–1. Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):571. **(Spa)**

[Gastrointestinal bacteriology of the earthworm Eisenia foetida grown in composted broiler litter] Finola M, et al. **Rev Argent Microbiol** 1995 Oct–Dec;27(4):210–3 (Eng. Abstr.) **(Spa)**

METABOLISM

Ruminal microbial alterations associated with sulfide generation in steers with dietary sulfate-induced polioencephalomalacia. Cummings BA, et al. **Am J Vet Res** 1995 Oct;56(10):1390–5

Extremely thermophilic cellulolytic anaerobes from Icelandic hot springs. Bredholt S, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):263–71

Conjugative plasmids and the degradation of arylsulfonates in Comamonas testosteroni. Junker F, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2403–10

Aerobic and anaerobic metabolism of 6,10,14-trimethylpentadecan-2-one by a denitrifying bacterium isolated from marine sediments. Rontani JF, et al. **Appl Environ Microbiol** 1997 Feb;63(2):636–43

Iron-limited growth and kinetics of iron uptake in Magnetospirillum gryphiswaldense. Schüler D, et al. **Arch Microbiol** 1996 Nov;166(5):301–7

Stoichiometry of oxygen consumption and sugar, organic acid and amino acid utilization in salivary sediment and pure cultures of oral bacteria. Traudt M, et al. **Arch Oral Biol** 1996 Oct;41(10):965–78

Polyunsaturated fatty acids in the psychrophilic bacterium Shewanella gelidimarina ACAM 456T: molecular species analysis of major phospholipids and biosynthesis of eicosapentaenoic acid. Nichols DS, et al. **Biochim Biophys Acta** 1997 Aug 16;1347(2–3):164–76

Secretion of recombinant proteins by Gram-negative bacteria. Sandkvist M, et al. **Curr Opin Biotechnol** 1996 Oct;7(5):505–11 (61 ref.)

Protein secretion in gram-negative bacteria: assembly of the three components of ABC protein-mediated exporters is ordered and promoted by substrate binding. Létoffé S, et al. **EMBO J** 1996 Nov 1;15(21):5804–11

Protein secretion by Gram-negative bacterial ABC exporters--a review. Binet R, et al. **Gene** 1997 Jun 11; 192(1):7–11 (31 ref.)

The conserved tetracysteine motif in the general secretory pathway component PulE is required for efficient pullulanase secretion. Possot OM, et al. **Gene** 1997 Jun 11; 192(1):45–50

Recent progress and future directions in studies of the main terminal branch of the general secretory pathway in Gram-negative bacteria--a review. Pugsley AP, et al. **Gene** 1997 Jun 11;192(1):13–9 (60 ref.)

Bacterial resistances to toxic metal ions--a review. Silver S. **Gene** 1996 Nov 7;179(1):9–19 (70 ref.)

New anticancer antibiotics pelagiomicins, produced by a new marine bacterium Pelagiobacter variabilis. Imamura N, et al. **J Antibiot (Tokyo)** 1997 Jan;50(1):8–12

Resistance to bismuth among gram-negative bacteria is dependent upon iron and its uptake. Domenico P, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1031–40

Biodegradation of aniline, anthracene, chlornitrophen, fenitrothion and linear alkylbenzene sulphonate in pond water. Nishihara T, et al. **J Appl Microbiol** 1997 Apr; 82(4):441–7

Multidrug efflux pumps of gram-negative bacteria. Nikaido H. **J Bacteriol** 1996 Oct;178(20):5853–9 (57 ref.)

Reactivity of murine and human recombinant LPS-binding protein (LBP) within LPS and gram negative bacteria. Lengacher S, et al. **J Inflamm** 1995–96;47(4):165–72

Module swaps between related translocator proteins pIV(f1), pIV(IKe) and PulD: identification of a specificity domain. Daefler S, et al. **J Mol Biol** 1997 Mar 14;266(5):978–92

Quantitative analysis of binding protein-mediated ABC transport systems. Bohl E, et al. **J Theor Biol** 1997 May 7;186(1):65–74

Antibiotic-induced endotoxin release from bacteria and its clinical significance. Kirikae T, et al. **Microbiol Immunol** 1997;41(4):285–94 (81 ref.)

Quelling the red menace: haem capture by bacteria [see comments] Lee BC. **Mol Microbiol** 1995 Nov;18(3):383–90 (82 ref.). Comment in: Mol Microbiol 1996 Apr;20(1):238.

Modulation of the surface architecture of gram-negative bacteria by the action of surface polymer:lipid A-core ligase and by determinants of polymer chain length. Whitfield C, et al. **Mol Microbiol** 1997 Feb;23(4):629–38 (36 ref.)

Intercontinental spread of promiscuous mercury-resistance transposons in environmental bacteria. Yurieva O, et al. **Mol Microbiol** 1997 Apr;24(2):321–9

Detecting and characterizing N-acyl-homoserine lactone signal molecules by thin-layer chromatography. Shaw PD, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6036–41

Breathing with chlorinated solvents [news; comment] McCarty PL. **Science** 1997 Jun 6;276(5318):1521–2. Comment on: Science 1997 Jun 6;276(5318):1568–71.

Isolation of a bacterium that reductively dechlorinates tetrachloroethene to ethene [see comments] Maymó-Gatell X, et al. **Science** 1997 Jun 6;276(5318):1568–71. Comment in: Science 1997 Jun 6;276(5318):1521–2.

Nuclear magnetic resonance timecourse studies of glyphosate metabolism by microbial soil isolates. Gard JK, et al. **Xenobiotica** 1997 Jul;27(7):633–44

[Neutrophil activation by bacterial endotoxins] Klink M, et al. **Postepy Hig Med Dosw** 1996;50(4):333–50 (80 ref.) (Eng. Abstr.) **(Pol)**

[Cytolysins and homologous proteins produced by gram-negative bacteria. II. Hemolysins of Aeromonas, Serratia, Proteus and Morganella and proteins from gram-negative bacteria related to cytolysins] Różalski A. **Postepy Hig Med Dosw** 1996;50(4):363–74 (69 ref.) (Eng. Abstr.) **(Pol)**

[Role of bacterial lipopolysaccharides in human diseases: evolution of outlook] Malov VA, et al. **Vestn Ross Akad Med Nauk** 1997;(8):33–8 (36 ref.) (Eng. Abstr.) **(Rus)**

[Gram-negative virulent bacterial lipopolysaccharide: role in infection and immunity] Vorobév AA, et al. **Vestn Ross Akad Med Nauk** 1997;(3):10–3 (35 ref.) (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Recent trends in clinical isolates from paranasal sinusitis. Suzuki K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:51–5

Pathogenicity islands: bacterial evolution in quantum leaps. Groisman EA, et al. **Cell** 1996 Nov 29;87(5):791–4 (20 ref.)

An initial appraisal of the clinical significance of Roseomonas species associated with human infections. Struthers M, et al. **Clin Infect Dis** 1996 Oct;23(4):729–33

Delivering the payload. Bacterial pathogenesis. Stephens C, et al. **Curr Biol** 1996 Aug 1;6(8):927–30 (21 ref.)

Molecular mechanisms of bacterial virulence: type III secretion and pathogenicity islands. Mecsas JJ, et al. **Emerg Infect Dis** 1996 Oct–Dec;2(4):270–88 (99 ref.)

Protective effect of lysozyme-galactomannan or lysozyme-palmitic acid conjugates against Edwardsiella tarda infection in carp, Cyprinus carpio L. Nakamura S, et al. **FEBS Lett** 1996 Apr 1;383(3):251–4

Molecular mimicry of host structures by bacterial lipopolysaccharides and its contribution to disease. Moran AP, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1; 16(2):105–15 (94 ref.)

Known bacterial virulence factors do not explain the variation in urinary cytokine levels in patients with urosepsis. Prins JM, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31;16(3–4):283–9

In vitro virulence factors of Arcobacter butzleri strains isolated from superficial water samples. Musmanno RA, et al. **New Microbiol** 1997 Jan;20(1):63–8

Pathogenicity differences between South African isolates of Ornithobacterium rhinotracheale. Travers AF, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):197–207

Recognition of bacterial avirulence proteins occurs inside the plant cell: a general phenomenon in resistance to bacterial diseases? Bonas U, et al. **Plant J** 1997 Jul;12(1):1–7 (40 ref.)

Gram-negative shock in rats depends on the presence of capsulated bacteria and is modified by laparotomy. Heemskerk AE, et al. **Shock** 1996 Dec;6(6):418–25

Bacterial lipopolysaccharide binding to host receptors [letter; comment] Hazlett LD. **Trends Microbiol** 1996 Nov; 4(11):418. Comment on: Trends Microbiol 1996 Oct;4(10):408–9.

Contact activation proteins and the bacterial surface. Lottenberg R. **Trends Microbiol** 1996 Nov;4(11):413–4; discussion 414–5 (12 ref.)

Pathogenicity of Ornithobacterium rhinotracheale for turkey poults under experimental conditions. Ryll M, et al. **Vet Rec** 1996 Jul 6;139(1):19

[Gram-negative virulent bacterial lipopolysaccharide: role in infection and immunity] Vorobév AA, et al. **Vestn Ross Akad Med Nauk** 1997;(3):10–3 (35 ref.) (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Infections with Roseomonas gilardii and review of characteristics used for biochemical identification and molecular typing. Lewis L, et al. **Am J Clin Pathol** 1997 Aug;108(2):210–6

The biochemistry and genetics of capsular polysaccharide production in bacteria. Roberts IS. **Annu Rev Microbiol** 1996;50:285-315 (145 ref.)

A simulation of microbial competition in the human colonic ecosystem. Coleman ME, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3632-9

Magneto-aerotaxis in marine coccoid bacteria. Frankel RB, et al. **Biophys J** 1997 Aug;73(2):994-1000

Cytokine induction by bacteria: beyond lipopolysaccharide. Henderson B, et al. **Cytokine** 1996 Apr;8(4):269-82 (160 ref.)

Determination of bacterial cell surface hydrophobicity of single cells in cultures and in wastewater in situ. Zita A, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):299-306

Type-4 pili: biogenesis, adhesins, protein export and DNA import. Proceedings of a workshop. Rottach-Egern, Germany, 26-29 November 1995. **Gene** 1997 Jun 11; 192(1):1-198

Role of the gut in the pathophysiology of extrahepatic biliary obstruction. Clements WD, et al. **Gut** 1996 Oct; 39(4):587-93

Cytolytic toxins from gram-negative bacteria. Ludwig A. **Microbiologia** 1996 Jun;12(2):281-96 (102 ref.)

The two-step lysis system of pneumococcal bacteriophage EJ-1 is functional in gram-negative bacteria: triggering of the major pneumococcal autolysin in Escherichia coli. Diaz E, et al. **Mol Microbiol** 1996 Feb;19(4):667-81

Establishing communication via gram-negative bacterial pili. Kuehn MJ. **Trends Microbiol** 1997 Apr;5(4):130-2 (16 ref.)

The role of pheromones in bacterial interactions. Wirth R, et al. **Trends Microbiol** 1996 Mar;4(3):96-103 (70 ref.)

In-vitro interactions of Lawsonia intracellularis with cultured enterocytes. McOrist S, et al. **Vet Microbiol** 1997 Mar;54(3-4):385-92

[The changes in mucus components of intestine after burn and their relationship with bacterial translocation] Bai X, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):90-2 (Eng. Abstr.) **(Chi)**

[Intestinal lymphatic circulation is one of the important portals for microbial translocation after thermal injury] Peng Y, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):83-5 (Eng. Abstr.) **(Chi)**

[Enterogenous infections (editorial)] Xiao G.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):81-2 **(Chi)**

[Bacterial translocation induces remnant liver injury after subtotal (90%) hepatectomy in rats--the effect of decontamination of gram-negative rods in digestive tract by oral polymyxin B treatment] Iso A, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Aug;93(8):544-52 (Eng. Abstr.) **(Jpn)**

[Bacterial translocation induces remnant liver injury after subtotal (90%) hepatectomy in rats (letter)] Mochida T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):570-1 **(Jpn)**

[Bacterial translocation in acute pancreatitis. Experimental study in rats] de Souza L, et al.
Rev Hosp Clin Fac Med Sao Paulo 1996 Jul-Aug; 51(4):116-20 (Eng. Abstr.) **(Por)**

[Bacterial translocation in a model of small intestine autotransplant in dogs] López F, et al. **Rev Med Chil** 1995 Dec;123(12):1453-60 (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Fimbrial adhesins: similarities and variations in structure and biogenesis. Smyth CJ, et al.
FEMS Immunol Med Microbiol 1996 Dec 1;16(2):127-39 (65 ref.)

Fine-structure evidence for cell membrane partitioning of the nucleoid and cytoplasm during bud formation in Hyphomonas species. Zerfas PM, et al. **J Bacteriol** 1997 Jan;179(1):148-56

Cocci, not Klebsiella [letter; comment] Edelstein PH.
N Engl J Med 1997 Apr 24;336(17):1262. Comment on: N Engl J Med 1996 Nov 7;335(19):1437.

GRAM-NEGATIVE BACTERIAL INFECTIONS

Aeromonas hydrophila soft-tissue infection: a report of two cases [letter] Caudell MJ, et al. **Acad Emerg Med** 1997 Feb; 4(2):157-8

Endogenous Ochrobactrum anthropi endophthalmitis. Berman AJ, et al. **Am J Ophthalmol** 1997 Apr;123(4):560-2

Infectious crystalline keratopathy caused by gram-negative bacteria. Khater TT, et al. **Am J Ophthalmol** 1997 Jul; 124(1):19-23

Severe cellulitis of the lower leg. Golledge C.
Aust Fam Physician 1997 Mar;26(3):325

Gram-negative bacteria can induce contact lens related acute red eye (CLARE) responses. Holden BA, et al.
CLAO J 1996 Jan;22(1):47-52

Achromobacter xylosoxidans bacteremia: report of four cases and review of the literature. Duggan JM, et al.
Clin Infect Dis 1996 Sep;23(3):569-76 (64 ref.)

Vertebral osteomyelitis due to Capnocytophaga species in immunocompetent patients: report of two cases and review. Duong M, et al. **Clin Infect Dis** 1996 Jun;22(6):1099-101 (15 ref.)

Flavobacterium indologenes bacteremia: clinical and microbiological characteristics. Hsueh PR, et al.
Clin Infect Dis 1996 Sep;23(3):550-5

Flavobacterium meningosepticum: an unusual pathogen [letter] Ramachandran VG, et al. **Indian Pediatr** 1996 Aug; 33(8):705

A fresh water pathogen and its pedal manifestations [letter] Albreski DA, et al. **J Am Podiatr Med Assoc** 1996 Mar; 86(3):135-7

Spontaneous bacterial peritonitis. Clinical and microbiological study of 233 episodes. Boixeda D, et al. **J Clin Gastroenterol** 1996 Dec;23(4):275-9

HACEK group endocarditis at the Riyadh Armed Forces Hospital. el Khizzi N, et al. **J Infect** 1997 Jan;34(1):69-74

Stenotrophomonas maltophilia meningitis. Report of two cases and review of the literature. Papadakis KA, et al. **J Neurosurg** 1997 Jul;87(1):106-8 (14 ref.)

Periodontal infection as a possible risk factor for preterm low birth weight. Offenbacher S, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1103-13

Using a new inbred fish model and cultured fish tissue cells to study Aeromonas hydrophila and Yersinia ruckeri pathogenesis. Kawula TH, et al. **Microb Pathog** 1996 Feb; 20(2):119-25

Beware of the dog! [letter; comment] Bhandari S.
Nephrol Dial Transplant 1997 Mar;12(3):620-1. Comment on: Nephrol Dial Transplant 1996 Sep;11(9):1839-40.

Aeromonas hydrophila necrotizing fasciitis and gas gangrene in a diabetic patient on haemodialysis. Furusu A, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1730-4

The use of extracorporeal membrane oxygenation in patients with gram-negative or viral sepsis. Stewart DL, et al.
Perfusion 1997 Mar;12(1):3-8

Chronic postoperative gram-negative endophthalmitis. Aaberg TM Jr, et al. **Retina** 1997;17(3):260-2

Capnocytophaga canimorsus endophthalmitis.
Zimmer-Galler IE, et al. **Retina** 1996;16(2):163-4

Vertebral osteomyelitis due to Capnocytophaga. Piroth C, et al. **Rev Rhum Engl Ed** 1995 Dec;62(11):798-801

Lemierre's syndrome. Lee BK, et al. **South Med J** 1997 Jun; 90(6):640-3

[The changes in mucus components of intestine after burn and their relationship with bacterial translocation] Bai X, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):90-2 (Eng. Abstr.) **(Chi)**

[Intestinal lymphatic circulation is one of the important portals for microbial translocation after thermal injury] Peng Y, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1996 Mar;12(2):83-5 (Eng. Abstr.) **(Chi)**

[Gram-negative virulent bacterial lipopolysaccharide: role in infection and immunity] Vorobév AA, et al.
Vestn Ross Akad Med Nauk 1997;(3):10-3 (35 ref.) (Eng. Abstr.) **(Rus)**

[Bacteremia caused by Stenotrophomonas (Xanthomonas) maltophila (letter)] Campos-Herrero MI, et al.
Enferm Infecc Microbiol Clin 1997 Apr;15(4):223-5 **(Spa)**

BLOOD

Increased serum concentrations of the carboxy-terminal cross-linked telopeptide of collagen type I in patients with Gram-negative septicaemia. Wenisch C, et al.
Eur J Clin Invest 1996 Mar;26(3):237-9

Correlations between endotoxin, interferon-gamma, biopterin and serum phospholipase A2-activities during lethal gram negative sepsis in rats. Hunsicker A, et al. **Eur J Surg** 1997 May;163(5):379-85

CHEMICALLY INDUCED

[Gram negative folliculitis. A complication of antibiotic therapy of acne vulgaris. 2: Diagnosis and differential diagnosis--therapy] Jansen T, et al. **Fortschr Med** 1997 Feb 10;115(4):42-4 **(Ger)**

[Gram-negative folliculitis. Complication of antibiotic therapy of acne vulgaris, 1: Disease picture and classification--special form: whirlpool dermatitis] Jansen T, et al. **Fortschr Med** 1997 Jan 30;115(3):37-8 **(Ger)**

COMPLICATIONS

Plesiomonas shigelloides bacteremia in a child with leukemia [letter; comment] Riley PA, et al. **Clin Infect Dis** 1996 Jul; 23(1):206-7. Comment on: Clin Infect Dis 1995 Sep;21(3):692-3.

Agrobacterium radiobacter pneumonia in a patient with HIV infection [letter] Mastroianni A, et al.
Eur J Clin Microbiol Infect Dis 1996 Dec;15(12):960-3

Evidence of the proinflammatory role of Enterococcus faecalis in polymicrobial peritonitis in rats. Montravers P, et al. **Infect Immun** 1997 Jan;65(1):144-9

Fulminant pneumonia and sepsis due to Aeromonas hydrophila in an alcohol abuser. Takano Y, et al.
Intern Med 1996 May;35(5):410-2

Recurrent CDC group IVc-2 bacteremia in a human with AIDS. Anderson RR, et al. **J Clin Microbiol** 1997 Mar; 35(3):780-2 (15 ref.)

Hepatic abscess likely related to Leptotrichia buccalis in an immunocompetent patient. Messiaen T, et al. **Liver** 1996 Oct;16(5):342-3

Capnocytophaga meningitis in a cancer patient. Kim JO, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):636-7 (11 ref.)

[Aeromonas hydrophila bone infection (letter)] Deghrar A, et al. **Presse Med** 1997 Mar 22;26(9):415 **(Fre)**

[A case of severe acute hepatorenal failure due to Aeromoas hydrophila septicemia] Yokoba M, et al.
Kansenshogaku Zasshi 1996 Oct;70(10):1111-5 (Eng. Abstr.) **(Jpn)**

[Role of bacterial lipopolysaccharides in human diseases: evolution of outlook] Malov VA, et al.
Vestn Ross Akad Med Nauk 1997;(8):33-8 (36 ref.) (Eng. Abstr.) **(Rus)**

[Hydropneumothorax in Eikenella corrodens infection (letter)] Ferrando D, et al. **Arch Bronconeumol** 1997 Apr; 33(4):204 **(Spa)**

[Aeromonas hydrophila rapidly progressive myonecrosis (letter; comment)] Torres L, et al.
Enferm Infecc Microbiol Clin 1996 Nov;14(9):572-3. Comment on: Enferm Infecc Microbiol Clin 1995 Oct;13(8):469-72. **(Spa)**

[Bacteremia by Alcaligenes xylosoxidans: report of a case (letter)] Torres L, et al. **Med Clin (Barc)** 1997 Jun 21; 109(4):158-9 **(Spa)**

[Severe acute gastroenteritis due to Aeromonas in a patient colectomized for Crohn's disease] de Sola Earle C, et al.
Rev Esp Enferm Dig 1997 Jan;89(1):48-50 (18 ref.) (Eng. Abstr.) **(Spa)**

[Bacteremia for Aeromonas sobria in a patient with cholecystitis (letter)] Torres L, et al.
Rev Esp Enferm Dig 1997 Apr;89(4):332 **(Spa)**

DIAGNOSIS

Application of a new perchloric acid treatment method to measure endotoxin in both amniotic fluid and cord blood by an endotoxin-specific chromogenic Limulus test in intra-amniotic infection. Suda H, et al.
Acta Paediatr Jpn 1996 Oct;38(5):444-8

Usefulness of the endotoxin test for assessing CAPD peritonitis by gram-negative organisms. Ishizaki M, et al.
Adv Perit Dial 1996;12:199-202

Xanthomonas maltophilia peritonitis in uremic patients receiving continuous ambulatory peritoneal dialysis. Szeto CC, et al. **Am J Kidney Dis** 1997 Jan;29(1):91-5

The accuracy of elevated concentrations of endotoxin in bronchoalveolar lavage fluid for the rapid diagnosis of gram-negative pneumonia. Kollef MH, et al.
Am J Respir Crit Care Med 1996 Oct;154(4 Pt 1):1020-8

Diagnosis and treatment of bacteremia and intravascular catheter infections. Bullard KM, et al. **Am J Surg** 1996 Dec;172(6A):13S-19S (51 ref.)

Infective endocarditis caused by HACEK microorganisms. Das M, et al. **Annu Rev Med** 1997;48:25-33

Recurrent cellulitis and bacteremia caused by Flavobacterium odoratum. Bachman KH, et al.
Clin Infect Dis 1996 Jun;22(6):1112-3

Severe knee arthritis due to Eikenella corrodens following a human bite. Bonnet M, et al. **Clin Infect Dis** 1997 Jan; 24(1):80-1

Methylobacterium mesophilicum synovitis in an alcoholic. Liu JW, et al. **Clin Infect Dis** 1997 May;24(5):1008-9

Diagnosis: Capnocytophaga canimorsus septicemia. Mossad SB, et al. **Clin Infect Dis** 1997 Feb;24(2):123, 267

Eikenella corrodens infections. Case report in two adolescent females with IDDM. Newfield RS, et al. **Diabetes Care** 1996 Sep;19(9):1011-3

Detection of gram-negative bacteraemia in early sepsis by a quantitative chromogenic and kinetic endotoxin assay. The Study Group. Massignon D, et al.
Eur J Clin Invest 1996 Jul;26(7):596-601

Oerskovia turbata and Comamonas acidovorans bacteremia in a patient with AIDS [letter] Lair MI, et al.
Eur J Clin Microbiol Infect Dis 1996 May;15(5):424-6

Agrobacterium radiobacter pneumonia in a patient with HIV infection [letter] Mastroianni A, et al.
Eur J Clin Microbiol Infect Dis 1996 Dec;15(12):960-3

Five cases of extraoral infection associated with Eikenella corrodens [letter] Nebreda T, et al.
Eur J Clin Microbiol Infect Dis 1997 Mar;16(3):254-6

Prostatic abscesses in sub-Saharan Africa: a hospital-based experience from Cameroon. Angwafo FF 3rd, et al.
Eur Urol 1996;30(1):28-33

Sphingobacterium multivorum septicemia: a case report. Areekul S, et al. **J Med Assoc Thai** 1996 Jun;79(6):395-8

Chryseobacterium meningosepticum: an emerging pathogen among immunocompromised adults. Report of 6 cases and literature review. Bloch KC, et al. **Medicine (Baltimore)** 1997 Jan;76(1):30-41 (84 ref.)

Francisella philomiragia sepsis in chronic granulomatous disease. Sicherer SH, et al. **Pediatr Infect Dis J** 1997 Apr; 16(4):420-2

The diagnostic value of Gram stain for initial identification of the etiologic agent of peritonitis in CAPD patients. Bezerra DA, et al. **Perit Dial Int** 1997 May-Jun; 17(3):269-72

Case report and review of Chromobacterium sepsis--a gram-negative sepsis mimicking melioidosis. Chong CY, et al. **Singapore Med J** 1997 Jun;38(6):263-5 (19 ref.)

[Slowly-evolving pneumonia in a 14-year-old boy] Villuendas C, et al. **Enferm Infecc Microbiol Clin** 1995 Dec; 13(10):629-30 (6 ref.) **(Spa)**

GRAM-NEGATIVE BACTERIAL INFECTIONS

DRUG THERAPY

Once-daily aminoglycoside dosing [letter; comment] Baxter R. **Ann Intern Med** 1997 Feb 15;126(4):330. Comment on: Ann Intern Med 1996 Apr 15;124(8):717-25.

Results of a randomized trial of granulocyte colony-stimulating factor in patients with infection and severe granulocytopenia. Avilés A, et al. **Anticancer Drugs** 1996 Jun;7(4):392-7

Monotherapy versus beta-lactam-aminoglycoside combination treatment for gram-negative bacteremia: a prospective, observational study. Leibovici L, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1127-33

Effect of antibiotic treatment on vegetation size and complication rate in infective endocarditis. Rohmann S, et al. **Clin Cardiol** 1997 Feb;20(2):132-40

Antimicrobial resistance rates among aerobic gram-negative bacilli recovered from patients in intensive care units: evaluation of a national postmarketing surveillance program. Itokazu GS, et al. **Clin Infect Dis** 1996 Oct; 23(4):779-84

Successful treatment of Stomatococcus mucilaginosus meningitis with intravenous vancomycin and intravenous ceftriaxone. Park MK, et al. **Clin Infect Dis** 1997 Feb; 24(2):278

Reports on surveillance of antimicrobial resistance in individual countries. Rahal K, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S169-75

Failure to clear a Roseomonas line infection with antibiotic therapy. Richardson JD. **Clin Infect Dis** 1997 Jul;25(1):155

Successful treatment of Aeromonas hydrophila peritoneal dialysis-associated peritonitis using intermittent intraperitoneal gentamicin. Eisele G, et al. **Clin Nephrol** 1995 Dec;44(6):402

Relationship between hemodynamic and vital support measures and pharmacokinetic variability of amikacin in critically ill patients with sepsis. Lugo G, et al. **Crit Care Med** 1997 May;25(5):806-11

Use of oral cephalosporins in infants and children. Barnett ED, et al. **Curr Clin Top Infect Dis** 1997;17:316-33 (70 ref.)

Eikenella corrodens infections. Case report in two adolescent females with IDDM. Newfield RS, et al. **Diabetes Care** 1996 Sep;19(9):1011-3

A practical guide to the management of complicated urinary tract infection. Nicolle LE. **Drugs** 1997 Apr;53(4):583-92 (39 ref.)

Fosfomycin tromethamine. A review of its antibacterial activity, pharmacokinetic properties and therapeutic efficacy as a single-dose oral treatment for acute uncomplicated lower urinary tract infections. Patel SS, et al. **Drugs** 1997 Apr;53(4):637-56 (106 ref.)

Epidemiology, control and treatment of multiresistant gram-negative rods. Wiedemann B. **Drugs** 1996;52 Suppl 2:95-100; discussion 100-2 (9 ref.)

Treatment of acute biliary tract infections with ofloxacin: a randomized, controlled clinical trial. Karachalios GN, et al. **Int J Clin Pharmacol Ther** 1996 Dec;34(12):555-7

Chronic osteomyelitis caused by multi-resistant Gram-negative bacteria: evaluation of treatment with newer quinolones after prolonged follow-up. Galanakis N, et al. **J Antimicrob Chemother** 1997 Feb;39(2):241-6

Antimicrobial practice. Development of guidelines for gentamicin dosing. Thomson AH, et al. **J Antimicrob Chemother** 1996 Nov;38(5):885-93

Efficacy and safety of once-daily amikacin in combination with ceftazidime in critically ill adults with severe gram-negative infections. Fayed DF, et al. **J Chemother** 1996 Dec;8(6):457-64

Aztreonam/clavulanic acid in the treatment of serious infections caused by Stenotrophomonas maltophilia in neutropenic patients: case reports. García Sánchez JE, et al. **J Chemother** 1997 Jun;9(3):238-40

Gram-negative bacillary meningitis in adults. Ventura G, et al. **J Chemother** 1995 Nov;7 Suppl 4:177-9

Pharmacokinetics of amikacin in intensive care unit patients. Fernández de Gatta MM, et al. **J Clin Pharm Ther** 1996 Dec;21(6):417-21

Hepatic abscess due to Eikenella corrodens and Streptococcus milleri: implications for antibiotic therapy. Quinlivan D, et al. **J Infect** 1996 Jul;33(1):47-8

Clinical and microbiological evaluation of pefloxacin in lower respiratory tract infections. Tatsis G, et al. **J Int Med Res** 1996 Nov-Dec;24(6):478-81

In-vitro activity of cefoperazone-sulbactam combination against cefoperazone resistant clinical isolates in a Malaysian general hospital. Lim VK, et al. **Malays J Pathol** 1995 Dec;17(2):73-6

Antibiotic-induced antimicrobial resistance in Aeromonas spp [letter] Paterson DL. **Med J Aust** 1997 Feb 3;166(3):165

Treatment of vancomycin-resistant Enterococcus faecium infections with an investigational streptogramin antibiotic (quinupristin/dalfopristin): a report of fifteen cases. Dever LL, et al. **Microb Drug Resist** 1996 Winter;2(4):407-13

Antibiotic-induced endotoxin release from bacteria and its clinical significance. Kirikae T, et al. **Microbiol Immunol** 1997;41(4):285-94 (81 ref.)

Gram-negative peritonitis in peritoneal dialysis: improved outcome with intraperitoneal ceftazidime. Shemin D, et al. **Perit Dial Int** 1996 Nov-Dec;16(6):638-41

Stenotrophomonas (Xanthomonas) maltophilia: a multidrug-resistant nosocomial pathogen. Penzak SR, et al. **Pharmacotherapy** 1997 Mar-Apr;17(2):293-301 (88 ref.)

Fatal myofascial necrosis due to imipenem-resistant Aeromonas hydrophila. González-Barca E, et al. **Scand J Infect Dis** 1997;29(1):91-2

Antibiotics, cytokines, and endotoxin: a complex and evolving relationship in gram-negative sepsis. Horn DL, et al. **Scand J Infect Dis Suppl** 1996;101:9-13 (48 ref.)

Evidence for antibiotic-mediated endotoxin release as a contributing factor to lethality in experimental gram-negative sepsis. Morrison DC, et al. **Scand J Infect Dis Suppl** 1996;101:3-8 (25 ref.)

Aminoglycoside levels in critically ill surgical patients: the implications of physiologic criteria of sepsis. Cornwell EE 3rd, et al. **South Med J** 1997 Jan;90(1):33-6

[Is it still possible to reduce the incidence of nephrotoxicity of aminoglycosides?] Beauchamp D, et al. **Pathol Biol (Paris)** 1995 Nov;43(9):779-87 (89 ref.) (Eng. Abstr.) **(Fre)**

[Septicemia with gram-negative bacilli. The possibilities and limits of an etiological therapy] Grigore L. **Bacteriol Virusol Parazitol Epidemiol** 1996 Jul-Dec; 41(3-4):151-60 (31 ref.) **(Rum)**

[Cefotaxime (klaforan) in modern therapy of bacterial infections] Khess R, et al. **Antibiot Khimioter** 1996 Mar; 41(3):44-56 (38 ref.) **(Rus)**

EPIDEMIOLOGY

An initial appraisal of the clinical significance of Roseomonas species associated with human infections. Struthers M, et al. **Clin Infect Dis** 1996 Oct;23(4):729-33

Gram negative bacillary meningitis in infants and children in developing countries. Akpede GO, et al. **East Afr Med J** 1996 Sep;73(9):586-91 (21 ref.)

Molecular epidemiology of Burkholderia cepacia, Stenotrophomonas maltophilia, and Alcaligenes xylosoxidans in a cystic fibrosis center. Vu-Thien H, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):876-9

Aeromonas species and Plesiomonas shigelloides in diarrhoea in Goa. Verenkar M, et al. **Indian J Pathol Microbiol** 1995 Apr;38(2):169-71

Evidence for the genetic unrelatedness of nosocomial Alcaligenes xylosoxidans strains in a pediatric hospital. Benaoudia F, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):132-4

Exploring the use of the medicinal leech: a clinical risk-benefit analysis. de Chalain TM. **J Reconstr Microsurg** 1996 Apr;12(3):165-72

[Predictive factors for hospital infections caused by Gram-positive and Gram-negative organisms] Domínguez-Castellano A, et al. **Enferm Infecc Microbiol Clin** 1995 Dec;13(10):596-9 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Polymicrobial gram-negative bacteremia associated with saline solution flush used with a needleless intravenous system. Chodoff A, et al. **Am J Infect Control** 1995 Dec; 23(6):357-63

Xanthomonas maltophilia endophthalmitis after cataract extraction. Kaiser GM, et al. **Am J Ophthalmol** 1997 Mar; 123(3):410-1

Pathogenic analysis of Aeromonas hydrophila septicemia. Chang CY, et al. **Ann Clin Lab Sci** 1997 Jul-Aug; 27(4):254-9

Aeromonas bacteraemia in burn patients. Barillo DJ, et al. **Burns** 1996 Feb;22(1):48-52 (33 ref.)

Clinical approach to infective endocarditis. Saccente M, et al. **Cardiol Clin** 1996 Aug;14(3):351-62 (73 ref.)

Bacteria-associated hemophagocytic syndrome in childhood acute lymphoblastic leukemia: report of two cases. Hsiao CC, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov-Dec;37(6):466-70

Xanthomonas maltophilia keratitis associated with contact lenses [letter] Spraul CW, et al. **CLAO J** 1996 Jul;22(3):158

Ochrobactrum anthropi infection of retained pacemaker leads [letter; comment] Earhart KC, et al. **Clin Infect Dis** 1997 Feb;24(2):281-2. Comment on: Clin Infect Dis 1996 May;22(5):845-7.

Capnocytophaga canimorsus septicemia in Denmark, 1982-1995: review of 39 cases. Pers C, et al. **Clin Infect Dis** 1996 Jul;23(1):71-5 (49 ref.)

Molecular mechanisms of bacterial virulence: type III secretion and pathogenicity islands. Mecsas JJ, et al. **Emerg Infect Dis** 1996 Oct-Dec;2(4):270-88 (99 ref.)

Capnocytophaga canimorsus infections in human: review of the literature and cases report. Lion C, et al. **Eur J Epidemiol** 1996 Oct;12(5):521-33 (83 ref.)

Pancreatic infections. Stephan RN, et al. **Gastroenterologist** 1996 Sep;4(3):163-8 (39 ref.)

Gram negative bacteria and contact lens induced acute red eye. Sankaridurg PR, et al. **Indian J Ophthalmol** 1996 Mar; 44(1):29-32

Aeromonas bacteremia in patients with hematologic diseases. Funada H, et al. **Intern Med** 1997 Mar;36(3):171-4

Veillonella parvula bacteremia without an underlying source. Fisher RG, et al. **J Clin Microbiol** 1996 Dec;34(12):3235-6

Case of bacterial endophthalmitis caused by an Agrobacterium radiobacter-like organism. Miller JM, et al. **J Clin Microbiol** 1996 Dec;34(12):3212-3

Risk factors for nosocomial infections caused by gram-negative bacilli. The Hellenic Antibiotic Resistance Study Group. Vatopoulos AC, et al. **J Hosp Infect** 1996 Sep;34(1):11-22

Recurrent septicaemia due to "Achromobacter group B". Jenks PJ, et al. **J Infect** 1997 Mar;34(2):143-5

Beware of the dog! A syndrome resembling thrombotic thrombocytopenic purpura associated with Capnocytophaga canimorsus septicaemia [see comments] Finn M, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1839-40. Comment in: Nephrol Dial Transplant 1997 Mar;12(3):620-1.

Flavobacterium indologenes keratitis. Lu PC, et al. **Ophthalmologica** 1997;211(2):98-100

Blebitis, early endophthalmitis, and late endophthalmitis after glaucoma-filtering surgery. Ciulla TA, et al. **Ophthalmology** 1997 Jun;104(6):986-95

Neonatal airway colonization with gram-negative bacilli: association with severity of bronchopulmonary dysplasia. Cordero L, et al. **Pediatr Infect Dis J** 1997 Jan;16(1):18-23

Vascular catheter-related Comamonas acidovorans bacteremia managed with preservation of the catheter. Ender PT, et al. **Pediatr Infect Dis J** 1996 Oct; 15(10):918-20

Infections after shark attacks in Australia. Royle JA, et al. **Pediatr Infect Dis J** 1997 May;16(5):531-2

Flavimonas oryzihabitans peritonitis in CAPD [letter] Cusimano A, et al. **Perit Dial Int** 1997 Jul-Aug;17(4):406-7

A cluster of gram-negative peritonitis episodes associated with reuse of HomeChoice cycler cassettes and drain lines. Ponferrada LP, et al. **Perit Dial Int** 1996 Nov-Dec; 16(6):636-8

IMMUNOLOGY

Serum levels of CD14 in neonatal sepsis by Gram-positive and Gram-negative bacteria. Blanco A, et al. **Acta Paediatr** 1996 Jun;85(6):728-32

The pathogenesis of sepsis. Factors that modulate the response to gram-negative bacterial infection. Marsh CB, et al. **Clin Chest Med** 1996 Jun;17(2):183-97 (203 ref.)

Local and systemic complement activity in small intestinal bacterial overgrowth. Riordan SM, et al. **Dig Dis Sci** 1997 Jun;42(6):1128-36

Applied molecular biology of sepsis. Remick DG. **J Crit Care** 1995 Dec;10(4):198-212 (85 ref.)

The cell surface of Aeromonas salmonicida determines in vitro survival in cultured brook trout (Salvelinus fontinalis) peritoneal macrophages. Daly JG, et al. **Microb Pathog** 1996 Dec;21(6):447-61

NO in septic shock: good, bad or ugly? Learning from iNOS knockouts. Gross SS, et al. **Trends Microbiol** 1996 Feb; 4(2):47-9

Multiple regulation of carp (Cyprinus carpio L.) macrophages and neutrophilic granulocytes by serum factors: influence of infection with atypical Aeromonas salmonicida. Verburg-van Kemenade BM, et al. **Vet Immunol Immunopathol** 1996 May;51(1-2):189-200

METABOLISM

Pharmacokinetics of aztreonam in critically ill surgical patients. Cornwell EE 3rd, et al. **Am J Health Syst Pharm** 1997 Mar 1;54(5):537-40

Hydrolysis of imipenem, meropenem, ceftazidime, and cefepime by multiresistant nosocomial strains of Sphingobacterium multivorum [letter] Blahová J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):178-80

MICROBIOLOGY

Patterns of resistance in organisms causing gynecologic infections. Tumah H, et al. **Adv Exp Med Biol** 1995; 390:169-75

Infections with Roseomonas gilardii and review of characteristics used for biochemical identification and molecular typing. Lewis L, et al. **Am J Clin Pathol** 1997 Aug;108(2):210-6

Haemolytic activity of Aeromonas species isolated in Libya. Ghenghesh KS, et al. **Arch Inst Pasteur Tunis** 1995 Jan-Apr;72(1-2):13-5

Structure of the O-polysaccharide from the LPS of a Hafnia alvei strain isolated from a patient with suspect yersinosis. Karlsson C, et al. **Carbohydr Res** 1997 May 12;300(2):191-7

Aeromonas and Plesiomonas species as bacterial agents of diarrhoea in urban and rural areas of Nigeria: antibiogram of isolates [see comments] Obi CL, et al. **Cent Afr J Med** 1995 Dec;41(12):397-403. Comment in: Cent Afr J Med 1996 May;42(5):156-7.

Aerobic bacteria isolated from blood cultures of patients and their antibiotic susceptibilities in Harare, Zimbabwe. Obi CL, et al. **Cent Afr J Med** 1996 Dec;42(12):332-6

Methylobacterium bacteremia after infusion of contaminated autologous bone marrow. Brown MA, et al. **Clin Infect Dis** 1996 Nov;23(5):1191-2

Ocular infection caused by three unusual marine organisms. Butt AA, et al. **Clin Infect Dis** 1997 Apr;24(4):740

Septicemia caused by Neisseria weaveri. Carlson P, et al. **Clin Infect Dis** 1997 Apr;24(4):739

Pyomyositis of the anterior tibial compartment. Cone LA, et al. **Clin Infect Dis** 1997 Jul;25(1):146-8

Capnocytophaga canimorsus sepsis complicated by myocardial infarction in two patients with normal coronary arteries. Ehrbar HU, et al. **Clin Infect Dis** 1996 Aug; 23(2):335-6

Prosthetic valve endocarditis due to Veillonella dispar:

successful medical treatment following penicillin desensitization. Houston S, et al. **Clin Infect Dis** 1997 May; 24(5):1013–4

Bacteremia due to Stenotrophomonas (Xanthomonas) maltophilia: a prospective, multicenter study of 91 episodes. Muder RR, et al. **Clin Infect Dis** 1996 Mar;22(3):508–12

Vertebral osteomyelitis due to Roseomonas species: case report and review of the evaluation of vertebral osteomyelitis. Nahass RG, et al. **Clin Infect Dis** 1995 Dec; 21(6):1474–6 (13 ref.)

Septic prepatellar bursitis caused by Stenotrophomonas (Xanthomonas) maltophilia. Papadakis KA, et al. **Clin Infect Dis** 1996 Feb;22(2):388–9

Liver abscess caused by Capnocytophaga species. Weber G, et al. **Clin Infect Dis** 1997 Jul;25(1):152–3

The role of cultures in the management of ulcerative keratitis [see comments] Levey SB, et al. **Cornea** 1997 Jul; 16(4):383–6. Comment in: Cornea 1997 Jul;16(4):381–2.

Colonization with antibiotic-resistant gram-negative organisms in a pediatric intensive care unit. Toltzis P, et al. **Crit Care Med** 1997 Mar;25(3):538–44

Bacteremia due to glucose non-fermenting gram-negative bacilli in patients with hematological neoplasias and solid tumors. Martino R, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):610–5

Diarrhea caused by a Cyanobacterium-like organism. Ebrahimzadeh A, et al. **Eur J Epidemiol** 1995 Dec; 11(6):661–4

Molecular mimicry of host structures by bacterial lipopolysaccharides and its contribution to disease. Moran AP, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1; 16(2):105–15 (94 ref.)

Measurement of virulence of aeromonads using a suckling mouse model of infection. Wong CY, et al. **FEMS Immunol Med Microbiol** 1996 Oct;15(4):233–41

The role of the capsular polysaccharide of Aeromonas salmonicida in the adherence and invasion of fish cell lines. Merino S, et al. **FEMS Microbiol Lett** 1996 Sep 1; 142(2–3):185–9

Application of a colorimetric DNA-DNA hybridization method for identification of Aeromonas genomic species, isolated from diarrheal stools. Kaznowski A. **Folia Microbiol (Praha)** 1996;41(6):505–9

Comparison of the 16S ribosomal DNA sequences from the intracellular agents of proliferative enteritis in a hamster, deer, and ostrich with the sequence of a porcine isolate of Lawsonia intracellularis. Cooper DM, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):635–9

Antibiotic susceptibility in aerobic gram-negative bacilli isolated in intensive care units in 39 French teaching hospitals (ICU study). Jarlier V, et al. **Intensive Care Med** 1996 Oct;22(10):1057–65

Tazobactam-piperacillin compared with sulbactam-ampicillin, clavulanic acid-ticarcillin, sulbactam-cefoperazone, and piperacillin for activity against beta-lactamase-producing bacteria isolated from patients with complicated urinary tract infections. Nomura S, et al. **J Chemother** 1997 Apr;9(2):89–94

Recurrent CDC group IVc-2 bacteremia in a human with AIDS. Anderson RR, et al. **J Clin Microbiol** 1997 Mar; 35(3):780–2 (15 ref.)

Identification of Aeromonas clinical isolates by restriction fragment length polymorphism of PCR-amplified 16S rRNA genes. Borrell N, et al. **J Clin Microbiol** 1997 Jul; 35(7):1671–4

Shieh medium supplemented with tobramycin for selective isolation of Flavobacterium columnare (Flexibacter columnaris) from diseased fish. Decostere A, et al. **J Clin Microbiol** 1997 Jan;35(1):322–4

Veillonella parvula bacteremia without an underlying source. Fisher RG, et al. **J Clin Microbiol** 1996 Dec;34(12):3235–6

Clinical and microbiological characteristics of Flavobacterium indologenes infections associated with indwelling devices. Hsueh PR, et al. **J Clin Microbiol** 1996 Aug;34(8):1908–13

Bacteremia caused by Arcobacter cryaerophilus 1B. Hsueh PR, et al. **J Clin Microbiol** 1997 Feb;35(2):489–91

Characterization of Aeromonas spp. isolated from humans with diarrhea, from healthy controls, and from surface water in Bangladesh. Kühn I, et al. **J Clin Microbiol** 1997 Feb;35(2):369–73

A case of peritonitis caused by Roseomonas gilardii in a patient undergoing continuous ambulatory peritoneal dialysis. Sandoe JA, et al. **J Clin Microbiol** 1997 Aug; 35(8):2150–2

Probable new species of Desulfovibrio isolated from a pyogenic liver abscess. Tee W, et al. **J Clin Microbiol** 1996 Jul;34(7):1760–4

Near-drowning-associated Aeromonas pneumonia. Ender PT, et al. **J Emerg Med** 1996 Nov-Dec;14(6):737–41

Use of random amplified polymorphic DNA for epidemiological typing of Stenotrophomonas maltophilia. Davin-Regli A, et al. **J Hosp Infect** 1996 Jan;32(1):39–50

Epidemiological typing of Stenotrophomonas maltophilia. Marty N. **J Hosp Infect** 1997 Aug;36(4):261–6 (29 ref.)

Characterization of a type IV bundle-forming pilus (SFP) from a gastroenteritis-associated strain of Aeromonas veronii biovar sobria. Kirov SM, et al. **Microb Pathog** 1996 Jul;21(1):23–34

The role of the O-antigen lipopolysaccharide on the colonization in vivo of the germfree chicken gut by Aeromonas hydrophila serogroup O:34. Merino S, et al. **Microb Pathog** 1996 Jun;20(6):325–33

In vitro virulence factors of Arcobacter butzleri strains isolated from superficial water samples. Musmanno RA, et al. **New Microbiol** 1997 Jan;20(1):63–8

Plesiomonas shigelloides and sucrose-positive Edwardsiella tarda bacteremia in a man with obstructive jaundice. Leung MJ. **Pathology** 1996 Jan;28(1):68–9

Urinary tract infection in nephrotic syndrome. Gulati S, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):237–40

Characterization of Aeromonas hydrophila: a comparative study of strains isolated from diarrheal feces and the environment. Haque QM, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):132–8

Eikenella corrodens skull infection: a case report with review of the literature. Arana E, et al. **Surg Neurol** 1997 Apr; 47(4):389–91 (9 ref.)

A biochemical protocol for the differentiation of current genomospecies of Aeromonas. Oakey HJ, et al. **Zentralbl Bakteriol** 1996 Jun;284(1):32–46

[Visceral granulomas and pericardial effusion caused by a Bartonella henselae infection] Bakker RC, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):388–90 (Eng. Abstr.) **(Dut)**

[Antibiotic sensitivity of aerobic gram-negative bacilli isolated from severe infections in 1992: results of a French multicenter study. Groupe d'Etude d'Infections à bacilles à Gram Négatif (GEIGN)] Koeck JL, et al. **Presse Med** 1996 Oct 12;25(30):1363–6 (Eng. Abstr.) **(Fre)**

[Uncommon site of Bergeyella zoohelcum. Apropos of a case] Grimault E, et al. **Rev Pneumol Clin** 1996;52(6):387–9 (Eng. Abstr.) **(Fre)**

[First isolation of Bilophila wadsworthia in otitis externa] Schumacher U, et al. **HNO** 1997 Jul;45(7):567–9 (Eng. Abstr.) **(Ger)**

[Therapy of spontaneous bacterial peritonitis] Gräter H. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):98–101 (Eng. Abstr.) **(Ger)**

[Antimicrobial activities of cefetamet against clinical isolates from urinary tract infection] Ishii Y, et al. **Jpn J Antibiot** 1996 Dec;49(12):1073–84 (Eng. Abstr.) **(Jpn)**

[Eikenella corrodens infection in relation to drug addiction (letter)] Pizarro A, et al. **An Med Interna** 1996 Jul;13(7):360 **(Spa)**

[Conjunctivitis caused by Aeromonas hydrophila (letter)] Agulla A, et al. **Enferm Infecc Microbiol Clin** 1997 Jan; 15(1):44–5 **(Spa)**

[Meningitis caused by Flavobacterium meningosepticum in an adult (letter)] Bascuñana A, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):394–5 **(Spa)**

[Endophthalmitis caused by Aeromonas sobria (letter)] Cánovas A, et al. **Enferm Infecc Microbiol Clin** 1996 Oct; 14(8):505–6 **(Spa)**

[Gram-negative bacilli isolated in a general hospital: high rate of ciprofloxacin resistance (letter)] García del Busto Remón A, et al. **Enferm Infecc Microbiol Clin** 1996 Apr; 14(4):276–7 **(Spa)**

[Evaluation of chromogenic medium CPS ID2 (bioMérieux) in urine cultures (see comments)] Navarro F, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):215–9 (Eng. Abstr.). Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):570–1. Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):571. **(Spa)**

[Cerebral abscess of otic origin caused conjointly by Proteus mirabilis and Alcaligenes faecalis (letter)] Ojeda-Vargas M, et al. **Enferm Infecc Microbiol Clin** 1995 Dec;13(10):635 **(Spa)**

[Bacteremia caused by Alcaligenes (Achromobacter) xylosoxidans. Description of 3 cases and review of the literature] Ramos JM, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):436–40 (38 ref.) (Eng. Abstr.) **(Spa)**

[Polymicrobial endocarditis in an intravenous drug addict with isolation of Eikenella corrodens (letter)] Saavedra J, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep; 14(7):454–6 (10 ref.) **(Spa)**

[Bacteremia for Aeromonas sobria in a patient with cholecystitis (letter)] Torres L, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):332 **(Spa)**

MORTALITY

Risk factors and attributable mortality associated with superinfections in neutropenic patients with cancer. Nucci M, et al. **Clin Infect Dis** 1997 Apr;24(4):575–9

PHYSIOPATHOLOGY

Delayed administration of inhaled nitric oxide preserves alveolar-capillary membrane integrity in porcine gram-negative sepsis. Bloomfield GL, et al. **Arch Surg** 1997 Jan;132(1):65–75

Gram-negative shock in rats depends on the presence of capsulated bacteria and is modified by laparotomy. Heemskerk AE, et al. **Shock** 1996 Dec;6(6):418–25

Endotoxin-related intracellular pathways: implications for therapeutic intervention. Ulevitch RJ, et al. **Shock** 1996 Jul;6(1):1–2

PREVENTION & CONTROL

Elimination of an outbreak of gram-negative bacteremia in a hemodialysis unit. Humar A, et al. **Am J Infect Control** 1996 Oct;24(5):359–63

Effects of selective digestive decontamination on lung injury and outcome: the verdict is not yet in [editorial; comment] Dematte JE, et al. **Chest** 1997 Aug;112(2):304–6. Comment on: Chest 1997 Aug;112(2):491–5.

Selective decontamination of the digestive tract: effect of cessation of routine application at an ICU. Tissot van Patot HA, et al. **Pharm World Sci** 1996 Oct;18(5):171–7

Perioperative anti-endotoxin strategies. Houdijk AP, et al. **Scand J Gastroenterol Suppl** 1997;222:93–7 (57 ref.)

SURGERY

One stage revision arthroplasty of the hip for deep gram negative infection. Raut VV, et al. **Int Orthop** 1996; 20(1):12–4

Eikenella corrodens skull infection: a case report with review of the literature. Arana E, et al. **Surg Neurol** 1997 Apr; 47(4):389–91 (9 ref.)

[Scheduled reinterventions in the treatment of acute peritonitis] Popescu I, et al. **Chirurgia (Bucur)** 1996 Jul-Aug;45(4):171–82 (Eng. Abstr.) **(Rum)**

THERAPY

Immunotherapy for sepsis. Ralston DR, et al. **Clin Chest Med** 1996 Jun;17(2):307–17 (104 ref.)

A comparison of bactericidal/permeability-increasing protein variant versus recombinant endotoxin-neutralizing protein for the treatment of Escherichia coli sepsis in rats [published erratum appears in Crit Care Med 1997 Mar;25(3):558] Stack AM, et al. **Crit Care Med** 1997 Jan; 25(1):101–5

The influence of clinical study design on cost-effectiveness projections for the treatment of gram-negative sepsis with human anti-endotoxin antibody. Linden PK, et al. **J Crit Care** 1995 Dec;10(4):154–64

The use of extracorporeal membrane oxygenation in patients with gram-negative or viral sepsis. Stewart DL, et al. **Perfusion** 1997 Mar;12(1):3–8

Novel approaches to the treatment of sepsis: lessons learned and future directions. Cross A. **Shock** 1996;6 Suppl 1:S71–4 (19 ref.)

Endotoxin-related intracellular pathways: implications for therapeutic intervention. Ulevitch RJ, et al. **Shock** 1996 Jul;6(1):1–2

[The therapy of gram-negative septicotoxic diseases with pentaglobin, an immunoglobulin with an elevated IgM content (a prospective, randomized clinical study)] Schedel I, et al. **Anesteziol Reanimatol** 1996 May-Jun;(3):4–9 (Eng. Abstr.) **(Rus)**

TRANSMISSION

Man's best friend: life threatening sepsis after minor dog bite [see comments] Mellor DJ, et al. **BMJ** 1997 Jan 11; 314(7074):129–30. Comment in: BMJ 1997 Jan 11;314(7074):88–90.

Intravenous line infection due to Ochrobactrum anthropi (CDC Group Vd) in a normal host. Gill MV, et al. **Heart Lung** 1997 Jul-Aug;26(4):335–6

Early onset neonatal septicemia caused by Aeromonas hydrophilia [letter] Gupta P, et al. **Indian Pediatr** 1996 Aug; 33(8):703–4

Capnocytophaga chorioamnionitis after oral sex. Hansen LM, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):731

Cellulitis and myositis caused by Agrobacterium radiobacter and Haemophilus parainfluenzae after influenza virus vaccination. Owensby JE, et al. **South Med J** 1997 Jul; 90(7):752–4

URINE

Known bacterial virulence factors do not explain the variation in urinary cytokine levels in patients with urosepsis. Prins JM, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31;16(3–4):283–9

VETERINARY

Experiences with different vaccines and vaccination procedures to control furunculosis in sea-reared Atlantic salmon. Lillehaug A. **Acta Vet Scand Suppl** 1996;90:57–62

Oral administration of tylosin phosphate for treatment and prevention of proliferative enteropathy in pigs. McOrist S, et al. **Am J Vet Res** 1997 Feb;58(2):136–9

Eikenella corrodens-caused botryomycosis-type pneumonia in a barbary ape (Macaca sylvanus). Brack M. **APMIS** 1997 Jun;105(6):457–62

Ornithobacterium rhinotracheale infection in turkey breeders. De Rosa M, et al. **Avian Dis** 1996 Oct-Dec;40(4):865–74

Isolation and identification of Ornithobacterium rhinotracheale from commercial broiler flocks on the Delmarva peninsula. Odor EM, et al. **Avian Dis** 1997 Jan-Mar;41(1):257–60

Concomitant Ornithobacterium rhinotracheale and Newcastle disease infection in broilers in South Africa. Travers AF. **Avian Dis** 1996 Apr-Jun;40(2):488–90

Experimental infection in turkeys and chickens with Ornithobacterium rhinotracheale. van Empel P, et al. **Avian Dis** 1996 Oct-Dec;40(4):858–64

GRAM-NEGATIVE BACTERIAL INFECTIONS

Immunization with bacterial antigens: Flavobacterium and Flexibacter infections. Bernardet JF. **Dev Biol Stand** 1997; 90:179–88 (46 ref.)

Immunization with bacterial antigens: infections with motile aeromonads. Karunasagar I, et al. **Dev Biol Stand** 1997; 90:135–41

Immunization with bacterial antigens: edwardsiellosis. Thune RL, et al. **Dev Biol Stand** 1997;90:125–34 (46 ref.)

Protective effect of lysozyme–galactomannan or lysozyme–palmitic acid conjugates against Edwardsiella tarda infection in carp, Cyprinus carpio L. Nakamura S, et al. **FEBS Lett** 1996 Apr 1;383(3):251–4

An Aeromonas salmonicida gene required for the establishment of infection in rainbow trout (Oncorhynchus mykiss). Noonan B, et al. **Gene** 1996 Oct 10;175(1–2):127–31

Identification and serotyping of Ornithobacterium rhinotracheale. van Empel P, et al. **J Clin Microbiol** 1997 Feb;35(2):418–21

Proliferative enteritis associated with Lawsonia intracellularis (ileal symbiont intracellularis) in white-tailed deer. Drolet R, et al. **J Vet Diagn Invest** 1996 Apr;8(2):250–3

Multiplex polymerase chain reaction for simultaneous detection of Lawsonia intracellularis, Serpulina hyodysenteriae, and salmonellae in porcine intestinal specimens. Elder RO, et al. **J Vet Diagn Invest** 1997 Jul; 9(3):281–6

Streptobacillus moniliformis infection in Swiss white mice. Glastonbury JR, et al. **J Vet Diagn Invest** 1996 Apr; 8(2):202–9

Epitheliocystis infection in cultured white sturgeon (Acipenser transmontanus): antigenic and ultrastructural similarities of the causative agent to the chlamydiae. Groff JM, et al. **J Vet Diagn Invest** 1996 Apr;8(2):172–80

Specific, nonradioactive detection of the NHP bacterium in Penaeus vannamei by in situ hybridization. Loy JK, et al. **J Vet Diagn Invest** 1996 Jul;8(3):324–31

Proliferative enteropathy in a foal caused by Lawsonia intracellularis-like bacterium. Williams NM, et al. **J Vet Diagn Invest** 1996 Apr;8(2):254–6

Coinfection with intracellular Desulfovibrio species and coccidia in ferrets with proliferative bowel disease. Li X, et al. **Lab Anim Sci** 1996 Oct;46(5):569–71

Development of persistent intestinal infection and excretion of Lawsonia intracellularis by piglets. Smith SH, et al. **Res Vet Sci** 1997 Jan–Feb;62(1):6–10

Diagnosis of proliferative enteritis in frozen and formalin-fixed, paraffin-embedded tissues from a hamster, horse, deer and ostrich using a Lawsonia intracellularis-specific multiplex PCR assay. Cooper DM, et al. **Vet Microbiol** 1997 Jan;54(1):47–62

Application of a modified disc diffusion technique to antimicrobial susceptibility testing of Vibrio anguillarum and Aeromonas salmonicida clinical isolates. Guérin-Faublée V, et al. **Vet Microbiol** 1996 Jul; 51(1–2):137–49

Comparison of gene probe and conventional methods for the differentiation of ovine footrot isolates of Dichelobacter nodosus. Rood JI, et al. **Vet Microbiol** 1996 Sep; 52(1–2):127–41

Thrombotic meningoencephalitis associated with Histophilus ovis infection in lambs in Europe. Cassidy JP, et al. **Vet Rec** 1997 Feb 22;140(8):193–5

Prevalence of Lawsonia intracellularis in swine herds in Taiwan. Chang WL, et al. **Vet Rec** 1997 Jul 26;141(4):103–4

Water quality parameters associated with Aeromonas spp-affected hatcheries. Ortega C, et al. **Vet Res** 1996; 27(6):553–60

Furunculosis control using a paraimmunization stimulant (Baypamun) in rainbow trout. Ortega C, et al. **Vet Res** 1996;27(6):561–8

Prevalence of antibodies to lipid A in Danish cattle. Andersen PH, et al. **Zentralbl Veterinarmed A** 1996 Jul;43(5):271–9

Computer aided assignment of motile Aeromonas strains to genospecies level by standard biochemical tests. Brunner B, et al. **Zentralbl Veterinarmed [B]** 1997 Jun;44(4):221–33

Natural cilia-associated respiratory bacillus infection in rabbits used for elaboration of hyperimmune serum against Mycoplasma sp. Orós J, et al. **Zentralbl Veterinarmed [B]** 1997 Jul;44(5):313–7

[Pilot study on the prevalence of Ornithobacterium rhinotracheale infections in food chickens in northwest Germany] Ryll M, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jul–Aug; 110(7–8):267–71 (Eng. Abstr.) **(Ger)**

GRAM-NEGATIVE CHEMOLITHOTROPHIC BACTERIA

CLASSIFICATION

Oxidation of thiosulfate by a new bacterium, Bosea thiooxidans (strain BI–42) gen. nov., sp. nov.: analysis of phylogeny based on chemotaxonomy and 16S ribosomal DNA sequencing. Das SK, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):981–7

GENETICS

Molecular phylogenetics of bacterial endosymbionts and their vestimentiferan hosts. Feldman RA, et al. **Mol Mar Biol Biotechnol** 1997 Sep;6(3):268–77

Sulfur-oxidizing symbionts have not co-evolved with their hydrothermal vent tube worm hosts: an RFLP analysis. Laue BE, et al. **Mol Mar Biol Biotechnol** 1997 Sep; 6(3):180–8

METABOLISM

Oxidative metabolism of inorganic sulfur compounds by bacteria. Kelly DP, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1–2):95–107 (51 ref.)

Emerging principles of inorganic nitrogen metabolism in Paracoccus denitrificans and related bacteria. Stouthamer AH, et al. **Antonie Van Leeuwenhoek** 1997 Feb; 71(1–2):33–41 (60 ref.)

GRAM-NEGATIVE FACULTATIVELY ANAEROBIC RODS

HACEK group endocarditis at the Riyadh Armed Forces Hospital. el Khizzi N, et al. **J Infect** 1997 Jan;34(1):69–74

CHEMISTRY

Outer membrane cytochromes of Shewanella putrefaciens MR-1: spectral analysis, and purification of the 83-kDa c-type cytochrome. Myers CR, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):307–18

DRUG EFFECTS

Antibacterial activity and pharmacokinetics of four new 7-azetidinyl fluoroquinolones. Coll R, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):274–7

Effect of modified atmosphere packaging on the TVB/TMA-producing microflora of cod fillets. Debevere J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):221–9

ENZYMOLOGY

Terminal oxidases of Azoarcus sp. BH72, a strictly respiratory diazotroph. Reinhold-Hurek B, et al. **FEBS Lett** 1997 Mar 10;404(2–3):143–7

Divergence in nitrogenases of Azoarcus spp., Proteobacteria of the beta subclass. Hurek T, et al. **J Bacteriol** 1997 Jul; 179(13):4172–8

Purification and characterization of the selenate reductase from Thauera selenatis. Schröder I, et al. **J Biol Chem** 1997 Sep 19;272(38):23765–8

GENETICS

Sensitive detection of a novel class of toluene-degrading denitrifiers, Azoarcus tolulyticus, with small-subunit rRNA primers and probes. Zhou J, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2384–90

Comparative analysis of the cya locus in enterobacteria and related gram-negative facultative anaerobes. Trotot P, et al. **Biochimie** 1996;78(4):277–87

Cloning and sequence of cymA, a gene encoding a tetraheme cytochrome c required for reduction of iron(III), fumarate, and nitrate by Shewanella putrefaciens MR-1. Myers CR, et al. **J Bacteriol** 1997 Feb;179(4):1143–52

Expression of the eicosapentaenoic acid synthesis gene cluster from Shewanella sp. in a transgenic marine cyanobacterium, Synechococcus sp. Takeyama H, et al. **Microbiology** 1997 Aug;143 (Pt 8):2725–31

ISOLATION & PURIFICATION

[Staphylococci and enteric rods in the oral cavity of children with acute lymphoblastic leukemia] Krzemiński Z, et al. **Pediatr Pol** 1996 Apr;71(4):307–11 (Eng. Abstr.) **(Pol)**

METABOLISM

Changes in the size and composition of intracellular pools of nonesterified coenzyme A and coenzyme A thioesters in aerobic and facultatively anaerobic bacteria. Chohnan S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):553–60

Anaerobic and aerobic degradation of pyridine by a newly isolated denitrifying bacterium. Rhee SK, et al. **Appl Environ Microbiol** 1997 Jul;63(7):2578–85

Sensitive detection of a novel class of toluene-degrading denitrifiers, Azoarcus tolulyticus, with small-subunit rRNA primers and probes. Zhou J, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2384–90

Biosynthesis of furan fatty acids (F-acids) by a marine bacterium, Shewanella putrefaciens. Shirasaka N, et al. **Biochim Biophys Acta** 1997 Jun 23;1346(3):253–60

Global changes in protein composition of N2-fixing-Azoarcus sp. strain BH72 upon diazosome formation. Karg T, et al. **J Bacteriol** 1996 Oct; 178(19):5748–54

GRAM-POSITIVE ASPOROGENOUS RODS

CLASSIFICATION

Endophthalmitis due to Microbacterium species: case report and review of microbacterium infections. Funke G, et al. **Clin Infect Dis** 1997 Apr;24(4):713–6 (19 ref.)

Leucobacter komagatae gen. nov., sp. nov., a new aerobic gram-positive, nonsporulating rod with 2,4-diaminobutyric acid in the cell wall. Takeuchi M, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):967–71

DRUG EFFECTS

Vancomycin-resistant Aureobacterium species cellulitis and bacteremia in a patient with acute myelogenous leukemia. Nolte FS, et al. **J Clin Microbiol** 1996 Aug;34(8):1992–4

ENZYMOLOGY

Mechanistic consequences of mutation of active site carboxylates in a retaining beta-1,4-glycanase from Cellulomonas fimi. MacLeod AM, et al. **Biochemistry** 1996 Oct 8;35(40):13165–72

Characterization of three distinct extradiol dioxygenases involved in mineralization of dibenzofuran by Terrabacter sp. strain DPO360. Schmid A, et al. **J Bacteriol** 1997 Jan; 179(1):53–62

GENETICS

Genomic organization of lactic acid bacteria. Davidson BE, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):161–83 (153 ref.)

Expression of the antimicrobial peptide carnobacteriocin B2 by a signal peptide-dependent general secretory pathway. McCormick JK, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):4095–9

Transcriptional analysis and regulation of carnobacteriocin production in Carnobacterium piscicola LV17. Saucier L, et al. **Gene** 1997 Apr 1;188(2):271–7

Characterization of a locus from Carnobacterium piscicola LV17B involved in bacteriocin production and immunity: evidence for global inducer-mediated transcriptional regulation. Quadri LE, et al. **J Bacteriol** 1997 Oct; 179(19):6163–71

GROWTH & DEVELOPMENT

Growth of the fish pathogen Renibacterium salmoninarum on different media. Bandín I, et al. **Microbiologia** 1996 Sep; 12(3):439–42

IMMUNOLOGY

Antibody response to Arcanobacterium haemolyticum infection in humans. Nyman M, et al. **J Infect Dis** 1997 Jun;175(6):1515–8

ISOLATION & PURIFICATION

PCR and probe-PCR assays to monitor broodstock Atlantic salmon (Salmo salar L.) ovarian fluid and kidney tissue for presence of DNA of the fish pathogen Renibacterium salmoninarum. Miriam A, et al. **J Clin Microbiol** 1997 Jun; 35(6):1322–6

METABOLISM

A methyl-accepting protein involved in multiple-sugar chemotaxis by Cellulomonas gelida. Hsing W, et al. **J Bacteriol** 1996 Sep;178(17):5153–8

PHYSIOLOGY

Characteristics of a nitropropanol-metabolizing bacterium isolated from the rumen. Anderson RC, et al. **Can J Microbiol** 1997 Jul;43(7):617–24

GRAM-POSITIVE BACTERIA

Evaluation of an interactive computer program to teach gram-stain interpretation. Mandel LP, et al. **Acad Med** 1996 Oct;71(10 Suppl):S100–2

Lactic acid bacteria as vaccine delivery vehicles. Wells JM, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):317–30 (51 ref.)

[Bacteriocins of lactic acid bacteria--characteristics and mode of action] Schved F. **Harefuah** 1997 Feb 2; 132(3):188–92 (48 ref.) **(Heb)**

CHEMISTRY

Development of a radioactive protein A-based assay for analysis of surface protein expression in gram-positive bacteria. Coyle TC, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2477–80

Bacterial surface structures--an update. Moran AP. **FEMS Immunol Med Microbiol** 1996 Dec 1;16(2):61–2

X-ray photoelectron spectroscopy analysis of whole cells and isolated cell walls of gram-positive bacteria: comparison with biochemical analysis. Dufrêne YF, et al. **J Bacteriol** 1997 Feb;179(4):1023–8

CLASSIFICATION

Questions gram staining classifications and interpretation [letter; comment] Stabenow J. **Am J Vet Res** 1996 Oct; 57(10):1409. Comment on: Am J Vet Res 1996 Sep;57(9):1304–7.

Microbiology terminology update: clinically significant anaerobic gram-positive and gram-negative bacteria (excluding spirochetes). Jousimies-Somer H, et al. **Clin Infect Dis** 1997 Jul;25(1):11–4

Sporomusa silvacetica sp, nov., an acetogenic bacterium isolated from aggregated forest soil. Kuhner CH, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):352–8

Phenotypic and phylogenetic description of an Italian isolate of "Microthrix parvicella". Rossetti S, et al. **J Appl Microbiol** 1997 Apr;82(4):405–10

DRUG EFFECTS

Susceptibility of gram-positive bacteria isolated from a paediatric hospital environment to antibiotics. Zembrzuska-Sadkowska E, et al. **Acta Pol Pharm** 1995 Mar-Apr;52(2):153-60

Glycopeptide resistance in gram-positive pathogens. Fraimow HS, et al. **Adv Exp Med Biol** 1995;390:81-95 (51 ref.)

Studies on the antimicrobial activity of juglans regia. Alkhawajah AM. **Am J Chin Med** 1997;25(2):175-80

Susceptibility of transient and commensal skin flora to the essential oil of Melaleuca alternifolia (tea tree oil). Hammer KA, et al. **Am J Infect Control** 1996 Jun;24(3):186-9

Pharmacodynamic properties of BAY 12-8039 on gram-positive and gram-negative organisms as demonstrated by studies of time-kill kinetics and postantibiotic effect. Boswell FJ, et al. **Antimicrob Agents Chemother** 1997 Jun;41(6):1377-9

Antimicrobial activity and spectrum of LB20304, a novel fluoronaphthyridone. Cormican MG, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):204-11

Comparative in vitro activities of trovafloxacin (CP-99,219) against 445 gram-positive isolates from patients with endocarditis and those with other bloodstream infections. Endtz HP, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):1146-9

In vitro evaluation of a novel ketolide antimicrobial agent, RU-64004. Jamjian C, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):454-9

In vitro and in vivo activities of LB10522, a new catecholic cephalosporin. Kim MY, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1825-31

Antibacterial activities of epiroprim, a new dihydrofolate reductase inhibitor, alone and in combination with dapsone. Locher HH, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1376-81

In vitro and in vivo evaluations of LB20304, a new fluoronaphthyridone. Oh JI, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1564-8

In vitro activity of RU 64004, a new ketolide antibiotic, against gram-positive bacteria. Schülin T, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1196-202

In vitro activity of the trinem sanfetrinem (GV104326) against gram-positive organisms. Singh KV, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2142-6

Evaluation of susceptibility of gram-positive and -negative bacteria to human defensins by using radial diffusion assay. Takemura H, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2280-4

In vitro activity of BAY 12-8039, a new fluoroquinolone. Woodcock JM, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):101-6

Mechanism of lantibiotic-induced pore-formation. Moll GN, et al. **Antonie Van Leeuwenhoek** 1996 Feb;69(2):185-91 (36 ref.)

Synthesis and antimicrobial activity of beta-[(2-benzimidazolyl)thio]-beta-benzoyl styrene derivatives. Ersan S, et al. **Arzneimittelforschung** 1997 Jun; 47(6):773-5

Activity of cytotoxin P4 from the venom of the cobra snake Naja nigricollis on gram-positive bacteria and eukaryotic cell lines. Möllmann U, et al. **Arzneimittelforschung** 1997 May;47(5):671-3

In vitro activity of BAY 12-8039, a new 8-methoxyquinolone. Dalhoff A, et al. **Chemotherapy** 1996 Nov-Dec;42(6):410-25

In vitro antimicrobial activity of the thiazolyl peptide antibiotic MDL 62,879 (GE2270 A). Kenny MT, et al. **Chemotherapy** 1997 Jul-Aug;43(4):254-63

In vitro activity of quinupristin/dalfopristin, RP59500, against gram-positive clinical isolates. Qadri SM, et al. **Chemotherapy** 1997 Mar-Apr;43(2):94-9

Impact of antibiotic use in animal feeding on resistance of bacterial pathogens in humans. Witte W. **Ciba Found Symp** 1997;207:61-71; discussion 71-5 (36 ref.)

Comparative in vitro activity of meropenem versus other extended-spectrum antimicrobials against randomly chosen and selected resistant clinical isolates tested in 26 North American centers. Pitkin DH, et al. **Clin Infect Dis** 1997 Feb;24 Suppl 2:S238-48

Susceptibility of corneal and conjunctival pathogens to ciprofloxacin. Knauf HP, et al. **Cornea** 1996 Jan;15(1):66-71

Comparative in vitro activity of levofloxacin and ofloxacin against gram-positive bacteria. Eliopoulos GM, et al. **Diagn Microbiol Infect Dis** 1996 May;25(1):35-41

Two investigational glycylcyclines, DMG-DMDOT and DMG-MINO. Antimicrobial activity studies against gram-positive species. Johnson DM, et al. **Diagn Microbiol Infect Dis** 1996 Jan;24(1):53-7

Antimicrobial activity of RU-66647, a new ketolide. Jones RN, et al. **Diagn Microbiol Infect Dis** 1997 Jan-Feb; 27(1-2):7-12

Medium and supplement effects on the antimicrobial activity of quinupristin/dalfopristin tested by agar dilution and Etest methods. Jones RN. **Diagn Microbiol Infect Dis** 1996 Oct;26(2):99-102

Quinupristin-dalfopristin [see comments] Bryson HM, et al. **Drugs** 1996 Sep;52(3):406-15 (62 ref.). Comment in: Drugs 1996 Nov;52(5):795.

Antibacterial activity of quinupristin/dalfopristin. Rationale for clinical use. Finch RG. **Drugs** 1996;51 Suppl 1:31-7 (41 ref.)

Community acquired bacterial infections and their antimicrobial susceptibility in Nairobi, Kenya. Malonza IM, et al. **East Afr Med J** 1997 Mar;74(3):166-70

Pattern of bacterial infections and antimicrobial susceptibility at the Kenyatta National Hospital, Nairobi, Kenya. Omari MA, et al. **East Afr Med J** 1997 Mar;74(3):134-7

Characterization and ion channel activities of novel antibacterial proteins from the skin mucosa of carp (Cyprinus carpio). Lemaître C, et al. **Eur J Biochem** 1996 Aug 15;240(1):143-9

In vitro activity of an orally administered streptogramin (RPR 106,972) compared to quinupristin/dalfopristin and erythromycin. Barry AL, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):155-8

Antibacterial activity of trovafloxacin against gram-positive blood culture isolates from nosocomial infections. Qadri SM, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug; 15(8):694-6

Hydrophobicity, hydrophobic moment and angle subtended by charged residues modulate antibacterial and haemolytic activity of amphipathic helical peptides. Dathe M, et al. **FEBS Lett** 1997 Feb 17;403(2):208-12

Antibacterial and hemolytic activities of linenscin OC2, a hydrophobic substance produced by Brevibacterium linens OC2. Boucabeille C, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):295-301

Gramicidin S is active against both gram-positive and gram-negative bacteria. Kondejewski LH, et al. **Int J Pept Protein Res** 1996 Jun;47(6):460-6

Novel C-2 substituted carbapenem derivatives. Part II. Synthesis and structure-activity relationships of isoxazolin-2-yl, isoxazolidin-2-yl and 2-pyrazolin-2-yl carbapenems generated using 1,3-dipolar cycloaddition chemistry. Burton G, et al. **J Antibiot (Tokyo)** 1996 Dec; 49(12):1266-74

Synthesis and biological activity of quaternary ammoniopropenylcephalosporins with hydroxylated alicyclic or aliphatic amines. Lee JY, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1286-9

The mode of antibacterial action of the novel agent ZM240304 (D-arabino-2,3,4-tris(4-chlorobenzyl) pentane-1,5-diamine). Barrett-Bee K, et al. **J Antimicrob Chemother** 1996 Oct;38(4):605-14

Bactericidal activity, post antibiotic effect and modified controlled effective regrowth time of meropenem at high concentrations. Bowker KE, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1055-60

In-vitro and in-vivo activities of DW-116, a new fluoroquinolone. Choi KH, et al. **J Antimicrob Chemother** 1997 Apr;39(4):509-14

Antibacterial activity of trovafloxacin against nosocomial Gram-positive and Gram-negative isolates. Cunha BA, et al. **J Antimicrob Chemother** 1997 Jun;39 Suppl B:29-34

In-vitro activity of purpuromycin and MDL 63,604 against microorganisms that cause vaginitis and vaginosis. Goldstein BP, et al. **J Antimicrob Chemother** 1995 Dec; 36(6):1061-5

Antimicrobial activity of cecropins. Moore AJ, et al. **J Antimicrob Chemother** 1996 Jun;37(6):1077-89

The in-vitro activity of trovafloxacin, a new fluoroquinolone, against Gram-positive bacteria. Sefton AM, et al. **J Antimicrob Chemother** 1997 Jun;39 Suppl B:57-62

Comparative in-vitro activities of RP59500 (quinupristin/dalfopristin), CL 329,998, CL 331,002, trovafloxacin, clinafloxacin, teicoplanin and vancomycin against Gram-positive bacteria. Shonekan D, et al. **J Antimicrob Chemother** 1997 Mar;39(3):405-9

Premafloxacin: a projected veterinary use fluoro-quinolone with significant activity against multi-resistant gram-positive human pathogens [letter] Zerva L, et al. **J Antimicrob Chemother** 1996 Oct;38(4):742-4

Effects of physico-chemical factors influencing tyramine production by Carnobacterium divergens. Masson F, et al. **J Appl Microbiol** 1997 Jul;83(1):36-42

Antibacterial activities of grepafloxacin, ciprofloxacin, ofloxacin and fleroxacin. Barry AL, et al. **J Chemother** 1997 Feb;9(1):9-16

Crystal structure and characterization of the bismuth(III) compound with quinolone family member (ciprofloxacin). Antibacterial study. Turel I, et al. **J Inorg Biochem** 1997 Jun;66(4):241-5

Antimicrobial activity of electrochemical silver ions in nonionic surfactant solutions and in model dispersions. Scalzo M, et al. **J Pharm Pharmacol** 1996 Jan;48(1):60-3

Minimum inhibitory concentrations of selected antimicrobial agents against bacteria isolated from 1-14-day-old broiler chicks. Klein LK, et al. **J Vet Diagn Invest** 1996 Oct; 8(4):494-5

Microbiologic activity of the newer macrolide antibiotics. McCracken GH Jr. **Pediatr Infect Dis J** 1997 Apr; 16(4):432-7 (21 ref.)

Susceptibility testing of bacteria and fungi. Report from "the Norwegian Working Group on Antibiotics". Bergan T, et al. **Scand J Infect Dis Suppl** 1997;103:1-36

[The appearance of ciprofloxacin resistance in the microbial strains isolated from gynecologic patients] Shopova E. **Akush Ginekol (Sofiia)** 1997;36(1):14-6 (Eng. Abstr.) **(Bul)**

[In vitro antibacterial activity of a new fluoroquinolone, sparfloxacin, against nosocomial bacteria, and concordance curve] Soussy CJ, et al. **Pathol Biol (Paris)** 1996 Apr; 44(4):241-8 (Eng. Abstr.) **(Fre)**

[Antimicrobial activities of tosufloxacin against recently obtained clinical isolates] Ishihara R, et al. **Jpn J Antibiot** 1996 Jul;49(7):715-42 (Eng. Abstr.) **(Jpn)**

[The possibility of drug design of quinolones effective for multiresistant gram-positive pathogens] Hayakawa I. **Nippon Rinsho** 1997 May;55(5):1266-71 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Possibility of drug design of beta-lactam antibiotics effective for multiresistant gram-positive pathogens] Okonogi K, et al. **Nippon Rinsho** 1997 May;55(5):1261-5 (11 ref.) (Eng. Abstr.) **(Jpn)**

[In vitro susceptibility testing of 446 clinical isolates of gram-positive bacteria to new quinolones, carbapenems and cephalosporins] Cereda RF, et al. **Rev Assoc Med Bras** 1996 Jul-Sep;42(3):130-4 (Eng. Abstr.) **(Por)**

[Lytic action of lysoamidase from Xanthomonas sp. correlates with the presence of the target ribitol teichoic acids in the cell wall of gram-positive bacteria] Kulaev IS, et al. **Mikrobiologiia** 1996 May-Jun;65(3):326-32 (Eng. Abstr.) **(Rus)**

[Characterization of isolates of Paenibacillus larvae with biochemical type and oxytetracycline resistance] Alippi AM. **Rev Argent Microbiol** 1996 Oct-Dec;28(4):197-203 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Isolation of O-demethylase, an ether-cleaving enzyme system of the homoacetogenic strain MC. Kaufmann F, et al. **Arch Microbiol** 1997 Aug;168(2):136-42

Structure and evolution of ribonuclease P RNA in Gram-positive bacteria. Haas ES, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4775-82

GENETICS

Barriers to application of genetically modified lactic acid bacteria. Verrips CT, et al. **Antonie Van Leeuwenhoek** 1996 Oct;70(2-4):299-316 (44 ref.)

A simplified PCR-based method for the detection of Renibacterium salmoninarum utilizing preparations of rainbow trout (Oncorhynchus mykiss, Walbaum) lymphocytes. McIntosh D, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3929-32

Gram-positive commensal bacteria for mucosal vaccine delivery. Fischetti VA, et al. **Curr Opin Biotechnol** 1996 Dec;7(6):659-66 (95 ref.)

Distribution, diversity and evolution of the bacterial mercury resistance (mer) operon. Osborn AM, et al. **FEMS Microbiol Rev** 1997 Apr;19(4):239-62 (173 ref.)

Plasmid vectors for gram-positive bacteria switching from high to low copy number. Renault P, et al. **Gene** 1996 Dec 12;183(1-2):175-82

Beta-Lactam antibiotic resistance in gram-positive bacterial pathogens of the upper respiratory tract: a brief overview of mechanisms. Tomasz A, et al. **Microb Drug Resist** 1995 Summer;1(2):103-9 (30 ref.)

Use of an excision reporter plasmid to study the intracellular mobility of the conjugative transposon Tn916 in gram-positive bacteria. Celli J, et al. **Microbiology** 1997 Apr;143 (Pt 4):1253-61

Streptomyces akiyoshiensis differs from other gram-positive bacteria in the organization of a core biosynthetic pathway gene for aspartate family amino acids. Le Y, et al. **Microbiology** 1996 Apr;142 (Pt 4):791-8

Characterization of genes for the biosynthesis of the compatible solute ectoine from Marinococcus halophilus and osmoregulated expression in Escherichia coli. Louis P, et al. **Microbiology** 1997 Apr;143 (Pt 4):1141-9

Molecular biological evidence for the occurrence of uncultured members of the actinomycete line of descent in different environments and geographical locations. Rheims H, et al. **Microbiology** 1996 Oct;142 (Pt 10):2863-70

Pathogenicity islands of virulent bacteria: structure, function and impact on microbial evolution. Hacker J, et al. **Mol Microbiol** 1997 Mar;23(6):1089-97 (61 ref.)

Characterization of the plasmid encoded virulence region pat-1 of phytopathogenic Clavibacter michiganensis subsp. michiganensis. Dreier J, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):195-206

Leader peptides of inducible chloramphenicol resistance genes from gram-positive and gram-negative bacteria bind to yeast and Archaea large subunit rRNA. Harrod R, et al. **Nucleic Acids Res** 1997 May 1;25(9):1720-6

Characterization of six linked open reading frames necessary for pIP501-mediated conjugation. Wang A, et al. **Plasmid** 1995 Nov;34(3):206-10

Specific cleavage of chromosomal and plasmid DNA strands in gram-positive and gram-negative bacteria can be detected with nucleotide resolution. Zechner EL, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7435-40

Selection and fitness in bacteriocin-producing bacteria. Dykes GA, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):683-7

GROWTH & DEVELOPMENT

Bactericidal activity, post antibiotic effect and modified controlled effective regrowth time of meropenem at high concentrations. Bowker KE, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1055-60

The effects of agar concentration on the growth and

morphology of submerged colonies of motile and non-motile bacteria. Mitchell AJ, et al. **J Appl Microbiol** 1997 Jul;83(1):76–84

Use of the isolator 1.5 microbial tube for culture of synovial fluid from patients with septic arthritis. Yagupsky P, et al. **J Clin Microbiol** 1997 Sep;35(9):2410–2

Killer toxins of certain yeast strains have potential growth inhibitory activity on gram-positive pathogenic bacteria. Izgü F, et al. **Microbios** 1997;89(358):15–22

IMMUNOLOGY

Gram-positive commensal bacteria for mucosal vaccine delivery. Fischetti VA, et al. **Curr Opin Biotechnol** 1996 Dec;7(6):659–66 (95 ref.)

ISOLATION & PURIFICATION

Investigation of normal bacterial flora in the upper respiratory tract. Tanaka I, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:44–50

Microbiologic factors and visual outcome in the endophthalmitis vitrectomy study [see comments] **Am J Ophthalmol** 1996 Dec;122(6):830–46. Comment in: Am J Ophthalmol 1997 Jul;124(1):127–30.

Isolation and characterization of two new homoacetogenic hydrogen-utilizing bacteria from the human intestinal tract that are closely related to Clostridium coccoides. Kamlage B, et al. **Appl Environ Microbiol** 1997 May;63(5):1732–8

A simplified PCR-based method for the detection of Renibacterium salmoninarum utilizing preparations of rainbow trout (Oncorhynchus mykiss, Walbaum) lymphocytes. McIntosh D, et al. **Appl Environ Microbiol** 1996 Nov;62(11):3929–32

Cultivation of aerobic chemoorganotrophic proteobacteria and gram-positive bacteria from a hot spring microbial mat. Nold SC, et al. **Appl Environ Microbiol** 1996 Nov; 62(11):3917–21

Bacteriology of lacrimal duct obstruction in adults. Hartikainen J, et al. **Br J Ophthalmol** 1997 Jan;81(1):37–40

Bacterial endophthalmitis following extracapsular cataract extraction: recommendations for early detection. Lam SR, et al. **Can J Ophthalmol** 1997 Aug;32(5):311–4

Does pyuria indicate infection in asymptomatic dialysis patients? Eisinger RP, et al. **Clin Nephrol** 1997 Jan; 47(1):50–1

Pathogens responsible for concurrent sinusitis and pneumonia in intensive care unit patients [letter] Bert F, et al. **Infection** 1996 Jan–Feb;24(1):52–3

Bacterial flora of the nasal cavity in laryngectomized patients. Cvetnić V, et al. **Infection** 1996 Jan–Feb;24(1):26–8

Isolation and characterization of bacteriocin-producing lactic acid bacteria from ready-to-eat food products. Kelly WJ, et al. **Int J Food Microbiol** 1996 Dec;33(2–3):209–18

Effect of high pressure on the reduction of microbial populations in vegetables. Arroyo G, et al. **J Appl Microbiol** 1997 Jun;82(6):735–42

Phenotypic and phylogenetic description of an Italian isolate of "Microthrix parvicella". Rossetti S, et al. **J Appl Microbiol** 1997 Apr;82(4):405–10

The use of kidney biopsy of broodstock steelhead trout (Oncorhyncus mykiss) to determine the status of bacterial kidney disease infection. White MR, et al. **J Vet Diagn Invest** 1996 Oct;8(4):519–22

Diagnosing bacteremia at a Danish hospital using one early large blood volume for culture. Arendrup M, et al. **Scand J Infect Dis** 1996;28(6):609–14

Spondylodiscitis caused by Tropheryma whippelii. Altwegg M, et al. **Schweiz Med Wochenschr** 1996 Aug 31; 126(35):1495–9

Bacterial isolates from plaque and from blood during and after routine dental procedures in dogs. Nieves MA, et al. **Vet Surg** 1997 Jan–Feb;26(1):26–32

[Intravaginal bacterial flora and clinical significance of granulocyte elastase and pH determination] Chimura T. **Jpn J Antibiot** 1997 May;50(5):474–8 (Eng. Abstr.) **(Jpn)**

[Bacteria isolated from surgical infections and their susceptibilities to antimicrobial agents. Special references to bacteria isolated between July 1995 and June 1996] Shinagawa N, et al. **Jpn J Antibiot** 1997 Feb;50(2):143–77 (Eng. Abstr.) **(Jpn)**

[Cerebral infarction due to bacterial emboli associated with methamphetamine abuse] Imanishi M, et al. **No To Shinkei** 1997 Jun;49(6):537–40 (Eng. Abstr.) **(Jpn)**

[Neonatal meningitis: study of 56 cases] Olmedo Díaz I, et al. **An Esp Pediatr** 1997 Feb;46(2):189–94 (Eng. Abstr.) **(Spa)**

[Evaluation of chromogenic medium CPS ID2 (bioMérieux) in urine cultures (see comments)] Navarro F, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):215–9 (Eng. Abstr.). Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):570–1. Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):571. **(Spa)**

[Characterization of isolates of Paenibacillus larvae with biochemical type and oxytetracycline resistance] Alippi AM. **Rev Argent Microbiol** 1996 Oct–Dec;28(4):197–203 (Eng. Abstr.) **(Spa)**

METABOLISM

Potent bactericidal activity towards gram-positive bacteria of mammalian group II phospholipase A2 mobilized in inflammatory fluids. Madsen LM, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:250–2

Biopreservation by lactic acid bacteria. Stiles ME. **Antonie Van Leeuwenhoek** 1996 Oct;70(2–4):331–45 (132 ref.)

Purification and amino acid sequences of piscicocins V1a and V1b, two class IIa bacteriocins secreted by Carnobacterium piscicola V1 that display significantly different levels of specific inhibitory activity. Bhugaloo-Vial P, et al. **Appl Environ Microbiol** 1996 Dec;62(12):4410–6

Competition for cellobiose among three predominant ruminal cellulolytic bacteria under substrate-excess and substrate-limited conditions. Shi Y, et al. **Appl Environ Microbiol** 1997 Feb;63(2):743–8

Stoichiometry of oxygen consumption and sugar, organic acid and amino acid utilization in salivary sediment and pure cultures of oral bacteria. Traudt M, et al. **Arch Oral Biol** 1996 Oct;41(10):965–78

Medium and supplement effects on the antimicrobial activity of quinupristin/dalfopristin tested by agar dilution and Etest methods. Jones RN. **Diagn Microbiol Infect Dis** 1996 Oct;26(2):99–102

7 alpha-dehydroxylating bacteria enhance deoxycholic acid input and cholesterol saturation of bile in patients with gallstones. Berr F, et al. **Gastroenterology** 1996 Dec; 111(6):1611–20

Bacterial resistances to toxic metal ions--a review. Silver S. **Gene** 1996 Nov 7;179(1):9–19 (70 ref.)

Isolation and characterization of Desulfitobacterium frappieri sp. nov., an anaerobic bacterium which reductively dechlorinates pentachlorophenol to 3-chlorophenol. Bouchard B, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):1010–5

The riminophenazines, clofazimine and B669, inhibit potassium transport in gram-positive bacteria by a lysophospholipid-dependent mechanism. De Bruyn EE, et al. **J Antimicrob Chemother** 1996 Sep;38(3):349–62

Effects of physico-chemical factors influencing tyramine production by Carnobacterium divergens. Masson F, et al. **J Appl Microbiol** 1997 Jul;83(1):36–42

Streptomyces akiyoshiensis differs from other gram-positive bacteria in the organization of a core biosynthetic pathway gene for aspartate family amino acids. Le Y, et al. **Microbiology** 1996 Apr;142 (Pt 4):791–8

Catabolite repression and inducer control in Gram-positive bacteria. Saier MH Jr, et al. **Microbiology** 1996 Feb;142 (Pt 2):217–30 (103 ref.)

Quorum sensing by peptide pheromones and two-component signal-transduction systems in Gram-positive bacteria. Kleerebezem M, et al. **Mol Microbiol** 1997 Jun; 24(5):895–904 (38 ref.)

Carbon metabolism and its regulation in Streptomyces and other high GC gram-positive bacteria. Paulsen IT. **Res Microbiol** 1996 Jul–Sep;147(6–7):535–41 (42 ref.)

The fructose diphosphate/phosphate regulation of carbohydrate metabolism in low G + C gram-positive anaerobes. Russell JB, et al. **Res Microbiol** 1996 Jul–Sep; 147(6–7):528–35 (82 ref.)

PATHOGENICITY

Recent trends in clinical isolates from paranasal sinusitis. Suzuki K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:51–5

Characterization of the plasmid encoded virulence region pat-1 of phytopathogenic Clavibacter michiganensis subsp. michiganensis. Dreier J, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):195–206

[New gram-positive opportunistic bacteria: pathogenic role and treatment] Philippon A, et al. **Presse Med** 1997 May 17;26(16):778–86 (31 ref.) (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

The biochemistry and genetics of capsular polysaccharide production in bacteria. Roberts IS. **Annu Rev Microbiol** 1996;50:285–315 (145 ref.)

Cytokine induction by bacteria: beyond lipopolysaccharide. Henderson B, et al. **Cytokine** 1996 Apr;8(4):269–82 (160 ref.)

Coexistence of CD14-dependent and independent pathways for stimulation of human monocytes by gram-positive bacteria. Cauwels A, et al. **Infect Immun** 1997 Aug; 65(8):3255–60

Interactions between epithelial cells and bacteria, normal and pathogenic [letter; comment] Umesaki Y, et al. **Science** 1997 May 9;276(5314):964–5. Comment on: Science 1996 Sep 6;273(5280):1380–3.

[Bacterial translocation in acute pancreatitis. Experimental study in rats] de Souza L, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul–Aug; 51(4):116–20 (Eng. Abstr.) **(Por)**

[Bacterial translocation in a model of small intestine autotransplant in dogs] López F, et al. **Rev Med Chil** 1995 Dec;123(12):1453–60 (Eng. Abstr.) **(Spa)**

GRAM-POSITIVE BACTERIAL INFECTIONS

Epiglottitis diagnosed within hours of birth. Ducic Y, et al. **Am J Otolaryngol** 1997 May–Jun;18(3):224–5

Bilateral anaerobic empyemas complicating infectious mononucleosis. Kopec SE, et al. **Chest** 1997 Sep; 112(3):833–5

Chronic Propionibacterium acnes endophthalmitis as a cause of intermediate uveitis. Ormerod LD, et al. **Ocul Immunol Inflamm** 1997 Mar;5(1):67–8

[Emphysematous cystitis: a case report] Nakayama T, et al. **Hinyokika Kiyo** 1996 May;42(5):381–3 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Rupture of the aortic arch due to bacterial aortitis--a case report of a patient undergoing successful surgical therapy] Sudo Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2221–4 (Eng. Abstr.) **(Jpn)**

[Bilateral abscess of cavernous bodies] Fernández Goméz JM, et al. **Actas Urol Esp** 1997 Jan;21(1):75–7 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

A case of secondary Sjögren's syndrome with a swollen thigh. Deodhar AA, et al. **Ann Rheum Dis** 1997 Mar; 56(3):162–4

Bacteriological studies of dental caries in Ile-Ife, Nigeria. Adetunji OF, et al. **Cent Afr J Med** 1996 Aug;42(8):249–52

Pyomyositis due to Eubacterium lentum and Streptococcus constellatus from a periodontal source. Palomino-Nicás J, et al. **Clin Infect Dis** 1996 Jan;22(1):176–8

Clinical and bacteriological characteristics of infective endocarditis in the elderly. Selton-Suty C, et al. **Heart** 1997 Mar;77(3):260–3

Evidence of the proinflammatory role of Enterococcus faecalis in polymicrobial peritonitis in rats. Montravers P, et al. **Infect Immun** 1997 Jan;65(1):144–9

Pyogenic vertebral osteomyelitis after acute bacterial prostatitis: a case report. Soda T, et al. **Int J Urol** 1996 Sep;3(5):402–4; discussion 405

Septic shock: pathogenesis and treatment [see comments] Bansal T, et al. **J Assoc Physicians India** 1996 Jun; 44(6):407–14 (51 ref.). Comment in: J Assoc Physicians India 1996 Jun;44(6):371–4.

Ruptured splenic abscess as cause of pneumoperitoneum. Puhakka KB, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):273–4 (6 ref.)

DIAGNOSIS

Diagnosis and treatment of bacteremia and intravascular catheter infections. Bullard KM, et al. **Am J Surg** 1996 Dec;172(6A):13S–19S (51 ref.)

Unsuspected infections crystalline keratopathy masquerading as corneal graft rejection [letter] Morrison DA, et al. **Br J Ophthalmol** 1997 Jul;81(7):608

Bacterial endophthalmitis following extracapsular cataract extraction: recommendations for early detection. Lam SR, et al. **Can J Ophthalmol** 1997 Aug;32(5):311–4

Intervertebral diskitis caused by Propionibacterium acnes: a report of four cases. Chia JK, et al. **Clin Infect Dis** 1996 Sep;23(3):643–4

Superinfection with Enterococcus faecalis during quinupristin/dalfopristin therapy. Chow JW, et al. **Clin Infect Dis** 1997 Jan;24(1):91–2

Enterococcal spondylodiskitis [letter; comment] Gavaldà J, et al. **Clin Infect Dis** 1996 Jun;22(6):1135. Comment on: Clin Infect Dis 1995 Sep;21(3):516–22.

Does pyuria indicate infection in asymptomatic dialysis patients? Eisinger RP, et al. **Clin Nephrol** 1997 Jan; 47(1):50–1

Lactobacillus casei infection in an AIDS patient [letter] Abgrall S, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb; 16(2):180–2 (7 ref.)

Oerskovia turbata and Comamonas acidovorans bacteremia in a patient with AIDS [letter] Lair MI, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):424–6

Serological investigation of enterococcal infections using western blot. Sulaiman A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):826–9

Enterococcus faecium in hospitals. Wade JJ. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):113–9 (73 ref.)

Recurrent septicemias with Enterococcus faecium. Elsner HA, et al. **Infection** 1997 Mar–Apr;25(2):127–8

Aerococcus-like organisms: use of antibiograms for diagnostic and taxonomic purposes. Christensen JJ, et al. **J Antimicrob Chemother** 1996 Aug;38(2):253–8

Resistant enterococci--mechanisms, laboratory detection and control in hospitals. Wade JJ, et al. **J Clin Pathol** 1996 Sep;49(9):700–3

Oral botryomycosis: a case report. Devaiah AK, et al. **J Laryngol Otol** 1997 Jan;111(1):77–9 (15 ref.)

Screening for bacterial vaginosis and cervicitis aimed at preventing premature delivery. Begum S, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):103–10

Micrococcus luteus as a cause of recurrent bacteremia. von Eiff C, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):711–3

The diagnostic value of Gram stain for initial identification of the etiologic agent of peritonitis in CAPD patients. Bezerra DA, et al. **Perit Dial Int** 1997 May–Jun; 17(3):269–72

Peptostreptococcal myonecrosis of extraperitoneal origin--a life-threatening complication of pelvic ring disruption. Losanoff J, et al. **Swiss Surg** 1997;3(4):185–7

DRUG THERAPY

Glycopeptide resistance in gram-positive pathogens.

Fraimow HS, et al. **Adv Exp Med Biol** 1995;390:81-95 (51 ref.)

Limiting vancomycin use to combat vancomycin-resistant Enterococcus faecium. Belliveau PP, et al. **Am J Health Syst Pharm** 1996 Jul 1;53(13):1570-5

Vancomycin-resistant Enterococcus in the Singapore National Burns Centre: a case report. Ang SW, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):270-2

Results of a randomized trial of granulocyte colony-stimulating factor in patients with infection and severe granulocytopenia. Avilés A, et al. **Anticancer Drugs** 1996 Jun;7(4):392-7

Continuous infusion versus intermittent administration of ceftazidime in critically ill patients with suspected gram-negative infections. Benko AS, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):691-5

Treatment of experimental endocarditis due to Enterococcus faecalis using once-daily dosing regimen of gentamicin plus simulated profiles of ampicillin in human serum. Gavaldà J, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):173-8

Efficacy of vancomycin and teicoplanin alone and in combination with streptomycin in experimental, low-level vancomycin-resistant, VanB-type Enterococcus faecalis endocarditis. Nicolau DP, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):55-60

Once-versus thrice-daily netilmicin combined with amoxicillin, penicillin, or vancomycin against Enterococcus faecalis in a pharmacodynamic in vitro model. Schwank S, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2258-61

Effect of a vancomycin restriction policy on ordering practices during an outbreak of vancomycin-resistant Enterococcus faecium. Anglim AM, et al. **Arch Intern Med** 1997 May 26;157(10):1132-6

Treatment of vancomycin-resistant Enterococcus faecium infections. Lai KK. **Arch Intern Med** 1996 Dec 9-23; 156(22):2579-84

Do low vancomycine serum levels predict failures of vancomycine therapy in neutropenic cancer patients? Netriová J, et al. **Bratisl Lek Listy** 1996 Nov;97(11):680-3

Effect of antibiotic treatment on vegetation size and complication rate in infective endocarditis. Rohmann S, et al. **Clin Cardiol** 1997 Feb;20(2):132-40

Use of bacitracin therapy for infection due to vancomycin-resistant Enterococcus faecium. Chia JK, et al. **Clin Infect Dis** 1995 Dec;21(6):1520

Emergence of increased resistance to quinupristin/dalfopristin during therapy for Enterococcus faecium bacteremia. Chow JW, et al. **Clin Infect Dis** 1997 Jan;24(1):90-1

Prophylaxis with fluoroquinolones for bacterial infections in neutropenic patients: a meta-analysis. Cruciani M, et al. **Clin Infect Dis** 1996 Oct;23(4):795-805

Therapy with RP 59500 (quinupristin/dalfopristin) for prosthetic valve endocarditis due to enterococci with VanA/VanB resistance patterns. Furlong WB, et al. **Clin Infect Dis** 1997 Jul;25(1):163-4

Enterococci acquire new kinds of resistance. Leclercq R. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S80-4 (45 ref.)

Reports on surveillance of antimicrobial resistance in individual countries. Rahal K, et al. **Clin Infect Dis** 1997 Jan;24 Suppl 1:S169-75

Risk factors associated with vancomycin-resistant Enterococcus faecium infection or colonization in 145 matched case patients and control patients. Tornieporth NG, et al. **Clin Infect Dis** 1996 Oct;23(4):767-72

Gemella morbillorum as a cause of septic shock [see comments] Vasishtha S, et al. **Clin Infect Dis** 1996 Jun; 22(6):1084-6. Comment in: Clin Infect Dis 1997 Feb;24(2):284-5.

Use of oral cephalosporins in infants and children. Barnett ED, et al. **Curr Clin Top Infect Dis** 1997;17:316-33 (70 ref.)

Susceptibility of ciprofloxacin-resistant staphylococci and enterococci to trovafloxacin. Bonilla HF, et al. **Diagn Microbiol Infect Dis** 1996 Sep;26(1):17-21

Activity of the quinupristin-dalfopristin combination (RP-59500; Synercid) tested against vancomycin-resistant Enterococcus species [letter; comment] Cormican MG, et al. **Diagn Microbiol Infect Dis** 1996 Jan;24(1):59-60. Comment on: Diagn Microbiol Infect Dis 1995 Jan;21(1):47-50.

Quinupristin-dalfopristin [see comments] Bryson HM, et al. **Drugs** 1996 Sep;52(3):406-15 (62 ref.). Comment in: Drugs 1996 Nov;52(5):795.

Epidemiology and control of multiresistant enterococci. Leclercq R. **Drugs** 1996;52 Suppl 2:47-9 (13 ref.)

A practical guide to the management of complicated urinary tract infection. Nicolle LE. **Drugs** 1997 Apr;53(4):583-92 (39 ref.)

Fosfomycin tromethamine. A review of its antibacterial activity, pharmacokinetic properties and therapeutic efficacy as a single-dose oral treatment for acute uncomplicated lower urinary tract infections. Patel SS, et al. **Drugs** 1997 Apr;53(4):637-56 (106 ref.)

Vancomycin-resistant enterococci outside the health-care setting: prevalence, sources, and public health implications. McDonald LC, et al. **Emerg Infect Dis** 1997 Jul-Sep; 3(3):311-7 (52 ref.)

Early identification of neutropenic patients at risk of grampositive bacteraemia and the impact of empirical administration of vancomycin. Dompeling EC, et al. **Eur J Cancer** 1996 Jul;32A(8):1332-9

A review of teicoplanin in the treatment of serious neonatal infections. Fanos V, et al. **Eur J Pediatr** 1997 Jun; 156(6):423-7 (33 ref.)

Vancomycin-resistant enterococcus. Detection, epidemiology, and control measures. Boyce JM. **Infect Dis Clin North Am** 1997 Jun;11(2):367-84 (95 ref.)

Current management of acne [editorial] O'Loughlin S. **Ir Med J** 1997 Apr-May;90(3):92-3

Successful use of tetracycline as therapy of an immunocompromised patient with septicaemia caused by a vancomycin-resistant enterococcus [letter] Howe RA, et al. **J Antimicrob Chemother** 1997 Jul;40(1):144-5

Influence of gentamicin dosing interval on the efficacy of penicillin-containing regimens in experimental Enterococcus faecalis endocarditis. Marangos MN, et al. **J Antimicrob Chemother** 1997 Apr;39(4):519-22

Therapeutic effects of cefozopran against experimental mixed urinary tract infection with Enterococcus faecalis and Pseudomonas aeruginosa in mice. Tsuchimori N, et al. **J Antimicrob Chemother** 1997 Mar;39(3):423-5

Detection of vancomycin-resistant enterococci in fecal samples by PCR. Satake S, et al. **J Clin Microbiol** 1997 Sep;35(9):2325-30

Importance of using relapse studies or tests for detection of antibiotic resistance before considering that a treatment for multidrug-resistant enterococcal experimental endocarditis is effective [letter; comment] Caron F. **J Infect Dis** 1997 Jan;175(1):232-3. Comment on: J Infect Dis 1996 Apr;173(4):909-13.

Sensitivity of Propionibacterium acnes isolated from acne patients: comparative study of antimicrobial agents. Nishijima S, et al. **J Int Med Res** 1996 Nov-Dec; 24(6):473-7

Nine episodes of CPD-associated peritonitis with vancomycin resistant enterococci. Troidle L, et al. **Kidney Int** 1996 Oct;50(4):1368-72

Successful treatment of persistent bacteremia due to vancomycin-resistant, ampicillin-resistant Enterococcus faecium. Mekonen ET, et al. **Microb Drug Resist** 1995 Fall; 1(3):249-53

Quinupristin/dalfopristin (RP 59500) therapy for vancomycin-resistant Enterococcus faecium aortic graft infection: case report. Sahgal VS, et al. **Microb Drug Resist** 1995 Fall;1(3):245-7

Vancomycin-resistant Enterococcus faecium infections in the ICU and quinupristin/dalfopristin. Zervos M. **New Horiz** 1996 Aug;4(3):385-92 (38 ref.)

Infections due to drug-resistant pneumococci, enterococci, and Mycobacterium tuberculosis. English BK, et al. **Pediatr Ann** 1996 Sep;25(9):502-10

Empirical treatment of fever in neutropenic children: the role of the carbapenems. International Antimicrobial Therapy Cooperative Group of the European Organisation for Research and Treatment of Cancer and the Gimema Infection Program. Cometta A, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):744-8 (37 ref.)

Teicoplanin pharmacokinetics in pediatric patients. Dufort G, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):494-8

Treatment in PD patients of peritonitis caused by gram-positive organisms with single daily dose of antibiotics [see comments] Vas S, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):91-4. Comment in: Perit Dial Int 1997 Jan-Feb;17(1):11-2.

Vancomycin-resistant enterococci. Palmer SM, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):819-29 (72 ref.)

Continuous infusion of methylene blue for septic shock. Brown G, et al. **Postgrad Med J** 1996 Oct;72(852):612-4

First documented isolation of vancomycin-resistant Enterococcus faecium in Sweden. Melhus A, et al. **Scand J Infect Dis** 1996;28(2):191-3 (23 ref.)

[Vancomycin-resistant enterococci . Work Group Hospital Infection Epidemiology] Endtz HP, et al. **Ned Tijdschr Geneeskd** 1997 Jan 11;141(2):108-9 (Eng. Abstr.) **(Dut)**

[Vancomycin resistant enterococci in Austria (see comments)] Allerberger F, et al. **Wien Klin Wochenschr** 1997 May 9;109(9):312-20 (Eng. Abstr.). Comment in: Wien Klin Wochenschr 1997 May 9;109(9):293-300. **(Ger)**

[Glycopeptide resistant enterococci. Occurrence, distribution, resistance transmission, significance (editorial; comment)] Klare I, et al. **Wien Klin Wochenschr** 1997 May 9;109(9):293-300 (58 ref.). Comment on: Wien Klin Wochenschr 1997 May 9;109(9):312-20. **(Ger)**

[The use of teicoplanin for Gram-positive infections in patients with kidney transplantation] Jákics J, et al. **Orv Hetil** 1996 Jun 23;137(25):1355-8 (Eng. Abstr.) **(Hun)**

[Cefotaxime (klaforan) in modern therapy of bacterial infections] Khess R, et al. **Antibiot Khimioter** 1996 Mar; 41(3):44-56 (38 ref.) **(Rus)**

[Vancomycin and teicoplanin: differential aspects] Cobo J. **Enferm Infecc Microbiol Clin** 1995 Dec;13(10):600-10 (112 ref.) **(Spa)**

EPIDEMIOLOGY

Vancomycin-resistant enterococci on a renal ward in an Ontario hospital. Lior L, et al. **Can Commun Dis Rep** 1996 Aug 1;22(15):125-8 **(Eng, Fre)**

Nosocomial infections with vancomycin-resistant Enterococcus faecium in liver transplant recipients: risk factors for acquisition and mortality. Papanicolaou GA, et al. **Clin Infect Dis** 1996 Oct;23(4):760-6

Risk factors associated with vancomycin-resistant Enterococcus faecium infection or colonization in 145 matched case patients and control patients. Tornieporth NG, et al. **Clin Infect Dis** 1996 Oct;23(4):767-72

Vancomycin resistant enterococci in hospitals in the United Kingdom--1995. **Commun Dis Rep CDR Wkly** 1996 Aug 2;6(31):267

Vancomycin-resistant enterococci outside the health-care setting: prevalence, sources, and public health implications. McDonald LC, et al. **Emerg Infect Dis** 1997 Jul-Sep; 3(3):311-7 (52 ref.)

Epidemiological interpretation of chromosomal macro-restriction fragment patterns analyzed by pulsed-field gel electrophoresis [letter] Goering RV, et al. **J Clin Microbiol** 1997 Sep;35(9):2432-3

Molecular epidemiology and antibiotic susceptibility of enterococci in Cincinnati, Ohio: a prospective citywide survey. Perlada DE, et al. **J Clin Microbiol** 1997 Sep; 35(9):2342-7

Pseudo-outbreak of Enterococcus durans infections and colonization associated with introduction of an automated identification system software update. Singer DA, et al. **J Clin Microbiol** 1996 Nov;34(11):2685-7

Incidence and detection of multi-drug-resistant enterococci in Dublin hospitals. Lavery A, et al. **J Med Microbiol** 1997 Feb;46(2):150-6

Molecular epidemiology of enterococci with high-level resistance to aminoglycosides. Privitera O, et al. **Microb Drug Resist** 1995 Winter;1(4):293-7

Vancomycin-resistant Enterococcus faecium on a pediatric oncology ward: duration of stool shedding and incidence of clinical infection [see comments] Henning KJ, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):848-54. Comment in: Pediatr Infect Dis J 1996 Oct;15(10):845-7.

[Asymptomatic carriers of vancomycin-resistant enterococci in France. Study in an ambulatory population of young subjects (letter)] Cavallo JD, et al. **Presse Med** 1997 May 24;26(17):807 **(Fre)**

[Predictive factors for hospital infections caused by Gram-positive and Gram-negative organisms] Domínguez-Castellano A, et al. **Enferm Infecc Microbiol Clin** 1995 Dec;13(10):596-9 (Eng. Abstr.) **(Spa)**

[Alloiococcus otitidis: a more common microorganism than we thought? (letter)] Josebe Unzaga M, et al. **Enferm Infecc Microbiol Clin** 1997 Mar;15(3):174-5 **(Spa)**

ETIOLOGY

Endaortitis of coarctation of the aorta after invasive diagnostics. Böhm JO, et al. **Ann Thorac Surg** 1997 Mar; 63(3):829-30

Stomatococcus mucilaginosus meningitis in a patient with multiple myeloma following autologous stem cell transplantation. Abraham J, et al. **Bone Marrow Transplant** 1997 Mar;19(6):639-41

Physical predictors of infection in patients treated with clean intermittent catheterization: a prospective 7-year study. Bakke A, et al. **Br J Urol** 1997 Jan;79(1):85-90

Clinical approach to infective endocarditis. Saccente M, et al. **Cardiol Clin** 1996 Aug;14(3):351-62 (73 ref.)

Infection of a total knee joint prosthesis by peptostreptococcus micros and propionibacterium acnes in an elderly RA patient: implant salvage with longterm antibiotics and needle aspiration/irrigation. Stoll T, et al. **Clin Rheumatol** 1996 Jul;15(4):399-402

Streptococcus faecalis disc space infection following transurethral resection of prostate. Faraj AA. **Eur Spine J** 1996;5(3):204-6

Periurethral abscess caused by a nonvenereological ulcer at the glans penis. Jungwirth A, et al. **Int Urol Nephrol** 1996; 28(5):713-5

Antibiotic-resistant endocarditis in a hemodialysis patient. Vijayvargiya R, et al. **J Am Soc Nephrol** 1996 Apr; 7(4):536-42

Case of fatal systemic infection with an Aureobacterium sp.: identification of isolate by 16S rRNA gene analysis. Saweljew P, et al. **J Clin Microbiol** 1996 Jun;34(6):1540-1

Propionibacterium endophthalmitis following Molteno tube repositioning. Fanous MM, et al. **J Glaucoma** 1997 Aug; 6(4):201-2

Cervical necrotizing fasciitis as a complication of acute epiglottitis. Nguyen R, et al. **J Otolaryngol** 1997 Apr; 26(2):129-31

Neonatal enterococcal bacteremia: an increasingly frequent event with potentially untreatable pathogens. McNeeley DF, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):800-5

Leuconostoc spp. septicaemia in a child with short bowel syndrome. Monsen T, et al. **Scand J Infect Dis** 1997; 29(3):310-1

[A case of infected subdural hematoma complicating chronic subdural hematoma in a healthy adult man] Yamasaki F, et al. **No To Shinkei** 1997 Jan;49(1):81-4 (Eng. Abstr.) **(Jpn)**

[Bacteremia caused by Enterococcus avium secondary to thrombosis of the lateral sinus and the internal jugular vein (letter)] Lozano F, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):458 **(Spa)**

GRAM-POSITIVE BACTERIAL INFECTIONS

IMMUNOLOGY

Serum levels of CD14 in neonatal sepsis by Gram-positive and Gram-negative bacteria. Blanco A, et al. **Acta Paediatr** 1996 Jun;85(6):728–32

Local and systemic complement activity in small intestinal bacterial overgrowth. Riordan SM, et al. **Dig Dis Sci** 1997 Jun;42(6):1128–36

Tumor necrosis factor receptor p55 is essential for intrahepatic granuloma formation and hepatocellular apoptosis in a murine model of bacterium-induced fulminant hepatitis. Tsuji H, et al. **Infect Immun** 1997 May; 65(5):1892–8

Successful use of tetracycline as therapy of an immunocompromised patient with septicaemia caused by a vancomycin-resistant enterococcus [letter] Howe RA, et al. **J Antimicrob Chemother** 1997 Jul;40(1):144–5

Anti-infectious state induced by chronic experimental infection with Enterococcus faecium. Monari C, et al. **J Chemother** 1995 Nov;7 Suppl 4:93–5

Gemella haemolysans endocarditis associated with a raised anti-streptolysin-O titre [letter] Breathnach AS, et al. **J Infect** 1997 Jan;34(1):87–8

Antibody response to Arcanobacterium haemolyticum infection in humans. Nyman M, et al. **J Infect Dis** 1997 Jun;175(6):1515–8

Age-dependent susceptibility to intraabdominal abscess formation. Lally KP, et al. **J Pediatr Surg** 1996 Feb; 31(2):301–3

METABOLISM

Comparison of conventional dosing versus continuous-infusion vancomycin therapy for patients with suspected or documented gram-positive infections. James JK, et al. **Antimicrob Agents Chemother** 1996 Mar; 40(3):696–700

Immunohistochemical and ultrastructural analyses of in situ activation of hepatic stellate cells around Propionibacterium acnes-induced granulomas in the rat liver. Tsuji N, et al. **J Submicrosc Cytol Pathol** 1997 Jan; 29(1):125–33

MICROBIOLOGY

Vancomycin-dependent Enterococci: a clinical and laboratory assessment. Fraimow HS, et al. **Adv Exp Med Biol** 1995;390:97–107

Characterization of clinical isolates of beta-lactamase-negative, highly ampicillin-resistant Enterococcus faecalis. Cercenado E, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2420–2

Change in prevalence and antibiotic resistance of Enterococcus species isolated from blood cultures over an 8-year period [letter] Iwen PC, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):494–5

Isolation and characterization of two new homoacetogenic hydrogen-utilizing bacteria from the human intestinal tract that are closely related to Clostridium coccoides. Kamlage B, et al. **Appl Environ Microbiol** 1997 May;63(5):1732–8

Aerobic bacteria isolated from blood cultures of patients and their antibiotic susceptibilities in Harare, Zimbabwe. Obi CL, et al. **Cent Afr J Med** 1996 Dec;42(12):332–6

Oerskovia xanthineolytica keratitis [letter] Shah M, et al. **CLAO J** 1996 Apr;22(2):96

Skin colonization with vancomycin-resistant enterococci among hospitalized patients with bacteremia. Beezhold DW, et al. **Clin Infect Dis** 1997 Apr;24(4):704–6

Endophthalmitis due to Microbacterium species: case report and review of microbacterium infections. Funke G, et al. **Clin Infect Dis** 1997 Apr;24(4):713–6 (19 ref.)

Association of Gemella morbillorum endocarditis with adenomatous polyps and carcinoma of the colon: case report and review. Lopez-Dupla M, et al. **Clin Infect Dis** 1996 Feb;22(2):379–80

Recurrent vancomycin-resistant Enterococcus faecium bacteremia in a leukemia patient who was persistently colonized with vancomycin-resistant enterococci for two years. Roghmann MC, et al. **Clin Infect Dis** 1997 Mar; 24(3):514–5

Leuconostoc bacteremia after liver transplantation: another cause of vancomycin resistant gram-positive infection. Espinoza R, et al. **Clin Transplant** 1997 Aug;11(4):322–4

Tumor necrosis factor receptor p55 is essential for intrahepatic granuloma formation and hepatocellular apoptosis in a murine model of bacterium-induced fulminant hepatitis. Tsuji H, et al. **Infect Immun** 1997 May; 65(5):1892–8

Phenotypic and phylogenetic characterization of some Globicatella-like organisms from human sources: description of Facklamia hominis gen. nov., sp. nov. Collins MD, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):880–2

Incidence of antibiotic resistance and sex pheromone response among enterococci isolated from clinical human samples and from municipal waste water. Valdivia E, et al. **J Appl Bacteriol** 1996 Nov;81(5):538–44

Use of in-house studies of molecular epidemiology and full species identification for controlling spread of vancomycin-resistant Enterococcus faecalis isolates. Bodnar UR, et al. **J Clin Microbiol** 1996 Sep;34(9):2129–32

Clonal dissemination and colony morphotype variation of vancomycin-resistant Enterococcus faecium isolates in metropolitan Detroit, Michigan. Dunne WM Jr, et al. **J Clin Microbiol** 1997 Feb;35(2):388–92

Failure of Gram stain to detect Propionibacterium acnes in specimens from clinically significant infections [letter; comment] Esteban J, et al. **J Clin Microbiol** 1996 Aug; 34(8):2051. Comment on: J Clin Microbiol 1995 Mar;33(3):755–8.

Vancomycin-resistant Aureobacterium species cellulitis and bacteremia in a patient with acute myelogenous leukemia. Nolte FS, et al. **J Clin Microbiol** 1996 Aug;34(8):1992–4

Emergence and dissemination of a highly vancomycin-resistant vanA strain of Enterococcus faecium at a large teaching hospital. Pegues DA, et al. **J Clin Microbiol** 1997 Jun;35(6):1565–70

Potential for gene transfer among enterococci from a single patient and the possibility of confounding typing results. Petts DN, et al. **J Clin Microbiol** 1997 Jul;35(7):1722–7

Chromosomal DNA restriction endonuclease digestion patterns of beta-lactamase-producing Enterococcus faecalis isolates collected from a single hospital over a 7-year period. Seetulsingh PS, et al. **J Clin Microbiol** 1996 Aug;34(8):1892–6

Pseudo-outbreak of Enterococcus durans infections and colonization associated with introduction of an automated identification system software update. Singer DA, et al. **J Clin Microbiol** 1996 Nov;34(11):2685–7

Clinical isolation of vancomycin-resistant Enterococcus faecalis in Taiwan. Ben RJ, et al. **J Formos Med Assoc** 1996 Dec;95(12):946–9

Investigation of an outbreak of vancomycin-resistant Enterococcus faecium by random amplified polymorphic DNA (RAPD) assay. Issack MI, et al. **J Hosp Infect** 1996 Jul;33(3):191–200

Vancomycin-resistant gram-positive cocci: risk factors for faecal carriage. Rao GG, et al. **J Hosp Infect** 1997 Jan; 35(1):63–9

Sensitivity of Propionibacterium acnes isolated from acne patients: comparative study of antimicrobial agents. Nishijima S, et al. **J Int Med Res** 1996 Nov-Dec; 24(6):473–7

Epidemiology of colonisation of patients and environment with vancomycin-resistant enterococci. Bonten MJ, et al. **Lancet** 1996 Dec 14;348(9042):1615–9

Are glycopeptide-resistant enterococci in animals a threat to human beings? [letter] Das I, et al. **Lancet** 1997 Apr 5;349(9057):997–8

Vancomycin-dependent Enterococcus faecalis [letter] [see comments] Farrag N, et al. **Lancet** 1996 Dec 7; 348(9041):1581–2. Comment in: Lancet 1997 Feb 8;349(9049):429. Comment in: Lancet 1997 Feb 8;349(9049):429–30. Comment in: Lancet 1997 Feb 8;349(9049):430.

Vancomycin-dependent enterococcus [letter; comment] Wilks M. **Lancet** 1997 Feb 8;349(9049):429. Comment on: Lancet 1996 Dec 7;348(9041):1581–2.

Genotypic characterization of a nosocomial outbreak of VanA Enterococcus faecalis. Biavasco F, et al. **Microb Drug Resist** 1996 Summer;2(2):231–7

Multiplicity of genetic backgrounds among vancomycin-resistant Enterococcus faecium isolates recovered from an outbreak in a New York City hospital. Mato R, et al. **Microb Drug Resist** 1996 Fall;2(3):309–17

Successful treatment of persistent bacteremia due to vancomycin-resistant, ampicillin-resistant Enterococcus faecium. Mekonen ET, et al. **Microb Drug Resist** 1995 Fall; 1(3):249–53

Vancomycin-resistant Enterococcus faecium shunt infection in an infant: an antibiotic cure. Nachman SA, et al. **Microb Drug Resist** 1995 Spring;1(1):95–6

Serious infections caused by multiply-resistant Enterococcus faecium. Wade JJ, et al. **Microb Drug Resist** 1995 Fall; 1(3):241–3

Urinary tract infection in nephrotic syndrome. Gulati S, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):237–40

Propionibacterium avidum sacroiliitis and osteomyelitis. Estoppey O, et al. **Rev Rhum Engl Ed** 1997 Jan;64(1):54–6

Pleural empyema caused by Leuconostoc spp. Borer A, et al. **Scand J Infect Dis** 1997;29(3):311–2

Spondylodiscitis caused by Tropheryma whippelii. Altwegg M, et al. **Schweiz Med Wochenschr** 1996 Aug 31; 126(35):1495–9

Sub-species discrimination, using pyrolysis mass spectrometry and self-organising neural networks, of Propionibacterium acnes isolated from normal human skin. Goodacre R, et al. **Zentralbl Bakteriol** 1996 Aug; 284(4):501–15

[Clinical analysis of anaerobic septicemia in 26 patients with extensive burn] Huang X, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Dec;33(12):752–3 (Eng. Abstr.) **(Chi)**

[New gram-positive opportunistic bacteria: pathogenic role and treatment] Philippon A, et al. **Presse Med** 1997 May 17;26(16):778–86 (31 ref.) (Eng. Abstr.) **(Fre)**

[The detection of Peptostreptococcus asaccharolyticus and Bacillus cereus in clinical materials from a child who died of sepsis with a fulminant clinical course] Beleva S, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov-Dec; (6):16–20 (11 ref.) (Eng. Abstr.) **(Rus)**

[Propionibacterium acnes empyema (letter)] Martín Gonzálvez JA, et al. **Arch Bronconeumol** 1997 Feb; 33(2):107 **(Spa)**

[Prevalence of antimicrobial resistance in enterococci isolated from blood in Madrid (1994–1995)] Balas D, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):22–3 (Eng. Abstr.) **(Spa)**

[Propionibacterium acnes infection in patients with CSF shunts] Bordes A, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):24–7 (Eng. Abstr.) **(Spa)**

[Unusual diphtheromorphic gram-positive bacilli in clinical samples: current taxonomic status and clinical significance] Esteban J, et al. **Enferm Infecc Microbiol Clin** 1997 Apr; 15(4):203–11 (130 ref.) **(Spa)**

[Evaluation of chromogenic medium CPS ID2 (bioMérieux) in urine cultures (see comments)] Navarro F, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):215–9 (Eng. Abstr.). Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):570–1. Comment in: Enferm Infecc Microbiol Clin 1996 Nov;14(9):571. **(Spa)**

MORTALITY

Enterococcal bacteremia in the surgical intensive care unit. Does vancomycin resistance affect mortality? The Johns Hopkins SICU Study Group. Mainous MR, et al. **Arch Surg** 1997 Jan;132(1):76–81

Vancomycin resistance and mortality associated with enterococcal bacteremia [letter; comment] Lautenbach E, et al. **Clin Infect Dis** 1997 Mar;24(3):530–1. Comment on: Clin Infect Dis 1996 Apr;22(4):663–70.

Risk factors and attributable mortality associated with superinfections in neutropenic patients with cancer. Nucci M, et al. **Clin Infect Dis** 1997 Apr;24(4):575–9

PATHOLOGY

Experimental extrinsic allergic alveolitis and pulmonary angiitis induced by intratracheal or intravenous challenge with Corynebacterium parvum in sensitized rats. Yi ES, et al. **Am J Pathol** 1996 Oct;149(4):1303–12

Immunohistochemical and ultrastructural analyses of in situ activation of hepatic stellate cells around Propionibacterium acnes-induced granulomas in the rat liver. Tsuji N, et al. **J Submicrosc Cytol Pathol** 1997 Jan; 29(1):125–33

PHYSIOPATHOLOGY

Helcococcus kunzii as sole isolate from an infected sebaceous cyst. Peel MM, et al. **J Clin Microbiol** 1997 Jan;35(1):328–9

PREVENTION & CONTROL

Practical management of patients infected with resistant organisms: an infection control perspective. Boyce JM. **Adv Exp Med Biol** 1995;390:177–86

Polysaccharide conjugate vaccines for the prevention of gram-positive bacterial infections. Naso R, et al. **Adv Exp Med Biol** 1996;397:133–40 (17 ref.)

Gram-positive infections and quinolones in neutropenia [letter; comment] Altclas J, et al. **Ann Intern Med** 1997 May 15;126(10):830; discussion 831. Comment on: Ann Intern Med 1996 Aug 1;125(3):183–90.

Gram-positive infections and quinolones in neutropenia [letter; comment] Castagnola E, et al. **Ann Intern Med** 1997 May 15;126(10):830–1. Comment on: Ann Intern Med 1996 Aug 1;125(3):183–90.

Control of vancomycin-resistant enterococcus [letter; comment] Lai KK. **Ann Intern Med** 1997 Jun 15; 126(12):1000–1. Comment on: Ann Intern Med 1996 Sep 15;125(6):448–56.

Lack of ability of ciprofloxacin-rifampin prophylaxis to decrease infection-related morbidity in neutropenic patients given cytotoxic therapy and peripheral blood stem cell transplants. Hidalgo M, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1175–7

Surgical Infection Society position on vancomycin-resistant Enterococcus. Davis JM, et al. **Arch Surg** 1996 Oct; 131(10):1061–8

Prophylaxis with fluoroquinolones for bacterial infections in neutropenic patients: a meta-analysis. Cruciani M, et al. **Clin Infect Dis** 1996 Oct;23(4):795–805

Manipulation of a hospital antimicrobial formulary to control an outbreak of vancomycin-resistant enterococci. Quale J, et al. **Clin Infect Dis** 1996 Nov;23(5):1020–5

Emerging resistance to antimicrobial agents in gram-positive bacteria. Enterococci, staphylococci and nonpneumococcal streptococci. Cormican MG, et al. **Drugs** 1996;51 Suppl 1:6–12 (38 ref.)

Future prospects and therapeutic potential of streptogramins. Rubinstein E, et al. **Drugs** 1996;51 Suppl 1:38–42 (30 ref.)

Vancomycin-resistant enterococcus. Detection, epidemiology, and control measures. Boyce JM. **Infect Dis Clin North Am** 1997 Jun;11(2):367–84 (95 ref.)

The treatment and control of vancomycin resistant enterococci. Fraise AP. **J Antimicrob Chemother** 1996 Nov; 38(5):753–6

Resistant enterococci—mechanisms, laboratory detection and control in hospitals. Wade JJ, et al. **J Clin Pathol** 1996 Sep;49(9):700–3

Heat and chemical resistance of enterococci. Bradley CR, et al. **J Hosp Infect** 1996 Nov;34(3):191–6

Epidemiology of an outbreak due to glycopeptide-resistant Enterococcus faecium on a leukaemia unit. Chadwick PR, et al. **J Hosp Infect** 1996 Nov;34(3):171–82

Screening patients for glycopeptide-resistant enterococci [letter; comment] Chadwick PR, et al. **J Hosp Infect** 1996 Jul;33(3):226–8. Comment on: J Hosp Infect 1995 Jun;30 Suppl:483–93.

Report of a meeting on the epidemiology and control of glycopeptide-resistant enterococci. Chadwick PR, et al. **J Hosp Infect** 1996 Jun;33(2):83–92

Anterior chamber contamination following uncomplicated cataract surgery: comparative results using intravenous imipenem. Duch-Samper AM, et al. **Ophthalmic Surg Lasers** 1996 Dec;27(12):1005–11

RADIOGRAPHY

Mycotic aneurysm after aortic bifurcation prosthesis. Galema L, et al. **Neth J Med** 1996 Mar;48(3):105–8

RADIONUCLIDE IMAGING

[Role of 67 Gallium citrate and 99mTc-HMPAO-labelled neutrophils in the integrated diagnostic imaging in a case of Peptostreptococcus anaerobius hepatic abscess] Celentano L, et al. **Radiol Med (Torino)** 1996 Jul-Aug; 92(1-2):149–52 **(Ita)**

SURGERY

Postoperative subdural empyema caused by Propionibacterium acnes--a report of two cases. Critchley G, et al. **Br J Neurosurg** 1996 Jun;10(3):321–3

Failure of intravenous antibiotic therapy of multiple temporal brain abscesses due to Propionibacterium acnes requiring temporal lobectomy. Senneville E, et al. **J Infect** 1997 May; 34(3):269–71

[Scheduled reinterventions in the treatment of acute peritonitis] Popescu I, et al. **Chirurgia (Bucur)** 1996 Jul-Aug;45(4):171–82 (Eng. Abstr.) **(Rum)**

THERAPY

Beyond vancomycin: new therapies to meet the challenge of glycopeptide resistance. Nicas TI, et al. **Trends Microbiol** 1997 Jun;5(6):240–9 (74 ref.)

TRANSMISSION

Household transmission of vancomycin-resistant Enterococcus faecium. Shekar R, et al. **Clin Infect Dis** 1995 Dec;21(6):1511–2

Role of environmental contamination in the transmission of vancomycin-resistant enterococci [editorial; comment] Weber DJ, et al. **Infect Control Hosp Epidemiol** 1997 May; 18(5):306–9 (33 ref.). Comment on: Infect Control Hosp Epidemiol 1997 May;18(5):345–7.

Inter-hospital spread of vancomycin-resistant Enterococcus faecium [letter] Morrison D, et al. **J Hosp Infect** 1997 May; 36(1):77–8

Intrahospital spread of vancomycin-resistant Enterococcus faecium in Sweden. Torell E, et al. **Scand J Infect Dis** 1997;29(3):259–63

VETERINARY

Immunization with bacterial antigens: bacterial kidney disease. Kaattari SL, et al. **Dev Biol Stand** 1997;90:145–52 (40 ref.)

Abomasal bloat associated with Sarcina-like bacteria in goat kids. DeBey BM, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1468–9

PCR and probe-PCR assays to monitor broodstock Atlantic salmon (Salmo salar L.) ovarian fluid and kidney tissue for presence of DNA of the fish pathogen Renibacterium salmoninarum. Miriam A, et al. **J Clin Microbiol** 1997 Jun; 35(6):1322–6

Outbreak of diarrhea associated with Enterococcus durans in piglets. Cheon DS, et al. **J Vet Diagn Invest** 1996 Jan; 8(1):123–4

The use of kidney biopsy of broodstock steelhead trout (Oncorhyncus mykiss) to determine the status of bacterial kidney disease infection. White MR, et al. **J Vet Diagn Invest** 1996 Oct;8(4):519–22

Avoparcin used as a growth promoter is associated with the occurrence of vancomycin-resistant Enterococcus faecium on Danish poultry and pig farms. Bager F, et al. **Prev Vet Med** 1997 Jul;31(1-2):95–112

Avoparcin ban [letter] Howarth F, et al. **Vet Rec** 1997 Jan 25;140(4):103–4

GRAM-POSITIVE COCCI

Gemella morbillorum as a cause of septic shock [see comments] Vasishtha S, et al. **Clin Infect Dis** 1996 Jun; 22(6):1084–6. Comment in: Clin Infect Dis 1997 Feb;24(2):284–5.

[Rupture of the aortic arch due to bacterial aortitis--a case report of a patient undergoing successful surgical therapy] Sudo Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2221–4 (Eng. Abstr.) **(Jpn)**

CLASSIFICATION

Anaerobic cocci of clinical importance [published erratum appears in Br J Biomed Sci 1997 Jun;54(2):154] Wren MW. **Br J Biomed Sci** 1996 Dec;53(4):294–301 (56 ref.)

Phenotypic and phylogenetic characterization of some Globicatella-like organisms from human sources: description of Facklamia hominis gen. nov., sp. nov. Collins MD, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):880–2

Phylogenetic diversity of the deinococci as determined by 16S ribosomal DNA sequence comparison. Rainey FA, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):510–4

DRUG EFFECTS

Antibacterial activity and pharmacokinetics of four new 7-azetidinyl fluoroquinolones. Coll R, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):274–7

Antimicrobial resistance in India and the United States. Peter JB. **Clin Infect Dis** 1996 Dec;23(6):1315–6

Direct application of Etest to gram-positive cocci from blood cultures: quick and reliable minimum inhibitory concentration data. Hong T, et al. **Diagn Microbiol Infect Dis** 1996 May;25(1):21–5

In vitro antimicrobial activity and MIC quality control guidelines of RPR 106972 (RPR 112808/RPR106950): a novel orally administered streptogramin combination. The Quality Control Study Group. Putnam SD, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):139–47

Prevention and control of vancomycin resistance in gram-positive coccal microorganisms: fire prevention and fire fighting [editorial; comment] Mayhall CG. **Infect Control Hosp Epidemiol** 1996 Jun;17(6):353–5. Comment on: Infect Control Hosp Epidemiol 1996 Jun;17(6):356–9.

Synthesis and antibacterial activity of derivatives of the glycopeptide antibiotic A-40926 and its aglycone. Hermann R, et al. **J Antibiot (Tokyo)** 1996 Dec;49(12):1236–48

Comparative in-vitro activity of the new fluoroquinolone trovafloxacin (CP-99,219) against gram-positive cocci. Coque TM, et al. **J Antimicrob Chemother** 1996 May; 37(5):1011–6

In-vitro activity of ramoplanin (a novel lipoglycopeptide), vancomycin, and teicoplanin against gram-positive clinical isolates from cancer patients. Rolston KV, et al. **J Antimicrob Chemother** 1996 Aug;38(2):265–9

Gene exchange and antimicrobial resistance in gram-positive cocci. Schaberg DR. **Trans Am Clin Climatol Assoc** 1996; 108:59–66; discussion 66–8 (18 ref.)

ENZYMOLOGY

Purification and characterization of blood group A-degrading isoforms of alpha-N-acetylgalactosaminidase from Ruminococcus torques strain IX-70. Hoskins LC, et al. **J Biol Chem** 1997 Mar 21;272(12):7932–9

GENETICS

Method for preparation of RNA from Ruminococcus albus. Nagamine T, et al. **Biotechniques** 1997 Mar;22(3):406–8

Dockerin-like sequences in cellulases and xylanases from the rumen cellulolytic bacterium Ruminococcus flavefaciens. Kirby J, et al. **FEMS Microbiol Lett** 1997 Apr 15; 149(2):213–9

Complete nucleotide sequence of a cryptic plasmid, pBAW301, from the ruminal anaerobe Ruminococcus flavefaciens R13e2. May T, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2-3):221–7

16S rRNA gene sequence of Rubrobacter radiotolerans and its phylogenetic alignment with members of the genus Arthrobacter, gram-positive bacteria, and members of the family Deinococcaceae. Kausar J, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):684–6

Phylogenetic diversity of the deinococci as determined by 16S ribosomal DNA sequence comparison. Rainey FA, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):510–4

Identification and characterization of uvrA, a DNA repair gene of Deinococcus radiodurans. Agostini HJ, et al. **J Bacteriol** 1996 Dec;178(23):6759–65

The sequences of heat shock protein 40 (DnaJ) homologs provide evidence for a close evolutionary relationship between the Deinococcus-thermus group and cyanobacteria. Bustard K, et al. **J Mol Evol** 1997 Aug; 45(2):193–205

Gene exchange and antimicrobial resistance in gram-positive cocci. Schaberg DR. **Trans Am Clin Climatol Assoc** 1996; 108:59–66; discussion 66–8 (18 ref.)

GROWTH & DEVELOPMENT

Antimicrobial activity and biocompatibility of polyurethane and silicone catheters containing low concentrations of silver: a new perspective in prevention of polymer-associated foreign-body-infections. Böswald M, et al. **Zentralbl Bakteriol** 1995 Dec;283(2):187–200

IMMUNOLOGY

Gemella haemolysans endocarditis associated with a raised anti-streptolysin-O titre [letter] Breathnach AS, et al. **J Infect** 1997 Jan;34(1):87–8

ISOLATION & PURIFICATION

Unsuspected infections crystalline keratopathy masquerading as corneal graft rejection [letter] Morrison DA, et al. **Br J Ophthalmol** 1997 Jul;81(7):608

Isolation and properties of bacteriolytic enzyme-producing cocci from the human mouth. Kanamoto T, et al. **FEMS Microbiol Lett** 1996 Nov 1;144(2-3):135–40

Successful cultivation of a potentially pathogenic coccoid organism with trophism for gastric mucin. Lee SG, et al. **Infect Immun** 1997 Jan;65(1):49–54

Helcococcus kunzii as sole isolate from an infected sebaceous cyst. Peel MM, et al. **J Clin Microbiol** 1997 Jan;35(1):328–9

A practical technique for disinfecting electrical stimulation apparatuses used in wound treatment. Kalinowski DP, et al. **Phys Ther** 1996 Dec;76(12):1340–7

Acetogenic coccoid spore-forming bacteria isolated from the rumen. Rieu-Lesme F, et al. **Res Microbiol** 1996 Nov-Dec; 147(9):753–64

[Gram-positive, catalase negative cocci isolated from clinical material--identification and drug sensitivity of strains] Rokosz A, et al. **Przegl Epidemiol** 1996;50(3):265–72 (Eng. Abstr.) **(Pol)**

[Alloiococcus otitidis: a more common microorganism than we thought? (letter)] Josebe Unzaga M, et al. **Enferm Infece Microbiol Clin** 1997 Mar;15(3):174–5 **(Spa)**

METABOLISM

Competition for cellulose among three predominant ruminal cellulolytic bacteria under substrate-excess and substrate-limited conditions. Shi Y, et al. **Appl Environ Microbiol** 1997 Feb;63(2):734–42

Utilization of individual cellodextrins by three predominant ruminal cellulolytic bacteria. Shi Y, et al. **Appl Environ Microbiol** 1996 Mar;62(3):1084–8

In vivo binding of the salivary glycoprotein EP-GP (identical to GCDFP-15) to oral and non-oral bacteria detection and identification of EP-GP binding species. Schenkels LC, et al. **Biol Chem** 1997 Feb;378(2):83–8

GRAM-POSITIVE ENDOSPORE-FORMING BACTERIA

CLASSIFICATION

Thermoanaerobacter mathranii sp. nov., an ethanol-producing, extremely thermophilic anaerobic bacterium from a hot spring in Iceland. Larsen L, et al. **Arch Microbiol** 1997 Aug;168(2):114–9

Sulfobacillus disulfidooxidans sp. nov., a new acidophilic, disulfide-oxidizing, gram-positive, spore-forming bacterium. Dufresne S, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):1056–64

Bacillus salexigens sp. nov., a new moderately halophilic Bacillus species. Garabito MJ, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):735–41

METABOLISM

Thermoanaerobacter mathranii sp. nov., an ethanol-producing, extremely thermophilic anaerobic bacterium from a hot spring in Iceland. Larsen L, et al. **Arch Microbiol** 1997 Aug;168(2):114–9

Characteristics of Sulfobacillus acidophilus sp. nov. and other moderately thermophilic mineral-sulphide-oxidizing bacteria. Norris PR, et al. **Microbiology** 1996 Apr;142 (Pt 4):775–83

PATHOGENICITY

Diversity and partial characterization of putative virulence determinants in Pasteuria penetrans, the hyperparasitic bacterium of root-knot nematodes (Meloidogyne spp.). Davies KG, et al. **J Appl Microbiol** 1997 Aug;83(2):227–35

GRAM-POSITIVE NON-SPORE-FORMING RODS see **GRAM-POSITIVE ASPOROGENOUS RODS**

GRAM-POSITIVE RODS

[Unusual diphtheromorphic gram-positive bacilli in clinical samples: current taxonomic status and clinical significance] Esteban J, et al. **Enferm Infece Microbiol Clin** 1997 Apr; 15(4):203–11 (130 ref.) **(Spa)**

CLASSIFICATION

Bogoriella caseilytica gen. nov., sp. nov., a new alkaliphilic actinomycete from a soda lake in Africa. Groth I, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):788–94

Thermoterrabacterium ferrireducens gen. nov., sp. nov., a thermophilic anaerobic dissimilatory Fe(III)-reducing bacterium from a continental hot spring. Slobodkin A, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):541–7

Phylogenetic relationships of the genera Acetobacterium and Eubacterium sensu stricto and reclassification of Eubacterium alactolyticum as Pseudoramibacter alactolyticus gen. nov., comb. nov. Willems A, et al. **Int J Syst Bacteriol** 1996 Oct;46(4):1083–7

An identification scheme for rapidly and aerobically growing gram-positive rods. von Graevenitz A, et al. **Zentralbl Bakteriol** 1996 Jul;284(2-3):246–54

ENZYMOLOGY

Sequence of subunit c of the Na(+)-translocating F1F0 ATPase of Acetobacterium woodii: proposal for determinants of Na+ specificity as revealed by sequence comparisons. Rahlfs S, et al. **FEBS Lett** 1997 Mar 10; 404(2-3):269–71

GENETICS

Case of fatal systemic infection with an Aureobacterium sp.: identification of isolate by 16S rRNA gene analysis. Saweljew P, et al. **J Clin Microbiol** 1996 Jun;34(6):1540–1

GRAM-POSITIVE RODS

METABOLISM

The eastern and western branches of the Wood/Ljungdahl pathway: how the east and west were won. Ragsdale SW. **Biofactors** 1997;6(1):3–11 (75 ref.)

Thermoterrabacterium ferrireducens gen. nov., sp. nov., a thermophilic anaerobic dissimilatory Fe(III)-reducing bacterium from a continental hot spring. Slobodkin A, et al. **Int J Syst Bacteriol** 1997 Apr;47(2):541–7

An identification scheme for rapidly and aerobically growing gram-positive rods. von Graevenitz A, et al. **Zentralbl Bakteriol** 1996 Jul;284(2–3):246–54

PATHOGENICITY

Case of fatal systemic infection with an Aureobacterium sp.: identification of isolate by 16S rRNA gene analysis. Saweljew P, et al. **J Clin Microbiol** 1996 Jun;34(6):1540–1

GRAMICIDIN

Two mechanisms of H+/OH- transport across phospholipid vesicular membrane facilitated by gramicidin A. Prabhananda BS, et al. **Biophys J** 1996 Dec;71(6):3091–7

Valence selectivity of the gramicidin channel: a molecular dynamics free energy perturbation study. Roux B. **Biophys J** 1996 Dec;71(6):3177–85

Properties of synthetic analogs of gramicidin S containing L-serine or L-glutamic acid residue in place of L-ornithine residue. Tamaki M, et al. **Int J Pept Protein Res** 1996 May; 47(5):369–75

ANALOGS & DERIVATIVES

Effect of tryptophan-N-formylated gramicidin on growth of Plasmodium berghei in mice. Otten-Kuipers MA, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1778–82

Protein stability and conformational rearrangements in lipid bilayers: linear gramicidin, a model system. Cotten M, et al. **Biophys J** 1997 Aug;73(2):614–23

Ab initio molecular dynamics study of proton transfer in a polyglycine analog of the ion channel gramicidin A. Sagnella DE, et al. **Biophys J** 1996 Sep;71(3):1172–8

Gramicidin S is active against both gram-positive and gram-negative bacteria. Kondejewski LH, et al. **Int J Pept Protein Res** 1996 Jun;47(6):460–6

Modulation of structure and antibacterial and hemolytic activity by ring size in cyclic gramicidin S analogs. Kondejewski LH, et al. **J Biol Chem** 1996 Oct 11; 271(41):25261–8

Effects of gramicidin and tryptophan-N-formylated gramicidin on the sodium and potassium content of human erythrocytes. Otten-Kuipers MA, et al. **Mol Membr Biol** 1996 Oct-Dec;13(4):225–32

Tryptophan-N-formylated gramicidin causes growth inhibition of Plasmodium falciparum by inducing potassium efflux from infected erythrocytes. Otten-Kuipers MA, et al. **Parasitol Res** 1997;83(2):185–92

ANALYSIS

Liquid chromatographic analysis of a formulation containing polymyxin, gramicidin and neomycin. Adams E, et al. **J Pharm Biomed Anal** 1997 Jan;15(4):505–11

BIOSYNTHESIS

Arginase of Bacillus brevis Nagano: purification, properties, and implication in gramicidin S biosynthesis. Kanda M, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):37–42

Structural basis for the activation of phenylalanine in the non-ribosomal biosynthesis of gramicidin S. Conti E, et al. **EMBO J** 1997 Jul 16;16(14):4174–83

CHEMISTRY

The roles of tryptophan residues in the structure, function, and folding of the gramicidin transmembrane ion channel. Wallace BA. **Adv Exp Med Biol** 1996;398:607–14 (29 ref.)

Engineering the gramicidin channel. Koeppe RE 2nd, et al. **Annu Rev Biophys Biomol Struct** 1996;25:231–58 (126 ref.)

Lipid bilayer electrostatic energy, curvature stress, and assembly of gramicidin channels. Lundbaek JA, et al. **Biochemistry** 1997 May 13;36(19):5695–701

Water accessibility to the tryptophan indole N-H sites of gramicidin A transmembrane channel: detection of positional shifts of tryptophans 11 and 13 along the channel axis upon cation binding. Maruyama T, et al. **Biochemistry** 1997 Sep 9;36(36):10993–1001

Nonlamellar phases induced by the interaction of gramicidin S with lipid bilayers. A possible relationship to membrane-disrupting activity. Prenner EJ, et al. **Biochemistry** 1997 Jun 24;36(25):7906–16

Monovalent cation transport: lack of structural deformation upon cation binding. Tian F, et al. **Biochemistry** 1996 Sep 17;35(37):11959–66

Ion-water and water-water interactions in a gramicidinlike channel: effects due to group polarizability and backbone flexibility. Duca KA, et al. **Biophys Chem** 1997 Apr 22; 65(2–3):123–41

Binding of alkaline cations to the double-helical form of gramicidin. Chen Y, et al. **Biophys J** 1996 Jul;71(1):163–70

Protein stability and conformational rearrangements in lipid bilayers: linear gramicidin, a model system. Cotten M, et al. **Biophys J** 1997 Aug;73(2):614–23

Visualizing proton conductance in the gramicidin channel [comment] Deamer DW. **Biophys J** 1996 Jul;71(1):5. Comment on: Biophys J 1996 Jul;71(1):19–39.

Gramicidin channels in phospholipid bilayers with unsaturated acyl chains. Girshman J, et al. **Biophys J** 1997 Sep;73(3):1310–9

High-resolution mono- and multidimensional magic angle spinning 1H nuclear magnetic resonance of membrane peptides in nondeuterated lipid membranes and H2O. Le Guernevé C, et al. **Biophys J** 1996 Nov;71(5):2633–44

New fluorescent octadecapentaenoic acids as probes of lipid membranes and protein-lipid interactions. Mateo CR, et al. **Biophys J** 1996 Oct;71(4):2177–91

Structure and dynamics of a proton wire: a theoretical study of H+ translocation along the single-file water chain in the gramicidin A channel [see comments] Pomès R, et al. **Biophys J** 1996 Jul;71(1):19–39. Comment in: Biophys J 1996 Jul;71(1):5.

Protein structural analysis from solid-state NMR-derived orientational constraints. Quine JR, et al. **Biophys J** 1997 May;72(5):2342–8

Effect of the dipole potential of a bilayer lipid membrane on gramicidin channel dissociation kinetics. Rokitskaya TI, et al. **Biophys J** 1997 Aug;73(2):850–4

Structure and dynamics of hydronium in the ion channel gramicidin A. Sagnella DE, et al. **Biophys J** 1996 May; 70(5):2043–51

The binding site of sodium in the gramicidin A channel: comparison of molecular dynamics with solid-state NMR data. Woolf TB, et al. **Biophys J** 1997 May;72(5):1930–45

The conformational preference of gramicidin channels is a function of lipid bilayer thickness. Mobashery N, et al. **FEBS Lett** 1997 Jul 21;412(1):15–20

Gramicidin channels--a solvable membrane "protein" folding problem. Andersen OS, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):331–42 (79 ref.)

Solution structure of a parallel left-handed double-helical gramicidin-A determined by 2D 1H NMR. Chen Y, et al. **J Mol Biol** 1996 Dec 13;264(4):757–69

Crystal structure of the gramicidin/potassium thiocyanate complex. Doyle DA, et al. **J Mol Biol** 1997 Mar 14; 266(5):963–77

Three-dimensional lipophilicity characterization of molecular pores and channel-like cavities. Arteca GA, et al. **J Mol Graph** 1996 Aug;14(4):235–42

Structural polymorphism of gramicidin A channels: ion conductivity and spectral studies. Sychev SV, et al. **J Pept Sci** 1996 May-Jun;2(3):141–56

Hydrogen exchange in the lipid bilayer-bound gramicidin channel. Huo S, et al. **Solid State Nucl Magn Reson** 1996 Dec;7(3):177–83

METABOLISM

Role of metal ion free valinomycin-carbonyl cyanide m-chlorophenylhydrazone complex in the enhancement of the rates of gramicidin facilitated net H+, Li+ and Na+ transport across phospholipid vesicular membrane. Prabhananda BS, et al. **Biochim Biophys Acta** 1997 Jan 14; 1323(1):137–44

Binding of alkaline cations to the double-helical form of gramicidin. Chen Y, et al. **Biophys J** 1996 Jul;71(1):163–70

Gravity dependency of the gramicidin A channel conductivity. A model for gravity perception on the cellular level. Schatz A, et al. **Eur Biophys J** 1996; 25(1):37–41

PHARMACOKINETICS

Permeability of dormant spores of Bacillus subtilis to gramicidin S. Tanimoto Y, et al. **FEMS Microbiol Lett** 1996 Feb 15;136(2):151–6

PHARMACOLOGY

Perforated patch-clamp recording in cardiac myocytes using cation-selective ionophore gramicidin. Tajima Y, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C524–32

Sodium ionophore converts growth manner of vascular smooth muscle cells from spontaneously hypertensive rats. Osanai T, et al. **Cardiovasc Res** 1996 Jan;31(1):124–31

Synergistic effect of gramicidin and EDTA in inhibiting sperm motility and cervical mucus penetration in vitro. Bourinbaiar AS, et al. **Contraception** 1996 Dec;54(6):367–72

Assessment of the effects of gramicidin, formaldehyde, and surfactants on Escherichia coli by flow cytometry using nucleic acid and membrane potential dyes. Comas J, et al. **Cytometry** 1997 Sep 1;29(1):58–64

Gramicidin channels--a solvable membrane "protein" folding problem. Andersen OS, et al. **Indian J Biochem Biophys** 1996 Oct;33(5):331–42 (79 ref.)

Gramicidin S is active against both gram-positive and gram-negative bacteria. Kondejewski LH, et al. **Int J Pept Protein Res** 1996 Jun;47(6):460–6

Modulation of structure and antibacterial and hemolytic activity by ring size in cyclic gramicidin S analogs. Kondejewski LH, et al. **J Biol Chem** 1996 Oct 11; 271(41):25261–8

Electrodiffusion, barrier, and gating analysis of DIDS-insensitive chloride conductance in human red blood cells treated with valinomycin or gramicidin. Freedman JC, et al. **J Gen Physiol** 1997 Feb;109(2):201–16

Effects of gramicidin and tryptophan-N-formylated gramicidin on the sodium and potassium content of human erythrocytes. Otten-Kuipers MA, et al. **Mol Membr Biol** 1996 Oct-Dec;13(4):225–32

Tryptophan-N-formylated gramicidin causes growth inhibition of Plasmodium falciparum by inducing potassium efflux from infected erythrocytes. Otten-Kuipers MA, et al. **Parasitol Res** 1997;83(2):185–92

Gramicidin perforated patch recording and intracellular chloride activity in excitable cells. Akaike N. **Prog Biophys Mol Biol** 1996;65(3):251–64 (40 ref.)

[Actinomycin D resistance of gramicidin-resistant strains of Staphylococcus] Polin AN, et al. **Antibiot Khimioter** 1996; 41(7–8):13–7 (Eng. Abstr.) **(Rus)**

GRAMINEA see **GRASSES**

GRANA see **CHLOROPLASTS**

GRANISETRON

ADMINISTRATION & DOSAGE

Cardiovascular effects of i.v. granisetron at two administration rates and of ondansetron in healthy adults. Boike SC, et al. **Am J Health Syst Pharm** 1997 May 15; 54(10):1172–6

Expanded use of oral granisetron [letter] King RS, et al. **Am J Health Syst Pharm** 1996 Aug 1;53(15):1849

Optimal dose of granisetron for prophylaxis against postoperative emesis after gynecological surgery. Mikawa K, et al. **Anesth Analg** 1997 Sep;85(3):652–6

Granistron and dexamethasone provide more improved prevention of postoperative emesis than granisetron alone in children. Fujii Y, et al. **Can J Anaesth** 1996 Dec; 43(12):1229–32

Comparative efficacy of oral and intravenous granisetron for the prevention of acute chemotherapy-induced emesis. Perez EA. **Clin Ther** 1996 Jul-Aug;18(4):578–90; discussion 577 (38 ref.)

A double-blind, randomised comparison of the anti-emetic efficacy of two intravenous doses of dolasetron mesilate and granisetron in patients receiving high dose cisplatin chemotherapy. Audhuy B, et al. **Eur J Cancer** 1996 May; 32A(5):807–13

Control of carboplatin-induced emesis with a fixed low dose of granisetron (0.5 mg) plus dexamethasone. Markman M, et al. **Gynecol Oncol** 1996 Mar;60(3):435–7

Repeated administration of the 5-HT3 receptor antagonist granisetron reduces the incidence of delayed cisplatin-induced emesis in the piglet. Grélot L, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):255–61

Comparison of intravenous granisetron with metoclopramide plus dexamethasone in the prevention of nausea and vomiting associated with emetogenic cytotoxic chemotherapy. Chang CS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Feb; 13(2):97–102

[The use of granisetron per os in radiotherapy-induced emesis] Krengli M, et al. **Minerva Med** 1996 Dec; 87(12):605–8 (Eng. Abstr.) **(Ita)**

[Comparison of effects between single vs five-day injection of granisetron for combination chemotherapy with cisplatin and 5-fluorouracil for head and neck cancer] Fujii M, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1095–101 (Eng. Abstr.) **(Jpn)**

[Granisetron versus granisetron plus methylprednisolone in the prevention of chemotherapy induced nausea and vomiting--in adjuvant chemotherapy, including CDDP against gastric cancer] Kurita A, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):49–54 (Eng. Abstr.) **(Jpn)**

[A comparative study of the effects of granisetron alone and a combination of granisetron plus steroids on CDDP-based combination chemotherapy-induced emesis--outcomes of a multicenter randomized comparative study using the central registration method. Nara Medical University Kytril Study Group] Ozono S, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):349–56 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of 2 mg granisetron tablet for nausea and vomiting induced by anticancer drugs including cisplatin] Takada M, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):987–94 (Eng. Abstr.) **(Jpn)**

[A randomized cross-over comparative study of granisetron alone and combination of granisetron, methylprednisolone and droperidol as antiemetic prophilaxis in CDDP-based chemotherapy for gynecologic cancer] Wataba K, et al. **Gan To Kagaku Ryoho** 1997 Apr;24(6):691–7 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of 2-mg granisetron tablet for nausea and vomiting induced by anticancer drugs including cisplatin] Yoshiya N, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1141–7 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Venous thrombosis as a complication of antiemetic treatment [letter] Slee PH, et al. **Cancer Chemother Pharmacol** 1996; 38(6):574

ANALOGS & DERIVATIVES

Direct plasma liquid chromatographic-tandem mass spectrometric analysis of granisetron and its 7-hydroxy metabolite utilizing internal surface reversed-phase guard

columns and automated column switching devices. Boppana VK, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):227–36

BLOOD

Direct plasma liquid chromatographic–tandem mass spectrometric analysis of granisetron and its 7–hydroxy metabolite utilizing internal surface reversed–phase guard columns and automated column switching devices. Boppana VK, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12;678(2):227–36

CHEMISTRY

Stability of granisetron hydrochloride with dexamethasone sodium phosphate for 14 days. Chin A, et al. **Am J Health Syst Pharm** 1996 May 15;53(10):1174–6

Stability of granisetron hydrochloride in an extemporaneously prepared oral liquid. Quercia RA, et al. **Am J Health Syst Pharm** 1997 Jun 15;54(12):1404–6

Stability of granisetron hydrochloride in polypropylene syringes. Quercia RA, et al. **Am J Health Syst Pharm** 1996 Nov 15;53(22):2744–6

Compatibility of granisetron hydrochloride with selected drugs during simulated Y–site administration. Trissel LA, et al. **Am J Health Syst Pharm** 1997 Jan 1;54(1):56–60

Correction: chemical structures of serotonin and serotonin–receptor antagonists [letter; comment] Holder EP. **Ann Pharmacother** 1996 Sep;30(9):1043. Comment on: Ann Pharmacother 1995 Dec;29(12):1240–51.

ECONOMICS

Re: 'Cost–effectiveness of 5–hydroxytryptamin3 receptor antagonists: a retrospective comparison of ondansetron and granisetron' [letter; comment] Thwaites R, et al. **Anticancer Drugs** 1996 Jan;7(1):127–30. Comment on: Anticancer Drugs 1995 Apr;6(2):243–9.

PHARMACOLOGY

Anti–emetic drug effects on cognitive and psychomotor performance: granisetron vs. ondansetron. Benline TA, et al. **Aviat Space Environ Med** 1997 Jun;68(6):504–11

Granisetron shows no pro–arrhythmic effect in normal subjects during or after exercise in a hot environment. Gray GW, et al. **Aviat Space Environ Med** 1996 Aug;67(8):759–61

Granisetron in the prevention of vomiting induced by conditioning for stem cell transplantation: a prospective randomized study. Okamoto S, et al. **Bone Marrow Transplant** 1996 May;17(5):679–83

5–HT3 and 5–HT4 receptors and cholinergic and tachykininergic neurotransmission in the guinea–pig proximal colon. Briejer MR, et al. **Eur J Pharmacol** 1996 Jul 18;308(2):173–80

Effects of granisetron, a 5–HT3 receptor antagonist, on morphine–induced potentiation of brain stimulation reward. Rompré PP, et al. **Eur J Pharmacol** 1995 Dec 20; 287(3):263–9

Effects of 5–HT4 receptor antagonists on rat behaviour in the elevated plus–maze test. Silvestre JS, et al. **Eur J Pharmacol** 1996 Aug 15;309(3):219–22

Effect of granisetron on cholera toxin–induced enteric secretion [letter] Turvill JL, et al. **Lancet** 1997 May 3; 349(9061):1293

Effect of 5–HT2 and 5–HT3 receptor antagonists on cholera toxin–induced fluid hypersecretion in the pig jejunum. Grondahi ML, et al. **Zentralbl Veterinarmed A** 1996 Nov; 43(9):543–52

THERAPEUTIC USE

Granisetron reduces incidence of nausea and vomiting after breast surgery. Fujii Y, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):746–9

The dose–response relation and cost–effectiveness of granisetron for the prophylaxis of pediatric postoperative emesis. Cieslak GD, et al. **Anesthesiology** 1996 Nov; 85(5):1076–85

Delayed emesis induced by moderately emetogenic chemotherapy: do we need to treat all patients? The Italian Group for Antiemetic Research. **Ann Oncol** 1997 Jun; 8(6):561–7

Antiemetic efficacy of granisetron in patients with gynecological malignancies. Sismondi P, et al. **Anticancer Drugs** 1997 Mar;8(3):225–30

Granisetron reduces the incidence and severity of nausea and vomiting after laparoscopic cholecystectomy. Fujii Y, et al. **Can J Anaesth** 1997 Apr;44(4):396–400

Granisetron reduces postoperative nausea and vomiting throughout menstrual cycle. Fujii Y, et al. **Can J Anaesth** 1997 May;44(5 Pt 1):489–93

Prophylactic antiemetic efficacy of granisetron in patients with and without previous postoperative emesis. Fujii Y, et al. **Can J Anaesth** 1997 Mar;44(3):273–7

Antiemetic efficacy of granisetron and metoclopramide in children undergoing ophthalmic or ENT surgery. Fujii Y, et al. **Can J Anaesth** 1996 Nov;43(11):1095–9

Antiemetic effects of granisetron on postoperative nausea and vomiting in patients with and without motion sickness. Fujii Y, et al. **Can J Anaesth** 1996 Feb;43(2):110–4

Effective dose of granisetron for preventing postoperative emesis in children. Fujii Y, et al. **Can J Anaesth** 1996 Jul; 43(7):660–4

Prevention of PONV with granisetron, droperidol and metoclopramide in female patients with history of motion sickness. Fujii Y, et al. **Can J Anaesth** 1997 Aug;44(8):820–4

Improved control of high–dose–cisplatin–induced acute emesis with the addition of prochlorperazine to granisetron/dexamethasone. Hesketh PJ, et al. **Cancer J Sci Am** 1997 May–Jun;3(3):180–3

A pilot study to evaluate the cost–effectiveness of ondansetron and granisetron in fractionated total body irradiation. Gibbs SJ, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(3):182–4

Combination effect of granisetron and methylprednisolone for preventing emesis induced by cytotoxic agents. Kigawa J, et al. **Gynecol Obstet Invest** 1997;43(3):195–9

Total body irradiation prior to bone marrow transplantation: efficacy and safety of granisetron in the prophylaxis and control of radiation–induced emesis. Belkacémi Y, et al. **Int J Radiat Oncol Biol Phys** 1996 Aug 1;36(1):77–82

Prevention of delayed emesis by a single intravenous bolus dose of 5–HT3–receptor–antagonist in moderately emetogenic chemotherapy. Massidda B, et al. **J Chemother** 1996 Jun;8(3):237–42

Use of dexamethasone with 5–HT3–receptor antagonists [letter] Perez EA. **Oncology (Huntingt)** 1996 Jan;10(1):14

5HT3 receptor antagonists and pruritus due to cholestasis [letter] Quigley C. **Palliat Med** 1996 Jan;10(1):54

Efficacy and safety of different doses of granisetron for the prophylaxis of cisplatin–induced emesis [see comments] Perez EA, et al. **Support Care Cancer** 1997 Jan;5(1):31–7 . Comment in: Support Care Cancer 1997 Jan;5(1):1–2.

Granisetron plus dexamethasone in moderately emetogenic chemotherapy: evaluation of activity during three consecutive courses of chemotherapy. Silva RR, et al. **Support Care Cancer** 1996 Jul;4(4):287–90

[Antiemetic efficacy of granisetron in repeated CAF chemotherapy after breast cancer operation] Park Y, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):573–7 (Eng. Abstr.) **(Jpn)**

[Do 5HT–3 receptor antagonists ameliorate cholestatic pruritus? (letter)] Porcel JM, et al. **An Med Interna** 1995 Aug;12(8):411 **(Spa)**

GRANTS AND SUBSIDIES, EDUCATIONAL see **TRAINING SUPPORT**

GRANTS AND SUBSIDIES, GOVERNMENT see **FINANCING, GOVERNMENT**

GRANTS AND SUBSIDIES, HEALTH PLANNING see **HEALTH PLANNING SUPPORT**

GRANTS AND SUBSIDIES, RESEARCH see **RESEARCH SUPPORT**

GRANTS, PEER REVIEW see **PEER REVIEW, RESEARCH**

GRANULAR CELL MYOBLASTOMA see **GRANULAR CELL TUMOR**

GRANULAR CELL TUMOR

COMPLICATIONS

Granular cell tumour of the spinal cord in a patient with Rubenstein–Taybi syndrome. Burton BJ, et al. **Br J Neurosurg** 1997 Jun;11(3):257–9

DIAGNOSIS

Granular cell myoblastoma of the cervical esophagus: MR findings. Boncoeur–Martel MP, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1794–7

Morphological and immunohistochemical characterization of granular cells in non–hypophyseal tumours of the central nervous system. Rickert CH, et al. **Histopathology** 1997 May;30(5):464–71

Granular cell tumor of the vulva: literature review and case report. Simone J, et al. **J La State Med Soc** 1996 Dec; 148(12):539–41 (18 ref.)

Intramuscular malignant granular cell tumor. Tsuchida T, et al. **Skeletal Radiol** 1997 Feb;26(2):116–21 (39 ref.)

Granular cell tumors of the breast: a report of two cases. Ohnishi H, et al. **Surg Today** 1996;26(11):929–32

[Granular cell tumor of the eyelid] Spraul CW, et al. **Klin Monatsbl Augenheilkd** 1997 Feb;210(2):119–20 (Eng. Abstr.) **(Ger)**

[Diagnosis and treatment of peripheral nerve tumor] Usui M. **Nippon Seikeigeka Gakkai Zasshi** 1997 May; 71(5):161–70 (23 ref.) **(Jpn)**

[A case of granular cell tumor of cecum] Hamajima E, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):27–32 (35 ref.) **(Jpn)**

[Granular cell myoblastoma (Abrikossoff tumor) of the larynx] Piotrowski S, et al. **Otolaryngol Pol** 1995; 49(5):462–7 (Eng. Abstr.) **(Pol)**

[Abrikossoff's tumor] Rivas Lacarte MP, et al. **An Otorrinolaringol Ibero Am** 1996;23(4):425–30 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Granular cell tumour and leiomyomatosis of the esophagus—a non–coincidental association? Marinho A, et al. **Pathol Res Pract** 1996 May;192(5):492–5

METABOLISM

Immunoreactivity of S100 protein, alpha–1–antitrypsin, and CD68 in adult and congenital granular cell tumors. Filie AC, et al. **Mod Pathol** 1996 Sep;9(9):888–92

Granular cell tumor expressing myogenic markers in the prostate. Furihata M, et al. **Pathol Int** 1996 Apr; 46(4):298–300

PATHOLOGY

Granular cell tumor of uncertain malignant potential. Menaker GM, et al. **Ann Plast Surg** 1997 Jun;38(6):658–60

Pathological case of the month. Granular cell tumor. Buchino JJ, et al. **Arch Pediatr Adolesc Med** 1997 Feb;151(2):205–6

Granular–cell tumours: an immunohistochemical study. Junquera LM, et al. **Br J Oral Maxillofac Surg** 1997 Jun; 35(3):180–4

Myoblastomatoid carcinoma of the breast: an unusual variant of apocrine carcinoma: report of a case with fine–needle aspiration cytology and immunohistochemical study. Cohen H, et al. **Diagn Cytopathol** 1997 Feb;16(2):145–8

Fine–needle aspirates of granular cell lesions of the breast: report of three cases, with emphasis on differential diagnosis and utility of immunostaining for CD68 (KP1). Sirgi KE, et al. **Diagn Cytopathol** 1996 Dec;15(5):403–8

Malignant granular cell tumor: a case report and review of the recent literature. Simsir A, et al. **Hum Pathol** 1996 Aug; 27(8):853–8 (40 ref.)

Multiple cutaneous granular cell tumors in a child with possible neurofibromatosis. Sahn EE, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 2):327–30

Oral granular cell tumours: a histological and immunocytochemical study. Williams HK, et al. **J Oral Pathol Med** 1997 Apr;26(4):164–9

Granular cell myoblastoma. Review of the literature and report of a case. Zangari F, et al. **Minerva Stomatol** 1996 May;45(5):231–7 (51 ref.)

Epibulbar granular cell tumor. Report of a case and review of the literature. Charles NC, et al. **Ophthalmology** 1997 Sep;104(9):1454–6 (18 ref.)

Granular cell tumour and leiomyomatosis of the esophagus—a non–coincidental association? Marinho A, et al. **Pathol Res Pract** 1996 May;192(5):492–5

Gingival granular cell myoblastoma in newborns. Report of two cases. Rabczyński J, et al. **Pol J Pathol** 1997; 48(2):131–3

"Have you seen this?" Granular cell uterine tumor in a CD–1 mouse. Morton D, et al. **Toxicol Pathol** 1997 Jul–Aug; 25(4):409

Morphological and ultrastructural study of the histogenesis of meningeal granular cell tumors in rats. Yoshida T, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):211–6

[Malignant granular cell tumor. Report of a clinico–pathologic case] Rochaix P, et al. **Ann Pathol** 1996 Sep;16(4):292–5 (32 ref.) (Eng. Abstr.) **(Fre)**

[Association of a granular–cell tumor with an epidermoid carcinoma of the esophagus] Perego P, et al. **Pathologica** 1995 Oct;87(5):551–3 (Eng. Abstr.) **(Ita)**

[Clinical and histopathological studies of granular cell tumor of the tongue] Yao K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 May;100(5):484–91 (Eng. Abstr.) **(Jpn)**

[Granular cell tumor of the larynx] Leache Pueyo JJ, et al. **An Otorrinolaringol Ibero Am** 1997;24(1):49–56 (Eng. Abstr.) **(Spa)**

[Granular cell bronchial myoblastoma associated with carcinoma (letter)] Atorrasagasti NM, et al. **Arch Bronconeumol** 1996 Jan;32(1):50–1 **(Spa)**

RADIOGRAPHY

Granular cell tumour of the trachea: case report. Raymond GS, et al. **Can Assoc Radiol J** 1997 Feb;48(1):48–50

Retroperitoneal granular cell tumor. Computed tomography findings with 5–year follow–up. Varma DG, et al. **Clin Imaging** 1996 Oct–Dec;20(4):279–81

Breast imaging case of the day. Granular cell tumor. Tobin CE, et al. **Radiographics** 1996 Jul;16(4):983–5

SURGERY

Synchronous lingual granular cell tumor and squamous carcinoma. A case report and review of the literature. Said–al–Naief N, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):543–7 (48 ref.)

A malignant granular cell tumor of the stomach: report of a case. Matsumoto H, et al. **Surg Today** 1996;26(2):119–22

THERAPY

Simple endoscopic treatment of a granular–cell tumor of the esophagus. Maccarini MR, et al. **Endoscopy** 1996 Oct; 28(8):730–1

ULTRASTRUCTURE

Morphological and ultrastructural study of the histogenesis of meningeal granular cell tumors in rats. Yoshida T, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):211–6

GRANULAR CELL TUMOR

VETERINARY

Granular cell tumour in the bronchus of a horse. Goodchild LM, et al. **Aust Vet J** 1997 Jan;75(1):16–8

Proliferative optic neuropathy in a horse caused by a granular cell tumour. Riis RC, et al. **Equine Vet J Suppl** 1990 Sep; (10):69–72

"Have you seen this?" Granular cell uterine tumor in a CD–1 mouse. Morton D, et al. **Toxicol Pathol** 1997 Jul–Aug; 25(4):409

GRANULAR DYSTROPHY, CORNEAL see **CORNEAL DYSTROPHIES, HEREDITARY**

GRANULATION TISSUE

CHEMISTRY

Dynamic distribution of basic fibroblast growth factor during epulis formation: an immunohistochemical study in an enhanced healing process of the gingiva. Murata M, et al. **J Oral Pathol Med** 1997 May;26(5):224–32

Significance of granulation tissue in torn supraspinatus insertions: an immunohistochemical study with antibodies against interleukin–1 beta, cathepsin D, and matrix metalloprotease–1. Gotoh M, et al. **J Orthop Res** 1997 Jan; 15(1):33–9

Ultrastructure of collagen fibers in the outer membrane of recurrent chronic subdural hematoma. Takahashi Y, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):627–30; discussion 630–1

DRUG EFFECTS

The effect of tumor necrosis factor–alpha on wound healing. An experimental study. Rapala K.
Ann Chir Gynaecol Suppl 1996;211:1–53

The effects of interleukin–1 and prostaglandin E2 on accumulation of collagen and steady–state levels of pro alpha 1(I) collagen messenger RNA in experimental granulation tissue in rats. Rapala K, et al.
Arch Dermatol Res 1997 Mar;289(4):219–23

Enhanced angiogenesis and granulation tissue formation by basic fibroblast growth factor in healing–impaired animals. Okumura M, et al. **Arzneimittelforschung** 1996 Oct; 46(10):1021–6

Accelerative effect of "nanshikon" and its constituents on the proliferation of granulation tissue in rats. Ozaki Y, et al. **Biol Pharm Bull** 1996 Feb;19(2):233–6

Stimulation of fibroblast cell growth, matrix production, and granulation tissue formation by connective tissue growth factor. Frazier K, et al. **J Invest Dermatol** 1996 Sep; 107(3):404–11

METABOLISM

Human granulation–tissue fibroblasts show enhanced proteoglycan gene expression and altered response to TGF–beta 1. Häkkinen L, et al. **J Dent Res** 1996 Oct; 75(10):1767–78

Histochemical demonstration of nitric oxide in herniated lumbar discs. A clinical and animal model study. Hashizume H, et al. **Spine** 1997 May 15;22(10):1080–4

PATHOLOGY

Arachnoid granulations of the posterior fossa: CT and MR findings. Okamoto K, et al. **Clin Imaging** 1997 Jan–Feb; 21(1):1–5

Molecular analysis of different phases in human wound healing. Petri JB, et al. **Exp Dermatol** 1997 Jun;6(3):133–9

Viscose cellulose sponge as an implantable matrix: changes in the structure increase the production of granulation tissue. Pajulo O, et al. **J Biomed Mater Res** 1996 Nov; 32(3):439–46

A histological study of Dermagraft–TC in patients' burn wounds. Spielvogel RL. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S16–8

"Congenital" trigger thumb caused by intratendinous granulation tissue. Chia J, et al. **J Hand Surg [Br]** 1996 Oct;21(5):612–3

PHYSIOLOGY

Mesenchymal cell activation is the rate–limiting step of granulation tissue induction. McClain SA, et al.
Am J Pathol 1996 Oct;149(4):1257–70

Impairment of granulation tissue formation after menopause. Gniadecki R, et al. **J Endocrinol Invest** 1996 Apr; 19(4):215–8

Role of macrophages in the stimulation and regeneration of sensory nerves by transposed granulation tissue and temporal aspects of the response. Miyauchi A, et al.
Scand J Plast Reconstr Surg Hand Surg 1997 Mar; 31(1):17–23

[Systemic and local administration of interferon–gamma impairs wound healing] Fu X, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 May;11(3):209–11 (Eng. Abstr.) **(Chi)**

[A new model of quantitative analysis of wound healing of open wounds] Koschnick M, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:511–4 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Prevalence of arachnoid granulations as detected with CT venography of the dural sinuses [letter; comment] Casey SO, et al. **AJNR Am J Neuroradiol** 1997 May;18(5):993–4 . Comment on: AJNR Am J Neuroradiol 1996 Apr;17(4):677–83.

SURGERY

Suprastomal granulation tissue and pediatric tracheotomy decannulation. Merritt RM, et al. **Laryngoscope** 1997 Jul; 107(7):868–71

GRANULOCYTE COLONY–STIMULATING FACTOR

see related
RECEPTORS, GRANULOCYTE COLONY–STIMULATING FACTOR

Cytokine therapy after bone marrow transplantation. Dix SP, et al. **Pharmacotherapy** 1996 Jul–Aug;16(4):593–608 (68 ref.)

ADMINISTRATION & DOSAGE

Pharmacokinetics of intravenous recombinant human granulocyte colony–stimulating factor (rhG–CSF) in children receiving myelosuppressive cancer chemotherapy: clearance increases in relation to absolute neutrophil count with repeated dosing. Sturgill MG, et al.
Am J Hematol 1997 Feb;54(2):124–30

Different doses of granulocyte colony stimulating factor to support a weekly chemotherapeutic regimen in advanced gastric cancer: a randomized study. Cascinu S, et al.
Anticancer Drugs 1996 Jan;7(1):43–7

Factors influencing the haematological recovery after allogeneic bone marrow transplantation in leukaemia patients treated with methotrexate–containing GVHD prophylaxis: a single–centre experience. Hassan HT, et al.
Anticancer Res 1997 Jan–Feb;17(1B):589–99

The clinical applications of granulocyte colony–stimulating factor in hematopoietic stem cell transplantation: a review. Tabbara IA, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3901–5 (43 ref.)

Intermediate dose cyclophosphamide combined with a growth factor is a safe and effective regimen for mobilisation of peripheral blood progenitor cells. Goss G, et al. **Aust N Z J Med** 1996 Jun;26(3):411–3

Synergistic effects of thrombopoietin and granulocyte colony–stimulating factor on neutrophil recovery in myelosuppressed mice. Grossmann A, et al. **Blood** 1996 Nov 1;88(9):3363–70

Mobilization of CD34+ progenitor cells by granulocyte colony–stimulating factor in human immunodeficiency virus type 1–infected adults. Slobod KS, et al. **Blood** 1996 Nov 1;88(9):3329–35

Effect of CD34+ selection and various schedules of stem cell reinfusion and granulocyte colony–stimulating factor priming on hematopoietic recovery after high–dose chemotherapy for breast cancer. Somlo G, et al. **Blood** 1997 Mar 1;89(5):1521–8

Increased numbers of long–term culture–initiating cells in the apheresis product of patients randomized to receive increasing doses of stem cell factor administered in combination with chemotherapy and a standard dose of granulocyte colony–stimulating factor. Weaver A, et al. **Blood** 1996 Nov 1;88(9):3323–8

Granulocyte colony–stimulating factor reduces the capacity of blood mononuclear cells to induce graft–versus–host disease: impact on blood progenitor cell transplantation. Zeng D, et al. **Blood** 1997 Jul 1;90(1):453–63

Randomized trial with or without granulocyte colony–stimulating factor as adjunct to induction VNCOP–B treatment of elderly high–grade non–Hodgkin's lymphoma. Zinzani PL, et al. **Blood** 1997 Jun 1; 89(11):3974–9

Comparison of peripheral blood progenitor cell mobilization in patients with multiple myeloma: high–dose cyclophosphamide plus GM–CSF vs G–CSF alone. Alegre A, et al. **Bone Marrow Transplant** 1997 Aug;20(3):211–7

Lenograstim administration to HLA–identical donor–recipient pairs to accelerate marrow recovery post–transplant. Atkinson K, et al.
Bone Marrow Transplant 1997 Jan;19(1):15–21

G–CSF post–autologous progenitor cell transplantation: a randomized study of 5, 10, and 16 micrograms/kg/day. Bolwell B, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):215–9

Mobilization of peripheral stem cells with intensive chemotherapy (ICE regimen) and G–CSF in chronic myeloid leukemia. Boqué C, et al.
Bone Marrow Transplant 1996 Nov;18(5):879–84

G–CSF primed peripheral blood progenitor cells (PBPC) autotransplantation in stage IV Neuroblastoma and poor risk solid tumors. Dallorso S, et al.
Bone Marrow Transplant 1996 Nov;18 Suppl 2:182–4

Blood progenitor cell (BPC) mobilization studied in multiple myeloma, solid tumor and non–Hodgkin's lymphoma patients after combination chemotherapy and G–CSF. Engelhardt M, et al. **Bone Marrow Transplant** 1997 Mar; 19(6):529–37

Administration of G–CSF can be delayed after transplantation of autologous G–CSF–primed blood stem cells: a randomized study. Faucher C, et al.
Bone Marrow Transplant 1996 Apr;17(4):533–6

Cyclophosphamide 3 g/m2 and G–CSF is an effective and safe outpatient–based PBSC mobilising regimen: a single centre experience [letter] Jindra P, et al.
Bone Marrow Transplant 1997 Jul;20(1):91–3

Polychemotherapy combined with G–CSF–mobilized donor buffy coat transfusion for granulocytic sarcoma after allogeneic BMT for AML. Nachbaur D, et al.
Bone Marrow Transplant 1997 May;19(9):947–9

Use of continuous infusion granulocyte–macrophage colony–stimulating factor alone or followed by granulocyte colony–stimulating factor to enhance engraftment following high–dose chemotherapy and autologous bone marrow transplantation for lymphoid malignancies. Vose JM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):951–6

Phase I study of simultaneous dose escalation and schedule acceleration of cyclophosphamide–doxorubicin–etoposide using granulocyte colony–stimulating factor with or without antimicrobial prophylaxis in patients with small–cell lung cancer. Ardizzoni A, et al. **Br J Cancer** 1996 Oct;74(7):1141–7

High–dose carboplatin, etoposide and melphalan (CEM) with peripheral blood progenitor cell support as late intensification for high–risk cancer: non–haematological, haematological toxicities and role of growth factor administration. Benedetti Panici P, et al. **Br J Cancer** 1997; 75(8):1205–12

CODE chemotherapy with and without granulocyte colony–stimulating factor in small–cell lung cancer. Fukuoka M, et al. **Br J Cancer** 1997;75(2):306–9

Use of cytokines in clozapine–induced agranulocytosis [see comments] Chin–Yee I, et al. **Can J Psychiatry** 1996 Jun; 41(5):280–4 (42 ref.). Comment in: Can J Psychiatry 1996 Nov;41(9):603.

Phase II study of intensive chemotherapy with carboplatin, ifosfamide and etoposide plus recombinant human granulocyte colony–stimulating factor and sequential radiotherapy in locally advanced, unresectable non–small–cell lung cancer. Scagliotti GV, et al.
Cancer Chemother Pharmacol 1996;38(6):561–5

Effects of granulocyte–colony–stimulating factor and interleukin–2 on ascites formation and the survival time of nude mice bearing human ovarian cancer cells. Kikuchi Y, et al. **Cancer Immunol Immunother** 1996 Dec; 43(5):257–61

Disseminated zygomycosis in a neutropenic patient: successful treatment with amphotericin B lipid complex and granulocyte colony–stimulating factor. Gonzalez CE, et al. **Clin Infect Dis** 1997 Feb;24(2):192–6 (37 ref.)

Mobilization of peripheral blood progenitor cells for allogeneic transplantation. Teshima A, et al.
Cytokines Cell Mol Ther 1997 Jun;3(2):101–14 (106 ref.)

Effects of in vivo administration of G–CSF on neutrophil functions in healthy volunteers. Höglund M, et al.
Eur J Haematol 1997 Mar;58(3):195–202

Effects of short–term in vivo administration of G–CSF on bone marrow prior to harvesting. Dicke KA, et al.
Exp Hematol 1997 Jan;25(1):34–8

Simultaneous administration of TPO and G–CSF after cytoreductive treatment of rhesus monkeys prevents thrombocytopenia, accelerates platelet and red cell reconstitution, alleviates neutropenia, and promotes the recovery of immature bone marrow cells. Neelis KJ, et al. **Exp Hematol** 1997 Sep;25(10):1084–93

Lack of efficacy of thrombopoietin and granulocyte colony–stimulating factor after high dose total–body irradiation and autologous stem cell or bone marrow transplantation in rhesus monkeys. Neelis KJ, et al.
Exp Hematol 1997 Sep;25(10):1094–103

High–dose granulocyte–colony stimulating factor (G–CSF) in vitro induces the growth of high proliferative potential colony forming cells (HPP–CFC) in patients undergoing blood stem cell mobilization. Perez–Oteyza J, et al.
Exp Hematol 1997 Jun;25(6):516–20

G–CSF–mobilized peripheral blood progenitor cells: in vitro growth pattern and hematopoietic growth factor receptor profile. Roberts AW, et al. **Exp Hematol** 1997 Apr; 25(4):298–305

Prophylactic granulocyte colony–stimulating factor allows escalation of chemotherapeutic dose intensity in advanced epithelial ovarian cancer. Fanning J, et al.
Gynecol Oncol 1996 Dec;63(3):323–7

Early hemopoietic progenitors in the peripheral blood of patients with severe aplastic anemia (SAA) after treatment with antilymphocyte globulin (ALG), cyclosporin–A and G–CSF. Bacigalupo A, et al. **Haematologica** 1997 Mar–Apr;82(2):133–7

Increased expression of the high–affinity receptor for IgG (FcRI, CD64) on neutrophils in multiple myeloma. Ohsaka A, et al. **Hematopathol Mol Hematol** 1996;10(3):151–60

Benefit of simultaneous rhG–CSF and methylprednisolone 'pulse' therapy for methotrexate–induced bone marrow failure in rheumatoid arthritis. Kondo H, et al.
Int J Hematol 1997 Feb;65(2):159–63

Treatment of acute myeloid leukemia and myelodysplastic syndrome with orally administered cytarabine ocfosfate and granulocyte colony–stimulating factor. Okumura H, et al.
Int J Hematol 1997 Apr;65(3):263–8

Administration of granulocyte colony–stimulating factor during remission induction therapy with all–trans retinoic

acid for acute promyelocytic leukemia. Usuki K, et al. **Int J Hematol** 1996 Oct;64(3–4):213–9

Concomitant and sequential administration of recombinant human granulocyte colony-stimulating factor and recombinant human interleukin-3 to accelerate hematopoietic recovery after autologous bone marrow transplantation for malignant lymphoma. Lemoli RM, et al. **J Clin Oncol** 1996 Nov;14(11):3018–25

Similar breast cancer cell contamination of single-day peripheral-blood progenitor-cell collections obtained after priming with hematopoietic growth factor alone or after cyclophosphamide followed by growth factor. Passos-Coelho JL, et al. **J Clin Oncol** 1996 Sep; 14(9):2569–75

Intensive sequential chemotherapy with repeated blood stem-cell support for untreated poor-prognosis non-Hodgkin's lymphoma [see comments] Stoppa AM, et al. **J Clin Oncol** 1997 May;15(5):1722–9. Comment in: J Clin Oncol 1997 May;15(5):1713–6.

Sequential use of G-CSF and GM-CSF after heart-lung transplantation [letter] Ippoliti G, et al. **J Heart Lung Transplant** 1997 Apr;16(4):473–5

Re: Adverse effect on bone marrow protection of prechemotherapy granulocyte colony-stimulating factor support [letter; comment] Ribas A, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):395–6. Comment on: J Natl Cancer Inst 1996 Oct 2;88(19):1393–8.

Effect of recombinant human granulocyte colony-stimulating factor on combination therapy with aztreonam and clindamycin for infections in neutropenic patients with hematologic diseases. Toyama K, et al. **Kansenshogaku Zasshi** 1996 Dec;70(12):1242–53

Decrease in Thy-1 expression on peripheral CD34 positive cells induced by G-CSF mobilization. The Tohoku Children Leukemia Study Group. Tsuchiya S, et al. **Tohoku J Exp Med** 1997 Jun;182(2):157–62

The kinetics of G-CSF mobilization of CD34+ cells in healthy people. Stroncek DF, et al. **Transfus Med** 1997 Mar;7(1):19–24

Mobilization kinetics of CD34+/Thy-1dim progenitor cells during recombinant human granulocyte-colony-stimulating factor administration in normal donors. Seong C, et al. **Transfusion** 1997 Apr; 37(4):406–10

[Contribution of hematopoietic growth factors and especially in the context of grafts of hematopoietic stem cells] Fouillard L. **Ann Pharm Fr** 1996;54(4):157–61 (Eng. Abstr.) **(Fre)**

[Treatment of drug-induced agranulocytosis with granulocyte colony stimulating factor (G-CSF) in a surgical intensive care unit] Huss B, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):529–30 (Eng. Abstr.) **(Ger)**

[Integration of G-CSF in prevention and therapy of neutropenic fever] Siegmund R, et al. **Med Klin** 1996 Feb 15;91(2):82–8 (77 ref.) **(Ger)**

[Effective administration of recombinant granulocyte colony-stimulating factor to prevent granulocytopenia due to combination chemotherapy for testicular germ cell tumors] Nonomura K, et al. **Hinyokika Kiyo** 1996 Sep; 42(9):699–704 (Eng. Abstr.) **(Jpn)**

[Effect of timing of granulocyte-colony stimulating factor administration on leukopenia induced by systemic chemotherapy in patients with non-small-cell lung cancer--multi-center randomized crossover study] Katakami N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):520–8 (Eng. Abstr.) **(Jpn)**

[Successful treatment with combination of all-trans retinoic acid (ATRA) and rhG-CSF a relapsed acute promyelocytic leukemia with umbilical tumor] Abe Y, et al. **Rinsho Ketsueki** 1996 Dec;37(12):1395–9 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Flare of psoriasis and psoriatic arthritis following treatment with granulocyte colony-stimulating factor [letter; comment] Kavanaugh A. **Am J Med** 1996 Nov; 101(5):567–8. Comment on: Am J Med 1995 Jun;98(6):589–91.

Spontaneous splenic rupture following administration of granulocyte colony-stimulating factor (G-CSF): occurrence in an allogeneic donor of peripheral blood stem cells. Becker PS, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):45–9

Prolonged thrombocytopenia after administration of granulocyte colony-stimulating factor and leukapheresis in a donor for allogeneic peripheral blood stem cell transplantation [letter] Okamoto S, et al. **Bone Marrow Transplant** 1996 Aug;18(2):482–3

Angina pectoris occurring during granulocyte colony-stimulating factor-combined preparatory regimen for autologous peripheral blood stem cell transplantation in a patient with acute myelogenous leukaemia. Fukumoto Y, et al. **Br J Haematol** 1997 Jun;97(3):666–8

Myelodysplasia following aplastic anaemia-paroxysmal nocturnal haemoglobinuria syndrome after treatment with immunosuppression and G-CSF: evidence for the emergence of a separate clone. Jin JY, et al. **Br J Haematol** 1996 Sep;94(3):510–2

Pulmonary toxicity in patients with advanced-stage germ cell tumors receiving bleomycin with and without granulocyte colony stimulating factor. Saxman SB, et al. **Chest** 1997 Mar;111(3):657–60

Safety of long-term administration of granulocyte colony-stimulating factor for severe chronic neutropenia. Freedman MH. **Curr Opin Hematol** 1997 May;4(3):217–24 (44 ref.)

Allergic skin reaction to GCSF in a patient with AIDS. Sullivan AK, et al. **Int J STD AIDS** 1997 Feb;8(2):135–6

Interstitial pneumonitis related to granulocyte colony-stimulating factor administration following chemotherapy for elderly patients with non-Hodgkin's lymphoma. Hasegawa Y, et al. **Intern Med** 1997 May; 36(5):360–4

Sweet's syndrome secondary to granulocyte colony-stimulating factor. Prevost-Blank PL, et al. **J Am Acad Dermatol** 1996 Dec;35(6):995–7

Sweet's syndrome induced by granulocyte colony-stimulating factor in a woman with congenital neutropenia. Richard MA, et al. **J Am Acad Dermatol** 1996 Oct;35(4):629–31

Worsening psoriasis after treatment with G-CSF in a patient with small-cell lung cancer [letter] Feliu J, et al. **J Natl Cancer Inst** 1997 Sep 3;89(17):1315–6

Re: Adverse effect on bone marrow protection of prechemotherapy granulocyte colony-stimulating factor support [letter; comment] Ribas A, et al. **J Natl Cancer Inst** 1997 Mar 5;89(5):395–6. Comment on: J Natl Cancer Inst 1996 Oct 2;88(19):1393–8.

Functional features of neutrophils induced by G-CSF and GM-CSF treatment: differential effects and clinical implications. Spiekermann K, et al. **Leukemia** 1997 Apr; 11(4):466–78 (182 ref.)

[Improvement of thrombocytopenia by administration of M-CSF in a patient with relapsed Philadelphia chromosome-positive acute lymphoblastic leukemia] Endo A, et al. **Rinsho Ketsueki** 1996 Sep;37(9):863–6 (Eng. Abstr.) **(Jpn)**

[Transformation of aplastic anemia to acute myeloid leukemia with myelofibrosis following treatment with granulocyte colony-stimulating factor and erythropoietin] Tsurumi H, et al. **Rinsho Ketsueki** 1996 Jul;37(7):630–2 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Cytokines in human breast milk. Wallace JM, et al. **Br J Biomed Sci** 1997 Jun;54(2):85–7

Granulocyte-colony stimulating factor concentrations in a patient with plasma cell dyscrasia and clinical features of chronic neutrophilic leukaemia. Nagai M, et al. **J Clin Pathol** 1996 Oct;49(10):858–60

ANTAGONISTS & INHIBITORS

Expression of the activated (Y501–F501) hck tyrosine kinase in 32Dcl3 myeloid cells prolongs survival in the absence of IL-3 and blocks granulocytic differentiation in response to G-CSF. English BK. **J Leukoc Biol** 1996 Nov; 60(5):667–73

Transcriptional activation potential of normal and tumor-associated myb isoforms does not correlate with their ability to block GCSF-induced terminal differentiation of murine myeloid precursor cells. Patel G, et al. **Oncogene** 1996 Sep 19;13(6):1197–208

BIOSYNTHESIS

Human endometrial expression of granulocyte colony-stimulating factor (G-CSF) and its receptor, stimulation of endometrial G-CSF production by interleukin-1 beta, and G-CSF inhibition of choriocarcinoma cell proliferation. Vandermolen DT, et al. **Am J Reprod Immunol** 1996 Nov;36(5):278–84

Granulocyte colony-stimulating factor (G-CSF) production in hemorrhagic shock requires both the ischemic and resuscitation phase. Hierholzer C, et al. **Arch Orthop Trauma Surg** 1997;116(3):173–6

Cytokine production and adhesive protein expression by endothelial cells after contact with polyethylene terephthalate. Cenni E, et al. **Biomaterials** 1996 Nov; 17(21):2071–6

A specific stimulator of granulocyte colony-stimulating factor accelerates recovery from cyclophosphamide-induced neutropenia in the mouse. Fine JS, et al. **Blood** 1997 Jul 15;90(2):795–802

Pyrrolidine dithiocarbamate inhibits the production of interleukin-6, interleukin-8, and granulocyte-macrophage colony-stimulating factor by human endothelial cells in response to inflammatory mediators: modulation of NF-kappa B and AP-1 transcription factors activity. Muñoz C, et al. **Blood** 1996 Nov 1;88(9):3482–90

Granulocyte-colony stimulating factor promotes invasion by human lung cancer cell lines in vitro. Pei XH, et al. **Clin Exp Metastasis** 1996 Sep;14(4):351–7

Granulocyte colony stimulating factor-producing tongue carcinoma. Horii A, et al. **Head Neck** 1997 Jul;19(4):351–6

Prolonged expression of therapeutic levels of human granulocyte colony-stimulating factor in rats following gene transfer to skeletal muscle. Bonham L, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1423–9

Granulocyte colony-stimulating factor expression from transduced vascular smooth muscle cells provides sustained neutrophil increases in rats. Lejnieks DV, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1431–6

Induction of granulocyte colony-stimulating factor by acute febrile infection but not by neutropenia in HIV-seropositive individuals. Mauss S, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Apr 15;14(5):430–4

Production of granulocyte colony stimulating factor, granulocyte macrophage colony stimulating factor, and tumor necrosis factor alpha during remission and infections in patients with acute leukemia. Duru F, et al. **J Med** 1995; 26(5–6):241–52

Production of granulocyte colony stimulating factor and granulocyte macrophage colony stimulating factor by carcinomas in a dog and a cat with paraneoplastic leukocytosis [letter; comment] Padrid P, et al. **J Vet Intern Med** 1997 Mar–Apr;11(2):95. Comment on: J Vet Intern Med 1996 Nov–Dec;10(6):405–8.

The human bladder carcinoma cell line 5637 constitutively secretes functional cytokines. Quentmeier H, et al. **Leuk Res** 1997 Apr;21(4):343–50

Factors influencing the efficiency of cationic liposome-mediated intravenous gene delivery. Liu Y, et al. **Nat Biotechnol** 1997 Feb;15(2):167–73

Vasoactive intestinal peptide (VIP) induces IL-6 and IL-8, but not G-CSF and GM-CSF release from a human bronchial epithelial cell line. Mullol J, et al. **Neuropeptides** 1997 Apr;31(2):119–24

Lung squamous cell carcinoma producing both parathyroid hormone-related peptide and granulocyte colony stimulating factor. Furihata M, et al. **Pathol Int** 1996 May; 46(5):376–9

Production of granulocyte colony-stimulating factor by the human placenta at various stages of development. Li Y, et al. **Placenta** 1996 Nov;17(8):611–7

[Case of G-CSF producing gallbladder neoplasm] Nakajima Y, et al. **Nippon Nsika Gakkai Zasshi** 1996 Nov 10; 85(11):1931–3 **(Jpn)**

[A case of G-CSF producing malignant fibrous histiocytoma of the small intestine] Chuma M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):340–5 **(Jpn)**

BLOOD

Plasma concentrations of granulocyte colony stimulating factor in preterm infants in the first few hours of life [letter; comment] Yurdakök M, et al. **Acta Paediatr** 1996 Nov; 85(11):1389–90. Comment on: Acta Paediatr 1996 Mar;85(3):351–5.

Blood concentrations of G-CSF and myelopoiesis in patients undergoing aortocoronary bypass surgery. Usui A, et al. **Ann Hematol** 1997 Apr;74(4):169–73

Plasma levels of granulocyte colony-stimulating factor in patients after allogeneic bone marrow transplantation for chronic myeloid leukemia correlate with engraftment of transplanted marrow. Busch FW, et al. **Bone Marrow Transplant** 1997 Apr;19(7):653–9

Increased serum human granulocyte colony-stimulating factor (G-CSF) levels following intravenous infusion of high-dose methylprednisolone. Wakayama T, et al. **Endocr J** 1996 Feb;43(1):67–72

Erythropoietin, granulocyte-colony stimulating factor, interleukin-1 beta and interleukin-6 during the normal menstrual cycle. Makinoda S, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):265–71

Circadian rhythm of plasma levels of endogenous granulocyte colony stimulating factor in healthy volunteers [letter] Takeuchi M, et al. **Int J Hematol** 1996 Oct; 64(3–4):293–5

Elevated plasma levels of interleukin-6, interleukin-8, and granulocyte colony-stimulating factor during and after major abdominal surgery. Kato M, et al. **J Clin Anesth** 1997 Jun;9(4):293–8

Granulocyte colony-stimulating factor and neonatal infection [letter; comment] Mizuno S. **J Pediatr** 1997 May; 130(5):844–6. Comment on: J Pediatr 1996 Jun;128(6):765–9.

Maternal serum granulocyte-colony stimulating factor in preterm birth with subclinical chorioamnionitis. Boggess KA, et al. **J Reprod Immunol** 1997 Apr;33(1):45–52

Elevation of serum G-CSF level in horses with transportation-induced fever. Momoi Y, et al. **J Vet Med Sci** 1996 Jun;58(6):537–41

Serum G-CSF levels in primary myelofibrosis and chronic neutrophilic leukemia as estimated by the highly sensitive chemiluminescence enzyme immunoassay (CLEIA). Saitoh H, et al. **Leuk Lymphoma** 1996 Aug;22(5–6):515–7

The influence of clozapine treatment on plasma granulocyte colony-stimulating (G-CSF) levels. Pollmächer T, et al. **Pharmacopsychiatry** 1997 Jul;30(4):118–21

[Eosinophil colony stimulating factor (Eo-CSF) activity and soluble interleukin-2 receptor (sIL-2R) in patients with reactive eosinophilia] Watanabe K, et al. **Arerugi** 1995 Nov; 44(11):1317–21 (Eng. Abstr.) **(Jpn)**

[Rapid progression of adenocarcinoma of the lung in a patient with high levels of granulocyte colony-stimulating factor] Tomizawa Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Nov; 34(11):1249–54 (Eng. Abstr.) **(Jpn)**

[Plasma macrophage colony-stimulating factor, granulocyte macrophage colony-stimulating factor and granulocyte colony-stimulating factor levels in continuous ambulatory peritoneal dialysis patients] Saionji K, et al. **Rinsho Byori** 1997 May;45(5):493–7 (Eng. Abstr.) **(Jpn)**

GRANULOCYTE COLONY-STIMULATING FACTOR

[Hematopoietic factors: serum concentrations and clinical application] Urabe A, et al. **Rinsho Ketsueki** 1997 May; 38(5):360–3 **(Jpn)**

CHEMISTRY

Preparation of pyridylaminated O–linked sugar chains from glycoproteins blotted on a polyvinylidene difluoride membrane and application to human granulocyte colony–stimulating factor. Oh–eda M, et al. **Anal Biochem** 1996 May 1;236(2):369–71

Structure of KW–2228, a tailored human granulocyte colony–stimulating factor with enhanced biological activity and stability. Fujii I, et al. **FEBS Lett** 1997 Jun 30; 410(2–3):131–5

Tertiary structural models for human interleukin–6 and evaluation by a sequence–structure compatibility method and NMR experimental information. Sumikawa H, et al. **FEBS Lett** 1997 Mar 10;404(2–3):234–40

DIAGNOSTIC USE

Usefulness of granulocyte count measurement four hours after injection of granulocyte colony–stimulating factor for detecting recovery from antithyroid drug–induced granulocytopenia. Tajiri J, et al. **Thyroid** 1997 Aug; 7(4):575–8

GENETICS

Ectopic G–CSF expression in human melanoma lines marks a trans–dominant pathway of tumor progression. Safarians S, et al. **Am J Pathol** 1997 Mar;150(3):949–62

Collagen as matrix for neo–organ formation by gene–transfected fibroblasts. Rosenthal FM, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1179–86

Cloning and expression of the cDNA encoding rat granulocyte colony–stimulating factor. Han SW, et al. **Gene** 1996 Oct 10;175(1–2):101–4

Expression of recombinant human granulocyte colony–stimulating factor in CHO dhfr– cells: new insights into the in vitro amplification expression system. Monaco L, et al. **Gene** 1996 Nov 21;180(1–2):145–50

Systemic hematological effects of granulocyte colony–stimulating factor produced by irradiated gene–transfected fibroblasts. Rosenthal FM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2147–56

Harlequin granulocyte–colony stimulating factor interleukin 6 molecules with bifunctional and antagonistic activities. Grazi Cusi M, et al. **Immunotechnology** 1997 Mar;3(1):61–9

Elevation of lymphocyte and hematopoietic stem cell numbers in mice transgenic for human granulocyte CSF. Yamada T, et al. **Lab Invest** 1996 Feb;74(2):384–94

High–level expression of a cDNA for human granulocyte colony–stimulating factor in Chinese hamster ovary cells. Effect of 3'–noncoding sequences. Rotondaro L, et al. **Mol Biotechnol** 1997 Jun;7(3):231–40

IMMUNOLOGY

Selective inhibition of resistance to hemopoietic allografts but not rejection to a natural killer cell sensitive tumor in transgenic mice for granulocyte colony stimulating factor. Kokai Y, et al. **Artif Organs** 1996 Aug;20(8):883–9

Immunophenotyping of peripheral blood mononuclear cells collected by cytotoxic and cytotoxic/G–CSF mobilization. Kubota A, et al. **Clin Lab Haematol** 1996 Sep;18(3):181–5

Neutralization of G–CSF inhibits ILK–induced heterophil influx: granulocyte–colony stimulating factor mediates the Salmonella enteritidis–immune lymphokine potentiation of the acute avian inflammatory response. Kogut MH, et al. **Inflammation** 1997 Feb;21(1):9–25

Modulation of the lung host response by granulocyte colony–stimulating factor in rats challenged with intrapulmonary endotoxin. Zhang P, et al. **Shock** 1997 Mar; 7(3):193–9

[Hematopoietic growth factors and anti–infective respiratory defenses] Gagnadoux F, et al. **Rev Mal Respir** 1997 Apr; 14(2):93–9 (40 ref.) (Eng. Abstr.) **(Fre)**

METABOLISM

Cytopathology of granulocyte colony–stimulating factor–producing lung adenocarcinoma [letter] Kimura M, et al. **Acta Cytol** 1997 May–Jun;41(3):952–3

Kinetic analysis of receptor–mediated endocytosis of G–CSF derivative, nartograstim, in rat bone marrow cells. Kuwabara T, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E73–84

Induction and postranslational expression of G–CSF and RANTES in a first trimester trophoblast cell line by lipopolysaccharide. Svinarich DM, et al. **Am J Reprod Immunol** 1996 Nov;36(5):256–9

Gene expression of granulocyte colony stimulating factor (G–CSF) in non–small cell lung cancer. Nakamura M, et al. **Anticancer Res** 1997 Jan–Feb;17(1B):573–6

Transitional cell carcinoma of the bladder producing granulocyte colony–stimulating factor: a case report of molecular diagnosis. Nemoto R, et al. **Br J Urol** 1996 Oct; 78(4):653–4

Cloning and expression of the cDNA encoding rat granulocyte colony–stimulating factor. Han SW, et al. **Gene** 1996 Oct 10;175(1–2):101–4

Dimerization of granulocyte–colony stimulating factor receptor: the Ig plus CRH construct of granulocyte–colony stimulating factor receptor forms a 2:2 complex with a ligand. Horan TP, et al. **J Biochem (Tokyo)** 1997 Feb; 121(2):370–5

Binding of NF–Y transcription factor to one of the cis–elements in the myeloperoxidase gene promoter that responds to granulocyte colony–stimulating factor. Orita T, et al. **J Biol Chem** 1997 Sep 12;272(37):23216–23

Granulocyte colony–stimulating factor and interleukin–6–producing lung cancer cell line, LCAM. Inoue M, et al. **J Surg Oncol** 1997 Apr;64(4):347–50

Production of granulocyte colony–stimulating factor and granulocyte–macrophage colony–stimulating factor by carcinomas in a dog and a cat with paraneoplastic leukocytosis [see comments] Sharkey LC, et al. **J Vet Intern Med** 1996 Nov–Dec;10(6):405–8. Comment in: J Vet Intern Med 1997 Mar–Apr;11(2):95.

B–cell–derived granulocyte–colony stimulating factor (G–CSF). Corcione A, et al. **Methods** 1997 Jan;11(1):143–7

Characterization of the receptor binding determinants of granulocyte colony stimulating factor. Young DC, et al. **Protein Sci** 1997 Jun;6(6):1228–36

[Production of G–CSF and IL–6 and activation of STAT proteins in mucosa and tunica muscularis of the jejunum in hemorrhagic shock] Hierholzer C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:579–83 (Eng. Abstr.) **(Ger)**

PHARMACOKINETICS

Pharmacokinetics of intravenous recombinant human granulocyte colony–stimulating factor (rhG–CSF) in children receiving myelosuppressive cancer chemotherapy: clearance increases in relation to absolute neutrophil count with repeated dosing. Sturgill MG, et al. **Am J Hematol** 1997 Feb;54(2):124–30

Pulmonary absorption of recombinant human granulocyte colony–stimulating factor (rhG–CSF) after intratracheal administration to rats. Machida M, et al. **Biol Pharm Bull** 1996 Feb;19(2):259–62

Pharmacokinetics and pharmacodynamics of a recombinant human granulocyte colony–stimulating factor. Kuwabara T, et al. **Drug Metab Rev** 1996 Nov;28(4):625–58 (66 ref.)

Pharmacokinetic studies of intravenous glycosylated recombinant human granulocyte colony–stimulating factor in various hematological disorders: inverse correlation between the half–life and bone marrow myeloid cell pool. Watari K, et al. **Int J Hematol** 1997 Jul;66(1):57–67

PHARMACOLOGY

Splenic hematopoiesis after granulocyte–colony stimulating factor therapy in a lupus patient [letter] Tsoi WC, et al. **Am J Hematol** 1996 Dec;53(4):283–4 (4 ref.)

Human endometrial expression of granulocyte colony–stimulating factor (G–CSF) and its receptor, stimulation of endometrial G–CSF production by interleukin–1 beta, and G–CSF inhibition of choriocarcinoma cell proliferation. Vandermolen DT, et al. **Am J Reprod Immunol** 1996 Nov;36(5):278–84

Regulation of immunomodulatory functions by granulocyte–macrophage colony–stimulating factor and granulocyte colony–stimulating factor in vivo. Aman MJ, et al. **Ann Hematol** 1996 Nov;73(5):231–8

G–CSF and cyclosporin induce an increase of normal cells in hypoplastic paroxysmal nocturnal hemoglobinuria. Schubert J, et al. **Ann Hematol** 1997 May;74(5):225–30

Allogeneic transplantation of peripheral blood progenitor cells. Link H, et al. **Ann Oncol** 1996;7 Suppl 2:41–5 (43 ref.)

Effect of granulocyte colony stimulating factor on pig blood platelets treated with cisplatin in vitro. Olas B, et al. **Anticancer Drugs** 1997 Feb;8(2):204–9

Dose intensification of chemotherapy and the role of granulocyte colony stimulating factor and granulocyte macrophage colony stimulating factor in small cell lung cancer. Tjan–Heijnen VC, et al. **Anticancer Drugs** 1997 Jul; 8(6):549–64 (125 ref.)

Priming of neutrophil and monocyte activation in human immunodeficiency virus infection. Comparison of granulocyte colony–stimulating factor, granulocyte–macrophage colony–stimulating factor and interferon–gamma. Meyer CN, et al. **APMIS** 1996 Sep; 104(9):640–6

G–CSF stimulated donor granulocyte collections for prophylaxis and therapy of neutropenic sepsis. Grigg A, et al. **Aust N Z J Med** 1996 Dec;26(6):813–8

cAMP suppresses p21ras and Raf–1 responses but not the Erk–1 response to granulocyte–colony–stimulating factor: possible Raf–1–independent activation of Erk–1. Csar XF, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):79–87

Long–term engraftment, graft–vs.–host disease, and immunologic reconstitution after experimental transplantation of allogeneic peripheral blood cells from G–CSF–treated donors. Pan L, et al. **Biol Blood Marrow Transplant** 1996 Oct;2(3):126–33

Biologic and clinical effects of granulocyte colony–stimulating factor in normal individuals. Anderlini P, et al. **Blood** 1996 Oct 15;88(8):2819–25 (76 ref.)

Inhibition of human immunodeficiency virus–1 (HIV–1) replication after transduction of granulocyte colony–stimulating factor–mobilized CD34+ cells from HIV–1–infected donors using retroviral vectors containing anti–HIV–1 genes. Bauer G, et al. **Blood** 1997 Apr 1; 89(7):2259–67

Granulocyte colony–stimulating factor activation of Stat3 alpha and Stat3 beta in immature normal and leukemic human myeloid cells. Chakraborty A, et al. **Blood** 1996 Oct 1;88(7):2442–9

A specific stimulator of granulocyte colony–stimulating factor accelerates recovery from cyclophosphamide–induced neutropenia in the mouse. Fine JS, et al. **Blood** 1997 Jul 15;90(2):795–802

Quantitative and cell–cycle differences in progenitor cells mobilized by recombinant human interleukin–7 and recombinant human granulocyte colony–stimulating factor. Grzegorzewski KJ, et al. **Blood** 1996 Dec 1;88(11):4139–48

Prevention of thrombocytopenia and neutropenia in a nonhuman primate model of marrow suppressive chemotherapy by combining pegylated recombinant human megakaryocyte growth and development factor and recombinant human granulocyte colony–stimulating factor. Harker LA, et al. **Blood** 1997 Jan 1;89(1):155–65

Hematopoietic potential and retroviral transduction of CD34+ Thy–1+ peripheral blood stem cells from asymptomatic human immunodeficiency virus type–1–infected individuals mobilized with granulocyte colony–stimulating factor. Junker U, et al. **Blood** 1997 Jun 15;89(12):4299–306

Granulocyte colony–stimulating factor–induced comobilization of CD4– CD8– T cells and hematopoietic progenitor cells (CD34+) in the blood of normal donors. Kusnierz–Glaz CR, et al. **Blood** 1997 Apr 1;89(7):2586–95

Cycling status of CD34+ cells mobilized into peripheral blood of healthy donors by recombinant human granulocyte colony–stimulating factor. Lemoli RM, et al. **Blood** 1997 Feb 15;89(4):1189–96

Suppression of alloantigen–induced T–cell proliferation by CD14+ cells derived from granulocyte colony–stimulating factor–mobilized peripheral blood mononuclear cells. Mielcarek M, et al. **Blood** 1997 Mar 1;89(5):1629–34

Flt–3 ligand synergizes with granulocyte colony–stimulating factor to increase neutrophil numbers and to mobilize peripheral blood stem cells with long–term repopulating potential. Molineux G, et al. **Blood** 1997 Jun 1; 89(11):3998–4004

Responses of granulocyte colony–stimulating factor–mobilized peripheral blood mononuclear cells to alloantigen stimulation [letter] Nawa Y, et al. **Blood** 1997 Aug 15;90(4):1716–8

In vivo effects of Flt3/Flk2 ligand on mobilization of hematopoietic progenitors in primates and potent synergistic enhancement with granulocyte colony–stimulating factor. Papayannopoulou T, et al. **Blood** 1997 Jul 15;90(2):620–9

Primitive long–term culture initiating cells (LTC–ICs) in granulocyte colony–stimulating factor mobilized peripheral blood progenitor cells have similar potential for ex vivo expansion as primitive LTC–ICs in steady state bone marrow. Prosper F, et al. **Blood** 1997 Jun 1;89(11):3991–7

Genetic influences determining progenitor cell mobilization and leukocytosis induced by granulocyte colony–stimulating factor. Roberts AW, et al. **Blood** 1997 Apr 15;89(8):2736–44

Influence of interleukin–3 and other growth factors on alpha4beta1 integrin–mediated adhesion and migration of human hematopoietic progenitor cells. Schofield KP, et al. **Blood** 1997 Sep 1;90(5):1858–66

Jak1 plays an essential role for receptor phosphorylation and Stat activation in response to granulocyte colony–stimulating factor. Shimoda K, et al. **Blood** 1997 Jul 15;90(2):597–604

Synergistic effect of FLT–3 ligand on the granulocyte colony–stimulating factor–induced mobilization of hematopoietic stem cells and progenitor cells into blood in mice. Sudo Y, et al. **Blood** 1997 May 1;89(9):3186–91

Circulating immature cell counts on the harvest day predict the yields of CD34+ cells collected after granulocyte colony–stimulating factor plus chemotherapy–induced mobilization of peripheral blood stem cell [letter] Teshima T, et al. **Blood** 1997 Jun 15;89(12):4660–1

Autologous stem cell transplantation: exogenous granulocyte colony–stimulating factor or granulocyte–macrophage colony–stimulating factor modulate the endogenous cytokine levels [letter] Testa U, et al. **Blood** 1997 Apr 1; 89(7):2615–7

Multiple signaling pathways induced by granulocyte colony–stimulating factor involving activation of JAKs, STAT5, and/or STAT3 are required for regulation of three distinct classes of immediate early genes. Tian SS, et al. **Blood** 1996 Dec 15;88(12):4435–44

Granulocyte colony–stimulating factor mobilizes into peripheral blood the complete clonal repertoire of hematopoietic precursors residing in the bone marrow of mice. Varas F, et al. **Blood** 1996 Oct 1;88(7):2495–501

G–CSF mobilization of haemopoietic cell populations in SCID mice engrafted with human leukaemia. Clutterbuck RD, et al. **Bone Marrow Transplant** 1997 Aug;20(4):325–32

Autologous transplantation with peripheral blood stem cells collected after granulocyte colony–stimulating factor in patients with acute myelogenous leukemia. Demirer T, et al. **Bone Marrow Transplant** 1996 Jul;18(1):29–34

Dose–dependent mobilisation of haematopoietic progenitor cells in healthy volunteers receiving glycosylated rHuG–CSF. Höglund M, et al. **Bone Marrow Transplant** 1996 Jul;18(1):19–27

G-CSF stimulation of donor myelopoiesis prolongs survival of relapsed BCR-ABL-positive acute lymphoblastic leukemia after allogeneic marrow transplantation. Keil F, et al. **Bone Marrow Transplant** 1996 Sep;18(3):655-7

Peripheral blood progenitor cell transplantation: a single centre experience comparing two mobilisation regimens in 67 patients. Mahendra P, et al. **Bone Marrow Transplant** 1996 Apr;17(4):503-7 (14 ref.)

Mobilized peripheral blood progenitor cells (PBPC) in support of tandem cycles of high-dose chemotherapy (HDC). Meisenberg BR, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1087-93

Peripheral blood stem cell (PBSC) collection in extremely low-weight infants. Nussbaumer W, et al. **Bone Marrow Transplant** 1996 Jul;18(1):15-7

G-CSF (filgrastim)-stimulated whole blood kept unprocessed at 4 degrees C does support a BEAM-like regimen in bad-risk lymphoma. Ossenkoppele GJ, et al. **Bone Marrow Transplant** 1996 Aug;18(2):427-31

Successful engraftment after primary graft failure in aplastic anemia using G-CSF mobilized peripheral stem cell transfusions. Redei I, et al. **Bone Marrow Transplant** 1997 Jan;19(2):175-7

Separation of chemotherapy plus G-CSF-mobilized peripheral blood mononuclear cells by counterflow centrifugal elutriation: in vitro characterization of two different CD34+ cell populations. Teofili L, et al. **Bone Marrow Transplant** 1996 Aug;18(2):421-5

Effect of the in vivo priming regimen for peripheral blood stem cells (PBSC) mobilization on in vitro generation of cytotoxic effectors by IL-2 activation of PBSC in a murine model. Verma UN, et al. **Bone Marrow Transplant** 1997 Feb;19(3):265-73

Primary proliferating immature myeloid cells from CML patients are not resistant to induction of apoptosis by DNA damage and growth factor withdrawal. Albrecht T, et al. **Br J Haematol** 1996 Dec;95(3):501-7

The purification of CD34 cells from human cord blood: comparison of separation techniques and cytokine requirements for optimal growth of clonogenic progenitors. Charbord P, et al. **Br J Haematol** 1996 Sep;94(3):449-54

Differential modulation of IL-1-induced endothelial adhesion molecules and transendothelial migration of granulocytes by G-CSF. Eissner G, et al. **Br J Haematol** 1997 Jun;97(4):726-33

Administration of G-CSF to healthy subjects: the effects on eosinophil counts and mobilization of eosinophil granule proteins. Karawajczyk M, et al. **Br J Haematol** 1997 Feb; 96(2):259-65

Ex vivo neutrophil function in response to three different doses of glycosylated rHuG-CSF (Lenograstim). Turzanski J, et al. **Br J Haematol** 1997 Jan;96(1):46-54

In vivo haemoprotective activity of tetrapeptide AcSDKP combined with granulocyte-colony stimulating factor following sublethal irradiation. Watanabe T, et al. **Br J Haematol** 1996 Sep;94(4):619-27

Crossover study of the haematological effects and pharmacokinetics of glycosylated and non-glycosylated G-CSF in healthy volunteers. Watts MJ, et al. **Br J Haematol** 1997 Aug;98(2):474-9

Comparison of the potency of glycosylated and nonglycosylated recombinant human granulocyte colony-stimulating factors in neutropenic and nonneutropenic CD rats. Nohynek GJ, et al. **Cancer Chemother Pharmacol** 1997;39(3):259-66

Efficacy of recombinant granulocyte colony-stimulating factor (rhG-CSF) in experimental colitis. Hommes DW, et al. **Clin Exp Immunol** 1996 Dec;106(3):529-33

Granulocyte-colony stimulating factor promotes invasion by human lung cancer cell lines in vitro. Pei XH, et al. **Clin Exp Metastasis** 1996 Sep;14(4):351-7

Effects of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor on the bactericidal functions of neutrophils. Pitrak DL. **Curr Opin Hematol** 1997 May;4(3):183-90 (76 ref.)

Effect of granulocyte-macrophage colony stimulating factor and granulocyte colony stimulating factor on prolactin and adrenocorticotropic hormone secretion in rats: dose- and time-response in vivo studies. Komorowski J, et al. **Cytobios** 1996;86(346):147-53

Effects of repeated administration of granulocyte colony-stimulating factor (G-CSF) on neutrophil counts, plasma cytokine, and cytokine receptor levels. Pollmächer T, et al. **Cytokine** 1996 Oct;8(10):799-803

Three types of recombinant human granulocyte colony-stimulating factor have equivalent biological activities in monkeys. Tanaka H, et al. **Cytokine** 1997 May; 9(5):360-9

G-CSF activates STAT pathways in Kasumi-1 myeloid leukemic cells with the t(8; 21) translocation: basis for potential therapeutic efficacy. Da Silva N, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):75-80

Effect of granulocyte-colony stimulating factor on generation of oxygen-derived free radicals and myeloperoxidase activity in neutrophils from poorly controlled NIDDM patients. Sato N, et al. **Diabetes** 1997 Jan;46(1):133-7

Reduced hydrogen peroxide production in neutrophils from patients with diabetes. Inoue S, et al. **Diabetes Res Clin Pract** 1996 Jul;33(2):119-27

Pharmacokinetics and pharmacodynamics of a recombinant human granulocyte colony-stimulating factor. Kuwabara T, et al. **Drug Metab Rev** 1996 Nov;28(4):625-58 (66 ref.)

Granulocyte colony-stimulating factor administration reverses cadmium-associated inhibition of hepatocyte regeneration. Theocharis SE, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):805-9

Transduction of retrovirus-mediated NeoR gene into CD34+ cells purified from granulocyte colony-stimulating factor (G-CSF)-mobilized infant and cord blood. Abe T, et al. **Exp Hematol** 1997 Aug;25(9):966-71

Dissociation of the Jak kinase pathway from G-CSF receptor signaling in neutrophils. Avalos BR, et al. **Exp Hematol** 1997 Feb;25(2):160-8

Pluripotent and lineage-committed CD34+ subsets in leukapheresis products mobilized by G-CSF, GM-CSF vs. a combination of both. Ho AD, et al. **Exp Hematol** 1996 Nov;24(13):1460-8

Colony-forming cells expressing high levels of CD34 are the main targets for granulocyte colony-stimulating factor and macrophage colony-stimulating factor in the human fetal liver. Muench MO, et al. **Exp Hematol** 1997 Apr; 25(4):277-87

Granulocyte-colony stimulating factor and stem cell factor are the crucial factors in long-term culture of human primitive hematopoietic cells supported by a murine stromal cell line. Nishi N, et al. **Exp Hematol** 1996 Sep; 24(11):1312-21

Cell cycle modulation by hematopoietic growth factors in myelodysplastic syndromes: analysis by three-color flow cytometry. Ogata K, et al. **Exp Hematol** 1997 Jan; 25(1):8-18

RhG-CSF-mobilized CD34+ peripheral blood progenitors are myeloperoxidase-negative and noncycling irrespective of CD33 or CD13 coexpression. Rumi C, et al. **Exp Hematol** 1997 Mar;25(3):246-51

Increased G-CSF responsiveness of bone marrow cells from hematopoietic cell phosphatase deficient viable motheaten mice. Tapley P, et al. **Exp Hematol** 1997 Feb;25(2):122-31

Neutrophils pretreated with granulocyte colony-stimulating factor (G-CSF) are not related to the severity of endotoxin-induced lung injury. Koizumi T, et al. **Exp Lung Res** 1997 Sep-Oct;23(5):393-404

Aberrant activation of JAK/STAT pathway components in response to G-CSF, interferon-alpha/beta and interferon-gamma in NFS-60 cells. Novak U, et al. **Growth Factors** 1996;13(3-4):251-60

Sequential granulocyte colony-stimulating factor increases cisplatin cytotoxicity in human epithelial ovarian cancer cell lines. Fanning J, et al. **Gynecol Oncol** 1996 Mar; 60(3):450-3

Granulocyte colony-stimulating factor-primed leukocyte transfusions in candida tropicalis fungemia in neutropenic patients. Di Mario A, et al. **Haematologica** 1997 May-Jun; 82(3):362-3

Effects of macrophage- and granulocyte-colony stimulating factors on thymidylate synthase and thymidine kinase activity in rat hematopoietic cells. Kudo H, et al. **Haematologica** 1997 Mar-Apr;82(2):187-8

Two consecutive courses of rh-G-CSF-mobilized peripheral blood stem cells for primary marrow alloengraftment failure: case report. Martino M, et al. **Haematologica** 1996 Sep-Oct;81(5):464-7

Response of the blast stem cells of acute myeloblastic leukemia to G-CSF, GM-CSF, or the ligand for C-KIT, alone or in combination. McCulloch EA, et al. **Hematopathol Mol Hematol** 1996;10(3):111-22

Expression of differentiation antigens and adhesion molecules on CD34+ cells in peripheral blood and bone marrow after chemotherapy followed by administration of granulocyte colony stimulating factor. Masauzi N. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):771-83

Populations of thymocytes and peripheral blood leucocytes in leukaemia-bearing mice treated with G-CSF. Kawiak J, et al. **Immunol Cell Biol** 1996 Apr;74(2):163-6

Granulocyte colony-stimulating factor shortens the optimal interval of repetition of chemotherapy with cyclophosphamide in mice. Hattori K, et al. **In Vivo** 1996 May-Jun;10(3):361-8

Increased migration of neutrophils to granulocyte-colony stimulating factor in rat carrageenin-induced pleurisy: roles of complement, bradykinin, and inducible cyclooxygenase-2. Ogino M, et al. **Inflamm Res** 1996 Jul; 45(7):335-46

Effects of colony-stimulating factors (CSFs) on neutrophil apoptosis: possible roles at inflammation site. Hu B, et al. **Int J Hematol** 1997 Aug;66(2):179-88

Prediction of growth sensitivity of acute promyelocytic leukemia cells to granulocyte colony-stimulating factor using 7AAD/PY during administration of all-trans retinoic acid. Toba K, et al. **Int J Hematol** 1997 Aug;66(2):203-12

Controlled trials of rG-CSF and CD11b-directed MAb during hyperoxia and E. coli pneumonia in rats. Freeman BD, et al. **J Appl Physiol** 1996 Jun;80(6):2066-76

Involvement of STAT3 in the granulocyte colony-stimulating factor-induced differentiation of myeloid cells. Shimozaki K, et al. **J Biol Chem** 1997 Oct 3;272(40):25184-9

Granulocyte colony-stimulating factor-induced activation of protein kinase-C in myeloid cells. Deshpande RV, et al. **J Cell Biochem** 1997 Sep 1;66(3):286-96

Large-scale isolation of CD34+ cells using the Amgen cell selection device results in high levels of purity and recovery. McNiece I, et al. **J Hematother** 1997 Feb; 6(1):5-11

Recombinant human granulocyte-macrophage colony-stimulating factor (CSF), but not recombinant human granulocyte CSF, down-regulates the recombinant human stem cell factor-dependent differentiation of human fetal liver-derived mast cells. Du Z, et al. **J Immunol** 1997 Jul 15;159(2):838-45

In vivo effects of recombinant human granulocyte colony-stimulating factor on neutrophil oxidative functions in normal human volunteers. Allen RC, et al. **J Infect Dis** 1997 May;175(5):1184-92

Granulocyte colony-stimulating factor administered in vivo augments neutrophil-mediated activity against opportunistic fungal pathogens. Liles WC, et al. **J Infect Dis** 1997 Apr;175(4):1012-5

Optimal dose of enterococcal preparation (FK-23) supplemented perorally for stimulation of leukocyte reconstitution in dogs treated with cyclophosphamide. Kanasugi H, et al. **J Vet Med Sci** 1996 Jun;58(6):563-5

Interleukin-6 and granulocyte colony-stimulating factor synergistically increase peripheral blood progenitor cells in myelosuppressive mice. Suzuki H, et al. **Jpn J Cancer Res** 1996 Sep;87(9):938-44

Granulocyte-colony stimulating factor, granulocyte-macrophage colony stimulating factor and interleukin 4 induce differentiation in the U-937 human monocytic leukemia cell line. Koss A, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):163-71,follow.186,color plate XIV-V

Granulocyte-colony stimulating factor induced apoptosis in radiation-induced murine leukemia cell line. Handa A, et al. **Leukemia** 1997 Apr;11 Suppl 3:387-8

Selection and expansion of CD34+ cells. McNiece IK. **Nouv Rev Fr Hematol** 1995;37(6):375-6

Allogeneic transplantation of peripheral blood progenitor cells. Schmitz N. **Nouv Rev Fr Hematol** 1995;37(6):377-9

Effect of recombinant granulocyte colony-stimulating factor on erythropoiesis in the human fetus and neonate. Calhoun DA, et al. **Pediatr Res** 1996 Dec;40(6):872-5

Improved retroviral gene transfer into murine and Rhesus peripheral blood or bone marrow repopulating cells primed in vivo with stem cell factor and granulocyte colony-stimulating factor. Dunbar CE, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11871-6

Effects of granulocyte colony-stimulating factor on bacterial translocation due to burn wound sepsis. Yalçin O, et al. **Surg Today** 1997;27(2):154-8

Transfusions of granulocyte-colony-stimulating factor-mobilized granulocyte components to allogeneic transplant recipients: analysis of kinetics and factors determining posttransfusion neutrophil and platelet counts. Adkins D, et al. **Transfusion** 1997 Jul;37(7):737-48

A comparative trial of granulocyte-colony-stimulating factor and dexamethasone, separately and in combination, for the mobilization of neutrophils in the peripheral blood of normal volunteers. Liles WC, et al. **Transfusion** 1997 Feb; 37(2):182-7

False-positive hepatitis B surface antigen screening test results in patients receiving granulocyte-colony-stimulating factor. Mair DC, et al. **Transfusion** 1996 Nov-Dec;36(11-12):948-51 (11 ref.)

Blood counts in healthy donors 1 year after the collection of granulocyte-colony-stimulating factor-mobilized progenitor cells and the results of a second mobilization and collection. Stroncek DF, et al. **Transfusion** 1997 Mar; 37(3):304-8

Analysis of apheresis content of progenitor cell collections from normal donors to whom granulocyte-colony-stimulating factor is administered. Weinthal JA, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):943-7

Effect in supralethally irradiated rats of granulocyte colony-stimulating factor and lisofylline on hematopoietic reconstitution by syngeneic bone marrow or whole organ passenger leukocytes. Murase N, et al. **Transplantation** 1997 Jun 27;63(12):1840-3

Hematopoietic effects and clinical application of granulopoietic growth factors. Höglund M. **Ups J Med Sci** 1996;101(2):121-48 (232 ref.)

[Reduction of LPS-induced liver damage by G-CSF--an in vivo analysis of cellular mechanisms of hepatic microcirculatory disorders] Vollmar B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:607-11 (Eng. Abstr.) **(Ger)**

[The effect of recombinant human colony stimulating factor (G-CSF) on the function of human blood and urinary leukocytes] Ito M, et al. **Kansenshogaku Zasshi** 1996 Nov; 70(11):1140-6 (Eng. Abstr.) **(Jpn)**

[Combined deficiency in neutrophil functions after bone marrow transplantation and the in vitro effect of granulocyte colony-stimulating factor] Katoh M, et al. **Rinsho Ketsueki** 1997 Jul;38(7):566-71 (Eng. Abstr.) **(Jpn)**

[Current status and problems of G-CSF-induced mobilization of peripheral blood stem cell] Teshima T, et al. **Rinsho Ketsueki** 1997 Jun;38(6):479-83 **(Jpn)**

PHYSIOLOGY

Enhanced detection, maintenance, and differentiation of primitive human hematopoietic cells in cultures containing murine fibroblasts engineered to produce human steel factor, interleukin-3, and granulocyte colony-stimulating

factor. Hogge DE, et al. **Blood** 1996 Nov 15;88(10):3765–73

Role of granulocyte–macrophage colony–stimulating factor and granulocyte colony–stimulating factor in the development of an acute neutrophil inflammatory response in mice. Metcalf D, et al. **Blood** 1996 Nov 15;88(10):3755–64

Role of interleukin 1 and granulocyte colony-stimulating factor in photofrin–based photodynamic therapy of rat rhabdomyosarcoma tumors. de Vree WJ, et al. **Cancer Res** 1997 Jul 1;57(13):2555–8

Advances in understanding postreceptor signaling in response to granulocyte colony–stimulating factor. Tidow N, et al. **Curr Opin Hematol** 1997 May;4(3):171–5 (27 ref.)

Tyrosine residues in the granulocyte colony–stimulating factor (G–CSF) receptor mediate G–CSF–induced differentiation of murine myeloid leukemic (M1) cells. Nicholson SE, et al. **J Biol Chem** 1996 Oct 25; 271(43):26947–53

Interaction of tumor necrosis factor–alpha and granulocyte colony–stimulating factor on neutrophil apoptosis, receptor expression, and bactericidal function. Sullivan GW, et al. **Proc Assoc Am Physicians** 1996 Nov;108(6):455–66

Absence of granulocyte colony–stimulating factor signaling and neutrophil development in CCAAT enhancer binding protein alpha–deficient mice. Zhang DE, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):569–74

Overexpression of granulocyte colony–stimulating factor in vivo decreases the level of polyploidization of mouse bone marrow megakaryocytes. Saito M, et al. **Stem Cells** 1996 Jan;14(1):124–31

SECRETION

Effects of immunosuppressive drugs and antibiotics on GM–CSF and G–CSF secretion in vitro by monocytes, T lymphocytes and endothelial cells. Lenhoff S, et al. **Br J Haematol** 1996 Oct;95(1):33–8

Cytokine regulation of GM–CSF and G–CSF secretion by human umbilical cord vein endothelial cells (HUVEC). Lenhoff S, et al. **Cytokine** 1996 Sep;8(9):702–9

Corticosteroids alter hematopoiesis in vitro by enhancing human monocyte secretion of granulocyte colony–stimulating factor. Rinehart J, et al. **Exp Hematol** 1997 May;25(5):405–12

THERAPEUTIC USE

Chemotherapy and granulocyte–colony stimulating factor for non–Hodgkin's lymphoma of the head and neck. Tsuge I, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:129–34

Minimum effective dose and duration to reverse neutropenia in non–cancer patients with advanced HIV disease [letter] Hermans P, et al. **AIDS** 1996 Aug;10(9):1050–1

Lack of in vivo effect of granulocyte–macrophage colony–stimulating factor on human immunodeficiency virus type 1. Scadden DT, et al. **AIDS Res Hum Retroviruses** 1996 Aug 10;12(12):1151–9

The effects of antineoplastic chemotherapy on HIV disease. Zanussi S, et al. **AIDS Res Hum Retroviruses** 1996 Dec 10;12(18):1703–7

Phase I study of chemotherapy with carboplatin, epirubicin, and escalating dose of VP–16 with G–CSF support in extensive small cell lung cancer. Gridelli C, et al. **Am J Clin Oncol** 1996 Dec;19(6):589–91

Complete remission in three patients with acute myeloblastic leukemia by administration of G–CSF without antileukemic agents. Takahashi M, et al. **Am J Hematol** 1997 Sep; 56(1):42–4

Granulocyte colony–stimulating factor treatment of clozapine–induced agranulocytosis [letter] Pasquale D, et al. **Am J Psychiatry** 1996 Nov;153(11):1503–4

Recombinant human granulocyte colony–stimulating factor increases circulating CD34–postive cells in patients with AIDS. Nielsen SD, et al. **Ann Hematol** 1997 May; 74(5):215–20

Are hematopoietic colony–stimulating factors useful in association with chemotherapy in the treatment of HIV–related non–Hodgkin's lymphomas? Errante D, et al. **Ann Oncol** 1996 Mar;7(3):233–7

Neo–adjuvant high–dose chemotherapy with autologous peripheral blood stem cell transplantation for inoperable relapse of nuchal liposarcoma resistant to standard–dose chemotherapy [letter] Fetscher S, et al. **Ann Oncol** 1996 Oct;7(8):871

Results of a randomized trial of granulocyte colony–stimulating factor in patients with infection and severe granulocytopenia. Avilés A, et al. **Anticancer Drugs** 1996 Jun;7(4):392–7

Treatment of Staphylococcus aureus catheter–related infection and infective endocarditis with granulocyte colony–stimulating factor in the experimental rabbit model. Frank U, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1308–10

Granulocyte colony–stimulating factor treatment of cyclic neutropenia with recurrent oral aphthae [letter] Fink–Puches R, et al. **Arch Dermatol** 1996 Nov; 132(11):1399–400

Treatment of drug–induced agranulocytosis with colony stimulating factors (G–CSF or GM–CSF). Góra–Tybor J, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):255–8

The effects and pharmacokinetics of rhG–CSF in patients with chronic renal failure. Akizawa T, et al. **Artif Organs** 1995 Dec;19(12):1251–7

Prevention of infection in a patient with chronic idiopathic neutropenia undergoing coronary bypass surgery with peri–operative G–CSF. Shapiro J, et al. **Aust N Z J Surg** 1996 Dec;66(12):841–2

Monitoring neutrophil phagocytosis in lung cancer patients or normal stem cell donors, treated with G–CSF. Lawry J, et al. **Biochem Soc Trans** 1997 May;25(2):197S

Granulocyte colony–stimulating factor as an adjunct to induction chemotherapy for adult acute lymphoblastic leukemia––a randomized phase–III study. Geissler K, et al. **Blood** 1997 Jul 15;90(2):590–6

Host F1 mice pretreated with granulocyte colony–stimulating factor accept parental bone marrow grafts in hybrid resistance system. Iizuka K, et al. **Blood** 1997 Feb 15;89(4):1446–51

Acute myeloid leukemia in the elderly: assessment of multidrug resistance (MDR1) and cytogenetics distinguishes biologic subgroups with remarkably distinct responses to standard chemotherapy. A Southwest Oncology Group study. Leith CP, et al. **Blood** 1997 May 1;89(9):3323–9

Modulation of cytokine release and neutrophil function by granulocyte colony–stimulating factor during endotoxemia in humans. Pajkrt D, et al. **Blood** 1997 Aug 15;90(4):1415–24

High–dose chemo–radiotherapy cycles for LD small cell lung cancer patients using G–CSF and blood stem cells. Humblet Y, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S36–9

Telomere length of blood–derived mononuclear cells from cancer patients during G–CSF–enhanced marrow recovery. Kronenwett R, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S10–4

Combination therapy with G–CSF and erythropoietin after autologous bone marrow transplantation for lymphoid malignancies: a randomized trial. Vannucchi AM, et al. **Bone Marrow Transplant** 1996 Apr;17(4):527–31

Beneficial effect of granulocyte–colony stimulating factor in scleromyxoedema associated with severe idiopathic neutropenia. Cohen AM, et al. **Br J Dermatol** 1996 Oct; 135(4):626–9

Recombinant granulocyte colony–stimulating factor in the management of toxic epidermal necrolysis. Goulden V, et al. **Br J Dermatol** 1996 Aug;135(2):305–6

Treatment of dyskeratosis congenita with granulocyte colony–stimulating factor and erythropoietin. Alter BP, et al. **Br J Haematol** 1997 May;97(2):309–11

Successful autografting in chronic myelogenous leukaemia using Philadelphia negative blood progenitor cells mobilized with rHuG–CSF alone in a patient responding to alpha–interferon. Carreras E, et al. **Br J Haematol** 1997 Feb;96(2):421–3

Reversal of autoimmune phenomena in autoimmune neutropenia after treatment with rhG–CSF: two additional cases [letter; comment] Carulli G, et al. **Br J Haematol** 1997 Mar;96(4):877–8. Comment on: Br J Haematol 1996 Sep;94(3):464–9.

Prospective randomized study comparing the efficacy of bioequivalent doses of glycosylated and nonglycosylated rG–CSF for mobilizing peripheral blood progenitor cells. de Arriba F, et al. **Br J Haematol** 1997 Feb;96(2):418–20

Bone mineralization and turnover in children with congenital neutropenia, and its relationship to treatment with recombinant human granulocyte–colony stimulating factor. Fewtrell MS, et al. **Br J Haematol** 1997 Jun;97(4):734–6

Mobilization of predominantly Philadelphia chromosome–negative blood progenitors using cyclophosphamide and rHUG–CSF in early chronic–phase chronic myeloid leukaemia: correlation with Sokal prognostic index and haematological control. Hughes TP, et al. **Br J Haematol** 1997 Mar;96(3):635–40

The role of granulocyte– and granulocyte–macrophage–colony–stimulating factors in the treatment of acute myeloid leukaemia. Johnson PR, et al. **Br J Haematol** 1997 Apr;97(1):1–8 (48 ref.)

Increased numbers of bone marrow blasts in acute myeloid leukaemia patients treated with G–CSF after chemotherapy [letter] Kaddar A, et al. **Br J Haematol** 1997 Aug; 98(2):492–3

Granulocyte–colony stimulating factor–induced proliferation of primary adult T–cell leukaemia cells. Matsushita K, et al. **Br J Haematol** 1997 Mar;96(4):715–23

G–CSF–mobilized CD34 peripheral blood stem cells are significantly less apoptotic than unstimulated peripheral blood CD34 cells: role of G–CSF as survival factor. Philpott NJ, et al. **Br J Haematol** 1997 Apr;97(1):146–52

Purified unfractionated G–CSF/chemotherapy mobilized CD34+ peripheral blood progenitors and not bone marrow CD34+ progenitors undergo selective erythroid differentiation in liquid culture in the presence of erythropoietin and stem cell factor. Pierelli L, et al. **Br J Haematol** 1997 Jan;96(1):55–63

Successful treatment of juvenile rheumatoid arthritis associated haemophagocytic syndrome by cyclosporin A with transient exacerbation by conventional–dose G–CSF [letter; comment] Quesnel B, et al. **Br J Haematol** 1997 May;97(2):508–10. Comment on: Br J Haematol 1996 Jun;93(3):572–5.

Model analysis of the contrasting effects of GM–CSF and G–CSF treatment on peripheral blood neutrophils observed in three patients with childhood–onset cyclic neutropenia. Schmitz S, et al. **Br J Haematol** 1996 Dec;95(4):616–25

Biological properties of peripheral blood progenitor cells mobilized by cyclophosphamide and granulocyte colony–stimulating factor. Scott MA, et al. **Br J Haematol** 1997 May;97(2):474–80

Re: Cytokines and agranulocytosis induced by clozapine [letter; comment] Malek–Ahmadi P. **Can J Psychiatry** 1996 Nov;41(9):603. Comment on: Can J Psychiatry 1996 Jun;41(5):280–4.

A phase I/II study of sequential, dose–escalated, high dose ifosfamide plus doxorubicin with peripheral blood stem cell support for the treatment of patients with advanced soft tissue sarcomas. Bokemeyer C, et al. **Cancer** 1997 Oct 1; 80(7):1221–7

High–dose carboplatin plus paclitaxel with granulocyte colony–stimulating factor and peripheral blood stem–cell support in non–small–cell lung cancer. Shea TC. **Cancer Chemother Pharmacol** 1997;40 Suppl:S74–8

Lipid–laden macrophage infiltration of human adenocarcinoma in vivo associated with taxol and GCSF treatment. Abramson N, et al. **Cancer Invest** 1997; 15(1):18–22

Clinical needs for hematopoietic growth factors: old and new. Rusthoven JJ. **Cancer Invest** 1996;14(6):622–34 (163 ref.)

The role of granulocyte colony–stimulating factor in hematopoietic stem cell transplantation. Tabbara IA, et al. **Cancer Invest** 1997;15(4):353–7 (43 ref.)

Preclinical studies with Fc(gamma)R bispecific antibodies and granulocyte colony–stimulating factor–primed neutrophils as effector cells against HER–2/neu overexpressing breast cancer. Stockmeyer B, et al. **Cancer Res** 1997 Feb 15;57(4):696–701

Fungemia in patients with hematologic malignancies: therapeutic effects of concomitant administration of fluconazole and granulocyte–colony–stimulating factor. Niitsu N, et al. **Chemotherapy** 1996 May–Jun;42(3):215–19

Clinical benefits of improving host defences with rHuG–CSF. Morstyn G, et al. **Ciba Found Symp** 1997; 204:78–85; discussion 85–7

Granulocyte colony–stimulating factor and modulation of inflammatory cells in sepsis. Nelson S, et al. **Clin Chest Med** 1996 Jun;17(2):319–32 (122 ref.)

Efficacy of recombinant granulocyte colony–stimulating factor (rhG–CSF) in experimental colitis. Hommes DW, et al. **Clin Exp Immunol** 1996 Dec;106(3):529–33

Protective effect of granulocyte colony–stimulating factor (G–CSF) in a granulocytopenic mouse model of Pseudomonas aeruginosa lung infection through enhanced phagocytosis and killing by alveolar macrophages through priming tumour necrosis factor–alpha (TNF–alpha) production. Shirai R, et al. **Clin Exp Immunol** 1997 Jul; 109(1):73–9

Clinical resolution of Scedosporium prolificans fungemia associated with reversal of neutropenia following administration of granulocyte colony–stimulating factor. Bouza E, et al. **Clin Infect Dis** 1996 Jul;23(1):192–3 (10 ref.)

Vancomycin–induced neutropenia treated with granulocyte colony–stimulating factor during home intravenous infusion therapy. Lai KK, et al. **Clin Infect Dis** 1996 Oct; 23(4):844–5

Use of adjunctive treatment with interferon–gamma in an immunocompromised patient who had refractory multidrug–resistant tuberculosis of the brain. Raad I, et al. **Clin Infect Dis** 1996 Mar;22(3):572–4

The place of myeloid growth factors in the treatment of hairy–cell leukaemia. Christopoulos C, et al. **Clin Lab Haematol** 1997 Jun;19(2):149–50

Successful use of granulocyte colony–stimulating factor to correct neutropenia in chronic lymphocytic leukaemia. Vickers M. **Clin Lab Haematol** 1997 Mar;19(1):77–8

Augmentation of leukocyte count with G–CSF in a patient with neutropenia before In–111 WBC scintigraphy. Lin S, et al. **Clin Nucl Med** 1996 Jul;21(7):544–6

Use of hematopoietic growth factors in the treatment of acute myelogenous leukemia. Ganser A, et al. **Curr Opin Hematol** 1997 May;4(3):191–5 (27 ref.)

Use of colony–stimulating factors in the treatment of neutropenia associated with collagen vascular disease. Starkebaum G. **Curr Opin Hematol** 1997 May;4(3):196–9 (46 ref.)

Use of granulocyte colony–stimulating factor in the treatment of acute infectious diseases. Stoltz DA, et al. **Curr Opin Hematol** 1997 May;4(3):207–12 (31 ref.)

Clinical use of hematopoietic growth factors. Ganser A, et al. **Curr Opin Oncol** 1996 Jul;8(4):265–9 (28 ref.)

Impact of recombinant human granulocyte colony stimulating factor on dose intensity and toxicity of three cycles of methotrexate, vinblastine, doxorubicin and cisplatin in patients with previously untreated urothelial bladder carcinoma. Viens P, et al. **Eur Cytokine Netw** 1996 Sep;7(3):395–9

Role of granulocyte colony–stimulating factor in the treatment of mucormycosis. Sahin B, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):866–9

Treatment of the anemia of aplastic anemia patients with recombinant human erythropoietin in combination with granulocyte colony–stimulating factor: a multicenter randomized controlled study. Multicenter Study Group. Bessho M, et al. **Eur J Haematol** 1997 Apr;58(4):265–72

A new strategy for treating patients with CD7+, CD4–, CD8– acute lymphoblastic leukaemia [letter] Ono K, et al. **Eur J Haematol** 1997 Feb;58(2):130–2

Morphological features following G–CSF treatment. Azzarà A, et al. **Haematologica** 1997 Jul–Aug;82(4):504–5

Rapid disease progression in two cases of myelodysplastic syndrome (MDS) following short therapy with G-CSF [letter] Zomas A, et al. **Haematologica** 1997 Mar-Apr; 82(2):253-4

Granulocytic colony-stimulating factors in the management of patients with acute myeloid leukemia. Dombret H. **Hematol Cell Ther** 1996 Jul;38(3):231-40 (92 ref.)

Clinical use of granulocyte-macrophage colony-stimulating factor and granulocyte colony-stimulating factor in neutropenia associated with malignancy. Lifton R, et al. **Hematol Oncol Clin North Am** 1996 Aug;10(4):825-39 (49 ref.)

Clinical evaluation of human granulocyte colony-stimulating factor in chemotherapy for ovarian cancer. Nagai N, et al. **Hiroshima J Med Sci** 1995 Dec;44(4):99-103

Granulocyte-colony stimulating factor in the treatment of colchicine poisoning. Critchley JA, et al. **Hum Exp Toxicol** 1997 Apr;16(4):229-32 (19 ref.)

Effects of granulocyte and granulocyte-macrophage colony-stimulating factors in a neutropenic murine model of trichosporonosis. Muranaka H, et al. **Infect Immun** 1997 Aug;65(8):3422-9

Combination chemo-immunotherapy of murine solid tumor with OK-432, G-CSF, IL-2, and chemotherapeutics. Iida S, et al. **Int J Immunopharmacol** 1995 Dec;17(12):973-80

Is G-CSF safe and useful in the treatment of infectious diseases in the non-neutropenic host? [editorial; comment] Pajkrt D, et al. **Intensive Care Med** 1997 Jan;23(1):1-2. Comment on: Intensive Care Med 1997 Jan;23(1):16-22.

Combination therapy with granulocyte colony-stimulating factor, all-trans retinoic acid, and low-dose cytotoxic drugs for acute myelogenous leukemia. Usuki K, et al. **Intern Med** 1995 Dec;34(12):1186-9

Combined therapy with zidovudine, recombinant granulocyte colony stimulating factors and erythropoietin in asymptomatic HIV patients. Perrella O, et al. **J Chemother** 1996 Feb;8(1):63-6

Cyclic neutropenia in Crohn's ileocolitis: efficacy of granulocyte colony-stimulating factor. Fata F, et al. **J Clin Gastroenterol** 1997 Jun;24(4):253-6

Use of hematopoietic colony-stimulating factors: the American Society of Clinical Oncology survey. The Health Services Research Committee of the American Society of Clinical Oncology. Bennett CL, et al. **J Clin Oncol** 1996 Sep;14(9):2511-20

Allogeneic-blood stem-cell collection following mobilization with low-dose granulocyte colony-stimulating factor. Bishop MR, et al. **J Clin Oncol** 1997 Apr;15(4):1601-7

Phase I trial of dose-intense liposome-encapsulated doxorubicin in patients with advanced sarcoma. Casper ES, et al. **J Clin Oncol** 1997 May;15(5):2111-7

Mobilization of peripheral-blood progenitor cells with high-dose etoposide and granulocyte colony-stimulating factor in patients with breast cancer, non-Hodgkin's lymphoma, and Hodgkin's disease. Copelan EA, et al. **J Clin Oncol** 1997 Feb;15(2):759-65

Effect of different chemotherapy regimens on peripheral-blood stem-cell collections in patients with breast cancer receiving granulocyte colony-stimulating factor. Demirer T, et al. **J Clin Oncol** 1997 Feb; 15(2):684-90

Comparative study of dose escalation versus interval reduction to obtain dose-intensification of epirubicin and cyclophosphamide with granulocyte colony-stimulating factor in advanced breast cancer. Lalisang RI, et al. **J Clin Oncol** 1997 Apr;15(4):1367-76

Intensified and high-dose chemotherapy with granulocyte colony-stimulating factor and autologous stem-cell transplantation support as first-line therapy in high-risk diffuse large-cell lymphoma. Vitolo U, et al. **J Clin Oncol** 1997 Feb;15(2):491-8

Progenitor-cell mobilization after low-dose cyclophosphamide and granulocyte colony-stimulating factor: an analysis of progenitor-cell quantity and quality and factors predicting for these parameters in 101 pretreated patients with malignant lymphoma. Watts MJ, et al. **J Clin Oncol** 1997 Feb;15(2):535-46

Phase II trial of paclitaxel and granulocyte colony-stimulating factor in patients with pancreatic carcinoma: a Southwest Oncology Group study. Whitehead RP, et al. **J Clin Oncol** 1997 Jun;15(6):2414-9

G-CSF for the prophylaxis of neutropenic fever in patients with small cell lung cancer receiving myelosuppressive antineoplastic chemotherapy: meta-analysis and pharmacoeconomic evaluation. Messori A, et al. **J Clin Pharm Ther** 1996 Apr;21(2):57-63

Red marrow recolonization induced by growth factors mimicking an increase in tumor volume during preoperative chemotherapy: MR study. Vanel D, et al. **J Comput Assist Tomogr** 1997 Jul-Aug;21(4):529-31

Harvest quality and factors affecting collection and engraftment of CD34+ cells in patients with breast cancer scheduled for high-dose chemotherapy and peripheral blood progenitor cell support. Papadopoulos KP, et al. **J Hematother** 1997 Feb;6(1):61-8

Daily measurements of blood CD34+ cells after stem cell mobilization predict stem cell yield and posttransplant hematopoietic recovery. Remes K, et al. **J Hematother** 1997 Feb;6(1):13-9

Control of fecal peritoneal infection in mice by colony-stimulating factors. Barsig J, et al. **J Infect Dis** 1996 Oct;174(4):790-9

Defective polymorphonuclear leukocyte functions in children receiving chemotherapy for cancer are partially restored by recombinant human granulocyte colony-stimulating factor in vitro. Lejeune M, et al. **J Infect Dis** 1996 Oct;174(4):800-5

Interferon-alpha inhibits CFU-GM mobilization following chemotherapy and G-CSF administration. Ballarino P, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):953-6

Granulocyte colony stimulating factor therapy of experimental cryptococcal meningitis. Graybill JR, et al. **J Med Vet Mycol** 1997 Jul-Aug;35(4):243-7

Granulocyte colony-stimulating factor enhances killing of translocated bacteria but does not affect barrier function in a burn mouse model. Eaves-Pyles T, et al. **J Trauma** 1996 Dec;41(6):1013-7

Placebo-controlled phase III study of lenograstim (glycosylated recombinant human granulocyte colony-stimulating factor) in aggressive non-Hodgkin's lymphoma: factors influencing chemotherapy administration. Groupe d'Etude des Lymphomes de l'Adulte. Gisselbrecht C, et al. **Leuk Lymphoma** 1997 Apr; 25(3-4):289-300

High-dose hydroxyurea and G-CSF to collect Philadelphia-negative cells in chronic myeloid leukemia: preliminary results. Mehta J, et al. **Leuk Lymphoma** 1996 Sep;23(1-2):107-11

Differential effects of recombinant human granulocyte colony-stimulating factor (rhG-CSF) on the radiation sensitivity of normal versus leukemic bone marrow progenitor cell populations. Waddick KG, et al. **Leuk Lymphoma** 1997 Mar;25(1-2):77-90

Morphological changes and apoptosis in bone marrow from patients with myelodysplastic syndromes treated with granulocyte-CSF and erythropoietin [see comments] Hellström-Lindberg E, et al. **Leuk Res** 1997 May; 21(5):415-25. Comment in: Leuk Res 1997 May;21(5):427-8.

Treatment of neutropenia-related fungal infections with granulocyte colony-stimulating factor-elicited white blood cell transfusions: a pilot study. Dignani MC, et al. **Leukemia** 1997 Oct;11(10):1621-30

Normal G-CSF-mobilized CD34+ peripheral blood stem cells in paroxysmal nocturnal hemoglobinuria: a perspective for autologous transplantation [letter] Musto P, et al. **Leukemia** 1997 Jun;11(6):890-2

Fludarabine and granulocyte colony-stimulating factor (G-CSF) in patients with chronic lymphocytic leukemia. O'Brien S, et al. **Leukemia** 1997 Oct;11(10):1631-5

Application of myeloid growth factors in the treatment of acute myeloid leukemia. Terpstra W, et al. **Leukemia** 1997 Mar;11(3):315-27 (136 ref.)

The limits of chemotherapy dose intensification using granulocyte colony stimulating factor alone in extensive small cell lung cancer. Trillet-Lenoir V, et al. **Lung Cancer** 1996 Jun;14(2-3):331-41

Effect of recombinant human granulocyte colony stimulating factor on granulocytopenia induced by cytotoxic chemotherapy in patients with multiple myeloma. Pogłód R, et al. **Mater Med Pol** 1995 Jul-Sep;27(3):83-9

Hematopoietic growth factors--not whether, but when and where [editorial; comment] Hoelzer D. **N Engl J Med** 1997 Jun 19;336(25):1822-4. Comment on: N Engl J Med 1997 Jun 19;336(25):1776-80. Comment on: N Engl J Med 1997 Jun 19;336(25):1781-87.

Prolonged treatment with granulocyte colony-stimulating factor in a patient with Felty's syndrome and chronic renal failure from secondary amyloidosis. Del Pozo C, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1727-9

Treatment of severe leukopenia with RHG-CSF in systemic lupus erythematosus treated with cyclophosphamide [letter] Ruiz-Valverde MP, et al. **Nephron** 1996;73(4):715

Correction of neutropenia following treatment with granulocyte colony-stimulating factor results in a decreased frequency of infections in Shwachman's syndrome. van der Sande FM, et al. **Neth J Med** 1996 Mar; 48(3):92-5

Growth factor allows effective dose-intensive regimen in advanced breast cancer patients [news] **Oncology (Huntingt)** 1995 Jul;9(7):684

Treatment of neutropenic oral ulceration in human immunodeficiency virus infection with G-CSF. Luzzi GA, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jan;81(1):53-4

rhG-CSF in severe chronic neutropenia: successful intermittent treatment in three infants. De Mattia D, et al. **Pediatr Hematol Oncol** 1997 May-Jun;14(3):277-80

Colony-stimulating factors after the treatment of pediatric malignant diseases [editorial] Schuler D. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):iii-v

The treatment of clozapine-associated agranulocytosis with granulocyte colony-stimulating factor (G-CSF). Chengappa KN, et al. **Psychopharmacol Bull** 1996; 32(1):111-21

Recombinant human erythropoietin in combination with other hematopoietic cytokines in attenuating chemotherapy-induced multilineage myelosuppression: brief communication. Vadhan-Raj S. **Semin Hematol** 1996 Jan;33(1 Suppl 1):16-8 (14 ref.)

Topotecan and the treatment of recurrent ovarian cancer: is there a role for granulocyte colony-stimulating factor? Saltz L, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 5):S5-26-S5-30 (24 ref.)

Collection of peripheral blood progenitor cells after the administration of cyclophosphamide, etoposide, and granulocyte-colony-stimulating factor: an analysis of 497 patients. Weaver CH, et al. **Transfusion** 1997 Sep; 37(9):896-903

Hematopoietic effects and clinical application of granulopoietic growth factors. Höglund M. **Ups J Med Sci** 1996;101(2):121-48 (232 ref.)

[New therapeutic approaches in acute myeloblastic leukemia (AML) and chronic myeloid leukemia (CML)] Marie JP. **Bull Cancer** 1997 Apr;84(4):451-2 **(Fre)**

[Hematopoietic growth factors and anti-infective respiratory defenses] Gagnadoux F, et al. **Rev Mal Respir** 1997 Apr; 14(2):93-9 (40 ref.) (Eng. Abstr.) **(Fre)**

[Prevention and treatment of febrile neutropenia] Montemurro F, et al. **Tumori** 1997;83(2 Suppl):S15-9 (30 ref.) (Eng. Abstr.) **(Ita)**

[Clinical application of neutrophil hematopoietic factors] Sakurada K. **Nippon Naika Gakkai Zasshi** 1996 Jun 10; 85(6):844-9 (5 ref.) **(Jpn)**

[The use of G-CSF in hematological disorders] Dan K. **Rinsho Ketsueki** 1997 May;38(5):367-70 (10 ref.) **(Jpn)**

[Improvement of respiratory burst by individual neutrophils from a patient with chronic granulomatous disease, type X91- under treatment by granulocyte colony-stimulating factor for multiple liver abscess] Ito Y, et al. **Rinsho Ketsueki** 1997 Jun;38(6):550-2 (Eng. Abstr.) **(Jpn)**

[Late effects of treatment with recombinant human granulocyte colony-stimulating factor in patients with aplastic anemia] Kojima S. **Rinsho Ketsueki** 1997 May; 38(5):371-4 (15 ref.) **(Jpn)**

[G-CSF-combined preparatory regimen for autologous peripheral blood stem cell transplantation in acute myelogenous leukemia] Miyamoto T, et al. **Rinsho Ketsueki** 1997 Jun;38(6):484-8 **(Jpn)**

[Early establishment of bone marrow hypoplasia by antileukemic chemotherapy with concurrent rhG-CSF in a case of acute myelogenous leukemia complicated with intestinal perforation] Ono Y, et al. **Rinsho Ketsueki** 1997 Jan;38(1):41-6 (Eng. Abstr.) **(Jpn)**

[Recombinant human G-CSF combined regimen for allogeneic BMT in myeloid leukemias] Takahashi S. **Rinsho Ketsueki** 1997 Jun;38(6):489-95 **(Jpn)**

[Hematopoietic factors: serum concentrations and clinical application] Urabe A, et al. **Rinsho Ketsueki** 1997 May; 38(5):360-3 **(Jpn)**

[Clinical use of granulocyte colony stimulating-factors (GM-CSF and G-CSF] Borota R, et al. **Med Pregl** 1997 Mar-Apr;50(3-4):87-93 (37 ref.) (Eng. Abstr.) **(Scr)**

[Alloimmune neonatal neutropenia. Treatment with granulocyte colony- stimulating factor] Cedena Romero P, et al. **An Esp Pediatr** 1996 Nov;45(5):536-8 **(Spa)**

[Colony-stimulating factors and HIV-related neoplasms] Valencia ME, et al. **An Med Interna** 1996 Jul;13(7):317-21 (Eng. Abstr.) **(Spa)**

[Granulocyte colony-stimulating factor in the treatment of neutropenia associated with HIV infection (letter; comment)] Moreno García M, et al. **Med Clin (Barc)** 1996 Jul 6;107(6):237-8. Comment on: Med Clin (Barc) 1994 May 21;102(19):747-50. Comment on: Med Clin (Barc) 1995 Feb 4;104(4):157. **(Spa)**

[Effect of granulocyte colony-stimulating factor after chemotherapy with CHOP in patients with non-Hodgkin's lymphoma and HIV infection (letter)] Navarro JT, et al. **Med Clin (Barc)** 1996 Jun 15;107(3):118-9 **(Spa)**

[Resolution of a disseminated infection by Fusarium solani in a patient with acute promyelocytic leukemia and granulocytopenia secondary to chemotherapy by the combined use of G-CSF and liposomal amphotericin B (letter)] Sancho JM, et al. **Med Clin (Barc)** 1997 Jun 21; 109(4):156-7 **(Spa)**

[The dilemma of stimulating factors in the recovery from chemotherapeutic neutropenia (letter)] Borbollo Escoboza JR, et al. **Rev Invest Clin** 1996 Jul-Aug;48(4):328 **(Spa)**

[Agranulocytosis secondary to acute hepatitis B with a good response to G-CSF (letter)] Ulla Anes M, et al. **Sangre (Barc)** 1997 Feb;42(1):91-2 **(Spa)**

[Chronic neutropenia] Palmblad J, et al. **Nord Med** 1996 Nov; 111(9):304-7 (11 ref.) (Eng. Abstr.) **(Swe)**

TOXICITY

The age-related difference in bone changes in rats induced by recombinant human granulocyte colony-stimulating factor. Suzuki M, et al. **Toxicol Pathol** 1997 Mar-Apr; 25(2):144-9

GRANULOCYTE COLONY STIMULATING FACTOR, RECOMBINANT

ADMINISTRATION & DOSAGE

Treatment of aplastic anemia with antithymocyte globulin, cyclosporin A, methylprednisolone, danazol and recombinant human granulocyte-colony stimulating factor. Shichino H, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):644-7

Pharmacodynamics and pharmacokinetics of recombinant human granulocyte colony-stimulating factor (rhG-CSF) after administration of a rectal dosage vehicle. Watanabe

Y, et al. **Biol Pharm Bull** 1996 Aug;19(8):1059–63

Pharmacodynamic activity (leukopoietic effect) of recombinant human granulocyte colony-stimulating factor (rhG-CSF) after rectal administration in rabbits with leukopenia induced by cyclophosphamide. Watanabe Y, et al. **Biol Pharm Bull** 1996 Aug;19(8):1064–7

Mobilization and collection of PBSC in healthy donors: comparison between two schemes of rhG-CSF administration. Majolino I, et al. **Eur J Haematol** 1996 Sep; 57(3):214–21

Clinical trial of recombinant granulocyte colony-stimulating factor for chemotherapy-induced neutropenia patients with oral cancer. Iwase M, et al. **J Oral Maxillofac Surg** 1997 Aug;55(8):836–40; discussion 841

Low-dose recombinant human granulocyte colony-stimulating factor therapy in children with symptomatic chronic idiopathic neutropenia. Bernini JC, et al. **J Pediatr** 1996 Oct;129(4):551–8

Factors influencing haematological recovery after allogeneic bone marrow transplantation in leukaemia patients treated with methotrexate-containing GVHD prophylaxis. A single-centre experience. Hassan HT, et al. **Support Care Cancer** 1997 Jul;5(4):299–306

[G-CSF in radiochemotherapy] Riepl M, et al. **Strahlenther Onkol** 1997 Feb;173(2):76–82 (Eng. Abstr.) **(Ger)**

[Clinical study on a concomitant therapy with fluconazole and human recombinant granulocyte colony stimulating factor in the treatment of systemic fungal infections with hematological disorders] Kitamura K, et al. **Jpn J Antibiot** 1996 Dec;49(12):1062–72 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Severe reversible thrombocytopenia caused by recombinant human granulocyte colony-stimulating factor in an AIDS patient receiving chronic ganciclovir therapy [letter] Holtzer CD, et al. **AIDS** 1997 Sep;11(11):1403–5

Exacerbation of pseudogout by granulocyte colony-stimulating factor [letter] Sandor V, et al. **Ann Intern Med** 1996 Nov 1;125(9):781

Safety of concomitant use of granulocyte colony-stimulating factor or granulocyte-macrophage colony-stimulating factor with cytotoxic chemotherapy agents. Petros WP, et al. **Curr Opin Hematol** 1997 May;4(3):213–6 (21 ref.)

Sweet's syndrome in a severely neutropenic patient during therapy with recombinant human granulocyte colony-stimulating factor. Chao SC, et al. **J Formos Med Assoc** 1997 Apr;96(4):276–9

Granulocyte colony-stimulating factor and congenital neutropenia—risk of leukemia? [letter; comment] [see comments] Corey SJ, et al. **J Pediatr** 1996 Jul;129(1):187–8 . Comment on: J Pediatr 1995 Feb;126(2):263–5. Comment in: J Pediatr 1997 Feb;130(2):335.

Acute monocytic leukemia in a patient with severe congenital neutropenia after treatment with recombinant human granulocyte colony-stimulating factor [letter] Nibu K, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):422–4

Randomized trial comparing the tolerability of sargramostim (yeast-derived RhuGM-CSF) and filgrastim (bacteria-derived RhuG-CSF) in cancer patients receiving myelosuppressive chemotherapy. Beveridge RA, et al. **Support Care Cancer** 1997 Jul;5(4):289–98

BLOOD

Serum concentration of granulocyte colony stimulating factor in term and preterm infants. Chirico G, et al. **Eur J Pediatr** 1997 Apr;156(4):269–71

CHEMISTRY

NMR investigations of the role of the sugar moiety in glycosylated recombinant human granulocyte-colony-stimulating factor. Gervais V, et al. **Eur J Biochem** 1997 Jul 1;247(1):386–95

Adsorption of recombinant human granulocyte colony stimulating factor (rhG-CSF) to polyvinyl chloride, polypropylene, and glass: effect of solvent additives. Johnston TP. **PDA J Pharm Sci Technol** 1996 Jul-Aug; 50(4):238–45

Characterization and stability of N-terminally PEGylated rhG-CSF. Kinstler OB, et al. **Pharm Res** 1996 Jul; 13(7):996–1002

PHARMACOKINETICS

Effects of a dosing solution on the nasal absorption of non-glycosylated recombinant human granulocyte colony-stimulating factor in rats. Nomura H, et al. **Biol Pharm Bull** 1996 Nov;19(11):1490–3

Pharmacokinetic/pharmacodynamic analysis of neutrophil proliferation induced by recombinant granulocyte colony-stimulating factor (rhG-CSF): comparison between intravenous and subcutaneous administration. Sugiura M, et al. **Biol Pharm Bull** 1997 Jun;20(6):684–9

Kinetics of serum granulocyte-colony stimulating factor (G-CSF) concentration and G-CSF receptor expression during G-CSF treatment of cyclophosphamide-treated mice. Matsuzaki G, et al. **Int J Immunopharmacol** 1996 Jun-Jul;18(6-7):363–9

PHARMACOLOGY

Granulocyte transfusion: stimulation of low dose granulocyte colony-stimulating factor in donors for leukapheresis. Nomura A, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):317–21

Granulocyte macrophage colony stimulating factor pretreatment induces an increase of rat Kupffer cells with enhanced cytotoxicity in vitro and prevention of tumor outgrowth in vivo. Schuurman B, et al. **Anticancer Drugs** 1997 Mar;8(3):269–75

Effect of granulocyte colony-stimulating factor on the candidacidal activity of polymorphonuclear neutrophils and their collaboration with fluconazole. Natarajan U, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1575–8

Pharmacokinetic/pharmacodynamic analysis of neutrophil proliferation induced by recombinant granulocyte colony-stimulating factor (rhG-CSF): comparison between intravenous and subcutaneous administration. Sugiura M, et al. **Biol Pharm Bull** 1997 Jun;20(6):684–9

Changes in reticulocyte fractions during peripheral stem cell harvesting exclusively mobilized with rhG-CSF [letter; comment] González FA, et al. **Bone Marrow Transplant** 1996 Sep;18(3):673. Comment on: Bone Marrow Transplant 1996 Feb;17(2):163–8.

The effects of recombinant human granulocyte-colony stimulating factor on vascular dysfunction and splanchnic ischaemia-reperfusion injury. Squadrito F, et al. **Br J Pharmacol** 1997 Jan;120(2):333–9

Effect of two forms of granulocyte-colony-stimulating factor on hepatic regeneration after 70% partial hepatectomy in rats. Theocharis SE, et al. **Clin Sci (Colch)** 1997 Mar; 92(3):315–20

Recombinant human granulocyte colony-stimulating factor reduces hepatitis C virus replication in mononuclear cells from chronic hepatitis C patients. Martin J, et al. **Cytokine** 1996 Apr;8(4):313–7

Comparative study of the effects of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor on generation and mobilization of neutrophils in cyclophosphamide-treated neutropenic mice. Hattori K, et al. **In Vivo** 1996 May-Jun;10(3):319–27

Acceleration of hemopoietic recovery in dogs after extended-field partial-body irradiation by treatment with colony-stimulating factors: rhG-CSF and rhGM-CSF. Nothdurft W, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1145–54

Glycosylation improves the priming effect exerted by recombinant human granulocyte colony-stimulating factor (lenograstim) on human neutrophil superoxide production. Decleva E, et al. **Int J Tissue React** 1995;17(5-6):191–8

Pharmacokinetics of recombinant human granulocyte-macrophage colony-stimulating factor: the effects of zidovudine. Aweeka FT, et al. **J Clin Pharmacol** 1996 Dec;36(12):1107–13

Cytokines enhance neutrophils from human immunodeficiency virus-negative donors and AIDS patients to inhibit the growth of Mycobacterium avium in vitro. Newman GW, et al. **J Infect Dis** 1997 Apr; 175(4):891–900

Identification of phosphoproteins specific to granulocyte colony-stimulating factor-mediated signaling using 2D-SDS-PAGE. Csar XF, et al. **J Interferon Cytokine Res** 1997 Feb;17(2):77–86

Granulocyte colony-stimulating factor-stimulated proliferation of myeloid cells: mode of cell cycle control by a range of inhibitors. Ward AC, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):869–77

Leukocyte alkaline phosphatase activity and peripheral changes of granulocyte following administration of granulocyte colony-stimulating factor. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79(12):801–7

Synergistic response of cord blood myeloid progenitor cells to the combined administration of human granulocyte colony-stimulating factor and human stem cell factor in vitro. Fujita A, et al. **Pediatr Res** 1996 Sep;40(3):388–92

The pharmacologic effects of recombinant, human colony-stimulating factors and their modulation by theophylline. Petros WP, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):742–8

THERAPEUTIC USE

Standard-dose recombinant human granulocyte colony-stimulating factor (rhG-CSF) allows safe and repeated administration of high-dose cyclophosphamide, etoposide, and cisplatin (CEP). Ballestrero A, et al. **Am J Clin Oncol** 1997 Jun;20(3):266–71

Infusional chemotherapy combined with recombinant human granulocyte colony stimulating factor: advantages and limitations. Weiss AJ, et al. **Am J Clin Oncol** 1997 Feb; 20(1):63–8 (30 ref.)

rhG-CSF resistant neutropenia in SLE [letter] Frosch M, et al. **Ann Rheum Dis** 1997 Jun;56(6):396

Use of rhG-CSF in the collection of peripheral blood stem cells for autologous blood stem cell transplantation in acute myeloblastic leukemia. Jurado M, et al. **Bone Marrow Transplant** 1996 Oct;18(4):821–2

Target value tailored (TVT) apheresis approach for blood progenitor cell collection after high-dose chemotherapy and rh-G-CSF. Mitterer M, et al. **Bone Marrow Transplant** 1996 Sep;18(3):611–7

The administration of growth factors post-PBPC transplantation abrogates the dose-effect of CFU-GM on the rate of PMN recovery [letter] Pierelli L, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1189–90

Mobilization of peripheral blood progenitor cells for allogeneic transplantation: efficacy and toxicity of a high-dose rhG-CSF regimen. Waller CF, et al. **Bone Marrow Transplant** 1996 Aug;18(2):279–83

Local intralesional therapy with rhGM-CSF for a large genital ulcer in Behçet's disease [letter] Alli N, et al. **Br J Dermatol** 1997 Apr;136(4):639–40

Pyoderma gangrenosum in myelodysplasia responding to granulocyte macrophage-colony stimulating factor (GM-CSF) [letter] Bulvik S, et al. **Br J Dermatol** 1997 Apr;136(4):637–8

The use of rhG-CSF in chronic autoimmune neutropenia: reversal of autoimmune phenomena, a case history [see comments] Kuijpers TW, et al. **Br J Haematol** 1996 Sep; 94(3):464–9. Comment in: Br J Haematol 1997 Mar;96(4):877–8.

Recombinant human granulocyte colony-stimulating factor after allogeneic bone marrow transplantation. Huang X, et al. **Chin Med J (Engl)** 1996 Nov;109(11):827–31

Role of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor in the treatment of patients with HIV infection. Frumkin LR. **Curr Opin Hematol** 1997 May;4(3):200–6 (63 ref.)

A phase I study of irinotecan and infusional cisplatin with recombinant human granulocyte colony-stimulating factor support in the treatment of advanced non-small cell lung cancer. Mori K, et al. **Eur J Cancer** 1997 Mar;33(3):503–5

High-dose melphalan with re-infusion of unprocessed, G-CSF-primed whole blood is effective and non-toxic therapy in multiple myeloma. Ossenkoppele GJ, et al. **Eur J Cancer** 1996 Nov;32A(12):2058–63

The in vivo effect of recombinant human granulocyte-colony stimulating factor in neutropenic neonates with sepsis. Barak Y, et al. **Eur J Pediatr** 1997 Aug;156(8):643–6

Androgen therapy in combination with granulocyte colony-stimulating factor and erythropoietin in a patient with refractory anemia. Katayama Y, et al. **Int J Hematol** 1996 Dec;65(1):89–92

Clinical trial of low-dose rHuG-CSF in neutropenic cancer patients following anti-cancer chemotherapy. Chang MC, et al. **J Formos Med Assoc** 1996 Nov;95(11):845–50

Granulocyte colony-stimulating factor (G-CSF, filgrastim) after or during an intensive remission induction therapy for adult acute lymphoblastic leukaemia: effects, role of patient pretreatment characteristics, and costs. Bassan R, et al. **Leuk Lymphoma** 1997 Jun;26(1-2):153–61

Granulocyte-colony stimulating factor fails to prevent leucopenia caused by CEMP in elderly patients with aggressive lymphoma [letter] Nel JS, et al. **S Afr Med J** 1996 Dec;86(12):1564

Transplantation of allogeneic peripheral blood stem cells mobilized by recombinant human granulocyte colony stimulating factor. Bensinger WI, et al. **Stem Cells** 1996 Jan;14(1):90–105 (87 ref.)

Activation of neutrophil function by recombinant human granulocyte colony-stimulating factor improves the survival of rats with peritonitis. Ishikura H, et al. **Surg Today** 1996;26(9):694–9

[Comparison of 2 strategies in the treatment of radiogenic leukopenia using granulocyte colony stimulating factor] Adamietz IA, et al. **Strahlenther Onkol** 1997 Mar; 173(3):170–1 **(Ger)**

GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR

see related
RECEPTORS, GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR

GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR

Biology and therapeutic uses of myeloid hematopoietic growth factors and interferons [see comments] Lau AS, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):563–75 (96 ref.) . Comment in: Pediatr Infect Dis J 1997 Feb;16(2):260.

Cytokine therapy after bone marrow transplantation. Dix SP, et al. **Pharmacotherapy** 1996 Jul-Aug;16(4):593–608 (68 ref.)

In vitro production of megakaryocytes from PIXY321 versus GM-CSF-mobilized peripheral blood progenitor cells. Lefebvre P, et al. **Stem Cells** 1997;15(2):112–8

ADMINISTRATION & DOSAGE

Potential role for granulocyte-macrophage colony-stimulating factor in the treatment of HIV-associated cryptococcal meningitis [letter] Price DA, et al. **AIDS** 1997 Apr;11(5):693–4

Randomized trial of filgrastim vs. sequential filgrastim and molgramostim after dose-intensified carboplatin, cyclophosphamide, and etoposide: a phase I pilot study. Recchia F, et al. **Am J Clin Oncol** 1997 Apr;20(2):209–14

Comparison of peripheral blood progenitor cell mobilization in patients with multiple myeloma: high-dose cyclophosphamide plus GM-CSF vs G-CSF alone. Alegre A, et al. **Bone Marrow Transplant** 1997 Aug;20(3):211–7

rhGM-CSF vs placebo following rhGM-CSF-mobilized PBPC transplantation: a phase III double-blind randomized

trial. Legros M, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):209–13

Cyclophosphamide/GM-CSF priming in autotransplant therapy for CML. McGlave P, et al. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S65–6

GM-CSF-mobilized peripheral blood CD34+ cells differ from steady-state bone marrow CD34+ cells in adhesion molecule expression. Watanabe T, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1175–81

High-dose carboplatin, etoposide and melphalan (CEM) with peripheral blood progenitor cell support as late intensification for high-risk cancer: non-haematological, haematological toxicities and role of growth factor administration. Benedetti Panici P, et al. **Br J Cancer** 1997; 75(8):1205–12

Continuous infusion or subcutaneous injection of granulocyte-macrophage colony-stimulating factor: increased efficacy and reduced toxicity when given subcutaneously. Honkoop AH, et al. **Br J Cancer** 1996 Oct; 74(7):1132–6

Erythropoietin and granulocyte-macrophage colony-stimulating factor allow acceleration and dose escalation of cyclophosphamide/epidoxorubicin/5-fluorouracil chemotherapy: a dose-finding study in patients with advanced breast cancer. Venturini M, et al. **Cancer Chemother Pharmacol** 1996;38(6):487–94

GM-CSF did not allow doxorubicin dose escalation in the MAID regimen: a phase I trial. A Southwest Oncology Group study. Hicks LG, et al. **Cancer Invest** 1996; 14(6):507–12

The effect of GM-CSF on reticulocytes, haemoglobin and haematocrit in patients receiving chemotherapy for solid tumours. Paterakis GS, et al. **Clin Lab Haematol** 1996 Mar; 18(1):7–12

Granulocyte-macrophage colony-stimulating factor given as an adjuvant to persons not responding to hepatitis B vaccine [letter] Carlsson T, et al. **Infection** 1997 Mar–Apr; 25(2):129

Application of cytokine intervention for improved radio-antibody dose delivery. Blumenthal RD, et al. **Int J Cancer** 1997 Jul 3;72(1):166–73

Phase I trial of recombinant fusion protein PIXY321 for mobilization of peripheral-blood cells. Bishop MR, et al. **J Clin Oncol** 1996 Sep;14(9):2521–6

Similar breast cancer cell contamination of single-day peripheral-blood progenitor-cell collections obtained after priming with hematopoietic growth factor alone or after cyclophosphamide followed by growth factor. Passos-Coelho JL, et al. **J Clin Oncol** 1996 Sep; 14(9):2569–75

Systemic cytokine administration alters the histology of the eruption of lymphocyte recovery. Horn T, et al. **J Cutan Pathol** 1996 Jun;23(3):242–6

Macrophage colony-stimulating factor (M-CSF) inhibits the decrease in the amount of rRNA and IA beta mRNA in cultured epidermal Langerhans cells of the mouse. Koyama Y, et al. **J Dermatol** 1996 Feb;23(2):73–82

Sequential use of G-CSF and GM-CSF after heart-lung transplantation [letter] Ippoliti G, et al. **J Heart Lung Transplant** 1997 Apr;16(4):473–5

Topical granulocyte-macrophage colony-stimulating factor in patients with cancer and impaired wound healing [letter] Raderer M, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):263

A sequential erythropoietin and GM-CSF schedule offers clinical benefits in the treatment of anaemia in myelodysplastic syndromes. Bernell P, et al. **Leuk Res** 1996 Aug;20(8):693–9

Granulocyte-macrophage colony-stimulating factor mouthwashes improve radiation induced mucositis in AIDS patients [letter] de la Torre A, et al. **Radiother Oncol** 1997 May;43(2):229–30

[Contribution of hematopoietic growth factors and especially in the context of grafts of hematopoietic stem cells] Fouillard L. **Ann Pharm Fr** 1996;54(4):157–61 (Eng. Abstr.) **(Fre)**

ADVERSE EFFECTS

Continuous infusion or subcutaneous injection of granulocyte-macrophage colony-stimulating factor: increased efficacy and reduced toxicity when given subcutaneously. Honkoop AH, et al. **Br J Cancer** 1996 Oct; 74(7):1132–6

Granulocyte-macrophage colony-stimulating factor with induction treatment of acute myelogenous leukemia [letter; comment] Adkins DR, et al. **J Clin Oncol** 1997 Feb; 15(2):862–3. Comment on: J Clin Oncol 1996 Jul;14(7):2150–9.

Long-term safety of GM-CSF (molgramostim) administration after allogeneic bone marrow transplantation for hematologic malignancies: five-year follow-up of a double-blind randomized placebo-controlled study. Singhal S, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):301–7

Functional features of neutrophils induced by G-CSF and GM-CSF treatment: differential effects and clinical implications. Spiekermann K, et al. **Leukemia** 1997 Apr; 11(4):466–78 (182 ref.)

Clinical responses and lymphoid infiltrates in metastatic melanoma following treatment with intralesional GM-CSF. Si Z, et al. **Melanoma Res** 1996 Jun;6(3):247–55

Mood disorder with manic features in a patient treated with granulocyte-monocyte colony stimulating factor [letter] Zdanowicz NH, et al. **Psychosomatics** 1996 May-Jun; 37(3):305–6

Randomized trial comparing the tolerability of sargramostim (yeast-derived RhuGM-CSF) and filgrastim (bacteria-derived RhuG-CSF) in cancer patients receiving myelosuppressive chemotherapy. Beveridge RA, et al. **Support Care Cancer** 1997 Jul;5(4):289–98

ANALYSIS

Cytokine concentrations in sputum from patients with cystic fibrosis and their relation to eosinophil activity. Koller DY, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1050–4

Expansion of an unusual population of Gr-1+CD3int cells in the lymph nodes and other peripheral organs of mice carrying the lpr gene. Honda S, et al. **Cell Immunol** 1997 May 1;177(2):144–53

Measurement of apoptosis, proliferation and three cytokines in 46 patients with myelodysplastic syndromes [see comments] Shetty V, et al. **Leuk Res** 1996 Nov-Dec; 20(11–12):891–900. Comment in: Leuk Res 1996 Nov-Dec;20(11–12):881–90.

Identification of a Kb-restricted CTL epitope of beta-galactosidase: potential use in development of immunization protocols for "self" antigens. Overwijk WW, et al. **Methods** 1997 Jun;12(2):117–23

Inflammatory cytokines in the herniated disc of the lumbar spine. Takahashi H, et al. **Spine** 1996 Jan 15;21(2):218–24

Development of a sandwich ELISA for ovine granulocyte/macrophage colony-stimulating factor. Entrican G, et al. **Vet Immunol Immunopathol** 1996 Mar; 50(1–2):105–15

ANTAGONISTS & INHIBITORS

Macrophage inflammatory protein-1alpha and interferon-inducible protein 10 inhibit synergistically induced growth factor stimulation of MAP kinase activity and suppress phosphorylation of eukaryotic initiation factor 4E and 4E binding protein 1. Aronica SM, et al. **Blood** 1997 May 15;89(10):3582–95

Inhibition of proliferation and induction of apoptosis in juvenile myelomonocytic leukemic cells by the granulocyte-macrophage colony-stimulating factor analogue E21R. Iversen PO, et al. **Blood** 1996 Oct 1; 88(7):2634–9

Characterization of potential antagonists of human interleukin 5 demonstrates their cross-reactivity with receptors for interleukin 3 and granulocyte-macrophage colony-stimulating factor. Wiekowski M, et al. **Eur J Biochem** 1997 Jun 15;246(3):625–32

The apoptosis-inducing granulocyte-macrophage colony-stimulating factor (GM-CSF) analog E21R functions through specific regions of the heterodimeric GM-CSF receptor and requires interleukin-1beta-converting enzyme-like proteases. Iversen PO, et al. **J Biol Chem** 1997 Apr 11;272(15):9877–83

Rational design, analysis, and potential utility of GM-CSF antagonists. Monfardini C, et al. **Proc Assoc Am Physicians** 1996 Nov;108(6):420–31 (55 ref.)

BIOSYNTHESIS

Interleukin-3 interleukin-5, and granulocyte-macrophage colony-stimulating factor expression in nasal polyps. Allen JS, et al. **Am J Otolaryngol** 1997 Jul–Aug;18(4):239–46

Overexpression of granulocyte-macrophage colony-stimulating factor induces pulmonary granulation tissue formation and fibrosis by induction of transforming growth factor-beta 1 and myofibroblast accumulation. Xing Z, et al. **Am J Pathol** 1997 Jan;150(1):59–66

TGF-beta 2 and PGE2 in rabbit blastocoelic fluid can modulate GM-CSF production by human lymphocytes. Fortin M, et al. **Am J Reprod Immunol** 1997 Aug; 38(2):129–39

Upregulatory effects of interleukin-4 and interleukin-13 but not interleukin-10 on granulocyte/macrophage colony-stimulating factor production by human bronchial epithelial cells. Nakamura Y, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):680–7

Production of granulocyte/macrophage and macrophage colony-stimulating factors by human thyrocytes in culture. Kasai K, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):191–6

Ligand-induced differentiation of glucocorticoid receptor (GR) trans-repression and transactivation. Adcock IM, et al. **Biochem Soc Trans** 1996 May;24(2):267S

NF-kappa B involvement in IL-1 beta-induction of GM-CSF and COX-2: inhibition by glucocorticoids does not require I-kappa B. Adcock IM, et al. **Biochem Soc Trans** 1997 May;25(2):154S

Ovarian steroid hormones regulate granulocyte-macrophage colony-stimulating factor synthesis by uterine epithelial cells in the mouse. Robertson SA, et al. **Biol Reprod** 1996 Jan;54(1):183–96

Cytokine production and adhesive protein expression by endothelial cells after contact with polyethylene terephthalate. Cenni E, et al. **Biomaterials** 1996 Nov; 17(21):2071–6

Distinct expressions of three cytokines by IL-1-stimulated astrocytes in vitro and in AIDS brain. Vitkovic L, et al. **Brain Behav Immun** 1995 Dec;9(4):378–88

IL-4 and TNF-alpha-mediated proliferation of the human megakaryocytic line M-07E is regulated by induced autocrine production of GM-CSF. Wadhwa M, et al. **Cytokine** 1996 Dec;8(12):900–9

Helicobacter pylori stimulates granulocyte-macrophage colony-stimulating factor (GM-CSF) production from cultured antral biopsies and a human gastric epithelial cell line. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):451–5

Increased bronchoalveolar granulocytes and granulocyte/macrophage colony-stimulating factor during exacerbations of chronic bronchitis. Balbi B, et al. **Eur Respir J** 1997 Apr;10(4):846–50

Priming of mouse macrophages with the macrophage colony-stimulating factor (CSF-1) induces a variety of pathways that regulate expression of the interleukin 6 (Il6) and granulocyte-macrophage colony-stimulating factor (Csfgm) genes. Kamdar SJ, et al. **Exp Cell Res** 1997 Aug 25;235(1):108–16

Antihistamines and production of granulocyte-macrophage colony-stimulating factor and interleukin-8 by human bronchial epithelial cells in vitro: evaluation of the effects of loratadine and cetirizine. Amsellem C, et al. **Gen Pharmacol** 1996 Mar;27(2):269–72

Epithelial cells are the major source of biologically active granulocyte macrophage colony-stimulating factor in human endometrium. Giacomini G, et al. **Hum Reprod** 1995 Dec;10(12):3259–63

Platelet-activating factor stimulates interleukin-6 production by human endothelial cells and synergizes with tumor necrosis factor for enhanced production of granulocyte-macrophage colony stimulating factor. Lacasse C, et al. **Inflammation** 1997 Apr;21(2):145–58

Increased recurrence and metastasis in patients whose primary head and neck squamous cell carcinomas secreted granulocyte-macrophage colony-stimulating factor and contained CD34+ natural suppressor cells. Young MR, et al. **Int J Cancer** 1997 Feb 20;74(1):69–74

Production of IL-5 and granulocyte-macrophage colony-stimulating factor by naive human mast cells activated by high-affinity IgE receptor ligation. Bressler RB, et al. **J Allergy Clin Immunol** 1997 Apr;99(4):508–14

Eosinophil peroxidase stimulates the release of granulocyte-macrophage colony-stimulating factor from bronchial epithelial cells. Motojima S, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S216–23

Dexamethasone inhibits prolonged survival and autocrine granulocyte-macrophage colony-stimulating factor production by human eosinophils cultured on laminin or tissue fibronectin. Walsh GM, et al. **J Allergy Clin Immunol** 1997 Aug;100(2):208–15

Granulocyte macrophage colony-stimulating factor is overproduced by keratinocytes in atopic dermatitis. Implications for sustained dendritic cell activation in the skin. Pastore S, et al. **J Clin Invest** 1997 Jun 15; 99(12):3009–17

Interleukin 10 inhibits growth and granulocyte/macrophage colony-stimulating factor production in chronic myelomonocytic leukemia cells. Geissler K, et al. **J Exp Med** 1996 Oct 1;184(4):1377–84

Colchicine down-regulates lipopolysaccharide-induced granulocyte-macrophage colony-stimulating factor production in murine macrophages. Rao P, et al. **J Immunol** 1997 Oct 1;159(7):3531–9

Stimulation of granulocyte-macrophage colony-stimulating factor (GM-CSF) production and its role as an autocrine inducer of CD14 upregulation in human myeloid leukemia cells. Akin C, et al. **J Interferon Cytokine Res** 1996 Jun; 16(6):479–86

Production of granulocyte colony stimulating factor, granulocyte macrophage colony stimulating factor, and tumor necrosis factor alpha during remission and infections in patients with acute leukemia. Duru F, et al. **J Med** 1995; 26(5–6):241–52

Production of granulocyte colony stimulating factor and granulocyte macrophage colony stimulating factor by carcinomas in a dog and a cat with paraneoplastic leukocytosis [letter; comment] Padrid P, et al. **J Vet Intern Med** 1997 Mar–Apr;11(2):95. Comment on: J Vet Intern Med 1996 Nov-Dec;10(6):405–8.

Selective block in erythropoietin-induced differentiation of growth factor-independent retrovirally-infected TF-1 cells. Percy MJ, et al. **Leuk Res** 1997 Jul;21(7):657–66

The human bladder carcinoma cell line 5637 constitutively secretes functional cytokines. Quentmeier H, et al. **Leuk Res** 1997 Apr;21(4):343–50

Establishment of multipotential and antigen presenting cell lines derived from myeloid leukemias in GM-CSF transgenic mice. Rasko JE, et al. **Leukemia** 1997 May; 11(5):732–42

MEL-P, a GM-CSF-producing human melanoma cell line [published erratum appears in Melanoma Res 1996 Aug;6(4):337] Ciotti P, et al. **Melanoma Res** 1996 Jun; 6(3):203–13

Macrophage growth factors introduced into the kidney initiate renal injury. Naito T, et al. **Mol Med** 1996 May; 2(3):297–312

Arsenic can mediate skin neoplasia by chronic stimulation of keratinocyte-derived growth factors. Germolec DR, et al. **Mutat Res** 1997 Jun;386(3):209–18

An analysis of monocyte/macrophage subsets and granulocyte-macrophage colony-stimulating factor expression in renal allograft biopsies. Kajiwara I, et al.

Nephron 1996;73(4):536–43

Vasoactive intestinal peptide (VIP) induces IL-6 and IL-8, but not G-CSF and GM-CSF release from a human bronchial epithelial cell line. Mullol J, et al. **Neuropeptides** 1997 Apr;31(2):119–24

Identification of proteins binding specifically to the 3'-untranslated region of granulocyte/macrophage-colony stimulating factor mRNA. Bichsel VE, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2417–23

Antitumor effect of murine colon carcinoma cells retrovirally transduced with interleukin-4 and granulocyte macrophage-colony stimulating factor genes. Gunji Y, et al. **Oncology** 1997 Jan–Feb;54(1):69–73

Granulocyte-macrophage colony-stimulating factor in amniotic fluid and in airway specimens of newborn infants. Bry K, et al. **Pediatr Res** 1997 Jan;41(1):105–9

Uptake of 12-HETE by human bronchial epithelial cells (HBEC): effects on HBEC cytokine production. Gormand F, et al. **Prostaglandins** 1996 Apr;51(4):263–73

Granulocyte-macrophage colony stimulating factors (GM-CSF) and interleukin 8 (IL-8) production by human bronchial epithelial cells (HBEC) in asthmatics and controls. Lack of in vitro effect of salbutamol compared to sodium nedocromil. Gormand F, et al. **Pulm Pharmacol** 1995 Apr–Jun;8(2–3):107–13

[Study of the favorable culture condition to produce granulocyte. Macrophage colony stimulating factor and interleukin-6 by human nasal epithelial cells] Takizawa R, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb;64(1):45–52 (Eng. Abstr.) **(Jpn)**

BLOOD

Plasma concentrations of granulocyte colony stimulating factor in preterm infants in the first few hours of life [letter; comment] Yurdakök M, et al. **Acta Paediatr** 1996 Nov; 85(11):1389–90. Comment on: Acta Paediatr 1996 Mar;85(3):351–5.

Serum interleukin-1 and granulocyte-macrophage colony-stimulating factor levels in protein malnourished patients during acute infection. Aslan Y, et al. **Cent Afr J Med** 1996 Jun;42(6):179–84

Gene expression of interleukin-3 and granulocyte macrophage colony-stimulating factor in circulating CD4+ T cells in acute severe asthma. Lai CK, et al. **Clin Exp Allergy** 1996 Feb;26(2):138–46

Serum soluble CD23 but not IL8, IL10, GM-CSF, or IFN-gamma is elevated in patients with hepatitis C infection. Bansal AS, et al. **Clin Immunol Immunopathol** 1997 Aug;84(2):139–44

Absence of CSF-1 in macrophage-deficient op/op mice has differential effects on macrophage colony stimulating activity (M-CSA) released by various organs and cells. Wiktor-Jedrzejczak W, et al. **Folia Histochem Cytobiol** 1995;33(4):259–65

Interferon-alpha inhibits CFU-GM mobilization following chemotherapy and G-CSF administration. Ballarino P, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):953–6

Tinospora cordifolia induces colony stimulating activity in serum. Thatte UM, et al. **J Postgrad Med** 1994 Oct–Dec; 40(4):202–3

Temporary appearance of a circulating granulocyte-macrophage colony-stimulating factor in lethal murine malaria. Owhashi M, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):530–4

Serum granulocyte-macrophage colony-stimulating factor and interleukin-1 levels in patients with repeated and non-repeated pulmonary infections. Erduran E, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):203–11

Serum erythropoietin and granulocyte-macrophage-colony stimulating factor levels with megadose methylprednisolone treatment. Sayli TR, et al. **Turk J Pediatr** 1996 Oct–Dec;38(4):491–5

[Plasma macrophage colony-stimulating factor, granulocyte macrophage colony-stimulating factor and granulocyte colony-stimulating factor levels in continuous ambulatory peritoneal dialysis patients] Saionji K, et al. **Rinsho Byori** 1997 May;45(5):493–7 (Eng. Abstr.) **(Jpn)**

[Level of GM-CSF and IL-4 in serum of children with bronchial asthma] Lewandowicz-Uszyńska A, et al. **Pneumonol Alergol Pol** 1996;64(7–8):450–4 (Eng. Abstr.) **(Pol)**

CHEMISTRY

Oligomerization of the soluble granulocyte-macrophage colony-stimulating factor receptor: identification of the functional ligand-binding species. Brown CB, et al. **Cytokine** 1997 Apr;9(4):219–25

Mapping of monoclonal antibody- and receptor-binding domains on human granulocyte-macrophage colony-stimulating factor (rhGM-CSF) using a surface plasmon resonance-based biosensor. Laricchia-Robbio L, et al. **Hybridoma** 1996 Oct;15(5):343–50

Refined crystal structure and mutagenesis of human granulocyte-macrophage colony-stimulating factor. Rozwarski DA, et al. **Proteins** 1996 Nov;26(3):304–13

DEFICIENCY

Dendritic cell development in culture from thymic precursor cells in the absence of granulocyte/macrophage colony-stimulating factor. Saunders D, et al. **J Exp Med** 1996 Dec 1;184(6):2185–96

Increased tolerance to endotoxin by granulocyte-macrophage colony-stimulating factor-deficient mice. Basu S, et al. **J Immunol** 1997 Aug 1;159(3):1412–7

DIAGNOSTIC USE

Prediction of bone marrow involvement in patients with malignant lymphoma by GM-CSF stimulation test. Unal A, et al. **Int J Hematol** 1996 Oct;64(3–4):297–300

DRUG EFFECTS

Si-jun-zi-tang regulate granulocyte macrophage colony-stimulating factor secretion by human peripheral blood mononuclear cells. Tseng J, et al. **Am J Chin Med** 1996;24(1):45–52

Myelotoxic effects of the bifunctional alkylating agent bizelesin on human, canine and murine myeloid progenitor cells. Volpe DA, et al. **Cancer Chemother Pharmacol** 1996; 39(1–2):143–9

GENETICS

Differential gene expression for interleukin-13 and other cytokines in the skin of atopic dermatitis patients and healthy subjects. Van der Ploeg I, et al. **Adv Exp Med Biol** 1996;409:403–4

GM-CSF mRNA and protein in human skin-derived lymph. Yawalkar N, et al. **Arch Dermatol Res** 1996 Oct; 288(11):637–40

Increased granulocyte-macrophage colony-stimulating factor mRNA instability in cord versus adult mononuclear cells is translation-dependent and associated with increased levels of A + U-rich element binding factor. Buzby JS, et al. **Blood** 1996 Oct 15;88(8):2889–97

A novel herpes vector for the high-efficiency transduction of normal and malignant human hematopoietic cells. Dilloo D, et al. **Blood** 1997 Jan 1;89(1):119–27

Differential transfection efficiency rates of the GM-CSF gene into human renal cell carcinoma lines by lipofection. Hernández A, et al. **Cancer Gene Ther** 1997 Jan–Feb; 4(1):59–65

Intratumoral injection of GM-CSF gene encoded recombinant vaccinia virus elicits potent antitumor response in a mixture melanoma model. Ju DW, et al. **Cancer Gene Ther** 1997 Mar–Apr;4(2):139–44

A case report: immune responses and clinical course of the first human use of granulocyte/macrophage-colony-stimulating-factor-transduced autologous melanoma cells for immunotherapy. Ellem KA, et al. **Cancer Immunol Immunother** 1997 Mar; 44(1):10–20

Reduced efficacy of allogeneic versus syngeneic fibroblasts modified to secrete cytokines as a tumor vaccine adjuvant. Aruga A, et al. **Cancer Res** 1997 Aug 1;57(15):3230–7

Bioactivity of autologous irradiated renal cell carcinoma vaccines generated by ex vivo granulocyte-macrophage colony-stimulating factor gene transfer. Simons JW, et al. **Cancer Res** 1997 Apr 15;57(8):1537–46

Regulation of GM-CSF gene transcription by core-binding factor. Cockerill PN, et al. **Cell Growth Differ** 1996 Jul; 7(7):917–22

Signals for activation of the GM-CSF promoter and enhancer in T cells. Shannon MF, et al. **Crit Rev Immunol** 1997;17(3–4):301–23 (161 ref.)

Selected strategies to augment polynucleotide immunization. Conry RM, et al. **Gene Ther** 1996 Jan;3(1):67–74

Adoptive immunotherapy of cancer with activated lymph node cells primed in vivo with autologous tumor cells transduced with the GM-CSF gene. Chang AE, et al. **Hum Gene Ther** 1996 Apr 10;7(6):773–92

Intramarrow cytokine gene transfer by adenoviral vectors in dogs. Foley R, et al. **Hum Gene Ther** 1997 Mar 20; 8(5):545–53

Particle-mediated gene transfer of granulocyte-macrophage colony-stimulating factor cDNA to tumor cells: implications for a clinically relevant tumor vaccine. Mahvi DM, et al. **Hum Gene Ther** 1996 Aug 20;7(13):1535–43

Phase I/IB study of immunization with autologous tumor cells transfected with the GM-CSF gene by particle-mediated transfer in patients with melanoma or sarcoma. Mahvi DM, et al. **Hum Gene Ther** 1997 May 1; 8(7):875–91

Granulocyte-macrophage colony-stimulating factor and B7-2 combination immunogene therapy in an allogeneic Hu-PBL-SCID/beige mouse-human glioblastoma multiforme model. Parney IF, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1073–85

Cancer gene therapy using tumor cells infected with recombinant vaccinia virus expressing GM-CSF. Qin H, et al. **Hum Gene Ther** 1996 Oct 1;7(15):1853–60

High mobility group protein I(Y) is required for function and for c-Rel binding to CD28 response elements within the GM-CSF and IL-2 promoters. Himes SR, et al. **Immunity** 1996 Nov;5(5):479–89

Endogenous GM-CSF is involved as an autocrine growth factor for human osteoblastic cells. Modrowski D, et al. **J Cell Physiol** 1997 Jan;170(1):35–46

Deoxyribonucleic acid triplex formation inhibits granulocyte macrophage colony-stimulating factor gene expression and suppresses growth in juvenile myelomonocytic leukemic cells. Kochetkova M, et al. **J Clin Invest** 1997 Jun 15; 99(12):3000–8

Differential regulation of granulocyte-macrophage colony-stimulating factor mRNA and protein expression in human thyrocytes and thyroid-derived fibroblasts by interleukin-1 alpha and tumor necrosis factor-alpha. Aust G, et al. **J Endocrinol** 1996 Nov;151(2):277–85

Intranasal immunization of a DNA vaccine with IL-12- and granulocyte-macrophage colony-stimulating factor (GM-CSF)-expressing plasmids in liposomes induces strong mucosal and cell-mediated immune responses against HIV-1 antigens. Okada E, et al. **J Immunol** 1997 Oct 1;159(7):3638–47

Systemic and local paracrine cytokine therapies using transduced tumor cells are synergistic in treating intracranial tumors. Thompson RC, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):405–13

Polymerase chain reaction cloning and expression of the rat granulocyte-macrophage colony-stimulating factor. Oaks MK, et al. **J Interferon Cytokine Res** 1995 Dec; 15(12):1095–102

Mapping the ovine genes encoding IL3, IL4, IL5, and CSF2 to sheep chromosome 5q13–q15 by FISH. Hawken RJ, et al. **Mamm Genome** 1996 Nov;7(11):858–9

Granulocyte-macrophage colony-stimulating factor: presence in human follicular fluid, protein secretion and mRNA expression by ovarian cells. Jasper MJ, et al. **Mol Hum Reprod** 1996 Aug;2(8):555–62

Induction of antigen-specific tumor immunity by genetic and cellular vaccines against MAGE: enhanced tumor protection by coexpression of granulocyte-macrophage colony-stimulating factor and B7-1. Büeler H, et al. **Mol Med** 1996 Sep;2(5):545–55

ETS1, NFkappaB and AP1 synergistically transactivate the human GM-CSF promoter. Thomas RS, et al. **Oncogene** 1997 Jun 12;14(23):2845–55

Thrombin and trypsin induce granulocyte-macrophage colony-stimulating factor and interleukin-6 gene expression in cultured normal human keratinocytes. Wakita H, et al. **Proc Assoc Am Physicians** 1997 Mar; 109(2):190–207

Bovine alpha s1-casein gene sequences direct high level expression of human granulocyte-macrophage colony-stimulating factor in the milk of transgenic mice. Uusi-Oukari M, et al. **Transgenic Res** 1997 Jan;6(1):75–84

IMMUNOLOGY

Immune responsiveness to a murine mammary carcinoma modified to express B7-1, interleukin-12, or GM-CSF. Aruga E, et al. **Cancer Gene Ther** 1997 May–Jun; 4(3):157–66

Construction of recombinant vaccinia virus expressing GM-CSF and its use as tumor vaccine. Qin HX, et al. **Gene Ther** 1996 Jan;3(1):59–66

Mapping of monoclonal antibody- and receptor-binding domains on human granulocyte-macrophage colony-stimulating factor (rhGM-CSF) using a surface plasmon resonance-based biosensor. Laricchia-Robbio L, et al. **Hybridoma** 1996 Oct;15(5):343–50

Granulocyte-macrophage colony-stimulating factor given as an adjuvant to persons not responding to hepatitis B vaccine [letter] Carlsson T, et al. **Infection** 1997 Mar–Apr; 25(2):129

Granulocyte macrophage colony stimulating factor induces Fc epsilon RII/CD23 expression on normal human polymorphonuclear neutrophils. Yamaoka KA, et al. **Int Immunol** 1996 Apr;8(4):479–90

Increased tolerance to endotoxin by granulocyte-macrophage colony-stimulating factor-deficient mice. Basu S, et al. **J Immunol** 1997 Aug 1;159(3):1412–7

Interleukin-10 prevents dendritic cell accumulation and vaccination with granulocyte-macrophage colony-stimulating factor gene-modified tumor cells. Qin Z, et al. **J Immunol** 1997 Jul 15;159(2):770–6

Enhanced immune priming with spatial distribution of paracrine cytokine vaccines. Jaffee EM, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):176–83

Neutralising antibodies to granulocyte-macrophage colony stimulating factor (GM-CSF) in carcinoma patients following GM-CSF combination therapy. Ragnhammar P, et al. **Med Oncol** 1996 Sep;13(3):161–6 (30 ref.)

Amplification of T-cell and antibody responses in DNA-based immunization with HIV-1 Nef by co-injection with a GM-CSF expression vector. Svanholm C, et al. **Scand J Immunol** 1997 Sep;46(3):298–303

Granulocyte-macrophage colony-stimulating factor overrides the immunosuppressive function of corticosteroids on rat pulmonary dendritic cells. Lim TK, et al. **Stem Cells** 1996 May;14(3):292–9 (62 ref.)

[Hematopoietic growth factors and anti-infective respiratory defenses] Gagnadoux F, et al. **Rev Mal Respir** 1997 Apr; 14(2):93–9 (40 ref.) (Eng. Abstr.) **(Fre)**

ISOLATION & PURIFICATION

Analytical partitioning of poly(ethylene glycol)-modified proteins. Delgado C, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):263–72

METABOLISM

Autocrine activation of the IL-3/GM-CSF/IL-5 signaling pathway in leukemic cells. Paul CC, et al. **Am J Hematol** 1997 Oct;56(2):79-85

GM-CSF mRNA and protein in human skin-derived lymph. Yawalkar N, et al. **Arch Dermatol Res** 1996 Oct; 288(11):637-40

Establishment of human granulocyte-macrophage colony stimulating factor producing transgenic SCID mice. Miyakawa Y, et al. **Br J Haematol** 1996 Dec;95(3):437-42

Release of granulocyte-macrophage colony stimulating factor by human cultured airway smooth muscle cells: suppression by dexamethasone. Saunders MA, et al. **Br J Pharmacol** 1997 Feb;120(4):545-6

Immunohistochemical detection of GM-CSF, IL-4 and IL-5 in a murine model of allergic bronchopulmonary aspergillosis. Chu HW, et al. **Clin Exp Allergy** 1996 Apr; 26(4):461-8

Sex and parity modulate cytokine production during murine ageing. Barrat F, et al. **Clin Exp Immunol** 1997 Sep; 109(3):562-8

Oligomerization of the soluble granulocyte-macrophage colony-stimulating factor receptor: identification of the functional ligand-binding species. Brown CB, et al. **Cytokine** 1997 Apr;9(4):219-25

High-level expression of the ER-MP58 antigen on mouse bone marrow hematopoietic progenitor cells marks commitment to the myeloid lineage. de Bruijn MF, et al. **Eur J Immunol** 1996 Dec;26(12):2850-8

Allergen-induced release of GM-CSF and IL-8 in vitro by nasal polyp tissue from atopic subjects prolongs eosinophil survival. Park HS, et al. **Eur Respir J** 1997 Jul; 10(7):1476-82

Effect of topical anti-inflammatory drugs on epithelial cell-induced eosinophil survival and GM-CSF secretion. Roca-Ferrer J, et al. **Eur Respir J** 1997 Jul;10(7):1489-95

Involvement of the fourth alpha-helix of mouse granulocyte-macrophage colony-stimulating factor in binding to the alpha-subunit of the receptor complex. Altmann SW, et al. **Growth Factors** 1995;12(4):251-62

Interacting residues in the extracellular region of the common beta subunit of the human granulocyte-macrophage colony-stimulating factor, interleukin (IL)-3, and IL-5 receptors involved in constitutive activation. Jenkins BJ, et al. **J Biol Chem** 1996 Nov 22;271(47):29707-14

Alterations in IL-6, IL-8, GM-CSF, TNF-alpha, and IFN-gamma release by peripheral mononuclear cells in patients with active vitiligo. Yu HS, et al. **J Invest Dermatol** 1997 Apr;108(4):527-9

Binding of human GM-CSF to synthetic peptides of the alpha subunit of its receptor. Di Bartolo V, et al. **J Recept Signal Transduct Res** 1996 Jan-Mar;16(1-2):77-92

Interleukin-6, interferon-gamma, interleukin-8, and granulocyte-macrophage colony stimulating factor levels in human amniotic fluid at term. Oláh KS, et al. **J Reprod Immunol** 1996 Nov;32(1):89-98

Trauma-hemorrhage induces increased thymic apoptosis while decreasing IL-3 release and increasing GM-CSF. Xu YX, et al. **J Surg Res** 1997 Feb 15;68(1):24-30

Production of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor by carcinomas in a dog and a cat with paraneoplastic leukocytosis [see comments] Sharkey LC, et al. **J Vet Intern Med** 1996 Nov-Dec;10(6):405-8. Comment in: J Vet Intern Med 1997 Mar-Apr;11(2):95.

Glomerular expression of macrophage colony-stimulating factor and granulocyte-macrophage colony-stimulating factor in patients with various forms of glomerulonephritis. Matsuda M, et al. **Lab Invest** 1996 Sep;75(3):403-12

Emerging paradigms in granulocyte-macrophage colony-stimulating factor signaling. Gomez-Cambronero J, et al. **Life Sci** 1996;59(25-26):2099-111 (64 ref.)

Granulocyte-macrophage colony-stimulating factor: presence in human follicular fluid, protein secretion and mRNA expression by ovarian cells. Jasper MJ, et al. **Mol Hum Reprod** 1996 Aug;2(8):555-62

Prostacyclin modulates granulocyte/macrophage colony-stimulating factor release by human blood mononuclear cells. Luttmann W, et al. **Pulm Pharmacol** 1996 Feb;9(1):43-8

PHARMACOKINETICS

Delivery of cytokines by liposomes. III. Liposome-encapsulated GM-CSF and TNF-alpha show improved pharmacokinetics and biological activity and reduced toxicity in mice. Kedar E, et al. **J Immunother** 1997 May;20(3):180-93

PHARMACOLOGY

Possible role of tumor necrosis factor-alpha in erythropoietic suppression by endotoxin and granulocyte/macrophage colony-stimulating factor. Udupa KB, et al. **Am J Hematol** 1996 Jul;52(3):178-83

Specific inhibition of beta-tryptase expression in a human mast cell line by granulocyte-macrophage colony-stimulating factor produced by airways structural cells. Finotto S, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):355-60

Expression of vascular endothelial growth factor by human eosinophils: upregulation by granulocyte macrophage colony-stimulating factor and interleukin-5. Horiuchi T, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):70-7

Regulation of immunomodulatory functions by granulocyte-macrophage colony-stimulating factor and granulocyte colony-stimulating factor in vivo. Aman MJ, et al. **Ann Hematol** 1996 Nov;73(5):231-8

Allogeneic transplantation of peripheral blood progenitor cells. Link H, et al. **Ann Oncol** 1996;7 Suppl 2:41-5 (43 ref.)

Generation of dendritic cells in vitro from peripheral blood mononuclear cells with granulocyte-macrophage-colony-stimulating factor, interleukin-4, and tumor necrosis factor-alpha for use in cancer immunotherapy [see comments] Morse MA, et al. **Ann Surg** 1997 Jul;226(1):6-16. Comment in: Ann Surg 1997 Jul;226(1):1-5.

Dose intensification of chemotherapy and the role of granulocyte colony stimulating factor and granulocyte macrophage colony stimulating factor in small cell lung cancer. Tjan-Heijnen VC, et al. **Anticancer Drugs** 1997 Jul; 8(6):549-64 (125 ref.)

Retinoic acid combined with GM-CSF induces morphological changes with segmented nuclei in human myeloblastic leukemia ML-1 cells. Oka Y, et al. **Anticancer Res** 1997 May-Jun;17(3C):1951-5

Priming of neutrophil and monocyte activation in human immunodeficiency virus infection. Comparison of granulocyte colony-stimulating factor, granulocyte-macrophage colony-stimulating factor and interferon-gamma. Meyer CN, et al. **APMIS** 1996 Sep; 104(9):640-6

Activation of c-Jun N-terminal kinase by human granulocyte macrophage-colony stimulating factor in BA/F3 cells. Liu R, et al. **Biochem Biophys Res Commun** 1997 May 29; 234(3):611-5

Tyrosine phosphorylation of p38 but not extracellular signal-regulated kinase in normal human neutrophils stimulated by tumor necrosis factor: comparative study with granulocyte-macrophage colony-stimulating factor. Yuo A, et al. **Biochem Biophys Res Commun** 1997 Jun 9; 235(1):42-6

GM-CSF induces the tyrosine phosphorylation of three isoforms of Shc and its association with Grb2 in TF-1 cell. Shi X, et al. **Biochem Mol Biol Int** 1996 Aug;39(5):1071-6

Regulation of neutrophil apoptosis by diadenosine pentaphosphate and GM-CSF. Gasmi L, et al. **Biochem Soc Trans** 1996 Aug;24(3):491S

Modulation of neutrophil apoptosis by pharmacological agents. Moulding DA, et al. **Biochem Soc Trans** 1996 Aug; 24(3):492S

Transforming growth factor-beta increases the inhibitory effects of GM-CSF and dexamethasone on neutrophil apoptosis. Ward C, et al. **Biochem Soc Trans** 1997 May; 25(2):244S

Phosphotyrosine phosphatase activity in the macrophage is enhanced by lipopolysaccharide, tumor necrosis factor alpha, and granulocyte/macrophage-colony stimulating factor: correlation with priming of the respiratory burst. Bassal S, et al. **Biochim Biophys Acta** 1997 Mar 1; 1355(3):343-52

Stimulation of primed neutrophils by soluble immune complexes. Watson F, et al. **Biologicals** 1996 Dec; 24(4):307-11

Generation of CD1+RelB+ dendritic cells and tartrate-resistant acid phosphatase-positive osteoclast-like multinucleated giant cells from human monocytes. Akagawa KS, et al. **Blood** 1996 Nov 15;88(10):4029-39

Chimeric CLL-1 antibody fusion proteins containing granulocyte-macrophage colony-stimulating factor or interleukin-2 with specificity for B-cell malignancies exhibit enhanced effector functions while retaining tumor targeting properties. Hornick JL, et al. **Blood** 1997 Jun 15; 89(12):4437-47

Focal adhesion kinase upregulated by granulocyte-macrophage colony-stimulating factor but not by interleukin-3 in differentiating myeloid cells. Kume A, et al. **Blood** 1997 May 1;89(9):3434-42

Involvement of p21cip-1 and p27kip-1 in the molecular mechanisms of steel factor-induced proliferative synergy in vitro and of p21cip-1 in the maintenance of stem/progenitor cells in vivo. Mantel C, et al. **Blood** 1996 Nov 15;88(10):3710-9

Hematopoietic and lymphopoietic responses in human granulocyte-macrophage colony-stimulating factor (GM-CSF) receptor transgenic mice injected with human GM-CSF. Nishijima I, et al. **Blood** 1997 Aug 1;90(3):1031-8

Receptors that induce erythroid differentiation of Ba/F3 cells: structural requirements and effect on STAT5 binding. Pless M, et al. **Blood** 1997 May 1;89(9):3175-85

Contribution of both STAT and SRF/TCF to c-fos promoter activation by granulocyte-macrophage colony-stimulating factor. Rajotte D, et al. **Blood** 1996 Oct 15;88(8):2906-16

Granulocyte-macrophage colony-stimulating factor-activated signaling pathways in human neutrophils. I. Tyrosine phosphorylation-dependent stimulation of phosphatidylinositol 3-kinase and inhibition by phorbol esters. al-Shami A, et al. **Blood** 1997 Feb 1;89(3):1035-44

Activation of JAK2 in human vascular endothelial cells by granulocyte-macrophage colony-stimulating factor. Soldi R, et al. **Blood** 1997 Feb 1;89(3):863-72

Autologous stem cell transplantation: exogenous granulocyte colony-stimulating factor or granulocyte-macrophage colony-stimulating factor modulate the endogenous cytokine levels [letter] Testa U, et al. **Blood** 1997 Apr 1; 89(7):2615-7

Characterization of cis-acting sequences and trans-acting signals regulating early growth response 1 and c-fos promoters through the granulocyte-macrophage colony-stimulating factor receptor in BA/F3 cells. Watanabe S, et al. **Blood** 1997 Feb 15;89(4):1197-206

Human granulocyte-macrophage colony-stimulating factor (hGM-CSF) induces inhibition of intrathymic T-cell development in hGM-CSF receptor transgenic mice. Yasuda Y, et al. **Blood** 1997 Feb 15;89(4):1349-56

Mobilization of peripheral blood progenitor cells by cyclophosphamide and rhGM-CSF in multiple myeloma. Martinez E, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):1-7

Antitumor and accessory immune activities of peripheral blood stem cells mobilized with granulocyte-macrophage colony-stimulating factor. Triozzi PL, et al. **Bone Marrow Transplant** 1996 Jul;18(1):47-52

Neutrophil apoptosis is delayed by the diadenosine polyphosphates, Ap5A and Ap6A: synergism with granulocyte-macrophage colony-stimulating factor. Gasmi L, et al. **Br J Haematol** 1996 Dec;95(4):637-9

Cyclic AMP-elevating agents prolong or inhibit eosinophil survival depending on prior exposure to GM-CSF. Hallsworth MP, et al. **Br J Pharmacol** 1996 Jan; 117(1):79-86

Peripherally administered GM-CSF interferes with scopolamine-induced amnesia in mice: involvement of interleukin-1. Bianchi M, et al. **Brain Res** 1996 Aug 12; 729(2):285-8

Selective induction of interleukin-6 in mouse microglia by granulocyte-macrophage colony-stimulating factor. Suzumura A, et al. **Brain Res** 1996 Mar 25;713(1-2):192-8

Intratumoral injection of GM-CSF gene encoded recombinant vaccinia virus elicits potent antitumor response in a mixture melanoma model. Ju DW, et al. **Cancer Gene Ther** 1997 Mar-Apr;4(2):139-44

Potentiation of antitumor CTL response by GM-CSF involves a B7-dependent mechanism. Mokyr MB, et al. **Cell Immunol** 1997 Jun 15;178(2):152-61

Promotion of differentiation and proliferation of peripheral blood CD34+ cells in vitro by G-CSF. Xu J, et al. **Chin Med J (Engl)** 1996 May;109(5):372-5

The priming action of tumour necrosis factor-alpha (TNF-alpha) and granulocyte-macrophage colony-stimulating factor (GM-CSF) on neutrophils activated by inflammatory microcrystals. Burt HM, et al. **Clin Exp Immunol** 1997 Jun;108(3):432-7

Effects of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor on the bactericidal functions of neutrophils. Pitrak DL. **Curr Opin Hematol** 1997 May;4(3):183-90 (76 ref.)

Effect of granulocyte-macrophage colony stimulating factor and granulocyte colony stimulating factor on prolactin and adrenocorticotropic hormone secretion in rats: dose- and time-response in vivo studies. Komorowski J, et al. **Cytobios** 1996;86(346):147-53

Reduced hydrogen peroxide production in neutrophils from patients with diabetes. Inoue S, et al. **Diabetes Res Clin Pract** 1996 Jul;33(2):119-27

Lack of effect of granulocyte-macrophage colony-stimulating factor on secretion of interferon-tau, other proteins, and prostaglandin E2 by the bovine and ovine conceptus. de Moraes AA, et al. **Domest Anim Endocrinol** 1997 May;14(3):193-7

Induction by interferons of human eosinophil apoptosis and regulation by interleukin-3, granulocyte/macrophage-colony stimulating factor and interleukin-5. Morita M, et al. **Eur Cytokine Netw** 1996 Dec;7(4):725-32

Interleukin-10 prevents the generation of dendritic cells from human peripheral blood mononuclear cells cultured with interleukin-4 and granulocyte/macrophage-colony-stimulating factor. Buelens C, et al. **Eur J Immunol** 1997 Mar;27(3):756-62

Granulocyte-macrophage colony-stimulating factor (GM-CSF) priming of high-dose etoposide and cyclophosphamide: a pilot trial. Bernstein SH, et al. **Exp Hematol** 1996 Oct;24(12):1363-8

Pluripotent and lineage-committed CD34+ subsets in leukapheresis products mobilized by G-CSF, GM-CSF vs. a combination of both. Ho AD, et al. **Exp Hematol** 1996 Nov;24(13):1460-8

Macrophages from motheaten and viable motheaten mutant mice show increased proliferative responses to GM-CSF: detection of potential HCP substrates in GM-CSF signal transduction. Jiao H, et al. **Exp Hematol** 1997 Jul; 25(7):592-600

Donor-to-donor variability in the expansion potential of human bone marrow cells is reduced by accessory cells but not by soluble growth factors. Koller MR, et al. **Exp Hematol** 1996 Nov;24(13):1484-93

Effects of GM-CSF and ordinary supplements on the ramification of microglia in culture: a morphometrical study. Fujita H, et al. **Glia** 1996 Dec;18(4):269-81

Response of the blast stem cells of acute myeloblastic leukemia to G-CSF, GM-CSF, or the ligand for C-KIT, alone or in combination. McCulloch EA, et al. **Hematopathol Mol Hematol** 1996;10(3):111-22

Genetic immunotherapy of established tumors with adenovirus-murine granulocyte-macrophage

colony-stimulating factor. Lee CT, et al. **Hum Gene Ther** 1997 Jan 20;8(2):187-93

Gene therapy for metastatic brain tumors by vaccination with granulocyte-macrophage colony-stimulating factor-transduced tumor cells. Yu JS, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1065-72

A recombinant GM-CSF-PE40 ligand toxin is functionally active but not cytotoxic to cells. O'Brien P, et al. **Immunol Cell Biol** 1997 Jun;75(3):289-94

Modulation of endotoxin-induced histamine synthesis by cytokines in mouse bone marrow-derived macrophages. Takamatsu S, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S91-2

Enhanced expression of platelet-activating factor receptor on human eosinophils by interleukin-3, interleukin-5 and granulocyte-macrophage colony-stimulating factor. Kishimoto S, et al. **Int Arch Allergy Immunol** 1996;111 Suppl 1:63-5

Interleukin-3 (IL-3) and granulocyte-macrophage colony-stimulating factor (GM-CSF) can induce differentiation of chronic B cell leukemia expressing the alpha subunit of IL-3 and GM-CSF receptor. Shiiba M, et al. **Int Arch Allergy Immunol** 1996;111 Suppl 1:12-5

GM-CSF downregulates expression of tryptase, Fc epsilon RI and histamine in HMC-1 mast cells. Welker P, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):284-6

Effects of colony-stimulating factors (CSFs) on neutrophil apoptosis: possible roles at inflammation site. Hu B, et al. **Int J Hematol** 1997 Aug;66(2):179-88

GM-CSF- and IL-3-dependent CD34 expressing myeloid cell line (SAS-1) established from CD7 and CD34 expressing acute myeloblastic leukemic cells. Sasaki K, et al. **Int J Hematol** 1997 Jul;66(1):35-45

Effect of combination interleukin-3 (IL-3) and granulocyte-macrophage colony stimulating factor (GM-CSF) on hematopoiesis administered to retrovirus-infected immunodeficient mice receiving dose-escalation zidovudine (AZT). Gallicchio VS, et al. **Int J Immunopharmacol** 1995 Nov;17(11):865-78

The apoptosis-inducing granulocyte-macrophage colony-stimulating factor (GM-CSF) analog E21R functions through specific regions of the heterodimeric GM-CSF receptor and requires interleukin-1beta-converting enzyme-like proteases. Iversen PO, et al. **J Biol Chem** 1997 Apr 11;272(15):9877-83

IL-3, GM-CSF and CSF-1 modulate c-fms mRNA more rapidly in human early monocytic progenitors than in mature or transformed monocytic cells. Panterne B, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1795-801

Ultrastructure of resting and rh-GMCSF-treated human macrophages derived from blood monocytes. el Shewemi S, et al. **J Electron Microsc (Tokyo)** 1996 Oct;45(5):388-94

Protein kinase C dependent induction of pp125FAK in monocytes by colony stimulating factor-GM: evidence for a synergistic effect by the cytokine and 1,25 dihydroxyvitamin D3. Kanan RM, et al. **J Endocrinol** 1997 Feb;152(2):R19-22

Interleukin-18 (interferon-gamma-inducing factor) is produced by osteoblasts and acts via granulocyte/macrophage colony-stimulating factor and not via interferon-gamma to inhibit osteoclast formation. Udagawa N, et al. **J Exp Med** 1997 Mar 17;185(6):1005-12

Granulocyte-macrophage colony stimulating factor promotes prolonged survival and the support of virulent infection by African swine fever virus of macrophages generated from porcine bone marrow and blood. Denham S, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2625-30

Granulocyte-macrophage colony-stimulating factor and IFN-gamma restore the systemic TNF-alpha response to endotoxin in lipopolysaccharide-desensitized mice. Bundschuh DS, et al. **J Immunol** 1997 Mar 15; 158(6):2862-71

Recombinant human granulocyte-macrophage colony-stimulating factor (CSF), but not recombinant human granulocyte CSF, down-regulates the recombinant human stem cell factor-dependent differentiation of human fetal liver-derived mast cells. Du Z, et al. **J Immunol** 1997 Jul 15;159(2):838-45

Tyrosine phosphorylation of Shc is not required for proliferation or viability signaling by granulocyte-macrophage colony-stimulating factor in hematopoietic cell lines. Durstin M, et al. **J Immunol** 1996 Jul 15;157(2):534-40

Molecular and functional characteristics of dendritic cells generated from highly purified CD14+ peripheral blood monocytes. Pickl WF, et al. **J Immunol** 1996 Nov 1; 157(9):3850-9

In vitro prevention and reversal of lipopolysaccharide desensitization by IFN-gamma, IL-12, and granulocyte-macrophage colony-stimulating factor. Randow F, et al. **J Immunol** 1997 Mar 15;158(6):2911-8

Granulocyte-macrophage colony-stimulating factor regulates the functional adhesive state of very late antigen-4 expressed by eosinophils. Sung KL, et al. **J Immunol** 1997 Jan 15;158(2):919-27

Sequential potentiation and inhibition of PMN reactivity by maximally stimulated platelets. Aziz KA, et al. **J Leukoc Biol** 1997 Mar;61(3):322-8

GM-CSF and its effects on replication of HIV-1 in cells of macrophage lineage. Crowe SM, et al. **J Leukoc Biol** 1997 Jul;62(1):41-8 (100 ref.)

Random migration of polymorphonuclear leukocytes induced by GM-CSF involving a signal transduction pathway different from that of fMLP. Harakawa N, et al. **J Leukoc Biol** 1997 Apr;61(4):500-6

M-CSF and GM-CSF promote alveolar macrophage differentiation into multinucleated giant cells with distinct phenotypes. Lemaire I, et al. **J Leukoc Biol** 1996 Oct; 60(4):509-18

GM-CSF-modulated phagocytosis of Trichosporon beigelii by human neutrophils. Richardson MD, et al. **J Med Microbiol** 1997 Apr;46(4):321-5

Granulocyte-stimulating factor filgrastim and molgramostim induced recurring encephalopathy and focal status epilepticus [letter] Kastrup O, et al. **J Neurol** 1997 Apr; 244(4):274-5

Granulocyte-macrophage colony-stimulating factor (GM-CSF) enhances pulmonary defenses against pneumococcal infections after splenectomy. Hebert JC, et al. **J Trauma** 1996 Oct;41(4):663-6

Immunomodulation of peritoneal macrophages by granulocyte-macrophage colony-stimulating factor in humans. Selgas R, et al. **Kidney Int** 1996 Dec;50(6):2070-8

Granulocyte-colony stimulating factor, granulocyte-macrophage colony stimulating factor and interleukin 4 induce differentiation in the U-937 human monocytic leukemia cell line. Koss A, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):163-71,follow.186,color plate XIV-V

In vitro activity on myeloid progenitors of a combination of 2-chloro-2'-deoxyadenosine and interferon alpha: the effects of IL-1 and GM-CSF. Ballarino P, et al. **Leuk Res** 1996 Sep;20(9):777-80

Ricin fusion toxin targeted to the human granulocyte-macrophage colony stimulating factor receptor is selectively toxic to acute myeloid leukemia cells. Burbage C, et al. **Leuk Res** 1997 Jul;21(7):681-90

Selective block in erythropoietin-induced differentiation of growth factor-independent retrovirally-infected TF-1 cells. Percy MJ, et al. **Leuk Res** 1997 Jul;21(7):657-66

Regulation of the synthesis of bcl-2 protein by growth factors. Hu ZB, et al. **Leukemia** 1996 Dec;10(12):1925-9

Interaction of vitamin D derivatives and granulocyte-macrophage colony-stimulating factor in leukaemic cell differentiation. James SY, et al. **Leukemia** 1997 Jul;11(7):1017-25

The signal transduction through Grb2/Ash in hematopoietic cells. Odai H, et al. **Leukemia** 1997 Apr;11 Suppl 3:405-7

Differential effect of GM-CSF pretreatment on intracellular Ara-C metabolism in normal bone marrow mononuclear cells vs acute myeloid leukemia (AML) blasts. Reuter C, et al. **Leukemia** 1997 Apr;11(4):561-71

Roles of JAK kinase in human GM-CSF receptor signals. Watanabe S, et al. **Leukemia** 1997 Apr;11 Suppl 3:76-8

The effect of granulocyte-macrophage colony stimulating factor (rGM-CSF) on macrophage function in microbial disease. Jones TC. **Med Oncol** 1996 Sep;13(3):141-7 (54 ref.)

Effects of granulocyte-macrophage colony stimulating factor (GM-CSF) on biomaterial-associated staphylococcal infection in mice. Rózalska B, et al. **Microbiol Immunol** 1996;40(12):931-9

Effects of colony-stimulating factors on voltage-gated K+ currents of bone marrow-derived macrophages. Eder C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):198-202

Characterization of factor-independent variants derived from TF-1 hematopoietic progenitor cells: the role of the Raf/MAP kinase pathway in the anti-apoptotic effect of GM-CSF. Chao JR, et al. **Oncogene** 1997 Feb 13; 14(6):721-8

GM-CSF-induced priming of human neutrophils for enhanced phagocytosis and killing of asexual blood stages of Plasmodium falciparum: synergistic effects of GM-CSF and TNF. Kumaratilake LM, et al. **Parasite Immunol** 1996 Mar;18(3):115-23

Cytokine-induced expression of CD1b molecules by peripheral blood monocytes: influence of 3'-azido-3'-deoxythymidine. Giuliani A, et al. **Pharmacol Res** 1997 Feb;35(2):135-40

Cyclophosphamide/granulocyte colony-stimulating factor induces hematopoietic stem cells to proliferate prior to mobilization. Morrison SJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1908-13

TNF-alpha regulates GM-CSF-, IL-3- or M-CSF-induced Fc epsilon RII/CD23 gene expression and soluble Fc epsilon RII release by human monocytes. Hashimoto S, et al. **Scand J Immunol** 1997 Mar;45(3):255-60

Differential effect of erythropoietin and GM-CSF on megakaryocytopoiesis from primitive bone marrow cells in serum-free conditions. Cardier JE, et al. **Stem Cells** 1997; 15(4):286-90

An analysis of the effects of combined treatment with rmGM-CSF and PEG-rHuMGDF in murine bone marrow transplant recipients. Molineux G, et al. **Stem Cells** 1997; 15(1):43-9

Active immunization using dendritic cells mixed with tumor cells inhibits the growth of primary breast cancer. Coveney E, et al. **Surgery** 1997 Aug;122(2):228-34

[Biological properties of the colony-promoting activity in extracts prepared from murine kidney] Bamba T, et al. **Yakugaku Zasshi** 1996 Sep;116(9):719-27 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Overexpression of granulocyte-macrophage colony-stimulating factor induces pulmonary granulation tissue formation and fibrosis by induction of transforming growth factor-beta 1 and myofibroblast accumulation. Xing Z, et al. **Am J Pathol** 1997 Jan;150(1):59-66

Surfactant metabolism in transgenic mice after granulocyte macrophage-colony stimulating factor ablation. Ikegami M, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):L650-8

CD34+ hematopoietic progenitors from human cord blood differentiate along two independent dendritic cell pathways in response to granulocyte-macrophage colony-stimulating factor plus tumor necrosis factor alpha: II. Functional analysis. Caux C, et al. **Blood** 1997 Aug 15;90(4):1458-70

Role of granulocyte-macrophage colony-stimulating factor and granulocyte colony-stimulating factor in the development of an acute neutrophil inflammatory response in mice. Metcalf D, et al. **Blood** 1996 Nov 15;88(10):3755-64

Hematopoiesis in mice lacking the entire granulocyte-macrophage colony-stimulating factor/interleukin-3/interleukin-5 functions. Nishinakamura R, et al. **Blood** 1996 Oct 1;88(7):2458-64

Purification and molecular cloning of SH2- and SH3-containing inositol polyphosphate-5-phosphatase, which is involved in the signaling pathway of granulocyte-macrophage colony-stimulating factor, erythropoietin, and Bcr-Abl. Odai H, et al. **Blood** 1997 Apr 15;89(8):2745-56

Interleukin-1 but not tumour necrosis factor alpha synergistically upregulates the granulocyte-macrophage colony-stimulating factor-induced B7-1 expression of murine Langerhans cells. Furue M, et al. **Br J Dermatol** 1996 Aug;135(2):194-8

Differential effects of granulocyte/macrophage colony-stimulating factor (GM-CSF) in enhancing macrophage resistance to Legionella pneumophila vs Candida albicans. Yamamoto Y, et al. **Cell Immunol** 1997 Feb 25;176(1):75-81

The influence of granulocyte/macrophage colony-stimulating factor on dendritic cell levels in mouse lymphoid organs. Vremec D, et al. **Eur J Immunol** 1997 Jan;27(1):40-4

Galectin-3 inhibits granulocyte-macrophage colony-stimulating factor (GM-CSF)-driven rat bone marrow cell proliferation and GM-CSF-induced gene transcription. Krugluger W, et al. **Immunobiology** 1997 Jun; 197(1):97-109

Activated human mast cells release factors supporting eosinophil survival in vitro. Tachimoto H, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):293-4

The cytoplasmic domain of granulocyte-macrophage colony-stimulating factor (GM-CSF) receptor alpha subunit is essential for both GM-CSF-mediated growth and differentiation. Matsuguchi T, et al. **J Biol Chem** 1997 Jul 11;272(28):17450-9

Active specific immunotherapy of pulmonary metastasis with vaccinia melanoma oncolysate prepared from granulocyte/macrophage-colony-stimulating-factor-gene-encoded vaccinia virus. Ju DW, et al. **J Cancer Res Clin Oncol** 1996;122(12):716-22

The molecular mechanism of action of granulocyte-macrophage colony-stimulating factor. Kwon EM, et al. **J Investig Med** 1996 Oct;44(8):442-6 (51 ref.)

Clinical role of GM-CSF in neutrophil recovery in relation to health care parameters. Hofstra LS, et al. **Med Oncol** 1996 Sep;13(3):177-84 (66 ref.)

Granulocyte-macrophage colony-stimulating factor and the immune system. Tarr PE. **Med Oncol** 1996 Sep; 13(3):133-40 (101 ref.)

Role for granulocyte/macrophage colony-stimulating factor in pulmonary surfactant homeostasis. Luisetti M. **Monaldi Arch Chest Dis** 1997 Apr;52(2):176-7 (5 ref.)

In vitro production of megakaryocytes from PIXY321 versus GM-CSF-mobilized peripheral blood progenitor cells. Lefebvre P, et al. **Stem Cells** 1997;15(2):112-8

SECRETION

Interleukin-10 inhibits spontaneous colony-forming unit-granulocyte-macrophage growth from human peripheral blood mononuclear cells by suppression of endogenous granulocyte-macrophage colony-stimulating factor release. Oehler L, et al. **Blood** 1997 Feb 15; 89(4):1147-53

Effects of immunosuppressive drugs and antibiotics on GM-CSF and G-CSF secretion in vitro by monocytes, T lymphocytes and endothelial cells. Lenhoff S, et al. **Br J Haematol** 1996 Oct;95(1):33-8

Cytokine regulation of GM-CSF and G-CSF secretion by human umbilical cord vein endothelial cells (HUVEC). Lenhoff S, et al. **Cytokine** 1996 Sep;8(9):702-9

Constitutive secretion of GM-CSF by three different cell lines derived from a single patient with a progressive cutaneous lymphoproliferative disorder. Marti RM, et al. **Cytokine** 1996 Apr;8(4):323-9

Generation of effective cancer vaccines genetically engineered to secrete cytokines using adenovirus-enhanced transferrinfection (AVET). Schmidt W, et al. **Gene** 1997 Apr 29;190(1):211-6

A phase I study of vaccination with autologous, irradiated melanoma cells engineered to secrete human granulocyte-macrophage colony stimulating factor.

Dranoff G, et al. **Hum Gene Ther** 1997 Jan 1;8(1):111–23

Eosinophil peroxidase stimulates the release of granulocyte-macrophage colony-stimulating factor from bronchial epithelial cells. Motojima S, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 2):S216–23

Stimulation of blood mononuclear cells of atopic children with the relevant allergen induces the release of eosinophil chemotaxins such as IL-3, IL-5, and GM-CSF. Lantero S, et al. **J Asthma** 1997;34(2):141–52

Effective immunization against neuroblastoma using double-transduced tumor cells secreting GM-CSF and interferon-gamma. Bausero MA, et al. **J Immunother Emphasis Tumor Immunol** 1996 Mar; 19(2):113–24

Role of high molecular weight seminal vesicle proteins in eliciting the uterine inflammatory response to semen in mice. Robertson SA, et al. **J Reprod Fertil** 1996 Jul; 107(2):265–77

GM-CSF secretion in primary cultures of normal and cancerous human renal cells. Stephens ND, et al. **Kidney Int** 1996 Sep;50(3):1044–50

A factor secreted by human embryo stimulates cytokine release by uterine mast cell. Cocchiara R, et al. **Mol Hum Reprod** 1996 Oct;2(10):781–91

Endothelin-1 induces GM-CSF, IL-6 and IL-8 but not G-CSF release from a human bronchial epithelial cell line (BEAS-2B). Mullol J, et al. **Neuropeptides** 1996 Dec; 30(6):551–6

Arsenic induces overexpression of growth factors in human keratinocytes. Germolec DR, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):308–18

Bovine alpha s1-casein gene sequences direct high level expression of human granulocyte-macrophage colony-stimulating factor in the milk of transgenic mice. Uusi-Oukari M, et al. **Transgenic Res** 1997 Jan;6(1):75–84

THERAPEUTIC USE

Effect of granulocyte colony-stimulating factor on granulopoiesis of congenital neutropenic children. Benkö I, et al. **Acta Physiol Hung** 1996;84(3):261–2

Treatment of sulphasalazine-induced agranulocytosis with granulocyte macrophage-colony stimulating factor. Roddie P, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):711–2

Phase I trial of etoposide, carboplatin, and GM-CSF in extensive small-cell lung cancer: a Cancer and Leukemia Group B study (CALGB 8832). Luikart SD, et al. **Am J Clin Oncol** 1997 Feb;20(1):24–30

Phase I dose intensification study of 2-weekly epirubicin with GM-CSF in advanced cancer. Michael M, et al. **Am J Clin Oncol** 1997 Jun;20(3):259–62

Double-blind randomized placebo-controlled trial of the use of granulocyte-macrophage colony-stimulating factor in chronic leg ulcers. Marques da Costa R, et al. **Am J Surg** 1997 Mar;173(3):165–8

Granulocyte-macrophage colony-stimulating factor as infection prophylaxis in high-risk oncologic surgery. Meropol NJ, et al. **Am J Surg** 1996 Sep;172(3):299–302

Intensive chemotherapy for adult acute lymphoblastic leukaemia given with or without granulocyte-macrophage colony stimulating factor. Papamichael D, et al. **Ann Hematol** 1996 Dec;73(6):259–63

S-HAM induction chemotherapy with or without GM-CSF in patients with high-risk myelodysplastic syndromes. Verbeek W, et al. **Ann Hematol** 1997 May;74(5):205–8

Can molgramostim enhance the antitumor effects of cytotoxic drugs in patients with advanced sarcomas? Edmonson JH, et al. **Ann Oncol** 1997 Jul;8(7):637–41

Are hematopoietic colony-stimulating factors useful in association with chemotherapy in the treatment of HIV-related non-Hodgkin's lymphomas? Errante D, et al. **Ann Oncol** 1996 Mar;7(3):233–7

The effect of recombinant human granulocyte macrophage colony stimulating factor after chemotherapy of various tumors. Haus U, et al. **Anticancer Drugs** 1997 Jul; 8(6):597–602

A randomized phase I study of oral etoposide with or without granulocyte-macrophage colony-stimulating factor for the treatment of patients with advanced cancer. Weiss GR, et al. **Anticancer Drugs** 1996 Jun;7(4):402–9

Successful treatment of a generalized human papillomavirus infection with granulocyte-macrophage colony-stimulating factor and interferon gamma immunotherapy in a patient with a primary immunodeficiency and cyclic neutropenia. Gaspari AA, et al. **Arch Dermatol** 1997 Apr;133(4):491–6

Treatment of drug-induced agranulocytosis with colony stimulating factors (G-CSF or GM-CSF). Góra-Tybor J, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):255–8

Rapid healing of an indolent leg ulcer with topical rhGM-CSF [letter] Hui EP, et al. **Aust N Z J Med** 1996 Jun;26(3):420–1

Dysfunctional monocytes from a patient with disseminated Mycobacterium kansasii infection are activated in vitro and in vivo by GM-CSF. Bermudez LE, et al. **Biotherapy** 1994; 8(2):135–42

Activity of thymidine kinase and of polymerase alpha as well as activity and gene expression of deoxycytidine deaminase in leukemic blasts are correlated with clinical response in the setting of granulocyte-macrophage colony-stimulating factor-based priming before and during TAD-9 induction therapy in acute myeloid leukemia. Jahns-Streubel G, et al. **Blood** 1997 Sep 1;90(5):1968–76

Restoration of T and NK cell function in GM-CSF mobilized stem cell products from breast cancer patients by monocyte depletion. Ageitos AG, et al. **Bone Marrow Transplant** 1997 Jul;20(2):117–23

Administration of recombinant human granulocyte-macrophage colony-stimulating factor after autologous bone marrow transplantation in children with acute myelogenous leukemia: a note of caution. Calderwood S, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):87–91 (23 ref.)

GM-CSF accelerates neutrophil recovery after autologous hematopoietic stem cell transplantation. Greenberg P, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1057–64

Antifungal effects of yeast-derived rhu-GM-CSF in patients receiving high-dose chemotherapy given with or without autologous stem cell transplantation: a retrospective analysis. Peters BG, et al. **Bone Marrow Transplant** 1996 Jul;18(1):93–102 (60 ref.)

Use of continuous infusion granulocyte-macrophage colony-stimulating factor alone or followed by granulocyte colony-stimulating factor to enhance engraftment following high-dose chemotherapy and autologous bone marrow transplantation for lymphoid malignancies. Vose JM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):951–6

The role of granulocyte- and granulocyte-macrophage-colony-stimulating factors in the treatment of acute myeloid leukaemia. Johnson PR, et al. **Br J Haematol** 1997 Apr;97(1):1–8 (48 ref.)

Model analysis of the contrasting effects of GM-CSF and G-CSF treatment on peripheral blood neutrophils observed in three patients with childhood-onset cyclic neutropenia. Schmitz S, et al. **Br J Haematol** 1996 Dec;95(4):616–25

Re: Cytokines and agranulocytosis induced by clozapine [letter; comment] Malek-Ahmadi P. **Can J Psychiatry** 1996 Nov;41(9):603. Comment on: Can J Psychiatry 1996 Jun;41(5):280–4.

Economic analyses of phase III cooperative cancer group clinical trials: are they feasible? Bennett CL, et al. **Cancer Invest** 1997;15(3):227–36

Clinical needs for hematopoietic growth factors: old and new. Rusthoven JJ. **Cancer Invest** 1996;14(6):622–34 (163 ref.)

Successful treatment of autoimmune neutropenia with recombinant human granulocyte-colony stimulating factor (R-metHuG-CSF). Krishnan K, et al. **Clin Lab Haematol** 1997 Jun;19(2):105–9

Use of hematopoietic growth factors in the treatment of acute myelogenous leukemia. Ganser A, et al. **Curr Opin Hematol** 1997 May;4(3):191–5 (27 ref.)

Use of colony-stimulating factors in the treatment of neutropenia associated with collagen vascular disease. Starkebaum G. **Curr Opin Hematol** 1997 May;4(3):196–9 (46 ref.)

Clinical use of hematopoietic growth factors. Ganser A, et al. **Curr Opin Oncol** 1996 Jul;8(4):265–9 (28 ref.)

Granulocyte-macrophage colony-stimulating factor improves immunological parameters in patients with refractory solid tumours receiving second-line chemotherapy: correlation with clinical responses. Baxevanis CN, et al. **Eur J Cancer** 1997 Jul;33(8):1202–8

Use of granulocyte-macrophage colony-stimulating factor (GM-CSF) in combination with hydroxyurea as post-transplant therapy in chronic myelogenous leukemia patients autografted with unmanipulated hematopoietic cells. Carlo-Stella C, et al. **Haematologica** 1997 May-Jun; 82(3):291–6

Potential clinical applications of rhGM-CSF in acute myeloid leukemia based on its biologic activity and receptor interaction. Lanza F, et al. **Haematologica** 1997 Mar-Apr;82(2):239–45 (60 ref.)

Granulocytic colony-stimulating factors in the management of patients with acute myeloid leukemia. Dombret H. **Hematol Cell Ther** 1996 Jul;38(3):231–40 (92 ref.)

Clinical use of granulocyte-macrophage colony-stimulating factor and granulocyte colony-stimulating factor in neutropenia associated with malignancy. Lifton R, et al. **Hematol Oncol Clin North Am** 1996 Aug;10(4):825–39 (49 ref.)

Effects of granulocyte and granulocyte-macrophage colony-stimulating factors in a neutropenic murine model of trichosporonosis. Muranaka H, et al. **Infect Immun** 1997 Aug;65(8):3422–9

Recombinant human granulocyte colony-stimulating factor reverts vascular dysfunction. Squadrito F, et al. **Int J Microcirc Clin Exp** 1997 Jan-Feb;17(1):10–4

Efficacy and safety of granulocyte macrophage-colony stimulating factor (GM-CSF) on the frequency and severity of radiation mucositis in patients with head and neck carcinoma. Kannan V, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1005–10

Liposomal amphotericin B and recombinant human granulocyte-macrophage colony-stimulating factor (rHuGM-CSF) in the treatment of paediatric AIDS-related cryptococcosis. Manfredi R, et al. **Int J STD AIDS** 1997 Jun;8(6):406–8

Role of growth factors in hastening hematopoietic recovery following HLA matched sibling allogeneic bone marrow transplantation [published erratum appears in J Assoc Physicians India 1995 Oct;43(10):711] Parikh PM, et al. **J Assoc Physicians India** 1995 Jun;43(6):404–5

The use of recombinant human granulocyte colony-stimulating factor in combination with single or fractionated doses of ifosfamide and doxorubicin in patients with advanced soft tissue sarcoma. Erkisi M, et al. **J Chemother** 1996 Jun;8(3):224–8

Recombinant human granulocyte-macrophage colony-stimulating factor (rHuGM-CSF) in leukopenic patients with advanced HIV disease. Manfredi R, et al. **J Chemother** 1996 Jun;8(3):214–20

Use of hematopoietic colony-stimulating factors: the American Society of Clinical Oncology survey. The Health Services Research Committee of the American Society of Clinical Oncology. Bennett CL, et al. **J Clin Oncol** 1996 Sep;14(9):2511–20

Increasing 4'-epidoxorubicin and fixed ifosfamide doses plus granulocyte-macrophage colony-stimulating factor in advanced soft tissue sarcomas: a pilot study. Frustaci S, et al. **J Clin Oncol** 1997 Apr;15(4):1418–26

Randomized double-blind prospective trial to evaluate the effects of sargramostim versus placebo in a moderate-dose fluorouracil, doxorubicin, and cyclophosphamide adjuvant chemotherapy program for stage II and III breast cancer. Jones SE, et al. **J Clin Oncol** 1996 Nov;14(11):2976–83

Prospective randomized placebo-controlled study of granulocyte-macrophage colony-stimulating factor without stem-cell transplantation after high-dose melphalan in patients with multiple myeloma. Moreau P, et al. **J Clin Oncol** 1997 Feb;15(2):660–6

Granulocyte-macrophage colony-stimulating factor/interleukin-3 fusion protein versus granulocyte-macrophage colony-stimulating factor after autologous bone marrow transplantation for non-Hodgkin's lymphoma: results of a randomized double-blind trial. Vose JM, et al. **J Clin Oncol** 1997 Apr; 15(4):1617–23

Daily measurements of blood CD34+ cells after stem cell mobilization predict stem cell yield and posttransplant hematopoietic recovery. Remes K, et al. **J Hematother** 1997 Feb;6(1):13–9

Phase Ia/Ib trial of anti-GD2 chimeric monoclonal antibody 14.18 (ch14.18) and recombinant human granulocyte-macrophage colony-stimulating factor (rhGM-CSF) in metastatic melanoma. Murray JL, et al. **J Immunother Emphasis Tumor Immunol** 1996 May; 19(3):206–17

The effect of granulocyte-macrophage colony-stimulating factor (GM-CSF) on hepatitis B vaccination in haemodialysis patients. Hess G, et al. **J Viral Hepat** 1996 May;3(3):149–53

A preliminary experience with GM-CSF plus interferon in patients with HBV and HCV resistant to interferon therapy. Van Thiel DH, et al. **J Viral Hepat** 1997;4 Suppl 1:101–6

Effect of recombinant human granulocyte-macrophage colony-stimulating factor (GM-CSF) on chemotherapy-induced myelosuppression in patients with chronic lymphocytic leukemia: a crossover study. Itälä M, et al. **Leuk Lymphoma** 1997 May;25(5–6):503–8

Granulocyte-macrophage colony-stimulating factor dependent monocyte-mediated cytotoxicity post-autologous bone marrow transplantation. Nagler A, et al. **Leuk Res** 1996 Aug;20(8):637–43

Use of cytokines in the treatment of acute lymphoblastic leukemia. Nemunaitis J. **Leukemia** 1997 May;11 Suppl 4:S36–7 (19 ref.)

Application of myeloid growth factors in the treatment of acute myeloid leukemia. Terpstra W, et al. **Leukemia** 1997 Mar;11(3):315–27 (136 ref.)

Granulocyte-macrophage colony-stimulating factor as an adjuvant in tumor immunotherapy. Fagerberg J. **Med Oncol** 1996 Sep;13(3):155–60 (52 ref.)

Effect of granulocyte-macrophage colony-stimulating factor on chemotherapy-induced oral mucositis in non-neutropenic cancer patients. Ibrahim EM, et al. **Med Oncol** 1997 Mar;14(1):47–51

New clinical applications of granulocyte-macrophage colony-stimulating factor. Masucci G. **Med Oncol** 1996 Sep;13(3):149–54 (19 ref.)

Anti-tumoral effect of GM-CSF with or without cytokines and monoclonal antibodies in solid tumors. Ragnhammar P. **Med Oncol** 1996 Sep;13(3):167–76 (64 ref.)

Tolerability and efficacy of GM-CSF [Leucomax] in patients with small cell lung cancer treated with intensive chemotherapy. Walewski J, et al. **Med Oncol** 1996 Dec; 13(4):199–205

Granulocyte-macrophage colony-stimulating factor in association with high-dose chemotherapy (VETOPEC) for childhood solid tumors: a report from the Australia and New Zealand Children's Cancer Study Group. McCowage GB, et al. **Med Pediatr Oncol** 1997 Aug;29(2):108–14

Clinical responses and lymphoid infiltrates in metastatic melanoma following treatment with intralesional GM-CSF. Si Z, et al. **Melanoma Res** 1996 Jun;6(3):247–55

Low-dose compared with standard-dose m-BACOD chemotherapy for non-Hodgkin's lymphoma associated with human immunodeficiency virus infection. National Institute of Allergy and Infectious Diseases AIDS Clinical Trials Group. Kaplan LD, et al. **N Engl J Med** 1997 Jun 5;336(23):1641–8

Granulocyte-macrophage-colony-stimulating factor support in patients with acute non-lymphatic leukemia. Nel JS, et al. **Oncology** 1996 Nov-Dec;53(6):482–7

Colony-stimulating factors after the treatment of pediatric malignant diseases [editorial] Schuler D. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):iii–v

Recombinant human erythropoietin in combination with other hematopoietic cytokines in attenuating chemotherapy-induced multilineage myelosuppression: brief communication. Vadhan-Raj S. **Semin Hematol** 1996 Jan;33(1 Suppl 1):16–8 (14 ref.)

Hematopoietic growth factors in acute myeloid leukemia: supportive and priming effects. Büchner T, et al. **Semin Oncol** 1997 Feb;24(1):124–31 (37 ref.)

[Hematopoietic growth factors and anti-infective respiratory defenses] Gagnadoux F, et al. **Rev Mal Respir** 1997 Apr; 14(2):93–9 (40 ref.) (Eng. Abstr.) **(Fre)**

[Prevention and treatment of febrile neutropenia] Montemurro F, et al. **Tumori** 1997;83(2 Suppl):S15–9 (30 ref.) (Eng. Abstr.) **(Ita)**

[Clinical application of neutrophil hematopoietic factors] Sakurada K. **Nippon Naika Gakkai Zasshi** 1996 Jun 10; 85(6):844–9 (5 ref.) **(Jpn)**

[Clinical use of granulocyte colony stimulating-factors (GM-CSF and G-CSF] Borota R, et al. **Med Pregl** 1997 Mar-Apr;50(3–4):87–93 (37 ref.) (Eng. Abstr.) **(Scr)**

[Colony stimulating factors (G-CSF and GM-CSF): clinical update and usefulness in patients with HIV infection] Valencia Ortega ME, et al. **An Med Interna** 1996 Feb; 13(2):87–90 (30 ref.) **(Spa)**

[The dilemma of stimulating factors in the recovery from chemotherapeutic neutropenia (letter)] Borbollo Escoboza JR, et al. **Rev Invest Clin** 1996 Jul-Aug;48(4):328 **(Spa)**

TOXICITY

Recombinant toxins containing human granulocyte-macrophage colony-stimulating factor and either pseudomonas exotoxin or diphtheria toxin kill gastrointestinal cancer and leukemia cells. Kreitman RJ, et al. **Blood** 1997 Jul 1;90(1):252–9

Macrophage-colony forming cells (M-CFC), with different sensitivities to colony stimulating factors, from peritoneal exudates and tissues of chronically inflamed mice. Müller J, et al. **Inflamm Res** 1996 Dec;45(12):593–9

Delivery of cytokines by liposomes. III. Liposome-encapsulated GM-CSF and TNF-alpha show improved pharmacokinetics and biological activity and reduced toxicity in mice. Kedar E, et al. **J Immunother** 1997 May;20(3):180–93

GRANULOCYTE MACROPHAGE COLONY-STIMULATING FACTORS, RECOMBINANT

ADMINISTRATION & DOSAGE

Dose-intensity of a four-drug chemotherapy regimen with or without recombinant human granulocyte-macrophage colony-stimulating factor in extensive-stage small-cell lung cancer: a multicenter randomized phase III study. Pujol JL, et al. **J Clin Oncol** 1997 May;15(5):2082–9

[Use of human recombinant granulopoietic colony growth factor rhGM-CSF combined with interferon alpha for preparation in preparation of a patient with hairy-cell leukemia for splenectomy] Cedrych I, et al. **Pol Tyg Lek** 1996 May;51(19–22):291–2 **(Pol)**

ADVERSE EFFECTS

Safety of concomitant use of granulocyte colony-stimulating factor or granulocyte-macrophage colony-stimulating factor with cytotoxic chemotherapy agents. Petros WP, et al. **Curr Opin Hematol** 1997 May;4(3):213–6 (21 ref.)

CHEMISTRY

Selective biochemical modification of functional residues in recombinant human macrophage colony-stimulating factor beta (rhM-CSF beta): identification by mass spectrometry. Glocker MO, et al. **Biochemistry** 1996 Nov 19; 35(46):14625–33

Development and shelf-life determination of recombinant human granulocyte-–macrophage colony-stimulating factor (LEUKINE, GM-CSF). Geigert J, et al. **Pharm Biotechnol** 1996;9:329–42 (52 ref.)

GENETICS

Expression of biologically active human granulocyte-macrophage colony-stimulating factor in the silkworm (Bombyx mori). Shi X, et al. **Biotechnol Appl Biochem** 1996 Dec;24 (Pt 3):245–9

IMMUNOLOGY

Granulocyte-macrophage colony-stimulating factor elevates invariant chain expression in immature myelomonocytic cell lines. Klagge I, et al. **Immunology** 1997 May; 91(1):114–20

PHARMACOKINETICS

[Study on pharmacokinetics of human granulocyte-macrophage colony stimulating factor (hGM-CSF) in rats using a sensitive immunoassay (ELISA)] He XQ, et al. **Yao Hsueh Hsueh Pao** 1996; 31(6):406–10 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Lymphokine-activated killer (LAK) cell generation from peripheral blood stem cells by in vitro incubation with low-dose interleukin-2 plus granulocyte-macrophage colony-stimulating factor. Herrera C, et al. **Bone Marrow Transplant** 1997 Mar;19(6):545–51

Granulocyte-macrophage colony-stimulating factor down-regulates CD14 expression on monocytes. Kruger M, et al. **Immunology** 1996 Sep;89(1):89–95

Comparative study of the effects of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor on generation and mobilization of neutrophils in cyclophosphamide-treated neutropenic mice. Hattori K, et al. **In Vivo** 1996 May-Jun;10(3):319–27

Acceleration of hemopoietic recovery in dogs after extended-field partial-body irradiation by treatment with colony-stimulating factors: rhG-CSF and rhGM-CSF. Nothdurft W, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1145–54

Effects of granulocyte-macrophage colony-stimulating factor on the levels of VLDL and LDL receptor mRNAs in vivo. Ishibashi T, et al. **J Atheroscler Thromb** 1996; 2(2):76–80

Differential regulation of metalloelastase activity in murine peritoneal macrophages by granulocyte-macrophage colony-stimulating factor and macrophage colony-stimulating factor. Kumar R, et al. **J Immunol** 1996 Dec 1;157(11):5104–11

Differential effects of macrophage- and granulocyte-macrophage colony-stimulating factors on cytokine gene expression during rat alveolar macrophage differentiation into multinucleated giant cells (MGC): role for IL-6 in type 2 MGC formation. Lemaire I, et al. **J Immunol** 1996 Dec 1;157(11):5118–25

Critical role of Lyn kinase in inhibition of neutrophil apoptosis by granulocyte-macrophage colony-stimulating factor. Wei S, et al. **J Immunol** 1996 Dec 1;157(11):5155–62

Cytokine priming reduces dependence on TNF-R2 for TNF-alpha-mediated induction of macrophage nitric oxide generation. Miller AR, et al. **J Interferon Cytokine Res** 1996 Dec;16(12):1055–63

The modulation of plasma lipids and lipoproteins during bone marrow transplantation is unrelated to exogenously administered recombinant human granulocyte-monocyte colony-stimulating factor (rHu GM-CSF). Dann EJ, et al. **Med Oncol** 1996 Jun;13(2):81–6

The pharmacologic effects of recombinant, human colony-stimulating factors and their modulation by theophylline. Petros WP, et al. **Pharmacotherapy** 1996 Sep-Oct;16(5):742–8

Vaccination with syngeneic, lymphoma-derived immunoglobulin idiotype combined with granulocyte/macrophage colony-stimulating factor primes mice for a protective T-cell response. Kwak LW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10972–7

Evaluation of tolerability and antibody response after recombinant human granulocyte-macrophage colony-stimulating factor (rhGM-CSF) and a single dose of recombinant hepatitis B vaccine. Tarr PE, et al. **Vaccine** 1996 Sep;14(13):1199–204

Enhancement of leishmanicidal activity of human macrophages against Leishmania major and Leishmania donovani infection using recombinant human granulocyte macrophage colony stimulating factor. Al-Zamel F, et al. **Zentralbl Bakteriol** 1996 Sep;285(1):92–105

THERAPEUTIC USE

Treatment of drug-induced bone marrow suppression with recombinant human granulocyte/monocyte colony stimulating factor. Somogyi A, et al. **Adverse Drug React Toxicol Rev** 1996 Jun;15(2):119–24

Granulocyte-macrophage colony-stimulating factor accelerates hematopoietic recovery after autologous bone marrow or peripheral blood progenitor cell transplantation and high-dose chemotherapy for lymphoma. Colombat P, et al. **Bone Marrow Transplant** 1996 Aug;18(2):293–9

The administration of growth factors post-PBPC transplantation abrogates the dose-effect of CFU-GM on the rate of PMN recovery [letter] Pierelli L, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1189–90

Role of granulocyte colony-stimulating factor and granulocyte-macrophage colony-stimulating factor in the treatment of patients with HIV infection. Frumkin LR. **Curr Opin Hematol** 1997 May;4(3):200–6 (63 ref.)

Granulocyte-macrophage colony-stimulating factor as adjuvant therapy for factor as adjuvant therapy for interferon alpha treatment of chronic hepatitis C. Carreno V, et al. **Cytokine** 1996 Apr;8(4):318–22

Efficacy of granulocyte-macrophage colony-stimulating factor in acquired alveolar proteinosis [letter] Seymour JF, et al. **N Engl J Med** 1996 Dec 19;335(25):1924–5

Granulocyte-macrophage colony stimulating factor treatment of febrile neutropenia following remission induction chemotherapy for acute leukemia. Cucuianu A, et al. **Rom J Intern Med** 1996 Jan-Jun;34(1–2):97–103

Methimazole-induced severe aplastic anemia: unsuccessful treatment with recombinant human granulocyte-monocyte colony-stimulating factor. Escobar-Morreale HF, et al. **Thyroid** 1997 Feb;7(1):67–70

[Granulocyte-macrophage colony-stimulating factor (GM-CSF), preclinical and phase I clinical investigations] Shen B, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep; 76(9):654–7 (Eng. Abstr.) **(Chi)**

TOXICITY

Granulocyte-macrophage colony stimulating factor exacerbates collagen induced arthritis in mice. Campbell IK, et al. **Ann Rheum Dis** 1997 Jun;56(6):364–8

GRANULOCYTES

Granulocytes harvested following G-CSF-enhanced leukocyte recovery retain their functional capacity during in vitro culture for 72 hours. Murea S, et al. **J Hematother** 1996 Aug;5(4):351–7

Cloning of the novel human myeloid-cell-specific C/EBP-epsilon transcription factor. Chumakov AM, et al. **Mol Cell Biol** 1997 Mar;17(3):1375–86

Usefulness of granulocyte count measurement four hours after injection of granulocyte colony-stimulating factor for detecting recovery from antithyroid drug-induced granulocytopenia. Tajiri J, et al. **Thyroid** 1997 Aug; 7(4):575–8

[Urine test strips for cerebrospinal fluid diagnosis of bacterial meningitis] Heckmann JG, et al. **Med Klin** 1996 Dec 15; 91(12):766–8 (Eng. Abstr.) **(Ger)**

[Granulocyte recovery and early infection complications in oncologic pediatric patients treated with hematopoietic stem cell transplantation] Cañete Nieto A, et al. **An Esp Pediatr** 1997 May;46(5):428–32 (Eng. Abstr.) **(Spa)**

CHEMISTRY

A derivative of cationic antimicrobial protein attenuates lung injury by suppressing cell adhesion. Tasaka S, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):738–44

Assessment of disease activity in ulcerative colitis by faecal calprotectin, a novel granulocyte marker protein. Røseth AG, et al. **Digestion** 1997;58(2):176–80

Granulocytic protein p25 is a DNA-binding subunit of protein M(r) = 50,000: subcellular localization, cell and species specificity. Cabart P, et al. **Int J Biochem Cell Biol** 1996 Apr;28(4):479–89

Actin mRNA is not lowered in chronic myeloid leukemic granulocytes. Kant AM, et al. **Leuk Res** 1996 Sep; 20(9):739–41

The spatial structure of lipids in human leukocytes: studies by nonradiative energy transfer. Gularian SK, et al. **Membr Cell Biol** 1997;10(6):639–48

Zinc status and serum testosterone levels of healthy adults. Prasad AS, et al. **Nutrition** 1996 May;12(5):344–8

[Structural analysis of defense molecules found in large and small granules in hemocytes of horseshoe crab] Kawabata S. **Seikagaku** 1996 Sep;68(9):1523–36 (63 ref.) **(Jpn)**

[Diagnostic value of selective cytochemical reaction to zinc in peripheral blood granulocytes] Gol'dberg ED, et al. **Klin Lab Diagn** 1993 May-Jun;(3):25–7 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Automated cell differentiation of bronchoalveolar lavage samples with two-step image analysis. Mairinger T, et al. **Anal Quant Cytol Histol** 1996 Dec;18(6):453–60

CYTOLOGY

The interconversion of protein phosphatase 2A between PP2A1 and PP2A0 during retinoic acid-induced granulocytic differentiation and a modification on the catalytic subunit in S phase of HL-60 cells. Zhu T, et al. **Arch Biochem Biophys** 1997 Mar 1;339(1):210–7

Intranuclear translocation of phospholipase C beta2 during HL-60 myeloid differentiation. Bertagnolo V, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):831–7

Phospholipase A2 has a role in proliferation but not in differentiation of HL-60 cells. Liu Y, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):270–80

Granulocytic differentiation of normal hematopoietic precursor cells induced by transcription factor PU.1 correlates with negative regulation of the c-myb promoter. Bellon T, et al. **Blood** 1997 Sep 1;90(5):1828–39

Individual CD34+CD38lowCD19-CD10- progenitor cells from human cord blood generate B lymphocytes and granulocytes. Berardi AC, et al. **Blood** 1997 May 15; 89(10):3554–64

Fc gammaRII (CD32) is linked to apoptotic pathways in murine granulocyte precursors and mature eosinophils. de Andrés B, et al. **Blood** 1997 Aug 1;90(3):1267–74

Lineage-specific regulation of hematopoiesis by HOX-B8 (HOX-2.4): inhibition of granulocytic differentiation and potentiation of monocytic differentiation. Krishnaraju K, et al. **Blood** 1997 Sep 1;90(5):1840–9

Sorting of the specific granule protein, NGAL, during granulocytic maturation of HL-60 cells. Le Cabec V, et al. **Blood** 1997 Mar 15;89(6):2113–21

Interleukin-10 inhibits spontaneous colony-forming unit-granulocyte-macrophage growth from human peripheral blood mononuclear cells by suppression of endogenous granulocyte-macrophage colony-stimulating factor release. Oehler L, et al. **Blood** 1997 Feb 15; 89(4):1147–53

Granulocytic and monocytic differentiation of CD34hi cells

is associated with distinct changes in the expression of the PU.1-regulated molecules, CD64 and macrophage colony-stimulating factor receptor. Olweus J, et al. **Blood** 1996 Nov 15;88(10):3741-54

The expression of Bcl-x is downregulated during differentiation of human hematopoietic progenitor cells along the granulocyte but not the monocyte/macrophage lineage. Sanz C, et al. **Blood** 1997 May 1;89(9):3199-204

Dual action of retinoic acid on human embryonic/fetal hematopoiesis: blockade of primitive progenitor proliferation and shift from multipotent/erythroid/monocytic to granulocytic differentiation program. Tocci A, et al. **Blood** 1996 Oct 15;88(8):2878-88

Cytokines active on granulomonopoiesis: release and consumption by human marrow myeloid stromal cells. Sensebe L, et al. **Br J Haematol** 1997 Aug;98(2):274-82

Heterophil/lymphocyte ratio as a selection criterion for heat resistance in domestic fowls. al-Murrani WK, et al. **Br Poult Sci** 1997 May;38(2):159-63

Differentiation induced by the c-Mpl cytokine receptor is blocked by mutant Shc adaptor protein. Hill RJ, et al. **Cell Growth Differ** 1996 Sep;7(9):1125-34

Assessment of the contribution of the spleen to granulocytopoiesis and erythropoiesis of the mid-gestation human fetus. Calhoun DA, et al. **Early Hum Dev** 1996 Nov 21;46(3):217-27

Induction of granulocytic differentiation in a mouse model by benzene and hydroquinone. Hazel BA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1257-64

Differential ability of flt3-ligand, interleukin-11, and Steel factor to support the generation of B cell progenitors and myeloid cells from primitive murine fetal liver cells. Lemieux ME, et al. **Exp Hematol** 1997 Aug;25(9):951-7

Specific expression of heterotrimeric G proteins G12 and G16 during human myeloid differentiation. Tenailleau S, et al. **Exp Hematol** 1997 Aug;25(9):927-34

Granulocytic differentiation of HL-60 cells results in spontaneous apoptosis mediated by increased caspase expression. William R, et al. **FEBS Lett** 1997 Aug 4; 412(3):603-9

Failure of lymphopoiesis after adoptive transfer of NF-kappaB-deficient fetal liver cells. Horwitz BH, et al. **Immunity** 1997 Jun;6(6):765-72

Overexpression of HOXB3 in hematopoietic cells causes defective lymphoid development and progressive myeloproliferation. Sauvageau G, et al. **Immunity** 1997 Jan; 6(1):13-22

Preferential inhibitory effect of soluble factor(s) in human bone marrow stromal cells on proliferation of K562 leukemia cells versus normal myeloid progenitor cells. Aoyagi A, et al. **Int J Hematol** 1996 Apr;63(3):205-13

Morphology and histochemistry of a PAS-positive granular cell in the gills of the gilthead seabream, Sparus aurata L. Noya M, et al. **J Anat** 1996 Oct;189 (Pt 2):439-43

Expression of the activated (Y501-F501) hck tyrosine kinase in 32Dcl3 myeloid cells prolongs survival in the absence of IL-3 and blocks granulocytic differentiation in response to G-CSF. English BK. **J Leukoc Biol** 1996 Nov; 60(5):667-73

Cascade regulation of cytokine production in granulopoiesis. Sugimoto K, et al. **Leukemia** 1997 Apr;11 Suppl 3:464-7

Collagen gel culture of the human hematopoietic progenitors CFU-GM, CFU-E, and BFU-E. Allegraud A, et al. **Methods Mol Biol** 1997;75:221-30 (7 ref.)

Simultaneous analysis of peripheral blood granulocytes, lymphocytes, and monocytes adhering to human microvascular endothelial cells. Heckmann M, et al. **Microvasc Res** 1996 Sep;52(2):101-14

A novel transcript encoding an N-terminally truncated AML1/PEBP2 alphaB protein interferes with transactivation and blocks granulocytic differentiation of 32Dcl3 myeloid cells. Zhang YW, et al. **Mol Cell Biol** 1997 Jul;17(7):4133-45

Over-expression of p55Cdc inhibits granulocyte differentiation and accelerates apoptosis in myeloid cells. Kao CT, et al. **Oncogene** 1996 Sep 19;13(6):1221-9

Defective in vitro granulopoiesis in patients with anorexia nervosa. Vaisman N, et al. **Pediatr Res** 1996 Jul; 40(1):108-11

Tonic immobility reaction and heterophil to lymphocyte ratio in hens from three Spanish breeds laying pink eggshells. Campo JL, et al. **Poult Sci** 1996 Feb;75(2):155-9

Inhibition of granulocytic differentiation by mNotch1. Milner LA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13014-9

Evaluation of cytokines for expansion of the megakaryocyte and granulocyte lineages. LaLuppa JA, et al. **Stem Cells** 1997;15(3):198-206

Mpl ligand (MGDF) alone and in combination with stem cell factor (SCF) promotes proliferation and survival of human megakaryocyte, erythroid and granulocyte/macrophage progenitors. Rasko JE, et al. **Stem Cells** 1997;15(1):33-42

Analysis for recovery and loss of mononuclear cells and colony-forming units granulocyte-macrophage during ex vivo processing of autologous bone marrow. Schwella N, et al. **Vox Sang** 1996;70(3):132-8

[The change of the amount of receptors on the cell surface after differentiation of human granulocyte cell line HL-60] Ohse T. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Oct; 19(5):460-7 (Eng. Abstr.) **(Jpn)**

[Role of intercellular adhesion molecule (ICAM)-1 in the interaction between glomerular endothelial cells and granulocytes] Miwa N, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec;38(12):571-6 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Effects of topical nasal steroids on human respiratory mucosa and human granulocytes in vitro. Steinsvåg SK, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):868-75

Effect of granulocyte colony-stimulating factor on granulopoiesis of congenital neutropenic children. Benkö I, et al. **Acta Physiol Hung** 1996;84(3):261-2

Carbohydrate supplementation affects blood granulocyte and monocyte trafficking but not function after 2.5 h or running. Nieman DC, et al. **Am J Clin Nutr** 1997 Jul; 66(1):153-9

Dialysis-induced serum factors inhibit adherence of monocytes and granulocytes to adult human endothelial cells. Thylén P, et al. **Am J Kidney Dis** 1997 Jan;29(1):78-85

Selective protection of toxicity of 2',3'-dideoxypyrimidine nucleoside analogs by beta-D-uridine in human granulocyte-macrophage progenitor cells. Faraj A, et al. **Antiviral Res** 1996 Mar;29(2-3):261-7

Effects of benzene metabolite treatment on granulocytic differentiation and DNA adduct formation in HL-60 cells. Hedli CC, et al. **Arch Toxicol** 1996;70(3-4):135-44

Changes in platelet, granulocyte, and complement activation during cardiopulmonary bypass using heparin-coated equipment. Fukutomi M, et al. **Artif Organs** 1996 Jul; 20(7):767-76

G-CSF stimulated donor granulocyte collections for prophylaxis and therapy of neutropenic sepsis. Grigg A, et al. **Aust N Z J Med** 1996 Dec;26(6):813-8

Inhibition of granulocyte-derived proteases reduces the increase in plasma endothelin associated with myocardial ischemia in the pig. Tønnessen T, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):289-95

Granulocyte-colony stimulating factor (filgrastim) accelerates granulocyte recovery after intensive postremission chemotherapy for acute myeloid leukemia with aziridinyl benzoquinone and mitoxantrone: Cancer and Leukemia Group B study 9022. Moore JO, et al. **Blood** 1997 Feb 1;89(3):780-8

Intracellular signalling by binding sites for the antipsoriatic agent monomethylfumarate on human granulocytes. Nibbering PH, et al. **Br J Dermatol** 1997 Jul;137(1):65-75

In vitro toxicity induced by deoxynivalenol (DON) on human and rat granulomonocytic progenitors. Lautraite S, et al. **Cell Biol Toxicol** 1997 Mar;13(3):175-83

Polyphenols in chocolate, which have antioxidant activity, modulate immune functions in humans in vitro. Sanbongi C, et al. **Cell Immunol** 1997 May 1;177(2):129-36

Level of myelopoiesis in the bone marrow is influenced by intestinal flora. Tada T, et al. **Cell Immunol** 1996 Oct 10; 173(1):155-61

Simultaneous activation of granulocytes and extrathymic T cells in number and function by excessive administration of nonsteroidal anti-inflammatory drugs. Yamamura S, et al. **Cell Immunol** 1996 Nov 1;173(2):303-11

Influence of Ukrain on immunological blood parameters in vitro and in vivo. Nowicky JW, et al. **Drugs Exp Clin Res** 1996;22(3-5):163-5

Induction of granulocytic differentiation in a mouse model by benzene and hydroquinone. Hazel BA, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1257-64

Hydroquinone stimulates granulocyte-macrophage progenitor cells in vitro and in vivo. Henschler R, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1271-4

The effects of met-enkephaline, leu-enkephaline and tuftsine on guinea pig peritoneal granulocyte functions in vitro. Godlewski A, et al. **Folia Morphol (Warsz)** 1996;55(4):251-2

The effects of 4-chloro-ortho-toluidine (fast red TB) acute intoxication on rats and guinea pigs. Part III: The effect in vitro on viability of rat thymic and splenic lymphocytes, and on guinea pig granulocyte adherence, chemotaxis and phagocytosis. Godlewski A, et al. **Folia Morphol (Warsz)** 1996;55(4):259-60

Media composition modulates excitatory amino acid-induced death of rat cerebellar granule cells. Wood AM, et al. **Hum Exp Toxicol** 1997 Jul;16(7):350-5

Cell surface-bound urokinase-type plasminogen activator facilitates infiltration of freshly isolated granulocytes into fibrin matrix. Herijgers N, et al. **Immunobiology** 1995 Nov; 194(4-5):363-75

Effect in vitro of gamma interferon and interleukin-10 on generation of oxidizing species by human granulocytes. Chaves MM, et al. **Inflamm Res** 1996 Jul;45(7):313-5

Surfactant prevents quartz induced down-regulation of complement receptor 1 in human granulocytes. Zetterberg G, et al. **Inflammation** 1997 Feb;21(1):83-92

Role of hemolytic and nonhemolytic phospholipase C from Pseudomonas aeruginosa for inflammatory mediator release from human granulocytes. König B, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):115-24

Anti-cancer agent OK432 induces manganese superoxide dismutase in human granulocytes. Akashi M, et al. **Int J Cancer** 1996 Nov 4;68(3):384-90

Evidence for morphine downregulating immunocytes during cardiopulmonary bypass in a porcine model. Bilfinger TV, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S39-46

Hyperstimulation of leukocytes by plasma from cardiopulmonary bypass patients is diminished by alpha-MSH pretreatment. Bilfinger TV, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S47-53

Potential effects of amoxycillin/clavulanic acid and ticarcillin/clavulanic acid on human granulocyte activity: a comparative study. Cuffini AM, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1013-22

The effect of artemisinin on granulocyte function assessed by flow cytometry. Wenisch C, et al. **J Antimicrob Chemother** 1997 Jan;39(1):99-101

Surface adhesion molecule expression on human blood cells induced by vascular graft materials in vitro. Swartbol P, et al. **J Biomed Mater Res** 1996 Dec;32(4):669-76

Levels of DNA strand breaks and superoxide in phorbol ester-treated human granulocytes. Birnboim HC, et al. **J Cell Biochem** 1997 Aug 1;66(2):219-28

Secondary cytokines interact in sequence with interleukin-1alpha (IL-1alpha) with or without macrophage colony-stimulating factor (M-CSF) to further accelerate granulopoietic recovery in myelosuppressed animals. Kovacs CJ, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):453-60

Endotoxin-inducible granulocyte-mediated hepatocytotoxicity requires adhesion and serine protease release. Sauer A, et al. **J Leukoc Biol** 1996 Nov; 60(5):633-43

Leukocyte alkaline phosphatase activity and peripheral changes of granulocyte following administration of granulocyte colony-stimulating factor. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79(12):801-7

Effect of a single dose of ethanol on granulopoiesis in female rats: relationship to phase of estrous cycle. Stojanović N, et al. **J Stud Alcohol** 1996 Jul;57(4):344-8

In vitro activity on myeloid progenitors of a combination of 2-chloro-2'-deoxyadenosine and interferon alpha: the effects of IL-1 and GM-CSF. Ballarino P, et al. **Leuk Res** 1996 Sep;20(9):777-80

Induction of granulocytic differentiation in myeloblasts by hydroquinone, a metabolite of benzene, involves the leukotriene D4 receptor. Hazel BA, et al. **Recept Signal Transduct** 1996;6(1):1-12

[Stimulating and protective effect of recombinant interleukin-1-beta (beta-leukin) on leukopoiesis in chemotherapy of malignant tumors] Gershanovich ML, et al. **Vopr Onkol** 1996;42(6):13-8 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Use of myeloperoxidase mRNA as a marker for myeloid lineage in acute leukemias. Crisan D, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):828-34

Up-regulation of Syk activity during HL60 cell differentiation into granulocyte but not into monocyte/macrophage-lineage. Qin S, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):697-701

Expression and intracellular localization of the human N-acetylmuramyl-L-alanine amidase, a bacterial cell wall-degrading enzyme. Hoijer MA, et al. **Blood** 1997 Aug 1;90(3):1246-54

BMX tyrosine kinase gene is expressed in granulocytes and myeloid leukaemias. Kaukonen J, et al. **Br J Haematol** 1996 Sep;94(3):455-60

Granulocytic differentiation of HL-60 cells results in spontaneous apoptosis mediated by increased caspase expression. William R, et al. **FEBS Lett** 1997 Aug 4; 412(3):603-9

Developmental regulation of alpha 1,3-fucosyltransferase expression in CD34 positive progenitors and maturing myeloid cells isolated from normal human bone marrow. Le Marer N, et al. **Glycobiology** 1997 Apr;7(3):357-65

Monoclonal antibody WGM1 directed against proteinase 3: an immunohistochemical marker for naphthol ASD chloroacetate. Braun MG, et al. **Hematol Oncol** 1996 Jun; 14(2):83-90

Anti-cancer agent OK432 induces manganese superoxide dismutase in human granulocytes. Akashi M, et al. **Int J Cancer** 1996 Nov 4;68(3):384-90

Leukocyte alkaline phosphatase a specific marker for the post-mitotic neutrophilic granulocyte: regulation in acute promyelocytic leukemia. Garattini E, et al. **Leuk Lymphoma** 1996 Nov;23(5-6):493-503 (73 ref.)

Activation of human granulocyte type 1-prophospholipase A2. Rae D, et al. **Scand J Gastroenterol Suppl** 1996;219:24-7 (20 ref.)

Circulating cytokines and granulocyte-derived enzymes during complex heart surgery. A clinical study with special reference to heparin-coating of cardiopulmonary bypass circuits. Borowiec JW, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):167-74

[Diagnostic value of granulocyte elastase determination in cord blood of newborn infants at risk for maternofetal infection] Sampériz S, et al. **Arch Pediatr** 1997 May; 4(5):406-10 (Eng. Abstr.) **(Fre)**

[The biochemical and clinical aspects of the participation of granulocytes and their proteinases in a vascular wall lesion] Ogloblina OG, et al. **Ter Arkh** 1996;68(5):78-80 (Eng. Abstr.) **(Rus)**

[Comparative characterization of altered activity of lysosomal cysteine proteinases in various leukocytic fractions inpatients with chronic lymphocytic leukemia] Stroev EA, et al. **Vestn Ross Akad Med Nauk** 1996; (10):33-6 (Eng. Abstr.) **(Rus)**

GRANULOCYTES

IMMUNOLOGY

CD 45/67 immunobead preparation of human semen activates granulocytes. Ochsendorf FR, et al. **Andrologia** 1997 Jul-Aug;29(4):193-9

Diagnosing sternal wound infections with 99mTc-labeled monoclonal granulocyte antibody scintigraphy. Bitkover CY, et al. **Ann Thorac Surg** 1996 Nov;62(5):1412-6; discussion 1416-7

Complexed plasma elastase as an in vivo marker for leukocyte activation in antineutrophil cytoplasmic antibody-associated vasculitis. Haubitz M, et al. **Arthritis Rheum** 1997 Sep;40(9):1680-4

Schistosoma mansoni excretory circulating cathodic antigen shares Lewis-x epitopes with a human granulocyte surface antigen and evokes host antibodies mediating complement-dependent lysis of granulocytes. van Dam GJ, et al. **Blood** 1996 Dec 1;88(11):4246-51

Preclinical studies with Fc(gamma)R bispecific antibodies and granulocyte colony-stimulating factor-primed neutrophils as effector cells against HER-2/neu overexpressing breast cancer. Stockmeyer B, et al. **Cancer Res** 1997 Feb 15;57(4):696-701

Granulocyte proteins in serum in childhood asthma: relation to spirometry and therapy. Scher H, et al. **Clin Exp Allergy** 1996 Oct;26(10):1131-41

Relationship between granulocyte activation, pulmonary granulocyte kinetics and alveolar permeability in extrapulmonary inflammatory disease. Ussov WY, et al. **Clin Sci (Colch)** 1996 Sep;91(3):329-35

Granulocyte function in women with diabetes and asymptomatic bacteriuria. Balasoiu D, et al. **Diabetes Care** 1997 Mar;20(3):392-5

Influence of Ukrain on immunological blood parameters in vitro and in vivo. Nowicky JW, et al. **Drugs Exp Clin Res** 1996;22(3-5):163-5

Duraflo II coating of cardiopulmonary bypass circuits reduces complement activation, but does not affect the release of granulocyte enzymes : a European multicentre study. Fosse E, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):320-7

Chronic complicated osteomyelitis of the appendicular skeleton: diagnosis with technetium-99m labelled monoclonal antigranulocyte antibody-immunoscintigraphy. Kaim A, et al. **Eur J Nucl Med** 1997 Jul;24(7):732-8

A monoclonal antibody to ruminant fibrinogen produced through immunization with ovine peripheral blood leukocytes. Pintado CO, et al. **Hybridoma** 1996 Feb; 15(1):87-90

Surgical anticipatory stress manifests itself in immunocyte desensitization: evidence for autoimmunoregulatory involvement. Fricchione G, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S65-73

Prolonged granulocyte activation, as well as hypoxanthine and free radical production after open heart surgery in children. Pesonen EJ, et al. **Intensive Care Med** 1996 May; 22(5):500-6

Expression of high-affinity IgE receptors (Fc epsilon RI) on peripheral blood basophils, monocytes, and eosinophils in atopic and nonatopic subjects: relationship to total serum IgE concentrations. Sihra BS, et al. **J Allergy Clin Immunol** 1997 May;99(5):699-706

Cloning and characterization of the human granulocyte chemotactic protein-2 gene. Rovai LE, et al. **J Immunol** 1997 Jun 1;158(11):5257-66

Antigranulocyte antibody uptake in bone marrow is age-dependent [letter; comment] Ivančević V, et al. **J Nucl Med** 1997 Jul;38(7):1172. Comment on: J Nucl Med 1996 Jun;37(6):978-82.

Heterogeneity in the expression of Fc gammaRIII in morphologically mature granulocytes from patients with chronic myeloid leukemia. Kant AM, et al. **Leuk Res** 1997 Mar;21(3):225-34

Leukocyte CD14 and CD45 expression during hemodialysis: polysulfone versus cuprophane. Dhondt AW, et al. **Nephron** 1996;74(2):342-8

Immunization with meningococcal membrane-bound lipooligosaccharide accelerates granulocyte recovery and enhances lymphocyte proliferation in myelosuppressed mice. Quakyi EK, et al. **Pathobiology** 1997;65(1):26-38

Transgenic expression of CD95 ligand on islet beta cells induces a granulocytic infiltration but does not confer immune privilege upon islet allografts [see comments] Allison J, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15; 94(8):3943-7. Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(12):5986-90.

CD44 expression by leucocytes in rheumatoid arthritis and modulation by specific antibody: implications for lymphocyte adhesion to endothelial cells and synoviocytes in vitro. Brennan FR, et al. **Scand J Immunol** 1997 Feb; 45(2):213-20

Granulocyte clearance by apoptosis in the resolution of inflammation. Savill J, et al. **Semin Cell Biol** 1995 Dec; 6(6):385-93 (72 ref.)

Challenges in the determination of clinically significant granulocyte antibodies and antigens. Bux J. **Transfus Med Rev** 1996 Jul;10(3):222-32 (58 ref.)

Report on the second international granulocyte serology workshop. Bux J, et al. **Transfusion** 1997 Sep;37(9):977-83

Granulocyte immunology: is there a need to know? Stroncek DF. **Transfusion** 1997 Sep;37(9):886-8 (23 ref.)

Alloimmunization after granulocyte transfusions. Stroncek DF, et al. **Transfusion** 1996 Nov-Dec;36(11-12):1009-15

Hepatocyte transplantation-granulocytes recognize surface of isolated autologous hepatocytes as non-self and destroy them. Olszewski WL, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1113-5

Biochemical analysis of preliminary clusters in the non-lineage panel. Naessens J, et al. **Vet Immunol Immunopathol** 1996 Aug;52(4):347-56

[Effects of Staphylococcus aureus protein A on the production of primary host defense factors against S. aureus infection] Endo N, et al. **Kansenshogaku Zasshi** 1997 Jan; 71(1):39-45 (Eng. Abstr.) **(Jpn)**

[Usefulness of the microcolorimetric method of XTT reduction for evaluation of intracellular killing of pathogens] Burow A, et al. **Med Dosw Mikrobiol** 1995; 47(3-4):203-212 (Eng. Abstr.) **(Pol)**

METABOLISM

Granulocyte activation markers in induced sputum: comparison between chronic obstructive pulmonary disease, asthma, and normal subjects. Keatings VM, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):449-53

Preferential binding of heparin to granulocytes of various species. Harenberg J, et al. **Am J Vet Res** 1996 Jul; 57(7):1016-20

CD 45/67 immunobead preparation of human semen activates granulocytes. Ochsendorf FR, et al. **Andrologia** 1997 Jul-Aug;29(4):193-9

Human BST-1 expressed on myeloid cells functions as a receptor molecule. Okuyama Y, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):838-45

Characterization of synthetic human granulocyte chemotactic protein 2: usage of chemokine receptors CXCR1 and CXCR2 and in vivo inflammatory properties. Wuyts A, et al. **Biochemistry** 1997 Mar 4;36(9):2716-23

Tyrosine phosphorylation of 100-115 kDa proteins by phosphatidic acid generated via phospholipase D activation in HL60 granulocytes. Ohguchi K, et al. **Biochim Biophys Acta** 1997 Jun 23;1346(3):301-4

Sorting of the specific granule protein, NGAL, during granulocytic maturation of HL-60 cells. Le Cabec V, et al. **Blood** 1997 Mar 15;89(6):2113-21

p15s (15-kD antimicrobial proteins) are stored in the secondary granules of Rabbit granulocytes: implications for antibacterial synergy with the bactericidal/permeability-increasing protein in inflammatory fluids. Zarember K, et al. **Blood** 1997 Jan 15;89(2):672-9

Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly-N-acetyllactosaminyl chains from human granulocytes. Müthing J. **Carbohydr Res** 1996 Sep 2; 290(2):217-24

Detection of DNA adducts of acetaldehyde in peripheral white blood cells of alcohol abusers. Fang JL, et al. **Carcinogenesis** 1997 Apr;18(4):627-32

Proliferation kinetics and PCNA expression of HL-60 cells following ionizing irradiation and granulocytic differentiation. Sendler A, et al. **Cell Prolif** 1993 Nov; 26(6):531-43

Structural features associated with reactive metabolite formation in clozapine analogues. Uetrecht J, et al. **Chem Biol Interact** 1997 May 2;104(2-3):117-29

Flow cytometric detection and quantitative analysis of the GM-CSF receptor in human granulocytes and comparison with the radioligand binding assay. Stacchini A, et al. **Cytometry** 1996 Aug 1;24(4):374-81

Signal transduction during exocytosis in Limulus polyphemus granulocytes. Solon E, et al. **Dev Comp Immunol** 1996 Sep-Oct;20(5):307-21

Phagocytic activity and oxidative burst of granulocytes in persons with myeloperoxidase deficiency. Gerber CE, et al. **Eur J Clin Chem Clin Biochem** 1996 Nov;34(11):901-8

Labelling of leucocytes with technetium-99m exametazime causes in vitro upregulation of granulocyte CD11b without correlation to tissue uptake in vivo. Almer S, et al. **Eur J Nucl Med** 1996 Jun;23(6):669-74

Endovascular abdominal aortic aneurysm repair induces significant alterations in surface adhesion molecule expression on donor white blood cells exposed to patient plasma. Swartbol P, et al. **Eur J Vasc Endovasc Surg** 1997 Jul;14(1):48-59

Increased bronchoalveolar granulocytes and granulocyte/macrophage colony-stimulating factor during exacerbations of chronic bronchitis. Balbi B, et al. **Eur Respir J** 1997 Apr;10(4):846-50

Long-term persistence of canine hematopoietic cells genetically marked by retrovirus vectors. Kiem HP, et al. **Hum Gene Ther** 1996 Jan;7(1):89-96

Granulocyte signal transduction and priming: cause without effect? Coffer PJ, et al. **Immunol Lett** 1997 Jun 1; 57(1-3):27-31 (58 ref.)

Spontaneous nitroblue-tetrazolium (NBT) reduction related to granulocyte priming and activation. Wikström T, et al. **Inflammation** 1996 Jun;20(3):281-92

Levels of DNA strand breaks and superoxide in phorbol ester-treated human granulocytes. Birnboim HC, et al. **J Cell Biochem** 1997 Aug 1;66(2):219-28

Infection of human vascular endothelial cells with Staphylococcus aureus induces hyperadhesiveness for human monocytes and granulocytes. Beekhuizen H, et al. **J Immunol** 1997 Jan 15;158(2):774-82

Down-regulation of surface receptors for TNF and IL-1 on circulating monocytes and granulocytes during human endotoxemia: effect of neutralization of endotoxin-induced TNF activity by infusion of a recombinant dimeric TNF receptor. van der Poll T, et al. **J Immunol** 1997 Feb 1; 158(3):1490-7

Comparative analysis of flow cytometric methods for apoptosis quantitation in murine thymocytes and human peripheral lymphocytes from controls and HIV-infected persons. Evidence for interference by granulocytes and erythrocytes. Lecoeur H, et al. **J Immunol Methods** 1996 Oct 30;198(1):87-99

Biotinylation of proteins via amino groups can induce binding to U937 cells, HL-60 cells, monocytes and granulocytes. Storm D, et al. **J Immunol Methods** 1996 Nov 29; 199(1):87-99

Changes of expression of complement 3bi receptors on granulocytes after physical exercise in rats. Hashimoto Y, et al. **J Sports Med Phys Fitness** 1996 Dec;36(4):275-80

Effects of ultrapure and non-sterile dialysate on the inflammatory response during in vitro hemodialysis. Tielemans C, et al. **Kidney Int** 1996 Jan;49(1):236-43

Up-regulation of elastase in acute wounds of healthy aged humans and chronic venous leg ulcers are associated with matrix degradation. Herrick S, et al. **Lab Invest** 1997 Sep; 77(3):281-8

The changes of Mac-1 and L-selectin expression on granulocytes and soluble L-selectin level during hemodialysis. Kawabata K, et al. **Nephron** 1996;73(4):573-9

Hemodialysis-induced upregulation of granulocyte adhesion molecules CD11b/CD18 is independent from 5-lipoxygenase activity. Sellmayer A, et al. **Nephron** 1997; 76(4):418-24

Over-expression of p55Cdc inhibits granulocyte differentiation and accelerates apoptosis in myeloid cells. Kao CT, et al. **Oncogene** 1996 Sep 19;13(6):1221-9

Induction of granulocytic differentiation in myeloblasts by hydroquinone, a metabolite of benzene, involves the leukotriene D4 receptor. Hazel BA, et al. **Recept Signal Transduct** 1996;6(1):1-12

Comparison of chemotaxis and superoxide generation of indium-111-oxine- and technetium-99m-HMPAO-labelled granulocytes. Stoeckli TC, et al. **Scand J Clin Lab Invest** 1996 Jul;56(4):305-9

The effect of activation of granulocytes on enzyme release and hydrogen peroxide and superoxide production in buffaloes. Singh VK, et al. **Vet Res Commun** 1997 May; 21(4):241-7

[Effect of chrysotile-asbestos and zeolites dust on generations of reactive oxygen species by alveolar macrophages and granulocytes] Gusev VA, et al. **Vopr Med Khim** 1997 May-Jun;43(3):148-52 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Human granulocytic ehrlichiosis: a case series from a medical center in New York State [see comments] Aguero-Rosenfeld ME, et al. **Ann Intern Med** 1996 Dec 1;125(11):904-8. Comment in: Ann Intern Med 1997 Jul 1;127(1):89-90.

Human monocytic and granulocytic ehrlichioses. Discovery and diagnosis of emerging tick-borne infections and the critical role of the pathologist. Walker DH, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):785-91 (50 ref.)

Transmission of the agent of human granulocytic ehrlichiosis by host-seeking Ixodus scapularis (Acari:Ixodidae) in southern New York state. Des Vignes F, et al. **J Med Entomol** 1997 Jul;34(4):379-82

Adherence of Borrelia burgdorferi to granulocytes of different animal species. Grassmann B, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):501-8

PARASITOLOGY

Experimental infection of murine splenic lymphocytes and granulocytes with Toxoplasma gondii RH tachyzoites. Chai JY, et al. **Korean J Parasitol** 1997 Jun;35(2):79-85

PATHOLOGY

Granulocytic sarcoma presenting as a retroperitoneal lymph node mass. A case report with diagnosis by fine needle aspiration biopsy and flow cytometry. Mockli G. **Acta Cytol** 1997 Sep-Oct;41(5):1525-7

Colony counting is a major source of variation in CFU-GM results between centres. Lumley MA, et al. **Br J Haematol** 1997 May;97(2):481-4

Granulocytes with segmented nucleus retain normal chromosomes 17 in Philadelphia chromosome-positive chronic myeloid leukemia with i(17q) and pseudo-Pelger anomaly. A case report studied with fluorescence in situ hybridization. Fugazza G, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):166-70

Granulocytic sarcoma in acute non-lymphocytic leukemia. Prajapati NC, et al. **Indian Pediatr** 1996 May;33(5):392-4

Schistosoma mansoni infection in mice augments the capacity for interleukin 3 (IL-3) and IL-9 production and concurrently enlarges progenitor pools for mast cells and granulocytes-macrophages. Khalil RM, et al. **Infect Immun** 1996 Dec;64(12):4960-6

Propagation of granulocytic Ehrlichia spp. from human and equine sources in HL-60 cells induced to differentiate into functional granulocytes. Heimer R, et al. **J Clin Microbiol** 1997 Apr;35(4):923-7

Activation of phosphatidylinositol 3'-kinase by insulin-like growth factor-I rescues promyeloid cells from apoptosis and permits their differentiation into granulocytes. Liu Q, et al. **J Immunol** 1997 Jul 15;159(2):829–37

[May–Heggelin anomaly and pregnancy. A case report, review of the literature] Tordjeman N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(8):836–40 (16 ref.) (Eng. Abstr.) **(Fre)**

[Allergic reactions of skin and mucous membranes. New findings about etiology, pathology and therapy] **Hautarzt** 1994 May;45(5 Suppl):1–19 **(Ger)**

[Value of individual evaluation of the responsiveness of the granulocyte system in an experiment and in clinical practice] Sidel'nikova VI, et al. **Patol Fiziol Eksp Ter** 1996 Oct–Dec;(4):6–9 (40 ref.) (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

The mucosa of the middle ear and Eustachian tube in the young rat: number of granulocytes, macrophages, dendritic cells, NK cells and T and B lymphocytes in healthy animals and during otitis media. Jecker P, et al. **Acta Otolaryngol (Stockh)** 1996 May;116(3):443–50

Granulocyte phagocytic function is impaired during cardiopulmonary bypass. Hamano K, et al. **Ann Thorac Surg** 1996 Dec;62(6):1820–4

Antithrombin III, leukocyte activation, and low systemic heparinization [letter; comment] Ranucci M. **Ann Thorac Surg** 1997 Apr;63(4):1211–2. Comment on: Ann Thorac Surg 1995 Dec;60(6):1755–61.

Dual action of cAMP-dependent protein kinase on granulocyte movement. Ydrenius L, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):445–50

A subpopulation analysis of f-MLP stimulated granulocytes migrating in filters. Ebrahimzadeh PR, et al. **Biorheology** 1996 May–Jun;33(3):231–50

Differential modulation of IL-1-induced endothelial adhesion molecules and transendothelial migration of granulocytes by G-CSF. Eissner G, et al. **Br J Haematol** 1997 Jun;97(4):726–33

Constitutive expression of full-length c-Myb transforms avian cells characteristic of both the monocytic and granulocytic lineages. Fu SL, et al. **Cell Growth Differ** 1997 Jan;8(1):35–45

The molecular control of granulocytes and macrophages. Metcalf D. **Ciba Found Symp** 1997;204:40–50; discussion 50–6 (33 ref.)

Granulocyte chemiluminescence response to serum opsonized zymosan particles ex vivo during long-term strenuous exercise, energy and sleep deprivation in humans. Wiik P, et al. **Eur J Appl Physiol** 1996;73(3–4):251–8

Complete heparin-coated cardiopulmonary bypass and low heparin dose reduce complement and granulocyte activation. Ovrum E, et al. **Eur J Cardiothorac Surg** 1996; 10(1):54–60

Cloning of novel immunoglobulin superfamily receptors expressed on human myeloid and lymphoid cells: structural evidence for new stimulatory and inhibitory pathways. Samaridis J, et al. **Eur J Immunol** 1997 Mar;27(3):660–5

Potential effects of amoxycillin/clavulanic acid and ticarcillin/clavulanic acid on human granulocyte activity: a comparative study. Cuffini AM, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1013–22

Interleukin-10 stimulation of endogenous nitric oxide release from human saphenous veins diminishes immunocyte adherence. Stefano GB, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):90–5

Phagocytosis and burst activity of granulocytes and monocytes after stem cell transplantation. Miyagawa B, et al. **J Lab Clin Med** 1997 Jun;129(6):634–7

Involvement of leukotrienes, TNF-alpha, and the LFA-1/ICAM-1 interaction in substance P-induced granulocyte infiltration. Saban MR, et al. **J Leukoc Biol** 1997 Apr;61(4):445–51

Restraint stress-induced elevation of endogenous glucocorticoid suppresses migration of granulocytes and macrophages to an inflammatory locus. Mizobe K, et al. **J Neuroimmunol** 1997 Mar;73(1–2):81–9

Factors responsible for peritoneal granulocyte apoptosis during sepsis. Ayala A, et al. **J Surg Res** 1997 Apr; 69(1):67–75

Granulocyte dysplasia and dysfunction, and CD11/CD18 defects in myelodysplastic syndromes. Mazzone A, et al. **Leuk Lymphoma** 1996 Oct;23(3–4):267–75 (71 ref.)

Chronic myeloid leukemic granulocytes exhibit reduced and altered binding to P-selectin: modification in the CD15 antigens and sialylation. Vijayan KV, et al. **Leuk Res** 1997 Jan;21(1):59–65

Mechanisms of intra-dialyser granulocyte activation: a sequential dialyser elution study. Grooteman MP, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):492–9

Monocyte and granulocyte CD11b/CD18, CD62L expression and sICAM-1 concentration in the interdialytic period. Thylén P, et al. **Nephron** 1996;74(2):275–82

Phenotypic analysis of retinal leukocyte infiltration during combined cyclosporin A and nasal antigen administration of retinal antigens: delay and inhibition of macrophage and granulocyte infiltration. Dick AD, et al. **Ocul Immunol Inflamm** 1997 Jun;5(2):129–40

Regulation of the myeloperoxidase enhancer binding proteins Pu1, C-EBP alpha, -beta, and -delta during granulocyte-lineage specification. Ford AM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10838–43

Inhibition of granulocytic differentiation by mNotch1. Milner LA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13014–9

CCAAT/enhancer binding protein epsilon is preferentially up-regulated during granulocytic differentiation and its functional versatility is determined by alternative use of promoters and differential splicing. Yamanaka R, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6462–7

Increased granulocyte aggregation in vitro in diabetes mellitus. Elhadd TA, et al. **QJM** 1997 Jul;90(7):461–4

Induction of granulocytic differentiation in myeloblasts by 17-beta-estradiol involves the leukotriene D4 receptor. Dietsch V, et al. **Recept Signal Transduct** 1996;6(2):63–75

Complement-induced retinal arteriolar occlusions in the cat. Lai JC, et al. **Retina** 1997;17(3):239–46

Effects on complement, granulocytes and platelets of a leukocyte-depletion filter during in vitro extracorporeal circulation. Baksaas ST, et al. **Scand Cardiovasc J** 1997; 31(2):73–7

Molecular and cellular interactions mediating granulocyte accumulation in vivo. Nourshargh S, et al. **Semin Cell Biol** 1995 Dec;6(6):317–26 (107 ref.)

[Effect of selenium and vitamin E on white cells, serum concentration of several minerals and trace elements as well as immunologic parameters in calves] Bednarek D, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Nov;103(11):457–9 (Eng. Abstr.) **(Ger)**

[The role of polymorphonuclear granulocytes in biomorphology of thrombus in myocardial infarction] Wysocka J. **Przegl Lek** 1995;52(12):606–9 (21 ref.) **(Pol)**

[The function of the granulocytic system during immobilization stress with immunostimulation] Sheiko VI, et al. **Fiziol Zh** 1996;42(1–2):91–5 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

Glucose metabolism in bone marrow cells and granulocytes of adult mice after X-ray (5 Gy) irradiation: relationship to cell functionality. Gaitán S, et al. **Br J Haematol** 1997 Mar;96(3):559–65

Acceleration of granulocytic cell recovery in irradiated mice by a single subcutaneous injection of a heat-killed Lactobacillus casei preparation. Furuse M, et al. **J Radiat Res (Tokyo)** 1997 Jun;38(2):111–20

Detection of chromosomal alterations affecting the 1cen-1q12 region in irradiated granulocytes and lymphocytes by multicolour FISH with tandem DNA probes. Rupa DS, et al. **Mutagenesis** 1997 Jul;12(4):195–200

SECRETION

Role of hemolytic and nonhemolytic phospholipase C from Pseudomonas aeruginosa for inflammatory mediator release from human granulocytes. König B, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):115–24

TRANSPLANTATION

Combined treatment with amphotericin-B and granulocyte transfusion from G-CSF-stimulated donors in an aplastic patient with invasive aspergillosis undergoing bone marrow transplantation. Catalano L, et al. **Haematologica** 1997 Jan–Feb;82(1):71–2

Granulocyte transfusions. Time for a second look. Chanock SJ, et al. **Infect Dis Clin North Am** 1996 Jun;10(2):327–43 (66 ref.)

Meta-analysis of clinical studies of the efficacy of granulocyte transfusions in the treatment of bacterial sepsis. Vamvakas EC, et al. **J Clin Apheresis** 1996;11(1):1–9

Granulocyte transfusion therapy. Klein HG, et al. **Semin Hematol** 1996 Oct;33(4):359–68 (65 ref.)

Transfusions of granulocyte-colony-stimulating factor-mobilized granulocyte components to allogeneic transplant recipients: analysis of kinetics and factors determining posttransfusion neutrophil and platelet counts. Adkins D, et al. **Transfusion** 1997 Jul;37(7):737–48

ULTRASTRUCTURE

Interstitial deletion constitutes the major mechanism for loss of heterozygosity on chromosome 20q in polycythemia vera. Asimakopoulos FA, et al. **Blood** 1996 Oct 1; 88(7):2690–8

Ultrastructure of peripheral blood granulocytes from patients with low serum cobalamin. Bunting RW, et al. **J Submicrosc Cytol Pathol** 1996 Apr;28(2):187–95

Abnormal chromatin clumping in granulocytes in a case of Ph1-negative, BCR-ABL rearrangement positive, haematologically atypical chronic myeloid leukaemia (CML). Tertian G, et al. **Nouv Rev Fr Hematol** 1995; 37(4):245–7

VIROLOGY

Detection of measles virus nucleocapsid transcripts in circulating blood cells from patients with Paget disease [see comments] Reddy SV, et al. **J Bone Miner Res** 1996 Nov; 11(11):1602–7. Comment in: J Bone Miner Res 1996 Nov;11(11):1599–601. Comment in: J Bone Miner Res 1997 May;12(5):863–5.

A reevaluation of the association of hepatitis C virus replicative intermediates with peripheral blood cells including granulocytes by a tagged reverse transcription/polymerase chain reaction technique. Mihm S, et al. **J Hepatol** 1996 Apr;24(4):491–7

GRANULOCYTIC LEUKEMIA see **LEUKEMIA, MYELOID**

GRANULOCYTIC LEUKEMIA, CHRONIC see **LEUKEMIA, MYELOID, CHRONIC**

GRANULOCYTIC LEUKEMIA, CHRONIC, STABLE-PHASE see **LEUKEMIA, MYELOID, CHRONIC-PHASE**

GRANULOCYTOPENIA see **AGRANULOCYTOSIS**

GRANULOMA

see related
TUBERCULOMA

Identification of the mouse calcium-binding proteins, MRP 8 and MRP 14, in Schistosoma mansoni-induced granulomas: biochemical and functional characterization. Yang TH, et al. **J Leukoc Biol** 1997 Mar;61(3):258–66

Systemic fibrosis (generalized xanthofibrogranulomatosis). Streuli R, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):608–9

[Granulomatous prostatitis. Analysis of 15 cases and review of the literature] Madrid García FJ, et al. **Arch Esp Urol** 1996 Oct;49(8):789–95 (13 ref.) (Eng. Abstr.) **(Spa)**

[Bronchocentric granulomatosis with unusual presentation (letter)] Rodríguez Blanco I, et al. **Rev Clin Esp** 1997 Apr; 197(4):297–8 **(Spa)**

CHEMICALLY INDUCED

Necrobiotic palisading suture granulomas involving bone and joint: report of two cases. Marcus VA, et al. **Am J Surg Pathol** 1997 May;21(5):563–5

Sephadex induced granulomatous reaction in rats. Buyssens N, et al. **Exp Toxicol Pathol** 1995 Nov;47(5):381–90

An ulcerated lesion at the BCG vaccination site during the course of Kawasaki disease. Kuniyuki S, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):303–4 (15 ref.)

Cutaneous granulomas caused by an aluminum-zirconium complex: an ingredient of antiperspirants. Montemarano AD, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):496–8

Pyrazinamide-induced granulomatous hepatitis. Knobel B, et al. **J Clin Gastroenterol** 1997 Jun;24(4):264–6

Granulomatous hepatitis induced by aspirin-kodein analgesics. Elzouki AN, et al. **J Intern Med** 1996 Mar; 239(3):279–81

Paracetamol-induced cholestatic and granulomatous liver injuries. Lindgren A, et al. **J Intern Med** 1997 May; 241(5):435–9

[Liver damage caused by sensitivity to anti-inflammatory agents] Bogić M, et al. **Srp Arh Celok Lek** 1997 Sep–Oct; 125(9–10):291–4 (Eng. Abstr.) **(Scc)**

CLASSIFICATION

Granulomatous infections: etiology and classification. Zumla A, et al. **Clin Infect Dis** 1996 Jul;23(1):146–58 (133 ref.)

Description and classification of different types of lesion associated with natural paratuberculosis infection in sheep. Pérez V, et al. **J Comp Pathol** 1996 Feb;114(2):107–122

COMPLICATIONS

A case of actinic granuloma associated with periumbilical perforating pseudoxanthoma elasticum. Lee HW, et al. **Acta Derm Venereol** 1996 Mar;76(2):133–5 (12 ref.)

Suspected malignant lymphoma presenting with widespread granulomatous lesions in bones and lymph nodes and responding to combination chemotherapy. Jensen MK, et al. **Acta Haematol** 1996;96(4):237–41

Granulomatous disease in common variable immunodeficiency. Mechanic LJ, et al. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):613–7

Pathological case of the month. Cholesterol granuloma as a cause of fever of unknown origin. Rothschild M, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):951–2

Hypercalcaemia with methotrexate pneumonitis, possible association with pulmonary granulomata [letter] Cook NJ, et al. **Aust N Z J Med** 1996 Oct;26(5):715

Presence of granulomas is associated with recurrence after surgery for Crohn's disease: experience of a surgical unit. Anseline PF, et al. **Br J Surg** 1997 Jan;84(1):78–82

Massive pleural effusion in diffuse granulomatous disease. Carter AB, et al. **Chest** 1997 Jul;112(1):284–8

Granulomatous Pneumocystis carinii pneumonia in patients with low-grade lymphoid malignancies: a diagnostic dilemma. Kester KE, et al. **Clin Infect Dis** 1996 Jun; 22(6):1111–2

The role of granulomatous phlebitis and thrombosis in the pathogenesis of cirrhosis and portal hypertension in sarcoidosis. Moreno-Merlo F, et al. **Hepatology** 1997 Sep; 26(3):554–60 (29 ref.)

Cutaneous granulomas with two clinical presentations in a patient with common variable immunodeficiency. Ziegler EM, et al. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):499–500

Celiac sprue, idiopathic thrombocytopenic purpura, and hepatic granulomatous disease. An autoimmune linkage? Kahn O, et al. **J Clin Gastroenterol** 1996 Oct;23(3):214–6

Mucinous cystadenoma of appendix concomitant with perityphlic granuloma. Sato T, et al. **J Gastroenterol** 1995 Dec;30(6):779–82

Liver involvement in familial granulomatous arthritis (Blau syndrome). Saini SK, et al. **J Rheumatol** 1996 Feb; 23(2):396–9

Granulomatous lymphangitis of the penile skin as a cause of penile swelling in children. Mor Y, et al. **J Urol** 1997 Aug;158(2):591–2 (12 ref.)

Idiopathic granulomatous hepatitis manifested with fever of unknown origin. Lee YH, et al. **Korean J Intern Med** 1996 Jun;11(2):161–4

Amyloid angiopathy [letter; comment] Rosenblum WI. **Neurology** 1997 Jan;48(1):291. Comment on: Neurology 1996 Jan;46(1):190–7.

Mirizzi syndrome caused by xanthogranulomatous cholecystitis: report of a case. Lee KC, et al. **Surg Today** 1997;27(8):757–61

[A case of porcelain gallbladder with xanthogranulomatous cholecystitis masquerading as gallbladder cancer] Ohmi H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May; 94(5):381–5 **(Jpn)**

[Acute interstitial nephritis with bone marrow granulomas and uveitis] Akioka Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):270–1 (8 ref.) **(Jpn)**

DIAGNOSIS

Xanthogranulomatous cholecystitis: a radiological study of 12 cases and a review of the literature. Casas D, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):456–60 (25 ref.)

MR of xanthogranuloma of the choroid plexus. Kadota T, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1595–7

Adult Schistosoma mansoni worms positively modulate soluble egg antigen–induced inflammatory hepatic granuloma formation in vivo. Stereological analysis and immunophenotyping of extracellular matrix proteins, adhesion molecules, and chemokines. Jacobs W, et al. **Am J Pathol** 1997 Jun;150(6):2033–45

Xanthogranulomatous cholecystitis versus gallbladder cancer: clinical differentiating factors. Yoshida J, et al. **Am Surg** 1997 Apr;63(4):367–71

Postoperative cholesterol cysts of the mastoid. Saito T, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):922–5

Acanthamoeba keratitis with granulomatous reaction involving the stroma and anterior chamber. Mietz H, et al. **Arch Ophthalmol** 1997 Feb;115(2):259–63

Thoracic intraspinal Paracoccidioidomycosis. Case report. Pacheco RA, et al. **Arq Neuropsiquiatr** 1996 Sep; 54(3):474–8 (10 ref.)

Granuloma gluteale infantum. Konya J, et al. **Australas J Dermatol** 1996 Feb;37(1):57–8

Oxidized cellulose (Surgicel) granulomata mimicking tumour recurrence. Sandhu GS, et al. **Br J Neurosurg** 1996 Dec; 10(6):617–9

Ophthaproblem. Granulomatous uveitis. Sharma S. **Can Fam Physician** 1996 Dec;42:2349, 2356

Granulomatous Pneumocystis carinii pneumonia in patients with low–grade lymphoid malignancies: a diagnostic dilemma. Kester KE, et al. **Clin Infect Dis** 1996 Jun; 22(6):1111–2

Vocal process granuloma. al–Dousary S. **Ear Nose Throat J** 1997 Jun;76(6):382–6, 387

Vocal fold granuloma. Goldfarb D. **Ear Nose Throat J** 1996 Mar;75(3):126

Xanthogranulomatous cholecystitis. Kumar A, et al. **Indian J Gastroenterol** 1996 Oct;15(4):122–5

Infantile gluteal granulomata mimicking mollusca contagiosa [letter] Tabata H, et al. **Int J Dermatol** 1997 Feb;36(2):157–8

Imaging of granulomatous neck masses in children. Nadel DM, et al. **Int J Pediatr Otorhinolaryngol** 1996 Oct; 37(2):151–62

A clinicopathologic approach to granulomatous dermatoses [letter] Haycox CL. **J Am Acad Dermatol** 1997 Sep;37(3 Pt 1):511

Macronodular hepatic granulomas due to visceral leishmaniasis in an AIDS patient: imaging findings. Canalias J, et al. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):677–9 (13 ref.)

Wegener's granulomatosis: a meta–analysis of 349 literary case reports. Bajema IM, et al. **J Lab Clin Med** 1997 Jan; 129(1):17–22

Neurosarcoidosis presenting as an intracranial mass in childhood. Leiba H, et al. **J Neuroophthalmol** 1996 Dec; 16(4):269–73

Erdheim–Chester disease of the central nervous system. Report of two cases. Babu RP, et al. **J Neurosurg** 1997 May;86(5):888–92 (26 ref.)

Multifocal noninfectious granulomatous encephalitis in a child. Case report. Lasner TM, et al. **J Neurosurg** 1997 Jun;86(6):1042–5

Ascites with a raised CA 125. D'Souza DJ, et al. **J R Soc Med** 1997 Aug;90(8):448–9

Detection of mycobacterial DNA in formalin–fixed, paraffin–embedded tissue specimens by duplex polymerase chain reaction: application to histopathologic diagnosis. Osaki M, et al. **Mod Pathol** 1997 Jan;10(1):78–83

Comparative study of CT and MRI in patients with seizures and a solitary cerebral cysticercus granuloma. Rajshekhar V, et al. **Neuroradiology** 1996 Aug;38(6):542–6

Granulomatous amebic encephalitis caused by acanthamoeba. Sell JJ, et al. **Neuroradiology** 1997 Jun;39(6):434–6

Idiopathic granulomatous hypophysitis: clinical and imaging features. Vasile M, et al. **Neuroradiology** 1997 Jan; 39(1):7–11

Application of polymerase chain reaction assay in the diagnosis of orbital granuloma complicating atypical oculoglandular cat scratch disease. Dondey JC, et al. **Ophthalmology** 1997 Jul;104(7):1174–8

Granulomatous blepharitis as a sign of Melkersson–Rosenthal syndrome. Yeatts RP, et al. **Ophthalmology** 1997 Jul; 104(7):1185–9; discussion 1189–90

Granulomatous cholangitis in chronic hepatitis C: a new diagnostic problem in liver pathology. Hoso M, et al. **Pathol Int** 1996 Apr;46(4):301–5

Fish tank granuloma in a 14–month–old girl. Speight EL, et al. **Pediatr Dermatol** 1997 May–Jun;14(3):209–12

MR imaging of xanthogranulomatous cholecystitis. Furuta A, et al. **Radiat Med** 1996 Nov–Dec;14(6):315–9

A 69–year–old man with cholestatic liver disease. Jain R, et al. **Semin Liver Dis** 1996 Nov;16(4):445–9

Tongue involvement in a patient with granulomatous myositis. Khan AR, et al. **South Med J** 1997 Sep; 90(9):937–9

[Granulomatous mastitis and corynebacteria infection. Two case reports] Binelli C, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):27–32 (Eng. Abstr.) **(Fre)**

[Actinomycetes granuloma of the upper eyelid] Tritten JJ, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):339–40 (Eng. Abstr.) **(Fre)**

[A case report of Erdheim–Chester disease] Furutani K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Aug; 56(9):681–3 (Eng. Abstr.) **(Jpn)**

[Intracranial fungal granuloma with CSF space dissemination: a case report] Zheng L, et al. **No Shinkei Geka** 1996 Apr; 24(4):389–92 (Eng. Abstr.) **(Jpn)**

[A case of a foreign body—surgical linen left in the abdominal cavity 25 years earlier] Emerich J, et al. **Ginekol Pol** 1996 May;67(5):274–6 (Eng. Abstr.) **(Pol)**

[The electron immunochemical detection of mycobacterial antigens in the granulomas of leprosy patients] Maslov AK, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan–Feb; (1):84–7 (Eng. Abstr.) **(Rus)**

[Xanthogranulomatous cholecystitis simulating gallbladder neoplasm: therapeutic implications] Balagué C, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):503–6 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Effect of slow release IL–12 and IL–10 on inflammation, local macrophage function and the regional lymphoid response during mycobacterial (Th1) and schistosomal (Th2) antigen–elicited pulmonary granuloma formation. Chensue SW, et al. **Inflamm Res** 1997 Mar;46(3):86–92

Granulomatous mastitis diagnosed and followed up by fine–needle aspiration cytology, and successfully treated by corticosteroid therapy: report of a case. Sato N, et al. **Surg Today** 1996;26(9):730–3

ENZYMOLOGY

Expression of inducible nitric oxide synthase and its involvement in pulmonary granulomatous inflammation in rats. Setoguchi K, et al. **Am J Pathol** 1996 Dec; 149(6):2005–22

EPIDEMIOLOGY

Incidence of granulomatous prostatitis and acid–fast bacilli after intravesical BCG therapy. LaFontaine PD, et al. **Urology** 1997 Mar;49(3):363–6

ETIOLOGY

Erythema nodosum and acute Q fever: report of a case with granulomatous hepatitis and immunological abnormalities [letter] Vázquez–López F, et al. **Acta Derm Venereol** 1997 Jan;77(1):73–4

Periorbital paraffingranuloma following paranasal sinus surgery. Keerl R, et al. **Am J Otolaryngol** 1996 Jul–Aug; 17(4):264–8

Lipogranulomas as complications of septorhinoplasty. Rettinger G, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):809–14

Actinic granulomata in a young woman following prolonged sunbed usage [letter] Davies MG, et al. **Br J Dermatol** 1997 May;136(5):797–8

Paravesical mass following inguinal herniorraphy. Walsh IK, et al. **Br J Urol** 1996 Dec;78(6):957–8

Unusual orbital presentations of dural sarcoidosis. Kao SC, et al. **Can J Ophthalmol** 1996 Jun;31(4):195–200

Cell recruitment to the sperm granuloma which follows vasectomy in the rat. Caldwell JC, et al. **Clin Anat** 1996; 9(5):302–8

Granulomatous infections: etiology and classification. Zumla A, et al. **Clin Infect Dis** 1996 Jul;23(1):146–58 (133 ref.)

Xanthogranuloma and xanthoma of the choroid plexus: evidence for different etiology and pathogenesis. Muenchau A, et al. **Clin Neuropathol** 1997 Mar–Apr;16(2):72–6

Cutaneous T–cell lymphoma associated with granulomatous slack skin. Mouly F, et al. **Dermatology** 1996;192(3):288–90

Granulomatous hepatitis in a patient with chronic hepatitis C treated with interferon–alpha. Veerabagu MP, et al. **Dig Dis Sci** 1997 Jul;42(7):1445–8

Expression of class II, but not class I, major histocompatibility complex molecules is required for granuloma formation in infection with Schistosoma mansoni. Hernandez HJ, et al. **Eur J Immunol** 1997 May; 27(5):1170–6

Bone marrow granulomas in hairy cell leukaemia [letter; comment] Schmidt HH, et al. **Histopathology** 1996 Sep; 29(3):291–2. Comment on: Histopathology 1994 Mar;24(3):271–3.

Postoperative carbon pigment granuloma: a report of eight cases involving the ovary [published erratum appears in Hum Pathol 1997 Jan;28(1):116] Tatum ET, et al. **Hum Pathol** 1996 Oct;27(10):1008–11

Mechanisms of granuloma formation in murine Mycobacterium avium infection: the contribution of CD4+ T cells. Hänsch HC, et al. **Int Immunol** 1996 Aug; 8(8):1299–310

Ovarian granulomas: a report of 32 cases. McCluggage WG, et al. **J Clin Pathol** 1997 Apr;50(4):324–7

Mycobacterial and schistosomal antigen–elicited granuloma formation in IFN–gamma and IL–4 knockout mice: analysis of local and regional cytokine and chemokine networks. Chensue SW, et al. **J Immunol** 1997 Oct 1;159(7):3565–73

Extrapulmonary sarcoidosis: rapid spontaneous remission of marked splenomegaly. Ali Y, et al. **J Natl Med Assoc** 1996 Nov;88(11):714–6

Petrous apex cholesterol granulomas: evolution and management. Eisenberg MB, et al. **J Neurosurg** 1997 May; 86(5):822–9

Teflon–induced granuloma following treatment of trigeminal neuralgia by microvascular decompression. Report of two cases. Premsagar IC, et al. **J Neurosurg** 1997 Sep; 87(3):454–7

Granulomatous mass in a nonrefluxing renal unit after bacillus Calmette–Guerin therapy for bladder cancer. Siskron FT 4th, et al. **J Urol** 1997 Sep;158(3 Pt 1):882–3

Cytokine regulation of schistosome–induced granuloma and fibrosis. Wahl SM, et al. **Kidney Int** 1997 May;51(5):1370–5 (62 ref.)

Neutrophils and reactive oxygen intermediates mediate glucan–induced pulmonary granuloma formation through the local induction of monocyte chemoattractant protein–1. Kilgore KS, et al. **Lab Invest** 1997 Feb;76(2):191–201

Sarcoidosis [letter] Piagnerelli M, et al. **N Engl J Med** 1997 Sep 11;337(11):789–90; discussion 791

Lipogranuloma: a preventable complication of dacryocystorhinostomy. Kerendian J, et al. **Ophthalmic Surg Lasers** 1996 Aug;27(8):713–5

Application of polymerase chain reaction assay in the diagnosis of orbital granuloma complicating atypical oculoglandular cat scratch disease. Dondey JC, et al. **Ophthalmology** 1997 Jul;104(7):1174–8

Experimental granulomatous vasculitis induced by sensitization with Ascaris suum antigen in mice. Alwie ML, et al. **Pathol Int** 1995 Dec;45(12):914–24

Actinic granuloma in association with giant cell arteritis: are both caused by sunlight? Lau H, et al. **Pathology** 1997 Aug; 29(3):260–2

Idiopathic bronchocentric granulomatosis in an adolescent. Millar JG, et al. **Pediatr Pulmonol** 1997 Jan;23(1):62–5

Disseminated pulmonary granulomas after intravesical bacillus Calmette–Guérin immunotherapy. De Diego A, et al. **Respiration** 1997;64(4):304–6

Bronchocentric granulomatosis in a nonasthmatic patient without etiologic agent. Ortiz–Saracho J, et al. **Respiration** 1996;63(2):120–2

[Gallbladder involvement in Crohn disease] Bouteloup C, et al. **Gastroenterol Clin Biol** 1997;21(2):153–5 (Eng. Abstr.) **(Fre)**

[Granulomatous involvement of the pancreas in Crohn disease associated with Takayasu arteritis (letter)] Reimund JM, et al. **Gastroenterol Clin Biol** 1997;21(5):437–8 **(Fre)**

[Systemic granulomatosis caused by a Dacron prosthetic ligament] Aziza R, et al. **J Radiol** 1997 Jul;78(7):507–9 (Eng. Abstr.) **(Fre)**

[Hepatic granulomatosis associated with a circulating anticoagulant, disclosing Q fever (letter)] Devars du Mayne JF, et al. **Presse Med** 1997 Apr 26;26(14):666 **(Fre)**

[Atypical cat–scratch disease: a case report of splenic granulomatosis] Dodi I, et al. **Pediatr Med Chir** 1997 Mar–Apr;19(2):143–4 (Eng. Abstr.) **(Ita)**

[Vesico–acetabular fistula occurring 10 years after total hip replacement] Hamano S, et al. **Hinyokika Kiyo** 1996 Oct; 42(10):743–5 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Epidural granuloma following craniotomy] Sato M, et al. **No To Shinkei** 1997 Jul;49(7):660–1 **(Jpn)**

[Granulomatous interstitial nephritis] Tateno S, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):262–5 (18 ref.) **(Jpn)**

[Intubation granuloma of the cavum infraglotticum combined with limited chondroperichondritis of the cricoid cartilage] Gadzhimirzaev GA, et al. **Vestn Otorinolaringol** 1997; (4):49–50 **(Rus)**

[Hepatic granulomas in a patient with acquired hypogammaglobulinemia] Artaza Varasa T, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):517–8 (Eng. Abstr.) **(Spa)**

GENETICS

Genetic linkage of familial granulomatous inflammatory arthritis, skin rash, and uveitis to chromosome 16. Tromp G, et al. **Am J Hum Genet** 1996 Nov;59(5):1097–107

HISTORY

Reparative granuloma following stapedectomy: a clinical entity. 1967 [classical article] Kaufman RS, et al. **Ann Otol Rhinol Laryngol** 1997 Jan;106(1):5–14

IMMUNOLOGY

Vasoactive intestinal peptide regulation of granulomatous inflammation in murine Schistosomiasis mansoni. Weinstock JV. **Adv Neuroimmunol** 1996;6(1):95–105 (51 ref.)

Adult Schistosoma mansoni worms positively modulate soluble egg antigen–induced inflammatory hepatic granuloma formation in vivo. Stereological analysis and immunophenotyping of extracellular matrix proteins, adhesion molecules, and chemokines. Jacobs W, et al. **Am J Pathol** 1997 Jun;150(6):2033–45

Lung granulomatous response induced by infection with the intestinal nematode Nippostrongylus brasiliensis is suppressed in mast cell–deficient Ws/Ws rats. Arizono N, et al. **Clin Exp Immunol** 1996 Oct;106(1):55–61

Expression of class II, but not class I, major histocompatibility complex molecules is required for granuloma formation in infection with Schistosoma mansoni. Hernandez HJ, et al. **Eur J Immunol** 1997 May; 27(5):1170–6

Kinetics of interleukin–6 production after experimental infection of mice with Schistosoma mansoni. Khalil RM, et al. **Immunology** 1996 Oct;89(2):256–61

Cellularity of macrophage granuloma and morphological index. Porichha D, et al. **Indian J Lepr** 1996 Jul–Sep; 68(3):217–22

Regulation of schistosome egg granuloma formation: host–soluble L–selectin enters tissue–trapped eggs and binds to carbohydrate antigens on surface membranes of miracidia. El Ridi R, et al. **Infect Immun** 1996 Nov; 64(11):4700–5

Intercellular adhesion molecule 1 is the major adhesion molecule expressed during schistosome granuloma formation. Ritter DM, et al. **Infect Immun** 1996 Nov; 64(11):4706–13

Granuloma cytokines in murine cysticercosis. Robinson P, et al. **Infect Immun** 1997 Jul;65(7):2925–31

Tumor necrosis factor receptor p55 is essential for intrahepatic granuloma formation and hepatocellular apoptosis in a murine model of bacterium–induced fulminant hepatitis. Tsuji H, et al. **Infect Immun** 1997 May; 65(5):1892–8

Unimpaired down–modulation of the hepatic granulomatous response in CD8 T–cell– and gamma interferon–deficient mice chronically infected with Schistosoma mansoni. Yap G, et al. **Infect Immun** 1997 Jul;65(7):2583–6

Effect of IL–12 on granuloma formation induced by injected Schistosoma japonicum eggs. Yang JQ, et al. **Int J Parasitol** 1997 Jul;27(7):861–4

Impaired host defense, hematopoiesis, granulomatous inflammation and type 1–type 2 cytokine balance in mice lacking CC chemokine receptor 1. Gao JL, et al. **J Exp Med** 1997 Jun 2;185(11):1959–68

Mycobacterial and schistosomal antigen–elicited granuloma formation in IFN–gamma and IL–4 knockout mice: analysis of local and regional cytokine and chemokine networks. Chensue SW, et al. **J Immunol** 1997 Oct 1;159(7):3565–73

Mice with a targeted deletion of the IgE gene have increased worm burdens and reduced granulomatous inflammation following primary infection with Schistosoma mansoni. King CL, et al. **J Immunol** 1997 Jan 1;158(1):294–300

Schistosome egg granulomas and hepatic expression of TNF–alpha are dependent on immune priming during parasite maturation. Leptak CL, et al. **J Immunol** 1997 Jan 1;158(1):301–7

Transgene–induced production of IL–4 alters the development and collagen expression of T helper cell 1–type pulmonary granulomas. Lukacs NW, et al. **J Immunol** 1997 May 1;158(9):4478–84

The granulomatous response in murine Schistosomiasis mansoni does not switch to Th1 in IL–4–deficient C57BL/6 mice. Metwali A, et al. **J Immunol** 1996 Nov 15; 157(10):4546–53

B7–2 requirement for helminth–induced granuloma formation and CD4 type 2 T helper cell cytokine expression. Subramanian G, et al. **J Immunol** 1997 Jun 15; 158(12):5914–20

Adoptive transfer of granulomatous inflammation to Brugia antigens in jirds. Klei TR, et al. **J Parasitol** 1997 Aug; 83(4):626–9

Properties of multinucleated giant cells in a new in vitro model for human granuloma formation. Seitzer U, et al. **J Pathol** 1997 May;182(1):99–105

Expression of costimulatory molecules B7–1 and B7–2 in macrophages and granulomas of Crohn's disease: demonstration of cell–to–cell contact with T lymphocytes. Hara J, et al. **Lab Invest** 1997 Aug;77(2):175–84

Granulomas in murine schistosomiasis mansoni have a somatostatin immunoregulatory circuit. Elliott DE, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):88–90 (37 ref.)

Kinetics of organ–associated natural killer cells and intermediate CD3 cells during pulmonary and hepatic granulomatous inflammation induced by mycobacterial cord factor. Tabata A, et al. **Microbiol Immunol** 1996; 40(9):651–8

Schistosoma mansoni: unisexual infections sensitized mice for granuloma formation around intravenously injected eggs. Cheever AW, et al. **Parasitol Res** 1997;83(1):57–9

A chemoattractant cytokine associated with granulomas in tuberculosis and silicosis. Nau GJ, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6414–9

Schistosoma mansoni: exacerbation of inflammatory granulomatous response in mice chronically infected and submitted to reinfection. Coelho PM, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug;38(4):303–5

Th1 and Th2 responses regulate experimental lung granuloma development. Kunkel SL, et al. **Sarcoidosis Vasc Diffuse Lung Dis** 1996 Sep;13(2):120–8 (86 ref.)

Human schistosomiasis: modulation of in vitro granulomatous hypersensitivity and lymphocyte proliferative response by macrophages undergoing differentiation. Silva–Teixeira DN, et al. **Scand J Immunol** 1996 Nov;44(5):522–9

[Thy–1 induction and its tissue–specific regulation in the rat––studies on acute rejection and granulomatous inflammation] Takeuchi E. **Hokkaido Igaku Zasshi** 1996 Jul;71(4):531–42 (Eng. Abstr.) **(Jpn)**

[The evaluation of the status of the body's protective mechanisms in the clinical picture of odontogenic inflammatory diseases] Leonova LE, et al. **Stomatologiia (Mosk)** 1996;Spec No:65–6 **(Rus)**

METABOLISM

Expression of macrophage colony–stimulating factor and its receptor in hepatic granulomas of Kupffer–cell–depleted mice. Moriyama H, et al. **Am J Pathol** 1997 Jun; 150(6):2047–60

Proteoglycan degrading activity in granulomatous inflammation: comparison between the C57b1/6 and C57bg/bg mouse. Prigent D, et al. **Inflamm Res** 1996 Oct; 45(10):494–8

Urinary excretion of the collagen cross–link pyridinoline increases during liver fibrogenesis. Grenard P, et al. **J Hepatol** 1997 Jun;26(6):1356–62

Substance P receptor antagonist inhibits murine IgM expression in developing schistosome granulomas by blocking the terminal differentiation of intragranuloma B cells. Blum A, et al. **J Neuroimmunol** 1996 May; 66(1–2):1–10

The role of vascular endothelial growth factor in a murine chronic granulomatous tissue air pouch model of angiogenesis. Appleton I, et al. **J Pathol** 1996 Sep; 180(1):90–4

Immunohistochemical and ultrastructural analyses of in situ activation of hepatic stellate cells around Propionibacterium acnes–induced granulomas in the rat liver. Tsuji N, et al. **J Submicrosc Cytol Pathol** 1997 Jan; 29(1):125–33

Osteopontin is strongly expressed by histiocytes in granulomas of diverse etiology. Carlson I, et al. **Lab Invest** 1997 Jul;77(1):103–8

Expression of intercellular adhesion molecule–1 and lymphocytefunction–associated antigen–1 in experimental Schistosoma mansoni infection and in synchronous periparticular hepatic granulomas in mice: immunohistochemistry, confocal laser scanning microscopy, and immunoelectron microscopy. Jacobs W, et al. **Parasitol Res** 1997;83(5):405–12

Growth factors and granulomatous inflammation [letter; comment] Harrison NK. **Thorax** 1997 Jun;52(6):588. Comment on: Thorax 1996 Dec;51(12):1253–61.

MICROBIOLOGY

Rapid detection of mycobacteria in inflammatory necrotizing granulomas from formalin–fixed, paraffin–embedded tissue by PCR in clinically high–risk patients with acid–fast stain and culture–negative tissue biopsies. Hardman WJ, et al. **Am J Clin Pathol** 1996 Sep;106(3):384–9

Fish tank granuloma in a 4–year–old boy [letter] Bleiker TO, et al. **Br J Dermatol** 1996 Nov;135(5):863–4

Serratia marcescens granuloma [letter] Yanagi T, et al. **Br J Dermatol** 1997 Feb;136(2):289–90

Unusual development of granulomas on the healing surface of burn wounds associated with MRSA infections. Gang RK, et al. **Burns** 1996 Feb;22(1):57–61

Immunohistochemistry with monoclonal antibody against Candida albicans mannan antigen demonstrates cutaneous Candida granulomas as evidence of Candida sepsis in an immunosuppressed host. Breier F, et al. **Dermatology** 1997; 194(3):293–6

Nodular granulomatous phlebitis of the skin: a fourth type of tuberculid. Hara K, et al. **Histopathology** 1997 Feb; 30(2):129–34

Role of T–cell subsets in protection, delayed type of hypersensitivity and granuloma formation during Yersinia enterocolitica infection in mice. Thakur A. **Immunol Lett** 1996 Jan;49(1–2):1–6

Mycobacterium marinum causes both long–term subclinical infection and acute disease in the leopard frog (Rana pipiens). Ramakrishnan L, et al. **Infect Immun** 1997 Feb; 65(2):767–73

Tumor necrosis factor receptor p55 is essential for intrahepatic granuloma formation and hepatocellular apoptosis in a murine model of bacterium–induced fulminant hepatitis. Tsuji H, et al. **Infect Immun** 1997 May; 65(5):1892–8

Kinetics of organ–associated natural killer cells and intermediate CD3 cells during pulmonary and hepatic granulomatous inflammation induced by mycobacterial cord factor. Tabata A, et al. **Microbiol Immunol** 1996; 40(9):651–8

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 33–1996. A 55–year–old man with a long–term tracheostomy and acid–fast bacilli in peristomal granulations [clinical conference] ANON. **N Engl J Med** 1996 Oct 24;335(17):1303–7

Images in clinical medicine. Fish–tank granuloma. Wolfe SF, et al. **N Engl J Med** 1997 Apr 10;336(15):1065

Intracranial fungal granuloma. Sharma BS, et al. **Surg Neurol** 1997 May;47(5):489–97

Incidence of granulomatous prostatitis and acid–fast bacilli after intravesical BCG therapy. LaFontaine PD, et al. **Urology** 1997 Mar;49(3):363–6

[Visceral granulomas and pericardial effusion caused by a Bartonella henselae infection] Bakker RC, et al. **Ned Tijdschr Geneeskd** 1997 Feb 22;141(8):388–90 (Eng. Abstr.) **(Dut)**

[Granulomatous form of cerebral cryptococcosis: a case report] Fobe JL, et al. **Arq Neuropsiquiatr** 1995 Dec; 53(4):802–6 (Eng. Abstr.) **(Por)**

[Granulomatous prostatitis as a complication of BCG intravesical instillation. Report of a case] Luján Galán M, et al. **Arch Esp Urol** 1996 Nov;49(9):979–81 (Eng. Abstr.) **(Spa)**

PARASITOLOGY

Granulomatous mastitis caused by sparganum. A case report. Moreira MA, et al. **Acta Cytol** 1997 May–Jun;41(3):859–62

Respiratory symptoms and subcutaneous granuloma caused by mesocercariae: a case report. Kramer MH, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):447–8

Schistosoma mansoni: permanence of modulation of the granulomatous inflammatory response in mice cured in the chronic phase. Coelho PM, et al. **Int J Parasitol** 1996 Dec; 26(12):1393–5

Mice with a targeted deletion of the IgE gene have increased worm burdens and reduced granulomatous inflammation following primary infection with Schistosoma mansoni. King CL, et al. **J Immunol** 1997 Jan 1;158(1):294–300

Fatal granulomatous amoebic encephalitis caused by Balamuthia mandrillaris. Reed RP, et al. **Med J Aust** 1997 Jul 21;167(2):82–4 (10 ref.)

[Toxocara canis infection. 2 cases of peripheral granuloma in adults] Saint–Blancat P, et al. **J Fr Ophtalmol** 1997; 20(4):252–7 (19 ref.) (Eng. Abstr.) **(Fre)**

[Cardiac granulomas due to Schistosoma eggs and endomyocardial fibrosis] Victor EG, et al. **Arq Bras Cardiol** 1996 Oct;67(4):259–61 (Eng. Abstr.) **(Por)**

PATHOLOGY

Cytology of granulomatous mastitis. Kumarasinghe MP. **Acta Cytol** 1997 May–Jun;41(3):727–30

Xanthogranulomatous cholecystitis. Fine needle aspiration cytology in 17 cases. Shukla S, et al. **Acta Cytol** 1997 Mar–Apr;41(2):413–8

Suspected malignant lymphoma presenting with widespread granulomatous lesions in bones and lymph nodes and responding to combination chemotherapy. Jensen MK, et al. **Acta Haematol** 1996;96(4):237–41

Chronic parasite infection in mice induces brain granulomas and differentially alters brain nerve growth factor levels and thermal responses in paws. Aloe L, et al. **Acta Neuropathol (Berl)** 1996 Sep;92(3):300–5

Vasoactive intestinal peptide regulation of granulomatous inflammation in murine Schistosomiasis mansoni. Weinstock JV. **Adv Neuroimmunol** 1996;6(1):95–105 (51 ref.)

Bone marrow granulomas associated with chronic natural killer cell lymphocytosis. Tefferi A, et al. **Am J Hematol** 1997 Mar;54(3):258–62

Expression of inducible nitric oxide synthase and its involvement in pulmonary granulomatous inflammation in rats. Setoguchi K, et al. **Am J Pathol** 1996 Dec; 149(6):2005–22

Overexpression of granulocyte–macrophage colony–stimulating factor induces pulmonary granulation tissue formation and fibrosis by induction of transforming growth factor–beta 1 and myofibroblast accumulation. Xing Z, et al. **Am J Pathol** 1997 Jan;150(1):59–66

Localized chronic fibrosing vasculitis of the skin: an inflammatory reaction that occurs in settings other than erythema elevatum diutinum and granuloma faciale. Carlson JA, et al. **Am J Surg Pathol** 1997 Jun;21(6):698–705

Hepatic granulomas in children. A clinicopathologic analysis of 23 cases including polymerase chain reaction for histoplasma. Collins MH, et al. **Am J Surg Pathol** 1996 Mar;20(3):332–8

Granulomatous prostatitis on needle biopsy. Oppenheimer JR, et al. **Arch Pathol Lab Med** 1997 Jul;121(7):724–9

Pathological case of the month. Cholesterol granuloma as a cause of fever of unknown origin. Rothschild M, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):951–2

Xanthogranulomatous inflammation of the sigmoid colon: a case report. Lo CY, et al. **Aust N Z J Surg** 1996 Sep; 66(9):643–4

CD44 regulates hematopoietic progenitor distribution, granuloma formation, and tumorigenicity. Schmits R, et

al. **Blood** 1997 Sep 15;90(6):2217–33

Renal granulomas in systemic vasculitis. EC/BCR Project for ANCA–Assay Standardization. Bajema IM, et al. **Clin Nephrol** 1997 Jul;48(1):16–21

Xanthogranuloma and xanthoma of the choroid plexus: evidence for different etiology and pathogenesis. Muenchau A, et al. **Clin Neuropathol** 1997 Mar–Apr;16(2):72–6

Necrobiotic xanthogranuloma with paraproteinemia: an evolving presentation. Johnston KA, et al. **Cutis** 1997 Jun; 59(6):333–6

Tinea incognito: an update on Majocchi granuloma. Elgart ML. **Dermatol Clin** 1996 Jan;14(1):51–55 (18 ref.)

Cutaneous granulomas as a presenting sign in ataxia–telangiectasia. Drolet BA, et al. **Dermatology** 1997; 194(3):273–5 (16 ref.)

Utility of fine–needle aspiration in the diagnosis of granulomatous lesions of the breast. Martínez–Parra D, et al. **Diagn Cytopathol** 1997 Aug;17(2):108–14

Cytologic features of necrotizing granulomatous inflammation consistent with cat–scratch disease. Stastny JF, et al. **Diagn Cytopathol** 1996 Aug;15(2):108–15

Diffuse progressive pulmonary interstitial and intra–alveolar cholesterol granulomas in childhood. Sato K, et al. **Eur Respir J** 1996 Nov;9(11):2419–22

Schistosoma mansoni: development and modulation of the granuloma after or multiple exposures in the baboon (Papio cynocephalus anubis). Farah IO, et al. **Exp Parasitol** 1997 Jun;86(2):93–101

Sarcoid–like reaction in the regional lymph nodes and spleen in gastric carcinoma: a clinicopathologic study of five cases. Kojima M, et al. **Gen Diagn Pathol** 1997 Jun; 142(5–6):347–52

Granulomas and hepatitis C. Goldin RD, et al. **Histopathology** 1996 Mar;28(3):265–7

Postoperative carbon pigment granuloma: a report of eight cases involving the ovary [published erratum appears in Hum Pathol 1997 Jan;28(1):116] Tatum ET, et al. **Hum Pathol** 1996 Oct;27(10):1008–11

Xanthogranulomatous endometritis. Badhe PB, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):321–3

Kinetic study of eosinophil chemotactic factor production with reference to eosinophilia and granuloma formation in mice infected with Schistosoma japonicum. Owhashi M, et al. **Int J Parasitol** 1996 Jul;26(7):705–11

Primary lung cancer associated with diffuse granulomatous lesions in the pulmonary parenchyma. Segawa Y, et al. **Intern Med** 1996 Sep;35(9):728–31

Evaluation of the atopy patch test and the cutaneous late–phase reaction as relevant models for the study of allergic inflammation in patients with atopic eczema. Langeveld–Wildschut EG, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1019–27

A clinicopathologic approach to granulomatous dermatoses. Rabinowitz LO, et al. **J Am Acad Dermatol** 1996 Oct; 35(4):588–600 (70 ref.)

Bone marrow granulomas in infiltrating lobular breast cancer. Kettle P, et al. **J Clin Pathol** 1997 Feb;50(2):166–8

Importance of cryptolytic lesions and pericryptal granulomas in inflammatory bowel disease. Lee FD, et al. **J Clin Pathol** 1997 Feb;50(2):148–52

Description and classification of different types of lesion associated with natural paratuberculosis infection in sheep. Pérez V, et al. **J Comp Pathol** 1996 Feb;114(2):107–122

Studies on granuloma formation in Syrian hamsters experimentally infected with Schistosoma mansoni. Abou Rashed A, et al. **J Egypt Soc Parasitol** 1997 Aug; 27(2):411–8

Granulomatous sarcoidotic lesion of hypothalamic–pituitary region associated with Rathke's cleft cyst. Cannavò S, et al. **J Endocrinol Invest** 1997 Feb;20(2):77–81

Role of monocyte chemoattractant protein–1 (MCP–1) in Th1 (mycobacterial) and Th2 (schistosomal) antigen–induced granuloma formation: relationship to local inflammation, Th cell expression, and IL–12 production. Chensue SW, et al. **J Immunol** 1996 Nov 15;157(10):4602–8

Schistosome egg granulomas and hepatic expression of TNF–alpha are dependent on immune priming during parasite maturation. Leptak CL, et al. **J Immunol** 1997 Jan 1;158(1):301–7

The granulomatous response in murine Schistosomiasis mansoni does not switch to Th1 in IL–4–deficient C57BL/6 mice. Metwali A, et al. **J Immunol** 1996 Nov 15; 157(10):4546–53

Role of intercellular adhesion molecule–1 in glucan–induced pulmonary granulomatosis in the rat. Barton PA, et al. **J Lab Clin Med** 1996 Aug;128(2):181–93

Animal model Balamuthia mandrillaris CNS infection: contrast and comparison in immunodeficient and immunocompetent mice: a murine model of "granulomatous" amebic encephalitis. Janitschke K, et al. **J Neuropathol Exp Neurol** 1996 Jul;55(7):815–21

Erdheim–Chester disease of the central nervous system. Report of two cases. Babu RP, et al. **J Neurosurg** 1997 May;86(5):888–92 (26 ref.)

Correlation of granuloma structure with clinical outcome defines two types of idiopathic disseminated BCG infection. Emile JF, et al. **J Pathol** 1997 Jan;181(1):25–30 (35 ref.)

Juvenile systemic granulomatosis manifesting as premature aging syndrome and renal failure. Umemoto M, et al. **J Rheumatol** 1997 Feb;24(2):393–5

Immunohistochemical and ultrastructural analyses of in situ activation of hepatic stellate cells around Propionibacterium acnes–induced granulomas in the rat liver. Tsuji N, et al. **J Submicrosc Cytol Pathol** 1997 Jan; 29(1):125–33

Primary cutaneous granulomatous phlebitis with visceral involvement: unmasking of a masked villain. Lie JT. **Mod Pathol** 1996 Jul;9(7):719–24

Macrophage differentiation and granulomatous inflammation in osteopetrotic mice (op/op) defective in the production of CSF–1. Naito M, et al. **Mol Reprod Dev** 1997 Jan; 46(1):85–91 (13 ref.)

Multisystem granulomatous disorders [clinical conference] James G. **Mt Sinai J Med** 1997 Jan;64(1):1–7

Intravascular granuloma induced by intravenous inoculation of Cryptococcus neoformans. Yamaoka H, et al. **Mycopathologia** 1996;133(3):149–58

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 39–1996. A 30–year–old man with a generalized tonic–clonic seizure and a left temporal–lobe mass [clinical conference] Anon. **N Engl J Med** 1996 Dec 19;335(25):1906–14

An unusual case of Wegener's granulomatosis [letter] Bali M, et al. **Nephron** 1997;76(2):237–8

Lymphocytic and granulomatous hypophysitis: experience with nine cases. Honegger J, et al. **Neurosurgery** 1997 Apr; 40(4):713–22; discussion 722–3 (41 ref.)

Granulomatous cholangitis in chronic hepatitis C: a new diagnostic problem in liver pathology. Hoso M, et al. **Pathol Int** 1996 Apr;46(4):301–5

Rheumatoid arthritis complicated by pachy– and leptomeningeal rheumatoid nodule–like granulomas and systemic vasculitis. Kamio N, et al. **Pathol Int** 1996 Jul; 46(7):526–30

Suppurative lesions without prominent epithelioid cell response in abscess–forming granulomatous lymphadenitis. Kojima M, et al. **Pathol Res Pract** 1995 Nov; 191(11):1072–77

Necrotizing sarcoid granulomatosis with and without extrapulmonary involvement. Le Gall F, et al. **Pathol Res Pract** 1996 Mar;192(3):306–13; discussion 314

Xanthogranulomatous cholecystis. Cell composition and a possible pathogenetic role of cell–mediated immunity. Nakashiro H, et al. **Pathol Res Pract** 1995 Nov; 191(11):1078–86

Inguinal hernia incarceration as a form of intestinal tuberculosis. Faccin M, et al. **Rev Paul Med** 1996 Jan–Feb; 114(1):1097–9

A human in vitro granuloma model using heat killed Candida albicans cells immobilized on plastic culture wells. Heinemann DE, et al. **Scand J Immunol** 1997 Jun; 45(6):596–604

Granulomatous mastitis diagnosed and followed up by fine–needle aspiration cytology, and successfully treated by corticosteroid therapy: report of a case. Sato N, et al. **Surg Today** 1996;26(9):730–3

Chronic granulomatous pneumonia and lymphocytic responses induced by inhaled beryllium metal in A/J and C3H/HeJ mice. Nikula KJ, et al. **Toxicol Pathol** 1997 Jan–Feb;25(1):2–12

Granuloma of the lacrimal sac. Ardenghy M, et al. **W V Med J** 1996 Mar–Apr;92(2):92–3

Gamma/delta T lymphocytes in the BCG granulomatous lesions. Kim DS, et al. **Yonsei Med J** 1996 Oct;37(5):319–24

Invasive breast carcinoma with granulomatous stromal response. Alujević A, et al. **Zentralbl Gynakol** 1997; 119(7):343–5

["Metastatic" Crohn's disease of the penis] Bloget F, et al. **Ann Pathol** 1996 Sep;16(4):296–8 (Eng. Abstr.) **(Fre)**

[Lipogranuloma of the orbit. Apropos of a case] Herrmann B, et al. **J Fr Ophtalmol** 1996;19(12):780–4 (Eng. Abstr.) **(Fre)**

[A case of Oberling's retroperitoneal xanthogranuloma in pilot] Kvashin IK, et al. **Aviakosm Ekolog Med** 1996; 30(6):62–3 (Eng. Abstr.) **(Rus)**

[A 69–year–old woman with predominantly proximal muscle weakness for 6 years (clinical conference)] Cardellach F, et al. **Med Clin (Barc)** 1996 Jun 15;107(3):107–14 **(Spa)**

PHYSIOPATHOLOGY

Extensive cholesterol granuloma. Pulec JL, et al. **Ear Nose Throat J** 1996 May;75(5):272

The modulation of granulomatous tissue and tumour angiogenesis by diclofenac in combination with hyaluronan (HYAL EX–0001). Freemantle C, et al. **Int J Tissue React** 1995;17(4):157–66 (51 ref.)

Relationship between induction of macrophage chemotactic factors and formation of granulomas caused by mycoloyl glycolipids from Rhodococcus ruber (Nocardia rubra). Matsunaga I, et al. **J Biochem (Tokyo)** 1996 Sep; 120(3):663–70

Effect of policosanol on foam–cell formation in carrageenan–induced granulomas in rats. Noa M, et al. **J Pharm Pharmacol** 1996 Mar;48(3):306–9

Granulomas in murine schistosomiasis mansoni have a somatostatin immunoregulatory circuit. Elliott DE, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):88–90 (37 ref.)

[Cholesterol granuloma of the temporal lobe] Morais D, et al. **Acta Otorrinolaringol Esp** 1996 Jul–Aug;47(4):317–20 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Corynebacterium parvum– and Mycobacterium bovis bacillus Calmette–Guerin–induced granuloma formation is inhibited in TNF receptor I (TNF–RI) knockout mice and by treatment with soluble TNF–RI. Senaldi G, et al. **J Immunol** 1996 Dec 1;157(11):5022–6

Immunosuppression and inhibition of inflammation in mice induced by a small Taenia solium RNA–peptide to implanted T. solium metacestodes. Tato P, et al. **Parasitol Res** 1996;82(7):590–7

Induction of protective immunity and modulation of granulomatous hypersensitivity in mice using PIII, an anionic fraction of Schistosoma mansoni adult worm. Hirsch C, et al. **Parasitology** 1997 Jul;115 (Pt 1):21–8

RADIOGRAPHY

Intramedullary spinal cord paracoccidioidomycosis. Report of two cases. Colli BO, et al. **Arq Neuropsiquiatr** 1996 Sep; 54(3):466–73

CT diagnosis of granulomatous mediastinitis due to tuberculosis. Odev K, et al. **Eur J Radiol** 1996 Nov; 23(3):241–6

Xanthogranulomatous cholecystitis: CT features with emphasis on differentiation from gallbladder carcinoma [see comments] Chun KA, et al. **Radiology** 1997 Apr; 203(1):93–7. Comment in: Radiology 1997 Apr;203(1):10–2.

Xanthogranulomatous cholecystitis versus gallbladder carcinoma [editorial; comment] Ros PR, et al. **Radiology** 1997 Apr;203(1):10–2. Comment on: Radiology 1997 Apr;203(1):93–7.

[Differential diagnosis of multiple pulmonary coin lesions––pulmonary hyaline granuloma] Banaschak S, et al. **Pneumologie** 1996 Feb;50(2):211–4 (Eng. Abstr.) **(Ger)**

[Unusual computerized tomography finding of hepato–splenic granuloma in a case of sarcoidosis] Calculli L, et al. **Radiol Med (Torino)** 1996 Dec;92(6):808–9 **(Ita)**

[The computerized tomography halo sign in a case of productive granulomatous pulmonary tuberculosis without intra and/or extralesional hemorrhage] Sbragia P, et al. **Radiol Med (Torino)** 1996 Nov;92(5):649–50 **(Ita)**

SURGERY

Petrous apex cholesterol granulomas: evolution and management. Eisenberg MB, et al. **J Neurosurg** 1997 May; 86(5):822–9

Cholesterol granuloma of the petrous apex: establishment of a drainage route into the superior tympanic cavity––technical note. Kamiguchi H, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):662–5

Xanthogranuloma with massive hematoma in the third ventricle: case report. Tomita H, et al. **Neurosurgery** 1996 Sep;39(3):591–4

Sarcoidosis of the nose treated with laser surgery. Frederiksen LG, et al. **Rhinology** 1996 Dec;34(4):245–6

Intracranial fungal granuloma. Sharma BS, et al. **Surg Neurol** 1997 May;47(5):489–97

[Cholesterol granuloma of the petrous apex––etiology, diagnosis and therapy] Lorenz KJ, et al. **Laryngorhinootologie** 1996 Dec;75(12):775–82 (33 ref.) (Eng. Abstr.) **(Ger)**

[Tympanoplasty on only hearing ears] Sakagami M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul;99(7):973–7 (Eng. Abstr.) **(Jpn)**

[Skull base aspergillosis granuloma originating from the sphenoid sinus: a case report] Yamamoto H, et al. **No Shinkei Geka** 1997 May;25(5):433–6 (Eng. Abstr.) **(Jpn)**

THERAPY

Response of sporotrichosis granuloma to local application of iodine. Ramfrez Schon G, et al. **Bol Asoc Med P R** 1996 Jul–Sep;88(7–9):55–6

Granuloma faciale: successful treatment of nine cases with a combination of cryotherapy and intralesional corticosteroid injection. Dowlati B, et al. **Int J Dermatol** 1997 Jul;36(7):548–51

Intubation granuloma of the larynx. Newman JP, et al. **Otolaryngol Head Neck Surg** 1996 Oct;115(4):371

Nasosinusal fungal granuloma––clinical profile. Andrews G, et al. **Singapore Med J** 1996 Oct;37(5):470–4

ULTRASONOGRAPHY

Transrectal ultrasound appearance of prostatic granulomas secondary to bacillus Calmette–Guerin instillation. Terris MK, et al. **J Urol** 1997 Jul;158(1):126–7

[Color Doppler echography in the diagnosis of nonspecific granulomatous prostatis: personal experience] Vespasiani G, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):57–60 (Eng. Abstr.) **(Ita)**

VETERINARY

Histologic study of hepatic lesions in two turkey flocks. Beasley JN, et al. **Avian Dis** 1997 Apr–Jun;41(2):347–53

Dermatitis in young Florida sandhill cranes (Grus canadensis pratensis) due to infestation by the chigger, Blankaartia sinnamaryi. Spalding MG, et al. **J Parasitol** 1997 Aug; 83(4):768–71

Sperm granuloma in the dog: complication of vasectomy. Mayenco Aguirre AM, et al. **J Small Anim Pract** 1996 Aug;

37(8):392–3
Pyogranulomatous peritonitis associated with Nocardia sp.–like organisms in a raccoon (Procyon lotor). Hamir AN, et al. **J Wildl Dis** 1996 Apr;32(2):373–5
Diagnostic exercise: granulomatous encephalitis in guinea pigs. Wan CH, et al. **Lab Anim Sci** 1996 Apr;46(2):228–30
Actinobacillus lignieresi infection in camels on the Sokoto plains, Nigeria. Daneji AI, et al.
Trop Anim Health Prod 1996 Nov;28(4):315–6

VIROLOGY

Detection and comparative analysis of persistent measles virus infection in Crohn's disease by immunogold electron microscopy. Daszak P, et al. **J Clin Pathol** 1997 Apr; 50(4):299–304
Herpes zoster sine herpete. A potential cause of iridoplegic granulomatous iridocyclitis. Schwab IR. **Ophthalmology** 1997 Sep;104(9):1421–5

GRANULOMA ANNULARE

CHEMICALLY INDUCED

[Granuloma annulare disseminatum as a rare side effect of allopurinol (letter; comment)] Brechtel B, et al.
Hautarzt 1996 Feb;47(2):143. Comment on: Hautarzt 1995 May;46(5):343–5. **(Ger)**

COMPLICATIONS

Subcutaneous granuloma annulare in a patient with rheumatoid arthritis and diabetes mellitus. Tam MM, et al. **Australas J Dermatol** 1996 Nov;37(4):199–201 (8 ref.)
Laboratory abnormalities in granuloma annulare: a case–control study [letter] Veraldi S, et al.
Br J Dermatol 1997 Apr;136(4):652–3
Granuloma annulare–like lesions and secondary hyperparathyroidism. Mautner GH, et al. **Cutis** 1996 Mar; 57(3):172–4
Systemic scleroderma and perforating granuloma annulare: differential diagnosis from calcinosis. Tajima S, et al.
Dermatology 1996;192(3):271–3
Papular umbilicated granuloma annulare in association with Alagille syndrome. Kibarian MA, et al. **Int J Dermatol** 1997 Mar;36(3):207–9
Granuloma annulare associated with Hodgkin's disease. Setoyama M, et al. **Int J Dermatol** 1997 Jun;36(6):445–8

DIAGNOSIS

[Unusual circinary variant of generalized granuloma anulare] Fölster–Holst R, et al. **Hautarzt** 1996 Jan;47(1):53–57 (Eng. Abstr.) **(Ger)**
[Pseudorheumatoid nodules of the eyelids (granuloma annulare of the nodular type)] Asano N, et al.
Klin Monatsbl Augenheilkd 1996 Oct;209(4):259–60 **(Ger)**

DRUG THERAPY

Anti–oxidative therapy with oral dapsone improved HCV antibody positive annular elastolytic giant cell granuloma. Igawa K, et al. **J Dermatol** 1997 May;24(5):328–31

ETIOLOGY

Precipitating factors and associated diseases in 84 patients with granuloma annulare: a retrospective study. Studer EM, et al. **Dermatology** 1996;193(4):364–8

GENETICS

Quantification of Pro alpha 1(I) collagen mRNA in skin biopsy specimens: levels of transcription in normal skin and in granuloma annulare. Tasanen K, et al.
J Invest Dermatol 1996 Sep;107(3):314–7

PATHOLOGY

Generalized granuloma annulare showing the unusual clinical feature of marked swelling of the hands [letter] Kunigvki S, et al. **Acta Derm Venereol** 1996 May;76(3):255–6
Granuloma annulare: clinical and laboratory findings in a pediatric group of patients [letter] Patrizi A, et al.
Acta Derm Venereol 1996 Jul;76(4):326–8
Granuloma annulare–like lesions and secondary hyperparathyroidism. Mautner GH, et al. **Cutis** 1996 Mar; 57(3):172–4
Granuloma annulare in a patient with malignant lymphoma. Ono H, et al. **Dermatology** 1997;195(1):46–7
Epithelioid sarcoma masquerading as perforating granuloma annulare [letter] Lopez–Rios F, et al. **Histopathology** 1997 Jul;31(1):102–3
Perforating granuloma annulare. Penas PF, et al.
Int J Dermatol 1997 May;36(5):340–8 (65 ref.)
Granuloma annulare. Smith MD, et al. **Int J Dermatol** 1997 May;36(5):326–33 (31 ref.)
Mitotic granuloma annulare: a clinicopathologic study of 20 cases. Trotter MJ, et al. **J Cutan Pathol** 1996 Dec; 23(6):537–45
Papular eruption on the elbows and trunk in an infant [clinical conference] Patrizi A, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):151–3

PHYSIOPATHOLOGY

Precipitating factors and associated diseases in 84 patients with granuloma annulare: a retrospective study. Studer EM, et al. **Dermatology** 1996;193(4):364–8

SURGERY

Surgical pearl: surgical treatment of tumor–sized granuloma annulare of the fingers. Shelley WB, et al.
J Am Acad Dermatol 1997 Sep;37(3 Pt 1):473–4

THERAPY

Perforating granuloma annulare. Penas PF, et al.
Int J Dermatol 1997 May;36(5):340–8 (65 ref.)
Granuloma annulare. Smith MD, et al. **Int J Dermatol** 1997 May;36(5):326–33 (31 ref.)

GRANULOMA, EOSINOPHILIC see **EOSINOPHILIC GRANULOMA**

GRANULOMA, FOREIGN-BODY

Gallstones implanting in the ovary. A complication of laparoscopic cholecystectomy. Vadlamudi G, et al.
Arch Pathol Lab Med 1997 Feb;121(2):155–8

CHEMICALLY INDUCED

Intracranial foreign–body granuloma caused by oxidized cellulose. Hara N. **Acta Neurochir (Wien)** 1996; 138(12):1468–9
Disseminated lipogranulomas and sudden death from self–administered mineral oil injection. Rollins CE, et al.
Am J Forensic Med Pathol 1997 Mar;18(1):100–3
Baker's pseudocyst in the prosthetic knee affected with aggressive granulomatosis caused by polyethylene wear. Segura J, et al. **Chir Organi Mov** 1996 Sep–Dec;81(4):421–6 **(Eng, Ita)**
[Paraffinoma of the penis] Gfesser M, et al. **Hautarzt** 1996 Sep;47(9):705–7 (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Probable association between hidradenitis suppurativa and Crohn's disease: significance of epithelioid granuloma. Roy MK, et al. **Br J Surg** 1997 Mar;84(3):375–6
Necrobiosis lipoidica and silicotic granulomas on Muller's phlebectomy scars. Vion B, et al. **Dermatology** 1997; 194(1):55–8

DIAGNOSIS

Clinicopathological consultation. Ear cholesteatoma versus cholesterol granuloma. Ferlito A, et al.
Ann Otol Rhinol Laryngol 1997 Jan;106(1):79–85 (39 ref.)
Foreign body granuloma simulating solid neoplasm on MR. Karcnik TJ, et al. **Clin Imaging** 1997 Jul–Aug;21(4):269–72
Cholesterol granuloma. DeGuine C, et al.
Ear Nose Throat J 1996 Apr;75(4):190
The value of MRI in silicone granuloma of the breast. Helbich TH, et al. **Eur J Radiol** 1997 Feb;24(2):155–8
Misdiagnosis of cancer due to multiple glove powder granulomas. Giercksky KE. **Eur J Surg Suppl** 1997; (579):11–4
Suture granuloma in rectal anastomosis mistaken for locally recurrent cancer. Hizawa K, et al. **J Clin Gastroenterol** 1996 Jul;23(1):78–9
Suture granuloma mimicking a lumbar disc recurrence. Case illustration. Ziyal IM, et al. **J Neurosurg** 1997 Sep;87(3):473

DRUG THERAPY

Anti–inflammatory activity of Salacia oblonga Wall. and Azima tetracantha Lam. Ismail TS, et al.
J Ethnopharmacol 1997 Apr;56(2):145–52

ETIOLOGY

Extraosseous granuloma after total knee arthroplasty—a case report. Wang CJ, et al. **Acta Orthop Scand** 1997 Aug; 68(4):404–5
Orbital avitene granuloma formation after enucleation for intraocular retinoblastoma. Abramson DH, et al.
Am J Ophthalmol 1997 Apr;123(4):567–9
Sclerosing lipogranuloma of the scrotum following a laparoscopic herniorraphy and varicocelectomy—a case report. Baladas HG, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):238–40 (4 ref.)
Granulomatous contact dermatitis due to gold earrings. Armstrong DK, et al. **Br J Dermatol** 1997 May; 136(5):776–8
Bee–sting granulomas in the skin [letter] Lee CW, et al.
Dermatology 1996;193(4):355–6
Absence of skin sensitivity to oxides of aluminium, silicon, titanium or zirconium in patients with Crohn's disease [see comments] Lee JC, et al. **Gut** 1996 Aug;39(2):231–3. Comment in: Gut 1996 Aug;39(2):340–1.
Massive osteolysis induced by high molecular weight polyethylene wear debris. Nizegorodcew T, et al.
Int Orthop 1997;21(1):14–8
Pelvic mass caused by polyethylene wear after uncemented total hip arthroplasty. Wang JW, et al. **J Arthroplasty** 1996 Aug;11(5):626–8
Suture granuloma mimicking a lumbar disc recurrence. Case illustration. Ziyal IM, et al. **J Neurosurg** 1997 Sep;87(3):473
Intratracheal granuloma formation: a late complication of Marlex mesh splinting for tracheomalacia. Fitzgerald PG, et al. **J Pediatr Surg** 1996 Nov;31(11):1568–9
Inguinal lymph node foreign body granulomas after placement of a silicone rubber (Silflex) implant of the first metatarsophalangeal joint. McNearney T, et al.
J Rheumatol 1996 Aug;23(8):1449–52
Polytetrafluoroethylene giant granuloma and adenopathy: long–term complications following subureteral polytetrafluoroethylene injection for the treatment of vesicoureteral reflux in children. Aragona F, et al.
J Urol 1997 Oct;158(4):1539–42 (41 ref.)
Case report of granulomatous peritonitis due to foreign body (talc). Fukushima H, et al. **Kurume Med J** 1996;43(3):219–21
Sarcoid–like foreign body reaction in body piercing: a report of two cases. Ng KH, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Jul;84(1):28–31 (11 ref.)
Intrathecal granuloma after implantation of a morphine pump: case report and review of the literature. Bejjani GK, et al. **Surg Neurol** 1997 Sep;48(3):288–91 (23 ref.)
Extensive peritoneal histiocytic reaction to oxidized regenerated cellulose. González–Cámpora R, et al.
Surgery 1997 Apr;121(4):471–3
[A puzzling case. Migration of a foreign body from one breast to the other (letter)] Granier JP, et al. **J Chir (Paris)** 1996 Sep;133(6):287–9 **(Fre)**
[An operative case of suture–granuloma which resulted from an intra–pulmonary treatment 10 years ago and manifested hemoptysis] Baba K, et al. **Kyobu Geka** 1996 Nov; 49(12):1048–51 (Eng. Abstr.) **(Jpn)**
[Scrotal granuloma caused by oil migrating from the hip in 2 transsexual males (scrotal sclerosing lipogranuloma)] Fariña LA, et al. **Arch Esp Urol** 1997 Jan–Feb;50(1):51–3 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

[The sensitizing role of the anti–idiotypic monoclonal antibody–NP30 of Schistosoma japonicum in egg granuloma formation] Feng Z, et al.
Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih 1995;13(4):249–54 (Eng. Abstr.) **(Chi)**

METABOLISM

Sequential development of angiotensin receptors and angiotensin I converting enzyme during angiogenesis in the rat subcutaneous sponge granuloma. Walsh DA, et al.
Br J Pharmacol 1997 Apr;120(7):1302–11

PATHOLOGY

Intracranial foreign–body granuloma caused by oxidized cellulose. Hara N. **Acta Neurochir (Wien)** 1996; 138(12):1468–9
Pathologic quiz case 2. Teflon granuloma. McAlpin CM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):231, 233
A conjunctival synthetic fibre granuloma in a child [letter] Yang YF, et al. **Eye** 1996;10 (Pt 1):143–5
Silicone granuloma in acral skin in a patient with silicone–gel breast implants and systemic sclerosis. Anderson DR, et al. **Int J Dermatol** 1996 Jan;35(1):36–8
Paraffinoma revisited: a post–operative condition following rhinoplasty nasal packing. Montgomery PQ, et al.
J Laryngol Otol 1996 Aug;110(8):785–6
Transmural migration of a retained surgical sponge into the intestinal lumen: an experimental study.
Wattanasirichaigoon S. **J Med Assoc Thai** 1996 Jul; 79(7):415–22
More on reaction to a foreign body after hip replacement [letter; comment] Jacobs JJ, et al. **N Engl J Med** 1996 Nov 28;335(22):1690–1. Comment on: N Engl J Med 1996 Jul 11;335(2):133–4.
[Systemic granulomatous reaction in hip prosthesis. Apropos of 2 anatomoclinical cases] Peoc'h M, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(6):564–7 (Eng. Abstr.) **(Fre)**

RADIONUCLIDE IMAGING

Aggressive granulomatosis causing a painful hip arthroplasty. Findings on bone and Ga–67 imaging. Gayle EL, et al.
Clin Nucl Med 1996 Apr;21(4):337–9

SURGERY

Immediate reaugmentation of the breasts using bilaterally divided TRAM flaps after removing injected silicone gel and granulomas. Aoki R, et al. **Aesthetic Plast Surg** 1997 Jul–Aug;21(4):276–9
Gastric outlet obstruction due to starch granuloma and peritonitis. Steiner Z, et al. **Eur J Pediatr Surg** 1996 Dec; 6(6):364–6
Cholesterol granulomas of the petrous apex: combined neurosurgical and otological management. Brodkey JA, et al. **J Neurosurg** 1996 Oct;85(4):625–33
[An operative case of cholesterol granuloma of the petrous apex] Saino M, et al. **No Shinkei Geka** 1996 Nov; 24(11):1041–4 (Eng. Abstr.) **(Jpn)**

THERAPY

Bee–sting granulomas in the skin [letter] Lee CW, et al.
Dermatology 1996;193(4):355–6
Problems with the retrieval of long–standing inhaled foreign

bodies in children. Barbato A, et al.
Monaldi Arch Chest Dis 1996 Oct;51(5):419–20

GRANULOMA GANGRAENESCENS see **GRANULOMA, LETHAL MIDLINE**

GRANULOMA, GIANT CELL

Aggressive giant cell reparative granuloma of the metacarpal: a case report. Giza E, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):732–6

A case of giant cell reparative granuloma of the petrous bone: demonstration of the proliferative component. Maruno M, et al. **Surg Neurol** 1997 Jul;48(1):64–8

COMPLICATIONS

Tumor-induced osteomalacia associated with lesions in the oral and maxillofacial region: report of two cases. Kim YG, et al. **J Oral Maxillofac Surg** 1996 Nov;54(11):1352–7

Recurrent peripheral giant cell granuloma associated with cervical resorption. Nedir R, et al. **J Periodontol** 1997 Apr; 68(4):381–4

DIAGNOSIS

Giant cell reparative granuloma of the cranial vault. Uchino A, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1791–3

The diagnosis and treatment of central giant cell granuloma. Roberson JB, et al. **J Am Dent Assoc** 1997 Jan;128(1):81–4 (13 ref.)

Solid variant of an aneurysmal bone cyst (giant cell reparative granuloma) of the 3rd lumbar vertebra. Sato K, et al.
Nagoya J Med Sci 1996 Dec;59(3–4):159–65 (22 ref.)

[Central (reparative) giant cell granuloma of the paranasal sinus] Ostertag P, et al. **Laryngorhinootologie** 1996 Oct; 75(10):619–22 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Anti-oxidative therapy with oral dapsone improved HCV antibody positive annular elastolytic giant cell granuloma. Igawa K, et al. **J Dermatol** 1997 May;24(5):328–31

[Calcitonin therapy in large or recurrent central giant cell granulomas of the lower jaw] Rosenberg AJ, et al.
Ned Tijdschr Geneeskd 1997 Feb 15;141(7):335–9 (Eng. Abstr.) **(Dut)**

[Medical parathyroidectomy. Its efficacy in treatment of lower maxillary brown tumor] Graciela Garcia M, et al. **Medicina (B Aires)** 1996;56(1):59–62 (Eng. Abstr.) **(Spa)**

ETIOLOGY

[Brown tumor of the jaws] Tarello F, et al.
Minerva Stomatol 1996 Oct;45(10):465–70 (17 ref.) (Eng. Abstr.) **(Ita)**

PATHOLOGY

Giant cell reparative granuloma of the maxilla. Spraggs PD, et al. **Ear Nose Throat J** 1997 Jul;76(7):445–6, 449

A conjunctival synthetic fibre granuloma in a child [letter] Yang YF, et al. **Eye** 1996;10 (Pt 1):143–5

Hybrid central giant cell granuloma and central odontogenic fibroma-like lesions of the jaws. Odell EW, et al.
Histopathology 1997 Feb;30(2):165–71

Intravascular fibrin thrombi and endothelial cell damage in central giant cell granuloma. el-Labban NG.
J Oral Pathol Med 1997 Jan;26(1):1–5

PCNA and Ki-67 immunoreactivity in multinucleated cells of giant cell fibroma and peripheral giant cell granuloma. Mighell AJ, et al. **J Oral Pathol Med** 1996 May;25(5):193–9

Central giant cell granulomas of the jaws: phenotype and proliferation-associated markers. O'Malley M, et al.
J Oral Pathol Med 1997 Apr;26(4):159–63

Growth potential of peripheral giant cell granuloma. Bodner L, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 May;83(5):548–51

[Elastolysis of the mid-dermis and annular elastolytic giant cell granuloma: different stages in the clinical spectrum of dermal elastolysis? Case report and review of the literature] Hohenleutner S, et al. **Hautarzt** 1997 Jan; 48(1):45–50 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Radiologic features of central giant cell granuloma of the jaws. Kaffe I, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Jun;81(6):720–6

SURGERY

Giant cell reparative granuloma: presentation of one case and review of the literature. Poli G, et al.
Chir Organi Mov 1996 Apr–Jun;81(2):217–21 (10 ref.) **(Eng, Ita)**

The diagnosis and treatment of central giant cell granuloma. Roberson JB, et al. **J Am Dent Assoc** 1997 Jan;128(1):81–4 (13 ref.)

GRANULOMA, GIANT CELL REPARATIVE see **GRANULOMA, GIANT CELL**

GRANULOMA, HODGKIN'S see **HODGKIN'S DISEASE**

GRANULOMA INGUINALE

Donovanosis. Hart G. **Clin Infect Dis** 1997 Jul;25(1):24–30; quiz 31–2 (89 ref.)

COMPLICATIONS

Granuloma inguinale and HIV: a unique presentation and novel treatment regimen. Manders SM, et al.
J Am Acad Dermatol 1997 Sep;37(3 Pt 1):494–6

DRUG THERAPY

Failure of trimethoprim in the treatment of donovanosis [letter] Birthistle K, et al. **Genitourin Med** 1997 Jun; 73(3):224–5

Donovanosis: treatment with azithromycin. Arévalo Morles C, et al. **Int J STD AIDS** 1997 Jan;8(1):54–6

Donovanosis: sequelae of severe disease and successful azithromycin treatment. Mein J, et al. **Int J STD AIDS** 1996 Oct;7(6):448–51

EPIDEMIOLOGY

Sexually transmitted diseases in South Africa: epidemic donovanosis in Durban? [letter; comment] O'Farrell N, et al. **Genitourin Med** 1997 Feb;73(1):76. Comment on: Genitourin Med 1996 Jun;72(3):160–71.

MICROBIOLOGY

Amplification of Klebsiella-like sequences from biopsy samples from patients with donovanosis. Bastian I, et al.
Clin Infect Dis 1996 Dec;23(6):1328–30

Growth and cultural characteristics of Calymmatobacterium granulomatis—the aetiological agent of granuloma inguinale (Donovanosis). Kharsany AB, et al.
J Med Microbiol 1997 Jul;46(7):579–85

PATHOLOGY

Granuloma inguinale: first case reported in the last four decades in China [letter] Gao Y, et al. **Int J Dermatol** 1996 Oct;35(10):758–9

GRANULOMA, LARYNGEAL

DIAGNOSIS

[Chronic voice stress. Etiology, sequelae and therapeutic possibilities] Grevers G. **Fortschr Med** 1997 Jun 20; 115(17):35–6 **(Ger)**

PATHOLOGY

Multiple recurrent laryngeal granulomas. Sataloff RT, et al. **Ear Nose Throat J** 1997 May;76(5):292

THERAPY

[Follow-up of patients with laryngeal contact granuloma] Kiese-Himmel C, et al. **HNO** 1997 May;45(5):389–95 (Eng. Abstr.) **(Ger)**

GRANULOMA, LETHAL MIDLINE

DIAGNOSIS

Idiopathic midline granuloma—current classification and management controversies. Graper RG, et al.
Ann Plast Surg 1996 Nov;37(5):532–7

Sinonasal T-cell lymphoma in the differential diagnosis of lethal midline granuloma using in situ hybridization for Epstein-Barr virus RNA. Dictor M, et al. **Mod Pathol** 1996 Jan;9(1):7–14

PATHOLOGY

Angiocentric T-cell lymphoma presenting as lethal midline granuloma. Lee PY, et al. **Int J Dermatol** 1997 Jun; 36(6):419–27 (37 ref.)

Idiopathic midline destructive disease involving the paranasal sinuses and middle ear. Nishizaki K, et al.
Otolaryngol Head Neck Surg 1997 Apr;116(4):548–50

[Two cases of lethal midline granuloma thought to be of natural killer cell origin] Tamura S, et al.
Nippon Jibiinkoka Gakkai Kaiho 1996 Jan;99(1):46–53 (Eng. Abstr.) **(Jpn)**

[On classification of changes in necrotizing lesions of the midface] Szyfter W, et al. **Otolaryngol Pol** 1996; 50(2):207–20 (20 ref.) (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

Patient-administered sphenopalatine ganglion block. Saade E, et al. **Reg Anesth** 1996 Jan–Feb;21(1):68–70

RADIOTHERAPY

Treatment of lethal midline granuloma type nasal T-cell lymphoma. Sakata K, et al. **Acta Oncol** 1997;36(3):307–11

Experience of radiotherapy in lethal midline granuloma with special emphasis on centrofacial T-cell lymphoma: a retrospective analysis covering a 34-year period. Chen HH, et al. **Radiother Oncol** 1996 Jan;38(1):1–6

VIROLOGY

Sinonasal T-cell lymphoma in the differential diagnosis of lethal midline granuloma using in situ hybridization for Epstein-Barr virus RNA. Dictor M, et al. **Mod Pathol** 1996 Jan;9(1):7–14

GRANULOMA, MALIGNANT see **HODGKIN'S DISEASE**

GRANULOMA, PERIAPICAL see **PERIAPICAL GRANULOMA**

GRANULOMA, PLASMA CELL

Plasma cell granulomas of the brain: pediatric case presentation and review of the literature. Tresser N, et al.
Childs Nerv Syst 1996 Jan;12(1):52–7 (43 ref.)

Inflammatory (pseudosarcomatous) myofibroblastic tumor of the bladder. Lakshmanan Y, et al. **Urology** 1997 Aug; 50(2):285–8

[Plasma-cell granuloma of the sigmoid colon concomitant with adenocarcinoma of the cecum. Viewpoint for debate, literature review on pseudotumors, idiopathic colitis and cancer] De Monti M, et al. **Ann Ital Chir** 1997 Mar–Apr; 68(2):245–51 (55 ref.) (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Pelvic inflammatory pseudotumor with central infectious abscess: a case report. Han CP, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1996 Nov;58(5):374–9

Actinomycosis and plasma cell granuloma, coincidence or coexistence: patient report and review of the literature. Dweik RA, et al. **Clin Pediatr (Phila)** 1997 Apr; 36(4):229–33 (44 ref.)

Inflammatory pseudotumour and Rosai-Dorfman disease of soft tissue [letter] Nayler SJ, et al. **J Clin Pathol** 1997 Jul; 50(7):620–1

Critical commentary to "coexistence of plasma cell granulomas of lung and central nervous system" [comment] Gullotta F. **Pathol Res Pract** 1995 Oct;191(10):1046. Comment on: Pathol Res Pract 1995 Oct;191(10):1038–45.

Coexistence of plasma cell granulomas of lung and central nervous system [see comments] Le Marchadour F, et al.
Pathol Res Pract 1995 Oct;191(10):1038–45. Comment in: Pathol Res Pract 1995 Oct;191(10):1046. Comment in: Pathol Res Pract 1995 Oct;191(10):1047.

Critical commentary to "coexistence of plasma cell granulomas of lung and central nervous systems" [comment] Müller KM, et al. **Pathol Res Pract** 1995 Oct; 191(10):1047–8. Comment on: Pathol Res Pract 1995 Oct;191(10):1038–45.

Endobronchial inflammatory pseudotumour exacerbating asthma. Jayne D, et al. **Postgrad Med J** 1997 Feb; 73(856):98–9

[A case of plasma cell granuloma associated with cerebral infarction] Konishi H, et al. **Rinsho Shinkeigaku** 1996 Jul; 36(7):854–7 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Inflammatory pseudotumor of the choroid plexus. Bramwit M, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1307–9

Author's correction. Inflammatory pseudotumor of the liver: ct and sonographic findings [letter] Nam KJ, et al.
AJR Am J Roentgenol 1996 Dec;167(6):1598

Pediatric inflammatory pseudotumor of the stomach: contrast-enhanced CT and MR imaging findings. Taratuta E, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):919–20

Focal myositis of esophagus: a distinct inflammatory pseudotumor mimicking esophageal malignancy. Chiang IP, et al. **Am J Gastroenterol** 1997 Jan;92(1):174–5

Inflammatory pseudotumor of the terminal ileum mimicking malignancy in a patient with Behçet's disease. CT and pathological findings. Pretorius ES, et al. **Clin Imaging** 1996 Jul–Sep;20(3):191–3

Inflammatory pseudotumor presenting as fever of unknown origin. Fisher RG, et al. **Clin Infect Dis** 1995 Dec; 21(6):1492–4 (18 ref.)

Malignant fibrous histiocytoma of the lung in a child. An unusual neoplasm that can mimick inflammatory pseudotumour. Nistal M, et al. **Eur J Pediatr** 1997 Feb; 156(2):107–9

Inflammatory pseudotumor of the epididymis. Brauers A, et al. **Eur Urol** 1997;32(2):253–5

Inflammatory pseudotumor of the liver presenting as incidentaloma: report of a case and review of the literature. Schmid A, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):1009–14 (9 ref.)

Inflammatory pseudotumour of liver—a case report. Gosavi A, et al. **Indian J Pathol Microbiol** 1997 Jan;40(1):81–3

Plasma cell granuloma [letter; comment] Guha D, et al.
Indian J Pathol Microbiol 1995 Jul;38(3):328. Comment on: Indian J Pathol Microbiol 1994 Apr;37(2):215–20.

Abdominal inflammatory myofibroblastic tumors in children: report of an appendiceal case and review of the literature. Bonnet JP, et al. **J Pediatr Surg** 1996 Sep;31(9):1311–4 (28 ref.)

Retroperitoneal actinomycosis masquerading as inflammatory pseudotumor. Radhi J, et al. **J Pediatr Surg** 1997 Apr; 32(4):618–20

Pseudotumour of the bladder. Sandhu SS, et al.
J R Soc Med 1997 Jan;90(1):46–7

Intracranial plasma cell granuloma. Breidahl WH, et al.
Neuroradiology 1996 May;38 Suppl 1:S86–9

Pseudoepitheliomatous hyperplasia in Mycobacterium

ulcerans infection. Hayman JA, et al. **Pathology** 1996 May; 28(2):131–4
Extraperitoneal abdominopelvic inflammatory pseudotumor: report of four cases. Jimenez JM, et al. **Pediatr Radiol** 1997 Feb;27(2):170–4
Inflammatory pseudotumor of the spleen in a young child. Aru GM, et al. **Pediatr Surg Int** 1997 Apr;12(4):299–301 (27 ref.)
Pseudotumor and arthropathy in the knees of a hemophiliac. Gaary E, et al. **Skeletal Radiol** 1996 Jan;25(1):85–7 (18 ref.)
Inflammatory pseudotumor of the liver: report of a case and review of the literature. Uetsuji S, et al. **Surg Today** 1996; 26(7):517–21 (12 ref.)
[Inflammatory pseudotumor of the liver—rare differential diagnosis of undetermined hepatic space-occupying lesion. Case report and review of the literature] Mathiak G, et al. **Langenbecks Arch Chir** 1996;381(6):309–17 (69 ref.) (Eng. Abstr.) **(Ger)**
[Inflammatory mediastinal pseudotumor. Report of a case] Drago A, et al. **Radiol Med (Torino)** 1996 Nov;92(5):651–3 **(Ita)**

ETIOLOGY

Inflammatory pseudotumour and Rosai–Dorfman disease of soft tissue: a histological continuum? Govender D, et al. **J Clin Pathol** 1997 Jan;50(1):79–81
Inflammatory pseudotumor of the liver associated with extrahepatic infection. White JE, et al. **South Med J** 1997 Jan;90(1):23–9 (48 ref.)
[A case of inflammatory pseudotumor of the lung with suppressed immune response in the patient with renal cell carcinoma after nephrectomy and administration of interferon] Fukushima M, et al. **Kyobu Geka** 1996 Jul; 49(7):595–8 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Inflammatory pseudotumour of the liver. Kafeel G, et al. **J Clin Pathol** 1997 Apr;50(4):352–3

PATHOLOGY

Recurrent inflammatory myofibroblastic tumor of the glottis mimicking malignancy. Corsi A, et al.
Am J Otolaryngol 1997 Mar–Apr;18(2):121–6
Inflammatory pseudotumor of nerve. Weiland TL, et al. **Am J Surg Pathol** 1996 Oct;20(10):1212–8 (17 ref.)
Bilateral plasma cell granuloma (inflammatory pseudotumour) of the breast. Yip CH, et al. **Aust N Z J Surg** 1997 May;67(5):300–2
Progression of inflammatory myofibroblastic tumor (inflammatory pseudotumor) of soft tissue into sarcoma after several recurrences. Donner LR, et al.
Hum Pathol 1996 Oct;27(10):1095–8
Inflammatory pseudotumor of lymph nodes: a study of 25 cases with emphasis on morphological heterogeneity. Moran CA, et al. **Hum Pathol** 1997 Mar;28(3):332–8
Inflammatory pseudotumour of the liver with malignant transformation. Report of two cases. Zavaglia C, et al. **Ital J Gastroenterol** 1996 Apr;28(3):152–9 (43 ref.)
Inflammatory pseudotumor of the ureter. Nozawa M, et al. **J Urol** 1997 Mar;157(3):945
Intracranial plasma-cell granuloma: a case report. Hirohata M, et al. **Noshuyo Byori** 1996 Nov;13(2):133–8 (20 ref.)
Oral inflammatory pseudotumour: immunohistochemical investigation of a case involving the submandibular gland and review of the literature. Monteil RA, et al.
Oral Oncol 1997 May;33(3):215–9 (42 ref.)
Calcifying fibrous pseudotumor. Fukunaga M, et al. **Pathol Int** 1997 Jan;47(1):60–3
Inflammatory pseudotumor of the breast. Chetty R, et al. **Pathology** 1997 Aug;29(3):270–1
Pseudoepitheliomatous hyperplasia in Mycobacterium ulcerans infection. Hayman JA, et al. **Pathology** 1996 May; 28(2):131–4
[Inflammatory pseudotumor of the urinary bladder. Study of 4 cases and review of the literature] Foschini MP, et al. **Pathologica** 1995 Dec;87(6):653–8 (26 ref.) (Eng. Abstr.) **(Ita)**
[A case of multifocal inflammatory pseudotumor of the liver] Trombetta G, et al. **Pathologica** 1997 Feb;89(1):69–76 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Plasma cell granuloma of the pancreas: CT findings. Qanadli SD, et al. **J Comput Assist Tomogr** 1997 Sep–Oct; 21(5):735–6
[A case of inflammatory pseudotumor of the liver with interesting CT finding] Inouye T, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Oct;93(10):747–52 **(Jpn)**

SURGERY

The surgical management of lacrimal gland pseudotumors. Mombaerts I, et al. **Ophthalmology** 1996 Oct; 103(10):1619–27
Inflammatory pseudotumor of the retroperitoneum in a child. Gignoux B, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):443–5
[Inflammatory pseudotumor of the parotid gland] Hellín Meseguer D, et al. **An Otorrinolaringol Ibero Am** 1996; 23(6):631–40 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

[Multiple fibrous pseudotumor of the great omentum] Kovács T, et al. **Orv Hetil** 1996 Oct 20;137(42):2317–9 (Eng. Abstr.) **(Hun)**

VIROLOGY

Inflammatory pseudotumor of epididymis and Epstein–Barr virus: a study of two cases. Chan KW, et al. **Pathology** 1997 Feb;29(1):100–1

GRANULOMA, PLASMA CELL, ORBITAL

CHEMICALLY INDUCED

Polyarthropathy, orbital myositis and posterior scleritis: an unusual adverse reaction to influenza vaccine. Thurairajan G, et al. **Br J Rheumatol** 1997 Jan;36(1):120–3

COMPLICATIONS

Pseudotumor associated with CNS lymphoma. Hudson HL, et al. **J Neuroophthalmol** 1996 Sep;16(3):208–11
Cystoid macular edema as an initial symptom of inflammatory orbital pseudotumor. Igarashi H, et al. **Ophthalmologica** 1997;211(4):236–41
[A case of orbital myositis with blepharoptosis demonstrating the swelling of superior levator palpebrae muscle on magnetic resonance images] Minohara M, et al.
Rinsho Shinkeigaku 1996 Jun;36(6):786–9 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Pseudotumor of the orbit. Weber AL, et al.
Neuroimaging Clin N Am 1996 Feb;6(1):73–92 (71 ref.)
Predictability of magnetic resonance imaging in differentiation of orbital lymphoma from orbital inflammatory syndrome. Cytryn AS, et al.
Ophthal Plast Reconstr Surg 1997 Jun;13(2):129–34
The role of proliferating cell nuclear antigen (PCNA) in differentiating idiopathic orbital inflammatory disease and lymphoid proliferations. Mauriello JA Jr, et al.
Ophthal Plast Reconstr Surg 1997 Mar;13(1):26–30
Orbital pseudotumors: value of short inversion time inversion-recovery MR imaging. Asao C, et al.
Radiology 1997 Jan;202(1):55–9
[Pseudotumoral tuberculous choroiditis] Stefan C, et al.
Oftalmologia 1997;41(1):22–5 (9 ref.) (Eng. Abstr.) **(Rum)**
[Anterior uveitis as the form of presentation of orbital pseudotumor in a child (letter)] Matesanz JL, et al.
Rev Clin Esp 1997 Jan;197(1):69–70 (6 ref.) **(Spa)**

DRUG THERAPY

Orbital pseudotumors treated with systemic corticosteroids [letter; comment] Jordan DR. **Ophthalmology** 1996 Oct; 103(10):1519; discussion 1520. Comment on:
Ophthalmology 1996 Mar;103(3):521–8.
Orbital pseudotumors treated with systemic corticosteroids [letter; comment] Wirostko BM, et al. **Ophthalmology** 1996 Oct;103(10):1519–20. Comment on: Ophthalmology 1996 Mar;103(3):521–8.

ETIOLOGY

[Inflammatory pseudotumor of the orbit and suspected sarcoidosis] Monfort-Gouraud M, et al. **Arch Pediatr** 1996 Jul;3(7):697–700 (Eng. Abstr.) **(Fre)**

PATHOLOGY

Idiopathic granulomatous orbital inflammation. Mombaerts I, et al. **Ophthalmology** 1996 Dec;103(12):2135–41
What is orbital pseudotumor? Mombaerts I, et al.
Surv Ophthalmol 1996 Jul–Aug;41(1):66–78 (139 ref.)

RADIOTHERAPY

Radiotherapy of pseudotumor orbitae. Notter M, et al.
Front Radiat Ther Oncol 1997;30:180–91

GRANULOMA, PLASMA CELL, PULMONARY

COMPLICATIONS

Endobronchial inflammatory pseudotumour in a patient with B-cell chronic lymphocytic leukemia and malignant pleural mesothelioma. Stappaerts I, et al. **Acta Clin Belg** 1996; 51(4):261–4 (8 ref.)
Critical commentary to "coexistence of plasma cell granulomas of lung and central nervous system" [comment] Gullotta F. **Pathol Res Pract** 1995 Oct;191(10):1046. Comment on: Pathol Res Pract 1995 Oct;191(10):1038–45.
Coexistence of plasma cell granulomas of lung and central nervous system [see comments] Le Marc'hadour F, et al. **Pathol Res Pract** 1995 Oct;191(10):1038–45. Comment in: Pathol Res Pract 1995 Oct;191(10):1046. Comment in: Pathol Res Pract 1995 Oct;191(10):1047.
Critical commentary to "coexistence of plasma cell granulomas of lung and central nervous systems" [comment] Müller KM, et al. **Pathol Res Pract** 1995 Oct; 191(10):1047–8. Comment on: Pathol Res Pract 1995 Oct;191(10):1038–45.
Inflammatory pseudotumour of the lung presenting as an airway obstructive syndrome. Calderazzo M, et al.
Respir Med 1997 Jul;91(6):381–4
[A case of plasma cell granuloma associated with cerebral infarction] Konishi H, et al. **Rinsho Shinkeigaku** 1996 Jul; 36(7):854–7 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Inflammatory pseudotumour of the lung presenting as multiple pulmonary nodules: case report. Kundu S, et al. **Can Assoc Radiol J** 1997 Feb;48(1):44–7
Case report: plasma cell granuloma of the lung. Scola AJ. **Del Med J** 1996 May;68(5):265–8 (20 ref.)
Inflammatory pulmonary pseudotumor in an adolescent. Podbielski FJ. **Lung Cancer** 1997 Mar;16(2–3):223–7
[Inflammatory pseudotumor—differential diagnosis in lung tumor in a child] Ryslev A, et al. **Ugeskr Laeger** 1997 Jun 9;159(24):3792–3 (Eng. Abstr.) **(Dan)**
[All lung tumors are not the same] Stolk J, et al.
Ned Tijdschr Geneeskd 1996 Nov 16;140(46):2261–2 **(Dut)**
[Pseudotumor form of pulmonary nocardia infection (Nocardia nova) in a renal transplant patient] Azouz S, et al. **Rev Mal Respir** 1996 Oct;13(5):513–5 (Eng. Abstr.) **(Fre)**
[Inflammatory lung pseudotumor] Franco GV, et al.
Rev Med Chil 1995 Sep;123(9):1133–6 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Schistosoma mansoni in IL-4-deficient mice. Pearce EJ, et al. **Int Immunol** 1996 Apr;8(4):435–44

THERAPY

[Diagnostic and therapeutic approach to plasma cell granuloma of the lung. Apropos of a case of favourable course under antibiotics] Piroth L, et al.
Rev Med Interne 1996;17(8):670–4 (32 ref.) (Eng. Abstr.) **(Fre)**

GRANULOMA, PSEUDOPYOGENIC see **ANGIOLYMPHOID HYPERPLASIA WITH EOSINOPHILIA**

GRANULOMA, PYOGENIC

Non-oral pyogenic granuloma in pregnancy: a report of two cases. Smulian JC, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):672–4

COMPLICATIONS

Pyogenic granuloma with multiple dissemination in a burn lesion. Ceyhan M, et al. **Pediatr Dermatol** 1997 May–Jun; 14(3):213–5

DIAGNOSIS

Thrombomodulin as a marker of vascular and lymphatic tumours. Appleton MA, et al. **Histopathology** 1996 Aug; 29(2):153–7
Clinical diagnosis and management of hormonally responsive oral pregnancy tumor (pyogenic granuloma). Sills ES, et al. **J Reprod Med** 1996 Jul;41(7):467–70 (30 ref.)
Severe bleeding from a pregnancy tumor. A case report. Wang PH, et al. **J Reprod Med** 1997 Jun;42(6):359–62
[Differential diagnosis of rapidly growing tumors—granuloma teleangiectaticum sive pyogenicum] Tost F. **Klin Monatsbl Augenheilkd** 1996 Aug–Sep; 209(2–3):174–5 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Oral pyogenic granuloma: a review of 38 cases from Ibadan, Nigeria. Lawoyin JO, et al. **Br J Oral Maxillofac Surg** 1997 Jun;35(3):185–9

ETIOLOGY

Pyogenic granuloma--an uncommon complication of nasal packing. Sheen TS, et al. **Am J Rhinol** 1997 May–Jun; 11(3):225–7
Pyogenic granuloma of cornea: a case report. Srinivasan S, et al. **Indian J Ophthalmol** 1996 Mar;44(1):39–40
Pyogenic granuloma. al-Towerki AA. **Int Ophthalmol** 1995–96;19(5):287–91
Pyogenic granuloma associated with guided tissue regeneration: a case report. Fowler EB, et al.
J Periodontol 1996 Oct;67(10):1011–5
A proliferative vascular tumour of the skin in a kidney-transplant recipient (recurrent pyogenic granuloma with satellitosis). Le Meur Y, et al.
Nephrol Dial Transplant 1997 Jun;12(6):1271–3
Endoscopic excision of a giant pyogenic granuloma of the nasal cavity caused by nasal packing. Bhattacharyya N, et al. **Rhinology** 1997 Mar;35(1):44–5

MICROBIOLOGY

Abscessed hydroxyapatite orbital implants. A report of two cases [see comments] Jordan DR, et al. **Ophthalmology** 1996 Nov;103(11):1784–7. Comment in: Ophthalmology 1997

Jul;104(7):1059.

PATHOLOGY

Intravascular lobular capillary haemangioma of the lip. Pesce C, et al. **Histopathology** 1996 Oct;29(4):382–4
Dynamic distribution of basic fibroblast growth factor during epulis formation: an immunohistochemical study in an enhanced healing process of the gingiva. Murata M, et al. **J Oral Pathol Med** 1997 May;26(5):224–32
Pyogenic granulomas of the cornea. Cameron JA, et al. **Ophthalmology** 1995 Nov;102(11):1681–7
[Recurrent pyogenic granuloma or Warner and Wilson–Jones syndrome] Senser M, et al. **Arch Pediatr** 1997 Jul;4(7):653–5 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Pyogenic granuloma stimulates angiogenesis in the chick embryo chorioallantoic membrane. Ribatti D, et al. **Int J Microcirc Clin Exp** 1996 Mar–Apr;16(2):82–8

RADIOTHERAPY

Treatment of pyogenic granuloma in children with the flashlamp–pumped pulsed dye laser. Tay YK, et al. **Pediatrics** 1997 Mar;99(3):368–70

SURGERY

Soft tissue surgery using radiowave techniques. Hettinger DF. **J Am Podiatr Med Assoc** 1997 Mar;87(3):131–5
Clinical diagnosis and management of hormonally responsive oral pregnancy tumor (pyogenic granuloma). Sills ES, et al. **J Reprod Med** 1996 Jul;41(7):467–70 (30 ref.)
Endoscopic excision of a giant pyogenic granuloma of the nasal cavity caused by nasal packing. Bhattacharyya N, et al. **Rhinology** 1997 Mar;35(1):44–5
[Granuloma pyogenicum––removal with the CO2 laser] Raulin C, et al. **Hautarzt** 1997 Jun;48(6):402–5 (Eng. Abstr.) **(Ger)**

GRANULOMA TELANGIECTICUM see **GRANULOMA, PYOGENIC**

GRANULOMA VENEREUM see **GRANULOMA INGUINALE**

GRANULOMATOSIS, LYMPHOMATOID see **LYMPHOMATOID GRANULOMATOSIS**

GRANULOMATOSIS, WEGENER'S see **WEGENER'S GRANULOMATOSIS**

GRANULOMATOUS CHEILITIS see **MELKERSSON–ROSENTHAL SYNDROME**

GRANULOMATOUS DISEASE, CHRONIC

[Causes of cellular immunosuppression in adults (letter; comment)] Ortega–Calvo M, et al. **Med Clin (Barc)** 1997 Mar 1;108(8):314. Comment on: Med Clin (Barc) 1996 May 25;106(20):787–96. **(Spa)**

BLOOD

[Improvement of respiratory burst by individual neutrophils from a patient with chronic granulomatous disease, type X91– under treatment by granulocyte colony–stimulating factor for multiple liver abscess] Ito Y, et al. **Rinsho Ketsueki** 1997 Jun;38(6):550–2 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Aspergillus endocarditis in chronic granulomatous disease. Casson DH, et al. **Acta Paediatr** 1996 Jun;85(6):758–9
Chronic bullous disease of childhood and a paecilomyces lung infection in chronic granulomatous disease. Sillevis Smitt JH, et al. **Arch Dis Child** 1997 Aug;77(2):150–2
Chronic granulomatous disease presenting as severe sepsis due to Burkholderia gladioli [letter] Hoare S, et al. **Clin Infect Dis** 1996 Aug;23(2):411
Cutaneous manifestations of chronic granulomatous disease. A report of four cases and review of the literature. Dohil M, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):899–907 (50 ref.)
Aspergillus nidulans infection in a patient with chronic granulomatous disease. Kim M, et al. **J Korean Med Sci** 1997 Jun;12(3):244–8
Transient achalasia–like esophageal motility disorder after candida esophagitis in a boy with chronic granulomatous disease. Bode CP, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):320–3
Steroid–responsive esophageal obstruction in a child with chronic granulomatous disease (CGD). al–Tawil YS, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):182–5
Two brothers with p47–phox–deficient chronic granulomatous disease associated with end–stage renal failure. Yamazaki H, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2334–6
[Radiological case of the month. Chronic septic granulomatous disease revealed by pulmonary aspergillosis in a girl] Ben Meriem C, et al. **Arch Pediatr** 1997 Jul; 4(7):683–4 **(Fre)**

DIAGNOSIS

Intrapulmonary Mycobacterium avium infection as the first manifestation of chronic granulomatous disease. Ohga S, et al. **J Infect** 1997 Mar;34(2):147–50
Chronic granulomatous disease: a case study of a symptomatic carrier. Romera Modamio G, et al. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):57–61

DRUG THERAPY

Effect of therapy with recombinant human interferon–gamma on the release of nitric oxide by neutrophils and mononuclear cells from patients with chronic granulomatous disease. Condino–neto A, et al. **J Interferon Cytokine Res** 1996 May;16(5):357–64
Effect of interferon–gamma, in vitro and in vivo, on mRNA levels of phagocyte oxidase components. Weening RS, et al. **J Leukoc Biol** 1996 Dec;60(6):716–20

ENZYMOLOGY

An in–frame triplet deletion within the gp91–phox gene in an adult X–linked chronic granulomatous disease patient with residual NADPH–oxidase activity. Jendrossek V, et al. **Eur J Haematol** 1997 Feb;58(2):78–85
A 25–kb deletion in the 5' region of the cytochrome b558 heavy chain gene (CYBB) in a patient with X–linked chronic granulomatous disease. Faizunnessa NN, et al. **Hum Genet** 1997 Apr;99(4):469–73
[Chronic granulomatous disease (CGD): dysfunction of the neutrophil granulocyte NADPH–oxidase enzyme system] Német K, et al. **Orv Hetil** 1997 Feb 16;138(7):397–401 (20 ref.) (Eng. Abstr.) **(Hun)**

ETIOLOGY

Disturbed interaction of p21–rac with mutated p67–phox causes chronic granulomatous disease. Leusen JH, et al. **J Exp Med** 1996 Oct 1;184(4):1243–9

GENETICS

Identification of a double mutation (D160V–K161E) in the p67phox gene of a chronic granulomatous disease patient. Bonizzato A, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):861–3
Identification of mutations in seven Chinese patients with X–linked chronic granulomatous disease [published erratum appears in Blood 1997 Mar 1;89(5):1843] Hui YF, et al. **Blood** 1996 Nov 15;88(10):4021–8
Hematologically important mutations: the autosomal recessive forms of chronic granulomatous disease. Cross AR, et al. **Blood Cells Mol Dis** 1996;22(3):268–70
Hematologically important mutations: X–linked chronic granulomatous disease. Cross AR, et al. **Blood Cells Mol Dis** 1996;22(1):90–5
Familial juvenile systemic granulomatosis (Blau's syndrome). Scerri L, et al. **Clin Exp Dermatol** 1996 Nov;21(6):445–8
An in–frame triplet deletion within the gp91–phox gene in an adult X–linked chronic granulomatous disease patient with residual NADPH–oxidase activity. Jendrossek V, et al. **Eur J Haematol** 1997 Feb;58(2):78–85
X–CGDbase: a database of X–CGD–causing mutations. Roos D. **Immunol Today** 1996 Nov;17(11):517–21
Disturbed interaction of p21–rac with mutated p67–phox causes chronic granulomatous disease. Leusen JH, et al. **J Exp Med** 1996 Oct 1;184(4):1243–9
Chronic granulomatous disease: a case study of a symptomatic carrier. Romera Modamio G, et al. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):57–61
Chronic granulomatous disease in two children with recurrent infections: family studies using dihydrorhodamine–based flow cytometry. Atkinson TP, et al. **J Pediatr** 1997 Mar;130(3):488–91

IMMUNOLOGY

Chronic granulomatous disease: a case report. Yeh KW, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):148–52
Anti–monocyte cytoplasmic antibodies in granulomatous disease. Forde AM, et al. **Clin Immunol Immunopathol** 1996 Oct;81(1):88–95

METABOLISM

Absence of respiratory burst in X–linked chronic granulomatous disease mice leads to abnormalities in both host defense and inflammatory response to Aspergillus fumigatus. Morgenstern DE, et al. **J Exp Med** 1997 Jan 20;185(2):207–18

MICROBIOLOGY

Francisella philomiragia sepsis in chronic granulomatous disease. Sicherer SH, et al. **Pediatr Infect Dis J** 1997 Apr; 16(4):420–2

PATHOLOGY

Deficiency of p67phox, p47phox or gp91phox in chronic granulomatous disease does not impair leucocyte chemotaxis or motility. Zicha D, et al. **Br J Haematol** 1997 Mar;96(3):543–50
Chronic granulomatous disease of childhood: respiratory cytology. Abati A, et al. **Diagn Cytopathol** 1996 Aug; 15(2):98–102
[An autopsy case of chronic granulomatous disease diagnosed by biopsy] Gonda H, et al. **Kansenshogaku Zasshi** 1997 Jul; 71(7):668–71 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Effects of cyclosporine or FK506 in chronic colitis. Aiko S, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1075–84

RADIONUCLIDE IMAGING

Abnormal technetium labelled white cell scan in the colitis of chronic granulomatous disease. Hoare S, et al. **Arch Dis Child** 1997 Jul;77(1):50–1

SURGERY

Greater omentum flaps and granulocyte transfusions as combined therapy of liver abscess in chronic granulomatous disease. von Planta M, et al. **Eur J Pediatr Surg** 1997 Aug; 7(4):234–6

THERAPY

Treatment of human fetuses and induction of immunological tolerance in humans by in utero transplantation of stem cells into fetal recipients. Touraine JL. **Acta Haematol** 1996; 96(3):115–9
Dose–dependent enhancements by interferon–gamma on functional responses of neutrophils from chronic granulomatous disease patients. Ahlin A, et al. **Blood** 1997 May 1;89(9):3396–401
Retroviral–mediated gene transfer of gp91phox into bone marrow cells rescues defect in host defense against Aspergillus fumigatus in murine X–linked chronic granulomatous disease. Björgvinsdóttir H, et al. **Blood** 1997 Jan 1;89(1):41–8
Enhanced host defense after gene transfer in the murine p47phox–deficient model of chronic granulomatous disease. Mardiney M 3rd, et al. **Blood** 1997 Apr 1;89(7):2268–75
Genetic correction of p67phox deficient chronic granulomatous disease using peripheral blood progenitor cells as a target for retrovirus mediated gene transfer. Weil WM, et al. **Blood** 1997 Mar 1;89(5):1754–61
Successful bone marrow transplantation in a child with X–linked chronic granulomatous disease. Ho CM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):213–5 (17 ref.)
Bone marrow transplantation in chronic granulomatous disease. Calviño MC, et al. **Eur J Pediatr** 1996 Oct; 155(10):877–9
Adenovirus–mediated gene transfer into monocyte–derived macrophages of patients with X–linked chronic granulomatous disease: ex vivo correction of deficient respiratory burst. Schneider SD, et al. **Gene Ther** 1997 Jun; 4(6):524–32

GRANULOMATOUS SLACK SKIN see **LYMPHOMA, T–CELL, CUTANEOUS**

GRANULOSA CELL TUMOR

Juvenile granulosa cell tumors of the ovary in children and adolescents: results from 33 patients registered in a prospective cooperative study. Calaminus G, et al. **Gynecol Oncol** 1997 Jun;65(3):447–52

BLOOD

Serum inhibin and disease status in women with ovarian granulosa cell tumors. Boggess JF, et al. **Gynecol Oncol** 1997 Jan;64(1):64–9

CHEMICALLY INDUCED

Granulosa cell tumor of the ovary associated with antecedent tamoxifen use. Gherman RB, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):717–9 (11 ref.)

CHEMISTRY

Prognostic significance of p53 expression in ovarian granulosa cell tumors. Ala–Fossi SL, et al. **Gynecol Oncol** 1997 Sep;66(3):475–9
Immunohistochemical staining of ovarian granulosa cell tumors with monoclonal antibody against inhibin. McCluggage WG, et al. **Hum Pathol** 1997 Sep;28(9):1034–8
Juvenile granulosa cell tumor discovered during pregnancy: case report with immunohistochemical study of steroidogenesis. Sasano H, et al. **Pathol Int** 1997 May; 47(5):325–8

DIAGNOSIS

Androgen producing luteinized granulosa cell tumor. Martinez L, et al. **Acta Obstet Gynecol Scand** 1997 Mar; 76(3):285–6
Immunoreactive inhibin, müllerian inhibitory substance, and activin as biochemical markers for juvenile granulosa cell tumors. Silverman LA, et al. **J Pediatr** 1996 Dec; 129(6):918–21 (20 ref.)
[Granulosa cell tumors: a case located in the broad ligament of the uterus with normal ovaries] Vanderstichele S, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):47–52 (22 ref.) (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Leuprolide acetate for treating refractory or persistent ovarian granulosa cell tumor. Fishman A, et al. **J Reprod Med** 1996 Jun;41(6):393–6

GENETICS

Loss of heterozygosity at the alpha-inhibin locus on chromosome 2q is not a feature of human granulosa cell tumors. Watson RH, et al. **Gynecol Oncol** 1997 Jun; 65(3):387–90

Absence of the previously reported G protein oncogene (gip2) in ovarian granulosa cell tumors. Shen Y, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4159–61

METABOLISM

Androgen producing luteinized granulosa cell tumor. Martinez L, et al. **Acta Obstet Gynecol Scand** 1997 Mar; 76(3):285–6

Hormone synthesis and responsiveness of spontaneous granulosa cell tumors in (SWR x SWXJ-9) F1 mice. Gocze PM, et al. **Gynecol Oncol** 1997 Apr;65(1):143–8

Increased serum concentrations of type IV collagen and laminin associated with granulosa cell tumour of the ovary. Iwahashi M, et al. **J Clin Pathol** 1997 Jan;50(1):77–9

Immunohistochemical expression of inhibin/activin subunits in epithelial and granulosa cell tumours of the ovary. Arora DS, et al. **J Pathol** 1997 Apr;181(4):413–8

PATHOLOGY

A review of granulosa cell tumours and thecomas of the ovary. Aboud E. **Arch Gynecol Obstet** 1997;259(4):161–5

Prognostic factors in adult granulosa cell tumor of the ovary. Miller BE, et al. **Cancer** 1997 May 15;79(10):1951–5

Diagnostic significance and possible pitfalls of nuclear grooves in extrathyroid cytology. Ng WK, et al. **Diagn Cytopathol** 1997 Jan;16(1):57–64

Recurrent granulosa cell tumor of the ovary 37 years after initial diagnosis: a case report and review of the literature. Hines JF, et al. **Gynecol Oncol** 1996 Mar;60(3):484–8 (33 ref.)

Mucinous elements in Sertoli-Leydig and granulosa cell tumours: a reevaluation. Doussis-Anagnostopoulou IA, et al. **Histopathology** 1996 Apr;28(4):372–5

Gynandroblastoma of ovary with juvenile granulosa cell component and heterologous intestinal type glands. McCluggage WG, et al. **Histopathology** 1996 Sep; 29(3):253–7

Granulosa cell tumor of the ovary. Maleemonkol S, et al. **J Med Assoc Thai** 1996 Oct;79(10):648–53

Juvenile granulosa cell tumor of the ovary in infants: a clinicopathologic study of three cases and review of the literature. Bouffet E, et al. **J Pediatr Surg** 1997 May; 32(5):762–5

RADIOGRAPHY

Recurrent granulosa cell tumor of the ovary 37 years after initial diagnosis: a case report and review of the literature. Hines JF, et al. **Gynecol Oncol** 1996 Mar;60(3):484–8 (33 ref.)

SECONDARY

Hepatic metastases of granulosa cells tumour of the ovary. Rodríguez García JI, et al. **HPB Surg** 1996;10(1):55–7

SECRETION

Cytologic features of pulmonary metastasis from a granulosa cell tumor diagnosed by fine-needle aspiration: a case report. Liu K, et al. **Diagn Cytopathol** 1997 Apr;16(4):341–4

SURGERY

Juvenile granulosa cell tumor of the testis: report of two cases in newborns. Chan YF, et al. **J Pediatr Surg** 1997 May;32(5):752–3

THERAPY

The management of granulosa cell tumor of the ovary--a case history. Verhagen CA, et al. **Ann Oncol** 1996 Jul; 7(5):521–4 (20 ref.)

Management of advanced juvenile granulosa cell tumor of the ovary. Powell JL, et al. **Gynecol Oncol** 1997 Feb; 64(2):282–4

ULTRASONOGRAPHY

Macrofolliculoid granulosa cell tumour mistaken for a polycystic ovary at ultrasound scan. Fox R, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):492–3

Sonographic and clinical findings of granulosa cell tumor. Hong BK, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Mar;57(3):214–8

[Ovarian granulosa cell tumor of juvenile type associated with pregnancy. Clinical case and review of the literature] Bognoni V, et al. **Minerva Ginecol** 1997 Jun;49(6):283–7 (34 ref.) (Eng. Abstr.) **(Ita)**

ULTRASTRUCTURE

Adult-type granulosa cell tumor, presenting as extraovarian metastases: ultrastructural diagnosis. Drachenberg CB, et al. **Ultrastruct Pathol** 1996 May-Jun;20(3):231–9

VETERINARY

A case of metastasizing ovarian granulosa cell tumour in the myocardium of a bitch. Sabočanec R, et al. **Acta Vet Hung** 1996;44(2):189–94

Laparoscopic ovariectomy in two horses with granulosa cell tumors. Ragle CA, et al. **J Am Vet Med Assoc** 1996 Sep 15;209(6):1121–4

Theriogenology question of the month. Histologic examination of ovarian tissue to confirm the diagnosis of a granulosa cell tumor. Sedrish SA, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):731–2

A mare with colic caused by an ovarian tumour. van der Zaag EJ, et al. **Vet Q** 1996 Jun;18(2):60–2

GRANULOSA CELLS

CHEMISTRY

Regulation of prostaglandin F2 alpha receptor expression in cultured human granulosa-luteal cells. Ristimäki A, et al. **Endocrinology** 1997 Jan;138(1):191–5

Immunodetection of cotinine protein in granulosa-lutein cells of women exposed to cigarette smoke. Zenzes MT, et al. **Fertil Steril** 1997 Jul;68(1):76–82

Colocalization of connexin 43 and connexin 45 but absence of connexin 40 in granulosa cell gap junctions of rat ovary. Okuma A, et al. **J Reprod Fertil** 1996 Jul;107(2):255–64

Steroidogenic acute regulatory (StAR) protein (p25) and prohibitin (p28) from cultured rat ovarian granulosa cells. Thompson WE, et al. **J Reprod Fertil** 1997 Mar; 109(2):337–48

Immunohistochemical localization of the LH/HCG receptor in human ovary: HCG enhances cell surface expression of LH/HCG receptor on luteinizing granulosa cells in vitro. Takao Y, et al. **Mol Hum Reprod** 1997 Jul;3(7):569–78

Expression of multiple thyroid hormone receptor mRNAs in human oocytes, cumulus cells, and granulosa cells. Zhang SS, et al. **Mol Hum Reprod** 1997 Jul;3(7):555–62

CYTOLOGY

Aneuploidy of human granulosa cells in follicular fluids from in vitro fertilization patients. Melsheimer P, et al. **Anal Quant Cytol Histol** 1997 Feb;19(1):75–9

Morphological evidence of apoptosis and the prevalence of apoptotic versus mitotic cells in the membrana granulosa of ovarian follicles during spontaneous and induced atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):837–46

Ovarian granulosa and theca interstitial cells: a morphological and physiological analysis in guanethidine denervated rats at pre-puberty. Rosa e Silva AA, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 May;43(3):409–16

Evidence for the maintenance of macrophage-like cells in long-term bovine granulosa cell cultures. Spanel-Borowski K, et al. **Cell Tissue Res** 1997 Jun;288(3):529–38

Does ovarian granulosa and theca cell interaction in co-culture affect the cytoplasmic microtubule organization? Gregoraszczuk E, et al. **Cytobios** 1996; 88(354):133–40

Growth of differentiation: determination by FSH of the action of insulin-like growth factor-I in cultured rat granulosa cells. Kanzaki M, et al. **Endocr J** 1996 Feb; 43(1):15–23

Control of differentiation, transformation, and apoptosis in granulosa cells by oncogenes, oncoviruses, and tumor suppressor genes. Amsterdam A, et al. **Endocr Rev** 1997 Aug;18(4):435–61 (367 ref.)

Follicle-stimulating hormone induces terminal differentiation in a predifferentiated rat granulosa cell line (ROG). Li R, et al. **Endocrinology** 1997 Jul;138(7):2648–57

Basic fibroblast growth factor and N-cadherin maintain rat granulosa cell and ovarian surface epithelial cell viability by stimulating the tyrosine phosphorylation of the fibroblast growth factor receptors. Trolice MP, et al. **Endocrinology** 1997 Jan;138(1):107–13

Detection of immunoreactive interleukin-11 in human follicular fluid: correlations with ovarian steroid, insulin-like growth factor I levels, and follicular maturity. Branisteanu I, et al. **Fertil Steril** 1997 Jun;67(6):1054–8

Subpopulations of human granulosa-luteal cells in natural and stimulated in vitro fertilization-embryo transfer cycles. Gersak K, et al. **Fertil Steril** 1996 Mar;65(3):608–13

The incidence of apoptotic bodies in membrana granulosa can predict prognosis of ova from patients participating in in vitro fertilization programs. Nakahara K, et al. **Fertil Steril** 1997 Aug;68(2):312–7

A simplified serum-free method for preparation and cultivation of human granulosa-luteal cells. Figenschau Y, et al. **Hum Reprod** 1997 Mar;12(3):523–31

Flow cytometric analysis of granulosa cells from follicular fluid after follicular stimulation. Neubourg DD, et al. **Hum Reprod** 1996 Oct;11(10):2211–4

Granulosa cell kinetics examined by bromodeoxyuridine in combination with colchicine in the mouse ovarian follicles. Shinohara Y, et al. **In Vivo** 1997 May-Jun;11(3):249–52

The human ovarian granulosa cell: a stereological approach. Dhar A, et al. **J Anat** 1996 Jun;188 (Pt 3):671–6

Follicle-stimulating hormone-induced estradiol and progesterone production by bovine antral and mural granulosa cells cultured in vitro in a completely defined medium. Rouillier P, et al. **J Anim Sci** 1996 Dec; 74(12):3012–9

Evidence for the oligoclonal origin of the granulosa cell population of the mature human follicle. Van Deerlin PG, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3019–24

Effects of insulin-like growth factors and binding protein 1 on bovine granulosa cell division in anchorage-independent culture. Lavranos TC, et al. **J Reprod Fertil** 1996 Jul;107(2):221–8

A first catalog of genes involved in pig ovarian follicular differentiation. Tosser-Klopp G, et al. **Mamm Genome** 1997 Apr;8(4):250–4

M-phase specific centrosome-microtubule alterations induced by the fungicide MBC in human granulosa cells. Can A, et al. **Mutat Res** 1997 Jan 3;373(1):139–51

Production of extracellular matrix, fibronectin and steroidogenic enzymes, and growth of bovine granulosa cells in anchorage-independent culture. Rodgers RJ, et al. **Reprod Fertil Dev** 1996;8(2):249–57

Apoptosis in steroidogenic cells: structure-function analysis. Amsterdam A, et al. **Steroids** 1997 Jan;62(1):207–11 (33 ref.)

Cross-talk between cAMP and p53-generated signals in induction of differentiation and apoptosis in steroidogenic granulosa cells. Amsterdam A, et al. **Steroids** 1996 Apr; 61(4):252–6 (49 ref.)

[Tumor necrosis factor alpha regulates the proliferative activity and differentiated function of granulosa cells: in vitro study with a porcine model] Deguchi J, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Nov; 48(11):1043–50 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Regulation of rat granulosa cell alpha-inhibin expression by luteinizing hormone, estradiol, and progesterone. Tekmal RR, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):420–7

The response of bovine granulosa cells to different gonadotrophins in culture. Kuran M, et al. **Anim Reprod Sci** 1996 Dec 2;45(1–2):1–12

Inhibition of estradiol-17 beta secretion in ovarian granulosa cells by an extract from the submandibular gland of the rat. Minamida G, et al. **Biochem Mol Biol Int** 1996 Aug; 39(6):1099–108

A novel hypothalamic peptide, pituitary adenylate cyclase-activating peptide, regulates the function of rat granulosa cells in vitro. Heindel JJ, et al. **Biol Reprod** 1996 Mar;54(3):523–30

Interactions between follicle-stimulating hormone and growth factors in regulation of deoxyribonucleic acid synthesis in bovine granulosa cells. Khamsi F, et al. **Biol Reprod** 1997 Sep;57(3):684–8

Duration of estrogen exposure prior to follicle-stimulating hormone stimulation is critical to granulosa cell growth and differentiation in rats. Reilly CM, et al. **Biol Reprod** 1996 Jun;54(6):1336–42

Zinc protection against cadmium-induced infertility in female rats. Effect of zinc and cadmium on the progesterone production of cultured granulosa cells. Paksy K, et al. **Biometals** 1997 Jan;10(1):27–35

Influence of follicular maturation on the susceptibility of chicken ovarian granulosa cells to free oxygen radicals. Nemecz G, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):25–30

Effect of tumor necrosis factor-alpha on progesterone production by granulosa cells in laying hens of different genetic lines. Bryan MA, et al. **Domest Anim Endocrinol** 1997 May;14(3):161–9

Influence of nicotine on progesterone and estradiol production of cultured human granulosa cells. Bódis J, et al. **Early Pregnancy** 1997 Mar;3(1):34–7

Divergent effects of interleukin-1 beta on steroidogenesis and matrix metalloproteinase inhibitor expression and activity in cultured rat granulosa cells. Nothnick WB, et al. **Endocrinology** 1996 Sep;137(9):3784–90

Induction of apoptotic cell death in hen granulosa cells by ceramide. Witty JP, et al. **Endocrinology** 1996 Dec; 137(12):5269–77

Regulation of insulin-like growth factor-binding protein-1 and progesterone secretion from human granulosa-luteal cells: effects of octreotide and insulin. Holst N, et al. **Fertil Steril** 1997 Sep;68(3):478–82

Action of vasopressin in superfused human granulosa cells in vitro. Rabe T, et al. **Gynecol Endocrinol** 1996 Dec; 10(6):371–4

Effect of human chorionic gonadotrophin on the detachment of human granulosa cells from extracellular matrix layered onto glass or plastic. Aston KE, et al. **Hum Reprod** 1996 Feb;11(2):336–40

Interleukin-1 alpha and -beta modulation of luteinized human granulosa cell oestrogen and progesterone biosynthesis. Best CL, et al. **Hum Reprod** 1995 Dec;10(12):3206–10

Granulosa cells from follicle stimulating hormone-primed monkeys enhance the development competence of in-vitro-matured oocytes from non-stimulated rhesus monkeys. Schramm RD, et al. **Hum Reprod** 1996 Aug; 11(8):1698–702

Transcriptional and post-transcriptional regulation of FSH receptor in rat granulosa cells by cyclic AMP and activin. Tano M, et al. **J Endocrinol** 1997 Jun;153(3):465–73

Partial purification from bovine follicular fluid of a factor of low molecular mass with inhibitory effects on the proliferation of bovine granulosa cells in vitro and on rat

follicular development in vivo. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):185–91

Modulation of the effects of FSH, androstenedione, epidermal growth factor (EGF) and insulin-like growth factor I (IGF-I) on bovine granulosa cells by GCIF, a growth-inhibitory factor of low molecular mass from bovine follicular fluid. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):193–7

Differential regulation of inhibin/activin alpha- and beta A-subunit and follistin mRNAs by cyclic AMP and phorbol ester in cultured human granulosa-luteal cells. Tuuri T, et al. **Mol Cell Endocrinol** 1996 Jul 23;121(1):1–10

Effect of gonadotrophin on cell and matrix retention and expression of metalloproteinases and their inhibitor in cultured human granulosa cells modelling corpus luteum function. Aston KE, et al. **Mol Hum Reprod** 1996 Jan; 2(1):26–30

Prostaglandin E2 induces inhibin alpha- and beta A-subunit mRNA and secretion of dimeric inhibin A in cultured human granulosa-luteal cells. Erämaa M, et al. **Mol Hum Reprod** 1996 Nov;2(11):815–22

Cytokine induction of heat shock protein in human granulosa-luteal cells. Kim AH, et al. **Mol Hum Reprod** 1996 Aug;2(8):549–54

Nitric oxide inhibits steroidogenesis in cultured porcine granulosa cells. Masuda M, et al. **Mol Hum Reprod** 1997 Apr;3(4):285–92

Gonadotrophin regulation of production of tissue inhibitor of metalloproteinases-1 by luteinized human granulosa cells: a potential mechanism for luteal rescue. O'Sullivan MJ, et al. **Mol Hum Reprod** 1997 May;3(5):405–10

Action of recombinant follicle stimulating hormone in superfused human granulosa cells in vitro. Rabe T, et al. **Mol Hum Reprod** 1996 Apr;2(4):291–4

The prolactin inhibition of follicle-stimulating hormone-induced aromatase activity in cultured rat granulosa cells is in part tyrosine kinase and protein kinase-C dependent. Villanueva LA, et al. **Mol Hum Reprod** 1996 Oct;2(10):725–31

Inhibitory effect of gonadotrophin-releasing hormone (GnRH) on rat granulosa cell deoxyribonucleic acid synthesis. Saragüeta PE, et al. **Mol Reprod Dev** 1997 Jun; 47(2):170–4

M-phase specific centrosome-microtubule alterations induced by the fungicide MBC in human granulosa cells. Can A, et al. **Mutat Res** 1997 Jan 3;373(1):139–51

Direct action of melatonin on hen ovarian granulosa cells to lower responsiveness to luteinizing hormone. Murayama T, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):386–92

Increased production and release of prostaglandin-E2 by human granulosa cells from polycystic ovaries. Navarra P, et al. **Prostaglandins** 1996 Sep;52(3):187–97

Mechanism of toxic action of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in cultured human luteinized granulosa cells. Enan E, et al. **Reprod Toxicol** 1996 Nov–Dec;10(6):497–508

The effect of persistent chlorinated hydrocarbons on the secretion of estradiol and progesterone by bovine granulosa cells in vitro. Faundez R, et al. **Zentralbl Veterinarmed A** 1996 Jul;43(5):317–23

[Effects of gonadotropin-releasing hormone and its analogue (buserelin) on aromatase in cultured human granulosa cells] Maeda K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb;48(2):89–95 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Prolactin-mediated inhibition of 20alpha-hydroxysteroid dehydrogenase gene expression and the tyrosine kinase system. Zhong L, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):587–92

Activation of mitogen-activated protein kinases by gonadotropins and cyclic adenosine 5'-monophosphates in porcine granulosa cells. Cameron MR, et al. **Biol Reprod** 1996 Jul;55(1):111–9

Relaxin modulates the ovulatory process and increases secretion of different gelatinases from granulosa and theca-interstitial cells in rats. Hwang JJ, et al. **Biol Reprod** 1996 Dec;55(6):1276–83

Cyclin-dependent kinase 5 is associated with apoptotic cell death during development and tissue remodeling. Zhang Q, et al. **Dev Biol** 1997 Mar 15;183(2):222–33

Induction of guanosine triphosphate-cyclohydrolase by follicle-stimulating hormone enhances interleukin-1 beta-stimulated nitric oxide synthase activity in granulosa cells. Tabraue C, et al. **Endocrinology** 1997 Jan;138(1):162–8

Triiodothyronine and follicle-stimulating hormone, alone and additively together, stimulate production of the tissue inhibitor of metalloproteinases-1 in cultured human luteinized granulosa cells. Goldman S, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1869–73

Expression and regulation of 17 beta-hydroxysteroid dehydrogenase type 1. Peltoketo H, et al. **J Endocrinol** 1996 Sep;150 Suppl:S21–30 (59 ref.)

Suppression of matrix metalloproteinase production by hCG in cultures of human luteinized granulosa cells as a model for gonadotrophin-induced luteal rescue. Stamouli A, et al. **J Reprod Fertil** 1996 Jul;107(2):235–9

Paradoxical effect of 3-isobutyl-1-methylxanthine on cytochrome P450 cholesterol side-chain cleavage mRNA accumulation in porcine granulosa cells. Lahav M, et al. **Mol Cell Endocrinol** 1996 Mar 25;117(2):203–10

Effect of gonadotrophin on cell and matrix retention and expression of metalloproteinases and their inhibitor in cultured human granulosa cells modelling corpus luteum function. Aston KE, et al. **Mol Hum Reprod** 1996 Jan; 2(1):26–30

[Effects of gonadotropin-releasing hormone and its analogue (buserelin) on aromatase in cultured human granulosa cells] Maeda K, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb;48(2):89–95 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Human granulosa cells express HLA-DR antigen and are capable of synthesizing interleukin-1. Barañao RI, et al. **Horm Metab Res** 1995 Nov;27(11):495–8

Expression of Fas-Fas ligand system associated with atresia through apoptosis in murine ovary. Mori T, et al. **Horm Res** 1997;48 Suppl 3:11–9

METABOLISM

Characterization of the AT2 receptor on rat ovarian granulosa cells. Tanaka M, et al. **Adv Exp Med Biol** 1996; 396:175–82 (27 ref.)

Regulation of rat granulosa cell alpha-inhibin expression by luteinizing hormone, estradiol, and progesterone. Tekmal RR, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):420–7

Direct action of growth hormone on bovine ovarian cells: effects on estradiol, oxytocin, vasopressin release by granulosa cells and on oocyte maturation and cleavage in vitro. Sirotkin AV. **Ann Endocrinol (Paris)** 1996; 57(3):219–24

Effects of PACAP and VIP on adrenal progesterone release. Baranowska B, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:628–33

Hormonal regulation of N-cadherin mRNA levels in rat granulosa cells. Farookhi R, et al. **Ann N Y Acad Sci** 1997 Jun 17;816:165–72

Effect of tumor necrosis factor alpha on steroidogenesis in cultured human ovarian granulosa cells. Putowski LT. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:83–6

Regulation of midkine messenger ribonucleic acid levels in cultured rat granulosa cells. Minegishi T, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):799–805

Macrophage migration inhibitory factor in the human ovary: presence in the follicular fluids and production by granulosa cells. Wada S, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):805–14

Angiotensin II receptor type 1 on granulosa and thecal cells of rabbit preovulatory follicles. Féral C, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):221–6

Steroidogenic factor-1 expression is transiently repressed and c-myc expression and deoxyribonucleic acid synthesis are induced in rat granulosa cells during the periovulatory period. Agarwal P, et al. **Biol Reprod** 1996 Dec; 55(6):1271–5

Insulin-like growth factor (IGF)-binding protein production by primary cultures of ovine granulosa and theca cells. The effects of IGF-I, gonadotropin, and follicle size. Armstrong DG, et al. **Biol Reprod** 1996 Nov;55(5):1163–71

Expression of messenger ribonucleic acid (mRNA) encoding 3beta-hydroxysteroid dehydrogenase delta4,delta5 isomerase (3beta-HSD) during recruitment and selection of bovine ovarian follicles: identification of dominant follicles by expression of 3beta-HSD mRNA within the granulosa cell layer. Bao B, et al. **Biol Reprod** 1997 Jun; 56(6):1466–73

Expression of inhibin alpha and inhibin/activin beta A subunits in the granulosa layer of the large preovulatory follicles of the hen. Chen CC, et al. **Biol Reprod** 1996 Aug; 55(2):450–4

Activin-attenuated expression of transcripts encoding granulosa cell-derived insulin-like growth factor binding proteins 4 and 5 in the rat: a putative antiatretic effect. Choi D, et al. **Biol Reprod** 1997 Feb;56(2):508–15

Insulin-like growth factor-I-mediated amplification of follicle-stimulating hormone-supported progesterone accumulation by cultured rat granulosa cells: enhancement of steroidogenic enzyme activity and expression. deMoura MD, et al. **Biol Reprod** 1997 Apr;56(4):946–53

Progesterone receptor messenger ribonucleic acid and protein in luteinized granulosa cells of rhesus monkeys are regulated in vitro by gonadotropins and steroids. Duffy DM, et al. **Biol Reprod** 1996 Apr;54(4):888–95

Interactions between follicle-stimulating hormone and growth factors in regulation of deoxyribonucleic acid synthesis in bovine granulosa cells. Khamsi F, et al. **Biol Reprod** 1997 Sep;57(3):684–8

Up-regulation of urokinase plasminogen activator messenger ribonucleic acid and protein in hen granulosa cells by transforming growth factor alpha in vitro during follicular development. Li J, et al. **Biol Reprod** 1997 May; 56(5):1317–22

Functional oxytocin receptors in bovine granulosa cells. Okuda K, et al. **Biol Reprod** 1997 Mar;56(3):625–31

Effects of hormones and protein kinase inhibitors on expression of steroidogenic enzyme promoters in electroporated primary rat granulosa cells. Orly J, et al. **Biol Reprod** 1996 Jan;54(1):208–18

Immunoneutralization of transforming growth factor alpha present in bovine follicular fluid prevents the suppression of the follicle-stimulating hormone-induced production of estradiol by bovine granulosa cells cultured in vitro. Rouillier P, et al. **Biol Reprod** 1997 Aug;57(2):341–6

Lipopolysaccharide inhibits in vitro luteinizing hormone-stimulated rat ovarian granulosa cell estradiol but not progesterone secretion. Taylor CC, et al. **Biol Reprod** 1996 Jun;54(6):1390–6

Avian germinal disc region secretes factors that stimulate proliferation and inhibit progesterone production by granulosa cells. Tischkau SA, et al. **Biol Reprod** 1996 Apr; 54(4):865–70

Granulosa layer: primary site of regulation of plasminogen activator messenger ribonucleic acid by luteinizing hormone in the avian ovary. Tischkau SA, et al. **Biol Reprod** 1996 Jul;55(1):75–9

Regulation of oxytocin receptors in bovine granulosa cells. Uenoyama Y, et al. **Biol Reprod** 1997 Sep;57(3):569–74

Inhibitory effect of peritoneal macrophages on progesterone release from cocultured rat granulosa cells is reversed by dexamethasone: evidence for an action independent of nitric oxide and distal to cyclic adenosine 3',5'-monophosphate generation. Whitehead S, et al. **Biol Reprod** 1996 Jun;54(6):1317–25

Mechanisms involved in ATP-evoked Ca2+ oscillations in isolated human granulosa-luteal cells. Squires PE, et al. **Cell Calcium** 1997 May;21(5):365–74

Evidence that nitric oxide inhibits steroidogenesis in cultured rat granulosa cells. Dave S, et al. **Clin Sci (Colch)** 1997 Mar;92(3):277–84

Luteinizing hormone activates chloride currents in hen ovarian granulosa cells. Chiang M, et al. **Comp Biochem Physiol A Physiol** 1997 Apr;116(4):361–8

Direct effects of estradiol and tamoxifen on gene expressions of inhibit alpha- and beta A-subunits in rat granulosa cells in vitro. Tate S, et al. **Endocr J** 1996 Dec;43(6):621–8

Regulation of porcine granulosa cell steroidogenic acute regulatory protein (StAR) by insulin-like growth factor I: synergism with follicle-stimulating hormone or protein kinase A agonist. Balasubramanian K, et al. **Endocrinology** 1997 Jan;138(1):433–9

Hormone induction of ascorbic acid transport in immature granulosa cells. Behrman HR, et al. **Endocrinology** 1996 Oct;137(10):4316–21

P2-purinoreceptor evoked changes in intracellular calcium oscillations in single isolated human granulosa-lutein cells. Lee PS, et al. **Endocrinology** 1996 Sep;137(9):3756–61

Gonadotropins induce rapid phosphorylation of the 3',5'-cyclic adenosine monophosphate response element binding protein in ovarian granulosa cells. Mukherjee A, et al. **Endocrinology** 1996 Aug;137(8):3234–45

Induction of cyclooxygenase-2 and prostaglandin F2alpha receptor expression by interleukin-1beta in cultured human granulosa-luteal cells. Narko K, et al. **Endocrinology** 1997 Sep;138(9):3638–44

Regulation of insulin-like growth factor I biosynthesis in porcine granulosa cells. Samaras SE, et al. **Endocrinology** 1996 Nov;137(11):4657–64

Regulation of follistatin production by rat granulosa cells in vitro. Shintani Y, et al. **Endocrinology** 1997 Jun; 138(6):2544–51

Direct intraovarian effects of leptin: impairment of the synergistic action of insulin-like growth factor-I on follicle-stimulating hormone-dependent estradiol-17 beta production by rat ovarian granulosa cells. Zachow RJ, et al. **Endocrinology** 1997 Feb;138(2):847–50

Recombinant human gonadotropins stimulate steroid and inhibin production in human granulosa cells. Bergh C, et al. **Eur J Endocrinol** 1997 Jun;136(6):617–23

Role of protein kinase C in the regulation of ATP-triggered intracellular Ca2+ oscillations in chicken granulosa cells. Morley P, et al. **Eur J Endocrinol** 1996 Jun;134(6):743–50

Inter-alpha-trypsin inhibitor is concentrated in the pericellular environment of mouse granulosa cells through hyaluronan-binding. Hirashima Y, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):79–84

Expression of mRNA for ovarian steroid-stimulating factor (apolipoprotein A-I and apolipoprotein A-I-like protein) in human granulosa cells. Pascher E, et al. **Exp Clin Endocrinol Diabetes** 1997;105(2):122–4

Melatonin and serotonin regulate the release of insulin-like growth factor-I, oxytocin and progesterone by cultured human granulosa cells. Schaeffer HJ, et al. **Exp Clin Endocrinol Diabetes** 1997;105(2):109–12

Down-regulation of LH/hCG receptor in rat cultured granulosa cells. Kishi H, et al. **FEBS Lett** 1997 Feb 3; 402(2-3):198–202

Morphology and steroidogenesis of cultured granulosa cells obtained from ovaries of women treated with ionizing radiation. Skrzypczak J. **Folia Histochem Cytobiol** 1997; 35(1):29–33

Expression and regulation of mRNA for inhibin/activin alpha- and betaA-subunits in the granulosa layer of the two largest preovulatory follicles during the hen ovulatory cycle. Chen CC, et al. **Gen Comp Endocrinol** 1997 Sep; 107(3):386–93

Expression of vascular endothelial growth factor in human luteinizing granulosa cells and its correlation with the response to controlled ovarian hyperstimulation. Doldi N, et al. **Gynecol Endocrinol** 1997 Aug;11(4):263–7

Effect of alkaloids in cigarette smoke on human granulosa cell progesterone synthesis and cell viability. Gocze PM, et al. **Gynecol Endocrinol** 1996 Aug;10(4):223–8

Action of vasopressin in superfused human granulosa cells in vitro. Rabe T, et al. **Gynecol Endocrinol** 1996 Dec; 10(6):371–4

Effect of follicular fluid on granulosa luteal cells from polycystic ovary. Andreani CL, et al. **Hum Reprod** 1996 Oct;11(10):2107–13

Interleukin–1 alpha and –beta modulation of luteinized human granulosa cell oestrogen and progesterone biosynthesis. Best CL, et al. **Hum Reprod** 1995 Dec;10(12):3206–10

Activin inhibition of estradiol and progesterone production in porcine granulosa cells. Ford JJ, et al. **J Anim Sci** 1997 Mar;75(3):761–6

Follicle–stimulating hormone–induced estradiol and progesterone production by bovine antral and mural granulosa cells cultured in vitro in a completely defined medium. Rouillier P, et al. **J Anim Sci** 1996 Dec; 74(12):3012–9

Development of a sensitive porcine granulosa cell bioassay for follicle–stimulating hormone (FSH). Sites CK, et al. **J Assist Reprod Genet** 1996 Jul;13(6):505–10

Hyaluronan synthesis by mouse cumulus cells is regulated by interactions between follicle–stimulating hormone (or epidermal growth factor) and a soluble oocyte factor (or transforming growth factor beta1). Tirone E, et al. **J Biol Chem** 1997 Feb 21;272(8):4787–94

Progesterone triggers rapid transmembrane calcium influx and/or calcium mobilization from endoplasmic reticulum, via a pertussis–insensitive G–protein in granulosa cells in relation to luteinization process. Machelon V, et al. **J Cell Biochem** 1996 Jun 15;61(4):619–28

Follicle–stimulating hormone and luteinizing hormone/chorionic gonadotropin stimulation of vascular endothelial growth factor production by macaque granulosa cells from pre– and periovulatory follicles. Christenson LK, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2135–42

Laminin suppresses progesterone production by human luteinizing granulosa cells via interaction with integrin alpha 6 beta 1. Fujiwara H, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2122–8

Identification of ovarian granulosa cells as a novel site of expression for bone morphogenetic protein–3 (BMP–3/osteogenin) and regulation of BMP–3 messenger ribonucleic acids by chorionic gonadotropin in cultured human granulosa–luteal cells. Jaatinen R, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3877–82

Differential expression of messenger ribonucleic acids encoding 11beta–hydroxysteroid dehydrogenase types 1 and 2 in human granulosa cells. Tetsuka M, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):2006–9

Intercellular adhesion molecule–1 is expressed on human granulosa cells and mediates their binding to lymphoid cells. Viganò P, et al. **J Clin Endocrinol Metab** 1997 Jan; 82(1):101–5

Interaction among bovine somatotropin, insulin, and gonadotropins on steroid production by bovine granulosa and thecal cells. Spicer LJ, et al. **J Dairy Sci** 1996 May; 79(5):813–21

Thyroid hormone induces the synthesis of a putative protein in the rat granulosa cell which stimulates progesterone release. Bandyopadhyay A, et al. **J Endocrinol** 1996 Aug; 150(2):309–18

Effect of the protein phosphatase inhibitor okadaic acid on FSH–induced granulosa cell steroidogenesis. González Reyes J, et al. **J Endocrinol** 1997 Jan;152(1):131–9

Insulin–like growth factor–I (IGF–I) production by bovine granulosa cells in vitro and peripheral IGF–I measurement in cattle serum: an evaluation of IGF–binding protein extraction protocols. Gutiérrez CG, et al. **J Endocrinol** 1997 May;153(2):231–40

Growth hormone as an amplifier of insulin–like growth factor–I action: potentiated oestradiol accumulation. Xu YP, et al. **J Endocrinol** 1997 Feb;152(2):201–9

Interrelationships between follicle stimulating hormone and the growth hormone—insulin–like growth factor—IGF–binding proteins axes in human granulosa cells in culture. Barreca A, et al. **J Endocrinol Invest** 1996 Jan;19(1):35–42

Identification of G alpha s messenger ribonucleic acid splice variants in human granulosa cells. Europe–Finner GN, et al. **J Mol Endocrinol** 1997 Feb;18(1):27–35

The influence of FSH, LH and testosterone on steroidsecretion by two subpopulations of porcine granulosa cells. Duda M. **J Physiol Pharmacol** 1997 Mar; 48(1):89–96

Characterization and hormonal regulation of granulosa cell–derived insulin–like growth factor binding protein–4. Choi D, et al. **J Soc Gynecol Investig** 1996 May–Jun; 3(3):145–51

Rat ovarian insulin–like growth factor binding protein–4: a hormone–dependent granulosa cell–derived antigonadotropin. Putowski L, et al. **J Soc Gynecol Investig** 1997 May–Jun;4(3):144–51

Modulatory action of epidermal growth factor on differentiated human granulosa lutein cells: cross–talk between ligand activated receptors for EGF and gonadotropin. Budnik LT, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):141–50

Differential responses of post–natal rat ovarian cells to FSH and activin. Drummond AE, et al. **Mol Cell Endocrinol** 1996 Aug 30;122(1):21–32

Transforming growth factor beta receptor expression in cultured porcine granulosa cells. Goddard I, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):207–13

Association of Ad4BP/SF–1 transcription factor with steroidogenic activity in oncogene–transformed granulosa cells. Keren–Tal I, et al. **Mol Cell Endocrinol** 1997 Mar 14;127(1):49–57

Tumor necrosis factor–alpha induces interleukin–6 mRNA and protein in human granulosa luteinizing cells via protein tyrosine kinase without involving ceramide. Machelon V, et al. **Mol Cell Endocrinol** 1997 Feb 7;126(2):173–84

Expression of follicle–stimulating hormone–receptor mRNA alternate transcripts in bovine granulosa cells during luteinization in vivo and in vitro. Rajapaksha WR, et al. **Mol Cell Endocrinol** 1996 Jun 18;120(1):25–30

Fourier analysis of differential light scattering for the quantitation of FSH response associated with structural changes in immortalized granulosa cells. Schiffer Z, et al. **Mol Cell Endocrinol** 1996 Apr 19;118(1–2):145–53

Partial sequencing of the rat steroidogenic acute regulatory protein message from immortalized granulosa cells: regulation by gonadotropins and isoproterenol. Selvaraj N, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):171–7

Prolactin induction of the alpha 2–Macroglobulin gene in rat ovarian granulosa cells: stat 5 activation and binding to the interleukin–6 response element. Dajee M, et al. **Mol Endocrinol** 1996 Feb;10(2):171–84

Human granulosa cells in culture exhibit functional cyclic AMP–regulated gap junctions. Furger C, et al. **Mol Hum Reprod** 1996 Aug;2(8):541–8

Gonadotrophin–releasing hormone and triptorelin inhibit the follicle stimulating hormone–induced response in human primary cultured granulosa–lutein cells. Furger C, et al. **Mol Hum Reprod** 1996 Apr;2(4):259–64

Cell shape change reveals the cyclic AMP–mediated action of follicle stimulating hormone, human chorionic gonadotrophin and vasoactive intestinal peptide in primary cultured human granulosa–lutein cells. Furger C, et al. **Mol Hum Reprod** 1996 Apr;2(4):251–7

Cytokine induction of heat shock protein in human granulosa–luteal cells. Kim AH, et al. **Mol Hum Reprod** 1996 Aug;2(8):549–54

Nitric oxide inhibits steroidogenesis in cultured porcine granulosa cells. Masuda M, et al. **Mol Hum Reprod** 1997 Apr;3(4):285–92

Gonadotrophin regulation of production of tissue inhibitor of metalloproteinases–1 by luteinized human granulosa cells: a potential mechanism for luteal rescue. O'Sullivan MJ, et al. **Mol Hum Reprod** 1997 May;3(5):405–10

The human preovulatory follicle is a source of the chemotactic cytokine interleukin–8. Runesson E, et al. **Mol Hum Reprod** 1996 Apr;2(4):245–50

Mammalian oocyte growth in vitro is stimulated by soluble factor(s) produced by preantral granulosa cells and by Sertoli cells. Cecconi S, et al. **Mol Reprod Dev** 1996 Aug; 44(4):540–6

Steroidogenic properties of a spontaneously established porcine granulosa cell line (PGC–2). Kwan I, et al. **Mol Reprod Dev** 1996 Nov;45(3):299–307

Influence of FSH and hCG on the resumption of meiosis of bovine oocytes surrounded by cumulus cells connected to membrana granulosa. van Tol HT, et al. **Mol Reprod Dev** 1996 Oct;45(2):218–24

Role of calcium in luteinization stimulator–enhanced progesterone production of porcine granulosa cells. Danišová A, et al. **Physiol Res** 1995;44(3):185–92

Increased production and release of prostaglandin–E2 by human granulosa cells from polycystic ovaries. Navarra P, et al. **Prostaglandins** 1996 Sep;52(3):187–97

Effects of interleukin–1 beta fragment (163–171) on progesterone and estradiol–17 beta release by bovine granulosa cells from different size follicles. Baratta M, et al. **Regul Pept** 1996 Dec 17;67(3):187–94

Production of extracellular matrix, fibronectin and steroidogenic enzymes, and growth of bovine granulosa cells in anchorage–independent culture. Rodgers RJ, et al. **Reprod Fertil Dev** 1996;8(2):249–57

Bovine granulosa cells express extracellular matrix proteins and their regulators during luteinization in culture. Zhao Y, et al. **Reprod Fertil Dev** 1996;8(2):259–66

Oocyte–secreted factors regulate granulosa cell steroidogenesis. Vanderhyden BC. **Zygote** 1996 Nov; 4(4):317–21

MICROBIOLOGY

In vitro attachment and invasion of chicken ovarian granulosa cells by Salmonella enteritidis phage type 8. Thiagarajan D, et al. **Infect Immun** 1996 Dec; 64(12):5015–21

PATHOLOGY

Long–term growth and steroidogenic potential of human granulosa–lutein cells immortalized with SV40 large T antigen. Lie BL, et al. **Mol Cell Endocrinol** 1996 Jul 1; 120(2):169–76

Expression of Ad4–BP/cytochrome P450 side chain cleavage enzyme and induction of cell death in long–term cultures of human granulosa cells. Breckwoldt M, et al. **Mol Hum Reprod** 1996 Jun;2(6):391–400

Testicular juvenile granulosa cell and Sertoli cell tumours: a clinicopathological study of 29 cases from the Kiel Paediatric Tumour Registry. Harms D, et al. **Virchows Arch** 1997 Apr;430(4):301–9

PHYSIOLOGY

Elimination of apoptotic granulosa cells by intact granulosa cells and macrophages in atretic mature follicles of the guinea pig ovary. Kasuya K. **Arch Histol Cytol** 1997 Jun; 60(2):175–84

Murine oocytes suppress expression of luteinizing hormone receptor messenger ribonucleic acid by granulosa cells. Eppig JJ, et al. **Biol Reprod** 1997 Apr;56(4):976–84

Development of a long–term bovine granulosa cell culture system: induction and maintenance of estradiol production, response to follicle–stimulating hormone, and morphological characteristics. Gutiérrez CG, et al. **Biol Reprod** 1997 Mar;56(3):608–16

A novel hypothalamic peptide, pituitary adenylate cyclase–activating peptide, regulates the function of rat granulosa cells in vitro. Heindel JJ, et al. **Biol Reprod** 1996 Mar;54(3):523–30

Changes in extracellular matrix components and steroidogenic enzymes during growth and atresia of antral ovarian follicles in the sheep. Huet C, et al. **Biol Reprod** 1997 Apr;56(4):1025–34

Granulosa cell apoptosis, aromatase activity, cyclic adenosine 3',5'–monophosphate response to gonadotropins, and follicular fluid steroid levels during spontaneous and induced follicular atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):830–6

Morphological evidence of apoptosis and the prevalence of apoptotic versus mitotic cells in the membrana granulosa of ovarian follicles during spontaneous and induced atresia in ewes. Jolly PD, et al. **Biol Reprod** 1997 Apr;56(4):837–46

In vitro development of bovine embryos in conditioned media from bovine granulosa cells and vero cells cultured in exogenous protein– and amino acid–free chemically defined human tubal fluid medium. Maeda J, et al. **Biol Reprod** 1996 Apr;54(4):930–6

Ovarian granulosa and theca interstitial cells: a morphological and physiological analysis in guanethidine denervated rats at pre–puberty. Rosa e Silva AA, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 May;43(3):409–16

The nuclear receptor SF–1 mediates sexually dimorphic expression of Mullerian Inhibiting Substance, in vivo. Giuili G, et al. **Development** 1997 May;124(9):1799–807

Androgen receptor gene expression in rat granulosa cells: the role of follicle–stimulating hormone and steroid hormones. Tetsuka M, et al. **Endocrinology** 1996 Oct; 137(10):4392–7

A simplified coculture system with luteinized granulosa cells improves embryo quality and implantation rates: a controlled study. Dirnfeld M, et al. **Fertil Steril** 1997 Jan; 67(1):120–2

Subpopulations of human granulosa–luteal cells in natural and stimulated in vitro fertilization–embryo transfer cycles. Gersak K, et al. **Fertil Steril** 1996 Mar;65(3):608–13

Incidence of apoptotic bodies in membrana granulosa of the patients participating in an in vitro fertilization program. Nakahara K, et al. **Fertil Steril** 1997 Feb;67(2):302–8

The cellular activity of different sized follicles in cycles treated with gonadotrophin–releasing hormone analogue. Andreani CL, et al. **Hum Reprod** 1997 Jan;12(1):89–94

Granulosa cells from follicle stimulating hormone–primed monkeys enhance the development competence of in–vitro–matured oocytes from non–stimulated rhesus monkeys. Schramm RD, et al. **Hum Reprod** 1996 Aug; 11(8):1698–702

Nitric oxide concentrations in the follicular fluid and apoptosis of granulosa cells in human follicles. Sugino N, et al. **Hum Reprod** 1996 Nov;11(11):2484–7

Granulosa cell kinetics examined by bromodeoxyuridine in combination with colchicine in the mouse ovarian follicles. Shinohara Y, et al. **In Vivo** 1997 May–Jun;11(3):249–52

Simulation of human luteal endocrine function with granulosa lutein cell culture. Stewart DR, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3078–83

Prostaglandin E2 induces inhibin alpha– and beta A–subunit mRNA and secretion of dimeric inhibin A in cultured human granulosa–luteal cells. Erämaa M, et al. **Mol Hum Reprod** 1996 Nov;2(11):815–22

Thyroid hormone as a regulator of basal and human chorionic gonadotrophin–stimulated steroidogenesis by cultured porcine theca and granulosa cells isolated at different stages of the follicular phase. Gregoraszczuk EL, et al. **Reprod Fertil Dev** 1996;8(6):961–7

Alterations in the cell cycle of mouse cumulus granulosa cells during expansion and mucification in vivo and in vitro. Schuetz AW, et al. **Reprod Fertil Dev** 1996;8(6):935–43

Apoptosis in steroidogenic cells: structure–function analysis. Amsterdam A, et al. **Steroids** 1997 Jan;62(1):207–11 (33 ref.)

Cross–talk between cAMP and p53–generated signals in induction of differentiation and apoptosis in steroidogenic granulosa cells. Amsterdam A, et al. **Steroids** 1996 Apr; 61(4):252–6 (49 ref.)

Influence of granulosa cells and of different somatic cell types on mammalian oocyte development in vitro. Cecconi S, et al. **Zygote** 1996 Nov;4(4):305–7 (34 ref.)

Co–culture with pig membrana granulosa cells modulates the activity of cdc2 and MAP kinase in maturing cattle oocytes. Motlik J, et al. **Zygote** 1996 Aug;4(3):247–56

Endocrine and paracrine regulation of cumulus expansion. Salustri A, et al. **Zygote** 1996 Nov;4(4):313–5 (13 ref.)

GRANULOSA CELLS

RADIATION EFFECTS

Morphology and steroidogenesis of cultured granulosa cells obtained from ovaries of women treated with ionizing radiation. Skrzypczak J. **Folia Histochem Cytobiol** 1997; 35(1):29–33

SECRETION

Cytokine modulation of inhibin secretion in cultured rat granulosa cells. Imai M, et al. **J Endocrinol** 1996 Dec; 151(3):449–57

Inter–relationships between nonapeptide hormones and cyclic nucleotides within cultured porcine granulosa cells. Sirotkin AV. **J Endocrinol** 1996 Aug;150(2):343–8

ULTRASTRUCTURE

Analysis of atresia in bovine follicles using different methods: flow cytometry, enzyme–linked immunosorbent assay, and classic histology. Blondin P, et al. **Biol Reprod** 1996 Mar; 54(3):631–7

GRANULOSIS VIRUSES see **BACULOVIRIDAE**

GRANULOVIRUS see **BACULOVIRIDAE**

GRAPES see **FRUIT**

GRAPHITE

Electrical injuries from graphite fishing rods. Chi L, et al. **Burns** 1996 Dec;22(8):638–40

Mechanical cardiac valve prostheses: wear characteristics and magnitudes in three bileaflet valves. Elizondo DR, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S115–23; discussion 144–8

Separation of oligomers of nonylphenyl ethylene oxide [correction of nonlphenylethylene oxide] on a porous graphitized carbon column. Cserháti T, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1303–7

A cohort study of graphite workers in Sri Lanka. Uragoda CG. **Occup Med (Oxf)** 1997 Jul;47(5):269–72

Evaluation of stearate–graphite paste electrodes for chronic measurement of extracellular dopamine concentrations in the mammalian brain. Blaha CD. **Pharmacol Biochem Behav** 1996 Nov;55(3):351–64

CHEMISTRY

Carbon–based packing materials for liquid chromatography: applications. Ross P, et al. **Adv Chromatogr** 1997;37:121–62 (64 ref.)

Effect of physicochemical parameters on the retention of some monoamine oxidase inhibitory drugs on a porous graphitized carbon column. Forgács E, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):197–204

Electron energy–loss spectroscopy study of amorphization process of graphite bombarded with hydrogen ions and energetic electrons at low temperatures. Kushita KN, et al. **J Electron Microsc (Tokyo)** 1995 Dec;44(6):456–61

Reversible and irreversible immobilization of enzymes on Graphite Fibrils. Dong L, et al. **J Mol Recognit** 1996 Sep–Dec;9(5–6):383–8

PHARMACOLOGY

[The characteristics of the contact area of an endoprosthesis made from Ostek graphite–based material and of the mandibular bone fragment] Grigor'ian AS, et al. **Stomatologiia (Mosk)** 1996;75(2):4–8 (Eng. Abstr.) **(Rus)**

TOXICITY

[Changes in the state of monooxygenase system and lipid peroxidation under the effects of carcinogenic dust] Kuz'mina LP, et al. **Med Tr Prom Ekol** 1997;(4):15–8 (Eng. Abstr.) **(Rus)**

GRASP see **HAND STRENGTH**

GRASSES

see related

POLLEN

Efficacy of mequitazine in comparison with placebo assessed by ocular challenge with allergen in allergic conjunctivitis. Persi L, et al. **Allergy** 1997 Apr;52(4):451–4

Grazing and anthelmintic treatments to increase growth of Cashmere and Angora weaner goats [published erratum appears in Aust Vet J 1996 Nov;74(5):400] Robertson JA, et al. **Aust Vet J** 1996 Sep;74(3):246–8

Effects of two pasture systems on faecal nematode egg counts in breeding ewes. Saul GR. **Aust Vet J** 1996 Aug; 74(2):154–5

Net flux of nutrients across splanchnic tissues in wethers consuming grasses of different sources and physical forms ad libitum. Goetsch AL, et al. **Br J Nutr** 1997 May; 77(5):769–81

Allergic contact dermatitis from grasses. Koh D, et al. **Contact Dermatitis** 1997 Jul;37(1):32–4

Temephos distribution and persistence in a southwest Florida salt marsh community. Pierce R, et al. **J Am Mosq Control Assoc** 1996 Dec;12(4):637–46

Effects of open marsh water management on selected tidal marsh resources: a review. Wolfe RJ. **J Am Mosq Control Assoc** 1996 Dec;12(4):701–12 (83 ref.)

Temporal effects on steer performance and nutritive values for eastern gamagrass grazed continuously for different durations. Aiken GE. **J Anim Sci** 1997 Mar;75(3):803–8

Milk production in Angus, Brahman, and reciprocal–cross cows grazing common bermuda grass or endophyte–infected tall fescue. Brown MA, et al. **J Anim Sci** 1996 Sep;74(9):2058–66

The effect of preservation method on the neutral detergent soluble fraction of forages. Doane PH, et al. **J Anim Sci** 1997 Apr;75(4):1140–8

Effect of enzyme preparations on in situ and in vitro degradation and in vivo digestive characteristics of mature cool–season grass forage in beef steers. Feng P, et al. **J Anim Sci** 1996 Jun;74(6):1349–57

Forage intake by and site and extent of digestion in beef cattle grazing midgrass prairie rangeland or plains bluestem pasture throughout the summer. Gunter SA, et al. **J Anim Sci** 1997 Feb;75(2):490–501

Effect of rotational vs continuous intensive stocking of bahiagrass on performance of Angus cows and calves and interaction with sire type on gastrointestinal nematode burden. Hammond AC, et al. **J Anim Sci** 1997 Sep; 75(9):2291–9

Early–vegetative tall fescue hay vs alfalfa hay as a supplement for cattle consuming low–quality roughages. Horney MR, et al. **J Anim Sci** 1996 Aug;74(8):1959–66

Effect of increasing degradable intake protein on intake and digestion of low–quality, tallgrass–prairie forage by beef cows. Köster HH, et al. **J Anim Sci** 1996 Oct; 74(10):2473–81

Limit–feeding corn as an alternative to hay for gestating beef cows. Loerch SC. **J Anim Sci** 1996 Jun;74(6):1211–6

Performance of growing lambs fed two levels of concentrate with conventional or macerated timothy hay. Petit HV, et al. **J Anim Sci** 1997 Mar;75(3):598–603

Mineral status in beef cows fed broiler litter diets with cation–anion differences or supplemented with hay. Rude BJ, et al. **J Anim Sci** 1997 Mar;75(3):727–35

Assessment of the mitogenic potential of the alkaloids produced by endophyte (Acremonium coenophialum)–infected tall fescue (Festuca arundinacea) on bovine vascular smooth muscle in vitro. Strickland JR, et al. **J Anim Sci** 1996 Jul;74(7):1664–71

Performance of Angus and Brangus cow–calf pairs grazing Alicia bermudagrass and common bermudagrass–dallisgrass pastures. Wyatt WE, et al. **J Anim Sci** 1997 Jul; 75(7):1926–33

Nutrient fluxes in splanchnic tissue of dairy cows: influence of grass quality. De Visser H, et al. **J Dairy Sci** 1997 Aug; 80(8):1666–73

Relationships between in situ protein degradability and grass developmental morphology. Mitchell RB, et al. **J Dairy Sci** 1997 Jun;80(6):1143–9

Kinetics of cell–wall digestion of orchardgrass and alfalfa silages treated with cellulase and formic acid. Nadeau EM, et al. **J Dairy Sci** 1996 Dec;79(12):2207–16

Entomopathogenic nematode (Heterorhabditidae and Steinernematidae) spatial distribution in turfgrass. Campbell JF, et al. **Parasitology** 1996 Nov;113 (Pt 5):473–82

Bronchiectasis resulting from aspirated grass inflorescences. Başok O, et al. **Scand Cardiovasc J** 1997;31(3):157–9 (8 ref.)

Repellence of the tick Rhipicephalus appendiculatus by the grass Melinis minutiflora. Mwangi EN, et al. **Trop Anim Health Prod** 1995 Nov;27(4):211–6

Metoclopramide and (or) cimetidine administration to sheep fed tall fescue. Rankins DL Jr. **Vet Hum Toxicol** 1996 Jun; 38(3):173–6

An attempt to reproduce 'mal seco' in horses by feeding them Festuca argentina. Uzal FA, et al. **Vet Rec** 1996 Jul 20; 139(3):68–70

[Effect of moldy grass on intraluminal fermentation and thiamine metabolism in cattle (in vitro)] Höltershinken M, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jan; 104(1):17–22 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Dislodgeability of chlorpyrifos and fluorescent tracer residues on turf: comparison of wipe and foliar wash sampling techniques. Black KG, et al. **Arch Environ Contam Toxicol** 1996 Nov;31(4):563–70

Fate of selected pesticides applied to turfgrass: effect of composting on residues. Vandervoort C, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):38–45

Comparison of natural and recombinant isoforms of grass pollen allergens. Petersen A, et al. **Electrophoresis** 1997 May;18(5):819–25

Primary structure and allergenic activity of trypsin inhibitors from the seeds of buckwheat (Fagopyrum esculentum Moench). Park SS, et al. **FEBS Lett** 1997 Jan 2;400(1):103–7

Immunologic and physicochemical studies of Bermuda grass pollen antigen BG60. Su SN, et al. **J Allergy Clin Immunol** 1996 Sep;98(3):486–94

The carbohydrate moiety of the bermuda grass antigen BG60. New oligosaccharides of plant origin. Ohsuga H, et al. **J Biol Chem** 1996 Oct 25;271(43):26653–8

Determination of phenoxy acid herbicides in vegetation, utilising high–resolution gel permeation chromatographic clean–up and methylation with trimethylsilyldiazomethane prior to gas chromatographic analysis with mass–selective detection. Rimmer DA, et al. **J Chromatogr A** 1996 Dec 6;755(2):245–50

Alkaloids from endophyte–infected Festuca argentina. Casabuono AC, et al. **J Ethnopharmacol** 1997 Jun;57(1):1–9

Linear, steroidal, and triterpene esters, and steryl glycosides from Festuca argentina. Casabuono AC, et al. **Lipids** 1997 Feb;32(2):205–10

Photosensitivity in South Africa. IX. Structure elucidation of a beta–glucosidase–treated saponin from Tribulus terrestris, and the identification of saponin chemotypes of South African T. terrestris. Wilkins AL, et al. **Onderstepoort J Vet Res** 1996 Dec;63(4):327–34

Transfer of radiocaesium in sensitive agricultural environments after the Chernobyl fallout in Sweden. I. County of Gavleborg. Rosen K, et al. **Sci Total Environ** 1996 Apr 5;182(1–3):117–33

Transfer of radiocaesium in sensitive agricultural environments after the Chernobyl fallout in Sweden. II. Marginal and semi–natural areas in the county of Jamtland. Rosen K. **Sci Total Environ** 1996 Apr 5;182(1–3):135–45

[Isolation and study of the effect of zosterin, a pectin in sea grass from the White Sea, on the endocrine and immune systems] Korneichev ON, et al. **Dokl Akad Nauk** 1997 Jan; 352(1):121–3 **(Rus)**

CLASSIFICATION

Phylogeny of Poaceae subfamily Pooideae based on chloroplast ndhF gene sequences. Catalán P, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):150–66

Evolution of alcohol dehydrogenase genes in the palm and grass families. Morton BR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11735–9

DRUG EFFECTS

[137Cs accumulation by grasses from peat soil under increasing amounts of potassium and nitrogen fertilizers] Drichko VF, et al. **Radiats Biol Radioecol** 1996 Jul–Aug; 36(4):524–30 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

3'–flanking region of a family 1 beta–glucosidase gene [letter] Rojas A, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):693–4

GENETICS

Labelling telomeres of cereals, grasses and clover by primed in situ DNA labelling. Thomas HM, et al. **Chromosome Res** 1996 Apr;4(3):182–4

Characterization of the translocated chromosome using fluorescence in situ hybridization and random amplified polymorphic DNA on two Triticum aestivum–Thinopyrum intermedium translocation lines resistant to wheat streak mosaic or barley yellow dwarf virus. Wang RR, et al. **Chromosome Res** 1996 Dec;4(8):583–7

Deficiency of cox1 gene expression in wheat plants with Aegilops columnaris cytoplasm. Ikeda TM, et al. **Curr Genet** 1996 Dec;30(6):509–14

Distribution and complex organization of satellite DNA sequences in Aveneae species. Grebenstein B, et al. **Genome** 1996 Dec;39(6):1045–50

The unified grass genome: synergy in synteny. Bennetzen JL, et al. **Genome Res** 1997 Apr;7(4):301–6 (40 ref.)

Host genetic and adjuvant factors influence epitope specificity to a major recombinant grass allergen. Yang M, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):173–81

Development of an immunoradiometric assay for quantitative determination of CrylA(b) protein in transgenic sugarcane plants. Vázquez RI, et al. **J Immunol Methods** 1996 Sep 13;196(1):33–9

Comparisons of the molecular evolutionary process at rbcL and ndhF in the grass family (Poaceae). Gaut BS, et al. **Mol Biol Evol** 1997 Jul;14(7):769–77

Phylogeny of Poaceae subfamily Pooideae based on chloroplast ndhF gene sequences. Catalán P, et al. **Mol Phylogenet Evol** 1997 Oct;8(2):150–66

Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA sequence data. Petersen G, et al. **Mol Phylogenet Evol** 1997 Apr;7(2):217–30

Gene identification in a complex chromosomal continuum by local genomic cross–referencing. Avramova Z, et al. **Plant J** 1996 Dec;10(6):1163–8

A self–fertile mutant of Phalaris produces an S protein with reduced thioredoxin activity. Li X, et al. **Plant J** 1996 Sep; 10(3):505–13

Isolation of a full–length cDNA encoding polyphenol oxidase from sugarcane, a C4 grass. Bucheli CS, et al. **Plant Mol Biol** 1996 Sep;31(6):1233–8

Public informatics resources for rice and other grasses. Cartinhour SW. **Plant Mol Biol** 1997 Sep;35(1–2):241–51 (71 ref.)

Comparative genetics in the grasses. Devos KM, et al. **Plant Mol Biol** 1997 Sep;35(1–2):3–15 (69 ref.)

A chloroplast derived trnH gene is expressed in the mitochondrial genome of gramineous plants. Kanno A, et al. **Plant Mol Biol** 1997 May;34(2):353–6

Self–incompatibility in the grasses: evolutionary relationship of the S gene from Phalaris coerulescens to homologous sequences in other grasses. Li X, et al. **Plant Mol Biol** 1997 May;34(2):223–32

Comparative gene expression in sexual and apomictic ovaries of Pennisetum ciliare (L.) Link. Vielle–Calzada JP, et al. **Plant Mol Biol** 1996 Dec;32(6):1085–92

The sorghum photoperiod sensitivity gene, Ma3, encodes a

phytochrome B. Childs KL, et al. **Plant Physiol** 1997 Feb; 113(2):611–9

Substitution rate comparisons between grasses and palms: synonymous rate differences at the nuclear gene Adh parallel rate differences at the plastid gene rbcL. Gaut BS, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10274–9

The Hybaid Lecture. Microcollinearity and segmental duplication in the evolution of grass nuclear genomes. Bennetzen JL, et al. **Symp Soc Exp Biol** 1996;50:1–3

IMMUNOLOGY

Characterization of group 1 allergens from eleven grass species. Aasmul-Olsen S, et al. **Adv Exp Med Biol** 1996; 409:261–5

Distribution of total serum IgE and specific IgE to common aeroallergens by sex and age, and their relationship to each other in a random sample of the Dutch general population aged 20–70 years. Dutch ECRHS Group, European Community Respiratory Health Study. Kerkhof M, et al. **Allergy** 1996 Nov;51(11):770–6

Group 5 determination in Pooideae grass pollen extracts by monoclonal antibody-based ELISA. Correlation with biologic activity. Ramírez J, et al. **Allergy** 1997 Aug; 52(8):806–13

The perennial pattern of clinical symptoms in children monosensitized to Olea europaea pollen allergens in comparison with subjects with Parietaria and Gramineae pollinosis. Liccardi G, et al. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):99–105

Design of an optimally-diagnostic skin test solution for diagnosis of sensitivity to timothy grass (Phleum pratense) pollen. Wheeler AW, et al. **Clin Exp Allergy** 1996 Aug; 26(8):897–902

Molecular cloning and immunological characterisation of Cyn d 7, a novel calcium-binding allergen from Bermuda grass pollen. Suphioglu C, et al. **FEBS Lett** 1997 Feb 3; 402(2–3):167–72

Expression in Escherichia coli of human IgE antibody fragments with specificity for major timothy grass pollen allergens using the combinatorial library approach. Steinberger P, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):258–9

Host genetic and adjuvant factors influence epitope specificity to a major recombinant grass allergen. Yang M, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):173–81

Allergen-driven limiting dilution analysis of human IL-4 and IFN-gamma production in allergic rhinitis and clinically tolerant individuals. Li Y, et al. **Int Immunol** 1996 Jun; 8(6):897–904

Mapping of an allergenically important determinant of grass group I allergens. Hiller KM, et al.
J Allergy Clin Immunol 1997 Sep;100(3):335–40

Hypersensitivity pneumonitis in workers exposed to esparto grass (Stipa tenacissima) fibers. Hinojosa M, et al.
J Allergy Clin Immunol 1996 Nov;98(5 Pt 1):985–91

Is cross-reactivity a real or an imaginary concept? [letter] Mohapatra SS. **J Allergy Clin Immunol** 1997 May;99(5):724

Ubiquitous structures responsible for IgE cross-reactivity between tomato fruit and grass pollen allergens. Petersen A, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):805–15

Short-term immunotherapy: a prospective, randomized, double-blind, placebo-controlled multicenter study of molecular standardized grass and rye allergens in patients with grass pollen-induced allergic rhinitis. Zenner HP, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):23–9

An immunoblotting analysis of cross-reactivity between melon, and plantago and grass pollens. García Ortiz JC, et al. **J Investig Allergol Clin Immunol** 1996 Nov–Dec; 6(6):378–82

Cloning, sequencing and immunological characterization of Dac g 3, a major allergen from Dactylis glomerata pollen. Guérin-Marchand C, et al. **Mol Immunol** 1996 Jun; 33(9):797–806

[Lawn grass (Poaceae) causing hayfever in the South Plain of Hungary. Results of aeropalinologic and allergologic studies 1989–95] Kadocsa E, et al. **Orv Hetil** 1997 Apr 6;138(14):851–4 (Eng. Abstr.) **(Hun)**

[The effect of specific immunotherapy on the concentration of some chemokines in BALF in patients with atopic bronchial asthma] Jahnz-Różyk K, et al.
Pol Merkuriusz Lek 1996 Oct;1(4):223–6 (Eng. Abstr.) **(Pol)**

METABOLISM

Oxygen consumption by splanchnic tissues in wethers consuming ad libitum different proportions of bermudagrass and ryegrass-wheat. Goetsch AL, et al.
Arch Tierernahr 1997;50(1):1–11

Fate of vinclozolin in creeping bentgrass turf under two application frequencies. Frederick EK, et al.
Bull Environ Contam Toxicol 1996 Sep;57(3):391–7

Flow cytometric analysis of cytosolic pH of mesophyll cell protoplasts from the crabgrass Digitaria sanguinalis. Giglioli-Guivarc'h N, et al. **Cytometry** 1996 Mar 1; 23(3):241–9

Bioextraction of selenium by forage and selected field legume species in selenium-laden soils under minimal field management conditions. Van Mantgem PJ, et al.
Ecotoxicol Environ Saf 1996 Aug;34(3):228–38

Cottonseed meal or feather meal supplementation of ammoniated tropical grass hay for yearling cattle. Brown WF, et al. **J Anim Sci** 1997 Jun;75(6):1666–73

Changes in forage quality, ingestive mastication, and digesta kinetics resulting from switchgrass maturity. Burns JC, et al. **J Anim Sci** 1997 May;75(5):1368–79

Digestibility, apparent mineral absorption, and voluntary intake by horses fed alfalfa, tall fescue, and caucasian bluestem. Crozier JA, et al. **J Anim Sci** 1997 Jun; 75(6):1651–8

Effect of increasing proportion of supplemental nitrogen from urea on intake and utilization of low-quality, tallgrass-prairie forage by beef steers. Köster HH, et al. **J Anim Sci** 1997 May;75(5):1393–9

15N estimates of dinitrogen fixation in alfalfa-weeping lovegrass swards under field conditions. Lázzari MA, et al. **Rev Argent Microbiol** 1996 Oct–Dec;28(4):175–81

[Fermentation process during the ensiling of green forage low in nitrate. 2. Fermentation process after supplementation of nitrate, nitrite, lactic acid bacteria and formic acid] Kaiser E, et al. **Arch Tierernahr** 1997; 50(2):187–200 (Eng. Abstr.) **(Ger)**

[137Cs accumulation by grasses from peat soil under increasing amounts of potassium and nitrogen fertilizers] Drichko VF, et al. **Radiats Biol Radioecol** 1996 Jul–Aug; 36(4):524–30 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

PCR assay based on a microsatellite-containing locus for detection and quantification of Epichloë endophytes in grass tissue. Groppe K, et al. **Appl Environ Microbiol** 1997 Apr;63(4):1543–50

Spook house sporotrichosis. A point-source outbreak of sporotrichosis associated with hay bale props in a Halloween haunted-house. Dooley DP, et al.
Arch Intern Med 1997 Sep 8;157(16):1885–7 (09 ref.)

Genotype x environment interactions in Angus, Brahman, and reciprocal cross cows and their calves grazing common bermudagrass and endophyte-infected tall fescue pastures. Brown MA, et al. **J Anim Sci** 1997 Apr;75(4):920–5

Mechanisms of biocontrol by Pantoea dispersa of sugar cane leaf scald disease caused by Xanthomonas albilineans. Zhang L, et al. **J Appl Microbiol** 1997 Apr;82(4):448–54

Effect of dietary supplementation with vitamin E for lactating dairy cows fed tall fescue hay infected with endophyte. Jackson JA, et al. **J Dairy Sci** 1997 Mar;80(3):569–72

Lignocellulolysis by ascomycetes (fungi) of a saltmarsh grass (smooth cordgrass). Newell SY, et al.
Microsc Res Tech 1996 Jan 1;33(1):32–46

Toxic and antibiotic properties of red thread, Laetisaria fuciformis. di Menna ME, et al. **Mycopathologia** 1996; 135(3):187–90

Analysis of Fusarium causing dermal toxicosis in marram grass planters. Snijders CH, et al. **Mycopathologia** 1996; 135(2):119–28

[Contaminated esparto fibers: the cause of extrinsic allergic alveolitis (letter) (see comments)] Fraj Lázaro J, et al.
Arch Bronconeumol 1997 May;33(5):258–9. Comment in: Arch Bronconeumol 1996 Oct;32(8):377–8. **(Spa)**

PARASITOLOGY

Seasonal changes in the level of infective strongylate nematode larvae on pasture in the coastal savanna regions of Ghana. Agyei AD. **Vet Parasitol** 1997 Jun; 70(1–3):175–82

PHYSIOLOGY

The phytochrome gene family in grasses (Poaceae): a phylogeny and evidence that grasses have a subset of the loci found in dicot angiosperms. Mathews S, et al.
Mol Biol Evol 1996 Oct;13(8):1141–50

Group I allergens of grass pollen as cell wall-loosening agents. Cosgrove DJ, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6559–64

[Fermentation process during the ensiling of green forage low in nitrate. 1. Fermentation process in untreated green forage] Kaiser E, et al. **Arch Tierernahr** 1997;50(1):87–102 (Eng. Abstr.) **(Ger)**

RADIATION EFFECTS

[Populations of higher plants found in the area of influence of the Semipalatinsk proving grounds] Pel'tek SE, et al. **Tsitol Genet** 1996 Jul–Aug;30(4):9–14 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Lignocellulolysis by ascomycetes (fungi) of a saltmarsh grass (smooth cordgrass). Newell SY, et al.
Microsc Res Tech 1996 Jan 1;33(1):32–46

GRASSHOPPERS

Photoinactivation of an identified motoneurone in the locust Locusta migratoria. Bässler D, et al. **J Exp Biol** 1996 Nov; 199 (Pt 11):2369–82

Molecular cloning of the precursor cDNA for schistostatins, locust allatostatin-like peptides with myoinhibiting properties. Vanden Broeck J, et al. **Mol Cell Endocrinol** 1996 Sep 18;122(2):191–8

Insect adipokinetic hormone stimulates inositol phosphate metabolism: roles for both Ins(1,4,5)P3 and Ins(1,3,4,5)P4 in signal transduction? Van Marrewijk WJ, et al.
Mol Cell Endocrinol 1996 Sep 18;122(2):141–50

Isolation and characterization of eight myoinhibiting peptides from the desert locust, Schistocerca gregaria: new members of the cockroach allatostatin family. Veelaert D, et al.
Mol Cell Endocrinol 1996 Sep 18;122(2):183–90

Regioselective formation of the three disulfide bonds of a 35-residue insect peptide. Kellenberger C, et al.
Pept Res 1995 Nov–Dec;8(6):321–7

ANATOMY & HISTOLOGY

Neuroarchitecture of the lower division of the central body in the brain of the locust (Schistocerca gregaria). Müller M, et al. **Cell Tissue Res** 1997 Apr;288(1):159–76

Antennal lobe interneurons in the desert locust Schistocerca gregaria (Forskal): processing of aggregation pheromones in adult males and females. Anton S, et al.
J Comp Neurol 1996 Jun 17;370(1):85–96

Structure of the forewing stretch receptor axon in immature and mature adult locusts. Gray JR, et al.
J Comp Neurol 1996 Feb 5;365(2):268–77

Datura stramonium lectin staining of glial associated extracellular material in insect brains. Hähnlein I, et al.
J Comp Neurol 1996 Dec 9;376(2):175–87

Morphology of locust neurosecretory cells projecting into the Nervus corporis allati II of the suboesophageal ganglion. Bräunig P, et al. **Microsc Res Tech** 1996 Oct 15; 35(3):230–41

CHEMISTRY

Isolation and characterization of an adipokinetic hormone release-inducing factor in locusts: the crustacean cardioactive peptide. Veelaert D, et al. **Endocrinology** 1997 Jan;138(1):138–42

Distribution of Dip-allatostatin I-like immunoreactivity in the brain of the locust Schistocerca gregaria with detailed analysis of immunostaining in the central complex. Vitzthum H, et al. **J Comp Neurol** 1996 Jun 3;369(3):419–37

Constrained refinement based on NOE and chemical shift information: the monomer form of
arginine-vasopressin-like insect factor. Busetta B, et al.
J Pept Sci 1997 Mar–Apr;3(2):133–40

Circulating levels of Locusta diuretic hormone: the effects of feeding. Audsley N, et al. **Peptides** 1997;18(1):59–65

Peptides in the locusts, Locusta migratoria and Schistocerca gregaria. Schoofs L, et al. **Peptides** 1997;18(1):145–56 (152 ref.)

Quantification of Locusta diuretic hormone in the central nervous system and corpora cardiaca: influence of age and feeding status, and mechanism of release. Audsley N, et al. **Regul Pept** 1997 Mar 12;69(1):25–32

Isolation and characterization of schistostatin-2(11–18) from the desert locust, Schistocerca gregaria: a truncated analog of schistostatin-2. Veelaert D, et al. **Regul Pept** 1996 Dec 17;67(3):195–9

CYTOLOGY

Scanning electron microscopy of heterochromatin in chromosome spreads of male germ cells in Schistocerca gregaria (Acrididae, Orthoptera) after trypsinization. Wolf KW, et al. **Biotech Histochem** 1996 Sep;71(5):237–44

Characterization of a new neurosecretory cell type containing gastrin-cholecystokinin-like peptide in the locust pars intercerebralis: ultrastructural and immunocytochemical studies, in situ and in vitro. Tamarelle M, et al. **J Neurocytol** 1997 Jun;26(6):399–406

DRUG EFFECTS

Impacts on nontarget insects of a new insecticide compound used against the desert locust [Schistocerca gregaria (Forskål 1775)]. Balança G, et al.
Arch Environ Contam Toxicol 1997 Jan;32(1):58–62

EMBRYOLOGY

Cellularization in locust embryos occurs before blastoderm formation. Ho K, et al. **Development** 1997 Jul; 124(14):2761–8

Contributions of an orthopteran to the understanding of neuronal pathfinding. Sanchez D, et al.
Immunol Cell Biol 1995 Dec;73(6):565–74 (55 ref.)

Embryonic development of the enteric nervous system of the grasshopper Schistocerca americana. Ganfornina MD, et al. **J Comp Neurol** 1996 Sep 2;372(4):581–96

ENZYMOLOGY

The insect cytochrome oxidase I gene: evolutionary patterns and conserved primers for phylogenetic studies. Lunt DH, et al. **Insect Mol Biol** 1996 Aug;5(3):153–65

GENETICS

Preparation of insect chromosomes for immunolabeling. Wolf KW, et al. **Biotech Histochem** 1996 May;71(3):137–44

Geographical distribution of B chromosomes in the grasshopper Eyprepocnemis plorans, along a river basin, is mainly shaped by non-selective historical events. Cabrero J, et al. **Chromosome Res** 1997 May;5(3):194–8

Cloning and upstream sequence of a juvenile hormone-regulated gene from the migratory locust. Zhang J, et al. **Gene** 1996 Oct 10;175(1–2):193–7

Chiasma interference is blind to centromeres. Colombo PC,

GRASSHOPPERS

et al. **Heredity** 1997 Aug;79 (Pt 2):214–27 (46 ref.)
Nuclear DNA sequence divergence between parapatric subspecies of the grasshopper Chorthippus parallelus. Cooper SJ, et al. **Insect Mol Biol** 1993;2(3):185–94
Organization of the Hox gene cluster in the grasshopper, Schistocerca gregaria. Ferrier DE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13024–9

GROWTH & DEVELOPMENT

Development of a mechanosensory pathway in the locust. Pflüger HJ, et al. **Acta Biol Hung** 1995;46(2–4):481–3
Vitellogenin titres in normal and accelerated maturation of gregarious-phase Schistocerca gregaria. Mahamat H, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Apr; 116(4):447–51
Excitatory interactions between antagonistic motor neurones underlying locust kicking and jumping during maturation after the adult moult. Norman AP. **J Comp Physiol [A]** 1997 Sep;181(3):231–7

METABOLISM

Purification of a novel, heat-stable serine protease inhibitor protein from ovaries of the desert locust, Schistocerca gregaria. Hamdaoui A, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):357–60
Preparation of insect chromosomes for immunolabeling. Wolf KW, et al. **Biotech Histochem** 1996 May;71(3):137–44
Immunolocalization of kinesin and cytoplasmic dynein in the retina of the locust Schistocerca gregaria. Stürmer K, et al. **Cell Tissue Res** 1996 Dec;286(3):547–9
Structures, assays and receptors for locust adipokinetic hormones. Goldsworthy GJ, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Aug; 117(4):483–96 (136 ref.)
The nitric oxide/cyclic GMP messenger system in olfactory pathways of the locust brain. Bicker G, et al. **Eur J Neurosci** 1996 Dec;8(12):2635–43
False positive immunostaining of Locusta neurosecretory cells with a variety of preimmune sera. Tips A, et al. **Gen Comp Endocrinol** 1997 May;106(2):231–40
GABAergic synapses in the antennal lobe and mushroom body of the locust olfactory system. Leitch B, et al. **J Comp Neurol** 1996 Sep 2;372(4):487–514
Inhibitory action of the defensive discharge of the grasshopper, Poecilocerus pictus, on certain enzymes in the lizard, Calotes nemoricola. Sreenivasulu Y, et al. **J Enzyme Inhib** 1996 Oct;11(2):135–40
Nature and control of chloride transport in insect absorptive epithelia. Phillips JE, et al. **J Exp Zool** 1996 Jul 1; 275(4):292–9 (47 ref.)
Differential induction of inositol phosphate metabolism by three adipokinetic hormones. Vroemen SF, et al. **Mol Cell Endocrinol** 1997 Jun 20;130(1–2):131–9
Inhibition of neuronal high voltage-activated calcium channels by insect peptides: a comparison with the actions of omega-conotoxin GVIA. Scott RH, et al. **Neuropharmacology** 1997 Feb;36(2):195–208
Influence of methylation or substitution of the histidine of HVFLRFamide on biological activity and binding of locust oviduct. Lange AB, et al. **Peptides** 1996;17(3):375–80
Synthesis and biological activity of adipokinetic hormone analogues modified at the C-terminus. Lee MJ, et al. **Peptides** 1996;17(8):1285–90
N-terminal modifications to AKH-I from Locusta migratoria: assessment of biological potencies in vivo and in vitro. Lee MJ, et al. **Regul Pept** 1997 Mar 26;69(2):69–76

PHYSIOLOGY

Dorsal unpaired median (DUM) neurones with neurohaemal functions in the locust, Locusta migratoria. Bräunig P. **Acta Biol Hung** 1995;46(2–4):471–9
Neural parameters contributing to temperature compensation in the flight CPG of the locust, Locusta migratoria. Xu H, et al. **Brain Res** 1996 Sep 23;734(1–2):213–22
Central olfactory pathways in mosquitoes and other insects. Anton S. **Ciba Found Symp** 1996;200:184–92; discussion 192–6, 226–32 (20 ref.)
Cytochemical evidence for nitric oxide/cyclic GMP signal transmission in the visual system of the locust. Bicker G, et al. **Eur J Neurosci** 1997 Jan;9(1):189–93
The concerted activity in parallel proprioceptive pathways controls the initiation of co-activation in the locust kick motor programme. Jellema T, et al. **Eur J Neurosci** 1997 Jan;9(1):55–64
Movement-sensitive, polarization-sensitive, and light-sensitive neurons of the medulla and accessory medulla of the locust, Schistocerca gregaria. Homberg U, et al. **J Comp Neurol** 1997 Sep 29;386(3):329–46
Morphology and physiology of abdominal projection interneurones in the locust with mechanosensory inputs from ovipositor hair receptors. Kalogianni E. **J Comp Neurol** 1996 Mar 18;366(4):656–73
Trehalose inhibits the release of adipokinetic hormones from the corpus cardiacum in the African migratory locust, Locusta migratoria, at the level of the adipokinetic cells. Passier PC, et al. **J Endocrinol** 1997 May;153(2):299–305
Interaction of an insect lipoprotein with its binding site at the fat body. Dantuma NP, et al. **J Lipid Res** 1996 Jun; 37(6):1345–55
Peptidergic activation of locust dorsal unpaired median neurons: depolarization induced by locustatachykinins may be mediated by cyclic AMP. Lundquist CT, et al. **J Neurobiol** 1997 Sep;33(3):297–315
Proctolin's role in neurally evoked contractions of the locust oviducts. Noronha KF, et al. **J Neurobiol** 1997 Aug; 33(2):139–50
Exposure to heat shock affects thermosensitivity of the locust flight system. Robertson RM, et al. **J Neurobiol** 1996 Mar; 29(3):367–83
Selective activity of a proctolin analogue reveals the existence of two receptor subtypes. Baines RA, et al. **J Neurophysiol** 1996 Jun;75(6):2647–50
Dynamics of neurons controlling movements of a locust hind leg. III. Extensor tibiae motor neurons. Newland PL, et al. **J Neurophysiol** 1997 Jun;77(6):3297–310
Local control of leg movements and motor patterns during grooming in locusts. Berkowitz A, et al. **J Neurosci** 1996 Dec 15;16(24):8067–78
Central generation of grooming motor patterns and interlimb coordination in locusts. Berkowitz A, et al. **J Neurosci** 1996 Dec 15;16(24):8079–91
A radiotelemetric 2-channel unit for transmission of muscle potentials during free flight of the desert locust, Schistocerca gregaria. Fischer H, et al. **J Neurosci Methods** 1996 Jan;64(1):39–45
Distinct mechanisms for synchronization and temporal patterning of odor-encoding neural assemblies. MacLeod K, et al. **Science** 1996 Nov 8;274(5289):976–9
Primary structure of locust opsins: a speculative model which may account for ultraviolet wavelength light detection. Towner P, et al. **Vision Res** 1997 Mar;37(5):495–503

GRATEFUL MED

Computer indexing of journal references [letter] Harris NR. **Plast Reconstr Surg** 1997 Jun;99(7):2120

ORGANIZATION & ADMINISTRATION

The NLM and Grateful Med: promise, public health, and policy. Lindberg DA. **Public Health Rep** 1996 Nov-Dec; 111(6):552–5

UTILIZATION

Comparison of fixed-fee Grateful Med database use and searching success rates given the continued availability of MEDLINE in other formats. Blecic DD. **Bull Med Libr Assoc** 1996 Oct;84(4):507–12
Promotion of health information access via Grateful Med and Loansome Doc: why isn't it working? Burnham JF, et al. **Bull Med Libr Assoc** 1996 Oct;84(4):498–506
BIOETHICSLINE use by medical students: curriculum-integrated instruction and collection development implications. Dorsch JL. **Bull Med Libr Assoc** 1997 Apr;85(2):147–53
Equalizing rural health professionals' information access: lessons from a follow-up outreach project. Dorsch JL. **Bull Med Libr Assoc** 1997 Jan;85(1):39–47

GRAVE ROBBING

HISTORY

Grave robbing and ethics in the 19th century. Hutchens MP. **JAMA** 1997 Oct 1;278(13):1115
Grave violations. Aronson SM. **Med Health R I** 1997 Jun; 80(6):178–9

GRAVES' DISEASE

Family with Graves disease, multinodular goiter, nonmedullary thyroid carcinoma, and alveolar rhabdomyosarcoma. Druker HA, et al. **Am J Med Genet** 1997 Oct 3;72(1):30–3
The different faces of thyrotoxicosis. Braverman L. **Cleve Clin J Med** 1996 Sep;63(5):259–61
Has an experimental model for Graves' disease been established? Volpé R. **Eur J Endocrinol** 1997 Feb; 136(2):150–2
Simultaneous xenotransplantation of human Graves' thyroid tissue and autologous bone marrow cells in severe combined immunodeficient mice: successful reconstitution of human Graves' hyperthyroidism. Yoshikawa N, et al. **Eur J Endocrinol** 1997 Feb;136(2):213–22
Graves' disease/model of SCID mouse. Volpé R. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:37–40 (16 ref.)
Surgical treatment of severe dysthyroid ophthalmopathy--long-term results. Rončević R, et al. **J Craniomaxillofac Surg** 1995 Dec;23(6):355–62
Graves' disease 150 years on [editorial] Eastman CJ. **Med J Aust** 1996 Nov 4;165(9):467–8
Eyeing up Graves' ophthalmopathy. Weetman AP. **Mol Cell Endocrinol** 1997 Feb 7;126(2):113–6 (21 ref.)
Hyperthyroidism: diagnosis and management of Graves' disease. Schilling JS. **Nurse Pract** 1997 Jun;22(6):72, 75, 78 passim; quiz 96–7 (28 ref.)

BLOOD

Elevation of serum creatine kinase during treatment with antithyroid drugs in patients with hyperthyroidism due to Graves disease. A novel side effect of antithyroid drugs. Suzuki S, et al. **Arch Intern Med** 1997 Mar 24;157(6):693–6
Plasma selectin levels in patients with Graves' disease. Hara H, et al. **Endocr J** 1996 Dec;43(6):709–13
Soluble intercellular adhesion molecule-1 concentrations in patients with subacute thyroiditis and in patients with Graves' disease with or without ophthalmopathy. Ozata M, et al. **Endocr J** 1996 Oct;43(5):517–25
Elevated plasma adrenomedullin level in hyperthyroidism. Taniyama M, et al. **Eur J Clin Invest** 1996 Jun;26(6):454–6
Immunoglobulins from Graves' disease patients stimulate phospholipase A2 and C systems in FRTL-5 and human thyroid cells. Atwa MA, et al. **Eur J Endocrinol** 1996 Sep; 135(3):322–7
Relationships between plasma thyrotropin receptor antibodies and lipid or lipoprotein parameters in Graves' disease. Rieu M, et al. **Eur J Endocrinol** 1996 Jul; 135(1):77–81
More than IL-6 in Graves' disease? [letter; comment] Celik I. **J Clin Endocrinol Metab** 1997 Apr;82(4):1307. Comment on: J Clin Endocrinol Metab 1996 Aug;81(8):2976–9.
Cyclooxygenase-dependent thyroid cell proliferation induced by immunoglobulins from patients with Graves' disease. Di Paola R, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):670–3
Soluble interleukin-1 receptor antagonist serum levels in smokers and nonsmokers with Graves' ophthalmopathy undergoing orbital radiotherapy. Hofbauer LC, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2244–7
Incomplete thyrotroph suppression determined by third generation thyrotropin assay in subacute thyroiditis compared to silent thyroiditis or hyperthyroid Graves' disease. Ito M, et al. **J Clin Endocrinol Metab** 1997 Feb; 82(2):616–9
Increased serum concentrations of interleukin-6 (IL-6) and soluble IL-6 receptor in patients with Graves' disease [see comments] Salvi M, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2976–9. Comment in: J Clin Endocrinol Metab 1997 Apr;82(4):1307.
Subclinical Graves' disease as a cause of subnormal TSH levels in euthyroid subjects. Kasagi K, et al. **J Endocrinol Invest** 1997 Apr;20(4):183–8
Relationship between thyroid-stimulating antibodies and thyrotropin-binding inhibitory immunoglobulins years after administration of radioiodine for Graves' disease: retrospective clinical survey. Yoshida K, et al. **J Endocrinol Invest** 1996 Nov;19(10):682–6
The antibodies causing thyroid stimulating hormone-binding inhibition (TSH-BI) are not responsible for the specific inhibition of gonadal steroidogenesis by Graves' sera. Castel MA, et al. **J Reprod Immunol** 1996 Feb;30(1):1–15
Effect of 1 alpha-hydroxyvitamin D3 on serum levels of thyroid hormones in hyperthyroid patients with untreated Graves' disease. Kawakami-Tani T, et al. **Metabolism** 1997 Oct;46(10):1184–8
Alteration of platelet aggregation in patients with thyroid disorders. Masunaga R, et al. **Metabolism** 1997 Oct; 46(10):1128–31

CHEMICALLY INDUCED

Relapse of Graves' disease after oestrogen therapy for climacteric symptoms [letter] Watanobe H, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):505
Vitiligo and Graves' disease following treatment of malignant melanoma with recombinant human interleukin 4. Weiss GR, et al. **Dermatology** 1996;192(3):283–5
Graves' hyperthyroidism and ophthalmopathy associated with pemphigus vulgaris: onset of thyroid autoimmune disease during chronic low-dose glucocorticoid therapy. Bartalena L, et al. **J Endocrinol Invest** 1997 Mar;20(3):155–7
[Graves Basedow disease following treatment with magistral formulae for obesity. Jod-Basedow phenomenon?] Goday-Arnó A, et al. **Rev Clin Esp** 1996 Aug;196(8):536–8 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

The simultaneous occurrence of Hailey-Hailey disease, Graves' disease and multiple sclerosis in the same patient [letter] Edwards EK Jr, et al. **Acta Derm Venereol** 1997 Jul;77(4):332
Thyrotoxic periodic paralysis, an unusual cause of hypokalemic periodic paralysis. Berwaerts J, et al. **Acta Neurol Belg** 1996 Dec;96(4):301–6
Case report: autoimmune insulin syndrome in a Chinese female with Graves' disease. Wong ST, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):882–5
Graves' disease associated with exophthalmos, cerebral ventricular dilatation and accelerated growth. Arisaka O, et al. **Arch Dis Child** 1997 Jan;76(1):62–4
Graves disease associated with autoimmune thrombocytopenic purpura. Hofbauer LC, et al. **Arch Intern Med** 1997 May 12;157(9):1033–6
Elevation of serum creatine kinase during treatment with antithyroid drugs in patients with hyperthyroidism due to Graves disease. A novel side effect of antithyroid drugs. Suzuki S, et al. **Arch Intern Med** 1997 Mar 24;157(6):693–6
Ocular neuromyotonia in Graves dysthyroid orbitopathy. Chung SM, et al. **Arch Ophthalmol** 1997 Mar;115(3):365–70 (31 ref.)
Progress in thyroid-associated ophthalmopathy. Wall J, et al. **Autoimmunity** 1995;22(3):191–5 (41 ref.)
Thyroid eye disease. Char DH. **Br J Ophthalmol** 1996 Oct; 80(10):922–6 (95 ref.)

Retrobulbar pressures measured during surgical decompression of the orbit [see comments] [published erratum appears in Br J Ophthalmol 1997 Feb;81(2):175] Otto AJ, et al. **Br J Ophthalmol** 1996 Dec;80(12):1042–5 . Comment in: Br J Ophthalmol 1996 Dec;80(12):1034.

Retrobulbar pressures in dysthyroid optic neuropathy [editorial; comment] Rootman J. **Br J Ophthalmol** 1996 Dec;80(12):1034. Comment on: Br J Ophthalmol 1996 Dec;80(12):1042–5.

Graves' disease and diabetes mellitus associated with acute suppurative thyroiditis: a case report. Li CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jan;59(1):59–64

Severe right heart failure in a patient with Grave's disease. Xenopoulos NP, et al. **Clin Cardiol** 1996 Nov;19(11):903–5

Exophthalmos in Cushing's syndrome. Kelly W. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):167–70

Smoking and endocrine ophthalmopathy: impact of smoking severity and current vs lifetime cigarette consumption. Pfeilschifter J, et al. **Clin Endocrinol (Oxf)** 1996 Oct; 45(4):477–81

Severe pancitopenia associated with antithyroid drugs in a patient with Graves' disease and chronic renal failure [letter] Macia M, et al. **Clin Nephrol** 1997 Jan;47(1):69–70

Severe pancytopenia associated with antithyroid drugs in a patient with Graves' disease and chronic renal failure [letter] Macia M, et al. **Clin Nephrol** 1997 Feb;47(2):129

Early onset pretibial myxedema in the absence of ophthalmopathy: a morphologic evolution. Omohundro C, et al. **Cutis** 1996 Sep;58(3):211–4

High–dose intravenous steroid pulse therapy in thyroid–associated ophthalmopathy. Tagami T, et al. **Endocr J** 1996 Dec;43(6):689–99

Molecular analysis of antigen receptor variable region repertoires in T lymphocytes infiltrating the intrathyroidal and extrathyroidal manifestations in patients with Graves' disease. Heufelder AE, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:84–7

Diagnosis and successful in utero treatment of a fetal goitrous hyperthyroidism caused by maternal Graves' disease. A case report. Heckel S, et al. **Fetal Diagn Ther** 1997 Jan–Feb; 12(1):54–8

Early detection of P–VEP and PERG changes in ophthalmic Graves' disease. Spadea L, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Aug;235(8):501–5

Idiopathic thrombocytopenic purpura associated with Graves' disease—case report. Pavithran K, et al. **Indian J Med Sci** 1996 Feb;50(2):43–6

An HTLV–I carrier with Graves' disease followed by uveitis: isolation of HTLV–I from thyroid tissue. Kubonishi I, et al. **Int J Hematol** 1997 Aug;66(2):233–7

Cryofibrinogenemia with polyarthralgia, Raynaud's phenomenon and acral ulcer in a patient with Graves' disease treated with methimazole. Hosoi K, et al. **Intern Med** 1997 Jun;36(6):439–42

Evans' syndrome associated with Graves' disease. Yashiro M, et al. **Intern Med** 1996 Dec;35(12):987–90 (13 ref.)

Concomitant Graves' disease and Hashimoto's thyroiditis, presenting as primary hypothyroidism. Cronin CC, et al. **Ir Med J** 1996 Jul–Aug;89(4):141–2

Reversible pulmonary hypertension in neonatal Graves disease. O'Donovan D, et al. **Ir Med J** 1997 Jun–Jul; 90(4):147–8

Systemic scleroderma associated with Graves' disease. Anzai H, et al. **J Dermatol** 1996 Dec;23(12):896–8 (9 ref.)

Multiple eccrine hidrocystomas associated with Graves' disease. Nagai Y, et al. **J Dermatol** 1996 Sep;23(9):652–4 (9 ref.)

Sarcoidosis associated with Basedow's disease [letter] Yamamoto T, et al. **J Dermatol** 1996 Dec;23(12):908–9

Thyroid storm precipitated by trauma. Yoshida D. **J Emerg Med** 1996 Nov–Dec;14(6):697–701

Graves' disease associated with the primary antiphospholipid syndrome. Hofbauer LC, et al. **J Rheumatol** 1996 Aug; 23(8):1435–7

Pancytopenia due to vitamin B12 deficiency associated with Graves' disease. Burns RW, et al. **Mo Med** 1996 Jul; 93(7):368–72

The prevalence and implications of ocular hypertension and glaucoma in thyroid–associated orbitopathy. Cockerham KP, et al. **Ophthalmology** 1997 Jun;104(6):914–7

The mechanisms of transient hypothyroxinemia in infants born to mothers with Graves' disease. Matsuura N, et al. **Pediatr Res** 1997 Aug;42(2):214–8

A patient with Graves' disease, thrombocytopenia and chronic hepatitis B. Szeto CC, et al. **Postgrad Med J** 1997 Jan;73(855):39–40

Hypercalcaemia. Vijayaraghavan S, et al. **Postgrad Med J** 1997 Jan;73(855):59–60

Intravenous immunoglobulin versus corticosteroid in treatment of Graves' ophthalmopathy. Baschieri L, et al. **Thyroid** 1997 Aug;7(4):579–85

A patient with Graves' disease, myasthenia gravis, and polymyositis. Kobayashi T, et al. **Thyroid** 1997 Aug; 7(4):631–2

Radioiodine treatment, ablation, and ophthalmopathy: a balanced perspective. Tallstedt L, et al. **Thyroid** 1997 Apr; 7(2):241–5 (22 ref.)

Concurrence of Graves' disease and dysplastic cerebral blood vessels of the moyamoya variety. Tendler BE, et al. **Thyroid** 1997 Aug;7(4):625–9

Graves' dermopathy [letter; comment] Wortsman J. **Thyroid** 1996 Dec;6(6):655, 657. Comment on: Thyroid 1996 Feb;6(1):41–5.

[Presence of ophthalmopathy in all cases of Basedow disease?] Duprey J, et al. **Ann Endocrinol (Paris)** 1996; 57(5):429–32 (Eng. Abstr.) **(Fre)**

[Basedow's disease in an adolescent with histiocytosis X] Viollet L, et al. **Arch Pediatr** 1997 Jul;4(7):656–8 (Eng. Abstr.) **(Fre)**

[Dysthyroid optic neuropathy. Apropos of 2 cases] Domenjód M, et al. **J Fr Ophtalmol** 1996;19(8–9):543–50 (22 ref.) (Eng. Abstr.) **(Fre)**

[Leaving the table on the knees!] Abgrall S, et al. **Rev Med Interne** 1997;18 Suppl 3:277s–278s **(Fre)**

[Rebounding hyperthyroidism] Delecourt F, et al. **Rev Med Interne** 1997;18 Suppl 3:314s–316s **(Fre)**

[Intrapulmonary hemorrhages associated with Basedow disease] Nguyen TB, et al. **Rev Med Interne** 1996; 17(11):933–5 (Eng. Abstr.) **(Fre)**

[Space occupying lesion in the anterior mediastinum in a patient with Basedow disease and previously diagnosed osteosarcoma] Lohwasser S, et al. **Dtsch Med Wochenschr** 1997 Sep 5;122(36):1070–4 (Eng. Abstr.) **(Ger)**

[Two cases of Basedow disease complicated by acute hepatitis] Satoh H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jun;94(6):424–8 **(Jpn)**

CONGENITAL

Radiological case of the month. Congenital goiter. Giardino AA, et al. **Arch Pediatr Adolesc Med** 1997 Feb; 151(2):199–200

DIAGNOSIS

Thyroid hypoechogenicity after methimazole withdrawal in Graves' disease: a useful index for predicting recurrence? Zingrillo M, et al. **Clin Endocrinol (Oxf)** 1996 Aug; 45(2):201–6

Thyroid cancer in children, pregnant women, and patients with Graves' disease. McClellan DR, et al. **Endocrinol Metab Clin North Am** 1996 Mar;25(1):27–48 (111 ref.)

Magnetic resonance imaging in thyroid eye disease. Bailey CC, et al. **Eye** 1996;10 (Pt 5):617–9

Hyperprolactinemia preceding development of autoimmune disease [letter] Kawai T, et al. **J Rheumatol** 1996 Aug; 23(8):1483–4

Graves' disease of the orbit. Weber AL, et al. **Neuroimaging Clin N Am** 1996 Feb;6(1):61–72 (34 ref.)

Superior limbic keratoconjunctivitis. A prognostic sign for severe Graves ophthalmopathy. Kadrmas EF, et al. **Ophthalmology** 1995 Oct;102(10):1472–5

[Significance of TSH receptor antibody determination] Gannage MH, et al. **J Med Liban** 1996;44(3):134–7 (Eng. Abstr.) **(Fre)**

[Postpartum thyroiditis and Basedow disease] Agard C, et al. **Presse Med** 1997 Jul 5;26(23):1095–7 (Eng. Abstr.) **(Fre)**

[Functional eye muscle changes in endocrine orbitopathy] Schworm HD, et al. **Ophthalmologe** 1997 Apr;94(4):290–4 (Eng. Abstr.) **(Ger)**

[Measuring saccades in endocrine orbitopathy] Schworm HD, et al. **Ophthalmologe** 1997 Mar;94(3):211–6 (Eng. Abstr.) **(Ger)**

[Analysis of ocular saccadic movements with a fatigue test and neostigmine in Graves' ophthalmopathy] di Lorenzo L, et al. **Minerva Endocrinol** 1997 Mar;22(1):7–12 (Eng. Abstr.) **(Ita)**

[Early–onset hyperthyroidism with muscle involvement: a report on a patient] Greco F, et al. **Pediatr Med Chir** 1996 Nov–Dec;18(6):611–3 (11 ref.) (Eng. Abstr.) **(Ita)**

[Hyperthyroidism associated with juvenile diabetes: apropos a case] Giralt Muiña P, et al. **An Esp Pediatr** 1996 May; 44(5):504–6 (16 ref.) **(Spa)**

DRUG THERAPY

Experience with carbimazole in the treatment of the hyperthyroidism of Graves' disease in Nigerian patients. Modebe O. **Afr J Med Med Sci** 1995 Dec;24(4):347–51

Outcome of Graves' thyrotoxicosis after antithyroid drug treatment. Chiou SC, et al. **Chang Keng I Hsueh** 1995 Dec; 18(4):305–14

Response of Graves' disease to low dose methimazole [letter; comment] Elias AN. **Clin Endocrinol (Oxf)** 1996 Feb; 44(2):243. Comment on: Clin Endocrinol (Oxf) 1995 Sep;43(3):257–63.

Antithyroid therapy improves bony manifestations and bone metabolic markers in patients with Graves' thyrotoxicosis. Nagasaka S, et al. **Clin Endocrinol (Oxf)** 1997 Aug; 47(2):215–21

Experience with immunoglobulins in thyroid autoimmunity. Lecomte P, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S103–7 (5 ref.)

High–dose intravenous therapy with 7S immunoglobulins in autoimmune endocrine ophthalmopathy. Seppel T, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S109–14 (31 ref.)

Severe pancytopenia associated with antithyroid drugs in a patient with Graves' disease and chronic renal failure [letter] Macia M, et al. **Clin Nephrol** 1997 Feb;47(2):129

The change in 123I–uptake between 3– and 24–hours is useful in predicting early response to methimazole in patients with Graves' disease. Gemma R, et al. **Endocr J** 1996 Feb; 43(1):61–6

Suppression of serum thyrotropin with thyroxine in patients with Graves' disease: effects on recurrence of hyperthyroidism and thyroid volume. Pfeilschifter J, et al. **Eur J Endocrinol** 1997 Jan;136(1):81–6

Prediction of remission in Graves' disease treated with long–term carbimazole therapy: evaluation of technetium–99m thyroid uptake and TSH concentrations as prognostic indicators. Prakash R. **Eur J Nucl Med** 1996 Feb;23(2):118–22

Results and prognostic factors in retrobulbar radiotherapy combined with systemic corticosteroids for endocrine orbitopathy (Graves' disease). Staar S, et al. **Front Radiat Ther Oncol** 1997;30:206–17

Dyspnoea, lung function & respiratory muscle pressures in patients with Graves' disease. Guleria R, et al. **Indian J Med Res** 1996 Nov;104:299–303

Cryofibrinogenemia with polyarthralgia, Raynaud's phenomenon and acral ulcer in a patient with Graves' disease treated with methimazole. Hosoi K, et al. **Intern Med** 1997 Jun;36(6):439–42

Beneficial effect of pentoxifylline on thyroid associated ophthalmopathy (TAO)*: a pilot study. Balazs C, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1999–2002

Medical therapy of Graves' disease: does thyroxine prevent recurrence of hyperthyroidism? Lucas A, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2410–3

Serial analysis of the effects of methimazole therapy on circulating B cell subsets in Graves' disease. Corrales JJ, et al. **J Endocrinol** 1996 Nov;151(2):231–40

Therapeutic responses to corticosteroids in Graves' ophthalmopathy. Chang TC, et al. **J Formos Med Assoc** 1996 Nov;95(11):833–8

Effect of 1 alpha–hydroxyvitamin D3 on serum levels of thyroid hormones in hyperthyroid patients with untreated Graves' disease. Kawakami–Tani T, et al. **Metabolism** 1997 Oct;46(10):1184–8

Benzodiazepine and remission of Graves' disease [letter] Benvenga S. **Thyroid** 1996 Dec;6(6):659–60

Somatostatin therapy and Graves' ophthalmopathy [letter; comment] Krassas G, et al. **Thyroid** 1997 Jun;7(3):489. Comment on: Thyroid 1996 Oct;6(5):381–4.

The effect of somatostatin versus corticosteroid in the treatment of Graves' ophthalmopathy [see comments] Kung AW, et al. **Thyroid** 1996 Oct;6(5):381–4. Comment in: Thyroid 1997 Jun;7(3):489.

Graves' dermopathy: does octreotide scintigraphy predict the response to octreotide treatment? Kuyvenhoven JP, et al. **Thyroid** 1996 Oct;6(5):385–9

Effects of octreotide treatment on Graves' ophthalmopathy and circulating sICAM–1 levels. Ozata M, et al. **Thyroid** 1996 Aug;6(4):283–8

Clinical features of patients with Graves' disease undergoing remission after antithyroid drug treatment. Vitti P, et al. **Thyroid** 1997 Jun;7(3):369–75

Propylthiouracil–induced hepatotoxicity. Hardee JT, et al. **West J Med** 1996 Sep;165(3):144–7

[Basedow disease hyperthyroidism—is there a therapeutic standard? Conservative therapy] Schumm–Draeger PM. **Zentralbl Chir** 1997;122(4):224–6 (7 ref.) (Eng. Abstr.) **(Ger)**

[A case of Grave's disease with MPO–ANCA–associated glomerulonephritis during propylthiouracil (PTU) therapy following interstitial pneumonitis] Saeki T, et al. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):167–71 (15 ref.) (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Purification and crystallisation of the autoantigen thyroid peroxidase from human Graves' thyroid tissue. Gardas A, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):366–70

Inducible nitric oxide synthase in monocytes from patients with Graves' disease. López–Moratalla N, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):723–9

The thyroperoxidase doublet is not produced by alternative splicing. Cetani F, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):125–32

EPIDEMIOLOGY

Risk factors for Graves' disease. Janković SM, et al. **Eur J Epidemiol** 1997 Jan;13(1):15–8

[Epidemiological survey of Graves' disease on a hundred thousand people in Daging area] Li C, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jun;76(6):443–6 (Eng. Abstr.) **(Chi)**

[Occurrence of immune hyperthyroidism after radioiodine therapy of autonomous goiter] Hirsch C, et al. **Med Klin** 1997 Mar 15;92(3):130–7 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Autoimmune hyperthyroidism in patients with multiple sclerosis treated with interferon beta–1b. Schwid SR, et al. **Arch Neurol** 1997 Sep;54(9):1169–90

New onset of Graves' disease following subclinical hypothyroidism in a woman with systemic lupus erythematosus (SLE) [letter] [see comments] Mallon DF, et al. **Aust N Z J Med** 1996 Jun;26(3):424–5. Comment in: Aust N Z J Med 1997 Feb;27(1):78–9.

The full length and splice variant thyrotropin receptor is

expressed exclusively in skeletal muscle of extraocular origin: a link to the pathogenesis of Graves' ophthalmopathy. Major BJ, et al.
Biochem Biophys Res Commun 1997 Jan 23;230(3):493–6

The effects of smoking on remission and relapse of Graves' disease [letter] Uniivar N, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):377–8

Development of Graves' disease from asymptomatic autoimmune thyroiditis: a case report. Kasuga Y, et al. **Endocr J** 1996 Dec;43(6):743–6

A case of repeated painless thyroiditis followed by Graves' disease. Umena S, et al. **Endocr J** 1995 Dec;42(6):821–6

Graves' ophthalmopathy: what is the initial abnormality?[comment] Burman KD. **Eur J Endocrinol** 1997 Jun;136(6):583–5 (21 ref.). Comment on: Eur J Endocrinol 1997 Jun;136(6):590–1.

Stressful life events and Graves' disease. Chiovato L, et al. **Eur J Endocrinol** 1996 Jun;134(6):680–2 (12 ref.)

Stressful life events in the pathogenesis of Graves' disease. Radosavljević VR, et al. **Eur J Endocrinol** 1996 Jun; 134(6):699–701

Pathogenesis of Graves' ophthalmopathy. Spitzweg C, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):101–2

Occurrence of Graves' disease during retreatment with interferon-alpha 2a for chronic hepatitis C. Wada M, et al. **Intern Med** 1995 Nov;34(11):1097–1100

Thyrotropin receptor antibodies and Graves' disease, a side-effect of 131I treatment in patients with nontoxic goiter. Nygaard B, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2926–30

Graves' disease triggered by autoinfarction of an autonomously functioning thyroid adenoma. Gallegos E, et al. **J Nucl Med** 1997 Feb;38(2):260–2

Graves' disease after silica dust exposure [letter] Koeger AC, et al. **J Rheumatol** 1996 Jan;23(1):202

Simultaneous relapse of minimal-change glomerulonephritis and Graves' disease [letter] Ritz E.
Nephrol Dial Transplant 1997 Jul;12(7):1541

Graves' disease occurring after subacute thyroiditis: report of a case and review of the literature. Bartalena L, et al. **Thyroid** 1996 Aug;6(4):345–8 (22 ref.)

The transition of subacute thyroiditis to Graves' disease as evidenced by diagnostic imaging. Bennedbaek FN, et al. **Thyroid** 1996 Oct;6(5):457–9

Histomorphological aspects of the development of thyroid autoimmune diseases: consequences for our understanding of endocrine ophthalmopathy. Delemarre FG, et al. **Thyroid** 1996 Aug;6(4):369–77 (62 ref.)

Onset of Graves' thyrotoxicosis after an attack of allergic rhinitis. Hidaka Y, et al. **Thyroid** 1996 Aug;6(4):349–51

[Neonatal Basedow's disease in twins from a mother with severe T3 hyperthyroidism] Roth C, et al.
Dtsch Med Wochenschr 1997 May 2;122(18):572–7 (Eng. Abstr.) **(Ger)**

[Case of type C chronic hepatitis developing periodic quadriplegia and Basedow's disease during interferon administration] Suzuki T, et al.
Nippon Naika Gakkai Zasshi 1996 Aug 10;85(8):1295–7 **(Jpn)**

[A case of posterior thyroid ophthalmopathy following neck irradiation] Bolaños F, et al. **Rev Invest Clin** 1996 Nov–Dec;48(6):457–9 (Eng. Abstr.) **(Spa)**

GENETICS

Restriction fragment length polymorphism of the T cell receptor beta-chain gene in Chinese patients with thyrotoxic hypokaleamic periodic paralysis and Graves' disease. Lee BW, et al. **Autoimmunity** 1995;21(4):241–4

The full length and splice variant thyrotropin receptor is expressed exclusively in skeletal muscle of extraocular origin: a link to the pathogenesis of Graves' ophthalmopathy. Major BJ, et al.
Biochem Biophys Res Commun 1997 Jan 23;230(3):493–6

A CTLA-4 gene polymorphism is associated with both Graves disease and autoimmune hypothyroidism. Kotsa K, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):551–4

Genetic markers in diagnosis and prediction of relapse in Graves' disease. Badenhoop K, et al.
Exp Clin Endocrinol Diabetes 1996;104 Suppl 4:98–100

Lack of an association between alleles of interleukin-1 alpha and interleukin-1 receptor antagonist genes and Graves' disease in a North American Caucasian population. Cuddihy RM, et al. **J Clin Endocrinol Metab** 1996 Dec; 81(12):4476–8

Analysis of the thyrotropin receptor as a candidate gene in familial Graves' disease. de Roux N, et al.
J Clin Endocrinol Metab 1996 Oct;81(10):3483–6

CTLA4 alanine-17 confers genetic susceptibility to Graves' disease and to type 1 diabetes mellitus. Donner H, et al.
J Clin Endocrinol Metab 1997 Jan;82(1):143–6

The interaction of a type A retroviral particle and class II human leukocyte antigen susceptibility genes in the pathogenesis of Graves' disease. Jaspan JB, et al.
J Clin Endocrinol Metab 1996 Jun;81(6):2271–9

Mapping of a major susceptibility locus for Graves' disease (GD-1) to chromosome 14q31. Tomer Y, et al.
J Clin Endocrinol Metab 1997 May;82(5):1645–8

Multivariate analysis of HLA loci in conjunction with a thyrotropin receptor codon 52 polymorphism in conferring risk of Graves' disease. Cuddihy RM, et al. **Thyroid** 1996 Aug;6(4):261–5

No association between a thyrotropin receptor gene polymorphism and Graves' disease in the female population. Kotsa KD, et al. **Thyroid** 1997 Feb;7(1):31–3

TSH receptor transcripts and TSH receptor-like immunoreactivity in orbital and pretibial fibroblasts of patients with Graves' ophthalmopathy and pretibial myxedema. Stadlmayr W, et al. **Thyroid** 1997 Feb;7(1):3–12

Polymorphisms of TAP1 and TAP2 genes in Graves' disease. Rau H, et al. **Tissue Antigens** 1997 Jan;49(1):16–22

Polymorphisms of tumor necrosis factor receptor 2 are not associated with insulin-dependent diabetes mellitus or Graves' disease. Rau H, et al. **Tissue Antigens** 1997 May; 49(5):535–6

[Expression of thyrotropin receptor gene in autoimmune thyroid disease and the relation to expression of HLA genes] Yang D, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):753–5 (Eng. Abstr.) **(Chi)**

[TSH receptor double mutation in functional autonomic thyroid nodule] Semlitsch G, et al. **Acta Med Austriaca** 1995;22(4):75–7 (Eng. Abstr.) **(Ger)**

[Polymorphism of the 52 triplet gene (nucleotide 253) of the TSH receptor in Basedow–Graves patients and in healthy controls] Kaczur V, et al. **Orv Hetil** 1997 Jun 22; 138(25):1625–8 (Eng. Abstr.) **(Hun)**

IMMUNOLOGY

Majority of thyroid peroxidase autoantibodies in patients with autoimmune thyroid disease are directed to a single TPO domain. Czarnocka B, et al. **Autoimmunity** 1996; 23(3):145–54

Analysis of antibody-dependent cell-mediated cytotoxicity in autoimmune thyroid disease. Metcalfe RA, et al.
Autoimmunity 1997;25(2):65–72

High circulating IL-6 level in Graves' ophthalmopathy. Molnár I, et al. **Autoimmunity** 1997;25(2):91–6

Purification and crystallisation of the autoantigen thyroid peroxidase from human Graves' thyroid tissue. Gardas A, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):366–70

Reversible primary hypothyroidism with blocking or stimulating type TSH binding inhibitor immunoglobulin following recombinant interferon-alpha therapy in patients with pre-existing thyroid disorders. Chen FQ, et al.
Clin Endocrinol (Oxf) 1996 Aug;45(2):207–14

Adhesion molecule expression in vivo on extraocular muscles (EOM) in thyroid-associated ophthalmopathy (TAO). Pappa A, et al. **Clin Exp Immunol** 1997 May;108(2):309–13

Analysis of extraocular muscle-infiltrating T cells in thyroid-associated ophthalmopathy (TAO). Pappa A, et al. **Clin Exp Immunol** 1997 Aug;109(2):362–9

IgG, IgA and C3 deposits in the extra-thyroidal manifestations of autoimmune Graves' disease: their in vitro solubilization by intravenous immunoglobulin. Antonelli A, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S31–5

Significance of tissue specific and tissue non specific autoimmune reactions of Graves' disease. Kiljanski J, et al. **Clin Exp Rheumatol** 1996 May–Jun;14 Suppl 15:S69–76

TSH receptor in endocrine autoimmunity. Otto E, et al.
Clin Exp Rheumatol 1996 May–Jun;14 Suppl 15:S77–84

Coexpression of CD40 and class II antigen HLA-DR in Graves' disease thyroid epithelial cells. Faure GC, et al.
Clin Immunol Immunopathol 1997 Aug;84(2):212–5

Thyroid xenografts from patients with Graves' disease in severe combined immunodeficient mice and NIH-beige-nude-xid mice. Mukuta T, et al.
Clin Invest Med 1997 Feb;20(1):5–15

Transcytosis of IgG from the basolateral to the apical membrane of human thyrocytes in autoimmune thyroid disease. Zimmer KP, et al. **Curr Top Pathol** 1997;91:117–28

Analysis of IL-2 and IL-6 binding to peripheral blood lymphocytes in Graves disease: relationship with disease activity. Corrales JJ, et al. **Cytometry** 1997 Jun 15; 30(3):118–23

Systemic bias of cytokine production toward cell-mediated immune regulation in IDDM and toward humoral immunity in Graves' disease. Kallmann BA, et al.
Diabetes 1997 Feb;46(2):237–43

CD5 B cells in autoimmune and non immune-mediated thyroid dysfunctions. Afeltra A, et al. **Endocr Res** 1997 Feb–May;23(1–2):81–94

Identification of the peptides that inhibit the stimulation of thyrotropin receptor by Graves' immunoglobulin G from peptide libraries. Park JY, et al. **Endocrinology** 1997 Feb; 138(2):617–26

Relationships between plasma thyrotropin receptor antibodies and lipid or lipoprotein parameters in Graves' disease. Rieu M, et al. **Eur J Endocrinol** 1996 Jul; 135(1):77–81

Graves' disease: xenotransplantation model (athymic nude mice). Rippegather K, et al.
Exp Clin Endocrinol Diabetes 1996;104 Suppl 3:34–6; discussion 36–7 (15 ref.)

Effect of Graves' intrathyroidal lymphocytes. Effect of Graves' disease intrathyroidal lymphocytes (ITL) on xenotransplants of human thyroid tissue in athymic nude mice. Schumm-Draeger PM, et al.
Exp Clin Endocrinol Diabetes 1996;104 Suppl 4:60–3

CD5+ B cells in Graves' disease: correlation with disease activity. Corrales JJ, et al. **Horm Metab Res** 1996 Jun; 28(6):280–5

Should Graves' disease be considered a collagen disorder of the thyroid, skeletal muscle and connective tissue? Kiljanski J, et al. **Horm Metab Res** 1995 Dec;27(12):528–32

Engineering the human thyrotropin receptor ectodomain from a non-secreted form to a secreted, highly immunoreactive glycoprotein that neutralizes autoantibodies in Graves' patients' sera. Chazenbalk GD, et al. **J Biol Chem** 1997 Jul 25;272(30):18959–65

Antigen receptor variable region repertoires expressed by T cells infiltrating thyroid, retroorbital, and pretibial tissue in Graves' disease. Heufelder AE, et al.
J Clin Endocrinol Metab 1996 Oct;81(10):3733–9

Regulation of intercellular adhesion molecule-1 expression in human thyroid cells in vitro and human thyroid tissue transplanted to the nude mouse in vivo: role of Graves' immunoglobulins and human thyrotropin receptor. Hoermann R, et al. **J Clin Endocrinol Metab** 1997 Jul; 82(7):2048–55

Changes in epitopes for thyroid-stimulating antibodies in Graves' disease sera during treatment of hyperthyroidism: therapeutic implications. Kim WB, et al.
J Clin Endocrinol Metab 1997 Jun;82(6):1953–9

Lack of B7-1/BB1 and B7-2/B70 expression on thyrocytes of patients with Graves' disease. Delivery of costimulatory signals from bystander professional antigen-presenting cells. Matsuoka N, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4137–43

Thyrotropin receptor antibodies and Graves' disease, a side-effect of 131I treatment in patients with nontoxic goiter. Nygaard B, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2926–30

Increased serum concentration of soluble CD30 in patients with Graves' disease and Hashimoto's thyroiditis. Okumura M, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1757–60

Orbital tissue-derived T lymphocytes from patients with Graves' ophthalmopathy recognize autologous orbital antigens. Otto EA, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3045–50

In vivo and in vitro evidence for iodide regulation of major histocompatibility complex class I and class II expression in Graves' disease. Schuppert F, et al.
J Clin Endocrinol Metab 1996 Oct;81(10):3622–8

Human B cells secreting immunoglobulin G to glutamic acid decarboxylase-65 from a nondiabetic patient with multiple autoantibodies and Graves' disease: a comparison with those present in type 1 diabetes. Tremble J, et al.
J Clin Endocrinol Metab 1997 Aug;82(8):2664–70

Serial analysis of the effects of methimazole therapy on circulating B cell subsets in Graves' disease. Corrales JJ, et al. **J Endocrinol** 1996 Nov;151(2):231–40

Antibody-dependent cell-mediated cytotoxicity against orbital target cells in thyroid-associated ophthalmopathy and related disorders; close relationship between serum cytotoxic antibodies and parameters of eye muscle dysfunction. Barsouk A, et al. **J Endocrinol Invest** 1996 Jun;19(6):334–41

Frequency of HLA antigens in Graves' hyperthyroidism and mitral valve prolapse. Kontopoulos A, et al.
J Heart Valve Dis 1996 Sep;5(5):543–7

Molecular analysis of stimulatory anti-thyrotropin receptor antibodies (TSAbs) involved in Graves' disease. Isolation and reconstruction of antibody genes, and production of monoclonal TSAbs. Akamizu T, et al. **J Immunol** 1996 Oct 1;157(7):3148–52

The antibodies causing thyroid stimulating hormone-binding inhibition (TSH-BI) are not responsible for the specific inhibition of gonadal steroidogenesis by Graves' sera. Castel MA, et al. **J Reprod Immunol** 1996 Feb;30(1):1–15

An adenosine derivative cooperates with TSH and Graves' IgG to induce Ca2+ mobilization in single human thyroid cells. Yanagita Y, et al. **Mol Cell Endocrinol** 1996 Apr 19; 118(1–2):47–56

Induction of Graves-like disease in mice by immunization with fibroblasts transfected with the thyrotropin receptor and a class II molecule. Shimojo N, et al.
Proc Natl Acad Sci U S A 1996 Oct 1;93(20):11074–9

Radioiodine and the immune system. DeGroot LJ.
Thyroid 1997 Apr;7(2):259–64 (21 ref.)

Evaluation of immunological mechanisms mediating thyroid-associated ophthalmopathy by radionuclide imaging using the somatostatin analog 111In-octreotide. Moncayo R, et al. **Thyroid** 1997 Feb;7(1):21–9

Studies of retroorbital tissue xenografts from patients with Graves' ophthalmopathy in severe combined immunodeficient (SCID) mice: detection of thyroid-stimulating antibody. Mori S, et al. **Thyroid** 1996 Aug;6(4):275–81

The effect of adding a surfeit of autologous CD8+ T cells to SCID mice after secondary rexenografts of Graves' thyroid tissue. Mukuta T, et al. **Thyroid** 1996 Oct; 6(5):429–36

Antibody to gp39, the ligand for CD40 significantly inhibits the humoral response from Graves' thyroid tissues xenografted into severe combined immunodeficient (SCID) mice. Resetkova E, et al. **Thyroid** 1996 Aug;6(4):267–73

Graves' disease and autoimmune factor VIII deficiency. Sievert R, et al. **Thyroid** 1996 Jun;6(3):245–7

T-cell recognition of residue 158–176 in thyrotropin receptor confers risk for development of thyroid autoimmunity in siblings in a family with Graves' disease. Soliman M, et al. **Thyroid** 1996 Dec;6(6):545–51

IFN-gamma has a protective role against thyroid-specific autoantibody production in severe combined immunodeficient (SCID) mice xenografted with Graves' thyroid tissue. Yoshikawa N, et al. **Thyroid** 1996 Oct;

6(5):437–43
[Thyroid stimulating antibodies in pregnant women with Graves' disease and neonatal thyrotoxicosis] Nygaard B, et al. **Ugeskr Laeger** 1997 Feb 17;159(8):1086–9 (Eng. Abstr.) **(Dan)**
[Effect of intrathyroidal lymphocytes of Graves' disease patients on xenograft thyroid tissue in the athymic nude mouse] Länger F, et al. **Verh Dtsch Ges Pathol** 1996; 80:303–7 (Eng. Abstr.) **(Ger)**
[Diagnostic value of thyroid antibodies] Toldy E, et al. **Orv Hetil** 1996 Sep 22;137(38):2075–80 (30 ref.) (Eng. Abstr.) **(Hun)**
[CD5 positive b-lymphocytes in autoimmunity: possible role in Graves' disease] Afeltra A, et al. **Riv Eur Sci Med Farmacol** 1995 Sep–Oct;17(5):167–74 (64 ref.) (Eng. Abstr.) **(Ita)**
[Thyroid dysfunctions as autoimmune diseases] Nagataki S, et al. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):391–4 (11 ref.) **(Jpn)**
[TSH anti-receptor antibodies in Graves' disease] Sérgio MR, et al. **Acta Med Port** 1996 Jul–Sep;9(7–9):229–31 (Eng. Abstr.) **(Por)**
[The characteristics of patient immune status after the surgical treatment of diffuse toxic goiter] Shevchenko SI, et al. **Klin Khir** 1995;(1):15–7 **(Rus)**

METABOLISM

Antithyroid therapy improves bony manifestations and bone metabolic markers in patients with Graves' thyrotoxicosis. Nagasaka S, et al. **Clin Endocrinol (Oxf)** 1997 Aug; 47(2):215–21
Adhesion molecule expression in vivo on extraocular muscles (EOM) in thyroid-associated ophthalmopathy (TAO). Pappa A, et al. **Clin Exp Immunol** 1997 May;108(2):309–13
Untreated Graves' but not remission Graves' immunoglobulin G preparations increase intracellular Ca2+ in FRTL-5 thyroid cells. Kuwabara A, et al. **Endocr J** 1996 Oct; 43(5):457–67
Heat shock protein 60 mRNA is not increased in Graves' disease thyroid tissue. Trieb K, et al. **Endocr Res** 1996 May; 22(2):185–93
c-myc expression is associated with increased proliferation activity in thyroid follicular cells of Graves' disease as stimulated by autoantibodies [see comments] Kashima K, et al. **Eur J Endocrinol** 1996 Jul;135(1):69–76. Comment in: Eur J Endocrinol 1996 Jul;135(1):39–45.
Iodide, cytokines and TSH-receptor expression in Graves' disease. Schuppert F, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:68–74
Expression of monocyte chemoattractant protein-1 mRNA and protein in cultured human thyrocytes. Kasai K, et al. **FEBS Lett** 1996 Sep 30;394(2):137–40
Serum immunoglobulin E and soluble CD23 in patients with Graves' disease. Sayinalp S, et al. **Horm Metab Res** 1996 Mar;28(3):133–7
Detection and modulation of interleukin-1 receptor antagonist messenger ribonucleic acid and immunoreactivity in Graves' orbital fibroblasts. Mühlberg T, et al. **Invest Ophthalmol Vis Sci** 1997 Apr;38(5):1018–28
A longitudinal study of markers of bone turnover in Graves' disease and their value in predicting bone mineral density. Siddiqi A, et al. **J Clin Endocrinol Metab** 1997 Mar; 82(3):753–9
Epitope mapping of a recombinant human TSH receptor extracellular domain: identification of a predominant epitope using animal sera. Hunt N, et al. **J Clin Lab Anal** 1996;10(4):193–204
Action of peripheral or intrathyroidal lymphocytes on autologous thyrocytes cultured in follicles in collagen gel. Massart C, et al. **J Mol Endocrinol** 1997 Apr;18(2):137–45
Increased production of B-cell growth factor by T lymphocytes in Graves' thyroid: possible role of CD4+ CD29+ cells. Goto Y, et al. **Thyroid** 1997 Aug;7(4):567–73
TSH receptor transcripts and TSH receptor-like immunoreactivity in orbital and pretibial fibroblasts of patients with Graves' ophthalmopathy and pretibial myxedema. Stadlmayr W, et al. **Thyroid** 1997 Feb;7(1):3–12
Serum antibodies reactive with eye muscle antigens and the TSH receptor in a euthyroid subject who developed ophthalmopathy and Graves' hyperthyroidism. Wall J, et al. **Thyroid** 1996 Aug;6(4):353–8
[Effect of methimazole and dexamethasone on leucocyte glucocorticoid receptor, plasma ACTH, and cortisol levels in Graves' disease] Gao Y, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):75–8 (Eng. Abstr.) **(Chi)**

PATHOLOGY

Evaluation of conjunctival morphology in thyroid associated eye disease by use of impression cytology. Ozkan SB, et al. **Acta Ophthalmol Scand** 1997 Apr;75(2):145–7
Progress in thyroid-associated ophthalmopathy. Wall J, et al. **Autoimmunity** 1995;22(3):191–5 (41 ref.)
Clinical activity score as a guide in the management of patients with Graves' ophthalmopathy [see comments] Mourits MP, et al. **Clin Endocrinol (Oxf)** 1997 Jul; 47(1):9–14. Comment in: Clin Endocrinol (Oxf) 1997 Jul;47(1):15.
Clinical activity score as a guide in the management of patients with Graves' orbitopathy [comment] Rose GE. **Clin Endocrinol (Oxf)** 1997 Jul;47(1):15. Comment on: Clin Endocrinol (Oxf) 1997 Jul;47(1):9–14.
Coexpression of CD40 and class II antigen HLA-DR in Graves' disease thyroid epithelial cells. Faure GC, et al. **Clin Immunol Immunopathol** 1997 Aug;84(2):212–5
c-myc expression is associated with increased proliferation activity in thyroid follicular cells of Graves' disease as stimulated by autoantibodies [see comments] Kashima K, et al. **Eur J Endocrinol** 1996 Jul;135(1):69–76. Comment in: Eur J Endocrinol 1996 Jul;135(1):39–45.
Orbital tissue-derived T lymphocytes from patients with Graves' ophthalmopathy recognize autologous orbital antigens. Otto EA, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3045–50
Thymic hyperplasia in patients with Graves' disease. Identification of thyrotropin receptors in human thymus. Murakami M, et al. **J Clin Invest** 1996 Nov 15; 98(10):2228–34
Gastric mucosa-associated lymphoid tissue in autoimmune thyroid diseases. Cammarota G, et al. **Scand J Gastroenterol** 1997 Sep;32(9):869–72
Histomorphological aspects of the development of thyroid autoimmune diseases: consequences for our understanding of endocrine ophthalmopathy. Delemarre FG, et al. **Thyroid** 1996 Aug;6(4):369–77 (62 ref.)
[Volume reduction of the thyroid after radioiodine therapy in patients with autonomous goiter and Basedow's goiter] Dederichs B, et al. **Nuklearmedizin** 1996 Oct;35(5):164–9 (Eng. Abstr.) **(Ger)**
[Morphology and clinical aspects of immune thyroid diseases] Schröder S, et al. **Pathologe** 1996 Jul;17(4):276–88 (101 ref.) (Eng. Abstr.) **(Ger)**
[Effect of intrathyroidal lymphocytes of Graves' disease patients on xenograft thyroid tissue in the athymic nude mouse] Länger F, et al. **Verh Dtsch Ges Pathol** 1996; 80:303–7 (Eng. Abstr.) **(Ger)**
[Thyroid nodule in Basedow-Graves disease and thyroid cancer: experience in 6 patients] Piraino P, et al. **Rev Med Chil** 1995 Nov;123(11):1402–8 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Relationships of orbital computed tomographic findings and activity scores to the prognosis of corticosteroid therapy in patients with Graves' ophthalmopathy. Chang TC, et al. **Acta Ophthalmol Scand** 1997 Jun;75(3):301–4
Activated and interferon-gamma producing thyroid-derived T cells are detected in Graves' disease, thyroid autonomy as well as in non-toxic multinodular goiter [see comments] Aust G, et al. **Eur J Endocrinol** 1996 Jul;135(1):60–8. Comment in: Eur J Endocrinol 1996 Jul;135(1):39–45.
The study of visual evoked potentials in patients with thyroid-associated ophthalmopathy identifies asymptomatic optic nerve involvement. Salvi M, et al. **J Clin Endocrinol Metab** 1997 Apr;82(4):1027–30
Skeletal muscle function and body composition of patients with hyperthyroidism. Da Nóbrega AC, et al. **Med Sci Sports Exerc** 1997 Feb;29(2):175–80
Palpebral fissure height and downgaze in patients with Graves upper eyelid retraction and congenital blepharoptosis [see comments] Guimarães FC, et al. **Ophthalmology** 1995 Aug;102(8):1218–22. Comment in: Ophthalmology 1996 Feb;103(2):195–6.
Bone mineral density after surgical treatment for Graves' disease. Arata N, et al. **Thyroid** 1997 Aug;7(4):547–54
Sympathetic overactivity of intraocular muscles evaluated by accommodation in patients with hyperthyroidism. Noh JY, et al. **Thyroid** 1996 Aug;6(4):289–93
Factors affecting thyroid function after subtotal thyroidectomy for Graves' disease: case control study by remnant-weight matched-pair analysis. Ozaki O, et al. **Thyroid** 1997 Aug;7(4):555–9
Clinical features of patients with Graves' disease undergoing remission after antithyroid drug treatment. Vitti P, et al. **Thyroid** 1997 Jun;7(3):369–75
[Evaluation of the retrobulbar space in Graves' orbitopathy using color Doppler ultrasonography] Cmelo J, et al. **Cesk Slov Oftalmol** 1997 May;53(2):106–11 (Eng. Abstr.) **(Slo)**

PREVENTION & CONTROL

Medical therapy of Graves' disease: does thyroxine prevent recurrence of hyperthyroidism? Lucas A, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2410–3

PSYCHOLOGY

A survey study of neuropsychiatric complaints in patients with Graves' disease. Stern RA, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):181–5
Graves' disease after the onset of panic disorder. Matsubayashi S, et al. **Psychother Psychosom** 1996; 65(5):277–80

RADIOGRAPHY

Radiological case of the month. Congenital goiter. Giardino AA, et al. **Arch Pediatr Adolesc Med** 1997 Feb; 151(2):199–200
Thymic hyperplasia in patients with Graves' disease. Identification of thyrotropin receptors in human thymus. Murakami M, et al. **J Clin Invest** 1996 Nov 15; 98(10):2228–34
"Pneumofornix" (air under the eyelid): a normal finding. Patel BC, et al. **Ophthalmic Surg Lasers** 1997 Jun;28(6):520–2

RADIONUCLIDE IMAGING

Somatostatin-receptor scintigraphy in Graves' orbitopathy. Postema PT, et al. **Eur J Nucl Med** 1996 Jun;23(6):615–7
The transition of subacute thyroiditis to Graves' disease as evidenced by diagnostic imaging. Bennedbaek FN, et al. **Thyroid** 1996 Oct;6(5):457–9
Graves' dermopathy: does octreotide scintigraphy predict the response to octreotide treatment? Kuyvenhoven JP, et al. **Thyroid** 1996 Oct;6(5):385–9
Evaluation of immunological mechanisms mediating thyroid-associated ophthalmopathy by radionuclide imaging using the somatostatin analog 111In-octreotide. Moncayo R, et al. **Thyroid** 1997 Feb;7(1):21–9

RADIOTHERAPY

Fine needle aspiration biopsy of the thyroid gland in patients with prior Graves' disease treated with radioactive iodine. Morphologic findings and potential pitfalls. Centeno BA, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1189–97
The role of radiation therapy in Graves' ophthalmopathy. Chowdhury AD, et al. **Australas Radiol** 1996 Nov; 40(4):422–3
The development of transient hypothyroidism after iodine-131 treatment in hyperthyroid patients with Graves' disease: prevalence, mechanism and prognosis. Aizawa Y, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):1–5
Clinical importance of radiotherapy in the treatment of Graves' disease. Friedrich A, et al. **Front Radiat Ther Oncol** 1997;30:195–205
Radiotherapy for severe, progressive thyroid-associated ophthalmopathy: long-term results with comparison of scoring systems. Seegenschmiedt MH, et al. **Front Radiat Ther Oncol** 1997;30:218–28
Results and prognostic factors in retrobulbar radiotherapy combined with systemic corticosteroids for endocrine orbitopathy (Graves' disease). Staar S, et al. **Front Radiat Ther Oncol** 1997;30:206–17
Graves' hyperthyroidism: treatment with antithyroid drugs, surgery, or radioiodine—a prospective, randomized study. Thyroid Study Group. Törring O, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2986–93
Evaluation of external radiation exposure rate from radioiodine-treated hyperthyroid patients and radiation safety considerations. Demir M, et al. **Nucl Med Commun** 1996 Aug;17(8):692–5
Clinical experience of radiation therapy for Graves' ophthalmopathy. Takahashi T, et al. **Radiat Med** 1996 Nov–Dec;14(6):343–7
Probable risk of tumor induction after retro-orbital irradiation for Graves' ophthalmopathy [letter; comment] Blank LE, et al. **Radiother Oncol** 1996 Aug;40(2):187–9. Comment on: Radiother Oncol 1996 Jan;38(1):69–71.
Probable risk of tumour induction after retro-orbital irradiation for Graves' ophthalmopathy [see comments] Snijders-Keilholz A, et al. **Radiother Oncol** 1996 Jan; 38(1):69–71. Comment in: Radiother Oncol 1996 Aug;40(2):187–9.
Radioiodine therapy and Graves' ophthalmopathy [letter; comment] Bartalena L, et al. **Thyroid** 1996 Jun;6(3):253. Comment on: Thyroid 1995 Dec;5(6):477–80.
Radioiodine and the immune system. DeGroot LJ. **Thyroid** 1997 Apr;7(2):259–64 (21 ref.)
Treatment of Graves' hyperthyroidism with radioiodine: results of a prospective randomized study. Peters H, et al. **Thyroid** 1997 Apr;7(2):247–51
International differences in approaches to 131I therapy for Graves' disease: case selection and restrictions recommended to patients in Japan, Korea, and China. Tominaga T, et al. **Thyroid** 1997 Apr;7(2):217–20
Radioiodine therapy for Graves' disease: case selection and restrictions recommended to patients in North America. Wartofsky L. **Thyroid** 1997 Apr;7(2):213–6 (24 ref.)
[Effects of external orbital radiotherapy on the oculomotor muscle in Graves disease] Maalouf T, et al. **J Fr Ophtalmol** 1996;19(12):748–54 (20 ref.) (Eng. Abstr.) **(Fre)**
[Volume reduction of the thyroid after radioiodine therapy in patients with autonomous goiter and Basedow's goiter] Dederichs B, et al. **Nuklearmedizin** 1996 Oct;35(5):164–9 (Eng. Abstr.) **(Ger)**
[Impact of pretreatment variables on the outcome of standardized 131I therapy with 150 Gray in Graves' disease] Pfeilschifter J, et al. **Nuklearmedizin** 1997 Apr; 36(3):81–6 (Eng. Abstr.) **(Ger)**
[Radioiodine therapy of Basedow's disease—is there a therapeutic standard?] Moser E. **Zentralbl Chir** 1997; 122(4):227–30 (15 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Orbital decompression for thyroid orbitopathy. McNab AA. **Aust N Z J Ophthalmol** 1997 Feb;25(1):55–61
Coronal approach for rehabilitative orbital decompression in Graves' ophthalmopathy. Kalmann R, et al. **Br J Ophthalmol** 1997 Jan;81(1):41–5
Postoperative tetany in patients with Graves' disease: a risk factor analysis. Yamashita H, et al. **Clin Endocrinol (Oxf)** 1997 Jul;47(1):71–7
Graves' disease in children and adolescents. Late results of

surgical treatment. Rudberg C, et al. **Eur J Endocrinol** 1996 Jun;134(6):710–5

Thyroid morphology and function after surgical treatment of thyroid diseases. Mann B, et al. **Exp Clin Endocrinol Diabetes** 1996;104(3):271–7

Total thyroidectomy for Graves' disease. Razack MS, et al. **Head Neck** 1997 Aug;19(5):378–83

Intraoperative hypertension during thyroidectomy for Graves' disease. Sharma AK, et al. **J Assoc Physicians India** 1995 May;43(5):334–5

Staged operation for Graves' ophthalmopathy. Liao CL, et al. **J Formos Med Assoc** 1996 Sep;95(9):680–5

Sodium ipodate (oragrafin) in the preoperative preparation of Graves' hyperthyroidism. Tomaski SM, et al. **Laryngoscope** 1997 Aug;107(8):1066–70

Graves disease: correcting upper eyelid retraction [letter; comment] Frueh BR. **Ophthalmology** 1996 Nov; 103(11):1713–4. Comment on: Ophthalmology 1995 Mar;102(3):483–92.

The "triple technique" for treating stable Graves' ophthalmopathy. Tremolada C, et al. **Plast Reconstr Surg** 1997 Jul;100(1):40–8; discussion 49–50

Surgical treatment of Graves' disease: subtotal or total thyroidectomy? Miccoli P, et al. **Surgery** 1996 Dec; 120(6):1020–4; discussion 1024–5

Bone mineral density after surgical treatment for Graves' disease. Arata N, et al. **Thyroid** 1997 Aug;7(4):547–54

Factors affecting thyroid function after subtotal thyroidectomy for Graves' disease: case control study by remnant–weight matched–pair analysis. Ozaki O, et al. **Thyroid** 1997 Aug;7(4):555–9

Surgical treatment of Graves' disease in patients younger than 18 years. Söreide JA, et al. **World J Surg** 1996 Sep; 20(7):794–9; discussion 799–800

Preoperative change of thyroid stimulating hormone receptor antibody level: possible marker for predicting recurrent hyperthyroidism in patients with Graves' disease after subtotal thyroidectomy. Sugino K, et al. **World J Surg** 1996 Sep;20(7):801–6; discussion 806–7

[Can endocrine orbitopathy be modified by the extent of thyroid resection in Basedow's disease?] Witte J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:777–80 (Eng. Abstr.) **(Ger)**

[Basedow's disease—thyroidectomy or subtotal resection?] Böttger T. **Zentralbl Chir** 1997;122(4):231–5 (15 ref.) (Eng. Abstr.) **(Ger)**

[Hungarian connection of decompression surgery for endocrine orbitopathy] Pintér L. **Orv Hetil** 1997 May 18; 138(20):1273–4 **(Hun)**

[Which thyroidectomy in Basedow disease?] Pelizzo MR, et al. **Minerva Chir** 1996 Dec;51(12):1071–7 (Eng. Abstr.) **(Ita)**

[Preoperative intensive therapy and surgical anesthesia for patients with diffuse toxic goiter] Neimark MI, et al. **Anesteziol Reanimatol** 1996 May–Jun;(3):38–40 **(Rus)**

[Treatment of Graves disease. An endocrinologic–surgical perspective] Rastad J, et al. **Lakartidningen** 1997 May 28; 94(22):2077–8, 2081, 2083 (48 ref.) **(Swe)**

[Correction of the enteral syndrome in the surgical treatment of thyrotoxic goiter] Diachuk IO, et al. **Klin Khir** 1995; (1):17–9 **(Ukr)**

THERAPY

The treatment of Graves' ophthalmopathy in an incidence cohort [letter; comment] Frueh BR. **Am J Ophthalmol** 1996 Oct;122(4):599–600. Comment on: Am J Ophthalmol 1996 Feb;121(2):200–6.

Thyroid eye disease. Char DH. **Br J Ophthalmol** 1996 Oct; 80(10):922–6 (95 ref.)

Randomized trial of intravenous immunoglobulins versus prednisolone in Graves' ophthalmopathy. Kahaly G, et al. **Clin Exp Immunol** 1996 Nov;106(2):197–202

Graves' disease in children. Hung W. **Curr Ther Endocrinol Metab** 1997;6:77–81 (6 ref.)

Graves' ophthalmopathy: medical management. el Sheikh M, et al. **Curr Ther Endocrinol Metab** 1997;6:90–4 (4 ref.)

Changes in epitopes for thyroid–stimulating antibodies in Graves' disease sera during treatment of hyperthyroidism: therapeutic implications. Kim WB, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1953–9

Graves' hyperthyroidism: treatment with antithyroid drugs, surgery, or radioiodine—a prospective, randomized study. Thyroid Study Group. Törring O, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2986–93

Controversies related to the medical and surgical management of hyperthyroidism in children. Waldhausen JH. **Semin Pediatr Surg** 1997 Aug;6(3):121–7 (37 ref.)

Successful treatment of a patient with Graves' disease on hemodialysis complicated by antithyroid drug–induced granulocytopenia and angina pectoris. Miyasaka Y, et al. **Thyroid** 1997 Aug;7(4):621–4

Radioiodine treatment, ablation, and ophthalmopathy: a balanced perspective. Tallstedt L, et al. **Thyroid** 1997 Apr; 7(2):241–5 (22 ref.)

[Interdisciplinary treatment of thyroid diseases (editorial)] Junginger T, et al. **Zentralbl Chir** 1997;122(4):209 **(Ger)**

ULTRASONOGRAPHY

[Measurements of ultrasound reflectivity of oculomotor muscles in endocrine orbitopathy] Sucker J, et al. **Ophthalmologe** 1997 Jun;94(6):412–8 (Eng. Abstr.) **(Ger)**

[Role of Doppler color ultrasonography and of flowmetric analysis in the diagnosis and follow–up of Grave's disease] Sponza M, et al. **Radiol Med (Torino)** 1997 Apr;93(4):405–9 (Eng. Abstr.) **(Ita)**

[The dynamic observation of patients with diffuse toxic goiter in the postoperative period by means of echography] Kirillov IuB, et al. **Vestn Khir Im I I Grek** 1997;156(1):80–2 (Eng. Abstr.) **(Rus)**

URINE

Urinary glycosaminoglycans excretion in Graves' disease. Priestley GC, et al. **Acta Derm Venereol** 1996 Sep; 76(5):368–70

HPLC glycosaminoglycan analysis in patients with Graves' disease. Hansen C, et al. **Clin Sci (Colch)** 1997 May; 92(5):511–7

GRAVISTIMULATION see **GRAVITATION**

GRAVITATION

see related

GRAVITROPISM

Comparison of ground–based and space flight energy expenditure and water turnover in middle–aged healthy male US astronauts. Lane HW, et al. **Am J Clin Nutr** 1997 Jan;65(1):4–12

Cutaneous microvascular flow in the foot during simulated variable gravities. Chang DS, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R961–6

Application of acute maximal exercise to protect orthostatic tolerance after simulated microgravity [published errata appear in Am J Physiol 1996 Dec;271(6 Pt 2):section R following table of contents and 1996 Dec;271(6 Pt 3):section R following table of contents] Engelke KA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R837–47

An overview of the physiological effects of sustained high +Gz forces on human being. Fong KL, et al. **Ann Acad Med Singapore** 1997 Jan;26(1):94–103 (61 ref.)

Grasping of virtual objects in changed gravity. Bock O. **Aviat Space Environ Med** 1996 Dec;67(12):1185–9

Cervical intervertebral disc protrusion [letter; comment] Burton RR. **Aviat Space Environ Med** 1997 Apr;68(4):354 . Comment on: Aviat Space Environ Med 1996 Apr;67(4):351–3.

+Gz acceleration affects the trace minerals zinc, copper, and chromium in serum and urine of humans. Kikukawa A, et al. **Aviat Space Environ Med** 1996 Dec;67(12):1166–9

Assessment of the anti–G straining maneuver (AGSM) skill performance and reinforcement program. Lyons TJ, et al. **Aviat Space Environ Med** 1997 Apr;68(4):322–4

+GZ–induced neck injuries in Royal Australian Air Force fighter pilots. Newman DG. **Aviat Space Environ Med** 1997 Jun;68(6):520–4

Extended–coverage–bladder G–suits can provide improved G–tolerance and high Gz foot pain. Paul MA. **Aviat Space Environ Med** 1996 Mar;67(3):253–5

Differences between syncope resulting from rapid onset acceleration and orthostatic stress. Self DA, et al. **Aviat Space Environ Med** 1996 Jun;67(6):547–54

G–induced myocardium functional alterations are not related to structural changes in rat heart. Tran CC, et al. **Aviat Space Environ Med** 1996 Dec;67(12):1170–3

Effect of standing or walking on physiological changes induced by head down bed rest: implications for spaceflight. Vernikos J, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1069–79

Total and regional cerebral blood flow during recovery from G–LOC. Werchan PM, et al. **Aviat Space Environ Med** 1996 Aug;67(8):751–8

Muscle activity adapts to anti–gravity posture during pedalling in persons with post–stroke hemiplegia. Brown DA, et al. **Brain** 1997 May;120 (Pt 5):825–37

Rigid lens dynamics: lid effects. Carney LG, et al. **CLAO J** 1997 Jan;23(1):69–77

The influence of center of gravity and lens mass on rigid lens dynamics. Carney LG, et al. **CLAO J** 1996 Jul; 22(3):195–204

Gravity dependency of the gramicidin A channel conductivity. A model for gravity perception on the cellular level. Schatz A, et al. **Eur Biophys J** 1996; 25(1):37–41

Effect of body orientation with respect to gravity on directional accuracy of human pointing movements. Smetanin BN, et al. **Eur J Neurosci** 1997 Jan;9(1):7–11

Grip–force responses to unanticipated object loading: load direction reveals body– and gravity–referenced intrinsic task variables. Häger–Ross C, et al. **Exp Brain Res** 1996 Jun;110(1):142–50

Altered gravitational experience during early periods of life affects the static vestibulo–ocular reflex of tadpoles of the southern clawed toad, Xenopus laevis Daudin. Sebastian C, et al. **Exp Brain Res** 1996 Nov;112(2):213–22

A mechanism of adaptation to hypergravity in the statocyst of Aplysia californica. Pedrozo HA, et al. **Hear Res** 1996 Dec 1;102(1–2):51–62

Biochemical and functional differences in rat liver mitochondrial subpopulations obtained at different gravitational forces. Lanni A, et al. **Int J Biochem Cell Biol** 1996 Mar;28(3):337–43

Pulmonary blood flow distribution in standing horses is not dominated by gravity [see comments] Hlastala MP, et al. **J Appl Physiol** 1996 Sep;81(3):1051–61. Comment in: J Appl Physiol 1996 Sep;81(3):1049–50.

Muscle adaptations to hindlimb suspension in mature and old Fischer 344 rats. Stump CS, et al. **J Appl Physiol** 1997 Jun;82(6):1875–81

Three–dimensional analysis of the angular momentum of a pole–vaulter. Morlier J, et al. **J Biomech** 1996 Aug; 29(8):1085–90

A gene correlate of geotaxis near Adh (2–50.1) in Drosophila melanogaster. Stoltenberg SF, et al. **J Comp Psychol** 1996 Sep;110(3):252–9

Effect of reduced gravity on the preferred walk–run transition speed. Kram R, et al. **J Exp Biol** 1997 Feb;200 (Pt 4):821–6

Optomotor behaviour in Xenopus laevis tadpoles as a measure of the effect of gravity on visual and vestibular neural integration. Pronych SP, et al. **J Exp Biol** 1996 Dec; 199 (12):2689–701

Comparative electronmicroscopical investigations on the influences of altered gravity on cytochrome oxidase in the inner ear of fish: a spaceflight study. Nindl G, et al. **J Hirnforsch** 1996;37(3):291–300

Correlation of altered gravity and cytochrome oxidase activity in the developing fish brain. Paulus U, et al. **J Hirnforsch** 1996;37(1):103–7

Method–related variations in estimates of gravity correction values using electromechanical dynamometry: a knee extension study. Keating JL, et al. **J Orthop Sports Phys Ther** 1996 Sep;24(3):142–53

The influence of otoliths and somatic graviceptors on angular velocity estimation. Mittelstaedt ML, et al. **J Vestib Res** 1996 Sep–Oct;6(5):355–66

Influence of gravity on cardiovascular reflexes from skeletal muscle receptors. Essfeld D, et al. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S23–8 (26 ref.)

Gravitational moment correction in isokinetic dynamometry using anthropometric data. Kellis E, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):900–7

Upright exercise or supine lower body negative pressure exercise maintains exercise responses after bed rest. Lee SM, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):892–900

Adrenergic vascular control. Mano T. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S85–9

Chronic back disability: USAF officers at separation and exposure to +Gz. Voge VM, et al. **Mil Med** 1996 Apr; 161(4):221–4

Gravitational evidence for an undifferentiated Callisto. Anderson JD, et al. **Nature** 1997 May 15;387(6630):264–6

Gravitational scattering as a possible origin for giant planets at small stellar distances. Weidenschilling SJ, et al. **Nature** 1996 Dec 19–26;384(6610):619–21

The effect of gravity on oesophageal peristalsis in humans. Allen ML, et al. **Neurogastroenterol Motil** 1997 Jun; 9(2):71–6

Reaction of the paraventricular nucleus of the hypothalamus and the dorsal nucleus of the vagus of rats to change in the gravitational environment. Fidelina OV, et al. **Neurosci Behav Physiol** 1996 Sep–Dec;26(5):387–91

Utilizing gravity in the removal of a large intraocular foreign body. Ferencz JR, et al. **Ophthalmic Surg Lasers** 1997 Jun; 28(6):508–9

Histamine release from the hypothalamus induced by gravity change in rats and space motion sickness. Uno A, et al. **Physiol Behav** 1997 Jun;61(6):883–7

Gravity and the orientation of cell division. Helmstetter CE. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10195–8

The influence of microgravity on repair of radiation–induced DNA damage in bacteria and human fibroblasts. Horneck G, et al. **Radiat Res** 1997 Mar;147(3):376–84

Effect of gravity on lung exhaled nitric oxide at rest and during exercise. Pogliaghi S, et al. **Respir Physiol** 1997 Feb; 107(2):157–64

[Search of gravity force in the planning of arm pointing movements] Papaxanthis C, et al. **C R Seances Soc Biol Fil** 1996;190(5–6):613–9 (Eng. Abstr.) **(Fre)**

[Study of mineral saturation of lumbar vertebral bones in th course of systemic exposure to +Gz accelerations] Kaliakin VV, et al. **Aviakosm Ekolog Med** 1996;30(5):9–13 (Eng. Abstr.) **(Rus)**

[Effects of preliminary loading on dynamic strength of the spine] Moiseev IuB, et al. **Aviakosm Ekolog Med** 1996; 30(4):31–4 (Eng. Abstr.) **(Rus)**

[Prophylactic use of prostatilen in rats prior to exposure to +Gz loads as a way of reducing changes in urogenital organs] Novikov VS, et al. **Aviakosm Ekolog Med** 1997; 31(2):25–7 (Eng. Abstr.) **(Rus)**

[Prediction of G–load (Gz) tolerance based on various functional tests] Suvorov PM, et al. **Aviakosm Ekolog Med** 1996;30(5):4–9 (Eng. Abstr.) **(Rus)**

[Methodological problems of the impact of G–loads on the functional status and occupation health of the pilot] Vartbaronov RA, et al. **Vestn Ross Akad Med Nauk** 1996; (7):19–26 (Eng. Abstr.) **(Rus)**

GRAVITROPISM

GENETICS

The RHG gene is involved in root and hypocotyl gravitropism in Arabidopsis thaliana. Fukaki H, et al.

Plant Cell Physiol 1997 Jul;38(7):804–10
Mutations in the SGR4, SGR5 and SGR6 loci of Arabidopsis thaliana alter the shoot gravitropism. Yamauchi Y, et al. **Plant Cell Physiol** 1997 May;38(5):530–5
SGR1, SGR2, SGR3: novel genetic loci involved in shoot gravitropism in Arabidopsis thaliana. Fukaki H, et al. **Plant Physiol** 1996 Mar;110(3):945–55

PHYSIOLOGY

Plant gravitropic response. Merkys A, et al. **Adv Space Biol Med** 1997;6:213–30 (56 ref.)
Plant tropisms: the ins and outs of auxin. Estelle M. **Curr Biol** 1996 Dec 1;6(12):1589–91 (10 ref.)
Reduced gravitropism in hypocotyls of starch-deficient mutants of Arabidopsis. Kiss JZ, et al. **Plant Cell Physiol** 1997 May;38(5):518–25
Gravitropic response of inflorescence stems in Arabidopsis thaliana. Fukaki H, et al. **Plant Physiol** 1996 Mar; 110(3):933–43
Cytokinin, acting through ethylene, restores gravitropism to Arabidopsis seedlings grown under red light. Golan A, et al. **Plant Physiol** 1996 Nov;112(3):901–4

GRAVITY see **GRAVITATION**

GRAVITY, ALTERED

An engineering approach to miogravity syndrome. Sieving DL. **Aviat Space Environ Med** 1997 Apr;68(4):346–8 (25 ref.)
Saccule contribution to immediate early gene induction in the gerbil brainstem with posterior canal galvanic or hypergravity stimulation. Marshburn TH, et al. **Brain Res** 1997 Jun 27;761(1):51–8
NASA slices biology program on station [news] Lawler A. **Science** 1996 Oct 25;274(5287):495
[Reaction of rat neuromuscular junctions during changes in gravity (an electron microscopic study)] Umnova MM, et al. **Dokl Akad Nauk** 1997 Jan;352(2):268–72 **(Rus)**
[Patterns in the growth and functioning of single-cell organisms under conditions of altered gravitational force] Tairbekov MG, et al. **Izv Akad Nauk Ser Biol** 1997 May-Jun;(3):266–73 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Monitoring acute whole-body fluid redistribution by changes in leg and neck volumes. Watenpaugh DE, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):858–62

GRAVITY, ARTIFICIAL see **GRAVITY, ALTERED**

GRAVITY PERCEPTION

PHYSIOLOGY

Frequency effect of 0.35–1.0 Hz horizontal translational oscillation on motion sickness and the somatogravic illusion. Golding JF, et al. **Aviat Space Environ Med** 1997 May;68(5):396–402
Unusual vestibular and visual input in human dynamic balance as a motion sickness susceptibility test. Séverac Cauquil A, et al. **Aviat Space Environ Med** 1997 Jul; 68(7):588–95
Gravity dependency of the gramicidin A channel conductivity. A model for gravity perception on the cellular level. Schatz A, et al. **Eur Biophys J** 1996; 25(1):37–41
Cellular graviperception in the basidiomycete Flammulina velutipes--can the nuclei serve as fungal statoliths? Monzer J. **Eur J Cell Biol** 1996 Oct;71(2):216–20
Centre of gravity of the body during the ontogeny of chimpanzee bipedal walking. Kimura T. **Folia Primatol (Basel)** 1996;66(1–4):126–36
Unified theory regarding A/P and M/L balance in quiet stance. Winter DA, et al. **J Neurophysiol** 1996 Jun; 75(6):2334–43
Perception of spatial orientation in spasmodic torticollis. Part I: The postural vertical. Anastasopoulos D, et al. **Mov Disord** 1997 Jul;12(4):561–9

GRAVITY SENSING see **GRAVITY PERCEPTION**

GRAVITY SUITS see **G SUITS**

GRAWITZ TUMOR see **CARCINOMA, RENAL CELL**

GRAYLINGS see **SALMONIDAE**

GREEK WORLD

Health care in ancient Rome. Lessons for doctors today. Callahan RD. **N C Med J** 1997 May-Jun;58(3):202–4

GREEN FROG see **RANA ESCULENTA**

GREEN MONKEY see **CERCOPITHECUS AETHIOPS**

GREEN SULFUR BACTERIA

CHEMISTRY

Redox titration of two [4Fe-4S] clusters in the photosynthetic reaction center from the anaerobic green sulfur bacterium Chlorobium vibrioforme. Scott MP, et al. **Eur J Biochem** 1997 Mar 1;244(2):454–61
Crystallization and X-ray analysis of the reaction center from the thermophilic green bacterium Chloroflexus aurantiacus. Feick R, et al. **FEBS Lett** 1996 Nov 4;396(2–3):161–4
Crystal structure of the bacteriochlorophyll a protein from Chlorobium tepidum. Li YF, et al. **J Mol Biol** 1997 Aug 22;271(3):456–71

CLASSIFICATION

Phylogeny and molecular fingerprinting of green sulfur bacteria. Overmann J, et al. **Arch Microbiol** 1997 May; 167(5):302–9
Phylogeny of the genus Chlorobium based on 16S rDNA sequence. Figueras JB, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):31–6
Structure and composition of freshwater microbial mats from a sulfur spring ("Font Pudosa", NE Spain). Martínez A, et al. **Microbiologia** 1997 Mar;13(1):45–56

ENZYMOLOGY

Membrane-associated c-type cytochromes from the green sulfur bacterium Chlorobium limicola forma thiosulfatophilum: purification and characterization of cytochrome c553. Albouy D, et al. **Biochemistry** 1997 Feb 18;36(7):1927–32
Malate dehydrogenase from the mesophile Chlorobium vibrioforme and from the mild thermophile Chlorobium tepidum: molecular cloning, construction of a hybrid, and expression in Escherichia coli. Naterstad K, et al. **J Bacteriol** 1996 Dec;178(24):7047–52
The reductive tricarboxylic acid cycle of carbon dioxide assimilation: initial studies and purification of ATP-citrate lyase from the green sulfur bacterium Chlorobium tepidum. Wahlund TM, et al. **J Bacteriol** 1997 Aug;179(15):4859–67

GENETICS

Characterization of csmB genes, encoding a 7.5-kDa protein of the chlorosome envelope, from the green sulfur bacteria Chlorobium vibrioforme 8327D and Chlorobium tepidum. Chung S, et al. **Arch Microbiol** 1996 Oct;166(4):234–44
Phylogeny and molecular fingerprinting of green sulfur bacteria. Overmann J, et al. **Arch Microbiol** 1997 May; 167(5):302–9
Evidence that eukaryotic triosephosphate isomerase is of alpha-proteobacterial origin. Keeling PJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1270–5

GROWTH & DEVELOPMENT

Biodiversity within hot spring microbial mat communities: molecular monitoring of enrichment cultures. Ward DM, et al. **Antonie Van Leeuwenhoek** 1997 Feb;71(1–2):143–50

METABOLISM

Viscosity dependence of the electron transfer rate from bound cytochrome c to P840 in the photosynthetic reaction center of the green sulfur bacterium Chlorobium tepidum. Oh-oka H, et al. **Biochemistry** 1997 Jul 29;36(30):9267–72
Polymer ultrathin films with immobilized photosynthetic reaction center proteins. Kalabina NA, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):138–42
Redox effects on the excited-state lifetime in chlorosomes and bacteriochlorophyll c oligomers. van Noort PI, et al. **Biophys J** 1997 Jan;72(1):316–25

PHYSIOLOGY

Structure of bacteriochlorophyll aggregates in chlorosomes of green bacteria: a spectral hole burning study. Novoderezhkin VI, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):243–52
Excitation energy transfer in chlorosomes of green bacteria: theoretical and experimental studies. Fetisova Z, et al. **Biophys J** 1996 Aug;71(2):995–1010

ULTRASTRUCTURE

Functioning of oligomeric-type light-harvesting antenna. Timpmann KE, et al. **Biochem Mol Biol Int** 1997 Jun; 42(1):21–7

GREENHOUSE EFFECT

Potential changes in the distribution of dengue transmission under climate warming. Jetten TH, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):285–97
Climate change and malaria transmission. Lindsay SW, et al. **Ann Trop Med Parasitol** 1996 Dec;90(6):573–88 (82 ref.)
Climate change and public health: our priorities [letter; comment] Blumer C. **Aust N Z J Public Health** 1996 Feb; 20(1):103–4. Comment on: Aust J Public Health 1995 Dec;19(6):543–5.
Global warming and health: a review. Amofah GK. **East Afr Med J** 1996 Aug;73(8):560–2 (30 ref.)
The potential effect of global warming on the geographic and seasonal distribution of Phlebotomus papatasi in southwest Asia. Cross ER, et al. **Environ Health Perspect** 1996 Jul;104(7):724–7
An evaluation of climate/mortality relationships in large U.S. cities and the possible impacts of a climate change. Kalkstein LS, et al. **Environ Health Perspect** 1997 Jan; 105(1):84–93
Cosmic radiation and ozone. Hack M. **Eur J Cancer Prev** 1996 Oct;5(5):378–9 (4 ref.)
Climate change and human health [news] Jones JS. **S Afr Med J** 1997 Jan;87(1):13–4
[Effects of global climate change on Japanese cedar pollen concentration in air--estimated results obtained from Yamagata City and its surrounding area] Takahashi Y, et al. **Arerugi** 1996 Dec;45(12):1270–6 (Eng. Abstr.) **(Jpn)**
[Health care personnel could slow down the greenhouse effect (letter)] Eriksson NE. **Lakartidningen** 1997 Jul 23; 94(30–31):2632 **(Swe)**

GRENZ RAYS see **X-RAYS**

GRIEF

Adolescents' perceptions and experiences of death and grieving. Morin SM, et al. **Adolescence** 1996 Fall; 31(123):585–95
Grief. Vancouver Conference Review. Folkman S, et al. **AIDS Care** 1997 Feb;9(1):39–43
Prediction of grief and HIV/AIDS-related burnout in volunteers. Nesbitt WH, et al. **AIDS Care** 1996 Apr; 8(2):137–43
Patterns of grief reaction after pregnancy loss. Lin SX, et al. **Am J Orthopsychiatry** 1996 Apr;66(2):262–71
Diagnostic criteria for complicated grief disorder. Horowitz MJ, et al. **Am J Psychiatry** 1997 Jul;154(7):904–10
Traumatic grief: a case of loss-induced trauma [clinical conference] Prigerson HG, et al. **Am J Psychiatry** 1997 Jul;154(7):1003–9
Traumatic grief as a risk factor for mental and physical morbidity. Prigerson HG, et al. **Am J Psychiatry** 1997 May; 154(5):616–23
Complicated grief as a disorder distinct from bereavement-related depression and anxiety: a replication study. Prigerson HG, et al. **Am J Psychiatry** 1996 Nov; 153(11):1484–6
The healing touch. Lusk RC. **Ann Intern Med** 1997 Sep 15; 127(6):486
Bereavement and late-life depression: grief and its complications in the elderly. Rozenzweig A, et al. **Annu Rev Med** 1997;48:421–8 (43 ref.)
Anxiety among widowed elders: is it distinct from depression and grief? Prigerson HG, et al. **Anxiety** 1996;2(1):1–12
Physician reactions to the health care revolution. A grief model approach. Daugird A, et al. **Arch Fam Med** 1996 Oct;5(9):497–500; discussion 501
A prospective study of risk factors predicting grief intensity following pregnancy loss. Janssen HJ, et al. **Arch Gen Psychiatry** 1997 Jan;54(1):56–61
The psychological sequelae of miscarriage: a critical review of the literature. Frost M, et al. **Aust N Z J Psychiatry** 1996 Feb;30(1):54–62 (123 ref.)
Survivor guilt and chronic illness. Vamos M. **Aust N Z J Psychiatry** 1997 Aug;31(4):592–6
Sleep in the wake of complicated grief symptoms: an exploratory study. McDermott OD, et al. **Biol Psychiatry** 1997 Mar 15;41(6):710–6
Psychological stress, cancer incidence and mortality from non-malignant diseases. Johansen C, et al. **Br J Cancer** 1997;75(1):144–8
Children and loss. Monroe B, et al. **Br J Hosp Med** 1996 Sep 18–Oct 1;56(6):260–4
Dementia: an intimate death. Garner J. **Br J Med Psychol** 1997 Jun;70 (Pt 2):177–84 (37 ref.)
Prediction and course of grief four years after perinatal loss due to congenital anomalies: a follow-up study. Hunfeld JA, et al. **Br J Med Psychol** 1997 Mar;70 (Pt 1):85–91
The grief response in the partners of women who miscarry. Johnson MP, et al. **Br J Med Psychol** 1996 Dec;69 (Pt 4):313–27
Tales of the crypt for psychiatrists: mourning, melancholia, and mortuary malpractice. Eth S, et al. **Bull Am Acad Psychiatry Law** 1996;24(4):483–92
Separation, termination process and long-term outcome in psychotherapy with severely disturbed patients. Werbart A. **Bull Menninger Clin** 1997 Winter;61(1):16–43
Teaching euthanasia: the integration of the practice of euthanasia into the grief, death, and dying curricula of postgraduate family medicine training. Kimsma GK, et al. **Camb Q Healthc Ethics** 1996 Winter;5(1):107–12
Managing spiritual distress in patients with advanced cancer pain. Georgesen J, et al. **Cancer Nurs** 1996 Oct;19(5):376–83 (20 ref.)
Needs and responses of parents following the diagnosis of childhood cancer. Sloper P. **Child Care Health Dev** 1996 May;22(3):187–202
Grief in family and cultural context: learning from Latino families. Shapiro ER. **Cult Divers Ment Health** 1995; 1(2):159–76
Grief recovery: helping those who've had to say goodbye. Anderson EG. **Geriatrics** 1997 Sep;52(9):103–4
Depression or grief? The experience of caregivers of people with dementia. Walker RJ, et al. **Health Soc Work** 1996 Nov;21(4):247–54
Bereavement, grieving and psychological morbidity after first trimester spontaneous abortion: comparing expectant management with surgical evacuation. Nielsen S, et al. **Hum Reprod** 1996 Aug;11(8):1767–70

GRIEF

Restructuring life after home loss by fire. Stern PN, et al. **Image J Nurs Sch** 1996 Spring;28(1):11–6

Participation in leisure activities by older adults after a stressful life event: the loss of a spouse. Patterson I. **Int J Aging Hum Dev** 1996;42(2):123–42

The psychological symptoms of conjugal bereavement in elderly men over the first 13 months. Byrne GJ, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):241–51

Mourning: a review and reconsideration. Hagman G. **Int J Psychoanal** 1995 Oct;76 (Pt 5):909–25 (87 ref.)

Grey glasses: sadness in young women. Gramling LF, et al. **J Adv Nurs** 1997 Aug;26(2):312–9

The grief experience of older women whose husbands had hospice care. Jacob SR. **J Adv Nurs** 1996 Aug;24(2):280–6

Psychotherapy of the medically ill: the role of object relations in body image and grief. Bronheim H. **J Am Acad Psychoanal** 1996 Fall;24(3):515–25

A survey of grief and bereavement in nursing homes: the importance of hospice grief and bereavement for the end-stage Alzheimer's disease patient and family [see comments] Murphy K, et al. **J Am Geriatr Soc** 1997 Sep; 45(9):1104–7. Comment in: J Am Geriatr Soc 1997 Sep;45(9):1147–9.

Psychological elements of attachment to pets and responses to pet loss. Stern M. **J Am Vet Med Assoc** 1996 Nov 15; 209(10):1707–11

Veterinarians and their human clients. Stutts JC. **J Am Vet Med Assoc** 1997 Jun 15;210(12):1742–4

The management of grief in work with infertile couples. Christie GL. **J Assist Reprod Genet** 1997 Apr;14(4):189–91

Cross-modality grief therapy: description and assessment of a new program. Schut HA, et al. **J Clin Psychol** 1996 May; 52(3):357–65

Parents' experience surrounding the death of a newborn whose birth is at the margin of viability. Kavanaugh K. **J Obstet Gynecol Neonatal Nurs** 1997 Jan–Feb;26(1):43–51

Facilitating perinatal grieving between the mother and the father. Wallerstedt C, et al. **J Obstet Gynecol Neonatal Nurs** 1996 Jun;25(5):389–94 (35 ref.)

The broken heart: anticipatory grief in the child facing death. Sourkes BM. **J Palliat Care** 1996 Autumn;12(3):56–9

Helping spouses with chronic sorrow related to multiple sclerosis. Hainsworth MA. **J Psychosoc Nurs Ment Health Serv** 1996 Jun;34(6):36–40

Pregnancy following miscarriage: course of grief and some determining factors. Cuisinier M, et al. **J Psychosom Obstet Gynaecol** 1996 Sep;17(3):168–74

Similarities and differences in couples' grief reactions following a miscarriage: results from a longitudinal study. Beutel M, et al. **J Psychosom Res** 1996 Mar;40(3):245–53

A response to bereavement [news]. Mani MK. **Natl Med J India** 1997 Mar–Apr;10(2):90–1

"Coding" the patient with cancer: nurses facilitate family acceptance and grief. Boyle DM. **Oncol Nurs Forum** 1997 Apr;24(3):458

Loss, grief, and the search for meaning. Steeves RH. **Oncol Nurs Forum** 1996 Jul;23(6):897–903

Dying, death, and grief. Helping patients and their families through the process. Krigger KW, et al. **Postgrad Med** 1997 Mar;101(3):263–70 (8 ref.)

Supporting relatives following a cot death. Phillips BM. **Postgrad Med J** 1996 Nov;72(853):648–52 (13 ref.)

Examination of grief among family members of individuals with serious and persistent mental illness. Solomon P, et al. **Psychiatr Q** 1996 Fall;67(3):221–34

Lessons learned from providing disaster counseling after TWA flight 800. Cohen NL. **Psychiatr Serv** 1997 Apr; 48(4):461–2

"Do not go gentle into that good night": when a psychiatric hospital closes. Craig CQ. **Psychiatr Serv** 1997 Apr; 48(4):541–2

Grief therapy for relatives of persons with serious mental illness. Miller FE. **Psychiatr Serv** 1996 Jun;47(6):633–7

Grief education and bereavement support in Japan. Deeken A. **Psychiatry Clin Neurosci** 1995 May;49 Suppl 1:S129–33 (6 ref.)

Psychological care for the bereaved. Hirayama M. **Psychiatry Clin Neurosci** 1995 May;49 Suppl 1:S135–7 (2 ref.)

The role of the other in mourning. Hagman G. **Psychoanal Q** 1996 Apr;65(2):327–52

Do couples grieve differently following infant loss? Hunfeld JA, et al. **Psychol Rep** 1996 Oct;79(2):407–10

On the nature and consequences of early loss. Hofer MA. **Psychosom Med** 1996 Nov–Dec;58(6):570–81 (50 ref.)

Posttraumatic stress symptoms, intrusive thoughts, loss, and immune function after Hurricane Andrew [see comments] Ironson G, et al. **Psychosom Med** 1997 Mar–Apr; 59(2):128–41. Comment in: Psychosom Med 1997 Mar–Apr;59(2):142–3.

Dealing with devastation [editorial] Freeman JW. **S D J Med** 1996 Oct;49(10):359–60

Chronic sorrow in persons with Parkinson's and their spouses. Lindgren CL. **Sch Inq Nurs Pract** 1996 Winter; 10(4):351–66; discussion 367–70

The social construction of anticipatory grief. Fulton G, et al. **Soc Sci Med** 1996 Nov;43(9):1349–58 (69 ref.)

Coping with loss of ability: "good grief" or episodic stress responses? Hewson D. **Soc Sci Med** 1997 Apr;44(8):1129–39

Dissonant Loss: the experiences of donor relatives. Sque M, et al. **Soc Sci Med** 1996 Nov;43(9):1359–70

[Breaking bad news—experience and attitude of young physicians] Nielsen D, et al. **Ugeskr Laeger** 1997 May 5; 159(19):2862–6 (Eng. Abstr.) **(Dan)**

[A chaplain in a palliative care center: professional grief and resources] Pictet C. **Rev Med Suisse Romande** 1997 Mar; 117(3):224–5 **(Fre)**

[Psychological coping with stillbirth. Course of grief response, influential factors, treatment satisfaction, patient management needs] Kuse-Isingschulte MW, et al. **Geburtshilfe Frauenheilkd** 1996 Jul;56(7):380–9 (Eng. Abstr.) **(Ger)**

[Grief for loss of a spouse: a study with discussion groups in primary care] García-García JA, et al. **Aten Primaria** 1996 Nov 30;18(9):475–9 (Eng. Abstr.) **(Spa)**

[What does rational handling mean? Be careful with a psychiatric diagnosis! (see comments)] Jersild PC. **Lakartidningen** 1997 Feb 5;94(6):404–5. Comment in: Lakartidningen 1997 May 14;94(20):1868. **(Swe)**

GRIEVANCES, EMPLOYEE see **EMPLOYEE GRIEVANCES**

GRIP see **HAND STRENGTH**

GRIPPE see **INFLUENZA**

GRISEOFULVIN

ADMINISTRATION & DOSAGE

Treatment of onychomycosis: a randomized, double-blind comparison study with topical bifonazole-urea ointment alone and in combination with short-duration oral griseofulvin. Friedman-Birnbaum R, et al. **Int J Dermatol** 1997 Jan;36(1):67–9

ADVERSE EFFECTS

Microsporum canis infections in children: results of a new oral antifungal therapy. Ginter G. **Mycoses** 1996 Jul–Aug; 39(7–8):265–9

Microphthalmia, brachygnathia superior, and palatocheiloschisis in a foal associated with griseofulvin administration to the mare during early pregnancy. Schutte JG, et al. **Vet Q** 1997 Jun;19(2):58–60

ANALOGS & DERIVATIVES

Syntheses and antifungal activity of dl-griseofulvin and its congeners. II. Takeuchi Y, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):327–32

PHARMACOLOGY

Griseofulvin-induced hepatopathy due to abnormalities in heme pathway. Polo CF, et al. **Gen Pharmacol** 1997 Aug; 29(2):207–10

Mallory body induction in drug-primed mouse liver. Yuan QX, et al. **Hepatology** 1996 Sep;24(3):603–12

In vitro susceptibility of Trichophyton rubrum isolates to griseofulvin and tioconazole. Induction and isolation of a resistant mutant to both antimycotic drugs. Mutant of Trichophyton rubrum resistant to griseofulvin and tioconazole. Fachin AL, et al. **Mycopathologia** 1996; 135(3):141–3

Regulation of CYP 2 A 5 induction by porphyrinogenic agents in mouse primary hepatocytes. Salonpää P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):8–13

Griseofulvin and fluvoxamine interactions with the metabolism of theophylline. Rasmussen BB, et al. **Ther Drug Monit** 1997 Feb;19(1):56–62

THERAPEUTIC USE

Response to initial griseofulvin therapy in pediatric patients with tinea capitis. Abdel-Rahman SM, et al. **Ann Pharmacother** 1997 Apr;31(4):406–10

A multicentre (double-blind) comparative study to assess the safety and efficacy of fluconazole and griseofulvin in the treatment of tinea corporis and tinea cruris. Faergemann J, et al. **Br J Dermatol** 1997 Apr;136(4):575–7

Unusual treatment of severe cutaneous lupus. Barrett CA, et al. **Br J Hosp Med** 1996 Oct 2–15;56(7):368–9

Tinea capitis in California children: a population-based study of a growing epidemic. Lobato MN, et al. **Pediatrics** 1997 Apr;99(4):551–4

TOXICITY

Cytogenetic effect of griseofulvin in mouse spermatocytes. Fahmy MA, et al. **J Appl Toxicol** 1996 Mar–Apr; 16(2):177–83

GRIVET MONKEY see **CERCOPITHECUS AETHIOPS**

GRNA see **RNA, GUIDE**

GROEL PROTEIN

[The molecular mechanism of recognition of target proteins by GroEL] Kuwajima K. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(7):860–7 (46 ref.) **(Jpn)**

BIOSYNTHESIS

Induction of DnaK and GroEL heat shock proteins by fluoroquinolones in Escherichia coli. Mizushima T, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):193–5

Induction of heat shock proteins DnaK, GroEL, and GroES by salt stress in Lactococcus lactis. Kilstrup M, et al. **Appl Environ Microbiol** 1997 May;63(5):1826–37

CHEMISTRY

Nucleotide-dependent complex formation between the Escherichia coli chaperonins GroEL and GroES studied under equilibrium conditions. Behlke J, et al. **Biochemistry** 1997 Apr 29;36(17):5149–56

GroES promotes the T to R transition of the GroEL ring distal to GroES in the GroEL-GroES complex. Inbar E, et al. **Biochemistry** 1997 Oct 7;36(40):12276–81

Role of chaperonins in protein folding. A new model of the GroEL/GroES complex architecture. Basharov MA. **Biochemistry (Mosc)** 1997 Apr;62(4):416–24

Identification of amino acid residues at nucleotide-binding sites of chaperonin GroEL/GroES and cpn10 by photoaffinity labeling with 2-azido-adenosine 5'-triphosphate. Bramhall EA, et al. **Eur J Biochem** 1997 Mar 1;244(2):627–34

Ligands regulate GroEL thermostability. Surin AK, et al. **FEBS Lett** 1997 Apr 1;405(3):260–2

Kinetic significance of GroEL14.(GroES7)2 complexes in molecular chaperone activity. Corrales FJ, et al. **Fold Des** 1996;1(4):265–73

Intrinsic fluorescence studies of the chaperonin GroEL containing single Tyr —> Trp replacements reveal ligand-induced conformational changes. Gibbons DL, et al. **J Biol Chem** 1996 Dec 13;271(50):31989–95

Conditions of forming protein complexes with GroEL can influence the mechanism of chaperonin-assisted refolding. Gorovits BM, et al. **J Biol Chem** 1997 Jan 3;272(1):32–5

How GroES regulates binding of nonnative protein to GroEL. Sparrer H, et al. **J Biol Chem** 1997 May 30; 272(22):14080–6

Application of reversible biotinylated label for directed immobilization of synthetic peptides and proteins: isolation of ligates from crude cell lysates. Ball HL, et al. **J Pept Sci** 1997 Jul–Aug;3(4):252–60

Anfinsen's cage [editorial; comment] **Nat Struct Biol** 1997 Sep;4(9):675–6. Comment on: Nat Struct Biol 1997 Sep;4(9):690–4.

Structural basis of allosteric changes in the GroEL mutant Arg197-->Ala [letter] [see comments] White HE, et al. **Nat Struct Biol** 1997 Sep;4(9):690–4. Comment in: Nat Struct Biol 1997 Sep;4(9):675–6.

Protein folding. Folding with a two-stroke motor [news; comment] Lorimer G. **Nature** 1997 Aug 21; 388(6644):720–1, 723. Comment on: Nature 1997 Aug 21;388(6644):741–9. Comment on: Nature 1997 Aug 21;388(6644):792–8.

Distinct actions of cis and trans ATP within the double ring of the chaperonin GroEL [see comments] Rye HS, et al. **Nature** 1997 Aug 21;388(6644):792–8. Comment in: Nature 1997 Aug 21;388(6644):720–1, 723.

The crystal structure of the asymmetric GroEL-GroES-(ADP)7 chaperonin complex [see comments] Xu Z, et al. **Nature** 1997 Aug 21; 388(6644):741–50. Comment in: Nature 1997 Aug 21;388(6644):720–1, 723.

Detection of changes in pairwise interactions during allosteric transitions: coupling between local and global conformational changes in GroEL. Aharoni A, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1698–702

Refolding chromatography with immobilized mini-chaperones. Altamirano MM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3576–8

A structural model for GroEL-polypeptide recognition. Buckle AM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3571–5

Interplay of structure and disorder in cochaperonin mobile loops. Landry SJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11622–7

Evidence for a lipochaperonin: association of active protein-folding GroESL oligomers with lipids can stabilize membranes under heat shock conditions. Török Z, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2192–7

Chaperone activity and structure of monomeric polypeptide binding domains of GroEL [see comments] Zahn R, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15024–9. Comment in: Proc Natl Acad Sci U S A 1997 Jan 7;94(1):7–8.

GroEL-mediated protein folding. Fenton WA, et al. **Protein Sci** 1997 Apr;6(4):743–60 (121 ref.)

Solution structures of GroEL and its complex with rhodanese from small-angle neutron scattering. Thiyagarajan P, et al. **Structure** 1996 Jan 15;4(1):79–88

[Denatured transitions of the molecular chaperone GroEL from Escherichia coli] Surin AK, et al. **Bioorg Khim** 1997 Apr;23(4):251–6 (Eng. Abstr.) **(Rus)**

GENETICS

Structure of the dnaA region of the endosymbiont, Buchnera aphidicola, of aphid Schizaphis graminum. Hassan AK, et al. **DNA Res** 1996 Dec 31;3(6):415–9

Sequence and transcriptional analysis of groES and groEL genes from the thermophilic bacterium Clostridium

thermocellum. Ciruela A, et al. **Gene** 1997 Feb 20; 186(1):143–7
Deletion of Escherichia coli groEL is complemented by a Rhizobium leguminosarum groEL homologue at 37 degrees C but not at 43 degrees C. Ivic A, et al. **Gene** 1997 Jul 18;194(1):1–8
PCR amplification and comparison of nucleotide sequences from the groESL heat shock operon of Ehrlichia species. Sumner JW, et al. **J Clin Microbiol** 1997 Aug;35(8):2087–92
Heat shock response and groEL sequence of Bartonella henselae and Bartonella quintana. Haake DA, et al. **Microbiology** 1997 Aug;143 (Pt 8):2807–15
Chaperone–assisted protein expression. Cole PA. **Structure** 1996 Mar 15;4(3):239–42 (29 ref.)

IMMUNOLOGY

The clonal antibody response to Pseudomonas aeruginosa heat shock protein is highly diverse in cystic fibrosis patients. Ulanova M, et al. **APMIS** 1997 Jun;105(6):449–56
Preferential binding with Escherichia coli hsp60 of antibodies prevalent in sera from patients with rheumatoid arthritis. Hirata D, et al. **Clin Immunol Immunopathol** 1997 Feb; 82(2):141–8
Role of immune responses to a GroEL heat shock protein in preventing brucellosis in mice vaccinated with Brucella abortus strain RB51. Stevens MG, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):147–53
Ehrlichia sennetsu groE operon and antigenic properties of the GroEL homolog. Zhang Y, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):39–46
Immunological response to the Brucella abortus GroEL homolog. Lin J, et al. **Infect Immun** 1996 Oct; 64(10):4396–400

ISOLATION & PURIFICATION

Purification and characterization of a GroEL homologue from the moderately eubacterial halophile Pseudomonas sp. #43. Tokunaga M, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):321–6
A method for the separation of GST fusion proteins from co–purifying GroEL. Thain A, et al. **Trends Genet** 1996 Jun;12(6):209–10

METABOLISM

The ATPase activity of chaperonin GroEL is highly stimulated at elevated temperatures. Mendoza JA, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):271–4
GroEL reversibly binds to, and causes rapid inactivation of, human carbonic anhydrase II at high temperatures. Persson M, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):191–8
In vivo observation of polypeptide flux through the bacterial chaperonin system. Ewalt KL, et al. **Cell** 1997 Aug 8; 90(3):491–500
Kinesis of polypeptide during GroEL–mediated folding. Horwich AL, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:435–40 (35 ref.)
The chaperonin cycle cannot substitute for prolyl isomerase activity, but GroEL alone promotes productive folding of a cyclophilin–sensitive substrate to a cyclophilin–resistant form. von Ahsen O, et al. **EMBO J** 1997 Aug 1; 16(15):4568–78
Refolding and reassociation of glycerol dehydrogenase from Bacillus stearothermophilus in the absence and presence of GroEL. Krauss O, et al. **Eur J Biochem** 1996 Oct 15; 241(2):538–45
Folding intermediates of beta–lactamase recognized by GroEL. Gervasoni P, et al. **FEBS Lett** 1997 Jan 20; 401(2–3):138–42
GroES binding regulates GroEL chaperonin activity under heat shock. Goloubinoff P, et al. **FEBS Lett** 1997 Apr 28; 407(2):215–9
Phosphorylation of GroEL, DnaK and other proteins from Thiobacillus ferrooxidans grown under different conditions. Seeger M, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):129–34
Purification and characterization of a GroEL homologue from the moderately eubacterial halophile Pseudomonas sp. #43. Tokunaga M, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):321–6
Hydrogen–exchange kinetics of reduced alpha–lactalbumin bound to the chaperonin GroEL. Okazaki A, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):534–41
Conformational changes at the nucleotide binding of GroEL induced by binding of protein substrates. Luminescence studies. Churchich JE. **J Biol Chem** 1997 Aug 8; 272(32):19645–8
ATP hydrolysis is critical for induction of conformational changes in GroEL that expose hydrophobic surfaces. Gorovits BM, et al. **J Biol Chem** 1997 Mar 14; 272(11):6842–5
Trigger factor associates with GroEL in vivo and promotes its binding to certain polypeptides. Kandror O, et al. **J Biol Chem** 1997 Jan 17;272(3):1730–4
GroEL locked in a closed conformation by an interdomain cross–link can bind ATP and polypeptide but cannot process further reaction steps. Murai N, et al. **J Biol Chem** 1996 Nov 8;271(45):28229–34
ATP–, K+–dependent heptamer exchange reaction produces hybrids between GroEL and chaperonin from Thermus thermophilus. Taguchi H, et al. **J Biol Chem** 1997 Jul 18; 272(29):18155–60
Nucleotides reveal polynucleotide phosphorylase activity from conventionally purified GroEL. Ybarra J, et al. **J Biol Chem** 1996 Oct 11;271(41):25063–6
Interaction of GroEL with conformational states of horse cytochrome c. Hoshino M, et al. **J Mol Biol** 1996 Oct 4; 262(4):575–87
Dominant forces in the recognition of a transient folding intermediate of alpha–lactalbumin by GroEL. Katsumata K, et al. **J Mol Biol** 1996 Dec 13;264(4):643–9
Multiple cycles of global unfolding of GroEL–bound cyclophilin A evidenced by NMR. Nieba–Axmann SE, et al. **J Mol Biol** 1997 Sep 5;271(5):803–18
Importance of electrostatic interactions in the rapid binding of polypeptides to GroEL. Perrett S, et al. **J Mol Biol** 1997 Jun 27;269(5):892–901
The N–terminal region of the luteovirus readthrough domain determines virus binding to Buchnera GroEL and is essential for virus persistence in the aphid. van den Heuvel JF, et al. **J Virol** 1997 Oct;71(10):7258–65
Refolding with a piece of the ring [news] King J. **Nat Biotechnol** 1997 Jun;15(6):514–5
Dissecting intrinsic chaperonin activity [comment] Clore GM, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):7–8 . Comment on: Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15024–9.
Protein folding: how the mechanism of GroEL action is defined by kinetics. Frieden C, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5535–8
beta–Lactamase binds to GroEL in a conformation highly protected against hydrogen/deuterium exchange. Gervasoni P, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12189–94
Native–like structure of a protein–folding intermediate bound to the chaperonin GroEL. Goldberg MS, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1080–5
Interplay of structure and disorder in cochaperonin mobile loops. Landry SJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11622–7
The effect of macromolecular crowding on chaperonin–mediated protein folding. Martin J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1107–12
Catalysis of protein folding by symmetric chaperone complexes. Sparrer H, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1096–100
Evidence for a lipochaperonin: association of active protein–folding GroESL oligomers with lipids can stabilize membranes under heat shock conditions. Török Z, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2192–7
Chaperone activity and structure of monomeric polypeptide binding domains of GroEL [see comments] Zahn R, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15024–9. Comment in: Proc Natl Acad Sci U S A 1997 Jan 7;94(1):7–8.

PHARMACOLOGY

Mechanism of chaperonin action: GroES binding and release can drive GroEL–mediated protein folding in the absence of ATP hydrolysis. Hayer–Hartl MK, et al. **EMBO J** 1996 Nov 15;15(22):6111–21

PHYSIOLOGY

The chaperonin ATPase cycle: mechanism of allosteric switching and movements of substrate–binding domains in GroEL. Roseman AM, et al. **Cell** 1996 Oct 18;87(2):241–51
GroEL provides a folding pathway with lower apparent activation energy compared to spontaneous refolding of human carbonic anhydrase II. Persson M, et al. **FEBS Lett** 1997 Jul 7;411(1):43–7
Alterations in levels of DnaK and GroEL result in diminished survival and adherence of stressed Haemophilus ducreyi. Parsons LM, et al. **Infect Immun** 1997 Jun;65(6):2413–9
GroEL–mediated folding of structurally homologous dihydrofolate reductases. Clark AC, et al. **J Mol Biol** 1997 May 2;268(2):512–25
Assembly of membrane–containing bacteriophage PRD1 is dependent on GroEL and GroES. Hänninen AL, et al. **Virology** 1997 Jan 6;227(1):207–10

ULTRASTRUCTURE

Chaperonins GroEL and GroES: views from atomic force microscopy. Mou J, et al. **Biophys J** 1996 Oct;71(4):2213–21
Symmetric GroEL–GroES complexes can contain substrate simultaneously in both GroEL rings. Llorca O, et al. **FEBS Lett** 1997 Mar 24;405(2):195–9
Conformational changes in the GroEL oligomer during the functional cycle. Llorca O, et al. **J Struct Biol** 1997 Feb; 118(1):31–42

GROENOUW'S DYSTROPHIES see **CORNEAL DYSTROPHIES, HEREDITARY**

GROES PROTEIN

BIOSYNTHESIS

Induction of heat shock proteins DnaK, GroEL, and GroES by salt stress in Lactococcus lactis. Kilstrup M, et al. **Appl Environ Microbiol** 1997 May;63(5):1826–37

CHEMISTRY

Nucleotide–dependent complex formation between the Escherichia coli chaperonins GroEL and GroES studied under equilibrium conditions. Behlke J, et al. **Biochemistry** 1997 Apr 29;36(17):5149–56
GroES promotes the T to R transition of the GroEL ring distal to GroES in the GroEL–GroES complex. Inbar E, et al. **Biochemistry** 1997 Oct 7;36(40):12276–81
Role of chaperonins in protein folding. A new model of the GroEL/GroES complex architecture. Basharov MA. **Biochemistry (Mosc)** 1997 Apr;62(4):416–24
Putting a lid on protein folding: structure and function of the co–chaperonin, GroES. Fenton WA, et al. **Chem Biol** 1996 Mar;3(3):157–61 (37 ref.)
Identification of amino acid residues at nucleotide–binding sites of chaperonin GroEL/GroES and cpn10 by photoaffinity labeling with 2–azido–adenosine 5'–triphosphate. Bramhall EA, et al. **Eur J Biochem** 1997 Mar 1;244(2):627–34
Kinetic significance of GroEL14.(GroES7)2 complexes in molecular chaperone activity. Corrales FJ, et al. **Fold Des** 1996;1(4):265–73
How GroES regulates binding of nonnative protein to GroEL. Sparrer H, et al. **J Biol Chem** 1997 May 30; 272(22):14080–6
Anfinsen's cage [editorial; comment] **Nat Struct Biol** 1997 Sep;4(9):675–6. Comment on: Nat Struct Biol 1997 Sep;4(9):690–4.
Protein folding. Folding with a two–stroke motor [news; comment] Lorimer G. **Nature** 1997 Aug 21; 388(6644):720–1, 723. Comment on: Nature 1997 Aug 21;388(6644):741–9. Comment on: Nature 1997 Aug 21;388(6644):792–8.
The crystal structure of the asymmetric GroEL–GroES–(ADP)7 chaperonin complex [see comments] Xu Z, et al. **Nature** 1997 Aug 21; 388(6644):741–50. Comment in: Nature 1997 Aug 21;388(6644):720–1, 723.
Interplay of structure and disorder in cochaperonin mobile loops. Landry SJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11622–7
Evidence for a lipochaperonin: association of active protein–folding GroESL oligomers with lipids can stabilize membranes under heat shock conditions. Török Z, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2192–7
The lid that shapes the pot: structure and function of the chaperonin GroES. Saibil H. **Structure** 1996 Jan 15;4(1):1–4 (22 ref.)

GENETICS

Structure of the dnaA region of the endosymbiont, Buchnera aphidicola, of aphid Schizaphis graminum. Hassan AK, et al. **DNA Res** 1996 Dec 31;3(6):415–9
Sequence and transcriptional analysis of groES and groEL genes from the thermophilic bacterium Clostridium thermocellum. Ciruela A, et al. **Gene** 1997 Feb 20; 186(1):143–7
PCR amplification and comparison of nucleotide sequences from the groESL heat shock operon of Ehrlichia species. Sumner JW, et al. **J Clin Microbiol** 1997 Aug;35(8):2087–92
Two different mechanisms are involved in the heat–shock regulation of chaperonin gene expression in Bradyrhizobium japonicum. Babst M, et al. **Mol Microbiol** 1996 Feb;19(4):827–39
Chaperone–assisted protein expression. Cole PA. **Structure** 1996 Mar 15;4(3):239–42 (29 ref.)

IMMUNOLOGY

Determinants of T cell reactivity to the Mycobacterium leprae GroES homologue. Kim J, et al. **J Immunol** 1997 Jul 1;159(1):335–43
Nickel binding and immunological properties of the C–terminal domain of the Helicobacter pylori GroES homologue (HspA). Kansau I, et al. **Mol Microbiol** 1996 Dec;22(5):1013–23

METABOLISM

Role of the amino terminal domain in GroES oligomerization. Llorca O, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):47–56
Putting a lid on protein folding: structure and function of the co–chaperonin, GroES. Fenton WA, et al. **Chem Biol** 1996 Mar;3(3):157–61 (37 ref.)
Mechanism of chaperonin action: GroES binding and release can drive GroEL–mediated protein folding in the absence of ATP hydrolysis. Hayer–Hartl MK, et al. **EMBO J** 1996 Nov 15;15(22):6111–21
GroES binding regulates GroEL chaperonin activity under heat shock. Goloubinoff P, et al. **FEBS Lett** 1997 Apr 28; 407(2):215–9
GroEL locked in a closed conformation by an interdomain cross–link can bind ATP and polypeptide but cannot process further reaction steps. Murai N, et al. **J Biol Chem** 1996 Nov 8;271(45):28229–34
Conformational changes in the GroEL oligomer during the functional cycle. Llorca O, et al. **J Struct Biol** 1997 Feb; 118(1):31–42
Interplay of structure and disorder in cochaperonin mobile loops. Landry SJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11622–7

GROES PROTEIN

The effect of macromolecular crowding on chaperonin-mediated protein folding. Martin J, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1107-12

Catalysis of protein folding by symmetric chaperone complexes. Sparrer H, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1096-100

Evidence for a lipochaperonin: association of active protein-folding GroESL oligomers with lipids can stabilize membranes under heat shock conditions. Török Z, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2192-7

The lid that shapes the pot: structure and function of the chaperonin GroES. Saibil H. **Structure** 1996 Jan 15;4(1):1-4 (22 ref.)

PHYSIOLOGY

Evidence for GroES acting as a transcriptional regulator. Legname G, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):412-8

Assembly of membrane-containing bacteriophage PRD1 is dependent on GroEL and GroES. Hänninen AL, et al. **Virology** 1997 Jan 6;227(1):207-10

ULTRASTRUCTURE

Chaperonins GroEL and GroES: views from atomic force microscopy. Mou J, et al. **Biophys J** 1996 Oct;71(4):2213-21

Symmetric GroEL-GroES complexes can contain substrate simultaneously in both GroEL rings. Llorca O, et al. **FEBS Lett** 1997 Mar 24;405(2):195-9

GROIN

Obturator nerve entrapment. A cause of groin pain in athletes. Bradshaw C, et al. **Am J Sports Med** 1997 May-Jun;25(3):402-8

Management of groin pain in athletes. Fricker PA. **Br J Sports Med** 1997 Jun;31(2):97-101 (22 ref.)

Obturator nerve entrapment. Bradshaw C, et al. **Clin J Sport Med** 1997 Jul;7(3):217-9

The value of the inlet view of the pelvis in the evaluation of groin pain of unclear etiology. Carlson DA, et al. **Orthopedics** 1996 Feb;19(2):170-2

Diagnostic obturator nerve block for inguinal and back pain: a recovered opinion. Hong Y, et al. **Pain** 1996 Oct; 67(2-3):507-9

Paget's disease of the groin: report of seven cases. Yugueros P, et al. **Plast Reconstr Surg** 1997 Aug;100(2):336-9

BLOOD SUPPLY

[Obturator bypass--a method of extra-anatomic reconstruction in the region of the femoral trigone] Marušiak J, et al. **Rozhl Chir** 1997 Feb;76(2):56-8 (Eng. Abstr.) **(Cze)**

INJURIES

Contralateral rectus abdominis muscle flap coverage for the management of a complicated groin defect [letter] Aygit AC, et al. **Ann Plast Surg** 1997 Mar;38(3):307-8

Laparoscopic and conventional repair of groin disruption in sportsmen [letter] Foster ME, et al. **Br J Surg** 1997 Aug; 84(8):1171-2

Laparoscopic and conventional repair of groin disruption in sportsmen. Ingoldby CJ. **Br J Surg** 1997 Feb;84(2):213-5

Laparoscopic and conventional repair of groin disruption in sportsmen [letter] Nagy J, et al. **Br J Surg** 1997 Aug; 84(8):1172

INNERVATION

Outcome of the operative management of nerve injuries in the ilioinguinal region. Nahabedian MY, et al. **J Am Coll Surg** 1997 Mar;184(3):265-8

Neural connection between the ventral portion of the lumbar intervertebral disc and the groin skin. Takahashi Y, et al. **J Neurosurg** 1996 Aug;85(2):323-8

[Damage to the inguino-femoral nerves in the treatment of hernias. An anatomical hazard of traditional and laparoscopic techniques] Chevallier JM, et al. **Ann Chir** 1996;50(9):767-75 (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

The value of herniography in the diagnosis of unexplained groin pain. Mäkelä JT, et al. **Ann Chir Gynaecol** 1996; 85(4):300-4

SURGERY

Use of seven-flap plasty for the treatment of axillary and groin postburn contractures. Karacaoğlan N, et al. **Burns** 1996 Feb;22(1):69-72

Groin lymphorrhea postoperative nuisance. al-Salman MM, et al. **Int Surg** 1997 Jan-Mar;82(1):60-2

Lower extremity salvage after radical resection of malignant tumors in the groin and lower abdominal wall. Reece GP, et al. **J Am Coll Surg** 1997 Sep;185(3):260-7

[Inguinal lymphadenectomy in malignant anal tumors] Timofeev IuM. **Vopr Onkol** 1997;43(3):327-9 (Eng. Abstr.) **(Rus)**

GROMMET INSERTION see **MIDDLE EAR VENTILATION**

GRONBLAD-STRANDBERG SYNDROME see **PSEUDOXANTHOMA ELASTICUM**

GROOMING

The importance of a well-groomed child [comment] Sapolsky RM. **Science** 1997 Sep 12;277(5332):1620-1. Comment on: Science 1997 Sep 12;277(5332):1659-62.

DRUG EFFECTS

Distinct grooming patterns induced by intracerebroventricular injection of CRH, TRH and LHRH in male rats. Gargiulo PA, et al. **Braz J Med Biol Res** 1996 Mar;29(3):375-9

Thyrotropin releasing hormone injected into the nucleus accumbens septi selectively increases face grooming in rats. Gargiulo PA. **Braz J Med Biol Res** 1996 Jun;29(6):805-10

Theophylline-induced grooming: possible indirect dopaminergic mechanism. Zarrindast MR, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):1-4

Effect of long-term administration of stobadine to rats on selective variables of spontaneous behaviour of their offspring. Dubovický M, et al. **Gen Physiol Biophys** 1996 Apr;15(2):181-6

BW 723C86, a 5-HT2B receptor agonist, causes hyperphagia and reduced grooming in rats. Kennett GA, et al. **Neuropharmacology** 1997 Feb;36(2):233-9

Melanin-concentrating hormone (MCH) antagonizes the effects of alpha-MSH and neuropeptide E-I on grooming and locomotor activities in the rat. Sanchez M, et al. **Peptides** 1997;18(3):393-6

Conditioned grooming induced by the dopamine D1-like receptor agonist SKF 38393 in rats. Page SJ, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):829-33

Conserved and sexually dimorphic behavioral responses to biogenic amines in decapitated Drosophila. Yellman C, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4131-6

PHYSIOLOGY

Gender-related factors affecting primate social behavior: grooming, rank, age, and kinship in heterosexual and all-male groups of stumptail macaques. Butovskaya ML, et al. **Am J Phys Anthropol** 1996 Sep;101(1):39-54

Local control of leg movements and motor patterns during grooming in locusts. Berkowitz A, et al. **J Neurosci** 1996 Dec 15;16(24):8067-78

Central generation of grooming motor patterns and interlimb coordination in locusts. Berkowitz A, et al. **J Neurosci** 1996 Dec 15;16(24):8079-91

The involvement of nitric oxide (NO) in the CGRP-induced behavior of rats. Kovács A, et al. **Peptides** 1996; 17(7):1183-7

Chronic tryptophan restriction disrupts grooming chain completion in the rat. del Angel-Meza AR, et al. **Physiol Behav** 1996 Jun;59(6):1099-102

Grooming secretions and seasonal adaptations in the blind mole rat (Spalax ehrenbergi). Shanas U, et al. **Physiol Behav** 1996 Aug;60(2):653-6

Receiving grooming as a reinforcer for the monkey. Taira K, et al. **Physiol Behav** 1996 Jun;59(6):1189-92

The stress of not being able to perform dustbathing in laying hens. Vestergaard KS, et al. **Physiol Behav** 1997 Aug; 62(2):413-9

GROSS VIRUS

IMMUNOLOGY

A shift in the requirement for CD4+ T cells in the generation of AKR/Gross MuLV-specific CTL in AKR.H-2b:Fv-1b mice occurs prior to the onset of age-dependent CTL nonresponsiveness. Smith PM, et al. **Cell Immunol** 1997 Feb 1;175(2):189-98

GROUNDNUTS see **PEANUTS**

GROUNDSEL see **SENECIO**

GROUP HEALTH INSURANCE see **INSURANCE, HEALTH**

GROUP HEALTH ORGANIZATIONS, PREPAID see **HEALTH MAINTENANCE ORGANIZATIONS**

GROUP HOMES

Characteristics of the demented living in different settings in Sweden. Sandman PO, et al. **Acta Neurol Scand Suppl** 1996;168:96-100

How should a group living unit for demented elderly be designed to decrease psychiatric symptoms? Elmståhl S, et al. **Alzheimer Dis Assoc Disord** 1997 Mar;11(1):47-52

Better health for children in resident care. Polnay L, et al. **Arch Dis Child** 1996 Sep;75(3):263-5 (13 ref.)

Does community residence mean more community contact for people with severe, long-term psychiatric disabilities? Dilks SL, et al. **Br J Clin Psychol** 1996 May;35 (Pt 2):183-92

Neighbors' perceptions of group homes. Cook JR. **Community Ment Health J** 1997 Aug;33(4):287-99

Group-living care: an alternative for the demented elderly. Annerstedt L. **Dement Geriatr Cogn Disord** 1997 Mar-Apr; 8(2):136-42

Levels of engagement in hospital and community-based homes for people with learning disabilities: can individual characteristics account for differences? Dagnan D. **Int J Rehabil Res** 1996 Dec;19(4):313-9

From Leros asylum to community-based facilities: levels of functioning and quality of life among hostel residents in Greece. Zissi A, et al. **Int J Soc Psychiatry** 1997 Summer; 43(2):104-15

Homelessness and substance use among alcohol abusers following participation in project H&ART. Lapham SC, et al. **J Addict Dis** 1995;14(4):41-55

Predictive validity of the suicide probability scale among adolescents in group home treatment. Larzelere RE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Feb; 35(2):166-72; discussion 172-4

Clinical advocacy for persons with epilepsy and mental retardation living in community-based programs. Baribeault JJ. **J Neurosci Nurs** 1996 Dec;28(6):359-60, 366-72

Community living-unit size, staff presence, and residents' choice-making. Stancliffe RJ. **Ment Retard** 1997 Feb; 35(1):1-9

Use of mental health services by formerly homeless adults residing in group and independent housing. Dickey B, et al. **Psychiatr Serv** 1996 Feb;47(2):152-8

The changing role of the psychiatrist in board-and-care homes. Fleishman M. **Psychiatr Serv** 1997 Apr;48(4):510-3

Picture activity schedules and engagement of adults with mental retardation in a group home. Anderson MD, et al. **Res Dev Disabil** 1997 Jul-Aug;18(4):231-50

[Group homes for the mentally ill II. Resident satisfaction and experience of support] Middelboe T, et al. **Ugeskr Laeger** 1997 May 5;159(19):2851-5 (Eng. Abstr.) **(Dan)**

[Group homes for the mentally ill I. A description of access and residents] Middelboe T, et al. **Ugeskr Laeger** 1997 May 5;159(19):2846-50 (Eng. Abstr.) **(Dan)**

ECONOMICS

Housing costs for adults who are mentally ill and formerly homeless. Dickey B, et al. **J Ment Health Adm** 1997 Summer;24(3):291-305

LEGISLATION & JURISPRUDENCE

Criminality of the mentally ill in sheltered care: are they more dangerous? Hwang SD, et al. **Int J Law Psychiatry** 1996 Winter;19(1):93-105

ORGANIZATION & ADMINISTRATION

Trends in siting strategies. Zippay A. **Community Ment Health J** 1997 Aug;33(4):301-10

STANDARDS

Team for the Assessment of Psychiatric Services (TAPS) Project 33: prospective follow-up study of long-stay patients discharged from two psychiatric hospitals. Leff J, et al. **Am J Psychiatry** 1996 Oct;153(10):1318-24

UTILIZATION

An exploratory study of male recovering substance abusers living in a self-help, self-governed setting. Jason LA, et al. **J Ment Health Adm** 1997 Summer;24(3):332-9

GROUP HOSPITALIZATION see **INSURANCE, HOSPITALIZATION**

GROUP IDENTIFICATION see **SOCIAL IDENTIFICATION**

GROUP PRACTICE

The shift toward a managed care environment in a multispecialty group practice model. Looking for reciprocal benefits. Thirlby RC, et al. **Arch Surg** 1996 Oct; 131(10):1027-31

The doctor's dilemma. Sachs FL. **Conn Med** 1996 Apr; 60(4):227-9

Physician integration revisited: organizational design and development under managed care. Decision-making in group practices. Bennett T, et al. **Mo Med** 1996 Apr; 93(4):170-6

Licensing, practice, and malpractice in occupational medicine. Rischitelli DG. **Occup Med** 1996 Jan-Mar; 11(1):121-35 (51 ref.)

ChoiceCare physicians: reaching out with value-added service. Marrone S. **Pa Med** 1996 Sep;99(9):32-4

ECONOMICS

Finance ... digging a new well [news] **Hosp Health Netw** 1996 Oct 5;70(19):16

1996 survey of housing estate practice costs and GP fees in Singapore. Singh K, et al. **Singapore Med J** 1997 May; 38(5):192-9

HISTORY

Origins of the name "Mayo Clinic". Nelson CW. **Mayo Clin Proc** 1997 Apr;72(4):296

ORGANIZATION & ADMINISTRATION

A review of clinical prevention services at group health cooperative of Puget Sound. Thompson RS, et al. **Am J Prev Med** 1995 Nov–Dec;11(6):409–16

Taiwan's medical care [letter] Borins M. **Can Fam Physician** 1997 Sep;43:1501, 1503, 1505–6

Dilemma of rural obstetrics. One community's solution. Osmun WE, et al. **Can Fam Physician** 1997 Jun;43:1115–9

Toronto centre hopes to cash in on growing demand for private health services. Johnston C. **Can Med Assoc J** 1997 Feb 15;156(4):557–9

Integration ... hospitals may be losing their appetite for physician practices, but integrated delivery systems are still hungry for them [news] **Hosp Health Netw** 1996 Nov 20; 70(22):14

Partnering. In this deal, three's a company. Hudson T. **Hosp Health Netw** 1997 Jul 20;71(14):64

Ask the right questions if you plan to go from solo to group. Toth CL. **Hosp Pract (Off Ed)** 1997 Jul 15;32(7):148–52

The evolution of physician–directed managed care. Unland JJ. **J Health Care Finance** 1995 Winter;22(2):42–56

Medical group practice formation. Unland JJ. **J Health Care Finance** 1996 Winter;23(2):57–82

Creating a group practice? Strategic planning can prevent future problems. **Mich Med** 1996 Nov;95(11):26–8

The Management Service Organization (MSO). A vehicle for physician integration. Bennett T, et al. **Mo Med** 1996 Sep;93(9):590–4

The explosive growth of Management Services Organizations (MSOs): what does it mean? What does it portend for the future? Reece RL. **Mo Med** 1996 Sep;93(9):586–9

Group practice formation: the path to success. Hochron SM. **N J Med** 1997 Apr;94(4):58–60

Creating a new group practice: prescription for success. Hochron SM. **N J Med** 1997 Mar;94(3):47–9

Memorial Health Systems Primary Care Network: pulling it all together. Marrone S. **Pa Med** 1997 Mar;100(3):26–7

STANDARDS

NCQA external reporting and monitoring activities for health plans: preventive services programs. Corrigan JM, et al. **Am J Prev Med** 1995 Nov–Dec;11(6):393–6

Quality infrastructure: the key to implementing a total quality program in a clinical care setting. Lowery D. **J Soc Health Syst** 1996;5(2):51–64

Using clinical and functional data for quality improvement in outcomes measurement consortia. Kania C, et al. **Jt Comm J Qual Improv** 1996 Jul;22(7):492–504

Significant event auditing. A study of the feasibility and potential of case–based auditing in primary medical care. Pringle M, et al. **Occas Pap R Coll Gen Pract** 1995 Mar; (70):i–viii, 1–71

STATISTICS & NUMERICAL DATA

Leadership ... medical group pay goes up, up and away [news] **Hosp Health Netw** 1996 Nov 5;70(21):14

TRENDS

Physicians ... more U.S. doctors are moving into medical groups [news] **Hosp Health Netw** 1996 Sep 20;70(18):13

Business strategy. Hekman KM. **Mich Med** 1996 Feb; 95(2):18–9

UTILIZATION

The simultaneous analysis of patient, physician and group practice influences on annual mammography performance. Brown RL, et al. **Soc Sci Med** 1996 Aug;43(3):315–24

GROUP PRACTICE, PREPAID

ECONOMICS

Accounting. Is your back–office a backwater? Montague J. **Hosp Health Netw** 1996 Dec 5;70(23):72

STANDARDS

Primary care physicians' satisfaction with quality of care in California capitated medical groups. Kerr EA, et al. **JAMA** 1997 Jul 23–30;278(4):308–12

GROUP PROCESSES

see related
SOCIAL CHANGE

The concept of identification in group psychotherapy. Scheidlinger S. **Am J Psychother** 1996 Fall;50(4):529–39; discussion 540–1

Development of a tool to measure therapeutic factors in group process. Hastings–Vertino K, et al. **Arch Psychiatr Nurs** 1996 Aug;10(4):221–8

Nursing students' use of collaborative computer technology to create family and community assessment instruments. Krothe JS, et al. **Comput Nurs** 1996 Mar–Apr;14(2):101–7

Age and sex differences in dyadic and group interaction. Benenson JF, et al. **Dev Psychol** 1997 May;33(3):538–43

Adolescent–parent attachments and family problem–solving styles. Cobb CL. **Fam Process** 1996 Mar;35(1):57–82

Nonverbal interactional behavior in the families of persons with schizophrenic and bipolar disorders. Simoneau TL, et al. **Fam Process** 1996 Mar;35(1):83–102

Application of group process model to performance appraisal development in a CQI environment. LaPenta C, et al. **Health Care Manage Rev** 1996 Fall;21(4):45–60

An integrated large– and small–group approach for conducting meetings that lead to social action. Peck HB. **Int J Group Psychother** 1997 Jan;47(1):91–108

Group dynamics and group psychotherapy revisited: four decades later. Scheidlinger S. **Int J Group Psychother** 1997 Apr;47(2):141–59; discussion 161–81

The supervisor as gender analyst: feminist perspectives on group supervision and training. Schoenholtz–Read J. **Int J Group Psychother** 1996 Oct;46(4):479–500 (33 ref.)

Group dynamics in forensic pretrial decision–making. Pitt SE, et al. **J Am Acad Psychiatry Law** 1997;25(1):95–104

Dietetics and foodservice personnel are ready for team problem solving. Wolf KN, et al. **J Am Diet Assoc** 1997 Sep;97(9):997–1002

Antecedents of the people and organizational aspects of medical informatics: review of the literature. Lorenzi NM, et al. **J Am Med Inform Assoc** 1997 Mar–Apr;4(2):79–93 (156 ref.)

Planning a staff meeting. Palazzolo C, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1246–9

Conducting a staff meeting. Palazzolo C, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1558–61

Effects of group– versus home–based exercise in the treatment of obesity. Perri MG, et al. **J Consult Clin Psychol** 1997 Apr;65(2):278–85

Using collaborative learning in dental education. Kleffner JH, et al. **J Dent Educ** 1997 Jan;61(1):66–72

A comparison of group and individual remembering: does collaboration disrupt retrieval strategies? Basden BH, et al. **J Exp Psychol Learn Mem Cogn** 1997 Sep;23(5):1176–91

Collective memory: collaborative and individual processes in remembering. Weldon MS, et al. **J Exp Psychol Learn Mem Cogn** 1997 Sep;23(5):1160–75

Nurse relationships and work group disruption. Leppa CJ. **J Nurs Adm** 1996 Oct;26(10):23–7

Treating work stress: an alternative to workers' compensation. Lehmer M, et al. **J Occup Environ Med** 1997 Jan;39(1):63–7

Escalation in response to persistent annoyance: groups versus individuals and gender effects. Mikolic JM, et al. **J Pers Soc Psychol** 1997 Jan;72(1):151–63

Memory for and experience of differential competitive behavior of individuals and groups. Pemberton MB, et al. **J Pers Soc Psychol** 1996 Nov;71(5):953–66

Evolutionary psychiatry [letter] Baschetti R. **J R Soc Med** 1997 Jun;90(6):358–9

Evolutionary psychiatry [letter] Price JS. **J R Soc Med** 1997 Aug;90(8):469

Uncertainty considerations in group decisions: staffing and ratesetting in a health promotion center. Hatcher ME. **J Soc Health Syst** 1997;5(3):31–42

Improving health care, Part 4: Concepts for improving any clinical process. Batalden PB, et al. **Jt Comm J Qual Improv** 1996 Oct;22(10):651–9

The emerging conceptualization of groups as information processors. Hinsz VB, et al. **Psychol Bull** 1997 Jan; 121(1):43–64 (285 ref.)

Human groups as units of selection. Wilson DS. **Science** 1997 Jun 20;276(5320):1816–7

Girls, pecking order and smoking. Michell L, et al. **Soc Sci Med** 1997 Jun;44(12):1861–9

Life stories and shared experience. Steffen V. **Soc Sci Med** 1997 Jul;45(1):99–111

Teaching trends and issues in women's health using a feminist perspective. Valentine PE. **Womens Health Issues** 1997 Mar–Apr;7(2):84–7

[Qualitative methods in empirical health research. Focused group interview and participant observation] Maunsbach M, et al. **Nord Med** 1997 Apr;112(4):126–8 (15 ref.) **(Dan)**

[Group images of adolescence––experiences with adolescent phenomena from the group analytic viewpoint] Rudnitzki G. **Prax Kinderpsychol Kinderpsychiatr** 1996 Dec; 45(10):362–70 (Eng. Abstr.) **(Ger)**

[Models of homeostatic methods in the study of group activities of operators] Popechitelev EP. **Med Tekh** 1996 Jul–Aug;(4):13–9 (Eng. Abstr.) **(Rus)**

[The clinical session as a function of group dynamics] Ordóñez Gallego A, et al. **Med Clin (Barc)** 1996 Nov 9; 107(16):620–2 **(Spa)**

GROUP PURCHASING

see related
PURCHASING, HOSPITAL

The future of locality commissioning [editorialL comment] Mays N. **BMJ** 1997 Apr 26;314(7089):1212–3. Comment on: BMJ 1997 Apr 26;314(7089):1246–50.

Purchasing. Strength in numbers [news] **Hosp Health Netw** 1997 May 20;71(10):14

Income, health status, and insurance coverage of small group employees in a voluntary purchasing arrangement. Christianson JB, et al. **J Health Care Poor Underserved** 1996 May;7(2):122–39

[IBM, money, calcium antagonists and bias (letter)] Hernborg A. **Lakartidningen** 1996 Nov 13;93(46):4136 **(Swe)**

ECONOMICS

Monitoring purchaser expenditure patterns. Wilson RC, et al. **IMA J Math Appl Med Biol** 1995 Sep–Dec; 12(3–4):211–23

Countervailing agency: a strategy of principaled regulation under managed competition. Schlesinger M. **Milbank Q** 1997;75(1):35–87 (138 ref.)

GROUP-SPECIFIC COMPONENT see VITAMIN D-BINDING PROTEIN

GROUP STRUCTURE

What a maleless group can tell us about the constraints on female transfer in Thomas's langurs (Presbytis thomasi). Steenbeek R. **Folia Primatol (Basel)** 1996;67(4):169–81

An integrated large– and small–group approach for conducting meetings that lead to social action. Peck HB. **Int J Group Psychother** 1997 Jan;47(1):91–108

Ratings of interpersonal conduct in small groups by aggregated peers and self: replicated factor analyses. Hurley JR. **J Soc Psychol** 1996 Oct;136(5):597–611

Absence due to illness among toddlers in day–care centres in relation to child group structure. Sennerstam RB. **Public Health** 1997 Mar;111(2):85–8

[Group stability and open setting in psychiatric therapy groups] Schröder A, et al. **Psychiatr Prax** 1997 Mar; 24(2):77–8 (Eng. Abstr.) **(Ger)**

[Bilateral dependency and the minimal group paradigm] Jin N, et al. **Shinrigaku Kenkyu** 1996 Jun;67(2):77–85 (Eng. Abstr.) **(Jpn)**

GROUP THERAPY see PSYCHOTHERAPY, GROUP

GROWTH

see related
CHILD DEVELOPMENT
PERSONALITY DEVELOPMENT

Growth velocity among preschool Ethiopian children. Alemu T, et al. **Acta Paediatr** 1996 May;85(5):616–9

Growth and pubertal development in Down syndrome. Arnell H, et al. **Acta Paediatr** 1996 Sep;85(9):1102–6

Self–assessment of sexual maturity by mid–adolescents based on a global question. Berg–Kelly K, et al. **Acta Paediatr** 1997 Jan;86(1):10–7

Shortened and diminished pubertal growth in boys and girls treated for acute lymphoblastic leukaemia. Groot–Loonen JJ, et al. **Acta Paediatr** 1996 Sep;85(9):1091–5

Spontaneous growth in Chinese patients with Turner's syndrome and influence of karyotype. Low LC, et al. **Acta Paediatr** 1997 Jan;86(1):18–21

Retrospective longitudinal growth study of boys and girls active in sport. Malina RM, et al. **Acta Paediatr** 1996 May; 85(5):570–6

Relationships between wasting and linear growth in stunted children. Walker SP, et al. **Acta Paediatr** 1996 Jun; 85(6):666–9

Nutrition and growth during infancy. The Copenhagen Cohort Study. Michaelsen KF. **Acta Paediatr Suppl** 1997 May;420:1–36

Growth and subcutaneous fat during the first five years of insulin–dependent diabetes in children. Tuvemo T, et al. **Acta Paediatr Suppl** 1997 Feb;418:1–5

Anthropometric reference data for international use: recommendations from a World Health Organization Expert Committee. de Onis M, et al. **Am J Clin Nutr** 1996 Oct;64(4):650–8

Effect of early, short–term supplementation on weight and linear growth of 4–7–mo–old infants in developing countries: a four–country randomized trial. Simondon KB, et al. **Am J Clin Nutr** 1996 Oct;64(4):537–45

Growth rates in pediatric dialysis patients and renal transplant recipients. Turenne MN, et al. **Am J Kidney Dis** 1997 Aug; 30(2):193–203

Growth, development, and sexual dimorphism in vervet monkeys (Cercopithecus aethiops) at four sites in Kenya. Turner TR, et al. **Am J Phys Anthropol** 1997 May; 103(1):19–35 (53 ref.)

A study of maximum bite force during growth and development. Braun S, et al. **Angle Orthod** 1996;66(4):261–4

Standard RUS skeletal maturation of Tokyo children. Ashizawa K, et al. **Ann Hum Biol** 1996 Nov–Dec; 23(6):457–69

A cross–sectional growth study of trunk and limb segments of the Bengali boys of Calcutta. Dasgupta P, et al. **Ann Hum Biol** 1997 Jul–Aug;24(4):363–9

Early growth faltering of rural Mesoamerindian breast–fed infants. Hernandez–Beltran M, et al. **Ann Hum Biol** 1996 May–Jun;23(3):223–35

Socioeconomic factors and growth during childhood and early adolescence in Jena children. Kromeyer K, et al. **Ann Hum Biol** 1997 Jul–Aug;24(4):343–53

The impact of caste on the growth of male Sikhs in Punjab, India. Singh LP, et al. **Ann Hum Biol** 1997 Mar–Apr; 24(2):131–9

Growth in infancy and bone mass in later life. Cooper C, et al. **Ann Rheum Dis** 1997 Jan;56(1):17–21

Growth faltering in Madura, Indonesia: a comparison with the NCHS reference and data from Kasongo, Zaire. Kolsteren PW. **Ann Trop Paediatr** 1996 Sep;16(3):233–42 (46 ref.)

Trends in growth in England and Scotland, 1972 to 1994. Hughes JM, et al. **Arch Dis Child** 1997 Mar;76(3):182–9

Spontaneous growth in idiopathic short stature. European Study Group. Rekers-Mombarg LT, et al. **Arch Dis Child** 1996 Sep;75(3):175–80

Maternal comprehension of two growth monitoring charts in Sri Lanka. Senanayake MP, et al. **Arch Dis Child** 1997 Apr;76(4):359–61

Model of normal prepubertal growth. Thalange NK, et al. **Arch Dis Child** 1996 Nov;75(5):427–31

Growth of Hmong children. Gjerdingen DK, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1295–8

Growth characteristics in laboratory animals fed zinc-deficient, copper-deficient, of histidine-supplemented diets. Van Wouwe JP, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):71–7

Two-stage method of estimation for general linear growth curve models. Stukel TA, et al. **Biometrics** 1997 Jun; 53(2):720–8

Dietary supplementation and rapid catch-up growth after acute diarrhoea in childhood. Hoare S, et al. **Br J Nutr** 1996 Oct;76(4):479–90

Non-insulin-dependent diabetes mellitus. Hales CN. **Br Med Bull** 1997 Jan;53(1):109–22 (38 ref.)

Effects of the intrauterine environment on childhood growth. Strauss RS. **Br Med Bull** 1997 Jan;53(1):81–95 (59 ref.)

Predicted response in food conversion ratio for growth by selection on the ratio or on linear component traits, in a (sequential) selection programme. Koerhuis AN, et al. **Br Poult Sci** 1996 May;37(2):317–27

Influence of temperature during growth on responses of hens to high or low temperatures during lay. Kyarisiima CC, et al. **Br Poult Sci** 1996 Jul;37(3):553–62

Effect of probiotic supplementation on growth, nitrogen utilisation and serum cholesterol in broilers. Mohan B, et al. **Br Poult Sci** 1996 May;37(2):395–401

The status of physical growth in Chinese children. Lin WS, et al. **Coll Antropol** 1997 Jun;21(1):101–8

The mysterious mechanism of growth. Slack JM. **Curr Biol** 1996 Apr 1;6(4):348 (7 ref.)

Infant nutrition: implication for somatic growth, adult onset diseases, and oral health. Sonis A, et al. **Curr Opin Pediatr** 1997 Jun;9(3):289–97 (53 ref.)

Pubertal growth, sexual maturation, and final height in children with IDDM. Effects of age at onset and metabolic control. Salerno M, et al. **Diabetes Care** 1997 May; 20(5):721–4

Determinants of growth in diabetic pubertal subjects. Zachrisson I, et al. **Diabetes Care** 1997 Aug;20(8):1261–5

Lifelong consequences of metabolic adaptations in utero? [comment] Eriksson UJ. **Diabetologia** 1996 Sep; 39(9):1123–5. Comment on: Diabetologia 1996 Sep;39(9):1119–22.

Physical growth of low birthweight infants in the first year of life: impact of maternal behaviors. DeWitt SJ, et al. **Early Hum Dev** 1997 Jan 3;47(1):19–34

Growth in weight, recumbent length, and head circumference for preterm low-birthweight infants during the first three years of life using gestation-adjusted ages. Guo SS, et al. **Early Hum Dev** 1997 Feb 20;47(3):305–25

Growth response to growth hormone therapy in patients with different degrees of growth hormone deficiency. Fujieda K, et al. **Endocr J** 1996 Oct;43 Suppl:S19–25

Spontaneous growth in growth hormone-treated short children. Tanaka T, et al. **Endocr J** 1996 Oct;43 Suppl:S135–6

The impact of vitamin A supplementation on physical growth of children is dependent on season. Bahl R, et al. **Eur J Clin Nutr** 1997 Jan;51(1):26–9

The impact of zinc supplementation on growth and body composition: a randomized, controlled trial among rural Zimbabwean schoolchildren. Friis H, et al. **Eur J Clin Nutr** 1997 Jan;51(1):38–45

Longitudinal observation of growth of Vietnamese children in Hanoi, Vietnam from birth to 10 years of age. Hop LT, et al. **Eur J Clin Nutr** 1997 Mar;51(3):164–71

A longitudinal study of the growth of matched pairs of vegetarian and omnivorous children, aged 7–11 years, in the north-west of England. Nathan I, et al. **Eur J Clin Nutr** 1997 Jan;51(1):20–5

Height and weight reference charts for children aged 2–18 years from Verona, Italy. Zoppi G, et al. **Eur J Clin Nutr** 1996 Jul;50(7):462–8

Mandibular growth during initial treatment with the Bass orthopaedic appliance in relation to age and growth periods. Omblus J, et al. **Eur J Orthod** 1997 Feb;19(1):47–56

Vertical facial growth and statural growth in girls: a longitudinal comparison. van der Beek MC, et al. **Eur J Orthod** 1996 Dec;18(6):549–55

Growth hormone therapy in Silver Russell syndrome: 5 years experience of the Australian and New Zealand Growth database (OZGROW). Rakover Y, et al. **Eur J Pediatr** 1996 Oct;155(10):851–7

Growth curves in untreated Ullrich-Turner syndrome: French reference standards 1–22 years. Sempé M, et al. **Eur J Pediatr** 1996 Oct;155(10):862–9

Anthropomorphic measurements of patients with myelomeningocele [letter; comment] Trollmann R, et al. **Eur J Pediatr** 1996 Oct;155(10):914–5. Comment on: Eur J Pediatr 1995 May;154(5):398–402.

Growth Standards, Bone Maturation and Idiopathic Short Stature. Proceedings of the 1st KIGS Expert Meeting. Positano, Italy, November 10–11, 1995. **Horm Res** 1996;45 Suppl 2:1–67 (0 ref.)

Main problems associated with bone age and maturity evaluation. Benso L, et al. **Horm Res** 1996;45 Suppl 2:42–8

Some questions about how growth standards are used. Cole TJ. **Horm Res** 1996;45 Suppl 2:18–23 (13 ref.)

Growth pattern during the first 36 months of life in congenital adrenal hyperplasia (21-hydroxylase deficiency). Gasparini N, et al. **Horm Res** 1997;47(1):17–22

Methodology for the establishment of growth standards. Gasser T, et al. **Horm Res** 1996;45 Suppl 2:2–7

Auxological standards in bone dysplasias. Hagenäs L. **Horm Res** 1996;45 Suppl 2:24–34 (53 ref.)

Secular changes in growth. Hauspie RC, et al. **Horm Res** 1996;45 Suppl 2:8–17 (70 ref.)

The timing of early postnatal catch-up growth in normal, full-term infants born short for gestational age. Karlberg JP, et al. **Horm Res** 1997;48 Suppl 1:17–24

Disease-specific standards in congenital syndromes. Ranke MB. **Horm Res** 1996;45 Suppl 2:35–41 (46 ref.)

Growth hormone treatment induces a dose-dependent catch-up growth in short children born small for gestational age: a summary of four clinical trials. Wilton P, et al. **Horm Res** 1997;48 Suppl 1:67–71

Percentile curves for body-mass index of Punjabi infants. Bhalla AK, et al. **Indian Pediatr** 1996 Jun;33(6):471–6

Growth and development and other risk factors for osteosarcoma in children and young adults. Gelberg KH, et al. **Int J Epidemiol** 1997 Apr;26(2):272–8

Relationships between soil-transmitted helminthiases and growth in urban slum schoolchildren in Ujung Pandang, Indonesia. Hadju V, et al. **Int J Food Sci Nutr** 1997 Mar; 48(2):85–93

The pattern of growth and obesity in Saudi Arabian male school children. al-Nuaim AR, et al. **Int J Obes Relat Metab Disord** 1996 Nov;20(11):1000–5

Rate of maturation during the teenage years: nutrient intake and physical activity between ages 12 and 22. Kemper HC, et al. **Int J Sport Nutr** 1997 Sep;7(3):229–40

Development and tracking in fitness components: Leuven longtudinal study on lifestyle, fitness and health. Beunen G, et al. **Int J Sports Med** 1997 Jul;18 Suppl 3:S171–8

The Amsterdam Growth and Health Longitudinal Study. The past (1976–1996) and future (1997–?). Kemper HC, et al. **Int J Sports Med** 1997 Jul;18 Suppl 3:S140–50

Prospective and retrospective longitudinal studies of the growth, maturation, and fitness of Polish youth active in sport. Malina RM, et al. **Int J Sports Med** 1997 Jul;18 Suppl 3:S179–85

Analysis of cohort effects in mixed longitudinal data sets. Prahl-Andersen B, et al. **Int J Sports Med** 1997 Jul;18 Suppl 3:S186–90

Limitations of growth charts derived from longitudinal studies: the Euro-Growth Study. van't Hof MA, et al. **Int J Sports Med** 1997 Jul;18 Suppl 3:S204–7

Growth patterns of first-generation Southeast Asian Americans from birth to 5 years of age. Hyslop AE, et al. **J Am Board Fam Pract** 1996 Sep-Oct;9(5):328–35

Growth of short children during and after discontinuation of growth hormone therapy. Zadik Z, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3668–70

Growth hormone-releasing hormone (GHRH)-GH-somatic growth and luteinizing hormone (LH)RH-LH-ovarian axes in adult female transgenic mice expressing human GH gene. Sasaki F, et al. **J Neuroendocrinol** 1997 Aug; 9(8):615–26

Some amino acids are indispensable for growth (Osborne and Mendel, 1914–1916). Carpenter KJ. **J Nutr** 1997 May;127(5 Suppl):1031S–1032S

Young rats need unknown growth factors (McCollum, 1913–1917). Day HG. **J Nutr** 1997 May;127(5 Suppl):1029S–1031S

A randomized intervention study of the effects of discontinuing coffee intake on growth and morbidity of iron-deficient Guatemalan toddlers. Dewey KG, et al. **J Nutr** 1997 Feb;127(2):306–13

Catch-up growth in children fed a macrobiotic diet in early childhood. Van Dusseldorp M, et al. **J Nutr** 1996 Dec; 126(12):2977–83

Early childhood supplementation does not benefit the long-term growth of stunted children in Jamaica. Walker SP, et al. **J Nutr** 1996 Dec;126(12):3017–24

Acceleration of retarded growth in children with Gaucher disease after treatment with alglucerase. Kaplan P, et al. **J Pediatr** 1996 Jul;129(1):149–53

Longitudinal, prospective analysis of dietary intake in children with cystic fibrosis. Kawchak DA, et al. **J Pediatr** 1996 Jul;129(1):119–29

Growth in diastrophic dysplasia. Mäkitie O, et al. **J Pediatr** 1997 Apr;130(4):641–6

Growth in children after bone marrow transplantation for acute myelogenous leukemia as compared to acute lymphocytic leukemia. Alter CA, et al. **J Pediatr Endocrinol Metab** 1996 Jan-Feb;9(1):51–7

Growth hormone secretion and effects of growth hormone therapy on growth velocity and weight gain in children with Prader-Willi syndrome. Angulo M, et al. **J Pediatr Endocrinol Metab** 1996 May-Jun;9(3):393–400

Effect of glycemic control on the growth velocity and several metabolic parameters of conventionally treated children with insulin dependent diabetes mellitus. Gunczler P, et al. **J Pediatr Endocrinol Metab** 1996 Nov-Dec;9(6):569–75

Human milk protein does not limit growth of breast-fed infants. Motil KJ, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):10–7

Psychosocial development and premorbid skeletal growth in Legg-Calvé-Perthes disease: a study of nineteen patients. Lahdes-Vasama TT, et al. **J Pediatr Orthop B** 1997 Apr; 6(2):133–7

The design of adaptive systems: optimal parameters for variation and selection in learning and development. Frank SA. **J Theor Biol** 1997 Jan 7;184(1):31–9

Effects of albendazole on growth of primary school children and the prevalence and intensity of soil-transmitted helminths in Sierra Leone [letter] Koroma MM, et al. **J Trop Pediatr** 1996 Dec;42(6):371–2

More growth-chart confusion [letter] Macfarlane SB. **Lancet** 1997 Jul 12;350(9071):150

Growth-monitoring teaching aid to improve mothers' understanding [letter] Sohal H, et al. **Lancet** 1997 Aug 23; 350(9077):562–3

Biological growth on a surface. Wang CY, et al. **Math Biosci** 1997 Jun;142(2):91–106

Growth and growth hormone secretion after treatment for childhood non-Hodgkin's lymphoma. Samuelsson BO, et al. **Med Pediatr Oncol** 1997 Jan;28(1):27–34

Neurobehavioral study of prenatal exposure to hyperthermia combined with irradiation in mice. Zhong DZ, et al. **Neurotoxicol Teratol** 1996 Nov-Dec;18(6):703–9

Body mass index at different ages and its association with height at age 14 and with the whole growing process. Amador M, et al. **Nutrition** 1996 Jun;12(6):416–22

The relationship of birthweight with height at 14 and with the growing process. Bacallao J, et al. **Nutrition** 1996 Apr; 12(4):250–4

How much energy consumed and spent for optimal growth and development? [editorial] Pařízková J. **Nutrition** 1996 Nov-Dec;12(11–12):820–2

Growth of human immunodeficiency type 1-infected and uninfected children: a prospective cohort study in Kigali, Rwanda, 1988 to 1993. Lepage P, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):479–85

Effects of early parenting on growth and development in a small primate. Johnson EO, et al. **Pediatr Res** 1996 Jun; 39(6):999–1005

Growth until 3 years of age in a prospective, randomized trial of a diet with reduced saturated fat and cholesterol. Niinikoski H, et al. **Pediatrics** 1997 May;99(5):687–94

The effect of nutrient intake during rearing of broiler breeder females on subsequent fertility. Walsh TJ, et al. **Poult Sci** 1997 Feb;76(2):297–305

Immunological manipulation of growth. Pell JM. **Proc Nutr Soc** 1997 Jul;56(2):621–30 (39 ref.)

Auxological evaluation of children with cow's milk protein intolerance treated an elimination diet. Piotrowska-Jastrzębska J, et al. **Rocz Akad Med Bialymst** 1995;40(3):573–9

Growth, feeding practices and infections in black infants [letter] Cameron N. **S Afr Med J** 1997 Aug;87(8):1024–5

Growth monitoring—is it a task worth doing in South Africa? Chopra M, et al. **S Afr Med J** 1997 Jul;87(7):875–8

Growth, feeding practices and infections in black infants. Delport SD, et al. **S Afr Med J** 1997 Jan;87(1):57–61

Urinary immunoreactive deoxypyridinoline in children and adolescents: variations with age, sex and growth velocity. Rauch F, et al. **Scand J Clin Lab Invest** 1996 Dec; 56(8):715–9

Effects of body size, body density, gender and growth on underwater torque. Zamparo P, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):273–80

Normal linear growth in hypophosphataemic bone disease. Mactier H, et al. **Scott Med J** 1996 Oct;41(5):150–1

Long-term survival and nutritional data in patients with cystic fibrosis treated in a Danish centre. Nir M, et al. **Thorax** 1996 Oct;51(10):1023–7

Growth and height in children after liver transplantation. Jara P, et al. **Transpl Int** 1996;9 Suppl 1:S160–3

Analysis of growth in children after orthotopic liver transplantation. Peeters PM, et al. **Transpl Int** 1996; 9(6):581–8

Mechanisms and treatment of growth retardation in children with liver transplants. Sarna S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):447–8

[Maturation and fertility in women with low birthweights] Beránková H. **Cas Lek Cesk** 1997 Jun 26;136(13):413–5 (Eng. Abstr.) **(Cze)**

[Maturational quality, adaptation reactions and clinical-chemical blood values in automatically milk-fed bred milk calves] Steinhardt M, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Jan;104(1):3–8 (Eng. Abstr.) **(Ger)**

[Atopic manifestations, growth and nutritional data in newborns at high risk for allergy fed serum protein hydrolysate: 2-year follow-up] Laforgia N, et al. **Pediatr Med Chir** 1996 Sep-Oct;18(5):477–80 (Eng. Abstr.) **(Ita)**

[The physical development, health status and "school maturity" of 6-year-old children (based on data from Shatura, Moscow Province)] Kuchma VR, et al. **Gig Sanit** 1996 May-Jun;(3):27–9 (Eng. Abstr.) **(Rus)**

[The dynamic physical development of schoolchildren in Nizhni Novgorod] Matveeva NA, et al. **Gig Sanit** 1997 Mar-Apr;(2):26–8 (Eng. Abstr.) **(Rus)**

[Growth and puberty in children after treatment of acute lymphoblastic leukemia] Mišíková Z, et al. **Cas Lek Cesk** 1997 Jan 22;136(2):54–6 (Eng. Abstr.) **(Slo)**

[New reference values for child development. Body height has increased 1–2 cm, body weight 1–2 kg] Lindgren G, et al. **Lakartidningen** 1997 Aug 27;94(35):2915–8 **(Swe)**

DRUG EFFECTS

Variable effect of growth hormone on growth and final adult height in Scottish patients with Turner's syndrome. Chu CE, et al. **Acta Paediatr** 1997 Feb;86(2):160–4

Growth of asthmatic children is slower during than before treatment with inhaled glucocorticoids. Saha MT, et al. **Acta Paediatr** 1997 Feb;86(2):138–42

Zinc supplementation reduced morbidity, but neither zinc nor iron supplementation affected growth or body composition of Mexican preschoolers [see comments] Rosado JL, et al. **Am J Clin Nutr** 1997 Jan;65(1):13–9. Comment in: Am J Clin Nutr 1997 Jan;65(1):160–1.

The effect of vitamin A supplementation on the growth of preschool children in the Sudan. Fawzi WW, et al. **Am J Public Health** 1997 Aug;87(8):1359–62

Effects of selenium and vitamin E administration during a late stage of pregnancy on colostrum and milk production in dairy cows, and on passive immunity and growth of their offspring. Lacetera N, et al. **Am J Vet Res** 1996 Dec; 57(12):1776–80

Effects of arsenic (V)–chromium (III) interaction on plasma glucose and cholesterol levels in growing rats. Aguilar MV, et al. **Ann Nutr Metab** 1997;41(3):189–95

The effects of chemotherapy on the long–term survivors of malignancy. Davies HA, et al. **Br J Hosp Med** 1997 Mar 5–18;57(5):215–8 (36 ref.)

The effect of phytohaemagglutinin at different dietary concentrations on the growth, body composition and plasma insulin of the rat. Bardocz S, et al. **Br J Nutr** 1996 Oct;76(4):613–26

Interactions between dietary selenium, copper and sodium nitroprusside, a source of cyanide in growing chicks and laying hens. Davis RH, et al. **Br Poult Sci** 1996 Mar; 37(1):87–94

Growth rate reduction of goldfish (Carassius auratus) exposed to p,p'DDT and chlorobenzenes in diets with differing lipid contents. Sharifi M, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):665–70

Bioaccumulation and lack of toxicity of octachlorodibenzofuran (OCDF) and octachlorodibenzo–p–dioxin (OCDD) to early–life stages of zebra fish (Brachydanio rerio). Berends AG, et al. **Chemosphere** 1997 Aug;35(4):853–65

Missing effects of background dioxin exposure on development of breast–fed infants during the first half year of life. Pluim HJ, et al. **Chemosphere** 1996 Oct; 33(7):1307–15

Growth response and levels of growth factors after two years growth hormone treatment are similar for a once and twice daily injection regimen in girls with Turner syndrome. (Dutch Working Group on Growth Hormone). van Teunenbroek A, et al. **Clin Endocrinol (Oxf)** 1997 Apr; 46(4):451–9

The influence of estrogen on growth. Lee PA, et al. **Curr Opin Pediatr** 1997 Aug;9(4):431–6 (22 ref.)

Late effects of antineoplastic therapy in childhood on growth and endocrine function. Wallace WH, et al. **Drug Saf** 1996 Nov;15(5):325–32 (35 ref.)

Effects of the water–soluble fraction of partially combusted crude oil from Kuwait's oil fires (from Desert Storm) on survival and growth of the marine fish Menidia beryllina. Al–Yakoob SN, et al. **Ecotoxicol Environ Saf** 1996 Nov; 35(2):142–9

Effects of constant infusion with insulin–like growth factor–I (IGF–I) to immature female rats on body weight gain, tissue growth and sexual function. Evidence that such treatment does not affect sexual maturation of fertility. Gruaz NM, et al. **Endocrine** 1997 Feb;6(1):11–9

The effects of irradiation and chemotherapy on growth. Moshang T Jr, et al. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):731–41 (49 ref.)

Effect of thyroid hormone on growth. Lessons from the syndrome of resistance to thyroid hormone. Weiss RE, et al. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):719–30 (44 ref.)

Dietary vitamin A intake in relation to child growth. Fawzi WW, et al. **Epidemiology** 1997 Jul;8(4):402–7

Final height outcome in girls with Turner syndrome treated with a combination of low dose oestrogen and oxandrolone. Bareille P, et al. **Eur J Pediatr** 1997 May;156(5):358–62

Long–, intermediate– and short–term growth studies in asthmatic children treated with inhaled glucocorticosteroids. Wolthers OD. **Eur Respir J** 1996 Apr; 9(4):821–7 (78 ref.)

Effect of acid or aluminum on growth and adrenal function in young chickens. Capdevielle MC, et al. **Gen Comp Endocrinol** 1996 Jul;103(1):54–9

Effects of polychlorinated biphenyl mixtures and three specific congeners on growth and circulating growth–related hormones. Gould JC, et al. **Gen Comp Endocrinol** 1997 May;106(2):221–30

Effects of exposure to polychlorinated biphenyl (PCB) from conception on growth, and development of endocrine, neurochemical, and cognitive measures in 60 day old rats. Corey DA, et al. **Growth Dev Aging** 1996 Autumn–Winter; 60(3–4):131–43

Growth–promoting effects of ovine placental lactogen (oPL) in young lambs: comparison with bovine growth hormone provides evidence for a distinct effect of oPL on food intake. Min SH, et al. **Growth Regul** 1996 Sep;6(3):144–51

Growth promotion and Turner–specific bone age after therapy with growth hormone and in combination with oxandrolone: when should therapy be started in Turner syndrome? Joss EE, et al. **Horm Res** 1997;47(3):102–9

Changes in bone mineral density, growth velocity and renal function of prepubertal uremic children during growth hormone treatment. Lanes R, et al. **Horm Res** 1996; 46(6):263–8

HFA–134a (1,1,1,2–tetrafluoroethane): effects of inhalation exposure upon reproductive performance, development and maturation of rats. Alexander DJ, et al. **Hum Exp Toxicol** 1996 Jun;15(6):508–17

A preliminary report: effects of zinc and micronutrient repletion on growth and neuropsychological function of urban Chinese children. Penland JG, et al. **J Am Coll Nutr** 1997 Jun;16(3):268–72

Effect of clenbuterol on growth and body composition during food restriction in rats. Cardoso LA, et al. **J Anim Sci** 1996 Sep;74(9):2245–52

Effects of active immunization against clenbuterol on the growth–promoting effect of clenbuterol in rats. Kim YH, et al. **J Anim Sci** 1997 Feb;75(2):446–53

Short–term recombinant human growth hormone treatment increases growth rate in achondroplasia. Shohat M, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4033–7

Yearly stepwise increments of the growth hormone dose results in a better growth response after four years in girls with Turner syndrome. Dutch Working Group on Growth Hormone. van Teunenbroek A, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):4013–21

Administration of IGF–I affects the GH axis and adolescent growth in normal monkeys. Wilson ME. **J Endocrinol** 1997 May;153(2):327–35

Growth suppression of hamster flank organs by topical application of gamma–linolenic and other fatty acid inhibitors of 5alpha–reductase. Liang T, et al. **J Invest Dermatol** 1997 Aug;109(2):152–7

Development of antibiotic resistance: a vet's tale. Wray C. **J Med Microbiol** 1997 Jan;46(1):26–33 (228 ref.)

Effect of dietary linoleic/alpha–linolenic acid ratio on growth and visual function of term infants [see comments] Jensen CL, et al. **J Pediatr** 1997 Aug;131(2):200–9. Comment in: J Pediatr 1997 Aug;131(2):173–5.

Growth and growth hormone secretion in children with cancer treated with chemotherapy. Roman J, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):105–12

Growth in children undergoing bone marrow transplantation after busulfan and cyclophosphamide conditioning. Shankar SM, et al. **J Pediatr Hematol Oncol** 1996 Nov; 18(4):362–6

Growth acceleration in children with chronic renal failure treated with growth–hormone–releasing hormone (GHRH). Pasqualini T, et al. **Medicina (B Aires)** 1996; 56(3):241–6

Inhaled steroids in the treatment of asthma. Bielory L, et al. **N J Med** 1996 Mar;93(3):180–2

Growth and development until 18 months of children exposed to tocolytics indomethacin or nylidrin. Salokorpi T, et al. **Neuropediatrics** 1996 Aug;27(4):174–7

Improvements in appetite and growth in helminth–infected schoolboys three and seven weeks after a single dose of pyrantel pamoate. Hadju V, et al. **Parasitology** 1996 Nov; 113 (Pt 5):497–504

Effects of deflazacort immunosuppression on long–term growth and growth factors after renal transplantation. Ferraris JR, et al. **Pediatr Nephrol** 1997 Jun;11(3):322–4

The effects of recombinant human erythropoietin on growth and nutritional status. Jabs K. **Pediatr Nephrol** 1996 Jun; 10(3):324–7 (25 ref.)

Visual acuity, erythrocyte fatty acid composition, and growth in term infants fed formulas with long chain polyunsaturated fatty acids for one year. Ross Pediatric Lipid Study. Auestad N, et al. **Pediatr Res** 1997 Jan; 41(1):1–10

Developmental and behavioral effects of prenatal primidone exposure in the rat. Pizzi WJ, et al. **Pharmacol Biochem Behav** 1996 Dec;55(4):481–7

Growth and behavioral effects of early postnatal chromium and manganese exposure in herring gull (larus argentatus) chicks [letter; comment] Symms KG. **Pharmacol Biochem Behav** 1997 Jan;56(1):155–9. Comment on: Pharmacol Biochem Behav 1995 Apr;50(4):607–12.

In vivo actions of IGF analogues with poor affinities for IGFBPs: metabolic and growth effects in pigs of different ages and GH responsiveness. Walton PE, et al. **Prog Growth Factor Res** 1995;6(2–4):385–95 (13 ref.)

Using patterns of child growth and development to assess communitywide effects of low–level exposure to toxic materials. Schell LM. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):373–8 (13 ref.)

Multigeneration reproduction study of policosanol in rats. Rodríguez MD, et al. **Toxicol Lett** 1997 Feb 7; 90(2–3):97–106

[Cortisone and children] Pelet B. **Rev Med Suisse Romande** 1996 Dec;116(12):979–84 (22 ref.) **(Fre)**

[Possibilities to increase the efficacy of growth hormone therapy in Turner syndrome] Ságodi L, et al. **Orv Hetil** 1997 Jun 8;138(23):1501–5 (36 ref.) (Eng. Abstr.) **(Hun)**

[The effect of lithium oxybutyrate on the development of the fetus and progeny in alcoholic intoxication of male rats] Nemova EP, et al. **Eksp Klin Farmakol** 1996 Nov–Dec; 59(6):48–50 (Eng. Abstr.) **(Rus)**

GENETICS

A gene trap approach to identify genes that control development. Takeuchi T. **Dev Growth Differ** 1997 Apr; 39(2):127–34 (31 ref.)

Altering developmental trajectories in mice by restricted index selection. Atchley WR, et al. **Genetics** 1997 Jun; 146(2):629–40

Localization of somatostatin receptor genes on mouse chromosomes 2, 11, 12, 15, and 17: correlation with growth QTLs. Brinkmeier ML, et al. **Genomics** 1997 Jul 1; 43(1):9–14

Genetic variation and covariation for ewe reproduction, lamb growth, and lamb scrotal circumference in a fall–lambing sheep flock. al–Shorepy SA, et al. **J Anim Sci** 1996 Jul; 74(7):1490–8

IMMUNOLOGY

Clinical aspects of coeliac disease in children with insulin–dependent diabetes mellitus. Lorini R, et al. **J Pediatr Endocrinol Metab** 1996 Mar;9 Suppl 1:101–11 (66 ref.)

PHYSIOLOGY

Born small for gestational age: consequences for growth. Karlberg J, et al. **Acta Paediatr Suppl** 1996 Oct;417:8–13; discussion 14 (30 ref.)

Oestrogen receptor deficiency: consequences for growth. Smith EP, et al. **Acta Paediatr Suppl** 1996 Oct;417:39–43; discussion 44 (52 ref.)

Plasticity, political economy, and physical growth status of Guatemala Maya children living in the United States. Bogin B, et al. **Am J Phys Anthropol** 1997 Jan;102(1):17–32

Physical growth of children under five years of age in Nchelenge, Zambia: results from a district survey. Gernaat HB, et al. **Am J Phys Anthropol** 1996 Aug;100(4):473–85

Longitudinal study of ontogenetic allometry of oxygen uptake in boys and girls grouped by maturity status. Beunen GP, et al. **Ann Hum Biol** 1997 Jan–Feb;24(1):33–43

Effects of early disease on later growth, and early growth on later disease, in Khartoum infants. Brush G, et al. **Ann Hum Biol** 1997 May–Jun;24(3):187–95

No evidence for saltation in human growth [letter] Lampl M, et al. **Ann Hum Biol** 1997 Jan–Feb;24(1):65–8

Secular changes in standing height, sitting height and sexual maturation of Chinese—the Hong Kong Growth Study, 1993. Leung SS, et al. **Ann Hum Biol** 1996 Jul–Aug; 23(4):297–306

Maturity–associated variation in peak oxygen uptake in active adolescent boys and girls. Malina RM, et al. **Ann Hum Biol** 1997 Jan–Feb;24(1):19–31

Seasonal growth patterns in rural Nepali children. Panter–Brick C. **Ann Hum Biol** 1997 Jan–Feb;24(1):1–18

Chronic undernutrition during adolescence. Eisenstein E. **Ann N Y Acad Sci** 1997 May 28;817:138–61 (36 ref.)

Reduction of birth weight among infants born to adolescents: maternal–fetal growth competition. Frisancho AR. **Ann N Y Acad Sci** 1997 May 28;817:272–80 (11 ref.)

Maternal growth and fetal growth: pregnancy course and outcome in the Camden Study. Scholl TO, et al. **Ann N Y Acad Sci** 1997 May 28;817:292–301 (37 ref.)

The WHO growth chart: historical considerations and current scientific issues. de Onis M, et al. **Bibl Nutr Dieta** 1996;(53):74–89 (39 ref.)

Growth in Italian children. Nicoletti I, et al. **Bibl Nutr Dieta** 1996;(53):60–73 (13 ref.)

Linear growth in children. Waterlow JC. **Bibl Nutr Dieta** 1996;(53):45–54 (29 ref.)

Involvement of p53 in cell differentiation and development. Almog N, et al. **Biochim Biophys Acta** 1997 Aug 8; 1333(1):F1–27 (203 ref.)

Growth after bone marrow transplantation in young children conditioned with chemotherapy alone. Adan L, et al. **Bone Marrow Transplant** 1997 Feb;19(3):253–6

Skeletal muscle protein reserve after bone marrow transplantation in children. Taskinen M, et al. **Bone Marrow Transplant** 1996 Nov;18(5):937–41

The GH/IGF–I axis in puberty. Loche S, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:1–4 (22 ref.)

Relationship between tissue mobilization and storage in the rat. Henry CJ, et al. **Br J Nutr** 1997 Jul;78(1):131–41

Idiorrhythmic dose–rate variability in dietary zinc intake generates a different response pattern of zinc metabolism than conventional dose–response feeding. Momčilović B, et al. **Br J Nutr** 1997 Jul;78(1):173–91

Neurodevelopment, growth, and viral load in HIV–infected infants. Pollack H, et al. **Brain Behav Immun** 1996 Sep; 10(3):298–312

Effects of nutritional factors on reproduction, growth, preweaning reflex development and postweaning learning performance in SHRSP. Matsuo T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S294–6

Physical growth, infant nutrition, breastfeeding, and general nutrition. Rider E, et al. **Curr Opin Pediatr** 1996 Jun; 8(3):293–7 (26 ref.)

Growth, short stature, and the use of growth hormone: considerations for the practicing pediatrician—an update.

Schwartz ID, et al. **Curr Probl Pediatr** 1997 Jan;27(1):14–40 (177 ref.)

Intrauterine growth correlation to postnatal growth--influence of risk factors and complications in pregnancy. Larsen T, et al. **Early Hum Dev** 1997 Jan 20; 47(2):157–65

Insulin–like growth factors and their receptors in growth. D'Ercole AJ. **Endocrinol Metab Clin North Am** 1996 Sep; 25(3):573–90 (44 ref.)

Insulin as a growth factor. Menon RK, et al. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):633–47 (47 ref.)

The mammalian cell cycle in normal and abnormal growth. Orlowski CC, et al. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):491–502 (68 ref.)

The mechanisms by which growth hormone brings about growth. The relative contributions of growth hormone and insulin–like growth factors. Spagnoli A, et al. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):615–31 (94 ref.)

Is growth saltatory? The usefulness and limitations of frequency distributions in analyzing pulsatile data. Johnson ML, et al. **Endocrinology** 1996 Dec;137(12):5197–204

Differential growth and maturation in idiopathic growth–hormone–deficient children. Cantu G, et al. **Eur J Orthod** 1997 Apr;19(2):131–9

The effect of obesity, age, puberty and gender on resting metabolic rate in children and adolescents. Molnár D, et al. **Eur J Pediatr** 1997 May;156(5):376–81

A simple but flexible growth function. France J, et al. **Growth Dev Aging** 1996 Summer;60(2):71–83 (34 ref.)

Incremental changes in total and regional body composition of growing pigs measured by dual–energy x–ray absorptiometry. Mitchell AD, et al. **Growth Dev Aging** 1996 Summer;60(2):95–105

Development and tracking of central patterns of subcutaneous fat in adolescence and adulthood: the Amsterdam Growth and Health Study. van Lenthe FJ, et al. **Int J Epidemiol** 1996 Dec;25(6):1162–71

Growth charts, growth velocity and bone development in childhood obesity. De Simone M, et al. **Int J Obes Relat Metab Disord** 1995 Dec;19(12):851–7

Inhibition of growth by pro–inflammatory cytokines: an integrated view. Johnson RW. **J Anim Sci** 1997 May; 75(5):1244–55 (22 ref.)

Weight loss and wrestling training: effects on growth–related hormones. Roemmich JN, et al. **J Appl Physiol** 1997 Jun; 82(6):1760–4

Alterations in growth and body composition during puberty. I. Comparing multicompartment body composition models. Roemmich JN, et al. **J Appl Physiol** 1997 Sep;83(3):927–35

Clinical review 89: Small as fetus and short as child: from endogenous to exogenous growth hormone. de Zegher F, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2021–6

Developmental patterns of serum 3 alpha–androstanediol glucuronide. Rittner HL, et al. **J Endocrinol Invest** 1997 Mar;20(3):138–43

Compatibility and the genesis of residual stress by volumetric growth. Skalak R, et al. **J Math Biol** 1996;34(8):889–914

Periods of risk in childhood for the development of adult obesity--what do we need to learn? Dietz WH. **J Nutr** 1997 Sep;127(9):1884S–1886S (29 ref.)

Statistical interaction model for exchangeability of food folates in rat growth bioassay. Müller HG, et al. **J Nutr** 1996 Oct;126(10):2585–92

National Cooperative Growth Study substudy VIII: a new look at the natural history of short stature. Stephure DK, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S81–2

Papers presented at International Novo Nordisk Symposium on Growth. Santiago de Compostela, Spain, October 1995. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:233–374

Foot deformities at birth: a longitudinal prospective study over a 16–year period. Widhe T. **J Pediatr Orthop** 1997 Jan–Feb;17(1):20–4

Effect of pruning on dendritic tree topology. van Pelt J. **J Theor Biol** 1997 May 7;186(1):17–32

Height, weight, and body mass index (BMI) of Vietnamese (Hanoi) schoolchildren aged 7–11 years related to parents' occupation and education. Aurelius G, et al. **J Trop Pediatr** 1996 Feb;42(1):21–6

Use of growth hormone for non–growth hormone deficient children [letter; comment] Voron DA. **JAMA** 1996 Dec 18;276(23):1878; discussion 1878. Comment on: JAMA 1996 Aug 21;276(7):567–8.

The role of zinc in health and disease: relevance to child health in developing countries. Bhutta ZA. **JPMA J Pak Med Assoc** 1997 Feb;47(2):68–73 (139 ref.)

Metabolic determinants of the age–related improvement in one–mile run/walk performance in youth. Cureton KJ, et al. **Med Sci Sports Exerc** 1997 Feb;29(2):259–67

Age–related reference ranges for growth parameters. Wellek S, et al. **Methods Inf Med** 1995 Dec;34(5):523–8

Proceedings of symposium on growth and endocrine changes in kidney disease. Heidelberg, Germany, 30 March–1 April 1995. **Pediatr Nephrol** 1996 Jun;10(3):255–394

The effects of recombinant human erythropoietin on growth and nutritional status. Jabs K. **Pediatr Nephrol** 1996 Jun; 10(3):324–7 (25 ref.)

Early age–dependent growth impairment in chronic renal failure. European Study Group for Nutritional Treatment of Chronic Renal Failure in Childhood. Karlberg J, et al. **Pediatr Nephrol** 1996 Jun;10(3):283–7

Acidosis prevents growth hormone–induced growth in experimental uremia. Kleinknecht C, et al. **Pediatr Nephrol** 1996 Jun;10(3):256–60

Catch–up growth in children with vesico–ureteric reflux. Polito C, et al. **Pediatr Nephrol** 1997 Apr;11(2):164–8

Insulin–like growth factor binding proteins as growth inhibitors in children with chronic renal failure. Powell DR, et al. **Pediatr Nephrol** 1996 Jun;10(3):343–7 (45 ref.)

Growth charts for prepubertal children with chronic renal failure due to congenital renal disorders. European Study Group for Nutritional Treatment of Chronic Renal Failure in Childhood. Schaefer F, et al. **Pediatr Nephrol** 1996 Jun; 10(3):288–93

Eliminating sleep–associated hypoxemia improves growth in infants with bronchopulmonary dysplasia. Moyer–Mileur LJ, et al. **Pediatrics** 1996 Oct;98(4 Pt 1):779–83

Physical performance in relation to age, sex, social class and sports activities in kindergarten and elementary school. Krombholz H. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1168–70

Paternal exposures: impact on reproductive and developmental outcome. An overview. Friedler G. **Pharmacol Biochem Behav** 1996 Dec;55(4):691–700 (135 ref.)

Diabetes reduces growth and body composition more in male than in female rats. Cortright RN, et al. **Physiol Behav** 1996 Nov;60(5):1233–8

Variation in growth form and precocity at birth in eutherian mammals. Gaillard JM, et al. **Proc R Soc Lond B Biol Sci** 1997 Jun 22;264(1383):859–68

The effect of prepuberal and postpuberal gonadectomy on radial physeal closure in male and female domestic cats. Root MV, et al. **Vet Radiol Ultrasound** 1997 Jan–Feb; 38(1):42–7

[Endocrino–gynecologic problems of the female adolescent] Sirpresi S, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5 Suppl):1–7 (6 ref.) (Eng. Abstr.) **(Ita)**

[Growth impairment in infants with atopic dermatitis] Miyoshi M, et al. **Arerugi** 1996 Jan;45(1):41–8 (Eng. Abstr.) **(Jpn)**

[Reversible changes of the neural pathways and receptor functions associated with development and regeneration following nerve injuries] Nabekura J. **Fukuoka Igaku Zasshi** 1997 Jul;88(7):267–73 (7 ref.) **(Jpn)**

[Digestive enzyme activity in growing rats consuming nitrates against a background og protein insufficiency] Timofeeva NM, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):82–8 (Eng. Abstr.) **(Rus)**

[Weight for height of Chilean school children according to age and puberal development] Raquel BA, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):19–24 (Eng. Abstr.) **(Spa)**

[The age–related changes in the antioxidant system enzymes of the erythroid cells of swine at the early stages of postnatal development] Snityns'kyĭ VV, et al. **Fiziol Zh** 1996;42(5–6):19–25 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

Sensitivity of reproducing sows and suckling pigs to stray voltage. Robert S, et al. **Am J Vet Res** 1996 Aug; 57(8):1245–9

Effect of UVA radiation on development and hatching success in Oryzias latipes, the Japanese Medaka. Bass EL, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):537–42

[Late sequelae of comprehensive antineoplastic therapy in children and adolescents with solid extracranial tumors. Effect on growth, pubertal development and gonadal function] Snajderová M, et al. **Cas Lek Cesk** 1997 May 7;136(9):276–8 (Eng. Abstr.) **(Cze)**

GROWTH DISORDERS

see related
BONE DISEASES, DEVELOPMENTAL
DWARFISM
GIGANTISM

Microphthalmia, marked short stature, hearing loss, and developmental delay: extension of the phenotype of GOMBO syndrome? Farrell SA. **Am J Med Genet** 1997 Oct 3;72(1):18–23

GAPO syndrome in Türkiye [letter; comment] Sayli BS, et al. **Am J Med Genet** 1996 Oct 28;65(3):252–3. Comment on: Am J Med Genet 1995 Jul 31;58(1):87–90.

Laron syndrome: typical and atypical forms. Woods KA, et al. **Baillieres Clin Endocrinol Metab** 1996 Jul; 10(3):371–87 (71 ref.)

Proceedings of the 2nd Novo Nordisk workshop on chronic renal insufficiency. Rome, Italy, October 26–28, 1995. **Br J Clin Pract Symp Suppl** 1996 Aug;85:1–68

Are cardio–facio–cutaneous syndrome and Noonan syndrome distinct? A case of CFC offspring of a mother with Noonan syndrome. Leichtman LG. **Clin Dysmorphol** 1996 Jan;5(1):61–4

Oto–facio–osseous–gonadal syndrome: a new form of syndromic deafness? da–Silva EO, et al. **Clin Genet** 1997 Jul;52(1):51–5

The Floating–Harbor syndrome: two affected siblings in a family. Fryns JP, et al. **Clin Genet** 1996 Oct;50(4):217–9

Life–threatening cardiac involvement throughout life in a case of Costello syndrome. Fukao T, et al. **Clin Genet** 1996 Oct;50(4):244–7 (17 ref.)

Desbuquois syndrome in an Arab Bedouin family. al–Gazeli LI, et al. **Clin Genet** 1996 Oct;50(4):255–9 (13 ref.)

GAPO syndrome: first Egyptian case with ultrastructural changes in the gingiva. Meguid NA, et al. **Clin Genet** 1997 Aug;52(2):110–5

Overgrowth. Section VI. Genetic syndromes and other disorders associated with overgrowth. Sotos JF. **Clin Pediatr (Phila)** 1997 Mar;36(3):157–70 (56 ref.)

Overgrowth. Section V. Syndromes and other disorders associated with overgrowth. Sotos JF. **Clin Pediatr (Phila)** 1997 Feb;36(2):89–103 (54 ref.)

Overgrowth disorders. Sotos JF. **Clin Pediatr (Phila)** 1996 Oct;35(10):517–29 (66 ref.)

Proceedings of the 8th Tokyo Symposium on Growth Hormone and Related Factors. February 17, 1996. **Endocr J** 1996 Oct;43 Suppl:S1–146

Growth retardation starts in the first three months of life among rural Guatemalan children. Rivera J, et al. **Eur J Clin Nutr** 1997 Feb;51(2):92–6

Growth Standards, Bone Maturation and Idiopathic Short Stature. Proceedings of the 1st KIGS Expert Meeting. Positano, Italy, November 10–11, 1995. **Horm Res** 1996;45 Suppl 2:1–67 (0 ref.)

Growth parameters and predictors of growth in short children with and without growth hormone (GH) deficiency treated with human GH: a randomized controlled study. Soliman AT, et al. **J Trop Pediatr** 1996 Oct;42(5):281–6

Mice lacking the vitamin D receptor exhibit impaired bone formation, uterine hypoplasia and growth retardation after weaning. Yoshizawa T, et al. **Nat Genet** 1997 Aug; 16(4):391–6

[Weaver syndrome. 1st case reported in Venezuela] Sánchez O, et al. **Invest Clin** 1997 Mar;38(1):9–24 (29 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Reduced levels of growth hormone, insulin–like growth factor–I and binding protein–3 in patients with shunted hydrocephalus. Löppönen T, et al. **Arch Dis Child** 1997 Jul;77(1):32–7

Weakness of biochemical markers of nutritional and inflammatory status as prognostic indices for growth retardation and morbidity of young children in central Africa. Tonglet R, et al. **Eur J Clin Nutr** 1997 Mar; 51(3):148–53

Growth retardation in constitutionally short children is related both to low serum levels of insulin–like growth factor–I and to its reduced bioavailability. Lindgren BF, et al. **Growth Regul** 1996 Sep;6(3):158–64

Changes in serum insulin–like growth factor I (IGF–I) and IGF–binding protein–3 levels during growth hormone treatment in prepubertal short children born small for gestational age. Boguszewski M, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3902–8

Overnight growth hormone concentrations are usually normal in pubertal children with idiopathic short stature--a Clinical Research Center study. Rose SR, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1063–8

Serum growth hormone–binding protein is decreased in prepubertal children with idiopathic short stature. Dávila N, et al. **J Endocrinol Invest** 1996 Jun;19(6):348–52

Effect of chronic treatment with biosynthetic growth hormone (GH) on the GH response to double GH–releasing hormone administration in children with short stature. Scacchi M, et al. **J Endocrinol Invest** 1997 Feb;20(2):72–6

National Cooperative Growth Study substudy VI: the clinical utility of growth–hormone–binding protein, insulin–like growth factor I, and insulin–like growth factor–binding protein 3 measurements. Attie KM, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S56–60

A case of hyperzincemia with functional zinc depletion: a new disorder? Sampson B, et al. **Pediatr Res** 1997 Aug; 42(2):219–25

CHEMICALLY INDUCED

The effects of chemotherapy on the long–term survivors of malignancy. Davies HA, et al. **Br J Hosp Med** 1997 Mar 5–18;57(5):215–8 (36 ref.)

Growth suppression by glucocorticoid therapy. Allen DB. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):699–717 (83 ref.)

A case of iatrogenic growth retardation induced by a corticosteroid containing anti–allergic drug [letter] Singh SK. **Horm Metab Res** 1996 Mar;28(3):156–7

Methylprednisolone exposure, rather than dose, predicts adrenal suppression and growth inhibition in children with liver and renal transplants. Sarna S, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):75–7

Potential adverse endocrine effects of inhaled corticosteroids. Batch JA. **J Paediatr Child Health** 1996 Aug;32(4):278–80 (32 ref.)

Effect of long–term lead exposure on hematology, blood biochemistry, and growth curves in monkeys. Rice DC. **Neurotoxicology** 1997;18(1):221–36

COMPLICATIONS

De novo interstitial tandem duplication of chromosome 4(q21–q28). Navarro EG, et al. **Am J Med Genet** 1996 Mar 29;62(3):297–9 (12 ref.)

Cerebral palsy in infants with asymmetric growth restriction. Williams MC, et al. **Am J Perinatol** 1997 Apr;14(4):211–5

Effects of early disease on later growth, and early growth on later disease, in Khartoum infants. Brush G, et al. **Ann Hum Biol** 1997 May–Jun;24(3):187–95

Graves' disease associated with exophthalmos, cerebral ventricular dilatation and accelerated growth. Arisaka O, et al. **Arch Dis Child** 1997 Jan;76(1):62–4

Genetic disorders associated with overgrowth. Sotos JF. **Clin Pediatr (Phila)** 1997 Jan;36(1):39–49 (45 ref.)

Magnetic resonance imaging for diagnosis of Shwachman's syndrome. Lacaille F, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):599–603

Abnormalities in skeletal growth in children with juvenile rheumatoid arthritis. Cassidy JT, et al. **Rheum Dis Clin North Am** 1997 Aug;23(3):499–522 (145 ref.)

Growth retardation and bone loss as determinants of axial osteopenia in juvenile chronic arthritis. Kotaniemi A. **Scand J Rheumatol** 1997;26(1):14–8

CONGENITAL

Homozygous nonsense mutation in the insulin receptor gene of a patient with severe congenital insulin resistance: leprechaunism and the role of the insulin-like growth factor receptor [see comments] Jospe N, et al. **Clin Endocrinol (Oxf)** 1996 Aug;45(2):229–35. Comment in: Clin Endocrinol (Oxf) 1996 Aug;45(2):237–8.

DIAGNOSIS

Case of Schwachman's syndrome with intermittent neutropenia and lymphocyte subset disturbances [letter] Oksel F, et al. **Am J Hematol** 1997 Jan;54(1):84–5

Urinary growth hormone estimation in diagnosing severe growth hormone deficiency. Pirazzoli P, et al. **Arch Dis Child** 1996 Sep;75(3):228–31

Managing temporal worlds for medical trend diagnosis. Haimowitz IJ, et al. **Artif Intell Med** 1996 Jul;8(3):299–321

Essentials of growth diagnosis. Rosenfield RL. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):743–58 (29 ref.)

Use of insulin-like growth factor-I (IGF-I) and IGF-binding protein-3 in the diagnosis of acromegaly and growth hormone deficiency in adults. Thissen JP, et al. **Growth Regul** 1996 Dec;6(4):222–9

Biochemical diagnostic strategies in the evaluation of short stature: the diagnosis of insulin-like growth factor deficiency. Rosenfeld RG. **Horm Res** 1996;46(4–5):170–3 (17 ref.)

Measurement of spontaneous, 12-hour sleep-associated GH secretion in prepubertal children with short stature: clinical relevance and practicability? Schmidt H, et al. **Horm Res** 1996 Jul;46(1):33–7

Growth hormone secretion assessment in the diagnosis of short stature. Audí L, et al. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:313–24 (74 ref.)

Gonadotropin-releasing hormone agonist analog (nafarelin): a useful diagnostic agent for the distinction of constitutional growth delay from hypogonadotropic hypogonadism. Kletter GB, et al. **J Pediatr Endocrinol Metab** 1996 Jan–Feb;9(1):9–19

Growth hormone releasing hexapeptide-6 (GHRP-6) test in the diagnosis of GH-deficiency. Pombo M, et al. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:333–8 (35 ref.)

Why do we weigh infants and children? Morley D. **Nutr Health** 1996;11(2):105–8

Roberts syndrome: first-trimester prenatal diagnosis [letter; comment] Otaño L, et al. **Prenat Diagn** 1996 Aug; 16(8):770–1. Comment on: Prenat Diagn 1996 Feb;16(2):125–30.

Clinical information on serum IGFBP-3 levels and IGFBP-3 proteolytic activity in childhood. Hasegawa Y, et al. **Prog Growth Factor Res** 1995;6(2–4):457–63 (19 ref.)

["I accuse"! Is the small height yet acceptable? (editorial)] Maroteaux P. **Arch Pediatr** 1996 Jul;3(7):649–50 **(Fre)**

[How I explore... growth retardation] Bourguignon JP. **Rev Med Liege** 1996 Sep;51(9):605–9 **(Fre)**

[The Wolfram syndrome: diabetes mellitus, hypacusis, optic atrophy and short stature in STH deficiency] Hofmann M, et al. **Dtsch Med Wochenschr** 1997 Jan 24;122(4):86–90 (13 ref.) (Eng. Abstr.) **(Ger)**

[Sensitivity of the clonidine and guanfacine tests (alpha-2-adrenergic agonists) as pharmacologic stimulants of growth hormone. Effects on plasma cortisol] Durá Travé T, et al. **An Esp Pediatr** 1996 Dec;45(6):575–8 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Early childhood supplementation does not benefit the long-term growth of stunted children in Jamaica. Walker SP, et al. **J Nutr** 1996 Dec;126(12):3017–24

Elemental diet improves steroid-dependent eosinophilic gastroenteritis and reverses growth failure. Justinich C, et al. **J Pediatr Gastroenterol Nutr** 1996 Jul;23(1):81–5

DRUG THERAPY

Restricted catch-up growth after cessation of steroid treatment in a growth-hormone-deficient child. Boersma B, et al. **Acta Paediatr** 1996 Aug;85(8):998–1002

Final height outcome of growth hormone-deficient patients treated since less than five years of age. De Luca F, et al. **Acta Paediatr** 1996 Oct;85(10):1167–71

Iron status of children with short stature during accelerated growth due to growth hormone treatment. Vihervuori E, et al. **Acta Paediatr** 1997 Jun;86(6):588–93

Effect of clonidine on the height of a child with glycogen storage disease type VI: a 13 year follow-up study. Asami T, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):524–8

The effect of growth hormone replacement therapy for up to 12 months on lipoprotein composition and lipoprotein(a) in growth hormone-deficient adults. Webster JM, et al. **Atherosclerosis** 1997 Aug;133(1):115–21

Treatment of growth hormone insensitivity syndrome (GHIS) with insulin-like growth factor (IGF-I). Ranke MB. **Baillieres Clin Endocrinol Metab** 1996 Jul;10(3):401–10 (28 ref.)

Growth hormone: panacea or punishment for short stature? [editorial; comment] Brook CG. **BMJ** 1997 Sep 20; 315(7110):692–3. Comment on: BMJ 1997 Sep 20;315(7110):708–13.

Long-term results of growth hormone treatment in France in children of short stature: population, register based study [see comments] Coste J, et al. **BMJ** 1997 Sep 20; 315(7110):708–13. Comment in: BMJ 1997 Sep 20;315(7110):692–3.

Collagen formation and degradation increase during growth hormone therapy in children. Vihervuori E, et al. **Bone** 1997 Feb;20(2):133–8

Is the response to rhGH in haemodialysis patients less effective than in patients with chronic renal failure? Société de Néphrologie Pédiatrique. Cochat P, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:21–2

Effect of growth hormone treatment on pubertal growth in a boy with cystinosis and growth failure after renal transplantation. Haffner D, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:7–9

Use of recombinant human growth hormone (rhGH) in pubertal patients with CRI/dialysis/post-transplant: Dutch data. Dutch Study Group on Growth in Children with Chronic Renal Disease. Hokken-Koelega AC, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:5–6

Recombinant human growth hormone (rhGH) is effective in pubertal patients. Hokken-Koelega AC. **Br J Clin Pract Symp Suppl** 1996 Aug;85:12–3

rhGH use in children with CRI and undergoing dialysis post-transplant in Japan: a multicentre study. MultiCenter Study Group Japan. Kawaguchi H, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:26–31

Use of recombinant human growth hormone (rhGH) in pubertal patients with renal disease. Maxwell H. **Br J Clin Pract Symp Suppl** 1996 Aug;85:10–1

Recombinant human growth hormone (rhGH) treatment of infants and young children with chronic renal failure. Maxwell H. **Br J Clin Pract Symp Suppl** 1996 Aug;85:64–5

Is the response to rhGH in peritoneal dialysis patients less effective than in patients with chronic renal insufficiency. Perfumo F, et al. **Br J Clin Pract Symp Suppl** 1996 Aug; 85:18–20

Benign intracranial hypertension (pseudotumour cerebri) during rhGH therapy. Querfeld U. **Br J Clin Pract Symp Suppl** 1996 Aug;85:68

Causes of failure to respond to recombinant human growth hormone (rhGH). Rees L. **Br J Clin Pract Symp Suppl** 1996 Aug;85:32–3

The role of recombinant human growth hormone (rhGH) in pubertal patients. Rees L. **Br J Clin Pract Symp Suppl** 1996 Aug;85:14–7

Provocative growth hormone testing is not required before initiation of rhGH treatment in children with renal and liver transplants. Sarna S, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:41–3

Pathogenic mechanisms underlying the variable response to recombinant human growth hormone in children with chronic renal failure. Schaefer F. **Br J Clin Pract Symp Suppl** 1996 Aug;85:23–5

Predictors of the response to growth hormone in short prepubertal children post-renal transplant. German Study Group for Growth Hormone Treatment in Children Post Renal Transplantation Study Group Members. Tönshoff B, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:34–7

Methionine potentiates both basal and GHRH-induced GH secretion in children. Bellone J, et al. **Clin Endocrinol (Oxf)** 1997 Jul;47(1):61–4

Effect of low dose oxandrolone and testosterone treatment on the pituitary-testicular and GH axes in boys with constitutional delay of growth and puberty. Crowne EC, et al. **Clin Endocrinol (Oxf)** 1997 Feb;46(2):209–16

Impaired reproductive function in women treated for growth hormone deficiency during childhood. de Boer JA, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):681–9

Long-term cardiovascular effects of growth hormone treatment in GH-deficient adults. Preliminary data in a small group of patients. Johannsson G, et al. **Clin Endocrinol (Oxf)** 1996 Sep;45(3):305–14

Growth hormone versus placebo treatment for one year in growth hormone deficient adults: increase in exercise capacity and normalization of body composition. Jørgensen JO, et al. **Clin Endocrinol (Oxf)** 1996 Dec;45(6):681–8

Bioavailability and bioactivity of intravenous vs subcutaneous infusion of growth hormone in GH-deficient patients. Laursen T, et al. **Clin Endocrinol (Oxf)** 1996 Sep; 45(3):333–9

Treatment of radiation-induced growth hormone deficiency with growth hormone-releasing hormone. Ogilvy-Stuart AL, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):571–8

Diurnal variation in serum insulin-like growth factor (IGF)-I and IGF binding protein-3 concentrations during daily subcutaneous injections of recombinant human growth hormone in GH-deficient adults. Oscarsson J, et al. **Clin Endocrinol (Oxf)** 1997 Jan;46(1):63–8

Urinary albumin excretion in short children treated with recombinant human growth hormone [see comments] Sasaki H, et al. **Clin Nephrol** 1996 Jul;46(1):6–9. Comment in: Clin Nephrol 1997 Mar;47(3):210.

Ethical and cross cultural questions concerning pediatric clinical trials. Pilpel D, et al. **Control Clin Trials** 1996 Jun; 17(3):201–8

Defective response of body height to growth hormone treatment in resistance to thyroid hormone with short stature. Takamatsu J, et al. **Endocr J** 1996 Oct;43 Suppl:S131–3

Desensitization from long-term intranasal treatment with hexarelin does not interfere with the biological effects of this growth hormone-releasing peptide in short children. Klinger B, et al. **Eur J Endocrinol** 1996 Jun;134(6):716–9

Therapy with recombinant growth hormone in children with Crohn disease and growth failure [letter] Henker J. **Eur J Pediatr** 1996 Dec;155(12):1066–7

Growth hormone therapy in Silver Russell syndrome: 5 years experience of the Australian and New Zealand Growth database (OZGROW). Rakover Y, et al. **Eur J Pediatr** 1996 Oct;155(10):851–7

Effect of growth hormone therapy on bone metabolism of growth hormone deficient children. Stamoyannou L, et al. **Eur J Pediatr** 1997 Aug;156(8):592–6

Muscle force and endurance in untreated and human growth hormone or insulin-like growth factor-I-treated patients with growth hormone deficiency or Laron syndrome. Brat O, et al. **Horm Res** 1997;47(2):45–8

Growth hormone as a new treatment modality for short children with chronic renal failure. The German Study Group for Growth Hormone Treatment in Chronic Renal Failure. Mehls O, et al. **Horm Res** 1996;46(4–5):230–5 (54 ref.)

Factors determining pubertal growth and final height in growth hormone treatment of idiopathic growth hormone deficiency. Analysis of 195 Patients of the Kabi Pharmacia International Growth Study. Ranke MB, et al. **Horm Res** 1997;48(2):62–71

Assessment of red blood cell indices in growth-hormone-treated children. Valerio G, et al. **Horm Res** 1997;47(2):62–6

Changes in serum insulin-like growth factor I (IGF-I) and IGF-binding protein-3 levels during growth hormone treatment in prepubertal short children born small for gestational age. Boguszewski M, et al. **J Clin Endocrinol Metab** 1996 Nov;81(11):3902–8

Accuracy of final height prediction and effect of growth-reductive therapy in 362 constitutionally tall children. de Waal WJ, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1206–16

The effects of testosterone and dihydrotestosterone on hypothalamic regulation of growth hormone secretion. Eakman GD, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1217–23

Urinary pyridinium collagen cross-links predict growth performance in children with idiopathic short stature and with growth hormone (GH) deficiency treated with GH. Skeletal metabolism during GH treatment. Spagnoli A, et al. **J Clin Endocrinol Metab** 1996 Oct;81(10):3589–93

Growth hormone treatment for growth hormone deficient adults. Clark W, et al. **J Clin Pharm Ther** 1996 Dec; 21(6):367–72 (24 ref.)

Craniofacial growth in short children born small for gestational age: effect of growth hormone treatment. van Erum R, et al. **J Dent Res** 1997 Sep;76(9):1579–86

Effect of chronic treatment with biosynthetic growth hormone (GH) on the GH response to double GH-releasing hormone administration in children with short stature. Scacchi M, et al. **J Endocrinol Invest** 1997 Feb;20(2):72–6

Growth hormone (GH) response to GH-releasing hormone in short children: lack of correlation with endogenous nocturnal GH secretion. Seminara S, et al. **J Endocrinol Invest** 1997 Mar;20(3):118–21

Growth hormone therapy for 3 years: the OZGROW experience. Cowell CT, et al. **J Paediatr Child Health** 1996 Apr;32(2):86–93

Proceedings of the National Cooperative Growth Study 10th Annual Investigators Meeting. San Francisco, California, October 17–20, 1996. Dedicated to the memory of Dr. Michael J. Cronin. **J Pediatr** 1997 Jul;131(1 Pt 2):S1–82

Acceleration of retarded growth in children with Gaucher disease after treatment with alglucerase. Kaplan P, et al. **J Pediatr** 1996 Jul;129(1):149–53

Unfavorable effects of growth hormone therapy on the final height of boys with short stature not caused by growth hormone deficiency [see comments] Kawai M, et al. **J Pediatr** 1997 Feb;130(2):205–9. Comment in: J Pediatr 1997 Feb;130(2):172–4.

Growth hormone treatment in short normal children. Bernasconi S, et al. **J Pediatr Endocrinol Metab** 1996 Jun;

9 Suppl 3:339–43

Growth hormone and body composition. Christiansen JS. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:365–8 (24 ref.)

Growth hormone treatment in children before and after renal transplantation. Hokken-Koelega AC. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:359–64 (41 ref.)

Growth hormone for adults [editorial] Hadden DR. **J R Soc Med** 1997 Mar;90(3):122–3

Testicular neoplasm in patient treated with growth hormone [letter] Sakai Y, et al. **Lancet** 1996 Sep 21;348(9030):832

The safety and effectiveness of human growth hormone using pharmacological dosing. Slyper A. **Med Hypotheses** 1995 Dec;45(6):523–8 (59 ref.)

Growth hormone treatment of short children with chronic renal failure before and after renal transplantation: rationale and recent results. Mehls O, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1747–50 (39 ref.)

Secondary hyperparathyroidism is not always an obstacle to improved growth during recombinant human growth hormone treatment [letter] Picca S, et al. **Nephron** 1997; 75(2):239–40

Chronic administration of a new potent agonist of growth hormone- releasing hormone induces compensatory linear growth in growth hormone-deficient rats: mechanism of action. Kovács M, et al. **Neuroendocrinology** 1996 Sep; 64(3):169–76

Factors influencing the response to growth hormone in children with renal disease. Rees L, et al. **Pediatr Nephrol** 1996 Jun;10(3):337–9

Growth preservation after brief growth hormone therapy in chronic renal insufficiency. Warshaw BL, et al. **Pediatr Nephrol** 1997 Feb;11(1):82–3

Short dialyzed children respond less to growth hormone than patients prior to dialysis. German Study Group for Growth Hormone Treatment in Chronic Renal Failure. Wühl E, et al. **Pediatr Nephrol** 1996 Jun;10(3):294–8

Growth of growth hormone-treated and nontreated children before and after tethered spinal cord release. Rotenstein D, et al. **Pediatr Neurosurg** 1996;24(5):238–41

Spontaneous growth and response to growth hormone treatment in children with growth hormone deficiency and idiopathic short stature. Wit JM, et al. **Pediatr Res** 1996 Feb;39(2):295–302 (79 ref.)

Megestrol acetate treatment of growth failure in children infected with human immunodeficiency virus. Clarick RH, et al. **Pediatrics** 1997 Mar;99(3):354–7

Mechanisms and treatment of growth retardation in children with liver transplants. Sarna S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):447–8

[Growth hormone-releasing peptides (GHRP) and their analogues] Korbonits M, et al. **Orv Hetil** 1996 Nov 10; 137(45):2503–9 (73 ref.) (Eng. Abstr.) **(Hun)**

[Knemometry in the assessment of short term effects of growth hormone therapy in children with several growth disorders] Guzzaloni G, et al. **Minerva Pediatr** 1997 Apr; 49(4):139–45 (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

Growth retardation and early death of beta-1,4-galactosyltransferase knockout mice with augmented proliferation and abnormal differentiation of epithelial cells. Asano M, et al. **EMBO J** 1997 Apr 15; 16(8):1850–7

Deficiency of a protein-repair enzyme results in the accumulation of altered proteins, retardation of growth, and fatal seizures in mice. Kim E, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6132–7

Growth retardation and cysteine deficiency in gamma-glutamyl transpeptidase-deficient mice. Lieberman MW, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):7923–6

EPIDEMIOLOGY

Population-based growth stunting. Lewit EM, et al. **Future Child** 1997 Summer-Fall;7(2):149–56

Association of breastfeeding and stunting in Peruvian toddlers: an example of reverse causality. Marquis GS, et al. **Int J Epidemiol** 1997 Apr;26(2):349–56

Clinical manifestations of Kashin-Beck disease in Nyemo Valley, Tibet. Mathieu F, et al. **Int Orthop** 1997;21(3):151–6

Age-specific determinants of stunting in Filipino children. Adair LS, et al. **J Nutr** 1997 Feb;127(2):314–20

Stunting is associated with overweight in children of four nations that are undergoing the nutrition transition. Popkin BM, et al. **J Nutr** 1996 Dec;126(12):3009–16

Linear growth retardation in Zanzibari school children. Stoltzfus RJ, et al. **J Nutr** 1997 Jun;127(6):1099–105

The growth of children for two generations at an Australian aboriginal community. Alsop-Shields L. **J Pediatr Nurs** 1996 Dec;11(6):402–8

[Follow-up of the preterm child at 1 year of correct age: assessment of development risk] Zaramella P, et al. **Pediatr Med Chir** 1996 Jul-Aug;18(4):365–71 (Eng. Abstr.) **(Ita)**

[Comparison between nutritional status of school children of low socioeconomic level from Santiago, Chile and Sao Paulo, Brazil] Amigo H, et al. **Arch Latinoam Nutr** 1995 Mar;45(1):31–5 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Persistent growth faltering among aboriginal infants and young children in north-west Australia: a retrospective study from 1969 to 1993. Rousham EK, et al. **Acta Paediatr** 1997 Jan;86(1):46–50

Growth of Hmong children. Gjerdingen DK, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1295–8

Why are boys so small? Child growth, diet and gender near Ranomafana, Madagascar. Hardenbergh SH. **Soc Sci Med** 1997 Jun;44(11):1725–38

ETIOLOGY

Linear growth in early treated children with congenital hypothyroidism. Heyerdahl S, et al. **Acta Paediatr** 1997 May;86(5):479–83

Thyroid functions in mild and severe forms of sickle cell anemia. Evliyaoğlu N, et al. **Acta Paediatr Jpn** 1996 Oct; 38(5):460–3

Orthotopic liver transplantation reverses the adverse nutritional changes of end-stage liver disease in children. Holt RI, et al. **Am J Clin Nutr** 1997 Feb;65(2):534–42

Effects of early disease on later growth, and early growth on later disease, in Khartoum infants. Brush G, et al. **Ann Hum Biol** 1997 May-Jun;24(3):187–95

Asthma and growth--cause for concern? Asthma & Growth in Tayside Children. Neville RG, et al. **Ann Hum Biol** 1996 Jul-Aug;23(4):323–31

Growth and endocrine sequelae of craniopharyngioma. DeVile CJ, et al. **Arch Dis Child** 1996 Aug;75(2):108–14

Nutritional support and growth in thalassaemia major. Fuchs GJ, et al. **Arch Dis Child** 1997 Jun;76(6):509–12

Adult height in patients with childhood onset atopic dermatitis. Patel L, et al. **Arch Dis Child** 1997 Jun; 76(6):505–8

Management of growth failure in Crohn's disease. Walker-Smith JA. **Arch Dis Child** 1996 Oct;75(4):351–4

Growth impairment in very low birthweight children at 12 years: correlation with perinatal and outcome variables. Powls A, et al. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov;75(3):F152–7

Growth retardation, alopecia, pseudoanodontia, and optic atrophy (GAPO syndrome) with congenital glaucoma. Mullaney PB, et al. **Arch Ophthalmol** 1997 Jul;115(7):940–1

Romanian adoption. The Manitoba experience. Benoit TC, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1278–82

Widespread growth retardation and variable growth recovery in foster children in the first year after initial placement. Wyatt DT, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):813–6

Partial growth hormone insensitivity in childhood. Carlsson LM. **Baillieres Clin Endocrinol Metab** 1996 Jul; 10(3):389–400 (49 ref.)

Acquired growth hormone resistance in catabolic states. Jenkins RC, et al. **Baillieres Clin Endocrinol Metab** 1996 Jul;10(3):411–9 (39 ref.)

Growth retardation, testicular stimulation, and increased melatonin synthesis by weak magnetic fields (50 Hz) in Djungarian hamsters, Phodopus sungorus. Niehaus M, et al. **Biochem Biophys Res Commun** 1997 May 29; 234(3):707–11

Long-term neuropsychological risks in pediatric bone marrow transplant: what do we know? Cool VA. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S45–9

Growth, growth hormone and final height after BMT. Possible recovery of irradiation-induced growth hormone insufficiency. Holm K, et al. **Bone Marrow Transplant** 1996 Jul;18(1):163–70

Use of recombinant human growth hormone (rhGH) in pubertal patients with CRI/dialysis/post-transplant: Dutch data. Dutch Study Group on Growth in Children with Chronic Renal Disease. Hokken-Koelega AC, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:5–6

Use of recombinant human growth hormone (rhGH) in pubertal patients with renal disease. Maxwell H. **Br J Clin Pract Symp Suppl** 1996 Aug;85:10–1

Markedly delayed linear growth in a child with cloacal exstrophy. Kano K, et al. **Br J Urol** 1997 Jun;79(6):989–90

Evaluation of superficial femoral artery compromise and limb growth retardation after transfemoral artery balloon dilatations. Lee HY, et al. **Circulation** 1997 Feb 18; 95(4):974–80

Growth deficiency in polytransfused beta-thalassaemia patients is not growth hormone dependent. Cavallo L, et al. **Clin Endocrinol (Oxf)** 1997 Jun;46(6):701–6

The investigation of growth hormone insensitivity. Savage MO, et al. **Clin Endocrinol (Oxf)** 1996 Sep;45(3):257–60

Section III other hormonal causes. Sotos JF. **Clin Pediatr (Phila)** 1996 Dec;35(12):637–48 (35 ref.)

Longitudinal study of neuropsychological outcome in blind extremely-low-birthweight children. Gosch A, et al. **Dev Med Child Neurol** 1997 May;39(5):297–304

Feeding ability in Rett syndrome. Morton RE, et al. **Dev Med Child Neurol** 1997 May;39(5):331–5

Pre- and post-natal growth in children of women who smoked in pregnancy. Vik T, et al. **Early Hum Dev** 1996 Jul 19;45(3):245–55

Effect of tempe-yellow maize porridge and milk-yellow maize porridge on growth rate, diarrhoea and duration of rehabilitation of malnourished children [see comments] Kalavi FN, et al. **East Afr Med J** 1996 Jul;73(7):427–31. Comment in: Early Hum Dev 1996 Jul;73(7):417–8.

Decreased sensitivity to insulin-like growth factor I as a cause of growth failure in Turner's syndrome? [comment] Kiess W, et al. **Eur J Clin Invest** 1997 Jul;27(7):548–9 (14 ref.). Comment on: Eur J Clin Invest 1997 Jul;27(7):543–7.

Auxological and endocrinological evaluation of children with hydrocephalus and/or meningomyelocele. Hochhaus F, et al. **Eur J Pediatr** 1997 Aug;156(8):597–601

Final height and puberty in 40 patients after antileukaemic treatment during childhood. Mohnike K, et al. **Eur J Pediatr** 1997 Apr;156(4):272–6

Short stature due to growth hormone deficiency associated with Cushing's disease and ulcerative colitis. Kotake M, et al. **Horm Metab Res** 1996 Oct;28(10):565–9

Growth hormone as a new treatment modality for short children with chronic renal failure. The German Study Group for Growth Hormone Treatment in Chronic Renal Failure. Mehls O, et al. **Horm Res** 1996;46(4-5):230–5 (54 ref.)

Severe growth retardation following limb lengthening: a case report. Price CT, et al. **Iowa Orthop J** 1996;16:139–46

Growth hormone secretion in HIV-positive versus HIV-negative hemophilic males with abnormal growth and pubertal development. The Hemophilia Growth and Development Study. Ratner Kaufman F, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jun 1;15(2):137–44

Maternal vitamin A deficiency and child growth failure during human immunodeficiency virus infection. Semba RD, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Mar 1;14(3):219–22

Nutritional intake in children with renal insufficiency: a report of the growth failure in children with renal diseases study. Foreman JW, et al. **J Am Coll Nutr** 1996 Dec; 15(6):579–85

Zinc and growth. Nishi Y. **J Am Coll Nutr** 1996 Aug; 15(4):340–4 (47 ref.)

Interleukin 6 causes growth impairment in transgenic mice through a decrease in insulin-like growth factor-I. A model for stunted growth in children with chronic inflammation. De Benedetti F, et al. **J Clin Invest** 1997 Feb 15; 99(4):643–50

Kenny syndrome: case report and literature review. Tsai CE, et al. **J Formos Med Assoc** 1996 Oct;95(10):793–7

Treating congenital hypothyroidism: maximum age limit up to which a socially compatible child is expected. Kundu R, et al. **J Indian Med Assoc** 1996 Mar;94(3):96–8

Deficiency of 5-oxoprolinase in an 8-year-old with developmental delay. Bernier FP, et al. **J Inherit Metab Dis** 1996;19(3):367–8

Dysregulation of growth and development in HIV-infected children. Hirschfeld S. **J Nutr** 1996 Oct;126(10 Suppl):2641S-2650S (123 ref.)

Contribution of growth hormone deficiency to the growth failure that follows bone marrow transplantation. Brauner R, et al. **J Pediatr** 1997 May;130(5):785–92

Sotos syndrome with septo-optic dysplasia. Büyükgebiz A, et al. **J Pediatr Endocrinol Metab** 1996 Jul-Aug;9(4):497–9

Neurodevelopmental side effects of bone marrow transplantation: two case illustrations of identical twins. McCabe MA, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr;19(2):145–50

More than 10 years' follow-up to total colonic aganglionosis--severe iron deficiency anemia and growth retardation. Ikawa H, et al. **J Pediatr Surg** 1997 Jan; 32(1):25–7

Effect of marginal zinc deficiency on human growth and development. Ploysangam A, et al. **J Trop Pediatr** 1997 Aug;43(4):192–8 (55 ref.)

Growth hormone secretion and serum insulin-like growth factor-I concentration in X-linked hypophosphatemic rickets before and after treatment. Soliman AT, et al. **J Trop Pediatr** 1997 Aug;43(4):236–41

Growth parameters, growth hormone (GH) response to clonidine and circulating insulin-like growth factor-I (IGF-I), free thyroxine (FT4) and cortisol concentrations in relation to glycaemic control in children with insulin-dependent diabetes mellitus. Soliman AT, et al. **J Trop Pediatr** 1996 Aug;42(4):228–32

Growth parameters and endocrine function in relation to echocardiographic parameters in children and adolescents with compensated rheumatic heart disease. Soliman AT, et al. **J Trop Pediatr** 1997 Feb;43(1):4–9

Serum and urinary amino acid levels in sickle cell disease. VanderJagt DJ, et al. **J Trop Pediatr** 1997 Aug;43(4):220–5

Pyelonephritis provokes growth retardation and apoptosis in infant rat renal cortex. Serlachius E, et al. **Kidney Int** 1997 Jun;51(6):1855–62

Stress-related growth failure [letter; comment] Wright C. **Lancet** 1996 Oct 19;348(9034):1104–5. Comment on: Lancet 1996 Aug 10;348(9024):353–8.

Growth retardation in children with chronic renal insufficiency [editorial] Fine RN. **Nephron** 1997;76(2):125–9 (45 ref.)

Problems in diagnosis of IBD in children. Büller HA. **Neth J Med** 1997 Feb;50(2):S8–11 (7 ref.)

Glucocorticoids and growth in asthmatic children. Kamada AK, et al. **Pediatr Allergy Immunol** 1995 Aug;6(3):145–54 (73 ref.)

Growth in the diabetic child. Connors MH. **Pediatr Clin North Am** 1997 Apr;44(2):301–6 (43 ref.)

Growth and neuroendocrine dysfunction following therapy

for childhood cancer. Sklar CA. **Pediatr Clin North Am** 1997 Apr;44(2):489–503 (64 ref.)

Growth hormone binding protein and free growth hormone in chronic renal failure. Baumann G. **Pediatr Nephrol** 1996 Jun;10(3):328–30 (32 ref.)

Early age-dependent growth impairment in chronic renal failure. European Study Group for Nutritional Treatment of Chronic Renal Failure in Childhood. Karlberg J, et al. **Pediatr Nephrol** 1996 Jun;10(3):283–7

Factors influencing the response to growth hormone in children with renal disease. Rees L, et al. **Pediatr Nephrol** 1996 Jun;10(3):337–9

Growth charts for prepubertal children with chronic renal failure due to congenital renal disorders. European Study Group for Nutritional Treatment of Chronic Renal Failure in Childhood. Schaefer F, et al. **Pediatr Nephrol** 1996 Jun; 10(3):288–93

Growth preservation after brief growth hormone therapy in chronic renal insufficiency. Warshaw BL, et al. **Pediatr Nephrol** 1997 Feb;11(1):82–3

Growth of growth hormone–treated and nontreated children before and after tethered spinal cord release. Rotenstein D, et al. **Pediatr Neurosurg** 1996;24(5):238–41

Chronic maternal undernutrition in the rat leads to delayed postnatal growth and elevated blood pressure of offspring. Woodall SM, et al. **Pediatr Res** 1996 Sep;40(3):438–43

Index of suspicion. Case 1. Rickets. Colson ER, et al. **Pediatr Rev** 1996 Sep;17(9):319–21

Anxiety and short stature [letter; comment] Cizza G, et al. **Pediatrics** 1997 Mar;99(3):500. Comment on: Pediatrics 1996 Jun;97(6 Pt 1):856–63.

Anxiety and short stature [letter; comment] Friedman EH. **Pediatrics** 1997 Mar;99(3):499–500; discussion 500. Comment on: Pediatrics 1996 Jun;97(6 Pt 1):856–63.

Growth deficiency: which children are at risk? Moore P. **Practitioner** 1996 Oct;240(1567):587–91 (6 ref.)

The struggle of weaning: factors determining breastfeeding duration in east Bhutan. Bøhler E, et al. **Soc Sci Med** 1996 Dec;43(12):1805–15

Malnutrition and growth abnormalities in children with beta thalassemia major. Tienboon P, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):356–61

[The epiphyseal plate in hemodialysis, peritoneal dialysis and following kidney transplantation] Fink B, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul–Aug;134(4):317–23 (Eng. Abstr.) **(Ger)**

[Renal dwarfism] Ito K, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):21–3 (14 ref.) **(Jpn)**

[Growth disturbances after A–O cancellous screw head–neck transfixation for slipped femoral epiphysis] Wojciechowski P, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):379–84 (Eng. Abstr.) **(Pol)**

[Risk factors of short stature in Chilean school children from rural areas of high social vulnerability] Amigo H, et al. **Arch Latinoam Nutr** 1995 Jun;45(2):97–102 (Eng. Abstr.) **(Spa)**

GENETICS

Growth hormone neurosecretory dysfunction associated with ring chromosome 18. Aritaki S, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):544–8

Effect of clonidine on the height of a child with glycogen storage disease type VI: a 13 year follow-up study. Asami T, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):524–8

Growth hormone insufficiency associated with haploinsufficiency at 18q23. Cody JD, et al. **Am J Med Genet** 1997 Sep 5;71(4):420–5

High resolution characterization of an interstitial deletion of less than 1.9 Mb at 4p16.3 associated with Wolf–Hirschhorn syndrome. Fang YY, et al. **Am J Med Genet** 1997 Sep 5; 71(4):453–7

Growth hormone deficiency associated in the 18q deletion syndrome. Ghidoni PD, et al. **Am J Med Genet** 1997 Mar 3;69(1):7–12

Kabuki syndrome is not caused by a microdeletion in the DiGeorge/velocardiofacial chromosomal region within 22q 11.2. Li M, et al. **Am J Med Genet** 1996 Oct 16; 65(2):101–3

Propositus with Weaver syndrome and his mildly-affected mother: implication of nontraditional inheritance? [letter] Nishimura G, et al. **Am J Med Genet** 1996 Oct 28; 65(3):249–51

Short stature, Robin sequence, cleft mandible, pre/postaxial hand anomalies, and clubfoot: another affected Brazilian patient born to consanguineous parents [letter] Richieri-Costa A, et al. **Am J Med Genet** 1997 Aug 8; 71(2):233–5

X-linked microcephaly, microphthalmia, microcornea, congenital cataract, hypogenitalism, mental deficiency, growth retardation, spasticity: possible new syndrome. Seemanová E, et al. **Am J Med Genet** 1996 Dec 11; 66(2):179–83

A complex five breakpoint intrachromosomal rearrangement ascertained through two recombinant offspring. Tuck-Muller CM, et al. **Am J Med Genet** 1996 May 17; 63(2):392–5

Brachymetacarpia V in familial short stature. Sükür M, et al. **Ann Hum Biol** 1997 Jul–Aug;24(4):371–5

Molecular basis of inherited growth hormone resistance in childhood. Amselem S, et al. **Baillieres Clin Endocrinol Metab** 1996 Jul;10(3):353–69 (63 ref.)

Four mutant alleles of the insulin receptor gene associated with genetic syndromes of extreme insulin resistance. Kadowaki H, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):516–20

Mammalian X ray sensitive mutants: a tool for the elucidation of the cellular response to ionizing radiation. Zdzienicka MZ. **Cancer Surv** 1996;28:281–93 (62 ref.)

The syndrome of hypoparathyroidism, severe growth failure, developmental delay and distinctive facies. al-Gazali LI, et al. **Clin Dysmorphol** 1997 Jul;6(3):233–7 (14 ref.)

Silver–Russell syndrome and exclusion of uniparental disomy. Ayala-Madrigal ML, et al. **Clin Genet** 1996 Dec; 50(6):494–7

Extending the overlap of three congenital overgrowth syndromes. Coppin B, et al. **Clin Genet** 1997 Jun; 51(6):375–8

Interstitial deletion of long arm of chromosome no. 5 with growth hormone deficiency—an emerging syndrome? Krishna J, et al. **Clin Genet** 1997 Jan;51(1):48–51 (3 ref.)

Abnormal skeletal growth in Kniest dysplasia caused by type II collagen mutations. Cole WG. **Clin Orthop** 1997 Aug; (341):162–9

Insulin resistance and growth retardation in mice lacking insulin receptor substrate-1 and identification of insulin receptor substrate-2. Kadowaki T, et al. **Diabet Med** 1996 Sep;13(9 Suppl 6):S103–8

A homozygous kinase-defective mutation in the insulin receptor gene in a patient with leprechaunism. Takahashi Y, et al. **Diabetologia** 1997 Apr;40(4):412–20

Detection of growth hormone gene defects by dideoxy fingerprinting (ddF). Miyata I, et al. **Endocr J** 1997 Feb; 44(1):149–54

Genomic imprinting in disorders of growth. Lindgren V. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):503–21 (110 ref.)

Human skin fibroblasts as a model of growth hormone (GH) action in GH receptor–positive Laron's syndrome. Freeth JS, et al. **Endocrinology** 1997 Jan;138(1):55–61

Dissociation of systemic GH–IGF–I axis from a genetic basis for short stature in African Pygmies. Dulloo AG, et al. **Eur J Clin Nutr** 1996 Jun;50(6):371–80

Mice with genetic gamma-glutamyl transpeptidase deficiency exhibit glutathionuria, severe growth failure, reduced life spans, and infertility. Harding CO, et al. **J Biol Chem** 1997 May 9;272(19):12560–7

Interleukin 6 causes growth impairment in transgenic mice through a decrease in insulin-like growth factor-I. A model for stunted growth in children with chronic inflammation. De Benedetti F, et al. **J Clin Invest** 1997 Feb 15; 99(4):643–50

Biologically inactive growth hormone caused by an amino acid substitution. Takahashi Y, et al. **J Clin Invest** 1997 Sep 1;100(5):1159–65

Autosomal dominant inheritance of Weaver syndrome. Fryer A, et al. **J Med Genet** 1997 May;34(5):418–9

A 3 1/2 year old girl with distal trisomy 19q defined by FISH. James C, et al. **J Med Genet** 1996 Sep;33(9):795–7

Xp pseudoautosomal gene haploinsufficiency and linear growth deficiency in three girls with chromosome Xp22;Yq11 translocation. Joseph M, et al. **J Med Genet** 1996 Nov;33(11):906–11

Large scale deletions in the GPC3 gene may account for a minority of cases of Simpson–Golabi–Behmel syndrome. Lindsay S, et al. **J Med Genet** 1997 Jun;34(6):480–3

No evidence for uniparental disomy as a common cause of Sotos syndrome. Smith M, et al. **J Med Genet** 1997 Jan; 34(1):10–2

Chromosome 3p23 break with ring formation and translocation of displaced 3p23—>pter segment to 6pter. Yip MY, et al. **J Med Genet** 1996 Sep;33(9):789–92

De novo terminal deletion of chromosome 7 [46,XX,del(7)(q35)] Lo BH, et al. **J Paediatr Child Health** 1996 Aug;32(4):347–9

Partial growth-hormone insensitivity: the role of growth-hormone receptor mutations in idiopathic short stature. Goddard AD, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S51–5

The spectrum of growth-hormone insensitivity. Parks JS, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S45–50 (20 ref.)

Interstitial deletion of the short arm of chromosome 10: report of a case and review of the literature. Kato Z, et al. **Jpn J Hum Genet** 1996 Sep;41(3):333–8 (14 ref.)

Mapping of the Simpson–Golabi–Behmel overgrowth syndrome gene (GPC3) to chromosome X in human and rat by fluorescence in situ hybridization. Shen T, et al. **Mamm Genome** 1997 Jan;8(1):72

Positional cloning of genes involved in the Beckwith–Wiedemann syndrome, hemihypertrophy, and associated childhood tumors. Mannens M, et al. **Med Pediatr Oncol** 1996 Nov;27(5):490–4 (9 ref.)

Role of genomic imprinting in Wilms' tumour and overgrowth disorders. Reeve AE. **Med Pediatr Oncol** 1996 Nov;27(5):470–5 (50 ref.)

Intrauterine growth retardation and postnatal growth failure associated with deletion of the insulin-like growth factor I gene [see comments] Woods KA, et al. **N Engl J Med** 1996 Oct 31;335(18):1363–7. Comment in: N Engl J Med 1996 Oct 31;335(18):1389–91.

Pseudoautosomal deletions encompassing a novel homeobox gene cause growth failure in idiopathic short stature and Turner syndrome [see comments] Rao E, et al. **Nat Genet** 1997 May;16(1):54–63. Comment in: Nat Genet 1997 May;16(1):3–4.

Growth hormone insensitivity. Rosenbloom AL, et al. **Pediatr Clin North Am** 1997 Apr;44(2):423–42 (65 ref.)

Molecular analysis of the insulin receptor gene for prenatal diagnosis of leprechaunism in two families. Desbois-Mouthon C, et al. **Prenat Diagn** 1997 Jul; 17(7):657–63

Phenotypic alterations in insulin-deficient mutant mice. Duvillié B, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5137–40

Roberts syndrome fibroblasts showing cisplatin hypersensitivity have normal host cell reactivation of cisplatin-treated adenovirus and normal capacity of cisplatin-treated cells for adenovirus DNA synthesis. Davis K, et al. **Somat Cell Mol Genet** 1996 Sep;22(5):393–402

[Parental genomic imprinting and its implications in growth] Battin J. **Arch Pediatr** 1997;4(2 Suppl 2):125s–130s (34 ref.) **(Fre)**

[Growth hormone resistance. Genetic defects and therapy in Laron syndrome and similar conditions] Vesterhus P. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):948–51 (Eng. Abstr.) **(Nor)**

HISTORY

The not-so-good old days: working with pituitary growth hormone in North America, 1956 to 1985. Frasier SD. **J Pediatr** 1997 Jul;131(1 Pt 2):S1–4

METABOLISM

Defective growth hormone secretion in children with pycnodysostosis and improved linear growth after growth hormone treatment. Soliman AT, et al. **Arch Dis Child** 1996 Sep;75(3):242–4

Regional differences in the distribution of gonadotropin-releasing hormone cells between rapidly growing and growth-restricted prepubertal female sheep. Tanson H, et al. **Endocrinology** 1997 Jan;138(1):230–6

Effect of growth hormone therapy on bone metabolism of growth hormone deficient children. Stamoyannou L, et al. **Eur J Pediatr** 1997 Aug;156(8):592–6

Evolving growth hormone deficiency in children with a subnormal secretion of growth hormone. Zadik Z, et al. **J Pediatr** 1997 Mar;130(3):481–4

Variants able to cause growth hormone deficiency syndrome are present within the disease-nil WE strain of lymphocytic choriomeningitis virus. Buesa-Gomez J, et al. **J Virol** 1996 Dec;70(12):8988–92

Effect of chronic metabolic acidosis on the growth hormone/IGF-1 endocrine axis: new cause of growth hormone insensitivity in humans. Brüngger M, et al. **Kidney Int** 1997 Jan;51(1):216–21

Severe resistance to insulin and insulin-like growth factor-I in cells from a patient with leprechaunism as a result of two mutations in the tyrosine kinase domain of the insulin receptor. Desbois-Mouthon C, et al. **Metabolism** 1996 Dec; 45(12):1493–500

Carbohydrate metabolism in children receiving growth hormone for 5 years. Chronic renal insufficiency compared with growth hormone deficiency, Turner syndrome, and idiopathic short stature. Genentech Collaborative Group. Saenger P, et al. **Pediatr Nephrol** 1996 Jun;10(3):261–3

[Evaluation of dietary vitamin A intake in children with and without growth retardation] Greneche MO, et al. **Arch Pediatr** 1996 Sep;3(9):847–53 (Eng. Abstr.) **(Fre)**

MICROBIOLOGY

Helicobacter pylori infection and growth delay in older children. Perri F, et al. **Arch Dis Child** 1997 Jul;77(1):46–9

MORTALITY

[Are small and thin people condemned to an early death? Scotland Yard inquiry (editorial)] Rey J. **Arch Pediatr** 1997 Apr;4(4):299–304 (48 ref.) **(Fre)**

PATHOLOGY

Craniotubular dysplasia with severe postnatal growth retardation, mental retardation, ectodermal dysplasia, and loose skin: Lenz–Majewski–like syndrome. Nishimura G, et al. **Am J Med Genet** 1997 Jul 11;71(1):87–92

Brachymetacarpia V in familial short stature. Sükür M, et al. **Ann Hum Biol** 1997 Jul–Aug;24(4):371–5

Marked restoration of density and total number of mature (knob-bearing) olfactory receptor neurons in rats recovering from early hypothyroid-induced growth retardation. Paternostro MA, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):173–83

Two brothers with deafness, femoral epiphyseal dysplasia, short stature and developmental delay. Chitty LS, et al. **Clin Dysmorphol** 1996 Jan;5(1):17–25

A new familial short stature syndrome: Brussels type. Mievis C, et al. **Clin Dysmorphol** 1996 Jan;5(1):9–16

Desensitization from long-term intranasal treatment with hexarelin does not interfere with the biological effects of this growth hormone-releasing peptide in short children. Klinger B, et al. **Eur J Endocrinol** 1996 Jun;134(6):716–9

Further delineation of Nevo syndrome. al-Gazali LI, et al. **J Med Genet** 1997 May;34(5):366–70

[Definitive body height in constitutional retardation of

growth and puberty] Salerno M, et al. **Arch Pediatr** 1996 Sep;3(9):866–9 (Eng. Abstr.) **(Fre)**

PHYSIOPATHOLOGY

Insulin like growth factors and their importance in pediatrics. Philipps AF. **Acta Paediatr Sin** 1996 Jan–Feb;37(1):1–10 (94 ref.)

Central precocious puberty in Klinefelter syndrome: a case report with longitudinal follow-up of growth pattern. Bertelloni S, et al. **Am J Med Genet** 1996 Oct 2;65(1):52–5

Novel findings in a patient with Weaver or a Weaver–like syndrome. Scarano G, et al. **Am J Med Genet** 1996 May 17;63(2):378–81

Height and weight achievement in cleft lip and palate [letter] Azcona C, et al. **Arch Dis Child** 1997 Aug;77(2):187–8

Spontaneous growth in idiopathic short stature. European Study Group. Rekers-Mombarg LT, et al. **Arch Dis Child** 1996 Sep;75(3):175–80

Can provocative growth hormone testing predict the response to recombinant human growth hormone (rhGH) treatment? Greco M, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:38–40

Dysmature EEG pattern in EEGs of preterm infants with cognitive impairment: maturation arrest caused by prolonged mild CNS depression. Hayakawa F, et al. **Brain Dev** 1997 Mar;19(2):122–5

Normal growth hormone secretion in growth hormone insufficient children retested after completion of linear growth. Wacharasindhu S, et al. **Clin Endocrinol (Oxf)** 1996 Nov;45(5):553–6

Section III other hormonal causes. Sotos JF. **Clin Pediatr (Phila)** 1996 Dec;35(12):637–48 (35 ref.)

Growth, short stature, and the use of growth hormone: considerations for the practicing pediatrician—an update. Schwartz ID, et al. **Curr Probl Pediatr** 1997 Jan;27(1):14–40 (177 ref.)

The growth without growth hormone syndrome. Geffner ME. **Endocrinol Metab Clin North Am** 1996 Sep; 25(3):649–63 (90 ref.)

The mammalian cell cycle in normal and abnormal growth. Orlowski CC, et al. **Endocrinol Metab Clin North Am** 1996 Sep;25(3):491–502 (68 ref.)

Increased neutrophil insulin–like growth factor–I (IGF–I) receptor expression and IGF–I–induced functional capacity in patients with untreated Laron syndrome [see comments] Bjerknes R, et al. **Eur J Endocrinol** 1997 Jan;136(1):92–5 . Comment in: Eur J Endocrinol 1997 Jan;136(1):33–4.

Differential growth and maturation in idiopathic growth–hormone–deficient children. Cantu G, et al. **Eur J Orthod** 1997 Apr;19(2):131–9

Total energy expenditure in infants with bronchopulmonary dysplasia is associated with respiratory status. de Meer K, et al. **Eur J Pediatr** 1997 Apr;156(4):299–304

Growth retardation in constitutionally short children is related both to low serum levels of insulin–like growth factor–I and to its reduced bioavailability. Lindgren BF, et al. **Growth Regul** 1996 Sep;6(3):158–64

Circadian variation of growth hormone secretion in normal prepubertal children. Comparison to constitutional growth delay and growth hormone deficiency. Hermida RC, et al. **J Endocrinol Invest** 1996 May;19(5):273–83

Papers presented at International Novo Nordisk Symposium on Growth. Santiago de Compostela, Spain, October 1995. **J Pediatr Endocrinol Metab** 1996 Jun;9 Suppl 3:233–374

Reproducibility and comparison of growth hormone secretion tests. Ropelato MG, et al. **J Pediatr Endocrinol Metab** 1996 Jan–Feb;9(1):41–50

Body growth in primary de Toni–Debré–Fanconi syndrome. Haffner D, et al. **Pediatr Nephrol** 1997 Feb;11(1):40–5

Insulin–like growth factor binding proteins as growth inhibitors in children with chronic renal failure. Powell DR, et al. **Pediatr Nephrol** 1996 Jun;10(3):343–7 (45 ref.)

Neurophysiological assessment of brain function and maturation. II. A measure of brain dysmaturity in healthy preterm neonates. Scher MS. **Pediatr Neurol** 1997 May; 16(4):287–95 (36 ref.)

Growth retardation in non–steroid treated juvenile rheumatoid arthritis. Polito C, et al. **Scand J Rheumatol** 1997;26(2):99–103

PREVENTION & CONTROL

Evaluation of growth monitoring programme in children in Kinshasa. Mapatano MA, et al. **East Afr Med J** 1997 Feb; 74(2):96–9

Status of growth monitoring activities in selected ICDS projects of Rajasthan. Kapil U, et al. **Indian Pediatr** 1996 Nov;33(11):949–52

Using lot quality assurance sampling to assess measurements for growth monitoring in a developing country's primary health care system. Valadez JJ, et al. **Int J Epidemiol** 1996 Apr;25(2):381–7

Nutrition assessment in children with sickle cell disease. Williams R, et al. **J Assoc Acad Minor Phys** 1997;8(3):44–8

The growth of children for two generations at an Australian aboriginal community. Alsop–Shields L. **J Pediatr Nurs** 1996 Dec;11(6):402–8

How do we treat patients with inflammatory bowel disease in adolescence? Taminiau JA, et al. **Neth J Med** 1996 Feb; 48(2):57–9 (6 ref.)

Neonatal Bartter syndrome—use of indomethacin in the newborn period and prevention of growth failure. Mackie FE, et al. **Pediatr Nephrol** 1996 Dec;10(6):756–8

PSYCHOLOGY

Measuring quality of life in adults with growth hormone deficiency [letter; comment] McKenna S, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):507–8. Comment on: Clin Endocrinol (Oxf) 1996 Apr;44(4):403–11.

Mothers' beliefs about the causes of infant growth deficiency: is there attributional bias? Sturm LA, et al. **J Pediatr Psychol** 1997 Jun;22(3):329–44

RADIOGRAPHY

Dyggve–Melchior–Clausen syndrome without mental retardation (Smith–McCort dysplasia): morphological findings in the growth plate of the iliac crest. Nakamura K, et al. **Am J Med Genet** 1997 Oct 3;72(1):11–7

GAPO syndrome (Radiographic clues to early diagnosis). Baxova A, et al. **Radiol Med (Torino)** 1997 Mar; 93(3):289–91

SURGERY

Bilateral epiphysiodesis around the knee as treatment for excessive height in boys. Plaschaert VF, et al. **J Pediatr Orthop B** 1997 Jul;6(3):212–4

THERAPY

Orthotopic liver transplantation reverses the adverse nutritional changes of end–stage liver disease in children. Holt RI, et al. **Am J Clin Nutr** 1997 Feb;65(2):534–42

Short stature. Underwood LE. **Curr Ther Endocrinol Metab** 1997;6:66–8 (4 ref.)

Growth factor treatment of disorders of skeletal growth. Trippel SB, et al. **Instr Course Lect** 1997;46:477–82 (37 ref.)

URINE

Urinary IGF and IGF binding protein–3 in children with disordered growth. The North West Paediatric Endocrine Group. Gill MS, et al. **Clin Endocrinol (Oxf)** 1997 Apr; 46(4):483–92

Urinary growth hormone excretion: results of a multicenter study in France [published erratum appears in Horm Res 1997;48(1):22] Georges P, et al. **Horm Res** 1997;47(1):30–7

VETERINARY

Attempts to reproduce a runting/stunting–type syndrome using infectious agents isolated from affected Mississippi broilers. Montgomery RD, et al. **Avian Dis** 1997 Jan–Mar; 41(1):80–92

Endocrine, metabolic and hematological changes associated with reduced growth performance during chronic pneumonia in calves: a case study. Blum JW, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Apr;103(4):115–6

Avian influenza A virus induced stunting syndrome–like disease in chicks. Silvano FD, et al. **J Vet Med Sci** 1997 Mar;59(3):205–7

Changes in bone metabolism and epiphysial growth plate in bovine Hyena disease induced by administration of vitamin AD3E premix or Vitamin A. Takaki H, et al. **J Vet Med Sci** 1996 May;58(5):407–12

Molecular markers near the mouse brachymorphic (bm) gene, which affects connective tissues and bleeding time. Rusiniak ME, et al. **Mamm Genome** 1996 Feb;7(2):98–102

Stunting syndrome in broilers: effect of glucose or maltose supplementation on digestive organs, intestinal disaccharidases, and some blood metabolites. Shapiro F, et al. **Poult Sci** 1997 Feb;76(2):369–80

Stillbirth/perinatal weak calf syndrome: radiographic examination for growth retardation lines. Smyth JA, et al. **Vet Rec** 1996 Dec 14;139(24):599–600

Re–emergence of a stunting syndrome in broiler chickens [letter] Wood AM, et al. **Vet Rec** 1997 Apr 26;140(17):463

[Insulin–like growth factor I and insulin–like growth factor binding protein 3 in a steer with growth retardation] Deinhofer M, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Apr;103(4):130–1 (Eng. Abstr.) **(Ger)**

[Animal nutrition in veterinary medicine—actual case reports. Nutritionally related disturbences in bone development in emus and rheas] Wolf P, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Dec;103(12):519–22 (Eng. Abstr.) **(Ger)**

VIROLOGY

A single amino acid change in the glycoprotein of lymphocytic choriomeningitis virus is associated with the ability to cause growth hormone deficiency syndrome. Teng MN, et al. **J Virol** 1996 Dec;70(12):8438–43

GROWTH FACTOR RECEPTORS see **RECEPTORS, GROWTH FACTOR**

GROWTH FACTORS see **GROWTH SUBSTANCES**

GROWTH HORMONE, HUMAN METHIONYL see **SOMATREM**

GROWTH HORMONE, PITUITARY see **SOMATOTROPIN**

GROWTH HORMONE RECEPTORS see **RECEPTORS, SOMATOTROPIN**

GROWTH HORMONE-RELEASING FACTOR see **SOMATOTROPIN-RELEASING HORMONE**

GROWTH HORMONE-RELEASING FACTOR(1–29)AMIDE see **SERMORELIN**

GROWTH HORMONE-RELEASING FACTOR 44 see **SOMATOTROPIN-RELEASING HORMONE**

GROWTH HORMONE-RELEASING HORMONE see **SOMATOTROPIN-RELEASING HORMONE**

GROWTH HORMONES PITUITARY, RECOMBINANT see **SOMATOTROPINS, RECOMBINANT**

GROWTH INHIBITORS

A cyclin–dependent kinase inhibitor, Dacapo, is necessary for timely exit from the cell cycle during Drosophila embryogenesis. de Nooij JC, et al. **Cell** 1996 Dec 27; 87(7):1237–47

Structure of the gene encoding the human differentiation–stimulating factor/leukemia inhibitory factor receptor. Tomida M, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):201–5

Gangliosides inhibit growth factor–stimulated neurite outgrowth in SH–SY5Y human neuroblastoma cells. Hynds DL, et al. **J Neurosci Res** 1997 Mar 15;47(6):617–25

Suppression of pancreatic cancer by the dominant negative ras mutant, N116Y. Shichinohe T, et al. **J Surg Res** 1996 Dec;66(2):125–30

p130 and p107 use a conserved domain to inhibit cellular cyclin–dependent kinase activity. Woo MS, et al. **Mol Cell Biol** 1997 Jul;17(7):3566–79

Heart–type fatty acid binding protein – involvement in growth inhibition and differentiation. Börchers T, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):77–84 (40 ref.)

[Ciliary neurotrophic factor and leukemia inhibitory factor] Matsuoka I. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):496–503 (51 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Leukemia inhibitory factor produces hypercalcemia in rats without altering bone histomorphometry of the tibia. Turner RT, et al. **Calcif Tissue Int** 1996 Oct;59(4):301–4

[Filtering glaucoma operations. Can growth factor blockers replace antimetabolites?] Mietz H. **Ophthalmologe** 1997 Mar;94(3):242–7 (64 ref.) **(Ger)**

ANALYSIS

Quantitative assessment of cytokines (GRO alpha and IL–10) in human seminal plasma during genitourinary inflammation. Rajasekaran M, et al. **Am J Reprod Immunol** 1996 Aug;36(2):90–5

Detection of oncostatin M in synovial fluid from patients with rheumatoid arthritis. Hui W, et al. **Ann Rheum Dis** 1997 Mar;56(3):184–7

Leukaemia inhibitory factor (LIF) production in pleural effusions: comparison with production of IL–4, IL–8, IL–10 and macrophage–colony stimulating factor (M–CSF). Heymann D, et al. **Cytokine** 1996 May;8(5):410–6

A monoclonal antibody based elisa for quantitation of human leukaemia inhibitory factor. Taupin JL, et al. **Cytokine** 1997 Feb;9(2):112–8

The influence of interleukin–6 on the growth of human esophageal cancer cell lines. Oka M, et al. **J Interferon Cytokine Res** 1996 Dec;16(12):1001–6

Partial purification from bovine follicular fluid of a factor of low molecular mass with inhibitory effects on the proliferation of bovine granulosa cells in vitro and on rat follicular development in vivo. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):185–91

Growth–regulated alpha expression in the peritoneal environment with endometriosis. Oral E, et al. **Obstet Gynecol** 1996 Dec;88(6):1050–6

ANTAGONISTS & INHIBITORS

Modulation of the inhibitory substrate properties of oligodendrocytes by platelet–derived growth factor. Lang DM, et al. **J Neurosci** 1996 Sep 15;16(18):5741–8

Inactivation of pRB–related proteins p130 and p107 mediated by the J domain of simian virus 40 large T antigen. Stubdal H, et al. **Mol Cell Biol** 1997 Sep;17(9):4979–90

Recent evolutionary acquisition of alternative pre–mRNA splicing and 3' processing regulations induced by intronic B2 SINE insertion. Michel D, et al. **Nucleic Acids Res** 1997 Aug 15;25(16):3228–34

BIOSYNTHESIS

Interleukin 13 inhibits macrophage inflammatory protein–1 alpha production from human alveolar macrophages and monocytes. Berkman N, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):382–9

Type II protein kinase A up–regulation is sufficient to induce growth inhibition in SK–N–SH human neuroblastoma cells. Kim SN, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):469–73

Human decidual cell biosynthesis of leukemia inhibitory factor: regulation by decidual cytokines and steroid hormones. Sawai K, et al. **Biol Reprod** 1997 May; 56(5):1274–80

Increased expression of cyclin D1 in a murine mammary epithelial cell line induces p27kip1, inhibits growth, and enhances apoptosis. Han EK, et al. **Cell Growth Differ** 1996 Jun;7(6):699–710

Leukaemia inhibitory factor: induction in the early phase of allergic contact dermatitis. Szepietowski JC, et al. **Contact Dermatitis** 1997 Jan;36(1):21–5

The nuclear receptor SF–1 mediates sexually dimorphic expression of Mullerian Inhibiting Substance, in vivo. Giuili G, et al. **Development** 1997 May;124(9):1799–807

Influence of age on the production of interleukin–8–like chemokine (GRO/CINC–1) in rat nasal mucosa. Himi T, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):101–4

Activation of acidic sphingomyelinase and protein kinase C zeta is required for IL–1 induction of LIF mRNA in a Schwann cell line. Carlson CD, et al. **Glia** 1996 Sep; 18(1):49–58

Interleukin–1 beta increases leukemia inhibitory factor mRNA levels through transient stimulation of transcription rate. Carlson CD, et al. **Glia** 1996 Oct;18(2):141–51

The production of leukaemia inhibitory factor by human endometrium: presence in uterine flushings and production by cells in culture. Laird SM, et al. **Hum Reprod** 1997 Mar; 12(3):569–74

In vivo demonstration that parathyroid hormone and parathyroid hormone–related protein stimulate expression by osteoblasts of interleukin–6 and leukemia inhibitory factor. Pollock JH, et al. **J Bone Miner Res** 1996 Jun; 11(6):754–9

Pituitary–directed leukemia inhibitory factor transgene forms Rathke's cleft cysts and impairs adult pituitary function. A model for human pituitary Rathke's cysts. Akita S, et al. **J Clin Invest** 1997 May 15;99(10):2462–9

TGF–beta differentially modulates epidermal growth factor–mediated increases in leukemia–inhibitory factor, IL–6, IL–1 alpha, and IL–1 beta in human thymic epithelial cells. Schluns KS, et al. **J Immunol** 1997 Mar 15; 158(6):2704–12

Interleukin–1beta is differentially expressed by human dermal papilla cells in response to PKC activation and is a potent inhibitor of human hair follicle growth in organ culture. Xiong Y, et al. **J Interferon Cytokine Res** 1997 Mar; 17(3):151–7

Expression of interleukin–6 receptors and NF–kappa B in AIDS–related Kaposi sarcoma cell strains. Bailer RT, et al. **Lymphology** 1997 Jun;30(2):63–76

Complementary tissue–specific expression of LIF and LIF–receptor mRNAs in early mouse embryogenesis. Nichols J, et al. **Mech Dev** 1996 Jul;57(2):123–31

Leukemia inhibitory factor and interleukin–6 are produced by diseased and regenerating skeletal muscle. Kurek JB, et al. **Muscle Nerve** 1996 Oct;19(10):1291–301

Leukemia inhibitory factor (LIF) mRNA–expressing neuronal subpopulations in adult rat basal forebrain. Lemke R, et al. **Neurosci Lett** 1997 Jun 20;229(1):69–71

Bioactivation of Müllerian inhibiting substance during gonadal development by a kex2/subtilisin–like endoprotease. Nachtigal MW, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7711–6

Eukaryotic expression systems: a comparison. Geisse S, et al. **Protein Expr Purif** 1996 Nov;8(3):271–82 (111 ref.)

BLOOD

AcSDKP plasma concentrations in patients with solid tumours: comparison of two chemotherapeutic regimens. Comte L, et al. **Cancer Lett** 1997 Jan 15;112(1):1–4

Sepsis and serum cytokine concentrations. Damas P, et al. **Crit Care Med** 1997 Mar;25(3):405–12

Development of enzymo–immunoassays (EIA) for macrophage colony–stimulating factor (M–CSF) and leukaemia inhibitory factor (LIF) by using the same capture and signal generating polyclonal antibody. Fixe P, et al. **Cytokine** 1996 Jul;8(7):586–91

Thyroid cell proliferation–inhibiting activity in serum of patients with chronic renal failure on hemodialysis. Nishikawa M, et al. **Endocr J** 1996 Aug;43(4):441–5

Leukemia inhibitory factor concentrations in the bone marrow plasma of healthy subjects and patients with hematologic malignancies. Lorgeot V, et al. **Eur Cytokine Netw** 1997 Mar;8(1):57–9

Immunoreactive inhibin, müllerian inhibitory substance, and activin as biochemical markers for juvenile granulosa cell tumors. Silverman LA, et al. **J Pediatr** 1996 Dec; 129(6):918–21 (20 ref.)

Measurements of serum Müllerian inhibiting substance in the evaluation of children with nonpalpable gonads. Elder JS. **J Urol** 1997 Oct;158(4):1637

Serum levels of müllerian inhibiting substance in preterm and term male neonates [see comments] Schwindt B, et al. **J Urol** 1997 Aug;158(2):610–2. Comment in: J Urol 1997 Aug;158(2):613–4.

Concentrations of serum leukemia inhibitory factor (LIF) in patients with hematologic malignancies [letter] Lorgeot V, et al. **Leukemia** 1997 Feb;11(2):311–2

Serum müllerian inhibiting substance assay—a new diagnostic test for disorders of gonadal development [editorial; comment] Forest MG. **N Engl J Med** 1997 May 22; 336(21):1519–21. Comment on: N Engl J Med 1997 May 22;336(21):1480–6.

Measurements of serum müllerian inhibiting substance in the evaluation of children with nonpalpable gonads [see comments] Lee MM, et al. **N Engl J Med** 1997 May 22; 336(21):1480–6. Comment in: N Engl J Med 1997 May 22;336(21):1519–21.

CHEMISTRY

Evidence for the formation of a heterotrimeric complex of leukaemia inhibitory factor with its receptor subunits in solution. Zhang JG, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):693–700

Solution dynamics and secondary structure of murine leukemia inhibitory factor: a four–helix cytokine with a rigid CD loop. Purvis DH, et al. **Biochemistry** 1997 Aug 19;36(33):10146–54

Molecular cloning and sequence analysis of the cDNA for the mouse counterpart to adult hamster liver purified growth inhibitory factor. Hashimoto C, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):205–8

Identification and characterization of metallothionein III (growth inhibitory factor) from porcine brain. Chen CF, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Sep;115(1):27–32

Resonance assignments, secondary structure and topology of leukaemia inhibitory factor in solution. Hinds MG, et al. **J Biomol NMR** 1997 Feb;9(2):113–26

Parenteral formulation of Flavopiridol (NSC–649890). Dannenfelser RM, et al. **PDA J Pharm Sci Technol** 1996 Nov–Dec;50(6):356–9

GENETICS

Modulation of leukemia inhibitory factor gene expression and protein biosynthesis in the human fallopian tube. Keltz MD, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1611–9

Genetic characterization of the bovine leukaemia inhibitory factor (LIF) gene: isolation and sequencing, chromosome assignment and microsatellite analysis. Piedrahita JA, et al. **Anim Genet** 1997 Feb;28(1):14–20

Isolation and expression of rat interferon beta gene and growth–inhibitory effect of its expression on rat glioma cells. Yokoyama S, et al. **Biochem Biophys Res Commun** 1997 Mar 27;232(3):698–701

Silencing of the mammary–derived growth inhibitor (MDGI) gene in breast neoplasms is associated with epigenetic changes. Huynh H, et al. **Cancer Res** 1996 Nov 1; 56(21):4865–70

Induction of cell growth regulatory genes by p53. Madden SL, et al. **Cancer Res** 1996 Dec 1;56(23):5384–90

Dacapo, a cyclin–dependent kinase inhibitor, stops cell proliferation during Drosophila development. Lane ME, et al. **Cell** 1996 Dec 27;87(7):1225–35

Clinical aspects and molecular genetics of the persistent müllerian duct syndrome. Josso N, et al. **Clin Endocrinol (Oxf)** 1997 Aug;47(2):137–44 (44 ref.)

Cryptic physiological trophic support of motoneurons by LIF revealed by double gene targeting of CNTF and LIF. Sendtner M, et al. **Curr Biol** 1996 Jun 1;6(6):686–94

Cellular localization and chromosome mapping of a novel candidate tumor suppressor gene (ING1). Garkavtsev I, et al. **Cytogenet Cell Genet** 1997;76(3–4):176–8

Growth factor expression by human oviduct and buffalo rat liver coculture cells. Barmat LI, et al. **Fertil Steril** 1997 Apr;67(4):775–9

Molecular cloning of an avian anti–Müllerian hormone homologue. Neeper M, et al. **Gene** 1996 Oct 17; 176(1–2):203–9

Leukaemia inhibitory factor expression in human follicular fluid and ovarian cells. Arici A, et al. **Hum Reprod** 1997 Jun;12(6):1233–9

Differential induction of GRO alpha gene expression in human corneal epithelial cells and keratocytes exposed to proinflammatory cytokines. Cubitt CL, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1149–58

Growth–inhibitory activity and downregulation of the class II tumor–suppressor gene H–rev107 in tumor cell lines and experimental tumors. Sers C, et al. **J Cell Biol** 1997 Feb 24;136(4):935–44

Expression of growth inhibitory factor mRNA after focal ischemia in rat brain. Yuguchi T, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):745–52

Cell cycle inhibition preserves endothelial function in genetically engineered rabbit vein grafts. Mann MJ, et al. **J Clin Invest** 1997 Mar 15;99(6):1295–301

Interleukin–1 involvement in the induction of leukemia inhibitory factor mRNA expression following axotomy of sympathetic ganglia. Carlson CD, et al. **J Neuroimmunol** 1996 Nov;70(2):181–90

Leukaemia inhibitory factor mRNA is expressed in the brains of patients with subacute sclerosing panencephalitis. McQuaid S, et al. **J Neuroimmunol** 1997 Jul;77(1):57–62

Progestin–dependent stimulation of the human leukemia inhibitory factor promoter in SKUT–1B uterine tumor cells. Bamberger AM, et al. **J Reprod Immunol** 1997 Jul; 33(3):189–201

Extension of the replicative life span of human diploid fibroblasts by inhibition of the p33ING1 candidate tumor suppressor. Garkavtsev I, et al. **Mol Cell Biol** 1997 Apr; 17(4):2014–9

JAK2 is required for induction of the murine DUB–1 gene. Jaster R, et al. **Mol Cell Biol** 1997 Jun;17(6):3364–72

Transcriptional regulation of the human leukemia inhibitory factor gene: modulation by glucocorticoids and estradiol. Bamberger AM, et al. **Mol Cell Endocrinol** 1997 Mar 14; 127(1):71–9

Introduction of precise alterations into the mouse genome with high efficiency by stable tag–exchange gene targeting: implications for gene targeting in ES cells. Whyatt LM, et al. **Nucleic Acids Res** 1997 Jun 15;25(12):2381–8

The melanoma differentiation associated gene mda–7 suppresses cancer cell growth. Jiang H, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9160–5

[Inhibitory effect of antisense LIF oligonucleotide on the outgrowth of human medulloblastoma cells] Liu J, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):132–4 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

The growth arresting effect of human immunoglobulin for intravenous use is mediated by antibodies recognizing membrane glycolipids. Vuist WM, et al. **J Clin Immunol** 1997 Jul;17(4):301–10

Th1 development of naive CD4+ T cells is inhibited by co–activation with anti–CD4 monoclonal antibodies. Goedert S, et al. **J Immunol** 1996 Jul 15;157(2):566–73

Bispecific humanized anti–IL–2 receptor alpha beta antibodies inhibitory for both IL–2– and IL–15–mediated proliferation. Pilson RS, et al. **J Immunol** 1997 Aug 1; 159(3):1543–56

Safety and kinetic properties of a humanized antibody to human interleukin–6 receptor in healthy non–human primates. Shinkura H, et al. **Toxicology** 1997 Oct 19; 122(3):163–70

ISOLATION & PURIFICATION

Phytogrowth–inhibitory and antifungal constituents of Helianthella quinquenervis. Castañeda P, et al. **J Nat Prod** 1996 Mar;59(3):323–6

Isolation and N–terminal sequence of multiple forms of granulins in human urine. Sparro G, et al. **Protein Expr Purif** 1997 Jul;10(2):169–74

Isolation and characterization of maturation inhibiting compound in bovine follicular fluid. Dostál J, et al. **Reprod Nutr Dev** 1996;36(6):681–90

METABOLISM

Modulation of leukemia inhibitory factor gene expression and protein biosynthesis in the human fallopian tube. Keltz MD, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1611–9

Presence of mRNAs encoding the soluble D–factor/LIF receptor in human choriocarcinoma cells and production of the soluble receptor. Tomida M. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):427–31

Catabolism of the hemoregulatory peptide N–Acetyl–Ser–Asp–Lys–Pro: a new insight into the physiological role of the angiotensin–I–converting enzyme N–active site. Rousseau–Plasse A, et al. **Bioorg Med Chem** 1996 Jul;4(7):1113–9

Oncostatin M and leukemia inhibitory factor do not use the same functional receptor in mice. Ichihara M, et al. **Blood** 1997 Jul 1;90(1):165–73

Localization of leukaemia inhibitory factor to airway epithelium and its amplification of contractile responses to tachykinins. Knight D, et al. **Br J Pharmacol** 1997 Mar; 120(5):883–91

Subcellular localization of growth inhibitory factor in rat brain: light and electron microscopic immunohistochemical studies. Yamada M, et al. **Brain Res** 1996 Oct 7; 735(2):257–64

Antitumor activity of the novel human breast cancer growth inhibitor, mammary–derived growth inhibitor–related gene, MRG. Shi YE, et al. **Cancer Res** 1997 Aug 1; 57(15):3084–91

In vitro and in vivo growth inhibition of murine melanoma K–1735 cell by a dominant negative mutant alpha subunit of the Gi2 protein. Hermouet S, et al. **Cell Signal** 1996 Mar;8(3):159–66

Leukemia inhibitory factor (LIF) and oncastsin M (OSM) high affinity binding require additional receptor subunits besides GP130 and GP190. Heymann D, et al. **Cytokine** 1996 Mar;8(3):197–205

High levels of leukaemia inhibitory factor in ARDS. Jorens PG, et al. **Cytokine** 1996 Nov;8(11):873–6

Leukaemia inhibitory factor is retrogradely transported by a distinct population of adult rat sensory neurons: co–localization with trkA and other neurochemical markers. Thompson SW, et al. **Eur J Neurosci** 1997 Jun; 9(6):1244–51

Leukemia inhibitory factor is expressed in astrocytes following cortical brain injury. Banner LR, et al. **Exp Neurol** 1997 Sep;147(1):1–9

Müllerian–inhibiting substance in follicular fluid and serum: a comparison of patients with tubal factor infertility, polycystic ovary syndrome, and endometriosis. Fallat ME, et al. **Fertil Steril** 1997 May;67(5):962–5

Leukaemia inhibitory factor expression in human follicular fluid and ovarian cells. Arici A, et al. **Hum Reprod** 1997 Jun;12(6):1233–9

The effect of various doses of mifepristone on endometrial leukaemia inhibitory factor expression in the midluteal phase—an immunohistochemical study. Danielsson KG, et al. **Hum Reprod** 1997 Jun;12(6):1293–7

The presence of müllerian inhibiting substance in human seminal plasma. Fallat ME, et al. **Hum Reprod** 1996 Oct; 11(10):2165–9

Immunohistochemical detection of immature Sertoli cell markers in testicular tissue of infertile adult men: a preliminary study. Steger K, et al. **Int J Androl** 1996 Apr; 19(2):122–8

Stromal cells from human benign prostate hyperplasia produce a growth-inhibitory factor for LNCaP prostate cancer cells, identified as interleukin-6. Degeorges A, et al. **Int J Cancer** 1996 Oct 9;68(2):207–14

Growth hormone, interferon-gamma, and leukemia inhibitory factor utilize insulin receptor substrate-2 in intracellular signaling. Argetsinger LS, et al. **J Biol Chem** 1996 Nov 15;271(46):29415–21

Cell anchorage regulates apoptosis through the retinoblastoma tumor suppressor/E2F pathway. Day ML, et al. **J Biol Chem** 1997 Mar 28;272(13):8125–8

Regulation and expression of retinoblastoma proteins p107 and p130 during 3T3-L1 adipocyte differentiation. Richon VM, et al. **J Biol Chem** 1997 Apr 11;272(15):10117–24

Ontogeny of anti-müllerian hormone, 3 beta-hydroxysteroid dehydrogenase and androgen receptor expression during ovine total gonadal development. Sweeney T, et al. **J Endocrinol** 1997 Apr;153(1):27–32

Identification of a neuronal cell surface receptor for a growth inhibitory chondroitin sulfate proteoglycan (NG2). Dou CL, et al. **J Neurochem** 1997 Mar;68(3):1021–30

Leukaemia inhibitory factor in endometrium during the oestrous cycle, early pregnancy and in ovariectomized steroid-treated ewes. Vogiagis D, et al. **J Reprod Fertil** 1997 Mar;109(2):279–88

Concentrations and origins of soluble interleukin 6 receptor-alpha in serum and synovial fluid. Desgeorges A, et al. **J Rheumatol** 1997 Aug;24(8):1510–6

Inhibition of mitosis and microtubule function through direct tubulin binding by a novel antiproliferative naphthopyran LY290181. Wood DL, et al. **Mol Pharmacol** 1997 Sep; 52(3):437–44

Analysis of the role of Amh and Fra1 in the Sry regulatory pathway. Jeske YW, et al. **Mol Reprod Dev** 1996 Jun; 44(2):153–8

Differential hormonal regulation of leukemia inhibitory factor (LIF) in rabbit and mouse uterus. Yang ZM, et al. **Mol Reprod Dev** 1996 Apr;43(4):470–6

Effect of stress on mouse and rat brain metallothionein I and III mRNA levels. Belloso E, et al. **Neuroendocrinology** 1996 Dec;64(6):430–9

Neuronal expression of leukemia inhibitory factor (LIF) in the rat brain. Lemke R, et al. **Neurosci Lett** 1996 Sep 13; 215(3):205–8

PHARMACOKINETICS

The role of leukemia inhibitory factor in skeletal muscle regeneration. Kurek JB, et al. **Muscle Nerve** 1997 Jul; 20(7):815–22

Reversible association of the cytokines MIP-1 alpha and MIP-1 beta with the endothelia of the blood–brain barrier. Banks WA, et al. **Neurosci Lett** 1996 Mar 1;205(3):202–6

PHARMACOLOGY

A novel endogenous mediator of cutaneous inflammation: leukemia inhibitory factor. McKenzie RC, et al. **Acta Derm Venereol** 1996 Mar;76(2):111–4

Growth inhibitory effects of antifolates against an adriamycin-resistant human small cell lung cancer cell line. Matsuo K, et al. **Acta Med Okayama** 1997 Jun;51(3):121–7

Regeneration of rat corneal epithelium is delayed by the inhibitory epidermal pentapeptide (EPP). Wang XL, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):361–3

Effect of ethanol on glycerolipid and fatty acid metabolism in Hep G2 human-hepatoma cells. Angeletti C, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):57–69

The beta-core fragment of human chorionic gonadotrophin inhibits growth of Kaposi's sarcoma-derived cells and a new immortalized Kaposi's sarcoma cell line. Albini A, et al. **AIDS** 1997 May;11(6):713–21

Parathyroid hormone-related protein, an autocrine growth inhibitor of alveolar type II cells. Hastings RH, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L394–9

Genistein potentiates wild-type and delta F508-CFTR channel activity. Hwang TC, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 1):C988–98

LIF and CNTF, which share the gp130 transduction system, stimulate hepatic lipid metabolism in rats. Nonogaki K, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E521–8

Inhibitory effects of telomere-mimic phosphorothioate oligonucleotides on various human tumor cells in vitro. Ohnuma T, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2455–8

IL-6 signals inhibition of cell adhesion in melanoma A375-C6. Schwabe M, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3363–70

MDA468 growth inhibition by EGF is associated with the induction of the cyclin-dependent kinase inhibitor p21WAF1. Xie W, et al. **Anticancer Res** 1997 Jul–Aug; 17(4A):2627–33

Genistein selectively inhibits platelet-derived growth factor-stimulated versican biosynthesis in monkey arterial smooth muscle cells. Schönherr E, et al. **Arch Biochem Biophys** 1997 Mar 15;339(2):353–61

Interaction of 2-chlorodeoxyadenosine in combination either with interferons or recombinant human tumor necrosis factor alpha on myeloid progenitor cells in vitro. Korycka A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):259–64

Human leukemia inhibitory factor upregulates LDL receptors on liver cells and decreases serum cholesterol in the cholesterol-fed rabbit. Moran CS, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1267–73

Growth inhibition and induction of apoptosis by HGF in transformed rat liver epithelial cells. Conner EA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):396–401

Leukaemia inhibitory factor induces mitogenesis in Swiss 3T3 cells and selective enhancement via a variety of signalling events. Levy CS, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):814–8

Human immunodeficiency virus type 1 Vpr gene product prevents cell proliferation on mouse NIH3T3 cells without the G2 arrest of the cell cycle. Nishino Y, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):550–4

Members of the family of IL-6-type cytokines activate Stat5a in various cell types. Piekorz RP, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):438–43

Inhibition of DNA primase by sphingosine and its analogues parallels with their growth suppression of cultured human leukemic cells. Tamiya-Koizumi K, et al. **Biochem Mol Biol Int** 1997 May;41(6):1179–89

Leukemia inhibitory factor induces the 85-kDa cytosolic phospholipase A2 gene expression in cultured human bronchial epithelial cells. Ikezono T, et al. **Biochim Biophys Acta** 1997 Feb 4;1355(2):121–30

Ratio of inner cell mass and trophoblastic cells in blastocysts derived from porcine 4- and 8-cell embryos and isolated blastomeres cultured in vitro in the presence or absence of protein and human leukemia inhibitory factor. Eckert J, et al. **Biol Reprod** 1997 Sep;57(3):552–60

Macrophage inflammatory protein-1alpha and interferon-inducible protein 10 inhibit synergistically induced growth factor stimulation of MAP kinase activity and suppress phosphorylation of eukaryotic initiation factor 4E and 4E binding protein 1. Aronica SM, et al. **Blood** 1997 May 15;89(10):3582–95

Antibodies to transcobalamin II block in vitro proliferation of leukemic cells. McLean GR, et al. **Blood** 1997 Jan 1; 89(1):235–42

Interleukin-10 inhibits spontaneous colony-forming unit-granulocyte-macrophage growth from human peripheral blood mononuclear cells by suppression of endogenous granulocyte-macrophage colony-stimulating factor release. Oehler L, et al. **Blood** 1997 Feb 15; 89(4):1147–53

Retinoids irreversibly inhibit in vitro growth of Epstein-Barr virus-immortalized B lymphocytes. Pomponi F, et al. **Blood** 1996 Oct 15;88(8):3147–59

The potential of iron chelators of the pyridoxal isonicotinoyl hydrazone class as effective antiproliferative agents II: the mechanism of action of ligands derived from salicylaldehyde benzoyl hydrazone and 2-hydroxy-1-naphthylaldehyde benzoyl hydrazone. Richardson DR, et al. **Blood** 1997 Apr 15;89(8):3025–38

Inhibitors of haemopoiesis and their potential clinical relevance. Parker AN, et al. **Blood Rev** 1995 Dec; 9(4):226–33 (79 ref.)

Inhibition of hormone and growth factor responsive and resistant human breast cancer cells by CeReS-18, a cell regulatory sialoglycopeptide. Fattaey HK, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):125–36

Dansylated octapeptide Dns-Glu-Asp-Asp-Ser-Asp-Glu-Glu-Asn inhibits the proliferation rate of HL-60 cells. Marsili V, et al. **Can J Physiol Pharmacol** 1996 Dec;74(12):1302–7

Effects of the polyamine analogues BE-4-4-4-4, BE-3-7-3, and BE-3-3-3 on the proliferation of three prostate cancer cell lines. Jeffers L, et al. **Cancer Chemother Pharmacol** 1997;40(2):172–9

Cell-cycle arrest in G0/G1 phase of growth factor-induced endothelial cell proliferation by various calcium channel blockers. Zeitler H, et al. **Cancer Detect Prev** 1997; 21(4):332–9

Tumor growth inhibition, apoptosis, and Bcl-2 down-regulation of MCF-7ras tumors by sodium phenylacetate and tamoxifen combination. Adam L, et al. **Cancer Res** 1997 Mar 15;57(6):1023–9

Growth inhibition of human breast cancer cells by 1,25-dihydroxyvitamin D3 is accompanied by induction of apolipoprotein D expression. López-Boado YS, et al. **Cancer Res** 1997 Sep 15;57(18):4091–7

Cobalamin analogues modulate the growth of leukemia cells in vitro. McLean GR, et al. **Cancer Res** 1997 Sep 15; 57(18):4015–22

Tamoxifen-mediated growth inhibition of human cholangiocarcinoma. Sampson LK, et al. **Cancer Res** 1997 May 1;57(9):1743–9

Selenite and selenate inhibit human lymphocyte growth via different mechanisms. Spyrou G, et al. **Cancer Res** 1996 Oct 1;56(19):4407–12

Identification of constitutive and gamma-interferon- and interleukin 4-regulated proteins in the human renal carcinoma cell line ACHN. Sullivan CM, et al. **Cancer Res** 1997 Mar 15;57(6):1137–43

Basic fibroblast growth factor causes growth arrest in MCF-7 human breast cancer cells while inducing both mitogenic and inhibitory G1 events. Wang H, et al. **Cancer Res** 1997 May 1;57(9):1750–7

Inhibition of cellular growth and steroid 11 beta-hydroxylation in ras-transformed adrenocortical cells by the fungal toxins beticolins. Ding G, et al. **Cell Biol Int** 1996 Aug;20(8):523–30

Synthetic hispidin, a PKC inhibitor, is more cytotoxic toward cancer cells than normal cells in vitro. Gonindard C, et al. **Cell Biol Toxicol** 1997 Mar;13(3):141–53

Comparative evaluation of the antiproliferative effect of cyclosporin A and gamma-interferon on normal and HPV-transformed keratinocytes by cell counting, MTT assay and tritiated thymidine incorporation. Marionnet AV, et al. **Cell Biol Toxicol** 1997 Feb;13(2):115–23

Genistein inhibits both estrogen and growth factor-stimulated proliferation of human breast cancer cells. Peterson G, et al. **Cell Growth Differ** 1996 Oct; 7(10):1345–51

A temperature-conditional mutant of simian virus 40 large T antigen requires serum to inhibit myogenesis and does not induce DNA synthesis in myotubes. Salvatori G, et al. **Cell Growth Differ** 1997 Feb;8(2):157–64

The antiproliferative activity of the tetrapeptide Acetyl-N-SerAspLysPro, an inhibitor of haematopoietic stem cell proliferation, is not mediated by a thymosin beta 4-like effect on actin assembly. Cheviron N, et al. **Cell Prolif** 1996 Aug;29(8):437–46

Modifications of p53 protein and accumulation of p21 and gadd45 mRNA in TGF-beta 1 growth inhibited cells. Landesman Y, et al. **Cell Signal** 1997 May-Jun;9(3-4):291–8

Activation of JAK-STAT and MAP kinases by leukemia inhibitory factor through gp130 in cardiac myocytes [see comments] [published erratum appears in Circulation 1997 Apr 1;95(7):1975] Kunisada K, et al. **Circulation** 1996 Nov 15;94(10):2626–32. Comment in: Circulation 1996 Nov 15;94(10):2361–3.

Leukaemia inhibitory factor and oncostatin M modulate expression of urokinase plasminogen activator and fibrinogen. Okada H, et al. **Coron Artery Dis** 1996 Aug; 7(8):561–7

Mitotic effects of the aqueous leaf extract of Cymbopogon citratus in Allium cepa root tips. Williams GO, et al. **Cytobios** 1996;87(350):161–8

Glucocorticoids inhibit oncostatin M-induced phospholipase A2 gene expression in human hepatoma cells. Haselmann J, et al. **Cytokine** 1997 Mar;9(3):199–205

Upmodulation of multinucleated cell formation in long-term human bone marrow cultures by leukaemia inhibitory factor (LIF). Heymann D, et al. **Cytokine** 1997 Jan; 9(1):46–52

Oncostatin M (OSM) stimulates resorption and inhibits synthesis of proteoglycan in porcine articular cartilage explants. Hui W, et al. **Cytokine** 1996 Jun;8(6):495–500

Cytokines involving gp130 in signal transduction suppressed growth of a mouse hybridoma cell line and enhanced its antibody production. Terada S, et al. **Cytokine** 1996 Dec; 8(12):889–94

Effect of interleukin 1 and leukaemia inhibitory factor on chondrocyte metabolism in articular cartilage from normal and interleukin-6-deficient mice: role of nitric oxide and IL-6 in the suppression of proteoglycan synthesis. Van de Loo FA, et al. **Cytokine** 1997 Jul;9(7):453–62

bFGF and LIF signaling activates STAT3 in proliferating myoblasts. Megeney LA, et al. **Dev Genet** 1996; 19(2):139–45

Müller-cell-derived leukaemia inhibitory factor arrests rod photoreceptor differentiation at a postmitotic pre-rod stage of development. Neophytou C, et al. **Development** 1997 Jun;124(12):2345–54

Müllerian inhibiting substance inhibits branching morphogenesis and induces apoptosis in fetal rat lung. Catlin EA, et al. **Endocrinology** 1997 Feb;138(2):790–6

Alternative signaling mechanism of leukemia inhibitory factor responsiveness in a differentiating embryonal carcinoma cell. Takeda T, et al. **Endocrinology** 1997 Jul; 138(7):2689–96

Synthesis, cytotoxic properties and effects on early and late gene induction of a chimeric diphtheria toxin-leukemia-inhibitory factor protein. Negro A, et al. **Eur J Biochem** 1996 Oct 15;241(2):507–15

Influence of leukemia inhibitory factor on galanin/GMAP and neuropeptide Y expression in mouse primary sensory neurons after axotomy. Corness J, et al. **Exp Brain Res** 1996 Nov;112(1):79–88

All-trans-retinoic acid blocks cell cycle progression of human ovarian adenocarcinoma cells at late G1. Wu S, et al. **Exp Cell Res** 1997 May 1;232(2):277–86

In vitro expansion of murine hematopoietic progenitor cells by leukemia inhibitory factor, stem cell factor, and interleukin-1 beta. Imamura M, et al. **Exp Hematol** 1996 Sep;24(11):1280–8

Angiostatic role of astrocytes: suppression of vascular endothelial cell growth by TGF-beta and other inhibitory factor(s). Behzadian MA, et al. **Glia** 1995 Dec;15(4):480–90

Restrictin-P/stromal activin A, kills its target cells via an apoptotic mechanism. Sternberg D, et al. **Growth Factors** 1995;12(4):277–87

Interferon-gamma inhibits the lipopolysaccharide-induced macrophage inflammatory protein-1 alpha gene transcription in human neutrophils. Cassatella MA. **Immunol Lett** 1996 Jan;49(1-2):79–82

Phosphodiesterase inhibitors suppress proliferation of peripheral blood mononuclear cells and interleukin-4 and

-5 secretion by human T-helper type 2 cells. Crocker IC, et al. **Immunopharmacology** 1996 Mar;31(2-3):223-35

Treatment with 15-deoxyspergualin induces temporal suppression of hemopoiesis and changes thymocyte populations in mice. Mochida-Nishimura K, et al. **Immunopharmacology** 1996 Oct;35(1):65-70

The effects of human leukemia inhibitory factor (hLIF) and culture medium on in vitro differentiation of cultured porcine inner cell mass (pICM). Moore K, et al. **In Vitro Cell Dev Biol Anim** 1997 Jan;33(1):62-71

Assessment of the antiexudative and antiproliferative activities of non-steroidal anti-inflammatory drugs in inflammatory models developed in rats by subcutaneous implantation of bacterial cell walls from the dental plaque. Guimarães SA, et al. **Inflammation** 1996 Dec;20(6):623-36

Molecular mechanisms underlying IFN-gamma-mediated tumor growth inhibition induced during tumor immunotherapy with rIL-12. Yu WG, et al. **Int Immunol** 1996 Jun;8(6):855-65

Reduction in the duration of myelotoxicity associated with radioimmunotherapy with infusions of the hemoregulatory peptide, HP5b in mice. Alisauskas RM, et al. **Int J Cancer** 1997 Jan 27;70(3):323-9

All-trans, 13-cis and 9-cis retinoic acids induce a fully reversible growth inhibition in HNSCC cell lines: implications for in vivo retinoic acid use. Giannini F, et al. **Int J Cancer** 1997 Jan 17;70(2):194-200

Leukemia inhibitory factor induces apoptosis and proliferation of human carcinoma cells through different oncogene pathways. Kamohara H, et al. **Int J Cancer** 1997 Aug 7;72(4):687-95

IL-6-soluble IL-6 receptor complex inhibits the proliferation of dermal fibroblasts. Mihara M, et al. **Int J Immunopharmacol** 1996 Jan;18(1):89-94

Effects of two insect growth regulators on the susceptibility of Aedes aegypti (Diptera:Culicidae) to Molinema dessetae (Nematoda:Filarioidea). Fournet F, et al. **J Am Mosq Control Assoc** 1997 Mar;13(1):40-2

Inhibition of mesangial cell proliferation by platelet factor 4. Barnes JL, et al. **J Am Soc Nephrol** 1996 Jul;7(7):991-8

Culture of bovine embryos in buffalo rat liver cell-conditioned media or with leukemia inhibitory factor. Funston RN, et al. **J Anim Sci** 1997 May;75(5):1332-6

A common pro-opiomelanocortin-binding element mediates leukemia inhibitory factor and corticotropin-releasing hormone transcriptional synergy. Bousquet C, et al. **J Biol Chem** 1997 Apr 18;272(16):10551-7

Suppression of microtubule dynamics by LY290181. A potential mechanism for its antiproliferative action. Panda D, et al. **J Biol Chem** 1997 Mar 21;272(12):7681-7

Inhibition of endothelial cell growth by macrophage-like U-937 cell-derived oncostatin M, leukemia inhibitory factor, and transforming growth factor beta1. Takashima S, et al. **J Biol Chem** 1996 Oct 4;271(40):24901-6

Inhibition of T and B cell proliferation by titanium, cobalt, and chromium: role of IL-2 and IL-6. Wang JY, et al. **J Biomed Mater Res** 1996 Dec;32(4):655-61

Dipyridamole mediated enhanced antiproliferative activity of 10-ethyl-10-deazaaminopterin (10-EDAM) against human lung cancer cell lines. Dearing MP, et al. **J Cell Biochem Suppl** 1996;24:165-72

Transferrin dependence of Ga (NO3)3 inhibition of growth in human-derived small cell lung cancer cells. Weiner RE, et al. **J Cell Biochem Suppl** 1996;24:276-87

Leukemia inhibitory factor-dependent transcriptional activation in embryonic stem cells. Boeuf H, et al. **J Cell Biol** 1997 Sep 22;138(6):1207-17

Modulation of PDGF mediated osteoblast chemotaxis by leukemia inhibitory factor (LIF). Chandrasekhar S, et al. **J Cell Physiol** 1996 Dec;169(3):481-90

Antiproliferative effect of the C-terminal fragments of parathyroid hormone-related protein, PTHrP-(107-111) and (107-139), on osteoblastic osteosarcoma cells. Valín A, et al. **J Cell Physiol** 1997 Feb;170(2):209-15

Leukemia inhibitory factor (LIF) induces acute adrenocorticotrophic hormone (ACTH) secretion in fetal rhesus macaque primates: a novel dynamic test of pituitary function. Akita S, et al. **J Clin Endocrinol Metab** 1996 Nov; 81(11):4170-8

Interleukin 10 inhibits growth and granulocyte/macrophage colony-stimulating factor production in chronic myelomonocytic leukemia cells. Geissler K, et al. **J Exp Med** 1996 Oct 1;184(4):1377-84

Ultrastructural study of degradation of calcium phosphate ceramic by human monocytes and modulation of this activity by HILDA/LIF cytokine. Benahmed MD, et al. **J Histochem Cytochem** 1996 Oct;44(10):1131-40

Bispecific humanized anti-IL-2 receptor alpha beta antibodies inhibitory for both IL-2- and IL-15-mediated proliferation. Pilson RS, et al. **J Immunol** 1997 Aug 1; 159(3):1543-56

Oncostatin M, but not interleukin-6 or leukemia inhibitory factor, stimulates expression of alpha1-proteinase inhibitor in A549 human alveolar epithelial cells. Sallenave JM, et al. **J Interferon Cytokine Res** 1997 Jun;17(6):337-46

A comparison of the antiproliferative properties of recombinant human IFN-alpha 2 and IFN-omega in human bone marrow culture. Tiefenthaler M, et al. **J Interferon Cytokine Res** 1997 Jun;17(6):327-9

Diverse effects of tumor necrosis factor-alpha on three subclones from human myelomonocytic leukemia cell line ME-1 exhibiting different differentiation stages. Yanagisawa K, et al. **J Interferon Cytokine Res** 1996 Sep; 16(9):685-93

Inhibition of neointimal proliferation of rat carotid artery by sulodexide. Park HY, et al. **J Korean Med Sci** 1997 Jun;12(3):210-4

Distribution of cholinergic neuronal differentiation factor/leukemia inhibitory factor binding sites in the developing and adult rat nervous system in vivo. Qiu L, et al. **J Neurobiol** 1997 Feb;32(2):163-92

Glial growth factor rescues Schwann cells of mechanoreceptors from denervation-induced apoptosis. Kopp DM, et al. **J Neurosci** 1997 Sep 1;17(17):6697-706

Attempts to produce astrocyte cultures devoid of oligodendrocyte generating potential by the use of antimitotic treatment reveal the presence of quiescent oligodendrocyte precursors. Crang AJ, et al. **J Neurosci Res** 1997 Jul 1;49(1):64-71

Leukemia inhibitory factor is a myotrophic and neurotrophic agent that enhances the reinnervation of muscle in the rat. Finkelstein DI, et al. **J Neurosci Res** 1996 Oct 1;46(1):122-8

Short exposure to methylazoxymethanol causes a long-term inhibition of axonal outgrowth from cultured embryonic rat hippocampal neurons. Hoffman JR, et al. **J Neurosci Res** 1996 Nov 1;46(3):349-59

Leukemia inhibitory factor enhances the regeneration of transected rat sciatic nerve and the function of reinnervated muscle. Tham S, et al. **J Neurosci Res** 1997 Jan 15; 47(2):208-15

Inhibition of vascular smooth muscle cell proliferation and arterial intimal thickening by a novel antiproliferative naphthopyran. Wiernicki TR, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1452-9

Modulation of the effects of FSH, androstenedione, epidermal growth factor (EGF) and insulin-like growth factor I (IGF-I) on bovine granulosa cells by GCIF, a growth-inhibitory factor of low molecular mass from bovine follicular fluid. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):193-7

In vivo effect of recombinant human leukemia inhibitory factor in primates. Akiyama Y, et al. **Jpn J Cancer Res** 1997 Jun;88(6):578-83

Protective effect of recombinant human leukemia inhibitory factor against thrombocytopenia in carboplatin-treated mice. Akiyama Y, et al. **Jpn J Cancer Res** 1997 Jun; 88(6):584-9

Differential regulation of chemokines by leukemia inhibitory factor, interleukin-6 and oncostatin M. Hartner A, et al. **Kidney Int** 1997 Jun;51(6):1754-60

Myoglobin inhibits proliferation of cultured human proximal tubular (HK-2) cells. Iwata M, et al. **Kidney Int** 1996 Sep; 50(3):796-804

Interleukin-6 inhibits apoptosis and tumour necrosis factor induced proliferation of B-chronic lymphocytic leukaemia. Reittie JE, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):83-90, follow. 186, color plate VI

A fraction unresponsive to growth inhibition by TGF-beta among the high-proliferative potential progenitor cells in bone marrow of p53-deficient mice. Sasaki H, et al. **Leukemia** 1997 Feb;11(2):239-44

Blockade of growth factor synthesis and growth factor action: two possible sites of interference in allograft vessel disease and coronary bypass or balloon injury. Häyry P, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):101-3

Inefficient growth arrest in response to dNTP starvation stimulates gene amplification through bridge-breakage-fusion cycles. Poupon MF, et al. **Mol Biol Cell** 1996 Mar;7(3):345-54

1,25-dihydroxyvitamin D3 inhibits proliferation of IMR-90 human fibroblasts and stimulates pyruvate kinase activity in confluent-phase cells. Lunghi B, et al. **Mol Cell Endocrinol** 1995 Dec 29;115(2):141-8

Inhibition of mitosis and microtubule function through direct tubulin binding by a novel antiproliferative naphthopyran LY290181. Wood DL, et al. **Mol Pharmacol** 1997 Sep; 52(3):437-44

Effect of beraprost sodium, a PGI2 analogue, on proliferation of cultured rat glomerular mesangial cells [letter] Makita Y, et al. **Nephron** 1996;74(1):228

Molecules inhibiting neurite growth: a minireview. Schwab ME. **Neurochem Res** 1996 Jul;21(7):755-61 (92 ref.)

VIP and pituitary adenylate cyclase activating polypeptide (PACAP) have an antiproliferative effect on the T98G human glioblastoma cell line through interaction with VIP2 receptor. Vertongen P, et al. **Neuropeptides** 1996 Oct; 30(5):491-6

LIF potentiates the NT-3-mediated survival of spiral ganglia neurones in vitro. Marzella PL, et al. **Neuroreport** 1997 May 6;8(7):1641-4

Myelin from MAG-deficient mice is a strong inhibitor of neurite outgrowth. Ng WP, et al. **Neuroreport** 1996 Mar 22;7(4):861-4

Leukaemia inhibitory factor treatment stimulates muscle regeneration in the mdx mouse. Kurek J, et al. **Neurosci Lett** 1996 Jul 19;212(3):167-70

Promotion of neurogenesis in mouse olfactory neuronal progenitor cells by leukemia inhibitory factor in vitro. Satoh M, et al. **Neurosci Lett** 1997 Apr 11;225(3):165-8

Antiproliferative effects of cyclopentenyl cytosine (NSC 375575) in human glioblastoma cells. Agbaria R, et al. **Oncol Res** 1997;9(3):111-8

The antiproliferative effect of trans-retinoic acid is associated with selective induction of interleukin-1 beta, a cytokine that directly inhibits growth of lung cancer cells. Ross HJ. **Oncol Res** 1996;8(4):171-8

Effects of exogenous IL-1 beta, TNF alpha, IL-6, IL-8 and LIF on cytokine production by human articular chondrocytes. Henrotin YE, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):163-73

Isolation and characterization of the chicken m2 acetylcholine receptor promoter region: induction of gene transcription by leukemia inhibitory factor and ciliary neurotrophic factor. Rosoff ML, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14889-94

Leukemia inhibitory factor induces differentiation of pituitary corticotroph function: an immuno-neuroendocrine phenotypic switch. Stefana B, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12502-6

Effects of gas atmosphere, platelet-derived growth factor and leukemia inhibitory factor on cell numbers of rabbit embryos cultured in a protein-free medium. Giles JR, et al. **Reprod Nutr Dev** 1997;37(1):97-104

Leukemia inhibitory factor induces a hypertrophic response mediated by gp130 in murine cardiac myocytes. Matsui H, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug; 93(2):149-62

IL12, a direct stimulator and indirect inhibitor of haematopoiesis. Jacobsen SE. **Res Immunol** 1995 Sep-Oct; 146(7-8):506-14 (34 ref.)

Biochemical and cytogenetical study of the mycoplasmal antigen and of the cyclophosphamide action in mammalians, in vivo. The action of some immunomodulatory antioxidants. Dumitrescu M, et al. **Roum Arch Microbiol Immunol** 1996 Jul-Sep;55(3):225-39

Leukemia inhibitory factor induces in vivo expansion of bone marrow progenitor cells that accelerate hematopoietic reconstitution but do not enhance radioprotection in lethally irradiated mice. Pruijt JF, et al. **Stem Cells** 1997; 15(1):50-5

Inhibition of PDGF-mediated proliferation of vascular smooth muscle cells by calcium antagonists. Kataoka S, et al. **Stroke** 1997 Feb;28(2):364-9

Regulation of transforming growth factor beta 1 messenger ribonucleic acid expression in porcine thyroid follicles in vitro by growth factors, iodine, or delta-iodolactone. Gärtner R, et al. **Thyroid** 1997 Aug;7(4):633-40

[Inhibition of neovascularization of the eye by dietary factors exemplified by isoflavonoids] Kruse FE, et al. **Ophthalmologe** 1997 Feb;94(2):152-6 (Eng. Abstr.) **(Ger)**

[Angiogenesis and its inhibitors] Ono M, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1585-93 (12 ref.) (Eng. Abstr.) **(Jpn)**

[The effect of leukemia-inhibitory factor on the hematopoiesis and stromal precursor cells in long-term culture of murine bone marrow] Drize NI, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):325-8 **(Rus)**

[The effect of lymphocytic chalone on lymphocyte functional activity in antioxidant deficiency and its correction with vitamin E] Harkava KH, et al. **Fiziol Zh** 1995 Sep-Dec; 41(5-6):27-32 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

V3 loop of human immunodeficiency virus type 1 suppresses interleukin 2-induced T cell growth [published erratum appears in AIDS Res Hum Retroviruses 1997 May 1;13(7):633] Sakaida H, et al. **AIDS Res Hum Retroviruses** 1997 Jan 20;13(2):151-9

Role of oncostatin M in the regulation of cartilage macromolecule metabolism: comment on the article by Nemoto et al [letter; comment] Carroll G, et al. **Arthritis Rheum** 1997 Mar;40(3):589-90. Comment on: Arthritis Rheum 1996 Apr;39(4):560-6.

Type II protein kinase A up-regulation is sufficient to induce growth inhibition in SK-N-SH human neuroblastoma cells. Kim SN, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):469-73

A novel candidate tumor suppressor, ING1, is involved in the regulation of apoptosis. Helbing CC, et al. **Cancer Res** 1997 Apr 1;57(7):1255-8

Postrenal transplant erythrocytosis: a possible role for testosterone, angiotensin I-converting enzyme, and N-acetyl-seryl-aspartyl-lysyl-proline: reply to Kessler et al [letter; comment] [see comments] Kotanko P, et al. **Clin Nephrol** 1996 Sep;46(3):217. Comment on: Clin Nephrol 1996 Feb;45(2):83-9. Comment in: Clin Nephrol 1997 Jul;48(1):60.

CNTF and LIF are not required for the target-directed acquisition of cholinergic and peptidergic properties by sympathetic neurons in vivo. Francis NJ, et al. **Dev Biol** 1997 Feb 1;182(1):76-87

Factors controlling prespore cell differentiation in Dictyostelium discoideum: minute amounts of differentiation-inducing factor promote prespore cell differentiation. Oohata AA. **Differentiation** 1995 Dec; 59(5):283-8

Role of leukemia inhibitory factor during mammalian development. Shellard J, et al. **Eur Cytokine Netw** 1996 Dec;7(4):699-712 (69 ref.)

Leukaemia inhibitory factor induced in the sciatic nerve after axotomy is involved in the induction of galanin in sensory neurons. Sun Y, et al. **Eur J Neurosci** 1996 Oct; 8(10):2213-20

Influence of leukemia inhibitory factor (LIF) on the survival, proliferation and differentiation of human erythroid progenitor cells. In vitro studies under serum free

conditions. Ratajczak J, et al. **Folia Histochem Cytobiol** 1997;35(2):63–8

Self renewal of embryonic stem cells in the absence of feeder cells and exogenous leukaemia inhibitory factor. Berger CN, et al. **Growth Factors** 1997;14(2–3):145–59

A role of transforming growth factor–beta 1 in the control of corneal neovascularization. Friling R, et al. **In Vivo** 1996 Jan–Feb;10(1):59–64

Isolation and characterization of a leukemia inhibitory factor–independent embryonic stem cell line. Gendall AR, et al. **Int J Biochem Cell Biol** 1997 May;29(5):829–40

Structural plasticity of the adult CNS. Negative control by neurite growth inhibitory signals. Schwab ME. **Int J Dev Neurosci** 1996 Jul;14(4):379–85 (67 ref.)

Preferential inhibitory effect of soluble factor(s) in human bone marrow stromal cells on proliferation of K562 leukemia cells versus normal myeloid progenitor cells. Aoyagi A, et al. **Int J Hematol** 1996 Apr;63(3):205–13

Kringle 5 of plasminogen is a novel inhibitor of endothelial cell growth. Cao Y, et al. **J Biol Chem** 1997 Sep 5; 272(36):22924–8

Growth–inhibitory activity and downregulation of the class II tumor–suppressor gene H–rev107 in tumor cell lines and experimental tumors. Sers C, et al. **J Cell Biol** 1997 Feb 24;136(4):935–44

The growth arresting effect of human immunoglobulin for intravenous use is mediated by antibodies recognizing membrane glycolipids. Vuist WM, et al. **J Clin Immunol** 1997 Jul;17(4):301–10

Proliferation of hepatic stellate cells is inhibited by phosphorylation of CREB on serine 133. Houglum K, et al. **J Clin Invest** 1997 Mar 15;99(6):1322–8

Activation of the lymphotoxin beta receptor by cross–linking induces chemokine production and growth arrest in A375 melanoma cells. Degli–Esposti MA, et al. **J Immunol** 1997 Feb 15;158(4):1756–62

Involvement of leukemia inhibitory factor in the increases in galanin and vasoactive intestinal peptide mRNA and the decreases in neuropeptide Y and tyrosine hydroxylase mRNA in sympathetic neurons after axotomy. Sun Y, et al. **J Neurochem** 1996 Oct;67(4):1751–60

Anti–müllerian hormone in relation to the growth and differentiation of the gubernacular primordia in mice. Lyet L, et al. **J Reprod Fertil** 1996 Nov;108(2):281–8

Regulation of follicular maturation by human ovarian follicular fluid peptide. Nandedkar TD, et al. **J Reprod Fertil Suppl** 1996;50:95–104

Progestin–dependent stimulation of the human leukemia inhibitory factor promoter in SKUT–1B uterine tumor cells. Bamberger AM, et al. **J Reprod Immunol** 1997 Jul; 33(3):189–201

Testicular descent—a proposed interaction between müllerian inhibiting substance and epidermal growth factor [editorial; comment] Siow Y, et al. **J Urol** 1997 Aug; 158(2):613–4. Comment on: J Urol 1997 Aug;158(2):610–2.

Suppression of the novel growth inhibitor p33ING1 promotes neoplastic transformation. Garkavtsev I, et al. **Nat Genet** 1996 Dec;14(4):415–20

Leukemia inhibitory factor and ciliary neurotrophic factor in sensory neuron development. Horton AR, et al. **Perspect Dev Neurobiol** 1996;4(1):35–8 (30 ref.)

Regulation of oligodendrocyte cell survival and differentiation by ciliary neurotrophic factor, leukemia inhibitory factor, oncostatin M, and interleukin–6. Vos JP, et al. **Perspect Dev Neurobiol** 1996;4(1):39–52 (133 ref.)

Changes in neuropeptide phenotype after axotomy of adult peripheral neurons and the role of leukemia inhibitory factor. Zigmond RE, et al. **Perspect Dev Neurobiol** 1996; 4(1):75–90 (146 ref.)

Myelin–associated neurite growth inhibitors: regulators of plastic changes of neural connections in the central nervous system. Kapfhammer JP. **Prog Brain Res** 1996;108:183–202 (61 ref.)

Angiogenesis: a dynamic balance of stimulators and inhibitors. Iruela–Arispe ML, et al. **Thromb Haemost** 1997 Jul;78(1):672–7 (60 ref.)

[Contraction of extracellular matrix by transdifferentiated retinal pigment epithelial cells, inducers and inhibitors] Grisanti S, et al. **Ophthalmologe** 1996 Dec;93(6):709–13 (Eng. Abstr.) **(Ger)**

[The persistent müllerian duct syndrome with transverse testicular ectopia. A hypothesis on the role of müllerian inhibiting factor in the process of testicular migration] Asero L, et al. **Pediatr Med Chir** 1997 May–Jun;19(3):223–5 (14 ref.) (Eng. Abstr.) **(Ita)**

[Regenerating hematopoietic tissue as a source for a low molecular weight factor that inhibits leukemic cell proliferation] Sheleg SV, et al. **Biokhimiia** 1996 Apr; 61(4):621–8 (Eng. Abstr.) **(Rus)**

[Inhibitory factors in hematopoiesis: present and future] Putintseva E. **Sangre (Barc)** 1996 Dec;41(6):459–63 (54 ref.) **(Spa)**

SECRETION

Human endometrial leukemia inhibitor factor (LIF) secretion and its relationship to sonographic endometrial appearance. Hambartsoumian E. **Am J Reprod Immunol** 1997 Apr; 37(4):320–5

A sensory axon repellent secreted from ventral spinal cord explants is neutralized by antibodies raised against collapsin–1. Shepherd IT, et al. **Development** 1997 Apr; 124(7):1377–85

Regulation of testicular anti–M ullerian hormone secretion. Rey R, et al. **Eur J Endocrinol** 1996 Aug;135(2):144–52 (78 ref.)

Secretion of leukaemia inhibiting factor by human endometrium alone and in co–cultures with embryos. Plachot M, et al. **Hum Reprod** 1996 Sep;11 Suppl 1:185–6; discussion 193–5

Growth factor/cytokine secretion by a permanent human endometrial cell line with embryotrophic properties. Desai NN, et al. **J Assist Reprod Genet** 1996 Aug;13(7):546–50

Mouse parenchymal liver cells in culture secrete a growth inhibitor for myeloma cells. Takahashi M, et al. **J Hepatol** 1996 Feb;24(2):225–9

THERAPEUTIC USE

Clinical relevance of growth factor antagonists in the treatment of benign prostatic hyperplasia. Desgrandchamps F. **Eur Urol** 1997;32 Suppl 1:28–31 (16 ref.)

Leukemia inhibitory factor ameliorates experimental anti–GBM Ab glomerulonephritis. Tang WW, et al. **Kidney Int** 1996 Dec;50(6):1922–7

TOXICITY

Protection from procarbazine–induced testicular damage by hormonal pretreatment does not involve arrest of spermatogonial proliferation. Meistrich ML, et al. **Cancer Res** 1997 Mar 15;57(6):1091–7

Furaltadone cytotoxicity on three cell lines in the presence or absence of DMSO: comparison with furazolidone. Stammati A, et al. **Cell Biol Toxicol** 1997 Feb;13(2):125–30

Supplemental phytic acid and microbial phytase change zinc bioavailability and cadmium accumulation in growing rats. Rimbach G, et al. **J Trace Elem Med Biol** 1995 Jul; 9(2):117–22

URINE

Isolation and N–terminal sequence of multiple forms of granulins in human urine. Sparro G, et al. **Protein Expr Purif** 1997 Jul;10(2):169–74

GROWTH PLATE

see related

BONE DEVELOPMENT

Epiphyseal distraction and centrally located bone bar: an experimental study in the rabbit. Cottalorda J, et al. **J Pediatr Orthop** 1996 Sep–Oct;16(5):664–8

ABNORMALITIES

Dyggve–Melchior–Clausen syndrome without mental retardation (Smith–McCort dysplasia): morphological findings in the growth plate of the iliac crest. Nakamura K, et al. **Am J Med Genet** 1997 Oct 3;72(1):11–7

What is your diagnosis? Premature closure of the caudal aspect of the proximal tibial growth plate. Guilliard M. **J Small Anim Pract** 1996 Oct;37(10):461, 489–90

ANATOMY & HISTOLOGY

Thickness distribution of the subchondral mineralization zone of the trochlear notch and its correlation with the cartilage thickness: an expression of functional adaptation to mechanical stress acting on the humeroulnar joint? Milz S, et al. **Anat Rec** 1997 Jun;248(2):189–97

BLOOD SUPPLY

Transphyseal vessel involvement in repair of metaphyseal retained cartilage. Firth EC, et al. **Aust Vet J** 1995 Dec; 72(12):452–5

Proximal tibiotarsal infarcts in turkeys. Mutalib A, et al. **Avian Dis** 1996 Oct–Dec;40(4):807–12

[The vascularization characteristics of free transplants of the growth zones of the long tubular bones (experimental studies)] Nikitiuk IE, et al. **Vestn Khir Im I I Grek** 1995; 154(4–6):65–7 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Specific properties of the extracellular chondroitin sulphate proteoglycans in the mandibular condylar growth centre in pigs. Roth S, et al. **Arch Oral Biol** 1997 Jan;42(1):63–76

Ultrastructural localization of alpha–parvalbumin in the epiphyseal plate cartilage and bone of growing rats. Toury R, et al. **Bone** 1996 Sep;19(3):245–53

In situ levels of intracellular Ca2+ and pH in avian growth plate cartilage. Wu LN, et al. **Clin Orthop** 1997 Feb; (335):310–24

Characterization and reconstitution of the nucleational complex responsible for mineral formation by growth plate cartilage matrix vesicles. Wu LN, et al. **Connect Tissue Res** 1996;35(1–4):309–15

Immunolocalization of basic fibroblast growth factor in porcine epiphyseal growth plate. Leach RM Jr, et al. **Domest Anim Endocrinol** 1997 Mar;14(2):129–32

Lack of chondroitin sulphate epitope in the proliferating zone of the growth plate of chicken tibia. Nakano T, et al. **Histochem J** 1996 Dec;28(12):867–73

Characterization of epiphycan, a small proteoglycan with a leucine–rich repeat core protein. Johnson HJ, et al. **J Biol Chem** 1997 Jul 25;272(30):18709–17

Physicochemical characterization of the nucleational core of matrix vesicles. Wu LN, et al. **J Biol Chem** 1997 Feb 14; 272(7):4404–11

CYTOLOGY

Assessment of an ectopic bone formation system with implantation of pelleted rat primary growth cartilage cells. Okihana H, et al. **Bone** 1997 Apr;20(4):341–5

Abnormalities in bone cell function and endochondral ossification in the osteopetrotic toothless rat. Seifert MF. **Bone** 1996 Oct;19(4):329–38

Coordinated change between complement C1s production and chondrocyte differentiation in vitro. Nakagawa K, et al. **Cell Tissue Res** 1997 Aug;289(2):299–305

The phenotypic switch from chondrocytes to bone–forming cells involves asymmetric cell division and apoptosis. Roach HI, et al. **Connect Tissue Res** 1996;35(1–4):85–91

Roles of cartilage matrix proteins, chondromodulin–I and –II, in endochondral bone formation: a review. Suzuki F. **Connect Tissue Res** 1996;35(1–4):303–7 (21 ref.)

Interaction of epidermal growth factor and insulin–like growth factor–I in the regulation of growth plate chondrocytes. Bonassar LJ, et al. **Exp Cell Res** 1997 Jul 10;234(1):1–6

Apoptosis and proliferation of growth plate chondrocytes in rabbits. Aizawa T, et al. **J Bone Joint Surg Br** 1997 May;79(3):483–6

Possible involvement of RGD (Arg–Gly–Asp)–containing extracellular matrix proteins in rat growth plate chondrocyte differentiation in culture. Yasuda T, et al. **J Bone Miner Res** 1996 Oct;11(10):1430–7

Differential effects of parathyroid hormone fragments on collagen gene expression in chondrocytes. Erdmann S, et al. **J Cell Biol** 1996 Nov;135(4):1179–91

Regulated production of mineralization–competent matrix vesicles in hypertrophic chondrocytes. Kirsch T, et al. **J Cell Biol** 1997 Jun 2;137(5):1149–60

Abnormal compartmentalization of cartilage matrix components in mice lacking collagen X: implications for function. Kwan KM, et al. **J Cell Biol** 1997 Jan 27; 136(2):459–71

Recombinant bone morphogenetic protein (BMP)–2 regulates costochondral growth plate chondrocytes and induces expression of BMP–2 and BMP–4 in a cell maturation–dependent manner. Erickson DM, et al. **J Orthop Res** 1997 May;15(3):371–80

Differential growth by growth plates as a function of multiple parameters of chondrocytic kinetics. Wilsman NJ, et al. **J Orthop Res** 1996 Nov;14(6):927–36

Immunocytochemical demonstration of pituitary adenylate cyclase activating polypeptide (PACAP) in the porcine epiphyseal cartilage canals. Strange–Vognsen HH, et al. **Neuropeptides** 1997 Apr;31(2):137–41

[In vitro culture of growth cartilage and in situ reimplantation] Jouve JL. **Chirurgie** 1996;121(4):273–8; discussion 278–9 (Eng. Abstr.) **(Fre)**

[Structure and function of the growth plate] Tillmann B, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep–Oct;134(5):396–9 (24 ref.) **(Ger)**

DRUG EFFECTS

Interaction between insulin–like growth factor I, growth hormone, parathyroid hormone, 1 alpha,25–dihydroxyvitamin D3 and steroids on epiphyseal chondrocytes [see comments] Klaus G, et al. **Acta Paediatr Suppl** 1996 Oct;417:69–71 (28 ref.). Comment in: Acta Paediatr Suppl 1996 Oct;417 :80.

Alcohol consumption by young actively growing rats: a study of cortical bone histomorphometry and mechanical properties. Hogan HA, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):809–16

Hepatocyte growth factor and its actions in growth plate chondrocytes. Grumbles RM, et al. **Bone** 1996 Sep; 19(3):255–61

Pathogenesis of vitamin (A and D)–induced premature growth–plate closure in calves. Woodard JC, et al. **Bone** 1997 Aug;21(2):171–82

Retinoid–induced epiphyseal plate closure in guinea pigs. Standeven AM, et al. **Fundam Appl Toxicol** 1996 Nov; 34(1):91–8

Single cell enzyme activity and proliferation in the growth plate: effects of growth hormone. Gevers EF, et al. **J Bone Miner Res** 1996 Aug;11(8):1103–11

Evidence that interleukin–1, but not interleukin–6, affects costochondral chondrocyte proliferation, differentiation, and matrix synthesis through an autocrine pathway. Horan J, et al. **J Bone Miner Res** 1996 Aug;11(8):1119–29

Effects of calcitonin and parathyroid hormone on calcification of primary cultures of chicken growth plate chondrocytes. Ishikawa Y, et al. **J Bone Miner Res** 1997 Mar;12(3):356–66

Retinoic acid stimulates matrix calcification and initiates type I collagen synthesis in primary cultures of avian weight–bearing growth plate chondrocytes. Wu LN, et al. **J Cell Biochem** 1997 May;65(2):209–30

Effects of lead on growth plate chondrocyte phenotype. Hicks DG, et al. **Toxicol Appl Pharmacol** 1996 Sep; 140(1):164–72

EMBRYOLOGY

Structure and function of embryonic growth plate in the absence of functioning skeletal muscle. Germiller JA, et

al. **J Orthop Res** 1997 May;15(3):362–70

ENZYMOLOGY

Simultaneous demonstration of alkaline and acid phosphatase activity in bone, at bone–implant interfaces and at the epiphyseal growth plate in plastic–embedded undemineralized tissues. Piattelli A, et al. **Biomaterials** 1997 Apr;18(7):545–9

Aggregate degradation by growth plate proteases. Ehrlich MG, et al. **Clin Orthop** 1997 Jan;(334):298–304

GROWTH & DEVELOPMENT

Longitudinal growth rate following slow physeal distraction. The proximal tibial growth plate studied in rabbits. Pereira BP, et al. **Acta Orthop Scand** 1997 Jun;68(3):262–8

Effect of 19–norandrostenololylaurate on serum testosterone concentration, libido, and closure of distal radial growth plate in colts. Koskinen E, et al. **Acta Vet Scand** 1997; 38(1):59–67

Quantitative analysis of trabecular morphogenesis in the human costochondral junction during the postnatal period in normal subjects. Fazzalari NL, et al. **Anat Rec** 1997 May; 248(1):1–12

Biomechanical control of knee alignment: some insights from a new paradigm. Frost HM. **Clin Orthop** 1997 Feb; (335):335–42

Identification and characterization of up–regulated genes during chondrocyte hypertrophy. Nurminskaya M, et al. **Dev Dyn** 1996 Jul;206(3):260–71

The development of the growth plate after birth: a study by osteocalcin immunocytochemistry. Oni OO. **Injury** 1997 Apr;28(3):199–202

Osteoblasts express types I and II activin receptors during early intramembranous and endochondral bone formation. Shuto T, et al. **J Bone Miner Res** 1997 Mar;12(3):403–11

High–resolution magnetic resonance imaging of normal porcine cartilaginous epiphyseal maturation. Babyn PS, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):172–9

Targeted overexpression of parathyroid hormone–related peptide in chondrocytes causes chondrodysplasia and delayed endochondral bone formation. Weir EC, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10240–5

INJURIES

Epiphyseal distraction [letter] Rao SB. **J Hand Surg [Am]** 1996 Jan;21(1):153–4

The use of helical computed tomographic scan to assess bony physeal bridges. Loder RT, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):356–9

Wrist pain in a young gymnast: unusual radiographic findings and MRI evidence of growth plate injury. DiFiori JP, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):1453–8

[Injuries to the growth plates] Jungbluth KH, et al. **Unfallchirurg** 1997 Jul;100(7):571–86 (30 ref.) **(Ger)**

INNERVATION

Nerves in human epiphyseal uncalcified cartilage. Strange–Vognsen HH, et al. **J Pediatr Orthop B** 1997 Jan; 6(1):56–8

Immunocytochemical demonstration of pituitary adenylate cyclase activating polypeptide (PACAP) in the porcine epiphyseal cartilage canals. Strange–Vognsen HH, et al. **Neuropeptides** 1997 Apr;31(2):137–41

METABOLISM

Chondrocytes in the endochondral growth cartilage are not hypoxic. Shapiro IM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):C1134–43

Strong expression of heat shock proteins in growth plate cartilage, an immunohistochemical study of HSP28, HSP70 and HSP110. Vanmuylder N, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):359–62

Gene expression during cartilage differentiation in turkey tibial dyschondroplasia, evaluated by in situ hybridization. Knopov V, et al. **Avian Dis** 1997 Jan–Mar;41(1):62–72

Characterization of voltage–sensitive calcium channels in growth plate chondrocytes. Zuscik MJ, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):432–8

Growth plate chondrocyte vitamin D receptor number and affinity are reduced in avian tibial dyschondroplastic lesions. Berry JL, et al. **Bone** 1996 Aug;19(2):197–203

Type X collagen is colocalized with a proteoglycan epitope to form distinct morphological structures in bovine growth cartilage. Gibson G, et al. **Bone** 1996 Oct;19(4):307–15

Structural changes in the large proteoglycan, aggrecan, in different zones of the ovine growth plate. Byers S, et al. **Calcif Tissue Int** 1997 Jan;60(1):71–8

Ultrastructural immunolocalization of cartilage oligomeric matrix protein (COMP) in porcine growth cartilage. Ekman S, et al. **Calcif Tissue Int** 1997 Jun;60(6):547–53

Coordinated change between complement C1s production and chondrocyte differentiation in vitro. Nakagawa K, et al. **Cell Tissue Res** 1997 Aug;289(2):299–305

Metallothionein induction in calcifying growth plate cartilage chondrocytes. Litchfield TM, et al. **Connect Tissue Res** 1996;35(1–4):189–95

Roles of cartilage matrix proteins, chondromodulin–I and –II, in endochondral bone formation: a review. Suzuki F. **Connect Tissue Res** 1996;35(1–4):303–7 (21 ref.)

Mouse cathepsin K: cDNA cloning and predominant expression of the gene in osteoclasts, and in some hypertrophying chondrocytes during mouse development. Rantakokko J, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):307–13

P–glycoprotein expression in high grade central osteosarcoma and normal bone cells. An immunohistochemical study. Pösl M, et al. **Gen Diagn Pathol** 1997 Jun;142(5–6):317–25

Immunohistochemical localization of fibroblast growth factor–2 in normal and brachymorphic mouse tibial growth plate and articular cartilage. Wezeman FH, et al. **Histochem J** 1997 Jun;29(6):505–14

Osteocalcin expression in the groove of Ranvier of the rabbit growth plate. Oni OO. **Injury** 1997 Mar;28(2):109–11

Basic fibroblast growth factor: an autocrine growth factor for epiphyseal growth plate chondrocytes. Luan Y, et al. **J Cell Biochem** 1996 Sep 1;62(3):372–82

Retinoic acid stimulates matrix calcification and initiates type I collagen synthesis in primary cultures of avian weight–bearing growth plate chondrocytes. Wu LN, et al. **J Cell Biochem** 1997 May;65(2):209–30

Hyaluronan contributes to the enlargement of hypertrophic lacunae in the growth plate. Pavasant P, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):327–34

Expression of growth factors in chicken growth plate with special reference to tibial dyschondroplasia. Ren P, et al. **J Comp Pathol** 1997 Apr;116(3):303–20

The influence of trace elements on calcium phosphate formation by matrix vesicles. Sauer GR, et al. **J Inorg Biochem** 1997 Jan;65(1):57–65

Early mineralization of matrix vesicles in the epiphyseal growth plate. Plate U, et al. **J Microsc** 1996 Jul;183 (Pt 1):102–7

Differential regulation of type–II and type–X collagen synthesis by parathyroid hormone–related protein in chick growth–plate chondrocytes. O'Keefe RJ, et al. **J Orthop Res** 1997 Mar;15(2):162–74

Hyaluronan synthesis by epiphysial chondrocytes is regulated by growth hormone, insulin–like growth factor–1, parathyroid hormone and transforming growth factor–beta 1. Pavasant P, et al. **Matrix Biol** 1996 Dec;15(6):423–32

Growth hormone stimulates the secretion of insulin–like growth factor binding protein–2 (IGFBP–2) by monolayer cultures of sheep costal growth plate chondrocytes. Borromeo V, et al. **Mol Cell Biochem** 1996 Sep 20; 162(2):145–51

PTH/PTHrP receptor mRNA is down–regulated in epiphyseal cartilage growth plate of uraemic rats. Ureña P, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2008–16

PATHOLOGY

Combined use of malachite green fixation and PLA2–gold complex technique to localize phospholipids in areas of early calcification of rat epiphyseal cartilage and bone. Silvestrini G, et al. **Bone** 1996 Jun;18(6):559–65

Cartilage calcification and limb bud growth in the developing tich mouse embryo. Ahmed Z, et al. **Calcif Tissue Int** 1997 Jun;60(6):561–6

Chondrocytes of the tibial dyschondroplastic lesion are apoptotic. Praul CA, et al. **Int J Dev Biol** 1997 Aug; 41(4):621–6

Longitudinal epiphyseal bracket: associated foot deformities with implications for treatment. Sobel E, et al. **J Am Podiatr Med Assoc** 1996 Apr;86(4):147–55 (23 ref.)

Implications of increased bone density in osteoarthritis. Hamerman D, et al. **J Bone Miner Res** 1996 Sep; 11(9):1205–8 (53 ref.)

Vitamin (A and D)–induced premature physeal closure (hyena disease) in calves. Carroll Woodard J, et al. **J Comp Pathol** 1997 May;116(4):353–66

Disrupted growth plates and progressive deformities in osteogenesis imperfecta as a result of the substitution of glycine 585 by valine in the alpha 2 (I) chain of type I collagen. Cole WG, et al. **J Med Genet** 1996 Nov; 33(11):968–71

Experimental studies on bovine Hyena disease induced by administration of excessive vitamin AD3E premix, vitamin A, or vitamin D3. Takaki H, et al. **J Vet Med Sci** 1996 Apr;58(4):311–6

Changes in bone metabolism and epiphysial growth plate in bovine Hyena disease induced by administration of vitamin AD3E premix or Vitamin A. Takaki H, et al. **J Vet Med Sci** 1996 May;58(5):407–12

Local physeal widening on MR imaging: an incidental finding suggesting prior metaphyseal insult. Laor T, et al. **Pediatr Radiol** 1997 Aug;27(8):654–62

Cartilaginous endplate in cervical disc herniation. Kokubun S, et al. **Spine** 1996 Jan 15;21(2):190–5

[Histological study of cartilage channels in the epiphyseal cartilage of young dogs and their relationship to that of osteochondrosis dissecans in the most frequently affected locations] Weiss S, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 May;103(5):164–9 (Eng. Abstr.) **(Ger)**

[Changes in the epiphysis and epiphyseal plate in systemic and genetically–induced diseases] Enderle A. **Z Orthop Ihre Grenzgeb** 1996 Jul–Aug;134(4):309–16 (9 ref.) (Eng. Abstr.) **(Ger)**

[The epiphyseal plate in hemodialysis, peritoneal dialysis and following kidney transplantation] Fink B, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul–Aug;134(4):317–23 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Transphyseal vessel involvement in repair of metaphyseal retained cartilage. Firth EC, et al. **Aust Vet J** 1995 Dec; 72(12):452–5

Complement C1s, a classical enzyme with novel functions at the endochondral ossification center: immunohistochemical staining of activated C1s with a neoantigen–specific antibody. Sakiyama H, et al. **Cell Tissue Res** 1997 Jun;288(3):557–65

Requirement of fibroblast growth factor signaling for regeneration of epiphyseal morphology in rabbit full–thickness defects of articular cartilage. Otsuka Y, et al. **Dev Growth Differ** 1997 Apr;39(2):143–56

Onset of epiphyseal mineralization and growth plate closure in radiographically normal and dysplastic Labrador retrievers [see comments] Todhunter RJ, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1458–62. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

New aspects of endochondral ossification in the chick: chondrocyte apoptosis, bone formation by former chondrocytes, and acid phosphatase activity in the endochondral bone matrix. Roach HI. **J Bone Miner Res** 1997 May;12(5):795–805

Differential growth by growth plates as a function of multiple parameters of chondrocytic kinetics. Wilsman NJ, et al. **J Orthop Res** 1996 Nov;14(6):927–36

Growth and development of the distal radius and ulna. Pritchett JW. **J Pediatr Orthop** 1996 Sep–Oct;16(5):575–7

[Structure and function of the growth plate] Tillmann B, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep–Oct;134(5):396–9 (24 ref.) **(Ger)**

[The epiphysis (editorial)] Zichner L. **Z Orthop Ihre Grenzgeb** 1996 Sep–Oct;134(5):389–90 **(Ger)**

[The replacement processes of growth plate cartilage to bone in endochondral ossification of mandibular condyle] Sasaki T, et al. **Kaibogaku Zasshi** 1996 Apr;71(2):106–14 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

[Behavior of the growth cartilage submitted to hyperpressure] Sales de Gauzy J, et al. **Chirurgie** 1996; 121(4):280–4 **(Fre)**

RADIOGRAPHY

The use of helical computed tomographic scan to assess bony physeal bridges. Loder RT, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):356–9

SURGERY

Physeal surgery: indications and operative treatment. Guille JT, et al. **Am J Orthop** 1997 May;26(5):323–32 (57 ref.)

Comparison of various interpositional materials in the prevention of transphyseal bone bridge formation. Martiana K, et al. **Clin Orthop** 1996 Apr;(325):218–24

Comparison of different methods used to inhibit physeal growth in a rabbit model. Ross TK, et al. **Clin Orthop** 1997 Jul;(340):236–43

TRANSPLANTATION

Comparison of various interpositional materials in the prevention of transphyseal bone bridge formation. Martiana K, et al. **Clin Orthop** 1996 Apr;(325):218–24

[The vascularization characteristics of free transplants of the growth zones of the long tubular bones (experimental studies)] Nikitiuk IE, et al. **Vestn Khir Im I I Grek** 1995; 154(4–6):65–7 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Pathways of transmission of ultrasound energy through the distal metaphysis of the second phalanx of pigs: an in vitro study. Cadossi R, et al. **Osteoporos Int** 1996;6(3):196–206

ULTRASTRUCTURE

Matrix vesicles and focal proteoglycan aggregates are the nucleation sites revealed by the lanthanum incubation method: a correlated study on the hypertrophic zone of the rat epiphyseal cartilage. Gomez S, et al. **Calcif Tissue Int** 1996 Apr;58(4):273–82

Morphological and biochemical evidence for apoptosis in the terminal hypertrophic chondrocytes of the growth plate. Zenmyo M, et al. **J Pathol** 1996 Dec;180(4):430–3

GROWTH RETARDATION, INTRAUTERINE see **FETAL GROWTH RETARDATION**

GROWTH SUBSTANCES

see related

RECEPTORS, GROWTH FACTOR

Interleukin–8 as a growth factor for human colorectal carcinoma cells in vitro. Brew R, et al. **Biochem Soc Trans** 1997 May;25(2):264S

Proceedings of the 8th Tokyo Symposium on Growth Hormone and Related Factors. February 17, 1996. **Endocr J** 1996 Oct;43 Suppl:S1–146

Leukocyte–derived growth factor links the PDGF and CXC chemokine families of peptides. Iida N, et al. **FASEB J**

1996 Sep;10(11):1336–45
Growth factors, proteases and protease inhibitors in the maternal–fetal dialogue. Lala PK, et al. **Placenta** 1996 Nov; 17(8):545–55 (135 ref.)
Bibliographic update. **Prog Growth Factor Res** 1995; 6(1):49–76
Role of growth factors in graft vessel disease. Häyry P, et al. **Transplant Proc** 1997 Sep;29(6):2551

ADMINISTRATION & DOSAGE

Keratinocyte growth factor reduces lung damage due to acid instillation in rats. Yano T, et al.
Am J Respir Cell Mol Biol 1996 Oct;15(4):433–42
Polypeptide growth factors: targeted delivery systems. Nimni ME. **Biomaterials** 1997 Sep;18(18):1201–25 (228 ref.)
Acute administration of hexarelin stimulates GH secretion during day and night in normal men. Loche S, et al.
Clin Endocrinol (Oxf) 1997 Mar;46(3):275–9
Gel matrix vehicles for growth factor application in nerve gap injuries repaired with tubes: a comparison of biomatrix, collagen, and methylcellulose. Wells MR, et al.
Exp Neurol 1997 Aug;146(2):395–402
Is it time to ban all antibiotics as animal growth–promoting agents? [letter; comment] Burch DG. **Lancet** 1996 Nov 23; 348(9039):1455; discussion 1455–6. Comment on: Lancet 1996 Aug 31;348(9027):619.
Is it time to ban all antibiotics as animal growth–promoting agents? [letter; comment] Mudd AJ. **Lancet** 1996 Nov 23; 348(9039):1454; discussion 1455–6. Comment on: Lancet 1996 Aug 31;348(9027):619.
Prevention of bleomycin–induced lung injury in rats by keratinocyte growth factor. Deterding RR, et al.
Proc Assoc Am Physicians 1997 May;109(3):254–68
[Cutaneous wound healing: clinical evaluation of locally active growth factors—an overview] Coerper S, et al.
Zentralbl Chir 1996;121 Suppl:49–51 (21 ref.) **(Ger)**

ADVERSE EFFECTS

TNF–alpha release from human peripheral blood mononuclear cells to predict the proinflammatory activity of cytokines and growth factors. Oshiro Y, et al.
J Pharmacol Toxicol Methods 1997 Feb;37(1):55–9
Monitoring for clenbuterol abuse in N. Ireland 1989–1994. Elliott CT, et al. **Vet Q** 1996 Jun;18(2):41–4

ANALYSIS

Quantitative assessment of cytokines (GRO alpha and IL–10) in human seminal plasma during genitourinary inflammation. Rajasekaran M, et al.
Am J Reprod Immunol 1996 Aug;36(2):90–5
Quantification of immunohistochemical staining by color translation and automated thresholding. Ruifrok AC.
Anal Quant Cytol Histol 1997 Apr;19(2):107–13
Group II phospholipase A2 as an autocrine growth factor mediating interleukin–1 action on mesangial cells. Wada A, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):99–108
Expression of keratinocyte growth factor and its receptor in human breast cancer. Bansal GS, et al. **Br J Cancer** 1997; 75(11):1567–74
Intravitreal growth factors in proliferative diabetic retinopathy: correlation with neovascular activity and glycaemic management. Boulton M, et al.
Br J Ophthalmol 1997 Mar;81(3):228–33
Evidence for GAP–43 within descending spinal axons in the North American opossum, Didelphis virginiana. Zou XC, et al. **Brain Behav Evol** 1996;47(4):200–13
Distinct patterns of expression of keratinocyte growth factor and its receptor in endometrial carcinoma. Siegfried S, et al. **Cancer** 1997 Mar 15;79(6):1166–71
Chemokine levels in human liver homogenates: associations between GRO alpha and histopathological evidence of alcoholic hepatitis. Maltby J, et al. **Hepatology** 1996 Nov; 24(5):1156–60
Construction of a sensitive enzyme immunoassay for human fibroblast growth factor 9. Matsumoto–Yoshitomi S, et al. **Hybridoma** 1996 Aug;15(4):299–305
Intestinal effects of milkborne growth factors in neonates of agricultural importance. Odle J, et al. **J Anim Sci** 1996 Oct;74(10):2509–22 (120 ref.)
Platelet–derived growth factor, insulin–like growth factors, fibroblast growth factors and transforming growth factor beta do not account for the cell growth activity present in bovine milk. Belford DA, et al. **J Endocrinol** 1997 Jul; 154(1):45–55
A sensitive immunoassay to detect the alpha–chemokine GRO in rabbit blood and lung fluids. Kajikawa O, et al.
J Immunol Methods 1997 Jul 14;205(2):135–43
Localization of pleiotrophin and its mRNA in subpopulations of neurons and their corresponding axonal tracts suggests important roles in neural–glial interactions during development and in maturity. Silos–Santiago I, et al.
J Neurobiol 1996 Nov;31(3):283–96
Growth–regulated alpha expression in the peritoneal environment with endometriosis. Oral E, et al.
Obstet Gynecol 1996 Dec;88(6):1050–6
Newly cloned gene studied for possible role in breast cancer [news] **Oncology (Huntingt)** 1996 Nov;10(11):1658, 1661
[Breast carcinoma: evaluation of hormone receptors and pS2, erb–B2, P–glycoprotein and Ki–67 markers] Abadjian G, et al. **J Med Liban** 1996;44(1):10–5 (Eng. Abstr.) **(Fre)**

ANTAGONISTS & INHIBITORS see GROWTH INHIBITORS

BIOSYNTHESIS

Temporal expression of trefoil peptides in the TGF–alpha knockout mouse after gastric ulceration. Cook GA, et al.
Am J Physiol 1997 Jun;272(6 Pt 1):G1540–9
Growth–regulated alpha expression in human preovulatory follicles and ovarian cells. Oral E, et al.
Am J Reprod Immunol 1997 Jul;38(1):19–25
A new prognostic strategy for gastric carcinoma: mRNA expression of tumor growth–related factors in endoscopic biopsy specimens. Nakamura M, et al. **Ann Surg** 1997 Jul; 226(1):35–42
Induction of heparin binding epidermal growth factor–like growth factor and amphiregulin mRNAs by gastrin in the rat stomach. Tsutsui S, et al.
Biochem Biophys Res Commun 1997 Jun 27;235(3):520–3
cDNA and genomic cloning and expression of the P48 monocytic differentiation/activation factor, a Mycoplasma fermentans gene product. Hall RE, et al. **Biochem J** 1996 Nov 1;319 (Pt 3):919–27
Activation of paracrine growth factors by heparan sulphate induced by glucocorticoid in A549 lung carcinoma cells. Yevdokimova N, et al. **Br J Cancer** 1997;76(3):281–9
Transganglionic response of GAP–43 in the gracile nucleus to sciatic nerve injury in young and aged rats. Ohara S, et al. **Brain Res** 1995 Dec 24;705(1–2):325–31
The growth–associated protein GAP–43 is specifically expressed in tyrosine hydroxylase–positive cells of the rat retina. Kapfhammer JP, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):257–64
A second trefoil protein, ITF/hP1.B, is transcribed in human breast cancer. Theisinger B, et al.
Breast Cancer Res Treat 1996;38(2):145–51
Interleukin (IL)–10 and IL–6 are produced in vivo by non–Hodgkin's lymphoma cells and act as cooperative growth factors. Voorzanger N, et al. **Cancer Res** 1996 Dec 1;56(23):5499–505
Histomorphological and immunohistochemical characterization of colonic aberrant crypt foci in rats: relationship to growth factor expression. Thorup I.
Carcinogenesis 1997 Mar;18(3):465–72
Differential regulation of human fibroblast growth factor 1 transcripts provides a distinct mechanism of cell–specific growth factor expression. Chotani MA, et al.
Cell Growth Differ 1997 Sep;8(9):999–1013
Human connective tissue growth factor is expressed in advanced atherosclerotic lesions. Oemar BS, et al.
Circulation 1997 Feb 18;95(4):831–9
IL–1 upregulates keratinocyte growth factor and hepatocyte growth factor mRNA and protein production by cultured stromal fibroblast cells: interleukin–1 beta expression in the cornea. Weng J, et al. **Cornea** 1997 Jul;16(4):465–71
Differential changes in the concentrations of cytokine–induced neutrophil chemoattractant (CINC)–1 and CINC–2 in exudate during rat lipopolysaccharide–induced inflammation. Shibata F, et al.
Cytokine 1996 Mar;8(3):222–6
A differential display strategy identifies Cryptic, a novel EGF–related gene expressed in the axial and lateral mesoderm during mouse gastrulation. Shen MM, et al.
Development 1997 Jan;124(2):429–42
Influence of age on the production of interleukin–8–like chemokine (GRO/CINC–1) in rat nasal mucosa. Himi T, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):101–4
Increased growth factor transcription after pulmonary artery banding. Bauer EP, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):818–23
Effects of UVB irradiation on keratinocyte growth factor (KGF) and receptor (KGFR) expression in cultured human keratinocytes. Zhou Y, et al. **Exp Dermatol** 1996 Jun; 5(3):138–44
Application of a gene transfer strategy to identify molecules that incite autoimmune kidney injury. Kelley VR, et al.
Exp Nephrol 1997 Mar–Apr;5(2):144–51
Human intestinal trefoil factor is expressed in human hypothalamus and pituitary: evidence for a novel neuropeptide. Probst JC, et al. **FASEB J** 1996 Nov; 10(13):1518–23
Neutrophil elastase inhibitor reduces neutrophil chemoattractant production after ischemia–reperfusion in rat liver. Yamaguchi Y, et al. **Gastroenterology** 1997 Feb; 112(2):551–60
Kupffer cell production of cytokine–induced neutrophil chemoattractant following ischemia/reperfusion injury in rats. Hisama N, et al. **Hepatology** 1996 Nov;24(5):1193–8
Pretreatment with activated protein C or active human urinary thrombomodulin attenuates the production of cytokine–induced neutrophil chemoattractant following ischemia/reperfusion in rat liver. Yamaguchi Y, et al.
Hepatology 1997 May;25(5):1136–40
The inhibitory effect of pentamidine on the production of chemotactic cytokines by in vitro stimulated human blood cells. Van Wauwe J, et al. **Inflamm Res** 1996 Jul; 45(7):357–63
Gender differences in neutrophil function and cytokine–induced neutrophil chemoattractant generation in endotoxic rats. Spitzer JA, et al. **Inflammation** 1996 Oct; 20(5):485–98
The cytokines NAP–1 (IL–8), MCP–1, IL–1 beta, and GRO in rabbit inflammatory skin lesions produced by the chemical irritant sulfur mustard. Tsuruta J, et al.
Inflammation 1996 Jun;20(3):293–318
Mouse fibroblast activation protein: molecular cloning, alternative splicing and expression in the reactive stroma of epithelial cancers. Niedermeyer J, et al. **Int J Cancer** 1997 May 2;71(3):383–9
Differential expression of fibroblast growth factor receptors during rat lens morphogenesis and growth. de Iongh RU, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1688–99
High lung inflation increases mRNA levels of ECM components and growth factors in lung parenchyma. Berg JT, et al. **J Appl Physiol** 1997 Jul;83(1):120–8
Identification of histone H2A.X as a growth factor secreted by an androgen–independent subline of mouse mammary carcinoma cells. Watabe Y, et al. **J Biol Chem** 1996 Oct 11;271(41):25126–30
Surface roughness modulates the local production of growth factors and cytokines by osteoblast–like MG–63 cells. Kieswetter K, et al. **J Biomed Mater Res** 1996 Sep; 32(1):55–63
A comparison of cytokine and hormone production by decidual cells and tissue explants. Lonsdale LB, et al.
J Endocrinol 1996 Nov;151(2):309–13
Amphiregulin and nerve growth factor expression are regulated by barrier status in murine epidermis. Liou A, et al. **J Invest Dermatol** 1997 Jan;108(1):73–7
Constitutive cytokine release by simian T–cell lymphotrophic virus type I (STLV–I) and human T–cell lymphotrophic virus types I/II (HTLV–I/II) transformed cell lines. Lazo A, et al. **J Med Primatol** 1996 Aug;25(4):257–66
Differential expression of glomerular extracellular matrix and growth factor mRNA in rapid and slowly progressive glomerulosclerosis: studies in mice transgenic for native or mutated growth hormone. Yang CW, et al.
Lab Invest 1997 Apr;76(4):467–76
Alternative splice variants of cytokines: making a list. Atamas SP. **Life Sci** 1997;61(12):1105–12 (53 ref.)
Enhanced expression of nucleobindin in lymphatic organs of lupus–prone mice. Iizuka H, et al. **Lupus** 1997; 6(4):365–70
Cartilage morphogenesis: role of bone and cartilage morphogenetic proteins, homeobox genes and extracellular matrix. Reddi AH. **Matrix Biol** 1995 Oct;14(8):599–606 (64 ref.)
The Xenopus homologue of hepatocyte growth factor–like protein is specifically expressed in the presumptive neural plate during gastrulation. Aberger F, et al. **Mech Dev** 1996 Jan;54(1):23–37
Motor neurons in human and rat spinal cord synthesize fibroblast growth factor–9. Nakamura S, et al.
Neurosci Lett 1997 Jan 17;221(2–3):181–4
Expression of midkine and pleiotropin in ovarian tumors. Nakanishi T, et al. **Obstet Gynecol** 1997 Aug;90(2):285–90
Expression of teratocarcinoma–derived growth factor–1 (TDGF–1) in testis germ cell tumors and its effects on growth and differentiation of embryonal carcinoma cell line NTERA2/D1. Baldassarre G, et al. **Oncogene** 1997 Aug 18;15(8):927–36
Keratinocyte growth factor expression in hormone insensitive prostate cancer. Leung HY, et al. **Oncogene** 1997 Aug 28; 15(9):1115–20
Effects of propentofylline on tumor necrosis factor–alpha and cytokine–induced neutrophil chemoattractant production in rats with cerulein–induced pancreatitis and endotoxemia. Sugita H, et al. **Pancreas** 1997 Apr;14(3):267–75
Identification of a c–fos–induced gene that is related to the platelet–derived growth factor/vascular endothelial growth factor family [published erratum appears in Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1603] Orlandini M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11675–80
Intragraft cytokine and growth factor mRNA expression in relation to graft vascular disease after heart transplantation. Baan CC, et al. **Transplant Proc** 1997 Sep;29(6):2535–6
Ischemia induced upregulation of growth factor expression in experimental transplant arteriosclerosis. Fellström B, et al. **Transplant Proc** 1997 Sep;29(6):2558
Effect of locally and systemically administered angiopeptin on growth factor expression in syngeneic deendothelialized heterotopic aorta grafts in the rat. Motomura N, et al.
Transplant Proc 1997 Sep;29(6):2563–4
Inhibition of CD28–B7 T–cell costimulatory activation pathway affects intragraft cytokine and growth factor expression in chronic renal allograft rejection. Nadeau K, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1038
In situ expression of cell growth factors in human renal chronic graft rejection. Vuillemin T, et al.
Transplant Proc 1997 Feb–Mar;29(1–2):1513–4
Chronic rejection and cell growth factors. Vuillemin T, et al. **Transplant Proc** 1996 Oct;28(5):2831–2

BLOOD

GRO–alpha in human serum: differences related to age and sex. Kanda Y, et al. **Am J Reprod Immunol** 1997 Jul; 38(1):33–8
Net fluxes over working thigh of hormones, growth factors and biomarkers of bone metabolism during short lasting dynamic exercise. Brahm H, et al. **Calcif Tissue Int** 1997 Feb;60(2):175–80
Growth response and levels of growth factors after two years growth hormone treatment are similar for a once and twice daily injection regimen in girls with Turner syndrome.

(Dutch Working Group on Growth Hormone). van Teunenbroek A, et al. **Clin Endocrinol (Oxf)** 1997 Apr; 46(4):451–9

Biomarkers of gene expression: growth factors and oncoproteins. Brandt-Rauf PW. **Environ Health Perspect** 1997 Jun;105 Suppl 4:807–16 (125 ref.)

Exercise-induced changes in circulating growth factors with cyclic variation in plasma estradiol in women. Hornum M, et al. **J Appl Physiol** 1997 Jun;82(6):1946–51

Serum levels of interleukins, growth factors and angiogenin in patients with endometrial cancer. Chopra V, et al. **J Cancer Res Clin Oncol** 1997;123(3):167–72

Simultaneous determination of glycyl-L-histidyl-L-lysine and its metabolite, L-histidyl-L-lysine, in rat plasma by high-performance liquid chromatography with post-column derivatization. Endo T, et al. **J Chromatogr B Biomed Appl** 1997 Apr 25;692(1):37–42

A sensitive immunoassay to detect the alpha-chemokine GRO in rabbit blood and lung fluids. Kajikawa O, et al. **J Immunol Methods** 1997 Jul 14;205(2):135–43

Immunoreactive inhibin, müllerian inhibitory substance, and activin as biochemical markers for juvenile granulosa cell tumors. Silverman LA, et al. **J Pediatr** 1996 Dec; 129(6):918–21 (20 ref.)

Growth promoting peptides in diabetic and non-diabetic pregnancy: interactions with trophoblastic receptors and serum carrier proteins. Culler FL, et al. **J Pediatr Endocrinol Metab** 1996 Jan-Feb;9(1):21–9

Breast-feeding and growth factors in preterm newborn infants. Díaz-Gómez NM, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):322–7

CEREBROSPINAL FLUID

Altered intermediate filament expression in human neuroblastoma cells transformed by a growth-promoting agent derived from schizophrenic CSF. Shirabe S, et al. **Cell Mol Neurobiol** 1997 Feb;17(1):1–11

CHEMISTRY

Transplantation of human endothelial cell monolayer on artificial vascular prosthesis: the effect of growth-support surface chemistry, cell seeding density, ECM protein coating, and growth factors. Sipehia R, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan; 24(1):51–63

Hepatoma-derived growth factor belongs to a gene family in mice showing significant homology in the amino terminus. Izumoto Y, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):26–32

Urokinase plasminogen activator induces smooth muscle cell migration: key role of growth factor-like domain. Stepanova V, et al. **FEBS Lett** 1997 Sep 8;414(2):471–4

Characterization of a novel gene product (mammalian tolloid-like) with high sequence similarity to mammalian tolloid/bone morphogenetic protein-1. Takahara K, et al. **Genomics** 1996 Jun 1;34(2):157–65

Subunit association and monomer structure of CINC/Gro revealed by 1H-NMR. Hanzawa H, et al. **J Biochem (Tokyo)** 1997 May;121(5):835–41

Partial purification and characterization of serum embryotrophic factor required for early postimplantation growth of rat embryos in culture. Usami M, et al. **J Exp Zool** 1996 Dec 15;276(6):403–14

Stabilization of recombinant human keratinocyte growth factor by osmolytes and salts. Chen BL, et al. **J Pharm Sci** 1996 Apr;85(4):419–26

Analysis of the structure and expression of the augmenter of liver regeneration (ALR) gene. Giorda R, et al. **Mol Med** 1996 Jan;2(1):97–108

Identification of a c-fos-induced gene that is related to the platelet-derived growth factor/vascular endothelial growth factor family [published erratum appears in Proc Natl Acad Sci U S A 1997 Feb 18;94(4):1603] Orlandini M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11675–80

Biochemical and mitogenic properties of the heparin-binding growth factor HARP. Laaroubi K, et al. **Prog Growth Factor Res** 1995;6(1):25–34 (49 ref.)

Nuclear magnetic resonance assignment and secondary structure of an ankyrin-like repeat-bearing protein: myotrophin. Yang Y, et al. **Protein Sci** 1997 Jun; 6(6):1347–51

DEFICIENCY

Age-related bone loss and senile osteoporosis: evidence for both secondary hyperparathyroidism and skeletal growth factor deficiency in the elderly. Boonen S, et al. **Aging (Milano)** 1995 Dec;7(6):414–22 (90 ref.)

DIAGNOSTIC USE

Absence of desensitization by hexarelin to subsequent GH releasing hormone-mediated GH secretion in patients with anorexia nervosa. Popovic V, et al. **Clin Endocrinol (Oxf)** 1997 May;46(5):539–43

GENETICS

Induction of FGF-7 after kidney damage: a possible paracrine mechanism for tubule repair. Ichimura T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):F967–76

Mechanisms of CCK regulation of monitor peptide mRNA expression in pancreatic acinar AR42J cells. Kinouchi T, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G794–801

Basic determinants of myocardial hypertrophy: a review of molecular mechanisms. Copper G 4th. **Annu Rev Med** 1997; 48:13–23 (53 ref.)

Changes in protein and mRNA levels of growth factor/growth factor receptors in rat livers after administration of phenobarbitone or methylclofenapate. Garcia-Allan C, et al. **Arch Toxicol** 1997;71(7):409–15

Connective tissue growth factor. Friend or foe? Oemar BS, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1483–9 (40 ref.)

Hepatoma-derived growth factor belongs to a gene family in mice showing significant homology in the amino terminus. Izumoto Y, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):26–32

Pepsinogen C gene product is a possible growth factor during gastric mucosal healing. Kishi K, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):17–20

Cloning of a mRNA preferentially expressed in chondrocytes by differential display-PCR from a human chondrocytic cell line that is identical with connective tissue growth factor (CTGF) mRNA. Nakanishi T, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):206–10

Molecular cloning of rat macrophage-stimulating protein and its involvement in the male reproductive system. Ohshiro K, et al. **Biochem Biophys Res Commun** 1996 Oct 3; 227(1):273–80

FGF-8 is expressed during specific phases of rodent oocyte and spermatogonium development. Valve E, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):173–7

cDNA cloning of rat pS2 peptide and expression of trefoil peptides in acetic acid-induced colitis. Itoh H, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):939–44

Murine and pediatric myocardial growth factor mRNA expression using reverse transcription-polymerase chain reaction. Shaddy RE, et al. **Biochem Mol Med** 1996 Feb; 57(1):10–3

PCR phenotyping of cytokines, growth factors and their receptors and bone matrix proteins in human osteoblast-like cell lines. Bilbe G, et al. **Bone** 1996 Nov;19(5):437–45

Is the lack of protein F1/GAP-43 mRNA in granule cells target-dependent? Meberg PJ, et al. **Brain Res** 1996 Jan 15;706(2):217–26

GAP-43 mRNA expression in early development of human nervous system. Kanazir S, et al. **Brain Res Mol Brain Res** 1996 May;38(1):145–55

Antagonistic interactions between FGF and BMP signaling pathways: a mechanism for positioning the sites of tooth formation. Neubüser A, et al. **Cell** 1997 Jul 25;90(2):247–55

Differential regulation of human fibroblast growth factor 1 transcripts provides a distinct mechanism of cell-specific growth factor expression. Chotani MA, et al. **Cell Growth Differ** 1997 Sep;8(9):999–1013

Molecular cloning and characterization of human FGF8 alternative messenger RNA forms. Ghosh AK, et al. **Cell Growth Differ** 1996 Oct;7(10):1425–34

A novel transforming growth factor beta response element controls the expression of the connective tissue growth factor gene. Grotendorst GR, et al. **Cell Growth Differ** 1996 Apr;7(4):469–80

Induction of ductal morphogenesis and lobular hyperplasia by amphiregulin in the mouse mammary gland. Kenney NJ, et al. **Cell Growth Differ** 1996 Dec;7(12):1769–81

Receptor-selective retinoids implicate retinoic acid receptor alpha and gamma in the regulation of bmp-2 and bmp-4 in F9 embryonal carcinoma cells. Rogers MB. **Cell Growth Differ** 1996 Jan;7(1):115–22

Rat hypothalamus neuron-like cells in primary culture accumulate and translate mRNA coding for the amphibian P-domain peptide xP1. Probst JC, et al. **Cell Mol Neurobiol** 1997 Jun;17(3):333–40

Spatial and temporal relationships between Shh, Fgf4, and Fgf8 gene expression at diverse signalling centers during mouse development. Bueno D, et al. **Dev Dyn** 1996 Nov; 207(3):291–9

Understanding mammary gland development through the imbalanced expression of growth regulators. Robinson GW, et al. **Dev Dyn** 1996 Jun;206(2):159–68

XFGF-9: a new fibroblast growth factor from Xenopus embryos. Song J, et al. **Dev Dyn** 1996 Aug;206(4):427–36

Joint patterning defects caused by single and double mutations in members of the bone morphogenetic protein (BMP) family. Storm EE, et al. **Development** 1996 Dec; 122(12):3969–79

Analysis of growth factor and receptor mRNA levels during development of the rat seminal vesicle and prostate. Thomson AA, et al. **Development** 1997 Jun;124(12):2431–9

Human monocytes express amphiregulin and heregulin growth factors upon activation. Mograbi B, et al. **Eur Cytokine Netw** 1997 Mar;8(1):73–81

Human trefoil peptides: genomic structure in 21q22.3 and coordinated expression. Gött P, et al. **Eur J Hum Genet** 1996;4(6):308–15

GAP-43 mRNA in mouse motoneurons undergoing axonal sprouting in response to muscle paralysis of partial denervation. Bisby MA, et al. **Eur J Neurosci** 1996 Jun; 8(6):1240–8

Targets for gene therapy of Parkinson's disease: growth factors, signal transduction, and promoters. During MJ, et al. **Exp Neurol** 1997 Mar;144(1):74–81 (65 ref.)

Production and purification of novel secreted human proteins. Coleman TA, et al. **Gene** 1997 Apr 29; 190(1):163–71

Role of the composite glucocorticoid response element in proliferin gene expression. Hoeppner MA, et al. **Gene Expr** 1995;5(2):133–41

The gene encoding human intestinal trefoil factor (TFF3) is located on chromosome 21q22.3 clustered with other members of the trefoil peptide family. Chinery R, et al. **Genomics** 1996 Mar 1;32(2):281–4

Assignment of a new TGF-beta superfamily member, human cartilage-derived morphogenetic protein-1, to chromosome 20q11.2. Lin K, et al. **Genomics** 1996 May 15;34(1):150–1

Organization of the human gene for nucleobindin (NUC) and its chromosomal assignment to 19q13.2-q13.4. Miura K, et al. **Genomics** 1996 Jun 1;34(2):181–6

The three human trefoil genes TFF1, TFF2, and TFF3 are located within a region of 55 kb on chromosome 21q22.3. Seib T, et al. **Genomics** 1997 Feb 15;40(1):200–2

Mapping of the gene encoding the human hepatoma-derived growth factor (HDGF) with homology to the high-mobility group (HMG)-1 protein to Xq25. Wanschura S, et al. **Genomics** 1996 Mar 1;32(2):298–300

Sequence of keratinocyte growth factor and keratinocyte growth factor receptor orthologs [monkey, pig, rabbit] [letter] Doyle MP, et al. **In Vitro Cell Dev Biol Anim** 1996 Jun;32(6):318–20

Expression of connective tissue growth factor mRNA in the fibrous stroma of mammary tumors. Frazier KS, et al. **Int J Biochem Cell Biol** 1997 Jan;29(1):153–61

Amphiregulin antisense oligonucleotide inhibits the growth of T3M4 human pancreatic cancer cells and sensitizes the cells to EGF receptor-targeted therapy. Funatomi H, et al. **Int J Cancer** 1997 Jul 29;72(3):512–7

Mouse fibroblast activation protein: molecular cloning, alternative splicing and expression in the reactive stroma of epithelial cancers. Niedermeyer J, et al. **Int J Cancer** 1997 May 2;71(3):383–9

Differential induction of GRO alpha gene expression in human corneal epithelial cells and keratocytes exposed to proinflammatory cytokines. Cubitt CL, et al. **Invest Ophthalmol Vis Sci** 1997 May;38(6):1149–58

Mutation of Cys672 allows recombinant expression of activatible macrophage-stimulating protein. Wahl RC, et al. **J Biol Chem** 1997 Jun 13;272(24):15053–6

Differential regulation of keratinocyte growth factor and hepatocyte growth factor/scatter factor by different cytokines in human corneal and limbal fibroblasts. Li DQ, et al. **J Cell Physiol** 1997 Sep;172(3):361–72

Differential screening of a human chromosome 3 library identifies hepatocyte growth factor-like/macrophage-stimulating protein and its receptor in injured lung. Possible implications for neuroendocrine cell survival. Willett CG, et al. **J Clin Invest** 1997 Jun 15;99(12):2979–91

Regulation of keratinocyte growth factor gene expression in human skin fibroblasts. Tang A, et al. **J Dermatol Sci** 1996 Jan;11(1):41–50

Differential expression of GRO-alpha and IL-8 mRNA in psoriasis: a model for neutrophil migration and accumulation in vivo. Gillitzer R, et al. **J Invest Dermatol** 1996 Nov;107(5):778–82

Expression of growth factor ligand and receptor genes in rat cancellous bone trabeculae and marrow. Watson PH, et al. **J Mol Endocrinol** 1996 Aug;17(1):45–54

A possible growth factor role of IL-6 in neuroectodermal tumours. Candi E, et al. **J Neurooncol** 1997 Jan; 31(1-2):115–22

Expression of human intestinal trefoil factor in malignant cells and its regulation by oestrogen in breast cancer cells. May FE, et al. **J Pathol** 1997 Aug;182(4):404–13

Genetic linkage analysis of growth factor loci and end-stage renal disease in African Americans. Freedman BI, et al. **Kidney Int** 1997 Mar;51(3):819–25

Effects of hypoxia on growth factor expression in the rat kidney in vivo. Krämer BK, et al. **Kidney Int** 1997 Feb; 51(2):444–7

The trefoil gene maps to mouse chromosome 17. Burmeister M, et al. **Mamm Genome** 1997 Mar;8(3):223–4

Mouse fgf9 (fibroblast growth factor 9) is localized on chromosome 14. Mattei MG, et al. **Mamm Genome** 1997 Aug;8(8):617–8

A chick wingless mutation causes abnormality in maintenance of Fgf8 expression in the wing apical ridge, resulting in loss of the dorsoventral boundary. Ohuchi H, et al. **Mech Dev** 1997 Feb;62(1):3–13

Adhesion-dependent regulation of an A+U-rich element-binding activity associated with AUF1. Sirenko OI, et al. **Mol Cell Biol** 1997 Jul;17(7):3898–906

Expression of amphiregulin in the sheep mammary gland. Forsyth IA, et al. **Mol Cell Endocrinol** 1997 Jan 3; 126(1):41–8

Expression and function of amphiregulin during murine preimplantation development. Tsark EC, et al. **Mol Reprod Dev** 1997 Jul;47(3):271–83

Trefoil peptides in the defense of the gastrointestinal tract. Plaut AG. **N Engl J Med** 1997 Feb 13;336(7):506–7 (4 ref.)

Mutations in CDMP1 cause autosomal dominant brachydactyly type C [letter] Polinkovsky A, et al. **Nat Genet** 1997 Sep;17(1):18–9

Disruption of human limb morphogenesis by a dominant negative mutation in CDMP1. Thomas JT, et al.

Nat Genet 1997 Sep;17(1):58–64

The human growth factor–inducible immediate early gene, CYR61, maps to chromosome 1p. Jay P, et al. **Oncogene** 1997 Apr 10;14(14):1753–7

egl–17 encodes an invertebrate fibroblast growth factor family member required specifically for sex myoblast migration in Caenorhabditis elegans. Burdine RD, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2433–7

The melanoma differentiation associated gene mda–7 suppresses cancer cell growth. Jiang H, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9160–5

Induction and differentiation of extra–embryonic mesoderm in the mouse. Boucher DM, et al. **Reprod Fertil Dev** 1996; 8(4):765–77 (121 ref.)

Effects of TCDD on Ah receptor, ARNT, EGF, and TGF–alpha expression in embryonic mouse urinary tract. Bryant PL, et al. **Teratology** 1997 May;55(5):326–37

Differential gene expression of transforming growth factors alpha and beta, epidermal growth factor, keratinocyte growth factor, and their receptors in fetal and adult human prostatic tissues and cancer cell lines. Dahiya R, et al. **Urology** 1996 Dec;48(6):963–70

[Possibilities of gene therapy in traumatic and degenerative articular lesions. Current status of experimental and initial clinical applications] Gerich TG, et al. **Orthopade** 1997 May;26(5):450–8 (92 ref.) (Eng. Abstr.) **(Ger)**

[Gene transfer into the patellar tendon of rabbits: a preliminary study of locoregional expression of growth factors] Gerich TG, et al. **Wien Klin Wochenschr** 1997 Jun 6;109(11):384–9 (Eng. Abstr.) **(Ger)**

[Cloning cDNA for the ha–SDGF gene from a Syrian hamster cell line with increased metastatic potential using subtractive hybridization] Gurskaia NG, et al. **Bioorg Khim** 1996 Jun;22(6):425–31 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

New therapeutic possibility of blocking cytokine–induced neutrophil chemoattractant on transient ischemic brain damage in rats. Yamasaki Y, et al. **Brain Res** 1997 Jun 6; 759(1):103–11

Effects of active immunization against clenbuterol on the growth–promoting effect of clenbuterol in rats. Kim YH, et al. **J Anim Sci** 1997 Feb;75(2):446–53

Unique recognition of activin and inhibin by polyclonal antibodies to inhibin subunits. Funaba M, et al. **J Biochem (Tokyo)** 1996 May;119(5):953–60

Generation of antibodies to human IL–12 and amphiregulin by immunization of Balb/c mice with diepitope multiple antigen peptides. Ahlborg N, et al. **J Immunol Methods** 1997 May 12;204(1):23–32

ISOLATION & PURIFICATION

Control of cell proliferation by embryonal–origin factors. Barnea ER, et al. **Am J Reprod Immunol** 1996 Apr; 35(4):318–24

A growth factor activity in bovine milk. Liu QM, et al. **Biochem Soc Trans** 1996 Aug;24(3):342S

Cyr61 and Fisp12 are both ECM–associated signaling molecules: activities, metabolism, and localization during development. Kireeva ML, et al. **Exp Cell Res** 1997 May 25;233(1):63–77

Purification of autocrine growth factor from conditioned medium of rat sarcoma (XC) cells. Chęciówna D, et al. **Folia Histochem Cytobiol** 1996;34(3–4):135–40

Identification of a novel growth–promoting factor with a wide target cell spectrum from various tumor cells as catalase. Miyamoto T, et al. **J Biochem (Tokyo)** 1996 Oct; 120(4):725–30

Purification and characterization of novel heparin–binding growth factors in uterine secretory fluids. Identification as heparin–regulated Mr 10,000 forms of connective tissue growth factor. Brigstock DR, et al. **J Biol Chem** 1997 Aug 8;272(32):20275–82

A novel growth–promoting factor derived from fetal bovine cartilage, chondromodulin II. Purification and amino acid sequence. Hiraki Y, et al. **J Biol Chem** 1996 Sep 13; 271(37):22657–62

Identification of an autocrine mechanism for regulating cell–cycle progression in murine keratinocytes. Curtin GM, et al. **J Cancer Res Clin Oncol** 1997;123(2):71–81

Isolation of osteogenic growth peptide from osteoblastic MC3T3 E1 cell cultures and demonstration of osteogenic growth peptide binding proteins. Greenberg Z, et al. **J Cell Biochem** 1997 Jun 1;65(3):359–67

Partial purification of smooth muscle cell derived growth factor. Yang S, et al. **J Tongji Med Univ** 1996;16(2):78–82

Isolation and N–terminal sequence of multiple forms of granulins in human urine. Sparro G, et al. **Protein Expr Purif** 1997 Jul;10(2):169–74

[Partial purification of endogenous growth factor(s) of retinal pigment epithelial cells from neural retina] Katoh K, et al. **Nippon Ganka Gakkai Zasshi** 1996 Feb;100(2):145–9 (Eng. Abstr.) **(Jpn)**

[Isolation of growth modulating factors secreted by human malignant melanoma cells] Sukhanov VA, et al. **Biokhimiia** 1996 Apr;61(4):697–706 (Eng. Abstr.) **(Rus)**

[Peptide–like substances in sheep amniotic fluid which regulate proliferation of BP–A31 cells] Blahovec J, et al. **Vet Med (Praha)** 1997 Jul;42(7):185–9 (Eng. Abstr.) **(Slo)**

METABOLISM

Growth factors during endotoxin–induced otitis media. Demaria TF, et al. **Acta Otolaryngol (Stockh)** 1996 Nov; 116(6):854–6

Differential binding of fibroblast growth factor–2 and –7 to basement membrane heparan sulfate: comparison of normal and abnormal human tissues. Friedl A, et al. **Am J Pathol** 1997 Apr;150(4):1443–55

Increased expression of cytokine–induced neutrophil chemoattractant in septic rat liver. Deutschman CS, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R593–600

Trefoil peptide expression and secretion is regulated by neuropeptides and acetylcholine. Ogata H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G348–54

Mechanical forces alter growth factor release by pleural mesothelial cells. Waters CM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L552–7

Growth factors in subglottic stenosis. Scioscia KA, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):936–43

Identification and characterization of receptor for cytokine–induced neutrophil chemoattractant–3 on rat neutrophils. Murakami K, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):562–7

Characterization of a putative receptor for intestinal trefoil factor in rat small intestine: identification by in situ binding and ligand blotting. Tan XD, et al. **Biochem Biophys Res Commun** 1997 Aug 28;237(3):673–7

Expression of the trefoil polypeptide ITF in PC12 cells. Probst JC, et al. **Biochem Mol Biol Int** 1997 Jun; 42(2):425–32

Oxidative inactivation of thioredoxin as a cellular growth factor and protection by a Cys73—>Ser mutation. Gasdaska JR, et al. **Biochem Pharmacol** 1996 Dec 13; 52(11):1741–7

Partitioning of a–factor analogues into membranes: analysis of binding and importance for biological activity. Khouri O, et al. **Biochemistry** 1996 Nov 19;35(46):14553–60

Activin and follistatin as local regulators in the human ovary. Peng C, et al. **Biol Signals** 1996 Mar–Apr;5(2):81–9 (51 ref.)

Does (anti) growth factor intervention in the mechanism scheme of atheroma offer us a synthetic simplification or more chaotic complexity? [editorial] Mathé G. **Biomed Pharmacother** 1996;50(6–7):233–4 (13 ref.)

What are the clinical benefits of correcting the catabolic state in haemodialysis patients? Jensen PB, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:47–51

Increased expression of angiogenic growth factors in age–related maculopathy. Kliffen M, et al. **Br J Ophthalmol** 1997 Feb;81(2):154–62

Cytokine and growth factor immunohistochemical spinal profiles in two animal models of mononeuropathy. DeLeo JA, et al. **Brain Res** 1997 Jun 6;759(1):50–7

Flt–1 but not KDR/Flk–1 tyrosine kinase is a receptor for placenta growth factor, which is related to vascular endothelial growth factor. Sawano A, et al. **Cell Growth Differ** 1996 Feb;7(2):213–21

Spectroscopic characterization of the inclusion complex of a luteinizing hormone–releasing hormone agonist, buserelin acetate, with dimethyl–beta–cyclodextrin. Matsubara K, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):378–83

T–lymphocyte populations, cytokines and other growth factors in serum and urine of children with idiopathic nephrotic syndrome. Daniel V, et al. **Clin Nephrol** 1997 May;47(5):289–97

Growth factor and neurotrophic factor mRNA in human lacrimal gland. Nguyen DH, et al. **Cornea** 1997 Mar; 16(2):192–9

Molecular and cell biology of native coronary and vein–graft atherosclerosis: regulation of plaque stability and vessel–wall remodelling by growth factors and cell–extracellular matrix interactions. Newby AC. **Coron Artery Dis** 1997 Mar–Apr;8(3–4):213–24 (76 ref.)

Keratocyte migration and peptide growth factors: the effect of PDGF, bFGF, EGF, IGF–I, aFGF and TGF–beta on human keratocyte migration in a collagen gel. Andresen JL, et al. **Curr Eye Res** 1997 Jun;16(6):605–13

The effect of scatter laser photocoagulation on intravitreal levels of growth factors in the miniature pig. Xiao M, et al. **Curr Eye Res** 1996 Sep;15(9):923–31

Src family protein tyrosine kinases: cooperating with growth factor and adhesion signaling pathways. Parsons JT, et al. **Curr Opin Cell Biol** 1997 Apr;9(2):187–92 (56 ref.)

Hormone, growth factor, and vitamin handling by proximal tubule cells. Christensen EI, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):20–7 (134 ref.)

Modulations of cellular interactions during development of the neural crest: role of growth factors and adhesion molecules. Duband JL, et al. **Curr Top Microbiol Immunol** 1996;212:207–27 (96 ref.)

Phospholipase C–gamma1: regulation of enzyme function and role in growth factor–dependent signal transduction. Kamat A, et al. **Cytokine Growth Factor Rev** 1997 Jun; 8(2):109–17 (86 ref.)

Keratinocyte growth factor and its receptor are involved in regulating early lung branching. Post M, et al. **Development** 1996 Oct;122(10):3107–15

Growth factor alterations in advanced diabetic retinopathy: a possible role of blood retina barrier breakdown. Pfeiffer A, et al. **Diabetes** 1997 Sep;46 Suppl 2:S26–30 (37 ref.)

Enhanced expression of cytokine–induced neutrophil chemoattractant (CINC) by bronchoalveolar macrophages in cerulein–induced pancreatitis rats. Sugita H, et al. **Dig Dis Sci** 1997 Jan;42(1):154–60

The uterine myometrium is a target for increased levels of activin A during pregnancy. Draper LB, et al. **Endocrinology** 1997 Jul;138(7):3042–6

The effects of growth factors associated with osteoblasts on prostate carcinoma proliferation and chemotaxis: implications for the development of metastatic disease. Ritchie CK, et al. **Endocrinology** 1997 Mar;138(3):1145–50

Presence and function of growth factors in the avian ovary. van Nassauw L, et al. **Eur J Morphol** 1997 Jul;35(3):171–80 (59 ref.)

Extracellular matrix penetration by epithelial cells is influenced by quantitative changes in basement membrane components and growth factors. Stadler E, et al. **Exp Cell Res** 1996 Dec 15;229(2):360–9

Expression of growth factor mRNAs by human Tenon's capsule fibroblasts. Tripathi RC, et al. **Exp Eye Res** 1996 Sep;63(3):339–46

Vascularised vitreoretinopathy: the role of growth factors [see comments] Boulton ME, et al. **Eye** 1996;10 (Pt 6):691–6 (49 ref.). Comment in: Eye 1996 ;10 (Pt 6):651–2.

Regulation of STAT–dependent pathways by growth factors and cytokines. Leaman DW, et al. **FASEB J** 1996 Dec; 10(14):1578–88 (104 ref.)

Growth factors in the extracellular matrix. Taipale J, et al. **FASEB J** 1997 Jan;11(1):51–9 (74 ref.)

Rolling in the clover: trefoil factor family (TFF)–domain peptides, cell migration and cancer. Wright NA, et al. **FEBS Lett** 1997 May 19;408(2):121–3 (20 ref.)

Immune cell infiltration and growth–associated protein 43 expression correlate with pain in chronic pancreatitis [see comments] Di Sebastiano P, et al. **Gastroenterology** 1997 May;112(5):1648–55. Comment in: Gastroenterology 1997 May;112(5):1762–5.

Comparison of growth factor receptors and metabolic characteristics of satellite cells derived from the biceps femoris and pectoralis major muscles of the turkey. McFarland DC, et al. **Gen Comp Endocrinol** 1997 Jan; 105(1):114–20

Expression of trefoil peptides in the gastric mucosa of transgenic mice overexpressing transforming growth factor–alpha. Goldenring JR, et al. **Growth Factors** 1996; 13(1–2):111–9

Human betacellulin, a member of the EGF family dominantly expressed in pancreas and small intestine, is fully active in a monomeric form. Seno M, et al. **Growth Factors** 1996; 13(3–4):181–91

Bromodeoxyuridine: a diagnostic tool in biology and medicine, Part III. Proliferation in normal, injured and diseased tissue, growth factors, differentiation, DNA replication sites and in situ hybridization. Dolbeare F. **Histochem J** 1996 Aug;28(8):531–75 (539 ref.)

Growth factor–dependent phosphoinositide signalling. Hsuan JJ, et al. **Int J Biochem Cell Biol** 1997 Mar;29(3):415–35 (204 ref.)

Expression and functions of EGF, FGF and TGFbeta–growth–factor family members and their receptors in invasive human transitional–cell–carcinoma cells. De Boer WI, et al. **Int J Cancer** 1997 Apr 10; 71(2):284–91

Activity of keratinocyte growth factor–like substance extracted from rabbit liver on renal tubular cell growth during compensatory renal hyperplasia. Kanda S, et al. **Int J Urol** 1997 Jul;4(4):380–7

Hepatocyte growth factor, keratinocyte growth factor, and other growth factor–receptor systems in the lens. Weng J, et al. **Invest Ophthalmol Vis Sci** 1997 Jul;38(8):1543–54

Identification of a novel growth–promoting factor with a wide target cell spectrum from various tumor cells as catalase. Miyamoto T, et al. **J Biochem (Tokyo)** 1996 Oct; 120(4):725–30

Overlapping expression and redundant activation of mesenchymal fibroblast growth factor (FGF) receptors by alternatively spliced FGF–8 ligands. Blunt AG, et al. **J Biol Chem** 1997 Feb 7;272(6):3733–8

Regulated binding of the protein kinase C substrate GAP–43 to the V0/C2 region of protein kinase C–delta. Dekker LV, et al. **J Biol Chem** 1997 May 9;272(19):12747–53

The human homologue of the yeast CHL1 gene is a novel keratinocyte growth factor–regulated gene. Frank S, et al. **J Biol Chem** 1996 Oct 4;271(40):24337–40

A novel role of follistatin, an activin–binding protein, in the inhibition of activin action in rat pituitary cells. Endocytotic degradation of activin and its acceleration by follistatin associated with cell–surface heparan sulfate. Hashimoto O, et al. **J Biol Chem** 1997 May 23; 272(21):13835–42

Amino–terminal processing of cell surface heparin–binding epidermal growth factor–like growth factor up–regulates its juxtacrine but not its paracrine growth factor activity. Nakagawa T, et al. **J Biol Chem** 1996 Nov 29; 271(48):30858–63

Neutrophil–activating peptide–2 and melanoma growth–stimulatory activity are functional as monomers for neutrophil activation. Rajarathnam K, et al. **J Biol Chem** 1997 Jan 17;272(3):1725–9

The fibronectin domains of the neural adhesion molecule TAX–1 are necessary and sufficient for homophilic binding. Tsiotra PC, et al. **J Biol Chem** 1996 Nov 15; 271(46):29216–22

Macrophage stimulating protein (MSP) binds to its receptor

via the MSP beta chain. Wang MH, et al. **J Biol Chem** 1997 Jul 4;272(27):16999-7004

Selective inhibition of growth factor-stimulated mitogenesis by a cell-permeable Grb2-binding peptide. Williams EJ, et al. **J Biol Chem** 1997 Aug 29;272(35):22349-54

Establishment of bone morphogenetic protein 2 responsive chondrogenic cell line. Aikawa T, et al. **J Bone Miner Res** 1996 Apr;11(4):544-53

Intrinsic neuronal determinants locally regulate extrasynaptic and synaptic growth at the adult neuromuscular junction. Caroni P, et al. **J Cell Biol** 1997 Feb 10;136(3):679-92

Integrins can collaborate with growth factors for phosphorylation of receptor tyrosine kinases and MAP kinase activation: roles of integrin aggregation and occupancy of receptors. Miyamoto S, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1633-42

Possible role of coexpression of CD9 with membrane-anchored heparin-binding EGF-like growth factor and amphiregulin in cultured human keratinocyte growth. Inui S, et al. **J Cell Physiol** 1997 Jun;171(3):291-8

Characterization of a novel amphiregulin-related molecule in 12-O-tetradecanoylphorbol-13-acetate-treated breast cancer cells. Martinez-Lacaci I, et al. **J Cell Physiol** 1996 Dec;169(3):497-508

Expression of growth factors in chicken growth plate with special reference to tibial dyschondroplasia. Ren P, et al. **J Comp Pathol** 1997 Apr;116(3):303-20

Expression of keratinocyte growth factor in periapical lesions. Gao Z, et al. **J Dent Res** 1996 Sep;75(9):1658-63

Ontogeny of growth hormone, insulin-like growth factor-I, estradiol and cortisol in the growing lamb: effect of testosterone. Arnold AM, et al. **J Endocrinol** 1996 Sep; 150(3):391-9

Hepatic expression of regeneration marker genes following partial hepatectomy in the rat. Influence of 1,25-dihydroxyvitamin D3 in hypocalcemia. Goupil D, et al. **J Hepatol** 1997 Mar;26(3):659-68

Growth or antigrowth: angiotensin and the endothelium. Stoll M, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1529-34 (48 ref.)

Inhibition of acute peritoneal inflammation in rats by a cytokine-induced neutrophil chemoattractant receptor antagonist. Zagorski J, et al. **J Immunol** 1997 Aug 1; 159(3):1059-62

Interleukin-1-induced growth factor expression in postmitotic and resting fibroblasts. Maas-Szabowski N, et al. **J Invest Dermatol** 1996 Dec;107(6):849-55

Hepatic catabolism of intravenously administered pro-macrophage-stimulating protein in mice. Leonard EJ, et al. **J Leukoc Biol** 1996 Oct;60(4):453-8

Pancreatic cancer: the potential clinical relevance of alterations in growth factors and their receptors. Friess H, et al. **J Mol Med** 1996 Jan;74(1):35-42 (120 ref.)

A theoretical approach to the bell-shaped dependency of cell proliferation on the hormone concentration. Higo J, et al. **J Theor Biol** 1997 Jun 21;186(4):477-90

Modulation of growth factors by growth hormone in children with chronic renal failure. The Southwest Pediatric Nephrology Study Group. Powell DR, et al. **Kidney Int** 1997 Jun;51(6):1970-9

A Streptomyces griseus gene (sgaA) suppresses the growth disturbance caused by high osmolality and a high concentration of A-factor during early growth. Andρ N, et al. **Microbiology** 1997 Aug;143 (Pt 8):2715-23

Bone density and local growth factors in generalized osteoarthritis. Dequeker J, et al. **Microsc Res Tech** 1997 May 15;37(4):358-71 (100 ref.)

Growth factors and cytokines in hair follicle development and cycling: recent insights from animal models and the potentials for clinical therapy. Danilenko DM, et al. **Mol Med Today** 1996 Nov;2(11):460-7 (40 ref.)

Immunocytochemical expression of growth factors by odontogenic jaw cysts. Li T, et al. **Mol Pathol** 1997 Feb; 50(1):21-7

Potent 2'-amino-, and 2'-fluoro-2'-deoxyribonucleotide RNA inhibitors of keratinocyte growth factor. Pagratis NC, et al. **Nat Biotechnol** 1997 Jan;15(1):68-73

Increased renal expression of cytokines and growth factors induced by DOCA-NaCl treatment in Heymann nephritis. Tikkanen I, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2192-8

Noxious stimulation enhances release of cytokine-induced neutrophil chemoattractant from hypothalamic neurosecretory cells. Matsumoto K, et al. **Neurosci Res** 1997 Feb;27(2):181-4

Decreased GAP-43 accumulation in neurite tips of cultured hippocampal neurons by acrylamide. Clarke CH, et al. **Neurotoxicology** 1996 Summer;17(2):397-406

GAP-43 mRNA expression in the developing rat brain: alterations following lead-acetate exposure. Schmitt TJ, et al. **Neurotoxicology** 1996 Summer;17(2):407-14

Keratinocyte growth factor induces mammary and prostatic hyperplasia and mammary adenocarcinoma in transgenic mice. Kitsberg DI, et al. **Oncogene** 1996 Dec 19; 13(12):2507-15

Chromosomal integration dependent induction of junB by growth factors requires multiple flanking evolutionarily conserved sequences. Phinney DG, et al. **Oncogene** 1996 Nov 7;13(9):1875-83

Expression of PDGF, IGF-II, bFGF and TGF-beta 1 in pulmonary adenocarcinoma. Takanami I, et al. **Pathol Res Pract** 1996 Nov;192(11):1113-20

Effects of deflazacort immunosuppression on long-term growth and growth factors after renal transplantation. Ferraris JR, et al. **Pediatr Nephrol** 1997 Jun;11(3):322-4

Peptides and growth factors in non-small cell lung cancer. Moody TW. **Peptides** 1996;17(3):545-55 (151 ref.)

Hepatic extraction of hexarelin, a new peptidic GH secretagogue, in the isolated perfused rat liver. Roumi M, et al. **Pharm Res** 1997 Aug;14(8):1008-13

Comparative studies of the mitogenic effects of epidermal growth factor and transforming growth factor-alpha and the expression of various growth factors in neoplastic and non-neoplastic prostatic cell lines. Jones HE, et al. **Prostate** 1997 Mar 1;30(4):219-31

Cytokines, growth factors, and other inflammatory mediators in glomerulonephritis. Papayianni A. **Ren Fail** 1996 Sep; 18(5):725-40 (137 ref.)

Growth factors and granulomatous inflammation [letter; comment] Harrison NK. **Thorax** 1997 Jun;52(6):588. Comment on: Thorax 1996 Dec;51(12):1253-61.

Influence of acetaminophen treatment and hydrogen peroxide treatment on the release of a CINC-related protein and TNF-alpha from rat hepatocyte cultures. Horbach M, et al. **Toxicology** 1997 Aug 15;121(2):117-26

Peptide growth factors in normal and hypertrophied bladder. Chen MW, et al. **World J Urol** 1995;13(6):344-8 (28 ref.)

Growth factors in bladder cancer. Liebert M. **World J Urol** 1995;13(6):349-55 (121 ref.)

Growth factors and renal cancer: characterization and therapeutic implications. Mydlo JH. **World J Urol** 1995; 13(6):356-63 (57 ref.)

[Growth factors and neurotrophic factors with relevance to gliomas] Nagashima T. **No To Shinkei** 1997 Mar; 49(3):214-26 (132 ref.) **(Jpn)**

PHARMACOLOGY

Effects of hematopoietic growth factors on interleukin 6 secretion by blast cells derived from acute myelogenous leukemia patients. Bruserud O, et al. **Acta Haematol** 1996; 96(3):155-61

A possible correlation between growth-factor sensitivity and response to mitoxantrone treatment in a murine myeloid leukaemia (SA7HD) cell line. Abubakar AA, et al. **Acta Oncol** 1997;36(4):421-7

Balanced interaction of growth factors and taurine regulate energy metabolism, neuronal survival, and function of cultured mouse cerebellar cells under depolarizing conditions. Trenkner E, et al. **Adv Exp Med Biol** 1996; 403:507-17

Regulation of differentiation/maturation in vascular smooth muscle cells by hormones and growth factors. Owens GK, et al. **Agents Actions Suppl** 1997;48:3-24 (90 ref.)

Fibronectin supports bronchial epithelial cell adhesion and survival in the absence of growth factors. Aoshiba K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L684-93

Cell cycle in alveolar epithelial type II cells: integration of Matrigel and KGF. Buckley S, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L572-80

Acidic fibroblast growth factor and keratinocyte growth factor stimulate fetal rat pulmonary epithelial growth. Deterding RR, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L495-505

Ca2+ flux in human placental trophoblasts. Karl PI, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1776-80

Sulfation of extracellular matrices modifies responses of alveolar type II cells to fibroblast growth factors. Sannes PL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L688-97

An amino-terminal fragment of LCRF, LCRF-(1-35), has the same activity as the natural peptide. Spannagel AW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G754-8

KGF facilitates repair of radiation-induced DNA damage in alveolar epithelial cells. Takeoka M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1174-80

Human spasmolytic polypeptide decreases proton permeation through gastric mucus in vivo and in vitro. Tanaka S, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1473-80

Biological determinants of intestinotrophic properties of GLP-2 in vivo. Tsai CH, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 1):G662-8

KGF prevents hydrogen peroxide-induced increases in airway epithelial cell permeability. Waters CM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L681-9

Opioid growth factor tonically inhibits human colon cancer cell proliferation in tissue culture. Zagon IS, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R511-8

Keratinocyte growth factor stimulates CFTR-independent fluid secretion in the fetal lung in vitro. Zhou L, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):L987-94

Role of prostaglandins in intestinal epithelial restitution stimulated by growth factors. Zushi S, et al. **Am J Physiol** 1996 May;270(5 Pt 1):G757-62

Control of cell proliferation by embryonal-origin factors. Barnea ER, et al. **Am J Reprod Immunol** 1996 Apr; 35(4):318-24

Keratinocyte growth factor and embryonic rat lung morphogenesis. Shiratori M, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):328-38

Differential regulation of airway epithelial integrins by growth factors. Wang A, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):664-72

Keratinocyte growth factor increases transalveolar sodium reabsorption in normal and injured rat lungs. Guery BP, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1777-84

Keratinocyte growth factor increases surfactant pool sizes in premature rabbits. Ikegami M, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1155-8

Feline ocular epithelial response to growth factors in vitro. Wong CJ, et al. **Am J Vet Res** 1996 Dec;57(12):1748-52

In vitro maturation of bovine oocytes in the presence of bovine activin A does not affect the number of embryos. Izadyar F, et al. **Anim Reprod Sci** 1996 Dec 2;45(1-2):37-45

Growth factors mediate glucocorticoid receptor function and dexamethasone-induced regression of osteoblastic lesions in hormone refractory prostate cancer. Koutsilieris M, et al. **Anticancer Res** 1997 May-Jun;17(3A):1461-5 (29 ref.)

Cytokines and growth factors influence hair growth in vitro. Possible implications for the pathogenesis and treatment of alopecia areata. Hoffmann R, et al. **Arch Dermatol Res** 1996 Mar;288(3):153-6

Effect of tripeptide-copper complexes on the process of skin wound healing and on cultured fibroblasts. Buffoni F, et al. **Arch Int Pharmacodyn Ther** 1995 Nov-Dec; 330(3):345-60

The response of hepatocytes isolated from phenobarbitone treated mice to mitogenic growth factors. Fletcher K, et al. **Arch Toxicol** 1997;71(7):422-8

Growth factor regulation of chondrocyte integrins. Differential effects of insulin-like growth factor 1 and transforming growth factor beta on alpha 1 beta 1 integrin expression and chondrocyte adhesion to type VI collagen. Loeser RF. **Arthritis Rheum** 1997 Feb;40(2):270-6

Proliferative response of human and minipig smooth muscle cells after coronary angioplasty to growth factors and platelets. Unterberg C, et al. **Basic Res Cardiol** 1996 Nov-Dec;91(6):407-17

Insulin acts as an embryonic growth factor for Drosophila neural cells. Pimentel B, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):855-61

Activation of phospholipase D by growth factors and oncogenes in murine fibroblasts follow alternative but cross-talking pathways. del Peso L, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):519-28

Regulation of the expression of stromelysin-2 by growth factors in keratinocytes: implications for normal and impaired wound healing. Madlener M, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):659-64

Multiple growth factors are associated with lesions of atherosclerosis: specificity or redundancy? Raines EW, et al. **Bioessays** 1996 Apr;18(4):271-82 (70 ref.)

Evidence for two putative receptors mediating chemotactic activity of cytokine-induced neutrophil chemoattractants (CINCs) for rat neutrophils. al-Mokdad M, et al. **Biol Pharm Bull** 1996 Jun;19(6):879-81

Evidence for the requirement of autocrine growth factors for development of mouse preimplantation embryos in vitro. O'Neill C. **Biol Reprod** 1997 Jan;56(1):229-37

Influence of growth factors on proliferation and morphogenesis of rabbit ovarian mesothelial cells in vitro. Pierro E, et al. **Biol Reprod** 1996 Mar;54(3):660-9

Growth factor control of cultured rat uterine stromal cell proliferation is progesterone dependent. Piva M, et al. **Biol Reprod** 1996 Dec;55(6):1333-42

Inhibin and activin have antagonistic paracrine effects on gonadal steroidogenesis during the development of the chicken embryo. Rombauts L, et al. **Biol Reprod** 1996 Jun; 54(6):1229-37

Interactions among basic fibroblast growth factor, epidermal growth factor, insulin, and insulin-like growth factor-I (IGF-I) on cell numbers and steroidogenesis of bovine thecal cells: role of IGF-I receptors. Spicer LJ, et al. **Biol Reprod** 1996 Jan;54(1):255-63

Late signals are required for the stimulation of DNA synthesis in rat mammary fibroblasts by growth factors. Chen HL, et al. **Biosci Rep** 1996 Jun;16(3):249-63

Osteogenic growth peptide increases blood and bone marrow cellularity and enhances engraftment of bone marrow transplants in mice. Gurevitch O, et al. **Blood** 1996 Dec 15;88(12):4719-24

Effects of 1,25-dihydroxyvitamin D3 and its 20-epi analogues (MC 1288, MC 1301, KH 1060), on clonal keratinocyte growth: evidence for differentiation of keratinocyte stem cells and analysis of the modulatory effects of cytokines. Gniadecki R. **Br J Pharmacol** 1997 Mar;120(6):1119-27

Growth-promoting effects of endothelin-1 and endothelin-3 on chick embryos. Hsu L, et al. **Brain Res** 1995 Dec 12; 703(1-2):72-8

Inhibition of hormone and growth factor responsive and resistant human breast cancer cells by CeReS-18, a cell regulatory sialoglycopeptide. Fattaey HK, et al. **Breast Cancer Res Treat** 1997 Jan;42(2):125-36

Subtle differences in the mitogenic effects of recombinant human bone morphogenetic proteins -2 to -7 on DNA synthesis on primary bone-forming cells and identification of BMP-2/4 receptor. Mayer H, et al. **Calcif Tissue Int** 1996 Apr;58(4):249-55

Cell-cycle arrest in G0/G1 phase of growth factor-induced endothelial cell proliferation by various calcium channel blockers. Zeitler H, et al. **Cancer Detect Prev** 1997; 21(4):332-9

Keratinocyte growth factor ameliorates cyclophosphamide-induced ulcerative hemorrhagic cystitis. Ulich TR, et al. **Cancer Res** 1997 Feb 1;57(3):472-5

Inhibition of malignant cell proliferation by culture media conditioned by cardiac or skeletal muscle. Zinman T, et al. **Cell Biol Int** 1997 Mar;21(3):133-44

Cell growth stimulation by the redox protein thioredoxin occurs by a novel helper mechanism. Gasdaska JR, et al. **Cell Growth Differ** 1995 Dec;6(12):1643–50

p21ras-mediated decrease of the retinoblastoma protein in fibroblasts occurs through growth factor–dependent mechanisms. Klvinen L, et al. **Cell Growth Differ** 1996 Dec; 7(12):1705–12

Terminally differentiated skeletal myotubes are not confined to G0 but can enter G1 upon growth factor stimulation. Tiainen M, et al. **Cell Growth Differ** 1996 Aug;7(8):1039–50

Effects of the tripeptide glycyl–L–histidyl–L–lysine copper complex on osteoblastic cell spreading, attachment and phenotype. Godet D, et al.
Cell Mol Biol (Noisy–le–grand) 1995 Dec;41(8):1081–91

Growth factors and apoptosis. Granérus M, et al.
Cell Prolif 1996 Jun;29(6):309–14

Stimulator of proliferation of spleen colony–forming cells in acute sterile inflammation. Milenković P, et al.
Cell Prolif 1993 Nov;26(6):503–10

Surfactant protein and CC–10 expression in acute lung injury and in response to keratinocyte growth factor. Yano T, et al. **Chest** 1997 Jun;111(6 Suppl):137S–138S

Growth factors as potential drugs for the sensory epithelia of the ear. Corwin JT, et al. **Ciba Found Symp** 1996; 196:167–82; discussion 182–7 (80 ref.)

Growth factor and cytokine–regulated hyaluronan–binding protein TSG–6 is localized to the injury–induced rat neointima and confers enhanced growth in vascular smooth muscle cells. Ye L, et al. **Circ Res** 1997 Sep;81(3):289–96

Growth promoter–induced inhibition of proteolytic activities in cultured kidney cells: potential impact in diabetic nephropathy. Ling H, et al. **Clin Nephrol** 1996 Oct; 46(4):260–2 (32 ref.)

Effect of growth factors on the proliferation of ligament fibroblasts from skeletally mature rabbits. Scherping SC Jr, et al. **Connect Tissue Res** 1997;36(1):1–8

Interleukin 10 protects activated human T lymphocytes against growth factor withdrawal–induced cell death but only anti–fas antibody can prevent activation–induced cell death. Pawelec G, et al. **Cytokine** 1996 Dec;8(12):877–81

Comparative role of phosphotyrosine kinase domains of c–ros and c–ret protooncogenes in metanephric development with respect to growth factors and matrix morphogens. Liu ZZ, et al. **Dev Biol** 1996 Aug 25;178(1):133–48

Role of HB–GAM (heparin–binding growth–associated molecule) in proliferation arrest in cells of the developing rat limb and its expression in the differentiating neuromuscular system. Szabat E, et al. **Dev Biol** 1996 Aug 25;178(1):77–89

FGF–1 and FGF–7 induce distinct patterns of growth and differentiation in embryonic lung epithelium. Cardoso WV, et al. **Dev Dyn** 1997 Mar;208(3):398–405

Induction of cardiac myogenesis in avian pregastrula epiblast: the role of the hypoblast and activin. Yatskievych TA, et al. **Development** 1997 Jul;124(13):2561–70

PDX–1 induces insulin and glucokinase gene expressions in alphaTC1 clone 6 cells in the presence of betacellulin. Watada H, et al. **Diabetes** 1996 Dec;45(12):1826–31

Heregulin–stimulated acetylcholine receptor gene expression in muscle: requirement for MAP kinase and evidence for a parallel inhibitory pathway independent of electrical activity. Altiok N, et al. **EMBO J** 1997 Feb 17;16(4):717–25

The mechanism of excisional fetal wound repair in vitro is responsive to growth factors. Belford DA.
Endocrinology 1997 Sep;138(9):3987–96

Norepinephrine potentiates the mitogenic effect of growth factors in quiescent brown preadipocytes: relationship with uncoupling protein messenger ribonucleic acid expression. Garcia B, et al. **Endocrinology** 1997 Oct;138(10):4227–33

Proliferin induces endothelial cell chemotaxis through a G protein–coupled, mitogen–activated protein kinase–dependent pathway. Groskopf JC, et al.
Endocrinology 1997 Jul;138(7):2835–40

Multiple extracellular signals promote osteoblast survival and apoptosis. Hill PA, et al. **Endocrinology** 1997 Sep; 138(9):3849–58

Hyperinsulinemia potentiates activation of p21Ras by growth factors. Leitner JW, et al. **Endocrinology** 1997 May; 138(5):2211–4

The effects of growth factors associated with osteoblasts on prostate carcinoma proliferation and chemotaxis: implications for the development of metastatic disease. Ritchie CK, et al. **Endocrinology** 1997 Mar;138(3):1145–50

Expression and growth factor regulation of platelet–derived growth factor B transcripts in primary osteoblast cell cultures. Rydziel S, et al. **Endocrinology** 1996 Oct; 137(10):4115–9

Effects of growth factors and interleukin–1 alpha on proteoglycan and type II collagen turnover in bovine nasal and articular chondrocyte pellet cultures. Xu C, et al.
Endocrinology 1996 Aug;137(8):3557–65

Differential responsiveness of proliferation and cytokeratin release to stripped serum and oestrogen in the human breast cancer cell line, MCF–7. Tedone T, et al.
Eur J Cancer 1996 May;32A(5):849–56

Growth, differentiation and survival of HC11 mammary epithelial cells: diverse effects of receptor tyrosine kinase–activating peptide growth factors. Merlo GR, et al.
Eur J Cell Biol 1996 Jun;70(2):97–105

Keratinocyte growth factor enhances urokinase–type plasminogen activator activity in HPV16 DNA–immortalized human uterine exocervical epithelial cells. Zheng J, et al. **Eur J Cell Biol** 1996 Feb;69(2):128–34

Somatotrope responsiveness to Hexarelin, a synthetic hexapeptide, is refractory to the inhibitory effect of glucose in obesity. Grottoli S, et al. **Eur J Endocrinol** 1996 Dec; 135(6):678–82

Developmentally regulated neurite outgrowth response from dorsal root ganglion neurons to heparin–binding growth–associated molecule (HB–GAM) and the expression of HB–GAM in the targets of the developing dorsal root ganglion neurites. Nolo R, et al.
Eur J Neurosci 1996 Aug;8(8):1658–65

Serum growth factors and proinflammatory cytokines are potent inducers of activin expression in cultured fibroblasts and keratinocytes. Hübner G, et al. **Exp Cell Res** 1996 Oct 10;228(1):106–13

Glycerophosphorylethanolamine (GPEA) identified as an hepatocyte growth stimulator in liver extracts. Nelson C, et al. **Exp Cell Res** 1996 Nov 25;229(1):20–6

Growth and differentiation factors inhibit the migratory phenotype of cultured neonatal rat hepatocytes induced by HGF/SF. Pagan R, et al. **Exp Cell Res** 1997 Aug 25; 235(1):170–9

Differential effects of EGF and amphiregulin on adhesion molecule expression and migration of colon carcinoma cells. Solic N, et al. **Exp Cell Res** 1997 Aug 1;234(2):465–76

Growth/differentiation factor–5 induces angiogenesis in vivo. Yamashita H, et al. **Exp Cell Res** 1997 Aug 25;235(1):218–26

The G–protein G(i) regulates mitosis but not DNA synthesis in growth factor–activated fibroblasts: a role for the nuclear translocation of G(i). Crouch MF, et al. **FASEB J** 1997 Feb;11(2):189–98

Transcriptional regulation of the Ras–related protein TC21/R–Ras2 in endothelial cells. Kozian DH, et al.
FEBS Lett 1997 Sep 8;414(2):239–42

Stimulation of osteoblast proliferation by the cartilage–derived growth promoting factors chondromodulin–I and –II. Mori Y, et al. **FEBS Lett** 1997 Apr 14;406(3):310–4

Regulation of aldose reductase expression in rat astrocytes in culture. Jacquin–Becker C, et al. **Glia** 1997 Jun; 20(2):135–44

Induction of anchorage–independent growth by amphiregulin. Adam RM, et al. **Growth Factors** 1996; 13(3–4):193–203

Recombinant human growth/differentiation factor 5 stimulates mesenchyme aggregation and chondrogenesis responsible for the skeletal development of limbs. Hötten GC, et al. **Growth Factors** 1996;13(1–2):65–74

Cultured endometrial cancer cells exhibit autocrine growth factor stimulation that is not observed in cultured normal endometrial cells. Reynolds RK, et al. **Gynecol Oncol** 1996 Mar;60(3):380–6

The in vivo effect of hepatotrophic factors augmenter of liver regeneration, hepatocyte growth factor, and insulin–like growth factor–II on liver natural killer cell functions. Francavilla A, et al. **Hepatology** 1997 Feb;25(2):411–5

Interaction between growth factors and kinins in arterial smooth muscle cells. Dixon BS, et al.
Immunopharmacology 1996 Jun;33(1–3):16–23

Individual and combined effects of calciotropic hormones and growth factors on mineral metabolism in embryonic chick tibiae. Duvos C, et al.
In Vitro Cell Dev Biol Anim 1997 Jun;33(6):473–8

The differential regulation and secretion of proteinases from fetal and neonatal fibroblasts by growth factors. Cullen B, et al. **Int J Biochem Cell Biol** 1997 Jan;29(1):241–50

Epidermal growth factor and amphiregulin up–regulate matrix metalloproteinase–9 (MMP–9) in human breast cancer cells. Kondapaka SB, et al. **Int J Cancer** 1997 Mar 17;70(6):722–6

Interleukin–10 is a growth factor for human melanoma cells and down–regulates HLA class–I, HLA class–II and ICAM–1 molecules. Yue FY, et al. **Int J Cancer** 1997 May 16;71(4):630–7

Activin treated urodele ectoderm: a model experimental system for cardiogenesis. Arizumi T, et al.
Int J Dev Biol 1996 Aug;40(4):715–8 (19 ref.)

The final determination of Xenopus ectoderm depends on intrinsic and external positional information. Chen Y, et al. **Int J Dev Biol** 1997 Jun;41(3):525–8

Control of skeletogenesis and programmed cell death in the developing avian limb bud by growth factors. Gañan Y, et al. **Int J Dev Biol** 1996;Suppl 1:189S

Keratinocyte growth factor (KGF) can replace testosterone in the ductal branching morphogenesis of the rat ventral prostate. Sugimura Y, et al. **Int J Dev Biol** 1996 Oct; 40(5):941–51

Neurotrophic effects of transferrin on embryonic chick brain and neural retinal cell cultures. Bruinink A, et al.
Int J Dev Neurosci 1996 Oct;14(6):785–95

Effect of growth factors on the in vitro growth and differentiation of early and late passage C6 glioma cells. Goya L, et al. **Int J Dev Neurosci** 1996 Jul;14(4):409–17

Analysis of thymic stromal cell subpopulations grown in vitro on extracellular matrix in defined medium—V. Proliferation regulating activities in supernatants of human thymic epithelial cell cultures. Meilin A, et al.
Int J Immunopharmacol 1997 Jan;19(1):39–47

Thymosin alpha 1 does not promote growth or oncogenic transformation. Naylor PH, et al.
Int J Immunopharmacol 1996 May;18(5):321–7

Cell proliferation and death in the irradiated pituitary gland and its modification by growth stimulants. Guo YP, et al.
Int J Radiat Oncol Biol Phys 1997 Apr 1;38(1):175–81

Growth factor–induced epidermal invasion of the dermis in human skin organ culture: expression and role of matrix metalloproteinases. Zeigler ME, et al.
Invasion Metastasis 1996;16(1):11–8

Growth factor–induced epidermal invasion of the dermis in human skin organ culture: dermal invasion correlated with epithelial cell motility. Zeigler ME, et al.
Invasion Metastasis 1996;16(1):3–10

Tractional force generation by porcine Müller cells. Development and differential stimulation by growth factors. Guidry C. **Invest Ophthalmol Vis Sci** 1997 Feb; 38(2):456–68

Efficacy of the antimicrobial compound U–82,127 as a growth promoter for growing–finishing pigs. Cromwell GL, et al. **J Anim Sci** 1996 Jun;74(6):1284–7

Activin inhibition of estradiol and progesterone production in porcine granulosa cells. Ford JJ, et al. **J Anim Sci** 1997 Mar;75(3):761–6

Effects of active immunization against clenbuterol on the growth–promoting effect of clenbuterol in rats. Kim YH, et al. **J Anim Sci** 1997 Feb;75(2):446–53

The p42/p44 mitogen–activated protein kinase cascade is determinant in mediating activation of the Na+/H+ exchanger (NHE1 isoform) in response to growth factors. Bianchini L, et al. **J Biol Chem** 1997 Jan 3;272(1):271–9

Interleukin–8 (IL–8), melanoma growth–stimulatory activity, and neutrophil–activating peptide selectively mediate priming of the neutrophil NADPH oxidase through the type A or type B IL–8 receptor. Green SP, et al.
J Biol Chem 1996 Oct 11;271(41):25400–5

Effect of growth factors on the expression of 6–phosphofructo–2–kinase/fructose–2,6–bisphosphatase in Rat–1 fibroblasts. Joaquin M, et al. **J Biol Chem** 1997 Jan 31;272(5):2846–51

Cripto enhances the tyrosine phosphorylation of Shc and activates mitogen–activated protein kinase (MAPK) in mammary epithelial cells. Kannan S, et al. **J Biol Chem** 1997 Feb 7;272(6):3330–5

Syndecan–1 expression is down–regulated during myoblast terminal differentiation. Modulation by growth factors and retinoic acid. Larraín J, et al. **J Biol Chem** 1997 Jul 18; 272(29):18418–24

Cell type–specific inhibition of keratinocyte collagenase–1 expression by basic fibroblast growth factor and keratinocyte growth factor. A common receptor pathway. Pilcher BK, et al. **J Biol Chem** 1997 Jul 18;272(29):18147–54

Regulated shedding of syndecan–1 and –4 ectodomains by thrombin and growth factor receptor activation. Subramanian SV, et al. **J Biol Chem** 1997 Jun 6; 272(23):14713–20

A benzo[a]pyrene–induced cell cycle checkpoint resulting in p53–independent G1 arrest in 3T3 fibroblasts. Vaziri C, et al. **J Biol Chem** 1997 Jan 31;272(5):2762–9

Effects of growth–factor–enhanced culture on a chondrocyte–collagen implant for cartilage repair. Toolan BC, et al. **J Biomed Mater Res** 1996 Jun;31(2):273–80

Ectopic induction of cartilage and bone by bovine bone morphogenetic protein using a biodegradable polymeric reservoir. Yamazaki Y, et al. **J Biomed Mater Res** 1996 Jan;30(1):1–4

Effect of cell density and growth factors on matrix GLA protein expression by normal rat kidney cells. Cancela ML, et al. **J Cell Physiol** 1997 May;171(2):125–34

Differential growth factor responses of epithelial cell cultures derived from normal human prostate, benign prostatic hyperplasia, and primary prostate carcinoma. Chopra DP, et al. **J Cell Physiol** 1996 Nov;169(2):269–80

Surface mediated death of unconditioned Tetrahymena cells: effect of physical parameters, growth factors, hormones, and surfactants. Kristiansen TB, et al. **J Cell Physiol** 1996 Oct;169(1):139–48

c–myc–Dependent hepatoma cell apoptosis results from oxidative stress and not a deficiency of growth factors. Xu Y, et al. **J Cell Physiol** 1997 Feb;170(2):192–9

Functional human thyroid cells and their insulin–like growth factor–binding proteins: regulation by thyrotropin, cyclic 3',5' adenosine monophosphate, and growth factors. Eggo MC, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3056–62

Adrenocorticotropin– and cortisol–releasing effect of hexarelin, a synthetic growth hormone–releasing peptide, in normal subjects and patients with Cushing's syndrome. Ghigo E, et al. **J Clin Endocrinol Metab** 1997 Aug; 82(8):2439–44

Hexarelin–induced growth hormone, cortisol, and prolactin release: a dose–response study. Massoud AF, et al.
J Clin Endocrinol Metab 1996 Dec;81(12):4338–41

Proliferation induced by keratinocyte growth factor enhances in vivo retroviral–mediated gene transfer to mouse hepatocytes. Bosch A, et al. **J Clin Invest** 1996 Dec 15; 98(12):2683–7

Interferon–gamma–mediated activation of STAT1alpha regulates growth factor–induced mitogenesis. Marra F, et al. **J Clin Invest** 1996 Sep 1;98(5):1218–30

Ectopic induction of tendon and ligament in rats by growth and differentiation factors 5, 6, and 7, members of the TGF–beta gene family. Wolfman NM, et al.
J Clin Invest 1997 Jul 15;100(2):321–30

Non–coordinate control of bone formation displayed by growth factor combinations with IGF–I. Giannobile WV, et al. **J Dent Res** 1997 Sep;76(9):1569–78

Effect of growth factors on dermal fibroblast contraction in normal skin and hypertrophic scar. Yang CC, et al. **J Dermatol Sci** 1997 Feb;14(2):162–9

Transcriptional and post-transcriptional regulation of FSH receptor in rat granulosa cells by cyclic AMP and activin. Tano M, et al. **J Endocrinol** 1997 Jun;153(3):465–73

Effects of histaminergic antagonists on the GH-releasing activity of GHRH or hexarelin, a synthetic hexapeptide, in man. Arvat E, et al. **J Endocrinol Invest** 1997 Mar; 20(3):122–7

Partial purification and characterization of serum embryotrophic factor required for early postimplantation growth of rat embryos in culture. Usami M, et al. **J Exp Zool** 1996 Dec 15;276(6):403–14

Effects of growth factors and gut hormones on proliferation of primary cultured gastric mucous cells of guinea pig. Matsuda K, et al. **J Gastroenterol** 1996 Aug;31(4):498–504

Sixteen weeks of hexarelin therapy in aged dogs: effects on the somatotropic axis, muscle morphology, and bone metabolism. Cella SG, et al. **J Gerontol A Biol Sci Med Sci** 1996 Nov;51(6):B439–47

STAT5 involvement in the differentiation response of primary chicken myeloid progenitor cells to chicken myelomonocytic growth factor. Woldman I, et al. **J Immunol** 1997 Jul 15;159(2):877–86

Stimulation of fibroblast cell growth, matrix production, and granulation tissue formation by connective tissue growth factor. Frazier K, et al. **J Invest Dermatol** 1996 Sep; 107(3):404–11

Post-transcriptional regulation of neurofibromin level in cultured human melanocytes in response to growth factors. Griesser J, et al. **J Invest Dermatol** 1997 Mar;108(3):275–80

In the absence of streptomycin, minoxidil potentiates the mitogenic effects of fetal calf serum, insulin-like growth factor 1, and platelet-derived growth factor on NIH 3T3 fibroblasts in a K+ channel-dependent fashion. Sanders DA, et al. **J Invest Dermatol** 1996 Aug;107(2):229–34

Mechanical load enhances the stimulatory effect of serum growth factors on cardiac fibroblast procollagen synthesis. Butt RP, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1141–51

Transforming growth factor-alpha and other growth factors stimulate cell division in olfactory epithelium in vitro. Farbman AI, et al. **J Neurobiol** 1996 Jun;30(2):267–80

Protein kinase C activators work in synergy with specific growth factors to initiate tyrosine hydroxylase expression in striatal neurons in culture. Du X, et al. **J Neurochem** 1997 Feb;68(2):564–9

Tyrosine phosphorylation of extracellular signal-regulated protein kinase 4 in response to growth factors. Peng X, et al. **J Neurochem** 1996 Mar;66(3):1191–7

Growth factor-induced transcription of GluR1 increases functional AMPA receptor density in glial progenitor cells. Chew LJ, et al. **J Neurosci** 1997 Jan 1;17(1):227–40

The effects of growth factors on the survival and differentiation of cultured dentate gyrus neurons. Lowenstein DH, et al. **J Neurosci** 1996 Mar 1;16(5):1759–69

Neurotransmitter- and growth factor-induced cAMP response element binding protein phosphorylation in glial cell progenitors: role of calcium ions, protein kinase C, and mitogen-activated protein kinase/ribosomal S6 kinase pathway. Pende M, et al. **J Neurosci** 1997 Feb 15; 17(4):1291–301

Immunolocalization of cytoplasmic and myelin mcalpain in transfected Schwann cells: II. Effect of withdrawal of growth factors. Chakrabarti AK, et al. **J Neurosci Res** 1997 Mar 15;47(6):609–16

Synergistic increase in nerve growth factor secretion by cultured vascular smooth muscle cells treated with injury-related growth factors. Creedon DJ, et al. **J Neurosci Res** 1997 Feb 1;47(3):277–86

Gangliosides inhibit growth factor-stimulated neurite outgrowth in SH-SY5Y human neuroblastoma cells. Hynds DL, et al. **J Neurosci Res** 1997 Mar 15;47(6):617–25

Growth factor stimulation triggers apoptotic cell death in mature oligodendrocytes. Muir DA, et al. **J Neurosci Res** 1996 Apr 1;44(1):1–11

Immunolocalization of cytoplasmic and myelin mcalpain in transfected Schwann cells: I. Effect of treatment with growth factors. Neuberger T, et al. **J Neurosci Res** 1997 Mar 1;47(5):521–30

Milk growth factors enriched from cheese whey ameliorate intestinal damage by methotrexate when administered orally to rats. Howarth GS, et al. **J Nutr** 1996 Oct; 126(10):2519–30

Roasted soybeans and an estrogenic growth promoter affect growth hormone status and performance of beef steers. Rumsey TS, et al. **J Nutr** 1996 Nov;126(11):2880–7

The mitogenic effect of KGF and the expression of its cell surface receptor on cultured normal and malignant human oral keratinocytes and on contiguous fibroblasts. Drugan CS, et al. **J Oral Pathol Med** 1997 Aug;26(7):327–33

Effect of growth factors on matrix synthesis by ligament fibroblasts. Marui T, et al. **J Orthop Res** 1997 Jan; 15(1):18–23

The effect of lipopolysaccharide on growth factor-induced mitogenesis in human gingival fibroblasts. Hill SJ, et al. **J Periodontol** 1996 Dec;67(12):1274–80

Osteogenesis enhanced by chitosan (poly-N-acetyl glucosaminoglycan) in vitro. Klokkevold PR, et al. **J Periodontol** 1996 Nov;67(11):1170–5

Inhibition of growth factor-mediated tyrosine phosphorylation in vascular smooth muscle by PD 089828, a new synthetic protein tyrosine kinase inhibitor. Dahring TK, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1446–56

Trefoil peptides: what are they and what do they do? Playford RJ. **J R Coll Physicians Lond** 1997 Jan–Feb; 31(1):37–41 (25 ref.)

Modulation of the effects of FSH, androstenedione, epidermal growth factor (EGF) and insulin-like growth factor I (IGF-I) on bovine granulosa cells by GCIF, a growth-inhibitory factor of low molecular mass from bovine follicular fluid. Hynes AC, et al. **J Reprod Fertil** 1996 Nov;108(2):193–7

Effect of a growth promoter on preweaning growth of beef steer calves. Van Zyl JG. **J S Afr Vet Assoc** 1990 Dec; 61(4):176–7

Effect of growth factors on estrogen receptor mediated gene expression. Hafner F, et al. **J Steroid Biochem Mol Biol** 1996 Jul;58(4):385–93

Interaction between estradiol and growth factors in the regulation of specific gene expression in MCF-7 human breast cancer cells. El-Tanani MK, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5–6):269–76

Modulation of motility and proliferation of glioma cells by hepatocyte growth factor. Yamamoto S, et al. **Jpn J Cancer Res** 1997 Jun;88(6):564–77

Interleukin-10 is a mesangial cell growth factor in vitro and in vivo. Chadban SJ, et al. **Lab Invest** 1997 May; 76(5):619–27

Placenta growth factor-1 is chemotactic, mitogenic, and angiogenic. Ziche M, et al. **Lab Invest** 1997 Apr; 76(4):517–31

Regulation of glucose transport by interleukin-3 in growth factor-dependent and oncogene-transformed bone marrow-derived cell lines. Ahmed N, et al. **Leuk Res** 1997 Jul;21(7):609–18

Stimulation of collagenase (matrix metalloproteinase-1) synthesis in histiotypic epithelial cell culture by heparin is enhanced by keratinocyte growth factor. Putnins EE, et al. **Matrix Biol** 1996 Apr;15(1):21–9

Ageing increases growth factor-induced inorganic pyrophosphate elaboration by articular cartilage. Rosenthal AK, et al. **Mech Ageing Dev** 1994 Jul;75(1):35–44

Mechanisms underlying the negative growth hormone (GH) autofeedback on the GH-releasing effect of hexarelin in man. Arvat E, et al. **Metabolism** 1997 Jan;46(1):83–8

Characterization of the growth factor activity of amniotic fluid on cells from hematopoietic and lymphoid organs of different life stages. Heidari Z, et al. **Microbiol Immunol** 1996;40(8):583–9

An important role for glutathione and gamma-glutamyltranspeptidase in the supply of growth requirements during nitrogen starvation of the yeast Saccharomyces cerevisiae. Mehdi K, et al. **Microbiology** 1997 Jun;143 (Pt 6):1885–9

Cytokeratin expression and hyaluronic acid production in cultures of human synovial microvascular endothelial cells: influence of cytokines and growth factors. Carley WW, et al. **Microcirculation** 1996 Dec;3(4):359–70

DNA antisense strategies in the study of receptors for vasoactive peptides, and of growth and wound-healing factors. D'Orléans-Juste P, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):199–211 (77 ref.)

Identification of mouse histone deacetylase 1 as a growth factor-inducible gene. Bartl S, et al. **Mol Cell Biol** 1997 Sep;17(9):5033–43

Translational control of programmed cell death: eukaryotic translation initiation factor 4E blocks apoptosis in growth-factor-restricted fibroblasts with physiologically expressed or deregulated Myc. Polunovsky VA, et al. **Mol Cell Biol** 1996 Nov;16(11):6573–81

Ras activity late in G1 phase required for p27kip1 downregulation, passage through the restriction point, and entry into S phase in growth factor-stimulated NIH 3T3 fibroblasts. Takuwa N, et al. **Mol Cell Biol** 1997 Sep; 17(9):5348–58

Rheb interacts with Raf-1 kinase and may function to integrate growth factor- and protein kinase A-dependent signals. Yee WM, et al. **Mol Cell Biol** 1997 Feb;17(2):921–33

Differential responsiveness of late passage C-6 glial cells and advanced passages of astrocytes derived from aged mouse cerebral hemispheres to cytokines and growth factors: glutamine synthetase activity. Kazazoglou T, et al. **Neurochem Res** 1996 May;21(5):609–14

Neuroprotective signal transduction: relevance to stroke. Mattson MP. **Neurosci Biobehav Rev** 1997 Mar; 21(2):193–206 (127 ref.)

Leukaemia inhibitory factor treatment stimulates muscle regeneration in the mdx mouse. Kurek J, et al. **Neurosci Lett** 1996 Jul 19;212(3):167–70

Growth factor-induced c-fos expression defines distinct subsets of midbrain dopaminergic neurons. Engele J, et al. **Neuroscience** 1996 Jul;73(2):397–406

Induction of differentiation of human olfactory neuroblastoma cells into odorant-responsive cells. Gomez G, et al. **Neuroscience** 1996 Sep;74(2):567–77

Changes of intermediate filaments in cultured human glioma cells with various growth factors and cytokines using high voltage immunoelectron microscopy. Taomoto K, et al. **Noshuyo Byori** 1996 Apr;13(1):49–56

A functional YY1 binding site is necessary and sufficient to activate Surf-1 promoter activity in response to serum growth factors. Cole EG, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3705–11

Requirement of phosphatidylinositol-3 kinase for epithelial cell migration activated by human macrophage stimulating protein. Wang MH, et al. **Oncogene** 1996 Nov 21; 13(10):2167–75

Integration of growth factor signals at the c-fos serum response element. Price MA, et al. **Philos Trans R Soc Lond B Biol Sci** 1996 Apr 29; 351(1339):551–9

The effect of ultraviolet B induced adult T cell leukemia-derived factor/thioredoxin (ADF/TRX) on survival and growth of human melanocytes. Funasaka Y, et al. **Pigment Cell Res** 1997 Feb–Apr;10(1–2):68–73

Growth factors in the repair of partial thickness porcine skin wounds. Breuing K, et al. **Plast Reconstr Surg** 1997 Sep; 100(3):657–64

Studies on the feeding of cupric sulfate pentahydrate and cupric citrate to broiler chickens. Pesti GM, et al. **Poult Sci** 1996 Sep;75(9):1086–91

Avoparcin used as a growth promoter is associated with the occurrence of vancomycin-resistant Enterococcus faecium on Danish poultry and pig farms. Bager F, et al. **Prev Vet Med** 1997 Jul;31(1–2):95–112

An in vitro tubulogenesis system using cell lines derived from the embryonic kidney shows dependence on multiple soluble growth factors. Sakurai H, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6279–84

Regulation of growth factor-induced signaling by protein-tyrosine-phosphatases. Byon JC, et al. **Proc Soc Exp Biol Med** 1997 Oct;216(1):1–20 (152 ref.)

Alteration of in vitro human decidual endothelial cell growth, endothelin-1 and prostaglandin secretion, by growth factors and intracellular calcium. Gallery ED, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jun; 54(6):411–8

Enhancement of murine intestinal stem cell survival after irradiation by keratinocyte growth factor. Khan WB, et al. **Radiat Res** 1997 Sep;148(3):248–53

Hexarelin, a novel GHRP-6 analog, stimulates growth hormone (GH) release in a GH-secreting rat cell line (GH1) insensitive to GH-releasing hormone. Giustina A, et al. **Regul Pept** 1997 May 14;70(1):49–54

Roles of growth factors in the development of bovine embryos fertilized in vitro and cultured singly in a defined medium [published erratum appears in Reprod Fertil Dev 1997;9(2):279] Lim JM, et al. **Reprod Fertil Dev** 1996; 8(8):1199–205

Triatomine's embryo extracts promote growth of culture forms of Trypanosoma cruzi. Alvarenga NJ, et al. **Rev Soc Bras Med Trop** 1996 Jan–Feb;29(1):53–4

Effect of growth factors on epithelial restitution of human colonic mucosa in vitro. Riegler M, et al. **Scand J Gastroenterol** 1997 Sep;32(9):925–32

Signaling mechanisms in growth factor-stimulated cell motility. Anand-Apte B, et al. **Stem Cells** 1997;15(4):259–67 (112 ref.)

Raf-1 protein is required for growth factor-induced proliferation of primitive hematopoietic progenitors stimulated with synergistic combinations of cytokines. Muszynski KW, et al. **Stem Cells** 1997;15(1):63–72

Regulation of primary response and specific genes in adrenal cells by peptide hormones and growth factors. Penhoat A, et al. **Steroids** 1996 Apr;61(4):176–83

Regulation of transforming growth factor beta 1 messenger ribonucleic acid expression in porcine thyroid follicles in vitro by growth factors, iodine, or delta-iodolactone. Gärtner R, et al. **Thyroid** 1997 Aug;7(4):633–40

Soluble factor(s) alone produced by primary porcine microvascular endothelial cells support the proliferation and differentiation of human CD34+ hematopoietic progenitor cells with a high replating potential. Davis TA, et al. **Transplant Proc** 1997 Jun;29(4):2003–4

Antiproliferative effect of rapamycin on growth factor-stimulated human adult lung fibroblasts in vitro may explain its superior efficacy for prevention and treatment of allograft obliterative airway disease in vivo. Nair RV, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):614–5

Function of hepatic stimulatory substance-induced proliferating hepatocytes in ODS-od/od rats. Nakazawa F, et al. **Transplant Proc** 1997 Jun;29(4):2042–4

Enhancement of proliferation of intrasplenically transplanted hepatocytes in cirrhotic rats by hepatic stimulatory substance. Jiang B, et al. **Transplantation** 1997 Jan 15; 63(1):131–5

Effect of growth factors on growth of bovine parathyroid cells in serum-free medium. Sadler GP, et al. **World J Surg** 1996 Sep;20(7):822–8; discussion 828–9

Molecular aspects of restitution: functions of trefoil peptides. Poulsom R, et al. **Yale J Biol Med** 1996 Mar–Apr; 69(2):137–46

Intra-ovarian regulation of oocyte developmental competence in cattle. Gandolfi F. **Zygote** 1996 Nov; 4(4):323–6 (37 ref.)

[Reconstruction of the neuroretina from embryonic chick retinal cells in floating culture and the effect of growth factors] Takabatake M. **Nippon Ganka Gakkai Zasshi** 1997 Jan;101(1):30–9 (Eng. Abstr.) **(Jpn)**

[Superoxide-producing lipoprotein as a tumor growth suppressing factor, increasing the number of leukocytes and accelerating cell division in culture] Simonian MA, et al. **Biokhimiia** 1996 Sep;61(9):1578–83 (Eng. Abstr.) **(Rus)**

[The growth-stimulating and immunomodulating activity of culture media conditioned by transformed fibroblasts from

serum-free lines] Pleskach VA, et al. **Tsitologiia** 1996; 38(6):616-29 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Presynaptic phosphoprotein B-50/GAP-43 in neuronal and synaptic plasticity. Biewenga JE, et al. **Acta Biochim Pol** 1996;43(2):327-38 (121 ref.)

Potential involvement of growth factors in the proliferation of arteriolar smooth muscle cells during chronic graft rejection. Vuillemin T, et al. **Adv Nephrol Necker Hosp** 1996;25:39-49 (26 ref.)

Growth factors and cytokines in acute renal failure. Harris RC. **Adv Ren Replace Ther** 1997 Apr;4(2 Suppl 1):43-53 (139 ref.)

Supporting cells as targets of ethanol toxicity: altered regulation of growth factors and extracellular matrix. Miller MW. **Alcohol Clin Exp Res** 1996 Nov;20(8 Suppl):260A-264A

Interrelationship between renal mass and renotropin activity in consecutive generations of uninephrectomized mice. Averbukh Z, et al. **Am J Nephrol** 1996;16(5):425-30

Growth factors and the kidney: regulation of epithelial cell movement and morphogenesis. Cantley LG. **Am J Physiol** 1996 Dec;271(6 Pt 2):F1103-13 (95 ref.)

Antioxidant expression in experimental hydronephrosis: role of mechanical stretch and growth factors. Ricardo SD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F789-98

Opioid growth factor is present in human and mouse gastrointestinal tract and inhibits DNA synthesis. Zagon IS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1094-104

Role of cytokine-induced neutrophil chemoattractant (CINC) in ozone-induced airway inflammation and hyperresponsiveness. Koto H, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):234-9

Growth factor properties of VIP during early brain development. Whole embryo culture and in vivo studies. Gressens P, et al. **Ann N Y Acad Sci** 1997 Apr 24; 814:152-60

Role of melanoma growth stimulatory activity (MGSA/gro) on keratinocyte function in wound healing. Rennekampff HO, et al. **Arch Dermatol Res** 1997 Mar;289(4):204-12

Molecular biology and post-angioplasty restenosis. Nikol S, et al. **Atherosclerosis** 1996 Jun;123(1-2):17-31 (79 ref.)

The significance and distinct interactions of various growth factors in physiologic and pathologic megakaryocytopoiesis/thrombocytopoiesis [letter] Haznedaroglu IC, et al. **Aust N Z J Med** 1997 Apr; 27(2):191-2

Cerebral gliomas. Growth factors and angiogenesis. Weingart JD, et al. **Baillieres Clin Neurol** 1996 Jun;5(2):307-18 (56 ref.)

Pepsinogen C gene product is a possible growth factor during gastric mucosal healing. Kishi K, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):17-20

Virocrine transformation. Drummond-Barbosa D, et al. **Biochim Biophys Acta** 1997 Feb 22;1332(1):M1-17 (148 ref.)

Morphogens and pattern formation. Neumann C, et al. **Bioessays** 1997 Aug;19(8):721-9 (76 ref.)

Receptor tyrosine kinase-dependent neural crest migration in response to differentially localized growth factors. Wehrle-Haller B, et al. **Bioessays** 1997 Apr;19(4):337-45 (73 ref.)

Osteogenic growth peptide increases blood and bone marrow cellularity and enhances engraftment of bone marrow transplants in mice. Gurevitch O, et al. **Blood** 1996 Dec 15;88(12):4719-24

Anandamide, a natural ligand for the peripheral cannabinoid receptor is a novel synergistic growth factor for hematopoietic cells. Valk P, et al. **Blood** 1997 Aug 15; 90(4):1448-57

Periodontal tissue engineering by growth factors. Giannobile WV. **Bone** 1996 Jul;19(1 Suppl):23S-37S (117 ref.)

Differential responses of scirrhous and well-differentiated gastric cancer cells to orthotopic fibroblasts. Yashiro M, et al. **Br J Cancer** 1996 Oct;74(7):1096-103

Cellular interactions in prostate cancer. Lee C. **Br J Urol** 1997 Mar;79 Suppl 1:21-7 (47 ref.)

Regulation of oligodendrocyte development and CNS myelination by growth factors: prospects for therapy of demyelinating disease. McMorris FA, et al. **Brain Pathol** 1996 Jul;6(3):313-29 (170 ref.)

Homeostasis of ocular surface epithelium in the rat is regulated by opioid growth factor. Zagon IS, et al. **Brain Res** 1997 Jun 6;759(1):92-102

Effects of human tumor cell lines on local new bone formation in vivo. Izbicka E, et al. **Calcif Tissue Int** 1997 Feb;60(2):210-5

An angiogenic role for the neurokines midkine and pleiotrophin in tumorigenesis. Choudhuri R, et al. **Cancer Res** 1997 May 1;57(9):1814-9

Growth factors in human ovarian cancer. Westermann AM, et al. **Cancer Treat Rev** 1997 Mar;23(2):113-31 (137 ref.)

Transformation by v-Jun prevents cell cycle exit and promotes apoptosis in the absence of serum growth factors. Clark W, et al. **Cell Growth Differ** 1997 Apr;8(4):371-80

Transforming growth factor beta induces anchorage-independent growth of NRK fibroblasts via a connective tissue growth factor-dependent signaling pathway. Kothapalli D, et al. **Cell Growth Differ** 1997 Jan; 8(1):61-8

The roles of growth factors and neural activity in the development of the neocortex. Price DJ, et al. **Ciba Found Symp** 1995;193:231-50; discussion 251-7 (35 ref.)

Variation in response to growth factor stimuli in satellite cell populations. Yun Y, et al. **Comp Biochem Physiol A Physiol** 1997 Aug;117(4):463-70

Roles of cartilage matrix proteins, chondromodulin-I and -II, in endochondral bone formation: a review. Suzuki F. **Connect Tissue Res** 1996;35(1-4):303-7 (21 ref.)

Pleiotrophin and midkine in normal development and tumor biology. Kurtz A, et al. **Crit Rev Oncog** 1995;6(2):151-77 (25 ref.)

The role of hormones, growth factors and vitamins in carcinogenesis. Lupulescu A. **Crit Rev Oncol Hematol** 1996 Jun;23(2):95-130 (355 ref.)

Keratinocytes and cytokine/growth factors. Feliciani C, et al. **Crit Rev Oral Biol Med** 1996;7(4):300-18 (185 ref.)

Defining the skeletal elements. Vortkamp A. **Curr Biol** 1997 Feb 1;7(2):R104-7 (23 ref.)

Cell anchorage and the cytoskeleton as partners in growth factor dependent cell cycle progression. Assoian RK, et al. **Curr Opin Cell Biol** 1997 Feb;9(1):93-8 (36 ref.)

Hormones, autacoids, neurotransmitters, and growth factors. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):B1-27

Factors controlling growth and matrix production in vascular smooth muscle and glomerular mesangial cells. Dubey RK, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):88-105 (170 ref.)

Roles of growth factors in renal development. Woolf AS, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):10-4 (55 ref.)

Brain metastasis: role of trophic, autocrine, and paracrine factors in tumor invasion and colonization of the central nervous system. Nicolson GL, et al. **Curr Top Microbiol Immunol** 1996;213 (Pt 2):89-115 (138 ref.)

Growth factors in thyroid cells. Gärtner R. **Curr Top Pathol** 1997;91:65-81 (158 ref.)

Trans-signaling by cytokine and growth factor receptors. Castellino AM, et al. **Cytokine Growth Factor Rev** 1996 Dec;7(4):297-302 (56 ref.)

Growth factors in skeletal muscle regeneration. Husmann I, et al. **Cytokine Growth Factor Rev** 1996 Oct;7(3):249-58 (108 ref.)

The inauguration of Cytokine & Growth Factor Reviews [editorial] Sporn MB, et al. **Cytokine Growth Factor Rev** 1996 Jun;7(1):1

Growth factors in hair organ development and the hair growth cycle. Peus D, et al. **Dermatol Clin** 1996 Oct; 14(4):559-72 (129 ref.)

Limb initiation and development is normal in the absence of the mesonephros. Fernandez-Teran M, et al. **Dev Biol** 1997 Sep 15;189(2):246-55

Adhesion-growth factor interactions during differentiation: an integrated biological response. Sastry SK, et al. **Dev Biol** 1996 Dec 15;180(2):455-67 (137 ref.)

Preimplantation development of the mammalian embryo and its regulation by growth factors. Stewart CL, et al. **Dev Genet** 1997;21(1):91-101 (125 ref.)

Evidence that FGF8 signalling from the midbrain-hindbrain junction regulates growth and polarity in the developing midbrain. Lee SM, et al. **Development** 1997 Mar; 124(5):959-69

The mesenchymal factor, FGF10, initiates and maintains the outgrowth of the chick limb bud through interaction with FGF8, an apical ectodermal factor. Ohuchi H, et al. **Development** 1997 Jun;124(11):2235-44

A novel prespore-cell-inducing factor in Dictyostelium discoideum induces cell division of prespore cells. Oohata AA, et al. **Development** 1997 Jul;124(14):2781-7

DPP controls tracheal cell migration along the dorsoventral body axis of the Drosophila embryo. Vincent S, et al. **Development** 1997 Jul;124(14):2741-50

Growth factors and diabetic retinopathy. Paques M, et al. **Diabetes Metab** 1997 Apr;23(2):125-30 (43 ref.)

Gonadal peptides as mediators of development and functional control of the testis: an integrated system with hormones and local environment. Gnessi L, et al. **Endocr Rev** 1997 Aug;18(4):541-609 (844 ref.)

Pituitary cytokine and growth factor expression and action. Ray D, et al. **Endocr Rev** 1997 Apr;18(2):206-28 (357 ref.)

Maturation of the cardiopulmonary system. Cottrill CM. **Equine Vet J Suppl** 1993 Apr;(14):26-30 (74 ref.)

Pathophysiology, cellular and molecular mechanisms of foetal growth retardation. Han VK. **Equine Vet J Suppl** 1993 Apr;(14):12-6 (46 ref.)

Role of soluble mediators in angiogenesis. Bussolino F, et al. **Eur J Cancer** 1996 Dec;32A(14):2401-12 (110 ref.)

Autocrine and paracrine roles of polypeptide growth factors, cytokines and vasogenic substances in normal and tumorous pituitary function and growth: a review. Renner U, et al. **Eur J Endocrinol** 1996 Nov;135(5):515-32 (286 ref.)

Presence and function of growth factors in the avian ovary. van Nassauw L, et al. **Eur J Morphol** 1997 Jul;35(3):171-80 (59 ref.)

Growth factors and myointimal hyperplasia in experimental aortic allografts. Randone B, et al. **Eur J Vasc Endovasc Surg** 1997 Jan;13(1):66-71

Role of growth factors in benign prostatic hyperplasia. Lawson RK. **Eur Urol** 1997;32 Suppl 1:22-7 (38 ref.)

The regulation of proliferation and invasion in differentiated thyroid cancer by growth factors. Hoelting T, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 4:29-31 (9 ref.)

Regulation of angiogenesis in malignant gliomas. Guerin C, et al. **EXS** 1997;79:47-64 (127 ref.)

Role of fibrin and plasminogen activators in repair-associated angiogenesis: in vitro studies with human endothelial cells. van Hinsbergh VW, et al. **EXS** 1997;79:391-411 (119 ref.)

Roles of inhibins, activins, and follistatin in the female reproductive system. Knight PG. **Front Neuroendocrinol** 1996 Oct;17(4):476-509 (231 ref.)

Autocrine regulation of growth in cultured human intestinal muscle by growth factors. Kuemmerle JF. **Gastroenterology** 1997 Sep;113(3):817-24

Nonmitogenic actions of growth factors: an integrated view of their role in intestinal physiology and pathophysiology. Uribe JM, et al. **Gastroenterology** 1997 Jan;112(1):255-68 (160 ref.)

Adenovirus-mediated expression of cytokine-induced neutrophil chemoattractant in rat liver induces a neutrophilic hepatitis. Maher JJ, et al. **Hepatology** 1997 Mar;25(3):624-30

Lectin activities of cytokines and growth factors: function and implications for pathology. Zanetta JP, et al. **Histol Histopathol** 1996 Oct;11(4):1101-8 (67 ref.)

Peptide growth factors and preimplantation development. Kane MT, et al. **Hum Reprod Update** 1997 Mar-Apr; 3(2):137-57 (363 ref.)

Effects of growth factors on cartilage repair. Coutts RD, et al. **Instr Course Lect** 1997;46:487-94 (95 ref.)

Growth factors and vascular wall. Chabrier PE. **Int Angiol** 1996 Jun;15(2):100-3 (10 ref.)

The soluble form of the IL-6 receptor (sIL-6R alpha) is a potent growth factor for AIDS-associated Kaposi's sarcoma (KS) cells; the soluble form of gp130 is antagonistic for sIL-6R alpha-induced AIDS-KS cell growth. Murakami-Mori K, et al. **Int Immunol** 1996 Apr; 8(4):595-602

Autocrine transformation by fibroblast growth factor 9 (FGF-9) and its possible participation in human oncogenesis. Matsumoto-Yoshitomi S, et al. **Int J Cancer** 1997 May 2;71(3):442-50

The role of exogenous growth-promoting factors and their receptors in organogenesis. Pratten MK. **Int J Dev Biol** 1997 Apr;41(2):319-28 (108 ref.)

Human factor-dependent leukemia cell lines. Tohyama K. **Int J Hematol** 1997 Jun;65(4):309-17 (70 ref.)

An unusual host-parasite relationship: the growth hormone-like factor from plerocercoids of spirometrid tapeworms. Phares K. **Int J Parasitol** 1996 Jun;26(6):575-88 (80 ref.)

Host response in tumor growth and progression. Michelson S, et al. **Invasion Metastasis** 1996;16(4-5):235-46 (31 ref.)

Growth factors and apoptosis in neonatal ureteral obstruction. Chevalier RL. **J Am Soc Nephrol** 1996 Aug; 7(8):1098-105 (54 ref.)

Intestinal effects of milkborne growth factors in neonates of agricultural importance. Odle J, et al. **J Anim Sci** 1996 Oct;74(10):2509-22 (120 ref.)

Akt is a direct target of the phosphatidylinositol 3-kinase. Activation by growth factors, v-src and v-Ha-ras, in Sf9 and mammalian cells. Datta K, et al. **J Biol Chem** 1996 Nov 29;271(48):30835-9

Altered cell shape is linked to increased p34cdc2 gene expression in fibroblasts expressing a mutant E2F-1 transcription factor. Logan TJ, et al. **J Cell Biochem** 1997 Apr;65(1):83-94

Role of macrophage-stimulating protein and its receptor, RON tyrosine kinase, in ciliary motility. Sakamoto O, et al. **J Clin Invest** 1997 Feb 15;99(4):701-9

A cholecystokinin-releasing factor mediates ethanol-induced stimulation of rat pancreatic secretion. Saluja AK, et al. **J Clin Invest** 1997 Feb 1;99(3):506-12

Processing and proliferative effects of human progastrin in transgenic mice. Wang TC, et al. **J Clin Invest** 1996 Oct 15;98(8):1918-29

Healing the epithelium: solving the problem from two sides. Podolsky DK. **J Gastroenterol** 1997 Feb;32(1):122-6 (33 ref.)

Keratinocyte growth factor is an endogenous stimulant of rabbit gastric epithelial cell proliferation and migration in primary culture. Takahashi M, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1089-96

Involvement of IL-10 in the autonomous growth of EBV-transformed B cell lines. Beatty PR, et al. **J Immunol** 1997 May 1;158(9):4045-51

IL-6 is an in vitro and in vivo autocrine growth factor for middle T antigen-transformed endothelial cells. Giraudo E, et al. **J Immunol** 1996 Sep 15;157(6):2618-23

Requirement for C-X-C chemokines (macrophage inflammatory protein-2 and cytokine-induced neutrophil chemoattractant) in IgG immune complex-induced lung injury. Shanley TP, et al. **J Immunol** 1997 Apr 1; 158(7):3439-48

A novel physiological function for platelet-derived growth factor-BB in rat dermis. Rodt SA, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):193-200

Follicular maturation and atresia--possible role of intraovarian regulatory factors. Mukhopadhyay AK, et al. **J Reprod Fertil Suppl** 1996;50:105-12

Follicular development through preantral stages: signalling via growth factors. Roy SK, et al. **J Reprod Fertil Suppl** 1996;50:83-94

Connective tissue activating peptide-V and CD59: a

molecule in search of a job [editorial] Cabral AR, et al. **J Rheumatol** 1996 Jul;23(7):1126–9

Glomerular epithelial cell products stimulate mesangial cell proliferation in culture. Budde K, et al. **Kidney Int** 1997 Sep;52(3):733–41

Role of extracellular matrix, growth factors and proto–oncogenes in metanephric development. Kanwar YS, et al. **Kidney Int** 1997 Sep;52(3):589–606 (240 ref.)

Soothing the troubled gut with trefoil factors [news] Featherstone C. **Lancet** 1997 Mar 8;349(9053):706

The role of soluble growth factors in inducing transient growth and clonal extinction of stroma cell dependent erythroblastic leukemia cells. Itoh K, et al. **Leukemia** 1997 Oct;11(10):1753–61

The molecular basis of embryonic kidney development. Lechner MS, et al. **Mech Dev** 1997 Mar;62(2):105–20 (120 ref.)

Signal transduction: specificity of growth factors explained by parallel distributed processing. Schamel WW, et al. **Med Hypotheses** 1996 Sep;47(3):249–55 (25 ref.)

Blockade of growth factor synthesis and growth factor action: two possible sites of interference in allograft vessel disease and coronary bypass or balloon injury. Häyry P, et al. **Metabolism** 1996 Aug;45(8 Suppl 1):101–3

Peptide growth factors and the adrenal cortex. Ho MM, et al. **Microsc Res Tech** 1997 Mar 15;36(6):558–68 (183 ref.)

Peptide growth factors: clinical and therapeutic strategies [editorial] Di Silverio F, et al. **Minerva Urol Nefrol** 1997 Jun;49(2):63–72 (43 ref.)

The role of an agrin–growth factor interaction in ACh receptor clustering. Daggett DF, et al. **Mol Cell Neurosci** 1996;8(4):272–85

Growth factors in angiogenesis: current interest and therapeutic potential. Colville–Nash PR, et al. **Mol Med Today** 1997 Jan;3(1):14–23 (59 ref.)

Growth factors, signalling and cancer. Konstantopoulos N, et al. **Mol Med Today** 1997 Jul;3(7):284–5

Mammalian oocyte growth in vitro is stimulated by soluble factor(s) produced by preantral granulosa cells and by Sertoli cells. Cecconi S, et al. **Mol Reprod Dev** 1996 Aug; 44(4):540–6

Growth factors in asthma. Vignola AM, et al. **Monaldi Arch Chest Dis** 1997 Apr;52(2):159–69 (151 ref.)

Growth factors and myelin regeneration in multiple sclerosis. Webster HD. **Mult Scler** 1997 Apr;3(2):113–20 (128 ref.)

Regulation of an extrathymic T–cell development pathway by oncostatin M. Clegg CH, et al. **Nature** 1996 Nov 21; 384(6606):261–3

Growth differentiation factor–9 is required during early ovarian folliculogenesis [see comments] Dong J, et al. **Nature** 1996 Oct 10;383(6600):531–5. Comment in: Nature 1996 Oct 10;383(6600):485–6.

Reproductive biology. The vocabulary of the egg [news; comment] Gosden R. **Nature** 1996 Oct 10;383(6600):485–6 . Comment on: Nature 1996 Oct 10;383(6600):531–6.

Role of growth factors in acute renal failure [editorial] Wang S, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1560–3 (17 ref.)

Role of cytokines and growth factors in glomerulonephritis: a chance for future therapeutic intervention. Johnson RJ. **Nephron** 1996;73(4):506–14 (64 ref.)

Dopamine differentiation factors produce partial motor recovery in 6–hydroxydopamine lesioned rats. Jin BK, et al. **Neurobiol Dis** 1995 Feb;2(1):1–12

Polypeptide growth factors in the nucleus: a review of function and translocation. Levine JE, et al. **Neuroimmunomodulation** 1995 Sep–Oct;2(5):290–8 (72 ref.)

Placenta and growth factors in fetal growth and nutrition [editorial] Garnica AD, et al. **Nutrition** 1997 Apr; 13(4):384–5 (27 ref.)

The human homologue of a bovine non–selenium glutathione peroxidase is a novel keratinocyte growth factor–regulated gene. Frank S, et al. **Oncogene** 1997 Feb 27;14(8):915–21

Amino acid residues which distinguish the mitogenic potentials of two FGF receptors. Wang JK, et al. **Oncogene** 1997 Apr 17;14(15):1767–78

Ciliary neurotrophic factor as a motor neuron trophic factor. Kuzis K, et al. **Perspect Dev Neurobiol** 1996;4(1):65–74 (89 ref.)

Cancer–stromal interaction through growth factor/cytokine networks implicated in growth of stomach cancer. Tahara E. **Princess Takamatsu Symp** 1994;24:187–94 (19 ref.)

Diazepam binding inhibitor is a potent cholecystokinin–releasing peptide in the intestine [published erratum appears in Proc Natl Acad Sci U S A 1996 Nov 26;93(24):14214] Herzig KH, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7927–32

Activins, inhibins, and follistatins: further thoughts on a growing family of regulators. Mather JP, et al. **Proc Soc Exp Biol Med** 1997 Jul;215(3):209–22 (175 ref.)

Activins and activin receptors in cell growth. Ying SY, et al. **Proc Soc Exp Biol Med** 1997 Feb;214(2):114–22 (114 ref.)

Neurotrophic factors. Thal LJ. **Prog Brain Res** 1996; 109:327–30 (38 ref.)

The role of growth factors in preimplantation development. Kaye PL, et al. **Prog Growth Factor Res** 1995;6(1):1–24 (165 ref.)

Effects of local growth factors on the secretory function of bovine corpus luteum during the oestrous cycle and pregnancy in vitro. Liebermann J, et al. **Reprod Fertil Dev** 1996;8(6):1003–11

NIEHS/EPA Workshops. Growth and differentiation factors. Sadler TW, et al. **Reprod Toxicol** 1997 Mar–Jun; 11(2–3):331–7

Hormones and growth factors in breast cancer. Bezwoda WR, et al. **S Afr Med J** 1995 Oct;85(10 Suppl):1101–6 (62 ref.)

Trefoil peptides: less clandestine in the intestine [comment] Chinery R, et al. **Science** 1996 Oct 11;274(5285):204. Comment on: Science 1996 Oct 11;274(5285):259–65. Comment on: Science 1996 Oct 11;274(5285)::262–5.

Impaired defense of intestinal mucosa in mice lacking intestinal trefoil factor [see comments] Mashimo H, et al. **Science** 1996 Oct 11;274(5285):262–5. Comment in: Science 1996 Oct 11;274(5285):204.

Growth factors sculpt the synapse [comment] Schuman E. **Science** 1997 Feb 28;275(5304):1277–8 (16 ref.). Comment on: Science 1997 Feb 28;275(5304):1318–20.

Neurotrophins and other growth factors in diabetic neuropathy. Zochodne DW. **Semin Neurol** 1996 Jun; 16(2):153–61 (87 ref.)

Growth factors and melanomas. Halaban R. **Semin Oncol** 1996 Dec;23(6):673–81 (145 ref.)

Growth factors and cytokines in uterine leiomyomas. Andersen J. **Semin Reprod Endocrinol** 1996 Aug; 14(3):269–82 (123 ref.)

Oviductal–derived growth factors and cytokines: implication in preimplantation. Chegini N. **Semin Reprod Endocrinol** 1996 Aug;14(3):219–29 (93 ref.)

Growth factors in ovarian follicle atresia. Chun SY, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):197–202 (39 ref.)

Growth factors in normal ovarian follicle development. Giudice LC, et al. **Semin Reprod Endocrinol** 1996 Aug; 14(3):179–96 (255 ref.)

Growth factors and polycystic ovarian syndrome. Giudice LC, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):203–8 (42 ref.)

Peritoneal growth factors and endometriosis. Oral E, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):257–67 (99 ref.)

Steroid and growth factor regulation of matrix metalloproteinase expression and endometriosis. Osteen KG, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):247–55 (75 ref.)

Growth factors and testicular function: relevance to disorders of spermatogenesis in humans. Smith EP, et al. **Semin Reprod Endocrinol** 1996 Aug;14(3):209–17 (114 ref.)

Growth factors and cytokines in endometrium, embryonic development, and maternal: embryonic interactions. Tazuke SI, et al. **Semin Reprod Endocrinol** 1996 Aug; 14(3):231–45 (162 ref.)

Signaling mechanisms in growth factor–stimulated cell motility. Anand–Apte B, et al. **Stem Cells** 1997;15(4):259–67 (112 ref.)

Role of growth factors in the developmental regulation of the human fetal adrenal cortex. Mesiano S, et al. **Steroids** 1997 Jan;62(1):62–72 (97 ref.)

The role of growth factors in wound healing. Steed DL. **Surg Clin North Am** 1997 Jun;77(3):575–86 (38 ref.)

Perpetual motion and glioma growth. Kornblith PL. **Surg Neurol** 1997 Mar;47(3):282–3 (7 ref.)

Corneal endothelium and growth factors. Hoppenreijs VP, et al. **Surv Ophthalmol** 1996 Sep–Oct;41(2):155–64 (141 ref.)

Angiogenesis: a dynamic balance of stimulators and inhibitors. Iruela–Arispe ML, et al. **Thromb Haemost** 1997 Jul;78(1):672–7 (60 ref.)

Oestrogen/growth factor cross–talk in breast carcinoma: a specific target for novel antioestrogens. de Cupis A, et al. **Trends Pharmacol Sci** 1997 Jul;18(7):245–51 (69 ref.)

Molecular aspects of restitution: functions of trefoil peptides. Poulsom R, et al. **Yale J Biol Med** 1996 Mar–Apr; 69(2):137–46

[Why does the prostate grow? Possible role of growth factors for development of benign prostatic hyperplasia] Tørring N, et al. **Ugeskr Laeger** 1997 May 5;159(19):2833–5 **(Dan)**

[What is/are the function(s) of trefoil peptides?] Rio MC. **Bull Cancer** 1997 Apr;84(4):443–6 (Eng. Abstr.) **(Fre)**

[Cell growth factors and tissue repair] Vaillant P. **Rev Mal Respir** 1996 Dec;13(6):555–8 (15 ref.) **(Fre)**

[Contraction of extracellular matrix by transdifferentiated retinal pigment epithelial cells, inducers and inhibitors] Grisanti S, et al. **Ophthalmologe** 1996 Dec;93(6):709–13 (Eng. Abstr.) **(Ger)**

[Function of keratinocyte growth factor in wound healing] Werner S, et al. **Zentralbl Chir** 1996;121 Suppl:20–1 **(Ger)**

[Trefoil peptides in the protection of the gastrointestinal mucosa] Rossi G. **Recenti Prog Med** 1997 May;88(5):201 **(Ita)**

[Embryonic induction and role of activins during early amphibian development] Asashima M, et al. **Hum Cell** 1996 Dec;9(4):277–82 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The clinical application of bioactive substances (editorial)] Mishima H. **Nippon Ganka Gakkai Zasshi** 1997 Jul; 101(7):549–50 **(Jpn)**

[Therapeutic potentials of neurotrophic factors for neurodegenerative disorders] Okazawa H. **No To Shinkei** 1996 Sep;48(9):795–802 (45 ref.) **(Jpn)**

[Role of growth factors in the eye] Kano K. **Seikagaku** 1996 Aug;68(8):1462–9 (12 ref.) **(Jpn)**

[A novel growth–regulating factor for vascular smooth muscle cells and its receptors, Gas6 and Axl/Sky] Nakano T. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(11):1543–9 (44 ref.) **(Jpn)**

[The role of locally synthesized growth factors and cytokines in pathogenesis of osteoporosis] Pindel B, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):487–91 (16 ref.) (Eng. Abstr.) **(Pol)**

[The role of natural growth stimulators in regulation of regeneration processes in small intestinal epithelium after irradiation] Dziekiewicz M. **Przegl Lek** 1996;53(8):610–3 (21 ref.) (Eng. Abstr.) **(Pol)**

[Growth factors in the defense of the gastric mucosal barrier] Piazuelo Ortega E, et al. **Gastroenterol Hepatol** 1997 May; 20 Suppl 2:37–43 (36 ref.) **(Spa)**

[Participation of growth factors in human reproduction] Marín–Cantú VA, et al. **Ginecol Obstet Mex** 1997 Jan; 65:27–32 (68 ref.) (Eng. Abstr.) **(Spa)**

[The role of growth factors during follicular development and maturation in the mammal ovary] Ortega–Camarillo C, et al. **Ginecol Obstet Mex** 1997 Feb;65:68–77 (Eng. Abstr.) **(Spa)**

[Cytokines, growth factors, and metabolic bone disease] Pumarino H, et al. **Rev Med Chil** 1996 Feb;124(2):248–57 (35 ref.) (Eng. Abstr.) **(Spa)**

SECRETION

The GH/IGF–I axis in puberty. Loche S, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:1–4 (22 ref.)

Mitogenic factors released from smooth muscle cells are responsible for neointimal cell proliferation after balloon catheter deendothelialization. Li Z, et al. **Exp Mol Pathol** 1995 Oct;63(2):77–86

Interleukin–1 stimulates rapid release of cytokine–induced neutrophil chemoattractant (CINC) in rat lungs. Hybertson BM, et al. **Inflammation** 1996 Oct;20(5):471–83

Growth factor/cytokine secretion by a permanent human endometrial cell line with embryotrophic properties. Desai NN, et al. **J Assist Reprod Genet** 1996 Aug;13(7):546–50

A stress–sensitive chemokinergic neuronal pathway in the hypothalamo–pituitary system. Sakamoto Y, et al. **Neuroscience** 1996 Nov;75(1):133–42

THERAPEUTIC USE

Keratinocyte growth factor ameliorates radiation– and bleomycin–induced lung injury and mortality. Yi ES, et al. **Am J Pathol** 1996 Dec;149(6):1963–70

Treatment and prognostic factors in acute myeloid leukaemia. Rowe JM, et al. **Baillieres Clin Haematol** 1996 Mar; 9(1):87–105 (114 ref.)

Regulation of oligodendrocyte development and CNS myelination by growth factors: prospects for therapy of demyelinating disease. McMorris FA, et al. **Brain Pathol** 1996 Jul;6(3):313–29 (170 ref.)

An investigation into the potential of extracellular matrix factors for attachment and proliferation of human keratinocytes on skin substitutes. Daniels JT, et al. **Burns** 1997 Feb;23(1):26–31

Acceleration of skin graft healing by growth factors. Wang HJ, et al. **Burns** 1996 Feb;22(1):10–4

Metabolic support of the gastrointestinal tract: potential gut protection during intensive cytotoxic therapy. Wilmore DW. **Cancer** 1997 May 1;79(9):1794–803 (72 ref.)

Growth factors as drugs for neurological and sensory disorders. Introduction. Kessler JA, et al. **Ciba Found Symp** 1996;196:1–2

Growth factors in the treatment of degenerative retinal disorders. Reh TA, et al. **Ciba Found Symp** 1996; 196:120–31; discussion 131–4 (50 ref.)

New treatments for acute renal failure: growth factors and beyond [editorial] Hammerman MR. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):7–9 (15 ref.)

The use of growth factors to increase glomerular filtration rate in chronic renal failure patients. Miller SB, et al. **Curr Opin Nephrol Hypertens** 1997 Jul;6(4):401–4 (30 ref.)

Effect of platelet–derived growth factor–BB on bone formation in calvarial defects: an experimental study in rabbits. Vikjaer D, et al. **Eur J Oral Sci** 1997 Feb; 105(1):59–66

Hematologic disorders and growth factor support in HIV infection. Scadden DT. **Hematol Oncol Clin North Am** 1996 Oct;10(5):1149–61 (100 ref.)

Effects of growth factors on cartilage repair. Coutts RD, et al. **Instr Course Lect** 1997;46:487–94 (95 ref.)

Growth factor treatment of fractures. Einhorn TA, et al. **Instr Course Lect** 1997;46:483–6 (34 ref.)

Growth factors as potential therapeutic agents in osteoporosis. Mundy GR. **Instr Course Lect** 1997;46:495–8 (31 ref.)

Growth factor treatment of disorders of skeletal growth. Trippel SB, et al. **Instr Course Lect** 1997;46:477–82 (37 ref.)

Growth factors as therapeutic agents. Trippel SB. **Instr Course Lect** 1997;46:473–6 (27 ref.)

Clinical use of hematopoietic growth factors in patients with myelodysplastic syndromes. Geissler RG, et al. **Int J Hematol** 1997 Jun;65(4):339–54 (161 ref.)

Craniofacial growth in short children born small for gestational age: effect of growth hormone treatment. van Erum R, et al. **J Dent Res** 1997 Sep;76(9):1579–86

Treatment strategies for neurodegenerative diseases based on trophic factors and cell transplantation techniques. Hoffer B, et al. **J Neural Transm Suppl** 1997;49:1–10 (31 ref.)

Cephalon adds to clinical disappointment in 1997 [news] Glaser V. **Nat Biotechnol** 1997 Jun;15(6):495–6

GROWTH SUBSTANCES

The effect of the platelet derived wound healing formula and the nerve growth factor on the experimentally injured spinal cord. Hiraizumi Y, et al. **Spinal Cord** 1996 Jul; 34(7):394–402

Multiple statistics for multiple events, with application to repeated infections in the growth factor studies. Barai U, et al. **Stat Med** 1997 Apr 30;16(8):941–9

Apoptosis down–regulates inflammation under the advancing epithelial wound edge: delayed patterns in diabetes and improvement with topical growth factors. Brown DL, et al. **Surgery** 1997 Apr;121(4):372–80

[Therapeutic potentials of neurotrophic factors for neurodegenerative disorders] Okazawa H. **No To Shinkei** 1996 Sep;48(9):795–802 (45 ref.) **(Jpn)**

TOXICITY

The effects of platelet–derived growth factor–BB and insulin–like growth factor–1 on epithelial dysplasia. Shih SD, et al. **J Periodontol** 1996 Nov;67(11):1224–32

URINE

Isolation and N–terminal sequence of multiple forms of granulins in human urine. Sparro G, et al. **Protein Expr Purif** 1997 Jul;10(2):169–74

GRYLLIDAE

ANATOMY & HISTOLOGY

The diverse layout of amine–containing systems in the ventral cord of an insect. Schürmann FW, et al. **Acta Biol Hung** 1995;46(2–4):485–90

The auditory–vibratory system of the bushcricket Polysarcus denticauda (Phaneropterinae, Tettigoniidae). I. Morphology of the complex tibial organs. Sickmann T, et al. **Hear Res** 1997 Feb;104(1–2):155–66

Ultrastructure of synaptic contacts between identified neurons of the auditory pathway in Gryllus bimaculatus DeGeer. Hirtz R, et al. **J Comp Neurol** 1997 Sep 29; 386(3):347–57

CHEMISTRY

Distribution of sulfakinin–like peptides in the central and sympathetic nervous system of the American cockroach, Periplaneta americana (L.) and the field cricket, Teleogryllus commodus (Walker). East PD, et al. **Tissue Cell** 1997 Jun;29(3):347–54

DRUG EFFECTS

Specific requirement of putrescine for the mitogenic action of juvenile hormone on adult insect neuroblasts. Cayre M, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8238–42

ENZYMOLOGY

Casein kinase II activity in the brain of an insect, Acheta domesticus: characterization and hormonal regulation. Degrelle F, et al. **Arch Insect Biochem Physiol** 1997; 34(1):69–81

Biochemical characterization of juvenile hormone esterases from lines selected for high or low enzyme activity in Gryllus assimilis. Zera AJ, et al. **Biochem Genet** 1996 Dec; 34(11–12):421–35

GENETICS

Tandemly repeated satellite DNA of Dolichopoda schiavazzii: a test for models on the evolution of highly repetitive DNA. Bachmann L, et al. **J Mol Evol** 1996 Aug; 43(2):135–44

METABOLISM

The diverse layout of amine–containing systems in the ventral cord of an insect. Schürmann FW, et al. **Acta Biol Hung** 1995;46(2–4):485–90

Endogenous ecdysteroid levels and rates of ecdysone acylation by intact ovaries in vitro in relation to ovarian development in adult female crickets, Acheta domesticus. Whiting P, et al. **Arch Insect Biochem Physiol** 1997; 35(3):279–99

Histamine–like immunoreactivity in the visual system and brain of an orthopteran and a hymenopteran insect. Bornhauser BC, et al. **Cell Tissue Res** 1997 Jan; 287(1):211–21

The distribution of histamine–immunoreactive neurons in the ventral nerve cord of the cricket, Gryllus bimaculatus. Hörner M, et al. **Cell Tissue Res** 1996 Dec;286(3):393–405

PHYSIOLOGY

Comparison of song frequency and receptor tuning in two closely related bushcricket species. Kalmring K, et al. **Acta Biol Hung** 1995;46(2–4):457–69

Inhibition of polyamine biosynthesis alters oviposition behavior in female crickets. Cayre M, et al. **Behav Neurosci** 1996 Oct;110(5):1117–25

Spatial acuity of ultrasound hearing in flying crickets. Wyttenbach RA, et al. **J Exp Biol** 1997 Jul;200 (Pt 14):1999–2006

Effects of adaptation on neural coding by primary sensory interneurons in the cricket cercal system. Clague H, et al. **J Neurophysiol** 1997 Jan;77(1):207–20

VIROLOGY

A molecular taxonomy for cricket paralysis virus including two new isolates from Australian populations of Drosophila (Diptera: Drosophilidae). Johnson KN, et al. **Arch Virol** 1996;141(8):1509–22

GS, STIMULATORY G–PROTEIN see **G–PROTEIN, STIMULATORY GS**

GT, TRANSDUCIN G–PROTEIN see **TRANSDUCIN**

GTP see **GUANOSINE TRIPHOSPHATE**

GTP–BINDING PROTEINS

ANALYSIS

Analysis of small GTP–binding proteins of the lens by GTP overlay assay reveals the presence of unique GTP–binding proteins associated with fiber cells. Rao PV, et al. **Exp Eye Res** 1997 Feb;64(2):219–27

BIOSYNTHESIS

Differential expression of protein kinase C isozymes and small GTP–binding proteins during HL60 cell differentiation by retinoic acid and cyclic AMP: relation with phospholipase D (PLD) activation. Nakashima S, et al. **Immunobiology** 1996–97;196(5):588–98

Differential expression of low Mr GTP–binding proteins in human megakaryoblastic leukemia cell line, MEG–01, and their possible involvement in the differentiation process. Nagata K, et al. **Thromb Haemost** 1997 Feb;77(2):368–75

CHEMISTRY

A low–molecular–mass GTP–binding protein in the cytosol of germinated wheat embryos. Sacchi GA, et al. **Eur J Biochem** 1996 Oct 1;241(1):286–90

Rab proteins of Drosophila melanogaster: novel members of the Rab–protein family. Satoh AK, et al. **FEBS Lett** 1997 Mar 3;404(1):65–9

Rem is a new member of the Rad– and Gem/Kir Ras–related GTP–binding protein family repressed by lipopolysaccharide stimulation. Finlin BS, et al. **J Biol Chem** 1997 Aug 29;272(35):21982–8

GTP–binding proteins 1: heterotrimeric G proteins. Pennington SR. **Protein Profile** 1995;2(3):167–315 (3314 ref.)

How Ras–related proteins talk to their effectors. Wittinghofer A, et al. **Trends Biochem Sci** 1996 Dec;21(12):488–91 (36 ref.)

DRUG EFFECTS

Rho proteins: targets for bacterial toxins. Aktories K. **Trends Microbiol** 1997 Jul;5(7):282–8 (41 ref.)

GENETICS

Isolation of a novel human cDNA (rhoHP1) homologous to rho genes. Shimizu F, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):13–6

Structure and expression of the mouse S10 gene. Zheng JY, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):47–50

AF10 is split by MLL and HEAB, a human homolog to a putative Caenorhabditis elegans ATP/GTP–binding protein in an invins(10;11)(p12;q23q12). Tanabe S, et al. **Blood** 1996 Nov 1;88(9):3535–45

Cloning of a novel nucleolar guanosine 5'–triphosphate binding protein autoantigen from a breast tumor. Racevskis J, et al. **Cell Growth Differ** 1996 Feb;7(2):271–80

The product of the molybdenum cofactor gene mobB of Escherichia coli is a GTP–binding protein. Eaves DJ, et al. **Eur J Biochem** 1997 Jun 15;246(3):690–7

Rab proteins of Drosophila melanogaster: novel members of the Rab–protein family. Satoh AK, et al. **FEBS Lett** 1997 Mar 3;404(1):65–9

Assignment of the dynamin–1 gene (DNM1) to human chromosome 9q34 by fluorescence in situ hybridization and somatic cell hybrid analysis. Newman–Smith ED, et al. **Genomics** 1997 Apr 15;41(2):286–9

Restoration of lipopolysaccharide–mediated B–cell response after expression of a cDNA encoding a GTP–binding protein. Kang AD, et al. **Infect Immun** 1996 Nov; 64(11):4612–7

A novel class of RanGTP binding proteins. Görlich D, et al. **J Cell Biol** 1997 Jul 14;138(1):65–80

A 4–base pair deletion mutation of Gs alpha gene in a Japanese patient with pseudohypoparathyroidism. Yokoyama M, et al. **J Endocrinol Invest** 1996 Apr; 19(4):236–41

Localisation of cardiac GS alpha in transgenic mice overexpressing GS alpha. Muntz KH, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1649–53

Interaction of an adenovirus 14.7–kilodalton protein inhibitor of tumor necrosis factor alpha cytolysis with a new member of the GTPase superfamily of signal transducers. Li Y, et al. **J Virol** 1997 Feb;71(2):1576–82

The mRNA encoding a beta subunit of heterotrimeric GTP–binding proteins is localized to the animal pole of Xenopus laevis oocyte and embryos. Devic E, et al. **Mech Dev** 1996 Oct;59(2):141–51

ISOLATION & PURIFICATION

Purification and functional reconstitution with GTP–binding regulatory proteins of hexahistidine–tagged muscarinic acetylcholine receptors (m2 subtype). Hayashi MK, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1232–8

METABOLISM

Modulatory role of GTP–binding proteins in the endogenous ADP–ribosylation of cytosolic proteins. Di Girolamo M, et al. **Adv Exp Med Biol** 1997;419:343–7 (18 ref.)

Non–genomic mechanisms of glucocorticoid inhibition of adrenocorticotropin secretion: possible involvement of GTP–binding protein. Iwasaki Y, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):295–9

ADP–ribosylation of the GTP–binding protein RhoA blocks cytoplasmic division in human myelomonocytic cells. Aepfelbacher M, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):853–8

Interaction of Nck–associated protein 1 with activated GTP–binding protein Rac. Kitamura Y, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):873–8

Relationship between specific binding of 125I–omega–conotoxin GVIA and GTP binding protein: effects of the GTP analogues, mastoparan and AlF4–. Ichida S, et al. **Biochim Biophys Acta** 1997 Apr 26; 1325(2):215–25

Participation of GTP–binding protein in the photo–transduction of Paramecium bursaria. Shinozawa T, et al. **Cell Struct Funct** 1996 Dec;21(6):469–74

Glucose stimulates islet beta–cell mitogenesis through GTP–binding proteins and by protein kinase C–dependent mechanisms. Sjöholm A. **Diabetes** 1997 Jul;46(7):1141–7

An evolutionarily conserved U5 snRNP–specific protein is a GTP–binding factor closely related to the ribosomal translocase EF–2. Fabrizio P, et al. **EMBO J** 1997 Jul 1; 16(13):4092–106

Specific expression of heterotrimeric G proteins G12 and G16 during human myeloid differentiation. Tenailleau S, et al. **Exp Hematol** 1997 Aug;25(9):927–34

Interplay between Ras–related and heterotrimeric GTP binding proteins: lifestyles of the BIG and little. Bokoch GM. **FASEB J** 1996 Sep;10(11):1290–5 (71 ref.)

The SpoIIAA protein of Bacillus subtilis has GTP–binding properties. Najafi SM, et al. **J Bacteriol** 1996 Nov; 178(22):6632–4

Evidence for endogenous ADP–ribosylation of GTP–binding proteins in neuronal cell nucleus. Possible induction by membrane depolarization. Cohen–Armon M, et al. **J Biol Chem** 1996 Oct 18;271(42):26200–8

Characterization of two alternately spliced forms of phospholipase D1. Activation of the purified enzymes by phosphatidylinositol 4,5–bisphosphate, ADP–ribosylation factor, and Rho family monomeric GTP–binding proteins and protein kinase C–alpha. Hammond SM, et al. **J Biol Chem** 1997 Feb 7;272(6):3860–8

Characterization of chemical inhibitors of brefeldin A–activated mono–ADP–ribosylation. Weigert R, et al. **J Biol Chem** 1997 May 30;272(22):14200–7

Prenylation of an interferon–gamma–induced GTP–binding protein: the human guanylate binding protein, huGBP1. Nantais DE, et al. **J Leukoc Biol** 1996 Sep;60(3):423–31

Regulation of phospholipase D by low molecular weight GTP–binding proteins. Kanaho Y, et al. **J Lipid Mediat Cell Signal** 1996 Sep;14(1–3):223–7 (15 ref.)

Localisation of cardiac GS alpha in transgenic mice overexpressing GS alpha. Muntz KH, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1649–53

Pneumocystis carinii infection alters GTP–binding proteins in the lung. Oz HS, et al. **J Parasitol** 1997 Aug;83(4):679–85

Interaction of guanosine 5'–triphosphate binding protein Gq from Sepia officinalis with illuminated rhodopsin bound to concanavalin A. von der Heide W, et al. **J Photochem Photobiol B** 1996 Aug;35(1–2):25–31

Cyclosporin A potentiates receptor–activated [Ca2+]c increase. Lo Russo A, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):149–61

Seven helix receptors are enzymes catalysing G protein activation. What is the agonist Kact? Waelbroeck M, et al. **J Theor Biol** 1997 Jul 7;187(1):15–37

Functional coupling of Gi subtype with GABAB receptor/adenylyl cyclase system: analysis using a reconstituted system with purified GTP–binding protein from bovine cerebral cortex. Nishikawa M, et al. **Neurochem Int** 1997 Jul;31(1):21–5

Cytohesin–1, a cytosolic guanine nucleotide–exchange protein for ADP–ribosylation factor. Meacci E, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1745–8

How Ras–related proteins talk to their effectors. Wittinghofer A, et al. **Trends Biochem Sci** 1996 Dec;21(12):488–91 (36 ref.)

[The molecular determinants of receptors and GTP–binding proteins that define the specificity of the interactions between them] Shpakov AO. **Zh Evol Biokhim Fiziol** 1996 Jul–Aug;32(4):488–510 (127 ref.) **(Rus)**

PHYSIOLOGY

Mechanism of autophagy in permeabilized hepatocytes: evidence for regulation by GTP binding proteins. Kadowaki M, et al. **Adv Exp Med Biol** 1996;389:113–9 (17 ref.)

Formation of secretory vesicles in the biosynthetic pathway. Urbé S, et al. **Biochim Biophys Acta** 1997 Aug 21; 1358(1):6–22 (143 ref.)

Sphingosine 1–phosphate stimulates hydrogen peroxide generation through activation of phospholipase C–Ca2+ system in FRTL–5 thyroid cells: possible involvement of guanosine triphosphate–binding proteins in the lipid signaling. Okajima F, et al. **Endocrinology** 1997 Jan; 138(1):220–9

Study of the interaction of the myelin monomeric GTP–binding proteins with other brain proteins. Rodriguez–Gabin AG, et al. **J Neurochem** 1997 Mar; 68(3):1011–20

GTP–binding protein activation underlies LTP induction by mast cell degranulating peptide. Fujimoto I, et al. **Neurosci Res** 1996 Jul;25(3):229–37

[Involvement of G proteins between receptors and KCa channels in the regulation of airway tone by the autonomic nervous system] Kume H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec;33 Suppl:116–24 (Eng. Abstr.) **(Jpn)**

[Alpha beta gamma–heterotrimeic GTP–binding proteins] Katada T. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):353–63 (70 ref.) **(Jpn)**

[Signal transduction pathways mediated by small GTPases and protein kinases] Kuroda S, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1258–64 (44 ref.) **(Jpn)**

GTP CYCLOHYDROLASE

ANALYSIS

High–performance liquid chromatographic methods for the quantification of tetrahydrobiopterin biosynthetic enzymes. Werner ER, et al. **J Chromatogr B Biomed Appl** 1996 Sep 20;684(1–2):51–8 (65 ref.)

Transient appearance of GTP cyclohydrolase I—positive non–monoaminergic neurons in the ventral lateral geniculate nucleus of postnatal mice. Nagatsu I, et al. **Neurosci Lett** 1996 Sep 6;215(2):79–82

ANTAGONISTS & INHIBITORS

Tetrahydrobiopterin synthesis inhibitors induce nitric oxide synthesis in rat aorta. Joly GA, et al. **Gen Pharmacol** 1997 Mar;28(3):475–80

GTP cyclohydrolase I feedback regulatory protein is a pentamer of identical subunits. Purification, cDNA cloning, and bacterial expression. Yoneyama T, et al. **J Biol Chem** 1997 Apr 11;272(15):9690–6

BIOSYNTHESIS

Interleukin 1 beta and cAMP trigger the expression of GTP cyclohydrolase I in rat renal mesangial cells. Plüss C, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):665–71

GTP cyclohydrolase I mRNA induction and tetrahydrobiopterin synthesis in human endothelial cells. Hattori Y, et al. **Biochim Biophys Acta** 1997 Aug 21; 1358(1):61–6

Tetrahydrobiopterin biosynthesis in C6 glioma cells: induction of GTP cyclohydrolase I gene expression by lipopolysaccharide and cytokine treatment. D'Sa C, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):105–10

Induction of guanosine triphosphate–cyclohydrolase by follicle–stimulating hormone enhances interleukin–1 beta–stimulated nitric oxide synthase activity in granulosa cells. Tabraue C, et al. **Endocrinology** 1997 Jan;138(1):162–8

Endothelin–1 inhibits induction of nitric oxide synthase and GTP cyclohydrolase I in rat mesangial cells. Hirahashi J, et al. **Pharmacology** 1996 Oct;53(4):241–9

GENETICS

Expression of nitric oxide synthases and GTP cyclohydrolase I in the ventilatory and limb muscles during endotoxemia. Hussain SN, et al. **Am J Respir Cell Mol Biol** 1997 Aug; 17(2):173–80

Mutant GTP cyclohydrolase I mRNA levels contribute to dopa–responsive dystonia onset. Hirano M, et al. **Ann Neurol** 1996 Nov;40(5):796–8

Differential splicing of the GTP cyclohydrolase I RNA in dopa–responsive dystonia. Hirano M, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):316–9

Molecular cloning of a cDNA coding for GTP cyclohydrolase I from Dictyostelium discoideum. Witter K, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):27–32

Molecular genetics of hereditary dystonia—mutations in the GTP cyclohydrolase I gene. Ichinose H, et al. **Brain Res Bull** 1997;43(1):35–8 (26 ref.)

Dopa–responsive dystonia in British patients: new mutations of the GTP–cyclohydrolase I gene and evidence for genetic heterogeneity. Bandmann O, et al. **Hum Mol Genet** 1996 Mar;5(3):403–6

Mutations in the GTP cyclohydrolase I and 6–pyruvoyl–tetrahydropterin synthase genes. Thöny B, et al. **Hum Mutat** 1997;10(1):11–20 (54 ref.)

GTP cyclohydrolase I gene, dystonia, juvenile parkinsonism, and Parkinson's disease. Nagatsu T, et al. **J Neural Transm Suppl** 1997;49:203–9 (30 ref.)

A novel point mutation in the GTP cyclohydrolase I gene in a Spanish family with hereditary progressive and dopa responsive dystonia [letter] Beyer K, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):420–1

The GTP–cyclohydrolase I gene in atypical parkinsonian patients: a clinico–genetic study. Bandmann O, et al. **J Neurol Sci** 1996 Sep 15;141(1–2):27–32

Mutations in GTP–cyclohydrolase I gene and vitiligo [letter] de la Fuente–Fernández R. **Lancet** 1997 Aug 30; 350(9078):640

Tetrahydrobiopterin biosynthesis in the rat brain: heterogeneity of GTP cyclohydrolase I mRNA expression in monoamine–containing neurons [published erratum appears in Neurochem Int 1996 Oct;29(4):I–II] Lentz SI, et al. **Neurochem Int** 1996 May–Jun;28(5–6):569–82

GTP cyclohydrolase I gene, tetrahydrobiopterin, and tyrosine hydroxylase gene: their relations to dystonia and parkinsonism. Nagatsu T, et al. **Neurochem Res** 1996 Feb; 21(2):245–50 (47 ref.)

[Hereditary progressive dystonia with marked diurnal fluctuation—clinical features and GTP cyclohydrolase I gene mutations] Tamaru Y, et al. **Nippon Rinsho** 1997 Jan; 55(1):135–8 (21 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

The pathway from GTP to tetrahydrobiopterin: three–dimensional structures of GTP cyclohydrolase I and 6–pyruvoyl tetrahydropterin synthase. Auerbach G, et al. **Biol Chem** 1997 Mar–Apr;378(3–4):185–92 (39 ref.)

Coordinate induction of tetrahydrobiopterin synthesis and nitric oxide synthase activity in chicken macrophages: upregulation of GTP–cyclohydrolase I activity. Kaspers B, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun;117(2):209–15

Tetrahydrobiopterin and GTP cyclohydrolase I in a rat model of endotoxic shock: relation to nitric oxide synthesis. Hattori Y, et al. **Exp Physiol** 1996 Jul;81(4):665–71

Immunocytochemical localization of GTP cyclohydrolase I in the brain, adrenal gland, and liver of mice. Nagatsu I, et al. **J Neural Transm Gen Sect** 1995;102(3):175–188

Regulation of cerebellar nitric oxide production in response to prolonged in vivo hypoxia. Guo Y, et al. **J Neurosci Res** 1997 Jul 1;49(1):89–97

Biosynthesis of riboflavin: GTP cyclohydrolase II, deaminase, and reductase. Bacher A, et al. **Methods Enzymol** 1997;280:382–9

Determination of tetrahydrobiopterin biosynthetic activities by high–performance liquid chromatography with fluorescence detection. Werner ER, et al. **Methods Enzymol** 1997;281:53–61

Tyrosine hydroxylase (TH)–only–immunoreactive non–catecholaminergic neurons in the brain of wild mice or the human TH transgenic mice do not contain GTP cyclohydrolase I. Nagatsu I, et al. **Neurosci Lett** 1997 May 30;228(1):55–7

Immunohistochemical colocalization of GTP cyclohydrolase I in the nigrostriatal system with tyrosine hydroxylase. Nagatsu I, et al. **Neurosci Lett** 1997 Mar 21;224(3):185–8

PHYSIOLOGY

NF–kappa B and GTP cyclohydrolase regulate cytokine–induced nitric oxide production by cardiac myocytes. Oddis CV, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1864–8

GTP DIHYDROLASE see **GTP CYCLOHYDROLASE**

GTP 8–FORMYLHYDROLASE see **GTP CYCLOHYDROLASE**

GTP GAMMA S see **GUANOSINE 5'–O–(3–THIOTRIPHOSPHATE)**

GTP PHOSPHOHYDROLASE

ANALYSIS

Colocalization of tissue transglutaminase and stress fibers in human vascular smooth muscle cells and human umbilical vein endothelial cells. Chowdhury ZA, et al. **Exp Cell Res** 1997 Feb 25;231(1):38–49

Subcellular localization of the small GTPase Rab5a in resting and stimulated human neutrophils [published erratum appears in Exp Cell Res 1997 Feb 1;230(2):415] Vita F, et al. **Exp Cell Res** 1996 Sep 15;227(2):367–73

Assays for the measurement of tissue transglutaminase (type II) mediated protein crosslinking via epsilon–(gamma–glutamyl) lysine and N',N'–bis (gamma–glutamyl) polyamine linkages using biotin labelled casein. Lilley GR, et al. **J Biochem Biophys Methods** 1997 Feb 1;34(1):31–43

ANTAGONISTS & INHIBITORS

Differential effects of colchicine and its B–ring modified analog MTPT on the assembly–independent GTPase activity of purified beta–tubulin isoforms from bovine brain. Banerjee A. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):698–700

Aripiprazole, a novel antipsychotic drug, inhibits quinpirole–evoked GTPase activity but does not up–regulate dopamine D2 receptor following repeated treatment in the rat striatum. Inoue A, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):105–11

Inhibition of the GDP/GTP exchange reaction of ras p21 by aluminum ion. Landino LM, et al. **J Inorg Biochem** 1997 May 1;66(2):99–102

Calcium binds dynamin I and inhibits its GTPase activity. Liu JP, et al. **J Neurochem** 1996 May;66(5):2074–81

BIOSYNTHESIS

Muscle Rad expression and human metabolism: potential role of the novel Ras–related GTPase in energy expenditure and body composition. Garvey WT, et al. **Diabetes** 1997 Mar;46(3):444–50

A Francisella tularensis DNA clone complements Escherichia coli defective for the production of Era, an essential Ras–like GTP–binding protein. Zuber M, et al. **Gene** 1997 Apr 11;189(1):31–4

Nedd5, a mammalian septin, is a novel cytoskeletal component interacting with actin–based structures. Kinoshita M, et al. **Genes Dev** 1997 Jun 15;11(12):1535–47

The expression of endosomal rab proteins correlates with endocytic rate in rat liver cells. Juvet LK, et al. **Hepatology** 1997 May;25(5):1204–12

Tissue transglutaminase expression in human breast cancer. Hettasch JM, et al. **Lab Invest** 1996 Nov;75(5):637–45

BLOOD

Small GTPase–regulated phospholipase D in granulocytes. Houle MG, et al. **Biochem Cell Biol** 1996;74(4):459–67 (96 ref.)

CHEMISTRY

Linear free energy relationships in the intrinsic and GTPase activating protein–stimulated guanosine 5'–triphosphate hydrolysis of p21ras. Schweins T, et al. **Biochemistry** 1996 Nov 12;35(45):14225–31

Mechanistic analysis of the observed linear free energy relationships in p21ras and related systems. Schweins T, et al. **Biochemistry** 1996 Nov 12;35(45):14232–43

Cotranscription of a GTPase gene from the cyanobacterium Synechocystis PCC 6803 and a P–type Ca(2+)–ATPase gene. Geisler M, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):189–93

Classification of protein families and detection of the determinant residues with an improved self–organizing map. Andrade MA, et al. **Biol Cybern** 1997 Jun; 76(6):441–50

Regulatory GTPases. Hilgenfeld R. **Curr Opin Struct Biol** 1995 Dec;5(6):810–7 (80 ref.)

Specific role for the PH domain of dynamin–1 in the regulation of rapid endocytosis in adrenal chromaffin cells. Artalejo CR, et al. **EMBO J** 1997 Apr 1;16(7):1565–74

Two GTPase isoforms, Ypt31p and Ypt32p, are essential for Golgi function in yeast. Benli M, et al. **EMBO J** 1996 Dec 2;15(23):6460–75

Distinct specificity in the recognition of phosphoinositides by the pleckstrin homology domains of dynamin and Bruton's tyrosine kinase. Salim K, et al. **EMBO J** 1996 Nov 15;15(22):6241–50

The N–domain of the signal recognition particle 54–kDa subunit promotes efficient signal sequence binding. Newitt JA, et al. **Eur J Biochem** 1997 May 1;245(3):720–9

A target of phosphatidylinositol 3,4,5–trisphosphate with a zinc finger motif similar to that of the ADP–ribosylation–factor GTPase–activating protein and two pleckstrin homology domains. Tanaka K, et al. **Eur J Biochem** 1997 Apr 15;245(2):512–9

Nedd5, a mammalian septin, is a novel cytoskeletal component interacting with actin–based structures. Kinoshita M, et al. **Genes Dev** 1997 Jun 15;11(12):1535–47

Mutations within the Ran/TC4 GTPase. Effects on regulatory factor interactions and subcellular localization. Lounsbury KM, et al. **J Biol Chem** 1996 Dec 20; 271(51):32834–41

The main–chain dynamics of the dynamin pleckstrin homology (PH) domain in solution: analysis of 15N relaxation with monomer/dimer equilibration. Fushman D, et al. **J Mol Biol** 1997 Feb 14;266(1):173–94

Confirmation of the arginine–finger hypothesis for the GAP–stimulated GTP–hydrolysis reaction of Ras [letter] Ahmadian MR, et al. **Nat Struct Biol** 1997 Sep;4(9):686–9

Turning off the Ras switch with the flick of a finger [news] Noel JP. **Nat Struct Biol** 1997 Sep;4(9):677–80

Structure of the conserved GTPase domain of the signal recognition particle. Freymann DM, et al. **Nature** 1997 Jan 23;385(6614):361–4

Crystal structure of the NG domain from the signal–recognition particle receptor FtsY. Montoya G, et al. **Nature** 1997 Jan 23;385(6614):365–8

Crystallization and preliminary X–ray crystallographic study of the Ras–GTPase–activating domain of human p120GAP. Scheffzek K, et al. **Proteins** 1997 Feb;27(2):315–8

DRUG EFFECTS

Activation of R–Ras GTPase by GTPase–activating proteins for Ras, Gap1(m), and p120GAP. Li S, et al. **J Biol Chem** 1997 Aug 1;272(31):19328–32

GENETICS

Elongation factor Tu, a GTPase triggered by codon recognition on the ribosome: mechanism and GTP consumption. Rodnina MV, et al. **Biochem Cell Biol** 1995 Nov–Dec;73(11–12):1221–7 (42 ref.)

Prenylation of a Rab1B mutant with altered GTPase activity is impaired in cell-free systems but not in intact mammalian cells. Wilson AL, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1007-14

RAB GTPases expressed in human melanoma cells. Chen D, et al. **Biochim Biophys Acta** 1997 Jan 10;1355(1):1-6

Cotranscription of a GTPase gene from the cyanobacterium Synechocystis PCC 6803 and a P-type Ca(2+)-ATPase gene. Geisler M, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):189-93

Cloning of two splicing variants of the novel Ras-related GTPase Rab29 which is predominantly expressed in kidney. Massmann S, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):48-55

Structure and regulation of the Salmonella typhimurium rnc-era-recO operon. Anderson PE, et al. **Biochimie** 1996; 78(11-12):1025-34

Role of a new Rho family member in cell migration and axon guidance in C. elegans. Zipkin ID, et al. **Cell** 1997 Sep 5;90(5):883-94

Deletion of the putative effector region of Era, an essential GTP-binding protein in Escherichia coli, causes a dominant-negative phenotype. Pillutla RC, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):47-55

Mutational analysis of Era, an essential GTP-binding protein of Escherichia coli. Shimamoto T, et al. **FEMS Microbiol Lett** 1996 Feb 1;136(1):57-62

Characterization of a Phytophthora infestans gene involved in vesicle transport. Chen Y, et al. **Gene** 1996 Nov 28; 181(1-2):89-94

A Francisella tularensis DNA clone complements Escherichia coli defective for the production of Era, an essential Ras-like GTP-binding protein. Zuber M, et al. **Gene** 1997 Apr 11;189(1):31-4

Genetic analysis of the Saccharomyces cerevisiae RHO3 gene, encoding a rho-type small GTPase, provides evidence for a role in bud formation. Imai J, et al. **Genetics** 1996 Feb;142(2):359-69

Genomic structure and assignment of the RhoH/TTF small GTPase gene (ARHH) to 4p13 by in situ hybridization. Dallery-Prudhomme E, et al. **Genomics** 1997 Jul 1; 43(1):89-94

Cloning and mapping of human Rab7 and Rab9 cDNA sequences and identification of a Rab9 pseudogene. Davies JP, et al. **Genomics** 1997 Apr 1;41(1):131-4

Dynamin genes Dnm1 and Dnm2 are located on proximal mouse chromosomes 2 and 9, respectively. Klocke R, et al. **Genomics** 1997 Apr 15;41(2):290-2

Structure of the human ARHG locus encoding the Rho/Rac-like RhoG GTPase. Le Gallic L, et al. **Genomics** 1997 May 15;42(1):157-60

Assignment of the dynamin-1 gene (DNM1) to human chromosome 9q34 by fluorescence in situ hybridization and somatic cell hybrid analysis. Newman-Smith ED, et al. **Genomics** 1997 Apr 15;41(2):286-9

Characterization of mutations affecting the Escherichia coli essential GTPase era that suppress two temperature-sensitive dnaG alleles. Britton RA, et al. **J Bacteriol** 1997 Jul;179(14):4575-82

Putative GTPase Gtr1p genetically interacts with the RanGTPase cycle in Saccharomyces cerevisiae. Nakashima N, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2311-8

Upregulation of dynamin II expression during the acquisition of a mature pancreatic acinar cell phenotype. Cook TA, et al. **J Histochem Cytochem** 1996 Dec;44(12):1373-8

Two isoforms of Drosophila dynamin in wild-type and shibire(ts) neural tissue: different subcellular localization and association mechanisms. Gass GV, et al. **J Neurogenet** 1995 Dec;10(3):169-91

Interaction of an adenovirus 14.7-kilodalton protein inhibitor of tumor necrosis factor alpha cytolysis with a new member of the GTPase superfamily of signal transducers. Li Y, et al. **J Virol** 1997 Feb;71(2):1576-82

Genetic mapping of Rab20 on mouse chromosome 8. McMurtrie EB, et al. **Mamm Genome** 1997 Apr;8(4):291-2

Molecular discrimination between Campylobacter jejuni, Campylobacter coli, Campylobacter lari and Campylobacter upsaliensis by polymerase chain reaction based on a novel putative GTPase gene. van Doorn LJ, et al. **Mol Cell Probes** 1997 Jun;11(3):177-85

Isolation and characterization of the krev-1 gene, a novel member of ras superfamily in Neurospora crassa: involvement in sexual cycle progression. Ito S, et al. **Mol Gen Genet** 1997 Jul;255(4):429-37

Molecular cloning and characterization of Drosophila genes encoding small GTPases of the rab and rho families. Sasamura T, et al. **Mol Gen Genet** 1997 May 20; 254(5):486-94

Expression and regulation of the rnc and pdxJ operons of Escherichia coli. Matsunaga J, et al. **Mol Microbiol** 1996 Dec;22(5):977-89

Enhanced apoptosis in the thymus of transgenic mice expressing constitutively activated forms of human Rac2GTPase. Lorès P, et al. **Oncogene** 1997 Jul 31; 15(5):601-5

Complementation of sporulation and motility defects in a prokaryote by a eukaryotic GTPase. Hartzell PL. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9881-6

Regulation of the expression of the tissue transglutaminase gene by DNA methylation. Lu S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4692-7

Sequence analysis of a 14.2 kb fragment of Saccharomyces cerevisiae chromosome XIV that includes the ypt53, tRNALeu and gsr m2 genes and four new open reading frames. Garcia-Cantalejo JM, et al. **Yeast** 1996 May; 12(6):599-608

[Low molecular weight GTPase of the rac family from the bovine retina. Structure of cDNA and its expression in a prokaryotic system] Petrov VM, et al. **Bioorg Khim** 1996 Dec;22(12):883-90 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Immunoreactivities of m-calpain, calpastatin, nitric oxide synthase, myelin basic protein and dynamin II in baker's yeast, wheat germ and lobster tail muscle. Kuo WN, et al. **Cytobios** 1996;87(351):251-63

ISOLATION & PURIFICATION

Human MxB protein, an interferon-alpha-inducible GTPase, contains a nuclear targeting signal and is localized in the heterochromatin region beneath the nuclear envelope. Melén K, et al. **J Biol Chem** 1996 Sep 20;271(38):23478-86

METABOLISM

Studies on the nocodazole-induced GTPase activity of tubulin. Mejillano MR, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):130-8

The nucleolar phosphoprotein P130 is a GTPase/ATPase with intrinsic property to form large complexes triggered by F- and Mg2+. Chen HK, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):370-5

Role of Rho GTPase in the endothelin-1-induced nuclear signaling. Kim JH, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):223-6

RalA interacts directly with the Arf-responsive, PIP2-dependent phospholipase D1. Luo JQ, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):854-9

Dynamin II associates with Grb2 SH3 domain in Ras transformed NIH3T3 cells. Yoon SY, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):539-43

Biochemical characteristics of a rice (Oryza sativa L., IR36) G-protein alpha-subunit expressed in Escherichia coli. Seo HS, et al. **Biochem J** 1997 May 15;324 (Pt 1):273-81

Prenylation of a Rab1B mutant with altered GTPase activity is impaired in cell-free systems but not in intact mammalian cells. Wilson AL, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):1007-14

Individual rate constants for the interaction of Ras proteins with GTPase-activating proteins determined by fluorescence spectroscopy. Ahmadian MR, et al. **Biochemistry** 1997 Apr 15;36(15):4535-41

The core domain of the tissue transglutaminase Gh hydrolyzes GTP and ATP. Iismaa SE, et al. **Biochemistry** 1997 Sep 30;36(39):11655-64

Activation of transducin guanosine triphosphatase by two proteins of the RGS family. Nekrasova ER, et al. **Biochemistry** 1997 Jun 24;36(25):7638-43

Altering the reaction coordinate of the ATP sulfurylase-GTPase reaction. Yang M, et al. **Biochemistry** 1997 Mar 18;36(11):3270-7

Messenger RNA translation in prokaryotes: GTPase centers associated with translational factors. Laalami S, et al. **Biochimie** 1996;78(7):577-89 (192 ref.)

Stochastic simulation of the transducin GTPase cycle. Felber S, et al. **Biophys J** 1996 Dec;71(6):3051-63

Activation of ras oncogenes during hepatocarcinogenesis induced by N-nitrosodiethylamine: possible involvement of PKC and GAP. Choudhury S, et al. **Cancer Lett** 1996 Dec 3;109(1-2):149-54

The GTPase and Rho GAP domains of p190, a tumor suppressor protein that binds the M(r) 120,000 Ras GAP, independently function as anti-Ras tumor suppressors. Wang DZ, et al. **Cancer Res** 1997 Jun 15;57(12):2478-84

Developmentally regulated mitochondrial fusion mediated by a conserved, novel, predicted GTPase. Hales KG, et al. **Cell** 1997 Jul 11;90(1):121-9

A novel Rab5 GDP/GTP exchange factor complexed to Rabaptin-5 links nucleotide exchange to effector recruitment and function. Horiuchi H, et al. **Cell** 1997 Sep 19;90(6):1149-59

Molecular mimicry in development: identification of ste11+ as a substrate and mei3+ as a pseudosubstrate inhibitor of ran1+ kinase [published erratum appears in Cell 1997 Jan 24;88(2):287] Li P, et al. **Cell** 1996 Nov 29;87(5):869-80

Empty site forms of the SRP54 and SR alpha GTPases mediate targeting of ribosome-nascent chain complexes to the endoplasmic reticulum [see comments] Rapiejko PJ, et al. **Cell** 1997 May 30;89(5):703-13. Comment in: Cell 1997 May 30;89(5):673-6.

Retinoic acid and IFN inhibition of cell proliferation is associated with apoptosis in squamous carcinoma cell lines: role of IRF-1 and TGase II-dependent pathways. Giandomenico V, et al. **Cell Growth Differ** 1997 Jan; 8(1):91-100

Role of dynamin in clathrin-coated vesicle formation. Baba T, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:235-42

The ARF GTPases: defining roles in membrane traffic and organelle structure. Donaldson JG, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:229-34 (45 ref.)

Selective membrane recruitment of Rab GTPases. Pfeffer SR, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:221-7 (34 ref.)

Human Ste20 homologue hPAK1 links GTPases to the JNK MAP kinase pathway. Brown JL, et al. **Curr Biol** 1996 May 1;6(5):598-605

A mechanism of Bud1p GTPase action suggested by mutational analysis and immunolocalization. Michelitch M, et al. **Curr Biol** 1996 Apr 1;6(4):446-54

Faciogenital dysplasia protein (FGD1) and Vav, two related proteins required for normal embryonic development, are upstream regulators of Rho GTPases. Olson MF, et al. **Curr Biol** 1996 Dec 1;6(12):1628-33

Vesicle traffic: get your coat! Schimmöller F, et al. **Curr Biol** 1997 Apr 1;7(4):R235-7 (19 ref.)

A new family of G-protein regulators - the RGS proteins. Koelle MR. **Curr Opin Cell Biol** 1997 Apr;9(2):143-7 (35 ref.)

GTPase activating protein activity for Rab4 is enriched in the plasma membrane of 3T3-L1 adipocytes. Possible involvement in the regulation of Rab4 subcellular localization. Bortoluzzi MN, et al. **Diabetologia** 1996 Aug; 39(8):899-906

Rho 1 GTPase activates the (1-3)beta-D-glucan synthase and is involved in Schizosaccharomyces pombe morphogenesis. Arellano M, et al. **EMBO J** 1996 Sep 2; 15(17):4584-91

Specific role for the PH domain of dynamin-1 in the regulation of rapid endocytosis in adrenal chromaffin cells. Artalejo CR, et al. **EMBO J** 1997 Apr 1;16(7):1565-74

Two GTPase isoforms, Ypt31p and Ypt32p, are essential for Golgi function in yeast. Benli M, et al. **EMBO J** 1996 Dec 2;15(23):6460-75

Distinct specificity in the recognition of phosphoinositides by the pleckstrin homology domains of dynamin and Bruton's tyrosine kinase. Salim K, et al. **EMBO J** 1996 Nov 15;15(22):6241-50

The G222D mutation in elongation factor Tu inhibits the codon-induced conformational changes leading to GTPase activation on the ribosome. Vorstenbosch E, et al. **EMBO J** 1996 Dec 2;15(23):6766-74

RIC, a calmodulin-binding Ras-like GTPase. Wes PD, et al. **EMBO J** 1996 Nov 1;15(21):5839-48

Regulation of phosphorylation pathways by p21 GTPases. The p21 Ras-related Rho subfamily and its role in phosphorylation signalling pathways. Lim L, et al. **Eur J Biochem** 1996 Dec 1;242(2):171-85 (123 ref.)

Gx/z is regulated by mu but not delta opioid receptors in the stimulation of the low Km GTPase activity in mouse periaqueductal grey matter. Garzón J, et al. **Eur J Neurosci** 1997 Jun;9(6):1194-200

Phorbol ester blocks the increase of a high affinity GTPase activity induced by delta 2-opioid receptor agonist in the mouse spinal cord. Narita M, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):R1-3

Phosphorylation of dynamin by ERK2 inhibits the dynamin-microtubule interaction. Earnest S, et al. **FEBS Lett** 1996 Oct 28;396(1):62-6

DGAP1, a homologue of rasGTPase activating proteins that controls growth, cytokinesis, and development in Dictyostelium discoideum. Faix J, et al. **FEBS Lett** 1996 Oct 7;394(3):251-7

p160ROCK, a Rho-associated coiled-coil forming protein kinase, works downstream of Rho and induces focal adhesions. Ishizaki T, et al. **FEBS Lett** 1997 Mar 10; 404(2-3):118-24

Role of Rac GTPase in the nuclear signaling by EGF. Kim BC, et al. **FEBS Lett** 1997 Apr 21;407(1):7-12

Essential role of Rac GTPase in hydrogen peroxide-induced activation of c-fos serum response element. Kim JH, et al. **FEBS Lett** 1997 Apr 7;406(1-2):93-6

Clathrin interacts specifically with amphiphysin and is displaced by dynamin. McMahon HT, et al. **FEBS Lett** 1997 Aug 18;413(2):319-22

A recombinant polypeptide model of the second nucleotide-binding fold of the cystic fibrosis transmembrane conductance regulator functions as an active ATPase, GTPase and adenylate kinase. Randak C, et al. **FEBS Lett** 1997 Jun 30;410(2-3):180-6

Deletion of the putative effector region of Era, an essential GTP-binding protein in Escherichia coli, causes a dominant-negative phenotype. Pillutla RC, et al. **FEMS Microbiol Lett** 1996 Sep 15;143(1):47-55

Ubiquitous expression and testis-specific alternative polyadenylation of mRNA for the human Ran GTPase activator RanGAP1. Krebber H, et al. **Gene** 1996 Nov 21; 180(1-2):7-11

The Spg1p GTPase is an essential, dosage-dependent inducer of septum formation in Schizosaccharomyces pombe. Schmidt S, et al. **Genes Dev** 1997 Jun 15;11(12):1519-34

Overexpression and functional analysis of a mitogen-inducible nuclear GTPase activating protein, Spa-1. Nur-e-Kamal MS. **Int J Biochem Cell Biol** 1996 Nov;28(11):1241-7

The SpoIIAA protein of Bacillus subtilis has GTP-binding properties. Najafi SM, et al. **J Bacteriol** 1996 Nov; 178(22):6632-4

Assays for the measurement of tissue transglutaminase (type II) mediated protein crosslinking via epsilon-(gamma-glutamyl) lysine and N',N'-bis (gamma-glutamyl) polyamine linkages using biotin labelled casein. Lilley GR, et al. **J Biochem Biophys Methods** 1997 Feb 1;34(1):31-43

Evidence for a role of Rho-like GTPases and stress-activated protein kinase/c-Jun N-terminal kinase (SAPK/JNK) in transforming growth factor beta-mediated signaling. Atfi

A, et al. **J Biol Chem** 1997 Jan 17;272(3):1429–32

Alpha1–adrenergic receptor signaling via Gh is subtype specific and independent of its transglutaminase activity. Chen S, et al. **J Biol Chem** 1996 Dec 13;271(50):32385–91

Identification of an actin cytoskeletal complex that includes IQGAP and the Cdc42 GTPase. Erickson JW, et al. **J Biol Chem** 1997 Sep 26;272(39):24443–7

Identification of the Rho–binding domain of p160ROCK, a Rho–associated coiled–coil containing protein kinase. Fujisawa K, et al. **J Biol Chem** 1996 Sep 20;271(38):23022–8

Isolation and characterization of a GTPase activating protein specific for the Rab3 subfamily of small G proteins. Fukui K, et al. **J Biol Chem** 1997 Feb 21;272(8):4655–8

A new function of p120–GTPase–activating protein. Prevention of the guanine nucleotide exchange factor–stimulated nucleotide exchange on the active form of Ha–ras p21. Giglione C, et al. **J Biol Chem** 1997 Oct 3;272(40):25128–34

Activation of R–Ras by Ras–guanine nucleotide–releasing factor. Gotoh T, et al. **J Biol Chem** 1997 Jul 25; 272(30):18602–7

The SH3 domain of amphiphysin binds the proline–rich domain of dynamin at a single site that defines a new SH3 binding consensus sequence. Grabs D, et al. **J Biol Chem** 1997 May 16;272(20):13419–25

Analysis of factor XIII substrate specificity using recombinant human factor XIII and tissue transglutaminase chimeras. Hettasch JM, et al. **J Biol Chem** 1997 Oct 3; 272(40):25149–56

A novel RING finger protein, Vps8p, functionally interacts with the small GTPase, Vps21p, to facilitate soluble vacuolar protein localization. Horazdovsky BF, et al. **J Biol Chem** 1996 Dec 27;271(52):33607–15

Alzheimer amyloid protein precursor is localized in nerve terminal preparations to Rab5–containing vesicular organelles distinct from those implicated in the synaptic vesicle pathway. Ikin AF, et al. **J Biol Chem** 1996 Dec 13;271(50):31783–6

Prostaglandin E receptor EP3 subtype induces neurite retraction via small GTPase Rho. Katoh H, et al. **J Biol Chem** 1996 Nov 22;271(47):29780–4

Identification of IQGAP as a putative target for the small GTPases, Cdc42 and Rac1. Kuroda S, et al. **J Biol Chem** 1996 Sep 20;271(38):23363–7

Regulation of dynamin I GTPase activity by G protein betagamma subunits and phosphatidylinositol 4,5–bisphosphate. Lin HC, et al. **J Biol Chem** 1996 Nov 8;271(45):27979–82

Cdc42Hs, but not Rac1, inhibits serum–stimulated cell cycle progression at G1/S through a mechanism requiring p38/RK. Molnár A, et al. **J Biol Chem** 1997 May 16; 272(20):13229–35

Expression of GTP–dependent and GTP–independent tissue–type transglutaminase in cytokine–treated rat brain astrocytes [published erratum appears in J Biol Chem 1997 Mar 14;272(11):7565] Monsonego A, et al. **J Biol Chem** 1997 Feb 7;272(6):3724–32

Rad and Rad–related GTPases interact with calmodulin and calmodulin–dependent protein kinase II. Moyers JS, et al. **J Biol Chem** 1997 May 2;272(18):11832–9

Regulation of transducin GTPase activity by human retinal RGS. Natochin M, et al. **J Biol Chem** 1997 Jul 11; 272(28):17444–9

Role of the basic, proline–rich region of dynamin in Src homology 3 domain binding and endocytosis. Okamoto PM, et al. **J Biol Chem** 1997 Apr 25;272(17):11629–35

A novel GTPase–activating protein for Rho interacts with a PDZ domain of the protein–tyrosine phosphatase PTPL1. Saras J, et al. **J Biol Chem** 1997 Sep 26;272(39):24333–8

Interferon–gamma–dependent nuclear import of Stat1 is mediated by the GTPase activity of Ran/TC4. Sekimoto T, et al. **J Biol Chem** 1996 Dec 6;271(49):31017–20

The inducibly expressed GTPase localizes to the endoplasmic reticulum, independently of GTP binding. Taylor GA, et al. **J Biol Chem** 1997 Apr 18;272(16):10639–45

A Rab GTPase is required for homotypic assembly of the endoplasmic reticulum. Turner MD, et al. **J Biol Chem** 1997 May 23;272(21):13479–83

Binding of mammalian ribosomal protein complex P0.P1.P2 and protein L12 to the GTPase–associated domain of 28 S ribosomal RNA and effect on the accessibility to anti–28 S RNA autoantibody. Uchiumi T, et al. **J Biol Chem** 1997 Feb 7;272(6):3302–8

Interaction of the GTP–binding and GTPase–activating domains of ARD1 involves the effector region of the ADP–ribosylation factor domain. Vitale N, et al. **J Biol Chem** 1997 Feb 14;272(7):3897–904

Role of the small GTPase Rab7 in the late endocytic pathway. Vitelli R, et al. **J Biol Chem** 1997 Feb 14; 272(7):4391–7

Dynamin self–assembly stimulates its GTPase activity. Warnock DE, et al. **J Biol Chem** 1996 Sep 13; 271(37):22310–4

Characterization of the interactions between the small GTPase Cdc42 and its GTPase–activating proteins and putative effectors. Comparison of kinetic properties of Cdc42 binding to the Cdc42–interactive domains. Zhang B, et al. **J Biol Chem** 1997 Aug 29;272(35):21999–2007

A novel Rab9 effector required for endosome–to–TGN transport. Díaz E, et al. **J Cell Biol** 1997 Jul 28; 138(2):283–90

A novel class of RanGTP binding proteins. Görlich D, et al. **J Cell Biol** 1997 Jul 14;138(1):65–80

Two new Ypt GTPases are required for exit from the yeast trans–Golgi compartment. Jedd G, et al. **J Cell Biol** 1997 May 5;137(3):563–80

A novel ubiquitin–like modification modulates the partitioning of the Ran–GTPase–activating protein RanGAP1 between the cytosol and the nuclear pore complex. Matunis MJ, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1457–70

Docking of yeast vacuoles is catalyzed by the Ras–like GTPase Ypt7p after symmetric priming by Sec18p (NSF). Mayer A, et al. **J Cell Biol** 1997 Jan 27;136(2):307–17

Putative GTPase Gtr1p genetically interacts with the RanGTPase cycle in Saccharomyces cerevisiae. Nakashima N, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2311–8

Rho proteins play a critical role in cell migration during the early phase of mucosal restitution. Santos MF, et al. **J Clin Invest** 1997 Jul 1;100(1):216–25

Distinct Ras effector pathways are involved in Fc epsilon R1 regulation of the transcriptional activity of Elk–1 and NFAT in mast cells. Turner H, et al. **J Exp Med** 1997 Jan 6;185(1):43–53

Defective Rho GTPase regulation by IL–1 beta–converting enzyme–mediated cleavage of D4 GDP dissociation inhibitor. Danley DE, et al. **J Immunol** 1996 Jul 15; 157(2):500–3

Alkyl–substituted amino acid amides and analogous di– and triamines: new non–peptide G protein activators. Leschke C, et al. **J Med Chem** 1997 Sep 12;40(19):3130–9

The role of the metal ion in the p21ras catalysed GTP–hydrolysis: Mn2+ versus Mg2+. Schweins T, et al. **J Mol Biol** 1997 Mar 7;266(4):847–56

Calcium binds dynamin I and inhibits its GTPase activity. Liu JP, et al. **J Neurochem** 1996 May;66(5):2074–81

Traffic of dynamin within individual Drosophila synaptic boutons relative to compartment–specific markers. Estes PS, et al. **J Neurosci** 1996 Sep 1;16(17):5443–56

Changes in dynamin and actin mRNA expression in the dorsal column–medial lemniscal system following dorsal column lesion. Riley LA, et al. **J Neurosci Res** 1996 Apr 1;44(1):47–51

ATPase, GTPase, and RNA binding activities associated with the 206–kilodalton protein of turnip yellow mosaic virus. Kadaré G, et al. **J Virol** 1996 Nov;70(11):8169–74

Yeast actin cytoskeleton mutants accumulate a new class of Golgi–derived secretary vesicle. Mulholland J, et al. **Mol Biol Cell** 1997 Aug;8(8):1481–99

Perturbations in the spi1p GTPase cycle of Schizosaccharomyces pombe through its GTPase–activating protein and guanine nucleotide exchange factor components result in similar phenotypic consequences. Matynia A, et al. **Mol Cell Biol** 1996 Nov; 16(11):6352–62

Tissue transglutaminase–dependent posttranslational modification of the retinoblastoma gene product in promonocytic cells undergoing apoptosis. Oliverio S, et al. **Mol Cell Biol** 1997 Oct;17(10):6040–8

Cdc42 regulates anchorage–independent growth and is necessary for Ras transformation. Qiu RG, et al. **Mol Cell Biol** 1997 Jun;17(6):3449–58

The PRK2 kinase is a potential effector target of both Rho and Rac GTPases and regulates actin cytoskeletal organization. Vincent S, et al. **Mol Cell Biol** 1997 Apr; 17(4):2247–56

Ffh and FtsY in a Mycoplasma mycoides signal–recognition particle pathway: SRP RNA and M domain of Ffh are not required for stimulation of GTPase activity in vitro. Macao B, et al. **Mol Microbiol** 1997 May;24(3):523–34

The structure of the GTPase–activating domain from p50rhoGAP. Barrett T, et al. **Nature** 1997 Jan 30; 385(6615):458–61

Phosphotyrosine–dependent activation of Rac–1 GDP/GTP exchange by the vav proto–oncogene product. Crespo P, et al. **Nature** 1997 Jan 9;385(6612):169–72

A protein–making motor protein [news; comment] Cross RA. **Nature** 1997 Jan 2;385(6611):18–9. Comment on: Nature 1997 Jan 2;385(6611):37–41.

C–terminal binding domain of Rho GDP–dissociation inhibitor directs N–terminal inhibitory peptide to GTPases. Gosser YQ, et al. **Nature** 1997 Jun 19;387(6635):814–9

Endosome dynamics regulated by a Rho protein. Murphy C, et al. **Nature** 1996 Dec 5;384(6608):427–32

Hydrolysis of GTP by elongation factor G drives tRNA movement on the ribosome [see comments] Rodnina MV, et al. **Nature** 1997 Jan 2;385(6611):37–41. Comment in: Nature 1997 Jan 2;385(6611):18–9.

Gln 63 of Rho is deamidated by Escherichia coli cytotoxic necrotizing factor–1. Schmidt G, et al. **Nature** 1997 Jun 12;387(6634):725–9

Opioid receptor agonists activate pertussis toxin–sensitive G proteins and inhibit adenylyl cyclase in canine cardiac sarcolemma. Niroomand F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):643–9

Minimal Ras–binding domain of Raf1 can be used as an activation–specific probe for Ras. de Rooij J, et al. **Oncogene** 1997 Feb 6;14(5):623–5

R–Ras is regulated by activators and effectors distinct from those that control Ras function. Huff SY, et al. **Oncogene** 1997 Jan 16;14(2):133–43

Modulation of large conductance Ca2+–activated K+ channel by Galphah (transglutaminase II) in the vascular smooth muscle cell. Lee MY, et al. **Pflugers Arch** 1997 Mar;433(5):671–3

Dynamics of phragmoplastin in living cells during cell plate formation and uncoupling of cell elongation from the plane of cell division. Gu X, et al. **Plant Cell** 1997 Feb;9(2):157–69

An Arabidopsis gene isolated by a novel method for detecting genetic interaction in yeast encodes the GDP dissociation inhibitor of Ara4 GTPase. Ueda T, et al. **Plant Cell** 1996 Nov;8(11):2079–91

Induction of "tissue" transglutaminase in HIV pathogenesis: evidence for high rate of apoptosis of CD4+ T lymphocytes and accessory cells in lymphoid tissues. Amendola A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11057–62

The core domain of a new retina specific RGS protein stimulates the GTPase activity of transducin in vitro. Faurobert E, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2945–50

Conditional activation defect of a human Gsalpha mutant. Iiri T, et al. **Proc Natl Acad Sci U S A** 1997 May 27; 94(11):5656–61

Gsalpha contains an unidentified covalent modification that increases its affinity for adenylyl cyclase. Kleuss C, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6116–20

A calcineurin homologous protein inhibits GTPase–stimulated Na–H exchange. Lin X, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12631–6

Two active states of the Ras–related Bud1/Rsr1 protein bind to different effectors to determine yeast cell polarity. Park HO, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4463–8

Phospholipase D: regulation by GTPases and protein kinase C and physiological relevance. Cockcroft S. **Prog Lipid Res** 1996 Dec;35(4):345–70 (270 ref.)

Site–directed mutagenesis of Arg58 and Asp86 of elongation factor Tu from Escherichia coli: effects on the GTPase reaction and aminoacyl–tRNA binding. Knudsen CR, et al. **Protein Eng** 1995 Dec;8(12):1267–73

Apoptosis regulation by Raf, Bcl–2, and R–Ras. Troppmair J, et al. **Recent Results Cancer Res** 1997;143:245–9 (16 ref.)

Whose finger is on the switch? [comment] Goldfarb DS. **Science** 1997 Jun 20;276(5320):1814–6. Comment on: Science 1997 Jun 20;276(5320):1842–4. Comment on: Science 1997 Jun 20;276(5320):1845–8.

Inhibition of Ran guanosine triphosphatase–dependent nuclear transport by the matrix protein of vesicular stomatitis virus [see comments] Her LS, et al. **Science** 1997 Jun 20;276(5320):1845–8. Comment in: Science 1997 Jun 20;276(5320):1814–6.

There are GAPS and there are GAPS. Iyengar R. **Science** 1997 Jan 3;275(5296):42–3

t–SNARE activation through transient interaction with a rab–like guanosine triphosphatase [see comments] Lupashin VV, et al. **Science** 1997 May 23;276(5316):1255–8. Comment in: Science 1997 May 23;276(5316):1212–3.

Requirement of guanosine triphosphate–bound ran for signal–mediated nuclear protein export [see comments] Richards SA, et al. **Science** 1997 Jun 20;276(5320):1842–4 . Comment in: Science 1997 Jun 20;276(5320):1814–6.

Synaptic vesicle endocytosis impaired by disruption of dynamin–SH3 domain interactions. Shupliakov O, et al. **Science** 1997 Apr 11;276(5310):259–63

PHARMACOLOGY

R–Ras can activate the phosphoinositide 3–kinase but not the MAP kinase arm of the Ras effector pathways [published erratum appears in Curr Biol 1997 Mar 1;7(3):197] Marte BM, et al. **Curr Biol** 1997 Jan 1;7(1):63–70

PHYSIOLOGY

Rac G, a small GTPase, regulates capping of surface receptors in Entamoeba histolytica. Guillen N, et al. **Arch Med Res** 1997;28 Spec No:129–31

Nuclear signalling by rac GTPase: essential role of phospholipase A2. Kim BC, et al. **Biochem J** 1997 Sep 1; 326 (Pt 2):333–7

Dynamin GTPase, a force–generating molecular switch. Warnock DE, et al. **Bioessays** 1996 Nov;18(11):885–93 (55 ref.)

Regulation of the actin cytoskeleton, integrins and cell growth by the Rho family of small GTPases. Hotchin NA, et al. **Cancer Surv** 1996;27:311–22 (73 ref.)

A requirement for Rho and Cdc42 during cytokinesis in Xenopus embryos. Drechsel DN, et al. **Curr Biol** 1997 Jan 1;7(1):12–23

Rho GTPases and leukocyte cytoskeletal regulation. Dharmawardhane S, et al. **Curr Opin Hematol** 1997 Jan; 4(1):12–8 (83 ref.)

In search of a function for the Ras–like GTPase Rap1. Bos JL, et al. **FEBS Lett** 1997 Jun 23;410(1):59–62 (31 ref.)

Rho GTPases and signaling networks. Van Aelst L, et al. **Genes Dev** 1997 Sep 15;11(18):2295–322 (295 ref.)

Characterization of membrane–associated Pseudomonas aeruginosa Ras–like protein Pra, a GTP–binding protein that forms complexes with truncated nucleoside diphosphate kinase and pyruvate kinase to modulate GTP synthesis. Chopade BA, et al. **J Bacteriol** 1997 Apr; 179(7):2181–8

The small GTPase Rho: cellular functions and signal transduction. Narumiya S. **J Biochem (Tokyo)** 1996 Aug; 120(2):215–28 (117 ref.)

GTP PHOSPHOHYDROLASE

Decreased endosomal delivery of major histocompatibility complex class II-invariant chain complexes in dynamin-deficient cells. Wang K, et al. **J Biol Chem** 1997 Jul 4;272(27):17055-60

Ran, a GTPase involved in nuclear processes: its regulators and effectors. Avis JM, et al. **J Cell Sci** 1996 Oct;109 (Pt 10):2423-7 (56 ref.)

Role of GTPase activity of murine Mx1 protein in nuclear localization and anti-influenza virus activity. Toyoda T, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1867-9

The superfamily of Ras-related GTPases. McCormick F. **Jpn J Cancer Res** 1997 Jul;88(7):inside front cover

A role for a Rab4-like GTPase in endocytosis and in regulation of contractile vacuole structure and function in Dictyostelium discoideum. Bush J, et al. **Mol Biol Cell** 1996 Oct;7(10):1623-38

Dynamin, endocytosis and intracellular signalling (review). McClure SJ, et al. **Mol Membr Biol** 1996 Oct-Dec; 13(4):189-215 (223 ref.)

The role of RhoA in tissue polarity and Frizzled signalling. Strutt DI, et al. **Nature** 1997 May 15;387(6630):292-5

Small GTPases in axon outgrowth. Luo L, et al. **Perspect Dev Neurobiol** 1996;4(2-3):199-204 (25 ref.)

A dynamin GTPase mutation causes a rapid and reversible temperature-inducible locomotion defect in C. elegans. Clark SG, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10438-43

The dynamins: redundant or distinct functions for an expanding family of related GTPases? Urrutia R, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):377-84 (69 ref.)

Throttles and dampers: controlling the engine of membrane fusion [see comments] Rothman JE, et al. **Science** 1997 May 23;276(5316):1212-3. Comment in: Science 1997 May 23;276(5316):1255-8.

[Various physiological functions suggested for protein cross-linking enzyme, transglutaminase] Ikura K. **Seikagaku** 1997 Jun;69(6):416-20 (23 ref.) **(Jpn)**

[Regulation of cytoskeleton and cell adhesion by small GTPases] Kaibuchi K. **Seikagaku** 1997 Jan;69(1):16-29 (46 ref.) **(Jpn)**

ULTRASTRUCTURE

Crystallographic studies of elongation factor G. Liljas A, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11-12):1209-16 (35 ref.)

GTP-REGULATORY PROTEINS see **GTP-BINDING PROTEINS**

GTP RING-OPENING ENZYME see **GTP CYCLOHYDROLASE**

GTPASE see **GTP PHOSPHOHYDROLASE**

GUAIAC

DIAGNOSTIC USE

Immunological testing for occult blood in patients with acute infectious diarrhea. Can it improve the specificity of the guaiac test? Beltinger J, et al. **Dig Dis Sci** 1997 Feb; 42(2):366-71

METABOLISM

Incidence of stool guaiac conversion following extracorporeal shock wave lithotripsy. Bauer JJ, et al. **Urology** 1997 Aug;50(2):192-4

GUAIACOL

ANALOGS & DERIVATIVES

The effects of tetrachloroguaiacol on the growth, survival, and development of the fathead minnow, Pimephales promelas. Woodland CL, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):394-8

Two new aromatic constitutents from the rootwood of Aeschynomene mimosifolia. Fullas F, et al. **J Nat Prod** 1996 Feb;59(2):190-2

Similarities and differences in the currents activated by capsaicin, piperine, and zingerone in rat trigeminal ganglion cells. Liu L, et al. **J Neurophysiol** 1996 Sep;76(3):1858-69

Psychophysical responses to single and multiple presentations of the oral irritant zingerone: relationship to frequency of chili consumption. Prescott J, et al. **Physiol Behav** 1996 Aug;60(2):617-24

Desensitization to oral zingerone irritation: effects of stimulus parameters. Prescott J, et al. **Physiol Behav** 1996 Dec; 60(6):1473-80

ANTAGONISTS & INHIBITORS

The selective capsaicin antagonist capsazepine abolishes the antinociceptive action of eugenol and guaiacol. Ohkubo T, et al. **J Dent Res** 1997 Apr;76(4):848-51

CHEMISTRY

Identification of the colored guaiacol oxidation product produced by peroxidases. Doerge DR, et al. **Anal Biochem** 1997 Jul 15;250(1):10-7

TOXICITY

The effects of tetrachloroguaiacol on the growth, survival, and development of the fathead minnow, Pimephales promelas. Woodland CL, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):394-8

GUAIACOL GLYCERYL ETHER

ANALYSIS

Simultaneous assay of phenylpropanolamine hydrochloride, caffeine, paracetamol, glycerylguaiacolate and chlorpheniramine maleate in Silabat tablet using HPLC with diode array detection. Indrayanto G, et al. **J Pharm Biomed Anal** 1995 Nov;13(12):1555-59

THERAPEUTIC USE

Evaluation of antitussive agents in man. Parvez L, et al. **Pulm Pharmacol** 1996 Oct-Dec;9(5-6):299-308

GUAIFENESIN see **GUAIACOL GLYCERYL ETHER**

GUAIPHENESIN see **GUAIACOL GLYCERYL ETHER**

GUAIPHENESIN CARBAMATE see **METHOCARBAMOL**

GUAMA GROUP VIRUSES see **BUNYAVIRUS**

GUAMA VIRUS see **BUNYAVIRUS**

GUANABENZ

ANALOGS & DERIVATIVES

Microsomal catalyzed N-hydroxylation of guanabenz and reduction of the N-hydroxylated metabolite: characterization of the two reactions and genotoxic potential of guanoxabenz. Clement B, et al. **Chem Res Toxicol** 1996 Jun;9(4):682-8

METABOLISM

Microsomal catalyzed N-hydroxylation of guanabenz and reduction of the N-hydroxylated metabolite: characterization of the two reactions and genotoxic potential of guanoxabenz. Clement B, et al. **Chem Res Toxicol** 1996 Jun;9(4):682-8

PHARMACOLOGY

Inhibition of sympathetic noradrenergic transmission by guanabenz and guanethidine in rat isolated mesenteric artery: involvement of neuronal potassium channels. Fabiani ME, et al. **Pharmacol Res** 1996 Mar;33(3):171-80

GUANACOS see **CAMELIDS, NEW WORLD**

GUANASE see **GUANINE DEAMINASE**

GUANETHIDINE

Treatment of algodystrophy using intravenous guanethidine regional block. Jacquemoud G, et al. **Ann Chir Main** 1982; 1(1):57-64 (16 ref.) **(Eng, Fre)**

ANALOGS & DERIVATIVES

Synthesis and pharmacology of alkanediguanidinium compounds that block the neuronal nicotinic acetylcholine receptor. Villarroya M, et al. **Bioorg Med Chem** 1996 Aug; 4(8):1177-83

Action of new organometallic complexes against Leishmania donovani. Mesa-Valle CM, et al. **J Antimicrob Chemother** 1997 Jul;40(1):47-57

PHARMACOLOGY

Effects of vasodilators guanethidine, nicardipine, nitroglycerin, and prostaglandin E1 on primary afferent nociceptors in humans. Mashimo T, et al. **J Clin Pharmacol** 1997 Apr;37(4):330-5

Inhibition of sympathetic noradrenergic transmission by guanabenz and guanethidine in rat isolated mesenteric artery: involvement of neuronal potassium channels. Fabiani ME, et al. **Pharmacol Res** 1996 Mar;33(3):171-80

THERAPEUTIC USE

Intravenous guanethidine in patients with reflex sympathetic dystrophy [see comments] Kaplan R, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1216-22. Comment in: Acta Anaesthesiol Scand 1996 Nov;40(10):1171-2.

Reflex sympathetic dystrophy treated with guanethidine. Time for a change of name and strategy [editorial; comment] Valentin N. **Acta Anaesthesiol Scand** 1996 Nov; 40(10):1171-2. Comment on: Acta Anaesthesiol Scand 1996 Nov;40(10):1216-22.

Mueller's muscle: to relax or to incise. Haddad HM. **Metab Pediatr Syst Ophthalmol** 1995;18(1-4):15-8

GUANFACINE

DIAGNOSTIC USE

[Sensitivity of the clonidine and guanfacine tests (alpha-2-adrenergic agonists) as pharmacologic stimulants of growth hormone. Effects on plasma cortisol] Durá Travé T, et al. **An Esp Pediatr** 1996 Dec;45(6):575-8 (Eng. Abstr.) **(Spa)**

PHARMACOLOGY

Alpha-2a/d adrenoceptor subtype stimulation by guanfacine increases osmolar clearance. Intengan HD, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):48-53

Medetomidine, atipamezole, and guanfacine in delayed response performance of aged monkeys. Rämä P, et al. **Pharmacol Biochem Behav** 1996 Nov;55(3):415-22

[The potential antinarcotic effects of guanfacine] Marusov IV, et al. **Eksp Klin Farmakol** 1996 May-Jun;59(3):24-7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Guanfacine use in children with attention deficit hyperactivity disorder. Cohn LM, et al. **Ann Pharmacother** 1997 Jul-Aug;31(7-8):918-9

Cardiovascular parameters of heroin-withdrawn addicts treated with guanfacine. Rubio G, et al. **Methods Find Exp Clin Pharmacol** 1997 Apr;19(3):189-92

[Analgetic effect of guanfacine in postoperative period] Strashnov VI, et al. **Anesteziol Reanimatol** 1996 Jul-Aug; (4):43-4 **(Rus)**

[The treatment of hypertension patients with Estulic] Baliakina EV, et al. **Ter Arkh** 1996;68(12):57-60 (Eng. Abstr.) **(Rus)**

TOXICITY

[The effect of guanfacine on the background and nociceptive stimulation-induced activity of spinal cord neurons in rats] Ivanov VE. **Eksp Klin Farmakol** 1997 May-Jun;60(3):12-5 (Eng. Abstr.) **(Rus)**

GUANIDINES

DNAzol: a reagent for the rapid isolation of genomic DNA. Chomczynski P, et al. **Biotechniques** 1997 Mar;22(3):550-3

Modification of the acid guanidinium thiocyanate-phenol-chloroform method for nuclear RNA isolation. Vareli K, et al. **Biotechniques** 1996 Aug; 21(2):236-7

Unfolding and refolding of the N-terminal fragments of staphylococcal nuclease R in guanidine hydrochloride. Zhou B, et al. **J Biochem (Tokyo)** 1996 Nov;120(5):881-8

Nucleotide 1376 G-->T mutation in G6PD-deficient Chinese in Malaysia. Ainoon O, et al. **Malays J Pathol** 1995 Dec;17(2):61-5

Gene transfer by guanidinium-cholesterol cationic lipids into airway epithelial cells in vitro and in vivo. Oudrhiri N, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1651-6

ADMINISTRATION & DOSAGE

Induction of specific tolerance by 15-deoxyspergualin (DOS) treatment after rat skin and kidney transplantation in rats. Analysis of effectivity of various protocols of DOS application. Waaga AM, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2-3):143-53

Effect of the inducible nitric oxide synthase inhibitors aminoguanidine and L-N6-(1-iminoethyl)lysine on zymosan-induced plasma extravasation in rat skin. Ridger VC, et al. **J Immunol** 1997 Jul 1;159(1):383-90

Low-dose guanidine and pyridostigmine: relatively safe and effective long-term symptomatic therapy in Lambert-Eaton myasthenic syndrome. Oh SJ, et al. **Muscle Nerve** 1997 Sep;20(9):1146-52

Effect of oral administration of protease inhibitor on pancreatic exocrine function in WBN/Kob rats with chronic pancreatitis. Sugiyama M, et al. **Pancreas** 1996 Jul; 13(1):71-9

Sensitization interval and administration method alter the effect of 15-deoxyspergualin on heart transplantation in sensitized recipient rats. Ueda H, et al. **Transpl Int** 1996; 9(6):551-6

[Intermittent administration of 15-deoxyspergualin for acute on chronic rejection after renal transplantation] Kawamoto S, et al. **Hinyokika Kiyo** 1996 Dec;42(12):931-5 (Eng. Abstr.) **(Jpn)**

[Experimental study of the effectiveness of immunosuppression therapy using FK506 and 15-deoxyspergualin in concordant xenotransplantation] Maeda T. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun; 45(6):841-5 (Eng. Abstr.) **(Jpn)**

[Marked improvement of "severe acute pancreatitis" with continuous administration of protease inhibitor: nafamostat mesilate (Futhan) via intraarterial infusion in a case] Kawasaki K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):588-93 **(Jpn)**

[A case of pancreatic pleural effusion and ascites treated successfully with conservative measures including octreotide and nafamostat mesilate] Miyasaka Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):937-41 **(Jpn)**

ADVERSE EFFECTS

Clinically significant drug interactions with new immunosuppressive agents. Mignat C. **Drug Saf** 1997 Apr; 16(4):267–78 (62 ref.)

Additional mechanisms of nafamostat mesilate–associated hyperkalaemia. Ookawara S, et al. **Eur J Clin Pharmacol** 1996;51(2):149–51

Anaphylactoid reaction induced by nafamostat mesilate in a hemodialysis patient [letter] Maruyama H, et al. **Nephron** 1996;74(2):468–9

ANALYSIS

Distribution of a synthetic protease inhibitor in rat pancreatic acini after supramaximal secretagogue stimulation. Otani T, et al. **Pancreas** 1997 Mar;14(2):142–9

ANTAGONISTS & INHIBITORS

Phentolamine precludes inhibitory effect of the K+ channel opener pinacidil on insulin release. Links TP, et al. **Horm Metab Res** 1996 Jan;28(1):20–2

BLOOD

Guanidino compounds in serum and urine of nondialyzed patients with chronic renal insufficiency. Marescau B, et al. **Metabolism** 1997 Sep;46(9):1024–31

Guanidino compounds in guanidinoacetate methyltransferase deficiency, a new inborn error of creatine synthesis. Stöckler S, et al. **Metabolism** 1997 Oct;46(10):1189–93

Serum creatine, creatinine, and other guanidino compounds in patients with thyroid dysfunction. Verhelst J, et al. **Metabolism** 1997 Sep;46(9):1063–7

CHEMICAL SYNTHESIS

New NO–donors with antithrombotic and vasodilating activities, Part 16. 3–Amino–1,2,4–oxadiazol–5–ones as prodrugs for hydroxyguanidines. Rehse K, et al. **Arch Pharm (Weinheim)** 1996 Dec;329(12):535–40

Dichloroaromatic phosphoguanidines are potent inhibitors but very poor substrates for cytosolic creatine kinase. Min KL, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):49–56

The inhibitory effects of mercaptoalkylguanidines on cyclo–oxygenase activity. Zingarelli B, et al. **Br J Pharmacol** 1997 Feb;120(3):357–66

Synthesis and structure–activity relationships of novel phenylcyanoguanidine derivatives as potassium channel openers. Yoshiizumi K, et al. **Chem Pharm Bull (Tokyo)** 1996 Nov;44(11):2042–50

Anti–inflammatory and analgesic activities of 1–[2–(substituted benzothiazole)]–1,3–diethyl–4–aryl guanidines [letter] Naik PR, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):189–90

Synthesis and cytotoxic evaluation of substituted sulfonyl–N–hydroxyguanidine derivatives as potential antitumor agents. Chern JW, et al. **J Med Chem** 1997 Jul 4;40(14):2276–86

Synthesis and preliminary evaluation of para– and meta–[18F]fluorobenzylguanidine. Garg PK, et al. **Nucl Med Biol** 1994 Jan;21(1):97–103

Preparation and pharmacological characterization of [76Br]–meta–bromobenzylguanidine ([76Br]MBBG). Loc'h C, et al. **Nucl Med Biol** 1994 Jan;21(1):49–55

CHEMISTRY

Fidelity of binding of the guanidinium nucleic acid (DNG) d(Tg)4–T–azido with short strand DNA oligomers (A5G3A5, GA4G3A4G, G2A3G3A3G2, G2A2G5A2G2). A kinetic and thermodynamic study. Blaskó A, et al. **Biochemistry** 1997 Jun 24;36(25):7821–31

Guanidine hydrochloride–induced denaturation and refolding of transthyretin exhibits a marked hysteresis: equilibria with high kinetic barriers. Lai Z, et al. **Biochemistry** 1997 Aug 19;36(33):10230–9

Calorimetrically–derived parameters for protein interactions with urea and guanidine–HCl are not consistent with denaturant m values. DeKoster GT, et al. **Biophys Chem** 1997 Feb 28;64(1–3):59–68

Crystal structures of thrombin with thiazole–containing inhibitors: probes of the S1' binding site. Matthews JH, et al. **Biophys J** 1996 Nov;71(5):2830–9

Chemical characterization and comparative cellular effects of meta–iodobenzyl guanidine and benzyl guanidine. Van den Berg JD, et al. **Cancer Chemother Pharmacol** 1997; 40(2):131–7

Synthesis and tryptic hydrolysis of p–guanidinophenyl esters derived from amino acids and peptides. Sekizaki H, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1577–9

Trypsin–catalyzed peptide synthesis and various p–guanidinophenyl esters as acyl donors. Sekizaki H, et al. **Chem Pharm Bull (Tokyo)** 1996 Aug;44(8):1585–7

Synthesis of guanidinosuccinate from argininosuccinate and reactive oxygen in vitro. Aoyagi K, et al. **Enzyme Protein** 1996;49(4):199–204

Preferential interaction of denaturants with rice bran lipase. Rajeshwara AN, et al. **Int J Biol Macromol** 1996 Jul; 19(1):1–7

Gel formation from the type IV collagen isolated from bovine lens capsule in guanidine–HCl and dithiothreitol. Muraoka M, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):167–72

Rheological studies on the solubilization by the surfactant SDS of complexes between three acidic polysaccharides and an organic base chloride. Roig MG, et al. **J Biomater Sci Polym Ed** 1997;8(7):493–516

Amplification of Guthrie card DNA: effect of guanidine thiocyanate on binding of natural whole blood PCR inhibitors. Makowski GS, et al. **J Clin Lab Anal** 1997; 11(2):87–93

Potent and selective thrombin inhibitors incorporating the constrained arginine mimic l–3–piperidyl(N–guanidino)alanine at P1. Levy OE, et al. **J Med Chem** 1996 Nov 8;39(23):4527–30

Natural guanidine derivatives. Berlinck RG. **Nat Prod Rep** 1996 Oct;13(5):377–409 (265 ref.)

Folding and conformational studies on SCR1–3 domains of human complement receptor 1. Clark NS, et al. **Protein Eng** 1996 Oct;9(10):877–84

RhNGF slow unfolding is not due to proline isomerization: possibility of a cystine knot loop–threading mechanism. De Young LR, et al. **Protein Sci** 1996 Aug;5(8):1554–66

The effect of denaturants on protein structure. Dunbar J, et al. **Protein Sci** 1997 Aug;6(8):1727–33

DIAGNOSTIC USE

Para–[18F]fluorobenzylguanidine kinetics in a canine coronary artery occlusion model. Berry CR, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):119–29

Uptake and retention kinetics of para–fluorine–18–fluorobenzylguanidine in isolated rat heart. Berry CR, et al. **J Nucl Med** 1996 Dec;37(12):2011–6

76Br–MBBG, a PET radiotracer to investigate the norepinephrine neurological and vesicular transproters in the heart. Maziere B, et al. **Nucl Med Biol** 1995 Nov; 22(8):1049–52

IMMUNOLOGY

Molecular probes for sweeteners: immunorecognition of superpotent guanidinium compounds. Carpenter R, et al. **Hybridoma** 1996 Feb;15(1):17–21

METABOLISM

Effect of endotoxemia on plasma and tissue levels of nitric oxide metabolites and guanidino compounds. Deshmukh DR, et al. **Arch Physiol Biochem** 1997 Feb;105(1):32–7

Using guanidinium groups for the recognition of RNA and as catalysts for the hydrolysis of RNA. Perreault DM, et al. **Bioorg Med Chem** 1997 Jun;5(6):1209–20

Synthesis of guanidinosuccinate from argininosuccinate and reactive oxygen in vitro. Aoyagi K, et al. **Enzyme Protein** 1996;49(4):199–204

Role of reactive oxygen and argininosuccinate in guanidinosuccinate synthesis in isolated rat hepatocytes. Aoyagi K, et al. **Enzyme Protein** 1996;49(4):205–11

Comparison of binding parameters of sigma 1 and sigma 2 binding sites in rat and guinea pig brain membranes: novel subtype–selective trishomocubanes. Nguyen VH, et al. **Eur J Pharmacol** 1996 Sep 12;311(2–3):233–40

[3H]1,3–di(2–tolyl) guanidine binds to a sigma 2 receptor on Jurkat cell membranes, but sigma compounds fail to influence immunomodulatory events in human peripheral blood lymphocytes. DeHaven–Hudkins DL, et al. **Immunopharmacology** 1996 Oct;35(1):27–39

Tissue and species variation in the vascular receptor binding of 3H–P1075, a potent KATP opener vasodilator. Higdon NR, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):255–60

Renal handling of guanidino compounds in rat and rabbit. Levillain O, et al. **J Physiol (Lond)** 1997 Mar 1;499 (Pt 2):561–70

Nucleotide regulation and characteristics of potassium channel opener binding to skeletal muscle membranes. Dickinson KE, et al. **Mol Pharmacol** 1997 Sep;52(3):473–81

Binding of [3H]–P1075, an opener of ATP–sensitive K+ channels, to rat glomerular preparations. Metzger F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):452–9

Inhibition of 5–HT3 receptor function by imidazolines in mouse neuroblastoma cells: potential involvement of sigma 2 binding sites. Molderings GJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep; 354(3):245–52

A series of novel imidazoline I2–receptor selective Schiff bases of 1–(benzylidenamino)–3,3–dimethylguanidine. Wikberg JE, et al. **Neurochem Int** 1997 Jan;30(1):95–9

Arginine–related guanidino compounds and nitric oxide synthase in the brain of ornithine transcarbamylase deficient spf mutant mouse: effect of metabolic arginine deficiency. Ratnakumari L, et al. **Neurosci Lett** 1996 Sep 13; 215(3):153–6

[3H]1,3–di(2–tolyl)guanidine and [3H](+)pentazocine binding sites in the rat brain: autoradiographic visualization of the putative sigma1 and sigma2 receptor subtypes. Bouchard P, et al. **Neuroscience** 1997 Jan;76(2):467–77

Guanidine transport in a human choriocarcinoma cell line (JAR). Zevin S, et al. **Pharm Res** 1997 Apr;14(4):401–5

[Effect of furosemide on transperitoneal transport of guanidine derivatives: in vitro studies] Czyżewska K, et al. **Przegl Lek** 1996;53(12):854–7 (Eng. Abstr.) **(Pol)**

PHARMACOKINETICS

3–[211At]astato–4–fluorobenzylguanidine: a potential therapeutic agent with prolonged retention by neuroblastoma cells. Vaidyanathan G, et al. **Br J Cancer** 1997;76(2):226–33

Effects of prolonged infusions of the NMDA antagonist aptiganel hydrochloride (CNS 1102) in normal volunteers. Muir KW, et al. **Clin Neuropharmacol** 1997 Aug; 20(4):311–21

Pharmacokinetics of aminoguanidine administration and effects on the diabetes frequency in nonobese diabetic mice. Bowman MA, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):790–4

Pharmacokinetics and pharmacodynamics of 15–deoxyspergualin in a canine renal allograft model of local immunosuppression. Gruber SA, et al. **J Surg Res** 1997 Aug;71(2):137–44

The bioavailability of febantel in dehydrated camels. Ben–Zvi Z, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):288–94

Plasma analysis and pharmacokinetics of zaltidine, an H2–antagonist, in cattle after intravenous, intramuscular, subcutaneous, and oral administration. Hunter RP, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):326–8

Accumulation of simple organic cations correlates with differential cytotoxicity in multidrug–resistant and –sensitive human and rodent cells. Lampidis TJ, et al. **Leukemia** 1997 Jul;11(7):1156–9

Evaluation of meta–[211At]astatobenzylguanidine in an athymic mouse human neuroblastoma xenograft model. Vaidyanathan G, et al. **Nucl Med Biol** 1996 Aug; 23(6):851–6

Characterization of guanidine transport in human renal brush border membranes. Chun JK, et al. **Pharm Res** 1997 Jul; 14(7):936–41

Disposition of netobimin, albendazole, and its metabolites in the pregnant rat: developmental toxicity. Cristòfol C, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):56–61

PHARMACOLOGY

Cathepsin B in the growth of colorectal cancer: suppressive effect of leupeptin on the growth of DMH–induced rat colon neoplasm. Satoh Y, et al. **Acta Med Okayama** 1996 Dec;50(6):299–303

Inhibition of contractile responses of human myometrium and intramyometrial arteries by potassium channel openers. Kostrzewska A, et al. **Acta Obstet Gynecol Scand** 1996 Nov; 75(10):886–91

Effect of restacorin on the early and delayed after depolarization in dog Purkinje fibres. Krassói I, et al. **Acta Physiol Hung** 1996;84(3):299–300

Comparison of the effects of restacorin and flecainide on various cardiac transmembrane potassium currents. Németh M, et al. **Acta Physiol Hung** 1996;84(3):317–8

Comparative study of the circulatory effects of aminoguanidine and N–nitro–L–arginine in hyperdynamic endotoxemia. Tárnoky K, et al. **Acta Physiol Hung** 1996; 84(2):157–70

The effect of chronic nitric oxide synthesis inhibition on blood pressure and angiotensin II responsiveness in the pregnant rat. Lubarsky SL, et al. **Am J Obstet Gynecol** 1997 May;176(5):1069–76

Effects of pinacidil on K+ channels in human coronary artery vascular smooth muscle cells. Bychkov R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C161–71

Effects of inhibition of nitric oxide synthase by aminoguanidine in acute endotoxemia. Hock CE, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H843–50

In vivo brain phosphocreatine and ATP regulation in mice fed a creatine analog. Holtzman D, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1567–77

Creatine depletion elicits structural, biochemical, and physiological adaptations in rat costal diaphragm. Levine S, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1480–6

Creatine analogue beta–guanidinopropionic acid alters skeletal muscle AMP deaminase activity. Tullson PC, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C76–85

Effect of nafamostat mesilate on pulmonary vascular injury induced by lipopolysaccharide in rats. Uchiba M, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):711–8

Effects of specific sodium/hydrogen exchange inhibitor during cardioplegic arrest. Choy IO, et al. **Ann Thorac Surg** 1997 Jul;64(1):94–9

Induction of specific tolerance by 15–deoxyspergualin (DOS) treatment after rat skin and kidney transplantation in rats. Analysis of effectivity of various protocols of DOS application. Waaga AM, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2–3):143–53

In vitro analysis of the mode of action of the immuno–suppressive drug 15–deoxyspergualin. Waaga AM, et al. **Arch Immunol Ther Exp (Warsz)** 1996; 44(2–3):155–63

An aldose reductase inhibitor and aminoguanidine prevent vascular endothelial growth factor expression in rats with long–term galactosemia. Frank RN, et al. **Arch Ophthalmol** 1997 Aug;115(8):1036–47

Inhibition of nitric oxide with aminoguanidine reduces bacterial translocation after endotoxin challenge in vivo. Sorrells DL, et al. **Arch Surg** 1996 Nov;131(11):1155–63

15–Deoxyspergualin: a newly developed immunosuppressive agent and its mechanism of action and clinical effect: a review. Japan Collaborative Transplant Study Group for NKT–01. Amemiya H. **Artif Organs** 1996 Aug;20(8):832–5 (21 ref.)

Effects of the novel histamine H2–receptor antagonist (+/–)–(E)–1–[2–hydroxy–2–(4–hydroxyphenyl)ethyl]–3–

[2-[[[5-(methylamino)methyl-2-furyl]methyl]thio]ethyl]-2-(methylsulfonyl) guanidine on gastric secretion and gastroduodenal ulcers in rats. Amagase K, et al. **Arzneimittelforschung** 1996 Feb;46(2):177-84

Effect of the histamine H2-receptor antagonist (+/-)-(E)-1-[2-hydroxy-2-(4-hydroxyphenyl)ethyl]-3'-[2-[[[5-methylamino) methyl-2-furyl] methyl]thio]ethyl]-2"-(methylsulfonyl)guanidine on acute gastric mucosal injury in rats and its free-radical scavenging activities. Naito Y, et al. **Arzneimittelforschung** 1997 Jul;47(7):845-8

Activation of Na+/H+ exchanger is not involved in the PDGF-BB-induced DNA-synthesis in vascular smooth muscle cells. Sachinidis A, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):468-72

Dissociation and unfolding of the pyruvate dehydrogenase complex by guanidinium chloride. West SM, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):1025-9

Denaturation of uridine phosphorylase from Escherichia coli K-12 by guanidine hydrochloride. Kurganov BI, et al. **Biochem Mol Biol Int** 1997 May;41(6):1191-9

Guanidino compounds generate reactive oxygen species. Mori A, et al. **Biochem Mol Biol Int** 1996 Sep;40(1):135-43

Chemical rescue by guanidine derivatives of an arginine-substituted site-directed mutant of Escherichia coli ornithine transcarbamylase. Rynkiewicz MJ, et al. **Biochemistry** 1996 Dec 17;35(50):16174-9

Denaturation by guanidinium chloride of dimeric MM-creatine kinase and its proteinase K-nicked form: evidence for a multiple-step process. Clottes E, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):37-46

Direct electrochemical evidence for an equilibrium intermediate in the guanidine-induced unfolding of cytochrome c. Ferri T, et al. **Biochim Biophys Acta** 1996 Nov 14;1298(1):102-8

Influence of advanced glycation end-products and AGE-inhibitors on nucleation-dependent polymerization of beta-amyloid peptide. Münch G, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):17-29

Recipient humoral immunity against leukoreduced allogeneic platelets is suppressed by aminoguanidine, a selective inhibitor of inducible nitric oxide synthase. Bang A, et al. **Blood** 1996 Oct 15;88(8):2959-66

Effect of deoxyspergualin on graft-versus-host disease and graft- versus-leukemia in mice. Weiss L, et al. **Bone Marrow Transplant** 1996 May;17(5):789-92

Inhibition by P1075 and pinacidil of a calcium-independent chloride conductance in conditionally-immortal renal glomerular mesangial cells. Barber RD, et al. **Br J Pharmacol** 1996 Oct;119(4):772-8

Aminoguanidine--effects on endoneurial vasoactive nitric oxide and on motor nerve conduction velocity in control and streptozotocin-diabetic rats. Dewhurst M, et al. **Br J Pharmacol** 1997 Feb;120(4):593-8

Influence of aminoguanidine and the endothelin antagonist, SB 209670, on the regional haemodynamic effects of endotoxaemia in conscious rats. Gardiner SM, et al. **Br J Pharmacol** 1996 Aug;118(7):1822-8

Evaluation of BTS 67 582, a novel antidiabetic agent, in normal and diabetic rats. Jones RB, et al. **Br J Pharmacol** 1997 Mar;120(6):1135-43

Effect of Hoe 694, a novel Na(+)-H+ exchange inhibitor, on intracellular pH regulation in the guinea-pig ventricular myocyte. Loh SH, et al. **Br J Pharmacol** 1996 Aug; 118(8):1905-12

Inhibition of monoamine oxidase A and B activities by imidazol(ine)/guanidine drugs, nature of the interaction and distinction from I2-imidazoline receptors in rat liver. Ozaita A, et al. **Br J Pharmacol** 1997 Jul;121(5):901-12

Effect of the Na+/H+ antiport inhibitor Hoe 694 on the angiotensin II-induced vascular smooth muscle cell growth. Sachinidis A, et al. **Br J Pharmacol** 1996 Nov; 119(5):787-96

Pharmacological characterization of guanidinoethyldisulphide (GED), a novel inhibitor of nitric oxide synthase with selectivity towards the inducible isoform. Szabó C, et al. **Br J Pharmacol** 1996 Aug; 118(7):1659-68

Inhibition of nitric oxide synthase attenuates blood-brain barrier disruption during experimental meningitis. Boje KM. **Brain Res** 1996 May 13;720(1-2):75-83

Chemical characterization and comparative cellular effects of meta-iodobenzyl guanidine and benzyl guanidine. Van den Berg JD, et al. **Cancer Chemother Pharmacol** 1997; 40(2):131-7

Efficient scavenging of fatty acid oxidation products by aminoguanidine. Al-Abed Y, et al. **Chem Res Toxicol** 1997 Aug;10(8):875-9

Unanticipated lessening of the rise in extracellular potassium during ischemia by pinacidil. Kanda A, et al. **Circulation** 1997 Apr 1;95(7):1937-44

Phorbol-12,13-dibutyrate and pinacidil cardioplegia. Novel forms of myoprotection. Kirvaitis RJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II381-8

Nutritional and intestinal effects of the novel immunosuppressive agents: deoxyspergualin, rapamycin, and mycophenolate mofetil. Yanchar NL, et al. **Clin Biochem** 1996 Aug;29(4):363-9

Comparative relaxant effects of cromakalim and pinacidil on the tonic contraction of canine coronary artery induced by phorbol 12,13-dibutylate. Kuromaru O, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):493-7

Chronic dosing with aminoguanidine and novel advanced glycosylation end product-formation inhibitors ameliorates cross-linking of tail tendon collagen in STZ-induced diabetic rats. Kochakian M, et al. **Diabetes** 1996 Dec; 45(12):1694-700

Discordant effects of guanidines on renal structure and function and on regional vascular dysfunction and collagen changes in diabetic rats. Nyengaard JR, et al. **Diabetes** 1997 Jan;46(1):94-106

What is the effect of hyperglycemia on atherogenesis and can it be reversed by aminoguanidine? Bucala R. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:123-30 (42 ref.)

Effects of aminoguanidine on serum advanced glycation endproducts, urinary albilmin excretion, mesangial expansion, and glomerular basement membrane thickening in Otsuka Long-Evans Tokushima fatty rats. Yamauchi A, et al. **Diabetes Res Clin Pract** 1997 Jan;34(3):127-33

Uptake of extracellular, dietary putrescine is an important regulatory mechanism of intracellular polyamine metabolism during camostate-induced pancreatic growth in rats. Löser C, et al. **Dig Dis Sci** 1997 Mar;42(3):503-13

Importance of intracellular S-adenosylmethionine decarboxylase activity for the regulation of camostate-induced pancreatic polyamine metabolism and growth: in vivo effect of two novel S-adenosylmethionine decarboxylase inhibitors. Löser C, et al. **Digestion** 1997; 58(3):258-65

Effects of aminoguanidine on glucagon and insulin release from rat pancreatic islet. Tasaka Y, et al. **Endocr J** 1996 Dec;43(6):725-30

Long-term effects of aminoguanidine on insulin release and biosynthesis: evidence that the formation of advanced glycosylation end products inhibits B cell function. Tajiri Y, et al. **Endocrinology** 1997 Jan;138(1):273-80

A comparison between the effects of BMS-180448, a novel K+ channel opener, and cromakalim in rat and dog. D'Alonzo AJ, et al. **Eur J Pharmacol** 1995 Dec 27; 294(1):271-80

Evidence that the NH2-terminus of substance P modulates N-methyl-D-aspartate-induced activity by an action involving sigma receptors. Hornfeldt CS, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):15-22

Modulation of vascular KATP channels in hypothyroidism. Jagadish M, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):63-9

Aminoguanidine reverses aortic hyporeactivity to noradrenaline in portal vein-ligated rats. Michielsen PP, et al. **Eur J Pharmacol** 1997 Jun 25;329(2-3):137-46

Immunosuppressive activity of 15-deoxyspergualin on normal and autoimmune peripheral blood mononuclear cells. Nicoletti F, et al. **Eur J Pharmacol** 1996 Sep 12; 311(2-3):213-20

Camostate- and caerulein-induced delay of gastric emptying in the rat: effect of CCK receptor antagonists. Varga G, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):153-9

Antiarrhythmic effects of HOE642, a novel Na(+)-H+ exchange inhibitor, on ventricular arrhythmias in animal hearts. Xue YX, et al. **Eur J Pharmacol** 1996 Dec 19; 317(2-3):309-16

Inhibition by bertosamil of cardiac responses to pinacidil or Bay k 8644 in isolated dog atria and ventricles. Yonezawa T, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):51-8

Postjunctional effect of pinacidil on contractility of isolated bovine trachealis. Song P, et al. **Eur Respir J** 1996 Oct; 9(10):2057-63

Aminoguanidine and its pro-oxidant effects on an experimental model of protein glycation. Skamarauskas JT, et al. **Free Radic Biol Med** 1996;21(6):801-12

HOE 694 affords protection versus veratrine contractures in rat atria by Na+ channel blockade. Le Grand B, et al. **Fundam Clin Pharmacol** 1996;10(5):467-73

Inhibition of inducible nitric oxide synthase ameliorates endotoxin-induced gut mucosal barrier dysfunction in rats. Unno N, et al. **Gastroenterology** 1997 Oct;113(4):1246-57

Novel effects of guanidine on the neuromuscular junction. Rodrigues-Simioni L, et al. **Gen Pharmacol** 1997 Apr; 28(4):599-605

AL0671, a new potassium channel opener, inhibits nonenzymatic glycation of protein and LDL oxidation. Yamauchi T, et al. **Gen Pharmacol** 1996 Mar;27(2):257-62

Analysis of Arg-Gly-Asp mimetics and soluble receptor of tumour necrosis factor as therapeutic modalities for concanavalin A induced hepatitis in mice. Bruck R, et al. **Gut** 1997 Jan;40(1):133-8

Effects of pinacidil, verapamil, and heart rate on afterdepolarizations in the guinea-pig heart in vivo. Xu J, et al. **Heart Vessels** 1996;11(6):289-302

Transient immunosuppression with deoxyspergualin improves longevity of transgene expression and ability to readminister adenoviral vector to the mouse lung. Kaplan JM, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1095-104

Treatment with 15-deoxyspergualin induces temporal suppression of hemopoiesis and changes thymocyte populations in mice. Mochida-Nishimura K, et al. **Immunopharmacology** 1996 Oct;35(1):65-70

Development of the NMDA ion-channel blocker, aptiganel hydrochloride, as a neuroprotective agent for acute CNS injury. McBurney RN. **Int Rev Neurobiol** 1997;40:173-95 (28 ref.)

Infarct size limitation by a new Na(+)-H+ exchange inhibitor, Hoe 642: difference from preconditioning in the role of protein kinase C. Miura T, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):693-701

Protective effect of nafamostat mesilate in early wound healing. Tsutamoto Y, et al. **J Am Coll Surg** 1997 Jun; 184(6):637-44

Renal and pressor effects of aminoguanidine in cirrhotic rats with ascites. Ortíz MC, et al. **J Am Soc Nephrol** 1996 Dec; 7(12):2694-9

Mercaptoethylguanidine and guanidine inhibitors of nitric-oxide synthase react with peroxynitrite and protect against peroxynitrite-induced oxidative damage. Szabó C, et al. **J Biol Chem** 1997 Apr 4;272(14):9030-6

Glyburide-reversible cardioprotective effects of BMS-180448: functional and energetic considerations. Grover GJ, et al. **J Cardiovasc Pharmacol** 1997 Jan; 29(1):28-38

Protective effect of the sodium/hydrogen exchange inhibitors during global low-flow ischemia. Khandoudi N, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):540-6

In swine myocardium, the infarct size reduction induced by U-89232 is glibenclamide sensitive: evidence that U-89232 is a cardioselective opener of ATP-sensitive potassium channels. Rohmann S, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):69-74

Selectivity of BMS-180448 on myocardial versus brain blood flow in dogs and ferrets. Weselcouch EO, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):61-8

Inhibitory kinetic studies on rat hepatic and renal succinate dehydrogenase with guanidine. Rao SV, et al. **J Enzyme Inhib** 1997 Feb;11(4):293-8

Effect of oral protease inhibitor administration on gallbladder motility in patients with mild chronic pancreatitis. Sugiyama M, et al. **J Gastroenterol** 1997 Jun;32(3):374-9

Inhibition of experimentally-induced liver cirrhosis in rats by a nonpeptidic mimetic of the extracellular matrix-associated Arg-Gly-Asp epitope. Bruck R, et al. **J Hepatol** 1996 Jun;24(6):731-8

Aminoguanidine corrects hyperdynamic circulation without ameliorating portal hypertension and portal hypertensive gastropathy in anesthetized portal hypertensive rats. Lee FY, et al. **J Hepatol** 1997 Mar;26(3):687-93

Inhibition of nitric oxide synthase for treatment of experimental autoimmune encephalomyelitis. Brenner T, et al. **J Immunol** 1997 Mar 15;158(6):2940-6

(2-Methyl-5-(methylsulfonyl)benzoyl)guanidine Na+/H+ antiporter inhibitors. Baumgarth M, et al. **J Med Chem** 1997 Jun 20;40(13):2017-34

Evaluation of selected chemotypes in coupled cellular and molecular target-based screens identifies novel HIV-1 zinc finger inhibitors. Rice WG, et al. **J Med Chem** 1996 Sep 13;39(19):3606-16

Guanidinobenzoic acid inhibitors of influenza virus neuraminidase. Sudbeck EA, et al. **J Mol Biol** 1997 Apr 4;267(3):584-94

Pinacidil but not nicorandil opens ATP-sensitive K+ channels and protects against simulated ischemia in rabbit myocytes. Critz SD, et al. **J Mol Cell Cardiol** 1997 Apr; 29(4):1123-30

Protein phosphorylation and calcium uptake into rat forebrain synaptosomes: modulation by the sigma ligand, 1,3-ditolylguanidine. Brent PJ, et al. **J Neurochem** 1997 May;68(5):2201-11

Decontamination of Creutzfeldt-Jakob disease and other transmissible agents. Manuelidis L. **J Neurovirol** 1997 Feb; 3(1):62-5

Effect of timing of treatment of the glyburide-reversible cardioprotective activity of BMS-180448. Gomoll AW, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):24-33

Hyperpolarization of isolated capillaries from guinea-pig heart induced by K+ channel openers and glucose deprivation. Langheinrich U, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):397-408

Alterations in venous endothelial cell and smooth muscle cell relaxation induced by high glucose concentrations can be prevented by aminoguanidine. Davies MG, et al. **J Surg Res** 1996 Jul 1;63(2):474-9

Myocardial protection in the acutely injured heart: hyperpolarizing versus depolarizing hypothermic cardioplegia. Lawton JS, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):567-75

Scrapie infectivity correlates with converting activity, protease resistance, and aggregation of scrapie-associated prion protein in guanidine denaturation studies. Caughey B, et al. **J Virol** 1997 May;71(5):4107-10

Differential effect of benexate hydrochloride betadex on prostaglandin levels in stomach and inflammatory site in rats. Hori Y, et al. **Jpn J Pharmacol** 1996 Oct;72(2):183-90

Effects of aminoguanidine in preventing experimental diabetic nephropathy are related to the duration of treatment. Soulis T, et al. **Kidney Int** 1996 Aug;50(2):627-34

Effect of potassium channel modulators on male sexual behavior. Benelli A, et al. **Life Sci** 1997;60(4-5):263-7

A novel class of 5-HT2A receptor antagonists: aryl aminoguanidines. Bryant HU, et al. **Life Sci** 1996; 59(15):1259-68

Comparison of the inhibitory effect of isothiourea and mercapto-alkylguanidine derivatives on the alternative pathways of arginine metabolism in macrophages. Hrabák A, et al. **Life Sci** 1997;60(26):PL395-401

Selective inhibition of inducible nitric oxide synthase by aminoguanidine. Corbett JA, et al. **Methods Enzymol** 1996; 268:398-408

Cardiac phosphocreatine deficiency induced by GPA during

postnatal development in rat. Pelouch V, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:67-76

Binding and effects of P1075, an opener of ATP-sensitive K+ channels, in the aorta from streptozotocin-treated diabetic rats. Glocker S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):210-5

The novel cardioprotective agent BMS-180448 activates a potassium conductance in cardiac and vascular smooth muscle. Lodge NJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):444-51

Comparison of the effects of aminoguanidine and L-carnitine treatments on somatosensorial evoked potentials in alloxan-diabetic rats. Yildiz O, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):526-31

Active inhibitory effect of nafamostat mesylate against the elevation of plasma myeloperoxidase during hemodialysis. Inose K, et al. **Nephron** 1997;75(4):420-5

N-methyl-D-aspartate receptor activation by guanidinosuccinate but not by methylguanidine: behavioural and electrophysiological evidence. D'Hooge R, et al. **Neuropharmacology** 1996 Apr;35(4):433-40

Epileptiform activity and hippocampal damage produced by intrahippocampal injection of guanidinosuccinic acid in rat. Pan JC, et al. **Neurosci Lett** 1996 May 10;209(2):121-4

Trophic action of pharmacological substances with a guanidine group on mouse neuroblastoma cells and chick ganglionic neurons in culture. Pettmann B, et al. **Neurosci Lett** 1997 Jul 25;230(3):167-70

Nafamostat mesilate, a synthetic protease inhibitor, attenuated hypercoagulability in a canine model of hemorrhagic shock. Koido Y, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb;64(1):9-15

In vivo inhibition of the regenerative capacity of hydatid material after treatment with netobimin. García-Llamazares JL, et al. **Parasitol Res** 1997;83(2):105-8

Effects of the Na+/H+-exchange inhibitor Hoe 642 on intracellular pH, calcium and sodium in isolated rat ventricular myocytes. Russ U, et al. **Pflugers Arch** 1996 Nov-Dec;433(1-2):26-34

Effects of cromakalim, pinacidil and glibenclamide on cholinergic transmission in rat isolated atria. Fabiani ME, et al. **Pharmacol Res** 1995 Sep;32(3):155-63

Effects of 2-guanidine-4-methylquinazoline on gastric acid secretion in rats. Pinelli A, et al. **Pharmacol Res** 1996 Nov-Dec;34(5-6):225-30

Modulation by the endothelium of the inhibitory effects of pinacidil and nimodipine on endothelin-induced contraction in cerebral arteries. Petersson J, et al. **Pharmacol Toxicol** 1997 Jan;80(1):30-7

Studies on pyrazinoylguanidine. 1. Characterization of metabolic effects in diabetic rats. A-Rahim YI, et al. **Pharmacology** 1996 Mar;52(3):135-44

Studies on pyrazinoylguanidine. 3. Downregulation of lipolysis in isolated adipocytes. A-Rahim YI, et al. **Pharmacology** 1996 Oct;53(4):197-210

Studies on pyrazinoylguanidine. 4. Upregulation of phosphodiesterase activity in rat adipose tissue and downregulation of gluconeogenesis and adenosine 3',5'-monophosphate concentrations in perfused rat liver. A-Rahim YI, et al. **Pharmacology** 1996 Oct;53(4):211-8

Hemodynamic and cardiac effects of BMS-180448, a novel K+ATP opener, in anesthetized dogs and isolated rat hearts. D'Alonzo AJ, et al. **Pharmacology** 1996 Feb; 52(2):101-12

Some behavioral effects of 1,3-di-o-tolylguanidine, opipramol and sertraline, the sigma site ligands. Maj J, et al. **Pol J Pharmacol** 1996 Jul-Aug;48(4):379-95

Effects of aminoguanidine and N(G)-nitro-L-arginine methyl ester on vascular responses of aortae and lungs from streptozotocin-diabetic rats. Dewhurst M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Apr; 56(4):317-24

Denaturants can accelerate folding rates in a class of globular proteins. Camacho CJ, et al. **Protein Sci** 1996 Sep; 5(9):1826-32

Nafamostat mesilate, a broad spectrum protease inhibitor, modulates platelet, neutrophil and contact activation in simulated extracorporeal circulation. Sundaram S, et al. **Thromb Haemost** 1996 Jan;75(1):76-82

Effects of TAK-029, a novel GPIIb/IIIa antagonist, on arterial thrombosis in guinea pigs, dogs and monkeys. Kawamura M, et al. **Thromb Res** 1997 May 15;86(4):275-85

15-Deoxyspergualin inhibits interleukin 6 production in in vitro stimulated human lymphocytes. Borg AJ, et al. **Transpl Immunol** 1996 Jun;4(2):133-43

Synergistic effects of nafamostat mesilate rinse and Kupffer cell blockade for rat liver preservation. Ohdan H, et al. **Transpl Int** 1996;9 Suppl 1:S447-51

The effect and pharmacokinetics of nafamostat mesilate adjunct to cold nondepolarizing cardioplegia in a canine model of cardiac preservation. Sunamori M, et al. **Transpl Int** 1996;9(4):364-9

Aminoguanidine inhibits the generation of nitric oxide in vitro and prolongs islet xenograft survival in rats. Behboo R, et al. **Transplant Proc** 1997 Jun;29(4):2152-3

15-Deoxyspergualin attenuates pericapsular cellular infiltration and prolongs survival of alginate-poly-L-lysine-alginate microencapsulated islets. Hsu BR, et al. **Transplant Proc** 1997 Jun;29(4):2158-60

Lipid absorption of the allointestinal grafts under a short course of methyldeoxyspergualin. Saito T, et al. **Transplant Proc** 1996 Oct;28(5):2570

15-deoxyspergualin downregulates MHC class II antigen expression and cell migration in models of graft-versus-host and host-versus-graft disease. Waaga AM, et al. **Transplant Proc** 1996 Oct;28(5):2515-7

Effects of leflunomide and deoxyspergualin in the guinea pig-->rat cardiac model of delayed xenograft rejection: suppression of B cell and C-C chemokine responses but not induction of macrophage lectin. Hancock WW, et al. **Transplantation** 1997 Sep 15;64(5):696-704

[Inhibitory effect of FOY-305 on liver metastasis of the pancreatic cancer] Ohta T, et al. **Gan To Kagaku Ryoho** 1996 Oct;23(12):1669-72 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Inhibition of ADP-induced platelet aggregation by guanidine thiols--a novel class of guanylate cyclase activators and NO-synthase substrates] Belushkina NN, et al. **Biokhimiia** 1996 Dec;61(12):2140-6 (Eng. Abstr.) **(Rus)**

[The antimicrobial activity and cytotoxicity of anti-infective preparations in a human cell-culture model] Afinogenov GE, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct;(5):3-7 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Aminoguanidine prolongs survival in azotemic-induced diabetic rats. Friedman EA, et al. **Am J Kidney Dis** 1997 Aug;30(2):253-9

Nafamostat mesilate reduces blood-foreign surface reactions similar to biocompatible materials. Usui A, et al. **Ann Thorac Surg** 1996 Nov;62(5):1404-11

Evaluation of anti-influenza effects of camostat in mice infected with non-adapted human influenza viruses. Lee MG, et al. **Arch Virol** 1996;141(10):1979-89

Accelerated recovery following polyamines and aminoguanidine treatment after facial nerve injury in rats. Gilad VH, et al. **Brain Res** 1996 Jun 10;724(1):141-4

Prevention of ischemic rigor contracture during coronary occlusion by inhibition of Na(+)-H+ exchange. Garcia-Dorado D, et al. **Cardiovasc Res** 1997 Jul;35(1):80-9

Amelioration of ischemia/reperfusion injury in isolated rats hearts by the ATP-sensitive potassium channel opener BMS-180448. Monticello TM, et al. **Cardiovasc Res** 1996 Jan;31(1):93-101

15-Deoxyspergualin, an immunosuppressive agent, used in organ transplantation showed suppressive effects on malarial parasites. Midorikawa Y, et al. **Chemotherapy** 1997 Jan-Feb;43(1):31-5

Normal insulin release during sustained hyperglycaemia in hypokalaemic periodic paralysis: role of the potassium channel opener pinacidil in impaired muscle strength. Ligtenberg JJ, et al. **Clin Sci (Colch)** 1996 Nov;91(5):583-9

A double-masked placebo-controlled trial assessing effects of various doses of BTS 67,582, a novel insulinotropic agent, on fasting hyperglycemia in NIDDM patients. Skillman CA, et al. **Diabetes Care** 1997 Apr;20(4):591-6

KATP channel modulators increase survival rate during coronary occlusion-reperfusion in anaesthetized rats. Baczkó I, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):77-83

Effects of aminoguanidine on systemic inflammatory response syndrome induced by platelet activating factor and by lipopolysaccharide in rats. Takano H, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):107-10

Inhibitory action of deoxyspergualin on effector/memory T cell generation during Hymenolepis nana infection in mice. Asano K, et al. **Immunol Lett** 1996 Oct;53(1):51-7

Application of a new anticoagulant (Nafamostat Mesilate) to control hemorrhagic complications during extracorporeal membrane oxygenation--a preliminary report. Nagaya M, et al. **J Pediatr Surg** 1997 Apr; 32(4):531-5

The effect of inhibitors of inducible nitric oxide synthase on chronic colitis in the rhesus monkey. Ribbons KA, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1008-15

Comparison of the nitric oxide synthase inhibitors methylarginine and aminoguanidine as prophylactic and therapeutic agents in rat adjuvant arthritis. Stefanovic-Racic M, et al. **J Rheumatol** 1995 Oct; 22(10):1922-8

A curious stopping rule from Hoechst Marion Roussel [editorial] **Lancet** 1997 Jul 19;350(9072):155

Early closure of European Pimagedine trial. Steering Committee. Safety Committee [letter] Viberti G, et al. **Lancet** 1997 Jul 19;350(9072):214-5

Effects of aminoguanidine on structural alterations of microvessels in peripheral nerve of streptozotocin diabetic rats. Sugimoto K, et al. **Microvasc Res** 1997 Mar; 53(2):105-12

Will pimagidine improve survival of diabetics on dialysis? Friedman EA. **Nephrol Dial Transplant** 1996 Aug; 11(8):1524-7 (44 ref.)

An inhibition of urinary albumin excretion by protease inhibitor in streptozotocin-diabetic rats. Ikeda T, et al. **Nephron** 1996;74(4):709-12

Between goat-farm biological variability of the nematode Muellerius capillaris first-stage larvea. Influence of anthelmintic treatment. Kulo A, et al. **Parasite** 1994 Mar; 1(1):65-70

Effects of the synergistic action of febantel and pyrantel on the nematode Heterakis spumosa: a light and transmission electron microscopy study. Mehlhorn H, et al. **Parasitol Res** 1997;83(5):419-34

Vasorelaxation by pinacidil in isolated perfused lungs is enhanced in rats with hypoxic pulmonary hypertension but is dependent on the constrictor. Wanstall JC. **Physiol Res** 1995;44(1):1-6

Inhibition of inducible nitric oxide synthase prolongs rat lung allograft survival. Shiraishi T, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):78-82

Synergistic effect of donor-specific blood transfusion and a short course of deoxyspergualin in rat kidney transplantation. Tanabe K, et al. **Transpl Int** 1996;9(4):353-8

Effectiveness of 15-deoxyspergualin on steroid-resistant acute rejection in living related liver transplantation. Katoh H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):553-4

Successful renal transplantation in presensitized recipients with double-filtration plasmapheresis and 15-deoxyspergualin. Miura S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):350-1

Prolongation of corneal xenograft survival with deoxyspergualin and anti-LFA-1 monoclonal antibody. Yamagami S, et al. **Transplant Proc** 1997 Jun;29(4):2288-9

Attenuation of lethal graft-versus-host disease by inhibition of nitric oxide synthase. Hoffman RA, et al. **Transplantation** 1997 Jan 15;63(1):94-100

TOXICITY

Effects of NO synthase inhibitors, arginine-deficient diet, and amiloride in pregnant rats. Greenberg SS, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1031-45

Lack of carcinogenicity of cyanoguanidine in F344 rats. Yasuhara K, et al. **Food Chem Toxicol** 1997 May; 35(5):475-80

Myonecrosis induced by guanidine in the mouse isolated phrenic nerve diaphragm preparation. Cruz-Höfling MA, et al. **Gen Pharmacol** 1997 Apr;28(4):593-7

Synthesis and cytotoxic evaluation of substituted sulfonyl-N-hydroxyguanidine derivatives as potential antitumor agents. Chern JW, et al. **J Med Chem** 1997 Jul 4;40(14):2276-86

BMY-14802 reversed the sigma receptor agonist-induced neck dystonia in rats. Okumura K, et al. **J Neural Transm** 1996;103(10):1153-61

Experimental toxicity of verbesina encelioides in sheep and isolation of galegine. Lopez TA, et al. **Vet Hum Toxicol** 1996 Dec;38(6):417-9

[Intensity of liver tumor promotion effects in rats given repeated oral administrations of benzimidazole compounds] Onodera H, et al. **Eisei Shikenjo Hokoku** 1996;(114):21-6 (Eng. Abstr.) **(Jpn)**

URINE

Guanidino compounds in serum and urine of nondialyzed patients with chronic renal insufficiency. Marescau B, et al. **Metabolism** 1997 Sep;46(9):1024-31

GUANINE

Guanine-rich oligonucleotide modified at the 5' terminal by dimethoxytrityl residue inhibits HIV-1 replication by specific interaction with the envelope glycoprotein. Agatsuma T, et al. **Antiviral Res** 1996 Jul;31(3):137-48

Synthesis of heterocycles containing two cytosine or two guanine base-pairing sites. Novel tectons for self-assembly. Petersen PM, et al. **Bioorg Med Chem** 1996 Jul;4(7):1107-12

A cystic fibrosis patient homozygous for 621 + 1G-->T mutation has a severe pulmonary disease, mild pancreatic insufficiency and a gastro-esophageal reflux. Witt M, et al. **Clin Genet** 1996 Sep;50(3):149-51

Recognition of AUG and alternative initiator codons is augmented by G in position +4 but is not generally affected by the nucleotides in positions +5 and +6. Kozak M. **EMBO J** 1997 May 1;16(9):2482-92

Structural transitions of a GG-platinated DNA duplex induced by pH, temperature and box A of high-mobility-group protein 1. Berners-Price SJ, et al. **Eur J Biochem** 1997 Feb 1;243(3):782-91

Methoxyamine-induced mutagenesis of nucleic acids. A proton NMR study of oligonucleotides containing N4-methoxycytosine paired with adenine or guanine. Gdaniec Z, et al. **Eur J Biochem** 1996 Dec 1;242(2):271-9

A near homoplasmic T8993G mtDNA mutation in a patient with atypic Leigh syndrome not present in the mother's tissues. Degoul F, et al. **J Inherit Metab Dis** 1997 Mar; 20(1):49-53

The detailed structure of tandem G.A mismatched base-pair motifs in RNA duplexes is context dependent. Heus HA, et al. **J Mol Biol** 1997 Aug 8;271(1):147-58

A relationship between GC content and coding-sequence length. Oliver JL, et al. **J Mol Evol** 1996 Sep;43(3):216-23

GC-rich template amplification by inverse PCR. DNA polymerase and solvent effects. Moreau A, et al. **Methods Mol Biol** 1997;67:47-53

G triplets located throughout a class of small vertebrate introns enforce intron borders and regulate splice site selection. McCullough AJ, et al. **Mol Cell Biol** 1997 Aug; 17(8):4562-71

Enhancement of transcription by short alternating C.G tracts incorporated within a Rous sarcoma virus-based chimeric promoter: in vivo studies. Krajewski WA. **Mol Gen Genet** 1996 Sep 13;252(3):249-54

Structural features of the DNA hairpin d(ATCCTA-GTTA-TAGGAT): formation of a G-A base pair in the loop. van Dongen MJ, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1537-47

Mechanisms of cytochrome P450 1A2-mediated formation of N-hydroxy arylamines and heterocyclic amines and their reaction with guanyl residues. Guengerich FP, et al. **Princess Takamatsu Symp** 1995;23:78-84 (32 ref.)

A curved RNA helix incorporating an internal loop with G.A and A.A non-Watson-Crick base pairing. Baeyens KJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):12851-5

Cell cycle-regulated generation of single-stranded G-rich DNA in the absence of telomerase. Dionne I, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13902-7

Recurrent G-to-A substitution in a single codon of SREBP cleavage-activating protein causes sterol resistance in three mutant Chinese hamster ovary cell lines. Nohturfft A, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13709-14

Four primordial modes of tRNA-synthetase recognition, determined by the (G,C) operational code. Rodin SN, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5183-8

The 1691 G-->A mutation in the factor V gene: relationship to activated protein C (APC) resistance and thrombosis in 65 patients. Leroy-Matheron C, et al. **Thromb Haemost** 1996 Jan;75(1):4-10

Identification of a new thyroglobulin variant: a guanine-to-adenine transition resulting in the substitution of arginine 2510 by glutamine. Mendive FM, et al. **Thyroid** 1997 Aug;7(4):587-91

The G-tetrad in antisense targeting [letter] Probst JC, et al. **Trends Genet** 1996 Aug;12(8):290-1

Naturally occurring hepatitis B virus genomes bearing the hallmarks of retroviral G-->A hypermutation. Günther S, et al. **Virology** 1997 Aug 18;235(1):104-8

ANALOGS & DERIVATIVES

Crystal structures of some acyclonucleosides with antiviral activity and related compounds. Birnbaum KB. **Acta Biochim Pol** 1996;43(1):65-76 (33 ref.)

High-performance liquid chromatography/electrospray mass spectrometry for the analysis of modified bases in DNA: 7-(2-hydroxyethyl)guanine, the major ethylene oxide-DNA adduct. Leclercq L, et al. **Anal Chem** 1997 May 15;69(10):1952-5

Effect of G:C-->A:T transition, potentially arising from O6-guanine alkylation, in the transcription regulation of c-fos serum response element. Bonfanti M, et al. **Anticancer Res** 1997 May-Jun;17(3C):2019-24

MDL 74,968, a new acyclonucleotide analog: activity against human immunodeficiency virus in vitro and in the hu-PBL-SCID.beige mouse model of infection. Bridges CG, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1072-7

9-(4-Hydroxybutyl)-N2-phenylguanine (HBPG), a thymidine kinase inhibitor, suppresses herpes virus reactivation in mice. Gebhardt BM, et al. **Antiviral Res** 1996 May;30(2-3):87-94

Effect of 9-(4-hydroxybutyl)-N2-phenylguanine (HBPG), a thymidine kinase inhibitor, on clinical recurrences of ocular herpetic keratitis in squirrel monkeys. Kaufman HE, et al. **Antiviral Res** 1996 Dec;33(1):65-72

Biotransformation and pharmacokinetics of prodrug 9-(beta-D-1,3-dioxolan-4-yl)-2-aminopurine and its antiviral metabolite 9-(beta-D-1,3-dioxolan-4-yl)guanine in mice. Manouilov KK, et al. **Antiviral Res** 1997 Aug; 35(3):187-93

Efficacy of BMS-180194 against experimental cytomegalovirus infections in immunocompromised mice. Yang H, et al. **Antiviral Res** 1996 Mar;29(2-3):233-41

N7-(2-hydroxyethylthioethyl)-guanine: a novel urinary metabolite following exposure to sulphur mustard [letter] Fidder A, et al. **Arch Toxicol** 1996;70(12):854-5

BCX-34: a novel T-cell selective immunosuppressant: purine nucleoside phosphorylase (PNP) inhibitor. Wada Y, et al. **Artif Organs** 1996 Aug;20(8):849-52

Effects of a diet deficient in tyrosine and queuine on germfree mice. Marks T, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):233-7

Effect of DNA on the inactivation of O6-alkylguanine-DNA alkyltransferase by 9-substituted O6-benzylguanine derivatives. Pegg AE, et al. **Biochem Pharmacol** 1997 May 15;53(10):1559-64

Analysis of nucleotide insertion and extension at 8-oxo-7,8-dihydroguanine by replicative T7 polymerase exo- and human immunodeficiency virus-1 reverse transcriptase using steady-state and pre-steady-state kinetics. Furge LL, et al. **Biochemistry** 1997 May 27; 36(21):6475-87

Specific recognition of O6-methylguanine in DNA by active site mutants of human O6-methylguanine-DNA methyltransferase. Hazra TK, et al. **Biochemistry** 1997 May 13;36(19):5769-76

Misincorporation of dNTPs opposite 1,N2-ethenoguanine and 5,6,7,9-tetrahydro-7-hydroxy-9-oxoimidazo[1,2-a]purine in oligonucleotides by Escherichia coli polymerases I exo- and II exo-, T7 polymerase exo-, human immunodeficiency virus-1 reverse transcriptase, and rat polymerase beta. Langouët S, et al. **Biochemistry** 1997 May 20; 36(20):6069-79

Mapping of the cleavage-associated bleomycin binding site on DNA with a new method based on site-specific blockage of the minor groove with N2-isobutyrylguanine. Suh D, et al. **Biochemistry** 1997 Apr 8;36(14):4248-57

Effects of N1-guanyl-1,7-diaminoheptane, an inhibitor of deoxyhypusine synthase, on the growth of tumorigenic cell lines in culture. Shi XP, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):119-26

Conformation of plasmid DNA from Escherichia coli deficient in the repair systems protecting DNA from 8-oxyguanine lesions. Wójcik A, et al. **Biochimie** 1996; 78(2):85-9

Cytotoxicity of fluoroethylating agents is potentiated by O6-benzylguanine. Terashima I, et al. **Biol Pharm Bull** 1996 Jul;19(7):956-61

O6-benzylguanine potentiates the in vivo toxicity and clastogenicity of temozolomide and BCNU in mouse bone marrow. Chinnasamy N, et al. **Blood** 1997 Mar 1; 89(5):1566-73

Intraarterial O6-benzylguanine enables the specific therapy of nitrosourea-resistant intracranial human glioma xenografts in athymic rats with 1,3-bis(2-chloroethyl)-1-nitrosourea. Kurpad SN, et al. **Cancer Chemother Pharmacol** 1997;39(4):307-16

Effects of multiple risk factors for hepatocellular carcinoma on formation of aflatoxin B1-DNA adducts. Yu MW, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):613-9

Creation of human alkyltransferases resistant to O6-benzylguanine. Christians FC, et al. **Cancer Res** 1997 May 15;57(10):2007-12

Resistance of the human O6-alkylguanine-DNA alkyltransferase containing arginine at codon 160 to inactivation by O6-benzylguanine. Edara S, et al. **Cancer Res** 1996 Dec 15;56(24):5571-5

Glial cell-specific differences in repair of O6-methylguanine. LeDoux SP, et al. **Cancer Res** 1996 Dec 15;56(24):5615-9

Mutagenic DNA base modifications are correlated with lesions in nonneoplastic hepatic tissue of the English sole carcinogenesis model. Malins DC, et al. **Cancer Res** 1996 Dec 15;56(24):5563-5

Involvement of 8-hydroxyguanine formation in the initiation of rat liver carcinogenesis by low dose levels of N-nitrosodiethylamine. Nakae D, et al. **Cancer Res** 1997 Apr 1;57(7):1281-7

LY231514, a pyrrolo[2,3-d]pyrimidine-based antifolate that inhibits multiple folate-requiring enzymes. Shih C, et al. **Cancer Res** 1997 Mar 15;57(6):1116-23

Nitrosated glycine derivatives as a potential source of O6-methylguanine in DNA. Shuker DE, et al. **Cancer Res** 1997 Feb 1;57(3):366-9

Mutation in resting cells: the role of endogenous DNA damage. Bridges BA. **Cancer Surv** 1996;28:155-67 (47 ref.)

Role of DNA repair in resistance to drugs that alkylate O6 of guanine. Koç ON, et al. **Cancer Treat Res** 1996;87:123-46 (138 ref.)

Induction of hprt gene mutations in splenic T-lymphocytes from the rat exposed in vivo to DNA methylating agents is correlated with formation of O6-methylguanine in bone marrow and not in the spleen. Jansen JG, et al. **Carcinogenesis** 1996 Oct;17(10):2183-91

Fpg protein releases a ring-opened N-7 guanine adduct from DNA that has been modified by sulfur mustard. Li Q, et al. **Carcinogenesis** 1997 May;18(5):1035-8

Formation and persistence of O6-ethylguanine in genomic and transgene DNA in liver and brain of lambda(lacZ) transgenic mice treated with N-ethyl-N-nitrosourea. Mientjes EJ, et al. **Carcinogenesis** 1996 Nov;17(11):2449-54

The Escherichia coli MutS DNA mismatch binding protein specifically binds O(6)-methylguanine DNA lesions. Rasmussen LJ, et al. **Carcinogenesis** 1996 Sep;17(9):2085-8

Increased 8-hydroxyguanine levels in DNA and its repair activity in rat kidney after administration of a renal carcinogen, ferric nitrilotriacetate. Yamaguchi R, et al. **Carcinogenesis** 1996 Nov;17(11):2419-22

O6-methylguanine induces intrachromosomal homologous recombination in human cells. Zhang H, et al. **Carcinogenesis** 1996 Oct;17(10):2229-35

Intrachromosomal probes for mutagenesis by alkylated DNA bases replicated in mammalian cells: a comparison of the mutagenicities of O4-methylthymine and O6-methylguanine in cells with different DNA repair backgrounds. Altshuler KB, et al. **Chem Res Toxicol** 1996 Sep;9(6):980-7

Production of a high-affinity monoclonal antibody specific for 7-(benzo[alpha]pyren-6-yl) guanine and its application in a competitive enzyme-linked immunosorbent assay. Casale GP, et al. **Chem Res Toxicol** 1996 Sep;9(6):1037-43

Quantitation of 8-oxoguanine and strand breaks produced by four oxidizing agents. Kennedy LJ, et al. **Chem Res Toxicol** 1997 Apr;10(4):386-92

Pyridyloxobutyl adduct O6-[4-oxo-4-(3-pyridyl)butyl]guanine is present in 4-(acetoxymethylnitrosamino)-1-(3-pyridyl)-1-butanone-treated DNA and is a substrate for O6-alkylguanine-DNA alkyltransferase. Wang L, et al. **Chem Res Toxicol** 1997 May;10(5):562-7

Processing of O6-methylguanine by mismatch correction in human cell extracts. Ceccotti S, et al. **Curr Biol** 1996 Nov 1;6(11):1528-31

Metabolism and disposition of the antifolate LY231514 in mice and dogs. Woodland JM, et al. **Drug Metab Dispos** 1997 Jun;25(6):693-700

Phenylguanine found in urine after benzene exposure. Norpoth KH, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1159-63

Increase in the 8-hydroxyguanine repair activity in the rat kidney after the administration of a renal carcinogen, ferric nitrilotriacetate. Yamaguchi R, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:651-3

Formation and repair of O6-methylguanine in recombination hot spots of plant chromosomes. Baranczewski P, et al. **Environ Mol Mutagen** 1997;29(4):394-9

Removal of O6-methylguanine from plant DNA in vivo is accelerated under conditions of clastogenic adaptation. Baranczewski P, et al. **Environ Mol Mutagen** 1997; 29(4):400-5

Formation of O6-ethylguanine in spermatogonial DNA of adult Syrian golden hamster by intraperitoneal injection of diethylnitrosamine. Kamino K, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):443-5

Changes in the urinary excretion level of 8-hydroxyguanine by exposure to reactive oxygen-generating substances. Suzuki J, et al. **Free Radic Biol Med** 1995 Mar;18(3):431-6

Determination of N7- and O6-methylguanine in rat liver DNA after oral exposure to hydrazine by use of immunochemical and electrochemical detection methods. van Delft JH, et al. **Fundam Appl Toxicol** 1997 Jan; 35(1):131-7

Protection of mammalian cells against chloroethylating agent toxicity by an O6-benzylguanine-resistant mutant of human O6-alkylguanine-DNA alkyltransferase. Hickson I, et al. **Gene Ther** 1996 Oct;3(10):868-77

In vivo and in vitro pharmacologic activity of the purine nucleoside phosphorylase inhibitor BCX-34: the role of GTP and dGTP. Bantia S, et al. **Immunopharmacology** 1996 Oct;35(1):53-63

Repair of O6-benzylguanine by the Escherichia coli Ada and Ogt and the human O6-alkylguanine-DNA alkyltransferases. Goodtzova K, et al. **J Biol Chem** 1997 Mar 28;272(13):8332-9

Satellite high-performance liquid chromatography for trace sample cleanup [letter] Abushamaa A, et al. **J Chromatogr A** 1996 Aug 23;742(1-2):295-7

Determination of O6-benzylguanine in human plasma by reversed-phase high-performance liquid chromatography. Stefan TL, et al. **J Chromatogr B Biomed Appl** 1996 Jun 7;681(2):331-8

Determination of acyclovir and its metabolite 9-carboxymethoxymethylguanine in serum and urine using solid-phase extraction and high-performance liquid chromatography. Svensson JO, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):363-6

High-performance liquid chromatographic determination of 9-(3-pyridylmethyl)-9-deazaguanine (BCX-34) in biological fluids. Yan J, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):295-303

Detection of N7-(2-hydroxyethyl)guanine adducts in DNA and 9L cells treated with 1-(2-chloroethyl)-1-nitrosourea. Ye Q, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20; 694(1):65-70

Quantitative analysis of the DNA adduct N2,3-ethenoguanine using liquid chromatography/electrospray ionization mass spectrometry. Yen TY, et al. **J Mass Spectrom** 1996 Nov; 31(11):1271-6

Potent tetracyclic guanine inhibitors of PDE1 and PDE5 cyclic guanosine monophosphate phosphodiesterases with oral antihypertensive activity. Ahn HS, et al. **J Med Chem** 1997 Jul 4;40(14):2196-210

Acyclic nucleotide analogs derived from 8-azapurines: synthesis and antiviral activity. Holý A, et al. **J Med Chem** 1996 Sep 27;39(20):4073-88

Carbocyclic oxetanocins lacking the C-3' methylene. Wu J, et al. **J Med Chem** 1997 Apr 25;40(9):1401-6

1,3-Dimethylisoguanine, a new purine from the marine sponge Amphimedon viridis. Chehade CC, et al. **J Nat Prod** 1997 Jul;60(7):729-31

Isolation and characterization of 1,3-dimethylisoguanine from the Bermudian sponge Amphimedon viridis. Mitchell SS, et al. **J Nat Prod** 1997 Jul;60(7):727-8

Oxidative DNA damage in the parkinsonian brain: an apparent selective increase in 8-hydroxyguanine levels in substantia nigra. Alam ZI, et al. **J Neurochem** 1997 Sep; 69(3):1196-203

Effect of UVM induction on mutation fixation at non-pairing and mispairing DNA lesions. Rahman MS, et al. **Mol Microbiol** 1996 Nov;22(4):747-55

Intracellular metabolism and action of acyclic nucleoside phosphonates on DNA replication. Pisarev VM, et al. **Mol Pharmacol** 1997 Jul;52(1):63-8

Introduction, distribution, and removal of 7-methylguanine in different liver chromatin fractions of young and old mice. Gaubatz JW, et al. **Mutat Res** 1997 Apr 14;375(1):25-35

Presence of human cellular protein(s) that specifically binds and cleaves 8-hydroxyguanine containing DNA. Nagashima M, et al. **Mutat Res** 1997 Jan 31;383(1):49-59

Formation of a covalent complex between methylguanine methyltransferase and DNA via disulfide bond formation between the active site cysteine and a thiol-containing analog of guanine. Paalman SR, et al. **Nucleic Acids Res** 1997 May 1;25(9):1795-801

Structure of the hydrogen bonding complex of O6-methylguanine with cytosine and thymine during DNA replication. Spratt TE, et al. **Nucleic Acids Res** 1997 Aug 15;25(16):3354-61

8-Methylguanine-containing oligonucleotides: useful structural constraint for Z form DNA. Kawai K, et al. **Nucleic Acids Symp Ser** 1995;(34):33-4

Retroviral transduction of a mutant methylguanine DNA methyltransferase gene into human CD34 cells confers resistance to O6-benzylguanine plus 1,3-bis(2-chloroethyl)-1-nitrosourea. Reese JS, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):14088-93

Potentiation of testicular cytotoxicity by the alkyltransferase inhibitor O6 benzylguanine and the 5-fluorouracil/N-(2-chloroethyl)-N-nitrosourea molecular combination, B.4152. Thompson MJ, et al. **Reprod Toxicol** 1996 Jan-Feb;10(1):71-7

Formation and persistence of N7- and O6-methyl-guanine in DNA of chick embryo brain cells in ovo following administration of N-nitroso-N-methylurea. Schleifer S, et al. **Zentralbl Veterinarmed A** 1996 Dec;43(10):589-98

[Study on potentiation of nitrosourea-cytotoxicity by DNA repair enzyme inhibitors in human brain tumor cells] Fukuchi M, et al. **No To Shinkei** 1997 Jun;49(6):521-8 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Comparison of high performance capillary electrophoresis and liquid chromatography for the determination of acyclovir and guanine in pharmaceuticals and urine. Zhang SS, et al. **Biomed Chromatogr** 1996 Sep-Oct;10(5):256-7

Strong, specific, monodentate G-C base pair recognition by N7-inosine derivatives in the pyrimidine.purine-pyrimidine triple-helical binding motif. Marfurt J, et al. **Nucleic Acids Res** 1997 May 15;25(10):1875-82

BIOSYNTHESIS

Effects of carbon dioxide/bicarbonate on induction of DNA single-strand breaks and formation of 8-nitroguanine, 8-oxoguanine and base-propenal mediated by peroxynitrite. Yermilov V, et al. **FEBS Lett** 1996 Dec 9; 399(1-2):67-70

BLOOD

Lack of expansion of cytosine adenine guanine trinucleotide repeat in the dentatorubral and pallidoluysian atrophy gene in Swedish schizophrenic patients. Jönsson E, et al. **Biol Psychiatry** 1996 Aug 1;40(3):228-9

CHEMICAL SYNTHESIS

Potent tetracyclic guanine inhibitors of PDE1 and PDE5 cyclic guanosine monophosphate phosphodiesterases with oral antihypertensive activity. Ahn HS, et al. **J Med Chem** 1997 Jul 4;40(14):2196-210

CHEMISTRY

Crystal structures of some acyclonucleosides with antiviral activity and related compounds. Birnbaum KB. **Acta Biochim Pol** 1996;43(1):65-76 (33 ref.)

Solution structure of an intramolecular DNA triplex containing an N7-glycosylated guanine which mimics a protonated cytosine. Koshlap KM, et al. **Biochemistry** 1997 Mar 4;36(9):2659-68

Investigation of the structural basis for thermodynamic stabilities of tandem GU wobble pairs: NMR structures of (rGGAGUUCC)2 and (rGGAUGUCC)2. McDowell JA, et al. **Biochemistry** 1997 Jul 1;36(26):8030-8

Influence of the local helical conformation on the guanine modifications generated from one-electron DNA oxidation. Spassky A, et al. **Biochemistry** 1997 Jun 3; 36(22):6571-6

Pyridyloxobutylation of guanine residues by 4-[(acetoxymethyl)nitrosamino]-1-(3-pyridyl)-1-butanone generates substrates of O6-alkylguanine-DNA alkyltransferase. Liu XK, et al. **Chem Res Toxicol** 1996 Sep;9(6):949-53

Replication protein-A mediates the association of calf thymus DNA polymerase alpha-DNA primase complex with guanine-rich DNA sequence. Suzuki M, et al. **J Biochem (Tokyo)** 1996 Oct;120(4):766-72

The X-ray structure of the PurR-guanine-purF operator complex reveals the contributions of complementary electrostatic surfaces and a water-mediated hydrogen bond to corepressor specificity and binding affinity. Schumacher MA, et al. **J Biol Chem** 1997 Sep 5;272(36):22648-53

Quantum molecular modeling of the interaction between guanine and alkylating agents--1--sulfur mustard. Broch H, et al. **J Biomol Struct Dyn** 1996 Jun;13(6):903-14

G and T nucleotide contents show specie-invariant negative correlation for all three codon positions. Frank GK, et al. **J Biomol Struct Dyn** 1997 Apr;14(5):629-39

Quantum molecular modeling of the interaction between guanine and alkylating agents--2--nitrogen mustard. Hamza A, et al. **J Biomol Struct Dyn** 1996 Jun;13(6):915-24

Hydrogen-bonded trimers of DNA bases and their interaction with metal cations: ab initio quantum-chemical and empirical potential study. Sponer J, et al. **J Biomol Struct Dyn** 1997 Apr;14(5):613-28

Hexamer palindromic oligonucleotides with 5'-CG-3' motif(s) induce production of interferon. Sonehara K, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):799-803

Bombyx mori single repeat telomeric DNA sequence forms a G-quadruplex capped by base triads. Kettani A, et al. **Nat Struct Biol** 1997 May;4(5):382-9

Isoguanine quartets formed by d(T4isoG4T4): tetraplex identification and stability. Seela F, et al. **Nucleic Acids Res** 1996 Dec 15;24(24):4940-5

Efficient guanine alkylation through cooperative heterodimeric formation of duocarmycin A and distamycin A. Isomura M, et al. **Nucleic Acids Symp Ser** 1995;(34):47-8

The most electron-donating sites in duplex DNA: guanine-guanine stacking rule. Saito I, et al. **Nucleic Acids Symp Ser** 1995;(34):191-2

Combined hereditary disorders of haemophilia B Leyden (-6 G-->A) and type 1 von Willebrand disease. Pernod G, et al. **Thromb Haemost** 1996 Aug;76(2):151-5

METABOLISM

32P-postlabelling/HPLC assay reveals an enantioselective adduct formation in N7 guanine residues in vivo after 1,3-butadiene inhalation exposure. Koivisto P, et al. **Carcinogenesis** 1997 Feb;18(2):439-43

Estrogen-nucleic acid adducts: guanine is major site for interaction between 3,4-estrone quinone and COIII gene. Roy D, et al. **Carcinogenesis** 1997 Jun;18(6):1247-9

Identification and quantitation of DNA adducts from calf thymus DNA exposed to 3,4-epoxy-1-butene. Tretyakova N, et al. **Carcinogenesis** 1997 Jan;18(1):137-47

Long-range oxidation of guanine by Ru(III) in duplex DNA. Arkin MR, et al. **Chem Biol** 1997 May;4(5):389-400

Addition of deoxyribose to guanine and modified DNA based by Lactobacillus helveticus trans-N-deoxyribosylase. Müller M, et al. **Chem Res Toxicol** 1996 Oct-Nov; 9(7):1140-4

Formation and differential removal of C-8 and N2-guanine adducts of the food carcinogen 2-amino-3-methylimidazo[4,5-f]quinoline in the liver, kidney, and colorectum of the rat. Turesky RJ, et al. **Chem Res Toxicol** 1996 Mar;9(2):397-402

Mould-devouring mites differ in guanine excretion from dust-eating Acari, a possible error source in mite allergen exposure studies. Kort HS, et al. **Clin Exp Allergy** 1997 Aug;27(8):921-5

Determination of N7- and O6-methylguanine in rat liver DNA after oral exposure to hydrazine by use of immunochemical and electrochemical detection methods. van Delft JH, et al. **Fundam Appl Toxicol** 1997 Jan; 35(1):131-7

Mechlorethamine-induced enhancement of radiation sensitivity of guanine. Vaishnav YN, et al. **Int J Radiat Biol** 1996 Dec;70(6):735-45

Probing structure/function relationships of HIV-1 reverse transcriptase with styrene oxide N2-guanine adducts. Forgacs E, et al. **J Biol Chem** 1997 Mar 28;272(13):8525-30

Additivity of protein-guanine interactions in ribonuclease T1. Loverix S, et al. **J Biol Chem** 1997 Apr 11;272(15):9635-9

A mouse cytoplasmic exoribonuclease (mXRN1p) with preference for G4 tetraplex substrates. Bashkirov VI, et al. **J Cell Biol** 1997 Feb 24;136(4):761-73

2-Hydroxyadenine (isoguanine) as oxidative DNA damage: its formation and mutation inducibility. Kamiya H, et al. **Nucleic Acids Symp Ser** 1995;(34):233-4

Biological formation of the 1,3-butadiene DNA adducts 7-N-(2-hydroxy-3-buten-1-yl)guanine, 7-N-(1-hydroxy-3-buten-2-yl)guanine and 7-N-(2,3,4-trihydroxy-butyl)guanine. Bolt HM, et al. **Toxicology** 1996 Oct 28;113(1-3):328-30

PHARMACOLOGY

Mutations induced by 2-hydroxyadenine on a shuttle vector during leading and lagging strand syntheses in mammalian cells. Kamiya H, et al. **Biochemistry** 1997 Sep 16; 36(37):11125-30

Human leukemia K562 cells: induction to erythroid differentiation by guanine, guanosine and guanine nucleotides. Osti F, et al. **Haematologica** 1997 Jul-Aug; 82(4):395-401

Substitution and deletion mutations induced by 2-hydroxyadenine in Escherichia coli: effects of sequence contexts in leading and lagging strands. Kamiya H, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):304-11

PHYSIOLOGY

Visualization of vortex shedding at the proximal side-to-end artery-graft anastomosis. Hughes PE, et al. **Biorheology** 1996 Jul-Oct;33(4-5):305-17

RADIATION EFFECTS

Mechlorethamine-induced enhancement of radiation sensitivity of guanine. Vaishnav YN, et al. **Int J Radiat Biol** 1996 Dec;70(6):735-45

GUANINE AMINASE see **GUANINE DEAMINASE**

GUANINE AMINOHYDROLASE see **GUANINE DEAMINASE**

GUANINE DEAMINASE

BLOOD

Simultaneous assay for aspartate aminotransferase and guanase in human serum by high-performance liquid chromatography. Carunchio V, et al. **J Chromatogr B Biomed Appl** 1997 Feb 21;689(2):305-11

METABOLISM

Activity of the enzymes participating in purine metabolism of cancerous and noncancerous human kidney tissues. Durak I, et al. **Cancer Invest** 1997;15(3):212-6

GUANINE NUCLEOTIDE REGULATORY PROTEINS see **GTP-BINDING PROTEINS**

GUANINE NUCLEOTIDES

ANALYSIS

Sample preparation for the determination of purine nucleotide analogues in tissues. Boulieu R. **J Chromatogr A** 1996 Apr 5;729(1-2):197-200

[Practical use of luminogenic reagents specific for guanine-containing compounds] Kai M. **Tanpakushitsu Kakusan Koso** 1997 Apr;42(5):777-83 (16 ref.) **(Jpn)**

BLOOD

Possibilities for therapeutic drug monitoring of azathioprine: 6-thioguanine nucleotide concentrations and thiopurine methyltransferase activity in red blood cells. Bergan S, et al. **Ther Drug Monit** 1997 Jun;19(3):318-26

Pharmacokinetics of mercaptopurine: plasma drug and red cell metabolite concentrations after an oral dose. Welch J, et al. **Ther Drug Monit** 1997 Aug;19(4):382-5

CHEMISTRY

Characterisation of the pterin molybdenum cofactor in dimethylsulfoxide reductase of Rhodobacter capsulatus. Solomon PS, et al. **Eur J Biochem** 1997 May 15; 246(1):200-3

METABOLISM

Inosine monophosphate dehydrogenase expression: transcriptional regulation of the type I and type II genes. Zimmermann A, et al. **Adv Enzyme Regul** 1996;36:75-84 (26 ref.)

Tight links between adenine and guanine nucleotide pools in mouse pancreatic islets: a study with mycophenolic acid. Detimary P, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):467-71

Guanine nucleotide binding properties of Rac2 mutant proteins and analysis of the responsiveness to guanine nucleotide dissociation stimulator. Xu X, et al. **Biochemistry** 1997 Jan 21;36(3):626-32

Regulation by guanine nucleotides and cations of melatonin binding sites in the goldfish brain. Iigo M, et al. **Biol Signals** 1997 Jan-Feb;6(1):29-39

Bending of DNA by the mitomycin C-induced, GpG intrastrand cross-link. Rink SM, et al. **Chem Res Toxicol** 1996 Mar;9(2):382-9

Epoxyeicosatrienoic acids activate K+ channels in coronary smooth muscle through a guanine nucleotide binding protein. Li PL, et al. **Circ Res** 1997 Jun;80(6):877-84

Interaction of G protein Gbetagamma dimers with small GTP-binding proteins of the Rho family. Harhammer R, et al. **FEBS Lett** 1996 Dec 16;399(3):211-4

Conserved histidine residues of RCC1 are essential for nucleotide exchange on Ran. Azuma Y, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):82-91

The GTPase-activating protein RGS4 stabilizes the transition state for nucleotide hydrolysis. Berman DM, et al. **J Biol Chem** 1996 Nov 1;271(44):27209-12

Equilibrium and kinetic study of the conformational transition toward the active state of p21Ha-ras, induced by the binding of BeF3- to the GDP-bound state, in the absence of GTPase-activating proteins. Díaz JF, et al. **J Biol Chem** 1997 Sep 12;272(37):23138-43

Subunit assembly and guanine nucleotide exchange activity of eukaryotic initiation factor-2B expressed in Sf9 cells. Fabian JR, et al. **J Biol Chem** 1997 May 9;272(19):12359-65

Identification of a novel guanine nucleotide exchange factor for the Rho GTPase. Hart MJ, et al. **J Biol Chem** 1996 Oct 11;271(41):25452-8

Biotin sulfoxide reductase. Heterologous expression and characterization of a functional molybdopterin guanine dinucleotide-containing enzyme. Pollock VV, et al. **J Biol Chem** 1997 Feb 7;272(6):3355-62

Alkaline pH facilitates the exchange of guanine nucleotides: a possible mechanism for modulation of the kinetics of responses mediated by guanine nucleotide-binding proteins. Lipinsky D, et al. **J Cell Physiol** 1996 Oct;169(1):167-74

Role of guanine nucleotides as endogenous ligands of a kainic acid binding site population in the mammalian cerebellum. Migani P, et al. **J Neurochem** 1997 Apr;68(4):1648-54

Large-scale purification of Aplysia ADP-ribosylcyclase and measurement of its activity by fluorimetric assay. Lee HC, et al. **Methods Enzymol** 1997;280:331-40

Involvement of the narJ and mob gene products in distinct steps in the biosynthesis of the molybdoenzyme nitrate reductase in Escherichia coli. Palmer T, et al. **Mol Microbiol** 1996 May;20(4):875-84

[Chemical modification of RNAse from Bacillus intermedius. Effect on the cytotoxic properties of the enzyme] Kurinenko BM, et al. **Antibiot Khimioter** 1996;41(7-8):9-12 (Eng. Abstr.) **(Rus)**

GUANINE NUCLEOTIDES

PHARMACOLOGY

Modulation of sperm acrosomal exocytosis by guanyl nucleotides and G-protein-modifier agents. Brandelli A. **Biochem Mol Biol Int** 1997 May;41(6):1217-25

Human leukemia K562 cells: induction to erythroid differentiation by guanine, guanosine and guanine nucleotides. Osti F, et al. **Haematologica** 1997 Jul-Aug; 82(4):395-401

Solubilization of high-affinity, guanine nucleotide-sensitive mu-opioid receptors from rat brain membranes. Weems HB, et al. **J Neurochem** 1996 Mar;66(3):1042-50

Age-related changes in carboxyl methylation of proteins in the kidney. Pelletier J, et al. **Mech Ageing Dev** 1996 Feb 24;86(2):115-35

Interaction of [3H]orphanin FQ and 125I-Tyr14-orphanin FQ with the orphanin FQ receptor: kinetics and modulation by cations and guanine nucleotides. Ardati A, et al. **Mol Pharmacol** 1997 May;51(5):816-24

Membrane localization and guanine nucleotide sensitivity of medullary I1-imidazoline binding sites. Ernsberger P, et al. **Neurochem Int** 1997 Jan;30(1):17-23

Differential regulation of melatonin receptors in sheep, chicken and lizard brains by cholera and pertussis toxins and guanine nucleotides. Morgan PJ, et al. **Neurochem Int** 1996 Mar;28(3):259-69

Effect of guanine nucleotides on [3H]glutamate binding and on adenylate cyclase activity in rat brain membranes. Rubin MA, et al. **Neurochem Res** 1997 Feb;22(2):181-7

Correlation between guanine nucleotide effect and reversible binding property of endothelin analogs. Nambi P, et al. **Neuropeptides** 1996 Feb;30(1):109-14

Characterisation of the interaction between guanyl nucleotides and AMPA receptors in rat brain. Dev KK, et al. **Neuropharmacology** 1996;35(11):1583-93

PHYSIOLOGY

Guanine nucleotide regulation and cation sensitivity of agonist binding to rat brain oxytocin receptors. Flanagan-Cato LM, et al. **Brain Res** 1995 Dec 1; 701(1-2):75-80

GUANINE PHOSPHORIBOSYLTRANSFERASE see **HYPOXANTHINE PHOSPHORIBOSYLTRANSFERASE**

GUANINE POLYNUCLEOTIDES see **POLY G**

GUANOSINE

Miscoding properties of isoguanine (2-oxoadenine) studied in an AMV reverse transcriptase in vitro system. Bukowska AM, et al. **Acta Biochim Pol** 1996;43(1):247-54

Solution structure of two mismatches G.G and I.I in the K-ras gene context by nuclear magnetic resonance and molecular dynamics. Faibis V, et al. **Biochemistry** 1996 Nov 19;35(46):14452-64

Long-range sequence analysis in Xq28: thirteen known and six candidate genes in 219.4 kb of high GC DNA between the RCP/GCP and G6PD loci. Chen EY, et al. **Hum Mol Genet** 1996 May;5(5):659-68

Functional effects of mutating the closing GxA base-pair of a conserved hairpin loop in 23 S ribosomal RNA. Xu W, et al. **J Mol Biol** 1996 Dec 6;264(3):407-11

Formation of a G-tetrad and higher order structures correlates with biological activity of the RelA (NF-kappaB p65) 'antisense' oligodeoxynucleotide. Benimetskaya L, et al. **Nucleic Acids Res** 1997 Jul 1;25(13):2648-56

ANALOGS & DERIVATIVES

Synthetic and biological applications of tricyclic analogues of guanosine. Golankiewicz B. **Acta Biochim Pol** 1996; 43(1):53-64 (47 ref.)

Pharmacokinetics of (-)-beta-D-2-aminopurine dioxolane and (-)-beta-D-2-amino-6-chloropurine dioxolane and their antiviral metabolite (-)-beta-D-dioxolane guanine in rhesus monkeys. Chen H, et al. **Antimicrob Agents Chemother** 1996 Oct;40(10):2332-6

Biotransformation and pharmacokinetics of prodrug 9-(beta-D-1,3-dioxolan-4-yl)-2-aminopurine and its antiviral metabolite 9-(beta-D-1,3-dioxolan-4-yl)guanine in mice. Manouilov KK, et al. **Antiviral Res** 1997 Aug; 35(3):187-93

Continuous monitoring of Pi release following nucleotide hydrolysis in actin or tubulin assembly using 2-amino-6-mercapto-7-methylpurine ribonucleoside and purine-nucleoside phosphorylase as an enzyme-linked assay. Melki R, et al. **Biochemistry** 1996 Sep 17; 35(37):12038-45

Analysis of 1,N2-ethenoguanine and 5,6,7,9-tetrahydro-7-hydroxy-9-oxoimidazo[1,2-a]purine in DNA treated with 2-chlorooxirane by high performance liquid chromatography/electrospray mass spectrometry and comparison of amounts to other DNA adducts. Müller M, et al. **Chem Res Toxicol** 1997 Feb;10(2):242-7

Analysis of yeast trimethylguanosine-capped RNAs by midwestern blotting. Rasmussen TP, et al. **Gene** 1996 Dec 5;182(1-2):89-96

Replication across O6-methylguanine by human DNA polymerase beta in vitro. Insights into the futile cytotoxic repair and mutagenesis of O6-methylguanine. Singh J, et al. **J Biol Chem** 1996 Nov 8;271(45):28391-8

Biosynthesis of archaeosine, a novel derivative of 7-deazaguanosine specific to archaeal tRNA, proceeds via a pathway involving base replacement on the tRNA polynucleotide chain. Watanabe M, et al. **J Biol Chem** 1997 Aug 8;272(32):20146-51

High-performance liquid chromatographic determination of (-)-beta-D-2-aminopurine dioxolane and (-)-beta-D-2-amino-6-chloropurine dioxolane, and their metabolite (-)-beta-D-dioxolane guanine in monkey serum, urine and cerebrospinal fluid. Chen H, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11;691(2):425-32

O6-(alkyl/aralkyl)guanosine and 2'-deoxyguanosine derivatives: synthesis and ability to enhance chloroethylnitrosourea antitumor action. Mounetou E, et al. **J Med Chem** 1997 Aug 29;40(18):2902-9

Three modified nucleosides present in the anticodon stem and loop influence the in vivo aa-tRNA selection in a tRNA-dependent manner. Li J, et al. **J Mol Biol** 1997 Aug 15;271(2):209-21

Structural requirements for the formation of 1-methylguanosine in vivo in tRNA(Pro)GGG of Salmonella typhimurium. Qian Q, et al. **J Mol Biol** 1997 Feb 21;266(2):283-96

New perspectives on the approach to chronic lymphocytic leukemia. Goodman MG, et al. **Leuk Lymphoma** 1996 Jun; 22(1-2):1-10 (51 ref.)

Immunochemical, 32P-postlabeling, and GC/MS detection of 4-aminobiphenyl-DNA adducts in human peripheral lung in relation to metabolic activation pathways involving pulmonary N-oxidation, conjugation, and peroxidation. Culp SJ, et al. **Mutat Res** 1997 Aug 1;378(1-2):97-112

In vitro selection of a 7-methyl-guanosine binding RNA that inhibits translation of capped mRNA molecules. Haller AA, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5; 94(16):8521-6

[Monoclonal antibodies to 8-oxo-2'-deoxyguanosine (8-hydroxyguanosine). Characteristics and use for determining DNA damage by active forms of oxygen] Bruskov VI, et al. **Biokhimiia** 1996 Apr;61(4):737-44 (Eng. Abstr.) **(Rus)**

CHEMICAL SYNTHESIS

Synthetic and biological applications of tricyclic analogues of guanosine. Golankiewicz B. **Acta Biochim Pol** 1996; 43(1):53-64 (47 ref.)

A novel strategy for O6-protection of guanosine. Kumar P, et al. **Nucleic Acids Symp Ser** 1995;(34):51-2

CHEMISTRY

Structure and mechanism of formation of a new adduct from formaldehyde and guanosine. Kennedy G, et al. **Chem Biol Interact** 1996 Oct 21;102(2):93-100

Mechanisms of formation of adducts from reactions of glycidaldehyde with 2'-deoxyguanosine and/or guanosine. Golding BT, et al. **Chem Res Toxicol** 1996 Jan-Feb; 9(1):147-57

Synthesis and biochemical characterization of N1-, N2-, and N7-guanosine adducts of butadiene monoxide. Selzer RR, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):126-32

A novel strategy for O6-protection of guanosine. Kumar P, et al. **Nucleic Acids Symp Ser** 1995;(34):51-2

Defining GC-specificity in the minor groove: side-by-side binding of the di-imidazole lexitropsin to C-A-T-G-G-C-C-A-T-G. Kopka ML, et al. **Structure** 1997 Aug 15;5(8):1033-46

GENETICS

Specific guanylation of Lupinus luteus 5S rRNA at its 3' end in HeLa cell extract. Wyszko E, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1221-7

METABOLISM

Crithidia luciliae: regulation of purine nucleoside transport by extracellular purine concentrations. Hall ST, et al. **Exp Parasitol** 1996 Aug;83(3):314-21

Stimulated transport of adenosine, guanosine and hypoxanthine in Crithidia luciliae: metabolic machinery in which the parasite has a distinct advantage over the host. Gero AM, et al. **Int J Parasitol** 1997 Feb;27(2):241-9

Characterization of a novel Na+-dependent, guanosine-specific, nitrobenzylthioinosine-sensitive transporter in acute promyelocytic leukemia cells. Flanagan SA, et al. **J Biol Chem** 1997 Jul 18;272(29):18026-32

Conserved thermochemistry of guanosine nucleophile binding for structurally distinct group I ribozymes. Kuo LY, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3722-7

PHARMACOLOGY

Human leukemia K562 cells: induction to erythroid differentiation by guanine, guanosine and guanine nucleotides. Osti F, et al. **Haematologica** 1997 Jul-Aug; 82(4):395-401

Neurite outgrowth in PC12 cells is enhanced by guanosine through both cAMP-dependent and -independent mechanisms. Gysbers JW, et al. **Neurosci Lett** 1996 Dec 20;220(3):175-8

THERAPEUTIC USE

Enhanced anti-tumour effects of acriflavine in combination with guanosine in mice. Kim SG, et al. **J Pharm Pharmacol** 1997 Feb;49(2):216-22

TOXICITY

O6-(alkyl/aralkyl)guanosine and 2'-deoxyguanosine derivatives: synthesis and ability to enhance chloroethylnitrosourea antitumor action. Mounetou E, et al. **J Med Chem** 1997 Aug 29;40(18):2902-9

GUANOSINE CYCLIC MONOPHOSPHATE-DEPENDENT PROTEIN KINASES see **CYCLIC GMP-DEPENDENT PROTEIN KINASES**

GUANOSINE CYCLIC 3',5'-MONOPHOSPHATE see **CYCLIC GMP**

GUANOSINE DIPHOSPHATE

ANALOGS & DERIVATIVES

A guanine nucleotide-independent inwardly rectifying cation permeability is associated with P2Y1 receptor expression in Xenopus oocytes. O'Grady SM, et al. **J Biol Chem** 1996 Nov 15;271(46):29080-7

Latencies of calcium elevation and depolarization in Limulus ventral photoreceptors injected with GDP-beta S. Payne R, et al. **J Photochem Photobiol B** 1996 Aug;35(1-2):91-5

Sensitization of C-fibres by prostaglandin E2 in the rat is inhibited by guanosine 5'-O-(2-thiodiphosphate), 2',5'-dideoxyadenosine and Walsh inhibitor peptide. Wang JF, et al. **Neuroscience** 1996 Mar;71(1):259-63

CHEMISTRY

Characterization of the structural difference between active and inactive forms of the Ras protein by chemical modification followed by mass spectrometric peptide mapping. Akashi S, et al. **Anal Biochem** 1997 May 15; 248(1):15-25

Crystal structure of RhoA-GDP and its functional implications [letter] Wei Y, et al. **Nat Struct Biol** 1997 Sep; 4(9):699-703

Rab7: crystallization of intact and C-terminal truncated constructs complexed with GDP and GppNHp. Brachvogel V, et al. **Proteins** 1997 Feb;27(2):210-2

Calculation of pathways for the conformational transition between the GTP- and GDP-bound states of the Ha-ras-p21 protein: calculations with explicit solvent simulations and comparison with calculations in vacuum. Diaz JF, et al. **Proteins** 1997 Jul;28(3):434-51

Structural constraints on the complex of elongation factor Tu with magnesium guanosine diphosphate from rotational-echo double-resonance NMR. McDowell LM, et al. **Solid State Nucl Magn Reson** 1996 Dec;7(3):203-10

An alpha to beta conformational switch in EF-Tu. Abel K, et al. **Structure** 1996 Oct 15;4(10):1153-9

Structure of the GDP-Pi complex of Gly203—>Ala gialpha1: a mimic of the ternary product complex of galpha-catalyzed GTP hydrolysis. Berghuis AM, et al. **Structure** 1996 Nov 15;4(11):1277-90

The structure of elongation factor G in complex with GDP: conformational flexibility and nucleotide exchange. al-Karadaghi S, et al. **Structure** 1996 May 15;4(5):555-65

Helix unwinding in the effector region of elongation factor EF-Tu-GDP. Polekhina G, et al. **Structure** 1996 Oct 15; 4(10):1141-51

METABOLISM

N-terminal hydrophobic residues of the G-protein ADP-ribosylation factor-1 insert into membrane phospholipids upon GDP to GTP exchange. Antonny B, et al. **Biochemistry** 1997 Apr 15;36(15):4675-84

High frequency (139.5 GHz) electron paramagnetic resonance characterization of Mn(II)-H2(17)O interactions in GDP and GTP forms of p21 ras. Bellew BF, et al. **Biochemistry** 1996 Sep 17;35(37):12186-93

5'-RNA self-capping from guanosine diphosphate. Huang F, et al. **Biochemistry** 1997 Jun 3;36(22):6557-63

Zinc attenuation of GDP binding to brown adipocytes mitochondria in genetically obese (ob/ob) mice. Chen MD, et al. **Biol Trace Elem Res** 1997 May;57(2):139-45

Structural intermediates in the assembly of taxoid-induced microtubules and GDP-tubulin double rings: time-resolved X-ray scattering. Diaz JF, et al. **Biophys J** 1996 May; 70(5):2408-20

Cocrystal structure of the messenger RNA 5' cap-binding protein (eIF4E) bound to 7-methyl-GDP. Marcotrigiano J, et al. **Cell** 1997 Jun 13;89(6):951-61

GTP binding to Gs does not promote subunit dissociation. Basi NS, et al. **Cell Signal** 1996 Mar;8(3):209-15

The GDP/GTP cycle of Rab5 in the regulation of endocytotic membrane traffic. Vitale G, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:211-20

Identification of different roles for RanGDP and RanGTP in nuclear protein import. Görlich D, et al. **EMBO J** 1996 Oct 15;15(20):5584-94

Evidence for the formation of an unusual ternary complex of rabbit liver EF-1alpha with GDP and deacylated tRNA. Petrushenko ZM, et al. **FEBS Lett** 1997 Apr 21;407(1):13-7

Expression, purification and characterization of recombinant phosphomannomutase and GDP-alpha-D-mannose

pyrophosphorylase from Salmonella enterica, group B, for the synthesis of GDP-alpha-D-mannose from D-mannose. Elling L, et al. **Glycobiology** 1996 Sep;6(6):591-7

Modulation of GDP release from transducin by the conserved Glu134-Arg135 sequence in rhodopsin. Acharya S, et al. **J Biol Chem** 1996 Oct 11;271(41):25406-11

Characterization of Ral GDP dissociation stimulator-like (RGL) activities to regulate c-fos promoter and the GDP/GTP exchange of Ral. Murai H, et al. **J Biol Chem** 1997 Apr 18;272(16):10483-90

Characterization of a GDP dissociation inhibitory region of ADP-ribosylation factor domain protein ARD1. Vitale N, et al. **J Biol Chem** 1997 Oct 3;272(40):25077-82

Phosphatidylinositol 4,5-bisphosphate provides an alternative to guanine nucleotide exchange factors by stimulating the dissociation of GDP from Cdc42Hs. Zheng Y, et al. **J Biol Chem** 1996 Sep 27;271(39):23815-9

Identification of a novel, putative Rho-specific GDP/GTP exchange factor and a RhoA-binding protein: control of neuronal morphology. Gebbink MF, et al. **J Cell Biol** 1997 Jun 30;137(7):1603-13

Inhibition of the GDP/GTP exchange reaction of ras p21 by aluminum ion. Landino LM, et al. **J Inorg Biochem** 1997 May 1;66(2):99-102

Receptor-independent activation of cardiac adenylyl cyclase by GDP and membrane-associated nucleoside diphosphate kinase. A new cardiotonic mechanism? Niroomand F, et al. **J Mol Cell Cardiol** 1997 May;29(5):1479-86

Affinity selection-amplification from randomized ribooligonucleotide pools. Ciesiolka J, et al. **Methods Enzymol** 1996;267:315-35

C-terminal binding domain of Rho GDP-dissociation inhibitor directs N-terminal inhibitory peptide to GTPases. Gosser YQ, et al. **Nature** 1997 Jun 19;387(6635):814-9

Kinetochores distinguish GTP from GDP forms of the microtubule lattice. Severin FF, et al. **Nature** 1997 Aug 28;388(6645):888-91

RhoGDIgamma: a GDP-dissociation inhibitor for Rho proteins with preferential expression in brain and pancreas. Adra CN, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4279-84

Conditional activation defect of a human Gsalpha mutant. Iiri T, et al. **Proc Natl Acad Sci U S A** 1997 May 27; 94(11):5656-61

Nucleotide-specific interaction of Ran/TC4 with nuclear transport factors NTF2 and p97. Paschal BM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7679-83

Comparison of ras-p21 bound to GDP and GTP: differences in protein and ligand dynamics. Mello LV, et al. **Protein Eng** 1997 Apr;10(4):381-7

Effects of swimming training on brown-adipose-tissue activity in obese ob/ob mice: GDP binding and UCP m-RNA expression. Ueno N, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan;95(1):92-104

Electrostatic control of GTP and GDP binding in the oncoprotein p21ras. Muegge I, et al. **Structure** 1996 Apr 15;4(4):475-89

PHARMACOLOGY

Conditions allowing different states of ATP- and GDP-induced permeability in mitochondria from different strains of Saccharomyces cerevisiae. Roucou X, et al. **Biochim Biophys Acta** 1997 Feb 21;1324(1):120-32

Inhibition of the mitochondrial KATP channel by long-chain acyl-CoA esters and activation by guanine nucleotides. Paucek P, et al. **J Biol Chem** 1996 Dec 13;271(50):32084-8

A9 fibroblasts transfected with the m3 muscarinic receptor clone express a Ca2+ channel activated by carbachol, GTP and GDP. Singer-Lahat D, et al. **J Membr Biol** 1997 Sep 1;159(1):21-8

GUANOSINE DIPHOSPHATE FUCOSE

ANALOGS & DERIVATIVES

Convenient chemoenzymatic synthesis of beta-purine-diphosphate sugars (GDP-fucose-analogues). Baisch G, et al. **Bioorg Med Chem** 1997 Feb;5(2):383-91

BIOSYNTHESIS

The nodulation gene nolK of Azorhizobium caulinodans is involved in the formation of GDP-fucose from GDP-mannose. Mergaert P, et al. **FEBS Lett** 1997 Jun 9;409(2):312-6

The MUR1 gene of Arabidopsis thaliana encodes an isoform of GDP-D-mannose-4,6-dehydratase, catalyzing the first step in the de novo synthesis of GDP-L-fucose. Bonin CP, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4; 94(5):2085-90

METABOLISM

Synthesis of GDP-L-fucose by the human FX protein. Tonetti M, et al. **J Biol Chem** 1996 Nov 1;271(44):27274-9

GUANOSINE DIPHOSPHATE MANNOSE

BIOSYNTHESIS

The nodulation gene nolK of Azorhizobium caulinodans is involved in the formation of GDP-fucose from GDP-mannose. Mergaert P, et al. **FEBS Lett** 1997 Jun 9;409(2):312-6

Expression, purification and characterization of recombinant phosphomannomutase and GDP-alpha-D-mannose pyrophosphorylase from Salmonella enterica, group B, for the synthesis of GDP-alpha-D-mannose from D-mannose. Elling L, et al. **Glycobiology** 1996 Sep;6(6):591-7

METABOLISM

Golgi GDP-mannose uptake requires Leishmania LPG2. A member of a eukaryotic family of putative nucleotide-sugar transporters. Ma D, et al. **J Biol Chem** 1997 Feb 7; 272(6):3799-805

GUANOSINE DIPHOSPHATE SUGARS

CHEMICAL SYNTHESIS

Synthesis and utilization of GDP-D-arabinopyranoside. Park S, et al. **Anal Biochem** 1997 Jan 15;244(2):321-7

METABOLISM

Mechanism of cyclization of pyridine nucleotides by bovine spleen NAD+ glycohydrolase. Muller-Steffner HM, et al. **J Biol Chem** 1996 Sep 27;271(39):23967-72

GUANOSINE DIPHOSPHOFUCOSE see **GUANOSINE DIPHOSPHATE FUCOSE**

GUANOSINE DIPHOSPHOMANNOSE see **GUANOSINE DIPHOSPHATE MANNOSE**

GUANOSINE MONOPHOSPHATE see **5'-GUANYLIC ACID**

GUANOSINE 5'-MONOPHOSPHATE see **5'-GUANYLIC ACID**

GUANOSINE PENTAPHOSPHATE

METABOLISM

Guanosine tetra- and pentaphosphate promote accumulation of inorganic polyphosphate in Escherichia coli. Kuroda A, et al. **J Biol Chem** 1997 Aug 22;272(34):21240-3

GUANOSINE PHOSPHATES see **GUANINE NUCLEOTIDES**

GUANOSINE PYROPHOSPHATE MANNOSE see **GUANOSINE DIPHOSPHATE MANNOSE**

GUANOSINE TETRAPHOSPHATE

BIOSYNTHESIS

The ppGpp synthetase gene (relA) of Streptomyces coelicolor A3(2) plays a conditional role in antibiotic production and morphological differentiation. Chakraburtty R, et al. **J Bacteriol** 1997 Sep;179(18):5854-61

METABOLISM

Guanosine 3',5'-bis(diphosphate) (ppGpp)-dependent inhibition of transcription from stringently controlled Escherichia coli promoters can be explained by an altered initiation pathway that traps RNA polymerase. Heinemann M, et al. **Eur J Biochem** 1997 Aug 1;247(3):990-9

Characterization of the stringent and relaxed responses of Streptococcus equisimilis. Mechold U, et al. **J Bacteriol** 1997 Apr;179(8):2658-67

Transcriptional pausing of RNA polymerase in the presence of guanosine tetraphosphate depends on the promoter and gene sequence. Krohn M, et al. **J Biol Chem** 1996 Sep 27; 271(39):23884-94

Guanosine tetra- and pentaphosphate promote accumulation of inorganic polyphosphate in Escherichia coli. Kuroda A, et al. **J Biol Chem** 1997 Aug 22;272(34):21240-3

The effect of the stringent response on mutation rates in Escherichia coli K-12. Wright BE. **Mol Microbiol** 1996 Jan;19(2):213-9

PHYSIOLOGY

Roles of RpoS (sigmaS), IHF and ppGpp in the expression of the hmp gene encoding the flavohemoglobin (Hmp) of Escherichia coli K-12. Membrillo-Hernandez J, et al. **Mol Gen Genet** 1997 May 20;254(5):599-603

GUANOSINE TRIPHOSPHATE

ANALOGS & DERIVATIVES

Assembly of microtubules from tubulin bearing the nonhydrolyzable guanosine triphosphate analogue GMPPCP [guanylyl 5'-(beta, gamma-methylenediphosphonate)]: variability of growth rates and the hydrolysis of GTP. Dye RB, et al. **Biochemistry** 1996 Nov 12;35(45):14331-9

Relationship between specific binding of 125I-omega-conotoxin GVIA and GTP binding protein: effects of the GTP analogues, mastoparan and AlF4-. Ichida S, et al. **Biochim Biophys Acta** 1997 Apr 26; 1325(2):215-25

Isolation, crystallization and X-ray analysis of the quaternary complex of Phe-tRNA(Phe), EF-Tu, a GTP analog and kirromycin. Kristensen O, et al. **FEBS Lett** 1996 Dec 9; 399(1-2):59-62

Acrosome reaction stimulated by the GTP non-hydrolizable analogue GTP gamma S is blocked by phospholipase A2 inhibitors in human spermatozoa. Dominguez L, et al. **Int J Androl** 1996 Aug;19(4):248-52

Nonhydrolyzable analogues of GTP activate a new Na+ current in a rat mast cell line. Parekh AB. **J Biol Chem** 1996 Sep 20;271(38):23161-8

The path of mRNA through the bacterial ribosome: a site-directed crosslinking study using new photoreactive derivatives of guanosine and uridine. Sergiev PV, et al. **RNA** 1997 May;3(5):464-75

MutT prevents leakiness [comment] Bridges BA. **Science** 1997 Oct 3;278(5335):78-9. Comment on: Science 1997 Oct 3;278(5335):128-30.

Counteraction by MutT protein of transcriptional errors caused by oxidative damage [see comments] Taddei F, et al. **Science** 1997 Oct 3;278(5335):128-30. Comment in: Science 1997 Oct 3;278(5335):78-9.

ANALYSIS

Assay of soluble guanylate cyclase activity by isocratic high-performance liquid chromatography. Pietta PG, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1-2):343-7

BIOSYNTHESIS

Characterization of membrane-associated Pseudomonas aeruginosa Ras-like protein Pra, a GTP-binding protein that forms complexes with truncated nucleoside diphosphate kinase and pyruvate kinase to modulate GTP synthesis. Chopade BA, et al. **J Bacteriol** 1997 Apr; 179(7):2181-8

Complex formation of the elongation factor Tu from Pseudomonas aeruginosa with nucleoside diphosphate kinase modulates ribosomal GTP synthesis and peptide chain elongation. Mukhopadhyay S, et al. **J Biol Chem** 1997 Jul 11;272(28):17815-20

CHEMICAL SYNTHESIS

Synthesis of a fluorescent 7-methylguanosine analog and a fluorescence spectroscopic study of its reaction with wheatgerm cap binding proteins. Ren J, et al. **Nucleic Acids Res** 1996 Sep 15;24(18):3629-34

CHEMISTRY

Regional polysterism in the GTP-bound form of the human c-Ha-Ras protein. Ito Y, et al. **Biochemistry** 1997 Jul 29; 36(30):9109-19

Effects of GTP on bound nitric oxide of soluble guanylate cyclase probed by resonance Raman spectroscopy. Tomita T, et al. **Biochemistry** 1997 Aug 19;36(33):10155-60

The ternary complex of aminoacylated tRNA and EF-Tu-GTP. Recognition of a bond and a fold. Nissen P, et al. **Biochimie** 1996;78(11-12):921-33 (62 ref.)

Calculation of pathways for the conformational transition between the GTP- and GDP-bound states of the Ha-ras-p21 protein: calculations with explicit solvent simulations and comparison with calculations in vacuum. Diaz JF, et al. **Proteins** 1997 Jul;28(3):434-51

DEFICIENCY

Inhibition of calcium-induced insulin secretion from intact HIT-T15 or INS-1 beta cells by GTP depletion. Meredith M, et al. **Biochem Pharmacol** 1997 Jun 15;53(12):1873-82

GENETICS

GTP hydrolysis controls stringent selection of the AUG start codon during translation initiation in Saccharomyces cerevisiae. Huang HK, et al. **Genes Dev** 1997 Sep 15; 11(18):2396-413

METABOLISM

Specific coupling of a cation-sensing receptor to G protein alpha-subunits in MDCK cells. Arthur JM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F129-35

Tiazofurin: molecular and clinical action. Weber G, et al. **Anticancer Res** 1996 Nov-Dec;16(6A):3313-22

1 alpha,25-(OH)2-vitamin D3 stimulates the adenylyl cyclase pathway in muscle cells by a GTP-dependent mechanism which presumably involves phosphorylation of G alpha i. Vazquez G, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):125-8

Elongation factor Tu, a GTPase triggered by codon recognition on the ribosome: mechanism and GTP consumption. Rodnina MV, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11-12):1221-7 (42 ref.)

Measurement of agonist-induced guanine nucleotide turnover by the G-protein Gi1alpha when constrained within an alpha2A-adrenoceptor-Gi1alpha fusion protein. Wise A, et al. **Biochem J** 1997 Jul 1;325 (Pt 1):17-21

N-terminal hydrophobic residues of the G-protein ADP-ribosylation factor-1 insert into membrane phospholipids upon GDP to GTP exchange. Antonny B, et al. **Biochemistry** 1997 Apr 15;36(15):4675-84

High frequency (139.5 GHz) electron paramagnetic

resonance characterization of Mn(II)-H2(17)O interactions in GDP and GTP forms of p21 ras. Bellew BF, et al. **Biochemistry** 1996 Sep 17;35(37):12186–93

Identification of a peptide of the guanosine triphosphate binding site within brain glutamate dehydrogenase isoproteins using 8-azidoguanosine triphosphate. Cho SW, et al. **Biochemistry** 1996 Nov 5;35(44):13907–13

High frequency (139.5 GHz) electron paramagnetic resonance spectroscopy of the GTP form of p21 ras with selective 17O labeling of threonine. Halkides CJ, et al. **Biochemistry** 1996 Sep 17;35(37):12194–2200

The core domain of the tissue transglutaminase Gh hydrolyzes GTP and ATP. Iismaa SE, et al. **Biochemistry** 1997 Sep 30;36(39):11655–64

Continuous monitoring of Pi release following nucleotide hydrolysis in actin or tubulin assembly using 2-amino-6-mercapto-7-methylpurine ribonucleoside and purine-nucleoside phosphorylase as an enzyme-linked assay. Melki R, et al. **Biochemistry** 1996 Sep 17; 35(37):12038–45

The hinge region of Escherichia coli ribosomal protein L7/L12 is required for factor binding and GTP hydrolysis. Dey D, et al. **Biochimie** 1995;77(12):925–30

The site for GTP hydrolysis on the archaeal elongation factor 2 is unmasked by aliphatic alcohols. Raimo G, et al. **Biochimie** 1996;78(10):832–7

The pathway from GTP to tetrahydrobiopterin: three-dimensional structures of GTP cyclohydrolase I and 6-pyruvoyl tetrahydropterin synthase. Auerbach G, et al. **Biol Chem** 1997 Mar-Apr;378(3-4):185–92 (39 ref.)

Mutual sensitization of ATP and GTP in driving F-actin on the surface-fixed H-meromyosin. Oda T, et al. **Biophys Chem** 1996 Oct 30;61(2-3):63–72

Hydrolysis of GTP associated with the formation of tubulin oligomers is involved in microtubule nucleation. Carlier MF, et al. **Biophys J** 1997 Jul;73(1):418–27

Modulation of cross-bridge affinity for MgGTP by Ca2+ in skinned fibers of rabbit psoas muscle. Frisbie SM, et al. **Biophys J** 1997 May;72(5):2255–61

Thermodynamic and structural analysis of microtubule assembly: the role of GTP hydrolysis. Vulevic B, et al. **Biophys J** 1997 Mar;72(3):1357–75

Effects of the wasp venom peptide, mastoparan, on GTP hydrolysis in rat brain membranes. Odagaki Y, et al. **Br J Pharmacol** 1997 Aug;121(7):1406–12

Phytohemagglutinin-L (PHA-L) lectin surface binding of N-linked beta 1-6 carbohydrate and its relationship to activated mutant ras in human pancreatic cancer cell lines. Schwarz RE, et al. **Cancer Lett** 1996 Oct 22;107(2):285–91

Structure of RGS4 bound to AlF4--activated G(i alpha1): stabilization of the transition state for GTP hydrolysis. Tesmer JJ, et al. **Cell** 1997 Apr 18;89(2):251–61

A decrease in the intracellular guanosine 5'-triphosphate concentration is necessary for granulocytic differentiation of HL-60 cells, but growth cessation and differentiation are not associated with a change in the activation state of Ras, the transforming principle of HL-60 cells. Pilz RB, et al. **Cell Growth Differ** 1997 Jan;8(1):53–9

GTP binding to Gs does not promote subunit dissociation. Basi NS, et al. **Cell Signal** 1996 Mar;8(3):209–15

The GDP/GTP cycle of Rab5 in the regulation of endocytotic membrane traffic. Vitale G, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:211–20

A novel technique for the study of Ras activity: electroporation of [alpha-32P]GTP. Brownell HL, et al. **DNA Cell Biol** 1997 Jan;16(1):103–10

Identification of different roles for RanGDP and RanGTP in nuclear protein import. Görlich D, et al. **EMBO J** 1996 Oct 15;15(20):5584–94

Reprogramming the purine nucleotide cofactor requirement of Drosophila P element transposase in vivo. Mul YM, et al. **EMBO J** 1997 Jul 16;16(14):4441–7

p619, a giant protein related to the chromosome condensation regulator RCC1, stimulates guanine nucleotide exchange on ARF1 and Rab proteins [published erratum appears in EMBO J 1996 Oct 15;15(20):5738] Rosa JL, et al. **EMBO J** 1996 Aug 15;15(16):4262–73

The GTP binding motif: variations on a theme. Kjeldgaard M, et al. **FASEB J** 1996 Oct;10(12):1347–68 (81 ref.)

A cell-density sensing factor regulates the lifetime of a chemoattractant-induced G alpha-GTP conformation. Brazill DT, et al. **FEBS Lett** 1997 Mar 3;404(1):100–4

A recombinant polypeptide model of the second predicted nucleotide binding fold of the cystic fibrosis transmembrane conductance regulator is a GTP-binding protein. Randak C, et al. **FEBS Lett** 1996 Nov 25;398(1):97–100

A novel function of the C-terminal lipid moieties of Rab3A small G protein implicated in Ca2+-dependent exocytosis--inhibition of interaction with GTP and reduction of this inhibition by phospholipid. Jin-no Y, et al. **Genes Cells** 1997 Apr;2(4):273–88

The SpoIIAA protein of Bacillus subtilis has GTP-binding properties. Najafi SM, et al. **J Bacteriol** 1996 Nov; 178(22):6632–4

Analysis of the interaction of FtsZ with itself, GTP, and FtsA. Wang X, et al. **J Bacteriol** 1997 Sep;179(17):5551–9

Calmodulin binds to and inhibits GTP binding of the ras-like GTPase Kir/Gem. Fischer R, et al. **J Biol Chem** 1996 Oct 11;271(41):25067–70

Disassembly of RanGTP-karyopherin beta complex, an intermediate in nuclear protein import. Floer M, et al. **J Biol Chem** 1997 Aug 1;272(31):19538–46

The acidic C-terminal domain of rna1p is required for the binding of Ran.GTP and for RanGAP activity. Haberland J, et al. **J Biol Chem** 1997 Sep 26;272(39):24717–26

C-terminal deletion of human tissue transglutaminase enhances magnesium-dependent GTP/ATPase activity. Lai TS, et al. **J Biol Chem** 1996 Dec 6;271(49):31191–5

Interaction sites of the COOH-terminal region of the gamma subunit of cGMP phosphodiesterase with the GTP-bound alpha subunit of transducin. Liu Y, et al. **J Biol Chem** 1996 Oct 25;271(43):26900–7

Expression of GTP-dependent and GTP-independent tissue-type transglutaminase in cytokine-treated rat brain astrocytes [published erratum appears in J Biol Chem 1997 Mar 14;272(11):7565] Monsonego A, et al. **J Biol Chem** 1997 Feb 7;272(6):3724–32

Characterization of Ral GDP dissociation stimulator-like (RGL) activities to regulate c-fos promoter and the GDP/GTP exchange of Ral. Murai H, et al. **J Biol Chem** 1997 Apr 18;272(16):10483–90

The inducibly expressed GTPase localizes to the endoplasmic reticulum, independently of GTP binding. Taylor GA, et al. **J Biol Chem** 1997 Apr 18;272(16):10639–45

Interaction of the GTP-binding and GTPase-activating domains of ARD1 involves the effector region of the ADP-ribosylation factor domain. Vitale N, et al. **J Biol Chem** 1997 Feb 14;272(7):3897–904

Identification of a novel, putative Rho-specific GDP/GTP exchange factor and a RhoA-binding protein: control of neuronal morphology. Gebbink MF, et al. **J Cell Biol** 1997 Jun 30;137(7):1603–13

Dynamic properties of nucleated microtubules: GTP utilisation in the subcritical concentration regime. Symmons MF, et al. **J Cell Sci** 1996 Nov;109 (Pt 11):2755–66

Roles of GTP and phospholipase C in the potentiation of Ca(2+)-induced insulin secretion by glucose in rat pancreatic islets. Vadakekalam J, et al. **J Endocrinol** 1997 Apr;153(1):61–71

Inhibition of the GDP/GTP exchange reaction of ras p21 by aluminum ion. Landino LM, et al. **J Inorg Biochem** 1997 May 1;66(2):99–102

Characterization of the interaction between the restriction endonuclease McrBC from E. coli and its cofactor GTP. Pieper U, et al. **J Mol Biol** 1997 Sep 19;272(2):190–9

The role of the metal ion in the p21ras catalysed GTP-hydrolysis: Mn2+ versus Mg2+. Schweins T, et al. **J Mol Biol** 1997 Mar 7;266(4):847–56

Importance of the Rab3a-GTP binding domain for the intracellular stability and function of Rabphilin3a in secretion. Chung SH, et al. **J Neurochem** 1997 Jul; 69(1):164–73

Guanine nucleotide regulatory proteins, Gq and Gi1/2, mediate platelet-activating factor-stimulated phosphoinositide metabolism in immortalized hippocampal cells. Shi LC, et al. **J Neurochem** 1996 Oct;67(4):1478–84

The effects of ribavirin on the GTP level and the VIP receptor dynamic of human IGR39 cells. Fouchier F, et al. **J Recept Signal Transduct Res** 1996 Jan-Mar; 16(1-2):39–58

A novel 39-kilodalton membrane protein binds GTP in polyomavirus-transformed cells. Bauer PH, et al. **J Virol** 1997 May;71(5):4128–32

Mutation of lysine residues in the nucleotide binding segments of the poliovirus RNA-dependent RNA polymerase. Richards OC, et al. **J Virol** 1996 Dec;70(12):8564–70

Inhibition of brain tubulin-guanosine 5'-triphosphate interactions by mercury: similarity to observations in Alzheimer's diseased brain. Pendergrass JC, et al. **Met Ions Biol Syst** 1997;34:461–78 (35 ref.)

Enzymatic synthesis of 6R-[U-14C]tetrahydrobiopterin from [U-14C]GTP. Hoshiga M, et al. **Methods Enzymol** 1997; 281:123–9

Agonist-induced high-affinity GTP hydrolysis as an index of receptor-mediated G protein activation in mammalian brain membranes. Odagaki Y, et al. **Methods Mol Biol** 1997; 83:133–41 (15 ref.)

Enhancement by melatonin of GTP exchange and ADP ribosylation reactions. Bubis M, et al. **Mol Cell Endocrinol** 1996 Oct 30;123(2):139–48

Hydrolysis of GTP by elongation factor G drives tRNA movement on the ribosome [see comments] Rodnina MV, et al. **Nature** 1997 Jan 2;385(6611):37–41. Comment in: Nature 1997 Jan 2;385(6611):18–9.

Kinetochores distinguish GTP from GDP forms of the microtubule lattice. Severin FF, et al. **Nature** 1997 Aug 28;388(6645):888–91

Mercury vapor inhalation inhibits binding of GTP to tubulin in rat brain: similarity to a molecular lesion in Alzheimer diseased brain. Pendergrass JC, et al. **Neurotoxicology** 1997; 18(2):315–24

Activation of p21ras is not sufficient to ensure a complete G1 phase of the cell division cycle in mouse fibroblasts. Gaben AM, et al. **Oncogene** 1996 Nov 21;13(10):2113–20

Analysis of the ATP/GTP binding site of casein kinase II by site-directed mutagenesis. Jakobi R, et al. **Physiol Chem Phys Med NMR** 1995;27(4):293–301

Characterization of proteins that interact with the GTP-bound form of the regulatory GTPase Ran in Arabidopsis. Haizel T, et al. **Plant J** 1997 Jan;11(1):93–103

RGS4 and GAIP are GTPase-activating proteins for Gq alpha and block activation of phospholipase C beta by gamma-thio-GTP-Gq alpha. Hepler JR, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):428–32

Conditional activation defect of a human Gsalpha mutant. Iiri T, et al. **Proc Natl Acad Sci U S A** 1997 May 27; 94(11):5656–61

GTP-bound forms of rab6 induce the redistribution of Golgi proteins into the endoplasmic reticulum. Martinez O, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1828–33

Calexcitin: a signaling protein that binds calcium and GTP, inhibits potassium channels, and enhances membrane excitability. Nelson TJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13808–13

Nucleotide-specific interaction of Ran/TC4 with nuclear transport factors NTF2 and p97. Paschal BM, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7679–83

The regulators of G protein signaling (RGS) domains of RGS4, RGS10, and GAIP retain GTPase activating protein activity in vitro. Popov S, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7216–20

Direct and GTP-dependent interaction of ADP ribosylation factor 1 with coatomer subunit beta. Zhao L, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4418–23

Comparison of ras-p21 bound to GDP and GTP: differences in protein and ligand dynamics. Mello LV, et al. **Protein Eng** 1997 Apr;10(4):381–7

GTP synthases. Proton pumping and phosphorylation in ligand-receptor-G alpha-protein complexes. Nederkoorn PH, et al. **Receptors Channels** 1996;4(2):111–28

Requirement of guanosine triphosphate-bound ran for signal-mediated nuclear protein export [see comments] Richards SA, et al. **Science** 1997 Jun 20;276(5320):1842–4 . Comment in: Science 1997 Jun 20;276(5320):1814–6.

Role of GTP hydrolysis in fission of caveolae directly from plasma membranes [published erratum appears in Science 1996 Nov 15;274(5290):1069] Schnitzer JE, et al. **Science** 1996 Oct 11;274(5285):239–42

Electrostatic control of GTP and GDP binding in the oncoprotein p21ras. Muegge I, et al. **Structure** 1996 Apr 15;4(4):475–89

PHARMACOLOGY

Effect of irradiation on the GTP binding kinetics of chicken embryo brain plasma membranes. Takáts A, et al. **Acta Physiol Hung** 1995;83(4):343–53

GTP regulation of (-)-stepholidine binding to R(H) of D1 dopamine receptors in calf striatum. Dong ZJ, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):227–32

Reassessment of the effect of glucagon and nucleotides on Candida albicans germ tube formation. Zelada A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):567–76

Inhibition of the mitochondrial KATP channel by long-chain acyl-CoA esters and activation by guanine nucleotides. Paucek P, et al. **J Biol Chem** 1996 Dec 13;271(50):32084–8

A functional model for G protein activation of the muscarinic K+ channel in guinea pig atrial myocytes. Spectral analysis of the effect of GTP on single-channel kinetics. Hosoya Y, et al. **J Gen Physiol** 1996 Dec;108(6):485–95

Effect of adenosine and intracellular GTP on KATP channels of mammalian skeletal muscle. Barrett-Jolley R, et al. **J Membr Biol** 1996 Jul;152(2):111–6

Extracellular GTP causes membrane-potential oscillations through the parallel activation of Mg2+ and Na+ currents in Paramecium tetraurelia. Clark KD, et al. **J Membr Biol** 1997 May 15;157(2):159–67

A9 fibroblasts transfected with the m3 muscarinic receptor clone express a Ca2+ channel activated by carbachol, GTP and GDP. Singer-Lahat D, et al. **J Membr Biol** 1997 Sep 1;159(1):21–8

PHYSIOLOGY

Role for GTP in glucose-induced phospholipase C activation in pancreatic islets. Vadakekalam J, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):E85–95

Rab5 GTPase and endocytosis. Li G. **Biocell** 1996 Dec; 20(3):325–30 (37 ref.)

A novel GTP-dependent mechanism of ileal muscarinic metabotropic channel desensitization. Zholos AV, et al. **Br J Pharmacol** 1996 Nov;119(5):997–1012

Ras signalling is required for inactivation of the tumour suppressor pRb cell-cycle control protein. Mittnacht S, et al. **Curr Biol** 1997 Mar 1;7(3):219–21

In vivo and in vitro pharmacologic activity of the purine nucleoside phosphorylase inhibitor BCX-34: the role of GTP and dGTP. Bantia S, et al. **Immunopharmacology** 1996 Oct;35(1):53–63

Ca(2+)- and GTP-dependent exocytosis in mouse pancreatic beta-cells involves both common and distinct steps. Proks P, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):255–64

Glucose stimulation of insulin release without an increase in cytosolic free Ca2+ concentration: a possible involvement of GTP. Komatsu M, et al. **Jpn J Physiol** 1997;47 Suppl 1:S22–4

Membrane fusion protein synexin (annexin VII) as a Ca2+/GTP sensor in exocytotic secretion. Caohuy H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10797–802

GUANOSINE TRIPHOSPHATE PHOSPHOHYDROLASE see **GTP PHOSPHOHYDROLASE**

GUANOSINE 5'-(GAMMA-S)TRIPHOSPHATE see

GUANOSINE 5'-O-(3-THIOTRIPHOSPHATE)

GUANOSINE 5'-O-(3-THIOTRIPHOSPHATE)

ANALOGS & DERIVATIVES

Reconstitution of calcium-regulated parathyroid hormone secretion from streptolysin-O-permeabilized parathyroid cells by guanosine 5'-O-(thio)triphosphate. Matovcik LM, et al. **Endocrinology** 1997 Mar;138(3):1170-9

METABOLISM

Biochemical characteristics of a rice (Oryza sativa L., IR36) G-protein alpha-subunit expressed in Escherichia coli. Seo HS, et al. **Biochem J** 1997 May 15;324 (Pt 1):273-81

Conformational and dynamic differences between N-ras P21 bound to GTPgammaS and to GMPPNP as studied by NMR. Hu JS, et al. **Biochemistry** 1997 Apr 22; 36(16):5045-52

Pharmacological characterization of type 1alpha metabotropic glutamate receptor-stimulated [35S]-GTPgammaS binding. Akam EC, et al. **Br J Pharmacol** 1997 Jul;121(6):1203-9

Tolerance to mu-opioid agonists in human neuroblastoma SH-SY5Y cells as determined by changes in guanosine-5'-O-(3-[35S]-thio)triphosphate binding. Elliott J, et al. **Br J Pharmacol** 1997 Aug;121(7):1422-8

Pharmacological analysis of dopamine stimulation of [35S]-GTP gamma S binding via human D2short and D2long dopamine receptors expressed in recombinant cells. Gardner B, et al. **Br J Pharmacol** 1996 Jul;118(6):1544-50

The alpha2-adrenergic receptor is more effective than the galanin receptor in activating G-proteins in RINm5F beta-cell membranes. Gillison SL, et al. **Diabetes** 1997 Mar; 46(3):401-7

delta 9-Tetrahydrocannabinol is a partial agonist of cannabinoid receptors in mouse brain. Burkey TH, et al. **Eur J Pharmacol** 1997 Apr 4;323(2-3):R3-4

Sensitivity of histamine H3 receptor agonist-stimulated [35S]GTP gamma[S] binding to pertussis toxin. Clark EA, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):223-5

AM630 antagonism of cannabinoid-stimulated [35S]GTP gamma S binding in the mouse brain. Hosohata Y, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):R1-3

S 15535 and WAY 100,635 antagonise 5-HT-stimulated [35S]GTP gamma S binding at cloned human 5-HT1A receptors. Newman-Tancredi A, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):107-11

Characterisation of a cloned human 5-HT1A receptor cell line using [35S]GTP gamma S binding. Stanton JA, et al. **Eur J Pharmacol** 1997 Feb 12;320(2-3):267-75

GR127935 acts as a partial agonist at recombinant human 5-HT1D alpha and 5-HT1D beta receptors. Watson JM, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):365-72

A new function of p120-GTPase-activating protein. Prevention of the guanine nucleotide exchange factor-stimulated nucleotide exchange on the active form of Ha-ras p21. Giglione C, et al. **J Biol Chem** 1997 Oct 3;272(40):25128-34

A guanine nucleotide-independent inwardly rectifying cation permeability is associated with P2Y1 receptor expression in Xenopus oocytes. O'Grady SM, et al. **J Biol Chem** 1996 Nov 15;271(46):29080-7

Insulin stimulates guanine nucleotide exchange on Rab4 via a wortmannin-sensitive signaling pathway in rat adipocytes. Shibata H, et al. **J Biol Chem** 1997 Jun 6; 272(23):14542-6

Stimulation of guanosine 5'-O-(3-[35S] thiotriphosphate) binding by cholinergic muscarinic receptors in membranes of rat olfactory bulb. Olianas MC, et al. **J Neurochem** 1996 Dec;67(6):2549-56

Effects of chronic treatment with delta9-tetrahydrocannabinol on cannabinoid-stimulated [35S]GTPgammaS autoradiography in rat brain. Sim LJ, et al. **J Neurosci** 1996 Dec 15;16(24):8057-66

[35S]Guanosine-5'-O-(3-thio)triphosphate binding as a measure of efficacy at human recombinant dopamine D4.4 receptors: actions of antiparkinsonian and antipsychotic agents. Newman-Tancredi A, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):181-91

Activation of the cloned human kappa opioid receptor by agonists enhances [35S]GTPgammaS binding to membranes: determination of potencies and efficacies of ligands. Zhu J, et al. **J Pharmacol Exp Ther** 1997 Aug; 282(2):676-84

Pharmacological characterisation of [35S]-GTPgammaS binding to Chinese hamster ovary cell membranes stably expressing cloned human 5-HT1D receptor subtypes. Thomas DR, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar;15(1-4):199-211

Measurement of agonist-stimulated [35S]GTP gamma S binding to cell membranes. Lazareno S. **Methods Mol Biol** 1997;83:107-16 (16 ref.)

Autoradiographic visualization in brain of receptor-G protein coupling using [35S]GTP gamma S binding. Sim LJ, et al. **Methods Mol Biol** 1997;83:117-32 (40 ref.)

mu-Opioid receptor-stimulated guanosine-5'-O-(gamma-thio)-triphosphate binding in rat thalamus and cultured cell lines: signal transduction mechanisms underlying agonist efficacy. Selley DE, et al. **Mol Pharmacol** 1997 Jan;51(1):87-96

Somatostatin5 receptor-mediated [35S]guanosine-5'-O-(3-thio)triphosphate binding: agonist potencies and the influence of sodium chloride on intrinsic activity. Williams AJ, et al. **Mol Pharmacol** 1997 Jun; 51(6):1060-9

[35S]GTP gamma S binding: a tool to evaluate functional activity of a cloned opioid receptor transiently expressed in COS cells. Befort K, et al. **Neurochem Res** 1996 Nov; 21(11):1301-7

Autoradiographic characterisation of [35S]GTP gamma S binding sites in rat brain. García-Jiménez A, et al. **Neurochem Res** 1997 Aug;22(8):1055-63

How efficacious are 5-HT1B/D receptor ligands: an answer from GTP gamma S binding studies with stably transfected C6-glial cell lines. Pauwels PJ, et al. **Neuropharmacology** 1997 Apr-May;36(4-5):499-512

Identification of opioid receptor-like (ORL1) peptide-stimulated [35S]GTP gamma S binding in rat brain. Sim LJ, et al. **Neuroreport** 1996 Feb 29;7(3):729-33

Agonist-induced [35S]GTPgammaS binding in the membranes of Spodoptera frugiperda insect cells expressing the human D3 dopamine receptor. Pregenzer JF, et al. **Neurosci Lett** 1997 Apr 25;226(2):91-4

PHARMACOLOGY

GTP gammaS removal of D-600 block of skeletal muscle excitation-contraction coupling. Carney-Anderson L, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C572-81

Inhibition of GTP gamma S-dependent phospholipase D and Rho membrane association by calphostin is independent of protein kinase C catalytic activity. Dubyak GR, et al. **Arch Biochem Biophys** 1997 May 1;341(1):129-39

Separate upstream and convergent downstream pathways of G-protein- and phorbol ester-mediated Ca2+ sensitization of myosin light chain phosphorylation in smooth muscle. Jensen PE, et al. **Biochem J** 1996 Sep 1;318 (Pt 2):469-75

Inhibition of insulin release by synthetic peptides shows that the H3 region at the C-terminal domain of syntaxin-1 is crucial for Ca(2+)- but not for guanosine 5'-[gamma-thio]triphosphate-induced secretion. Martin F, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):201-5

Guanosine 5'-O-(3-thiotriphosphate) and cations regulate melatonin receptors, and melatonin inhibits cyclic AMP production in the spinal cord. Wan Q, et al. **Biol Signals** 1997 Mar-Apr;6(2):67-76

High opioid doses inhibit whereas low doses enhance neuritogenesis in PC12 cells. Tenconi B, et al. **Brain Res Dev Brain Res** 1996 Jul 20;94(2):175-81

ARF and PITP restore GTP gamma S-stimulated protein secretion from cytosol-depleted HL60 cells by promoting PIP2 synthesis. Fensome A, et al. **Curr Biol** 1996 Jun 1; 6(6):730-8

Ultrastructural characterization of tannic acid-arrested degranulation of permeabilized guinea pig eosinophils stimulated with GTP-gamma-S. Newman TM, et al. **Eur J Cell Biol** 1996 Jul;70(3):209-20

Chronic exposure of NG 108-15 cells to inhibitory acting drugs reduces stimulatory prostaglandin E1 receptor number. Ammer H, et al. **Eur J Pharmacol** 1996 Apr 29; 302(1-3):199-205

Different effects of baclofen and GTP gamma S on voltage-activated Ca2+ currents in rat hippocampal neurons in vitro. Frank C, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):87-92

Acrosome reaction stimulated by the GTP non-hydrolizable analogue GTP gamma S is blocked by phospholipase A2 inhibitors in human spermatozoa. Domínguez L, et al. **Int J Androl** 1996 Aug;19(4):248-52

Regulation of actin polymerization in cell-free systems by GTPgammaS and Cdc42. Zigmond SH, et al. **J Cell Biol** 1997 Jul 28;138(2):363-74

A large-conductance chloride channel in pigmented ciliary epithelial cells activated by GTPgammaS. Mitchell CH, et al. **J Membr Biol** 1997 Jul 15;158(2):167-75

Order of application determines the interaction between phorbol esters and GTP-gamma-S in dorsal raphe neurons: evidence that the effect of 5-HT is modified upstream of the G protein Ca channel interaction. Chen Y, et al. **J Neurophysiol** 1997 May;77(5):2697-703

Fixation traps formyl peptide receptors in high and low affinity forms that can be regulated by GTP[S] in the absence of ligand. Domalewski MD, et al. **J Recept Signal Transduct Res** 1996 Jan-Mar;16(1-2):59-75

Down-regulation of G-protein-mediated Ca2+ sensitization in smooth muscle. Gong MC, et al. **Mol Biol Cell** 1997 Feb;8(2):279-86

Nuclear membrane vesicle targeting to chromatin in a Drosophila embryo cell-free system. Ulitzur N, et al. **Mol Biol Cell** 1997 Aug;8(8):1439-48

GTP gamma S and forskolin-stimulated adenylyl cyclase activity in post-mortem brain from depressed suicides and controls. Lowther S, et al. **Mol Psychiatry** 1996 Dec; 1(6):470-7

gamma-Glutamyl transpeptidase of spermatozoa may decrease oocyte glutathione content at fertilization in pigs. Funahashi H, et al. **Mol Reprod Dev** 1996 Dec;45(4):485-90

Dual modulation of an inwardly rectifying potassium conductance. Jones SV. **Neuropharmacology** 1997 Feb; 36(2):209-15

Complexity of the regulation of Kir2.1 K+ channels. Ruppersberg JP, et al. **Neuropharmacology** 1996; 35(7):887-93

GUANOSINETRIPHOSPHATASE see **GTP PHOSPHOHYDROLASE**

GUANYL CYCLASE see **GUANYLATE CYCLASE**

GUANYLATE CYCLASE

[Pathophysiological significance of natriuretic peptide receptor] Naruse M, et al. **Nippon Rinsho** 1997 Apr;55 Suppl 2:549-52 (10 ref.) **(Jpn)**

ANALYSIS

Type B atrial natriuretic peptide receptor in cardiac myocyte caveolae. Doyle DD, et al. **Circ Res** 1997 Jul;81(1):86-91

Guanylyl cyclase receptors and guanylin-like peptides in reptilian intestine. Krause WJ, et al. **Gen Comp Endocrinol** 1997 Aug;107(2):229-39

Distribution of guanylate cyclase within photoreceptor outer segments. Hallett MA, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1803-12

Guanylyl cyclase C is a selective marker for metastatic colorectal tumors in human extraintestinal tissues. Carrithers SL, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14827-32

ANTAGONISTS & INHIBITORS

Stimulation of rat mesangial cell thromboxane A2 receptors inhibits particulate but not soluble guanylyl cyclase. Paul RV, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F31-8

A comparative study of the effects of three guanylyl cyclase inhibitors on the L-type Ca2+ and muscarinic K+ currents in frog cardiac myocytes. Abi-Gerges N, et al. **Br J Pharmacol** 1997 Aug;121(7):1369-77

In vivo microdialysis study of a specific inhibitor of soluble guanylyl cyclase on the glutamate receptor/nitric oxide/cyclic GMP pathway. Fedele E, et al. **Br J Pharmacol** 1996 Oct;119(3):590-4

Nitric oxide-mediated relaxation without concomitant changes in cyclic GMP content of rat proximal colon. Takeuchi T, et al. **Br J Pharmacol** 1996 Mar;117(6):1204-8

Effects of a novel inhibitor of guanylyl cyclase on dilator responses of mouse cerebral arterioles [letter; comment] Rosenblum WI. **Stroke** 1997 Jul;28(7):1467-8. Comment on: Stroke 1997 Apr;28(4):837-42; discussion 842-3.

Effects of a novel inhibitor of guanylyl cyclase on dilator responses of mouse cerebral arterioles [see comments] Sobey CG, et al. **Stroke** 1997 Apr;28(4):837-42; discussion 842-3. Comment in: Stroke 1997 Jul;28(7):1467-8.

BIOSYNTHESIS

Dexamethasone upregulates ANP C-receptor protein in human mesangial cells without affecting mRNA. Ardaillou N, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F440-6

Signal transduction pathways via guanylin and uroguanylin in stomach and intestine. London RM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G93-105

Two eye guanylyl cyclases are expressed in the same photoreceptor cells and form homomers in preference to heteromers. Yang RB, et al. **J Biol Chem** 1997 May 23; 272(21):13738-42

Expression and glucocorticoid regulation of natriuretic peptide clearance receptor (NPR-C) mRNA in rat brain and choroid plexus. Herman JP, et al. **J Chem Neuroanat** 1996 Oct;11(4):257-65

Localization of mRNA coding for the three subtypes of atrial natriuretic factor (ANF) receptors in rat anterior pituitary gland cells. Grandclément B, et al. **J Neuroendocrinol** 1995 Dec;7(12):939-48

The heat-stable enterotoxin-guanylin receptor is expressed in rat hepatocytes and in a rat hepatoma (H-35) cell line. Balint JP, et al. **J Recept Signal Transduct Res** 1997 Jul; 17(4):609-30

BLOOD

Regulation of human erythrocyte Na+/H+ exchange by soluble and particulate guanylate cyclase. Petrov V, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1556-64

CHEMISTRY

Structural and functional characterization of a second subfamily member of the calcium-modulated bovine rod outer segment membrane guanylate cyclase, ROS-GC2. Goraczniak R, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):666-70

Functions of conserved cysteines of soluble guanylyl cyclase. Friebe A, et al. **Biochemistry** 1997 Feb 11;36(6):1194-8

Localization by photoaffinity labeling of natriuretic peptide receptor-A binding domain. McNicoll N, et al. **Biochemistry** 1996 Oct 1;35(39):12950-6

Effects of GTP on bound nitric oxide of soluble guanylate cyclase probed by resonance Raman spectroscopy. Tomita T, et al. **Biochemistry** 1997 Aug 19;36(33):10155-60

The alpha 1 subunit of soluble guanylyl cyclase is expressed prenatally in the rat brain. Smigrodzki R, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):226-34

A functional heme-binding site of soluble guanylyl cyclase requires intact N-termini of alpha 1 and beta 1 subunits. Foerster J, et al. **Eur J Biochem** 1996 Sep 1;240(2):380-6

Expression of the extracellular domain of the human heat-stable enterotoxin receptor in Escherichia coli and generation of neutralizing antibodies. Nandi A, et al. **Protein Expr Purif** 1996 Sep;8(2):151–9

DEFICIENCY

The guanylyl cyclase-deficient mouse defines differential pathways of natriuretic peptide signaling. Lopez MJ, et al. **J Biol Chem** 1997 Sep 12;272(37):23064–8

DRUG EFFECTS

Effect of copper on nitric oxide synthase and guanylyl cyclase activity in the rat isolated aorta. Plane F, et al. **Br J Pharmacol** 1997 May;121(2):345–50

YC-1, a nitric oxide-independent activator of soluble guanylate cyclase, inhibits platelet-rich thrombosis in mice. Teng CM, et al. **Eur J Pharmacol** 1997 Feb 12; 320(2–3):161–6

GENETICS

Structural analysis of natriuretic peptide receptor-C by truncation and site-directed mutagenesis. Itakura M, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):585–90

The bovine guanylate cyclase GC-E gene and 5' flanking region. Johnston JP, et al. **Gene** 1997 Jul 9;193(2):219–27

Physical mapping of the human connexin 40 (GJA5), flavin-containing monooxygenase 5, and natriuretic peptide receptor a genes on 1q21. Gelb BD, et al. **Genomics** 1997 Feb 1;39(3):409–11

Localization of the guanylyl cyclase C gene to mouse chromosome 6 and human chromosome 12p12. Mann EA, et al. **Genomics** 1996 Jun 1;34(2):265–7

Chromosomal localization and genomic organization of genes encoding guanylyl cyclase receptors expressed in olfactory sensory neurons and retina. Yang RB, et al. **Genomics** 1996 Feb 1;31(3):367–72

Assignment of GUCIA2, the gene coding for the alpha 2 subunit of soluble guanylyl cyclase, to position 11q21–q22 on human chromosome 11. Yu F, et al. **Genomics** 1996 Apr 15;33(2):334–6

Identification of ligand recognition sites in heat-stable enterotoxin receptor, membrane-associated guanylyl cyclase C by site-directed mutational analysis. Wada A, et al. **Infect Immun** 1996 Dec;64(12):5144–50

Change in the expression of C-type natriuretic peptide and its receptor, B-type natriuretic peptide receptor, during dedifferentiation of chondrocytes into fibroblast-like cells. Hagiwara H, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):264–7

The cloning of a Caenorhabditis elegans guanylyl cyclase and the construction of a ligand-sensitive mammalian/nematode chimeric receptor. Baude EJ, et al. **J Biol Chem** 1997 Jun 20;272(25):16035–9

Primary structure and differential gene expression of three membrane forms of guanylyl cyclase found in the eye of the teleost Oryzias latipes. Seimiya M, et al. **J Biol Chem** 1997 Sep 12;272(37):23407–17

Nitric oxide decreases stability of mRNAs encoding soluble guanylate cyclase subunits in rat pulmonary artery smooth muscle cells. Filippov G, et al. **J Clin Invest** 1997 Aug 15;100(4):942–8

Expression of natriuretic peptide receptors in human adipose and other tissues. Sarzani R, et al. **J Endocrinol Invest** 1996 Oct;19(9):581–5

Genetic mapping of the C-type natriuretic peptide receptor (Npr2) gene to mouse chromosome 4. Nuglozeh E, et al. **Mamm Genome** 1997 Aug;8(8):624–5

Retinal-specific guanylate cyclase gene mutations in Leber's congenital amaurosis. Perrault I, et al. **Nat Genet** 1996 Dec; 14(4):461–4

Guanylyl cyclase expression in specific sensory neurons: a new family of chemosensory receptors. Yu S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3384–7

IMMUNOLOGY

Production and characterization of monoclonal antibodies against human natriuretic peptide receptor-A or -B. Kitano K, et al. **Immunol Lett** 1995 Sep;47(3):215–22

ISOLATION & PURIFICATION

Nitric oxide-sensitive guanylate cyclase activity is associated with the maturational phase of neuronal development in insects. Truman JW, et al. **Development** 1996 Dec; 122(12):3949–58

Expression and purification of soluble, active heterodimeric guanylyl cyclase from baculovirus. Gupta G, et al. **Protein Expr Purif** 1997 Aug;10(3):325–30

METABOLISM

Distribution of Escherichia coli heat-stable enterotoxin/guanylin/uroguanylin receptors in the avian intestinal tract. Krause WJ, et al. **Acta Anat (Basel)** 1995; 153(3):210–9

Modulation of ANF-R2/ANP-C receptors by angiotensin II in vascular smooth muscle cells. Palaparti A, et al. **Am J Hypertens** 1996 Sep;9(9):930–4

Pulmonary soluble guanylate cyclase, a nitric oxide receptor, is increased during the perinatal period. Bloch KD, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L400–6

Glutathione causes coronary vasodilation via a nitric oxide- and soluble guanylate cyclase-dependent mechanism. Cheung PY, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1231–8

Distribution and regulation of guanylyl cyclase type B in the rat nephron. Dean AD, et al. **Am J Physiol** 1996 Feb; 270(2 Pt 2):F311–8

Atrial natriuretic peptide accounts for increased cGMP in hypoxia-induced hypertensive rat lungs. Muramatsu M, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1126–32

PGE2 and PGI2 inhibit ET-1 secretion from endothelial cells by stimulating particulate guanylate cyclase. Razandi M, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1342–9

Nitric oxide stimulates guanylate cyclase and regulates sodium transport in rabbit proximal tubule. Rocznıak A, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F106–15

Differential processing of guanylyl cyclase C along villus-crypt axis of rat small intestine. Scheving LA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1995–2004

Structure, glycosylation, and localization of rat intestinal guanylyl cyclase C: modulation by fasting. Scheving LA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G959–68

Nitric oxide synthase and adenylyl and guanylyl cyclase activity in porcine interposition vein grafts. Jeremy JY, et al. **Ann Thorac Surg** 1997 Feb;63(2):470–6

Altered responsiveness of guanylyl cyclase to nitric oxide following treatment of cardiomyocytes with S-nitroso-D,L-acetylpenicillamine and sodium nitroprusside. Davis JP, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):351–6

Structural and functional characterization of a second subfamily member of the calcium-modulated bovine rod outer segment membrane guanylate cyclase, ROS-GC2. Goraczniak R, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):666–70

Stimulation by retinoids of the natriuretic peptide system of osteoblastic MC3T3-E1 cells. Inoue A, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):182–6

Distinct inhibitory ATP-regulated modulatory domain (ARMi) in membrane guanylate cyclases. Duda T, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):279–83

Structural analysis of natriuretic peptide receptor-C by truncation and site-directed mutagenesis. Itakura M, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):585–90

Kinetics of nitric oxide dissociation from five- and six-coordinate nitrosyl hemes and heme proteins, including soluble guanylate cyclase. Kharitonov VG, et al. **Biochemistry** 1997 Jun 3;36(22):6814–8

Functional reconstitution of photoreceptor guanylate cyclase with native and mutant forms of guanylate cyclase-activating protein 1. Otto-Bruc A, et al. **Biochemistry** 1997 Apr 8;36(14):4295–302

Domain-specific stabilization of photoreceptor membrane guanylyl cyclase by adenine nucleotides and guanylyl cyclase activating proteins (GCAPs). Tucker CL, et al. **Biochemistry** 1997 Sep 30;36(39):11995–2000

A conformational epitope in the N-terminus of the Escherichia coli heat-stable enterotoxins is involved in receptor-ligand interactions. Garrett BM, et al. **Biochim Biophys Acta** 1996 Nov 15;1317(2):149–54

C-type natriuretic peptide and the guanylyl cyclase receptors in the rat ovary are modulated by the estrous cycle. Jankowski M, et al. **Biol Reprod** 1997 Jan;56(1):59–66

Carbon monoxide-induced relaxation of the ductus arteriosus in the lamb: evidence against the prime role of guanylyl cyclase. Coceani F, et al. **Br J Pharmacol** 1996 Aug; 118(7):1689–96

Effect of YC-1, an NO-independent, superoxide-sensitive stimulator of soluble guanylyl cyclase, on smooth muscle responsiveness to nitrovasodilators. Mülsch A, et al. **Br J Pharmacol** 1997 Feb;120(4):681–9

Increased activity of guanylate cyclase in the atherosclerotic rabbit aorta: role of non-endothelial nitric oxide synthases. Rupin A, et al. **Br J Pharmacol** 1996 Nov;119(6):1233–8

Subunits of soluble guanylyl cyclase in rat and guinea-pig sensory ganglia. Kummer W, et al. **Brain Res** 1996 May 20;721(1–2):191–5

Biochemical and cytochemical analyses of BNP-stimulated guanylate cyclase in frog choroid plexus. Vagnetti D, et al. **Brain Res** 1995 Dec 24;705(1–2):295–301

Inhibition of the action of nitric oxide prodrugs by pyocyanin: mechanistic studies. Hussain AS, et al. **Can J Physiol Pharmacol** 1997 May;75(5):398–406

Guanylyl cyclase C is up-regulated by nonparenchymal cells and hepatocytes in regenerating rat liver. Scheving LA, et al. **Cancer Res** 1996 Nov 15;56(22):5186–91

Characterization of human platelet receptors for atrial natriuretic peptide: evidence for clearance receptors. Blaise V, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Dec; 42(8):1173–9

Nitric oxide/cGMP pathway components in the Leydig cells of the human testis. Davidoff MS, et al. **Cell Tissue Res** 1997 Jan;287(1):161–70

Intrarenal localization of nitric oxide synthase isoforms and soluble guanylyl cyclase. Star RA. **Clin Exp Pharmacol Physiol** 1997 Aug;24(8):607–10 (39 ref.)

Natriuretic peptide receptors on human trabecular meshwork cells. Chang AT, et al. **Curr Eye Res** 1996 Feb;15(2):137–43

Sensitizing soluble guanylyl cyclase to become a highly CO-sensitive enzyme. Friebe A, et al. **EMBO J** 1996 Dec 16;15(24):6863–8

The Dictyostelium MAP kinase kinase DdMEK1 regulates chemotaxis and is essential for chemoattractant-mediated activation of guanylyl cyclase. Ma H, et al. **EMBO J** 1997 Jul 16;16(14):4317–32

Particulate ANP-sensitive guanylyl cyclase in blood and bone marrow cells of patients with acute leukemia. Knau B, et al. **Eur J Med Res** 1997 Mar 24;2(3):101–5

YC-1, a nitric oxide-independent activator of soluble guanylate cyclase, inhibits platelet-rich thrombosis in mice. Teng CM, et al. **Eur J Pharmacol** 1997 Feb 12; 320(2–3):161–6

Mutations in B-type natriuretic peptide mediating receptor-A selectivity. Schoenfeld JR, et al. **FEBS Lett** 1997 Sep 8;414(2):263–7

Distribution and characterization of natriuretic peptide receptors in the gills of the spiny dogfish, Squalus acanthias. Donald JA, et al. **Gen Comp Endocrinol** 1997 Jun; 106(3):338–47

Cytochemical localization of guanylate cyclase in photoreceptor cells of the mouse. Schraermeyer U, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Mar;235(3):176–9

Differential gene expression of the three natriuretic peptides and natriuretic peptide receptor subtypes in human liver [see comments] Vollmar AM, et al. **Gut** 1997 Jan; 40(1):145–50. Comment in: Gut 1997 Jan;40(1):151–2.

Nitric-oxide-guanylyl-cyclase-dependent and -independent components of multiple forms of long-term synaptic depression. Gage AT, et al. **Hippocampus** 1997;7(3):286–95

Detection of guanylate cyclases A and B stimulated by natriuretic peptides in gastrointestinal tract of rat. Rambotti MG, et al. **Histochem J** 1997 Feb;29(2):117–26

Expression of guanylyl cyclase-A/atrial natriuretic peptide receptor blocks the activation of protein kinase C in vascular smooth muscle cells. Role of cGMP and cGMP-dependent protein kinase. Kumar R, et al. **Hypertension** 1997 Jan;29(1 Pt 2):414–21

Natriuretic peptide B receptor and C-type natriuretic peptide in the rat kidney. Lohe A, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1552–8

Inhibitory transmission to the longitudinal muscle of the mouse caecum is mediated largely by nitric oxide acting via soluble guanylyl cyclase. Young HM, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):103–8

The photoreceptor guanylate cyclase is an autophosphorylating protein kinase. Aparicio JG, et al. **J Biol Chem** 1996 Oct 25;271(43):27083–9

Nerve growth factor decreases soluble guanylate cyclase in rat pheochromocytoma PC12 cells. Liu H, et al. **J Biol Chem** 1997 Feb 28;272(9):6038–43

Calcium binding, but not a calcium-myristoyl switch, controls the ability of guanylyl cyclase-activating protein GCAP-2 to regulate photoreceptor guanylyl cyclase. Olshevskaya EV, et al. **J Biol Chem** 1997 May 30; 272(22):14327–33

Interruption of Escherichia coli heat-stable enterotoxin-induced guanylyl cyclase signaling and associated chloride current in human intestinal cells by 2-chloroadenosine. Parkinson SJ, et al. **J Biol Chem** 1997 Jan 10;272(2):754–8

Guanylate cyclase activity in permeabilized Dictyostelium discoideum cells. Schoen CD, et al. **J Cell Biochem** 1996 Mar 1;60(3):411–23

Assay of soluble guanylate cyclase activity by isocratic high-performance liquid chromatography. Pietta PG, et al. **J Chromatogr B Biomed Appl** 1997 Mar 7;690(1–2):343–7

Localization of natriuretic peptide-activated guanylate cyclase mRNAs in the rat brain. Herman JP, et al. **J Comp Neurol** 1996 May 27;369(2):165–87

Localization of soluble guanylate cyclase activity in the guinea pig cochlea suggests involvement in regulation of blood flow and supporting cell physiology. Fessenden JD, et al. **J Histochem Cytochem** 1997 Oct;45(10):1401–8

Atrial natriuretic peptide-C receptor and membrane signalling in hypertension. Anand-Srivastava MB. **J Hypertens** 1997 Aug;15(8):815–26 (134 ref.)

Particulate ANP-sensitive guanylyl cyclase: induction in cultured human peripheral CD3+ mononuclear blood cells. Heim JM, et al. **J Mol Med** 1996 Oct;74(10):629–35

Inhibition of endogenous nitric oxide synthesis activates particulate guanylyl cyclase in the rat renal glomeruli. Lewko B, et al. **Kidney Int** 1997 Sep;52(3):654–9

Nitric oxide-dependent soluble guanylate cyclase activity is decreased in platelets from male NIDDM patients. Michimata T, et al. **Life Sci** 1996;59(17):1463–71

Phosphorylation and activation of the intestinal guanylyl cyclase receptor for Escherichia coli heat-stable toxin by protein kinase C. Crane JK, et al. **Mol Cell Biochem** 1996 Dec 20;165(2):111–20

Glycosylation is critical for natriuretic peptide receptor-B function. Fenrick R, et al. **Mol Cell Biochem** 1996 Dec 20;165(2):103–9

Age-dependent changes in particulate and soluble guanylyl cyclase activities in urinary tract smooth muscle. Wheeler MA, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):115–24

Characterization of guanylyl cyclase in purified myelin. Grabow M, et al. **Neurochem Res** 1996 Apr;21(4):457–62

Detection of C-type natriuretic peptide (CNP) and atrial natriuretic peptide (ANP-B) receptor mRNAs in rat inner ear. Suzuki M, et al. **Neuroreport** 1997 Jan 20;8(2):439–43

Region-specific developmental patterns of atrial natriuretic factor- and nitric oxide-activated guanylyl cyclases in the postnatal frontal rat brain. Markerink-Van Ittersum M, et al. **Neuroscience** 1997 May;78(2):571–87

A subset of olfactory neurons that selectively express cGMP-stimulated phosphodiesterase (PDE2) and guanylyl cyclase-D define a unique olfactory signal transduction pathway. Juilfs DM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3388-95

A mutation of the atrial natriuretic peptide (guanylyl cyclase-A) receptor results in a constitutively hyperactive enzyme. Wedel BJ, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):459-62

Regulation of the atrial natriuretic peptide receptor guanylyl cyclase. Chinkers M. **Proc Soc Exp Biol Med** 1996 Nov; 213(2):105-8 (25 ref.)

Adenylate and guanylate cyclases in Tetrahymena. Umeki S, et al. **Prog Mol Subcell Biol** 1996;17:40-60 (84 ref.)

A particulate guanylate cyclase (EC 4.6.1.2) from growing yeast cells (Saccharomyces cerevisiae). Eckstein H, et al. **Z Naturforsch [C]** 1997 May-Jun;52(5-6):373-9

[Inhibition of ADP-induced platelet aggregation by guanidine thiols--a novel class of guanylate cyclase activators and NO-synthase substrates] Belushkina NN, et al. **Biokhimiia** 1996 Dec;61(12):2140-6 (Eng. Abstr.) **(Rus)**

[The role of thiols in the stimulation of soluble guanylate cyclase by a new class of enzyme activators generating nitric oxide] Belushkina NN, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):39-42 **(Rus)**

PHYSIOLOGY

Clearance receptors and endopeptidase 24.11: equal role in natriuretic peptide metabolism in conscious sheep. Charles CJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R373-80

Altered vascular norepinephrine responses in portal hypertensive intestine: role of PKA and guanylate cyclase. Wu ZY, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G831-7

Physiological regulation of blood pressure and kidney function by guanylyl cyclase isoforms. Kishimoto I, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):58-63 (46 ref.)

Long-term depression in rat cerebellum requires both NO synthase and NO-sensitive guanylyl cyclase. Boxall AR, et al. **Eur J Neurosci** 1996 Oct;8(10):2209-12

New insights on the functions of the guanylyl cyclase receptors. Wedel BJ, et al. **FEBS Lett** 1997 Jun 23; 410(1):29-33 (32 ref.)

Oxygen modulation of guanylate cyclase-mediated retinal pericyte relaxations with 3-morpholino-sydnonimine and atrial natriuretic peptide. Haefliger IO, et al. **Invest Ophthalmol Vis Sci** 1997 Jul;38(8):1563-8

C-type natriuretic peptide-mediated coronary vasodilation: role of the coronary nitric oxide and particulate guanylate cyclase systems. Wright RS, et al. **J Am Coll Cardiol** 1996 Oct;28(4):1031-8

Regulation of guanylyl cyclase by a cGMP-binding protein during chemotaxis in Dictyostelium discoideum. Kuwayama H, et al. **J Biol Chem** 1996 Sep 27; 271(39):23718-24

Evidence for possible involvement of guanylate cyclase in diarrhoea induced by castor oil in mice [letter] Robert FS, et al. **J Diarrhoeal Dis Res** 1996 Sep;14(3):218-9

Role of soluble guanylyl cyclase in the relaxations to a nitric oxide donor and to nonadrenergic nerve stimulation in guinea pig trachea and human bronchus. Ellis JL. **J Pharmacol Exp Ther** 1997 Mar;280(3):1215-8

Sensitization of olfactory guanylyl cyclase to a specific imprinted odorant in coho salmon. Dittman AH, et al. **Neuron** 1997 Aug;19(2):381-9

Regulation of intestinal uroguanylin/guanylin receptor-mediated responses by mucosal acidity. Hamra FK, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2705-10

Evidence that guanylate cyclase is involved in modulating the resting tension and neurally-induced contraction of the guinea pig tracheal muscle. Simon OR, et al. **West Indian Med J** 1996 Sep;45(3):89-91

[Soluble guanyl cyclases. Key enzymes for therapeutic applications of the NO principle] Hönicka M, et al. **Internist (Berl)** 1997 May;38(5):427-37 (88 ref.) **(Ger)**

[Function of soluble guanylate cyclase and nitric oxide] Makino R. **Tanpakushitsu Kakusan Koso** 1997 Feb;42(3 Suppl):379-84 (55 ref.) **(Jpn)**

5'-GUANYLIC ACID

ANALOGS & DERIVATIVES

32P-postlabelling approaches for the detection of 8-oxo-2'-deoxyguanosine-3'-monophosphate in DNA. Podmore K, et al. **Mutat Res** 1997 Aug 1;378(1-2):139-49

In vitro selection of a novel catalytic RNA: characterization of a sulfur alkylation reaction and interaction with a small peptide. Wecker M, et al. **RNA** 1996 Oct;2(10):982-94

BLOOD

Left atrial function and atrial natriuretic factor/cyclic guanosine monophosphate changes in DDD and VVI pacing modes. Theodorakis GN, et al. **Am J Cardiol** 1997 Feb 1;79(3):366-70

CHEMISTRY

Effect of geometric isomerism in dinuclear platinum antitumour complexes on the rate of formation and structure of intrastrand adducts with oligonucleotides. Mellish KJ, et al. **Nucleic Acids Res** 1997 Mar 15; 25(6):1265-71

METABOLISM

Enzymes involved in guanine monophosphate metabolism of aging chicken heart. Pane G, et al. **Aging (Milano)** 1996 Dec;8(6):396-9

Effects of Mg2+ and the 2' OH of guanosine on steps required for substrate binding and reactivity with the Tetrahymena ribozyme reveal several local folding transitions. Li Y, et al. **Biochemistry** 1997 Sep 16; 36(37):11131-9

Activation of the nitric oxide/cGMP pathway is required for refilling intracellular Ca2+ stores in a sympathetic neuron cell line. Harrington MA, et al. **Cell Calcium** 1996 May;19(5):399-407

Photoinduced electron transfer from nucleotides to DNA intercalating viologens. A study by laser-flash photolysis and spectroelectrochemistry. Knapp C, et al. **J Photochem Photobiol B** 1996 Oct;36(1):67-76

PHARMACOLOGY

GMP reverses the facilitatory effect of glutamate on inhibitory avoidance task in rats. Rubin MA, et al. **Neuroreport** 1996 Sep 2;7(13):2078-80

GMP protects against quinolinic acid-induced loss of NADPH-diaphorase-positive cells in the rat striatum. Malcon C, et al. **Neurosci Lett** 1997 Apr 11;225(3):145-8

GUANYLORIBONUCLEASE see **RIBONUCLEASE T1**

GUANYLYL IMIDODIPHOSPHATE

CHEMISTRY

Rab7: crystallization of intact and C-terminal truncated constructs complexed with GDP and GppNHp. Brachvogel V, et al. **Proteins** 1997 Feb;27(2):210-2

METABOLISM

Conformational and dynamic differences between N-ras P21 bound to GTPgammaS and to GMPPNP as studied by NMR. Hu JS, et al. **Biochemistry** 1997 Apr 22; 36(16):5045-52

Regional differences of the inhibition of GABAB ligand binding by the GTP analogue Gpp(NH)p. Mathivet P, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):18-24

Specific binding of [3H]GppNHp to extracellular membrane receptors in chick cerebellum: possible involvement of kainic acid receptors. Ramos M, et al. **FEBS Lett** 1997 Apr 7;406(1-2):114-8

The crystal structure of human rac1, a member of the rho-family complexed with a GTP analogue. Hirshberg M, et al. **Nat Struct Biol** 1997 Feb;4(2):147-52

GUERIN-STERN SYNDROME see **ARTHROGRYPOSIS**

GUEST RELATIONS see **HOSPITAL-PATIENT RELATIONS**

GUIDE RNA see **RNA, GUIDE**

GUIDED IMAGERY see **IMAGERY (PSYCHOTHERAPY)**

GUIDED TISSUE REGENERATION

Bone formation inside the material interstices of e-PTFE membranes: a light microscopical and histochemical study in man. Piattelli A, et al. **Biomaterials** 1996 Sep; 17(17):1725-31

Tissue engineering, morphogenesis, and regeneration of the periodontal tissues by bone morphogenetic proteins. Ripamonti U, et al. **Crit Rev Oral Biol Med** 1997; 8(2):154-63 (86 ref.)

Barrier membrane techniques in endodontic microsurgery. Pecora G, et al. **Dent Clin North Am** 1997 Jul;41(3):585-602 (32 ref.)

Bone tissue reactions to demineralized freeze-dried bone in conjunction with e-PTFE barrier membranes in man. Donath K, et al. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 1)):96-101

Guided tissue regeneration and local delivery of insulinlike growth factor I by bioerodible polyorthoester membranes in rat calvarial defects. Busch O, et al. **Int J Oral Maxillofac Implants** 1996 Jul-Aug;11(4):498-505

Treatment of peri-implantitis using guided bone regeneration and bone grafts, alone or in combination, in beagle dogs. Part 2: Histologic findings. Hürzeler MB, et al. **Int J Oral Maxillofac Implants** 1997 Mar-Apr;12(2):168-75

A review of material properties of biodegradable and bioresorbable polymers and devices for GTR and GBR applications. Hutmacher D, et al. **Int J Oral Maxillofac Implants** 1996 Sep-Oct;11(5):667-78 (73 ref.)

Guided bone regeneration using resorbable and nonresorbable membranes: a comparative histologic study in humans. Simion M, et al. **Int J Oral Maxillofac Implants** 1996 Nov-Dec;11(6):735-42

The periodontal tissues in healed degree III furcation defects. An experimental study in dogs. Araújo M, et al. **J Clin Periodontol** 1996 Jun;23(6):532-41

Guided tissue regeneration using a collagen membrane in chronic adult and rapidly progressive periodontitis patients in the treatment of 3-wall intrabony defects. Benqué E, et al. **J Clin Periodontol** 1997 Aug;24(8):544-9

Combined collagen membrane and hydroxyapatite/collagen chondroitin-sulfate spacer placement in the treatment of 2-wall intrabony defects in chronic adult and rapidly progressive periodontitis patients. Benqué E, et al. **J Clin Periodontol** 1997 Aug;24(8):550-6

Long-term stability of clinical attachment following guided tissue regeneration and conventional therapy. Cortellini P, et al. **J Clin Periodontol** 1996 Feb;23(2):106-11

Bacterial colonization of barrier material and periodontal regeneration. De Sanctis M, et al. **J Clin Periodontol** 1996 Nov;23(11):1039-46

Bone density of class II furcation lesions treated by guided tissue regeneration. A follow-up study by digital analysis of superimposable radiographs. Dubrez B, et al. **J Clin Periodontol** 1996 Sep;23(9):882-8

A clinical evaluation of a bioresorbable barrier with and without decalcified freeze-dried bone allograft in the treatment of molar furcations. Luepke PG, et al. **J Clin Periodontol** 1997 Jun;24(6):440-6

Systemic antimicrobial treatment and guided tissue regeneration. Clinical and microbiological effects in furcation defects. Mombelli A, et al. **J Clin Periodontol** 1996 Apr;23(4):386-96

Treatment of 3rd molar-induced periodontal defects with guided tissue regeneration. Oxford GE, et al. **J Clin Periodontol** 1997 Jul;24(7):464-9

Does root surface conditioning with citric acid delay healing? Selvig KA, et al. **J Clin Periodontol** 1996 Feb;23(2):119-27

Factors affecting the healing response of intrabony defects following guided tissue regeneration and access flap surgery. Tonetti MS, et al. **J Clin Periodontol** 1996 Jun; 23(6):548-56

Healing response of gingival recession defects following guided tissue regeneration procedures in smokers and non-smokers. Trombelli L, et al. **J Clin Periodontol** 1997 Aug;24(8):529-33

Retrospective analysis of factors related to clinical outcome of guided tissue regeneration procedures in intrabony defects. Trombelli L, et al. **J Clin Periodontol** 1997 Jun; 24(6):366-71

The use of polylactic acid polymers in local drug delivery and guided tissue regeneration (at Nihon University School of Dentistry on November 12, 1996). Ryder MI. **J Nihon Univ Sch Dent** 1997 Mar;39(1):1-7

Treatment of interproximal angular defects by guided tissue regeneration: 1 year follow-up. Mora F, et al. **J Oral Rehabil** 1996 Sep;23(9):599-606

Markers of bone and cementum formation accumulate in tissues regenerated in periodontal defects treated with expanded polytetrafluoroethylene membranes. Amar S, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):148-58

Cytokine production by cells adherent to regenerative membranes. Wakabayashi RC, et al. **J Periodontal Res** 1997 Feb;32(2):215-24

Protease repertoires of cells adherent to membranes recovered after guided tissue regeneration. Wakabayashi RC, et al. **J Periodontal Res** 1996 Apr;31(3):171-80

Bacterial adherence to guided tissue regeneration barrier membranes exposed to the oral environment. Chen YT, et al. **J Periodontol** 1997 Feb;68(2):172-9

Bacterial colonization of bioabsorbable barrier material and periodontal regeneration. De Sanctis M, et al. **J Periodontol** 1996 Nov;67(11):1193-200

Evidence for healing of class II and III furcations after GTR therapy: digital subtraction and clinical measurements. Eickholz P, et al. **J Periodontol** 1997 Jul;68(7):636-44

Guided tissue regeneration therapy of 203 consecutively treated intrabony defects using a bioabsorbable matrix barrier. Clinical and radiographic findings. Falk H, et al. **J Periodontol** 1997 Jun;68(6):571-81

A comparative study of root coverage obtained with guided tissue regeneration utilizing a bioabsorbable membrane versus the connective tissue with partial-thickness double pedicle graft. Harris RJ. **J Periodontol** 1997 Aug; 68(8):779-90

A bone regenerative approach to alveolar ridge maintenance following tooth extraction. Report of 10 cases. Lekovic V, et al. **J Periodontol** 1997 Jun;68(6):563-70

Guided tissue regeneration versus mucogingival surgery in the treatment of human buccal recessions. A 4-year follow-up study. Pini Prato G, et al. **J Periodontol** 1996 Nov;67(11):1216-23

Development and clinical evaluation of a root coverage procedure using a collagen barrier membrane. Shieh AT, et al. **J Periodontol** 1997 Aug;68(8):770-8

Comparison between 2 surgical techniques for the treatment of early-onset periodontitis. Sirirat M, et al. **J Periodontol** 1996 Jun;67(6):603-7

Effects of guided bone regeneration around commercially pure titanium and hydroxyapatite-coated dental implants. I. Radiographic analysis. Stentz WC, et al. **J Periodontol** 1997 Mar;68(3):199-208

Vascular response to guided tissue regeneration procedures using nonresorbable and bioabsorbable membranes in dogs. Vergara JA, et al. **J Periodontol** 1997 Mar;68(3):217-24

Times change [letter; comment] Sussman HI. **N Y State Dent J** 1996 Dec;62(10):12-3. Comment on: N Y State Dent J 1996 Oct;62(8):42-6.

GUIDED TISSUE REGENERATION

[Barrier membrane technique in oral medicine] Yao H, et al. **Chung Hua Kou Chiang Hsueh Tsa Chih** 1995 Jul; 30(4):250–2 (20 ref.) **(Chi)**

[Periodontal surgery and guided tissue regeneration. Advancements in outcome:—concepts—means—applications] Servera C, et al. **Rev Stomatol Chir Maxillofac** 1997 Sep;98(3):207–15 (24 ref.) **(Fre)**

ADVERSE EFFECTS

Pyogenic granuloma associated with guided tissue regeneration: a case report. Fowler EB, et al. **J Periodontol** 1996 Oct;67(10):1011–5

The dynamics of microbial colonization of barrier membranes for guided tissue regeneration. Nowzari H, et al. **J Periodontol** 1996 Jul;67(7):694–702

INSTRUMENTATION

Biological effects of drug-loaded biodegradable membranes for guided bone regeneration. Chung CP, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):172–5

Comparison of a bioabsorbable GTR barrier to a non-absorbable barrier in treating human class II furcation defects. A multi-center parallel design randomized single-blind trial. Garrett S, et al. **J Periodontol** 1997 Jul; 68(7):667–75

Comparison of bioabsorbable laminar bone membrane and non-resorbable ePTFE membrane in mandibular furcations. Scott TA, et al. **J Periodontol** 1997 Jul; 68(7):679–86

METHODS

Evaluation of anionic collagen membranes in the treatment of class II furcation lesions: an histometric analysis in dogs. Cirelli JA, et al. **Biomaterials** 1997 Sep;18(18):1227–34

Histologic and clinical observations of resorbable and nonresorbable barrier membranes used in maxillary sinus graft containment. Avera SP, et al. **Int J Oral Maxillofac Implants** 1997 Jan–Feb;12(1):88–94

Soft tissue management for primary closure in guided bone regeneration: surgical technique and case report. Novaes AB Jr, et al. **Int J Oral Maxillofac Implants** 1997 Jan–Feb; 12(1):84–7

Guided tissue repair of complete buccal dehiscences associated with periapical defects: a clinical retrospective study. Pompa DG. **J Am Dent Assoc** 1997 Jul;128(7):989–97

Combining reconstructive and regenerative therapies. White C Jr, et al. **J Am Dent Assoc** 1997 May;128(5):625–9

Guided bone regeneration to facilitate implant and prosthodontic therapy: three case reports. Jones T, et al. **J Can Dent Assoc** 1996 Oct;62(10):799–803

Clinical evaluation of a bioabsorbable regenerative material in mandibular class II furcation therapy. Bouchard P, et al. **J Clin Periodontol** 1997 Jul;24(7):511–8

Periodontal regeneration of intrabony defects with resorbable and non-resorbable membranes: 30-month results. Christgau M, et al. **J Clin Periodontol** 1997 Jan;24(1):17–27

Guided tissue regeneration with non-resorbable and biodegradable barriers: 6 months results. Eickholz P, et al. **J Clin Periodontol** 1997 Feb;24(2):92–101

Evaluation of guided tissue regeneration in interproximal defects. (II). Membrane and bone versus membrane alone. Gouldin AG, et al. **J Clin Periodontol** 1996 May; 23(5):485–91

Guided tissue regeneration in conjunction with hydroxyapatite-collagen grafts for intrabony defects. A clinical and radiological evaluation. Kiliç AR, et al. **J Clin Periodontol** 1997 Jun;24(6):372–83

Resorption rates of 2 commercially available bioresorbable membranes. A histomorphometric study in a rabbit model. Miller N, et al. **J Clin Periodontol** 1996 Dec;23(12):1051–9

Effects of polyglactin mesh combined with resorbable calcium carbonate or replamineform hydroxyapatite on periodontal repair in dogs. Moon IS, et al. **J Clin Periodontol** 1996 Oct;23(10):945–51

Periodontal healing following reconstructive surgery: effect of guided tissue regeneration. Nygaard-Ostby P, et al. **J Clin Periodontol** 1996 Dec;23(12):1073–9

A comparison of 2 polytetrafluoroethylene membranes in guided tissue regeneration in sheep. Danesh-Meyer MJ, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 1):20–30

A prospective multi-center study evaluating periodontal regeneration for Class II furcation invasions and intrabony defects after treatment with a bioabsorbable barrier membrane: 1-year results. Becker W, et al. **J Periodontol** 1996 Jul;67(7):641–9

Periodontal regeneration in naturally occurring Class II furcation defects in beagle dogs after guided tissue regeneration with bioabsorbable barriers. Bogle G, et al. **J Periodontol** 1997 Jun;68(6):536–44

Regeneration of rat calvarial defects using a bioabsorbable membrane technique: influence of collagen cross-linking. Brunel G, et al. **J Periodontol** 1996 Dec;67(12):1342–8

Evaluation of bioabsorbable elastin-fibrin matrix as a barrier in surgical periodontal treatment. Da Costa-Noble R, et al. **J Periodontol** 1996 Sep;67(9):927–34

A clinical evaluation of guided tissue regeneration with a bioabsorbable matrix membrane combined with an allograft bone graft. A series of case reports. Harris RJ. **J Periodontol** 1997 Jun;68(6):598–607

Guided periodontal tissue regeneration in interproximal intrabony defects following treatment with a synthetic bioabsorbable barrier. Hürzeler MB, et al. **J Periodontol** 1997 May;68(5):489–97

Guided periodontal tissue regeneration in Class II furcation defects following treatment with a synthetic bioabsorbable barrier. Hürzeler MB, et al. **J Periodontol** 1997 May; 68(5):498–505

Periodontal repair in intrabony defects treated with a calcium carbonate implant and guided tissue regeneration. Kim CK, et al. **J Periodontol** 1996 Dec;67(12):1301–6

Periodontal regeneration by application of recombinant human bone morphogenetic protein-2 to horizontal circumferential defects created by experimental periodontitis in beagle dogs. Kinoshita A, et al. **J Periodontol** 1997 Feb;68(2):103–9

The use of a resorbable membrane in mucogingival surgery. Case series. Rachlin G, et al. **J Periodontol** 1996 Jun; 67(6):621–6

Assessment of guided tissue regeneration procedures in intrabony defects with bioabsorbable and non-resorbable barriers. Weltman R, et al. **J Periodontol** 1997 Jun; 68(6):582–90

Expression of extracellular matrix macromolecules around demineralized freeze-dried bone allografts. Xiao Y, et al. **J Periodontol** 1996 Nov;67(11):1233–44

Clinical evaluation of demineralized-unicortical-ilium-strips for guided tissue regeneration. Yamaoka SB, et al. **J Periodontol** 1996 Aug;67(8):803–15

Multi-center evaluation of bioabsorbable collagen membrane for guided tissue regeneration in human Class II furcations. Yukna CN, et al. **J Periodontol** 1996 Jul;67(7):650–7

Guided tissue regeneration in dentistry. Ziccardi VB, et al. **N Y State Dent J** 1996 Dec;62(10):48–51 (27 ref.)

Influence of three membrane types on healing of bone defects. Crump TB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Oct;82(4):365–74

Healing of osseous submucous cleft palates with guided bone regeneration. Matzen M, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Sep; 30(3):161–7

[Bioresorbable membrane barriers for guided tissue regeneration—a vision or reality? A report on the symposium of the Clinic for Preventive Dentistry, Periodontology and Cariology of the Center for Dentistry, Oral Medicine and Orthodontics of the University of Zurich on 12 October 1995] Marending M, et al. **Schweiz Monatsschr Zahnmed** 1996;106(4):418 **(Ger)**

GUIDELINES

The need for premedical curricular reform [letter] Imperato PJ. **Acad Med** 1997 Sep;72(9):734–5

A computer program to promote understanding of the monitoring method evaluation guidelines used at NIOSH. Abell MT, et al. **Am Ind Hyg Assoc J** 1997 Mar; 58(3):236–41

An evaluation of respirator maintenance requirements. Brosseau LM, et al. **Am Ind Hyg Assoc J** 1997 Mar; 58(3):242–6

World Health Organization issues guidelines for drug donations [news] **Am J Health Syst Pharm** 1996 Nov 1; 53(21):2556, 2558

Treatment guidelines, national formulary take shape in VA system [news] **Am J Health Syst Pharm** 1996 Dec 15; 53(24):2950

Drafting guidelines for occupational exposure to chemicals: the Dutch experience with the assessment of reproductive risks. Stijkel A, et al. **Am J Ind Med** 1996 Dec;30(6):705–17

Guidelines to determine the route of oophorectomy with hysterectomy. Kovac SR, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1483–8

Ethically justified guidelines for defining sexual boundaries between obstetrician-gynecologists and their patients. McCullough LB, et al. **Am J Obstet Gynecol** 1996 Aug; 175(2):496–500

Use of the Internet for obstetricians and gynecologists. McKeown MJ. **Am J Obstet Gynecol** 1997 Feb; 176(2):271–4

A written guideline implementation can lead to reductions in laboratory testing in an intensive care unit. Mehari SM, et al. **Anaesth Intensive Care** 1997 Feb;25(1):33–7

Diagnostic guidelines in central nervous system Whipple's disease [see comments] Louis ED, et al. **Ann Neurol** 1996 Oct;40(4):561–8. Comment in: Ann Neurol 1997 Apr;41(4):560–1. Comment in: Ann Neurol 1997 Apr;41(4):561–2.

Guidelines for prophylaxis of cytomegalovirus disease in bone marrow transplant patients. Badas A, et al. **Ann Pharmacother** 1996 Dec;30(12):1483–6

Sterilisation. Past confusions and current recommendations. Magennis A. **Aust Fam Physician** 1996 Dec;25(12):1825–9

Patient-provider agreement on guidelines for preparation for breast cancer treatment. Schofield MJ, et al. **Behav Med** 1997 Spring;23(1):36–45

Guidelines for drug donations. Hogerzeil HV, et al. **BMJ** 1997 Mar 8;314(7082):737–40

Eye protection for PUVA patients [letter] Diffey BL. **Br J Dermatol** 1996 Oct;135(4):654–5

Terminology: 'national clinical guideline' [letter] Muir J. **Br J Orthod** 1996 Aug;23(3):276

Guidance on ill health retirement. Poole CJ. **Br J Rheumatol** 1997 May;36(5):573–6 (18 ref.)

Moderate drinking and health. Implications of recent evidence. Ashley MJ, et al. **Can Fam Physician** 1997 Apr; 43:687–94 (85 ref.)

The PMAC code of marketing practices: time for improvement? Pharmaceutical Manufacturers Association of Canada [editorial; comment] [see comments] Desjardins JG. **Can Med Assoc J** 1997 Feb 1;156(3):363–4. Comment on: Can Med Assoc J 1997 Feb 1;156(3):351–6. Comment in: Can Med Assoc J 1997 Apr 1;156(7):982–3.

Regulating pharmaceutical advertising: what will work? [editorial; comment] [see comments] Shapiro MF. **Can Med Assoc J** 1997 Feb 1;156(3):359–61. Comment on: Can Med Assoc J 1997 Feb 1;156(3):351–6. Comment in: Can Med Assoc J 1997 Apr 1;156(7):982–3.

Perioperative cardiovascular evaluation for noncardiac surgery: congenital heart diseases and heart diseases in pregnancy deserve better guidelines [letter; comment] Weiss BM, et al. **Circulation** 1997 Jan 21;95(2):530–1. Comment on: Circulation 1996 Mar 15;93(6):1278–317.

A two-centre study to determine dentists' agreement with current guidelines on the frequency of bitewing radiography. Rushton VE, et al. **Community Dent Oral Epidemiol** 1996 Jun;24(3):175–81

Proposed guidelines for speakers discussing medications and other products. Daniel CR 3rd, et al. **Cutis** 1997 May; 59(5):271–2

Introduction to the biosafety guidelines for sorting of unfixed cells [editorial] Schmid I, et al. **Cytometry** 1997 Jun 1; 28(2):97–8

Biosafety guidelines for sorting of unfixed cells. Schmid I, et al. **Cytometry** 1997 Jun 1;28(2):99–117

Guidelines and standards: help or hindrance? [editorial] Suen KC. **Diagn Cytopathol** 1997 May;16(5):381–2

Guidelines on the risk for transmission of infectious agents during xenotransplants [news] Chapman LE. **Emerg Infect Dis** 1995 Oct–Dec;1(4):156

Recommendations for a regional strategy for the prevention and control of emerging infectious diseases in the Americas [news] Epstein DB. **Emerg Infect Dis** 1995 Jul–Sep; 1(3):103–5

Purpose and guidelines for toxicokinetic studies within the National Toxicology Program. Buchanan JR, et al. **Environ Health Perspect** 1997 May;105(5):468–71 (4 ref.)

Guidelines for reporting morbidity and mortality after cardiac valvular operations. Edmunds LH Jr, et al. **Eur J Cardiothorac Surg** 1996;10(9):812–6

Guidelines for reports on validation studies [letter; comment] Burema J, et al. **Eur J Clin Nutr** 1995 Dec;49(12):932–33 . Comment on: Eur J Clin Nutr 1995 Apr;49(4):231–2.

World Federation of Surgical Oncology Societies. Surgical Oncology training programme guidelines. Temple WJ, et al. **Eur J Surg Oncol** 1996 Oct;22(5):538–9

Comparison of guidelines and self-management plans in asthma. Meijer RJ, et al. **Eur Respir J** 1997 May; 10(5):1163–72 (45 ref.)

Guidelines for international collaborative research. Rosser WW, et al. **Fam Pract** 1997 Aug;14(4):330–4 (14 ref.)

Implementation of EPA Revised Cancer Assessment Guidelines: Incorporation of Mechanistic and Pharmacokinetic Data. Page NP, et al. **Fundam Appl Toxicol** 1997 May;37(1):16–36

Immunizations: which guidelines should a physician use? [letter; comment] Gainer RB. **Geriatrics** 1996 Dec; 51(12):12, 14. Comment on: Geriatrics 1996 Sep;51(9):47–52; quiz 53.

Making the best use of a department of clinical radiology—guidelines for doctors. Needham G. **Health Bull (Edinb)** 1996 Sep;54(5):406–9

Prevention. Employers get a clue. Montague J. **Hosp Health Netw** 1997 Mar 20;71(6):80, 82

Isolation [published erratum appears in Infect Control Hosp Epidemiol 1997 Apr;18(4):236] Edmond M. **Infect Control Hosp Epidemiol** 1997 Jan;18(1):58–64 (12 ref.)

Perspectives on immunotoxicity regulatory guidelines. Harling RJ. **Inflamm Res** 1996 Dec;45 Suppl 2:S69–73 (14 ref.)

Proposal for hand-arm vibration exposure limits adopted for Japanese workers operating hand-held vibration tools. Mirbod SM, et al. **Int Arch Occup Environ Health** 1997; 69(6):418–22 (25 ref.)

New guidelines for drug donations [news] **Int Nurs Rev** 1996 Jul–Aug;43(4):99

The role of national skill standards in the design of core curriculum in allied health. DaVanzo JE. **J Allied Health** 1997 Spring;26(2):71–6 (18 ref.)

Occupational exposure to HIV: new recommendations for treating health care workers. Goldschmidt RH, et al. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):455–8 (10 ref.)

A randomized trial of "corollary orders" to prevent errors of omission. Overhage JM, et al. **J Am Med Inform Assoc** 1997 Sep–Oct;4(5):364–75

Members oppose AVMA's guidelines for alternative and complementary veterinary medicine [letter] [see comments] Anderson BC. **J Am Vet Med Assoc** 1996 Nov 15; 209(10):1687. Comment in: J Am Vet Med Assoc 1997 Jan 15;210(2):168; discussion 169–70. Comment in: J Am Vet Med Assoc 1997 Jan 15;210(2):168–9; discussion 169–70. Comment in: J Am Vet Med Assoc 1997 Jan 15;210(2):169; discussion 169–70.

Facilitating pet ownership through improved housing design.

Jackson VS. **J Am Vet Med Assoc** 1996 Sep 15; 209(6):1076–9

Members oppose AVMA's guidelines for alternative and complementary veterinary medicine [letter] [see comments] Roberts SJ. **J Am Vet Med Assoc** 1996 Nov 15; 209(10):1687–8. Comment in: J Am Vet Med Assoc 1997 Jan 15;210(2):168; discussion 169–70. Comment in: J Am Vet Med Assoc 1997 Jan 15;210(2):168–9; discussion 169–70. Comment in: J Am Vet Med Assoc 1997 Jan 15;210(2):169; discussion 169–70.

Prioritizing guidelines for health education message design. Hugo J. **J Audiov Media Med** 1996 Dec;19(4):171–4

Developing and revising the American Heart Association guidelines for advanced cardiac life support. Kirby AK, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):15–23

Guidelines for antimicrobial prophylaxis. Nahata MC. **J Clin Pharm Ther** 1996 Aug;21(4):255–60

How the new NIH Guidelines on Inclusion of Women and Minorities apply: efficacy trials, effectiveness trials, and validity. Hohmann AA, et al. **J Consult Clin Psychol** 1996 Oct;64(5):851–5

The Total Health Care Audit System: a systematic methodology for clinical practice evaluation and development in NHS provider organizations. Miles A, et al. **J Eval Clin Pract** 1996 Feb;2(1):37–64 (53 ref.)

Guidelines for antihypertensive therapy [see comments] MacMahon S. **J Hypertens** 1996 Jun;14(6):691–3. Comment in: J Hypertens 1997 Jan;15(1):1–2.

Guidelines for antihypertensive therapy: problems with a strategy based on absolute cardiovascular risk. Simpson FO. **J Hypertens** 1996 Jun;14(6):683–9 (44 ref.)

Integration of trial, meta-analysis and cohort results with treatment guidelines. Ménard J, et al. **J Hypertens Suppl** 1996 Sep;14(2):S129–33; discussion S133–4 (33 ref.)

Huntington's disease predictive testing: the case for an assessment approach to requests from adolescents. Binedell J, et al. **J Med Genet** 1996 Nov;33(11):912–8 (49 ref.)

Graduate education in nursing: beyond essentials [editorial] Tanner CA. **J Nurs Educ** 1997 Feb;36(2):52–3

Screening for retinopathy of prematurity: do former guidelines still apply? Schalij-Delfos NE, et al. **J Pediatr Ophthalmol Strabismus** 1996 Jan–Feb;33(1):35–8

Compassionate care and comfort guidelines. Messenger GG. **J Perinatol** 1996 Jan–Feb;16(1):65–6

Response to "Developing practice guidelines for psychoanalysis," by S. H. Gray [letter] Cohen M. **J Psychother Pract Res** 1997 Winter;6(1):81–8

Drinking water and microbiological pathogens—issues and challenges for the year 2000. Hellard ME, et al. **J Public Health Med** 1997 Jun;19(2):129–31 (31 ref.)

Compliance with the recommendations of the Institute of medicine report, The Future of Public Health: a survey of local health departments. Scutchfield FD, et al. **J Public Health Policy** 1997;18(2):155–66

A survey of state health department compliance with the recommendations of the Institute of Medicine report, The Future of Public Health. Scutchfield FD, et al. **J Public Health Policy** 1997;18(1):13–29

Guidelines for school and community programs to promote lifelong physical activity among young people. National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and prevention. **J Sch Health** 1997 Aug;67(6):202–19 (276 ref.)

FIFRA Subdivision F testing Guidelines: are these tests adequate to detect potential hormonal activity for crop protection chemicals? Federal Insecticide, Fungicide, and Rodenticide Act. Stevens JT, et al. **J Toxicol Environ Health** 1997 Apr 11;50(5):415–31 (35 ref.)

Current status of implementation of the ICH guideline in Japan. Akaike M, et al. **J Toxicol Sci** 1996 Dec;21(5):439–49

Development of performance measures for seven chronic diseases. Health Outcomes Work Group of the Pharmaceutical Research and Manufacturers of America. Kotsanos JG. **Jt Comm J Qual Improv** 1997 Mar; 23(3):150–61

International guidelines and educational experiences in an out-patient clinic for asthma. Aiolfi S, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):477–81

Empirical antibiotic therapy and lower respiratory tract infections: European guidelines and current practices. Woodhead M. **Monaldi Arch Chest Dis** 1995 Dec; 50(6):472–6 (20 ref.)

The medicolegal guidelines. An invitation to resurrect and revise. Duvoisin A. **N C Med J** 1997 Sep–Oct;58(5):372

Public knowledge and attitudes towards the use of alcohol and drinking guidelines. Sellman JD, et al. **N Z Med J** 1996 Sep 13;109(1029):337–9

Experts attempt to redefine principles for treating HIV [news] Fox JL. **Nat Biotechnol** 1997 Jan;15(1):14–5

Korea leaps before it looks over gene therapy guidelines [news] Swinbanks D. **Nature** 1997 May 1;387(6628):6

Xenotransplantation trials 'should proceed but need guidelines' [news] Wadman M. **Nature** 1996 Jul 18; 382(6588):197

Data collection guidelines for questionnaires to be used in case-control studies of multiple sclerosis. Boiko A. **Neurology** 1997 Aug;49(2 Suppl 2):S75–80

Guidelines for physicians with patients on IFN beta-1b: the use of an assay for neutralizing antibodies (NAB) [comment] Paty DW, et al. **Neurology** 1996 Oct;47(4):865–6 . Comment on: Neurology 1996 Oct;47(4):889–94.

A new recommendation for physical activity as a means of health promotion. Burns KJ. **Nurse Pract** 1996 Sep;21(9):18, 21–2, 26–8 (25 ref.)

Compliance with the Australian Dietary Guidelines in the early 1990's: have population-based health promotion programs been effective? Turrell G. **Nutr Health** 1997; 11(4):271–88

Summary of the Surgeon General's report addressing physical activity and health. **Nutr Rev** 1996 Sep;54(9):280–4

PDA's commentary on FDA's "drug product guidance". **PDA J Pharm Sci Technol** 1996 Sep–Oct;50(5):277–9

PDA comments to USP on 'proposed changes to <71> sterility tests'. Fry EM. **PDA J Pharm Sci Technol** 1996 Mar–Apr;50(2):69–78

Practice parameters: what are they and why should we use them? Nazarian LF. **Pediatr Rev** 1997 Jul;18(7):219–20

Guidelines for consultation-liaison psychiatry training [letter; comment] Williams KS, et al. **Psychosomatics** 1996 Sep–Oct;37(5):489–90. Comment on: Psychosomatics 1996 Jan–Feb;37(1):3–11.

Public confidence in public health research ethics [comment] [see comments] Mariner WK. **Public Health Rep** 1997 Jan–Feb;112(1):33–6 (17 ref.). Comment on: Public Health Rep 1997 Jan–Feb;112(1):29–32. Comment in: Public Health Rep 1997 Jul–Aug;112(4):266.

Defining research when it comes to public health [see comments] Snider DE Jr, et al. **Public Health Rep** 1997 Jan–Feb;112(1):29–32 (19 ref.). Comment in: Public Health Rep 1997 Jan–Feb;112(1):33–6. Comment in: Public Health Rep 1997 Jul–Aug;112(4):266.

The Investigators' Brochure: a comparison of the draft international conference on harmonisation guideline with current Food and Drug Administration requirements. Cocchetto DM. **Qual Assur** 1995 Dec;4(4):240–6

Developing a consensus on quality criteria [editorial] DeWoskin RS. **Qual Assur** 1997 Jan–Mar;5(1):v–vii

GLP soil characterization—the laboratory. Isaman V. **Qual Assur** 1997 Jan–Mar;5(1):49–53

Biologically based validation of PC electrophysiology data collection systems utilizing the Good Automated Laboratory Practices. Jones RD, et al. **Qual Assur** 1997 Jan–Mar;5(1):1–17

A procedure for assessing a contract testing facility: one sponsor's perspective. Twitty MM, et al. **Qual Assur** 1997 Jan–Mar;5(1):61–8 (4 ref.)

A guide for technical query contributors. **Radiol Technol** 1997 May–Jun;68(5):432

Minimal requirements for test evaluation. Magid E. **Scand J Clin Lab Invest Suppl** 1997;227:90–4 (12 ref.)

Doctors' fees [editorial] Lim MK. **Singapore Med J** 1997 May;38(5):187–8

Disinfection: gaps between recommended and actual practice. Keah KC, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):795–8

Testicular toxicity: regulatory guidelines—the end of formaldehyde fixation? Harleman JH, et al. **Toxicol Pathol** 1997 Jul–Aug;25(4):414–7; discussion 418

Diet therapy guidelines for cats with chronic renal failure. Polzin DJ, et al. **Vet Clin North Am Small Anim Pract** 1996 Nov;26(6):1269–75 (24 ref.)

Comments on the paper 'World Association for the Advancement of Veterinary Parasitology (W.A.A.V.P.) Second Edition of Guidelines for Evaluating the Efficacy of Anthelmintics in Ruminants (Bovine, Ovine, Caprine)' [letter; comment] van Wyk JA, et al. **Vet Parasitol** 1997 Jul 1;70(4):283–8. Comment on: Vet Parasitol 1995 Jun;58(3):181–213.

Freedom from boredom [letter] [see comments] Ryder RD. **Vet Rec** 1996 Jun 8;138(23):576. Comment in: Vet Rec 1996 Jun 29;138(26):651.

WHO Expert Committee on Biological Standardization. Highlights of the 46th meeting, October 1996. **Wkly Epidemiol Rec** 1997 May 16;72(20):141–5 **(Eng, Fre)**

The Children's Vaccine Initiative and the Global Programme for Vaccines and Immunization. Recommendations from the Special Advisory Group of Experts. Part 1. **Wkly Epidemiol Rec** 1997 Aug 8;72(32):237–43 **(Eng, Fre)**

The Children's Vaccine Initiative and the Global Programme for Vaccines and Immunization. Recommendations from the Special Advisory Group of Experts. Part II. **Wkly Epidemiol Rec** 1997 Aug 15;72(33):249–51 **(Eng, Fre)**

Impact of National Cancer Institute revised mammography screening guidelines on women 40–49. Morton E, et al. **Womens Health Issues** 1996 Sep–Oct;6(5):246–54

[Role of diuretics in the treatment of hypertension: from large controlled trials to international guidelines] Chalmers J. **Arch Mal Coeur Vaiss** 1996 Sep;89 Spec No 4:39–43 (41 ref.) (Eng. Abstr.) **(Fre)**

[Ethical guidelines for scientific research in human individuals supported by FAPESP. Bioethics Group and Population Research] **Rev Assoc Med Bras** 1996 Jul–Sep; 42(3):167–8 (Eng. Abstr.) **(Por)**

[Usefulness of the guide of standards for the duration of processes of transient work disability published by Insalud for the attending physician] Berriochoa Martínez de Pisón C, et al. **Aten Primaria** 1996 Sep 30;18(5):248–52 (Eng. Abstr.) **(Spa)**

STANDARDS

The meaning and application of medical accreditation standards. Kassebaum DG, et al. **Acad Med** 1997 Sep; 72(9):808–18 (11 ref.)

Agency for Health Care Policy and Research clinical practice guidelines [see comments] Perfetto EM, et al. **Ann Pharmacother** 1996 Oct;30(10):1117–21 (14 ref.). Comment in: Ann Pharmacother 1996 Oct;30(10):1181.

Nehushtan: the Tower of Babel, diversity or guidelines. Goihman-Yahr M. **Int J Dermatol** 1997 May;36(5):338–9

Pharmacy Practice Acts: ghosts of pharmacy past. Prince V. **J Am Pharm Assoc (Wash)** 1996 Jul;NS36(7):411

Presenting and publishing case reports. Iles RL, et al. **J Clin Pharmacol** 1996 Jul;36(7):573–9

On guidelines for the management of the severe head injury [editorial] Kirkpatrick PJ. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):109–11

The concept of outcome. Hunt S. **Scand J Urol Nephrol Suppl** 1997;183:71–4

A call for consistency in definition of breastfeeding behaviors. Labbok MH, et al. **Soc Sci Med** 1997 Jun;44(12):1931–2

GUIDELINES FOR HEALTH PLANNING see **HEALTH PLANNING GUIDELINES**

GUILLAIN-BARRE SYNDROME see **POLYRADICULONEURITIS**

GUILT

Survivor guilt and chronic illness. Vamos M. **Aust N Z J Psychiatry** 1997 Aug;31(4):592–6

Conceptual and methodological issues in the assessment of shame and guilt. Tangney JP. **Behav Res Ther** 1996 Sep; 34(9):741–54 (85 ref.)

The evolution of social attractiveness and its role in shame, humiliation, guilt and therapy. Gilbert P. **Br J Med Psychol** 1997 Jun;70 (Pt 2):113–47 (140 ref.)

Interpersonal guilt: the development of a new measure. O'Connor LE, et al. **J Clin Psychol** 1997 Jan;53(1):73–89

Chronic and predispositional guilt: relations to mental health, prosocial behavior, and religiosity. Quiles ZN, et al. **J Pers Assess** 1997 Aug;69(1):104–26

Guilt and shame in recovering addicts. A personal account. Merritt P. **J Psychosoc Nurs Ment Health Serv** 1997 Jul; 35(7):46–9

Guilt about first intercourse: an antecedent of sexual dissatisfaction among college women. Moore NB, et al. **J Sex Marital Ther** 1997 Spring;23(1):29–46

Development and validation of the sources of trauma-related guilt survey-war-zone version. Kubany ES, et al. **J Trauma Stress** 1997 Apr;10(2):235–58

Decision making in delinquency cases: the role of race and juveniles' admission/denial of the crime. Ruback RB, et al. **Law Hum Behav** 1997 Feb;21(1):47–69

Generic prejudice and the presumption of guilt in sex abuse trials. Vidmar N. **Law Hum Behav** 1997 Feb;21(1):5–25

Current thinking on cerebral palsy [letter] Kuritzky L, et al. **Nurse Pract** 1996 Feb;21(2):20,22

The shadow of object love: reconstructing Freud's theory of preoedipal guilt. Ury C. **Psychoanal Q** 1997 Jan; 66(1):34–61

Sex differences in pathological gambling using gaming machines. Ohtsuka K, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):1051–7

GUINEA PIGS

New isolation of Leishmania enriettii Muniz and Medina, 1948 in Paranástate, Brazil, 50 years after the first description, and isoenzymatic polymorphism of the L. enriettii taxon. Thomaz-Soccol V, et al. **Ann Trop Med Parasitol** 1996 Oct;90(5):491–5

CD3-SmIg-lymphoblastic leukaemia in an outbred domestic guinea pig. Day MJ, et al. **Aust Vet J** 1997 Mar;75(3):217–8

Mange induced by Trixacarus caviae in a guinea pig. Fuentealba C, et al. **Can Vet J** 1996 Dec;37(12):749–50

Non-specific hyperreactivity related to the use of Freund's complete adjuvant [letter; comment] Andersen KE, et al. **Contact Dermatitis** 1996 Aug;35(2):127. Comment on: Contact Dermatitis 1996 Feb;34(2):111–4.

Asymptomatic adenoviral respiratory tract infection in guinea pigs. Crippa L, et al. **Lab Anim Sci** 1997 Apr; 47(2):197–9

Diagnostic exercise: granulomatous encephalitis in guinea pigs. Wan CH, et al. **Lab Anim Sci** 1996 Apr;46(2):228–30

[Acute glycoside intoxication from the intake of oleander (Nerium oleander) leaves in a guinea pig] Kirsch M. **Tierarztl Prax** 1997 Jul;25(4):398–400 (Eng. Abstr.) **(Ger)**

ANATOMY & HISTOLOGY

GABA- and glycine-immunoreactive projections from the superior olivary complex to the cochlear nucleus in guinea pig. Ostapoff EM, et al. **J Comp Neurol** 1997 May 19; 381(4):500–12

Morphological subclasses of lateral olivocochlear terminals? Ultrastructural analysis of inner spiral bundle in cat and guinea pig. Satake M, et al. **J Comp Neurol** 1996 Aug 5; 371(4):621–32

Origins and targets of commissural connections between the

cochlear nuclei in guinea pigs. Schofield BR, et al. **J Comp Neurol** 1996 Nov 4;375(1):128–46

Comparative analysis of insulo–acinar portal system in rats, guinea pigs, and dogs. Ohtani O, et al. **Microsc Res Tech** 1997 Jun 1–15;37(5–6):489–96

Ultrastructural study of the cytoskeleton of optic nerve axons in guinea pigs as revealed by a quick–freezing, deep–etching method. Ou B, et al. **Ophthalmic Res** 1996; 28(1):29–35

Neuroendocrine cells in the prostate of the rat, guinea pig, cat, and dog. Angelsen A, et al. **Prostate** 1997 Sep 15; 33(1):18–25

BLOOD

Guinea pig serum contains a specific high affinity growth hormone–binding protein with novel ligand specificity [see comments] Ymer SI, et al. **Endocrinology** 1997 Sep; 138(9):3577–86. Comment in: Endocrinology 1997 Sep;138(9):3575–6.

The effects of met–enkephaline, leu–enkephaline and tuftsine on guinea pig peritoneal granulocyte functions in vitro. Godlewski A, et al. **Folia Morphol (Warsz)** 1996;55(4):251–2

CLASSIFICATION

Phylogenetic position of guinea pigs revisited [letter] Cao Y, et al. **Mol Biol Evol** 1997 Apr;14(4):461–4

GROWTH & DEVELOPMENT

Postnatal development of nuclei mamillare in guinea pig (Cavia porcellus L.). Robak A. **Folia Morphol (Warsz)** 1996; 55(4):425–7

IMMUNOLOGY

The dynamics of inflammation of the anterior eye in a novel experimental model for hypersensitivity. Nitzan Y, et al. **Cytobios** 1996;88(353):105–17

Natural killer and lectin–dependent cytotoxic activities of Kurloff cells: target cell selectivity, conjugate formation, and Ca++ dependency. Pouliot N, et al. **Inflammation** 1996 Dec;20(6):647–71

METABOLISM

Oxygen consumption in the avascular guinea pig retina. Cringle S, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1162–5

Guinea pig intestinal phospholipase B: protein expression during enterocyte maturation and effects of N–oligosaccharide removal on enzymatic activities and protein stability. Delagebeaudeuf C, et al. **Biochim Biophys Acta** 1996 Sep 27;1303(2):119–26

Kappa opioid receptor–like immunoreactivity in guinea pig brain: ultrastructural localization in presynaptic terminals in hippocampal formation. Drake CT, et al. **J Comp Neurol** 1996 Jul 1;370(3):377–95

Localization of NADPH diaphorase/nitric oxide synthase in the optic nerve of the normal guinea pig: a light and electron microscopic study. Qi X, et al. **J Comp Neurol** 1996 Jul 1;370(3):396–404

Measurement of salivary cortisol in guinea pigs. Fenske M. **J Exp Anim Sci** 1996 Aug;38(1):13–9

Sequence and functional analysis of cloned guinea pig and rat serotonin 5–HT1D receptors: common pharmacological features within the 5–HT1D receptor subfamily. Wurch T, et al. **J Neurochem** 1997 Jan;68(1):410–8

Differential distribution of neuropeptide Y Y1 and Y2 receptors in rat and guinea–pig brains. Gehlert DR, et al. **Neuroscience** 1997 Jan;76(1):215–24

Moderate alcohol consumption and vitamin C status in the guinea–pig and the rat. Zloch Z, et al. **Physiol Res** 1995; 44(3):173–8

Influence of 3,4–dihydroxybenzoic acid on metal ion concentrations in guinea pig tissues after copper intoxication. Kotsaki–Kovatsi VP, et al. **Vet Hum Toxicol** 1997 Aug;39(4):211–4

Transport of propionate across the distal colonic epithelium of guinea pig in the presence and absence of bicarbonate and of chloride. von Engelhardt W, et al. **Zentralbl Veterinarmed A** 1997 Apr;44(2):73–8

MICROBIOLOGY

Bacterial killing by use of once daily gentamicin dosage in guinea pigs with Escherichia coli infection. Campbell BG, et al. **Am J Vet Res** 1996 Nov;57(11):1627–30

PARASITOLOGY

[Cytochemical study on the activity of enzymes in trophozoites of Entamoeba histolytica from the cecum of guinea pigs with invasive and non–invasive amebiasis] Kuźna–Grygiel W. **Wiad Parazytol** 1996;42(4):407–14 (Eng. Abstr.) **(Pol)**

PHYSIOLOGY

Carbohydrate composition of stereociliary glycocalyx of the utricle of guinea pig inner ear. Suzuki H, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):12–6

Role of carotid bodies in the guinea–pig. Cragg PA, et al. **Adv Exp Med Biol** 1996;410:377–81

Growth without a pituitary?—Lessons from the guinea pig [editorial; comment] Baumann G. **Endocrinology** 1997 Sep; 138(9):3575–6. Comment on: Endocrinology 1997 Sep;138(9):3577–86.

Properties of peroxisomes from jerboa (Jaculus orientalis). el Kebbaj MS, et al. **Eur J Cell Biol** 1996 Jun;70(2):150–6

Frequency tuning and acoustic enhancement of electrically evoked otoacoustic emissions in the guinea pig cochlea. Kirk DL, et al. **J Acoust Soc Am** 1996 Dec;100(6):3714–25

Steady–state sinusoidal velocity responses of the basilar membrane in guinea pig. Nuttall AL, et al. **J Acoust Soc Am** 1996 Mar;99(3):1556–65

Sensory innervation of the guinea pig extraocular muscles: a 1,1'–dioctadecyl–3,3,3',3'–tetramethylindocarbocyanine perchlorate tracing and calcitonin gene–related peptide immunohistochemical study. Aigner M, et al. **J Comp Neurol** 1997 Mar 31;380(1):16–22

Three electrophysiological classes of guinea pig sympathetic postganglionic neurone have distinct morphologies. Boyd HD, et al. **J Comp Neurol** 1996 Jun 3;369(3):372–87

Sex ratio and litter size in the guinea–pig. Peaker M, et al. **J Reprod Fertil** 1996 Sep;108(1):63–7

Evaluation of anaesthetic regimens in guineapigs. Radde GR, et al. **Lab Anim** 1996 Jul;30(3):220–7

Does long–term potentiation occur in guinea–pig Deiters' nucleus? Caria MA, et al. **Neuroreport** 1996 Oct 2; 7(14):2303–7

The role of the external nucleus of the inferior colliculus in the construction of the superior collicular auditory space map in the guinea–pig. Thornton SK, et al. **Neurosci Res** 1996 Jul;25(3):239–46

An anatomically adapted, injury–free headholder for guinea pigs. Haidarliu S. **Physiol Behav** 1996 Jul;60(1):111–4

VIROLOGY

Polymerase chain reaction for detection of guinea pig adenovirus. Pring–Akerblom P, et al. **J Vet Diagn Invest** 1997 Jul;9(3):232–6

A serological indication of the existence of a guineapig poliovirus. Hansen AK, et al. **Lab Anim** 1997 Jul; 31(3):212–8

GUINEA WORM see **DRACUNCULUS**

GUINEA WORM INFECTION see **DRACUNCULIASIS**

L–GULARIC ACID see **GLUCARIC ACID**

GULF WAR SYNDROME see **PERSIAN GULF SYNDROME**

GUM ACACIA see **GUM ARABIC**

GUM ARABIC

ADMINISTRATION & DOSAGE

An enteral formula containing fish oil, indigestible oligosaccharides, gum arabic and antioxidants affects plasma and colonic phospholipid fatty acid and prostaglandin profiles in pigs. Campbell JM, et al. **J Nutr** 1997 Jan;127(1):137–45

CHEMISTRY

A comparison of the physicochemical and immunological properties of the plant gum exudates of Acacia senegal (gum arabic) and Acacia seyal (gum tahla). Menzies AR, et al. **Food Addit Contam** 1996 Nov–Dec;13(8):991–9

PHARMACOLOGY

Gum arabic promotes rat jejunal sodium and water absorption from oral rehydration solutions in two models of diarrhea. Wapnir RA, et al. **Gastroenterology** 1997 Jun; 112(6):1979–85

THERAPEUTIC USE

Oral rehydration solutions: enhanced sodium absorption with gum arabic. Wapnir RA, et al. **J Am Coll Nutr** 1996 Aug; 15(4):377–82

Apple fiber and gum arabic lowers total and low–density lipoprotein cholesterol levels in men with mild hypercholesterolemia. Mee KA, et al. **J Am Diet Assoc** 1997 Apr;97(4):422–4

GUM KARAYA see **KARAYA GUM**

GUM TRAGACANTH see **TRAGACANTH**

GUMBORO DISEASE VIRUS see **INFECTIOUS BURSAL DISEASE VIRUS**

GUMS see **GINGIVA**

GUNS see **FIREARMS**

GUNTHER'S DISEASE see **PORPHYRIA, ERYTHROPOIETIC**

GUPPY see **POECILIA**

GUT GLUCAGON see **ENTEROGLUCAGON**

GYMNASTICS

Influence of high impact loading on ultrasound bone measurements in children: a cross–sectional report. Daly RM, et al. **Calcif Tissue Int** 1997 May;60(5):401–4

Working with young athletes: views of a nutritionist on the sports medicine team. Benardot D. **Int J Sport Nutr** 1996 Jun;6(2):110–20

Eating disorders, energy intake, training volume, and menstrual function in high–level modern rhythmic gymnasts. Sundgot–Borgen J. **Int J Sport Nutr** 1996 Jun; 6(2):100–9

The method of stimulated serial repetitions of gymnastic exercises in therapy of autistic children [letter] Szot Z. **J Autism Dev Disord** 1997 Jun;27(3):341–2

Physique as a risk factor for ulnar variance in elite female gymnasts. Claessens A L, et al. **Med Sci Sports Exerc** 1996 May;28(5):560–9

Validity of bioelectrical impedence equations for estimating fat–free weight in high school female gymnasts. Eckerson JM, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):962–8

[Preliminary analysis of the modifications of spinal curves, in extreme amplitudes, observed in rhythmic and athletic gymnastics] Vanneuville G, et al. **Bull Assoc Anat (Nancy)** 1996 Mar;80(248):33–5 (Eng. Abstr.) **(Fre)**

INJURIES

Posterior element pain in a adolescent schoolgirl. Batt ME, et al. **Br J Sports Med** 1996 Dec;30(4):356–8

Residents' corner. Answer to case of the month #45. Stress changes of the distal radial physis. Frizzell JB, et al. **Can Assoc Radiol J** 1997 Feb;48(1):54–5

Avulsion of the tibial tuberosity: muscles too strong for a growth plate. Maffulli N, et al. **Clin J Sport Med** 1997 Apr;7(2):129–32; discussion 132–3

Evaluation of kinesthetic deficits indicative of balance control in gymnasts with unilateral chronic ankle sprains. Forkin DM, et al. **J Orthop Sports Phys Ther** 1996 Apr; 23(4):245–50

An arthroscopic and electromyographic study of painful shoulders in elite gymnasts. Caraffa A, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(1):39–42

Wrist pain in a young gymnast: unusual radiographic findings and MRI evidence of growth plate injury. DiFiori JP, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):1453–8

Physical and emotional problems of elite female gymnasts [letter; comment] Glueck MA. **N Engl J Med** 1997 Jan 9;336(2):141. Comment on: N Engl J Med 1996 Jul 25;335(4):281–3.

Bilateral Achilles tendon rupture: a report on two cases. Orava S, et al. **Scand J Med Sci Sports** 1996 Oct;6(5):309–12

[Sports medicine aspects of gymnastics] Konrad G, et al. **Sportverletz Sportschaden** 1997 Mar;11(1):35–7 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Cellular and humoral immune response to exercise among gymnasts and untrained girls. Eliakim A, et al. **Int J Sports Med** 1997 Apr;18(3):208–12

Resting metabolic rate and energy intake in female gymnasts, figure–skaters and soccer players. Fogelholm GM, et al. **Int J Sports Med** 1995 Nov;16(8):551–6

The control of non–twisting somersaults using configuration changes. Yeadon MR, et al. **J Biomech** 1996 Oct; 29(10):1341–8

A comparison of techniques used by elite gymnasts in performing the basket–to–handstand mount. Takei Y, et al. **J Sports Sci** 1996 Jun;14(3):269–79

A 'kickout' double salto backward tucked dismount from the horizontal bar performed by elite gymnasts. Takei Y, et al. **J Sports Sci** 1997 Aug;15(4):411–25

An arthroscopic and electromyographic study of painful shoulders in elite gymnasts. Caraffa A, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(1):39–42

Knee joint proprioception: a comparison between female intercollegiate gymnasts and controls. Lephart SM, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(2):121–4

Bone mineral density in elite 7– to 9–yr–old female gymnasts and swimmers. Cassell C, et al. **Med Sci Sports Exerc** 1996 Oct;28(10):1243–6

Gymnastic training and bone density in pre–adolescent females. Dyson K, et al. **Med Sci Sports Exerc** 1997 Apr; 29(4):443–50

Age, fat–free weight, and isokinetic peak torque in high school female gymnasts. Housh TJ, et al. **Med Sci Sports Exerc** 1996 May;28(5):610–3

Experience with perceptual and motor skills in rhythmic gymnastics. Kioumourtzoglou E, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1363–72

PSYCHOLOGY

Physical and emotional problems of elite female gymnasts [letter; comment] Dresler CM. **N Engl J Med** 1997 Jan 9;336(2):140; discussion 141. Comment on: N Engl J Med 1996 Jul 25;335(4):281–3.

Physical and emotional problems of elite female gymnasts [letter; comment] Forbes K. **N Engl J Med** 1997 Jan 9; 336(2):140; discussion 141. Comment on: N Engl J Med 1996 Jul 25;335(4):281–3.

Physical and emotional problems of elite female gymnasts

[letter; comment] O'Connor PJ, et al. **N Engl J Med** 1997 Jan 9;336(2):140–1; discussion 141. Comment on: N Engl J Med 1996 Jul 25;335(4):281–3.

STANDARDS

Gymnastics: changing for the better? Forbes K. **Br J Sports Med** 1997 Jun;31(2):94

TRENDS

Gymnastics: changing for the better? Forbes K. **Br J Sports Med** 1997 Jun;31(2):94

GYMNODINIUM see **DINOFLAGELLIDA**

GYMNOTID see **ELECTRIC FISH**

GYNANDROBLASTOMA see **NEOPLASMS, GONADAL TISSUE**

GYNECOLOGIC DISEASES see **GENITAL DISEASES, FEMALE**

GYNECOLOGIC NEOPLASMS see **GENITAL NEOPLASMS, FEMALE**

GYNECOLOGY

see related
GENITAL DISEASES, FEMALE
REPRODUCTIVE MEDICINE

Scandinavian urogynecology. Current status and visions for the future. Lose G, et al. **Acta Obstet Gynecol Scand** 1996 Aug;75(7):603–4

Proceedings of the Vth Baltic Conference on Obstetrics and Gynecology. Malmö, Sweden, May 25–27, 1995. **Acta Obstet Gynecol Scand Suppl** 1997;164:1–136

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 1. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 1:1–119

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 2. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 2:1–103

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 3. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 3:1–118

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 4. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 4:1–103

XV FIGO World Congress of Gynecology and Obstetrics. Copenhagen, Denmark, 3–8 August 1997. Abstracts. Part 5. **Acta Obstet Gynecol Scand Suppl** 1997;167 Pt 5:1–96

Responding to the ethical challenges posed by the business tools of managed care in the practice of obstetrics and gynecology. Chervenak FA, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):523–7 (10 ref.)

Women: our responsibility to them. Dignam WJ. **Am J Obstet Gynecol** 1997 Apr;176(4):736–40

Optimism for perilous times: a survey of American Association of Obstetricians and Gynecologists Foundation and Reproductive Scientist Development Program postdoctoral research fellows. Dudley DJ. **Am J Obstet Gynecol** 1997 Apr;176(4):814–8

Interobserver and intraobserver reliability of the proposed International Continence Society, Society of Gynecologic Surgeons, and American Urogynecologic Society pelvic organ prolapse classification system [see comments] Hall AF, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1467–70; discussion 1470–1. Comment in: Am J Obstet Gynecol 1997 Jul;177(1):248.

Primary care by obstetricians and gynecologists: attitudes of the members of The South Atlantic Association of Obstetricians and Gynecologists. Higgins RV, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):311–7; discussion 317–8

Statistics usage in the American Journal of Obstetrics and Gynecology [letter; comment] Hogan JW. **Am J Obstet Gynecol** 1997 May;176(5):1118–9. Comment on: Am J Obstet Gynecol 1996 Nov;175(5):1138–41.

Ethically justified guidelines for defining sexual boundaries between obstetrician–gynecologists and their patients. McCullough LB, et al. **Am J Obstet Gynecol** 1996 Aug; 175(2):496–500

Use of the Internet for obstetricians and gynecologists. McKeown MJ. **Am J Obstet Gynecol** 1997 Feb; 176(2):271–4

Career paths of obstetricians and gynaecologists trained at the Royal Women's Hospital, Melbourne. Ratten G. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):74–5

Late termination of pregnancy in North Holland [see comments] Bosma JM, et al. **Br J Obstet Gynaecol** 1997 Apr;104(4):478–87. Comment in: Br J Obstet Gynaecol 1997 Apr;104(4):398–400.

What changes in the organisation of cancer services will improve the outcome for women with ovarian cancer? Woodman C, et al. **Br J Obstet Gynaecol** 1997 Feb; 104(2):135–9

What is the right operation for stress incontinence? A gynaecological view. Stanton SL. **Br J Urol** 1997 Jul;80 Suppl 1:84–7 (11 ref.)

Geriatric gynecologic care of minorities. Haynes MO. **Clin Obstet Gynecol** 1996 Dec;39(4):946–58 (31 ref.)

Endoscopic surgery. **Curr Opin Obstet Gynecol** 1997 Aug; 9(4):B117–23

Adolescent obstetrics and gynecology: children having children—can it be controlled? Plouffe L Jr, et al. **Curr Opin Obstet Gynecol** 1996 Oct;8(5):335–8 (21 ref.)

Obstetric and gynecologic emergencies. Nadel E, et al. **Emerg Med Clin North Am** 1997 May;15(2):389–97 (49 ref.)

History, role and future goals of the European Society of Gynaecological Oncology [editorial] Onnis A. **Eur J Gynaecol Oncol** 1996;17(6):475–9

Proceedings of the 11th European Association of Gynaecologists and Obstetricians Congress. Budapest, Hungary, 19–21 June 1996. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):103–227

Neither Adam nor Eve seems worth very much anymore [editorial; comment] Berman ML. **Gynecol Oncol** 1997 Mar; 64(3):369–71. Comment on: Gynecol Oncol 1997 Mar;64(3):372–7.

Is Adam worth more than Eve? The financial impact of gender bias in the federal reimbursement of gynecological procedures [see comments] Goff BA, et al. **Gynecol Oncol** 1997 Mar;64(3):372–7. Comment in: Gynecol Oncol 1997 Mar;64(3):369–71.

Gynaecological nursing. McQueen A. **J Adv Nurs** 1997 Apr; 25(4):767–74

Presidential address. "I, the patient"—consideration of our patients' rights. Cohen BM. **J Am Assoc Gynecol Laparosc** 1994 Feb;1(2):97–102

Coding and reimbursement for obstetric–gynecologic services [see comments] Griffin LP. **J Am Assoc Gynecol Laparosc** 1995 Feb;2(2):125–9. Comment in: J Am Assoc Gynecol Laparosc 1995 Aug;2(4):493–5.

Operative laparoscopy: American Association of Gynecologic Laparoscopists' 1993 membership survey. Hulka J, et al. **J Am Assoc Gynecol Laparosc** 1995 Feb; 2(2):133–6

Laparoscopic sterilization: American Association of Gynecologic Laparoscopists' 1993 membership survey. Hulka JF, et al. **J Am Assoc Gynecol Laparosc** 1995 Feb; 2(2):137–8

Operative hysteroscopy: American Association of Gynecologic Laparoscopists' 1993 membership survey. Hulka JF, et al. **J Am Assoc Gynecol Laparosc** 1995 Feb; 2(2):131–2

Dr. Griffin's special article on CPT coding, RBRVS, and reimbursement issues [letter; comment] Redwine DB. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4):493–5. Comment on: J Am Assoc Gynecol Laparosc 1995 Feb;2(2):125–9.

Attitudes and beliefs of family physicians and gynecologists in relation to the prevention and treatment of osteoporosis. Suarez-Almazor M, et al. **J Bone Miner Res** 1997 Jul; 12(7):1100–7

HIV infection in obstetrics and gynaecology. Bhattacharyya PK. **J Indian Med Assoc** 1997 Jan;95(1):14, 26

Opinions in pediatric and adolescent gynecology. Hillard P, et al. **J Pediatr Adolesc Gynecol** 1996 Nov;9(4):209–11

Efficacy of Interceed in adhesion prevention in gynecologic surgery: a review of 13 clinical studies. Larsson B. **J Reprod Med** 1996 Jan;41(1):27–34 (40 ref.)

Society for Gynecologic Investigation 44th annual meeting. San Diego, California, March 19–22, 1997. Abstracts. **J Soc Gynecol Investig** 1997 Jan–Feb;4(1 Suppl):79A–290A

Society for Gynecologic Investigation 43rd annual meeting. Philadelphia, Pennsylvania, March 20–23, 1996. Abstracts. **J Soc Gynecol Investig** 1996 Mar–Apr;3(2 Suppl):1A–402A

Research resources for Ob/Gyn. Wootton JC. **J Womens Health** 1997 Feb;6(1):123–5

Attitudes and clinical practice of Italian gynecologists towards prophylactic oophorectomy during hysterectomy for benign conditions. Mezzopane R, et al. **Maturitas** 1996 Jul;24(3):157–9

Treatment of continuous data as categoric variables in Obstetrics and Gynecology. Del Priore G, et al. **Obstet Gynecol** 1997 Mar;89(3):351–4

Patient satisfaction with collaborative practice. Hankins GD, et al. **Obstet Gynecol** 1996 Dec;88(6):1011–5

Systematic reviews of medical evidence: the use of meta-analysis in obstetrics and gynecology. Peipert JF, et al. **Obstet Gynecol** 1997 Apr;89(4):628–33

Attitudes of obstetrician–gynecologists toward DNA testing for a genetic susceptibility to breast cancer. Rowley PT, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):611–5

Treatment of depression by obstetrician–gynecologists: a survey study. Schmidt LA, et al. **Obstet Gynecol** 1997 Aug; 90(2):296–300

Obstetrician–gynecologists as primary care physicians: the perspectives of health maintenance organization medical directors and obstetrician–gynecologists. Scroggs JA, et al. **Obstet Gynecol** 1997 Aug;90(2):291–5

Relevance of molecular medicine to clinical obstetrics and gynecology. Cohen DP, et al. **Obstet Gynecol Surv** 1997 Jan;52(1):73–80 (29 ref.)

Only generalists can do primary care well [letter] Garrison RL. **Tex Med** 1996 Feb;92(2):12–4

Primary care study needs follow up [letter] Uretsky G. **Tex Med** 1996 Feb;92(2):11–2; discussion 14

Presentation of the Ian Donald Gold Medal to Juriy Wladimiroff. Campbell S. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):208–9

Presentation of the Ian Donald Medal for Technical Development to Tom Brown. Campbell S. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):208–9

The gynecological care experience of adult survivors of childhood sexual abuse: a preliminary investigation. Robohm JS, et al. **Women Health** 1996;24(3):59–75

HIV infection and physician responsibilities: a commentary on the ACOG ethics committee opinion #130. Brown D, et al. **Womens Health Issues** 1996 Mar–Apr;6(2):106–8

[A gynecologist/obstetrician on the Internet] Møller LB. **Ugeskr Laeger** 1997 Jun 2;159(23):3565–6 **(Dan)**

[Nature and its laws] Sureau C. **Contracept Fertil Sex** 1997 Feb;25(2):133–5 **(Fre)**

[51st Congress of the German Society for Gynecology and Obstetrics. Dresden, 1–5 October 1996. Abstracts] **Arch Gynecol Obstet** 1996;258 Suppl 1:S1–239 **(Ger)**

[Idol or undesirable person. Fantasy and real images of the gynecologist] Buddeberg C. **Arch Gynecol Obstet** 1996;259 Suppl 1:S33–5 **(Ger)**

[The older woman in gynecologic practice] von Blarer R. **Arch Gynecol Obstet** 1996;259 Suppl 1:S21–3 **(Ger)**

[The study group for Information Processing in Gynecology and Obstetrics—Section of the German Society of Gynecology and Obstetrics e. V. (AIG): Responsibilities and current projects] Seufert R, et al. **Zentralbl Gynakol** 1997;119(8):396–7 (Eng. Abstr.) **(Ger)**

[The 48th Congress of the Japan Society of Obstetrics and Gynecology, Yokohama City, Japan. April 6–9, 1996. Abstracts] **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Feb; 48 Suppl:S1–521 **(Jpn)**

[Health policy leadership. American College of Obstetricians and Gynecologists] Wilbanks GD. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug; 48(8):689–93 **(Jpn)**

Acta Obstetrica et Gynecologica Scandinavica. An international scientific medical specialty journal from Scandinavia] Bergsjø P. **Nord Med** 1996 Nov;111(9):322 **(Nor)**

[Influence of the Mexican Federation of Gynecology and Obstetrics on the development of gynecology and obstetrics] Ahued Ahued JR. **Ginecol Obstet Mex** 1996 Sep;64:385–91 **(Spa)**

[Gynecology and obstetrics and the health system reform in Mexico] Espinosa de los Reyes-S VM. **Ginecol Obstet Mex** 1996 Jul;64:343–6 (Eng. Abstr.) **(Spa)**

ECONOMICS

Gender bias? Or is it really less work to care for women? [editorial] Harer WB Jr. **Obstet Gynecol Surv** 1996 Sep; 51(9):507–8

EDUCATION

Pelvic examination instruction and experience: a comparison of laywoman-trained and physician-trained students. Kleinman DE, et al. **Acad Med** 1996 Nov;71(11):1239–43

Three student manuals for obstetric and gynecologic outpatient care. Chez RA. **Am J Obstet Gynecol** 1997 May; 176(5):1112–5

Evaluation of postdoctoral physician–scientist training programs in obstetrics and gynecology. Creasy RK. **Am J Obstet Gynecol** 1996 Aug;175(2):494–5

New surgical procedures: can our patients benefit while we learn? Gates EA. **Am J Obstet Gynecol** 1997 Jun; 176(6):1293–8; discussion 1298–9

An obstetric and gynecologic clerkship's influence on a medical community. The Washington, Alaska, Montana, and Idaho Anchorage obstetric and gynecologic clerkship. Hanson HB. **Am J Obstet Gynecol** 1997 Jun;176(6):1363–5; discussion 1366–7

Obstetrics and gynaecology in the developing world [letter; comment] Gunasekera PC, et al. **Br J Obstet Gynaecol** 1996 Nov;103(11):1171. Comment on: Br J Obstet Gynaecol 1996 Jun;103(6):491–3.

Preparing obstetricians and gynecologists for capitation. Huey JR Jr, et al. **Clin Obstet Gynecol** 1997 Jun; 40(2):427–36 (12 ref.)

A family medicine teaching program for obstetrics–gynecology residents. Yen EY, et al. **Fam Med** 1997 Mar;29(3):199–203

ESHRE guidelines for training, accreditation and monitoring in gynaecological endoscopy. European Society for Human Reproduction and Embryology. Committee of Special Interest Group on Reproductive Surgery. Chapron C, et al. **Hum Reprod** 1997 Apr;12(4):867–8

ACOG committee opinion. Ethical issues in obstetric–gynecologic education. Number 181, April 1997. Committee on Ethics. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1997 Jun; 57(3):327–30

They practice what we teach: more on adolescent health care in pediatric practice [letter; comment] Stevens-Simon C. **J Adolesc Health** 1997 Jul;21(1):2. Comment on: J Adolesc Health 1996 Dec;19(6):394–400.

Surgical procedures performed in the setting of a residency training program [letter] Pelosi MA 3rd, et al. **J Am Assoc Gynecol Laparosc** 1996 May;3(3):484–5

The HysteroTrainer, a simulator for diagnostic and operative hysteroscopy. Wallwiener D, et al. **J Am Assoc Gynecol Laparosc** 1994 Nov;2(1):61–3

The effect of sexual experience on the attitudes of medical students to learning gynecological examinations. Abraham

S. **J Psychosom Obstet Gynaecol** 1996 Mar;17(1):15–20
Order of rotation in third-year clerkships. Influence on academic performance. Hampton HL, et al. **J Reprod Med** 1996 May;41(5):337–40
Strengthening research in Departments of Obstetrics and Gynecology [editorial] Bissonnette J, et al. **J Soc Gynecol Investig** 1997 May–Jun;4(3):115–22
Self-marking in written examination: a way of feedback and learning. Löfgren M, et al. **Med Educ** 1996 Sep;30(5):322–5
Pelvic manikins as learning aids. Macintosh MC, et al. **Med Educ** 1997 May;31(3):194–6
The passing score in the objective structured clinical examination. Morrison H, et al. **Med Educ** 1996 Sep; 30(5):345–8
Should abortion training be a requirement of obstetrics and gynecology residencies? Bowes WA. **N C Med J** 1996 Mar–Apr;57(2):108–11
Statistics for the Residency Review Committee: a clear windows approach. Duff P, et al. **Obstet Gynecol** 1997 Jun; 89(6):1031–4
A profile of directors of clerkships in obstetrics and gynecology in the United States and Canada. Magrane DM, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):785–9
Are residents' work schedules related to their in-training examination scores? Riggs JW, et al. **Obstet Gynecol** 1996 Nov;88(5):891–4
An approach to teaching ethical, legal, and psychosocial aspects of gynecologic oncology in a residency program. Strong C, et al. **Obstet Gynecol** 1997 Jan;89(1):142–4
Undergraduate teaching of obstetrics and gynaecology for the 21st century. Cuthbert Crichton Memorial Lecture, 19 November 1993 [editorial] Elstein M. **S Afr Med J** 1995 Oct;85(10 Suppl):1066, 1068
[Obstetrics-gynecology training (letter; comment)] Lécuru F, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996; 25(8):866. Comment on: J Gynecol Obstet Biol Reprod (Paris) 1996;25(4):336–9. **(Fre)**
["Others talk about it...we do it". Quality assurance for graduate and continuing education (editorial)] Haller U, et al. **Gynakol Geburtshilfliche Rundsch** 1996;36(3):115–7 **(Ger)**
[An attempt to qualify and quantify scientific congresses (editorial)] Reinold E, et al. **Gynakol Geburtshilfliche Rundsch** 1996;36(2):61–2 **(Ger)**
[Recommendations by the Gynecologic Endoscopy Working Group of the German Society of Gynecology and Obstetrics for graduate and continuing education in surgical endoscopy] **Zentralbl Gynakol** 1996;118(2):117–9 **(Ger)**
[Postgraduate training in gynecology and obstetrics. Results of an individual national survey of interns] Lourenço AV, et al. **Acta Med Port** 1996 Jul–Sep;9(7–9):253–8 (Eng. Abstr.) **(Por)**
[Preoccupation women have and should have in watching their health] Hollis RS. **Ginecol Obstet Mex** 1997 Jun; 65:243–6 (Eng. Abstr.) **(Spa)**
[Teaching in English is both stimulating and inhibitory. Basic clinical course as part of the EEC project] Darj E, et al. **Lakartidningen** 1997 Jan 15;94(3):126–8 **(Swe)**

HISTORY

My fifty-year odyssey in obstetrics and gynecology. Loring TW. **Am J Obstet Gynecol** 1997 Jun;176(6):1244–9
The diagnostic value of vaginal smears in carcinoma of the uterus. 1941 [classical article] Papanicolaou GN, et al. **Arch Pathol Lab Med** 1997 Mar;121(3):211–24
History of gynecological pathology. II. Dr. William H. Sternberg. Roth LM, et al. **Int J Gynecol Pathol** 1997 Jan; 16(1):81–5
Howard Atwood Kelly (1858–1943). Bent AE. **Int Urogynecol J Pelvic Floor Dysfunct** 1996;7(1):48–61
Soranus's notion of sympathy and the modern patient: challenges for medical methodology. Dickson PI. **Pharos** 1997 Winter;60(1):7–12
The history of ultrasound in gynecology 1950–1980. Levi S. **Ultrasound Med Biol** 1997;23(4):481–552
[Obstetrics and gynecology in the last 40 years] Janssens J. **Ned Tijdschr Geneeskd** 1997 Jan 4;141(1):26–32 (Eng. Abstr.) **(Dut)**
[Vaginal speculum: the developmental history of a gynecologic instrument] Thiery M. **Verh K Acad Geneeskd Belg** 1997;59(1):13–8 (Eng. Abstr.) **(Dut)**
[Selmar Aschheim (1878–1965) and Bernhard Zondek (1891–1966). On the fate of 2 Jewish physicians and researchers at the Berlin Charité Hospital] Schneck P. **Z Arztl Fortbild Qualitatssich** 1997 Mar;91(2):187–94 (Eng. Abstr.) **(Ger)**
[100th anniversary of the Hungarian Association of Gynecologists] Szállási A. **Orv Hetil** 1996 Nov 3; 137(44):2469–70 **(Hun)**
[History of the Department of Gynecologic Diseases at the Academy of Military Medicine in Belgrade] Majstorović J, et al. **Vojnosanit Pregl** 1996 Jan–Feb;53(1):65–8 **(Scc)**

INSTRUMENTATION

Diagnostic accuracy of 2 mm microlaparoscopy. Haeusler G, et al. **Acta Obstet Gynecol Scand** 1996 Aug;75(7):672–5
Minilaparotomies with a new special instrument [letter; comment] Prievara TF, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1078–9. Comment on: Am J Obstet Gynecol 1995 Dec;173(6):1727–9; discussion 1729–30.
Synthetic sling for genital prolapse in young women. Banu LF. **Int J Gynaecol Obstet** 1997 Apr;57(1):57–64
Are ureteral catheters in gynecologic surgery beneficial or hazardous? Quinlan DJ, et al. **J Am Assoc Gynecol Laparosc** 1995 Nov;3(1):61–5
From the Centers for Disease Control and Prevention. Evaluation of blunt suture needles in preventing percutaneous injuries among health-care workers during gynecologic surgical procedures---New York City, March 1993–June 1994. **JAMA** 1997 Feb 12;277(6):451–2
Evaluation of blunt suture needles in preventing percutaneous injuries among health-care workers during gynecologic surgical procedures---New York City, March 1993–June 1994. **MMWR Morb Mortal Wkly Rep** 1997 Jan 17; 46(2):25–9
Uroflowmetry: now an affordable tool for every gynaecologist [letter] Brenner B. **N Z Med J** 1997 Sep 12;110(1051):343
Sacrospinous ligament colpopexy: new instrumentation applied to a standard gynecologic procedure. Watson JD. **Obstet Gynecol** 1996 Nov;88(5):883–5
Reprocessing of the vaginal probe between patients. Goldstein SR. **Ultrasound Obstet Gynecol** 1996 Feb; 7(2):92–3
[Vaginal speculum: the developmental history of a gynecologic instrument] Thiery M. **Verh K Acad Geneeskd Belg** 1997;59(1):13–8 (Eng. Abstr.) **(Dut)**
[Ultrasound experience and apparatus of Swiss gynecologists. Results of a written survey] Zimmerman R, et al. **Arch Gynecol Obstet** 1996;259 Suppl 1:S111–7 **(Ger)**

LEGISLATION & JURISPRUDENCE

Management of intermenstrual and postcoital bleeding, and an appreciation of the issues arising out of the recent case of O'Shea versus Sullivan and Macquarie pathology. Fraser IS, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):67–73
Litigation in obstetrics and gynaecology has increased in Merseyside [letter] Alderman B. **BMJ** 1997 Feb 22; 314(7080):607
A clinical analysis of 500 medico-legal claims evaluating the causes and assessing the potential benefit of alternative dispute resolution. B-Lynch C, et al. **Br J Obstet Gynaecol** 1996 Dec;103(12):1236–42
Medico-legal aspects of ureteric damage during abdominal hysterectomy [see comments] Brudenell M. **Br J Obstet Gynaecol** 1996 Dec;103(12):1180–3. Comment in: Br J Obstet Gynaecol 1997 Jun;104(6):753.
Medico-legal aspects of ureteric damage during abdominal hysterectomy [letter] Nzewi C, et al. **Br J Obstet Gynaecol** 1997 Apr;104(4):507
How to avoid litigation: the urologist's view. Smith JC. **Br J Urol** 1997 Jul;80 Suppl 1:33–4
Legal issues in pediatric gynecology. May JW. **Clin Obstet Gynecol** 1997 Mar;40(1):241–53 (19 ref.)
Liability risks in gynaecology and obstetrics under German and Austrian law. Bernat E. **Med Law** 1995;14(5–6):413–23 (63 ref.)
Direct access to ob/gyns is about women, not turf [letter] Strathy JH. **Minn Med** 1997 Jul;80(7):4–5
Re: Skoumal SM, Maygarden SJ. Malpractice in gynecologic cytology: a need for expert witness guidelines. Mod Pathol 1997;10:267–9 [letter] Albukerk J. **Mod Pathol** 1997 Aug; 10(8):853

MANPOWER

Doctors leaving the training grades in obstetrics and gynaecology: a study of the years 1985 to 1988 [see comments] Atkins J, et al. **Br J Obstet Gynaecol** 1996 Dec; 103(12):1243–6. Comment in: Br J Obstet Gynaecol 1997 Jun;104(6):759.
Doctors leaving the training grades in obstetrics and gynaecology: a study of the years 1985 to 1988 [letter; comment] Skillern L. **Br J Obstet Gynaecol** 1997 Jun; 104(6):759. Comment on: Br J Obstet Gynaecol 1996 Dec;103(12):1243–6.
[Episiotomy: can its habitual use be defended? A study of 100 puerperae and a group of gynecologists and midwives] Ciolli P, et al. **Minerva Ginecol** 1997 May;49(5):187–91 (Eng. Abstr.) **(Ita)**

METHODS

Surgery for genitourinary prolapse and stress incontinence: a randomized trial of posterior pubourethral ligament plication and Pereyra suspension. Colombo M, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):337–43
Clinical utility of saline solution infusion sonohysterography in a primary care obstetric-gynecologic practice. Laughead MK, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1313–6; discussion 1316–8
Metaanalysis for the obstetrician-gynecologist. Thacker SB, et al. **Am J Obstet Gynecol** 1996 May;174(5):1403–7
Pediatric & adolescent gynecology. Pokorny S. **Compr Ther** 1997 May;23(5):337–44 (12 ref.)
Cellular and molecular biology in urogynaecology. Blakeman P, et al. **Curr Opin Obstet Gynecol** 1996 Oct;8(5):357–60 (37 ref.)
Urogynaecology [editorial] Stanton SL. **Curr Opin Obstet Gynecol** 1996 Oct;8(5):355–6 (11 ref.)
Managed care of hormone replacement therapy in the menopause. Wardle PG. **Curr Opin Obstet Gynecol** 1997 Aug;9(4):270–7 (64 ref.)
Surgical management of carcinoma of the cervical stump. A case report. Maseela T, et al. **Eur J Gynaecol Oncol** 1996;17(5):381–3 (9 ref.)
Gynecologic endoscopic gas embolism. Corson SL, et al. **Fertil Steril** 1996 Mar;65(3):529–33
Transverse colon urinary diversion in gynecologic oncology. Segreti EM, et al. **Gynecol Oncol** 1996 Oct;63(1):66–70
Laparoscopic suturing and ligation techniques. Pasic R, et al. **J Am Assoc Gynecol Laparosc** 1995 Nov;3(1):67–79 (25 ref.)
Laparoscopic-assisted vaginal hysterectomy with bilateral oophorectomy versus total abdominal hysterectomy and bilateral salpingo-oophorectomy---implications for gynecologic practice in the United Kingdom. Raju KS, et al. **J Am Assoc Gynecol Laparosc** 1994 Feb;1(2):111–5
Centering: reducing rape trauma syndrome anxiety during a gynecologic examination. Dole PJ. **J Psychosoc Nurs Ment Health Serv** 1996 Oct;34(10):32–7
The effects of hemodialysis on total intrauterine volume. Brost BC, et al. **Ultrasound Obstet Gynecol** 1996 Jul; 8(1):34–6
The routine use of ultrasound in the gynecological visit [editorial] Goldstein SR. **Ultrasound Obstet Gynecol** 1996 Dec;8(6):369–70
Report from the first Kenneth Gottesfeld-Charles Hohler Memorial Foundation conference on obstetric and gynecological ultrasound. Platt LD, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):356–61
[Laparoscopic surgery without insufflation in gynecology] d'Ercole C, et al. **Contracept Fertil Sex** 1996 Oct; 24(10):723–6 (22 ref.) **(Fre)**
[Evaluation of the basis for elective appendectomy in gynecologic laparotomy] Grys E, et al. **Ginekol Pol** 1996 Jul;67(7):357–60 (Eng. Abstr.) **(Pol)**
[Pros and cons of elective appendectomy in gynecologic laparotomy] Grys E, et al. **Ginekol Pol** 1996 Jul;67(7):361–5 (30 ref.) (Eng. Abstr.) **(Pol)**

ORGANIZATION & ADMINISTRATION

Managed care: a ball control game. Blythe JG. **Am J Obstet Gynecol** 1997 Jun;176(6):1125–9
Managed health care's approach to infertility. Cohen A. **Clin Obstet Gynecol** 1997 Jun;40(2):420–6 (5 ref.)
The spectrum of managed care model types. Fabius R. **Clin Obstet Gynecol** 1997 Jun;40(2):391–4 (0 ref.)
A performance-based compensation model for obstetricians/gynecologists. Hanchak NA. **Clin Obstet Gynecol** 1997 Jun;40(2):437–45
Preparing obstetricians and gynecologists for capitation. Huey JR Jr, et al. **Clin Obstet Gynecol** 1997 Jun; 40(2):427–36 (12 ref.)
Obstetrics/gynecology network development. Krieg KA. **Clin Obstet Gynecol** 1997 Jun;40(2):446–52 (5 ref.)
Obstetrician/gynecologist as primary care physician in managed health care. Pritzker J. **Clin Obstet Gynecol** 1997 Jun;40(2):402–13 (21 ref.)
Looking down the prospectoscope: obstetrics/gynecology in the year 2000 and beyond. Sanfilippo J. **Clin Obstet Gynecol** 1997 Jun;40(2):395–401 (0 ref.)
Managed care in gynecologic oncology. Cohen CJ, et al. **Curr Opin Obstet Gynecol** 1996 Aug;8(4):325–8 (13 ref.)
Managed care in benign gynecology. Gambone JC, et al. **Curr Opin Obstet Gynecol** 1996 Aug;8(4):314–8 (11 ref.)
Managed care in benign gynecology. Montz FJ. **Curr Opin Obstet Gynecol** 1997 Aug;9(4):267–9 (15 ref.)
Managed care in reconstructive pelvic surgery and urogynecology. Strohbehn K. **Curr Opin Obstet Gynecol** 1996 Aug;8(4):319–24 (27 ref.)
[Practical gynecology in the African bush: from humanitarianism to humanism] Géraud R, et al. **Contracept Fertil Sex** 1997 Jun;25(6):482–91 (28 ref.) **(Fre)**
[Future organization of oncologic gynecology: results of an international survey] Vergote IB, et al. **Contracept Fertil Sex** 1997 Mar;25(3):XIX–XXIV **(Fre)**
[The future of gynecology-obstetrics in Europe] Lansac J. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(3):329–32 (Eng. Abstr.) **(Fre)**

STANDARDS

Computerized quality assurance in nongynecologic cytology [letter] Hayes JA, et al. **Acta Cytol** 1996 Sep–Oct; 40(5):1114–5
Quality assurance in endoscopic surgery. Lindblom B, et al. **Acta Obstet Gynecol Scand Suppl** 1997;164:78–80
The gynecologist's perspective of liability and quality issues with the Papanicolaou smear. Greer BE. **Arch Pathol Lab Med** 1997 Mar;121(3):246–9 (30 ref.)
Assessments of girl's genital findings and the likelihood of sexual abuse: agreement among physicians self-rated as skilled. Paradise JE, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):883–91
Management of intermenstrual and postcoital bleeding, and an appreciation of the issues arising out of the recent case of O'Shea versus Sullivan and Macquarie pathology. Fraser IS, et al. **Aust N Z J Obstet Gynaecol** 1996 Feb;36(1):67–73
Internal and external measures of quality assurance in gynecological surgery. Selbmann HK, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):223–7
FIGO Committee for the study of ethical aspects of human

reproduction. Guidelines regarding informed consent. International Federation of Gynecology and Obstetrics. Schenker JG. **Ginekol Pol** 1996 Nov;67(11):581–2

FIGO committee for the study of ethical aspects of human reproduction. Violence against women. International Federation of Gynecology and Obstetrics. Schenker JG. **Ginekol Pol** 1996 Nov;67(11):583–4

FIGO committee for the study of ethical aspects of human reproduction. Ethical aspects in the management of the severely malformed fetus. International Federation of Gynecology and Obstetrics. Schenker JG. **Ginekol Pol** 1996 Nov;67(11):585–6

Is there a need for more standardization in urogynecology? [editorial; comment] Koelbl H.
Int Urogynecol J Pelvic Floor Dysfunct 1996;7(2):63. Comment on: Int Urogynecol J Pelvic Floor Dysfunct 1996;7(2):105–8.

Credentialing: the hot potato is in our hands [editorial] Hulka JF. **J Am Assoc Gynecol Laparosc** 1997 Aug;4(4):413–5

Evidence-based practice guidelines: a current perspective [editorial] Zinberg S. **Obstet Gynecol Surv** 1997 May; 52(5):265–6

Reregistration of gynaecologists in South Africa—results of a 1-year trial run. Cronjé HS, et al. **S Afr Med J** 1997 Feb;87(2):139–41

Quality assurance in obstetric and gynecological ultrasound in Hungary [editorial] Papp Z.
Ultrasound Obstet Gynecol 1996 May;7(5):305–6

[Medical consensus practice guidelines in gynecology-obstetrics] Lansac J.
J Gynecol Obstet Biol Reprod (Paris) 1997;26(2):124–30 (3 ref.) **(Fre)**

STATISTICS & NUMERICAL DATA

How do New Zealand gynaecologists treat menorrhagia? Farquhar CM, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):444–7

Operative laparoscopy: American Association of Gynecologic Laparoscopists, 1993 membership survey. Levy BS, et al. **J Am Assoc Gynecol Laparosc** 1994 Aug; 1(4 Pt 1):301–5

Obstetric and gynaecological patients in an intensive care unit: a 1 year review. Platteau P, et al. **Trop Doct** 1997 Oct;27(4):202–6

TRENDS

Postreproductive gynecology: meeting the present and future needs of women. Hurt WG. **Am J Obstet Gynecol** 1996 Aug;175(2):243–7

For what we stand. Kohorn EI. **Am J Obstet Gynecol** 1996 Dec;175(6):1414–7

The future role of the gynaecologist in women's health care. Ursing I. **Arch Gynecol Obstet** 1996;259 Suppl 1:S1–3

A plan for the future of obstetrics and gynaecology in Europe. Beard RW. **Eur J Obstet Gynecol Reprod Biol** 1997 May;73(1):5–9

Changing trends in the diagnosis of endometriosis: a comparative study of women with pelvic endometriosis presenting with chronic pelvic pain or infertility. Dmowski WP, et al. **Fertil Steril** 1997 Feb;67(2):238–43

Obstetrician-gynecologists and the public health [editorial; comment] Johnson TR. **Int J Gynaecol Obstet** 1997 May; 57(2):123–6. Comment on: Int J Gynaecol Obstet 1997 May;57(2):127–32.

The first century of urogynecology and reconstructive pelvic surgery: where do we go from here? Presidential Address, 21st Annual Clinical Meeting, International Urogynecological Association, Vienna, Austria, 2–5 September 1996. Drutz HP.
Int Urogynecol J Pelvic Floor Dysfunct 1996;7(6):348–53

Gynecologic endoscopy 2000+. Panel held at the World Congress of Endoscopy. San Francisco, California, November 12, 1993. Cohen BM, et al.
J Am Assoc Gynecol Laparosc 1994 Feb;1(2):177–82

Presidential message. The challenge of the 1990s and beyond. Levy BS. **J Am Assoc Gynecol Laparosc** 1994 Nov;2(1):5–6

5th French-speaking Congress on Coelo-Surgery. Deauville, France, 10–11 April 1997. Abstracts.
J Gynecol Obstet Biol Reprod (Paris) 1997;26 Suppl 1:7–34 **(Eng, Fre)**

Hospitalization for abnormal uterine bleeding: what does this tell us about changing practices? [editorial; comment] LaGuardia KD. **J Womens Health** 1997 Feb;6(1):7–9. Comment on: J Womens Health 1997 Feb;6(1):73–81.

Obstetrics and gynecology. DeCherney AH, et al. **JAMA** 1997 Jun 18;277(23):1878–9

What's new in ... obstetrics and gynecology. Wigton TR. **Wis Med J** 1996 Sep;95(9):647–8

[Change in relations between gynecologist and the patient] Bossart H. **Arch Gynecol Obstet** 1996;259 Suppl 1:S4–5 **(Fre)**

[Research in gynecology today (editorial)] Schneider H. **Gynakol Geburtshilfliche Rundsch** 1996;36(4):183–7 **(Ger)**

[Current Trends in Operative Endoscopy. Proceedings of the 6th International Symposium. Heidelberg, March 8–12, 1995] **Zentralbl Gynakol** 1996;118(2):49–119 **(Ger)**

["Is the face of gynecology changing?!-- A perspective"] Huber JC. **Zentralbl Gynakol** 1996;118(7):387–91 **(Ger)**

GYNECOMASTIA

[Gynecomastia in the internal disease clinic] Kukhtevich AV, et al. **Klin Med (Mosk)** 1996;74(2):44–6 (18 ref.) **(Rus)**

[Gynecomastia] Sopena M, et al. **Rev Med Univ Navarra** 1997 Apr-Jun;41(2):42–50 (54 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

[Re: A case from practice (359) (letter; comment)] Mindermann T. **Schweiz Rundsch Med Prax** 1997 Feb 4; 86(6):215. Comment on: Schweiz Rundsch Med Prax 1996 Oct 29;85(44):1417–8. **(Ger)**

CHEMICALLY INDUCED

Gynecomastia with antipsychotics [letter] Storch DD.
J Am Acad Child Adolesc Psychiatry 1997 Feb;36(2):161–2

Gynecomastia with metoclopramide use in pediatric patients. Madani S, et al. **J Clin Gastroenterol** 1997 Mar;24(2):79–81

Finasteride induced gynecomastia. Carlin BI, et al.
J Urol 1997 Aug;158(2):547

Gynecomastia as a complication of chemotherapy for testicular germ cell tumors. Aki FT, et al. **Urology** 1996 Dec;48(6):944–6

ETIOLOGY

Evaluation and treatment of gynecomastia. Neuman JF.
Am Fam Physician 1997 Apr;55(5):1835–44, 1849–50 (28 ref.)

Gynecomastia following spinal cord disorder. Heruti RJ, et al. **Arch Phys Med Rehabil** 1997 May;78(5):534–7

Gynaecomastia in onchocerciasis [letter] Okello DO, et al. **Lancet** 1997 May 3;349(9061):1298

[A rare cause of gynecomastia in a more than 70-year-old man. Case report and differential diagnostic considerations] Schürmeyer TH, et al. **Fortschr Med** 1997 Jul 20; 115(20–21):40–3 (Eng. Abstr.) **(Ger)**

[Gynecomastia—uniform pathogenesis, multiple etiologies. Comment on the contribution by W. Krause and B. Splieth: Diseases of the male breast (letter; comment)] Schnuch A. **Hautarzt** 1996 Nov;47(11):871–2. Comment on: Hautarzt 1996 Jun;47(6):422–6. **(Ger)**

[Swelling of the breast gland in puberty] Ziegler R.
Hautarzt 1996 Aug;47(8):642 **(Ger)**

[A case from practice (359). 1.Gynecomastia 2. Status following right-sided nephrectomy in renal tuberculosis 3. Recurrent microhematuria in bladder papilloma (see comments)] Gut C. **Schweiz Rundsch Med Prax** 1996 Oct 29;85(44):1417–8. Comment in: Schweiz Rundsch Med Prax 1997 Feb 4;86(6):215. **(Ger)**

[Endocrinologic problems of the male adolescent] Reina C, et al. **Pediatr Med Chir** 1996 Sep-Oct;18(5 Suppl):9–13 (11 ref.) (Eng. Abstr.) **(Ita)**

[Two new Leydig cell testicular tumors presenting with gynecomastia in adults] Raventós Busquets CX, et al.
Actas Urol Esp 1996 Oct;20(9):823–8 (Eng. Abstr.) **(Spa)**

[Gynecomastia and Leydig cell tumor] Catalá Bauset M, et al. **An Med Interna** 1997 Mar;14(3):131–4 (21 ref.) (Eng. Abstr.) **(Spa)**

[Gynecomastia and Leydig cell tumor, clinically occult] Nubiola Calonge A, et al. **Arch Esp Urol** 1996 Sep; 49(7):763–6 (Eng. Abstr.) **(Spa)**

GENETICS

Report of an XX male with hypospadias and pubertal gynecomastia, SRY gene negative in blood leukocytes but SRY gene positive in testicular cells. Dardis A, et al.
Horm Res 1997;47(2):85–8

METABOLISM

Aromatase and steroid receptors in gynecomastia and male breast carcinoma: an immunohistochemical study. Sasano H, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):3063–7

PATHOLOGY

"Diabetic mastopathy" in the male breast—a special type of gynecomastia. A comparative study of lymphocytic mastitis and gynecomastia. Hunfeld KP, et al. **Pathol Res Pract** 1997;193(3):197–205

SURGERY

[Gynecomastia] Cianchetti E, et al. **Ann Ital Chir** 1996 Jul-Aug;67(4):495–9; discussion 499–500 (Eng. Abstr.) **(Ita)**

THERAPY

Evaluation and treatment of gynecomastia. Neuman JF.
Am Fam Physician 1997 Apr;55(5):1835–44, 1849–50 (28 ref.)

Gynecomastia. Braunstein GD, et al.
Curr Ther Endocrinol Metab 1997;6:401–4 (5 ref.)

GYPSIES

Diet and hygiene in the lives of Gypsy Travellers in Hertfordshire. Edwards DM, et al.
Community Dent Health 1997 Mar;14(1):41–6

A founder mutation in the gamma-sarcoglycan gene of gypsies possibly predating their migration out of India. Piccolo F, et al. **Hum Mol Genet** 1996 Dec;5(12):2019–22

Unimmunized Gypsy populations and implications for the eradication of poliomyelitis in Europe. Aylward RB, et al. **J Infect Dis** 1997 Feb;175 Suppl 1:S86–8

[A seroepidemiological study on the level of immunological coverage in a nomadic population in Rome] Porta D, et al. **Epidemiol Prev** 1997 Jan-Mar;21(1):48–53 (Eng. Abstr.) **(Ita)**

[Epidemic outbreak of hepatitis B from the tattoo in gypsy families] Rosario Pac M, et al. **Rev Esp Salud Publica** 1996 Jan-Feb;70(1):63–9 (Eng. Abstr.) **(Spa)**

GENETICS

Semi-automatic DNA profiling in a Hungarian Romany population using the STR loci HumVWFA31, HumTH01, HumTPOX, and HumCSF1PO. Füredi S, et al.
Int J Legal Med 1997;110(4):184–7

Gene mapping in Gypsies identifies a novel demyelinating neuropathy on chromosome 8q24. Kalaydjieva L, et al.
Nat Genet 1996 Oct;14(2):214–7

GYPSUM see **CALCIUM SULFATE**

GYRATE ATROPHY

COMPLICATIONS

Association of thyroid disease with retinitis pigmentosa and gyrate atrophy. Whitcup SM, et al. **Am J Ophthalmol** 1996 Dec;122(6):903–5

Gyrate atrophy and choroidal neovascularization. Marano F, et al. **Arch Ophthalmol** 1996 Oct;114(10):1295

DIAGNOSIS

Skeletal muscle of patients with gyrate atrophy of the choroid and retina and hyperornithinaemia in ultralow-field magnetic resonance imaging and computed tomography. Valtonen M, et al. **J Inherit Metab Dis** 1996;19(6):729–34

GYRECTOMY see **PSYCHOSURGERY**

GYRUS CINGULI

[Dysexecutive syndrome and disorders of motor control in prefrontal mediobasal and cingulate lesions] Rousseaux M, et al. **Rev Neurol (Paris)** 1996 Aug-Sep;152(8–9):517–27 (Eng. Abstr.) **(Fre)**

ABNORMALITIES

Gelastic seizures in a child with focal cortical dysplasia of the cingulate gyrus. McConachie NS, et al.
Neuroradiology 1997 Jan;39(1):44–5

ANATOMY & HISTOLOGY

Anterior cingulate gyrus volume and glucose metabolism in autistic disorder [see comments] Haznedar MM, et al.
Am J Psychiatry 1997 Aug;154(8):1047–50. Comment in: Am J Psychiatry 1997 Aug;154(8):1043–5.

Human cingulate and paracingulate sulci: pattern, variability, asymmetry, and probabilistic map. Paus T, et al.
Cereb Cortex 1996 Mar-Apr;6(2):207–14

In vivo morphometry of the intrasulcal gray matter in the human cingulate, paracingulate, and superior-rostral sulci: hemispheric asymmetries, gender differences and probability maps. Paus T, et al. **J Comp Neurol** 1996 Dec 23;376(4):664–73

Organization of face representation in the cingulate cortex of the rhesus monkey. Morecraft RJ, et al. **Neuroreport** 1996 May 31;7(8):1343–8

Thalamocortical projection from the parafascicular nucleus to layer V pyramidal cells in frontal and cingulate areas of the rat. Marini G, et al. **Neurosci Lett** 1996 Jan 19; 203(2):81–4

The fimbria-fornix/cingular bundle pathways: a review of neurochemical and behavioural approaches using lesions and transplantation techniques. Cassel JC, et al.
Prog Neurobiol 1997 Apr;51(6):663–716 (556 ref.)

1H-magnetic resonance spectroscopy in obsessive-compulsive disorder: evidence for neuronal loss in the cingulate gyrus and the right striatum. Ebert D, et al. **Psychiatry Res** 1997 Jul 4;74(3):173–6

CHEMISTRY

Increased concentrations of presynaptic proteins in the cingulate cortex of subjects with schizophrenia. Gabriel SM, et al. **Arch Gen Psychiatry** 1997 Jun;54(6):559–66

Parvalbumin in the human anterior cingulate cortex: morphological heterogeneity of inhibitory interneurons. Kalus P, et al. **Brain Res** 1996 Aug 5;729(1):45–54

Glutamate and aspartate immunoreactivity in the reciprocal projections between the anterior thalamic nuclei and the retrosplenial granular cortex in the rat. Gonzalo-Ruiz A, et al. **Brain Res Bull** 1997;42(4):309–21

Immunohistochemical studies of localization and co-localization of glutamate, aspartate and GABA in the anterior thalamic nuclei, retrosplenial granular cortex, thalamic reticular nucleus and mammillary nuclei of the rat. Gonzalo-Ruiz A, et al. **J Chem Neuroanat** 1996 Dec; 12(2):77–84

Neurochemical, morphologic, and laminar characterization of cortical projection neurons in the cingulate motor areas

of the macaque monkey. Nimchinsky EA, et al. **J Comp Neurol** 1996 Oct 7;374(1):136–60

CYTOLOGY

Neurofilament and calcium-binding proteins in the human cingulate cortex. Nimchinsky EA, et al. **J Comp Neurol** 1997 Aug 11;384(4):597–620

Rapid kinetics and inward rectification of miniature EPSCs in layer I neurons of rat neocortex. Zhou FM, et al. **J Neurophysiol** 1997 May;77(5):2416–26

DRUG EFFECTS

Halothane and diazepam inhibit ketamine-induced c-fos expression in the rat cingulate cortex. Nakao S, et al. **Anesthesiology** 1996 Oct;85(4):874–82

Effect of sertraline on regional metabolic rate in patients with affective disorder. Buchsbaum MS, et al. **Biol Psychiatry** 1997 Jan 1;41(1):15–22

Reduction of autotomy following peripheral neurectomy by a single injection of bupivacaine into the cingulum bundle of rats. Magnusson JE, et al. **Brain Res** 1996 Jun 3; 723(1–2):214–7

Memantine induces heat shock protein HSP70 in the posterior cingulate cortex, retrosplenial cortex and dentate gyrus of rat brain. Tomitaka S, et al. **Brain Res** 1996 Nov 18; 740(1–2):1–5

Induction of heat-shock protein (HSP72) in the cingulate and retrosplenial cortex by drugs that antagonize the effects of excitatory amino acids. Lan JQ, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):297–302

Phenylglycines can evoke quisqualate-pri.ned depolarizations in rat cingulate cortex: an effect associated with [3H]DL-AP4 uptake. Sheardown MJ, et al. **Eur J Neurosci** 1996 Dec;8(12):2599–604

Altered neuronal distribution of parvalbumin in anterior cingulate cortex of rabbits exposed in utero to cocaine. Wang XH, et al. **Exp Brain Res** 1996 Dec;112(3):359–71

Isoflurane and propofol block neurotoxicity caused by MK-801 in the rat posterior cingulate/retrosplenial cortex. Jevtović-Todorović V, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):168–74

Influence of vitamin B12 on brain methionine adenosyltransferase activity in senile dementia of the Alzheimer's type. Gomes-Trolin C, et al. **J Neural Transm Gen Sect** 1996;103(7):861–72

Competitive and non-competitive NMDA receptor antagonists induce c-Fos expression in the rat anterior, cingulate cortex. Wędzony K, et al. **J Physiol Pharmacol** 1996 Sep;47(3):525–33

Structural neurotoxicologic investigation of the glycine antagonist 5-nitro-6,7-dichloroquinoxalinedione (ACEA-1021). Auer RN. **Neurotoxicology** 1997; 18(1):53–62

GROWTH & DEVELOPMENT

Perineuronal sulfated proteoglycans, cell surface glycoproteins and dark neurons in the cingulate cortex of newborn and adult rats. Tsubouchi M, et al. **Acta Med Okayama** 1996 Dec;50(6):313–7

The role of the anterior cingulate in automatic and controlled processes: a developmental neuroanatomical study. Casey BJ, et al. **Dev Psychobiol** 1997 Jan;30(1):61–9

METABOLISM

Decreased anterior cingulate gyrus metabolic rate in schizophrenia. Haznedar MM, et al. **Am J Psychiatry** 1997 May;154(5):682–4

Anterior cingulate gyrus volume and glucose metabolism in autistic disorder [see comments] Haznedar MM, et al. **Am J Psychiatry** 1997 Aug;154(8):1047–50. Comment in: Am J Psychiatry 1997 Aug;154(8):1043–5.

Metabolic reduction in the posterior cingulate cortex in very early Alzheimer's disease. Minoshima S, et al. **Ann Neurol** 1997 Jul;42(1):85–94

Abnormalities in sustained attention and anterior cingulate metabolism in subjects with resistance to thyroid hormone. Matochik JA, et al. **Brain Res** 1996 Jun 3;723(1–2):23–8

Neurochemical development of the hippocampal region in the fetal rhesus monkey, III: calbindin-D28K, calretinin and parvalbumin with special mention of cajal-retzius cells and the retrosplenial cortex. Berger B, et al. **J Comp Neurol** 1996 Mar 18;366(4):674–99

Cholecystokinin peptides and receptor binding in Alzheimer's disease. Löfberg C, et al. **J Neural Transm Gen Sect** 1996; 103(7):851–60

Cingulate function in depression: a potential predictor of treatment response. Mayberg HS, et al. **Neuroreport** 1997 Mar 3;8(4):1057–61

PATHOLOGY

Pain processing in four regions of human cingulate cortex localized with co-registered PET and MR imaging. Vogt BA, et al. **Eur J Neurosci** 1996 Jul;8(7):1461–73

Gelastic seizures in a child with focal cortical dysplasia of the cingulate gyrus. McConachie NS, et al. **Neuroradiology** 1997 Jan;39(1):44–5

Altered distribution of parvalbumin-immunoreactive local circuit neurons in the anterior cingulate cortex of schizophrenic patients. Kalus P, et al. **Psychiatry Res** 1997 Aug 8;75(1):49–59

PHYSIOLOGY

Limbic thalamic, cingulate cortical and hippocampal neuronal correlates of discriminative approach learning in rabbits. Freeman JH Jr, et al. **Behav Brain Res** 1996 Oct; 80(1–2):123–36

Pressor and depressor sites are intermingled in the cingulate cortex of the rat. Fisk GD, et al. **Brain Res** 1997 Apr 18; 754(1–2):204–12

Electrical stimulation of the cingulum bundle and surrounding cortical tissue reduces formalin-test pain in the rat. Fuchs PN, et al. **Brain Res** 1996 Dec 16; 743(1–2):116–23

Stimulus-related and movement-related single-unit activity in rabbit cingulate cortex and limbic thalamus during performance of discriminative avoidance behavior. Kubota Y, et al. **Brain Res** 1996 May 20;721(1–2):22–38

Evidence for the involvement of the mammillary bodies and cingulum bundle in allocentric spatial processing by rats. Neave N, et al. **Eur J Neurosci** 1997 May;9(5):941–55

Phenylglycines can evoke quisqualate-primed depolarizations in rat cingulate cortex: an effect associated with [3H]DL-AP4 uptake. Sheardown MJ, et al. **Eur J Neurosci** 1996 Dec;8(12):2599–604

Long-term plasticity in cingulate cortex requires both NMDA and metabotropic glutamate receptor activation. Hedberg TG, et al. **Eur J Pharmacol** 1996 Aug 22; 310(1):19–27

Spontaneous object recognition and object location memory in rats: the effects of lesions in the cingulate cortices, the medial prefrontal cortex, the cingulum bundle and the fornix. Ennaceur A, et al. **Exp Brain Res** 1997 Mar; 113(3):509–19

Comparison of the neuronal activity in the SMA and the ventral cingulate cortex during prehension in the monkey. Cadoret G, et al. **J Neurophysiol** 1997 Jan;77(1):153–66

Single neurons in posterior cingulate cortex of behaving macaque: eye movement signals. Olson CR, et al. **J Neurophysiol** 1996 Nov;76(5):3285–300

Amygdalar lesions block discriminative avoidance learning and cingulothalamic training-induced neuronal plasticity in rabbits. Poremba A, et al. **J Neurosci** 1997 Jul 1; 17(13):5237–44

Frontal-subcortical circuits: the anatomic basis of executive, social and motivated behaviors. Masterman DL, et al. **J Psychopharmacol (Oxf)** 1997;11(2):107–14 (60 ref.)

Afferent projections to the cingulate cortex in albino rats: a study with a retrograde labeling method using fluoro-gold. Ahmed AK, et al. **Kobe J Med Sci** 1995 Dec; 41(6):247–55

Intra-retrosplenial cortical grafts of cholinergic neurons: functional incorporation and restoration of high affinity choline uptake. Li YJ, et al. **Neurochem Res** 1997 May; 22(5):589–95

Effects of orbital frontal and anterior cingulate lesions on object and spatial memory in rhesus monkeys. Meunier M, et al. **Neuropsychologia** 1997 Jul;35(7):999–1015

The effect of anterior thalamic and cingulate cortex lesions on object-in-place memory in monkeys. Parker A, et al. **Neuropsychologia** 1997 Aug;35(8):1093–102

Electrophysiological study of the connection between medial thalamus and anterior cingulate cortex in the rat. Hsu MM, et al. **Neuroreport** 1997 Aug 18;8(12):2701–7

Mediodorsal thalamic evoked responses in the rat prefrontal cortex: influence of the mesocortical DA system. Pirot S, et al. **Neuroreport** 1996 May 31;7(8):1437–41

Single neuron responses in the monkey anterior cingulate cortex during visual discrimination. Nishijo H, et al. **Neurosci Lett** 1997 May 16;227(2):79–82

Activation of left posterior cingulate gyrus by the auditory presentation of threat-related words: an fMRI study. Maddock RJ, et al. **Psychiatry Res** 1997 Aug 8;75(1):1–14

Pain affect encoded in human anterior cingulate but not somatosensory cortex. Rainville P, et al. **Science** 1997 Aug 15;277(5328):968–71

Illusion reveals pain locus in brain [news] Vogel G. **Science** 1996 Nov 22;274(5291):1301

PHYSIOPATHOLOGY

The role of the cingulate gyrus in depression: from functional anatomy to neurochemistry. Ebert D, et al. **Biol Psychiatry** 1996 Jun 15;39(12):1044–50 (56 ref.)

Ictal speech arrest and parasagittal lesions. Wieshmann UC, et al. **Eur Neurol** 1997;38(2):123–7

Changes in dopaminergic neurons of the mesocorticolimbic system in Parkinson's disease. Dymecki J, et al. **Folia Neuropathol** 1996;34(2):102–6

Effects of radiofrequency versus neurotoxic cingulate lesions on spatial reversal learning in mice. Meunier M, et al. **Hippocampus** 1997;7(4):355–60

Somatosensory event-related potential changes to painful stimuli during hypnotic analgesia: anterior cingulate cortex and anterior temporal cortex intracranial recordings. Kropotov JD, et al. **Int J Psychophysiol** 1997 Jul;27(1):1–8

Functional MRI of pain- and attention-related activations in the human cingulate cortex. Davis KD, et al. **J Neurophysiol** 1997 Jun;77(6):3370–80

Blunted left cingulate activation in mood disorder subjects during a response interference task (the Stroop). George MS, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter; 9(1):55–63

The interaction between mood and cognitive function studied with PET. Baker SC, et al. **Psychol Med** 1997 May; 27(3):565–78

Prefrontal dysfunction in depressed patients performing a complex planning task: a study using positron emission tomography. Elliott R, et al. **Psychol Med** 1997 Jul; 27(4):931–42

Differential distribution of tyrosine hydroxylase fibers on small and large neurons in layer II of anterior cingulate cortex of schizophrenic brain. Benes FM, et al. **Synapse** 1997 Jan;25(1):80–92

RADIONUCLIDE IMAGING

Demonstration of decreased posterior cingulate perfusion in mild Alzheimer's disease by means of H215O positron emission tomography. Ishii K, et al. **Eur J Nucl Med** 1997 Jun;24(6):670–3

Cingulate function in depression: a potential predictor of treatment response. Mayberg HS, et al. **Neuroreport** 1997 Mar 3;8(4):1057–61

SURGERY

Transcingulate approach to lateral ventricle tumors. Technical case report. Tominaga T, et al. **Neurosurg Rev** 1996;19(2):105–8

Magnetic resonance image-guided stereotactic cingulotomy for intractable psychiatric disease [letter] Balasubramaniam V. **Neurosurgery** 1997 May;40(5):107–8

ULTRASTRUCTURE

Ultrastructure and distribution of corticothalamic fiber terminals from the posterior cingulate cortex and the presubiculum to the anteroventral thalamic nucleus of the rat. Oda S. **Brain Res Bull** 1997;42(6):485–91

GYRUS DENTATUS see **DENTATE GYRUS**

H-2 ANTIGENS

Specific recognition and rejection of the H-2-deficient cell line LR.4 by C57BL/6J mice. Verastegui E, et al. **Eur J Immunogenet** 1997 Apr;24(2):93–103

Split tolerance to the MHC class I molecule H-2Dd in animals transgenic for its soluble analog. Hunziker RD, et al. **Hum Immunol** 1997 Feb;52(2):82–94

Induction of antibodies against the Plasmodium falciparum p126 antigen in non-responder H-2b and partial-responder H-2d mice using synthetic peptides. Gilardeau Truffinet M, et al. **Pept Res** 1996 Mar-Apr;9(2):61–70

ANALYSIS

Methylcholanthrene-induced sarcomas in nude mice have short induction times and relatively low levels of surface MHC class I expression. Engel AM, et al. **APMIS** 1996 Sep;104(9):629–39

BIOSYNTHESIS

Immortalized hepatocytes from transgenic mice. Kramer K, et al. **Biochem Soc Trans** 1997 Feb;25(1):42S

The down-regulation of MHC class I antigens in rat oligodendrocytes is mediated by negative regulatory elements in the class I promoter. Mavria G, et al. **Biochem Soc Trans** 1997 May;25(2):165S

Studies on the down-regulation of major histocompatibility complex class I gene expression in adenovirus-transformed cells. Philpott NJ, et al. **Biochem Soc Trans** 1997 May; 25(2):352S

Introduction of the interferon gamma gene into mouse T lymphoma cells with low MHC class I-expression results in selective induction of H-2Dk and concomitant enhanced metastasis. Geldhof AB, et al. **Cancer Immunol Immunother** 1996 Jul;42(6):329–38

Expression of class II, but not class I, major histocompatibility complex molecules is required for granuloma formation in infection with Schistosoma mansoni. Hernandez HJ, et al. **Eur J Immunol** 1997 May; 27(5):1170–6

Effect of recombinant human insulin-like growth factor-1 on the inflammatory response to acute renal injury. Goes N, et al. **J Am Soc Nephrol** 1996 May;7(5):710–20

NK cell receptor calibration: effects of MHC class I induction on killing by Ly49Ahigh and Ly49Alow NK cells. Olsson-Alheim MY, et al. **J Immunol** 1997 Oct 1; 159(7):3189–94

Interferon alpha/beta mediates early virus-induced expression of H-2D and H-2K in the central nervous system. Njenga MK, et al. **Lab Invest** 1997 Jul;77(1):71–84

Surface projection of murine major histocompatibility determinants induced by hydrostatic pressure and cytokines. Eisenthal A, et al. **Pathobiology** 1996;64(3):142–9

Restoration of MHC class I surface expression and endogenous antigen presentation by a molecular chaperone. Wells AD, et al. **Scand J Immunol** 1997 Jun;45(6):605–12

Role of the thymus in donor specific hyporesponsiveness induced by retroviral transduction of bone marrow using an MHC class I gene. Hayashi H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1133

Murine marrow coexpressing H2-Dsp2 and H2-Db on host natural killer cell rejection. Liu J, et al. **Transplantation** 1997 Feb 15;63(3):444–9

CHEMISTRY

Intermediates in the assembly and degradation of class I major histocompatibility complex (MHC) molecules probed with free heavy chain-specific monoclonal antibodies. Machold RP, et al. **J Exp Med** 1996 Dec 1; 184(6):2251-9

A three-domain T cell receptor is biologically active and specifically stains cell surface MHC/peptide complexes. Plaksin D, et al. **J Immunol** 1997 Mar 1;158(5):2218-27

The three-dimensional structure of an H-2Ld-peptide complex explains the unique interaction of Ld with beta-2 microglobulin and peptide. Balendiran GK, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6880-5

Molecular basis for the recognition of two structurally different major histocompatibility complex/peptide complexes by a single T-cell receptor. Brock R, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13108-13

Circular dichroism determination of class I MHC-peptide equilibrium dissociation constants. Morgan CS, et al. **Protein Sci** 1997 Aug;6(8):1771-3

An alphabeta T cell receptor structure at 2.5 A and its orientation in the TCR-MHC complex [see comments] Garcia KC, et al. **Science** 1996 Oct 11;274(5285):209-19. Comment in: Science 1996 Oct 11;274(5285):176-7.

Close-up of a killer [news; comment] Service RF. **Science** 1996 Oct 11;274(5285):176-7. Comment on: Science 1996 Oct 11;274(5285):209-19.

CLASSIFICATION

On naming H2 haplotypes: functional significance of MHC class Ib alleles. Fischer Lindahl K. **Immunogenetics** 1997; 46(1):53-62 (139 ref.)

DRUG EFFECTS

Identification of an intragenic interferon-stimulated response element sequence of the mouse class I major histocompatibility complex H-2Kb gene. Hatina VJ, et al. **Exp Clin Immunogenet** 1996;13(1):55-60

Surface projection of murine major histocompatibility determinants induced by hydrostatic pressure and cytokines. Eisenthal A, et al. **Pathobiology** 1996;64(3):142-9

GENETICS

PCR-RFLP genotyping of murine MHC haplotypes. Peng SL, et al. **Biotechniques** 1996 Sep;21(3):362, 366-8

Donor gamma delta T lymphocytes promote allogeneic engraftment across the major histocompatibility barrier in mice. Drobyski WR, et al. **Blood** 1997 Feb 1;89(3):1100-9

Non-MHC genes determine the development of lupus nephritis in H-2 identical mouse strains. Sutmuller M, et al. **Clin Exp Immunol** 1996 Nov;106(2):265-72

Major histocompatibility complex and T cell receptor interaction of the P91A tum- peptide. McCormick D, et al. **Eur J Immunol** 1996 Dec;26(12):2895-902

'Empty' Ld molecules capture peptides from endocytosed hepatitis B surface antigen particles for major histocompatibility complex class I-restricted presentation. Schirmbeck R, et al. **Eur J Immunol** 1996 Dec; 26(12):2812-22

Epitope selection in major histocompatibility complex class I-mediated pathway is affected by the intracellular localization of an antigen. Yamazaki H, et al. **Eur J Immunol** 1997 Feb;27(2):347-53

Identification of a recombinational breakpoint at the BAT5 locus in three intra-H-2 recombinant inbred mouse strains. Mathew PA, et al. **Exp Clin Immunogenet** 1995;12(4):261-7

Differential H-2 antigen expression in teratocarcinoma-fibroblast hybrids. Sionov RV, et al. **Exp Clin Immunogenet** 1995;12(4):238-44

Expression of two H-2K genes, syngeneic and allogeneic, as a strategy for potentiating immune recognition of tumor cells. Mandelboim O, et al. **Gene Ther** 1995 Dec; 2(10):757-65

Combination gene transfer to potentiate tumor regression. Ohno T, et al. **Gene Ther** 1997 Apr;4(4):361-6

Detection of a large RIII-derived chromosomal segment on chromosome 10 in the H-2 congenic strain B10.RIII(71NS)/Sn. Dong P, et al. **Genomics** 1996 Jan 15; 31(2):266-9

Quantitation of the cell surface level of Ld resulting in positive versus negative selection of the 2C transgenic T cell receptor in vivo. Cook JR, et al. **Immunity** 1997 Aug; 7(2):233-41

Selection of a broad repertoire of CD4+ T cells in H-2Ma0/0 mice. Tourne S, et al. **Immunity** 1997 Aug; 7(2):187-95

On naming H2 haplotypes: functional significance of MHC class Ib alleles. Fischer Lindahl K. **Immunogenetics** 1997; 46(1):53-62 (139 ref.)

Fine mapping of 12 microsatellites and two new recombinants in the distal H2 complex on mouse chromosome 17. Xiao H, et al. **Immunogenetics** 1997;45(4):274-7

Host MHC class I gene control of NK-cell specificity in the mouse. Höglund P, et al. **Immunol Rev** 1997 Feb; 155:11-28 (86 ref.)

Reactivity and specificity of CD8+ T cells in mice with defects in the MHC class I antigen-presenting pathway. Ljunggren HG, et al. **Immunol Rev** 1996 Jun;151:123-48 (89 ref.)

The NK2.1 receptor is encoded by Ly-49C and its expression is regulated by MHC class I alleles. Gosselin P, et al. **Int Immunol** 1997 Apr;9(4):533-40

H-2 genes and resistance to infection with Heligmosomoides polygyrus in selectively bred mice. Su Z, et al. **Int J Parasitol** 1997 May;27(5):595-600

Activation transcription factor 1 involvement in the regulation of murine H-2Dd expression. Ishiguro N, et al. **J Biol Chem** 1997 Jun 20;272(25):15993-6001

Immune CD8+ T lymphocytes lyse Listeria monocytogenes-infected hepatocytes by a classical MHC class I-restricted mechanism. Jiang X, et al. **J Immunol** 1997 Jan 1;158(1):287-93

Altered expression of Ly49 inhibitory receptors on natural killer cells from MHC class I-deficient mice. Salcedo M, et al. **J Immunol** 1997 Apr 1;158(7):3174-80

V alpha 3.2 selection in MHC class I mutant mice: evidence for an alternate orientation of TCR-MHC class I interaction. Sim BC, et al. **J Immunol** 1997 Oct 1; 159(7):3322-9

Cloning of minimally divergent allelic forms of the natural killer (NK) receptor Ly-49C, differentially controlled by host genes in the MHC and NK gene complexes. Sundbäck J, et al. **J Immunol** 1996 Nov 1;157(9):3936-42

Variation in H-2K(k) peptide motif revealed by sequencing naturally processed peptides from T-cell hybridoma class I molecules. Burrows GG, et al. **J Neurosci Res** 1996 Sep 15;45(6):803-11

A physical map of the mouse H2 Bat5/Db interval. Dagenais SL, et al. **Mamm Genome** 1997 Jan;8(1):39-41

Localization of the casein kinase II beta-subunit gene within the mouse H-2 complex class III region and comparison of expression with Bat genes. Lanning D, et al. **Mamm Genome** 1997 Jul;8(7):519-21

Phenotypic changes and loss of melanoma-specific endogenous C-type retroviruses in BL6 melanoma cells transfected with the H-2Kb gene. Muller J, et al. **Melanoma Res** 1996 Apr;6(2):101-11

Role of non-anchor residues of Db-restricted peptides in class I binding and TCR triggering. Sigal LJ, et al. **Mol Immunol** 1996 Dec;33(17-18):1323-33

Simultaneous immunoselection in vitro for H-Y or H-2D antigen-loss variants of a mouse-derived B cell line. King TR. **Mutat Res** 1996 Sep 13;370(2):91-7

Volatile signals of the major histocompatibility complex in male mouse urine. Singer AG, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2210-4

Functionality of major histocompatibility complex class II molecules in mice doubly deficient for invariant chain and H-2M complexes. Tourne S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9255-60

A complex major histocompatibility complex D locus variant generated by an unusual recombination mechanism in mice. Yun TJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1384-9

[Isolation and partial characteristics of T-cell clones specific for mycobacterial antigens in mice with genetically determined differences in sensitivity to tuberculosis] Eremeev VV, et al. **Biull Eksp Biol Med** 1997 Apr; 123(4):431-4 **(Rus)**

IMMUNOLOGY

Unexpected reaction of anti-H-2d serum with thymic lymphoma cells derived from transgenic B6-H-2b TCR anti-HY/Db mice. Matuszyk J, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2-3):103-7

Phagocytic processing of two M protein T-cell epitopes from viable group A streptococci. Delvig AA, et al. **Biochem Soc Trans** 1997 May;25(2):205S

Tumour-reactive cytotoxic T-lymphocytes specific for normal cellular proteins. Stauss HJ, et al. **Biochem Soc Trans** 1997 May;25(2):540-3

Specific tolerance induction and transplantation: a single-day protocol. de Vries-van der Zwan A, et al. **Blood** 1997 Apr 1;89(7):2596-601

Major histocompatibility complex restriction between hematopoietic stem cells and stromal cells in vivo. Hashimoto F, et al. **Blood** 1997 Jan 1;89(1):49-54

Induction of humoral immune tolerance to major histocompatibility complex antigens by transfusions of UVB-irradiated leukocytes. Kao KJ. **Blood** 1996 Dec 1; 88(11):4375-82

A synthetic CD4-CDR3 peptide analog enhances bone marrow engraftment across major histocompatibility barriers. Koch U, et al. **Blood** 1997 Apr 15;89(8):2880-90

Can bone marrow-derived thymic stromal cells mediate the positive selection of class I-restricted T cells? Fort MM, et al. **Cell Immunol** 1996 Jul 10;171(1):74-9

Characterization of in vivo primary and secondary CD8+ T cell responses induced by recombinant influenza and vaccinia viruses. Murata K, et al. **Cell Immunol** 1996 Oct 10;173(1):96-107

A shift in the requirement for CD4+ T cells in the generation of AKR/Gross MuLV-specific CTL in AKR.H-2b:Fv-1b mice occurs prior to the onset of age-dependent CTL nonresponsiveness. Smith PM, et al. **Cell Immunol** 1997 Feb 1;175(2):189-98

Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8+ cytotoxic T lymphocytes. Bachmann MF, et al. **Eur J Immunol** 1996 Nov;26(11):2595-600

Thymic stromal organization is regulated by the specificity of T cell receptor/major histocompatibility complex interactions. Brabb T, et al. **Eur J Immunol** 1997 Jan; 27(1):136-46

Naive alloreactive CD8 T cells are activated by purified major histocompatibility complex class I and antigenic peptide. Goldstein J, et al. **Eur J Immunol** 1997 Apr; 27(4):871-8

Lack of F1 anti-parental resistance in H-2b/d F1 hybrids devoid of beta2-microglobulin. Höglund P, et al. **Eur J Immunol** 1997 Jan;27(1):342-5

Differential generation of class I H-2D- versus H-2K-restricted cytotoxicity against a demyelinating virus following central nervous system infection. Lin X, et al. **Eur J Immunol** 1997 Apr;27(4):963-70

Major histocompatibility complex and T cell receptor interaction of the P91A tum- peptide. McCormick D, et al. **Eur J Immunol** 1996 Dec;26(12):2895-902

The mechanism of specific prolongation of class I-mismatched skin grafts induced by retroviral gene therapy. Mayfield RS, et al. **Eur J Immunol** 1997 May; 27(5):1177-81

The Rose Payne Award lecture of 1992 revisited. Yunis EJ. **Hum Immunol** 1996 Jun-Jul;48(1-2):139-47

Localization, quantitation, and in situ detection of specific peptide-MHC class I complexes using a monoclonal antibody. Porgador A, et al. **Immunity** 1997 Jun;6(6):715-26

CTL respond to a mitochondrial antigen presented by H2-Db. Dabhi VM, et al. **Immunogenetics** 1996;45(1):65-8

H2-M3 restricted presentation of Listeria monocytogenes antigens. Lenz LL, et al. **Immunol Rev** 1996 Jun;151:107-21 (30 ref.)

Class I-restricted cytotoxic T cell recognition of split peptide ligands. Gillanders WE, et al. **Int Immunol** 1997 Jan; 9(1):81-9

Requirement of IL-7 for IL-4-producing potential of MHC class I-selected CD4-CD8-TCR alpha beta+ thymocytes. Leite-de-Moraes MC, et al. **Int Immunol** 1997 Jan;9(1):73-9

Ly-49 G2+ NK cells are responsible for mediating the rejection of H-2b bone marrow allografts in mice. Raziuddin A, et al. **Int Immunol** 1996 Dec;8(12):1833-9

Developmental control of antigen-induced thymic transcription factors. Simon AK, et al. **Int Immunol** 1996 Sep;8(9):1421-8

Expression of the H2-E molecule mediates protection to collagen-induced arthritis in HLA-DQ8 transgenic mice: role of cytokines. Taneja V, et al. **Int Immunol** 1997 Aug; 9(8):1213-9

Unprimed T cells are inefficiently stimulated by glycosylphosphatidylinositol-linked H-2Kb because of its lipid anchor rather than defects in CD8 binding. Zamoyska R, et al. **Int Immunol** 1996 Apr;8(4):551-7

Effects of epitope modification on T cell receptor-ligand binding and antigen recognition by seven H-2Kd-restricted cytotoxic T lymphocyte clones specific for a photoreactive peptide derivative. Kessler BM, et al. **J Exp Med** 1997 Feb 17;185(4):629-40

Self major histocompatibility complex class I antigens expressed solely in lymphoid cells do not induce tolerance in the CD4+ T cell compartment. Schulz R, et al. **J Exp Med** 1996 Oct 1;184(4):1573-8

Peptide-independent recognition by alloreactive cytotoxic T lymphocytes (CTL). Smith PA, et al. **J Exp Med** 1997 Mar 17;185(6):1023-33

Tolerance to p53 by A2.1-restricted cytotoxic T lymphocytes. Theobald M, et al. **J Exp Med** 1997 Mar 3;185(5):833-41

Thymus-derived glucocorticoids regulate antigen-specific positive selection. Vacchio MS, et al. **J Exp Med** 1997 Jun 2;185(11):2033-8

Effect of natural sequence variation at the H-2Ld-restricted CD8+ T cell epitope of the murine cytomegalovirus ie1-encoded pp89 on T cell recognition. Lyons PA, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2615-23

Class I- and class II-reactive TCRs coexpressed on CD4+ T cells both trigger CD4/CD8-shared and CD4-unique functions. Asnagli H, et al. **J Immunol** 1997 May 15; 158(10):4533-42

Impaired signaling in alloantigen-specific CD8+ T cells tolerized in vivo: employing a model of Ld-specific TCR transgenic mice transplanted with allogenic hearts under the cover of a short-term rapamycin treatment. Chen H, et al. **J Immunol** 1996 Nov 15;157(10):4297-308

Alloreactive monoclonal antibodies select Kd molecules with different peptide profiles. Noun G, et al. **J Immunol** 1996 Sep 15;157(6):2455-61

Functional mapping of the orientation for TCR recognition of an H2-Kb-restricted ovalbumin peptide suggests that the beta-chain subunit can dominate the determination of peptide side chain specificity. Turner SJ, et al. **J Immunol** 1997 Sep 1;159(5):2312-7

Presentation of an influenza nucleoprotein epitope incorporated into the H-2Db signal sequence requires the transporter-associated with antigen presentation. Uger RA, et al. **J Immunol** 1997 Jan 15;158(2):685-92

Brain-infiltrating cytolytic T lymphocytes specific for Theiler's virus recognize H2Db molecules complexed with a viral VP2 peptide lacking a consensus anchor residue. Borson ND, et al. **J Virol** 1997 Jul;71(7):5244-50

Generation of cytotoxic T lymphocytes against immunorecessive epitopes after multiple immunizations with adenovirus vectors is dependent on haplotype. Sparer TE, et al. **J Virol** 1997 Mar;71(3):2277-84

Uncovering subdominant cytotoxic T-lymphocyte responses

in lymphocytic choriomeningitis virus-infected BALB/c mice. van der Most RG, et al. **J Virol** 1997 Jul;71(7):5110-4

Identification of an HLA-DQ6-derived peptide recognized by mouse MHC class I H-2Db-restricted CD8+ T cells in HLA-DQ6 transgenic mice. Takeshita T, et al. **Jpn J Hum Genet** 1997 Mar;42(1):225-32

Genetic control of immune responses to HIV-1 env DNA vaccine. Ishii N, et al. **Microbiol Immunol** 1997;41(5):421-5

Predominance of H-2d- and H-2k-restricted T-cell epitopes in the highly repetitive Plasmodium falciparum antigen Pf332. Ahlborg N, et al. **Mol Immunol** 1997 Apr; 34(5):379-89

H-2Ld-alloreactive T cell hybridomas utilize diverse V alpha and V beta T cell receptor chains. Louie KA, et al. **Mol Immunol** 1996 Jun;33(9):747-58

Induction of anti-polycation antibodies in H-2s mice by immunization with nuclear antigens. Monestier M, et al. **Mol Immunol** 1997 Jan;34(1):39-51

Relationship of the virulence of Trichomonas vaginalis and the major histocompatibility complex in murine trichomonad infection. Caterina P, et al. **Parasitol Res** 1996; 82(7):628-33

Cryptosporidium infection in major histocompatibility complex congeneic strains of mice: variation in susceptibility and the role of T-cell cytokine responses. Davami MH, et al. **Parasitol Res** 1997;83(3):257-63

Molecular basis for the recognition of two structurally different major histocompatibility complex/peptide complexes by a single T-cell receptor. Brock R, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13108-13

The mouse mammary tumor virus env gene is the source of a CD8+ T-cell-stimulating peptide presented by a major histocompatibility complex class I molecule in a murine thymoma. Malarkannan S, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13991-6

The natural killer cell receptor Ly-49A recognizes a peptide-induced conformational determinant on its major histocompatibility complex class I ligand. Orihuela M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11792-7

Peptide-specific cytotoxic T lymphocytes restricted by nonself major histocompatibility complex class I molecules: reagents for tumor immunotherapy. Sadovnikova E, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13114-8

MHC class I phenotype and function of human beta 2-microglobulin transgenic murine lymphocytes. Bjerager L, et al. **Scand J Immunol** 1996 Dec;44(6):615-22

Immunodominance deters the response to other tumor antigens thereby favoring escape: prevention by vaccination with tumor variants selected with cloned cytolytic T cells in vitro. Van Waes C, et al. **Tissue Antigens** 1996 May;47(5):399-407

Evidence that the continued presence of the organ graft and not peripheral donor microchimerism is essential for maintenance of tolerance to alloantigen in vivo in anti-CD4 treated recipients. Hamano K, et al. **Transplantation** 1996 Sep 27;62(6):856-60

The signal sequence of lymphocytic choriomeningitis virus contains an immunodominant cytotoxic T cell epitope that is restricted by both H-2D(b) and H-2K(b) molecules. Hudrisier D, et al. **Virology** 1997 Jul 21;234(1):62-73

METABOLISM

Peptide interaction with a class I major histocompatibility complex-encoded molecule: allosteric control of the ternary complex stability. Gakamsky DM, et al. **Biochemistry** 1996 Nov 26;35(47):14841-8

Major histocompatibility complex class I-dependent cell binding to isolated Ly-49A: evidence for high-avidity interaction. Chang CS, et al. **Eur J Immunol** 1996 Dec; 26(12):3219-23

Location-specific regulation of transgenic Ly49A receptors by major histocompatibility complex class I molecules. Fahlén L, et al. **Eur J Immunol** 1997 Aug;27(8):2057-65

Epitope cleavage by Leishmania endopeptidase(s) limits the efficiency of the exogenous pathway of major histocompatibility complex class I-associated antigen presentation. Garcia MR, et al. **Eur J Immunol** 1997 Apr; 27(4):1005-13

Stress protein (hsp73)-mediated, TAP-independent processing of endogenous, truncated SV40 large T antigen for Db-restricted peptide presentation. Schirmbeck R, et al. **Eur J Immunol** 1997 Aug;27(8):2016-23

'Empty' Ld molecules capture peptides from endocytosed hepatitis B surface antigen particles for major histocompatibility complex class I-restricted presentation. Schirmbeck R, et al. **Eur J Immunol** 1996 Dec; 26(12):2812-22

Thymic selection by a single MHC/peptide ligand produces a semidiverse repertoire of CD4+ T cells. Surh CD, et al. **Immunity** 1997 Aug;7(2):209-19

A mouse cytomegalovirus glycoprotein retains MHC class I complexes in the ERGIC/cis-Golgi compartments. Ziegler H, et al. **Immunity** 1997 Jan;6(1):57-66

Differential roles of T cell receptor alpha and beta chains in ligand binding among H-2Kd-restricted cytolytic T lymphocyte clones specific for a photoreactive Plasmodium berghei circumsporozoite peptide derivative. Anjuère F, et al. **J Biol Chem** 1997 Mar 28;272(13):8505-14

Synthesis and turnover of beta2-microglobulin in Ad12-transformed cells defective in assembly and transport of class I major histocompatibility compiex molecules. Mey-Tal SV, et al. **J Biol Chem** 1997 Jan 3;272(1):353-61

Binding of H-2Kb-specific peptides to TAP and major histocompatibility complex class I in microsomes from wild-type, TAP1, and beta2-microglobulin mutant mice. Wang P, et al. **J Biol Chem** 1996 Oct 4;271(40):24830-5

Intermediates in the assembly and degradation of class I major histocompatibility complex (MHC) molecules probed with free heavy chain-specific monoclonal antibodies. Machold RP, et al. **J Exp Med** 1996 Dec 1; 184(6):2251-9

Enhanced intracellular dissociation of major histocompatibility complex class I-associated peptides: a mechanism for optimizing the spectrum of cell surface-presented cytotoxic T lymphocyte epitopes. Sijts AJ, et al. **J Exp Med** 1997 Apr 21;185(8):1403-11

The mechanisms of peptide exchange and beta 2-microglobulin exchange on cell surface Ld and Kb molecules are noncooperative. Cook JR, et al. **J Immunol** 1996 Sep 15;157(6):2256-61

MHC affinity, peptide liberation, T cell repertoire, and immunodominance all contribute to the paucity of MHC class I-restricted peptides recognized by antiviral CTL. Deng Y, et al. **J Immunol** 1997 Feb 15;158(4):1507-15

Delivery by Trypanosoma cruzi of proteins into the MHC class I antigen processing and presentation pathway. Garg N, et al. **J Immunol** 1997 Apr 1;158(7):3293-302

Peptide binding to the class Ib molecule, Qa-1b. Kurepa Z, et al. **J Immunol** 1997 Apr 1;158(7):3244-51

A residue in the center of peptide QL9 affects binding to both Ld and the T cell receptor. Schlueter CJ, et al. **J Immunol** 1996 Nov 15;157(10):4478-85

Regulation of class I-restricted epitope processing by local or distal flanking sequence. Yellen-Shaw AJ, et al. **J Immunol** 1997 Feb 15;158(4):1727-33

The ability of peptides to induce cytotoxic T cells in vitro does not strongly correlate with their affinity for the H-2Ld molecule: implications for vaccine design and immunotherapy. Ochoa-Garay J, et al. **Mol Immunol** 1997 Feb;34(3):273-81

Intact proteins can bind to class II histocompatibility molecules with high affinity. Runnels HA, et al. **Mol Immunol** 1997 Apr;34(6):471-80

CD8 enhances formation of stable T-cell receptor/MHC class I molecule complexes [see comments] [published erratum appears in Nature 1997 Jun 5;387(6633):634] Garcia KC, et al. **Nature** 1996 Dec 12;384(6609):577-81. Comment in: Nature 1996 Dec 12;384(6609):518-9.

Deglucosylation of N-linked glycans is an important step in the dissociation of calreticulin-class I-TAP complexes. van Leeuwen JE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13997-4001

MHC class I presentation of live and heat-inactivated Sendai virus antigen in T2Kb cells depends on an intracellular compartment with endosomal characteristics. Liu T, et al. **Scand J Immunol** 1997 May;45(5):527-33

Restoration of MHC class I surface expression and endogenous antigen presentation by a molecular chaperone. Wells AD, et al. **Scand J Immunol** 1997 Jun;45(6):605-12

PHYSIOLOGY

Inhibition of melanoma-associated antigen expression and ecotropic retrovirus production in B16BL6 melanoma cells transfected with major histocompatibility complex class I genes. Li M, et al. **Cancer Res** 1996 Oct 1;56(19):4464-74

Major histocompatibility complex recognition by immune receptors: differences among T cell receptor versus antibody interactions with the VSV8/H-2Kb complex. Witte T, et al. **Eur J Immunol** 1997 Jan;27(1):227-33

Ly49A transgenic mice provide evidence for a major histocompatibility complex-dependent education process in natural killer cell development. Held W, et al. **J Exp Med** 1997 Jun 16;185(12):2079-88

HLA-A2.1-restricted education and cytolytic activity of CD8(+) T lymphocytes from beta2 microglobulin (beta2m) HLA-A2.1 monochain transgenic H-2Db beta2m double knockout mice. Pascolo S, et al. **J Exp Med** 1997 Jun 16; 185(12):2043-51

Degenerate MHC restriction reveals the contribution of class I MHC molecules in determining the fine specificity of CTL recognition of an immunodominant determinant of HIV-1 gp160 V3 loop. Shirai M, et al. **J Immunol** 1997 Apr 1;158(7):3181-8

H-7 see **1-(5-ISOQUINOLINESULFONYL)-2-METHYLPIPERAZINE**

H 93-26 see **METOPROLOL**

H(+)ATPASE COMPLEX see **H(+)-TRANSPORTING ATP SYNTHASE**

H(+)-K(+)-EXCHANGING ATPASE

[H+, K+ -ATPase, H+ -ATPase] Takeguchi N, et al. **Nippon Rinsho** 1996 Mar;54(3):595-600 (17 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

H(+)-K(+)-ATPase in rabbit cortical collecting duct B-type intercalated cell. Weiner ID, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F518-30

ANTAGONISTS & INHIBITORS

One-day intensified lansoprazole-quadruple therapy for cure of Helicobacter pylori infection. de Boer WA, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):109-12

Morning versus evening dosing of lansoprazole 30 mg daily on twenty-four-hour intragastric acidity in healthy subjects. Fraser AG, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):523-7

Lansoprazole versus ranitidine in the maintenance treatment of reflux oesophagitis. Gough AL, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):529-39

Long-term treatment with lansoprazole of patients with duodenal ulcer and basal acid output of more than 15 mmol/h. Hirschowitz BI, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):497-506

Long-term treatment with lansoprazole for patients with Zollinger-Ellison syndrome. Hirschowitz BI, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):507-22

Efficacy and tolerability of a one-week triple therapy consisting of pantoprazole, clarithromycin and amoxycillin for cure of Helicobacter pylori infection in patients with duodenal ulcer. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):95-100

Omeprazole prevents indomethacin-induced gastric ulcers in rabbits. Lee M, et al. **Aliment Pharmacol Ther** 1996 Aug; 10(4):571-6

Altered bowel function and duodenal bacterial overgrowth in patients treated with omeprazole. Lewis SJ, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):557-61

The role of antisecretory drugs in the treatment of Helicobacter pylori infection. Peterson WL. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:21-5 (36 ref.)

The treatment of Helicobacter pylori infection. Pounder RE, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:35-41 (35 ref.)

Reduction in renin release and renal vascular resistance by H(+)-K(+)-ATPase inhibition. Lin H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F457-62

Mechanism of inhibition of H+, K(+)-ATPase by sodium 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfinyl]-1H-benzimidazole (E3810). Nochi S, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):552-8

Nicotinamide derivatives as a new class of gastric (H+/K+)-ATPase inhibitors. III. Synthesis and gastric antisecretory activity of 2-[(2- and 4-aminobenzyl, and alpha-methylbenzyl)sulfinyl]-N-(4-pyridinyl)-3-pyridinecarboxamides. Terauchi H, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1177-82

Nicotinamide derivatives as a new class of gastric (H+/K+)-ATPase inhibitors II. Synthesis and structure-activity relationships of 2[(2,4-dimethoxybenzyl)sulfinyl]-N-(4-pyridinyl) pyridine-3-carboxamides [published erratum appears in Chem Pharm Bull (Tokyo) 1997 Jul;45(7):1234] Terauchi H, et al. **Chem Pharm Bull (Tokyo)** 1997 Jun;45(6):1027-38

Pharmacokinetics, metabolism and interactions of acid pump inhibitors. Focus on omeprazole, lansoprazole and pantoprazole. Andersson T. **Clin Pharmacokinet** 1996 Jul; 31(1):9-28 (170 ref.)

Metabolic disposition of lansoprazole in relation to the S-mephenytoin 4'-hydroxylation phenotype status. Sohn DR, et al. **Clin Pharmacol Ther** 1997 May;61(5):574-82

Effect of high ionic strength and inhibitors of H,K-ATPase on the ouabain-sensitive K-p-nitrophenylphosphatase activity in the sea anemone Stichodactyla helianthus. Specht SC, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):217-24

Role of endogenous hypergastrinemia in regenerating endocrine pancreas after partial pancreatectomy. Xu G, et al. **Dig Dis Sci** 1996 Dec;41(12):2433-9

Proton-pump inhibitors are the treatment of choice in acid-related disease. Brunner G. **Eur J Gastroenterol Hepatol** 1996 Oct;8 Suppl 1:S9-13 (42 ref.)

Intragastric pH and serum gastrin during administration of different doses of pantoprazole in healthy subjects. Koop H, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):915-8

Metabolic interactions of the proton-pump inhibitors lansoprazole, omeprazole and pantoprazole with other drugs. Meyer UA. **Eur J Gastroenterol Hepatol** 1996 Oct; 8 Suppl 1:S21-5

Pantoprazole, a new proton-pump inhibitor, has a precise and predictable profile of activity. Parsons ME. **Eur J Gastroenterol Hepatol** 1996 Oct;8 Suppl 1:S15-20 (45 ref.)

Antisecretory and antiulcer effect of T-330, a novel reversible proton pump inhibitor, in rats. Kinoshita M, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):325-32

The conformation of an inhibitor bound to the gastric proton pump. Middleton DA, et al. **FEBS Lett** 1997 Jun 30; 410(2-3):269-74

Lack of pharmacokinetic interaction between pantoprazole and diclofenac. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S76-80

Pantoprazole does not interact with nifedipine in man under steady-state conditions. Bliesath H, et al. **Int J Clin Pharmacol Ther** 1996 May;34(1 Suppl):S81-5

Dose linearity of the pharmacokinetics of the new H+/K(+)-ATPase inhibitor pantoprazole after single intravenous administration. Bliesath H, et al.

Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S18-24
Pantoprazole lacks interaction with antipyrine in man, either by inhibition or induction. De Mey C, et al.
Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S58-66
Lack of interaction between pantoprazole and digoxin at therapeutic doses in man. Hartmann M, et al.
Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S67-71
Pharmacokinetics of pantoprazole in man. Huber R, et al.
Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S7-16 (61 ref.)
Pantoprazole has no influence on steady state pharmacokinetics and pharmacodynamics of metoprolol in healthy volunteers. Koch HJ, et al.
Int J Clin Pharmacol Ther 1996 Oct;34(10):420-3
No influence of pantoprazole on the pharmacokinetics of phenytoin. Middle MV, et al.
Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S72-5
Lack of influence of pantoprazole on the disposition kinetics of theophylline in man. Schulz HU, et al.
Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S51-7
Lack of pantoprazole drug interactions in man: an updated review. Steinijans VW, et al.
Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S31-50 (121 ref.)
Pharmacokinetics and tolerance of pantoprazole, a proton pump inhibitor after single and multiple oral doses in healthy Japanese volunteers. Tanaka M, et al.
Int J Clin Pharmacol Ther 1996 Oct;34(10):415-9
Pharmacokinetics and drug interactions--relevant factors for the choice of a drug. Zech K, et al.
Int J Clin Pharmacol Ther 1996 May;34(1 Suppl):S3-6 (32 ref.)
High-performance thin-layer chromatographic method for the detection and determination of lansoprazole in human plasma and its use in pharmacokinetic studies. Pandya KK, et al. **J Chromatogr B Biomed Appl** 1997 May 23; 693(1):199-204
Nicotinamide derivatives as a new class of gastric H+/K(+)-ATPase inhibitors. 1. Synthesis and structure-activity relationships of N-substituted 2-(benzhydryl- and benzylsulfinyl)nicotinamides. Terauchi H, et al. **J Med Chem** 1997 Jan 31;40(3):313-21
Role of capsaicin-sensitive sensory neurons and nitric oxide in the protective effect of lansoprazole, a proton pump inhibitor, on the gastric mucosa in rats. Murakami I, et al. **Jpn J Pharmacol** 1996 Oct;72(2):137-47
Proton-pump inhibitors: three of a kind? [see comments] Bateman DN. **Lancet** 1997 Jun 7;349(9066):1637-8. Comment in: Lancet 1997 Aug 9;350(9075):446; discussion 447. Comment in: Lancet 1997 Aug 9;350(9075):447.
Lansoprazole: a comprehensive review. Zimmermann AE, et al. **Pharmacotherapy** 1997 Mar-Apr;17(2):308-26 (184 ref.)
Effect of acetazolamide and melittin on polarization of the frog gastric mucosa proton pump. Carrasquer G, et al. **Proc Soc Exp Biol Med** 1996 Dec;213(3):258-61

BIOSYNTHESIS

Expression of the gastric H/K-ATPase alpha-subunit in the thymus may explain the dominant role of the beta-subunit in the pathogenesis of autoimmune gastritis. Alderuccio F, et al. **Autoimmunity** 1997;25(3):167-75
Glycosylation is essential for biosynthesis of functional gastric H+,K+-ATPase in insect cells. Klaassen CH, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):419-24

CHEMISTRY

Na+-K+-ATPase alpha-subunit containing Q905-V930 of gastric H+-K+-ATPase alpha preferentially assembles with H+-K+-ATPase beta. Wang SG, et al.
Am J Physiol 1997 Mar;272(3 Pt 1):C923-30
The N-linked oligosaccharides of the beta-subunit of rabbit gastric H,K-ATPase: site localization and identification of novel structures. Tyagarajan K, et al. **Biochemistry** 1997 Aug 19;36(33):10200-12
Structural domain organization of gastric H+,K+-ATPase and its rearrangement during the catalytic cycle. Gasset M, et al. **J Biol Chem** 1997 Jan 17;272(3):1608-14
Transmembrane carboxyl residues are essential for cation-dependent function in the gastric H,K-ATPase. Rabon EC, et al. **J Biol Chem** 1996 Dec 13; 271(50):32137-46
Role of negatively charged residues in the fifth and sixth transmembrane domains of the catalytic subunit of gastric H+,K+-ATPase. Swarts HG, et al. **J Biol Chem** 1996 Nov 22;271(47):29764-72
Three-dimensional structure of the porcine gastric H,K-ATPase from negatively stained crystals. Xian Y, et al. **J Struct Biol** 1997 Apr;118(3):169-77

GENETICS

Effects of chronic hypokalemia on renal expression of the "gastric" H(+)-K(+)-ATPase alpha-subunit gene. Ahn KY, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):F557-66
Chronic hypokalemia enhances expression of the H(+)-K(+)-ATPase alpha 2-subunit gene in renal medulla. Ahn KY, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F314-21
Amino acids Val115-Ile126 of rat gastric H(+)-K(+)-ATPase confer high affinity for Sch-28080 to Na(+)-K(+)-ATPase. Lyu RM, et al.
Am J Physiol 1997 May;272(5 Pt 1):C1717-25
Canine H(+)-K(+)-ATPase alpha-subunit gene promoter: studies with canine parietal cells in primary culture. Muraoka A, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):G1104-13
Genomic organization of the human ATP1AL1 gene encoding a ouabain-sensitive H,K-ATPase. Sverdlov VE, et al. **Genomics** 1996 Mar 15;32(3):317-27
Transcriptional activation of H+/K+-ATPase genes by gastric GATA binding proteins. Nishi T, et al.
J Biochem (Tokyo) 1997 May;121(5):922-9
Mutational analysis of putative SCH 28080 binding sites of the gastric H+,K+-ATPase. Asano S, et al.
J Biol Chem 1997 Jul 11;272(28):17668-74
Functional expression of the colonic H+,K+-ATPase alpha-subunit. Pharmacologic properties and assembly with X+,K+-ATPase beta-subunits. Codina J, et al.
J Biol Chem 1996 Nov 22;271(47):29759-63
[Gastric proton pump: genes and their expression] Futai M. **Nippon Rinsho** 1996 Apr;54(4):1138-43 (13 ref.) (Eng. Abstr.) **(Jpn)**
[Genes for gastric proton pump and their transcriptional regulation] Maeda M. **Yakugaku Zasshi** 1996 Feb; 116(2):91-105 (45 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Murine autoimmune gastritis and the gastric H,K-ATPase: insights from a new model and autoantibody detection system. Claeys D, et al. **Verh Dtsch Ges Pathol** 1996; 80:191-5

ISOLATION & PURIFICATION

Evidence for a selective and electroneutral K+/H(+)-exchange in Saccharomyces cerevisiae using plasma membrane vesicles. Camarasa C, et al. **Yeast** 1996 Oct;12(13):1301-13

METABOLISM

Effect of chronic hypokalemia on H(+)-K(+)-ATPase expression in rat colon. Codina J, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):F22-30
H-K-ATPase activity in PNA-binding intercalated cells of newborn rabbit cortical collecting duct. Constantinescu A, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):F167-77
Effect of hypokalemia on the abundance of HK alpha 1 and HK alpha 2 protein in the rat kidney. Kraut JA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F744-50
Functional activity of H-K-ATPase in individual cells of OMCD: localization and effect of K+ depletion. Kuwahara M, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):F116-22
Amino acids Val115-Ile126 of rat gastric H(+)-K(+)-ATPase confer high affinity for Sch-28080 to Na(+)-K(+)-ATPase. Lyu RM, et al.
Am J Physiol 1997 May;272(5 Pt 1):C1717-25
Molecular evidence for a vascular smooth muscle H+-K+-ATPase. Marrelli SP, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H869-74
Regulation of colonic H-K-ATPase in large intestine and kidney by dietary Na depletion and dietary K depletion. Sangan P, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):C685-96
Stimulation of apical H-K-ATPase in intercalated cells of cortical collecting duct with chronic metabolic acidosis. Silver RB, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):F539-47
ME-3407, a new antiulcer agent, inhibits acid secretion by interfering with redistribution of H(+)-K(+)-ATPase. Urushidani T, et al. **Am J Physiol** 1997 May;272(5 Pt 1):G1122-34
An immuno- and enzyme cytochemical study of the H(+)-K+ ATPase in human parietal cells after administration of tetragastrin and omeprazole. Kobayashi A, et al. **Arch Histol Cytol** 1997 Jun;60(2):205-14
Ser-27, Tyr-10 and Tyr-7 in the alpha-chain of pig stomach H+,K(+)-ATPase as Ca(2+)-dependent phosphorylatable sites by intrinsic and extrinsic protein kinases. Togawa K, et al.
Biochem Biophys Res Commun 1996 Oct 23;227(3):810-5
Glycosylation is essential for biosynthesis of functional gastric H+,K+-ATPase in insect cells. Klaassen CH, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):419-24
A tyrosine-based signal targets H/K-ATPase to a regulated compartment and is required for the cessation of gastric acid secretion. Courtois-Coutry N, et al. **Cell** 1997 Aug 8;90(3):501-10
H+, K(+)-ATPASE in the kidney: localization and function in the nephron. Doucet A. **Exp Nephrol** 1997 Jul-Aug; 5(4):271-6 (32 ref.)
Sites of reaction of the gastric H,K-ATPase with extracytoplasmic thiol reagents. Besancon M, et al.
J Biol Chem 1997 Sep 5;272(36):22438-46
Ischemic-reperfusion injury in the kidney: overexpression of colonic H+-K+-ATPase and suppression of NHE-3. Wang Z, et al. **Kidney Int** 1997 Apr;51(4):1106-15
Association of syntaxin 3 and vesicle-associated membrane protein (VAMP) with H+/K(+)-ATPase-containing tubulovesicles in gastric parietal cells. Peng XR, et al.
Mol Biol Cell 1997 Mar;8(3):399-407
Glucocorticoids stimulate the maturation of H,K-ATPase in the infant rat stomach. Wang ZM, et al. **Pediatr Res** 1996 Nov;40(5):658-63
Re-evaluation of the expression of the gastric H,K-ATPase alpha subunit along the rat nephron. Cheval L, et al.
Pflugers Arch 1997 Feb;433(4):539-41
Evidence for a selective and electroneutral K+/H(+)-exchange in Saccharomyces cerevisiae using plasma membrane vesicles. Camarasa C, et al. **Yeast** 1996 Oct;12(13):1301-13

PHYSIOLOGY

Adaptation to low-K+ media increases H(+)-K(+)-ATPase but not H(+)-ATPase-mediated pHi recovery in OMCD1 cells. Guntupalli J, et al.
Am J Physiol 1997 Aug;273(2 Pt 1):C558-71
Role of H(+)-K(+)-ATPase in pHi regulation in inner medullary collecting duct cells in culture. Ono S, et al.
Am J Physiol 1996 May;270(5 Pt 2):F852-61
H(+)-K(+)-ATPase mediates net acid secretion in rat terminal inner medullary collecting duct. Wall SM, et al.
Am J Physiol 1996 Nov;271(5 Pt 2):F1037-44
H,K-ATPase. DuBose TD Jr, et al.
Curr Opin Nephrol Hypertens 1996 Sep;5(5):411-6
Renal H,K-ATPase: structure, function and regulation. Kone BC. **Miner Electrolyte Metab** 1996;22(5-6):349-65 (102 ref.)
[Molecular and functional diversity of NA,K-ATPase and renal H,K-ATPases] Jaisser F. **Nephrologie** 1996; 17(7):401-8 (43 ref.) (Eng. Abstr.) **(Fre)**

ULTRASTRUCTURE

Fourier transform infrared spectroscopy study of the secondary structure of the gastric H+,K+-ATPase and of its membrane-associated proteolytic peptides. Raussens V, et al. **J Biol Chem** 1997 Jan 3;272(1):262-70
Three-dimensional structure of the porcine gastric H,K-ATPase from negatively stained crystals. Xian Y, et al. **J Struct Biol** 1997 Apr;118(3):169-77

H(+)-K(+)-TRANSPORTING ATPASE see **H(+)-K(+)-EXCHANGING ATPASE**

H(+) PUMP see **PROTON PUMP**

H(+)-TRANSPORTING ATP SYNTHASE

ANALYSIS

Follow-up study of subunit c of mitochondrial ATP synthase (SCMAS) in Batten disease and in unrelated lysosomal disorders. Elleder M, et al. **Acta Neuropathol (Berl)** 1997 Apr;93(4):379-90
Palmitoyl-protein thioesterase deficiency in fibroblasts of individuals with infantile neuronal ceroid lipofuscinosis and I-cell disease. Verkruyse LA, et al.
Biochim Biophys Acta 1997 Jul 10;1361(1):1-5
Immunocytochemical localization of the vacuolar H(+)-ATPase pump in the kidney. Bastani B.
Histol Histopathol 1997 Jul;12(3):769-79 (55 ref.)
Different distribution of dihydrolipoamide succinyltransferase, dihydrolipoamide acetyltransferase and ATP synthase beta-subunit in monkey brain. Takase C, et al. **In Vivo** 1996 Sep-Oct;10(5):495-501
Chemical and physical properties of the extracellular matrix are required for the actin ring formation in osteoclasts. Nakamura I, et al. **J Bone Miner Res** 1996 Dec; 11(12):1873-9
Isolation of heavy endosomes from dog proximal tubules in suspension. Marshansky V, et al. **J Membr Biol** 1996 Sep; 153(1):59-73
Immunocytochemistry of renal H-ATPase. Bastani B, et al.
Miner Electrolyte Metab 1996;22(5-6):382-95 (73 ref.)
Immunocytological localization of an epitope-tagged plasma membrane proton pump (H(+)-ATPase) in phloem companion cells. DeWitt ND, et al. **Plant Cell** 1995 Dec; 7(12):2053-67
Localization of plasma membrane H+-ATPase in nodules of Phaseolus vulgaris L. Campos F, et al.
Plant Mol Biol 1996 Dec;32(6):1043-53
Vacuolar H+-ATPase in ocular ciliary epithelium. Wax MB, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6752-7

ANTAGONISTS & INHIBITORS

The ATP synthase of Trypanosoma brucei is developmentally regulated by an inhibitor peptide. Chi TB, et al. **Arch Biochem Biophys** 1996 Sep 1;333(1):291-7
Interaction of organotins with a vacuolar-type H(+)-ATPase. Apps DK, et al.
Biochem Biophys Res Commun 1996 Oct 23;227(3):839-45
Novel difference in IF1 reactivity to Zn2+ in rabbit versus rat cardiomyocytes, mitochondria, and submitochondrial particles. Rouslin W, et al.
Biochem Biophys Res Commun 1996 Oct 3;227(1):8-14
Electrospray ionisation mass spectrometry (ESI/MS) of ceroid lipofuscin protein; a model system for the study of F0 inhibitor interactions with mitochondrial subunit C. Ryan EM, et al. **Biochem Soc Trans** 1996 May;24(2):289S
The ATPase inhibitor protein from bovine heart mitochondria: the minimal inhibitory sequence. van Raaij MJ, et al. **Biochemistry** 1996 Dec 10;35(49):15618-25
Cercospora beticola toxins. Part XVII. The role of the beticolin/Mg2+ complexes in their biological activity.

Study of plasma membrane H(+)-ATPase, vacuolar H(+)-PPase, alkaline and acid phosphatases. Gomès E, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):38–46

Functional regions of the H(+)-ATPase inhibitory protein from ox heart mitochondria. Harris DA. **Biochim Biophys Acta** 1997 May 16;1320(1):8–16

Exploring an antifungal target in the plasma membrane H(+)-ATPase of fungi. Seto-Young D, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):249–56

Modification of membrane-bound F1 by p-fluorosulfonylbenzoyl-5'-adenosine: sites of binding and effect on activity. van der Zwet-de Graaff I, et al. **Biochim Biophys Acta** 1997 Jan 16;1318(1–2):123–32

Kinetic studies of Helicobacter pylori urease inhibition by a novel proton pump inhibitor, rabeprazole. Park JB, et al. **Biol Pharm Bull** 1996 Feb;19(2):182–7

Concanamycin B, a vacuolar H(+)-ATPase specific inhibitor suppresses bone resorption in vitro. Woo JT, et al. **Biol Pharm Bull** 1996 Feb;19(2):297–9

Identification of functional domains and critical residues in the adenosinetriphosphatase inhibitor protein of mitochondrial F0F1 ATP synthase. Papa S, et al. **Eur J Biochem** 1996 Sep 1;240(2):461–7

Microtubules are involved in bafilomycin A1-induced tubulation and Rab5-dependent vacuolation of early endosomes. D'Arrigo A, et al. **Eur J Cell Biol** 1997 Feb; 72(2):95–103

Activation of the plant plasma membrane H+-ATPase. Is there a direct interaction between lysophosphatidylcholine and the C-terminal part of the enzyme? Gomès E, et al. **FEBS Lett** 1996 Nov 25;398(1):48–52

Characterization of a series of vacuolar type H(+)-ATPase inhibitors on CTL-mediated cytotoxicity. Togashi K, et al. **Immunol Lett** 1997 Mar;55(3):139–44

An intrinsic ATPase inhibitor binds near the active site of yeast mitochondrial F1-ATPase. Ichikawa N, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):193–9

Mutations of pma-1, the gene encoding the plasma membrane H+-ATPase of Neurospora crassa, suppress inhibition of growth by concanamycin A, a specific inhibitor of vacuolar ATPases. Bowman EJ, et al. **J Biol Chem** 1997 Jun 6; 272(23):14776–86

Bafilomycin A1 treatment retards transferrin receptor recycling more than bulk membrane recycling. Presley JF, et al. **J Biol Chem** 1997 May 23;272(21):13929–36

IF1 function in situ in uncoupler-challenged ischemic rabbit, rat, and pigeon hearts. Rouslin W, et al. **J Biol Chem** 1996 Sep 27;271(39):23638–41

The bisphosphonate tiludronate is a potent inhibitor of the osteoclast vacuolar H(+)-ATPase. David P, et al. **J Bone Miner Res** 1996 Oct;11(10):1498–507

Specific inhibitors of vacuolar H(+)-ATPase trigger apoptotic cell death of osteoclasts. Okahashi N, et al. **J Bone Miner Res** 1997 Jul;12(7):1116–23

Bafilomycins and concanamycins as inhibitors of V-ATPases and P-ATPases. Dröse S, et al. **J Exp Biol** 1997 Jan;200 (Pt 1):1–8 (69 ref.)

Bafilomycin A1, a specific inhibitor of vacuolar-type H(+)-ATPases, inhibits the receptor-mediated endocytosis of asialoglycoproteins in isolated rat hepatocytes. Harada M, et al. **J Hepatol** 1996 May; 24(5):594–603

Japanese encephalitis virus infection in Vero cells: the involvement of intracellular acidic vesicles in the early phase of viral infection was observed with the treatment of a specific vacuolar type H+-ATPase inhibitor, bafilomycin A1. Nawa M. **Microbiol Immunol** 1997; 41(7):537–43

Release of noradrenaline from isolated rat tail artery induced by bafilomycin A1. Palatý V. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):431–7

BIOSYNTHESIS

Molecular cloning of a cDNA for the glutamate transporter of the nematode Caenorhabditis elegans. Kawano T, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):415–20

Transcriptional regulation of the proton-translocating ATPase (atpIBEFHAGDC) operon of Escherichia coli: control by cell growth rate. Kasimoglu E, et al. **J Bacteriol** 1996 Oct;178(19):5563–7

Mutations of pma-1, the gene encoding the plasma membrane H+-ATPase of Neurospora crassa, suppress inhibition of growth by concanamycin A, a specific inhibitor of vacuolar ATPases. Bowman EJ, et al. **J Biol Chem** 1997 Jun 6; 272(23):14776–86

Regulation of the nuclear gene that encodes the alpha-subunit of the mitochondrial F0F1-ATP synthase complex. Activation by upstream stimulatory factor 2. Breen GA, et al. **J Biol Chem** 1997 Apr 18;272(16):10538–42

Chronic extracellular acidosis induces plasmalemmal vacuolar type H+ ATPase activity in osteoclasts. Nordström T, et al. **J Biol Chem** 1997 Mar 7; 272(10):6354–60

Allotopic expression of mitochondrial ATP synthase genes in nucleus of Saccharomyces cerevisiae. Gray RE, et al. **Methods Enzymol** 1996;264:369–89

Immunocytological localization of an epitope-tagged plasma membrane proton pump (H(+)-ATPase) in phloem companion cells. DeWitt ND, et al. **Plant Cell** 1995 Dec; 7(12):2053–67

Sugar regulates mRNA abundance of H(+)-ATPase gene family members in tomato. Mito N, et al. **Plant Physiol** 1996 Nov;112(3):1229–36

CHEMISTRY

Mitochondrial ATP synthase: Fe2+-catalyzed fragmentation of the soluble F1-ATPase. Belogrudov GI. **Arch Biochem Biophys** 1996 Nov 1;335(1):131–8

Identification of proteolipid from an extremely halophilic archaeon Halobacterium salinarum as an N,N'-dicyclohexyl-carbodiimide binding subunit of ATP synthase. Ihara K, et al. **Arch Biochem Biophys** 1997 May 15;341(2):267–72

Structural interactions of the oligomycin sensitivity-conferring protein in the yeast ATP synthase. Mao Y, et al. **Arch Biochem Biophys** 1997 Jan 1;337(1):8–16

Escherichia coli F1-ATPase subunit interactions: beta and gamma subunit peptides inhibit in vitro reconstitution of the active alpha beta gamma complex. Shin Y, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):36–42

Mutagenesis of beta-V198 in the F1-ATPase of yeast Saccharomyces cerevisiae and its role in binding nucleotide. Sosa-Peinado A, et al. **Arch Biochem Biophys** 1997 Jan 1;337(1):27–33

Catalytic and structural importance of Gly-454, Tyr-455, and Leu-456 in the carboxy-terminal region of Escherichia coli F1-ATPase alpha subunit. Yabuki M, et al. **Arch Biochem Biophys** 1997 Feb 1;338(1):104–10

The stabilizing residues and the functional domains in the hyperthermophilic V-ATPase of Desulfurococcus. Shibui H, et al. **Biochem Biophys Res Commun** 1997 May 19; 234(2):341–5

The ATP synthase gamma subunit provides the primary site of activation of the chloroplast enzyme: experiments with a chloroplast-like Synechocystis 6803 mutant. Krenn BE, et al. **Biochem J** 1997 May 1;323 (Pt 3):841–5

Purification and crystal growth of F1-ATPase from pig heart mitochondria. Li SG, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):479–86

Electrospray ionisation mass spectrometry (ESI/MS) of ceroid lipofuscin protein; a model system for the study of F0 inhibitor interactions with mitochondrial subunit C. Ryan EM, et al. **Biochem Soc Trans** 1996 May;24(2):289S

Electrospray ionisation mass spectrometry (ESI/MS) studies of organotin interactions with ceroid lipofuscin protein (subunit C). Ryan EM, et al. **Biochem Soc Trans** 1996 May; 24(2):290S

Binding sites for Mg(II) in H(+)-ATPase from Bacillus PS3 and in the alpha 3 beta 3 gamma subcomplex studied by one-dimensional ESEEM and two-dimensional HYSCORE spectroscopy of oxovanadium(IV) complexes: a possible role for beta-His-324. Buy C, et al. **Biochemistry** 1996 Nov 12;35(45):14281–93

The F1F0-ATPase complex from bovine heart mitochondria: the molar ratio of the subunits in the stalk region linking the F1 and F0 domains. Collinson IR, et al. **Biochemistry** 1996 Sep 24;35(38):12640–6

Catalytic and EPR studies of the beta E204Q mutant of the chloroplast F1-ATPase from Chlamydomonas reinhardtii. Hu CY, et al. **Biochemistry** 1996 Sep 17;35(37):12201–11

Oligomycin sensitivity conferring protein of mitochondrial ATP synthase: deletions in the N-terminal end cause defects in interactions with F1, while deletions in the C-terminal end cause defects in interactions with F0. Joshi S, et al. **Biochemistry** 1996 Sep 17;35(37):12094–103

Asymmetry of catalytic but not of noncatalytic sites on Escherichia coli F1-ATPase in solution as observed using electron spin resonance spectroscopy. Lösel RM, et al. **Biochemistry** 1997 Feb 11;36(6):1188–93

Characterization of the alpha and beta-subunits of the F0F1-ATPase from the alga Polytomella spp., a colorless relative of Chlamydomonas reinhardtii. Atteia A, et al. **Biochim Biophys Acta** 1997 Jul 4;1320(3):275–84

Epsilon-binding regions of the gamma subunit of Escherichia coli ATP synthase. Dunn SD. **Biochim Biophys Acta** 1997 Apr 11;1319(2-3):177–84

FSBA modifies both alpha- and beta-subunits of F1 specifically and can be bound together with AXP at the same alpha-subunit. Hartog AF, et al. **Biochim Biophys Acta** 1997 Jan 16;1318(1–2):107–22

Functional complementation between transmembrane loops of Saccharomyces cerevisiae and Candida albicans plasma membrane H(+)-ATPases. Mason AB, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):181–90

Structural mapping of the epsilon-subunit of mitochondrial H(+)-ATPase complex (F1). Gabellieri E, et al. **Biophys J** 1997 Apr;72(4):1818–27

The bound adenine nucleotides of purified bovine mitochondrial ATP synthase. Beharry S, et al. **Eur J Biochem** 1996 Aug 15;240(1):165–72

Effect of nucleotides on the thermal stability and on the deuteration kinetics of the thermophilic F0F1 ATP synthase. Villaverde J, et al. **Eur J Biochem** 1997 Mar 1; 244(2):441–8

Analysis of nucleotide binding by a vacuolar proton-translocating adenosine triphosphatase. Webster LC, et al. **Eur J Biochem** 1996 Aug 15;240(1):156–64

Vacuolar H(+)-ATPase: from mammals to yeast and back. Nelson N, et al. **Experientia** 1996 Dec 15;52(12):1101–10 (102 ref.)

Yeast mitochondrial F1F0-ATPase: the novel subunit e is identical to Tim11. Arnold I, et al. **FEBS Lett** 1997 Jul 14;411(2-3):195–200

Model of the c-subunit oligomer in the membrane domain of F-ATPases. Groth G, et al. **FEBS Lett** 1997 Jun 30; 410(2-3):117–23

Nucleotide occupancy of F1-ATPase catalytic sites under crystallization conditions. Löbau S, et al. **FEBS Lett** 1997 Mar 3;404(1):15–8

Sequence of subunit c of the Na(+)-translocating F1F0 ATPase of Acetobacterium woodii: proposal for determinants of Na+ specificity as revealed by sequence comparisons. Rahlfs S, et al. **FEBS Lett** 1997 Mar 10; 404(2-3):269–71

Topographical structure of membrane-bound Escherichia coli F1F0 ATP synthase in aqueous buffer. Singh S, et al. **FEBS Lett** 1996 Nov 11;397(1):30–4

Binding of TNP-ATP and TNP-ADP to the non-catalytic sites of Escherichia coli F1-ATPase. Weber J, et al. **FEBS Lett** 1997 Jul 21;412(1):169–72

Yeast plasma-membrane H(+)-ATPase: the role of cysteine residues. Petrov VV, et al. **Folia Microbiol (Praha)** 1996; 41(1):119–21

Does the gamma subunit move to an abortive position of ATP hydrolysis when the F1.ADP.Mg complex isomerizes to the inactive F1*.ADP.Mg complex? Allison WS, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):433–8 (30 ref.)

Structural changes in the gamma and epsilon subunits of the Escherichia coli F1F0-type ATPase during energy coupling. Capaldi RA, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):397–401 (25 ref.)

Subunit rotation in F0F1-ATP synthases as a means of coupling proton transport through F0 to the binding changes in F1. Cross RL, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):403–8 (38 ref.)

Subunit movement during catalysis by F1-F0-ATP synthases. Digel JG, et al. **J Bioenerg Biomembr** 1996 Oct; 28(5):439–42 (23 ref.)

Conformational transmission in ATP synthase during catalysis: search for large structural changes. Futai M, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):409–14 (41 ref.)

The coupling of the relative movement of the a and c subunits of the F0 to the conformational changes in the F1-ATPase. Howitt SM, et al. **J Bioenerg Biomembr** 1996 Oct; 28(5):415–20 (55 ref.)

The energy transmission in ATP synthase: from the gamma-c rotor to the alpha 3 beta 3 oligomer fixed by OSCP-b stator via the beta DELSEED sequence. Kagawa Y, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):421–31 (67 ref.)

Molecular switch of F0F1-ATP synthase, G-protein, and other ATP-driven enzymes. Noji H, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):451–7 (35 ref.)

Frontiers in ATP synthase research: understanding the relationship between subunit movements and ATP synthesis. Pedersen PL. **J Bioenerg Biomembr** 1996 Oct; 28(5):389–95 (46 ref.)

The chloroplast ATP synthase: structural changes during catalysis. Richter ML, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):443–9 (52 ref.)

Rotation of a gamma-epsilon subunit domain in the Escherichia coli F1F0-ATP synthase complex. The gamma-epsilon subunits are essentially randomly distributed relative to the alpha3beta3delta domain in the intact complex. Aggeler R, et al. **J Biol Chem** 1997 Aug 1;272(31):19621–4

Subunit G of the vacuolar proton pump. Molecular characterization and functional expression. Crider BP, et al. **J Biol Chem** 1997 Apr 18;272(16):10721–8

The trapping of different conformations of the Escherichia coli F1 ATPase by disulfide bond formation. Effect on nucleotide binding affinities of the catalytic sites. Grüber G, et al. **J Biol Chem** 1996 Dec 20;271(51):32623–8

Thermophilic F1-ATPase is activated without dissociation of an endogenous inhibitor, epsilon subunit. Kato Y, et al. **J Biol Chem** 1997 Oct 3;272(40):24906–12

Novel insights into the chemical mechanism of ATP synthase. Evidence that in the transition state the gamma-phosphate of ATP is near the conserved alanine within the P-loop of the beta-subunit. Ko YH, et al. **J Biol Chem** 1997 Jul 25;272(30):18875–81

Cross-linking of engineered subunit delta to (alphabeta)3 in chloroplast F-ATPase. Lill H, et al. **J Biol Chem** 1996 Dec 20;271(51):32737–42

Site-directed mutagenesis of the yeast V-ATPase A subunit. Liu Q, et al. **J Biol Chem** 1997 May 2;272(18):11750–6

Dimerization interactions of the b subunit of the Escherichia coli F1F0-ATPase. McLachlin DT, et al. **J Biol Chem** 1997 Aug 22;272(34):21233–9

Catalytic activity of the alpha3beta3gamma complex of F1-ATPase without noncatalytic nucleotide binding site. Matsui T, et al. **J Biol Chem** 1997 Mar 28;272(13):8215–21

Cross-linking of the delta subunit to one of the three alpha subunits has no effect on functioning, as expected if delta is a part of the stator that links the F1 and F0 parts of the Escherichia coli ATP synthase. Ogilvie I, et al. **J Biol Chem** 1997 Jun 27;272(26):16652–6

Characterization and subunit structure of the ATP synthase of the halophilic archaeon Haloferax volcanii and organization of the ATP synthase genes. Steinert K, et al. **J Biol Chem** 1997 Mar 7;272(10):6261–9

Reconstitution in vitro of the V1 complex from the yeast vacuolar proton-translocating ATPase. Assembly recapitulates mechanism. Tomashek JJ, et al. **J Biol Chem** 1997 Jun 27;272(26):16618–23

Probing conserved regions of the cytoplasmic LOOP1

segment linking transmembrane segments 2 and 3 of the Saccharomyces cerevisiae plasma membrane H+-ATPase. Wang G, et al. **J Biol Chem** 1996 Oct 11;271(41):25438-45

Reconstitution of ATPase activity from individual subunits of the clathrin-coated vesicle proton pump. The requirement and effect of three small subunits. Xie XS. **J Biol Chem** 1996 Nov 29;271(48):30980-5

Characterization and cellular distribution of the osteoclast ruffled membrane vacuolar H+-ATPase B-subunit using isoform-specific antibodies. Mattsson JP, et al. **J Bone Miner Res** 1997 May;12(5):753-60

Coupling H+ transport and ATP synthesis in F1F0-ATP synthases: glimpses of interacting parts in a dynamic molecular machine. Fillingame RH. **J Exp Biol** 1997 Jan; 200 (Pt 2):217-24 (68 ref.)

Applications of fluorescence resonance energy transfer to structure and mechanism of chloroplast ATP synthase. McCarty RE. **Methods Enzymol** 1997;278:528-38 (22 ref.)

Solution structure of the N-terminal domain of the delta subunit of the E. coli ATPsynthase [letter] Wilkens S, et al. **Nat Struct Biol** 1997 Mar;4(3):198-201

The RecA hexamer is a structural homologue of ring helicases [letter] Yu X, et al. **Nat Struct Biol** 1997 Feb; 4(2):101-4

Real engines of creation [news; comment] Block SM. **Nature** 1997 Mar 20;386(6622):217-9. Comment on: Nature 1997 Mar 20;386(6622):299-302.

Direct observation of the rotation of F1-ATPase [see comments] Noji H, et al. **Nature** 1997 Mar 20; 386(6622):299-302. Comment in: Nature 1997 Mar 20;386(6622):217-9.

The dTTPase mechanism of T7 DNA helicase resembles the binding change mechanism of the F1-ATPase. Hingorani MM, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):5012-7

Stepped versus continuous rotatory motors at the molecular scale. Sabbert D, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2312-7

Use of electrospray ionization mass spectrometry and tandem mass spectrometry to study binding of F0 inhibitors to ceroid lipofuscinosis protein, a model system for subunit c of mitochondrial ATP synthase. Buzy A, et al. **Rapid Commun Mass Spectrom** 1996;10(7):790-6

The crystal structure of the nucleotide-free alpha 3 beta 3 subcomplex of F1-ATPase from the thermophilic Bacillus PS3 is a symmetric trimer. Shirakihara Y, et al. **Structure** 1997 Jun 15;5(6):825-36

DRUG EFFECTS

Modulation of maize roots H(+)-ATPase by sulfated polysaccharides. Landeira-Fernandez AM, et al. **Biosci Rep** 1996 Dec;16(6):439-51

[Tentoxin: structure-activity relationship. Application to the study of its action on chloroplast ATP-synthase] André F, et al. **C R Seances Soc Biol Fil** 1997;191(3):401-32 (124 ref.) (Eng. Abstr.) **(Fre)**

GENETICS

Activity of plasma membrane H+-ATPase and expression of PMA1 and PMA2 genes in Saccharomyces cerevisiae cells grown at optimal and low pH. Carmelo V, et al. **Arch Microbiol** 1996 Nov;166(5):315-20

ATP synthase subunit c expression: physiological regulation of the P1 and P2 genes. Andersson U, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):379-85

mRNA encoding the beta-subunit of the mitochondrial F1-ATPase complex is a localized mRNA in rat hepatocytes. Egea G, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):557-65

Identification of sequence similarity between 60 kDa and 70 kDa molecular chaperones: evidence for a common evolutionary background? Flores AI, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):641-7

Subcellular structure containing mRNA for beta subunit of mitochondrial H+-ATP synthase in rat hepatocytes is translationally active. Ricart J, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):635-43

Cloning and sequencing of the gene encoding the plasma membrane H(+)-ATPase from an acidophilic red alga, Cyanidium caldarium. Ohta H, et al. **Biochim Biophys Acta** 1997 Mar 28;1319(1):9-13

Genes of human ATP synthase: their roles in physiology and aging. Kagawa Y, et al. **Biosci Rep** 1997 Apr; 17(2):115-46 (137 ref.)

Mitochondrial ATP synthase subunit 9 is not required for viability of the petite-negative yeast Kluyveromyces lactis. Clark-Walker GD, et al. **Curr Genet** 1997 Jun;31(6):488-93

Comparative genomic hybridization analysis of Y79 and FISH mapping indicate the amplified human mitochondrial ATP synthase alpha-subunit gene (ATP5A) maps to chromosome 18q12-->q21. Godbout R, et al. **Cytogenet Cell Genet** 1997;77(3-4):253-6

Assignment of death associated protein 3 (DAP3) to human chromosome 1q21 by in situ hybridization. Kissil JL, et al. **Cytogenet Cell Genet** 1997;77(3-4):252

Genomic recombination of the mitochondrial atp6 gene in Arabidopsis thaliana at the protein processing site creates two different presequences. Marienfeld J, et al. **DNA Res** 1996 Oct 31;3(5):287-90

The absence of the mitochondrial ATP synthase delta subunit promotes a slow growth phenotype of rho- yeast cells by a lack of assembly of the catalytic sector F1. Giraud MF, et al. **Eur J Biochem** 1997 May 1;245(3):813-8

Subunit c from the sodium-ion-translocating F1F0-ATPase of Propionigenium modestum--production, purification and properties of the protein in dodecylsulfate solution. Matthey U, et al. **Eur J Biochem** 1997 Aug 1;247(3):820-5

Nucleotide occupancy of F1-ATPase catalytic sites under crystallization conditions. Löbau S, et al. **FEBS Lett** 1997 Mar 3;404(1):15-8

Mutations in subunit 6 of the F1F0-ATP synthase cause two entirely different diseases. Majander A, et al. **FEBS Lett** 1997 Jul 28;412(2):351-4

Sense and antisense RNA for the membrane associated 40 kDa subunit M40 of the insect V-ATPase. Merzendorfer H, et al. **FEBS Lett** 1997 Jul 14;411(2-3):239-44

Characterization of dominant lethal mutations in the yeast plasma membrane H+-ATPase gene. Portillo F. **FEBS Lett** 1997 Feb 3;402(2-3):136-40

Yeast plasma-membrane H(+)-ATPase: the role of cysteine residues. Petrov VV, et al. **Folia Microbiol (Praha)** 1996; 41(1):119-21

Cloning and nucleotide sequence analysis of the Streptococcus mutans membrane-bound, proton-translocating ATPase operon. Smith AJ, et al. **Gene** 1996 Dec 12;183(1-2):87-96

Nuclear factor YY1 activates the mammalian F0F1 ATP synthase alpha-subunit gene. Breen GA, et al. **Gene Expr** 1996;5(3):181-91

The mitochondrial genome integrity gene, MGI1, of Kluyveromyces lactis encodes the beta-subunit of F1-ATPase. Chen XJ, et al. **Genetics** 1996 Dec; 144(4):1445-54

Cloning and sequence of a gene for a homologue of the C subunit of the V-ATPase from the salivary gland of the tick Amblyomma americanum (L). McSwain JL, et al. **Insect Mol Biol** 1997 Feb;6(1):67-76

Composition and primary structure of the F1F0 ATP synthase from the obligately anaerobic bacterium Clostridium thermoaceticum. Das A, et al. **J Bacteriol** 1997 Jun;179(11):3746-55

Mutations of pma-1, the gene encoding the plasma membrane H+-ATPase of Neurospora crassa, suppress inhibition of growth by concanamycin A, a specific inhibitor of vacuolar ATPases. Bowman EJ, et al. **J Biol Chem** 1997 Jun 6; 272(23):14776-86

Regulation of the nuclear gene that encodes the alpha-subunit of the mitochondrial F0F1-ATP synthase complex. Activation by upstream stimulatory factor 2. Breen GA, et al. **J Biol Chem** 1997 Apr 18;272(16):10538-42

Analysis and inactivation of vha55, the gene encoding the vacuolar ATPase B-subunit in Drosophila melanogaster reveals a larval lethal phenotype. Davies SA, et al. **J Biol Chem** 1996 Nov 29;271(48):30677-84

A novel transcription factor regulates expression of the vacuolar H+-ATPase B2 subunit through AP-2 sites during monocytic differentiation. Lee BS, et al. **J Biol Chem** 1997 Jan 3;272(1):174-81

Site-directed mutagenesis of the 100-kDa subunit (Vph1p) of the yeast vacuolar (H+)-ATPase [published erratum appears in J Biol Chem 1996 Nov 8;271(45):28725] Leng XH, et al. **J Biol Chem** 1996 Sep 13;271(37):22487-93

Characterization of mutations in the beta subunit of the mitochondrial F1-ATPase that produce defects in enzyme catalysis and assembly. Liang Y, et al. **J Biol Chem** 1996 Oct 25;271(43):26522-8

Three vha genes encode proteolipids of Caenorhabditis elegans vacuolar-type ATPase. Gene structures and preferential expression in an H-shaped excretory cell and rectal cells. Oka T, et al. **J Biol Chem** 1997 Sep 26; 272(39):24387-92

Gene expression of subunit c(P1), subunit c(P2), and oligomycin sensitivity-conferring protein may play a key role in biogenesis of H+-ATP synthase in various rat tissues. Sangawa H, et al. **J Biol Chem** 1997 Feb 28; 272(9):6034-7

Novel genes involved in endosomal traffic in yeast revealed by suppression of a targeting-defective plasma membrane ATPase mutant. Luo Wj, et al. **J Cell Biol** 1997 Aug 25; 138(4):731-46

Antisense RNA inhibition of the putative vacuolar H(+)-ATPase proteolipid of Dictyostelium reduces intracellular Ca2+ transport and cell viability. Xie Y, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):489-97

Upregulation of host mitochondrial ATPase 6 gene in Pneumocystis carinii-infected rat lungs. Asnicar MA, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):38S

Molecular genetic analysis of V-ATPase function in Drosophila melanogaster. Dow JA, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):237-45 (69 ref.)

Control of the translational efficiency of beta-F1-ATPase mRNA depends on the regulation of a protein that binds the 3' untranslated region of the mRNA. Izquierdo JM, et al. **Mol Cell Biol** 1997 Sep;17(9):5255-68

Cloning and characterization of the lipoyl-protein ligase gene LIPB from the yeast Kluyveromyces lactis: synergistic respiratory deficiency due to mutations in LIPB and mitochondrial F1-ATPase subunits. Chen XJ. **Mol Gen Genet** 1997 Jul;255(3):341-9

Vacuolar H(+)-ATPase and weak base action in Dictyostelium. Davies L, et al. **Mol Microbiol** 1996 Oct; 22(1):119-26

Leigh syndrome associated with mitochondrial DNA 8993 T-->G mutation and ragged-red fibers. Mak SC, et al. **Pediatr Neurol** 1996 Jul;15(1):72-5

Two plasma membrane H(+)-ATPase genes expressed in guard cells of Vicia faba are also expressed throughout the plant. Hentzen AE, et al. **Plant Cell Physiol** 1996 Jul; 37(5):650-9

Different sequences for 5'-untranslated leaders of nuclear genes for plastid proteins affect the expression of the beta-glucuronidase gene. Bolle C, et al. **Plant Mol Biol** 1996 Dec;32(5):861-8

RNA processing alters open reading frame stoichiometry from the large ATP synthase gene cluster of spinach chloroplasts. Hotchkiss T, et al. **Plant Mol Biol** 1997 Mar; 33(4):635-40

Salt stress induces an increased expression of V-type H(+)-ATPase in mature sugar beet leaves. Kirsch M, et al. **Plant Mol Biol** 1996 Nov;32(3):543-7

Isolation and characterization of the mitochondrial ATP synthase from Chlamydomonas reinhardtii. cDNA sequence and deduced protein sequence of the alpha subunit. Nurani G, et al. **Plant Mol Biol** 1996 Sep; 31(6):1105-16

Transcription initiation sites for sorghum mitochondrial atp9 are positioned immediately 3' to trnfM. Yan B, et al. **Plant Mol Biol** 1997 Jul;34(5):823-9

Primary structure and effect of pH on the expression of the plasma membrane H(+)-ATPase from Dunaliella acidophila and Dunaliella salina. Weiss M, et al. **Plant Physiol** 1996 Dec;112(4):1693-702

Transgenic male-sterile plant induced by an unedited atp9 gene is restored to fertility by inhibiting its expression with antisense RNA. Zabaleta E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11259-63

ISOLATION & PURIFICATION

Separation by blue native and colorless native polyacrylamide gel electrophoresis of the oxidative phosphorylation complexes of yeast mitochondria solubilized by different detergents: specific staining of the different complexes. Grandier-Vazeille X, et al. **Anal Biochem** 1996 Nov 15; 242(2):248-54

Isolation and comparative studies of mitochondrial F1-ATPase from rat testis and beef heart. Vázquez-Memije ME, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Mar;116(3):303-9

An improved purification of ECF1 and ECF1F0 by using a cytochrome bo-deficient strain of Escherichia coli facilitates crystallization of these complexes. Grüber G, et al. **FEBS Lett** 1997 Jun 30;410(2-3):165-8

Purification and reconstitution into proteoliposomes of the F1F0 ATP synthase from the obligately anaerobic gram-positive bacterium Clostridium thermoautotrophicum. Das A, et al. **J Bacteriol** 1997 Mar; 179(5):1714-20

Purification and reconstitution of the vacuolar H+-ATPases from lemon fruits and epicotyls. Müller ML, et al. **J Biol Chem** 1997 May 9;272(19):12762-70

Targeting of two Arabidopsis H(+)-ATPase isoforms to the plasma membrane. DeWitt ND, et al. **Plant Physiol** 1996 Oct;112(2):833-44

METABOLISM

Accumulation of mitochondrial ATP synthase subunit c in muscle in a patient with neuronal ceroid lipofuscinosis (late infantile form). Umehara F, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):628-32

Lysosomal proteinosis based on decreased degradation of a specific protein, mitochondrial ATP synthase subunit C: Batten disease. Ezaki J, et al. **Adv Exp Med Biol** 1996; 389:121-8 (31 ref.)

Osteoclasts express the B2 isoform of vacuolar H(+)-ATPase intracellularly and on their plasma membranes. Lee BS, et al. **Am J Physiol** 1996 Jan;270(1 Pt 1):C382-8

ANG II-dependent HCO3- reabsorption in surviving rat distal tubules: expression/activation of H(+)-ATPase. Levine DZ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):F799-808

Effects of A-23187 and verapamil on the active transport enzymes in turtle bladder epithelial cells. Sabatini S. **Am J Physiol** 1997 May;272(5 Pt 2):R1379-89

The F0F1-type ATP synthases of bacteria: structure and function of the F0 complex. Deckers-Hebestreit G, et al. **Annu Rev Microbiol** 1996;50:791-824 (174 ref.)

Activity of H(+)-ATPase in ruminal bacteria with special reference to acid tolerance. Miwa T, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2155-8

Mitochondrial ATP synthase: Fe2+-catalyzed fragmentation of the soluble F1-ATPase. Belogrudov GI. **Arch Biochem Biophys** 1996 Nov 1;335(1):131-8

Characterization of the import pathway of the F(A)d subunit of mitochondrial ATP synthase into isolated plant mitochondria. Dessi P, et al. **Arch Biochem Biophys** 1996 Nov 15;335(2):358-68

Probing energy coupling in the yeast plasma membrane H+-ATPase with acetyl phosphate. Wang G, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):309-15

Catalytic and structural importance of Gly-454, Tyr-455, and Leu-456 in the carboxy-terminal region of Escherichia coli F1-ATPase alpha subunit. Yabuki M, et al. **Arch Biochem Biophys** 1997 Feb 1;338(1):104-10

H(+)-TRANSPORTING ATP SYNTHASE

Activity of plasma membrane H+-ATPase and expression of PMA1 and PMA2 genes in Saccharomyces cerevisiae cells grown at optimal and low pH. Carmelo V, et al. **Arch Microbiol** 1996 Nov;166(5):315–20

Effects of ADP, DTT, and Mg2+ on the ion-conductive property of chloroplast H+-ATPase(CF0-CF1) reconstituted into bilayer membrane. Ma XH, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):461–3

F1F0-ATPase, early target of the radical initiator 2,2'-azobis-(2-amidinopropane) dihydrochloride in rat liver mitochondria in vitro. Beauseigneur F, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):571–6

The vacuolar H+-ATPase: a universal proton pump of eukaryotes. Finbow ME, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):697–712 (227 ref.)

Glucose-independent inhibition of yeast plasma-membrane H+-ATPase by calmodulin antagonists. Romero I, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):823–8

Batten disease and mitochondrial pathways of proteolysis. Tanner AJ, et al. **Biochem Mol Med** 1996 Feb;57(1):1–9 (63 ref.)

ADP-fluoroaluminate complexes are formed cooperatively at two catalytic sites of wild-type and mutant alpha3beta3gamma subcomplexes of the F1-ATPase from the thermophilic Bacillus PS3. Dou C, et al. **Biochemistry** 1997 Mar 25;36(12):3719–27

Catalytic and EPR studies of the beta E204Q mutant of the chloroplast F1-ATPase from Chlamydomonas reinhardtii. Hu CY, et al. **Biochemistry** 1996 Sep 17;35(37):12201–11

Oligomycin sensitivity conferring protein of mitochondrial ATP synthase: deletions in the N-terminal end cause defects in interactions with F1, while deletions in the C-terminal end cause defects in interactions with F0. Joshi S, et al. **Biochemistry** 1996 Sep 17;35(37):12094–103

Oligomycin sensitivity conferring protein (OSCP) of bovine heart mitochondrial ATP synthase: high-affinity OSCP-Fo interactions require a local alpha-helix at the C-terminal end of the subunit. Joshi S, et al. **Biochemistry** 1997 Sep 9;36(36):10936–43

Molecular basis for the coupling ion selectivity of F1F0 ATP synthases: probing the liganding groups for Na+ and Li+ in the c subunit of the ATP synthase from Propionigenium modestum. Kaim G, et al. **Biochemistry** 1997 Jul 29; 36(30):9185–94

Synthesis, structure, and properties of MeSer1-tentoxin, a new cyclic tetrapeptide which interacts specifically with chloroplast F1 H(+)-ATPase differentiation of inhibitory and stimulating effects. Pinet E, et al. **Biochemistry** 1996 Oct 1;35(39):12804–11

Effect of extracellular acidification on the activity of plasma membrane ATPase and on the cytosolic and vacuolar pH of Saccharomyces cerevisiae. Carmelo V, et al. **Biochim Biophys Acta** 1997 Apr 3;1325(1):63–70

Epsilon-binding regions of the gamma subunit of Escherichia coli ATP synthase. Dunn SD. **Biochim Biophys Acta** 1997 Apr 11;1319(2-3):177–84

FSBA modifies both alpha- and beta-subunits of F1 specifically and can be bound together with AXP at the same alpha-subunit. Hartog AF, et al. **Biochim Biophys Acta** 1997 Jan 16;1318(1-2):107–22

The Escherichia coli F1-ATPase mutant beta Tyr-297-->Cys: functional studies and asymmetry of the enzyme under various nucleotide conditions based on reaction of the introduced Cys with N-ethylmaleimide and 7-chloro-4-nitrobenzofurazan. Haughton MA, et al. **Biochim Biophys Acta** 1996 Sep 12;1276(2):154–60

Late-infantile ceroid-lipofuscinosis: lysine methylation of mitochondrial ATP synthase subunit c from lysosomal storage bodies. Katz ML, et al. **Biochim Biophys Acta** 1997 Jul 10;1361(1):66–74

Functional complementation between transmembrane loops of Saccharomyces cerevisiae and Candida albicans plasma membrane H(+)-ATPases. Mason AB, et al. **Biochim Biophys Acta** 1996 Oct 23;1284(2):181–90

Modification of membrane-bound F1 by p-fluorosulfonylbenzoyl-5'-adenosine: sites of binding and effect on activity. van der Zwet-de Graaff I, et al. **Biochim Biophys Acta** 1997 Jan 16;1318(1-2):123–32

Catalytic mechanism of F1-ATPase. Weber J, et al. **Biochim Biophys Acta** 1997 Mar 28;1319(1):19–58 (284 ref.)

Hsp30, the integral plasma membrane heat shock protein of Saccharomyces cerevisiae, is a stress-inducible regulator of plasma membrane H(+)-ATPase. Piper PW, et al. **Cell Stress Chaperones** 1997 Mar;2(1):12–24

Ductin, a component of the V-ATPase, is developmentally regulated in Heliothis virescens midgut, and anti-ductin antibodies label lateral membranes. Pietrantonio PV, et al. **Cell Tissue Res** 1997 Jul;289(1):97–108

Isolation and comparative studies of mitochondrial F1-ATPase from rat testis and beef heart. Vázquez-Memije ME, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Mar;116(3):303–9

Plant metabolism: enzyme regulation by 14-3-3 proteins. Sehnke PC, et al. **Curr Biol** 1996 Nov 1;6(11):1403–5

Oxa1p, which is required for cytochrome c oxidase and ATP synthase complex formation, is embedded in the mitochondrial inner membrane. Kermorgant M, et al. **Curr Genet** 1997 Apr;31(4):302–7

Single point mutations in various domains of a plant plasma membrane H(+)-ATPase expressed in Saccharomyces cerevisiae increase H(+)-pumping and permit yeast growth at low pH. Morsomme P, et al. **EMBO J** 1996 Oct 15;15(20):5513–26

Membrane proteins which exhibit multiple topological orientations. Levy D. **Essays Biochem** 1996;31:49–60 (21 ref.)

Turnover number of Escherichia coli F0F1 ATP synthase for ATP synthesis in membrane vesicles. Etzold C, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):336–43

The regulatory functions of the gamma and epsilon subunits from chloroplast CF1 are transferred to the core complex, alpha3beta3, from thermophilic bacterial F1. Hisabori T, et al. **Eur J Biochem** 1997 Aug 1;247(3):1158–65

Complex ATP-activation kinetics of plant H+-transporting ATPase may or may not require two substrate sites. Roberts G, et al. **Eur J Biochem** 1997 May 15;246(1):228–32

The subunit f of mitochondrial yeast ATP synthase--characterization of the protein and disruption of the structural gene ATP17. Spannagel C, et al. **Eur J Biochem** 1997 Aug 1;247(3):1111–7

Effect of nucleotides on the thermal stability and on the deuteration kinetics of the thermophilic F0F1 ATP synthase. Villaverde J, et al. **Eur J Biochem** 1997 Mar 1; 244(2):441–8

Analysis of nucleotide binding by a vacuolar proton-translocating adenosine triphosphatase. Webster LC, et al. **Eur J Biochem** 1996 Aug 15;240(1):156–64

Monensin-induced redistribution of enzymes and products from Golgi stacks to swollen vesicles in plant cells. Zhang GF, et al. **Eur J Cell Biol** 1996 Dec;71(4):332–40

Subunit a of proton ATPase F0 sector is a substrate of the FtsH protease in Escherichia coli. Akiyama Y, et al. **FEBS Lett** 1996 Dec 9;399(1-2):26–8

Glucose activation of the yeast plasma membrane H+-ATPase requires the ubiquitin-proteasome proteolytic pathway. de la Fuente N, et al. **FEBS Lett** 1997 Jul 14; 411(2-3):308–12

Activation of the plant plasma membrane H+-ATPase. Is there a direct interaction between lysophosphatidylcholine and the C-terminal part of the enzyme? Gomès E, et al. **FEBS Lett** 1996 Nov 25;398(1):48–52

Kinetic modelling of the proton translocating CF0CF1-ATP synthase from spinach. Pänke O, et al. **FEBS Lett** 1996 Apr 1;383(3):196–200

Tentoxin has at least two binding sites on CF1 and epsilon-depleted CF1 ATPases isolated from spinach chloroplast. Pinet E, et al. **FEBS Lett** 1996 Oct 21; 395(2-3):217–20

Sequence of subunit c of the Na(+)-translocating F1F0 ATPase of Acetobacterium woodii: proposal for determinants of Na+ specificity as revealed by sequence comparisons. Rahlfs S, et al. **FEBS Lett** 1997 Mar 10; 404(2-3):269–71

Unusual pKa of the carboxylate at the putative catalytic position of the thermophilic F1-ATPase beta subunit determined by 13C-NMR. Tozawa K, et al. **FEBS Lett** 1996 Nov 11;397(1):122–6

Binding of TNP-ATP and TNP-ADP to the non-catalytic sites of Escherichia coli F1-ATPase. Weber J, et al. **FEBS Lett** 1997 Jul 21;412(1):169–72

The effect of mild trypsin digestion of F1 on energy coupling in the mitochondrial ATP synthase. Xu T, et al. **FEBS Lett** 1996 Nov 18;397(2-3):308–12

Preservation of intercalated cell H(+)-ATPase in two patients with lupus nephritis and hyperkalemic distal renal tubular acidosis. Bastani B, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1109–17

Adaptational changes in renal vacuolar H(+)-ATPase in the rat remnant kidney. Bastani B, et al. **J Am Soc Nephrol** 1997 Jun;8(6):868–79

Purification and reconstitution into proteoliposomes of the F1F0 ATP synthase from the obligately anaerobic gram-positive bacterium Clostridium thermoautotrophicum. Das A, et al. **J Bacteriol** 1997 Mar; 179(5):1714–20

An intrinsic ATPase inhibitor binds near the active site of yeast mitochondrial F1-ATPase. Ichikawa N, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):193–9

The heterogeneous interaction of substoichiometric TNP-ATP and F1-ATPase from Escherichia coli. Muneyuki E, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):940–5

Properties of H(+)-ATPase from rat liver lysosomes as revealed by reconstitution into proteoliposomes. Okamoto M, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):608–15

Does the gamma subunit move to an abortive position of ATP hydrolysis when the F1.ADP.Mg complex isomerizes to the inactive F1*.ADP.Mg complex? Allison WS, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):433–8 (30 ref.)

Modification of domains of alpha and beta subunits of F1-ATPase from the thermophylic bacterium PS3, in their isolated and associated forms, by 3'-O-(4-benzoyl)benzoyl adenosine 5'-triphosphate (BzATP). Bar-Zvi D, et al. **J Bioenerg Biomembr** 1996 Dec;28(6):471–81

Subunit rotation in F0F1-ATP synthases as a means of coupling proton transport through F0 to the binding changes in F1. Cross RL, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):403–8 (38 ref.)

Subunit movement during catalysis by F1-F0-ATP synthases. Digel JG, et al. **J Bioenerg Biomembr** 1996 Oct; 28(5):439–42 (23 ref.)

Conformational transmission in ATP synthase during catalysis: search for large structural changes. Futai M, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):409–14 (41 ref.)

Unisite hydrolysis of [gamma 32 P]ATP by soluble mitochondrial F1-ATPase and its release by excess ADP and ATP. Effect of trifluoperazine. García JJ, et al. **J Bioenerg Biomembr** 1997 Feb;29(1):61–70

The coupling of the relative movement of the a and c subunits of the F0 to the conformational changes in the F1-ATPase. Howitt SM, et al. **J Bioenerg Biomembr** 1996 Oct; 28(5):415–20 (55 ref.)

Experimental determination of control by the H(+)-ATPase in Escherichia coli. Jensen PR, et al. **J Bioenerg Biomembr** 1995 Dec;27(6):543–54 (35 ref.)

The energy transmission in ATP synthase: from the gamma-c rotor to the alpha 3 beta 3 oligomer fixed by OSCP-b stator via the beta DELSEED sequence. Kagawa Y, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):421–31 (67 ref.)

Molecular switch of F0F1-ATP synthase, G-protein, and other ATP-driven enzymes. Noji H, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):451–7 (35 ref.)

The chloroplast ATP synthase: structural changes during catalysis. Richter ML, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):443–9 (52 ref.)

Calcium binding to the subunit c of E. coli ATP-synthase and possible functional implications in energy coupling. Zakharov SD, et al. **J Bioenerg Biomembr** 1996 Dec; 28(6):483–94

Alanine-scanning mutagenesis along membrane segment 4 of the yeast plasma membrane H+-ATPase. Effects on structure and function. Ambesi A, et al. **J Biol Chem** 1996 Sep 20;271(38):22999–3005

Protein splicing of the Saccharomyces cerevisiae VMA intein without the endonuclease motifs. Chong S, et al. **J Biol Chem** 1997 Jun 20;272(25):15587–90

Subunit G of the vacuolar proton pump. Molecular characterization and functional expression. Crider BP, et al. **J Biol Chem** 1997 Apr 18;272(16):10721–8

Phosphorylation of yeast plasma membrane H+-ATPase by casein kinase I. Estrada E, et al. **J Biol Chem** 1996 Dec 13;271(50):32064–72

VMA11 and VMA16 encode second and third proteolipid subunits of the Saccharomyces cerevisiae vacuolar membrane H+-ATPase. Hirata R, et al. **J Biol Chem** 1997 Feb 21;272(8):4795–803

The alpha3beta3gamma subcomplex of the F1-ATPase from the thermophilic bacillus PS3 with the betaT165S substitution does not entrap inhibitory MgADP in a catalytic site during turnover. Jault JM, et al. **J Biol Chem** 1996 Nov 15;271(46):28818–24

Thermophilic F1-ATPase is activated without dissociation of an endogenous inhibitor, epsilon subunit. Kato Y, et al. **J Biol Chem** 1997 Oct 3;272(40):24906–12

Characterization of mutations in the beta subunit of the mitochondrial F1-ATPase that produce defects in enzyme catalysis and assembly. Liang Y, et al. **J Biol Chem** 1996 Oct 25;271(43):26522–8

Site-directed mutagenesis of the yeast V-ATPase A subunit. Liu Q, et al. **J Biol Chem** 1997 May 2;272(18):11750–6

F1-ATPase, roles of three catalytic site residues. Löbau S, et al. **J Biol Chem** 1997 Feb 7;272(6):3648–56

Catalytic activity of the alpha3beta3gamma complex of F1-ATPase without noncatalytic nucleotide binding site. Matsui T, et al. **J Biol Chem** 1997 Mar 28;272(13):8215–21

Reactive cysteines of the yeast plasma-membrane H+-ATPase (PMA1). Mapping the sites of inactivation by N-ethylmaleimide. Petrov VV, et al. **J Biol Chem** 1997 Jan 17;272(3):1688–93

ATP synthase. Conditions under which all catalytic sites of the F1 moiety are kinetically equivalent in hydrolyzing ATP. Reynafarje BD, et al. **J Biol Chem** 1996 Dec 20; 271(51):32546–50

Localization of a conformational energy-coupling determinant near the C terminus of the beta subunit of the F1F0-ATPase. Schemidt RA, et al. **J Biol Chem** 1996 Dec 27;271(52):33390–3

Kinetics and thioredoxin specificity of thiol modulation of the chloroplast H+-ATPase. Schwarz O, et al. **J Biol Chem** 1997 Jul 4;272(27):16924–7

Energy coupling, turnover, and stability of the F0F1 ATP synthase are dependent on the energy of interaction between gamma and beta subunits. Al-Shawi MK, et al. **J Biol Chem** 1997 Jan 24;272(4):2300–6

Covalent attachment of FAD derivatives to a fusion protein consisting of 6-hydroxy-D-nicotine oxidase and a mitochondrial presequence. Folding, enzyme activity, and import of the modified protein into yeast mitochondria. Stoltz M, et al. **J Biol Chem** 1996 Oct 11;271(41):25208–12

The stalk region of the Escherichia coli ATP synthase. Tyrosine 205 of the gamma subunit is in the interface between the F1 and F0 parts and can interact with both the epsilon and c oligomer. Watts SD, et al. **J Biol Chem** 1996 Nov 8;271(45):28341–7

Interactions between the F1 and F0 parts in the Escherichia coli ATP synthase. Associations involving the loop region of C subunits. Watts SD, et al. **J Biol Chem** 1997 Jun 13; 272(24):15065–8

Differential effects of tamoxifen-like compounds on osteoclastic bone degradation, H(+)-ATPase activity, calmodulin-dependent cyclic nucleotide phosphodiesterase activity, and calmodulin binding. Williams JP, et al. **J Cell Biochem** 1997 Sep 1;66(3):358–69

Effects of cell culture time and bone matrix exposure on calmodulin content and ATP-dependent cell membrane acid transport in avian osteoclasts and macrophages.

Williams JP, et al. **J Cell Physiol** 1996 Dec;169(3):411-9

Involvement of the vacuolar proton-translocating ATPase in multiple steps of the endo-lysosomal system and in the contractile vacuole system of Dictyostelium discoideum. Temesvari LA, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1479-95

Distributional changes of osteoclasts and pre-osteoclastic cells in periodontal tissues during experimental tooth movement as revealed by quantitative immunohistochemistry of H(+)-ATPase. Yokoya K, et al. **J Dent Res** 1997 Jan;76(1):580-7

Animal plasma membrane energization by chemiosmotic H+ V-ATPases. Harvey WR, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):203-16 (92 ref.)

Immunolocalization of proton-ATPase in the gills of the elasmobranch, Squalus acanthias. Wilson JM, et al. **J Exp Zool** 1997 Jun 1;278(2):78-86

An immunocytochemical study of H+ ATPase in kidney transplant rejection. Jordan M, et al. **J Lab Clin Med** 1996 Mar;127(3):310-4

Reaction kinetics of the vacuolar H(+)-pumping ATPase in beta vulgaris. Davies JM, et al. **J Membr Biol** 1996 Apr; 150(3):231-41

Role of Cl- in electrogenic H+ secretion by cortical distal tubule. Fernández R, et al. **J Membr Biol** 1997 May 15; 157(2):193-201

The H+ pump in frog skin (Rana esculenta): identification and localization of a V-ATPase. Klein U, et al. **J Membr Biol** 1997 May 15;157(2):117-26

Specific delay in the degradation of mitochondrial ATP synthase subunit c in late infantile neuronal ceroid lipofuscinosis is derived from cellular proteolytic dysfunction rather than structural alteration of subunit c. Ezaki J, et al. **J Neurochem** 1996 Oct;67(4):1677-87

The bovine papillomavirus type 4 E8 protein binds to ductin and causes loss of gap junctional intercellular communication in primary fibroblasts. Faccini AM, et al. **J Virol** 1996 Dec;70(12):9041-5

Regulation of AE1 anion exchanger and H(+)-ATPase in rat cortex by acute metabolic acidosis and alkalosis. Sabolić I, et al. **Kidney Int** 1997 Jan;51(1):125-37

Alteration in membrane fluidity and lipid composition, and modulation of H(+)-ATPase activity in Saccharomyces cerevisiae caused by decanoic acid. Alexandre H, et al. **Microbiology** 1996 Mar;142 (Pt 3):469-75

Biochemical mechanisms and regulation of hydrogen transport in renal tubules. Eiam-Ong S, et al. **Miner Electrolyte Metab** 1996;22(5-6):366-81 (237 ref.)

Heart FoF1-ATPase changes during the acute phase of Trypanosoma cruzi infection in rats. Uyemura SA, et al. **Mol Cell Biochem** 1996 Dec 20;165(2):127-33

Postulate for the molecular mechanism of the vacuolar H(+)-ATPase (hypothesis). Harrison MA, et al. **Mol Membr Biol** 1997 Jan-Mar;14(1):1-3

Chromaffin granule membrane glycoprotein IV is identical with Ac45, a membrane-integral subunit of the granule's H(+)-ATPase. Getlawi F, et al. **Neurosci Lett** 1996 Nov 15;219(1):13-6

Absence of vacuolar H+-ATPases from rat small intestine brush-border membranes. Sabolic I, et al. **Pflugers Arch** 1997 Aug;434(4):495-8

Characterization of the F1F0-ATPase and the tightly-bound ATPase activities in submitochondrial particles from human term placenta. Martínez F, et al. **Placenta** 1996 Jul-Aug;17(5-6):345-50

A major isoform of the maize plasma membrane H(+)-ATPase: characterization and induction by auxin in coleoptiles. Frías I, et al. **Plant Cell** 1996 Sep;8(9):1533-44

Modified plant plasma membrane H(+)-ATPase with improved transport coupling efficiency identified by mutant selection in yeast. Baunsgaard L, et al. **Plant J** 1996 Sep; 10(3):451-8

Changes in the level and activation state of the plasma membrane H(+)-ATPase during aging of red beet slices. Papini R, et al. **Plant Physiol** 1997 Jul;114(3):857-62

The dTTPase mechanism of T7 DNA helicase resembles the binding change mechanism of the F1-ATPase. Hingorani MM, et al. **Proc Natl Acad Sci U S A** 1997 May 13; 94(10):5012-7

A column centrifugation method for the reconstitution in liposomes of the mitochondrial F0F1 ATP synthase/ATPase. Vázquez-Contreras E, et al. **Protein Expr Purif** 1996 Mar;7(2):55-9

The crystal structure of the nucleotide-free alpha 3 beta 3 subcomplex of F1-ATPase from the thermophilic Bacillus PS3 is a symmetric trimer. Shirakihara Y, et al. **Structure** 1997 Jun 15;5(6):825-36

Kupffer cells generate superoxide anions and modulate lipid peroxidation and mitochondrial proton ATP-ASE activity in the perfused rat liver after cold preservation. Shibuya H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1328-30

Review: subcellular traffic of the plasma membrane H(+)-ATPase in Saccharomyces cerevisiae. de Kerchove d'Exaerde A, et al. **Yeast** 1996 Aug;12(10):907-16 (64 ref.)

BTN1, a yeast gene corresponding to the human gene responsible for Batten's disease, is not essential for viability, mitochondrial function, or degradation of mitochondrial ATP synthase. Pearce DA, et al. **Yeast** 1997 Jun 30; 13(8):691-7

[Effect of phospholipase A2 on H+-ATPase in the plasma membrane of H+-ATPase in maize root cells] Nasyrova GF, et al. **Ukr Biokhim Zh** 1996 Nov-Dec;68(6):38-44 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Adaptation to low-K+ media increases H(+)-K(+)-ATPase but not H(+)-ATPase-mediated pHi recovery in OMCD1 cells. Guntupalli J, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C558-71

The ATP synthase--a splendid molecular machine. Boyer PD. **Annu Rev Biochem** 1997;66:717-49 (249 ref.)

Genes of human ATP synthase: their roles in physiology and aging. Kagawa Y, et al. **Biosci Rep** 1997 Apr; 17(2):115-46 (137 ref.)

Vacuolar-type H(+)-ATPase in mouse bladder epithelium is responsible for urinary acidification. Tomochika K, et al. **FEBS Lett** 1997 Mar 3;404(1):61-4

Acidification of vacuoles is required for autophagic degradation in the yeast, Saccharomyces cerevisiae. Nakamura N, et al. **J Biochem (Tokyo)** 1997 Feb; 121(2):338-44

Structural changes in the gamma and epsilon subunits of the Escherichia coli F1F0-type ATPase during energy coupling. Capaldi RA, et al. **J Bioenerg Biomembr** 1996 Oct;28(5):397-401 (25 ref.)

Frontiers in ATP synthase research: understanding the relationship between subunit movements and ATP synthesis. Pedersen PL. **J Bioenerg Biomembr** 1996 Oct; 28(5):389-95 (46 ref.)

Role of V-ATPase-rich cells in acidification of the male reproductive tract. Brown D, et al. **J Exp Biol** 1997 Jan; 200 (Pt 2):257-62 (63 ref.)

The key role of the H+ V-ATPase in acid-base balance and Na+ transport processes in frog skin. Ehrenfeld J, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):247-56 (78 ref.)

Regulation of proton-translocating V-ATPases. Merzendorfer H, et al. **J Exp Biol** 1997 Jan;200 (Pt 2):225-35 (82 ref.)

The role of vacuolar H(+)-ATPase in the control of intragranular pH and exocytosis in eosinophils. Kurashima K, et al. **Lab Invest** 1996 Nov;75(5):689-98

Functional and idling rotatory motion within F1-ATPase. Sabbert D, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29; 94(9):4401-5

Regulation of vacuolar acidification. Forgac M. **Soc Gen Physiol Ser** 1996;51:121-32 (51 ref.)

Mechanisms and regulation of H+ transport in distal tubule epithelial cells. Malnic G, et al. **Wien Klin Wochenschr** 1997 Jun 27;109(12-13):429-34

RADIATION EFFECTS

The effect of low-intensity laser irradiation on the hydrolytic activity of vacuolar membrane proton pumps [letter] Ozolina NV, et al. **Membr Cell Biol** 1997;11(1):157-9

H(+)-TRANSPORTING ATPASE see **H(+)-TRANSPORTING ATP SYNTHASE**

H-D ANTIBODIES see **ANTIBODIES, HETEROPHILE**

H-D ANTIGENS see **ANTIGENS, HETEROPHILE**

H-REFLEX

H-reflex, F-wave, transitional and missed response frequency distribution in limb muscles. Doko-Guina F, et al. **Acta Med Croatica** 1997;51(1):15-21

Reflex studies and MRI in the restless legs syndrome. Bucher SF, et al. **Acta Neurol Scand** 1996 Aug;94(2):145-50

Reversal of H-reflex operant conditioning in the rat. Chen XY, et al. **Exp Brain Res** 1996 Nov;112(1):58-62

Proximally evoked soleus H reflexes in the evaluation of axonal neuropathy. Sachs GM, et al. **J Neurol Sci** 1996 Jun;138(1-2):88-92

Operant conditioning of H-reflex in spinal cord-injured rats. Chen XY, et al. **J Neurotrauma** 1996 Dec;13(12):755-66

Mood, neuromuscular function, and performance during training in female swimmers. Raglin JS, et al. **Med Sci Sports Exerc** 1996 Mar;28(3):372-7

Are H reflexes and F responses equally sensitive to changes in motoneuronal excitability? Fisher MA. **Muscle Nerve** 1996 Oct;19(10):1345-6

Comments: methodological problems of comparing F responses and H reflexes. Hultborn H, et al. **Muscle Nerve** 1996 Oct;19(10):1347-8

Behavior of the H-reflex in humans following mechanical perturbation or injury to rostral spinal cord. Leis AA, et al. **Muscle Nerve** 1996 Nov;19(11):1373-82

The relative sensitivity of F wave and H reflex to changes in motoneuronal excitability. Leis AA, et al. **Muscle Nerve** 1996 Oct;19(10):1342-4

H reflex in S-1 radiculopathy: latency versus amplitude controversy revisited. Nishida T, et al. **Muscle Nerve** 1996 Jul;19(7):915-7

PHYSIOLOGY

Reciprocal inhibition in Parkinson's disease. Tsai CH, et al. **Acta Neurol Scand** 1997 Jan;95(1):13-8

Late facilitation of the human soleus H reflex induced by sustained isometric maneuver. Chuang TY, et al. **Am J Phys Med Rehabil** 1997 May-Jun;76(3):188-90

H reflex amplitude. Effect of leg muscle activity. McHugh DJ, et al. **Am J Phys Med Rehabil** 1997 May-Jun; 76(3):185-7

Central loop of the H reflex. Normal value and use in S1 radiculopathy. Pease WS, et al. **Am J Phys Med Rehabil** 1997 May-Jun;76(3):182-4

A new method for eliciting and studying H-reflexes in the human masseter. Scutter SD, et al. **Arch Oral Biol** 1997 May;42(5):371-6

Soleus H-reflex depression induced by ballistic voluntary arm movement in human. Kasai T, et al. **Brain Res** 1996 Apr 1;714(1-2):125-34

Motor evoked potentials (MEPs) and H-reflexes are not equally sensitive to voluntary motor commands. Kasai T, et al. **Brain Res** 1997 Aug 1;764(1-2):273-6

Effects of exercise and fetal spinal cord implants on the H-reflex in chronically spinalized adult rats. Skinner RD, et al. **Brain Res** 1996 Aug 5;729(1):127-31

Short latency, non-reciprocal group I inhibition is reduced during the stance phase of walking in humans. Stephens MJ, et al. **Brain Res** 1996 Dec 16;743(1-2):24-31

A measure of peripheral nerve stimulation efficacy applicable to H-reflex studies. Boorman GI, et al. **Can J Neurol Sci** 1996 Nov;23(4):264-70

Comparison of peripheral Ia and corticomotoneuronal composite EPSPs in human motoneurons. Jones KE, et al. **Electroencephalogr Clin Neurophysiol** 1996 Oct; 101(5):431-7

Comparison of soleus H-reflex gain from prone to standing in dancers and controls. Mynark RG, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 105(2):135-40

Task-dependence of muscle afferent monosynaptic inputs to human extensor carpi radialis motoneurones. Schmied A, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jun; 105(3):220-34

Electrophysiological studies in children with paralytic poliomyelitis. Bhaskar SH, et al. **Electromyogr Clin Neurophysiol** 1997 Jan-Feb;37(1):33-7

A study on new diagnostic criteria of H reflex. Han TR, et al. **Electromyogr Clin Neurophysiol** 1997 Jun-Jul; 37(4):241-50

Reciprocal inhibition in the forearm during voluntary contraction and thinking about movement. Ikai T, et al. **Electromyogr Clin Neurophysiol** 1996 Jul-Aug; 36(5):295-304

The excitability of the human motor cortex increases during execution and mental imagination of sequential but not repetitive finger movements. Abbruzzese G, et al. **Exp Brain Res** 1996 Oct;111(3):465-72

Evidence for excitation of the human lower limb motoneurones by group II muscle afferents. Marque P, et al. **Exp Brain Res** 1996 May;109(2):357-60

Supraspinal effects on the fractal correlation in human H-reflex. Nozaki D, et al. **Exp Brain Res** 1996 Nov; 112(1):112-8

Movement-induced gain modulation of somatosensory potentials and soleus H-reflexes evoked from the leg. I. Kinaesthetic task demands. Staines WR, et al. **Exp Brain Res** 1997 Jun;115(1):147-55

Movement-induced gain modulation of somatosensory potentials and soleus H-reflexes evoked from the leg. II. Correlation with rate of stretch of extensor muscles of the leg. Staines WR, et al. **Exp Brain Res** 1997 Jun; 115(1):156-64

Sacral cord conduction time of the soleus H-reflex. Ertekin C, et al. **J Clin Neurophysiol** 1996 Jan;13(1):77-83

Modeling of the H-reflex facilitation during ramp and hold contractions. Wilmink RJ, et al. **J Comput Neurosci** 1996 Dec;3(4):337-46

Mechanisms within the spinal cord are involved in the movement-induced attenuation of an H reflex in the dog. Misiaszek JE, et al. **J Neurophysiol** 1996 Nov;76(5):3589-92

Modulation of human soleus H reflex in association with voluntary clenching of the teeth. Miyahara T, et al. **J Neurophysiol** 1996 Sep;76(3):2033-41

Nerve conduction velocity and H-reflex recovery in bipolar illness. el-Mallakh RS, et al. **J Neuropsychiatry Clin Neurosci** 1996 Fall;8(4):412-6

Neurophysiological methods for studies of the motor system in freely moving human subjects. Capaday C. **J Neurosci Methods** 1997 Jun 27;74(2):201-18 (119 ref.)

Assessing changes in presynaptic inhibition of Ia afferents during movement in humans. Pierrot-Deseilligny E. **J Neurosci Methods** 1997 Jun 27;74(2):189-99 (46 ref.)

Conditioning lower limb H-reflexes by transcranial magnetic stimulation of motor cortex reveals preserved innervation in SCI patients. Wolfe DL, et al. **J Neurotrauma** 1996 Jun; 13(6):281-91

The influence of muscle spindle discharge on the human H reflex and the monosynaptic reflex in the cat. Wood SA, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):279-90

The role of glycine in spinal shock. Simpson RK Jr, et al. **J Spinal Cord Med** 1996 Oct;19(4):215-24

The influence of the asymmetric tonic neck reflex on the H-reflex in human temporal muscle. Macaluso GM, et al. **Minerva Stomatol** 1996 Sep;45(9):387-92

Effects of femoral nerve stimulation on the electromyogram and reflex excitability of tibialis anterior and soleus. Meunier S, et al. **Muscle Nerve** 1996 Sep;19(9):1110-5

Phasic modulation of somatosensory potentials during passive movement. Staines WR, et al. **Neuroreport** 1996 Nov 25; 7(18):2971-4

Testing for pre-synaptic and post-synaptic changes in the soleus H reflex pathway following selective muscle vibration in humans. Abbruzzese M, et al.

H-REFLEX

Neurosci Lett 1997 Aug 8;231(2):99–102

Evident difference in the excitability of the motoneuron pool between normal subjects and patients with spasticity assessed by a new method using H-reflex and M-response. Funase K, et al. **Neurosci Lett** 1996 Jan 19;203(2):127–30

Long-lasting potentiation in the secondary somatosensory cortex affects motor control: assessment by H-reflex. Kawakami Y, et al. **Neuroscience** 1996 Oct;74(4):1125–33

Operant conditioning of H-reflex changes synaptic terminals on primate motoneurons. Feng-Chen KC, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9206–11

Effects of transcutaneous electrical nerve stimulation on H-reflex and spinal spasticity. Goulet C, et al. **Scand J Rehabil Med** 1996 Sep;28(3):169–76

[Biomechanical and neurophysiological characteristics of voluntary rhythmic movements in humans] Trembach AB, et al. **Biofizika** 1996 Nov-Dec;41(6):1336–9 (Eng. Abstr.) **(Rus)**

H-Y ANTIGEN

H-Y antigen and homosexuality in men. Blanchard R, et al. **J Theor Biol** 1997 Apr 7;185(3):373–8 (60 ref.)

[The significance of gender incompatibility in donors and recipients and the role of minor histocompatibility antigens in corneal transplantation] Hašková Z, et al. **Cesk Slov Oftalmol** 1997 May;53(2):128–35 (Eng. Abstr.) **(Cze)**

CHEMISTRY

Novel HY peptide antigens presented by HLA-B27. Simmons WA, et al. **J Immunol** 1997 Sep 15;159(6):2750–9

GENETICS

The male-specific histocompatibility antigen, H-Y: a history of transplantation, immune response genes, sex determination and expression cloning. Simpson E, et al. **Annu Rev Immunol** 1997;15:39–61 (96 ref.)

The HLA-A*0201-restricted H-Y antigen contains a posttranslationally modified cysteine that significantly affects T cell recognition. Meadows L, et al. **Immunity** 1997 Mar;6(3):273–81

Why do some females reject males? The molecular basis for male-specific graft rejection. Scott DM, et al. **J Mol Med** 1997 Feb;75(2):103–14 (130 ref.)

Simultaneous immunoselection in vitro for H-Y or H-2D antigen-loss variants of a mouse-derived B cell line. King TR. **Mutat Res** 1996 Sep 13;370(2):91–7

An H-YDb epitope is encoded by a novel mouse Y chromosome gene. Greenfield A, et al. **Nat Genet** 1996 Dec;14(4):474–8

Gene sequence and evolutionary conservation of human SMCY [letter] [corrected; erratum to be published] Kent-First MG, et al. **Nat Genet** 1996 Oct;14(2):128–9

IMMUNOLOGY

Unexpected reaction of anti-H-2d serum with thymic lymphoma cells derived from transgenic B6-H-2b TCR anti-HY/Db mice. Matuszyk J, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2-3):103–7

Fas (CD95)-independent regulation of immune responses by antigen-specific CD4-CD8+ T cells. Teh SJ, et al. **Int Immunol** 1996 May;8(5):675–81

HA-RAS GENES see **GENES, RAS**

HABENULA

ANATOMY & HISTOLOGY

Afferent and efferent connections of the habenula in the rainbow trout (Oncorhynchus mykiss): an indocarbocyanine dye (DiI) study. Yañez J, et al. **J Comp Neurol** 1996 Sep 2;372(4):529–43

CHEMISTRY

Calretinin immunoreactivity in the thalamus of the squirrel monkey. Fortin M, et al. **J Chem Neuroanat** 1996 Apr; 10(2):101–17

METABOLISM

Abnormal c-fos expression in the lateral habenula during dystonic attacks in a hamster model of idiopathic dystonia. Ebert U, et al. **Brain Res** 1996 Jul 22;728(1):125–9

Interactive effects of stimulation of D1 and D2 dopamine receptors on Fos expression in the lateral habenula. Wirtshafter D, et al. **Brain Res** 1997 Mar 7;750(1-2):245–50

Distribution of calretinin-immunoreactive septal axons in the normal and deafferented medial habenula of adult rats. Wilson JA, et al. **J Comp Neurol** 1996 Oct 28; 374(4):593–606

Effect of subtype-specific Ca(2+)-antagonists and Ca(2+)-free media on the field stimulation-evoked release of ATP and [3H]acetylcholine from rat habenula slices. Sperlágh B, et al. **Neurochem Res** 1997 Aug;22(8):967–75

PATHOLOGY

The neurotoxic effects of continuous cocaine and amphetamine in Habenula: implications for the substrates of psychosis. Ellison G, et al. **NIDA Res Monogr** 1996; 163:117–45 (72 ref.)

PHYSIOLOGY

Lesion of the habenular efferent pathway produces anxiety and locomotor hyperactivity in rats: a comparison of the effects of neonatal and adult lesions. Murphy CA, et al. **Behav Brain Res** 1996 Nov;81(1-2):43–52

Demonstration of direct input from the retina to the lateral habenular nucleus in the albino rat. Qu T, et al. **Brain Res** 1996 Feb 19;709(2):251–58

Lateral habenular influence on dorsal raphe neurons. Ferraro G, et al. **Brain Res Bull** 1996;41(1):47–52

Effects of habenular lesions upon two-way active avoidance conditioning in rats. Vale-Martínez A, et al. **Neurobiol Learn Mem** 1997 Jul;68(1):68–74

Mast cell number and maturation in the central nervous system: influence of tissue type, location and exposure to steroid hormones. Zhuang X, et al. **Neuroscience** 1997 Oct; 80(4):1237–45

RADIATION EFFECTS

Qualitative enzyme histochemistry and microanalysis reveals changes in ultrastructural distribution of calcium and calcium-activated ATPases after microwave irradiation of the medial habenula. Kittel A, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):362–8

ULTRASTRUCTURE

Qualitative enzyme histochemistry and microanalysis reveals changes in ultrastructural distribution of calcium and calcium-activated ATPases after microwave irradiation of the medial habenula. Kittel A, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):362–8

HABILITATION see **REHABILITATION**

HABIT DISTURBANCES see **HABITS**

HABITS

The patterns and predictors of smokeless tobacco onset among urban public school teenagers. Hu FB, et al. **Am J Prev Med** 1996 Jan-Feb;12(1):22–8

Etiology of oral habits. Bayardo RE, et al. **ASDC J Dent Child** 1996 Sep-Oct;63(5):350–3

Habits, tics, and stuttering. Prevalence and relation to anxiety and somatic awareness. Woods DW, et al. **Behav Modif** 1996 Apr;20(2):216–25

Developing habits and knowing what habits to develop: a look at the role of virtue in ethics. Loewy EH. **Camb Q Healthc Ethics** 1997 Summer;6(3):347–55

Ritual, habit, and perfectionism: the prevalence and development of compulsive-like behavior in normal young children. Evans DW, et al. **Child Dev** 1997 Feb;68(1):58–68

Dermatophagia: "wolf-biter". Scott MJ Jr, et al. **Cutis** 1997 Jan;59(1):19–20

Effects of habitual physical exercise on physiological age in men aged 20–85 years as estimated using principal component analysis. Nakamura E, et al. **Eur J Appl Physiol** 1996;73(5):410–8

"Golf ball liver": agent orange hepatitis. Leonard C, et al. **Gut** 1997 May;40(5):687–8

Relationship of alcohol use, physical activity and dietary habits with serum carotenoids, retinol and alpha-tocopherol among male Japanese smokers. Kitamura Y, et al. **Int J Epidemiol** 1997 Apr;26(2):307–14

Temporomandibular disorder: efficacy of an oral habit reversal treatment program. Gramling SE, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):245–55

A simplified habit reversal treatment for pica-related chewing. Woods DW, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):257–62

Bowel habits of healthy Australian children aged 0–2 years. Tham EB, et al. **J Paediatr Child Health** 1996 Dec; 32(6):504–7

Family context in pediatric psychology from a transactional perspective: family rituals and stories as examples. Fiese BH. **J Pediatr Psychol** 1997 Apr;22(2):183–96

Habitual sleep patterns and risk for stroke and coronary heart disease: a 10-year follow-up from NHANES I. Qureshi AI, et al. **Neurology** 1997 Apr;48(4):904–11

Water contact observations in Kenyan communities endemic for schistosomiasis: methodology and patterns of behaviour. Fulford AJ, et al. **Parasitology** 1996 Sep;113 (Pt 3):223–41

Parental awareness, habits, and social factors and their relationship to baby bottle tooth decay. Febres C, et al. **Pediatr Dent** 1997 Jan-Feb;19(1):22–7

Habit-specific locus of control scales for drinking, smoking, and eating. Ludtke HA, et al. **Psychol Rep** 1996 Apr; 78(2):363–9

HABITUATION (PSYCHOPHYSIOLOGY)

Advertising wearout in the Transport Accident Commission road safety campaigns. Fry TR. **Accid Anal Prev** 1996 Jan; 28(1):123–9

Vestibular habituation--the effect of cholinergic, adrenergic and histaminergic agents on the process. Mierzwiński J, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):39–42

Beam sensorimotor learning and habituation to motor activity in lurcher mutant mice. Lalonde R, et al. **Behav Brain Res** 1996 Jan;74(1-2):213–6

Repeated exposure to interoceptive cues: does habituation of fear occur in panic disorder patients? A preliminary report. Beck JG, et al. **Behav Res Ther** 1997 Jun;35(6):551–7

Measuring habituation in infants: an approach using regression analysis. Ashmead DH, et al. **Child Dev** 1996 Dec;67(6):2677–90

Fast habituation of the long-latency auditory evoked potential in the awake albino rat. Shucard DW, et al. **Electroencephalogr Clin Neurophysiol** 1996 Jan;100(1):78–84

Influence of novel and habituated testing conditions on cocaine sensitization. Wise RA, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):15–9

Perceptual repetition blindness effects. Hochhaus L, et al. **J Exp Psychol Hum Percept Perform** 1996 Apr;22(2):355–66

A simplified preparation for relating cellular events to behavior: mechanisms contributing to habituation, dishabituation, and sensitization of the Aplysia gill-withdrawal reflex. Cohen TE, et al. **J Neurosci** 1997 Apr 15;17(8):2886–99

A simplified preparation for relating cellular events to behavior: contribution of LE and unidentified siphon sensory neurons to mediation and habituation of the Aplysia gill- and siphon-withdrawal reflex. Frost L, et al. **J Neurosci** 1997 Apr 15;17(8):2900–13

Site specificity of short-term and long-term habituation in the tail-elicited siphon withdrawal reflex of Aplysia. Stopfer M, et al. **J Neurosci** 1996 Aug 15;16(16):4923–32

Reduced brain stem excitability in mitochondrial myopathy: evidence for early detection with blink reflex habituation studies. Koutroumanidis M, et al. **Muscle Nerve** 1996 Dec; 19(12):1586–95

Parametric features of habituation of swim cycle number in the marine mollusc tritonia diomedea. Frost WN, et al. **Neurobiol Learn Mem** 1996 Mar;65(2):125–34

Violation of superposition by the vestibulo-ocular reflex of the goldfish. Dow ER, et al. **Neuroreport** 1996 May 17; 7(7):1305–9

Response habituation in the superficial layers of the guinea-pig superior colliculus in vitro. Platt B, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):153–6

Habituation and the interference of pain with task performance. Crombez G, et al. **Pain** 1997 Apr; 70(2-3):149–54

Individual differences in the hotplate test and effects of habituation on sensitivity to morphine. Plone MA, et al. **Pain** 1996 Aug;66(2-3):265–70

Effect of practice of a throwing skill in one body position on performance of the skill in an alternate position. Mount J. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):723–32

Amphetamine-induced conditioned activity does not result from a failure of rats to habituate to novelty. Ahmed SH, et al. **Psychopharmacology (Berl)** 1996 Feb;123(4):325–32

Quantal duration of auditory memories [see comments] Chew SJ, et al. **Science** 1996 Dec 13;274(5294):1909–14. Comment in: Science 1996 Dec 13;274(5294):1851–3.

Plasticity of a different feather? [comment] Doupe AJ. **Science** 1996 Dec 13;274(5294):1851–3. Comment on: Science 1996 Dec 13;274(5294):1909–14.

Decreased attentional responsivity during sleep deprivation: orienting response latency, amplitude, and habituation. McCarthy ME, et al. **Sleep** 1997 Feb;20(2):115–23

Habituation-like effects cause a significant decrease in response in MRI neuroactivation during visual stimulation. Condon B, et al. **Vision Res** 1997 May;37(9):1243–7

DRUG EFFECTS

Adaptation to repeated restraint stress in rats: failure of ethanol-treated rats to adapt in the stress schedule. Haleem DJ. **Alcohol Alcohol** 1996 Sep;31(5):471–7

Effects of activation and inhibition of cAMP-dependent protein kinase on long-term habituation in the crab Chasmagnathus. Romano A, et al. **Brain Res** 1996 Sep 30; 735(1):131–40

The effect of levodopa on the habituation of the acoustic-palpebral reflex in Parkinson's disease. Rey RD, et al. **Electromyogr Clin Neurophysiol** 1996 Sep; 36(6):357–60

The behavioral effects of habituation and challenge with apomorphine after 6-OHDA lesioning of the nucleus accumbens in rats. Vos PE, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):471–6

The effects of melanocortin peptides and corticosterone on habituation in the great plains toad, Bufo cognatus. Carpenter AM, et al. **Horm Behav** 1996 Sep;30(3):236–43

Angiotensin II (3-8) induces long-term memory improvement in the crab Chasmagnathus. Delorenzi A, et al. **Neurosci Lett** 1997 May 2;226(3):143–6

Effect of apamin, a selective blocker of Ca2+-activated K+-channel, on habituation and passive avoidance responses in rats. Deschaux O, et al. **Neurosci Lett** 1997 May 9;227(1):57–60

Changes of exploratory behaviour and its habituation in rats neonatally treated with monosodium glutamate. Dubovicky M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):565–9

Diazepam attenuation of restraint stress-induced corticosterone levels is enhanced by prior exposure to repeated restraint. Kalman BA, et al. **Psychoneuroendocrinology** 1997 Jul;22(5):349–60

Opioid modulation of attention-related responses: delta-receptors modulate habituation and conditioned

bradycardia. Hernández LL, et al.
Psychopharmacology (Berl) 1997 May;131(2):140–7

GENETICS

Response modulation in the zebra finch neostriatum: relationship to nuclear gene regulation. Stripling R, et al. **J Neurosci** 1997 May 15;17(10):3883–93

PHYSIOLOGY

A study of the normal values and habituation phenomenon of sympathetic skin response. Aramaki S, et al. **Am J Phys Med Rehabil** 1997 Jan–Feb;76(1):2–7

The effects of lesions to thalamic lateral internal medullary lamina and posterior nuclei on learning, memory and habituation in the rat. Savage LM, et al. **Behav Brain Res** 1997 Jan;82(2):133–47

Habituation of ocular following reflex requires corpus callosum for interhemispheric transfer. Zernicki B, et al. **Behav Brain Res** 1997 Mar;84(1–2):269–74

Habituation and iterative enhancement of multiple components of the Tritonia swim response. Brown GD, et al. **Behav Neurosci** 1996 Jun;110(3):478–85

Mechanisms of Pavlovian conditioning: role of protection from habituation in spinal conditioning. Joynes RL, et al. **Behav Neurosci** 1996 Dec;110(6):1375–87

Recovery from habituation in Caenorhabditis elegans is dependent on interstimulus interval and not habituation kinetics. Wicks SR, et al. **Behav Neurosci** 1996 Aug; 110(4):840–4

Effects of tap withdrawal response habituation on other withdrawal behaviors: the localization of habituation in the nematode Caenorhabditis elegans. Wicks SR, et al. **Behav Neurosci** 1997 Apr;111(2):342–53

Habituation and dishabituation of the proleg withdrawal reflex in larvae of the sphinx hawk, Manduca sexta. Wiel DE, et al. **Behav Neurosci** 1996 Oct;110(5):1133–47

Fearful responding to repeated CO2 inhalation: a preliminary investigation. Beck JG, et al. **Behav Res Ther** 1996 Aug; 34(8):609–20

Alterations in brain and plasma concentrations of alpha–melanocyte–stimulating hormone during habituation of prey–catching behavior in toads. Kim Y, et al. **Brain Behav Evol** 1997;49(3):149–61

Effects of activation and inhibition of cAMP–dependent protein kinase on long–term habituation in the crab Chasmagnathus. Romano A, et al. **Brain Res** 1996 Sep 30; 735(1):131–40

The effects of behavioral tasks on the in vitro phosphorylation of intermediate filament subunits of rat hippocampus are mediated by CaMKII and PKA. Schröder N, et al. **Brain Res** 1997 Feb 28;749(2):275–82

Effects of exercise and fetal spinal cord implants on the H–reflex in chronically spinalized adult rats. Skinner RD, et al. **Brain Res** 1996 Aug 5;729(1):127–31

Habituation of the auditory startle reaction is reduced during preparation for execution of a motor task in normal human subjects. Valls–Solé J, et al. **Brain Res** 1997 Mar 14; 751(1):155–9

Fetal habituation: another Pandora's box? Hepper PG. **Dev Med Child Neurol** 1997 Apr;39(4):274–8 (45 ref.)

Single–trial latency variability does not contribute to fast habituation of the long–latency averaged auditory evoked potential in the albino rat. Specht CM, et al. **Electroencephalogr Clin Neurophysiol** 1996 Sep; 100(5):462–71

Absence of vestibular habituation of the vestibulo–ocular reflex in the vertical plane in the cat. Torte MP, et al. **Exp Brain Res** 1997 Aug;116(1):73–82

Characteristics of the autonomic response in the visually evoked reflex in humans. Kolev OI, et al. **Funct Neurol** 1997 Mar–Apr;12(2):83–7

Habituation of P300 and reflex motor (startle blink) responses to repetitive startling stimuli in children. Hirano C, et al. **Int J Psychophysiol** 1996 Apr–May;22(1–2):97–109

Habituation to prolonged airflow obstruction. Rietveld S. **J Asthma** 1997;34(2):133–9

The effects of neonatal jaundice and respiratory complications on learning and habituation in 5– to 11–month–old infants. Weir C, et al. **J Child Psychol Psychiatry** 1997 Feb;38(2):199–206

The integration of antagonistic reflexes revealed by laser ablation of identified neurons determines habituation kinetics of the Caenorhabditis elegans tap withdrawal response. Wicks SR, et al. **J Comp Physiol [A]** 1996 Nov; 179(5):675–85

Neural correlates of habituation of the proleg withdrawal reflex in larvae of the hawk moth, Manduca sexta. Wood ER, et al. **J Comp Physiol [A]** 1997 Jun;180(6):639–57

Modeling neural mechanisms of vertebrate habituation: locus specificity and pattern discrimination. Wang D. **J Comput Neurosci** 1994 Dec;1(4):285–99

Sympathetic skin response in diabetic neuropathy: a prospective clinical and neurophysiological trial on 100 patients. Braune HJ, et al. **J Neurol Sci** 1996 Jun; 138(1–2):120–4

Response and habituation of the human amygdala during visual processing of facial expression. Breiter HC, et al. **Neuron** 1996 Nov;17(5):875–87

Induction of periodic alternating nystagmus in intact goldfish by sinusoidal rotation. Dow ER, et al. **Neuroreport** 1997 Aug 18;8(12):2755–9

Long–term patterns of change in ERPs across repeated measurements. Kinoshita S, et al. **Physiol Behav** 1996 Oct; 60(4):1087–92

Does tolerance develop to the anxiolytic effects of septal lesions? Menard J, et al. **Physiol Behav** 1996 Feb; 59(2):311–18

The effect of dietary fat on salivary habituation and satiation. Myers MD, et al. **Physiol Behav** 1997 Jul;62(1):155–61

Habituation of airpuff–elicited cardiovascular responses in the spontaneously hypertensive rat. Taylor BK, et al. **Physiol Behav** 1996 Sep;60(3):919–25

Delayed habituation of the skin–conductance orienting response correlates with impaired performance on the Wisconsin Card Sorting Task in schizophrenia. Schiffer RA, et al. **Psychiatry Res** 1996 Nov 15;65(2):107–12

Multiple time scales in simple habituation. Staddon JE, et al. **Psychol Rev** 1996 Oct;103(4):720–33

Long–term habituation of brain evoked potential responses and pituitary–adrenal secretion with repeated (placebo) testing. Hartmann A, et al. **Psychoneuroendocrinology** 1995; 20(8):865–77

Prepulse inhibition decreases as startle reactivity habituates. Blumenthal TD. **Psychophysiology** 1997 Jul;34(4):446–50

Allocation of attentional resources during habituation to food cues. Epstein LH, et al. **Psychophysiology** 1997 Jan; 34(1):59–64

Autonomic, electroencephalographic, and myogenic activity accompanying startle and its habituation during mid–childhood. Ornitz EM, et al. **Psychophysiology** 1996 Sep;33(5):507–13

Differences in salivary habituation to palatable foods in bulimia nervosa patients and controls. Wisniewski L, et al. **Psychosom Med** 1997 Jul–Aug;59(4):427–33

[Depression and electrodermal response measures in a habituation experiment. Results from over 400 depressed inpatients] Wolfersdorf M, et al. **Fortschr Neurol Psychiatr** 1996 Mar;64(3):105–9 (Eng. Abstr.) **(Ger)**

HABRONEMA see **SPIRUROIDEA**

HABRONEMIASIS see **SPIRURIDA INFECTIONS**

HABU see **TRIMERESURUS**

HAEM OXYGENASE see **HEME OXYGENASE**

HAEMACCEL see **POLYGELINE**

HAEMATOBIA IRRITANS see **MUSCIDAE**

HAEMOBARTONELLA see **ANAPLASMATACEAE**

HAEMOBARTONELLOSIS see **ANAPLASMATACEAE INFECTIONS**

HAEMONCHIASIS

GENETICS

Genetic control of resistance to helminths in sheep. Windon RG. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):245–54 (39 ref.)

IMMUNOLOGY

Genetic control of resistance to helminths in sheep. Windon RG. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):245–54 (39 ref.)

PHYSIOPATHOLOGY

Response of Dorper and red Maasai lambs to trickle Haemonchus contortus infections. Mugambi JM, et al. **Res Vet Sci** 1996 Nov;61(3):218–21

VETERINARY

Duration of the persistent activity of moxidectin against Haemonchus contortus in sheep. Abbott KA, et al. **Aust Vet J** 1995 Nov;72(11):408–10

The immunogenetics of resistance to Trichostrongylus colubriformis and Haemonchus contortus parasites in sheep [see comments] Hohenhaus MA, et al. **Br Vet J** 1995 Mar–Apr;151(2):119–40 (65 ref.). Comment in: Br Vet J 1995 Mar–Apr;151(2):111–3.

Cortisol as an indicator of severity of parasitic infections of Haemonchus contortus in lambs (Ovis aries). Fleming MW. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):41–4

The effect of infection with the abomasal nematode, Haemonchus contortus, on the avoidance behaviour of sheep in a motivational–choice test. Adams DB, et al. **Int J Parasitol** 1997 Jun;27(6):665–73

Are the 26–kDa somatic and the 24–kDa excretory/secretory antigens of Haemonchus contortus one and the same? Cornelissen AW. **Int J Parasitol** 1996 Oct;26(10):1131 (9 ref.)

Developmentally regulated expression of a Haemonchus contortus surface antigen. Raleigh JM, et al. **Int J Parasitol** 1996 Jun;26(6):673–5

The effects of closantel treatment on the ultrastructure of Haemonchus contortus. Rothwell JT, et al. **Int J Parasitol** 1996 Jan;26(1):49–57

Effects of adult and larval Haemonchus contortus on abomasal secretion. Simpson HV, et al. **Int J Parasitol** 1997 Jul;27(7):825–31

The effect of level of feed intake on the pharmacokinetic disposition and efficacy of ivermectin in sheep. Ali DN, et al. **J Vet Pharmacol Ther** 1996 Apr;19(2):89–94

Reduced egg counts in mixed infections with Oestrus ovis and Haemonchus contortus: influence of eosinophils? Dorchies P, et al. **Parasitol Res** 1997;83(7):727–30

Identification of Haemonchus species in domestic ruminants based on morphometrics of spicules. Jacquiet P, et al. **Parasitol Res** 1997;83(1):82–6

Production of a monoclonal antibody specific for ovine immunoglobulin E and its application to monitor serum IgE responses to Haemonchus contortus infection. Kooyman FN, et al. **Parasitology** 1997 Apr;114 (Pt 4):395–406

Protective immunity to the blood–feeding nematode Haemonchus contortus induced by vaccination with parasite low molecular weight antigens. Schallig HD, et al. **Parasitology** 1997 Mar;114 (Pt 3):293–9

Comparative efficacies of closantel, ivermectin, oxfendazole, thiophanate and levamisole against thiabendazole resistant Haemonchus contortus in sheep. Waruiru RM, et al. **Trop Anim Health Prod** 1996 Aug;28(3):216–20

Anthelmintic resistance of trichostrongylids in sheep in the highveld of Zimbabwe. Boersema JH, et al. **Vet Parasitol** 1997 Mar;68(4):383–8

Anthelmintic resistance in India. Gill BS. **Vet Parasitol** 1996 May;63(1–2):173–6

Adaptation to arid environment: Haemonchus longistipes in dromedaries of Saharo–Sahelian areas of Mauritania. Jacquiet P, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):193–204

Genetic resistance of three genotypes of goats to experimental infection with Haemonchus contortus. Pralomkarn W, et al. **Vet Parasitol** 1997 Jan;68(1–2):79–90

Peri–parturient rise in faecal strongyle egg counts of different genotypes of sheep in North Sumatra, Indonesia. Romjali E, et al. **Vet Parasitol** 1997 Jan;68(1–2):191–6

Comparison of resistance of four genotypes of rams to experimental infection with Haemonchus contortus. Romjali E, et al. **Vet Parasitol** 1996 Oct 15;65(1–2):127–37

Bovine humoral immune responses to Haemonchus placei excretory secretory antigens. Schallig HD, et al. **Vet Parasitol** 1996 Oct 25;65(3–4):289–96

How long before resistance makes it impossible to control some field strains of Haemonchus contortus in South Africa with any of the modern anthelmintics? van Wyk JA, et al. **Vet Parasitol** 1997 Jun;70(1–3):111–22

Occurrence of anthelmintic resistant nematodes on sheep farms in England and goat farms in England and Wales. Hong C, et al. **Vet Rec** 1996 Jul 27;139(4):83–6

Occurrence of resistance to anthelmintics in sheep in Paraná State, Brazil. Soccol VT, et al. **Vet Rec** 1996 Oct 26; 139(17):421–2

The seasonal prevalence of Haemonchus species in Red Sokoto (Maradi) goats in Nigeria. Nwosu CO, et al. **Vet Res Commun** 1996;20(4):367–70

HAEMONCHUS

The effect of infection with the abomasal nematode, Haemonchus contortus, on the avoidance behaviour of sheep in a motivational–choice test. Adams DB, et al. **Int J Parasitol** 1997 Jun;27(6):665–73

Radiolabelled adult Haemonchus contortus obtained from eggs voided in the faeces of a sheep injected with 59Fe. Vanwyk JA, et al. **Onderstepoort J Vet Res** 1996 Sep; 63(3):263–4

Development and survival of Haemonchus contortus and Trichostrongylus sp. on pasture in Cameroon. Ndamukong KJ, et al. **Trop Anim Health Prod** 1996 Aug;28(3):193–8

CHEMISTRY

Haemonchus contortus glycoproteins contain N–linked oligosaccharides with novel highly fucosylated core structures. Haslam SM, et al. **J Biol Chem** 1996 Nov 29; 271(48):30561–70

CLASSIFICATION

Identification of Haemonchus species in domestic ruminants based on morphometrics of spicules. Jacquiet P, et al. **Parasitol Res** 1997;83(1):82–6

The seasonal prevalence of Haemonchus species in Red Sokoto (Maradi) goats in Nigeria. Nwosu CO, et al. **Vet Res Commun** 1996;20(4):367–70

DRUG EFFECTS

In vitro effects of anthelmintics on the histochemistry of Haemonchus contortus and Trichuris globulosa. Kaur M, et al. **Appl Parasitol** 1996 Dec;37(4):302–11

Characterization of an acetylcholine receptor gene of Haemonchus contortus in relation to levamisole resistance. Hoekstra R, et al. **Mol Biochem Parasitol** 1997 Feb; 84(2):179–87

Use of free living stages to study the effects of thiabendazole, levamisole, pyrantel and ivermectin on the fine structure of Haemonchus contortus and Heligmosomoides polygyrus. Beugnet F, et al. **Vet Parasitol** 1996 May;63(1–2):83–94

Anthelmintic resistance of trichostrongylids in sheep in the highveld of Zimbabwe. Boersema JH, et al.

HAEMONCHUS

Vet Parasitol 1997 Mar;68(4):383–8

How long before resistance makes it impossible to control some field strains of Haemonchus contortus in South Africa with any of the modern anthelmintics? van Wyk JA, et al. **Vet Parasitol** 1997 Jun;70(1–3):111–22

ENZYMOLOGY

Cloning and characterization of a microsomal aminopeptidase from the intestine of the nematode Haemonchus contortus. Smith TS, et al. **Biochim Biophys Acta** 1997 Apr 4; 1338(2):295–306

Haemonchus contortus: inter- and intrageographic isolate heterogeneity of proteases in adult worm excretory–secretory products. Karanu FN, et al. **Exp Parasitol** 1997 May;86(1):89–91

Cytochrome P450 monooxygenase activity in Haemonchus contortus (Nematoda). Kotze AC. **Int J Parasitol** 1997 Jan; 27(1):33–40

Molecular cloning and characterisation of a putative aspartate proteinase associated with a gut membrane protein complex from adult Haemonchus contortus. Longbottom D, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):63–72

Proteolytic enzymes of infective larvae and adults of Trichostrongylus colubriformis and Haemonchus contortus. Hadas E, et al. **Parasitol Res** 1997;83(1):47–51

GENETICS

Rapid cloning of PCR-derived RAPD probes. Comes AM, et al. **Biotechniques** 1997 Aug;23(2):210–2

Characterization of an acetylcholine receptor gene of Haemonchus contortus in relation to levamisole resistance. Hoekstra R, et al. **Mol Biochem Parasitol** 1997 Feb; 84(2):179–87

Microsatellites of the parasitic nematode Haemonchus contortus: polymorphism and linkage with a direct repeat. Hoekstra R, et al. **Mol Biochem Parasitol** 1997 Oct; 89(1):97–107

Molecular cloning and characterisation of a putative aspartate proteinase associated with a gut membrane protein complex from adult Haemonchus contortus. Longbottom D, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):63–72

Molecular cloning and characterisation of a developmentally regulated putative metallopeptidase present in a host protective extract of Haemonchus contortus. Redmond DL, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):77–87

Molecular characterization and expression of two putative protective excretory secretory proteins of Haemonchus contortus. Schallig HD, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):203–13

GROWTH & DEVELOPMENT

Effects of adult and larval Haemonchus contortus on abomasal secretion. Simpson HV, et al. **Int J Parasitol** 1997 Jul;27(7):825–31

Cryopreservation of infective larvae of Haemonchus contortus. Liébano-Hernández E, et al. **Rev Latinoam Microbiol** 1996 Apr–Jun;38(2):111–4

IMMUNOLOGY

The immunogenetics of resistance to Trichostrongylus colubriformis and Haemonchus contortus parasites in sheep [see comments] Hohenhaus MA, et al. **Br Vet J** 1995 Mar–Apr;151(2):119–40 (65 ref.). Comment in: Br Vet J 1995 Mar–Apr;151(2):111–3.

The PCR typing of MHC-DRB genes in the sheep using primers for an intronic microsatellite: application to nematode parasite resistance. Outteridge PM, et al. **Immunol Cell Biol** 1996 Aug;74(4):330–6

Are the 26-kDa somatic and the 24-kDa excretory/secretory antigens of Haemonchus contortus one and the same? Cornelissen AW. **Int J Parasitol** 1996 Oct;26(10):1131 (9 ref.)

Reduced egg counts in mixed infections with Oestrus ovis and Haemonchus contortus: influence of eosinophils? Dorchies P, et al. **Parasitol Res** 1997;83(7):727–30

Carbohydrate epitopes on Haemonchus contortus antigens. Schallig HD, et al. **Parasitol Res** 1996;82(1):38–42

Protective immunity to the blood-feeding nematode Haemonchus contortus induced by vaccination with parasite low molecular weight antigens. Schallig HD, et al. **Parasitology** 1997 Mar;114 (Pt 3):293–9

Bovine humoral immune responses to Haemonchus placei excretory secretory antigens. Schallig HD, et al. **Vet Parasitol** 1996 Oct 25;65(3–4):289–96

ISOLATION & PURIFICATION

Reduction of Haemonchus contortus infective larvae by Harposporium anguillulae in sheep faecal cultures. Charles TP, et al. **Int J Parasitol** 1996 May;26(5):509–10

Digital image analysis and identification of eggs from bovine parasitic nematodes. Sommer C. **J Helminthol** 1996 Jun; 70(2):143–51

METABOLISM

Haemonchus contortus: the uptake and metabolism of closantel. Rothwell J, et al. **Int J Parasitol** 1997 Mar; 27(3):313–9

Influence of organic acid excretion on cuticle pH and drug absorption by Haemonchus contortus. Sims SM, et al. **Int J Parasitol** 1996 Jan;26(1):25–35

Stage-specific expression of surface molecules by the larval stages of Haemonchus contortus. Raleigh JM, et al. **Parasite Immunol** 1996 Mar;18(3):125–32

The role of the sheath in resistance of Haemonchus contortus infective-stage larvae to proteolytic digestion. Fetterer RH, et al. **Vet Parasitol** 1996 Sep 16;64(4):267–76

The in vitro uptake and incorporation of hemoglobin by adult Haemonchus-contortus. Fetterer RH, et al. **Vet Parasitol** 1997 Apr;69(1–2):77–87

MICROBIOLOGY

Reduction of Haemonchus contortus infective larvae by Harposporium anguillulae in sheep faecal cultures. Charles TP, et al. **Int J Parasitol** 1996 May;26(5):509–10

PHYSIOLOGY

Cortisol as an indicator of severity of parasitic infections of Haemonchus contortus in lambs (Ovis aries). Fleming MW. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):41–4

Adaptation to arid environment: Haemonchus longistipes in dromedaries of Saharo-Sahelian areas of Mauritania. Jacquiet P, et al. **Vet Parasitol** 1996 Nov 15;66(3–4):193–204

ULTRASTRUCTURE

The effects of closantel treatment on the ultrastructure of Haemonchus contortus. Rothwell JT, et al. **Int J Parasitol** 1996 Jan;26(1):49–57

HAEMOPHILUS

Changes in the incidences of the different serovars of Haemophilus paragallinarum in South Africa: a possible explanation for vaccination failures. Bragg RR, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):217–26

CLASSIFICATION

Genomic fingerprinting of Haemophilus somnus by a combination of PCR methods. Appuhamy S, et al. **J Clin Microbiol** 1997 Jan;35(1):288–91

Genetic identification of cryptic genospecies of Haemophilus causing urogenital and neonatal infections by PCR using specific primers targeting genes coding for 16S rRNA. Quentin R, et al. **J Clin Microbiol** 1996 Jun;34(6):1380–5

Rapid identification of Actinobacillus actinomycetemcomitans, Haemophilus aphrophilus, and Haemophilus paraphrophilus by restriction enzyme analysis of PCR-amplified 16S rRNA genes. Riggio MP, et al. **J Clin Microbiol** 1997 Jun;35(6):1630–2

Endocarditis caused by Haemophilus parainfluenzae identified by 16S ribosomal RNA sequencing. Das I, et al. **J Clin Pathol** 1997 Jan;50(1):72–4

ENZYMOLOGY

Purification and kinetic characterization of Haemophilus parasuis malate dehydrogenase. Wise DJ, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):176–83

Neuraminidase (sialidase) activity of Haemophilus parasuis. Lichtensteiger CA, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):269–74

GENETICS

Novel FNR homologues identified in four representative oral facultative anaerobes: Capnocytophaga ochracea, Capnocytophaga sputigena, Haemophilus aphrophilus, and Actinobacillus actinomycetemcomitans. Hattori T, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):213–20

Tetrameric repeat units associated with virulence factor phase var..tion in Haemophilus also occur in Neisseria spp. and Moraxella catarrhalis. Peak IR, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):109–14

Transformation of a virulence associated gene of Haemophilus somnus into a strain lacking the gene. Sanders JD, et al. **FEMS Microbiol Lett** 1997 Sep 15;154(2):251–8

Cloning and characterization of bacteriophage-like DNA from Haemophilus somnus homologous to phages P2 and HP1. Pontarollo RA, et al. **J Bacteriol** 1997 Mar; 179(6):1872–9

Genetic identification of cryptic genospecies of Haemophilus causing urogenital and neonatal infections by PCR using specific primers targeting genes coding for 16S rRNA. Quentin R, et al. **J Clin Microbiol** 1996 Jun;34(6):1380–5

Profiles of fragments after pulsed-field gel electrophoresis of cleaved genomic DNA from strains of Taylorella equigenitalis isolated from horses in Norway. Matsuda M, et al. **Microbiol Res** 1997 Jul;152(2):217–20

Analysis of Haemophilus parasuis by multilocus enzyme electrophoresis. Blackall PJ, et al. **Vet Microbiol** 1997 May; 56(1–2):125–34

Transposon mutagenesis of Haemophilus paragallinarum with Tn916. Gonzales AE, et al. **Vet Microbiol** 1996 Feb; 48(3–4):283–91

GROWTH & DEVELOPMENT

Effects of growth conditions and incubation times on the expression of antigens of Haemophilus paragallinarum which are detected by monoclonal antibodies. Bragg RR, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):57–63

IMMUNOLOGY

Detection of strain-specific antigenic epitopes on the lipo-oligosaccharide of Haemophilus parasuis by use of monoclonal and polyclonal antibodies. Zucker BA, et al. **Am J Vet Res** 1996 Jan;57(1):63–7

Bovine IgG2a antibodies to Haemophilus somnus and allotype expression. Corbeil LB, et al. **Can J Vet Res** 1997 Jul;61(3):207–13

Role of IgA, IgG, and IgM antibodies against Haemophilus parainfluenzae antigens in IgA nephropathy. Suzuki S, et al. **Clin Nephrol** 1996 Nov;46(5):287–95

Effects of growth conditions and incubation times on the expression of antigens of Haemophilus paragallinarum which are detected by monoclonal antibodies. Bragg RR, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):57–63

Passively acquired anti-tetanus and anti-Haemophilus antibodies and the response to Haemophilus influenzae type b–tetanus toxoid conjugate vaccine in infancy. Kurikka S, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):530–5

Production and characterization of monoclonal antibodies against Taylorella equigenitalis. Gradinaru DA, et al. **Vet Res** 1997;28(1):65–76

A comparative study of the major outer membrane proteins of the avian haemophili and Pasteurella gallinarum. Hartmann L, et al. **Zentralbl Bakteriol** 1996 Jun; 284(1):47–51

ISOLATION & PURIFICATION

The role of adenoids in nasopharyngeal colonization with nontypeable Haemophilus influenzae. Kurono Y, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:147–9

Haemophilus somnus--unlikely to be a causative microbiological agent in bovine clinical mastitis in Denmark. Wedderkopp A. **Acta Vet Scand** 1997;38(2):193–5

Development and application of DNA probes and PCR tests for Haemophilus paragallinarum. Chen X, et al. **Avian Dis** 1996 Apr–Jun;40(2):398–407

Interaction of Haemophilus parasuis with nasal and tracheal mucosa following intranasal inoculation of cesarean derived colostrum deprived (CDCD) swine. Vahle JL, et al. **Can J Vet Res** 1997 Jul;61(3):200–6

Association of Pasteurella haemolytica, Pasteurella multocida and Haemophilus somnus with pneumonia in calves. Haziroglu R, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Apr;104(4):150–3

Immunohistochemical detection of Haemophilus parasuis serovar 5 in formalin-fixed, paraffin-embedded tissues of experimentally infected swine. Segalés J, et al. **J Vet Diagn Invest** 1997 Jul;9(3):237–43

Case records of the Children's Hospital Medical Center of Akron: a 29-month-old boy with drooling [clinical conference] Knapp JF. **Pediatr Emerg Care** 1996 Oct; 12(5):378–81

Swabbing protocols in screening for contagious equine metritis. Watson ED. **Vet Rec** 1997 Mar 15;140(11):268–71

[Identification and diagnosis of Taylorella equigenitalis by a DNA amplification method (PCR)] Miserez R, et al. **Schweiz Arch Tierheilkd** 1996;138(3):115–20 (Eng. Abstr.) **(Ger)**

PATHOGENICITY

Tetrameric repeat units associated with virulence factor phase variation in Haemophilus also occur in Neisseria spp. and Moraxella catarrhalis. Peak IR, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):109–14

Pathogenicity of Haemophilus parasuis serovars 4 and 5 in contact-exposed pigs. Amano H, et al. **J Vet Med Sci** 1996 Jun;58(6):559–61

Effects on endotoxin pathogenicity in pigs with acute septicemia of Haemophilus parasuis infection. Amano H, et al. **J Vet Med Sci** 1997 Jun;59(6):451–5

Characterization and pathogenicity of Haemophilus paragallinarum serotype C in local chickens of Taiwan. Lin JA, et al. **J Vet Med Sci** 1996 Oct;58(10):1007–9

PHYSIOLOGY

Modulation of phagocytic function of bovine mononuclear phagocytes by Haemophilus somnus. Gomis SM, et al. **Microb Pathog** 1997 Jan;22(1):13–21

HAEMOPHILUS DUCREYI

see related

CHANCROID

Laboratory diagnosis of chancroid using species-specific primers from Haemophilus ducreyi groEL and the polymerase chain reaction. Parsons LM, et al. **Diagn Microbiol Infect Dis** 1995 Nov;23(3):89–98

CHEMISTRY

The major outer membrane protein of Haemophilus ducreyi consists of two OmpA homologs. Klesney-Tait J, et al. **J Bacteriol** 1997 Mar;179(5):1764–73

CLASSIFICATION

Ribosomal DNA typing of Haemophilus ducreyi strains: proposal for a novel typing scheme. Pillay A, et al. **J Clin Microbiol** 1996 Oct;34(10):2613–5

DRUG EFFECTS

Comparison of the Etest with agar dilution for antimicrobial susceptibility testing of Haemophilus ducreyi. Lagergård T, et al. **J Antimicrob Chemother** 1996 Nov;38(5):849–52

GENETICS

Distribution, cloning, characterisation and mutagenesis of sodC, the gene encoding copper/zinc superoxide dismutase, a potential determinant of virulence, in Haemophilus ducreyi. Langford PR, et al.
FEMS Immunol Med Microbiol 1997 Apr;17(4):235–42

Cloning and sequencing of a Haemophilus ducreyi fur homolog. Carson SD, et al. **Gene** 1996 Oct 17; 176(1–2):125–9

Cloning and sequencing of the gene encoding the Cu,Zn-superoxide dismutase of Haemophilus ducreyi. Stevens MK, et al. **Gene** 1996 Dec 12;183(1–2):35–40

Identification of tandem genes involved in lipooligosaccharide expression by Haemophilus ducreyi. Stevens MK, et al. **Infect Immun** 1997 Feb;65(2):651–60

Characterization of a transposon Tn916–generated mutant of Haemophilus ducreyi 35000 defective in lipooligosaccharide biosynthesis. Gibson BW, et al.
J Bacteriol 1997 Aug;179(16):5062–71

Organization of the Haemophilus ducreyi 35000 chromosome. Hobbs MM, et al. **Microbiology** 1996 Sep;142 (Pt 9):2587–94

An isogenic haemolysin–deficient mutant of Haemophilus ducreyi lacks the ability to produce cytopathic effects on human foreskin fibroblasts. Palmer KL, et al.
Mol Microbiol 1996 Jul;21(1):13–9

Cloning and characterization of the genes encoding the hemolysin of Haemophilus ducreyi. Palmer KL, et al.
Mol Microbiol 1995 Dec;18(5):821–30

A diffusible cytotoxin of Haemophilus ducreyi. Cope LD, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4056–61

IMMUNOLOGY

Structurally defined epitopes of Haemophilus ducreyi lipooligosaccharides recognized by monoclonal antibodies. Ahmed HJ, et al. **Infect Immun** 1997 Aug;65(8):3151–8

Comparison of enzyme immunoassays for antibodies to Haemophilus ducreyi in a community outbreak of chancroid in the United States. Chen CY, et al.
J Infect Dis 1997 Jun;175(6):1390–5

Antibody to Haemophilus ducreyi among trucking company workers in Kenya. Rakwar J, et al. **Sex Transm Dis** 1997 May;24(5):267–71

ISOLATION & PURIFICATION

A prospective clinical and bacteriologic study of inguinal buboes in Thai men. Viravan C, et al. **Clin Infect Dis** 1996 Feb;22(2):233–9

A history of the detection of Haemophilus ducreyi, 1889–1979. Hammond GW. **Sex Transm Dis** 1996 Mar–Apr; 23(2):93–6

METABOLISM

Characterization of a novel lipoprotein expressed by Haemophilus ducreyi. Hiltke TJ, et al. **Infect Immun** 1996 Dec;64(12):5047–52

Characterization of a transposon Tn916–generated mutant of Haemophilus ducreyi 35000 defective in lipooligosaccharide biosynthesis. Gibson BW, et al.
J Bacteriol 1997 Aug;179(16):5062–71

Attachment of Haemophilus ducreyi to human foreskin fibroblasts involves LOS and fibronectin. Alfa MJ, et al. **Microb Pathog** 1997 Jan;22(1):39–46

PATHOGENICITY

Distribution, cloning, characterisation and mutagenesis of sodC, the gene encoding copper/zinc superoxide dismutase, a potential determinant of virulence, in Haemophilus ducreyi. Langford PR, et al.
FEMS Immunol Med Microbiol 1997 Apr;17(4):235–42

Purification and identification of Haemophilus ducreyi cytotoxin by use of a neutralizing monoclonal antibody. Purvén M, et al. **Infect Immun** 1997 Aug;65(8):3496–9

An isogenic haemolysin–deficient mutant of Haemophilus ducreyi lacks the ability to produce cytopathic effects on human foreskin fibroblasts. Palmer KL, et al.
Mol Microbiol 1996 Jul;21(1):13–9

Iron and virulence of Haemophilus ducreyi in a primate model. Sturm AW. **Sex Transm Dis** 1997 Feb;24(2):64–8

PHYSIOLOGY

Alterations in levels of DnaK and GroEL result in diminished survival and adherence of stressed Haemophilus ducreyi. Parsons LM, et al. **Infect Immun** 1997 Jun;65(6):2413–9

HAEMOPHILUS INFECTIONS

Biliary tract infection and bacteraemia associated with Haemophilus influenzae. Shoufanie A, et al. **Eur J Surg** 1996 Sep;162(9):743–5

Evaluation of immunogenicity and tolerance of single dose haemophilus influenzae type B (PRP–T) vaccine. Acharya D, et al. **Indian Pediatr** 1995 Oct;32(10):1077–82

New murine model of bronchopneumonia due to cell–bound Haemophilus influenzae. Miyazaki S, et al. **J Infect Dis** 1997 Jan;175(1):205–9

Changes in the incidences of the different serovars of Haemophilus paragallinarum in South Africa: a possible explanation for vaccination failures. Bragg RR, et al.
Onderstepoort J Vet Res 1996 Sep;63(3):217–26

Persistence of antibody responses to Haemophilus influenzae type b polysaccharide conjugate vaccine in children with vertically acquired human immunodeficiency virus infection. Gibb D, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1097–101

Role of nontypeable Haemophilus influenzae in pediatric respiratory tract infections. Klein JO.
Pediatr Infect Dis J 1997 Feb;16(2 Suppl):S5–8 (27 ref.)

Haemophilus influenzae: it's role in pediatric infections. Introduction. Klein JO. **Pediatr Infect Dis J** 1997 Feb;16(2 Suppl):S3–4

Bilateral empyema and pneumonia due to chloramphenicol–resistant Haemophilus influenzae type b. Chang AB, et al. **Pediatr Pulmonol** 1996 Sep;22(3):207–9

Haemophilus influenzae infections in adults: a pathogen in search of respect. Strausbaugh LJ. **Postgrad Med** 1997 Feb; 101(2):191–2, 195–6, 199–200 (19 ref.)

Polymicrobial brain abscess involving Haemophilus paraphrophilus and Actinomyces odontolyticus. Simpson AJ, et al. **Postgrad Med J** 1996 May;72(847):297–306

[A clinical features of acute respiratory infection with Haemophilus influenzae by transtracheal aspiration] Tsujimoto M, et al. **Kansenshogaku Zasshi** 1996 Aug; 70(8):808–14 (Eng. Abstr.) **(Jpn)**

[Endocarditis due to Haemophilus influenzae type B: a new case and review of literature] Otero Reigada MC, et al. **An Esp Pediatr** 1997 May;46(5):508–10 (25 ref.) **(Spa)**

[Biliary infection and bacteremia caused by Haemophilus influenzae (letter)] Garcés Garmendia MA, et al.
An Med Interna 1996 Nov;13(11):566–7 **(Spa)**

COMPLICATIONS

Rhabdomyolysis and acute renal failure associated with meningitis and sepsis due to Haemophilus influenzae: case report [letter; comment] Benedetti P, et al.
Clin Infect Dis 1997 Mar;24(3):533–4. Comment on: Clin Infect Dis 1996 Apr;22(4):642–9.

Intramedullary abscess of the spinal cord in a patient with a right–to–left shunt: case report. David C, et al.
Clin Infect Dis 1997 Jan;24(1):89–90

Hemophilus influenzae septic arthritis and pneumonia in an adult as the first presentation of multiple myeloma. Bhatnagar SK, et al. **Conn Med** 1996 Nov;60(11):643–7

Haemophilus influenzae sepsis resulting from pneumonia. Marinella MA. **Heart Lung** 1997 Jan–Feb;26(1):80–2

Septic arthritis due to Haemophilus parainfluenzae in a patients infected with the human immunodeficiency virus type 1 [letter] Blanche P, et al. **Rev Rhum Engl Ed** 1996 May;63(5):380

DIAGNOSIS

Bacteriological evaluation of 194 adult patients with acute frontal sinusitis and findings of simultaneous maxillary sinusitis. Antila J, et al.
Acta Otolaryngol Suppl (Stockh) 1997;529:162–4

Haemophilus parainfluenzae infective endocarditis. Lee P, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):761–2 (12 ref.)

Case reports: invasive Haemophilus influenzae type a infections. Molougney B, et al. **Can Commun Dis Rep** 1997 Jun 1;23(11):82–4 **(Eng, Fre)**

Bacterial tracheitis: a case report. Wong KS, et al.
Chang Keng I Hsueh 1996 Sep;19(3):286–90

Intramedullary abscess of the spinal cord in a patient with a right–to–left shunt: case report. David C, et al.
Clin Infect Dis 1997 Jan;24(1):89–90

Fever and anorexia 10 years after major trauma. Ruiz W, et al. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):32, 34

Detection of Haemophilus influenzae and Streptococcus pneumoniae DNA in blood culture by a single PCR assay. Hassan–King M, et al. **J Clin Microbiol** 1996 Aug; 34(8):2030–2

Case records of the Children's Hospital Medical Center of Akron: a 29–month–old boy with drooling [clinical conference] Knapp JF. **Pediatr Emerg Care** 1996 Oct; 12(5):378–81

[Usefulness of the rapid diagnosis of Haemophilus influenzae in respiratory samples (letter)] Colomina J, et al.
Arch Bronconeumol 1996 Dec;32(10):550 **(Spa)**

DRUG THERAPY

Serotypes and antimicrobial resistance in Haemophilus influenzae in a hospital practice. Tee NW, et al.
Ann Acad Med Singapore 1996 Mar;25(2):184–7

A 1994–95 survey of Haemophilus influenzae susceptibility to ten orally administered agents. A 187 clinical laboratory center sample in the United States. Jones RN, et al.
Diagn Microbiol Infect Dis 1997 Mar;27(3):75–83

Long–term persistence of ciprofloxacin–resistant Haemophilus influenzae in patients with cystic fibrosis. Campos J, et al. **J Infect Dis** 1996 Dec;174(6):1345–7

Spectrum of Haemophilus influenzae type b disease in children at a university hospital in Riyadh, Saudi Arabia. Abdullah AM, et al. **J Trop Pediatr** 1997 Feb;43(1):10–2

Causative pathogens, antibiotic resistance and therapeutic considerations in acute otitis media. Block SL.
Pediatr Infect Dis J 1997 Apr;16(4):449–56 (39 ref.)

Incidence of antibiotic–resistant Streptococcus pneumoniae and beta–lactamase–positive Haemophilus influenzae in clinical isolates from patients with otitis media. McLinn S, et al. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S3–9

Conjunctivitis in infants and children. Wald ER.
Pediatr Infect Dis J 1997 Feb;16(2 Suppl):S17–20

ECONOMICS

Cost–effectiveness evaluation of vaccination against Haemophilus influenzae invasive diseases in France. Livartowski A, et al. **Vaccine** 1996 Apr;14(6):495–500

EPIDEMIOLOGY

Epidemiology of nasopharyngeal colonization with nontypeable Haemophilus influenzae in the first two years of life. Faden H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:128–9

Social deprivation and bacterial meningitis in north east Thames region: three year study using small area statistics. Jones IR, et al. **BMJ** 1997 Mar 15;314(7083):794–5

Invasive disease due to Haemophilus influenzae serotype f: clinical and epidemiologic characteristics in the H. influenzae serotype b vaccine era. The Haemophilus influenzae Study Group [see comments] Urwin G, et al. **Clin Infect Dis** 1996 Jun;22(6):1069–76. Comment in: Clin Infect Dis 1996 Jun;22(6):1077–8.

Invasive infections due to Haemophilus influenzae serotype f (Hif)—is Hif an emerging pathogen? [editorial; comment] Ward JI. **Clin Infect Dis** 1996 Jun;22(6):1077–8. Comment on: Clin Infect Dis 1996 Jun;22(6):1069–76.

The decline of Haemophilus influenzae type b disease in Australia. Herceg A. **Commun Dis Intell** 1997 Jun 26; 21(13):173–6

Surveillance of invasive Haemophilus influenzae infections in children. **Commun Dis Rep CDR Wkly** 1997 Mar 28; 7(13):109

Invasive Haemophilus influenzae in the Republic of Ireland. Moloney AC, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):377–80

Incidence of invasive Haemophilus influenzae type b disease in Italian children. Tozzi AE, et al. **Eur J Epidemiol** 1997 Jan;13(1):73–7

Risk factors for invasive Haemophilus influenzae disease among children 2–16 years of age in the vaccine era, Switzerland 1991–1993. The Swiss H. Influenzae Study Group. Mühlemann K, et al. **Int J Epidemiol** 1996 Dec; 25(6):1280–5

Protective effect of breastfeeding on invasive Haemophilus influenzae infection: a case–control study in Swedish preschool children. Silfverdal SA, et al.
Int J Epidemiol 1997 Apr;26(2):443–50

Invasive Haemophilus influenzae diseases and purulent meningitis in Taiwan. Wang CH, et al.
J Formos Med Assoc 1996 Aug;95(8):599–604

Spectrum of Haemophilus influenzae type b disease in children at a university hospital in Riyadh, Saudi Arabia. Abdullah AM, et al. **J Trop Pediatr** 1997 Feb;43(1):10–2

From the Centers for Disease Control and Prevention. Progress toward elimination of Haemophilus influenzae type b disease among infants and children—United States, 1987–1995. **JAMA** 1996 Nov 20;276(19):1542, 1544

From the Centers for Disease Control and Prevention. Antibiotic resistance among nasopharyngeal isolates of Streptococcus pneumoniae and Haemophilus influenzae—Bangui, 1995. **JAMA** 1997 Feb 26;277(8):621

Haemophilus influenzae type b vaccination [letter; comment] Domínguez A, et al. **Lancet** 1997 Jul 19;350(9072):222. Comment on: Lancet 1997 Apr 26;349(9060):1186–7.

Epidemiology of antibiotic resistance in Haemophilus influenzae. Goldstein FW, et al. **Microb Drug Resist** 1995 Summer;1(2):131–5 (35 ref.)

Antibiotic resistance among nasopharyngeal isolates of Streptococcus pneumoniae and Haemophilus influenzae—Bangui, Central African Republic, 1995 [published erratum appears in MMWR Morb Mortal Wkly Rep 1997 Apr 18;46(15):335]
MMWR Morb Mortal Wkly Rep 1997 Jan 24;46(3):62–4

Progress toward elimination of Haemophilus influenzae type b disease among infants and children—United States, 1987–1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 25; 45(42):901–6

Recommendations for the use of Haemophilus influenzae type b vaccines among children in the United States. Bisgard KM, et al. **Pediatr Ann** 1997 Jun;26(6):361–5 (27 ref.)

Haemophilus influenzae type b disease and vaccination in Latin America and the Caribbean. Peltola H.
Pediatr Infect Dis J 1997 Aug;16(8):780–7

The incidence of respiratory tract pathogens and antimicrobial susceptibilities of Streptococcus pneumoniae, Haemophilus influenzae and Moraxella (Branhamella) catarrhalis isolated between 1990 and 1993. Nishioka K, et al. **Tohoku J Exp Med** 1996 Jun;179(2):111–21

Incidence of H. influenzae in a day–care center. Akçakaya N, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):289–93

[Morbidity caused by Haemophilus influenzae type B and the vaccinal prevention of this infection] Demina AA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):99–104 (47 ref.) **(Rus)**

[Epidemiological characterization of Haemophilus influenzae

using molecular markers] Aparicio P, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):227–32 (Eng. Abstr.) **(Spa)**

[Urinary tract infection caused by Haemophilus spp. in pediatrics: a rarely studied disease] Galán F, et al. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):483–5 (17 ref.) (Eng. Abstr.) **(Spa)**

[Haemophilus influenzae. Epidemiology of the invasive disease] Prats G, et al. **Med Clin (Barc)** 1996 Oct 5; 107(11):422–8 (95 ref.) **(Spa)**

[Haemophilus influenzae infections in 2 hospitals in the city of Puebla, Mexico] Sosa-Iglesias EG, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):189–99 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Haemophilus influenzae central corneal ulcer associated with cosmetic lens wear. Leahey AB, et al. **CLAO J** 1996 Jul; 22(3):213–4

Haemophilus endocarditis: report of 42 cases in adults and review. Haemophilus Endocarditis Study Group. Darras-Joly C, et al. **Clin Infect Dis** 1997 Jun;24(6):1087–94

Genetic identification of cryptic genospecies of Haemophilus causing urogenital and neonatal infections by PCR using specific primers targeting genes coding for 16S rRNA. Quentin R, et al. **J Clin Microbiol** 1996 Jun;34(6):1380–5

Haemophilus influenzae adherent to contact lenses associated with production of acute ocular inflammation. Sankaridurg PR, et al. **J Clin Microbiol** 1996 Oct;34(10):2426–31

Expression of capsules by Haemophilus influenzae in mixed infections [letter; comment] Jordens JZ, et al. **J Infect** 1996 Jul;33(1):65–6. Comment on: J Infect 1995 May;30(3):219–22.

A case-control study examining risk factors for invasive Haemophilus influenzae type b disease in Victoria, Australia 1988–90. Clements DA, et al. **J Paediatr Child Health** 1995 Dec;31(6):513–8

Relapsing CAPD peritonitis with rapid peritoneal sclerosis due to Haemophilus influenzae. Chew CG, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):821–2

Endophthalmitis after secondary intraocular lens implantation. A case-report study. Scott IU, et al. **Ophthalmology** 1995 Dec;102(12):1925–31

GENETICS

The effect of mutations in genes required for lipopolysaccharide synthesis on Haemophilus influenzae type b colonization of human nasopharyngeal tissue. Jackson AD, et al. **Microb Pathog** 1996 Dec;21(6):463–70

Immunoglobulin allotypes and genetic susceptibility to invasive Haemophilus influenzae type b and Staphylococcus aureus infections in South African children. Goddard EA, et al. **Pediatr Infect Dis J** 1996 May;15(5):419–24

IMMUNOLOGY

The immunogenicity of three Haemophilus influenzae type B conjugate vaccines after a primary vaccination series in Philippine infants. Capeding MR, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):516–20

Haemophilus influenzae type b vaccine in India: need and timing, immunogenecity and tolerance. Acharya D, et al. **Indian Pediatr** 1997 Jan;34(1):9–15

Potential role of autoantibodies in the regulation of cytokine responses during bacterial infections. Bakhiet M, et al. **Infect Immun** 1997 Aug;65(8):3300–3

Fine mapping of outer membrane protein P2 antigenic sites which vary during persistent infection by Haemophilus influenzae. Duim B, et al. **Infect Immun** 1996 Nov; 64(11):4673–9

MF59 adjuvant enhances antibody responses of infant baboons immunized with Haemophilus influenzae type b and Neisseria meningitidis group C oligosaccharide–CRM197 conjugate vaccine. Granoff DM, et al. **Infect Immun** 1997 May;65(5):1710–5

Protective effect of breastfeeding on invasive Haemophilus influenzae infection: a case-control study in Swedish preschool children. Silfverdal SA, et al. **Int J Epidemiol** 1997 Apr;26(2):443–50

Mechanism of antibody-mediated reduction of nasopharyngeal colonization by Haemophilus influenzae type b studied in an infant rat model. Kauppi-Korkeila M, et al. **J Infect Dis** 1996 Dec;174(6):1337–40

The immunogenicity of Haemophilus influenzae: meningococcal protein conjugate vaccine in Polynesian and non-Polynesian New Zealand infants. Ameratunga SN, et al. **J Paediatr Child Health** 1997 Apr;33(2):138–41

Hepatitis C after immunoglobulin administration [letter; comment] Barton LL. **Pediatr Infect Dis J** 1996 Jun; 15(6):558. Comment on: Pediatr Infect Dis J 1995 Nov;14(11):982–92.

Serum antibodies in six-year-old children vaccinated in infancy with a Haemophilus influenzae type b-tetanus toxoid conjugate vaccine. Claesson BA, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):170–2

Immunoglobulin allotypes and genetic susceptibility to invasive Haemophilus influenzae type b and Staphylococcus aureus infections in South African children. Goddard EA, et al. **Pediatr Infect Dis J** 1996 May;15(5):419–24

MICROBIOLOGY

Persistence of nontypeable Haemophilus influenzae in adenoid macrophages: a putative colonization mechanism. Forsgren J, et al. **Acta Otolaryngol (Stockh)** 1996 Sep; 116(5):766–73

Endocarditis due to Haemophilus influenzae serotype f. Frayha HH, et al. **Clin Infect Dis** 1996 Aug;23(2):401–2

Resistance patterns of Streptococcus pneumoniae and Haemophilus influenzae isolates recovered in Egypt from children with pneumonia. The Antimicrobial Resistance Surveillance Study Group. Ostroff SM, et al. **Clin Infect Dis** 1996 Nov;23(5):1069–74

The nasopharyngeal bacterial flora in children with otitis media with effusion [see comments] Fujimori I, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):260–3. Comment in: Eur Arch Otorhinolaryngol 1997;254(1):19. Comment in: Eur Arch Otorhinolaryngol 1997;254(2):113.

Invasive Haemophilus influenzae in the Republic of Ireland. Moloney AC, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):377–80

Sequence variation in the hpd gene of nonencapsulated Haemophilus influenzae isolated from patients with chronic bronchitis. Duim B, et al. **Gene** 1997 May 20;191(1):57–60

Role of bacterial Mn-cofactored superoxide dismutase in oxidative stress responses, nasopharyngeal colonization, and sustained bacteremia caused by Haemophilus influenzae type b. D'Mello RA, et al. **Infect Immun** 1997 Jul; 65(7):2700–6

Molecular variation in the major outer membrane protein P5 gene of nonencapsulated Haemophilus influenzae during chronic infections. Duim B, et al. **Infect Immun** 1997 Apr; 65(4):1351–6

Nonencapsulated Haemophilus influenzae in Aboriginal infants with otitis media: prolonged carriage of P2 porin variants and evidence for horizontal P2 gene transfer. Smith-Vaughan HC, et al. **Infect Immun** 1997 Apr; 65(4):1468–74

Clinical features of patients with beta-lactamase producing Haemophilus influenzae isolated from sputum. Johnson SR, et al. **J Antimicrob Chemother** 1996 Nov;38(5):881–4

Invasive non-typeable Haemophilus influenzae diseases in children. Schutze GE, et al. **J Ark Med Soc** 1996 Aug; 93(3):137–8

Variation in metabolic enzyme activity of persistent Haemophilus influenzae in respiratory tracts of patients with cystic fibrosis. Möller LV, et al. **J Clin Microbiol** 1996 Aug;34(8):1926–9

Molecular characteristics of Haemophilus influenzae causing invasive disease during the period of vaccination in Switzerland: analysis of strains isolated between 1986 and 1993. Muhlemann K, et al. **J Clin Microbiol** 1996 Mar; 34(3):560–3

Haemophilus parainfluenzae biliary tract infections [letter; comment] Pierard D, et al. **J Clin Microbiol** 1996 Jul; 34(7):1866–7. Comment on: J Clin Microbiol 1995 Nov;33(11):3042–3.

Comparison of four different sampling methods for detecting pharyngeal carriage of Streptococcus pneumoniae and Haemophilus influenzae in children. Rapola S, et al. **J Clin Microbiol** 1997 May;35(5):1077–9

Outbreak of amoxicillin-resistant Haemophilus influenzae type b: variable number of tandem repeats as novel molecular markers. van Belkum A, et al. **J Clin Microbiol** 1997 Jun;35(6):1517–20

Endocarditis caused by Haemophilus parainfluenzae identified by 16S ribosomal RNA sequencing. Das I, et al. **J Clin Pathol** 1997 Jan;50(1):72–4

Haemophilus influenzae and appendix mass [letter] Cousin GC, et al. **J Infect** 1997 Mar;34(2):157

Pyrolysis mass spectrometry in epidemiological and population genetic studies of Haemophilus influenzae. Leaves NI, et al. **J Med Microbiol** 1997 Mar;46(3):204–7

Haemophilus influenzae type b vaccination [letter; comment] Melhus A, et al. **Lancet** 1997 Jul 19;350(9072):222. Comment on: Lancet 1997 Apr 26;349(9060):1186–7.

Epidemiology of antibiotic resistance in Haemophilus influenzae. Goldstein FW, et al. **Microb Drug Resist** 1995 Summer;1(2):131–5 (35 ref.)

Differences in genetic diversity of nonecapsulated Haemophilus influenzae from various diseases. van Alphen L, et al. **Microbiology** 1997 Apr;143 (Pt 4):1423–31

Haemophilus influenzae salpingitis and septicemia in an adult. Carmeci C, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):863

Case records of the Children's Hospital Medical Center of Akron: a 29-month-old boy with drooling [clinical conference] Knapp JF. **Pediatr Emerg Care** 1996 Oct; 12(5):378–81

[A clinical study of chronic lower respiratory infection with Haemophilus influenza by transtracheal aspiration] Tsujimoto M, et al. **Kansenshogaku Zasshi** 1996 Sep; 70(9):947–54 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

The tympanic membrane and middle ear mucosa during non-typeable Haemophilus influenzae and Haemophilus influenzae type b acute otitis media: a study in the rat. Magnuson K, et al. **Acta Otolaryngol (Stockh)** 1997 May; 117(3):396–405

PHYSIOPATHOLOGY

Specific binding of Haemophilus influenzae to minor gangliosides of human respiratory epithelial cells. Fakih MG, et al. **Infect Immun** 1997 May;65(5):1695–700

Hib-EuroSud'95: the South exists. Barquet N, et al. **Vaccine** 1996 Dec;14(17–18):1569–72 (44 ref.)

[Examination of primary SPF swine after experimental infection with Haemophilus parasuis. Clinical symptoms, changes in hematological parameters and in the parameters of the cerebrospinal fluid] Wiegand M, et al. **Tierarztl Prax** 1997 May;25(3):226–32 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

The immunogenicity of three Haemophilus influenzae type B conjugate vaccines after a primary vaccination series in Philippine infants. Capeding MR, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):516–20

Progress towards a vaccine for nontypable Haemophilus influenzae. St. Geme JW 3rd. **Ann Med** 1996 Feb;28(1):31–7 (64 ref.)

Antibody response of Mexican infants to Haemophilus influenzae type b capsular polyribosylribitol phosphate. Differences between natural and vaccine induced (oligosaccharide–CRM197 conjugated vaccine) immunization. Massó F, et al. **Arch Med Res** 1996 Winter; 27(4):539–45

A comparison of early and late vaccination with Haemophilus influenzae type b conjugate and pneumococcal polysaccharide vaccines after allogeneic BMT. Parkkali T, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):961–7

Failures after immunization with Haemophilus influenzae type b vaccines--1991–1995. Scheifele D, et al. **Can Commun Dis Rep** 1996 Feb 1;22(3):17–20, 23

Invasive disease due to Haemophilus influenzae serotype f: clinical and epidemiologic characteristics in the H. influenzae serotype b vaccine era. The Haemophilus influenzae Study Group [see comments] Urwin G, et al. **Clin Infect Dis** 1996 Jun;22(6):1069–76. Comment in: Clin Infect Dis 1996 Jun;22(6):1077–8.

Invasive infections due to Haemophilus influenzae serotype f (Hif)—is Hif an emerging pathogen? [editorial; comment] Ward JI. **Clin Infect Dis** 1996 Jun;22(6):1077–8. Comment on: Clin Infect Dis 1996 Jun;22(6):1069–76.

Decline of bone and joint infections attributable to haemophilus influenzae type b. Bowerman SG, et al. **Clin Orthop** 1997 Aug;(341):128–33

Haemophilus influenzae type b (Hib) vaccination and uptake predictors in Northern Ireland. Tohani VK, et al. **Commun Dis Rep CDR Rev** 1996 Mar 1;6(3):R52–4

Evidence for induction of polysaccharide specific B-cell-memory in the 1st year of life: plain Haemophilus influenzae type b-PRP (Hib) boosters children primed with a tetanus-conjugate Hib-DTPa-HBV combined vaccine. Zepp F, et al. **Eur J Pediatr** 1997 Jan;156(1):18–24

Haemophilus influenzae type b vaccine in India: need and timing, immunogenecity and tolerance. Acharya D, et al. **Indian Pediatr** 1997 Jan;34(1):9–15

MF59 adjuvant enhances antibody responses of infant baboons immunized with Haemophilus influenzae type b and Neisseria meningitidis group C oligosaccharide–CRM197 conjugate vaccine. Granoff DM, et al. **Infect Immun** 1997 May;65(5):1710–5

Effect of Haemophilus influenzae type b conjugate vaccine in combination with peroral immunization with Escherichia coli on experimental otitis media. Melhus A, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jun;36(1):1–12

Mechanism of antibody-mediated reduction of nasopharyngeal colonization by Haemophilus influenzae type b studied in an infant rat model. Kauppi-Korkeila M, et al. **J Infect Dis** 1996 Dec;174(6):1337–40

Decline of pediatric admissions with Haemophilus influenzae type b in New York State, 1982 through 1993: relation to immunizations. Liptak GS, et al. **J Pediatr** 1997 Jun; 130(6):923–30

Immunity to Haemophilus influenzae type b polysaccharide capsule after vaccination with the complete series of oligosaccharide CRM197 conjugate vaccine in infants with human immunodeficiency virus infection. Peters VB, et al. **J Pediatr** 1996 Mar;128(3):363–5

Are Hib booster vaccinations redundant? [letter] Heath PT, et al. **Lancet** 1997 Sep 13;350(9080):817

Randomised trial of Haemophilus influenzae type-b tetanus protein conjugate vaccine [corrected] for prevention of pneumonia and meningitis in Gambian infants [see comments] [published erratum appears in Lancet 1997 Aug 16;350(9076):524] Mulholland K, et al. **Lancet** 1997 Apr 26;349(9060):1191–7. Comment in: Lancet 1997 Apr 26;349(9060):1186–7.

Haemophilus influenzae type b infections are preventable everywhere [comment] [see comments] Steinhoff MC. **Lancet** 1997 Apr 26;349(9060):1186–7. Comment on: Lancet 1997 Apr 26;349(9060):1191–7. Comment on: Lancet 1997 Apr 26;349(9060):1197–202. Comment in: Lancet 1997 Jul 19;350(9072):222.

Haemophilus influenzae type b. **Nurse Pract** 1996 Aug; 21(8):96, 99–100

Recommendations for the use of Haemophilus influenzae type b vaccines among children in the United States. Bisgard KM, et al. **Pediatr Ann** 1997 Jun;26(6):361–5 (27 ref.)

Antibody response to Haemophilus influenzae type b capsular polysaccharide conjugated to tetanus toxoid in preterm infants. Kristensen K, et al. **Pediatr Infect Dis J** 1996 Jun;

15(6):525–9

Large scale, postlicensure, selective vaccination of Chilean infants with PRP–T conjugate vaccine: practicality and effectiveness in preventing invasive Haemophilus influenzae type b infections. Lagos R, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):216–22

Immunity to Haemophilus influenzae type b after reimmunization with oligosaccharide CRM197 conjugate vaccine in children with human immunodeficiency virus infection. Peters VB, et al. **Pediatr Infect Dis J** 1997 Jul; 16(7):711–3

Vaccination against colonizing bacteria with multiple serotypes. Lipsitch M. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6571–6

The impact of Haemophilus influenzae type b vaccination in Sweden. Garpenholt O, et al. **Scand J Infect Dis** 1996; 28(2):165–9

Relative immunogenicity and efficacy of two synthetic chimeric peptides of fimbrin as vaccinogens against nasopharyngeal colonization by nontypeable Haemophilus influenzae in the chinchilla. Bakaletz LO, et al. **Vaccine** 1997 Jun;15(9):955–61

Cost–effectiveness evaluation of vaccination against Haemophilus influenzae invasive diseases in France. Livartowski A, et al. **Vaccine** 1996 Apr;14(6):495–500

Study of booster doses of two Haemophilus influenzae type b conjugate vaccines including their interchangeability. Scheifele D, et al. **Vaccine** 1996 Oct;14(15):1399–406

Effect of lipid modification on the physicochemical, structural, antigenic and immunoprotective properties of Haemophilus influenzae outer membrane protein P6. Yang YP, et al. **Vaccine** 1997 Jun;15(9):976–87

[A caution! Vaccines don't protect completely against acute epiglottitis] Spandow O, et al. **Lakartidningen** 1996 Oct 30;93(44):3927–8 **(Swe)**

REHABILITATION

Decline of pediatric admissions with Haemophilus influenzae type b in New York State, 1982 through 1993: relation to immunizations. Liptak GS, et al. **J Pediatr** 1997 Jun; 130(6):923–30

THERAPY

Pott's puffy tumor due to Haemophilus influenzae: case report and review. Verbon A, et al. **Clin Infect Dis** 1996 Dec;23(6):1305–7 (15 ref.)

Anti–CD11b monoclonal antibody in an infant rat model of Haemophilus influenzae type b sepsis and meningitis. Tan TQ, et al. **J Antimicrob Chemother** 1997 Feb;39(2):209–16

Modulation of antigen–specific T and B cell responses influence bacterial clearance of non–typeable Haemophilus influenzae from the lung in a rat model. Kyd JM, et al. **Vaccine** 1996 Oct;14(15):1471–8

[Comparative study of the protective role of the vaccine against Haemophilus influenzae type b and partial splenectomy in an experimental model] Pérez Maestu R, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):5–9 (Eng. Abstr.) **(Spa)**

TRANSMISSION

Conjugate vaccines and the carriage of Haemophilus influenzae type b. Barbour ML. **Emerg Infect Dis** 1996 Jul–Sep;2(3):176–82 (55 ref.)

Invasive Haemophilus influenzae type b disease in elderly nursing home residents: two related cases. Heath TC, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):179–82

Cellulitis and myositis caused by Agrobacterium radiobacter and Haemophilus parainfluenzae after influenza virus vaccination. Owensby JE, et al. **South Med J** 1997 Jul; 90(7):752–4

A statistical model of transmission of Hib bacteria in a family. Auranen K, et al. **Stat Med** 1996 Oct 30;15(20):2235–52

[Maternal–fetal vertical transmission of Haemophilus influenzae and Haemophilus parainfluenzae] Garcia E, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):65–9 (Eng. Abstr.) **(Spa)**

VETERINARY

Haemophilus somnus—unlikely to be a causative microbiological agent in bovine clinical mastitis in Denmark. Wedderkopp A. **Acta Vet Scand** 1997;38(2):193–5

Development and application of DNA probes and PCR tests for Haemophilus paragallinarum. Chen X, et al. **Avian Dis** 1996 Apr–Jun;40(2):398–407

Bovine IgG2a antibodies to Haemophilus somnus and allotype expression. Corbeil LB, et al. **Can J Vet Res** 1997 Jul;61(3):207–13

Interaction of Haemophilus parasuis with nasal and tracheal mucosa following intranasal inoculation of cesarean derived colostrum deprived (CDCD) swine. Vahle JL, et al. **Can J Vet Res** 1997 Jul;61(3):200–6

Association of Pasteurella haemolytica, Pasteurella multocida and Haemophilus somnus with pneumonia in calves. Haziroglu R, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Apr;104(4):150–3

Immunohistochemical detection of Haemophilus parasuis serovar 5 in formalin–fixed, paraffin–embedded tissues of experimentally infected swine. Segalés J, et al. **J Vet Diagn Invest** 1997 Jul;9(3):237–43

Effects on endotoxin pathogenicity in pigs with acute septicemia of Haemophilus parasuis infection. Amano H, et al. **J Vet Med Sci** 1997 Jun;59(6):451–5

Pathogenicity of Haemophilus parasuis serovars 4 and 5 in contact–exposed pigs. Amano H, et al. **J Vet Med Sci** 1996 Jun;58(6):559–61

Porcine reproductive and respiratory syndrome virus (PRRSv) interaction with Haemophilus parasuis. Solano GI, et al. **Vet Microbiol** 1997 Apr;55(1–4):247–57

A sero–epidemiological study of Haemophilus somnus infection in dairy cattle. Akhtar S, et al. **Vet Res Commun** 1997 May;21(4):229–39

A comparative study of the major outer membrane proteins of the avian haemophili and Pasteurella gallinarum. Hartmann L, et al. **Zentralbl Bakteriol** 1996 Jun; 284(1):47–51

[Identification and diagnosis of Taylorella equigenitalis by a DNA amplification method (PCR)] Miserez R, et al. **Schweiz Arch Tierheilkd** 1996;138(3):115–20 (Eng. Abstr.) **(Ger)**

HAEMOPHILUS INFLUENZAE

Electrophysiological effects of multiple instillation of Haemophilus influenzae type b endotoxin on the inner ear. Stenqvist M, et al. **Acta Otolaryngol (Stockh)** 1997 May; 117(3):352–7

Haemophilus species bacteremia in adults. The importance of the human immunodeficiency virus epidemic. Muñoz P, et al. **Arch Intern Med** 1997 Sep 8;157(16):1869–73

Invasive disease due to Haemophilus influenzae serotype f: clinical and epidemiologic characteristics in the H. influenzae serotype b vaccine era. The Haemophilus influenzae Study Group [see comments] Urwin G, et al. **Clin Infect Dis** 1996 Jun;22(6):1069–76. Comment in: Clin Infect Dis 1996 Jun;22(6):1077–8.

Decline of bone and joint infections attributable to haemophilus influenzae type b. Bowerman SG, et al. **Clin Orthop** 1997 Aug;(341):128–33

The decline of Haemophilus influenzae type b disease in Australia. Herceg A. **Commun Dis Intell** 1997 Jun 26; 21(13):173–6

Haemophilus influenzae type b (Hib) vaccination and uptake predictors in Northern Ireland. Tohani VK, et al. **Commun Dis Rep CDR Rev** 1996 Mar 1;6(3):R52–4

Hemophilus influenzae septic arthritis and pneumonia in an adult as the first presentation of multiple myeloma. Bhatnagar SK, et al. **Conn Med** 1996 Nov;60(11):643–7

Invasive Haemophilus influenzae type b disease in elderly nursing home residents: two related cases. Heath TC, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):179–82

Incidence of invasive Haemophilus influenzae type b disease in Italian children. Tozzi AE, et al. **Eur J Epidemiol** 1997 Jan;13(1):73–7

Haemophilus influenzae b–vaccination: the urgency for timely vaccination. von Kries R, et al. **Eur J Pediatr** 1997 Apr;156(4):282–7

Biliary tract infection and bacteraemia associated with Haemophilus influenzae. Shoufanie A, et al. **Eur J Surg** 1996 Sep;162(9):743–5

Haemophilus influenzae sepsis resulting from pneumonia. Marinella MA. **Heart Lung** 1997 Jan–Feb;26(1):80–2

Potential role of autoantibodies in the regulation of cytokine responses during bacterial infections. Bakhiet M, et al. **Infect Immun** 1997 Aug;65(8):3300–3

Effect of Haemophilus influenzae type b conjugate vaccine in combination with peroral immunization with Escherichia coli on experimental otitis media. Melhus A, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jun;36(1):1–12

Anti–CD11b monoclonal antibody in an infant rat model of Haemophilus influenzae type b sepsis and meningitis. Tan TQ, et al. **J Antimicrob Chemother** 1997 Feb;39(2):209–16

Invasive Haemophilus influenzae diseases and purulent meningitis in Taiwan. Wang CH, et al. **J Formos Med Assoc** 1996 Aug;95(8):599–604

Haemophilus influenzae and appendix mass [letter] Cousin GC, et al. **J Infect** 1997 Mar;34(2):157

New murine model of bronchopneumonia due to cell–bound Haemophilus influenzae. Miyazaki S, et al. **J Infect Dis** 1997 Jan;175(1):205–9

A case–control study examining risk factors for invasive Haemophilus influenzae type b disease in Victoria, Australia 1988–90. Clements DA, et al. **J Paediatr Child Health** 1995 Dec;31(6):513–8

Spectrum of Haemophilus influenzae type b disease in children at a university hospital in Riyadh, Saudi Arabia. Abdullah AM, et al. **J Trop Pediatr** 1997 Feb;43(1):10–2

From the Centers for Disease Control and Prevention. Progress toward elimination of Haemophilus influenzae type b disease among infants and children—United States, 1987–1995. **JAMA** 1996 Nov 20;276(19):1542, 1544

Vaccine failures after primary immunisation with Haemophilus influenzae type–b conjugate vaccine without booster [see comments] [published erratum appears in Lancet 1997 May 31;349(9065):1630] Booy R, et al. **Lancet** 1997 Apr 26;349(9060):1197–202. Comment in: Lancet 1997 Apr 26;349(9060):1186–7. Comment in: Lancet 1997 Jul 5;350(9070):68.

Haemophilus influenzae type b vaccination [letter; comment] Domínguez A, et al. **Lancet** 1997 Jul 19;350(9072):222. Comment on: Lancet 1997 Apr 26;349(9060):1186–7.

Randomised trial of Haemophilus influenzae type–b tetanus protein conjugate vaccine [corrected] for prevention of pneumonia and meningitis in Gambian infants [see comments] [published erratum appears in Lancet 1997 Aug 16;350(9076):524] Mulholland K, et al. **Lancet** 1997 Apr 26;349(9060):1191–7. Comment in: Lancet 1997 Apr 26;349(9060):1186–7.

Haemophilus influenzae type b infections are preventable everywhere [comment] [see comments] Steinhoff MC. **Lancet** 1997 Apr 26;349(9060):1186–7. Comment on: Lancet 1997 Apr 26;349(9060):1191–7. Comment on: Lancet 1997 Apr 26;349(9060):1197–202. Comment in: Lancet 1997 Jul 19;350(9072):222.

Data management for an efficacy trial of a vaccine in the Gambia. Lahai GP, et al. **Methods Inf Med** 1997 Aug; 36(3):214–20

Progress toward elimination of Haemophilus influenzae type b disease among infants and children—United States, 1987–1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 25; 45(42):901–6

Relapsing CAPD peritonitis with rapid peritoneal sclerosis due to Haemophilus influenzae. Chew CG, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):821–2

Haemophilus influenzae type b. **Nurse Pract** 1996 Aug; 21(8):96, 99–100

Haemophilus influenzae salpingitis and septicemia in an adult. Carmeci C, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):863

Hepatitis C after immunoglobulin administration [letter; comment] Barton LL. **Pediatr Infect Dis J** 1996 Jun; 15(6):558. Comment on: Pediatr Infect Dis J 1995 Nov;14(11):982–92.

Haemophilus influenzae: it's role in pediatric infections. Introduction. Klein JO. **Pediatr Infect Dis J** 1997 Feb;16(2 Suppl):S3–4

Role of nontypeable Haemophilus influenzae in pediatric respiratory tract infections. Klein JO. **Pediatr Infect Dis J** 1997 Feb;16(2 Suppl):S5–8 (27 ref.)

Haemophilus influenzae type b disease and vaccination in Latin America and the Caribbean. Peltola H. **Pediatr Infect Dis J** 1997 Aug;16(8):780–7

Conjunctivitis in infants and children. Wald ER. **Pediatr Infect Dis J** 1997 Feb;16(2 Suppl):S17–20

Bilateral empyema and pneumonia due to chloramphenicol–resistant Haemophilus influenzae type b. Chang AB, et al. **Pediatr Pulmonol** 1996 Sep;22(3):207–9

Haemophilus influenzae infections in adults: a pathogen in search of respect. Strausbaugh LJ. **Postgrad Med** 1997 Feb; 101(2):191–2, 195–6, 199–200 (19 ref.)

Septic arthritis due to Haemophilus parainfluenzae in a patients infected with the human immunodeficiency virus type 1 [letter] Blanche P, et al. **Rev Rhum Engl Ed** 1996 May;63(5):380

Hemophilus influenzae type b meningitis: pediatric overview. Catania S, et al. **Riv Eur Sci Med Farmacol** 1996 Jul–Aug; 18(4):163–7

A statistical model of transmission of Hib bacteria in a family. Auranen K, et al. **Stat Med** 1996 Oct 30;15(20):2235–52

The incidence of respiratory tract pathogens and antimicrobial susceptibilities of Streptococcus pneumoniae, Haemophilus influenzae and Moraxella (Branhamella) catarrhalis isolated between 1990 and 1993. Nishioka K, et al. **Tohoku J Exp Med** 1996 Jun;179(2):111–21

[Morbidity caused by Haemophilus influenzae type B and the vaccinal prevention of this infection] Demina AA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):99–104 (47 ref.) **(Rus)**

[Serum antibodies against Haemophilus influenzae in children from the province of Valladolid (Spain)] Blanco Quirós A, et al. **An Esp Pediatr** 1996 Nov;45(5):487–92 (Eng. Abstr.) **(Spa)**

[Type b Haemophilus influenzae meningitis after 2 doses of conjugated vaccine] Moral Gil L, et al. **An Esp Pediatr** 1996 Dec;45(6):645–6 **(Spa)**

[Endocarditis due to Haemophilus influenzae type B: a new case and review of literature] Otero Reigada MC, et al. **An Esp Pediatr** 1997 May;46(5):508–10 (25 ref.) **(Spa)**

[Biliary infection and bacteremia caused by Haemophilus influenzae (letter)] Garcés Garmendia MA, et al. **An Med Interna** 1996 Nov;13(11):566–7 **(Spa)**

[Haemophilus influenzae. Epidemiology of the invasive disease] Prats G, et al. **Med Clin (Barc)** 1996 Oct 5; 107(11):422–8 (95 ref.) **(Spa)**

[Haemophilus influenzae infections in 2 hospitals in the city of Puebla, Mexico] Sosa–Iglesias EG, et al. **Rev Latinoam Microbiol** 1995 Jul–Sep;37(3):189–99 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Direct and indirect methods for molar–mass analysis of fragments of the capsular polysaccharide of Haemophilus influenzae type b. D'Ambra A, et al. **Anal Biochem** 1997 Aug 1;250(2):228–36

Synthesis of L–glycero–D–manno–heptopyranose–containing oligosaccharide structures found in lipopolysaccharides from Haemophilus influenzae. Bernlind C, et al. **Carbohydr Res** 1997 Jan 17;297(3):251–60

Development of a Haemophilus two–dimensional protein database. Cash P, et al. **Electrophoresis** 1997 Aug; 18(8):1472–82

Identifying the major proteome components of Haemophilus influenzae type–strain NCTC 8143. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1314–34

Structural studies of the cell–envelope oligosaccharide from

the lipopolysaccharide of Haemophilus influenzae strain RM.118-28. Risberg A, et al. **Eur J Biochem** 1997 Feb 1;243(3):701-7

Chemical synthesis of Haemophilus influenzae glycopeptide conjugates. Kandil AA, et al. **Glycoconj J** 1997 Jan; 14(1):13-7

Identification of two minor subunits in the pilus of Haemophilus influenzae. McCrea KW, et al. **J Bacteriol** 1997 Jul;179(13):4227-31

Receptor affinity purification of a lipid-binding adhesin from Haemophilus influenzae. Busse J, et al. **J Infect Dis** 1997 Jan;175(1):77-83

The lppC gene of Streptococcus equisimilis encodes a lipoprotein that is homologous to the e (P4) outer membrane protein from Haemophilus influenzae. Gase K, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):63-73

The effect of bacterial toxins on levels of intracellular adenosine nucleotides and human ciliary beat frequency. Kanthakumar K, et al. **Pulm Pharmacol** 1996 Aug; 9(4):223-30

A new significant recurrent dyad pairing in Haemophilus influenzae [letter] Mrázek J, et al. **Trends Biochem Sci** 1996 Jun;21(6):201-2

[Isolation and purification of capsular polysaccharide from Haemophilus influenzae type B] Grzybowska W, et al. **Postepy Hig Med Dosw** 1996;50(5):529-31 (Eng. Abstr.) **(Pol)**

CLASSIFICATION

The tympanic membrane and middle ear mucosa during non-typeable Haemophilus influenzae and Haemophilus influenzae type b acute otitis media: a study in the rat. Magnuson K, et al. **Acta Otolaryngol (Stockh)** 1997 May; 117(3):396-405

Case reports: invasive Haemophilus influenzae type a infections. Molougney B, et al. **Can Commun Dis Rep** 1997 Jun 1;23(11):82-4 **(Eng, Fre)**

Analysis of the prevaccine population of noncapsulate Haemophilus influenzae and identification of a putative epidemic clone. Leaves NI, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):410-4

Invasive non-typeable Haemophilus influenzae diseases in children. Schutze GE, et al. **J Ark Med Soc** 1996 Aug; 93(3):137-8

Molecular characteristics of Haemophilus influenzae causing invasive disease during the period of vaccination in Switzerland: analysis of strains isolated between 1986 and 1993. Muhlemann K, et al. **J Clin Microbiol** 1996 Mar; 34(3):560-3

Source of variation detected in ribotyping patterns of Haemophilus influenzae: comparison of traditional ribotyping, PCR-ribotyping and rDNA restriction analysis. Jordens JZ, et al. **J Med Microbiol** 1997 Sep;46(9):763-72

Pyrolysis mass spectrometry in epidemiological and population genetic studies of Haemophilus influenzae. Leaves NI, et al. **J Med Microbiol** 1997 Mar;46(3):204-7

Haemophilus influenzae type b vaccination [letter; comment] Melhus A, et al. **Lancet** 1997 Jul 19;350(9072):222. Comment on: Lancet 1997 Apr 26;349(9060):1186-7.

Conservation and antigenic cross-reactivity of the transferrin-binding proteins of Haemophilus influenzae, Actinobacillus pleuropneumoniae and Neisseria meningitidis. Holland J, et al. **Microbiology** 1996 Dec;142 (Pt 12):3505-13

A minimal gene set for cellular life derived by comparison of complete bacterial genomes [see comments] Mushegian AR, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10268-73. Comment in: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10004-5.

[Epidemiological characterization of Haemophilus influenzae using molecular markers] Aparicio P, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):227-32 (Eng. Abstr.) **(Spa)**

[Utilization of different microbiological markers in the study of Haemophilus influenzae] Azahares Romero LE, et al. **Rev Argent Microbiol** 1996 Jul-Sep;28(3):111-7 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

In vitro susceptibilities of 180 clinical isolates of Haemophilus influenzae to ampicillin, amoxycillin/clavulanate, cefaclor, cefuroxime, cefotaxime, clarithromycin, and azithromycin. Delmée M, et al. **Acta Clin Belg** 1996;51(4):237-43

Serotypes and antimicrobial resistance in Haemophilus influenzae in a hospital practice. Tee NW, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):184-7

In vitro activity of BAY 12-8039, a novel 8-methoxyquinolone, compared to activities of six fluoroquinolones against Streptococcus pneumoniae, Haemophilus influenzae, and Moraxella catarrhalis. Brueggemann AB, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1594-7

Genetic characterization of trimethoprim resistance in Haemophilus influenzae. de Groot R, et al. **Antimicrob Agents Chemother** 1996 Sep;40(9):2131-6

Antibiotic resistance among clinical isolates of Haemophilus influenzae in the United States in 1994 and 1995 and detection of beta-lactamase-positive strains resistant to amoxicillin-clavulanate: results of a national multicenter surveillance study. Doern GV, et al. **Antimicrob Agents Chemother** 1997 Feb;41(2):292-7

Activity of once-daily cefpodoxime regimens against Haemophilus influenzae and Streptococcus pneumoniae with an in vitro pharmacodynamic chamber model. Garrison MW, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1545-7

Ciprofloxacin-resistant Haemophilus influenzae strains possess mutations in analogous positions of GyrA and ParC. Georgiou M, et al. **Antimicrob Agents Chemother** 1996 Jul; 40(7):1741-4

In vitro activity of the tricyclic beta-lactam GV104326. Wise R, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1248-53

Resistance patterns of Streptococcus pneumoniae and Haemophilus influenzae isolates recovered in Egypt from children with pneumonia. The Antimicrobial Resistance Surveillance Study Group. Ostroff SM, et al. **Clin Infect Dis** 1996 Nov;23(5):1069-74

Effect of pre-operative antibiotic treatment on the bacterial content of the tonsil. Cafferkey MT, et al. **Clin Otolaryngol** 1993 Dec;18(6):512-6

In vitro activity of sanfetrinem (GV104326), a new trinem antimicrobial agent, versus Streptococcus pneumoniae, Haemophilus influenzae, and Moraxella catarrhalis. Doern GV, et al. **Diagn Microbiol Infect Dis** 1996 Sep;26(1):39-42

Influence of pH on the antimicrobial activity of clarithromycin and 14-hydroxyclarithromycin against Haemophilus influenzae using an in vitro pharmacodynamic model. Garrison MW, et al. **Diagn Microbiol Infect Dis** 1997 Apr;27(4):139-45

Nontypeable Haemophilus influenzae susceptibility: effect of inoculum size and beta-lactamase production. Gould JM, et al. **Diagn Microbiol Infect Dis** 1996 Oct;26(2):95-8

Evaluation of Haemophilus influenzae isolates with elevated MICs to amoxicillin/clavulanic acid. Jacobs MR, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):105-12

A 1994-95 survey of Haemophilus influenzae susceptibility to ten orally administered agents. A 187 clinical laboratory center sample in the United States. Jones RN, et al. **Diagn Microbiol Infect Dis** 1997 Mar;27(3):75-83

In vitro methods for confirming reduced susceptibility to cefuroxime among Haemophilus influenzae isolates [letter] MacGowan AP, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):328-9

Inoculum effect and bactericidal activity of cefditoren and other antibiotics against Streptococcus pneumoniae, Haemophilus influenzae, and Neisseria meningitidis. Soriano F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep; 15(9):761-3

Pharmacokinetics and pharmacodynamics of two oral forms of cefuroxime axetil. Garraffo R, et al. **Fundam Clin Pharmacol** 1997;11(1):90-5

Structure-activity relationships of carbapenem compounds to anti-Haemophilus influenzae activity and affinity for penicillin-binding proteins. Effect of 1 beta-methyl group and C-2 side chain. Kanazawa K, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):162-8

Antimicrobial resistance and epidemiological study of Haemophilus influenzae strains isolated in Portugal. The Multicentre Study Group. Bajanca-Lavado MP, et al. **J Antimicrob Chemother** 1996 Oct;38(4):615-25

Trends in antibiotic resistance of respiratory pathogens: an analysis and commentary on a collaborative surveillance study. Baquero F. **J Antimicrob Chemother** 1996 Jul;38 Suppl A:117-32

Isolation and characterization of a ciprofloxacin-resistant isolate of Haemophilus influenzae from The Netherlands [letter] Bootsma HJ, et al. **J Antimicrob Chemother** 1997 Feb;39(2):292-3

Non-enzyme mediated beta-lactam resistance in Haemophilus influenzae [letter] Corkill JE, et al. **J Antimicrob Chemother** 1996 Dec;38(6):1109-11

Analysis of oral antibiotic treatment that failed to prevent the development of Haemophilus influenzae meningitis: consequences on mortality. Dabernat H, et al. **J Antimicrob Chemother** 1996 Oct;38(4):679-89

Antimicrobial resistance among lower respiratory tract isolates of Haemophilus influenzae: results of a 1992-93 western Europe and USA collaborative surveillance study. The Alexander Project Collaborative Group. Doern GV. **J Antimicrob Chemother** 1996 Jul;38 Suppl A:59-69

Antimicrobial susceptibility of Haemophilus influenzae, Neisseria meningitidis and Streptococcus pneumoniae isolates causing meningitis in The Netherlands, 1993-1994. Enting RH, et al. **J Antimicrob Chemother** 1996 Nov; 38(5):777-86

In-vitro activity of cefditoren against clinical isolates of penicillin-susceptible and resistant strains of Streptococcus pneumoniae, Haemophilus influenzae and Neisseria meningitidis [letter] Fernández-Roblas R, et al. **J Antimicrob Chemother** 1996 May;37(5):1038-9

Multicentre in-vitro evaluation of the susceptibility of Streptococcus pneumoniae, Haemophilus influenzae and Moraxella catarrhalis to ciprofloxacin, clarithromycin, co-amoxiclav and sparfloxacin. Hoogkamp-Korstanje JA, et al. **J Antimicrob Chemother** 1997 Mar;39(3):411-4

In-vitro pharmacodynamic simulation of clavulanic acid concentrations: effect on Staphylococcus aureus and Haemophilus influenzae beta-lactamase activity [letter] Martín M, et al. **J Antimicrob Chemother** 1997 Feb; 39(2):290-2

Susceptibility testing of Haemophilus influenzae--an international collaborative study in quality assessment. Yeo SF, et al. **J Antimicrob Chemother** 1996 Sep;38(3):363-86

Exacerbation of COPD: amoxicillin + clavulanic acid in vitro activity vs S. pneumoniae, H. influenzae and M. catarrhalis. Beghi G, et al. **J Chemother** 1995 Nov;7 Suppl 4:61-2

Trends in the activity of macrolide and beta-lactam antibiotics and resistance development. Alexander Project Group. Schito GC, et al. **J Chemother** 1997 May;9 Suppl 3:18-28

Interpretive criteria and quality control parameters for testing of susceptibilities of Haemophilus influenzae and Streptococcus pneumoniae to trimethoprim and trimethoprim-sulfamethoxazole. The Antimicrobial Susceptibility Testing OC Group. Fuchs PC, et al. **J Clin Microbiol** 1997 Jan;35(1):125-31

Clonality of multidrug-resistant nontypeable strains of Haemophilus influenzae. Fusté MC, et al. **J Clin Microbiol** 1996 Nov;34(11):2760-5

Variability in susceptibilities of Haemophilus influenzae to clarithromycin and azithromycin due to medium pH. Nilius AM, et al. **J Clin Microbiol** 1997 Jun;35(6):1311-5

Reevaluation of interpretive criteria for Haemophilus influenzae by using meropenem (10-microgram), imipenem (10-microgram), and ampicillin (2- and 10-microgram) disks. Zerva L, et al. **J Clin Microbiol** 1996 Aug; 34(8):1970-4

From the Centers for Disease Control and Prevention. Antibiotic resistance among nasopharyngeal isolates of Streptococcus pneumoniae and Haemophilus influenzae--Bangui, 1995. **JAMA** 1997 Feb 26;277(8):621

Epidemiology of antibiotic resistance in Haemophilus influenzae. Goldstein FW, et al. **Microb Drug Resist** 1995 Summer;1(2):131-5 (35 ref.)

Antibiotic resistance among nasopharyngeal isolates of Streptococcus pneumoniae and Haemophilus influenzae--Bangui, Central African Republic, 1995 [published erratum appears in MMWR Morb Mortal Wkly Rep 1997 Apr 18;46(15):335] **MMWR Morb Mortal Wkly Rep** 1997 Jan 24;46(3):62-4

In vitro susceptibility patterns of nonserotypable Haemophilus influenzae from patients with chronic bronchitis. Butt HL, et al. **Pathology** 1997 Feb;29(1):72-5

Causative pathogens, antibiotic resistance and therapeutic considerations in acute otitis media. Block SL. **Pediatr Infect Dis J** 1997 Apr;16(4):449-56 (39 ref.)

Incidence of antibiotic-resistant Streptococcus pneumoniae and beta-lactamase-positive Haemophilus influenzae in clinical isolates from patients with otitis media. McLinn S, et al. **Pediatr Infect Dis J** 1996 Sep;15(9 Suppl):S3-9

Pharmacodynamic activity of five oral cephalosporins against Haemophilus influenzae. Stein GE, et al. **Pharmacotherapy** 1997 Mar-Apr;17(2):235-41

[Nationwide survey of susceptibilities of clinical isolates to antibacterial agents in 1992] Tabe Y, et al. **Jpn J Antibiot** 1997 Feb;50(2):178-86 (Eng. Abstr.) **(Jpn)**

[Macrolide antibiotics: Streptococcus pneumoniae and Haemophilus influenzae] Soriano F, et al. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):503-4 (7 ref.) **(Spa)**

ENZYMOLOGY

Purification and characterisation of a plasminogen-binding protein from Haemophilus influenzae. Sequence determination reveals identity with aspartase. Sjöström I, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):182-90

Bacterial aspartic proteinases. Hill J, et al. **FEBS Lett** 1997 Jun 16;409(3):357-60

Clinical features of patients with beta-lactamase producing Haemophilus influenzae isolated from sputum. Johnson SR, et al. **J Antimicrob Chemother** 1996 Nov;38(5):881-4

A mono-functional 3-deoxy-D-manno-octulosonic acid (Kdo) transferase and a Kdo kinase in extracts of Haemophilus influenzae. White KA, et al. **J Biol Chem** 1997 Jun 27;272(26):16555-63

Variation in metabolic enzyme activity of persistent Haemophilus influenzae in respiratory tracts of patients with cystic fibrosis. Möller LV, et al. **J Clin Microbiol** 1996 Aug;34(8):1926-9

Identification of new members of the lytic transglycosylase family in Haemophilus influenzae and Escherichia coli. Dijkstra AJ, et al. **Microb Drug Resist** 1996 Spring; 2(1):141-5

Plasmodium falciparum glucose-6-phosphate dehydrogenase (G6PD)-the N-terminal portion is homologous to a predicted protein encoded near to G6PD in Haemophilus influenzae [letter] Scopes DA, et al. **Mol Microbiol** 1997 Feb;23(4):847-8

Characterization of an ATP-dependent DNA ligase encoded by Haemophilus influenzae. Cheng C, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1369-74

GENETICS

Mutagenesis and ultraviolet inactivation of transforming DNA of Haemophilus influenzae complexed with a Bacillus subtilis protein that alters DNA conformation. Setlow JK, et al. **Acta Biochim Pol** 1996;43(1):107-14

Ciprofloxacin-resistant Haemophilus influenzae strains possess mutations in analogous positions of GyrA and ParC. Georgiou M, et al. **Antimicrob Agents Chemother** 1996 Jul; 40(7):1741-4

Metabolism and evolution of Haemophilus influenzae deduced from a whole-genome comparison with Escherichia coli. Tatusov RL, et al. **Curr Biol** 1996 Mar 1;6(3):279–91

Complete genome sequences of cellular life forms: glimpses of theoretical evolutionary genomics. Koonin EV, et al. **Curr Opin Genet Dev** 1996 Dec;6(6):757–62 (39 ref.)

Identifying the major proteome components of Haemophilus influenzae type-strain NCTC 8143. Link AJ, et al. **Electrophoresis** 1997 Aug;18(8):1314–34

The identification a novel gene required for lipopolysaccharide biosynthesis by Haemophilus influenzae RM7004, using transposon Tn916 mutagenesis. High NJ, et al. **FEMS Microbiol Lett** 1996 Dec 15;145(3):325–31

Isolation and characterization of the Haemophilus influenzae uvrA gene. de la Morena ML, et al. **Gene** 1996 Oct 24; 177(1–2):23–8

Sequence variation in the hpd gene of nonencapsulated Haemophilus influenzae isolated from patients with chronic bronchitis. Duim B, et al. **Gene** 1997 May 20;191(1):57–60

Isolation and characterization of the Haemophilus influenzae tolQ, tolR, tolA and tolB genes. Sen K, et al. **Gene** 1996 Oct 31;178(1–2):75–81

Cloning and expression of genes encoding lipid A biosynthesis from Haemophilus influenzae type b. Servos S, et al. **Gene** 1996 Oct 10;175(1–2):137–41

Molecular variation in the major outer membrane protein P5 gene of nonencapsulated Haemophilus influenzae during chronic infections. Duim B, et al. **Infect Immun** 1997 Apr; 65(4):1351–6

Lack of expression of the global regulator OxyR in Haemophilus influenzae has a profound effect on growth phenotype. Maciver I, et al. **Infect Immun** 1996 Nov; 64(11):4618–29

Identification of the ADP-L-glycero-D-manno-heptose-6-epimerase (rfaD) and heptosyltransferase II (rfaF) biosynthesis genes from nontypeable Haemophilus influenzae 2019. Nichols WA, et al. **Infect Immun** 1997 Apr;65(4):1377–86

Effect of amplification of the Cap b locus on complement-mediated bacteriolysis and opsonization of type b Haemophilus influenzae. Noel GJ, et al. **Infect Immun** 1996 Nov;64(11):4769–75

Nonencapsulated Haemophilus influenzae in Aboriginal infants with otitis media: prolonged carriage of P2 porin variants and evidence for horizontal P2 gene transfer. Smith-Vaughan HC, et al. **Infect Immun** 1997 Apr; 65(4):1468–74

HinCyc: a knowledge base of the complete genome and metabolic pathways of H. influenzae. Karp PD, et al. **Ismb** 1996;4:116–24

A molecular analysis of Greek and UK Haemophilus influenzae conjugative resistance plasmids. Dimopoulou ID, et al. **J Antimicrob Chemother** 1997 Mar;39(3):303–7

Role of the two-component signal transduction and the phosphoenolpyruvate: carbohydrate phosphotransferase systems in competence development of Haemophilus influenzae Rd [published erratum appears in J Bacteriol 1997 Jan;179(2):567] Gwinn ML, et al. **J Bacteriol** 1996 Nov;178(21):6366–8

The Haemophilus influenzae dprABC genes constitute a competence-inducible operon that requires the product of the tfoX (sxy) gene for transcriptional activation. Karudapuram S, et al. **J Bacteriol** 1997 Aug; 179(15):4815–20

Cloning and characterization of the haemocin immunity gene of Haemophilus influenzae. Murley YM, et al. **J Bacteriol** 1997 Mar;179(5):1684–9

Duplication of pilus gene complexes of Haemophilus influenzae biogroup aegyptius. Read TD, et al. **J Bacteriol** 1996 Nov;178(22):6564–70

Characterization of the genetic locus encoding Haemophilus influenzae type b surface fibrils. St. Geme JW 3rd, et al. **J Bacteriol** 1996 Nov;178(21):6281–7

Purification and characterization of HP1 Cox and definition of its role in controlling the direction of site-specific recombination. Esposito D, et al. **J Biol Chem** 1997 Mar 28;272(13):8660–70

Porins of Haemophilus influenzae type b mutated in loop 3 and in loop 4. Srikumar R, et al. **J Biol Chem** 1997 May 23;272(21):13614–21

Clonality of multidrug-resistant nontypeable strains of Haemophilus influenzae. Fusté MC, et al. **J Clin Microbiol** 1996 Nov;34(11):2760–5

Amplification and restriction endonuclease digestion of a large fragment of genes coding for rRNA as a rapid method for discrimination of closely related pathogenic bacteria [letter; comment] Smith-Vaughan HC, et al. **J Clin Microbiol** 1997 Jun;35(6):1646–7. Comment on: J Clin Microbiol 1996 Dec;34(12):2894–6.

Outbreak of amoxicillin-resistant Haemophilus influenzae type b: variable number of tandem repeats as novel molecular markers. van Belkum A, et al. **J Clin Microbiol** 1997 Jun;35(6):1517–20

Source of variation detected in ribotyping patterns of Haemophilus influenzae: comparison of traditional ribotyping, PCR-ribotyping and rDNA restriction analysis. Jordens JZ, et al. **J Med Microbiol** 1997 Sep;46(9):763–72

Conserved clusters of functionally related genes in two bacterial genomes. Tamames J, et al. **J Mol Evol** 1997 Jan; 44(1):66–73

Analysis of genomic patchiness of Haemophilus influenzae and Saccharomyces cerevisiae chromosomes. Liò P, et al. **J Theor Biol** 1996 Dec 21;183(4):455–69

Microbial genome sequencing opens door to new world [news] McCarthy M. **Lancet** 1997 Feb 22;349(9051):548

The effect of mutations in genes required for lipopolysaccharide synthesis on Haemophilus influenzae type b colonization of human nasopharyngeal tissue. Jackson AD, et al. **Microb Pathog** 1996 Dec;21(6):463–70

Differences in genetic diversity of nonecapsulated Haemophilus influenzae from various diseases. van Alphen L, et al. **Microbiology** 1997 Apr;143 (Pt 4):1423–31

Tandem repeats of the tetramer 5'-CAAT-3' present in lic2A are required for phase variation but not lipopolysaccharide biosynthesis in Haemophilus influenzae. High NJ, et al. **Mol Microbiol** 1996 Apr;20(1):165–74

Regulation of competence development and sugar utilization in Haemophilus influenzae Rd by a phosphoenolpyruvate:fructose phosphotransferase system. Macfadyen LP, et al. **Mol Microbiol** 1996 Sep;21(5):941–52

Conserved extragenic DNA elements in Haemophilus influenzae [letter] Read TD, et al. **Mol Microbiol** 1997 Feb; 23(3):627–8

Characterization of monoclonal antibodies recognizing three distinct, phosphorylated carbohydrate epitopes in the lipopolysaccharide of the deep rough mutant I-69 Rd-/b+ of Haemophilus influenzae. Rozalski A, et al. **Mol Microbiol** 1997 Feb;23(3):569–77

Plasmodium falciparum glucose-6-phosphate dehydrogenase (G6PD)-the N-terminal portion is homologous to a predicted protein encoded near to G6PD in Haemophilus influenzae [letter] Scopes DA, et al. **Mol Microbiol** 1997 Feb;23(4):847–8

Identification of new RNA modifying enzymes by iterative genome search using known modifying enzymes as probes. Gustafsson C, et al. **Nucleic Acids Res** 1996 Oct 1; 24(19):3756–62

Frequent oligonucleotides and peptides of the Haemophilus influenzae genome. Karlin S, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4263–72

Statistical evidence for a biochemical pathway of natural, sequence-targeted G/C to C/G transversion mutagenesis in Haemophilus influenzae Rd. Merkl R, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4146–51

DNA repeats identify novel virulence genes in Haemophilus influenzae. Hood DW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11121–5

The minimal cell genome: "on being the right size" [comment] Maniloff J. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10004–6 (25 ref.). Comment on: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10268–73.

A minimal gene set for cellular life derived by comparison of complete bacterial genomes [see comments] Mushegian AR, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10268–73. Comment in: Proc Natl Acad Sci U S A 1996 Sep 17;93(19):10004–5.

Non-orthologous gene displacement [letter] Koonin EV, et al. **Trends Genet** 1996 Sep;12(9):334–6

GROWTH & DEVELOPMENT

Persistence of nontypeable Haemophilus influenzae in adenoid macrophages: a putative colonization mechanism. Forsgren J, et al. **Acta Otolaryngol (Stockh)** 1996 Sep; 116(5):766–73

Role of bacterial Mn-cofactored superoxide dismutase in oxidative stress responses, nasopharyngeal colonization, and sustained bacteremia caused by Haemophilus influenzae type b. D'Mello RA, et al. **Infect Immun** 1997 Jul; 65(7):2700–6

Lack of expression of the global regulator OxyR in Haemophilus influenzae has a profound effect on growth phenotype. Maciver I, et al. **Infect Immun** 1996 Nov; 64(11):4618–29

Mechanism of antibody-mediated reduction of nasopharyngeal colonization by Haemophilus influenzae type b studied in an infant rat model. Kauppi-Korkeila M, et al. **J Infect Dis** 1996 Dec;174(6):1337–40

IMMUNOLOGY

The immunogenicity of three Haemophilus influenzae type B conjugate vaccines after a primary vaccination series in Philippine infants. Capeding MR, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):516–20

Local and systemic antibody levels against protein D of Haemophilus influenzae following immunization and infection in rats. Akkoyunlu M, et al. **APMIS** 1996 Oct; 104(10):709–17

Antibody responses to Haemophilus influenzae type b conjugate vaccine in sickle cell disease. Goldblatt D, et al. **Arch Dis Child** 1996 Aug;75(2):159–61

Detection of immunoglobulins on bacterial surface by laser flow cytometry: analysis between Haemophilus influenzae type b and Vibrio cholerae O1 of healthy mother-full term newborn sera. Cano-Morales S, et al. **Arch Med Res** 1996 Spring;27(1):67–70

Antibody response of Mexican infants to Haemophilus influenzae type b capsular polyribosylribitol phosphate. Differences between natural and vaccine induced (oligosaccharide-CRM197 conjugated vaccine) immunization. Massó F, et al. **Arch Med Res** 1996 Winter; 27(4):539–45

Structure of the variable and conserved lipopolysaccharide oligosaccharide epitopes expressed by Haemophilus influenzae serotype b strain Eagan. Masoud H, et al. **Biochemistry** 1997 Feb 25;36(8):2091–103

Antibody responses to tetanus toxoid and Haemophilus influenzae type b conjugate vaccines following autologous peripheral blood stem cell transplantation (PBSCT). Chan CY, et al. **Bone Marrow Transplant** 1997 Jul;20(1):33–8

A comparison of early and late vaccination with Haemophilus influenzae type b conjugate and pneumococcal polysaccharide vaccines after allogeneic BMT. Parkkali T, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):961–7

Failures after immunization with Haemophilus influenzae type b vaccines--1991–1995. Scheifele D, et al. **Can Commun Dis Rep** 1996 Feb 1;22(3):17–20, 23

Antipolysaccharide antibodies in 450 children with otitis media. Misbah SA, et al. **Clin Exp Immunol** 1997 Jul; 109(1):67–72

Expression of Haemophilus influenzae type b idiotype 1 on naturally acquired antibodies. Ulanova M, et al. **Clin Exp Immunol** 1996 Sep;105(3):422–8

Evaluation of immunogenicity and tolerance of single dose haemophilus influenzae type B (PRP-T) vaccine. Acharya D, et al. **Indian Pediatr** 1995 Oct;32(10):1077–82

Biological activity of serum antibodies to a nonacylated form of lipoprotein D of Haemophilus influenzae. Akkoyunlu M, et al. **Infect Immun** 1996 Nov;64(11):4586–92

Immunization with outer membrane protein P6 from nontypeable Haemophilus influenzae induces bactericidal antibody and affords protection in the chinchilla model of otitis media. DeMaria TF, et al. **Infect Immun** 1996 Dec; 64(12):5187–92

Fine mapping of outer membrane protein P2 antigenic sites which vary during persistent infection by Haemophilus influenzae. Duim B, et al. **Infect Immun** 1996 Nov; 64(11):4673–9

MF59 adjuvant enhances antibody responses of infant baboons immunized with Haemophilus influenzae type b and Neisseria meningitidis group C oligosaccharide-CRM197 conjugate vaccine. Granoff DM, et al. **Infect Immun** 1997 May;65(5):1710–5

Synthesis, characterization, and immunologic properties of detoxified lipooligosaccharide from nontypeable Haemophilus influenzae conjugated to proteins. Gu XX, et al. **Infect Immun** 1996 Oct;64(10):4047–53

Outer membrane protein D15 is conserved among Haemophilus influenzae species and may represent a universal protective antigen against invasive disease. Loosmore SM, et al. **Infect Immun** 1997 Sep;65(9):3701–7

Effect of amplification of the Cap b locus on complement-mediated bacteriolysis and opsonization of type b Haemophilus influenzae. Noel GJ, et al. **Infect Immun** 1996 Nov;64(11):4769–75

Human Fab fragments specific for the Haemophilus influenzae b polysaccharide isolated from a bacteriophage combinatorial library use variable region gene combinations and express an idiotype that mirrors in vivo expression. Reason DC, et al. **Infect Immun** 1997 Jan;65(1):261–6

Decoration of lipopolysaccharide with phosphorylcholine: a phase-variable characteristic of Haemophilus influenzae. Weiser JN, et al. **Infect Immun** 1997 Mar;65(3):943–50

Importance of an immunodominant surface-exposed loop on outer membrane protein P2 of nontypeable Haemophilus influenzae. Yi K, et al. **Infect Immun** 1997 Jan;65(1):150–5

Protective effect of breastfeeding on invasive Haemophilus influenzae infection: a case-control study in Swedish preschool children. Silfverdal SA, et al. **Int J Epidemiol** 1997 Apr;26(2):443–50

A resolved pneumococcal infection protects against nontypeable Haemophilus influenzae: an evaluation of different routes of whole cell immunization in protection against experimental acute otitis media. Melhus A, et al. **Int J Pediatr Otorhinolaryngol** 1997 Mar 6;39(2):119–31

The progeny of a single virgin B cell predominates the human recall B cell response to the capsular polysaccharide of Haemophilus influenzae type b. Barington T, et al. **J Immunol** 1996 Nov 1;157(9):4016–27

Mechanism of antibody-mediated reduction of nasopharyngeal colonization by Haemophilus influenzae type b studied in an infant rat model. Kauppi-Korkeila M, et al. **J Infect Dis** 1996 Dec;174(6):1337–40

Immunity to Haemophilus influenzae type b polysaccharide capsule after vaccination with the complete series of oligosaccharide CRM197 conjugate vaccine in infants with human immunodeficiency virus infection. Peters VB, et al. **J Pediatr** 1996 Mar;128(3):363–5

The 1996 Albert Lasker Medical Research Awards. Prevention of systemic infections, especially meningitis, caused by Haemophilus influenzae type b. Impact on public health and implications for other polysaccharide-based vaccines. Robbins JB, et al. **JAMA** 1996 Oct 9; 276(14):1181–5

Monoclonal antibodies against Haemophilus influenzae lipopolysaccharides: clone MAHI 4 binding to a pentasaccharide containing terminal beta-Gal residues and clone MAHI 10 recognizing terminal phosphorylated saccharide residues. Borrelli S, et al. **Microb Pathog** 1996 Nov;21(5):307–18

Detection of the phosphorylcholine epitope in streptococci, Haemophilus and pathogenic Neisseriae by immunoblotting. Kolberg J, et al. **Microb Pathog** 1997 Jun; 22(6):321–9

HAEMOPHILUS INFLUENZAE

Immunoglobulin G subclass response to major outer membrane proteins of nontypable Haemophilus influenzae in children with acute otitis media. Bernstein JM, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):363–71

Persistence of antibody responses to Haemophilus influenzae type b polysaccharide conjugate vaccine in children with vertically acquired human immunodeficiency virus infection. Gibb D, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1097–101

Passively acquired anti-tetanus and anti-Haemophilus antibodies and the response to Haemophilus influenzae type b–tetanus toxoid conjugate vaccine in infancy. Kurikka S, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):530–5

Large scale, postlicensure, selective vaccination of Chilean infants with PRP-T conjugate vaccine: practicality and effectiveness in preventing invasive Haemophilus influenzae type b infections. Lagos R, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):216–22

Immunity to Haemophilus influenzae type b after reimmunization with oligosaccharide CRM197 conjugate vaccine in children with human immunodeficiency virus infection. Peters VB, et al. **Pediatr Infect Dis J** 1997 Jul; 16(7):711–3

Serum antibodies against haemophilus influenzae type b and tetanus at 2.5 years of age: a follow-up of 2 different regimens of infant vaccination. Carlsson RM, et al. **Scand J Infect Dis** 1996;28(5):519–23

Invasive Haemophilus influenzae disease and epiglottitis among Swiss children from 1980 to 1993: evidence for herd immunity among older age groups. The Swiss Haemophilus Influenzae Study Group. Mühlemann K, et al. **Scand J Infect Dis** 1996;28(3):265–8

Cost-effectiveness evaluation of vaccination against Haemophilus influenzae invasive diseases in France. Livartowski A, et al. **Vaccine** 1996 Apr;14(6):495–500

Association of placental transfer of anti-Haemophilus influenzae type b polysaccharide antibodies with their V regions. Park MK, et al. **Vaccine** 1996 Sep;14(13):1219–22

Effect of lipid modification on the physicochemical, structural, antigenic and immunoprotective properties of Haemophilus influenzae outer membrane protein P6. Yang YP, et al. **Vaccine** 1997 Jun;15(9):976–87

[Pathogenesis of IgA nephropathy: role of outer membranes of Haemophilus parainfluenzae antigens] Suzuki S, et al. **Nippon Rinsho** 1997 Jun;55(6):1580–7 (30 ref.) (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Bacterial behaviour in middle ear effusion material: an in vitro study. Ruhani K, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):64–8

Bacteriological evaluation of 194 adult patients with acute frontal sinusitis and findings of simultaneous maxillary sinusitis. Antila J, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:162–4

Comparative bacteriology of the surface of normal and pathological palatine tonsils in children. Endo LH, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:130–2

Adherence of nontypable Haemophilus influenzae to respiratory epithelium of otitis prone and normal children. Faden H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 523:142–4

Epidemiology of nasopharyngeal colonization with nontypeable Haemophilus influenzae in the first two years of life. Faden H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:128–9

Study on specific mucosal immunity by intranasal immunization of outer membrane protein P6 of Haemophilus influenzae with cholera toxin B subunit. Hotomi M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 523:150–2

Adenoid lymphocyte responses to outer membrane protein P6 of nontypable Haemophilus influenzae in children with and without otitis media. Kodama H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:153–4

The role of tissue colonization and bacterial resistance in recurrent tonsillitis. Mevio E, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:133–7

Are there microbiological markers to predict recurrent acute otitis media? Rynnel-Dagöö B. **Acta Otolaryngol Suppl (Stockh)** 1997;529:19–21

Detection of Haemophilus influenzae in adenoids and nasopharyngeal secretions by polymerase chain reaction. Sakamoto N, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 523:145–6

Correlation of middle meatal and maxillary sinus cultures in acute maxillary sinusitis. Vaidya AM, et al. **Am J Rhinol** 1997 Mar-Apr;11(2):139–43

Haemophilus parainfluenzae infective endocarditis. Lee P, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):761–2 (12 ref.)

Changing bacteriology of periorbital cellulitis. Schwartz GR, et al. **Ann Emerg Med** 1996 Dec;28(6):617–20

Bacterial tracheitis: a case report. Wong KS, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):286–90

Haemophilus influenzae central corneal ulcer associated with cosmetic lens wear. Leahey AB, et al. **CLAO J** 1996 Jul; 22(3):213–4

Rhabdomyolysis and acute renal failure associated with meningitis and sepsis due to Haemophilus influenzae: case report [letter; comment] Benedetti P, et al. **Clin Infect Dis** 1997 Mar;24(3):533–4. Comment on: Clin Infect Dis 1996 Apr;22(4):642–9.

Endocarditis due to Haemophilus influenzae serotype f. Frayha HH, et al. **Clin Infect Dis** 1996 Aug;23(2):401–2

Pott's puffy tumor due to Haemophilus influenzae: case report and review. Verbon A, et al. **Clin Infect Dis** 1996 Dec;23(6):1305–7 (15 ref.)

Invasive Haemophilus influenzae in the Republic of Ireland. Moloney AC, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):377–80

Modified latex agglutination test for rapid detection of Streptococcus pneumoniae and haemophilus influenzae in cerebrospinal fluid and direct serotyping of Streptococcus pneumoniae. Singhal A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):472–7

Detection of Haemophilus influenzae and Streptococcus pneumoniae DNA in blood culture by a single PCR assay. Hassan-King M, et al. **J Clin Microbiol** 1996 Aug; 34(8):2030–2

Comparison of four different sampling methods for detecting pharyngeal carriage of Streptococcus pneumoniae and Haemophilus influenzae in children. Rapola S, et al. **J Clin Microbiol** 1997 May;35(5):1077–9

Haemophilus influenzae adherent to contact lenses associated with production of acute ocular inflammation. Sankaridurg PR, et al. **J Clin Microbiol** 1996 Oct;34(10):2426–31

Relationship between nasopharyngeal colonization and the development of otitis media in children. Tonawanda/Williamsville Pediatrics. Faden H, et al. **J Infect Dis** 1997 Jun;175(6):1440–5

Microbiology and management of sinusitis. Brook I. **J Otolaryngol** 1996 Aug;25(4):249–56 (44 ref.)

Immunoglobulin- and complement-coated bacteria in effusions obtained during the early course of acute maxillary sinusitis. Rantala H, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May-Jun; 58(3):151–6

Middle ear mucin glycoprotein: purification and interaction with nontypable Haemophilus influenzae and Moraxella catarrhalis. Reddy MS, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):175–80

Aerobic and anaerobic microbiology of bacterial tracheitis in children. Brook I. **Pediatr Emerg Care** 1997 Feb; 13(1):16–8

Microbiology of recurrent parotitis. Giglio MS, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):386–90

Incidence of H. influenzae in a day-care center. Akçakaya N, et al. **Turk J Pediatr** 1996 Jul-Sep;38(3):289–93

Modulation of antigen-specific T and B cell responses influence bacterial clearance of non-typeable Haemophilus influenzae from the lung in a rat model. Kyd JM, et al. **Vaccine** 1996 Oct;14(15):1471–8

[Nasopharyngeal flora and carriage rates of Haemophilus influenzae type b of healthy infants] Asahi E, et al. **Kansenshogaku Zasshi** 1997 Mar;71(3):236–40 (Eng. Abstr.) **(Jpn)**

[A clinical study of chronic lower respiratory infection with Haemophilus influenza by transtracheal aspiration] Tsujimoto M, et al. **Kansenshogaku Zasshi** 1996 Sep; 70(9):947–54 (Eng. Abstr.) **(Jpn)**

[A clinical features of acute respiratory infection with Haemophilus influenzae by transtracheal aspiration] Tsujimoto M, et al. **Kansenshogaku Zasshi** 1996 Aug; 70(8):808–14 (Eng. Abstr.) **(Jpn)**

[Aspergillosis of maxillary sinus: a case report] Landa Aranzábal M, et al. **Acta Otorrinolaringol Esp** 1996 Jul-Aug;47(4):321–4 (Eng. Abstr.) **(Spa)**

[Pneumonia due to Haemophilus influenzae type b in children: presentation of 24 cases] Otero Reigada MC, et al. **An Esp Pediatr** 1996 Oct;45(4):380–5 (62 ref.) (Eng. Abstr.) **(Spa)**

[Usefulness of the rapid diagnosis of Haemophilus influenzae in respiratory samples (letter)] Colomina J, et al. **Arch Bronconeumol** 1996 Dec;32(10):550 **(Spa)**

[Meningitis caused by non-serotypable Haemophilus influenzae, biotype V (letter)] Ferreruela RM, et al. **Enferm Infecc Microbiol Clin** 1997 Mar;15(3):168–9 **(Spa)**

[Maternal-fetal vertical transmission of Haemophilus influenzae and Haemophilus parainfluenzae] García E, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):65–9 (Eng. Abstr.) **(Spa)**

METABOLISM

The effect of antibiotic treatment on the release of endotoxin during nontypable Haemophilus influenzae-induced otitis media in the chinchilla. Jauris-Heipke S, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):109–12

Metabolism and evolution of Haemophilus influenzae deduced from a whole-genome comparison with Escherichia coli. Tatusov RL, et al. **Curr Biol** 1996 Mar 1;6(3):279–91

Elemental iron does repress transferrin, haemopexin and haemoglobin receptor expression in Haemophilus influenzae. Hasan AA, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):19–26

Brief heat shock treatment induces a long-lasting alteration in the glycolipid receptor binding specificity and growth rate of Haemophilus influenzae. Hartmann E, et al. **Infect Immun** 1997 May;65(5):1729–33

Selective adherence of non-typeable Haemophilus influenzae (NTHi) to mucus or epithelial cells in the chinchilla eustachian tube and middle ear. Miyamoto N, et al. **Microb Pathog** 1996 Nov;21(5):343–56

Use of the complete genome sequence information of Haemophilus influenzae strain Rd to investigate lipopolysaccharide biosynthesis. Hood DW, et al. **Mol Microbiol** 1996 Dec;22(5):951–65

Role of pili in Haemophilus influenzae adherence to, and internalization by, respiratory cells. Gilsdorf JR, et al. **Pediatr Res** 1996 Feb;39(2):343–8

Expression, purification, and functional analysis of the TyrR protein of Haemophilus influenzae. Zhu Q, et al. **Protein Expr Purif** 1997 Jul;10(2):237–46

Life in mucus: sugar metabolism in Haemophilus influenzae. Macfadyen LP, et al. **Res Microbiol** 1996 Jul-Sep; 147(6-7):541–51 (49 ref.)

PATHOGENICITY

PCR-based detection of bacterial DNA after antimicrobial treatment is indicative of persistent, viable bacteria in the chinchilla model of otitis media. Post JC, et al. **Am J Otolaryngol** 1996 Mar-Apr;17(2):106–11

Invasive infections due to Haemophilus influenzae serotype f (Hif)—is Hif an emerging pathogen? [editorial; comment] Ward JI. **Clin Infect Dis** 1996 Jun;22(6):1077–8. Comment on: Clin Infect Dis 1996 Jun;22(6):1069–76.

The nasopharyngeal bacterial flora in children with otitis media with effusion [see comments] Fujimori I, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):260–3. Comment in: Eur Arch Otorhinolaryngol 1997;254(1):19. Comment in: Eur Arch Otorhinolaryngol 1997;254(2):113.

Specific binding of Haemophilus influenzae to minor gangliosides of human respiratory epithelial cells. Fakih MG, et al. **Infect Immun** 1997 May;65(5):1695–700

Risk factors for invasive Haemophilus influenzae disease among children 2–16 years of age in the vaccine era, Switzerland 1991–1993. The Swiss H. Influenzae Study Group. Mühlemann K, et al. **Int J Epidemiol** 1996 Dec; 25(6):1280–5

Expression of capsules by Haemophilus influenzae in mixed infections [letter; comment] Jordens JZ, et al. **J Infect** 1996 Jul;33(1):65–6. Comment on: J Infect 1995 May;30(3):219–22.

Adherence of non-typeable Haemophilus influenzae promotes reorganization of the actin cytoskeleton in human or chinchilla epithelial cells in vitro. Holmes KA, et al. **Microb Pathog** 1997 Sep;23(3):157–66

The effect of mutations in genes required for lipopolysaccharide synthesis on Haemophilus influenzae type b colonization of human nasopharyngeal tissue. Jackson AD, et al. **Microb Pathog** 1996 Dec;21(6):463–70

Haemophilus virulence. Sharples GJ. **Microbiology** 1996 Apr; 142 (Pt 4):717

Influence of pili, fibrils, and capsule on in vitro adherence by Haemophilus influenzae type b. St. Geme JW 3rd, et al. **Mol Microbiol** 1996 Jul;21(1):21–31

Acute otitis media. Maxson S, et al. **Pediatr Rev** 1996 Jun; 17(6):191–5; quiz 196 (18 ref.)

DNA repeats identify novel virulence genes in Haemophilus influenzae. Hood DW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11121–5

[Haemophilus influenzae disease in childhood. Comment about case reports of meningitis] Ranno O, et al. **Minerva Pediatr** 1996 Jun;48(6):235–44 (Eng. Abstr.) **(Ita)**

[Neurological complications of meningitis by Haemophilus influenzae. Letter] Lobera Gutiérrez de Pando E, et al. **Rev Neurol** 1997 Jan;25(137):142 **(Spa)**

PHYSIOLOGY

Molecular determinants of the interaction between Haemophilus influenzae and human cells. Geme JW 3rd. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S192–6 (54 ref.)

Aspects on the interaction of Streptococcus pneumoniae and Haemophilus influenzae with human respiratory tract mucosa. Håkansson A, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 2):S187–91

Haemophilus influenzae and Streptococcus pneumoniae induce different intracerebral mRNA cytokine patterns during the course of experimental bacterial meningitis. Diab A, et al. **Clin Exp Immunol** 1997 Aug;109(2):233–41

Bacterial-induced release of inflammatory mediators by bronchial epithelial cells. Khair OA, et al. **Eur Respir J** 1996 Sep;9(9):1913–22 (91 ref.)

Role of pili in Haemophilus influenzae adherence and colonization. Gilsdorf JR, et al. **Infect Immun** 1997 Aug; 65(8):2997–3002 (75 ref.)

Brief heat shock treatment induces a long-lasting alteration in the glycolipid receptor binding specificity and growth rate of Haemophilus influenzae. Hartmann E, et al. **Infect Immun** 1997 May;65(5):1729–33

Influence of pili, fibrils, and capsule on in vitro adherence by Haemophilus influenzae type b. St. Geme JW 3rd, et al. **Mol Microbiol** 1996 Jul;21(1):21–31

Haemophilus influenzae pili are composite structures assembled via the HifB chaperone. St. Geme JW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11913–8

ULTRASTRUCTURE

Haemophilus influenzae pili are composite structures assembled via the HifB chaperone. St. Geme JW, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11913–8

VIROLOGY

Purification and characterization of the integrase from the Haemophilus influenzae bacteriophage HP1; identification of a four-stranded intermediate and the order of strand exchange. Hakimi JM, et al. **Mol Microbiol** 1996 Jul; 21(1):147-58

Reciprocal regulation of the early promoter region of bacteriophage HP1 by the Cox and Cl proteins. Esposito D, et al. **Virology** 1997 Aug 4;234(2):267-76

HAEMOPHILUS PERTUSSIS see **BORDETELLA PERTUSSIS**

HAEMOPHILUS PLEUROPNEUMONIAE see **ACTINOBACILLUS PLEUROPNEUMONIAE**

HAEMOPHILUS VACCINES

Pneumococcal pneumonia and influenza vaccination: access to and use by US Hispanic Medicare beneficiaries. Mark TL, et al. **Am J Public Health** 1996 Nov;86(11):1545-50

Progress towards a vaccine for nontypable Haemophilus influenzae. St. Geme JW 3rd. **Ann Med** 1996 Feb;28(1):31-7 (64 ref.)

Italians ban Hib vaccine in BSE scare [news] McKenzie K. **BMJ** 1997 Feb 8;314(7078):397

Failures after immunization with Haemophilus influenzae type b vaccines--1991-1995. Scheifele D, et al. **Can Commun Dis Rep** 1996 Feb 1;22(3):17-20, 23

Invasive infections due to Haemophilus influenzae serotype f (Hif)--is Hif an emerging pathogen? [editorial; comment] Ward JI. **Clin Infect Dis** 1996 Jun;22(6):1077-8. Comment on: Clin Infect Dis 1996 Jun;22(6):1069-76.

Analysis of the prevaccine population of noncapsulate Haemophilus influenzae and identification of a putative epidemic clone. Leaves NI, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):410-4

Evidence for induction of polysaccharide specific B-cell-memory in the 1st year of life: plain Haemophilus influenzae type b-PRP (Hib) boosters children primed with a tetanus-conjugate Hib-DTPa-HBV combined vaccine. Zepp F, et al. **Eur J Pediatr** 1997 Jan;156(1):18-24

Immunity to Haemophilus influenzae type b polysaccharide capsule after vaccination with the complete series of oligosaccharide CRM197 conjugate vaccine in infants with human immunodeficiency virus infection. Peters VB, et al. **J Pediatr** 1996 Mar;128(3):363-5

From the Centers for Disease Control and Prevention. FDA approval of a haemophilus b conjugate vaccine combined by reconstitution with an acellular pertussis vaccine. **JAMA** 1997 Jan 1;277(1):13

From the Centers for Disease Control and Prevention. FDA approval for infants of a Haemophilus influenzae type b conjugate and hepatitis B (recombinant) combined vaccine. **JAMA** 1997 Feb 26;277(8):620-1

From the Centers for Disease Control and Prevention. Progress toward elimination of Haemophilus influenzae type b disease among infants and children--United States, 1987-1995. **JAMA** 1996 Nov 20;276(19):1542, 1544

The 1996 Albert Lasker Medical Research Awards. Prevention of systemic infections, especially meningitis, caused by Haemophilus influenzae type b. Impact on public health and implications for other polysaccharide-based vaccines. Robbins JB, et al. **JAMA** 1996 Oct 9; 276(14):1181-5

Haemophilus influenzae type b vaccination [letter; comment] Dominguez A, et al. **Lancet** 1997 Jul 19;350(9072):222. Comment on: Lancet 1997 Apr 26;349(9060):1186-7.

Haemophilus influenzae type b vaccination [letter; comment] Melhus A, et al. **Lancet** 1997 Jul 19;350(9072):222. Comment on: Lancet 1997 Apr 26;349(9060):1186-7.

Randomised trial of Haemophilus influenzae type-b tetanus protein conjugate vaccine [corrected] for prevention of pneumonia and meningitis in Gambian infants [see comments] [published erratum appears in Lancet 1997 Aug 16;350(9076):524] Mulholland K, et al. **Lancet** 1997 Apr 26;349(9060):1191-7. Comment in: Lancet 1997 Apr 26;349(9060):1186-7.

Haemophilus influenzae type b infections are preventable everywhere [comment] [see comments] Steinhoff MC. **Lancet** 1997 Apr 26;349(9060):1186-7. Comment on: Lancet 1997 Apr 26;349(9060):1191-7. Comment on: Lancet 1997 Apr 26;349(9060):1197-202. Comment in: Lancet 1997 Jul 19;350(9072):222.

Progress toward elimination of Haemophilus influenzae type b disease among infants and children--United States, 1987-1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 25; 45(42):901-6

FDA approval of a Haemophilus b Conjugate Vaccine combined by reconstitution with an acellular pertussis vaccine. **MMWR Morb Mortal Wkly Rep** 1996 Nov 15; 45(45):993-5

FDA approval for infants of a Haemophilus influenzae type b conjugate and hepatitis B (recombinant) combined vaccine. **MMWR Morb Mortal Wkly Rep** 1997 Feb 7; 46(5):107-9

Haemophilus influenzae type b. **Nurse Pract** 1996 Aug; 21(8):96, 99-100

Haemophilus influenzae type b meningitis in a fully immunized child with a cerebrospinal fluid shunt. alMohsen I, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):706-8

ADMINISTRATION & DOSAGE

Combined diphtheria, tetanus, pertussis, and Haemophilus influenzae type b vaccines for primary immunisation. Bell F, et al. **Arch Dis Child** 1996 Oct;75(4):298-303

A comparison of early and late vaccination with Haemophilus influenzae type b conjugate and pneumococcal polysaccharide vaccines after allogeneic BMT. Parkkali T, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):961-7

Multiple concurrent childhood immunization [letter] Booy R. **Br J Gen Pract** 1996 Feb;46(403):121

Evidence for transudation of specific antibody into the middle ears of parenterally immunized chinchillas after an upper respiratory tract infection with adenovirus. Bakaletz LO, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):223-5

Surveillance of invasive Haemophilus influenzae infections in children. **Commun Dis Rep CDR Wkly** 1997 Mar 28; 7(13):109

Evaluation of immunogenicity and tolerance of single dose haemophilus influenzae type B (PRP-T) vaccine. Acharya D, et al. **Indian Pediatr** 1995 Oct;32(10):1077-82

Haemophilus influenzae type b vaccine in India: need and timing, immunogenecity and tolerance. Acharya D, et al. **Indian Pediatr** 1997 Jan;34(1):9-15

Risk factors for invasive Haemophilus influenzae disease among children 2-16 years of age in the vaccine era, Switzerland 1991-1993. The Swiss H. Influenzae Study Group. Mühlemann K, et al. **Int J Epidemiol** 1996 Dec; 25(6):1280-5

Effect of Haemophilus influenzae type b conjugate vaccine in combination with peroral immunization with Escherichia coli on experimental otitis media. Melhus A, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jun;36(1):1-12

No adverse impact on protection against pertussis from combined administration of Haemophilus influenza type b conjugate and diphtheria-tetanus toxoid-pertussis vaccines in the same syringe. Levine OS, et al. **J Infect Dis** 1996 Dec;174(6):1341-4

Are Hib booster vaccinations redundant? [letter; comment] Böhm O, et al. **Lancet** 1997 Jul 5;350(9070):68. Comment on: Lancet 1997 Apr 26;349(9060):1197-202.

Vaccine failures after primary immunisation with Haemophilus influenzae type-b conjugate vaccine without booster [see comments] [published erratum appears in Lancet 1997 May 31;349(9065):1630] Booy R, et al. **Lancet** 1997 Apr 26;349(9060):1197-202. Comment in: Lancet 1997 Apr 26;349(9060):1186-7. Comment in: Lancet 1997 Jul 5;350(9070):68.

Are Hib booster vaccinations redundant? [letter] Heath PT, et al. **Lancet** 1997 Sep 13;350(9080):817

Data management for an efficacy trial of a vaccine in the Gambia. Lahai GP, et al. **Methods Inf Med** 1997 Aug; 36(3):214-20

Pertussis vaccination: use of acellular pertussis vaccines among infants and young children. Recommendations of the Advisory Committee on Immunization Practices (ACIP). **MMWR Morb Mortal Wkly Rep** 1997 Mar 28; 46(RR-7):1-25

Recommendations for the use of Haemophilus influenzae type b vaccines among children in the United States. Bisgard KM, et al. **Pediatr Ann** 1997 Jun;26(6):361-5 (27 ref.)

Persistence of antibody responses to Haemophilus influenzae type b polysaccharide conjugate vaccine in children with vertically acquired human immunodeficiency virus infection. Gibb D, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1097-101

Inactivated poliovirus vaccine alone or sequential inactivated and oral poliovirus vaccine in two-, four- and six-month-old infants with combination Haemophilus influenzae type b/hepatitis B vaccine. Halsey NA, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):675-9

Interchangeability of Haemophilus influenzae type b vaccines in the primary series: evaluation of a two-dose mixed regimen. Bewley KM, et al. **Pediatrics** 1996 Nov; 98(5):898-904

Serum antibodies against haemophilus influenzae type b and tetanus at 2.5 years of age: a follow-up of 2 different regimens of infant vaccination. Carlsson RM, et al. **Scand J Infect Dis** 1996;28(5):519-23

The impact of Haemophilus influenzae type b vaccination in Sweden. Garpenholt O, et al. **Scand J Infect Dis** 1996; 28(2):165-9

Study of booster doses of two Haemophilus influenzae type b conjugate vaccines including their interchangeability. Scheifele D, et al. **Vaccine** 1996 Oct;14(15):1399-406

[Trial of prevention of severe Haemophilus influenzae type b infections and trial of tolerance, after PRP-T vaccination, in the Val-de-Marne region] Boucher J, et al. **Arch Pediatr** 1996 Aug;3(8):775-81 (Eng. Abstr.) **(Fre)**

[Vaccination against Haemophilus influenzae B (letter)] Szabó V, et al. **Orv Hetil** 1996 Nov 10;137(45):2547-8 **(Hun)**

[Anti-hepatitis B and anti-Haemophilus influenzae type b vaccines] Dias PG. **Acta Med Port** 1997 Feb-Mar; 10(2-3):129-38 (162 ref.) (Eng. Abstr.) **(Por)**

[Good effect of general HIB vaccination of children (letter)] Garpenholt O, et al. **Lakartidningen** 1997 Jan 15;94(3):113 **(Swe)**

[A caution! Vaccines don't protect completely against acute epiglottitis] Spandow O, et al. **Lakartidningen** 1996 Oct 30;93(44):3927-8 **(Swe)**

ADVERSE EFFECTS

No adverse impact on protection against pertussis from combined administration of Haemophilus influenza type b conjugate and diphtheria-tetanus toxoid-pertussis vaccines in the same syringe. Levine OS, et al. **J Infect Dis** 1996 Dec;174(6):1341-4

Apnea after immunization of preterm infants. Sánchez PJ, et al. **J Pediatr** 1997 May;130(5):746-51

Immunogenicity and safety of a liquid combination of DT-PRP-T vs lyophilized PRP-T reconstituted with DTP. Amir J, et al. **Vaccine** 1997 Feb;15(2):149-54

Safety and immunogenicity of an acellular pertussis diphtheria tetanus vaccine given as a single injection with Haemophilus influenzae b conjugate vaccine. Halperin SA, et al. **Vaccine** 1997 Feb;15(3):295-300

Phase I study of the immunogenicity and safety of conjugated Hemophilus influenzae type b vaccines in the elderly. Kantor E, et al. **Vaccine** 1997 Feb;15(2):129-32

Safety of Haemophilus influenzae conjugate vaccine in children born to HIV-1 infected mothers: Kigali (Rwanda), 1992-1994 [letter] Leroy V, et al. **Vaccine** 1996 Feb; 14(2):177-8

[Type b Haemophilus influenzae meningitis after 2 doses of conjugated vaccine] Moral Gil L, et al. **An Esp Pediatr** 1996 Dec;45(6):645-6 **(Spa)**

CHEMISTRY

Stability testing in Haemophilus influenzae type b conjugate vaccines. Klug B. **Dev Biol Stand** 1996;87:263-7

Comparison of the diphtheria mutant toxin, CRM197, with a Haemophilus influenzae type-b polysaccharide-CRM197 conjugate by optical spectroscopy. Crane DT, et al. **Eur J Biochem** 1997 Jun 1;246(2):320-7

Effect of lipid modification on the physicochemical, structural, antigenic and immunoprotective properties of Haemophilus influenzae outer membrane protein P6. Yang YP, et al. **Vaccine** 1997 Jun;15(9):976-87

CLASSIFICATION

Vaccination against colonizing bacteria with multiple serotypes. Lipsitch M. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6571-6

ECONOMICS

Cost-effectiveness evaluation of vaccination against Haemophilus influenzae invasive diseases in France. Livartowski A, et al. **Vaccine** 1996 Apr;14(6):495-500

IMMUNOLOGY

The immunogenicity of three Haemophilus influenzae type B conjugate vaccines after a primary vaccination series in Philippine infants. Capeding MR, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):516-20

Local and systemic antibody levels against protein D of Haemophilus influenzae following immunization and infection in rats. Akkoyunlu M, et al. **APMIS** 1996 Oct; 104(10):709-17

Antibody responses to Haemophilus influenzae type b conjugate vaccine in sickle cell disease. Goldblatt D, et al. **Arch Dis Child** 1996 Aug;75(2):159-61

Antibody response of Mexican infants to Haemophilus influenzae type b capsular polyribosylribitol phosphate. Differences between natural and vaccine induced (oligosaccharide-CRM197 conjugated vaccine) immunization. Massó F, et al. **Arch Med Res** 1996 Winter; 27(4):539-45

Haemophilus influenzae type b (HIB)-conjugate immunization before bone marrow harvest in autologous bone marrow transplantation. Molrine DC, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1149-55

Conjugate vaccines and the carriage of Haemophilus influenzae type b. Barbour ML. **Emerg Infect Dis** 1996 Jul-Sep;2(3):176-82 (55 ref.)

The baboon as a nonhuman primate model for assessing the effects of maternal immunization with Haemophilus influenzae type b polysaccharide vaccines. Shearer MH, et al. **Infect Immun** 1997 Aug;65(8):3267-70

Molecular characteristics of Haemophilus influenzae causing invasive disease during the period of vaccination in Switzerland: analysis of strains isolated between 1986 and 1993. Muhlemann K, et al. **J Clin Microbiol** 1996 Mar; 34(3):560-3

Safety and immunogenicity of a conjugated Haemophilus influenzae type B polysaccharide-Neisseria meningitidis outer membrane protein vaccine. Yeh SJ, et al. **J Formos Med Assoc** 1997 Feb;96(2):110-5

The progeny of a single virgin B cell predominates the human recall B cell response to the capsular polysaccharide of Haemophilus influenzae type b. Barington T, et al. **J Immunol** 1996 Nov 1;157(9):4016-27

Infant immunization with pneumococcal CRM197 vaccines: effect of saccharide size on immunogenicity and interactions with simultaneously administered vaccines. Daum RS, et al. **J Infect Dis** 1997 Aug;176(2):445-55

Analysis of Haemophilus influenzae type B conjugate and diphtheria-tetanus-pertussis combination vaccines. Eskola J. **J Infect Dis** 1996 Nov;174 Suppl 3:S302-5

The immunogenicity of Haemophilus influenzae: meningococcal protein conjugate vaccine in Polynesian and non-Polynesian New Zealand infants. Ameratunga SN, et

al. **J Paediatr Child Health** 1997 Apr;33(2):138–41

The 1996 Albert Lasker Medical Research Awards. Prevention of systemic infections, especially meningitis, caused by Haemophilus influenzae type b. Impact on public health and implications for other polysaccharide–based vaccines. Robbins JB, et al. **JAMA** 1996 Oct 9; 276(14):1181–5

Randomised trial of the effect of co–administration with acellular pertussis DTP vaccine on immunogenicity of Haemophilus influenzae type b conjugate vaccine [see comments] Eskola J, et al. **Lancet** 1996 Dec 21–28; 348(9043):1688–92. Comment in: Lancet 1997 Mar 22;349(9055):881–2.

Immunogenicity and safety of mixed DTP/IPV/Hib vaccines [letter; comment] Schneerson R. **Lancet** 1997 Mar 22; 349(9055):881–2. Comment on: Lancet 1996 Dec 21–28;348(9043):1688–92.

Immunogenicity and reactogenicity of a booster dose of diphtheria, tetanus, acellular pertussis and inactivated poliomyelitis vaccines given concurrently with Haemophilus type b conjugate vaccine or as pentavalent vaccine. Bégué P, et al. **Pediatr Infect Dis J** 1997 Aug; 16(8):787–94

Serum antibodies in six–year–old children vaccinated in infancy with a Haemophilus influenzae type b–tetanus toxoid conjugate vaccine. Claesson BA, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):170–2

Antibody response to Haemophilus influenzae type b capsular polysaccharide conjugated to tetanus toxoid in preterm infants. Kristensen K, et al. **Pediatr Infect Dis J** 1996 Jun; 15(6):525–9

Large scale, postlicensure, selective vaccination of Chilean infants with PRP–T conjugate vaccine: practicality and effectiveness in preventing invasive Haemophilus influenzae type b infections. Lagos R, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):216–22

Immunity to Haemophilus influenzae type b after reimmunization with oligosaccharide CRM197 conjugate vaccine in children with human immunodeficiency virus infection. Peters VB, et al. **Pediatr Infect Dis J** 1997 Jul; 16(7):711–3

Safety and immunogenicity of a bivalent Haemophilus influenzae type b/hepatitis B vaccine in healthy infants. Hib–HB Vaccine Study Group. West DJ, et al. **Pediatr Infect Dis J** 1997 Jun;16(6):593–9

Invasive Haemophilus influenzae disease and epiglottitis among Swiss children from 1980 to 1993: evidence for herd immunity among older age groups. The Swiss Haemophilus Influenzae Study Group. Mühlemann K, et al. **Scand J Infect Dis** 1996;28(3):265–8

Immunogenicity and safety of a liquid combination of DT–PRP–T vs lyophilized PRP–T reconstituted with DTP. Amir J, et al. **Vaccine** 1997 Feb;15(2):149–54

Relative immunogenicity and efficacy of two synthetic chimeric peptides of fimbrin as vaccinogens against nasopharyngeal colonization by nontypeable Haemophilus influenzae in the chinchilla. Bakaletz LO, et al. **Vaccine** 1997 Jun;15(9):955–61

Safety and immunogenicity of an acellular pertussis diphtheria tetanus vaccine given as a single injection with Haemophilus influenzae b conjugate vaccine. Halperin SA, et al. **Vaccine** 1997 Feb;15(3):295–300

Phase I study of the immunogenicity and safety of conjugated Hemophilus influenzae type b vaccines in the elderly. Kantor E, et al. **Vaccine** 1997 Feb;15(2):129–32

Priming with diphtheria–tetanus–pertussis vaccine enhances the response to the Haemophilus influenzae type b tetanus conjugate vaccine in infancy. Kurikka S. **Vaccine** 1996 Sep; 14(13):1239–42

Factors associated with superior antibody responses to a single dose of Haemophilus influenzae type b–tetanus toxoid conjugate vaccine administered to Chilean infants at 2 months of age. Levine OS, et al. **Vaccine** 1997 Feb; 15(3):325–8

Cost–effectiveness evaluation of vaccination against Haemophilus influenzae invasive diseases in France. Livartowski A, et al. **Vaccine** 1996 Apr;14(6):495–500

Immunogenicity and safety of Haemophilus influenzae type b polysaccharide–Neisseria meningitidis conjugate vaccine in 7.5 micrograms liquid formulation: a comparison of three lots with the 15.0 micrograms lyophilized formulation. Study Group for 7.5 micrograms Liquid PedvaxHIB. Mendelman PM, et al. **Vaccine** 1997 Apr–May; 15(6–7):775–81

The use of Haemophilus influenzae type b–tetanus toxoid conjugate vaccine mixed with diphtheria–tetanus–pertussis vaccine in Gambian infants. Mulholland EK, et al. **Vaccine** 1996 Jun;14(9):905–9

Association of placental transfer of anti–Haemophilus influenzae type b polysaccharide antibodies with their V regions. Park MK, et al. **Vaccine** 1996 Sep;14(13):1219–22

Effect of lipid modification on the physicochemical, structural, antigenic and immunoprotective properties of Haemophilus influenzae outer membrane protein P6. Yang YP, et al. **Vaccine** 1997 Jun;15(9):976–87

[Morbidity caused by Haemophilus influenzae type B and the vaccinal prevention of this infection] Demina AA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):99–104 (47 ref.) **(Rus)**

THERAPEUTIC USE

Effect of Haemophilus influenzae type b conjugate vaccine in combination with peroral immunization with Escherichia coli on experimental otitis media. Melhus A, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jun;36(1):1–12

Decline of pediatric admissions with Haemophilus influenzae type b in New York State, 1982 through 1993: relation to immunizations. Liptak GS, et al. **J Pediatr** 1997 Jun; 130(6):923–30

Modulation of antigen–specific T and B cell responses influence bacterial clearance of non–typeable Haemophilus influenzae from the lung in a rat model. Kyd JM, et al. **Vaccine** 1996 Oct;14(15):1471–8

[Serum antibodies against Haemophilus influenzae in children from the province of Valladolid (Spain)] Blanco Quirós A, et al. **An Esp Pediatr** 1996 Nov;45(5):487–92 (Eng. Abstr.) **(Spa)**

[Comparative study of the protective role of the vaccine against Haemophilus influenzae type b and partial splenectomy in an experimental model] Pérez Maestu R, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):5–9 (Eng. Abstr.) **(Spa)**

HAEMOPHILUS VAGINALIS see **GARDNERELLA VAGINALIS**

HAEMOSPORINA

IMMUNOLOGY

Immunogenicity of Leucocytozoon caulleryi sporozoites and their reactivity with specific immune sera. Morii T, et al. **Parasitol Res** 1996;82(5):454–8

PATHOGENICITY

Pathogenicity of Leucocytozoon marchouxi in the pink pigeon (Columba mayeri) in Mauritius. Peirce MA, et al. **Vet Rec** 1997 Feb 8;140(6):155–6

PHYSIOLOGY

Pathogenesis of reduced egg production and soft–shelled eggs in laying hens associated with Leucocytozoon caulleryi infection. Nakamura K, et al. **J Parasitol** 1997 Apr;83(2):325–7

HAGEMAN FACTOR see **FACTOR XII**

HAGEMAN TRAIT see **FACTOR XII DEFICIENCY**

HAGFISH

ANATOMY & HISTOLOGY

Neuronal organization of the optic tectum in the hagfish, Eptatretus burgeri: a Golgi study. Iwahori N, et al. **Anat Embryol (Berl)** 1996 Mar;193(3):271–9

The brains of lampreys and hagfishes: characteristics, characters, and comparisons. Wicht H. **Brain Behav Evol** 1996;48(5):248–61 (86 ref.)

GENETICS

Evolution of insulin–like growth factor (IGF) function: production and characterization of recombinant hagfish IGF. Upton Z, et al. **Gen Comp Endocrinol** 1997 Jan; 105(1):79–90

Sperm nuclear basic proteins (SNBPs) of agnathans and chondrichthyans: variability and evolution of sperm proteins in fish. Saperas N, et al. **J Mol Evol** 1997 Apr; 44(4):422–31

The main features of the craniate mitochondrial DNA between the ND1 and the COI genes were established in the common ancestor with the lancelet. Delarbre C, et al. **Mol Biol Evol** 1997 Aug;14(8):807–13

METABOLISM

Electronic energy levels and hopping conductivity of an entire molecule of hagfish insulin. Jiang Y, et al. **Biophys Chem** 1996 Mar 7;59(1–2):95–105

HAILEY–HAILEY DISEASE see **PEMPHIGUS, BENIGN FAMILIAL**

HAIR

Further characterization of IgE–binding antigens in horse dander, with particular emphasis on glycoprotein allergens. Johnsen, et al. **Allergy** 1996 Sep;51(9):608–13

Expression of keratins (K10 and K17) in steatocystoma multiplex, eruptive vellus hair cysts, and epidermoid and trichilemmal cysts. Tomková H, et al. **Am J Dermatopathol** 1997 Jun;19(3):250–3

Facial hair and securing the endotracheal tube: a new method [letter] Khorasani A, et al. **Anesth Analg** 1996 Oct;83(4):886

"Tarantula eyes' [letter] Hung JC, et al. **Arch Dis Child** 1996 Nov;75(5):462–3

Vitrectomy for caterpillar seta–induced endophthalmitis [letter] Shibui H, et al. **Arch Ophthalmol** 1997 Apr; 115(4):555–6

A deep, linear, intracorneal foreign body. Lu Y, et al. **Aust N Z J Ophthalmol** 1997 Feb;25(1):81–2

Eye disease associated with handling pet tarantulas: three case reports. Blaikie AJ, et al. **BMJ** 1997 May 24; 314(7093):1524–5

Bears, academia, and anaesthesia: a controlled study. Curran J, et al. **BMJ** 1996 Dec 21–28;313(7072):1643–4

Cow dander: the most common cause of occupational contact urticaria in Finland. Kanerva L, et al. **Contact Dermatitis** 1996 Nov;35(5):309–10

Standardized hair photography. DiBernardo BE, et al. **Dermatol Surg** 1996 Nov;22(11):945–52

Hairline reconstruction utilizing modified winged V–plastic hair–bearing flaps and focal anastomotic line excisions. Field LM. **Dermatol Surg** 1996 Nov;22(11):937–40

Cartilage–hair hypoplasia syndrome: implications for prenatal diagnosis. Dungan JS, et al. **Fetal Diagn Ther** 1996 Nov–Dec;11(6):398–401

The significance of fibres found in head hair. Cook R, et al. **Forensic Sci Int** 1997 Jun 6;87(2):155–60

The sparse fur mouse as a model for gene therapy in ornithine carbamoyltransferase deficiency. Batshaw ML, et al. **Gene Ther** 1995 Dec;2(10):743–9

Mitochondrial DNA sequence variation across linguistic and geographic boundaries in Italy. Barbujani G, et al. **Hum Biol** 1996 Apr;68(2):201–15

New laparoscopic instrument for removing hair from ovarian dermoid cysts. Dabirashrafi H, et al. **J Am Assoc Gynecol Laparosc** 1994 May;1(3):269–70

Eye injury from tarantula. Waggoner TL, et al. **J Am Optom Assoc** 1997 Mar;68(3):188–90

Using multiplex PCR amplification and typing kits for the analysis of DNA evidence in a serial killer case. Hochmeister MN, et al. **J Forensic Sci** 1996 Jan; 41(1):155–62

Comparative study on the muscular load of the arms using hair driers. Harada H, et al. **J Hum Ergol (Tokyo)** 1995 Dec;24(2):183–92

Ophthalmia nodosa caused by tarantula hairs. Lasudry JG, et al. **J Pediatr Ophthalmol Strabismus** 1997 May–Jun; 34(3):197–8

'Pilonidal appendicitis' or 'the hair of the dog': an unusual case of foreign body perforation of the appendix. Miller GG, et al. **J Pediatr Surg** 1996 May;31(5):703

Heat–evoked vasodilatation in human hairy skin: axon reflexes due to low–level activity of nociceptive afferents. Magerl W, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):837–48

Gender determination of the Linne's two–toed sloth (Choloepus didactylus) using SRY amplified from hair. Murata K, et al. **J Vet Med Sci** 1996 Dec;58(12):1157–9

Atopic dermatitis in a child due to cow dander [letter] Szczepanski R, et al. **Lancet** 1997 Jul 12;350(9071):114–5

Hairwashing made easy. Fillion DN. **MCN Am J Matern Child Nurs** 1997 Sep–Oct;22(5):277

Multituberculate and other mammal hair recovered from Palaeogene excreta. Meng J, et al. **Nature** 1997 Feb 20; 385(6618):712–4

CO2 laser activation of nociceptive and non–nociceptive thermal afferents from hairy and glabrous skin. Towell AD, et al. **Pain** 1996 Jul;66(1):79–86

Hair whorl as an indicator of a mediastinal plexiform neurofibroma. Pivnick EK, et al. **Pediatr Dermatol** 1997 May–Jun;14(3):196–8

Index of suspicion. Hair tourniquet syndrome. Conners G. **Pediatr Rev** 1997 Aug;18(8):283, 285

An easy method for scalp injury dressing with the patient's own hair [letter] de la Cruz M. **Plast Reconstr Surg** 1997 Jun;99(7):2116–7

Hair as a filler material for reconstructive or cosmetic surgery. Kaakedjian G, et al. **Plast Reconstr Surg** 1997 Feb; 99(2):443–7

Symptomatic urethral hair ball and diverticulum complicating island flap urethroplasty. Crew JP, et al. **Scand J Urol Nephrol** 1996 Jun;30(3):231–3

An improved method for the preparation of combs for use in hair combing kits. Griffin RM, et al. **Sci Justice** 1997 Apr–Jun;37(2):109–11

Hair as the nidus of a bladder stone in a traumatic paraplegic patient [letter] Vaidyanathan S, et al. **Spinal Cord** 1997 Aug; 35(8):558

Effect of simulated rain, coat length and exposure to natural climatic conditions on the efficacy of a topical formulation of eprinomectin against endoparasites of cattle. Gogolewski RP, et al. **Vet Parasitol** 1997 Apr;69(1–2):95–102

[Basic research and clinical applications of the human hair suture] Yan R, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):200–2 (Eng. Abstr.) **(Chi)**

[Different threshold concentrations for sensitization by cattle hair allergen Bos d 2 in atopic and non–atopic farmers] Hinze S, et al. **Pneumologie** 1996 Feb;50(2):177–81 (Eng. Abstr.) **(Ger)**

[Hair diseases: diagnosis and therapy] Trüeb RM. **Schweiz Rundsch Med Prax** 1997 Jun 4;86(23):977–8 **(Ger, Fre)**

[Predetermined epilations on the fixed areas of the face and forehead in a Tfm strain of mouse] Yamamoto M. **Kaibogaku Zasshi** 1997 Apr;72(2):141–9 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Mental retardation, postaxial polydactyly, phalangeal hypoplasia, 2–3 toe syndactyly, unusual face, uncombable hair: new syndrome? Kozlowski K, et al. **Am J Med Genet** 1997 Jan 20;68(2):142–6

The typical 'tiger tail' pattern of the hair shaft in

trichothiodystrophy may not be evident at birth [letter] Brusasco A, et al. **Arch Dermatol** 1997 Feb;133(2):249
Congenital curly haircoat as a symptom of persistent infection with bovine virus diarrhoea virus in calves. Larsson B, et al. **Arch Virol Suppl** 1991;3:143–8
Pili bifurcati: occurring in association with the mosaic trisomy 8 syndrome [letter] Breslau-Siderius LJ, et al. **Clin Dysmorphol** 1996 Jul;5(3):275–7
Craniofacial morphology of the tricho-dento-osseous syndrome. Kula K, et al. **Clin Genet** 1996 Dec;50(6):446–54
Diagnosis of trichothiodystrophy in 2 siblings. Bracun R, et al. **Dermatology** 1997;194(1):74–6
Scarring folliculitis in the ectrodactyly-ectodermal dysplasia-clefting syndrome. Histologic, scanning electron-microscopic and biophysical studies of hair. Trüeb RM, et al. **Dermatology** 1997;194(2):191–4
A mutation in endothelin-B receptor gene causes myenteric aganglionosis and coat color spotting in rats. Kunieda T, et al. **DNA Res** 1996 Apr 30;3(2):101–5
Hair abnormality of Fabry disease. Tabata H, et al. **Int J Dermatol** 1996 Aug;35(8):576–8
Lanceolate hair (lah): a recessive mouse mutation with alopecia and abnormal hair. Montagutelli X, et al. **J Invest Dermatol** 1996 Jul;107(1):20–5
Evidence for genetic heterogeneity in monilethrix. Richard G, et al. **J Invest Dermatol** 1996 Dec;107(6):812–4
A Scottish family with Bazex-Dupré-Christol syndrome: follicular atrophoderma, congenital hypotrichosis, and basal cell carcinoma. Kidd A, et al. **J Med Genet** 1996 Jun;33(6):493–7
Hair abnormalities in Alzheimer's disease [letter] de Berker D, et al. **Lancet** 1997 Jul 5;350(9070):34
Monilethrix: a review and case report. Carreras D. **Pediatr Dent** 1996 Jul-Aug;18(4):331–3 (10 ref.)
Severe congenital generalized exfoliative erythroderma in newborns and infants: a possible sign of Netherton syndrome. Hausser I, et al. **Pediatr Dermatol** 1996 May-Jun;13(3):183–99
Unilateral localized failure of beard growth. Núñez M, et al. **Pediatr Dermatol** 1996 Mar-Apr;13(2):143–5
Photocarcinogenesis and inhibition of intercellular adhesion molecule 1 expression in cells of DNA-repair-defective individuals. Ahrens C, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6837–41
Tricho-rhino-phalangeal syndrome type I. Eroğlu Y, et al. **Turk J Pediatr** 1996 Oct-Dec;38(4):537–42
[Hair shaft anomalies] Itin PH. **Schweiz Rundsch Med Prax** 1997 Jun 4;86(23):982–6 (33 ref.) (Eng. Abstr.) **(Ger)**
[Neurocutaneous syndrome with hair alterations] Camacho-Martínez F. **Rev Neurol** 1997 Sep;25 Suppl 3:S243–9 (51 ref.) (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Hair distribution on the phalanges of the hand among Kanuris and Baburs/Buras of north-eastern Nigeria. Mbajiorgu FE, et al. **Acta Anat (Basel)** 1996;157(4):324–9
Distribution of hair on the dorsum of the phalanges of the hand in a Chinese population from Malaysia. Dharap AS, et al. **Anthropol Anz** 1996 Dec;54(4):311–6
The cross-sectional size and shape of human terminal scalp hair. Hutchinson PE, et al. **Br J Dermatol** 1997 Feb; 136(2):159–65
Hair: its structure and response to cosmetic preparations. Dawber R. **Clin Dermatol** 1996 Jan-Feb;14(1):105–12 (36 ref.)
Remarks on specific adaptive scale structure of the hair cuticle in some European bats. Meyer W, et al. **Eur J Morphol** 1995 Nov;33(5):509–13
Morphology and histochemistry of human hair. Swift JA. **EXS** 1997;78:149–75 (59 ref.)

CHEMISTRY

A double-blind comparison of levels of terbinafine and itraconazole in plasma, skin, sebum, hair and nails during and after oral medication [letter] Faergemann J, et al. **Acta Derm Venereol** 1997 Jan;77(1):74–6
Stable isotope ratios indicate diet and habitat use in New World monkeys. Schoeninger MJ, et al. **Am J Phys Anthropol** 1997 May;103(1):69–83 (73 ref.)
Stable carbon and nitrogen isotopic composition of diet and hair of Gidra-speaking Papuans [published erratum appears in Am J Phys Anthropol 1996 Aug;100(4):611] Yoshinaga J, et al. **Am J Phys Anthropol** 1996 May;100(1):23–34
Cocaine use during pregnancy: sensitive detection by hair assay. Kline J, et al. **Am J Public Health** 1997 Mar; 87(3):352–8
Determination of ultratrace amounts of copper (II) by its catalytic effect on the oxidative coupling reaction of 3-methyl-2-benzothiazolinone hydrazone with N-ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxyaniline. Ohno S, et al. **Analyst** 1996 Oct; 121(10):1515–8
Testing human hair for clozapine [letter] Kintz P, et al. **Ann Biol Clin (Paris)** 1996;54(7):317–8
The measurement of morphine in the hair of heroin abusers. George S, et al. **Ann Clin Biochem** 1997 Jul;34 (Pt 4):375–83
Electrophoretic analysis of mammalian hair keratins. Folin M, et al. **Anthropol Anz** 1996 Dec;54(4):331–9
Mercury concentrations in hair from populations in Wau-Bulolo area, Papua New Guinea. Saeki K, et al. **Arch Environ Contam Toxicol** 1996 Mar;30(3):412–7
Changes in the molecular structure of hair in insulin-dependent diabetes. James VJ, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):76–80
Examination of stability of anticonvulsants in a protease solution and assay of anticonvulsants in hairs. Fujii J, et al. **Biol Pharm Bull** 1996 Dec;19(12):1614–7
Determination of copper and zinc levels in human hair: influence of sex, age, and hair pigmentation. Bertazzo A, et al. **Biol Trace Elem Res** 1996 Apr;52(1):37–53
Trace elements in scalp hair of professional drivers and university teachers in Hong Kong. Man AC, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):241–7
Calcium, magnesium, and phosphorus content of hair from two populations of rhesus monkeys. Marriott BM, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):147–65
Copper, iron, manganese, and zinc content of hair from two populations of rhesus monkeys. Marriott BM, et al. **Biol Trace Elem Res** 1996 Summer;53(1-3):167–83
Trace elements in hair of healthy children sampled by age and sex. Perrone L, et al. **Biol Trace Elem Res** 1996 Jan; 51(1):71–6
A case-control study on selenium, zinc, and copper in plasma and hair of subjects affected by breast and lung cancer. Piccinini L, et al. **Biol Trace Elem Res** 1996 Jan;51(1):23–30
Comparison of different extraction procedures for drugs in hair of drug addicts. Cirimele V, et al. **Biomed Chromatogr** 1996 Jul-Aug;10(4):179–82
Determination of stimulants in a single human hair sample by high-performance liquid chromatographic method with chemiluminescence detection. Takayama N, et al. **Biomed Chromatogr** 1997 Jan-Feb;11(1):25–8
Determination of furosine in hair by liquid chromatography-tandem mass spectrometry. Takemura A, et al. **Biomed Chromatogr** 1997 Jan-Feb;11(1):61–2
Hair mercury concentrations in cats and dogs in central Japan. Sakai T, et al. **Br Vet J** 1995 Mar-Apr;151(2):215–9
Electrophoretic variation of hair proteins. Costa EJ, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1427–9
Detection of misreported drug use in forensic populations: an overview of hair analysis. Kelly KS, et al. **Bull Am Acad Psychiatry Law** 1996;24(1):85–94 (45 ref.)
Arsenic content in hair of people exposed to natural arsenic polluted groundwater at Zimapán, México. Armienta MA, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):583–9
Neonatal hair test for cocaine. Toronto experience. Koren G, et al. **Can Fam Physician** 1997 Jul;43:1215–7, 1219
Regional biological dosimetry: radiation induced changes of elemental concentrations in hair. Jaksic M, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Feb;42(1):127–31
Detection of the anabolic beta 2-adrenoceptor agonist clenbuterol in human scalp hair by HPLC/EIA. Gleixner A, et al. **Clin Chem** 1996 Nov;42(11):1869–71
Sequences and differential expression of three novel human type-II hair keratins. Rogers MA, et al. **Differentiation** 1997 Feb;61(3):187–94
Enantioselective determination of methadone and its main metabolite 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) in serum, urine and hair by capillary electrophoresis. Frost M, et al. **Electrophoresis** 1997 Jun; 18(6):1026–34
Protein chains in hair and epidermal keratin IF: structural features and spatial arrangements. Parry DA. **EXS** 1997; 78:177–207 (122 ref.)
Hair sulfur amino acid analysis. Zahn H, et al. **EXS** 1997; 78:239–58 (47 ref.)
Proceedings of the 1st European meeting on hair analysis. Clinical, occupational and forensic application. Genova, Italy, June 17–19, 1996. **Forensic Sci Int** 1997 Jan 17; 84(1-3):1–307
Experience with hair testing in the clinical biochemistry laboratory of Ca' Granda Niguarda Hospital, Milan, Italy. Cassani M, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):17–24
Testing human hair for flunitrazepam and 7-amino-flunitrazepam by GC/MS-NCI. Cirimele V, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):189–200
Immunoassay of digoxin in hair. Deveaux M, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):219–23
Influence of sample preparation on analytical results: drug analysis [GC/MS] on hair snippets versus hair powder using various extraction methods. Eser HP, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):271–9
Electrophoretic analysis of non-human primates hair keratin. Folin M, et al. **Forensic Sci Int** 1996 Dec 27;83(3):191–9
Simultaneous solid-phase extraction on C18 cartridges of opiates and cocainics for an improved quantitation in human hair by GC-MS: one year of forensic applications. Gaillard Y, et al. **Forensic Sci Int** 1997 Apr 18; 86(1-2):49–59
Detection of alprazolam in hair by negative ion chemical ionization mass spectrometry. Höld KM, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):201–9
Cocaine detection in a university population by hair analysis and skin swab testing. Kidwell DA, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):75–86
Interlaboratory comparison of quantitative determination of amphetamine and related compounds in hair samples. Kintz P, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):151–6
Determination of drug exposure using hair: application to child protective cases. Lewis D, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):123–8
Quantification of dextropropoxyphene and its metabolite by HPLC in hair of overdose cases. Mersch F, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):237–42
A research note: an analysis of RIA and GC/MS split hair samples from the New Orleans Pretrial Diversion Program. Mieczkowski T, et al. **Forensic Sci Int** 1997 Jan 17; 84(1-3):67–73
Concordance between self-reported drug use and findings in hair about cocaine and heroin. Pépin G, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):37–41
Hair analysis for nicotine and cotinine: evaluation of extraction procedures, hair treatments, and development of reference material. Pichini S, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):243–52
The analysis of nicotine in infants' hair for measuring exposure to environmental tobacco smoke. Pichini S, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):253–8
Determination of opiates in hair. Effects of extraction methods on recovery and on stability of analytes. Polettini A, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):259–69
Stability of opiates in hair fibers after exposure to cosmetic treatment. Pötsch L, et al. **Forensic Sci Int** 1996 Aug 15; 81(2-3):95–102
Determination of amphetamine and methylenedioxy-amphetamine-derivatives in hair. Röhrich J, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):179–88
Hair concentrations and self-reported abuse history of 20 amphetamine and ecstasy users. Rothe M, et al. **Forensic Sci Int** 1997 Sep 19;89(1-2):111–28
Quality control by the Society of Hair Testing. Sachs H. **Forensic Sci Int** 1997 Jan 17;84(1-3):145–50 (4 ref.)
History of hair analysis. Sachs H. **Forensic Sci Int** 1997 Jan 17;84(1-3):7–16
Optimization of a simple method for the chiral separation of phenethylamines of forensic interest based on cyclodextrin complexation capillary electrophoresis and its preliminary application to the analysis of human urine and hair. Scarcella D, et al. **Forensic Sci Int** 1997 Sep 19; 89(1-2):33–46
Cocaine in hair, saliva, skin swabs, and urine of cocaine users' children. Smith FP, et al. **Forensic Sci Int** 1996 Dec 27; 83(3):179–89
Supercritical fluid extraction and hair analysis: the situation in 1996. Staub C. **Forensic Sci Int** 1997 Jan 17; 84(1-3):295–304 (10 ref.)
Integrated use of hair analysis to investigate the physical fitness to obtain the driving licence: a casework study. Tagliaro F, et al. **Forensic Sci Int** 1997 Jan 17; 84(1-3):129–35
Determination of drugs in hair using GC/MS/MS. Uhl M. **Forensic Sci Int** 1997 Jan 17;84(1-3):281–94
Detection of benzodiazepines and other psychotropic drugs in human hair by GC/MS. Yegles M, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):211–8
Protein oxidation of a hair sample kept in Alaskan ice for 800-1000 years. Lubec G, et al. **Free Radic Res** 1997 May; 26(5):457–62
A comparative electrophoretic analysis of mammalian hair and avian feather proteins. Khawar SL, et al. **Int J Biochem Cell Biol** 1997 Feb;29(2):367–80
Influence of the cosmetic treatment of hair on drug testing. Jurado C, et al. **Int J Legal Med** 1997;110(3):159–63
Concentrations of delta 9-tetrahydrocannabinol, cocaine and 6-monoacetylmorphine in hair of drug abusers. Kauert G, et al. **Int J Legal Med** 1996;108(6):294–9
A discourse on human hair fibers and reflections on the conservation of drug molecules. Pötsch L. **Int J Legal Med** 1996;108(6):285–93 (87 ref.)
Analysis of fentanyl and sufentanil in hair by GC/MS/MS. Sachs H, et al. **Int J Legal Med** 1996;109(4):213–5
Evaluation of cocaine use during pregnancy through toxicological analysis of hair. Chiarotti M, et al. **J Anal Toxicol** 1996 Nov-Dec;20(7):555–8
Determination of chronic flunitrazepam abuse by hair analysis using GC-MS-NCI. Cirimele V, et al. **J Anal Toxicol** 1996 Nov-Dec;20(7):596–8
Testing human hair for Cannabis. III. rapid screening procedure for the simultaneous identification of delta 9-tetrahydrocannabinol, cannabinol, and cannabidiol. Cirimele V, et al. **J Anal Toxicol** 1996 Jan-Feb;20(1):13–6
Detection of stanozolol in hair by negative ion chemical ionization mass spectrometry. Höld KM, et al. **J Anal Toxicol** 1996 Oct;20(6):345–49
Hair testing for cannabis in Spain and France: is there a difference in consumption? Jurado C, et al. **J Anal Toxicol** 1996 Mar-Apr;20(2):111–5
Hair analysis for drugs of abuse. XVI. Disposition of fenethylline and its metabolite into hair and discrimination between fenethylline use and amphetamine use by hair analysis. Kikura R, et al. **J Anal Toxicol** 1997 Jul-Aug; 21(4):291–6
Detection of LSD and metabolite in rat hair and human hair. Nakahara Y, et al. **J Anal Toxicol** 1996 Sep;20(5):323–9
The determination of mercury and selenium in maternal and neonatal scalp hair by inductively coupled plasma-mass spectrometry. Razagui IB, et al. **J Anal Toxicol** 1997 Mar-Apr;21(2):149–53
Hair analysis for drugs of abuse XII. Determination of PCP and its major metabolites, PCHP and PPC, in rat hair after administration of PCP. Sakamoto T, et al. **J Anal Toxicol** 1996 Mar-Apr;20(2):124–30

Interlaboratory studies on the analysis of hair for drugs of abuse: results from the fourth exercise. Sniegoski LT, et al. **J Anal Toxicol** 1996 Jul–Aug;20(4):242–7

Quantitative analysis of THC, 11–OH–THC, and THCCOOH in human hair by negative ion chemical ionization mass spectrometry. Wilkins D, et al. **J Anal Toxicol** 1995 Oct;19(6):483–91

Screening and identification of drugs in human hair by high–performance liquid chromatography–photodiode–array UV detection and gas chromatography–mass spectrometry after solid–phase extraction. A powerful tool in forensic medicine. Gaillard Y, et al. **J Chromatogr A** 1997 Feb 21;762(1–2):251–67

Application of ion mobility spectrometry to the rapid screening of methamphetamine incorporated in hair. Miki A, et al. **J Chromatogr B Biomed Appl** 1997 May 9; 692(2):319–28

High–performance liquid chromatographic determination of carbamazepine and metabolites in human hair. Saris LA, et al. **J Chromatogr B Biomed Appl** 1997 Apr 11; 691(2):409–15

Hair analysis, a novel tool in forensic and biomedical sciences: new chromatographic and electrophoretic/electrokinetic analytical strategies. Tagliaro F, et al. **J Chromatogr B Biomed Appl** 1997 Feb 7;689(1):261–71 (102 ref.)

Isolation and characterization of genomic clones of human sequences presumably coding for hair cysteine–rich proteins. Emonet N, et al. **J Dermatol Sci** 1997 Jan; 14(1):1–11

Hair nicotine concentrations in mothers and children in relation to parental smoking. Nafstad P, et al. **J Expo Anal Environ Epidemiol** 1997 Apr–Jun;7(2):235–9

Enantioselective separation of methadone and its main metabolite in human hair by liquid chromatography/ion spray–mass spectrometry. Kintz P, et al. **J Forensic Sci** 1997 Mar;42(2):291–5

Tungsten determination in biological fluids, hair and nails by plasma emission spectrometry in a case of severe acute intoxication in man. Marquet P, et al. **J Forensic Sci** 1997 May;42(3):527–30

Gender identification of human hair using fluorescence in situ hybridization. Prahlow JA, et al. **J Forensic Sci** 1996 Nov;41(6):1035–7

Experimental investigations on hair fibers as diffusion bridges and opiates as solutes in solution. Skopp G, et al. **J Forensic Sci** 1996 Jan;41(1):117–20

HPLC/MS determination of buprenorphine and norbuprenorphine in biological fluids and hair samples. Tracqui A, et al. **J Forensic Sci** 1997 Jan;42(1):111–4

Determination of beta 2–agonists in hair by gas chromatography/mass spectrometry. Polettini A, et al. **J Mass Spectrom** 1996 Jan;31(1):47–54

The measurement of caffeine concentration in scalp hair as an indicator of liver function. Mizuno A, et al. **J Pharm Pharmacol** 1996 Jun;48(6):660–4

Concentrations of blood and hair mercury and serum PCBs in an Ojibwa population that consumes Great Lakes region fish. Gerstenberger SL, et al. **J Toxicol Clin Toxicol** 1997; 35(4):377–86

Cocaine and metabolites in human graying hair: pigmentary relationship. Reid RW, et al. **J Toxicol Clin Toxicol** 1996; 34(6):685–90

Hair selenium as a monitoring tool for occupational exposures in relation to clinical profile. Srivastava AK, et al. **J Toxicol Environ Health** 1997 Aug 8;51(5):437–45

Histo–blood group Lewis genotyping from human hairs and blood. Yazawa S, et al. **Jpn J Hum Genet** 1996 Mar; 41(1):177–88

Mercury dynamics in hair of rats exposed to methylmercury by synchrotron radiation X–ray fluorescence imaging. Shimojo N, et al. **Life Sci** 1997;60(23):2129–37

Cocaine abuse in pregnancy: its evaluation through hair analysis of pathological new–borns. Strano–Rossi S, et al. **Life Sci** 1996;59(22):1909–15

Age–related decreases in chromium levels in 51,665 hair, sweat, and serum samples from 40,872 patients—implications for the prevention of cardiovascular disease and type II diabetes mellitus. Davies S, et al. **Metabolism** 1997 May;46(5):469–73

Microsatellite scoring errors associated with noninvasive genotyping based on nuclear DNA amplified from shed hair. Gagneux P, et al. **Mol Ecol** 1997 Sep;6(9):861–8

Risk assessment of mercury exposure through fish consumption by the riverside people in the Madeira Basin, Amazon, 1991. Boischio AA, et al. **Neurotoxicology** 1996 Spring;17(1):169–75

Monitoring methylmercury during pregnancy: maternal hair predicts fetal brain exposure. Cernichiari E, et al. **Neurotoxicology** 1995 Winter;16(4):705–10

Analysis of data on delayed development from the 1971–72 outbreak of methylmercury poisoning in Iraq: assessment of influential points. Cox C, et al. **Neurotoxicology** 1995 Winter;16(4):727–30

Evidence of early nervous system dysfunction in Amazonian populations exposed to low–levels of methylmercury. Lebel J, et al. **Neurotoxicology** 1996 Spring;17(1):157–67

Fetal methylmercury study in a Peruvian fish–eating population. Marsh DO, et al. **Neurotoxicology** 1995 Winter; 16(4):717–26

Balancing human exposure, risk and reality: questions raised by the Canadian aboriginal methylmercury program. Wheatley B, et al. **Neurotoxicology** 1996 Spring;17(1):241–9

Assessing drug use in the workplace: a comparison of self–report, urinalysis, and hair analysis. Cook RF, et al. **NIDA Res Monogr** 1997;167:247–72

Factors to consider when using hair as a cocaine–exposure measure for mothers or newborns. Marques PR. **NIDA Res Monogr** 1996;166:183–97

Patterns of concordance between hair assays and urinalysis for cocaine: longitudinal analysis of probationers in Pinellas County, Florida. Mieczkowski T, et al. **NIDA Res Monogr** 1997;167:161–99

The forensic application of testing hair for drugs of abuse. Miller ML, et al. **NIDA Res Monogr** 1997;167:146–60 (12 ref.)

The validity of self–reports of drug use at treatment admission and at followup: comparisons with urinalysis and hair assays. Wish ED, et al. **NIDA Res Monogr** 1997; 167:200–26

Spectrophotometric characterization of eumelanin and pheomelanin in hair. Ozeki H, et al. **Pigment Cell Res** 1996 Oct;9(5):265–70

Chemical characterization of melanins in sheep wool and human hair. Ozeki H, et al. **Pigment Cell Res** 1996 Apr; 9(2):51–7

Composition of mammalian eumelanins: analyses of DHICA–derived units in pigments from hair and melanoma cells. Wilczek A, et al. **Pigment Cell Res** 1996 Apr;9(2):63–7

Effect of processing systems on protein quality of feather meals and hog hair meals. Wang X, et al. **Poult Sci** 1997 Mar;76(3):491–6

Estimation of the interindividual variability in the one–compartment pharmacokinetic model for methylmercury: implications for the derivation of a reference dose. Stern AH. **Regul Toxicol Pharmacol** 1997 Jun;25(3):277–88

Detecting comorbid substance misuse among people with schizophrenia in the community: a study comparing the results of questionnaires with analysis of hair and urine. McPhillips MA, et al. **Schizophr Res** 1997 May 24; 25(2):141–8

Mercury in hair for a child population from Tarragona Province, Spain. Batista J, et al. **Sci Total Environ** 1996 Dec 20;193(2):143–8

Occupational exposure amongst locomotive shed workers and welders using neutron activation analysis of scalp hair. Ramakrishna VV, et al. **Sci Total Environ** 1996 Dec 9; 192(3):259–67

Fourier–transform Raman spectroscopic study of human hair. Akhtar W, et al. **Spectrochim Acta A Mol Biomol Spectrosc** 1997 Jul 15; 53A(7):1021–31

An assessment of the routes of incorporation of opiates into beard hair after a single oral dose of codeine. Callaghan RR, et al. **Ther Drug Monit** 1996 Dec;18(6):724–8

Validation of self–reported smoking by analysis of hair for nicotine and cotinine. Eliopoulos C, et al. **Ther Drug Monit** 1996 Oct;18(5):532–6

Judicial acceptance of hair tests for substances of abuse in the United States courts: scientific, forensic, and ethical aspects. Huestis MA. **Ther Drug Monit** 1996 Aug; 18(4):456–9

Drug testing in addicts: a comparison between urine, sweat, and hair. Kintz P. **Ther Drug Monit** 1996 Aug;18(4):450–5

Simultaneous determination of phenytoin and carbamazepine in human hair by high–performance liquid chromatography. Mei Z, et al. **Ther Drug Monit** 1997 Feb; 19(1):92–4

Clinical outcome of smoking–cessation trial of nicotine chewing gum evaluated by analysis of nicotine in hair. Mizuno A, et al. **Ther Drug Monit** 1997 Aug;19(4):407–12

Hair analysis as evidence in forensic cases. Moeller MR. **Ther Drug Monit** 1996 Aug;18(4):444–9

Biological monitoring of mercury vapour exposure by scalp hair analysis in comparison to blood and urine. Wilhelm M, et al. **Toxicol Lett** 1996 Nov;88(1–3):221–6

[Detection of nordiazepam in the hair of drug addicts] Vayssette F, et al. **Ann Pharm Fr** 1996;54(5):211–6 (Eng. Abstr.) **(Fre)**

[A new tool for biological study: hair analysis. Value in medical practice] Goullé JP, et al. **Rev Med Interne** 1996; 17(10):826–35 (54 ref.) (Eng. Abstr.) **(Fre)**

[Blood and hair arsenic, lead and cadmium analysis of adults and correlation analysis with special reference to eating habits and other behavioral influences] Paulsen F, et al. **Gesundheitswesen** 1996 Aug–Sep;58(8–9):459–64 (Eng. Abstr.) **(Ger)**

[The content of selected trace elements and heavy metals in the hair of children from Chorzów] Kasznia–Kocot J, et al. **Pediatr Pol** 1996 Jan;71(1):31–6 (Eng. Abstr.) **(Pol)**

[Levels of calcium, magnesium, zinc, copper and iron in hair of children and adolescents] Kozielec T, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):150–4 (Eng. Abstr.) **(Pol)**

[Determination of lead, cadmium, copper and zinc in hair of children from Lublin as a test of environmental pollution] Zaborowska W, et al. **Rocz Panstw Zakl Hig** 1996;47(2):217–22 (Eng. Abstr.) **(Pol)**

[Heavy metal content of the hair of children in industrial cities] Cherniaeva TK, et al. **Gig Sanit** 1997 May–Jun; (3):26–8 (Eng. Abstr.) **(Rus)**

[The complex detection of AB(O)–system antigens and of keratin polymorphism in the forensic medical study of hair] Kukhar'kov IuV, et al. **Sud Med Ekspert** 1997 Jan–Mar; 40(1):31–3 (Eng. Abstr.) **(Rus)**

[Experience in using hair as the object of study in forensic medical molecular genetic expertise] Zaiats MV, et al. **Sud Med Ekspert** 1997 Jan–Mar;40(1):17–24 (Eng. Abstr.) **(Rus)**

[Selenium in the hair as an informational index of its human body allowance] Golubkina NA, et al. **Vopr Pitan** 1996; (3):14–7 (Eng. Abstr.) **(Rus)**

[Selenium status of healthy children under 1 year of age dependent on the type of feeding] Sorvacheva TN, et al. **Vopr Pitan** 1996;(4):24–7 (Eng. Abstr.) **(Rus)**

[Hair mercury levels in different occupational groups in a gold mining zone in the north of Colombia] Olivero J, et al. **Rev Saude Publica** 1995 Oct;29(5):376–9 (Eng. Abstr.) **(Spa)**

CYTOLOGY

Hair cycle–associated changes in splenocyte proliferation. Slominski A, et al. **In Vivo** 1997 Jan–Feb;11(1):101–2

Keratin 17 gene expression during the murine hair cycle. Panteleyev AA, et al. **J Invest Dermatol** 1997 Mar; 108(3):324–9

DRUG EFFECTS

Cytokines and growth factors influence hair growth in vitro. Possible implications for the pathogenesis and treatment of alopecia areata. Hoffmann R, et al. **Arch Dermatol Res** 1996 Mar;288(3):153–6

Hair growth control by immunosuppression. Paus R, et al. **Arch Dermatol Res** 1996 Jun;288(7):408–10

Hair: its structure and response to cosmetic preparations. Dawber R. **Clin Dermatol** 1996 Jan–Feb;14(1):105–12 (36 ref.)

Growth hormone substitution in adult growth hormone–deficient men augments androgen effects on the skin. Blok GJ, et al. **Clin Endocrinol (Oxf)** 1997 Jul; 47(1):29–36

Effects of ozonized autohaemotherapy on human hair cycle. Riva Sanseverino E, et al. **Panminerva Med** 1995 Sep; 37(3):129–32

Effects of hypertrichotic agents on follicular and nonfollicular cells in vitro. Kurata S, et al. **Skin Pharmacol** 1996;9(1):3–8

ENZYMOLOGY

Discovery of a second 15S–lipoxygenase in humans. Brash AR, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6148–52

GROWTH & DEVELOPMENT

Topical squaric acid dibutylester therapy for alopecia areata: a double–sided patient–controlled study. Chua SH, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):842–7

Regrowth of alopecia areata simulating the pattern of androgenetic alopecia [letter] Muñoz MA, et al. **Arch Dermatol** 1997 Jan;133(1):114–5

A simple immunofluorescence technique for simultaneous visualization of mast cells and nerve fibers reveals selectivity and hair cycle–dependent changes in mast cell–nerve fiber contacts in murine skin. Botchkarev VA, et al. **Arch Dermatol Res** 1997 Apr;289(5):292–302

Cytokines and growth factors influence hair growth in vitro. Possible implications for the pathogenesis and treatment of alopecia areata. Hoffmann R, et al. **Arch Dermatol Res** 1996 Mar;288(3):153–6

Hair growth control by immunosuppression. Paus R, et al. **Arch Dermatol Res** 1996 Jun;288(7):408–10

Identification and measurement of beta–endorphin levels in the skin during induced hair growth in mice. Furkert J, et al. **Biochim Biophys Acta** 1997 Aug 29;1336(2):315–22

Norreticuline and reticuline as possible new agents for hair growth acceleration. Nakaoji K, et al. **Biol Pharm Bull** 1997 May;20(5):586–8

Immunohistochemical analysis of tissue remodelling during the anagen–catagen transition of the human hair follicle. Commo S, et al. **Br J Dermatol** 1997 Jul;137(1):31–8

In vivo depletion of CD8+ T cells restores hair growth in the DEBR model for alopecia areata. McElwee KJ, et al. **Br J Dermatol** 1996 Aug;135(2):211–7

Photographic documentation of hair growth in androgenetic alopecia. Canfield D. **Dermatol Clin** 1996 Oct;14(4):713–21 (6 ref.)

Dermal–epidermal interactions. Adult follicle–derived cell populations and hair growth. Jahoda CA, et al. **Dermatol Clin** 1996 Oct;14(4):573–83 (53 ref.)

Androgen metabolism as it affects hair growth in androgenetic alopecia. Kaufman KD. **Dermatol Clin** 1996 Oct;14(4):697–711 (67 ref.)

The growth of human hair in nude mice. Neste DV. **Dermatol Clin** 1996 Oct;14(4):609–17 (25 ref.)

Growth factors in hair organ development and the hair growth cycle. Peus D, et al. **Dermatol Clin** 1996 Oct; 14(4):559–72 (129 ref.)

Fibroblast growth factor signalling in the hair growth cycle: expression of the fibroblast growth factor receptor and ligand genes in the murine hair follicle. Rosenquist TA, et al. **Dev Dyn** 1996 Apr;205(4):379–86

Inhibition of hair growth by testosterone in the presence of

dermal papilla cells from the frontal bald scalp of the postpubertal stumptailed macaque. Obana N, et al. **Endocrinology** 1997 Jan;138(1):356–61

Evaluation of biochemical indices as a hair cycle marker in C3H mice. Hamada K, et al. **Exp Anim** 1996 Jul;45(3):251–6

Hair growth and skin in the kinky–coat (kc) musk shrew, Suncus murinus. Ishikawa A, et al. **Exp Anim** 1996 Jul; 45(3):227–32

The role of keratin proteins and their genes in the growth, structure and properties of hair. Powell BC, et al. **EXS** 1997;78:59–148 (284 ref.)

Expression of transforming growth factor beta isoforms and their receptors during hair growth phases in mice. Wollina U, et al. **Histol Histopathol** 1996 Apr;11(2):431–6

Hair cycle–associated changes in splenocyte proliferation. Slominski A, et al. **In Vivo** 1997 Jan–Feb;11(1):101–2

Activation of polyamine catabolism profoundly alters tissue polyamine pools and affects hair growth and female fertility in transgenic mice overexpressing spermidine/spermine N1–acetyltransferase. Pietilä M, et al. **J Biol Chem** 1997 Jul 25;272(30):18746–51

Hyperinsulinemia in postpubertal girls with a history of premature pubarche and functional ovarian hyperandrogenism. Ibanez L, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1237–43

Interleukin–1beta–induced inhibition of hair growth in vitro is mediated by cyclic AMP. Hoffmann R, et al. **J Invest Dermatol** 1997 Jan;108(1):40–2

Molecular basis of hair growth control [editorial; comment] Stenn KS, et al. **J Invest Dermatol** 1996 Nov;107(5):669–70 . Comment on: J Invest Dermatol 1996 Nov;107(5):770–7.

Involvement of platelet–derived growth factor receptor–alpha in hair canal formation [comment] Takakura N, et al. **J Invest Dermatol** 1996 Nov;107(5):770–7. Comment on: J Invest Dermatol 1996 Nov;107(5):669–70.

Effects of melatonin implants on winter fur growth and testicular recrudescence in adult male raccoon dogs (Nyctereutes procyonoides). Xiao Y, et al. **J Pineal Res** 1996 Apr;20(3):148–56

Gonadotropin–releasing hormone analog plus an oral contraceptive containing desogestrel in women with severe hirsutism: effects on hair, bone, and hormone profile after 1–year use. Castelo–Branco C, et al. **Metabolism** 1997 Apr; 46(4):437–40

Effects of hypertrichotic agents on follicular and nonfollicular cells in vitro. Kurata S, et al. **Skin Pharmacol** 1996;9(1):3–8

Angora mouse mutation: altered hair cycle, follicular dystrophy, phenotypic maintenance of skin grafts, and changes in keratin expression. Sundberg JP, et al. **Vet Pathol** 1997 May;34(3):171–9

[Cycle of hair growth and evaluation of alopecia] Piérard–Franchimont C, et al. **Schweiz Rundsch Med Prax** 1997 Jun 4;86(23):979–81 (6 ref.) (Eng. Abstr.) **(Fre)**

[Clinical evaluation of body hair in healthy women] Téllez R, et al. **Rev Med Chil** 1995 Nov;123(11):1349–54 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Characterization of allergens from deer: cross–reactivity with allergens from cow dander. Spitzauer S, et al. **Clin Exp Allergy** 1997 Feb;27(2):196–200

Cow hair allergen (Bos d 2) content in house dust: correlation with sensitization in farmers with cow hair asthma. Hinze S, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):231–7

False–positive skin prick test responses to commercially available dog dander extracts caused by contamination with house dust mite (Dermatophagoides pteronyssinus) allergens. van der Veen MJ, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1028–34

[Pulmonary infiltration with eosinophilia due to rabbit–fur antigen: diagnosis by allergen inhalation test] Hommura F, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Apr; 35(4):455–60 (Eng. Abstr.) **(Jpn)**

METABOLISM

Hair analysis for drugs of abuse. XIII. Effect of structural factors on incorporation of drugs into hair: the incorporation rates of amphetamine analogs. Nakahara Y, et al. **Arch Toxicol** 1996;70(12):841–9

Assembly of hair keratins in transfected epithelial cells. Manabe M, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):965–73

Glycation index of hair for non–invasive estimation of diabetic control. Kobayashi K, et al. **Biol Pharm Bull** 1996 Apr;19(4):487–90

Lead levels in bone and hair of rats treated with lead acetate. Hać E, et al. **Biol Trace Elem Res** 1996 Jun;52(3):293–301

Selenium status of healthy Turkish children. Mengübaş K, et al. **Biol Trace Elem Res** 1996 Aug;54(2):163–72

Occurrence of heavy metals, sodium, calcium, and potassium in human hair, teeth, and nails. Nowak B. **Biol Trace Elem Res** 1996 Apr;52(1):11–22

Characterization of LHTric–1, a new monospecific monoclonal antibody to the trichocyte keratin Ha1. Westgate GE, et al. **Br J Dermatol** 1997 Jul;137(1):24–30

Lead content in human scalp hair of rural and urban residents in Taiwan. Cheng PC, et al. **Bull Environ Contam Toxicol** 1996 Dec;57(6):952–6

Mercury in hair of muskrats (Ondatra zibethicus) and mink (Mustela vison) from the U. S. Department of Energy Oak Ridge Reservation. Stevens RT, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):720–5

Hair iron content: possible marker to complement monitoring therapy of iron deficiency in patients with chronic inflammatory bowel disease? [letter; comment] Beutler E. **Clin Chem** 1997 Jun;43(6 Pt 1):1099–100. Comment on: Clin Chem 1996 Aug;42(8 Pt 1):1270–4.

Carbamazepine levels in the hair of patients under long–term treatment: a preliminary study. Tsatsakis AM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):187–95

Sequences and differential expression of three novel human type–II hair keratins. Rogers MA, et al. **Differentiation** 1997 Feb;61(3):187–94

Dose–related distribution of codeine and its metabolites into rat hair. Gygi SP, et al. **Drug Metab Dispos** 1996 Mar; 24(3):282–7

Regional variation in As, Cu, Hg, and Se and interaction between them. Raie RM. **Ecotoxicol Environ Saf** 1996 Dec; 35(3):248–52

Codeine disposition in human hair after single and multiple doses. Rollins DE, et al. **Eur J Clin Pharmacol** 1996; 50(5):391–7

Hair melanin and hair color. Castanet J, et al. **EXS** 1997; 78:209–25 (56 ref.)

Morphology and histochemistry of human hair. Swift JA. **EXS** 1997;78:149–75 (59 ref.)

Integral lipids of hair and stratum corneum. Wertz PW. **EXS** 1997;78:227–37 (51 ref.)

Hair opiates during pain treatment. Goullé JP, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):137–44

Time course of cocaine in rabbit hair. Jurado C, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):61–6

Hair analysis for drug abuse. XV. Disposition of 3, 4–methylenedioxymethamphetamine (MDMA) and its related compounds into rat hair and application to hair analysis for MDMA abuse. Kikura R, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):165–77

Biochemical approach on the conservation of drug molecules during hair fiber formation. Pötsch L, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):25–35 (59 ref.)

Structural and concentration effects on the deposition of tricyclic antidepressants in human hair. Pragst F, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):225–36

Effect of pigmentation on the drug deposition in hair of grey–haired subjects. Rothe M, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):53–60

On cosmetically treated hair—aspects and pitfalls of interpretation. Skopp G, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):43–52

Hair analysis as a potential index of therapeutic compliance in the treatment of epilepsy. Williams J, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):113–22

Peptide mapping of S–carboxymethylated hair and feather proteins using two–dimensional electrophoresis. Khawar SL, et al. **Int J Biochem Cell Biol** 1996 Oct;28(10):1155–62

A comparison of 3H–cocaine binding on melanin granules and human hair in vitro. Pötsch L, et al. **Int J Legal Med** 1997;110(2):55–62

The effect of hair color on the incorporation of methadone into hair in the rat. Green SJ, et al. **J Anal Toxicol** 1996 Mar–Apr;20(2):121–3

Distribution of codeine and morphine into rat hair after long–term daily dosing with codeine. Gygi SP, et al. **J Anal Toxicol** 1995 Oct;19(6):387–91

Incorporation of isotopically labeled cocaine and metabolites into human hair: 1. dose–response relationships. Henderson GL, et al. **J Anal Toxicol** 1996 Jan–Feb;20(1):1–12

In vitro binding studies of drugs to hair: influence of melanin and lipids on cocaine binding to Caucasoid and Africoid hair. Joseph RE Jr, et al. **J Anal Toxicol** 1996 Oct; 20(6):338–44

Testing human hair and urine for anhydroecgonine methyl ester, a pyrolysis product of cocaine. Kintz P, et al. **J Anal Toxicol** 1995 Oct;19(6):479–82

Quantitative determination of phencyclidine in pigmented and nonpigmented hair by ion–trap mass spectrometry. Slawson MH, et al. **J Anal Toxicol** 1996 Oct;20(6):350–4

Quantitative analysis of methadone and two major metabolites in hair by positive chemical ionization ion trap mass spectrometry. Wilkins DG, et al. **J Anal Toxicol** 1996 Oct;20(6):355–61

Disposition of codeine in female human hair after multiple–dose administration. Wilkins DG, et al. **J Anal Toxicol** 1995 Oct;19(6):492–8

On pathways for small molecules into and out of human hair fibers. Pötsch L, et al. **J Forensic Sci** 1996 Jan;41(1):121–5

A comparison of phenobarbital and codeine incorporation into pigmented and nonpigmented rat hair. Gygi SP, et al. **J Pharm Sci** 1997 Feb;86(2):209–14

In vitro characterization of cocaine binding sites in human hair. Joseph RE Jr, et al. **J Pharmacol Exp Ther** 1997 Sep; 282(3):1228–41

Information on the selenium status of several body compartments of rats from the selenium concentrations in blood fractions, hair and nails. Behne D, et al. **J Trace Elem Med Biol** 1996 Sep;10(3):174–9

Selenium administration to a ten–year–old patient receiving long–term total parenteral nutrition (TPN)—changes in selenium concentration in the blood and hair. Terada A, et al. **J Trace Elem Med Biol** 1996 Apr;10(1):1–5

The biological monitoring of mercury in the Seychelles study. Cernichiari E, et al. **Neurotoxicology** 1995 Winter; 16(4):613–28

A pilot neurodevelopmental study of Seychellois children following in utero exposure to methylmercury from a maternal fish diet. Myers GJ, et al. **Neurotoxicology** 1995 Winter;16(4):629–38

Accumulation of nicotine in human hair during long–term controlled exposure to a low concentration of nicotine vapour. Nilsen T, et al. **Pharmacol Toxicol** 1997 Jul; 81(1):48–52

Interindividual differences in hair uptake of air nicotine and significance of cigarette counting for estimation of environmental tobacco smoke exposure. Zahlsen K, et al. **Pharmacol Toxicol** 1996 Oct;79(4):183–90

Hair analysis of spastic children in Hong Kong. Man CK, et al. **Sci Total Environ** 1996 Nov 22;191(3):291–95

Mechanisms of drug incorporation into hair. Cone EJ. **Ther Drug Monit** 1996 Aug;18(4):438–43

Evidence for saturable incorporation of methadone into rat hair: relationships among oral dose, plasma concentration, and hair content. Green SJ, et al. **Ther Drug Monit** 1996 Dec;18(6):710–3

MICROBIOLOGY

Survey of dermatophytes isolated from the coats of laboratory animals in Italy. Papini R, et al. **Lab Anim Sci** 1997 Feb;47(1):75–7

Isolation of fungi from the pelage of cats and dogs using the hairbrush technique. Simpanya MF, et al. **Mycopathologia** 1996;134(3):129–33

Fungal flora of the hair coat of stray cats in Iran. Khosravi AR. **Mycoses** 1996 May–Jun;39(5–6):241–3

["Depilation" by micro–algae?] Ditrich H. **Arch Kriminol** 1996 Sep–Oct;198(3–4):95–8 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Semi–quantitative measurements of body hair in hirsute women compare well with direct diameter measurements of hair shafts. Barth JH. **Acta Derm Venereol** 1997 Jul; 77(4):317–8

Cuticle cell defects in lamellar ichthyosis hair and anomalous hair shaft syndromes visualized after detergent extraction. Rice RH, et al. **Anat Rec** 1996 Dec;246(4):433–40

Quantitating hair loss in women: a critical approach. Guarrera M, et al. **Dermatology** 1997;194(1):12–6

Matting of scalp hair. Siragusa M, et al. **Dermatology** 1996; 192(4):347–9

Cutaneous mixed tumor containing ossification, hair matrix, and sebaceous ductal differentiation. Akasaka T, et al. **J Dermatol** 1997 Feb;24(2):125–31

Hair abnormalities in Alzheimer's disease [letter] de Berker D, et al. **Lancet** 1997 Jul 5;350(9070):34

A case of intrapulmonary teratoma presenting with hair expectoration. Ustün MO, et al. **Thorac Cardiovasc Surg** 1996 Oct;44(5):271–3 (9 ref.)

Angora mouse mutation: altered hair cycle, follicular dystrophy, phenotypic maintenance of skin grafts, and changes in keratin expression. Sundberg JP, et al. **Vet Pathol** 1997 May;34(3):171–9

PHYSIOLOGY

Genetically null mice reveal a central role for epidermal growth factor receptor in the differentiation of the hair follicle and normal hair development. Hansen LA, et al. **Am J Pathol** 1997 Jun;150(6):1959–75

FGF5 and the murine hair cycle. Pethö–Schramm A, et al. **Arch Dermatol Res** 1996 May;288(5–6):264–6

Innocuous hair deflection evokes a nociceptive–like activation of catechol oxidation in the rat locus coeruleus following intrathecal strychnine: a biochemical index of allodynia using in vivo voltammetry. Milne B, et al. **Brain Res** 1996 Apr 29;718(1–2):198–202

Prolactin, gonadotropin, and hair shedding responses to daily sulpiride administration in geldings in winter. Thompson DL Jr, et al. **J Anim Sci** 1997 Apr;75(4):1087–91

Prolactin administration to seasonally anestrous mares: reproductive, metabolic, and hair–shedding responses. Thompson DL Jr, et al. **J Anim Sci** 1997 Apr;75(4):1092–9

Hair cycle–dependent plasticity of skin and hair follicle innervation in normal murine skin. Botchkarev VA, et al. **J Comp Neurol** 1997 Sep 29;386(3):379–95

Dielectric properties of some keratinised tissues. Part 2: Human hair. Martinsen OG, et al. **Med Biol Eng Comput** 1997 May;35(3):177–80

PHYSIOPATHOLOGY

Anagen hairs may fail to replace telogen hairs in early androgenic female alopecia. Guarrera M, et al. **Dermatology** 1996;192(1):28–31

RADIATION EFFECTS

Regional biological dosimetry: radiation induced changes of elemental concentrations in hair. Jaksic M, et al. **Cell Mol Biol (Noisy–le–grand)** 1996 Feb;42(1):127–31

TRANSPLANTATION

The role of facial proportion in hair restoration surgery. Stough DB, et al. **Ann Plast Surg** 1997 Feb;38(2):129–36

Laser hair transplantation. Grevelink JM. **Dermatol Clin** 1997

Jul;15(3):479–86 (14 ref.)
The growth of human hair in nude mice. Neste DV. **Dermatol Clin** 1996 Oct;14(4):609–17 (25 ref.)
What's new in hair replacement surgery. Unger WP. **Dermatol Clin** 1996 Oct;14(4):783–802 (43 ref.)
Accurately communicating the extent of a hair transplant procedure. A proposal of a follicular-based classification scheme. Avram MR. **Dermatol Surg** 1997 Sep;23(9):817–8
A frontal forelock/central density framework for hair transplantation. Beehner ML. **Dermatol Surg** 1997 Sep; 23(9):807–15
Follicular transplantation. Patient evaluation and surgical planning. Bernstein RM, et al. **Dermatol Surg** 1997 Sep; 23(9):771–84; discussion 801–5
The aesthetics of follicular transplantation [see comments] Bernstein RM, et al. **Dermatol Surg** 1997 Sep;23(9):785–99 . Comment in: Dermatol Surg 1997 Sep;23(9):801–5.
Chest hair used as donor material in hair restoration surgery. Brandy DA. **Dermatol Surg** 1997 Sep;23(9):841–4
The mathematics of hair restoration surgery. Brandy DA. **Dermatol Surg** 1997 Feb;23(2):121–7
Standardized technique of transplanting micrografts in hair restoration surgery. A practical approach. Fan J, et al. **Dermatol Surg** 1997 Sep;23(9):829–33
Untoward risk of nitrous oxide in hair transplantation surgery—or any other surgery [letter] Field LM. **Dermatol Surg** 1997 Sep;23(9):847
Bilevel tumescent anesthetic infiltration for hair transplantation. Field LM, et al. **Dermatol Surg** 1997 Apr; 23(4):289–90 (07 ref.)
A "crush study" review of micrograft survival. Greco JF, et al. **Dermatol Surg** 1997 Sep;23(9):752–5
Linear grafting using a modified slot method. Introducing the linear punch. Hitzig GS, et al. **Dermatol Surg** 1996 Sep; 22(9):788–92
Total micrografting hair transplantation using a new hair implanter [letter] Kim IH, et al. **Dermatol Surg** 1997 Apr; 23(4):305–8
Patterns of coverage. Uniform versus graded density. Knudsen R. **Dermatol Surg** 1997 Sep;23(9):767–9
The density issue in hair transplantation. Limmer BL. **Dermatol Surg** 1997 Sep;23(9):747–50
Micrograft size and subsequent survival. Seager DJ. **Dermatol Surg** 1997 Sep;23(9):757–61; discussion 762
Posttransplant cysts [letter; comment] Shiell RC. **Dermatol Surg** 1996 Sep;22(9):822. Comment on: Dermatol Surg 1995 Oct;21(10):863–6.
Carbon dioxide laser-assisted hair transplantation. The effect of laser parameters on scalp tissue—a histologic study. Smithdeal CD. **Dermatol Surg** 1997 Sep;23(9):835–40
The Knudsen nomenclature. Standardizing terminology of graft sizes. Stough DB, et al. **Dermatol Surg** 1997 Sep; 23(9):763–5
On: follicular transplantation by Bernstein and Rassman [editorial; comment] Unger WP. **Dermatol Surg** 1997 Sep; 23(9):801–5. Comment on: Dermatol Surg 1997 Sep;23(9):785–99.
Laser hair transplantation: is it really state of the art? [letter] Bernstein RM, et al. **Lasers Surg Med** 1996;19(2):233–5; discussion 236–8
Arteriovenous fistula of the scalp secondary to punch autograft hair transplantation: angioarchitecture, histopathology, and endovascular and surgical therapy. Davis AJ, et al. **Plast Reconstr Surg** 1997 Jul;100(1):242–9 (35 ref.)
The nonmist motor [letter] Gandelman M, et al. **Plast Reconstr Surg** 1997 Feb;99(2):590–1
Minigraft preparation in surgical hair replacement. Fan J, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Mar; 31(1):83–6

ULTRASTRUCTURE

Cuticle cell defects in lamellar ichthyosis hair and anomalous hair shaft syndromes visualized after detergent extraction. Rice RH, et al. **Anat Rec** 1996 Dec;246(4):433–40
A computer-assisted method for the determination of hair cuticula patterns in mammals. Meyer W, et al. **Berl Munch Tierarztl Wochenschr** 1997 Mar;110(3):81–5
The nature of cuticular "ruffles" on slowly plucked anagen hair roots. Chapman DM. **J Cutan Pathol** 1997 Aug; 24(7):434–9
Ultrastructural aspects of hair digestion in black piedra infection. Figueras MJ, et al. **J Med Vet Mycol** 1997 Jan–Feb;35(1):1–6
Atomic force microscopy as a tool for study of human hair. You H, et al. **Scanning** 1997 Sep;19(6):431–7

VIROLOGY

Detection of human papillomavirus DNA in plucked hairs from renal transplant recipients and healthy volunteers. Boxman IL, et al. **J Invest Dermatol** 1997 May;108(5):712–5

HAIR BALLS see **BEZOARS**

HAIR CELLS

ABNORMALITIES

Shape deformation of the organ of Corti associated with length changes of outer hair cell. Zimmermann U, et al. **Acta Otolaryngol (Stockh)** 1996 May;116(3):395–400

ANATOMY & HISTOLOGY

Brainstem connections of the macula lagenae in the chicken. Kaiser A, et al. **J Comp Neurol** 1996 Oct 7;374(1):108–17
Olivocochlear innervation of inner and outer hair cells during postnatal maturation: evidence for a waiting period. Simmons DD, et al. **J Comp Neurol** 1996 Jul 8; 370(4):551–62

CHEMISTRY

Acute mechanical overstimulation of isolated outer hair cells causes changes in intracellular calcium levels without shape changes. Fridberger A, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):17–24
Mechanically induced calcium increases in isolated vestibular hair cells of the guinea pig. López-Escámez JA, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):759–64
Rab3A immunolocalization in the mammalian vestibular end-organs during development and comparison with synaptophysin expression. Dechesne CJ, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):103–11
Variations in the ensemble of potassium currents underlying resonance in turtle hair cells. Goodman MB, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):395–412
Sensory cells of the chick cochlea express synaptophysin. Sokolowski BH, et al. **Neurosci Lett** 1996 Sep 27; 216(2):89–92
Substance P in the auditory hair cells in the guinea pig. Schickinger B, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May–Jun; 58(3):121–6

CYTOLOGY

A finite-element model of inner ear hair bundle micromechanics. Duncan RK, et al. **Hear Res** 1997 Feb; 104(1–2):15–26
Cell proliferation and hair cell addition in the ear of the goldfish, Carassius auratus. Lanford PJ, et al. **Hear Res** 1996 Oct;100(1–2):1–9
Chronic cochlear de-efferentation and susceptibility to permanent acoustic injury. Liberman MC, et al. **Hear Res** 1995 Oct;90(1–2):158–68
Hair cell precursors are ultrastructurally indistinguishable from mature support cells in the ear of a postembryonic fish. Presson JC, et al. **Hear Res** 1996 Oct;100(1–2):10–20
Further studies on the mechanics of the cochlear partition in the mustached bat. I. Ultrastructural observations on the tectorial membrane and its attachments. Vater M, et al. **Hear Res** 1996 May;94(1–2):63–77
Effects of low-frequency underwater sound on hair cells of the inner ear and lateral line of the teleost fish Astronotus ocellatus. Hastings MC, et al. **J Acoust Soc Am** 1996 Mar; 99(3):1759–66
Characterization of fluo-3 labelling of dense bodies at the hair cell's presynaptic active zone. Issa NP, et al. **J Neurocytol** 1996 Apr;25(4):257–66
Pattern formation in the basilar papilla: evidence for cell rearrangement. Goodyear R, et al. **J Neurosci** 1997 Aug 15;17(16):6289–301

DRUG EFFECTS

Protection of both auditory hair cells and auditory neurons from cisplatin induced damage. Gabaizadeh R, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):232–8
Effects of protein kinase C on the Na(+)-H+ exchange in the cochlear outer hair cell. Ikeda K, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):828–32
Monitoring of cisplatin ototoxicity by distortion-product otoacoustic emissions. Ozturan O, et al. **Auris Nasus Larynx** 1996;23:147–51
Growth factors as potential drugs for the sensory epithelia of the ear. Corwin JT, et al. **Ciba Found Symp** 1996; 196:167–82; discussion 182–7 (80 ref.)
Effects of ionomer cement on guinea pig cochleas. Kobayashi T, et al. **Ear Nose Throat J** 1997 Apr;76(4):223–6, 228, 230
Differential damage to auditory neurons and hair cells by ototoxins and neuroprotection by specific neurotrophins in rat cochlear organotypic cultures. Zheng JL, et al. **Eur J Neurosci** 1996 Sep;8(9):1897–905
Secretion of a new basal layer of tectorial membrane following gentamicin-induced hair cell loss. Epstein JE, et al. **Hear Res** 1995 Oct;90(1–2):31–43
Reactive oxygen species in chick hair cells after gentamicin exposure in vitro. Hirose K, et al. **Hear Res** 1997 Feb; 104(1–2):1–14
Gadolinium blocks mechano-electric transducer current in chick cochlear hair cells. Kimitsuki T, et al. **Hear Res** 1996 Nov 1;101(1–2):75–80
Gentamicin distribution in the basilar papilla: possible association with regenerated hair cell orientation. Komeda M, et al. **Hear Res** 1996 Dec 1;102(1–2):81–9
Acetylcholine, outer hair cell electromotility, and the cochlear amplifier. Dallos P, et al. **J Neurosci** 1997 Mar 15;17(6):2212–26
Hair cell differentiation in chick cochlear epithelium after aminoglycoside toxicity: in vivo and in vitro observations. Stone JS, et al. **J Neurosci** 1996 Oct 1;16(19):6157–74
Acetylcholine activates two currents in guinea-pig outer hair cells. Evans MG. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):563–78
Modulation by purines of calcium-activated non-selective cation channels in the outer hair cells of the guinea-pig cochlea. Van den Abbeele T, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):77–89
Proliferation in the auditory receptor epithelium mediated by a cyclic AMP-dependent signaling pathway [see comments] Navaratnam DS, et al. **Nat Med** 1996 Oct; 2(10):1136–9. Comment in: Nat Med 1996 Oct;2(10):1082–3.
NT-3 and/or BDNF therapy prevents loss of auditory neurons following loss of hair cells. Staecker H, et al. **Neuroreport** 1996 Mar 22;7(4):889–94

ENZYMOLOGY

Multiple myosin isozymes and hair-cell function. Gillespie PG, et al. **Cold Spring Harb Symp Quant Biol** 1996; 61:309–18 (79 ref.)
Phosphate analogs block adaptation in hair cells by inhibiting adaptation-motor force production. Yamoah EN, et al. **Neuron** 1996 Sep;17(3):523–33

GROWTH & DEVELOPMENT

Tectorial membrane-organ of Corti relationship during cochlear development. Rueda J, et al. **Anat Embryol (Berl)** 1996 Nov;194(5):501–14

INJURIES

Regeneration after tall hair cell damage following severe acoustic trauma in adult pigeons: correlation between cochlear morphology, compound action potential responses and single fiber properties in single animals. Müller M, et al. **Hear Res** 1996 Dec 1;102(1–2):133–54
Re-innervation patterns of chick auditory sensory epithelium after acoustic overstimulation. Wang Y, et al. **Hear Res** 1996 Aug;97(1–2):11–8

METABOLISM

Comparison of the effects of trimethyltin on the intracellular calcium levels in spiral ganglion cells and outer hair cells. Liu Y, et al. **Acta Otolaryngol (Stockh)** 1996 May; 116(3):417–21
Distribution of Ca2+ channels on cochlear outer hair cells revealed by fluorescent dihydropyridines. Oshima T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C944–9
Positive feedback by a potassium-selective inward rectifier enhances tuning in vertebrate hair cells. Goodman MB, et al. **Biophys J** 1996 Jul;71(1):430–42
The hair cell acetylcholine receptors: a synthesis. Guth PS, et al. **Hear Res** 1996 Sep 1;98(1–2):1–8 (68 ref.)
Antibodies to the sulphated, high molecular mass mouse tectorin stain hair bundles and the olfactory mucus layer. Killick R, et al. **Hear Res** 1997 Jan;103(1–2):131–41
Potential role of bFGF and retinoic acid in the regeneration of chicken cochlear hair cells. Lee KH, et al. **Hear Res** 1996 May;94(1–2):1–13
An RT-PCR analysis of mRNA for growth factor receptors in damaged and control sensory epithelia of rat utricles. Saffer LD, et al. **Hear Res** 1996 May;94(1–2):14–23
Transforming growth factor alpha treatment alters intracellular calcium levels in hair cells and protects them from ototoxic damage in vitro. Staecker H, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):553–62
Sorting of actin isoforms in chicken auditory hair cells. Höfer D, et al. **J Cell Sci** 1997 Mar;110 (Pt 6):765–70
The glutamate receptor subunit deltaI is highly expressed in hair cells of the auditory and vestibular systems. Safieddine S, et al. **J Neurosci** 1997 Oct 1;17(19):7523–31
Inwardly rectifying currents in hair cells and supporting cells in the goldfish sacculus. Sugihara I, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):665–79
CSlo encodes calcium-activated potassium channels in the chick's cochlea. Jiang GJ, et al. **Proc R Soc Lond B Biol Sci** 1997 May 22;264(1382):731–7

PATHOLOGY

Tuning, spontaneous activity and tonotopic map in chicken cochlear ganglion neurons following sound-induced hair cell loss and regeneration. Chen L, et al. **Hear Res** 1996 Sep 1;98(1–2):152–64
Cochlear spiral ganglion cell degeneration in wild-caught mice as a function of age. Dazert S, et al. **Hear Res** 1996 Oct;100(1–2):101–6
Hair cell differentiation in chick cochlear epithelium after aminoglycoside toxicity: in vivo and in vitro observations. Stone JS, et al. **J Neurosci** 1996 Oct 1;16(19):6157–74
[Continuous proliferation of supporting cells and indications for hair cell differentiation in the inner ear of adult song birds with genetic cochlear hearing loss] Gleich O, et al. **HNO** 1996 Jun;44(6):307–12 (Eng. Abstr.) **(Ger)**
[Electrophysiological study of inner ear barotrauma in guinea pigs; comparison with scanning electron microscopic findings] Tsuge H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Mar;100(3):307–15 (Eng. Abstr.) **(Jpn)**
[Quantitative analysis of the relationship between negative anoxic EP and the number of missing outer hair cells in the guinea pig] Yasuta H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Mar;100(3):316–25 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

The role of the neurotrophins in maturation and maintenance of postnatal auditory innervation. Staecker H, et al. **Am J Otol** 1996 May;17(3):486–92

Hair cell regeneration in the avian cochlea. Cotanche DA. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:9–15 (61 ref.)

Multiple myosin motors and mechanoelectrical transduction by hair cells. Gillespie PG. **Biol Bull** 1997 Feb; 192(1):186–90 (21 ref.)

ATPase activity of myosin in hair bundles of the bullfrog's sacculus. Burlacu S, et al. **Biophys J** 1997 Jan;72(1):263–71

Endogenous buffers limit the spread of free calcium in hair cells. Hall JD, et al. **Biophys J** 1997 Sep;73(3):1243–52

A theoretical study of calcium microdomains in turtle hair cells. Wu YC, et al. **Biophys J** 1996 Nov;71(5):2256–75

Potassium currents in presynaptic hair cells of Hermissenda. Yamoah EN. **Biophys J** 1997 Jan;72(1):193–203

Regenerated hair cells exhibit a transient resistance to aminoglycoside toxicity. Hashino E, et al. **Brain Res** 1996 May 13;720(1–2):172–82

Changes in the tonotopic map of the dorsal cochlear nucleus in hamsters with hair cell loss and radial nerve bundle degeneration. Meleca RJ, et al. **Brain Res** 1997 Mar 7; 750(1–2):201–13

Development of the auditory receptors of the rat: a SEM study. Zine A, et al. **Brain Res** 1996 May 20;721(1–2):49–58

Confocal–microscopic visualization of membrane addition during synaptic exocytosis at presynaptic active zones of hair cells. Hudspeth AJ, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:303–7

Synaptic transmission at vertebrate hair cells. Fuchs PA. **Curr Opin Neurobiol** 1996 Aug;6(4):514–9 (54 ref.)

Mechanical amplification of stimuli by hair cells. Hudspeth A. **Curr Opin Neurobiol** 1997 Aug;7(4):480–6 (67 ref.)

Hair bundles of sea anemones as a model system for vertebrate hair bundles. Watson GM, et al. **Hear Res** 1997 May;107(1–2):53–66

Conditional immortalization of hair cells from the inner ear. Holley MC, et al. **Int J Dev Neurosci** 1997 Jul; 15(4–5):541–52

Does the organ of Corti attempt to differentiate new hair cells after antibiotic intoxication in rat pups? Lenoir M, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):487–95

Cellular interactions as a response to injury in the organ of Corti in culture. Sobkowicz HM, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):463–85

Intermodulation components in inner hair cell and organ of Corti responses. Cheatham MA, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1038–48

A theoretical basis for the high–frequency performance of the outer hair cell's receptor potential. Hassan el–S. **J Acoust Soc Am** 1997 Apr;101(4):2129–34

Otoacoustic emissions, hair cells, and myosin motors. Manley GA, et al. **J Acoust Soc Am** 1997 Aug;102(2 Pt 1):1049–55

A functional model of the hair cell–primary fiber complex. Ross S. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2221–38

Fluid–structure interaction of the stereocilia bundle in relation to mechanotransduction. Zetes DE, et al. **J Acoust Soc Am** 1997 Jun;101(6):3593–601

Hair cell regeneration and recovery of the vestibuloocular reflex in the avian vestibular system. Carey JP, et al. **J Neurophysiol** 1996 Nov;76(5):3301–12

Voltage–dependent potassium currents in cochlear hair cells of the embryonic chick. Griguer C, et al. **J Neurophysiol** 1996 Jan;75(1):508–13

Rapid, active hair bundle movements in hair cells from the bullfrog's sacculus. Benser ME, et al. **J Neurosci** 1996 Sep 15;16(18):5629–43

Unique postsynaptic signaling at the hair cell efferent synapse permits calcium to evoke changes on two time scales. Sridhar TS, et al. **J Neurosci** 1997 Jan 1;17(1):428–37

Regenerative proliferation in organ cultures of the avian cochlea: identification of the initial progenitors and determination of the latency of the proliferative response. Warchol ME, et al. **J Neurosci** 1996 Sep 1;16(17):5466–77

The effects of calcium buffering and cyclic AMP on mechano–electrical transduction in turtle auditory hair cells. Ricci AJ, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):111–24

Monitoring calcium in turtle hair cells with a calcium–activated potassium channel. Tucker TR, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):613–26

Stimulating hair cell regeneration: on a wing and a prayer [comment] Rubel EW, et al. **Nat Med** 1996 Oct; 2(10):1082–3. Comment on: Nat Med 1996 Oct;2(10):1136–9.

Sound emission from cochlear filters and foveae—does the auditory sense organ make sense? Kössl M. **Naturwissenschaften** 1997 Jan;84(1):9–16 (65 ref.)

Potassium currents of pear–shaped hair cells in relation to their location in frog crista ampullaris. Prigioni I, et al. **Neuroreport** 1996 Jul 29;7(11):1841–5

The spontaneous appearance of hair cell–like cells in the mammalian cochlea following aminoglycoside ototoxicity. Romand R, et al. **Neuroreport** 1996 Dec 20;8(1):133–7

Off–oscillation in hair cell membrane is correlated with the decremental response at the hair cell–afferent fibre synapse in the goldfish sacculus. Sugihara I, et al. **Neuroreport** 1996 Oct 2;7(14):2341–6

New hair cells arise from supporting cell conversion in the acoustically damaged chick inner ear [published erratum appears in Neurosci Lett 1996 May 24;210(1):73] Adler HJ, et al. **Neurosci Lett** 1996 Feb 16;205(1):17–20

Acoustic modulation of electrically evoked distortion product otoacoustic emissions in gerbil cochlea. Ren T. **Neurosci Lett** 1996 Apr 5;207(3):167–70

Row–to–row horizontal links may be associated with the transduction channels of hair cells. Gitter AH. **ORL J Otorhinolaryngol Relat Spec** 1996 Jan–Feb;58(1):1–3

The location of the cochlear amplifier: spatial representation of a single tone on the guinea pig basilar membrane. Russell IJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2660–4

Regeneration of broken tip links and restoration of mechanical transduction in hair cells. Zhao Y, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15469–74

Kinematic analysis of shear displacement as a means for operating mechanotransduction channels in the contact region between adjacent stereocilia of mammalian cochlear hair cells. Furness DN, et al. **Proc R Soc Lond B Biol Sci** 1997 Jan 22;264(1378):45–51

PHYSIOPATHOLOGY

Otoacoustic emission amplification after inner hair cell damage. Wake M, et al. **Acta Otolaryngol (Stockh)** 1996 May;116(3):374–81

Quantitative measures of hair cell loss in CBA and C57BL/6 mice throughout their life spans. Spongr VP, et al. **J Acoust Soc Am** 1997 Jun;101(6):3546–53

ULTRASTRUCTURE

Post–traumatic survival and recovery of the auditory sensory cells in culture. Sobkowicz HM, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):257–62

The ultrastructure of the sensory hairs of the paratympanic organ receptor cells in chicken. Giannessi F, et al. **Anat Embryol (Berl)** 1996 Jun;193(6):569–75

Compartmentalized vesicular traffic around the hair cell cuticular plate. Kachar B, et al. **Hear Res** 1997 May; 107(1–2):102–12

Hair bundles of sea anemones as a model system for vertebrate hair bundles. Watson GM, et al. **Hear Res** 1997 May;107(1–2):53–66

Morphological evidence for supporting cell to hair cell conversion in the mammalian utricular macula. Li L, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):433–46

Effects of low–frequency underwater sound on hair cells of the inner ear and lateral line of the teleost fish Astronotus ocellatus. Hastings MC, et al. **J Acoust Soc Am** 1996 Mar; 99(3):1759–66

Evidence for supporting cell proliferation and hair cell differentiation in the basilar papilla of adult Belgian Waterslager canaries (Serinus canarius). Gleich O, et al. **J Comp Neurol** 1997 Jan 6;377(1):5–14

Ultrastructural differences among afferent synapses on cochlear hair cells: correlations with spontaneous discharge rate. Merchan–Perez A, et al. **J Comp Neurol** 1996 Jul 22; 371(2):208–21

Compound synapses within the GABAergic innervation of the auditory inner hair cells in the adolescent mouse. Sobkowicz HM, et al. **J Comp Neurol** 1997 Jan 20; 377(3):423–42

Anatomical basis of a congenital hearing impairment: basilar papilla dysplasia in the Belgian Waterslager canary. Weisleder P, et al. **J Comp Neurol** 1996 May 27; 369(2):292–301

Comparative electronmicroscopical investigations on the influences of altered gravity on cytochrome oxidase in the inner ear of fish: a spaceflight study. Nindl G, et al. **J Hirnforsch** 1996;37(3):291–300

Electron microscopic differentiation of directly and transneuronally transported DiI and applications for studies of synaptogenesis. Bruce LL, et al. **J Neurosci Methods** 1997 Apr 25;73(1):107–12

Plasmalemmal ATPase calcium pump localizes to inner and outer hair bundles. Apicella S, et al. **Neuroscience** 1997 Aug;79(4):1145–51

Discrete cellular and subcellular localization of glutamine synthetase and the glutamate transporter GLAST in the rat vestibular end organ. Takumi Y, et al. **Neuroscience** 1997 Aug;79(4):1137–44

Ultrastructural localization of glutamate and aspartate immunoreactivities in gerbil inner hair cells. Liu TC. **ORL J Otorhinolaryngol Relat Spec** 1997 May–Jun; 59(3):131–4

HAIR CELLS, INNER

ANATOMY & HISTOLOGY

Efferent innervation of the inner hair cell region: origins and terminations of two lateral olivocochlear systems. Warr WB, et al. **Hear Res** 1997 Jun;108(1–2):89–111

CHEMISTRY

Ontogenesis of rat cochlea. A quantitative study of the organ of Corti. Mu MY, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):29–37

Neurofilament proteins in avian auditory hair cells. Oesterle EC, et al. **J Comp Neurol** 1997 Mar 24;379(4):603–16

Localization of proteins associated with the outer hair cell plasma membrane in the gerbil cochlea. Zine A, et al. **Neuroscience** 1997 Oct;80(4):1247–54

CYTOLOGY

Low–voltage field–emission scanning electron microscopy of non–coated guinea–pig hair cell stereocilia. Dunnebier EA, et al. **Hear Res** 1995 Oct;90(1–2):139–48

Intensity–dependent peak shift in cochlear transfer functions at the cellular level, its elimination by sound exposure, and its possible underlying mechanisms. Zhang M, et al. **Hear Res** 1996 Jul;96(1–2):46–58

Neurotrophins can enhance spiral ganglion cell survival after inner hair cell loss. Miller JM, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):631–43

DRUG EFFECTS

Electrical stimulation activates two different sites within the guinea pig cochlea. Nicolas–Puel C, et al. **Hear Res** 1996 Oct;100(1–2):181–91

Dopamine regulates the glutamatergic inner hair cell activity in guinea pigs. Oestreicher E, et al. **Hear Res** 1997 May; 107(1–2):46–52

Selective inner hair cell loss does not alter distortion product otoacoustic emissions. Trautwein P, et al. **Hear Res** 1996 Jul;96(1–2):71–82

4–Aminopyridine effects on summating potentials in the guinea pig. van Emst MG, et al. **Hear Res** 1996 Dec 1; 102(1–2):70–80

ENZYMOLOGY

Expression of adenylyl cyclase type I in cochlear inner hair cells. Drescher MJ, et al. **Brain Res Mol Brain Res** 1997 May;45(2):325–30

METABOLISM

Of known neurotransmitters, glutamate is the most likely to be released from chick cochlear hair cells. Kataoka Y, et al. **J Neurophysiol** 1996 Sep;76(3):1870–9

PATHOLOGY

The effects of moderate and low levels of acoustic overstimulation on stereocilia and their tip links in the guinea pig. Clark JA, et al. **Hear Res** 1996 Sep 15; 99(1–2):119–28

PHYSIOLOGY

Suppression in auditory–nerve fibers of cats using low–side suppressors. III. Model results. Cai Y, et al. **Hear Res** 1996 Jul;96(1–2):126–40

Low–frequency modulation of inner hair cell and organ of Corti responses in the guinea pig cochlea. Cheatham MA, et al. **Hear Res** 1997 Jun;108(1–2):191–212

Dopamine regulates the glutamatergic inner hair cell activity in guinea pigs. Oestreicher E, et al. **Hear Res** 1997 May; 107(1–2):46–52

Effects of selective inner hair cell loss on auditory nerve fiber threshold, tuning and spontaneous and driven discharge rate. Wang J, et al. **Hear Res** 1997 May; 107(1–2):67–82

Further evidence for supporting cell conversion in the damaged avian basilar papilla. Adler HJ, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):375–85

Factors modulating supernumerary hair cell production in the postnatal rat cochlea in vitro. Chardin S, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):497–507

Cochlear inner hair cells exist transiently in the fetal Bronx Waltzer (bv/bv) mouse. Whitlon DS, et al. **J Comp Neurol** 1996 Jan 15;364(3):515–522

Theoretical anaiysis of intercellular communication between the vestibular type I hair cell and its calyx ending. Goldberg JM. **J Neurophysiol** 1996 Sep;76(3):1942–57

Electrical filtering in gerbil isolated type I semicircular canal hair cells. Rennie KJ, et al. **J Neurophysiol** 1996 May; 75(5):2117–23

[Electrical response recording of cochlear hair cells in vivo] Wu W, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1996;31(1):20–3 (Eng. Abstr.) **(Chi)**

PHYSIOPATHOLOGY

Synaptic repair mechanisms responsible for functional recovery in various cochlear pathologies. Puel JL, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):214–8

Recording from the inferior colliculus following cochlear inner hair cell damage. Wake M, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):714–20

ULTRASTRUCTURE

Olivocochlear innervation of inner and outer hair cells during postnatal maturation: an immunocytochemical study. Simmons DD, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):213–26

Localization of proteins associated with the outer hair cell plasma membrane in the gerbil cochlea. Zine A, et al. **Neuroscience** 1997 Oct;80(4):1247–54

HAIR CELLS, OUTER

HAIR CELLS, OUTER

ANATOMY & HISTOLOGY

Outer hair cell morphology related to function. Slepecky NB. **Ear Nose Throat J** 1997 Mar;76(3):145–50

[High resolution scanning electron microscopy of isolated outer hair cells] Koitschev A, et al. **HNO** 1996 Nov; 44(11):630–3 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Ontogenesis of rat cochlea. A quantitative study of the organ of Corti. Mu MY, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):29–37

CYTOLOGY

Preservation of the non-rectangular cuticular plate/cell axis angle of outer hair cells. Kempf HG, et al. **Eur Arch Otorhinolaryngol** 1996;253(1–2):5–10

Low-voltage field-emission scanning electron microscopy of non-coated guinea-pig hair cell stereocilia. Dunnebier EA, et al. **Hear Res** 1995 Oct;90(1–2):139–48

The course and distribution of medial efferent fibers in the cochlea of the mustached bat. Henson MM, et al. **Hear Res** 1996 Dec 1;102(1–2):99–115

Human otosclerotic bone-derived peptide decreases the gain of the electromotility in isolated outer hair cells. Sziklai I. **Hear Res** 1996 May;95(1–2):100–7

Frequency response for electromotility of isolated outer hair cells of the guinea pig. Wit HP, et al. **Hear Res** 1996 Sep 1;98(1–2):165–8

Intensity-dependent peak shift in cochlear transfer functions at the cellular level, its elimination by sound exposure, and its possible underlying mechanisms. Zhang M, et al. **Hear Res** 1996 Jul;96(1–2):46–58

Postnatal changes in the reticular lamina of the guinea pig organ of Corti. Zhou S, et al. **Hear Res** 1996 Oct; 100(1–2):33–40

DRUG EFFECTS

Effect of leukotriene inhibitor on salicylate induced morphologic changes of isolated cochlear outer hair cells. Jung TT, et al. **Acta Otolaryngol (Stockh)** 1997 Mar; 117(2):258–64

Cisplatin metabolites and their toxicity on isolated cochlear outer hair cells in vitro. Saito T, et al. **Acta Otolaryngol (Stockh)** 1996 Jul;116(4):561–5

Cholinergic responses in developing outer hair cells of the rat cochlea. Dulon D, et al. **Eur J Neurosci** 1996 Sep; 8(9):1945–52

D-methionine provides excellent protection from cisplatin ototoxicity in the rat. Campbell KC, et al. **Hear Res** 1996 Dec 1;102(1–2):90–8

Differences in cholinergic responses from outer hair cells of rat and guinea pig. Chen C, et al. **Hear Res** 1996 Sep 1;98(1–2):9–17

Sensitive developmental periods for kanamycin ototoxic effects on distortion-product otoacoustic emissions. Henley CM, et al. **Hear Res** 1996 Sep 1;98(1–2):93–103

Time-varying alterations in the f2–f1 DPOAE response to continuous primary stimulation. II. Influence of local calcium-dependent mechanisms. Kujawa SG, et al. **Hear Res** 1996 Aug;97(1–2):153–64

Acetylcholine response in guinea pig outer hair cells. I. Properties of the response. Nenov AP, et al. **Hear Res** 1996 Nov 1;101(1–2):132–48

Acetylcholine response in guinea pig outer hair cells. II. Activation of a small conductance Ca(2+)-activated K+ channel. Nenov AP, et al. **Hear Res** 1996 Nov 1; 101(1–2):149–72

Effect of acetylcholine and GABA on the transfer function of electromotility in isolated outer hair cells. Sziklai I, et al. **Hear Res** 1996 May;95(1–2):87–99

Selective inner hair cell loss does not alter distortion product otoacoustic emissions. Trautwein P, et al. **Hear Res** 1996 Jul;96(1–2):71–82

4-Aminopyridine effects on summating potentials in the guinea pig. van Emst MG, et al. **Hear Res** 1996 Dec 1; 102(1–2):70–80

Reversible hearing impairment induced by lithium in the guinea pig. Horner KC, et al. **Neuroreport** 1997 Apr 14; 8(6):1341–5

Attenuation of aminoglycoside ototoxicity by glutathione. Nishida I, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Mar-Apr;58(2):68–73

Changes in otoacoustic emissions and auditory brain stem response after cis-platinum exposure in gerbils. Sie KC, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):585–92

Toluene disrupts outer hair cell morphometry and intracellular calcium homeostasis in cochlear cells of guinea pigs. Liu Y, et al. **Toxicol Appl Pharmacol** 1997 Feb; 142(2):270–7

ENZYMOLOGY

Development of intracellular Ca-ATPase in the gerbil outer hair cell lateral wall. Zine A, et al. **Brain Res** 1996 May 20;721(1–2):1–10

Subcellular distribution of protein kinase C in the living outer hair cell of the guinea pig cochlea. Ueda N, et al. **Hear Res** 1996 May;94(1–2):24–30

METABOLISM

Pre- and postsynaptic M3 muscarinic receptor mRNAs in the rodent peripheral auditory system. Safieddine S, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):127–35

No evidence for functional GABA receptors in outer hair cells isolated from the apical half of the guinea-pig cochlea. Evans MG, et al. **Hear Res** 1996 Nov 1;101(1–2):1–6

PATHOLOGY

The effects of moderate and low levels of acoustic overstimulation on stereocilia and their tip links in the guinea pig. Clark JA, et al. **Hear Res** 1996 Sep 15; 99(1–2):119–28

PHYSIOLOGY

Hyposmotic swelling induces magnitude and gain change in the electromotile performance of isolated outer hair cells. Sziklai I, et al. **Acta Otolaryngol (Stockh)** 1997 Mar; 117(2):222–5

A model for cochlear outer hair cell deformations in micropipette aspiration experiments: an analytical solution. Spector AA, et al. **Ann Biomed Eng** 1996 Jul-Aug; 24(4):241–9

Substance P decreases the non-selective cation channel conductance in dissociated outer hair cells of guinea pig cochlea. Kakehata S, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:476–9

Outer hair cells: the inside story. Dallos P. **Ann Otol Rhinol Laryngol Suppl** 1997 May;168:16–22

Viscoelastic relaxation in the membrane of the auditory outer hair cell. Ehrenstein D, et al. **Biophys J** 1996 Aug; 71(2):1087–94

Cochlear outer hair cell bending in an external electric field. Frolenkov GI, et al. **Biophys J** 1997 Sep;73(3):1665–72

Force generation in the outer hair cell of the cochlea. Iwasa KH, et al. **Biophys J** 1997 Jul;73(1):546–55

Mapping the distribution of outer hair cell voltage-dependent conductances by electrical amputation. Santos-Sacchi J, et al. **Biophys J** 1997 Sep;73(3):1424–9

Micropipette aspiration on the outer hair cell lateral wall. Sit PS, et al. **Biophys J** 1997 Jun;72(6):2812–9

Mechanical properties of the lateral cortex of mammalian auditory outer hair cells. Tolomeo JA, et al. **Biophys J** 1996 Jul;71(1):421–9

Outer hair cell morphology related to function. Slepecky NB. **Ear Nose Throat J** 1997 Mar;76(3):145–50

Suppression in auditory-nerve fibers of cats using low-side suppressors. III. Model results. Cai Y, et al. **Hear Res** 1996 Jul;96(1–2):126–40

Outwardly rectifying currents in guinea pig outer hair cells. Nenov AP, et al. **Hear Res** 1997 Mar;105(1–2):146–58

Measurements and a model of the outer hair cell hydraulic conductivity. Ratnanather JT, et al. **Hear Res** 1996 Jul; 96(1–2):33–40

Relationship between the development of outer hair cell electromotility and efferent innervation: a study in cultured organ of corti of neonatal gerbils. He DZZ. **J Neurosci** 1997 May 15;17(10):3634–43

Effects of salicylate and lanthanides on outer hair cell motility and associated gating charge. Kakehata S, et al. **J Neurosci** 1996 Aug 15;16(16):4881–9

Differential expression of outer hair cell potassium currents in the isolated cochlea of the guinea-pig. Mammano F, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):639–46

Variation in expression of the outer hair cell P2X receptor conductance along the guinea-pig cochlea. Rayboulld NP, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):717–27

An intrinsic frequency limit to the cochlear amplifier. Gale JE, et al. **Nature** 1997 Sep 4;389(6646):63–6

The outer hair cell motor in membrane patches. Gale JE, et al. **Pflugers Arch** 1997 Jul;434(3):267–71

A quantitative comparison of mechanoelectrical transduction in vestibular and auditory hair cells of neonatal mice. Géléoc GS, et al. **Proc R Soc Lond B Biol Sci** 1997 Apr 22;264(1381):611–21

[Electrical response recording of cochlear hair cells in vivo] Wu W, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1996;31(1):20–3 (Eng. Abstr.) **(Chi)**

[Increased amplitude of distortion product emissions in the human caused by contralateral low intensity acoustic stimulation] Nieschalk M, et al. **HNO** 1997 May; 45(5):378–84 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Cochlear amplification and its pathology: emphasis on the role of the tectorial membrane. Gummer AW, et al. **Ear Nose Throat J** 1997 Mar;76(3):151–8, 160, 162–3 (95 ref.)

The role of outer hair cell damage in the loss of hearing. Zenner HP. **Ear Nose Throat J** 1997 Mar;76(3):140, 143–4

ULTRASTRUCTURE

Micropipette aspiration on the outer hair cell lateral wall. Sit PS, et al. **Biophys J** 1997 Jun;72(6):2812–9

Olivocochlear innervation of inner and outer hair cells during postnatal maturation: an immunocytochemical study. Simmons DD, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):213–26

Synaptic specializations associated with the outer hair cells of the Japanese macaque. Sato M, et al. **Hear Res** 1997 Jun;108(1–2):46–54

HAIR CELLS, VESTIBULAR

DRUG EFFECTS

Effect of histamine on intracellular Ca2+ concentration in guinea pig isolated vestibular hair cells. Tomoda K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:37–40

Cell death caused by the acute effects of aminoglycoside and zinc in the ampullary cristae of guinea pigs. Nakagawa T, et al. **Eur Arch Otorhinolaryngol** 1997;254(3):153–7

Gentamicin ototoxicity induced apoptosis of the vestibular hair cells of guinea pigs. Nakagawa T, et al. **Eur Arch Otorhinolaryngol** 1997;254(1):9–14

Cyclic GMP inhibits and shifts the activation curve of the delayed-rectifier (I[K1]) of type I mammalian vestibular hair cells. Behrend O, et al. **Neuroreport** 1997 Aug 18; 8(12):2687–90

Prenatal lesioning of vestibular organ by aminoglycosides. Deguine O, et al. **Neuroreport** 1996 Nov 4;7(15–17):2435–8

Comparison of behavioral, vestibular, and axonal effects of subchronic IDPN in the rat. Llorens J, et al. **Neurotoxicol Teratol** 1997 Mar-Apr;19(2):117–27

EMBRYOLOGY

Essential role of POU-domain factor Brn-3c in auditory and vestibular hair cell development. Xiang M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9445–50

PATHOLOGY

Degenerative hairlets on the vestibular sensory cells in mutant bustling (BUS/Idr) mice. Moriyama K, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):20–4

PHYSIOLOGY

Jean Marquet Award. Regeneration of the neurosensory structures in the mammalian inner ear. Lefebvre P, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):1–10

Incremental redistribution of protein kinase C underlies the acquisition curve during in vitro associative conditioning in Hermissenda. Muzzio IA, et al. **Behav Neurosci** 1997 Aug;111(4):739–53

Quantification of the process of hair cell loss and recovery in the chinchilla crista ampullaris after gentamicin treatment. Lopez I, et al. **Int J Dev Neurosci** 1997 Jul; 15(4–5):447–61

Ionic currents in regenerating avian vestibular hair cells. Masetto S, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):387–99

Calbindin and parvalbumin are early markers of non-mitotically regenerating hair cells in the bullfrog vestibular otolith organs. Steyger PS, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):417–32

Inactivation of delayed rectifier K+ current in semicircular canal hair cells. Russo G, et al. **Neuroreport** 1996 Sep 2; 7(13):2143–6

The delayed rectifier, IKI, is the major conductance in type I vestibular hair cells across vestibular end organs. Ricci AJ, et al. **Pflugers Arch** 1996 May;432(1):34–42

A quantitative comparison of mechanoelectrical transduction in vestibular and auditory hair cells of neonatal mice. Géléoc GS, et al. **Proc R Soc Lond B Biol Sci** 1997 Apr 22;264(1381):611–21

[Motility and cytoskeleton of isolated vestibular hair cells of the guinea pig] Miyawaki H. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Nov;99(11):1653–61 (Eng. Abstr.) **(Jpn)**

[Motility of the vestibular hair cell of the guinea pig and bull frog] Tanigawa T. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Feb;100(2):264–75 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Novel afferent terminal structure in the crista ampullaris of the goldfish, carassius auratus. Lanford PJ, et al. **J Comp Neurol** 1996 Mar 18;366(4):572–9

The morphological differences of stereocilia and cuticular plates between type-I and type-II hair cells of human vestibular sensory epithelia. Morita I, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jul-Aug; 59(4):193–7

[Scanning electron microscopic observation of human vestibular sensory epithelia] Sun J, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(6):326–8 (Eng. Abstr.) **(Chi)**

HAIR COLOR

Premature gray hair and coronary artery disease [letter; comment] Gould L. **Am Heart J** 1996 Dec;132(6):1317. Comment on: Am Heart J 1995 Nov;130(5):1003–10.

Premature grey hair and hair loss among smokers: a new opportunity for health education? Mosley JG, et al. **BMJ** 1996 Dec 21–28;313(7072):1616

Diffuse heterochromia of scalp hair. Lee WS, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 2):823–5

The effect of hair color on the incorporation of methadone into hair in the rat. Green SJ, et al. **J Anal Toxicol** 1996 Mar-Apr;20(2):121–3

Why do gentlemen prefer blondes? Ramachandran VS. **Med Hypotheses** 1997 Jan;48(1):19–20

Pluripotential rabbit embryonic stem (ES) cells are capable of forming overt coat color chimeras following injection into blastocysts. Schoonjans L, et al. **Mol Reprod Dev** 1996 Dec;45(4):439–43

Intracameral ascorbic acid, glutathione and protein levels in albino and pigmented rabbits. Numata K, et al. **Ophthalmic Res** 1995;27(6):347–9

Seasonal adjustment of solar heat gain independent of coat coloration in a desert mammal. Walsberg GE, et al. **Physiol Zool** 1997 Mar–Apr;70(2):150–7

[A case of vitamin B12 deficiency with broad neurologic disorders and canities] Katsuoka H, et al. **No To Shinkei** 1997 Mar;49(3):283–6 (Eng. Abstr.) **(Jpn)**

[The volumetric density of the hair pigment with different regional affiliations of the inhabitants of Asia, Africa i Latin America] Pavlov IuV, et al. **Sud Med Ekspert** 1996 Jul–Sep; 39(3):37–40 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Alpha interferon–induced hair discolouration [letter] Fleming CJ, et al. **Br J Dermatol** 1996 Aug;135(2):337–8

Trypsin–induced follicular papilla apoptosis results in delayed hair growth and pigmentation. Seiberg M, et al. **Dev Dyn** 1997 Apr;208(4):553–64

Effect of pigmentation on the drug deposition in hair of grey–haired subjects. Rothe M, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):53–60

Green hair discoloration due to selenium sulfide [letter] Fitzgerald EA, et al. **Int J Dermatol** 1997 Mar;36(3):238–9

GENETICS

Assignment of genes coding for brown eye colour (BEY2) and brown hair colour (HCL3) on chromosome 15q. Eiberg H, et al. **Eur J Hum Genet** 1996;4(4):237–41

Molecular basis of the pleiotropic phenotype of mice carrying the hypervariable yellow (Ahvy) mutation at the agouti locus. Argeson AC, et al. **Genetics** 1996 Feb;142(2):557–67

Coupled site–directed mutagenesis/transgenesis identifies important functional domains of the mouse agouti protein. Perry WL, et al. **Genetics** 1996 Sep;144(1):255–64

The extension coat color locus and the loci for blood group O and tyrosine aminotransferase are on pig chromosome 6. Mariani P, et al. **J Hered** 1996 Jul–Aug;87(4):272–6

Coat color genetics of Peromyscus: V. California blonde, a new recessive mutation in the deer mouse. Roth VL, et al. **J Hered** 1996 Sep–Oct;87(5):403–6

Black crystal: a novel color mutant in the American mink (Mustela vision Schreber). Trapezov OV. **J Hered** 1997 Mar–Apr;88(2):164–6

Coat color alleles in the domestic cat populations at the Adriatic Coast. Wagner A. **J Hered** 1996 Nov–Dec; 87(6):473–5

Pigs with the dominant white coat color phenotype carry a duplication of the KIT gene encoding the mast/stem cell growth factor receptor. Johansson Moller M, et al. **Mamm Genome** 1996 Nov;7(11):822–30

A missense mutation in the gene for melanocyte–stimulating hormone receptor (MC1R) is associated with the chestnut coat color in horses. Marklund L, et al. **Mamm Genome** 1996 Dec;7(12):895–9

A non–epistatic interaction of agouti and extension in the fox, Vulpes vulpes. Våge DI, et al. **Nat Genet** 1997 Mar; 15(3):311–5

Identification of the homologous beige and Chediak–Higashi syndrome genes [published erratum appears in Nature 1997 Jan 2;385(6611):97] Barbosa MD, et al. **Nature** 1996 Jul 18;382(6588):262–5

Comparative action spectrum for ultraviolet light killing of mouse melanocytes from different genetic coat color backgrounds. Hill HZ, et al. **Photochem Photobiol** 1997 Jun;65(6):983–9

Quantitative analysis of striped coat–color patterns in Large White––>Duroc chimeric pigs with special reference to the genetic control mechanisms of the dominant black–eyed white phenotype. Inoué K, et al. **Pigment Cell Res** 1996 Dec;9(6):289–97

Genetic determination of coat color affects testicular steroidogenesis in the Mustela vison. Amador AG, et al. **Rev Esp Fisiol** 1996 Jun;52(2):83–8

The genetics of pigmentation: from fancy genes to complex traits. Barsh GS. **Trends Genet** 1996 Aug;12(8):299–305 (53 ref.)

[Reproduction of the water voles (Arvicola terrestris) polymorphic for the aguti locus] Bazhan NM, et al. **Genetika** 1996 Aug;32(8):1125–30 (Eng. Abstr.) **(Rus)**

[Variability of pheomelanin content in wool of Karakul lambs and the problem of phenetics of color] Latypov IF, et al. **Genetika** 1997 Mar;33(3):365–9 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Discrete thalamic lesions attenuate winter adaptations and increase body weight. Purvis CC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R226–35

Hair melanin and hair color. Castanet J, et al. **EXS** 1997; 78:209–25 (56 ref.)

Transgenic mice expressing IFN–gamma in the epidermis have eczema, hair hypopigmentation, and hair loss. Carroll JM, et al. **J Invest Dermatol** 1997 Apr;108(4):412–22

HAIR COLORANTS see **HAIR DYES**

HAIR DISEASES

Hair shaft abnormalities: Part II. Rogers M. **Australas J Dermatol** 1996 Feb;37(1):1–11 (40 ref.)

Pilomatrix carcinoma. Vico P, et al. **Eur J Surg Oncol** 1997 Aug;23(4):370–1

Epidermal nevus syndrome: association with central precocious puberty and woolly hair nevus. Tay YK, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 2):839–42

CHEMICALLY INDUCED

Growth of eyebrow after alpha interferon administration [letter] Ariyoshi K, et al. **Am J Hematol** 1996 Sep; 53(1):50–1

Latanoprost and hyperpigmentation of eyelashes [letter] Wand M. **Arch Ophthalmol** 1997 Sep;115(9):1206–8

Cosmetically induced hair beads. Itin PH, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):260–1

CLASSIFICATION

An update of hair shaft disorders. Dawber RP. **Dermatol Clin** 1996 Oct;14(4):753–72 (159 ref.)

COMPLICATIONS

Multiple familial pilomatricomas associated with myotonic dystrophy. Graells J, et al. **Int J Dermatol** 1996 Oct; 35(10):732–3

Multiple pilomatricomas in association with myotonic dystrophy and a family history of melanoma. Berberian BJ, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 1):268–9

A new case of trichothiodystrophy associated with autism, seizures, and mental retardation. Schepis C, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):125–8

[Pilomatrixoma associated with anetoderma] Bertazzoni MG, et al. **Pathologica** 1996 Feb;88(1):43–5 (Eng. Abstr.) **(Ita)**

[Neurocutaneous syndrome with hair alterations] Camacho–Martínez F. **Rev Neurol** 1997 Sep;25 Suppl 3:S243–9 (51 ref.) (Eng. Abstr.) **(Spa)**

CONGENITAL

Hair follicle nevus: case report and review of the literature. Davis DA, et al. **Pediatr Dermatol** 1996 Mar–Apr; 13(2):135–8 (24 ref.)

DIAGNOSIS

Loose anagen hair. Tosti A, et al. **Arch Dermatol** 1997 Sep; 133(9):1089–93

I think I'm losing my hair [see comments] Cargnello J. **Aust Fam Physician** 1997 Jun;26(6):683–7. Comment in: Aust Fam Physician 1997 Jun;26(6):637.

Trichorrhexis nodosa: a manifestation of hypothyroidism. Lurie R, et al. **Cutis** 1996 May;57(5):358–9

Fine needle aspiration (FNA) cytology of pilomatrixoma. Kumar N, et al. **Cytopathology** 1996 Apr;7(2):125–31

Loose anagen syndrome and loose anagen hair. Li VW, et al. **Dermatol Clin** 1996 Oct;14(4):745–51 (28 ref.)

The use of antidesmoglein stains in Mohs micrographic surgery. A potential aid for the differentiation of basal cell carcinoma from horizontal sections of the hair follicle and folliculocentric basaloid proliferation. Krunic AL, et al. **Dermatol Surg** 1997 Jun;23(6):463–8

Mimics of pilomatrixomas in fine–needle aspirates. Sánchez Sánchez C, et al. **Diagn Cytopathol** 1996 Feb;14(1):75–83 (28 ref.)

A case of generalized eruptive vellus hair cysts [letter] Kwon KS, et al. **J Dermatol** 1997 Aug;24(8):556–7

The comet assay as a repair test for prenatal diagnosis of Xeroderma pigmentosum and trichothiodystrophy. Alapetite C, et al. **J Invest Dermatol** 1997 Feb;108(2):154–9

[A case for diagnosis: pilomatrixoma] Aissoudi M, et al. **Ann Dermatol Venereol** 1995;122(11–12):797–8 **(Fre)**

[White genital piedra] Schwinn A, et al. **Hautarzt** 1996 Aug; 47(8):638–41 (32 ref.) (Eng. Abstr.) **(Ger)**

[Tufted hair folliculitis] Trüeb RM, et al. **Hautarzt** 1997 Apr; 48(4):266–9 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Failure of cyclosporine in Netherton's syndrome [letter] Braun RP, et al. **Dermatology** 1997;195(1):75

Pilocarpine gel for the treatment of demodicosis––a case series. Fulk GW, et al. **Optom Vis Sci** 1996 Dec; 73(12):742–5

ETIOLOGY

Hair growth in neonatally undernourished rats. Salas M, et al. **Bol Estud Med Biol** 1995 Jan–Dec;43(1–4):13–8

Auriculotemporal syndrome with canities [letter] Sedhom A, et al. **Br J Oral Maxillofac Surg** 1997 Jun;35(3):222

Hair & nail problems. Millikan LE. **Compr Ther** 1997 Jul; 23(7):477–81 (7 ref.)

Acquired pili torti––a structural hair shaft defect in anorexia nervosa. Lurie R, et al. **Cutis** 1996 Mar;57(3):151–6

Eruptive vellus hair cysts in a patient with ectodermal dysplasia. Romiti R, et al. **J Am Acad Dermatol** 1997 Feb; 36(2 Pt 1):261–2

[Different methods of evaluation––object assessment of hair loss and alopecia] Bouhanna P. **Schweiz Rundsch Med Prax** 1997 Jun 4;86(23):1000–3 (9 ref.) **(Fre)**

[Hair shaft anomalies] Itin PH. **Schweiz Rundsch Med Prax** 1997 Jun 4;86(23):982–6 (33 ref.) (Eng. Abstr.) **(Ger)**

GENETICS

bcl–2 expression in pilomatricoma. Farrier S, et al. **Am J Dermatopathol** 1997 Jun;19(3):254–7

A mutation in the XPB/ERCC3 DNA repair transcription gene, associated with trichothiodystrophy. Weeda G, et al. **Am J Hum Genet** 1997 Feb;60(2):320–9

Family with "pure" hair–nail ectodermal dysplasia. Barbareschi M, et al. **Am J Med Genet** 1997 Oct 3; 72(1):91–3

Stable SV40–transformation and characterisation of some DNA repair properties of fibroblasts from a trichothiodystrophy patient. Eveno E, et al. **Biochimie** 1995;77(11):906–12

Recovery of normal DNA repair and mutagenesis in trichothiodystrophy cells after transduction of the XPD human gene. Marionnet C, et al. **Cancer Res** 1996 Dec 1; 56(23):5450–6

The genetic basis of xeroderma pigmentosum and trichothiodystrophy syndromes. Stary A, et al. **Cancer Surv** 1996;26:155–71 (54 ref.)

Noninfectious hair disorders in children. Skelsey MA, et al. **Curr Opin Pediatr** 1996 Aug;8(4):378–80 (21 ref.)

DNA repair characteristics and mutations in the ERCC2 DNA repair and transcription gene in a trichothiodystrophy patient. Takayama K, et al. **Hum Mutat** 1997;9(6):519–25

The comet assay as a repair test for prenatal diagnosis of Xeroderma pigmentosum and trichothiodystrophy. Alapetite C, et al. **J Invest Dermatol** 1997 Feb;108(2):154–9

Missense mutations in keratin 17 cause either pachyonychia congenita type 2 or a phenotype resembling steatocystoma multiplex. Smith FJ, et al. **J Invest Dermatol** 1997 Feb; 108(2):220–3

Mutations in the hair cortex keratin hHb6 cause the inherited hair disease monilethrix. Winter H, et al. **Nat Genet** 1997 Aug;16(4):372–4

Xeroderma pigmentosum and trichothiodystrophy are associated with different mutations in the XPD (ERCC2) repair/transcription gene. Taylor EM, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8658–63

Xeroderma pigmentosum, Cockayne syndrome and trichothiodystrophy: do the genes explain the diseases? Chu G, et al. **Trends Genet** 1996 May;12(5):187–92 (46 ref.)

HISTORY

[Hair diseases: diagnosis and therapy] Trüeb RM. **Schweiz Rundsch Med Prax** 1997 Jun 4;86(23):977–8 **(Ger, Fre)**

METABOLISM

Increased scalp skin and serum 5 alpha–reductase reduced androgens in a man relevant to the acquired progressive kinky hair disorder and developing androgenetic alopecia. Boudou P, et al. **Arch Dermatol** 1997 Sep;133(9):1129–33 (44 ref.)

Expression pattern of human hair keratin basic 1 (hHb1) in hair follicle and pilomatricoma. Régnier CH, et al. **Exp Dermatol** 1997 Apr;6(2):87–90

PATHOLOGY

Cytology of pilomatrixoma (calcifying epithelioma of Malherbe) in fine needle aspirates. Domanski HA, et al. **Acta Cytol** 1997 May–Jun;41(3):771–7

Hybrid cysts showing alternate combination of eruptive vellus hair cyst, steatocystoma multiplex, and epidermoid cyst, and an association among the three conditions. Ahn SK, et al. **Am J Dermatopathol** 1996 Dec;18(6):645–9

Morphological stages of pilomatricoma. Kaddu S, et al. **Am J Dermatopathol** 1996 Aug;18(4):333–8

Detection of apoptosis by in situ labeling in pilomatricoma. Kishimoto S, et al. **Am J Dermatopathol** 1996 Aug; 18(4):339–43

Hair cortex comedo. Toshitani A, et al. **Am J Dermatopathol** 1996 Jun;18(3):322–5

Cuticle cell defects in lamellar ichthyosis hair and anomalous hair shaft syndromes visualized after detergent extraction. Rice RH, et al. **Anat Rec** 1996 Dec;246(4):433–40

Cutaneous adnexal neoplasms in biopsy specimens processed in the Department of Pathology, University of Malaya. Jayalakshmi P, et al. **Ann Acad Med Singapore** 1996 Jul; 25(4):522–5

Hair problems in women. Van Neste DJ, et al. **Clin Dermatol** 1997 Jan–Feb;15(1):113–25 (41 ref.)

Acquired pili torti––a structural hair shaft defect in anorexia nervosa. Lurie R, et al. **Cutis** 1996 Mar;57(3):151–6

Eruptive vellus hair cyst and steatocystoma multiplex: hybrid cysts. Hurlimann AF, et al. **Dermatology** 1996;192(1):64–6

Mimics of pilomatrixomas in fine–needle aspirates. Sánchez Sánchez C, et al. **Diagn Cytopathol** 1996 Feb;14(1):75–83 (28 ref.)

Circle hairs are not rolled hairs. Smith JB, et al. **J Am Acad Dermatol** 1996 Oct;35(4):634–5

An objective measurement of the anchoring strength of

HAIR DISEASES

anagen hair in an adult with the loose anagen hair syndrome. Chapman DM, et al. **J Cutan Pathol** 1996 Jun; 23(3):288–92

Proliferating pilomatricoma. A histopathologic simulator of matrical carcinoma. Kaddu S, et al. **J Cutan Pathol** 1997 Apr;24(4):228–34

Pilomatricoma with a bullous appearance. Inui S, et al. **J Dermatol** 1997 Jan;24(1):57–9

[Multiple pilomatricoma. Apropos of a case] Urvoy M, et al. **J Fr Ophtalmol** 1996;19(6–7):464–6 (Eng. Abstr.) **(Fre)**

SURGERY

Eyelid splitting with excision or microhyfrecation for distichiasis. Vaughn GL, et al. **Arch Ophthalmol** 1997 Feb; 115(2):282–4

Unusual skin depigmentation following eyelid cryosurgery. Zabriskie NA, et al. **Ophthal Plast Reconstr Surg** 1996 Dec; 12(4):296–8

The true rate of success in argon laser eyelash thermoablation. Elder MJ. **Ophthalmic Surg Lasers** 1996 Oct;27(10):888–90

A simple surgical treatment for upper lid trichiasis. Yeung YM, et al. **Ophthalmic Surg Lasers** 1997 Jan;28(1):74–6

VETERINARY

Diagnostic ophthalmology. Distichiasis and uveal cysts. Grahn BH, et al. **Can Vet J** 1997 Jun;38(6):391–2

HAIR DYES

A case of membranous nephropathy exacerbated after the use of hair dye [letter] Aburaya J. **Nephron** 1996; 74(2):449–51

ADVERSE EFFECTS

Fatal anaphylactic reaction to hair dye. Belton AL, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):290–2

Hair dye depigmentation. Bajaj AK, et al. **Contact Dermatitis** 1996 Jul;35(1):56–7

Contact anaphylaxis due to para-phenylenediamine. Fukunaga T, et al. **Contact Dermatitis** 1996 Sep;35(3):185–6

Urticaria and contact urticaria due to basic blue 99 in a hair dye. Jagtman BA. **Contact Dermatitis** 1996 Jul;35(1):52

Occupational dermatitis in hairdressers. Shah M, et al. **Contact Dermatitis** 1996 Dec;35(6):364–5

Neurodevelopment in offspring of hairdressers. Kersemaekers WM, et al. **Dev Med Child Neurol** 1997 Jun;39(6):358–62

ANALYSIS

No health risk? [letter] McEwen GN Jr. **J Am Pharm Assoc (Wash)** 1997 May–Jun;NS37(3):276–8

Too hazardous? [letter] Smith R. **J Am Pharm Assoc (Wash)** 1997 May–Jun;NS37(3):276

CHEMISTRY

Allergic contact dermatitis from 2,7-dihydroxynaphthalene in hair dye. Eskelinen A, et al. **Contact Dermatitis** 1997 Jun;36(6):312–3

PHARMACOLOGY

Influence of the cosmetic treatment of hair on drug testing. Jurado C, et al. **Int J Legal Med** 1997;110(3):159–63

POISONING

Paraphenylenediamine induced optic atrophy following hair dye poisoning. Yagi H, et al. **Hum Exp Toxicol** 1996 Aug; 15(8):617–8

HAIR FOLLICLE

see related
FOLLICULITIS

The microanatomy, cell replication, and keratin gene expression of hair follicles during a photoperiod-induced growth cycle in sheep. Parry AL, et al. **Acta Anat (Basel)** 1995;154(4):283–99

Trichostasis spinulosa: a clinical simulant of acne open comedones. Harford RR, et al. **Pediatr Dermatol** 1996 Nov–Dec;13(6):490–2

ABNORMALITIES

The use of dermal papilla cells in studies of normal and abnormal hair follicle biology. Randall VA. **Dermatol Clin** 1996 Oct;14(4):585–94 (55 ref.)

Growth factors and cytokines in hair follicle development and cycling: recent insights from animal models and the potentials for clinical therapy. Danilenko DM, et al. **Mol Med Today** 1996 Nov;2(11):460–7 (40 ref.)

ANATOMY & HISTOLOGY

Hair distribution on the phalanges of the hand among Kanuris and Baburs/Buras of north-eastern Nigeria. Mbajiorgu FE, et al. **Acta Anat (Basel)** 1996;157(4):324–9

Fetal and adult hair follicle. An immunohistochemical study of anticytokeratin antibodies in formalin-fixed and paraffin-embedded tissue. Schirren CG, et al. **Am J Dermatopathol** 1997 Aug;19(4):335–40

Apoptotic pocket-like structures of the bulge of the terminal hair follicles of the human scalp. Narisawa Y, et al. **J Dermatol Sci** 1997 Jan;14(1):45–53

Anatomy and physiology of eyelash follicles: relevance to lash ablation procedures. Elder MJ. **Ophthal Plast Reconstr Surg** 1997 Mar;13(1):21–5

CHEMISTRY

Immunohistochemical studies of proinflammatory cytokines and their receptors in hair follicles of normal human skin. Ahmed AA, et al. **Acta Derm Venereol** 1996 Sep; 76(5):348–52

Small proline-rich proteins in hair follicles [letter; comment] Yoneda K, et al. **Acta Derm Venereol** 1997 Jan;77(1):76. Comment on: Acta Derm Venereol 1995 May;75(3):190–2.

Hair cycle-dependent expression of a nonspecific cross reacting antigen (NCA)-50/90-like molecule on follicular keratinocytes. Honda Y, et al. **Arch Dermatol Res** 1997 Jul;289(8):457–65

The localisation and characterisation of insulin-like growth factor-I receptors and the investigation of melatonin receptors on the hair follicles of seasonal and non-seasonal fibre-producing goats. Dicks P, et al. **J Endocrinol** 1996 Oct;151(1):55–63

CYTOLOGY

Three-dimensional demonstration of melanocyte distribution of human hair follicles: special reference to the bulge area. Narisawa Y, et al. **Acta Derm Venereol** 1997 Mar; 77(2):97–101

Whole hair follicle culture. Philpott MP, et al. **Dermatol Clin** 1996 Oct;14(4):595–607 (69 ref.)

Induction of apoptosis through the PKC pathway in cultured dermal papilla fibroblasts. Ferraris C, et al. **Exp Cell Res** 1997 Jul 10;234(1):37–46

Hair follicle dermal papilla cell lines from p53-knockout mice. Hanzawa C, et al. **J Dermatol Sci** 1997 May; 15(1):59–63

Collagenolytic activities with differentiation of the cultured cells from the murine hair apparatus. Obana N, et al. **J Dermatol Sci** 1996 Oct;13(1):83–6

Human hair follicle dermal papilla cell, dermal sheath cell and interstitial dermal fibroblast characteristics. Chiu HC, et al. **J Formos Med Assoc** 1996 Sep;95(9):667–74

Primary mouse keratinocyte cultures contain hair follicle progenitor cells with multiple differentiation potential. Kamimura J, et al. **J Invest Dermatol** 1997 Oct; 109(4):534–40

Hair cycle stage of the mouse vibrissa follicle determines subsequent fiber growth and follicle behavior in vitro. Robinson M, et al. **J Invest Dermatol** 1997 Apr; 108(4):495–500

Apoptosis of hair follicle cells during doxorubicin-induced alopecia in rats. Cece R, et al. **Lab Invest** 1996 Oct; 75(4):601–9

Human pilosebaceous culture. Kealey T, et al. **Methods Mol Biol** 1997;75:101–15 (20 ref.)

A pure, monolayer culture of Merkel cells from sinus hair follicles of the rat. Fukuda J. **Neurosci Lett** 1996 Sep 27; 216(2):73–6

Different populations of melanocytes are present in hair follicles and epidermis. Tobin DJ, et al. **Pigment Cell Res** 1996 Dec;9(6):304–10

DRUG EFFECTS

Hair growth modulation by topical immunophilin ligands: induction of anagen, inhibition of massive catagen development, and relative protection from chemotherapy-induced alopecia. Maurer M, et al. **Am J Pathol** 1997 Apr;150(4):1433–41

Effects of epidermal growth factor and transforming growth factor alpha on the function of wool follicles in culture. Bond JJ, et al. **Arch Dermatol Res** 1996 Jun;288(7):373–82

Inhibitory effects of bFGF, VEGF and minoxidil on collagen synthesis by cultured hair dermal papilla cells. Lachgar S, et al. **Arch Dermatol Res** 1996 Jul;288(8):469–73

Specific inhibition of hair follicle formation by epidermal growth factor in an organ culture of developing mouse skin. Kashiwagi M, et al. **Dev Biol** 1997 Sep 1;189(1):22–32

Trypsin-induced follicular papilla apoptosis results in delayed hair growth and pigmentation. Seiberg M, et al. **Dev Dyn** 1997 Apr;208(4):553–64

The in vivo effect of the tumor promoter 12-O-tetradecanoylphorbol-13-acetate on N-methyl-N-nitrosourea-induced apoptosis in mouse hair follicles. Hai H, et al. **Fundam Appl Toxicol** 1997 Feb; 35(2):177–81

Effects of transforming growth factor beta 1 in the hair cycle. Mori O, et al. **J Dermatol** 1996 Feb;23(2):89–94

Topical liposome delivery of molecules to hair follicles in mice. Li L, et al. **J Dermatol Sci** 1997 Feb;14(2):101–8

Interleukin-1beta is differentially expressed by human dermal papilla cells in response to PKC activation and is a potent inhibitor of human hair follicle growth in organ culture. Xiong Y, et al. **J Interferon Cytokine Res** 1997 Mar; 17(3):151–7

Control of hair growth with parathyroid hormone (7–34). Schilli MB, et al. **J Invest Dermatol** 1997 Jun;108(6):928–32

Pharmacological disruption of hair follicle pigmentation by cyclophosphamide as a model for studying the melanocyte response to and recovery from cytotoxic drug damage in situ. Slominski A, et al. **J Invest Dermatol** 1996 Jun; 106(6):1203–11

Intraaxonal injection of neurobiotin reveals the long-ranging projections of A beta-hair follicle afferent fibers to the cat dorsal horn. Wilson P, et al. **J Neurophysiol** 1996 Jul; 76(1):242–54

Bisindolylmaleimide protein-kinase-C inhibitors delay the decline in DNA synthesis in mouse hair follicle organ cultures. Harmon CS, et al. **Skin Pharmacol** 1997;10(2):71–8

Effects of hypertrichotic agents on follicular and nonfollicular cells in vitro. Kurata S, et al. **Skin Pharmacol** 1996;9(1):3–8

Pro-inflammatory cytokine cascade in human plucked hair. Mahé YF, et al. **Skin Pharmacol** 1996;9(6):366–75

EMBRYOLOGY

Changing patterns of cell adhesion molecules during mouse pelage hair follicle development. 1. Follicle morphogenesis in wild-type mice. Hardy MH, et al. **Acta Anat (Basel)** 1996;157(3):169–82

Changing patterns of cell adhesion molecules during mouse pelage hair follicle development. 2. Follicle morphogenesis in the hair mutants, Tabby and downy. Vielkind U, et al. **Acta Anat (Basel)** 1996;157(3):183–94

Two- and three-dimensional demonstrations of morphological alterations of early anagen hair follicle with special reference to the bulge area. Narisawa Y, et al. **Arch Dermatol Res** 1996 Feb;288(2):98–102

Common pattern of CD44 isoforms is expressed in morphogenetically active epithelia. Yu Q, et al. **Dev Dyn** 1997 Jan;208(1):1–10

Transforming growth factor-beta receptor type I and type II expression during murine hair follicle development and cycling. Paus R, et al. **J Invest Dermatol** 1997 Oct; 109(4):518–26

ENZYMOLOGY

Activity of type 1 5 alpha-reductase is greater in the follicular infrainfundibulum compared with the epidermis. Thiboutot DM, et al. **Br J Dermatol** 1997 Feb;136(2):166–71

Message of nexin 1, a serine protease inhibitor, is accumulated in the follicular papilla during anagen of the hair cycle. Yu DW, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3867–74

Collagenolytic activities with differentiation of the cultured cells from the murine hair apparatus. Obana N, et al. **J Dermatol Sci** 1996 Oct;13(1):83–6

Telomerase activity concentrates in the mitotically active segments of human hair follicles. Ramirez RD, et al. **J Invest Dermatol** 1997 Jan;108(1):113–7

Peptidylarginine deiminase of the hair follicle: characterization, localization, and function in keratinizing tissues. Rogers G, et al. **J Invest Dermatol** 1997 May; 108(5):700–7

Different levels of 5alpha-reductase type I and II, aromatase, and androgen receptor in hair follicles of women and men with androgenetic alopecia. Sawaya ME, et al. **J Invest Dermatol** 1997 Sep;109(3):296–300

Messenger RNA expression of steroidogenesis enzyme subtypes in the human pilosebaceous unit. Courchay G, et al. **Skin Pharmacol** 1996;9(3):169–76

GROWTH & DEVELOPMENT

Changing patterns of cell adhesion molecules during mouse pelage hair follicle development. 1. Follicle morphogenesis in wild-type mice. Hardy MH, et al. **Acta Anat (Basel)** 1996;157(3):169–82

Changing patterns of cell adhesion molecules during mouse pelage hair follicle development. 2. Follicle morphogenesis in the hair mutants, Tabby and downy. Vielkind U, et al. **Acta Anat (Basel)** 1996;157(3):183–94

Hair growth modulation by topical immunophilin ligands: induction of anagen, inhibition of massive catagen development, and relative protection from chemotherapy-induced alopecia. Maurer M, et al. **Am J Pathol** 1997 Apr;150(4):1433–41

Differential epithelial outgrowth of plucked and microdissected human hair follicles in explant culture. Moll I. **Arch Dermatol Res** 1996 Sep;288(10):604–10

Immunohistochemical analysis of tissue remodelling during the anagen-catagen transition of the human hair follicle. Commo S, et al. **Br J Dermatol** 1997 Jul;137(1):31–8

Evidence that activation of protein kinase A inhibits human hair follicle growth and hair fibre production in organ culture and DNA synthesis in human and mouse hair follicle organ culture. Harmon CS, et al. **Br J Dermatol** 1997 Jun;136(6):853–8

Effects of interleukins, colony-stimulating factor and tumour necrosis factor on human hair follicle growth in vitro: a possible role for interleukin-1 and tumour necrosis factor-alpha in alopecia areata. Philpott MP, et al. **Br J Dermatol** 1996 Dec;135(6):942–8

Whole hair follicle culture. Philpott MP, et al. **Dermatol Clin** 1996 Oct;14(4):595–607 (69 ref.)

Hair follicle growth controls. Stenn KS, et al. **Dermatol Clin** 1996 Oct;14(4):543–58 (185 ref.)

Hair matrix germinative epidermal cells confer follicle-inducing capabilities on dermal sheath and high passage papilla cells. Reynolds AJ, et al. **Development** 1996 Oct;122(10):3085–94

Adult epidermal keratinocytes are endowed with pilosebaceous forming abilities. Ferraris C, et al.

Int J Dev Biol 1997 Jun;41(3):491–8

Activation of cytoprotective prostaglandin synthase-1 by minoxidil as a possible explanation for its hair growth-stimulating effect. Michelet JF, et al. **J Invest Dermatol** 1997 Feb;108(2):205–9

Hair cycle stage of the mouse vibrissa follicle determines subsequent fiber growth and follicle behavior in vitro. Robinson M, et al. **J Invest Dermatol** 1997 Apr; 108(4):495–500

A comparison between parallel hairline incisions and perpendicular incisions when performing a face lift. Camirand A, et al. **Plast Reconstr Surg** 1997 Jan;99(1):10–5

An estrogen receptor pathway regulates the telogen-anagen hair follicle transition and influences epidermal cell proliferation. Oh HS, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12525–30

Effects of hypertrichotic agents on follicular and nonfollicular cells in vitro. Kurata S, et al. **Skin Pharmacol** 1996;9(1):3–8

IMMUNOLOGY

Hair follicle structures targeted by antibodies in patients with alopecia areata. Tobin DJ, et al. **Arch Dermatol** 1997 Jan; 133(1):57–61

Spontaneous hair follicle cycling may influence the development of murine contact photosensitivity by modulating keratinocyte cytokine production. Tokura Y, et al. **Cell Immunol** 1997 Jun 15;178(2):172–9

CD24 (heat stable antigen, nectadrin), a novel keratinocyte differentiation marker, is preferentially expressed in areas of the hair follicle containing the colony-forming cells. Magnaldo T, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):3035–45

Autoantibodies to hair follicles in C3H/HeJ mice with alopecia areata-like hair loss. Tobin DJ, et al. **J Invest Dermatol** 1997 Sep;109(3):329–33

INJURIES

The nature of cuticular "ruffles" on slowly plucked anagen hair roots. Chapman DM. **J Cutan Pathol** 1997 Aug; 24(7):434–9

INNERVATION

Hair cycle-dependent plasticity of skin and hair follicle innervation in normal murine skin. Botchkarev VA, et al. **J Comp Neurol** 1997 Sep 29;386(3):379–95

METABOLISM

Vascular endothelial cells: targets for studying the activity of hair follicle cell-produced VEGF. Lachgar S, et al. **Cell Biol Toxicol** 1996 Dec;12(4–6):331–4

The distribution of alpha 2 beta 1, alpha 3 beta 1 and alpha 6 beta 4 integrins identifies distinct subpopulations of basal keratinocytes in the outer root sheath of the human anagen hair follicle. Commo S, et al. **Cell Mol Life Sci** 1997 May; 53(5):466–71

Formulation for transfollicular drug administration: some recent advances. Illel B. **Crit Rev Ther Drug Carrier Syst** 1997;14(3):207–19 (51 ref.)

Fibroblast growth factor signalling in the hair growth cycle: expression of the fibroblast growth factor receptor and ligand genes in the murine hair follicle. Rosenquist TA, et al. **Dev Dyn** 1996 Apr;205(4):379–86

Smoking-associated mitochondrial DNA mutations in human hair follicles. Liu CS, et al. **Environ Mol Mutagen** 1997; 30(1):47–55

Expression pattern of human hair keratin basic 1 (hHb1) in hair follicle and pilomatricoma. Régnier CH, et al. **Exp Dermatol** 1997 Apr;6(2):87–90

Histochemistry of the human hair follicle. Wollina U. **EXS** 1997;78:31–58 (116 ref.)

Hair analysis for drug abuse. XIV. Identification of substances causing acute poisoning using hair root. I. Methamphetamine. Nakahara Y, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):157–64

Localisation of VIP-and CGRP-like substances in the skin and sinus hair follicles of various mammalian species. Cheng-Chew SB, et al. **Histochem Cell Biol** 1996 Jun; 105(6):443–52

Interleukin 6 receptors on human outer root sheath cells and interfollicular epidermal keratinocytes in vitro: density-induced down regulation (DIDR) of receptors [letter] Waelti ER, et al. **In Vitro Cell Dev Biol Anim** 1996 May;32(5):255–8

Expression of cyclin protein after thermal skin injury in a guinea pig model. DeCherney AH, et al. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):292–8

Differential expression of epithelial sodium channel subunit mRNAs in rat skin. Roudier-Pujol C, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):379–85

Transforming growth factor-beta receptor type I and type II expression during murine hair follicle development and cycling. Paus R, et al. **J Invest Dermatol** 1997 Oct; 109(4):518–26

Genomic characterization of the human type I cuticular hair keratin hHa2 and identification of an adjacent novel type I hair keratin gene hHa5. Rogers MA, et al. **J Invest Dermatol** 1996 Oct;107(4):633–8

Description of the intrafollicular delivery of large molecular weight molecules to follicles of human scalp skin in vitro. Lieb LM, et al. **J Pharm Sci** 1997 Sep;86(9):1022–9

Human hair follicles as a peripheral source of tyrosine hydroxylase and aromatic L-amino acid decarboxylase mRNA. Chang YT, et al. **Neurosci Lett** 1997 Feb 7; 222(3):210–2

Evidence for developmentally regulated transcriptional, translational and post-translational control of metallothionein gene expression in hair follicles. Nishimura N, et al. **Reprod Fertil Dev** 1996;8(7):1089–96

Bisindolylmaleimide protein-kinase-C inhibitors delay the decline in DNA synthesis in mouse hair follicle organ cultures. Harmon CS, et al. **Skin Pharmacol** 1997;10(2):71–8

PATHOLOGY

Folliculosebaceous cystic hamartoma with perifollicular mucinosis. Aloi F, et al. **Am J Dermatopathol** 1996 Feb; 18(1):58–62

Clear cell hidradenoma associated with the folliculo-sebaceous-apocrine unit. Histologic study of five cases. Gianotti R, et al. **Am J Dermatopathol** 1997 Aug; 19(4):351–7

Hair follicle nevus: case report and review. Labandeira J, et al. **Am J Dermatopathol** 1996 Feb;18(1):90–3 (27 ref.)

Trichoblastoma and basal cell carcinoma are neoplasms with follicular differentiation sharing the same profile of cytokeratin intermediate filaments. Schirren CG, et al. **Am J Dermatopathol** 1997 Aug;19(4):341–50

Follicular basal cell hyperplasia overlying dermatofibroma. Cheng L, et al. **Am J Surg Pathol** 1997 Jun;21(6):711–8

Hair growth in neonatally undernourished rats. Salas M, et al. **Bol Estud Med Biol** 1995 Jan–Dec;43(1–4):13–8

Acquired pili torti--a structural hair shaft defect in anorexia nervosa. Lurie R, et al. **Cutis** 1996 Mar;57(3):151–6

The use of antidesmoglein stains in Mohs micrographic surgery. A potential aid for the differentiation of basal cell carcinoma from horizontal sections of the hair follicle and folliculocentric basaloid proliferation. Krunic AL, et al. **Dermatol Surg** 1997 Jun;23(6):463–8

Stump the experts. A classic example of a large nodular trichoblastoma. Wright K, et al. **Dermatol Surg** 1996 Oct; 22(10):839, 899–900 (9 ref.)

Proliferating tricholemmal cyst should always be considered as a low-grade carcinoma [letter] Noto G, et al. **Dermatology** 1997;194(4):374–5 (16 ref.)

Proliferating tricholemmal cyst: a possible pitfall in cytological diagnosis. Biernat W, et al. **Diagn Cytopathol** 1996 Jul;15(1):73–5

Eosinophils in fibrous tracts and near hair bulbs: a helpful diagnostic feature of alopecia areata. Elston DM, et al. **J Am Acad Dermatol** 1997 Jul;37(1):101–6

Damage to hair follicles by normal-mode ruby laser pulses. Grossman MC, et al. **J Am Acad Dermatol** 1996 Dec; 35(6):889–94

Trichoepithelioma with an adjacent basal cell carcinoma, transformation or collision? Wallace ML, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):343–5 (10 ref.)

Hair follicles of young Wistar strain hairless rats: a histological study. Ishii Y, et al. **J Anat** 1997 Jul;191 (Pt 1):99–106

Folliculotropic mycosis fungoides with large-cell transformation presenting as dissecting cellulitis of the scalp. Gilliam AC, et al. **J Cutan Pathol** 1997 Mar; 24(3):169–75

Successful treatment of chronic leg ulcers with epidermal equivalents generated from cultured autologous outer root sheath cells. Limat A, et al. **J Invest Dermatol** 1996 Jul; 107(1):128–35

Morphological analysis of hair follicles in alopecia areata. Tobin SJ. **Microsc Res Tech** 1997 Aug 15;38(4):443–51

Evidence that initiated keratinocytes clonally expand into multiple existing hair follicles during papilloma histogenesis in SENCAR mouse skin. Binder RL, et al. **Mol Carcinog** 1997 Sep;20(1):151–8

Trichilemmal cyst of the upper lip. Perez LM, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jul;84(1):58–60

Loose anagen hair in hypohidrotic ectodermal dysplasia. Azon-Masoliver A, et al. **Pediatr Dermatol** 1996 Jan–Feb; 13(1):29–32 (23 ref.)

Hair follicle nevus: case report and review of the literature. Davis DA, et al. **Pediatr Dermatol** 1996 Mar–Apr; 13(2):135–8 (24 ref.)

Angora mouse mutation: altered hair cycle, follicular dystrophy, phenotypic maintenance of skin grafts, and changes in keratin expression. Sundberg JP, et al. **Vet Pathol** 1997 May;34(3):171–9

[Tumor of the follicular infundibulum. Study of determining follicular differentiation] Schirren CG, et al. **Pathologe** 1996 Nov;17(6):440–5 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Genetically null mice reveal a central role for epidermal growth factor receptor in the differentiation of the hair follicle and normal hair development. Hansen LA, et al. **Am J Pathol** 1997 Jun;150(6):1959–75

Ageing-associated large-scale deletions of mitochondrial DNA in human hair follicles. Kao SH, et al. **Biochem Mol Biol Int** 1997 Jun;42(2):285–98

The use of dermal papilla cells in studies of normal and abnormal hair follicle biology. Randall VA. **Dermatol Clin** 1996 Oct;14(4):585–94 (55 ref.)

The upper dermal sheath has a potential to regenerate the hair in the rat follicular epidermis. Matsuzaki T, et al. **Differentiation** 1996 Sep;60(5):287–97

In vivo cytokine and receptor gene expression during the rat hair growth cycle. Analysis by semi-quantitative RT-PCR. Little JC, et al. **Exp Dermatol** 1996 Aug; 5(4):202–12

The promoter of an androgen dependent gene in the hamster flank organ. Aoki H, et al. **J Dermatol Sci** 1997 May; 15(1):36–43

Human hair follicle regeneration following amputation and grafting into the nude mouse. Jahoda CA, et al. **J Invest Dermatol** 1996 Dec;107(6):804–7

RADIATION EFFECTS

Changes in the cellularity of the cortex of human hairs as an indicator of radiation exposure. Potten CS, et al. **Radiat Environ Biophys** 1996 May;35(2):121–5

Response of human hair cortical cells to fractionated radiotherapy. Hamilton CS, et al. **Radiother Oncol** 1997 Jun;43(3):289–92

TRANSPLANTATION

The aesthetics of follicular transplantation [see comments] Bernstein RM, et al. **Dermatol Surg** 1997 Sep;23(9):785–99 . Comment in: Dermatol Surg 1997 Sep;23(9):801–5.

On: follicular transplantation by Bernstein and Rassman [editorial; comment] Unger WP. **Dermatol Surg** 1997 Sep; 23(9):801–5. Comment on: Dermatol Surg 1997 Sep;23(9):785–99.

ULTRASONOGRAPHY

Ultrasound examination of hair follicles in hidradenitis suppurativa. Jemec GB, et al. **Arch Dermatol** 1997 Aug; 133(8):967–70

ULTRASTRUCTURE

Two- and three-dimensional demonstrations of morphological alterations of early anagen hair follicle with special reference to the bulge area. Narisawa Y, et al. **Arch Dermatol Res** 1996 Feb;288(2):98–102

Ultrastructural abnormalities in the dermal papillae of both lesional and clinically normal follicles from alopecia areata scalps. Nutbrown M, et al. **Br J Dermatol** 1996 Aug; 135(2):204–10

VIROLOGY

Pityriasis rubra pilaris and human immunodeficiency virus infection--type 6 pityriasis rubra pilaris? [comment] Misery I, et al. **Br J Dermatol** 1996 Dec;135(6):1008–9. Comment on: Br J Dermatol 1995 Nov;133(5):818–9. Comment on: Br J Dermatol 1995 Dec;133(6):990–3.

Detection of HPV DNA in trichilemmomas by polymerase chain reaction. Rohwedder A, et al. **J Med Virol** 1997 Feb; 51(2):119–25

Hair follicle involvement in herpes zoster [letter; comment] Nikkels AF, et al. **Virchows Arch** 1997 Jun;430(6):510–1. Comment on: Virchows Arch 1996 Jul;428(4–5):275–80.

HAIR PREPARATIONS

Worldwide availability of coal tar shampoos threatened. Jackson EM. **Am J Contact Dermat** 1996 Jun;7(2):131–4 (19 ref.)

Soaps, shampoos, and detergents: a scientific soap opera. **Clin Dermatol** 1996 Jan–Feb;14(1):1–132

Shampoos. Bouillon C. **Clin Dermatol** 1996 Jan–Feb; 14(1):113–21

Medicated shampoos. Shapiro J, et al. **Clin Dermatol** 1996 Jan–Feb;14(1):123–8 (41 ref.)

Effect of ketoconazole-medicated shampoos on squamometry and Malassezia ovalis load in pityriasis capitis. Arrese JE, et al. **Cutis** 1996 Sep;58(3):235–7

A survey of use of hormone/placenta-containing hair preparations by parents and/or children attending pediatric clinics. Tiwary CM. **Mil Med** 1997 Apr;162(4):252–6

Treatment with bifonazole shampoo for scalp seborrhea in infants and young children. Zeharia A, et al. **Pediatr Dermatol** 1996 Mar–Apr;13(2):151–3

ADVERSE EFFECTS

Nasal provocation test in the diagnostics of hairdressers' occupational rhinitis. Hytönen M, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:133–6

Contact urticaria with systemic symptoms caused by bovine collagen in a hair conditioner. Pasche-Koo F, et al. **Am J Contact Dermat** 1996 Mar;7(1):56–7

Hair relaxers: lack of morbidity despite high pH [letter] Mrvos R, et al. **Am J Emerg Med** 1997 Mar;15(2):216

Hair conditioner causes angioedema [letter] Stadtmauer G, et al. **Ann Allergy Asthma Immunol** 1997 Jun;78(6):602

Hair: its structure and response to cosmetic preparations. Dawber R. **Clin Dermatol** 1996 Jan–Feb;14(1):105–12 (36 ref.)

Pure cocamidopropylbetaine is not the allergen in patients with positive reactions to commercial cocamidopropylbetaine. Angelini G, et al. **Contact Dermatitis** 1996 Oct;35(4):252–3

Contact urticaria to hair conditioner. Freeman S, et al. **Contact Dermatitis** 1996 Sep;35(3):195–6

Occupational allergic contact dermatitis from

HAIR PREPARATIONS

3-dimethylaminopropylamine in shampoos. Kanerva L, et al. **Contact Dermatitis** 1996 Aug;35(2):122-3
Occupational allergic contact dermatitis from thiolactic acid contained in 'ester-free' permanent-waving solutions. Straube M, et al. **Contact Dermatitis** 1996 Mar;34(3):229-30
Allergic contact dermatitis from disodium ricinoleamido MEA-sulfosuccinate in shampoo. Tan BB, et al. **Contact Dermatitis** 1996 Nov;35(5):307
Occupational dermatitis in hairdressing apprentices. Early-onset irritant skin damage. Uter W, et al. **Curr Probl Dermatol** 1995;23:49-55
Reproductive disorders among hairdressers. Kersemaekers WM, et al. **Epidemiology** 1997 Jul;8(4):396-401
Euglena gracilis as a supplementary test organism for detecting biologically active compounds. Mačor M, et al. **Folia Microbiol (Praha)** 1996;41(1):48-52
Ingestion of caustic hair relaxer: is endoscopy necessary? Cox AJ 3rd, et al. **Laryngoscope** 1997 Jul;107(7):897-902
Interstitial pneumonitis and fibrosis associated with the inhalation of hair spray. Nagata N, et al. **Respiration** 1997; 64(4):310-2

ANALYSIS

Hair analysis for nicotine and cotinine: evaluation of extraction procedures, hair treatments, and development of reference material. Pichini S, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):243-52
Stability of opiates in hair fibers after exposure to cosmetic treatment. Pötsch L, et al. **Forensic Sci Int** 1996 Aug 15; 81(2-3):95-102

PHARMACOLOGY

On cosmetically treated hair--aspects and pitfalls of interpretation. Skopp G, et al. **Forensic Sci Int** 1997 Jan 17;84(1-3):43-52

POISONING

Severe acute renal failure due to bromate intoxication: report of a case and discussion of management guidelines based on a review of the literature. De Vriese A, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):204-9 (29 ref.)

HAIR REMOVAL

An objective measurement of the anchoring strength of anagen hair in an adult with the loose anagen hair syndrome. Chapman DM, et al. **J Cutan Pathol** 1996 Jun; 23(3):288-92
The nature of cuticular "ruffles" on slowly plucked anagen hair roots. Chapman DM. **J Cutan Pathol** 1997 Aug; 24(7):434-9
["Depilation" by micro-algae?] Ditrich H. **Arch Kriminol** 1996 Sep-Oct;198(3-4):95-8 (Eng. Abstr.) **(Ger)**
[Epilation in Becker nevus] Raulin C. **Hautarzt** 1996 Jul; 47(7):557-8 **(Ger)**

ADVERSE EFFECTS

Severe folliculitis with keloid scars induced by wax epilation in adolescents. Mimouni-Bloch A, et al. **Cutis** 1997 Jan; 59(1):41-2

ECONOMICS

Clinical and cost comparison of three postoperative skin preparation protocols in CABG patients. De Geest S, et al. **Prog Cardiovasc Nurs** 1996 Fall;11(4):4-16

METHODS

Topical suspension-assisted Q-switched Nd:YAG laser hair removal. Goldberg DJ, et al. **Dermatol Surg** 1997 Sep; 23(9):741-5
Laser-assisted hair removal by selective photothermolysis. Preliminary results. Lask G, et al. **Dermatol Surg** 1997 Sep; 23(9):737-9
Laser hair removal in a patient with hypertrichosis lanuginosa congenita. Littler CM. **Dermatol Surg** 1997 Aug; 23(8):705-7
Khite: a non-Western technique for temporary hair removal. Abdel-Gawad MM, et al. **Int J Dermatol** 1997 Mar; 36(3):217
Damage to hair follicles by normal-mode ruby laser pulses. Grossman MC, et al. **J Am Acad Dermatol** 1996 Dec; 35(6):889-94
The true rate of success in argon laser eyelash thermoablation. Elder MJ. **Ophthalmic Surg Lasers** 1996 Oct;27(10):888-90
Clinical and cost comparison of three postoperative skin preparation protocols in CABG patients. De Geest S, et al. **Prog Cardiovasc Nurs** 1996 Fall;11(4):4-16
[Preparation of the scrotal skin for urethroplasty: depilation technique] Gil-Vernet Sedó A, et al. **Arch Esp Urol** 1997 May;50(4):323-31 (Eng. Abstr.) **(Spa)**

HAIRLESS MICE see **MICE, INBRED HRS**

HAIRY CELL LEUKEMIA see **LEUKEMIA, HAIRY CELL**

HAIRY CELL LEUKEMIA, ATYPICAL see **LEUKEMIA, T-CELL, HTLV-II-ASSOCIATED**

HAJDU-CHENEY SYNDROME see **OSTEOLYSIS, ESSENTIAL**

HALF-BODY IRRADIATION see **HEMIBODY IRRADIATION**

HALFWAY HOUSES

Clinical usefulness of an aftercare worker for psychotic patients discharged from half-way houses in Hong Kong. Mak KY, et al. **Br J Psychiatry** 1996 Jun;168(6):757-61
Alcoholic patients' decisions about halfway houses. What they say, what they do. Fischer EH. **J Subst Abuse Treat** 1996 Mar-Apr;13(2):159-64
SAFER houses for patients who need asylum [editorial] [see comments] Munetz MR, et al. **Psychiatr Serv** 1996 Feb; 47(2):117. Comment in: Psychiatr Serv 1996 Aug;47(8):879.

LEGISLATION & JURISPRUDENCE

Criminality of the mentally ill in sheltered care: are they more dangerous? Hwang SD, et al. **Int J Law Psychiatry** 1996 Winter;19(1):93-105

HALITOSIS

Oral malodor: philosophical and practical aspects. Bosy A. **J Can Dent Assoc** 1997 Mar;63(3):196-201 (73 ref.)
[Bad breath from the oral cavity] Wåler SM. **Tidsskr Nor Laegeforen** 1997 Apr 30;117(11):1618-21 (22 ref.) (Eng. Abstr.) **(Nor)**

DRUG THERAPY

Ethics of bad breath [letter; comment] Bosy A, et al. **J Can Dent Assoc** 1997 Apr;63(4):235. Comment on: J Can Dent Assoc 1997 Feb;63(2):79.

ETIOLOGY

Multidisciplinary breath-odour clinic [letter] Delanghe G, et al. **Lancet** 1997 Jul 19;350(9072):187
Halitosis. A common oral problem [see comments] Spielman AI, et al. **N Y State Dent J** 1996 Dec;62(10):36-42 (0 ref.) . Comment in: N Y State Dent J 1997 Mar;63(3):16-7.
The complaint of oral malodor: possible psychopathological aspects. Eli I, et al. **Psychosom Med** 1996 Mar-Apr; 58(2):156-9

PREVENTION & CONTROL

The effect of zinc-containing chewing gum on volatile sulfur-containing compounds in the oral cavity. Wåler SM. **Acta Odontol Scand** 1997 Jun;55(3):198-200
Efficacy of a 2-phase oil: water mouthrinse in controlling oral malodor, gingivitis, and plaque. Kozlovsky A, et al. **J Periodontol** 1996 Jun;67(6):577-82

THERAPY

Experiences of a Belgian multidisciplinary breath odour clinic. Delanghe G, et al. **Acta Otorhinolaryngol Belg** 1997; 51(1):43-8
A breath of fresh air [editorial] Meskin LH. **J Am Dent Assoc** 1996 Sep;127(9):1282, 1284, 1286 passim
Treating halitosis [letter] Miller RA. **J Am Dent Assoc** 1997 Jan;128(1):12, 14
The ethics of bad breath [see comments] Dolman B. **J Can Dent Assoc** 1997 Feb;63(2):79. Comment in: J Can Dent Assoc 1997 Apr;63(4):235.
Not entirely clear [letter; comment] Ury SR. **N Y State Dent J** 1997 Mar;63(3):16-7. Comment on: N Y State Dent J 1996 Dec;62(10):36-42.

HALLERMANN-STREIFF SYNDROME see **HALLERMANN'S SYNDROME**

HALLERMANN'S SYNDROME

COMPLICATIONS

Chromosomal and clinical features in an infant with Hallermann-Streiff syndrome [letter] Pugliese GF, et al. **Arch Dis Child** 1997 Aug;77(2):184

DIAGNOSIS

What syndrome is this? Hallermann-Streiff syndrome. Amichai B, et al. **Pediatr Dermatol** 1996 May-Jun; 13(3):255-7

GENETICS

Atrial septal defect in Hallermann Streiff syndrome [letter] Aynaci FM, et al. **Genet Couns** 1997;8(2):145-6

PATHOLOGY

Osteocraniostenosis vs. severe Hallermann-Streiff-François syndrome [letter; comment] Verloes A. **Am J Med Genet** 1997 Jan 10;68(1):105-8. Comment on: Am J Med Genet 1995 Dec 4;59(4):517-20.

SURGERY

Hallermann-Streiff syndrome: airway problems during anaesthesia. Malde AD, et al. **J Postgrad Med** 1994 Oct-Dec;40(4):216-8

HALLERVORDEN-SPATZ SYNDROME

Hallervorden-Spatz disease: late infantile type. Singhi PD, et al. **J Child Neurol** 1997 Jun;12(4):281-2
Naming of syndromes and unethical activities: the case of Hallervorden and Spatz [see comments] Harper PS. **Lancet** 1996 Nov 2;348(9036):1224-5. Comment in: Lancet 1996 Dec 14;348(9042):1662.
Naming of syndromes [letter; comment] Jacoby R, et al. **Lancet** 1996 Dec 14;348(9042):1662. Comment on: Lancet 1996 Nov 2;348(9036):1224-5.
Naming of syndromes [letter; comment] Morrison P. **Lancet** 1996 Dec 14;348(9042):1662. Comment on: Lancet 1996 Nov 2;348(9036):1224-5.
Naming of syndromes [letter; comment] Shevell M. **Lancet** 1996 Dec 14;348(9042):1662. Comment on: Lancet 1996 Nov 2;348(9036):1224-5.

BLOOD

Acanthocytosis, retinitis pigmentosa, pallidal degeneration. Report of two cases without serum lipid abnormalities. Malandrini A, et al. **J Neurol Sci** 1996 Sep 1; 140(1-2):129-31

DIAGNOSIS

Hallervorden-Spatz disease. Boyacigil S, et al. **Australas Radiol** 1996 Aug;40(3):351-3

DRUG THERAPY

Continuous intrathecal baclofen infusion for symptomatic generalized dystonia. Albright AL, et al. **Neurosurgery** 1996 May;38(5):934-8; discussion 938-9

ENZYMOLOGY

Superoxide dismutase-like immunoreactivity in spheroids in Hallervorden-Spatz disease. Nishiyama K, et al. **Acta Neuropathol (Berl)** 1997 Jan;93(1):19-23

GENETICS

Homozygosity mapping of Hallervorden-Spatz syndrome to chromosome 20p12.3-p13 [published erratum appears in Nat Genet 1997 May;16(1):109] Taylor TD, et al. **Nat Genet** 1996 Dec;14(4):479-81

PATHOLOGY

Superoxide dismutase-like immunoreactivity in spheroids in Hallervorden-Spatz disease. Nishiyama K, et al. **Acta Neuropathol (Berl)** 1997 Jan;93(1):19-23
Atypical dopa responsive parkinsonism in a patient with megalencephaly, midbrain Lewy body disease, and some pathological features of Hallervorden-Spatz disease. Tuite PJ, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov; 61(5):523-7

HALLOPEAU-SIEMENS DISEASE see **EPIDERMOLYSIS BULLOSA DYSTROPHICA**

HALLUCINATIONS

see related
HALLUCINOGENS

Charles Bonnet syndrome, insight and cognitive impairment [letter; comment] Teunisse RJ. **J Am Geriatr Soc** 1997 Jul; 45(7):892-3. Comment on: J Am Geriatr Soc 1996 Sep;44(9):1055-61.
Visual and auditory hallucinations in a psychologically normal woman [letter] Chédru F, et al. **Lancet** 1996 Sep 28;348(9031):896
[Discussion on the figure-description in the author's case with "acute alcoholic scenic complex hallucination"--against the criticism of HENRY Ey in his "Traité des hallucinations"] Konuma M. **Nihon Arukoru Yakubutsu Igakkai Zasshi** 1996 Jun; 31(3):226-34 (Eng. Abstr.) **(Jpn)**

CHEMICALLY INDUCED

Systemic toxicity from ocular homatropine. Reilly KM, et al. **Acad Emerg Med** 1996 Sep;3(9):868-71 (15 ref.)
Visual hallucinations in a toddler: accidental ingestion of a sympathomimetic over-the-counter nasal decongestant. Sauder KL, et al. **Am J Emerg Med** 1997 Sep;15(5):521-6
Hallucinations after orally administered lorazepam in an adult--a problem revisited [letter] van den Berg AA. **Anaesthesia** 1996 Sep;51(9):891-2
Zolpidem and hallucinations [letter] Markowitz JS, et al. **Ann Emerg Med** 1997 Feb;29(2):300-1
Anterior paralimbic mediation of procaine-induced emotional and psychosensory experiences [letter; comment] Saravay SM. **Arch Gen Psychiatry** 1997 Aug;54(8):763-5. Comment on: Arch Gen Psychiatry 1996 Jan;53(1):59-69.
Tricyclic-induced musical hallucinations [letter; comment] Gordon AG. **Biol Psychiatry** 1996 Aug 15;40(4):309-10. Comment on: Biol Psychiatry 1995 Aug 1;38(3):192-3.
Visual hallucinations and amnesia associated with the use of zolpidem [letter] van Puijenbroek EP, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):318
An unusual hallucination with norfloxacin. Rataboli PV, et al. **J Assoc Physicians India** 1996 Jul;44(7):504

Ranitidine associated visual hallucinations. Marinella MA. **J Clin Gastroenterol** 1996 Oct;23(3):238

LSD-like panic from risperidone in post-LSD visual disorder [see comments] Abraham HD, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):238–41. Comment in: J Clin Psychopharmacol 1997 Aug:17(4):327–8.

Methamphetamine psychosis: spontaneous recurrence of paranoid-hallucinatory states and monoamine neurotransmitter function. Yui K, et al. **J Clin Psychopharmacol** 1997 Feb;17(1):34–43

Triphasic waves in serotonin syndrome [letter] Dike GL. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):200

Cenesthetic hallucinations in a patient with Parkinson's disease [letter] Jiménez-Jiménez FJ, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):120

Visual hallucinations [letter; comment] Ashton H. **J R Coll Physicians Lond** 1997 Mar-Apr;31(2):221–2. Comment on: J R Coll Physicians Lond 1997 Jan-Feb;31(1):42–8.

Visual hallucinations induced by intraarticular injection of steroids [letter] Daragon A, et al. **J Rheumatol** 1997 Feb; 24(2):411

Hallucinations after a therapeutic dose of benzodiazepine hypnotics with co-administration of erythromycin. Tokinaga N, et al. **Psychiatry Clin Neurosci** 1996 Dec; 50(6):337–9

[An unusual case of psychosis caused by long-term administration of a scopolamine membrane patch. Paranoid hallucinogenic and delusional symptoms] Rubner O, et al. **Nervenarzt** 1997 Jan;68(1):77–9 (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Charles Bonnet syndrome and early dementia [letter; comment] Guerra-Garcia H. **J Am Geriatr Soc** 1997 Jul; 45(7):893–4. Comment on: J Am Geriatr Soc 1996 Sep;44(9):1055–61.

An optical intervention for visual hallucinations associated with visual impairment in an elderly patient. Pankow L, et al. **Optom Vis Sci** 1997 Mar;74(3):138–43

[Late onset schizophrenias: a case of chronic hallucinatory psychosis] Fabregat Navarro V, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Nov-Dec;24(6):353–7 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

The content and characteristics of auditory hallucinations in Saudi Arabia and the UK: a cross-cultural comparison. Kent G, et al. **Acta Psychiatr Scand** 1996 Dec;94(6):433–7

'Audible thoughts' and 'speech defects' in schizophrenia [letter] Hoenig J. **Br J Psychiatry** 1996 Sep;169(3):380

Long-term stability of diagnosis and symptom dimensions in a systematic sample of patients with onset of schizophrenia in childhood and early adolescence. II: Postnegative distinction and childhood predictors of adult outcome. Maziade M, et al. **Br J Psychiatry** 1996 Sep; 169(3):371–8

'Audible thoughts' and 'speech defects' in schizophrenia [letter] Wyss FE. **Br J Psychiatry** 1996 Sep;169(3):379–80

Tardive dyskinesia and positive and negative symptoms of schizophrenia. A study using instrumental measures. Yuen O, et al. **Br J Psychiatry** 1996 Jun;168(6):702–8

Dangerousness and command hallucinations: an investigation of psychotic inpatients. Kasper ME, et al. **Bull Am Acad Psychiatry Law** 1996;24(2):219–24

Cheiro-oral syndrome and vivid recollection of past in thalamic infarction. Kim JS. **Eur Neurol** 1997;37(4):253–4

Visual hallucinations in a blind elderly woman: Charles Bonnet syndrome, an underrecognized clinical condition [letter] Chen J, et al. **Gen Hosp Psychiatry** 1996 Nov; 18(6):453–5

Charles Bonnet syndrome, time to drop the name? [letter] Rao V. **Int J Geriatr Psychiatry** 1997 Mar;12(3):413

Hallucinations. Whitehouse PJ, et al. **Int Psychogeriatr** 1996; 8 Suppl 3:387–92

Subclinical hallucinations and delusions in nonpsychotic adolescents. Altman H, et al. **J Child Psychol Psychiatry** 1997 May;38(4):413–20

Childhood hallucinations preceding the first psychotic episode. Fennig S, et al. **J Nerv Ment Dis** 1997 Feb; 185(2):115–7

The Charles Bonnet syndrome: a review. Fernandez A, et al. **J Nerv Ment Dis** 1997 Mar;185(3):195–200 (60 ref.)

Sleep paralysis presenting with reactive depression [letter] Gangdev PS, et al. **S Afr Med J** 1996 Dec;86(12 Suppl):1617–8

[Chronic hallucinatory psychosis and late onset schizophrenia: the same entity?] Dubertret C, et al. **Encephale** 1997 May-Jun;23(3):157–67 (38 ref.) (Eng. Abstr.) **(Fre)**

[The PANSS (Positive And Negative Symptom) Scale] Guelfi JD. **Encephale** 1997 Apr;23 Spec No 2:35–8 (19 ref.) (Eng. Abstr.) **(Fre)**

[Psychometric properties of PANSS (Positive and Negative Syndrome Scale) in the French version in a sample of schizophrenic patients] Lançon C, et al. **Encephale** 1997 Jan-Feb;23(1):1–9 (Eng. Abstr.) **(Fre)**

[A four-dimensional model of chronic schizophrenia based on the factorial structure of the Positive and Negative Syndrome Scale (PANSS). A study of a group of 153 chronic schizophrenic patients and comparison with the factorial structure of the BPRS] Loas G, et al. **Encephale** 1997 Jan-Feb;23(1):10–8 (Eng. Abstr.) **(Fre)**

[A review of the pathogenesis of the hallucinatory state. A description of four cases] Tapiador MJ, et al. **Rev Neurol** 1996 Dec;24(136):1529–32 (Eng. Abstr.) **(Spa)**

["Visual stress"--how to explain certain visual hallucinations? (letter; comment)] Bynke H. **Lakartidningen** 1997 Aug 6; 94(32-33):2716. Comment on: Lakartidningen 1997 May 21;94(21):1970. **(Swe)**

DRUG THERAPY

Neuroleptic malignant syndrome: two cases without muscle rigidity. Wong MM. **Aust N Z J Psychiatry** 1996 Jun; 30(3):415–8

Charles Bonnet syndrome [letter; comment] Nevins M. **J Am Geriatr Soc** 1997 Jul;45(7):894–5. Comment on: J Am Geriatr Soc 1996 Sep;44(9):1128–9.

[Successful carbamazepine therapy of 2 cases of music hallucinations] Gertz HJ, et al. **Nervenarzt** 1996 May; 67(5):387–9 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Hypnagogic and hypnopompic hallucinations: pathological phenomena? Ohayon MM, et al. **Br J Psychiatry** 1996 Oct; 169(4):459–67

Deviant olfactory experiences as indicators of risk for psychosis. Kwapil TR, et al. **Schizophr Bull** 1996; 22(2):371–82

ETIOLOGY

Visual loss as a causative factor in visual hallucinations associated with Parkinson disease [letter; comment] Lepore FE. **Arch Neurol** 1997 Jul;54(7):799. Comment on: Arch Neurol 1996 Dec;53(12):1265–8.

Visual hallucinations associated with Parkinson disease [see comments] Sanchez-Ramos JR, et al. **Arch Neurol** 1996 Dec;53(12):1265–8. Comment in: Arch Neurol 1997 Jul;54(7):799.

Musical auditory hallucinosis from Listeria rhombencephalitis. Douen AG, et al. **Can J Neurol Sci** 1997 Feb;24(1):70–2

Palinacousis after closed-head injury in a patient with schizophrenia [letter] Freudenreich O, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):94

A study of visual hallucinations in patients with Parkinson's disease. Klein C, et al. **J Neurol** 1997 Jun;244(6):371–7

Unilateral auditory hallucinations in a boy with ipsilateral conductive hearing loss [letter] Brasic JR, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):302

Metamorphopsia and visual hallucinations restricted to the right visual hemifield after a left putaminal haemorrhage [letter] Shiga K, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):420–1

Visual hallucinations [see comments] Barodawala S, et al. **J R Coll Physicians Lond** 1997 Jan-Feb;31(1):42–8 (54 ref.) . Comment in: J R Coll Physicians Lond 1997 Mar-Apr;31(2):221–2.

Visual hallucinations [letter] Larner AJ. **J R Coll Physicians Lond** 1997 Mar-Apr;31(2):222

Psychomotor seizures presenting with hypnagogic visual hallucinations. Harvey CA, et al. **J R Soc Med** 1996 Nov; 89(11):640–2

Visual phenomena, disturbances, and hallucinations. Adamczyk DT. **Optom Clin** 1996;5(3-4):33–52 (3 ref.)

Unilateral hallucinations and other psychotic symptoms due to otosclerosis. Marneros A, et al. **Psychopathology** 1997 Mar-Apr;30(2):89–92

[Hallucinations and thalamic infarction] Tatu L, et al. **Rev Neurol (Paris)** 1996 Aug-Sep;152(8-9):557–9 (10 ref.) (Eng. Abstr.) **(Fre)**

[Astral and out-of-body voyages. Heautoscopy, ecstasis and experimental hallucinations of epileptic origin] Vuilleumier P, et al. **Rev Neurol (Paris)** 1997 Mar;153(2):115–9 (Eng. Abstr.) **(Fre)**

[Steroid responsive chronic brainstem encephalitis featuring mental symptoms, abnormal eye movement and cerebellar ataxia] Watanabe R, et al. **No To Shinkei** 1997 Jul; 49(7):650–3 (Eng. Abstr.) **(Jpn)**

[Unilateral auditory hallucinations due to left temporal lobe ischemia: a case report] Anegawa T, et al. **Rinsho Shinkeigaku** 1995 Oct;35(10):1137–41 (Eng. Abstr.) **(Jpn)**

[Simple partial seizure consisting of complex visual hallucinations due to left temporo-occipital lesion] Takahashi N, et al. **Rinsho Shinkeigaku** 1996 May; 36(5):665–9 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Seeing visual hallucinations with functional magnetic resonance imaging. Howard R, et al. **Dement Geriatr Cogn Disord** 1997 Mar-Apr;8(2):73–7 (36 ref.)

PHYSIOPATHOLOGY

A computational model of visual hallucinations in migraine. Reggia JA, et al. **Comput Biol Med** 1996 Mar;26(2):133–41

Hemispatial neglect in the visual hallucination of a patient with Anton's syndrome. Suzuki K, et al. **Eur Neurol** 1997; 37(1):63–4

Auditory event-related potential (ERP) and difference-wave topography in schizophrenic patients with/without active hallucinations and delusions: a comparison with young obsessive-compulsive disorder (OCD) and healthy subjects. Oades RD, et al. **Int J Psychophysiol** 1996 Jun-Jul; 22(3):185–214

Visual hallucinosis: the major clinical determinant of distorted chromatic contour perception in Parkinson's disease. Büttner T, et al. **J Neural Transm** 1996; 103(10):1195–204

Hallucinations and signs of parkinsonism help distinguish patients with dementia and cortical Lewy bodies from patients with Alzheimer's disease at presentation: a clinicopathological study. Ala TA, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan;62(1):16–21

Where do voices come from? Adler M. **J R Soc Med** 1997 Jan;90(1):28–32 (39 ref.)

Do musical hallucinations always arise from the inner ear? Gordon AG. **Med Hypotheses** 1997 Aug;49(2):111–22

Functional neuroimaging of hallucinations in schizophrenia: toward an integration of bottom-up and top-down approaches. Silbersweig D, et al. **Mol Psychiatry** 1996 Nov; 1(5):367–75 (100 ref.)

"Picture within a picture" visual hallucinations. Benegas NM, et al. **Neurology** 1996 Nov;47(5):1347–8

Auditory hallucinations inhibit exogenous activation of auditory association cortex. David AS, et al. **Neuroreport** 1996 Mar 22;7(4):932–6

Properties of complex hallucinations associated with deficits in vision. Schultz G, et al. **Perception** 1996;25(6):715–26

The role of the prefrontal cortex in self-consciousness: the case of auditory hallucinations. Frith C. **Philos Trans R Soc Lond B Biol Sci** 1996 Oct 29; 351(1346):1505–12 (52 ref.)

What voices can do with words: pragmatics of verbal hallucinations. Leudar I, et al. **Psychol Med** 1997 Jul; 27(4):885–98

Cognitive factors in source monitoring and auditory hallucinations. Morrison AP, et al. **Psychol Med** 1997 May; 27(3):669–79

Auditory pseudohallucinations induced by a combination of hearing impairment and environmental stress. Balan S, et al. **Psychopathology** 1996;29(3):198–200

[Alcohol-induced hallucinosis. Clinical aspects, pathophysiology and therapy] Soyka M. **Nervenarzt** 1996 Nov;67(11):891–5 (52 ref.) (Eng. Abstr.) **(Ger)**

PSYCHOLOGY

Hallucinatory changes [letter; comment] Hoehn-Saric R. **Am J Psychiatry** 1997 Feb;154(2):293–4. Comment on: Am J Psychiatry 1996 Feb;153(2):265–7.

Acting on command hallucinations: a cognitive approach. Beck-Sander A, et al. **Br J Clin Psychol** 1997 Feb;36 (Pt 1):139–48

Coping with hallucinations: exploring stress and coping framework. Farhall J, et al. **Br J Clin Psychol** 1997 May; 36 (Pt 2):259–61

'Audible thoughts' and 'speech defect' [letter; comment] Crichton P. **Br J Psychiatry** 1996 Aug;169(2):249. Comment on: Br J Psychiatry 1996 May;168(5):533–5; discussion 536–9.

The neural correlates of inner speech and auditory verbal imagery in schizophrenia: relationship to auditory verbal hallucinations. McGuire PK, et al. **Br J Psychiatry** 1996 Aug;169(2):148–59

'Audible thoughts' and 'speech defect' [letter; comment] Moncrieff J. **Br J Psychiatry** 1996 Aug;169(2):249–50. Comment on: Br J Psychiatry 1996 May;168(5):533–5; discussion 536–9.

'Audible thoughts' and 'speech defect' [letter; comment] Wilson S. **Br J Psychiatry** 1996 Aug;169(2):250. Comment on: Br J Psychiatry 1996 May;168(5):533–5; discussion 536–9.

Charles Bonnet syndrome: incidence and demographic and clinical features [letter] O'Reilly R, et al. **Can J Psychiatry** 1996 May;41(4):259–60

Insight into auditory hallucinations and psychosis [letter] Gordon AG. **Int J Geriatr Psychiatry** 1997 Mar;12(3):410–1

Intimidation at the helm: superego and hallucinations in the analytic treatment of a psychosis. De Masi F. **Int J Psychoanal** 1997 Jun;78 (Pt 3):561–76

Visual hallucinations in a geriatric psychiatry clinic: prevalence and associated diagnoses. Holroyd S. **J Geriatr Psychiatry Neurol** 1996 Oct;9(4):171–5

Idiopathic musical hallucinations in the elderly. Pasquini F, et al. **J Geriatr Psychiatry Neurol** 1997 Jan;10(1):11–4 (32 ref.)

Language planning processing in schizophrenia using the active or passive voice. Meyer SL, et al. **J Nerv Ment Dis** 1997 Jan;185(1):53–5

Cenesthetic hallucinations in a patient with Parkinson's disease [letter] Jiménez-Jiménez FJ, et al. **J Neurol Neurosurg Psychiatry** 1997 Jul;63(1):120

Auditory hallucinations and agenesis of the left internal carotid artery [letter] Cassar J, et al. **J Neuropsychiatry Clin Neurosci** 1996 Spring;8(2):231

Depression, delusions, and hallucinations in Alzheimer's disease: no relationship to apolipoprotein E genotype. Lyketsos CG, et al. **J Neuropsychiatry Clin Neurosci** 1997 Winter;9(1):64–7

Where do voices come from? Adler M. **J R Soc Med** 1997 Jan;90(1):28–32 (39 ref.)

An assessment of contextual mediation in trance states of

HALLUCINATIONS

shamanic journeys. Houran J, et al. **Percept Mot Skills** 1997 Aug;85(1):59–65

Hallucinations that comfort: contextual mediation of deathbed visions. Houran J, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1491–504

Contextual mediation of perceptions in hauntings and poltergeist-like experiences. Lange R, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):755–62

Plasma monoamine metabolites and spontaneous recurrence of methamphetamine-induced paranoid-hallucinatory psychosis: relation of noradrenergic activity to the occurrence of flashbacks. Yui K, et al. **Psychiatry Res** 1996 Jul 31;63(2–3):93–107

Pseudohallucinations: a conceptual history. Berrios GE, et al. **Psychol Med** 1996 Jul;26(4):753–63 (77 ref.)

Cognitive factors in source monitoring and auditory hallucinations. Morrison AP, et al. **Psychol Med** 1997 May; 27(3):669–79

Compulsions developing into command hallucinations. Klemperer F. **Psychopathology** 1996;29(4):249–51

Perceptual grouping due to pitch and amplitude in hallucinating schizophrenics. Nielzén S, et al. **Psychopathology** 1997;30(3):140–8

Musical hallucinations and musical imagery: prevalence and phenomenology in schizophrenic inpatients. Saba PR, et al. **Psychopathology** 1997;30(4):185–90

Erythropoietin and visual hallucinations in patients on dialysis. Steinberg H, et al. **Psychosomatics** 1996 Nov–Dec; 37(6):556–63

[When blind patients see...—(atypical) Charles-Bonnet syndrome] Gross A, et al. **Psychiatr Prax** 1997 May; 24(3):151–2 **(Ger)**

[Timing of occult practices-induced paranoid hallucinatory psychosis in 2 sisters] Metzger W, et al. **Psychiatr Prax** 1996 Jul;23(4):199–200 **(Ger)**

REHABILITATION

The model of functional deficits associated with hallucinations. MacRae A. **Am J Occup Ther** 1997 Jan; 51(1):57–63

THERAPY

Management of psychiatric symptoms of Parkinson's disease. Miyoshi K, et al. **Eur Neurol** 1996;36 Suppl 1:49–8 (28 ref.)

The behavioral treatment of auditory hallucinatory responding of a schizophrenic patient. Jimenez JM, et al. **J Behav Ther Exp Psychiatry** 1996 Sep;27(3):299–310

Auditory hallucinations in schizophrenia. Group experience in examining symptom management and behavioral strategies. Buccheri R, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Feb;34(2):12–26

HALLUCINOGENS

Assessment of neurotoxicity from potential medications for drug abuse: ibogaine testing and brain imaging. Vocci FJ, et al. **Ann N Y Acad Sci** 1997 May 30;820:29–39; discussion 39–40 (42 ref.)

Age-specific patterns of hallucinogen use in the US population: an analysis using generalized additive models. Chilcoat HD, et al. **Drug Alcohol Depend** 1996 Dec 11; 43(3):143–53

Ecstasy induced retropharyngeal emphysema. Onwudike M. **J Accid Emerg Med** 1996 Sep;13(5):359–61

Recent developments in the pharmacotherapy of substance abuse. O'Brien CP. **J Consult Clin Psychol** 1996 Aug; 64(4):677–86 (57 ref.)

MDMA (Ecstacy): useful information for health professionals involved in drug education programs. Elk C. **J Drug Educ** 1996;26(4):349–56 (14 ref.)

The case of hallucinogenic plants and the Internet. Micke MM. **J Sch Health** 1996 Oct;66(8):277–80

Hallucinogens: An Update. Proceedings of a meeting. July 13–14, 1992. **NIDA Res Monogr** 1994;146:1–301

Mood changes associated with isotretinoin and substance abuse [letter] Kovacs SO, et al. **Pediatr Dermatol** 1996 Jul–Aug;13(4):350

[Hallucinogenic mushrooms in Denmark] Holm JW, et al. **Ugeskr Laeger** 1997 Aug 18;159(34):5116–8 **(Dan)**

[Ecstasy: psychostimulant, hallucinogen and toxic substance] Burnat P, et al. **Presse Med** 1996 Sep 14;25(26):1208–12 (25 ref.) (Eng. Abstr.) **(Fre)**

[Ecstasy—the status in French-speaking Switzerland. Composition of seized drugs, analysis of biological specimens and short review of its pharmacological action and toxicity] Giroud C, et al. **Schweiz Rundsch Med Prax** 1997 Mar 25;86(13):510–23 (42 ref.) (Eng. Abstr.) **(Fre)**

[Hallucinogen induced psychic disorders. Subjective experiences, psychopathology and differential diagnosis] Hermle L, et al. **Fortschr Neurol Psychiatr** 1996 Dec; 64(12):482–91 (Eng. Abstr.) **(Ger)**

[Ecstasy, a new designer drug in the techno-scene] Kuhlmann T. **Psychiatr Prax** 1996 Nov;23(6):266–9 (10 ref.) (Eng. Abstr.) **(Ger)**

[Poisoning with Jimson weed. Five cases treated with physostigmine] Amlo H, et al. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2610–2 (Eng. Abstr.) **(Nor)**

[Drug abuse in 1997 in Poland (editorial)] Chruściel TL. **Przegl Lek** 1997;54(6):379–83 **(Pol)**

[MDMA or ecstasy: pharmacologic, toxicologic and clinical aspects] Prada C, et al. **Med Clin (Barc)** 1996 Oct 26; 107(14):549–55 (69 ref.) **(Spa)**

ADMINISTRATION & DOSAGE

Effects of administration regime on the psychotomimetic properties of d-amphetamine in the squirrel monkey (Saimiri sciureus). Sams-Dodd F, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):471–80

ADVERSE EFFECTS

Cannabinoids and immunity to Legionella pneumophila infection. Klein TW, et al. **Adv Exp Med Biol** 1996; 402:103–9 (20 ref.)

Cannabinoids and immunity to viruses. Specter S. **Adv Exp Med Biol** 1996;402:131–4 (11 ref.)

Phenomenologic comparison of the idiopathic psychosis of schizophrenia and drug-induced cocaine and phencyclidine psychoses: a retrospective study. Rosse RB, et al. **Clin Neuropharmacol** 1994 Aug;17(4):359–69

Adverse reactions with 3,4-methylenedioxymethamphetamine (MDMA; 'ecstasy'). McCann UD, et al. **Drug Saf** 1996 Aug;15(2):107–15 (88 ref.)

Acute inflammatory CNS disease after MDMA ('ecstasy'). Bitsch A, et al. **Eur Neurol** 1996;36(5):328–9

Concentration-effect relationship of delta-9-tetrahydrocannabiol and prediction of psychotropic effects after smoking marijuana. Harder S, et al. **Int J Clin Pharmacol Ther** 1997 Apr;35(4):155–9

Hyponatraemic coma after ecstasy ingestion [letter] Nuvials X, et al. **Intensive Care Med** 1997 Apr;23(4):480

Accidental ingestion of Ecstasy by a toddler: unusual cause for convulsion in a febrile child. Cooper AJ, et al. **J Accid Emerg Med** 1997 May;14(3):183–4

Adolescent dimenhydrinate abuse: resurgence of an old problem. Rowe C, et al. **J Adolesc Health** 1997 Jul; 21(1):47–9

Exacerbation of hallucinogen-persisting perception disorder with risperidone [letter; comment] Morehead DB. **J Clin Psychopharmacol** 1997 Aug;17(4):327–8. Comment on: J Clin Psychopharmacol 1996 Jun;16(3):238–41.

'Raver's' haematuria. Sultana SR, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):419–20

Magic mushrooms: hope for a 'cheap high' resulting in end-stage renal failure. Franz M, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2324–27

Hyponatraemia at à rave. Box SA, et al. **Postgrad Med J** 1997 Jan;73(855):53–4

[Commonplace use of "H"] Lagrue G, et al. **Presse Med** 1997 Feb 22;26(5):211–2 (Eng. Abstr.) **(Fre)**

[Auxiliary liver transplantation for acute liver failure after intake of 3,4-methylenedioxymethamphetamine ("Ecstasy")] Hellinger A, et al. **Dtsch Med Wochenschr** 1997 May 30;122(22):716–20 (Eng. Abstr.) **(Ger)**

[Is the anxiety about Ecstasy justified?] Möller-Nehring E, et al. **Fortschr Med** 1997 Mar 10;115(7):28, 31–2, 34 (Eng. Abstr.) **(Ger)**

["Nice young people looking for fun" (interview by Dr. rer nat. Anita Schweiger)] Tretter F. **Fortschr Med** 1997 Mar 10;115(7):44–6 **(Ger)**

[Ecstasy—the way to ecstasy or despair?] Mørland J. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2432–3 **(Nor)**

ANALYSIS

Determination of amphetamine and methylenedioxy-amphetamine-derivatives in hair. Röhrich J, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):179–88

Hair concentrations and self-reported abuse history of 20 amphetamine and ecstasy users. Rothe M, et al. **Forensic Sci Int** 1997 Sep 19;89(1–2):111–28

Analysis of "Ecstasy" by capillary electrophoresis. Frost M, et al. **Int J Legal Med** 1996;109(2):53–7

Determination of delta 9-tetrahydrocannabinol levels in brain tissue using high-performance liquid chromatography with electrochemical detection. Nyoni EC, et al. **J Chromatogr B Biomed Appl** 1996 Apr 26;679(1–2):79–84

Determination of psilocybin in Psilocybe semilanceata by capillary zone electrophoresis. Pedersen-Bjergaard S, et al. **J Chromatogr B Biomed Appl** 1997 Jul 4;694(2):375–81

ANTAGONISTS & INHIBITORS

Dantrolene and "ecstasy" [letter] [see comments] Denborough MA, et al. **Med J Aust** 1997 Feb 3;166(3):165–6. Comment in: Med J Aust 1997 Jul 21;167(2):109, 111.

BLOOD

Gas chromatographic/mass spectrometric determination of lysergic acid diethylamide (LSD) in serum samples. Musshoff F, et al. **Forensic Sci Int** 1997 Aug 4;88(2):133–40

Determination of ibogaine and 12-hydroxy-ibogamine in plasma by gas chromatography-positive ion chemical ionization-mass spectrometry. Alburges ME, et al. **J Anal Toxicol** 1995 Oct;19(6):381–6

A reliable method for the detection, confirmation, and quantitation of cannabinoids in blood. Goodall CR, et al. **J Anal Toxicol** 1995 Oct;19(6):419–26

Analysis of 3,4-methylenedioxymethamphetamine (MDMA) and its metabolites in plasma and urine by HPLC-DAD and GC-MS. Helmlin HJ, et al. **J Anal Toxicol** 1996 Oct; 20(6):432–40

Determination of ibogaine in plasma by gas chromatography--chemical ionization mass spectrometry. Ley FR, et al. **J Chromatogr A** 1996 Feb 2;723(1):101–9

Determination of LSD in blood by capillary electrophoresis with laser-induced fluorescence detection. Frost M, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):313–9

Determination of psilocin and 4-hydroxyindole-3-acetic acid in plasma by HPLC-ECD and pharmacokinetic profiles of oral and intravenous psilocybin in man. Hasler F, et al. **Pharm Acta Helv** 1997 Jun;72(3):175–84

CHEMICAL SYNTHESIS

Dihydrobenzofuran analogues of hallucinogens. 4. Mescaline derivatives. Monte AP, et al. **J Med Chem** 1997 Sep 12; 40(19):2997–3008

CHEMISTRY

Structure and function of serotonin 5-HT2 receptors. Shih JC, et al. **NIDA Res Monogr** 1994;146:284–97 (22 ref.)

Hallucinogens acting at 5-HT receptors: toward a mechanistic understanding at atomic resolution. Weinstein H, et al. **NIDA Res Monogr** 1994;146:241–62 (63 ref.)

ISOLATION & PURIFICATION

Plant hallucinogens: springboards for psychotherapeutic drug discovery. McKenna DJ. **Behav Brain Res** 1996; 73(1–2):109–16 (45 ref.)

METABOLISM

Metabolism of phencyclidine by human liver microsomes. Laurenzana EM, et al. **Drug Metab Dispos** 1997 May; 25(5):557–63

Adam and Eve make love. Analysis of the enantiomers of 3,4-methylenedioxy-N-ethylamphetamine (MDE, "Eve") and its metabolite 3,4-methylenedioxyamphetamine (MDA) in rat brain. Tucker G. **Hum Exp Toxicol** 1996 May;15(5):455–7

Quantitative determination of phencyclidine in pigmented and nonpigmented hair by ion-trap mass spectrometry. Slawson MH, et al. **J Anal Toxicol** 1996 Oct;20(6):350–4

On the metabolism and the toxicological analysis of methylenedioxyphenylalkylamine designer drugs by gas chromatography-mass spectrometry. Maurer HH. **Ther Drug Monit** 1996 Aug;18(4):465–70

PHARMACOKINETICS

Hair analysis for drug abuse. XV. Disposition of 3, 4-methylenedioxymethamphetamine (MDMA) and its related compounds into rat hair and application to hair analysis for MDMA abuse. Kikura R, et al. **Forensic Sci Int** 1997 Jan 17;84(1–3):165–77

Determination of psilocin and 4-hydroxyindole-3-acetic acid in plasma by HPLC-ECD and pharmacokinetic profiles of oral and intravenous psilocybin in man. Hasler F, et al. **Pharm Acta Helv** 1997 Jun;72(3):175–84

PHARMACOLOGY

Mood and cognitive effects of +/-3,4-methylenedioxymethamphetamine (MDMA, 'ecstasy'): week-end 'high' followed by mid-week low. Curran HV, et al. **Addiction** 1997 Jul;92(7):821–31

Alterations in responses to LSD in humans associated with chronic administration of tricyclic antidepressants, monoamine oxidase inhibitors or lithium. Bonson KR, et al. **Behav Brain Res** 1996;73(1–2):229–33

Psychobiologic effects of 3,4-methylenedioxymethamphetamine in humans: methodological considerations and preliminary observations. Grob CS, et al. **Behav Brain Res** 1996; 73(1–2):103–7

Plant hallucinogens: springboards for psychotherapeutic drug discovery. McKenna DJ. **Behav Brain Res** 1996; 73(1–2):109–16 (45 ref.)

The behavioral and neurochemical effects of phenyclidine in humans and animals: some implications for modeling psychosis. Steinpresis RE. **Behav Brain Res** 1996 Jan; 74(1–2):45–55 (195 ref.)

Human psychopharmacology of N,N-dimethyltryptamine. Strassman RJ. **Behav Brain Res** 1996;73(1–2):121–4

Inhibition of protein kinase A and cyclic AMP response element (CRE)-specific transcription factor binding by delta9-tetrahydrocannabinol (delta9-THC): a putative mechanism of cannabinoid-induced immune modulation. Koh WS, et al. **Biochem Pharmacol** 1997 May 15; 53(10):1477–84

Increased activation of indirect semantic associations under psilocybin. Spitzer M, et al. **Biol Psychiatry** 1996 Jun 15; 39(12):1055–7

Neuroendocrine and neurochemical effects of acute ibogaine administration: a time course evaluation. Ali SF, et al. **Brain Res** 1996 Oct 21;737(1–2):215–20

Effects of ibogaine and noribogaine on phosphoinositide hydrolysis. Rabin RA, et al. **Brain Res** 1996 Aug 26; 731(1–2):226–9

DOI disrupts prepulse inhibition of startle in rats via 5-HT2A receptors in the ventral pallidum. Sipes TE, et al. **Brain Res** 1997 Jun 27;761(1):97–104

Antinociceptive effects of the kappa-opioid receptor agonist

RP 60180 compared with pentazocine in an experimental human pain model. Lötsch J, et al.
Clin Neuropharmacol 1997 Jun;20(3):224–33

Metabolic inactivation of cytochrome P4502B1 by phencyclidine: immunochemical and radiochemical analyses of the protective effects of glutathione. Sharma U, et al. **Drug Metab Dispos** 1997 Feb;25(2):243–50

delta 9–Tetrahydrocannabinol increases proopiomelanocortin gene expression in the arcuate nucleus of the rat hypothalamus. Corchero J, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):193–5

(R)–methanandamide, but not anandamide, substitutes for delta 9–THC in a drug–discrimination procedure. Burkey RT, et al. **Exp Clin Psychopharmacol** 1997 Aug; 5(3):195–202

Are choice and self–administration of marijuana related to delta 9–THC content? Kelly TH, et al.
Exp Clin Psychopharmacol 1997 Feb;5(1):74–82

Tau protein after delta–9–tetrahydrocannabinol in a human neuroblastoma cell line. Lew GM. **Gen Pharmacol** 1996 Oct;27(7):1141–3

The effect of orally and rectally administered delta 9–tetrahydrocannabinol on spasticity: a pilot study with 2 patients. Brenneisen R, et al.
Int J Clin Pharmacol Ther 1996 Oct;34(10):446–52

Absence of alkaloids in Psychotria carthagenensis Jacq. (Rubiaceae). Leal MB, et al. **J Ethnopharmacol** 1996 Oct; 54(1):37–40

Characterisation of human 5–hydroxytryptamine2A and 5–hydroxytryptamine2C receptors expressed in the human neuroblastoma cell line SH–SY5Y: comparative stimulation by hallucinogenic drugs. Newton RA, et al.
J Neurochem 1996 Dec;67(6):2521–31

The psychotomimetic drugs D–amphetamine and phencyclidine release calcitonin gene–related peptide in the limbic forebrain of the rat. Mathé AA, et al.
J Neurosci Res 1996 Nov 1;46(3):316–23

LSD and the phenethylamine hallucinogen DOI are potent partial agonists at 5–HT2A receptors on interneurons in rat piriform cortex. Marek GJ, et al.
J Pharmacol Exp Ther 1996 Sep;278(3):1373–82

Bufo toads and bufotenine: fact and fiction surrounding an alleged psychedelic. Lyttle T, et al.
J Psychoactive Drugs 1996 Jul–Sep;28(3):267–90 (750 ref.)

The psychopharmacology of hallucinogens. Abraham HD, et al. **Neuropsychopharmacology** 1996 Apr;14(4):285–98 (78 ref.)

Chronic administration of serotonergic antidepressants attenuates the subjective effects of LSD in humans. Bonson KR, et al. **Neuropsychopharmacology** 1996 Jun;14(6):425–36

Delta 9–tetrahydrocannabinol increases prefrontal cortical catecholaminergic utilization and impairs spatial working memory in the rat: blockade of dopaminergic effects with HA966. Jentsch JD, et al. **Neuropsychopharmacology** 1997 Jun;16(6):426–32

Positron emission tomography and fluorodeoxyglucose studies of metabolic hyperfrontality and psychopathology in the psilocybin model of psychosis. Vollenweider FX, et al. **Neuropsychopharmacology** 1997 May;16(5):357–72

Hallucinogenic agents: drugs of abuse as neurochemical tools. **NIDA Res Monogr** 1994;140:94–8

Electrophysiological studies on the actions of hallucinogenic drugs at 5–HT2 receptors in rat brain. Aghajanian GK. **NIDA Res Monogr** 1994;146:183–202 (49 ref.)

Autoradiographic approaches to studying hallucinogens or other drugs. Appel NM. **NIDA Res Monogr** 1994; 146:214–40 (98 ref.)

Serotonin receptor involvement in an animal model of the acute effects of hallucinogens. Geyer MA, et al.
NIDA Res Monogr 1994;146:124–56 (59 ref.)

Classical hallucinogens: an introductory overview. Glennon RA. **NIDA Res Monogr** 1994;146:4–32 (27 ref.)

Structure–activity relationships of the classic hallucinogens and their analogs. Jacob P 3rd, et al.
NIDA Res Monogr 1994;146:74–91 (4 ref.)

Lysergamides revisited. Pfaff RC, et al.
NIDA Res Monogr 1994;146:52–73 (13 ref.)

Neurochemical evidence that hallucinogenic drugs are 5–HT1c receptor agonists: what next? Sanders–Bush E.
NIDA Res Monogr 1994;146:203–13 (20 ref.)

Structure and function of serotonin 5–HT2 receptors. Shih JC, et al. **NIDA Res Monogr** 1994;146:284–97 (22 ref.)

Human hallucinogenic drug research: regulatory, clinical, and scientific issues. Strassman RJ. **NIDA Res Monogr** 1994;146:92–123 (90 ref.)

Are hallucinogens psychoheuristic? Szára S.
NIDA Res Monogr 1994;146:33–51

Hallucinogens acting at 5–HT receptors: toward a mechanistic understanding at atomic resolution. Weinstein H, et al. **NIDA Res Monogr** 1994;146:241–62 (63 ref.)

Molecular modeling of the interaction of LSD and other hallucinogens with 5–HT2 receptors. Westkaemper RB, et al. **NIDA Res Monogr** 1994;146:263–83 (32 ref.)

The stimulus effects of serotonergic hallucinogens in animals. Winter JC. **NIDA Res Monogr** 1994;146:157–82 (73 ref.)

Assessment of the MDA and MDMA optical isomers in a stimulant–hallucinogen discrimination. Baker LE, et al.
Pharmacol Biochem Behav 1997 Aug;57(4):737–48

Cannabinoid–induced alterations in regional cerebral blood flow in the rat. Bloom AS, et al.
Pharmacol Biochem Behav 1997 Aug;57(4):625–31

Acute effects of LSD on rhesus monkey operant test battery performance. Frederick DL, et al.
Pharmacol Biochem Behav 1997 Aug;57(4):633–41

MDMA and d–amphetamine produce comparable effects in pigeons performing under a multiple fixed–ratio interresponse–time–greater–than–t schedule of food delivery. LeSage M, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):173–7

Sex differences in ibogaine antagonism of morphine–induced locomotor activity and in ibogaine brain levels and metabolism. Pearl SM, et al. **Pharmacol Biochem Behav** 1997 Aug;57(4):809–15

Cross–sensitization between phencyclidine and (–) but not (+) pentazocine. Xu X, et al.
Pharmacol Biochem Behav 1997 Feb;56(2):205–10

Cocaine––stimulus generalization to MDA optical isomers: a reevaluation. Young R, et al.
Pharmacol Biochem Behav 1997 May–Jun;57(1–2):115–8

An appraisal of the pharmacological and toxicological effects of a single oral administration of 3,4–methylenedioxymethamphetamine (MDMA) in the rat. De Souza I, et al. **Pharmacol Toxicol** 1997 May; 80(5):207–10

Differential ontogenesis of three DOI–induced behaviors in mice. Darmani NA, et al. **Physiol Behav** 1996 Dec; 60(6):1495–500

Actions of methoxylated amphetamine hallucinogens on serotonergic neurons of the brain. Penington NJ.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Aug; 20(6):951–65

Stable quantitative EEG difference in post–LSD visual disorder by split–half analysis: evidence for disinhibition. Abraham HD, et al. **Psychiatry Res** 1996 Oct 7;67(3):173–87

Persisting changes in brain glucose uptake following neurotoxic doses of phencyclidine which mirror the acute effects of the drug. Ellison GD, et al.
Psychopharmacology (Berl) 1996 Aug;126(3):271–4

Abnormal ACTH and prolactin responses to fenfluramine in rats exposed to single and multiple doses of MDMA. Poland RE, et al. **Psychopharmacology (Berl)** 1997 Jun; 131(4):411–9

Progressive ratio and behavioral economic evaluation of the reinforcing efficacy of orally delivered phencyclidine and ethanol in monkeys: effects of feeding conditions. Rodefer JS, et al. **Psychopharmacology (Berl)** 1996 Dec; 128(3):265–73

A comparison of progressive ratio schedules versus behavioral economic measures: effect of an alternative reinforcer on the reinforcing efficacy of phencyclidine. Rodefer JS, et al. **Psychopharmacology (Berl)** 1997 Jul; 132(1):95–103

Cortical and hippocampal EEG power spectra in animal models of schizophrenia produced with methamphetamine, cocaine, and phencyclidine. Yamamoto J.
Psychopharmacology (Berl) 1997 Jun;131(4):379–87

Phencyclidine produces changes in NMDA and kainate receptor binding in rat hippocampus over a 48–hour time course. Gao XM, et al. **Synapse** 1996 Aug;23(4):274–9

[The ethnopharmacology of hallucinogens: from "primitive rites" to their "presence" on TV. Proposals for the year 2000] Cugurra F. **Clin Ter** 1996 Nov;147(11):537–42 (Eng. Abstr.) **(Ita)**

POISONING

3,4–methylenedioxymethamphetamine (MDMA, or "ecstasy") and associated hypoglycemia [letter] Montgomery H, et al. **Am J Emerg Med** 1997 Mar;15(2):218

Severe ketoacidosis complicated by 'ecstasy' ingestion and prolonged exercise. Seymour HR, et al. **Diabet Med** 1996 Oct;13(10):908–9

MDMA induced hyperthermia: report of a fatality and review of current therapy. Dar KJ, et al.
Intensive Care Med 1996 Sep;22(9):995–6 (13 ref.)

GC/MS comparison of the West Indian aphrodisiac "Love Stone" to the Chinese medication "chan su": bufotenine and related bufadienolides. Barry TL, et al. **J Forensic Sci** 1996 Nov;41(6):1068–73

A pure amnestic syndrome after MDMA ("ecstasy") ingestion [letter] Spatt J, et al. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):418–9

Hyponatraemia and death after "ecstasy" ingestion. Parr MJ, et al. **Med J Aust** 1997 Feb 3;166(3):136–7

Prolonged elevation of serum creatine kinase (CK) without renal failure after ingestion of ecstasy [letter] Williams A, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):361–2

[Thorn apple poisoning] Koevoets PF, et al.
Ned Tijdschr Geneeskd 1997 May 3;141(18):888–9 (Eng. Abstr.) **(Dut)**

[Poisoning with narcotics and hallucinogens in material from the Clinic of Acute Poisoning in Lodz (1993–1996)] Kotwica M, et al. **Przegl Lek** 1997;54(6):399–403 (Eng. Abstr.) **(Pol)**

[The toxicological aspects of poisonings by psilocybine–containing mushrooms] Babakhanian RV, et al. **Sud Med Ekspert** 1997 Jul–Sep;40(3):20–2 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Set, setting, and matrix. Eisner B. **J Psychoactive Drugs** 1997 Apr–Jun;29(2):213–6 (6 ref.)

Ketamine psychedelic therapy (KPT): a review of the results of ten years of research. Krupitsky EM, et al.
J Psychoactive Drugs 1997 Apr–Jun;29(2):165–83 (55 ref.)

TOXICITY

Ibogaine neurotoxicity: a re–evaluation. Molinari HH, et al. **Brain Res** 1996 Oct 21;737(1–2):255–62

Isoflurane and propofol block neurotoxicity caused by MK–801 in the rat posterior cingulate/retrosplenial cortex. Jevtović–Todorović V, et al.
J Cereb Blood Flow Metab 1997 Feb;17(2):168–74

Methamphetamine and methylenedioxymethamphetamine neurotoxicity: possible mechanisms of cell destruction. Seiden LS, et al. **NIDA Res Monogr** 1996;163:251–76 (103 ref.)

Developmental toxicity of 4–substituted amphetamines in mice. Buttar HS, et al. **Reprod Toxicol** 1996 Jul–Aug; 10(4):301–10

[The toxicological aspects of poisonings by psilocybine–containing mushrooms] Babakhanian RV, et al. **Sud Med Ekspert** 1997 Jul–Sep;40(3):20–2 (Eng. Abstr.) **(Rus)**

[Hepatitis and Ecstasy (letter)] Pascual Bartolomé S, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):279 **(Spa)**

URINE

Quantification of 9–carboxy–11–nor–delta 9–tetrahydrocannabinol in urine using brominated 9–carboxy–11–nor–delta 9–tetrahydrocannabinol as the internal standard and high–performance liquid chromatography with electrochemical detection. Fisher DH, et al. **Biomed Chromatogr** 1996 Jul–Aug;10(4):161–6

Quantitative and qualitative analysis of MDMA, MDEA, MA and amphetamine in urine by headspace/solid phase micro–extraction (SPME) and GC/MS. Centini F, et al. **Forensic Sci Int** 1996 Dec 27;83(3):161–6

MDA–MDMA concentrations in urine specimens. Kunsman GW, et al. **J Anal Toxicol** 1996 Nov–Dec;20(7):517–21

High–performance thin–layer chromatographic determination of N–ethyl–3,4–methylenedioxyamphetamine and its major metabolites in urine and comparison with high–performance liquid chromatography. Pisternick W, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):63–9

HALLUCINOSIS, ORGANIC see **ORGANIC MENTAL DISORDERS, PSYCHOTIC**

HALLUX

Nodular fasciitis of the hallux: difficulties in diagnosis. Spagnolli G, et al. **Acta Orthop Belg** 1997 Mar;63(1):46–9

Train–of–four and double burst stimulation fade at the great toe and thumb. Saitoh Y, et al. **Can J Anaesth** 1997 Apr; 44(4):390–5

Hallux limitus and hallux rigidus. Clinical examination, radiographic findings, and natural history. Camasta CA.
Clin Podiatr Med Surg 1996 Jul;13(3):423–48 (64 ref.)

Sesamoid complex disorders. Oloff LM, et al.
Clin Podiatr Med Surg 1996 Jul;13(3):497–513 (36 ref.)

Autogenous bone grafting of hallux sesamoid nonunions. Anderson RB, et al. **Foot Ankle Int** 1997 May;18(5):293–6

Roger Mann Award 1995. Capsular interposition arthroplasty for severe hallux rigidus. Hamilton WG, et al.
Foot Ankle Int 1997 Feb;18(2):68–70

Dermatofibrosarcoma protuberans of the hallux. Behfar KN, et al. **J Am Podiatr Med Assoc** 1996 Mar;86(3):126–8

Dislocation of the interphalangeal joint of the great toe [letter] Thomas J, et al. **J Am Podiatr Med Assoc** 1996 Mar;86(3):133–5

The hallucal interphalangeal sesamoid [see comments] Roukis TS, et al. **J Foot Ankle Surg** 1996 Jul–Aug;35(4):303–8; discussion 372 (17 ref.). Comment in: J Foot Ankle Surg 1997 Jan–Feb;36(1):76–7.

Bronchogenic carcinoma mimicking paronychia and osteomyelitis in the great toe. Shepherd DM, et al.
J Foot Ankle Surg 1997 Mar–Apr;36(2):115–9

Closed reduction of a rare type III dislocation of the first metatarsophalangeal joint. Tondera EK, et al.
J Manipulative Physiol Ther 1996 Sep;19(7):475–9

ABNORMALITIES

Biomechanical assessment of a new tenodesis for correction of hallux varus. Juliano PJ, et al. **Foot Ankle Int** 1996 Jan; 17(1):17–20

Results of hallux varus correction using an extensor hallucis brevis tenodesis. Myerson MS, et al. **Foot Ankle Int** 1996 Jan;17(1):21–7

Concomitant syndactyly and polydactyly in a pediatric foot. Adler J, et al. **J Foot Ankle Surg** 1997 Mar–Apr;36(2):151–4

INJURIES

Incarcerated subhallucal sesamoid of the great toe: irreducible dislocation of the interphalangeal joint of the great toe by an accessory sesamoid bone. Berger JL, et al. **Am J Orthop** 1997 Mar;26(3):226–8

Distally based dorsalis pedis island flap for a distal lateral electric burn of the big toe. Governa M, et al. **Burns** 1996 Dec;22(8):641–3

Sesamoid bone interposition complicating reduction of a hallux joint dislocation. Ward SJ, et al.
J Accid Emerg Med 1996 Jul;13(4):297–8

HALLUX

Nailbed injuries with hallucal phalangeal fractures--evaluation and treatment. Tucker DJ, et al. **J Am Podiatr Med Assoc** 1996 Apr;86(4):170-3 (11 ref.)

INNERVATION

Origin and course of the dorsomedial cutaneous nerve to the great toe. Miller RA, et al. **Foot Ankle Int** 1996 Oct; 17(10):620-2

PATHOLOGY

Congenital hypertrophy of the lateral nail folds of the hallux in twins [letter] Cambiaghi S, et al. **Br J Dermatol** 1997 Apr;136(4):635-6

Acquired hallux varus. Donley BG. **Foot Ankle Int** 1997 Sep; 18(9):586-92 (32 ref.)

Geometric data of hallux valgus feet. Lamur KS, et al. **Foot Ankle Int** 1996 Sep;17(9):548-54

PHYSIOLOGY

Hallucal rotation: a method of measurement and relationship to bunion deformity. Talbot KD, et al. **Foot Ankle Int** 1997 Sep;18(9):550-6

PHYSIOPATHOLOGY

The effect of hallux sesamoid excision on the flexor hallucis longus moment arm. Aper RL, et al. **Clin Orthop** 1996 Apr;(325):209-17

Hallux limitus in the athlete. Lichniak JE. **Clin Podiatr Med Surg** 1997 Jul;14(3):407-26 (24 ref.)

Tricorrectional osteotomy for the correction of late-stage hallux limitus/rigidus. Selner AJ, et al. **J Am Podiatr Med Assoc** 1997 Sep;87(9):414-24

Hallux rigidus: the long-term results of dorsal wedge osteotomy and arthrodesis in adults. Southgate JJ, et al. **J Foot Ankle Surg** 1997 Mar-Apr;36(2):136-40; discussion 161

RADIOGRAPHY

Hallucal rotation: a method of measurement and relationship to bunion deformity. Talbot KD, et al. **Foot Ankle Int** 1997 Sep;18(9):550-6

A small and painful puzzle. Adler RH, et al. **Pain** 1997 Jan; 69(1-2):211-2

SURGERY

Arthrodesis of the first metatarsophalangeal joint in active people. Bouché RT, et al. **Clin Podiatr Med Surg** 1996 Jul; 13(3):461-84 (21 ref.)

Stepwise approach to hallux limitus. A surgical perspective. Chang TJ. **Clin Podiatr Med Surg** 1996 Jul;13(3):449-59 (14 ref.)

Current concepts of absorbable fixation in first ray surgery. Cicchinelli LD, et al. **Clin Podiatr Med Surg** 1996 Jul; 13(3):533-47 (45 ref.)

Tendon arthroplasty of the first metatarsophalangeal joint in hallux rigidus: preliminary communication. Barca F. **Foot Ankle Int** 1997 Apr;18(4):222-8

Biomechanical assessment of a new tenodesis for correction of hallux varus. Juliano PJ, et al. **Foot Ankle Int** 1996 Jan; 17(1):17-20

Results of hallux varus correction using an extensor hallucis brevis tenodesis. Myerson MS, et al. **Foot Ankle Int** 1996 Jan;17(1):21-7

Use of titanium grommets in silicone implant arthroplasty of the hallux metatarsophalangeal joint. Sebold EJ, et al. **Foot Ankle Int** 1996 Mar;17(3):145-51

Hallux valgus in the elderly: metatarsophalangeal arthrodesis of the first ray. Tourné Y, et al. **Foot Ankle Int** 1997 Apr; 18(4):195-8

Hallux interphalangeal joint sesamoidectomy. Yu GV, et al. **J Am Podiatr Med Assoc** 1996 Mar;86(3):105-11

Antibiotic prophylaxis and tourniquet application in podiatric surgery. Deacon JS, et al. **J Foot Ankle Surg** 1996 Jul-Aug; 35(4):344-9 (31 ref.)

The modified Jones procedure for pes cavovarus with claw hallux. de Palma L, et al. **J Foot Ankle Surg** 1997 Jul-Aug; 36(4):279-83

The natural history of great toe amputations. Murdoch DP, et al. **J Foot Ankle Surg** 1997 May-Jun;36(3):204-8; discussion 256

Hallux amputation in combination with a lumbar sympathectomy for treatment of a non-healing ulceration in a patient with Buerger's disease. O'Connor KJ, et al. **J Foot Ankle Surg** 1996 Jul-Aug;35(4):339-43

Hallux rigidus: the long-term results of dorsal wedge osteotomy and arthrodesis in adults. Southgate JJ, et al. **J Foot Ankle Surg** 1997 Mar-Apr;36(2):136-40; discussion 161

TRANSPLANTATION

Composite big-toe flap of nail, nail matrix, and bone for replacement of a thumb defect: case report. Lorea P, et al. **J Reconstr Microsurg** 1997 Jan;13(1):7-8

HALLUX ABDUCTOVALGUS see **HALLUX VALGUS**

HALLUX VALGUS

[Hallux valgus and other disclocations (letter; comment)] Jessen KE. **Ugeskr Laeger** 1996 Dec 9;158(50):7256. Comment on: Ugeskr Laeger 1996 Sep 9;158(37):5140. **(Dan)**

COMPLICATIONS

[Correction of high-grade sesamoid bone dislocation in hallux valgus using Austin's osteotomy with and without lateral soft tissue release] Trnka HJ, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar-Apr;135(2):150-6 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Hallux valgus. Coughlin MJ. **Instr Course Lect** 1997; 46:357-91 (151 ref.)

How to examine a foot and what to do with a bunion. Nork SE, et al. **Prim Care** 1996 Jun;23(2):281-97

DRUG THERAPY

The podiatric treatment of hallux abducto valgus and its associated condition, bunion, with Tagetes patula. Khan MT. **J Pharm Pharmacol** 1996 Jul;48(7):768-70

EPIDEMIOLOGY

A comparative study of foot morphology between Filipino and Japanese women, with reference to the significance of a deformity like hallux valgus as a normal variation. Kusumoto A, et al. **Ann Hum Biol** 1996 Sep-Oct; 23(5):373-85

[The forefoot (editorial)] Bauer R, et al. **Orthopade** 1996 Aug; 25(4):301 **(Ger)**

ETIOLOGY

The traumatic bunion. Bohay DR, et al. **Foot Ankle Int** 1996 Jul;17(7):383-7

Hallux valgus due to cuneiform-metatarsal instability. Johnson KA, et al. **J South Orthop Assoc** 1994 Winter; 3(4):273-82

[Juvenile hallux valgus] Zollinger H, et al. **Orthopade** 1996 Aug;25(4):349-53 (Eng. Abstr.) **(Ger)**

HISTORY

Arthrodesis of the first metatarsophalangeal joint for hallux valgus in rheumatoid arthritis. 1984 [classical article] Mann RA, et al. **Foot Ankle Int** 1997 Feb;18(2):65-7

PATHOLOGY

Hallux valgus in men: effect of the distal metatarsal articular angle on hallux valgus correction. Coughlin MJ. **Foot Ankle Int** 1997 Aug;18(8):463-70

Geometric data of hallux valgus feet. Lamur KS, et al. **Foot Ankle Int** 1996 Sep;17(9):548-54

Tendon shift in hallux valgus: observations at MR imaging. Eustace S, et al. **Skeletal Radiol** 1996 Aug;25(6):519-24

PHYSIOPATHOLOGY

Anatomic determinants of first metatarsophalangeal flexion moments in hallux valgus. Saltzman CL, et al. **Clin Orthop** 1997 Jun;(339):261-9

Hallucal rotation: a method of measurement and relationship to bunion deformity. Talbot KD, et al. **Foot Ankle Int** 1997 Sep;18(9):550-6

RADIOGRAPHY

Clinical and radiological results after Austin bunionectomy for treatment of hallux valgus. Trnka HJ, et al. **Arch Orthop Trauma Surg** 1996;115(3-4):171-5

Pictorial review: foot axes and angles. Gentili A, et al. **Br J Radiol** 1996 Oct;69(826):968-74 (5 ref.)

Radiographic analysis of hallux valgus in women on weightbearing and nonweightbearing. Tanaka Y, et al. **Clin Orthop** 1997 Mar;(336):186-94

The chevron osteotomy: a clinical and radiographic analysis. Mann RA, et al. **Foot Ankle Int** 1997 May;18(5):255-61

Clinical and radiographic evaluation of Wilson osteotomy for hallux valgus. Pouliart N, et al. **Foot Ankle Int** 1996 Jul;17(7):388-94

Coronal plane rotation of the first metatarsal [see comments] Saltzman CL, et al. **Foot Ankle Int** 1996 Mar;17(3):157-61 . Comment in: Foot Ankle Int 1996 Nov;17(11):720-1.

Hallucal rotation: a method of measurement and relationship to bunion deformity. Talbot KD, et al. **Foot Ankle Int** 1997 Sep;18(9):550-6

REHABILITATION

Continuous passive motion [letter; comment] Scarlet JJ. **J Am Podiatr Med Assoc** 1996 Apr;86(4):189-90. Comment on: J Am Podiatr Med Assoc 1995 Dec;85(12):744-8.

SURGERY

Proximal osteotomy in hallux valgus, long-term results of 167 operated feet. A retrospective study. Haapaniemi TM, et al. **Arch Orthop Trauma Surg** 1997;116(6-7):376-8

Hallux valgus in young patients: long-term results after McBride operation. Schwitalle M, et al. **Arch Orthop Trauma Surg** 1997;116(6-7):412-4

Clinical and radiological results after Austin bunionectomy for treatment of hallux valgus. Trnka HJ, et al. **Arch Orthop Trauma Surg** 1996;115(3-4):171-5

Application of a NiTi staple in the metatarsal osteotomy. Tang RG, et al. **Biomed Mater Eng** 1996;6(4):307-12

Modified Mitchell bunionectomy for management of adolescent hallux valgus. McDonald MG, et al. **Clin Orthop** 1996 Nov;(332):163-9

Anatomic determinants of first metatarsophalangeal flexion moments in hallux valgus. Saltzman CL, et al. **Clin Orthop** 1997 Jun;(339):261-9

Hallux valgus surgery. Morton and Lapidus were right! Hansen ST Jr. **Clin Podiatr Med Surg** 1996 Jul;13(3):347-54 (6 ref.)

The Lapidus procedure. Hofbauer MH, et al. **Clin Podiatr Med Surg** 1996 Jul;13(3):485-96 (25 ref.)

Alternatives to the closing base wedge osteotomy. Martin DE, et al. **Clin Podiatr Med Surg** 1996 Jul;13(3):515-31 (14 ref.)

Angular surgical corrections for hallux valgus. Pagliano JW. **Clin Podiatr Med Surg** 1997 Jul;14(3):427-45 (21 ref.)

Iatrogenic deformities of the first ray. Yu GV, et al. **Clin Podiatr Med Surg** 1996 Jul;13(3):367-422 (69 ref.)

Internal fixation of the proximal chevron osteotomy. Anderson RB, et al. **Foot Ankle Int** 1997 Jun;18(6):371-2

An anatomical basis for the degree of displacement of the distal chevron osteotomy in the treatment of hallux valgus. Badwey TM, et al. **Foot Ankle Int** 1997 Apr;18(4):213-5

Hallux valgus in men: effect of the distal metatarsal articular angle on hallux valgus correction. Coughlin MJ. **Foot Ankle Int** 1997 Aug;18(8):463-70

Acquired hallux varus. Donley BG. **Foot Ankle Int** 1997 Sep; 18(9):586-92 (32 ref.)

Advanced hallux valgus deformity: long-term results utilizing the distal soft tissue procedure and proximal metatarsal osteotomy. Dreeben S, et al. **Foot Ankle Int** 1996 Mar;17(3):142-4

Prospective, randomized comparison of proximal crescentic and proximal chevron osteotomies for correction of hallux valgus deformity. Easley ME, et al. **Foot Ankle Int** 1996 Jun;17(6):307-16

A further modification to the McBride procedure for hallux valgus using the Acufex tag system to reattach the adductor hallucis. Harris NJ, et al. **Foot Ankle Int** 1997 Jan; 18(1):57-8

Distal soft tissue release using direct and indirect approaches: an anatomic study. Lin I, et al. **Foot Ankle Int** 1996 Aug; 17(8):458-63

The chevron osteotomy: a clinical and radiographic analysis. Mann RA, et al. **Foot Ankle Int** 1997 May;18(5):255-61

Proximal metatarsal osteotomy in hallux valgus correction: a comparison of crescentic and chevron procedures. Markbreiter LA, et al. **Foot Ankle Int** 1997 Feb;18(2):71-6

Treatment of established nonunions of Mitchell osteotomies. O'Malley MJ, et al. **Foot Ankle Int** 1997 Feb;18(2):77-80

Osteolytic changes after polyglycolide pin fixation in chevron osteotomy. Pelto-Vasenius K, et al. **Foot Ankle Int** 1997 Jan;18(1):21-5

Clinical and radiographic evaluation of Wilson osteotomy for hallux valgus. Pouliart N, et al. **Foot Ankle Int** 1996 Jul;17(7):388-94

The Mayday distal first metatarsal osteotomy for hallux valgus: a review after the introduction of a new instrument. Terzis GD, et al. **Foot Ankle Int** 1997 Jan;18(1):3-7

Combination chevron plus Akin osteotomy for hallux valgus: should age be a limiting factor? Tollison ME, et al. **Foot Ankle Int** 1997 Aug;18(8):477-81

Hallux valgus in the elderly: metatarsophalangeal arthrodesis of the first ray. Tourné Y, et al. **Foot Ankle Int** 1997 Apr; 18(4):195-8

Acquired hallux varus and clinical tolerability. Trnka HJ, et al. **Foot Ankle Int** 1997 Sep;18(9):593-7

Modified Austin procedure for correction of hallux valgus. Trnka HJ, et al. **Foot Ankle Int** 1997 Mar;18(3):119-27 (28 ref.)

Comparison of bioabsorbable pins and Kirschner wires in the fixation of chevron osteotomies for hallux valgus. Winemaker MJ, et al. **Foot Ankle Int** 1996 Oct;17(10):623-8

Shortening of the first metatarsal following closing base wedge osteotomy. Banks AS, et al. **J Am Podiatr Med Assoc** 1997 May;87(5):199-208

Autogenous calcaneal bone graft repair of a closing base wedge osteotomy nonunion. Pontious J, et al. **J Am Podiatr Med Assoc** 1996 Jan;86(1):25-32

Tailor's bunion. Is fixation necessary? [see comments] Pontious J, et al. **J Am Podiatr Med Assoc** 1996 Feb; 86(2):63-73. Comment in: J Physiol (Lond) 1996 Feb 1;490(Pt 3):691-702.

Austin/chevron osteotomy fixed with bioabsorbable poly-L-lactic acid single screw. Barca F, et al. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):15-20; discussion 79-80

Resorbable poly-L-lactic acid mini-staples for the fixation of Akin osteotomies. Barca F, et al. **J Foot Ankle Surg** 1997 Mar-Apr;36(2):106-11; discussion 160

The "Z" osteotomy versus the Kalish osteotomy for the correction of hallux abducto valgus deformities: a retrospective analysis. Day MR, et al. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):44-50; discussion 80

The misuse of the Lapidus procedure [letter; comment] Delmonte R, et al. **J Foot Ankle Surg** 1997 Jan-Feb; 36(1):72-3. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):355-61; discussion 371-2.

The misuse of the Lapidus procedure [letter; comment] Frankel JP. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):71-2. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):355-61; discussion 371-2.

The misuse of the Lapidus procedure: re-evaluation of the preoperative criteria [see comments] Frankel JP, et al. **J Foot Ankle Surg** 1996 Jul-Aug;35(4):355-61; discussion 371-2 (29 ref.). Comment in: J Foot Ankle Surg 1997 Jan-Feb;36(1):71-2. Comment in: J Foot Ankle Surg 1997 Jan-Feb;36(1);72-3. Comment in: J Foot Ankle Surg 1997 Jan-Feb;36(1);73-4. Comment in: J Foot Ankle Surg 1997 Jan-Feb;36(1):74-6.

Austin bunionectomy using single screw fixation: five-year versus 18-month follow-up findings. Goforth WP, et al. **J Foot Ankle Surg** 1996 May-Jun;35(3):255-9

The Biomet Total Toe System utilizing the Koenig score: a five-year review. Koenig RD, et al. **J Foot Ankle Surg** 1996 Jan-Feb;35(1):23-6

The misuse of the Lapidus procedure [letter; comment] Rutherford RL. **J Foot Ankle Surg** 1997 Jan-Feb;36(1):74-6 . Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):355-61; discussion 371-2.

The Ludloff osteotomy: a critical analysis. Saxena A, et al. **J Foot Ankle Surg** 1997 Mar-Apr;36(2):100-5; discussion 159-60

Z-bunionectomy: retrospective long-term study. Schoen NS, et al. **J Foot Ankle Surg** 1996 Jul-Aug;35(4):312-7

The misuse of the Lapidus procedure [letter; comment] Wraalstad R, et al. **J Foot Ankle Surg** 1997 Jan-Feb; 36(1):73-4. Comment on: J Foot Ankle Surg 1996 Jul-Aug;35(4):355-61; discussion 371-2.

Chevron bunionectomy with microplate and screw fixation: a retrospective follow-up of 26 feet. Yearian PR, et al. **J Foot Ankle Surg** 1996 Nov-Dec;35(6):532-6; dicussion 601

Distal chevron osteotomy with intra-articular lateral soft-tissue release for treatment of moderate to severe hallux valgus deformity. Chen YJ, et al. **J Formos Med Assoc** 1996 Oct;95(10):776-81

Hallux valgus due to cuneiform-metatarsal instability. Johnson KA, et al. **J South Orthop Assoc** 1994 Winter; 3(4):273-82

Modified Mitchell's bunionectomy (Wu's bunionectomy). Wu KK. **Orthopedics** 1997 Mar;20(3):253-7

[Treatment of hallux valgus by varus osteotomy of the first phalanx associated with adductor plasty] Jardé O, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):541-8 (Eng. Abstr.) **(Fre)**

[Magerl's subcapital osteotomy in the treatment of hallux valgus] Frischhut B, et al. **Orthopade** 1996 Aug; 25(4):317-23 (Eng. Abstr.) **(Ger)**

[Treatment of hallux valgus. Distal soft-tissue procedures and proximal metatarsal osteotomy] Mann RA. **Orthopade** 1996 Aug;25(4):302-7 (Eng. Abstr.) **(Ger)**

[Austin's horizontal V-shaped sliding osteotomy of the metatarsal head [Chevron-osteotomy) in the treatment of hallux valgus] Steinböck G. **Orthopade** 1996 Aug; 25(4):308-16 (62 ref.) (Eng. Abstr.) **(Ger)**

[Resection arthroplasty in the treatment of hallux valgus] Viladot R, et al. **Orthopade** 1996 Aug;25(4):324-31 (Eng. Abstr.) **(Ger)**

[Hallux valgus] Wülker N. **Orthopade** 1997 Jul;26(7):654-64 (25 ref.) **(Ger)**

[Sesamoid bone complex and hallux valgus deformity. A retrospective analysis of 82 Mitchell osteotomies] Wetzel R, et al. **Z Orthop Ihre Grenzgeb** 1996 Nov-Dec; 134(6):524-32 (Eng. Abstr.) **(Ger)**

THERAPY

Hallux valgus. Coughlin MJ. **Instr Course Lect** 1997; 46:357-91 (151 ref.)

[Juvenile hallux valgus] Zollinger H, et al. **Orthopade** 1996 Aug;25(4):349-53 (Eng. Abstr.) **(Ger)**

HALO EFFECT see **EFFECT MODIFIERS (EPIDEMIOLOGY)**

HALOBACTERIACEAE

CHEMISTRY

2-Sulfotrehalose, a novel osmolyte in haloalkaliphilic archaea. Desmarais D, et al. **J Bacteriol** 1997 May; 179(10):3146-53

CLASSIFICATION

Haloarcula argentinensis sp. nov. and Haloarcula mukohataei sp. nov., two new extremely halophilic archaea collected in Argentina. Ihara K, et al. **Int J Syst Bacteriol** 1997 Jan; 47(1):73-7

Diversity of alkaliphilic halobacteria: proposals for transfer of Natronobacterium vacuolatum, Natronobacterium magadii, and Natronobacterium pharaonis to Halorubrum, Natrialba, and Natronomonas gen. nov., respectively, as Halorubrum vacuolatum comb. nov., Natrialba magadii comb. nov., and Natronomonas pharaonis comb. nov., respectively. Kamekura M, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):853-7

ENZYMOLOGY

Electron transfer proteins from the haloalkaliphilic archaeon Natronobacterium pharaonis: possible components of the respiratory chain include cytochrome bc and a terminal oxidase cytochrome ba3. Scharf B, et al. **Biochemistry** 1997 Apr 15;36(15):4471-9

Purification and analysis of an extremely halophilic beta-galactosidase from Haloferax alicantei. Holmes ML, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):276-86

NADP-glutamate dehydrogenase from the halophilic archaeon Haloferax mediterranei: enzyme purification, N-terminal sequence and stability. Ferrer J, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):59-63

Biochemical and serological evidence for an RNase E-like activity in halophilic Archaea. Franzetti B, et al. **J Bacteriol** 1997 Feb;179(4):1180-5

GENETICS

Haloarcula argentinensis sp. nov. and Haloarcula mukohataei sp. nov., two new extremely halophilic archaea collected in Argentina. Ihara K, et al. **Int J Syst Bacteriol** 1997 Jan; 47(1):73-7

Association of newly discovered IS elements with the dichloromethane utilization genes of methylotrophic bacteria. Schmid-Appert M, et al. **Microbiology** 1997 Aug; 143 (Pt 8):2557-67

METABOLISM

Osmotically induced response in representatives of halophilic prokaryotes: the bacterium Halomonas elongata and the archaeon Haloferax volcanii. Mojica FJ, et al. **J Bacteriol** 1997 Sep;179(17):5471-81

HALOBACTERIALES

GENETICS

Gas vesicle formation in halophilic Archaea. Pfeifer F, et al. **Arch Microbiol** 1997 May;167(5):259-68

Seryl-tRNA synthetase from the extreme halophile Haloarcula marismortui--isolation, characterization and sequencing of the gene and its expression in Escherichia coli. Taupin CM, et al. **Eur J Biochem** 1997 Jan 15; 243(1-2):141-50

Characterization and subunit structure of the ATP synthase of the halophilic archaeon Haloferax volcanii and organization of the ATP synthase genes. Steinert K, et al. **J Biol Chem** 1997 Mar 7;272(10):6261-9

Construction and analysis of a recombination-deficient (radA) mutant of Haloferax volcanii. Woods WG, et al. **Mol Microbiol** 1997 Feb;23(4):791-7

METABOLISM

Gas vesicle formation in halophilic Archaea. Pfeifer F, et al. **Arch Microbiol** 1997 May;167(5):259-68

Optimization of the production of a bacteriocin from Haloferax mediterranei Xia3. Platas G, et al. **Microbiologia** 1996 Mar;12(1):75-84

RADIATION EFFECTS

The repair of ultraviolet light-induced DNA damage in the halophilic archaebacteria, Halobacterium cutirubrum, Halobacterium halobium and Haloferax volcanii. McCready S. **Mutat Res** 1996 Sep 2;364(1):25-32

HALOBACTERIUM

CHEMISTRY

Identification of proteolipid from an extremely halophilic archaeon Halobacterium salinarum as an N,N'-dicyclohexyl-carbodiimide binding subunit of ATP synthase. Ihara K, et al. **Arch Biochem Biophys** 1997 May 15;341(2):267-72

Chromophore-anion interactions in halorhodopsin from Natronobacterium pharaonis probed by time-resolved resonance Raman spectroscopy. Gerscher S, et al. **Biochemistry** 1997 Sep 9;36(36):11012-20

Voltage-dependent absorbance change of carotenoids in halophilic archaebacteria. Seki SI, et al. **Biochim Biophys Acta** 1996 Oct 2;1284(1):79-85

Revised nucleotide sequence of an archaeal insertion element (ISH28) reveals a putative transposase gene. Woods W, et al. **Gene** 1996 Dec 5;182(1-2):219-20

Electron diffraction studies of light-induced conformational changes in the Leu-93 --> Ala bacteriorhodopsin mutant. Subramaniam S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1767-72

CLASSIFICATION

[A new description of the type strain of Halobacterium distributum] Zviagintseva IS, et al. **Mikrobiologiia** 1996 May-Jun;65(3):399-402 (Eng. Abstr.) **(Rus)**

GENETICS

The characterization of the nv-gvpACNOFGH gene cluster involved in gas vesicle formation in Natronobacterium vacuolatum. Mayr A, et al. **Arch Microbiol** 1997 Jul; 168(1):24-32

Properties of H. volcanii tRNA intron endonuclease reveal a relationship between the archaeal and eucaryal tRNA intron processing systems. Kleman-Leyer K, et al. **Cell** 1997 Jun 13;89(6):839-47

Genes encoding proteins homologous to halobacterial Gvps N, J, K, F & L are located downstream of gvpC in the cyanobacterium Anabaena flos-aquae. Kinsman R, et al. **DNA Seq** 1997;7(2):97-106

The sequences of heat shock protein 40 (DnaJ) homologs provide evidence for a close evolutionary relationship between the Deinococcus-thermus group and cyanobacteria. Bustard K, et al. **J Mol Evol** 1997 Aug; 45(2):193-205

Expression of beta 2-adrenoceptors in halobacteria. Söhlemann P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):150-60

Structure and heterologous expression of the gene encoding the cell surface glycoprotein from Haloarcula japonica strain TR-1. Wakai H, et al. **Nucleic Acids Symp Ser** 1995; (34):101-2

METABOLISM

Adaptive response of Haloferax mediterranei to low concentrations of NaCl (< 20%) in the growth medium. D'Souza SE, et al. **Arch Microbiol** 1997 Jul;168(1):68-71

The characterization of the nv-gvpACNOFGH gene cluster involved in gas vesicle formation in Natronobacterium vacuolatum. Mayr A, et al. **Arch Microbiol** 1997 Jul; 168(1):24-32

N-like intermediate in the photocycle of the acid purple form of bacteriorhodopsin. Tokaji Z, et al. **FEBS Lett** 1997 Mar 17;405(1):125-7

Dual roles of DMPC and CHAPS in the refolding of bacterial opsins in vitro. Sugiyama Y, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1143-9

PHYSIOLOGY

Molecular mechanism of photosignaling by archaeal sensory rhodopsins. Hoff WD, et al. **Annu Rev Biophys Biomol Struct** 1997;26:223-58 (174 ref.)

Photosensory transduction in Halobacterium salinarium: evidence for a non-linear network of cross-talking pathways. Lucia S, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):5-8

Mutation of a surface residue, lysine-129, reverses the order of proton release and uptake in bacteriorhodopsin; guanidine hydrochloride restores it. Govindjee R, et al. **Biophys J** 1997 Feb;72(2 Pt 1):886-98

His166 is critical for active-site proton transfer and phototaxis signaling by sensory rhodopsin I. Zhang XN, et al. **Biophys J** 1997 Sep;73(3):1516-23

Optical and electrical characterization of bacteriorhodopsin films. Dyukova T, et al. **Biosystems** 1997;41(2):91-8

Primary structure and functional analysis of the soluble transducer protein HtrXI in the archaeon Halobacterium salinarium. Brooun A, et al. **J Bacteriol** 1997 May; 179(9):2963-8

Two alternative models for spontaneous flagellar motor switching in Halobacterium salinarium. Naber H. **J Theor Biol** 1996 Aug 21;181(4):343-58

Constitutive signaling by the phototaxis receptor sensory rhodopsin II from disruption of its protonated Schiff base-Asp-73 interhelical salt bridge. Spudich EN, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4960-5

RADIATION EFFECTS

Effects of 60Co gamma-rays, ultraviolet light, and mitomycin C on Halobacterium salinarium and Thiobacillus intermedius. Shahmohammadi HR, et al. **J Radiat Res (Tokyo)** 1997 Mar;38(1):37-43

HALOBACTERIUM HALOBIUM

CHEMISTRY

Buffering capacity and membrane H+ conductance of Halobacterium halobium. Rius N, et al. **Microbiologia** 1996 Sep;12(3):405-10

Direct phase determination in protein electron crystallography: the pseudo-atom approximation. Dorset DL. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1791-4

ENZYMOLOGY

Cloning and characterization of the gene encoding Halobacterium halobium adenylate kinase. Song S, et al. **Gene** 1996 Oct 10;175(1-2):65-70

GENETICS

Organization and nucleotide sequences of ten ribosomal protein genes from the region equivalent to the S10 operon in the archaebacterium, Halobacterium halobium. Miyokawa T, et al. **Biochem Mol Biol Int** 1996 Aug; 39(6):1209-20

Cloning and characterization of the gene encoding Halobacterium halobium adenylate kinase. Song S, et al. **Gene** 1996 Oct 10;175(1-2):65-70

Mapping to nucleotide resolution of pseudouridine residues in large subunit ribosomal RNAs from representative eukaryotes, prokaryotes, archaebacteria, mitochondria and chloroplasts. Ofengand J, et al. **J Mol Biol** 1997 Feb 21; 266(2):246-68

HALOBACTERIUM HALOBIUM

METABOLISM

Binding of Fe3+ ions to halobacterial purple membranes as studied by Mössbauer spectroscopy. Maximychev AV, et al. **Membr Cell Biol** 1997;10(5):487–501

PHYSIOLOGY

Effects of sequential stimuli on Halobacterium salinarium photobehavior. Lucia S, et al. **Biophys J** 1996 Sep; 71(3):1554–62

RADIATION EFFECTS

Effects of sequential stimuli on Halobacterium salinarium photobehavior. Lucia S, et al. **Biophys J** 1996 Sep; 71(3):1554–62

HALOBACTERIUM MARISMORTUI see **HALOBACTERIUM**

HALOGENATED HYDROCARBONS see **HYDROCARBONS, HALOGENATED**

HALOGENS

Halogen lamp phototoxicity. Bloom E, et al. **Dermatology** 1996;193(3):207–11

ADVERSE EFFECTS

[Involvement of enhanced glutamate release in halogenated volatile anesthetic–induced excitation in mouse brain] Hirose T, et al. **Masui** 1997 Mar;46(3):338–43 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Determination of halogens, with special reference to iodine, in geological and biological samples using pyrohydrolysis for preparation and inductively coupled plasma mass spectrometry and ion chromatography for measurement. Schnetger B, et al. **Analyst** 1996 Nov;121(11):1627–31

Exhaled human breath measurement method for assessing exposure to halogenated volatile organic compounds. Pleil JD, et al. **Clin Chem** 1997 May;43(5):723–30

CHEMISTRY

Halogenated benzimidazole inhibitors of phosphorylation, in vitro and in vivo, of the surface acidic proteins of the yeast ribosomal 60S subunit by endogenous protein kinases CK–II and PK60S. Szyszka R, et al. **Acta Biochim Pol** 1996;43(2):389–96

Modeling reductive dehalogenation with quantum chemically derived descriptors. Rorije E, et al.
SAR QSAR Environ Res 1995;4(4):237–52

Electronic structure of bridging halogen atoms in metal halide dimers studied by the AM1 method and NQR spectroscopy. Poleshchuk OK, et al.
Solid State Nucl Magn Reson 1996 Jun;6(3):267–74

METABOLISM

Halide transport patterns of apical anion exchange in rabbit cortical collecting duct intercalated cells. Emmons C.
Am J Physiol 1996 Oct;271(4 Pt 2):F799–805

Biosynthesis of halogenated metabolites by bacteria. van Pée KH. **Annu Rev Microbiol** 1996;50:375–99 (120 ref.)

Reductive dehalogenation of halocarboxylic acids by the phototrophic genera Rhodospirillum and Rhodopseudomonas. McGrath JE, et al.
Appl Environ Microbiol 1997 Aug;63(8):3333–5

Microperoxidase/H2O2–mediated alkoxylating dehalogenation of halophenol derivatives in alcoholic media. Osman AM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4295–9

HALOPERIDOL

Nitric oxide synthesis inhibition attenuates haloperidol–induced supersensitivity. Pudiak CM, et al.
J Psychiatry Neurosci 1997 Jan;22(1):61–4

Effects of chronic methamphetamine on SCH23390– or haloperidol–induced catalepsy, and effects of coadministration of SCH23390 or haloperidol in mice. Mizuki Y, et al. **Pharmacol Biochem Behav** 1996 Feb; 53(2):437–40

ADMINISTRATION & DOSAGE

A double–blind comparison of trazodone and haloperidol for treatment of agitation in patients with dementia. Sultzer DL, et al. **Am J Geriatr Psychiatry** 1997 Winter;5(1):60–9

Evaluation of inpatient depot antipsychotic prescribing. Pabis DJ, et al. **Ann Pharmacother** 1996 Dec;30(12):1381–6

Intravenous sedation of involuntary psychiatric patients in New South Wales. Nielssen O, et al.
Aust N Z J Psychiatry 1997 Apr;31(2):273–8

Re: Rapid stabilization at home [letter; comment] Jeffries JJ. **Can J Psychiatry** 1997 May;42(4):427. Comment on: Can J Psychiatry 1996 Nov;41(9):605–6.

Rapid stabilization at home [letter] [see comments] Reding KM, et al. **Can J Psychiatry** 1996 Nov;41(9):605–6. Comment in: Can J Psychiatry 1997 May;42(4):427.

Effect of haloperidol dose on iodine–123–IBZM brain SPECT imaging in schizophrenic patients. Vallabhajosula S, et al. **J Nucl Med** 1997 Feb;38(2):203–7

Drug combinations in syringe drivers: the compatibility and stability of diamorphine with cyclizine and haloperidol. Grassby PF, et al. **Palliat Med** 1997 May;11(3):217–24

Haloperidol and reduced haloperidol plasma concentrations after a loading dose regimen with haloperidol decanoate. Jann MW, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Jan; 20(1):73–86

Hyperkinesias in a prepubertal boy with autistic disorder treated with haloperidol and valproic acid. Brasić JR, et al. **Psychol Rep** 1997 Feb;80(1):163–70

Effect of varying haloperidol plasma levels on negative symptoms in schizophrenia and schizoaffective disorder. Volavka J, et al. **Psychopharmacol Bull** 1996;32(1):75–9

Long–term haloperidol administration enhances and short–term administration attenuates the behavioral effects of cocaine in a place conditioning procedure. Kosten TA, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):304–12

Risperidone: a novel antipsychotic with many "atypical" properties? Stathis P, et al. **Psychopharmacology (Berl)** 1996 Oct;127(3):181–6

Chronic haloperidol treatment does not affect structure of attention in schizophrenia. Allen DN, et al.
Schizophr Res 1997 May 3;25(1):53–61

The Dose Reduction in Schizophrenia (DORIS) Study: a final report. Hirschowitz J, et al. **Schizophr Res** 1997 Jan 17;23(1):31–43

[Administration of high dose haloperidol in a patient refractory to treatment with traditional and atypical neuroleptics] Stip E, et al. **Encephale** 1996 Jul–Aug; 22(4):298–300 **(Fre)**

[Prolactinemia and predictability of therapeutic response of schizophrenic patients in acute decompensation] Vanelle JM, et al. **Encephale** 1996 Oct;22 Spec No 3:82–4 **(Fre)**

[Morphochemical changes in brain structures during hypofunction of the dopaminergic system and their correction with tuftsin] Gershtein LM, et al.
Biull Eksp Biol Med 1996 Oct;122(10):381–3 **(Rus)**

ADVERSE EFFECTS

Extrapyramidal symptoms from intravenous haloperidol in the treatment of delirium [letter] Blitzstein SM, et al.
Am J Psychiatry 1997 Oct;154(10):1474–5

Adverse interaction of tacrine and haloperidol [letter] Maany I. **Am J Psychiatry** 1996 Nov;153(11):1504

Blind, controlled, long–term study of the comparative incidence of treatment–emergent tardive dyskinesia with olanzapine or haloperidol. Tollefson GD, et al.
Am J Psychiatry 1997 Sep;154(9):1248–54

Rhabdomyolysis associated with haloperidol without evidence of NMS [letter] Marinella MA.
Ann Pharmacother 1997 Jul–Aug;31(7–8):927–8

Possible toxic encephalopathy following high–dose intravenous haloperidol. Maxa JL, et al.
Ann Pharmacother 1997 Jun;31(6):736–7

Torsade de pointes and low–dose oral haloperidol. Jackson T, et al. **Arch Intern Med** 1997 Sep 22;157(17):2013–5 (7 ref.)

Inhibition by memantine of the development of persistent oral dyskinesias induced by long–term haloperidol treatment of rats. Andreassen OA, et al.
Br J Pharmacol 1996 Oct;119(4):751–7

Antipsychotic drug–induced dysphoria [letter; comment] Lynch G, et al. **Br J Psychiatry** 1996 Oct;169(4):524. Comment on: Br J Psychiatry 1995 Oct;167(4):480–2. Comment on: Br J Psychiatry 1996 May;168(5):655–6.

Urinary retention with fluoxetine–haloperidol combination in a young patient [letter] Benazzi F. **Can J Psychiatry** 1996 Nov;41(9):606–7

Severe extrapyramidal side effects when discontinuing clozapine and starting haloperidol [letter] Bobba R.
Can J Psychiatry 1997 Jun;42(5):530

Movement disorders associated with withdrawal from high–dose intravenous haloperidol therapy in delirious ICU patients. Riker RR, et al. **Chest** 1997 Jun;111(6):1778–81 (29 ref.)

Significantly higher plasma haloperidol level during cotreatment with carbamazepine may herald cardiac change [see comments] Iwahashi K.
Clin Neuropharmacol 1996 Jun;19(3):267–70. Comment in: Clin Neuropharmacol 1997 Apr;20(2):179.

Neuroleptic–related dyskinesias in autistic children: a prospective, longitudinal study. Campbell M, et al.
J Am Acad Child Adolesc Psychiatry 1997 Jun;36(6):835–43

Lithium and neuroleptics in combination: is there enhancement of neurotoxicity leading to permanent sequelae? Goldman SA. **J Clin Pharmacol** 1996 Oct; 36(10):951–62

The dose–response characteristics of rat oral dyskinesias with chronic haloperidol or clozapine administration. Gao XM, et al. **J Neural Transm** 1997;104(1):97–104

Quality of life and response of negative symptoms in schizophrenia to haloperidol and the atypical antipsychotic remoxipride. The Canadian Remoxipride Group. Awad AG, et al. **J Psychiatry Neurosci** 1997 Jul;22(4):244–8

Morphochemical changes in brain structures in the course of chronic haloperidol treatment and the correction of these changes with tuftsin. Gershtein LM, et al.
Mol Chem Neuropathol 1997 Apr;30(3):213–22

Imaging of dopamine receptors with [123I]iodobenzamide single–photon emission–computed tomography in neuroleptic malignant syndrome. Jauss M, et al.
Mov Disord 1996 Nov;11(6):726–8

Haloperidol administration in humans lowers plasma nerve growth factor level: evidence that sedation induces opposite effects to arousal. Aloe L, et al.
Neuropsychobiology 1997;36(2):65–8

Biperiden and haloperidol plasma levels and extrapyramidal side effects in schizophrenic patients. Meszaros K, et al.
Neuropsychobiology 1997;36(2):69–72

Adverse effects of risperidone on eye movement activity: a comparison of risperidone and haloperidol in antipsychotic–naive schizophrenic patients. Sweeney JA, et al. **Neuropsychopharmacology** 1997 Mar;16(3):217–28

Urinary retention with venlafaxine–haloperidol combination [letter] Benazzi F. **Pharmacopsychiatry** 1997 Jan;30(1):27

Conduction disturbances associated with administration of butyrophenone antipsychotics in the critically ill: a review of the literature. Lawrence KR, et al. **Pharmacotherapy** 1997 May–Jun;17(3):531–7 (45 ref.)

Blood levels of reduced haloperidol versus clinical efficacy and extrapyramidal side effects of haloperidol. Lane HY, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb;21(2):299–311

Symptom change and extrapyramidal side effects during acute haloperidol treatment in chronic geriatric schizophrenics. Weisbard JJ, et al.
Psychopharmacol Bull 1997;33(1):119–22

[Difference in prolaction response of schizophrenic patients to equivalent doses of haloperidol, remoxipride and sulpiride] Liu KL, et al.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1996 Dec; 12(12):685–90 (Eng. Abstr.) **(Chi)**

[Cytolytic hepatitis during treatment with phenothiazines: apropos of a case] Mesure G, et al. **Encephale** 1996 Sep–Oct;22(5):388–90 (Eng. Abstr.) **(Fre)**

[Depressive stupor––malignant neuroleptic syndrome––serotonin syndrome. A case contribution to a difficult differential diagnosis] König F, et al.
Nervenarzt 1996 May;67(5):407–12 (Eng. Abstr.) **(Ger)**

[A case of malignant neuroleptic syndrome. Case report] Martius P, et al. **Nervenarzt** 1996 May;67(5):418–21 (Eng. Abstr.) **(Ger)**

[A case of malignant syndrome triggered by the use of haloperidol and chrorpromazine] Konishi K, et al.
Masui 1997 Apr;46(4):547–8 (Eng. Abstr.) **(Jpn)**

[Acute recurrent dystonia secondary to neuroleptic suppression (letter)] Modrego Pardo P, et al.
Rev Clin Esp 1997 Mar;197(3):211–2 **(Spa)**

ANALOGS & DERIVATIVES

Effect of the haloperidol tetrahydropyridine metabolite 4–(4–chlorophenyl)–1–[4–(4–fluorophenyl)–4–oxobutyl]–1,2,3,6– tetrahydropyridine on dopamine receptor and transporter binding. A nonhuman primate 123I–iodobenzamide and 2 beta–carbomethoxy–3 beta–(4–iodophenyl)tropane single photon emission computed tomographic study. Oliver DW, et al.
Arzneimittelforschung 1997 Jun;47(6):692–9

D2–dopamine–receptor occupancy during treatment with haloperidol decanoate. Scherer J, et al.
Eur Arch Psychiatry Clin Neurosci 1997;247(2):104–6

Interaction between carbamazepine and bromperidol. Otani K, et al. **Eur J Clin Pharmacol** 1997;52(3):219–22

Morphological changes in met(5)–enkephalin–immunoreactive synaptic boutons in the rat neostriatum after haloperidol decanoate treatment. Mijnster MJ, et al. **Eur J Neurosci** 1996 Apr;8(4):716–26

Determination of haloperidol and its reduced metabolite in human plasma by liquid chromatography–mass spectrometry with electrospray ionization. Hoja H, et al.
J Chromatogr B Biomed Appl 1997 Jan 24;688(2):275–80

Negative symptoms in nondeficit syndrome respond to neuroleptic treatment with changes in plasma homovanillic acid concentrations. Suzuki E, et al.
J Psychiatry Neurosci 1996 May;21(3):167–71

Two pyridinium metabolites of haloperidol are present in the brain of patients at post–mortem. Eyles DW, et al.
Life Sci 1997;60(8):529–34

Metabolic defects caused by treatment with the tetrahydropyridine analog of haloperidol (HPTP), in baboons. Mienie LJ, et al. **Life Sci** 1997;61(3):265–72

Plasma haloperidol and reduced haloperidol concentrations in a geriatric population. Chang WH, et al.
Neuropsychobiology 1996;33(1):12–6

Effect of a pyridinium metabolite derived from haloperidol on the activities of striatal tyrosine hydroxylase in freely moving rats. Igarashi K, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):183–6

Possible interaction between cisapride and bromperidol. Ishida M, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1997 Jan; 21(1):235–8

Haloperidol and reduced haloperidol plasma concentrations after a loading dose regimen with haloperidol decanoate. Jann MW, et al.
Prog Neuropsychopharmacol Biol Psychiatry 1996 Jan; 20(1):73–86

No interaction between desipramine and bromperidol. Suzuki A, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct;20(7):1265–71

Low– and standard–dose depot haloperidol combined with targeted oral neuroleptics. Huttunen MO, et al.

Psychiatr Serv 1996 Jan;47(1):83–5

Formation of pyridinium species of haloperidol in human liver and brain. Eyles DW, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):214–9

PPBP [4–phenyl–1–(4–phenylbutyl) piperidine] decreases brain injury after transient focal ischemia in rats. Takahashi H, et al. **Stroke** 1996 Nov;27(11):2120–3

No effect of the anticholinergic drugs trihexyphenidyl and biperiden on the plasma concentrations of bromperidol and its reduced metabolite. Otani K, et al. **Ther Drug Monit** 1997 Apr;19(2):165–8

Increased plasma concentrations of bromperidol and its reduced metabolite with levomepromazine, but not with thioridazine. Suzuki A, et al. **Ther Drug Monit** 1997 Jun; 19(3):261–4

[Accidental intravenous administration of haloperidol decanoate] Heinz P. **Psychiatr Prax** 1996 Jan;23(1):42 **(Ger)**

[Bromperidol decanoate in the residual phase of schizophrenia] Smeraldi E, et al. **Minerva Psichiatr** 1996 Mar;37(1):39–44 (Eng. Abstr.) **(Ita)**

[Rhabdomyolysis and acute renal failure caused by haloperidol–decanoate (neuroleptic malignant syndrome)] Lazzarin M, et al. **Recenti Prog Med** 1996 Sep;87(9):422–4 (Eng. Abstr.) **(Ita)**

ANTAGONISTS & INHIBITORS

The competitive NMDA receptor antagonist SDZ 220–581 reverses haloperidol–induced catalepsy in rats. McAllister KH. **Eur J Pharmacol** 1996 Oct 31;314(3):307–11

BLOOD

The relationship between plasma haloperidol concentrations and clinical results [letter; comment] Palao DJ, et al. **Arch Gen Psychiatry** 1996 Dec;53(12):1167–9. Comment on: Arch Gen Psychiatry 1995 Oct;52(10):837–45.

Neuroleptic monitoring: relation between antipsychotic efficiency and radioreceptor assay of serum haloperidol. Odou P, et al. **Eur J Clin Pharmacol** 1996;50(5):357–63

Selective determination of haloperidol in human serum: surface ionization mass spectrometry and gas chromatography with surface ionization detection. Fujii T, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13; 687(2):395–403

Determination of haloperidol and its reduced metabolite in human plasma by liquid chromatography–mass spectrometry with electrospray ionization. Hoja H, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):275–80

Haloperidol blood levels and clinical outcome: a meta–analysis of studies relevant to testing the therapeutic window hypothesis. de Oliveira IR, et al. **J Clin Pharm Ther** 1996 Aug;21(4):229–36

Biperiden and haloperidol plasma levels and extrapyramidal side effects in schizophrenic patients. Meszaros K, et al. **Neuropsychobiology** 1997;36(2):69–72

Blood levels of reduced haloperidol versus clinical efficacy and extrapyramidal side effects of haloperidol. Lane HY, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb;21(2):299–311

Test–retest reliability of central [11C]raclopride binding at high D2 receptor occupancy. A PET study in haloperidol–treated patients. Nyberg S, et al. **Psychiatry Res** 1996 Oct 7;67(3):163–71

Effect of varying haloperidol plasma levels on negative symptoms in schizophrenia and schizoaffective disorder. Volavka J, et al. **Psychopharmacol Bull** 1996;32(1):75–9

The relationship between D2 receptor occupancy and plasma levels on low dose oral haloperidol: a PET study. Kapur S, et al. **Psychopharmacology (Berl)** 1997 May;131(2):148–52

ECONOMICS

Economic evaluation of zuclopenthixol acetate compared with injectable haloperidol in schizophrenic patients with acute psychosis. Laurier C, et al. **Clin Ther** 1997 Mar–Apr; 19(2):316–29

Economic and health state utility determinations for schizophrenic patients treated with risperidone or haloperidol. Chouinard G, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):298–307

Assessing a drug's cost–benefits [letter; comment] Raleigh F. **Psychiatr Serv** 1996 Aug;47(8):877–8. Comment on: Psychiatr Serv 1996 Mar;47(3):309–10.

METABOLISM

Hyperactive behavioural effects induced by intranigral infusion of a pyridinium metabolite of haloperidol in rats. Fang J. **Can J Physiol Pharmacol** 1996 Dec;74(12):1359–61

Studies on the conversion of haloperidol and its tetrahydropyridine dehydration product to potentially neurotoxic pyridinium metabolites by human liver microsomes. Usuki E, et al. **Chem Res Toxicol** 1996 Jun; 9(4):800–6

Determination of 4–(4–chlorophenyl)–4–hydroxypiperidine, a metabolite of haloperidol, by gas chromatography with electron–capture detection. Fang J, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):283–8

Two pyridinium metabolites of haloperidol are present in the brain of patients at post–mortem. Eyles DW, et al. **Life Sci** 1997;60(8):529–34

Haloperidol and reduced haloperidol plasma concentrations after a loading dose regimen with haloperidol decanoate. Jann MW, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Jan; 20(1):73–86

Formation of pyridinium species of haloperidol in human liver and brain. Eyles DW, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):214–9

PHARMACOKINETICS

A two–phase, double–blind randomized study of three haloperidol plasma levels for acute psychosis with reassignment of initial non–responders. Janicak PG, et al. **Acta Psychiatr Scand** 1997 Apr;95(4):343–50

SPECT studies of D2 occupancy in low–dose haloperidol treatment [letter; comment] Hirschowitz J, et al. **Am J Psychiatry** 1997 May;154(5):715–6. Comment on: Am J Psychiatry 1996 Jul;153(7):948–50.

Effect of d–limonene, alpha–pinene and cineole on in vitro transdermal human skin penetration of chlorpromazine and haloperidol. Almirall M, et al. **Arzneimittelforschung** 1996 Jul;46(7):676–80

Involvement of CYP3A4 and CYP2D6 in the metabolism of haloperidol. Fang J, et al. **Cell Mol Neurobiol** 1997 Apr; 17(2):227–33

Lack of pharmacokinetic interaction between buspirone and haloperidol in patients with schizophrenia. Huang HF, et al. **J Clin Pharmacol** 1996 Oct;36(10):963–9

Investigation of pharmacokinetic and pharmacodynamic interactions after coadministration of nefazodone and haloperidol. Barbhaiya RH, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):26–34

Prediction of haloperidol steady–state levels in plasma after a single test dose. Javaid JI, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):45–50

Effect of rifampin on the plasma concentration and the clinical effect of haloperidol concomitantly administered to schizophrenic patients. Kim YH, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):247–52

Haloperidol and its tetrahydropyridine derivative (HPTP) are metabolized to potentially neurotoxic pyridinium species in the baboon. Avent KM, et al. **Life Sci** 1996; 59(17):1473–82

Plasma haloperidol and reduced haloperidol concentrations in a geriatric population. Chang WH, et al. **Neuropsychobiology** 1996;33(1):12–6

Plasma alpha–one acid glycoprotein and haloperidol concentrations in schizophrenic patients. Jann MW, et al. **Neuropsychobiology** 1997;36(1):32–6

[18F]haloperidol binding in baboon brain in vivo. Yousef KA, et al. **Nucl Med Biol** 1996 Jan;23(1):47–52

Interaction between fluoxetine and haloperidol: pharmacokinetic and clinical implications. Avenoso A, et al. **Pharmacol Res** 1997 Apr;35(4):335–9

Dextromethorphan phenotyping and haloperidol disposition in schizophrenic patients. Lane HY, et al. **Psychiatry Res** 1997 Mar 24;69(2–3):105–11

PHARMACOLOGY

Carotid body dopamine content and release by short–term hypoxia: effect of haloperidol and alpha methyl paratyrosine. Basson H, et al. **Arch Physiol Biochem** 1997 Feb;105(1):3–9

The differential haloperidol effect on the immobility response elicited by clamping, grasping, bandaging and inversion in guinea pig, hamster and rat. De la Cruz Lopez F, et al. **Behav Brain Res** 1996 Aug;78(2):195–9

Effects of clozapine and haloperidol on baseline levels of vacuous jaw movements in aged rats. Steinpreis RE, et al. **Behav Brain Res** 1997 Jul;86(2):165–9

Inhibition of the expression of ornithine decarboxylase by haloperidol in difluoromethylornithine–resistant leukemia cells [published erratum appears in Biochem Pharmacol 1997 Feb 7;53(3):437] Flamigni F, et al. **Biochem Pharmacol** 1996 Nov 8;52(9):1393–7

Effect of haloperidol on the sarcoplasmic reticulum Ca–dependent adenosine triphosphatase. Takara D, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1–2):57–65

Antipsychotic regulation of hippocampal dopamine receptor messenger RNA expression. Ritter LM, et al. **Biol Psychiatry** 1997 Aug 1;42(3):155–64

The inhibitory effect of the antipsychotic drug haloperidol on HERG potassium channels expressed in Xenopus oocytes. Suessbrich H, et al. **Br J Pharmacol** 1997 Mar; 120(5):968–74

Haloperidol affects guinea pig chewing burst durations. Gerstner GE. **Brain Behav Evol** 1996;48(2):94–102

Single restraint stress sensitizes acute chewing movements induced by haloperidol, but not if the 5–HT1A agonist 8–OH–DPAT is given prior to stress. Fdez. Espejo E, et al. **Brain Res** 1997 May 2;755(2):351–5

Haloperidol and MK–801 block increases in striatal calmodulin resulting from repeated amphetamine treatment. Gnegy ME, et al. **Brain Res** 1996 Sep 23; 734(1–2):35–42

Upregulation of angiotensin II AT1 receptors in the mouse nucleus accumbens by chronic haloperidol treatment. Jenkins TA, et al. **Brain Res** 1997 Feb 14;748(1–2):137–42

Bcl–2 prevents hippocampal cell death induced by the neuroleptic drug haloperidol. Lezoualc'h F, et al. **Brain Res** 1996 Oct 28;738(1):176–9

Effect of long–term haloperidol treatment on striatal neuropeptides: relation to stereotyped behavior. Marin C, et al. **Brain Res** 1996 Aug 26;731(1–2):57–62

Differential effects of haloperidol and two anxiolytic drugs, buspirone and lesopitron, on c–Fos expression in the rat striatum and nucleus accumbens. Palacios G, et al. **Brain Res** 1996 Dec 2;742(1–2):141–8

Effects of haloperidol on the activity and membrane physiology of substantia nigra dopamine neurons recorded in vitro. Pucak ML, et al. **Brain Res** 1996 Mar 25; 713(1–2):44–52

Chronic haloperidol–induced changes in regional dopamine release and metabolism and neurotensin content in rats. See RE, et al. **Brain Res** 1995 Dec 18;704(2):202–9

Effect of dopaminergic drugs on processing and degradative neuropeptidase mRNA in rat frontal cortex and caudate–putamen. Waters SM, et al. **Brain Res** 1997 Apr 18;754(1–2):28–34

Comparison of neurotensin responses to MDL 100,907, a selective 5HT2A antagonist, with clozapine and haloperidol. Hanson GR, et al. **Brain Res Bull** 1997; 42(3):211–9

Differential effects of clozapine and haloperidol on dopamine receptor mRNA expression in rat striatum and cortex. Damask SP, et al. **Brain Res Mol Brain Res** 1996 Sep 5; 41(1–2):241–9

Clozapine and haloperidol differentially affect AMPA and kainate receptor subunit mRNA levels in rat cortex and striatum. Healy DJ, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):331–8

Haloperidol regulates neurotensin gene expression in striatum of c–fos–deficient mice. Shearman LP, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):275–85

Long–term treatment with the tetrahydropyridine analog (HPTP) of haloperidol influences dopamine ligand binding in baboon brain. An [123I]iodobenzamide (IBZM) SPECT study. Van der Schyf CJ, et al. **Brain Res Mol Brain Res** 1996 Dec 31;43(1–2):251–8

Temporal dissociation of neurotensin/neuromedin N mRNA expression in topographically separate subsets of rat striatal neurons following administration of haloperidol. Zahm DS, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):71–8

Effects of haloperidol on behavioral responses induced by electrical stimulation of medial prefrontal cortex. Nakamura–Palacios EM. **Braz J Med Biol Res** 1996 Oct; 29(10):1349–53

Tyrosine hydroxylase–negative, dopaminergic neurons are targets for transmitter–depleting action of haloperidol in the snail brain. Sakharov DA, et al. **Cell Mol Neurobiol** 1996 Aug;16(4):451–61

Microinjections of SCH23390 and haloperidol into striatal subregions differentially affect water intake in the rat. Liao RM, et al. **Chin J Physiol** 1996;39(2):117–21

7–OH–DPAT differentially reverses clozapine– and haloperidol–induced increases in Fos–like immunoreactivity in the rodent forebrain. Vahid–Ansari F, et al. **Eur J Neurosci** 1996 Dec;8(12):2605–11

Effects of risperidone, clozapine and haloperidol on extracellular recordings of substantia nigra reticulata neurons of the rat brain. Bruggeman R, et al. **Eur J Pharmacol** 1997 Apr 11;324(1):49–56

Evidence that the NH2–terminus of substance P modulates N–methyl–D–aspartate–induced activity by an action involving sigma receptors. Hornfeldt CS, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):15–22

Contrasting effects of SM–9018, a potential atypical antipsychotic, and haloperidol on c–fos mRNA expression in the rat striatum. Ishibashi T, et al. **Eur J Pharmacol** 1996 May 15;303(3):247–51

Effects of serotonergic agents on the up–regulation of dopamine D2 receptors induced by haloperidol in rat striatum. Ishikane T, et al. **Eur J Pharmacol** 1997 Feb 26; 321(2):163–9

Different effects of chronic administration of haloperidol and pimozide on dopamine metabolism in the rat brain. Karolewicz B, et al. **Eur J Pharmacol** 1996 Oct 17; 313(3):181–6

Subchronic haloperidol administration decreases aminopeptidase N activity and [Met5]enkephalin metabolism in rat striatum and cortex. Konkoy CS, et al. **Eur J Pharmacol** 1996 Feb 15;297(1–2):47–51

Effect of haloperidol on the behavioral stimulation by N–cyanomethylmethamphetamine, a main product of smoking methamphetamine mixed with tobacco. Kuribara H, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):1–6

Dopaminergic basis for the facilitation of brain stimulation reward by the NMDA receptor antagonist, MK–801. Olds ME. **Eur J Pharmacol** 1996 Jun 13;306(1–3):23–32

Lack of cross–tolerance between haloperidol and clozapine towards Fos–protein induction in rat forebrain regions. Sebens JB, et al. **Eur J Pharmacol** 1996 Nov 21; 315(3):269–75

Chronic treatment with eltoprazine does not lead to tolerance in its anti–aggressive action, in contrast to haloperidol. Mos J, et al. **Eur Neuropsychopharmacol** 1996 Mar;6(1):1–7

The comparative effects of haloperidol, (–)–sulpiride, and SCH23390 on c–fos and c–jun mRNA expressions, and AP–1 DNA binding activity. Ozaki T, et al. **Eur Neuropsychopharmacol** 1997 Aug;7(3):181–7

Haloperidol–increased muscle tone in rats as a model of parkinsonian rigidity. Lorenc–Koci E, et al. **Exp Brain Res** 1996 May;109(2):268–76

Haloperidol decreases hyperkinetic paw treading induced by

globus pallidus lesions in the rat. Cromwell HC, et al. **Exp Neurol** 1997 May;145(1):288–94

The effect of chronic haloperidol treatment on dendritic spines in the rat striatum. Kelley JJ, et al. **Exp Neurol** 1997 Aug;146(2):471–8

Peptide YY inhibition of prostaglandin-induced intestinal secretion is haloperidol-sensitive in humans. Rozé C, et al. **Gastroenterology** 1997 May;112(5):1520–8

Effects of haloperidol and chlorpromazine on smooth muscle contractility, platelet aggregation and neuronal calcium current. Prokopenko RA, et al. **Gen Physiol Biophys** 1995 Aug;14(4):349–57

Haloperidol and spiperone potentiate murine splenic B cell proliferation. Liu Y, et al. **Immunopharmacology** 1996 Sep; 34(2–3):147–59

Effect of haloperidol, a dopamine antagonist on aqueous humour dynamics in experimental glaucoma. Khosla P, et al. **Indian J Exp Biol** 1996 Nov;34(11):1152–4

Evaluation of haloperidol, a dopamine antagonist, on intraocular pressure in experimental glaucoma. Khosla P, et al. **Indian J Exp Biol** 1996 Jun;34(6):580–1

The effect of chlorpromazine and haloperidol on DNA transcription. Barak Y, et al. **Int Clin Psychopharmacol** 1996 Sep;11(3):193–7

Positron emission tomography studies on D2 dopamine receptor occupancy and plasma antipsychotic drug levels in man. Nyberg S, et al. **Int Clin Psychopharmacol** 1995 Sep;10 Suppl 3:81–5

Effect of ethanol, haloperidol, and lorazepam on cardiac conduction and contraction. Medlin RP Jr, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):792–8

Investigation of pharmacokinetic and pharmacodynamic interactions after coadministration of nefazodone and haloperidol. Barbhaiya RH, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):26–34

Pulsatile secretion of alpha-MSH and the differential effects of dexamethasone and haloperidol on the secretion of alpha-MSH and ACTH in dogs. Kooistra HS, et al. **J Endocrinol** 1997 Jan;152(1):113–21

Changes in EEG order in neuroleptically treated normal volunteers during a voluntary movement task. Diekmann V, et al. **J Neural Transm** 1996;103(8–9):1127–39

Inhibition of beta-amyloid formation by haloperidol: a possible mechanism for reduced frequency of Alzheimer's disease pathology in schizophrenia. Higaki J, et al. **J Neurochem** 1997 Jan;68(1):333–6

Effects of subchronic clozapine and haloperidol on striatal glutamatergic synapses. Meshul CK, et al. **J Neurochem** 1996 Nov;67(5):1965–73

Behavioural subsensitivity induced by long-term administration of a low dose of haloperidol to rats. Frussa-Filho R, et al. **J Pharm Pharmacol** 1997 Apr; 49(4):412–5

Characterization of haloperidol and trifluperidol as subtype-selective N-methyl-D-aspartate (NMDA) receptor antagonists using [3H]TCP and [3H]ifenprodil binding in rat brain membranes. Coughenour LL, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):584–92

Genetics, neuroleptic response and the organization of cholinergic neurons in the mouse striatum. Dains K, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1430–8

Dopamine receptor subtypes: differential regulation after 8 months treatment with antipsychotic drugs. Florijn WJ, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):561–9

Inhibition of N-methyl-D-aspartate receptors by haloperidol: developmental and pharmacological characterization in native and recombinant receptors. Lynch DR, et al. **J Pharmacol Exp Ther** 1996 Oct; 279(1):154–61

Effect of haloperidol on nicotine-induced enhancement of vigilance in human subjects. Lee C, et al. **J Psychopharmacol (Oxf)** 1997;11(3):253–7

Intravenous administration of haloperidol to healthy volunteers: lack of subjective effects but clear objective effects. Williams JH, et al. **J Psychopharmacol (Oxf)** 1997; 11(3):247–52

Dopamine and the regulation of cell proliferation in gerbil (Meriones unguiculatus) pyloric mucosa. Wegner IC, et al. **Life Sci** 1997;60(22):2005–11

Subtype-selective inhibition of N-methyl-D-aspartate receptors by haloperidol. Ilyin VI, et al. **Mol Pharmacol** 1996 Dec;50(6):1541–50

Chronic haloperidol treatment differentially affects the expression of synaptic and neuronal plasticity-associated genes. Eastwood SL, et al. **Mol Psychiatry** 1997 Jul; 2(4):322–9

Differential regulation of hippocampal AMPA and kainate receptor subunit expression by haloperidol and clozapine [see comments] Meador-Woodruff JH, et al. **Mol Psychiatry** 1996 Mar;1(1):41–53. Comment in: Mol Psychiatry 1996 Mar;1(1):16–7.

Chronic clozapine versus chronic haloperidol treatment: differential effects on electrically evoked dopamine efflux in the rat caudate putamen, but not in the nucleus accumbens. Feasey-Truger KJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):725–30

Further evidence for the subsensitivity of striatal AMPA receptors, induced by chronic haloperidol administration: an autoradiographic study. Ossowska K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep; 354(3):384–8

Effects of chronic neuroleptic treatments on dopamine D1 and D2 receptors: homogenate binding and autoradiographic studies. Huang N, et al. **Neurochem Int** 1997 Mar;30(3):277–90

Effect of antipsychotic drugs on the gene expression of NMDA receptor subunits in rats. Toyoda H, et al. **Neurochem Res** 1997 Mar;22(3):249–52

Long-term treatment with chlorpromazine and haloperidol but not with sulpiride and clozapine markedly elevates neuropeptide Y-like immunoreactivity in the rat hypothalamus. Obuchowicz E. **Neuropeptides** 1996 Oct; 30(5):471–8

Effects of chronic treatment with haloperidol on [3H]PK 11195 binding in the rat brain and peripheral tissues. Kurumaji A, et al. **Neuropharmacology** 1996;35(8):1075–9

Chronic treatment with antipsychotic drugs does not alter G protein alpha or beta subunit levels in rat brain. Meller E, et al. **Neuropharmacology** 1996;35(12):1785–91

Haloperidol inhibits neuronal nitric oxide synthase activity by preventing electron transfer. Iwahashi K, et al. **Neuropsychobiology** 1996;33(2):76–9

The effects of acute and chronic haloperidol treatment on dopamine release mediated by the medial forebrain bundle in the striatum and nucleus accumbens. Egan MF, et al. **Neuropsychopharmacology** 1996 Mar;14(3):211–23

Effects of chronic haloperidol on stress- and stimulation-induced increases in dopamine release: tests of the depolarization block hypothesis. Klitenick MA, et al. **Neuropsychopharmacology** 1996 Oct;15(4):424–8

Inverse agonism at dopamine D2 receptors. Haloperidol-induced prolactin release from GH4C1 cells transfected with the human D2 receptor is antagonized by R(–)-n-propylnorapomorphine, raclopride, and phenoxybenzamine. Nilsson CL, et al. **Neuropsychopharmacology** 1996 Jul;15(1):53–61

The effect of streptozotocin-induced diabetes on dopamine2, serotonin1A and serotonin2A receptors in the rat brain. Sumiyoshi T, et al. **Neuropsychopharmacology** 1997 Mar; 16(3):183–90

Haloperidol- and clozapine-induced enhancement of latent inhibition with extended conditioning: implications for the mechanism of action of neuroleptic drugs. Weiner I, et al. **Neuropsychopharmacology** 1997 Jan;16(1):42–50

O2-sensitive K+ current in undifferentiated and NGF-treated PC12 cell variants. Kawai Y, et al. **Neuroreport** 1997 Apr 14;8(6):1369–74

Acute haloperidol attenuates the hypomotility induced with 7-hydroxy-DPAT. Lynch MR, et al. **Neuroreport** 1997 Feb 10;8(3):611–5

Injection of a GABA antagonist into the mesopontine reticular formation abolishes haloperidol-induced catalepsy in rats. Miwa H, et al. **Neuroreport** 1996 Nov 4; 7(15–17):2475–8

The effect of chronic haloperidol treatment on glutamate receptor subunit (GluR1, GluR2, KA1, KA2, NR1) mRNAs and glutamate binding protein mRNA in rat forebrain. Eastwood SL, et al. **Neurosci Lett** 1996 Jul 19; 212(3):163–6

Prolonged treatment with haloperidol and clozapine in the rat: differential effects on spontaneous and theophylline-induced motor activity. Ogren SO, et al. **Neurosci Lett** 1997 Aug 22;232(1):21–4

Regionally specific effects of haloperidol and clozapine on dopamine reuptake in the striatum. Rothblat DS, et al. **Neurosci Lett** 1997 Jun 6;228(2):119–22

Effects of ritanserin on haloperidol-induced dopamine (D2) receptor up-regulation in the rat. Szczepanik AM, et al. **Neurosci Lett** 1997 Aug 8;231(2):91–4

Chronic haloperidol treatment decreases preproenkephalin mRNA in the anterior pituitary: a study by solution-hybridization-RNase protection assay. Tang F, et al. **Neurosci Lett** 1996 Dec 27;221(1):66–8

Morphologically distinct subpopulations of neurotensin-immunoreactive striatal neurons observed in rat following dopamine depletions and D2 receptor blockade project to the globus pallidus. Brog JS, et al. **Neuroscience** 1996 Oct;74(3):805–12

The effects of clozapine and haloperidol on serotonin-1A, -2A and -2C receptor gene expression and serotonin metabolism in the rat forebrain. Burnet PW, et al. **Neuroscience** 1996 Jul;73(2):531–40

Dopamine-glutamate interactions in the striatum: behaviourally relevant modification of excitotoxicity by dopamine receptor-mediated mechanisms. Garside S, et al. **Neuroscience** 1996 Dec;75(4):1065–74

Effects of haloperidol and cocaine pretreatments on brain distribution and kinetics of [11C]methamphetamine in methamphetamine sensitized dog: application of PET to drug pharmacokinetic study. Nakamura H, et al. **Nucl Med Biol** 1997 Feb;24(2):165–9

EEDQ reduces the striatal neurotensin mRNA response to haloperidol. Adams MR, et al. **Peptides** 1997;18(4):527–35

Cocaine-induced behavioral sensitization: effects of haloperidol and SCH 23390 treatments. Mattingly BA, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):481–6

Interaction of morphine and haloperidol on agonistic and motor behaviors of male mice. Rodríguez-Arias M, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):153–8

Increased S(–)-apomorphine-induced vacuous chewing and attenuated effect of chronic haloperidol treatment in streptozotocin-induced diabetic rat. Sumiyoshi T, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):19–22

Effects of dopamine antagonists on changes in spontaneous EEG and locomotor activity in ketamine-treated rats. Yamamoto M, et al. **Pharmacol Biochem Behav** 1997 May–Jun;57(1–2):361–5

Haloperidol treatment decreases nerve growth factor levels in the hypothalamus of adult mice. Alleva E, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Apr; 20(3):483–9

Blood levels of reduced haloperidol versus clinical efficacy and extrapyramidal side effects of haloperidol. Lane HY, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb;21(2):299–311

Typical and atypical neuroleptic drugs decrease platelet 3H-dopamine uptake in the rat. Sundram S, et al. **Psychiatry Res** 1996 Jun 1;62(3):259–63

The effects of cyproheptadine on vacuous jaw movements in rats: a comparison with haloperidol and clozapine. Steinpreis RE, et al. **Psychopharmacol Bull** 1996; 32(1):129–34

Rebound responding following a single dose of drug using an amphetamine-vehicle-haloperidol drug discrimination. Caul WF, et al. **Psychopharmacology (Berl)** 1996 Dec; 128(3):274–9

Effects of haloperidol in a response-reinstatement model of heroin relapse. Ettenberg A, et al. **Psychopharmacology (Berl)** 1996 Apr;124(3):205–10

The relationship between D2 receptor occupancy and plasma levels on low dose oral haloperidol: a PET study. Kapur S, et al. **Psychopharmacology (Berl)** 1997 May;131(2):148–52

Does haloperidol block methylphenidate? Motivation or attention? Levy F, et al. **Psychopharmacology (Berl)** 1996 Jul;126(1):70–4

8-OH-DPAT, a 5-HT1A agonist and ritanserin, a 5-HT2A/C antagonist, reverse haloperidol-induced catalepsy in rats independently of striatal dopamine release. Lucas G, et al. **Psychopharmacology (Berl)** 1997 May; 131(1):57–63

Effects of haloperidol and amisulpride on motor and cognitive skill learning in healthy volunteers. Peretti CS, et al. **Psychopharmacology (Berl)** 1997 Jun;131(4):329–38

Involvement of glutamatergic and dopaminergic systems in the reactivity of mice to spatial and non-spatial change. Roullet P, et al. **Psychopharmacology (Berl)** 1996 Jul; 126(1):55–61

Different behavioral effects of haloperidol, clozapine and thioridazine in a concurrent lever pressing and feeding procedure. Salamone JD, et al. **Psychopharmacology (Berl)** 1996 May;125(2):105–12

Repeated REM sleep deprivation after chronic haloperidol administration in the rat. Salin-Pascual RJ, et al. **Psychopharmacology (Berl)** 1997 Jun;131(3):216–9

Effects of haloperidol and SCH 23390 on acoustic startle in animals depleted of dopamine as neonates: implications for neuropsychiatric syndromes. Schwarzkopf SB, et al. **Psychopharmacology (Berl)** 1996 Feb;123(3):258–66

Effects of haloperidol on sensory processing in the hippocampus during classical eyeblink conditioning. Sears LL, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(3):254–60

Subchronic effects of clozapine and haloperidol on rats' forelimb force and duration during a press-while-licking task. Stanford JA, et al. **Psychopharmacology (Berl)** 1997 Apr;130(3):249–53

Regulation of ionotropic glutamate receptors following subchronic and chronic treatment with typical and atypical antipsychotics. Tarazi FI, et al. **Psychopharmacology (Berl)** 1996 Dec;128(4):371–9

Evidence for dissociable mechanisms of amphetamine- and stress-induced behavioral sensitization: effects of MK-801 and haloperidol pretreatment. Tolliver BK, et al. **Psychopharmacology (Berl)** 1996 Aug;126(3):191–8

Effects of clozapine, thioridazine, risperidone and haloperidol on behavioral tests related to extrapyramidal motor function. Trevitt JT, et al. **Psychopharmacology (Berl)** 1997 Jul;132(1):74–81

Involvement of adenosine and glutamate receptors in the induction of c-fos in the striatum by haloperidol. Boegman RJ, et al. **Synapse** 1996 Jan;22(1):70–7

Striatal c-fos levels do not correlate with haloperidol-induced behavioral supersensitivity. Marin C, et al. **Synapse** 1996 Jun;23(2):89–93

Activation of corticostriatal pathway leads to similar morphological changes observed following haloperidol treatment. Meshul CK, et al. **Synapse** 1996 Apr; 22(4):350–61

Localized changes in GABA receptor-gated chloride channel in rat brain after long-term haloperidol: relation to vacuous chewing movements. Sasaki T, et al. **Synapse** 1997 Jan;25(1):73–9

Increases in plasma concentration of m-chlorophenylpiperazine, but not trazodone, with low-dose haloperidol. Mihara K, et al. **Ther Drug Monit** 1997 Feb;19(1):43–5

[The influence of calcium channel blockers on the effects of haloperidol and phenamine in mice and rats] Kozlovskiĭ VL, et al. **Eksp Klin Farmakol** 1996 May–Jun;59(3):12–5 (Eng. Abstr.) **(Rus)**

[The duration of the retention of motor activity in rats evoked by a single injection of haloperidol] Bazian AS, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):944–8 **(Rus)**

POISONING

[Acute encephalomyopathy and persistent cerebellar syndrome after lithium salt and haloperidol poisoning] Gille M, et al. **Rev Neurol (Paris)** 1997 May;153(4):268–70 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Haloperidol, lorazepam, or both for psychotic agitation? A multicenter, prospective, double-blind, emergency department study. Battaglia J, et al. **Am J Emerg Med** 1997 Jul;15(4):335–40

Tourette syndrome associated with mental retardation: a single-subject treatment study with haloperidol. Rosenquist PB, et al. **Am J Ment Retard** 1997 Mar;101(5):497–504

Relative efficacy of haloperidol and pimozide in children and adolescents with Tourette's disorder [see comments] Sallee FR, et al. **Am J Psychiatry** 1997 Aug;154(8):1057–62 . Comment in: Am J Psychiatry 1997 Aug;154(8):1043–5.

Olanzapine versus haloperidol in the treatment of schizophrenia and schizoaffective and schizophreniform disorders: results of an international collaborative trial. Tollefson GD, et al. **Am J Psychiatry** 1997 Apr; 154(4):457–65

Controlled, dose-response study of sertindole and haloperidol in the treatment of schizophrenia. Sertindole Study Group. Zimbroff DL, et al. **Am J Psychiatry** 1997 Jun; 154(6):782–91

Treatment of a paradoxical reaction to midazolam with haloperidol. Khan LC, et al. **Anesth Analg** 1997 Jul; 85(1):213–5

Childhood-onset schizophrenia. A double-blind clozapine-haloperidol comparison. Kumra S, et al. **Arch Gen Psychiatry** 1996 Dec;53(12):1090–7

The relationship between plasma haloperidol concentrations and clinical results [letter; comment] Palao DJ, et al. **Arch Gen Psychiatry** 1996 Dec;53(12):1167–9. Comment on: Arch Gen Psychiatry 1995 Oct;52(10):837–45.

Acute effects of haloperidol on cerebral cortex blood flow in normal and schizophrenic subjects. Goldman RG, et al. **Biol Psychiatry** 1996 Oct 1;40(7):604–8

First-episode neuroleptic-free schizophrenics: concentrations of monoamines and their metabolites in plasma and their correlations with clinical responses to haloperidol treatment. Nagaoka S, et al. **Biol Psychiatry** 1997 Apr 15; 41(8):857–64

Prolactin monitoring of haloperidol and pimozide treatment in children with Tourette's syndrome. Sallee FR, et al. **Biol Psychiatry** 1996 Nov 15;40(10):1044–50

Antipsychotic drug effects in a model of schizophrenic attentional disorder: a randomized controlled trial of the effects of haloperidol on latent inhibition in healthy people. Williams JH, et al. **Biol Psychiatry** 1996 Dec 1; 40(11):1135–43

Differential effects of D2- and D4-blocking neuroleptics on the procedural learning of schizophrenic patients. Bédard MA, et al. **Can J Psychiatry** 1996 Sep;41(7 Suppl 1):S21–4

Response to Iwashashi: "significantly higher plasma haloperidol level during cotreatment with carbamazepine may herald cardiac change" [letter; comment] Zuiderwijk PB, et al. **Clin Neuropharmacol** 1997 Apr;20(2):179. Comment on: Clin Neuropharmacol 1996 Jun;19(3):267–70.

Dimensions of the Brief Psychiatric Rating Scale: an examination of stability during haloperidol treatment. Czobor P, et al. **Compr Psychiatry** 1996 May-Jun; 37(3):205–15

Olanzapine versus haloperidol: acute phase results of the international double-blind olanzapine trial. Beasley CM Jr, et al. **Eur Neuropsychopharmacol** 1997 May;7(2):125–37

Cognitive dysfunction in schizophrenia: comparison of treatment with atypical antipsychotic agents and conventional neuroleptic drugs. Gallhofer B, et al. **Eur Neuropsychopharmacol** 1996;6 Suppl 2:S13–20

Pramipexole as adjunct to haloperidol in schizophrenia. Safety and efficacy. Kasper S, et al. **Eur Neuropsychopharmacol** 1997 Feb;7(1):65–70

Rheumatic chorea. Sudhindra BK. **Indian Pediatr** 1996 Jan; 33(1):47–9

Efficacy of lorazepam and haloperidol for rapid tranquilization in a psychiatric emergency room setting. Foster S, et al. **Int Clin Psychopharmacol** 1997 May; 12(3):175–9

Does plasma free-3-methoxy-4-hydroxyphenyl(ethylene)glycol increase in the delirious state? A comparison of the effects of mianserin and haloperidol on delirium. Nakamura J, et al. **Int Clin Psychopharmacol** 1997 May;12(3):147–52

The use of haloperidol in the agitated, critically ill pediatric patient with burns. Brown RL, et al. **J Burn Care Rehabil** 1996 Jan-Feb;17(1):34–8

Risperidone versus haloperidol in the treatment of schizophrenia: a meta-analysis comparing their efficacy and safety. de Oliveira IR, et al. **J Clin Pharm Ther** 1996 Oct; 21(5):349–58

Extrapyramidal symptoms and tolerability of olanzapine versus haloperidol in the acute treatment of schizophrenia [published erratum appears in J Clin Psychiatry 1997 Jun;58(6):275] Tran PV, et al. **J Clin Psychiatry** 1997 May; 58(5):205–11

Economic and health state utility determinations for schizophrenic patients treated with risperidone or haloperidol. Chouinard G, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):298–307

Effect of haloperidol on the development of the solid Ehrlich tumor in mice. Kleeb SR, et al. **Life Sci** 1997; 60(4–5):PL69–74

Treatment with haloperidol or clozapine causes changes in dopamine receptors but not adenylate cyclase or protein kinase C in the rat forebrain. Wan DC, et al. **Life Sci** 1996; 59(23):2001–8

A comparison of clozapine and haloperidol in hospitalized patients with refractory schizophrenia. Department of Veterans Affairs Cooperative Study Group on Clozapine in Refractory Schizophrenia [see comments] Rosenheck R, et al. **N Engl J Med** 1997 Sep 18;337(12):809–15. Comment in: N Engl J Med 1997 Sep 18;337(12):851–2.

Hysterical neurosis of the conversion type: therapeutic activity of neuroleptics with different hyperprolactinemic potency. Rampello L, et al. **Neuropsychobiology** 1996; 33(4):186–8

Olanzapine versus placebo and haloperidol: acute phase results of the North American double-blind olanzapine trial [see comments] Beasley CM Jr, et al. **Neuropsychopharmacology** 1996 Feb;14(2):111–23. Comment in: Neuropsychopharmacology 1997 Jan;16(1):88–90.

Dopamine turnover in schizophrenia before and after haloperidol withdrawal. CSF, plasma, and urine studies. Beuger M, et al. **Neuropsychopharmacology** 1996 Jul; 15(1):75–86

Nicotine-haloperidol interactions and cognitive performance in schizophrenics. Levin ED, et al. **Neuropsychopharmacology** 1996 Nov;15(5):429–36

Predicting duration of clinical stability following haloperidol withdrawal in schizophrenic patients. van Kammen DP, et al. **Neuropsychopharmacology** 1996 Apr;14(4):275–83

Interaction between fluoxetine and haloperidol: pharmacokinetic and clinical implications. Avenoso A, et al. **Pharmacol Res** 1997 Apr;35(4):335–9

Effect of neuroleptic treatment on depressive symptoms in acute schizophrenic episodes. Krakowski M, et al. **Psychiatry Res** 1997 Jun 16;71(1):19–26

Predicting haloperidol treatment response in chronic schizophrenia. van Kammen DP, et al. **Psychiatry Res** 1996 Aug 30;64(1):47–58

Decreased serotonergic responsivity in platelets of drug-free patients with schizophrenia. Yao JK, et al. **Psychiatry Res** 1996 Jul 31;63(2–3):123–32

A comparison of an atypical and typical antipsychotic, zotepine versus haloperidol in patients with acute exacerbation of schizophrenia: a parallel-group double-blind trial. Petit M, et al. **Psychopharmacol Bull** 1996;32(1):81–7

Symptom change and extrapyramidal side effects during acute haloperidol treatment in chronic geriatric schizophrenics. Weisbard JJ, et al. **Psychopharmacol Bull** 1997;33(1):119–22

Positive and negative symptoms: is their change related? Czobor P, et al. **Schizophr Bull** 1996;22(4):577–90

Usage of haloperidol for delirium in cancer patients. Akechi T, et al. **Support Care Cancer** 1996 Sep;4(5):390–2

A retrospective study of the psychiatric management and outcome of delirium in the cancer patient [see comments] Olofsson SM, et al. **Support Care Cancer** 1996 Sep; 4(5):351–7. Comment in: Support Care Cancer 1996 Sep;4(5):325.

[Zotepin—its value and potentials for further development] **Nervenarzt** 1994 Jul;65(7 Suppl):1–8 **(Ger)**

[Pharmacological treatment of delusional depression] Amore M, et al. **Minerva Psichiatr** 1996 Mar;37(1):29–33 (28 ref.) (Eng. Abstr.) **(Ita)**

[Risperidone in the treatment of chronic schizophrenia: multicenter study comparative to haloperidol] López Ibor JJ, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Jul-Aug;24(4):165–72 (Eng. Abstr.) **(Spa)**

TOXICITY

Oxidative stress-resistant cells are protected against haloperidol toxicity. Behl C, et al. **Brain Res** 1996 Apr 22;717(1–2):193–5

Development of an animal model for neuroleptic malignant syndrome: heat-exposed rabbits with haloperidol and atropine administration exhibit increased muscle activity, hyperthermia, and high serum creatine phosphokinase level. Tanii H, et al. **Brain Res** 1996 Dec 16;743(1–2):263–70

Hyperactive behavioural effects induced by intranigral infusion of a pyridinium metabolite of haloperidol in rats. Fang J. **Can J Physiol Pharmacol** 1996 Dec;74(12):1359–61

The dopamine D3 receptor antagonist, (+)-S 14297, blocks the cataleptic properties of haloperidol in rats. Millan MJ, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):R7–9

Pharmacological and neurochemical differences between acute and tardive vacuous chewing movements induced by haloperidol. Egan MF, et al. **Psychopharmacology (Berl)** 1996 Oct;127(4):337–45

Correlation of vacuous chewing movements with morphological changes in rats following 1-year treatment with haloperidol. Meshul CK, et al. **Psychopharmacology (Berl)** 1996 Jun;125(3):238–47

Autoradiographic mapping of mu opioid receptor changes in rat brain after long-term haloperidol treatment: relationship to the development of vacuous chewing movements. Sasaki T, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):97–104

HALOTHANE

Bupivacaine does not suppress cardiac sympathetic nerve activity during halothane anesthesia in the cat. Nishikawa K, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):595–601

Laryngeal mask insertion following inhalational induction in children: a comparison between halothane and sevoflurane. Kwek TK, et al. **Anaesth Intensive Care** 1997 Aug; 25(4):413–6

Comparison of induction and recovery between sevoflurane and halothane supplementation of anaesthesia in children undergoing outpatient dental extractions. Ariffin SA, et al. **Br J Anaesth** 1997 Feb;78(2):157–9

Halothane-propofol anaesthesia for tracheal intubation in young children. Hansen D, et al. **Br J Anaesth** 1997 Apr; 78(4):366–9

Rapid inhalation induction in children: 8% sevoflurane compared with 5% halothane. Sigston PE, et al. **Br J Anaesth** 1997 Apr;78(4):362–5

The arrhythmogenic dose of epinephrine in halothane and isoflurane anesthetized dogs: an assessment of repeatability. Pettifer G, et al. **Can J Vet Res** 1997 Jul;61(3):221–6

An evaluation of the influence of medetomidine hydrochloride and atipamezole hydrochloride on the arrhythmogenic dose of epinephrine in dogs during halothane anesthesia. Pettifer GR, et al. **Can J Vet Res** 1996 Jan;60(1):1–6

Deep halothane anaesthesia compared with halothane-suxamethonium anaesthesia for tracheal intubation in young children. Hansen D, et al. **Eur J Anaesthesiol** 1997 Jan;14(1):29–34

Increased activity of bulbospinal cardiovascular neurons in the rat rostral ventrolateral medulla upon emergence from anaesthesia. Frugière A, et al. **J Auton Nerv Syst** 1996 Oct 7;61(1):87–95

Parental presence plus oral midazolam decreases frequency of 5% halothane inductions in children. Gillerman RG, et al. **J Clin Anesth** 1996 Sep;8(6):480–5

Study of clinical anaesthesia with pedius A anaesthesia system using ketamine or halothane with muscle relaxant. Das SK, et al. **J Indian Med Assoc** 1995 Oct;93(10):377–9

Cutaneous responsiveness of lumbar spinal neurons in awake and halothane-anesthetized sheep. Herrero JF, et al. **J Neurophysiol** 1995 Oct;74(4):1549–62

Anaesthesia for insertion of ear tubes in children: comparison of propofol, thiopentone and halothane. Carpenter RD, et al. **Paediatr Anaesth** 1997;7(1):25–31

A comparison of sevoflurance to halothane in paediatric surgical patients: results of a multicentre international study. Kataria B, et al. **Paediatr Anaesth** 1996;6(4):283–92

Cisatracurium during halothane and balanced anaesthesia in children. Meretoja OA, et al. **Paediatr Anaesth** 1996; 6(5):373–8

Neuromuscular effects of rocuronium in children during halothane anaesthesia. Vuksanaj D, et al. **Paediatr Anaesth** 1996;6(4):277–81

Metabolic, hormonal, and hemodynamic changes during dopamine infusions in halothane anesthetized horses. Robertson SA, et al. **Vet Surg** 1996 Jan-Feb;25(1):88–97

[Serum cytokines and cytokine receptors in children after small or larger surgical interventions with halothane anesthesia] Burkhardt U, et al. **Anaesthesiol Reanim** 1997; 22(2):50–4 (Eng. Abstr.) **(Ger)**

[Echocardiography values in the halothane uptake phase--measurement by acoustic quantification and manual evaluation] Laux G, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jan; 32(1):30–5 (Eng. Abstr.) **(Ger)**

[Blood supply to the liver in the human after 1 MAC desflurane in comparison with isoflurane and halothane] Schindler E, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):344–8 (Eng. Abstr.) **(Ger)**

[Effects of halothane and sevoflurane on reversal of neuromuscular blockade induced by vecuronium in man] Izawa H, et al. **Masui** 1997 Feb;46(2):177–83 (Eng. Abstr.) **(Jpn)**

[Induction anesthesia with fluothane and calipsol in children] Babaev BD, et al. **Anesteziol Reanimatol** 1996 Nov-Dec; (6):41–3 (Eng. Abstr.) **(Rus)**

[The efficacy of using alpha-tocopherol during ftorotan anesthesia] Abidova SS, et al. **Eksp Klin Farmakol** 1996 Jul-Aug;59(4):3–4 (Eng. Abstr.) **(Rus)**

[Comparative study of recovery from general anesthesia with halothane or sevoflurane in pediatrics] Calderón E, et al. **Rev Esp Anestesiol Reanim** 1996 Oct;43(8):272–5 (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

Comparison of isoflurane, halothane and fentanyl in patients with decreased ejection fraction undergoing coronary surgery. Urzua J, et al. **Anaesth Intensive Care** 1996 Oct; 24(5):579–84

Laser Doppler skin blood flow and sympathetic nervous responses to surgical incision during halothane and isoflurane anesthesia. Mashimo T, et al. **Anesth Analg** 1997 Aug;85(2):291–8

Comparison of emergence and recovery characteristics of sevoflurane, desflurane, and halothane in pediatric ambulatory patients. Welborn LG, et al. **Anesth Analg** 1996 Nov;83(5):917–20

Minimum alveolar concentration of halothane and enflurane

are decreased in early pregnancy. Chan MT, et al. **Anesthesiology** 1996 Oct;85(4):782–6

Effects of blood glucose changes and physostigmine on anesthetic requirements of halothane in rats. Ishizawa Y, et al. **Anesthesiology** 1997 Aug;87(2):354–60

Output from a Drager Vapor 19.1 on a moving trolley [letter] Garden AL, et al. **Can J Anaesth** 1997 Feb;44(2):227–8

Halothane consumption under varying breathing circuit designs. Wambani JO. **East Afr Med J** 1996 Dec; 73(12):827–9

Reduction of infarct volume by halothane: effect on cerebral blood flow or perifocal spreading depression–like depolarizations. Saito R, et al. **J Cereb Blood Flow Metab** 1997 Aug;17(8):857–64

Dose–sparing effects of romifidine premedication for thiopentone and halothane anaesthesia in the dog. England GC, et al. **J Small Anim Pract** 1997 Apr;38(4):141–6

Halothane and cardiac autonomic control in infants: assessment with quantitative respiratory sinus arrhythmia. Oberlander TF, et al. **Pediatr Res** 1996 Nov;40(5):710–7

Halothane administration during liquid ventilation. Kimless–Garber DB, et al. **Respir Med** 1997 May; 91(5):255–62

ADVERSE EFFECTS

Immediate 8% sevoflurane induction in children: a comparison with incremental sevoflurane and incremental halothane. Baum VC, et al. **Anesth Analg** 1997 Aug; 85(2):313–6

Assessment of 3 audible monitors during hypotension in anesthetized dogs. Dyson DH. **Can Vet J** 1997 Sep; 38(9):564–6

Hepatic injury associated with halogenated anaesthetics: cross–sensitization and its clinical implications. Mikatti NE, et al. **Eur J Anaesthesiol** 1997 Jan;14(1):7–14 (57 ref.)

Marked increases in heart rate associated with sevoflurane but not with halothane following suxamethonium administration in children. Rieger A, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):616–21

Immunoallergic drug–induced hepatitis: lessons from halothane. Kenna JG. **J Hepatol** 1997;26 Suppl 1:5–12 (49 ref.)

Cytochrome P450 2E1 is a cell surface autoantigen in halothane hepatitis. Eliasson E, et al. **Mol Pharmacol** 1996 Sep;50(3):573–82

Pulmonary microvascular injury following general anaesthesia with volatile anaesthetics––halothane and isoflurane: a comparative clinical and experimental study. Gunaydin B, et al. **Respir Med** 1997 Jul;91(6):351–60

[Comparative characterization of damaging mental effect of general anesthesia using fluothane and ketamine in surgery of the face in children with congenital facial and palatal clefts] Egorov VM, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):31–3 (Eng. Abstr.) **(Rus)**

[Atypical malignant hyperthermia. A higher incidence than expected (letter)] Herrero E, et al. **Rev Esp Anestesiol Reanim** 1996 Jan;43(1):42–3 **(Spa)**

ANALYSIS

Halothane or halitosis? [letter] Scott PV. **Anaesthesia** 1997 Aug;52(8):811

Simple method for simultaneous determination of halothane, enflurane, and isoflurane in Krebs solution using capillary gas chromatography. Farthing D, et al. **Biomed Chromatogr** 1997 Jan–Feb;11(1):29–32

Focal heat stimulation for the determination of the minimum alveolar concentration of halothane in the rabbit. Sobair AT, et al. **Vet Res Commun** 1997 Apr;21(3):149–59

CHEMISTRY

Negative entropy of halothane binding to protein: 19F–NMR with a novel cell. Yoshida T, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):117–22

[Degradation of halothane, enflurane, and isoflurane by dry soda lime to give carbon monoxide] Strauss JM, et al. **Anaesthesist** 1996 Sep;45(9):798–801 (Eng. Abstr.) **(Ger)**

METABOLISM

Entropy–driven interactions of anesthetics with membrane proteins. Lopez MM, et al. **Biochemistry** 1997 Jul 22; 36(29):8864–72

Characterization of the NADPH–dependent covalent binding of [14C]halothane to human liver microsomes: a role for cytochrome P4502E1 at low substrate concentrations. Madan A, et al. **Drug Metab Dispos** 1996 Dec; 24(12):1307–13

Human reductive halothane metabolism in vitro is catalyzed by cytochrome P450 2A6 and 3A4. Spracklin DK, et al. **Drug Metab Dispos** 1996 Sep;24(9):976–83

Halothane acts as a partial agonist of the alpha6 beta2 gamma2S GABA(A)receptor. Sincoff R, et al. **FASEB J** 1996 Nov;10(13):1539–45

Heterogeneous halothane binding in the SR Ca2+–ATPase. Kosk–Kosicka D, et al. **FEBS Lett** 1997 Feb 3; 402(2–3):189–92

Patients must be a virtue. Kenna JG. **Hum Exp Toxicol** 1996 Dec;15(12):981–3

Binding of the volatile anesthetic halothane to the hydrophobic core of a tetra–alpha–helix–bundle protein. Johansson JS, et al. **J Pharmacol Exp Ther** 1996 Oct; 279(1):56–61

Cytochrome P450 2E1 is the principal catalyst of human oxidative halothane metabolism in vitro. Spracklin DK, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):400–11

Influence of carprofen on minimum alveolar concentration of halothane in dogs. Alibhai HI, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):320–1

The effect of epidural xylazine on halothane minimum alveolar concentration in ponies. Doherty TJ, et al. **J Vet Pharmacol Ther** 1997 Jun;20(3):246–8

Reductive metabolism of halothane by cytochrome P450 isoforms in rats and humans. Chow T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Sep;93(3):363–74

Physiologically based pharmacokinetic analysis of the concentration–dependent metabolism of halothane. Loizou GD, et al. **Xenobiotica** 1997 Jan;27(1):87–99

PHARMACOKINETICS

A non–rebreathing coaxial anaesthesia system: dependence of end–tidal gas concentrations on fresh gas flow and tidal volume. Tweed WA. **Anaesthesia** 1997 Mar;52(3):237–41

Effects of epidural and intravenous buprenorphine on halothane minimum alveolar anesthetic concentration and hemodynamic responses. Inagaki Y, et al. **Anesth Analg** 1997 Jan;84(1):100–5

Minimum alveolar concentration of halothane and enflurane are decreased in early pregnancy. Chan MT, et al. **Anesthesiology** 1996 Oct;85(4):782–6

Rat to human extrapolation of HCFC–123 kinetics deduced from halothane kinetics: a corollary approach to physiologically based pharmacokinetic modeling. Williams RJ, et al. **Fundam Appl Toxicol** 1996 Mar;30(1):55–66

Determination of the halothane metabolites trifluoroacetic acid and bromide in plasma and urine by ion chromatography. Hankins DC, et al. **J Chromatogr B Biomed Appl** 1997 May 9;692(2):413–8

Characterization of the cerebral distribution of general anesthetics in vivo by two–dimensional 19F chemical shift imaging. Venkatasubramanian PN, et al. **Magn Reson Med** 1996 Apr;35(4):626–30

Physiologically based pharmacokinetic analysis of the concentration–dependent metabolism of halothane. Loizou GD, et al. **Xenobiotica** 1997 Jan;27(1):87–99

PHARMACOLOGY

Effect of temperature variation (22 degrees C–44 degrees C) on halothane and caffeine contracture testing in normal humans. Antognini JF, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):639–42

In vivo effects of halothane, enflurane, and isoflurane on hepatic sinusoidal microcirculation. Grundmann U, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):760–5

Effects of halothane and isoflurane on left ventricular diastolic function during surgical stress in patients with coronary artery disease. Houltz E, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):931–8

Effects of halothane, isoflurane and sevoflurane on ischemia–reperfusion injury in the perfused liver of fasted rats. Imai M, et al. **Acta Anaesthesiol Scand** 1996 Nov; 40(10):1242–8

The effect of halothane on mivacurium infusion requirements in adult surgical patients. Kansanaho M, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):754–9

alpha 1–adrenoceptor stimulation is able to reverse halothane–induced cardiac depression in isolated rat hearts. Okuyama T, et al. **Acta Anaesthesiol Scand** 1997 Aug; 41(7):939–44

Effects of halothane, isoflurane and sevoflurane on calcium–related contraction in porcine coronary arteries. Zhang XP, et al. **Acta Anaesthesiol Scand** 1996 Aug; 40(7):815–9

Comparison of sevoflurane with halothane in pediatric ambulatory anesthesia: an experience in Taiwan. Chong ZK, et al. **Acta Anaesthesiol Sin** 1997 Mar;35(1):21–4

Priming technique accelerates the onset time of mivacurium in children during halothane anesthesia. Chu YC, et al. **Acta Anaesthesiol Sin** 1997 Mar;35(1):15–20

The effect of chronic nicotine and its withdrawal on ED50 inspired halothane requirement in rats. Yang CY, et al. **Acta Anaesthesiol Sin** 1997 Jun;35(2):73–7

Halothane reduces myofilament Ca2+ sensitivity during muscarinic receptor stimulation of airway smooth muscle. Akao M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):L719–25

Ca(2+)– and pH–dependent halothane stimulation of Ca2+ release in sarcoplasmic reticulum from frog muscle [published errata appear in Am J Physiol 1996 Dec;271(6 Pt 1):section C following table of contents and 1996 Dec;271(6 Pt 3):section C following table of contents] Beltrán M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C540–6

Rapid cooling contractures in rat skinned myocardium: effects of isoflurane and halothane. Herland J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1662–71

Halothane inhibits agonist–induced potentiation of rMLC phosphorylation in permeabilized airway smooth muscle. Jones KA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L80–5

Muscarinic receptor stimulation modulates the effect of halothane on Mn2+ influx in airway smooth muscle. Warner DO, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C868–73

Altered sodium current response to intracellular fatty acids in halothane–hypersensitive skeletal muscle. Wieland SJ, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C347–53

Cardiopulmonary effects of sevoflurane, compared with halothane, enflurane, and isoflurane, in dogs. Mutoh T, et al. **Am J Vet Res** 1997 Aug;58(8):885–90

Effects of halothane and sevoflurane on the electroretinogram of dogs. Yanase J, et al. **Am J Vet Res** 1997 Aug;58(8):904–9

Temporal effects of an infusion of dopexamine hydrochloride in horses anesthetized with halothane. Young LE, et al. **Am J Vet Res** 1997 May;58(5):516–23

Isoflurane and halothane produce similar alterations in aortic distensibility and characteristic aortic impedance. Hettrick DA, et al. **Anesth Analg** 1996 Dec;83(6):1166–72

Isoflurane and halothane attenuate endothelium–dependent vasodilation in rat coronary microvessels. Park KW, et al. **Anesth Analg** 1997 Feb;84(2):278–84

The effects of halothane and isoflurane on the phosphoenergetic state of the liver during hemorrhagic shock in rats: an in vivo 31P nuclear magnetic resonance spectroscopic study. Takahashi K, et al. **Anesth Analg** 1997 Aug;85(2):347–52

Halothane inhalation inhibits the metabolism of chlorzoxazone, a substrate for CYP2E1, in rabbits. Tateishi T, et al. **Anesth Analg** 1997 Jul;85(1):199–203

The effects of halothane pretreatment on manganese influx induced by muscarinic stimulation of airway smooth muscle. Warner DO, et al. **Anesth Analg** 1997 Jun; 84(6):1366–71

Isoflurane and halothane increase adenosine triphosphate preservation, but do not provide additive recovery of function after ischemia, in preconditioned rat hearts. Boutros A, et al. **Anesthesiology** 1997 Jan;86(1):109–17

Halothane attenuation of calcium sensitivity in airway smooth muscle. Mechanisms of action during muscarinic receptor stimulation. Bremarich DH, et al. **Anesthesiology** 1997 Jul; 87(1):94–101

Differential inhibition of lysophosphatidate signaling by volatile anesthetics. Chan CK, et al. **Anesthesiology** 1997 Mar;86(3):660–9

Role of adenosine triphosphate–sensitive potassium channels in coronary vasodilation by halothane, isoflurane, and enflurane. Crystal GJ, et al. **Anesthesiology** 1997 Feb; 86(2):448–58

Halothane prevents postischemic production of hydroxyl radicals in the canine heart. Glantz L, et al. **Anesthesiology** 1997 Feb;86(2):440–7

Effects of desflurane in rat myocardium: comparison with isoflurane and halothane. Gueugniaud PY, et al. **Anesthesiology** 1997 Sep;87(3):599–609

Prevention of methacholine–induced changes in respiratory mechanics in piglets: a comparison of sevoflurane and halothane. Habre W, et al. **Anesthesiology** 1997 Sep; 87(3):585–90

Interaction of halothane with alpha– and beta–adrenoceptor stimulations in rat myocardium. Hanouz JL, et al. **Anesthesiology** 1997 Jan;86(1):147–59

Halothane–induced dilatation of intraparenchymal arterioles in rat brain slices: a comparison to sodium nitroprusside. Harkin CP, et al. **Anesthesiology** 1997 Apr;86(4):885–94

Sevoflurane depresses myocardial contractility less than halothane during induction of anesthesia in children. Holzman RS, et al. **Anesthesiology** 1996 Dec;85(6):1260–7

Halothane, isoflurane, and sevoflurane reduce postischemic adhesion of neutrophils in the coronary system. Kowalski C, et al. **Anesthesiology** 1997 Jan;86(1):188–95

Volatile anesthetics depress glutamate transmission via presynaptic actions. MacIver MB, et al. **Anesthesiology** 1996 Oct;85(4):823–34

Increase of glutamate uptake in astrocytes: a possible mechanism of action of volatile anesthetics. Miyazaki H, et al. **Anesthesiology** 1997 Jun;86(6):1359–66; discussion 8A

Leukocyte–endothelium interaction in the rat mesenteric microcirculation during halothane or sevoflurane anesthesia. Morisaki H, et al. **Anesthesiology** 1997 Sep; 87(3):591–8

Halothane and diazepam inhibit ketamine–induced c–fos expression in the rat cingulate cortex. Nakao S, et al. **Anesthesiology** 1996 Oct;85(4):874–82

Isoflurane, but not halothane, improves indices of diastolic performance in dogs with rapid ventricular, pacing–induced cardiomyopathy. Pagel PS, et al. **Anesthesiology** 1996 Sep;85(3):644–54

Volatile anesthetics affect calcium mobilization in bovine endothelial cells. Pajewski TN, et al. **Anesthesiology** 1996 Nov;85(5):1147–56

Isoflurane– and halothane–mediated dilation of distal bronchi in the rat depends on the epithelium. Park KW, et al. **Anesthesiology** 1997 May;86(5):1078–87; discussion 23A–24A

Halothane blocks synaptic excitation of inhibitory interneurons. Perouansky M, et al. **Anesthesiology** 1996 Dec;85(6):1431–8; discussion 29A

Halothane interactions with nicotinic acetylcholine receptor membranes. Steady–state and kinetic studies of intrinsic fluorescence quenching. Raines DE, et al. **Anesthesiology** 1997 Feb;86(2):476–86

Inhalational anesthetic effects on rat cerebellar nitric oxide and cyclic guanosine monophosphate production. Rengasamy A, et al. **Anesthesiology** 1997 Mar;86(3):689–98

Halothane and isoflurane differentially affect the regulation of dopamine and gamma–aminobutyric acid release mediated by presynaptic acetylcholine receptors in the rat

striatum. Salord F, et al. **Anesthesiology** 1997 Mar; 86(3):632–41

Halothane and enflurane attenuate pulmonary vasodilation mediated by adenosine triphosphate-sensitive potassium channels compared to the conscious state. Seki S, et al. **Anesthesiology** 1997 Apr;86(4):923–35

Halothane attenuates endothelium-dependent pulmonary vasorelaxant response to lemakalim, an adenosine triphosphate (ATP)-sensitive potassium channel agonist. Seki S, et al. **Anesthesiology** 1997 Sep;87(3):625–34

Actions of phenylephrine, isoproterenol, and epinephrine with halothane on endocardial conduction and activation in canine left ventricular papillary muscles. Vodanovic S, et al. **Anesthesiology** 1997 Jul;87(1):117–26

Initial contractile response of isolated rat heart cells to halothane, enflurane, and isoflurane. Wheeler DM, et al. **Anesthesiology** 1997 Jan;86(1):137–46

Volatile general anesthetics produce hyperpolarization of Aplysia neurons by activation of a discrete population of baseline potassium channels. Winegar BD, et al. **Anesthesiology** 1996 Oct;85(4):889–900

Analysis of the cellular mechanism for halothane inhibition of brown adipose tissue thermogenesis. Ohlson KB, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:718–21

Effect of halothane on K+ and carbachol stimulated [3H]noradrenaline release and increased [Ca2+]i in SH-SY5Y human neuroblastoma cells. Atcheson R, et al. **Br J Anaesth** 1997 Jul;79(1):78–83

Role of prostaglandins and nitric oxide on halothane-induced arteriolar dilatation in rat diaphragm. de Larminat V, et al. **Br J Anaesth** 1996 Aug;77(2):232–7

Propofol or halothane anaesthesia for children with asthma: effects on respiratory mechanics. Habre W, et al. **Br J Anaesth** 1996 Dec;77(6):739–43

Effect of halothane on conventional protein kinase C translocation and down-regulation in rat cerebrocortical synaptosomes. Hemmings HC Jr, et al. **Br J Anaesth** 1997 Feb;78(2):189–96

Dose-response curve for anaesthetics based on the Monod-Wyman-Changeux model [see comments] Iwai T, et al. **Br J Anaesth** 1996 Oct;77(4):517–21. Comment in: Br J Anaesth 1997 Feb;78(2):230–1. Comment in: Br J Anaesth 1997 Jun;78(6):776.

Hepatocellular integrity during and after isoflurane and halothane anaesthesia in surgical patients [see comments] Tiainen P, et al. **Br J Anaesth** 1996 Dec;77(6):744–7. Comment in: Br J Anaesth 1997 Jun;78(6):772–3.

Effects of two volatile anesthetics (sevoflurane and halothane) on the hypothalamic noradrenaline release in rat brain. Chave S, et al. **Brain Res** 1996 Jan 15;706(2):293–6

Inhalation anesthetics suppress the expression of c-Fos protein evoked by noxious somatic stimulation in the deeper layer of the spinal cord in the rat. Hagihira S, et al. **Brain Res** 1997 Mar 14;751(1):124–30

Halothane affects both inhibitory and excitatory synaptic transmission at a single identified molluscan synapse, in vivo and in vitro. Spencer GE, et al. **Brain Res** 1996 Apr 1;714(1-2):38–48

Pattern of ventilation during halothane anaesthesia in infants less than two months of age. Brown KA. **Can J Anaesth** 1996 Feb;43(2):121–8

Ventilatory parameters in children during propofol anaesthesia: a comparison with halothane. Kulkarni P, et al. **Can J Anaesth** 1996 Jul;43(7):653–9

Halothane and isoflurane enhance melanoma tumour metastasis in mice. Moudgil GC, et al. **Can J Anaesth** 1997 Jan;44(1):90–4

Transient and long-lasting effects of iontophoretically administered norepinephrine on somatosensory cortical neurons in halothane-anesthetized cats. Warren RA, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):38–57

UDP-glucose:glycoprotein glucosyltransferase associates with endoplasmic reticulum chaperones and its activity is decreased in vivo by the inhalation anesthetic halothane. Amouzadeh HR, et al. **Chem Res Toxicol** 1997 Jan; 10(1):59–63

The haemodynamic effects of milrinone HCl in halothane anaesthetised horses. Muir WW. **Equine Vet J Suppl** 1995 Sep;(19):108–13

The inhibition of serotonin evoked bovine coronary artery contraction by halothane, isoflurane and sevoflurane is endothelium-independent. Xiaoping Z, et al. **Eur J Anaesthesiol** 1996 Jul;13(4):352–8

Halothane inhibits endothelium-dependent relaxation elicited by acetylcholine in human isolated pulmonary arteries. Higueras J, et al. **Eur J Pharmacol** 1997 May 20; 326(2-3):175–81

Halothane counteracts acetylcholine-induced increase in Ca2+ sensitivity of the contractile apparatus in airway smooth muscle. Kai T, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):313–8

Guinea-pig tracheal responsiveness in vitro following general anaesthesia with halothane. Mercier FJ, et al. **Eur Respir J** 1996 Jul;9(7):1451–5

Heterogeneous halothane binding in the SR Ca2+-ATPase. Kosk-Kosicka D, et al. **FEBS Lett** 1997 Feb 3; 402(2-3):189–92

Appropriate thermal manipulations eliminate tremors in rats recovering from halothane anesthesia. Grahn DA, et al. **J Appl Physiol** 1996 Dec;81(6):2547–54

In vivo direct measurement of the bronchodilating effect of sevoflurane using a superfine fiberoptic bronchoscope: comparison with enflurane and halothane. Hashimoto Y, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):213–6

Halothane-induced liver injury in guinea-pigs: importance of cytochrome P450 enzyme activity and hepatic blood flow. Farrell GC, et al. **J Gastroenterol Hepatol** 1996 Jun; 11(6):594–601

Interactions between neuronal histamine and halothane anesthesia in rats. Mammoto T, et al. **J Neurochem** 1997 Jul;69(1):406–11

Modulation of forebrain electroencephalographic activity in halothane-anesthetized rat via actions of noradrenergic beta-receptors within the medial septal region. Berridge CW, et al. **J Neurosci** 1996 Nov 1;16(21):7010–20

Halothane and isoflurane preferentially depress a slowly inactivating component of Ca2+ channel current in guinea-pig myocytes. Pancrazio JJ. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):91–103

Halothane anesthesia and serum electrolytes. Alarcón OM, et al. **J Trace Elem Med Biol** 1996 Apr;10(1):46–9

Midazolam and ketamine induction before halothane anaesthesia in ponies: cardiorespiratory, endocrine and metabolic changes. Luna SP, et al. **J Vet Pharmacol Ther** 1997 Apr;20(2):153–9

Effects of isoflurane versus halothane on myocardial contractility in rabbits: assessment with transthoracic two-dimensional echocardiography. Marano G, et al. **Lab Anim** 1997 Apr;31(2):144–50

Effects of halothane, alpha-chloralose, and pCO2 on injury volume and CSF beta-endorphin levels in focal cerebral ischemia. Browning JL, et al. **Mol Chem Neuropathol** 1997 May;31(1):29–42

Effects of volatile anesthetics on the G protein-regulated muscarinic potassium channel. Magyar J, et al. **Mol Pharmacol** 1996 Dec;50(6):1520–8

HSP72 expression in malignant hyperthermia and normal muscle following exposure to caffeine and halothane [letter] Brooksbank R, et al. **Muscle Nerve** 1997 Jan;20(1):123

Halothane alters electrical activity and calcium dynamics in cultured mouse cortical, spinal cord, and dorsal root ganglion neurons. Wamil AW, et al. **Neurosci Lett** 1996 Sep 27;216(2):93–6

Halothane and isoflurane dose-dependently inhibit the cyclic GMP increase caused by N-methyl-D-aspartate in rat cerebellum: novel localization and quantitation by in vitro autoradiography. Zuo Z, et al. **Neuroscience** 1996 Oct; 74(4):1069–75

Recovery of psychomotor function following general anaesthesia in children: a comparison of propofol and thiopentone/halothane. Schröter J, et al. **Paediatr Anaesth** 1996;6(4):317–24

Influence of general anesthetics on a specific neural pathway in Drosophila melanogaster. Lin M, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10446–51

Quantitative trait loci controlling halothane sensitivity in Caenorhabditis elegans. van Swinderen B, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8232–7

Adrenoceptor mechanism involved in thiopental-induced potentiation of halothane-epinephrine arrhythmias in dogs. Kamibayashi T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug;93(2):225–34

Role of L-type calcium channels on halothane-induced myocardial depression in cultured rat ventricular myocytes. Kanaya N, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan;91(1):85–96

Stimulatory effect of anesthetics on dechlorination of carbon tetrachloride in guinea-pig liver microsomes. Fujii K. **Toxicology** 1996 Dec 2;114(2):147–53

A comparison of the effects of halothane and isoflurane in combination with nitrous oxide on lower oesophageal sphincter pressure and barrier pressure in anaesthetised dogs. Hashim MA, et al. **Vet Rec** 1995 Dec 23-30; 137(26):658–61

Comparisons of sevoflurane, isoflurane, and halothane anesthesia in spontaneously breathing cats. Hikasa Y, et al. **Vet Surg** 1996 May-Jun;25(3):234–43

[Effects of halothane, isoflurane, enflurane, and sevoflurane on the monosynaptic reflex response in the isolated spinal cord of newborn rats] Tsutahara S, et al. **Masui** 1996 Jul; 45(7):829–36 (Eng. Abstr.) **(Jpn)**

[Cardiocirculatory effects of halothane and isoflurane in respiratory distress caused by oleic acid] Cobreces-García MJ, et al. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):3–6 (Eng. Abstr.) **(Spa)**

THERAPEUTIC USE

Halothane reduces reperfusion injury after regional ischaemia in the rabbit heart in vivo. Schlack W, et al. **Br J Anaesth** 1997 Jul;79(1):88–96

Changes in cerebral blood flow velocity in children during sevoflurane and halothane anesthesia. Berkowitz RA, et al. **J Neurosurg Anesthesiol** 1996 Jul;8(3):194–8

[Volatile agents in ambulatory anesthesia] Clergue F. **Rev Med Suisse Romande** 1997 May;117(5):383–8 (16 ref.) **(Fre)**

TOXICITY

Halothane hepatotoxicity and hepatic free radical metabolism in guinea pigs; the effects of vitamin E. Durak I, et al. **Can J Anaesth** 1996 Jul;43(7):741–8

Human cytochrome P450 2E1 is a major autoantigen associated with halothane hepatitis. Bourdi M, et al. **Chem Res Toxicol** 1996 Oct-Nov;9(7):1159–66

Characterization of the humoral immune response and hepatotoxicity after multiple halothane exposures in guinea pigs. Chen M, et al. **Drug Metab Rev** 1997 Feb-May; 29(1-2):103–22

Patients must be a virtue. Kenna JG. **Hum Exp Toxicol** 1996 Dec;15(12):981–3

Halothane inhibits T cell proliferation and interleukin-2 receptor expression in rats. Hamra JG, et al. **Immunopharmacol Immunotoxicol** 1996 May;18(2):323–36

Interaction of lymphocytes with Kupffer cells from halothane-exposed guinea pigs. Furst SM, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):46–53

Postnatal hepatic and renal consequences of in utero exposure to halothane or its oxidative metabolite trifluoroacetic acid in the rat. Saillenfait AM, et al. **J Appl Toxicol** 1997 Jan-Feb;17(1):1–8

In vivo study of halothane hepatotoxicity in the rat using magnetic resonance imaging and 31P spectroscopy. Noseworthy MD, et al. **J Biochem Biophys Methods** 1997 Mar 27;34(2):107–22

Demonstration of a cellular immune response in halothane-exposed guinea pigs. Furst SM, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):245–55

Late dimethyl sulfoxide administration provides a protective action against chemically induced injury in both the liver and the kidney. Lind RC, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):201–7

Kupffer cells from halothane-exposed guinea pigs carry trifluoroacetylated protein adducts. Furst SM, et al. **Toxicology** 1997 Jun 27;120(2):119–32

HALSTED MASTECTOMY see **MASTECTOMY, RADICAL**

HAMADRYAS see **PAPIO**

HAMARTOMA

Acquired penoscrotal smooth muscle hamartoma. Semerci B, et al. **J Urol** 1997 Sep;158(3 Pt 1):885–6

Mesenchymal hamartoma of the liver: a case report. Alwaidh MH, et al. **Pediatr Radiol** 1997 Mar;27(3):247–9

Unilateral megalencephaly in linear nevus sebaceous syndrome: a neuroradiological case report. Wakabayashi C, et al. **Radiat Med** 1997 Jan-Feb;15(1):65–9

A rare case of hamartoma in the lateral ventricle: case report. Sasaki T, et al. **Surg Neurol** 1997 Jan;47(1):23–7

CHEMICALLY INDUCED

Bile duct hamartoma occurring in association with long-term treatment with danazol. Elmadbouh HM, et al. **Br J Clin Pract** 1997 Apr-May;51(3):179–80

COMPLICATIONS

Acquired zosteriform naevus flammeus: a cutaneous marker of central nervous system angiomatosis [letter] Requena L, et al. **Acta Derm Venereol** 1996 Mar;76(2):165–6

Intrinsic epileptogenesis of hypothalamic hamartomas in gelastic epilepsy. Kuzniecky R, et al. **Ann Neurol** 1997 Jul; 42(1):60–7

Radiological case of the month. Duodenojejunal intussusception secondary to hamartomatous polyps of the duodenum in a 4-year-old boy. Hill JG, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):943–5

Coexistence of multiple perifollicular fibromas and colonic polyp and cancer. Sasai S, et al. **Dermatology** 1996; 192(3):262–3 (11 ref.)

Esophageal white sponge nevus associated with severe dysphagia and odynophagia. Timmer R, et al. **Dig Dis Sci** 1997 Sep;42(9):1914–8

Human epileptogenesis and hypothalamic hamartomas: new lessons from an experiment of nature [editorial] Berkovic SF, et al. **Epilepsia** 1997 Jan;38(1):1–3 (24 ref.)

Epidermal hamartoma presenting as longitudinal pachyleukonychia: a new nail genodermatosis. Moulin G, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):675–7

Cavus deformity of the foot secondary to a neuromuscular choristoma (hamartoma) of the sciatic nerve. A case report. Bassett GS, et al. **J Bone Joint Surg Am** 1997 Sep; 79(9):1398–401

Adenocarcinoid of the liver arising within an area of hamartoma with predominant bile duct component. Papadogiannakis N, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):145–51

Splenic hamartoma associated with thrombocytopenia. Fujii T, et al. **J Gastroenterol** 1997 Feb;32(1):114–8

Hamartoma of the larynx causing neonatal respiratory distress. Linder A. **J Laryngol Otol** 1997 Feb;111(2):166–8

Asymptomatic hypothalamic hamartoma associated with an arachnoid cyst—case report. Isaka T, et al. **Neurol Med Chir (Tokyo)** 1996 Oct;36(10):725–8

Progressive facial hemiatrophy with multiple benign tumors and hamartomas. Derex L, et al. **Neuropediatrics** 1995 Dec; 26(6):306–9

Phakomatosis pigmentovascularis. Van Gysel D, et al. **Pediatr Dermatol** 1996 Jan-Feb;13(1):33–5

Combined hamartoma of the retina and retinal pigment epithelium associated with epiretinal membrane and macular hole. Mason JO 3rd, et al. **Retina** 1997;17(2):160–2

Hypophosphatemic vitamin-D resistant rickets associated

with epidermal nevus syndrome. A case report. Tokatli A, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):247–51

Hypothalamic hamartoma with gelastic epilepsy, precocious puberty and polydactyly. Turanli G, et al. **Turk J Pediatr** 1996 Oct–Dec;38(4):533–6

[Coincidence of pulmonary cryptococcoma in an immunocompetent patients with a chondrohamartoma and chronic tuberculoma—differential diagnostic considerations concerining pulmonary coin lesions] Schulze HJ, et al. **Pneumologie** 1997 Mar;51(3):286–90 (Eng. Abstr.) **(Ger)**

[Pallister–Hall syndrome] Kondoh T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):289–90 (9 ref.) **(Jpn)**

[Gastric adenocarcinoma in hamartomatous polyp in Peutz–Jeghers syndrome] Bujanda L, et al. **Gastroenterol Hepatol** 1996 Nov;19(9):452–5 (Eng. Abstr.) **(Spa)**

CONGENITAL

Fibrous hamartoma of infancy in the hand: a case report. Jebson PJ, et al. **J Hand Surg [Am]** 1997 Jul;22(4):740–2

Multifocal mesenchymal hamartoma of the chest wall in infancy. Troum S, et al. **J Pediatr Surg** 1996 May; 31(5):713–5

Congenital smooth muscle hamartoma presenting as a linear atrophic plaque: case report and review of the literature. Grau–Massanes M, et al. **Pediatr Dermatol** 1996 May–Jun; 13(3):222–5 (28 ref.)

Pigmented plaque with hypertrichosis on the scalp of an infant [clinical conference] Knable A, et al. **Pediatr Dermatol** 1996 Sep–Oct;13(5):431–3

Myoepithelial hamartoma of the ileum causing intussusception in an infant. Yamagami T, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):206–7

DIAGNOSIS

Giant pulmonary hamartoma [letter] Kervancioğlu R, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):573

Autosomal dominant inheritance of hypothalamic hamartoma associated with polysyndactyly: heterogeneity or variable expressivity? Grebe TA, et al. **Am J Med Genet** 1996 Dec 11;66(2):129–37

Multiple, juxtasutural, cranial hyperostoses and cardiac tumor: a new hamartomatous syndrome? Nishimura G, et al. **Am J Med Genet** 1997 Aug 8;71(2):167–71

Epithelioid cells in myoid hamartoma of the breast: a potential diagnostic pitfall for core biopsies [see comments] Garfein CF, et al. **Arch Pathol Lab Med** 1996 Jul; 120(7):676–80. Comment in: Arch Pathol Lab Med 1997 Apr;121(4):354–5.

MRI of multiple biliary hamartomas. Cheung YC, et al. **Br J Radiol** 1997 May;70(833):527–9

Case of the month. July 1996—precocious puberty. Hamilton RL. **Brain Pathol** 1997 Jan;7(1):711–2

Sporadic ampullary hamartoma simulating cancer. Moyana TN, et al. **Can J Surg** 1997 Jun;40(3):227–30

Mesenchymal liver hamartoma in a newborn; case report. Balmer B, et al. **Eur J Pediatr Surg** 1996 Oct;6(5):303–5

Quiz case of the month. Multiple hamartomas of the liver. Tomczak R, et al. **Eur Radiol** 1997;7(4):589–90

Endobronchial hamartoma presenting as massive haemoptysis. Sharkey RA, et al. **Eur Respir J** 1996 Oct; 9(10):2179–80

Bile duct hamartomas: diagnostic problems and treatment. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):994–7

Cystic mesenchymal hamartoma of the liver—a rare condition. Motiwale SS, et al. **Indian J Cancer** 1996 Sep; 33(3):157–60 (15 ref.)

Mesenchymal hamartoma of liver. Gangopadhyay AN, et al. **Indian Pediatr** 1995 Oct;32(10):1109–11

New tactile sensor techniques for localization of pulmonary nodules. Ohtsuka T, et al. **Int Surg** 1997 Jan–Mar;82(1):12–4

Mammary hamartoma: is clinical diagnosis possible? Yeu YM, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):279–80

Biliary hamartomas simulating multiple hepatic metastasis on imaging findings. Iha H, et al. **Kurume Med J** 1996; 43(3):231–5

Vascular lesions in the orbit. Forbes G. **Neuroimaging Clin N Am** 1996 Feb;6(1):113–22 (22 ref.)

Progressive facial hemiatrophy with multiple benign tumors and hamartomas. Derex L, et al. **Neuropediatrics** 1995 Dec; 26(6):306–9

Orbital venous anomalies. A long–standing dilemma [editorial; comment] Garrity JA. **Ophthalmology** 1997 Jun; 104(6):903–4. Comment on: Ophthalmology 1997 Jun;104(6):905–13.

Fibrous hamartoma of infancy. German DS, et al. **Orthopedics** 1996 Mar;19(3):258–60 (10 ref.)

Breast hamartoma with invasive ductal carcinoma. Report of two cases and review of the literature. Anani PA, et al. **Pathol Res Pract** 1996 Dec;192(12):1187–94 (19 ref.)

Imaging interpretation session: 1996. Fibrolipomatous hamartoma of the median nerve and macrodystrophia lipomatosa (MDL). **Radiographics** 1997 Jan•Feb; 17(1):258–61

Splenic hemangiomas and hamartomas: MR imaging characteristics of 28 lesions. Ramani M, et al. **Radiology** 1997 Jan;202(1):166–72

Clinics in diagnostic imaging (18). Multilocular cystic nephroma. Chan KL, et al. **Singapore Med J** 1996 Oct; 37(5):536–40 (10 ref.)

Hepatic mesenchymal hamartoma: a case report and radiological findings. Lai FM, et al. **Singapore Med J** 1996 Apr;37(2):226–8 (19 ref.)

Fibrolipomatous hamartoma: MR imaging findings. De Maeseneer M, et al. **Skeletal Radiol** 1997 Mar;26(3):155–60

[Liver mesenchymal hamartoma in adulthood. Report of a new case] Turlin B, et al. **Ann Pathol** 1996;16(3):192–5 (20 ref.) (Eng. Abstr.) **(Fre)**

[Hamartoma of the pigment epithelium and retina. Apropos of a case] Laghmari A, et al. **J Fr Ophtalmol** 1997; 20(4):297–301 (Eng. Abstr.) **(Fre)**

[Hepatic hamartoma in adults. Apropos of a case documented by MRI] Beal D, et al. **J Radiol** 1996 Dec;77(12):1229–32 (19 ref.) (Eng. Abstr.) **(Fre)**

[A case of pulmonary mesenchymal hamartoma in a 9–year–old child] Bosson N, et al. **J Radiol** 1997 Mar; 78(3):227–9 (Eng. Abstr.) **(Fre)**

[Exudative parafoveal astrocytic hamartoma associated with Bourneville tuberous sclerosis: spontaneous evolution] Sahli O, et al. **Klin Monatsbl Augenheilkd** 1997 May;210(5):332–3 (Eng. Abstr.) **(Fre)**

[Macular combined malformation (hamartoma) of the retina and retinal pigment epithelium] Wiechens B, et al. **Ophthalmologe** 1996 Dec;93(6):724–8 (Eng. Abstr.) **(Ger)**

[Sudden death from lipomatous hamartoma of the heart] Calamida R, et al. **G Ital Cardiol** 1996 Dec;26(12):1421–4 (Eng. Abstr.) **(Ita)**

[A case report of von Meyenburg complex] Mukoubayashi C, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May; 94(5):346–50 **(Jpn)**

[Fibromatous hamartoma in childhood: immunohistochemical study of a new case] Pérez del Río MJ, et al. **An Esp Pediatr** 1996 Aug;45(2):187–8 **(Spa)**

[Cystic hamartoma: prenatal diagnosis and follow–up of newborn infants] Ruiz M F, et al. **Rev Chil Obstet Ginecol** 1995;60(3):211–6 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Topical calcipotriol for treatment of inflammatory linear verrucous epidermal nevus. Zvulunov A, et al. **Arch Dermatol** 1997 May;133(5):567–8

ETIOLOGY

Lens–specific expression of PDGF–A in transgenic mice results in retinal astrocytic hamartomas. Reneker LW, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2455–66

Fibroblast–dependent induction of a murine skin lesion similar to human nevus sebaceus of Jadassohn. Prouty SM, et al. **Lab Invest** 1997 Feb;76(2):179–89

Appearance of multiple progressive nodules in the spleen of a renal graft recipient. Büchler M, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1739–41

GENETICS

Report from the workshop on Pallister–Hall syndrome and related phenotypes. Biesecker LG, et al. **Am J Med Genet** 1996 Oct 2;65(1):76–81

Bronchopulmonary–foregut malformations: a continuum of paracrine hamartomas? Kousseff BG, et al. **Am J Med Genet** 1997 Jan 10;68(1):12–7 (92 ref.)

HMGI(Y) activation by chromosome 6p21 rearrangements in multilineage mesenchymal cells from pulmonary hamartoma [comment] Xiao S, et al. **Am J Pathol** 1997 Mar;150(3):901–10. Comment on: Am J Pathol 1997 Mar;150(3):911–8.

Jadassohn's sebaceous nevus and aphalangia [letter] Midón J, et al. **Ann Plast Surg** 1997 Apr;38(4):438–9

Apparent preferential loss of heterozygosity at TSC2 over TSC1 chromosomal region in tuberous sclerosis hamartomas. Carbonara C, et al. **Genes Chromosomes Cancer** 1996 Jan;15(1):18–25

Hamartoma of the breast with involvement of 6p21 and rearrangement of HMGIY. Dal Cin P, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):90–2

Autosomal dominant primary hyperparathyroidism and jaw tumor syndrome associated with renal hamartomas and cystic kidney disease: linkage to 1q21–q32 and loss of the wild type allele in renal hamartomas. Teh BT, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4204–11

Linkage mapping and phenotypic analysis of autosomal dominant Pallister–Hall syndrome. Kang S, et al. **J Med Genet** 1997 Jun;34(6):441–6

GLI3 frameshift mutations cause autosomal dominant Pallister–Hall syndrome. Kang S, et al. **Nat Genet** 1997 Mar;15(3):266–8

[Eye symptoms in Schimmelpenning–Feuerstein–Mims syndrome, a rare phacomatosis] Mayer UM, et al. **Klin Monatsbl Augenheilkd** 1997 Jun;210(6):370–5 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Loss of cutaneous delayed hypersensitivity reactions in nevus anemicus. Evidence for close concordance of cutaneous delayed hypersensitivity and endothelial E–selectin expression. Mizutani H, et al. **Arch Dermatol** 1997 May; 133(5):617–20

METABOLISM

Folliculosebaceous cystic hamartoma with a neural component: an immunohistochemical study. Toyoda M, et al. **J Dermatol** 1997 Jul;24(7):451–7

Pallister–Hall syndrome. Biesecker LG, et al. **J Med Genet** 1996 Jul;33(7):585–9

Exclusion of candidate loci and cholesterol biosynthetic abnormalities in familial Pallister–Hall syndrome. Biesecker LG, et al. **J Med Genet** 1996 Nov;33(11):947–51

PATHOLOGY

Naevus lipomatosus cutaneous superficialis: overlap with connective tissue naevi [letter] Orteu CH, et al. **Acta Derm Venereol** 1996 May;76(3):243–5

Hamartoma of the triceps surae muscle. Tews DS, et al. **Acta Neuropathol (Berl)** 1997 Jul;94(1):91–4

Folliculosebaceous cystic hamartoma with perifollicular mucinosis. Aloi F, et al. **Am J Dermatopathol** 1996 Feb; 18(1):58–62

Hair follicle nevus: case report and review. Labandeira J, et al. **Am J Dermatopathol** 1996 Feb;18(1):90–3 (27 ref.)

Benign polymorphous mesenchymal tumor (mesenchymal hamartoma) of soft parts. Report of two cases. Michal M, et al. **Am J Dermatopathol** 1997 Jun;19(3):271–5

Nevus sebaceus with apocrine and sebaceous differentiation. Ng WK. **Am J Dermatopathol** 1996 Aug;18(4):420–3

Steatocystoma multiplex with smooth muscle. A hamartoma of the pilosebaceous apparatus. Sabater–Marco V, et al. **Am J Dermatopathol** 1996 Oct;18(5):548–50

Prostate cancer metastatic to a hamartoma [letter; comment] Kuo T. **Am J Surg Pathol** 1996 Mar;20(3):384. Comment on: Am J Surg Pathol 1995 Apr;19(4):472–5.

Neuromuscular choristoma (hamartoma) with smooth and striated muscle component: case report with immunohistochemical and ultrastructural analysis. Van Dorpe J, et al. **Am J Surg Pathol** 1997 Sep;21(9):1090–5

Multiple facial angiofibromas and collagenomas in patients with multiple endocrine neoplasia type 1. Darling TN, et al. **Arch Dermatol** 1997 Jul;133(7):853–7

A solitary warty plaque. Isolated cerebriform collagenoma. Jones MS, et al. **Arch Dermatol** 1997 Jul;133(7):909–10, 912–3

A congenital pink plaque. Basaloid follicular hamartoma. Keough GC, et al. **Arch Dermatol** 1997 Mar;133(3):381–2, 384–5

Unilateral perianogenital papulokeratotic lesion. Inflammatory linear verrucous epidermal nevus (ILVEN). Opršalova K, et al. **Arch Dermatol** 1996 Dec; 132(12):1508–9, 1511–2

Epithelioid cells in myoid hamartoma of the breast [letter; comment] Rosser RJ. **Arch Pathol Lab Med** 1997 Apr; 121(4):354–5. Comment on: Arch Pathol Lab Med 1996 Jul;120(7):676–80.

Linear palmo–plantar porokeratotic hamartoma [letter] Fimiani M, et al. **Br J Dermatol** 1996 Sep;135(3):492–4

Becker's naevus with ipsilateral areolar hypoplasia in three males [letter] Sharma R, et al. **Br J Dermatol** 1997 Mar; 136(3):471–2

Bladder hamartoma. Duvenage GF, et al. **Br J Urol** 1997 Jan;79(1):133–4

Mesenchymal hamartoma of the chest wall [letter; comment] Castellano VM, et al. **Cytopathology** 1997 Jun;8(3):215–7. Comment on: Cytopathology 1996 Jun;7(3):211–7.

Mesenchymal hamartoma of the chest wall in infancy—a case report of this rare entity with cytologic findings [see comments] Szadowska A, et al. **Cytopathology** 1996 Jun; 7(3):211–7 (28 ref.). Comment in: Cytopathology 1997 Jun;8(3):215–7.

Jejunal myoepithelial hamartoma associated with Gardner's syndrome: a case report. Hizawa K, et al. **Endoscopy** 1996 Oct;28(8):727

Exuberant fibroadenomatoid proliferation in a pulmonary mesenchymoma (hamartoma): report of a lesion mimicking a sclerosing pneumocytoma. Grayson W, et al. **Gen Diagn Pathol** 1997 Feb;142(3–4):247–52

Angiomyomatous hamartoma of a cervical lymph node combined with haemangiomatoids and vascular transformation of sinuses. Laeng RH, et al. **Histopathology** 1996 Jul;29(1):80–4

Pitfalls in the diagnosis of ectopic hamartomatous thymoma. Michal M, et al. **Histopathology** 1996 Dec;29(6):549–55 (11 ref.)

Unusual cystadenomatous hamartoma of the lung. Narita T, et al. **Histopathology** 1996 Mar;28(3):285–7

Hamartomas in the setting of chronic epilepsy: a clinicopathologic study of 13 cases. Volk EE, et al. **Hum Pathol** 1997 Feb;28(2):227–32

Congenital mesenchymal hamartoma of liver. Singh ZN, et al. **Indian Pediatr** 1996 May;33(5):415–7

Folliculosebaceous cystic hamartoma [letter; comment] Donati P, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):502. Comment on: J Am Acad Dermatol 1996 Jan;34(1):77–81.

Adenocarcinoid of the liver arising within an area of hamartoma with predominant bile duct component. Papadogiannakis N, et al. **J Clin Gastroenterol** 1996 Sep; 23(2):145–51

Smooth–muscle hamartoma of the tunica dartos of the scrotum: report of a case. Quinn TR, et al. **J Cutan Pathol** 1997 May;24(5):322–6

Multiple basaloid cell hamartoma with alopecia and

autoimmune disease (systemic lupus erythematosus). Akasaka T, et al. **J Dermatol** 1996 Nov;23(11):821–4 (12 ref.)

A hamartoma-like mass on the palate? A possible discussion regarding the components of a pigmented naevus and hyperplastic salivary gland. Harada H, et al. **J Laryngol Otol** 1997 Mar;111(3):296–9 (17 ref.)

Tracheal hamartoma: report of a child with a neck mass. Gross E, et al. **J Pediatr Surg** 1996 Nov;31(11):1584–5

Hypothalamic hamartoma associated with dural arteriovenous fistula of the transverse-sigmoid sinus--case report. Matsuyama T, et al. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):468–71

Ocular manifestations of the organoid nevus syndrome. Shields JA, et al. **Ophthalmology** 1997 Mar;104(3):549–57

Unusual leiomyomatous hamartoma of the hard palate: a case report. Napier SS, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):305–7

Accessory scrotum or perineal collision-hamartoma. A case report to illustrate a misnomer. Amann G, et al. **Pathol Res Pract** 1996 Oct;192(10):1039–43; discussion 1044

Large cell carcinoma of the lung with unilateral hamartoma. Altiner M, et al. **Pathologica** 1996 Aug;88(4):311–2

Subcutaneous tumor in an infant [clinical conference] Calobrisi SD, et al. **Pediatr Dermatol** 1996 Mar–Apr; 13(2):171–2

Eccrine angiomatous hamartoma: report of three patients. Smith C, et al. **Pediatr Dermatol** 1996 Mar–Apr; 13(2):139–42

Brain and eye pathology in an infant with Down syndrome and tuberous sclerosis. Jay V. **Pediatr Neurol** 1996 Jul; 15(1):57–9

Cellular composition of the angiofibromas in tuberous sclerosis. Benjamin DR. **Pediatr Pathol Lab Med** 1996 Nov–Dec;16(6):893–9

Hepatic vascular malformation. Dickman PS, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):155–62

Right-sided high origin of diaphragm associated with accessory lobe of liver, lobulated right atrial appendage, and ipsilateral phrenic nerve hamartoma: a case report. Kasznica J, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug; 17(4):653–62

Morphopathological and clinical diagnosis aspects of a bilateral dysembryoplasic renal tumor associated with Bourneville's tuberous sclerosis. Petrescu A, et al. **Rom J Morphol Embryol** 1996 Jul–Dec;42(3–4):203–12

Myoepithelial hamartoma of the small bowel: report of a case. Tanaka N, et al. **Surg Today** 1996;26(12):1010–3 (12 ref.)

Ophthalmic features of the organoid nevus syndrome. Shields JA, et al. **Trans Am Ophthalmol Soc** 1996;94:65–86; discussion 86–7 (46 ref.)

[Hamartoma of Brunner's glands. Report of two cases] Lavoine E, et al. **Ann Pathol** 1996;16(3):196–9 (Eng. Abstr.) **(Fre)**

[Anatomo-clinical conference: lymphoma and mediastinal mass (clinical conference)] Trenschel R, et al. **Rev Med Brux** 1997 Jun;18(3):125–8 (Eng. Abstr.) **(Fre)**

[Tumor of the follicular infundibulum. Study of determining follicular differentiation] Schirren CG, et al. **Pathologe** 1996 Nov;17(6):440–5 (Eng. Abstr.) **(Ger)**

[Placentoid malformation of the lung as differential diagnosis of localized emphysema] Theile A, et al. **Pneumologie** 1997 Jun;51(6):550–4 (Eng. Abstr.) **(Ger)**

[A case of multiple pulmonary leiomyomatous hamartoma] Ohno K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):723–8 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Clinicopathological study of pulmonary hamartoma with special reference to 6 patients who also had another tumor] Abe Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34(12):1354–8 (Eng. Abstr.) **(Jpn)**

[A congenital hamartoma of smooth muscle: an atypical presentation] Sánchez Miralles E, et al. **An Esp Pediatr** 1996 May;44(5):488–90 (15 ref.) **(Spa)**

[Tonsillar hamartoma] Hellin Meseguer D, et al. **An Otorrinolaringol Ibero Am** 1996;23(1):73–9 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Thin-section oblique CT with 25 degrees cranially tilted images. Evaluation of pulmonary tumors adjacent to the interlobar fissures. Uchisako H, et al. **Acta Radiol** 1997 Mar; 38(2):246–9

Aunt Minnie's corner. Pulmonary hamartoma. Ford KL 3rd. **J Comput Assist Tomogr** 1997 Jul–Aug;21(4):680

Radiological features of a symptomatic splenic hamartoma. Thompson SE, et al. **Pediatr Radiol** 1996 Sep;26(9):657–60

Chest wall hamartoma in an adult: an unusual chest wall tumor. Donahoo JS, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):110–1

RADIONUCLIDE IMAGING

99mTc-DTPA-HSA uptake in a case of splenic hamartoma. Ohta H, et al. **Ann Nucl Med** 1996 Nov;10(4):449–51

SURGERY

Hamartoma, a rare cause of a prepontine mass. Gaposchkin CG, et al. **Acta Neurochir (Wien)** 1997;139(1):90–1

Port-wine stains. An assessment of 5 years of treatment. Orten SS, et al. **Arch Otolaryngol Head Neck Surg** 1996 Nov;122(11):1174–9

Neuromuscular hamartoma of the internal auditory canal. Gersdorff MC, et al. **Eur Arch Otorhinolaryngol** 1996; 253(7):440–2

Bile duct hamartomas: diagnostic problems and treatment. Principe A, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):994–7

Mesenchymal hamartoma of liver. Gangopadhyay AN, et al. **Indian Pediatr** 1995 Oct;32(10):1109–11

Are copper vapour and frequency doubled Nd:YAG lasers superior to the argon laser for portwine stains at pulse widths of 30–50 milliseconds? Sheehan-Dare RA, et al. **Lasers Surg Med** 1996;18(1):46–51

Laparoscopic splenectomy for splenic hamartoma. Yoshizumi T, et al. **Surg Endosc** 1997 Aug;11(8):848–9

Laparoscopically treated duodenal hamartoma of Brunner's glands. Adell-Carceller R, et al. **Surg Laparosc Endosc** 1997 Aug;7(4):298–300

Liver hamartoma in an adult: report of a rare case. Bilge O, et al. **Surg Today** 1996;26(7):513–6

[Fibrous hamartoma in childhood--a report of a rare case from practice] Mainkhard K, et al. **Khirurgiia (Sofiia)** 1996; 49(3):51–2 (9 ref.) **(Bul)**

[A case of hamartoma originated from the chest wall] Kani H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul; 44(7):1008–11 (Eng. Abstr.) **(Jpn)**

[Successful treatment of giant hepatic hamartoma complicated by suppuration] Vishnevskiĭ VA, et al. **Khirurgiia (Mosk)** 1996;(2):113–4 **(Rus)**

[A combination of a liver tumor and destructive appendicitis in a child] Litovka VK, et al. **Klin Khir** 1996;(7):53 **(Rus)**

[Incessant ventricular tachycardia and myocardial hamartomas in childhood: long-term remission after surgical treatment] Benito Bartolomé F, et al. **Rev Esp Cardiol** 1997 Mar;50(3):205–7 (Eng. Abstr.) **(Spa)**

THERAPY

[The Pallister-Hall syndrome--a rare case and an example of the differentiated approach to the treatment of hormonally inactive hypothalamic hamartomas] Ozerov SS, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Jan-Mar;(1):40–2 (6 ref.) **(Rus)**

ULTRASONOGRAPHY

Ultrasonography of breast hamartomas. Black J, et al. **Australas Radiol** 1996 Nov;40(4):412–5

The endoscopic ultrasonographic appearance of Brunner's gland hamartoma. Weisselberg B, et al. **Gastrointest Endosc** 1997 Aug;46(2):176–8

A rare case of an antenatally diagnosed tumor of the neck--a hamartoma of the thyroid gland. Zachariou Z, et al. **J Pediatr Surg** 1996 Sep;31(9):1294–6

Prenatal evaluation of mesenchymal hamartoma of the liver: gray scale and power Doppler sonographic imaging. Bejvan SM, et al. **J Ultrasound Med** 1997 Mar;16(3):227–9

Prenatal diagnosis of a chest wall hamartoma and sternal cleft. Rose NC, et al. **Ultrasound Obstet Gynecol** 1996 Jun; 7(6):453–5

Hepatic mesenchymal hamartoma: a pediatric tumor that may be diagnosed prenatally. Tovbin J, et al. **Ultrasound Obstet Gynecol** 1997 Jul;10(1):63–5

VETERINARY

Vascular hamartomas of the dorsal carpal region in three young thoroughbred horses. Colbourne CM, et al. **Aust Vet J** 1997 Jan;75(1):20–3

Congenital polyalveolar lobe in three foals. Hong CB. **J Comp Pathol** 1996 Jul;115(1):85–8

HAMARTOMA SYNDROME, MULTIPLE

COMPLICATIONS

Trichilemmomal carcinoma in a patient with Cowden's disease (multiple hamartoma syndrome). O'Hare AM, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):1021–3

ETIOLOGY

[Modern concepts of the pathogenesis of phakomatoses] Arkhipov BA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):110–6 (58 ref.) **(Rus)**

GENETICS

Deletion of PTEN in a patient with Bannayan-Riley-Ruvalcaba syndrome suggests allelism with Cowden disease. Arch EM, et al. **Am J Med Genet** 1997 Sep 5;71(4):489–93

Cowden disease. Report of a family and review. Longy M, et al. **Ann Genet** 1996;39(1):35–42 (37 ref.)

Allele loss in colorectal cancer at the Cowden disease/juvenile polyposis locus on 10q. Frayling IM, et al. **Cancer Genet Cytogenet** 1997 Aug;97(1):64–9

Differential loss of heterozygosity in the region of the Cowden locus within 10q22–23 in follicular thyroid adenomas and carcinomas. Marsh DJ, et al. **Cancer Res** 1997 Feb 1;57(3):500–3

Germline mutations of the PTEN gene in Cowden disease, an inherited breast and thyroid cancer syndrome. Liaw D, et al. **Nat Genet** 1997 May;16(1):64–7

Germline mutations in PTEN are present in Bannayan-Zonana syndrome [letter] Marsh DJ, et al. **Nat Genet** 1997 Aug;16(4):333–4

Loss of heterozygosity in human breast carcinomas in the ataxia telangiectasia, Cowden disease and BRCA1 gene regions. Kerangueven F, et al. **Oncogene** 1997 Jan 23; 14(3):339–47

PATHOLOGY

Diffuse esophageal glycogenic acanthosis: an endoscopic marker of Cowden's disease. Kay PS, et al. **Am J Gastroenterol** 1997 Jun;92(6):1038–40 (25 ref.)

Multiple hamartoma syndrome presenting with oral lesions. Porter S, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):295–301

Peutz-Jeghers syndrome and the hamartomatous polyposis syndromes: radiologic-pathologic correlation. Cho GJ, et al. **Radiographics** 1997 May-Jun;17(3):785–91 (16 ref.)

RADIOGRAPHY

Peutz-Jeghers syndrome and the hamartomatous polyposis syndromes: radiologic-pathologic correlation. Cho GJ, et al. **Radiographics** 1997 May-Jun;17(3):785–91 (16 ref.)

HAMMAN-RICH SYNDROME see **PULMONARY FIBROSIS**

HAMSTER SPUMAVIRUS see **SPUMAVIRUS**

HAMSTERS

Initial characterization of hamsters with spontaneous hypertension. Thomas CL, et al. **Hypertension** 1997 Aug; 30(2 Pt 1):301–4

Tumours of the nervous system. Cardesa A, et al. **IARC Sci Publ** 1996;(126):427–65 (109 ref.)

CLASSIFICATION

[Morphological differences between two karyotypes of spiny hamsters of the Neacomys genus from the Peruvian Amazon (Rodentia, Mammalia)] Malygin VM, et al. **Dokl Akad Nauk** 1996 Dec;351(5):712–4 **(Rus)**

GENETICS

Phase-shifting effects of a serotonin agonist in tau mutant hamsters. Colecchia EF, et al. **Brain Res** 1996 Aug 19; 730(1–2):227–31

A novel hamster prion protein mRNA contains an extra exon: increased expression in scrapie. Li G, et al. **Brain Res** 1997 Mar 21;751(2):265–74

Characterization of the hamster CYP11B2 gene regulatory regions. Coulombe N, et al. **Endocr Res** 1996 Nov; 22(4):653–61

Structure of the rRNA genes in the hamster sperm nucleus. Nadel B, et al. **J Androl** 1995 Nov-Dec;16(6):517–22

The promoter of an androgen dependent gene in the hamster flank organ. Aoki H, et al. **J Dermatol Sci** 1997 May; 15(1):36–43

Localization and regulation of expression of the FAR-17A gene in the hamster flank organs. Puy LA, et al. **J Invest Dermatol** 1996 Jul;107(1):44–50

The defect in the AT-like hamster cell mutants is complemented by mouse chromosome 9 but not by any of the human chromosomes. Jongmans W, et al. **Mutat Res** 1996 Oct 18;364(2):91–102

The human CSB (ERCC6) gene corrects the transcription-coupled repair defect in the CHO cell mutant UV61. Orren DK, et al. **Nucleic Acids Res** 1996 Sep 1; 24(17):3317–22

GROWTH & DEVELOPMENT

Selective neurite outgrowth of cultured cortical neurons on specific regions of brain cryostat sections. Halloran MC, et al. **J Comp Neurol** 1996 Jul 15;371(1):72–84

METABOLISM

Environmental control of the seasonal variations in the daily pattern of melatonin synthesis in the European hamster, Cricetus cricetus. Vivien-Roels B, et al. **Gen Comp Endocrinol** 1997 Apr;106(1):85–94

PHYSIOLOGY

Diurnal and seasonal changes in sympathetic signal transduction in cardiac ventricles of European hamsters. Pleschka K, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R304–9

Adrenergic signal transduction in the brainstem of euthermic and hibernating European hamsters. Nürnberger F, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:705–11

Synchronous assessment of sperm motility and fertilizing ability in the hamster following treatment with alpha-chlorohydrin. Slott VL, et al. **J Androl** 1995 Nov-Dec;16(6):523–35

Timing of torpor bouts during hibernation in European hamsters (Cricetus cricetus L.). Wassmer T, et al.

HAMSTERS

J Comp Physiol [B] 1997 May;167(4):270–9
'Hamster-like' cycles in testicular size in the absence of gonadotrophin secretion in HPD rams exposed to long-term changes in photoperiod and treatment with melatonin. Lincoln GA, et al. **J Neuroendocrinol** 1996 Nov; 8(11):855–66

HAMSTERS, ARMENIAN see **CRICETULUS**

HAMSTERS, CHINESE see **CRICETULUS**

HAMSTERS, DJUNGARIAN see **PHODOPUS**

HAMSTERS, GOLDEN see **MESOCRICETUS**

HAMSTERS, GOLDEN SYRIAN see **MESOCRICETUS**

HAMSTERS, GREY see **CRICETULUS**

HAMSTERS, SIBERIAN see **PHODOPUS**

HAMSTERS, SYRIAN see **MESOCRICETUS**

HAND

Ultrasound diagnosis of soft-tissue tumours in the hand and forearm. A prospective study. Höglund M. **Acta Radiol** 1997 Jul;38(4 Pt 1):508–13
Nested case-control study of hand and wrist work-related musculoskeletal disorders in carpenters. Atterbury MR, et al. **Am J Ind Med** 1996 Dec;30(6):695–701
Deep infection of the hand with Mycobacterium avium-intracellulare: two case reports. Darrow M, et al. **Am J Orthop** 1995 Dec;24(12):914–7
Compartment syndrome of the hand. Etiology, diagnosis, and treatment. Dellaero DT, et al. **Am J Orthop** 1996 Jun; 25(6):404–8 (22 ref.)
Vascular calcification as a source of hand pain and weakness in a patient with end-stage renal failure. Naranja RJ Jr, et al. **Am J Orthop** 1997 Jun;26(6):426–7
Lesions of the bones of the hands and feet. Ostrowski ML, et al. **Am J Surg Pathol** 1997 Jun;21(6):676–90
Surgical management of primary cutaneous melanomas of the hands and feet. Tseng JF, et al. **Ann Surg** 1997 May; 225(5):544–50; discussion 550–3
Intraoperative monitoring of skin temperature changes of hands before, during, and after endoscopic thoracic sympathectomy: using infrared thermograph and thermometer for measurement. Chuang TY, et al. **Arch Phys Med Rehabil** 1997 Jan;78(1):85–8
Implanted functional electrical stimulation hand system in adolescents with spinal injuries: an evaluation. Mulcahey MJ, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):597–607
The bionic glove: an electrical stimulator garment that provides controlled grasp and hand opening in quadriplegia. Prochazka A, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):608–14
The abductor digiti minimi flap: a case report and review. Bloom RJ, et al. **Aust N Z J Surg** 1997 Aug;67(8):582–3
Use of magnetic resonance imaging on a large lipoma of the hand: a case report. Goodman HJ, et al. **Aust N Z J Surg** 1997 Jul;67(7):489–91
Epidermoid carcinoma of the hand: report of a case. Morales P, et al. **Bol Asoc Med P R** 1996 Jan–Mar;88(1–3):16–9
Double-blind trial of botulinum A toxin for the treatment of focal hyperhidrosis of the palms. Schnider P, et al. **Br J Dermatol** 1997 Apr;136(4):548–52
Long-latency reflexes of hand muscles in idiopathic focal dystonia and their modification by botulinum toxin. Naumann M, et al. **Brain** 1997 Mar;120 (Pt 3):409–16
The ipsilateral cerebellar hemisphere is overactive during hand movements in akinetic parkinsonian patients. Rascol O, et al. **Brain** 1997 Jan;120 (Pt 1):103–10
Localization of the motor hand area to a knob on the precentral gyrus. A new landmark. Yousry TA, et al. **Brain** 1997 Jan;120 (Pt 1):141–57
Ewing's sarcoma of the hand: a case report. Cook MA, et al. **Bull Hosp Jt Dis** 1996;55(2):75–7 (12 ref.)
The presence of mucosal human papillomavirus in Bowen's disease of the hands. Mitsuishi T, et al. **Cancer** 1997 May 15;79(10):1911–7
Chondrosarcoma of small bones of the hands and feet. Ogose A, et al. **Cancer** 1997 Jul 1;80(1):50–9
Proceedings of the 7th International Conference on Hand-Arm Vibration. Prague, May 9–12, 1995. **Cent Eur J Public Health** 1995;3 Suppl:1–141
Operating vibrating tools and prevalence of subjective complaints in vibration syndrome. Mirbod SM, et al. **Cent Eur J Public Health** 1995;3 Suppl:97–102
Hand infections in patients with diabetes. Kour AK, et al. **Clin Orthop** 1996 Oct;(331):238–44
Enlarging dorsal hand mass in a 64-year-old man. Magid D, et al. **Clin Orthop** 1997 Jan;(334):380–2, 388
Cumulative trauma disorders. Higgs PE, et al. **Clin Plast Surg** 1996 Jul;23(3):421–33 (34 ref.)
Update on imaging techniques of the wrist and hand. Metz VM, et al. **Clin Plast Surg** 1996 Jul;23(3):369–84 (60 ref.)
Palmar fasciitis and polyarthritis associated with ovarian carcinoma in a young patient. A case report and review of the literature. Vinker S, et al. **Clin Rheumatol** 1996 Sep; 15(5):495–7 (12 ref.)
Influence of temperature on irritation in the hand/forearm immersion test. Clarys P, et al. **Contact Dermatitis** 1997 May;36(5):240–3
Multiple acral syringomata with uniform involvement of the hands and feet. Garcia C, et al. **Cutis** 1997 Apr;59(4):213–4, 216
Epidermolysis bullosa dystrophica of Hallopeau-Siemens and squamous-cell carcinoma: a case report. Van Rengen A, et al. **Dermatology** 1996;192(4):418–9
Sympathetic skin responses of the hand in normal subjects: shorter latency at distal phalanx. Kanzato N, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 105(2):165–70
The influence of gloves during maximum volitional torque exertion of supination. Shih YC, et al. **Ergonomics** 1997 Apr;40(4):465–75
The hand as a teaching tool defining the terminology of motion of the foot. Sarrafian SK. **Foot Ankle Int** 1997 Jan; 18(1):59
An approach to complex rheumatoid hand and wrist problems. Blair WF. **Hand Clin** 1996 Aug;12(3):615–28 (16 ref.)
Rheumatoid flexor tenosynovitis and rupture. Ferlic DC. **Hand Clin** 1996 Aug;12(3):561–72 (43 ref.)
The painful hand. Koman LA, et al. **Hand Clin** 1996 Nov; 12(4):757–64 (34 ref.)
Medical aspects of rheumatoid arthritis. Diagnosis and treatment. Massarotti EM. **Hand Clin** 1996 Aug; 12(3):463–75 (68 ref.)
Surgery of systemic lupus erythematosus arthritis of the hand. Nalebuff EA. **Hand Clin** 1996 Aug;12(3):591–602 (23 ref.)
Surgery of psoriatic arthritis of the hand. Nalebuff EA. **Hand Clin** 1996 Aug;12(3):603–14 (16 ref.)
Management of neuromas in the hand. Nath RK, et al. **Hand Clin** 1996 Nov;12(4):745–56 (35 ref.)
Juvenile rheumatoid arthritis. Simmons BP, et al. **Hand Clin** 1996 Aug;12(3):573–89 (66 ref.)
Extensor tendon problems in rheumatoid arthritis. Wilson RL, et al. **Hand Clin** 1996 Aug;12(3):551–9 (30 ref.)
Simulators of hand infections. Kann SE, et al. **Instr Course Lect** 1997;46:69–82 (169 ref.)
Combined effects of hand-arm vibration and noise on temporary threshold shifts of hearing in healthy subjects. Zhu S, et al. **Int Arch Occup Environ Health** 1997; 69(6):433–6
Metastatic squamous cell carcinoma arising in Bowen's disease of the palm. González-Pérez R, et al. **J Am Acad Dermatol** 1997 Apr;36(4):635–6
Variations in the motor nerve supply of the thenar and hypothenar muscles of the hand. Ajmani ML. **J Anat** 1996 Aug;189 (Pt 1):145–50
Compartment syndromes of the hand. Ouellette EA, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1515–22
Leiomyoma of the hand in a child who has the human immunodeficiency virus. Yang SS, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1904–6
Bilateral chronic compartment syndrome in the forearm and the hand. Söderberg TA. **J Bone Joint Surg Br** 1996 Sep; 78(5):780–2
Regional eruptive neurofibromas. Betti R, et al. **J Dermatol** 1997 Mar;24(3):198–201
Magnets. Richards JW Jr. **J Fam Pract** 1996 Sep;43(3):307
Leg manifestation in alien hand syndrome. Chan JL, et al. **J Formos Med Assoc** 1996 Apr;95(4):342–6
Limb salvage surgery and adjuvant radiotherapy for soft tissue sarcomas of the forearm and hand. Bray PW, et al. **J Hand Surg [Am]** 1997 May;22(3):495–503
Malignant eccrine poroma of the hand: a case report. DaSilva MF, et al. **J Hand Surg [Am]** 1997 May;22(3):511–4
Congenital primitive neuroectodermal tumor of the hand: a case report. Daw JL, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):743–6
Fibrous hamartoma of infancy in the hand: a case report. Jebson PJ, et al. **J Hand Surg [Am]** 1997 Jul;22(4):740–2
Eccrine carcinoma of the hand: a case report. Katzman BM, et al. **J Hand Surg [Am]** 1997 Jul;22(4):737–9 (12 ref.)
Tendon transfers and functional electrical stimulation for restoration of hand function in spinal cord injury. Keith MW, et al. **J Hand Surg [Am]** 1996 Jan;21(1):89–99
Osteomyelitis of the tubular bones of the hand. Reilly KE, et al. **J Hand Surg [Am]** 1997 Jul;22(4):644–9
Suction injuries in children leading to acute compartment syndrome of the interosseous muscles of the hand: case reports. Shin AY, et al. **J Hand Surg [Am]** 1996 Jul; 21(4):675–8
Metastatic tumours of the hand. Report of six additional cases. Castelló JR, et al. **J Hand Surg [Br]** 1996 Aug; 21(4):547–50
Hand infections in the diabetic patient. Pinzur MS, et al. **J Hand Surg [Br]** 1997 Feb;22(1):133–4
A small cavernous vascular malformation in the hand mimicking a glomus tumour. al-Qattan MM. **J Hand Surg [Br]** 1996 Oct;21(5):693–4
Giant cell tumours of the hand. Sanjay BK, et al. **J Hand Surg [Br]** 1996 Oct;21(5):683–7
Chondrosarcoma of the hand arising in a young patient with multiple hereditary exostoses. Saunders C, et al. **J Hand Surg [Br]** 1997 Apr;22(2):237–42 (38 ref.)
Development and evaluation of a precision forearm and hand volumeter and measuring cylinder. Boland R, et al. **J Hand Ther** 1996 Oct–Dec;9(4):349–58
Body and soul [editorial] Brown PW. **J Hand Ther** 1996 Jul–Sep;9(3):201–2
Pain management programs in hand therapy: a literature review and appraisal. Doleys DM, et al. **J Hand Ther** 1997 Apr–Jun;10(2):175–82 (72 ref.)
Eleventh Nathalie Barr Lecture. The source of our strength. Evans RB. **J Hand Ther** 1997 Jan–Mar;10(1):14–23
The effects of neuromuscular stimulation-induced muscle contraction versus elevation on hand edema in CVA patients. Faghri PD. **J Hand Ther** 1997 Jan–Mar; 10(1):29–34
Human performance: an appropriate measure of instrument reliability? Fess EE. **J Hand Ther** 1997 Jan–Mar;10(1):46–7
The integration of pain sciences into clinical practice. Gifford LS, et al. **J Hand Ther** 1997 Apr–Jun;10(2):86–95 (89 ref.)
1996 presidential address. Bachelor of Science in Physical Therapy. Lee VH. **J Hand Ther** 1996 Oct–Dec;9(4):293–7
Practice analysis of hand therapy. Roth LP, et al. **J Hand Ther** 1996 Jul–Sep;9(3):203–12
The hand therapy certification examination: results of the first five years. Roth LP, et al. **J Hand Ther** 1996 Jul–Sep; 9(3):213–7
Common afflictions of the hand. Jabaley ME. **J Miss State Med Assoc** 1997 Jun;38(6):207–9 (0 ref.)
Cheiro-oral syndrome due to severe stenosis of the middle cerebral artery [letter] Nabavi DG, et al. **J Neurol** 1996 Jun;243(6):483–4
Orientation landmarks of endoscopic transaxillary T-2 sympathectomy for palmar hyperhidrosis [see comments] Chiou TS, et al. **J Neurosurg** 1996 Aug;85(2):310–5. Comment in: J Neurosurg 1997 Apr;86(4):738–9.
Tremor caused by ipsilateral chronic subdural hematoma. Case illustration. Lin JJ, et al. **J Neurosurg** 1997 Sep; 87(3):474
Soft tissue sarcoma of the hand in children: clinical outcome and management. Gross E, et al. **J Pediatr Surg** 1997 May; 32(5):698–702
Recommendations for a core set of outcome measures for future phase III clinical trials in knee, hip, and hand osteoarthritis. Consensus development at OMERACT III. Bellamy N, et al. **J Rheumatol** 1997 Apr;24(4):799–802 (6 ref.)
Münchausen's syndrome simulating reflex sympathetic dystrophy. Chevalier X, et al. **J Rheumatol** 1996 Jun; 23(6):1111–2
The evolutionary origins of osteoarthritis [letter] Rothschild BM. **J Rheumatol** 1996 Jun;23(6):1116–7
Sense of effort and the effects of fatigue in the tongue and hand. Solomon NP, et al. **J Speech Hear Res** 1996 Feb; 39(1):114–25
Yellow palms with disulfiram [letter] Santonastaso M, et al. **Lancet** 1997 Jul 26;350(9073):266
Medicine, Dürer, and the praying hands. Sharma P. **Lancet** 1997 May 17;349(9063):1470–1
A randomized, double-blind, placebo-controlled study to evaluate botulinum toxin type A in essential hand tremor. Jankovic J, et al. **Mov Disord** 1996 May;11(3):250–6
Seeing where your hands are [letter] di Pellegrino G, et al. **Nature** 1997 Aug 21;388(6644):730
Effects of hemispheric side of injury, age at injury, and presence of seizure disorder on functional ear and hand asymmetries in hemiplegic children. Isaacs E, et al. **Neuropsychologia** 1996 Feb;34(2):127–37
Obesity and osteoarthritis of the hands in women. Hochberg MC, et al. **Osteoarthritis Cartilage** 1993 Apr;1(2):129–35
Ultrasound velocity changes at the proximal phalanxes of the hand in pre-, peri- and postmenopausal women. Ventura V, et al. **Osteoporos Int** 1996;6(5):368–75
Reactive bone and cartilage forming processes of the hands and feet [letter] Ishida T, et al. **Pathol Int** 1995 Dec; 45(12):975–6
Congenital palmar nodule in an infant. Congenital fibrosarcoma. Tay YK, et al. **Pediatr Dermatol** 1997 May–Jun;14(3):241–3
Using the hand to estimate the surface area of a burn in children. Nagel TR, et al. **Pediatr Emerg Care** 1997 Aug; 13(4):254–5
Transverse carpal ligament: its effect on flexor tendon excursion, morphologic changes of the carpal canal, and on pinch and grip strengths after open carpal tunnel release. Netscher D, et al. **Plast Reconstr Surg** 1997 Sep; 100(3):636–42
Compartment syndrome of the upper extremity following cutaneous laser surgery. Rheingold LM, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1418–20
Giant vascular leiomyoma in the hand. Kataoka M, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Mar; 31(1):91–3
Hand osteoarthritis in the elderly. Application of clinical criteria. Aspelund G, et al. **Scand J Rheumatol** 1996; 25(1):34–6
Maffucci's syndrome associated with spindle cell hemangioendothelioma. Hisaoka M, et al. **Skeletal Radiol** 1997 Mar;26(3):191–4
Sarcoidosis of hands. Rivera-Sanfeliz G, et al. **Skeletal Radiol** 1996 Nov;25(8):786–8
Hand and foot sepsis in Libyan diabetic patients [see comments] Bosseri S, et al. **Trop Doct** 1997 Oct;27(4):232–3 . Comment in: Trop Doct 1997 Oct;27(4):194–5. Comment in: Trop Doct 1997 Oct;27(4):195.
Hand and foot sepsis in Libyan diabetic patients [editorial; comment] Lester FT. **Trop Doct** 1997 Oct;27(4):195. Comment on: Trop Doct 1997 Oct;27(4):232–3.
[Repeated rupture of the extensor tendons of the hand due

to fluoroquinolones. Apropos of a case] Levadoux M, et al. **Ann Chir Main Memb Super** 1997;16(2):130–3 (Eng. Abstr.) **(Fre)**

[Rupture of the flexor tendon of the hand caused by tuberculosis] Dumontier C, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):668–71 (Eng. Abstr.) **(Fre)**

[Involuntary motor activity or alien hand syndrome following ischemic lesion sparing medial frontal cortex] Pageot N, et al. **Rev Neurol (Paris)** 1997 Jun;153(5):339–43 (Eng. Abstr.) **(Fre)**

[The hand, treasure and honor of mankind] Koch HA. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):4–9 **(Ger)**

[Synovial chondromatosis of the hand] Oursin C, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Oct;165(4):421–3 **(Ger)**

[Benign schwannoma of the hand. Considerations on a clinical case] de Nuntiis M, et al. **Minerva Chir** 1996 Jun; 51(6):489–91 (Eng. Abstr.) **(Ita)**

[Ultrasonic diagnosis of De Quervain's stenosing tenosynovitis] Trentanni C, et al. **Radiol Med (Torino)** 1997 Mar;93(3):194–8 (Eng. Abstr.) **(Ita)**

[Importance of instructing anesthesiologists in handwashing against bacterial contamination] Fukada T, et al. **Masui** 1997 Apr;46(4):552–5 (Eng. Abstr.) **(Jpn)**

[Bacterial contamination of anesthesiologists' hands and the efficacy of handwashing] Fukada T, et al. **Masui** 1996 Aug; 45(8):1026–30 (Eng. Abstr.) **(Jpn)**

[The alien hand sign] Tanaka Y. **No To Shinkei** 1996 Mar; 48(3):229–38 (38 ref.) **(Jpn)**

[Small hand muscle atrophy as an initial sign in HTLV-I associated myelopathy] Ishida C, et al. **Rinsho Shinkeigaku** 1997 Jan;37(1):44–6 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES see HAND DEFORMITIES, CONGENITAL

ANATOMY & HISTOLOGY

Precision grips, hand morphology, and tools. Marzke MW. **Am J Phys Anthropol** 1997 Jan;102(1):91–110 (68 ref.)

Video image analysis of hands: development of an 'anatomic index' as a potential outcome measure in rheumatoid arthritis. Highton J, et al. **Br J Rheumatol** 1996 Dec; 35(12):1274–80

How big is a hand? Rossiter ND, et al. **Burns** 1996 May; 22(3):230–1

Transposition of flexor pollicis brevis muscle for reconstruction of thumb opposition. Anatomical study and clinical application. Zhu W, et al. **Chin Med J (Engl)** 1996 Jun;109(6):437–40

Dupuytren's disease and the relationship between the transverse and longitudinal fibers of the palmar fascia: a dissection study. Holland AJ, et al. **Clin Anat** 1997; 10(2):97–103

Comparison between estimates of hand volume and hand strengths with sex and age with and without anthropometric data in healthy working people. Chau N, et al. **Eur J Epidemiol** 1997 Apr;13(3):309–16

Functional anatomy of the extensor tendons of the digits. von Schroeder HP, et al. **Hand Clin** 1997 Feb;13(1):51–62 (48 ref.)

The abductores pollicis muscles. Clinical considerations based on electromyographical and anatomical studies. Brandsma JW, et al. **J Hand Ther** 1996 Jul–Sep;9(3):218–22

Imaging of the wrist and hand. Hodge JC, et al. **J South Orthop Assoc** 1996 Winter;5(4):292–304 (31 ref.)

Laser reflectance imaging of human organs and comparison with perfusion images. Shanthi S, et al. **Med Biol Eng Comput** 1997 May;35(3):253–8

Images in clinical medicine. A little survivor. Levitt MA, et al. **N Engl J Med** 1997 Oct 23;337(17):1208

The accessory tendon of the extensor indicis muscle. Cavdar S, et al. **Okajimas Folia Anat Jpn** 1996 Aug;73(2–3):139–42

Tracing the identity of the first toolmakers [news] Gibbons A. **Science** 1997 Apr 4;276(5309):32

BLOOD SUPPLY

Peripheral gangrene in African children: a clinical report of twelve cases. Noyez JF, et al. **Acta Orthop Belg** 1996 Dec; 62(4):207–11

Distal dorsal forearm flap. Syed SA, et al. **Ann Plast Surg** 1997 Apr;38(4):396–403

Treatment of a degloved hand injury by arteriovenous anastomosis: a case report. Takeuchi M, et al. **Ann Plast Surg** 1997 Aug;39(2):174–7

Successful hand revascularization with urokinase following a crush injury. Wheatley MJ, et al. **Ann Plast Surg** 1997 Jul;39(1):94–6

Upper extremity arterial bypass distal to the wrist. Dalman RL. **Ann Vasc Surg** 1997 Sep;11(5):550–7 (55 ref.)

Bisoprolol attenuates noradrenaline- and phenylephrine-evoked venoconstriction in man in vivo. Abdelmawla AH, et al. **Br J Clin Pharmacol** 1997 Jul; 44(1):61–8

Haemodynamic effects of adrenomedullin in human resistance and capacitance vessels. Cockcroft JR, et al. **Br J Clin Pharmacol** 1997 Jul;44(1):57–60

Anatomical basis for a fasciocutaneous flap from the hypothenar eminence of the hand. Omokawa S, et al. **Br J Plast Surg** 1996 Dec;49(8):559–63

The Allen test. A study of inter-observer reliability. Vu-Rose T, et al. **Bull Hosp Jt Dis** 1997;56(2):99–101

Revascularization of the ischaemic hand using in situ veins. Ristow AV, et al. **Cardiovasc Surg** 1996 Aug;4(4):466–9

Ischaemia of the hand after radial artery monitoring. Sfeir R, et al. **Cardiovasc Surg** 1996 Aug;4(4):456–8

Painful vein overdistension in migraine patients: no relationship with serotoninergic parameters. Panconesi A, et al. **Cephalalgia** 1996 Feb;16(1):37–40

Chloroquine-induced venodilation in human hand veins. Abiose AK, et al. **Clin Pharmacol Ther** 1997 Jun; 61(6):677–83

Management of vasospastic disorders of the hand. Troum SJ, et al. **Clin Plast Surg** 1997 Jan;24(1):121–32 (50 ref.)

Abnormal vasoreaction of peripheral arteries to cold stimulus of both hands in diabetics. Fushimi H, et al. **Diabetes Res Clin Pract** 1996 Apr;32(1–2):55–9

Microembolectomy in the treatment of arterial occlusion of the hand: report of two cases. Hudson DA, et al. **J Hand Surg [Am]** 1996 Sep;21(5):884–7

Traumatic aneurysm of a common digital artery. Cromheecke M, et al. **J Hand Surg [Br]** 1997 Jun;22(3):416–8

Applause-induced ulnar artery thrombosis: a case report. O'Connor TA, et al. **J Hand Surg [Br]** 1996 Nov; 21(6):1099–100

Rubber band constriction of the wrist. Rasool MN, et al. **J Hand Surg [Br]** 1996 Dec;21(6):806–7

Venous pumps of the hand. Their clinical importance. Simons P, et al. **J Hand Surg [Br]** 1996 Oct;21(5):595–9

Digital nerve penetration by a digital artery in a patient with neurovascular symptoms: a case report. Spinner RJ, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1101–3

Management of pulseless pink hand in pediatric supracondylar fractures of humerus. Sabharwal S, et al. **J Pediatr Orthop** 1997 May–Jun;17(3):303–10

Cumulative and noncumulative dose-response curves to noradrenaline on the dorsal hand vein. Abdelmawla AH, et al. **J Pharmacol Toxicol Methods** 1996 Oct;36(2):77–80

Ischemia of the throwing hand in major league baseball pitchers: embolic occlusion from aneurysms of axillary artery branches. Kee ST, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):979–82

Hypothenar hammer syndrome in sports. Müller LP, et al. **Knee Surg Sports Traumatol Arthrosc** 1996;4(3):167–70 (23 ref.)

True aneurysms of the palmar arch of the hand: a report of two cases. Rieck B, et al. **Microsurgery** 1996;17(2):102–5

The role of pain from veins for the formation of perivenous edema in humans. Holthusen H, et al. **Pain** 1996 Dec; 68(2–3):395–400

Recurrent digital ischemia due to thrombosis of the persistent median artery. Beran SJ, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1169–71

Efficacy of magnetic resonance angiography in the evaluation of vascular malformations of the hand. Disa JJ, et al. **Plast Reconstr Surg** 1997 Jan;99(1):136–44; discussion 145–7

Vascular and neural anatomy of the thenar area of the hand: its surgical applications. Omokawa S, et al. **Plast Reconstr Surg** 1997 Jan;99(1):116–21

Thermography of hands after a radial forearm flap has been raised. Suominen S, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Dec; 30(4):307–14

Complex variation of the superficial palmar arch--case report. Onderoglu S, et al. **Surg Radiol Anat** 1997; 19(2):123–5

Microfilament system in the microvascular endothelium of the palmar fascia affected by mechanical stress applied from outside. Brandes G, et al. **Virchows Arch** 1996 Oct; 429(2–3):165–72

[Arteriovenous dysplasia of the hand. A case report and attempts at conservative therapy] Bahm J, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):39–42 (Eng. Abstr.) **(Ger)**

[Superinfection with multi-resistant Staphylococcus aureus of the hand caused by shunt vein occlusion in a dialysis patient] Hoch J, et al. **Zentralbl Chir** 1996;121 Suppl:79–81 **(Ger)**

[Hand ischemia due to "steal syndrome" in vascular access for hemodialysis] Porcellini M, et al. **G Chir** 1997 Jan–Feb; 18(1–2):27–30 (Eng. Abstr.) **(Ita)**

[Evaluation on rebound effects when the forearm was exposed to cold air] Kakitsuba N, et al. **Sangyo Eiseigaku Zasshi** 1996 Sep;38(5):211–6 (Eng. Abstr.) **(Jpn)**

[Reactions of hand vessels to indirect cooling] Raigorodskaia TG, et al. **Fiziol Cheloveka** 1996 Jan–Feb;22(1):138–9 **(Rus)**

[Significance of vascular structure and regional hemodynamics in the surgical treatment of hand dysgenesis in children] Tiazhelkov AP. **Khirurgiia (Mosk)** 1996; (4):53–8 (Eng. Abstr.) **(Rus)**

[Late ischemia and carpal tunnel syndrome secondary to catheterization of the radial artery] Sánchez-García ML, et al. **Rev Esp Anestesiol Reanim** 1997 May;44(5):201–3 (Eng. Abstr.) **(Spa)**

GROWTH & DEVELOPMENT

Skeletal maturation of wrist and hand ossification centers in normal Spanish boys and girls: a study using the Greulich-Pyle method. Jiménez-Castellanos J, et al. **Acta Anat (Basel)** 1996;155(3):206–11

Comparative analysis of weight gain, hand/wrist maturation, and dental emergence rates in chimpanzees aged 0–24 months from varying captive environments. Marzke MW, et al. **Am J Phys Anthropol** 1996 Jan;99(1):175–90

INJURIES see HAND INJURIES

INNERVATION

Surgical prognosis in carpal tunnel syndrome: usefulness of a preoperative neurophysiological assessment. Padua L, et al. **Acta Neurol Scand** 1996 Nov;94(5):343–6

Neuromas and gaps of sensory nerves of the hand: management using vein conduits. Malizos KN, et al. **Am J Orthop** 1997 Jul;26(7):481–5

Ulnar nerve lesion in the palm: report of an unusual case. On AY, et al. **Arch Phys Med Rehabil** 1997 Apr;78(4):440–1

Peripheral afferents with common function cluster in the median nerve and somatotopically innervate the human palm. Ekedahl R, et al. **Brain Res Bull** 1997;42(5):367–76

Dissociation of cortical areas responsible for evoking excitatory and inhibitory responses in the small hand muscles. Lewko JP, et al. **Brain Topogr** 1996 Summer; 8(4):397–405

Modulation of corticospinal influence over hand muscles during gripping tasks in man and monkey. Lemon RN, et al. **Can J Physiol Pharmacol** 1996 Apr;74(4):547–58 (67 ref.)

Evidence for direct connections between the hand region of the supplementary motor area and cervical motoneurons in the macaque monkey. Rouiller EM, et al. **Eur J Neurosci** 1996 May;8(5):1055–9

Morphometric studies of the muscular branch of the median nerve. Olave E, et al. **J Anat** 1996 Oct;189 (Pt 2):445–9

Initial cortical reactions to injury of the median and radial nerves to the hands of adult primates. Silva AC, et al. **J Comp Neurol** 1996 Mar 18;366(4):700–16

Anatomy of the palmar cutaneous branch of the median nerve: clinical significance. DaSilva MF, et al. **J Hand Surg [Am]** 1996 Jul;21(4):639–43

Restoration of sensibility in the hand after complete brachial plexus injury. Ihara K, et al. **J Hand Surg [Am]** 1996 May; 21(3):381–6

The cutaneous innervation of the palm: an anatomic study of the ulnar and median nerves. Martin CH, et al. **J Hand Surg [Am]** 1996 Jul;21(4):634–8

Innervated radial thenar flap for sensory reconstruction of fingers. Omokawa S, et al. **J Hand Surg [Am]** 1996 May; 21(3):373–80

Intrinsic muscle flaps: the treatment of painful neuromas in continuity. Rose J, et al. **J Hand Surg [Am]** 1996 Jul; 21(4):671–4

Neurologic injury from axillary block anesthesia. Stark RH. **J Hand Surg [Am]** 1996 May;21(3):391–6

Avoidance of transection of the palmar cutaneous branch of the median nerve in carpal tunnel release. Watchmaker GP, et al. **J Hand Surg [Am]** 1996 Jul;21(4):644–50

The EFFUL (Evaluation of Function in the Flail Upper Limb) system. A ranking score system to measure improvement achieved by surgical reconstruction and rehabilitation. Eggers IM, et al. **J Hand Surg [Br]** 1997 Jun;22(3):388–94

Cold intolerance following peripheral nerve injury. Natural history and factors predicting severity of symptoms. Irwin MS, et al. **J Hand Surg [Br]** 1997 Jun;22(3):308–16

Anatomical classification of sites of compression of the palmar cutaneous branch of the median nerve. al-Qattan MM. **J Hand Surg [Br]** 1997 Feb;22(1):48–9

Compression neuropathy of the palmar cutaneous branch of the median nerve by the antebrachial fascia. Semer N, et al. **J Hand Surg [Br]** 1996 Oct;21(5):666–7

Anterior interosseous nerve palsy. A review of 16 cases. Sood MK, et al. **J Hand Surg [Br]** 1997 Feb;22(1):64–8

Digital nerve penetration by a digital artery in a patient with neurovascular symptoms: a case report. Spinner RJ, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1101–3

Case study of a five-stage sensory reeducation program. Nakada M, et al. **J Hand Ther** 1997 Jul–Sep;10(3):232–9

Direct and indirect corticospinal control of arm and hand motoneurons in the squirrel monkey (Saimiri sciureus). Maier MA, et al. **J Neurophysiol** 1997 Aug;78(2):721–33

Parietal neurons related to memory-guided hand manipulation. Murata A, et al. **J Neurophysiol** 1996 May; 75(5):2180–6

Systematic changes in directional tuning of motor cortex cell activity with hand location in the workspace during generation of static isometric forces in constant spatial directions. Sergio LE, et al. **J Neurophysiol** 1997 Aug; 78(2):1170–4

Hand/face border as a limiting boundary in the body representation in monkey somatosensory cortex. Manger PR, et al. **J Neurosci** 1997 Aug 15;17(16):6338–51

Movement illusions evoked by ensemble cutaneous input from the dorsum of the human hand. Collins DF, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):857–71

Functional sensibility of the hand in leprosy patients. van Brakel WH, et al. **Lepr Rev** 1997 Mar;68(1):25–37

Machine gunner's recovery [letter; comment] Sonna LA, et al. **Mil Med** 1996 May;161(5):A4. Comment on: Mil Med 1995 Jul;160(7):364–6.

Idiopathic generalized myokymia (Isaacs' syndrome) with hand posturing resembling dystonia. Tuite PJ, et al. **Mov Disord** 1996 Jul;11(4):448–9

Anomalous superficial radial sensory innervation of the ulnar dorsum of the hand: a cause of "paradoxical" preservation of ulnar sensory function. McCluskey LF. **Muscle Nerve** 1996 Jul;19(7):923–5

All ulnar motor hand without forearm communication [letter; comment] Nobrega JA, et al. **Muscle Nerve** 1997 Jul; 20(7):908–9. Comment on: Muscle Nerve 1995 Mar;18(3):309–13.

Simultaneous recording of slow brain potentials and transcranial magnetic stimulation of hand area in human motor cortex. Häusler UH, et al. **Neurosci Lett** 1995 Nov 24;200(3):183–6

Focal brain stimulation in healthy humans: motor maps changes following partial hand sensory deprivation. Rossini PM, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):191–5

Complications in patients with palmar hyperhidrosis treated with transthoracic endoscopic sympathectomy. Lai YT, et al. **Neurosurgery** 1997 Jul;41(1):110–3; discussion 113–5

False localizing signs in upper cervical spinal cord compression [see comments] Sonstein WJ, et al. **Neurosurgery** 1996 Mar;38(3):445–8; discussion 448–9. Comment in: Neurosurgery 1997 Jan;40(1):217–8.

Complete excision of the lower trunk and C8 and T1 nerve roots in a patient with Pancoast tumor with a resulting fully functional hand. Carp S, et al. **Physiother Res Int** 1997;2(1):51–5

Vascular and neural anatomy of the thenar area of the hand: its surgical applications. Omokawa S, et al. **Plast Reconstr Surg** 1997 Jan;99(1):116–21

Progressive changes in cutaneous trigger zones for sensation referred to a phantom hand: a case report and review with implications for cortical reorganization. Doetsch GS. **Somatosens Mot Res** 1997;14(1):6–16

Cutaneous representations of the hand and other body parts in the cuneate nucleus of a primate, and some relationships to previously described cortical representations. Xu J, et al. **Somatosens Mot Res** 1996;13(3–4):187–97

Transthoracic video endoscopic electrocautery of sympathetic ganglia for hyperhidrosis palmaris: special reference to localization of the first and second ribs. Wong CW. **Surg Neurol** 1997 Mar;47(3):224–9; discussion 229–30

[A significant increase in superficial sensation, a number of years after a peripheral neurologic lesion, using transcutaneous vibratory stimulation] Spicher C, et al. **Ann Chir Main Memb Super** 1997;16(2):124–9 (Eng. Abstr.) **(Fre)**

[The effect of cold on the afferent sensory conduction of the hand] Gerardy-Sacré F, et al. **J Belge Med Phys Rehabil** 1980;3(1):62–72 **(Fre)**

[Post-traumatic focal dystonia after contralateral thalamic lesion] Tränkle R, et al. **Nervenarzt** 1997 Jun;68(6):521–4 (17 ref.) (Eng. Abstr.) **(Ger)**

[Pure motor monoparesis confined to the left hand] Nishikawa T, et al. **No To Shinkei** 1996 Sep;48(9):862–3 **(Jpn)**

[Cheiro-oral syndrome following a cortical brain infarction in the precentral gyrus and at the base of the central sulcus. A case report] Shiga K, et al. **Rinsho Shinkeigaku** 1996 Sep;36(9):1104–6 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

The effect of rings on microbial load of health care workers' hands. Salisbury DM, et al. **Am J Infect Control** 1997 Feb; 25(1):24–7

Tuberculous infection of the hand and wrist. Visuthikosol V, et al. **Ann Plast Surg** 1996 Jul;37(1):55–9 (23 ref.)

Effect of surgical hand scrub time on subsequent bacterial growth. Wheelock SM, et al. **AORN J** 1997 Jun; 65(6):1087–92; 1094–8

Bacterial colonization and yeast carriage on the hands of nurses [letter] Findik D, et al. **J Hosp Infect** 1996 Nov; 34(3):235–7

An evaluation of five protocols for surgical handwashing in relation to skin condition and microbial counts. Pereira LJ, et al. **J Hosp Infect** 1997 May;36(1):49–65

Ciprofloxacin-resistant Staphylococcus epidermidis and hands [letter; comment] Burnie JP, et al. **Lancet** 1997 Mar 1;349(9052):649. Comment on: Lancet 1997 Jan 18;349(9046):167–9.

Distribution of bacteria on hands and the effectiveness of brief and thorough decontamination procedures using non-medicated soap. Chamberlain AN, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):565–75

PATHOLOGY

Association between osteoarthritis of the hand and knee in a population of skeletons from London. Waldron HA. **Ann Rheum Dis** 1997 Feb;56(2):116–8

Woody hands in a patient with pancreatic carcinoma: a variant of cancer-associated fasciitis—panniculitis syndrome. Cox NH, et al. **Br J Dermatol** 1996 Dec; 135(6):995–8

Late-onset rheumatoid arthritis: is pitting oedema of the hands at onset a good prognostic indicator? Bhakta BB, et al. **Br J Rheumatol** 1997 Feb;36(2):214–9

Clinicopathological study of acral melanoma in situ in 44 Japanese patients. Kato T, et al. **Dermatology** 1996; 193(3):192–7

Palmar papillomatous lesions reminiscent of epidermal nevus in a case of focal dermal hypoplasia: a nosological consideration. van der Steen PH, et al. **Dermatology** 1996; 193(2):147–8

Fatal hand sepsis in Tanzanian diabetic patients. Archibald LK, et al. **Diabet Med** 1997 Jul;14(7):607–10

Epithelioid sarcoma masquerading as perforating granuloma annulare [letter] Lopez-Rios F, et al. **Histopathology** 1997 Jul;31(1):102–3

Florid reactive periostitis. Craver RD, et al. **Hum Pathol** 1997 Jun;28(6):745–7

Primary hyperpigmented palmar lesion: a rare presentation of borderline tuberculoid leprosy. Grover S, et al. **Indian J Lepr** 1997 Apr–Jun;69(2):191–3

Magnetic resonance imaging of glomus tumour in the hand. Shih TT, et al. **Int Orthop** 1996;20(6):342–5

Generalised motor neuron disease as an unusual manifestation of Borrelia burgdorferi infection [letter] Hemmer B, et al. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):257–8

Radiographic hand osteoarthritis: incidence, patterns, and influence of pre-existing disease in a population based sample. Chaisson CE, et al. **J Rheumatol** 1997 Jul; 24(7):1337–43

Magnetic resonance imaging of tophaceous gout in the hands and wrists. Popp JD, et al. **Semin Arthritis Rheum** 1996 Feb;25(4):282–9

[Discovery of a human hand?] Bertelmann K, et al. **Arch Kriminol** 1996 Sep–Oct;198(3–4):79–82 (Eng. Abstr.) **(Ger)**

[Post-traumatic gaseous gangrene in childhood: a case report] Morcate JJ, et al. **Cir Pediatr** 1996 Jan;9(1):42–3 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Ranges of joint motion of the adult hand. Skvařilová B, et al. **Acta Chir Plast** 1996;38(2):67–71

Brachial arterial blood flow during static handgrip exercise of short duration at varying intensities studied by a Doppler ultrasound method. Kagaya A, et al. **Acta Physiol Scand** 1997 Jul;160(3):257–65

Effects of object characteristics on female grasp patterns. Fuller Y, et al. **Am J Occup Ther** 1997 Jul–Aug;51(7):481–7; discussion 489

A dynamic model of the hand with application in functional neuromuscular stimulation. Esteki A, et al. **Ann Biomed Eng** 1997 May–Jun;25(3):440–51

Skeletal maturity of the hand and wrist of healthy Argentinian children aged 4–12 years, assessed by the TWII method. Lejarraga H, et al. **Ann Hum Biol** 1997 May–Jun; 24(3):257–61

Validation of cutaneous pressure threshold measurements for the evaluation of hand function. Dellon ES, et al. **Ann Plast Surg** 1997 May;38(5):485–92

Quantitative measurement of the effects of caffeine and propranolol on surgeon hand tremor. Humayun MU, et al. **Arch Ophthalmol** 1997 Mar;115(3):371–4

The hand in the cold, performance and risk. Havenith G, et al. **Arctic Med Res** 1995;54 Suppl 2:37–47 (48 ref.)

Mechanism and computer simulation of a new robot hand for potential use as an artificial hand. Lin LR, et al. **Artif Organs** 1997 Jan;21(1):59–69

Kinematic analysis of movement imitation in apraxia. Hermsdörfer J, et al. **Brain** 1996 Oct;119 (Pt 5):1575–86

A simulation study of the electromyographic volley at initiation of rapid isometric contractions in the first dorsal interosseous muscle. Yamazaki Y, et al. **Brain Res Bull** 1997;43(6):537–42

Event-related desynchronisation of central beta-rhythms during brisk and slow self-paced finger movements of dominant and nondominant hand. Stancák A Jr, et al. **Brain Res Cogn Brain Res** 1996 Oct;4(3):171–83

Response of large superficial dorsal hand veins to locally infused nitroglycerine in young, normal subjects. Lui AS, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1034–8

The influence of individual factors on the absorption of vibration energy in the hand and arm. Burström L. **Cent Eur J Public Health** 1996 Feb;4(1):50–2

Comparison of different methods for vibration measurements on hand-held vibrating tools. Burström L, et al. **Cent Eur J Public Health** 1996 Feb;4(1):76–8

Measurement and evaluation of coupling forces when using hand-held power tools. Kaulbars U. **Cent Eur J Public Health** 1996 Feb;4(1):57–8

Derivation of mean impedance curves as a basis for mechanical models of the human hand-arm system. Kinne J, et al. **Cent Eur J Public Health** 1996 Feb;4(1):53–6

The growth and recovery of vibrotactile TTs caused by hand-transmitted repetitive shocks of various waveforms. Maeda S, et al. **Cent Eur J Public Health** 1995;3 Suppl:57–61

Consideration of grip and push forces for the assessment of vibration exposure. Riedel S. **Cent Eur J Public Health** 1995;3 Suppl:139–41

Human response to shock-type vibration on hand. Yonekawa Y, et al. **Cent Eur J Public Health** 1996 Feb;4(1):73–5

Manual laterality in spider monkeys (Ateles geoffroyi) solving visually and tactually guided food-reaching tasks. Laska M. **Cortex** 1996 Dec;32(4):717–26

Hand function in low-risk preterm infants: its relation to muscle power regulation. Plantinga Y, et al. **Dev Med Child Neurol** 1997 Jan;39(1):6–11

Facilitation of motor evoked potentials in hand extensor muscles of stroke patients: correlation to the level of voluntary contraction. Hauptmann B, et al. **Electroencephalogr Clin Neurophysiol** 1996 Oct; 101(5):387–94

On-line EEG classification during externally-paced hand movements using a neural network-based classifier. Pfurtscheller G, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 99(5):416–25

Interhemispheric facilitation and inhibition studied in man with double magnetic stimulation. Salerno A, et al. **Electroencephalogr Clin Neurophysiol** 1996 Oct; 101(5):395–403

Task-dependence of muscle afferent monosynaptic inputs to human extensor carpi radialis motoneurones. Schmied A, et al. **Electroencephalogr Clin Neurophysiol** 1997 Jun; 105(3):220–34

Hand and finger skin temperatures in convective and contact cold exposure. Chen F, et al. **Eur J Appl Physiol** 1996; 72(4):372–9

The influence of task resistance on the characteristics of maximal one- and two-handed lifting exertions in men and women. Fothergill DM, et al. **Eur J Appl Physiol** 1996; 72(5–6):430–9

Influences of handgrip on shoulder muscle activity. Sporrong H, et al. **Eur J Appl Physiol** 1995;71(6):485–92

Lateral specificity in resistance training: the effect of bilateral and unilateral training. Taniguchi Y. **Eur J Appl Physiol** 1997;75(2):144–50

Influence of two different light intensities during daytime on endurance performance of handgrip exercise. Zhang P, et al. **Eur J Appl Physiol** 1996;74(4):318–21

Haptic localization and the internal representation of the hand in space. Dassonville P. **Exp Brain Res** 1995;106(3):434–48

Viewing the hand prior to movement improves accuracy of pointing performed toward the unseen contralateral hand. Desmurget M, et al. **Exp Brain Res** 1997 Jun;115(1):180–6

Integrated control of hand transport and orientation during prehension movements. Desmurget M, et al. **Exp Brain Res** 1996 Jul;110(2):265–78

Anticipatory and sequential motor control in piano playing. Engel KC, et al. **Exp Brain Res** 1997 Feb;113(2):189–99

Tactile input of the hand and the control of reaching to grasp movements. Gentilucci M, et al. **Exp Brain Res** 1997 Mar; 114(1):130–7

Discrete and continuous planning of hand movements and isometric force trajectories. Ghez C, et al. **Exp Brain Res** 1997 Jun;115(2):217–33

Localization of grasp representations in humans by positron emission tomography. 2. Observation compared with imagination. Grafton ST, et al. **Exp Brain Res** 1996 Nov; 112(1):103–11

The contribution of transcortical pathways to long-latency stretch and tactile reflexes in human hand muscles. Macefield VG, et al. **Exp Brain Res** 1996 Feb;108(1):147–54

Differential roles of monkey striatum in learning of sequential hand movement. Miyachi S, et al. **Exp Brain Res** 1997 Jun; 115(1):1–5

The role of the left somatosensory cortex in human hand movement. Okuda B, et al. **Exp Brain Res** 1995; 106(3):493–8

The spatiotemporal structure of control variables during catching. Polman RC, et al. **Exp Brain Res** 1996 Jun; 109(3):483–94

Effects of spatial attention on directional manual and ocular responses. Sheliga BM, et al. **Exp Brain Res** 1997 Apr; 114(2):339–51

Symmetry, broken symmetry, and handedness in bimanual coordination dynamics. Treffner PJ, et al. **Exp Brain Res** 1996;107(3):463–78

Common organization for unimanual and bimanual reach-to-grasp tasks. Tresilian JR, et al. **Exp Brain Res** 1997 Jun;115(2):283–99

The influence of biodynamic factors on the mechanical impedance of the hand and arm. Burström L. **Int Arch Occup Environ Health** 1997;69(6):437–46

Temporary threshold shift of vibratory sensation induced by a vibrating handle and its gripping force. Nishiyama K, et al. **Int Arch Occup Environ Health** 1996;69(1):45–52

Limb laterality and motor proficiency in children. Iteya M, et al. **Int J Neurosci** 1995 Dec;83(3–4):275–9

Age differences in hemispheric activation to sensory condition. Shapiro DM, et al. **Int J Neurosci** 1996 Nov; 87(3–4):249–56

Foot and hand area mu rhythms. Pfurtscheller G, et al. **Int J Psychophysiol** 1997 Jun;26(1–3):121–35 (43 ref.)

Association between eye and hand dominance and hitting, fielding and pitching skill among players of the Southern Baseball League. Classe JG, et al. **J Am Optom Assoc** 1996 Feb;67(2):81–6

Age-related changes in the twitch contractile properties of human thenar motor units. Doherty TJ, et al. **J Appl Physiol** 1997 Jan;82(1):93–101

Measuring force transfers in the deep flexors of the musician's hand: theoretical analysis, clinical examples. Leijnse JN. **J Biomech** 1997 Sep;30(9):873–82

Flexibility and repeatability of finger movements during typing: analysis of multiple degrees of freedom. Soechting JF, et al. **J Comput Neurosci** 1997 Jan;4(1):29–46

The abductores pollicis muscles. Clinical considerations based on electromyographical and anatomical studies. Brandsma JW, et al. **J Hand Ther** 1996 Jul–Sep;9(3):218–22

Reliability of the manual dynamic mode of the Baltimore Therapeutic Equipment Work Simulator. Coleman EF, et al. **J Hand Ther** 1996 Jul–Sep;9(3):223–37

Principles of conservative management for a non-orthotic tenodesis grip in tetraplegics. Harvey L. **J Hand Ther** 1996 Jul-Sep;9(3):238-42

The cooling effects of electroacupuncture on the skin temperature of the hand. Landry MD, et al. **J Hand Ther** 1996 Oct-Dec;9(4):359-66

Training of muscle excursion after tendon transfer. Schreuders TA, et al. **J Hand Ther** 1996 Jul-Sep;9(3):243-5

Corticomotoneuronal contribution to the fractionation of muscle activity during precision grip in the monkey. Bennett KM, et al. **J Neurophysiol** 1996 May;75(5):1826-42

Combination of hand and gaze signals during reaching: activity in parietal area 7 m of the monkey. Ferraina S, et al. **J Neurophysiol** 1997 Feb;77(2):1034-8

Visually guided saccade versus eye-hand reach: contrasting neuronal activity in the cortical supplementary and frontal eye fields. Mushiake H, et al. **J Neurophysiol** 1996 May; 75(5):2187-91

Reaching movements with similar hand paths but different arm orientations. I. Activity of individual cells in motor cortex. Scott SH, et al. **J Neurophysiol** 1997 Feb; 77(2):826-52

The role of internal models in motion planning and control: evidence from grip force adjustments during movements of hand-held loads. Flanagan JR, et al. **J Neurosci** 1997 Feb 15;17(4):1519-28

Effects of arterial perfusion pressure on force production in working human hand muscles. Fitzpatrick R, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):885-91

Interhemispheric differences of hand muscle representation in human motor cortex. Cicinelli P, et al. **Muscle Nerve** 1997 May;20(5):535-42

Is left always right? Directional deviations in visual line bisection as a function of hand and initial scanning direction. Brodie EE, et al. **Neuropsychologia** 1996 May; 34(5):467-70

Kinematics of goal-directed arm movements in neglect: control of hand in space. Karnath HO, et al. **Neuropsychologia** 1997 Apr;35(4):435-44

Parallel and serial processing of haptic information in man: effects of parietal lesions on sensorimotor hand function. Knecht S, et al. **Neuropsychologia** 1996 Jul;34(7):669-87

Disownership of left hand and objects related to it in a patient with right brain damage. Aglioti S, et al. **Neuroreport** 1996 Dec 20;8(1):293-6

On orienting the hand to reach and grasp an object. Gentilucci M, et al. **Neuroreport** 1996 Jan 31;7(2):589-92

Eye-hand interactions during goal-directed pointing movements. van Donkelaar P. **Neuroreport** 1997 Jul 7; 8(9-10):2139-42

A primate model for studying focal dystonia and repetitive strain injury: effects on the primary somatosensory cortex. Byl NN, et al. **Phys Ther** 1997 Mar;77(3):269-84

Palm sensation [letter] Peled IJ. **Plast Reconstr Surg** 1996 Dec;98(7):1321-2

Persistent mirror movements: functional MR imaging of the hand motor cortex. Leinsinger GL, et al. **Radiology** 1997 May;203(2):545-52

The TINS Lecture. The parietal association cortex in depth perception and visual control of hand action. Sakata H, et al. **Trends Neurosci** 1997 Aug;20(8):350-7 (75 ref.)

[Recovery of the "instrument-hand" and the "communication-hand" in the hemiparetic child] Pisaturo C, et al. **Minerva Pediatr** 1997 Jun;49(6):261-8 (Eng. Abstr.) **(Ita)**

[The group specificity of the sweat and fat excretions from the skin of the hands] Smetanina NI, et al. **Sud Med Ekspert** 1996 Jul-Sep;39(3):35-6 (Eng. Abstr.) **(Rus)**

[A software-hardware package for studying the coordination of human eye, head and hand movements] Baziian BKh, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):396-9 **(Rus)**

[Control of the hand and its grip. Memory and touch perception are crucial factors] Olsson T. **Lakartidningen** 1997 Sep 10;94(37):3169-70, 3173 **(Swe)**

PHYSIOPATHOLOGY

Autosomal recessive paraparesis with amyotrophy of hands and feet and white matter lesions. Malandrini A, et al. **Acta Neurol Scand** 1996 Jul;94(1):60-2

Computer-assisted quantitative sensorimotor testing in patients with carpal and cubital tunnel syndromes. Dellon AL, et al. **Ann Plast Surg** 1997 May;38(5):493-502

Hematogenous osteomyelitis of the hand skeleton in adults after dental maxillary infections. Germann G, et al. **Ann Plast Surg** 1996 Jul;37(1):106-10

The use of intra-arterial urokinase in the management of hand ischemia secondary to palmar and digital arterial occlusion. Wheatley MJ, et al. **Ann Plast Surg** 1996 Oct;37(4):356-62; discussion 362-3

Results of open carpal tunnel release: a comprehensive, retrospective study of 188 hands. Thurston A, et al. **Aust N Z J Surg** 1997 May;67(5):283-8 (56 ref.)

The bilateral reach-to-grasp movement of Parkinson's disease subjects. Castiello U, et al. **Brain** 1997 Apr;120 (Pt 4):593-604

Tactile agnosia. Casuistic evidence and theoretical remarks on modality-specific meaning representations and sensorimotor integration. Platz T. **Brain** 1996 Oct;119 (Pt 5):1565-74

The impact of injury and disease on the sensory function of the hand: neurophysiology and clinical implications. Mackel R. **Bull Soc Sci Med Grand Duche Luxemb** 1996; 133(1):31-41

Localizing muscles for botulinum toxin treatment of focal hand dystonia. Geenen C, et al. **Can J Neurol Sci** 1996 Aug;23(3):194-7

Botulinum toxin in the treatment of writer's cramp. Turjanski N, et al. **Clin Neuropharmacol** 1996 Aug;19(4):314-20

Alien hand syndrome of the dominant hand and ideomotor apraxia of the nondominant hand. Kischka U, et al. **Eur Neurol** 1996;36(1):39-42

The alien grasp reflex. Silva MT, et al. **Eur Neurol** 1996; 36(1):55-6

Protective sensibility--its monofilament nylon threshold equivalents in leprosy patients. Malaviya GN, et al. **Indian J Lepr** 1997 Apr-Jun;69(2):149-58

Neurophysiological classification of carpal tunnel syndrome: assessment of 600 symptomatic hands. Padua L, et al. **Ital J Neurol Sci** 1997 Jun;18(3):145-50

Altered response in cutaneous sympathetic outflow to mental and thermal stimuli in primary palmoplantar hyperhidrosis. Iwase S, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2-3):65-73

Anatomical factors predisposing to focal dystonia in the musician's hand--principles, theoretical examples, clinical significance. Leijnse JN. **J Biomech** 1997 Jul;30(7):659-69

Side-to-side confrontational strength-testing for weakness of the intrinsic muscles of the hand. Buschbacher R. **J Bone Joint Surg Am** 1997 Mar;79(3):401-5

Sensory function assessment. A pilot comparison study of touch pressure threshold with texture and tactile discrimination. King PM. **J Hand Ther** 1997 Jan-Mar; 10(1):24-8

High cervical myelopathy presenting with the numb clumsy hand syndrome. Romano JG, et al. **J Neurol Sci** 1996 Sep 1;140(1-2):137-40

Sensory dysfunction associated with repetitive strain injuries of tendinitis and focal hand dystonia: a comparative study. Byl N, et al. **J Orthop Sports Phys Ther** 1996 Apr; 23(4):234-44

Development and validation of a rheumatoid hand functional disability scale that assesses functional handicap. Duruöz MT, et al. **J Rheumatol** 1996 Jul;23(7):1167-72

Hand tremor in patients with spasmodic torticollis. Deuschl G, et al. **Mov Disord** 1997 Jul;12(4):547-52

The "cold hands sign" in multiple system atrophy. Klein C, et al. **Mov Disord** 1997 Jul;12(4):514-8

Assessment of hand function in a patient with chronic sensory demyelinating neuropathy. Thonnard JL, et al. **Neurology** 1997 Jul;49(1):253-7

Transient left-sided alien hand with callosal and unilateral fronto-mesial damage: a case study. Papagno C, et al. **Neuropsychologia** 1995 Dec;33(12):1703-9

Use of neuromuscular electrical stimulation and [corrected] dorsal wrist splint to improve the hand function of a child with spastic hemiparesis [published erratum appears in Phys Ther 1997 Aug;77(8):859] Carmick J. **Phys Ther** 1997 Jun; 77(6):661-71

The functional value of electrical muscle stimulation for the rehabilitation of the hand in stroke patients. Hummelsheim H, et al. **Scand J Rehabil Med** 1997 Mar;29(1):3-10

Short-term effect of hand-arm vibration exposure on tactile sensitivity and manual skill. Thonnard JL, et al. **Scand J Work Environ Health** 1997 Jun;23(3):193-8

Pure motor hand weakness. Lewis RA. **Semin Neurol** 1996 Mar;16(1):75-81 (48 ref.)

Neurographic assessment of intramedullary motoneurone lesions in cervical spinal cord injury: consequences for hand function. Curt A, et al. **Spinal Cord** 1996 Jun;34(6):326-32

Performance of the unaffected hand after stroke [letter; comment] Okuda B, et al. **Stroke** 1997 Feb;28(2):464. Comment on: Stroke 1996 Sep;27(9):1564-70.

Effects of hand-used on unilateral spatial neglect: a case study. Fujii T, et al. **Tohoku J Exp Med** 1996 Sep; 180(1):73-81

RADIATION EFFECTS

Accidental radiation injury to the hand: anatomical and physiological considerations. Berger ME, et al. **Health Phys** 1997 Mar;72(3):343-8

Radiation dosimetry at CT fluoroscopy: physician's hand dose and development of needle holders. Kato R, et al. **Radiology** 1996 Nov;201(2):576-8

[Radiation burden to the hands of surgeons in intramedullary nailing] Müller LP, et al. **Unfallchirurgie** 1996 Dec; 22(6):253-9 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Bone age in children of diverse ethnicity [see comments] Ontell FK, et al. **AJR Am J Roentgenol** 1996 Dec; 167(6):1395-8. Comment in: AJR Am J Roentgenol 1997 Aug;169(2):597-8.

Screen-film versus computed radiography imaging of the hand: a direct comparison. Swee RG, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):539-42

Radiographic damage in large joints in early rheumatoid arthritis: relationship with radiographic damage in hands and feet, disease activity, and physical disability. Kuper HH, et al. **Br J Rheumatol** 1997 Aug;36(8):855-60

Massive subcutaneous and intraosseous fat necrosis associated with pancreatitis. Natural evolution of the radiographic picture. Rodriguez M, et al. **Clin Rheumatol** 1997 Mar; 16(2):199-203

Osteoarthritis of the hand in nonhuman primates: a clinical, radiographic, and skeletal survey of Cayo Santiago rhesus macaques. Lim KK, et al. **J Med Primatol** 1996 Aug; 25(4):301-8

Quantitative measurement of erosion growth and joint space loss in rheumatoid arthritis hand radiographs. Higgs JB, et al. **J Rheumatol** 1996 Feb;23(2):265-72

Quantitative analysis of hand radiographs in rheumatoid arthritis: time course of radiographic changes, relation to joint examination measures, and comparison of different scoring methods. Pincus T, et al. **J Rheumatol** 1995 Oct; 22(10):1983-9

Empirical investigation of the signal performance of a high-resolution, indirect detection, active matrix flat-panel imager (AMFPI) for fluoroscopic and radiographic operation. Antonuk LE, et al. **Med Phys** 1997 Jan; 24(1):51-70

Radiology of the hand and wrist [letter; comment] Hann JB 3rd. **Orthopedics** 1997 Apr;20(4):300. Comment on: Orthopedics 1996 Nov;19(11):957-64; quiz 965-6.

Radiology of the hand and wrist [see comments] Weisman TL, et al. **Orthopedics** 1996 Nov;19(11):957-64; quiz 965-6 (20 ref.). Comment in: Orthopedics 1997 Apr;20(4):300.

Hand vs. finger radiographs. Folio LR. **Radiol Technol** 1996 Jan-Feb;67(3):249-50

Kashin-Beck disease: radiographic appearance in the hands and wrists. Wang Y, et al. **Radiology** 1996 Oct; 201(1):265-70

Positioning aid solves the reproducibility problem during oblique hand radiography: a cheap and effective solution. Braakman M. **Skeletal Radiol** 1996 Aug;25(6):563-7

Natural course of erosive arthropathy of the hand in patients undergoing hemodialysis. Cotten A, et al. **Skeletal Radiol** 1997 Jan;26(1):20-6

[Comparison between direct radiographic enlargement and mammography technique in detection of osseous changes of the hand skeleton in hyperparathyroidism] Müller-Miny H, et al. **Radiologe** 1996 Oct;36(10):834-9 (Eng. Abstr.) **(Ger)**

[Calcified peri-tendinitis of the hand is often misdiagnosed] Tordai P, et al. **Lakartidningen** 1997 Sep 3;94(36):3038-40 **(Swe)**

RADIONUCLIDE IMAGING

Contrast enhanced Gd-DTPA magnetic resonance imaging in the evaluation of rheumatoid arthritis during a clinical trial with DMARDs. A prospective two-year follow-up study on hand joints in 31 patients. Jevtic V, et al. **Clin Exp Rheumatol** 1997 Mar-Apr;15(2):151-6

SURGERY

Intra-arterial regional anaesthesia for hand surgery: a dose-finding study. Koscielniak-Nielsen ZJ, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):197-203

Long time follow-up of flexor tendons of the hand after reconstructive operations. Part 1. Monitoring method. Smrčka V, et al. **Acta Chir Plast** 1996;38(2):61-6

Why a new journal [editorial] Verdan C. **Ann Chir Main** 1982;1(1):1-9 **(Eng, Fre)**

Mycosis fungoides palmaris et plantaris: successful treatment with the carbon dioxide laser. Goldberg DJ, et al. **Br J Dermatol** 1997 Apr;136(4):617-9

The extensor digitorum brevis manus. A case report. Fakih RR, et al. **Bull Hosp Jt Dis** 1997;56(2):115-6

Short palmar incision: a new surgical approach for carpal tunnel syndrome. Luchetti R, et al. **Chir Organi Mov** 1996 Apr-Jun;81(2):197-206 (70 ref.) **(Eng, Ita)**

Outcomes assessment in hand surgery. What's new? Amadio PC. **Clin Plast Surg** 1997 Jan;24(1):191-4 (24 ref.)

Free flap coverage of the hand. Brown DM, et al. **Clin Plast Surg** 1997 Jan;24(1):57-62 (22 ref.)

Update on tendon repair. Ingari JV, et al. **Clin Plast Surg** 1997 Jan;24(1):161-73 (89 ref.)

Arthroscopy in hand surgery. Jones KJ. **Clin Plast Surg** 1996 Jul;23(3):463-76 (30 ref.)

Reconstruction of the hand with forearm island flaps. Martin D, et al. **Clin Plast Surg** 1997 Jan;24(1):33-48 (27 ref.)

Surgical principles and planning for the rheumatoid hand and wrist. O'Brien ET. **Clin Plast Surg** 1996 Jul; 23(3):407-20 (43 ref.)

Management of vasospastic disorders of the hand. Troum SJ, et al. **Clin Plast Surg** 1997 Jan;24(1):121-32 (50 ref.)

The need for controlled studies in tendon transfer surgery of the hand. Brandsma JW, et al. **Indian J Lepr** 1997 Jan-Mar;69(1):77-82

Glomus tumours of the hand and foot. Sun BG, et al. **Int Orthop** 1996;20(6):339-41

Contralateral temperature changes of the finger surface during video endoscopic sympathectomy for palmar hyperhidrosis. Wu JJ, et al. **J Auton Nerv Syst** 1996 Jul 5;59(3):98-102

The use of a permanent dermal allograft in full-thickness burns of the hand and foot: a report of three cases. Lattari V, et al. **J Burn Care Rehabil** 1997 Mar-Apr;18(2):147-55

Prospective comparative clinical trials in The Journal of Hand Surgery (American). Amadio PC, et al. **J Hand Surg [Am]** 1996 Sep;21(5):925-9

Giant cell tumors of the bones of the hand. Athanasian EA, et al. **J Hand Surg [Am]** 1997 Jan;22(1):91-8

Publication pattern of papers presented at the American

Society for Surgery of the Hand annual meeting. Gavazza JB, et al. **J Hand Surg [Am]** 1996 Sep;21(5):742–5

Intrinsic balancing in reconstruction of the tetraplegic hand. McCarthy CK, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):596–604

Statistical analysis as related to hand surgery [see comments] Szabo RM. **J Hand Surg [Am]** 1997 May;22(3):376–85 (19 ref.). Comment in: J Hand Surg [Am] 1997 May;22(3):375.

Melanoma of the hand. Warso M, et al. **J Hand Surg [Am]** 1997 Mar;22(2):354–60

Replantation and revascularization at the transmetacarpal level: long-term functional results. Weinzweig N, et al. **J Hand Surg [Am]** 1996 Sep;21(5):877–83

4th Congress of the Federation of the European Societies for Surgery of the Hand (FESSH). Bologna, Italy, 15–18 June 1997. Abstracts. **J Hand Surg [Br]** 1997 Jun;22 Suppl:1–72

3rd Congress of the Federation of the European Societies for Surgery of the Hand and European Federation of Hand Therapists. Paris, 10–13 April 1996. Abstracts. **J Hand Surg [Br]** 1996 Apr;21 Suppl 1:1–47

Pyoderma gangrenosum severely affecting both hands. Adam DJ, et al. **J Hand Surg [Br]** 1996 Dec;21(6):792–4

Rotation-angulation osteotomy in the hand [letter; comment] Botelheiro JC. **J Hand Surg [Br]** 1996 Aug;21(4):567. Comment on: J Hand Surg [Br] 1996 Feb;21(1):43–6.

Electrodiagnostic testing in hand surgery. Campion D. **J Hand Surg [Br]** 1996 Nov;21(6):947–56 (28 ref.)

Recurrent intravascular papillary endothelial hyperplasia. Katzman B, et al. **J Hand Surg [Br]** 1997 Feb;22(1):113–5

Is there a place for the specialty of hand surgeons in Europe? Mulligan PJ. **J Hand Surg [Br]** 1997 Feb;22(1):3–4

The treatment of enchondromas in the hand by endoscopic curettage without bone grafting. Sekiya I, et al. **J Hand Surg [Br]** 1997 Apr;22(2):230–4

Dupuytren's disease treated by palmar fasciectomy and an open palm technique. Shaw DL, et al. **J Hand Surg [Br]** 1996 Aug;21(4):484–5

Wound healing in orthopaedic procedures for Klippel-Trenaunay syndrome [see comments] Gates PE, et al. **J Pediatr Orthop** 1996 Nov-Dec;16(6):723–6. Comment in: J Pediatr Orthop 1996 Nov-Dec;16(6):701–3.

Chopping of hands [letter] Hussain SS. **Lancet** 1997 Jun 7; 349(9066):1704

Use of distal arteries for microvascular reconstruction in forearm and hand surgery. Ge XZ, et al. **Microsurgery** 1996;17(4):180–3

Free and island flap transfer for soft tissue defects in the hand and forearm. Yajima H, et al. **Microsurgery** 1996; 17(3):150–4

Donor-site morbidity of reversed radial artery forearm flaps [letter] Agarwal R. **Plast Reconstr Surg** 1997 Aug; 100(2):549–50

The lateral arm fascial free flap for resurfacing of the hand and fingers. Chen HC, et al. **Plast Reconstr Surg** 1997 Feb; 99(2):454–9

Treatment of irreversible lesion of the radial nerve by tendon transfer: indication and long-term results of the Merle d'Aubigné procedure. Kruft S, et al. **Plast Reconstr Surg** 1997 Sep;100(3):610–6; discussion 617–8

Comparison of free and reversed pedicled posterior interosseous cutaneous flaps. Shibata M, et al. **Plast Reconstr Surg** 1997 Mar;99(3):791–802

A young female patient with reflex sympathetic dystrophy of the upper limb in whom amputation became inevitable. Geertzen JH, et al. **Prosthet Orthot Int** 1997 Aug; 21(2):159–61

Comparison of wound infiltration with ketorolac versus intravenous regional anesthesia with ketorolac for postoperative analgesia following ambulatory hand surgery. Reuben SS, et al. **Reg Anesth** 1996 Nov-Dec; 21(6):565–8

Use of the local leech Hirudo michaelseni in reconstructive plastic and hand surgery. Van Wingerden JJ, et al. **S Afr J Surg** 1997 Feb;35(1):29–31

Transfer of the second toe to the hand in a patient with Monckeberg's sclerosis. Amillo Garayoa S, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):181–3

Increased surface expression of CD18 and CD11b in leukocytes after tourniquet ischemia during elective hand surgery. Sutter PM, et al. **World J Surg** 1997 Feb; 21(2):179–84; discussion 185

[Ulnar parametacarpal flap. Experience with 10 clinical cases] Bakhach J, et al. **Ann Chir Plast Esthet** 1996 Jun; 41(3):269–76 (Eng. Abstr.) **(Fre)**

[Arterial and neural supply of the skin of the palm. Surgical-anatomical findings in Dupuytren's contracture] Schrader M, et al. **Anat Anz** 1997 Aug;179(4):349–53 (Eng. Abstr.) **(Ger)**

[Anesthesia and analgesia in intravenous drug dependent patients with injection abscesses of the upper extremity. Case report] Ebert B, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):38–41 (Eng. Abstr.) **(Ger)**

[Ambulatory surgery from the viewpoint of hand surgery] Fischer K. **Handchir Mikrochir Plast Chir** 1997 May; 29(3):164–5 (Eng. Abstr.) **(Ger)**

[Communication in hand surgery] Hahn P, et al. **Handchir Mikrochir Plast Chir** 1996 Jul;28(4):220–2 (Eng. Abstr.) **(Ger)**

[Contribution to medical history. Hand surgery by Lorenz Heister (1683 to 1758). On the status of hand surgery in Germany in the first half of the 18th century] Nigst H. **Handchir Mikrochir Plast Chir** 1997 May;29(3):114–23 **(Ger)**

[Utilization of forearm island flaps in reconstructive surgery of the hand. Which one is the best option?] Amarante J, et al. **Acta Med Port** 1996 Jul-Sep;9(7–9):211–8 (59 ref.) (Eng. Abstr.) **(Por)**

[Reconstructive-restorative operations on the hand in the polyclinic] Apanasenko BG, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):108–10 **(Rus)**

[Intravenous regional anesthesia using low doses of lidocaine for hand surgery (letter)] Aznar IM, et al. **Rev Esp Anestesiol Reanim** 1996 Feb;43(2):77–8 **(Spa)**

ULTRASONOGRAPHY

Ultrasound characteristics of five common soft-tissue tumours in the hand and forearm. Höglund M, et al. **Acta Radiol** 1997 May;38(3):348–54

A statistical model for ultrasound diagnosis of soft-tissue tumours in the hand and forearm. Höglund M, et al. **Acta Radiol** 1997 May;38(3):355–8

Colour doppler ultrasound examination of hand tendon pathologies. A preliminary report. Buyruk HM, et al. **J Hand Surg [Br]** 1996 Aug;21(4):469–73

Diagnostic ultrasound of the hand and wrist. Read JW, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1004–10

Tuberculous tenosynovitis of the hand: evaluation with B-mode ultrasonography. Riehl J, et al. **J Ultrasound Med** 1997 May;16(5):369–72

Wooden foreign bodies in the hand. Pai VS. **N Z Med J** 1997 Jun 13;110(1045):215

HAND DEFORMITIES

CONGENITAL see HAND DEFORMITIES, CONGENITAL

ETIOLOGY

Ulnar drift [editorial] Flatt AE. **J Hand Ther** 1996 Oct-Dec; 9(4):282–92 (24 ref.)

Major limb deformities as complications of vascular access in neonates. Fullilove S, et al. **Paediatr Anaesth** 1997; 7(3):247–50

REHABILITATION

The use of synthetic plaster casting tape for hand and wrist splints. Mazon C, et al. **J Hand Ther** 1996 Oct-Dec; 9(4):391–3

Development of extensor lag in treating boutonniere deformity [letter; comment] Schreuders TA, et al. **J Hand Ther** 1996 Oct-Dec;9(4):415. Comment on: J Hand Ther 1995 Jul-Sep;8(3):195–8.

SURGERY

Surgical treatment and postoperative splinting of recessive dystrophic epidermolysis bullosa. Ladd AL, et al. **J Hand Surg [Am]** 1996 Sep;21(5):888–97

A rare variant of mirror hand: a case report. Yang SS, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1048–51

HAND DEFORMITIES, ACQUIRED

Metacarpophalangeal joints in rheumatoid arthritis of the hand. Stirrat CR. **Hand Clin** 1996 Aug;12(3):515–29 (34 ref.)

COMPLICATIONS

Palmar fasciitis and polyarthritis syndrome is multicausal [letter] Fernandez-Nebro A, et al. **Clin Rheumatol** 1996 Jan;15(1):99–101 (8 ref.)

Pachydermodactyly a rare cause of finger joint swelling [letter] Costa MM, et al. **J Rheumatol** 1995 Dec; 22(12):2374–5

ETIOLOGY

Unilateral insensate macrodactyly secondary to tuberous sclerosis in a child. Shin AY, et al. **Am J Orthop** 1997 Jan;26(1):30–2

Subcutaneous morphoea with contracture of the the flexor muscles of the finger [letter] Harris A, et al. **Br J Dermatol** 1997 Mar;136(3):476–7

Jaccoud's arthropathy of the hands in overlap syndrome. Paredes JG, et al. **Clin Rheumatol** 1997 Jan;16(1):65–9

Surgery of systemic lupus erythematosus arthritis of the hand. Nalebuff EA. **Hand Clin** 1996 Aug;12(3):591–602 (23 ref.)

Finger deformities in rheumatoid arthritis. Rizio L, et al. **Hand Clin** 1996 Aug;12(3):531–40 (25 ref.)

Study of deformities in children with leprosy: an urban experience. Mahajan PM, et al. **Indian J Lepr** 1995 Oct-Dec;67(4):405–9

Disabilities of hands, feet and eyes in newly diagnosed leprosy patients in eastern Nepal [see comments] Schipper A, et al. **Lepr Rev** 1994 Sep;65(3):239–47. Comment in: Lepr Rev 1996 Sep;67(3):231–2.

[Status of the endoprosthesis in rheumatic metacarpophalangeal joints. Long-term results of metacarpophalangeal prostheses using Swanson's silastic spacers] Schmidt K, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):254–64 (Eng. Abstr.) **(Ger)**

[Surgical treatment of therapy refractory Sudeck's dystrophy by transaxillary decompression of the neurovascular bundle and sympathectomy. On the pathogenesis of Sudeck's disease] Wilhelm A. **Handchir Mikrochir Plast Chir** 1997 Mar;29(2):60–72 (Eng. Abstr.) **(Ger)**

[Diabetic cheiroarthropathy] Bruscas C, et al. **An Med Interna** 1996 Jun;13(6):295–8 (38 ref.) (Eng. Abstr.) **(Spa)**

PATHOLOGY

Dupuytren's disease [letter; comment] McFarlane RM. **J Hand Surg [Br]** 1996 Aug;21(4):566–7. Comment on: J Hand Surg [Br] 1996 Feb;21(1):112–6.

Multifocal plasmacytoma of hand and foot bones. Antonijevic N, et al. **Leuk Lymphoma** 1996 May;21(5–6):505–7

PSYCHOLOGY

[Psychogenic hand dystonia and hereditary polyneuropathy with liability to pressure palsies. A contribution to etiology of dystonias] Strenge H, et al. **Fortschr Neurol Psychiatr** 1996 Jan;64(1):20–5 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

[Comparative roentgenometry of the hand in aging] Dihlmann A, et al. **Aktuelle Radiol** 1996 Sep;6(5):249–56 (Eng. Abstr.) **(Ger)**

REHABILITATION

Evaluation of the effectiveness of a metacarpophalangeal ulnar deviation orthosis. Rennie HJ. **J Hand Ther** 1996 Oct-Dec;9(4):371–7

SURGERY

Treatment of old introclable lesions of the extensors of the middle finger by resection arthroplasty with implant. Iselin F, et al. **Ann Chir Main** 1982;1(1):11–7 **(Eng, Fre)**

Translocation of the fifth finger by intracarpal osteotomy. Le Viet D. **Ann Chir Main** 1982;1(1):45–56 (9 ref.) **(Eng, Fre)**

A new protocol for the treatment of hand deformities in recessive dystrophic epidermolysis bullosa (13 cases). Campiglio GL, et al. **Ann Chir Main Memb Super** 1997; 16(2):91–100; discussion 101

A case of Ollier's disease of the hand. Miyawaki T, et al. **Ann Plast Surg** 1997 Jan;38(1):77–80 (12 ref.)

An approach to complex rheumatoid hand and wrist problems. Blair WF. **Hand Clin** 1996 Aug;12(3):615–28 (16 ref.)

Surgery of psoriatic arthritis of the hand. Nalebuff EA. **Hand Clin** 1996 Aug;12(3):603–14 (16 ref.)

The rheumatoid thumb. Stein AB, et al. **Hand Clin** 1996 Aug; 12(3):541–50 (49 ref.)

Prevention of post-operative "sublimis minus" deformity by modified surgical procedure at the donor finger. Beine A. **Indian J Lepr** 1997 Jan-Mar;69(1):33–41

The need for controlled studies in tendon transfer surgery of the hand. Brandsma JW, et al. **Indian J Lepr** 1997 Jan-Mar;69(1):77–82

A double synergistic approach to correction of the intrinsic minus hand. Kazen RO. **Indian J Lepr** 1997 Jan-Mar; 69(1):53–61

Unfavourable results after surgical correction of claw fingers in leprosy. Malaviya GN. **Indian J Lepr** 1997 Jan-Mar; 69(1):43–52

Surgical correction of claw fingers in leprosy using flexor superficialis direct lasso procedure. Patond KR, et al. **Indian J Lepr** 1997 Jan-Mar;69(1):25–32

Flexor aponeurotic release for resistant adaptive shortening of long flexors in claw hands in leprosy. Rath S. **Indian J Lepr** 1997 Jan-Mar;69(1):101–7

Sensory re-ablement of the hand in leprosy: the next surgical frontier. Richard BM. **Indian J Lepr** 1997 Jan-Mar; 69(1):109–17

Application of "measured tension" technique in correction of claw fingers by tendon transfer in leprosy. Sane SB, et al. **Indian J Lepr** 1997 Jan-Mar;69(1):63–70

The distally based posterior interosseous fasciocutaneous island flap in reconstruction of the hand in leprosy. Teo TC, et al. **Indian J Lepr** 1997 Jan-Mar;69(1):93–100

The three-square-flap method for reconstruction of minor syndactyly. Bandoh Y, et al. **J Hand Surg [Am]** 1997 Jul; 22(4):680–4

Correction of severe spastic flexion contractures in the nonfunctional hand. Pomerance JF, et al. **J Hand Surg [Am]** 1996 Sep;21(5):828–33

Treatment of spastic thumb-in-palm deformity: a modified extensor pollicis longus tendon rerouting. Rayan GM, et al. **J Hand Surg [Am]** 1996 Sep;21(5):834–9

Neurologic injury from axillary block anesthesia. Stark RH. **J Hand Surg [Am]** 1996 May;21(3):391–6

The "S" Quattro in severe Dupuytren's contracture. Beard AJ, et al. **J Hand Surg [Br]** 1996 Dec;21(6):795–6

Toe to hand transfer in children. Part 1: technical aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):723–34

Toe to hand transfer in children. Part 2: Functional and

psychological aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):735–45

Restoration of metacarpophalangeal extension of the thumb in inflammatory arthritis. Manueddu CA, et al. **J Hand Surg [Br]** 1996 Oct;21(5):633–9

Living with rheumatoid arthritis. Ford A, et al. **Radiol Technol** 1997 Jul–Aug;68(6):515–9

[New metacarpal osteotomy: metacarpal cervicocapital shortening osteotomy of the rheumatoid hand] Leemrijse T, et al. **Ann Chir Main Memb Super** 1996;15(3):132–7 (Eng. Abstr.) **(Fre)**

[Surgical treatment of the rheumatoid hand] Kénési C. **Bull Acad Natl Med** 1996 Oct;180(7):1643–55; discussion 1656–7 (Eng. Abstr.) **(Fre)**

[Anterior tenoarthrolysis in flexion contracture of the fingers. Apropos of 41 cases] Foucher G, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):529–34 (Eng. Abstr.) **(Fre)**

[Results of interphalangeal joint arthrolysis in patients with Dupuytren disease] Belusa L, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):158–63 (Eng. Abstr.) **(Ger)**

[Surgical therapy of pronounced gout tophi in both hands. Case report] Piza-Katzer H, et al. **Handchir Mikrochir Plast Chir** 1997 Mar;29(2):96–100 (Eng. Abstr.) **(Ger)**

[Status of the endoprosthesis in rheumatic metacarpophalangeal joints. Long-term results of metacarpophalangeal prostheses using Swanson's silastic spacers] Schmidt K, et al. **Handchir Mikrochir Plast Chir** 1996 Sep;28(5):254–64 (Eng. Abstr.) **(Ger)**

[Early surgery of Dupuytren contracture] Stanković P. **Internist (Berl)** 1997 May;38(5):482–3 **(Ger)**

THERAPY

Comparative study of some procedures for correction of claw fingers in leprosy. Malaviya GN. **Indian J Lepr** 1997 Jan–Mar;69(1):71–6

Re-ablement of hand in leprosy. Palande DD. **Indian J Lepr** 1997 Jan–Mar;69(1):1–3

Mallet deformity of the finger. Five-year follow-up of conservative treatment. Okafor B, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):544–7

Nerve involvement in leprosy. Prevention and management of deformities: need for a paradigm-shift [editorial] Palande DD. **Lepr Rev** 1994 Sep;65(3):161–4

HAND DEFORMITIES, CONGENITAL

Keipert syndrome in two brothers from Turkey. Balci S, et al. **Clin Genet** 1996 Oct;50(4):223–8

Multiple congenital synostosis of the upper limb associated with ulnar hypoplasia and cleft hand. A case report. Sahoo MM, et al. **Int Orthop** 1996;20(2):117–8

What syndrome is this? Ectrodactyly, ectodermal dysplasia, and cleft palate (EEC) syndrome. Miller CI, et al. **Pediatr Dermatol** 1997 May–Jun;14(3):239–40

[Asphyxiating thoracic dysplasia or Jeune's syndrome. Description of 2 mild familial cases] Capilupi B, et al. **Pediatr Med Chir** 1996 Sep–Oct;18(5):529–32 (Eng. Abstr.) **(Ita)**

BLOOD

Normal erythrocyte membrane Gs alpha bioactivity in two unrelated patients with acrodysostosis. Wilson LC, et al. **J Med Genet** 1997 Feb;34(2):133–6

CLASSIFICATION

Classification of ulnar deficiency according to the thumb and first web. Cole RJ, et al. **J Hand Surg [Am]** 1997 May; 22(3):479–88

New classification for the hand anomalies in Apert's syndrome [letter; comment] Anderson PJ, et al. **J Hand Surg [Br]** 1997 Feb;22(1):140–1. Comment on: J Hand Surg [Br] 1996 Apr;21(2):266–8.

Congenital disorders of the hand and upper extremity. Van Heest AE. **Pediatr Clin North Am** 1996 Oct;43(5):1113–33 (23 ref.)

COMPLICATIONS

Further delineation of the acro–renal–ocular syndrome. Aalfs CM, et al. **Am J Med Genet** 1996 Mar 29;62(3):276–81

Stapes fixation associated with symphalangia. Ueda H, et al. **Arch Otolaryngol Head Neck Surg** 1996 Oct;122(10):1124–8

Ocular manifestations in a father and son with EEC syndrome. Käsmann B, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Aug;235(8):512–6

Hand anomalies in Crouzon syndrome. Anderson PJ, et al. **Skeletal Radiol** 1997 Feb;26(2):113–5

DIAGNOSIS

Ectrodactyly–ectodermal dysplasia–clefting syndrome and hypothalamo–pituitary insufficiency. Gershoni-Baruch R, et al. **Am J Med Genet** 1997 Jan 20;68(2):168–72

Ectrodactyly–ectodermal dysplasia—clefting (EEC) syndrome. Moshegov CN. **Arch Ophthalmol** 1996 Oct; 114(10):1290–1

Bitendinous palmaris longus muscle. Celik HH, et al. **Bull Assoc Anat (Nancy)** 1996 Sep;80(250):15–6

Craniosynostosis with Marfan syndrome, hand and foot anomalies [letter] Shah AM, et al. **Clin Dysmorphol** 1996 Jul;5(3):263–6

Dynamic swan neck deformity in a patient with Ehlers-Danlos syndrome. Ergöçen AR, et al. **J Hand Surg [Br]** 1997 Feb;22(1):128–30

Absence of nails with absent distal phalanges [letter; comment] al-Qattan MM. **J Hand Surg [Br]** 1996 Dec; 21(6):833. Comment on: J Hand Surg [Br] 1996 Jun;21(3):403–4.

Imaging of the Apert syndrome hand using three-dimensional CT and MRI. Holten IW, et al. **Plast Reconstr Surg** 1997 May;99(6):1675–80

EMBRYOLOGY

Hand malformations in the aborted embryo: an important source of genetic information. Ramsing M, et al. **Birth Defects Orig Artic Ser** 1996;30(1):79–94

Congenital scalp defect, distal limb reduction anomalies, right spastic hemiplegia and hypoplasia of the left arteria cerebri media. Further evidence that interruption of early embryonic blood supply may result in Adams–Oliver (plus) syndrome. Fryns JP, et al. **Clin Genet** 1996 Dec;50(6):505–9

ETIOLOGY

Unilateral hypertrophy of the upper extremity due to aberrant muscles. Tanabe K, et al. **J Hand Surg [Br]** 1997 Apr;22(2):253–7

GENETICS

Autosomal dominant microcephaly with normal intelligence, short palpebral fissures, and digital anomalies. Innis JW, et al. **Am J Med Genet** 1997 Aug 8;71(2):150–5

Short stature, Robin sequence, cleft mandible, pre/postaxial hand anomalies, and clubfoot: another affected Brazilian patient born to consanguineous parents [letter] Richieri-Costa A, et al. **Am J Med Genet** 1997 Aug 8; 71(2):233–5

Clinical and locus heterogeneity in brachydactyly type C. Robin NH, et al. **Am J Med Genet** 1997 Jan 31;68(3):369–77

Severe clinical phenotype due to an interstitial deletion of the short arm of chromosome 1: a brief review. Stockton DW, et al. **Am J Med Genet** 1997 Aug 8;71(2):189–93

Interstitial deletion of 6q21–q23 associated with split hand. Tsukahara M, et al. **Am J Med Genet** 1997 Mar 31; 69(3):268–70

Interstitial deletion 6q16.2q22.2 in a child with ectrodactyly. Correa-Cerro L, et al. **Ann Genet** 1996;39(2):105–9

Familial distal arthrogryposis type I. Stoll C, et al. **Ann Genet** 1996;39(2):75–80

Hand malformations in the aborted embryo: an important source of genetic information. Ramsing M, et al. **Birth Defects Orig Artic Ser** 1996;30(1):79–94

Holt–Oram (heart–hand) syndrome [letter] Galappatthy GK, et al. **Ceylon Med J** 1997 Jun;42(2):106–8

Brachydactyly in a child with duplication–deficiency subsequent to t(15;20)(q25.2;p12.2)mat. Candidate regions on one or both chromosomes? Pfeiffer RA, et al. **Clin Genet** 1997 May;51(5):357–60

Trichorhinophalangeal syndrome type III. Itin PH, et al. **Dermatology** 1996;193(4):349–52 (13 ref.)

Brachytelephalangy with mental retardation, peculiar face and short stature in two sibs. A new MCA/MR syndrome? Mégarbané A, et al. **Genet Couns** 1997;8(2):127–32

Brachydactyly and short stature in a mother and her daughter with a fragile site at 16q22. Stoll C, et al. **Genet Couns** 1997;8(2):115–20

Brachydactyly type C gene maps to human chromsome 12q24. Polymeropoulos MH, et al. **Genomics** 1996 Nov 15; 38(1):45–50

Characterization of the split hand/split foot malformation locus SHFM1 at 7q21.3–q22.1 and analysis of a candidate gene for its expression during limb development. Crackower MA, et al. **Hum Mol Genet** 1996 May; 5(5):571–9

Genotype–phenotype correlation for nucleotide substitutions in the IgII–IgIII linker of FGFR2. Oldridge M, et al. **Hum Mol Genet** 1997 Jan;6(1):137–43

Split hand/split foot malformation, deafness, and mental retardation with a complex cytogenetic rearrangement involving 7q21.3. Ignatius J, et al. **J Med Genet** 1996 Jun; 33(6):507–10

Refined mapping of a gene for split hand–split foot malformation (SHFM3) on chromosome 10q25. Raas-Rothschild A, et al. **J Med Genet** 1996 Dec; 33(12):996–1001

Mirror hands and feet [letter] van Steensel MA. **J Med Genet** 1997 Aug;34(8):701–2

Arms and the man or hands and the child: congenital anomalies and hematologic syndromes. Alter BP. **J Pediatr Hematol Oncol** 1997 Jul–Aug;19(4):287–91 (22 ref.)

Mutation of HOXA13 in hand–foot–genital syndrome [see comments] Mortlock DP, et al. **Nat Genet** 1997 Feb; 15(2):179–80. Comment in: Nat Genet 1997 Feb;15(2):117–8.

Mutations in CDMP1 cause autosomal dominant brachydactyly type C [letter] Polinkovsky A, et al. **Nat Genet** 1997 Sep;17(1):18–9

Hox genes, arms and the man [news; comment] Scott MP. **Nat Genet** 1997 Feb;15(2):117–8. Comment on: Nat Genet 1997 Feb;15(2):179–80.

HOX gene links limb, genital defects [news] Dickman S. **Science** 1997 Mar 14;275(5306):1568

[Cryptorchidism with didymo–epididymal dissociation and Robinow's syndrome: 2 case reports] Fabbro MA, et al. **Pediatr Med Chir** 1997 Mar–Apr;19(2):121–4 (Eng. Abstr.) **(Ita)**

PATHOLOGY

Digital anomalies, microcephaly, and normal intelligence: new syndrome or Feingold syndrome? Kawame H, et al. **Am J Med Genet** 1997 Mar 31;69(3):240–4

The Holt–Oram syndrome: radiological approach. Penne D, et al. **J Belge Radiol** 1997 Jun;80(3):118–9

Acrorenal syndrome associated with visual defect. al Salloum AA, et al. **Pediatr Nephrol** 1996 Dec;10(6):759–60

The Apert syndrome hand: pathologic anatomy and clinical manifestations. Holten IW, et al. **Plast Reconstr Surg** 1997 May;99(6):1681–7

PHYSIOPATHOLOGY

Distal arthrogryposis type 1: clinical analysis of a large kindred. Bamshad M, et al. **Am J Med Genet** 1996 Nov 11;65(4):282–5

Extending the spectrum of distal arthrogryposis. Gripp KW, et al. **Am J Med Genet** 1996 Nov 11;65(4):286–90

[Significance of vascular structure and regional hemodynamics in the surgical treatment of hand dysgenesis in children] Tiazhelkov AP. **Khirurgiia (Mosk)** 1996; (4):53–8 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Does periconceptional multivitamin use reduce the risk for limb deficiency in offspring? Yang Q, et al. **Epidemiology** 1997 Mar;8(2):157–61

RADIOGRAPHY

Rhombencephalosynapsis associated with hand anomalies. Aydingöz U, et al. **Br J Radiol** 1997 Jul;70(835):764–6

Unusual type of brachydactyly associated with intraventricular septal defect and deafness: a new condition? Camera G, et al. **Clin Dysmorphol** 1997 Jan; 6(1):31–3

The hands in Saethre–Chotzen syndrome. Anderson PJ, et al. **J Craniofac Genet Dev Biol** 1996 Oct–Dec;16(4):228–33

Metacarpophalangeal pattern (MCPP) profile analysis in a family with triphalangeal thumb. Zguricas J, et al. **J Med Genet** 1997 Jan;34(1):55–62

Radiologic case study. Madelung's deformity of the wrist. Anderson BL, et al. **Orthopedics** 1997 Jun;20(6):576, 569–71

Skeletal abnormalities of hands and feet in Laurence–Moon–Bardet–Biedl (LMBB) syndrome: a radiographic study. Rudling O, et al. **Skeletal Radiol** 1996 Oct;25(7):655–60

REHABILITATION

Neoprene wrist brace for correction of radial club hand in children. Kennedy SM. **J Hand Ther** 1996 Oct–Dec; 9(4):387–90

SURGERY

The dorsal transposition flap for congenital contractures of the first web space: a 20-year experience. Friedman R, et al. **J Hand Surg [Am]** 1997 Jul;22(4):664–70

Duplicated thumb bifurcation at the metacarpophalangeal joint level: factors affecting surgical outcome. Horii E, et al. **J Hand Surg [Am]** 1997 Jul;22(4):671–9

Use of forearm flaps for the severely contracted first web space in children with congenital malformations. Upton J, et al. **J Hand Surg [Am]** 1996 May;21(3):470–7

Toe to hand transfer in children. Part 2: Functional and psychological aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):735–45

Toe to hand transfer in children. Part 1: technical aspects. Kay SP, et al. **J Hand Surg [Br]** 1996 Dec;21(6):723–34

Upper limb triplication with radial dimelia. Mennen U, et al. **J Hand Surg [Br]** 1997 Feb;22(1):80–3

Lengthening of a congenitally short metacarpal using a "napkin-ring" in-between-plasty. Mirly HL, et al. **Orthopedics** 1997 Jan;20(1):71–3

Treatment for congenital synostosis of the fourth and fifth metacarpals with the hemicallotasis technique. Kawabata H, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2061–5

[Kirner's disease: surgical treatment] Mantero R. **Ann Chir Main** 1982;1(1):88–91 (13 ref.) (Eng. Abstr.) **(Fre)**

[A new method for treating the Kirner deformity with the SM-Fix phalangeal distractor] Moser N, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):34–8 (Eng. Abstr.) **(Ger)**

[Treatment of a radial club hand] Grill F, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul–Aug;134(4):324–31 (34 ref.) (Eng. Abstr.) **(Ger)**

[Significance of vascular structure and regional hemodynamics in the surgical treatment of hand dysgenesis in children] Tiazhelkov AP. **Khirurgiia (Mosk)** 1996; (4):53–8 (Eng. Abstr.) **(Rus)**

HAND DEFORMITIES, CONGENITAL

ULTRASONOGRAPHY

Prenatal diagnosis of the split hand anomaly: how early is early? Haratz-Rubinstein N, et al. **Ultrasound Obstet Gynecol** 1996 Jul;8(1):57-61 (28 ref.)

Sonographic diagnosis of fetal upper extremity dysmorphology: significance and outcome. Zelop C, et al. **Ultrasound Obstet Gynecol** 1996 Dec;8(6):391-6

HAND DERMATOSES

Acral peeling skin syndrome [letter] Shwayder T, et al. **Arch Dermatol** 1997 Apr;133(4):535-6

Resistant herpes infection of the palm in a patient with acquired immunodeficiency syndrome: a case report. Dilley D, et al. **J Hand Surg [Am]** 1997 Jul;22(4):650-2

BLOOD

[Perniosis and lupus anticoagulant] de Argila Fernández-Aurán D, et al. **Rev Clin Esp** 1996 Jan; 196(1):24-7 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Chemotherapy-induced acral erythema due to Tegafur [letter] Bastida J, et al. **Acta Derm Venereol** 1997 Jan; 77(1):72-3

Palmar-plantar erythrodysaesthesia syndrome and other cutaneous side-effects after treatment with Tegafur [letter] Rios-Buceta L, et al. **Acta Derm Venereol** 1997 Jan; 77(1):80-1

Allergic contact dermatitis from azathioprine. Soni BP, et al. **Am J Contact Dermat** 1996 Jun;7(2):116-7

Acute and painful erythema of the hands and feet. Acral erythema induced by chemotherapy. Revenga Arranz F, et al. **Arch Dermatol** 1997 Apr;133(4):499-500, 502-3

Fixed drug eruption due to dimenhydrinate [letter] Gonzalo-Garijo MA, et al. **Br J Dermatol** 1996 Oct; 135(4):661-2

Photo quiz. Contact dermatitis secondary to Neosporin ointment. Dasaraju P, et al. **Clin Infect Dis** 1997 Jul; 25(1):33, 145

Occupational allergic contact dermatitis caused by Euxyl K 400. Aalto-Korte K, et al. **Contact Dermatitis** 1996 Sep; 35(3):193-4

An outbreak of hand dermatitis among workers using sodium lauryl sulfate for skin cleansing. Dihoom M, et al. **Contact Dermatitis** 1996 May;34(5):366-7

Maintenance of hand eczema by oral pantothenic acid in a patient sensitized to dexpanthenol. Hemmer W, et al. **Contact Dermatitis** 1997 Jul;37(1):51

Transient re-emergence of oil of turpentine allergy in the pottery industry. Lear JT, et al. **Contact Dermatitis** 1996 Sep;35(3):169-72

Hand involvement in allergic contact dermatitis from mercaptobenzothiazole in shoes. Lear JT, et al. **Contact Dermatitis** 1996 Jun;34(6):432

Addition of ferrous sulfate to cement and risk of chromium dermatitis among construction workers. Roto P, et al. **Contact Dermatitis** 1996 Jan;34(1):43-50

Multiple sources of allergic contact dermatitis from parabens. Verhaeghe I, et al. **Contact Dermatitis** 1997 May; 36(5):269-70

Taxol-induced acral erythema. de Argila D, et al. **Dermatology** 1996;192(4):377-8

Hand-foot syndrome induced by high-dose, short-term, continuous 5-fluorouracil infusion. Chiara S, et al. **Eur J Cancer** 1997 May;33(6):967-9

Droxicam photosensitivity with dyshidrotic hand dermatitis [letter] Anonide A, et al. **Int J Dermatol** 1997 Apr; 36(4):318-20

Diagnosis in oncology. Hand-foot syndrome. Skarin A. **J Clin Oncol** 1997 Sep;15(9):3164

A case of bleomycin-induced scleroderma. Kim KH, et al. **J Korean Med Sci** 1996 Oct;11(5):454-6

Occupational skin ulceration in chrome platers. Williams N. **Occup Med (Oxf)** 1997 Jul;47(5):309-10

COMPLICATIONS

Pseudoainhum associated with linear scleroderma [letter] Park BS, et al. **Arch Dermatol** 1996 Dec;132(12):1520-1

Fatal Rhizopus infection in a hand [letter] La Hausse-Brown TP, et al. **Br J Plast Surg** 1996 Dec;49(8):572-3

Malignant acanthosis nigricans and tripe palms in a patient with endometrial adenocarcinoma--a case report and review of literature. Gorisek B, et al. **Gynecol Oncol** 1997 Jun;65(3):539-42 (17 ref.)

Knuckle pads, leukonychia and deafness. Köse O, et al. **Int J Dermatol** 1996 Oct;35(10):728-9

Verrucosis of hands and feet in a patient with combined immune deficiency. Asadullah K, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):850-2

CONGENITAL

Congenital ectopic nails of the fingers is associated with bone deformities [letter] Kuniyuki S. **Acta Derm Venereol** 1996 Jul;76(4):322-3

DIAGNOSIS

Occupational contact dermatitis toward sesquiterpene lactones in a florist. Bangha E, et al. **Am J Contact Dermat** 1996 Sep;7(3):188-90

Enlarging lesion on hand. Golledge CL. **Aust Fam Physician** 1996 May;25(5):787

Prognosis of occupational hand dermatitis in metalworkers. Shah M, et al. **Contact Dermatitis** 1996 Jan;34(1):27-30

The diagnosis and management of health personnel allergic to natural rubber latex gloves. Part II. Fisher AA. **Cutis** 1997 Apr;59(4):168-70 (17 ref.)

Papular-purpuric gloves-and-socks syndrome. Vargas-Díez E, et al. **Int J Dermatol** 1996 Sep;35(9):626-32 (25 ref.)

[Pachydermodactyly in adolescents: a sign of discomfort?] Cartier H, et al. **Arch Pediatr** 1996 Nov;3(11):1091-4 (Eng. Abstr.) **(Fre)**

[Nail polish allergy. An important differential diagnosis in contact dermatitis] Boehncke WH, et al. **Dtsch Med Wochenschr** 1997 Jul 4;122(27):849-52 (12 ref.) (Eng. Abstr.) **(Ger)**

[Erythema elevatum and diutinum in Crohn disease] Elsner J, et al. **Hautarzt** 1996 Sep;47(9):701-4 (Eng. Abstr.) **(Ger)**

[Erythema elevatum diutinum. A rare dermatosis with a broad spectrum of associated illnesses] Gerbig AW, et al. **Hautarzt** 1997 Feb;48(2):113-7 (25 ref.) (Eng. Abstr.) **(Ger)**

[The sodium lauryl sulfate test. A noninvasive functional evaluation of skin hypersensitivity] Löffler H, et al. **Hautarzt** 1996 Nov;47(11):832-8 (Eng. Abstr.) **(Ger)**

[Skin infections caused by Mycobacterium gordonae. Case report and review of the literature] Weyers W, et al. **Hautarzt** 1996 Oct;47(10):771-5 (48 ref.) (Eng. Abstr.) **(Ger)**

[Fever, stomatitis, and cutaneous eruption on the hands and feet. "Gloves and socks" papular purpuric syndrome] Allegue F, et al. **Enferm Infecc Microbiol Clin** 1996 Apr; 14(4):271-2 **(Spa)**

[Delayed diagnosis of subungual melanoma. Two cases were misjudged as onychomycosis] Wallberg B, et al. **Lakartidningen** 1997 Jul 9;94(28-29):2543-4 **(Swe)**

DRUG THERAPY

Treatment of hand dermatosis: a comparative study of a topical glucocorticoid ointment vs solution occluded with a new thin hydrocolloid dressing [letter] Beitner H. **Acta Derm Venereol** 1996 Sep;76(5):408-9

Comparison of cyclosporine and topical betamethasone-17,21-dipropionate in the treatment of severe chronic hand eczema. Granlund H, et al. **Acta Derm Venereol** 1996 Sep;76(5):371-6

Comparison of the influence of cyclosporine and topical betamethasone-17,21-dipropionate treatment on quality of life in chronic hand eczema. Granlund H, et al. **Acta Derm Venereol** 1997 Jan;77(1):54-8

Etretinate may work where acitretin fails. Bleiker TO, et al. **Br J Dermatol** 1997 Mar;136(3):368-70

A new method of intralesional bleomycin therapy in the treatment of recalcitrant warts. Munn SE, et al. **Br J Dermatol** 1996 Dec;135(6):969-71

Homoeopathic versus placebo therapy of children with warts on the hands: a randomized, double-blind clinical trial. Kainz JT, et al. **Dermatology** 1996;193(4):318-20

Diphencyprone in the management of refractory palmoplantar and periungual warts: an open study. Rampen FH, et al. **Dermatology** 1996;193(3):236-8

Evening primrose oil (Epogam) in the treatment of chronic hand dermatitis: disappointing therapeutic results. Whitaker DK, et al. **Dermatology** 1996;193(2):115-20

Dermatography with bleomycin as a new treatment for verrucae vulgaris. van der Velden EM, et al. **Int J Dermatol** 1997 Feb;36(2):145-50

A multicenter, placebo-controlled, double-blind study of intermittent therapy with itraconazole for the treatment of onychomycosis of the fingernail. Odom RB, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):231-5

Treatment of chronic palmoplantar eczema with local bath-PUVA therapy. Schempp CM, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):733-7

Successful treatment of primary cutaneous Aspergillus flavus infection of the hand with oral itraconazole. Epstein MD, et al. **J Hand Surg [Br]** 1996 Nov;21(6):1106-8

[The infusion of drugs into the recurrent radial artery in treating complex forms of paronychia and phlegmon of the hand] Toskin KD, et al. **Klin Khir** 1995;(2):3-4 **(Rus)**

EPIDEMIOLOGY

Contact dermatitis among cashew nut workers. Diogenes MJ, et al. **Contact Dermatitis** 1996 Aug;35(2):114-5

Metalworking fluid dermatitis: a comparative follow-up study in patients with irritant and non-irritant hand dermatitis. Elsner P, et al. **Curr Probl Dermatol** 1995; 23:77-86

The long-term prognosis in irritant contact hand dermatitis. Fitzgerald DA, et al. **Curr Probl Dermatol** 1995;23:73-6

Occupational dermatitis in hairdressing apprentices. Early-onset irritant skin damage. Uter W, et al. **Curr Probl Dermatol** 1995;23:49-55

ETIOLOGY

Contact dermatitis to nasturtium [letter] Derrick E, et al. **Br J Dermatol** 1997 Feb;136(2):290-1

Unique digital skin lesions associated with systemic sclerosis. Marzano AV, et al. **Br J Dermatol** 1997 Apr;136(4):598-600

Eczema craquelé as a pointer of internal malignancy--a case report. Guillet MH, et al. **Clin Exp Dermatol** 1996 Nov; 21(6):431-3 (24 ref.)

The relationship between clinical patterns, and exogenous and endogenous factors, in hand eczema. Akyol A, et al. **Contact Dermatitis** 1997 May;36(5):278-9

Tabernaemontana coronaria causing fingertip dermatitis. Bajaj AK, et al. **Contact Dermatitis** 1996 Aug;35(2):104-5

Allergic contact dermatitis from apomorphine. Carboni GP, et al. **Contact Dermatitis** 1997 Mar;36(3):177-8

Vesicular dermatitis of the hands secondary to perianal allergic contact dermatitis caused by preservatives in moistened toilet tissues. de Groot AC. **Contact Dermatitis** 1997 Mar;36(3):173-4

Contact allergy to disodium cocoamphodipropionate. de Groot AC, et al. **Contact Dermatitis** 1996 Oct;35(4):248-9

Allergic contact dermatitis on the hands from chloromethylisothiazolinone in moist toilet paper. Guimaraens D, et al. **Contact Dermatitis** 1996 Oct;35(4):254

Contact dermatitis from nail polish: an unusual clinical response. Handa S, et al. **Contact Dermatitis** 1996 Aug; 35(2):118-9

Occupational allergic contact dermatitis from 3-dimethylaminopropylamine in shampoos. Kanerva L, et al. **Contact Dermatitis** 1996 Aug;35(2):122-3

Hand dermatitis and allergic patch test reactions caused by nickel in electroplaters. Kanerva L, et al. **Contact Dermatitis** 1997 Mar;36(3):137-40

Photoallergic contact dermatitis in a pig farmer caused by olaquindox. Kumar A, et al. **Contact Dermatitis** 1996 Oct; 35(4):249-50

Irritant contact dermatitis from Cerastium tomentosum (snow-in-summer). Lear JT, et al. **Contact Dermatitis** 1996 Sep;35(3):182

Occupational contact dermatitis in a beautician. O'Reilly FM, et al. **Contact Dermatitis** 1996 Jul;35(1):47-8

Occupational allergic contact dermatitis from disinfectant wipes used in dentistry. Placucci F, et al. **Contact Dermatitis** 1996 Nov;35(5):306

Contact dermatitis from castor oil in zinc and castor oil cream. Wakelin SH, et al. **Contact Dermatitis** 1996 Oct; 35(4):259

Rubber glove dermatitis: a significant occupational hazard-prevention. Estlander T, et al. **Curr Probl Dermatol** 1996;25:170-6 (32 ref.)

Prevention by exposure assessment. Flyvholm MA. **Curr Probl Dermatol** 1996;25:97-105 (29 ref.)

Radiation keratosis associated with exposure to a gold ring. Helm KF, et al. **Cutis** 1996 Jun;57(6):435-6

Gloves-and-socks syndrome in a patient with Epstein-Barr virus infection [letter] Drago F, et al. **Dermatology** 1997; 194(4):374

Skin risk assessment of metalworking fluids: a survey among Swiss suppliers. Itschner L, et al. **Dermatology** 1996; 193(1):33-5

Occupational dermatoses in cheese makers: frequent association of irritant, allergic and protein contact dermatitis. Nestle FO, et al. **Dermatology** 1997;194(3):243-6

Pseudo-Kaposi's sarcoma associated with acquired arteriovenous fistula. Kim TH, et al. **J Dermatol** 1997 Jan; 24(1):28-33

A proliferative vascular tumour of the skin in a kidney-transplant recipient (recurrent pyogenic granuloma with satellitosis). Le Meur Y, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1271-3

[Chronic radiodermatitis--a historical and current diagnosis] Tilsted D, et al. **Ugeskr Laeger** 1997 Jul 28;159(31):4767-8 (Eng. Abstr.) **(Dan)**

[Apropos of juvenile palmar dermatitis of swimming pools (letter; comment)] Sassolas B. **Ann Dermatol Venereol** 1996; 123(8):519. Comment on: Ann Dermatol Venereol 1995;122(10):695-6. **(Fre)**

[Update on the latex allergy topic] Heese A, et al. **Hautarzt** 1996 Nov;47(11):817-24 (40 ref.) (Eng. Abstr.) **(Ger)**

["Gloves and socks" purpura syndrome caused by human parvovirus B19 (letter)] Garcia-Bermejo, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):398-9 **(Spa)**

GENETICS

Isolated acral Darier's disease with haemorrhagic lesions in a kindred [letter] Regazzini R, et al. **Br J Dermatol** 1996 Sep;135(3):495-6

IMMUNOLOGY

Childhood sclerodermatomyositis: report of a case with the anti-PM/Scl antibody and mechanic's hands. García-Patos V, et al. **Br J Dermatol** 1996 Oct;135(4):613-6

Comparison of personal history with patch test results in metal allergy. Böhm I, et al. **J Dermatol** 1997 Aug; 24(8):510-3

MICROBIOLOGY

Transmission of Trichophyton interdigitale via an intermediate plant host [letter] Weller R, et al. **Br J Dermatol** 1996 Oct;135(4):656-7

Phaeohyphomycosis caused by Exophiala dermatitidis following intra-articular steroid injection. Woollons A, et al. **Br J Dermatol** 1996 Sep;135(3):475-7

The identification of methicillin-resistant Staphylococcus

aureus in Osler's nodes and Janeway lesions of acute bacterial endocarditis. Parikh SK, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):767-8

Staphylococcal blistering dactylitis: report of two patients. Woroszylski A, et al. **Pediatr Dermatol** 1996 Jul-Aug; 13(4):292-3

Periodic fever and skin lesions caused by disseminated Mycobacterium chelonae infection in an immunocompetent child. Ryan ME, et al. **Pediatr Infect Dis J** 1996 Mar; 15(3):270-2

[Cellulitis caused by Streptococcus pneumoniae associated with spondylodiscitis after suppurative otitis media (letter)] López J, et al. **Enferm Infecc Microbiol Clin** 1997 Mar; 15(3):171-2 **(Spa)**

PARASITOLOGY

Tungiasis presenting with sterile pustular lesions on the hand [letter] Veraldi S, et al. **Acta Derm Venereol** 1996 Nov; 76(6):495

PATHOLOGY

Generalized granuloma annulare showing the unusual clinical feature of marked swelling of the hands [letter] Kunigvki S, et al. **Acta Derm Venereol** 1996 May;76(3):255-6

Idiopathic palmoplantar hidradenitis. Buezo GF, et al. **Am J Dermatopathol** 1996 Aug;18(4):413-6

Preradial myxedema: a case report. Kohar YM, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):281-2 (6 ref.)

Palmoplantar pustules in an infant. Acropustulosis of infancy. Dorton DW, et al. **Arch Dermatol** 1996 Nov; 132(11):1365-6, 1368-9

A solitary warty plaque. Isolated cerebriform collagenoma. Jones MS, et al. **Arch Dermatol** 1997 Jul;133(7):909-10, 912-3

Yellowish papules on lateral aspect of palms. Focal acral hyperkeratosis. Richey TK, et al. **Arch Dermatol** 1996 Nov; 132(11):1365, 1368

Perniosis--a possible association with a preleukaemic state [letter] Cliff S, et al. **Br J Dermatol** 1996 Aug;135(2):344-5

Acral lentiginous melanoma of the palm [letter] Kato T, et al. **Clin Exp Dermatol** 1996 Sep;21(5):388-9

Multiple angiolymphoid hyperplasia with eosinophilia of the hand: report of a case and review of the literature. Imbing FD Jr, et al. **Cutis** 1996 Nov;58(5):345-8 (13 ref.)

Granuloma annulare in a patient with malignant lymphoma. Ono H, et al. **Dermatology** 1997;195(1):46-7

Palmar papillomatous lesions reminiscent of epidermal nevus in a case of focal dermal hypoplasia: a nosological consideration. van der Steen PH, et al. **Dermatology** 1996; 193(2):147-8

Silicone granuloma in acral skin in a patient with silicone-gel breast implants and systemic sclerosis. Anderson DR, et al. **Int J Dermatol** 1996 Jan;35(1):36-8

Botryomycosis caused by Pseudomonas vesicularis. Calegari L, et al. **Int J Dermatol** 1996 Nov;35(11):817-8

Images in clinical medicine. Orf skin ulcer. Roingeard P, et al. **N Engl J Med** 1997 Oct 16;337(16):1131

Juvenile xanthogranuloma on the palm. Shin HM, et al. **Pediatr Dermatol** 1996 Mar-Apr;13(2):146-7 (7 ref.)

Eccrine angiomatous hamartoma: report of three patients. Smith C, et al. **Pediatr Dermatol** 1996 Mar-Apr; 13(2):139-42

PREVENTION & CONTROL

Self-application of a protective cream. Pitfalls of occupational skin protection. Wigger-Alberti W, et al. **Arch Dermatol** 1997 Jul;133(7):861-4

Water protective effect of barrier creams and moisturizing creams: a new in vivo test method. de Fine Olivarius F, et al. **Contact Dermatitis** 1996 Oct;35(4):219-25

Risk-group-related prevention of hand eczema at the workplace. Funke U, et al. **Curr Probl Dermatol** 1996; 25:123-32 (5 ref.)

Prevention of hand eczema in atopics. Meding B. **Curr Probl Dermatol** 1996;25:116-22 (25 ref.)

The 4-hour glove for epoxy and acrylic monomer (dental and orthopedic personnel) and glyceryl monothioglycolate (hairdressers) [news] Fisher AA. **Cutis** 1997 May; 59(5):235-6

Prevention of hand eczema in the metal-working industry: risk awareness and behaviour of metal worker apprentices. Itschner L, et al. **Dermatology** 1996;193(3):226-9

Health problems of automobile mechanics in Nigeria [see comments] Omokhodion FO, et al. **Trop Doct** 1996 Jul; 26(3):102-4. Comment in: Trop Doct 1996 Jul;26(3):98-9.

[Use of skin protective agents by patients with occupational dermatoses: need for improved preventive behavior] Wigger-Alberti W, et al. **Schweiz Med Wochenschr** 1997 May 24;127(21):899-904 (Eng. Abstr.) **(Ger)**

[Prevention of skin diseases in workers of agricultural machine building enterprises] Kiriushin VA, et al. **Gig Sanit** 1996 Sep-Oct;(5):9-10 **(Rus)**

SURGERY

Thoracoscopic sympathectomy in the treatment of palmar hyperhidrosis: anaesthetic implications. Fredman B, et al. **Br J Anaesth** 1997 Jul;79(1):113-9 (55 ref.)

Digital calcification in systemic sclerosis: effective treatment with good tissue preservation using the carbon dioxide laser. Bottomley WW, et al. **Br J Dermatol** 1996 Aug; 135(2):302-4

Adult-type colloid milium of hands and face successfully treated with dermabrasion. Netscher DT, et al. **South Med J** 1996 Oct;89(10):1004-7

[Lentigo benigna. Removal with the Q-switched ruby laser] Raulin C, et al. **Hautarzt** 1996 Jan;47(1):44-6 (Eng. Abstr.) **(Ger)**

[The radical surgical treatment of phlegmons of the hand by using a drainage-lavage system and primary wound sutures] Iukhtin VI, et al. **Vestn Khir Im I I Grek** 1996; 155(5):85-9 **(Rus)**

THERAPY

Use of a semipermeable glove during treatment of hand dermatitis. Baack BR, et al. **Cutis** 1996 Dec;58(6):423-4

VIROLOGY

Immunohistochemical and virological study of skin in the papular-purpuric gloves and socks syndrome. Aractingi S, et al. **Br J Dermatol** 1996 Oct;135(4):599-602

Buffalopox. Ramanan C, et al. **Int J Dermatol** 1996 Feb; 35(2):128-30

HAND, FOOT AND MOUTH DISEASE

VIROLOGY

[Investigation for VP4 region of coxsackie virus A16 RNA sequence from hand-foot-mouth disease patients at eastern district of Shizuoka prefecture in 1995] Minohara Y, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1098-102 (Eng. Abstr.) **(Jpn)**

HAND INJURIES

see related
WRIST INJURIES

Complete avulsion of a tendon of flexor digitorum profundus from its myotendinous junction [letter; comment] Allcock S. **Injury** 1996 Dec;27(10):755. Comment on: Injury 1995 Dec;26(10):697.

Grease burns of the hand: preventable injuries. Bill TJ, et al. **J Emerg Med** 1996 May-Jun;14(3):351-5

Hand problems presenting to a district general hospital accident and emergency department. Gaine WJ, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):401-4

[Overuse injuries of the hand] Engel J, et al. **Harefuah** 1996 Sep;131(5-6):206-8 (19 ref.) **(Heb)**

[Tiny studies for occupational disorders] Katsumi S. **Nippon Seikeigeka Gakkai Zasshi** 1997 Jan;71(1):18-20 **(Jpn)**

CHEMICALLY INDUCED

Phenolic household disinfectants--further precautions required. DeBono R, et al. **Burns** 1997 Mar;23(2):182-5

CLASSIFICATION

Explosion injuries of the hand. Spatial relationship and injury pattern. Hahn P, et al. **J Hand Surg [Br]** 1996 Dec; 21(6):785-7

[The value of a hand injury chart] van Not HP, et al. **Ned Tijdschr Geneeskd** 1997 Mar 1;141(9):419-22 (Eng. Abstr.) **(Dut)**

COMPLICATIONS

Late rupture of a flexor tendon after electrical injury: tendon localization using magnetic resonance imaging. A case report. Concannon MJ, et al. **Ann Plast Surg** 1996 Jan; 36(1):84-7

The natural history of cold intolerance of the hand. Nancarrow JD, et al. **Injury** 1996 Nov;27(9):607-11

Human immunodeficiency virus infection in an emergency hand service. Ching V, et al. **J Hand Surg [Am]** 1996 Jul; 21(4):696-9

Persistent mechanical allodynia following injury of the hand. Treatment through mobilization of the nervous system. Sweeney J, et al. **J Hand Ther** 1996 Oct-Dec;9(4):328-38

[Simultaneous dorsal luxation of metacarpophalangeal joints of the four long fingers. Apropos of a case] Guiral J, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(6):561-3 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Clenched fist injury: a pitfall for patients and surgeons. De Smet L, et al. **Acta Orthop Belg** 1997 Jun;63(2):113-7

Magnetic resonance imaging of severe frostbite injuries. Barker JR, et al. **Ann Plast Surg** 1997 Mar;38(3):275-9

Sports injuries of the hand. Palmer RE. **Instr Course Lect** 1994;43:25-30 (1 ref.)

Repetitive strain injuries and cumulative trauma disorders [editorial] [see comments] Weiland AJ. **J Hand Surg [Am]** 1996 May;21(3):337. Comment in: J Hand Surg [Am] 1997 Jan;22(1):162. Comment in: J Hand Surg [Am] 1997 Jan;22(1):162-3. Comment in: J Hand Surg [Am] 1997 Jan;22(1):163-5; discussion 165-6. Comment in: J Hand Surg [Am] 1997 Jan;22(1);166-7; discussion 168-9. Comment in: J Hand Surg [Am] 1997 Jan;22(1);167; discussion 168-9. Comment in: J Hand Surg [Am] 1997 Jan;22(1):167-8; discussion 168-9.

Delayed bilateral median nerve injury due to low-tension electric current. Parano E, et al. **Neuropediatrics** 1996 Apr; 27(2):105-7

[Radiologic skeletal diagnosis: traumatology of the distal forearm, the wrists and the hand] Neumann K, et al. **Aktuelle Radiol** 1996 Jul;6(4):171-5 (15 ref.) (Eng. Abstr.) **(Ger)**

[Rupture or stress injury of the flexor tendon pulleys? Early diagnosis with MRI] Gabl M, et al. **Handchir Mikrochir Plast Chir** 1996 Nov;28(6):317-21 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Injecting soft tissue lesions of the hand and wrist. Wadsworth TG. **Practitioner** 1996 Aug;240(1565):482-5

EPIDEMIOLOGY

Methodological limitations in the study of video display terminal use and upper extremity musculoskeletal disorders. Gerr F, et al. **Am J Ind Med** 1996 Jun;29(6):649-56 (38 ref.)

Maine students' musculoskeletal injuries attributed to harvesting blueberries [letter] Millard PS, et al. **Am J Public Health** 1996 Dec;86(12):1821-2

Influence of blunt needles on surgical glove perforation and safety for the surgeon. Mingoli A, et al. **Am J Surg** 1996 Nov;172(5):512-6; discussion 516-7

Iron burns to the hand in the young pediatric patient: a problem in prevention. Brown RL, et al. **J Burn Care Rehabil** 1997 May-Jun;18(3):279-82

Hand therapy trends in a changing South Africa. Pietrobon C. **J Hand Ther** 1996 Oct-Dec;9(4):299-302

ETIOLOGY

Multiple carpometacarpal dislocations. A case report and review of treatment. Smith GR, et al. **Am J Orthop** 1996 Jul;25(7):502-6 (16 ref.)

The beefburger injury: a retrospective survey. Jigjinni VS, et al. **BMJ** 1997 Sep 6;315(7108):580

Sports injuries of the hand and wrist. Barton N. **Br J Sports Med** 1997 Sep;31(3):191-6 (50 ref.)

Unusual ritual burns of the hand. Tay YG, et al. **Burns** 1996 Aug;22(5):409-12

The occlusive effects of protective gloves on the barrier properties of the stratum corneum. Graves CJ, et al. **Curr Probl Dermatol** 1995;23:87-94

Hand-arm symptoms related to impact and nonimpact hand-held power tools. Kihlberg S, et al. **Int Arch Occup Environ Health** 1997;69(4):282-8

Needle stick injury. Reducing the risk. Rice JJ, et al. **Int Orthop** 1996;20(3):132-3

Repetitive strain: putting it in perspective [editorial; comment] Manske PR. **J Hand Surg [Am]** 1997 Jan;22(1):1 . Comment on: J Hand Surg [Am] 1997 Jan;22(1):2-18. Comment on: J Hand Surg [Am] 1997 Jan;22(1):19-29.

The consequences of punching glass. Bokhari AA, et al. **J Hand Surg [Br]** 1997 Apr;22(2):202-3

Predisposing factors to industrial hand injuries in Saudi Arabia. al Zahrani S, et al. **J Hand Surg [Br]** 1997 Feb; 22(1):131-2

A survey of croquet injuries. Appleton DR. **J R Soc Med** 1997 Apr;90(4):218-20

Pediatric hand injuries due to exercise bicycles. Lehrer MS, et al. **J Trauma** 1997 Jul;43(1):100-2

Ax injuries of the hand. Muir L, et al. **J Trauma** 1997 May; 42(5):927-32 (9 ref.)

Plastic syringe shaft fracture as a risk for percutaneous injury during performance of interventional procedures [letter] Sandhu JS, et al. **J Vasc Interv Radiol** 1995 Nov-Dec; 6(6):987-8

Risks associated with occupational glass injury in bar staff with special consideration of hepatitis B infection. McLean W, et al. **Occup Med (Oxf)** 1997 Apr;47(3):147-50

Severe infections following fish bone and spine injuries. de Wind CM. **Trop Doct** 1996 Oct;26(4):168-9

[High-pressure injection injuries--underlying traumas are often disguised] Rotwitt AM, et al. **Ugeskr Laeger** 1997 Mar 10;159(11):1623-4 (Eng. Abstr.) **(Dan)**

[Burns risk caused by the interaction of NIR at radiofrequency and metal structures at a building site] Valoti E, et al. **G Ital Med Lav Ergon** 1996 Jan-May; 18(1-3):57-61 (Eng. Abstr.) **(Ita)**

[Injuries caused by motorized lawn mowers--hand injuries the most common ones] Alm P, et al. **Nord Med** 1996 Sep; 111(7):222-4 (Eng. Abstr.) **(Swe)**

HISTORY

[Contribution to medical history. Hand surgery by Lorenz Heister (1683 to 1758). On the status of hand surgery in Germany in the first half of the 18th century] Nigst H. **Handchir Mikrochir Plast Chir** 1997 May;29(3):114-23 **(Ger)**

MICROBIOLOGY

Clenched-fist injury complicated by methicillin-resistant Staphylococcus aureus. Berlet G, et al. **Can J Surg** 1997 Aug;40(4):313-4

PHYSIOPATHOLOGY

Overuse syndromes of the hand and wrist. Verdon ME.

HAND INJURIES

Prim Care 1996 Jun;23(2):305–19 (44 ref.)

PREVENTION & CONTROL

Influence of blunt needles on surgical glove perforation and safety for the surgeon. Mingoli A, et al. **Am J Surg** 1996 Nov;172(5):512–6; discussion 516–7

Needle puncture resistance of surgical gloves, finger guards, and glove liners. Leslie LF, et al. **J Biomed Mater Res** 1996 Spring;33(1):41–6

Effect of puncture resistant surgical gloves, finger guards, and glove liners on cutaneous sensibility and surgical psychomotor skills. Woods JA, et al.
J Biomed Mater Res 1996 Spring;33(1):47–51

PSYCHOLOGY

Explaining disablement in modern times: hand-injured workers' accounts of their injuries in Hong Kong. Cheng YH. **Soc Sci Med** 1997 Sep;45(5):739–50

RADIOGRAPHY

Imaging of acute injuries to the wrist and hand. Gilbert TJ, et al. **Radiol Clin North Am** 1997 May;35(3):701–25 (58 ref.)

Fractures of the hands and feet in child abuse: imaging and pathologic features. Nimkin K, et al. **Radiology** 1997 Apr; 203(1):233–6

REHABILITATION

Rehabilitation intervention for patients with upper extremity dysfunction: challenges of outcome evaluation. Stiens SA, et al. **Am J Ind Med** 1996 Jun;29(6):590–601 (72 ref.)

Educational techniques used in occupational therapy treatment of cumulative trauma disorders of the elbow, wrist, and hand. Lawler AL, et al. **Am J Occup Ther** 1997 Feb;51(2):113–8

3rd Congress of the Federation of the European Societies for Surgery of the Hand and European Federation of Hand Therapists. Paris, 10–13 April 1996. Abstracts.
J Hand Surg [Br] 1996 Apr;21 Suppl 1:1–47

Grip free wrist strengthening. Emerson SA. **J Hand Ther** 1997 Jan–Mar;10(1):48

The use of synthetic plaster casting tape for hand and wrist splints. Mazon C, et al. **J Hand Ther** 1996 Oct–Dec; 9(4):391–3

Some aspects of the history of rehabilitation of the hand [editorial] Parry CB. **J Hand Ther** 1997 Jul–Sep; 10(3):199–205

Postoperative management of extensor tendon repairs in zones V, VI, and VII. Thomas D, et al. **J Hand Ther** 1996 Oct–Dec;9(4):309–14 (24 ref.)

[Rehabilitation of hand injured co-workers from the occupational medicine viewpoint (exemplified by a chassis and montage automobile industry] Harwerth A.
Handchir Mikrochir Plast Chir 1997 Jul;29(4):218–21 (Eng. Abstr.) **(Ger)**

[Occupational therapy in the rehabilitation of patients with pathology of the hand] Novikov AV, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1996 Sep–Oct;(5):32–5 **(Rus)**

SURGERY

The primary treatment of severe burn hand by flap plastic. Bucek S. **Acta Chir Plast** 1995;37(3):83–8

Absorbable pins in the treatment of hand fractures. Pelto-Vasenius K, et al. **Ann Chir Gynaecol** 1996; 85(4):353–8

The radial Chinese flap at the expense of the palmar radiocarpal arch. A case report. Gutierrez de la Cámara A, et al. **Ann Chir Main Memb Super** 1997;16(2):111–7

Endoscopic retrieval of severed flexor tendons: a study of technique using cadaveric hands. Hill BB, et al.
Ann Plast Surg 1997 May;38(5):446–8

Foreign-body sensation following 3M coupler use in the hand. Kind GM, et al. **Ann Plast Surg** 1996 Oct; 37(4):418–21

Nonmicrosurgical use of an osteocutaneous parascapular flap for reconstruction of a complex hand defect. Mutaf M, et al. **Ann Plast Surg** 1997 May;38(5):531–5

Treatment of a degloved hand injury by arteriovenous anastomosis: a case report. Takeuchi M, et al.
Ann Plast Surg 1997 Aug;39(2):174–7

Free temporal fascial flap for coverage and extensor tendon reconstruction. Watanabe T, et al. **Ann Plast Surg** 1996 Nov;37(5):469–72

Successful hand revascularization with urokinase following a crush injury. Wheatley MJ, et al. **Ann Plast Surg** 1997 Jul;39(1):94–6

Free musculofasciocutaneous medial plantar flap for reconstruction of thenar defects. Işik S, et al.
Br J Plast Surg 1997 Feb;50(2):116–20

Free flap coverage of the hand. Brown DM, et al.
Clin Plast Surg 1997 Jan;24(1):57–62 (22 ref.)

Fractures of the hand. Corley FG Jr, et al.
Clin Plast Surg 1996 Jul;23(3):447–62 (63 ref.)

Reconstruction of the hand with forearm island flaps. Martin D, et al. **Clin Plast Surg** 1997 Jan;24(1):33–48 (27 ref.)

Escalator injuries in Genevan children: a report of 6 cases. Quinodoz P, et al. **Eur J Pediatr Surg** 1996 Aug;6(4):225–7

Neurosensory free flaps. Digits and hand. Halbert CF, et al. **Hand Clin** 1997 May;13(2):251–62 (58 ref.)

Tissue expansion in the upper extremities. Meland NB, et al. **Hand Clin** 1997 May;13(2):303–14 (24 ref.)

Pedicle flaps for coverage of the wrist and hand. Mih AD. **Hand Clin** 1997 May;13(2):217–29 (46 ref.)

Composite free flaps to the hand. Wood MB. **Hand Clin** 1997 May;13(2):231–8 (26 ref.)

Complete avulsion of a tendon of flexor digitorum profundus from its myotendinous junction [letter] Kay AR, et al.
Injury 1996 Dec;27(10):755

The management of human bite injuries of the hand. Kelly IP, et al. **Injury** 1996 Sep;27(7):481–4

Revascularization of degloving injuries of the limbs. Waikakul S. **Injury** 1997 May;28(4):271–4

Distal-based flaps for reconstruction of hand burns. Hallock GG. **J Burn Care Rehabil** 1997 Jul–Aug;18(4):332–7

Magnetic resonance imaging characteristics of a lead pencil foreign body in the hand. Nelson EW, et al.
J Hand Surg [Am] 1996 Jan;21(1):100–3

Innervated radial thenar flap for sensory reconstruction of fingers. Omokawa S, et al. **J Hand Surg [Am]** 1996 May; 21(3):373–80

Replantation and revascularization at the transmetacarpal level: long-term functional results. Weinzweig N, et al.
J Hand Surg [Am] 1996 Sep;21(5):877–83

3rd Congress of the Federation of the European Societies for Surgery of the Hand and European Federation of Hand Therapists. Paris, 10–13 April 1996. Abstracts.
J Hand Surg [Br] 1996 Apr;21 Suppl 1:1–47

The distally based ulnar artery island flap in hand reconstruction. Grobbelaar AO, et al. **J Hand Surg [Br]** 1997 Apr;22(2):204–11

Anterior transposition of the posterior interosseous artery flap through the interosseous membrane. Gupta A, et al.
J Hand Surg [Br] 1997 Feb;22(1):32–3

"Through-glass" injuries. Irwin LR, et al.
J Hand Surg [Br] 1996 Dec;21(6):788–91

Biodegradable pins versus Kirschner wires in hand surgery. Jensen CH, et al. **J Hand Surg [Br]** 1996 Aug;21(4):507–10

Mechanical properties of various circumferential tendon suture techniques. Kubota H, et al. **J Hand Surg [Br]** 1996 Aug;21(4):474–80

A comparative mechanical analysis of plate fixation in a proximal phalangeal fracture model. Lins RE, et al.
J Hand Surg [Br] 1996 Nov;21(6):1059–64

Partial lacerations of flexor tendons in children. Primary repair versus conservative treatment. Stahl S, et al.
J Hand Surg [Br] 1997 Jun;22(3):377–80

Irreducible fracture of the neck of the fifth metacarpal. Watanabe K, et al. **J Hand Surg [Br]** 1996 Aug;21(4):511–3

Role of regional anaesthesia and a modified technique of fish-hook removal. Abid SA, et al. **J Indian Med Assoc** 1996 Aug;94(8):323

The arterialized antebrachial skin flap for hand reconstruction. Reynoso R, et al. **J Reconstr Microsurg** 1997 May;13(4):267–75

Tire explosion injuries to the upper extremity. Blechner MH, et al. **J South Orthop Assoc** 1995 Winter;4(4):255–62

Laser Doppler evaluation of burned hands predicts need for surgical grafting. Schiller WR, et al. **J Trauma** 1997 Jul; 43(1):35–9; discussion 39–40

First web space reconstruction by a free flap from the contralateral paralysed hand. Adani R, et al.
Microsurgery 1995;16(12):827–9

The salvage of a degloved hand skin flap by arteriovenous shunting [letter; comment] Balakrishnan C.
Plast Reconstr Surg 1997 Jun;99(7):2105. Comment on: Plast Reconstr Surg 1996 Jul;98(1):146–50.

Reconstruction of a sagittal band and extensor tendon centralization using a palmaris longus tendon graft. Bradley TM, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1176–9

Unusual evolution of a revascularized high-voltage-injured hand [letter] Cavadas PC, et al. **Plast Reconstr Surg** 1996 Oct;98(5):914–5

Composite osteoarthrotenocutaneous free flap from the foot for reconstruction of an unusual hand wound. Muirragui AG, et al. **Plast Reconstr Surg** 1997 Sep;100(4):986–90

Closure of upper extremity soft-tissue defects using the new "supra-crest" fasciocutaneous free flap. Safak T, et al.
Plast Reconstr Surg 1997 Apr;99(4):1154–9

A new flap from the dorsum of the first intermetacarpal area: the first dorsal intermetacarpal flap. Tezcan M, et al.
Plast Reconstr Surg 1997 Sep;100(4):914–8

The posterior interosseous flap for soft-tissue cover of the hand. Engelbrecht JJ, et al. **S Afr J Surg** 1996 Nov; 34(4):194–6

Timing of free microsurgical tissue transfer for the acute phase of hand injuries. Brenner P, et al.
Scand J Plast Reconstr Surg Hand Surg 1997 Jun; 31(2):165–70

[Clinical application of the bilobed flap with first volardorsal artery in repair of the hand] Zhang Z, et al.
Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih 1995 May;11(3):222–4 (Eng. Abstr.) **(Chi)**

[Post-traumatic stress syndrome in surgery of the hand] Smaga D, et al. **Ann Chir Main Memb Super** 1997; 16(1):25–31 (Eng. Abstr.) **(Fre)**

[AO external mini-fixateur for the hand bones. Surgical technique and initial experiences] Fricker R, et al.
Chirurg 1996 Jul;67(7):760–3 (Eng. Abstr.) **(Ger)**

[Causes for reoperations after osteosyntheses of finger and mid-hand fractures] Bartelmann U, et al.
Handchir Mikrochir Plast Chir 1997 Jul;29(4):204–8 (Eng. Abstr.) **(Ger)**

[Possibilities and limits of intramedullary Kirschner wire osteosynthesis in treatment of metacarpal fractures] Larkin G, et al. **Handchir Mikrochir Plast Chir** 1997 Jul; 29(4):192–6 (Eng. Abstr.) **(Ger)**

[Intramedullary osteosynthesis of distal metacarpal fractures with curved wires] Schlageter M, et al.
Handchir Mikrochir Plast Chir 1997 Jul;29(4):197–203 (Eng. Abstr.) **(Ger)**

[Infections of the hand] Hoffmann R.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:718–20 **(Ger)**

[Traumatic axial dislocation injury of the carpus and metacarpus with triquetrum fracture. Rare entity or typical injury] Richter D, et al. **Unfallchirurg** 1997 Jun; 100(6):502–5 (Eng. Abstr.) **(Ger)**

[Hand reconstruction and prosthesis] Borovikov AM, et al.
Vestn Khir Im I I Grek 1996;155(3):40–4 (Eng. Abstr.) **(Rus)**

THERAPY

The use of calcium alginate dressings in deep hand burns. Kneafsey B, et al. **Burns** 1996 Feb;22(1):40–3

Combined thermal and crush injury to the hand and fingers. Sagi A, et al. **Burns** 1997 Mar;23(2):176–81

Variability of short arm cast application: the influence of experience using fibreglass tape and QuickCast. Cohen MS.
Injury 1997 Jan;28(1):19–23

Sports injuries of the hand. Palmer RE.
Instr Course Lect 1994;43:25–30 (1 ref.)

Hand over glove [letter] Southern S, et al.
J Hand Surg [Br] 1997 Jun;22(3):428

Oral antimicrobials in compound fracture of the hand: comparison of dicloxacillin and ofloxacin. Waikakul S, et al. **J Med Assoc Thai** 1996 Sep;79(9):585–8

ULTRASONOGRAPHY

Colour doppler ultrasound examination of hand tendon pathologies. A preliminary report. Buyruk HM, et al.
J Hand Surg [Br] 1996 Aug;21(4):469–73

Traumatic aneurysm of a common digital artery. Cromheecke M, et al. **J Hand Surg [Br]** 1997 Jun;22(3):416–8

VIROLOGY

Hand trauma and herpes infection. Starley IF, et al.
J Hand Surg [Br] 1996 Oct;21(5):681–2

HAND STRENGTH

Hand grip increases shoulder muscle activity, An EMG analysis with static hand contractions in 9 subjects. Sporrong H, et al. **Acta Orthop Scand** 1996 Oct; 67(5):485–90

How forearm position affects grip strength. Richards LG, et al. **Am J Occup Ther** 1996 Feb;50(2):133–8

Capuchin monkey (Cebus apella) grips for the use of stone tools. Westergaard GC, et al. **Am J Phys Anthropol** 1997 May;103(1):131–5

Effects of finger and wrist taping on grip strength. Rettig AC, et al. **Am J Sports Med** 1997 Jan–Feb;25(1):96–8

Reproducibility of conventional and power spectral measurements of cardiovascular sympathetic activation in normal subjects. Taverner D, et al.
Clin Exp Pharmacol Physiol 1996 Sep;23(9):804–6

Assessments of disability in women with rheumatoid arthritis in relation to grip force and pain. Nordenskiöld U, et al.
Disabil Rehabil 1997 Jan;19(1):13–9

Electromyographic validation of basic exercises for physical conditioning programmes. III. Influence of the grip in the capacity of the rowing exercises in determining action potential levels for the deltoid and the pectoralis major muscle. Ferreira MI, et al.
Electromyogr Clin Neurophysiol 1996 Mar;36(2):86–90

Detecting submaximal grip exertions of variable effort by electromyography. Niebuhr BR.
Electromyogr Clin Neurophysiol 1996 Mar;36(2):113–20

Reliability of a hand gripping endurance test. Capodaglio P, et al. **Ergonomics** 1997 Apr;40(4):428–34

Individual finger forces acting on a grasped object during shaking actions. Kinoshita H, et al. **Ergonomics** 1996 Feb; 39(2):243–56

Influences of handgrip on shoulder muscle activity. Sporrong H, et al. **Eur J Appl Physiol** 1995;71(6):485–92

Comparison between estimates of hand volume and hand strengths with sex and age with and without anthropometric data in healthy working people. Chau N, et al. **Eur J Epidemiol** 1997 Apr;13(3):309–16

The alien grasp reflex. Silva MT, et al. **Eur Neurol** 1996; 36(1):55–6

Nondigital afferent input in reactive control of fingertip forces during precision grip. Häger-Ross C, et al.
Exp Brain Res 1996 Jun;110(1):131–41

Grip-force responses to unanticipated object loading: load direction reveals body- and gravity-referenced intrinsic task variables. Häger-Ross C, et al. **Exp Brain Res** 1996 Jun;110(1):142–50

Symmetric and asymmetric two-handed pull-push strength of young adults. Kumar S, et al. **Hum Factors** 1995 Dec; 37(4):854–65

A low-cost instrumented glove for monitoring forces during object manipulation. Castro MC, et al.

IEEE Trans Rehabil Eng 1997 Jun;5(2):140–7
Influence of local vibration on finger functions of forest workers. Tanaka M, et al. **Ind Health** 1997 Jul;35(3):337–42
Resection of the proximal row of the carpus. A review of 45 cases. Alnot JY, et al. **Int Orthop** 1997;21(3):145–50
Hydro-resistive measurement of dynamic lifting strength. Pinder AD, et al. **J Biomech** 1997 Apr;30(4):399–402
Two years of growth hormone (GH) treatment increase isometric and isokinetic muscle strength in GH-deficient adults. Johannsson G, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2877–84
Grip force reduction in patients with tennis elbow: influence of elbow position. De Smet L, et al. **J Hand Ther** 1997 Jul–Sep;10(3):229–31
Wasting, weakness, and the MRC scale in the first dorsal interosseous muscle [letter] Mills KR.
J Neurol Neurosurg Psychiatry 1997 May;62(5):541–2
The role of internal models in motion planning and control: evidence from grip force adjustments during movements of hand-held loads. Flanagan JR, et al. **J Neurosci** 1997 Feb 15;17(4):1519–28
Manual muscle test score and force comparisons after cervical spinal cord injury. Needham-Shropshire BM, et al. **J Spinal Cord Med** 1997 Jul;20(3):324–30
A simple and inexpensive pinch meter to detect subclinical weakness among leprosy patients. Soares D, et al.
Lepr Rev 1997 Mar;68(1):55–60
Strength-duration properties of sensory and motor axons in carpal tunnel syndrome. Mogyoros I, et al.
Muscle Nerve 1997 Apr;20(4):508–10
The effect of Huntington's disease and Gilles de la Tourette's syndrome on the ability to hold and shift attention. Georgiou N, et al. **Neuropsychologia** 1996 Sep;34(9):843–51
Inverse relationship between sensation of effort and muscular force during recovery from pure motor hemiplegia: a single-case study. Rode G, et al. **Neuropsychologia** 1996 Feb;34(2):87–95
Grip strength and intertrial rest. Dunwoody L, et al.
Percept Mot Skills 1996 Aug;83(1):275–8
Effects of pretest stimulative and sedative music on grip strength. Karageorghis CI, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1347–52
Effects of task instructions and oscillation frequency on bimanual coordination. Lee TD, et al. **Psychol Res** 1996; 59(2):100–6
Effect of clozapine on motor function in schizophrenic patients [published erratum appears in Schizophr Res 1996 Dec 15;22(3):269] Vrtunski PB, et al. **Schizophr Res** 1996 May;20(1–2):187–98
Methods for measuring maximal isometric grip strength during short and sustained contractions, including intra-rater reliability. Lagerström C, et al.
Ups J Med Sci 1996;101(3):273–85
[Indicators of circulation, respiration and muscle strength in puberty] Knussmann R, et al. **Z Morphol Anthropol** 1995 Dec;81(1):101–10 (Eng. Abstr.) **(Ger)**
[Control of the hand and its grip. Memory and touch perception are crucial factors] Olsson T. **Lakartidningen** 1997 Sep 10;94(37):3169–70, 3173 **(Swe)**

PHYSIOLOGY

Measurement of coronary blood flow velocity during handgrip exercise using breath-hold velocity encoded cine magnetic resonance imaging. Globits S, et al.
Am J Cardiol 1997 Jan 15;79(2):234–7
Isometric handgrip exercise increases endothelin-1 plasma levels in patients with chronic congestive heart failure. Mangieri E, et al. **Am J Cardiol** 1997 May 1;79(9):1261–3
Precision grips, hand morphology, and tools. Marzke MW.
Am J Phys Anthropol 1997 Jan;102(1):91–110 (68 ref.)
Is endurance performance of handgrip exercise influenced by the two different clothing ensembles? Jeong YO, et al.
Appl Human Sci 1996 Nov;15(6):275–9
Restoration of lateral hand grasp using natural sensors. Haugland M, et al. **Artif Organs** 1997 Mar;21(3):250–3
Grasping of virtual objects in changed gravity. Bock O.
Aviat Space Environ Med 1996 Dec;67(12):1185–9
Force and the motor cortex. Ashe J. **Behav Brain Res** 1997 Jun;86(1):1–15 (75 ref.)
Hand grip strength: an indicator of nutritional state and the mix of postoperative complications in patients with oral and maxillofacial cancers. Guo CB, et al.
Br J Oral Maxillofac Surg 1996 Aug;34(4):325–7
The bilateral reach-to-grasp movement of Parkinson's disease subjects. Castiello U, et al. **Brain** 1997 Apr;120 (Pt 4):593–604
Modulation of corticospinal influence over hand muscles during gripping tasks in man and monkey. Lemon RN, et al. **Can J Physiol Pharmacol** 1996 Apr;74(4):547–58 (67 ref.)
Development of a grip force dependent hand-arm vibration model. Gurram R, et al. **Cent Eur J Public Health** 1996 Feb;4(1):65–8
The value of the isometric hand-grip test--studies in various autonomic disorders. Khurana RK, et al.
Clin Auton Res 1996 Aug;6(4):211–8
Influence of muscle blood flow on fatigue during intermittent human hand-grip exercise and recovery. Pitcher JB, et al.
Clin Exp Pharmacol Physiol 1997 Jul;24(7):471–6
Aetiology of work-related carpal tunnel syndrome: the role of lumbrical muscles and tool size on carpal tunnel pressures. Cobb TK, et al. **Ergonomics** 1996 Jan;39(1):103–7
Effect of work glove and type of muscle action on grip fatigue. Fleming SL, et al. **Ergonomics** 1997 Jun; 40(6):601–12
A comparison of prehension force control in young and elderly individuals. Kinoshita H, et al.
Eur J Appl Physiol 1996;74(5):450–60
Size illusion influences how we lift but not how we grasp an object. Brenner E, et al. **Exp Brain Res** 1996 Oct; 111(3):473–6
Integrated control of hand transport and orientation during prehension movements. Desmurget M, et al.
Exp Brain Res 1996 Jul;110(2):265–78
Development of human precision grip. V. anticipatory and triggered grip actions during sudden loading. Eliasson AC, et al. **Exp Brain Res** 1995;106(3):425–33
Tactile input of the hand and the control of reaching to grasp movements. Gentilucci M, et al. **Exp Brain Res** 1997 Mar; 114(1):130–7
Control of grip force during restraint of an object held between finger and thumb: responses of cutaneous afferents from the digits. Macefield VG, et al. **Exp Brain Res** 1996 Feb;108(1):155–71
Control of grip force during restraint of an object held between finger and thumb: responses of muscle and joint afferents from the digits. Macefield VG, et al.
Exp Brain Res 1996 Feb;108(1):172–84
Prehension of objects oriented in three-dimensional space. Mamassian P. **Exp Brain Res** 1997 Apr;114(2):235–45
The removal of binocular cues disrupts the calibration of grasping in patients with visual form agnosia. Marotta JJ, et al. **Exp Brain Res** 1997 Aug;116(1):113–21
Influence of object position and size on human prehension movements. Paulignan Y, et al. **Exp Brain Res** 1997 Apr; 114(2):226–34
Localization of grasp representations in humans by PET: 1. Observation versus execution. Rizzolatti G, et al.
Exp Brain Res 1996 Sep;111(2):246–52
Scopolamine increases prehensile force during object manipulation by reducing palmar sweating and decreasing skin friction. Smith AM, et al. **Exp Brain Res** 1997 May; 114(3):578–83
Pinch force matching errors predicted by an equilibrium-point model. Van Doren CL.
Exp Brain Res 1995;106(3):488–92
Anticipatory postural adjustments in stance and grip. Wing AM, et al. **Exp Brain Res** 1997 Aug;116(1):122–30
Minimizing fatigue during repetitive jobs: optimal work-rest schedules. Wood DD, et al. **Hum Factors** 1997 Mar; 39(1):83–101
Input-output nonlinearities and time delays increase tracking errors in hand grasp neuroprostheses. Adamczyk MM, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):271–9 (18 ref.)
Tri-state myoelectric control of bilateral upper extremity neuroprostheses for tetraplegic individuals. Scott TR, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):251–63 (25 ref.)
Development of an upper extremity FES system for individuals with C4 tetraplegia. Smith BT, et al.
IEEE Trans Rehabil Eng 1996 Dec;4(4):264–70 (26 ref.)
Pranayama increases grip strength without lateralized effects. Raghuraj P, et al. **Indian J Physiol Pharmacol** 1997 Apr; 41(2):129–33
Temporary threshold shift of vibratory sensation induced by a vibrating handle and its gripping force. Nishiyama K, et al. **Int Arch Occup Environ Health** 1996;69(1):45–52
Strength, balance and gait before and after kidney transplantation. Bohannon RW, et al. **Int J Rehabil Res** 1997 Jun;20(2):199–203
Mechanisms regulating regional cerebral activation during dynamic handgrip in humans. Williamson JW, et al.
J Appl Physiol 1996 Nov;81(5):1884–90
Effect of physical activity as a caddie on ultrasound measurements of the Os calcis: a cross-sectional comparison. Hoshino H, et al. **J Bone Miner Res** 1996 Mar; 11(3):412–8
Sensitivity of the Jamar Dynamometer in detecting submaximal grip effort. Ashford RF, et al.
J Hand Surg [Am] 1996 May;21(3):402–5
Which setting of the dynamometer provides maximal grip strength? Firrell JC, et al. **J Hand Surg [Am]** 1996 May; 21(3):397–401
Efficiency of the flexor tendon pulley system in human cadaver hands. Rispler D, et al. **J Hand Surg [Am]** 1996 May;21(3):444–50
The EFFUL (Evaluation of Function in the Flail Upper Limb) system. A ranking score system to measure improvement achieved by surgical reconstruction and rehabilitation. Eggers IM, et al. **J Hand Surg [Br]** 1997 Jun;22(3):388–94
Grip and pinch strength variations in different types of workers. Josty IC, et al. **J Hand Surg [Br]** 1997 Apr; 22(2):266–9
Principles of conservative management for a non-orthotic tenodesis grip in tetraplegics. Harvey L. **J Hand Ther** 1996 Jul–Sep;9(3):238–42
Strength measurements of the lumbrical muscles. Schreuders TA, et al. **J Hand Ther** 1996 Oct–Dec;9(4):303–5
Friction, not texture, dictates grip forces used during object manipulation. Cadoret G, et al. **J Neurophysiol** 1996 May; 75(5):1963–9
Visual and somatosensory information about object shape control manipulative fingertip forces. Jenmalm P, et al.
J Neurosci 1997 Jun 1;17(11):4486–99
Coherent oscillations in monkey motor cortex and hand muscle EMG show task-dependent modulation. Baker SN, et al. **J Physiol (Lond)** 1997 May 15;501 (Pt 1):225–41
Instrumented objects for quantitative evaluation of hand grasp. Memberg WD, et al. **J Rehabil Res Dev** 1997 Jan; 34(1):82–90
Acute changes in handgrip strength, endurance, and blood lactate with sustained sport rock climbing. Watts P, et al.
J Sports Med Phys Fitness 1996 Dec;36(4):255–60
Disturbances of precision grip in Huntington's disease. Fellows S, et al. **Neurosci Lett** 1997 Apr 25;226(2):103–6
Object release in patients with Parkinson's disease. Gordon AM. **Neurosci Lett** 1997 Aug 22;232(1):1–4
Representation of reaching and grasping in the monkey postcentral gyrus. Iwamura Y, et al. **Neurosci Lett** 1996 Aug 23;214(2–3):147–50
Temporal control of the reach and grip components during a prehension task in humans. Timmann D, et al.
Neurosci Lett 1996 Mar 29;207(2):133–6
Effect of transcutaneous electrical nerve stimulation on the pressor response to static handgrip exercise. Hollman JE, et al. **Phys Ther** 1997 Jan;77(1):28–36
Is body powered operation of upper limb prostheses feasible for young limb deficient children? Shaperman J, et al.
Prosthet Orthot Int 1995 Dec;19(3):165–75
[Transmission of pronation-supination movements in the wrist] Roux JL, et al. **Ann Chir Main Memb Super** 1996; 15(3):167–80 (Eng. Abstr.) **(Fre)**
[Pinch deficit of the thumb-index finger due to a lesion of the anterior interosseous nerve. Apropos of 17 cases] Seror P. **Ann Chir Main Memb Super** 1997;16(2):118–22; discussion 123 (Eng. Abstr.) **(Fre)**
[Restoration of grip function in both hands after frostbite of all fingers and toes. A case report] Hofmann AK, et al. **Handchir Mikrochir Plast Chir** 1997 Jan;29(1):50–4 (Eng. Abstr.) **(Ger)**

HANDEDNESS see **LATERALITY**

HANDICAPPED see **DISABLED**

HANDLING (PSYCHOLOGY)

Differential effects of communal rearing and preweaning handling on open-field behavior and hot-plate latencies in mice. Clausing P, et al. **Behav Brain Res** 1997 Jan; 82(2):179–84
Maternal handling during pregnancy reduces DMBA-induced mammary tumorigenesis among female offspring. Hilakivi-Clarke L. **Br J Cancer** 1997;76(2):150–5
Influence of different handling methods and crating periods on plasma corticosterone concentrations in broilers. Kannan G, et al. **Br Poult Sci** 1996 Mar;37(1):21–31
Plaque-forming cell responses and antibody titers following injection of sheep red blood cells in nonstressed, acute, and/or chronically stressed handled and nonhandled animals. Bhatnagar S, et al. **Dev Psychobiol** 1996 Mar; 29(2):171–81
Factors that impede animal movement at slaughter plants. Grandin T. **J Am Vet Med Assoc** 1996 Aug 15;209(4):757–9
Discrimination of people by dairy cows based on handling. Munksgaard L, et al. **J Dairy Sci** 1997 Jun;80(6):1106–12
Changes in tonic immobility and the GABA-benzodiazepine system in response to handling in the chick. Fluck E, et al. **Pharmacol Biochem Behav** 1997 Sep;58(1):269–74
Effects of postnatal handling of rats on emotional, HPA-axis, and prolactin reactivity to novelty and conflict. Núñez JF, et al. **Physiol Behav** 1996 Nov;60(5):1355–9
The wish to be held: female patients with borderline personality disorder. Hayashi N.
Psychiatry Clin Neurosci 1996 Oct;50(5):267–70
The importance of a well-groomed child [comment] Sapolsky RM. **Science** 1997 Sep 12;277(5332):1620–1. Comment on: Science 1997 Sep 12;277(5332):1659–62.
Extensive handling of rats leads to mild urinary bladder hyperplasia. Cohen SM, et al. **Toxicol Pathol** 1996 Mar–Apr;24(2):251–7

HANDWASHING

Is handwashing teachable?: failure to improve handwashing behavior in an urban emergency department. Dorsey ST, et al. **Acad Emerg Med** 1996 Apr;3(4):360–5
A multifaceted approach to changing handwashing behavior. Larson EL, et al. **Am J Infect Control** 1997 Feb;25(1):3–10
Ritual handwashing [letter] Lewis RA. **Am J Psychiatry** 1997 Aug;154(8):1172–3
An audit of theatre scrubrooms in a district general hospital. Morgan-Jones RL, et al. **Ann R Coll Surg Engl** 1997 Jul; 79(4):296–8
No time for handwashing!? Handwashing versus alcoholic rub: can we afford 100% compliance? Voss A, et al.
Infect Control Hosp Epidemiol 1997 Mar;18(3):205–8
Measurement of the skin-cleaning effects of soaps. Wolf R, et al. **Int J Dermatol** 1996 Aug;35(8):598–600
Hand-washing frequency and factors that influence it in a family practice clinic. Whyte BS, et al.
J Am Board Fam Pract 1997 May–Jun;10(3):229–31
Neglected but common sense steps to prevent foodborne illness [news] Reed CA, et al. **J Am Vet Med Assoc** 1996 Sep 15;209(6):1053
Observations on handwashing practices of mothers and

HANDWASHING

environmental conditions in Ona-Ara Local Government Area of Oyo State, Nigeria. Omotade OO, et al. **J Diarrhoeal Dis Res** 1995 Dec;13(4):224–8

Hand washing with soap reduces diarrhoea and spread of bacterial pathogens in a Bangladesh village. Shahid NS, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):85–9

Infection control: the never-ending saga [editorial] Bishop BE. **MCN Am J Matern Child Nurs** 1996 Mar–Apr;21(2):63

[Bacterial contamination of anesthesiologists' hands and the efficacy of handwashing] Fukada T, et al. **Masui** 1996 Aug; 45(8):1026–30 (Eng. Abstr.) **(Jpn)**

METHODS

A randomized trial of surgical scrubbing with a brush compared to antiseptic soap alone. Loeb MB, et al. **Am J Infect Control** 1997 Feb;25(1):11–5

The effect of rings on microbial load of health care workers' hands. Salisbury DM, et al. **Am J Infect Control** 1997 Feb; 25(1):24–7

Effect of surgical hand scrub time on subsequent bacterial growth. Wheelock SM, et al. **AORN J** 1997 Jun; 65(6):1087–92; 1094–8

An evaluation of five protocols for surgical handwashing in relation to skin condition and microbial counts. Pereira LJ, et al. **J Hosp Infect** 1997 May;36(1):49–65

Efficacy of hand washing procedures on bacterial contamination of hydrogel contact lenses. Ly VT, et al. **Optom Vis Sci** 1997 May;74(5):288–92

Comparative evaluation of two surgical scrub preparations in cattle. Desrochers A, et al. **Vet Surg** 1996 Jul–Aug; 25(4):336–41

Distribution of bacteria on hands and the effectiveness of brief and thorough decontamination procedures using non-medicated soap. Chamberlain AN, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):565–75

[Effectiveness of alcoholic hand disinfectants against methicillin resistant Staphylococcus aureus] Kampf G, et al. **Chirurg** 1997 Mar;68(3):264–8; discussion 269–70 (Eng. Abstr.) **(Ger)**

[Importance of instructing anesthesiologists in handwashing against bacterial contamination] Fukada T, et al. **Masui** 1997 Apr;46(4):552–5 (Eng. Abstr.) **(Jpn)**

[Evaluation and control of the microbiological quality of hands in foodhandlers] Almeida RC, et al. **Rev Saude Publica** 1995 Aug;29(4):290–4 (Eng. Abstr.) **(Por)**

STANDARDS

Scheduled hand washing in an elementary school population. Master D, et al. **Fam Med** 1997 May;29(5):336–9

Effects of modeling errors on the acquisition and retention of sterile hand washing task. Riolo L. **Percept Mot Skills** 1997 Feb;84(1):19–26

HANDWRITING

see related
AGRAPHIA

Factors that relate to good and poor handwriting. Cornhill H, et al. **Am J Occup Ther** 1996 Oct;50(9):732–9

Biofeedback for writer's cramp. O'Neill MA, et al. **Am J Occup Ther** 1997 Jul–Aug;51(7):605–7

Prescription errors. Legibility and drug name confusion. Brodell RT, et al. **Arch Fam Med** 1997 May–Jun;6(3):296–8

Kinematic analysis of handwriting movements in schizophrenic patients. Gallucci RM, et al. **Biol Psychiatry** 1997 Apr 1;41(7):830–3

The truth about doctors' handwriting: a prospective study. Berwick DM, et al. **BMJ** 1996 Dec 21–28;313(7072):1657–8

Botulinum toxin does not reverse the cortical dysfunction associated with writer's cramp. A PET study. Ceballos-Baumann AO, et al. **Brain** 1997 Apr;120 (Pt 4):571–82

Acquired dysgraphia in alphabetic and stenographic handwriting. Miceli G, et al. **Cortex** 1997 Jun;33(2):355–67

Movement-related cortical potentials after automatized and controlled writing-related movements. Kagerer F, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;46:323–6

Parkinsonism reduces coordination of fingers, wrist, and arm in fine motor control. Teulings HL, et al. **Exp Neurol** 1997 Jul;146(1):159–70

Handwriting changes due to aging and Parkinson's syndrome. Walton J. **Forensic Sci Int** 1997 Aug 22;88(3):197–214

Legibility and completeness of physicians' handwritten medication orders [published erratum appears in Heart Lung 1997 May–Jun;26(3):203] Winslow EH, et al. **Heart Lung** 1997 Mar–Apr;26(2):158–64

Classification of handwritten digits using a RAM neural net architecture. Jørgensen TM. **Int J Neural Syst** 1997 Feb; 8(1):17–25

Comparison of multilayer neural network and Nearest Neighbor Classifiers for handwritten digit recognition. Yan H. **Int J Neural Syst** 1995 Dec;6(4):417–23 (18 ref.)

A validation study of the influence of alcohol on handwriting. Stinson MD. **J Forensic Sci** 1997 May;42(3):411–6

Increased writing activity in neurological conditions: a review and clinical study. van Vugt P, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):510–4 (22 ref.)

Adaptive Fourier modeling for quantification of tremor. Riviere CN, et al. **J Neurosci Methods** 1997 Jun 6; 74(1):77–87

Inferring gender from handwriting in Urdu and English. Hamid S, et al. **J Soc Psychol** 1996 Dec;136(6):778–82

Poor physician penmanship. Cabral JD. **JAMA** 1997 Oct 1; 278(13):1116–7

Increased writing activity in neurological disease. Britton TC. **Lancet** 1997 Feb 8;349(9049):372–3

Fine motor and handwriting problems after treatment for childhood acute lymphoblastic leukemia. Reinders-Messelink HA, et al. **Med Pediatr Oncol** 1996 Dec;27(6):551–5

Computational analysis of open loop handwriting movements in Parkinson's disease: a rapid method to detect dopamimetic effects. Eichhorn TE, et al. **Mov Disord** 1996 May;11(3):289–97

Abnormal sensorimotor integration in writer's cramp: study of contingent negative variation. Ikeda A, et al. **Mov Disord** 1996 Nov;11(6):683–90

Does recognizing orally spelled words depend on reading? An investigation into a case of better written than oral spelling. Cipolotti L, et al. **Neuropsychologia** 1996 May; 34(5):427–40

Dysgraphia in mild dementia of Alzheimer's type. Hughes JC, et al. **Neuropsychologia** 1997 Apr;35(4):533–45

Dysgraphia and terminal delirium. Macleod AD, et al. **Palliat Med** 1997 Mar;11(2):127–32

Individual and sex differences in speed of handwriting among high school students. Cohen MR. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1428–30

Identifying sex from handwriting. Hayes WN. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):791–800

Visual cues and the handwriting of older adults: a kinematic analysis. Slavin MJ, et al. **Psychol Aging** 1996 Sep; 11(3):521–6

[Neuro-cognitive models of spelling and Alzheimer disease: mutual clarification] Eustache F, et al. **Rev Neurol (Paris)** 1996 Nov;152(11):658–68 (60 ref.) (Eng. Abstr.) **(Fre)**

[Digital handwriting recognition in data collection for autopsy reports with an Apple Newton] Schweitzer W, et al. **Pathologe** 1996 Sep;17(5):399–402 **(Ger)**

HANGANUTZIU-DEICHER ANTIBODIES see **ANTIBODIES, HETEROPHILE**

HANGANUTZIU-DEICHER ANTIGENS see **ANTIGENS, HETEROPHILE**

HANSEN'S DISEASE see **LEPROSY**

HANSENULA

Breakthrough fungemia due to Hansenula anomala in a leukemia patient successfully treated with amphotericin B [letter] Kunovà A, et al. **J Chemother** 1996 Feb;8(1):85–6

Comparison between hepatitis B surface antigen (HBsAg) particles derived from mammalian cells (CHO) and yeast cells (Hansenula polymorpha): composition, structure and immunogenicity. Diminsky D, et al. **Vaccine** 1997 Apr–May;15(6–7):637–47

[Hansenula anomala fungemia in a patient undergoing IVH-treatment with ascending colon carcinoma] Sumitomo M, et al. **Kansenshogaku Zasshi** 1996 Feb; 70(2):198–205 (27 ref.) (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Identification and characterization of cytosolic Hansenula polymorpha proteins belonging to the Hsp70 protein family. Titorenko VI, et al. **Yeast** 1996 Jul;12(9):849–57

DRUG EFFECTS

Brefeldin A interferes with peroxisomal protein sorting in the yeast Hansenula polymorpha. Salomons FA, et al. **FEBS Lett** 1997 Jul 7;411(1):133–9

Vanadium affects vacuolation and phosphate metabolism in Hansenula polymorpha. Mannazzu I, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):23–8

ENZYMOLOGY

The YNT1 gene encoding the nitrate transporter in the yeast Hansenula polymorpha is clustered with genes YNI1 and YNR1 encoding nitrite reductase and nitrate reductase, and its disruption causes inability to grow in nitrate. Pérez MD, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):397–403

Interaction between cytochrome b2 core and flavodehydrogenase from the yeast Hansenula anomala. Albani JR. **Photochem Photobiol** 1997 Jul;66(1):72–5

Flavin adenine dinucleotide binding is the crucial step in alcohol oxidase assembly in the yeast Hansenula polymorpha. Evers ME, et al. **Yeast** 1996 Aug; 12(10):917–23

GENETICS

The Hansenula polymorpha PEX14 gene encodes a novel peroxisomal membrane protein essential for peroxisome biogenesis. Komori M, et al. **EMBO J** 1997 Jan 2; 16(1):44–53

Application of yeasts in gene expression studies: a comparison of Saccharomyces cerevisiae, Hansenula polymorpha and Kluyveromyces lactis — a review. Gellissen G, et al. **Gene** 1997 Apr 29;190(1):87–97 (94 ref.)

Inducible expression of a heterologous protein in Hansenula polymorpha using the alcohol oxidase 1 promoter of Pichia pastoris. Raschke WC, et al. **Gene** 1996 Oct 24; 177(1–2):163–7

GROWTH & DEVELOPMENT

The YNT1 gene encoding the nitrate transporter in the yeast Hansenula polymorpha is clustered with genes YNI1 and YNR1 encoding nitrite reductase and nitrate reductase, and its disruption causes inability to grow in nitrate. Pérez MD, et al. **Biochem J** 1997 Jan 15;321 (Pt 2):397–403

METABOLISM

Methylotrophic yeast hansenula polymorpha as production organism for recombinant pharmaceuticals. Gellissen G, et al. **Arzneimittelforschung** 1996 Sep;46(9):943–8 (28 ref.)

Secretory heat-shock protein of the thermotolerant yeast Hansenula polymorpha. Identification and comparative characteristics. Tsiomenko AB, et al. **Biochemistry (Mosc)** 1997 Feb;62(2):123–8

Effect of metal on 2,4,5-trihydroxyphenylalanine (topa) quinone biogenesis in the Hansenula polymorpha copper amine oxidase. Cai D, et al. **J Biol Chem** 1997 Aug 1; 272(31):19277–81

Invertase secretion in Hansenula polymorpha under the AOX1 promoter from Pichia pastoris. Rodriguez L, et al. **Yeast** 1996 Jul;12(9):815–22

ULTRASTRUCTURE

Peroxisome biogenesis in the yeast Hansenula polymorpha: a structural and functional analysis. van der Klei IJ, et al. **Ann N Y Acad Sci** 1996 Dec 27;804:47–59

HANTAAN VIRUS

Puumala type hantavirus infection with early choleriform syndrome and severe multiorgan failure [letter] Thomas C, et al. **Intensive Care Med** 1997 Jun;23(6):708–9

IMMUNOLOGY

Seroepidemiology of Hantaan virus infection in Taiwan. Kao CL, et al. **J Med Virol** 1996 Dec;50(4):309–13

High prevalence of hantavirus infection in a group of Chinese patients with acute hepatitis of unknown aetiology. Meng G, et al. **J Viral Hepat** 1997 Jul;4(4):231–4

A severe case of hemorrhagic fever with renal syndrome in Singapore. Chan KP, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):408–10

[High homology between antigen of HFRSV with anti-idiotype antibody against HFRSY] Gao L, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):349–51 (Eng. Abstr.) **(Chi)**

[The diagnostic importance of determining antibodies in the urine to the virus of hemorrhagic fever with renal syndrome] Shutov AM, et al. **Ter Arkh** 1996;68(11):35–7 (Eng. Abstr.) **(Rus)**

HANTAVIRUS

Genetic susceptibility to severe course of nephropathia epidemica caused by Puumala hantavirus. Mustonen J, et al. **Kidney Int** 1996 Jan;49(1):217–21

Dobrava hantavirus in Estonia: does the virus exist throughout Europe? [letter] Plyusnin A, et al. **Lancet** 1997 May 10;349(9062):1369–70

[Hantavirus infection] Arikawa J. **Uirusu** 1996 Dec; 46(2):119–29 (76 ref.) **(Jpn)**

CHEMISTRY

The evolution of hantaviruses. Zhao X, et al. **Immunol Invest** 1997 Jan–Feb;26(1–2):191–7 (23 ref.)

Genetic characterization and phylogeny of Andes virus and variants from Argentina and Chile. López N, et al. **Virus Res** 1997 Jul;50(1):77–84

CLASSIFICATION

Rio Mamore virus: genetic characterization of a newly recognized hantavirus of the pygmy rice rat, Oligoryzomys microtis, from Bolivia. Bharadwaj M, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):368–74

Hanta is coming. Schreiner GE. **Artif Organs** 1996 May; 20(5):451–4

Hantavirus pulmonary syndrome, renal insufficiency, and myositis associated with infection by Bayou hantavirus. Hjelle B, et al. **Clin Infect Dis** 1996 Sep;23(3):495–500

The hantaviruses of Europe: from the bedside to the bench. Clement J, et al. **Emerg Infect Dis** 1997 Apr–Jun; 3(2):205–11 (46 ref.)

New hantaviruses causing hantavirus pulmonary syndrome in central Argentina [letter] Levis S, et al. **Lancet** 1997 Apr 5;349(9057):998–9

Dobrava hantavirus outbreak in Russia [letter] Lundkvist A, et al. **Lancet** 1997 Sep 13;350(9080):781–2

Hantavirus pulmonary syndrome: epidemiology, prevention, and case presentation of a new viral strain. Stelzel W. **Nurse Pract** 1996 Jun;21(6):89–90, 93, 96 passim

Characterization of Tula virus antigenic determinants defined by monoclonal antibodies raised against

baculovirus-expressed nucleocapsid protein. Lundkvist A, et al. **Virus Res** 1996 Nov;45(1):29–44

[The antigenic differentiation of hantaviruses by using monoclonal antibodies] Dzagurova TK, et al. **Med Parazitol (Mosk)** 1996 Jul–Sep;(3):47–52 (Eng. Abstr.) **(Rus)**

GENETICS

Genomic characterization of M and S RNA segments of hantaviruses isolated from bats. Jung YT, et al. **Acta Virol** 1995 Sep;39(4):231–233

Rio Mamore virus: genetic characterization of a newly recognized hantavirus of the pygmy rice rat, Oligoryzomys microtis, from Bolivia. Bharadwaj M, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):368–74

Cocirculation of multiple hantaviruses in Texas, with characterization of the small (S) genome of a previously undescribed virus of cotton rats (Sigmodon hispidus). Rawlings JA, et al. **Am J Trop Med Hyg** 1996 Dec; 55(6):672–9

The evolution of hantaviruses. Zhao X, et al. **Immunol Invest** 1997 Jan–Feb;26(1–2):191–7 (23 ref.)

Puumala hantavirus genome in patients with nephropathia epidemica: correlation of PCR positivity with HLA haplotype and link to viral sequences in local rodents. Plyusnin A, et al. **J Clin Microbiol** 1997 May;35(5):1090–6

Distribution and genetic heterogeneity of Puumala virus in Sweden. Hörling J, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2555–62

Mosaic hepatitis B virus core particles allow insertion of extended foreign protein segments. Koletzki D, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2049–53

Hantaviruses: genome structure, expression and evolution. Plyusnin A, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2677–87 (106 ref.)

Hantavirus S RNA sequence from a fatal case of HPS in New York. Huang C, et al. **J Med Virol** 1996 Sep;50(1):5–8

Quasispecies in wild-type tula hantavirus populations. Plyusnin A, et al. **J Virol** 1996 Dec;70(12):9060–3

Sin Nombre virus mRNA synthesis. Hutchinson KL, et al. **Virology** 1996 Oct 1;224(1):139–49

Unique and conserved features of Tula hantavirus M gene encoding envelope glycoproteins G1 and G2. Plyusnin A, et al. **Virus Genes** 1996;12(3):257–63

Sequence analysis of the complete S genomic segment of a newly identified hantavirus isolated from the white-footed mouse (Peromyscus leucopus): phylogenetic relationship with other sigmodontine rodent-borne hantaviruses. Song JW, et al. **Virus Genes** 1996;12(3):249–56

Nucleotide and deduced amino acid sequences of the M and S genome segments of a Swedish Puumala virus isolate. Hörling J, et al. **Virus Res** 1995 Dec;39(2–3):321–30

Genetic characterization and phylogeny of Andes virus and variants from Argentina and Chile. López N, et al. **Virus Res** 1997 Jul;50(1):77–84

Genetic variation in Tula hantaviruses: sequence analysis of the S and M segments of strains from Central Europe. Plyusnin A, et al. **Virus Res** 1995 Dec;39(2–3):237–50

IMMUNOLOGY

High prevalence of hantavirus antibodies in bank voles (Clethrionomys glareolus) captured in the vicinity of households afflicted with nephropathia epidemica. Ahlm C, et al. **Am J Trop Med Hyg** 1997 Jun;56(6):674–8

Patterns of association with host and habitat: antibody reactive with Sin Nombre virus in small mammals in the major biotic communities of the southwestern United States. Mills JN, et al. **Am J Trop Med Hyg** 1997 Mar; 56(3):273–84

An outbreak of hantavirus pulmonary syndrome in western Paraguay. Williams RJ, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):274–82

Increased plasma levels of soluble CD23 in haemorrhagic fever with renal syndrome; relation to virus-specific IgE. Alexeyev OA, et al. **Clin Exp Immunol** 1997 Aug; 109(2):351–5

Hantavirus antigen detection in kidney biopsies from patients with nephropathia epidemica. Groen J, et al. **Clin Nephrol** 1996 Dec;46(6):379–83

Rapid and specific detection of Sin Nombre virus antibodies in patients with hantavirus pulmonary syndrome by a strip immunoblot assay suitable for field diagnosis. Hjelle B, et al. **J Clin Microbiol** 1997 Mar;35(3):600–8

Immune responses to inactivated vaccine in people naturally infected with hantaviruses. Lu Q, et al. **J Med Virol** 1996 Aug;49(4):333–5

Puumala and Dobrava viruses cause hemorrhagic fever with renal syndrome in Bosnia-Herzegovina: evidence of highly cross-neutralizing antibody responses in early patient sera. Lundkvist A, et al. **J Med Virol** 1997 Sep;53(1):51–9

Phage-displayed peptide targeting on the Puumala hantavirus neutralization site. Heiskanen T, et al. **J Virol** 1997 May; 71(5):3879–85

A major antigenic domain for the human humoral response to Puumala virus nucleocapsid protein is located at the amino-terminus. Elgh F, et al. **J Virol Methods** 1996 May; 59(1–2):161–72

Biotin-labeled antigen: a novel approach for detection of Puumala virus-specific IgM. Ivanov A, et al. **J Virol Methods** 1996 Oct;62(1):87–92

Hantavirus in Montana deer mouse populations: preliminary results. Douglass RJ, et al. **J Wildl Dis** 1996 Jul; 32(3):527–30

Serological evidence for zoonotic hantaviruses in North Carolina rodents. Weigler BJ, et al. **J Wildl Dis** 1996 Apr; 32(2):354–7

Seroepidemiological survey of wild rats for Seoul virus in Indonesia. Ibrahim IN, et al. **Jpn J Med Sci Biol** 1996 Apr; 49(2):69–74

Acute renal failure due to hemorrhagic fever with renal syndrome. Bren AF, et al. **Ren Fail** 1996 Jul;18(4):635–8

Inhibition of puumala and tula hantaviruses in Vero cells by MxA protein. Kanerva M, et al. **Virology** 1996 Oct 1; 224(1):55–62

Baculovirus expression of a human G2-specific, neutralizing IgG monoclonal antibody to Puumala virus. Liang M, et al. **Virology** 1997 Sep 1;235(2):252–60

A major antigenic domain of hantaviruses is located on the aminoproximal site of the viral nucleocapsid protein. Gött P, et al. **Virus Genes** 1997;14(1):31–40

Single amino acid substitutions in Puumala virus envelope glycoproteins G1 and G2 eliminate important neutralization epitopes. Hörling J, et al. **Virus Res** 1997 Apr;48(1):89–100

Characterization of Tula virus antigenic determinants defined by monoclonal antibodies raised against baculovirus-expressed nucleocapsid protein. Lundkvist A, et al. **Virus Res** 1996 Nov;45(1):29–44

[Approaches to selecting a strain of hantavirus for developing an inactivated brain vaccine] Astakhova TI, et al. **Vopr Virusol** 1997 May–Jun;42(3):105–8 (Eng. Abstr.) **(Rus)**

[A system of immunoenzyme analysis using biotinylated monoclonal antibodies for typing hantavirus antigens] Ivanov AP, et al. **Vopr Virusol** 1996 Nov–Dec;41(6):263–5 (Eng. Abstr.) **(Rus)**

[Polyclonal immunoenzyme system for determining hantaviral antigens: assessment of specificity using monoclonal antibodies and the polymerase chain reaction] Ivanov AP, et al. **Vopr Virusol** 1996 May–Jun;41(3):110–2 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Hantavirus antibodies in New York [letter] Wasser WG, et al. **Ann Intern Med** 1997 Jul 15;127(2):166–7

Evidence against infection with hantaviruses among forest and park workers in the southwestern United States. Vitek CR, et al. **Clin Infect Dis** 1996 Aug;23(2):283–5

Population dynamics of the deer mouse (Peromyscus maniculatus) and Sin Nombre virus, California Channel Islands. Graham TB, et al. **Emerg Infect Dis** 1997 Jul–Sep; 3(3):367–70

Serological diagnosis of hantavirus infections by an enzyme-linked immunosorbent assay based on detection of immunoglobulin G and M responses to recombinant nucleocapsid proteins of five viral serotypes. Elgh F, et al. **J Clin Microbiol** 1997 May;35(5):1122–30

Isolation and characterization of Tula virus, a distinct serotype in the genus Hantavirus, family Bunyaviridae. Vapalahti O, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3063–7

[Further study of hantavirus circulation in the Russian Federation] Butenko AM, et al. **Vopr Virusol** 1997 Mar–Apr;42(2):74–6 (Eng. Abstr.) **(Rus)**

PATHOGENICITY

Rodents, human remains, and North American hantaviruses: risk factors and prevention measures for forensic science personnel—a review. Fink TM. **J Forensic Sci** 1996 Nov; 41(6):1052–6 (42 ref.)

Puumala and Dobrava viruses cause hemorrhagic fever with renal syndrome in Bosnia-Herzegovina: evidence of highly cross-neutralizing antibody responses in early patient sera. Lundkvist A, et al. **J Med Virol** 1997 Sep;53(1):51–9

[Hantavirus infection and the pulmonary syndrome: another new entity to look for in our environment? (letter; comment)] Salavert M, et al. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):395–6. Comment on: Enferm Infecc Microbiol Clin 1994 Dec;12(10):477–9. Comment on: Enferm Infecc Microbiol Clin 1995 Feb;13(2):125–6. **(Spa)**

PHYSIOLOGY

Polarized entry and release in epithelial cells of Black Creek Canal virus, a New World hantavirus. Ravkov EV, et al. **J Virol** 1997 Feb;71(2):1147–54

HANTAVIRUS INFECTIONS

Hantavirus infection. Mertz GJ, et al. **Adv Intern Med** 1997; 42:369–421 (158 ref.)

BLOOD

Type III mixed cryoglobulinaemia in the course of Hantavirus nephropathy. Ducloux D, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1721–3

COMPLICATIONS

Hantavirus pulmonary syndrome in Wisconsin. Kahl BS, et al. **Wis Med J** 1997 Feb;96(2):33–6

DIAGNOSIS

Hantavirus antigen detection in kidney biopsies from patients with nephropathia epidemica. Groen J, et al. **Clin Nephrol** 1996 Dec;46(6):379–83

Serological diagnosis of hantavirus infections by an enzyme-linked immunosorbent assay based on detection of immunoglobulin G and M responses to recombinant nucleocapsid proteins of five viral serotypes. Elgh F, et al. **J Clin Microbiol** 1997 May;35(5):1122–30

Biotin-labeled antigen: a novel approach for detection of Puumala virus-specific IgM. Ivanov A, et al. **J Virol Methods** 1996 Oct;62(1):87–92

[Clinical aspects and diagnosis of nephropathia epidemica] Mustonen J, et al. **Duodecim** 1995;111(15):1419–25 (33 ref.) **(Fin)**

EPIDEMIOLOGY

High prevalence of hantavirus antibodies in bank voles (Clethrionomys glareolus) captured in the vicinity of households afflicted with nephropathia epidemica. Ahlm C, et al. **Am J Trop Med Hyg** 1997 Jun;56(6):674–8

Hanta is coming. Schreiner GE. **Artif Organs** 1996 May; 20(5):451–4

Seroepidemiology of Hantaan virus infection in Taiwan. Kao CL, et al. **J Med Virol** 1996 Dec;50(4):309–13

Assessment of occupational risk for hantavirus infection in Arizona and New Mexico. Zeitz PS, et al. **J Occup Environ Med** 1997 May;39(5):463–7

High prevalence of hantavirus infection in a group of Chinese patients with acute hepatitis of unknown aetiology. Meng G, et al. **J Viral Hepat** 1997 Jul;4(4):231–4

Hantavirus in Argentina [letter] Barclay CM, et al. **Nature** 1997 Mar 27;386(6623):320

[Hantavirus: an ignored pandemic in Switzerland?] Troillet N. **Rev Med Suisse Romande** 1997 Jan;117(1):3–11 (61 ref.) (Eng. Abstr.) **(Fre)**

[Hantavirus infection in Spain: seroepidemiologic study in the province of Soria] Gegúndez MI, et al. **Med Clin (Barc)** 1996 Feb 3;106(4):131–3 (Eng. Abstr.) **(Spa)**

[Retrospective detection of hantavirus clinical infections in Argentina] Nieves Parisi MD, et al. **Medicina (B Aires)** 1996;56(1):1–13 (Eng. Abstr.) **(Spa)**

GENETICS

Analysis of fatal pulmonary hantaviral infection in New York by reverse transcriptase in situ polymerase chain reaction. Nuovo GJ, et al. **Am J Pathol** 1996 Mar;148(3):685–92

Genetic susceptibility to severe course of nephropathia epidemica caused by Puumala hantavirus. Mustonen J, et al. **Kidney Int** 1996 Jan;49(1):217–21

IMMUNOLOGY

Evidence against infection with hantaviruses among forest and park workers in the southwestern United States. Vitek CR, et al. **Clin Infect Dis** 1996 Aug;23(2):283–5

Serological evidence of human Hantavirus infection in Argentina, Bolivia and Uruguay. Weissenbacher MC, et al. **Medicina (B Aires)** 1996;56(1):17–22

METABOLISM

Increased production of nitric oxide in patients with hemorrhagic fever with renal syndrome--relation to arterial hypotension and tumor necrosis factor. Linderholm M, et al. **Infection** 1996 Sep–Oct;24(5):337–40

PREVENTION & CONTROL

Experimental evaluation of rodent exclusion methods to reduce hantavirus transmission to humans in rural housing. Glass GE, et al. **Am J Trop Med Hyg** 1997 Apr; 56(4):359–64

Rodents, human remains, and North American hantaviruses: risk factors and prevention measures for forensic science personnel—a review. Fink TM. **J Forensic Sci** 1996 Nov; 41(6):1052–6 (42 ref.)

RADIOGRAPHY

Pulmonary involvement in nephropathia epidemica: radiological findings and their clinical correlations. Kanerva M, et al. **Clin Nephrol** 1996 Dec;46(6):369–78

TRANSMISSION

Hantaviral biosafety issues in the autopsy room and laboratory: concerns and recommendations. Nolte KB, et al. **Hum Pathol** 1996 Dec;27(12):1253–4

Hantavirus infections. Hart CA. **J Med Microbiol** 1997 Jan; 46(1):13–7, 28–33 (228 ref.)

Human-to-human transmission of hantaviruses [letter] Markotić A. **Lancet** 1997 Aug 23;350(9077):596

[Hantavirus infection: a "new" exotic zoonosis among us] Clément J. **Bull Mem Acad R Med Belg** 1996; 151(5–6):325–33; discussion 333–5 (Eng. Abstr.) **(Fre)**

VETERINARY

Patterns of association with host and habitat: antibody reactive with Sin Nombre virus in small mammals in the major biotic communities of the southwestern United States. Mills JN, et al. **Am J Trop Med Hyg** 1997 Mar; 56(3):273–84

Seroepidemiologic studies of hantavirus infection among wild rodents in California. Jay M, et al. **Emerg Infect Dis** 1997

HANTAVIRUS INFECTIONS

Apr-Jun;3(2):183-90 (36 ref.)
Evidence of hantavirus in wild rodents in Northern Ireland. McCaughey C, et al. **Epidemiol Infect** 1996 Oct; 117(2):361-5
Community structure and prevalence of hantavirus infection in rodents: a geographic division of the enzootic area in far eastern Russia. Kosoy MY, et al. **J Vector Ecol** 1997 Jun;22(1):52-63
Hantavirus in Montana deer mouse populations: preliminary results. Douglass RJ, et al. **J Wildl Dis** 1996 Jul; 32(3):527-30
Serological evidence for zoonotic hantaviruses in North Carolina rodents. Weigler BJ, et al. **J Wildl Dis** 1996 Apr; 32(2):354-7
Dobrava hantavirus in Estonia: does the virus exist throughout Europe? [letter] Plyusnin A, et al. **Lancet** 1997 May 10;349(9062):1369-70
Nucleotide and deduced amino acid sequences of the M and S genome segments of a Swedish Puumala virus isolate. Hörling J, et al. **Virus Res** 1995 Dec;39(2-3):321-30

VIROLOGY

Puumala hantavirus genome in patients with nephropathia epidemica: correlation of PCR positivity with HLA haplotype and link to viral sequences in local rodents. Plyusnin A, et al. **J Clin Microbiol** 1997 May;35(5):1090-6
Distribution and genetic heterogeneity of Puumala virus in Sweden. Hörling J, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2555-62
Isolation and characterization of Tula virus, a distinct serotype in the genus Hantavirus, family Bunyaviridae. Vapalahti O, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3063-7
Polarized entry and release in epithelial cells of Black Creek Canal virus, a New World hantavirus. Ravkov EV, et al. **J Virol** 1997 Feb;71(2):1147-54
Dobrava hantavirus in Estonia: does the virus exist throughout Europe? [letter] Plyusnin A, et al. **Lancet** 1997 May 10;349(9062):1369-70

HANTAVIRUS PULMONARY SYNDROME

Common questions about hantavirus pulmonary syndrome. Chisolm S. **Am J Nurs** 1997 Apr;97(4):68-70
Hantaviruses: four years after four corners. Pflieger AK, et al. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):93-4, 100, 103-8
Emerging and newly identified viral infections. DeVincenzo JP. **Pediatr Ann** 1996 Sep;25(9):511-7
Hantavirus pulmonary syndrome. Moolenaar RL, et al. **Semin Respir Infect** 1997 Mar;12(1):31-9 (41 ref.)
[Hantavirus infection] Arikawa J. **Uirusu** 1996 Dec; 46(2):119-29 (76 ref.) **(Jpn)**
[The hantavirus pulmonary syndrome (its etiology, epidemiology, pathogenesis, clinical manifestations and the diagnosis of a new infectious disease)] Alekseev OA, et al. **Ter Arkh** 1997;69(3):78-80 (26 ref.) **(Rus)**

COMPLICATIONS

Puumala type hantavirus infection with early choleriform syndrome and severe multiorgan failure [letter] Thomas C, et al. **Intensive Care Med** 1997 Jun;23(6):708-9

DIAGNOSIS

Rapid and specific detection of Sin Nombre virus antibodies in patients with hantavirus pulmonary syndrome by a strip immunoblot assay suitable for field diagnosis. Hjelle B, et al. **J Clin Microbiol** 1997 Mar;35(3):600-8
[New pneumonia pathogens, especially Chlamydia pneumoniae and Hantaviruses] Lode H, et al. **Internist (Berl)** 1996 Sep;37(9):882-9 (45 ref.) **(Ger)**

EPIDEMIOLOGY

Cocirculation of multiple hantaviruses in Texas, with characterization of the small (S) genome of a previously undescribed virus of cotton rats (Sigmodon hispidus). Rawlings JA, et al. **Am J Trop Med Hyg** 1996 Dec; 55(6):672-9
An outbreak of hantavirus pulmonary syndrome in western Paraguay. Williams RJ, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):274-82
Hantaviruses: a global disease problem. Schmaljohn C, et al. **Emerg Infect Dis** 1997 Apr-Jun;3(2):95-104 (72 ref.)
An unusual hantavirus outbreak in southern Argentina: person-to-person transmission? Hantavirus Pulmonary Syndrome Study Group for Patagonia. Wells RM, et al. **Emerg Infect Dis** 1997 Apr-Jun;3(2):171-4
Hantavirus transmission in the United States. Wells RM, et al. **Emerg Infect Dis** 1997 Jul-Sep;3(3):361-5
Perspectives in fatal epidemics. Butler JC, et al. **Infect Dis Clin North Am** 1996 Dec;10(4):917-37 (75 ref.)
Hantavirus pulmonary syndrome: epidemiology, prevention, and case presentation of a new viral strain. Stelzel W. **Nurse Pract** 1996 Jun;21(6):89-90, 93, 96 passim
[Of mice and men: social impact of an emerging illness] Jalbert Y. **Can J Public Health** 1997 Mar-Apr;88(2):134-6 (Eng. Abstr.) **(Fre)**
[Hantavirus infection and the pulmonary syndrome: another new entity to look for in our environment? (letter; comment)] Salavert M, et al. **Enferm Infecc Microbiol Clin** 1996 Jun-Jul;14(6):395-6. Comment on: Enferm Infecc Microbiol Clin 1994 Dec;12(10):477-9. Comment on: Enferm Infecc Microbiol Clin 1995 Feb;13(2):125-6. **(Spa)**

HISTORY

The English sweating sickness, 1485 to 1551. Thwaites G, et al. **N Engl J Med** 1997 Feb 20;336(8):580-2

IMMUNOLOGY

Rapid and specific detection of Sin Nombre virus antibodies in patients with hantavirus pulmonary syndrome by a strip immunoblot assay suitable for field diagnosis. Hjelle B, et al. **J Clin Microbiol** 1997 Mar;35(3):600-8

MICROBIOLOGY

Hantavirus pulmonary syndrome, renal insufficiency, and myositis associated with infection by Bayou hantavirus. Hjelle B, et al. **Clin Infect Dis** 1996 Sep;23(3):495-500

RADIOGRAPHY

Pulmonary involvement in nephropathia epidemica: radiological findings and their clinical correlations. Kanerva M, et al. **Clin Nephrol** 1996 Dec;46(6):369-78
[Respiratory symptoms in hantavirus infection] Varpula M, et al. **Duodecim** 1995;111(13):1228-31 **(Fin)**

TRANSMISSION

Hantavirus transmission in the United States. Wells RM, et al. **Emerg Infect Dis** 1997 Jul-Sep;3(3):361-5

VIROLOGY

Hantavirus S RNA sequence from a fatal case of HPS in New York. Huang C, et al. **J Med Virol** 1996 Sep;50(1):5-8
New hantaviruses causing hantavirus pulmonary syndrome in central Argentina [letter] Levis S, et al. **Lancet** 1997 Apr 5;349(9057):998-9

HAPALE see **CALLITHRIX**

HAPALEMUR see **LEMURIDAE**

HAPLOIDY

A singular case of near-haploid stemline karyotype in a renal oncocytoma. Gregori-Romero MA, et al. **Cancer Genet Cytogenet** 1996 Nov;92(1):28-30
Segregation studies and linkage analysis of Atlantic salmon microsatellites using haploid genetics. Slettan A, et al. **Heredity** 1997 Jun;78 (Pt 6):620-7
Human egg activation, cryopreservation, and fertilization using a haploid pronucleus. Azambuja R, et al. **Hum Reprod** 1996 Sep;11(9):1990-1
Multilocus dynamics under haploid selection. Kirzhner V, et al. **J Math Biol** 1997 Mar;35(4):391-408
HLA-A and -B genotyping in living related one haploidentical kidney. Shintaku S, et al. **Jpn J Med Sci Biol** 1996 Aug;49(4):187-200
A yeast artificial chromosome (YAC) library containing 10 haploid chicken genome equivalents. Toye AA, et al. **Mamm Genome** 1997 Apr;8(4):274-6
RNA in spermatozoa: implications for the alternative haploid genome. Kramer JA, et al. **Mol Hum Reprod** 1997 Jun; 3(6):473-8 (58 ref.)
The self-incompatibility (S) haplotypes of Brassica contain highly divergent and rearranged sequences of ancient origin. Boyes DC, et al. **Plant Cell** 1997 Feb;9(2):237-47
Insertion mutagenesis and study of transposable elements using a new unstable virescent seedling allele for isolation of haploid petunia lines. Renckens S, et al. **Plant J** 1996 Sep;10(3):533-44
[Characteristics of spontaneous mutagenesis in haploid yeast] Korogodina VL, et al. **Genetika** 1996 May;32(5):629-36 (Eng. Abstr.) **(Rus)**

HAPLORHINI

Molecular features of the TSPY gene of gibbons and Old World monkeys. Kim HS, et al. **Chromosome Res** 1996 Nov; 4(7):500-6
Anthropoid origins. Kay RF, et al. **Science** 1997 Feb 7; 275(5301):797-804 (87 ref.)

ANATOMY & HISTOLOGY

Volumetric comparisons in the cerebellar complex of anthropoids, with special reference to locomotor types. Matano S, et al. **Am J Phys Anthropol** 1997 Jun; 103(2):173-83
Preliminary examination of non-occlusal dental microwear in anthropoids: implications for the study of fossil primates. Ungar PS, et al. **Am J Phys Anthropol** 1996 May; 100(1):101-13
Functional morphological similarities in the locomotor skeleton of miocene catarrhines and platyrrhine monkeys. Rose MD. **Folia Primatol (Basel)** 1996;66(1-4):7-14 (66 ref.)
Theories of visual cortex organization in primates: areas of the third level. Kaas JH. **Prog Brain Res** 1996;112:213-21 (53 ref.)

CLASSIFICATION

A comparison of TSPY genes from Y-chromosomal DNA of the great apes and humans: sequence, evolution, and phylogeny. Kim HS, et al. **Am J Phys Anthropol** 1996 Jul; 100(3):301-9
Intrasexual competition and body weight dimorphism in anthropoid primates. Plavcan JM, et al. **Am J Phys Anthropol** 1997 May;103(1):37-68 (162 ref.)

EMBRYOLOGY

Developmental changes in the fibre composition of elbow, knee, and ankle extensor muscles in cercopithecid monkeys. Jouffroy FK, et al. **Folia Primatol (Basel)** 1996; 66(1-4):55-67

GENETICS

A comparison of TSPY genes from Y-chromosomal DNA of the great apes and humans: sequence, evolution, and phylogeny. Kim HS, et al. **Am J Phys Anthropol** 1996 Jul; 100(3):301-9
Comparative mapping of Xp22 genes in hominoids--evolutionary linear instability of their Y homologues. Gläser B, et al. **Chromosome Res** 1997 May; 5(3):167-76
Survey of maximum CTG/CAG repeat lengths in humans and non-human primates: total genome scan in populations using the Repeat Expansion Detection method. Sirugo G, et al. **Hum Mol Genet** 1997 Mar;6(3):403-8
Human microsatellites applicable for analysis of genetic variation in apes and Old World monkeys. Coote T, et al. **J Hered** 1996 Sep-Oct;87(5):406-10
First Dolly the sheep, now multiple monkeys [news] Bradbury J. **Lancet** 1997 Mar 8;349(9053):705
Did the loss of endogenous ascorbate propel the evolution of Anthropoidea and Homo sapiens? Challem JJ. **Med Hypotheses** 1997 May;48(5):387-92 (52 ref.)
Expression of bonnet monkey (Macaca radiata) zona pellucida-3 (ZP3) in a prokaryotic system and its immunogenicity. Kaul R, et al. **Mol Reprod Dev** 1997 Jun; 47(2):140-7
Evolution of the primate lineage leading to modern humans: phylogenetic and demographic inferences from DNA sequences. Takahata N, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4811-5

METABOLISM

Distribution of glycine-immunoreactive profiles in the monkey spinal cord: a light microscopic and ultrastructural study. Carlton SM, et al. **J Comp Neurol** 1996 Aug 5; 371(4):589-602
Did the loss of endogenous ascorbate propel the evolution of Anthropoidea and Homo sapiens? Challem JJ. **Med Hypotheses** 1997 May;48(5):387-92 (52 ref.)

PHYSIOLOGY

Activity and attention in zinc-deprived adolescent monkeys. Golub MS, et al. **Am J Clin Nutr** 1996 Dec;64(6):908-15
Volumetric comparisons in the cerebellar complex of anthropoids, with special reference to locomotor types. Matano S, et al. **Am J Phys Anthropol** 1997 Jun; 103(2):173-83
Categorization in monkeys and chimpanzees. Spinozzi G. **Behav Brain Res** 1996 Jan;74(1-2):17-24 (47 ref.)
Mechanisms of visual object recognition: monkey and human studies. Tanaka K. **Curr Opin Neurobiol** 1997 Aug; 7(4):523-9 (47 ref.)
Possible involvement of sexual selection in neocortical evolution of monkeys and apes. Sawaguchi T. **Folia Primatol (Basel)** 1997;68(2):95-9
Arm movements in monkeys: behavior and neurophysiology. Georgopoulos AP. **J Comp Physiol [A]** 1996 Nov; 179(5):603-12 (46 ref.)
The monkeys' defence alliance [news] Dunbar R. **Nature** 1997 Apr 10;386(6625):555, 557
Neuronal activity in MST and STPp, but not MT changes systematically with stimulus-independent decisions. Thiele A, et al. **Neuroreport** 1996 Apr 10;7(5):971-6
Behavioral and physiological effects of xanthines in nonhuman primates. Howell LL, et al. **Psychopharmacology (Berl)** 1997 Jan;129(1):1-14 (143 ref.)
Visual cortex neurons in monkey and cat: effect of contrast on the spatial and temporal phase transfer functions. Albrecht DG. **Vis Neurosci** 1995 Nov-Dec;12(6):1191-210

PSYCHOLOGY

Conflict resolution and distress alleviation in monkeys and apes. de Wall FB, et al. **Ann N Y Acad Sci** 1997 Jan 15; 807:317-28 (57 ref.)

VIROLOGY

Complete nucleotide sequence of simian endogenous type D retrovirus with intact genome organization: evidence for ancestry to simian retrovirus and baboon endogenous virus. van der Kuyl AC, et al. **J Virol** 1997 May; 71(5):3666-76
Live-attenuated HIV vaccines: how safe is safe enough? [news; comment] Murphey-Corb M. **Nat Med** 1997 Jan; 3(1):17-8. Comment on: Nat Med 1997 Jan;3(1):32-6.
Ebola bar creates monkey shortage [news] Nathan R.

Nature 1996 Aug 29;382(6594):744

HAPLOTYPES

Intrathecal humoral immune response in HAM/TSP in relation to HLA haplotype analysis. Kitze B, et al. **Acta Neurol Scand** 1996 Oct;94(4):287–93

DRD2 haplotypes containing the TaqI A1 allele: implications for alcoholism research. Kidd KK, et al. **Alcohol Clin Exp Res** 1996 Jun;20(4):697–705

Clinical characteristics of hereditary pancreatitis in a large family, based on high-risk haplotype. The Midwest Multicenter Pancreatic Study Group (MMPSG) [see comments] Sossenheimer MJ, et al. **Am J Gastroenterol** 1997 Jul;92(7):1113–6. Comment in: Am J Gastroenterol 1997 Jul;92(7):1079–80.

Beta-globin gene haplotype in Hb SC disease. Steinberg MH, et al. **Am J Hematol** 1996 Jul;52(3):189–91

Heteroplasmic point mutations in the human mtDNA control region. Bendall KE, et al. **Am J Hum Genet** 1996 Dec; 59(6):1276–87

Further comments on the characterization of founder Amerindian mitochondrial haplotypes [letter] Bianchi NO, et al. **Am J Hum Genet** 1997 Jul;61(1):244–7

Clustering of Caucasian Leber hereditary optic neuropathy patients containing the 11778 or 14484 mutations on an mtDNA lineage. Brown MD, et al. **Am J Hum Genet** 1997 Feb;60(2):381–7

Predisposition to the fragile X syndrome in Jews of Tunisian descent is due to the absence of AGG interruptions on a rare Mediterranean haplotype. Falik-Zaccai TC, et al. **Am J Hum Genet** 1997 Jan;60(1):103–12

Haplotypes of angiotensinogen in essential hypertension. Jeunemaitre X, et al. **Am J Hum Genet** 1997 Jun; 60(6):1448–60

HLA class II DR-DQ amino acids and insulin-dependent diabetes mellitus: application of the haplotype method. Valdes AM, et al. **Am J Hum Genet** 1997 Mar;60(3):717–28

Growth hormone insufficiency associated with haploinsufficiency at 18q23. Cody JD, et al. **Am J Med Genet** 1997 Sep 5;71(4):420–5

Evidence for high-risk haplotypes and (CGG)n expansion in fragile X syndrome in the Hellenic population of Greece and Cyprus. Syrrou M, et al. **Am J Med Genet** 1996 Jul 12;64(1):234–8

Sequence diversity of the control region of mitochondrial DNA in Tuscany and its implications for the peopling of Europe. Francalacci P, et al. **Am J Phys Anthropol** 1996 Aug;100(4):443–60

Distribution of four founding mtDNA haplogroups among Native North Americans. Lorenz JG, et al. **Am J Phys Anthropol** 1996 Nov;101(3):307–23 (43 ref.)

Heterogeneity of mitochondrial DNA haplotypes in Pre-Columbian Natives of the Amazon region. Ribetio-dos-Santos AK, et al. **Am J Phys Anthropol** 1996 Sep;101(1):29–37

Haplotypes of restriction polymorphisms as informative genetic markers at the ovine glutathione reductase (GSR) locus. Phua SH, et al. **Anim Genet** 1996 Apr;27(2):122–3

Geographic clustering of human Y-chromosome haplotypes. Ruiz Linares A, et al. **Ann Hum Genet** 1996 Sep;60 (Pt 5):401–8

Multiple founder haplotypes of mitochondrial DNA in Amerindians revealed by RFLP and sequencing. Santos SE, et al. **Ann Hum Genet** 1996 Jul;60 (Pt 4):305–19

HLA risk haplotype Cw6,DR7,DQA1*0201 and HLA-Cw6 with reference to the clinical picture of psoriasis vulgaris. Ikäheimo I, et al. **Arch Dermatol Res** 1996 Jun;288(7):363–5

Increased frequency of HLA-DR3 and complotype SC01 in Mexican Mestizo children with amebic abscess of the liver and summary of our overall HLA-SC01 experience in invasive amebiasis. Pérez-Rodríguez M, et al. **Arch Med Res** 1997;28 Spec No:245–7

The dopamine D4 receptor gene (DRD4) is not associated with alcoholism in three Taiwanese populations: six polymorphisms tested separately and as haplotypes. Chang FM, et al. **Biol Psychiatry** 1997 Feb 15;41(4):394–405

Denaturing gradient-gel electrophoresis screening of familial defective apolipoprotein B-100 in a mixed Asian cohort: two cases of arginine3500-->tryptophan mutation associated with a unique haplotype. Choong ML, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):916–23

Four frequently observed polymorphisms in the 3'-UTR of human peripheral myelin protein 22 (PMP22): identification of different haplotypes. Young P, et al. **Clin Genet** 1996 Jun;49(6):321–2

Carrier detection by microsatellite haplotyping in 10 properdin type 1-deficient families. Fijen CA, et al. **Eur J Clin Invest** 1996 Oct;26(10):902–6

Genomic MHC haplotyping of mutant cell lines using a novel marker. Degli-Esposti MA, et al. **Eur J Immunogenet** 1993 Oct;20(5):373–80

Recombination fractions in the HLA system based on the data set 'provinces Françaises': indications of haplotype-specific recombination rates. Thomsen M, et al. **Eur J Immunogenet** 1994 Feb;21(1):33–43

Dopamine D2 receptor gene (DRD2) haplotypes in Caucasians. Finckh U, et al. **Gene** 1996 Nov 14;179(2):251–5

DNA haplotypes in Africans and West Indians with sickle cell anaemia or SC disease. Konstantopoulos K, et al. **Gene Geogr** 1996 Apr;10(1):19–24

Low frequency of mouse t haplotypes in wild populations is not explained by modifiers of meiotic drive. Ardlie KG, et al. **Genetics** 1996 Dec;144(4):1787–97

Association between SSCP haplotypes at the bovine growth hormone gene and milk protein percentage [published erratum appears in Genetics 1997 May;146(1):442] Lagziel A, et al. **Genetics** 1996 Mar;142(3):945–51

Dispersion of human Y chromosome haplotypes based on five microsatellites in global populations. Deka R, et al. **Genome Res** 1996 Dec;6(12):1177–84

Worldwide distribution of human Y-chromosome haplotypes. Santos FR, et al. **Genome Res** 1996 Jul; 6(7):601–11

Wolfram (DIDMOAD) syndrome and Leber hereditary optic neuropathy (LHON) are associated with distinct mitochondrial DNA haplotypes. Hofmann S, et al. **Genomics** 1997 Jan 1;39(1):8–18

Mitochondrial DNA Haplogroups in Four Tribes from Tierra del Fuego-Patagonia: Inferences about the Peopling of the Americas. Lalueza Fox C. **Hum Biol** 1996 Dec;68(6):853–71

The G4 gene is duplicated in 44% of human immunoglobulin heavy chain constant region haplotypes. Brusco A, et al. **Hum Genet** 1997 Jul;100(1):84–9

Mutation and haplotype analyses of the Werner's syndrome gene based on its genomic structure: genetic epidemiology in the Japanese population. Matsumoto T, et al. **Hum Genet** 1997 Jul;100(1):123–30

Expanded CAG repeats in spinocerebellar ataxia (SCA1) segregate with distinct haplotypes in South african families. Ramesar RS, et al. **Hum Genet** 1997 Jul;100(1):131–7

Phenylketonuria mutations and linked haplotypes in the Lithuanian population: origin of the most common R408W mutation. Giannattasio S, et al. **Hum Hered** 1997 May-Jun; 47(3):155–60

Microsatellite haplotypes of Polish cystic fibrosis alleles: delta F508 chromosomes demonstrate a North-South haplotype frequency gradient. Witt M, et al. **Hum Hered** 1996 Nov-Dec;46(6):310–4

The HLA-DRB9 gene and the origin of HLA-DR haplotypes. Gongora R, et al. **Hum Immunol** 1996 Nov; 51(1):23–31

HLA-DRB intron 1 sequences: implications for the evolution of HLA-DRB genes and haplotypes. Satta Y, et al. **Hum Immunol** 1996 Nov;51(1):1–12

Haplotype and interspersion analysis of the FMR1 CGG repeat identifies two different mutational pathways for the origin of the fragile X syndrome. Eichler EE, et al. **Hum Mol Genet** 1996 Mar;5(3):319–30

Identification of three mutations and associated haplotypes in the protoporphyrinogen oxidase gene in South African families with variegate porphyria. Warnich L, et al. **Hum Mol Genet** 1996 Jul;5(7):981–4

Phenylketonuria in Spanish Gypsies: prevalence of the IVS10nt546 mutation on haplotype 34. Desviat LR, et al. **Hum Mutat** 1997;9(1):66–8

Probable identity by descent and discovery of familial relationships by means of a rare beta-thalassemia haplotype. Martino T, et al. **Hum Mutat** 1997;9(1):86–7

Haplotype analysis of 94 cystic fibrosis mutations with seven polymorphic CFTR DNA markers [published erratum appears in Hum Mutat 1996;8(3):295-6] Morral N, et al. **Hum Mutat** 1996;8(2):149–59

HLA class II haplotype and sequence analysis support a role for DQ in narcolepsy. Ellis MC, et al. **Immunogenetics** 1997; 46(5):410–7

New chicken Rfp-Y haplotypes on the basis of MHC class II RFLP and MLC analyses. Juul-Madsen HR, et al. **Immunogenetics** 1997;45(6):345–52

Haplotype analysis of congenital nephrotic syndrome of the Finnish type in non-Finnish families. Männikkö M, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2700–3

Direct haplotyping at the vitamin D receptor locus improves genetic resolution [letter; comment] Peltekova VD, et al. **J Bone Miner Res** 1997 Mar;12(3):494–5. Comment on: J Bone Miner Res 1996 Jul;11(7):1003–9.

Haplotyping of mitochondrial DNA in the D-loop region by PCR: forensic application. Pai CY, et al. **J Formos Med Assoc** 1997 Feb;96(2):73–82

Molecular bases of C7 deficiency: three different defects. Fernie BA, et al. **J Immunol** 1997 Jul 15;159(2):1019–26

Mucopolysaccharidosis IVA: a comparative study of polymorphic DNA haplotypes in the Caucasian and Japanese populations. Rezvi GM, et al. **J Inherit Metab Dis** 1996;19(3):301–8

Unexpected HLA haplotype sharing in dizygotic twin pairs discordant for rheumatoid arthritis. Jawaheer D, et al. **J Med Genet** 1996 Dec;33(12):1015–8

The major histocompatability complex (MHC) contains conserved polymorphic genomic sequences that are shuffled by recombination to form ethnic-specific haplotypes. Gaudieri S, et al. **J Mol Evol** 1997 Jul; 45(1):17–23 (Eng. Abstr.)

Sharing of MHC haplotypes among patients with systemic lupus erythematosus from unrelated Caucasian multicase families: disease association with the extended haplotype [HLA-B8, SC01, DR17] Truedsson L, et al. **J Rheumatol** 1995 Oct;22(10):1852–61

Chromosome 19 single-locus and multilocus haplotype associations with multiple sclerosis. Evidence of a new susceptibility locus in Caucasian and Chinese patients [see comments] Barcellos LF, et al. **JAMA** 1997 Oct 15; 278(15):1256–61. Comment in: JAMA 1997 Oct 15;278(15):1282–3.

Detection and isolation of nuclear haplotypes by PCR-SSCP. Ortí G, et al. **Mol Ecol** 1997 Jun;6(6):575–80

Sperm from mice carrying two t haplotypes do not possess a tyrosine phosphorylated form of hexokinase. Olds-Clarke P, et al. **Mol Reprod Dev** 1996 Jan;43(1):94–104

Molecular haplotyping of genetic markers 10 kb apart by allele-specific long-range PCR. Michalatos-Beloin S, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4841–3

Haplotypes of human leukocyte antigens among patients with nasopharyngeal cancer in Greece. Daniilidis M, et al. **Oncology** 1997 May-Jun;54(3):185–92

A survey of the newborn populations in Belgium, Germany, Poland, Czech Republic, Hungary, Bulgaria, Spain, Turkey, and Japan for the G985 variant allele with haplotype analysis at the medium chain Acyl-CoA dehydrogenase gene locus: clinical and evolutionary consideration. Tanaka K, et al. **Pediatr Res** 1997 Feb; 41(2):201–9

Characterization of the 16+9 kb and 30+9 kb CYP2D6 XbaI haplotypes. Løvlie R, et al. **Pharmacogenetics** 1997 Apr; 7(2):149–52

Evidence that poor metabolizers of (S)-mephenytoin could be identified by haplotypes of CYP2C19 in Japanese. Takakubo F, et al. **Pharmacogenetics** 1996 Jun;6(3):265–7

Frequencies and genetic diversity of major histocompatibility complex class II haplotypes in commercial turkey lines. Zhu J, et al. **Poult Sci** 1996 Aug;75(8):954–8

Ideas on human origins evolve at anthropology gathering [news] Gibbons A. **Science** 1997 Apr 25;276(5312):535–4

Polymerase chain reaction haplotyping using 3' mismatches in the forward and reverse primers: application to the biallelic polymorphisms of tumor necrosis factor and lymphotoxin alpha. Fanning GC, et al. **Tissue Antigens** 1997 Jul;50(1):23–31

Haplotypic diversity of DQA1*03 and *05 subtypes differing at amino acid residue 160 encoded in the third exon in 2215 Japanese individuals. Kaneshige T, et al. **Tissue Antigens** 1997 Jan;49(1):46–52

New HLA-DR haplotypes containing the DRB6 pseudogene. Salazar M, et al. **Tissue Antigens** 1996 Nov; 48(5):575–9

[Haplotype analysis using two tetrameric loci within the vWF gene: its frequency in Japanese and application in forensic medicine] Dewa K. **Nippon Hoigaku Zasshi** 1996 Oct; 50(5):349–56 (Eng. Abstr.) **(Jpn)**

[Dynamics of the haplotype frequencies in populations: study using the Monte Carlo method] Grigorenko EL, et al. **Genetika** 1996 Dec;32(12):1705–13 (Eng. Abstr.) **(Rus)**

GENETICS

Human GABAA receptor alpha 1 and alpha 3 subunits genes and alcoholism. Parsian A, et al. **Alcohol Clin Exp Res** 1997 May;21(3):430–3

Age and origin of two common MLH1 mutations predisposing to hereditary colon cancer. Moisio AL, et al. **Am J Hum Genet** 1996 Dec;59(6):1243–51

Detecting disease-predisposing variants: the haplotype method. Valdes AM, et al. **Am J Hum Genet** 1997 Mar; 60(3):703–16

Rapid molecular haplotyping of the first exon of the human dopamine D4 receptor gene by heteroduplex analysis. Chang FM, et al. **Am J Med Genet** 1997 Feb 21;74(1):91–4

Population haplotype analysis and evolutionary relations of the COL2A1 gene. Meulenbelt I, et al. **Ann Hum Genet** 1996 May;60 (Pt 3):189–99

Haplotype analysis of two APOA1/MspI polymorphisms in relation to plasma levels of apo A-I and HDL-cholesterol. Kamboh MI, et al. **Atherosclerosis** 1996 Dec 20; 127(2):255–62

PCR-RFLP genotyping of murine MHC haplotypes. Peng SL, et al. **Biotechniques** 1996 Sep;21(3):362, 366–8

Haplotype analysis defines a minimal interval for the multiple endocrine neoplasia type 1 (MEN1) gene. Debelenko LV, et al. **Cancer Res** 1997 Mar 15;57(6):1039–42

APC intragenic haplotypes in familial adenomatous polyposis. Almeida R, et al. **Clin Genet** 1996 Dec; 50(6):483–5

DR7-Dw17 and DR7-DwDB1 haplotypes contain different alleles of the HLA-DRB7 pseudogene. Day S, et al. **Eur J Immunogenet** 1994 Oct;21(5):383–6

Molecular analysis of CYP21 gene mutations carried on HLA-B14 positive haplotypes. Dondi E, et al. **Eur J Immunogenet** 1994 Oct;21(5):341–50

HLA five-locus haplotypes in Finns. Ikäheimo I, et al. **Eur J Immunogenet** 1996 Aug;23(4):321–8

Comparative analysis of the disease-associated complement C4 gene from the HLA-A1, B8, DR3 haplotype. Ulgiati D, et al. **Exp Clin Immunogenet** 1996;13(1):43–54

Impact of migration and fitness on the stability of lethal t-haplotype polymorphism in Mus musculus: a computer study. Durand D, et al. **Genetics** 1997 Apr;145(4):1093–108 (38 ref.)

Historical and anthropological correlates of beta S haplotypes and alpha- and beta-thalassemia alleles in the Arabian Peninsula. Adekile AD. **Hemoglobin** 1997 May; 21(3):281–96 (84 ref.)

Factor IX gene haplotypes in Amerindians. Franco RF, et al. **Hum Biol** 1997 Feb;69(1):1–9

Immunoglobulin haplotype frequencies in Anabaptist population samples: Kansas and Nebraska Mennonites and Indiana Amish. Martin K, et al. **Hum Biol** 1996 Feb; 68(1):45–62

HAPLOTYPES

Regional distribution of cystic fibrosis-linked DNA haplotypes in Brazil: multicenter study. Raskin S, et al. **Hum Biol** 1997 Feb;69(1):75–88

Network analysis of human Y microsatellite haplotypes. Cooper G, et al. **Hum Mol Genet** 1996 Nov;5(11):1759–66

Tumour necrosis factor haplotypes and asthma. Moffatt MF, et al. **Hum Mol Genet** 1997 Apr;6(4):551–4

Complex genetic contribution of the Apo AI-CIII-AIV gene cluster to familial combined hyperlipidemia. Identification of different susceptibility haplotypes. Dallinga-Thie GM, et al. **J Clin Invest** 1997 Mar 1;99(5):953–61

Genetic susceptibility to severe course of nephropathia epidemica caused by Puumala hantavirus. Mustonen J, et al. **Kidney Int** 1996 Jan;49(1):217–21

Familial thrombophilia: clinical and molecular analysis of Swedish families with inherited resistance to activated protein C or protein S deficiency. Zöller B. **Scand J Clin Lab Invest Suppl** 1996;226:19–46

No association of the Ser/Cys311 DRD2 molecular variant with schizophrenia using a classical case control study and the haplotype relative risk. Verga M, et al. **Schizophr Res** 1997 May 24;25(2):117–21

The presence of HLA-A*2403 and HLA-B*1512 on the same haplotype in a Thai family. Chandanayingyong D, et al. **Tissue Antigens** 1996 May;47(5):426–7

Cloning of HLA-A26 cDNA from Japanese donors possessing ATL-associated HLA haplotypes. Miyashita H, et al. **Tissue Antigens** 1995 Nov;46(5):398–400

Loss of an HLA haplotype in pancreas cancer tissue and its corresponding tumor derived cell line. Torres MJ, et al. **Tissue Antigens** 1996 May;47(5):372–81

Decennial tails. Artzt K, et al. **Trends Genet** 1997 Jan; 13(1):10–1

B-haplotype control of CD4/CD8 subsets and TCR V beta usage in chicken T lymphocytes. Ewald SJ, et al. **Vet Immunol Immunopathol** 1996 Oct;53(3–4):285–301

[Distribution of Rhesus haplotype frequencies in the Cologne (North Rhine-Westphalia) administrative district] Scheil HG, et al. **Anthropol Anz** 1996 Sep;54(3):215–28 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

The Dai minority population of southwest China: heterogeneity of DR2-associated HLA-DRB1,DRB5,DQA1, and DQB1 haplotypes. Fan L, et al. **Hum Immunol** 1996 Feb;45(2):143–7

Tumor necrosis factor (TNF) microsatellite haplotypes in relation to extended haplotypes, susceptibility to diseases associated with the major histocompatibility complex and TNF secretion. Garcia-Merino A, et al. **Hum Immunol** 1996 Sep 15;50(1):11–21

T-cell receptor BV6S1 null alleles and HLA-DR1 haplotypes in polyarticular outcome juvenile rheumatoid arthritis. Grom AA, et al. **Hum Immunol** 1996 Feb; 45(2):152–6

Distribution of HLA class II alleles and haplotypes in insulin-dependent Moroccan diabetics. Izaabel H, et al. **Hum Immunol** 1996 Sep 1;49(2):137–43

Celiac patients predominantly inherit HLA-DPB1*0101 positive haplotype from HLA-DQ2 homozygous parent. Polvi A, et al. **Hum Immunol** 1997 Apr 1;53(2):156–8

HLA gene haplotype frequencies in bone marrow donors worldwide registries. Schipper RF, et al. **Hum Immunol** 1997 Jan;52(1):54–71

On naming H2 haplotypes: functional significance of MHC class Ib alleles. Fischer Lindahl K. **Immunogenetics** 1997; 46(1):53–62 (139 ref.)

Effects of transgenic mixed-haplotype MHC class II molecules A alpha d A beta z on autoimmune disease in New Zealand mice. Nishimura H, et al. **Int Immunol** 1996 Jun;8(6):967–76

Differences in frequency distribution of HLA-A2 subtypes between North American and Italian white melanoma patients: relevance for epitope specific vaccination protocols. Player MA, et al. **J Immunother Emphasis Tumor Immunol** 1996 Sep; 19(5):357–63

T cell response to myelin basic protein in the context of the multiple sclerosis-associated HLA-DR15 haplotype: peptide binding, immunodominance and effector functions of T cells. Vergelli M, et al. **J Neuroimmunol** 1997 Aug; 77(2):195–203

Generation of DR51-associated DQA1, DQB1 haplotypes in Asian Indians. Mehra NK, et al. **Tissue Antigens** 1996 Jan;47(1):85–9

Complement C4A, C4B and BF haplotypes in Koreans. Park KS, et al. **Tissue Antigens** 1996 Mar;47(3):200–5

Molecular and serological characterization of HLA-B71 in association with different class I haplotypes or in different ethnic groups. Rodriguez SG, et al. **Tissue Antigens** 1996 Jan;47(1):58–62

Results of Expedicion Humana. I. Analysis of HLA class II (DRB1-DQA1-DPB1) alleles and DR-DQ haplotypes in nine Amerindian populations from Colombia. Trachtenberg EA, et al. **Tissue Antigens** 1996 Sep; 48(3):174–81

HAPPINESS

Adolescent depressed mood and parental unhappiness. Lasko DS, et al. **Adolescence** 1996 Spring;31(121):49–57

Neuroanatomical correlates of happiness, sadness, and disgust. Lane RD, et al. **Am J Psychiatry** 1997 Jul; 154(7):926–33

The happy home myth: the female experience. von Broembsen SA. **Am J Psychoanal** 1996 Sep;56(3):289–318

Gender differences in regional cerebral blood flow during transient self-induced sadness or happiness. George MS, et al. **Biol Psychiatry** 1996 Nov 1;40(9):859–71

Determinants of happiness and life satisfaction in elderly Zimbabweans. Allain TJ, et al. **Cent Afr J Med** 1996 Nov; 42(11):308–11

The significance of romantic love for marriage. Willi J. **Fam Process** 1997 Jun;36(2):171–82

Influence of specific emotional states on autonomic reactivity and pulmonary function in asthmatic children. Miller BD, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May; 36(5):669–77

Defining, validating, and increasing indices of happiness among people with profound multiple disabilities. Green CW, et al. **J Appl Behav Anal** 1996 Spring;29(1):67–78

Convergent validity of the Depression-Happiness Scale with measures of depression. Joseph S, et al. **J Clin Psychol** 1996 Sep;52(5):551–4

The relation between concepts of quality-of-life, health and happiness. Musschenga AW. **J Med Philos** 1997 Feb; 22(1):11–28

Mood and the use of scripts: does a happy mood really lead to mindlessness? Bless H, et al. **J Pers Soc Psychol** 1996 Oct;71(4):665–79

Discriminant validity of well-being measures. Lucas RE, et al. **J Pers Soc Psychol** 1996 Sep;71(3):616–28

Feelings of couples who have had a child by donor insemination: the degree of congruence. Gillett WR, et al. **J Psychosom Obstet Gynaecol** 1996 Sep;17(3):135–42

The heritability of happiness [news] Hamer DH. **Nat Genet** 1996 Oct;14(2):125–6

A differential neural response in the human amygdala to fearful and happy facial expressions. Morris JS, et al. **Nature** 1996 Oct 31;383(6603):812–5

Lateralized effects of self-induced sadness and happiness on corticospinal excitability. Tormos JM, et al. **Neurology** 1997 Aug;49(2):487–91

Personality and happiness. Furnham A, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):761–2

Convergent validity of the depression-happiness scale with the Crown-Crisp experimental index. Lewis CA, et al. **Psychol Rep** 1996 Apr;78(2):497–8

Perceived happiness of college students measured by Maslow's hierarchy of needs. Pettijohn TF 2nd, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):759–62

A replication to increase happiness indices among some people with profound multiple disabilities. Ivancic MT, et al. **Res Dev Disabil** 1997 Jan-Feb;18(1):79–89

The pursuit of happiness. Myers DG, et al. **Sci Am** 1996 May;274(5):70–2

[Serum lipid concentration and subjective evaluation of well-being in elderly persons living at home] Okamoto K. **Nippon Ronen Igakkai Zasshi** 1996 Sep;33(9):676–80 (Eng. Abstr.) **(Jpn)**

[Subjective happiness and psychological condition in SLE] Maeshima E, et al. **Ryumachi** 1996 Dec;36(6):830–6 (Eng. Abstr.) **(Jpn)**

HAPPY PUPPET SYNDROME see **ANGELMAN SYNDROME**

HAPTENS

On T-cell recognition of nickel as a hapten. Emtestam L, et al. **Acta Derm Venereol** 1996 Sep;76(5):344–7

A convenient method for the preparation of hapten phosphoramidites. Fino JR, et al. **Bioconjug Chem** 1996 Mar-Apr;7(2):274–80

Blockade of costimulatory molecules B7-1 (CD80) and B7-2 (CD86) down-regulates induction of contact sensitivity by haptenated epidermal cells. Katayama I, et al. **Br J Dermatol** 1997 Jun;136(6):846–52

Enhancement of the sensitivity of a chemiluminescent immunoassay for estradiol based on hapten heterology. Sato H, et al. **Clin Biochem** 1996 Dec;29(6):509–13

Bispecific antibody and iodine-131-labeled bivalent hapten dosimetry in patients with medullary thyroid or small-cell lung cancer. Bardiès M, et al. **J Nucl Med** 1996 Nov; 37(11):1853–9

ADMINISTRATION & DOSAGE

High and low doses of haptens dictate whether dermal or epidermal antigen-presenting cells promote contact hypersensitivity. Bacci S, et al. **Eur J Immunol** 1997 Feb; 27(2):442–8

Suppression of delayed-type contact sensitivity in the murine oral mucosa by prior intragastric administration of hapten. Ahlfors E, et al. **Scand J Immunol** 1997 Sep;46(3):268–73

ADVERSE EFFECTS

Suppressive effect of ultraviolet B radiation on contact sensitization in mice. II. Systemic immunosuppression is modulated by ultraviolet irradiation and hapten application. Miyauchi-Hashimoto H, et al. **Photodermatol Photoimmunol Photomed** 1996 Aug; 12(4):137–44

UVB irradiation decreases the magnitude of the Th1 response to hapten but does not increase the Th2 response. Saijo S, et al. **Photodermatol Photoimmunol Photomed** 1996 Aug; 12(4):145–53

ANALYSIS

Molecular aspects of design of immunoassays for drugs. Newman DJ, et al. **Ther Drug Monit** 1996 Aug;18(4):493–7

CHEMISTRY

Characterization of protein-hapten conjugates. 2. Electrospray mass spectrometry of bovine serum albumin-hapten conjugates. Adamczyk M, et al. **Bioconjug Chem** 1996 Jul-Aug;7(4):475–81

Bivalent hapten-bearing peptides designed for iodine-131 pretargeted radioimmunotherapy. Janevik-Ivanovska E, et al. **Bioconjug Chem** 1997 Jul-Aug;8(4):526–33

Synthesis of five enantiomerically pure haptens designed for in vitro evolution of antibodies with peptidase activity. Wagner J, et al. **Bioorg Med Chem** 1996 Jun;4(6):901–16

Solid-phase synthesis and conformational studies of helper T cell immunogenic peptides that carry carbohydrate haptens linked to serine. Elofsson M, et al. **Int J Pept Protein Res** 1996 May;47(5):340–7

Comparative molecular field analysis of haptens docked to the multispecific antibody IgE(Lb4). Gamper AM, et al. **J Med Chem** 1996 Sep 27;39(20):3882–8

Production and characterization of polyclonal anti-S 20499 antibodies: influence of the hapten structure on stereospecificity. Got PA, et al. **J Pharm Sci** 1997 Jun; 86(6):654–9

DIAGNOSTIC USE

Targeting medullary thyroid carcinomas with bispecific antibodies and bivalent haptens. Results and clinical perspectives. Rouvier E, et al. **Horm Res** 1997; 47(4–6):163–7

Two-step immunoscintigraphy for non-small-cell lung cancer staging using a bispecific anti-CEA/anti-indium-DTPA antibody and an indium-111-labeled DTPA dimer. Vuillez JP, et al. **J Nucl Med** 1997 Apr;38(4):507–11

Synthesis of (15E)-17 beta-hydroxyandrost-4-en-3,15-dione 15-(O-carboxymethyl)oxime, a potential hapten for testosterone immunoassays. Fajkoš J, et al. **Steroids** 1996 Nov;61(11):634–8

IMMUNOLOGY

Syntheses of haptens containing dioxaphosphorinan methoxyacetic acid linker arms for the production of antibodies to organophosphate pesticides. ten Hoeve W, et al. **Bioconjug Chem** 1997 May-Jun;8(3):257–66

Active specific immunotherapy with hapten-modified autologous melanoma cell vaccine. Sato T. **Cancer Immunol Immunother** 1996 Nov;43(3):174–9

In vitro primary sensitization of hapten-specific T cells by cultured human epidermal Langerhans cells—a screening predictive assay for contact sensitizers. Krasteva M, et al. **Clin Exp Allergy** 1996 May;26(5):563–70

Concomitant contact dermatitis due to textile dyes and to colour film developers can be explained by the formation of the same hapten. Hansson C, et al. **Contact Dermatitis** 1997 Jul;37(1):27–31

Suboptimal non-inflammatory concentrations of haptens may elicit a contact sensitivity reaction when used as a mix. Krasteva M, et al. **Contact Dermatitis** 1996 Nov; 35(5):279–82

Immune response to different doses of a hapten of fluorescein isothiocyanate analyzed by two-dimensional affinity electrophoresis. Wang P, et al. **Electrophoresis** 1996 Jul; 17(7):1273–9

Efficient and selective p-nitrophenyl-ester-hydrolyzing antibodies elicited by a p-nitrobenzyl phosphonate hapten. Tawfik DS, et al. **Eur J Biochem** 1997 Mar 1;244(2):619–26

Interleukin-10 and interleukin-4 have similar effects on hapten-specific primary antibody responses to penicillin in vivo. Kerdine S, et al. **Eur J Immunol** 1996 Dec; 26(12):2890–4

Hapten-carrier interactions and their role in the production of monoclonal antibodies against hydrophobic haptens. Fasciglione GF, et al. **Hybridoma** 1996 Feb;15(1):1–9

A comparison of the anti-idiotypic responses generated by antibodies to a protein and a hapten: a common interspecies idiotype on antibodies against human albumin induces an idiotypic network in rabbits. Comacchio RM, et al. **Immunol Cell Biol** 1996 Feb;74(1):72–80

Langerhans' cells produce type IV collagenase (MMP-9) following epicutaneous stimulation with haptens. Kobayashi Y. **Immunology** 1997 Apr;90(4):496–501

Unusual discrimination against carrier protein antibodies during partial purification of hapten-protein polyclonal antibodies to plant stress hormones. Manju RV, et al. **Indian J Exp Biol** 1995 Jan;33(1):1–5

Haptenic side chains as posttranslational IgE-binding determinants among pollen protein allergens. Berrens L, et al. **Int Arch Allergy Immunol** 1997 May-Jul; 113(1–3):236–7

Prevention of dextran anaphylaxis. Ten years experience with hapten dextran. Hedin H, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):358–9

TCR V alpha chain expression influences reactivity to the

hapten TNP. Dieli F, et al. **Int Immunol** 1997 Jan;9(1):1-8
Induction of a non-oscillating, long-lasting humoral immune response to an internal network antigen. Lange H, et al. **Int Immunol** 1996 May;8(5):683-8
Targeting BCL1 lymphoma with anti-idiotype antibodies: biodistribution kinetics of directly labeled antibodies and bispecific antibody-targeted bivalent haptens. Manetti C, et al. **Int J Cancer** 1997 Jun 11;71(6):1000-9
A new assay system detecting antibody production and delayed-type hypersensitivity responses to trinitrophenyl hapten in an individual mouse. Yoshii H, et al. **Int J Immunopharmacol** 1996 Jan;18(1):31-6
Dissection of antigenic and irritative effects of epicutaneously applied haptens in mice. Evidence that not the antigenic component but nonspecific proinflammatory effects of haptens determine the concentration-dependent elicitation of allergic contact dermatitis. Grabbe S, et al. **J Clin Invest** 1996 Sep 1;98(5):1158-64
Interaction between antibodies and hapten-protein conjugates of different composition: theoretical predictions and experimental data. Zherdev AV, et al. **J Immunoassay** 1997 Feb;18(1):67-95
Hapten-induced model of murine inflammatory bowel disease: mucosa immune responses and protection by tolerance. Elson CO, et al. **J Immunol** 1996 Sep 1; 157(5):2174-85
Carrier-independent hapten recognition and promiscuous MHC restriction by CD4 T cells induced by trinitrophenylated peptides. Kohler J, et al. **J Immunol** 1997 Jan 15;158(2):591-7
Conversion of low antibody responders into high responders by up-regulating the T cell response to a selective epitope. Mikszta JA, et al. **J Immunol** 1996 Oct 1;157(7):2883-90
MHC class I+/II- dendritic cells induce hapten-specific immune responses in vitro and in vivo. Kolesaric A, et al. **J Invest Dermatol** 1997 Oct;109(4):580-5
Immunogenicity studies with haptenated melittin peptides: implication for membrane involvement during the recognition step. Curcio-Vonlanthen V, et al. **J Pept Sci** 1996 Jul-Aug;2(4):252-60
Assessment of humoral immune response in mink (Mustela vison): antibody production and detection. Smits JE, et al. **J Wildl Dis** 1996 Apr;32(2):358-61
Production of antisera using peptide conjugates. Adrian TE. **Methods Mol Biol** 1997;73:239-49
V lambda-light chain genes reconstitute immune responses to defined carbohydrate antigens or haptens by utilizing different VH genes. Bot A, et al. **Mol Immunol** 1996 Dec; 33(17-18):1359-68
Evidence for hapten recognition in receptor-mediated intracellular uptake of a hapten-protein conjugate by murine macrophage. Cherukuri A, et al. **Mol Immunol** 1997 Jan;34(1):21-32
Efficacy of a therapeutic cocaine vaccine in rodent models [see comments] Fox BS, et al. **Nat Med** 1996 Oct; 2(10):1129-32. Comment in: Nat Med 1996 Oct;2(10):1073-4.
Cocaine vaccines revisited [comment] Wise RA, et al. **Nat Med** 1996 Oct;2(10):1073-4. Comment on: Nat Med 1996 Oct;2(10):1129-32.
Targeting of antihapten antibodies to activated T cells via an IL-2-hapten conjugate prolongs cardiac graft survival. Lussow AR, et al. **Transplantation** 1996 Dec 27; 62(12):1703-8
[Whether allergic contact dermatitis is necessary to induce systemic immunization by applied hapten] Hamamatsu Y. **Nippon Ika Daigaku Zasshi** 1997 Jun;64(3):249-55 (Eng. Abstr.) **(Jpn)**

METABOLISM

Critical evaluation of the applicability of capillary zone electrophoresis for the study of hapten-antibody complex formation. Busch MH, et al. **J Chromatogr A** 1996 Sep 13;744(1-2):195-203
Comparative docking studies on ligand binding to the multispecific antibodies IgE-La2 and IgE-Lb4. Sotriffer CA, et al. **J Comput Aided Mol Des** 1996 Aug;10(4):305-20
Redirecting circulating antibodies via ligand-hapten conjugates eliminates target cells in vivo. Lussow AR, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jul; 19(4):257-65
Comparative molecular field analysis of haptens docked to the multispecific antibody IgE(Lb4). Gamper AM, et al. **J Med Chem** 1996 Sep 27;39(20):3882-8
Immunogenicity studies with haptenated melittin peptides: implication for membrane involvement during the recognition step. Curcio-Vonlanthen V, et al. **J Pept Sci** 1996 Jul-Aug;2(4):252-60

PHARMACOLOGY

Induction of an epitope-specific humoral immune response by lipopeptide-hapten conjugates: enhancement of the anti-melittin response by a synthetic T helper (Th)-cell epitope. Hoffmann P, et al. **FEMS Immunol Med Microbiol** 1997 Apr;17(4):225-34
Hapten-carrier interactions and their role in the production of monoclonal antibodies against hydrophobic haptens. Fasciglione GF, et al. **Hybridoma** 1996 Feb;15(1):1-9
Flow-cytometric screening for the modulation of receptor-mediated endocytosis in human dendritic cells: implications for the development of an in vitro technique for predictive testing of contact sensitizers. Becker D, et al. **J Immunol Methods** 1997 Apr 25;203(2):171-80
Photohaptenic properties of fluoroquinolones. Tokura Y, et al. **Photochem Photobiol** 1996 Nov;64(5):838-44

THERAPEUTIC USE

Down-regulation of poison ivy/oak-induced contact sensitivity by treatment with a class II MHC binding peptide:hapten conjugate. Gelber C, et al. **J Immunol** 1997 Mar 1;158(5):2425-34

TOXICITY

High and low doses of haptens dictate whether dermal or epidermal antigen-presenting cells promote contact hypersensitivity. Bacci S, et al. **Eur J Immunol** 1997 Feb; 27(2):442-8

HAPTOGLOBINS

ADMINISTRATION & DOSAGE

[The effects of administration of haptoglobin for hemolysis by extracorporeal circulation] Kanamori Y, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):463-7 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Cancer cells release a covalent complex containing disulfide-linked domains from urinary plasminogen activator, neural cell adhesion molecule, and haptoglobin alpha and beta chains. Harvey SR, et al. **Arch Biochem Biophys** 1997 Sep 15;345(2):289-98
Haptoglobin concentration in serum and other body fluids measured by comparison of its reactivity with hemoglobin and concanavalin A. Kątnik I, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):45-50
Serum haptoglobin concentration in growing swine after intranasal challenge with Bordetella bronchiseptica and toxigenic Pasteurella multocida type D. Francisco CJ, et al. **Can J Vet Res** 1996 Jul;60(3):222-7
A comparison of serum haptoglobin levels between acute exacerbation and clinical remission in asthma. Koh YY, et al. **Clin Exp Allergy** 1996 Oct;26(10):1202-9
Acute-phase proteins in perinatal human plasma. Liberatori S, et al. **Electrophoresis** 1997 Mar-Apr;18(3-4):520-6
Intravascular haemolysis in hypertrophic cardiomyopathy [letter] Lambert M, et al. **Eur Heart J** 1996 Oct; 17(10):1601-2
Genetic polymorphism of AHSG, FXIIIB, HP and PLG serum proteins in six Jewish groups in Israel. Cleve H, et al. **Hum Hered** 1997 Jul-Aug;47(4):203-10
Serum haptoglobin and ferritin during a competitive running and swimming season. Pizza FX, et al. **Int J Sports Med** 1997 May;18(4):233-7
Study of haptoglobin-hemoglobin complexes by titration curves, capillary electrophoresis and capillary isoelectric focusing. Righetti PG, et al. **J Chromatogr A** 1997 Apr 11;767(1-2):255-62
Comparison of haptoglobin and apolipoprotein A-I on biliary lipid particles involved in cholesterol crystallization. Yamashita G, et al. **J Gastroenterol Hepatol** 1996 Aug; 11(8):738-45
Haptoglobin polymorphism and chronic hepatitis C. Louagie HK, et al. **J Hepatol** 1996 Jul;25(1):10-4
C-reactive protein and haptoglobin in the evaluation of a community-based malaria control programme. McGuire W, et al. **Trans R Soc Trop Med Hyg** 1996 Jan-Feb; 90(1):10-4
Serum haptoglobin as an indicator of the acute phase response in bovine respiratory disease. Godson DL, et al. **Vet Immunol Immunopathol** 1996 Jun 1;51(3-4):277-92
[Selection criteria for the establishment of reference values in tropical zones. Application to specific proteins: C-reactive protein, haptoglobin, transferrin in gabonese children] Ngou-Milama E, et al. **Bull Soc Pathol Exot** 1997; 90(1):33-6 (Eng. Abstr.) **(Fre)**

BIOSYNTHESIS

A haptoglobin-like glycoprotein is produced by implantation-stage rabbit endometrium. Hoffman LH, et al. **Biol Reprod** 1996 Jul;55(1):176-84
Coordinate expression of group II phospholipase A2 and the acute-phase proteins haptoglobin (HP) and alpha1-anti-chymotrypsin (ACH) by HepG2 cells. Vadas P, et al. **Clin Exp Immunol** 1997 Apr;108(1):175-80
The carboxyl-terminal region of STAT3 controls gene induction by the mouse haptoglobin promoter. Kim H, et al. **J Biol Chem** 1997 Jun 6;272(23):14571-9

CHEMISTRY

Determination of intermediates of hemoglobin-haptoglobin complex of haptoglobin polymers by "Crossed hemoglobin electrophoresis". Okazaki T, et al. **Anal Biochem** 1996 Aug 1;239(2):123-9

DEFICIENCY

Congenital haptoglobin deficiency [letter] Manoharan A. **Blood** 1997 Aug 15;90(4):1709

GENETICS

Haptoglobin polymorphism, a genetic risk factor in coronary artery bypass surgery. Delanghe J, et al. **Atherosclerosis** 1997 Jul 25;132(2):215-9
Properties of nuclear matrix proteins that bind the 5' flanking region of the haptoglobin gene are changed during the acute-phase response. Poznanović G, et al. **Cell Biol Int** 1996 Nov;20(11):751-62
Relation between serum IgA concentration and haptoglobin type [letter] Langlois M, et al. **Clin Chem** 1996 Oct; 42(10):1722-3
Biological and clinical significance of haptoglobin polymorphism in humans. Langlois MR, et al. **Clin Chem** 1996 Oct;42(10):1589-600 (160 ref.)
Genetic polymorphisms and erythrocyte sodium-lithium countertransport in essential hypertension. Tournoy KG, et al. **Clin Chim Acta** 1996 Nov 15;255(1):39-55
Tissue, temporal and inducible expression pattern of haptoglobin in mice. D'Armiento J, et al. **Gene** 1997 Aug 11;195(1):19-27
Type distribution and allele frequencies of three serum proteins in the Asiago Plateau population (northern Italy). Ponzano E, et al. **Gene Geogr** 1996 Aug;10(2):147-50
Haptoglobin phenotypes and gene frequencies in bipolar disorder: an association study in family-history subgroups [published erratum appears in Hum Hered 1997 May-Jun;47(3):172] Fánanás L, et al. **Hum Hered** 1997 Jan-Feb;47(1):27-32
Association of haptoglobin types with arterial blood pressure [letter] Babu BV. **Indian J Physiol Pharmacol** 1997 Apr; 41(2):185-6
The carboxyl-terminal region of STAT3 controls gene induction by the mouse haptoglobin promoter. Kim H, et al. **J Biol Chem** 1997 Jun 6;272(23):14571-9
[The genetic polymorphism of haptoglobin and the severity of essential arterial hypertension] Monteiro CP, et al. **Rev Port Cardiol** 1997 Jan;16(1):81-4 **(Por)**
[Dependence of the concentration of maternal serum markers on the haptoglobin gene] Chivilev IV, et al. **Genetika** 1997 Mar;33(3):399-404 (Eng. Abstr.) **(Rus)**
[Features of the distribution of haplotype phenotypes and genes in the Armenian population] Nersisian VM, et al. **Genetika** 1996 Dec;32(12):1673-7 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Immunoblot detection of decreased antibodies to haptoglobin-like protein in the serum of infertile women with or without endometriosis. Berkova N, et al. **Biol Reprod** 1997 Jul;57(1):178-85

METABOLISM

Effect of haptoglobin on the metabolism of vitamin C. Langlois MR, et al. **Am J Clin Nutr** 1997 Sep;66(3):606-10
Analysis of the affinity of each haptoglobin polymer for hemoglobin by two-dimensional affinity electrophoresis. Okazaki T, et al. **Clin Chim Acta** 1997 Feb 17;258(2):137-44
Seasonal variations of blood haptoglobin level of brown bears in Japan. Mominoki K, et al. **Comp Biochem Physiol A Physiol** 1996 Aug;114(4):349-53
Evolution of haptoglobin concentration in serum during the early phase of acute myocardial infarction. Bernard DR, et al. **Eur J Clin Chem Clin Biochem** 1997 Feb;35(2):85-8
Distribution of lymphocyte subsets in bone marrow and peripheral blood is associated with haptoglobin type. Binding of haptoglobin to the B-cell lectin CD22. Langlois M, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar; 35(3):199-205
Tissue, temporal and inducible expression pattern of haptoglobin in mice. D'Armiento J, et al. **Gene** 1997 Aug 11;195(1):19-27
Postmortem diagnosis of diabetic metabolic derangement: elevated alpha 1-antitrypsin and haptoglobin glycosylation levels as an index of antemortem hyperglycemia. Ritz S, et al. **J Forensic Sci** 1996 Jan;41(1):94-100
Haptoglobin in rheumatic fever. Anil K, et al. **Mater Med Pol** 1995 Jul-Sep;27(3):108-10
Lack of correlation between haptoglobin concentration and trypanolytic activity of normal human serum. Raper J, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1-2):337-8
Molecular characterization of hpuAB, the haemoglobin-haptoglobin-utilization operon of Neisseria meningitidis. Lewis LA, et al. **Mol Microbiol** 1997 Feb; 23(4):737-49

PHARMACOLOGY

[Effects of exocorpol and haptoglobin on hemolysis during ECC] Nagamine S, et al. **Rinsho Kyobu Geka** 1989 Aug; 9(4):381-4 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Oxidation of low-density lipoprotein by hemoglobin stems from a heme-initiated globin radical: antioxidant role of haptoglobin. Miller YI, et al. **Biochemistry** 1997 Oct 7; 36(40):12189-98
[Unending history of haptoglobin--the last five years] Dobryszycka W. **Postepy Hig Med Dosw** 1997;51(3):243-68 (134 ref.) **(Pol)**

HARASSMENT, NONSEXUAL see **SOCIAL BEHAVIOR**

HARASSMENT, SEXUAL see **SEXUAL HARASSMENT**

HARDERIAN GLAND

Cell biology of the harderian gland. Chieffi G, et al. **Int Rev Cytol** 1996;168:1–80 (317 ref.)

Infectivity in extraneural tissues following intraocular scrapie infection. Fraser JR. **J Gen Virol** 1996 Oct;77 (Pt 10):2663–8

ANATOMY & HISTOLOGY

Squamate Harderian gland: an overview. Rehorek SJ. **Anat Rec** 1997 Jul;248(3):301–6 (53 ref.)

Comparative histological and ultrastructural studies of the Harderian gland of rodents. Djeridane Y. **Microsc Res Tech** 1996 May 1;34(1):28–38

The lymphoid substance of the chicken's harderian gland is organized in two histologically distinct compartments. Oláh I, et al. **Microsc Res Tech** 1996 Jun 1;34(2):166–76

The avian Harderian gland: morphology and immunology. Shirama K, et al. **Microsc Res Tech** 1996 May 1;34(1):16–27 (55 ref.)

CHEMISTRY

Molecular cloning of a novel mRNA (harderin) specifically and highly expressed in the Harderian gland of the frog, Rana esculenta. Aniello F, et al. **Biochem Mol Biol Int** 1996 Feb;38(2):401–8

Isolation and identification of sex-specific cDNA clones from the Syrian hamster harderian gland. Domínguez P, et al. **Microsc Res Tech** 1996 Jun 1;34(2):111–7

Expression of the somatostatin gene and receptors in the rat harderian gland. Mato ME, et al. **Microsc Res Tech** 1996 Jun 1;34(2):118–22

Hormones and the control of porphyrin biosynthesis and structure in the hamster harderian gland. Payne AP, et al. **Microsc Res Tech** 1996 Jun 1;34(2):123–32 (84 ref.)

Occurrence of androgen and estrogen receptor mRNAs in the harderian gland: a comparative survey. Varriale B. **Microsc Res Tech** 1996 Jun 1;34(2):97–103 (33 ref.)

CYTOLOGY

Number of mast cells in the Harderian gland of the lizard Podarcis sicula sicula (Raf): the annual cycle and its relation to environmental factors and estradiol administration. Vitiello II, et al. **Gen Comp Endocrinol** 1997 Sep; 107(3):394–400

New insights into the cytodynamics of the hamster Harderian gland as provided by the bromodeoxyuridine-labelling method. Fernandez-Suarez A, et al. **Histol Histopathol** 1996 Apr;11(2):351–5

Atrial natriuretic peptide, bradykinin, and angiotensin II-like immunoreactivity in the harderian gland of the terrapin Pseudemys scripta: response to osmotic stress. Masini MA, et al. **J Exp Zool** 1996 Dec 15;276(6):425–31

Possible migration of harderian gland immunoglobulin A bearing lymphocytes into the caecal tonsil in chickens. Akaki C, et al. **Zentralbl Veterinarmed [B]** 1997 Jun; 44(4):199–206

DRUG EFFECTS

Effects of chronic administration of cytidine-5'-diphosphate choline (CDP choline) on the aged female mouse Harderian gland. Verduga R, et al. **Anat Embryol (Berl)** 1997 Feb; 195(2):209–14

Effects of prolactin and cortisol on the Harderian gland of the terrapin, Pseudemys scripta, adapted to different salinities. Baccari GC, et al. **Anat Rec** 1996 Feb; 244(2):225–34

ENZYMOLOGY

Novel regulation of delta-aminolevulinate synthase in the rat harderian gland. Nagai M, et al. **Biochem Pharmacol** 1997 Mar 7;53(5):643–50

Separation and characterisation of cyclic nucleotide phosphodiesterases from the lacrimal, harderian and zygomatic glands of the rabbit. Koutavas H, et al. **Curr Eye Res** 1996 Dec;15(12):1191–7

Sexual differences in 5'-deiodinase activity in the Harderian gland of Syrian hamsters and the effect of pinealectomy: regulation by androgens. Rubio A, et al. **J Cell Biochem** 1996 Sep 1;62(3):397–404

Different experimental conditions which regulate type II 5'-deiodinase mRNA in rat Harderian gland. Garcia-Macias JF, et al. **Life Sci** 1997;61(2):181–92

Regulation of the aminolevulinate synthase gene in the Syrian hamster Harderian gland: changes during development and circadian rhythm and role of some hormones. Rodriguez C, et al. **Microsc Res Tech** 1996 May 1;34(1):65–70 (50 ref.)

Mg(2+)-dependent and Ca2+, Mg(2+)-dependent ATPase activities in the harderian gland of rodents: age and sex influences. Vaughan MK, et al. **Microsc Res Tech** 1996 Jun 1;34(2):144–8

GROWTH & DEVELOPMENT

Organogenesis of the Harderian gland: a comparative survey. Baccari GC. **Microsc Res Tech** 1996 May 1;34(1):6–15 (18 ref.)

Postnatal development of cell types in the hamster Harderian gland. Lopez JM, et al. **Microsc Res Tech** 1996 May 1; 34(1):48–54

Postnatal development of the harderian gland in the rabbit: light and electron microscopic observations. Shirama K, et al. **Microsc Res Tech** 1997 Jun 1–15;37(5–6):572–82

IMMUNOLOGY

Phenotypic analysis of resident lymphoid cells in the conjunctiva and adnexal tissues of rat. Gomes JA, et al. **Exp Eye Res** 1997 Jun;64(6):991–7

The lymphoid substance of the chicken's harderian gland is organized in two histologically distinct compartments. Oláh I, et al. **Microsc Res Tech** 1996 Jun 1;34(2):166–76

The harderian gland in autoimmune diabetes of the nonobese diabetic mouse. Papaccio G, et al. **Microsc Res Tech** 1996 Jun 1;34(2):156–65

Immune cell proliferation in the harderian gland: an avian model. Scott TR, et al. **Microsc Res Tech** 1996 Jun 1; 34(2):149–55

The avian Harderian gland: morphology and immunology. Shirama K, et al. **Microsc Res Tech** 1996 May 1;34(1):16–27 (55 ref.)

METABOLISM

Localization of porphyrin in mouse Harderian glands. Park SH, et al. **Arch Histol Cytol** 1996 May;59(2):189–95

Binding of [125I]iodocyanopindolol by rat harderian gland crude membranes: kinetic characteristics and day-night variations. Harmouch A, et al. **Biosci Rep** 1996 Oct; 16(5):369–77

Immunochemical and in situ hybridization analyses of retinoic acid receptor alpha, beta, and gamma in murine Harderian and submandibular glands. Zhuang YH, et al. **Histochem Cell Biol** 1996 Sep;106(3):311–8

Androgen receptor in rat Harderian and submandibular glands. Zhuang YH, et al. **Histochem J** 1996 Jul; 28(7):477–83

Putative melatonin receptors in the blind mole rat harderian gland. Gilad E, et al. **J Exp Zool** 1997 Apr 15;277(6):435–41

Sexual dimorphism in the harderian gland of the Syrian hamster is controlled and maintained by hormones, despite seasonal fluctuations in hormone levels: functional implications. Buzzell GR. **Microsc Res Tech** 1996 Jun 1; 34(2):133–8 (30 ref.)

Characterization of binding sites for beta-adrenergic agonists and vasoactive intestinal peptide in the rat harderian gland. Guerrero JM, et al. **Microsc Res Tech** 1996 Jun 1; 34(2):139–43

Hormones and the control of porphyrin biosynthesis and structure in the hamster harderian gland. Payne AP, et al. **Microsc Res Tech** 1996 Jun 1;34(2):123–32 (84 ref.)

Lipid secretory mechanisms in the mammalian harderian gland. Satoh Y, et al. **Microsc Res Tech** 1996 Jun 1; 34(2):104–10 (47 ref.)

Sexual diversity of the lipid metabolism in the Harderian gland of the golden hamster. Seyama Y, et al. **Microsc Res Tech** 1996 May 1;34(1):71–6

Invasive processes in the normal Harderian gland of Syrian hamster. Tolivia D, et al. **Microsc Res Tech** 1996 May 1; 34(1):55–64

[Functional morphology of harderian gland] Satoh Y, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1113–9 (35 ref.) **(Jpn)**

[The harderian gland in mammals: The biochemical and physiological aspects] Bodiak ND. **Izv Akad Nauk Ser Biol** 1996 Nov-Dec;(6):725–35 (92 ref.) (Eng. Abstr.) **(Rus)**

PATHOLOGY

Both K-ras and H-ras protooncogene mutations are associated with Harderian gland tumorigenesis in B6C3F1 mice exposed to isoprene for 26 weeks. Hong HL, et al. **Carcinogenesis** 1997 Apr;18(4):783–9

Castration increases cell damage induced by porphyrins in the Harderian gland of male Syrian hamster. Necrosis and not apoptosis mediates the subsequent cell death. Antolín I, et al. **J Struct Biol** 1996 May-Jun;116(3):377–89

Histopathological features of the Harderian glands in transgenic mice carrying MMTV/N-ras protooncogene. Coto-Montes A, et al. **Microsc Res Tech** 1997 Aug 1; 38(3):311–4

PHYSIOLOGY

Androgen-dependent mast cell degranulation in the Harderian gland of female Syrian hamsters: in vivo and organ culture evidence. Mayo JC, et al. **Anat Embryol (Berl)** 1997 Aug;196(2):133–40

Environmental factors and annual harderian-pineal-gonadal interrelationship in Indian jungle bush quail, Perdicula asiatica. Dubey S, et al. **Gen Comp Endocrinol** 1997 Apr; 106(1):17–22

The Harderian gland: perspectives. Buzzell GR. **Microsc Res Tech** 1996 May 1;34(1):2–5 (30 ref.)

Sexual dimorphism in the harderian gland of the Syrian hamster is controlled and maintained by hormones, despite seasonal fluctuations in hormone levels: functional implications. Buzzell GR. **Microsc Res Tech** 1996 Jun 1; 34(2):133–8 (30 ref.)

Harderian gland function of Indian tropical palm squirrel, Funambulus pennanti. Haldar C. **Microsc Res Tech** 1996 May 1;34(1):39–47

Hormonal regulation of FHG22 mRNA in Syrian hamster harderian glands: role of estradiol. Varriale B, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):87–96

Grooming secretions and seasonal adaptations in the blind mole rat (Spalax ehrenbergi). Shanas U, et al. **Physiol Behav** 1996 Aug;60(2):653–6

RADIATION EFFECTS

Effect of the photoperiod in modulating the androgenic control of 1-alkyl-2,3-diacylglycerol composition in the harderian gland of the golden hamster, Mesocricetus auratus. Buzzell GR, et al. **J Exp Zool** 1997 Feb 1; 277(2):99–105

SECRETION

Secretagogue-induced apocrine secretion in the Harderian gland of the rat. Gesase AP, et al. **Cell Tissue Res** 1996 Sep;285(3):501–7

ULTRASTRUCTURE

Effects of prolactin and cortisol on the Harderian gland of the terrapin, Pseudemys scripta, adapted to different salinities. Baccari GC, et al. **Anat Rec** 1996 Feb; 244(2):225–34

Ultrastructural study on the harderian gland of the rabbit (Oryctolagus cuniculus). Shirama K, et al. **Folia Morphol (Warsz)** 1996;55(3):133–41

Expression of argyrophilic nucleolar organizer regions (AgNORs) in the harderian gland of male and female hamsters during postnatal development. Fernández-Suárez A, et al. **Histol Histopathol** 1997 Jul;12(3):729–34

Comparative histological and ultrastructural studies of the Harderian gland of rodents. Djeridane Y. **Microsc Res Tech** 1996 May 1;34(1):28–38

[Functional morphology of harderian gland] Satoh Y, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1113–9 (35 ref.) **(Jpn)**

HARDNESS TESTS

INSTRUMENTATION

Durometer measurements of skin induration in venous disease. LeBlanc N, et al. **Dermatol Surg** 1997 Apr; 23(4):285–7

METHODS

Near-infrared spectroscopy as a nondestructive alternative to conventional tablet hardness testing. Morisseau KM, et al. **Pharm Res** 1997 Jan;14(1):108–11

HARDWARE, COMPUTER see **COMPUTERS**

HARELIP see **CLEFT LIP**

HARES see **LAGOMORPHA**

HARMALINE

ADMINISTRATION & DOSAGE

Central serotonin level-dependent changes in body temperature following administration of tryptophan to pargyline- and harmaline-pretreated rats. Abdel-Fattah AF, et al. **Gen Pharmacol** 1997 Mar;28(3):405–9

ANALOGS & DERIVATIVES

Chemistry and biological activity of a tryptamine and beta-carboline series of bases. Begum S, et al. **Arzneimittelforschung** 1996 Dec;46(12):1163–8

ANTAGONISTS & INHIBITORS

Harmaline-induced tremor and impairment of learning are both blocked by dizocilpine in the rabbit. Du W, et al. **Brain Res** 1997 Jan 16;745(1–2):183–8

BLOOD

Quantitation of N,N-dimethyltryptamine and harmala alkaloids in human plasma after oral dosing with ayahuasca. Callaway JC, et al. **J Anal Toxicol** 1996 Oct;20(6):492–7

CHEMICAL SYNTHESIS

Chemistry and biological activity of a tryptamine and beta-carboline series of bases. Begum S, et al. **Arzneimittelforschung** 1996 Dec;46(12):1163–8

PHARMACOLOGY

Facilitatory and inhibitory effects of harmaline on the tryptophan-induced 5-hydroxytryptamine syndrome and body temperature changes in pargyline-pretreated rats. Abdel-Fattah AF, et al. **Jpn J Pharmacol** 1996 Sep; 72(1):39–47

The effects of noribogaine and harmaline in rats trained with ibogaine as a discriminative stimulus. Helsley S, et al. **Life Sci** 1997;60(9):PL147–53

TOXICITY

Harmaline-induced tremor and impairment of learning are both blocked by dizocilpine in the rabbit. Du W, et al. **Brain Res** 1997 Jan 16;745(1-2):183-8

HARMIDINE see **HARMALINE**

HARMINE

ANALOGS & DERIVATIVES

New 'state' markers for the detection of alcoholism. Lesch OM, et al. **Alcohol Alcohol** 1996 Mar;31 Suppl 1:59-62 (30 ref.)

Excretion of beta-carbolines harman and norharman in 24-hour urine of chronic alcoholics during withdrawal and controlled abstinence. Wodarz N, et al. **Alcohol Clin Exp Res** 1996 Jun;20(4):706-10

Changes in acid-base equilibria of harmine and harmane inclusion complexes with cyclodextrins. Martín L, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):87-8

Uptake of sulfate conjugates by isolated rat hepatocytes [published erratum appears in Drug Metab Dispos 1996 Aug;24(8):925] Hassen AM, et al. **Drug Metab Dispos** 1996 Jul;24(7):792-8

Harman-induced changes of extracellular concentrations of neurotransmitters in the nucleus accumbens of rats. Baum SS, et al. **Eur J Pharmacol** 1996 Oct 24;314(1-2):75-82

Quantitation of N,N-dimethyltryptamine and harmala alkaloids in human plasma after oral dosing with ayahuasca. Callaway JC, et al. **J Anal Toxicol** 1996 Oct;20(6):492-7

Elevated levels of harman and norharman in cerebrospinal fluid of parkinsonian patients. Kuhn W, et al. **J Neural Transm** 1996;103(12):1435-40

Plasma harman and norharman in Parkinson's disease. Kuhn W, et al. **J Neural Transm Suppl** 1995;46:291-5

Effect of erythrocyte binding on elimination of harmol by the isolated perfused rat liver. Morgan DJ, et al. **J Pharm Sci** 1996 Jan;85(1):40-4

Action of harman (1-methyl-beta-carboline) on the brain: body temperature and in vivo efflux of 5-HT from hippocampus of the rat. Adell A, et al. **Neuropharmacology** 1996;35(8):1101-7

Trait anxiety, coping with stress, and norharman. Verheij R, et al. **Psychol Rep** 1997 Feb;80(1):51-9

[The clinical efficacy of the Ukrainian preparation Ambocarb] Kut'ko II, et al. **Lik Sprava** 1995 Sep-Dec; (9-12):96-8 **(Rus)**

CHEMISTRY

Changes in acid-base equilibria of harmine and harmane inclusion complexes with cyclodextrins. Martín L, et al. **Biomed Chromatogr** 1997 Mar-Apr;11(2):87-8

METABOLISM

11C-harmine as a tracer for monoamine oxidase A (MAO-A): in vitro and in vivo studies. Bergström M, et al. **Nucl Med Biol** 1997 May;24(4):287-93

PHYSIOLOGY

Adrenalectomy protects ethanol-withdrawn rats from harmine-induced tremor. Lamblin F, et al. **Alcohol Alcohol** 1996 Mar;31(2):175-81

HARRINGTONINES

PHARMACOLOGY

Effects of homoharringtonine alone and in combination with alpha interferon and cytosine arabinoside on 'in vitro' growth and induction of apoptosis in chronic myeloid leukemia and normal hematopoietic progenitors. Visani G, et al. **Leukemia** 1997 May;11(5):624-8

[Effect of homoharringtonine on lens epithelial cells in rabbits] Zhang K, et al. **Yen Ko Hsueh Pao** 1995 Dec; 11(4):192-6 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

[An experimental study on homoharringtonine and glaucoma surgery] Peng D, et al. **Yen Ko Hsueh Pao** 1995 Jun; 11(2):76-9 (Eng. Abstr.) **(Chi)**

HARTMANNELLA

GROWTH & DEVELOPMENT

Differences in isoenzyme patterns of axenically and monoxenically grown Acanthamoeba and Hartmannella. Weekers PH, et al. **Antonie Van Leeuwenhoek** 1997 Mar; 71(3):231-7

ISOLATION & PURIFICATION

Hartmannella vermiformis isolated from the cerebrospinal fluid of a young male patient with meningoencephalitis and bronchopneumonia. Centeno M, et al. **Arch Med Res** 1996 Winter;27(4):579-86

METABOLISM

Differences in isoenzyme patterns of axenically and monoxenically grown Acanthamoeba and Hartmannella. Weekers PH, et al. **Antonie Van Leeuwenhoek** 1997 Mar; 71(3):231-7

MICROBIOLOGY

Identification of a Gal/GalNAc lectin in the protozoan Hartmannella vermiformis as a potential receptor for attachment and invasion by the Legionnaires' disease bacterium. Venkataraman C, et al. **J Exp Med** 1997 Aug 18;186(4):537-47

HARTNUP DISEASE

GENETICS

Genetic mapping of hph2, a mutation affecting amino acid transport in the mouse. Symula DJ, et al. **Mamm Genome** 1997 Feb;8(2):98-101

METABOLISM

A candidate mouse model for Hartnup disorder deficient in neutral amino acid transport. Symula DJ, et al. **Mamm Genome** 1997 Feb;8(2):102-7

HARVEST MITES see **TROMBICULID MITES**

HARVEY SARCOMA VIRUS

GENETICS

Cytokine-facilitated transduction leads to low-level engraftment in nonablated hosts. Kittler EL, et al. **Blood** 1997 Jul 15;90(2):865-72

Viral interference during simultaneous transduction with two independent helper-free retroviral vectors. Walker PS, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1131-8

HIV-1 nucleocapsid protein induces "maturation" of dimeric retroviral RNA in vitro. Feng YX, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7577-81

HASHIMOTO'S DISEASE see **THYROIDITIS, AUTOIMMUNE**

HASHISH see **CANNABIS**

HASHISH ABUSE see **MARIJUANA ABUSE**

HASHISH SMOKING see **MARIJUANA SMOKING**

HATE

Hate crime violence and its emergency department management. Hutson HR, et al. **Ann Emerg Med** 1997 Jun; 29(6):786-91 (34 ref.)

Ferenczi's Clinical Diary: on loving and hating. Friedman JA. **Int J Psychoanal** 1995 Oct;76 (Pt 5):957-75

Clinical and developmental dimensions of hate. Blum HP. **J Am Psychoanal Assoc** 1997;45(2):358-75

HAVERSIAN SYSTEM

ANATOMY & HISTOLOGY

Osteonal structure in the equine third metacarpus. Martin RB, et al. **Bone** 1996 Aug;19(2):165-71

CYTOLOGY

Electrical signal transmission and gap junction regulation in a bone cell network: a cable model for an osteon. Zhang D, et al. **Ann Biomed Eng** 1997 Mar-Apr;25(2):357-74

METABOLISM

FTIR microspectroscopic analysis of human osteonal bone. Paschalis EP, et al. **Calcif Tissue Int** 1996 Dec;59(6):480-7

PHYSIOLOGY

Electrical signal transmission and gap junction regulation in a bone cell network: a cable model for an osteon. Zhang D, et al. **Ann Biomed Eng** 1997 Mar-Apr;25(2):357-74

The mechanical or metabolic function of secondary osteonal bone in the monkey Macaca fascicularis. Bouvier M, et al. **Arch Oral Biol** 1996 Oct;41(10):941-50

Pinching in longitudinal and alternate osteons during cyclic loading. Ascenzi A, et al. **J Biomech** 1997 Jul;30(7):689-95

ULTRASTRUCTURE

Osteoclastic resorption of Haversian systems in cortical bone of femoral neck in aged women. A scanning electron microscopic study. Chai B, et al. **Chin Med J (Engl)** 1996 Sep;109(9):705-10

Spatial organization of the haversian bone in man. Petrtýl M, et al. **J Biomech** 1996 Feb;29(2):161-9

HAWTHORNE EFFECT see **EFFECT MODIFIERS (EPIDEMIOLOGY)**

HAY FEVER

Does adenotonsillectomy affect the course of bronchial asthma and nasal allergy? Saito H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:212-5

Seasonal allergic rhinitis [published erratum appears in BMJ 19997 Jul 5;315(7099):42] Parikh A, et al. **BMJ** 1997 May 10;314(7091):1392-5 (38 ref.)

Diagnosis and management of seasonal and perennial allergic rhinitis. Tan RA, et al. **Compr Ther** 1996 Jun;22(6):363-74 (35 ref.)

Approaches to the treatment of seasonal allergic rhinitis. Pedinoff AJ. **South Med J** 1996 Dec;89(12):1130-9; quiz 1140-1 (43 ref.)

BLOOD

Suppressor T cell subsets in allergic rhinitis patients. Testa B, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):876-82

Study on changes in the level of serum IL-4 and soluble CD 23(s-CD23) with immunotherapy in nasal allergy patients. Ito H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:98-104

Clinical evaluation of histamine release test: a novel method for identifying allergens from the whole blood of allergic patients. Mamiya S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:93-7

Serum levels of eosinophil cationic protein and eosinophil protein x in pollen atopic patients with stable asthma and its relation with bronchial hyperresponsiveness. Chivato T, et al. **Allergol Immunopathol (Madr)** 1996 Nov-Dec; 24(6):243-7

Measurement of serum levels of eosinophil cationic protein to monitor patients with seasonal respiratory allergy induced by Parietaria pollen (treated and untreated with specific immunotherapy). D'Amato G, et al. **Allergy** 1996 Apr;51(4):245-50

Serum levels of specific IgE, soluble interleukin-2 receptor, and soluble intercellular adhesion molecule-1 in seasonal allergic rhinitis. Ohashi Y, et al. **Ann Allergy Asthma Immunol** 1997 Sep;79(3):213-20

Inhibition of the sodium, potassium adenosine triphosphatase enzyme in peripheral blood mononuclear cells of subjects with allergic rhinitis. Van Deusen MA, et al. **Ann Allergy Asthma Immunol** 1997 Mar;78(3):259-64

Diminution of T cells with gamma delta receptor in the peripheral blood of allergic asthmatic individuals. Chen KS, et al. **Clin Exp Allergy** 1996 Mar;26(3):295-302

The assay of interleukin 4 in the serum of normal subjects and atopic patients using a novel immunoassay. Jones KP, et al. **Cytokine** 1997 Jul;9(7):529-34

Hypoglycemic effect of terfenadine in patients of allergic rhinitis [letter] Chakravarti A, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):191-2

Serum level of soluble interleukin-2 receptor in patients with seasonal allergic rhinitis. Ohashi Y, et al. **Scand J Immunol** 1997 Mar;45(3):315-21

[Blood levels of eosinophil cationic protein in patients with allergic rhinitis. Evolution after treatment with corticoids] Alvarez Gutiérrez FJ, et al. **Arch Bronconeumol** 1997 Jan; 33(1):6-11 (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Bronchial asthma and allergic rhinitis in patients with hereditary palmoplantar keratoderma [letter] Gamborg Nielsen P. **Acta Derm Venereol** 1996 Sep;76(5):407-8

The mechanism of bronchial hyperreactivity in allergic rhinitis patients. A light microscopic study on BAL and bronchial biopsy. Bavbek S, et al. **Allergol Immunopathol (Madr)** 1996 Mar-Apr;24(2):45-53

Relevance of pollen-specific IgE levels to the development of Apiaceae hypersensitivity in patients with birch pollen allergy. Asero R. **Allergy** 1997 May;52(5):560-4

The natural course of allergic rhinitis during 12 years of follow-up. Danielsson J, et al. **Allergy** 1997 Mar; 52(3):331-4

Effects of salmeterol and terbutaline on IgE-mediated dermal reactions and inflammatory events in skin chambers in atopic patients. Grönneberg R, et al. **Allergy** 1996 Sep; 51(9):640-6

Oral allergy syndrome (OAS) in pollinosis patients after eating pistachio nuts: two cases with two different patterns of onset. Liccardi G, et al. **Allergy** 1996 Dec;51(12):919-22

Allergy to the ornamental indoor green plant Tradescantia (Albiflorida). Wüthrich B, et al. **Allergy** 1997 May; 52(5):556-9

Otitis media and its relation to allergic rhinitis. Fireman P. **Allergy Asthma Proc** 1997 May-Jun;18(3):135-43 (46 ref.)

Allergic rhinitis and asthma: how important is the link? Corren J. **J Allergy Clin Immunol** 1997 Feb;99(2):S781-6 (55 ref.)

Otitis media and eustachian tube dysfunction: connection to allergic rhinitis. Fireman P. **J Allergy Clin Immunol** 1997 Feb;99(2):S787-97 (95 ref.)

Poor biologic activity of cross-reactive IgE directed to carbohydrate determinants of glycoproteins. van der Veen MJ, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):327-34

Nonspecific bronchial hyperresponsiveness and development of asthma in children with hay fever. Añibarro B, et al. **Pediatr Allergy Immunol** 1995 Nov;6(4):200-3

The relation between physician-diagnosed sinusitis, asthma, and skin test reactivity to allergens in 8-year-old children. Lombardi E, et al. **Pediatr Pulmonol** 1996 Sep;22(3):141-6

Allergy to food in children with pollinosis. Buczyłko K, et al. **Rocz Akad Med Bialymst** 1995;40(3):568-72

Onset of Graves' thyrotoxicosis after an attack of allergic

rhinitis. Hidaka Y, et al. **Thyroid** 1996 Aug;6(4):349–51

DIAGNOSIS

How many teenagers think they have allergic rhinoconjunctivitis and what they do about it. Borres MP, et al. **Ann Allergy Asthma Immunol** 1997 Jan;78(1):29–34

Diagnosing nasal hyperreactivity with positional rhinomanometry. Altissimi G, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):901–4

Acoustic rhinometry in the study of the acute nasal allergic response. Lane AP, et al. **Ann Otol Rhinol Laryngol** 1996 Oct;105(10):811–8

The upper airway. Scadding GK. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):401–5 (17 ref.)

Endoscopic scoring system in patients with allergic rhinitis. Bavbek S, et al. **J Investig Allergol Clin Immunol** 1997 May–Jun;7(3):175–8

Non-specific nasal provocation in children with chronic allergic rhinitis. Giannico R, et al. **J Investig Allergol Clin Immunol** 1996 Mar–Apr;6(2):110–6

CAST-ELISA test—a new diagnostic tool in pollen allergy. Mędrala W, et al. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):32–5

A comparative immunological study of vasomotor rhinitis and pollinosis. Zieliński A. **J Investig Allergol Clin Immunol** 1996 Jul–Aug;6(4):261–5

Specific immunotherapy in pollinosis: I. Valuation of certain cytoimmunological indicators over the course of four years of immunotherapy in pollinosis. Zieliński AE. **J Investig Allergol Clin Immunol** 1996 Sep–Oct;6(5):307–14

Allergic diagnosis: skin testing and rast. Thurmond M, et al. **J La State Med Soc** 1997 May;149(5):141–3 (9 ref.)

Nasal smear eosinophilia for the diagnosis of allergic rhinitis and eosinophilic non-allergic rhinitis. Crobach M, et al. **Scand J Prim Health Care** 1996 Jun;14(2):116–21

[Diagnosis of allergy in family practice] Olsen OF. **Ugeskr Laeger** 1996 Nov 18;158(47):6775–7 (Eng. Abstr.) **(Dan)**

[Nasal hyperreactivity. Allergic rhinitis and differential diagnoses—consensus report on pathophysiology, classification, diagnosis and therapy] Bachert C, et al. **Laryngorhinootologie** 1997 Feb;76(2):65–76 (57 ref.) **(Ger)**

[Cell activation markers in rhinitis and rhinosinusitis. 1: Eosinophilic cationic protein (ECP)] Klimek L, et al. **Laryngorhinootologie** 1996 Nov;75(11):665–70 (Eng. Abstr.) **(Ger)**

[Diagnostic imaging and functional tests—allergic rhinitis] Takenaka H. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Dec; 99(12):1780–3 **(Jpn)**

[Determination of intercellular adhesion molecule-1 (ICAM-1) in nasal secretions of patients with rhinitis] Bujia J, et al. **Acta Otorrinolaringol Esp** 1997 Jan–Feb;48(1):11–4 (Eng. Abstr.) **(Spa)**

[Acoustic rhinometry: determination of early and late-phase reactions in allergic rhinitis] Bujia J, et al. **Acta Otorrinolaringol Esp** 1997 Jan–Feb;48(1):31–5 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Effect of H1 and H2 antagonists on nasal symptoms and mediator release in atopic patients after nasal allergen challenge during the pollen season. Wang D, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):91–6

Role of azelastine nasal spray in the symptomatic treatment of seasonal allergic rhinitis. Bellussi L, et al. **Adv Otorhinolaryngol** 1997;51:88–92

'Regular' versus 'as required' use of azelastine nasal spray in the treatment of seasonal allergic rhinitis. Passàli D, et al. **Adv Otorhinolaryngol** 1997;51:81–7

Onset of action in the nasal antihistaminic effect of cetirizine and loratadine in patients with allergic rhinitis. Frossard N, et al. **Allergy** 1997 Feb;52(2):205–9

Fluticasone propionate aqueous nasal spray compared with oral loratadine in patients with seasonal allergic rhinitis. Géhanno P, et al. **Allergy** 1997 Apr;52(4):445–50

Once-daily mometasone furoate aqueous nasal spray (Nasonex) in seasonal allergic rhinitis: an active- and placebo-controlled study. Hebert JR, et al. **Allergy** 1996 Aug;51(8):569–76

Sedation in allergic rhinitis is caused by the condition and not by antihistamine treatment. Spaeth J, et al. **Allergy** 1996 Dec;51(12):893–906

Can an antihistamine delay appearance of hay fever symptoms when given prior to pollen season? Stern MA, et al. **Allergy** 1997 Apr;52(4):440–4

Treatment of allergic rhinitis: effect on occupation productivity and work force costs. Fireman P. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):63–7 (10 ref.)

New formulation of aqueous flunisolide nasal spray in the treatment of allergic rhinitis: comparative assessment of safety, tolerability, and efficacy. Ratner P, et al. **Allergy Asthma Proc** 1996 May–Jun;17(3):149–56

Treatment of allergic rhinitis: effects of allergic rhinitis and antihistamines on performance. Storms WW. **Allergy Asthma Proc** 1997 Mar–Apr;18(2):59–61

IL-13 mRNA and immunoreactivity in allergen-induced rhinitis: comparison with IL-4 expression and modulation by topical glucocorticoid therapy. Ghaffar O, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):17–24

Budesonide aqueous nasal spray and pressurized metered dose inhaler in the treatment of adult patients with seasonal allergic rhinitis. Day J, et al. **Am J Rhinol** 1997 Jan–Feb; 11(1):77–83

Treatment strategies designed to minimize medical complications of allergic rhinitis. Fireman P. **Am J Rhinol** 1997 Mar–Apr;11(2):95–102 (42 ref.)

A comparison of aqueous suspensions of budesonide nasal spray (128 micrograms and 256 micrograms once daily) and fluticasone propionate nasal spray (200 micrograms once daily) in the treatment of adult patients with seasonal allergic rhinitis. Stern MA, et al. **Am J Rhinol** 1997 Jul–Aug;11(4):323–30

Dose ranging study of mometasone furoate (Nasonex) in seasonal allergic rhinitis. Bronsky EA, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):51–6

Low dose clemastine inhibits sneezing and rhinorrhea during the early nasal allergic reaction. Chung JH, et al. **Ann Allergy Asthma Immunol** 1997 Mar;78(3):307–12

Onset of action and efficacy of terfenadine, astemizole, cetirizine, and loratadine for the relief of symptoms of allergic rhinitis. Day JH, et al. **Ann Allergy Asthma Immunol** 1997 Aug;79(2):163–72

Brompheniramine, terfenadine, and placebo in allergic rhinitis [see comments] Klein GL, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):365–70. Comment in: Ann Allergy Asthma Immunol 1996 Nov;77(5):337–40.

Preseasonal, once daily triamcinolone acetonide nasal aerosol for seasonal allergic rhinitis. Munk ZM, et al. **Ann Allergy Asthma Immunol** 1997 Mar;78(3):325–31

Efficacy and safety of triamcinolone acetonide aqueous nasal spray in patients with seasonal allergic rhinitis [see comments] Munk ZM, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):277–81. Comment in: Ann Allergy Asthma Immunol 1996 Oct;77(4):255–9.

Changing strategies in the treatment of allergic rhinitis [editorial; comment] Nathan RA. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):255–9 (55 ref.) . Comment on: Ann Allergy Asthma Immunol 1996 Oct;77(4):277–81.

Efficacy of intranasally applied dimethindene maleate solution as spray in adult volunteers with symptoms of seasonal allergic rhinitis in the Vienna challenge chamber. Kyrein HJ, et al. **Arzneimittelforschung** 1996 Aug; 46(8):794–9

Evaluation of the drug monitoring programme of azelastine hydrochloride nasal spray in the treatment of allergic rhinitis in children under 13 years of age. Wober W, et al. **Arzneimittelforschung** 1997 Jul;47(7):841–4

Corticosteroid injection for hayfever [letter; comment] Healey D. **Aust Fam Physician** 1996 Feb;25(2):253. Comment on: Aust Fam Physician 1995 Oct;24(10):1899, 1902.

Hay fever drug to be banned by the FDA [news] Josefson D. **BMJ** 1997 Jan 25;314(7076):248

Hay fever drug to become prescription only [news] Wise J. **BMJ** 1997 May 3;314(7090):1299

First-line treatment of hay fever: what is the best option? [editorial; comment] Freedman SO. **Can Med Assoc J** 1997 Apr 15;156(8):1141–3. Comment on: Can Med Assoc J 1997 Apr 15;156(8):1123–31.

First-line treatment of seasonal (ragweed) rhinoconjunctivitis. A randomized management trial comparing a nasal steroid spray and a nonsedating antihistamine [see comments] Juniper EF, et al. **Can Med Assoc J** 1997 Apr 15;156(8):1123–31. Comment in: Can Med Assoc J 1997 Apr 15;156(8):1141–3.

The rationale for use of topical corticosteroids in allergic rhinitis. Mygind N, et al. **Clin Exp Allergy** 1996 May;26 Suppl 3:2–10 (42 ref.)

A comparison of the effects of an alpha-agonist, an anti-muscarinic agent and placebo on intranasal histamine challenge in allergic rhinitis. Birchall MA, et al. **Clin Otolaryngol** 1996 Jun;21(3):212–7

Special considerations in the treatment of seasonal allergic rhinitis in adolescents: the role of antihistamine therapy. Kemp JP. **Clin Pediatr (Phila)** 1996 Aug;35(8):383–9 (31 ref.)

Once-daily cetirizine effective in the treatment of seasonal allergic rhinitis in children aged 6 to 11 years: a randomized, double-blind, placebo-controlled study. Pearlman DS, et al. **Clin Pediatr (Phila)** 1997 Apr; 36(4):209–15

The effect of fluticasone propionate aqueous nasal spray on eosinophils and cytokines in nasal secretions of patients with ragweed allergic rhinitis. Alvarado-Valdés CA, et al. **Clin Ther** 1997 Mar–Apr;19(2):273–81

Placebo-controlled, double-blind study of the efficacy and safety of triamcinolone acetonide aerosol nasal inhaler in pediatric patients with seasonal allergic rhinitis. Banov CH, et al. **Clin Ther** 1996 Mar–Apr;18(2):265–72

Clinical review of once-daily beclomethasone dipropionate for seasonal allergic rhinitis. Chervinsky P. **Clin Ther** 1996 Sep–Oct;18(5):790–6; discussion 789 (22 ref.)

Once-daily mometasone furoate nasal spray: efficacy and safety of a new intranasal glucocorticoid for allergic rhinitis. Davies RJ, et al. **Clin Ther** 1997 Jan–Feb; 19(1):27–38; discussion 2–3 (24 ref.)

The efficacy of fluticasone propionate aqueous nasal spray for allergic rhinitis and its relationship to topical effects. Howland WC 3rd, et al. **Clin Ther** 1996 Nov–Dec; 18(6):1106–17

Sedative effects of antihistamines: safety, performance, learning, and quality of life. Nolen TM. **Clin Ther** 1997 Jan–Feb;19(1):39–55; discussion 2–3 (63 ref.)

Comparison of the efficacy of ebastine 10mg and 20mg once daily with that of cetirizine 10mg once daily in adults with seasonal allergic rhinitis. A multicentre double-blind study. Cohen B, et al. **Drugs** 1996;52 Suppl 1:26–9

Triamcinolone acetonide. A review of its pharmacological properties and therapeutic efficacy in the management of allergic rhinitis. Jeal W, et al. **Drugs** 1997 Feb;53(2):257–80 (73 ref.)

Clinical efficacy of ebastine in the treatment and prevention of seasonal allergic rhinitis. Peláez A. **Drugs** 1996;52 Suppl 1:35–8

Clinical studies of the efficacy and tolerability of ebastine 10 or 20 mg once daily in the treatment of seasonal allergic rhinitis in the US. Storms WW. **Drugs** 1996;52 Suppl 1:20–5

A multicenter clinical study of the efficacy and tolerability of azelastine nasal spray in the treatment of seasonal allergic rhinitis: a comparison with oral cetirizine. Charpin D, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):455–8

A placebo controlled study comparing the efficacy of intranasal azelastine and beclomethasone in the treatment of seasonal allergic rhinitis. Newson-Smith G, et al. **Eur Arch Otorhinolaryngol** 1997;254(5):236–41

Seasonal rhinitis and azelastine: long- or short-term treatment? Ciprandi G, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):301–7

Nasal nitric oxide is increased in patients with asthma and allergic rhinitis and may be modulated by nasal glucocorticoids. Kharitonov SA, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):58–64

Stem cell factor in nasal polyposis and allergic rhinitis: increased expression by structural cells is suppressed by in vivo topical corticosteroids. Kim YK, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):389–99

Appraisal of the validity of histamine-induced wheal and flare to predict the clinical efficacy of antihistamines. Monroe EW, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):S798–806 (65 ref.)

The effect of intravenous administration of a chimeric anti-IgE antibody on serum IgE levels in atopic subjects: efficacy, safety, and pharmacokinetics. Corne J, et al. **J Clin Invest** 1997 Mar 1;99(5):879–87

Treatment of hay fever. Pabian C, et al. **J Fam Pract** 1997 Sep;45(3):201

Azelastine nasal spray for allergic rhinitis. **Med Lett Drugs Ther** 1997 May 9;39(1000):45–7

Azelastine reduces histamine-induced swelling of nasal mucosa. Spaeth J, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May–Jun; 58(3):157–63

Intranasal levocabastine provides fast and effective protection from nasal allergen challenge. Bachert C, et al. **Rhinology** 1996 Sep;34(3):140–3

Tachykinin and kinin receptor antagonists: therapeutic perspectives in allergic airway disease. Bertrand C, et al. **Trends Pharmacol Sci** 1996 Jul;17(7):255–9 (58 ref.)

[Treatment of hay fever] Mygind N, et al. **Ugeskr Laeger** 1997 Sep 1;159(36):5358–61 **(Dan)**

[The effect of initial treatment by FP aqueous nasal spray in patients with Japanese cedar pollinosis] Nakabayashi S, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Sep; 99(9):1162–71 (Eng. Abstr.) **(Jpn)**

[Fluticasone propionate in treatment of seasonal allergic rhinitis—open multicenter study] Kokot M, et al. **Pol Merkuriusz Lek** 1996 Jul;1(1):38–40 (Eng. Abstr.) **(Pol)**

[Fluticasone propionate—a new name common in asthma and rhinitis] Ulmeanu R, et al. **Pneumoftiziologia** 1997 Jan–Mar; 46(1):63–4 (8 ref.) **(Rum)**

ECONOMICS

A comparison of costs and efficacy of intranasal fluticasone propionate and terfenadine tablets for seasonal allergic rhinitis. Kozma CM, et al. **Clin Ther** 1996 Mar–Apr; 18(2):334–46; discussion 302

The prevalence and medical and economic impact of allergic rhinitis in the United States. Meltzer EO. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 2):S805–28 (65 ref.)

EPIDEMIOLOGY

Connection between NO(x) and SO(x) collected from the Japanese cedar tree and Pollinosis. Ito H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:79–84

Sensitization to Olea europaea: geographical differences and discrepancies. Casanovas M, et al. **Allergol Immunopathol (Madr)** 1997 Jul–Aug;25(4):159–66

The behaviour of non-specific nasal provocation tests in subjects with allergic rhinitis and not, in and out of crisis. A longitudinal study. Filiaci F, et al. **Allergol Immunopathol (Madr)** 1996 Jul–Aug;24(4):158–62

Pollinosis due to Australian pine (Casuarina): an aerobiologic and clinical study in southern Spain. García JJ, et al. **Allergy** 1997 Jan;52(1):11–7

Ozone increases group 5 allergen content of Lolium perenne. Masuch GI, et al. **Allergy** 1997 Aug;52(8):874–5

Relevance of birth month in respiratory allergy. Singh BP, et al. **Allergy** 1997 Feb;52(2):232–3

Investigation into the increase in hay fever and eczema at age 16 observed between the 1958 and 1970 British birth cohorts. Butland BK, et al. **BMJ** 1997 Sep 20; 315(7110):717–21

One airway, one disease. Grossman J. **Chest** 1997 Feb;111(2 Suppl):11S–16S (55 ref.)

Pollen allergy in South Africa. Potter PC, et al. **Clin Exp Allergy** 1996 Dec;26(12):1347–54 (28 ref.)

Hay fever, asthma and number of older siblings—a twin study. Räsänen M, et al. **Clin Exp Allergy** 1997 May; 27(5):515–8

Prevalence of asthma, allergic rhinitis and dermatitis in primary school children in Uasin Gishu district, Kenya. Esamai F, et al. **East Afr Med J** 1996 Jul;73(7):474–8

Increase of asthma and allergic rhinitis prevalence in young Italian men. Ciprandi G, et al. **Int Arch Allergy Immunol** 1996 Nov;111(3):278–83

IgE levels, atopy markers and hay fever in relation to age, sex and smoking status in a normal adult Swiss population. SAPALDIA (Swiss Study on Air Pollution and Lung Diseases in Adults) Team. Wüthrich B, et al. **Int Arch Allergy Immunol** 1996 Dec;111(4):396–402

Asthma, hay fever and eczema in Irish teenagers (ISAAC protocol). Manning PJ, et al. **Ir Med J** 1997 Apr–May; 90(3):110–2

Eczema and hay fever in schoolchildren. Taylor MR, et al. **Ir Med J** 1996 Nov–Dec;89(6):229–30

The prevalence and medical and economic impact of allergic rhinitis in the United States. Meltzer EO. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 2):S805–28 (65 ref.)

Epidemiology of allergic rhinitis. Mygind N, et al. **Pediatr Allergy Immunol** 1996;7(9 Suppl):57–62 (55 ref.)

The epidemiology of atopic diseases in Germany: an east–west comparison. Trepka MJ, et al. **Rev Environ Health** 1996 Jul–Sep;11(3):119–31 (49 ref.)

Clinical manifestations of Japanese cedar pollinosis: an epidemiological study. Nakagawa H, et al. **Rhinology** 1996 Dec;34(4):201–5

The IgA–deficient blood donor: something in the air? Munks R. **Transfus Med** 1996 Sep;6(3):285–7

ETIOLOGY

Antigenic analysis of Cryptomeria japonica and Chamaecyparis obtusa using anti–Cry j 1 monoclonal antibodies. Suzuki M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:85–9

Changed allergy pattern in outpatients. Ciprandi G, et al. **Allergy** 1997 Mar;52(3):351–2

Selective recruitment of eosinophils by substance P after repeated allergen exposure in allergic rhinitis. Fajac I, et al. **Allergy** 1995 Dec;50(12):970–5

Cupressaceae pollinosis in the Madrid area. Caballero T, et al. **Clin Exp Allergy** 1996 Feb;26(2):197–201

The association of family size with atopy and atopic disease. Jarvis D, et al. **Clin Exp Allergy** 1997 Mar;27(3):240–5

Buckwheat flour hypersensitivity: an occupational asthma in a noodle maker. Park HS, et al. **Clin Exp Allergy** 1996 Apr;26(4):423–7

Use of an anti–IgE humanized monoclonal antibody in ragweed–induced allergic rhinitis. Casale TB, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):110–21

Otitis media and eustachian tube dysfunction: connection to allergic rhinitis. Fireman P. **J Allergy Clin Immunol** 1997 Feb;99(2):S787–97 (95 ref.)

Overview of comorbid associations of allergic rhinitis. Spector SL. **J Allergy Clin Immunol** 1997 Feb; 99(2):S773–80 (95 ref.)

Short–term immunotherapy: a prospective, randomized, double–blind, placebo–controlled multicenter study of molecular standardized grass and rye allergens in patients with grass pollen–induced allergic rhinitis. Zenner HP, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):23–9

Allergy and asthma in central Australia [letter] Weiner JM, et al. **Med J Aust** 1996 Nov 4;165(9):526

Allergic rhinosinusitis in the pediatric population. Cook PR, et al. **Otolaryngol Clin North Am** 1996 Feb;29(1):39–56 (67 ref.)

[Identify the allergic rhinitis in your patient] Nuutinen J. **Duodecim** 1995;111(16):1609–15 (20 ref.) **(Fin)**

[Clinical aspects of environmental illnesses of the nose and paranasal sinuses—science and clinical practice] Bachert C. **Eur Arch Otorhinolaryngol Suppl** 1996;1:73–153 (651 ref.) **(Ger)**

[Nasal hyperreactivity. Allergic rhinitis and its differential diagnoses. Consensus report of pathophysiology, classification, diagnosis and therapy (see comments)] **HNO** 1997 Apr;45(4):189–201 (57 ref.). Comment in: HNO 1997 Apr;45(4):187–8. **(Ger)**

[Nasal hyperreactivity (comment)] Heppt W. **HNO** 1997 Apr; 45(4):187–8 (3 ref.). Comment on: HNO 1997 Apr;45(4):189–201. **(Ger)**

[Olive pollinosis in Japan] Miyahara S. **Arerugi** 1995 Nov; 44(11):1305–10 (Eng. Abstr.) **(Jpn)**

[Assessment of nasal mucociliary transport time in seasonal allergic rhinitis] Hellín Meseguer D, et al. **An Otorrinolaringol Ibero Am** 1996;23(5):479–89 (Eng. Abstr.) **(Spa)**

HISTORY

Historical background of aeropalynology in the Canary Islands. García Cobaleda I, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec;24(6):269–84

Asthma among the famous. Charles H. Blackley (1820–1900) British physician. Cohen SG. **Allergy Asthma Proc** 1997 May–Jun;18(3):196–8

Asthma among the famous. Morrill Wyman (1812–1903), American physician. Cohen SG. **Allergy Asthma Proc** 1997 Jul–Aug;18(4):259–62

Asthma among the famous. John Bostock (1773–1846), British physician and medicinal chemist. Cohen SG. **Allergy Asthma Proc** 1996 Sep–Oct;17(5):304–5

IMMUNOLOGY

Cross–reactivity to olive tree pollen and orchard grass pollen in patients with pollinosis. Miyahara S, et al. **Acta Med Okayama** 1997 Jun;51(3):167–71

Immunoglobulin as an eosinophil degranulation factor: change in immunoglobulin level in nasal lavage fluid after antigen challenge. Terada N, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):863–7

Monitoring of specific IgG4 antibodies in respiratory allergy due to the pollen of Parietaria judaica. Evidence for a protective role. Panzani RC, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec;24(6):263–8

Purine derivatives in the study of allergic inflammation in respiratory diseases. Crimi N, et al. **Allergy** 1997;52(34 Suppl):48–54 (70 ref.)

Measurement of serum levels of eosinophil cationic protein to monitor patients with seasonal respiratory allergy induced by Parietaria pollen (treated and untreated with specific immunotherapy). D'Amato G, et al. **Allergy** 1996 Apr;51(4):245–50

Allergy to foods in patients monosensitized to Artemisia pollen. Garcia Ortiz JC, et al. **Allergy** 1996 Dec; 51(12):927–31

Cross–reactivity of Olea europaea with other Oleaceae species in allergic rhinitis and bronchial asthma. Pajarón MJ, et al. **Allergy** 1997 Aug;52(8):829–35

Local nasal immunotherapy: experimental evidences and general considerations. Passalacqua G, et al. **Allergy** 1997; 52(33 Suppl):10–6 (32 ref.)

Th1/Th2 response profiles to the major allergens Cry j 1 and Cry j 2 of Japanese cedar pollen. Sugimura K, et al. **Allergy** 1996 Oct;51(10):732–40

IL–13 mRNA and immunoreactivity in allergen–induced rhinitis: comparison with IL–4 expression and modulation by topical glucocorticoid therapy. Ghaffar O, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):17–24

Yearly and seasonal changes of specific IgE to japanese cedar pollen in a young population. Sato K, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):57–61

Increase in expression of IL–4 and IL–5 mRNA in the nasal mucosa of patients with perennial allergic rhinitis during natural allergen exposure. Lee CH, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):215–9

Dynamics of soluble adhesion molecule levels in patients with pollinosis. Kato M, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec; 122(12):1398–400

The role of oak pollen in hay fever consultations in general practice and the factors influencing patients' decisions to consult. Ross AM, et al. **Br J Gen Pract** 1996 Aug; 46(409):451–5

The role of leukotrienes in asthma and allergic rhinitis. Busse WW. **Clin Exp Allergy** 1996 Aug;26(8):868–79 (75 ref.)

Interleukin–8 secretion in patients with allergic rhinitis after an allergen challenge: interleukin–8 is not the main chemotactic factor present in nasal lavages. Gosset P, et al. **Clin Exp Allergy** 1997 Apr;27(4):379–88

Some alterations of the leucocyte beta2–adrenoceptor/cAMP–system in patients with seasonal allergic rhinoconjunctivitis are related to disease activity. Haen E, et al. **Clin Exp Allergy** 1997 Jul; 27(7):787–95

Measurement of IgE antibodies against purified grass pollen allergens (Lol p 1, 2, 3 and 5) during immunotherapy. Van Ree R, et al. **Clin Exp Allergy** 1997 Jan;27(1):68–74

IL–13 production by allergen–stimulated T cells is increased in allergic disease and associated with IL–5 but not IFN–gamma expression. Till S, et al. **Immunology** 1997 May;91(1):53–7

Grass immunotherapy induces inhibition of allergen–specific human peripheral blood mononuclear cell proliferation. Baskar S, et al. **Int Arch Allergy Immunol** 1997 Feb; 112(2):184–90

Local IgE production in nasal allergy. Durham SR, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):128–30

Role of IL–13 in CD4 T cell–dependent IgE production in atopy. Levy F, et al. **Int Arch Allergy Immunol** 1997 Jan; 112(1):49–58

Allergen–driven limiting dilution analysis of human IL–4 and IFN–gamma production in allergic rhinitis and clinically tolerant individuals. Li Y, et al. **Int Immunol** 1996 Jun; 8(6):897–904

Pathogenesis of allergic rhinitis. Baraniuk JN. **J Allergy Clin Immunol** 1997 Feb;99(2):S763–72 (69 ref.)

Recombinant Bet v 1, the major birch pollen allergen, induces hypersensitivity reactions equal to those induced by natural Bet v 1 in the airways of patients allergic to tree pollen. Godnic–Cvar J, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):354–9

Priming of eosinophil adhesion in patients with birch pollen allergy during pollen season: effect of immunotherapy. Håkansson L, et al. **J Allergy Clin Immunol** 1997 Apr; 99(4):551–62

Increases in IL–12 messenger RNA+ cells accompany inhibition of allergen–induced late skin responses after successful grass pollen immunotherapy [see comments] Hamid QA, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):254–60. Comment in: J Allergy Clin Immunol 1997 Feb;99(2):161–4.

Is immigration a prognostic factor for oral allergy syndrome in patients with birch pollen hypersensitivity? [letter; comment] Kalyoncu AF. **J Allergy Clin Immunol** 1996 Dec; 98(6 Pt 1):1135. Comment on: J Allergy Clin Immunol 1996 Feb;97(2):611–6.

Enhanced expression of high–affinity IgE receptor (Fc epsilon RI) alpha chain in human allergen–induced rhinitis with co–localization to mast cells, macrophages, eosinophils, and dendritic cells. Rajakulasingam K, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):78–86

Cell surface characterization of T lymphocytes and allergen–specific T cell clones: correlation of CD26 expression with T(H1) subsets. Willheim M, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):348–55

Nasal mast cells in perennial allergic rhinitics exhibit increased expression of the Fc epsilonRI, CD40L, IL–4, and IL–13, and can induce IgE synthesis in B cells [see comments] Pawankar R, et al. **J Clin Invest** 1997 Apr 1; 99(7):1492–9. Comment in: J Clin Invest 1997 Apr 1;99(7):1465–6.

Skin prick tests with standardized extracts of inhalant allergens in 7099 adult patients with asthma or rhinitis: cross–sensitizations and relationships to age, sex, month of birth and year of testing. Eriksson NE, et al. **J Investig Allergol Clin Immunol** 1996 Jan–Feb;6(1):36–46

Antigen–specific sulphidoleukotriene production and histamine release in pollinic patients. Ferrer M, et al. **J Investig Allergol Clin Immunol** 1996 Sep–Oct;6(5):271–7

Non–specific nasal provocation in children with chronic allergic rhinitis. Giannico R, et al. **J Investig Allergol Clin Immunol** 1996 Mar–Apr;6(2):110–6

A comparative immunological study of vasomotor rhinitis and pollinosis. Zieliński A. **J Investig Allergol Clin Immunol** 1996 Jul–Aug;6(4):261–5

Determination of sensitivity of inhalant allergens in patients with allergic rhinitis in West Athens. Kontothanasi G, et al. **Rhinology** 1995 Dec;33(4):234–5

Allergic rhinitis, olfactory disorders and secretory IgA. Paparo BS, et al. **Riv Eur Sci Med Farmacol** 1996 Jul–Aug; 18(4):157–61

Immunotherapy affects the seasonal increase in specific IgE and interleukin–4 in serum of patients with seasonal allergic rhinitis. Ohashi Y, et al. **Scand J Immunol** 1997 Jul; 46(1):67–77

Serum level of soluble interleukin–2 receptor in patients with seasonal allergic rhinitis. Ohashi Y, et al. **Scand J Immunol** 1997 Mar;45(3):315–21

Japanese cedar pollinosis and HLA–DP5. Hori T, et al. **Tissue Antigens** 1996 Jun;47(6):485–91

[Significance of T4 cells in pollinosis and colitis] Werfel T, et al. **Hautarzt** 1997 Jan;48(1):55 **(Ger)**

[Lawn grass (Poaceae) causing hayfever in the South Plain of Hungary. Results of aeropalinologic and allergologic studies 1989–95] Kadocsa E, et al. **Orv Hetil** 1997 Apr 6;138(14):851–4 (Eng. Abstr.) **(Hun)**

[The period of termination of nasal symptoms in Japanese cedar pollinosis patients and factors participating in the termination of symptoms] Ito Y, et al. **Arerugi** 1996 Dec; 45(12):1277–84 (Eng. Abstr.) **(Jpn)**

[A cross–sectional study of factors associated with production of Japanese cedar pollen specific IgE antibody and total IgE antibody, and symptoms of Japanese cedar pollinosis in primary school children] Ozasa K, et al. **Arerugi** 1995 Dec;44(12):1361–8 (Eng. Abstr.) **(Jpn)**

[Analysis of T cell epitopes on birch pollen allergen] Mizumoto K, et al. **Hokkaido Igaku Zasshi** 1997 Jan; 72(1):59–67 (Eng. Abstr.) **(Jpn)**

[Molecular immunology of Japanese cedar pollen allergens: analysis of T cell epitopes] Hashiguchi S, et al. **Nippon Rinsho** 1996 Aug;54(8):2233–42 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Seasonal changes of laboratory data in patients with Japanese cedar pollinosis] Fujiwara H, et al. **Rinsho Byori** 1997 May; 45(5):487–92 (Eng. Abstr.) **(Jpn)**

[The effect of various cholinergic agents on spontaneous production of immunoglobulin E by peripheral blood mononuclear cells in patients with pollenosis] Ado AD, et al. **Biull Eksp Biol Med** 1994 May;117(5):508–9 **(Rus)**

METABOLISM

Purine derivatives in the study of allergic inflammation in respiratory diseases. Crimi N, et al. **Allergy** 1997;52(34 Suppl):48–54 (70 ref.)

Intranasal fluticasone propionate inhibits recovery of chemokines and other cytokines in nasal secretions in allergen–induced rhinitis. Weido AJ, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):407–15

Nasal nitric oxide is increased in allergic rhinitis [see comments] Arnal JF, et al. **Clin Exp Allergy** 1997 Apr; 27(4):358–62. Comment in: Clin Exp Allergy 1997 Apr;27(4):347–50.

Oxygen radical production by blood eosinophils is reduced during birch pollen season in allergic patients. Woschnagg

C, et al. **Clin Exp Allergy** 1996 Sep;26(9):1064–72

Defective inhibition of sodium on basophil histamine release in patients with allergic rhinitis and bronchial asthma. Tedeschi A, et al. **Eur Respir J** 1996 Oct;9(10):2070–6

Nasal nitric oxide is increased in patients with asthma and allergic rhinitis and may be modulated by nasal glucocorticoids. Kharitonov SA, et al.
J Allergy Clin Immunol 1997 Jan;99(1 Pt 1):58–64

Allergen binding to specific IgE in the nasal mucosa of allergic patients. KleinJan A, et al.
J Allergy Clin Immunol 1997 Apr;99(4):515–21

Involvement of thromboxane A2 and histamine in experimental allergic rhinitis of guinea pigs. Yamasaki M, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1471–9

PATHOLOGY

Fixation with Carnoy's fluid reduces the number of chymase-positive mast cells: not all chymase-positive mast cells are also positive for tryptase. KleinJan A, et al.
Allergy 1996 Sep;51(9):614–20

Antigen presenting cells in the nasal mucosa of patients with allergic rhinitis during allergen provocation. Godthelp T, et al. **Clin Exp Allergy** 1996 Jun;26(6):677–88

Eosinophils, mast cells, and basophils in induced sputum from patients with seasonal allergic rhinitis and perennial asthma: relationship to methacholine responsiveness. Foresi A, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):58–64

Olfactory dysfunction in allergic rhinitis is related to nasal eosinophilic inflammation. Klimek L, et al.
J Allergy Clin Immunol 1997 Aug;100(2):158–64

Lower airways remodeling in nonasthmatic subjects with allergic rhinitis. Chakir J, et al. **Lab Invest** 1996 Nov; 75(5):735–44

Quantitative cytology of nasal secretions and scrapings in Japanese cedar pollinosis patients. Takeuchi K, et al.
Laryngoscope 1996 Nov;106(11):1419–23

PHYSIOPATHOLOGY

Histopathological comparison between tonsil and adenoid responses to allergy. Endo LH, et al.
Acta Otolaryngol Suppl (Stockh) 1996;523:17–9

Serum levels of eosinophil cationic protein and eosinophil protein x in pollen atopic patients with stable asthma and its relation with bronchial hyperresponsiveness. Chivato T, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec; 24(6):243–7

Pathophysiology and therapy for allergic and nonallergic rhinitis: an updated review. Levenson T, et al.
Allergy Asthma Proc 1997 Jul–Aug;18(4):213–20 (54 ref.)

Rhinovirus infection preferentially increases lower airway responsiveness in allergic subjects. Gern JE, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):1872–6

Assessment of the allergic reaction in seasonal rhinitis: acoustic rhinometry is a sensitive and objective method. Nielsen LP, et al. **Clin Exp Allergy** 1996 Nov; 26(11):1268–75

Pathogenesis of allergic rhinitis. Baraniuk JN.
J Allergy Clin Immunol 1997 Feb;99(2):S763–72 (69 ref.)

A comparison of cytokine release from epithelial cells cultured from nasal biopsy specimens of atopic patients with and without rhinitis and nonatopic subjects without rhinitis. Calderón MA, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):65–76

Treatment with hot, humid air reduces the nasal response to allergen challenge. Desrosiers M, et al.
J Allergy Clin Immunol 1997 Jan;99(1 Pt 1):77–86

Olfactory dysfunction in allergic rhinitis is related to nasal eosinophilic inflammation. Klimek L, et al.
J Allergy Clin Immunol 1997 Aug;100(2):158–64

Olfactory threshold after nasal allergen challenge. Hinriksdóttir I, et al.
ORL J Otorhinolaryngol Relat Spec 1997 Jan–Feb; 59(1):36–8

Short stature in children with respiratory allergy. Sant'Anna CA, et al. **Pediatr Allergy Immunol** 1996 Nov;7(4):187–92

[The period of termination of nasal symptoms in Japanese cedar pollinosis patients and factors participating in the termination of symptoms] Ito Y, et al. **Arerugi** 1996 Dec; 45(12):1277–84 (Eng. Abstr.) **(Jpn)**

[Reration between symptom and counts of scattering Japanese cedar pollen--examination of clinical observation and repeated provocation] Yoshida H, et al. **Arerugi** 1996 Jan;45(1):49–61 (Eng. Abstr.) **(Jpn)**

[Nonspecific bronchial hyperreactivity in patients with seasonal bronchial asthma observed through two consecutive years] Kroczyńska-Bednarek J, et al.
Pol Arch Med Wewn 1997 Mar;97(3):216–23 (Eng. Abstr.) **(Pol)**

PREVENTION & CONTROL

Preseasonal specific immunotherapy with modified Phleum pratense allergenic extracts: tolerability and effects. Ricca V, et al. **Allergol Immunopathol (Madr)** 1997 Jul–Aug; 25(4):167–75

Overview of allergic mechanisms. Ebastine has more than an antihistamine effect. Campbell A, et al. **Drugs** 1996;52 Suppl 1:15–9

A placebo- and active-controlled randomized trial of prophylactic treatment of seasonal allergic rhinitis with mometasone furoate aqueous nasal spray. Graft D, et al.
J Allergy Clin Immunol 1996 Oct;98(4):724–31

[Results of immunotherapy with Allergovit preparation of the Allergopharma Company in patients with hypersensitivity to pollen] Hofman T, et al.
Pol Merkuriusz Lek 1996 Jul;1(1):41–2 (Eng. Abstr.) **(Pol)**

PSYCHOLOGY

Referral pattern to the allergist for hay fever in a health-care system with open access to specialists. Francillon C, et al.
Allergy 1995 Dec;50(12):959–63

RADIOGRAPHY

Ragweed allergic rhinitis and the paranasal sinuses. A computed tomographic study. Naclerio RM, et al.
Arch Otolaryngol Head Neck Surg 1997 Feb;123(2):193–6

Computed tomographic study of the paranasal sinuses in allergic rhinitis. Leipzig JR, et al.
J Allergy Clin Immunol 1996 Dec;98(6 Pt 1):1130–1

THERAPY

Study on changes in the level of serum IL-4 and soluble CD 23(s-CD23) with immunotherapy in nasal allergy patients. Ito H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:98–104

The efficacy of E.P.D., a new immunotherapy, in the treatment of allergic diseases in children. Caramia G, et al. **Allerg Immunol (Paris)** 1996 Nov;28(9):308–10

A double-blind, placebo-controlled study of preventive immunotherapy with E.P.D., in the treatment of seasonal allergic disease. Di Stanislao C, et al.
Allerg Immunol (Paris) 1997 Feb;29(2):39–42

Rush sublingual immunotherapy in Parietaria allergic patients [published erratum appears in Allergol Immunopathol (Madr) 1996 Nov-Dec;24(6):262] D'Ambrosio FP, et al.
Allergol Immunopathol (Madr) 1996 Jul–Aug;24(4):146–51

The early effect of specific immunotherapy on lymphocyte response to PHA and allergens in atopic patients with allergic rhinitis. Kinikli G, et al.
Allergol Immunopathol (Madr) 1996 Mar–Apr;24(2):65–9

Preseasonal specific immunotherapy with modified phleum pratense allergenic extracts: tolerability and effects. Vittorio R, et al. **Allergol Immunopathol (Madr)** 1996 Nov–Dec;24(6):255–62

Preseasonal intranasal immunotherapy in birch-alder allergic rhinitis. A double-blind study. Cirla AM, et al. **Allergy** 1996 May;51(5):299–305

Nasal immunotherapy in pollen-sensitive children. Cserháti E, et al. **Allergy** 1997;52(33 Suppl):40–4

Mediator release is altered in immunotherapy-treated patients: a 4-year study. Dokic D, et al. **Allergy** 1996 Nov; 51(11):796–803

Local nasal immunotherapy: experimental evidences and general considerations. Passalacqua G, et al. **Allergy** 1997; 52(33 Suppl):10–6 (32 ref.)

Monitoring methods for local nasal immunotherapy. Passali D, et al. **Allergy** 1997;52(33 Suppl):22–5 (13 ref.)

Specific nasal provocation test with powder allergen. Salzano FA. **Allergy** 1997;52(33 Suppl):32–5

Pathophysiology and therapy for allergic and nonallergic rhinitis: an updated review. Levenson T, et al.
Allergy Asthma Proc 1997 Jul–Aug;18(4):213–20 (54 ref.)

Subjective assessment of allergy relief following group hypnosis and self-hypnosis: a preliminary study. Madrid A, et al. **Am J Clin Hypn** 1995 Oct;38(2):80–6

How many teenagers think they have allergic rhinoconjunctivitis and what they do about it. Borres MP, et al. **Ann Allergy Asthma Immunol** 1997 Jan;78(1):29–34

Nasal immunotherapy in weed-induced allergic rhinitis. Gaglani B, et al. **Ann Allergy Asthma Immunol** 1997 Sep; 79(3):259–65

Treatment of allergic rhinitis. Suonpaa J. **Ann Med** 1996 Feb; 28(1):17–22 (49 ref.)

Clinical effects of immunotherapy on Japanese cedar pollinosis in the season of cedar and cypress pollination. Ito Y, et al. **Auris Nasus Larynx** 1997 Apr;24(2):163–70

The effect of immunotherapy on the serum levels of eosinophil cationic protein in seasonal allergic rhinitis. Ohashi Y, et al. **Clin Otolaryngol** 1997 Apr;22(2):100–5

Quality of life analysis of patients undergoing immunotherapy for allergic rhinitis. Fell WR, et al. **Ear Nose Throat J** 1997 Aug;76(8):528–32, 534–6

Grass immunotherapy induces inhibition of allergen-specific human peripheral blood mononuclear cell proliferation. Baskar S, et al. **Int Arch Allergy Immunol** 1997 Feb; 112(2):184–90

Use of an anti-IgE humanized monoclonal antibody in ragweed-induced allergic rhinitis. Casale TB, et al.
J Allergy Clin Immunol 1997 Jul;100(1):110–21

Treatment with hot, humid air reduces the nasal response to allergen challenge. Desrosiers M, et al.
J Allergy Clin Immunol 1997 Jan;99(1 Pt 1):77–86

Increases in IL-12 messenger RNA+ cells accompany inhibition of allergen-induced late skin responses after successful grass pollen immunotherapy [see comments] Hamid QA, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):254–60. Comment in: J Allergy Clin Immunol 1997 Feb;99(2):161–4.

Interpretation of rhinoconjunctivitis quality of life questionnaire data. Juniper EF, et al.
J Allergy Clin Immunol 1996 Oct;98(4):843–5

A double-blind study of the discontinuation of ragweed immunotherapy. Naclerio RM, et al.
J Allergy Clin Immunol 1997 Sep;100(3):293–300

Short-term immunotherapy: a prospective, randomized, double-blind, placebo-controlled multicenter study of molecular standardized grass and rye allergens in patients with grass pollen-induced allergic rhinitis. Zenner HP, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):23–9

Effects of enzyme-potentiated desensitization in the treatment of pollinosis: a double-blind placebo-controlled trial. Astarita C, et al. **J Investig Allergol Clin Immunol** 1996 Jul–Aug;6(4):248–55

Local nasal immunotherapy with a powder extract for grass pollen induced rhinitis in pediatric ages: a controlled study. Bardare M, et al. **J Investig Allergol Clin Immunol** 1996 Nov–Dec;6(6):359–63

Effect of allergen specific immunotherapy (IT) on natural killer cell activity (NK), IgE, IFN-gamma levels and clinical response in patients with allergic rhinitis and asthma. Sin B, et al. **J Investig Allergol Clin Immunol** 1996 Nov–Dec;6(6):341–7

Specific immunotherapy in pollinosis: II. Forecasting changes in certain cytoimmunological indicators after four years of immunotherapy in pollinosis. Zieliński AE.
J Investig Allergol Clin Immunol 1996 Nov–Dec; 6(6):364–70

Specific immunotherapy in pollinosis: I. Valuation of certain cytoimmunological indicators over the course of four years of immunotherapy in pollinosis. Zieliński AE.
J Investig Allergol Clin Immunol 1996 Sep–Oct;6(5):307–14

Effect of immunotherapy on seasonal changes in serum-specific IgE and IgG4 in patients with pollen allergic rhinitis. Ohashi Y, et al. **Laryngoscope** 1997 Sep; 107(9):1270–5

[Bioresonance therapy in treatment of allergies. Every person has his own vibration pattern (interview by Beatrice Wagner)] Süss S. **Fortschr Med** 1997 Apr 20;115(11):16, 18 **(Ger)**

[Evaluation of efficacy for Japanese cedar pollen-specific immunotherapy by lymphocyte proliferation test] Imai T, et al. **Arerugi** 1996 Nov;45(11):1172–80 (Eng. Abstr.) **(Jpn)**

[Effect of immunotherapy on selected immunologic indices in children with pollinosis] Boznański A, et al.
Pediatr Pol 1996 Jan;71(1):15–8 (Eng. Abstr.) **(Pol)**

[Evaluation of soluble components of receptors with weak affinity for IgE (sCD23) in children with pollinosis given specific immunotherapy] Boznański A, et al.
Pneumonol Alergol Pol 1996;64(7–8):386–91 (Eng. Abstr.) **(Pol)**

[Evaluation of the efficacy of immunotherapy with allergovit and catalet in patients with hay fever--multidrug evaluations] Hofman T, et al. **Pneumonol Alergol Pol** 1997; 65(1–2):65–70 (Eng. Abstr.) **(Pol)**

VIROLOGY

Rhinovirus infection preferentially increases lower airway responsiveness in allergic subjects. Gern JE, et al.
Am J Respir Crit Care Med 1997 Jun;155(6):1872–6

HAZARD MANAGEMENT see **SAFETY MANAGEMENT**

HAZARDOUS CHEMICALS see **HAZARDOUS SUBSTANCES**

HAZARDOUS MATERIALS see **HAZARDOUS SUBSTANCES**

HAZARDOUS SUBSTANCES

see related
HAZARDOUS WASTE

Environmental hazards in the homes of older people. Carter SE, et al. **Age Ageing** 1997 May;26(3):195–202

A lightweight ambient air-cooling unit for use in hazardous environments. Chen YT, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):10–4

Citizen participation and empowerment: the case of local environmental hazards. Rich RC, et al.
Am J Community Psychol 1995 Oct;23(5):657–76

An overview of the risk assessment of hazardous materials and the role of toxicology. Mattie DR.
Ann Clin Lab Sci 1997 May–Jun;27(3):173–8 (3 ref.)

Psychological factors affecting health after toxicological disasters. Havenaar JM, et al. **Clin Psychol Rev** 1997; 17(4):359–74 (90 ref.)

The ecology and biosafety of baculoviruses. Cory JS, et al.
Curr Opin Biotechnol 1997 Jun;8(3):323–7 (38 ref.)

Burning remnants of war [news] **Environ Health Perspect** 1996 Dec;104(12):1274–5

Now that you know. Dahl R. **Environ Health Perspect** 1997 Jan;105(1):38–42

Third Congress of Toxicology in Developing Countries: Together for Human and Environmental Welfare [meeting report] Mansour SA. **Environ Health Perspect** 1996 Mar; 104(3):324–5

Risk factors for pancreatitis [letter] Mee AS, et al. **Gut** 1997 Feb;40(2):289

Conceptualising and communicating a reconfigured occupational health service. Jackson JR, et al.
Int Arch Occup Environ Health 1996;68(6):472–7

A study of the factors determining perceptions of trust and credibility in environmental risk communication: the

importance of overcoming negative stereotypes. Peters RG. **Int Arch Occup Environ Health** 1996;68(6):442–7

Hazardous substance litigation in Maryland: theories of recovery and proof of causation. Gallacher I. **J Contemp Health Law Policy** 1997 Spring;13(2):423–59 (169 ref.)

California agency charged with delaying toxin reports [news] Lehrman S. **Nature** 1997 Mar 13;386(6621):102

Perspectives on methylmercury as a global health hazard. Weiss B. **Neurotoxicology** 1995 Winter;16(4):577–8

Occupational exposure limits for chemicals in the European Union. Hunter WJ, et al. **Occup Environ Med** 1997 Apr; 54(4):217–22

Managing the MSDS mess. Helmrich DM. **Occup Health Saf** 1996 Mar;65(3):47–8

Fabrics that repel. Rekus JF. **Occup Health Saf** 1994 Sep; 63(9):62–4, 81

Combustion products and other firefighter exposures. Lees PS. **Occup Med** 1995 Oct–Dec;10(4):691–706 (43 ref.)

Setting occupational exposure limits for pharmaceuticals. Naumann BD, et al. **Occup Med** 1997 Jan–Mar;12(1):67–80 (62 ref.)

Inhalant abuse in children and adolescents. Henretig F. **Pediatr Ann** 1996 Jan;25(1):47–52

Toxicological considerations in environmental audit studies. Jaffery FN, et al. **Qual Assur** 1997 Jan–Mar;5(1):19–26 (7 ref.)

Biosafety implications in sample introduction: module design characteristics for discrete-sample systems used in critical whole blood analyte testing environments. Degen BR, et al. **Scand J Clin Lab Invest Suppl** 1996;224:111–20 (4 ref.)

[Recommendation of maximum permissible exposure level--The Society of Japan Industrial Health] **Sangyo Eiseigaku Zasshi** 1996 Jul;38(4):172–209 **(Jpn)**

[Definition of concepts and systematization of hazardous substances] Bazaz'ian AG, et al. **Gig Sanit** 1997 May–Jun; (3):59–61 **(Rus)**

[Present-day medical preventive requirements for accident cleaning-up in transporting of chemical cargo] Krivulia SL, et al. **Gig Sanit** 1996 Sep–Oct;(5):33–5 **(Rus)**

[Comparative characterization of waste from petrochemical and oil processing industries in the environmental air] Suleimanov RA. **Gig Sanit** 1997 Jan–Feb;(1):8–10 (Eng. Abstr.) **(Rus)**

[Substantiation of criteria for evaluating fire and explosion hazards of chemical cargo transported by railroad] Zemskii GT, et al. **Gig Sanit** 1996 Sep–Oct;(5):51–4 **(Rus)**

[Concept of predicting hazards of toxicants] Maksimov GG. **Vestn Ross Akad Med Nauk** 1996;(5):60–3 (Eng. Abstr.) **(Rus)**

[Methods for controlling colonization of air and laboratory surfaces by pathogens of certain especially dangerous viral infections] Chepurnov AA, et al. **Vopr Virusol** 1997 Jul–Aug;42(4):189–91 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Effects of combined exposure to noise and toxic substances--critical review of the literature. Cary R, et al. **Ann Occup Hyg** 1997 Aug;41(4):455–65 (19 ref.)

Symptom survey: initial, critical step in a comprehensive community health study plan [editorial] Singleton CR, et al. **Arch Environ Health** 1997 Jul–Aug;52(4):255–6

Sparklers as a major hazard for burn injury. Singh S. **Burns** 1997 Jun;23(4):369–72

European Union System for the Evaluation of Substances (EUSES). Principles and structure. Vermeire TG, et al. **Chemosphere** 1997 Apr;34(8):1823–36 (29 ref.)

Priorities for endocrine disruptor research [news] **Environ Health Perspect** 1997 Apr;105(4):372

Assessing chemicals for estrogenic/hormone-disrupting properties: lessons from carcinogenicity assessment [letter] Ashby J. **Environ Health Perspect** 1996 Feb;104(2):132–4

Environmental health summit report: research blueprint for the 21st century. Baldwin CM. **Environ Health Perspect** 1996 Feb;104(2):210–3

Role of the neurologist in hazard identification and risk assessment. Feldman RG, et al. **Environ Health Perspect** 1996 Apr;104 Suppl 2:227–37 (27 ref.)

Growing pains. Meadows R. **Environ Health Perspect** 1996 Feb;104(2):146–9

Occupational risk factors for subgroups of non-Hodgkin's lymphoma. Tatham L, et al. **Epidemiology** 1997 Sep; 8(5):551–8

Effect of nitrogen dioxide and other combustion products on asthmatic subjects in a home-like environment. Salome CM, et al. **Eur Respir J** 1996 May;9(5):910–8

Risk assessment of mixtures and standard setting: working towards practical compromises. Bolt HM, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1179–81 (16 ref.)

Public health implications of hazardous waste sites: findings, assessment and research. De Rosa CT, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1131–8 (18 ref.)

Complex mixtures: hazard identification and risk assessment. Fay RM, et al. **Food Chem Toxicol** 1996 Nov–Dec; 34(11–12):1175–6 (5 ref.)

Experimental designs and risk assessment in combination toxicology: panel discussion. Henschler D, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1183–5

Mixture risk assessment: a case study of Monsanto experiences. Nair RS, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1139–45

Occupational exposure. Sterzl-Eckert H, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1177–8 (1 ref.)

Zero interaction response surfaces for combined-action assessment. Sühnel J. **Food Chem Toxicol** 1996 Nov–Dec; 34(11–12):1151–3

Striking the balance between the role of animal model and human data in hazard assessment [comment] Calabrese EJ. **Hum Exp Toxicol** 1997 Apr;16(4):186–7. Comment on: Hum Exp Toxicol 1996 Sep;15(9):702–35.

Report of Multiple Chemical Sensitivities (MCS) Workshop, Berlin, Germany, 21–23 February 1996. PCS/96.29 IPCS, Geneva, Switzerland. Lessof M. **Hum Exp Toxicol** 1997 Apr;16(4):233–4

Using the blood concentration of 2,5-dimethylfuran as a marker for smoking. Ashley DL, et al. **Int Arch Occup Environ Health** 1996;68(3):183–7

Notification of adverse health effects due to chemicals: two different ways in Germany. Thuerauf JR. **Int Arch Occup Environ Health** 1996;68(6):436–41

Neurological and neurophysiological examinations of workers occupationally exposed to organic solvent mixtures used in the paint and varnish production. Indulski JA, et al. **Int J Occup Med Environ Health** 1996;9(3):235–44

Chemical-induced inflammation and inflammatory diseases. Parke DV, et al. **Int J Occup Med Environ Health** 1996; 9(3):211–7 (24 ref.)

Chemical toxicity and reactive oxygen species. Parke DV, et al. **Int J Occup Med Environ Health** 1996;9(4):331–40 (45 ref.)

Hazardous chemical exposure: guidelines for the optometric office. Moates KN, et al. **J Am Optom Assoc** 1997 Apr; 68(4):225–32

Hazardous materials incidents: the Washington Poison Center experience and approach to exposure assessment. Burgess JL, et al. **J Occup Environ Med** 1997 Aug;39(8):760–6

ACOEM reproductive hazard management guidelines. American College of Occupational and Environmental Medicine. Fedoruk MJ. **J Occup Environ Med** 1996 Jan; 38(1):83–90

Medical surveillance of hazardous materials response fire fighters: a two-year prospective study. Kales SN, et al. **J Occup Environ Med** 1997 Mar;39(3):238–47

Epidemiology of hazardous materials responses by Massachusetts district HAZMAT teams. Kales SN, et al. **J Occup Environ Med** 1996 Apr;38(4):394–400

The potential impact on women from environmental exposures. Burg JA, et al. **J Womens Health** 1997 Apr; 6(2):159–61

A deluge can save the eyes. Champagne R. **Occup Health Saf** 1994 Oct;63(10):69–72, 74

Study options on respiratory protection before permitting confined space entry. Matranga B, et al. **Occup Health Saf** 1994 May;63(5):64–7, 72

Damage control. Petty M. **Occup Health Saf** 1996 Aug; 65(8):86

Detecting invisible risks. Rekus JF. **Occup Health Saf** 1994 May;63(5):46–8, 50, 52, passim

The dangers of chemical weapons. Zeigler JP. **Occup Health Saf** 1996 Oct;65(10):182–6

Reproductive health hazards in the pharmaceutical industry. Clement JD. **Occup Med** 1997 Jan–Mar;12(1):131–43 (61 ref.)

Respiratory health hazards and lung function in wildland firefighters. Harrison R, et al. **Occup Med** 1995 Oct–Dec; 10(4):857–70 (41 ref.)

The interface of environmental regulation and public health. Klees AA. **Occup Med** 1996 Jan–Mar;11(1):173–92

Establishing guidance for the handling and containment of new chemical entities and chemical intermediates in the pharmaceutical industry. Olson MJ, et al. **Occup Med** 1997 Jan–Mar;12(1):49–65 (7 ref.)

Smoking and exposure to occupational hazards in 8,304 workers in Guangzhou, China. Lam TH, et al. **Occup Med (Oxf)** 1996 Oct;46(5):351–5

Regulations on occupational diseases and the current situation in Germany. Baur X, et al. **Scand J Work Environ Health** 1996 Aug;22(4):306–10

A potential risk of cancer in a central laboratory. Modan B, et al. **Stat Med** 1996 Apr 15–May 15;15(7–9):759–63

Improved data collection and response to surveys with the assistance of neighborhood volunteers in a south Texas city. Brown BG, et al. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):385–93

Public health consequences of hazardous substance releases. Hall HI, et al. **Toxicol Ind Health** 1996 Mar–Apr; 12(2):289–93 (4 ref.)

Science put to service: enhancing environmental health services in communities affected by hazardous substances. Lichtveld MY, et al. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):267–84

Using patterns of child growth and development to assess communitywide effects of low-level exposure to toxic materials. Schell LM. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):373–8 (13 ref.)

Chemical mixtures in atmospheric aerosols and their correlation to lung diseases and lung cancer occurence in the general population. Spurny KR. **Toxicol Lett** 1996 Nov; 88(1–3):271–7 (34 ref.)

The contribution of the mouse in hazard identification studies. Maronpot RR, et al. **Toxicol Pathol** 1996 Nov–Dec; 24(6):726–31 (17 ref.)

Ventilation effects on combustion products. Tewarson A. **Toxicology** 1996 Dec 31;115(1–3):145–56 (9 ref.)

[Development of criteria and identification of areas most hazardous for the health of the population due to chemicals present in the environment. II. Choice of health indicators and synthetic taxonomic measures] Indulski JA, et al. **Med Pr** 1995;46(6):531–40 (Eng. Abstr.) **(Pol)**

[Chemical accidents and catastrophes as a source of the greatest hazard to the environment and human health in Poland] Krajewski JA. **Med Pr** 1997;48(1):93–103 (24 ref.) (Eng. Abstr.) **(Pol)**

[Biomarkers in diagnosis of kidney diseases caused by chemical toxins] Lutz W, et al. **Med Pr** 1997;48(2):205–13 (20 ref.) (Eng. Abstr.) **(Pol)**

[The influence of chemical and physical factors in the work environment on the amount of risk for abnormal pregnancy outcome] Makowiec-Dąbrowska T, et al. **Med Pr** 1997; 48(3):239–59 (84 ref.) (Eng. Abstr.) **(Pol)**

[Occupational exposure of medical personnel to chemical factors affecting fertility] Sitarek K, et al. **Med Pr** 1997; 48(2):215–21 (36 ref.) (Eng. Abstr.) **(Pol)**

[Problems associated with setting maximum allowable concentrations (MAC) of harmful substances present in the work environment] Więcek E. **Med Pr** 1997;48(1):75–83 (Eng. Abstr.) **(Pol)**

[The estimation of the real hazards of chemical substances based on an analysis of the concentration (dose)-body status relationship] Avaliani SL, et al. **Gig Sanit** 1997 Mar–Apr; (2):58–60 **(Rus)**

[The diagnosis of allergy to industrial chemical compounds using a method of immunothermistometry] Zaĭkov SV, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):148–50 (Eng. Abstr.) **(Rus)**

[Epidemiological evaluation of long-term effects of hazardous substances] Lebedev GP, et al. **Med Tr Prom Ekol** 1997;(6):37–9 (Eng. Abstr.) **(Rus)**

[Chemical accidents and organization of medical services] Musiichuk IuI. **Med Tr Prom Ekol** 1997;(6):27–30 (Eng. Abstr.) **(Rus)**

[Formulating problems of ecological diseases. Approaches to etiopathogenesis, classification and diagnosis of ecological diseases due to chemicals] Tukaev RD. **Med Tr Prom Ekol** 1996;(11):21–8 (Eng. Abstr.) **(Rus)**

[The anti-influenza immunity of workers subjected to exposure to chemical substances] Bikbulatova AN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar–Apr; (2):53–6 (Eng. Abstr.) **(Rus)**

[The prevention and control of the risks with chemical products] Vargas Marcos F. **Rev Esp Salud Publica** 1996 Jul–Aug;70(4):409–20 (Eng. Abstr.) **(Spa)**

ANALYSIS

Determination of cadmium in environmental samples by hydride generation with in situ concentration and atomic absorption detection. Matusiewicz H, et al. **Analyst** 1997 Apr;122(4):331–6

Fully robotic method for characterization of toxic residues. Velasco-Arjona A, et al. **Analyst** 1997 Feb;122(2):123–8

Environmental specimen banking in the Czech Republic: a pilot study. Kučera J, et al. **Chemosphere** 1997 May; 34(9–10):1975–87

Literature review and analysis of biological complexity in model stream ecosystems: influence of size and experimental design. Belanger SE. **Ecotoxicol Environ Saf** 1997 Feb;36(1):1–16 (187 ref.)

Acute or grave accentuation. Farmer P. **Hum Exp Toxicol** 1996 Dec;15(12):984–5 (5 ref.)

Immunotoxicity: hazard identification and risk assessment. Luster MI, et al. **Hum Exp Toxicol** 1996 Dec;15(12):947–8

WHO global project on biological monitoring of chemical exposure at the workplace. Mikheev MI, et al. **Int Arch Occup Environ Health** 1996;68(6):387–8

Analysis of toxic wastes in tissues from aquatic species. Applications of matrix solid-phase dispersion. Crouch MD, et al. **J Chromatogr A** 1997 Jul 11;774(1–2):287–309 (175 ref.)

Advances in dietary exposure research at the United States Environmental Protection Agency-National Exposure Research Laboratory. Berry MR. **J Expo Anal Environ Epidemiol** 1997 Jan–Mar;7(1):3–16

Development of a Dietary Exposure Potential Model for evaluating dietary exposure to chemical residues in food. Tomerlin JR, et al. **J Expo Anal Environ Epidemiol** 1997 Jan–Mar;7(1):81–101

Chronic risk in construction. Rekus JF. **Occup Health Saf** 1994 May;63(5):103–8, 128

Quality in environmental toxicology measurements. Weber JP. **Ther Drug Monit** 1996 Aug;18(4):477–83

Using measured contaminant concentrations versus modeling for CERCLA-related air pathway risk assessments. Smith SA, et al. **Toxicol Ind Health** 1997 Mar–Jun;13(2–3):231–45

Diet: the neglected variable in chemical safety evaluations. Newberne PM, et al. **Toxicol Pathol** 1996 Nov–Dec; 24(6):746–56 (32 ref.)

Monitoring and assessment of dietary exposure to chemical contaminants. Baht RV, et al. **World Health Stat Q** 1997; 50(1–2):132–49 (82 ref.)

[Evaluation of exposure to toxic factors occurring in the cellulose and paper industry] Szadkowska-Stańczyk I, et al. **Med Pr** 1995;46(6):563–74 (Eng. Abstr.) **(Pol)**

HAZARDOUS SUBSTANCES

BLOOD

A simple automated procedure for the detection and identification of peaks in gas chromatography--continuous scan mass spectrometry. Application to systematic toxicological analysis of drugs in whole human blood. Polettini A. **J Anal Toxicol** 1996 Nov-Dec;20(7):579-86

CLASSIFICATION

Classification of MMMF [letter] Brown RC, et al. **Ann Occup Hyg** 1996 Feb;40(1):115-7

Development of a priority list of chemical mixtures occurring at 1188 hazardous waste sites, using the HazDat database. Fay RM, et al. **Food Chem Toxicol** 1996 Nov-Dec; 34(11-12):1163-5 (11 ref.)

Class distinctions. Those who don't distinguish their flammable liquids' flashpoint classes, storage specifications and compliance codes can wind up trying to extinguish a blaze. Buric A. **Occup Health Saf** 1994 Nov;63(11):42-4, 50

METABOLISM

Excretion of lead as a mechanism for survival in Chrissia halyi (Ferguson, 1969). Prasuna G, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):849-52

Measured breath. Blaser L. **Environ Health Perspect** 1996 Dec;104(12):1292-4

Metabolic activation of toxins: tissue-specific expression and metabolism in target organs. Pelkonen O, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:767-74 (67 ref.)

The use of human in vitro metabolic parameters to explore the risk assessment of hazardous compounds: the case of ethylene dibromide. Ploemen JP, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):56-69

PHARMACOKINETICS

Research to develop a predicting system of mammalian subacute toxicity, (3). Construction of a predictive toxicokinetics model. Yamaguchi T, et al. **Chemosphere** 1996 Dec;33(12):2441-68

PHARMACOLOGY

Assessing environmental chemicals for estrogenicity using a combination of in vitro and in vivo assays. Shelby MD, et al. **Environ Health Perspect** 1996 Dec;104(12):1296-300

POISONING

Simultaneous death of twins. An environmental hazard or SIDS? Ramos V, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):75-8 (22 ref.)

Hazardous materials exposure information service: development, analysis, and medical implications. Burgess JL, et al. **Ann Emerg Med** 1997 Feb;29(2):248-54

An international questionnaire to explore neurotoxic symptoms. Chouanière D, et al. **Environ Res** 1997; 73(1-2):70-2

Neurobehavioral tests as a medical surveillance procedure: applying evaluative criteria. Guirguis S. **Environ Res** 1997; 73(1-2):63-9 (46 ref.)

Standardization of a questionnaire for neurotoxic symptoms. Kiesswetter E, et al. **Environ Res** 1997;73(1-2):73-80

Advanced life support for acute toxic injury (TOXALS). Baker DJ. **Eur J Emerg Med** 1996 Dec;3(4):256-62 (12 ref.)

Physicians' work in emergency response. Couturier AJ, et al. **Occup Health Saf** 1997 Feb;66(2):46-8, 50-2

Occupational toxicology: test methods and approaches for the pharmaceutical industry. Sprague G, et al. **Occup Med** 1997 Jan-Mar;12(1):119-29 (13 ref.)

STANDARDS

Safe use of art materials: who is responsible? [letter] Gottsegen M. **Environ Health Perspect** 1997 Jul; 105(7):687-8

Comments on "exposing ourselves to art" [letter] Weiss AL, et al. **Environ Health Perspect** 1997 Jul;105(7):686-7

Generic strategies for protecting worker health and safety. OSHA's general duty clause and hazard communications standard. Baram M. **Occup Med** 1996 Jan-Mar;11(1):69-77 (46 ref.)

Health hazard labeling for hazard communication in the pharmaceutical industry. Sussman RG, et al. **Occup Med** 1997 Jan-Mar;12(1):107-17 (12 ref.)

Which multiple of a safe body dose derived on the basis of default factors would probably be unsafe? Dieter HH, et al. **Regul Toxicol Pharmacol** 1995 Dec;22(3):262-7

Review of international criteria and mixture rules for health hazard classification. Ignatowski AJ, et al. **Regul Toxicol Pharmacol** 1995 Dec;22(3):231-42

[The problem of universal hygienic standardization of chemical pollution of the environment based on the permissible daily dose] Zhaldakova ZI, et al. **Gig Sanit** 1996 Nov-Dec;(6):3-5 (Eng. Abstr.) **(Rus)**

TOXICITY

The inhalation acute toxic class method: test procedures and biometric evaluations. Diener W, et al. **Arch Toxicol** 1997; 71(9):537-49

Further development of a multifactor potency scheme for chemical carcinogens. Nesnow S. **Cancer Detect Prev** 1995; 19(6):465-71

A research to develop a predicting system of mammalian subacute toxicity. I. Prediction of subacute toxicity using the biological parameters of acute toxicities. Yamaguchi T, et al. **Chemosphere** 1996 Mar;32(5):979-98

A research to develop a predicting system of mammalian subacute toxicity. II. Single dose detailed toxicity studies. Yamaguchi T, et al. **Chemosphere** 1996 Mar;32(5):999-1019

Evidence from whole-sediment, porewater, and elutriate testing in toxicity assessment of contaminated sediments. Liss W, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):140-7

Toxicity of potential irritants in mammalian cells in vitro. Santa Maria A, et al. **Ecotoxicol Environ Saf** 1996 Jun; 34(1):56-8

12th meeting of the Scientific Group on Methodologies for the Safety Evaluation of Chemicals: susceptibility to environmental hazards. Barrett JC, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:699-737 (264 ref.)

Methods for and approaches to evaluating susceptibility of ecological systems to hazardous chemicals. Burger J. **Environ Health Perspect** 1997 Jun;105 Suppl 4:843-8 (55 ref.)

Genetic susceptibility in ecosystems: the challenge for ecotoxicology. Evenden AJ, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:849-54 (38 ref.)

Combinations of susceptible genotypes and individual responses to toxicants. Hirvonen A. **Environ Health Perspect** 1997 Jun;105 Suppl 4:755-8 (48 ref.)

Genetic polymorphism of cytochrome P450 as a biomarker of susceptibility to environmental toxicity. Hong JY, et al. **Environ Health Perspect** 1997 Jun;105 Suppl 4:759-62 (32 ref.)

A new type of hazardous chemical: the chemosensitizers of multixenobiotic resistance. Kurelec B. **Environ Health Perspect** 1997 Jun;105 Suppl 4:855-60 (74 ref.)

IRAG working group 5. Other assays. Interagency Regulatory Alternatives Group. Curren RD, et al. **Food Chem Toxicol** 1997 Jan;35(1):127-58

Strategies for toxicological evaluation of mixtures. Eide I. **Food Chem Toxicol** 1996 Nov-Dec;34(11-12):1147-9 (14 ref.)

IRAG working group 4. Cell cytotoxicity assays. Interagency Regulatory Alternatives Group. Harbell JW, et al. **Food Chem Toxicol** 1997 Jan;35(1):79-126

Potential carcinogenicity of foundry fumes: a comparative in vivo-in vitro study. Humfrey CD, et al. **Food Chem Toxicol** 1996 Nov-Dec;34(11-12):1103-11

Toxicity testing of chemical mixtures: some general aspects and need of international guidelines. Kappus H, et al. **Food Chem Toxicol** 1996 Nov-Dec;34(11-12):1173-4

IRAG working group 6. Guidelines for the evaluation of eye irritation alternative tests: criteria for data submission. Interagency Regulatory Alternatives Group. Scala RA, et al. **Food Chem Toxicol** 1997 Jan;35(1):13-22

Subacute toxicity of a mixture of nine chemicals in rats: detecting interactive effects with a fractionated two-level factorial design. Groten JP, et al. **Fundam Appl Toxicol** 1997 Mar;36(1):15-29

Immunotoxicity: hazard identification and risk assessment. Luster MI, et al. **Hum Exp Toxicol** 1996 Dec;15(12):947-8

A new approach for evaluation of human exposure to environmental hazardous agents: a preliminary study [letter] Wormser U, et al. **J Occup Environ Med** 1997 Apr; 39(4):285-6

Testicular effects of 1,3,5-trinitrobenzene (TNB). II. Immunolocalization of germ cells using proliferating cell nuclear antigen (PCNA) as an endogenous marker. Chandra AM, et al. **J Toxicol Environ Health** 1997 Mar; 50(4):379-87

Evaluation of the rodent micronucleus assay in the screening of IARC carcinogens (groups 1, 2A and 2B) the summary report of the 6th collaborative study by CSGMT/JEMS MMS. Collaborative Study of the Micronucleus Group Test. Mammalian Mutagenicity Study Group [published erratum appears in Mutat Res 1997 Jul 14;391(3):259-67] Morita T, et al. **Mutat Res** 1997 Feb 28;389(1):3-122 (153 ref.)

Uncertainty factors in noncancer risk assessment [editorial; comment] Dourson M. **Regul Toxicol Pharmacol** 1996 Oct; 24(2 Pt 1):107. Comment on: Regul Toxicol Pharmacol 1996 Oct;24(2 Pt 1):108-20.

Evolution of science-based uncertainty factors in noncancer risk assessment [see comments] Dourson ML, et al. **Regul Toxicol Pharmacol** 1996 Oct;24(2 Pt 1):108-20 (62 ref.). Comment in: Regul Toxicol Pharmacol 1996 Oct;24(2 Pt 1):107.

Genetic effects of contaminant exposure--towards an assessment of impacts on animal populations. Hebert PD, et al. **Sci Total Environ** 1996 Nov 18;191(1-2):23-58 (276 ref.)

Pesticides hazards in developing countries. Koh D, et al. **Sci Total Environ** 1996 Sep;188 Suppl 1:S78-85 (21 ref.)

Green revolution agriculture and chemical hazards. Pimentel D. **Sci Total Environ** 1996 Sep;188 Suppl 1:S86-98 (93 ref.)

Human health and environmental hazards arising from the use of chemicals in developing countries. Plestina R, et al. **Sci Total Environ** 1996 Sep;188 Suppl 1:S135-40 (15 ref.)

Effect of various genotoxins and reproductive toxins in human lymphocytes and sperm in the Comet assay. Anderson D, et al. **Teratog Carcinog Mutagen** 1997; 17(1):29-43

The use of human in vitro metabolic parameters to explore the risk assessment of hazardous compounds: the case of ethylene dibromide. Ploemen JP, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):56-69

Reproductive toxicity screen of ammonium dinitramide administered in the drinking water of Sprague-Dawley rats. Kinkead ER, et al. **Toxicol Ind Health** 1995 Jul-Aug; 11(4):437-48

Prediction of neurotoxic potency of hazardous substances with a modular in vitro test battery. Binding N, et al. **Toxicol Lett** 1996 Nov;88(1-3):115-20

Situational smoke toxicity testing: hazard assessment as the 'front end' of a smoke toxicity test. Clarke FB, et al. **Toxicology** 1996 Dec 31;115(1-3):179-84 (7 ref.)

Inhibitory effect of lead on the repair of wounded monolayers of cultured vascular endothelial cells. Fujiwara Y, et al. **Toxicology** 1997 Feb 28;117(2-3):193-8

Reactions to particles in smoke. Hill IR. **Toxicology** 1996 Dec 31;115(1-3):119-22 (17 ref.)

[Key mechanisms of damage and adaptation in the body under the multi-factoral effect of ecotoxicants] Gil'miiarova FN, et al. **Vopr Med Khim** 1996 Oct-Dec; 42(4):344-7 (Eng. Abstr.) **(Rus)**

HAZARDOUS WASTE

Action on worksite health and safety problems: a follow-up survey of workers participating in a hazardous waste worker training program. Cole BL, et al. **Am J Ind Med** 1996 Dec;30(6):730-43

Application of on-line HPLC-1H NMR to environmental samples: analysis of groundwater near former ammunition plants. Godejohann M, et al. **Anal Chem** 1997 Sep 15; 69(18):3832-7

Biological waste air treatment in biofilters. Deshusses MA. **Curr Opin Biotechnol** 1997 Jun;8(3):335-9 (28 ref.)

Public perceptions of a radioactively contaminated site: concerns, remediation preferences, and desired involvement. Feldman DL, et al. **Environ Health Perspect** 1996 Dec;104(12):1344-52

Social and economic impact of neurotoxicity in hazardous waste workers in Lenoir, North Carolina. Callender TJ, et al. **Environ Res** 1997;73(1-2):166-74

Maternal residential proximity to hazardous waste sites and risk for selected congenital malformations [see comments] Croen LA, et al. **Epidemiology** 1997 Jul;8(4):347-54. Comment in: Epidemiology 1997 Jul;8(4):337-9.

Blood lead in the general population in Poland. Jakubowski M, et al. **Int Arch Occup Environ Health** 1996;68(3):193-8

Commentary and recommendations on control of waste anesthetic gases in the workplace. American College of Veterinary Anesthesiologists. **J Am Vet Med Assoc** 1996 Jul 1;209(1):75-7

Volatile organic compound testing of a population living near a hazardous waste site. Hamar GB, et al. **J Expo Anal Environ Epidemiol** 1996 Apr-Jun;6(2):247-55

Testicular effects of 1,3,5-trinitrobenzene (TNB). I. Dose response and reversibility studies. Chandra AM, et al. **J Toxicol Environ Health** 1997 Mar;50(4):365-78

Surface sampling isn't widely applicable [letter; comment] Parsons JR. **Occup Health Saf** 1996 Apr;65(4):10. Comment on: Occup Health Saf 1996 Jan;65(1):47-50.

Methodology to estimate the amount and particle size of soil ingested by children: implications for exposure assessment at waste sites [published erratum appears in Regul Toxicol Pharmacol 1997 Feb;25(1):87] Calabrese EJ, et al. **Regul Toxicol Pharmacol** 1996 Dec;24(3):264-8

Proceedings of the 2nd International Congress on Hazardous Waste: Impacts on Human and Ecological Health. Atlanta, Georgia, June 5-8, 1995. **Toxicol Ind Health** 1997 Mar-Jun; 13(2-3):105-400

Worldwide overview of hazardous wastes. Cortinas de Nava C. **Toxicol Ind Health** 1996 Mar-Apr;12(2):127-38 (18 ref.)

The process of community involvement--a case study: the Bartlesville, Oklahoma, Lead project. Elder MJ. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):395-400

Exposure measurement needs for hazardous waste sites: two case studies. Georgopoulos PG, et al. **Toxicol Ind Health** 1996 Sep-Oct;12(5):651-65

The role of demographics in public health assessments at Superfund sites: a case study of Rocky Mountain arsenal. Gregory EW Jr, et al. **Toxicol Ind Health** 1997 Mar-Jun; 13(2-3):363-71

Hazardous waste: human health effects. Johnson BL. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):121-43 (50 ref.)

A community-based study of adverse pregnancy outcomes near a large hazardous waste landfill in California. Kharrazi M, et al. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):299-310

Local health department activity at hazardous waste sites: a spectrum of responses. Klein HM, et al. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):379-84

Geographic information system (GIS) studies of cancer around NPL sites. Krautheim KR, et al. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):357-62

Reported health outcomes among residents living adjacent to a hazardous waste site, Harris County, Texas, 1992. Miller MS, et al. **Toxicol Ind Health** 1997 Mar-Jun; 13(2-3):311-9

The lattice diagram and 2 x 2 tables. Ozonoff D, et al. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):339-55

Biochemical assessment of cyanide-induced toxicity in migratory birds from gold mining hazardous waste ponds. Pritsos CA, et al. **Toxicol Ind Health** 1997 Mar-Jun; 13(2-3):203-9

Environmental contamination and health effects: what is the evidence? Sever LE. **Toxicol Ind Health** 1997 Mar-Jun; 13(2-3):145-61 (25 ref.)

A hazard ranking of organic contaminants in refinery effluents. Siljeholm J. **Toxicol Ind Health** 1997 Jul-Aug; 13(4):527-51

Using measured contaminant concentrations versus modeling for CERCLA-related air pathway risk assessments. Smith SA, et al. **Toxicol Ind Health** 1997 Mar-Jun;13(2-3):231-45

Hazardous waste: its impact on human health in Europe. Wyes HW. **Toxicol Ind Health** 1997 Mar-Jun; 13(2-3):109-19

[Blood PCDD/F levels in blood of residents of a former cable incineration facility] Ewers U, et al. **Gesundheitswesen** 1996 Aug-Sep;58(8-9):465-9 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

The comet assay for the detection of genotoxic damage in the earthworms: a promising tool for assessing the biological hazards of polluted sites. Salagovič J, et al. **Folia Biol (Praha)** 1996;42(1-2):17-21

Public health implications of hazardous waste sites: findings, assessment and research. De Rosa CT, et al. **Food Chem Toxicol** 1996 Nov-Dec;34(11-12):1131-8 (18 ref.)

Assessment of reproductive disorders and birth defects in communities near hazardous chemical sites: introduction [comment] Amler RW. **Reprod Toxicol** 1997 Mar-Jun; 11(2-3):221-2. Comment on: Reprod Toxicol 1997 Mar-Jun;11(2-3):223-30. Comment on: Reprod Toxicol 1997 Mar-Jun;11(2-3):231-42. Comment on: Reprod Toxicol 1997 Mar-Jun;11(2-3):243-59.

Assessment of reproductive disorders and birth defects in communities near hazardous chemical sites. I. Birth defects and developmental disorders [see comments] Savitz DA, et al. **Reprod Toxicol** 1997 Mar-Jun;11(2-3):223-30. Comment in: Reprod Toxicol 1997 Mar-Jun;11(2-3):221-2.

Assessment of reproductive disorders and birth defects in communities near hazardous chemical sites. II. Female reproductive disorders [see comments] Scialli AR, et al. **Reprod Toxicol** 1997 Mar-Jun;11(2-3):231-42. Comment in: Reprod Toxicol 1997 Mar-Jun;11(2-3):221-2.

Assessment of reproductive disorders and birth defects in communities near hazardous chemical sites. III. Guidelines for field studies of male reproductive disorders [see comments] Wyrobek AJ, et al. **Reprod Toxicol** 1997 Mar-Jun;11(2-3):243-59. Comment in: Reprod Toxicol 1997 Mar-Jun;11(2-3):221-2.

Assessment of potential health risks associated with ingesting heavy metals in fish collected from a hazardous-waste contaminated wetland in Louisiana, USA. Tchounwou PB, et al. **Rev Environ Health** 1996 Oct-Dec;11(4):191-203

Consideration of background exposures in the management of hazardous waste sites: a new approach to risk assessment. Smith AH, et al. **Risk Anal** 1996 Oct;16(5):619-25

Levels of chromosomal damage in hepatocytes of wild rats living within the area of a waste disposal plant. Eckl PM, et al. **Sci Total Environ** 1997 Mar 20;196(2):141-9

Estimation of heavy metal transformations in municipal solid waste. Flyhammar P. **Sci Total Environ** 1997 May 30; 198(2):123-33

Reliability of proxy information about the health effects of exposure to hazardous waste incineration. Hornung CA, et al. **Toxicol Ind Health** 1996 Mar-Apr;12(2):245-54

Assessment of reproductive health effects of hazardous waste. Kipen HM. **Toxicol Ind Health** 1996 Mar-Apr;12(2):211-24 (43 ref.)

Review of extant community-based epidemiologic studies on health effects of hazardous wastes. Miller AB. **Toxicol Ind Health** 1996 Mar-Apr;12(2):225-33 (25 ref.)

Health effects from hazardous waste incineration facilities: five case studies. Pleus RC, et al. **Toxicol Ind Health** 1996 Mar-Apr;12(2):277-87 (23 ref.)

Assessing the indoor air impact from a hazardous waste site: a case study. Underwood MC. **Toxicol Ind Health** 1996 Mar-Apr;12(2):179-88

[Hazardous residues in Mexico. Evaluation of health risks] Diaz-Barriga F. **Salud Publica Mex** 1996 Jul-Aug; 38(4):280-91 (Eng. Abstr.) **(Spa)**

ANALYSIS

Waste anesthetic nitrous oxide suspected to be frequent contaminant in medical practices worldwide [letter] Chang WP, et al. **Arch Environ Health** 1997 Mar-Apr;52(2):149

PCB and heavy metal contamination and effects in European starlings (Sturnus vulgaris) at a superfund site. Arenal CA, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):254-62

Response to C.S. Sims [letter] Tschaeche AN. **Health Phys** 1997 Sep;73(3):535-6

LEGISLATION & JURISPRUDENCE

Environmental health and hazardous waste issues related to the U.S.-Mexico border. Carter DE, et al. **Environ Health Perspect** 1996 Jun;104(6):590-4

Hazard communication: challenges in the pharmaceutical industry. Hayes EP. **Occup Med** 1997 Jan-Mar; 12(1):95-105 (7 ref.)

PREVENTION & CONTROL

Land application of sewage sludge in China. Wang MJ. **Sci Total Environ** 1997 Apr 30;197(1-3):149-60 (47 ref.)

STATISTICS & NUMERICAL DATA

Development of a priority list of chemical mixtures occurring at 1188 hazardous waste sites, using the HazDat database. Fay RM, et al. **Food Chem Toxicol** 1996 Nov-Dec; 34(11-12):1163-5 (11 ref.)

HAZARDOUS WASTE, RADIOACTIVE see **RADIOACTIVE WASTE**

HAZARDOUS WASTE SITES see **HAZARDOUS WASTE**

HAZARDS, EQUIPMENT see **EQUIPMENT SAFETY**

HAZARDS MODELS see **PROPORTIONAL HAZARDS MODELS**

HB A1C see **HEMOGLOBIN A, GLYCOSYLATED**

HBA1 see **HEMOGLOBIN A, GLYCOSYLATED**

HBAG see **HEPATITIS B ANTIGENS**

HBCAG see **HEPATITIS B CORE ANTIGENS**

HBEAG see **HEPATITIS B E ANTIGENS**

HBGF-1 see **FIBROBLAST GROWTH FACTOR, ACIDIC**

HBGF-2 see **FIBROBLAST GROWTH FACTOR, BASIC**

HBLV see **HERPESVIRUS 6, HUMAN**

HBSAG see **HEPATITIS B SURFACE ANTIGENS**

HCB see **HEXACHLOROBENZENE**

HCG see **GONADOTROPINS, CHORIONIC**

HCG, ALPHA SUBUNIT see **GLYCOPROTEIN HORMONES, ALPHA SUBUNIT**

HCG-BETA see **CHORIONIC GONADOTROPIN, BETA SUBUNIT, HUMAN**

HCG RECEPTORS see **RECEPTORS, LH**

HCV ANTIBODIES see **HEPATITIS C ANTIBODIES**

HDL CHOLESTEROL see **LIPOPROTEINS, HDL CHOLESTEROL**

HEAD

see related
FACIAL BONES
SKULL

Comparative effects of exposure to different light sources (He-Ne laser, InGaAl diode laser, a specific type of noncoherent LED) on skin blood flow for the head. Pöntinen PJ, et al. **Acupunct Electrother Res** 1996 Apr-Jun; 21(2):105-18

"Head and shoulder" maneuver [letter] Welch RA. **Am J Obstet Gynecol** 1997 May;176(5):1118

The relationship between ortho head posture and head posture measured during walking. Preston CB, et al. **Am J Orthod Dentofacial Orthop** 1997 Mar;111(3):283-7

Hemodynamic and thermal responses to head and neck cooling in men and women. Ku YT, et al. **Am J Phys Med Rehabil** 1996 Nov-Dec;75(6):443-50

Head positioning for high +Gz loads: an analysis of the techniques used by F/A-18 pilots. Newman DG. **Aviat Space Environ Med** 1997 Aug;68(8):732-5

Effect of direction of head movement on motion sickness caused by Coriolis stimulation. Woodman PD, et al. **Aviat Space Environ Med** 1997 Feb;68(2):93-8

Source document position as it affects head position and neck muscle tension. Hamilton N. **Ergonomics** 1996 Apr; 39(4):593-610

The coding of head orientations in neurons of bilateral vestibular nuclei of cats after unilateral labyrinthectomy: response to off-vertical axis rotation. Chan YS. **Exp Brain Res** 1997 Apr;114(2):293-303

Visual perceptions of head-fixed and trunk-fixed anterior/posterior axes. Darling WG, et al. **Exp Brain Res** 1996 Nov;112(1):127-34

Registration of head volume images using implantable fiducial markers. Maurer CR Jr, et al. **IEEE Trans Med Imaging** 1997 Aug;16(4):447-62

Head formation at the basal end and mirror-image pattern duplication in Hydra vulgaris. Müller WA. **Int J Dev Biol** 1996 Dec;40(6):1119-31

Competition-based head versus foot decision in chimeric hydras. Müller WA. **Int J Dev Biol** 1996 Dec;40(6):1133-9

Effects of eye and head position on horizontal and vertical smooth pursuit. Mann CA, et al. **Invest Ophthalmol Vis Sci** 1997 Mar;38(3):773-9

Hydatid cyst of the pterygopalatine-infratemporal fossa. Gangopadhyay K, et al. **J Laryngol Otol** 1996 Oct; 110(10):978-80

A revised dosimetric model of the adult head and brain. Bouchet LG, et al. **J Nucl Med** 1996 Jul;37(7):1226-36

Visual influence on head shaking using the vestibular autorotation test. Cheung B, et al. **J Vestib Res** 1996 Nov-Dec;6(6):411-22

Effects of vestibular loss on head stabilization in response to head and body perturbations. Shupert CL, et al. **J Vestib Res** 1996 Nov-Dec;6(6):423-37

Three-dimensional mapping of the static magnetic field inside the human head. Li S, et al. **Magn Reson Med** 1996 Nov; 36(5):705-14

Head and trunk orientation modulate visual neglect. Schindler I, et al. **Neuroreport** 1997 Aug 18;8(12):2681-5

CT and MR imaging of head and neck tuberculosis. Moon WK, et al. **Radiographics** 1997 Mar-Apr;17(2):391-402

Necrotizing fasciitis of the head and neck: role of CT in diagnosis and management. Becker M, et al. **Radiology** 1997 Feb;202(2):471-6

Subcutaneous oxygen and carbon dioxide tensions during head-up tilt-induced central hypovolaemia in humans. Larsen PN, et al. **Scand J Clin Lab Invest** 1996 Feb; 56(1):17-24

Adult headbanging: sleep studies and treatment. Chisholm T, et al. **Sleep** 1996 May;19(4):343-6

Ability to reproduce head position after whiplash injury. Loudon JK, et al. **Spine** 1997 Apr 15;22(8):865-8

Visually elicited head rotation in pigeons (Columba livia). Türke W, et al. **Vision Res** 1996 Oct;36(20):3329-37

Successful treatment of a patient with chronic fatigue using head-up tilt guided therapy. Handa KK, et al. **Wis Med J** 1997 Mar;96(3):40-2

[Dropped head syndrome: diagnostic discussion apropos of 3 cases] Petiot P, et al. **Rev Neurol (Paris)** 1997 May; 153(4):251-5 (15 ref.) (Eng. Abstr.) **(Fre)**

[The suitability of various cephalometric planes for the determination of vertical alignment of the head] Menozzi M, et al. **Z Morphol Anthropol** 1996 Sep;81(2):205-15 (Eng. Abstr.) **(Ger)**

[The effect of treatment with prisms on head position in persons with nystagmus—preliminary report] Baranowska-George T. **Klin Oczna** 1996 Mar;98(3):195-6 (Eng. Abstr.) **(Pol)**

ABNORMALITIES

Macrocephaly, facial abnormalities, disproportionate tall stature, and mental retardation--a sib observation. Bakker HD, et al. **Am J Med Genet** 1997 Jun 13;70(3):312-4

Tri-amelia and phocomelia with multiple malformations resembling Roberts syndrome in a fetus: is it a variant or a new syndrome? Song SY, et al. **Clin Genet** 1996 Dec; 50(6):502-4

Brachycephaly is ineffective for detection of Down syndrome in early midtrimester fetuses. Borrell A, et al. **Early Hum Dev** 1997 Jan 3;47(1):57-61

Are North American Bunyamwera serogroup viruses etiologic agents of human congenital defects of the central nervous system? Calisher CH, et al. **Emerg Infect Dis** 1995 Oct-Dec;1(4):147-51

Doublefoot: a new mouse mutant affecting development of limbs and head. Lyon MF, et al. **Genet Res** 1996 Dec; 68(3):221-31

Overexpression of the Xenopus Xl-fli gene during early embryogenesis leads to anomalies in head and heart development and erythroid differentiation. Remy P, et al. **Int J Dev Biol** 1996 Jun;40(3):577-89

Macrocephaly in children and adults with autism. Lainhart JE, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Feb; 36(2):282-90

Head circumference in autism and other pervasive developmental disorders. Woodhouse W, et al. **J Child Psychol Psychiatry** 1996 Sep;37(6):665-71

Effects of estrogenic hormones on early development of Xenopus laevis. Nishimura N, et al. **J Exp Zool** 1997 Jul 1;278(4):221-33

A case of fetal decapitation. Shipp TD, et al. **J Ultrasound Med** 1996 Jul;15(7):535-7

Autism and macrocephaly [letter] Stevenson RE, et al. **Lancet** 1997 Jun 14;349(9067):1744-5

Are reduced head circumference at birth and increased obstetric complications associated only with schizophrenic psychosis? A comparison with schizo-affective and unspecified functional psychoses. McNeil TF, et al. **Schizophr Res** 1996 Oct 18;22(1):41-7

A dicephalic goat with other defects. Ramadan RO. **Zentralbl Veterinarmed A** 1996 Aug;43(6):337-43

ANATOMY & HISTOLOGY

A Monte Carlo study of the inferential properties of three methods of shape comparison. Coward WM, et al. **Am J Phys Anthropol** 1996 Mar;99(3):369-77

Increased head circumference in schizophrenia. Bassett AS, et al. **Biol Psychiatry** 1996 Dec 1;40(11):1173-5

Comparison of second trimester biometry in singleton and twin pregnancies conceived with assisted reproductive techniques. Gardosi J, et al. **Br J Obstet Gynaecol** 1997

Jun;104(6):737–40

Synthesis of spin labels for ESR imaging of living rat head. Niwa R, et al. **Chem Pharm Bull (Tokyo)** 1997 May; 45(5):923–7

Multifactorial inheritance of non-syndromic macrocephaly. Arbour L, et al. **Clin Genet** 1996 Aug;50(2):57–62

Correlation between source asymmetry and scalp potential asymmetry in a prolate spheroid model of the head. Eshel Y, et al. **Comput Biol Med** 1997 Mar;27(2):87–96

Influence of lateral head tilting on head-shaking nystagmus. Kamei T, et al. **Eur Arch Otorhinolaryngol Suppl** 1997; 1:S58–60

Airway dimensions and head posture in obstructive sleep apnoea. Solow B, et al. **Eur J Orthod** 1996 Dec;18(6):571–9

A novel volumetric feature extraction technique with applications to MR images. Ashton EA, et al. **IEEE Trans Med Imaging** 1997 Aug;16(4):365–71 (23 ref.)

A head motion measurement system suitable for emission computed tomography. Goldstein SR, et al. **IEEE Trans Med Imaging** 1997 Feb;16(1):17–27

Soft tissue facial morphology related to headform: a three-dimensional quantitative analysis in childhood. Ferrario VF, et al. **J Craniofac Genet Dev Biol** 1997 Apr–Jun;17(2):86–95

Adaptive differentiations of the skin of the head in a subterranean rodent, Spalax ehrenbergi. Klauer G, et al. **J Morphol** 1997 Jul;233(1):53–66

Interaction of eye-, head-, and trunk-bound information in spatial perception and control. Mittelstaedt H. **J Vestib Res** 1997 Jul–Aug;7(4):283–302

Magnetic resonance imaging of rat head with a high-strength (4.7 T) magnetic field. Yamada K, et al. **J Vet Med Sci** 1997 Apr;59(4):303–6

Porous channels in the cuticle of the head–arrester system in dragon/damselflies (Insecta:Odonata). Gorb SN. **Microsc Res Tech** 1997 Jun 1–15;37(5–6):583–91

Comparison of horizontal nystagmus in different head positions: a study by damped pendular rotation test. Iida M, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Jul–Aug; 58(4):204–7

Relationship of tonsil size on an airway blockage maneuver in children during sedation. Fishbaugh DF, et al. **Pediatr Dent** 1997 May–Jun;19(4):277–81

Sex classification is better with three-dimensional head structure than with image intensity information. O'Toole AJ, et al. **Perception** 1997;26(1):75–84

Computer forum. Slavin KV. **Surg Neurol** 1997 Apr; 47(4):397–8

BLOOD SUPPLY

Distribution of the arterial supply to the vomeronasal organ in the cat. Salazar I, et al. **Anat Rec** 1997 Jan;247(1):129–36

Treatment of high-flow vascular malformations in the head and neck with arterial ligation followed by sclerotherapy. Chen MT, et al. **Ann Plast Surg** 1996 Feb;36(2):147–53

Nitroglycerin-induced headache [editorial; comment] Van Gelderen EM, et al. **Cephalalgia** 1996 Oct;16(6):405. Comment on: Cephalalgia 1996 Oct;16(6):412–8.

Tumor angiogenesis. Petruzzelli GJ. **Head Neck** 1996 May–Jun;18(3):283–91 (49 ref.)

Percutaneous sclerotherapy of venous malformations of the head and neck using sodium tetradecyl sulphate (sotradecol). Siniluoto TM, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):145–50

[Diagnosis and therapy of vascular malformations in the head–neck area and their differentiation form hemangiomas] Stocker HI, et al. **Handchir Mikrochir Plast Chir** 1996 Nov;28(6):292–301 (Eng. Abstr.) **(Ger)**

[A quantitative assessment of the blood supply to the head by indirect rheography] Karlov VA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(4):62–3 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Does station of the fetal head at epidural placement affect the position of the fetal vertex at delivery? Robinson CA, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):991–4

The metameric pattern of the head mesoderm—does it exist? Freund R, et al. **Anat Embryol (Berl)** 1996 Jan;193(1):73–80

Spatial distribution of postotic crest cells defines the head/trunk interface of the vertebrate body: embryological interpretation of peripheral nerve morphology and evolution of the vertebrate head. Kuratani S. **Anat Embryol (Berl)** 1997 Jan;195(1):1–13 (104 ref.)

Transcription factors and head formation in vertebrates. Bally-Cuif L, et al. **Bioessays** 1997 Feb;19(2):127–35 (86 ref.)

Collier, a novel regulator of Drosophila head development, is expressed in a single mitotic domain. Crozatier M, et al. **Curr Biol** 1996 Jun 1;6(6):707–18

Patterns of distal-less gene expression and inductive interactions in the head of the direct developing frog Eleutherodactylus coqui. Fang H, et al. **Dev Biol** 1996 Oct 10;179(1):160–72

A sticky problem: the Xenopus cement gland as a paradigm for anteroposterior patterning. Sive H, et al. **Dev Dyn** 1996 Mar;205(3):265–80 (97 ref.)

Xenopus LIM motif-containing protein kinase, Xlimk1, is expressed in the developing head structure of the embryo. Takahashi T, et al. **Dev Dyn** 1997 Jun;209(2):196–205

Comparison between two HNK-1-related antibodies immunoreactivity (HNK-1-anti-leu 7 and anti-HNK-1/N-CAM) during rat cephalogenesis. Louryan S, et al. **Eur J Morphol** 1996 Nov;34(4):295–300

A monoclonal antibody against neural crest-stage Xenopus laevis lectin perturbs craniofacial development of Xenopus. Evanson JE, et al. **J Craniofac Genet Dev Biol** 1996 Apr–Jun;16(2):74–93

Murine MLP: cloning and expression in the embryonic head. Harrod GV, et al. **J Craniofac Genet Dev Biol** 1996 Apr–Jun;16(2):65–73

How to keep a head in order [news] Ahlberg PE. **Nature** 1997 Feb 6;385(6616):489–90

GROWTH & DEVELOPMENT

Head growth in cystic fibrosis following early diagnosis by neonatal screening. Ghosal S, et al. **Arch Dis Child** 1996 Sep;75(3):191–3

Anterior fontanelle pressure monitoring for the evaluation of asymptomatic infants with increased head growth rate. Massager N, et al. **Childs Nerv Syst** 1996 Jan;12(1):38–42

On the pattern of organ growth in the common tern (Sterna hirundo). Lilja C. **Growth Dev Aging** 1997 Spring;61(1):11–8

[Fetal growth from the AUDIPOG study. I. Establishment of reference curves] Mamelle N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):61–70 (37 ref.) (Eng. Abstr.) **(Fre)**

INJURIES see HEAD INJURIES

INNERVATION

Anatomic considerations of halo pin placement. Ebraheim NA, et al. **Am J Orthop** 1996 Nov;25(11):754–6

Current principles in microsurgical nerve repair. Hausamen JE, et al. **Br J Oral Maxillofac Surg** 1996 Apr;34(2):143–57 (51 ref.)

MICROBIOLOGY

Space-occupying and life-threatening infections of the head, neck, and thorax. Gradon JD. **Infect Dis Clin North Am** 1996 Dec;10(4):857–78 (105 ref.)

PATHOLOGY

Head and neck pilomatrixoma. Rotenberg M, et al. **Am J Otolaryngol** 1996 Mar–Apr;17(2):133–5

Reference data for head circumference-for-length in preterm low-birth-weight infants. Roche AF, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):50–7

Macrocephaly, subarachnoid fluid collection, and glutaric aciduria type I. Drigo P, et al. **J Child Neurol** 1996 Sep; 11(5):414–7

Fine-needle aspiration of the head and neck. Layfield LJ. **Pathology (Phila)** 1996;4(2):409–38 (77 ref.)

PHYSIOLOGY

Emission of extremely strong magnetic fields from the head and whole body during oriental breathing exercises. Hisamitsu T, et al. **Acupunct Electrother Res** 1996 Jul–Dec; 21(3–4):219–27

Evaluation of evaporative heat transfer characteristics of helmets. Liu X, et al. **Appl Human Sci** 1997 May; 16(3):107–13

Physiological and psychological effects of head heating during rest and work. Nagai Y, et al. **Appl Human Sci** 1996 Sep;15(5):227–37

Visual vestibular interaction in the dynamic visual acuity test during voluntary head rotation. Lee MH, et al. **Aviat Space Environ Med** 1997 Feb;68(2):111–7

The optokinetic cervical reflex in pilots of high-performance aircraft. Merryman RF, et al. **Aviat Space Environ Med** 1997 Jun;68(6):479–87

Aviation spatial orientation in relationship to head position and attitude interpretation. Patterson FR, et al. **Aviat Space Environ Med** 1997 Jun;68(6):463–71

Aviation spatial orientation in relationship to head position, altitude interpretation, and control. Smith DR, et al. **Aviat Space Environ Med** 1997 Jun;68(6):472–8

Measurement of the vestibulo-ocular reflex by magnetometry during active head movement. Aldren CP, et al. **Br J Audiol** 1996 Oct;30(5):325–31

The influence of head position and head position change on spontaneous body posture and motility in full-term AGA and SGA newborn infants. van Kranen-Mastenbroek VH, et al. **Brain Dev** 1997 Mar;19(2):104–10

Head coordination in the sagittal plane in toddlers during walking: preliminary results. Ledebt A, et al. **Brain Res Bull** 1996;40(5–6):371–3

The effect of eye/head deviation and visual conflict on visually evoked postural responses. Wolsley CJ, et al. **Brain Res Bull** 1996;40(5–6):437–41; discussion 441–2

The influence of skull-conductivity misspecification on inverse source localization in realistically shaped finite element head models. Pohlmeier R, et al. **Brain Topogr** 1997 Spring;9(3):157–62

Head direction cells: properties and functional significance. Muller RU, et al. **Curr Opin Neurobiol** 1996 Apr; 6(2):196–206 (40 ref.)

Isolation of a marker for head-specific cell differentiation in hydra. Hermans-Borgmeyer I, et al. **Differentiation** 1996 Dec;61(2):95–101

Inverse localization of electric dipole current sources in finite element models of the human head. Buchner H, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 102(4):267–78

Coupling of fingertip somatosensory information to head and body sway. Jeka JJ, et al. **Exp Brain Res** 1997 Mar; 113(3):475–83

Numerical solution of the potential due to dipole sources in volume conductors with arbitrary geometry and conductivity. Rosenfeld M, et al. **IEEE Trans Biomed Eng** 1996 Jul;43(7):679–89

Head and body positions affect thermoregulatory tonus in deltoid muscles. Meigal AY, et al. **J Appl Physiol** 1996 Apr;80(4):1397–400

Dynamic responses of the head and cervical spine to axial impact loading. Nightingale RW, et al. **J Biomech** 1996 Mar;29(3):307–18

Murine MLP: cloning and expression in the embryonic head. Harrod GV, et al. **J Craniofac Genet Dev Biol** 1996 Apr–Jun;16(2):65–73

Modulation of the human vestibuloocular reflex during saccades: probing by high-frequency oscillation and torque pulses of the head. Tabak S, et al. **J Neurophysiol** 1996 Nov;76(5):3249–63

Three-dimensional model of the human eye-head saccadic system. Tweed D. **J Neurophysiol** 1997 Feb;77(2):654–66

Firing properties of head direction cells in the rat anterior thalamic nucleus: dependence on vestibular input. Stackman RW, et al. **J Neurosci** 1997 Jun 1;17(11):4349–58

The control of head movements during human balance corrections. Allum JH, et al. **J Vestib Res** 1997 Mar–Jun; 7(2–3):189–218 (91 ref.)

Head–trunk coordination during hops using one or two feet in children and adults. Assaiante C, et al. **J Vestib Res** 1997 Mar–Jun;7(2–3):145–60

Locomotor head–trunk coordination strategies following space flight. Bloomberg JJ, et al. **J Vestib Res** 1997 Mar–Jun;7(2–3):161–77

Visual object localization through vestibular and neck inputs. 1: Localization with respect to space and relative to the head and trunk mid-sagittal planes. Maurer C, et al. **J Vestib Res** 1997 Mar–Jun;7(2–3):119–35

Interaction of eye-, head-, and trunk-bound information in spatial perception and control. Mittelstaedt H. **J Vestib Res** 1997 Jul–Aug;7(4):283–302

Human head–neck biomechanics under axial tension. Yoganandan N, et al. **Med Eng Phys** 1996 Jun;18(4):289–94

Three hundred sixty-degree rotation of the posterior semicircular canal for treatment of benign positional vertigo: a placebo-controlled trial. Lempert T, et al. **Neurology** 1997 Sep;49(3):729–33

Relationship between age and head movement during stepping in place by nonhandicapped children and persons with mental retardation. Okuzumi H, et al. **Percept Mot Skills** 1997 Aug;85(1):375–81

A behavioral measure of selective listening. Takahashi M. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1483–7

The effect of initial head position on active cervical axial rotation range of motion in two age populations. Walmsley RP, et al. **Spine** 1996 Nov 1;21(21):2435–42

[Examination of eye-head coordination] Arai Y. **Nippon Rinsho** 1997 Mar;55 Suppl 1:432–4 (8 ref.) **(Jpn)**

[The role of the CSF dynamic component in forming the periodic fluctuations in the electric impedance of the head] Moskalenko IuE, et al. **Fiziol Zh Im I M Sechenova** 1996 Jul;82(7):36–45 (Eng. Abstr.) **(Rus)**

[A software-hardware package for studying the coordination of human eye, head and hand movements] Baziian BKh, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar–Apr; 46(2):396–9 **(Rus)**

PHYSIOPATHOLOGY

Head turn in 1-eyed and normally sighted individuals during monocular viewing. Goltz HC, et al. **Arch Ophthalmol** 1997 Jun;115(6):748–50

Head circumference measurements in children with autism. Davidovitch M, et al. **J Child Neurol** 1996 Sep;11(5):389–93

Yes/yes head tremor without appendicular tremor after bilateral cerebellar infarction. Finsterer J, et al. **J Neurol Sci** 1996 Aug;139(2):242–5

Frameless stereotaxy with real-time tracking of patient head movement and retrospective patient-image registration. Ryan MJ, et al. **J Neurosurg** 1996 Aug;85(2):287–92

Cervical kyphosis after resolution of myopathic head drop. A case report. Jaster JH, et al. **Spine** 1996 Sep 1; 21(17):2023–5

RADIATION EFFECTS

Head-portion exposure to low-level X-rays reduces isolation-induced aggression of mouse, and involvement of the olfactory carnosine in modulation of the radiation effects. Miyachi Y, et al. **Behav Brain Res** 1996 Nov; 81(1–2):135–40

Brief communication: effects of diagnostic irradiation during pregnancy on head circumference at birth. Bohnen NI, et al. **Int J Neurosci** 1996 Nov;87(3–4):175–80

RADIOGRAPHY

A randomized comparison of iodixanol and iohexol in adult intracranial computed tomography scanning. Grossman RI,

et al. **Acad Radiol** 1996 Sep;3 Suppl 3:S488–94

Subcutaneous fat necrosis of the newborn: CT findings of head and neck involvement. Norton KI, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):547–50

A survey of routine head CT protocols in Australia. Smith AN, et al. **Br J Radiol** 1997 Apr;70:372–4

The use of deblurring technique for improving the longitudinal resolution in helical CT of the head and neck region. Sakai O, et al. **Comput Med Imaging Graph** 1997 May–Jun;21(3):153–64

Effect of source location on the scalp potential asymmetry in a numerical model of the head. Abboud S, et al. **IEEE Trans Biomed Eng** 1996 Jul;43(7):690–6

An automatic technique for finding and localizing externally attached markers in CT and MR volume images of the head. Wang MY, et al. **IEEE Trans Biomed Eng** 1996 Jun; 43(6):627–37

RADIONUCLIDE IMAGING

Correlation of bone density to strength and physical activity in young men with a low or moderate level of physical activity. Nordström P, et al. **Calcif Tissue Int** 1997 Apr; 60(4):332–7

SURGERY

Aesthetic concerns in pectoralis major muscle flap harvesting for head and neck reconstruction [letter] Isenberg JS. **Ann Plast Surg** 1996 Jun;36(6):658–9

Free rectus abdominis musculocutaneous flap for head and neck reconstruction. Nishimoto S, et al. **J Reconstr Microsurg** 1997 Apr;13(3):171–5

Resorbable fixation plates in head and neck surgery. Weisberger EC, et al. **Laryngoscope** 1997 Jun;107(6):716–9

[Reconstructive operations on the head and neck using a microsurgical technic] Gubin MA, et al. **Stomatologiia (Mosk)** 1995;74(6):46–8 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Automatic fetal head measurements from sonographic images. Chalana V, et al. **Acad Radiol** 1996 Aug;3(8):628–35

Brachycephaly is ineffective for detection of Down syndrome in early midtrimester fetuses. Borrell A, et al. **Early Hum Dev** 1997 Jan 3;47(1):57–61

Interactive automatic fetal head measurements from ultrasound images using multimedia computer technology. Pathak SD, et al. **Ultrasound Med Biol** 1997;23(5):665–73

VIROLOGY

Are North American Bunyamwera serogroup viruses etiologic agents of human congenital defects of the central nervous system? Calisher CH, et al. **Emerg Infect Dis** 1995 Oct–Dec;1(4):147–51

HEAD AND NECK NEOPLASMS

Ewing's sarcoma and peripheral primitive neuroectodermal tumor: an interim report. Batsakis JG, et al. **Ann Otol Rhinol Laryngol** 1996 Oct;105(10):838–43 (32 ref.)

Yolk sac tumors (endodermal sinus tumors) of the extracranial head and neck regions. Devaney KO, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):254–60 (29 ref.)

A new immunocompetent murine model for oral cancer. O'Malley BW Jr, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):20–4

Airway management of neonates with antenatally detected head and neck anomalies. Stocks RM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):641–5

Recurrence of malignant tumours in the head and neck [editorial] Ogden GR. **BMJ** 1996 Sep 21;313(7059):700–1

Non-squamous malignancy in lymph nodes: the occult primary. Jones AS, et al. **Clin Otolaryngol** 1993 Aug; 18(4):311–6

Head and neck. **Curr Opin Oncol** 1996 May;8(3):B93–7

Head and neck. **Curr Opin Oncol** 1997 Jul;9(4):B70–5

Melanotic neuroectodermal tumour of infancy: immunohistochemical and histogenetic consideration. Sharma MC, et al. **J Assoc Physicians India** 1996 Apr; 44(4):278–80

Primary cervical neuroblastoma in infants. Tai CF, et al. **J Formos Med Assoc** 1997 Jul;96(7):561–4

Practical steps in the management of adult head and neck masses. Bumpous JM, et al. **J Ky Med Assoc** 1996 Feb; 94(2):50–6

Squamous cell carcinoma of head and neck. Voravud N, et al. **J Med Assoc Thai** 1997 Apr;80(4):207–18 (98 ref.)

Factors related to quality of life and functional status in 50 patients with head and neck cancer. Long SA, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1084–8

Head and neck manifestations of plasma cell neoplasms. Nofsinger YC, et al. **Laryngoscope** 1997 Jun;107(6):741–6

A rationale for therapy of the N0 neck. Pillsbury HC 3rd, et al. **Laryngoscope** 1997 Oct;107(10):1294–315 (210 ref.)

Endodermal sinus tumors in the head and neck region. Kusumakumari P, et al. **Med Pediatr Oncol** 1997 Oct; 29(4):303–7

Risk of lung cancer among patients with head and neck cancer. Deleyiannis FW, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):630–6

Prospective, longitudinal quality-of-life study of patients with head and neck cancer: a feasibility study including the EORTC QLQ-C30. Hammerlid E, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):666–73

Imaging of pediatric head and neck rhabdomyosarcomas with emphasis on magnetic resonance imaging and a review of the literature. Yang WT, et al. **Pediatr Hematol Oncol** 1997 May–Jun;14(3):243–57

Cutaneous involvement in children with acute lymphoblastic leukemia or lymphoblastic lymphoma. The Children's Leukemia Cooperative Group of the European Organization of Research and Treatment of Cancer (EORTC). Millot F, et al. **Pediatrics** 1997 Jul;100(1):60–4

[Percutaneous gastrostomy in interventional radiology in cervico-facial oncology. Apropos of 174 cases] Le Ridant AM, et al. **Ann Otolaryngol Chir Cervicofac** 1996; 113(3):170–4 (Eng. Abstr.) **(Fre)**

[Warthin's tumor. Description of 2 cases] Rea N, et al. **Ann Ital Chir** 1996 Jul–Aug;67(4):537–47; discussion 547–8 (Eng. Abstr.) **(Ita)**

[Primary extranodal non-Hodgkin's lymphoma of the head and neck] Festini G, et al. **Recenti Prog Med** 1997 Apr; 88(4):169–72 (Eng. Abstr.) **(Ita)**

BLOOD

CYFRA 21-1 is not superior to SCC antigen and CEA in head and neck squamous cell cancer. Wollenberg B, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3117–24

Erythropoietin reduces anemia and transfusions after chemotherapy with paclitaxel and carboplatin. Dunphy FR, et al. **Cancer** 1997 Apr 15;79(8):1623–8

Soluble interleukin-2 receptor serum level as a predictor of locoregional control and survival for patients with head and neck carcinoma: results of a multivariate prospective study. Tartour E, et al. **Cancer** 1997 Apr 1;79(7):1401–8

Retroviral p15E-related serum factors and recurrence of head and neck cancer. Tas MP, et al. **Clin Otolaryngol** 1993 Aug;18(4):324–8

Circulating markers in squamous cell carcinoma of the head and neck: a review. Rassekh CH, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):23–8 (63 ref.)

Detection of MAGE-4 protein in sera of patients with head-and-neck squamous-cell carcinoma. Iwamoto O, et al. **Int J Cancer** 1997 Jan 27;70(3):287–90

Tumoral-reduced folates and clinical resistance to fluorouracil-based treatment in head and neck cancer patients. Chéradame S, et al. **J Clin Oncol** 1997 Jul; 15(7):2604–10

Platelet aggregation in head and neck tumors in China. Huang GW, et al. **Laryngoscope** 1997 Aug;107(8):1142–5

Evaluation of TATI and CYFRA 21-1 in patients with head and neck squamous cell carcinoma. Goumas PD, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):106–14

Trace elements in head and neck cancer patients: zinc status and immunologic functions. Prasad AS, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):624–9

Serum levels of intercellular adhesion molecule-1 in squamous cell carcinoma of the head and neck. Wollenberg B, et al. **Tumour Biol** 1997;18(2):88–94

BLOOD SUPPLY

Tumor vascularization, mitotic index, histopathologic grade, and DNA ploidy in the assessment of 114 head and neck squamous cell carcinomas. Klijanienko J, et al. **Cancer** 1995 Apr 1;75(7):1649–56

Results of surgery for head and neck tumors that involve the carotid artery at the skull base. Brisman MH, et al. **J Neurosurg** 1997 May;86(5):787–92

Re-evaluation of optimal dose of contrast medium for vascular enhancement in CT of the head and neck. Yoon DY, et al. **Neuroradiology** 1997 Jan;39(1):30–4

Non-invasive tumour perfusion measurement by dynamic CT: preliminary results. Hermans R, et al. **Radiother Oncol** 1997 Aug;44(2):159–62

CHEMISTRY

High rate of p53 overexpression in head and neck carcinomas detected with a refined ELISA. Maass JD, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):473–8

Lateral neck cysts--the branchial theory revisited. A critical review and clinicopathological study of 97 cases with special emphasis on cytokeratin expression. Regauer S, et al. **APMIS** 1997 Aug;105(8):623–30

Expression of galectins in head and neck squamous cell carcinoma. Gillenwater A, et al. **Head Neck** 1996 Sep–Oct; 18(5):422–32

Aberrant glycosylation based on the neo-expression of poly-N-acetyllactosamine structures in squamous cell carcinomas of the head and neck. Yokota M, et al. **Histochem J** 1997 Jul;29(7):555–62

Predictive value of the flow cytometric PCNA assay (proliferating cell nuclear antigen) in head and neck tumors after accelerated-hyperfractionated radiochemotherapy. Wenz F, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):771–6

Markers of radioresistance in squamous cell carcinomas of the head and neck: a clinicopathologic and immunohistochemical study. Raybaud-Diogène H, et al. **J Clin Oncol** 1997 Mar;15(3):1030–8

COMPLICATIONS

Intermittent airway obstruction in a child caused by a cervical lipoblastoma. Rasmussen IS, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):945–6

Hemangiomas of the head, neck, and chest with associated vascular and brain anomalies: a complex neurocutaneous syndrome. Pascual-Castroviejo I, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):461–71

Optic nerve decompression for compressive neuropathy secondary to neoplasia. Li KK, et al. **Arch Otolaryngol Head Neck Surg** 1997 Apr;123(4):425–9

Endovascular management of hemorrhage in patients with head and neck cancer. Morrissey DD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):15–9

Fourth branchial sinus causing recurrent cervical abscess. Burstin PP, et al. **Aust N Z J Surg** 1997 Feb–Mar; 67(2–3):119–22

Supportive use of megestrol acetate in patients with head and neck cancer during radio(chemo)therapy. Fietkau R, et al. **Eur J Cancer** 1997 Jan;33(1):75–9

Hypercalcemia associated with infantile fibrosarcoma producing parathyroid hormone-related protein. Michigami T, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1090–5

Acute tumor pain in patients with head and neck cancer treated with vinorelbine [letter] Kornek GV, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1593

Trigeminal neuralgia managed by a change in lifestyle. Davies AN, et al. **J Palliat Care** 1997 Summer;13(2):50–1

Development of primary hypothyroidism with antithyroglobulin, antiperoxidase, and blocking-type thyrotropin receptor antibodies after radiation therapy for neuroblastoma. Kikawa Y, et al. **J Pediatr** 1996 Dec; 129(6):909–12 (19 ref.)

Cervical neuroma presenting as a subarachnoid hemorrhage: case report. Corriero G, et al. **Neurosurgery** 1996 Nov; 39(5):1046–9

Nursing assessment and interventions minimize nutritional side effects for patients with head and neck cancer. Bodansky B, et al. **Oncol Nurs Forum** 1997 Jan–Feb; 24(1):23

Transdermal fentanyl in the long-term treatment of cancer pain: a prospective study of 50 patients with advanced cancer of the gastrointestinal tract or the head and neck region. Grond S, et al. **Pain** 1997 Jan;69(1–2):191–8

Endoscopic screening for esophageal cancer in 788 patients with head and neck cancers. Makuuchi H, et al. **Tokai J Exp Clin Med** 1996 Oct;21(3):139–45

Symptom management for incurable head and neck cancer. Kidder TM. **Wis Med J** 1997 Apr;96(4):19–24

[Retrocervical cystic hygroma and trisomy 22] Khalife H, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):87–8 **(Fre)**

[Syncopal neuralgia of the glossopharyngeal nerve caused by tumoral invasiveness. Therapeutic management. Apropos of 2 cases] Carrat X, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(2):137–40 (Eng. Abstr.) **(Fre)**

[Congenital subfold hemangioma in combination with hemangiomatosis of the head, face and neck] Vodolazov SI, et al. **Vestn Otorinolaringol** 1996 Sep–Oct;(5):35–6 (Eng. Abstr.) **(Rus)**

[Pilomatrixoma and myotonic dystrophy. Letter] Bettloch I, et al. **Rev Neurol** 1997 Feb;25(138):306–7 **(Spa)**

CONGENITAL

Hypercalcemia associated with infantile fibrosarcoma producing parathyroid hormone-related protein. Michigami T, et al. **J Clin Endocrinol Metab** 1996 Mar; 81(3):1090–5

Preoperative chemotherapy for congenital hemangiopericytoma and a review of the literature. del Rosario ML, et al. **J Pediatr Hematol Oncol** 1997 May–Jun; 19(3):247–50 (26 ref.)

MRI of congenital rhabdoid tumor of the neck: case report. Roy SS, et al. **Neuroradiology** 1996 May;38(4):373–4

A congenital neck mass [clinical conference] Toranzo JM, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Oct;82(4):363–4

DIAGNOSIS

Atypical lipoma as a potential pitfall in the cytodiagnosis of subcutaneous tumors. A report of two cases. Woyke S, et al. **Acta Cytol** 1997 May–Jun;41(3):897–902

Relationship between head and neck squamous cell carcinomas and fibrinolytic factors. Immunohistological study. Itaya T, et al. **Acta Otolaryngol Suppl (Stockh)** 1996; 525:113–9

Fluid-fluid levels in benign neurogenic tumors. Catalano P, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):385–7

Magnetization transfer contrast MR in lesions of the head and neck. Gillams AR, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):355–60

Rhabdomyosarcoma of the head and neck in adults: MR and CT findings. Lee JH, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1923–8

Proton MR spectroscopy of squamous cell carcinoma of the upper aerodigestive tract: in vitro characteristics. Mukherji SK, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1485–90

Proton MR spectroscopy of squamous cell carcinoma of the

extracranial head and neck: in vitro and in vivo studies. Mukherji SK, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul; 18(6):1057–72

MR characteristics of primary extramedullary plasmacytoma in the head and neck. Vogl TJ, et al. **AJNR Am J Neuroradiol** 1996 Aug;17(7):1349–54

Synovial sarcomas of the head and neck: MR findings. Hirsch RJ, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1185–8

Cysts of the head and neck sampled by fine–needle aspiration: sources of diagnostic difficulty [editorial; comment] Frierson HF Jr. **Am J Clin Pathol** 1996 Nov;106(5):559–60 . Comment on: Am J Clin Pathol 1996 Nov;106(2):615–9.

Head and neck pilomatrixoma. Rotenberg M, et al. **Am J Otolaryngol** 1996 Mar–Apr;17(2):133–5

Validation and clinical application of computer–combined computed tomography and positron emission tomography with 2–[18F]fluoro–2–deoxy–D–glucose head and neck images. Wong WL, et al. **Am J Surg** 1996 Dec; 172(6):628–32

Angiomatoid fibrous histiocytoma. Grossman LD, et al. **Ann Plast Surg** 1996 Jun;36(6):649–51

Nuclear matrix proteins as malignant markers in squamous cell carcinoma of the head and neck. McCaffery JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Mar; 123(3):283–8

The role of imaging in renal and extra–renal rhabdoid tumours. Roebuck DJ. **Australas Radiol** 1996 Aug; 40(3):310–8

The management of lumps in the neck. Fife DG. **Br J Hosp Med** 1997 May 21–Jun 3;57(10):522–6 (16 ref.)

Perinatal care of a woman with the prenatal diagnosis of a massive fetal neck tumour (cervical teratoma). O'Callaghan SP, et al. **Br J Obstet Gynaecol** 1997 Feb; 104(2):261–3

December 1996—cervicomedullary tumor. Hamilton RL. **Brain Pathol** 1997 Apr;7(2):841–2

Cervical mass lesion presenting as reflex sympathetic dystrophy of the hand. Bhatnagar A, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):101–4

Pictorial review: radiology of the carotid space. Chong VF, et al. **Clin Radiol** 1996 Nov;51(11):762–8 (12 ref.)

Magnetic resonance angiography in neck masses. Colletti PM, et al. **Comput Med Imaging Graph** 1996 Sep–Oct; 20(5):379–88

Imaging characteristics of aggressive fibromatosis in children. Petchprapa CN, et al. **Comput Med Imaging Graph** 1996 May–Jun;20(3):153–8

Fine needle aspiration (FNA) cytology of extra–adrenal paragangliomas. Rana RS, et al. **Cytopathology** 1997 Apr; 8(2):108–13

Cancer in the differential diagnosis of orofacial pain. Marshall JA, et al. **Dent Clin North Am** 1997 Apr;41(2):355–65

Panendoscopy as a screening procedure for simultaneous primary tumors in head and neck cancer. Dhooge IJ, et al. **Eur Arch Otorhinolaryngol** 1996;253(6):319–24

Circulating markers in squamous cell carcinoma of the head and neck: a review. Rassekh CH, et al. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):23–8 (63 ref.)

Perineural tumor extension along the trigeminal nerve: magnetic resonance imaging findings. Majoie CB, et al. **Eur J Radiol** 1997 May;24(3):191–205

First branchial complex anomalies: report of 3 cases. Van der Goten A, et al. **Eur Radiol** 1997;7(1):102–5

Palpation, ultrasound, and ultrasound–guided fine–needle aspiration cytology in the assessment of cervical lymph node status in head and neck cancer patients. Atula TS, et al. **Head Neck** 1996 Nov–Dec;18(6):545–51

Heterotopic salivary glands simulating bronchial cleft fistular in the lower neck. Hwang SM, et al. **J Dermatol** 1996 Apr; 23(4):287–9

Tumours and pseudotumorous lesions of the temporomandibular joint: a diagnostic challenge. Allias–Montmayeur F, et al. **J Laryngol Otol** 1997 Aug; 111(8):776–81 (27 ref.)

Paediatric neck masses—a diagnostic dilemma. Connolly AA, et al. **J Laryngol Otol** 1997 Jun;111(6):541–5

Iron oxide–enhanced MR lymphography: the evaluation of cervical lymph node metastases in head and neck cancer. Anzai Y, et al. **J Magn Reson Imaging** 1997 Jan–Feb; 7(1):75–81 (41 ref.)

Cervical dumbbell ganglioneuroma in an eighteen month old child. A case report. Maggi G, et al. **J Neurosurg Sci** 1995 Dec;39(4):257–60

Spheno–occipital chondroid chordoma. Drummond DS, et al. **J Otolaryngol** 1997 Jun;26(3):197–200

Potential early markers of carcinogenesis in the mucosa of the head and neck using exfoliative cytology [letter; comment] Ogden GR. **J Pathol** 1997 Mar;181(3):347–8. Comment on: J Pathol 1996 Mar;178(3):284–9.

Differentiation between schwannoma of the vagus nerve and schwannoma of the cervical sympathetic chain by imaging diagnosis. Furukawa M, et al. **Laryngoscope** 1996 Dec; 106(12 Pt 1):1548–52

Atypical facial pain and other pain syndromes. Differential diagnosis and treatment. Gouda JJ, et al. **Neurosurg Clin N Am** 1997 Jan;8(1):87–100 (67 ref.)

Diagnostic value of magnetic resonance imaging for malignant tumors in the oral and maxillofacial region. Nakayama E, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Dec;82(6):691–7

Head and neck cancer screening among 4611 tobacco users older than forty years. Prout MN, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):201–8

Anomalous articulation of the first rib mimicking supraclavicular neoplasia. Zrada SE, et al. **Otolaryngol Head Neck Surg** 1997 Mar;116(3):389–91 (14 ref.)

Fine–needle aspiration of the head and neck. Layfield LJ. **Pathology (Phila)** 1996;4(2):409–38 (77 ref.)

Intracranial route of a cervical neuroblastoma through skull base foramina. Goldberg RM, et al. **Pediatr Radiol** 1996 Oct;26(10):715–6

Synovial sarcoma in the prevertebral space of the neck: CT and MR findings. Mizutani H, et al. **Radiat Med** 1997 Mar–Apr;15(2):121–4

Non–nodal neck masses. Woodruff WW, et al. **Semin Ultrasound CT MR** 1997 Jun;18(3):182–204 (40 ref.)

Schwannoma of the neck simulating a thyroid nodule. Mikosch P, et al. **Thyroid** 1997 Jun;7(3):449–51

[Extensive cervical neurofibroma. Nosological problems. Apropos of a case] Kharoubi S. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(2):123–6 (Eng. Abstr.) **(Fre)**

[Rapidly enlarging occipital soft tissue tumor] Keiner S, et al. **HNO** 1997 May;45(5):396–7 **(Ger)**

[HIV–associated non–Hodgkin's lymphomas (HIV–NHL) in the area of the head–neck] Riederer A, et al. **HNO** 1997 Jan;45(1):11–6 (Eng. Abstr.) **(Ger)**

[Fibroblast growth factor (b–FGF) in serum and urine of patients with head–neck malignancies] Leunig A, et al. **Laryngorhinootologie** 1997 Jul;76(7):421–4 (Eng. Abstr.) **(Ger)**

[Magnetic resonance tomography of liposarcoma] Uhl M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):144–7 (Eng. Abstr.) **(Ger)**

[Initial diagnosis of melanoma metastasis to the spleen: case report of follow–up in atypical early invasion of the spleen] Hess U, et al. **Rontgenpraxis** 1996 Feb;49(2):23–24 **(Ger)**

[MRT and ultrasound in diagnosis of cervico–thoracic lymphangioma: a radio–histologic comparison] Theobald I, et al. **Rontgenpraxis** 1996 Jul;49(7):173–5 **(Ger)**

[Enhanced 3D subtraction MR angiography of head and neck tumors] Amanuma M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 May; 57(6):344–6 (Eng. Abstr.) **(Jpn)**

[Investigation of the usefulness of CYFRA 21–1 as a tumor marker in squamous cell carcinomas of the head and neck] Sano K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jul; 100(7):790–7 (Eng. Abstr.) **(Jpn)**

[Detection of human papilloma virus DNA and expression of p53 protein in patients with head and neck cancer] Takano I, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 May; 100(5):524–33 (Eng. Abstr.) **(Jpn)**

[A rare case of a preauricular fistula] Semkin VA, et al. **Stomatologiia (Mosk)** 1995;74(6):72–3 (Eng. Abstr.) **(Rus)**

[A giant histiocytoma of the occipital area] Makhmudov UB, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr–Jun; (2):29–31 (12 ref.) **(Rus)**

[Neck tumor suggesting malignancy: diagnostic and therapeutic approach] de Castro Carpeño J, et al. **Med Clin (Barc)** 1996 Jan 27;106(3):103–10 (39 ref.) **(Spa)**

[Anterior extramuscular neck mass] Pulido Rivas P, et al. **Rev Clin Esp** 1997 Feb;197(2):131–2 **(Spa)**

DIET THERAPY

[Nutritional assistance to patients during radiotherapy] Dias MC, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Mar–Apr;51(2):53–9 (Eng. Abstr.) **(Por)**

DRUG THERAPY

Feasibility of non–cisplatin–based induction chemotherapy and concurrent chemoradiotherapy in advanced head and neck cancer. Kumar S, et al. **Acta Oncol** 1996;35(6):721–5

Combined chemotherapy and radiation therapy in head and neck cancer. Nishiyama K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;524:79–82

Histological effect of intranodal injection of the streptococcal preparation OK–432 for cervical lymph node metastases of malignant head and neck tumors. Suzuki K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:125–8

Chemotherapy and granulocyte–colony stimulating factor for non–Hodgkin's lymphoma of the head and neck. Tsuge I, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:129–34

New cytostatic agents for the treatment of head and neck cancer. Devriendt D, et al. **Acta Otorhinolaryngol Belg** 1997;51(2):61–8 (39 ref.)

A phase II study of topotecan in patients with recurrent head and neck cancer. Identification of an active new agent. Robert F, et al. **Am J Clin Oncol** 1997 Jun;20(3):298–302

Combined concomitant boost radiotherapy and chemotherapy in stage III–IV head and neck carcinomas: a comparison of toxicity and treatment results with those observed after radiotherapy alone. Allal AS, et al. **Ann Oncol** 1997 Jul;8(7):681–4

Phase II trial of 13–cis retinoic acid plus interferon–alpha in advanced squamous cell carcinoma of head and neck, refractory to chemotherapy [letter] Cascinu S, et al. **Ann Oncol** 1996 Jul;7(5):538

Chemotherapy for symptom control in recurrent squamous cell carcinoma of the head and neck [see comments] Constenla DO, et al. **Ann Oncol** 1997 May;8(5):445–9. Comment in: Ann Oncol 1997 May;8(5):417–8.

Neo–adjuvant high–dose chemotherapy with autologous peripheral blood stem cell transplantation for inoperable relapse of nuchal liposarcoma resistant to standard–dose chemotherapy [letter] Fetscher S, et al. **Ann Oncol** 1996 Oct;7(8):871

Randomized trial of neoadjuvant chemotherapy with cisplatin plus 5–fluorouracil, with or without leucovorin, in locally advanced head and neck cancer [letter] Fonseca E, et al. **Ann Oncol** 1997 Jul;8(7):713–4

Paclitaxel by three–hour infusion and carboplatin in advanced carcinoma of nasopharynx and other sites of the head and neck. A phase II study conducted by the Hellenic Cooperative Oncology Group. Fountzilas G, et al. **Ann Oncol** 1997 May;8(5):451–5

Re–irradiation with concomitant chemotherapy of unresectable recurrent head and neck cancer: a potentially curable disease. Haraf DJ, et al. **Ann Oncol** 1996 Nov; 7(9):913–8

Does chemotherapy for head and neck cancer improve symptoms? [editorial; comment] Kies MS, et al. **Ann Oncol** 1997 May;8(5):417–8. Comment on: Ann Oncol 1997 May;8(5):445–9.

Phase II study on mitoxantrone in adenoid cystic carcinomas of the head and neck. EORTC Head and Neck Cancer Cooperative Group. Verweij J, et al. **Ann Oncol** 1996 Oct; 7(8):867–9

Chemotherapy of squamous cell carcinoma of head and neck: the future is now. Vokes EE, et al. **Ann Oncol** 1996 Jan; 7(1):15–29 (152 ref.)

Evaluation of Taxol in head and neck squamous carcinoma multicellular tumor spheroids. Griffon–Etienne G, et al. **Anticancer Drugs** 1997 Jan;8(1):48–55

Tufted angioma associated with platelet trapping syndrome: response to aspirin. Léauté–Labrèze C, et al. **Arch Dermatol** 1997 Sep;133(9):1077–9 (12 ref.)

Ototoxic effects of supradose cisplatin with sodium thiosulfate neutralization in patients with head and neck cancer. Madasu R, et al. **Arch Otolaryngol Head Neck Surg** 1997 Sep;123(9):978–81

Effect of sizofiran on regional lymph nodes in patients with head and neck cancer. Kano Y, et al. **Biotherapy** 1996; 9(4):257–62

Multicentre phase II pharmacological evaluation of rhizoxin. Eortc early clinical studies (ECSG)/pharmacology and molecular mechanisms (PAMM) groups. McLeod HL, et al. **Br J Cancer** 1996 Dec;74(12):1944–8

Hyperfractionated radiation therapy and 5–fluorouracil, cisplatin, and mitomycin–C (+/– granulocyte–colony stimulating factor) in the treatment of patients with locally advanced head and neck carcinoma. Abitbol AA, et al. **Cancer** 1997 Jul 15;80(2):266–76

Phase II study of induction and adjuvant chemotherapy for squamous cell carcinoma of the head and neck. A long–term analysis for the Illinois Cancer Center. Athanasiadis I, et al. **Cancer** 1997 Feb 1;79(3):588–94

A phase I report of paclitaxel dose escalation combined with a fixed dose of carboplatin in the treatment of head and neck carcinoma. Dunphy FR, et al. **Cancer** 1997 May 15; 79(10):2016–23

Vinorelbine, cisplatin, and 5–fluorouracil as initial treatment for previously untreated, unresectable squamous cell carcinoma of the head and neck: results of a phase II multicenter study. Gebbia V, et al. **Cancer** 1997 Apr 1; 79(7):1394–400

Correlation between computed tomographic density of lymph node metastases and response to cisplatin–based chemotherapy in patients with head and neck squamous cell carcinoma in an area in which betel quid chewing is prevalent. Wang HM, et al. **Cancer** 1996 Nov 1; 78(9):1972–9

Cisplatin pharmacokinetics and pharmacodynamics in patients with squamous–cell carcinoma of the head/neck or esophagus. Johnsson A, et al. **Cancer Chemother Pharmacol** 1996;39(1–2):25–33

Glutathione content but not gamma glutamyl cysteine synthetase mRNA expression predicts cisplatin resistance in head and neck cancer cell lines. Newkirk K, et al. **Cancer Chemother Pharmacol** 1997;40(1):75–80

Lack of effect of daily N–acetylcysteine supplementation on mutagen sensitivity. Cloos J, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):941–4

Concurrent chemoradiotherapy for salvage in relapsed squamous cell head and neck cancer. Tan EH, et al. **Cancer Invest** 1997;15(5):422–8

Cisplatin, fluorouracil, and L–leucovorin induction chemotherapy for locally advanced head and neck cancer: the M.D. Anderson Cancer Center experience [see comments] Papadimitrakopoulou VA, et al. **Cancer J Sci Am** 1997 Mar–Apr;3(2):92–9. Comment in: Cancer J Sci Am 1997 Mar–Apr;3(2):73–5.

Induction chemotherapy in the management of squamous cell cancer of the head and neck [comment] Posner MR, et al. **Cancer J Sci Am** 1997 Mar–Apr;3(2):73–5. Comment on: Cancer J Sci Am 1997 Mar–Apr;3(2):92–9.

Paclitaxel enhances in vitro radiosensitivity of squamous carcinoma cell lines of the head and neck. Leonard CE, et al. **Cancer Res** 1996 Nov 15;56(22):5198–204

Carboplatin, 5–fluorouracil and folinic acid: a 48–hour chemotherapy regimen in advanced and recurrent squamous carcinoma of the head and neck. Hatton MQ,

et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):380–3

Treatment of head and neck cancer: the role of chemotherapy. Adelstein DJ, et al. **Crit Rev Oncol Hematol** 1996 Oct;24(2):97–116 (215 ref.)

New drug therapy for squamous carcinoma of the head and neck. Murphy BA. **Curr Opin Oncol** 1996 May;8(3):221–6 (61 ref.)

Head and neck cancer: guidelines for chemotherapy. Catimel G. **Drugs** 1996 Jan;51(1):73–88 (114 ref.)

Carboplatin and 5-fluorouracil in squamous cell carcinoma of the head and neck previously responding to cisplatin and 5-fluorouracil [letter] Benasso M, et al. **Eur J Cancer** 1997 Feb;33(2):318–9

Single agent paclitaxel in advanced squamous cell head and neck carcinoma [letter] Gebbia V, et al. **Eur J Cancer** 1996 May;32A(5):901–2

Phase II study of weekly high-dose cisplatin for six cycles in patients with locally advanced squamous cell carcinoma of the head and neck. Planting AS, et al. **Eur J Cancer** 1997 Jan;33(1):61–5

Phase II trial of oxaliplatin (L-OHP) in advanced, recurrent and/or metastatic squamous cell carcinoma of the head and neck [letter] Degardin M, et al. **Eur J Cancer B Oral Oncol** 1996 Jul;32B(4):278–9

First-pass uptake of methotrexate after intra-arterial bolus injection in human head and neck cancers. Blöchl-Daum B, et al. **Eur J Clin Invest** 1996 May;26(5):371–5

Indium-111 bleomycin complex for radiochemotherapy of head and neck cancer--dosimetric and biokinetic aspects [published erratum appears in Eur J Nucl Med 1997 Feb;24(2):235] Kairemo KJ, et al. **Eur J Nucl Med** 1996 Jun;23(6):631–8

A case of intrauterine medical treatment for cystic hygroma. Watari H, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27;70(2):201–3

OK-432 therapy of lymphangiomas in children. Schmidt B, et al. **Eur J Pediatr** 1996 Aug;155(8):649–52

Superselective cisplatin (CDDP)-carboplatin (CBDCA) combined infusion for head and neck cancers. Imai S, et al. **Eur J Radiol** 1995 Dec 15;21(2):94–9

The role of chemotherapy in the treatment of head and neck cancer. Inuyama Y, et al. **Gan To Kagaku Ryoho** 1997 May; 24 Suppl 1:52–9 (11 ref.)

Neurotoxicity in a phase I trial of continuous infusion cisplatin with hyperfractionated radiotherapy for locally advanced head and neck cancer. Clamon GH, et al. **Head Neck** 1996 May-Jun;18(3):236–41

Relationship between psychological status and compliance in a sample of patients treated for cancer of the head and neck. McDonough EM, et al. **Head Neck** 1996 May-Jun; 18(3):269–76

Chemotherapy trials, head and neck cancer, and quality of life [letter; comment] Morton RP. **Head Neck** 1996 Jan-Feb;18(1):92–4. Comment on: Head Neck 1995 May-Jun;17(3):266–7.

Chemotherapy trials in head and neck cancer [letter; comment] Taylor SG 4th. **Head Neck** 1996 Jan-Feb; 18(1):91–2. Comment on: Head Neck 1994 Nov-Dec;16(6):529–30. Comment on: Head Neck 1994 Nov-Dec;16(6):530–2.

The effect of high dose vitamin A on the morphology and proliferative activity of xenograft lung and head and neck cancer. Mourad WA, et al. **In Vivo** 1996 May-Jun; 10(3):329–33

Extrapolated response dose as a potential tool in radiotherapy and chemo-radiotherapy of head and neck cancers. Hema V, et al. **Indian J Exp Biol** 1996 Sep;34(9):874–7

Combination of alpha-interferon 2a (alpha-IFN 2a) and 13-cis-retinoic acid (13cRA) in recurrent, pre-treated squamous-cell carcinoma of head and neck (SCCHN). Toma S, et al. **Int J Cancer** 1997 Feb 7;70(4):491–3

Radiotherapy and concomitant weekly 1-hour infusion of paclitaxel in the treatment of head and neck cancer--results from a Phase I trial. Hoffmann W, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):691–6

Efficacy of targeted supradose cisplatin and concomitant radiation therapy for advanced head and neck cancer: the Memphis experience. Robbins KT, et al. **Int J Radiat Oncol Biol Phys** 1997 May 1;38(2):263–71

Postoperative radiotherapy with concurrent cisplatin appears to improve locoregional control of advanced, resectable head and neck cancers: RTOG 88-24. Al-Sarraf M, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):777–82

An ECOG phase II study of amonafide in unresectable or recurrent carcinoma of the head and neck (PB390). Eastern Cooperative Oncology Group. Leaf AN, et al. **Invest New Drugs** 1997;15(2):165–72

Evaluation of topotecan in patients with recurrent for metastatic squamous cell carcinoma of the head and neck. A phase II Southwest Oncology Group study. Smith RE, et al. **Invest New Drugs** 1996;14(4):403–7

Chemosensitivity of head and neck squamous carcinoma cell lines is not primarily correlated with glutathione level but is modified by glutathione depletion. Bier H, et al. **J Cancer Res Clin Oncol** 1996;122(11):653–8

Cytokinetic effects of cisplatin on diverse human head and neck carcinomas in vitro: dependence on the tumor sensitivity to cisplatin. Jäckel MC, et al. **J Cancer Res Clin Oncol** 1996;122(10):596–602

Bleomycin, epirubicin, carboplatin (BECA) in the treatment of recurrent and/or metastatic squamous cell carcinoma of the head and neck. Adamo V, et al. **J Chemother** 1997 Feb;9(1):72–6

Modulation of cisplatin antitumor activity by short infusional high-dose cytosine arabinoside in advanced pretreated head and neck carcinoma: a phase II study. Jelic S, et al. **J Chemother** 1996 Aug;8(4):304–9

Tumoral-reduced folates and clinical resistance to fluorouracil-based treatment in head and neck cancer patients. Chéradame S, et al. **J Clin Oncol** 1997 Jul; 15(7):2604–10

Induction chemotherapy with cisplatin, fluorouracil, and high-dose leucovorin for squamous cell carcinoma of the head and neck: long-term results. Clark JR, et al. **J Clin Oncol** 1997 Sep;15(9):3100–10

Chemotherapy as an adjunct to radiation in the treatment of squamous cell carcinoma of the head and neck: results of the Yale Mitomycin Randomized Trials. Haffty BG, et al. **J Clin Oncol** 1997 Jan;15(1):268–76

Why has induction chemotherapy for advanced head and neck cancer become a United States community standard of practice? Harari PM. **J Clin Oncol** 1997 May; 15(5):2050–5

Neoplastic chemotherapy and head and neck cancer [editorial] Jones AS. **J Laryngol Otol** 1997 Jul; 111(7):607–10 (29 ref.)

Thymidylate synthase expression and response to neoadjuvant chemotherapy in patients with advanced head and neck cancer. Johnston PG, et al. **J Natl Cancer Inst** 1997 Feb 19;89(4):308–13

Molecular epidemiology and retinoid chemoprevention of head and neck cancer. Khuri FR, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):199–211 (116 ref.)

Preoperative chemotherapy for congenital hemangiopericytoma and a review of the literature. del Rosario ML, et al. **J Pediatr Hematol Oncol** 1997 May-Jun; 19(3):247–50 (26 ref.)

The difficulties and risks of surgical treatment of lymphangiomas in the cervicofacial region [letter; comment] Ng JW, et al. **J Pediatr Surg** 1996 Oct; 31(10):1463–4. Comment on: J Pediatr Surg 1995 Aug;30(8):1159–60.

Photodynamic therapy in selected cases at the ENT Clinic, Innsbruck: case reports. Ofner JG, et al. **J Photochem Photobiol B** 1996 Nov;36(2):185–7

Differential effects of retinoic acid and N-(4-hydroxyphenyl)retinamide on head and neck squamous cell carcinoma cells. Eicher SA, et al. **Laryngoscope** 1996 Dec;106(12 Pt 1):1471–5

The effects of 13-cis retinoic acid on squamous cell carcinoma proliferation and adhesion to extracellular matrix proteins. Speyer MT, et al. **Laryngoscope** 1997 Jan; 107(1):44–8

Long-term survival data and prognostic factors of a complete response to chemotherapy in patients with head and neck cancer treated with platinum-based induction chemotherapy: a Hellenic Co-operative oncology Group study. Fountzilas G, et al. **Med Pediatr Oncol** 1997 Jun; 28(6):401–10

Thymidylate synthase as a target for growth inhibition in methotrexate-sensitive and -resistant human head and neck cancer and leukemia cell lines. McGuire JJ, et al. **Oncol Res** 1997;9(3):139–47

Experience of Oncopaz Cooperative Group with oral fluoropyrimidines in tumors of the stomach, lung, head and neck, and breast. Feliu J, et al. **Oncology** 1997;54 Suppl 1:30–7

Paclitaxel administered over 3 h followed by cisplatin in patients with advanced head and neck squamous cell carcinoma: a clinical phase I study. Schilling T, et al. **Oncology** 1997 Mar-Apr;54(2):89–95

Docetaxel said to be highly effective and well tolerated in advanced head and neck cancer [news] **Oncology (Huntingt)** 1996 Mar;10(3):422

Intensive chemotherapy using cisplatin and fluorouracil followed by radiotherapy in advanced head and neck cancer. Zidan J, et al. **Oral Oncol** 1997 Mar;33(2):129–35

Elapsed radiation therapy treatment time as a predictor of survival in patients with advanced head and neck cancer who receive chemotherapy and radiation therapy. Alden ME, et al. **Radiology** 1996 Dec;201(3):675–80

Neoadjuvant chemotherapy with cisplatin and 5-fluorouracil in advanced squamous cell carcinoma of the head and neck: a randomized phase III study. Lewin F, et al. **Radiother Oncol** 1997 Apr;43(1):23–8

The Fox Chase Cancer Center and Free University Hospital Investigators' Workshop and Consensus Conference on Paclitaxel. Part 3: Gynecologic malignancies, head and neck cancer, and other tumor types. Marrakech, Morocco, January 18-20, 1996 and St Croix, Virgin Islands, March 13-16, 1996. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-1–S2-120; quiz S2-121–S2-123 (0 ref.)

Paclitaxel in head and neck and other cancers: future prospects. Aisner J, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-113–S2-115 (21 ref.)

A pilot trial of paclitaxel, carboplatin, and concurrent radiotherapy for unresectable squamous cell carcinoma of the head and neck. Conley B, et al. **Semin Oncol** 1997 Feb; 24(1 Suppl 2):S2-78–S2-80

Paclitaxel in head and neck cancer and other tumor types: chairmen's introduction. Cortés-Funes H, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-51–S2-57 (48 ref.)

Paclitaxel and carboplatin in recurrent or metastatic head and neck cancer: a phase II study. Fountzilas G, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-65–S2-67

Continuous infusion paclitaxel, 5-fluorouracil, and hydroxyurea with concomitant radiotherapy in patients with advanced or recurrent head and neck cancer. Haraf DJ, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-68–S2-71

Study of escalating doses of paclitaxel plus cisplatin in patients with inoperable head and neck cancer. Hitt R, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-58–S2-64

Paclitaxel in simultaneous radiochemotherapy of head and neck cancer: preclinical and clinical results. Hoffmann W, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-72–S2-77

Intensive radiation therapy concurrent with up to 7-week continuous-infusion paclitaxel for locally advanced solid tumors: phase I studies [published erratum appears in Semin Oncol 1997 Aug;24(4):499] Rosenthal DI, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-81–S2-84

Concurrent Taxol and split-course accelerated radiotherapy for advanced head and neck cancer. Plasswilm L, et al. **Strahlenther Onkol** 1996 Oct;172(10):573–9

Neoadjuvant chemotherapy with continuous infusion of cisplatin and fluorouracil in stage II-IV, M0 squamous cell carcinoma of the head and neck. Boni C, et al. **Tumori** 1996 Nov-Dec;82(6):567–72

Do the conventional clinicopathologic parameters predict for response and survival in head and neck cancer patients undergoing neoadjuvant chemotherapy? Fonseca E, et al. **Tumori** 1996 Nov-Dec;82(6):560–6

[Feasability of the dose adjustment of continuous infusion administration over 120 hours of 5-fluorouracil associated with cisplatin] Coudert B, et al. **Bull Cancer** 1996 Oct; 83(10):847–52 (Eng. Abstr.) **(Fre)**

[Predictive biological factors of response to radiotherapy and chemotherapy in carcinoma of the upper respiratory and digestive tracts] Bourhis J, et al. **Bull Cancer Radiother** 1996;83(4):308–13 (55 ref.) **(Fre)**

[Concomitant radiotherapy and chemotherapy in the treatment of cancers of the upper respiratory and digestive tracts] Calais G, et al. **Bull Cancer Radiother** 1996; 83(4):321–9 **(Fre)**

[Supportive treatment with megestrol acetate during radio(chemo)therapy in patients with tumors in the head-neck area. A randomized study] Fietkau R, et al. **Strahlenther Onkol** 1996 Mar;172(3):162–8 (Eng. Abstr.) **(Ger)**

[Systemic neoadjuvant chemotherapy in advanced head and neck tumors: a randomized study of the combination of 5-FU/carboplatin versus 5-FU/cisplatin] Starr S. **Strahlenther Onkol** 1996 Mar;172(3):173–5 **(Ger)**

[Comparison of effects between single vs five-day injection of granisetron for combination chemotherapy with cisplatin and 5-fluorouracil for head and neck cancer] Fujii M, et al. **Gan To Kagaku Ryoho** 1997 Jul;24(9):1095–101 (Eng. Abstr.) **(Jpn)**

[Combination chemotherapy with 5-FU and CDDP or CDDP analog for head and neck cancer] Fujii M, et al. **Gan To Kagaku Ryoho** 1996 Nov;23(13):1740–6 (Eng. Abstr.) **(Jpn)**

[Pathological evaluation of superselective one-shot intra-arterial infusion chemotherapy for head and neck tumors] Handa T, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1479–81 (Eng. Abstr.) **(Jpn)**

[Mechanism of cisplatin and peplomycin therapy on head and neck carcinoma] Kumazawa H, et al. **Hum Cell** 1996 Mar;9(1):69–74 (Eng. Abstr.) **(Jpn)**

[Chemotherapy with low-dose consecutive cisplatin (CDDP) for patients with recurrent and distant metastasis of head and neck cancer] Nishino H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Sep;99(9):1218–22 (Eng. Abstr.) **(Jpn)**

[Sequential chemotherapy and radiotherapy in the treatment of locally advanced carcinoma of the head and neck] Fonseca E, et al. **Acta Otorrinolaringol Esp** 1997 Mar; 48(2):127–32 (Eng. Abstr.) **(Spa)**

[Chemoprevention in cancer of the head and neck] Sánchez Hernández A, et al. **Acta Otorrinolaringol Esp** 1997 Jan-Feb;48(1):1–4 (30 ref.) (Eng. Abstr.) **(Spa)**

[A combination of radiotherapy and chemotherapy with platidiam and fluorouracil in patients with head and neck cancer] Shparyk IaV, et al. **Lik Sprava** 1996 Mar-Apr; (3-4):153–7 **(Ukr)**

ECONOMICS

Economic considerations in the care of patients with head and neck malignancies. Pfister DG, et al. **Curr Opin Oncol** 1997 May;9(3):241–6 (51 ref.)

ENZYMOLOGY

Expression of collagenase-3 (matrix metalloproteinase-13) in squamous cell carcinomas of the head and neck. Johansson N, et al. **Am J Pathol** 1997 Aug;151(2):499–508

Expression of matrix metalloproteinases and tissue inhibitor of metalloproteinases in head and neck squamous cell carcinoma. Charous SJ, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):271–8

Prognostic value of cathepsins B, H, L, D and their endogenous inhibitors stefins A and B in head and neck carcinoma. Budihna M, et al. **Biol Chem Hoppe Seyler** 1996 Jun;377(6):385–90

Increased expression of membrane type 1-matrix metalloproteinase in head and neck carcinoma. Yoshizaki T, et al. **Cancer** 1997 Jan 1;79(1):139–44

Invasion and metastasis. Boyd D. **Cancer Metastasis Rev** 1996 Mar;15(1):77–89 (95 ref.)

Telomerase activity in head and neck squamous cell carcinoma and adjacent tissues. Mao L, et al. **Cancer Res** 1996 Dec 15;56(24):5600–4

Overexpression of glutathione S-transferase pi messenger RNA and its relationship to gene amplification in head and neck squamous cell carcinoma. Pavelic ZP, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S144–6

Thymidylate synthase expression and response to neoadjuvant chemotherapy in patients with advanced head and neck cancer. Johnston PG, et al. **J Natl Cancer Inst** 1997 Feb 19;89(4):308–13

[Matrix metalloproteinase-2 concentrations in squamous cell carcinoma of the head and neck and its clinical significance] Kawata R, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Feb;99(2):299–305 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

From epithelial dysplasia to squamous carcinoma in the head and neck region: an epidemiological assessment. Bosatra A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:47–8

Squamous cell head and neck cancer in nonsmokers. Tan EH, et al. **Am J Clin Oncol** 1997 Apr;20(2):146–50

The relation between cancer incidence among relatives and the occurrence of multiple primary carcinomas following head and neck cancer. Bongers V, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug;5(8):595–8

Correlates of mutagen sensitivity in patients with upper aerodigestive tract cancer. Spitz MR, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Sep;6(9):687–92

The urban/rural divide in head and neck cancer--the effect of atmospheric pollution. Wake M. **Clin Otolaryngol** 1993 Aug;18(4):298–302

Head and neck osteosarcoma at the University of Washington. Oda D, et al. **Head Neck** 1997 Sep; 19(6):513–23

Advanced head and neck cancer: proportionally higher in southland than Otago. Woollons AC, et al. **N Z Med J** 1996 Nov 8;109(1033):428–30

Applications of molecular epidemiology to head and neck cancer. Hart TC. **Otolaryngol Clin North Am** 1997 Feb; 30(1):21–34 (73 ref.)

Feasibility of an epidemiologic study of submariners who received radium irradiation treatment. Kang HK. **Otolaryngol Head Neck Surg** 1996 Nov;115(5):433–7

Descriptive epidemiology of head and neck squamous cell carcinoma in Puerto Ricans. Almodovar J, et al. **P R Health Sci J** 1996 Dec;15(4):251–5

Influence of selection bias on dose-time analysis: a theoretical investigation. Taylor JM, et al. **Radiother Oncol** 1996 Sep; 40(3):259–70

[A statistical study of 206 patients suffering from malignant neoplasms of the cervicofacial area] Belli E, et al. **Minerva Stomatol** 1997 May;46(5):215–21 (Eng. Abstr.) **(Ita)**

[Cervical metastasis of squamous cell carcinoma of unknown origin: experience at Hospital de Sant Pau, Barcelona, Spain] Jürgens Mestre A, et al. **Acta Otorrinolaringol Esp** 1996 May-Jun;47(3):233–8 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Extranodal head and neck lymphomas in Guatemala: high frequency of Epstein-Barr virus-associated sinonasal lymphomas. van de Rijn M, et al. **Hum Pathol** 1997 Jul; 28(7):834–9

ETIOLOGY

Squamous cell head and neck cancer in nonsmokers. Tan EH, et al. **Am J Clin Oncol** 1997 Apr;20(2):146–50

Non-Hodgkin's lymphoma of the head and neck in association with HIV infection. Zapater E, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(2):69–72

GSTM1 gene polymorphism as a possible marker for susceptibility to head and neck cancers among Japanese smokers. Kihara M, et al. **Cancer Lett** 1997 Jan 30; 112(2):257–62

Molecular and cellular biomarkers for field cancerization and multistep process in head and neck tumorigenesis. Papadimitrakopoulou VA, et al. **Cancer Metastasis Rev** 1996 Mar;15(1):53–76 (237 ref.)

Etiology, prognosis and management of nuchal cystic hygroma: 25 new cases and literature review. Descamps P, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan; 71(1):3–10 (112 ref.)

Lack of serologic evidence for Helicobacter pylori infection in head and neck cancer. Grandis JR, et al. **Head Neck** 1997 May;19(3):216–8

Eruptive melanocytic nevi after Stevens-Johnson syndrome. Shoji T, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):337–9 (14 ref.)

Molecular epidemiology and retinoid chemoprevention of head and neck cancer. Khuri FR, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):199–211 (116 ref.)

Re: Bcl-2 Overexpression and smoking history in head and neck cancer [letter; comment] Ogden GR. **J Natl Cancer Inst** 1996 Dec 18;88(24):1864–6. Comment on: J Natl Cancer Inst 1995 Jul 5;87(13):1024–5.

Feasibility of an epidemiologic study of submariners who received radium irradiation treatment. Kang HK. **Otolaryngol Head Neck Surg** 1996 Nov;115(5):433–7

Radium dial workers: issues concerning dose response and modeling. Carnes BA, et al. **Radiat Res** 1997 Jun; 147(6):707–14

GENETICS

Expression of the MAGE-1, -2, -3, -4, and -6 genes in non-squamous cell carcinoma lesions of the head and neck. Lee KD, et al. **Acta Otolaryngol (Stockh)** 1996 Jul; 116(4):633–9

p53 mutations in human head and neck cancer cell lines. Kiuru A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:237–40

The role of p53 tumor suppressor gene in human head and neck tumorigenesis. Pavelic ZP, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:21–4 (41 ref.)

The bcl-2 gene status of human head and neck cancer cell lines. Salo A, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:233–6

Immunohistochemical vs molecular biology methods. Complementary techniques for effective screening of p53 alterations in head and neck cancer. Calzolari A, et al. **Am J Clin Pathol** 1997 Jan;107(1):7–11

Fine mapping of an imprinted gene for familial nonchromaffin paragangliomas, on chromosome 11q23. Baysal BE, et al. **Am J Hum Genet** 1997 Jan;60(1):121–32

Familial paragangliomas: linkage to chromosome 11q23 and clinical implications. Milunsky J, et al. **Am J Med Genet** 1997 Oct 3;72(1):66–70

Flow cytometry analysis of malignant tumors of the head and neck--differences between two methods in the recognition of aneuploidy. Wennerberg J, et al. **Anal Cell Pathol** 1996 Dec;12(3):125–36

Prognostic significance of Bcl-2 expression in localized squamous cell carcinoma of the head and neck. Friedman M, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):445–50

Role of DNA measurements of head and neck tumors. Milroy CM, et al. **Ann Otol Rhinol Laryngol** 1997 Sep;106(9):801–4

Restoration of the G1 checkpoint and the apoptotic pathway mediated by wild-type p53 sensitizes squamous cell carcinoma of the head and neck to radiotherapy. Chang EH, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):507–12

Frequent loss of heterozygosity on chromosome arm 18q in squamous cell carcinomas. Identification of 2 regions of loss--18q11.1-q12.3 and 18q21.1-q23. Jones JW, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):610–4

Overexpression of cyclin D1 indicates a poor prognosis in squamous cell carcinoma of the head and neck. Michalides RJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 May; 123(5):497–502

Deletion analysis of the p16/CDKN2 gene in head and neck squamous cell carcinoma using quantitative polymerase chain reaction method. Rawnsley JD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):863–7

Peritumoral angiogenesis in carcinomas of the head and neck. Mikami Y, et al. **Auris Nasus Larynx** 1996;23:57–62

Biologic implications of genetic changes in head and neck squamous cell carcinogenesis. Reid CB, et al. **Aust N Z J Surg** 1997 Jul;67(7):410–6 (72 ref.)

Familial risks of squamous cell carcinoma of the head and neck: retrospective case-control study. Foulkes WD, et al. **BMJ** 1996 Sep 21;313(7059):716–21

Amplification of cyclin D1 in squamous cell carcinoma of the head and neck and the prognostic value of chromosomal abnormalities and cyclin D1 overexpression. Akervall JA, et al. **Cancer** 1997 Jan 15;79(2):380–9

Association between human cancer and two polymorphisms occurring together in the p21Waf1/Cip1 cyclin-dependent kinase inhibitor gene. Facher EA, et al. **Cancer** 1997 Jun 15;79(12):2424–9

p53 mutations in head and neck squamous cell carcinomas from Sudanese snuff (toombak) users. Lazarus P, et al. **Cancer Detect Prev** 1996;20(4):270–8

p53 mutations in head and neck cancer: new data and evaluation of mutational spectra. Olshan AF, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):499–504

GSTM1 gene polymorphism as a possible marker for susceptibility to head and neck cancers among Japanese smokers. Kihara M, et al. **Cancer Lett** 1997 Jan 30; 112(2):257–62

Molecular staging of head and neck squamous carcinoma. Brennan JA, et al. **Cancer Metastasis Rev** 1996 Mar; 15(1):3–10 (46 ref.)

The clinical application of DNA content and kinetic parameters in the treatment of patients with squamous cell carcinomas of the head and neck. Ensley JF. **Cancer Metastasis Rev** 1996 Mar;15(1):133–41 (40 ref.)

Molecular and cellular biomarkers for field cancerization and multistep process in head and neck tumorigenesis. Papadimitrakopoulou VA, et al. **Cancer Metastasis Rev** 1996 Mar;15(1):53–76 (237 ref.)

Distinct patterns of chromosomal alterations in high- and low-grade head and neck squamous cell carcinomas. Bockmühl U, et al. **Cancer Res** 1996 Dec 1;56(23):5325–9

p53 mutations in squamous cell carcinoma of the head and neck predominate in a subgroup of former and present smokers with a low frequency of genetic instability. Liloglou T, et al. **Cancer Res** 1997 Sep 15;57(18):4070–4

Frequent abnormalities of FHIT, a candidate tumor suppressor gene, in head and neck cancer cell lines. Mao L, et al. **Cancer Res** 1996 Nov 15;56(22):5128–31

Regulation of CD44v6-containing isoforms during proliferation of normal and malignant epithelial cells. Soukka T, et al. **Cancer Res** 1997 Jun 1;57(11):2281–9

Transfer of chromosome 18 into human head and neck squamous carcinoma cells: evidence for tumor suppression by Smad4/DPC4. Reiss M, et al. **Cell Growth Differ** 1997 Apr;8(4):407–15

Clinical and molecular aspects of squamous cell carcinoma of the head and neck in the nonsmoker and nondrinker. Koch WM, et al. **Curr Opin Oncol** 1997 May;9(3):257–61 (17 ref.)

Biomarkers in head and neck carcinoma. Oh Y, et al. **Curr Opin Oncol** 1997 May;9(3):247–56 (109 ref.)

Genomic instability in head and neck cancer. Scholes AG, et al. **Curr Top Pathol** 1996;90:201–22 (115 ref.)

Cytokeratin 18 expression in squamous cell carcinoma of the head and neck. Balm AJ, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):227–33

In vitro studies of liposome-mediated gene transfer into head and neck cancer cell lines. Wollenberg B, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S130–2

Amplification of ERBB oncogenes in squamous cell carcinomas of the head and neck. Rodrigo JP, et al. **Eur J Cancer** 1996 Oct;32A(11):2004–10

Mutagen sensitivity: enhanced risk assessment of squamous cell carcinoma. Cloos J, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):367–72 (78 ref.)

Discordance of p53 status in matched primary tumours and metastases in head and neck squamous cell carcinoma patients. Kropveld A, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):388–93

Identification of clonal mutations in morphologically normal mucosa of the aerodigestive tract. Waridel F, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:67–73

Confinement of PGL, an imprinted gene causing hereditary paragangliomas, to a 2-cM interval on 11q22-q23 and exclusion of DRD2 and NCAM as candidate genes. van Schothorst EM, et al. **Eur J Hum Genet** 1996;4(5):267–73

Two regions of homozygosity on chromosome 3p in squamous cell carcinoma of the head and neck: comparison with cytogenetic analysis. Buchhagen DL, et al. **Head Neck** 1996 Nov-Dec;18(6):529–37

Synovial sarcoma of the head and neck: chromosomal translation (X;18) as a diagnostic aid. Cihak RA, et al. **Head Neck** 1997 Sep;19(6):549–53

Cyclin D1 abnormalities and tobacco exposure in head and neck squamous cell carcinoma. Davidson BJ, et al. **Head Neck** 1996 Nov-Dec;18(6):512–21

Loss of heterozygosity studies in squamous cell carcinomas of the head and neck. Ransom DT, et al. **Head Neck** 1996 May-Jun;18(3):248–53

Biomarkers of squamous cell carcinoma of the head and neck. Kim J, et al. **Histol Histopathol** 1997 Jan;12(1):205–18 (259 ref.)

Somatic mosaicism for deletion of the entire NF1 gene identified by FISH. Wu BL, et al. **Hum Genet** 1997 Feb; 99(2):209–13

DNA-damage processing in blood lymphocytes of head-and-neck-squamous-cell-carcinoma patients is dependent on tumor site. Cloos J, et al. **Int J Cancer** 1996 Sep 27;68(1):26–9

DNA ploidy and protein synthesis in squamous cell carcinoma cell lines of the head and neck. Görögh T, et al. **J Cancer Res Clin Oncol** 1997;123(1):39–44

Human collagenase-3 is expressed in malignant squamous epithelium of the skin. Airola K, et al. **J Invest Dermatol** 1997 Aug;109(2):225–31

Nuclear DNA content using computerized image cytometry of squamous cell carcinomas of the head and neck. Sarker SK, et al. **J Laryngol Otol** 1997 Jan;111(1):43–7

Genetic instability and the development of recurrence of primary tumor and second primary tumor during head and neck tumorigenesis. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S49–55

Genetic instabilities of chromosome 9, 17 and accumulation of p53 overexpression during multistage tumorigesis in head and neck cancer. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S104–12

Molecular biology of head and neck tumorigenesis: the role of p53 expression and genetic instability. Charuruks N, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S3–10 (43 ref.)

p53 mutation and locoregional treatment failure in head and neck squamous cell carcinoma. Koch WM, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1580–6

p53 gene mutations and HPV infection in primary head and neck squamous cell carcinomas do not correlate with overall survival: a long-term follow-up study. Riethdorf S, et al. **J Oral Pathol Med** 1997 Aug;26(7):315–21

The loss of heterozygosity in retinoblastoma and p53 suppressor genes as a prognostic indicator for head and neck cancer. Gleich LL, et al. **Laryngoscope** 1996 Nov; 106(11):1378–81

Genetic susceptibility to head and neck cancer: interaction between nutrition and mutagen sensitivity. Schantz SP, et al. **Laryngoscope** 1997 Jun;107(6):765–81

Mutation of p53 in squamous cell cancer of the head and neck: relationship to tumor cell proliferation. Wood NB, et al. **Laryngoscope** 1997 Jun;107(6):827–33

Functional characterization in vivo of mutant p53 molecules derived from squamous cell carcinomas of the head and neck. Cardinali M, et al. **Mol Carcinog** 1997 Feb;18(2):78–88

Functional characterization of p53 molecules expressed in human squamous cell carcinomas of the head and neck. Yeudall WA, et al. **Mol Carcinog** 1997 Feb;18(2):89–96

Infrequency of BRCA2 alterations in head and neck squamous cell carcinoma. Kirkpatrick H, et al. **Oncogene** 1997 May 8;14(18):2189–93

Evidence for the inactivation of multiple replicative lifespan genes in immortal human squamous cell carcinoma keratinocytes. Loughran O, et al. **Oncogene** 1997 Apr 24; 14(16):1955–64

Detection of the proto-oncogene eIF4E in surgical margins may predict recurrence in head and neck cancer. Nathan CA, et al. **Oncogene** 1997 Jul 31;15(5):579–84

Alterations of the p16 gene in head and neck cancer: frequency and association with p53, PRAD-1 and HPV. Olshan AF, et al. **Oncogene** 1997 Feb 20;14(7):811–8

Deletion mapping of chromosome 4 in head and neck squamous cell carcinoma. Pershouse MA, et al. **Oncogene** 1997 Jan 23;14(3):369–73

Field cancerisation and polyclonal p53 mutation in the upper aero-digestive tract. Waridel F, et al. **Oncogene** 1997 Jan 16;14(2):163–9

All-trans retinoic acid induced gene expression and growth inhibition in head and neck cancer cell lines. Cooper MP, et al. **Oral Oncol** 1997 Jul;33(4):270–4

Correlation between p53 mutation and cyclin D1 amplification in had and neck squamous cell carcinoma. Mineta H, et al. **Oral Oncol** 1997 Jan;33(1):42–6

Identification of seven differentially displayed transcripts in human primary and matched metastatic head and neck squamous cell carcinoma cell lines: implications in metastasis and/or radiation response. Patel S, et al. **Oral Oncol** 1997 May;33(3):197–203

Applications of molecular epidemiology to head and neck cancer. Hart TC. **Otolaryngol Clin North Am** 1997 Feb; 30(1):21–34 (73 ref.)

[Molecular biology in oncology of head-neck tumors] Löwenheim H. **HNO** 1997 Apr;45(4):185–6 **(Ger)**

[Reproducibility of nonradioactive DDRT-PCR method for detection of gene expression in squamous epithelial carcinoma cells of the upper aerodigestive tract] Görögh T, et al. **Laryngorhinootologie** 1997 Jan;76(1):42–5 (Eng. Abstr.) **(Ger)**

[Detection of an "autocrine loop" between EGF receptor and TGF-alpha in head-neck carcinomas] Issing WJ. **Laryngorhinootologie** 1997 Jul;76(7):415–20 (Eng. Abstr.) **(Ger)**

[Detection of differentially expressed genes in head-neck carcinomas] Werner JA, et al. **Laryngorhinootologie** 1997 May;76(5):300–7 (Eng. Abstr.) **(Ger)**

[Receptor mediated gene transfer in squamous epithelial carcinoma of the head-neck area] Wollenberg B, et al. **Laryngorhinootologie** 1997 Jul;76(7):411–4 (Eng. Abstr.) **(Ger)**

[Predictive and prognostic significance of PCNA, p53, bcl-2 and intratumor vessel density in radiochemotherapy of advanced head and neck tumors] Grabenbauer GG. **Strahlenther Onkol** 1997 Mar;173(3):174–5 **(Ger)**

[The DNA ploidy in squamous cell carcinomas of the head and neck with particular reference to prognosis] Boiocchi M, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):27–30 (17 ref.) **(Ita)**

[Oncogenes and tumor suppressor genes in head and neck squamous cell carcinomas] Maestro R, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):21–6 (56 ref.) **(Ita)**

[Oncogenes and oncosuppressor role in head and neck carcinomas] Pastore A, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):31–8 (92 ref.) **(Ita)**

HISTORY

The work of Henry T. Butlin, an early head and neck surgeon. Shedd DP. **Am J Surg** 1997 Mar;173(3):234–6

The British Association of Head and Neck Oncologists within the wider perspectives of the USA and Europe. Shaw HJ. **Ann R Coll Surg Engl** 1997 May;79(3 Suppl):111–4

[The 16th October 1846 and its outcome] Röse W. **Anaesthesiol Reanim** 1996;21(6):144–8 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Presence of the T-cell activation marker OX-40 on tumor infiltrating lymphocytes and draining lymph node cells from patients with melanoma and head and neck cancers. Vetto JT, et al. **Am J Surg** 1997 Sep;174(3):258–65

Interleukin-10 as a possible mediator of immunosuppressive effect in patients with squamous cell carcinoma of the head and neck. Avradopoulos K, et al. **Ann Surg Oncol** 1997 Mar;4(2):184–90

Anti-p53 antibodies in serum of smokers and head and neck cancer patients. Wollenberg B, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):413–8

Inhibition of lymphocyte function by head and neck carcinoma cell line soluble factors. Bailet JW, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):855–62

HLA class I alterations in head and neck squamous cell carcinoma. Murray AK, et al. **Biochem Soc Trans** 1997 May;25(2):266S

An immunohistochemical study of altered immunomodulatory molecule expression in head and neck squamous cell carcinoma. Vora AR, et al. **Br J Cancer** 1997;76(7):836–44

Possible involvement of tumour-derived interleukin-6 in dermatomyositis associated with cervical squamous cell carcinoma [letter] Nakamura S, et al. **Br J Dermatol** 1997 Mar;136(3):475–6

Suppression of natural killer cell activity by serum derived from head and neck cancer patients. Kumazawa H, et al. **Cancer Detect Prev** 1995;19(6):494–502

p53 serum antibodies as prognostic indicator in head and neck cancer. Werner JA, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):112–6

Interactions between autologous CD4+ and CD8+ T lymphocytes and human squamous cell carcinoma of the head and neck. Okada K, et al. **Cell Immunol** 1997 Apr 10;177(1):35–48

The role of apoptosis in antibody-dependent cell-mediated cytotoxicity against monolayers of human squamous cell carcinoma of the head and neck targets. Sung MW, et al. **Cell Immunol** 1996 Jul 10;171(1):20–9

The effects of thymostimulin on immunological function in patients with head and neck cancer. Kerrebijn JD, et al. **Clin Otolaryngol** 1996 Oct;21(5):455–62

Thymostimulin enhancement of T-cell infiltration into head and neck squamous cell carcinoma. Kerrebijn JD, et al. **Head Neck** 1996 Jul-Aug;18(4):335–42

CD99 reactivity in mesenchymal chondrosarcoma. Granter SR, et al. **Hum Pathol** 1996 Dec;27(12):1273–6

Zinc deficiency: changes in cytokine production and T-cell subpopulations in patients with head and neck cancer and in noncancer subjects. Prasad AS, et al. **Proc Assoc Am Physicians** 1997 Jan;109(1):68–77

Spontaneous human squamous cell carcinomas are killed by a human cytotoxic T lymphocyte clone recognizing a wild-type p53-derived peptide. Röpke M, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14704–7

[Illness stage and IgA-anti-Fab/F(ab')2 autoantibody activity in serum of patients with malignant head-neck tumors] Lorenz KJ, et al. **Laryngorhinootologie** 1996 Dec; 75(12):764–8 (Eng. Abstr.) **(Ger)**

METABOLISM

Kinetics of [methyl-11C]thymidine in patients with squamous cell carcinoma of the head and neck. van Eijkeren ME, et al. **Acta Oncol** 1996;35(6):737–41

Correlation of high lactate levels in head and neck tumors with incidence of metastasis. Walenta S, et al. **Am J Pathol** 1997 Feb;150(2):409–15

Decreased expression of transforming growth factor beta receptors on head and neck squamous cell carcinoma tumor cells. Eisma RJ, et al. **Am J Surg** 1996 Dec;172(6):641–5

Expression of the E-cadherin-catenin cell adhesion complex in primary squamous cell carcinomas of the head and neck and their nodal metastases. Andrews NA, et al. **Br J Cancer** 1997;75(10):1474–80

Retinoid metabolism and all-trans retinoic acid-induced growth inhibition in head and neck squamous cell carcinoma cell lines. Braakhuis BJ, et al. **Br J Cancer** 1997; 76(2):189–97

Cisplatin pharmacokinetics and pharmacodynamics in patients with squamous-cell carcinoma of the head/neck or esophagus. Johnsson A, et al. **Cancer Chemother Pharmacol** 1996;39(1-2):25–33

Biokinetics of indium-111-bleomycin complex in head and neck cancer--implementations for radiochemotherapy. Kairemo KJ, et al. **Cancer Detect Prev** 1997;21(1):83–90

Rapid elimination of mouse/human chimeric monoclonal antibodies in nude mice. van Gog FB, et al. **Cancer Immunol Immunother** 1997 Apr;44(2):103–11

Protein phosphatase-2A association with microtubules and its role in restricting the invasiveness of human head and neck squamous cell carcinoma cells. Meisinger J, et al. **Cancer Lett** 1997 Jan 1;111(1-2):87–95

Regulation of CD44v6-containing isoforms during proliferation of normal and malignant epithelial cells. Soukka T, et al. **Cancer Res** 1997 Jun 1;57(11):2281–9

Comparison of mathematical formulas used for estimation of DNA synthesis time of bromodeoxyuridine-labelled cell populations with different proliferative characteristics. Johansson MC, et al. **Cell Prolif** 1996 Oct;29(10):525–38

Adhesion properties, intermediate filaments and malignant behaviour of head and neck squamous cell carcinoma cells in vitro. Tomson AM, et al. **Clin Exp Metastasis** 1996 Nov; 14(6):501–11

Tumoral calcium pyrophosphate dihydrate deposition disease: cytopathologic findings on fine-needle aspiration. Allen EA, et al. **Diagn Cytopathol** 1996 Nov;15(4):349–51

Methodological variations for p53 detection by immunohistochemistry [letter; comment] Ogden GR. **Eur J Cancer B Oral Oncol** 1996 Sep;32B(5):365. Comment on: Eur J Cancer B Oral Oncol 1996 May;32B(3):143–9.

Is the binding of the lectin Helix pomatia agglutinin (HPA) of prognostic relevance in tumours of the upper aerodigestive tract? Schumacher DU, et al. **Eur J Surg Oncol** 1996 Dec;22(6):618–20

Biomarkers of squamous cell carcinoma of the head and neck. Kim J, et al. **Histol Histopathol** 1997 Jan;12(1):205–18 (259 ref.)

Differences in the pharmacokinetics of 13-cis retinoic acid in cancer patients. Waladkhani AR, et al. **Int J Cancer** 1997 Feb 7;70(4):494–5

DNA ploidy and protein synthesis in squamous cell carcinoma cell lines of the head and neck. Görögh T, et al. **J Cancer Res Clin Oncol** 1997;123(1):39–44

Altered p53 expression in Epstein Barr virus positive T cell lymphomas. Lee JH, et al. **J Korean Med Sci** 1995 Dec; 10(6):399–405

Prognostic factors for fibromatoses: a correlation of proliferation index, estrogen receptor, p53, retinoblastoma, and src gene products and clinical features with outcome. Moffatt EJ, et al. **J Surg Oncol** 1997 Jun;65(2):117–22

Correlated expression of glutathione S-transferase-pi and c-Jun or other oncogene products in human squamous cell carcinomas of the head and neck: relevance to relapse after radiation therapy. Miura K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):143–51

Quantitative analysis of cyclin D1 messenger RNA expression in head and neck squamous cell carcinomas. Monden N, et al. **Jpn J Cancer Res** 1997 Jul;88(7):660–8

Insulin secretion, glucose production, and insulin sensitivity in underweight and normal-weight volunteers, and in underweight and normal-weight cancer patients: a Clinical Research Center study. Tayek JA, et al. **Metabolism** 1997 Feb;46(2):140–5

Expression of a novel mRNA in human head and neck squamous cell carcinoma cells. Werner JA, et al. **Mol Pathol** 1997 Apr;50(2):82–6

Influence of hypoxia on tracer accumulation in squamous-cell carcinoma: in vitro evaluation for PET imaging. Minn H, et al. **Nucl Med Biol** 1996 Nov; 23(8):941–6

Suppressive factor or factors derived from head and neck squamous cell carcinoma induce apoptosis in activated lymphocytes. Billings KR, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):458–65

Preferential cytoplasmic localization of p34cdc2 in recurrent human squamous cell carcinoma after radiotherapy. Cohen-Jonathan E, et al. **Radiat Res** 1997 Mar; 147(3):277–83

MORTALITY

Search for prognostic factors in head and neck cancer. Kraxner H, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 527:145–9

Prognostic value of histologic findings in neck dissections for squamous cell carcinoma. Pinsolle J, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):145–8

The influence of alcohol consumption on worldwide trends in mortality from upper aerodigestive tract cancers in men. Macfarlane GJ, et al. **J Epidemiol Community Health** 1996 Dec;50(6):636–9

Does TANIS (T And N Integer Score) help predict survival? Hall SF, et al. **J Otolaryngol** 1997 Feb;26(1):8–12

Long-term survival data and prognostic factors of a complete response to chemotherapy in patients with head and neck cancer treated with platinum-based induction chemotherapy: a Hellenic Co-operative oncology Group study. Fountzilas G, et al. **Med Pediatr Oncol** 1997 Jun; 28(6):401–10

[Prognosis of thin cutaneous head and neck melanomas] Andersson AP, et al. **Ugeskr Laeger** 1997 Jun 2; 159(23):3583–5 (Eng. Abstr.) **(Dan)**

PATHOLOGY

Nodular cervical induration in a violinist. Report of a case with fine needle aspiration cytologic findings. Carabias E, et al. **Acta Cytol** 1996 Nov-Dec;40(6):1301–3

Solitary plasmacytoma of a cervical lymph node: regression after fine needle aspiration [letter] Clarke H, et al. **Acta Cytol** 1997 Jul-Aug;41(4):1244–6

Cytologic features of fibromatosis colli of infancy. Sauer T, et al. **Acta Cytol** 1997 May-Jun;41(3):633–5

IL-1 and TNF-alpha but no IL-2 expression is found in squamous cell carcinomas of the head and neck by RT-PCR. Knerer B, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):132–6

Lectin binding characteristics of squamous cell carcinomas of the head and neck. Lalwani AK, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):125–31

From epithelial dysplasia to squamous carcinoma of the head and neck region: evolutive and prognostic histopathological markers. Silvestri F, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;527:49–51

Ultrasound-guided 1.2-mm cutting-needle biopsies of head and neck tumours. Elvin A, et al. **Acta Radiol** 1997 May; 38(3):376–80

Localized myofibroblastic proliferation in the neck of a patient with an IgG myeloma. Reissenweber N, et al. **Am J Dermatopathol** 1997 Jun;19(3):266–70

Head and neck pilomatrixoma. Rotenberg M, et al. **Am J Otolaryngol** 1996 Mar-Apr;17(2):133–5

Role of arachidonic acid metabolites in tumor growth inhibition by nonsteroidal antiinflammatory drugs. Scioscia KA, et al. **Am J Otolaryngol** 1997 Jan-Feb;18(1):1–8

The extent of neck disease after regional failure during observation of the N0 neck. Andersen PE, et al. **Am J Surg** 1996 Dec;172(6):689–91

Supraspinal accessory lymph node metastases in supraomohyoid neck dissection. Kraus DH, et al. **Am J Surg** 1996 Dec;172(6):646–9

Supraomohyoid neck dissection. Spiro RH, et al. **Am J Surg** 1996 Dec;172(6):650–3

Metastatic head and neck cancer to the percutaneous endoscopic gastrostomy exit site: a case report and review

of the literature. Schneider AM, et al. **Am Surg** 1997 Jun; 63(6):481–6 (11 ref.)

Paraganglioma with pulmonary metastases: a case report. Tan KL, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):592–5

Lower cranial nerve schwannomas involving the jugular foramen. Mazzoni A, et al. **Ann Otol Rhinol Laryngol** 1997 May;106(5):370–9

A case of primary branchiogenic carcinoma [letter] Tsuchida Y, et al. **Ann Plast Surg** 1997 Apr;38(4):439–40

Analysis of prognostic factors for recurrence after neck dissection. Barzan L, et al.
Arch Otolaryngol Head Neck Surg 1996 Dec; 122(12):1299–302

Detection of cervical metastasis. A meta-analysis comparing computed tomography with physical examination. Merritt RM, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb; 123(2):149–52

Neurotropic cutaneous tumors of the head and neck. Osguthorpe JD, et al.
Arch Otolaryngol Head Neck Surg 1997 Aug;123(8):871–6

Fibromatosis colli. The utility of fine-needle aspiration in diagnosis. Schwartz RA, et al.
Arch Otolaryngol Head Neck Surg 1997 Mar;123(3):301–4

Peritumoral angiogenesis in carcinomas of the head and neck. Mikami Y, et al. **Auris Nasus Larynx** 1996;23:57–62

Expression of the E-cadherin-catenin cell adhesion complex in primary squamous cell carcinomas of the head and neck and their nodal metastases. Andrews NA, et al.
Br J Cancer 1997;75(10):1474–80

Extramedullary plasmacytoma of the head and neck region: clinicopathological correlation in 25 cases. Susnerwala SS, et al. **Br J Cancer** 1997;75(6):921–7

Madelung's disease: an uncommon disorder of unknown aetiology? Parmar C, et al. **Br J Oral Maxillofac Surg** 1996 Oct;34(5):467–70 (18 ref.)

Quantitative immunohistochemical analysis of transforming growth factor-alpha and epidermal growth factor receptor in patients with squamous cell carcinoma of the head and neck. Grandis JR, et al. **Cancer** 1996 Sep 15;78(6):1284–92

Correlation between computed tomographic density of lymph node metastases and response to cisplatin-based chemotherapy in patients with head and neck squamous cell carcinoma in an area in which betel quid chewing is prevalent. Wang HM, et al. **Cancer** 1996 Nov 1; 78(9):1972–9

Protein phosphatase-2A association with microtubules and its role in restricting the invasiveness of human head and neck squamous cell carcinoma cells. Meisinger J, et al.
Cancer Lett 1997 Jan 1;111(1–2):87–95

Invasion and metastasis. Boyd D. **Cancer Metastasis Rev** 1996 Mar;15(1):77–89 (95 ref.)

Molecular staging of head and neck squamous carcinoma. Brennan JA, et al. **Cancer Metastasis Rev** 1996 Mar; 15(1):3–10 (46 ref.)

Biological staging of head and neck cancer and its role in developing effective treatment strategies. Lydiatt WM, et al. **Cancer Metastasis Rev** 1996 Mar;15(1):11–25 (87 ref.)

Cell, tissue and organ culture as in vitro models to study the biology of squamous cell carcinomas of the head and neck. Sacks PG. **Cancer Metastasis Rev** 1996 Mar; 15(1):27–51 (272 ref.)

Evidence that loss of chromosome 18q is associated with tumor progression. Frank CJ, et al. **Cancer Res** 1997 Mar 1;57(5):824–7

Adhesion properties, intermediate filaments and malignant behaviour of head and neck squamous cell carcinoma cells in vitro. Tomson AM, et al. **Clin Exp Metastasis** 1996 Nov; 14(6):501–11

Assessment and management of lymph node metastases in the neck in head and neck cancer patients. Van den Brekel MW, et al. **Crit Rev Oncol Hematol** 1996 Apr;22(3):175–82 (71 ref.)

Comparative scoring by visual and image analysis of cells in human solid tumors labeled for proliferation markers. Weaver JR, et al. **Cytometry** 1997 Feb 1;27(2):189–99

Fine-needle aspiration of triton tumor: morphology, immunohistochemistry, electron microscopy, and cell image analysis. Abu-Farsakh H. **Diagn Cytopathol** 1996 Dec;15(5):435–8

Tumoral calcium pyrophosphate dihydrate deposition disease: cytopathologic findings on fine-needle aspiration. Allen EA, et al. **Diagn Cytopathol** 1996 Nov;15(4):349–51

False-negative diagnosis in fine-needle aspirations of squamous-cell carcinoma of head and neck. Pisharodi LR. **Diagn Cytopathol** 1997 Jul;17(1):70–3

Cytopathology of follicular dendritic cell tumors. Wright CA, et al. **Diagn Cytopathol** 1997 Aug;17(2):138–42

Synchronous and metachronous carcinomas of the esophagus and head and neck. Natsugoe S, et al. **Dis Esophagus** 1997 Apr;10(2):134–8

Chondroid syringoma of the head and neck: clinical management and literature review. Chen AH, et al.
Ear Nose Throat J 1996 Feb;75(2):104–8

Antiproliferative effects of the biologically active metabolite of vitamin D3 (1,25 [OH]2 D3) on head and neck squamous cell carcinoma cell lines. Kornfehl J, et al.
Eur Arch Otorhinolaryngol 1996;253(6):341–4

Application of the ATP-bioluminescence assay to thermosensitivity testing for head and neck cancer. Ohtsubo T, et al. **Eur Arch Otorhinolaryngol** 1996; 253(4–5):278–82

Detection of MET oncogene/hepatocyte growth factor receptor in lymph node metastases from head and neck squamous cell carcinomas. Galeazzi E, et al.
Eur Arch Otorhinolaryngol Suppl 1997;1:S138–43

Determination of radiosensitivity in established and primary squamous cell carcinoma cultures using the micronucleus assay. Champion AR, et al. **Eur J Cancer** 1997 Mar; 33(3):453–62

Autopsy findings in patients with head and neck squamous cell cancer and their therapeutic relevance. Slootweg PJ, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):413–5

Proliferation of epithelia of noninvolved mucosa in patients with head and neck cancer. Kotelnikov VM, et al.
Head Neck 1996 Nov–Dec;18(6):522–8

Intracranial inverting papilloma. Miller PJ, et al.
Head Neck 1996 Sep–Oct;18(5):450–3; discussion 454 (26 ref.)

Variability of tumor volumes in T3-staged head and neck tumors. Pameijer FA, et al. **Head Neck** 1997 Jan;19(1):6–13

Value of resection of pulmonary metastases in head and neck cancer patients. Wedman J, et al. **Head Neck** 1996 Jul–Aug; 18(4):311–6

Spindle cell lipoma—a pseudoangiomatous variant [letter] Richmond I, et al. **Histopathology** 1995 Aug;27(2):201

Rhabdomyosarcoma of head and neck—an analysis of 24 cases. Mehta S, et al. **Indian J Cancer** 1996 Mar;33(1):37–42

Rhabdoid phenotype in squamous carcinoma. A report of two cases. Pai SA, et al. **Indian J Cancer** 1996 Sep; 33(3):161–4

Aberrant p21(CIP1/WAF1) protein accumulation in head-and-neck cancer. Erber R, et al. **Int J Cancer** 1997 Aug 22;74(4):383–9

Increased recurrence and metastasis in patients whose primary head and neck squamous cell carcinomas secreted granulocyte-macrophage colony-stimulating factor and contained CD34+ natural suppressor cells. Young MR, et al. **Int J Cancer** 1997 Feb 20;74(1):69–74

Diagnosis and treatment of branchial cleft cysts and fistulae. A retrospective study of 183 patients. Agaton-Bonilla FC, et al. **Int J Oral Maxillofac Surg** 1996 Dec;25(6):449–52

Heterotopic salivary gland adenocarcinoma in the cervical region. Hata T, et al. **Int J Oral Maxillofac Surg** 1997 Aug; 26(4):290–2

Role of dynamic MRI in the evaluation of head and neck cancers treated with radiation therapy. Baba Y, et al.
Int J Radiat Oncol Biol Phys 1997 Mar 1;37(4):783–7

Enhanced control by radiotherapy of cervical lymph node metastases arising from nasopharyngeal carcinoma compared with nodal metastases from other head and neck squamous cell carcinomas. Chow E, et al.
Int J Radiat Oncol Biol Phys 1997 Aug 1;39(1):149–54

Metastatic carcinoma in the cervical lymph nodes from an unknown primary site: results of bilateral neck plus mucosal irradiation vs. ipsilateral neck irradiation. Reddy SP, et al.
Int J Radiat Oncol Biol Phys 1997 Mar 1;37(4):797–802

Predictive value of potential doubling time in head and neck cancer patients treated by conventional radiotherapy. Zackrisson B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):677–83

Radiologic assessment of intranodal vascularity in head and neck squamous cell carcinoma. Correlation with histologic vascular density. Lamer S, et al. **Invest Radiol** 1996 Nov; 31(11):673–9

Keratinization and necrosis. Morphologic aspects of lymphatic metastases in ultrasound. Mäurer J, et al.
Invest Radiol 1996 Sep;31(9):545–9

Granulocytic sarcoma in the absence of myeloid leukemia. Sisack MJ, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):308–11 (29 ref.)

Cytokinetic effects of cisplatin on diverse human head and neck carcinomas in vitro: dependence on the tumor sensitivity to cisplatin. Jäckel MC, et al.
J Cancer Res Clin Oncol 1996;122(10):596–602

Thyroid medullary carcinoma occurring laterally in the neck [letter; comment] Harach HR, et al.
J Clin Endocrinol Metab 1997 Mar;82(3):983–4. Comment on: J Clin Endocrinol Metab 1996 May;81(5):1784–6.

CT surveillance of the thorax in patients with squamous cell carcinoma of the head and neck: a preliminary experience. Mercader VP, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):412–7

Nuchal fibroma. Abraham Z, et al. **J Dermatol** 1997 Apr; 24(4):262–5

Myeloid differentiation treatment to diminish the presence of immune-suppressive CD34+ cells within human head and neck squamous cell carcinomas. Young MR, et al.
J Immunol 1997 Jul 15;159(2):990–6

Cutaneous pseudolymphoma. Naik R, et al.
J Indian Med Assoc 1996 Feb;94(2):81

Cystic hygromas of the head and neck. Godin DA, et al.
J La State Med Soc 1997 Jul;149(6):224–8 (14 ref.)

An unique tumour of the geniohyoid muscle: an intramuscular haemangioma. Harar RP, et al.
J Laryngol Otol 1997 Aug;111(8):769–71 (14 ref.)

Squamous cell carcinomas of the head and neck: descriptive analysis of 1293 cases. Kurtulmaz SY, et al.
J Laryngol Otol 1997 Jun;111(6):531–5

Primary branchial cleft carcinoma—a case report. Ohri AK, et al. **J Laryngol Otol** 1997 Jan;111(1):80–2

Distant metastases in terminal head and neck cancer patients. Talmi YP, et al. **J Laryngol Otol** 1997 May;111(5):454–8

Malignant transformation in a benign encapsulated schwannoma of retropharyngeal space: a case report. Supiyaphun P, et al. **J Med Assoc Thai** 1997 Aug; 80(8):540–6

Epithelioid sarcoma of the temporomandibular region: a case report. Vadmal M, et al. **J Oral Maxillofac Surg** 1997 Jul; 55(7):754–8

Does N stage predict survival? Hall SF, et al.
J Otolaryngol 1996 Oct;25(5):296–9

Retrospective DNA ploidy analysis by image and flow cytometry in head and neck cancer. Epp RA, et al.
Laryngoscope 1996 Oct;106(10):1306–13

Expression of the opioid growth factor, [Met5]-enkephalin, and the zeta opioid receptor in head and neck squamous cell carcinoma. Levin RJ, et al. **Laryngoscope** 1997 Mar; 107(3):335–9

Efficacy and cost-effectiveness of multihole fine-needle aspiration of head and neck masses. Mui S, et al.
Laryngoscope 1997 Jun;107(6):759–64

Second-trimester cystic hygroma: prognosis of septated and nonseptated lesions. Brumfield CG, et al.
Obstet Gynecol 1996 Dec;88(6):979–82

Inhibition of epidermal growth factor receptor gene expression and function decreases proliferation of head and neck squamous carcinoma but not normal mucosal epithelial cells. Rubin Grandis J, et al. **Oncogene** 1997 Jul 24;15(4):409–16

Follow-up study in head and neck cancer: cure rate according to tumor location and stage. Grau JJ, et al.
Oncology 1997 Jan–Feb;54(1):38–42

Detection of nodal micrometastases in head and neck cancer by serial sectioning and immunostaining. Ambrosch P, et al. **Oncology (Huntingt)** 1996 Aug;10(8):1221–6; discussion 1226, 1229

Does neck stage predict local control after irradiation for head and neck cancer? Mendenhall WM, et al.
Oncology (Huntingt) 1996 Mar;10(3):381–4; discussion: 384–96 (34 ref.)

Current concepts in surgical management of neck metastases from head and neck cancer. Stringer SP.
Oncology (Huntingt) 1995 Jun;9(6):547–54; discussion 554, 557–8 (47 ref.)

All-trans retinoic acid induced gene expression and growth inhibition in head and neck cancer cell lines. Cooper MP, et al. **Oral Oncol** 1997 Jul;33(4):270–4

Cisplatin and 5-fluorouracil for symptom control in advanced salivary adenoid cystic carcinoma. Hill ME, et al.
Oral Oncol 1997 Jul;33(4):275–8

Birt-Hogg-Dubé syndrome: a review and presentation of the first case with oral lesions. Nadershahi NA, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Apr;83(4):496–500 (19 ref.)

A congenital neck mass [clinical conference] Toranzo JM, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Oct;82(4):363–4

Tumour-associated tissue eosinophilia in head and neck squamous-cell carcinoma. Deron P, et al.
ORL J Otorhinolaryngol Relat Spec 1996 May–Jun; 58(3):167–70

Papillary carcinoma of the thyroid originating in a thyroglossal cyst. Report of a case and diagnostic criteria. Kojima Y, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Jul–Aug;58(4):238–41

Promoting effects of fibroblasts on growth and progression of head and neck carcinoma cells. Koldovsky P, et al.
ORL J Otorhinolaryngol Relat Spec 1996 Sep–Oct; 58(5):248–52

Fine-needle aspiration: clinical pearls. Cannon CR.
Otolaryngol Head Neck Surg 1997 Jul;117(1):120–1

Multilocular lymphoepithelial cyst in the thyroid accompanied with a minute thyroid carcinoma. Wtanabe I, et al. **Pathol Int** 1995 Dec;45(12):965–70

Test and teach. Number Eighty. Diagnosis: Malignant eccrine poroma of scalp. Ng WK. **Pathology** 1996 Jan; 28(1):39, 89

US-guided fine-needle aspiration cytology of neck nodes in patients with N0 disease [letter; comment] van den Brekel MW. **Radiology** 1996 Nov;201(2):580–1. Comment on: Radiology 1996 Mar;198(3):819–23.

Enrichment of tumor cells for cell kinetic analysis in human tumor biopsies using cytokeratin gating. Haustermans K, et al. **Radiother Oncol** 1996 Dec;41(3):237–48

In vivo cell kinetics in elderly patients affected by squamous cell carcinoma of the head and neck. Corvò R, et al.
Rays 1997 Jan–Mar;22(1 Suppl):69–72

Cervical lymphatics and squamous cell carcinoma of the head and neck: biologic significance and therapeutic considerations. Carlson GW. **Surg Oncol Clin N Am** 1996 Jan;5(1):65–77 (67 ref.)

Benign cervical teratoma in an adult: report of a case. Abe H, et al. **Surg Today** 1997;27(5):469–72 (21 ref.)

Do the conventional clinicopathologic parameters predict for response and survival in head and neck cancer patients undergoing neoadjuvant chemotherapy? Fonseca E, et al.
Tumori 1996 Nov–Dec;82(6):560–6

Biopsy of nonpalpable cervical lymph nodes: selection criteria for ultrasound-guided biopsy in patients with head and neck squamous cell carcinoma. Kruyt RH, et al.
Ultrasound Med Biol 1996;22(4):413–9

Juvenile rhabdomyosarcomas in two dogs. Kim DY, et al.
Vet Pathol 1996 Jul;33(4):447–50

[Latero-cervical tumors: apropos of a case of paraganglioma of the vagus nerve (letter)] Lefebvre P, et al.

Ann Med Interne (Paris) 1996;147(6):459–62 (20 ref.) **(Fre)**
[Metastatic melanoma of low Breslow thickness] Hundeiker M, et al. **Hautarzt** 1997 Mar;48(3):171–4 (Eng. Abstr.) **(Ger)**
[Indications for and accuracy of biopsy diagnosis in head–neck surgery] Fischer HP, et al. **Pathologe** 1997 Jan; 18(1):101–7 **(Ger)**
[Tumor of the follicular infundibulum. Study of determining follicular differentiation] Schirren CG, et al. **Pathologe** 1996 Nov;17(6):440–5 (Eng. Abstr.) **(Ger)**
[Steroid hormone receptors in squamous cell carcinoma of the head and neck] Budai B, et al. **Orv Hetil** 1997 Mar 23;138(12):723–7 (Eng. Abstr.) **(Hun)**
[Anatomic changes after radical surgery and reconstruction with pedunculated or revascularized flaps in advanced head and neck tumors: computerized tomography and magnetic resonance findings] Osti MF, et al. **Radiol Med (Torino)** 1997 Apr;93(4):352–7 (Eng. Abstr.) **(Ita)**
[Pathological evaluation of superselective one–shot intra–arterial infusion chemotherapy for head and neck tumors] Handa T, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1479–81 (Eng. Abstr.) **(Jpn)**
[Chemotherapy with low–dose consecutive cisplatin (CDDP) for patients with recurrent and distant metastasis of head and neck cancer] Nishino H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Sep;99(9):1218–22 (Eng. Abstr.) **(Jpn)**
[Multiple primaries in head and neck malignant neoplasms] Osuch–Wójcikiewicz E, et al. **Otolaryngol Pol** 1996; 50(6):587–91 (Eng. Abstr.) **(Pol)**
[Cervical lymphangioma in adults: report of three cases] Rodrigo Tapia JP, et al. **Acta Otorrinolaringol Esp** 1996 May–Jun;47(3):241–3 (Eng. Abstr.) **(Spa)**
[Carotid chemodectoma] Pons Rocher F, et al. **An Otorrinolaringol Ibero Am** 1997;24(1):15–25 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Pain experienced by patients with terminal head and neck carcinoma. Talmi YP, et al. **Cancer** 1997 Sep 15; 80(6):1117–23
Tumor angiogenesis. Petruzzelli GJ. **Head Neck** 1996 May–Jun;18(3):283–91 (49 ref.)
Neural generators of tibial nerve P30 somatosensory evoked potential studied in patients with a focal lesion of the cervicomedullary junction. Tinazzi M, et al. **Muscle Nerve** 1996 Dec;19(12):1538–48
The effect of local radiotherapy on kallikrein activity in saliva secreted by parotid gland in patients with head and neck cancers. Czokało M, et al. **Rocz Akad Med Bialymst** 1996; 41(2):441–51

PREVENTION & CONTROL

Clinical studies in head and neck cancer chemoprevention. Gonzalez PM, et al. **Cancer Metastasis Rev** 1996 Mar; 15(1):113–8 (35 ref.)
Outcomes of a placebo run–in period in a head and neck cancer chemoprevention trial. Hudmon KS, et al. **Control Clin Trials** 1997 Jun;18(3):228–40
Roles of retinoids and their nuclear receptors in the development and prevention of upper aerodigestive tract cancers. Lotan R. **Environ Health Perspect** 1997 Jun;105 Suppl 4:985–8 (52 ref.)
Efficacy of vitamin A in the prevention of loco–regional recurrence and second primaries in head and neck cancer. Jyothirmayi R, et al. **Eur J Cancer B Oral Oncol** 1996 Nov;32B(6):373–6
Biology of oral premalignant lesions: concepts and implications for chemoprevention. Papadimitrakopoulou VA, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:87–93
Chemoprevention of cancers of the oral cavity and the head and neck. Sankaranarayanan R, et al. **IARC Sci Publ** 1996; (136):13–25 (72 ref.)
Molecular epidemiology and retinoid chemoprevention of head and neck cancer. Khuri FR, et al. **J Natl Cancer Inst** 1997 Feb 5;89(3):199–211 (116 ref.)
[Chemoprevention in cancer of the head and neck] Sánchez Hernández A, et al. **Acta Otorrinolaringol Esp** 1997 Jan–Feb;48(1):1–4 (30 ref.) (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Sexuality in head and neck cancer patients. Monga U, et al. **Arch Phys Med Rehabil** 1997 Mar;78(3):298–304
Caring for head and neck oncology patients. Does social support lead to better quality of life? Mathieson CM, et al. **Can Fam Physician** 1996 Sep;42:1712–20
Widening perspectives: quality of life as a measure of outcome in the treatment of patients with cancers of the head and neck. Morris J. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):29–31 (19 ref.)
Relationship between psychological status and compliance in a sample of patients treated for cancer of the head and neck. McDonough EM, et al. **Head Neck** 1996 May–Jun; 18(3):269–76
Performance and quality of life outcome in patients completing concomitant chemoradiotherapy protocols for head and neck cancer. List MA, et al. **Qual Life Res** 1997 Apr;6(3):274–84
[An improved quality of life self–questionnaires specific for head and neck tumors] Schraub S, et al. **Rev Epidemiol Sante Publique** 1996 Aug;44(4):346–57 (Eng. Abstr.) **(Fre)**
[Value of psychosocial factors in the occurrence and management of cancer of the upper respiratory and digestive tracts] Loustalot B, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(2):97–104 (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

Branchial pouch sinus tract from the piriform fossa causing acute suppurative thyroiditis, neck abscess, or both: CT appearance and the use of air as a contrast agent. Bar–Ziv J, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1569–72
Head and neck case of the day. Dermoids of the submandibular space. Lanzieri CF. **AJR Am J Roentgenol** 1997 Jul;169(1):276, 280
The impact of routine CT of the chest on the diagnosis and management of newly diagnosed squamous cell carcinoma of the head and neck. Reiner B, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):667–71
Cervical thymic cysts. Jones JE, et al. **Ear Nose Throat J** 1996 Oct;75(10):678–80
A re–evaluation of imaging criteria to assess aggressive masticator space tumors. Som PM, et al. **Head Neck** 1997 Jul;19(4):335–41
The role of angiography in the evaluation of vascular and neoplastic disease in the external carotid artery circulation. Hu WY, et al. **Neuroimaging Clin N Am** 1996 Aug; 6(3):625–44 (37 ref.)
Asymmetrical or heterogeneous enhancement of the internal jugular veins in contrast–enhanced CT of the head and neck. Sakai O, et al. **Neuroradiology** 1997 Apr;39(4):292–5
Re–evaluation of optimal dose of contrast medium for vascular enhancement in CT of the head and neck. Yoon DY, et al. **Neuroradiology** 1997 Jan;39(1):30–4
[Anatomic changes after radical surgery and reconstruction with pedunculated or revascularized flaps in advanced head and neck tumors: computerized tomography and magnetic resonance findings] Osti MF, et al. **Radiol Med (Torino)** 1997 Apr;93(4):352–7 (Eng. Abstr.) **(Ita)**
[Improvement of longitudinal resolution by deblurring technique in helical CT of the head and neck] Sakai O, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):211–4 (Eng. Abstr.) **(Jpn)**
[Computer tomography of pathological neck lesions] Dullerud R, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10; 117(15):2191–3 (Eng. Abstr.) **(Nor)**

RADIONUCLIDE IMAGING

111In octreotide scintigraphy in the evaluation of head and neck lesions. Whiteman ML, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul;18(6):1073–80
Tc–99m DTPA delayed SPECT imaging of neurofibromatosis. Nguyen BD. **Clin Nucl Med** 1997 Feb; 22(2):132
A prospective study of PET–FDG imaging for the assessment of head and neck squamous cell carcinoma. Wong WL, et al. **Clin Otolaryngol** 1997 Jun;22(3):209–14
Positron emission tomographic imaging of head and neck lesions. Sakamoto H, et al. **Eur Arch Otorhinolaryngol Suppl** 1997;1:S123–6
Imaging and staging of head and neck cancer using a low pH In–111–bleomycin complex. Kairemo KJ, et al. **Eur J Cancer B Oral Oncol** 1996 Sep;32B(5):311–21
Detection of unknown primary head and neck tumors by positron emission tomography. Braams JW, et al. **Int J Oral Maxillofac Surg** 1997 Apr;26(2):112–5
Improvement of radiation treatment planning in squamous–cell head and neck cancer by immuno–SPECT. Adamietz IA, et al. **J Nucl Med** 1996 Dec;37(12):1942–6
Perfusion and blood–pool scintigraphy in the evaluation of head and neck hemangiomas. Murata Y, et al. **J Nucl Med** 1997 Jun;38(6):882–5
Thallium–201 SPECT in the diagnosis of head and neck cancer. Valdés Olmos RA, et al. **J Nucl Med** 1997 Jun; 38(6):873–9
Influence of hypoxia on tracer accumulation in squamous–cell carcinoma: in vitro evaluation for PET imaging. Minn H, et al. **Nucl Med Biol** 1996 Nov; 23(8):941–6
The contribution of immunoscintigraphy to the diagnosis of head and neck tumours. De Rossi G, et al. **Nucl Med Commun** 1997 Jan;18(1):10–6
The use of 201Tl SPET to predict the response to radiotherapy in patients with head and neck cancer. Nagamachi S, et al. **Nucl Med Commun** 1996 Nov; 17(11):935–42
Octreotide uptake in the head and neck. Horn JD, et al. **Semin Nucl Med** 1997 Jan;27(1):79–81

RADIOTHERAPY

Early and long–term results of an original accelerated radiation therapy schedule in head and neck carcinoma. Allal AS, et al. **Acta Oncol** 1997;36(3):267–71
Feasibility of non–cisplatin–based induction chemotherapy and concurrent chemoradiotherapy in advanced head and neck cancer. Kumar S, et al. **Acta Oncol** 1996;35(6):721–5
Head and neck cancer. Möller T. **Acta Oncol** 1996;35 Suppl 7:22–45
Microvascular free tissue transfers after preoperative irradiation in head and neck reconstructions. Aitasalo K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:247–50
Combined chemotherapy and radiation therapy in head and neck cancer. Nishiyama K, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;524:79–82
Local tumor control in radiation therapy of cancers in the head and neck. Levendag PC, et al. **Am J Clin Oncol** 1996 Oct;19(5):469–77
Can prophylactic application of immunoglobulin decrease radiotherapy–induced oral mucositis? Mose S, et al. **Am J Clin Oncol** 1997 Aug;20(4):407–11
Mortality and morbidity with intraoperative radiotherapy for head and neck cancer. Haller JR, et al. **Am J Otolaryngol** 1996 Sep–Oct;17(5):308–10
Hypoxic sensitizer and cytotoxin for head and neck cancer. Lee DJ, et al. **Ann Acad Med Singapore** 1996 May; 25(3):397–404 (42 ref.)
Combined concomitant boost radiotherapy and chemotherapy in stage III–IV head and neck carcinomas: a comparison of toxicity and treatment results with those observed after radiotherapy alone. Allal AS, et al. **Ann Oncol** 1997 Jul;8(7):681–4
Re–irradiation with concomitant chemotherapy of unresectable recurrent head and neck cancer: a potentially curable disease. Haraf DJ, et al. **Ann Oncol** 1996 Nov; 7(9):913–8
Interstitial iodine 125 in advanced recurrent squamous cell carcinoma of the head and neck with follow–up evaluation of carotid artery by ultrasound. Chen KY, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):955–61
The benefit of postoperative radiotherapy in metastatic basal cell carcinoma. Christie DR. **Aust N Z J Surg** 1997 Jul; 67(7):491–3
The Saudi experience with neutron therapy in locally advanced head and neck cancers. Flores AD, et al. **Bull Cancer Radiother** 1996;83 Suppl:106s–9s
The role of palliative radiotherapy in advanced head and neck cancer. Hodson DI, et al. **Can J Oncol** 1996 Feb;6 Suppl 1:54–60 (36 ref.)
Hyperfractionated radiation therapy and 5–fluorouracil, cisplatin, and mitomycin–C (+/– granulocyte–colony stimulating factor) in the treatment of patients with locally advanced head and neck carcinoma. Abitbol AA, et al. **Cancer** 1997 Jul 15;80(2):266–76
A randomized trial of a nonabsorbable antibiotic lozenge given to alleviate radiation–induced mucositis. Okuno SH, et al. **Cancer** 1997 Jun 1;79(11):2193–9
Concurrent chemoradiotherapy for salvage in relapsed squamous cell head and neck cancer. Tan EH, et al. **Cancer Invest** 1997;15(5):422–8
In vitro evaluation of Taxol combined with radiations in human squamous cell carcinoma spheroids. Griffon–Etienne G, et al. **Cancer Lett** 1996 Dec 3; 109(1–2):23–32
Paclitaxel enhances in vitro radiosensitivity of squamous carcinoma cell lines of the head and neck. Leonard CE, et al. **Cancer Res** 1996 Nov 15;56(22):5198–204
Laser treatment of complicated head and neck hemangiomas in infancy. Chang CJ, et al. **Chang Keng I Hsueh** 1996 Jun; 19(2):135–41
A modelled comparison of the effects of using different ways to compensate for missed treatment days in radiotherapy. Hendry JH, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(5):297–307
The treatment of recurrence following fast neutron therapy for head and neck malignancy. Asgarali S, et al. **Clin Otolaryngol** 1996 Jun;21(3):274–7
Late radiation change in the CNS: MR imaging following gadolinium enhancement. Norris AM, et al. **Clin Radiol** 1997 May;52(5):356–62
Status of accelerated fractionation radiotherapy in head and neck squamous cell carcinomas. Bourhis J, et al. **Curr Opin Oncol** 1997 May;9(3):262–6 (50 ref.)
No age limit for radical radiotherapy in head and neck tumours. Pignon T, et al. **Eur J Cancer** 1996 Nov; 32A(12):2075–81
Indium–111 bleomycin complex for radiochemotherapy of head and neck cancer—dosimetric and biokinetic aspects [published erratum appears in Eur J Nucl Med 1997 Feb;24(2):235] Kairemo KJ, et al. **Eur J Nucl Med** 1996 Jun;23(6):631–8
Evidence for early and persistent impairment of salivary gland excretion after irradiation of head and neck tumours. Liem IH, et al. **Eur J Nucl Med** 1996 Nov;23(11):1485–90
Adjuvant electron–beam IORT in high–risk head and neck cancer patients. Coleman CW, et al. **Front Radiat Ther Oncol** 1997;31:105–11
IORT in the management of locally advanced or recurrent head and neck cancer. Martínez–Monge R, et al. **Front Radiat Ther Oncol** 1997;31:122–5
IORT using electron beam or HDR brachytherapy for previously unirradiated head and neck cancers. Nag S, et al. **Front Radiat Ther Oncol** 1997;31:112–6
Neurotoxicity in a phase I trial of continuous infusion cisplatin with hyperfractionated radiotherapy for locally advanced head and neck cancer. Clamon GH, et al. **Head Neck** 1996 May–Jun;18(3):236–41
Postoperative radiation of open head and neck wounds—updated. Isaacs JH Jr, et al. **Head Neck** 1997 May;19(3):194–9
Super–supraglottic swallow in irradiated head and neck cancer patients. Logemann JA, et al. **Head Neck** 1997 Sep; 19(6):535–40

Hyperbaric oxygen therapy for wound complications after surgery in the irradiated head and neck: a review of the literature and a report of 15 consecutive patients. Neovius EB, et al. **Head Neck** 1997 Jul;19(4):315–22

Preservation of function by radiotherapy of small primary carcinomas preceded by neck dissection for extensive nodal metastases of the head and neck. Verschuur HP, et al. **Head Neck** 1996 May–Jun;18(3):277–82

Transferrin–liposome–mediated p53 sensitization of squamous cell carcinoma of the head and neck to radiation in vitro. Xu L, et al. **Hum Gene Ther** 1997 Mar 1;8(4):467–75

Capillary perfusion—a study in two groups of radiated patients for cancer of head and neck. Huilgol NG, et al. **Indian J Cancer** 1995 Jun;32(2):59–62

Extrapolated response dose as a potential tool in radiotherapy and chemo–radiotherapy of head and neck cancers. Hema V, et al. **Indian J Exp Biol** 1996 Sep;34(9):874–7

Hearing anomalies following radiation therapy for head and neck cancers. Varghese G, et al. **Indian J Exp Biol** 1996 Sep;34(9):878–9

Cell kinetics and tumor regression during radiotherapy in head and neck squamous–cell carcinomas. Corvò R, et al. **Int J Cancer** 1996 Oct 9;68(2):151–5

Implant rehabilitation of irradiated jaws: a preliminary report. Ali A, et al. **Int J Oral Maxillofac Implants** 1997 Jul–Aug; 12(4):523–6

Effects of irradiation on osseointegration before and after implant placement: a report of three cases. Granström G, et al. **Int J Oral Maxillofac Implants** 1997 Jul–Aug; 12(4):547–51

Feasibility and outcome of a progressively accelerated concomitant boost radiotherapy schedule for head and neck carcinomas. Allal AS, et al.
Int J Radiat Oncol Biol Phys 1997 Jul 1;38(4):685–9

Adequate irradiation of the internal jugular lymph node chain: technical considerations. Aref A, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 15;37(2):269–73

Role of dynamic MRI in the evaluation of head and neck cancers treated with radiation therapy. Baba Y, et al.
Int J Radiat Oncol Biol Phys 1997 Mar 1;37(4):783–7

Comparison of two head and neck immobilization systems. Bentel GC, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):867–73

Modulated beam conformal therapy for head and neck tumors. Boyer AL, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):227–36

Tumor hypoxia adversely affects the prognosis of carcinoma of the head and neck. Brizel DM, et al.
Int J Radiat Oncol Biol Phys 1997 May 1;38(2):285–9

Comparison between normal tissue reactions and local tumour control in head and neck cancer patients treated by definitive radiotherapy: regarding IJROBP 35:455–462; 1996 [letter; comment] Burnet NG, et al.
Int J Radiat Oncol Biol Phys 1997 Jul 15;38(5):1137–8. Comment on: Int J Radiat Oncol Biol Phys 1996 Jun 1;35(3):455–62.

In response to Drs. Goitein and Niemierko [letter; comment] Butler EB, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15;38(5):1138–9. Comment on: Int J Radiat Oncol Biol Phys 1996 Sep 1;36(2):519–22.

Clinical science and patient care: lessons from cooperative randomized clinical trials [editorial; comment] Cox JD.
Int J Radiat Oncol Biol Phys 1997 Sep 1;39(2):273–4. Comment on: Int J Radiat Oncol Biol Phys 1997 Sep 1;39(2):275–81.

Parotid gland sparing in patients undergoing bilateral head and neck irradiation: techniques and early results. Eisbruch A, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1; 36(2):469–80

Results of a European randomized trial of Etanidazole combined with radiotherapy in head and neck carcinomas [see comments] Eschwège F, et al.
Int J Radiat Oncol Biol Phys 1997 Sep 1;39(2):275–81. Comment in: Int J Radiat Oncol Biol Phys 1997 Sep 1;39(2):273–4.

Radiotherapy and concomitant weekly 1–hour infusion of paclitaxel in the treatment of head and neck cancer—results from a Phase I trial. Hoffmann W, et al.
Int J Radiat Oncol Biol Phys 1997 Jul 1;38(4):691–6

Effect of low–density lateral interfaces on soft–tissue doses. Hunt MA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):475–82

Efficacy and safety of granulocyte macrophage–colony stimulating factor (GM–CSF) on the frequency and severity of radiation mucositis in patients with head and neck carcinoma. Kannan V, et al.
Int J Radiat Oncol Biol Phys 1997 Mar 15;37(5):1005–10

Prognostic factors in adult soft–tissue sarcomas of the head and neck. Le QT, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):975–84

Sucralfate for radiation mucositis: results of a double–blind randomized trial. Meredith R, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 15;37(2):275–9

Effects of beam spoiler on radiation dose for head and neck irradiation with 10–MV photon beam. Niroomand–Rad A, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):935–40

Efficacy of postoperative radiation therapy for recurrent squamous cell carcinoma of the head and neck. Regine WF, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1; 39(2):297–302

Efficacy of targeted supradose cisplatin and concomitant radiation therapy for advanced head and neck cancer: the Memphis experience. Robbins KT, et al.
Int J Radiat Oncol Biol Phys 1997 May 1;38(2):263–71

Postoperative radiotherapy for head and neck squamous cell carcinomas: feasibility of a biphasic accelerated treatment schedule. Sanguineti G, et al.
Int J Radiat Oncol Biol Phys 1996 Dec 1;36(5):1147–53

Postoperative radiotherapy with concurrent cisplatin appears to improve locoregional control of advanced, resectable head and neck cancers: RTOG 88–24. Al–Sarraf M, et al.
Int J Radiat Oncol Biol Phys 1997 Mar 1;37(4):777–82

Hyperfractionated radiotherapy of human tumors: overview of the randomized clinical trials. Stuschke M, et al.
Int J Radiat Oncol Biol Phys 1997 Jan 15;37(2):259–67

Hypothyroidism after external radiotherapy for head and neck cancer. Tell R, et al.
Int J Radiat Oncol Biol Phys 1997 Sep 1;39(2):303–8

The use of radiologically placed gastrostomy tubes in head and neck cancer patients receiving radiotherapy. Tyldesley S, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1; 36(5):1205–9

Initial experience with intensity–modulated conformal radiation therapy for treatment of the head and neck region. Verellen D, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):99–114

Adaptive modification of treatment planning to minimize the deleterious effects of treatment setup errors. Yan D, et al.
Int J Radiat Oncol Biol Phys 1997 Apr 1;38(1):197–206

Predictive value of potential doubling time in head and neck cancer patients treated by conventional radiotherapy. Zackrisson B, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):677–83

Concomitant pilocarpine during head and neck irradiation is associated with decreased posttreatment xerostomia. Zimmerman RP, et al. **Int J Radiat Oncol Biol Phys** 1997 Feb 1;37(3):571–5

Manifestations and treatment of xerostomia and associated oral effects secondary to head and neck radiation therapy. Garg AK, et al. **J Am Dent Assoc** 1997 Aug;128(8):1128–33 (40 ref.)

Chemotherapy as an adjunct to radiation in the treatment of squamous cell carcinoma of the head and neck: results of the Yale Mitomycin Randomized Trials. Haffty BG, et al. **J Clin Oncol** 1997 Jan;15(1):268–76

Markers of radioresistance in squamous cell carcinomas of the head and neck: a clinicopathologic and immunohistochemical study. Raybaud–Diogène H, et al. **J Clin Oncol** 1997 Mar;15(3):1030–8

Parotid sparing study in head and neck cancer patients receiving bilateral radiation therapy: one–year results. Ship JA, et al. **J Dent Res** 1997 Mar;76(3):807–13

Improvement of radiation treatment planning in squamous–cell head and neck cancer by immuno–SPECT. Adamietz IA, et al. **J Nucl Med** 1996 Dec;37(12):1942–6

Dermatography for the treatment of telangiectasis after radiation therapy in the head and neck: report of cases. van der Velden EM, et al. **J Oral Maxillofac Surg** 1997 Jan;55(1):75–6

Clinical indications for brachytherapy. Erickson B, et al.
J Surg Oncol 1997 Jul;65(3):218–27 (76 ref.)

Pentoxifylline in the treatment of radiation–related soft tissue injury: preliminary observations. Futran ND, et al.
Laryngoscope 1997 Mar;107(3):391–5

Comparison of Super Stuff and paraffin wax bolus in radiation therapy of irregular surfaces. Humphries SM, et al.
Med Dosim 1996 Fall;21(3):155–7

Ultrasonography for thyroid screening after head and neck irradiation in childhood cancer survivors. Crom DB, et al. **Med Pediatr Oncol** 1997 Jan;28(1):15–21

The use of 201Tl SPET to predict the response to radiotherapy in patients with head and neck cancer. Nagamachi S, et al. **Nucl Med Commun** 1996 Nov; 17(11):935–42

p53 mediated sensitization of squamous cell carcinoma of the head and neck to radiotherapy. Pirollo KF, et al.
Oncogene 1997 Apr 10;14(14):1735–46

Intra–operative radiotherapy—5 years of experience in the palliative treatment of recurrent and advanced head and neck cancers. Spaeth J, et al. **Oncology** 1997 May–Jun; 54(3):208–13

Severity of xerostomia reduced when Salagen tablets taken during radiation therapy [news] **Oncology (Huntingt)** 1996 Dec;10(12):1837

Response of the normal eye to high dose radiotherapy [see comments] Parsons JT, et al. **Oncology (Huntingt)** 1996 Jun; 10(6):837–47; discussion 847–8, 851–2 (39 ref.). Comment in: Oncology (Huntingt) 1996 Jul;10(7):981–2, 984.

Intensive chemotherapy using cisplatin and fluorouracil followed by radiotherapy in advanced head and neck cancer. Zidan J, et al. **Oral Oncol** 1997 Mar;33(2):129–35

Long–term changes induced by high–dose irradiation of the head and neck region: imaging findings. Becker M, et al. **Radiographics** 1997 Jan–Feb;17(1):5–26

Elapsed radiation therapy treatment time as a predictor of survival in patients with advanced head and neck cancer who receive chemotherapy and radiation therapy. Alden ME, et al. **Radiology** 1996 Dec;201(3):675–80

Locally advanced head and neck cancer: combined chemotherapy and radical radiation therapy for organ and function preservation (interim report). Cheung AY, et al. **Radiology** 1997 Jul;204(1):207–10

Anemia is associated with lower local–regional control and survival after radiation therapy for head and neck cancer: a prospective study. Dubray B, et al. **Radiology** 1996 Nov; 201(2):553–8

Accelerated fractionation: what is the price for speeding? [editorial; comment] Ang KK. **Radiother Oncol** 1997 Aug; 44(2):97–9. Comment on: Radiother Oncol 1997 Aug;44(2):111–21. Comment on: Radiother Oncol 1997 Aug;44(2):123–36.

Repair capacity and kinetics for human mucosa and epithelial tumors in the head and neck: clinical data on the effect of changing the time interval between multiple fractions per day in radiotherapy. Bentzen SM, et al.
Radiother Oncol 1996 Feb;38(2):89–101 (40 ref.)

Effect of megestrol acetate and prepulsid on nutritional improvement in patients with head and neck cancers undergoing radiotherapy. Chen HC, et al.
Radiother Oncol 1997 Apr;43(1):75–9

Granulocyte–macrophage colony–stimulating factor mouthwashes improve radiation induced mucositis in AIDS patients [letter] de la Torre A, et al. **Radiother Oncol** 1997 May;43(2):229–30

A randomised multicentre trial of CHART versus conventional radiotherapy in head and neck cancer [see comments] Dische S, et al. **Radiother Oncol** 1997 Aug; 44(2):123–36. Comment in: Radiother Oncol 1997 Aug;44(2):97–9.

Importance of overall treatment time for the outcome of radiotherapy of advanced head and neck carcinoma: dependency on tumor differentiation. Hansen O, et al.
Radiother Oncol 1997 Apr;43(1):47–51

Accelerated fractionation (AF) compared to conventional fractionation (CF) improves loco–regional control in the radiotherapy of advanced head and neck cancers: results of the EORTC 22851 randomized trial [see comments] Horiot JC, et al. **Radiother Oncol** 1997 Aug;44(2):111–21 . Comment in: Radiother Oncol 1997 Aug;44(2):97–9.

A randomised trial of accelerated versus conventional radiotherapy in head and neck cancer. Jackson SM, et al.
Radiother Oncol 1997 Apr;43(1):39–46

Radiation therapy alone or with concurrent low–dose daily either cisplatin or carboplatin in locally advanced unresectable squamous cell carcinoma of the head and neck: a prospective randomized trial. Jeremic B, et al.
Radiother Oncol 1997 Apr;43(1):29–37

Administration of nicotinamide during a five– to seven–week course of radiotherapy: pharmacokinetics, tolerance, and compliance. Kaanders JH, et al. **Radiother Oncol** 1997 Apr; 43(1):67–73

Entrance and exit dose measurements with semiconductors and thermoluminescent dosemeters: a comparison of methods and in vivo results. Loncol T, et al.
Radiother Oncol 1996 Nov;41(2):179–87

Randomized clinical trial on accelerated 7 days per week fractionation in radiotherapy for head and neck cancer. Preliminary report on acute toxicity. Maciejewski B, et al. **Radiother Oncol** 1996 Aug;40(2):137–45

Pilot study of intraoperative high dose rate brachytherapy for head and neck cancer. Nag S, et al.
Radiother Oncol 1996 Nov;41(2):125–30

Pretreatment oxygenation predicts radiation response in advanced squamous cell carcinoma of the head and neck. Nordsmark M, et al. **Radiother Oncol** 1996 Oct;41(1):31–9

Treatment portals for elective radiotherapy of the neck: an inventory in The Netherlands. Nowak P, et al.
Radiother Oncol 1997 Apr;43(1):81–6

Constraints in the use of repair half times and mathematical modelling for the clinical application of HDR and PDR treatment schedules as an alternative for LDR brachytherapy. Pop LA, et al. **Radiother Oncol** 1996 Feb; 38(2):153–62

In vitro radiosensitivity of primary human fibroblasts. Lack of correlation with acute radiation toxicity in patients with head and neck cancer. Rudat V, et al. **Radiother Oncol** 1997 May;43(2):181–8

Influence of selection bias on dose–time analysis: a theoretical investigation. Taylor JM, et al. **Radiother Oncol** 1996 Sep; 40(3):259–70

How much could the radiotherapy dose be altered for individual patients based on a predictive assay of normal–tissue radiosensitivity? Tucker SL, et al.
Radiother Oncol 1996 Feb;38(2):103–13

Three dimensional variability in patient positioning using bite block immobilization in 3D–conformal radiation treatment for ENT–tumors. Willner J, et al. **Radiother Oncol** 1997 Jun;43(3):315–21

Quality assurance in radiotherapy of head and neck tumors. Ausili–Cefaro G, et al. **Rays** 1996 Oct–Dec;21(4):600–11 **(Eng, Ita)**

Radiation therapy in the elderly with head and neck cancer. Olmi P, et al. **Rays** 1997 Jan–Mar;22(1 Suppl):77–81

The effect of local radiotherapy on kallikrein activity in saliva secreted by parotid gland in patients with head and neck cancers. Czokało M, et al. **Rocz Akad Med Bialymst** 1996; 41(2):441–51

A pilot trial of paclitaxel, carboplatin, and concurrent radiotherapy for unresectable squamous cell carcinoma of the head and neck. Conley B, et al. **Semin Oncol** 1997 Feb; 24(1 Suppl 2):S2–78–S2–80

Paclitaxel in simultaneous radiochemotherapy of head and neck cancer: preclinical and clinical results. Hoffmann W, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2–72–S2–77

Applications of brachytherapy in head and neck cancer. Harrison LB. **Semin Surg Oncol** 1997 May–Jun;

13(3):177–84 (25 ref.)

Inverse radiotherapy planning for a concave-convex PTV in cervical and upper mediastinal regions. Simulation of radiotherapy using an Alderson-RANDO phantom. Planning target volume. Esik O, et al.
Strahlenther Onkol 1997 Apr;173(4):193–200

Radiotherapy for carcinomas of the head and neck in elderly patients. Huguenin P, et al. **Strahlenther Onkol** 1996 Sep; 172(9):485–8

Concurrent Taxol and split-course accelerated radiotherapy for advanced head and neck cancer. Plasswilm L, et al. **Strahlenther Onkol** 1996 Oct;172(10):573–9

Radiation-induced xerostomia: pathophysiology, clinical course and supportive treatment [see comments] Guchelaar HJ, et al. **Support Care Cancer** 1997 Jul;5(4):281–8 (57 ref.) . Comment in: Support Care Cancer 1997 Jul;5(4):261–2.

Nonstandard fractionation schedules in radiation therapy of head and neck cancer: a review. Olmi P, et al. **Tumori** 1997 May-Jun;83(3):633–42 (70 ref.)

[Predictive biological factors of response to radiotherapy and chemotherapy in carcinoma of the upper respiratory and digestive tracts] Bourhis J, et al. **Bull Cancer Radiother** 1996;83(4):308–13 (55 ref.) **(Fre)**

[Concomitant radiotherapy and chemotherapy in the treatment of cancers of the upper respiratory and digestive tracts] Calais G, et al. **Bull Cancer Radiother** 1996; 83(4):321–9 **(Fre)**

[Hyperfractionated and accelerated radiotherapy in head and neck cancers: results of the EORTC trials and impact on clinical practice] Horiot JC, et al.
Bull Cancer Radiother 1996;83(4):314–20 **(Fre)**

[Hyperfractionated reirradiation after salvage surgery in cervico-facial carcinoma. Result of a pilot study in 14 patients] Benchalal M, et al. **Cancer Radiother** 1997; 1(1):68–73 (53 ref.) (Eng. Abstr.) **(Fre)**

[European Society for Therapeutic Radiology and Oncology (ESTRO) Vienna (Austria), September 23–26 1996] Simon JM. **Cancer Radiother** 1997;1(1):94–8 **(Fre)**

[Accelerated hyperfractionated simultaneous radiochemotherapy in advanced head-neck carcinomas in comparison: split course and concomitant boost concept] Dietz A, et al. **Laryngorhinootologie** 1996 Dec; 75(12):745–53 (Eng. Abstr.) **(Ger)**

[Palliative intraoperative irradiation of recurrent neck lymph node metastases in the head and neck area] Spaeth J, et al. **Laryngorhinootologie** 1997 Jan;76(1):36–41 (Eng. Abstr.) **(Ger)**

[Image-oriented planning of minimally invasive conformal irradiation of the head-neck area] Debus J, et al.
Radiologe 1996 Sep;36(9):732–6 (Eng. Abstr.) **(Ger)**

[Outcome of CHART radiotherapy in squamous cell carcinoma of the head and neck and in non-small cell bronchial carcinoma] Baumann M, et al.
Strahlenther Onkol 1997 Jun;173(6):341–3 **(Ger)**

[Supportive treatment with megestrol acetate during radio(chemo)therapy in patients with tumors in the head-neck area. A randomized study] Fietkau R, et al.
Strahlenther Onkol 1996 Mar;172(3):162–8 (Eng. Abstr.) **(Ger)**

[Therapy pf cervical lymph node metastases of unknown primary tumor] Kirschner MJ, et al. **Strahlenther Onkol** 1997 Jul;173(7):362–8 (Eng. Abstr.) **(Ger)**

[Volume changes to the neck lymph node metastases in head-neck tumors. The evaluation of radiotherapeutic treatment success] Liszka G, et al. **Strahlenther Onkol** 1997 Aug;173(8):428–30 (Eng. Abstr.) **(Ger)**

[Soft tissue sarcoma of the head and neck area in adults. Outcome of combined surgery and irradiation and radiotherapy alone] Willers H, et al. **Strahlenther Onkol** 1997 Mar;173(3):131–5 (Eng. Abstr.) **(Ger)**

[Historical experiences in trying different overall treatment times in x-ray therapy of malignant head and neck tumors in the 1920s and 1930s] Willers H, et al.
Strahlenther Onkol 1996 Sep;172(9):512–5 (Eng. Abstr.) **(Ger)**

[Ultrasound volumetry of cervical lymph nodes during radiotherapy as a method of therapy monitoring] Schäfer CB, et al. **Ultraschall Med** 1996 Dec;17(6):289–94 (Eng. Abstr.) **(Ger)**

[Ionizing irradiation as a risk factor in thyroid cancer. A case report] Pichi Graziani M, et al. **Minerva Chir** 1996 May;51(5):355–8 (Eng. Abstr.) **(Ita)**

[Development and clinical application of MR simulation system for radiotherapy planning: with reference to intracranial and head and neck regions] Okamoto Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar; 57(4):203–10 (Eng. Abstr.) **(Jpn)**

[Sequential chemotherapy and radiotherapy in the treatment of locally advanced carcinoma of the head and neck] Fonseca E, et al. **Acta Otorrinolaringol Esp** 1997 Mar; 48(2):127–32 (Eng. Abstr.) **(Spa)**

[Is timing important in adjuvant radiotherapy?] Ramón Baeza M. **Rev Med Chil** 1996 Jul;124(7):859–64 (16 ref.) (Eng. Abstr.) **(Spa)**

[A combination of radiotherapy and chemotherapy with platidiam and fluorouracil in patients with head and neck cancer] Shparyk IaV, et al. **Lik Sprava** 1996 Mar-Apr; (3-4):153–7 **(Ukr)**

REHABILITATION

The pectoralis major myocutaneous flap in oral and maxillofacial reconstruction: a retrospective analysis of 50 cases. Ord RA. **J Oral Maxillofac Surg** 1996 Nov; 54(11):1292–5; discussion 1295–6

Rehabilitation of patients with extended facial and craniofacial resection. Mathog RH, et al. **Laryngoscope** 1997 Jan;107(1):30–9

Speech and swallowing rehabilitation for head and neck cancer patients. Logemann JA, et al.
Oncology (Huntingt) 1997 May;11(5):651–6, 659; discussion 659, 663–4 (38 ref.)

[Rehabilitation of patients with head and neck tumors, with special attention to psychotherapy] Nagy K, et al.
Fogorv Sz 1997 Feb;90(2):55–9 (Eng. Abstr.) **(Hun)**

SECONDARY

Correlation of high lactate levels in head and neck tumors with incidence of metastasis. Walenta S, et al.
Am J Pathol 1997 Feb;150(2):409–15

Cystic nodal metastasis in occult tonsil carcinoma--a case report. Soh KB, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):752–4 (16 ref.)

Salvage neck dissection for cervical recurrence of nasopharyngeal carcinoma. Yen KL, et al.
Arch Otolaryngol Head Neck Surg 1997 Jul;123(7):725–9

The benefit of postoperative radiotherapy in metastatic basal cell carcinoma. Christie DR. **Aust N Z J Surg** 1997 Jul; 67(7):491–3

Extracranial metastasis of glioblastoma multiforme diagnosed by fine-needle aspiration: a report of two cases and a review of the literature. Vural G, et al.
Diagn Cytopathol 1996 Jul;15(1):60–5 (29 ref.)

Poorly-differentiated adenoid cystic carcinoma: cytologic appearance in fine-needle aspirates of distant metastases. Yu GH, et al. **Diagn Cytopathol** 1996 Nov;15(4):296–300 (27 ref.)

Renal clear cell carcinoma appearing as a left neck mass. Boggess MA, et al. **Ear Nose Throat J** 1996 Sep; 75(9):620–22 (13 ref.)

Paraneoplastic syndrome simulating encephalitis in the course of testicular seminoma. Kałuża J, et al.
Folia Neuropathol 1997;35(1):24–8

Carcinoma arising in a dentigerous cyst with neck metastasis. Manganaro AM, et al. **Head Neck** 1997 Aug;19(5):436–9

Frequency and therapeutic implications of "skip metastases" in the neck from squamous carcinoma of the oral tongue [letter; comment] Manni JJ. **Head Neck** 1997 Aug; 19(5):445–6. Comment on: Head Neck 1997 Jan;19(1):14–9.

Anterior hip pain in the adult: an algorithmic approach to diagnosis. Mansour ES, et al. **J Am Osteopath Assoc** 1997 Jan;97(1):32–8 (29 ref.)

Phase II trial of interferon-alpha in locally recurrent or metastatic squamous cell carcinoma of the head and neck: immunological and clinical correlates. Vlock DR, et al.
J Immunother Emphasis Tumor Immunol 1996 Nov; 19(6):433–42

Acrokeratosis paraneoplastica: Bazex syndrome. Wareing MJ, et al. **J Laryngol Otol** 1996 Sep;110(9):899–900

Cutaneous lymphangitis carcinomatosa: a rare primary manifestation of malignancy. Keohane SG, et al.
J R Soc Med 1996 Oct;89(10):582–3

Identification of seven differentially displayed transcripts in human primary and matched metastatic head and neck squamous cell carcinoma cell lines: implications in metastasis and/or radiation response. Patel S, et al.
Oral Oncol 1997 May;33(3):197–203

Melanoma ganglionic metastasis 30 years after treatment of the primary tumor--a case report. Tincani AJ, et al.
Rev Paul Med 1996 Mar-Apr;114(2):1131–3

[Cervico-mediastinal recurrences of differentiated thyroid cancers: value of MRI] Cyna-Gorse F, et al. **J Radiol** 1996 Dec;77(12):1195–200 (Eng. Abstr.) **(Fre)**

[Diagnosis and therapy of occult primary tumor with lymph node metastases in the area of the head and neck] Jungehülsing M, et al. **HNO** 1997 Jul;45(7):573–83 (108 ref.) **(Ger)**

[Metastases of germ cell tumors to the ENT area--a rare differential diagnosis of lymph node metastases in unknown primary tumor] Büttner H, et al. **Laryngorhinootologie** 1996 Oct;75(10):616–8 (Eng. Abstr.) **(Ger)**

[Embryonic carcinoma associated to teratoma, in a Xikrin indian] Vieira Filho JP, et al. **Rev Assoc Med Bras** 1996 Apr-Jun;42(2):123–6 (Eng. Abstr.) **(Por)**

SURGERY

Microvascular free tissue transfers after preoperative irradiation in head and neck reconstructions. Aitasalo K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:247–50

Microvascular free flaps in head and neck cancer surgery in Finland 1986–1995. Mäkitie A, et al.
Acta Otolaryngol Suppl (Stockh) 1997;529:245–6

Mortality and morbidity with intraoperative radiotherapy for head and neck cancer. Haller JR, et al.
Am J Otolaryngol 1996 Sep-Oct;17(5):308–10

Selective neck dissection and the management of the node-positive neck. Traynor SJ, et al. **Am J Surg** 1996 Dec;172(6):654–7

Palliative gastric transposition following pharyngolaryngoesophagectomy. Azurin DJ, et al.
Am Surg 1997 May;63(5):410–3

Mentosternal pterygium with teratoma. Akgüner M, et al.
Ann Plast Surg 1996 Aug;37(2):201–3

Reconstruction of head and neck hemangiomas with tissue expansion in the pediatric population. Chang CJ, et al.
Ann Plast Surg 1997 Jan;38(1):15–8

The extended, pedicled rectus abdominis free tissue transfer for head and neck reconstruction. Cordeiro PG, et al.
Ann Plast Surg 1997 Jul;39(1):53–9

Recurrent basal cell carcinoma in margin-positive tumors. Friedman HI, et al. **Ann Plast Surg** 1997 Mar;38(3):232–5

Microsurgical reconstruction of the head and neck: interdisciplinary collaboration between head and neck surgeons and plastic surgeons in 305 cases. Jones NF, et al. **Ann Plast Surg** 1996 Jan;36(1):37–43

A well-differentiated giant liposarcoma originating from the buccal fat pad. Senyuva C, et al. **Ann Plast Surg** 1996 Oct; 37(4):439–43

Analysis of prognostic factors for recurrence after neck dissection. Barzan L, et al.
Arch Otolaryngol Head Neck Surg 1996 Dec; 122(12):1299–302

Lateral arm microvascular flap in head and neck reconstruction. Civantos FJ Jr, et al.
Arch Otolaryngol Head Neck Surg 1997 Aug;123(8):830–6

Critical pathways for head and neck surgery. Development and implementation. Cohen J, et al.
Arch Otolaryngol Head Neck Surg 1997 Jan;123(1):11–4

Adjunctive intraoperative photodynamic therapy and microvascular anastomoses [letter; comment] Dilkes M, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):888 . Comment on: Arch Otolaryngol Head Neck Surg 1996 Nov;122(11):1261–5.

Effect of resection margins on dermatofibrosarcoma protuberans of the head and neck. Gayner SM, et al.
Arch Otolaryngol Head Neck Surg 1997 Apr;123(4):430–3

Effectiveness of selective neck dissection for management of the clinically negative neck. Pitman KT, et al.
Arch Otolaryngol Head Neck Surg 1997 Sep;123(9):917–22

Internal jugular vein thrombosis after functional and selective neck dissection. Quraishi HA, et al.
Arch Otolaryngol Head Neck Surg 1997 Sep;123(9):969–73

Intraoperative mapping of sensate flaps. Electrophysiologic techniques and neurosomal boundaries. Rhee JS, et al.
Arch Otolaryngol Head Neck Surg 1997 Aug;123(8):823–9

Salvage neck dissection for cervical recurrence of nasopharyngeal carcinoma. Yen KL, et al.
Arch Otolaryngol Head Neck Surg 1997 Jul;123(7):725–9

The lower trapezius island myocutaneous flap for reconstruction of soft tissue of the lateral skullbase and neck. Cole I. **Aust N Z J Surg** 1997 Jul;67(7):452–6 (21 ref.)

Facial disfigurement. Counselling is important in healing the whole patient [letter; comment] Edwards D. **BMJ** 1997 Jul 12;315(7100):120. Comment on: BMJ 1997 Apr 5;314(7086):991.

"Mandibular and facial reconstruction" rehabilitation of the head and neck cancer patient. Marx RE, et al. **Bone** 1996 Jul;19(1 Suppl):59S–82S (17 ref.)

Multiattribute utility assessment of outcomes of treatment for head and neck cancer. Hodder SC, et al.
Br J Cancer 1997;75(6):898–902

Surgical treatment of parathyroid disease. Scott-Coombes DM, et al. **Br J Hosp Med** 1997 May 21-Jun 3; 57(10):488–91 (20 ref.)

Selective use of tracheostomy in surgery for head and neck cancer: an audit. Crosher R, et al.
Br J Oral Maxillofac Surg 1997 Feb;35(1):43–5

Gustatory sweating in a free flap. Dunaway DJ, et al.
Br J Plast Surg 1996 Oct;49(7):471–2

An evaluation of the Würzburg titanium miniplate osteosynthesis system for mandibular fixation. Malata CM, et al. **Br J Plast Surg** 1997 Jan;50(1):26–32

Video-assisted distal carotid artery surgery. Cheshire NJ, et al. **Br J Surg** 1997 Jul;84(7):1010

Exfoliated malignant cells in glove and instrument washings following head and neck surgery. Curran AJ, et al.
Clin Otolaryngol 1996 Jun;21(3):281–3

The clinically N(0) neck: investigation and treatment [editorial] Watkinson J. **Clin Otolaryngol** 1993 Dec; 18(6):443–5 (39 ref.)

Surgical management of cervical lymph node metastases. Eicher SA, et al. **Curr Opin Oncol** 1996 May;8(3):215–20 (30 ref.)

Vasopressin levels in major head and neck surgery. Jensen NF, et al. **Ear Nose Throat J** 1997 Feb;76(2):87, 90, 91–4

Autotransplanted jejunum in head and neck cancer. Kornfehl J. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):16–22 (96 ref.)

Development of distant metastasis after treatment of advanced-stage head and neck cancer. Alvi A, et al.
Head Neck 1997 Sep;19(6):500–5

Systematic approach to the treatment of chylous leakage after neck dissection. de Gier HH, et al. **Head Neck** 1996 Jul-Aug;18(4):347–51

Are head and neck specific quality of life measures necessary? Gliklich RE, et al. **Head Neck** 1997 Sep;19(6):474–80

Whole salivary flow rates following submandibular gland resection. Jacob RF, et al. **Head Neck** 1996 May-Jun; 18(3):242–7

Comparison of ampicillin/sulbactam versus clindamycin in the prevention of infection in patients undergoing head and neck surgery. Johnson JT, et al. **Head Neck** 1997 Aug; 19(5):367–71

Treatment outcome for 424 primary cases of clinical I cutaneous malignant melanoma of the head and neck. Kane

WJ, et al. **Head Neck** 1997 Sep;19(6):457–65

Risk factors for pulmonary complications in the postoperative head and neck surgery patient. McCulloch TM, et al. **Head Neck** 1997 Aug;19(5):372–7

Hyperbaric oxygen therapy for wound complications after surgery in the irradiated head and neck: a review of the literature and a report of 15 consecutive patients. Neovius EB, et al. **Head Neck** 1997 Jul;19(4):315–22

Expanded application of selective neck dissection with regard to nodal status. Pellitteri PK, et al. **Head Neck** 1997 Jul; 19(4):260–5

Short–term versus long–term antimicrobial prophylaxis in oncologic head and neck surgery. Righi M, et al. **Head Neck** 1996 Sep–Oct;18(5):399–404

Comparison of three prophylactic antibiotic regimens in clean–contaminated head and neck surgery. Rodrigo JP, et al. **Head Neck** 1997 May;19(3):188–93

Maxillectomy and its classification. Spiro RH, et al. **Head Neck** 1997 Jul;19(4):309–14

Preservation of function by radiotherapy of small primary carcinomas preceded by neck dissection for extensive nodal metastases of the head and neck. Verschuur HP, et al. **Head Neck** 1996 May–Jun;18(3):277–82

Pectoralis major myofascial flap: a valuable tool in contemporary head and neck reconstruction. Zbar RI, et al. **Head Neck** 1997 Aug;19(5):412–8

Subaponeurotic connective tissue: a safe way to reconstruct facial and oropharyngeal defects. Ristić J, et al. **J Craniomaxillofac Surg** 1996 Oct;24(5):276–80 (6 ref.)

The syndrome of inappropriate secretion of antidiuretic hormone (SIADH) as a consequence of neck dissection. Mesko TW, et al. **J Laryngol Otol** 1997 May;111(5):449–53

Cephazolin and metronidazole prophylaxis in head and neck surgery. Strauss M, et al. **J Laryngol Otol** 1997 Jul; 111(7):631–4

Results of surgery for head and neck tumors that involve the carotid artery at the skull base. Brisman MH, et al. **J Neurosurg** 1997 May;86(5):787–92

Extracranial–intracranial high–flow bypass using the radial artery between the vertebral and middle cerebral arteries. Technical note. Hadeishi H, et al. **J Neurosurg** 1996 Nov; 85(5):976–9

Cervical dumbbell ganglioneuroma in an eighteen month old child. A case report. Maggi G, et al. **J Neurosurg Sci** 1995 Dec;39(4):257–60

The pectoralis major myocutaneous flap in oral and maxillofacial reconstruction: a retrospective analysis of 50 cases. Ord RA. **J Oral Maxillofac Surg** 1996 Nov; 54(11):1292–5; discussion 1295–6

The surgical management of giant cervicofacial lymphatic malformations. Lille ST, et al. **J Pediatr Surg** 1996 Dec; 31(12):1648–50

The OOPS procedure (operation on placental support): in utero airway management of the fetus with prenatally diagnosed tracheal obstruction. Skarsgard ED, et al. **J Pediatr Surg** 1996 Jun;31(6):826–8

Resource utilization and patient morbidity in head and neck reconstruction. Brown MR, et al. **Laryngoscope** 1997 Aug; 107(8):1028–31

Carotid resection and reconstruction for advanced cervical cancer. Katsuno S, et al. **Laryngoscope** 1997 May; 107(5):661–4

Enhanced reliability and renewed applications of the deltopectoral flap in head and neck reconstruction. Kingdom TT, et al. **Laryngoscope** 1996 Oct;106(10):1230–3

Rehabilitation of patients with extended facial and craniofacial resection. Mathog RH, et al. **Laryngoscope** 1997 Jan;107(1):30–9

Planned early neck dissection before radiation for persistent neck nodes after induction chemotherapy. Thomas GR, et al. **Laryngoscope** 1997 Aug;107(8):1129–37

Preoperative embolization in the management of neck paragangliomas. Tikkakoski T, et al. **Laryngoscope** 1997 Jun;107(6):821–6

Characteristics of incompletely excised basal cell carcinomas of the skin. Rippey JJ, et al. **Med J Aust** 1997 Jun 2; 166(11):581–3

Delayed resection in the management of non–orbital rhabdomyosarcoma of the head and neck in childhood. Blatt J, et al. **Med Pediatr Oncol** 1997 Apr;28(4):294–8

Skin expansion versus free forearm flap in forehead reconstruction. Di Giuseppe A, et al. **Microsurgery** 1996; 17(5):248–53

Comparison of end–to–end and end–to–side venous anastomosis in free–tissue transfer following resection of head and neck tumors. Ueda K, et al. **Microsurgery** 1996; 17(3):146–9

Intraoral free flap monitoring with a laser Doppler flowmeter. Yoshino K, et al. **Microsurgery** 1996; 17(6):337–40

Microsurgical composite reconstruction in head and neck and esophagus. Yoshino K, et al. **Microsurgery** 1996;17(6):341–6

Basilar invagination associated with an intercarotid paraganglioma—case report. Ishii N, et al. **Neurol Med Chir (Tokyo)** 1997 Mar;37(3):279–83

Hemifacial dismasking flap for anterior skull base tumor—technical note. Kyutoku S, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):666–9; discussion 669–70

Intravagal paragangliomas: report of four cases. Borba LA, et al. **Neurosurgery** 1996 Mar;38(3):569–75; discussion 575

Surgical results for meningiomas of the craniocervical junction. Samii M, et al. **Neurosurgery** 1996 Dec; 39(6):1086–94; discussion 1094–5

Detection of the proto–oncogene eIF4E in surgical margins may predict recurrence in head and neck cancer. Nathan CA, et al. **Oncogene** 1997 Jul 31;15(5):579–84

Intra–operative radiotherapy—5 years of experience in the palliative treatment of recurrent and advanced head and neck cancers. Spaeth J, et al. **Oncology** 1997 May–Jun; 54(3):208–13

Current concepts in surgical management of neck metastases from head and neck cancer. Stringer SP. **Oncology (Huntingt)** 1995 Jun;9(6):547–54; discussion 554, 557–8 (47 ref.)

The drainage of cerebrospinal fluid into the lymphatic system of the neck in humans. Caversaccio M, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May–Jun; 58(3):164–6

Videoendoscopic biofeedback: a simple method to improve the efficacy of swallowing rehabilitation of patients after head and neck surgery. Denk DM, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):100–5

Conceptual considerations in head & neck reconstruction. Defect analysis and options for reconstruction. Clevens RA, et al. **Otolaryngol Clin North Am** 1997 Aug; 30(4):495–517 (17 ref.)

Postoperative hypertension after radical neck dissection. Celikkanat S, et al. **Otolaryngol Head Neck Surg** 1997 Jul; 117(1):91–2

The use of lidocaine in microvascular reconstruction. Chafin JB, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):93–8

Percutaneous endoscopic gastrostomy by head and neck surgeons. Urban KG, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):489–92

A comparison of resource costs for head and neck reconstruction with free and pectoralis major flaps. Kroll SS, et al. **Plast Reconstr Surg** 1997 Apr;99(5):1282–6

Flap selection in cranial base reconstruction. Neligan PC, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1159–66; discussion 1167–8

The rectus abdominis myocutaneous flap combined with vascularized costal cartilages in reconstructive craniofacial surgery. Yamamoto Y, et al. **Plast Reconstr Surg** 1997 Aug; 100(2):439–44; discussion 445–6

Adenolymphomas of the parotid and neck with a coexistent pleomorphic adenoma. Case report. Hosokawa K, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):267–9

Multiple dermoid cysts on the forehead. Case report. Yamaki T, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Dec; 30(4):321–4

The role of plastic surgery in the treatment of malignant melanoma. Eshima I. **Surg Clin North Am** 1996 Dec; 76(6):1331–42 (37 ref.)

Reconstruction of the head and neck. Ariyan S, et al. **Surg Oncol Clin N Am** 1997 Jan;6(1):1–43 (67 ref.)

Surgical treatment for primary esophageal cancer developing after pharyngolaryngectomy for head and neck cancer. Sun K, et al. **Surgery** 1997 Jul;122(1):15–9

[Natural skin expansion. Applications to the surgery of nevus of the head and neck in children] Bennaceur S, et al. **Ann Chir Plast Esthet** 1996 Aug;41(4):338–45 (Eng. Abstr.) **(Fre)**

[Infrahyoid musculocutaneous flaps: anatomical bases and indications in cervicofacial oncologic surgery] Faucher A, et al. **Rev Laryngol Otol Rhinol (Bord)** 1997;118(1):43–6 (7 ref.) (Eng. Abstr.) **(Fre)**

[Hemangiopericytoma of the infratemporal fossa of nasopharyngeal manifestation. Value of the cervico–transoral approach] Hémar P, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(5):381–4 (14 ref.) (Eng. Abstr.) **(Fre)**

[Postoperative pain evaluation in the surgery of head and neck cancers] Mom T, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(2):93–6 (Eng. Abstr.) **(Fre)**

[Spinal accessory nerve and lymphatic neck dissection] Pinsolle V, et al. **Rev Stomatol Chir Maxillofac** 1997 Sep; 98(3):138–42 (Eng. Abstr.) **(Fre)**

[Cervical sympathetic paraganglioma] Mickley V, et al. **Chirurg** 1996 Feb;67(2):199–201 (15 ref.) (Eng. Abstr.) **(Ger)**

[Quality of tumor surgery in the area of the head–neck and necessary assessment of circumstances] Bootz F. **HNO** 1997 Jan;45(1):1–6 **(Ger)**

[Single suture closure and surgical staplers in neck interventions after previous radiotherapy] Dost P, et al. **Laryngorhinootologie** 1997 Jun;76(6):364–7 (Eng. Abstr.) **(Ger)**

[Clinical comparison between radial and lateral forearm flap] Gehrking E, et al. **Laryngorhinootologie** 1997 Mar; 76(3):162–8 (Eng. Abstr.) **(Ger)**

[Reconstructive surgery in the head–neck area with regional and free tissue transfer] Issing PR, et al. **Laryngorhinootologie** 1996 Aug;75(8):476–82 (Eng. Abstr.) **(Ger)**

[Perfusion manometry in the evaluation of postoperative swallowing function following various reconstructive procedures of the upper aero–digestive tract] Sommer K, et al. **Laryngorhinootologie** 1997 Mar;76(3):178–85 (Eng. Abstr.) **(Ger)**

[Soft tissue sarcoma of the head and neck area in adults. Outcome of combined surgery and irradiation and radiotherapy alone] Willers H, et al. **Strahlenther Onkol** 1997 Mar;173(3):131–5 (Eng. Abstr.) **(Ger)**

[Round table. Cervico–facial oncological reconstructive surgery] Felisati D. **Acta Otorhinolaryngol Ital** 1996 Jun; 16(3):286–96 **(Ita)**

[Reconstruction of the defect in the parotid region] Pasta V, et al. **G Chir** 1997 Jan–Feb;18(1–2):44–6 (Eng. Abstr.) **(Ita)**

[Reconstructive oncologic surgery of the head and neck. Morbidity and comparative results of conventional and myocutaneous flaps] Pompei S, et al. **Minerva Chir** 1997 Mar;52(3):225–33 (Eng. Abstr.) **(Ita)**

[Tumor seeding to the neck through percutaneous applicators of interstitial high–dose–rate brachytherapy for cancer of the tongue: a case report] Nishimura T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):281–2 (Eng. Abstr.) **(Jpn)**

[Preoperative autologous blood donation in patients with malignant tumors of the head and neck region] Ogawa K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Feb; 99(2):286–91 (Eng. Abstr.) **(Jpn)**

[Clinical studies on autologous blood transfusion] Okamoto M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Aug; 99(8):1095–103 (Eng. Abstr.) **(Jpn)**

[Reconstructive surgery for head and neck cancers under multiple facility cooperation system] Sameshima A, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Apr;100(4):444–8 (Eng. Abstr.) **(Jpn)**

[Transcranial Doppler sonography in radical and function neck dissection] Betlejewski S, et al. **Otolaryngol Pol** 1996; 50(1):1–7 (Eng. Abstr.) **(Pol)**

[Radical neck dissection and the possibility of complications: surgical technique] Kurnatowski P, et al. **Otolaryngol Pol** 1996;50(4):383–93 (8 ref.) (Eng. Abstr.) **(Pol)**

[Synovial sarcoma of the neck] Sznajder–Luczak M, et al. **Otolaryngol Pol** 1996;50(2):178–83 (Eng. Abstr.) **(Pol)**

THERAPY

Quality of life in head and neck cancer patients. Borghgraef K, et al. **Acta Otorhinolaryngol Belg** 1997;51(2):69–72 (7 ref.)

Trisacryl gelatin microspheres for therapeutic embolization, II: preliminary clinical evaluation in tumors and arteriovenous malformations. Beaujeux R, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):541–8

Endovascular occlusion of the carotid or vertebral artery with temporary proximal flow arrest and microcoils: clinical results. Graves VB, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1201–6

Radiotherapy with concomitant continuous cisplatin infusion for unresectable tumors of the upper aerodigestive tract: results of a phase I study. Bachaud JM, et al. **Am J Clin Oncol** 1997 Feb;20(1):1–5

Management of cervical metastases in supraglottic cancer. Gregor RT, et al. **Ann Otol Rhinol Laryngol** 1996 Nov; 105(11):845–50

Combination of chemotherapy and radiotherapy improves the cure rate in primary extranodal lymphomas of the head and neck (PLHN). Pasini F, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2837–42

Photodynamic therapy as an adjuvant intraoperative treatment of recurrent head and neck carcinomas [see comments] Biel MA. **Arch Otolaryngol Head Neck Surg** 1996 Nov;122(11):1261–5. Comment in: Arch Otolaryngol Head Neck Surg 1997 Aug;123(8):888.

Is reengineering of head and neck cancer treatment indicated? Absolutely. Cummings CW. **Arch Otolaryngol Head Neck Surg** 1996 Nov; 122(11):1155–6

Combined modality treatment of advanced head and neck cancer [letter; comment] Lawrence G, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):116. Comment on: Arch Otolaryngol Head Neck Surg 1996 May;122(5):467–71.

Generation of therapeutic T cells from draining lymph nodes in a murine model of head and neck squamous cell carcinoma. Sadeghi N, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):25–30

Intensified regimen for advanced head and neck squamous cell carcinomas. Schuller DE, et al. **Arch Otolaryngol Head Neck Surg** 1997 Feb;123(2):139–44

OK–432 therapy for lymphangiomas. Smith RJ, et al. **Arch Otolaryngol Head Neck Surg** 1996 Nov; 122(11):1195–9

Neo–adjuvant chemotherapy +/– immunotherapy with s.c. IL 2 in advanced squamous cell carcinoma of the head and neck: a pilot study. Mantovani G, et al. **Biotherapy** 1994;8(2):91–8

Selection of monoclonal antibody E48 IgG or U36 IgG for adjuvant radioimmunotherapy in head and neck cancer patients. de Bree R, et al. **Br J Cancer** 1997;75(7):1049–60

Salvage treatment for inoperable neck nodes in head and neck cancer using combined iridium–192 brachytherapy and surgical reconstruction. Cornes PG, et al. **Br J Surg** 1996 Nov;83(11):1620–2

Cytotoxicity of bleomycin and external radiation in squamous cell cancer cell lines of head and neck. Jääskelä–Saari HA, et al. **Cancer Detect Prev** 1996;20(4):279–84

An HSVtk–mediated local and distant antitumor bystander effect in tumors of head and neck origin in athymic mice.

Bi W, et al. **Cancer Gene Ther** 1997 Jul-Aug;4(4):246-52

The clinical application of DNA content and kinetic parameters in the treatment of patients with squamous cell carcinomas of the head and neck. Ensley JF. **Cancer Metastasis Rev** 1996 Mar;15(1):133-41 (40 ref.)

Biological staging of head and neck cancer and its role in developing effective treatment strategies. Lydiatt WM, et al. **Cancer Metastasis Rev** 1996 Mar;15(1):11-25 (87 ref.)

Palliative care in patients with cancer of the head and neck. Forbes K. **Clin Otolaryngol** 1997 Apr;22(2):117-22

The effects of thymostimulin on immunological function in patients with head and neck cancer. Kerrebijn JD, et al. **Clin Otolaryngol** 1996 Oct;21(5):455-62

Gene therapy for head and neck cancer. Breau RL, et al. **Curr Opin Oncol** 1996 May;8(3):227-31 (33 ref.)

Mucosal protectants and their application for head and neck chemoirradiation. Marks JE. **Curr Opin Oncol** 1997 May; 9(3):267-73 (35 ref.)

Economic considerations in the care of patients with head and neck malignancies. Pfister DG, et al. **Curr Opin Oncol** 1997 May;9(3):241-6 (51 ref.)

Widening perspectives: quality of life as a measure of outcome in the treatment of patients with cancers of the head and neck. Morris J. **Eur J Cancer B Oral Oncol** 1994 Jan;30B(1):29-31 (19 ref.)

Etiology, prognosis and management of nuchal cystic hygroma: 25 new cases and literature review. Descamps P, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan; 71(1):3-10 (112 ref.)

Echo-guided lymphatic drainage by fine-needle aspiration in persistent isolated septated fetal nuchal cystic hygroma. Chen CP, et al. **Fetal Diagn Ther** 1996 Mar-Apr;11(2):150-3

Changes in quality-of-life scores in a population of patients treated for squamous cell carcinoma of the head and neck. McDonough EM, et al. **Head Neck** 1996 Nov-Dec; 18(6):487-93

Rhabdomyosarcoma of head and neck--an analysis of 24 cases. Mehta S, et al. **Indian J Cancer** 1996 Mar;33(1):37-42

Monoclonal antibody U36, a suitable candidate for clinical immunotherapy of squamous-cell carcinoma, recognizes a CD44 isoform. Van Hal NL, et al. **Int J Cancer** 1996 Nov 15;68(4):520-7

Combined postoperative radiotherapy and weekly cisplatin infusion for locally advanced head and neck carcinoma: final report of a randomized trial. Bachaud JM, et al. **Int J Radiat Oncol Biol Phys** 1996 Dec 1;36(5):999-1004

Phase II trial of interferon-alpha in locally recurrent or metastatic squamous cell carcinoma of the head and neck: immunological and clinical correlates. Vlock DR, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):433-42

Laparoscopic-assisted gastrostomy in 26 patients: indications and outcome at 2 years. Hin PC. **J Laparoendosc Surg** 1996 Feb;6(1):25-8

Treatment of unresectable recurrent head and neck carcinoma with 13-cis-retinoic acid and interferon-alpha. A phase II study. Nikolaou AC, et al. **J Laryngol Otol** 1996 Sep;110(9):857-61

p53 mutation and locoregional treatment failure in head and neck squamous cell carcinoma. Koch WM, et al. **J Natl Cancer Inst** 1996 Nov 6;88(21):1580-6

Home and inpatient hospice care of terminal head and neck cancer patients. Talmi YP, et al. **J Palliat Care** 1997 Spring; 13(1):9-14

Dilation of proximal esophageal strictures following therapy for head and neck cancer: experience with Savary Gilliard dilators. Dhir V, et al. **J Surg Oncol** 1996 Nov;63(3):187-90

Osteosarcoma of the head and neck: meta-analysis of nonrandomized studies. Kassir RR, et al. **Laryngoscope** 1997 Jan;107(1):56-61

Factors affecting smoking cessation in patients with head and neck cancer. Vander Ark W, et al. **Laryngoscope** 1997 Jul; 107(7):888-92

Photodynamic therapy and hyperthermia as an adjuvant modality in preventing tumor recurrence. Kübler A, et al. **Lasers Surg Med** 1997;20(2):188-94

Head and neck sarcoma. Wanebo HJ. **Med Health R I** 1997 Jan;80(1):26-30 (24 ref.)

The role of interleukin-2 in combination adenovirus gene therapy for head and neck cancer. O'Malley BW Jr, et al. **Mol Endocrinol** 1997 Jun;11(6):667-73

Follow-up study in head and neck cancer: cure rate according to tumor location and stage. Grau JJ, et al. **Oncology** 1997 Jan-Feb;54(1):38-42

Percutaneous endoscopic gastrostomy for feeding. A comparison between neurologic and neoplastic indications. Pucciarelli S, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 Sep-Oct;58(5):253-7

Hyperbaric oxygen therapy [letter; comment] Feldmeier JJ, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):703-4. Comment on: Otolaryngol Head Neck Surg 1996 Jun;114(6):793-7.

Performance and quality of life outcome in patients completing concomitant chemoradiotherapy protocols for head and neck cancer. List MA, et al. **Qual Life Res** 1997 Apr;6(3):274-84

Lymphangiomas in children: percutaneous sclerotherapy with an alcoholic solution of zein. Dubois J, et al. **Radiology** 1997 Sep;204(3):651-4

A cold for cancer. Gibbs WW. **Sci Am** 1997 Aug;277(2):36-7

An adenovirus mutant that replicates selectively in p53-deficient human tumor cells [see comments] Bischoff JR, et al. **Science** 1996 Oct 18;274(5286):373-6. Comment in: Science 1996 Oct 18;274(5286):342-3.

Will a twist of viral fate lead to a new cancer treatment? [news; comment] Pennisi E. **Science** 1996 Oct 18; 274(5286):342-3. Comment on: Science 1996 Oct 18;274(5286):373-6.

What can we learn from the hyperbaric oxygen trials in head and neck cancer? Hartmann KA, et al. **Strahlenther Onkol** 1996 Nov;172 Suppl 2:26-7

Treatment of cervical lymph node metastasis from an unknown primary tumor, with a review of the literature. van der Planken HJ, et al. **Strahlenther Onkol** 1997 Mar; 173(3):163-9

Chemo-immunotherapy for advanced-stage malignancies and its impact on quality of life: multidimensional evaluation in ten cancer patients. Curreli L, et al. **Support Care Cancer** 1996 Nov;4(6):462-4

Cervical lymphatics and squamous cell carcinoma of the head and neck: biologic significance and therapeutic considerations. Carlson GW. **Surg Oncol Clin N Am** 1996 Jan;5(1):65-77 (67 ref.)

[Preoperative embolization of paraganglioma in head and neck] Feng J, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):675-6 (Eng. Abstr.) **(Chi)**

[Centralized follow-up of patients treated for head and neck cancer] Grau C, et al. **Ugeskr Laeger** 1997 Feb 17; 159(8):1104-8 (Eng. Abstr.) **(Dan)**

[Psychological management of patients with head and neck cancer] Bertrand Deligne J, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(5):294-8 (Eng. Abstr.) **(Fre)**

[Somatic gene therapy in squamous epithelial carcinomas of the head-neck area] Wollenberg B, et al. **Laryngorhinootologie** 1996 Jun;75(6):356-62 (42 ref.) (Eng. Abstr.) **(Ger)**

[Predictive and prognostic significance of PCNA, p53, bcl-2 and intratumor vessel density in radiochemotherapy of advanced head and neck tumors] Grabenbauer GG. **Strahlenther Onkol** 1997 Mar;173(3):174-5 **(Ger)**

[A phase-I/II study on the local hyperthermia of cervical N2/N3 lymph node metastases] Stahl H, et al. **Strahlenther Onkol** 1997 Apr;173(4):219-29 (Eng. Abstr.) **(Ger)**

[Head and neck sarcoma] Zohar Y, et al. **Harefuah** 1996 Jun 2;130(11):740-4, 799 (Eng. Abstr.) **(Heb)**

[Therapy of patients with head and neck neoplasms using cytotoxic T lymphocytes] IshikawaT, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):621-4 (10 ref.) **(Jpn)**

[Chemohormonal therapy for malignant melanomas] Seo W, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul; 99(7):1004-9 (Eng. Abstr.) **(Jpn)**

[Cystic lymphangioma: treatment with adhesive fibrin tissue. Follow-up study] Castañón García-Alix M, et al. **Cir Pediatr** 1996 Jan;9(1):36-9 (Eng. Abstr.) **(Spa)**

[Percutaneous endoscopic gastrostomy in patients with head and neck neoplasms. Evaluation of a new gastrostomy Dolfo W, et al. **G E N** 1995 Oct-Dec;49(4):278-85 (Eng. Abstr.) **(Spa)**

[Neck tumor suggesting malignancy: diagnostic and therapeutic approach] de Castro Carpeño J, et al. **Med Clin (Barc)** 1996 Jan 27;106(3):103-10 (39 ref.) **(Spa)**

ULTRASONOGRAPHY

Pseudotumor of infancy--the role of ultrasonography. Maddalozzo J, et al. **Ear Nose Throat J** 1996 Apr; 75(4):248-54

Evaluation of metastases and reactive lymph nodes in Doppler sonography using an ultrasound contrast enhancer. Mäurer J, et al. **Invest Radiol** 1997 Aug; 32(8):441-6

Sonographic features of head and neck hemangiomas and vascular malformations: review of 23 patients. Yang WT, et al. **J Ultrasound Med** 1997 Jan;16(1):39-44

[Retrocervical cystic hygroma and trisomy 22] Khalife H, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):87-8 **(Fre)**

[Color Doppler ultrasound studies of benign and malignant lymph nodes] Benzel W, et al. **HNO** 1996 Dec; 44(12):666-71 (Eng. Abstr.) **(Ger)**

[High resolution small parts sonography (7.5 MHz) of the head and neck region] Dewes W, et al. **Radiologe** 1996 Jan;36(1):12-21 (30 ref.) (Eng. Abstr.) **(Ger)**

[Ultrasound morphology of peripheral lymph nodes] Abolmaali N, et al. **Z Arztl Fortbild Qualitatssich** 1997 Jul; 91(4):355-60 (11 ref.) (Eng. Abstr.) **(Ger)**

[Ultrasonographic diagnosis of cystic hygroma at the 15th week. A case report] Delzanno G, et al. **Minerva Ginecol** 1996 Sep;48(9):375-6 (Eng. Abstr.) **(Ita)**

[Early diagnosis of cystic hygroma and fetal hydrops with transvaginal ultrasonography] Rosati P, et al. **Radiol Med (Torino)** 1996 Dec;92(6):827-9 **(Ita)**

[Transcranial Doppler sonography in radical and function neck dissection] Betlejewski S, et al. **Otolaryngol Pol** 1996; 50(1):1-7 (Eng. Abstr.) **(Pol)**

ULTRASTRUCTURE

Histomorphological characteristics of non-metastatic lymph nodes in patients with head and neck cancer according to their site in the neck. Klimek T, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):336-40

Prognostic significance of nucleolar organizer regions in adenoid cystic carcinomas of the head and neck. Xie X, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun; 123(6):615-20

Head and neck fibromyxoid sarcoma: clinicopathological correlation with emphasis on peculiar ultrastructural features related to collagen processing. Papadimitriou JC, et al. **Ultrastruct Pathol** 1997 Jan-Feb;21(1):81-7

[Paragangliomas in the head and neck area] Popkhristova E, et al. **Khirurgiia (Sofiia)** 1996;49(6):57-8 **(Bul)**

VETERINARY

A phase III study on hyperthermia in head and neck canine tumours: not hot enough [editorial] Kapp DS. **Int J Hyperthermia** 1996 May-Jun;12(3):437-41

Lipoma in a foal [clinical conference] Dunkerley SA, et al. **J Am Vet Med Assoc** 1997 Feb 1;210(3):332-3; discussion 334-5

Radiation oncology of head and neck tumors. King GK, et al. **Vet Clin North Am Small Anim Pract** 1997 Jan; 27(1):101-13 (79 ref.)

Juvenile rhabdomyosarcomas in two dogs. Kim DY, et al. **Vet Pathol** 1996 Jul;33(4):447-50

VIROLOGY

Human papillomavirus in head and neck squamous cell carcinomas in nonsmokers. Fouret P, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):513-6

Human papillomavirus (HPV) in head and neck cancer. An association of HPV 16 with squamous cell carcinoma of Waldeyer's tonsillar ring. Paz IB, et al. **Cancer** 1997 Feb 1;79(3):595-604

A possible role for human papillomaviruses in head and neck cancer. Steinberg BM, et al. **Cancer Metastasis Rev** 1996 Mar;15(1):91-112 (178 ref.)

Role of human papillomaviruses in cancer of the respiratory and upper digestive tract. Snijders PJ, et al. **Clin Dermatol** 1997 May-Jun;15(3):415-25 (112 ref.)

The Epstein-Barr virus in malignant non-Hodgkin's lymphoma of the upper aerodigestive tract. Ott G, et al. **Diagn Mol Pathol** 1997 Jun;6(3):134-9

p53 mutations in relation to human papillomavirus type 16 infection in squamous cell carcinomas of the head and neck. Scholes AG, et al. **Int J Cancer** 1997 May 29;71(5):796-9

Altered p53 expression in Epstein Barr virus positive T cell lymphomas. Lee JH, et al. **J Korean Med Sci** 1995 Dec; 10(6):399-405

Detection of human papillomavirus (HPV) type 6, 16 and 18 in head and neck squamous cell carcinomas by in situ hybridization. Cerovac Z, et al. **Neoplasma** 1996; 43(3):185-94

[Possible role of viral agents in the pathogenesis of squamous cell carcinomas of the head and neck] Dolcetti R, et al. **Acta Otorhinolaryngol Ital** 1996 Jun;16(3 Suppl 54):11-6 (80 ref.) **(Ita)**

HEAD BANGING see **STEREOTYPED BEHAVIOR**

HEAD-DOWN TILT

see related

TILT-TABLE TEST

Alterations in skeletal muscle microcirculation of head-down tilted rats. Stepke B, et al. **Acta Physiol Hung** 1996; 84(1):33-42

Use of the Trendelenburg position by critical care nurses: Trendelenburg survey. Ostrow CL. **Am J Crit Care** 1997 May;6(3):172-6

Restoration of plasma volume after 16 days of head-down tilt induced by a single bout of maximal exercise. Convertino VA, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R3-10

Effects of exercise during head-down bed rest on postural control. Davis JE, et al. **Aviat Space Environ Med** 1997 May;68(5):392-5

Height increase, neuromuscular function, and back pain during 6 degrees head-down tilt with traction. Styf JR, et al. **Aviat Space Environ Med** 1997 Jan;68(1):24-9

Changes in apical organization of choroidal cells in rats adapted to spaceflight or head-down tilt. Gabrion J, et al. **Brain Res** 1996 Sep 23;734(1-2):301-15

Non-invasive continuous arterial pressure, heart rate and stroke volume measurements during graded head-up tilt in normal man. Critchley LA, et al. **Clin Auton Res** 1997 Apr;7(2):97-101

A comparison of non-invasive continuous finger blood pressure measurement (Finapres) with intra-arterial pressure during prolonged head-up tilt. Petersen ME, et al. **Eur Heart J** 1995 Nov;16(11):1641-54

Diurnal rhythms of plasma renin activity, atrial natriuretic peptide and arterial pressure during head-down bed rest in humans. Gauquelin G, et al. **Eur J Appl Physiol** 1996; 73(6):536-43

Comparison of a 4-day confinement and head-down tilt on endocrine response and cardiovascular variability in humans. Sigaudo D, et al. **Eur J Appl Physiol** 1996; 73(1-2):28-37

Effects of Trendelenburg versus passive leg raising: autotransfusion in humans [letter] Terai C, et al.

Intensive Care Med 1996 Jun;22(6):613–4

Erythropoietin under real and simulated microgravity conditions in humans. Gunga HC, et al. **J Appl Physiol** 1996 Aug;81(2):761–73

Vasomotor instability preceding tilt-induced syncope: does respiration play a role? Lipsitz LA, et al. **J Appl Physiol** 1997 Aug;83(2):383–90

Changes in leg vein filling and emptying characteristics and leg volumes during long-term head-down bed rest. Louisy F, et al. **J Appl Physiol** 1997 Jun;82(6):1726–33

Fractal analysis of cytoskeleton rearrangement in cardiac muscle during head-down tilt. Thomason DB, et al. **J Appl Physiol** 1996 Oct;81(4):1522–7

Pentobarbital alters the response of cerebrospinal fluid pressure evoked by two provocative tests in rats. Searles RV, et al. **Pharmacology** 1996 Feb;52(2):78–85

The effect of head-down tilt position on arterial blood pressure after spinal anesthesia for cesarean delivery. Miyabe M, et al. **Reg Anesth** 1997 May-Jun;22(3):239–42

Cerebrovascular and cardiovascular measurements during neurally mediated syncope induced by head-up tilt. Schondorf R, et al. **Stroke** 1997 Aug;28(8):1564–8

ADVERSE EFFECTS

Submaximal exercise VO2 and Qc during 30-day 6 degrees head-down bed rest with isotonic and isokinetic exercise training. Greenleaf JE, et al. **Aviat Space Environ Med** 1996 Apr;67(4):314–9

Changes in radioactive tracer distribution in rats after 24 hours of 45 degrees hind limb unweighting. Padilla MT, et al. **Aviat Space Environ Med** 1997 Aug;68(8):726–31

Effects of head down tilt on hemodynamics, fluid volumes, and plasma Na-K pump inhibitor in rats. Pamnani MB, et al. **Aviat Space Environ Med** 1996 Oct;67(10):928–34

Cardiovascular and hormonal changes induced by a simulation of a lunar mission. Pavy-Le Traon A, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):829–37

Isokinetic and isometric strength-endurance after 6 hours of immersion and 6 degrees head-down tilt in men. Shaffer-Bailey M, et al. **Aviat Space Environ Med** 1996 Jan;67(1):46–51

Effect of standing or walking on physiological changes induced by head down bed rest: implications for spaceflight. Vernikos J, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1069–79

Monitoring acute whole-body fluid redistribution by changes in leg and neck volumes. Watenpaugh DE, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):858–62

PHYSIOLOGY

Evidence for increased beta-adrenoreceptor responsiveness induced by 14 days of simulated microgravity in humans. Convertino VA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R93–9

Skin sympathetic outflow during head-down neck flexion in humans. Ray CA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1142–6

Vertical optokinetic nystagmus and after-responses during backward tilt. Correia MJ, et al. **Aviat Space Environ Med** 1997 Apr;68(4):289–95

Subjective postural orientation and visual vertical during slow pitch tilt for the seated human subject. Ito Y, et al. **Aviat Space Environ Med** 1997 Jan;68(1):3–12

Effects of thoracic volume expansion on cardiorenal function in the conscious rat. McCombs GB, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1086–91

Cardiovascular deconditioning through head-down tilt bed rest increases blood pressure variability and plasma renin activity. Schmedtje JF Jr, et al. **Aviat Space Environ Med** 1996 Jun;67(6):539–46

Cardio-respiratory changes during the onset of head-down tilt. Soubiran C, et al. **Aviat Space Environ Med** 1996 Jul; 67(7):648–53

Effect of antiorthostatic hypokinetic/hypodynamia on urinary endothelin-1 and N-acetyl-beta-D-glucosaminidase excretion in rats. Capodicasa E, et al. **Clin Chim Acta** 1997 Apr 4; 260(1):35–48

Exercise thermoregulation after 6 h of chair rest, 6 degrees head-down bed-rest, and water immersion deconditioning in men. Greenleaf JE, et al. **Eur J Appl Physiol** 1996; 72(4):303–9

Interaction between head-down tilt and anterior chamber infusions on intraocular pressure of anesthetized rats. Searles RV, et al. **Exp Eye Res** 1996 Jun;62(6):621–6

Effect of acute head-down tilt on skeletal muscle cross-sectional area and proton transverse relaxation time. Conley MS, et al. **J Appl Physiol** 1996 Oct;81(4):1572–7

Cerebrovascular and cardiovascular responses to graded tilt in patients with autonomic failure. Bondar RL, et al. **Stroke** 1997 Sep;28(9):1677–85

[Effect of 120-day antiorthostatic hypokinesia on the reproductive function in women] Goncharova AG, et al. **Aviakosm Ekolog Med** 1997;31(1):63–8 (Eng. Abstr.) **(Rus)**

[Dynamics of the hematological shifts in females during antiorthostatic hypokinesia] Ivanova SM, et al. **Aviakosm Ekolog Med** 1997;31(1):52–7 (Eng. Abstr.) **(Rus)**

[The effect of head-down tilt bed rest on metabolism of erythrocytes and functional state of membranes in females] Ivanova SM, et al. **Aviakosm Ekolog Med** 1997;31(1):58–62 (Eng. Abstr.) **(Rus)**

[120-day head-down tilted bedrest study with participation of female subjects: tasks and protocols of the studies] Morukov BV, et al. **Aviakosm Ekolog Med** 1997;31(1):40–7 (Eng. Abstr.) **(Rus)**

[The wakefulness-sleep cycle during antiorthostatic hypokinesia] Vein AM, et al. **Aviakosm Ekolog Med** 1997; 31(1):47–52 (Eng. Abstr.) **(Rus)**

[Heart functions in monkeys during a 2-week antiorthostatic hypokinesia] Krotov VP, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct-Nov;82(10–11):34–45 (Eng. Abstr.) **(Rus)**

[Ca2(+)-dependent glucose absorption in the small intestine of rats under head-down tilt stress] Sheptitskiĭ VA, et al. **Fiziol Zh Im I M Sechenova** 1996 Mar;82(3):125–30 (Eng. Abstr.) **(Rus)**

HEAD INJURIES

see related
BRAIN INJURIES

Head injuries in sport. Cantu RC. **Br J Sports Med** 1996 Dec;30(4):289–96 (50 ref.)

Understanding head injury and intellectual recovery from brain damage: is IQ an adequate measure? Cahn G, et al. **Bull Am Acad Psychiatry Law** 1996;24(1):135–42

Clinical neurosurgery interactive audience participation 1995. Hadley MN. **Clin Neurosurg** 1996;43:437–43

Symptomatic blunt head injury in children--a prospective, single-investigator study. Fisher JD. **Clin Pediatr (Phila)** 1997 Aug;36(8):461–5

Athletic head injuries. Cantu RC. **Clin Sports Med** 1997 Jul; 16(3):531–42 (18 ref.)

Establishing justice in the field of damage law. O'Neill WI. **IMS Ind Med Surg** 1968 Jan;37(1):46–55

Penetrating BB shot head wound in an asymptomatic 9-year-old girl: the ultimate teaching moment. Johnson NA. **J Am Board Fam Pract** 1997 Mar-Apr;10(2):125–30 (14 ref.)

Helicopter main rotor blade injury to the head with survival. Gibbons JR, et al. **J R Army Med Corps** 1997 Jun; 143(2):122–3

Effectiveness of bicycle safety helmets in preventing head injuries. A case-control study [see comments] Thompson DC, et al. **JAMA** 1996 Dec 25;276(24):1968–73. Comment in: JAMA 1997 Mar 19;277(11):883; discussion 884. Comment in: JAMA 1997 Mar 19;277(11):883–4; discussion 884.

Importance of partitioning membranes of the brain and the influence of the neck in head injury modelling. Kumaresan S, et al. **Med Biol Eng Comput** 1996 Jan;34(1):27–32

Severe head injury: prehospital and emergency department management. Silvestri S, et al. **Mt Sinai J Med** 1997 Sep-Oct;64(4-5):329–38 (58 ref.)

BLOOD

Evaluation of a regional oxygen saturation catheter for monitoring SjvO2 in head injured patients. Ritter AM, et al. **J Clin Monit** 1996 Jul;12(4):285–91

Fibrinolytic parameters as an admission prognostic marker of head injury in patients who talk and deteriorate. Takahashi H, et al. **J Neurosurg** 1997 May;86(5):768–72

Cerebral arteriovenous PCO2 difference and early global cerebral ischemia in a patient with acute severe head injury. Chieregato A, et al. **J Neurosurg Anesthesiol** 1997 Jul; 9(3):256–62

CEREBROSPINAL FLUID

Endogenous neuropeptides in patients with acute traumatic head injury. II: Changes in the levels of cerebrospinal fluid substance P, serotonin and lipid peroxidation products in patients with head trauma. Karakücük EI, et al. **Neuropeptides** 1997 Jun;31(3):259–63

Endogenous neuropeptides in patients with acute traumatic head injury, I: cerebrospinal fluid beta-endorphin levels are increased within 24 hours following the trauma. Paşaoglu H, et al. **Neuropeptides** 1996 Feb;30(1):47–51

CLASSIFICATION

Relationship between Glasgow coma scale and functional outcome. Zafonte RD, et al. **Am J Phys Med Rehabil** 1996 Sep-Oct;75(5):364–9

Clinicopathological heterogeneity in the classification of mild head injury. Culotta VP, et al. **Neurosurgery** 1996 Feb; 38(2):245–50

COMPLICATIONS

Predictors and dynamics of posttraumatic epilepsy. Pohlmann-Eden B, et al. **Acta Neurol Scand** 1997 May; 95(5):257–62

Traumatic cervical disc herniation--tetraparesis in a patient kicked by a horse. Kotilainen EM, et al. **Acta Orthop Scand** 1997 Apr;68(2):176–7

Traumatic carotid-cavernous sinus fistula with spontaneous resolution. Ferrera PC. **Am J Emerg Med** 1997 Jul; 15(4):386–8

Head injury and risk of Alzheimer's disease by apolipoprotein E genotype. O'Meara ES, et al. **Am J Epidemiol** 1997 Sep 1;146(5):373–84

Coagulopathy in severe closed head injury: is empiric therapy warranted? May AK, et al. **Am Surg** 1997 Mar;63(3):233–6; discussion 236–7

Intraoperative jugular desaturation during surgery for traumatic intracranial hematomas. Gopinath SP, et al. **Anesth Analg** 1996 Nov;83(5):1014–21

Brain edema, hemorrhagic necrosis volume, and neurological status with rapid infusion of 0.45% saline or 5% dextrose in 0.9% saline after closed head trauma in rats. Gurevich B, et al. **Anesth Analg** 1997 Mar;84(3):554–9

Tension pneumocephalus and tension orbital emphysema following blunt trauma. Wood BJ, et al. **Ann Emerg Med** 1996 Oct;28(4):446–9

Effect of age, ethnicity, and head injury on the association between APOE genotypes and Alzheimer's disease. Tang MX, et al. **Ann N Y Acad Sci** 1996 Dec 16;802:6–15

Revised Winter-Tozer equation for normalized phenytoin concentrations in trauma and elderly patients with hypoalbuminemia. Anderson GD, et al. **Ann Pharmacother** 1997 Mar;31(3):279–84

Posttraumatic-delayed cerebellar syndrome [letter; comment] Djaldetti R, et al. **Arch Neurol** 1996 Dec;53(12):1214–5. Comment on: Arch Neurol 1996 May;53(5):450–4.

Olfactory dysfunction in patients with head trauma. Doty RL, et al. **Arch Neurol** 1997 Sep;54(9):1131–40

Imaging quiz case 2. Soft tissue fibrosis. Oghalai JS, et al. **Arch Otolaryngol Head Neck Surg** 1996 Nov; 122(11):1267–9

Psychological problems following minor head injury: a prospective study. Wright JC, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):399–412

The significance of traumatic intraventricular haemorrhage in severe head injury. Abraszko RA, et al. **Br J Neurosurg** 1995;9(6):769–73

Chronic post-traumatic headaches are not a myth [editorial; comment] Evans RW. **Cephalalgia** 1996 Nov;16(7):461. Comment on: Cephalalgia 1996 Nov;16(7):486–93.

Chronic post-traumatic headaches classified and compared with natural headaches [see comments] Haas DC. **Cephalalgia** 1996 Nov;16(7):486–93. Comment in: Cephalalgia 1996 Nov;16(7):461.

Cranial fasciitis. Hoya K, et al. **Childs Nerv Syst** 1996 Sep; 12(9):556–8

Neuroprotective agents in severe head injury. Fearnside M. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):S54–5

Mycoplasma hominis meningitis complicating head trauma: case report and review. Cohen M, et al. **Clin Infect Dis** 1997 Feb;24(2):272–3

Use of random amplification of polymorphic DNA in a case of Pasteurella multocida meningitis that occurred following a cat scratch on the head. Schuur PM, et al. **Clin Infect Dis** 1997 May;24(5):1004–6

Ranitidine improves lymphocyte function after severe head injury: results of a randomized, double-blind study. Rixen D, et al. **Crit Care Med** 1996 Nov;24(11):1787–92

Downgaze paresis following severe head trauma in a child. Kaye SB, et al. **Dev Med Child Neurol** 1996 Nov; 38(11):1046–52

Head injury as a risk factor for brain tumors in children: results from a multicenter case-control study. Gurney JG, et al. **Epidemiology** 1996 Sep;7(5):485–9

Benign focal epileptiform discharges in children after severe head trauma: prognostic value and clinical course. Wohlrab G, et al. **Epilepsia** 1997 Mar;38(3):275–8

Detection of ruptured cerebral bridging veins at autopsy. Maxeiner H. **Forensic Sci Int** 1997 Sep 19;89(1–2):103–10

Pathogenesis of posttraumatic headache and migraine: a common headache pathway? Packard RC, et al. **Headache** 1997 Mar;37(3):142–52 (114 ref.)

Otoneurologic evaluation of child vertigo. D'Agostino R, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jun 20; 40(2–3):133–9

Pourfour du Petit syndrome: a case following a traffic accident with severe cranioencephalic trauma. Avellanal M, et al. **Intensive Care Med** 1996 Oct;22(10):1090–92

Neuroleptic malignant syndrome in a patient with head injury. Perez-Vela JL, et al. **Intensive Care Med** 1996 Jun; 22(6):593–5

Warfarin and the apparent minor head injury. Saab M, et al. **J Accid Emerg Med** 1996 May;13(3):208–9

Disability and handicap 5 years after a head injury: a population-based study. Masson F, et al. **J Clin Epidemiol** 1997 May;50(5):595–601

Thyroid storm precipitated by trauma. Yoshida D. **J Emerg Med** 1996 Nov-Dec;14(6):697–701

Risk factors predicting surgically significant intracranial hematomas in patients with head injuries. Hung CC, et al. **J Formos Med Assoc** 1996 Apr;95(4):294–7

The computed tomographic attenuation and the age of subdural hematomas. Lee KS, et al. **J Korean Med Sci** 1997 Aug;12(4):353–9

Alzheimer's disease after remote head injury: an incidence study. Schofield PW, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):119–24

Development of anterior cranial fossa dural arteriovenous malformation following head trauma. Case report. Ishikawa T, et al. **J Neurosurg** 1997 Feb;86(2):291–3

Cerebral arteriovenous oxygen difference: a predictor of cerebral infarction and outcome in patients with severe head injury. Le Roux PD, et al. **J Neurosurg** 1997 Jul; 87(1):1–8

Traumatic subarachnoid hemorrhage [letter; comment] Piek

J. **J Neurosurg** 1997 Feb;86(2):317–8. Comment on: J Neurosurg 1996 Jul;;85(1):82–9.

Primary post-traumatic intraventricular hemorrhage. Karavelis A, et al. **J Neurosurg Sci** 1995 Dec;39(4):253–6

Thresholds for cerebral ischemia after severe head injury: relationship with late CT findings and outcome. Schröder ML, et al. **J Neurotrauma** 1996 Jan;13(1):17–23

Trauma in patients with temporomandibular disorders: frequency and treatment outcome. De Boever JA, et al. **J Oral Rehabil** 1996 Feb;23(2):91–6

Articulated radial head replacement and elbow release for post head-injury heterotopic ossification. Charnley G, et al. **J Orthop Trauma** 1996;10(1):68–71

Early post-traumatic seizures in children: clinical and radiological aspects of injury. Ong LC, et al. **J Paediatr Child Health** 1996 Apr;32(2):173–6

Vomiting after mild head injury is related to migraine. Jan MM, et al. **J Pediatr** 1997 Jan;130(1):134–7

Quadraplegia in a patient with an undiagnosed odontoid peg fracture. The importance of cervical spine immobilisation in patients with head injuries. Powell RM, et al. **J R Army Med Corps** 1996 Jun;142(2):79–81

Early fracture fixation may be deleterious after head injury [letter; comment] Anglen JO. **J Trauma** 1997 May; 42(5):981–2; discussion 983. Comment on: J Trauma 1997 Jan;42(1):1–5; discussion 5–6.

Impact of traumatic subarachnoid hemorrhage on outcome in nonpenetrating head injury. Part II: Relationship to clinical course and outcome variables during acute hospitalization [see comments] Greene KA, et al. **J Trauma** 1996 Dec;41(6):964–71. Comment in: J Trauma 1997 Jun;42(6):1196–7.

Impact of traumatic subarachnoid hemorrhage on outcome in nonpenetrating head injury. Part II: relationship to clinical course and outcome variables during acute hospitalization [letter; comment] Hall JR. **J Trauma** 1997 Jun;42(6):1196–7. Comment on: J Trauma 1996 Dec;41(6):964–71.

Early fracture fixation may be deleterious after head injury [letter; comment] Seligson D, et al. **J Trauma** 1997 May; 42(5):982–3. Comment on: J Trauma 1997 Jan;42(1):1–5; discussion 5–6.

Early fracture fixation may be deleterious after head injury [letter; comment] Starr AJ. **J Trauma** 1997 May;42(5):981; discussion 983. Comment on: J Trauma 1997 Jan;42(1):1–5; discussion 5–6.

Multimodal monitoring in patients with head injury: evaluation of the effects of treatment on cerebral oxygenation. Unterberg AW, et al. **J Trauma** 1997 May; 42(5 Suppl):S32–7

Value of recording duration of post-traumatic amnesia. Greenwood R. **Lancet** 1997 Apr 12;349(9058):1041–2

Neurological episodes after minor head injury and trigeminovascular activation. Sakas DE, et al. **Med Hypotheses** 1997 May;48(5):431–5 (48 ref.)

Posttraumatic movement disorders after moderate or mild head injury. Krauss JK, et al. **Mov Disord** 1997 May; 12(3):428–31

Brain tissue pO2-monitoring: catheterstability and complications. Dings J, et al. **Neurol Res** 1997 Jun; 19(3):241–5

Chronic post-traumatic headache often a myth? Warner JS, et al. **Neurology** 1996 Apr;46(4):915–6

Is memory loss without anatomical damage tantamount to a psychogenic deficit? The case of pure retrograde amnesia. Di Renzi E, et al. **Neuropsychologia** 1997 Jun;35(6):781–94

Non-invasive diagnosis of traumatic occlusion of extracranial internal carotid artery by magnetic resonance angiography. Göçer AI, et al. **Neurosurg Rev** 1996;19(4):281–3

Traumatic indirect carotid-cavernous fistula: report of two cases. Jacobson BE, et al. **Neurosurgery** 1996 Dec; 39(6):1235–7; discussion 1237–8

Posttraumatic gas-containing brain abscess caused by Clostridium perfringens with unique simultaneous fungal suppuration by Myceliophthora thermophila: case report. Tekkök IH, et al. **Neurosurgery** 1996 Dec;39(6):1247–51

Acute rupture of an arachnoid cyst after a minor head injury. Lipinski CA, et al. **Pediatr Emerg Care** 1997 Feb;13(1):27–8

Coagulopathy in pediatric abusive head trauma. Hymel KP, et al. **Pediatrics** 1997 Mar;99(3):371–5

Neurolytic interventions for upper extremity spasticity associated with head injury [letter] Loubser PG. **Reg Anesth** 1997 Jul-Aug;22(4):386–7

Visual recovery following treatment with very high dose corticosteroid in traumatic optic neuropathy. Chan TK, et al. **Singapore Med J** 1996 Apr;37(2):216–7

Derealisation following head injury: a case report. Chong SA. **Singapore Med J** 1995 Oct;36(5):568–9

Delayed intracranial haemorrhage in head injury. Zahari M, et al. **Singapore Med J** 1996 Jun;37(3):285–7 (17 ref.)

Anosmia following head trauma: preliminary study of steroid treatment. Ikeda K, et al. **Tohoku J Exp Med** 1995 Dec; 177(4):343–51

[Post-traumatic anterior pituitary insufficiency. Apropos of 2 cases] Doghri T, et al. **Ann Endocrinol (Paris)** 1996; 57(2):117–21 (Eng. Abstr.) **(Fre)**

[Post-traumatic hypopituitarism after skull injury: apropos of 3 cases] Mariani R, et al. **Arch Pediatr** 1996 Aug; 3(8):796–801 (Eng. Abstr.) **(Fre)**

[Pneumocephalus: a prognostic factor in head injuries. Results of a retrospective study of 167 patients] Squali J, et al. **Cah Anesthesiol** 1996;44(4):285–8 (Eng. Abstr.) **(Fre)**

[Temporal hemianopia and diabetes insipidus following head injury] Zaaroor M, et al. **Harefuah** 1997 Jan 1;132(1):14–5, 72 (Eng. Abstr.) **(Heb)**

[Hemolysis and multiple trauma. A clinical case report] Buzio M, et al. **Minerva Chir** 1997 Apr;52(4):485–7 (10 ref.) (Eng. Abstr.) **(Ita)**

[Effective treatment of a man with head injury and multiple rib fractures with epidural analgesia] Kariya N, et al. **Masui** 1996 Feb;45(2):223–6 (Eng. Abstr.) **(Jpn)**

[An elderly patient with traumatic acute subdural hematoma who "talked and deteriorated"] Komatsu H, et al. **Masui** 1996 Jun;45(6):746–9 (Eng. Abstr.) **(Jpn)**

[A case of cranial osteomyelitis after head injury with exaggeration and remission for thirty years] Onoue S, et al. **No Shinkei Geka** 1997 Jun;25(6):543–7 (Eng. Abstr.) **(Jpn)**

[Traumatic cerebral vasospasm] Taneda M. **No Shinkei Geka** 1996 Sep;24(9):785–93 (79 ref.) **(Jpn)**

[Isolated infranuclear oculomotor nerve palsy caused by traumatic midbrain hemorrhage: case report] Tokuno T, et al. **No Shinkei Geka** 1996 Sep;24(9):849–52 (Eng. Abstr.) **(Jpn)**

[Traumatic basilar artery dissection presenting with "locked-in" syndrome: report of a case] Ueyama T, et al. **No Shinkei Geka** 1996 Nov;24(11):1035–9 (Eng. Abstr.) **(Jpn)**

[Posttraumatic carotid-cavernous fistula: diagnosis and treatment--exemplified by a patient with a fistula following a blunt head injury] Dowżenko A, et al. **Neurol Neurochir Pol** 1997 Jan-Feb;31(1):181–6 (Eng. Abstr.) **(Pol)**

[Disordered visual functions in patients with a traumatic carotid-cavernous fistula] Ryzhova IP. **Lik Sprava** 1997 Mar-Apr;(2):25–31 (44 ref.) **(Rus)**

DIAGNOSIS

Cervical spine MRI in abused infants. Feldman KW, et al. **Child Abuse Negl** 1997 Feb;21(2):199–205

Features of pediatric head injury in Hong Kong. Hsiang JN, et al. **Childs Nerv Syst** 1996 Oct;12(10):611–4

Reflections on head injuries in sport and the concussion controversy [editorial] Cantu RC. **Clin J Sport Med** 1997 Apr;7(2):83–4

Magnetic resonance angiography in trauma. James CA. **Clin Neurosci** 1997;4(3):137–45 (19 ref.)

Approach to head trauma in childhood in a district general hospital. Loroni L, et al. **Eur J Emerg Med** 1996 Sep; 3(3):141–8

Comparison of the APACHE III, APACHE II and Glasgow Coma Scale in acute head injury for prediction of mortality and functional outcome. Cho DY, et al. **Intensive Care Med** 1997 Jan;23(1):77–84

Initial assessment and outcome of head injured patients transferred to a regional neurosurgical service: what do we miss? Grant PT, et al. **J Accid Emerg Med** 1997 Jan; 14(1):10–2

SPECT, CT, and MRI in head injury: acute abnormalities followed up at six months. Mitchener A, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):633–6

Does routine follow up after head injury help? A randomised controlled trial. Wade DT, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):478–84

Near-infrared spectroscopy [letter; comment] Misra M, et al. **J Neurosurg** 1996 Aug;85(2):363–4. Comment on: J Neurosurg 1995 Dec;83(6):963–70.

Evaluation of the transient hyperemic response test in head-injured patients. Smielewski P, et al. **J Neurosurg** 1997 May;86(5):773–8

Radiologic evaluation in patients with head injury. Brisman MH, et al. **Mt Sinai J Med** 1997 May;64(3):226–32 (22 ref.)

Skull fractures in infants and predictors of associated intracranial injury. Shane SA, et al. **Pediatr Emerg Care** 1997 Jun;13(3):198–203

Imaging of acute head injury. Murray JG, et al. **Semin Ultrasound CT MR** 1996 Jun;17(3):185–205

Management of head-injured patients in the emergency department: a practical protocol. Arienta C, et al. **Surg Neurol** 1997 Sep;48(3):213–9

[Temporary bone defect following cranial contusion in infants] Szénásy J, et al. **Orv Hetil** 1996 May 12; 137(19):1037–9 (Eng. Abstr.) **(Hun)**

[Head injuries in the pediatric emergency department: a 5-year experience at the Pediatric Clinic of Modena] Sturloni N, et al. **Pediatr Med Chir** 1997 Jan-Feb;19(1):43–8 (Eng. Abstr.) **(Ita)**

[MR imaging of traumatic head injuries using FLAIR technique] Ashikaga R, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1184–6 (Eng. Abstr.) **(Jpn)**

DIET THERAPY

Evaluation of a carbohydrate-free diet for patients with severe head injury. Ritter AM, et al. **J Neurotrauma** 1996 Aug;13(8):473–85

DRUG THERAPY

Out-of-hospital administration of mannitol to head-injured patients does not change systolic blood pressure. Sayre MR, et al. **Acad Emerg Med** 1996 Sep;3(9):840–8

Dihydroergotamine in the treatment of head injury--risk of gangrene and renal failure [letter; comment] Grände PO, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1255–7. Comment on: Acta Anaesthesiol Scand 1996 Mar;40(3):389–91.

Treatment of intracranial hypertension with indomethacin [letter; comment] Cold GE, et al. **Anesthesiology** 1996 Dec; 85(6):1499–501. Comment on: Anesthesiology 1995 Dec;83(6):1283–92.

Intravenous insulin-like growth factor-I (IGF-I) in moderate-to-severe head injury: a phase II safety and efficacy trial. Hatton J, et al. **J Neurosurg** 1997 May; 86(5):779–86

Pharmacokinetics of tirilazad and U-89678, an active, reduced metabolite, following acute head trauma in adults. Fleishaker JC, et al. **J Pharm Sci** 1997 Apr;86(4):434–7

ECONOMICS

The Industrial Commission looks at industrial head injuries. Otto G. **IMS Ind Med Surg** 1968 Jan;37(1):43–5

EPIDEMIOLOGY

Gender patterns in minor head and neck injuries: an analysis of casualty register data. Bring G, et al. **Accid Anal Prev** 1996 May;28(3):359–69

Trends in cycle injury in New Zealand under voluntary helmet use. Scuffham PA, et al. **Accid Anal Prev** 1997 Jan; 29(1):1–9

Features of pediatric head injury in Hong Kong. Hsiang JN, et al. **Childs Nerv Syst** 1996 Oct;12(10):611–4

Head, neck, and facial injuries in ice hockey: the effect of protective equipment. Rampton J, et al. **Clin J Sport Med** 1997 Jul;7(3):162–7

The Oxfordshire Head Injury Register. Moss NE, et al. **Disabil Rehabil** 1996 Apr;18(4):169–73

Epidemiology of bicycle injuries and risk factors for serious injury. Rivara FP, et al. **Inj Prev** 1997 Jun;3(2):110–4

Head injuries in the Republic of Ireland: a neurosurgical audit. O'Brien DP, et al. **Ir Med J** 1996 Nov-Dec; 89(6):216–8

Skull fractures in children: a population study. Johnstone AJ, et al. **J Accid Emerg Med** 1996 Nov;13(6):386–9

Gunshot wounds to the head in Florence County. Rhea AH, et al. **J S C Med Assoc** 1997 Mar;93(3):107–11

Head, face, and neck trauma from large animal injury in New Mexico. Temes RT, et al. **J Trauma** 1997 Sep;43(3):492–5

Bull riding-related brain and spinal cord injuries--Louisiana, 1994–1995. **MMWR Morb Mortal Wkly Rep** 1996 Sep 20; 45(37):796–8

Pediatric head injuries and deaths from bicycling in the United States. Sosin DM, et al. **Pediatrics** 1996 Nov; 98(5):868–70

Head injury and malingering: current research. Piotrowski C. **Percept Mot Skills** 1997 Apr;84(2):426

Injuries related to logging: epidemiology, etiology and implications for prevention. Williams JM, et al. **W V Med J** 1996 Nov-Dec;92(6):320–3

[Characteristics of head trauma in children: epidemiology and a 5-year follow-up] Masson F, et al. **Arch Pediatr** 1996 Jul;3(7):651–60 (Eng. Abstr.) **(Fre)**

[Head injuries in children and adolescents: epidemiology and prevention] Papazian O, et al. **Rev Neurol** 1996 Nov; 24(135):1398–407 (38 ref.) **(Spa)**

ETIOLOGY

The worst headache of my life: an unusual presentation of gunshot wound to the head [letter] Perron AD, et al. **Am J Emerg Med** 1997 Jan;15(1):105–6

Estimates of injury impairment after acute traumatic injury in motorcycle crashes before and after passage of a mandatory helmet use law. Peek-Asa C, et al. **Ann Emerg Med** 1997 May;29(5):630–6

Suicide with an air rifle. Pottker TI, et al. **Ann Emerg Med** 1997 Jun;29(6):818–20

Mechanisms of burn injury secondary to airbag deployment. Hallock GG. **Ann Plast Surg** 1997 Aug;39(2):111–3

Minor head injury. Beattie TF. **Arch Dis Child** 1997 Jul; 77(1):82–5 (34 ref.)

Head injury--abuse or accident? Wilkins B. **Arch Dis Child** 1997 May;76(5):393–6; discussion 396–7 (58 ref.)

Head, face and neck injuries in hockey: a descriptive analysis. Deady B, et al. **J Emerg Med** 1996 Sep-Oct;14(5):645–9

Head injuries due to falls caused by seizures: a group at high risk for traumatic intracranial hematomas. Zwimpfer TJ, et al. **J Neurosurg** 1997 Mar;86(3):433–7

Severe head injury caused by airbag deployment. Hollands CM, et al. **J Trauma** 1996 Nov;41(5):920–2

Lethal airbag injury in an infant. Hollands CM, et al. **Pediatr Emerg Care** 1996 Jun;12(3):201–2

Infant walker injuries persist in Canada after sales have ceased. Morrison CD, et al. **Pediatr Emerg Care** 1996 Jun; 12(3):180–2

Intracranial hematoma in experienced teenage equestrians. McAbee GN, et al. **Pediatr Neurol** 1996 Oct;15(3):235–6

[Head injuries in children and adolescents: causes and natures] Chen CL, et al. **Chang Keng I Hsueh** 1995 Dec; 18(4):353–60 (Eng. Abstr.) **(Chi)**

[Trauma to the anterior cranial base. Report of a case] Spallaccia F, et al. **Minerva Stomatol** 1996 Jun;45(6):289–93 (Eng. Abstr.) **(Ita)**

[Minor athletic head injuries (letter)] Austgulen OK. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):410 **(Nor)**

[Penetrating head and neck gunshot injuries. A 10-year neurological material] Berg-Johnsen, et al.
Tidsskr Nor Laegeforen 1997 Jan 20;117(2):236-40 (Eng. Abstr.) **(Nor)**

[Minor head injuries in sport. Occurrence, management, sequelae and prevention] Ingebrigtsen T, et al.
Tidsskr Nor Laegeforen 1996 Dec 10;116(30):3594-7 (39 ref.) (Eng. Abstr.) **(Nor)**

[Mild craniocervical trauma] Volkov SV.
Zh Vopr Neirokhir Im N N Burdenko 1996 Oct-Dec; (4):28-33 (139 ref.) **(Rus)**

METABOLISM

Lactic acid and amino acid fluctuations measured using microdialysis reflect physiological derangements in head injury. Goodman JC, et al.
Acta Neurochir Suppl (Wien) 1996;67:37-9

A new screwing device for fixing a microdialysis probe in critical care patients. Kanner A, et al.
Acta Neurochir Suppl (Wien) 1996;67:63-5

Glutamate release and cerebral blood flow after severe human head injury. Zauner A, et al.
Acta Neurochir Suppl (Wien) 1996;67:40-4

Is beta-APP a marker of axonal damage in short-surviving head injury? McKenzie KJ, et al.
Acta Neuropathol (Berl) 1996 Dec;92(6):608-13

Monitoring of cerebral hemodynamics with jugular bulb catheters. Feldman Z, et al. **Crit Care Clin** 1997 Jan; 13(1):51-77 (76 ref.)

Effect of hyperventilation on regional cerebral blood flow in head-injured children [see comments] Skippen P, et al. **Crit Care Med** 1997 Aug;25(8):1402-9. Comment in: Crit Care Med 1997 Aug;25(8):1275-8.

Pathogenesis of posttraumatic headache and migraine: a common headache pathway? Packard RC, et al.
Headache 1997 Mar;37(3):142-52 (114 ref.)

Fluctuation of the volume of distribution of amikacin and its effect on once-daily dosage and clearance in a seriously ill patient [see comments] Botha FJ, et al.
Intensive Care Med 1996 May;22(5):443-6. Comment in: Intensive Care Med 1997 Feb;23(2):236-7.

Effect of acute phase response on phenytoin metabolism in neurotrauma patients. McKindley DS, et al.
J Clin Pharmacol 1997 Feb;37(2):129-39

Depletion of choline acetyltransferase activity but preservation of M1 and M2 muscarinic receptor binding sites in temporal cortex following head injury: a preliminary human postmortem study. Dewar D, et al.
J Neurotrauma 1996 Apr;13(4):181-7

Lactate and excitatory amino acids measured by microdialysis are decreased by pentobarbital coma in head-injured patients. Goodman JC, et al. **J Neurotrauma** 1996 Oct; 13(10):549-56

Energy expenditure in head-injured patients [letter] Murray MJ, et al. **JPEN J Parenter Enteral Nutr** 1996 Sep-Oct; 20(5):378-9

Dynamic changes of cerebral oxygenation measured by brain tissue oxygen pressure and near infrared spectroscopy. Holzschuh M, et al. **Neurol Res** 1997 Jun;19(3):246-8

A beta 42 is the predominant form of amyloid beta-protein in the brains of short-term survivors of head injury. Gentleman SM, et al. **Neuroreport** 1997 Apr 14; 8(6):1519-22

Presenilin-1 polymorphism and amyloid beta-protein deposition in fatal head injury. Zunarelli E, et al.
Neuroreport 1996 Dec 20;8(1):45-8

Increased tau immunoreactivity in oligodendrocytes following human stroke and head injury. Irving EA, et al. **Neurosci Lett** 1996 Aug 9;213(3):189-92

Modified hormonal effects on fat metabolism after severe head injury in children. Matthews DS, et al.
Pediatr Res 1996 Jun;39(6):1012-9

Predictive value of serum ionized but not total magnesium levels in head injuries. Memon ZI, et al.
Scand J Clin Lab Invest 1995 Dec;55(8):671-7

MORTALITY

Planned complex suicide. An unusual suicide by hanging and gunshot. Blanco-Pampin JM, et al.
Am J Forensic Med Pathol 1997 Mar;18(1):104-6

Fatal gunshot injury caused by an unusual projectile--a barrel-cleaning brush as a tandem bullet. Ellis PS.
Am J Forensic Med Pathol 1997 Jun;18(2):168-71

Commercial logging fatalities in Ontario, 1986-1991. West R, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):299-304

Endotracheal intubation in the field improves survival in patients with severe head injury. Trauma Research and Education Foundation of San Diego. Winchell RJ, et al. **Arch Surg** 1997 Jun;132(6):592-7

Defining the limits of survivorship after very severe head injury. Quigley MR, et al. **J Trauma** 1997 Jan;42(1):7-10

Outcome after severe head injury: an analysis of prediction based upon comparison of neural network versus logistic regression analysis. Lang EW, et al. **Neurol Res** 1997 Jun; 19(3):274-80

[Evaluation of treatment outcome in patients after extremely severe head injury (GCS 3-4)] Abraszko R, et al.
Neurol Neurochir Pol 1997 Jan-Feb;31(1):103-12 (Eng. Abstr.) **(Pol)**

NURSING

Assessing head injuries in children. Thomas R, et al.
MCN Am J Matern Child Nurs 1997 Jul-Aug; 22(4):198-202; quiz 203

PATHOLOGY

Is beta-APP a marker of axonal damage in short-surviving head injury? McKenzie KJ, et al.
Acta Neuropathol (Berl) 1996 Dec;92(6):608-13

An unusual death due to screwdriver impalement: A case report. Evans RJ, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):70-2

Backspatter from experimental close-range shots to the head. I. Macrobackspatter. Karger B, et al. **Int J Legal Med** 1996; 109(2):66-74

Shaken babies--some have no impact injuries [see comments] Gilliland MG, et al. **J Forensic Sci** 1996 Jan;41(1):114-6. Comment in: J Forensic Sci 1996 Sep;41(5):729-30.

A common morphological response of astrocytes to various injuries: "dark" astrocytes. A light and electron microscopic analysis. Tóth Z, et al. **J Hirnforsch** 1997;38(2):173-86

A head impact model of early axonal injury in the sheep. Lewis SB, et al. **J Neurotrauma** 1996 Sep;13(9):505-14

Clinicopathological heterogeneity in the classification of mild head injury. Culotta VP, et al. **Neurosurgery** 1996 Feb; 38(2):245-50

PHYSIOPATHOLOGY

The use of indomethacin to treat acute rises of intracranial pressure and improve global cerebral perfusion in a child with head trauma. Imberti R, et al.
Acta Anaesthesiol Scand 1997 Apr;41(4):536-40

Lactic acid and amino acid fluctuations measured using microdialysis reflect physiological derangements in head injury. Goodman JC, et al.
Acta Neurochir Suppl (Wien) 1996;67:37-9

Glutamate release and cerebral blood flow after severe human head injury. Zauner A, et al.
Acta Neurochir Suppl (Wien) 1996;67:40-4

Early and longtime modifications of temperature regulation after severe head injury. Prognostic implications. Behr R, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:722-32

The experiential impact of head injury on adolescents: individual perspectives on long-term outcome. Bogan AM, et al. **Brain Inj** 1997 Jun;11(6):431-43

Multimodal monitoring and assessment of cerebral haemodynamic reserve after severe head injury. Czosnyka M, et al. **Cerebrovasc Brain Metab Rev** 1996 Winter; 8(4):273-95 (124 ref.)

Prognostic significance of altered cerebral blood flow velocity in acute head trauma. Lee EJ, et al.
J Formos Med Assoc 1997 Jan;96(1):5-12

Does routine follow up after head injury help? A randomised controlled trial. Wade DT, et al.
J Neurol Neurosurg Psychiatry 1997 May;62(5):478-84

Monitoring weight drop velocity and foam stiffness as an aid to quality control of a rodent model of impact acceleration neurotrauma. Piper IR, et al.
J Neurosci Methods 1996 Nov;69(2):171-4

High-risk mild head injury. Hsiang JN, et al.
J Neurosurg 1997 Aug;87(2):234-8

Minor head injury [letter; comment] Macarthur DC, et al. **J Neurosurg** 1997 Sep;87(3):485-6. Comment on: J Neurosurg 1997 Mar;86(3):425-32.

Characterization of cerebral hemodynamic phases following severe head trauma: hypoperfusion, hyperemia, and vasospasm. Martin NA, et al. **J Neurosurg** 1997 Jul; 87(1):9-19

Fibrinolytic parameters as an admission prognostic marker of head injury in patients who talk and deteriorate. Takahashi H, et al. **J Neurosurg** 1997 May;86(5):768-72

The influence of acute and chronic alcohol treatment on brain edema, cerebral infarct volume and neurological outcome following experimental head trauma in rats. Shapira Y, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):118-27

Resuscitation of blood pressure and oxygenation. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):661-6 (15 ref.)

Evaluation of a carbohydrate-free diet for patients with severe head injury. Ritter AM, et al. **J Neurotrauma** 1996 Aug;13(8):473-85

Finite-element models of the human head. Voo K, et al.
Med Biol Eng Comput 1996 Sep;34(5):375-81 (25 ref.)

Early dynamics of acute extradural and subdural hematomas. Firsching R, et al. **Neurol Res** 1997 Jun;19(3):257-60

Review on traumatic subarachnoid hemorrhage. Kakarieka A. **Neurol Res** 1997 Jun;19(3):230-2 (47 ref.)

"One-way asynchrony" of burst-suppression activity. An DS, et al. **Neurophysiol Clin** 1996;26(5):329-34

Effect of short-duration hyperventilation during endotracheal suctioning on intracranial pressure in severe head-injured adults. Kerr ME, et al. **Nurs Res** 1997 Jul-Aug;46(4):195-201

Postural stability by computerized posturography in minor head trauma [letter; comment] Mandelbaum DE.
Pediatr Neurol 1997 Apr;16(3):259. Comment on: Pediatr Neurol 1996 Nov;15(4):299-301.

Use of near-infrared spectroscopy in the adult. Kirkpatrick PJ. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):701-5 (11 ref.)

Bizarre ECG in head injury mimicking ventricular tachycardia. Loke YK, et al. **Singapore Med J** 1997 Apr; 38(4):166-8

Monitoring of cerebral autoregulation in head-injured patients. Czosnyka M, et al. **Stroke** 1996 Oct;27(10):1829-34

Identification of posttraumatic ischemia and hyperperfusion by determination of the effect of induced arterial hypertension on carbon dioxide reactivity. Steiger HJ, et al. **Stroke** 1996 Nov;27(11):2048-51

[Anterior pituitary functions in patients with severe head injuries treated with moderate hypothermia] Hayashi S, et al. **No To Shinkei** 1996 Feb;49(2):145-50 (Eng. Abstr.) **(Jpn)**

PREVENTION & CONTROL

Protection of the side of the head. Gilchrist A, et al.
Accid Anal Prev 1996 Jul;28(4):525-35

Head injuries and bicycle helmet laws. Robinson DL.
Accid Anal Prev 1996 Jul;28(4):463-75

Re: "Case-control study of the effectiveness of different types of helmets for the prevention of head injuries among motorcycle riders in Taipei, Taiwan" [letter; comment] Povey WG, et al. **Am J Epidemiol** 1996 Oct 1;144(7):709-10 . Comment on: Am J Epidemiol 1995 Nov 1;142(9):974-81.

Evaluation of a four-year bicycle helmet promotion campaign in Quebec aimed at children ages 8 to 12: impact on attitudes, norms and behaviours. Farley C, et al.
Can J Public Health 1997 Jan-Feb;88(1):62-6

The influence of baseball modulus and mass on head and chest impacts: a theoretical study. Crisco JJ, et al.
Med Sci Sports Exerc 1997 Jan;29(1):26-36

[Head injuries in children and adolescents: epidemiology and prevention] Papazian O, et al. **Rev Neurol** 1996 Nov; 24(135):1398-407 (38 ref.) **(Spa)**

PSYCHOLOGY

Persistent neuropsychological deficits following whiplash: evidence for chronic mild traumatic brain injury? [see comments] Taylor AE, et al. **Arch Phys Med Rehabil** 1996 Jun;77(6):529-35. Comment in: Arch Phys Med Rehabil 1997 Mar;78(3):334-5.

Psychological problems following minor head injury: a prospective study. Wright JC, et al. **Br J Clin Psychol** 1996 Sep;35 (Pt 3):399-412

The experiential impact of head injury on adolescents: individual perspectives on long-term outcome. Bogan AM, et al. **Brain Inj** 1997 Jun;11(6):431-43

Correlation between the gross motor function measure scores and gait spatiotemporal measures in children with neurological impairments. Drouin LM, et al.
Dev Med Child Neurol 1996 Nov;38(11):1007-19

The use of P300 as a mental chronometer in closed head injury patients. Curry SH, et al.
Electroencephalogr Clin Neurophysiol Suppl 1996;46:283-99

The effect on patients of non-referral for skull radiography following mild head injury. McNally E, et al. **Injury** 1996 Jul;27(6):429-31

A review of mild head trauma. Part I: Meta-analytic review of neuropsychological studies. Binder LM, et al.
J Clin Exp Neuropsychol 1997 Jun;19(3):421-31

A review of mild head trauma. Part II: Clinical implications. Binder LM. **J Clin Exp Neuropsychol** 1997 Jun;19(3):432-57 (227 ref.)

Mild head injury and speed of information processing: a prospective study of professional rugby league players. Hinton-Bayre AD, et al. **J Clin Exp Neuropsychol** 1997 Apr;19(2):275-89

RADIOGRAPHY

Failure of the Miller criteria to predict significant intracranial injury in patients with a Glasgow Coma Scale score of 14 after minor head trauma. Holmes JF, et al.
Acad Emerg Med 1997 Aug;4(8):788-92

The impact of teleradiology on the inter-hospital transfer of neurosurgical patients. Goh KY, et al.
Br J Neurosurg 1997 Feb;11(1):52-6

Does teleradiology improve inter-hospital management of head-injury? Goh KY, et al. **Can J Neurol Sci** 1997 Aug; 24(3):235-9

The use of air weapons in attempted suicide. Campbell-Hewson G, et al. **Injury** 1997 Mar;28(2):153-8 (31 ref.)

The effect on patients of non-referral for skull radiography following mild head injury. McNally E, et al. **Injury** 1996 Jul;27(6):429-31

Guidelines for imaging children with head injuries in A&E departments [letter] McHugh K, et al.
J Accid Emerg Med 1997 Jan;14(1):58

Radiography for head trauma in children: what guidelines should we use? Moreea S, et al. **J Accid Emerg Med** 1997 Jan;14(1):13-5

Utilizing clinical factors to reduce head CT scan ordering for minor head trauma patients. Miller EC, et al.
J Emerg Med 1997 Jul-Aug;15(4):453-7

Angiography in the evaluation of head and neck trauma. Gaskill-Shipley MF, et al. **Neuroimaging Clin N Am** 1996 Aug;6(3):607-24 (69 ref.)

Early dynamics of acute extradural and subdural hematomas. Firsching R, et al. **Neurol Res** 1997 Jun;19(3):257-60

The utility of head computed tomographic scanning in pediatric patients with normal neurologic examination in the emergency department. Schunk JE, et al.

Pediatr Emerg Care 1996 Jun;12(3):160–5

Angulation of the pediatric cervical spine with and without cervical collar. Treloar DJ, et al. **Pediatr Emerg Care** 1997 Feb;13(1):5–8

[Selective indications of skull radiography after head injury in children] Toupin JM, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(3):201–07 (Eng. Abstr.) **(Fre)**

[Radiologic examination of patients with head injuries. Late sequelae of minor head injuries, a radiological challenge] Larsen JL, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30; 116(20):2464–6 (27 ref.) (Eng. Abstr.) **(Nor)**

[A study of referrals: what is the outcome of cranial computer tomography? Medical and economic benefits!] Nilsson J, et al. **Lakartidningen** 1996 Sep 25;93(39):3365–8 **(Swe)**

RADIONUCLIDE IMAGING

Functional brain imaging with cerebral perfusion SPECT in cerebrovascular disease, epilepsy, and trauma. Lewis DH. **Neurosurg Clin N Am** 1997 Jul;8(3):337–44 (72 ref.)

REHABILITATION

Staff stress in head injury rehabilitation; Brain Injury, 10(10): 779 [letter; comment] van den Broek M, et al. **Brain Inj** 1997 Jun;11(6):465–6. Comment on: Brain Inj 1996 Oct;10(10):779.

Interventions and service need following mild and moderate head injury: the Oxford Head Injury Service. King NS, et al. **Clin Rehabil** 1997 Feb;11(1):13–27

Functional recovery following head injury among children. Greenspan AI. **Curr Probl Pediatr** 1996 May–Jun; 26(5):170–7 (59 ref.)

The effect of casting combined with stretching on passive ankle dorsiflexion in adults with traumatic head injuries. Moseley AM. **Phys Ther** 1997 Mar;77(3):240–7; discussion 248–59

The effectiveness of various cervical orthoses. An in vivo comparison of the mechanical stability provided by several widely used models. Sandler AJ, et al. **Spine** 1996 Jul 15; 21(14):1624–9

SURGERY

"High risk" anterior basal skull fractures. Surgical treatment of 64 consecutive cases. Talamonti G, et al. **J Neurosurg Sci** 1995 Sep;39(3):191–7

Trauma systems and the neurosurgeon. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):647–51 (13 ref.)

Selection of appropriate recipient vessels in difficult, microsurgical head and neck reconstruction. Takamatsu A, et al. **J Reconstr Microsurg** 1996 Nov;12(8):499–507; discussion 508–13

Causes of infections and management results in penetrating craniocerebral injuries. Gönül E, et al. **Neurosurg Rev** 1997; 20(3):177–81

Air–gun pellet injuries to the head and neck. Amirjamshidi A, et al. **Surg Neurol** 1997 Apr;47(4):331–8

[Diagnostic and therapeutic problems in gunshot wounds] Reiss M, et al. **Laryngorhinootologie** 1996 Jul;75(7):426–32 (Eng. Abstr.) **(Ger)**

[Penetrating injury of the head, neck and chest by a nail–gun: a case report] Sasaoka Y, et al. **No Shinkei Geka** 1995 Dec; 23(12):1099–104 (Eng. Abstr.) **(Jpn)**

THERAPY

A new screwing device for fixing a microdialysis probe in critical care patients. Kanner A, et al. **Acta Neurochir Suppl (Wien)** 1996;67:63–5

CO(2) and indomethacin vasoreactivity in patients with head injury. Dahl B, et al. **Acta Neurochir (Wien)** 1996; 138(3):265–73

Management of minor head injuries in hospitals in Norway. Ingebrigtsen T, et al. **Acta Neurol Scand** 1997 Jan; 95(1):51–5

Thiamine deficiency in head injury: a missed insult? Ferguson RK, et al. **Alcohol Alcohol** 1997 Jul–Aug;32(4):493–500

Paravertebral block in head injured patient with chest trauma [letter] Williamson S, et al. **Anaesthesia** 1997 Mar; 52(3):284–5

Endotracheal intubation in the field improves survival in patients with severe head injury. Trauma Research and Education Foundation of San Diego. Winchell RJ, et al. **Arch Surg** 1997 Jun;132(6):592–7

Does teleradiology improve inter–hospital management of head–injury? Goh KY, et al. **Can J Neurol Sci** 1997 Aug; 24(3):235–9

Hypertonic saline and cerebral oxygen delivery in head–injured cats [letter; comment] Shackford SR. **Crit Care Med** 1996 Nov;24(11):1933–6. Comment on: Crit Care Med 1996 Jan;24(1):109–17.

Effect of hyperventilation on regional cerebral blood flow in head–injured children [see comments] Skippen P, et al. **Crit Care Med** 1997 Aug;25(8):1402–9. Comment in: Crit Care Med 1997 Aug;25(8):1275–8.

Guidelines for the management of severe head injury. Brain Trauma Foundation. Bullock R, et al. **Eur J Emerg Med** 1996 Jun;3(2):109–27 (46 ref.)

The effects of inverse ratio ventilation on intracranial pressure: a preliminary report. Clarke JP. **Intensive Care Med** 1997 Jan;23(1):106–9

Severe head injuries: an outcome prediction and survival analysis. Combes P, et al. **Intensive Care Med** 1996 Dec; 22(12):1391–5

Scalp lacerations demand careful attention before interhospital transfer of head injured patients. Fitzpatrick MO, et al. **J Accid Emerg Med** 1996 May;13(3):207–8

Head injury instructions: a time to unify. Parsley J, et al. **J Accid Emerg Med** 1997 Jul;14(4):238–9

Symptoms of neck artery compromise: case presentations of risk estimate for treatment. Combs SB, et al. **J Manipulative Physiol Ther** 1997 May;20(4):274–8

On guidelines for the management of the severe head injury [editorial] Kirkpatrick PJ. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):109–11

Effect of hemodilution with diaspirin cross–linked hemoglobin on intracranial pressure, cerebral perfusion pressure, and fluid requirements after head injury and shock. Chappell JE, et al. **J Neurosurg** 1997 Jan;86(1):131–8

Cerebral arteriovenous oxygen difference: a predictor of cerebral infarction and outcome in patients with severe head injury. Le Roux PD, et al. **J Neurosurg** 1997 Jul; 87(1):1–8

Research synthesis of controlled studies evaluating the effect of hypocapnia and airway protection on cerebral outcome. Dexter F. **J Neurosurg Anesthesiol** 1997 Jul;9(3):217–22

Abstracts from the J. Douglas Miller Memorial Meeting. Edinburgh, Scotland, October 16–18, 1996. **J Neurotrauma** 1997 Apr;14(4):251–80

The integration of brain–specific treatments into the initial resuscitation of the severe head injury patient. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):653–9 (19 ref.)

Resuscitation of blood pressure and oxygenation. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):661–6 (15 ref.)

Guidelines for the management of severe head injury. Brain Trauma Foundation, American Association of Neurological Surgeons, Joint Section on Neurotrauma and Critical Care. **J Neurotrauma** 1996 Nov;13(11):641–734

Guidelines for the management of severe head injury. Introduction. **J Neurotrauma** 1996 Nov;13(11):643–5

Indications for intracranial pressure monitoring. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov; 13(11):667–79 (52 ref.)

Intracranial pressure treatment threshold. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):681–3 (7 ref.)

Recommendations for intracranial pressure monitoring technology. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):685–92 (35 ref.)

The use of mannitol in severe head injury. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):705–9 (43 ref.)

The use of barbiturates in the control of intracranial hypertension. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):711–4 (15 ref.)

The role of glucocorticoids in the treatment of severe head injury. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):715–8 (19 ref.)

Critical pathway for the treatment of established intracranial hypertension. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov;13(11):719–20

The role of antiseizure prophylaxis following head injury. Brain Trauma Foundation. **J Neurotrauma** 1996 Nov; 13(11):731–4 (14 ref.)

14th Bodensee Symposium on Microcirculation: Small Volume Resuscitation in Head Injury. Bodensee, Germany, June 14–16, 1996. Proceedings. **J Trauma** 1997 May;42(5 Suppl):S1–75

Guidelines for the management of severe head injury: what we know and what we think we know. Chesnut RM. **J Trauma** 1997 May;42(5 Suppl):S19–22 (4 ref.)

Management of patients with severe head injury in the preclinical phase: a prospective analysis. Lehr D, et al. **J Trauma** 1997 May;42(5 Suppl):S71–5

Outcome after severe head injury: an analysis of prediction based upon comparison of neural network versus logistic regression analysis. Lang EW, et al. **Neurol Res** 1997 Jun; 19(3):274–80

A bolt from the blue: lightning strike to the head. Cherington M, et al. **Neurology** 1997 Mar;48(3):683–6

Angulation of the pediatric cervical spine with and without cervical collar. Treloar DJ, et al. **Pediatr Emerg Care** 1997 Feb;13(1):5–8

[Evidence–based guidelines for emergency treatment of severe cranial injuries] Astrup J. **Ugeskr Laeger** 1997 Mar 3;159(10):1459–60 **(Dan)**

[Treatment of acute cranial trauma in Denmark. Is there any need for structuring?] Koch–Jensen C, et al. **Ugeskr Laeger** 1997 Aug 18;159(34):5106 **(Dan)**

VETERINARY

Traumatic head injury in ruminant livestock. Finnie IW. **Aust Vet J** 1997 Mar;75(3):204–8 (29 ref.)

Head trauma. Hopkins AL. **Vet Clin North Am Small Anim Pract** 1996 Jul;26(4):875–91 (43 ref.)

HEAD INJURIES, CLOSED

see related

BRAIN INJURIES

Sports medicine. Concussion. Brukner P. **Aust Fam Physician** 1996 Sep;25(9):1445–8

Predictors of psychological health in caregivers of patients with closed head injury. Sander AM, et al. **Brain Inj** 1997 Apr;11(4):235–49

CLASSIFICATION

Alternative approaches to the assessment of mild head injury in athletes. Guskiewicz KM, et al. **Med Sci Sports Exerc** 1997 Jul;29(7 Suppl):S213–21

COMPLICATIONS

Psychosocial long–term outcome of severe head injury as perceived by patients, relatives, and professionals. Spatt J, et al. **Acta Neurol Scand** 1997 Mar;95(3):173–9

Traumatic aneurysm of the basilar artery. Quintana F, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):283–5

Delayed presentation of an epidural hematoma. Ferrera PC, et al. **Am J Emerg Med** 1997 Jan;15(1):76–8

Chronic extradural haematoma with delayed expansion. Manjunath–Prasad KS, et al. **Br J Neurosurg** 1997 Feb; 11(1):78–9

Traumatic haemorrhagic optic neuropathy: case report. Muthukumar N. **Br J Neurosurg** 1997 Apr;11(2):166–7

Cognitive slowing in closed–head injury. Ferraro FR. **Brain Cogn** 1996 Dec;32(3):429–40

Measures of prefrontal dysfunction after closed head injury. Gansler DA, et al. **Brain Cogn** 1996 Mar;30(2):194–204

White matter disease and dementia. Rao SM. **Brain Cogn** 1996 Jul;31(2):250–68 (161 ref.)

High–level linguistic disturbances subsequent to childhood closed head injury. Jordan FM, et al. **Brain Inj** 1996 Oct; 10(10):729–38

Post–traumatic stress disorder following minor and severe closed head injury: 10 single cases. McMillan TM. **Brain Inj** 1996 Oct;10(10):749–58

Early seizures after severe closed head injury. Lee ST, et al. **Can J Neurol Sci** 1997 Feb;24(1):40–3

Ketoprofen and carotico–cavernous fistula. Burton EA, et al. **Cephalalgia** 1997 Feb;17(1):40–1

A new perspective on the relationship between communication impairment and disempowerment following head injury in information exchanges. Togher L, et al. **Disabil Rehabil** 1996 Nov;18(11):559–66

Cranial nerve II–VII injuries in fatal closed head trauma. Mariak Z, et al. **Eur J Ophthalmol** 1997 Jan–Mar;7(1):68–72

Head injury and the risk of Alzheimer's disease: a case control study. Salib E, et al. **Int J Geriatr Psychiatry** 1997 Mar; 12(3):363–8

An exploratory stepwise discriminant function analysis of malingered and nondistorted responses to the Neuropsychological Symptom Inventory. Ridenour TA, et al. **Int J Neurosci** 1996 Oct;87(1–2):91–5

Sixth cranial nerve palsy following closed head injury in a child. Hollis GJ. **J Accid Emerg Med** 1997 May;14(3):172–5

Unusual post traumatic porencephaly. Madhu SV. **J Assoc Physicians India** 1995 May;43(5):366–7

Palinacousis after closed–head injury in a patient with schizophrenia [letter] Freudenreich O, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):94

Verbal rehearsal and memory in children with closed head injury: a quantitative and qualitative analysis. Harris JR. **J Commun Disord** 1996 Mar–Apr;29(2):79–93

Pseudoaneurysm of the superficial temporal artery: report of a case. Webber CM, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):166–9 (22 ref.)

The effect of a femoral fracture on concomitant closed head injury in patients with multiple injuries. McKee MD, et al. **J Trauma** 1997 Jun;42(6):1041–5

A case of contrecoup vestibular injury. Hardin MF. **Kans Med** 1996 Summer–Fall;97(2):14–5

Postconcussion syndrome occurs in children. Mittenberg W, et al. **Neuropsychology** 1997 Jul;11(3):447–52 (46 ref.)

Aetiology of pneumonia following isolated closed head injury. Cazzadori A, et al. **Respir Med** 1997 Apr; 91(4):193–9

Speech–language evaluation of closed head injured subjects in South Africa: cultural applicability and ecological validity of a test battery. Watt N, et al. **S Afr J Commun Disord** 1996;43:85–92

Mania following left hemisphere injury. Lim LC. **Singapore Med J** 1996 Aug;37(4):448–50 (18 ref.)

Growing fracture of the orbital roof. Jamjoom ZA. **Surg Neurol** 1997 Aug;48(2):184–8 (15 ref.)

Delayed extradural hematoma after mild head injury: report of three cases. Riesgo P, et al. **Surg Neurol** 1997 Sep; 48(3):226–31

The effect of severe closed head injury on the incidence of nosocomial infections. Fagerli J, et al. **W V Med J** 1996 Sep–Oct;92(5):265–7

[Post–traumatic focal dystonia after contralateral thalamic lesion] Tränkle R, et al. **Nervenarzt** 1997 Jun;68(6):521–4 (17 ref.) (Eng. Abstr.) **(Ger)**

[Ruptured traumatic aneurysms of the peripheral anterior cerebral artery: study of delayed hemorrhage after closed head injury] Sasaoka Y, et al. **No Shinkei Geka** 1997 Apr; 25(4):337–44 (26 ref.) (Eng. Abstr.) **(Jpn)**

[A pediatric case of cerebral infarction following minor head injury presenting interesting neuroradiological findings] Yoshida S, et al. **No Shinkei Geka** 1996 Apr;24(4):347–50 (Eng. Abstr.) **(Jpn)**

HEAD INJURIES, CLOSED

DIAGNOSIS

Neuropsychological function in patients with increased serum levels of protein S-100 after minor head injury. Waterloo K, et al. **Acta Neurochir (Wien)** 1997;139(1):26-31; discussion 31-2

Acute hypoglycemia masquerading as head trauma: a report of four cases. Luber SD, et al. **Am J Emerg Med** 1996 Oct;14(6):543-7

Semantic memory following pediatric head injury: relationship to age, severity of injury, and MRI. Levin HS, et al. **Cortex** 1996 Sep;32(3):461-78

Long-term follow up of children with head injuries-classified as "good recovery" using the Glasgow Outcome Scale: neurological, neuropsychological and magnetic resonance imaging results. Koelfen W, et al. **Eur J Pediatr** 1997 Mar; 156(3):230-5

Effects of headaches during neuropsychological testing of mild head injury patients. Tsushima WT, et al. **Headache** 1996 Nov-Dec;36(10):613-5

The continuum of deep/surface dyslexia. Nolan KA, et al. **J Psycholinguist Res** 1997 Jul;26(4):413-24

Diffusion- and T2-weighted MRI of closed-head injury in rats: a time course study and correlation with histology. Assaf Y, et al. **Magn Reson Imaging** 1997;15(1):77-85

MRI of head injury using FLAIR. Ashikaga R, et al. **Neuroradiology** 1997 Apr;39(4):239-42

Unilateral medial dislocation of the temporomandibular joint. Avrahami E, et al. **Neuroradiology** 1997 Aug;39(8):602-4

Magnetic resonance imaging in relation to functional outcome of pediatric closed head injury: a test of the Ommaya-Gennarelli model. Levin HS, et al. **Neurosurgery** 1997 Mar;40(3):432-40; discussion 440-1

Retropharyngeal pseudomeningocele after atlanto-occipital dislocation: report of two cases. Naso WB, et al. **Neurosurgery** 1997 Jun;40(6):1288-90; discussion 1290-1

Diagnosis of blunt carotid injury in patients with facial trauma. Marciani RD, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jan;83(1):5-9

Long-term outcome in infants with the shaking-impact syndrome. Duhaime AC, et al. **Pediatr Neurosurg** 1996 Jun; 24(6):292-8

Role of apnea in nonaccidental head injury. Johnson DL, et al. **Pediatr Neurosurg** 1995;23(6):305-10

Ocular manifestations in shaken baby syndrome. Wong JS, et al. **Singapore Med J** 1995 Aug;36(4):391-2

[Monitoring head trauma] Clavier N, et al. **Schweiz Med Wochenschr** 1997 Jun 21;127(25):1069-76 (53 ref.) (Eng. Abstr.) **(Fre)**

[Blank fright guns as assault weapons. Forensic medicine and legal aspects] Rothschild MA, et al. **Arch Kriminol** 1997 May-Jun;199(5-6):129-37 (Eng. Abstr.) **(Ger)**

[Primary traumatic midbrain syndrome--follow-up and prognosis of acute primary brain stem damage] Stein H, et al. **Zentralbl Chir** 1996;121(11):985-9 (Eng. Abstr.) **(Ger)**

[Clinical application of three dimensional ultrafast MR imaging to intracerebral traumatic lesions] Enomoto K, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1136-41 (Eng. Abstr.) **(Jpn)**

[Cognitive rehabilitation in closed head injuries in childhood and adolescence] Yelin B. **Rev Neurol** 1996 Nov; 24(135):1393-7 (20 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Cerebroprotective effect of stable nitroxide radicals in closed head injury in the rat. Beit-Yannai E, et al. **Brain Res** 1996 Apr 22;717(1-2):22-8

Cytokine production in the brain following closed head injury: dexanabinol (HU-211) is a novel TNF-alpha inhibitor and an effective neuroprotectant. Shohami E, et al. **J Neuroimmunol** 1997 Feb;72(2):169-77 (60 ref.)

Zinc supplementation is associated with improved neurologic recovery rate and visceral protein levels of patients with severe closed head injury. Young B, et al. **J Neurotrauma** 1996 Jan;13(1):25-34

Effect of VA-045, a novel apovincaminic acid derivative, on closed head injury-induced neurological dysfunction in aged rats. Okuyama S, et al. **Neurol Res** 1997 Jun; 19(3):300-4

Magnesium sulphate improves neurologic outcome following severe closed head injury in rats. Heath DL, et al. **Neurosci Lett** 1997 Jun 13;228(3):175-8

ECONOMICS

Taking care of money matters [letter; comment] Roskes EJ. **Am J Psychiatry** 1997 Jan;154(1):135; discussion 135-6. Comment on: Am J Psychiatry 1996 Jan;153(1):7-10.

Taking care of money matters [letter; comment] Tyndel M, et al. **Am J Psychiatry** 1997 Jan;154(1):135-6. Comment on: Am J Psychiatry 1996 Jan;153(1):7-10.

EPIDEMIOLOGY

Head injuries from bicycle accidents. Zentner J, et al. **Clin Neurol Neurosurg** 1996 Nov;98(4):281-5

Incidence of head injury: lasting effects among college students and working adults in the general population. Triplett G, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1344-6

ETIOLOGY

Head injuries in infants caused by falls from surfaces while restrained in car seats. Dixon JJ, et al. **J R Soc Med** 1997 Jun;90(6):335-6

IMMUNOLOGY

Expression of microglial markers in the human CNS after closed head injury. Engel S, et al. **Acta Neurochir Suppl (Wien)** 1996;66:89-95

Cytokine production in the brain following closed head injury: dexanabinol (HU-211) is a novel TNF-alpha inhibitor and an effective neuroprotectant. Shohami E, et al. **J Neuroimmunol** 1997 Feb;72(2):169-77 (60 ref.)

METABOLISM

Decrease in cerebral free magnesium concentration following closed head injury and effects of VA-045 in rats. Suzuki M, et al. **Gen Pharmacol** 1997 Jan;28(1):119-21

Reduced levels of antioxidants in brains of apolipoprotein E-deficient mice following closed head injury. Lomnitski L, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):669-73

MORTALITY

Long-term functional status and mortality of elderly patients with severe closed head injuries. Kilaru S, et al. **J Trauma** 1996 Dec;41(6):957-63

NURSING

Hope facilitating strategies for the family of the head injury patient. Johnson LH, et al. **J Neurosci Nurs** 1996 Aug; 28(4):259-66 (35 ref.)

PATHOLOGY

Light and electron microscope study of nerve cells in traumatic oedematous human cerebral cortex. Castejón OJ, et al. **Brain Inj** 1997 May;11(5):363-88

Investigation of morphological change of lateral and midline fluid percussion injury in rats, using magnetic resonance imaging. Iwamoto Y, et al. **Neurosurgery** 1997 Jan; 40(1):163-7

Fatal air bag mediated craniocervical trauma in a child. Willis BK, et al. **Pediatr Neurosurg** 1996 Jun;24(6):323-7

PHYSIOPATHOLOGY

Brain tissue pO2 in relation to cerebral perfusion pressure, TCD findings and TCD-CO2-reactivity after severe head injury. Dings J, et al. **Acta Neurochir (Wien)** 1996; 138(4):425-34

The time course and regional variations of lipid peroxidation after diffuse brain injury in rats. Hsiang JN, et al. **Acta Neurochir (Wien)** 1997;139(5):464-8

Measures of prefrontal dysfunction after closed head injury. Gansler DA, et al. **Brain Cogn** 1996 Mar;30(2):194-204

Visual electrodiagnostic findings in mild traumatic brain injury. Freed S, et al. **Brain Inj** 1997 Jan;11(1):25-36

Impact of skull fracture on neuropsychological functioning following closed head injury. Smith-Seemiller L, et al. **Brain Inj** 1997 Mar;11(3):191-6

Pathological laughter and crying in patients with closed traumatic brain injury. Zeilig G, et al. **Brain Inj** 1996 Aug; 10(8):591-7

Cerebroprotective effect of stable nitroxide radicals in closed head injury in the rat. Beit-Yannai E, et al. **Brain Res** 1996 Apr 22;717(1-2):22-8

Pictorial superiority during verbal learning tasks in moderate to severe closed head injury: additional evidence. Constantinidou F, et al. **J Gen Psychol** 1996 Jul; 123(3):173-84

Influence of closed head injury on isoflurane MAC in the rat. Shapira Y, et al. **J Neurosurg Anesthesiol** 1997 Jan; 9(1):51-7

An experimental model of closed head injury in mice: pathophysiology, histopathology, and cognitive deficits. Chen Y, et al. **J Neurotrauma** 1996 Oct;13(10):557-68

Zinc supplementation is associated with improved neurologic recovery rate and visceral protein levels of patients with severe closed head injury. Young B, et al. **J Neurotrauma** 1996 Jan;13(1):25-34

Early fracture fixation may be deleterious after head injury [see comments] Jaicks RR, et al. **J Trauma** 1997 Jan; 42(1):1-5; discussion 5-6. Comment in: J Trauma 1997 May;42(5):981; discussion 983. Comment in: J Trauma 1997 May;42(5):981-2; discussion 983. Comment in: J Trauma 1997 May;42(5):982-3.

Long-term functional status and mortality of elderly patients with severe closed head injuries. Kilaru S, et al. **J Trauma** 1996 Dec;41(6):957-63

Tremor due to infarction in the ventrolateral thalamus. Qureshi F, et al. **Mov Disord** 1996 Jul;11(4):440-4

Deficit in figure-ground segmentation following closed head injury. Baylis GC, et al. **Neuropsychologia** 1997 Aug; 35(8):1133-8

Cognitive activation during PET: a case study of monozygotic twins discordant for closed head injury. Kirkby BS, et al. **Neuropsychologia** 1996 Jul;34(7):689-97

Dual task performance after focal cerebral lesions and closed head injuries. Vilkki J, et al. **Neuropsychologia** 1996 Nov; 34(11):1051-6

Phasic arousal in response to auditory warnings after traumatic brain injury. Whyte J, et al. **Neuropsychologia** 1997 Mar;35(3):313-24

Motor and cognitive deficits in apolipoprotein E-deficient mice after closed head injury. Chen Y, et al. **Neuroscience** 1997 Oct;80(4):1255-62

Postural stability by computerized posturography in minor head trauma [see comments] Lahat E, et al. **Pediatr Neurol** 1996 Nov;15(4):299-301. Comment in: Pediatr Neurol 1997 Apr;16(3):259.

[Monitoring intracranial pressure with a "head injury" model: carbon dioxide (CO2)-pneumoperitoneum versus Laparolift procedure] Holthausen UH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:257-60 (Eng. Abstr.) **(Ger)**

[Monitoring intracranial pressure in patients with severe craniocerebral trauma (letter)] Trentz O. **Unfallchirurgie** 1997 Jun;23(3):85-6 **(Ger)**

PREVENTION & CONTROL

Helmets and bicycle-related injuries in Queensland [letter] Acton CH. **Med J Aust** 1997 Sep 15;167(6):338-9; discussion 339

Helmets and bicycle-related injuries in Queensland [letter] Colson M. **Med J Aust** 1997 Sep 15;167(6):339; discussion 339

Helmets and bicycle-related injuries in Queensland [letter] McDermott FT. **Med J Aust** 1997 Sep 15;167(6):338; discussion 339

Helmets and bicycle-related injuries in Queensland [letter; comment] Robinson DL. **Med J Aust** 1997 May 5; 166(9):510. Comment on: Med J Aust 1996 Sep 2;165(5):249-51.

Helmets and bicycle-related injuries in Queensland [letter] Simpson DA, et al. **Med J Aust** 1997 Sep 15;167(6):338; discussion 339

PSYCHOLOGY

Conversation with traumatically brain-injured individuals: a controlled study of behavioural changes and their impact. Bond F, et al. **Brain Inj** 1997 May;11(5):319-29

Screening for visual-perceptual deficits following closed head injury: a short form of the Visual Form Discrimination Test. Iverson GL, et al. **Brain Inj** 1997 Feb; 11(2):125-8

The spectrum of emotional distress and personality changes after minor head injury incurred in a motor vehicle accident. Parker RS. **Brain Inj** 1996 Apr;10(4):287-302

Miserable minority: emotional risk factors that influence the outcome of a mild traumatic brain injury. Ruff RM, et al. **Brain Inj** 1996 Aug;10(8):551-65

Forgetting from long-term memory in severe closed-head injury patients: effect of retrieval conditions and semantic organization. Carlesimo GA, et al. **Cortex** 1997 Mar; 33(1):131-42

Executive functioning following mild closed head injury. Stablum F, et al. **Cortex** 1996 Jun;32(2):261-78

Illusory safeguards: legitimizing distortion in recall with guidelines for forensic hypnosis--two case reports. Karlin RA. **Int J Clin Exp Hypn** 1997 Jan;45(1):18-40

Case study: topographical brain mapping in hostility following mild closed head injury. Demaree HA, et al. **Int J Neurosci** 1996 Oct;87(1-2):97-101

Behavioral outcomes after pediatric closed head injury: relationships with age, severity, and lesion size. Fletcher JM, et al. **J Child Neurol** 1996 Jul;11(4):283-90

Cognitive complaints in closed-head injury: relationship to memory test performance and emotional disturbance. Gass CS, et al. **J Clin Exp Neuropsychol** 1997 Apr;19(2):290-9

Deficits of attention after closed-head injury: slowness only? Spikman JM, et al. **J Clin Exp Neuropsychol** 1996 Oct; 18(5):755-67

Comparison of two computational formulas for a WAIS-R seven subtest short form. Iverson GL, et al. **J Clin Psychol** 1997 Aug;53(5):465-70

The effect of level of processing on perceptual and conceptual priming: control versus closed-head-injured patients. Vakil E, et al. **J Int Neuropsychol Soc** 1997 Jul; 3(4):327-36

Posttraumatic stress disorder, flashbacks, and pseudomemories in closed head injury. Bryant RA. **J Trauma Stress** 1996 Jul;9(3):621-9

Postconcussion syndrome occurs in children. Mittenberg W, et al. **Neuropsychology** 1997 Jul;11(3):447-52 (46 ref.)

Automatic process development following severe closed head injury. Schmitter-Edgecombe M, et al. **Neuropsychology** 1997 Apr;11(2):296-308

Motor and cognitive deficits in apolipoprotein E-deficient mice after closed head injury. Chen Y, et al. **Neuroscience** 1997 Oct;80(4):1255-62

Mild head injury in children and adolescents: a review of studies (1970-1995). Satz P, et al. **Psychol Bull** 1997 Sep; 122(2):107-31 (75 ref.)

RADIOGRAPHY

Sequential computerized tomography changes and related final outcome in severe head injury patients. Lobato RD, et al. **Acta Neurochir (Wien)** 1997;139(5):385-91

The spontaneous reabsorbtion of posttraumatic interhemispheric subdural haematoma. Urculo E, et al. **Acta Neurochir (Wien)** 1996;138(6):776-7

Variation in ED use of computed tomography for patients

with minor head injury. Stiell IG, et al. **Ann Emerg Med** 1997 Jul;30(1):14–22

Mild head injury: differences in prognosis among patients with a Glasgow Coma Scale score of 13 to 15 and analysis of factors associated with abnormal CT findings. Gómez PA, et al. **Br J Neurosurg** 1996 Oct;10(5):453–60

Inter-hemispheric scissure, a rare location for a traumatic subdural hematoma, case report and review of the literature. Rapanà A, et al. **Clin Neurol Neurosurg** 1997 May;99(2):124–9 (65 ref.)

Diagnosis of intracranial injury [letter] Gebara BM. **Lancet** 1997 May 31;349(9065):1628

Predictive value of skull radiography for intracranial injury in children with blunt head injury. Lloyd DA, et al. **Lancet** 1997 Mar 22;349(9055):821–4

Diagnosis of intracranial injury [letter] Powell JE, et al. **Lancet** 1997 May 31;349(9065):1627–8

Disappearing subdural hematomas in children. Duhaime AC, et al. **Pediatr Neurosurg** 1996 Sep;25(3):116–22

Delayed and progressive brain injury in children and adolescents with head trauma. Stein SC, et al. **Pediatr Neurosurg** 1995;23(6):299–304

RADIONUCLIDE IMAGING

One-year follow-up of technetium-99m-HMPAO SPECT in mild head injury. Jacobs A, et al. **J Nucl Med** 1996 Oct;37(10):1605–9

REHABILITATION

Rehabilitation challenges in craniospinal injury: two case reports. Nam AM, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):873–7 (19 ref.)

An integrated approach to team assessment in head injury. Body R, et al. **Brain Inj** 1996 Apr;10(4):311–8

Neuropsychological rehabilitation of mild traumatic brain injury. Cicerone KD, et al. **Brain Inj** 1996 Apr;10(4):277–86

Self-management in the treatment of ataxia: a case study in reducing ataxic tremor through relaxation and biofeedback. Guercio J, et al. **Brain Inj** 1997 May;11(5):353–62

Reaction time and variability 5 and 10 years after traumatic brain injury. Hetherington CR, et al. **Brain Inj** 1996 Jul; 10(7):473–86

Prevalence of impairments 5 years after a head injury, and their relationship with disabilities and outcome. Masson F, et al. **Brain Inj** 1996 Jul;10(7):487–97

Therapy methodology. Riding the bus: teaching an adult with a brain injury to use a transit system to travel independently to and from work. Newbigging ED, et al. **Brain Inj** 1996 Jul;10(7):543–50

SURGERY

Pseudoaneurysm of the anterior superficial temporal artery. Han K, et al. **Ann Plast Surg** 1996 Dec;37(6):650–3 (19 ref.)

Odontoid fractures in the child with neurological injury. Direct anterior osteosynthesis with a cortico-spongious screw and literature review. Godard J, et al. **Childs Nerv Syst** 1997 Feb;13(2):105–7 (14 ref.)

Tension pneumocephalus complicating lumboperitoneal shunt. M'uthukumar N, et al. **J Indian Med Assoc** 1996 Dec; 94(12):457, 459

Guidelines for treatment of head injury in adults. Opinions of a group of neurosurgeons. Fernandez R, et al. **Zentralbl Neurochir** 1997;58(2):72–4

[Noninvasive monitoring of cerebral oxygen saturation after severe craniocerebral trauma in a Jehovah's witness] Logemann F, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):385–90 (Eng. Abstr.) **(Ger)**

[Craniocerebral trauma in acute surgical management. Primary care in a general community hospital] Friedl W, et al. **Chirurg** 1996 Nov;67(11):1107–13 (Eng. Abstr.) **(Ger)**

THERAPY

Guidelines for minor head injured patients' management in adult age. The Study Group on Head Injury of the Italian Society for Neurosurgery. **J Neurosurg Sci** 1996 Mar; 40(1):11–5

The use of hypertonic saline for the treatment of increased intracranial pressure. Einhaus SL, et al. **J Tenn Med Assoc** 1996 Mar;89(3):81–2

[Treatment of drug-induced agranulocytosis with granulocyte colony stimulating factor (G-CSF) in a surgical intensive care unit] Huss B, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):529–30 (Eng. Abstr.) **(Ger)**

[Critical care of patients with increased intracranial pressure] Burchardi H, et al. **Zentralbl Neurochir** 1997;58(2):93–4 **(Ger)**

[Nutrition for patients with craniocerebral trauma] Dörr F, et al. **Zentralbl Neurochir** 1997;58(2):88–90 (19 ref.) **(Ger)**

[Fluid management of patients with craniocerebral trauma] Eckart J. **Zentralbl Neurochir** 1997;58(2):82–8 (47 ref.) **(Ger)**

[Cerebrovascular effects of analgosedation] Werner C, et al. **Zentralbl Neurochir** 1997;58(2):90–3 (22 ref.) **(Ger)**

HEAD MOVEMENTS

Relationship of the head impulse test and head-shake nystagmus in reference to caloric testing. Harvey SA, et al. **Am J Otol** 1997 Mar;18(2):207–13

A dynamical model for reflex activated head movements in the horizontal plane. Peng GC, et al. **Biol Cybern** 1996 Oct;75(4):309–19

A comparison of two control-display gain measures for head-controlled computer input devices. Schaab JA, et al. **Hum Factors** 1996 Sep;38(3):390–403

Influence of overt head movements on memory for valenced words: a case of conceptual-motor compatibility. Förster J, et al. **J Pers Soc Psychol** 1996 Sep;71(3):421–30

Noninvasive tracking of patient's head movements during computer-assisted intranasal microscopic surgery [published erratum appears in Laryngoscope 1997 Jul;107(7):1000–1] Hauser R, et al. **Laryngoscope** 1997 Apr; 107(4):491–9

The effect of accommodative hysteresis on apparent stationarity. Fisher K, et al. **Ophthalmic Physiol Opt** 1997 Mar;17(2):112–21

Measurement of head-turn in ocular torticollis. Spierer A, et al. **Ophthalmic Surg Lasers** 1997 May;28(5):424–5

Gaze stabilization by optokinetic reflex (OKR) and vestibulo-ocular reflex (VOR) during active head rotation in man. Schweigart G, et al. **Vision Res** 1997 Jun; 37(12):1643–52

DRUG EFFECTS

Differential potentiation of L-tryptophan-induced head-twitch response in mice by cocaine and sertraline. Darmani NA. **Life Sci** 1996;59(14):1109–19

The mechanism by which the selective 5-HT1A receptor antagonist S-(–) UH 301 produces head-twitches in mice. Darmani NA, et al. **Pharmacol Biochem Behav** 1996 Sep; 55(1):1–10

Suppressive effect of mitragynine on the 5-methoxy-N,N-dimethyltryptamine-induced head-twitch response in mice. Matsumoto K, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):319–23

alpha2-Adrenoceptor antagonists reverse the 5-HT2 receptor antagonist suppression of head-twitch behavior in mice. Matsumoto K, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):417–22

PHYSIOLOGY

Asymmetric optokinetic after-nystagmus induced by active or passive sustained head rotations. Karlberg M, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):647–51

Phase difference of vestibulo-ocular reflex in head autorotation test. Hirvonen TP, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:98–100

Changes in vestibulo-ocular reflex of elderly people. Hirvonen TP, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:108–10

Clinical significance of the subjective vertical in patients with unilateral vestibular disorders. Taguchi K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:74–6

Modeling study of compensatory head movements in lame horses. Vorstenbosch MA, et al. **Am J Vet Res** 1997 Jul; 58(7):713–8

Benign paroxysmal positional vertigo of posterior semicircular canal: results in 160 cases treated with Semont's maneuver. Serafini G, et al. **Ann Otol Rhinol Laryngol** 1996 Oct;105(10):770–5

Visual processing during high frequency head oscillation. Flipse JP, et al. **Aviat Space Environ Med** 1996 Jul; 67(7):625–32

Visual and vestibular influences on head-direction cells in the anterior thalamus of the rat. Blair HT, et al. **Behav Neurosci** 1996 Aug;110(4):643–60

Correlation between head direction cell activity and spatial behavior on a radial arm maze. Dudchenko PA, et al. **Behav Neurosci** 1997 Feb;111(1):3–19

Bobble-head doll syndrome associated with subduroperitoneal shunt malfunction. Ahn Y, et al. **Childs Nerv Syst** 1997 Apr;13(4):234–7

Neural mechanisms for heading and structure-from-motion perception. Andersen RA, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:15–25 (61 ref.)

Spatial orientation of semicircular canals and afferent sensitivity vectors in pigeons. Dickman JD. **Exp Brain Res** 1996 Sep;111(1):8–20

The effects of disorientation on visual landmark control of head direction cell orientation. Dudchenko PA, et al. **Exp Brain Res** 1997 Jun;115(2):375–80

Eye position and target amplitude effects on human visual saccadic latencies. Fuller JH. **Exp Brain Res** 1996 Jun; 109(3):457–66

Combined eye-head gaze shifts to visual and auditory targets in humans. Goldring JE, et al. **Exp Brain Res** 1996 Sep; 111(1):68–78

Human eye-head coordination in two dimensions under different sensorimotor conditions. Goossens HH, et al. **Exp Brain Res** 1997 May;114(3):542–60

Kinematics of the freely moving head and neck in the alert cat. Keshner EA, et al. **Exp Brain Res** 1997 Jun; 115(2):257–66

On the short-term adaptation of eye saccades and its transfer to head movements. Kröller J, et al. **Exp Brain Res** 1996 Oct;111(3):477–82

Effect of neck posture on patterns of activation of feline neck muscles during horizontal rotation. Thomson DB, et al. **Exp Brain Res** 1996 Aug;110(3):392–400

Pressor response elicited by nose-up vestibular stimulation in cats. Woodring SF, et al. **Exp Brain Res** 1997 Jan; 113(1):165–8

Automatic head positioning system using PSD-equipped camera-based photostereometry and a 5-degree-of-freedom robotized chair: calibration and accuracy verification. Nakamura Y, et al. **Front Med Biol Eng** 1997;8(1):47–63

Head movements in schizophrenia: new biological marker, critical neurological flaw, or artifact of subvocalization? Olevitch BA, et al. **Int J Neurosci** 1996 Dec;88(3–4):249–60

Evidence of the origin of specific spontaneous head turns during intertrial intervals. Korhonen T, et al. **Integr Physiol Behav Sci** 1997 Apr-Jun;32(2):123–30

Effect of head-centered and body-centered hemispace in unilateral neglect. Fujii T, et al. **J Clin Exp Neuropsychol** 1996 Dec;18(6):777–83

Image velocity magnitudes and perception of heading. Dyre BP, et al. **J Exp Psychol Hum Percept Perform** 1997 Apr; 23(2):546–65

Three-dimensional vector analysis of the human vestibuloocular reflex in response to high-acceleration head rotations. I. Responses in normal subjects. Aw ST, et al. **J Neurophysiol** 1996 Dec;76(6):4009–20

Three-dimensional vector analysis of the human vestibuloocular reflex in response to high-acceleration head rotations. II. responses in subjects with unilateral vestibular loss and selective semicircular canal occlusion. Aw ST, et al. **J Neurophysiol** 1996 Dec;76(6):4021–30

Eye-head coordination during head-unrestrained gaze shifts in rhesus monkeys. Freedman EG, et al. **J Neurophysiol** 1997 May;77(5):2328–48

Interaction of smooth pursuit and the vestibuloocular reflex in three dimensions. Misslisch H, et al. **J Neurophysiol** 1996 Jun;75(6):2520–32

Rostral fastigial nucleus activity in the alert monkey during three-dimensional passive head movements. Siebold C, et al. **J Neurophysiol** 1997 Mar;77(3):1432–46

Eye-centered, head-centered, and intermediate coding of remembered sound locations in area LIP. Stricanne B, et al. **J Neurophysiol** 1996 Sep;76(3):2071–6

A three-dimensional non-invasive study of head flexion and extension in young non-patient subjects. Ferrario VF, et al. **J Oral Rehabil** 1997 May;24(5):361–8

The relationship between dissociated vertical divergence (DVD) and head tilts. Bechtel RT, et al. **J Pediatr Ophthalmol Strabismus** 1996 Nov-Dec; 33(6):303–6

Reflex (unloading) and (defensive capitulation) responses in human neck muscle. Corna S, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):589–96

How to construct and move a cat's neck. Graf W, et al. **J Vestib Res** 1997 Mar-Jun;7(2-3):219–37

A review of adaptive change in musculoskeletal impedance during space flight and associated implications for postflight head movement control. McDonald PV, et al. **J Vestib Res** 1997 Mar-Jun;7(2-3):239–50 (63 ref.)

Eye-head coordination toward auditory and visual targets in humans. Zambarbieri D, et al. **J Vestib Res** 1997 Mar-Jun;7(2-3):251–63

Neurophysiological investigations in patients with head tremor. Valls-Solé J, et al. **Mov Disord** 1997 Jul; 12(4):576–84

Target predictability influences the distribution of coordinated eye-head gaze saccades in patients with homonymous hemianopia. Schoepf D, et al. **Neurol Res** 1996 Oct;18(5):425–39

The predictive brain: anticipatory control of head direction for the steering of locomotion. Grasso R, et al. **Neuroreport** 1996 Apr 26;7(6):1170–4

Postural stability of the head in response to slowly imposed, small elastic loads. Chan R, et al. **Neurosci Lett** 1996 Aug 23;214(2-3):205–7

The stimulatory and inhibitory components of cocaine's actions on the 5-HTP-induced 5-HT2A receptor response. Darmani NA, et al. **Pharmacol Biochem Behav** 1996 Nov; 55(3):387–96

Neural mechanisms of visual orienting responses. Sprague JM. **Prog Brain Res** 1996;112:1–15 (110 ref.)

Head-position-dependent adaptation of nonconcomitant vertical skew. Maxwell JS, et al. **Vision Res** 1997 Feb; 37(4):441–6

RADIATION EFFECTS

Complications associated with therapeutic neck radiation. August M, et al. **J Oral Maxillofac Surg** 1996 Dec; 54(12):1409–15; discussion 1415–6

HEAD NURSES see **NURSING, SUPERVISORY**

HEAD PROTECTIVE DEVICES

Can a combination of local, regional and national information substantially increase bicycle-helmet wearing and reduce injuries? Experiences from Sweden. Ekman R, et al. **Accid Anal Prev** 1997 May;29(3):321–8

Head injuries and bicycle helmet laws. Robinson DL. **Accid Anal Prev** 1996 Jul;28(4):463–75

HEAD PROTECTIVE DEVICES

Trends in cycle injury in New Zealand under voluntary helmet use. Scuffham PA, et al. **Accid Anal Prev** 1997 Jan; 29(1):1–9

Re: "Case–control study of the effectiveness of different types of helmets for the prevention of head injuries among motorcycle riders in Taipei, Taiwan" [letter; comment] Povey WG, et al. **Am J Epidemiol** 1996 Oct 1;144(7):709–10 . Comment on: Am J Epidemiol 1995 Nov 1;142(9):974–81.

Cervical spine alignment in the immobilized football player. Radiographic analysis before and after helmet removal. Swenson TM, et al. **Am J Sports Med** 1997 Mar–Apr; 25(2):226–30

Observational evaluation of compliance with traffic regulations among helmeted and nonhelmeted bicyclists [see comments] Farris C, et al. **Ann Emerg Med** 1997 May; 29(5):625–9. Comment in: Ann Emerg Med 1997 May;29(5):643–4.

Helmets work best [editorial; comment] Graitcer PL. **Ann Emerg Med** 1997 May;29(5):643–4 (10 ref.). Comment on: Ann Emerg Med 1997 May;29(5):625–9.

Estimates of injury impairment after acute traumatic injury in motorcycle crashes before and after passage of a mandatory helmet use law. Peek–Asa C, et al. **Ann Emerg Med** 1997 May;29(5):630–6

Children's bicycle helmet attitudes and use. Association with parental rules. The Pediatric Practice Research Group. Miller PA, et al. **Arch Pediatr Adolesc Med** 1996 Dec; 150(12):1259–64

Cyclists should wear helmets. Increasing the number of cyclists is more important [letter; comment] Davis A. **BMJ** 1997 Jan 4;314(7073):69. Comment on: BMJ 1996 Sep 7;313(7057):629.

Cyclists should wear helmets. Health benefits of cycling greatly outweigh loss of life years from deaths [letter; comment] Hillman M. **BMJ** 1997 Jan 4;314(7073):70. Comment on: BMJ 1996 Sep 7;313(7057):629.

Cyclists should wear helmets. Better to control the demand for fast cars [letter; comment] [see comments] Keatinge R. **BMJ** 1997 Jan 4;314(7073):70. Comment on: BMJ 1996 Sep 7;313(7057):629. Comment in: BMJ 1997 Mar 29;314(7085):977.

Cyclists should wear helmets [letter; comment] Piess B, et al. **BMJ** 1997 Mar 29;314(7085):977. Comment on: BMJ 1997 Jan 4;314(7073):70.

Cyclists should wear helmets. Australian laws making helmets compulsory deterred people from cycling [letter; comment] Robinson DL. **BMJ** 1997 Jan 4;314(7073):69–70 . Comment on: BMJ 1996 Sep 7;313(7057):629.

Cyclists should wear helmets. Motorists are the cause of the problem [letter; comment] Waterston T. **BMJ** 1997 Jan 4;314(7073):69. Comment on: BMJ 1996 Sep 7;313(7057):629.

The pattern of injury in fatal pedal cycle accidents and the possible benefits of cycle helmets. Kennedy A. **Br J Sports Med** 1996 Jun;30(2):130–3

Evaluation of a four–year bicycle helmet promotion campaign in Quebec aimed at children ages 8 to 12: impact on attitudes, norms and behaviours. Farley C, et al. **Can J Public Health** 1997 Jan–Feb;88(1):62–6

Children and cycle helmets — the case against. McCarthy M. **Child Care Health Dev** 1996 Mar;22(2):105–11

Children and cycle helmets: the case for. Sibert JR. **Child Care Health Dev** 1996 Mar;22(2):99–103

Head, neck, and facial injuries in ice hockey: the effect of protective equipment. Rampton J, et al. **Clin J Sport Med** 1997 Jul;7(3):162–7

Oculomotor responses with aviator helmet–mounted displays and their relation to in–flight symptoms. Kotulak JC, et al. **Hum Factors** 1995 Dec;37(4):699–710

Bicycle helmet laws: a current perspective. Borgialli DA. **J Am Osteopath Assoc** 1997 Jul;97(7):399–402 (25 ref.)

Efficacy of the Steri–Shield filtered exhaust helmet in limiting bacterial counts in the operating room during total joint arthroplasty. Shaw JA, et al. **J Arthroplasty** 1996 Jun; 11(4):469–73

Cycle helmets—when is legislation justified? Unwin NC. **J Med Ethics** 1996 Feb;22(1):41–5

Facial protection conferred by cycle safety helmets: use of digitized image processing to develop a new nondestructive test. Harrison M, et al. **J Trauma** 1997 Jul;43(1):78–82

Are fractures of the base of the skull influenced by the mass of the protective helmet? A retrospective study in fatally injured motorcyclists. Konrad CJ, et al. **J Trauma** 1996 Nov;41(5):854–8

The Colorado motorcycle safety survey: public attitudes and beliefs. Lowenstein SR, et al. **J Trauma** 1997 Jun; 42(6):1124–8

Do bicycle helmets protect, and should they be mandatory? [letter; comment] Bayliss J. **JAMA** 1997 Mar 19; 277(11):883; discussion 884. Comment on: JAMA 1996 Dec 25;276(24):1968–73. Comment on: JAMA 1996 Dec 25;276(24):1974–5.

Do bicycle helmets protect, and should they be mandatory? [letter; comment] Goldman D. **JAMA** 1997 Mar 19; 277(11):883–4; discussion 884. Comment on: JAMA 1996 Dec 25;276(24):1968–73. Comment on: JAMA 1996 Dec 25;276(24):1974–5.

Effectiveness of bicycle safety helmets in preventing head injuries. A case–control study [see comments] Thompson DC, et al. **JAMA** 1996 Dec 25;276(24):1968–73. Comment in: JAMA 1997 Mar 19;277(11):883; discussion 884. Comment in: JAMA 1997 Mar 19;277(11):883–4; discussion 884.

Effectiveness of bicycle safety helmets in preventing serious facial injury [see comments] Thompson DC, et al. **JAMA** 1996 Dec 25;276(24):1974–5. Comment in: JAMA 1997 Mar 19;277(11):883; discussion 884. Comment in: JAMA 1997 Mar 19;277(11):883–4; discussion 884.

Helmets and bicycle–related injuries in Queensland [letter] Acton CH. **Med J Aust** 1997 Sep 15;167(6):338–9; discussion 339

Helmets and bicycle–related injuries in Queensland [letter] Colson M. **Med J Aust** 1997 Sep 15;167(6):339; discussion 339

Helmets and bicycle–related injuries in Queensland [letter] McDermott FT. **Med J Aust** 1997 Sep 15;167(6):338; discussion 339

Helmets and bicycle–related injuries in Queensland [letter; comment] Robinson DL. **Med J Aust** 1997 May 5; 166(9):510. Comment on: Med J Aust 1996 Sep 2;165(5):249–51.

Helmets and bicycle–related injuries in Queensland [letter] Simpson DA, et al. **Med J Aust** 1997 Sep 15;167(6):338; discussion 339

Thermoregulatory responses to cycling with and without a helmet. Sheffield–Moore M, et al. **Med Sci Sports Exerc** 1997 Jun;29(6):755–61

Use of bicycle helmets by Greensboro children. Greer D, et al. **N C Med J** 1997 May–Jun;58(3):190–1; discussion 192

Diagnosis and management of posterior plagiocephaly. Pollack IF, et al. **Pediatrics** 1997 Feb;99(2):180–5

[Automobile head supports—adjustment possibilities and utilization. Results of a field study] Jerosch J, et al. **Unfallchirurg** 1997 Jul;100(7):561–7 (Eng. Abstr.) **(Ger)**

ECONOMICS

Does sharing the cost of a bicycle helmet help promote helmet use? Kim AN, et al. **Inj Prev** 1997 Mar;3(1):38–42

STANDARDS

Protection of the side of the head. Gilchrist A, et al. **Accid Anal Prev** 1996 Jul;28(4):525–35

Angles of entry of ultraviolet radiation into welding helmets. Tenkate TS, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):54–6

Evaluation of evaporative heat transfer characteristics of helmets. Liu X, et al. **Appl Human Sci** 1997 May; 16(3):107–13

Clothing in laminar–flow operating theatres. Hubble MJ, et al. **J Hosp Infect** 1996 Jan;32(1):1–7

Intracranial hematoma in experienced teenage equestrians. McAbee GN, et al. **Pediatr Neurol** 1996 Oct;15(3):235–6

UTILIZATION

Parental responses to a child bicycle helmet ordinance. Caplow MP, et al. **Am J Prev Med** 1995 Nov–Dec; 11(6):371–4

Do motorcycle helmets affect riders' vision and hearing? National Highway Traffic Safety Administration. **Ann Emerg Med** 1997 Feb;29(2):282–3

Effect of education and legislation on bicycle helmet use in a multiracial population. Abularrage JJ, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):41–4

Evaluation of a statewide bicycle helmet law via multiple measures of helmet use. Ni H, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):59–65

Crash helmets in Bali, Indonesia [letter] Chapman S. **Inj Prev** 1997 Mar;3(1):70

Giving your patients a sporting chance [editorial] Laskin DM. **J Oral Maxillofac Surg** 1997 Feb;55(2):113

The risky and protective motorcycling opinions and behaviours of young on–road motorcyclists in New Zealand. Reeder AI, et al. **Soc Sci Med** 1996 May; 42(9):1297–311

HEADACHE

Headaches in the accident and emergency department. Craig JJ, et al. **Br J Hosp Med** 1997 Mar 5–18;57(5):202–6 (12 ref.)

Long–term outcome of patients with headache and drug abuse after inpatient withdrawal: five–year follow–up. Schnider P, et al. **Cephalalgia** 1996 Nov;16(7):481–5; discussion 461

Headache. **Curr Opin Neurol** 1997 Jun;10(3):B66–71

Headache during pregnancy and in the postpartum: a prospective study. Scharff L, et al. **Headache** 1997 Apr; 37(4):203–10

Self–reported disability due to headache: a comparison of clinic patients and controls. Ziegler DK, et al. **Headache** 1996 Sep;36(8):476–80

Headaches in children and adolescents. Aneja S. **Indian Pediatr** 1996 Nov;33(11):921–31 (27 ref.)

Manipulation and cervicogenic headache [letter; comment] Yang K. **J Manipulative Physiol Ther** 1996 May;19(4):282 . Comment on: J Manipulative Physiol Ther 1995 Sep;18(7):435–40.

Oh, my aching head: treating headaches. Berlin B. **N J Med** 1997 Sep;94(9):49–51

Headache characteristics in university undergraduates presenting to medical attention. Ho KH, et al. **Singapore Med J** 1996 Dec;37(6):583–4

Headaches in children and adolescents. Rothner AD. **Va Med Q** 1996 Spring;123(2):90–3 (18 ref.)

[Headache in children] Gervil M. **Ugeskr Laeger** 1997 Apr 28;159(18):2680–5 (37 ref.) (Eng. Abstr.) **(Dan)**

[Headache and facial pain (editorial)] Mumenthaler M. **Ther Umsch** 1997 Feb;54(2):53 **(Ger)**

CEREBROSPINAL FLUID

Intracranial hypotension. Khurana RK. **Semin Neurol** 1996 Mar;16(1):5–10 (39 ref.)

CHEMICALLY INDUCED

Headache, circumoral paresthesia, and facial flushing associated with high–dose carmustine infusion. Woo MH, et al. **Bone Marrow Transplant** 1997 Apr;19(8):845–7

Strategies for diagnosing and managing medication–induced headache. Edmeads JG, et al. **Can Fam Physician** 1997 Jul; 43:1249–54 (42 ref.)

Headache induced by a nitric oxide donor (nitroglycerin) responds to sumatriptan. A human model for development of migraine drugs [see comments] Iversen HK, et al. **Cephalalgia** 1996 Oct;16(6):412–8. Comment in: Cephalalgia 1996 Oct;16(6):405.

Serotonin and analgesic–related headache [comment] Joseph R. **Cephalalgia** 1996 Oct;16(6):405. Comment on: Cephalalgia 1996 Oct;16(6):419–22. Comment on: Cephalalgia 1996 Oct;16(6):423–6.

Headache induced by serotonergic agonists—a key to the interpretation of migraine pathogenesis? Panconesi A, et al. **Cephalalgia** 1997 Feb;17(1):3–14 (147 ref.)

Serotonin receptor adaptation in patients with analgesic–induced headache [see comments] Srikiatkhachorn A, et al. **Cephalalgia** 1996 Oct;16(6):419–22 . Comment in: Cephalalgia 1996 Oct;16(6):405.

Platelet serotonin in patients with analgesic–induced headache [see comments] Srikiatkhachorn A, et al. **Cephalalgia** 1996 Oct;16(6):423–6. Comment in: Cephalalgia 1996 Oct;16(6):405.

Nitroglycerin–induced headache [editorial; comment] Van Gelderen EM, et al. **Cephalalgia** 1996 Oct;16(6):405. Comment on: Cephalalgia 1996 Oct;16(6):412–8.

Drug– and caffeine–induced headaches [letter] Shea PE. **CMAJ** 1997 Sep 1;157(5):510

Neurological disturbances due to filgrastim [letter] Schrijvers D, et al. **Lancet** 1997 Feb 8;349(9049):402–3

Postdural puncture headache: the betadine factor [letter] [see comments] Gurmarnik S, et al. **Reg Anesth** 1996 Jul–Aug; 21(4):375–6. Comment in: Reg Anesth 1997 May–Jun;22(3):297.

[The Chinese restaurant syndrome (letter)] García Ortiz JC, et al. **Med Clin (Barc)** 1996 Oct 19;107(13):518 **(Spa)**

CLASSIFICATION

Chronic post–traumatic headaches classified and compared with natural headaches [see comments] Haas DC. **Cephalalgia** 1996 Nov;16(7):486–93. Comment in: Cephalalgia 1996 Nov;16(7):461.

The International Headache Society classification and diagnostic criteria are valid and extremely useful. Olesen J. **Cephalalgia** 1996 Aug;16(5):293–5; discussion 295–6

The International Headache Society classification of chronic daily and near–daily headaches: a critique of the criticism. Olesen J, et al. **Cephalalgia** 1996 Oct;16(6):407–11 (33 ref.)

Are the International Headache Society criteria for headache useful? Pearce JM. **Cephalalgia** 1996 Aug;16(5):289–93; discussion 295–6

Headache intensity and quality of life in adolescents. How are changes in headache intensity in adolescents related to changes in experienced quality of life? Langeveld JH, et al. **Headache** 1997 Jan;37(1):37–42

Juvenile idiopathic stabbing headache. Soriani S, et al. **Headache** 1996 Oct;36(9):565–7

Diagnosis of primary headache disorders. Validity of the International Headache Society criteria in clinical practice. Solomon S. **Neurol Clin** 1997 Feb;15(1):15–26 (22 ref.)

Headache classification [letter; comment] Mannix LK, et al. **Neurology** 1997 Aug;49(2):638–9. Comment on: Neurology 1996 Oct;47(4):871–5.

What's in a name? The classification of common headaches [editorial] Ellis SJ. **Postgrad Med J** 1997 Apr;73(858):193

[Usefulness of headache classification in the planning of radiological studies] Bauherz G. **Rev Med Brux** 1996 Sep; 17(4):293–9 (15 ref.) (Eng. Abstr.) **(Fre)**

[Classification of headache] Mumenthaler M. **Ther Umsch** 1997 Feb;54(2):98–100 **(Ger)**

[The classification of headache] Kolosova OA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):8–11 **(Rus)**

COMPLICATIONS

Chronic headaches and sleep disorders. Paiva T, et al. **Arch Intern Med** 1997 Aug 11–25;157(15):1701–5

Recurrent paroxysmal headache associated with facial ecchymosis. Comabella M, et al. **Cephalalgia** 1996 Aug; 16(5):341–3

SUNCT syndrome associated with cavernous angioma of the brain stem. De Benedittis G. **Cephalalgia** 1996 Nov; 16(7):503–6

Headache caused by raised intracranial pressure and intracranial hypotension. Ramadan NM. **Curr Opin Neurol** 1996 Jun;9(3):214–8 (53 ref.)

Epileptic seizure during aspirin and caffeine withdrawal in a drug induced headache. Antonaci F, et al. **Funct Neurol** 1996 Nov-Dec;11(6):333-7

Headache and self-assessed depression scores in Singapore University undergraduates. Ho KH, et al. **Headache** 1997 Jan;37(1):26-30

The association between major depression and headache: results of a longitudinal epidemiologic study in youth. Pine DS, et al. **J Child Adolesc Psychopharmacol** 1996 Fall; 6(3):153-64

Head and neck pain review: traditional and new perspectives. Friedman MH, et al. **J Orthop Sports Phys Ther** 1996 Oct; 24(4):268-78 (79 ref.)

Headache in ambulatory HIV-1-infected men enrolled in a longitudinal study. Singer EJ, et al. **Neurology** 1996 Aug; 47(2):487-94

DIAGNOSIS

Raeder's paratrigeminal syndrome: a case report. Murnane M, et al. **Acad Emerg Med** 1996 Sep;3(9):864-7

Magnetic resonance imaging of cerebrospinal fluid leak and tamponade effect of blood patch in postdural puncture headache. Vakharia SB, et al. **Anesth Analg** 1997 Mar; 84(3):585-90

Spinal meningitis masquerading as postdural puncture headache [letter] Liu SS, et al. **Anesthesiology** 1996 Dec; 85(6):1493-4

Standards of care for treating headache in primary care practice. National Headache Foundation. Solomon GD, et al. **Cleve Clin J Med** 1997 Jul-Aug;64(7):373-83

International Headache Society classification and diagnostic criteria in children: a proposal for revision [letter; comment] Olesen J. **Dev Med Child Neurol** 1997 Feb; 39(2):138. Comment on: Dev Med Child Neurol 1995 Oct;37(10):879-82.

'Skin roll' ('pinch and roll') test: skinfold thickness and tenderness. Bansevicius D, et al. **Headache** 1997 May; 37(5):281-5

Two more secondary headaches mimicking chronic paroxysmal hemicrania. Is this the exception or the rule? Gatzonis S, et al. **Headache** 1996 Sep;36(8):511-3

Headache management made painless. Smith TB. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):143-6 (5 ref.)

Headache, a major symptom in Plasmodium vivax malaria; a clinical report [letter] Kabilan L, et al. **Indian J Med Sci** 1996 Oct;50(10):370-1

Initial evaluation of headache. Rubino FA. **J Fla Med Assoc** 1997 Jan;84(1):20-3 (17 ref.)

Recurrent headaches in children. Divertie VC. **MCN Am J Matern Child Nurs** 1996 Sep-Oct;21(5):235-40 (22 ref.)

Diagnosis of primary headache disorders. Validity of the International Headache Society criteria in clinical practice. Solomon S. **Neurol Clin** 1997 Feb;15(1):15-26 (22 ref.)

Headaches in children. When is a complete diagnostic workup indicated? Winner PK. **Postgrad Med** 1997 May; 101(5):81-5, 89-90 (22 ref.)

Pseudo-spinal headache. Dunteman E, et al. **Reg Anesth** 1996 Jul-Aug;21(4):358-60

[Medical imaging and headache: choice of studies and their economic impact] Osteaux M, et al. **Rev Med Brux** 1996 Sep;17(4):300-6 (Eng. Abstr.) **(Fre)**

[Emergency medicine for the practitioner: headaches (published erratum appears in Rev Med Suisse Romande 1997 May;117(5):5)] Higelin F, et al. **Rev Med Suisse Romande** 1997 Apr;117(4):295-8 **(Fre)**

[Clinical features of daily chronic headache] Iñiguez C, et al. **Rev Neurol** 1997 Jul;25(143):1034-7 (Eng. Abstr.) **(Spa)**

[The presentation form of headache in children] Rufo M, et al. **Rev Neurol** 1996 Mar;24(127):268-72 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

The use of sumatriptan in the treatment of postdural puncture headache [letter] Hodgson C, et al. **Anaesthesia** 1997 Aug; 52(8):808

Sumatriptan: an alternative to epidural blood patch? [letter] Lhuissier C, et al. **Anaesthesia** 1996 Nov;51(11):1078

Headache response to m-chlorophenylpiperazine in obsessive-compulsive disorder and normal controls. Wong CM, et al. **Biol Psychiatry** 1996 Sep 15;40(6):544-6

Self-medication of a single headache episode with ketoprofen, ibuprofen or placebo, home-monitored with an electronic patient diary. van Gerven JM, et al. **Br J Clin Pharmacol** 1996 Oct;42(4):475-81

Amitriptyline and dexamethasone combined treatment in drug-induced headache. Bonuccelli U, et al. **Cephalalgia** 1996 May;16(3):198-200

Ketoprofen and carotico-cavernous fistula. Burton EA, et al. **Cephalalgia** 1997 Feb;17(1):40-1

Nitric oxide synthase inhibition in the histamine headache model. Schmetterer L, et al. **Cephalalgia** 1997 May; 17(3):175-82

Risk factors for headache recurrence after sumatriptan: a study in 366 migraine patients [see comments] Visser WH, et al. **Cephalalgia** 1996 Jun;16(4):264-9. Comment in: Cephalalgia 1996 Jun;16(4):215-6.

Classical homeopathic treatment of chronic headaches. Walach H, et al. **Cephalalgia** 1997 Apr;17(2):119-26; discussion 101

Amitriptyline, a combined serotonin and noradrenaline re-uptake inhibitor, reduces exteroceptive suppression of temporal muscle activity in patients with chronic tension-type headache. Bendtsen L, et al. **Electroencephalogr Clin Neurophysiol** 1996 Oct; 101(5):418-22

Prolotherapy for chronic headache [letter] Abraham I. **Headache** 1997 Apr;37(4):256

Analgesic drug taking: beliefs and behavior among headache patients. Ferrari A, et al. **Headache** 1997 Feb;37(2):88-94

Continuous intravenous dihydroergotamine in the treatment of intractable headache. Ford RG, et al. **Headache** 1997 Mar;37(3):129-36

Prescribing practices for the management of headache in Newfoundland and Labrador. Furlong S, et al. **Headache** 1996 Oct;36(9):542-6

Intravenous magnesium sulfate rapidly alleviates headaches of various types. Mauskop A, et al. **Headache** 1996 Mar; 36(3):154-60

Headache management made painless. Smith TB. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):143-6 (5 ref.)

Postdural puncture headache and ACTH [letter] Gupta S, et al. **J Clin Anesth** 1997 May;9(3):258

Transformed migraine, analgesic rebound, and other chronic daily headaches. Mathew NT. **Neurol Clin** 1997 Feb; 15(1):167-186 (54 ref.)

Role and impact of over-the-counter medications in the management of headache. Sheftell FD. **Neurol Clin** 1997 Feb;15(1):187-98 (38 ref.)

Opioids in headache treatment. Is there a role? Ziegler DK. **Neurol Clin** 1997 Feb;15(1):199-207 (53 ref.)

Treatment-refractory cyclosporine-associated headache: relief with conversion to FK-506. Rozen TD, et al. **Neurology** 1996 Nov;47(5):1347

Serum beta-endorphin increase after intravenous histamine treatment of chronic daily headache. Anselmi B, et al. **Recenti Prog Med** 1997 Jul-Aug;88(7-8):321-4

Pseudo-spinal headache. Dunteman E, et al. **Reg Anesth** 1996 Jul-Aug;21(4):358-60

Diagnosis, prophylaxis, and treatment of headaches in the athlete. Swain RA, et al. **South Med J** 1997 Sep; 90(9):878-88 (52 ref.)

[Limits of sumatriptan in the treatment of headache after dura mater puncture (letter; comment)] Freiherr Von Hornstein W, et al. **Ann Fr Anesth Reanim** 1996; 15(2):229-31. Comment on: Ann Fr Anesth Reanim 1995;14(2):237. **(Fre)**

[Effectiveness of Oleum menthae piperitae and paracetamol in therapy of headache of the tension type] Göbel H, et al. **Nervenarzt** 1996 Aug;67(8):672-81 (Eng. Abstr.) **(Ger)**

[Preventive treatment of migraine and chronic tension headache with moclobemide] Meienberg O, et al. **Schweiz Rundsch Med Prax** 1997 Jul 2;86(27-28):1107-12 (Eng. Abstr.) **(Ger)**

[Pathophysiology and treatment of headache] Takahashi K. **Rinsho Shinkeigaku** 1996 Dec;36(12):1354-5 **(Jpn)**

ECONOMICS

Hospital-affiliated headache clinics in the managed care era. Green MW, et al. **Headache** 1996 Sep;36(8):503-5

Lost workdays and decreased work effectiveness associated with headache in the workplace. Schwartz BS, et al. **J Occup Environ Med** 1997 Apr;39(4):320-7

EPIDEMIOLOGY

The incidence of post dural puncture headache in Taiwanese patients undergoing cesarean section. Hwang JJ, et al. **Acta Anaesthesiol Sin** 1997 Mar;35(1):1-6

Headache of recent onset in adults: a prospective population-based study. Duarte J, et al. **Acta Neurol Scand** 1996 Jul;94(1):67-70

An epidemiologic study of headache among children and adolescents of southern Brazil. Barea LM, et al. **Cephalalgia** 1996 Dec;16(8):545-9; discussion 523

Migraine and tension-type headache are not separate disorders. Leston JA. **Cephalalgia** 1996 Jun;16(4):220-2

Migraine and tension-type headache are separate disorders. Rasmussen BK. **Cephalalgia** 1996 Jun;16(4):217-20; discussion 223

Demographic and clinical characteristics of patients with episodic migraine versus chronic daily headache. Rothrock J, et al. **Cephalalgia** 1996 Feb;16(1):44-9; discussion 4

Headache and human immunodeficiency virus infection: a case control study. Berger JR, et al. **Eur Neurol** 1996; 36(4):229-33

Headache in a population-based elderly cohort. An ancillary study to the Italian Longitudinal Study of Aging (ILSA). Franceschi M, et al. **Headache** 1997 Feb;37(2):79-82

Prevalence of migraine and headache in a high-altitude town of Peru: a population-based study. Jaillard AS, et al. **Headache** 1997 Feb;37(2):95-101

Prevalence of migraine and of headache [editorial] Lipton RB. **Headache** 1996 Sep;36(8):465

The prevalence of headache in Greece: correlations to latitude and climatological factors. Mitsikostas DD, et al. **Headache** 1996 Mar;36(3):168-73

Increasing prevalence of headache in 7-year-old schoolchildren. Sillanpää M, et al. **Headache** 1996 Sep; 36(8):466-70

Prevalence and clinical features of chronic daily headache in a headache clinic. Srikiatkhachorn A, et al. **Headache** 1997 May;37(5):277-80

Headache, snoring and sleep apnoea. Ulfberg J, et al. **J Neurol** 1996 Sep;243(9):621-5

Incidence of postdural puncture headache following spinal anaesthesia for lower segment caesarean section with the 25 gauge polymedic spinal needle. Ahsan S, et al. **JPMA J Pak Med Assoc** 1996 Dec;46(12):278-81

Sociodemographic factors and primary headache syndromes in a Saudi community. Abdul Jabbar M, et al. **Neuroepidemiology** 1997;16(1):48-52

Prevalence of headaches in a Chinese elderly population in Kinmen: age and gender effect and cross-cultural comparisons. Wang SJ, et al. **Neurology** 1997 Jul; 49(1):195-200

Prevalence of pain combinations and overall pain: a study of headache, stomach pain and back pain among school-children. Kristjánsdóttir G. **Scand J Soc Med** 1997 Mar;25(1):58-63

[Headache in general medicine: status and clinical evaluation] Roland M, et al. **Rev Med Brux** 1996 Sep;17(4):288-92 (Eng. Abstr.) **(Fre)**

[Health monitor (SERMO study)--concept, methodology and a paradigmatic result on subjective morbidity in headache] Schmeiser-Rieder A, et al. **Gesundheitswesen** 1997 Mar;59(3):144-9 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Clinical pearls. Headache and eye pain. Melanson SW, et al. **Acad Emerg Med** 1996 Sep;3(9):879-80, 892-4

Young adult with "worst ever headache" following mild trauma. Gates J, et al. **Acad Radiol** 1997 Apr;4(4):312-3

Intracranial subdural haematoma--a rare complication following spinal anaesthesia. Bjärnhall M, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1249-51

Grading of severity of postdural puncture headache after 27-gauge Quincke and Whitacre needles. Corbey MP, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):779-84

Postdural puncture headache: an unusual case and review. Fine PG, et al. **Acta Anaesthesiol Sin** 1996 Mar;34(1):33-5

Post dural puncture headache in cesarean section: comparison of 25-gauge Whitacre with 25- and 26-gauge Quincke needles. Hwang JJ, et al. **Acta Anaesthesiol Sin** 1997 Mar; 35(1):33-7

Prevalence of headache in schoolchildren: relation to family and school factors. Carlsson J. **Acta Paediatr** 1996 Jun; 85(6):692-6

Spinal headaches after myelograms: comparison of needle types. Prager JM, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1289-92

Nonmigrainous headache from food allergy. Stefanini GF, et al. **Allergy** 1996 Sep;51(9):657-8

Recognizing uncommon headache syndromes. Coutin IB, et al. **Am Fam Physician** 1996 Nov 15;54(7):2247-52 (25 ref.)

The worst headache of my life: an unusual presentation of gunshot wound to the head [letter] Perron AD, et al. **Am J Emerg Med** 1997 Jan;15(1):105-6

Prevention of headache after retrosigmoid removal of acoustic tumors. Catalano PJ, et al. **Am J Otol** 1996 Nov; 17(6):904-8

Pain subsequent to resection of acoustic neuromas via suboccipital and translabyrinthine approaches. Ruckenstein MJ, et al. **Am J Otol** 1996 Jul;17(4):620-4

Retrospective study of postcraniotomy headaches in suboccipital approach: diagnosis and management. Soumekh B, et al. **Am J Otol** 1996 Jul;17(4):617-9

Recurrence of post dural puncture headache [letter] Shah JL. **Anaesth Intensive Care** 1997 Aug;25(4):432

Immediate postdural puncture headache [letter] Collard E, et al. **Anaesthesia** 1997 Mar;52(3):288, 290

'Doctor, my ear is painful' [letter] Sutherland R. **Anaesthesia** 1997 Jul;52(7):719-20

The incidence of post dural puncture headache in children. Wee LH, et al. **Anaesthesia** 1996 Dec;51(12):1164-6

Postpartum dural venous sinus thrombosis after postdural puncture headache and epidural blood patch. Borum SE, et al. **Anesthesiology** 1997 Feb;86(2):487-90

Treatment of chronic paranasal sinus pain with minimal sinus disease [letter; comment] Harris NJ. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):357-8. Comment on: Ann Otol Rhinol Laryngol 1996 Aug;105(8):607-14.

Current opinions in etiopathogenesis of headaches caused by cervical spine pathology. Wojczal J. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:95-101 (16 ref.)

Restless legs syndrome [letter; comment] Hindmarsh JT. **Arch Intern Med** 1996 Nov 11;156(20):2390. Comment on: Arch Intern Med 1996 Feb 12;156(3):243-8.

Headache and testicular pain. Golledge C. **Aust Fam Physician** 1997 Aug;26(8):978

You're the flight surgeon: nasal congestion and increasing right-sided headaches. Little JR. **Aviat Space Environ Med** 1996 Oct;67(10):1002-4

Ice cream headache. Ice cream headache occurred during surfing in winter [letter] Harries M. **BMJ** 1997 Sep 6; 315(7108):609

Ice cream headache [editorial] Hulihan J. **BMJ** 1997 May 10;314(7091):1364

Ice cream headache. Cerebral vasoconstriction causing decrease in arterial flow may have role [letter] Sleigh JW. **BMJ** 1997 Sep 6;315(7108):609

Lumbovertebral syndrome after repeat extradural blood patch. Palmer JH, et al. **Br J Anaesth** 1997 Mar;78(3):334–6

Headache: not an ophthalmological problem? [letter; comment] Wessely S. **Br J Gen Pract** 1996 Feb; 46(403):122–3. Comment on: Br J Gen Pract 1995 Oct;45(399):562.

Ophthaproblem. Papilledema. Sharma S. **Can Fam Physician** 1996 Sep;42:1681, 1687

Findings of negligence followed communication lapses in BC aneurysm case [see comments] Capen K. **Can Med Assoc J** 1997 Jan 1;156(1):49–51. Comment in: CMAJ 1997 Jul 1;157(1):18, 20.

Influence of caffeine and caffeine withdrawal on headache and cerebral blood flow velocities. Couturier EG, et al. **Cephalalgia** 1997 May;17(3):188–90

Chronic post-traumatic headaches are not a myth [editorial; comment] Evans RW. **Cephalalgia** 1996 Nov;16(7):461. Comment on: Cephalalgia 1996 Nov;16(7):486–93.

Anginal headache and its basis. Grace A, et al. **Cephalalgia** 1997 May;17(3):195–6

Chronic post-traumatic headaches classified and compared with natural headaches [see comments] Haas DC. **Cephalalgia** 1996 Nov;16(7):486–93. Comment in: Cephalalgia 1996 Nov;16(7):461.

Phantom eye: features and prevalence. The predisposing role of headache. Nicolodi M, et al. **Cephalalgia** 1997 Jun; 17(4):501–4

Cervicogenic headache [letter; comment] Rothbart P. **Cephalalgia** 1996 May;16(3):206–8. Comment on: Cephalalgia 1995 Dec;15(6):463–9.

Recurrence of spontaneous intracranial hypotension with subdural hematomas. Sato Y, et al. **Cephalalgia** 1997 Feb; 17(1):42–5

Bilateral transient visual obscurations with headaches during alpha-II interferon therapy: a case report. Detry-Morel M, et al. **Eur J Ophthalmol** 1995 Oct-Dec;5(4):271–4

15-year-old boy with ocular palsy and headache. Invasive macroprolactinoma. Minniti G, et al. **Eur J Pediatr** 1996 Aug;155(8):717–9

Headache in transient ischaemic attacks. André C, et al. **Funct Neurol** 1996 Jul-Aug;11(4):195–200

Middle turbinate headache syndrome. Anselmo-Lima WT, et al. **Headache** 1997 Feb;37(2):102–6 (17 ref.)

Headache in Sweden: the importance of working conditions. Antonov K, et al. **Headache** 1997 Apr;37(4):228–34

Headache caused by a sphenoid mucocele but presenting as an ergotamine-induced headache. Bauer B, et al. **Headache** 1997 Jul-Aug;37(7):460–2

Overhead headaches: overhead hazards on commercial airplanes [letter] Evans RW. **Headache** 1997 Feb; 37(2):114–5

Relative contributions of life events versus daily hassles to the frequency and intensity of headaches. Fernandez E, et al. **Headache** 1996 Nov-Dec;36(10):595–602

Chronic intractable headache in a patient with Marfan's syndrome. Fukutake T, et al. **Headache** 1997 May; 37(5):291–5

Two more secondary headaches mimicking chronic paroxysmal hemicrania. Is this the exception or the rule? Gatzonis S, et al. **Headache** 1996 Sep;36(8):511–3

Psychosocial factors and prediction of headaches in college adults. Labbé EE, et al. **Headache** 1997 Jan;37(1):1–5

Pathogenesis of posttraumatic headache and migraine: a common headache pathway? Packard RC, et al. **Headache** 1997 Mar;37(3):142–52 (114 ref.)

Idiopathic hypertrophic cranial pachymeningitis: an unusual cause of subacute and chronic headache. Phanthumchinda K, et al. **Headache** 1997 Apr;37(4):249–52

Cervicogenic headache [letter; comment] Rothbart P. **Headache** 1996 Sep;36(8):516. Comment on: Headache 1995 Sep;35(8):461–4.

Post gamma knife headache: a new headache syndrome? Rozen TD, et al. **Headache** 1997 Mar;37(3):180–3 (10 ref.)

Transverse sinus thrombosis: an unusual cause of headache. Wasson J, et al. **Headache** 1997 Jul-Aug;37(7):457–9 (18 ref.)

Idiopathic intracranial hypertension in a young child without visual symptoms or signs. Winner P, et al. **Headache** 1996 Oct;36(9):574–6

Paroxysmal headache caused by colloid cyst of the third ventricle: case report and review of the literature. Young WB, et al. **Headache** 1997 Jan;37(1):15–20 (31 ref.)

Wegener's granulomatosis with dural involvement as the initial clinical manifestation. Shiotani A, et al. **Intern Med** 1997 Jul;36(7):514–8

Headache of unusual aetiology [letter] Mishra BM, et al. **J Assoc Physicians India** 1996 Oct;44(10):752

Hypertrophy of temporalis muscles due to chewing gum "abuse". Boltshauser E. **J Child Neurol** 1996 May;11(3):210

Postdural puncture headache and ACTH [letter] Gupta S, et al. **J Clin Anesth** 1997 May;9(3):258

Post-dural puncture headache and epidural blood patch in an AIDS patient [letter] Parris WC. **J Clin Anesth** 1997 Feb;9(1):87–8

ECG of the month. What's in the cards? Acute intracerebral hemorrhage. Martinez-Lopez JI. **J La State Med Soc** 1997 Mar;149(3):83–4

Wegener's granulomatosis presenting as a temporal headache. Makura ZG, et al. **J Laryngol Otol** 1996 Aug;110(8):802–4

Functional endoscopic sinus surgery in patients with sinugenic headache. Boonchoo R. **J Med Assoc Thai** 1997 Aug;80(8):521–6

Case report: CT and MRI of intracranial dermoid causing headache. Zimmerman JR, et al. **J Miss State Med Assoc** 1996 Mar;37(3):509–12

Chronic headaches due to vitamin A abuse [letter] Friedland S, et al. **J Neuroophthalmol** 1996 Mar;16(1):72

Some uncharacteristic clinical signs and symptoms of acoustic neuroma. Berrettini S, et al. **J Otolaryngol** 1997 Apr;26(2):97–103

Temporomandibular disorders, headaches, and neck pain after motor vehicle accidents: a pilot investigation of persistence and litigation effects. Kolbinson DA, et al. **J Prosthet Dent** 1997 Jan;77(1):46–53

Clinical manifestations of temporal arteritis: a report from Israel. Gur H, et al. **J Rheumatol** 1996 Nov;23(11):1927–31

A standardized manual tender point survey. I. Development and determination of a threshold point for the identification of positive tender points in fibromyalgia syndrome. Okifuji A, et al. **J Rheumatol** 1997 Feb;24(2):377–83

Thunderclap headache as first symptom of cerebral venous sinus thrombosis. CVST Study Group. de Bruijn SF, et al. **Lancet** 1996 Dec 14;348(9042):1623–5

A blinding headache. Embil JM, et al. **Lancet** 1997 Jul 19; 350(9072):182

Syndrome of orthostatic headaches and diffuse pachymeningeal gadolinium enhancement. Mokri B, et al. **Mayo Clin Proc** 1997 May;72(5):400–13

19-year-old man with headache and confusion. Razmi RM, et al. **Mayo Clin Proc** 1997 Apr;72(4):373–6

Short-lived head pains. Raskin NH. **Neurol Clin** 1997 Feb; 15(1):143–52 (44 ref.)

Posttraumatic headache [letter] Haas DC. **Neurology** 1997 Jun;48(6):1735

Cardiac cephalgia: a treatable form of exertional headache. Lipton RB, et al. **Neurology** 1997 Sep;49(3):813–6 (30 ref.)

Unusual causes of headache. Ramadan NM. **Neurology** 1997 Jun;48(6):1494–9 (50 ref.)

Posttraumatic headache [letter] Sternberg PE. **Neurology** 1997 Jun;48(6):1735

Chronic post-traumatic headache often a myth? Warner JS, et al. **Neurology** 1996 Apr;46(4):915–6

Adult Chiari malformation with headache and trigeminal dysesthesia. Storrs TJ, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Sep;82(3):284–7

Headache etiology in a pediatric emergency department. Burton LJ, et al. **Pediatr Emerg Care** 1997 Feb;13(1):1–4

MRI meningeal enhancement with intracranial hypotension caused by lumbar puncture. Krause I, et al. **Pediatr Neurol** 1997 Feb;16(2):163–5

Whiplash-associated chronic headache treated with home cervical traction. Olson VL. **Phys Ther** 1997 Apr; 77(4):417–24

Headache as a symptom of ominous disease. What are the warning signals? Dodick D. **Postgrad Med** 1997 May; 101(5):46–50, 55–6, 62–4 (9 ref.)

Headaches in older people. How are they different in this age-group? Edmeads J. **Postgrad Med** 1997 May; 101(5):91–4, 98–100 (18 ref.)

A pain in the head, or in the neck? Haslam D. **Practitioner** 1996 Dec;240(1569):711

Postmyelographic headaches [letter; comment] Hall FM, et al. **Radiology** 1997 May;203(2):579. Comment on: Radiology 1996 Sep;200(3):765–70. Comment on: Radiology 1996 Sep;200(3):771–8.

Post-dural puncture headache [letter; comment] Hoeffel CC. **Radiology** 1997 May;203(2):579–80. Comment on: Radiology 1996 Sep;200(3):765–70. Comment on: Radiology 1996 Sep;200(3):771–8.

Children with headache: clinical predictors of surgical space-occupying lesions and the role of neuroimaging. Medina LS, et al. **Radiology** 1997 Mar;202(3):819–24

Postmyelographic headaches [letter] Seibert CE. **Radiology** 1997 Oct;205(1):286–7

Postdural puncture headache [letter; comment] Glazener EL. **Reg Anesth** 1996 Jul-Aug;21(4):375. Comment on: Reg Anesth 1995 Jul-Aug;20(4):329–36.

Role of needle gauge and tip configuration in the production of lumbar puncture headache. Lambert DH, et al. **Reg Anesth** 1997 Jan-Feb;22(1):66–72

Successful use of epidural blood patch for postdural puncture headache following lumbar sympathetic block. Lehmann LJ, et al. **Reg Anesth** 1996 Jul-Aug;21(4):347–9

Postdural puncture headache and back pain after spinal anesthesia with 27-gauge Quincke and 26-gauge Atraucan needles. Schultz AM, et al. **Reg Anesth** 1996 Sep-Oct; 21(5):461–4

Late recurrence of postdural puncture headache. Sidebotham D, et al. **Reg Anesth** 1997 Jul-Aug;22(4):382–4

Lactation and headaches [letter; comment] Thorley V. **S D J Med** 1997 Feb;50(2):57. Comment on: S D J Med 1995 Nov;48(11):373–7.

Hearing loss and headache revealing lateral sinus thrombosis in a patient with factor V Leiden mutation [letter] Crassard I, et al. **Stroke** 1997 Apr;28(4):876–8

[Headache, fatigue and edema of the lower limbs during the third trimester of normal pregnancy] Lebech M, et al. **Ugeskr Laeger** 1996 Nov 18;158(47):6778–80 (Eng. Abstr.) **(Dan)**

[Clinical judgment and decision making in clinical practice. A patient with fever and neck pain (clinical conference) (see comments)] Gans RO, et al. **Ned Tijdschr Geneeskd** 1996 Oct 26;140(43):2122–7. Comment in: Ned Tijdschr Geneeskd 1996 Dec 21;140(51):2588. **(Dut)**

[Neuro-Behçet disease with solitary cerebral pseudotumor disclosed by headaches (letter)] Dupin M, et al. **Ann Med Interne (Paris)** 1996;147(7):524–6 **(Fre)**

[Early signs of sphenoid sinusitis: isolated febrile headache (letter)] Charpentier P, et al. **Presse Med** 1996 Oct 12; 25(30):1389 **(Fre)**

[Sentinel headache: a premonitory symptom too often unrecognized in intracranial ruptured aneurysm] Regli L, et al. **Schweiz Med Wochenschr** 1997 Apr 19;127(16):668–74 (34 ref.) (Eng. Abstr.) **(Fre)**

[Headache as the chief symptom. I] Paulus W. **HNO** 1996 Jan;44(1):33–47 (0 ref.) **(Ger)**

[Headache as the chief symptom. II] Paulus W. **HNO** 1996 Feb;44(2):101–12 (76 ref.) **(Ger)**

[Headache and the cervical spine. A critical review] Pöllmann W, et al. **Nervenarzt** 1996 Oct;67(10):821–36 (202 ref.) (Eng. Abstr.) **(Ger)**

[Incidence of postmyelography syndrome and postmyelography complaints after lumbar puncture with the Sprotte pencil-like needle in comparison with the Quincke needle] Fox RG, et al. **Radiologe** 1996 Nov; 36(11):921–7 (Eng. Abstr.) **(Ger)**

[Emergencies in neurological patients] Maire P. **Schweiz Rundsch Med Prax** 1997 Feb 18;86(8):286–91 (23 ref.) (Eng. Abstr.) **(Ger)**

[A case from practice (364)] Widmer A. **Schweiz Rundsch Med Prax** 1996 Nov 26;85(48):1562–4 **(Ger)**

[Headache in cervical syndrome] Dvorak J, et al. **Ther Umsch** 1997 Feb;54(2):94–7 (Eng. Abstr.) **(Ger)**

[The dangerous headache] Mumenthaler M. **Ther Umsch** 1997 Feb;54(2):79–82 (Eng. Abstr.) **(Ger)**

[Headache and teeth] Palla S. **Ther Umsch** 1997 Feb; 54(2):87–93 (Eng. Abstr.) **(Ger)**

["Functional" neurovascular decompressive surgery of cranial rhino- base in headaches with rhinogenic triggering] Bonaccorsi P. **Acta Otorhinolaryngol Ital** 1996 Jun; 16(3):254–60 (Eng. Abstr.) **(Ita)**

[Post dural puncture headache (PDPH) which occurred after the removal of an epidural catheter] Kaetsu H, et al. **Masui** 1996 Oct;45(10):1285–8 (Eng. Abstr.) **(Jpn)**

[Spontaneous intracranial hypotension with severe headache and typical neuroradiological findings: report of two cases] Kinoshita Y, et al. **No Shinkei Geka** 1997 May;25(5):437–42 (Eng. Abstr.) **(Jpn)**

[A 64-year-old woman with severe headache and progressive disturbance of consciousness (clinical conference)] Ito T, et al. **No To Shinkei** 1997 Jun; 49(6):571–81 (Eng. Abstr.) **(Jpn)**

[A patient with spontaneous intracranial hypotension--comparison between MRI findings and meningeal pathology] Niwa K, et al. **No To Shinkei** 1997 Jun;49(6):541–6 (Eng. Abstr.) **(Jpn)**

[Headache] Vein AM. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):5–7 (Eng. Abstr.) **(Rus)**

[Psychological approach to headaches in children and adolescents] Pedreira Massa JL. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Sep-Oct;24(5):293–9 (19 ref.) (Eng. Abstr.) **(Spa)**

[Headache in cerebral vascular diseases] Arboix A, et al. **Med Clin (Barc)** 1996 Nov 30;107(19):742–7 (85 ref.) **(Spa)**

[Chronic subdural hematoma secondary to an accidental dural puncture during lumbar epidural anesthesia] García-Sánchez MJ, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):327–9 (Eng. Abstr.) **(Spa)**

HISTORY

A sixth-century Irish headache cure and its use in a south German monastery. Isler H, et al. **Cephalalgia** 1996 Dec; 16(8):536–40

[Observations on the history of headache and migraine] Isler H. **Ther Umsch** 1997 Feb;54(2):54–6 **(Ger)**

IMMUNOLOGY

Food hypersensitivity and headaches in children and youth. Zagórecka E, et al. **Rocz Akad Med Bialymst** 1995; 40(3):550–6

METABOLISM

Neurotransmitters and neuropeptides in headache. Limmroth V, et al. **Curr Opin Neurol** 1996 Jun;9(3):206–10 (52 ref.)

Pathogenesis of posttraumatic headache and migraine: a common headache pathway? Packard RC, et al. **Headache** 1997 Mar;37(3):142–52 (114 ref.)

MICROBIOLOGY

A 'destructive' headache. Singh S, et al. **J R Soc Med** 1997 Apr;90(4):223–4

PATHOLOGY

Disc drusen: a headache for child and clinician. Chang A, et al. **Aust N Z J Ophthalmol** 1996 Nov;24(4):381–4

Sudden attacks of head pain in a young child. Bell WE, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):198–201

Headaches of recent onset and long-term learning disability. Bell WE. **Semin Pediatr Neurol** 1996 Sep;3(3):226–30

Neck pain and headache in an afebrile 15-year-old. Sheth RD, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):216-21

PHYSIOPATHOLOGY

Decreased pain detection and tolerance thresholds in chronic tension-type headache. Bendtsen L, et al. **Arch Neurol** 1996 Apr;53(4):373-6

A review of paroxysmal hemicranias, SUNCT syndrome and other short-lasting headaches with autonomic feature, including new cases. Goadsby PJ, et al. **Brain** 1997 Jan; 120 (Pt 1):193-209

Headache and scalp edema in sickle cell disease. Pari G, et al. **Can J Neurol Sci** 1996 Aug;23(3):224-6

Temporalis exteroceptive and tension-type headache [editorial; comment] [published erratum appears in Cephalalgia 1996 Aug;16(5):403] Aurora S. **Cephalalgia** 1996 Jun;16(4):216. Comment on: Cephalalgia 1996 Jun;16(4):251-6.

Exteroceptive suppression of temporal muscle activity is normal in chronic tension-type headache and not related to actual headache state [see comments] Bendtsen L, et al. **Cephalalgia** 1996 Jun;16(4):251-6. Comment in: Cephalalgia 1996 Jun;16(4):216.

Chronic daily headache with migrainous features due to papilledema-negative idiopathic intracranial hypertension. Huff AL, et al. **Cephalalgia** 1996 Oct;16(6):451-2

Migraine and tension-type headache are not separate disorders. Leston JA. **Cephalalgia** 1996 Jun;16(4):220-2

Headache recurrence [editorial; comment] Pfaffenrath V. **Cephalalgia** 1996 Jun;16(4):215-6. Comment on: Cephalalgia 1996 Jun;16(4):264-9.

Migraine and tension-type headache are separate disorders. Rasmussen BK. **Cephalalgia** 1996 Jun;16(4):217-20; discussion 223

The primary headache disorders--apple sauce or fruit cocktail? Tietjen GE. **Cephalalgia** 1996 Jun;16(4):223

Risk factors for headache recurrence after sumatriptan: a study in 366 migraine patients [see comments] Visser WH, et al. **Cephalalgia** 1996 Jun;16(4):264-9. Comment in: Cephalalgia 1996 Jun;16(4):215-6.

Cerebral and ocular hemodynamic effects of sumatriptan in the nitroglycerin headache model. Schmetterer L, et al. **Clin Pharmacol Ther** 1996 Aug;60(2):199-205

Headache. **Curr Opin Neurol** 1996 Jun;9(3):B60-5

Bench to bedside: what have we learnt recently about headache? Goadsby PJ. **Curr Opin Neurol** 1997 Jun; 10(3):215-20 (85 ref.)

'Skin roll' ('pinch and roll') test: skinfold thickness and tenderness. Bansevicius D, et al. **Headache** 1997 May; 37(5):281-5

SUNCT syndrome. Statuslike pattern. Pareja JA, et al. **Headache** 1996 Nov-Dec;36(10):622-4

SUNCT syndrome. A clinical review. Pareja JA, et al. **Headache** 1997 Apr;37(4):195-202 (23 ref.)

Juvenile idiopathic stabbing headache. Soriani S, et al. **Headache** 1996 Oct;36(9):565-7

Prevalence and clinical features of chronic daily headache in a headache clinic. Srikiatkhachorn A, et al. **Headache** 1997 May;37(5):277-80

Neck mobility in different headache disorders. Zwart JA. **Headache** 1997 Jan;37(1):6-11

Effects of food deprivation and a stressor on head pain. Martin PR, et al. **Health Psychol** 1997 Jul;16(4):310-8

Generalized EEG abnormalities in cluster headache [letter] Silvestri R, et al. **Ital J Neurol Sci** 1996 Apr;17(2):179

Molecular aspects of headaches and migraines. 7th International Headache Research Seminar. Copenhagen, Denmark, 22-24 November 1996. Edvinsson L, et al. **Mol Med Today** 1997 May;3(5):191-3

Sensitization of meningeal sensory neurons and the origin of headaches. Strassman AM, et al. **Nature** 1996 Dec 12; 384(6609):560-4

Clinical neurophysiology of headache. Schoenen J. **Neurol Clin** 1997 Feb;15(1):85-105 (140 ref.)

Headache in intracerebral hematomas. Melo TP, et al. **Neurology** 1996 Aug;47(2):494-500

Classification of daily and near-daily headaches: field trial of revised IHS criteria [see comments] Silberstein SD, et al. **Neurology** 1996 Oct;47(4):871-5. Comment in: Neurology 1997 Aug;49(2):638-9.

Evolution of the measurement of quality of life in migraine. Solomon GD. **Neurology** 1997 Mar;48(3 Suppl 3):S10-5 (33 ref.)

Neurochemicals, estrogen and headache [letter; comment] Limmroth V. **Pain** 1996 Oct;67(2-3):513. Comment on: Pain 1995 Aug;62(2):129-39.

[Exteroceptive suppression of activity of the temporal muscle. Principles and applications] Göbel H, et al. **Nervenarzt** 1996 Oct;67(10):846-59 (102 ref.) (Eng. Abstr.) **(Ger)**

[Pathophysiology and treatment of headache] Takahashi K. **Rinsho Shinkeigaku** 1996 Dec;36(12):1354-5 **(Jpn)**

[S.U.N.C.T. syndrome: report of a case preceded by ocular trauma] Piovesan EJ, et al. **Arq Neuropsiquiatr** 1996 Sep; 54(3):494-7 (Eng. Abstr.) **(Por)**

PREVENTION & CONTROL

Prevention of headache after retrosigmoid removal of acoustic tumors. Catalano PJ, et al. **Am J Otol** 1996 Nov; 17(6):904-8

Significant reduction of post-lumbar puncture headaches by the use of a 29-gauge spinal needle. McConaha C, et al. **Biol Psychiatry** 1996 Jun 15;39(12):1058-60

Postlumbar puncture headache [letter; comment] Toyka KV. **J Neurol Neurosurg Psychiatry** 1997 Apr;62(4):429. Comment on: J Neurol Neurosurg Psychiatry 1996 Jun;60(6):681-3.

Prophylactic intravenous administration of caffeine and recovery after ambulatory surgical procedures. Weber JG, et al. **Mayo Clin Proc** 1997 Jul;72(7):621-6

Should one reinsert the stylet during lumbar puncture? [letter] Strupp M, et al. **N Engl J Med** 1997 Apr 17;336(16):1190

PSYCHOLOGY

A quality of life instrument for adolescents with chronic headache. Langeveld JH, et al. **Cephalalgia** 1996 May; 16(3):183-96; discussion 137

Headache and neck or shoulder pain--family learnt illnesses behaviour? The Bardu Muscoloskeletal Study, 1989-1990. Hasvold T, et al. **Fam Pract** 1996 Jun;13(3):242-6

Analgesic drug taking: beliefs and behavior among headache patients. Ferrari A, et al. **Headache** 1997 Feb;37(2):88-94

Headache and self-assessed depression scores in Singapore University undergraduates. Ho KH, et al. **Headache** 1997 Jan;37(1):26-30

Headache intensity and quality of life in adolescents. How are changes in headache intensity in adolescents related to changes in experienced quality of life? Langeveld JH, et al. **Headache** 1997 Jan;37(1):37-42

Chronic daily headache. A clinical and psychological profile before and after treatment. Mongini F, et al. **Headache** 1997 Feb;37(2):83-7

Headache and stress in a group of nurses and government administrators in Japan. Nadaoka T, et al. **Headache** 1997 Jun;37(6):386-91

Effects of headaches during neuropsychological testing of mild head injury patients. Tsushima WT, et al. **Headache** 1996 Nov-Dec;36(10):613-5

Parent responses to pediatric headache. Wall BA, et al. **Headache** 1997 Feb;37(2):65-70

Cognitive processing in primary headache: a study on event-related potentials. Evers S, et al. **Neurology** 1997 Jan;48(1):108-13

Evolution of the measurement of quality of life in migraine. Solomon GD. **Neurology** 1997 Mar;48(3 Suppl 3):S10-5 (33 ref.)

Elements of neuroticism in relation to headache symptomatology. Kentle RL. **Psychol Rep** 1997 Feb; 80(1):227-35

[Headache and psyche] Barolin GS. **Ther Umsch** 1997 Feb; 54(2):71-8 (Eng. Abstr.) **(Ger)**

[Physician and the patient with headache] Mumenthaler M. **Ther Umsch** 1997 Feb;54(2):57-8 (Eng. Abstr.) **(Ger)**

[Stress, depression and anxiety in patients with headache. Considerations of literature and experimental data] Fulcheri M, et al. **Minerva Psichiatr** 1995 Dec;36(4):179-85 (48 ref.) (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Demonstration of frontal hypoperfusion in benign exertional headache by Technetium-99m-HMPAO SPECT. Başoglu T, et al. **J Nucl Med** 1996 Jul;37(7):1172-4

SURGERY

Cervicogenic headache. Long-term results of radiofrequency treatment of the planum nuchale. Sjaastad O, et al. **Funct Neurol** 1995 Nov-Dec;10(6):265-71

Outcome of surgical decompression of the second cervical root for cervicogenic headache [see comments] Pikus HJ, et al. **Neurosurgery** 1996 Jul;39(1):63-70; discussion 70-1. Comment in: Neurosurgery 1997 May;40(5):1105-6.

Outcome of surgical decompression of the second cervical root for cervicogenic headache [letter; comment] Stechison MT. **Neurosurgery** 1997 May;40(5):1105-6. Comment on: Neurosurgery 1996 Jul;39(1):63-70; discussion 70-1.

The place of endonasal endoscopy in the relief of middle turbinate sinonasal headache syndrome. El-Silimy O. **Rhinology** 1995 Dec;33(4):244-5

THERAPY

Recurrence of post dural puncture headache [letter] Francis PH. **Anaesth Intensive Care** 1997 Feb;25(1):93

Epidural blood patch for atypical headache following obstetric epidural analgesia. Yentis SM, et al. **Anaesthesia** 1997 Jan;52(1):62-4

Lumbar and thoracic epidural blood injections to treat spontaneous intracranial hypotension. Benzon HT, et al. **Anesthesiology** 1996 Oct;85(4):920-2

Pharmacologic management of postdural puncture headache. Choi A, et al. **Ann Pharmacother** 1996 Jul-Aug; 30(7-8):831-9 (62 ref.)

A retrospective, follow-up study of biofeedback-assisted relaxation therapy in patients with posttraumatic headache. Ham LP, et al. **Biofeedback Self Regul** 1996 Jun; 21(2):93-104

Epidural blood patch. Hardman JG, et al. **Br J Hosp Med** 1996 Sep 18-Oct 1;56(6):268-9

Home-based behavioral treatment for chronic benign headache [editorial; comment] Ellertsen B. **Cephalalgia** 1997 Apr;17(2):102. Comment on: Cephalalgia 1997 Apr;17(2):113-8.

Home-based behavioral treatments for chronic benign headache: a meta-analysis of controlled trials [see comments] Haddock CK, et al. **Cephalalgia** 1997 Apr; 17(2):113-8. Comment in: Cephalalgia 1997 Apr;17(2):102.

Standards of care for treating headache in primary care practice. National Headache Foundation. Solomon GD, et al. **Cleve Clin J Med** 1997 Jul-Aug;64(7):373-83

Special considerations in orofacial pain and headache. Austin DG. **Dent Clin North Am** 1997 Apr;41(2):325-39 (82 ref.)

Effects of a mass media behavioral treatment for chronic headache: a pilot study. de Bruijn-Kofman AT, et al. **Headache** 1997 Jul-Aug;37(7):415-20

Botulinum toxin injection for cervicogenic headache. Hobson DE, et al. **Headache** 1997 Apr;37(4):253-5

Chronic daily headache. A clinical and psychological profile before and after treatment. Mongini F, et al. **Headache** 1997 Feb;37(2):83-7

The effect of spinal manipulation in the treatment of cervicogenic headache. Nilsson N, et al. **J Manipulative Physiol Ther** 1997 Jun;20(5):326-30

The effectiveness of chiropractic manipulation in the treatment of headache: an exploration in the literature. Vernon HT. **J Manipulative Physiol Ther** 1995 Nov-Dec; 18(9):611-17

Behavioural assessment and treatment of chronic headaches in children. King NJ, et al. **J Paediatr Child Health** 1996 Oct;32(5):359-61 (15 ref.)

A school-based, nurse-administered relaxation training for children with chronic tension-type headache. Larsson B, et al. **J Pediatr Psychol** 1996 Oct;21(5):603-14

Whiplash-associated chronic headache treated with home cervical traction. Olson VL. **Phys Ther** 1997 Apr; 77(4):417-24

Epidural blood patch to treat persistent headache after retromastoid craniectomy [letter] Finegold H, et al. **Reg Anesth** 1996 Nov-Dec;21(6):602-3

Successful use of epidural blood patch for postdural puncture headache following lumbar sympathetic block. Lehmann LJ, et al. **Reg Anesth** 1996 Jul-Aug;21(4):347-9

Manipulation and mobilization of the cervical spine. A systematic review of the literature. Hurwitz EL, et al. **Spine** 1996 Aug 1;21(15):1746-59; discussion 1759-60 (134 ref.)

[An alternative method for treating headache after spinal anesthesia in cesarean section] Tsenov D. **Akush Ginekol (Sofiia)** 1996;35(4):6-7 (Eng. Abstr.) **(Bul)**

[Role of the dentist in the treatment of cephalalgia and fascialgia] Kirveskari P. **Duodecim** 1995;111(14):1370-4 (15 ref.) **(Fin)**

[Physician and the patient with headache] Mumenthaler M. **Ther Umsch** 1997 Feb;54(2):57-8 (Eng. Abstr.) **(Ger)**

[The patient should tell what is wrong with him (interview by Klaus Reinhardt)] Mumenthaler M. **Ther Umsch** 1997 Feb;54(2):51-2 **(Ger)**

[Evaluation of the blood patch using magnetic resonance (letter)] Catalá-Bauset JC, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):222-3 **(Spa)**

VIROLOGY

You're the flight surgeon: severe headache. Geyer DE. **Aviat Space Environ Med** 1996 Sep;67(9):899-900

HEADGEAR, ORTHODONTIC see **EXTRAORAL TRACTION APPLIANCES**

HEALTH

Changing behavior: a challenge for reproductive health awareness. Andreasen AR. **Adv Contracept** 1997 Jun-Sep; 13(2-3):351-3 (0 ref.)

Reproductive health before and after the childbearing age: the Japanese scene. Aso T. **Adv Contracept** 1996 Dec; 12(4):305-8 (0 ref.)

Body/self awareness and interpersonal communications: fundamental components of reproductive health awareness. Aumack-Yee K. **Adv Contracept** 1997 Jun-Sep; 13(2-3):319-23 (6 ref.)

Reproductive health as an essential human right. Benagiano G. **Adv Contracept** 1996 Dec;12(4):243-50 (20 ref.)

Reproductive health in the People's Republic of China. Bilian X. **Adv Contracept** 1996 Dec;12(4):257-63 (11 ref.)

Reproductive health: the Thai experience. Boonkasemsanti W. **Adv Contracept** 1996 Dec;12(4):271-4 (0 ref.)

Reproductive health of the young and the elderly in the USA. Brenner PF. **Adv Contracept** 1996 Dec;12(4):297-303 (27 ref.)

Implementing reproductive health awareness: progress to date. Cachan J, et al. **Adv Contracept** 1997 Jun-Sep; 13(2-3):363-71 (3 ref.)

The potential contribution of sexuality and gender awareness. Kopp Z. **Adv Contracept** 1997 Jun-Sep;13(2-3):325-9 (5 ref.)

Reproductive tract malignancies: a neglected aspect of reproductive health. López de la Osa E. **Adv Contracept** 1996 Dec;12(4):293-6 (8 ref.)

Reproductive health in Mexico and Latin America. Perez-Palacios G. **Adv Contracept** 1996 Dec;12(4):251-6 (0 ref.)

Reproductive health awareness: an important dimension to be integrated into existing sexual and reproductive health

programs. Pyper C. **Adv Contracept** 1997 Jun–Sep; 13(2–3):331–8 (5 ref.)
Reproductive health in India. Saxena BN. **Adv Contracept** 1996 Dec;12(4):265–70 (0 ref.)
Breaking the mold: expanding options for reproductive health awareness: the CARE experience. Schubert J, et al. **Adv Contracept** 1997 Jun–Sep;13(2–3):355–61 (0 ref.)
Issues to consider in operationalizing reproductive health. Spicehandler J. **Adv Contracept** 1997 Jun–Sep; 13(2–3):345–50 (12 ref.)
The reproductive health awareness (RHA) model: a qualitative perspective. Wilson A. **Adv Contracept** 1997 Jun–Sep;13(2–3):339–42 (3 ref.)
Work and health: of isolation, sisyphus, and barbarian beds. Dossey L. **Altern Ther Health Med** 1997 Jan;3(1):8–14
Toward a strategy for healthy adolescent development. Hamburg DA. **Am J Psychiatry** 1997 Jun;154(6 Suppl):6–12 (34 ref.)
A multiparadigm approach to nursing. Engebretson J. **ANS Adv Nurs Sci** 1997 Sep;20(1):21–33
Treating depressed primary care patients improves their physical, mental, and social functioning. Coulehan JL, et al. **Arch Intern Med** 1997 May 26;157(10):1113–20
Cystatins in health and disease. Henskens YM, et al. **Biol Chem Hoppe Seyler** 1996 Feb;377(2):71–86 (193 ref.)
Freedom, responsibility, and health. Bunker JP, et al. **BMJ** 1996 Dec 21–28;313(7072):1582–4
Health and social cohesion: why care about income inequality? Kawachi I, et al. **BMJ** 1997 Apr 5; 314(7086):1037–40
Studies exploring health in relation to intrauterine life should look at birth order [letter; comment] Odent M, et al. **BMJ** 1997 May 10;314(7091):1416. Comment on: BMJ 1997 Feb 15;314(7079):475–80.
The World Health Organisation needs to reconsider its definition of health. Saracci R. **BMJ** 1997 May 10; 314(7091):1409–10
Health as a fundamental human right. Hobdell MH. **Br Dent J** 1996 Apr 6;180(7):267–70
Changing social factors and their long–term implications for health. Wadsworthx ME. **Br Med Bull** 1997 Jan; 53(1):198–209 (67 ref.)
The role of adrenocorticoids as modulators of immune function in health and disease: neural, endocrine and immune interactions. McEwen BS, et al. **Brain Res Brain Res Rev** 1997 Feb;23(1–2):79–133 (485 ref.)
Health and human development. Alleyne G. **Bull Pan Am Health Organ** 1996 Mar;30(1):63–9
Coronary microcirculation in health and disease. Summary of an NHLBI workshop. Chilian WM. **Circulation** 1997 Jan 21;95(2):522–8 (82 ref.)
Biocultural approaches to health and mortality in an Old Order Amish community. Hewner SJ. **Coll Antropol** 1997 Jun;21(1):67–82
An universal model of health and work output: theoretical structure and testing strategy. Steegmann AT Jr, et al. **Coll Antropol** 1997 Jun;21(1):47–65
Physical and mental health related to dental amalgam fillings in Swedish twins. Björkman L, et al. **Community Dent Oral Epidemiol** 1996 Aug;24(4):260–7
Toxicological considerations in evaluating indoor air quality and human health: impact of new carpet emissions. Dietert RR, et al. **Crit Rev Toxicol** 1996 Nov;26(6):633–707 (416 ref.)
Research needs for the risk assessment of health and environmental effects of endocrine disruptors: a report of the U.S. EPA–sponsored workshop. Kavlock RJ, et al. **Environ Health Perspect** 1996 Aug;104 Suppl 4:715–40 (193 ref.)
Teplice program—the impact of air pollution on human health. Srám RJ, et al. **Environ Health Perspect** 1996 Aug; 104 Suppl 4:699–714 (54 ref.)
The American Digestive Health Foundation: advancing digestive health through support of research and education in the cause, prevention, treatment, and cure of digestive diseases. Brotman M, et al. **Gastroenterology** 1996 Jun; 110(6):1997–9
Introduction: from reproductive endocrinology to reproductive health. The short history of a new departure by ESHRE. European Society for Human Reproduction and Embryology. Diczfalusy E, et al. **Hum Reprod** 1996 Aug;11(8):1776–7
Biological and health effects of electric and magnetic fields from video display terminals. A technical information statement. **IEEE Eng Med Biol Mag** 1997 May–Jun; 16(3):87–92
Solar radiation and human health. **Indian Pediatr** 1996 Dec; 33(12):1070–2
Determinants of health of North–American adolescents: evolving definitions, recent findings, and proposed research agenda. Raphael D. **J Adolesc Health** 1996 Jul;19(1):6–16 (97 ref.)
Nursing and the health of the nation: schism or symbiosis? Brown PA, et al. **J Adv Nurs** 1997 Feb;25(2):297–301
Vulnerability, health and health care. Rogers AC. **J Adv Nurs** 1997 Jul;26(1):65–72 (31 ref.)
Background air concentrations of Cr(VI) in Hudson County, New Jersey: implications for setting health–based standards for Cr(VI) in soil. Scott PK, et al. **J Air Waste Manag Assoc** 1997 May;47(5):592–600
Ambient particles and health: lines that divide. Vedal S. **J Air Waste Manag Assoc** 1997 May;47(5):551–81 (173 ref.)
The importance of healthy communities of higher education. Jackson ML, et al. **J Am Coll Health** 1997 May; 45(6):237–41 (24 ref.)
Assuring college student health [editorial] Patrick K. **J Am Coll Health** 1997 May;45(6):235–6
Effect of the National Resident Assessment Instrument on selected health conditions and problems [see comments] Fries BE, et al. **J Am Geriatr Soc** 1997 Aug;45(8):994–1001 . Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.
Antioxidants in health and disease [see comments] Cheraskin E. **J Am Optom Assoc** 1996 Jan;67(1):50–7 (50 ref.). Comment in: J Am Optom Assoc 1996 Jan;67(1):6–10.
Antioxidant vitamins and health. Gibaldi M. **J Clin Pharmacol** 1996 Dec;36(12):1093–9 (36 ref.)
Presidential address. Impressive achievements and intolerable shortcomings characterise India's health performance over the past 47 years. Chhaparwal BC. **J Indian Med Assoc** 1995 May;93(5):180–5
Adaptation to changes in dietary phosphorus intake in health and in renal failure. Loghman–Adham M. **J Lab Clin Med** 1997 Feb;129(2):176–88 (153 ref.)
Health as a normative concept: towards a new conceptual framework. Fedoryka K. **J Med Philos** 1997 Apr; 22(2):143–60
Nocturnal micturition, sleep and well–being in women of ages 40–64 years. Asplund R, et al. **Maturitas** 1996 May; 24(1–2):73–81
Problems for problem–based learning: a comparative study of documents. Jayawickramarajah PT. **Med Educ** 1996 Jul; 30(4):272–82
Self–perception of health and survival. A 10–year follow–up among Italians aged over sixty. Inchingolo GM. **Minerva Med** 1997 Jan–Feb;88(1–2):15–23
Interview with Karen Hasby [interview by Bill Berlin] Hasby K. **N J Med** 1997 Jan;94(1):21–3
Well–being begins with the mouth [editorial] Kerpen SJ. **N Y State Dent J** 1997 Apr;63(4):6–7
The impact of blurred vision on functioning and well–being. Lee PP, et al. **Ophthalmology** 1997 Mar;104(3):390–6
The meaning of normal. Davis PV, et al. **Perspect Biol Med** 1996 Autumn;40(1):68–77
Alcohol, tobacco and illicit drug use among women. McGann KP, et al. **Prim Care** 1997 Mar;24(1):113–22 (43 ref.)
A health promotion approach to adolescent sexual and reproductive health: a discussion of intervention targets and problem focus. Nyamwaya D. **Promot Educ** 1996 Sep; 3(3):18–21, 46
Visualizing health: exploring perceptions of children using the draw–and–write method. Pridmore P. **Promot Educ** 1996 Dec;3(4):11–5
Approaches to adolescent reproductive health: audience–specific strategies. Sikes OJ. **Promot Educ** 1996 Sep;3(3):15–7, 46
Aromatase expression in health and disease. Simpson ER, et al. **Recent Prog Horm Res** 1997;52:185–213; discussion 213–4 (123 ref.)
A perspective on the risk assessment process for endocrine–disruptive effects on wildlife and human health. Kavlock RJ, et al. **Risk Anal** 1996 Dec;16(6):731–9 (65 ref.)
An overview of a multimedia benchmarking analysis for three risk assessment models: RESRAD, MMSOILS, and MEPAS. Laniak GF, et al. **Risk Anal** 1997 Apr; 17(2):203–14
Air pollution and human health: perspectives for the '90s and beyond. Lipfert FW. **Risk Anal** 1997 Apr;17(2):137–46 (19 ref.)
Multimedia benchmarking analysis for three risk assessment models: RESRAD, MMSOILS, and MEPAS. Mills WB, et al. **Risk Anal** 1997 Apr;17(2):187–201
Climate change and human health [news] Jones JS. **S Afr Med J** 1997 Jan;87(1):13–4
Integrins and health. Horwitz AF. **Sci Am** 1997 May; 276(5):68–75
The personal is ecological: environmentalism of social work. Park KM. **Soc Work** 1996 May;41(3):320–3
Symposium on immigrant health. A special Texas Medicine issue [editorial] Pietrobono J. **Tex Med** 1996 Oct;92(10):10
Hazardous waste: human health effects. Johnson BL. **Toxicol Ind Health** 1997 Mar–Jun;13(2–3):121–43 (50 ref.)
Environmental contamination and health effects: what is the evidence? Sever LE. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):145–61 (25 ref.)
Hazardous waste: its impact on human health in Europe. Wyes HW. **Toxicol Ind Health** 1997 Mar–Jun; 13(2–3):109–19
A method for describing disease patterns during the life span of dairy cows. Faye B, et al. **Vet Res** 1996;27(4–5):453–64
Alcohol—less is better. **WHO Reg Publ Eur Ser** 1996;70:1–39 (39 ref.)
The direct effects of nicotine use on human health. Van Gilder TJ, et al. **Wis Med J** 1997 Feb;96(2):43–8 (39 ref.)
Main scientific results of the WHO International Programme on the Health Effects of the Chernobyl Accident (IPHECA). Souchkevitch GN. **World Health Stat Q** 1996; 49(3–4):209–12
The effects of volcanoes on health: preparedness in Mexico. Zeballos JL, et al. **World Health Stat Q** 1996;49(3–4):204–8 (10 ref.)
[The concept of health] Olsen J. **Ugeskr Laeger** 1997 Aug 25;159(35):5244 **(Dan)**
[Sports activities of Swiss youths: practices, motivations and links to health] Ferron C, et al. **Arch Pediatr** 1997 Jun; 4(6):568–76 (Eng. Abstr.) **(Fre)**
[Appearance and health: the role of cosmetics] Lévêque JL. **Rev Med Liege** 1996 Nov;51(11):721–5 **(Fre)**
[Metabolism and health: yesterday—today–tomorrow] Klumpp S, et al. **Pharm Unserer Zeit** 1997 May;26(3):123–6 (8 ref.) **(Ger)**
[Culture and health (letter)] Ingstad B, et al. **Tidsskr Nor Laegeforen** 1997 Apr 30;117(11):1648 **(Nor)**
[Genetic technology, ecology and health] Traavik T. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2606 **(Nor)**
[Health and human development] Alleyne G. **Bol Oficina Sanit Panam** 1996 Jan;120(1):1–10 **(Por)**
[Personality, health and longevity] Molchanov AS, et al. **Fiziol Cheloveka** 1997 Jul–Aug;23(4):58–61 **(Rus)**
[First meeting of the "Ecology and Health" section of the Russian Ecologic Academy] Agadzhanian NA, et al. **Med Tr Prom Ekol** 1996;(5):44–5 **(Rus)**
[The regulations for the forensic medical expertise of the severity of harm to health. Appendix 2 to the order of the Ministry of Public Health of the Russian Federation of 10 December 1996 No. 407] **Sud Med Ekspert** 1997 Apr–Jun;40(2):48–53 **(Rus)**
[The definition and interpretation of the concepts of "health" and "health hazard" and the criteria for the degree of its severity (applicable to the draft of the new Criminal Code of the Russian Federation)] Bedrin LM. **Sud Med Ekspert** 1996 Jul–Sep;39(3):19–22 (Eng. Abstr.) **(Rus)**
[The infliction of harm to health in light of the provisions of the new Criminal Code of the Russian Federation] Vermel' IG, et al. **Sud Med Ekspert** 1997 Apr–Jun; 40(2):42–3 **(Rus)**
[Natural ultraviolet radiation: the nature of its behavior and human health] Strzhizhovskiĭ AD. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug; (4):49–53 (75 ref.) **(Rus)**
[The quality of life related to health in pneumology (letter; comment)] Güell R, et al. **Arch Bronconeumol** 1997 May; 33(5):257–8. Comment on: Arch Bronconeumol 1996 Aug–Sep;32(7):375. **(Spa)**
[Does the Right to the right to health protection exist?] López–de la Peña XA. **Gac Med Mex** 1996 Jul–Aug; 132(4):451–5 (Eng. Abstr.) **(Spa)**
[Health and environment] Ramón de–la–Fuente J. **Gac Med Mex** 1996 Jan–Feb;132(1):71–6 (0 ref.) **(Spa)**
[Health, marginality and regional development] Urbina–Fuentes M, et al. **Gac Med Mex** 1996 Nov–Dec; 132(6):575–97 (Eng. Abstr.) **(Spa)**
[Alcohol, health and society: European charter on alcohol (letter)] Alvarez González FJ, et al. **Gac Sanit** 1996 Jul–Aug;10(55):197–9 **(Spa)**
[Scientific investigation in biomedicine and health sciences in Andalusia] Soriguer Escofet FJ, et al. **Rev Clin Esp** 1996 Sep;196(9):594–602 (Eng. Abstr.) **(Spa)**
[Conflicts and ethical guidance in the relationship between health and work] Berlinguer G. **Rev Esp Salud Publica** 1996 Jul–Aug;70(4):367–84 (Eng. Abstr.) **(Spa)**
[What is health? (editorial)] Pardo A. **Rev Med Univ Navarra** 1997 Apr–Jun;41(2):4–9 **(Spa)**
[The Internet and its incorporation into the health sector] Linger C, et al. **Rev Panam Salud Publica** 1997 Apr; 1(4):315–23 (104 ref.) (Eng. Abstr.) **(Spa)**
[Production of scientific articles about health in six Latin American countries, 1973–1992] Pellegrini Filho A, et al. **Rev Panam Salud Publica** 1997 Jan;1(1):23–34 (Eng. Abstr.) **(Spa)**
[Health and human rights from Nazi Germany to Bosnia] Doctare C. **Lakartidningen** 1997 Aug 20;94(34):2791–5 **(Swe)**
[Inheritance and health. Nobel symposium on the significance of genes, placenta and breast milk for our destiny] Lagercrantz H. **Lakartidningen** 1996 Sep 18;93(38):3259–60 **(Swe)**

EDUCATION see HEALTH EDUCATION

MANPOWER see HEALTH MANPOWER

HEALTH ALLIANCES see INSURANCE POOLS

HEALTH AND WELFARE PLANNING see HEALTH PLANNING

HEALTH BEHAVIOR

An ounce of prevention... [editorial; comment] Delbridge TR, et al. **Acad Emerg Med** 1996 Jul;3(7):653–4. Comment on: Acad Emerg Med 1996 Jul;3(7):668–74.
Taking care of yourself. Smith WL. **Acad Radiol** 1996 Apr; 3(4):370–1
The effect of parental dental health behavior on that of their adolescent offspring. Astrøm AN, et al. **Acta Odontol Scand** 1996 Aug;54(4):235–41
Oral health behavior, knowledge, and attitudes of children, mothers, and schoolteachers in Romania in 1993. Petersen PE, et al. **Acta Odontol Scand** 1995 Dec;53(6):363–8
Physical fighting and associated health behaviours among Swedish adolescents. Grufman M, et al. **Acta Paediatr** 1997 Jan;86(1):77–81
Current dieting, weight loss history, and weight suppression:

behavioral correlates of three dimensions of dieting. French SA, et al. **Addict Behav** 1997 Jan-Feb;22(1):31-44

The impact of behavior and addiction on psychological models of cigarette and alcohol use during pregnancy. Moore PJ, et al. **Addict Behav** 1996 Sep-Oct;21(5):645-68

A criterion measurement model for health behavior change. Velicer WF, et al. **Addict Behav** 1996 Sep-Oct;21(5):555-84

Irish descent, religion, and alcohol and tobacco use. Mullen K, et al. **Addiction** 1996 Feb;91(2):243-54

Sexually transmitted disease (STD) and HIV risk in heterosexual adults attending a public STD clinic: evaluation of a randomized controlled behavioral risk-reduction intervention trial. Boyer CB, et al. **AIDS** 1997 Mar;11(3):359-67

An epidemic of apprehension: questions about HIV/AIDS to an east African newspaper health advice column. Asera R, et al. **AIDS Care** 1997 Feb;9(1):5-12

Maintaining safer sex behaviours in HIV-infected adolescents with haemophilia. The Hemophilia Behavioral Evaluative Intervention Project Committee. Forsberg AD, et al. **AIDS Care** 1996 Dec;8(6):629-40

Sexual risk and HIV-testing behaviour by gay and bisexual men in Canada. Myers T, et al. **AIDS Care** 1996 Jun; 8(3):297-309

Behavior change communication strategies. Aggleton P. **AIDS Educ Prev** 1997 Apr;9(2):111-23 (43 ref.)

HIV seropositive gay men: understanding adoption of safe sexual practices. Godin G, et al. **AIDS Educ Prev** 1996 Dec;8(6):529-45

Utilizing culture and behaviour in epidemiological models of alcohol consumption and consequences for Western nations. Peele S. **Alcohol Alcohol** 1997 Jan-Feb;32(1):51-64

Effects of cardiac rehabilitation, exercise training, and weight reduction on exercise capacity, coronary risk factors, behavioral characteristics, and quality of life in obese coronary patients. Lavie CJ, et al. **Am J Cardiol** 1997 Feb 15;79(4):397-401

Does coronary artery screening by electron beam computed tomography motivate potentially beneficial lifestyle behaviors? [see comments] Wong ND, et al. **Am J Cardiol** 1996 Dec 1;78(11):1220-3. Comment in: Am J Cardiol 1996 Dec 1;78(11):1265-6.

Health practices of critical care nurses: are these nurses good role models for patients? Connolly MA, et al. **Am J Crit Care** 1997 Jul;6(4):261-6

Recognizing a heart attack: the process of determining illness. Scherck KA. **Am J Crit Care** 1997 Jul;6(4):267-73

Screening in special populations: a "case study" of recent Vietnamese immigrants. Nelson KR, et al. **Am J Med** 1997 May;102(5):435-40

Occupational therapy students' perspectives on occupation as an agent that promotes healthful lifestyles [see comments] Dermody JL, et al. **Am J Occup Ther** 1996 Nov-Dec;50(10):835-41. Comment in: Am J Occup Ther 1996 Nov-Dec;50(10):842-3.

Determinants of physical activity among female adolescents. Bungum TJ, et al. **Am J Prev Med** 1997 Mar-Apr; 13(2):115-22

Counseling strategies for obese patients. Clark MM, et al. **Am J Prev Med** 1996 Jul-Aug;12(4):266-70

Health behaviors and health promotion/disease prevention perceptions of medical students. Delnevo CD, et al. **Am J Prev Med** 1996 Jan-Feb;12(1):38-43

Implementing breast cancer screening guidelines: results of the Ontario Health Status Survey. Edwards N, et al. **Am J Prev Med** 1997 Mar-Apr;13(2):143-9

Longitudinal effects of preventive services on health behaviors among an elderly cohort. Elder JP, et al. **Am J Prev Med** 1995 Nov-Dec;11(6):354-9

Effects of a health promotion program on sustaining health behaviors in older adults. Fox PJ, et al. **Am J Prev Med** 1997 Jul-Aug;13(4):257-64

Factors associated with screening mammography in low-income women. Hedegaard HB, et al. **Am J Prev Med** 1996 Jan-Feb;12(1):51-6

Representations of menopause and their health care implications: a qualitative study. Jones JB. **Am J Prev Med** 1997 Jan-Feb;13(1):58-65

Do nutrition label readers eat healthier diets? Behavioral correlates of adults' use of food labels. Kreuter MW, et al. **Am J Prev Med** 1997 Jul-Aug;13(4):277-83

Mammography use in older women with regular physicians: what are the predictors? Mayer-Oakes SA, et al. **Am J Prev Med** 1996 Jan-Feb;12(1):44-50

Determinants of tick-avoidance behaviors in an endemic area for Lyme disease. Shadick NA, et al. **Am J Prev Med** 1997 Jul-Aug;13(4):265-70

Health promotion practices among physicians. Yeager KK, et al. **Am J Prev Med** 1996 Jul-Aug;12(4):238-41

The protective effect of AIDS-related behavioral change among injection drug users: a cross-national study. WHO Multi-Centre Study of AIDS and Injecting Drug Use. Des Jarlais DC, et al. **Am J Public Health** 1996 Dec; 86(12):1780-5

Healthy behaviors among women in the United States and Ontario: the effect on use of preventive care. Hofer TP, et al. **Am J Public Health** 1996 Dec;86(12):1755-9

Sunbathing habits and sunscreen use among white adults: results of a national survey. Koh HK, et al. **Am J Public Health** 1997 Jul;87(7):1214-7

Assessing children's ultraviolet radiation exposure: the use of parental recall via telephone interviews. Mayer JA, et al. **Am J Public Health** 1997 Jun;87(6):1046-9

Associations between physical activity and other health behaviors in a representative sample of US adolescents. Pate RR, et al. **Am J Public Health** 1996 Nov; 86(11):1577-81

Frequent attendance at religious services and mortality over 28 years. Strawbridge WJ, et al. **Am J Public Health** 1997 Jun;87(6):957-61

Prenatal health behaviors and psychosocial risk factors in pregnant women of Mexican origin: the role of acculturation. Zambrana RE, et al. **Am J Public Health** 1997 Jun;87(6):1022-6

Effect of piped water supply on human water contact patterns in a Schistosoma haematobium-endemic area in Coast Province, Kenya. Noda S, et al. **Am J Trop Med Hyg** 1997 Feb;56(2):118-26

Building the capacity of schools to improve the health of the nation. A call for assistance from psychologists. Kolbe LJ, et al. **Am Psychol** 1997 Mar;52(3):256-65

Women's health initiative. Why now? What is it? What's new? Matthews KA, et al. **Am Psychol** 1997 Feb;52(2):101-16 (100 ref.)

Changes in HIV risk behavior following alternative residential programs of drug abuse treatment and AIDS education. McCusker J, et al. **Ann Epidemiol** 1996 Mar; 6(2):119-25

Adherence and arrhythmic mortality in the cardiac arrhythmia suppression trial (CAST). Obias-Manno D, et al. **Ann Epidemiol** 1996 Mar;6(2):93-101

Improving question wording in surveys of culturally diverse populations. Warnecke RB, et al. **Ann Epidemiol** 1997 Jul; 7(5):334-42

Effect of leisure-time physical activity change on high-density lipoprotein cholesterol in adolescents and young adults. Raitakari OT, et al. **Ann Med** 1996 Jun; 28(3):259-63

Physical activity and teenage health. A program to improve cardiovascular fitness, health behavior, and coronary disease risk factors in multiethnic teenagers. Fardy PS, et al. **Ann N Y Acad Sci** 1997 May 28;817:356-8

School-based programs for health-risk reduction. Nicklas TA, et al. **Ann N Y Acad Sci** 1997 May 28;817:208-24 (37 ref.)

Advancing discourse on health promotion: beyond mainstream thinking. Kulbok PA, et al. **ANS Adv Nurs Sci** 1997 Sep;20(1):12-20

Health promotion: an essential component of rehabilitation for persons with chronic disabling conditions. Stuifbergen AK, et al. **ANS Adv Nurs Sci** 1997 Jun;19(4):1-20

Behavioral correlates of health and illness in youths with chronic illness. Frey M. **Appl Nurs Res** 1996 Nov; 9(4):167-76

Self-esteem and health. Is the relationship real? [editorial; comment] Chapman RW. **Arch Fam Med** 1997 Jan-Feb; 6(1):71. Comment on: Arch Fam Med 1997 Jan-Feb;6(1):67-70.

The relationship of self-esteem to the health-related behaviors of the patients of a primary care clinic [see comments] Hurst DF, et al. **Arch Fam Med** 1997 Jan-Feb; 6(1):67-70. Comment in: Arch Fam Med 1997 Jan-Feb;6(1):71.

Modifiable high-risk behaviors for cardiovascular disease among family physicians in the United States. A national Survey. LeBlanc KE, et al. **Arch Fam Med** 1997 May-Jun; 6(3):246-50

Adolescent vegetarians. A behavioral profile of a school-based population in Minnesota. Neumark-Sztainer D, et al. **Arch Pediatr Adolesc Med** 1997 Aug;151(8):833-8

Health status, life satisfaction and health practices: a study of Pacific Asian and Native Hawaiian elderly cohorts. Koseki LK, et al. **Asia Pac J Public Health** 1995; 8(2):95-101

Sun behaviour and perceptions of risk for melanoma among 21-year-old New Zealanders. Douglass HM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):329-34

Healthy and unhealthy life styles of female brothel workers and call girls (private sex workers) in Sydney. Perkins R, et al. **Aust N Z J Public Health** 1996 Oct;20(5):512-6

Towards a research strategy to support public health programs for behaviour change. Redman S. **Aust N Z J Public Health** 1996 Aug;20(4):352-8 (38 ref.)

Health risk and behaviour of out-of-school 16-year-olds in New South Wales. Tresidder J, et al. **Aust N Z J Public Health** 1997 Apr;21(2):168-74

Smoking behaviours and beliefs of older Australians. Wakefield M, et al. **Aust N Z J Public Health** 1996 Dec; 20(6):603-6

Why people stay healthy [letter; comment] Eskin F. **BMJ** 1997 May 3;314(7090):1347. Comment on: BMJ 1996 Dec 21-28;313(7072):1584-5.

Cycling offers important health benefits and should be encouraged [letter] Hillman M. **BMJ** 1997 Aug 23; 315(7106):490

Dietary habits and mortality in 11,000 vegetarians and health conscious people: results of a 17 year follow up [see comments] Key TJ, et al. **BMJ** 1996 Sep 28; 313(7060):775-9. Comment in: BMJ 1996 Sep 28;313(7060):765-6. Comment in: BMJ 1997 Jan 11;314(7074):148; discussion 148-9.

Dietary habits and mortality in vegetarians and health conscious people. Weight cannot be interpreted without information on height [letter; comment] Morgan JF. **BMJ** 1997 Jan 11;314(7074):148; discussion 148-9. Comment on: BMJ 1996 Sep 28;313(7060):775-9.

Dietary habits and mortality in vegetarians and health conscious people. Several uncertainties still exist [letter; comment] Ness AR, et al. **BMJ** 1997 Jan 11;314(7074):148; discussion 148-9. Comment on: BMJ 1996 Sep 28;313(7060):775-9.

Dental attitudes and behaviour among a sample of dentate older adults from three English communities. Steele JG, et al. **Br Dent J** 1996 Feb 24;180(4):131-6

Associations between health behaviours and health related fitness. Shephard RJ, et al. **Br J Sports Med** 1996 Jun; 30(2):94-101

Health information-seeking behavior and older African American women. Gollop CJ. **Bull Med Libr Assoc** 1997 Apr;85(2):141-6

Similarity of risk and protective behaviors among African-American pre- and early adolescent members of naturally occurring friendship groups. Fang X, et al. **Bull N Y Acad Med** 1996 Winter;73(2):285-300

School attendance, health-risk behaviors, and self-esteem in adolescents applying for working papers. Suss AL, et al. **Bull N Y Acad Med** 1996 Winter;73(2):255-66

AIDS knowledge and high-risk behaviour in the chronic mentally ill [see comments] Chuang HT, et al. **Can J Psychiatry** 1996 Jun;41(5):269-72. Comment in: Can J Psychiatry 1996 Nov;41(9):603.

Ultraviolet radiation and safety behaviours at an outdoor community event. Manion IG, et al. **Can J Public Health** 1997 Mar-Apr;88(2):119-22

Hormone replacement therapy, reproductive history, and colon cancer: a multicenter, case-control study in the United States [see comments] Kampman E, et al. **Cancer Causes Control** 1997 Mar;8(2):146-58. Comment in: Cancer Causes Control 1997 Mar;8(2):127-9.

Changes in skin protection behaviors, attitudes, and sunburn: in a population with the highest incidence of skin cancer in the world. Baade PD, et al. **Cancer Detect Prev** 1996; 20(6):566-75

Validation of self-reported breast and cervical cancer screening tests among low-income minority women. Paskett ED, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):721-6

Health beliefs and health behaviours in subpopulation of stomach cancer families and in the control group. Tobiasz-Adamczyk B. **Cancer Lett** 1997 Mar 19; 114(1-2):301-4

Chewing of xylitol gum--a well adopted practice among finnish adolescents. Honkala E, et al. **Caries Res** 1996; 30(1):34-9

Relationship of learned resourcefulness to measures of pain description, psychopathology and health behavior in a sample of chronic pain patients. Toomey TC, et al. **Clin J Pain** 1995 Dec;11(4):259-66

Continuity of care between obstetrical and pediatric preventive care: indicators of nonattendance at the first well-child appointment. Grossman LK, et al. **Clin Pediatr (Phila)** 1996 Nov;35(11):563-9

Toothbrushing schedule, motivation and lifestyle behaviours in 7,770 young adolescents. Macgregor ID, et al. **Community Dent Health** 1996 Dec;13(4):232-7

Stages of change for sugar and fat reduction in an adolescent sample. Watt RG. **Community Dent Health** 1997 Jun; 14(2):102-7

Expectancy-value approach to drinking non-sugared mineral water among adolescents. Nordrehaug Astrom A, et al. **Community Dent Oral Epidemiol** 1996 Feb;24(1):72-8

Use of Dental Coping Beliefs Scale to measure cognitive changes following oral hygiene interventions. Wolfe GR, et al. **Community Dent Oral Epidemiol** 1996 Feb;24(1):37-41

Behavioral risk for HIV infection among adults with a severe and persistent mental illness: patterns and psychological antecedents. Carey MP, et al. **Community Ment Health J** 1997 Apr;33(2):133-42

Factors influencing health perceptions in patients with panic disorder. Schmidt NB, et al. **Compr Psychiatry** 1996 Jul-Aug;37(4):253-60

Healthy Lifestyle Check. A computerized health screening program. Martin K, et al. **Comput Nurs** 1997 Mar-Apr; 15(2):77-81

Depressive symptoms: associations with health perceptions and health behaviors. Lynch D, et al. **Depression** 1996; 4(2):68-72

The potential for lifestyle change to influence the progression of impaired glucose tolerance to non-insulin-dependent diabetes mellitus. Bourn DM. **Diabet Med** 1996 Nov; 13(11):938-45 (55 ref.)

Hypoglycaemic and self-care behaviour in IDDM adults in Bulgaria [letter] Cox DJ, et al. **Diabet Med** 1996 Oct; 13(10):916-7

Changing behavior. Practical lessons from the diabetes control and complications trial. Lorenz RA, et al. **Diabetes Care** 1996 Jun;19(6):648-52

Health behaviour of rural mothers to acute respiratory infections in children in Gondar, Ethiopia. Teka T, et al. **East Afr Med J** 1995 Oct;72(10):623-5

8-Hydroxydeoxyguanosine in human leukocyte DNA and daily health practice factors: effects of individual alcohol sensitivity. Nakajima M, et al. **Environ Health Perspect** 1996 Dec;104(12):1336-8

Difficulties in trying to eat healthier: descriptive analysis of perceived barriers for healthy eating. Lappalainen R, et

al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S36–40

Nutrition promotion and dietary change at off-shore oil installations in the Norwegian sector of the North Sea. Oshaug A, et al. **Eur J Clin Nutr** 1995 Dec;49(12):883–96

Perceived benefits of healthy eating among a nationally-representative sample of adults in the European Union. Zunft HJ, et al. **Eur J Clin Nutr** 1997 Jun;51 Suppl 2:S41–6

Men's behavior change following infection with a sexually transmitted disease. Payn B, et al. **Fam Plann Perspect** 1997 Jul–Aug;29(4):152–7

Prevention in practice: results of a 2-year follow-up of routine health promotion interventions in general practice. Dowell AC, et al. **Fam Pract** 1996 Aug;13(4):357–62

Differences in meanings of health: and exploratory study of general practitioners and their patients. St Claire L, et al. **Fam Pract** 1996 Dec;13(6):511–6

Does where you live predict health related behaviours?: a case study in Glasgow. Ellaway A, et al. **Health Bull (Edinb)** 1996 Nov;54(6):443–6

The Chief Scientist reports... Behavioural risk factors for coronary heart disease and cancers among adults in Edinburgh and Glasgow: assessing change 1988–1995. Robertson B, et al. **Health Bull (Edinb)** 1996 Sep; 54(5):418–26

The impact of the Wellness Guide/Guía on Hispanic women's well-being-related knowledge, efficacy beliefs, and behaviors: the mediating role of acculturation. Bell RA, et al. **Health Educ Behav** 1997 Jun;24(3):326–43

Rethinking perceived risk and health behavior: a critical review of HIV prevention research. Kowalewski MR, et al. **Health Educ Behav** 1997 Jun;24(3):313–25 (101 ref.)

Using behavioral theory in computer-based health promotion and appraisal. Rhodes F, et al. **Health Educ Behav** 1997 Feb;24(1):20–34

Usefulness of multiple equations for predicting preventive oral health behaviors. Ronis DL, et al. **Health Educ Q** 1996 Nov;23(4):512–27

Introduction to the featured section: psychological and behavioral studies in cancer prevention and control. Andersen BL. **Health Psychol** 1996 Nov;15(6):411–2

The natural history of cigarette smoking from adolescence to adulthood: demographic predictors of continuity and change. Chassin L, et al. **Health Psychol** 1996 Nov; 15(6):478–84

Evaluation of the validity of the condom use self-efficacy scale (CUSES) in young men using two behavioral simulations. Forsyth AD, et al. **Health Psychol** 1997 Mar; 16(2):175–8

A comprehensive Afrocentric rites of passage program for black male adolescents. Harvey AR, et al. **Health Soc Work** 1997 Feb;22(1):30–7

Effect of a postdischarge education class on coronary artery disease knowledge and self-reported health-promoting behaviors. Plach S, et al. **Heart Lung** 1996 Sep–Oct; 25(5):367–72

Incidence of diarrhoea and some related environmental and behavioural factors in Jhuggis of Delhi. Lal P, et al. **Indian J Public Health** 1996 Apr–Jun;40(2):35–7

Are obese adolescent boys ignoring an important health risk? Steen SN, et al. **Int J Eat Disord** 1996 Nov;20(3):281–6

The association of job strain and health behaviours in men and women. Hellerstedt WL, et al. **Int J Epidemiol** 1997 Jun;26(3):575–83

Psychodynamic group therapy with adolescents: exploration of HIV-related risk taking. Henry RM. **Int J Group Psychother** 1996 Apr;46(2):229–53

Health and social standing of young men viewed in light of information on their childhood and adolescence. Pietilä AM, et al. **Int J Nurs Stud** 1995 Dec;32(6):545–55

Selected psychological characteristics and health behaviors of aging marathon runners: a longitudinal study. Morgan WP, et al. **Int J Sports Med** 1996 May;17(4):305–12

HIV Behavioural Interventions. Proceedings of a conference. 21–23 June 1995. **Int J STD AIDS** 1996;7 Suppl 2:1–90

Developing HIV-preventive behavioural interventions for young people in Scotland. Abraham C, et al. **Int J STD AIDS** 1996;7 Suppl 2:39–42 (27 ref.)

Measuring outcomes of behavioural interventions for STD/HIV prevention. Aral SO, et al. **Int J STD AIDS** 1996;7 Suppl 2:30–8 (27 ref.)

Designing behavioural and social science to impact practice and policy in HIV prevention and care. The Executive Committee of the Center for AIDS Prevention Studies (CAPS). Coates TJ, et al. **Int J STD AIDS** 1996;7 Suppl 2:2–12 (97 ref.)

Behavioural interventions required in South East Asia to minimize infections with HIV. Dwyer JM. **Int J STD AIDS** 1996;7 Suppl 2:71–4

Case management and patient reactions: a study of STD care in a province in Zambia. Hanson S, et al. **Int J STD AIDS** 1997 May;8(5):320–8

The evaluation of behavioural interventions for gay men: obstacles to evidence-based prevention. Hart GJ. **Int J STD AIDS** 1996;7 Suppl 2:25–9 (19 ref.)

HIV/AIDS: the twenty injunctions of London summary of the conference. Kirby MD. **Int J STD AIDS** 1996;7 Suppl 2:83–90

Reflections on the first decade of the HIV/AIDS pandemic: opportunities and priorities for international behavioural research and interventions. Krause RM. **Int J STD AIDS** 1996;7 Suppl 2:47–51 (14 ref.)

Behaviour in Latin American men: implications for HIV/AIDS interventions. Parker RG. **Int J STD AIDS** 1996;7 Suppl 2:62–5 (7 ref.)

Association of sexually transmitted diseases and infection with the human immunodeficiency virus: biological cofactors and markers of behavioural interventions. Quinn TC. **Int J STD AIDS** 1996;7 Suppl 2:17–24 (81 ref.)

HIV behavioural interventions in young people in The Netherlands. Schaalma H, et al. **Int J STD AIDS** 1996;7 Suppl 2:43–6 (13 ref.)

Wanted men [editorial] Macnamara C. **Ir Med J** 1997 Jun–Jul;90(4):136

Coronary disease risk factor reduction and behavior modification in minority adolescents: the PATH program. Fardy PS, et al. **J Adolesc Health** 1996 Apr;18(4):247–53

Do school-based health centers improve adolescents' access to health care, health status, and risk-taking behavior? Kisker EE, et al. **J Adolesc Health** 1996 May;18(5):335–43

Associations between lifestyle and cardiovascular risk factors in 18-year-old Australians. Milligan RA, et al. **J Adolesc Health** 1997 Sep;21(3):186–95

Health risk behavioral survey from 39 juvenile correctional facilities in the United States. Morris RE, et al. **J Adolesc Health** 1995 Dec;17(6):334–44

Covariations of eating behaviors with other health-related behaviors among adolescents. Neumark-Sztainer D, et al. **J Adolesc Health** 1997 Jun;20(6):450–8

AIDS knowledge, concerns, and behavioral changes among inner-city high school students. Sikand A, et al. **J Adolesc Health** 1996 May;18(5):325–8

Hong Kong nurses' health-related behaviours: implications for nurses' role in health promotion. Callaghan P, et al. **J Adv Nurs** 1997 Jun;25(6):1276–82

Trends in sun exposure knowledge, attitudes, and behaviors: 1986 to 1996. Robinson JK, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 1):179–86

Health assessment for partners of pregnant women: a pilot study of four survey methods. Meyer BA, et al. **J Am Board Fam Pract** 1997 May–Jun;10(3):192–8

Results from the 1995 National College Health Risk Behavior Survey. Douglas KA, et al. **J Am Coll Health** 1997 Sep; 46(2):55–66

Health risk behaviors among California college students. Patrick K, et al. **J Am Coll Health** 1997 May;45(6):265–72

The impact of a required college health and physical education course on the health status of alumni. Pearman SN 3rd, et al. **J Am Coll Health** 1997 Sep;46(2):77–85

Know your numbers: comparing participants and nonparticipants in a university health screening program. Perryman SJ, et al. **J Am Coll Health** 1997 Sep;46(2):87–91

Health trends among college freshmen. Sax LJ. **J Am Coll Health** 1997 May;45(6):252–62

Psychosocial concerns and weight control behaviors among overweight and nonoverweight Native American adolescents. Neumark-Sztainer D, et al. **J Am Diet Assoc** 1997 Jun;97(6):598–604

Association of insulin-like growth factor-I with body composition, weight history, and past health behaviors in the very old: the Framingham Heart Study. Harris TB, et al. **J Am Geriatr Soc** 1997 Feb;45(2):133–9

Patient education for behavior change: help from the Transtheoretical and Harm Reduction models. Bradley-Springer L. **J Assoc Nurses AIDS Care** 1996;7 Suppl 1:23–33; discussion 34–40 (18 ref.)

Vivacitas [editorial] Hegde BM. **J Assoc Physicians India** 1995 Feb;43(2):88–9

Prevalence and effectiveness of self-regulatory techniques used to avoid drunk driving. Brown SL. **J Behav Med** 1997 Feb;20(1):55–66

Development and preliminary testing of a brief intervention for modifying CHD-predictive hostility components. Gidron Y, et al. **J Behav Med** 1996 Jun;19(3):203–20

The development of health protective behaviors among college students. Weiss GL, et al. **J Behav Med** 1996 Apr; 19(2):143–61

Cancer-risk-related health behaviors and attitudes of older workers. Working Well Research Group. Kinne S, et al. **J Cancer Educ** 1996 Summer;11(2):89–95

Secondary prevention: no more exercise? Moore GE. **J Cardiopulm Rehabil** 1997 Jul–Aug;17(4):284–5; discussion 286–7

Promoting wellness in individuals with coronary heart disease. Fleury J, et al. **J Cardiovasc Nurs** 1997 Apr; 11(3):26–42

Factors contributing to rehospitalization of elderly patients with heart failure. Happ MB, et al. **J Cardiovasc Nurs** 1997 Jul;11(4):75–84

Individual and community models for promoting wellness. Murdaugh CL, et al. **J Cardiovasc Nurs** 1997 Apr; 11(3):1–14

Assessing the responsiveness of a functional status measure: the Sickness Impact Profile versus the SIP68. de Bruin AF, et al. **J Clin Epidemiol** 1997 May;50(5):529–40 (38 ref.)

Framing effects on expectations, decisions, and side effects experienced: the case of influenza immunization [published erratum appears in J Clin Epidemiol 1997 Jun;50(6):747–8] O'Connor AM, et al. **J Clin Epidemiol** 1996 Nov; 49(11):1271–6

Demographics, health behaviors, and past drug use as predictors of recall accuracy for previous prescription medication use. West SL, et al. **J Clin Epidemiol** 1997 Aug; 50(8):975–80

Behavioral risk indicators of attachment loss in adult Floridians. Dolan TA, et al. **J Clin Periodontol** 1997 Apr; 24(4):223–32

Self-concept and dental health behaviours in adolescents. Macgregor ID, et al. **J Clin Periodontol** 1997 May; 24(5):335–9

A comparison of descriptive variables for clinical patients and symptomatic volunteers with depressive disorders [see comments] Rapaport MH, et al. **J Clin Psychopharmacol** 1996 Jun;16(3):242–6. Comment in: J Clin Psychopharmacol 1997 Aug;17(4):323–4.

Risk behavioural practices of rural mothers as determinants of childhood diarrhoea. Ghosh S, et al. **J Commun Dis** 1997 Mar;29(1):7–14

Prevalence of stages of change for physical activity in rural, suburban and inner-city communities. Potvin L, et al. **J Community Health** 1997 Feb;22(1):1–13

Promoting healthier behaviors, attitudes, and beliefs toward sun exposure in parents of young children. Rodrigue JR. **J Consult Clin Psychol** 1996 Dec;64(6):1431–6

Could we hold people responsible for their own adverse health? Harris J. **J Contemp Health Law Policy** 1995 Fall; 12(1):147–53

Understanding of hygiene behaviour and diarrhoea in two villages in Botswana. Kaltenthaler EC, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):75–80

Behavior assessment and cross-validation by surrogate measures in drug prevention research. Duryea E, et al. **J Drug Educ** 1995;25(4):335–42

The effects of internal and external control factors on college students' marijuana use and cessation of use. Lo CC, et al. **J Drug Educ** 1995;25(4):357–77

Patient characteristics and lifestyle recommendations in the treatment of gastroesophageal reflux disease. Blair DI, et al. **J Fam Pract** 1997 Mar;44(3):266–72

Fighting among America's youth: a risk and protective factors approach. Fitzpatrick KM. **J Health Soc Behav** 1997 Jun;38(2):131–48

Love, lust, and fear: safer sex decision making among gay men. Ames LJ, et al. **J Homosex** 1995;30(1):53–73

Primary prevention of coronary heart disease in hypertension. Sleight P. **J Hypertens Suppl** 1996 Sep; 14(2):S35–8; discussion S38–9 (29 ref.)

Health and life styles. Bhatla PC. **J Indian Med Assoc** 1996 May;94(5):174–7

Wellness--a new concept [editorial] Hegde BM. **J Indian Med Assoc** 1996 Aug;94(8):286–8

An interesting case of viper bite [letter] Saha BK, et al. **J Indian Med Assoc** 1995 Oct;93(10):398–9

Effectiveness of health education to increase screening for cervical cancer among eastern-band Cherokee Indian women in North Carolina. Dignan M, et al. **J Natl Cancer Inst** 1996 Nov 20;88(22):1670–6

Correlation between self-reported cocaine use and urine toxicology in an inner-city prenatal population. Lindsay MK, et al. **J Natl Med Assoc** 1997 Jan;89(1):57–60

Effects of social support on prenatal care and health behaviors of low-income women. Schaffer MA, et al. **J Obstet Gynecol Neonatal Nurs** 1997 Jul–Aug;26(4):433–40

An evaluation of peer and professional trainers in a union-based occupational health and safety training program. Kurtz JR, et al. **J Occup Environ Med** 1997 Jul; 39(7):661–71

A study on betel quid chewing behavior among Kaohsiung residents aged 15 years and above. Chen JW, et al. **J Oral Pathol Med** 1996 Mar;25(3):140–3

A content analysis of safety behaviors of television characters: implications for children's safety and injury. Potts R, et al. **J Pediatr Psychol** 1996 Aug;21(4):517–28

Risk behaviors, self-efficacy, and AIDS prevention among adolescents. Goh DS, et al. **J Psychol** 1996 Sep; 130(5):537–46

Excessive health behaviors in those at risk for physical disorder [editorial] Epstein SA, et al. **J Psychosom Res** 1997 Sep;43(3):223–5

Stress, social support and health-related behavior: a study of smoking, alcohol consumption and physical exercise. Steptoe A, et al. **J Psychosom Res** 1996 Aug;41(2):171–80

Relationship between dental and general health behaviors in a Canadian population. Payne BJ, et al. **J Public Health Dent** 1996 Summer;56(4):198–204

Is health a matter of choice [editorial] Cornell J, et al. **J Public Health Med** 1996 Jun;18(2):127–8

Trends in mortality and health behaviors: status of white and African-American women. Macera CA, et al. **J S C Med Assoc** 1996 Oct;92(10):421–5

The Youth Health Survey: reliability and validity of an instrument for assessing cardiovascular health habits in adolescents. Gilmer MJ, et al. **J Sch Health** 1996 Mar; 66(3):106–11

Bridging student health risks and academic achievement through comprehensive school health programs. Symons CW, et al. **J Sch Health** 1997 Aug;67(6):220–7 (73 ref.)

Using the Youth Risk Behavior Survey to compare risk behaviors of Texas High School and college students. Wiley DC, et al. **J Sch Health** 1997 Feb;67(2):45–9

Effects of mail-mediated, stage-matched exercise behavior change strategies on female adults' leisure-time exercise behavior. Cardinal BJ, et al. **J Sports Med Phys Fitness** 1996 Jun;36(2):100–7

Reasons for not exercising and exercise intentions: a study of middle-aged sedentary adults. Vanden Auweele Y, et

al. **J Sports Sci** 1997 Apr;15(2):151–65

From the Centers for Disease Control and Prevention. Contraceptive practices before and after an intervention promoting condom use to prevent HIV infection and other sexually transmitted diseases among women--selected US sites, 1993–1995. **JAMA** 1997 Jun 11;277(22):1752–3

The National Longitudinal Study on Adolescent Health. Preliminary results: great expectations [editorial; comment] Klein JD. **JAMA** 1997 Sep 10;278(10):864–5. Comment on: JAMA 1997 Sep 10;278(10):823–32.

Protecting adolescents from harm. Findings from the National Longitudinal Study on Adolescent Health [see comments] Resnick MD, et al. **JAMA** 1997 Sep 10; 278(10):823–32. Comment in: JAMA 1997 Sep 10;278(10):864–5.

The health locus of control and the relationship with the demographic characteristics of children from an elementary school of Kaohsiung City. Wang RH.
Kao Hsiung I Hsueh Ko Hsueh Tsa Chih 1997 Mar; 13(3):182–9

Mind over matter about keeping warm [comment] Sperber AD, et al. **Lancet** 1997 May 10;349(9062):1337–8. Comment on: Lancet 1997 May 10;349(9062):1341–6.

Sociocultural and behavioral influences on health status among the Mississippi Choctaw. Dressler WW, et al.
Med Anthropol 1996 Dec;17(2):165–80

More thoughts on negotiating relevance [comment] Coreil J. **Med Anthropol Q** 1997 Jun;11(2):252–5. Comment on: Med Anthropol Q 1997 Jun;11(2):131–46. Comment on: Med Anthropol Q 1997 Jun;11(2):147–63.

Health risks among low-income Rhode Island adults [published erratum appears in Med Health R I 1997 Feb;80(2):64] Hesser JE, et al. **Med Health R I** 1997 Jan; 80(1):39–40

Tracking of physical activity in young children. Pate RR, et al. **Med Sci Sports Exerc** 1996 Jan;28(1):92–6

Factors influencing perceived need for dental care by active duty U.S. military personnel. Chisick MC, et al.
Mil Med 1997 Sep;162(9):586–9

The Tripler Army Medical Center LEAN Program: a healthy lifestyle model for the treatment of obesity. James LC, et al. **Mil Med** 1997 May;162(5):328–32

State- and sex-specific prevalence of selected characteristics--Behavioral Risk Factor Surveillance System, 1992 and 1993. Frazier EL, et al.
MMWR CDC Surveill Summ 1996 Dec 27;45(6):1–36

State-and sex-specific prevalence of selected characteristics--behavioral risk factor surveillance system, 1994 and 1995. Powell-Griner E, et al.
MMWR CDC Surveill Summ 1997 Aug 1;46(3):1–31

Contraceptive practices before and after an intervention promoting condom use to prevent HIV infection and other sexually transmitted diseases among women--selected U.S. sites, 1993–1995. **MMWR Morb Mortal Wkly Rep** 1997 May 2;46(17):373–7

Monthly estimates of leisure-time physical inactivity--United States, 1994. **MMWR Morb Mortal Wkly Rep** 1997 May 9;46(18):393–7

A patient's guide to safer sex. Reducing the risk of HIV and other sexually transmitted diseases. Dodge RT, et al. **N C Med J** 1997 Mar-Apr;58(2):119–21

Use of bicycle helmets by Greensboro children. Greer D, et al. **N C Med J** 1997 May-Jun;58(3):190–1; discussion 192

Are the adverse effects of transition avoidable? [news] Walker AR. **Natl Med J India** 1996 Nov-Dec;9(6):293–4

The health practices of homeless women: a causal model. Flynn L. **Nurs Res** 1997 Mar-Apr;46(2):72–7

Testing theoretical explanations of mammography use. Lauver D, et al. **Nurs Res** 1997 Jan-Feb;46(1):32–9

Alternate models of positive health practices in adolescents. Yarcheski A, et al. **Nurs Res** 1997 Mar-Apr;46(2):85–92

Health motivation: key to health promoting behavior? [letter] Haq MB, et al. **Nurse Pract** 1996 Nov;21(11):155–6

The behavioral flow sheet. A tool for the primary care provider. McAliley LG, et al. **Nurse Pract** 1996 Jun; 21(6):22–4, 33–5, 39–40

Some aspects of food choice and availability today. Bürger I. **Nutr Health** 1997;11(4):233–8

Reasons for and consequences of the low incidence of breast feeding in Scotland. Green KL. **Nutr Health** 1997; 11(4):249–54 (21 ref.)

Education, health behaviors, and the black-white difference in waist-to-hip ratio. Croft JB, et al. **Obes Res** 1996 Nov; 4(6):505–12

Psychosocial concerns and health-compromising behaviors among overweight and nonoverweight adolescents. Neumark-Sztainer D, et al. **Obes Res** 1997 May;5(3):237–49

Comparison of attitudes and behaviors related to nutrition, body size, dieting, and hunger in Russian, black-American, and white-American adolescents. Stevens J, et al.
Obes Res 1997 May;5(3):227–36

Health and safety behaviour and compliance in electroplating workshops. Halliday-Bell J, et al. **Occup Med (Oxf)** 1997 May;47(4):237–40

Cervical cancer: behavioral changes could save most women [news] **Oncology (Huntingt)** 1996 Jun;10(6):862

Future time perspective and positive health practices in young adults: an extension. Mahon NE, et al.
Percept Mot Skills 1997 Jun;84(3 Pt 2):1299–304

Profile of exercising women. Puretz SL, et al.
Percept Mot Skills 1996 Jun;82(3 Pt 1):890

Evaluation of selected life-skill modules from the contemporary health series with students in grade. Young M, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):811–8

Lifestyle, fibrinolysis and lipids. Brommer EJ, et al.
Pharm World Sci 1997 Apr;19(2):82–8 (65 ref.)

Sun-protection behaviour and self-assessed burning tendency among sunbathers. Stender IM, et al.
Photodermatol Photoimmunol Photomed 1996 Aug; 12(4):162–5

Lifestyle modifications for hypertension. The many benefits are worth the effort. Zellner C, et al. **Postgrad Med** 1996 Oct;100(4):75–9, 83 (28 ref.)

A message from preventive medicine and your physician. **Prev Med** 1997 Jul-Aug;26(4):409

Household smoking restrictions and adolescents' exposure to environmental tobacco smoke. Biener L, et al.
Prev Med 1997 May-Jun;26(3):358–63

Mediators of change in physical activity following an intervention in primary care: PACE. Calfas KJ, et al.
Prev Med 1997 May-Jun;26(3):297–304

The effects of the Child and Adolescent Trial for Cardiovascular Health upon psychosocial determinants of diet and physical activity behavior. Edmundson E, et al.
Prev Med 1996 Jul-Aug;25(4):442–54

Sun protection behaviors of the U.S. white population. Hall HI, et al. **Prev Med** 1997 Jul-Aug;26(4):401–7

Healthy lifestyles are associated with higher lymphokine-activated killer cell activity. Inoue C, et al.
Prev Med 1996 Nov-Dec;25(6):717–24

Cognitive-behavioral mediators of changing multiple behaviors: smoking and a sedentary lifestyle. King TK, et al. **Prev Med** 1996 Nov-Dec;25(6):684–91

Attitudes toward risk factor behavior of relatives of cancer patients. Kristeller JL, et al. **Prev Med** 1996 Mar-Apr; 25(2):162–9

Participation in a breast cancer screening program: influence of past behavior and determinants on future screening participation. Lechner L, et al. **Prev Med** 1997 Jul-Aug; 26(4):473–82

Rationale, design, and baseline data for Commit to Quit: an exercise efficacy trial for smoking cessation among women. Marcus BH, et al. **Prev Med** 1997 Jul-Aug;26(4):586–97

Training physicians to conduct physical activity counseling. Marcus BH, et al. **Prev Med** 1997 May-Jun;26(3):382–8

Unapproved use of high-dose combined pills in Japan: a community study on prevalence and health characteristics of the users. Nagata C, et al. **Prev Med** 1997 Jul-Aug; 26(4):565–9

Screening school personnel for cardiovascular disease risk factors: short-term impact on behavior and perceived role as promoters of heart health. O'Loughlin J, et al.
Prev Med 1996 Nov-Dec;25(6):660–7

Relative validity and repeatability of a new questionnaire on physical activity. Pols MA, et al. **Prev Med** 1997 Jan-Feb;26(1):37–43

Employment status and its health-related effects in rural Styria, Austria. Rásky E, et al. **Prev Med** 1996 Nov-Dec; 25(6):757–63

Correlates of changes in leisure time physical activity over 2 years: the Healthy Worker Project. Schmitz K, et al.
Prev Med 1997 Jul-Aug;26(4):570–9

Reliability of self-reported breast screening information in a survey of lower income women. Vacek PM, et al.
Prev Med 1997 May-Jun;26(3):287–91

Trends in cardiovascular risk factors (1984–1993) in a Swiss region: results of three population surveys. Wietlisbach V, et al. **Prev Med** 1997 Jul-Aug;26(4):523–33

The role of lifestyle in health: the epidemiology and consequences of inactivity. Dietz WH. **Proc Nutr Soc** 1996 Nov;55(3):829–40 (75 ref.)

Aspects of national health promotion programmes for youth. Levin D, et al. **Promot Educ** 1997 Jun;4(2):16–8

Shaping perceptions to motivate healthy behavior: the role of message framing. Rothman AJ, et al. **Psychol Bull** 1997 Jan;121(1):3–19 (125 ref.)

Age and sex differences in health beliefs and behaviours. Furnham A, et al. **Psychol Rep** 1997 Feb;80(1):63–6

Acquisition of high-risk behavior by African-American, Latino, and Caucasian middle-school students. Westhoff WW, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):787–95

Predictors of cigarette smoking among adolescents. Williams JG, et al. **Psychol Rep** 1997 Apr;80(2):481–2

Improving perception of air flow obstruction in asthma patients. Stout C, et al. **Psychosom Med** 1997 Mar-Apr; 59(2):201–6

Disaster: stress, immunologic function, and health behavior [editorial; comment] Ursano RJ. **Psychosom Med** 1997 Mar-Apr;59(2):142–3. Comment on: Psychosom Med 1997 Mar-Apr;59(2):109–13. Comment on: Psychosom Med 1997 Mar-Apr;59(2):114–27. Comment on: Psychosom Med 1997 Mar-Apr;59(2):128–41.

Development of the health-promotion activities of older adults measure. Padula CA. **Public Health Nurs** 1997 Apr; 14(2):123–8

CDC data systems collecting behavioral data on HIV counseling and testing. Anderson JE. **Public Health Rep** 1996;111 Suppl 1:129–32

The supplement to HIV-AIDS Surveillance project: an approach for monitoring HIV risk behaviors. Buehler JW, et al. **Public Health Rep** 1996;111 Suppl 1:133–7

Paraprofessional delivery of a theory based HIV prevention counseling intervention for women. Cabral RJ, et al.
Public Health Rep 1996;111 Suppl 1:75–82

Measuring the adoption of consistent use of condoms using the stages of change model. AIDS Community Demonstration Projects. Schnell DJ, et al.
Public Health Rep 1996;111 Suppl 1:59–68

Physical activity and health: atherosclerotic, metabolic, and hypertensive diseases. Bouchard C, et al.
Res Q Exerc Sport 1995 Dec;66(4):268–75 (70 ref.)

Exercise behavior and strategies for intervention. Marcus BH. **Res Q Exerc Sport** 1995 Dec;66(4):319–23 (33 ref.)

Descriptive epidemiology of health-related physical activity and fitness. Oja P. **Res Q Exerc Sport** 1995 Dec; 66(4):303–12 (29 ref.)

Physical activity and health: dose-response issues. Pate RR. **Res Q Exerc Sport** 1995 Dec;66(4):313–7 (39 ref.)

Physical activity, health, and well-being at different life stages. Shephard RJ. **Res Q Exerc Sport** 1995 Dec; 66(4):298–302 (44 ref.)

Nutritional behaviour differences in Germany. Thiel C, et al. **Rev Environ Health** 1996 Jan-Jun;11(1–2):35–40

Physical activity pattern in men and women at the ages of 16 and 34 and development of physical activity from adolescence to adulthood. Barnekow-Bergkvist M, et al.
Scand J Med Sci Sports 1996 Dec;6(6):359–70

Stability of habitual physical activity and sport participation: a longitudinal tracking study. Telama R, et al.
Scand J Med Sci Sports 1996 Dec;6(6):371–8

Health behaviour, social integration, perceived health and dysfunction. A comparison between patients with type I and II diabetes and controls. Aalto AM, et al.
Scand J Soc Med 1996 Dec;24(4):272–81

Relationships between health behavior, knowledge, and beliefs among Swedish blue-collar workers. Näslund GK.
Scand J Soc Med 1997 Jun;25(2):100–10

Multivariate analyses of mortality from coronary heart disease due to biological and behavioural factors. Qvist J, et al. **Scand J Soc Med** 1996 Mar;24(1):67–76

Prevalence and trends in homosexual behaviour in Norway. Veierød MB, et al. **Scand J Soc Med** 1997 Mar;25(1):33–8

Bandura's theory of self-efficacy: applications to oncology. Lev EL. **Sch Inq Nurs Pract** 1997 Spring;11(1):21–37; discussion 39–43 (62 ref.)

The promise of integrated representative surveys about sexually transmitted diseases and behavior [see comments] Ku L, et al. **Sex Transm Dis** 1997 May;24(5):299–309 (47 ref.). Comment in: Sex Transm Dis 1997 May;24(5):310–1.

Human immunodeficiency virus seroprevalence and risk assessment of a homeless population in Denver. Shlay JC, et al. **Sex Transm Dis** 1996 Jul-Aug;23(4):304–11

Physical and psychological well-being among immigrant referrals to colonoscopy. Anson O, et al. **Soc Sci Med** 1996 Nov;43(9):1309–16

Reactivity and repeatability of hygiene behaviour: structured observations from Burkina Faso. Cousens S, et al.
Soc Sci Med 1996 Nov;43(9):1299–308

Socio-regional context as a determinant of adolescents' health behaviour in Finland. Karvonen S, et al.
Soc Sci Med 1996 Nov;43(10):1467–74

Urban small area variation in adolescents' health behaviour. Karvonen S, et al. **Soc Sci Med** 1997 Oct;45(7):1089–98

Spatial patterns of human water contact and Schistosoma mansoni transmission and infection in four rural areas in Machakos District, Kenya. Kloos H, et al. **Soc Sci Med** 1997 Apr;44(7):949–68

Dietary and lifestyle correlates of passive smoking in Hong Kong, Japan, Sweden, and the U.S.A. Koo LC, et al.
Soc Sci Med 1997 Jul;45(1):159–69

Why do poor people behave poorly? Variation in adult health behaviours and psychosocial characteristics by stages of the socioeconomic lifecourse. Lynch JW, et al.
Soc Sci Med 1997 Mar;44(6):809–19

Understanding the variability in the effectiveness of community heart health programs: a meta-analysis. Sellers DE, et al. **Soc Sci Med** 1997 May;44(9):1325–39

Health behaviour and risk behaviour: socioeconomic differences in an Austrian rural county. Stronegger WJ, et al. **Soc Sci Med** 1997 Feb;44(3):423–6

Health lifestyle behaviour and socio-demographic characteristics. A study of Varna, Glasgow and Edinburgh. Uitenbroek DG, et al. **Soc Sci Med** 1996 Aug;43(3):367–77

Aids, violence and behavioral coding: information theory, risk behavior and dynamic process on core-group sociogeographic networks. Wallace R, et al.
Soc Sci Med 1996 Aug;43(3):339–52

HIV and AIDS: can we develop a common framework for analysis and action? [editorial] Lamboray JL.
Southeast Asian J Trop Med Public Health 1996 Jun; 27(2):207–9

Theories and techniques for promoting physical activity behaviours. Marcus BH, et al. **Sports Med** 1996 Nov; 22(5):321–31 (81 ref.)

Walking to health. Morris JN, et al. **Sports Med** 1997 May; 23(5):306–32 (196 ref.)

Lifestyle-associated risk factors for acute brain infarction among persons of working age. Haapaniemi H, et al.
Stroke 1997 Jan;28(1):26–30

Smokeless tobacco use among big ten wrestlers and selected associated factors. Hannam SE. **Subst Use Misuse** 1997 Feb; 32(3):369–76

Oral health of individuals aged 3–80 years in Jönköping, Sweden in 1973, 1983, and 1993. I. Review of findings on dental care habits and knowledge of oral health. Hugoson

A, et al. **Swed Dent J** 1995;19(6):225–41
Measuring the effect of a hygiene behaviour intervention by indicators of behaviour and diarrhoeal disease. Pinfold JV, et al. **Trans R Soc Trop Med Hyg** 1996 Jul–Aug; 90(4):366–71
The study of hygiene behaviour in Botswana: a combination of qualitative and quantitative methods. Kaltenthaler EC, et al. **Trop Med Int Health** 1996 Oct;1(5):690–8
Older couples' decision making on health issues. Padula C. **West J Nurs Res** 1996 Dec;18(6):675–87
Women's HIV risk reduction efforts and traditional models of health behavior: a review and critique. Gillespie CC. **Womens Health** 1997 Spring;3(1):1–30 (123 ref.)
Preventive health practices and perceived health status among women over 50. Lane MJ, et al. **Womens Health Issues** 1996 Sep–Oct;6(5):279–85
[Living conditions of prostitutes: consequences for the prevention of HIV infection] Serre A, et al. **Rev Epidemiol Sante Publique** 1996 Oct;44(5):407–16 (Eng. Abstr.) **(Fre)**
[Awakening, sleep and length of sleep in children] Woringer V. **Rev Med Suisse Romande** 1997 May;117(5):407–11 **(Fre)**
[Routine life style and health behavior—approach to a contradictory relationship] Seeba H. **Gesundheitswesen** 1997 Apr;59 Suppl 1:11–8 (Eng. Abstr.) **(Ger)**
[Health locus of control and health related risk behavior—an analysis of locus of control patterns] Barth J, et al. **Psychother Psychosom Med Psychol** 1996 Jul;46(7):247–53 (Eng. Abstr.) **(Ger)**
[Common knowledge of protective health factors—a qualitative study] Strittmatter R, et al. **Psychother Psychosom Med Psychol** 1996 Feb;46(2):68–75 (Eng. Abstr.) **(Ger)**
[Current problems (editorial)] Mertz DP. **Versicherungsmedizin** 1996 Dec 1;48(6):191–2 **(Ger)**
[The "healthy community" project—morbidity, risk factors, health behavior and psychiatric symptoms in Steiermark] Klebel H, et al. **Wien Klin Wochenschr** 1996;108(3):75–81 (Eng. Abstr.) **(Ger)**
[Healthy life style. Perspectives of prevention in modern society] Raspe H. **Z Arztl Fortbild (Jena)** 1997 Jan; 90(8):741–6 (Eng. Abstr.) **(Ger)**
[Evaluation of secondary prevention of coronary heart disease. Results of the EUROSPIRE study in the Munster region] Enbergs A, et al. **Z Kardiol** 1997 Apr;86(4):284–91 (Eng. Abstr.) **(Ger)**
[A study on the relationship between sources of health information concerning smoking and drinking, and health behavior] Kubo N, et al. **Nippon Eiseigaku Zasshi** 1996 Jul;51(2):579–87 (Eng. Abstr.) **(Jpn)**
[Response rates and non-response bias in a health-related mailed survey] Nakai S, et al. **Nippon Koshu Eisei Zasshi** 1997 Mar;44(3):184–91 (Eng. Abstr.) **(Jpn)**
[Characteristics of smoking, drinking, dietary habits, and physical exercise in health behavioral models] Ozasa K, et al. **Nippon Koshu Eisei Zasshi** 1995 Dec;42(12):1029–41 (Eng. Abstr.) **(Jpn)**
[Relationship between medical services utilization and preventive health behavior] Takemura S, et al. **Nippon Koshu Eisei Zasshi** 1997 Feb;44(2):102–12 (Eng. Abstr.) **(Jpn)**
[AIDS seminar for personnel managers in japanese companies—application of health belief model and health norm model] Tanaka H. **Nippon Koshu Eisei Zasshi** 1996 Jun;43(6):479–85 **(Jpn)**
[Sun, surfing and cigarettes] Valbø A. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):400–1 **(Nor)**
[Physical fitness of the ophthalmologic surgeon] Toczołowski J, et al. **Klin Oczna** 1995 Sep–Oct;97(9–10):305–7 (Eng. Abstr.) **(Pol)**
[Health behaviors in Portugal. Epidemiological studies] do Carmo I. **Acta Med Port** 1997 Jun–Jul;10(6–7):433–45 (Eng. Abstr.) **(Por)**
[Health conditions among the elderly] **Salud Publica Mex** 1996 Nov–Dec;38(6):533 **(Spa)**

ETHNOLOGY

HIV testing among low-income African-American mothers. Battle RS, et al. **AIDS Educ Prev** 1996 Apr;8(2):165–75
Japanese risk behaviors and their HIV/AIDS-preventive behaviors. Munakata T, et al. **AIDS Educ Prev** 1996 Apr; 8(2):115–33
Differences between Asian-American and white American dentists in attitudes toward treatment of HIV-positive patients. Raphael KG, et al. **AIDS Educ Prev** 1996 Apr; 8(2):155–64
Correlates of compliance with measurement protocols in a Latino nutrition-intervention study. Frack SA, et al. **Am J Prev Med** 1997 Mar-Apr;13(2):131–6
Barriers to breast and cervical cancer screening among Vietnamese-American women. McPhee SJ, et al. **Am J Prev Med** 1997 May-Jun;13(3):205–13
Correlates of health promotion behaviors in low-income Black women and Latinas. Sanders-Phillips K. **Am J Prev Med** 1996 Nov-Dec;12(6):450–8
Diet and hygiene in the lives of Gypsy Travellers in Hertfordshire. Edwards DM, et al. **Community Dent Health** 1997 Mar;14(1):41–6
Association among health habits, risk factors, and all-cause mortality in a black California population. Fraser GE, et al. **Epidemiology** 1997 Mar;8(2):168–74
Changes in cardiovascular disease knowledge and behavior in a low-education population of African-American and white adults. Smith NL, et al. **Ethn Dis** 1996 Autumn; 6(3–4):244–54
The impact of sociodemographic variables on immunization coverage of children. Waldhoer T, et al. **Eur J Epidemiol** 1997 Feb;13(2):145–9
Immigrant status and risk behaviors [letter; comment] Michaud PA, et al. **J Adolesc Health** 1996 Dec;19(6):378–80 . Comment on: J Adolesc Health 1995 Aug;17(2):99–105.
Patterns of health risk behaviors for chronic disease: a comparison between adolescent and adult American Indians living on or near reservations in Montana. Nelson DE, et al. **J Adolesc Health** 1997 Jul;21(1):25–32
Studying knowledge, culture, and behavior in applied medical anthropology [see comments] Pelto PJ, et al. **Med Anthropol Q** 1997 Jun;11(2):147–63 (29 ref.). Comment in: Med Anthropol Q 1997 Jun;11(2):252–5.
Behavioral Risk Factor Survey of Korean Americans--Alameda County, California, 1994. **MMWR Morb Mortal Wkly Rep** 1997 Aug 22;46(33):774–7
Wellness motivation theory: an exploration of theoretical relevance. Fleury J. **Nurs Res** 1996 Sep–Oct;45(5):277–83
Health behaviors of an elderly Filipino group. DiPasquale-Davis J, et al. **Public Health Nurs** 1997 Apr; 14(2):118–22
An economic and sociological interpretation of social differences in health-related behaviour: an encounter as a guide to social epidemiology. Lindbladh E, et al. **Soc Sci Med** 1996 Dec;43(12):1817–27

HEALTH BENEFIT PLANS, EMPLOYEE

The influence of a Federal comprehensive health care system on the detection and outcome of primary small bowel malignancies. Lukish J, et al. **Am Surg** 1997 Apr; 63(4):338–40
Subsidized dental care improves caries status in male industrial workers. Ahlberg J, et al. **Community Dent Oral Epidemiol** 1996 Aug;24(4):249–52
Demand for and utilization of dental services among Hong Kong employees with and without dental benefit coverage. So FH, et al. **Community Dent Oral Epidemiol** 1996 Jun; 24(3):201–6
Labour productivity effects of prescribed medicines for chronically ill workers. Rizzo JA, et al. **Health Econ** 1996 May-Jun;5(3):249–65
Consumers. All in the family [news] **Hosp Health Netw** 1996 Dec 20;70(24):11
Stanford University: a prudent buyer case study of cost efficiency and quality of care. Franklin JC. **Int Anesthesiol Clin** 1995 Fall;33(4):49–67
Will managed care collapse at the hands of the civil justice system? ERISA protection may end. Gale A. **Mo Med** 1996 Feb;93(2):81–4
How to shop for 24-hour care. Hergenrader R. **Occup Health Saf** 1996 Aug;65(8):80–3
The employer's bird's-eye view. Marrone S. **Pa Med** 1997 Jan;100(1):20–1
Employers continue to embrace managed care. Stewart-Meyer A. **Tenn Med** 1997 Feb;90(2):47–9
A fine mess. BeSaw L. **Tex Med** 1997 Jul;93(7):33–6
Building a bond. Ortolon K. **Tex Med** 1997 Apr;93(4):28–30, 33
Post-retirement health coverage. Dolan MJ. **Wis Med J** 1996 Apr;95(4):254
[Medical insurance for working people and government health inspection] Retnev VM. **Probl Sotsialnoi Gig Istor Med** 1994 Nov-Dec;(6):26–8 (Eng. Abstr.) **(Rus)**

ECONOMICS

Pharmacy directors, employers paint picture of HMO pharmacy benefit [news] **Am J Health Syst Pharm** 1996 Sep 15;53(18):2136, 2142
Cost of health benefits becoming major business issue, conference told. Silversides A. **Can Med Assoc J** 1996 Oct 15;155(8):1175–6
A four-year comparison of physical health benefit expenditures of mental and physical health claimants. Harlow K. **Community Ment Health J** 1997 Jun; 33(3):189–97
Employer-based health insurance and seniors: the case of Bermuda. Chappell NL, et al. **Gerontologist** 1996 Feb; 36(1):63–9
Consumers' sensitivity to health plan premiums: evidence from a natural experiment in California. Buchmueller TC, et al. **Health Aff (Millwood)** 1996 Spring;15(1):143–51
Risk adjustment: the missing piece of market competition. Shewry S, et al. **Health Aff (Millwood)** 1996 Spring; 15(1):171–81
Health care and America's rolling depression. Hodge MH. **Health Care Manage Rev** 1996 Summer;21(3):7–12 (17 ref.)
Insurance. A tax that could leave workers flat. Meyer H. **Hosp Health Netw** 1996 Oct 5;70(19):72, 74, 76
"Incessantly under fire". Medical ethics in a material world. Lister G. **J Hand Surg [Br]** 1996 Dec;21(6):707–12
Managed care. A product of market dynamics [see comments] Drake DF. **JAMA** 1997 Feb 19;277(7):560–3. Comment in: JAMA 1997 May 21;277(19):1517–8. Comment in: JAMA 1997 Jun 11;277(22):1812–3.
The cost of poor birth outcomes in employer-sponsored health plans. Chollet DJ, et al. **Med Care** 1996 Dec; 34(12):1219–34
Case management in psychiatric inpatient recapture. Carter AM. **Mil Med** 1997 Jan;162(1):44–50
Banking for health [editorial] Slobodien HD. **N J Med** 1996 Feb;93(2):81–2

LEGISLATION & JURISPRUDENCE

The private insurance industry's tactics against suspected homosexuals: redlining based on occupation, residence and marital status. Li KC. **Am J Law Med** 1996;22(4):477–502 (202 ref.)
Sex, lies, and health insurance: employer-provided health insurance coverage of abortion and infertility services and the ADA. Millsap D. **Am J Law Med** 1996;22(1):51–84 (309 ref.)
Trav'lin' light: early retirees and the availability of post-retirement health benefits. Russell TE. **Am J Law Med** 1996;22(4):537–62
Bank on it. Thrift, theft or confusion? Medical savings accounts may bring all three [news] Meyer H. **Hosp Health Netw** 1997 Feb 5;71(3):26, 28
Policing ERISA. Plenty of bark, but no bite. Meyer HR. **Hosp Health Netw** 1997 Jul 5;71(13):39–40
The limits of state action? The myths and realities of ERISA. Employee Retirement Income Security Act. Crittenden R. **J Am Board Fam Pract** 1996 May-Jun;9(3):208–11
It doesn't add up: the broken promises of lifetime health benefits, Medicare, and accounting rule FAS 106 do not equal satisfactory medical coverage for retirees. Ossi GJ. **J Contemp Health Law Policy** 1996 Fall;13(1):233–63
Direct contracting: potential legal and regulatory barriers. O'Brien CL. **Minn Med** 1996 Feb;79(2):21–5
Consumer clout. Wetzell S. **Minn Med** 1996 Feb;79(2):15–9
State regulation of managed care and the Employee Retirement Income Security Act. Mariner WK. **N Engl J Med** 1996 Dec 26;335(26):1986–90
Can we afford medical savings accounts? Keeler LL. **N J Med** 1996 Nov;93(11):67–8
New limited parity law requires equal annual and lifetime limits on coverage of mental, physical illness [news] **Psychiatr Serv** 1996 Nov;47(11):1280

ORGANIZATION & ADMINISTRATION

Understanding the provision of postretirement health care and pension benefits: which firm characteristics are most explanatory? Hirshorn BA, et al. **Gerontologist** 1996 Oct; 36(5):637–48
Managed competition in California's small-group insurance market. Buchmueller TC. **Health Aff (Millwood)** 1997 Mar-Apr;16(2):218–28
Purchasing. Strength in numbers [news] **Hosp Health Netw** 1997 May 20;71(10):14
Dealing direct. If you want to play in the big leagues of direct contracting, pay attention to these risks. Gee EP, et al. **Hosp Health Netw** 1997 Aug 20;71(16):46, 48
Employee benefits. The doctor is in. Hudson T. **Hosp Health Netw** 1997 Jan 20;71(2):64
Benefits. Raising the bar. Nordhaus-Bike AM. **Hosp Health Netw** 1997 Mar 20;71(6):80
Employee benefits. Caught in the middle. Ziegler J. **Hosp Health Netw** 1997 Jul 20;71(14):68
Medical savings accounts: real patient power [letter] Blevins SA. **Nurse Pract** 1996 Sep;21(9):14–5, 148

STANDARDS

The consumer health plan value survey: round two. Allen HM Jr, et al. **Health Aff (Millwood)** 1997 Jul-Aug; 16(4):156–66
Prevention. Employers get a clue. Montague J. **Hosp Health Netw** 1997 Mar 20;71(6):80, 82
New HEDIS means more information about HMOs. Grimaldi PL. **J Health Care Finance** 1997 Summer; 23(4):40–50
Six steps to maximizing HEDIS results. Parisi LL, et al. **J Nurs Care Qual** 1996 Dec;11(2):8
Sizing up our professional performance. Can we use HEDIS as a springboard to improvement? [editorial] Setness PA. **Postgrad Med** 1996 Dec;100(6):11–2, 15–6
Evaluation of the HEDIS measure of behavioral health care quality. Health Plan Employer Data and Information Set [see comments] Druss B, et al. **Psychiatr Serv** 1997 Jan; 48(1):71–5. Comment in: Psychiatr Serv 1997 Jul;48(7):956–7.

STATISTICS & NUMERICAL DATA

Trends in health insurance coverage in California, 1989–1993. Brown ER. **Health Aff (Millwood)** 1996 Spring; 15(1):118–30
Insurance ... California has led the pack on managed care [news] **Hosp Health Netw** 1997 Feb 20;71(4):10
Marital status, spousal coverage, and the gender gap in employer-sponsored health insurance. Buchmueller TC. **Inquiry** 1996–97 Winter;33(4):308–16
Playing by the rules and losing: health insurance and the working poor. Seccombe K, et al. **J Health Soc Behav** 1995 Jun;36(2):168–81

Access to health care. Part 2: Working-age adults. Bloom B, et al. **Vital Health Stat 10** 1997 Jul;(197):1-47

TRENDS

Image and reality: managed-care experiences by type of plan. Schoen CA, et al. **Bull N Y Acad Med** 1996 Winter;73(2 Suppl):506-31

What is driving health system change? [see comments] Etheredge L, et al. **Health Aff (Millwood)** 1996 Winter; 15(4):93-104 (8 ref.). Comment in: Health Aff (Millwood) 1996 Winter;15(4):111-13. Comment in: Health Aff (Millwood) 1996 Winter;15(4):114-5.

The new dominance of managed care: insurance trends in the 1990s. Jensen GA, et al. **Health Aff (Millwood)** 1997 Jan-Feb;16(1):125-36

Characteristics and growth of managed behavioral health care firms. Kihlstrom LC. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):127-30

Employers ... about 25 percent of American companies currently have employee wellness programs [news] [published erratum appears in Hosp Health Netw 1996 Dec 5;70(23):8] **Hosp Health Netw** 1996 Nov 5;70(21):16, 18

Insurance ... the number of American workers without health insurance will steadily rise through 2002 [news] **Hosp Health Netw** 1996 Oct 20;70(20):10-1

An examination of the decline in employment-based health insurance between 1988 and 1993. Fronstin P, et al. **Inquiry** 1996-97 Winter;33(4):317-25

The evolving health care system: changing paradigms and the organized system of care. England MJ. **J Allied Health** 1997 Winter;26(1):7-12

The decline in health insurance and labor market trends. Fronstin P. **Stat Bull Metrop Insur Co** 1996 Jul-Sep; 77(3):28-36

UTILIZATION

Choosing a health plan: what information will consumers use? Tumlinson A, et al. **Health Aff (Millwood)** 1997 May-Jun;16(3):229-38

Income, health status, and insurance coverage of small group employees in a voluntary purchasing arrangement. Christianson JB, et al. **J Health Care Poor Underserved** 1996 May;7(2):122-39

HEALTH BENEFITS see **INSURANCE BENEFITS**

HEALTH CAMPAIGNS see **HEALTH PROMOTION**

HEALTH CARE

see related

DELIVERY OF HEALTH CARE

Review of published clinical trials conducted in Singapore from 1959 to 1994. Lee HP, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):487-91 (42 ref.)

Discrimination in health care [editorial; comment] Thomson GE. **Ann Intern Med** 1997 Jun 1;126(11):910-2. Comment on: Ann Intern Med 1997 Jun 1;126(11):898-906.

What makes a just healthcare system? [editorial] Benatar SR. **BMJ** 1996 Dec 21-28;313(7072):1567-8

Citizens have their say on health care [news] Bower H. **BMJ** 1996 Nov 9;313(7066):1164

Falling back on charity [editorial] Pinker R. **BMJ** 1996 Dec 21-28;313(7072):1566

New connections between medical knowledge and patient care. Weed LL. **BMJ** 1997 Jul 26;315(7102):231-5

Negative health care environment weighing on residents, survey reveals. Rafuse J. **Can Med Assoc J** 1997 Apr 15; 156(8):1186

Medical schools seek to overcome "invisibility" of gay patients, gay issues in curriculum [see comments] Robb N. **Can Med Assoc J** 1996 Sep 15;155(6):765-70. Comment in: Can Med Assoc J 1996 Sep 15;155(6):709-11. Comment in: Can Med Assoc J 1996 Dec 15;155(12):1664.

Gay, lesbian and bisexual health care issues and medical curricula [editorial; comment] [see comments] Robinson G, et al. **Can Med Assoc J** 1996 Sep 15;155(6):709-11. Comment on: Can Med Assoc J 1996 Sep 15;155(6):765-70. Comment in: Can Med Assoc J 1996 Dec 15;155(12):1666.

The times they are confusing. What lies ahead for the new health minister and physicians in Canada? [editorial] Hoey J, et al. **CMAJ** 1997 Jul 1;157(1):39-41

Health Affairs index 1992-1996. **Health Aff (Millwood)** 1997; 16 Suppl:1-61

6th annual meeting of the Society for Healthcare Epidemiology of America. Washington D.C., April 21-23, 1996. Abstracts. **Infect Control Hosp Epidemiol** 1996 May; 17(5 Pt 2):P4-60

Consumers' healthcare rights in Brazil. Schmidt MJ. **Int Nurs Rev** 1996 Sep-Oct;43(5):139-41

Vulnerability, health and health care. Rogers AC. **J Adv Nurs** 1997 Jul;26(1):65-72 (31 ref.)

The contribution of medical care to mortality decline: McKeown revisited. Mackenbach JP. **J Clin Epidemiol** 1996 Nov;49(11):1207-13

The dark side of laughter: males and U.S. health care. Kilwein JH. **J Clin Pharm Ther** 1997 Feb;22(1):1-2

A two way view of gender bias in medicine [editorial] Ruiz MT, et al. **J Epidemiol Community Health** 1997 Apr; 51(2):106-9 (45 ref.)

Determinants of patient adherence to consultative comprehensive geriatric assessment recommendations. Frank JC, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan; 52(1):M44-51

Commentary: purpose-straight chiropractic: not science, not health care [letter] Gentile JM. **J Manipulative Physiol Ther** 1996 Jan;19(1):61-3

Can doctors help keep kids in school? Beck M. **J Med Assoc Ga** 1996 Sep;85(3):139-41

The commercialization of American medicine: are we headed for curing without caring? [editorial] Souba WW. **J Surg Res** 1997 Jan;67(1):1-3

Information technologies in healthcare. Davis RB. **Kans Med** 1995 Winter;96(4):167-8

The people's health competency collegium. Entin EJ. **Med Health R I** 1996 Aug;79(8):299-302

Random reflections on science, technique and art, applied to medicine and medical informatics. Grémy F. **Methods Inf Med** 1996 Sep;35(3):173-7

Medical informatics: once more towards systematization [editorial] Haux R. **Methods Inf Med** 1996 Sep;35(3):189-92

Medical informatics, artefacts or science? [editorial] Wyatt J. **Methods Inf Med** 1996 Sep;35(3):197-200

The shifting horizon of medical practice in North Carolina. Seligson RW. **N C Med J** 1996 Mar-Apr;57(2):70-3

Global health care and neurosurgeons. Wakai S. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):483-9; discussion 489-90 (50 ref.)

Is there really a health care crisis? [letter] Greenwald D. **Plast Reconstr Surg** 1996 Dec;98(7):1322

Intra-household allocation of food and health care: current findings and understandings--introduction. Messer E. **Soc Sci Med** 1997 Jun;44(11):1675-84 (46 ref.)

A plan for a new health leader training course at Tokai University. Okazaki I. **Tokai J Exp Clin Med** 1995 Sep; 20(3):176-8

Privatization--a balancing act. Muschell J. **World Health Forum** 1996;17(1):37-41

[The health of prisoners] Gentilini M, et al. **Bull Acad Natl Med** 1997 Mar 18;181(3):569-99; discussion 599-601 (48 ref.) (Eng. Abstr.) **(Fre)**

[Pharmaceutical care] Vervaeren J. **J Pharm Belg** 1996 Jul-Aug;51(4):208-15 (9 ref.) **(Fre)**

[Health policy leadership. American College of Obstetricians and Gynecologists] Wilbanks GD. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Aug; 48(8):689-93 **(Jpn)**

[Global health care: seeking a new paradigm of health care for all] Wakai S. **No Shinkei Geka** 1997 Apr;25(4):299-306 (45 ref.) **(Jpn)**

[9 reflexions on health and medical education in Mexico] Narro J. **Gac Med Mex** 1994 Jul-Aug;130(4):210-7 (Eng. Abstr.) **(Spa)**

ECONOMICS

Economic evaluation of health care interventions: an economist's perspective [editorial] Gafni A. **ACP J Club** 1996 Mar-Apr;124(2):A12-4

Adolescence and senescence: new challenges for the Formerly Socialist Economies of Europe (FSE). Balogh A. **Adv Contracept** 1996 Dec;12(4):315-8 (13 ref.)

Efficiency and rationality in the planning of health care for people with AIDS: an application of the balance of care approach. North-East Italian Group for Planning of AIDS Health Care. Tramarin A, et al. **AIDS** 1997 May; 11(6):809-16

Confronting change. Brockenbrough EC. **Am J Surg** 1997 May;173(5):368-70

Letter from America: a time for reflection. Bentley SA. **Clin Lab Haematol** 1996 Mar;18(1):59-60

Are there socio-economic differences in survival after acute myocardial infarction? Wilhelmsen L, et al. **Eur Heart J** 1996 Nov;17(11):1619-23

Problems of the Polish radiology in light of anticipated changes in the system of financing and organisation of the health care. Pruszyński B. **Eur Radiol** 1997;7(1):135-7 (5 ref.)

The effect of gastroenterology training on the efficiency and cost of care provided to patients with diverticulitis [see comments] Zarling EJ, et al. **Gastroenterology** 1997 Jun; 112(6):1859-62. Comment in: Gastroenterology 1997 Jun;112(6):2147-50.

ACOG committee opinion. Cost containment in medical care. Number 171, May 1996. Committee on Practice Management. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1996 Jul;54(1):69-70

The JIM interview. Bruce C. Vladeck [interview] Vladeck BC. **J Investig Med** 1997 Aug;45(6):328-34

Failings of the purchaser-provider split [editorial] Milner P, et al. **J Public Health Med** 1996 Dec;18(4):379-80

Contempo 1997: economics [letter] Dveirin K, et al. **JAMA** 1997 Oct 8;278(14):1149; discussion 1150

Economics. Reinhardt UE. **JAMA** 1997 Jun 18; 277(23):1850-1

Free trade in medicine: new challenges for the profession. De Ville K. **N C Med J** 1996 Mar-Apr;57(2):74-6

The evolving health care market: professionalism and value at the envelope's edge. Meyer GS. **Nutrition** 1996 Apr; 12(4):285-6

Healthcare economics and endophthalmitis [editorial; comment] Parke DW 2nd. **Ophthalmology** 1997 May; 104(5):737-8. Comment on: Ophthalmology 1997 May;104(5):739-45.

LEGISLATION & JURISPRUDENCE

Is health care regulation really dead? Keepnews D. **Am J Nurs** 1997 Jan;97(1):66-7

Health care among forgotten issues in forgettable federal election. Gray C. **CMAJ** 1997 Jul 1;157(1):57-8

Health care fraud enforcement initiatives in Maryland. Harris CS. **Md Med J** 1996 Oct;45(10):861-5

Dedication to the health of our state. Whitman CT. **N J Med** 1997 Jun;94(6):27-8

METHODS

It takes a revolution. Restoring the balance in health care. Wootton P. **J Okla State Med Assoc** 1997 May-Jun; 90(5):191-4

[Dynamics in tuberculosis morbidity in the Orenburg region in 1980-1995] Golanov VS, et al. **Probl Tuberk** 1997;(1):61 **(Rus)**

ORGANIZATION & ADMINISTRATION

New models of health care in the home and in the work site. Meurer LN, et al. **Am Fam Physician** 1997 Aug; 56(2):384-6, 389

Problems of the Polish radiology in light of anticipated changes in the system of financing and organisation of the health care. Pruszyński B. **Eur Radiol** 1997;7(1):135-7 (5 ref.)

A letter from America [letter] Kisslo J. **Heart** 1997 Aug;78 Suppl 1:29-30

Report of the Ad Hoc Committee on the Oklahoma Health Care Authority and SoonerCare [news] McCaffree MA, et al. **J Okla State Med Assoc** 1997 May-Jun;90(5):195-203

East meets west to cure Russia's ills [news] Skolnick AA. **JAMA** 1997 Feb 26;277(8):613-4

STANDARDS

A relative-value-based system for calculating faculty productivity in teaching, research, administration, and patient care. Hilton C, et al. **Acad Med** 1997 Sep; 72(9):787-93

Much effort is spent on treating drug misusers in prison [letter; comment] Armitage PL. **BMJ** 1996 Oct 12; 313(7062):942. Comment on: BMJ 1996 Jun 29;312(7047):1671.

American Diabetes Association: clinical practice recommendations 1997 [see comments] **Diabetes Care** 1997; 20 Suppl 1:S1-70. Comment in: Diabetes Care 1997 Jun;20(6):1044-5.

Managed care--does it affect the standard of care? [editorial] [see comments] Classé JG. **J Am Optom Assoc** 1997 Feb; 68(2):76-9. Comment in: J Am Optom Assoc 1997 Jul;68(7):410.

The evolving role of outcomes measurement and management in healthcare. Licciardone JC. **J Am Osteopath Assoc** 1997 May;97(5):290-2 (17 ref.)

Intraocular lens implantation: has it become the standard of care for children? [editorial; comment] Wilson ME. **Ophthalmology** 1996 Nov;103(11):1719-20. Comment on: Ophthalmology 1996 Nov;103(11):1871-5.

Two chairs and beyond: protecting our patients and our medical profession. Wootton P. **Va Med Q** 1997 Summer; 124(3):170-3

STATISTICS & NUMERICAL DATA

The validity of self-reported health-care utilization by AIDS patients. Weissman JS, et al. **AIDS** 1996 Jun;10(7):775-83

Reliability of environmental, biological and health characteristics of infants from a developing country. Fuchs SC, et al. **Int J Epidemiol** 1996 Oct;25(5):1005-8

Eye care for elderly Americans with diabetes mellitus. Failure to meet current guidelines. Wang F, et al. **Ophthalmology** 1996 Nov;103(11):1744-50

TRENDS

A call for action from the National Forum on Health [editorial] [see comments] Watanabe M. **Can Med Assoc J** 1997 Apr 1;156(7):999-1000. Comment in: CMAJ 1997 Jul 15;157(2):139.

The future of medicine in Hong Kong, SAR, China [editorial; comment] Todd D. **J R Coll Physicians Lond** 1997 Jul-Aug;31(4):358-9. Comment on: J R Coll Physicians Lond 1997 Jul-Aug;31(4):458-63. Comment on: J R Coll Physicians Lond 1997 Jul-Aug;31(4):464-7.

A piece of my mind. A rude awakening. Panush RS, et al. **JAMA** 1997 Feb 19;277(7):515-6

A collective vision of health care in the year 2020. Fubini S. **Nutrition** 1997 Jan;13(1):62-3

Telemedicine and competitive change in health care. LaMay CL. **Spine** 1997 Jan 1;22(1):88-97

UTILIZATION

The validity of self-reported health-care utilization by AIDS patients. Weissman JS, et al. **AIDS** 1996 Jun;10(7):775-83

Health, health care utilization and living conditions in foreign-born diabetic patients in southern Sweden. Hjelm K, et al. **J Intern Med** 1997 Aug;242(2):131-41

Health care utilization surveys: what do they tell us? [editorial] Kutty VR. **Natl Med J India** 1996 Nov-Dec; 9(6):255-6

Morbidity pattern, health care utilization and per capita

HEALTH CARE

health expenditure in a rural population of Tamil Nadu [see comments] Rajaratnam J, et al. **Natl Med J India** 1996 Nov-Dec;9(6):259-62. Comment in: Natl Med J India 1997 Mar-Apr;10(2):97-8.

HEALTH CARE COALITIONS

Public health ... people are looking to their own neighborhoods [news] **Hosp Health Netw** 1997 Jun 20; 71(12):28

Purchasing. Strength in numbers [news] **Hosp Health Netw** 1997 May 20;71(10):14

Evaluating the effects of a community coalition's efforts to reduce illegal sales of alcohol and tobacco products to minors. Lewis RK, et al. **J Community Health** 1996 Dec; 21(6):429-36

The political agenda of health care for African Americans. Brooks TJ 3rd. **J Health Care Poor Underserved** 1997 Aug; 8(3):377-82; discussion 382-3

Nursing Workforce 2000: the Ohio Collaborative Project. Shaikh L, et al. **J Nurs Adm** 1997 Apr;27(4):4-5, 36

The mother-friendly childbirth initiative. The first consensus initiative of the Coalition for Improving Maternity Services. **J Nurse Midwifery** 1997 Jan-Feb;42(1):59-63

An invitational workshop on collaboration between quality improvement organizations and business coalitions. Lee D, et al. **Jt Comm J Qual Improv** 1997 Jun;23(6):334-41

Coalition president urges policy board to focus on the policy and practices affecting cancer research [news] **Oncology (Huntingt)** 1997 Jul;11(7):971, 975

A trial of church-based smoking cessation interventions for rural African Americans. Schorling JB, et al. **Prev Med** 1997 Jan-Feb;26(1):92-101

Defining quality--moving beyond the metaphysical debate. Wencel SL. **Wis Med J** 1996 Feb;95(2):86-9

ECONOMICS

Physician strategies in a managed care environment [editorial] Lee-Llacer Z. **Md Med J** 1996 Mar; 45(3):197-200

ORGANIZATION & ADMINISTRATION

Exercising purchasing power for preventive care. Schauffler HH, et al. **Health Aff (Millwood)** 1996 Spring;15(1):73-85

Ethics ... Coalition for Quality End-of-Life Care -news- **Hosp Health Netw** 1996 Oct 20;70(20):14, 16

The role of a community coalition in the development of health services for the poor and uninsured. Bibeau DL, et al. **Int J Health Serv** 1996;26(1):93-110

Shots for tots: Louisiana's infant immunization initiative. Broussard LA, et al. **J Soc Pediatr Nurs** 1996 Oct-Dec; 1(3):113-6

HEALTH CARE COSTS

see related
HEALTH EXPENDITURES

"What's this going to cost, Doctor?" Bodurtha JN. **Acad Med** 1996 Sep;71(9):937-8

Economic consequences of multiple sclerosis for Canadians. Asche CV, et al. **Acta Neurol Scand** 1997 May;95(5):268-74

The cost of a hip fracture. Estimates for 1,709 patients in Sweden [see comments] Zethraeus N, et al. **Acta Orthop Scand** 1997 Feb;68(1):13-7. Comment in: Acta Orthop Scand 1997 Feb;68(1):1-2.

Idiopathic anaphylaxis: long-term follow-up, cost, and outlook. Krasnick J, et al. **Allergy** 1996 Oct;51(10):724-31

Cost-effective management of malignant potentially fatal asthma. Levenson T, et al. **Allergy Asthma Proc** 1997 Mar-Apr;18(2):73-8

Clinical status of patients removed from a transplant waiting list rivals that of transplant recipients at significant cost savings. Levine TB, et al. **Am Heart J** 1996 Dec; 132(6):1189-94

Quality assessment in anatomic pathology in the cost-conscious era. Zarbo RJ. **Am J Clin Pathol** 1996 Oct; 106(4 Suppl 1):S3-10 (58 ref.)

Community pharmacists' interventions may reduce health care costs [news] **Am J Health Syst Pharm** 1997 Jun 15; 54(12):1388

Cost comparison of single daily i.v. doses of ceftriaxone versus continuous infusion of cefotaxime. Hitt CM, et al. **Am J Health Syst Pharm** 1997 Jul 15;54(14):1614-8

Infection prevention and control in the managed care era: dinosaur, dragon, or dark horse? Jackson MM. **Am J Infect Control** 1997 Feb;25(1):38-43

Determining the clinical efficacy and cost savings of successful external cephalic version. Mauldin JG, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1639-44

The 25-year health care costs of women who remain overweight after 40 years of age. Gorsky RD, et al. **Am J Prev Med** 1996 Sep-Oct;12(5):388-94

The economic impact of psychotherapy: a review. Gabbard GO, et al. **Am J Psychiatry** 1997 Feb;154(2):147-55 (47 ref.)

Inner-city health care. American College of Physicians. **Ann Intern Med** 1997 Mar 15;126(6):485-90

Cost of long-term complications of deep venous thrombosis of the lower extremities: an analysis of a defined patient population in Sweden. Bergqvist D, et al. **Ann Intern Med** 1997 Mar 15;126(6):454-7

Outcomes and cost-effectiveness of initiating dialysis and continuing aggressive care in seriously ill hospitalized adults. SUPPORT Investigators. Study to Understand Prognoses and Preferences for Outcomes and Risks of Treatments. Hamel MB, et al. **Ann Intern Med** 1997 Aug 1;127(3):195-202

How much are we willing to pay for information about quality? [letter] Iezzoni LI. **Ann Intern Med** 1997 May 1; 126(9):746

How much are we willing to pay for information about quality of care? [editorial; comment] [published errata appear in Ann Intern Med 1997 Apr 1;126(7):588 and 1997 May 1;126(9):746] Iezzoni LI. **Ann Intern Med** 1997 Mar 1;126(5):391-3. Comment on: Ann Intern Med 1997 Mar 1;126(5):347-54.

Information about quality of care [letter] McDonald CJ, et al. **Ann Intern Med** 1997 Oct 1;127(7):575

Costs, outcomes, and patient satisfaction by provider type for patients with rheumatic and musculoskeletal conditions: a critical review of the literature and proposed methodologic standards [see comments] Solomon DH, et al. **Ann Intern Med** 1997 Jul 1;127(1):52-60 (35 ref.). Comment in: Ann Intern Med 1997 Jul 1;127(1):72-4.

Nonnarcotic analgesics: prevalence and estimated economic impact of toxicities [see comments] McGoldrick MD, et al. **Ann Pharmacother** 1997 Feb;31(2):221-7 (50 ref.). Comment in: Ann Pharmacother 1997 Feb;31(2):245-8.

Clinical consequences of nonnarcotic analgesic use [editorial; comment] Matzke GR. **Ann Pharmacother** 1997 Feb; 31(2):245-8. Comment on: Ann Pharmacother 1997 Feb;31(2):221-7.

Laparoscopic cholecystectomy-related bile duct injuries: a health and financial disaster. Savader SJ, et al. **Ann Surg** 1997 Mar;225(3):268-73

Managing the care of schizophrenia. Lessons from a 4-year Massachusetts Medicaid study. Dickey B, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):945-52

Medical costs attributed to depression among patients with a history of high medical expenses in a health maintenance organization. Henk HJ, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):899-904

Enrollment duration, service use, and costs of care for severely mentally ill members of a health maintenance organization. McFarland BH, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):938-44

Tobacco and children. An economic evaluation of the medical effects of parental smoking. Aligne CA, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):648-53

Pediatric carve outs. The use of disease-specific conditions as risk adjusters in capitated payment systems. Andrews JS, et al. **Arch Pediatr Adolesc Med** 1997 Mar;151(3):236-42

Health care costs of people referred to an aged care assessment team: the effect of cognitive impairment. LoGiudice D, et al. **Aust N Z J Public Health** 1997 Jun; 21(3):311-5

Estimating medical costs from incomplete follow-up data. Lin DY, et al. **Biometrics** 1997 Jun;53(2):419-34

User fees [editorial] Creese A. **BMJ** 1997 Jul 26; 315(7102):202-3

Health authorities plan legal action against tobacco companies [news] Dyer C. **BMJ** 1997 Jun 28; 314(7098):1849

People who cause accidents should pay for victims' care [news] Dyer C. **BMJ** 1997 Jan 4;314(7073):10

How to read a paper. Papers that tell you what things cost (economic analyses). Greenhalgh T. **BMJ** 1997 Sep 6; 315(7108):596-9 (18 ref.)

General practice fundholding and health care costs [editorial; comment] Keeley D. **BMJ** 1997 Jul 19;315(7101):139. Comment on: BMJ 1997 Jul 19;315(7101):166-70.

Personal paper: how to get the best health outcome for a given amount of money. Sutton M. **BMJ** 1997 Jul 5; 315(7099):47-9

Which antidepressant? A commentary from general practice on evidence-based medicine and health economics [see comments] Kernick DP. **Br J Gen Pract** 1997 Feb; 47(415):95-8. Comment in: Br J Gen Pract 1997 May;47(418):327-8.

Use of hospital services by breast cancer patients by stage of the disease: implications on the costs of cancer control. Kaija H, et al. **Breast Cancer Res Treat** 1996;37(3):237-41

The economics of treating tibia fractures. The cost of delayed unions. Heckman JD, et al. **Bull Hosp Jt Dis** 1997; 56(1):63-72 (26 ref.)

Are low-risk maternity clinics financially viable? [letter] Oliver C. **Can Fam Physician** 1997 Jun;43:1044

Patient attitudes regarding pca and associated costs. Badner NH, et al. **Can J Anaesth** 1997 Mar;44(3):255-8

Reference-based pricing (RBP) of prescription drugs [letter; comment] Holbrook A, et al. **Can J Cardiol** 1997 Jul; 13(7):689-90. Comment on: Can J Cardiol 1997 Jan;13(1):31-2. Comment on: Can J Cardiol 1997 Jan;13(1):33-45.

Treatment of metastatic breast cancer--economic and ethical considerations. Richter G. **Cancer Invest** 1997;15(4):335-41 (33 ref.)

Health care economics and bone marrow transplantation. Westerman I, et al. **Cancer Treat Res** 1997;77:377-99 (56 ref.)

The risk and cost-effective individual patient management: the challenge of a new generation of clinical trials. Maseri A, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):751-8 (30 ref.)

Evoked potentials in pediatrics: economic audit. Chiozza ML, et al. **Childs Nerv Syst** 1997 Mar;13(3):166-70

The cost of smoking in Canada, 1991. Kaiserman MJ. **Chronic Dis Can** 1997;18(1):13-9

Cost comparison of radiofrequency modification and ablation of the atrioventricular junction in patients with chronic atrial fibrillation. Knight BP, et al. **Circulation** 1997 Sep 2;96(5):1532-6

Contemporary issues in cost-effective drug therapy. McWhinney BD, et al. **Cleve Clin J Med** 1996 Sep; 63(5):261-3

Impact of CK-MB testing policies on hospital length of stay and laboratory costs for patients with myocardial infarction or chest pain [see comments] Wu AH, et al. **Clin Chem** 1997 Feb;43(2):326-32. Comment in: Clin Chem 1997 Feb;43(2):249-50.

The cost of lung transplantation and the quality of life post-transplant. Gross CR, et al. **Clin Chest Med** 1997 Jun; 18(2):391-403 (58 ref.)

Economic evaluation of 2 treatments for pediatric femoral shaft fractures. Coyte PC, et al. **Clin Orthop** 1997 Mar; (336):205-15

Economic outcomes and costs in the treatment of schizophrenia. Knapp M, et al. **Clin Ther** 1997 Jan-Feb; 19(1):128-38; discussion 126-7 (32 ref.)

The economics of benign prostatic hyperplasia treatment: a literature review. Kortt MA, et al. **Clin Ther** 1996 Nov-Dec;18(6):1227-41 (32 ref.)

Economic analysis of Neoral in de novo renal transplant patients in Canada. Kingma I, et al. **Clin Transplant** 1997 Feb;11(1):42-8

Elderly, poor at risk for costly dental illnesses [news] **CMAJ** 1997 Jul 15;157(2):127

Another look at those OECD numbers [letter] Frankford R. **CMAJ** 1997 Jul 1;157(1):14

Primary care reform: is it time for population-based funding? [editorial] Mowat DL. **CMAJ** 1997 Jul 1;157(1):43-4

Furious about the forum [letter; comment] Smith D. **CMAJ** 1997 Jul 15;157(2):139. Comment on: Can Med Assoc J 1997 Apr 1;156(7):999-1000.

Can organised dental care for children be both good and cheap? Riordan PJ. **Community Dent Oral Epidemiol** 1997 Feb;25(1):119-25 (49 ref.)

Free market system should be left to work out solutions to health care [editorial] Johnson FJ. **Conn Med** 1997 Feb; 61(2):115

The costs of non-insulin-dependent diabetes mellitus [editorial] Alberti KG. **Diabet Med** 1997 Jan;14(1):7-9

Chronic constipation--is the work-up worth the cost? Rantis PC Jr, et al. **Dis Colon Rectum** 1997 Mar;40(3):280-6

The home as a framework for health care. Mann KJ. **Disabil Rehabil** 1997 Apr;19(4):128-9

Treatment costs in Hodgkin's disease: a cost-utility analysis. Norum J, et al. **Eur J Cancer** 1996 Aug;32A(9):1510-7

The costs of managing lower limb-threatening ischaemia. Singh S, et al. **Eur J Vasc Endovasc Surg** 1996 Oct; 12(3):359-62

Comparison of cost affecting parameters and costs of the "closed" and "open" in situ bypass technique. van Dijk LC, et al. **Eur J Vasc Endovasc Surg** 1997 May;13(5):460-3

Technical advances, financial problems and ethics [editorial] Aebi M, et al. **Eur Spine J** 1997;6(4):221

Preprogrammed, unmonitored ovarian stimulation reduces expense without compromising the outcome of assisted reproduction. Hurst BS, et al. **Fertil Steril** 1997 Aug; 68(2):282-6

The risks and costs of upper gastrointestinal disease attributable to NSAIDs. Smalley WE, et al. **Gastroenterol Clin North Am** 1996 Jun;25(2):373-96 (99 ref.)

Prostaglandins in liver transplantation: a $50,000 bonus [letter; comment] Henley KS, et al. **Gastroenterology** 1997 Feb;112(2):670-1. Comment on: Gastroenterology 1996 Sep;111(3):710-5. Comment on: Gastroenterology 1996 Sep;111(3):819-20.

Choice of long-term strategy for the management of patients with severe esophagitis: a cost-utility analysis. Heudebert GR, et al. **Gastroenterology** 1997 Apr;112(4):1078-86

Primary prophylaxis of variceal bleeding in cirrhosis: a cost-effectiveness analysis. Teran JC, et al. **Gastroenterology** 1997 Feb;112(2):473-82

Outpatient geriatric evaluation and management: is there an investment effect? Toseland RW, et al. **Gerontologist** 1997 Jun;37(3):324-32

Impact of sumatriptan on clinic utilization and costs of care in migraineurs. Litaker DG, et al. **Headache** 1996 Oct; 36(9):538-41

School injuries in the west of Scotland: estimate of incidence and health service costs. Stark C, et al. **Health Bull (Edinb)** 1997 Jan;55(1):44-8

Superbugs: should antimicrobial resistance be included as a cost in economic evaluation? Coast J, et al. **Health Econ** 1996 May-Jun;5(3):217-26 (29 ref.)

Economic value of caregiver effort in maintaining long-term ventilator-assisted individuals at home. Sevick MA, et al. **Heart Lung** 1997 Mar-Apr;26(2):148-57

Therapy of hepatitis C: cost-effectiveness analysis. Koff RS. **Hepatology** 1997 Sep;26(3 Suppl 1):152S-155S (21 ref.)

The physician's role in controlling health care costs. Prashker M. **Hosp Pract (Off Ed)** 1996 Dec 15;31(12):109-10, 117, 121

Financial impact in the Italian Health Service of laparoscopic

versus laparotomic surgery for the treatment of ovarian cysts [see comments] Bulletti C, et al. **Hum Reprod** 1996 Feb;11(2):287–90. Comment in: Hum Reprod 1996 Sep;11(9):2069–70.

Racial differences in the impact of smoking–attributable disease on health care costs in Indiana. Emont S. **Indiana Med** 1996 Mar–Apr;89(2):161–4

The Great Ormond Street protocol for ward decannulation of children with tracheostomy: increasing safety and decreasing cost. Waddell A, et al. **Int J Pediatr Otorhinolaryngol** 1997 Mar 6;39(2):111–8

Economic analyses [letter; comment] Jones GW, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 1;38(4):907–8. Comment on: Int J Radiat Oncol Biol Phys 1996 Jul 1;35(4):827–41. Comment on: Int J Radiat Oncol Biol Phys 1996 Jul 1;35(4):847–8.

The cost of health care for HIV–positive patients. Brettle RP, et al. **Int J STD AIDS** 1997 Jan;8(1):50–3

An economic exploration of oral and intravenous ganciclovir in the induction and maintenance treatment of AIDS–related cytomegalovirus retinitis. Davies L, et al. **Int J STD AIDS** 1996 Oct;7(6):415–21

Assessing the impact of health technology assessment. Jacob R, et al. **Int J Technol Assess Health Care** 1997 Winter; 13(1):68–80

Costing methods in the Canadian literature on the economic evaluation of health care. A survey and assessment. Jacobs P, et al. **Int J Technol Assess Health Care** 1996 Fall; 12(4):721–34 (59 ref.)

The economic impact of technical change in the local treatment of breast cancer. Kurdas C. **Int J Technol Assess Health Care** 1997 Winter;13(1):11–20

Can resource use be extracted from randomized controlled trials to calculate costs? A review of smoking cessation interventions in general practice. Rigby K, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):714–20

Towards quality and cost–effective health care. Shamian J. **Int Nurs Rev** 1997 May–Jun;44(3):79–84, 90 (69 ref.)

A cost analysis of a treatment policy of a deliberate perioperative increase in oxygen delivery in high risk surgical patients. Guest JF, et al. **Intensive Care Med** 1997 Jan;23(1):85–90

Lifetime costs of HIV/AIDS medical care [letter; comment] Pinkerton SD, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Apr 1;14(4):380–2. Comment on: J Acquir Immune Defic Syndr Hum Retrovirol 1996 Aug 1;12(4):371–8. Comment on: J Acquir Immune Defic Syndr Hum Retrovirol 1996 Aug 1;12(4):413–20.

Do we understand the true cost of hip fractures? [editorial; comment] Cooney LM Jr. **J Am Geriatr Soc** 1997 Mar; 45(3):382–3 (7 ref.). Comment on: J Am Geriatr Soc 1997 Mar;45(3):281–7.

Demonstrating the effects of an IAIMS on health care quality and cost. Tierney WM, et al. **J Am Med Inform Assoc** 1997 Mar–Apr;4(2 Suppl):S41–6

Twin– versus single–bag disconnect systems: infection rates and cost of continuous ambulatory peritoneal dialysis. Harris DC, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2392–8

The 1996 Everett Idris Evans Memorial Lecture. The cost of burns and the relevance of prevention. Keswani MH. **J Burn Care Rehabil** 1996 Nov–Dec;17(6 Pt 1):485–90

Estimating the economic cost offsets of using Dermagraft–TC as an alternative to cadaver allograft in the treatment of graftable burns. Parente ST. **J Burn Care Rehabil** 1997 Jan–Feb;18(1 Pt 2):S18–24

Reducing costs and improving processes for the interventional cardiology patient. Sullivan J, et al. **J Cardiovasc Nurs** 1997 Jan;11(2):22–36

Hospitalization and expenditures for the treatment of general medical conditions among the U.S. diabetic population in 1991. Ray NF, et al. **J Clin Endocrinol Metab** 1996 Oct; 81(10):3671–9

Cost–benefit analyses in the health–care literature: don't judge a study by its label. Zarnke KB, et al. **J Clin Epidemiol** 1997 Jul;50(7):813–22 (127 ref.)

Health–economic implications of the onset of action of antimanic agents. Keck PE Jr, et al. **J Clin Psychiatry** 1996; 57 Suppl 13:13–8; discussion 19–22 (53 ref.)

Does a shorter length of hospital stay affect the outcome and costs of hysterectomy in southern England? Clarke A, et al. **J Epidemiol Community Health** 1996 Oct; 50(5):545–50

Cochrane Lecture. All cost effective treatments should be free ... or, how Archie Cochrane changed my life! Williams A. **J Epidemiol Community Health** 1997 Apr;51(2):116–20

Office management of suspected UTI [published erratum appears in J Fam Pract 1997 Jun;44(6):526] Buds MS, et al. **J Fam Pract** 1997 Apr;44(4):342–3

Cost–utility analysis for UTIs [letter; comment] Schaefer SE. **J Fam Pract** 1997 Apr;44(4):329. Comment on: J Fam Pract 1997 Jan;44(1):49–60.

Estimating tobacco–related health–care and mortality costs in Florida. Lynch TA, et al. **J Fla Med Assoc** 1996 Feb; 83(2):128–33

Correlates of controlled hypertension in indigent, inner–city hypertensive patients. Ahluwalia JS, et al. **J Gen Intern Med** 1997 Jan;12(1):7–14

Measuring the economics of health. Frank RG. **J Health Polit Policy Law** 1996 Fall;21(3):617–24

An economic analysis of norfloxacin prophylaxis against spontaneous bacterial peritonitis. Younossi ZM, et al. **J Hepatol** 1997 Aug;27(2):295–8

Counting the cost: hospital versus home central venous catheter survival. Melville CA, et al. **J Hosp Infect** 1997 Mar;35(3):197–205

Economics and the treatment of hypertension. Swales JD. **J Hypertens** 1995 Dec;13(12 Pt 1):1357–61 (33 ref.)

Medicare and medicaid reductions [letter] Morfesis FA. **J Ky Med Assoc** 1996 Feb;94(2):72

Coverage of public reimbursement scheme for traffic accident victims in Thailand. Suriyawongpaisal P, et al. **J Med Assoc Thai** 1997 Jun;80(6):391–5

Morality, consumerism and the internal market in health care [see comments] Sorell T. **J Med Ethics** 1997 Apr;23(2):71–6 . Comment in: J Med Ethics 1997 Apr;23(2):67–8.

Physicians not the bad guys in healthcare picture–the record of medical science is good and needs to be told. Masterson CW. **J Miss State Med Assoc** 1996 Nov;37(11):832–3

A cost–effectiveness analysis of anterior temporal lobectomy for intractable temporal lobe epilepsy. King JT Jr, et al. **J Neurosurg** 1997 Jul;87(1):20–8

Mortality rates, hospital length of stay, and the cost of treating subarachnoid hemorrhage in older patients: institutional and geographical differences. Taylor CL, et al. **J Neurosurg** 1997 Apr;86(4):583–8

Futile care: confronting the high costs of dying [see comments] Coppa S. **J Nurs Adm** 1996 Dec;26(12):18–23 (30 ref.). Comment in: J Nurs Adm 1997 Jun;27(6):55.

Managed care teamwork: perinatal bundling [editorial] Knuppel RA. **J Perinatol** 1996 Mar–Apr;16(2 Pt 1):87–8

Comparison of access and costs of Medicaid dental services in a hospital clinic and community practices. Marcus M, et al. **J Public Health Dent** 1996 Fall;56(6):341–6

The total cost of hip–joint replacement; a model for purchasers. Pynsent PB, et al. **J Public Health Med** 1996 Jun;18(2):157–68

Tobacco: the Third World War [letter; comment] [see comments] Edmonstone M. **J R Coll Physicians Lond** 1996 Nov–Dec;30(6):588–9. Comment on: J R Coll Physicians Lond 1996 Jul–Aug;30(4):360–5. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):112.

Direct and indirect medical costs incurred by Canadian patients with rheumatoid arthritis: a 12 year study. Clarke AE, et al. **J Rheumatol** 1997 Jun;24(6):1051–60

Magnetic resonance imaging of the sacroiliac joints: worth the cost? [editorial] Fenton P. **J Rheumatol** 1996 Dec; 23(12):2020–1

Direct medical costs unique to people with arthritis. Gabriel SE, et al. **J Rheumatol** 1997 Apr;24(4):719–25

The costs of rheumatoid arthritis: absolute, incremental, and marginal estimates. Yelin E. **J Rheumatol Suppl** 1996 Mar; 44:47–51 (12 ref.)

Medical costs and economic production losses due to injuries in the Netherlands. van Beeck EF, et al. **J Trauma** 1997 Jun;42(6):1116–23

Comparative cost analysis of collagen injection and fascia lata sling cystourethropexy for the treatment of type III incontinence in women [ssee comments] Berman CJ, et al. **J Urol** 1997 Jan;157(1):122–4. Comment in: J Urol 1997 Jan;157(1):132–3.

Thrombolysis versus surgical thrombectomy for the treatment of dialysis graft thrombosis: pilot study comparing costs. Vesely TM, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):507–12

Sony, Porsche, and vascular surgery in the 21st century. Goldstone J. **J Vasc Surg** 1997 Feb;25(2):201–10

Lifetime benefits and costs of intensive therapy as practiced in the diabetes control and complications trial. The Diabetes Control and Complications Trial Research Group [see comments] [published erratum appears in JAMA 1997 Jul 2;278(1):25] **JAMA** 1996 Nov 6;276(17):1409–15. Comment in: JAMA 1997 Feb 5;277(5):374–5. Comment in: ACP J Club 1997 Mar–Apr;126(2):53.

Depressive symptoms and the cost of health services in HMO patients aged 65 years and older. A 4–year prospective study. Unützer J, et al. **JAMA** 1997 May 28; 277(20):1618–23

Cost care by task/define nursing by knowledge [see comments] Vezeau TM. **MCN Am J Matern Child Nurs** 1996 Sep–Oct;21(5):253–4 . Comment in: MCN Am J Matern Child Nurs 1997 Mar–Apr;22(2);104.

Methods controversies and agreement. Assessing quality and cost. **Med Care** 1996 Dec;34(12 Suppl):DS69–74

The substitutability of adult foster care for nursing home care in Oregon. Nyman JA, et al. **Med Care** 1997 Aug; 35(8):801–13

International financing for health and the role of the World Bank. Fitzgerald B. **Med Educ** 1995;29 Suppl 1:63–4

Trials of providing costing information to general practitioners: a systematic review. Beilby JJ, et al. **Med J Aust** 1997 Jul 21;167(2):89–92 (34 ref.)

Effect of integrated research programs on health care systems and costs. Brown A, et al. **Mil Med** 1996 Nov;161(11):691–5

Costs and consequences of ESRD in NC [letter; comment] Norman M, et al. **N C Med J** 1997 May–Jun;58(3):165. Comment on: N C Med J 1996 Nov–Dec;57(6):359–62.

Medical care costs and quality of life after randomization to coronary angioplasty or coronary bypass surgery. Bypass Angioplasty Revascularization Investigation (BARI) Investigators [see comments] Hlatky MA, et al. **N Engl J Med** 1997 Jan 9;336(2):92–9. Comment in: N Engl J Med 1997 Jun 19;336(25):1840–1. Comment in: ACP J Club 1997 Jul–Aug;127(1):25.

Quality and the medical marketplace [letter; comment] Lewis CE. **N Engl J Med** 1997 Mar 13;336(11):807; discussion 808–9. Comment on: N Engl J Med 1996 Sep 19;335(12):883–5.

Alternative techniques of hysterectomy [letter; comment] Nisolle M, et al. **N Engl J Med** 1997 Jan 23;336(4):291–2; discussion 293. Comment on: N Engl J Med 1996 Aug 15;335(7):476–82. Comment on: N Engl J Med 1996 Aug 15;335(7):483–9.

Banking for health [editorial] Slobodien HD. **N J Med** 1996 Feb;93(2):81–2

The economic impact of ALS. Klein LM, et al. **Neurology** 1996 Oct;47(4 Suppl 2):S126–9

The economics of health promotion [editorial] Anderson CA. **Nurs Outlook** 1997 May–Jun;45(3):105–6

Spending more through "cost control": our obsessive quest to gut the hospital. Reinhardt UE. **Nurs Outlook** 1997 Jul–Aug;45(4):156–60

Strategies for expanding clinical staff in an era of cost containment. McCoy BL. **Nutrition** 1997 Apr;13(4):392–3

The potential tragedy of the clinical research "commons". Meyer GS. **Nutrition** 1996 Nov–Dec;12(11–12):830–1

Cost–minimization analysis of capsulotomy after ECCE and IOL implantation. Lertsumitkul S, et al. **Ophthalmic Epidemiol** 1996 Jun;3(2):77–83

Professional practice in an era of cost constraints. Trevino R, et al. **Optom Vis Sci** 1996 May;73(5):341–3

Managed care options. Sledge CB. **Orthopedics** 1996 Sep; 19(9):775

Prevention of osteoporosis: cost–effectiveness of different pharmaceutical treatments. Ankjaer–Jensen A, et al. **Osteoporos Int** 1996;6(4):265–75 (43 ref.)

Pennsylvania health on the net? Aaron DJ, et al. **Pa Med** 1996 Sep;99(9):20–2

Back pain in primary care: predictors of high health–care costs. Engel CC, et al. **Pain** 1996 May–Jun;65(2–3):197–204

Lifetime cost of care for children with human immunodeficiency virus infection. Havens PL, et al. **Pediatr Infect Dis J** 1997 Jun;16(6):607–10

Health care utilization and cost among children with asthma who were enrolled in a health maintenance organization. Lozano P, et al. **Pediatrics** 1997 Jun;99(6):757–64

Pharmacoeconomics of aztreonam–clindamycin versus gentamicin–clindamycin in the treatment of penetrating abdominal injury. Fabian TC, et al. **Pharmacotherapy** 1996 Sep–Oct;16(5):951–7

A pharmacoeconomic analysis of neuromuscular blocking agents in the operating room. Loughlin KA, et al. **Pharmacotherapy** 1996 Sep–Oct;16(5):942–50

Health care trends and holding the line on costs. Schori TR. **Psychol Rep** 1996 Aug;79(1):27–34

Medical care without radiology: been there, done that. Heilman RS. **Radiographics** 1997 Jan–Feb;17(1):62

Health care financing outlook. Thomas SJ. **Reg Anesth** 1996 Sep–Oct;21(5):474–6

A cost–effective approach to the diagnosis and treatment of fibromyalgia. McCain GA. **Rheum Dis Clin North Am** 1996 May;22(2):323–49 (80 ref.)

Cost effectiveness of medical versus surgical treatment in patients with severe or refractory gastroesophageal reflux disease in the Netherlands. Van Den Boom G, et al. **Scand J Gastroenterol** 1996 Jan;31(1):1–9

Starting insulin therapy in elderly non–insulin–dependent diabetic patients at a health care centre. Methodological and economic aspects. Tovi J, et al. **Scand J Prim Health Care** 1997 Jun;15(2):87–91

Cost–effectiveness of fracture prevention in established osteoporosis. Jönsson B, et al. **Scand J Rheumatol Suppl** 1996;103:30–8; discussion 39–40

Prevention of osteoporosis—a cost–effectiveness. Analysis regarding fractures. Norlund A. **Scand J Rheumatol Suppl** 1996;103:42–5; discussion 46

Socioeconomic evaluation of rheumatoid arthritis and osteoarthritis: a literature review. Rothfuss J, et al. **Semin Arthritis Rheum** 1997 Apr;26(5):771–9 (79 ref.)

Economic value of gemcitabine in non–small cell lung cancer. Copley–Merriman C, et al. **Semin Oncol** 1996 Oct;23(5 Suppl 10):90–8 (15 ref.)

An estimate of the cost effectiveness of gemcitabine in stage IV non–small cell lung cancer. Evans WK. **Semin Oncol** 1996 Oct;23(5 Suppl 10):82–9

Acute abdomen. How to balance costs and quality care. Wilkinson AH Jr. **Semin Pediatr Surg** 1997 May;6(2):88–91

Mental health care costs: paucity of measurement. McCrone P, et al. **Soc Psychiatry Psychiatr Epidemiol** 1996 Mar; 31(2):70–7 (62 ref.)

Urban violence: health consequences and costs. Oloruntimehin O. **Soc Sci Med** 1996 Sep;43(5):887–8

Costs and benefits of improving tuberculosis control: the case of Thailand. Sawert H, et al. **Soc Sci Med** 1997 Jun; 44(12):1805–16

Age, adjustment, and costs: a study of chronic illnesses. Watt S, et al. **Soc Sci Med** 1997 May;44(10):1483–90

Pediatric AIDS at Mount Sinai Medical Center 1988–89: a study of costs and social severity. Muller C, et al. **Soc Work Health Care** 1996;22(4):1–20

Assessing the economic impact of a rapid on–site malaria diagnostic test. Kaewsonthi S, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):210–5

Threaded fusion cages for lumbar interbody fusions. An

economic comparison with 360 degrees fusions. Ray CD. **Spine** 1997 Mar 15;22(6):681–5

Spine update [editorial; comment] Weinstein MC. **Spine** 1996 Mar 1;21(5):651–2. Comment on: Spine 1996 Mar 1;21(5):646–50.

Cost of stroke in The Netherlands from a societal perspective. Evers SM, et al. **Stroke** 1997 Jul;28(7):1375–81

What role do neurologists play in determining the costs and outcomes of stroke patients? [letter; comment] Kaste M. **Stroke** 1997 May;28(5):1086. Comment on: Stroke 1996 Nov;27(11):1935–6. Comment on: Stroke 1996 Nov;27(11):1937–43.

Lifetime cost of stroke in the United States. Taylor TN, et al. **Stroke** 1996 Sep;27(9):1459–66 (55 ref.)

Total costs of laparoscopic and lichtenstein inguinal hernia repairs: a randomized prospective study. Heikkinen T, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):1–5

The Canadian Health Care System. Hoffman HJ. **Surg Neurol** 1997 Jul;48(1):92

Cookbook medicine. BeSaw L. **Tex Med** 1997 Mar;93(3):32–9

Effect of a German Poison Control Center on health care cost reductions in harmless exposure cases. Bindi L, et al. **Vet Hum Toxicol** 1997 Feb;39(1):48–50

The economics of immune tolerance and treatment of hemophiliacs with inhibitors. Kessler CM, et al. **Vox Sang** 1996;70 Suppl 1:74–6

Ontario's health care: a pox on doctors and patients. Arnett JC Jr. **W V Med J** 1997 May–Jun;93(3):116–7

Caution: the meter is running informing patients about health care costs. Wilkes MS, et al. **West J Med** 1996 Jul–Aug; 165(1–2):74–9

Economic costs and trade impacts of microbial foodborne illness. Buzby JC, et al. **World Health Stat Q** 1997; 50(1–2):57–66

[Ethical aspects of cost considerations in medical decision making (published erratum appears in Ned Tijdschr Geneeskd 1996 Dec 7;140(49):2484) (see comments)] Timmermans DR, et al. **Ned Tijdschr Geneeskd** 1996 Oct 12;140(41):2051–3. Comment in: Ned Tijdschr Geneeskd 1996 Dec 7;140(49):2479–80. **(Dut)**

[Financial limits to care; a survey among physicians] Wouters MW, et al. **Ned Tijdschr Geneeskd** 1997 Jan 25; 141(4):206–10 (Eng. Abstr.) **(Dut)**

[Economics and health policy: the example of hepatitis C viruses (editorial)] Pol S, et al. **Gastroenterol Clin Biol** 1996; 20(12):1049–52 **(Fre)**

[Part of health costs related to malaria in a Cameroon enterprise] Chambon R, et al. **Med Trop (Mars)** 1997; 57(2):169–73 (Eng. Abstr.) **(Fre)**

[Diabetes, dialysis, health costs (editorial)] Laville M. **Nephrologie** 1996;17(6):319–20 (13 ref.) **(Fre)**

[Comments on methods and costs of disease management. Necessary research, but difficult (see comments)] Lebrun T. **Rev Mal Respir** 1997 Apr;14(2):69–71. Comment in: Rev Mal Respir 1996 Oct;13(5):507–12. **(Fre)**

[Ethics and economic imperatives in the distribution of care] Rorive G. **Rev Med Liege** 1997 Jun;52(6):412–6 **(Fre)**

[The financial costs of health care: a follow-up survey of women having a high-risk delivery] Sondo B, et al. **Sante** 1997 Jan–Feb;7(1):33–7 (Eng. Abstr.) **(Fre)**

[Evaluation of the costs of mammographic screening program in the city of Florence] Spagnolo G, et al. **Epidemiol Prev** 1995 Dec;19(65):330–7 (Eng. Abstr.) **(Ita)**

[Cost analysis of a mammographic screening program] Vanara F, et al. **Epidemiol Prev** 1995 Dec;19(65):318–29 (Eng. Abstr.) **(Ita)**

[The diagnostically related system of groups as the instrument of the estimated cost of inpatient care under the the system of medical insurance] Boyadzhyan VA, et al. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):41–4 (Eng. Abstr.) **(Rus)**

[Various aspects of price formation in public health] Karaseva TV. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):20–4 (Eng. Abstr.) **(Rus)**

[Cost-effectiveness analysis of the treatment with enalapril of chronic heart failure in Spain] Antoñanzas Villar F, et al. **Gac Sanit** 1996 May–Jun;10(54):135–42 (Eng. Abstr.) **(Spa)**

[Do doctors know the cost of the treatments they prescribe, or is it a matter of luck? (reply) (letter; comment)] Alonso Herreros JM. **Rev Clin Esp** 1997 Feb;197(2):135–6. Comment on: Rev Clin Esp 1996 Aug;196(8):523–8. **(Spa)**

LEGISLATION & JURISPRUDENCE

Controlling health care spending: unintended consequences of a fragmented approach. Nissenson AR. **Adv Ren Replace Ther** 1996 Jul;3(3):191–9

Addressing '93 liability reforms. Observers beginning to see positive effects. Bouffard K. **Mich Med** 1997 May; 96(5):42–4

Reforms should reduce health care costs. Advocates assert 1993 tort reform legislation is not to be second-guessed [news] Swanson JG. **Mich Med** 1997 May;96(5):45–6

[Medicine in the conflict between rights and economics] Weissauer W. **Chirurg** 1997 Jun;68(6):Suppl 149–54 **(Ger)**

[Misuse of inpatient care—background, indicators and evaluation parameters] Buck RA. **Gesundheitswesen** 1997 Apr;59(4):226–30 (Eng. Abstr.) **(Ger)**

[Criteria for cost saving in public health] Gruhl M. **Gesundheitswesen** 1996 Aug–Sep;58(8–9):485–9 **(Ger)**

STANDARDS

Redefining rate regulation in a competitive environment [see comments] Wallack SS, et al. **J Health Polit Policy Law** 1996 Fall;21(3):489–510. Comment in: J Health Polit Policy Law 1996 Fall;21(3):511–3.

Economics of health management in the Michigan, USA equine industry. Lloyd JW, et al. **Prev Vet Med** 1997 Apr; 30(1):1–8

STATISTICS & NUMERICAL DATA

Analysing the cost of health. Dewever A. **Acta Gastroenterol Belg** 1997 Apr–Jun;60(2):168–71

Economic reforms and the acute inpatient care of patients with schizophrenia: the Chinese experience. Phillips MR, et al. **Am J Psychiatry** 1997 Sep;154(9):1228–34

A prospective, longitudinal, multicenter study of service utilization and costs in fibromyalgia [see comments] Wolfe F, et al. **Arthritis Rheum** 1997 Sep;40(9):1560–70. Comment in: Arthritis Rheum 1997 Sep;40(9):1553–5.

Cost effectiveness of day and inpatient psychiatric treatment: results of a randomised controlled trial. Creed F, et al. **BMJ** 1997 May 10;314(7091):1381–5

Counting the cost of social disadvantage in primary care: retrospective analysis of patient data [see comments] Worrall A, et al. **BMJ** 1997 Jan 4;314(7073):38–42. Comment in: BMJ 1997 Apr 26;314(7089):1275. Comment in: BMJ 1997 Apr 26;314(7089):1276.

Economic analysis of respiratory rehabilitation. Goldstein RS, et al. **Chest** 1997 Aug;112(2):370–9

Statistical methods for cost-effectiveness analyses [published erratum appears in Control Clin Trials 1997 Apr;18(2):185] Siegel C, et al. **Control Clin Trials** 1996 Oct;17(5):387–406

Diabetic ketoacidosis charges relative to medical charges of adult patients with type I diabetes. Javor KA, et al. **Diabetes Care** 1997 Mar;20(3):349–54

Community-acquired pneumonia: the annual cost to the National Health Service in the UK. Guest JF, et al. **Eur Respir J** 1997 Jul;10(7):1530–4

Chronic care costs in managed care. Fishman P, et al. **Health Aff (Millwood)** 1997 May–Jun;16(3):239–47

The adjustment of cost measurement to account for learning. Langkilde LK, et al. **Health Econ** 1997 Jan–Feb;6(1):83–5

Cost-effectiveness of antenatal anti-D prophylaxis. Vick S, et al. **Health Econ** 1996 Jul–Aug;5(4):319–28

Economic costs of neoplasms, arteriosclerosis, and diabetes in the United States. Thom TJ. **In Vivo** 1996 Mar–Apr; 10(2):255–9

Cost of illness due to dementia in Sweden. Wimo A, et al. **Int J Geriatr Psychiatry** 1997 Aug;12(8):857–61

Cost minimization analysis of various treatment options for surgical stage I endometrial carcinoma. Konski AA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):367–73 (33 ref.)

A cost-effectiveness and cost-utility analysis of radiosurgery vs. resection for single-brain metastases. Mehta M, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):445–54

Economic analysis alongside clinical trials. Bias in the assessment of economic outcomes. Ellwein LB, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):691–7

Results of the economic evaluation of the first study. A multinational prospective economic evaluation. FIRST Investigators. Flolan International Randomized Survival Trial. Schulman KA, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):698–713

The economic cost of hip fractures in community-dwelling older adults: a prospective study [see comments] Brainsky A, et al. **J Am Geriatr Soc** 1997 Mar;45(3):281–7. Comment in: J Am Geriatr Soc 1997 Mar;45(3):382–3.

The cost-effectiveness of Indian Health Service Optometry. Jaworski C. **J Am Optom Assoc** 1996 May;67(5):263–5

Immediate surgery versus waiting list policy in revision total hip arthroplasty. An economic evaluation. Saleh KJ, et al. **J Arthroplasty** 1997 Jan;12(1):1–10

Resource implications of palliative chemotherapy for ovarian cancer. Doyle C, et al. **J Clin Oncol** 1997 Mar;15(3):1000–7

Detection of relapse in early-stage Hodgkin's disease: role of routine follow-up studies. Torrey MJ, et al. **J Clin Oncol** 1997 Mar;15(3):1123–30

Impact of care setting on cost and quality under Medicaid. Bronstein JM, et al. **J Health Care Poor Underserved** 1997 May;8(2):202–13

The mounting medical care cost for adult AIDS patients at the Faculty of Medicine, Siriraj Hospital: consideration for management. Suwanagool S, et al. **J Med Assoc Thai** 1997 Jul;80(7):431–9

Use of the Child and Adolescent Functional Assessment Scale to predict service utilization and cost. Hodges K, et al. **J Ment Health Adm** 1997 Summer;24(3):278–90

Mortality, hospital admissions, and medical costs of end-stage renal disease in the United States and Manitoba, Canada. Hornberger JC, et al. **Med Care** 1997 Jul;35(7):686–700

The health care costs of smoking. Barendregt JJ, et al. **N Engl J Med** 1997 Oct 9;337(15):1052–7

The cost of campylobacteriosis in New Zealand in 1995. Withington SG, et al. **N Z Med J** 1997 Jun 27; 110(1046):222–4

Modelling and costing the consequences of using an ACE inhibitor to slow the progression of renal failure in type I diabetic patients. Hendry BM, et al. **QJM** 1997 Apr; 90(4):277–82

[Ethical aspects of cost considerations in medical decision making (letter; comment)] Bruinsma BG. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2479–80. Comment on: Ned Tijdschr Geneeskd 1996 Oct 12;140(41):2051–3. **(Dut)**

[Statistics—lying, but properly!] Bias R. **Wien Med Wochenschr** 1996;146(12):265–5 **(Ger)**

TRENDS

How much does radiology contribute to increasing health care costs? The situation in Greece. Kelekis DA, et al. **Acad Radiol** 1996 Apr;3 Suppl 1:S121–4

Technologic and economic considerations of three old, yet new, imaging procedures. Stern HS. **Acad Radiol** 1996 Apr; 3 Suppl 1:S147–9

Smoking attributable mortality and economic costs in Alaska 1992–94 [published erratum appears in Alaska Med 1997 Jan–Mar;39(1):28] Schumacher C. **Alaska Med** 1996 Jan–Mar;38(1):13–7

Health care—past, present, and future [editorial] [see comments] Pearl RM. **Ann Plast Surg** 1997 Feb;38(2):191–2. Comment in: Ann Plast Surg 1997 Mar;38(3):296–7.

Managed care or managed costs?[letter] Dyer AR. **Aust N Z J Psychiatry** 1996 Jun;30(3):317–8

Healthcare for the millennium: can we prevent a funding nightmare? [editorial] Jackson G. **Br J Clin Pract** 1996 Dec; 50(8):421

New challenges to the faculty in the education of psychiatrists. Kay J. **Bull Menninger Clin** 1996 Summer; 60(3):285–95

A theory of technophysio evolution, with some implications for forecasting population, health care costs, and pension costs [published erratum appears in Demography 1997 May;34(2):170] Fogel RW, et al. **Demography** 1997 Feb; 34(1):49–66 (119 ref.)

Tracking health care costs: an update. Ginsburg PB, et al. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):151–5

Tracking health care costs. Ginsburg PB, et al. **Health Aff (Millwood)** 1996 Fall;15(3):140–9

Managed care. HMOs have less fat to cut [news] **Hosp Health Netw** 1996 Dec 5;70(23):12

Medicaid ... one runaway train seems to be slowing down [news] **Hosp Health Netw** 1997 Jan 20;71(2):12

Finance ... predictions of big cost increases in health care over the next five years [news] **Hosp Health Netw** 1997 Jun 5;71(11):12

Costs of dementia and dementia care: a review. Wimo A, et al. **Int J Geriatr Psychiatry** 1997 Aug;12(8):841–56 (80 ref.)

The pricing of nursing care. Hendricks J, et al. **J Adv Nurs** 1997 Mar;25(3):454–62 (21 ref.)

Serious problems affecting, and potentially affecting, the nation's health industry [letter] Uzych L. **J Health Care Finance** 1996 Summer;22(4):v–vi

Life expectancy, life span, and the limits of medicine. Handler S. **Minn Med** 1996 Dec;79(12):26–8

History of medicine revisited: does it give a glimpse into our future? [editorial] Altemeier WA 3rd. **Pediatr Ann** 1997 Jan;26(1):6–8, 18, 25 passim

The future of clinical social work and managed cost organizations. Munson CE. **Psychiatr Serv** 1997 Apr; 48(4):479–82

SMA Lecture. Impact of a free market system on medicine in Singapore. Singapore Medical Association. Toh C. **Singapore Med J** 1997 Jan;38(1):7–10

Making economic evaluations respectable. Reinhardt UE. **Soc Sci Med** 1997 Aug;45(4):555–62

The impact of cost-effectiveness on public and private policies in health care: an international perspective. Introduction and overview. Sloan FA, et al. **Soc Sci Med** 1997 Aug;45(4):505–10

Benign prostatic hyperplasia in Sweden 1987 to 1994: changing patterns of treatment, changing patterns of costs. Blomqvist P, et al. **Urology** 1997 Aug;50(2):214–9; discussion 219–20

[Integration of electronic data processing in clinical follow-up—or adaptation of clinical follow-up to electronic data processing. Meanwhile a question of economic survival?] Gesenhues T, et al. **Geburtshilfe Frauenheilkd** 1996 Aug;56(8):M120–5 **(Ger)**

[Economic wealth in Germany] Beske F, et al. **Gesundheitswesen** 1997 Apr;59(4):289–91 **(Ger)**

[Public health service in the conflict between cost control and new responsibilities] Leidel J. **Gesundheitswesen** 1996 Nov;58(11):571–7 **(Ger)**

[Cost control in public health by rationing—what are the advantages and disadvantages?] Mielck A, et al. **Gesundheitswesen** 1996 Jan;58(1):1–9 (Eng. Abstr.) **(Ger)**

[A dilemma—public health care] Wilson G. **Gesundheitswesen** 1997 Feb;59(2):117–22 (Eng. Abstr.) **(Ger)**

[The physician in times of economic forces (letter; comment)] Fricke FU. **Med Klin** 1996 Dec 15;91(12):809–11. Comment on: Med Klin 1996 Jul 15;91(7):472–6. **(Ger)**

[Cost pressure in health care. Teleradiology (editorial)] Peters PE. **Radiologe** 1997 Apr;37(4):259 **(Ger)**

[Socioeconomic principles of medical care] Kuderna H. **Unfallchirurgie** 1996 Oct;22(5):228–33 (Eng. Abstr.) **(Ger)**

[Who should pay? Why rationing in health care is

unavoidable today (editorial)] Krämer W. **Versicherungsmedizin** 1997 Jun 1;49(3):71 **(Ger)**

HEALTH CARE DELIVERY see **DELIVERY OF HEALTH CARE**

HEALTH CARE FINANCING ADMINISTRATION (U.S.) see **UNITED STATES HEALTH CARE FINANCING ADMINISTRATION**

HEALTH CARE FRAUD see **FRAUD**

HEALTH CARE PROVIDERS see **HEALTH PERSONNEL**

HEALTH CARE RATIONING

see related
PATIENT SELECTION

Allocation of scarce resources: ethical challenges, clinical realities. Terry P, et al. **Am J Crit Care** 1996 Sep; 5(5):326–30

The effects of cytomegalovirus serology on graft and recipient survival in cadaveric renal transplantation: implications for organ allocation. Schnitzler MA, et al. **Am J Kidney Dis** 1997 Mar;29(3):428–34

Resource allocation in the National Health Service. Newdick C. **Am J Law Med** 1997;23(2–3):291–318

Resource allocation in neonatal and medical ICUs. Epidemiology and rationing at the extremes of life. Lantos JD, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):185–9

Helping physicians recognize bedside rationing [letter; comment] Freedman LR. **Ann Intern Med** 1997 Jun 1; 126(11):921; discussion 921–2. Comment on: Ann Intern Med 1997 Jan 1;126(1):74–80.

Helping physicians recognize bedside rationing [letter; comment] Galanos AN. **Ann Intern Med** 1997 Jun 1; 126(11):921; discussion 921–2. Comment on: Ann Intern Med 1997 Jan 1;126(1):74–80.

Physicians' survival predictions for patients with acute congestive heart failure. Poses RM, et al. **Arch Intern Med** 1997 May 12;157(9):1001–7

Hepatitis C and policy implementation: ethics as a dialogic process for resource allocation [editorial] Hepworth J, et al. **Aust N Z J Public Health** 1997 Feb;21(1):4–7

Resource allocation and aboriginal health. Mooney G. **Aust N Z J Public Health** 1996 Feb;20(1):9

Equitable provision of health services to aboriginal and Torres Strait Islander people of Queensland. Runciman C, et al. **Aust N Z J Public Health** 1996 Feb;20(1):15–7

Rationing health care. Access to treatment should be equal, regardless of age [letter; comment] Bowling A. **BMJ** 1997 Jun 28;314(7098):1902. Comment on: BMJ 1997 Mar 15;314(7083):820–5.

Skin lesion removal rationed in Florida [news] Charatan FB. **BMJ** 1996 Dec 14;313(7071):1506

The rationing debate. Rationing within the NHS should be explicit. The case against [see comments] Coast J. **BMJ** 1997 Apr 12;314(7087):1118–22. Comment in: BMJ 1997 Apr 12;314(7087):1114–8.

The rationing debate: Maximising the health of the whole community. The case for [see comments] Culyer AJ. **BMJ** 1997 Mar 1;314(7081):667–9. Comment in: BMJ 1997 Mar 1;314(7081):669–72. Comment in: BMJ 1997 Jun 28;314(7098):1901.

Setting priorities New Zealand–style [editorial; comment] Dixon J, et al. **BMJ** 1997 Jan 11;314(7074):86–7. Comment on: BMJ 1997 Jan 11;314(7074):131–4. Comment on: BMJ 1997 Jan 11;314(7074):135–8.

The rationing debate. Rationing within the NHS should be explicit. The case for. Doyal L. **BMJ** 1997 Apr 12; 314(7087):1114–8

Rationing health care. Certain minima must be attained [letter; comment] Dunstan J. **BMJ** 1997 Feb 15; 314(7079):515. Comment on: BMJ 1996 Dec 14;313(7071):1499.

Rationing health care. Priority setting tools should be used to draw up principles of rationing [letter; comment] Field S. **BMJ** 1997 Feb 15;314(7079):515. Comment on: BMJ 1996 Dec 14;313(7071):1499.

Rationing health care. Two tier service will develop on basis of ability to pay [letter; comment] Gordhandas AM. **BMJ** 1997 Feb 15;314(7079):514–5. Comment on: BMJ 1996 Dec 14;313(7071):1499.

Cancer treatments rationed by authority [news] Halle M. **BMJ** 1996 Sep 28;313(7060):774

The rationing debate: Maximising the health of the whole community. The case against: what the principal objective of the NHS should really be [comment] [see comments] Harris J. **BMJ** 1997 Mar 1;314(7081):669–72. Comment on: BMJ 1997 Mar 1;314(7081):667–9. Comment in: BMJ 1997 Jun 28;314(7098):1901.

The rationing debate. Central government should have a greater role in rationing decisions. The case against [comment] Harrison S. **BMJ** 1997 Mar 29;314(7085):970–3 . Comment on: BMJ 1997 Mar 29;314(7085):967–70.

Rationing breast reduction surgery [letter; comment] Horlock N, et al. **BMJ** 1997 Apr 5;314(7086):1045–6. Comment on: BMJ 1996 Dec 7;313(7070):1479.

Rationing health care. Rationing may be good [letter; comment] Jenkinson S. **BMJ** 1997 Feb 15;314(7079):515. Comment on: BMJ 1996 Dec 14;313(7071):1499.

The rationing debate. Defining a package in healthcare services the NHS is responsible for. The case against [see comments] Klein R. **BMJ** 1997 Feb 15;314(7079):506–9. Comment in: BMJ 1997 May 17;314(7092):1484.

The rationing debate. Central government should have a greater role in rationing decisions. The case for [see comments] Lenaghan J. **BMJ** 1997 Mar 29; 314(7085):967–70. Comment in: BMJ 1997 Mar 29;314(7085):970–3.

Rationing health care. Allocating resources only to treating present dangers would ruin preventive health care and jeopardise future lives [letter; comment] Marshall T. **BMJ** 1997 Jun 28;314(7098):1901. Comment on: BMJ 1997 Mar 1;314(7081):669–72.

Rationing health care [editorial] [see comments] Maynard A. **BMJ** 1996 Dec 14;313(7071):1499. Comment in: BMJ 1997 Feb 15;314(7079):514. Comment in: BMJ 1997 Feb 15;314(7079):514–5. Comment in: BMJ 1997 Feb 15;314(7079):515. Comment in: BMJ 1997 Mar 29;314(7085):980.

The rationing debate. Defining a package of healthcare services the NHS is responsible for. The case for [see comments] New B. **BMJ** 1997 Feb 15;314(7079):503–5. Comment in: BMJ 1997 May 17;314(7092):1484.

Rationing health care. Several other markers of fairness exist, besides age [letter; comment] Rivlin MM. **BMJ** 1997 Feb 15;314(7079):514. Comment on: BMJ 1996 Dec 14;313(7071):1499.

The rationing debate. Rationing health care by age [see comments] Williams . A, et al. **BMJ** 1997 Mar 15; 314(7083):820–5. Comment in: BMJ 1997 Jun 28;314(7098):1902.

Rationing health care. Can a "fair innings" ever be fair? [letter; comment] Williams M. **BMJ** 1997 Feb 15;314(7079):514. Comment on: BMJ 1996 Dec 14;313(7071):1499.

An index of implant treatment need (IITN) [editorial] Beckett H, et al. **Br Dent J** 1997 Mar 8;182(5):160–1

Rationing: a transatlantic perspective. Purdy S. **Br J Gen Pract** 1996 Sep;46(410):543–5

Resource allocation and ethics. Can clinicians find a middle ground? [editorial] Marchand R. **Can Fam Physician** 1996 Feb;42:198–202, 206–11 **(Eng, Fre)**

Options in theory and in practice [letter; comment] Gregory BW. **Can Med Assoc J** 1996 Dec 15;155(12):1668. Comment on: Can Med Assoc J 1996 Sep 15;155(6):778–9.

Study questions whether equalization of health care services a logical goal. OReilly M. **Can Med Assoc J** 1997 Feb 1;156(3):413–5

Rescuing Prometheus: a policy proposal to alleviate excess demand for liver transplantation. Ferguson ME, et al. **Clin Transplant** 1997 Feb;11(1):49–55

Bioethics for clinicians: 13. Resource allocation. McKneally MF, et al. **CMAJ** 1997 Jul 15;157(2):163–7 (31 ref.)

When to scan, when to operate [letter; comment] Workman S. **CMAJ** 1997 Jul 1;157(1):18, 20. Comment on: Can Med Assoc J 1997 Jan 1;156(1):49–51.

"1–800–DENIED". Deren MM. **Conn Med** 1996 Nov; 60(11):691

Psychosocial assessment of organ transplant candidates and the Americans with Disabilities Act. Orentlicher D. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):5S–12S (24 ref.)

Ethical dichotomies in organ transplantation. A time for bridge building. Surman OS, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):13S–19S (29 ref.)

Managed care, rationing, and quality: a tangled relationship. Friedman E. **Health Aff (Millwood)** 1997 May–Jun; 16(3):174–82

When resources are scarce: the impact of three organizational practices on clinician–managers. Lemieux–Charles L, et al. **Health Care Manage Rev** 1997 Winter;22(1):58–69

Patient flow based allocation of hospital resources. Vissers JM. **IMA J Math Appl Med Biol** 1995 Sep–Dec; 12(3–4):259–74

Report from the Medical Technology and Practice Patterns Institute (MTPPI). **Int J Technol Assess Health Care** 1996 Fall;12(4):765–6

New medical technologies: lessons from the international experience [editorial] Doyle Y. **Ir Med J** 1997 Mar; 90(2):50–1

Follow–up of abnormal results from lead screening: making evidence–based decisions [editorial; comment] [published erratum appears in J Am Board Fam Pract 1997 Jan–Feb;10(1):78] DiGuiseppi C. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):459–61. Comment on: J Am Board Fam Pract 1996 Nov–Dec;9(6):405–10.

Rational allocation of medical care: a position statement from the American Geriatrics Society. AGS Ethics Committee [see comments] **J Am Geriatr Soc** 1997 Jul;45(7):884–5. Comment in: J Am Geriatr Soc 1997 Jul;45(7):886–8.

Allocating medical resources: recommendations for a professional response [editorial; comment] Rosenfeld KE, et al. **J Am Geriatr Soc** 1997 Jul;45(7):886–8. Comment on: J Am Geriatr Soc 1997 Jul;45(7):884–5.

Could we hold people responsible for their own adverse health? Harris J. **J Contemp Health Law Policy** 1995 Fall; 12(1):147–53

Proxies for healthcare need among populations: validation of alternatives—a study in Quebec. Birch S, et al. **J Epidemiol Community Health** 1996 Oct;50(5):564–9

Oregon's health care rationing plan [letter; comment] Gates V, et al. **J Gen Intern Med** 1996 Sep;11(9):570–1. Comment on: J Gen Intern Med 1996 Feb;11(2):104–8.

Kidney transplant candidates' views of the transplant allocation system. Louis ON, et al. **J Gen Intern Med** 1997 Aug;12(8):478–84

Oregon's health care rationing plan. Committee on Bioethical Issues of the Medical Society of the State of New York [see comments] Rosner F, et al. **J Gen Intern Med** 1996 Feb;11(2):104–8. Comment in: J Gen Intern Med 1996 Sep;11(9):570–1.

Human immunodeficiency virus infection and other sexually transmitted diseases in developing countries: public health importance and priorities for resource allocation. Over M, et al. **J Infect Dis** 1996 Oct;174 Suppl 2:S162–75

Just spending in the face of concentrated need. Jindal B. **J La State Med Soc** 1996 Feb;148(2):64–75

QALYs, lotteries and veils [letter; comment] Davies J. **J Med Ethics** 1997 Apr;23(2):119. Comment on: J Med Ethics 1996 Aug;22(4):195–6.

Would Aristotle have played Russian roulette? [see comments] Harris J. **J Med Ethics** 1996 Aug;22(4):209–15 . Comment in: J Med Ethics 1996 Aug;22(4):195–6.

QALYs, lotteries and veils: the story so far [editorial; comment] [see comments] Hope T. **J Med Ethics** 1996 Aug; 22(4):195–6. Comment on: J Med Ethics 1996 Aug;22(4):204–8. Comment on: J Med Ethics 1996 Aug;22(4):209–15. Comment on: J Med Ethics 1996 Aug;22(4):216–21. Comment in: J Med Ethics 1997 Apr;23(2):119.

Autonomy: the need for limits. Jiwa M. **J Med Ethics** 1996 Dec;22(6):340–3 (18 ref.)

Double jeopardy, the equal value of lives and the veil of ignorance: a rejoinder to Harris [see comments] McKie J, et al. **J Med Ethics** 1996 Aug;22(4):204–8. Comment in: J Med Ethics 1996 Aug;22(4):195–6.

Another peep behind the veil [see comments] McKie J, et al. **J Med Ethics** 1996 Aug;22(4):216–21. Comment in: J Med Ethics 1996 Aug;22(4):195–6.

Random paired scenarios—a method for investigating attitudes to prioritisation in medicine. Ryynänen OP, et al. **J Med Ethics** 1996 Aug;22(4):238–42

"Socialized medicine," resource allocation and two–tiered health care—the Danish experience. Holm S. **J Med Philos** 1995 Dec;20(6):631–7

The Norwegian welfare state in transition: rationing and plurality of values as ethical challenges for the health care system. Norheim OF. **J Med Philos** 1995 Dec;20(6):639–55

Managed care, maniac care, rationed care, or no care: does anyone care? [editorial] Dawson G. **J Natl Med Assoc** 1997 Jul;89(7):447–51

Cardiac rehabilitation in Scotland: is current provision satisfactory? Campbell NC, et al. **J Public Health Med** 1996 Dec;18(4):478–80

Is health a matter of choice [editorial] Cornell J, et al. **J Public Health Med** 1996 Jun;18(2):127–8

Health screening, development, and equity. Braveman P, et al. **J Public Health Policy** 1996;17(1):14–27 (49 ref.)

Consultant physician of the week: a solution to the bed crisis. Worth R, et al. **J R Coll Physicians Lond** 1996 May–Jun; 30(3):211–2

Benchmarking the US physician workforce. An alternative to needs–based or demand–based planning [see comments] [published erratum appears in JAMA 1997 Mar 26;277(12):966] Goodman DC, et al. **JAMA** 1996 Dec 11; 276(22):1811–7. Comment in: JAMA 1996 Dec 11;276(22):1811–7. Comment in: JAMA 1997 Mar 26;277(12):964–5; discussion 965–6. Comment in: JAMA 1997 Mar 26;277(12):965; discussion 965–6.

The role of cost–effectiveness analysis in health and medicine. Panel on Cost–Effectiveness in Health and Medicine [see comments] Russell LB, et al. **JAMA** 1996 Oct 9; 276(14):1172–7 (51 ref.). Comment in: JAMA 1996 Oct 9;276(14):1180.

Recommendations of the Panel on Cost–effectiveness in Health and Medicine. Weinstein MC, et al. **JAMA** 1996 Oct 16;276(15):1253–8 (23 ref.)

Allocation of cadaver kidneys. The UKTSSA Users Kidney Advisory Group Audit Subcommittee [letter; comment] Briggs JD. **Lancet** 1996 Nov 2;348(9036):1246–7. Comment on: Lancet 1996 Aug 17;348(9025):453–4. Comment on: Lancet 1996 Aug 17;348(9025):454–5. Comment on: Lancet 1996 Aug 17;348(9025):456–7.

Rationing of growth hormone: who reviews the experts? [letter] Nussey SS. **Lancet** 1997 Sep 6;350(9079):743

Allocation of cadaver kidneys [letter; comment] Terasaki P, et al. **Lancet** 1996 Nov 2;348(9036):1247. Comment on: Lancet 1996 Aug 17;348(9025):456–7.

Rationing and the objectives of health care [editorial] Mooney GH. **Med J Aust** 1997 Jun 2;166(11):575

Resourcing decision model for military hospitals. Hart SE, et al. **Mil Med** 1996 Sep;161(9):552–6

Can age–based rationing of health care be morally justified? Rivlin MM. **Mt Sinai J Med** 1997 Mar;64(2):113–9

Rationing by any other name [see comments] Asch DA, et al. **N Engl J Med** 1997 Jun 5;336(23):1668–71. Comment in: N Engl J Med 1997 Jun 5;336(23):1666–7.

The cost of caring: a view of Britain's delivery of health care. Crawshaw R. **Pharos** 1996 Winter;59(1):11–5

Can we afford to be civilized? [editorial] O'Donnell M. **Pharos** 1996 Winter;59(1):36

Ethical resource allocation and the quest for normalcy: is pediatric reconstructive surgery justified? de Chalain TM. **Plast Reconstr Surg** 1997 Apr;99(4):1184–91

Using signs of decompensation as triggers for early intervention to reduce hospitalization. Frazier RS, et al. **Psychiatr Serv** 1997 May;48(5):621–3

Attitudes to cuts in expenditure and increased fees in health care. Myllykangas M, et al. **Public Health** 1997 Mar; 111(2):71–5

Trends of FDA resource allocations over the past 20 years: expected future resources and workload. Shank FR, et al. **Regul Toxicol Pharmacol** 1996 Dec;24(3):218–23

Rationing secondary and tertiary health care—a time for political clarity [editorial] von Oppell UO, et al. **S Afr Med J** 1997 Jul;87(7):871–3

Health care allocation and selective neglect in rural Peru. Larme AC. **Soc Sci Med** 1997 Jun;44(11):1711–23

Could refereed care remove judgment bias? [letter] Lenker M. **Tex Med** 1997 Apr;93(4):7–8

Normative and prescriptive criteria: the efficacy of organ transplantation allocation protocols. Koch T. **Theor Med** 1996 Mar;17(1):75–93

Matchability as an important factor for kidney allocation according to the HLA match. Wujciak T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1403–5

Some aspects of justice in the allocation of organs for transplantation [letter] Obermann K. **Transplantation** 1997 Jul 27;64(2):371

Local impact of 1995 changes in the renal transplant allocation system. Zachary AA, et al. **Transplantation** 1997 Mar 15;63(5):669–74

Who gets a heart? Rationing and rationalizing in heart transplantation. Allen MD, et al. **West J Med** 1997 May; 166(5):326–36

[Transfusion service of the county of Funen. Organizational and economical aspects of restructuring] Georgsen J, et al. **Ugeskr Laeger** 1997 Mar 17;159(12):1758–62 (Eng. Abstr.) **(Dan)**

[Identification of disadvantaged areas; a system for resource allocation to family practitioners] van der Velden J, et al. **Ned Tijdschr Geneeskd** 1997 Apr 5;141(14):693–7 (35 ref.) (Eng. Abstr.) **(Dut)**

[An indicator of needs for the regional allocation of public health resources in Quebec] Ferland P, et al. **Can J Public Health** 1996 Jul–Aug;87(4):280–5 (Eng. Abstr.) **(Fre)**

[Ethics and economic imperatives in the distribution of care] Rorive G. **Rev Med Liege** 1997 Jun;52(6):412–6 **(Fre)**

[Efficiency and equity: an impossible matrimony?] Stefanini A. **Epidemiol Prev** 1996 Oct–Dec;20(4):292–5 **(Ita)**

[Confusion of concepts in the discussion on resource allocation (letter)] Allander E. **Lakartidningen** 1996 Dec 4;93(49):4525 **(Swe)**

[The art of distributing resources according to needs. Criteria of the Stockholm model] Diderichsen F, et al. **Lakartidningen** 1996 Oct 16;93(42):3677–8, 3680, 3683 **(Swe)**

[Bad economics result in increased administration (letter)] Hammarkvist B. **Lakartidningen** 1997 Aug 27;94(35):2907–8 **(Swe)**

[The problematic role of physicians during the time of health care crisis] Kesek M. **Lakartidningen** 1997 Aug 20; 94(34):2799–801 **(Swe)**

["We are no longer able to take the medical responsibility!" (letter)] Lindgren T. **Lakartidningen** 1996 Oct 9;93(41):3550 **(Swe)**

ECONOMICS

A new approach to the control of distribution of medical imaging equipment in France. The Scientific Committee. Frija G, et al. **Acad Radiol** 1996 Apr;3 Suppl 1:S97–100

Using cost–effectiveness/cost–benefit analysis to allocate health resources: a level playing field for prevention? Phillips KA, et al. **Am J Prev Med** 1997 Jan–Feb; 13(1):18–25

Recognizing bedside rationing: clear cases and tough calls [see comments] Ubel PA, et al. **Ann Intern Med** 1997 Jan 1;126(1):74–80 (28 ref.). Comment in: Ann Intern Med 1997 Jun 1;126(11):921; discussion 921–2.

Geographical resource allocation for public mental health services in Victoria. Meadows G. **Aust N Z J Psychiatry** 1997 Feb;31(1):95–104

Rationing health care. Cost effectiveness should not be the only criterion in deciding on treatment [letter; comment] St Leger MF. **BMJ** 1997 Jun 28;314(7098):1901. Comment on: BMJ 1997 Mar 1;314(7081):667–9. Comment on: BMJ 1997 Mar 1;314(7081):669–72.

Who should decide? Qualitative analysis of panel data from public, patients, healthcare professionals, and insurers on priorities in health care. Stronks K, et al. **BMJ** 1997 Jul 12;315(7100):92–6

The economic attributes of medical care: implications for rationing choices in the United States and United Kingdom. Banks DA. **Camb Q Healthc Ethics** 1996 Fall;5(4):546–58

The status of local health care safety nets. Baxter RJ, et al. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):7–23

Economic evaluation and the shifting balance towards primary care: definitions, evidence and methodological issues. Godber E, et al. **Health Econ** 1997 May–Jun; 6(3):275–94 (45 ref.)

A social contract for 21st century health care: three–tier health care with bounty hunting [editorial] Reinhardt UE. **Health Econ** 1996 Nov–Dec;5(6):479–99 (45 ref.)

Policy ... limiting acute care for the very old at the end of their lives saves tons of money [news] **Hosp Health Netw** 1997 Jun 20;71(12):28, 30, 32

Senior bashing. Meyer H. **Hosp Health Netw** 1996 Dec 5; 70(23):28–30, 32, 34–8

Economic analyses, the medical commons, and patients' dilemmas: what is the physician's role? Wynia MK. **J Investig Med** 1997 Feb;45(2):35–43 (62 ref.)

Preferences, needs and QALYs. Cohen J. **J Med Ethics** 1996 Oct;22(5):267–72 (35 ref.)

Dollars may not buy as many QALYs as we think: a problem with defining quality–of–life adjustments [see comments] Fryback DG, et al. **Med Decis Making** 1997 Jul–Sep; 17(3):276–84. Comment in: Med Decis Making 1997 Jul–Sep;17(3):352–3.

A method to elicit utilities for interpersonal comparisons. Holmes AM. **Med Decis Making** 1997 Jan–Mar;17(1):10–20

Health state utility anchors: being clear on what "1" means [editorial;comment] O'Brien BJ. **Med Decis Making** 1997 Jul–Sep;17(3):352–3. Comment on: Med Decis Making 1997 Jul–Sep;17(3):276–84.

The importance of perspective in the measurement of quality–adjusted life years. Richardson J, et al. **Med Decis Making** 1997 Jan–Mar;17(1):33–41

Our endangered integrity—it can only get worse [editorial; comment] Kassirer JP. **N Engl J Med** 1997 Jun 5; 336(23):1666–7. Comment on: N Engl J Med 1997 Jun 5;336(23):1668–71.

Cost–effectiveness analysis and budget constraints [letter; comment] McCombs JS. **N Engl J Med** 1996 Nov 7; 335(19):1465; discussion 1466. Comment on: N Engl J Med 1996 May 2;334(18):1174–7.

Cost–effectiveness analysis and budget constraints [letter; comment] Schwaber MJ, et al. **N Engl J Med** 1996 Nov 7;335(19):1465; discussion 1466. Comment on: N Engl J Med 1996 May 2;334(18):1174–7.

Costs of health care for the elderly [letter] Shenkin HA. **N Engl J Med** 1997 Feb 27;336(9):664

Costs of health care for the elderly [letter] Sudlow M. **N Engl J Med** 1997 Feb 27;336(9):663–4; discussion 664

Managed care: III. Whose business is patient care? Bachrach LL. **Psychiatr Serv** 1996 Jun;47(6):567–8; 576

Public–sector managed care and medical necessity [editorial; comment] Sharfstein SS. **Psychiatr Serv** 1997 Apr;48(4):429 . Comment on: Psychiatr Serv 1997 Apr;48(4):485–90.

The cost consequences of changing the hospital–community balance: the mental health residential care study. Knapp M, et al. **Psychol Med** 1997 May;27(3):681–92

Quality of life and health economics: where is the link? Jönsson B. **Scand J Gastroenterol Suppl** 1996;221:33–6

The Oregon experiment: the role of cost–benefit analysis in the allocation of Medicaid funds. Blumstein JF. **Soc Sci Med** 1997 Aug;45(4):545–54

Economic reform and health sector policy: lessons from structural adjustment programs. Peabody JW. **Soc Sci Med** 1996 Sep;43(5):823–35 (58 ref.)

Household strategies to cope with the economic costs of illness. Sauerborn R, et al. **Soc Sci Med** 1996 Aug; 43(3):291–301

Alternatives to the QALY measure for economic evaluations. Gafni A. **Support Care Cancer** 1997 Mar;5(2):105–11

[Does cost control in health care impose health care rationing? (editorial)] Meine J. **Swiss Surg** 1996;2(4):141–2 **(Fre)**

[Cost control in public health by rationing—what are the advantages and disadvantages?] Mielck A, et al. **Gesundheitswesen** 1996 Jan;58(1):1–9 (Eng. Abstr.) **(Ger)**

[Limits of optimizing resource allocation by debiting the public health service] Schäfer T. **Gesundheitswesen** 1997 May;59(5):338–43 (Eng. Abstr.) **(Ger)**

[Economic aspects of oncologic surgery: what do we know, are they relevant; must—may—we regard them?] Nagel E, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:91–7 (Eng. Abstr.) **(Ger)**

[Injuries in elderly patients: maximal management versus minimal osteosynthesis depending on active life style and economic resources] Roesgen M. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:903–6 (6 ref.) (Eng. Abstr.) **(Ger)**

[In the future will economists determine our therapy? Comments during the European Cardiology Congress (see comments)] Jahrmärker H. **Med Klin** 1996 Jul 15; 91(7):472–6. Comment in: Med Klin 1996 Dec 15;91(12):809–11. **(Ger)**

[Who should pay? Why rationing in health care is unavoidable today (editorial)] Krämer W. **Versicherungsmedizin** 1997 Jun 1;49(3):71 **(Ger)**

[The limits of intensive care medicine] Kox WJ, et al. **Zentralbl Chir** 1996;121(7):515–20 (15 ref.) (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

The U.S. health delivery system: inefficient and unfair to children. Kopelman LM, et al. **Am J Law Med** 1997; 23(2–3):319–37

Medical necessity and defined coverage benefits in the Oregon Health Plan. Glassman PA, et al. **Am J Public Health** 1997 Jun;87(6):1053–8

South African court rules against rationing decision [news] Sidley P. **BMJ** 1997 Feb 8;314(7078):396

Resource allocation and physician liability. Capen K. **Can Med Assoc J** 1997 Feb 1;156(3):393–5

[Equitable fee schedule and organizational leeway of the KVen. Two important decisions of the Federal Health Office] Ratzel R. **Chirurg** 1996 Nov;67(11):suppl 271–2 **(Ger)**

ORGANIZATION & ADMINISTRATION

Carving–out mental health benefits to Medicaid beneficiaries: a shift toward managed care. Busch S. **Adm Policy Ment Health** 1997 Mar;24(4):301–21

Equity in health care: some conceptual and practical issues. Jan S, et al. **Aust N Z J Public Health** 1996 Feb;20(1):9–11

Models for horizontal equity in resource allocation in aboriginal health. McDermott R, et al. **Aust N Z J Public Health** 1996 Feb;20(1):13–5

Variations in health care expenditure in the Alice Springs Rural District in 1993–94. Warchivker I. **Aust N Z J Public Health** 1996 Feb;20(1):11–3

NHS reforms reduce length of waiting lists but create widespread unease. Gray C. **Can Med Assoc J** 1996 Nov 15;155(10):1487–8

An evaluation of Oregon's Medicaid rationing algorithms [editorial] Tengs TO. **Health Econ** 1996 May–Jun; 5(3):171–81 (16 ref.)

Why rationing was right for Oregon [interview by Jim Montague] Garland M. **Hosp Health Netw** 1997 Feb 5; 71(3):64, 66

Rationing and evidence–based medicine [editorial] Hunter DJ. **J Eval Clin Pract** 1996 Feb;2(1):5–8 (12 ref.)

Availability of organs [letter; comment] Davies J. **J Med Ethics** 1996 Feb;22(1):55. Comment on: J Med Ethics 1995 Aug;21(4):199–204.

The future of dermatology—in hospital or out? Russell–Jones R. **J R Coll Physicians Lond** 1996 Sep–Oct;30(5):413–4

Prenatal screening vouchers [letter; comment] Pitroff R. **J R Soc Med** 1996 Sep;89(9):539. Comment on: J R Soc Med 1996 Mar;89(3):130–1.

The Oregon Health Plan—lessons for the nation. Second of two parts. Bodenheimer T. **N Engl J Med** 1997 Sep 4; 337(10):720–3

The Oregon Health Plan—lessons for the nation. First of two parts. Bodenheimer T. **N Engl J Med** 1997 Aug 28; 337(9):651–5

Procurement and allocation of solid organs for transplantation [see comments] Hauptman PJ, et al. **N Engl J Med** 1997 Feb 6;336(6):422–31. Comment in: N Engl J Med 1997 Feb 6;336(6):436–8.

Allocating livers—devising a fair system [editorial; comment] Steinbrook R. **N Engl J Med** 1997 Feb 6;336(6):436–8. Comment on: N Engl J Med 1997 Feb 6;336(6):422–31.

The ethical dilemmas of the Oregon health plan. Burton L. **Nurse Pract** 1996 Feb;21(2):62, 65–6, 71–2 (20 ref.)

Criteria and issues of space and equipment allocation and utilization in a comprehensive health care environment. McVeigh F, et al. **Optom Vis Sci** 1996 May;73(5):344–9

STANDARDS

Resources allocation to OPD services at public and private dispensaries in Iringa District, Tanzania. Conestà N, et al. **Ann Ig** 1997 Mar–Apr;9(2):169–76

The real ethics of rationing. Light DW. **BMJ** 1997 Jul 12; 315(7100):112–5

Rationing health care. Maynard A. **Br J Hosp Med** 1996 Nov 20–Dec 10;56(10):549–50

Caring for "socially undesirable" patients [see comments] Jecker NS. **Camb Q Healthc Ethics** 1996 Fall;5(4):500–10 . Comment in: Camb Q Healthc Ethics 1996 Fall;5(4):519–32.

Seeking justice for Priscilla [see comments] Lantos J. **Camb Q Healthc Ethics** 1996 Fall;5(4):485–92. Comment in: Camb Q Healthc Ethics 1996 Fall;5(4):519–32.

Allocating healthcare by QALYs: the relevance of age. Mckie J, et al. **Camb Q Healthc Ethics** 1996 Fall;5(4):534–45

Recapturing justice in the managed care era. Moreno JD. **Camb Q Healthc Ethics** 1996 Fall;5(4):493–9

Age as a basis for healthcare rationing. Arguments against agism. Scharf S, et al. **Drugs Aging** 1996 Dec;9(6):399–402

Age as a basis for healthcare rationing. Support for agist policies. Shaw AB. **Drugs Aging** 1996 Dec;9(6):403–5

Doctors' willingness to refer elderly patients for elective surgery. Ryynänen OP, et al. **Fam Pract** 1997 Jun; 14(3):216–9

Is the person trade–off a valid method for allocating health care resources? Pinto Prades JL. **Health Econ** 1997 Jan–Feb;6(1):71–81

Intergenerational equity: an exploration of the 'fair innings' argument. Williams A. **Health Econ** 1997 Mar–Apr; 6(2):117–32 (28 ref.)

Defining and implementing medical necessity in Washington State and Oregon. Jacobson PD, et al. **Inquiry** 1997 Summer;34(2):143–54

Ethical allocation of ICU resources: a view from the USA. Osborne M, et al. **Intensive Care Med** 1996 Oct; 22(10):1010–4 (49 ref.)

High–technology medicine and the old: the dialysis example. Kjellstrand CM. **J Intern Med** 1996 Mar;239(3):195–210 (94 ref.)

Public health—everybody's business: inequalities in health. St. Catherine's College, Oxford, 14–15 December 1995. The Church and inequalities in health. Harries R. **J Public Health Med** 1997 Mar;19(1):61–4

Public perceptions of the importance of prognosis in allocating transplantable livers to children. Ubel PA, et al. **Med Decis Making** 1996 Jul–Sep;16(3):234–41

Ethics of allocating intensive care unit resources. Lanken PN, et al. **New Horiz** 1997 Feb;5(1):38–50 (45 ref.)
Setting behavioral health priorities: good news and crucial lessons from the Oregon Health Plan. Sabin JE, et al. **Psychiatr Serv** 1997 Jul;48(7):883–4, 889
Health care: a social contract in transition. Hill TP. **Soc Sci Med** 1996 Sep;43(5):783–9 (23 ref.)
"Ruling in" and "ruling out": two approaches to the micro–rationing of health care. Hughes D, et al. **Soc Sci Med** 1997 Mar;44(5):589–99

STATISTICS & NUMERICAL DATA

The effects of state intergovernmental transfers on local public mental health services. Lynch FL. **Adm Policy Ment Health** 1997 Mar;24(4):279–99
Child age and caseworker attention in child protective services investigations. Freeman JB, et al. **Child Abuse Negl** 1996 Oct;20(10):907–20
Finding the medically underserved: a need to revise the federal definition [editorial] Wright RA, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):296–307
Assigning values to intermediate health states for cost–utility analysis: theory and practice. Cohen BJ. **Med Decis Making** 1996 Oct–Dec;16(4):376–85 (56 ref.)
[Need–based resource allocation––experiences with the RAWP formula in Great Britain] Brand H, et al. **Gesundheitswesen** 1997 Jul;59(7):441–6 (Eng. Abstr.) **(Ger)**

TRENDS

The evaluation of HIV counseling–and–testing services: making the most of limited resources. Holtgrave DR, et al. **AIDS Educ Prev** 1997 Jun;9(3 Suppl):105–18
Re: Psychiatric practice for the coming decade [letter; comment] Kutcher S. **Can J Psychiatry** 1996 Sep; 41(7):482–3. Comment on: Can J Psychiatry 1996 Apr;41(3):156–60.
The concept of equity in health services research. Krasnik A. **Scand J Soc Med** 1996 Mar;24(1):2–7
Perceptions of rural addictions and related HIV. Leukefeld CG, et al. **Subst Use Misuse** 1997 Jan;32(1):83–8
[General practice 2000––what should be done today? (interview)] Ehlers A. **Fortschr Med** 1997 Feb 20; 115(5):54–6 **(Ger)**

HEALTH CARE REFORM

see related
SINGLE–PAYER SYSTEM

Health care system reform in the United Kingdom. Dawson P. **Acad Radiol** 1996 Nov;3(11):954–7
Health care system reform and its effect on the resident workforce. Rosiello DC. **Acad Radiol** 1996 Dec; 3(12):1042–3
The impact of health care reform [editorial; comment] Chan KH. **Acta Anaesthesiol Sin** 1996 Mar;34(1):i–iii. Comment on: Acta Anaesthesiol Sin 1996 Mar;34(1):27–32.
The impact of health care reform on anesthesiologists and their patients in the United States: an ergonomic perspective [see comments] Weinger MB. **Acta Anaesthesiol Sin** 1996 Mar;34(1):27–32 (31 ref.). Comment in: Acta Anaesthesiol Sin 1996 Mar;34(1):i–iii.
Controlling health care spending: unintended consequences of a fragmented approach. Nissenson AR. **Adv Ren Replace Ther** 1996 Jul;3(3):191–9
AIHA and OSHA reform [see comments] Rose VE. **Am Ind Hyg Assoc J** 1996 Apr;57(4):325. Comment in: Am Ind Hyg Assoc J 1996 Sep;57(9):859–60.
Sailing close to the wind [editorial] [see comments] Dracup K, et al. **Am J Crit Care** 1997 Mar;6(2):85–7. Comment in: Am J Crit Care 1997 May;6(3):255.
The "gail force winds" of healthcare reform [letter; comment] Perkins R. **Am J Crit Care** 1997 May;6(3):255. Comment on: Am J Crit Care 1997 Mar;6(2):85–7.
Aequanimitas, ... and then some. Katz S. **Am J Gastroenterol** 1997 Feb;92(2):199–203
Inaugural commentary [editorial] Joel LA. **Am J Nurs** 1997 Mar;97(3):7
Of the people, by the people [editorial] Joel LA. **Am J Nurs** 1996 Dec;96(12):7
Fanning the embers of policy reform [editorial] Joel LA. **Am J Nurs** 1996 Nov;96(11):7
Decrying the loss of organizational leadership [editorial] Joel LA. **Am J Nurs** 1996 Oct;96(10):7
ANA leaders launch sequel to 'Nursing's Agenda'. Marullo G. **Am J Nurs** 1997 Sep;97(9):63–5
Where have all the nurses gone? Final results of our Patient Care Survey. Shindul–Rothschild J, et al. **Am J Nurs** 1996 Nov;96(11):25–39
Changes occurring in health care and orthopedics [letter] Jevsevar DS. **Am J Orthop** 1996 May;25(5):383
Italian psychiatric reform [letter] Balon R. **Am J Psychiatry** 1997 Oct;154(10):1485; discussion 1486
Managed care [letter; comment] Light DW. **Am J Psychiatry** 1997 Mar;154(3):443. Comment on: Am J Psychiatry 1996 Feb;153(2):256–60.
Italian psychiatric reform [letter] Pergami A, et al. **Am J Psychiatry** 1997 Oct;154(10):1485–6
A lesson in history, circa 2047 [editorial] Shore MF. **Am J Psychiatry** 1997 Mar;154(3):307–11
Reinventing public health. Lee P, et al. **Annu Rev Public Health** 1997;18:1–35 (121 ref.)
Pew Health Professions Commission task force releases policy considerations for reforming health care workforce regulation [see comments] Giordan BP. **AORN J** 1996 Feb; 63(2):343, 346–8. Comment in: AORN J 1996 Feb;63(2):338, 340.
Put the Pew Health Professions Commission health care workforce regulation report at the top of your 1996 reading list [editorial; comment] Giordano BP. **AORN J** 1996 Feb; 63(2):338, 340. Comment on: AORN J 1996 Feb;63(2):343, 346–8.
Where's WHALDO? In search of the wisest, health care alternative, long–term delivery organization. Ulrich CM. **AORN J** 1997 Feb;65(2):417–8
Academic dermatology in a changing health care environment [editorial] Lynch PJ. **Arch Dermatol** 1997 Apr;133(4):509–13
Physician reactions to the health care revolution. A grief model approach. Daugird A, et al. **Arch Fam Med** 1996 Oct;5(9):497–500; discussion 501
Health professional shortage areas, health status, and reform [letter] Good RG. **Arch Fam Med** 1996 Apr;5(4):196–7
A funny thing happened on the way to reform. Tischler GL, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):959–63 (29 ref.)
Averaging excellence out? [editorial] Johns ME, et al. **Arch Otolaryngol Head Neck Surg** 1996 Oct; 122(10):1039–40
The price to pay for education. Tippett JW. **Arthroscopy** 1997 Aug;13(4):533–6
Health outcomes in Australia and the United States [letter; comment] Uzych L. **Aust N Z J Med** 1996 Jun;26(3):416–7 . Comment on: Aust N Z J Med 1995 Dec;25(6):731–5.
Lost in the market? A survey of senior public health service managers in New Zealand's 'reforming' health system. Malcolm L, et al. **Aust N Z J Public Health** 1996 Dec; 20(6):567–73
Health outcomes and radiation therapy: a new era of competition [editorial; comment] Berry MP, et al. **Australas Radiol** 1997 Feb;41(1):1–2. Comment on: Australas Radiol 1997 Feb;41(1):29–34.
Smoking cessation. 3: Needed healthcare policy changes. McClure JB, et al. **Behav Med** 1997 Spring;23(1):29–34
Primary care: opportunities and threats. Deregulating primary care. Coulter A, et al. **BMJ** 1997 Feb 15; 314(7079):510–3
France votes for health reform [news] Dorozynski A. **BMJ** 1996 Nov 16;313(7067):1224
WHO reform and global health [editorial; comment] Godlee F. **BMJ** 1997 May 10;314(7091):1359–60. Comment on: BMJ 1997 May 10;314(7091):1404–7. Comment on: BMJ 1997 May 10;314(7091):1407–9.
The New Zealand priority criteria project. Part 1: Overview [see comments] Hadorn DC, et al. **BMJ** 1997 Jan 11; 314(7074):131–4. Comment in: BMJ 1997 Jan 11;314(7074):86–7. Comment in: BMJ 1997 Apr 12;314(7087):1130–1.
Reforming the New Zealand health reforms [editorial; comment] Ham C. **BMJ** 1997 Jun 28;314(7098):1844–5. Comment on: BMJ 1997 Jun 28;314(7098):1890–2. Comment on: BMJ 1997 Jun 28;314(7098):1892–4.
Primary care: opportunities and threats. Threat to social justice. Heath I. **BMJ** 1997 Feb 22;314(7080):598–9
New Zealand's health reforms: a clash of cultures [see comments] Hornblow A. **BMJ** 1997 Jun 28; 314(7098):1892–4. Comment in: BMJ 1997 Jun 28;314(7098):1844–5.
Primary care: opportunities and threats. Broader teamwork in primary care. Kendrick T, et al. **BMJ** 1997 Mar 1; 314(7081):672–5
Primary care: opportunities and threats. An opportunity to improve primary care. Pringle M. **BMJ** 1997 Feb 22; 314(7080):595–7
Welfare reform in the United States [editorial] Purdy S. **BMJ** 1996 Oct 26;313(7064):1028–9
Colombia struggles with health reform [news] Richards T. **BMJ** 1997 Aug 30;315(7107):504
South African health reform on the rails [news] Sidley P. **BMJ** 1996 Oct 5;313(7061):839
Health reforms: a New Zealand perspective [editorial] Coster G, et al. **Br J Gen Pract** 1996 Jul;46(408):391–2
A stakeholder analysis of developments at the primary and secondary care interface. Evans D. **Br J Gen Pract** 1996 Nov;46(412):675–7
Changes in general practice organization: survey of general practitioners' views on the 1990 contract and fundholding. Leese B, et al. **Br J Gen Pract** 1996 Feb;46(403):95–9
General practitioners and family doctors in the Russian Federation. Ryan M, et al. **Br J Gen Pract** 1996 Aug; 46(409):487–9
Caring for the elderly: problems and priorities. Banerjee AK. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):159–61 (17 ref.)
Evolving health care [editorial] Dorrell S. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):128–30
The Patient's Charter. Latham S, et al. **Br J Hosp Med** 1996 Jul 10–Aug 20;56(2–3):109–10
Professionals in the NHS. Normand C. **Br J Hosp Med** 1996 Oct 16–Nov 5;56(8):424–5
Patient/doctor relationships in the new NHS [see comments] Turner–Warwick M. **Br J Hosp Med** 1996 Jun 19–Jul 9; 56(1):46–8. Comment in: Br J Hosp Med 1997 Apr 2–15;57(7):352.
Presentation of the Margaret E. Mahoney Award. **Bull N Y Acad Med** 1996 Winter;73(2 Suppl):598–606
Reform of well–baby services [editorial] Edouard L. **Can Fam Physician** 1997 Jul;43:1195–6, 1199–200 **(Eng, Fre)**
Saving Medicare. Is privatization the answer? [editorial] Gordon M. **Can Fam Physician** 1996 Nov;42:2114–6, 2125–8 **(Eng, Fre)**
Who comes first, doctors or patients? [letter] Newman A. **Can Fam Physician** 1996 Nov;42:2135, 2137
Retrospective. Part 4: health care system [news] Perkin RL. **Can Fam Physician** 1996 Jan;42:184
Technology–based dissemination. Jennett PA, et al. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S34–9
Presidential address 1996: "Dear Ministers of Health...." Canadian Association of General Surgeons. Taylor BR. **Can J Surg** 1997 Apr;40(2):101–7
Health care as an election issue: Alberta's experience. Cairney R. **Can Med Assoc J** 1997 May 15;156(10):1438, 1440
It's time for CMA to put the lid on privatization [editorial] [see comments] Carver C. **Can Med Assoc J** 1996 Oct 15; 155(8):1156–7. Comment in: Can Med Assoc J 1997 Mar 15;156(6):770–1. Comment in: Can Med Assoc J 1997 Mar 15;156(6):771.
Promises, promises. Gray C. **Can Med Assoc J** 1997 May 15;156(10):1433–5
NHS reforms reduce length of waiting lists but create widespread unease. Gray C. **Can Med Assoc J** 1996 Nov 15;155(10):1487–8
The National Forum reports: crisis? What crisis? Gray C. **Can Med Assoc J** 1997 Mar 15;156(6):891–2
Devolving authority for health care in Canada's provinces: 3. Motivations, attitudes and approaches of board members. Lomas J, et al. **Can Med Assoc J** 1997 Mar 1;156(5):669–76
Study questions whether equalization of health care services a logical goal. OReilly M. **Can Med Assoc J** 1997 Feb 1;156(3):413–5
Value for money in South African health care: findings of a review of health expenditure and finance. Doherty J, et al. **Cent Afr J Med** 1996 Jan;42(1):21–4 (5 ref.)
The World Development Report on "investing in health": a Sri Lankan perspective. Lakshman WD, et al. **Ceylon Med J** 1996 Sep;41(3):90–5
James B. Herrick Lecture. Cardiologist adapts to healthcare change for the year 2000. Gorlin R. **Circulation** 1996 Oct 1;94(7):1781–5
Health care among forgotten issues in forgettable federal election. Gray C. **CMAJ** 1997 Jul 1;157(1):57–8
Primary care reform: is it time for population–based funding? [editorial] Mowat DL. **CMAJ** 1997 Jul 1;157(1):43–4
"A sacred cow feeding the public a steady line of bull." Sataline L. **Conn Med** 1996 Aug;60(8):495
Health care reform: effects on electrophysiology and pacing. Naccarelli GV. **Curr Opin Cardiol** 1997 Jan;12(1):1–2
The challenge of changing healthcare systems. Weber F. **Drugs** 1996;52 Suppl 2:68–75; discussion 75–7
Beyond distributive justice in health reform. Jennings B. **Hastings Cent Rep** 1996 Nov–Dec;26(6):14–5
Association leaders speak out on health system change. Corrigan JM, et al. **Health Aff (Millwood)** 1997 Jan–Feb; 16(1):150–7
Whither quality? [comment] Hungate RW. **Health Aff (Millwood)** 1996 Winter;15(4):111–3. Comment on: Health Aff (Millwood) 1996 Winter;15(4):93–104.
Will Medicare reforms increase managed care enrollment? Pauly MV. **Health Aff (Millwood)** 1996 Fall;15(3):182–91
Smart technology, stunted policy: developing health information networks. Starr P. **Health Aff (Millwood)** 1997 May–Jun;16(3):91–105
The physician executive: role in the adaptation of American medicine. Schneller ES, et al. **Health Care Manage Rev** 1997 Spring;22(2):90–6 (46 ref.)
Shaping the future [editorial] Shortell SM. **Health Serv Res** 1997 Feb;31(6):655–8
What role for social work in the new health care practice paradigm? Keigher SM. **Health Soc Work** 1997 May; 22(2):149–55 (17 ref.)
Naive, not stupid. Keigher SM. **Health Soc Work** 1995 Feb; 20(1):70–4
Keeping managed care in balance [editorial] Poole DL. **Health Soc Work** 1996 Aug;21(3):163–6 (29 ref.)
Impact of the 1991 NHS reforms on the availability and use of coronary revascularisation in the UK (1987–1995). Black N, et al. **Heart** 1996 Dec;76(4 Suppl 4):1–31
Russian Nursing Education Reform Project: new nurses for a new Russia. Rosebrough A. **Image J Nurs Sch** 1997; 29(2):159–62
Presidential Address. India's health scenario–few issues and challenges. Dutta PK. **Indian J Public Health** 1996 Jul–Sep; 40(3):58–61
Medicare reform should be more than federal budget reform––and it should be done soon [editorial] Swartz K. **Inquiry** 1997 Spring;34(1):5–7
Technology and health system reform. Lang AC. **Int Anesthesiol Clin** 1995 Fall;33(4):119–32 (19 ref.)
The golden rule of health care: he who has the gold makes the rule [see comments] Lober CW. **Int J Dermatol** 1996 Sep;35(9):676–7. Comment in: Int J Dermatol 1996 Sep;35(9):621–2.
Renewing the National Health Service: Labour's agenda for a healthier Britain. **Int J Health Serv** 1996;26(2):269–308 (0 ref.)
Back to Europe: back to Bismarck? Deppe HU, et al. **Int J Health Serv** 1996;26(4):777–802

Industrial relations effects of English health care reforms on doctors. Loewenberg JJ. **Int J Health Serv** 1996; 26(4):611–23

Mental health services in England: the 1990s. Hollingsworth EJ. **Int J Law Psychiatry** 1996 Summer–Fall;19(3–4):309–25 (73 ref.)

Beyond quality management methods: meeting the challenges of health care reform. Minvielle E. **Int J Qual Health Care** 1997 Jun;9(3):189–92

"I believe in angels...". Shalala DE. **J Adolesc Health** 1996 Sep;19(3):195–8

The practice–based context of educational innovation: nurse and midwife preparation in Scotland. Veitch L, et al. **J Adv Nurs** 1997 Jan;25(1):191–8

Training Program Directors Committee position statement on Health Care Reform. American Academy of Allergy, Asthma and Immunology. **J Allergy Clin Immunol** 1996 Oct;98(4):719–20

The changing role of the family physician––Nirvana or Waterloo? Third annual Nicholas J. Pisacano, MD, memorial lecture [see comments] Jones JG. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):442–7. Comment in: J Am Board Fam Pract 1997 Mar–Apr;10(2):174. Comment in: J Am Board Fam Pract 1997 Mar–Apr;10(2):174–5.

The ethical consequences of health care reform. Jackson TR. **J Am Coll Dent** 1996 Spring;63(1):38–9

Healthcare reform: a survey of college health services. Mills D, et al. **J Am Coll Health** 1996 Nov;45(3):106–117

Dual Medicare–Medicaid eligibility spurs health care reform [news] **J Am Diet Assoc** 1997 Jul;97(7):736

Medicare reform offers ADA opportunity to promote MNT [news] **J Am Diet Assoc** 1997 Apr;97(4):378

A commitment to change: revision of HCFA's RAI [see comments] Morris JN, et al. **J Am Geriatr Soc** 1997 Aug; 45(8):1011–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

The evolving role of outcomes measurement and management in healthcare. Licciardone JC. **J Am Osteopath Assoc** 1997 May;97(5):290–2 (17 ref.)

Role of medical education in health care reform. Caselli MA. **J Am Podiatr Med Assoc** 1997 Jan;87(1):2–5

Let's build a medical care delivery system like we built the atomic bomb [editorial] Finkbeiner A. **J Ark Med Soc** 1996 Aug;93(3):116–7

Challenges and opportunities for cancer educators in the new health care environment. Mirand EA. **J Cancer Educ** 1997 Spring;12(1):8

The demise of modern medicine and gastroenterology [editorial] Buchman AL. **J Clin Gastroenterol** 1996 Sep; 23(2):91–3

The Canadian health care crisis and how to survive it: can cost effectiveness save Canadian doctors? Innes G. **J Emerg Med** 1997 May–Jun;15(3):410–5 (19 ref.)

Health reform and emergency department utilization [letter; comment] Uzych L. **J Emerg Med** 1996 May–Jun;14(3):381 . Comment on: J Emerg Med 1995 Sep–Oct;13(5):675–8.

The economics of medicine in Florida. Smith AE. **J Fla Med Assoc** 1996 Feb;83(2):75–6

The political agenda of health care for African Americans. Brooks TJ 3rd. **J Health Care Poor Underserved** 1997 Aug; 8(3):377–82; discussion 382–3

Managed care and community–oriented care: conflict or complement? Lairson DR, et al. **J Health Care Poor Underserved** 1997 Feb;8(1):36–55 (34 ref.)

Introduction. Health care into the next century. Peterson MA. **J Health Polit Policy Law** 1997 Apr;22(2):291–313 (55 ref.)

Making doctors change [editorial] [see comments] Harvald B. **J Intern Med** 1996 Mar;239(3):191–3. Comment in: J Intern Med 1996 Jul;240(1):51–2.

Heart and vision. Palmisano DJ. **J La State Med Soc** 1996 Aug;148(8):350–2

Free choice of sickness funds: economic implications and ethical aspects of the 1992 health care reform in Germany. Cassel D, et al. **J Med Philos** 1995 Dec;20(6):657–67

Enterprise association or civil association? The UK national health service. Edgar A. **J Med Philos** 1995 Dec; 20(6):669–88

Tax reform and physician services. American Medical Association Center for Health Policy Research. **J Miss State Med Assoc** 1997 Apr;38(4):141–3

What I want for Christmas. McMillan FL. **J Miss State Med Assoc** 1996 Dec;37(12):909–10

Congressional actions affect cancer research [news] Bennett S. **J Natl Cancer Inst** 1996 Oct 16;88(20):1432–3

Managed care, maniac care, rationed care, or no care: does anyone care? [editorial] Dawson G. **J Natl Med Assoc** 1997 Jul;89(7):447–51

Health–care reform and its impact on African–American surgical specialists. Smith EB. **J Natl Med Assoc** 1996 Mar; 88(3):161–8

Managed care: the impact on African–American health–care delivery. Veal YS. **J Natl Med Assoc** 1995 Nov; 87(11):789–90

Developing nurse leaders for today and tomorrow, Part 1, foundations of leadership in practice. Aroian J, et al. **J Nurs Adm** 1996 Sep;26(9):18–26

A new connectedness. Beyers M. **J Nurs Adm** 1996 Sep; 26(9):5–6

Reformatting health care delivery. Ehrat KS, et al. **J Nurs Adm** 1996 Dec;26(12):5–8 (18 ref.)

Midwifery, birth centers, and health care reform. Ernst EK. **J Obstet Gynecol Neonatal Nurs** 1996 Jun;25(5):433–9 (10 ref.)

The disabled, the disallowed, the disaffected and the disavowed [editorial] Hadler NM. **J Occup Environ Med** 1996 Mar;38(3):247–51

Healthcare reform––our input. Harper DL. **J Okla State Med Assoc** 1997 Feb;90(2):44

Survival in the new order of healthcare [letter] Moffat M. **J Orthop Sports Phys Ther** 1997 Aug;26(2):104–5

Strategies for the development of contemporary nursing policy. Jossens MO. **J Prof Nurs** 1997 Jul–Aug;13(4):222–7 (27 ref.)

Books on health policy and health reform: how is nursing represented? Mundt MH. **J Prof Nurs** 1997 Jan–Feb; 13(1):19–27 (47 ref.)

The privatization of the National Health Service. Butler J. **J R Soc Med** 1997 Jan;90(1):3–7

Responding to change––or despondent and estranged? [editorial] Coni N. **J R Soc Med** 1997 Feb;90(2):61

Who will care for our patients? [editorial] Panush RS, et al. **J Rheumatol** 1995 Dec;22(12):2197–9

Medicare repair. Nichols CS. **J S C Med Assoc** 1997 Feb; 93(2):45

Physician's profile: fact or fiction? Knight RQ, et al. **J Spinal Disord** 1996 Dec;9(6):509–17

Who is still uninsured in Minnesota? Lessons from state reform efforts. Call KT, et al. **JAMA** 1997 Oct 8; 278(14):1191–5

Whatever happened to the health insurance crisis in the United States? Voices from a national survey. Donelan K, et al. **JAMA** 1996 Oct 23–30;276(16):1346–50

Public health advocates target children's health [news] Voelker R. **JAMA** 1996 Dec 25;276(24):1938

Are Medicaid reforms on the horizon? [news] Voelker R. **JAMA** 1997 Mar 5;277(9):697

Self–help groups and health care reform. Scanlan T, et al. **Kans Med** 1996 Summer–Fall;97(2):33–4

Health service changes in New Zealand [letter] Jones L. **Lancet** 1997 May 17;349(9063):1481–2

Health sector reform and rise of caesarean birth in Chile [letter] [see comments] Murray SF, et al. **Lancet** 1997 Jan 4;349(9044):64. Comment in: Lancet 1997 Apr 5;349(9057):1029.

Panic disorder and depression: how can health care reform address behavioral disorders common in primary care? Shearer SL, et al. **Md Med J** 1996 Sep;45(9):755–61

Medical education in the USA: lessons from the health care reform era. Mullan F. **Med Educ** 1995;29 Suppl 1:57–60

Point of view: a house divided against itself: on Hippocrates and swimming with the sharks. Plover J. **Med Health R I** 1996 Dec;79(12):428–30

Doctors and healthcare reform [editorial; comment] Duckett SJ. **Med J Aust** 1997 Aug 18;167(4):184–5. Comment on: Med J Aust 1997 Aug 18;167(4):201–4.

Health service reform: the perceptions of medical specialists in Australia (New South Wales), the United Kingdom and New Zealand [see comments] Perkins RJ, et al. **Med J Aust** 1997 Aug 18;167(4):201–4. Comment in: Med J Aust 1997 Aug 18;167(4):184–5.

Change an open invitation. McCormick LH. **Mich Med** 1996 Dec;95(12):38–9

Managed care reform in the political limelight. **Mo Med** 1997 Jan;94(1):25–6

Major provisions of MSMA'S proposed insurance market reform bill. **Mo Med** 1996 Jan;93(1):30–6

Public policy. The health care juggling act: balancing universal access, cost containment, and quality improvement. Chassin MR. **Mt Sinai J Med** 1997 Mar; 64(2):101–4

Fixing Medicare [editorial; comment] Angell M. **N Engl J Med** 1997 Jul 17;337(3):192–5. Comment on: N Engl J Med 1997 Jul 17;337(3):169–75.

Reform of the Veterans Affairs heath care system. Iglehart JK. **N Engl J Med** 1996 Oct 31;335(18):1407–11

Gatekeepers no more: family practitioners as power brokers and fence wanderers. Frost BR. **N Z Med J** 1997 Apr 11; 110(1041):129–30

Primary care and health reform in New Zealand. Grant CC, et al. **N Z Med J** 1997 Feb 14;110(1037):35–9

General practitioner obstetrics [letter] Hoogerbrug M. **N Z Med J** 1997 Apr 11;110(1041):132

Independent practitioner associations: improving the quality of health care. Jansen P. **N Z Med J** 1997 Mar 28; 110(1040):85–6

A new stance in the doctor–patient relationship? [letter] Newton–Howes G. **N Z Med J** 1997 Apr 11;110(1041):133

Letter from Johannesburg [news] Walker AR. **Natl Med J India** 1996 Jan–Feb;9(1):38–9

Health care reform in USA [letter; comment] Bennett WM. **Nephrol Dial Transplant** 1996 Oct;11(10):2108. Comment on: Nephrol Dial Transplant 1996 Jan;11(1):203–7.

View from across the Atlantic. Health care reform engulfs all of us. Friedman EA. **Nephrol Dial Transplant** 1996 Sep; 11(9):1881–4

View from across the Atlantic. America struggles with health care reform [letter; comment] Minuth A. **Nephrol Dial Transplant** 1996 Aug;11(8):1667–8. Comment on: Nephrol Dial Transplant 1996 Jan;11(1):203–7.

Women's health and women's health care: recommendations of the 1996 AAN Expert Panel on Women's Health. **Nurs Outlook** 1997 Jan–Feb;45(1):7–15 (27 ref.)

The abandonment of the patient [news] Fagin CM, et al. **Nurs Outlook** 1996 May–Jun;44(3):147–9

CPR: can we be resuscitated? Frigoletto FD Jr. **Obstet Gynecol** 1997 Jan;89(1):1–4

What's wrong with this picture? [editorial] [see comments] Carroll–Johnson RM. **Oncol Nurs Forum** 1996 Oct; 23(9):1369. Comment in: Oncol Nurs Forum 1997 Jan–Feb;24(1):15.

Healthcare reform must not compromise patient care [letter] Murphy MC. **Oncol Nurs Forum** 1996 Oct;23(9):1373–4

Dilemmas, boiling frogs, and dialogues [editorial] Minckler D. **Ophthalmology** 1995 Jul;102(7):1005–6

Clarity of judgment during amoral times in a society addicted to codified law. Neel Distinguished Research Lecturer. Jennings MM. **Otolaryngol Head Neck Surg** 1997 Jul; 117(1):1–6

Looking back at the year that was. Rhoads JE Jr. **Pa Med** 1996 Oct;99(10):10, 12

Palliative care in Argentina: deep changes are necessary for its effective implementation [letter] Wenk R, et al. **Palliat Med** 1996 Jul;10(3):263

Academic centers and change in health care reimbursement [editorial] Schafermeyer RM. **Pediatr Emerg Care** 1996 Jun; 12(3):155

Outcome of patients after reform in Italy [letter] Pariante CM, et al. **Psychiatr Serv** 1996 Nov;47(11):1266–7

Indigent adolescents' concerns about health care reform. Weinman ML, et al. **Psychol Rep** 1996 Feb;78(1):306

Building castles and providing foundations [editorial] Graham KY, et al. **Public Health Nurs** 1996 Feb;13(1):1–2

Of Lillian Wald, community health nursing education, and health care reform. Jossens MO, et al. **Public Health Nurs** 1996 Apr;13(2):97–103

Rural health care and health care reform [editorial] Knollmueller RN. **Public Health Nurs** 1994 Jun;11(3):143–4

A future reality? [editorial] Rubadue CL. **Public Health Nurs** 1996 Oct;13(5):303–4

It's Prozac time in medicine. Heilman RS. **Radiographics** 1996 Sep;16(5):996

Health care financing outlook. Thomas SJ. **Reg Anesth** 1996 Sep–Oct;21(5):474–6

A further shock to health care [letter] Bouwer CD, et al. **S Afr Med J** 1996 Aug;86(8):982

Health care reforms in Bulgaria: an initial appraisal. Borissov V, et al. **Soc Sci Med** 1996 Jun;42(11):1501–10 (42 ref.)

The Hippocratic enigma. Weinstein JN. **Spine** 1996 Apr 15; 21(8):905–9

Welfare reform. BeSaw L. **Tex Med** 1996 Dec;92(12):50–4

Front–runner. BeSaw L. **Tex Med** 1997 Aug;93(8):28–31

High hopes for managed care [see comments] Bohmfalk GL. **Tex Med** 1996 Feb;92(2):20–1. Comment in: Tex Med 1996 Apr;92(4):7–8.

Mediscare. Ortolon K. **Tex Med** 1997 Jun;93(6):32–4

Building a bond. Ortolon K. **Tex Med** 1997 Apr;93(4):28–30, 33

Lobby group clarifies mission [letter; comment] Shivers A Jr. **Tex Med** 1996 Oct;92(10):13–5. Comment on: Tex Med 1996 Aug;92(8):22–4, 27.

A dangerous profession. Morton JA, et al. **West J Med** 1996 Mar;164(3):276

Effect of changes in the health care system on the career outlook of University of Washington, Seattle, medical students. Piehl JH, et al. **West J Med** 1996 Mar; 164(3):217–21

Nursing in Europe: a resource for better health. Introduction. Salvage J. **WHO Reg Publ Eur Ser** 1997;74:1–11 (5 ref.)

Ethics and health [letter; comment] Uzych L. **World Health Forum** 1996;17(4):399–400. Comment on: World Health Forum 1995;16(2):115–25.

[Failures, problems and hopes in the transformation of health services. 3. New paradigms in health care and their necessity] Záček A. **Cas Lek Cesk** 1997 Mar 19;136(6):167–9 (Eng. Abstr.) **(Cze)**

[Failures, problems and hopes in the transformation of health services. I. Causes of erroneous decisions in the beginning phases of transformation] Záček A. **Cas Lek Cesk** 1997 Feb 12;136(4):103–5 (Eng. Abstr.) **(Cze)**

[Failures, problems and hopes in the transformation of health services. 2. Dilemmas in the development of health services] Záček A. **Cas Lek Cesk** 1997 Mar 12;136(5):135–7 (Eng. Abstr.) **(Cze)**

[To cure the health care system, everybody's business (editorial)] Detry R. **Ann Chir** 1996;50(7):499–501 **(Fre)**

[The role of family physicians (letter)] De Serres J. **Can Fam Physician** 1997 Jun;43:1042–4 **(Fre)**

[Blood transfusion in France and elsewhere (editorial)] de Micco P. **Med Trop (Mars)** 1996;56(2):139–40 **(Fre)**

[Health education in Lebanon: current state and perspectives] Mekhael E. **Promot Educ** 1997 Mar;4(1):27–31 **(Fre)**

[How to export orthodoxy to the South. The World Bank and health care reform in Uganda] Stefanini A. **Ann Ig** 1996 Sep–Oct;8(5):509–16 (Eng. Abstr.) **(Ita)**

[Evidence–based medicine: the cultural response to the new hospital payment system. The Italian Group on Evidence–Based Medicine (IGEBM)] Cartabellotta A. **Epidemiol Prev** 1996 Oct–Dec;20(4):301–3 **(Ita)**

[Efficiency and equity: an impossible matrimony?] Stefanini A. **Epidemiol Prev** 1996 Oct–Dec;20(4):292–5 **(Ita)**

[Organization of epilepsy care for people with mental

retardation. A situational analysis after the care reform] Brodtkorb E, et al. **Tidsskr Nor Laegeforen** 1997 Aug 30; 117(20):2956–60 (Eng. Abstr.) **(Nor)**

[On the way to public health reform] Denisov IN. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec;(6):36–7 **(Rus)**

[Physicians and the population on the reforming of public health (based on sociological research data)] Diukareva AM, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Mar–Apr; (2):36–9 (Eng. Abstr.) **(Rus)**

[Opinions of chief physicians on the health care reform in the Novosibirsk oblast] Filatov VB. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):22–4 **(Rus)**

[Various aspects of price formation in public health] Karaseva TV. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):20–4 (Eng. Abstr.) **(Rus)**

[Development of health care of the urban population under new economic conditions] Koretskiĭ VL. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec;(6):45–6 (Eng. Abstr.) **(Rus)**

[Problems in prophylaxis under the conditions of public health reform] Kucherenko VZ, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):42–6 (Eng. Abstr.) **(Rus)**

[Strategy and methodology of professional preparation of personnel for work under conditions of carrying out market reform] Makarov AI, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):24a–30 **(Rus)**

[Results of an experiment on the transition to the family practice service] Medrina GI, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):26–9 (Eng. Abstr.) **(Rus)**

[Health care reform] Omel'chenko VN. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):29–30 **(Rus)**

[Role of the general practitioner in the organization of the primary component of medical care] Pavlov VV, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):24–6 (Eng. Abstr.) **(Rus)**

[Public health under conditions of transition to market economics] Poliakov IV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec;(6):41–4 (Eng. Abstr.) **(Rus)**

[Current issues in the development of the system for health protection of the population of Russia. (The reform: imitation or reality?)] Polyakov IV. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):16–22 **(Rus)**

[Public health planning in public health reform] Preobrazhenskaya VS, et al. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):15–8 **(Rus)**

[Considerations on the article by V.I. Shevskiy "Reforms of health care system in the Samara oblast: problems and perspectives"] Pustovoy IV. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):36–7 **(Rus)**

[New social contract in the countries of former Soviet Union] Rice JA. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec; (6):26–35 **(Rus)**

[From the new economic mechanism in public health to obligatory insurance] Roytman MP, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):30–6 **(Rus)**

[On the state mechanisms of public health reform] Shchepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jan–Feb; (1):34–8 **(Rus)**

[Optimizing the model of developing general practitioner service] Shchepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):3–7 **(Rus)**

[Comments on the article by James A. Rice, "New social contract in the countries of former Soviet Union"] Shchepin OP. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec;(6):35–6 **(Rus)**

[New role of public health administration organs] Sheĭman IM. **Probl Sotsialnoi Gig Istor Med** 1995 Nov–Dec; (6):37–40 **(Rus)**

[Theoretical and organizational aspects of primary health care in Russia] Shepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):3–7 **(Rus)**

Analysis of the activity of therapeutic and prophylactic hospitals for validating the structural and functional reorganization of public health of a territory (as exemplified by the Tambov district)] Shepin VO. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):35–40 (Eng. Abstr.) **(Rus)**

[Public health care reform and its organization] Shepot'ko AI. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):48–9 **(Rus)**

[The reforms of the health care system in the Samara oblast. Problems and prospects] Shevskiy VI. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):25–8 **(Rus)**

[The course of health care reforms in Great Britain: the results and lessons] Smi KKh. **Probl Sotsialnoi Gig Istor Med** 1994 May–Jun;(3):37–45 **(Rus)**

[Difficult paths of the reforms] Zel'kovich RM. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):37–9 **(Rus)**

[Dear Magi...] Casajuana J. **Aten Primaria** 1996 Oct 31; 18(7):348–9 **(Spa)**

[Repercussions of the development of primary care reform on the role of nurses] Corrales Nevado D. **Aten Primaria** 1996 Dec;18(10):577–9 **(Spa)**

[The impact of primary health care reform in the utilization of medical and nursing services. Working Group on the Utilization of of Health Services] Fernández JL, et al. **Aten Primaria** 1996 Jun 30;18(2):52–7 (Eng. Abstr.) **(Spa)**

[Reform and neoliberalism (letter; comment)] Gérvas J. **Aten Primaria** 1997 May 31;19(9):493–6. Comment on: Aten Primaria 1997 Feb 28;19(3):105–7. **(Spa)**

[Primary care reform in Spain: between self–criticism and neoliberal proposals (editorial) (see comments)] Martín Zurro A. **Aten Primaria** 1997 Feb 28;19(3):105–7. Comment in: Aten Primaria 1997 May 31;19(9):493–6. Comment in: Aten Primaria 1997 May 31;19(9):493, 495–6. **(Spa)**

[Towards a reform that respects the principles of primary care (letter; comment)] Morera Montes J. **Aten Primaria** 1997 May 31;19(9):493, 495–6. Comment on: Aten Primaria 1997 Feb 28;19(3):105–7. **(Spa)**

[Health systems reform: What can western Europe contribute to Latin America?] Infante A, et al. **Educ Med Salud** 1995 Jul–Dec;29(3–4):286–303 **(Spa)**

[Health sector reform] Isaza Nieto P. **Educ Med Salud** 1995 Jul–Dec;29(3–4):270–85 **(Spa)**

[Relationship between ideology and efficiency of health care systems. Notes on the reform of the Spanish health care system] Elola J, et al. **Gac Sanit** 1996 Jul–Aug;10(55):191–6 (Eng. Abstr.) **(Spa)**

[Impact of the primary health care reform on the use of the hospital emergency services] Bolíbar I, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):289–95 (Eng. Abstr.) **(Spa)**

[Health care reform in Chile] Massad C. **Rev Med Chil** 1996 Jul;124(7):880–6 (Eng. Abstr.) **(Spa)**

[The fragmentation of national health systems] Barillas E. **Rev Panam Salud Publica** 1997 Mar;1(3):246–9 (Eng. Abstr.) **(Spa)**

[A popular vote in California: don't change health services] Bergström L. **Lakartidningen** 1996 Nov 20;93(47):4228 **(Swe)**

[A downbeat reality of the Adel–reform. Shortage of physicians is the greatest problem. Increased responsibility of the MAS–nurses] Nordin E. **Lakartidningen** 1997 Feb 26;94(9):691–3, 699–700 **(Swe)**

[The psychiatric reform is in danger when the economy is bad. The number of long–term mentally ill patients is going to increase] Román G. **Lakartidningen** 1996 Oct 23; 93(43):3822–4 **(Swe)**

[Reduced emergency care of patients with hip fractures. The Adel–reform changed the continuity of care, as intended] Zidén L, et al. **Lakartidningen** 1996 Oct 2;93(40):3478–80 **(Swe)**

[Hospital system in the year 2000 (editorial)] Calltorp J. **Nord Med** 1996 Feb;111(2):34 **(Swe)**

[Research must be profiled within a new health care structure (interview by Eva Oldinger)] Lindsten J. **Nord Med** 1996 Feb;111(2):41–2 **(Swe)**

ECONOMICS

Changes in academic emergency departments in response to market–driven health care reform. Simon HK, et al. **Acad Med** 1997 May;72(5):404

Reimbursement for cardiac procedures: past, present, and future. Levitsky S. **Ann Thorac Surg** 1996 Nov;62(5 Suppl):S14–7; discussion S31–2

The informatics of health care reform. Masys DR. **Bull Med Libr Assoc** 1996 Jan;84(1):11–16

Cost of health benefits becoming major business issue, conference told. Silversides A. **Can Med Assoc J** 1996 Oct 15;155(8):1175–6

Can medicine serve both humanity and the bottom line? [editorial] Clough JD. **Cleve Clin J Med** 1996 Sep; 63(5):257–8

Home care, medical care and the new competitive environment. Neuhauser D. **Disabil Rehabil** 1997 Apr; 19(4):155–7

St. Francis Hospice: Medicare and health care reform. Warren MA. **Hawaii Med J** 1996 Dec;55(12):276–7

First, do no harm: developing health insurance market reform packages. Blumberg LJ, et al. **Health Aff (Millwood)** 1996 Fall;15(3):35–53

What is driving health system change? [see comments] Etheredge L, et al. **Health Aff (Millwood)** 1996 Winter; 15(4):93–104 (8 ref.). Comment in: Health Aff (Millwood) 1996 Winter;15(4):111–13. Comment in: Health Aff (Millwood) 1996 Winter;15(4):114–5.

State health care reform in Massachusetts. Greenberg J, et al. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):188–93

Health care and America's rolling depression. Hodge MH. **Health Care Manage Rev** 1996 Summer;21(3):7–12 (17 ref.)

NHS contracts: an agency approach. Levaggi R. **Health Econ** 1996 Jul–Aug;5(4):341–52

Bridging the gap between public expectations and public willingness to pay [editorial] Smee CH. **Health Econ** 1997 Jan–Feb;6(1):1–9

The impact of health care policy initiatives on productivity. Tambour M. **Health Econ** 1997 Jan–Feb;6(1):57–70

A meat ax or a scalpel? A proposal for Medicare reform [editorial] Klein DH. **Inquiry** 1996–97 Winter;33(4):299–300

Impacts of the proposed restructuring of Medicare and Medicaid on the elderly: a conceptual framework and analysis. Lynch M, et al. **Int J Health Serv** 1997;27(1):57–75

Economic boundaries of health policy: factors influencing 1993–1994 reform proposals. Nayeri K. **Int J Health Serv** 1996;26(4):709–30

Future of health care reform [letter; comment] Uzych L. **J Am Board Fam Pract** 1996 Jul–Aug;9(4):305. Comment on: J Am Board Fam Pract 1996 Jan–Feb;9(1):37–40.

Health care in the United States is undergoing drastic changes attributable in large part to the financial crisis in health care funding [editorial; comment] Gates DM. **J Cardiovasc Nurs** 1996 Oct;11(1):v–vii. Comment on: J Cardiovasc Nurs 1996 Oct;11(1):1–13. Comment on: J Cardiovasc Nurs 1996 Oct;11(1):14–26. Comment on: J Cardiovasc Nurs 1996 Oct;11(1):27–38. Comment on: J Cardiovasc Nurs 1996 Oct;11(1):63–75. Comment on: J Cardiovasc Nurs 1996 Oct;11(1):76–85.

Changes in health care financing: effects on the delivery of health care services in the 1990s [see comments] Gates DM. **J Cardiovasc Nurs** 1996 Oct;11(1):1–13. Comment in: J Cardiovasc Nurs 1996 Oct;11(1):v–vii.

Restructuring the health care delivery system in the United States. Taylor R, et al. **J Health Care Finance** 1996 Summer;22(4):33–60

Health care into the next century: markets, states, and communities. Part 1: Legacies and markets. **J Health Polit Policy Law** 1997 Apr;22(2):291–666

Going for the gold: the redistributive agenda behind market–based health care reform [see comments] Evans RG. **J Health Polit Policy Law** 1997 Apr;22(2):427–65 (46 ref.). Comment in: J Health Polit Policy Law 1997 Apr;22(2):467–73. Comment in: J Health Polit Policy Law 1997 Apr;22(2):475–96.

The dynamics of market–level change. Ginsburg PB. **J Health Polit Policy Law** 1997 Apr;22(2):363–82 (16 ref.)

Markets and public programs: insights from Oregon and Tennessee. Gold M. **J Health Polit Policy Law** 1997 Apr; 22(2):633–66 (26 ref.)

Making sausage and making national health policy [comment] Laster L. **J Health Polit Policy Law** 1996 Winter; 21(4):863–8; discussion 869–71. Comment on: J Health Polit Policy Law 1996 Winter;21(4):825–44.

Managed care and Medicare reform. Oberlander JB. **J Health Polit Policy Law** 1997 Apr;22(2):595–631 (100 ref.)

Who was that straw man anyway? A comment on Evans and Rice [comment] Pauly MV. **J Health Polit Policy Law** 1997 Apr;22(2):467–73; discussion 497–508. Comment on: J Health Polit Policy Law 1997 Apr;22(2):383–426. Comment on: J Health Polit Policy Law 1997 Apr;22(2):427–65.

Can markets give us the health system we want? [see comments] Rice T. **J Health Polit Policy Law** 1997 Apr; 22(2):383–426 (76 ref.). Comment in: J Health Polit Policy Law 1997 Apr;22(2):467–73. Comment in: J Health Polit Policy Law 1997 Apr;22(2):475–96.

The health system in transition: care, cost, and coverage. Thorpe KE. **J Health Polit Policy Law** 1997 Apr; 22(2):339–61 (24 ref.)

Morality, consumerism and the internal market in health care [see comments] Sorell T. **J Med Ethics** 1997 Apr;23(2):71–6. Comment in: J Med Ethics 1997 Apr;23(2):67–8.

Health care reform: who's selling the market, and why? Evans RG. **J Public Health Med** 1997 Mar;19(1):45–9

Federalism and health system reform. Prospects for state action. Marquis MS, et al. **JAMA** 1997 Aug 13;278(6):514–7

The United Kingdom guidelines for the economic evaluation of medicines. Lovatt B. **Med Care** 1996 Dec;34(12 Suppl):DS179–81

The effect of universal coverage on health expenditures for the uninsured. Short PF, et al. **Med Care** 1997 Feb; 35(2):95–113

Global capitation rates. A survival primer for capitated environment—Part 2. Cawley K. **Mich Med** 1996 Oct; 95(10):32–4

From managed competition to managed cooperation: theory and lessons from the British experience. Light DW. **Milbank Q** 1997;75(3):297–341 (131 ref.)

Oregon health plan [letter] Uzych L. **Nurse Pract** 1996 Jun; 21(6):7–8

Effects of mental health services reform on clinical practice in the United Kingdom. Shepherd G, et al. **Psychiatr Serv** 1996 Dec;47(12):1351–5

Who will determine the direction of medical practice: physicians, patients, or "the market"? Evens RG. **Radiology** 1997 Aug;204(2):313–7

Market–oriented health care reforms: trends and future options. van de Ven WP. **Soc Sci Med** 1996 Sep; 43(5):655–66 (40 ref.)

Can market–based solutions work for all of Medicare? Barriers to reform in the Medicare population residing in health professional shortage areas. Kohrs FP. **South Med J** 1997 May;90(5):493–7

TennCare patients in chronic pain: is Medicaid reform really different? Livengood JM, et al. **Tenn Med** 1997 May; 90(5):183–4

Addressing implementation problems of Texas Medicaid reform. Begley CE. **Tex Med** 1996 Dec;92(12):23–4

[The US Health Care and the reform] Babazono A, et al.

Nippon Eiseigaku Zasshi 1996 Oct;51(3):666–76 (85 ref.) (Eng. Abstr.) **(Jpn)**

[Reform of the financing of the public health system in Israel] Koen MA. **Probl Sotsialnoi Gig Istor Med** 1994 Sep–Oct;(5):45–54 **(Rus)**

[The attitude of health personnel and population toward the economic reform in public health system. (The results of a survey in Chelyabinsk)] Rozenfeld LG, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):19–25 (Eng. Abstr.) **(Rus)**

HISTORY

Reform said or done? The case of Emilia–Romagna within the Italian psychiatric context. Fioritti A, et al. **Am J Psychiatry** 1997 Jan;154(1):94–8

The pleasures and perils of prophetic advocacy: Henry E. Sigerist and the politics of medical reform [see comments] Fee E. **Am J Public Health** 1996 Nov;86(11):1637–47. Comment in: Am J Public Health 1996 Nov;86(11):1522–3.

The iconography of child public health: between medicine and reform. Golden J. **Caduceus** 1996 Winter;12(3):55–72

Development of the prison medical service, 1774–1895. Hardy A. **Clio Med** 1995;34:59–80; discussion 81–2

Elizabeth Fry and mid–nineteenth century reform. Summers A. **Clio Med** 1995;34:83–100; discussion 101

The Woolf Report and after. Tumim JS. **Clio Med** 1995; 34:163–7; discussion 168–70

Social workers and national health care: are there lessons from Great Britain? Dworkin J. **Health Soc Work** 1997 May;22(2):117–23

Psychiatric reform in Italy: developments since 1978. Burti L, et al. **Int J Law Psychiatry** 1996 Summer–Fall; 19(3–4):373–90 (62 ref.)

[The democratic movement, cholera epidemic and public health reform in the Zurich canton (1867)] Condrau F. **Sudhoffs Arch Z Wissenschaftsgesch** 1996;80(2):205–19 (Eng. Abstr.) **(Ger)**

[Markusovszky and health care for students and youth] Hidvégi J, et al. **Orv Hetil** 1997 Mar 9;138(10):618–20 **(Hun)**

[The hospital reform in Vilnius: from charity houses to hospitals (late 18–early 19th century)] Andryushis A. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):59–62 **(Rus)**

LEGISLATION & JURISPRUDENCE

Emergency commitment and legislative reform in New Jersey. Kessen C. **Am J Orthopsychiatry** 1997 Jan; 67(1):123–33

Health insurance coverage of foreign–born US residents—the implications of the new welfare reform law [comment] Ladenheim K. **Am J Public Health** 1997 Jan;87(1):12–4. Comment on: Am J Public Health 1997 Jan;87(1):96–102.

National health care reform and the 103rd Congress: the activities and influence of public health advocates. Schauffler H, et al. **Am J Public Health** 1997 Jul; 87(7):1107–12

Health care reform—the consolation prize. Romig CL. **AORN J** 1997 May;65(5):974–7

A tactical response to the RAND Study [letter; comment] Hassin H. **Arch Ophthalmol** 1997 Jan;115(1):132–3. Comment on: Arch Ophthalmol 1996 Apr;114(4):476–7.

The case for medical savings accounts. Jampel HD. **Arch Ophthalmol** 1997 Sep;115(9):1185–8

Situation ethics and incremental reform of American health delivery systems. d'Oronzio JC. **Camb Q Healthc Ethics** 1996 Winter;5(1):169–72

Congress passes incremental healthcare reform [news] Hamburg RS, et al. **Circulation** 1996 Dec 15;94(12):3051

From grass roots to Capitol Hill. Rosomoff HL. **Clin J Pain** 1995 Dec;11(4):255–8

Rating the legislative environment. Tibbetts J. **Environ Health Perspect** 1997 Apr;105(4):384–6

The effects of the health reform act GSG on specialist medical training [editorial] Ratzel R. **Eur J Obstet Gynecol Reprod Biol** 1995 Dec;63(2):113–4

Legislating community care: the British experience, with U.S. comparisons. Filinson R. **Gerontologist** 1997 Jun; 37(3):333–40

The politics of the Health Insurance Portability and Accountability Act. Atchinson BK, et al. **Health Aff (Millwood)** 1997 May–Jun;16(3):146–50

Health law 2000: regulation, litigation, or strangulation? Boyd J, et al. **Health Aff (Millwood)** 1996 Fall;15(3):31–4

Politics and compromise: Senator Jim Jeffords [interview by John K. Iglehart] Jeffords J. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):82–90

'Health law 2000': the legal system and the changing health care market. Sage WM. **Health Aff (Millwood)** 1996 Fall; 15(3):9–27

Speaking of personal responsibility and individual accountability.... Keigher SM. **Health Soc Work** 1996 Nov; 21(4):304–11 (9 ref.)

Campaign 1996. The lobbyists. Hudson T. **Hosp Health Netw** 1996 Oct 5;70(19):46, 48, 50–2

Campaign 1996. The incumbent. Hudson T. **Hosp Health Netw** 1996 Oct 5;70(19):36, 54

Kentucky tried reform [news] Hudson T. **Hosp Health Netw** 1997 Sep 5;71(17):30, 32

Campaign 1996. The main event. Johnson H. **Hosp Health Netw** 1996 Oct 5;70(19):34–5

Campaign 1996. The challenger. Meyer H. **Hosp Health Netw** 1996 Oct 5;70(19):37, 54

Campaign 1996. The scenarios. Meyer H. **Hosp Health Netw** 1996 Oct 5;70(19):38–40, 42–4, 54

Egging people on. Long–term care. Meyer H. **Hosp Health Netw** 1996 Oct 20;70(20):36–8

Out of Israel. We came, we saw, we coveted universal health insurance. Meyer H. **Hosp Health Netw** 1997 Apr 5; 71(7):62–64, 66, 68

Bank on it. Thrift, theft or confusion? Medical savings accounts may bring all three [news] Meyer H. **Hosp Health Netw** 1997 Feb 5;71(3):26, 28

Let the games begin ... again. Meyer H. **Hosp Health Netw** 1997 Jan 20;71(2):32–8

Twice bitten. Election commentary. Starr P. **Hosp Health Netw** 1996 Nov 20;70(22):26–7

One small step at a time [letter] Klein DH. **Inquiry** 1996 Fall;33(3):215

Changes in drug prescribing under the Public Health Reform Law—a survey of general practitioners' attitudes in East and West Germany [published erratum appears in Int J Clin Pharmacol Ther 1997 May;35(5):222] Himmel W, et al. **Int J Clin Pharmacol Ther** 1997 Apr;35(4):164–9

Well–healed: inside lobbying for health care reform, Part III. **Int J Health Serv** 1996;26(1):19–46 (30 ref.)

Extremely unbalanced: interest divergence and power disparities between clients and psychiatry. McCubbin M, et al. **Int J Law Psychiatry** 1996 Winter;19(1):1–25

The government's role in health care: seeking a proper balance. Elwood TW. **J Allied Health** 1996 Spring; 25(2):171–8

Expanding health insurance coverage for uninsured children: the next step in health care reform? Markus AR, et al. **J Am Board Fam Pract** 1997 Sep–Oct;10(5):363–9

'To dream the impossible dream...' [editorial] Meskin LH. **J Am Dent Assoc** 1996 Nov;127(11):1568, 1570, 1572

Welfare reform: a women's health perspective. Davis MF. **J Am Med Womens Assoc** 1996 Aug–Oct;51(4):166–70

Reform and reaction in Australian health policy. Gray G. **J Health Polit Policy Law** 1996 Fall;21(3):587–615

National health care reform: an idea whose time came and went. Hacker JS. **J Health Polit Policy Law** 1996 Winter; 21(4):647–96

Translating ideas into actions: entrepreneurial leadership in state health care reforms [see comments] Oliver TR, et al. **J Health Polit Policy Law** 1997 Jun;22(3):721–88 (98 ref.). Comment in: J Health Polit Policy Law 1997 Jun;22(3):879–96. Comment in: J Health Polit Policy Law 1997 Jun;22(3):897–906.

Health care reform and medical education [editorial] Ambrus JL, et al. **J Med** 1996;27(1–2):1–5

Medicare reform: a blueprint for action. Cross EB. **J Natl Med Assoc** 1997 Mar;89(3):208–12

Just an ACT [editorial] McIntyre RV. **J Okla State Med Assoc** 1997 Apr;90(4):131

Welfare reform: will it break the cycle of dependency? Velsor–Friedrich B. **J Pediatr Nurs** 1997 Feb;12(1):55–6

Bill important first step in reforming health insurance [news] **J Psychosoc Nurs Ment Health Serv** 1996 Nov;34(11):7

The impact of the NHS reforms 1991–1995: a review of research evidence. Robinson R. **J Public Health Med** 1996 Sep;18(3):337–42 (91 ref.)

Building health promotion into health care reform in Russia. Tillinghast SJ, et al. **J Public Health Med** 1996 Dec; 18(4):473–7

In practice: the NHS market in the United Kingdom. Health Policy Network of the National Health Service Consultant's Association and the National Health Service Support Federation. **J Public Health Policy** 1995; 16(4):452–91 (53 ref.)

Medicaid reform. Villarruel AM, et al. **J Soc Pediatr Nurs** 1996 Apr–Jun;1(1):43–5 (7 ref.)

Managed care as a target of distrust. Mechanic D. **JAMA** 1997 Jun 11;277(22):1810–1

Significant gains won in Congress [news] **Md Med J** 1996 Nov;45(11):904

President Clinton signs health care reform bill [news] **Md Med J** 1996 Oct;45(10):814–5

Health care fraud: your risk may be greater than you think. Friedman M. **Md Med J** 1996 Oct;45(10):825–6

HCACC: a payment system primer—uniform reimbursement system includes potential for physician fee regulation [news] Preston M, et al. **Md Med J** 1996 Nov;45(11):895–7

Ethics and trade: exports of unapproved pharmaceuticals and medical devices. Horton L. **Med Law** 1996;15(4):649–62

Reforms should reduce health care costs. Advocates assert 1993 tort reform legislation is not to be second–guessed [news] Swanson JG. **Mich Med** 1997 May;96(5):45–6

Do state licensing procedures discriminate against physicians using mental health services? One physician calls for reform [editorial] [see comments] Miles S. **Minn Med** 1997 Jan; 80(1):42–3, 45–6. Comment in: Minn Med 1997 Apr;80(4):6.

The Medicaid fray. Silversmith J. **Minn Med** 1996 Feb; 79(2):43–8

The Kassebaum–Kennedy bill—the limits of incrementalism. Kuttner R. **N Engl J Med** 1997 Jul 3;337(1):64–7

Health care reform stages a comeback in Massachusetts. McDonough JE, et al. **N Engl J Med** 1997 Jan 9; 336(2):148–51

New Year's resolutions for Washington [editorial] Slobodien HD. **N J Med** 1997 Jan;94(1):17–8

Health care reform should include worksite health promotion incentives. Chenoweth D. **Occup Health Saf** 1994 Oct; 63(10):141–3

Legislative seasons.... What lies ahead. Thompson DJ. **Pa Med** 1996 Sep;99(9):10–2

New law will end SSI, SSDI benefits for disability based on alcohol or drug abuse [news] **Psychiatr Serv** 1996 Jul; 47(7):779

Mental health reform in Georgia, 1992 to 1996 [see comments] Elliott RL. **Psychiatr Serv** 1996 Nov; 47(11):1205–11. Comment in: Psychiatr Serv 1997 Mar;48(3):400–1.

Integrating mental health into the Oregon Health Plan. McFarland BH, et al. **Psychiatr Serv** 1997 Feb;48(2):191–3

Step by step. Health–system reform finally progresses, incrementally. Ortolon K. **Tex Med** 1996 Nov;92(11):24–8

Rx: radical lawyerectomy. **W V Med J** 1997 Mar–Apr; 93(2):53

Pointing fingers and blaming others [letter; comment] Peterson JC. **W V Med J** 1997 Mar–Apr;93(2):51. Comment on: W V Med J 1997 Jan–Feb;93(1):354.

Women's health and health reform: who will deliver primary care to women? Hoffman E, et al. **Yale J Biol Med** 1996 Sep–Dec;68(5–6):201–6

[Quality assurance in public health insurance medical treatment—evaluation of the legal inclusions of section 135 abs. 2 SGB V.] Wienke A. **HNO** 1996 Jul;44(7):358–61 **(Ger)**

[Opinion on stage III of the health care structural reform and a 2nd bill to refocus self–government and self–responsibility in statutory health insurance] **Rehabilitation (Stuttg)** 1997 Feb;36(1):58–9 **(Ger)**

[Health center in the wave of health service reformation and decentralization of authority] Shigematsu T. **Nippon Koshu Eisei Zasshi** 1996 Aug;43(8):591–3 **(Jpn)**

[Presentation of the National Commission of Medical Arbitration (editorial)] Ramón–de la Fuente J. **Gac Med Mex** 1996 Jul–Aug;132(4):357–8 **(Spa)**

ORGANIZATION & ADMINISTRATION

Insurance regulation of providers that bear risk. Overbay A, et al. **Am J Law Med** 1996;22(2–3):361–87 (0 ref.)

Commentary: change. Middleman EL, et al. **Am J Med Qual** 1997 Spring;12(1):44–7 (6 ref.)

Meeting the challenge of change. Davis DD. **Am J Otolaryngol** 1996 Nov–Dec;17(6):364–7 (10 ref.)

Federal public health, semi–reinvented. Mullan F. **Am J Public Health** 1997 Jan;87(1):21–4

School–based health clinics: remaining viable in a changing health care delivery system. Brindis CD, et al. **Annu Rev Public Health** 1997;18:567–87 (26 ref.)

The German health system. Lessons for reform in the United States [see comments] Jackson JL. **Arch Intern Med** 1997 Jan 27;157(2):155–60 (31 ref.). Comment in: Arch Intern Med 1997 Aug 11–25;157(15):1773–4.

Outposts and regions. Kane E. **Br J Hosp Med** 1996 Jun 5–18;55(11):717–8

A proper role for organized medicine in a new era [editorial] Clough JD. **Cleve Clin J Med** 1997 May;64(5):232–3

Move to "more corporate" health care system may affect hospital donations. Stewart J. **CMAJ** 1997 Jul 15; 157(2):189–90

Privatizing Medicare: a battle of values. Cain HP 2nd. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):181–6

Universal health care coverage in the United States: barriers, prospects, and implications. Gorin S. **Health Soc Work** 1997 Aug;22(3):223–30 (80 ref.)

Attempts to decentralize in recent Brazilian health policy: issues and problems, 1988–1994. Araújo Júnior JL. **Int J Health Serv** 1997;27(1):109–24

Health care system reforms in western European countries: the relevance of health care organization. Elola J. **Int J Health Serv** 1996;26(2):239–51 (56 ref.)

Health as an irreversible part of the welfare state: Canadian government policy under the Tories. O'Neill MA. **Int J Health Serv** 1996;26(3):547–59 (41 ref.)

An analysis of nursing in context: the effects of current health policy. Antrobus S. **J Adv Nurs** 1997 Mar;25(3):447–53 (36 ref.)

Cancer education—the opportunities for the future. Schwarz R. **J Cancer Educ** 1997 Spring;12(1):28–31

"Community" as the ideal for health care reform [comment] Aday LA, et al. **J Health Polit Policy Law** 1997 Feb; 22(1):231–43. Comment on: J Health Polit Policy Law 1997 Feb;22(1):105–45. Comment on: J Health Polit Policy Law 1997 Feb;22(1):147–84. Comment on: J Health Polit Policy Law 1997 Feb;22(1):185–221.

New federalism and intergovernmental fiscal relationships: the implications for health policy [see comments] Anton TJ. **J Health Polit Policy Law** 1997 Jun;22(3):691–720 (38 ref.). Comment in: J Health Polit Policy Law 1997 Jun;22(3):879–96. Comment in: J Health Polit Policy Law 1997 Jun;22(3):897–906.

Markets, Medicare, and making do: business strategies after national health care reform. Martin CJ. **J Health Polit Policy Law** 1997 Apr;22(2):557–93 (90 ref.)

The Canadian health care system: development, reform, and opportunities for nurses. Attenborough R. **J Obstet Gynecol Neonatal Nurs** 1997 Mar–Apr; 26(2):229–34

Washington State reorganization: more of the story. Gebbie KM. **J Public Health Policy** 1997;18(2):188–218 (12 ref.)

Ideology drives health care reforms in Chile. Reichard S.

J Public Health Policy 1996;17(1):80–98
Organized labor and health reform: union interests and the Clinton plan. Weil LA. **J Public Health Policy** 1997; 18(1):30–48 (81 ref.)
Responsible choices for achieving reform of the American health system. Ellwood P, et al. **J Soc Health Syst** 1996; 5(2):15–28
TRICARE: implications for military executive management education—a review of current data [see comments] Texidor MS, et al. **Mil Med** 1996 Apr;161(4):217–20 (11 ref.). Comment in: Mil Med 1997 Jan;162(1):vii.
What went wrong with Clinton's health care reform? Sommer B. **N J Med** 1996 Oct;93(10):29–30
What is happening? [editorial] Anderson CA.
Nurs Outlook 1997 Jan–Feb;45(1):5–6
Health care reform and the labor market. Durán–Arenas L, et al. **Soc Sci Med** 1996 Sep;43(5):791–7 (12 ref.)
"Popular" health and the state: dialectics of the peace process in El Salvador. Smith–Nonini S. **Soc Sci Med** 1997 Mar; 44(5):635–45
Health system reforms—toward a framework for international comparisons [published erratum appears in Soc Sci Med 1996 Nov;43(10):III–IV] Twaddle AC.
Soc Sci Med 1996 Sep;43(5):637–54 (101 ref.)
Nursing and midwifery in Europe. Salvage J, et al.
WHO Reg Publ Eur Ser 1997;74:21–123 (32 ref.)
[Necessity to adapt the functioning of the Society of Physicians to medical and social change] Daher M.
J Med Liban 1996;44(4 Suppl):S21–7 **(Fre)**
[Ivory Coast modernizes its health system] Diarra J, et al.
Med Trop (Mars) 1996;56(4):333–8 (16 ref.) **(Fre)**
[Under the sign of change (speech on the occasion of the opening of classes] Rossier BC.
Rev Med Suisse Romande 1997 May;117(5):439–42 **(Fre)**
[The initial results of organizing epidemiological health surveillance in the transition to the territorial principle of medical support for the troops] Sibilev VI, et al.
Voen Med Zh 1996 Oct;317(10):11–2 **(Rus)**
[Collaboration between non-governmental organizations and governments for health sector reform] Dickson K.
Rev Panam Salud Publica 1997 Apr;1(4):324–9 (9 ref.) (Eng. Abstr.) **(Spa)**

STANDARDS

Approaches to quality assurance in Germany: a commentary [comment] Brenner G. **Am J Med Qual** 1997 Spring; 12(1):25–7. Comment on: Am J Med Qual 1997 Spring;12(1):19–24.
Emergency commitment and legislative reform in New Jersey. Kessen C. **Am J Orthopsychiatry** 1997 Jan; 67(1):123–33
Quality comes home [see comments] Berwick DM.
Ann Intern Med 1996 Nov 15;125(10):839–43. Comment in: Ann Intern Med 1997 May 15;126(10):835.
Recapturing justice in the managed care era. Moreno JD.
Camb Q Healthc Ethics 1996 Fall;5(4):493–9
Joint Commission International. Donahue KT, et al.
Jt Comm J Qual Improv 1997 Jan;23(1):71
Are medical savings accounts an effective insurance alternative? Halva K. **Minn Med** 1997 Jun;80(6):52–3
Reform in Georgia [letter; comment] Hester TW.
Psychiatr Serv 1997 Mar;48(3):400–1. Comment on: Psychiatr Serv 1996 Nov;47(11):1205–11.

STATISTICS & NUMERICAL DATA

Consumers ... the public's not in the know [news]
Hosp Health Netw 1996 Sep 20;70(18):13
Rural enrollment in MinnesotaCare. Yawn BP, et al.
Minn Med 1997 Apr;80(4):42–9

TRENDS

2001: an American health care odyssey. Hazzard WR.
Ann Intern Med 1997 Apr 15;126(8):658–9
The 46th annual John Stanley Coulter Lecture. Lessons from the great battle: health care reform, 1992–1994. Frank RG.
Arch Phys Med Rehabil 1997 Feb;78(2):120–4
Change for better? [editorial] Clemett R.
Aust N Z J Ophthalmol 1996 Nov;24(4):310–1
Primary care: opportunities and threats. What the changes mean. Groves T. **BMJ** 1997 Feb 8;314(7078):436–8
Health in China. From Mao to market reform. Hesketh T, et al. **BMJ** 1997 May 24;314(7093):1543–5
Executive summary. Martin S, et al. **Can J Public Health** 1996 Jan–Feb;87(1):I1–I56
Focus on health [editorial] Martin S.
Can J Public Health 1996 Jan–Feb;87(1):6–9
As hospitals shrink, consolidate or close, physicians are swept up in the turmoil. Baer N. **Can Med Assoc J** 1996 Oct 15;155(8):1166–9
A call for action from the National Forum on Health [editorial] [see comments] Watanabe M.
Can Med Assoc J 1997 Apr 1;156(7):999–1000. Comment in: CMAJ 1997 Jul 15;157(2):139.
The dark side of evidence–based medicine. Horwitz RI.
Cleve Clin J Med 1996 Oct;63(6):320–3
The trolley of trouble and toil. Kerin R. **Conn Med** 1997 Mar;61(3):171–3
A dermatologic diary. Portrait of a practice. Shelley WB, et al. **Cutis** 1997 Apr;59(4):181–2
Joseph M. Mathews oration. Changing times, hard times, time's a–wasting. Gathright JB Jr. **Dis Colon Rectum** 1997 Apr;40(4):385–7
Implications of United States healthcare reform for European cardiothoracic surgery [editorial] Skinner DB.
Eur J Cardiothorac Surg 1997 Apr;11(4):599–603
Continuing innovations for health. Shine KI. **FASEB J** 1997 May;11(6):398–403 (11 ref.)
Market meditopia. A glimpse at American health care in 2005. Churchill LR. **Hastings Cent Rep** 1997 Jan–Feb; 27(1):5–6
Health system change: skirmish or revolution? [comment] Reinhardt UE. **Health Aff (Millwood)** 1996 Winter; 15(4):114–5. Comment on: Health Aff (Millwood) 1996 Winter;15(4):93–104.
A social contract for 21st century health care: three–tier health care with bounty hunting [editorial] Reinhardt UE.
Health Econ 1996 Nov–Dec;5(6):479–99 (45 ref.)
Half empty or half full, it will be a smaller glass [editorial] Detmer DE. **Inquiry** 1997 Spring;34(1):8–10
Beyond ideology: the emerging roles of New Zealand's crown health enterprises. Barnett P, et al.
Int J Health Serv 1997;27(1):89–108
Policy and ideology: the politics of post–reform health policy in the United Kingdom. Fierlbeck K. **Int J Health Serv** 1996;26(3):529–46 (43 ref.)
The ghost of health services past: comparing British health policy of the 1930s with the 1980s and 1990s. Powell MA.
Int J Health Serv 1996;26(2):253–68 (80 ref.)
The future of health care in six European countries: the views of policy elites. Taylor–Gooby P. **Int J Health Serv** 1996; 26(2):203–19
Health status assessment: the integrating force of US market–based reform [see comments] Lansky D.
Int J Qual Health Care 1996 Apr;8(2):111–3. Comment in: Int J Qual Health Care 1996 Apr;8(2):115–23.
Megatrends in professional regulation—towards the year 2000. Cutshall P. **Int Nurs Rev** 1996 Jul–Aug;43(4):110–2
The impact of the commissioning agenda upon nursing practice: a proactive approach to influencing health policy. Antrobus S, et al. **J Adv Nurs** 1997 Feb;25(2):309–15
Health promotion across the continuum: challenges for the future of cardiovascular nursing [see comments] Fleury J, et al. **J Cardiovasc Nurs** 1996 Oct;11(1):14–26. Comment in: J Cardiovasc Nurs 1996 Oct;11(1):v–vii.
The perversion of health care: from a social good to a commodity. Kilwein JH. **J Clin Pharm Ther** 1996 Oct; 21(5):285–7
The new politics of U.S. health policy. Hacker JS, et al.
J Health Polit Policy Law 1997 Apr;22(2):315–38 (43 ref.)
Determinants of profound organizational change: choice of conversion or closure among rural hospitals. Alexander JA, et al. **J Health Soc Behav** 1996 Sep;37(3):238–51 (48 ref.)
Managed health care ideology—capitalism or communism? Nirschl RP. **J Med Assoc Ga** 1996 Sep;85(3):172–3
A world of opportunities [editorial] Betz CL.
J Pediatr Nurs 1996 Feb;11(1):1–2
Health reform for the 21st century? It may have to wait until the 21st century. Budetti PP. **JAMA** 1997 Jan 15; 277(3):193–8
A piece of my mind. Seeds of reform. Reifler BV.
JAMA 1997 Apr 2;277(13):1021
Overview: performance measures—the next generation. Lansky D. **Jt Comm J Qual Improv** 1996 Jul;22(7):439–42
Health care reform and quality of care [editorial] Van der Weyden MB. **Med J Aust** 1996 Dec 2–16;165(11–12):595–6
Mechanics of medicine need changing. Larson WL.
Mich Med 1996 Feb;95(2):10–1
A new paradigm for continuing medical education. Implications for North Carolina in an age of change in health care delivery. Leist JC, et al. **N C Med J** 1996 May–Jun;57(3):148–9
Medical education and health care reform. From Osler to AHEC. McMillan WO Jr. **N C Med J** 1996 May–Jun; 57(3):142–4; discussion 144–5
Health care reform in the new South Africa [see comments] Benatar SR. **N Engl J Med** 1997 Mar 20;336(12):891–5. Comment in: N Engl J Med 1997 Jul 24;337(4):281–2.
Interview with George R. Laufenberg [interview by Bill Berlin] Laufenberg GR. **N J Med** 1996 May;93(5):19–21
Is health care an issue in next month's election? Rebovich DP. **N J Med** 1996 Oct;93(10):25–7
Keeping pace with medicine's changes [interview by Darlene D. McClendon] Woods A. **Pa Med** 1996 Sep;99(9):28–9
The architecture of conflict [editorial; comment] Gaudiani VA. **Pharos** 1997 Winter;60(1):37. Comment on: Pharos 1997 Winter;60(1):2–6. Comment on: Pharos 1997 Winter;60(1):13–6. Comment on: Pharos 1997 Winter;60(1):32–4.
An economic analysis of health care reform and its implications for plastic surgery. Pearl RM, et al.
Plast Reconstr Surg 1997 Jan;99(1):1–9
An impression of the future of academic and tertiary medicine in the new South Africa [editorial] O'Keefe SJ.
S Afr Med J 1996 Nov;86(11):1384–5
Health sector reform: lessons from China. Bloom G, et al.
Soc Sci Med 1997 Aug;45(3):351–60 (45 ref.)
Staying single in the 1990s: single–handed practitioners in the new National Health Service. Lunt N, et al.
Soc Sci Med 1997 Aug;45(3):341–9 (47 ref.)
Community partnerships work. Selden ST, et al.
Va Med Q 1997 Summer;124(3):147–8 (2 ref.)
Academic physicians, clinical investigators, and managed care. Whither Hippocrates? [see comments] Bennett WM.
West J Med 1996 Oct;165(4):241–4. Comment in: West J Med 1997 Feb;166(2):156.
HMOs and academic medicine: are they both deaf to patients? [letter; comment] Cotler MP. **West J Med** 1997 Feb; 166(2):156. Comment on: West J Med 1996 Oct;165(4):241–4.
Managed, unmanaged or mismanaged care? [editorial] Thurrell RJ. **Wis Med J** 1996 Apr;95(4):228–9
[Delivery of public health services. Proposal for a frame of reference] Morin R, et al. **Can J Public Health** 1996 Jan–Feb;87(1):32–6 (Eng. Abstr.) **(Fre)**
[Social health insurance for all: can we learn from Japan?] Busse R. **Gesundheitswesen** 1997 Jul;59(7):434–40 (Eng. Abstr.) **(Ger)**
[Research in gynecology today (editorial)] Schneider H.
Gynakol Geburtshilfliche Rundsch 1996;36(4):183–7 **(Ger)**
[Quality assurance in medicine. Current status, future requirements] Künzel U. **Herz** 1996 Dec;21(6):341–6 (41 ref.) (Eng. Abstr.) **(Ger)**
[Public health reforms in the CIS countries] Gerzmava OKh.
Probl Sotsialnoi Gig Istor Med 1996 Sep–Oct;(5):12–5 (Eng. Abstr.) **(Rus)**
[The development of the nongovernmental public health sector in a transitional economy] Golukhov GN, et al.
Probl Sotsialnoi Gig Istor Med 1996 Nov–Dec;(6):25–31 (Eng. Abstr.) **(Rus)**
[The necessity for structural changes and their medico–economic trends in public health] Ovcharov VK, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jul–Aug; (4):24a–32 (Eng. Abstr.) **(Rus)**
[Regional characteristics in the development of and structural changes in public health] Ovcharov VK.
Probl Sotsialnoi Gig Istor Med 1996 Jul–Aug;(4):39–40a (Eng. Abstr.) **(Rus)**
[The conceptual trends in the development of a model of primary health care in Ukraine under the current conditions] Prodanchuk NG, et al.
Probl Sotsialnoi Gig Istor Med 1994 Sep–Oct;(5):23–5 (Eng. Abstr.) **(Rus)**
[The transformation of the public health system in the USA in the context of the global reform process] Rice JA.
Probl Sotsialnoi Gig Istor Med 1996 Jul–Aug;(4):47–52 **(Rus)**
[Public health reforms in the countries of central and eastern Europe—how they see them from western Europe] Shchepin OL, et al. **Probl Sotsialnoi Gig Istor Med** 1994 Sep–Oct;(5):39–41 **(Rus)**
[The process of public health reform in Sweden] Zhiliaeva EP. **Probl Sotsialnoi Gig Istor Med** 1994 Sep–Oct;(5):41–4 **(Rus)**
[The dental service under the new management conditions in light of the realization of the program of the Stomatology Association (All–Russian), A Strategy for the Development of Stomatology in Russia] Leont'ev VK.
Stomatologiia (Mosk) 1996;Spec No:7–11 **(Rus)**
[Dental care for children during the transition to market relationships] Obraztsov IuL. **Stomatologiia (Mosk)** 1996; Spec No:28–9 **(Rus)**
[Public health facing reforms in the health system] Manzanera R, et al. **Gac Sanit** 1996 Nov–Dec;10(57):299–310 **(Spa)**
[Gynecology and obstetrics and the health system reform in Mexico] Espinosa de los Reyes–S VM.
Ginecol Obstet Mex 1996 Jul;64:343–6 (Eng. Abstr.) **(Spa)**

HEALTH CARE RESEARCH see **HEALTH SERVICES RESEARCH**

HEALTH CARE SEEKING BEHAVIOR see **PATIENT ACCEPTANCE OF HEALTH CARE**

HEALTH CARE SURVEYS

Fellowship training programs in blood banking and transfusion medicine: results of a national survey. Domen RE, et al. **Am J Clin Pathol** 1996 Nov;106(5):584–7
Patient satisfaction with pharmaceutical services at independent and chain pharmacies. Briesacher B, et al.
Am J Health Syst Pharm 1997 Mar 1;54(5):531–6
ASHP oncology pharmacy work force survey. Witmer DR, et al. **Am J Health Syst Pharm** 1997 Feb 15;54(4):434–6
Detecting pediatric nosocomial infections: how do infection control and quality assurance personnel compare? Simonds DN, et al. **Am J Infect Control** 1997 Jun;25(3):202–8
The changing supply of renal physicians. Kletke PR.
Am J Kidney Dis 1997 May;29(5):781–92
Survey reactions: a grim prognosis for health care?
Am J Nurs 1996 Nov;96(11):40–4
Where have all the nurses gone? Final results of our Patient Care Survey. Shindul–Rothschild J, et al. **Am J Nurs** 1996 Nov;96(11):25–39
Neonatal intensive care provision in the United Kingdom 1992–3. British Association of Perinatal Medicine. Milligan DW. **Arch Dis Child Fetal Neonatal Ed** 1997 May; 76(3):F197–200
The ambulatory workload of office–based neurologists: implications of the National Ambulatory Medical Care Survey. Menken M. **Arch Neurol** 1996 Apr;53(4):379–81
A national survey to understand why physicians defer childhood immunizations. Zimmerman RK, et al.
Arch Pediatr Adolesc Med 1997 Jul;151(7):657–64
Home versus hospital deliveries: follow up study of matched

pairs for procedures and outcome. Zurich Study Team [see comments] Ackermann-Liebrich U, et al. **BMJ** 1996 Nov 23;313(7068):1313-8. Comment in: BMJ 1996 Nov 23;313(7068):1276-7.
Prospective regional study of planned home births. Home Birth Study Steering Group [see comments] Davies J, et al. **BMJ** 1996 Nov 23;313(7068):1302-6. Comment in: BMJ 1996 Nov 23;313(7068):1276-7. Comment in: BMJ 1997 Mar 1;314(7081):678.
Outcome of planned home and planned hospital births in low risk pregnancies: prospective study in midwifery practices in The Netherlands [see comments] Wiegers TA, et al. **BMJ** 1996 Nov 23;313(7068):1309-13. Comment in: BMJ 1996 Nov 23;313(7068):1276-7.
Current practices of preoperative bowel preparation among North American colorectal surgeons. Nichols RL, et al. **Clin Infect Dis** 1997 Apr;24(4):609-19
The consumer health plan value survey: round two. Allen HM Jr, et al. **Health Aff (Millwood)** 1997 Jul-Aug; 16(4):156-66
State trends in hospital uncompensated care. Atkinson G, et al. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):233-41
What types of hospitals form the safety net? Fishman LE. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):215-22
A profile of uncompensated hospital care, 1983-1995. Mann JM, et al. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):223-32
Academic health centers in competitive markets. Reuter J, et al. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):242-52
Citizens' views on health care systems in the 15 member states of the European Union [editorial] Mossialos E. **Health Econ** 1997 Mar-Apr;6(2):109-16
Management of hepatitis C: a national survey of gastroenterologists and hepatologists. Everhart JE, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):78S-82S (2 ref.)
Physicians ... patients spend more time in the waiting room [news] **Hosp Health Netw** 1997 Sep 5;71(17):26
Consumers ... Oh, my aching Scranton-Wilkes-Barre-Hazleton [news] **Hosp Health Netw** 1997 Mar 5;71(5):17
The 1997 Hospitals & Health Networks leadership survey. Greene J. **Hosp Health Netw** 1997 Aug 5;71(15):26-30, 32-6, 38-40
The Medical Expenditure Panel Survey: a national health information resource. Cohen JW, et al. **Inquiry** 1996-97 Winter;33(4):373-89
Treatment planning for adenocarcinoma of the rectum and sigmoid: a patterns of care study. PCS Committee. Kline RW, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15; 37(2):305-11 (3 ref.)
The provision of psychiatric care in southern Italy. Results from the 'Psychiatry in Southern Italy's Services' (De PISIS) survey. Marino S, et al. **Int J Soc Psychiatry** 1996 Autumn;42(3):181-92
Heterogeneity of care for HIV-infected individuals decreases with the physician knowledge. Pattullo AL, et al. **Int J STD AIDS** 1996 Oct;7(6):435-8
Practice styles and preferences of ASCRS members--1996 survey [see comments] Leaming DV. **J Cataract Refract Surg** 1997 May;23(4):527-35. Comment in: J Cataract Refract Surg 1997 May;23(4):457.
Antimicrobial agents rationale and monitoring in an Italian hospital. De Lalla F. **J Chemother** 1996 Oct;8(5):342-50
Lessons for the laboratory from a general practitioner survey. Boyde AM, et al. **J Clin Pathol** 1997 Apr;50(4):283-7
Patients' views on reference to clinical data. Hamajima N, et al. **J Epidemiol** 1997 Mar;7(1):17-9
How Americans perceive the health care system: a report on a national survey. National Coalition on Health Care. **J Health Care Finance** 1997 Summer;23(4):12-20
Eye on patients: excerpts from a report on patients' concerns and experiences about the health care system. American Hospital Association and the Picker Institute. **J Health Care Finance** 1997 Summer;23(4):2-11
Epilepsy patients: health status and medical consumption. Donker GA, et al. **J Neurol** 1997 Jun;244(6):365-70
Pediatric rheumatology clinic populations in the United States: results of a 3 year survey. Pediatric Rheumatology Database Research Group. Bowyer S, et al. **J Rheumatol** 1996 Nov;23(11):1968-74
Relationship between National Institutes of Health research awards to US medical schools and managed care market penetration. Moy E, et al. **JAMA** 1997 Jul 16;278(3):217-21
Funding for patient-oriented research. Critical strain on a fundamental linchpin. Williams GH, et al. **JAMA** 1997 Jul 16;278(3):227-31
Using clinical and functional data for quality improvement in outcomes measurement consortia. Kania C, et al. **Jt Comm J Qual Improv** 1996 Jul;22(7):492-504
Understanding the quality challenge for health consumers: the Kaiser/AHCPR Survey. Robinson S, et al. **Jt Comm J Qual Improv** 1997 May;23(5):239-44
Family care in the United States. A national profile. Doescher MP, et al. **Med Care** 1997 Jun;35(6):564-73
Accuracy of homeless adults' self-reports. Gelberg L, et al. **Med Care** 1997 Mar;35(3):287-90
Results of a survey of infectious disease testing practices by organ procurement organizations in the United States. Domen RE, et al. **Transplantation** 1997 Jun 27; 63(12):1790-4
National hospital discharge survey: annual summary, 1994. Graves EJ, et al. **Vital Health Stat 13** 1997 May;(128):i-v; 1-50
The National Home and Hospice Care Survey: 1994 summary. Jones A, et al. **Vital Health Stat 13** 1997 Feb; (126):1-124 (13 ref.)
Diabetic Retinopathy Project. Blustein JN, et al. **Wis Med J** 1997 Jan;96(1):60-1

HISTORY

Canadian health surveys, 1950 1997. Kendall O, et al. **Chronic Dis Can** 1997;18(2):70-90

METHODS

Validity of clinical information from a maternity survey. Meng YY, et al. **Am J Med Qual** 1997 Fall;12(3):160-4
Can different patient satisfaction survey methods yield consistent results? Comparison of three surveys [see comments] Cohen G, et al. **BMJ** 1996 Oct 5; 313(7061):841-4. Comment in: BMJ 1996 Oct 5;313(7061):832-3. Comment in: BMJ 1997 Jan 18;314(7075):227.
A southern Illinois eyecare provider survey. Bruninga HJ, et al. **CLAO J** 1997 Apr;23(2):138-44
Evaluation of general practice care by chronically ill patients: effect of the method of administration. Wensing M, et al. **Fam Pract** 1996 Aug;13(4):386-90
Patient surveys. If you liked the food, press 1. Serb C. **Hosp Health Netw** 1997 Apr 5;71(7):99
"Best hospitals": a description of the methodology for the Index of Hospital Quality. Hill CA, et al. **Inquiry** 1997 Spring;34(1):80-90
Aspects of patient satisfaction with communication in surgical care: confirming qualitative feedback through quantitative methods. Meredith P, et al. **Int J Qual Health Care** 1996 Jun;8(3):253-64
Focus groups in mental health research: enhancing the validity of user and provider questionnaires. Powell RA, et al. **Int J Soc Psychiatry** 1996 Autumn;42(3):193-206
Are "America's Best Hospitals" America's best? [letter; comment] Glied S, et al. **JAMA** 1997 Aug 13;278(6):473-4; discussion 474-5. Comment on: JAMA 1997 Apr 9;277(14):1152-5.
Are "America's Best Hospitals" America's best? [letter; comment] Goldschmidt PG. **JAMA** 1997 Aug 13; 278(6):474; discussion 474-5. Comment on: JAMA 1997 Apr 9;277(14):1152-5.
In search of America's best hospitals. The promise and reality of quality assessment [see comments] Green J, et al. **JAMA** 1997 Apr 9;277(14):1152-5. Comment in: JAMA 1997 Aug 13;278(6):473; discussion 474-5. Comment in: JAMA 1997 Aug 13;278(6):473-4; discussion 474-5. Comment in: JAMA 1997 Aug 13;278(6):474; discussion 474-5.
Are "America's Best Hospitals" America's best? [letter; comment] Hartz A, et al. **JAMA** 1997 Aug 13;278(6):473; discussion 474-5. Comment on: JAMA 1997 Apr 9;277(14):1152-5.
Are "America's Best Hospitals" America's best? [letter; comment] Hill CA, et al. **JAMA** 1997 Aug 13;278(6):473; discussion 474-5. Comment on: JAMA 1997 Apr 9;277(14):1152-5.
Consumer surveys of health plan performance: a comparison of content and approach and a look to the future. Allen HM Jr, et al. **Jt Comm J Qual Improv** 1996 Dec; 22(12):775-94 (26 ref.)
Measuring seriousness of hospital quality of care issues. Sales A, et al. **Jt Comm J Qual Improv** 1996 Dec;22(12):811-6
The development of an instrument for assessing the quality of life of people with diabetes. Diabetes-39. Boyer JG, et al. **Med Care** 1997 May;35(5):440-53
Assessing inner-city patients' hospital experiences. A controlled trial of telephone interviews versus mailed surveys. Harris LE, et al. **Med Care** 1997 Jan;35(1):70-6
The use of significant others as proxy raters of the quality of life of patients with brain cancer. Sneeuw KC, et al. **Med Care** 1997 May;35(5):490-506
When do the "dollars" make sense? Toward a conceptual framework for contingent valuation studies in health care. O'Brien B, et al. **Med Decis Making** 1996 Jul-Sep; 16(3):288-99 (49 ref.)
Clinical practice improvement: a new methodology for outcomes research. Horn SD. **Nutrition** 1996 May; 12(5):384-5

STANDARDS

Defining primary care. Empirical analysis of the National Ambulatory Medical Care Survey. Franks P, et al. **Med Care** 1997 Jul;35(7):655-68
An evaluation of the impact of nonresponse bias on patient satisfaction surveys. Lasek RJ, et al. **Med Care** 1997 Jun; 35(6):646-52
Reliability of self-reported breast screening information in a survey of lower income women. Vacek PM, et al. **Prev Med** 1997 May-Jun;26(3):287-91

STATISTICS & NUMERICAL DATA

Respiratory health services reported by U.S. mining facilities in the National Occupational Health Survey of Mining (1984-1989). Linch KD, et al. **Am J Ind Med** 1996 Sep; 30(3):273-80
Patterns of care for cancer of the larynx in the United States. Shah JP, et al. **Arch Otolaryngol Head Neck Surg** 1997 May;123(5):475-83
The structure of radiation oncology in the United States in 1994. Owen JB, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1;39(1):179-85
The question remains: oncology and primary care [letter; comment] Holcombe RF. **J Clin Oncol** 1997 Mar; 15(3):1285-6. Comment on: J Clin Oncol 1996 Sep;14(9):2612-21.
[Daily survey of procedures as markers of resources utilization] Iapichino G, et al. **Minerva Anestesiol** 1996 Sep; 62(9):289-96 (Eng. Abstr.) **(Ita)**
[Variability of physician changing requests in primary care of Insalud:a preliminary study] García Marco C. **Rev Esp Salud Publica** 1996 May-Jun;70(3):271-81 (Eng. Abstr.) **(Spa)**

HEALTH CARE SYSTEMS see **DELIVERY OF HEALTH CARE**

HEALTH CARE TEAM see **PATIENT CARE TEAM**

HEALTH CENTERS, AMBULATORY see **AMBULATORY CARE FACILITIES**

HEALTH COSTS, EMPLOYER see **EMPLOYER HEALTH COSTS**

HEALTH DIARIES see **MEDICAL RECORDS**

HEALTH EDUCATION

see related
HEALTH PROMOTION

An emergency medicine approach to violence throughout the life cycle. SAEM Public Health and Education Committee [see comments] Muelleman RL, et al. **Acad Emerg Med** 1996 Jul;3(7):708-15 (74 ref.). Comment in: Acad Emerg Med 1996 Jul;3(7):651-2.
A successful university-school-district partnership to help San Francisco's K-12 students learn about science and medicine. Clark MR. **Acad Med** 1996 Sep;71(9):950-6
Knowledge and attitudes of teachers towards epilepsy in Zimbabwe. Mielke J, et al. **Acta Neurol Scand** 1997 Sep; 96(3):133-7
Serum cholesterol levels in school-aged Japanese children: the Hisayama study. Fukushige J, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):22-7
Knowledge and practice of residents about malaria in southeast Iran (1994). Zaim M, et al. **Acta Trop** 1997 Apr 15;64(3-4):123-30
Qualitative development of smoking prevention programming for minority youth. Parker VC, et al. **Addict Behav** 1996 Jul-Aug;21(4):521-5
Crackdown on drugs [news] **Addiction** 1996 Aug;91(8):1240
Conversation with Albert Tuyns [interview] **Addiction** 1996 Jan;91(1):17-33
Alcohol misuse prevention for young people: a systematic review reveals methodological concerns and lack of reliable evidence of effectiveness. Foxcroft DR, et al. **Addiction** 1997 May;92(5):531-7 (45 ref.)
The social impact of Life Education: estimating drug use prevalence among Victorian primary school students and the statewide effect of the Life Education programme. Hawthorne G. **Addiction** 1996 Aug;91(8):1151-9
Educational approaches. Montonen M. **Addiction** 1997 Mar; 92 Suppl 1:S121-5
From research to policy: when cutting edge meets coalface. Richmond R. **Addiction** 1996 Jan;91(1):35-7
A critique of Hawthorne et al.'s evaluation of life education [letter; comment] Wallace S. **Addiction** 1996 Feb; 91(2):286-291. Comment on: Addiction 1995 Feb;90(2):205-15.
Reproductive health awareness: an integrated approach to obtaining a high quality of health. Marshall M, et al. **Adv Contracept** 1997 Jun-Sep;13(2-3):313-8 (0 ref.)
Behavioral interventions for reduction of sexually transmitted disease/HIV transmission among female commercial sex workers and clients in Bali, Indonesia. Ford K, et al. **AIDS** 1996 Feb;10(2):213-22
AIDS education programme in Colombian medical schools: training the teachers [letter] Garcia-Bernard R, et al. **AIDS** 1997 Mar 15;11(4):554-5
Decreased incidence of sexually transmitted diseases among trucking company workers in Kenya: results of a behavioural risk-reduction programme. Jackson DJ, et al. **AIDS** 1997 Jun;11(7):903-9
Health education. Vancouver Conference Review. Aggleton P. **AIDS Care** 1997 Feb;9(1):35-9
An epidemic of apprehension: questions about HIV/AIDS to an east African newspaper health advice column. Asera R, et al. **AIDS Care** 1997 Feb;9(1):5-12
Reflections on the 9th International Conference on AIDS Education-- Interventions in Multi-cultural Societies, Israel 25 November-1 December, 1995. Vowles D. **AIDS Care** 1996 Apr;8(2):241-2
AIDS knowledge, teaching comfort, and support for AIDS education among school teachers: a statewide survey. Boscarino JA, et al. **AIDS Educ Prev** 1996 Jun;8(3):267-77
Needs assessment for an urban native HIV and AIDS prevention program. Brassard P, et al. **AIDS Educ Prev** 1996 Aug;8(4):343-51
Children's AIDS-related knowledge and attitudes: variations

by grade, race, gender, socioeconomic status, and size of community. Kistner J, et al. **AIDS Educ Prev** 1997 Jun; 9(3):285–98

Assigning new meanings to traditional literature: illustrations for HIV educators. Leoutsakas D. **AIDS Educ Prev** 1996 Aug;8(4):375–80

Assessing the impact of HIV risk reduction counseling in impoverished African American women: a structural equations approach. Nyamathi AM, et al. **AIDS Educ Prev** 1997 Jun;9(3):253–73

Children's understanding of the symptoms of AIDS. Shoemaker MR, et al. **AIDS Educ Prev** 1996 Oct; 8(5):403–14

The role of psychosocial assessment and support in occupational exposure management. Tannebaum J, et al. **AIDS Educ Prev** 1997 Jun;9(3):275–84

HIV counseling and testing: its evolving role in HIV prevention. Valdiserri RO. **AIDS Educ Prev** 1997 Jun;9(3 Suppl):2–13 (42 ref.)

Has awareness of the alcohol warning label reached its upper limit? Hankin JR, et al. **Alcohol Clin Exp Res** 1996 May; 20(3):440–4

Effectiveness of a high school alcohol misuse prevention program. Shope JT, et al. **Alcohol Clin Exp Res** 1996 Aug; 20(5):791–8

Pollen counts in the television media. Giberson JE, et al. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):19–21

Article sends wrong message [letter; comment] Robison J. **Altern Ther Health Med** 1997 Mar;3(2):16, 18. Comment on: Altern Ther Health Med 1996 Nov;2(6):32–8.

Rural physicians as educators: why take on another job? Crouse BJ, et al. **Am Fam Physician** 1996 Oct;54(5):1457–60

Breast feeding and other aspects of infant nutrition [letter; comment] Umhau JC. **Am Fam Physician** 1997 Feb 15; 55(3):785. Comment on: Am Fam Physician 1996 Jul;54(1):138–44.

Meeting national cholesterol education goals in clinical practice—a comparison of lovastatin and fluvastatin in primary prevention. Nash DT. **Am J Cardiol** 1996 Sep 26; 78(6A):26–31

The pharmacist as a health education coordinator. Hawkins PR. **Am J Health Syst Pharm** 1997 Jul 1;54(13):1497–9

Smoking's challenge to pharmacy [editorial] Talley CR. **Am J Health Syst Pharm** 1996 Jan 1;53(1):41

Immunization [editorial] Talley CR. **Am J Health Syst Pharm** 1996 Jun 1;53(11):1273

Safe milk, tub baths, and relative risk. [commentary] Mauss IH. **Am J Ind Med** 1996 Mar;29(3):282

A community waterborne outbreak of salmonellosis and the effectiveness of a boil water order. Angulo FJ, et al. **Am J Public Health** 1997 Apr;87(4):580–4

Annotation: developing and validating new methods for assessing community interventions [comment] Cassano PA, et al. **Am J Public Health** 1997 Feb;87(2):157–8. Comment on: Am J Public Health 1997 Feb;87(2):181–5. Comment on: Am J Public Health 1997 Feb;87(2):186–91. Comment on: Am J Public Health 1997 Feb;87(2):272–5.

New directions for community intervention studies [editorial; comment] Feinleib M. **Am J Public Health** 1996 Dec; 86(12):1696–8. Comment on: Am J Public Health 1996 Dec;86(12):1773–9.

Learning to recognize scarring among intravenous drug users: a tool for HIV risk reduction [letter] Horowitz HW. **Am J Public Health** 1997 Jul;87(7):1233–4

Annotation: HIV prevention challenges–realistic strategies and early detection programs. Rotheram–Borus MJ. **Am J Public Health** 1997 Apr;87(4):544–6

The long–term effects of a cardiovascular disease prevention trial: the Stanford Five–City Project [see comments] Winkleby MA, et al. **Am J Public Health** 1996 Dec; 86(12):1773–9. Comment in: Am J Public Health 1996 Dec;86(12):1696–8.

Prophylaxis of acute viral hepatitis by immune serum globulin, hepatitis B vaccine, and health education: a sixteen year study of Japan overseas cooperation volunteers. Ohara H, et al. **Am J Trop Med Hyg** 1997 Jan; 56(1):76–9

Development and evaluation of a health education intervention against Taenia solium in a rural community in Mexico. Sarti E, et al. **Am J Trop Med Hyg** 1997 Feb; 56(2):127–32

Community–based nutrition interventions: reaching adolescents from low–income communities. Hinkle AJ. **Ann N Y Acad Sci** 1997 May 28;817:83–93 (13 ref.)

School–based programs for health–risk reduction. Nicklas TA, et al. **Ann N Y Acad Sci** 1997 May 28;817:208–24 (37 ref.)

Lyme disease: public education key to appropriate care [letter; comment] Nahass RG, et al. **Arch Intern Med** 1997 Mar 24;157(6):697, 700. Comment on: Arch Intern Med 1996 Jul 22;156(14):1493–500.

Effect of education and legislation on bicycle helmet use in a multiracial population. Abularrage JJ, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):41–4

Lipoprotein lipid response to the National Cholesterol Education Program step II diet by hypercholesterolemic and combined hyperlipidemic women and men. Walden CE, et al. **Arterioscler Thromb Vasc Biol** 1997 Feb; 17(2):375–82

Arguments for and against teaching suicide prevention in schools. Hazell P, et al. **Aust N Z J Psychiatry** 1996 Oct; 30(5):633–42 (59 ref.)

Evaluating AIDS–related social skills in Anglo and Latino adolescents. Focus on assessment. Blumberg EJ, et al. **Behav Modif** 1997 Jul;21(3):281–307

Public information and vaccination policy. Salisbury DM. **Biologicals** 1997 Jun;25(2):241

Facial disfigurement. Counselling is important in healing the whole patient [letter; comment] Edwards D. **BMJ** 1997 Jul 12;315(7100):120. Comment on: BMJ 1997 Apr 5;314(7086):991.

Facial disfigurement. Both counselling for patients and education for the public are necessary [letter; comment] Partridge J. **BMJ** 1997 Jul 12;315(7100):120. Comment on: BMJ 1997 Apr 5;314(7086):991.

Ultraviolet radiation and primary school children [letter; comment] Lyon CC, et al. **Br J Dermatol** 1997 May; 136(5):799–800. Comment on: Br J Dermatol 1996 Jun;134(6):1030–4.

Fighting schizophrenia and its stigma. A new World Psychiatric Association educational programme [editorial] Sartorius N. **Br J Psychiatry** 1997 Apr;170:297

Community knowledge of mental illness and reaction to mentally ill people. Wolff G, et al. **Br J Psychiatry** 1996 Feb;168(2):191–8

Community attitudes to mental illness [see comments] Wolff G, et al. **Br J Psychiatry** 1996 Feb;168(2):183–90. Comment in: Br J Psychiatry 1996 May;168(5):652.

Treatment advances—when and how to inform the public? Deighton C, et al. **Br J Rheumatol** 1996 Nov;35(11):1175–7

The librarian's role in the provision of consumer health information and patient education. Medical Library Association. Consumer and Patient Health Information Section (CAPHIS/MLA). **Bull Med Libr Assoc** 1996 Apr; 84(2):238–9

Los Angeles Free–Net: an experiment in interactive telecommunication between lay members of the Los Angeles community and health care experts [see comments] Bluming A, et al. **Bull Med Libr Assoc** 1996 Apr; 84(2):217–22. Comment in: Bull Med Libr Assoc 1996 Apr;84(2):206–8.

Public empowerment through accessible health information. Calvano M, et al. **Bull Med Libr Assoc** 1996 Apr; 84(2):253–6

Intellectual property and networked health information: issues and principles [see comments] Cate FH. **Bull Med Libr Assoc** 1996 Apr;84(2):229–36. Comment in: Bull Med Libr Assoc 1996 Apr;84(2):206–8.

A comparison of health information on Florida's free–nets. Clark DE. **Bull Med Libr Assoc** 1997 Jul;85(3):239–44

Consumer health information demand and delivery: implications for libraries [see comments] Deering MJ, et al. **Bull Med Libr Assoc** 1996 Apr;84(2):209–16. Comment in: Bull Med Libr Assoc 1996 Apr;84(2):206–8.

Health information–seeking behavior and older African American women. Gollop CJ. **Bull Med Libr Assoc** 1997 Apr;85(2):141–6

An electronic consumer health library: NetWellness. Guard R, et al. **Bull Med Libr Assoc** 1996 Oct;84(4):468–77

Consumer health information partnerships: the health science library and multitype library system. Hollander S. **Bull Med Libr Assoc** 1996 Apr;84(2):247–52

Mapping the literature of health education. Schloman BF. **Bull Med Libr Assoc** 1997 Jul;85(3):278–83

Community promotion and dissemination of programs to prevent cervical cancer. Castañeda Camey X, et al. **Bull Pan Am Health Organ** 1996 Dec;30(4):394–6

Sustainability of a water, sanitation and hygiene education project in rural Bangladesh: a 5–year follow–up. Hoque BA, et al. **Bull World Health Organ** 1996;74(4):431–7

How a print resource on policy change was used by community and public health practitioners. Badovinac K. **Can J Public Health** 1997 Mar–Apr;88(2):85–6

Cognition and technology in health education research. Patel VL. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S63–7

Prison AIDS project focuses on peer education [news] **Can Med Assoc J** 1997 May 1;156(9):1261

American Indian women's talking circle. A cervical cancer screening and prevention project. Hodge FS, et al. **Cancer** 1996 Oct 1;78(7 Suppl):1592–7

Outreach by the Hanford Tribal Service Program to Indian communities around the Hanford Nuclear Reservation. Jensen RA. **Cancer** 1996 Oct 1;78(7 Suppl):1607–11

Health beliefs and health behaviours in subpopulation of stomach cancer families and in the control group. Tobiasz–Adamczyk B. **Cancer Lett** 1997 Mar 19; 114(1–2):301–4

Barriers to lifestyle change, and the need to develop an integrated approach to prevention. Ockene IS, et al. **Cardiol Clin** 1996 Feb;14(1):159–69 (54 ref.)

Gender dynamics and the challenges for HIV prevention. Mbizvo MT. **Cent Afr J Med** 1996 Dec;42(12):351–4

Second Symposium on Ultraviolet Radiation–related Diseases. Mills CJ, et al. **Chronic Dis Can** 1997;18(1):27–38 (51 ref.)

Comparison of the genetic knowledge among nurses, students, and general public after ten years of implementation of genetic health program in Taiwan. Huang MC, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan–Feb;38(1):8–13

National Cholesterol Education Program recommendations for cholesterol testing in young adults. A science–based approach. Cleeman JI, et al. **Circulation** 1997 Mar 18; 95(6):1646–50

Cholesterol screening guidelines consensus, evidence, and the departure from common sense. LaRosa JC, et al. **Circulation** 1997 Mar 18;95(6):1651–3

The politics of marginalization: the appropriation of AIDS prevention messages among injection drug users. Connors MM. **Cult Med Psychiatry** 1995 Dec;19(4):425–52

Office laboratory procedures, office economics, patient and parent education, and urinary tract infection. Ey JL, et al. **Curr Opin Pediatr** 1996 Dec;8(6):639–49 (78 ref.)

Prevention of hand eczema in the metal–working industry: risk awareness and behaviour of metal worker apprentices. Itschner L, et al. **Dermatology** 1996;193(3):226–9

Report of the Patients and Carers Group. Hill J, et al. **Diabet Med** 1996 Sep;13(9 Suppl 4):S60–4 (8 ref.)

Women and diabetes. Lunt H. **Diabet Med** 1996 Dec; 13(12):1009–16 (109 ref.)

Long–term efficacy of a 5–day structured teaching and treatment programme for intensified conventional insulin therapy and risk for severe hypoglycemia. Schiel R, et al. **Diabetes Res Clin Pract** 1997 Feb;35(1):41–8

Why cardiac patients do not follow the nutritionist's advice: barriers in nutritional advice perceived in rehabilitation. Koikkalainen M, et al. **Disabil Rehabil** 1996 Dec; 18(12):619–23

The wreck of Amtrak's Sunset Limited: news coverage of a mass transport disaster. Garner AC, et al. **Disasters** 1997 Mar;21(1):4–19

Knowledge of cervical cancer in teenage school children in Trinidad. Orrett FA, et al. **East Afr Med J** 1996 Jun; 73(6):400–3

Airing the word on pollution [news] **Environ Health Perspect** 1996 Jun;104(6):598

Impact of community educational programmes on foreign body aspiration in Israel [letter; comment] Hussein A. **Eur J Pediatr** 1996 Jun;155(6):523. Comment on: Eur J Pediatr 1995 Oct;154(10):859–62.

Epidemiological features of sudden infant death after a German intervention campaign in 1992. Schellscheidt J, et al. **Eur J Pediatr** 1997 Aug;156(8):655–60

Nutrition education for the public. FAO Expert Consultation. United Nations. **FAO Food Nutr Pap** 1995;59:1–54

Nutrition education for the public. Discussion papers of the FAO Expert Consultation. United Nations. **FAO Food Nutr Pap** 1997;62:1–212

A comparison of HIV related advice in genitourinary medicine clinics with different histories. Hope VD, et al. **Genitourin Med** 1996 Aug;72(4):286–9

In sickness and in health [news] **Hastings Cent Rep** 1996 Sep–Oct;26(5):42

Health education graduate standards: expansion of the framework. Capwell EM. **Health Educ Behav** 1997 Apr; 24(2):137–50

Lay health advisor intervention strategies: a continuum from natural helping to paraprofessional helping. Eng E, et al. **Health Educ Behav** 1997 Aug;24(4):413–7

How D.A.R.E. works: an examination of program effects on mediating variables. Hansen WB, et al. **Health Educ Behav** 1997 Apr;24(2):165–76

Changes in reported awareness of product warning labels and messages in cohorts of California Hispanics and non–Hispanic whites. Marín G, et al. **Health Educ Behav** 1997 Apr;24(2):230–44

"It's a 24–hour thing ... a living–for–each–other concept": identity, networks, and community in an urban village health worker project. Schulz AJ, et al. **Health Educ Behav** 1997 Aug;24(4):465–80

The role of germs and viruses in children's theories of AIDS (or, AIDS are not Band–Aids). Sigelman CK, et al. **Health Educ Behav** 1997 Apr;24(2):191–200

Effects of an obesity prevention program on the eating behavior of African American mothers and daughters. Stolley MR, et al. **Health Educ Behav** 1997 Apr; 24(2):152–64

Reducing inequities through participatory research and community empowerment. Travers KD. **Health Educ Behav** 1997 Jun;24(3):344–56

An HIV/AIDS prevention project for Mexican homosexual men: an empowerment approach. Zimmerman MA, et al. **Health Educ Behav** 1997 Apr;24(2):177–90

Challenges and rewards of involving community in research: an overview of the "Focus on Kids" HIV Risk Reduction Program. Galbraith J, et al. **Health Educ Q** 1996 Aug; 23(3):383–94

Use of ethnographic methods for applied research on diabetes among the Ojibway–Cree in northern Ontario. Gittelsohn J, et al. **Health Educ Q** 1996 Aug;23(3):365–82

Evaluation of 37 AIDS prevention projects: successful approaches and barriers to program effectiveness. Janz NK, et al. **Health Educ Q** 1996 Feb;23(1):80–97

Becoming a health education profession: key to societal influence 1995 SOPHE presidential address. Livingood WC. **Health Educ Q** 1996 Nov;23(4):421–30

The smoke–free university: anticipating health education needs of faculty and staff. Robinson L. **Health Educ Q** 1996 Feb;23(1):8–15

A meta–analysis of smoking prevention programs after adjustment for errors in the unit of analysis. Rooney BL, et al. **Health Educ Q** 1996 Feb;23(1):48–64

Addressing at–risk pregnant women's issues through community, individual and corporate grassroots efforts. Balsanek J. **Health Soc Work** 1997 Feb;22(1):63–9

HEALTH EDUCATION

Impact of a public campaign on pre-hospital delay in patients reporting chest pain. Gaspoz JM, et al. **Heart** 1996 Aug; 76(2):150–5

Public health. The wisdom of the old ways. Sandrick KM. **Hosp Health Netw** 1997 Feb 20;71(4):42

A study on the effect of patient and community education in prevention of disability programme. Ethiraj T, et al. **Indian J Lepr** 1995 Oct–Dec;67(4):435–45

Programme for participation of NSS students [letter] Kathe VJ, et al. **Indian J Lepr** 1996 Jul–Sep;68(3):261–2

Role of health education in school-children with particular reference to malaria. Bhati PG, et al. **Indian J Malariol** 1995 Sep;32(3):93–98

Perception about AIDS among residents of a Calcutta slum. Poddar AK, et al. **Indian J Public Health** 1996 Jan–Mar; 40(1):4–9

A controlled evaluation of a community injury prevention project in two Greek islands. Petridou E, et al. **Int J Epidemiol** 1997 Feb;26(1):173–9

Using a knowledge, attitudes and practices survey to supplement findings of an outbreak investigation: cholera prevention measures during the 1991 epidemic in Peru. Quick RE, et al. **Int J Epidemiol** 1996 Aug;25(4):872–8

A new type of health service for consumers in the USA: Health Pages. Cronin C. **Int J Qual Health Care** 1996 Oct; 8(5):505–7

Supporting consumer involvement in decision making: what constitutes quality in consumer health information? Entwistle VA, et al. **Int J Qual Health Care** 1996 Oct; 8(5):425–37 (48 ref.)

Sources of information on genitourinary medicine clinics. Clutterbuck DJ, et al. **Int J STD AIDS** 1997 Aug;8(8):532

University students' knowledge of STDs: labels, symptoms and transmission. Minichiello V, et al. **Int J STD AIDS** 1996 Aug–Sep;7(5):353–8

Public awareness of prostate cancer in Japan [letter; comment] Egawa S. **Int J Urol** 1996 May;3(3):173–4. Comment on: Int J Urol 1995 Sep;2(4):257–60.

Nurses' response to WHO warning of global crisis in infectious diseases: health education [news] **Int Nurs Rev** 1996 Jul–Aug;43(4):103

Lay people go to medical school. Dordick V. **Iowa Med** 1997 Apr;87(4):151–2

Embedded anti-alcohol messages on commercial television: what teenagers perceive. Borzekowski DL. **J Adolesc Health** 1996 Nov;19(5):345–52

Comparison of two violence prevention curricula for middle school adolescents. DuRant RH, et al. **J Adolesc Health** 1996 Aug;19(2):111–7

One method for assessing HIV/AIDS peer-education programs. Haignere CS, et al. **J Adolesc Health** 1997 Aug; 21(2):76–9

Evaluation of comprehensive violence prevention education: effects on student behavior. Hausman A, et al. **J Adolesc Health** 1996 Aug;19(2):104–10

Preteenage drug use in Australia: the key predictors and school-based drug education. Hawthorne G. **J Adolesc Health** 1997 May;20(5):384–95

Effectiveness of the 40 adolescent AIDS-risk reduction interventions: a quantitative review. Kim N, et al. **J Adolesc Health** 1997 Mar;20(3):204–15

Sixth and eighth graders and acquired immunodeficiency syndrome: the results of focus group analysis. Palmer DA, et al. **J Adolesc Health** 1996 Oct;19(4):297–302

Puberty questions asked by early adolescents: what do they want to know? Ryan SA, et al. **J Adolesc Health** 1996 Aug;19(2):145–52

Ignorance of oral cancer [news] **J Adv Nurs** 1996 Jul;24(1):4

Health maintenance for the independent frail older adult: can it improve physical and mental well-being? Dungan JM, et al. **J Adv Nurs** 1996 Jun;23(6):1185–93

Sunny days, healthy ways: evaluation of a skin cancer prevention curriculum for elementary school-aged children. Buller DB, et al. **J Am Acad Dermatol** 1996 Dec; 35(6):911–22

Conflicting national recommendations and the use of screening mammography: does the physician's recommendation matter? Taplin SH, et al. **J Am Board Fam Pract** 1997 Mar–Apr;10(2):88–95

The merits of peer education programs [letter] Drellishak R. **J Am Coll Health** 1997 Mar;45(5):218

The impact of a required college health and physical education course on the health status of alumni. Pearman SN 3rd, et al. **J Am Coll Health** 1997 Sep;46(2):77–85

Position of the American Dietetic Association: nutrition education for the public. **J Am Diet Assoc** 1996 Nov; 96(11):1183–7 (40 ref.)

Nutrition Screening Initiative Checklist may be a better awareness/educational tool than a screening one. Sahyoun NR, et al. **J Am Diet Assoc** 1997 Jul;97(7):760–4

Health education improves older subjects' attitudes toward urinary incontinence and access to care: a randomized study in sheltered accommodation centers for the aged [letter] Béguin AM, et al. **J Am Geriatr Soc** 1997 Mar; 45(3):391–2

Newsletters as a channel for communication in a community-based Aedes aegypti control program in Marília, Brazil. Mazine CA, et al. **J Am Mosq Control Assoc** 1996 Dec;12(4):732–5

Women's health education: an opportunity for community pharmacy. Knowlton CH, et al. **J Am Pharm Assoc (Wash)** 1997 Jan–Feb;NS37(1):109–20; quiz 121–2 (11 ref.)

A comparative study of the awareness and attitude of HIV/AIDS among students living in India and migrants to the United States. Chakraborty J, et al. **J Assoc Physicians India** 1996 Apr;44(4):237–9

Changing trends of communicable diseases in rural areas of western Maharashtra [letter] Khubnani H, et al. **J Assoc Physicians India** 1996 Oct;44(10):753–4

Organizing the community to target poor Latino children with asthma. Lewis MA, et al. **J Asthma** 1996;33(5):289–97

Prioritizing guidelines for health education message design. Hugo J. **J Audiov Media Med** 1996 Dec;19(4):171–4

Strategies for ritual speeches: tips from a professor of speech. Reeve ML. **J Cancer Educ** 1997 Summer;12(2):77–84

Joint analysis of three U.S. community intervention trials for reduction of cardiovascular disease risk. Winkleby MA, et al. **J Clin Epidemiol** 1997 Jun;50(6):645–58

Skin cancer prevention: a time for action. Everett SA, et al. **J Community Health** 1997 Jun;22(3):175–83

An evaluation of a television-delivered behavioral weight loss program: are the ratings acceptable? Meyers AW, et al. **J Consult Clin Psychol** 1996 Feb;64(1):172–8

A firearm safety program for children: they just can't say no. Hardy MS, et al. **J Dev Behav Pediatr** 1996 Aug; 17(4):216–21

Initiation of cigarette smoking among children with and without learning disabilities. Robertson SB, et al. **J Dev Behav Pediatr** 1996 Aug;17(4):248–52

Observations on handwashing practices of mothers and environmental conditions in Ona-Ara Local Government Area of Oyo State, Nigeria. Omotade OO, et al. **J Diarrhoeal Dis Res** 1995 Dec;13(4):224–8

Behavior assessment and cross-validation by surrogate measures in drug prevention research. Duryea E, et al. **J Drug Educ** 1995;25(4):335–42

Family communication patterns, rebelliousness, and adolescent reactions to anti-drug PSAs. Skinner ER, et al. **J Drug Educ** 1995;25(4):343–55

Adolescent counterarguing of TV beer advertisements: evidence for effectiveness of alcohol education and critical viewing discussions. Slater MD, et al. **J Drug Educ** 1996; 26(2):143–58

Drug education and the college athlete: evaluation of a decision-making model. Tricker R, et al. **J Drug Educ** 1996; 26(2):159–81

Evaluation of a parent child drug education program. Young M, et al. **J Drug Educ** 1996;26(1):49–56

Patient knowledge of upper respiratory infections: implications for antibiotic expectations and unnecessary utilization. Mainous AG 3rd, et al. **J Fam Pract** 1997 Jul; 45(1):75–83

Developing a medical achievement reading test to evaluate patient literacy skills: a preliminary study. Hanson-Divers EC. **J Health Care Poor Underserved** 1997 Feb;8(1):56–69

Truth and deception in AIDS information brochures. Jones A. **J Homosex** 1997;32(3–4):37–75

AIDS [letter] De TS. **J Indian Med Assoc** 1995 Oct; 93(10):397

Focused peer-mediated educational programs among female sex workers to reduce sexually transmitted disease and human immunodeficiency virus transmission in Kenya and Zimbabwe. Ngugi EN, et al. **J Infect Dis** 1996 Oct;174 Suppl 2:S240–7

MAG and the Alliance: helping children make healthy choices. Brunt I, et al. **J Med Assoc Ga** 1996 Sep; 85(3):143–5

Keying educational messages to high-risk populations [news] Daley L. **J Natl Cancer Inst** 1997 Jul 16;89(14):998–1000

Effectiveness of health education to increase screening for cervical cancer among eastern-band Cherokee Indian women in North Carolina. Dignan M, et al. **J Natl Cancer Inst** 1996 Nov 20;88(22):1670–6

Preferred sources of AIDS information, risk perceptions, and risk behaviors among inner-city community college students. Rich JA, et al. **J Natl Med Assoc** 1996 Feb; 88(2):87–93

Neurology and public health: strategy and perspectives [editorial] Aarli JA. **J Neurol Sci** 1997 Jan;145(1):3–4

The World Health Organization's global initiative on neurology and public health. Janca A, et al. **J Neurol Sci** 1997 Jan;145(1):1–2 (4 ref.)

Children's perceptions of peers with AIDS: assessing the impact of contagion information, perceived similarity, and illness conceptualization. Maieron MJ, et al. **J Pediatr Psychol** 1996 Jun;21(3):321–33

Education program targets anxiety disorders [news] **J Psychosoc Nurs Ment Health Serv** 1997 Jan;35(1):9

A discussion of the environmental influences on asthma and the role of Environmental Health Officers in combating it. Griffiths SD. **J R Soc Health** 1996 Aug;116(4):223–9

The school of nurse as health educator. Bradley BJ. **J Sch Health** 1997 Jan;67(1):3–8

How prospective school health educators can build a portfolio to communicate professional expertise. Cleary MJ, et al. **J Sch Health** 1997 Aug;67(6):228–31

The case of hallucinogenic plants and the Internet. Micke MM. **J Sch Health** 1996 Oct;66(8):277–80

Effects of an inservice workshop on the health teaching self-efficacy of elementary school teachers. Telljohann SK, et al. **J Sch Health** 1996 Sep;66(7):261–5

Creating a virtual materials and resources index for health education using the World Wide Web. Weiler RM. **J Sch Health** 1996 Aug;66(6):205–9

Teachers' beliefs concerning teaching about testicular cancer and testicular self-examination. Wohl RE, et al. **J Sch Health** 1997 Mar;67(3):106–11

Sexual partners of substance abuse clients: strategies for HIV/AIDS prevention. Wermuth L. **J Subst Abuse Treat** 1996 Nov–Dec;13(6):505–9 (16 ref.)

Health care of adolescents [editorial] Ebrahim GJ. **J Trop Pediatr** 1996 Dec;42(6):316–7

Effects of a multidimensional anabolic steroid prevention intervention. The Adolescents Training and Learning to Avoid Steroids (ATLAS) Program. Goldberg L, et al. **JAMA** 1996 Nov 20;276(19):1555–62

'Hands-on' center may offer a clue to health education in the 21st century [news] Gunby P. **JAMA** 1996 Oct 23–30; 276(16):1289–90

Prevention of Vibrio vulnificus infections. Assessment of regulatory educational strategies. Mouzin E, et al. **JAMA** 1997 Aug 20;278(7):576–8

Health online and the empowered medical consumer. Ferguson T. **Jt Comm J Qual Improv** 1997 May;23(5):251–7

How will we know if we got it right? Aims, benefits, and risks of consumer information initiatives. Sofaer S. **Jt Comm J Qual Improv** 1997 May;23(5):258–64

In the shadow of epilepsy [editorial] **Lancet** 1997 Jun 28; 349(9069):1851

Health counselling for university students [letter] Dann TC. **Lancet** 1996 Dec 7;348(9041):1591

Prevention of HIV infection in developing countries [see comments] d'Cruz-Grote D. **Lancet** 1996 Oct 19; 348(9034):1071–4. Comment in: Lancet 1996 Dec 21–28;348(9043):1742. Comment in: Lancet 1996 Dec 21–28;348(9043):1742–3.

US HIV education needs to target teachers [news] Firshein J. **Lancet** 1996 Sep 21;348(9030):818

Prevention of neural-tube defects [letter] Wild J, et al. **Lancet** 1997 Jul 5;350(9070):30–1

Health education to aid leprosy control in Nepal: lepra elective study. Seaton ED, et al. **Lepr Rev** 1997 Mar; 68(1):75–82

The Community Health Advocacy Program: changing the relations between communities and the medical campus. Archer D. **Med Health R I** 1996 Dec;79(12):420–1

Preventing falls in the elderly at home: a community-based program [letter; comment] Cameron I, et al. **Med J Aust** 1996 Oct 21;165(8):459–60. Comment on: Med J Aust 1996 May 6;164(9):530–2.

Evaluation of an HIV/AIDS education program for family-based foster care providers. Scotti JR, et al. **Ment Retard** 1996 Apr;34(2):75–82

Speakers Bureau continues to get more requests. Seely T. **Mich Med** 1996 Nov;95(11):34

Perioperative knowledge and anxiety score of patients undergoing surgery. Kureshi J, et al. **Middle East J Anesthesiol** 1995 Oct;13(3):325–33

Lessons learned from producing health information booklets for deploying U.S. military personnel. Huycke KA, et al. **Mil Med** 1997 Mar;162(3):209–14

Health risk appraisal and serum cholesterol nutrition education: an outcome study. Powell AJ, et al. **Mil Med** 1996 Feb;161(2):70–4

Impact of the 'Back to Sleep' campaign on sudden infant death syndrome in Minnesota. Carolan PL, et al. **Minn Med** 1997 Mar;80(3):43–6

Covering the medical beat. Whitten JC. **Minn Med** 1996 Aug; 79(8):6–11

Walk the walk, if you talk the talk [editorial] Thomas JR. **Mo Med** 1996 Oct;93(10):622–3

Screening for chlamydia to prevent pelvic inflammatory disease [letter] Pittrof R. **N Engl J Med** 1996 Nov 14; 335(20):1532; discussion 1532–3

Public knowledge and attitudes towards the use of alcohol and drinking guidelines. Sellman JD, et al. **N Z Med J** 1996 Sep 13;109(1029):337–9

Time for action and education: women, HIV and babies. Teele DW, et al. **N Z Med J** 1997 Jul 11;110(1047):241

Call for specialization in health journalism, New Delhi, 28 August 1995. Padmanabhan BS. **Natl Med J India** 1996 Jan–Feb;9(1):42–3

Dynamic systems-modeling as a means to estimate community-based prevention effects. Kibel BM, et al. **NIDA Res Monogr** 1994;142:404–46 (91 ref.)

Nutritional epidemiology: methods and innovations used in a central European community-based program. Albright CL. **Nutrition** 1996 May;12(5):386–7

Evaluate an occupational health programme. Deacon S. **Occup Med (Oxf)** 1996 Oct;46(5):375–6

New health program targets teenage smoking [news] **Pa Med** 1997 Feb;100(2):20

Health department booklet targets young parents [news] **Pa Med** 1996 Feb;99(2):18

Parental awareness, habits, and social factors and their relationship to baby bottle tooth decay. Febres C, et al. **Pediatr Dent** 1997 Jan–Feb;19(1):22–7

Sun Smart Day: a pilot program for photoprotection education. Buller MK, et al. **Pediatr Dermatol** 1997 Jul–Aug;14(4):257–63

Teaching children about skin cancer: the draw-and-write technique as an evaluation tool. Pion IA, et al. **Pediatr Dermatol** 1997 Jan–Feb;14(1):6–12

Update on the 1987 Task Force Report on High Blood Pressure in Children and Adolescents: a working group

report from the National High Blood Pressure Education Program. National High Blood Pressure Education Program Working Group on Hypertension Control in Children and Adolescents [see comments] **Pediatrics** 1996 Oct;98(4 Pt 1):649–58. Comment in: Pediatrics 1996 Nov;98(5):1002.

The pediatric prenatal visit: a time for change? [comment] [see comments] Dershewitz RA. **Pediatrics** 1996 Dec;98(6 Pt 1):1195–6. Comment on: Pediatrics 1996 Dec;98(6 Pt 1):1069–75. Comment in: Pediatrics 1997 Jun;99(6):925–6.

The Red Alert Program for life-threatening asthma. Sherman JM, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):187–91

A disability awareness unit in physical education and attitudes of elementary school students. Loovis EM, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):768–70

Construct validity of the physical Self-Efficacy Scale for a black sample: implications for health educators. Sumerlin JR, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1511–8

Evaluation of selected life-skill modules from the contemporary health series with students in grade. Young M, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):811–8

Patients as drug jugglers [letter] Rapoport D. **Pharos** 1996 Summer;59(3):49

Nutrition guidance by primary-care physicians: LISREL analysis improves understanding. Hiddink GJ, et al. **Prev Med** 1997 Jan-Feb;26(1):29–36

XVth World Conference of the IUHPE Makuhari, Japan--August 20–25, 1995. **Promot Educ** 1995 Dec; 2(4):34–40

Sustainable development in health. Bellamy C, et al. **Promot Educ** 1995 Dec;2(4):9–12

Children on the radio! An exciting programme in Mozambique. Bonati G. **Promot Educ** 1997 Mar;4(1):8–11

The U.N. Fourth World Conference on Women: A focus on women's health [letter] Koch SJ. **Promot Educ** 1995 Dec;2(4):6

Reflections from the XVth World Conference [editorial] Pinder L. **Promot Educ** 1995 Dec;2(4):3–5

Health promotion: bringing health to life. Rajala M. **Promot Educ** 1995 Dec;2(4):13–6

Using computer technology for health education. Taub A. **Promot Educ** 1997 Mar;4(1):5–7

Preserving our vitality: strategies for personal and professional growth. Veninga RL. **Promot Educ** 1997 Mar; 4(1):12–4

Health knowledge of children in Bangladesh: an exploratory study. Nath SR, et al. **Public Health** 1997 Sep;111(5):311–5

Enhancing client competence: melding professional and client knowledge in public health nursing practice. Reutter L, et al. **Public Health Nurs** 1997 Jun;14(3):143–50

Teaching school children cardiopulmonary resuscitation [letter; comment] Heath J, et al. **Resuscitation** 1996 Sep; 32(2):159–60. Comment on: Resuscitation 1996 Feb;31(1):33–8.

Health education and antibiotic therapy in trachoma control. Resnikoff S, et al. **Rev Int Trach Pathol Ocul Trop Subtrop Sante Publique** 1995;72:89–98, 101–10 **(Eng, Fre)**

The 'impending' AIDS catastrophe! [letter] Caldwell RI. **S Afr Med J** 1997 May;87(5):614

Proposals for health sciences education [news] Jones JS. **S Afr Med J** 1997 Feb;87(2):119, 122

Western and African medicines meet. van der Linde I. **S Afr Med J** 1997 Mar;87(3):268, 270

The quantity and quality of medical information available to the public. Arnold DE, et al. **S D J Med** 1996 Feb; 49(2):69–74

Public perceptions of brain tumours in Scotland: the need for access to appropriate information. Whittle IR, et al. **Scott Med J** 1996 Jun;41(3):87–9

Educational issues related to cancer genetics. Jenkins J. **Semin Oncol Nurs** 1997 May;13(2):141–4 (22 ref.)

Gender aspects and women's participation in the control and management of malaria in central Sudan. A/Rahman SH, et al. **Soc Sci Med** 1996 May;42(10):1433–46

Community participation in HIV prevention: problems and prospects for community-based strategies among female sex workers in Madras. Asthana S, et al. **Soc Sci Med** 1996 Jul;43(2):133–48

Communicating with the people about HIV infection risk as a basis for planning interventions: lessons from the Kagera Region of Tanzania. Killewo J, et al. **Soc Sci Med** 1997 Jul;45(2):319–29

Leprosy among the Limba: illness and healing in the context of world view. Opala J, et al. **Soc Sci Med** 1996 Jan; 42(1):3–19

Lay beliefs about diarrhoeal diseases: their role in health education in a developing country. Pitts M, et al. **Soc Sci Med** 1996 Oct;43(8):1223–8

Evaluation of HIV/AIDS education initiatives among women in northeastern Thai villages. Elkins D, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):430–42

Preventing alcohol use problems among blue-collar workers: a field test of the Working People program. Cook RF, et al. **Subst Use Misuse** 1996 Feb;31(3):255–275

Influence of interpersonal and mass-mediated interventions on injection drug and crack users: diffusion of innovations and HIV risk behaviors. Elwood WN, et al. **Subst Use Misuse** 1997 Apr;32(5):635–51

Perceived effectiveness of community-based measures against alcohol misuse among "problem" and "nonproblem" drinkers. Goldstein RB, et al. **Subst Use Misuse** 1997 Apr; 32(5):507–54

Drug use prevention efforts at colleges and universities in the United States. Werch CE, et al. **Subst Use Misuse** 1996 Jan;31(1):65–80

The use of simulations to assess the impact of an adolescent suicide response curriculum. Kalafat J, et al. **Suicide Life Threat Behav** 1996 Winter;26(4):359–64

A new approach to nutrition education. Mays R. **Tenn Med** 1997 Jul;90(7):285

Policy development for the control of sex-offending behavior. Cole CM, et al. **Tex Med** 1997 Mar;93(3):65–9

Sex education, politics, and religious views don't mix. McIlhaney JS Jr, et al. **Tex Med** 1996 May;92(5):7

Religious crusade. School health is at center of battle for control of state's education system. Ortolon K. **Tex Med** 1996 Feb;92(2):30–3

Differing values don't change facts of reproductive health. Simpson DM. **Tex Med** 1996 May;92(5):8

Battling upstream against the tobacco epidemic in China [news] Mackay J. **Tob Control** 1997 Spring;6(1):9–10

A plan for a new health leader training course at Tokai University. Okazaki I. **Tokai J Exp Clin Med** 1995 Sep; 20(3):176–8

A cohort study with children living in an air-polluted region--a model for public health. Marth E, et al. **Toxicol Lett** 1996 Nov;88(1–3):155–9

Public education and organ donation. Persijn GG, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1614–7

Health-independent lung transplantation information of parents of children with cystic fibrosis. Götz I, et al. **Transplantation** 1997 Sep 15;64(5):742–7

Impact of health education on mothers' knowledge of preventive health practices. Agboatwalla M, et al. **Trop Doct** 1997 Oct;27(4):199–202

A baby show as an evaluation tool [letter] Couper ID. **Trop Doct** 1997 Oct;27(4):252–3

Malaria-related beliefs and behaviour in southern Ghana: implications for treatment, prevention and control. Ahorlu CK, et al. **Trop Med Int Health** 1997 May;2(5):488–99

From their own perspective. A Kenyan community's perception of tuberculosis. Liefooghe R, et al. **Trop Med Int Health** 1997 Aug;2(8):809–21

Vegetables, fruit, and cancer prevention: the Wisconsin 5 a day for better health initiative. Moreau-Stodola D. **Wis Med J** 1997 Apr;96(4):39–41

Women's health education for medical students: an interdisciplinary response. Magrane DM. **Womens Health Issues** 1997 Jul-Aug;7(4):248–52

[Effects of different modes for health education on mothers' knowledge of baby feeding] He M, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 Mar;30(2):71–3 (Eng. Abstr.) **(Chi)**

[The cognitive role of epidemiology and its pitfalls] Záček A. **Cas Lek Cesk** 1997 Jul 14;136(14):427–30 (Eng. Abstr.) **(Cze)**

[Attitudes to lung cancer treatment in Denmark (letter)] Pettersson G, et al. **Ugeskr Laeger** 1996 Oct 14; 158(42):5953–4 **(Dan)**

[80 percent of infections originate in the kitchen. 'Everything is everywhere, man regulates' (interview by S. Deleu and W. Sybesma)] Oosterom H. **Tijdschr Diergeneeskd** 1996 Dec 15;121(24):719–21 **(Dut)**

[Health discussions on television: different types of speakers for different types of representation] Dubois L. **Can J Public Health** 1996 Jan-Feb;87(1):56–61 (Eng. Abstr.) **(Fre)**

[Study of parental participation in curricular and extracurricular activities] Renaud L, et al. **Can J Public Health** 1997 May-Jun;88(3):184–91 (Eng. Abstr.) **(Fre)**

[Society and hepatitis C--knowledge, perceptions, and public action] Setbon M. **Transfus Clin Biol** 1997;4(3):329–38 (Eng. Abstr.) **(Fre)**

[10 years after the Augsburg MONICA Study. What happened to the risk factors?] Hense HW. **Fortschr Med** 1997 Jun 20;115(17):59–60 **(Ger)**

[Alcohol in Munich secondary school students--a study for dissemination of experiences, knowledge, attitude and behavior] Scherer K, et al. **Gesundheitswesen** 1996 Oct; 58(10):533–7 (Eng. Abstr.) **(Ger)**

[Prevention of melanoma by sun protective measures in childhood. Temporal changes in awareness of parents] Kölmel KF, et al. **Hautarzt** 1997 Jun;48(6):391–6 (Eng. Abstr.) **(Ger)**

[Development and use of a questionnaire for evaluating teacher continuing education on the sex abuse topic] Bretz E, et al. **Prax Kinderpsychol Kinderpsychiatr** 1997 Jul-Aug; 46(6):420–34 (Eng. Abstr.) **(Ger)**

[Management of violent acts within the scope of a pedagogic concept of self and social development--or: talking with school children about violence] Gebauer K. **Prax Kinderpsychol Kinderpsychiatr** 1997 Mar;46(3):182–94 (Eng. Abstr.) **(Ger)**

[Risk perception and risk communication in environmental medicine] Wiedemann PM, et al. **Z Arztl Fortbild Qualitatssich** 1997 Feb;91(1):31–42 (Eng. Abstr.) **(Ger)**

[Health education--is it worth it?] Baron-Epel O. **Harefuah** 1997 Feb 2;132(3):192–8 (24 ref.) **(Heb)**

[Evaluation of a health education program for preventing alcohol and tobacco abuse in a health unit in Lombardi, Italy] Donato F, et al. **Epidemiol Prev** 1996 Jan-Mar; 20(1):24–30 (Eng. Abstr.) **(Ita)**

[Control of harmful pollutants in particular communities (Armed Forces). Technical and educational aspects] Ruggieri G. **Riv Med Aeronaut Spaz** 1975 Oct-Dec; 38(4):522–46 (Eng. Abstr.) **(Ita)**

[A study on the relationship between sources of health information concerning smoking and drinking, and health behavior] Kubo N, et al. **Nippon Eiseigaku Zasshi** 1996 Jul;51(2):579–87 (Eng. Abstr.) **(Jpn)**

[Challenges in the educational objectives of preventive medicine and community health curriculum in undergraduate medical education] Kahyo H. **Nippon Koshu Eisei Zasshi** 1996 Mar;43(3):175–82 (25 ref.) (Eng. Abstr.) **(Jpn)**

[The short-term effect of a smoking prevention program for the upper graders of elementary schools--the results of intervention study for two years with quasi-experimental design] Nishioka N, et al. **Nippon Koshu Eisei Zasshi** 1996 Jun;43(6):434–45 (Eng. Abstr.) **(Jpn)**

[AIDS seminar for personnel managers in japanese companies--application of health belief model and health norm model] Tanaka H. **Nippon Koshu Eisei Zasshi** 1996 Jun;43(6):479–85 **(Jpn)**

[Long-term result of a life style intervention group program (see comments)] Thiis-Evensen E, et al. **Tidsskr Nor Laegeforen** 1997 May 20;117(13):1913–6 (Eng. Abstr.). Comment in: Tidsskr Nor Laegeforen 1997 Jun 20;117(16):2361–2. Comment in: Tidsskr Nor Laegeforen 1997 Aug 20;117(19):2838–9. **(Nor)**

[Analysis of toxicological information rendered by the staff of the National Poison Information Center and physicians at the Clinic of Acute Poisoning of the Institute of Occupational Medicine in Lódź] Jaraczewska W, et al. **Przegl Lek** 1996;53(8):595–9 (Eng. Abstr.) **(Pol)**

[Psychoeducation of families of adolescent patients] Gmitrowicz A, et al. **Psychiatr Pol** 1996 Nov-Dec; 30(6):919–27 (Eng. Abstr.) **(Pol)**

[Strength and will: theoretical and methodological issues from the standpoint of risk in epidemiology and HIV/AIDS prevention] Castiel LD. **Rev Saude Publica** 1996 Feb;30(1):91–100 (40 ref.) (Eng. Abstr.) **(Por)**

[On the role of the teacher in the hygienic education of students] Katsnelbogen AG, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jan-Feb;(1):53–5 (Eng. Abstr.) **(Rus)**

[Development of a program of prevention of drug dependence in school children] García Lerín A, et al. **Aten Primaria** 1997 Mar 15;19(4):165–8 (Eng. Abstr.) **(Spa)**

[Children safety in the automobile and health education (letter)] Marqués F, et al. **Aten Primaria** 1996 Oct 31; 18(7):405 **(Spa)**

[Importance of health education in the practice of breastfeeding] Torres Díaz A, et al. **Aten Primaria** 1996 Sep 15;18(4):164–7 (Eng. Abstr.) **(Spa)**

[Health promotion in relation to HIV in the prison environment (letter)] Caylà JA. **Gac Sanit** 1997 Jan-Feb; 11(1):47 **(Spa)**

[Prison environment, HIV/AIDS and health promotion (letter)] Paredes J, et al. **Gac Sanit** 1997 Jan-Feb;11(1):45–7 **(Spa)**

[Family education, a model for allergy prevention] Perdomo-Ponce D, et al. **Invest Clin** 1996 Dec;37(4):221–45 (Eng. Abstr.) **(Spa)**

[Impact of a nutrition education program on the lipid profile and food habits of a working adult population] de Dios Sanz JJ, et al. **Nutr Hosp** 1996 Nov-Dec;11(6):334–8 (Eng. Abstr.) **(Spa)**

[Efficiency evaluation of the diabetic education unit at the hospital in Algeciras] García Ortega C, et al. **Rev Esp Salud Publica** 1996 Jan-Feb;70(1):45–50 (Eng. Abstr.) **(Spa)**

[Prevention of cardiovascular diseases: The Catalonia Declaration] **Rev Panam Salud Publica** 1997 Aug; 2(2):77–101 **(Spa)**

[Project of world objectives relating to the aged in the year 2001] **Salud Publica Mex** 1996 Nov-Dec;38(6):536–40 **(Spa)**

[The year of allergy 95--a year of mobilization (letter)] Bylin G, et al. **Lakartidningen** 1996 Oct 23;93(43):3768 **(Swe)**

ECONOMICS

Cost-effectiveness of populationwide educational approaches to reduce serum cholesterol levels. Tosteson AN, et al. **Circulation** 1997 Jan 7;95(1):24–30

Cost effectiveness of personal health education in primary care for people with angina in the greater Belfast area of Northern Ireland. O'Neill C, et al. **J Epidemiol Community Health** 1996 Oct;50(5):538–40

The costs and effectiveness of three vitamin A interventions in Guatemala. Phillips M, et al. **Soc Sci Med** 1996 Jun; 42(12):1661–8

HISTORY

Images of youth: the issue of juvenile smoking, 1880–1914. Welshman J. **Addiction** 1996 Sep;91(9):1379–86

The iconography of child public health: between medicine and reform. Golden J. **Caduceus** 1996 Winter;12(3):55–72

Nutrition, education, ignorance and income: a twentieth-century debate. Smith D, et al. **Clio Med** 1995;

32:288–318
Cancer education--lessons from the past. Bakemeier RF. **J Cancer Educ** 1997 Spring;12(1):9–16
Suntanning: differences in perceptions throughout history. Randle HW. **Mayo Clin Proc** 1997 May;72(5):461–6
[Health regimens of Anonymus Luneburgenesis of 1442. 1: Lüneburg and Anonymus Luneburgensis--health regulations--dietetics of the Middle Ages] Keil G. **Fortschr Med** 1996 Dec 10;114(34):482–4 **(Ger)**
[Samuel-Auguste Tissot 1728–1797): on the 200th anniversary of his death] Karbowski K. **Schweiz Med Wochenschr** 1997 Jul 8;127(27–28):1163–7 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Stanton Glantz on snuffing tobacco research [interview by Thomasine Kushner] Glantz S. **Camb Q Healthc Ethics** 1996 Summer;5(3):415–21
Changes among retailers selling cigarettes to minors. Dovell RA, et al. **Can J Public Health** 1996 Jan–Feb;87(1):66–8
Effects of the Stanford Five-City Project Media Advocacy Program. Schooler C, et al. **Health Educ Q** 1996 Aug; 23(3):346–64
Osteoporosis legislation 1996. Chapter 96–282. House bill no. 397. **J Fla Med Assoc** 1996 Oct;83(8):569–71
HIV and medicolegal aspects [letter] Momonchand A. **J Indian Med Assoc** 1996 Mar;94(3):120
[Communication in environmental health protection and in environmental medicine counseling] Preuss S, et al. **Gesundheitswesen** 1997 Jun;59(6):400–4 (Eng. Abstr.) **(Ger)**

METHODS

The long-term impact of AIDS-preventive interventions for delinquent and abused adolescents. Slonim-Nevo V, et al. **Adolescence** 1996 Summer;31(122):409–21
Theatre in AIDS education—a controlled study. Elliott L, et al. **AIDS Care** 1996 Jun;8(3):321–40
Effects of a skill-based intervention to encourage condom use among high risk heterosexually active adolescents. Gillmore MR, et al. **AIDS Educ Prev** 1997 Feb;9(1 Suppl):22–43
Effects of AIDS counseling and risk reduction training on the chronic mentally ill. Katz RC, et al. **AIDS Educ Prev** 1996 Oct;8(5):457–63
Does parental involvement make a difference? The impact of parent interactive activities on students in a school-based AIDS prevention program. Weeks K, et al. **AIDS Educ Prev** 1997 Feb;9(1 Suppl):90–106
Educational movie on human immunodeficiency virus infection and AIDS [letter] Martino DM. **Am J Health Syst Pharm** 1996 Jun 15;53(12):1463
Violence prevention begins at home—with nurses. Hatcher PA. **Am J Nurs** 1997 May;97(5):80
Using multimedia to teach conflict-resolution skills to young adolescents. Bosworth K, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):65–74
The Australian National Asthma Campaign: effects of public education activities based on mass media. Comino EJ, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):251–6
Distance learning and distance education: a personal perspective. Hinman AR. **Am J Prev Med** 1996 Jan–Feb; 12(1):5–8
Attributional bias and reactive aggression. Hudley C, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):75–81
Helping women quit smoking: baseline observations for a community health education project. Secker-Walker RH, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):367–77
Effect of a cancer screening intervention conducted by lay health workers among inner-city women. Sung JF, et al. **Am J Prev Med** 1997 Jan–Feb;13(1):51–7
A dietary intervention in primary care practice: the Eating Patterns Study [see comments] Beresford SA, et al. **Am J Public Health** 1997 Apr;87(4):610–6. Comment in: Am J Public Health 1997 Apr;87(4):541–3.
Developing non-traditional print media for HIV prevention: role model stories for young urban women. Bond L, et al. **Am J Public Health** 1997 Feb;87(2):289–90
The Eating Patterns Study--the importance of practical randomized trials in communities [editorial; comment] Green SB. **Am J Public Health** 1997 Apr;87(4):541–3. Comment on: Am J Public Health 1997 Apr;87(4):610–6.
The effectiveness of a media-led intervention to reduce smoking among Vietnamese-American men. Jenkins CN, et al. **Am J Public Health** 1997 Jun;87(6):1031–4
The effectiveness of a hospital-based program to promote exclusive breast-feeding among low-income women in Brazil. Lutter CK, et al. **Am J Public Health** 1997 Apr; 87(4):659–63
Getting your message out with social marketing. Manoff RK. **Am J Trop Med Hyg** 1997 Sep;57(3):260–5
Dietary education and iron deficiency anaemia in the inner city. Childs F, et al. **Arch Dis Child** 1997 Feb;76(2):144–7
Methodological issues for eliciting local signs/symptoms/illness terms associated with acute respiratory illnesses. Ryan GW, et al. **Arch Med Res** 1996 Autumn;27(3):359–65
Effectiveness of the BBC's 999 training roadshows on cardiopulmonary resuscitation: video performance of cohort of unforewarned participants at home six months afterwards [see comments] Morgan CL, et al. **BMJ** 1996 Oct 12;313(7062):912–6. Comment in: BMJ 1997 Jan 18;314(7075):222.
A study of the impact of Sun Awareness Week 1995. Fleming C, et al. **Br J Dermatol** 1997 May;136(5):719–24
A randomized trial to evaluate the effectiveness of dietary advice by practice nurses in lowering diet-related coronary heart disease risk [see comments] Roderick P, et al. **Br J Gen Pract** 1997 Jan;47(414):7–12. Comment in: Br J Gen Pract 1997 Jun;47(419):404–5.
Evaluation of tax bill inserts as a public health strategy to influence septic tank pumping practice. Carr PA, et al. **Can J Public Health** 1996 Sep–Oct;87(5):343–4
Knowledge and attitude assessment of Quebec daycare workers and parents regarding HIV/AIDS and hepatitis B. Renaud A, et al. **Can J Public Health** 1997 Jan–Feb; 88(1):23–6
Providing information about breast cancer via public forums. Beisecker AE, et al. **Cancer Detect Prev** 1997;21(4):370–9
Evaluation of the effectiveness of Project Trust: an elementary school-based victimization prevention strategy. Oldfield D, et al. **Child Abuse Negl** 1996 Sep;20(9):821–32
Evaluation of a workshop on Public Education Messages for Reducing Health Risks from Ultraviolet Radiation. Ramsingh R, et al. **Chronic Dis Can** 1997;18(1):39–43, quiz 43–4
World AIDS Day, 1 December 1996. **Commun Dis Rep CDR Wkly** 1996 Nov 29;6(48):417, 420
Healthy Lifestyle Check. A computerized health screening program. Martin K, et al. **Comput Nurs** 1997 Mar–Apr; 15(2):77–81
Helping schoolchildren with asthma breathe easier: partnerships in community-based environmental health education. O'Neill MS. **Environ Health Perspect** 1996 May; 104(5):464–6
Can hypertension be prevented? Applications of risk modifications in black populations: U.S. populations. Kumanyika SK. **Ethn Dis** 1997 Winter;7(1):72–7
Health education and promotion for STD prevention: lessons for the next millennium. Darrow WW. **Genitourin Med** 1997 Apr;73(2):88–94 (86 ref.)
Getting the message across: the development and evaluation of a health education video in general practice. Shiroyama C, et al. **Health Bull (Edinb)** 1997 Jan;55(1):58–61
Interactive multimedia software design: concepts, process, and evaluation. Hardin PC, et al. **Health Educ Behav** 1997 Feb;24(1):35–53 (36 ref.)
Computerized health assessment and education for adolescent HIV and STD prevention in health care settings and schools. Paperny DM. **Health Educ Behav** 1997 Feb; 24(1):54–70
Program: N'go Doo Dee Family Support Initiative. **Health Educ Q** 1996 Nov;23(4):415–6
Using the theory of reasoned action (TRA) to understand the decision to use condoms in an STD clinic population. Baker SA, et al. **Health Educ Q** 1996 Nov;23(4):528–42
Empowerment education: a case study of the Resource Sisters/Compañeras Program. Lugo NR. **Health Educ Q** 1996 Aug;23(3):281–9; discussion 290–2
Prevention campaigns for hard-to-reach populations at risk for HIV infection: theory and implementation. Pulley LV, et al. **Health Educ Q** 1996 Nov;23(4):488–96
Planned development and evaluation of AIDS/STD education for secondary school students in The Netherlands: short-term effects. Schaalma HP, et al. **Health Educ Q** 1996 Nov;23(4):469–87
Using mass media to prevent cigarette smoking among adolescent girls. Worden JK, et al. **Health Educ Q** 1996 Nov;23(4):453–68
Increasing condom use: evaluation of a theory-based intervention to prevent sexually transmitted diseases in young women. Bryan AD, et al. **Health Psychol** 1996 Sep; 15(5):371–82
Involving parents in cancer risk reduction: a program for Hispanic American families. Fitzgibbon ML, et al. **Health Psychol** 1996 Nov;15(6):413–22
Responding to symptoms and signs of acute myocardial infarction--how do you educate the public?: a social-psychologic approach to intervention. Alonzo AA, et al. **Heart Lung** 1997 Jul–Aug;26(4):263–72
A follow-up study of preventive effects on low back pain at worksites by providing a participatory occupational safety and health program. Koda S, et al. **Ind Health** 1997 Apr;35(2):243–8
Tobacco education in low-literacy individuals. Ciampa C. **Indiana Med** 1996 Mar–Apr;89(2):188–92
Evidence-based consumer health information: developing teaching in critical appraisal skills. Milne R, et al. **Int J Qual Health Care** 1996 Oct;8(5):439–45
Peer education: a commentary [editorial; comment] Goodhart F. **J Am Coll Health** 1997 Jan;45(4):191. Comment on: J Am Coll Health 1997 Jan;45(4):187–9.
Peer education: a viewpoint and critique [see comments] Lindsey BJ. **J Am Coll Health** 1997 Jan;45(4):187–9. Comment in: J Am Coll Health 1997 Jan;45(4):191.
Cognitive mapping: its use as an assessment tool for client education. Wiginton KL. **J Am Coll Health** 1997 Jan; 45(4):175–7
Approaching equity in consumer health information delivery: NetWellness [see comments] Morris TA, et al. **J Am Med Inform Assoc** 1997 Jan–Feb;4(1):6–13. Comment in: J Am Med Inform Assoc 1997 Jan–Feb;4(1):69–70.
Promoting prosthetics in the Latino community. Jaramillo R, et al. **J Biocommun** 1995;22(3):18–23
The readability levels of cancer-prevention materials targeting African Americans. Guidry JJ, et al. **J Cancer Educ** 1997 Summer;12(2):108–13
The impact of public education videotapes on knowledge about cancer. Wilson JL, et al. **J Cancer Educ** 1997 Spring; 12(1):51–4
Comparing two strategies to modify dietary behavior and serum cholesterol. Reynolds KD, et al. **J Cardiovasc Risk** 1997 Feb;4(1):1–5
Developing and evaluating a Spanish TEL-MED message on breast cancer. Ward B, et al. **J Community Health** 1997 Apr;22(2):127–35
Sources of AIDS information among low-risk and at-risk populations in five U.S. cities. AIDS Community Demonstration Projects. Wolitski RJ, et al. **J Community Health** 1996 Aug;21(4):293–310
Effect of an AIDS education program for older adults. Rose MA. **J Community Health Nurs** 1996;13(3):141–8
Meeting the learning needs of senior citizens and nursing students through a community-based pharmacology experience. Wissmann JL, et al. **J Community Health Nurs** 1996;13(3):159–65
Use of the "theme study" as means of curriculum development in continuation high schools. Dent CW, et al. **J Drug Educ** 1996;26(4):377–93
Health education: concepts and strategies [see comments] Singh T. **J Indian Med Assoc** 1996 Mar;94(3):112–4. Comment in: J Indian Med Assoc 1996 Dec;94(12):458.
S.M.A.R.T. Students Made Aware Reject Tobacco. Ryan R. **J Ky Med Assoc** 1996 Nov;94(11):505
Health promotion using television in hospital waiting rooms: the Adelaide Children's Parent Education Project. Cockington RA. **J Paediatr Child Health** 1995 Dec; 31(6):523–6
Young Moms' Clinic: a multidisciplinary approach to pregnancy education in teens and in young single women. Van Winter JT, et al. **J Pediatr Adolesc Gynecol** 1997 Feb; 10(1):28–33
Childhood injury: significance and prevention strategies [letter; comment] Chung-Son YC. **J Pediatr Nurs** 1997 Feb; 12(1):63. Comment on: J Pediatr Nurs 1996 Aug;11(4):225–32.
Assessing substance abuse among health care students and the efficacy of educational interventions. Coleman EA, et al. **J Prof Nurs** 1997 Jan–Feb;13(1):28–37
Development of a school-based drug abuse prevention curriculum for high-risk youths. Sussman S. **J Psychoactive Drugs** 1996 Apr–Jun;28(2):169–82
Social marketing: a tool not a solution. Montazeri A. **J R Soc Health** 1997 Apr;117(2):115–8
Personalizing the food pyramid. Allen D. **J Sch Health** 1996 Nov;66(9):341–3
Video and computer games: effect on children and implications for health education. Dorman SM. **J Sch Health** 1997 Apr;67(4):133–8 (36 ref.)
Teaching through stories. Goodwin SC, et al. **J Sch Health** 1997 Aug;67(6):242–4
New Jersey school nurses' perceptions of school-based, prenatal nutrition education. Janas BG, et al. **J Sch Health** 1997 Feb;67(2):62–7
Pro-innovation bias: the case of the Giant Texas SmokeScream. Smith DW, et al. **J Sch Health** 1996 Aug; 66(6):210–3
Plotting on the food pyramid: an evaluation of dietary patterns. Wirth LA. **J Sch Health** 1996 Aug;66(6):225–8
Effect of intervention on promotion of exclusive breast feeding. Akram DS, et al. **JPMA J Pak Med Assoc** 1997 Feb;47(2):46–8
Rehabilitation of grade III protein energy malnutrition on out patients basis. Jamal A, et al. **JPMA J Pak Med Assoc** 1995 Dec;45(12):312–4
Places of worship and health education [letter] Ejidokum O, et al. **Lancet** 1997 Jul 19;350(9072):223
Transmission of health information on leprosy from children to their families in an urban centre. Jacob MS, et al. **Lepr Rev** 1994 Sep;65(3):272–8
Meeting parents' postpartal needs with a telephone information line. Valaitis R, et al. **MCN Am J Matern Child Nurs** 1996 Mar–Apr;21(2):90–5
Sunlight: an environmental toxin for humans. A primer to advise patients. Morison WL. **Md Med J** 1997 May–Jun; 46(5):227–30
October is breast cancer awareness month. Physicians aid women through state cancer control program. DeShano CL. **Mich Med** 1996 Oct;95(10):40, 62
A controlled trial of an educational program to prevent low back injuries [see comments] Daltroy LH, et al. **N Engl J Med** 1997 Jul 31;337(5):322–8. Comment in: N Engl J Med 1997 Jul 31;337(5):341–3.
Workers with disabling back pain [editorial; comment] Hadler NM. **N Engl J Med** 1997 Jul 31;337(5):341–3. Comment on: N Engl J Med 1997 Jul 31;337(5):322–8.
Revising educational requirements: challenging four hours for both basic life support and automated external defibrillators. Amith G. **New Horiz** 1997 May;5(2):167–72
Persuasive communication: marketing health promotion. Stubblefield C. **Nurs Outlook** 1997 Jul–Aug;45(4):173–7 (25 ref.)
Electronic voice boosts CPR responses. Starr LM. **Occup Health Saf** 1997 Apr;66(4):30–7
Promoting mealtime communication between adolescent

mothers and their infants through videotape. Black MM, et al. **Pediatrics** 1997 Mar;99(3):432–7

The impact of a computer–tailored nutrition intervention. Brug J, et al. **Prev Med** 1996 May–Jun;25(3):236–42

The effectiveness of Drug Abuse Resistance Education (project DARE): 5–year follow–up results. Clayton RR, et al. **Prev Med** 1996 May–Jun;25(3):307–18

The recruitment of African–Americans to cancer prevention and control studies. Paskett ED, et al. **Prev Med** 1996 Sep–Oct;25(5):547–53

Formal and informal capacity building in support of the safe motherhood initiative in Botswana. Manyeneng WG. **Promot Educ** 1996 Sep;3(3):25–7, 47

A framework for developing health promotion and education initiatives in reproductive health. Rice M. **Promot Educ** 1996 Sep;3(3):7–10, 45

The prevention of substance abuse in schools: a process evaluation of the adoption of a standardised education module. Villalbi JR, et al. **Promot Educ** 1997 Mar;4(1):15–9

Significant achievement award. FACES Maimonides Theatre Network for Teens. Department of Psychiatry, Maimonides Medical Center, Brooklyn, New York. Montez S. **Psychiatr Serv** 1996 Oct;47(10):1115

The impact of heart health promotion on coronary heart disease lifestyle risk factors in schoolchildren: lessons learnt from a community–based project. Baxter AP, et al. **Public Health** 1997 Jul;111(4):231–7

Development and use of role model stories in a community level HIV risk reduction intervention. Corby NH, et al. **Public Health Rep** 1996;111 Suppl 1:54–8

Evaluation of community radio as a medium for health messages [letter] Bardwell H, et al. **S Afr Med J** 1997 Mar; 87(3):338, 342

Designing educational messages to improve weaning food hygiene practices of families living in poverty. Monte CM, et al. **Soc Sci Med** 1997 May;44(10):1453–64

Evaluating the program effects of a radio drama about AIDS in Zambia [see comments] Yoder PS, et al. **Stud Fam Plann** 1996 Jul–Aug;27(4):188–203. Comment in: Stud Fam Plann 1997 Jun;28(2):170–2.

Harm reduction for alcohol–use–related problems among college students. Cronin C. **Subst Use Misuse** 1996 Dec; 31(14):2029–37

A prison–based alcohol use education program: evaluation of a pilot study. Crundall I, et al. **Subst Use Misuse** 1997 May;32(6):767–77

Strategies for preventing adolescent mercury exposure in Brazilian gold mining areas. Câmara V de M, et al. **Toxicol Ind Health** 1997 Mar–Jun;13(2–3):285–97

The participation of African traditional healers in AIDS/STD prevention programmes. Green EC. **Trop Doct** 1997;27 Suppl 1:56–9

Umbanda healers as effective AIDS educators: case–control study in Brazilian urban slums (favelas). Nations MK, et al. **Trop Doct** 1997;27 Suppl 1:60–6

Do–it–yourself information notes for AIDS counselling in developing countries. Scrimgeour EM. **Trop Doct** 1997 Apr;27(2):82–4

Health education for community–based malaria control: an intervention study in Ecuador, Colombia and Nicaragua. Kroeger A, et al. **Trop Med Int Health** 1996 Dec; 1(6):836–46

Anti–tobacco crusader educates youth on the facts of life of the tobacco industry. McCollum C. **Wis Med J** 1996 Nov;95(11):766–8

Internet Web resources for anti–tobacco advocacy. Miller K, et al. **Wis Med J** 1996 Nov;95(11):784–5

Women who have sex with other women: HIV seroprevalence in New York State counseling and testing programs. Shotsky WJ. **Women Health** 1996;24(2):1–15

Mosques against malaria. Mfaume MS, et al. **World Health Forum** 1997;18(1):35–8

Long–term follow–up of school health education programmes [letter] Patil V, et al. **World Health Forum** 1996;17(1):81–2

[Assessment of an educational campaign by practicing veterinarians in The Netherlands on human and animal Toxocara infections] Overgaauw PA, et al. **Tijdschr Diergeneeskd** 1996 Nov 1;121(21):615–8 (Eng. Abstr.) **(Dut)**

[Lecture notes. Attention AIDS!] Taverne B. **Sante** 1996 Sep–Oct;6(5):328–9 **(Fre)**

[Risk of hearing loss caused by high volume music—presenting an educational concept for preventing hearing loss in adolescents] Becher S, et al. **Gesundheitswesen** 1996 Feb;58(2):91–5 (Eng. Abstr.) **(Ger)**

[FAUSTLOS—a curriculum for promoting social competence and preventing aggressive and violent behavior in children] Krannich S, et al. **Prax Kinderpsychol Kinderpsychiatr** 1997 Mar;46(3):236–47 (Eng. Abstr.) **(Ger)**

[Computer analysis of life style. A tool for reduction of cardiovascular diseases] Bye A. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2630–3 (Eng. Abstr.) **(Nor)**

[Risk factors analysis of cardiovascular diseases. Is the Life Style Assessment useful?] Bye A. **Tidsskr Nor Laegeforen** 1997 Aug 10;117(18):2634–6 (Eng. Abstr.) **(Nor)**

ORGANIZATION & ADMINISTRATION

Reaching out beyond the hills: HIV prevention among injecting drug users in Manipur, India. Hangzo C, et al. **Addiction** 1997 Jul;92(7):813–20

Toward reducing the spread of HIV in northeastern Thai villages: evaluation of a village–based intervention. Elkins D, et al. **AIDS Educ Prev** 1997 Feb;9(1):49–69

The Defeat Depression Campaign: psychiatry in the public arena. Paykel ES, et al. **Am J Psychiatry** 1997 Jun;154(6 Suppl):59–65

Community based health education: general practitioners' perceptions of their role and willingness to participate. Girgis A, et al. **Aust N Z J Public Health** 1996 Aug; 20(4):381–5

Partnerships for networked health information for the public. Introduction [comment] Deering MJ. **Bull Med Libr Assoc** 1996 Apr;84(2):206–8. Comment on: Bull Med Libr Assoc 1996 Apr;84(2):209–16. Comment on: Bull Med Libr Assoc 1996 Apr;84(2):217–22. Comment on: Bull Med Libr Assoc 1996 Apr;84(2):223–8. Comment on: Bull Med Libr Assoc 1996 Apr;84(2):229–36.

Reducing the harm of adolescent substance use [editorial; comment] Erickson PG. **Can Med Assoc J** 1997 May 15; 156(10):1397–9 (15 ref.). Comment on: Can Med Assoc J 1997 May 15;156(10):1387–93.

Multiculturalism and AIDS: different communities mean different educational messages required. Lechky O. **Can Med Assoc J** 1997 May 15;156(10):1446–8

Mandatory CPR training for students may improve cardiac–arrest survival rate, MDs say. Lyttle J. **Can Med Assoc J** 1996 Oct 15;155(8):1172–4

Health education for pregnancy care in Harare. A survey in seven primary health care clinics. Murira N, et al. **Cent Afr J Med** 1996 Oct;42(10):297–301

Environmental justice in action [news] Haynes RC. **Environ Health Perspect** 1997 Apr;105(4):374–7

Factors associated with use of the female condom. Sly DF, et al. **Fam Plann Perspect** 1997 Jul–Aug;29(4):181–4

Black grandparents: curriculum development. Strom R, et al. **Int J Aging Hum Dev** 1996;43(2):119–34

Primary prevention of eating disorders: might it do more harm than good? Carter JC, et al. **Int J Eat Disord** 1997 Sep;22(2):167–72

"Safe sun": preventing adult disease in adolescence [editorial; comment] Litt IF. **J Adolesc Health** 1996 Dec;19(6):377. Comment on: J Adolesc Health 1996 Dec;19(6):409–15.

Violence prevention in middle schools: a pilot evaluation. Orpinas P, et al. **J Adolesc Health** 1995 Dec;17(6):360–71

Preventing sleep problems in infants: a randomized controlled trial. Kerr SM, et al. **J Adv Nurs** 1996 Nov;24(5):938–42

Challenges and opportunities for cancer educators in the new health care environment. Mirand EA. **J Cancer Educ** 1997 Spring;12(1):8

Cancer education—the opportunities for the future. Schwarz R. **J Cancer Educ** 1997 Spring;12(1):28–31

Cancer education—challenges and opportunities for the future. Sowers JG. **J Cancer Educ** 1997 Spring;12(1):24–7

Development and implementation of outreach strategies for breast and cervical cancer prevention among African American women. FoCaS Project. Forsyth County Cancer Screening. Tatum C, et al. **J Cancer Educ** 1997 Spring; 12(1):43–50

Effects of an educational intervention on mothers of male children with attention deficit hyperactivity disorder. Odom SE. **J Community Health Nurs** 1996;13(4):207–20

Environmental predictors of drinking and drinking–related problems in young adults. Jones–Webb R, et al. **J Drug Educ** 1997;27(1):67–82

Evaluation of a dutch educational "Driving While Intoxicated (DWI)" prevention program for driving schools. Kayser RE, et al. **J Drug Educ** 1995;25(4):379–93

Intraclass correlation among measures related to alcohol use by school aged adolescents: estimates, correlates and applications in intervention studies. Murray DM, et al. **J Drug Educ** 1996;26(3):207–30

Curricula, competition and conventional bonds: the educational role in drug control. Norland S, et al. **J Drug Educ** 1996;26(3):231–42 (28 ref.)

A three year outcome evaluation of a theory based drink driving education program. Sheehan M, et al. **J Drug Educ** 1996;26(3):295–312

Effectiveness of a school–based substance abuse prevention program. Shope JT, et al. **J Drug Educ** 1996;26(4):323–37

Impact of two social–cognitive interventions to prevent adolescent substance use: test of an amenability to treatment model. Snow DL, et al. **J Drug Educ** 1997;27(1):1–17

Three–year results of prevention programs on marijuana use: the New Hampshire study. Stevens MM, et al. **J Drug Educ** 1996;26(3):257–73

Experimental evaluation of "The Images Within": an alcohol education and prevention program. Woodside M, et al. **J Drug Educ** 1997;27(1):53–65

Setting the agenda for research and education on coronary heart disease. Fulwood R. **J Health Care Poor Underserved** 1997 Aug;8(3):247–9

New insights and interventions: churches uniting to reach the African American community with health information. Sanders EC 2nd. **J Health Care Poor Underserved** 1997 Aug;8(3):373–5; discussion 375–6

Health education: concepts and strategies [see comments] Singh T. **J Indian Med Assoc** 1996 Mar;94(3):112–4. Comment in: J Indian Med Assoc 1996 Dec;94(12):458.

Update on American Heart Association education and information initiatives. O'Neal TB, et al. **J La State Med Soc** 1997 May;149(5):172–4

Logics and logistics of community intervention against osteoporosis: an evidence basis. Waller J, et al. **J Med Syst** 1997 Feb;21(1):33–47

Make–believe hospital—a pediatric clinical experience. Warren IB. **J Nurs Educ** 1997 May;36(5):234–5

Parental evaluation of a tour of the neonatal intensive care unit during a high–risk pregnancy. Griffin T, et al. **J Obstet Gynecol Neonatal Nurs** 1997 Jan–Feb;26(1):59–65

Coming out of the (water) closet [editorial] Haller KB. **J Obstet Gynecol Neonatal Nurs** 1997 Jul–Aug;26(4):370

The growth of children for two generations at an Australian aboriginal community. Alsop–Shields L. **J Pediatr Nurs** 1996 Dec;11(6):402–8

The health education profession in the 21st century: setting the stage. National Commission for Health Education Credentialing, Inc., Coalition of National Health Education Organizations, USA. **J Sch Health** 1996 Oct;66(8):291–8

Developing culturally sensitive HIV/AIDS and substance abuse prevention curricula for Native American youth. Baldwin JA, et al. **J Sch Health** 1996 Nov;66(9):322–7

A culturally appropriate cancer education program for African–American adolescents in an urban middle school. Barg FK, et al. **J Sch Health** 1996 Feb;66(2):50–4

The politics of school–based programs which address sexual orientation. Rienzo BA, et al. **J Sch Health** 1996 Jan; 66(1):33–40

Bridging student health risks and academic achievement through comprehensive school health programs. Symons CW, et al. **J Sch Health** 1997 Aug;67(6):220–7 (73 ref.)

Brief nurse consultations for preventing alcohol use among urban school youth. Werch CE, et al. **J Sch Health** 1996 Nov;66(9):335–8

"Eggs–perimenting" with seat belt safety. Wood DN. **J Sch Health** 1996 Feb;66(2):79–80

South Africa revolutionises HIV prevention and education strategies [news] Crowe S. **Lancet** 1997 May 10; 349(9062):1377

Stick to life: a sticker competition for smoking prevention. Freitas FA. **MCN Am J Matern Child Nurs** 1997 Jan–Feb; 22(1):50–1

Perinatal effects of a pregnancy wellness program in the workplace. Walden CM, et al. **MCN Am J Matern Child Nurs** 1996 Nov–Dec; 21(6):288–93

Television minidramas: social marketing and evaluation in Egypt. Lane SD. **Med Anthropol Q** 1997 Jun;11(2):164–82

History in the making: the evolution of consumer product information (CPI) [published erratum appears in Med J Aust 1997 Jun 16;166(12):629] Shenfield GM, et al. **Med J Aust** 1997 Apr 21;166(8):425–8 (29 ref.)

Community education programs to promote mammography participation in rural New York State. Flynn BS, et al. **Prev Med** 1997 Jan–Feb;26(1):102–8

The organisation of health promotion and education in Italy. Bertinato L, et al. **Promot Educ** 1997 Jun;4(2):19–22

A model for making AIDS training accessible to health professionals in Puerto Rico. Bravo A, et al. **Promot Educ** 1997 Mar;4(1):24–6

Health education in Latin America: the difficulties of community participation and empowerment. Cardaci D. **Promot Educ** 1997 Mar;4(1):20–2

Community life support training: does it attract the right people? Lester C, et al. **Public Health** 1997 Sep;111(5):293–6

Girl Talk: development of an intervention for prevention of HIV/AIDS and other sexually transmitted diseases in adolescent females. Guthrie BJ, et al. **Public Health Nurs** 1996 Oct;13(5):318–30

The Trading Cards Program—using high school role models for drug abuse prevention. Harris JL. **Public Health Rep** 1996 Nov–Dec;111(6):547–8

Prenatal power—education for life. Pan E, et al. **Public Health Rep** 1996 Nov–Dec;111(6):541–5

HIV prevention among Zambian adolescents: developing a value utilization/norm change model. Feldman DA, et al. **Soc Sci Med** 1997 Feb;44(4):455–68

The impact of health education to promote cloth filters on dracunculiasis prevalence in the northern region, Ghana. Tayeh A, et al. **Soc Sci Med** 1996 Oct;43(8):1205–11

Proposal for a host education center under WHO for the international development of new health initiative leaders. **Tokai J Exp Clin Med** 1995 Sep;20(3):189–94

Health education and sexually transmitted diseases. Hubley J, et al. **Trop Doct** 1996 Jul;26(3):121–5 (13 ref.)

University of Wisconsin agricultural safety and health activities. Purschwitz M. **Wis Med J** 1997 Aug;96(8):25–9

Evaluation of an HIV/AIDS education program in an urban prenatal clinic. Gielen AC, et al. **Womens Health Issues** 1997 Jul–Aug;7(4):269–78

Reproductive tract infections—and associated difficulties. Kumar R, et al. **World Health Forum** 1997;18(1):80–2

[Health education in Lebanon: current state and perspectives] Mekhael E. **Promot Educ** 1997 Mar;4(1):27–31 **(Fre)**

[Evaluating the efficacy of selected programs for prophylaxis of caries and periodontal diseases in school children with special reference to guidelines for oral cavity hygiene] Szczurek D. **Ann Acad Med Stetin** 1996;42:223–35 (Eng. Abstr.) **(Pol)**

[Focus groups: preliminary experiences in educational health programs in Brazil] Westphal MF, et al. **Bol Oficina Sanit Panam** 1996 Jun;120(6):472–82 (Eng. Abstr.) **(Por)**

HEALTH EDUCATION

[Administration of the "Healthy School" project] Bjegović V, et al. **Srp Arh Celok Lek** 1996 Jul–Aug;124(7–8):184–9 (Eng. Abstr.) **(Scc)**

STANDARDS

Advertising wearout in the Transport Accident Commission road safety campaigns. Fry TR. **Accid Anal Prev** 1996 Jan; 28(1):123–9

Evaluation of the HIV risk reduction intervention for women entering inpatient substance abuse treatment. Eldridge GD, et al. **AIDS Educ Prev** 1997 Feb;9(1 Suppl):62–76

Rapid KABP survey for evaluation of NGO HIV/AIDS prevention projects. Mercer MA, et al. **AIDS Educ Prev** 1996 Apr;8(2):143–54

Reflections on the design and reporting of STD/HIV behavioral intervention research. O'Leary A, et al. **AIDS Educ Prev** 1997 Feb;9(1 Suppl):1–14

Attitudes about AIDS education and condom availability among parents of high school students in New York City: a focus group approach. Rafferty Y, et al. **AIDS Educ Prev** 1997 Feb;9(1):14–30

Effect of ethnic media on cervical cancer screening rates [see comments] Mitchell H, et al. **Aust N Z J Public Health** 1997 Jun;21(3):265–7. Comment in: Aust N Z J Public Health 1997 Jun;21(3):248–9.

Efficacy of a dating violence prevention program on attitudes justifying aggression. Avery-Leaf S, et al. **J Adolesc Health** 1997 Jul;21(1):11–7

Enhancing motivation to reduce the risk of HIV infection for economically disadvantaged urban women. Carey MP, et al. **J Consult Clin Psychol** 1997 Aug;65(4):531–41

The effect on compliance of a health education leaflet in colorectal cancer screening in general practice in central England. Hart AR, et al. **J Epidemiol Community Health** 1997 Apr;51(2):187–91

Self-concept and self-esteem: a clarification of terms. King KA. **J Sch Health** 1997 Feb;67(2):68–70

Health instruction responsibilities for elementary classroom teachers in Pennsylvania. Patterson S, et al. **J Sch Health** 1996 Jan;66(1):13–7

Evaluating health-related Web sites. Pealer LN, et al. **J Sch Health** 1997 Aug;67(6):232–5

Factors associated with fourth grade health education scores on the Maine Educational Assessment. Stroble LP. **J Sch Health** 1997 Feb;67(2):56–61

Reliability, validity, and composition of a subset of the Centers for Disease Control and Prevention acquired immunodeficiency syndrome knowledge questionnaire in a sample of homeless and impoverished adults. Leake B, et al. **Med Care** 1997 Aug;35(8):747–55

Long-term responses of higher and lower risk youths to smoking prevention interventions. Flynn BS, et al. **Prev Med** 1997 May–Jun;26(3):389–94

Reducing ultraviolet radiation exposure in children. Mayer JA, et al. **Prev Med** 1997 Jul–Aug;26(4):516–22

Social skills training for drug prevention in high-risk female adolescents. Palinkas LA, et al. **Prev Med** 1996 Nov–Dec; 25(6):692–701

Improving breast self-examination compliance: a Southwest Oncology Group randomized trial of three interventions. Strickland CJ, et al. **Prev Med** 1997 May–Jun;26(3):320–32

On evaluating mass media's impact [letter; comment] Valente TW. **Stud Fam Plann** 1997 Jun;28(2):170–2. Comment on: Stud Fam Plann 1996 Jul–Aug;27(4):188–203.

Immediate impact of thirty-two drug use prevention activities among students at continuation high schools. Sussman S, et al. **Subst Use Misuse** 1997 Feb;32(3):265–81

STATISTICS & NUMERICAL DATA

Perceptions of malaria in a low endemic area in the Philippines: transmission and prevention of disease. Espino F, et al. **Acta Trop** 1997 Mar;63(4):221–39

Sources of HIV information among injecting drug users: association with gender, ethnicity, and risk behaviour. AIDS Community Demonstration Projects. Wolitski RJ, et al. **AIDS Care** 1996 Oct;8(5):541–55

The impact of consumer health information provided by libraries: the Delaware experience. Pifalo V, et al. **Bull Med Libr Assoc** 1997 Jan;85(1):16–22

School-based HIV-prevention education—United States, 1994. Division of Adolescent and School Health, CDC. **J Sch Health** 1997 Mar;67(3):103–5

TRENDS

Future directions in obesity and eating disorders. Foreyt JP, et al. **Addict Behav** 1996 Nov–Dec;21(6):767–78 (105 ref.)

Empowerment, community mobilization and social change in the face of HIV/AIDS. Parker RG. **AIDS** 1996 Dec; 10 Suppl 3:S27–31 (20 ref.)

Promoting health and preventing disease: an international perspective on youth health promotion. Nutbeam D. **J Adolesc Health** 1997 May;20(5):396–402

Responsible decision making regarding alcohol: a re-emerging prevention/education strategy for the 1990s. Milgram GG. **J Drug Educ** 1996;26(4):357–65 (11 ref.)

Hypertension awareness, treatment and control in the community: is the 'rule of halves' still valid? Marques-Vidal P, et al. **J Hum Hypertens** 1997 Apr;11(4):213–20 (78 ref.)

Health promotion—its relationship to health education and its implications. MacDonald TH. **J R Soc Health** 1996 Aug; 116(4):219–22 (48 ref.)

A partnership for public health. **Minn Med** 1997 Aug; 80(8):20–4

What do eighth-grade students at South Asheboro Middle School know about basic health? Hendricks WM, et al. **N C Med J** 1996 Sep–Oct;57(5):316–9

UTILIZATION

Depression awareness training and the clergy [letter; comment] Weaver AJ, et al. **Am J Psychiatry** 1997 May; 154(5):717–8. Comment on: Am J Psychiatry 1996 May;153(5):645–9.

HEALTH EDUCATION, DENTAL

The effect of parental dental health behavior on that of their adolescent offspring. Astrøm AN, et al. **Acta Odontol Scand** 1996 Aug;54(4):235–41

Insomnia and oral health [letter] Stillman-Lowe C. **Br Dent J** 1997 Aug 23;183(4):121

The rationale, organisation and evaluation of a campaign to increase the use of sugar-free paediatric medicines. Bentley E, et al. **Community Dent Health** 1997 Mar;14(1):36–40

Oral health education materials; whose business is it anyway? Fuller SS, et al. **Community Dent Health** 1997 Jun; 14(2):66–8

Dental knowledge, attitudes towards oral health care and utilization of dental services among male industrial workers with or without an employer-provided dental benefit scheme. Ahlberg J, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):380–4

Is dental health education effective? A systematic review of current evidence. Kay EJ, et al. **Community Dent Oral Epidemiol** 1996 Aug;24(4):231–5

Multimedia dental patient education systems. Coles B. **J Can Dent Assoc** 1996 Mar;62(3):247–8

Transient effect of a short-term educational programme without prophylaxis on control of plaque and gingival inflammation in school children. Ivanovic M, et al. **J Clin Periodontol** 1996 Aug;23(8):750–7

Call your dentist [letter] Hoolihan K. **N Z Dent J** 1997 Jun; 93(412):53

Knowledge of male and female midwestern college students about baby bottle tooth decay. Logan HL, et al. **Pediatr Dent** 1996 May–Jun;18(3):219–23

Oral health of individuals aged 3–80 years in Jönköping, Sweden in 1973, 1983, and 1993. I. Review of findings on dental care habits and knowledge of oral health. Hugoson A, et al. **Swed Dent J** 1995;19(6):225–41

Parental awareness of dental caries in toddlers. Wendt LK, et al. **Swed Dent J** 1996;20(4):161–4

[The dentition sounded out (editorial)] Weill RD. **Schweiz Monatsschr Zahnmed** 1996;106(7):633, 635 **(Ger, Fre)**

[A comprehensive informational-instructional program for the prevention of stomatological diseases in school: The Day of Stomatological Disease Prevention] Kiseleva EG, et al. **Stomatologiia (Mosk)** 1996;Spec No:23–4 **(Rus)**

[The effect of knowledge regarding the importance of oral health in pregnancy] Slavković V, et al. **Srp Arh Celok Lek** 1997 May–Jun;125(5–6):168–70 (Eng. Abstr.) **(Scc)**

METHODS

Using a children's dental health carnival as a primary vehicle to educate children about oral health. Harn SD, et al. **ASDC J Dent Child** 1996 Jul–Aug;63(4):281–4

Comparison of modes of oral hygiene instruction in improving gingival health. Lim LP, et al. **J Clin Periodontol** 1996 Jul;23(7):693–7

HEALTH EXPENDITURES

see related
HEALTH CARE COSTS

Health care spending, delivery, and outcome in developed countries: a cross-national comparison. Shi L. **Am J Med Qual** 1997 Summer;12(2):83–93

Maternal smoking and medical expenditures for childhood respiratory illness. Stoddard JJ, et al. **Am J Public Health** 1997 Feb;87(2):205–9

Utilisation rates and expenditure for public and private, curative-care services in semi-urban Guatemala. van der Stuyft P, et al. **Ann Trop Med Parasitol** 1997 Mar; 91(2):209–16

US attempts to keep Medicare solvent [news] Charatan FB. **BMJ** 1997 Jun 21;314(7097):1782

What is total purchasing? Total Purchasing National Evaluation Team. Mays N, et al. **BMJ** 1997 Sep 13; 315(7109):652–5

A purchaser experience of managing new expensive drugs: interferon beta [see comments] Rous E, et al. **BMJ** 1996 Nov 9;313(7066):1195–6. Comment in: BMJ 1996 Nov 9;313(7066):1157–8. Comment in: BMJ 1997 Feb 22;314(7080):600–1. Comment in: BMJ 1997 Feb 22;314(7080):601. Comment in: BMJ 1997 Feb 22;314(7080):601–2. Comment in: BMJ 1997 Feb 22;314(7080):602.

Total purchasing schemes face budget problems [news] Waters J. **BMJ** 1996 Nov 9;313(7066):1166

'Xtra' contractual referrals. Hughes H. **Br J Hosp Med** 1997 May 7–20;57(9):466–7

Drug expenditures for hypertension: an empirical test of an economic model in a French population. Huttin C, et al. **Cah Sociol Demogr Med** 1997 Jan–Mar;37(1):33–52

Re: AP Boulet, G Tessier. Reference-based pricing in British Columbia: implications for cardiologists—an analysis. 1997; 13:46–51 [letter; comment] Kalant N. **Can J Cardiol** 1997 Jul;13(7):640, 689. Comment on: Can J Cardiol 1997 Jan;13(1):46–51.

Value for money in South African health care: findings of a review of health expenditure and finance. Doherty J, et al. **Cent Afr J Med** 1996 Jan;42(1):21–4 (5 ref.)

Gender differences in psychosocial adjustment to chronic pain and expenditures for health care services used. Weir R, et al. **Clin J Pain** 1996 Dec;12(4):277–90

Another look at those OECD numbers [letter] Frankford R. **CMAJ** 1997 Jul 1;157(1):14

Primary care reform: is it time for population-based funding? [editorial] Mowat DL. **CMAJ** 1997 Jul 1;157(1):43–4

Impact of publicly funded contraceptive services on unintended pregnancies and implications for Medicaid expenditures. Forrest JD, et al. **Fam Plann Perspect** 1996 Sep–Oct;28(5):188–95

The Medical Expenditure Panel Survey: a national health information resource. Cohen JW, et al. **Inquiry** 1996–97 Winter;33(4):373–89

The pricing of nursing care. Hendricks J, et al. **J Adv Nurs** 1997 Mar;25(3):454–62 (21 ref.)

How much? [editorial] Landrum SE. **J Ark Med Soc** 1996 Oct;93(5):220–1

Medical expenditures for the treatment of osteoporotic fractures in the United States in 1995: report from the National Osteoporosis Foundation. Ray NF, et al. **J Bone Miner Res** 1997 Jan;12(1):24–35

Fool's gold. Manji I. **J Can Dent Assoc** 1996 Feb;62(2):125–6

Research into purchasing health care: time to face the challenge [see comments] de Wildt G, et al. **J Epidemiol Community Health** 1996 Dec;50(6):611–2. Comment in: J Epidemiol Community Health 1997 Jun;51(3):339.

Medical technology assessment and the role of economic evaluation in health care. Adang EM, et al. **J Eval Clin Pract** 1996 Nov;2(4):287–94

The effect of first-contact care on ambulatory health care expenditures. Becker LA. **J Fam Pract** 1996 Nov; 43(5):435–6

Choice-sensitive health costs. Jindal B. **J La State Med Soc** 1997 Feb;149(2):62–71

Nostalgia ain't what it used to be [comment] Chantler C. **J R Coll Physicians Lond** 1997 Mar–Apr;31(2):123–4. Comment on: J R Coll Physicians Lond 1997 Mar–Apr;31(2):122.

Taking health status into account when setting capitation rates: a comparison of risk-adjustment methods [see comments] Fowles JB, et al. **JAMA** 1996 Oct 23–30; 276(16):1316–21. Comment in: JAMA 1997 Feb 19;277(7):530–1.

Kuwait's health system charges look set to dissuade foreign workers [news] Kandela P. **Lancet** 1997 Jul 5;350(9070):42

Expenditures on services for persons with acquired immunodeficiency syndrome under a Medicaid home and community-based waiver program. Are selection effects important? Anderson KH, et al. **Med Care** 1997 May; 35(5):425–39

Estimated expenditures for essential public health services—selected states, fiscal year 1995. **MMWR Morb Mortal Wkly Rep** 1997 Feb 21;46(7):150–2

Resources and priorities for chronic disease prevention and control, 1994. **MMWR Morb Mortal Wkly Rep** 1997 Apr 4;46(13):286–7

Comparing health expenditure [letter; comment] [see comments] Neutze JM, et al. **N Z Med J** 1996 Oct 11; 109(1031):388. Comment on: N Z Med J 1996 Aug 23;109(1028):325–6. Comment in: N Z Med J 1996 Nov 8;109(1033):431–2.

Government expenditure on health [letter; comment] Poutasi KO. **N Z Med J** 1997 Feb 28;110(1038):62. Comment on: N Z Med J 1996 Mar 22;109(1018):106. Comment on: N Z Med J 1997 Feb 14;110(1037):42.

Health expenditure [letter; comment] [see comments] Poutasi KO. **N Z Med J** 1996 Nov 8;109(1033):431–2. Comment on: N Z Med J 1996 Oct 11;109(1031):388. Comment in: N Z Med J 1997 Jan 24;110(1036):20.

Health expenditure in New Zealand [letter; comment] [see comments] Smart RF. **N Z Med J** 1997 Feb 14;110(1037):42 . Comment on: N Z Med J 1996 Aug 23;109(1028):325–6. Comment in: N Z Med J 1997 Feb 28;110(1038):62.

Morbidity pattern, health care utilization and per capita health expenditure in a rural population of Tamil Nadu [see comments] Rajaratnam J, et al. **Natl Med J India** 1996 Nov-Dec;9(6):259–62. Comment in: Natl Med J India 1997 Mar–Apr;10(2):97–8.

Attitudes to cuts in expenditure and increased fees in health care. Myllykangas M, et al. **Public Health** 1997 Mar; 111(2):71–5

Sickle cell disease expenditures and outcomes [comment] Schechter AN. **Public Health Rep** 1997 Jan–Feb; 112(1):38–9 (9 ref.). Comment on: Public Health Rep 1997 Jan–Feb;112(1):40–3. Comment on: Public Health Rep 1997 Jan–Feb;112(1):44–51. Comment on: Public Health Rep 1997 Jan–Feb;112(1):52–8.

The influence of budget-holding on cost containment and work procedures in primary care clinics. Gross R, et al.

Soc Sci Med 1996 Jul;43(2):173–86

[Control of hospital expenditures] Huguier M. **Chirurgie** 1997; 122(2):122–6 (Eng. Abstr.) **(Fre)**

[Costs of cholecystectomy after the arrival of video–laparoscopic surgery] Saviano MS, et al. **Ann Ital Chir** 1996 Jul–Aug;67(4):463–8 (Eng. Abstr.) **(Ita)**

[Medical expenditure for the elderly and factors related to its geographical variations within Fukuoka Prefecture] Une H. **Nippon Koshu Eisei Zasshi** 1996 Jan;43(1):28–36 (Eng. Abstr.) **(Jpn)**

LEGISLATION & JURISPRUDENCE

Needs–based health care rights. Jindal B, et al. **J La State Med Soc** 1996 Jul;148(7):309–18

Physician responses to global physician expenditure budgets in Canada: a common property perspective. Hurley J, et al. **Milbank Q** 1997;75(3):343–64

Clinton proposes cuts in Medicare spending growth [news] **Minn Med** 1997 Mar;80(3):40

STATISTICS & NUMERICAL DATA

Analysing the cost of health. Dewever A. **Acta Gastroenterol Belg** 1997 Apr–Jun;60(2):168–71

How well do ambulatory care groups predict expenditures on mental health and substance abuse patients? Ettner SL, et al. **Adm Policy Ment Health** 1997 Mar;24(4):339–57

Geographic variation in expenditures for workers' compensation physician claims. Miller TR, et al. **Am J Ind Med** 1997 Jul;32(1):27–34

Measuring state expenditures for core public health functions. **Am J Prev Med** 1995 Nov–Dec;11(6 Suppl):58–73

The impact of payor/provider type on health care use and expenditures among the frail elderly. Experton B, et al. **Am J Public Health** 1997 Feb;87(2):210–6

Economic costs of anxiety disorders. DuPont RL, et al. **Anxiety** 1996;2(4):167–72

Variations in health care expenditure in the Alice Springs Rural District in 1993–94. Warchivker I. **Aust N Z J Public Health** 1996 Feb;20(1):11–3

Public funding for contraceptive, sterilization and abortion services, 1994. Sollom T, et al. **Fam Plann Perspect** 1996 Jul–Aug;28(4):166–73

Service utilization and expenditures for the treatment of panic disorder. Leon AC, et al. **Gen Hosp Psychiatry** 1997 Mar; 19(2):82–8

Can Medicaid long–term care expenditures for the elderly be reduced? Wiener JM. **Gerontologist** 1996 Dec; 36(6):800–11

National health accounts in developing countries: appropriate methods and recent applications. Berman PA. **Health Econ** 1997 Jan–Feb;6(1):11–30 (52 ref.)

The relationship between health expenditures and the age structure of the population in OECD countries. O'Connell JM. **Health Econ** 1996 Nov–Dec;5(6):573–8

Redistributional consequences of community rating. Goldman DP, et al. **Health Serv Res** 1997 Apr;32(1):71–86

Policy ... hey, big spender [news] **Hosp Health Netw** 1996 Sep 20;70(18):12

Monitoring purchaser expenditure patterns. Wilson RC, et al. **IMA J Math Appl Med Biol** 1995 Sep–Dec; 12(3–4):211–23

How will medical savings accounts affect medical spending? Ozanne L. **Inquiry** 1996 Fall;33(3):225–36 (10 ref.)

Transitions in health care use and expenditures among frail older adults by payor/provider type [see comments] Pearlman DN, et al. **J Am Geriatr Soc** 1997 May; 45(5):550–7. Comment in: J Am Geriatr Soc 1997 May;45(5):645–6.

The effect of universal coverage on health expenditures for the uninsured. Short PF, et al. **Med Care** 1997 Feb; 35(2):95–113

Comparing health expenditure [letter; comment] Neutze JM, et al. **N Z Med J** 1997 Jan 24;110(1036):20. Comment on: N Z Med J 1996 Nov 8;109(1033):431–2.

Economic evaluation in schizophrenia. Souêtre E. **Neuropsychobiology** 1997;35(2):67–9

Expenditures for care of children with chronic illnesses enrolled in the Washington State Medicaid program, fiscal year 1993. Ireys HT, et al. **Pediatrics** 1997 Aug;100(2 Pt 1):197–204

Effect of primary care treatment of depression on service use by patients with high medical expenditures. Katzelnick DJ, et al. **Psychiatr Serv** 1997 Jan;48(1):59–64

Health expenditures in Latin America and the Caribbean. Govindaraj R, et al. **Soc Sci Med** 1997 Jan;44(2):157–69

Trends in medical care cost–revisited. Vincenzino JV. **Stat Bull Metrop Insur Co** 1997 Jul–Sep;78(3):10–6

[Relationship between medical expenditures and government–sponsored medical check–ups for the aged] Sekiyama M, et al. **Nippon Koshu Eisei Zasshi** 1996 Nov; 43(11):965–73 (Eng. Abstr.) **(Jpn)**

[Influence of smoking on medical care expense of middle–aged workers] Yamamoto W, et al. **Nippon Koshu Eisei Zasshi** 1996 Aug;43(8):597–605 (Eng. Abstr.) **(Jpn)**

[The federal health expenditure on the uninsured population: Mexico 1980–1995] Lara A, et al. **Salud Publica Mex** 1997 Mar–Apr;39(2):102–9 (Eng. Abstr.) **(Spa)**

TRENDS

The changing health care system in the United States: the need for radiologic outcomes data. Evens RG. **Acad Radiol** 1996 Apr;3 Suppl 1:S7–9

Development of outcomes and cost–effectiveness research protocols. Steinberg EP. **Acad Radiol** 1996 Apr;3 Suppl 1:S5–6

Determinants of US local health department expenditures, 1992 through 1993. Gordon RL, et al. **Am J Public Health** 1997 Jan;87(1):91–5

Health care—past, present, and future [editorial] [see comments] Pearl RM. **Ann Plast Surg** 1997 Feb;38(2):191–2 . Comment in: Ann Plast Surg 1997 Mar;38(3):296–7.

Trends in NHS expenditure [letter] [see comments] Dunnigan MG. **BMJ** 1997 Mar 29;314(7085):974. Comment in: BMJ 1997 Jul 12;315(7100):120–1.

Income class and pharmaceutical expenditure in Canada: 1964–1990. Lexchin J. **Can J Public Health** 1996 Jan–Feb; 87(1):46–50

Private–sector share of health spending hits record level [news] Rafuse J. **Can Med Assoc J** 1996 Sep 15; 155(6):749–50

A four–year comparison of physical health benefit expenditures of mental and physical health claimants. Harlow K. **Community Ment Health J** 1997 Jun; 33(3):189–97

Home care, medical care and the new competitive environment. Neuhauser D. **Disabil Rehabil** 1997 Apr; 19(4):155–7

Tracking health care costs: an update. Ginsburg PB, et al. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):151–5

The slowdown in Medicaid spending growth: will it continue? Holahan J, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):157–63

A defense of alternate–site care [letter; comment] Schaffer C. **Health Aff (Millwood)** 1997 Jan–Feb;16(1):226–8; discussion 228–30. Comment on: Health Aff (Millwood) 1996 Summer;15(2):145–54.

Expenditure on physicians' services in Canada: was Medicare a structural change? Ferguson B. **Health Econ** 1996 Sep–Oct;5(5):409–19

Economic depression and the use of physician services in Finland. Häkkinen U, et al. **Health Econ** 1996 Sep–Oct; 5(5):421–34

The pricing of nursing care. Hendricks J, et al. **J Adv Nurs** 1997 Mar;25(3):454–62 (21 ref.)

Elongation of life expectancy may accompany shift of medical cost to older adults [letter] Sasaki H, et al. **J Am Geriatr Soc** 1997 Feb;45(2):254–5

Federal block grants and state spending: the Alcohol, Drug Abuse, and Mental Health block grant and state agency behavior. Jacobsen K, et al. **J Health Polit Policy Law** 1996 Winter;21(4):753–70

The health system in transition: care, cost, and coverage. Thorpe KE. **J Health Polit Policy Law** 1997 Apr; 22(2):339–61 (24 ref.)

Update and evaluation of Australian guidelines. Industry perspective. Carmine B. **Med Care** 1996 Dec;34(12 Suppl):DS226–32

Diagnosing British health care [letter; comment] Maxwell JG. **N C Med J** 1996 May–Jun;57(3):127. Comment on: N C Med J 1996 Mar–Apr;57(2):92–07.

Mental health expenditures for services for people with severe mental illnesses [see comments] Hollingsworth EJ, et al. **Psychiatr Serv** 1997 Apr;48(4):485–90. Comment in: Psychiatr Serv 1997 Apr;48(4):429.

[In the future will economists determine our therapy? Comments during the European Cardiology Congress (see comments)] Jahrmärker H. **Med Klin** 1996 Jul 15; 91(7):472–6. Comment in: Med Klin 1996 Dec 15;91(12):809–11. **(Ger)**

HEALTH FACILITIES

A neutron activation analysis facility for in vivo measurement of nitrogen and chlorine in children. Borovnicar DJ, et al. **Australas Phys Eng Sci Med** 1996 Dec;19(4):252–63

Out of hours primary care. Patients in inner city east London like primary care centres [letter; comment] Jones M, et al. **BMJ** 1997 Apr 19;314(7088):1198–9. Comment on: BMJ 1997 Jan 18;314(7075):182–6.

Translation of the diabetes nutrition recommendations for health care institutions. American Diabetes Association. **Diabetes Care** 1997 Jan;20(1):106–8 (5 ref.)

Translation of the diabetes nutrition recommendations for health care institutions. Schafer RG, et al. **Diabetes Care** 1997 Jan;20(1):96–105 (63 ref.)

Translation of the diabetes nutrition recommendations for health care institutions: position statement. American Diabetes Association [comment] **J Am Diet Assoc** 1997 Jan; 97(1):52–3. Comment on: J Am Diet Assoc 1997 Jan;97(1):43–51.

Translation of the diabetes nutrition recommendations for health care institutions: technical review [see comments] Schafer RG, et al. **J Am Diet Assoc** 1997 Jan;97(1):43–51 (63 ref.). Comment in: J Am Diet Assoc 1997 Jan;97(1):22. Comment in: J Am Diet Assoc 1997 Jan;97(1):52–3.

Scientific evidence + professional judgment + translation = consistent carbohydrate?[comment] Wheeler ML, et al. **J Am Diet Assoc** 1997 Jan;97(1):22. Comment on: J Am Diet Assoc 1997 Jan;97(1):43–51.

Violence in medical facilities: a review of 40 incidents. Feldmann TB, et al. **J Ky Med Assoc** 1997 May;95(5):183–9 (21 ref.)

Quality management strategies in alternate sites of care. Srp F, et al. **Nutrition** 1996 Nov–Dec;12(11–12):832–3

Issues for optometrists relating to interprofessional relations in a hospital and medical center. Walls LL. **Optom Vis Sci** 1996 May;73(5):307–8

High proportion of multi–drug resistant Mycobacterium tuberculosis in Saudi Arabia [letter; comment] al–Mazrou YY, et al. **Scand J Infect Dis** 1997;29(3):323. Comment on: Scand J Infect Dis 1996;28(6):591–5.

Gamma unit facility: concept genesis, architectural design and practical realization. LeMay DR, et al. **Stereotact Funct Neurosurg** 1996;66(1–3):41–9

Injection practices in Mwanza Region, Tanzania: prescriptions, patient demand and sterility. Gumodoka B, et al. **Trop Med Int Health** 1996 Dec;1(6):874–80

[Epidemiologic study of hepatitis C virus infections in the population monitored by the former Local Health Unit 10] Zanardi G, et al. **Minerva Gastroenterol Dietol** 1996 Sep; 42(3):127–31 (Eng. Abstr.) **(Ita)**

[Damage of ophthalmic clinical institutes by the Great Hanshin Earthquake and countermeasures against earthquakes (letter)] Tabuchi A, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr;101(4):366–7 **(Jpn)**

HISTORY

[20th anniversary of the opening of the new Urologic Clinic facility at Charles University Medical School in Prague] Dvořáček J. **Cas Lek Cesk** 1996 Dec 4;135(23):772–4 **(Cze)**

[The 2nd Eye Clinic of the Pediatric Eye Clinic in Motol] Lomičková H. **Cesk Slov Oftalmol** 1996 Nov;52 Suppl:10–2 **(Cze)**

[50 years of the Eye Clinic in Hradec Králové] Svěrák J. **Cesk Slov Oftalmol** 1995 Oct;51(5):326–8 **(Cze)**

LEGISLATION & JURISPRUDENCE

Reporting requirements under the Safe Medical Devices Act. Harris AV, et al. **AORN J** 1996 Sep;64(3):460–2

The powdered latex glove war. Romig CL. **AORN J** 1997 Jul;66(1):152–3

Police free to bug surgeries [news] Warden J. **BMJ** 1997 Aug 23;315(7106):446

Backflow prevention devices required for medical facilities on many public water systems. Eans TL. **J Ark Med Soc** 1996 Aug;93(3):125–7

An update to the medical device reporting requirements of the Safe Medical Device Act. Shepherd M, et al. **J Cardiovasc Nurs** 1997 Jan;11(2):75–81

Letter from North America. Medical practice and criminal law [news] Silva YJ. **Natl Med J India** 1996 Jan–Feb; 9(1):41–2

ORGANIZATION & ADMINISTRATION

Basic principles of information technology organization in health care institutions. Mitchell JA. **J Am Med Inform Assoc** 1997 Mar–Apr;4(2 Suppl):S31–5; discussion S36–40

A descriptive survey of management and operations at selected sports medicine centers in the United States. Olsen D. **J Orthop Sports Phys Ther** 1996 Nov;24(5):315–22

Successful health and safety management. Doidge JP. **Perfusion** 1997 Jul;12(4):217–20

Developing health in the Cape [news] Jones JS. **S Afr Med J** 1997 May;87(5):570

Material resources are not enough: good management is the key to effectiveness. de Winter ER. **World Health Forum** 1996;17(1):49–51

[Specialists in health centers (and II): a non emphasized response for an emphasis without response (letter)] Simó Miñana J, et al. **Med Clin (Barc)** 1997 Jan 25;108(3):118–9 **(Spa)**

STANDARDS

Six challenges in measuring the quality of health care [see comments] McGlynn EA. **Health Aff (Millwood)** 1997 May–Jun;16(3):7–21. Comment in: Health Aff (Millwood) 1997 May–Jun;16(3):22–5.

Organizational guidelines for therapeutic apheresis facilities. American Society for Apheresis Standards and Education Committee. **J Clin Apheresis** 1996;11(1):42–5

Putting it (performance measures) together: an interview with Jerod Loeb [interview by Steven Berman] Loeb J. **Jt Comm J Qual Improv** 1996 Jul;22(7):518–26

[Tools for assessing the quality of care in health facilities. Experience in Ferrara] Azzena G, et al. **Ann Ital Chir** 1996 May–Jun;67(3):375–9 (Eng. Abstr.) **(Ita)**

STATISTICS & NUMERICAL DATA

[Surgical activity in health care facilities] Coladon B, et al. **Chirurgie** 1997;122(2):117–21 (Eng. Abstr.) **(Fre)**

SUPPLY & DISTRIBUTION

Annual facility survey of providers of ESRD therapy. USRDS. United States Renal Data System. **Am J Kidney Dis** 1997 Aug;30(2 Suppl 1):S178–86

HEALTH FACILITIES

UTILIZATION

Impact of pharmacist-operated general medicine chronic care refill clinics on practitioner time and quality of care. Cassidy IB, et al. **Ann Pharmacother** 1996 Jul-Aug; 30(7-8):745-51

Co-morbidity analysis: a strategy for understanding mortality, disability and use of health care facilities of older people. Cornoni-Huntley JC, et al. **Int J Epidemiol** 1991; 20 Suppl 1:S8-17 (19 ref.)

HEALTH FACILITIES, PROPRIETARY

ECONOMICS

The new health care game [letter; comment] Schwartz GR. **N Engl J Med** 1997 Jan 2;336(1):72-3. Comment on: N Engl J Med 1996 Aug 8;335(6):433.

ORGANIZATION & ADMINISTRATION

Consolidation of pharmacy departments in a regional health system. Kienle PC. **Am J Health Syst Pharm** 1997 May 1;54(9):1076-9

A for-profit health plan's experience and strategy. Herbert ME. **Health Aff (Millwood)** 1997 Mar-Apr;16(2):121-4

Nonprofit versus for-profit health plans [letter; comment] Lawrence D. **Health Aff (Millwood)** 1996 Spring; 15(1):237-9. Comment on: Health Aff (Millwood) 1995 Winter;14(4):5-6.

STANDARDS

Humana gets happy. But can its new look and customer-friendly attitude reverse an earnings slump? Greene J. **Hosp Health Netw** 1997 May 5;71(9):34, 36

HEALTH FACILITY ACQUISITION see **HEALTH FACILITY MERGER**

HEALTH FACILITY ADMINISTRATORS

Poles apart? The views of general practitioners and family health services authority advisers on prescribing cost issues. Avery AJ, et al. **Br J Gen Pract** 1997 Jun;47(419):347-51

ECONOMICS

Gender and compensation in health care management. Weil PA, et al. **Health Care Manage Rev** 1996 Summer; 21(3):19-33

ORGANIZATION & ADMINISTRATION

[Scientific management of the work of medical personnel and the improvement in manager professionalism in public health] Kryshtopa BP, et al. **Lik Sprava** 1996 Jan-Feb; (1-2):173-5 **(Rus)**

PSYCHOLOGY

Quality improvement in nursing care facilities: extent, impetus, and impact. Zinn JS, et al. **Am J Med Qual** 1997 Spring;12(1):51-61

Program administrator and medical staff attitudes toward six hypothetical medications for substance abuse treatment. Finn P. **J Psychoactive Drugs** 1996 Apr-Jun;28(2):161-8

STANDARDS

Orientational research into dismissed managers in health care. Moen J, et al. **Health Care Manage Rev** 1997 Summer; 22(3):92-6

[New order of the Italian health system and the contractual management of its business and health facilities. 2: Professional requirements for assuming and discharging the positions or duties of management directors] Alati E, et al. **Ann Ig** 1997 May-Jun;9(3):249-60 **(Ita)**

STATISTICS & NUMERICAL DATA

The 1997 Hospitals & Health Networks leadership survey. Greene J. **Hosp Health Netw** 1997 Aug 5;71(15):26-30, 32-6, 38-40

African American administrators in community/migrant health centers. Glover SH, et al. **J Health Care Poor Underserved** 1997 May;8(2):153-69

HEALTH FACILITY CLOSURE

"Unbundling" of state hospital services in the community: the Philadelphia State Hospital story. Rothbard AB, et al. **Adm Policy Ment Health** 1997 May;24(5):391-8

Will hospital closures mean physician unemployment in Ontario? Gray C. **Can Med Assoc J** 1997 Jun 1; 156(11):1614-6

Closure of an asylum: the Friern study of older people. Shergill S, et al. **Int J Geriatr Psychiatry** 1997 Jan; 12(1):119-23

Closing state mental hospitals in Massachusetts: policy, process, and impact. Upshur CC, et al. **Int J Law Psychiatry** 1997 Spring;20(2):199-217 (65 ref.)

Psychiatric nurses' satisfaction: the effects of closure of a hospital. Sammut RG. **J Adv Nurs** 1997 Jul;26(1):20-4

The impact of the closing of three Massachusetts public chronic disease hospitals: a multidimensional perspective. Caro FG, et al. **J Community Health** 1997 Jun;22(3):155-74

A critique of an evaluation of the impact of hospital bed closures in Winnipeg, Canada: lessons to be learned from evaluation research methods. Vingilis E, et al. **J Public Health Policy** 1996;17(4):409-25

[Don't shoot the wrong piano-player! (letter)] Schött F. **Lakartidningen** 1997 Feb 19;94(8):604 **(Swe)**

ECONOMICS

Activists. Shuttered hospital's second chance. Swan H. **Hosp Health Netw** 1997 Mar 20;71(6):86, 88

The effect of rural hospital closures on the financial performance of neighboring rural hospitals. McKay NL, et al. **Inquiry** 1996 Fall;33(3):271-82

STATISTICS & NUMERICAL DATA

Effects of market position and competition on rural hospital closures. Succi MJ, et al. **Health Serv Res** 1997 Feb; 31(6):679-99

Finance ... the hospital field keeps shrinking [news] **Hosp Health Netw** 1996 Dec 20;70(24):10

"Do not go gentle into that good night": when a psychiatric hospital closes. Craig CQ. **Psychiatr Serv** 1997 Apr; 48(4):541-2

TRENDS

The TAPS project. 36: the most difficult to place long-stay psychiatric in-patients. Outcome one year after relocation. Team for the Assessment of Psychiatric Services. Trieman N, et al. **Br J Psychiatry** 1996 Sep;169(3):289-92

As hospitals shrink, consolidate or close, physicians are swept up in the turmoil. Baer N. **Can Med Assoc J** 1996 Oct 15;155(8):1166-9

The future for district general hospitals and their A&E departments [see comments] Leaman AM. **J Accid Emerg Med** 1996 Nov;13(6):418-9. Comment in: J Accid Emerg Med 1997 May;14(3):201.

A state mental health system with no state hospital: the Vermont plan ten years later. Kincheloe M. **Psychiatr Serv** 1997 Aug;48(8):1078-80

[Current forum. 40 years German Central Unit for Public Health Care--the German Central Unit for Public Health Care was discontinued June 1996] Labisch A, et al. **Gesundheitswesen** 1996 Dec;58(12):685-90 (Eng. Abstr.) **(Ger)**

HEALTH FACILITY CONVERSION see **HEALTH FACILITY PLANNING**

HEALTH FACILITY ENVIRONMENT

Development of a neurological rehabilitation environment: an observational study. Newall JT, et al. **Clin Rehabil** 1997 May;11(2):146-55

Transfer of spatial information from a virtual to a real environment in physically disabled children. Wilson PN, et al. **Disabil Rehabil** 1996 Dec;18(12):633-7

The relationship between patient behaviour and environmental quality for the dementing. Bowie P, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):718-23

The family metaphor applied to nursing home life. Nyström AE, et al. **Int J Nurs Stud** 1996 Jun;33(3):237-48

Listening in the care environment--chaos or clarity for the hearing-impaired elderly person. Tolson D, et al. **Int J Nurs Stud** 1997 Jun;34(3):173-82

The clinical learning environment. Rotem A, et al. **Isr J Med Sci** 1996 Sep;32(9):705-10 (31 ref.)

Using multi-sensory environments with older people with dementia. Hope K. **J Adv Nurs** 1997 Apr;25(4):780-5

Effects of an environmental manipulation emphasizing client-centred care on agitation and sleep in dementia sufferers in a nursing home. Matthews EA, et al. **J Adv Nurs** 1996 Sep;24(3):439-47

Effects of critical care unit noise on the subjective quality of sleep. Topf M, et al. **J Adv Nurs** 1996 Sep;24(3):545-51

Hospitalized patients' satisfaction with caregivers' conduct and physical surroundings. Pilpel D. **J Gen Intern Med** 1996 May;11(5):312-4

Comparative hygienic surveillance of contamination with pseudomonads in a cystic fibrosis ward over a 4-year period. Bosshammer J, et al. **J Hosp Infect** 1995 Dec; 31(4):261-74

Development and Psychometric evaluation of an instrument to measure staff nurses' perception of uncertainty in the hospital environment. Salyer J. **J Nurs Meas** 1996 Summer; 4(1):33-48

The Hammersmith. Baron JH. **J R Soc Med** 1997 Apr; 90(4):229

Addenbrooke's art and murals. Cannon WG. **J R Soc Med** 1996 Dec;89(12):720

Bert Irvin's Hollywood at Chelsea & Westminster Hospital. Loppert S. **J R Soc Med** 1996 Sep;89(9):519-20

The Bird Garden at the West Dorset Hospital. Pitt-Rivers V. **J R Soc Med** 1997 Feb;90(2):113

WAWA-SHSH Homerton Hospital, East London. Shand W. **J R Soc Med** 1997 Jan;90(1):55

Environments that support ethical practice. Rushton CH, et al. **New Horiz** 1997 Feb;5(1):20-9 (55 ref.)

[The communal hygiene problems of hospital institutions] Toshkov S, et al. **Probl Khig** 1996;21:14-20 (Eng. Abstr.) **(Bul)**

[The microclimate conditions of the environment for treating patients in hospital clinics and wards (a review)] Toshkov S. **Probl Khig** 1996;21:20-6 (20 ref.) (Eng. Abstr.) **(Bul)**

STANDARDS

Recommended practices for environmental cleaning in the surgical practice setting. Association of Operating Room Nurses. **AORN J** 1996 Oct;64(4):611-5

Access and utilization: a continuum of health service environments. Rosenberg MW, et al. **Soc Sci Med** 1996 Sep;43(6):975-83

TRENDS

The neonatal intensive care environment: a look to the future [editorial; comment] Martin GI. **J Perinatol** 1996 Sep-Oct; 16(5):325. Comment on: J Perinatol 1996 Sep-Oct;16(5):381-4.

Enhanced neonatal intensive care design: a physiological approach [see comments] White RD. **J Perinatol** 1996 Sep-Oct;16(5):381-4. Comment in: J Perinatol 1996 Sep-Oct;16(5):325.

HEALTH FACILITY MERGER

Achievement of substantial cost reduction through joint purchasing by the radiology departments of a large vertically integrated health care system. Bramson RT, et al. **Acad Radiol** 1997 Jan;4(1):64-6

Hospital mergers and reproductive health care. Donovan P. **Fam Plann Perspect** 1996 Nov-Dec;28(6):281-4

Mergers/acquisitions. Selling--or selling out [news] **Hosp Health Netw** 1997 Mar 5;71(5):14

Tenet+Columbia? Not so fast [news] Blecher MB. **Hosp Health Netw** 1997 Aug 20;71(16):24-5

Acquisitions. Where others fear to tread. Firshein J. **Hosp Health Netw** 1997 Aug 5;71(15):74, 76

Not-for-profits. Two HMOs play 'Let's make a deal'. Hagland M. **Hosp Health Netw** 1996 Nov 5;70(21):64, 66

Second thoughts on selling [interview by Chris Serb] Lofton K. **Hosp Health Netw** 1997 Jun 20;71(12):34

This hospital for sale. Bidders for AtlantiCare Medical Center courted a tough customer: the community [news] Meyer H. **Hosp Health Netw** 1997 May 20;71(10):32, 34

Alliances. Survival of the biggest. Nordhaus-Bike AM. **Hosp Health Netw** 1997 Jun 20;71(12):68

Mergers. So much for collegiality. Serb C. **Hosp Health Netw** 1997 Jul 5;71(13):42, 44

Should you sell your practice? Collins H. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):93-4

Mergers and re-engineering--possible implications for allied health students (the Minnesota Story). Karni KR. **J Allied Health** 1997 Winter;26(1):35-40

Religious freedom, reproductive health care, and hospital mergers. Gallagher J. **J Am Med Womens Assoc** 1997 Spring;52(2):65-8

A viable option for community hospitals: the El Dorado experience. Wilson LM. **J Ark Med Soc** 1997 Aug; 94(3):109-10

The merger of New York University and Mount Sinai Medical Centers: students voice their opinions. Batouli AR, et al. **JAMA** 1996 Dec 4;276(21):1772

The merger of Stanford's and UCSF's clinical enterprises: impact on education. Bauer EA, et al. **JAMA** 1996 Dec 4;276(21):1770-1

The Hahnemann University-Medical College of Pennsylvania merger: a historical and personal perspective. Doyle TJ. **JAMA** 1996 Dec 4;276(21):1773

The folly of teaching-hospital mergers [see comments] Andreopoulos S. **N Engl J Med** 1997 Jan 2;336(1):61-4. Comment in: N Engl J Med 1997 Jun 12;336(24):1762; discussion 1763. Comment in: N Engl J Med 1997 Jun 12;336(24):1762-3.

The folly of teaching-hospital mergers [letter; comment] Bauer EA. **N Engl J Med** 1997 Jun 12;336(24):1762-3. Comment on: N Engl J Med 1997 Jan 2;336(1):61-4.

Columbia/HCA and the hospital business [letter; comment] Burke EL. **N Engl J Med** 1996 Dec 19;335(25):1921; discussion 1922. Comment on: N Engl J Med 1996 Aug 1;335(5):362-7. Comment on: N Engl J Med 1996 Aug 8;335(6):446-51.

Physician-operated networks and antitrust regulations [letter] Hasan MM. **N Engl J Med** 1997 Jul 3;337(1):56

Columbia/HCA and the hospital business [letter; comment] Kaplan LR. **N Engl J Med** 1996 Dec 19;335(25):1920-1; discussion 1922. Comment on: N Engl J Med 1996 Aug 1;335(5):362-7. Comment on: N Engl J Med 1996 Aug 8;335(6):446-51.

The folly of teaching-hospital mergers [letter; comment] Speck WT. **N Engl J Med** 1997 Jun 12;336(24):1762; discussion 1763. Comment on: N Engl J Med 1997 Jan 2;336(1):61-4.

Universities approve hospital merger [news] Lehrman S. **Nature** 1996 Nov 21;384(6606):200

Merger and acquisition medicine. Powell GS. **Occup Med** 1997 Jan-Mar;12(1):163-8 (6 ref.)

Merger mania. It's feeding time. Is your hospital on the menu? BeSaw L. **Tex Med** 1996 May;92(5):38-44

ECONOMICS

The role of investment bankers in nonprofit conversions. Anderson GF. **Health Aff (Millwood)** 1997 Mar-Apr;

16(2):144–7
Nonprofit hospitals: bargain prices? [letter; comment] Johnson RL. **Health Aff (Millwood)** 1997 Jul–Aug; 16(4):284–6. Comment on: Health Aff (Millwood) 1997 Mar–Apr;16(2):29–47.
The conversion game: high stakes, few rules. Miller LB. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):112–7
Tacit collusion among hospitals in price competitive markets. Mobley LR. **Health Econ** 1996 May–Jun;5(3):183–93 (43 ref.)
Hospital mergers and market overlap. Brooks GR, et al. **Health Serv Res** 1997 Feb;31(6):701–22
Long–term care ... average purchase prices of nursing homes and retirement facilities [news] **Hosp Health Netw** 1997 Jun 5;71(11):13–4
Foundations. Show us the money. Blecher MB. **Hosp Health Netw** 1997 Jun 20;71(12):52–4
Speed demon. Does the Pacificare/FHP merger signal a new race for market dominance? [news] Hagland M. **Hosp Health Netw** 1996 Sep 20;70(18):18–20
Gamblin' man. Serb C. **Hosp Health Netw** 1997 Sep 5; 71(17):68, 70, 72
The costs of mergers and acquisitions in the U.S. health care sector. Bond P, et al. **Int J Health Serv** 1997;27(1):77–87
The new health care game [letter; comment] Fermaglich J. **N Engl J Med** 1997 Jan 2;336(1):72. Comment on: N Engl J Med 1996 Aug 8;335(6):433.

LEGISLATION & JURISPRUDENCE

Night landings on an aircraft carrier: hospital mergers and antitrust law. Greaney TL. **Am J Law Med** 1997; 23(2–3):191–220
The conversion conundrum: the state and federal response to hospitals' changes in charitable status. Singer LE. **Am J Law Med** 1997;23(2–3):221–50
The Massachusetts experience. Allen RC. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):85–8
State policy issues in nonprofit conversions. Butler PA. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):69–84 (38 ref.)
Investing in the twenty–first century hospital. Manning DL. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):108–11
A road map from Nebraska. Matzke GE. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):89–91
The view from Ohio. Mayton CR. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):92–5
The California model. Schwartz JR. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):96–8
State experience in regulating a changing health care system. Shriber D. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):48–68 (38 ref.)
A 'major revolution' in Texas. Vinson JW. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):99–101
Mergers/acquisitions ... health care not–for–profits in Columbia, S.C. [news] **Hosp Health Netw** 1997 Jun 20; 71(12):25
Target practice. In California and elsewhere, state officials are taking shots at hospital sales to for–profits [news] Novarro L. **Hosp Health Netw** 1996 Dec 20;70(24):16–7
Deal makers, deal breakers. Schwartz JR, et al. **Hosp Health Netw** 1997 Sep 5;71(17):62, 64, 66
Access law threat to medical merger [news] Lehrman S. **Nature** 1997 May 22;387(6631):329
[The university and primary care: reflexions on the current situation (editorial)] Buitrago F. **Aten Primaria** 1996 Oct 31;18(7):345–7 **(Spa)**

MANPOWER

The effects of hospital characteristics and radical organizational change on the relative standing of health care professions. Leicht KT, et al. **J Health Soc Behav** 1995 Jun;36(2):151–67

ORGANIZATION & ADMINISTRATION

Our past is their future: the formation, development, and sale of M.D. Health Plan. Deren MM, et al. **Conn Med** 1996 Oct;60(10):609–12
The preservation of charitable health care assets. Bell J, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):125–30
Public policy issues in nonprofit conversions: an overview. Claxton G, et al. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):9–28 (44 ref.)
The sale of Good Samaritan: a view from the trenches. Coye MJ. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):102–7
Conversion of HMOs and hospitals: what's at stake? [see comments] Gray BH. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):29–47 (43 ref.). Comment in: Health Aff (Millwood) 1997 Jul–Aug;16(4):284–6.
A for–profit health plan's experience and strategy. Herbert ME. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):121–4
Strategic and economic factors in the hospital conversion process. Hollis SR. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):131–43
Some guidelines for managing charitable assets from conversions. Kane NM. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):229–37
A premerger profile of Columbia and HCA hospitals. McCue MJ. **Health Care Manage Rev** 1996 Spring;21(2):38–45
Non–profit conversions: a challenge and an opportunity for health services research with a clear "public benefit" [editorial] DeFriese GH. **Health Serv Res** 1996 Dec; 31(5):513–6
Crisis control. A surefire merger. Lumsdon K. **Hosp Health Netw** 1996 Nov 20;70(22):37–8
Deals that went down the drain. Lumsdon K. **Hosp Health Netw** 1996 Nov 20;70(22):20–4
Dealbreakers. Lost in the fast lane. Montague J. **Hosp Health Netw** 1997 Feb 20;71(4):34
The art of the deal [interview by Joe Flower] Neale M. **Hosp Health Netw** 1997 Apr 5;71(7):38, 40
Mergers. A dangerous liaison. Rice TT. **Hosp Health Netw** 1997 Mar 20;71(6):77
Power pair. Savage T. **Hosp Health Netw** 1997 Mar 20; 71(6):62–4
H. Richard Nesson, MD [interview] Nesson HR. **J Investig Med** 1997 Feb;45(2):14–9
The value of one. Kirschner S. **J Med Assoc Ga** 1996 Nov; 85(4):245–6
Research–based planning for change: assessing nurses' attitudes toward governance and professional practice autonomy after hospital acquisition. George VM, et al. **J Nurs Adm** 1997 May;27(5):53–61
Weathering mergers: advice for physicians and medical staff. Johnson L. **Pa Med** 1997 Apr;100(4):12–4

STANDARDS

Why we want to remain a nonprofit health care organization. Lawrence D. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):118–20

STATISTICS & NUMERICAL DATA

Hospital conversion trends. Needleman J, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):187–95

TRENDS

Not–for–profits. Closing in on Columbia? Appleby C. **Hosp Health Netw** 1997 Mar 20;71(6):83, 86
Managed care and merger mania [see comments] Fuchs VR. **JAMA** 1997 Mar 19;277(11):920–1. Comment in: JAMA 1997 Jun 25;277(24):1934.
A lofty mission. Gorrill D. **Minn Med** 1996 Mar;79(3):16–24

HEALTH FACILITY MOVING

Note on forced institutional relocation of nursing home residents [comment] Thorson JA. **Psychol Rep** 1996 Apr; 78(2):482. Comment on: Psychol Rep 1996 Feb;78(1):339–48.

HEALTH FACILITY PLANNING

see related
FACILITY DESIGN AND CONSTRUCTION

Faster. Stronger. Private? Stunted by politics and high costs, public hospitals convert to compete. Hudson T. **Hosp Health Netw** 1997 Jul 5;71(13):22–4, 26
Visionary planning for the radiology department of the future [editorial] Stein MA. **Radiographics** 1996 Mar;16(2):439–42
[Health care needs of the elderly in long–term care facilities and their suitable placements for care] Yamazaki K, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):257–64 (Eng. Abstr.) **(Jpn)**

ECONOMICS

The role of investment bankers in nonprofit conversions. Anderson GF. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):144–7
Anticipating the magic moment: the public interest in health plan conversions in California. Fox DM, et al. **Health Aff (Millwood)** 1996 Spring;15(1):202–9
The conversion game: high stakes, few rules. Miller LB. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):112–7

LEGISLATION & JURISPRUDENCE

The Massachusetts experience. Allen RC. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):85–8
State policy issues in nonprofit conversions. Butler PA. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):69–84 (38 ref.)
Investing in the twenty–first century hospital. Manning DL. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):108–11
A road map from Nebraska. Matzke GE. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):89–91
The view from Ohio. Mayton CR. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):92–5
The California model. Schwartz JR. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):96–8
State experience in regulating a changing health care system. Shriber D. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):48–68 (38 ref.)
A 'major revolution' in Texas. Vinson JW. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):99–101

ORGANIZATION & ADMINISTRATION

Trends in siting strategies. Zippay A. **Community Ment Health J** 1997 Aug;33(4):301–10
The preservation of charitable health care assets. Bell J, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):125–30
Public policy issues in nonprofit conversions: an overview. Claxton G, et al. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):9–28 (44 ref.)
The sale of Good Samaritan: a view from the trenches. Coye MJ. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):102–7
Conversion of HMOs and hospitals: what's at stake? [see comments] Gray BH. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):29–47 (43 ref.). Comment in: Health Aff (Millwood) 1997 Jul–Aug;16(4):284–6.
A for–profit health plan's experience and strategy. Herbert ME. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):121–4
Strategic and economic factors in the hospital conversion process. Hollis SR. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):131–43
Some guidelines for managing charitable assets from conversions. Kane NM. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):229–37

STANDARDS

Conversions ... for–profit conversions are a hot issue for executives [news] **Hosp Health Netw** 1997 Aug 5; 71(15):12–3

STATISTICS & NUMERICAL DATA

Hospital conversion trends. Needleman J, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):187–95

TRENDS

Infrastructure for radiotherapy in The Netherlands: development from 1970 to 2010. van Daal WA, et al. **Int J Radiat Oncol Biol Phys** 1997 Jan 15;37(2):411–5

HEALTH FACILITY SIZE

The reported availability of general practitioners and the influence of practice list size. Campbell JL. **Br J Gen Pract** 1996 Aug;46(409):465–8
Community living–unit size, staff presence, and residents' choice–making. Stancliffe RJ. **Ment Retard** 1997 Feb; 35(1):1–9
Case mix in the "downsizing" state hospital. Fisher WH, et al. **Psychiatr Serv** 1996 Mar;47(3):255–62

ECONOMICS

Technical, scale, and size efficiency in nursing home care: a nonparametric analysis of Connecticut homes. Chattopadhyay S, et al. **Health Econ** 1996 Jul–Aug; 5(4):363–73

LEGISLATION & JURISPRUDENCE

[Health care contract—position from the viewpoint of small routine health centers] Sänger V. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:678–9 (Eng. Abstr.) **(Ger)**

TRENDS

Hospital downsizing and patients' assaults on staff. Flannery RB Jr, et al. **Psychiatr Q** 1997 Spring;68(1):67–76
Clinical and human resource planning for the downsizing of psychiatric hospitals: the British Columbia experience. Macfarlane D, et al. **Psychiatr Q** 1997 Spring;68(1):25–42

HEALTH FAIRS

Using a children's dental health carnival as a primary vehicle to educate children about oral health. Harn SD, et al. **ASDC J Dent Child** 1996 Jul–Aug;63(4):281–4

ORGANIZATION & ADMINISTRATION

Designing a successful health fair to promote individual, family, and community health. Dillon DL, et al. **J Community Health Nurs** 1997;14(1):1–14
Health fair for the homeless. Schwartz P, et al. **J Pediatr Nurs** 1996 Dec;11(6):399–400

HEALTH FOOD

see related
DIET, MACROBIOTIC

Main hypotheses on diet and cancer investigated in the EPIC Study. European Prospective Investigation into Cancer and Nutrition. Bueno–de–Mesquita HB, et al. **Eur J Cancer Prev** 1997 Apr;6(2):107–17 (95 ref.)
Super hype for super hormones [editorial] Butler RN. **Geriatrics** 1997 Feb;52(2):13–4
Patterns of clinical mastitis manifestations in Danish organic dairy herds. Vaarst M, et al. **J Dairy Res** 1997 Feb; 64(1):23–37
[Chemicals in agriculture and problems of ecologically clean and biologically full–value food products] Ladonin VF. **Vopr Pitan** 1996;(4):19–23 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Allergic reaction involving liver dysfunction and disseminated intravascular coagulation caused by a health food, Proporis. Takeshita A, et al. **Intern Med** 1995 Dec; 34(12):1207–9

STATISTICS & NUMERICAL DATA

Dietary supplement users: demographics, product use, and medical system interaction. Eliason BC, et al. **J Am Board Fam Pract** 1997 Jul–Aug;10(4):265–71

HEALTH INSURANCE

HEALTH INSURANCE see **INSURANCE, HEALTH**

HEALTH INSURANCE FOR AGED AND DISABLED, TITLE 18 see **MEDICARE**

HEALTH INSURANCE REIMBURSEMENT see **INSURANCE, HEALTH, REIMBURSEMENT**

HEALTH INSURANCE, VOLUNTARY see **INSURANCE, HEALTH**

HEALTH LEGISLATION see **LEGISLATION**

HEALTH MAINTENANCE ORGANIZATIONS

Emergency department authorization for health maintenance organizations? Just say no! [letter; comment] Bitterman RA. **Acad Emerg Med** 1996 Dec;3(12):1172–6. Comment on: Acad Emerg Med 1996 Apr;3(4):338–44.

Alcohol use and medical care utilization among health maintenance organization patients in the emergency department [see comments] Cherpitel CJ, et al. **Acad Emerg Med** 1996 Feb;3(2):106–13. Comment in: Acad Emerg Med 1996 Feb;3(2):95–7.

The impact of health maintenance organization care authorization policy on an emergency department before California's new managed care law [see comments] Derlet RW, et al. **Acad Emerg Med** 1996 Apr;3(4):338–44. Comment in: Acad Emerg Med 1996 Dec;3(12):1172–6.

If you're dead, press 9 [editorial] Pfeiffer RB Jr. **Ala Med** 1996 Feb–Apr;65(8–10):27

Managed care and alternative medicine: who will manage what, and how? Rossman ML, et al. **Altern Ther Health Med** 1997 May;3(3):63–8

Building clinical decision–support systems to profile physician practice and develop guidelines in a staff–model HMO [see comments] Eichelberger B. **Am J Health Syst Pharm** 1997 Jul 1;54(13):1510–5. Comment in: Am J Health Syst Pharm 1997 Jul 1;54(13):1501.

Adverse drug reaction monitoring in the HMO setting. Pepping J. **Am J Health Syst Pharm** 1996 Sep 1; 53(17):2027–8

Reliability and validity of medical outcome and patient satisfaction measures among injured workers in Washington State: a pretest. Kyes KB, et al. **Am J Ind Med** 1997 Apr; 31(4):427–34

The ethical and legal ramifications of managed care [editorial] Howard ML. **Am J Otol** 1996 Jul;17(4):503–5

Activating patients to practice skin cancer prevention: response to mailed materials from physicians versus HMOs. Gerbert B, et al. **Am J Prev Med** 1997 May–Jun; 13(3):214–20

Annotation: patients on the auction block. Woolhandler S, et al. **Am J Public Health** 1996 Dec;86(12):1699–700

Why I am an optimist about managed care [editorial] Constantian MB. **Ann Plast Surg** 1996 Jun;36(6):655–7

Medical ethics under managed care: how can the patient survive? Webb MS. **Ann Plast Surg** 1996 Sep;37(3):233–44 (49 ref.)

Rural physicians, rural networks, and free market health care in the 1990s. Rosenthal TC, et al. **Arch Fam Med** 1997 Jul–Aug;6(4):319–23 (59 ref.)

A multifaceted intervention to improve treatment of depression in primary care. Katon W, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):924–32

Subthreshold psychiatric symptoms in a primary care group practice. Olfson M, et al. **Arch Gen Psychiatry** 1996 Oct; 53(10):880–6

Perioperative management of colon cancer under Medicare risk programs. Retchin SM, et al. **Arch Intern Med** 1997 Sep 8;157(16):1878–84

Outdated diagnoses, managed care and our own future [letter] Horgan D. **Aust N Z J Psychiatry** 1996 Dec;30(6):877–8

Primary managed care in Europe [editorial] Ham C. **BMJ** 1997 Feb 15;314(7079):457

GPs and health authority believe that locality commissioning will improve services [letter] Janowski RF, et al. **BMJ** 1997 Sep 13;315(7109):681–2

The effect of patient and physician reminders on use of screening mammography in a health maintenance organization. Results of a randomized controlled trial. Burack RC, et al. **Cancer** 1996 Oct 15;78(8):1708–21

Population–based care of depression: effective disease management strategies to decrease prevalence. Katon W, et al. **Gen Hosp Psychiatry** 1997 May;19(3):169–78 (39 ref.)

Managed care ... alternative medicine [news] **Hosp Health Netw** 1996 Dec 20;70(24):10–1

Health reform. Kaiser goes globe–trotting. Hagland M. **Hosp Health Netw** 1996 Nov 20;70(22):40, 42

HMOs and medical technology. Bronzino JD. **IEEE Eng Med Biol Mag** 1997 May–Jun;16(3):85–6

The Southern California Kaiser–Permanente Chemical Dependency Recovery Program evaluation: results of a treatment outcome study in an HMO setting. Ershoff D, et al. **J Addict Dis** 1996;15(3):1–25

A health maintenance organization's initial experience with laparoscopic–assisted vaginal hysterectomy and endometrial ablation. Hidlebaugh DA. **J Am Assoc Gynecol Laparosc** 1995 May;2(3):311–8

The impact of aging and chronic disease on use of hospital and outpatient services in a large HMO: 1971–1991 [see comments] Haan MN, et al. **J Am Geriatr Soc** 1997 Jun; 45(6):667–74. Comment in: J Am Geriatr Soc 1997 Jun;45(6):768–9.

Convenience store gastroenterology [letter] Buch PS. **J Clin Gastroenterol** 1997 Jun;24(4):297

Overcoming obstacles to effective treatment: use of clinical practice improvement methodology. Horn SD. **J Clin Psychiatry** 1997;58 Suppl 1:15–9

Referrals of adult patients from primary care: demographic disparities and their relationship to HMO insurance. Franks P, et al. **J Fam Pract** 1997 Jul;45(1):47–53

Relative effectiveness of niacin and lovastatin for treatment of dyslipidemias in a health maintenance organization [see comments] O'Connor PJ, et al. **J Fam Pract** 1997 May; 44(5):462–7. Comment in: J Fam Pract 1997 May;44(5):449–50.

Competition [letter] Busard TR. **J Fla Med Assoc** 1996 Mar; 83(3):209

The world is not coming to an end––quite yet! Moore CE. **J Fla Med Assoc** 1996 Dec;83(10):670–1

Managed health care ideology––capitalism or communism? Nirschl RP. **J Med Assoc Ga** 1996 Sep;85(3):172–3

Clarification of state HMO–Medicaid [letter; comment] Grana WA. **J Okla State Med Assoc** 1997 May–Jun; 90(5):200. Comment on: J Okla State Med Assoc 1997 Apr;90(4):135–8.

Managed health care: a concept not understood by rural Oklahomans. St. Clair CF, et al. **J Okla State Med Assoc** 1997 Jan;90(1):18–25

Insurance–related differences in the presentation of pediatric appendicitis. O'Toole SJ, et al. **J Pediatr Surg** 1996 Aug; 31(8):1032–4

The elderly and poor in the medical outcomes study [letter; comment] Barrett PH Jr, et al. **JAMA** 1996 Dec 25; 276(24):1952; discussion 1953. Comment on: JAMA 1996 Oct 2;276(13):1039–47.

The elderly and poor in the medical outcomes study [letter; comment] Grana JR, et al. **JAMA** 1996 Dec 25; 276(24):1952–3; discussion 1953. Comment on: JAMA 1996 Oct 2;276(13):1039–47.

Quality assurance in capitated physician groups. Where is the emphasis? Kerr EA, et al. **JAMA** 1996 Oct 16; 276(15):1236–9

Payer–hospital collaboration to improve patient satisfaction with hospital discharge. Hickey ML, et al. **Jt Comm J Qual Improv** 1996 May;22(5):336–44

Your guide: Contracting with Michigan health plans. The second annual Michigan State Medical Society evaluation. Ford MA, et al. **Mich Med** 1997 Mar;96(3):19–30, 32–3, 35–8 passim

State announces Medicaid awards. Capitation transition moves at a dizzying pace. Ward R. **Mich Med** 1997 Jun; 96(6):34, 36

What have HMOs learned about clinical prevention services? An examination of the experience at Group Health Cooperative of Puget Sound. Thompson RS. **Milbank Q** 1996;74(4):469–509 (142 ref.)

Putting quality improvement into (your) practice. Laiben GR. **Mo Med** 1997 Feb;94(2):73–5

Health care change: how clear is the crystal ball? McIntire T. **Mo Med** 1997 Feb;94(2):62–4

"Times are changin" [editorial] Thomas JR. **Mo Med** 1996 Nov;93(11):678–9

Correspondence re: Henson DE: is the meaning of science changing in the practice of medicine? Mod Pathol 9:353, 1996 [letter; comment] Cohen S. **Mod Pathol** 1996 Aug; 9(8):871–2. Comment on: Mod Pathol 1996 Apr;9(4):353–4.

Learning to accentuate the positive in managed care. Alper PR. **N Engl J Med** 1997 Feb 13;336(7):508–9

The HMO backlash––righteous or reactionary? [see comments] Bodenheimer T. **N Engl J Med** 1996 Nov 21; 335(21):1601–4. Comment in: N Engl J Med 1997 May 1;336(18):1329.

Managed care in the crystal ball [letter; comment] Pearl RM. **N Engl J Med** 1997 Jul 31;337(5):345. Comment on: N Engl J Med 1997 Apr 3;336(14):1018–20.

The HMO backlash [letter; comment] Yaes RJ. **N Engl J Med** 1997 May 1;336(18):1329. Comment on: N Engl J Med 1996 Nov 21;335(21):1601–4.

DHMOs: the new drill for dentists. Noonan SS. **N J Med** 1997 Mar;94(3):23–5

Obstetrician–gynecologists as primary care physicians: the perspectives of health maintenance organization medical directors and obstetrician–gynecologists. Scroggs JA, et al. **Obstet Gynecol** 1997 Aug;90(2):291–5

Panel discussion: impact of guidelines on third–party payors and HMOs. Grigsby J, et al. **Oncology (Huntingt)** 1996 Nov; 10(11 Suppl):195–201

Opportunities exist in state's HMO market. Baldwin FD. **Pa Med** 1997 Mar;100(3):12–4, 16–7

Is "Wal–Mart" medicine in the future? [letter; comment] Meisler WJ. **Pa Med** 1996 Oct;99(10):12. Comment on: Pa Med 1996 Jul;99(7):12.

HMOs and the barriers to access for the pediatric population requiring emergency medical services. Uva JL. **Pediatr Emerg Care** 1996 Jun;12(3):189–200

Physician organizations [editorial] Coulter CH. **Postgrad Med** 1997 Aug;102(2):13–6

Pap smear screening in a health maintenance organization: 1986–1990. Rolnick S, et al. **Prev Med** 1996 Mar–Apr; 25(2):156–61

Treating eating–disorder patients in a managed care environment. Contemporary American issues and Canadian response. Kaye WH, et al. **Psychiatr Clin North Am** 1996 Dec;19(4):793–810 (18 ref.)

Survey finds two–thirds of insured Americans are enrolled in managed behavioral health programs [news] **Psychiatr Serv** 1996 Sep;47(9):1012–3

CMHS report traces dramatic growth in staffing in mental health organizations over two decades [news] **Psychiatr Serv** 1996 Sep;47(9):1013

Managed care: IV. Some helpful resources. Bachrach LL. **Psychiatr Serv** 1996 Sep;47(9):925–6, 928

Managed care: II. some "latent functions". Bachrach LL. **Psychiatr Serv** 1996 Mar;47(3):243–4

Is psychotherapy ever medically necessary? Bennett MJ. **Psychiatr Serv** 1996 Sep;47(9):966–70 (23 ref.)

Does managed care permit appropriate use of psychotherapy? Borenstein DB. **Psychiatr Serv** 1996 Sep;47(9):971–4 (41 ref.)

Structuring psychiatric emergency services for smaller communities in response to managed care. Fitzgerald M. **Psychiatr Serv** 1996 Mar;47(3):233–4 (18 ref.)

Psychiatry in medical practice. Implications for the education of primary care physicians in the era of managed care: Part 1. Stoudemire A. **Psychosomatics** 1996 Nov–Dec; 37(6):502–8

Know your practice inside & out. Bahan I. **Tenn Med** 1996 Dec;89(12):438–9

Local control. BeSaw L. **Tex Med** 1997 Mar;93(3):28–31

UT's HMO. BeSaw L. **Tex Med** 1997 May;93(5):30–3

Gag rules [see comments] Jones TL. **Tex Med** 1996 Apr; 92(4):46–8. Comment in: Tex Med 1996 Jun;92(6):7.

Medicaid train wreck [see comments] Ortolon K. **Tex Med** 1997 May;93(5):22–5. Comment in: Tex Med 1997 Aug;93(8):7.

Patients as stockholders make coverage decisions [letter; comment] Stevenson R. **Tex Med** 1997 Apr;93(4):7. Comment on: Tex Med 1997 Feb;93(2):28–32.

"Garbage face": a managed care organisation's response to tobacco use. Sandell SD. **Tob Control** 1996 Winter; 5(4):259–61

Be innovative at your hospital. Pyatt RS. **Va Med Q** 1996 Fall;123(4):241

Our HMO view [editorial] Ward SD. **W V Med J** 1997 Jul–Aug;93(4):171

ECONOMICS

Pharmacy directors, employers paint picture of HMO pharmacy benefit [news] **Am J Health Syst Pharm** 1996 Sep 15;53(18):2136, 2142

Medical costs attributed to depression among patients with a history of high medical expenses in a health maintenance organization. Henk HJ, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):899–904

Enrollment duration, service use, and costs of care for severely mentally ill members of a health maintenance organization. McFarland BH, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):938–44

HMOs and the seriously mentally ill––a view from the trenches. Riggs RT. **Community Ment Health J** 1996 Jun; 32(3):213–8; discussion 219–22

HMOs: a solution [letter; comment] Platt D. **Del Med J** 1996 Aug;68(8):413. Comment on: Del Med J 1996 Jun;68(6):323–4.

Medicare HMOs: part of the solution or part of the problem in the struggle for cost containment? [editorial] Sutherland SF, et al. **Del Med J** 1996 May;68(5):281–2

Managed care and open–heart surgery facilities in California. Chernew M, et al. **Health Aff (Millwood)** 1996 Spring; 15(1):191–201

Chronic care costs in managed care. Fishman P, et al. **Health Aff (Millwood)** 1997 May–Jun;16(3):239–47

Medical groups in California: managing care under capitation. Trauner JB, et al. **Health Aff (Millwood)** 1996 Spring;15(1):159–70

Output efficiency of health maintenance organizations in Florida. Rosenman R, et al. **Health Econ** 1997 May–Jun; 6(3):295–302

The impact of increasing patient prescription drug cost sharing on therapeutic classes of drugs received and on the health status of elderly HMO members. Johnson RE, et al. **Health Serv Res** 1997 Apr;32(1):103–22

Medicare/Medicaid ... 560,000 Pennsylvanians covered by Medicare were moved into a managed care program [news] **Hosp Health Netw** 1997 Apr 5;71(7):21, 23

Managed care. HMOs have less fat to cut [news] **Hosp Health Netw** 1996 Dec 5;70(23):12

Compensation ... it's a good time to work for an HMO [news] **Hosp Health Netw** 1997 Sep 5;71(17):27

Finance. Measuring up [news] **Hosp Health Netw** 1997 May 5;71(9):10

HMOs. From red to pink [news] **Hosp Health Netw** 1997 Aug 5;71(15):13

Speed demon. Does the Pacificare/FHP merger signal a new race for market dominance? [news] Hagland M. **Hosp Health Netw** 1996 Sep 20;70(18):18–20

Senior surge: are you ready? Hudson T. **Hosp Health Netw** 1997 Apr 5;71(7):50–2, 54, 56

Consumers. Putting pay in the open. Meyer H. **Hosp Health Netw** 1997 Apr 5;71(7):90, 92

Medicare HMOs. Playing to an older crowd. Nordhaus–Bike AM. **Hosp Health Netw** 1997 Sep 5;71(17):85–6

Managed care. Payback time. Nordhaus-Bike AM. **Hosp Health Netw** 1997 Aug 5;71(15):70, 72

Clinical and financial analyses of ectopic pregnancy management at a large health plan. Hidlebaugh D, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb;4(2):207-13

Managed care: good medicine for old people? [editorial; comment] Reuben DB. **J Am Geriatr Soc** 1997 May; 45(5):643-4. Comment on: J Am Geriatr Soc 1997 May;45(5):543-9. Comment on: J Am Geriatr Soc 1997 May;45(5):627-32.

Veterans, Medicare, and health maintenance organizations. Where is the value? [editorial; comment] Feussner JR. **J Gen Intern Med** 1997 Apr;12(4):256-7. Comment on: J Gen Intern Med 1997 Apr;12(4):247-9.

Elderly veterans receiving care at a Veterans Affairs Medical Center while enrolled in Medicare-financed HMOs. Is the taxpayer paying twice? [see comments] Passman LJ, et al. **J Gen Intern Med** 1997 Apr;12(4):247-9. Comment in: J Gen Intern Med 1997 Apr;12(4):256-7.

Rate setting and health maintenance organizations [comment] Ginsburg PB. **J Health Polit Policy Law** 1996 Fall; 21(3):511-3. Comment on: J Health Polit Policy Law 1996 Fall;21(3):489-510.

Antidepressant pharmacotherapy: economic evaluation of fluoxetine, paroxetine and sertraline in a health maintenance organization [see comments] Sclar DA, et al. **J Int Med Res** 1995 Nov-Dec;23(6):395-412. Comment in: J Int Med Res 1997 Jan-Feb;25(1):45-51.

Our past is their future: the making and selling of "MD Health Plan". Deren MM. **J Med Assoc Ga** 1996 Sep;85(3):167-9

One health maintenance organization's experience: obstetric costs depend more on staffing patterns than on mode of delivery. Finkler MD, et al. **J Perinatol** 1997 Mar-Apr; 17(2):148-55

Depressive symptoms and the cost of health services in HMO patients aged 65 years and older. A 4-year prospective study. Unützer J, et al. **JAMA** 1997 May 28; 277(20):1618-23

Medicaid capitation. Bouffard K. **Mich Med** 1996 Dec; 95(12):20-6

From PSP to capitation. Ford AM. **Mich Med** 1996 Dec; 95(12):30-3

Will for-profit health care give nonprofits a run for their money? Baumgarten A. **Minn Med** 1997 Apr;80(4):14-9

Freedom of choice ... at a price. Baumgarten A. **Minn Med** 1997 May;80(5):6-7

Minnesota: the land of nonprofit HMOs. Blewett LA, et al. **Minn Med** 1997 Apr;80(4):21-4

Geographic disparities in Medicare reimbursement. Silversmith J. **Minn Med** 1997 Jun;80(6):45-51

Coumadin Clinic: a disease management enterprise. McIntire T. **Mo Med** 1997 Feb;94(2):65-6

Managed care in the crystal ball [letter; comment] Barness LA. **N Engl J Med** 1997 Jul 31;337(5):344-5. Comment on: N Engl J Med 1997 Apr 3;336(14):1018-20.

Quality and the medical marketplace [letter; comment] Boulter P, et al. **N Engl J Med** 1997 Mar 13;336(11):808; discussion 808-9. Comment on: N Engl J Med 1996 Sep 19;335(12):883-5.

The new health care game [letter; comment] Brody SA. **N Engl J Med** 1997 Jan 2;336(1):72. Comment on: N Engl J Med 1996 Aug 8;335(6):433.

The new health care game [letter; comment] Budenholzer B. **N Engl J Med** 1997 Jan 2;336(1):72. Comment on: N Engl J Med 1996 Aug 8;335(6):433.

The new health care game [letter; comment] Schwartz GR. **N Engl J Med** 1997 Jan 2;336(1):72-3. Comment on: N Engl J Med 1996 Aug 8;335(6):433.

Prescription drug budgets for physicians [editorial] D'Ambrosia R. **Orthopedics** 1997 Aug;20(8):673

Keystone pushes its gastroenterologists into the pool. Bernet PM. **Pa Med** 1996 Feb;99(2):28-9

More lessons to be learned? [letter; comment] Fisher NF. **Pharos** 1996 Winter;59(1):38-9. Comment on: Pharos 1995 Winter;58(1):16-8.

Willingness to pay for antihypertensive care: evidence from a staff-model HMO. Ramsey SD, et al. **Soc Sci Med** 1997 Jun;44(12):1911-7

Profiles of clients in government-funded drug user treatment settings. Hoffman JA, et al. **Subst Use Misuse** 1996 Mar; 31(4):453-77

Payment hassles result from lack of policing [letter; comment] Holmes PF. **Tex Med** 1997 Mar;93(3):7-8. Comment on: Tex Med 1997 Jan;93(1):36-9.

Advocates, HMOs evaluate psychiatric services under managed care. Campbell G. **Wis Med J** 1996 Apr; 95(4):218-20

LEGISLATION & JURISPRUDENCE

Failure to order. Berlin L. **AJR Am J Roentgenol** 1997 Jan; 168(1):19-21

Groping for the reins: ERISA, HMO malpractice, and enterprise liability. Kilcullen JK. **Am J Law Med** 1996; 22(1):7-50 (414 ref.)

Coping with current issues in clinical practice:introduction. Menninger WW. **Bull Menninger Clin** 1996 Spring; 60(2):143-6

HMO report [news] SoRelle R. **Circulation** 1997 Sep 2; 96(5):1365-6

From grass roots to Capitol Hill. Rosomoff HL. **Clin J Pain** 1995 Dec;11(4):255-8

Between doctor and patient. Capron AM. **Hastings Cent Rep** 1996 Sep-Oct;26(5):23-4

Policy. Unwelcome relief? [news] **Hosp Health Netw** 1997 Jul 20;71(14):22

Managed care ... Medicare's 4 million HMO members can demand hearings if they are refused medical services [news] **Hosp Health Netw** 1996 Dec 5;70(23):10-1

Who's to blame? Sfikas PM. **J Am Dent Assoc** 1997 May; 128(5):654-6

In fiduciaries we trust. Sfikas PM. **J Am Dent Assoc** 1997 Sep;128(9):1318-20

Vicarious liability: is ERISA preemption a successful defense? Lederberg MB. **Med Health R I** 1997 Feb; 80(2):69-70

How much does a MCO enrollee need to know about provider financial incentives? Lederberg MB. **Med Health R I** 1997 Aug;80(8):268-9

Patients' rights in managed care--exit, voice, and choice. Annas GJ. **N Engl J Med** 1997 Jul 17;337(3):210-5

Medicinal marijuana? [letter; comment] Grant D. **N Engl J Med** 1997 Apr 17;336(16):1185; discussion 1186-7 . Comment on: N Engl J Med 1997 Jan 30;336(5):366-7.

Physician-operated networks and antitrust regulations [letter; comment] Lance MP, et al. **N Engl J Med** 1997 Jul 3; 337(1):55; discussion 56. Comment on: N Engl J Med 1997 Jan 30;336(5):386-91.

Should legislatures practice medicine? [letter] Venes J. **N Engl J Med** 1997 Oct 23;337(17):1240; discussion 1241

New HMO regulations protect patients as never before. Caggiano AP Jr, et al. **N J Med** 1997 Apr;94(4):25-32

NY Lt. Governor calls for a halt to HMO abuses. **Oncology (Huntingt)** 1997 Apr;11(4):524

ERISA-HMOs are using the law against the people it was designed to protect [editorial] D'Ambrosia R. **Orthopedics** 1997 May;20(5):393

Is health care only for the healthy? [interview by Teri Moran] Garcia J. **Tex Med** 1997 Jun;93(6):27-31

What's happened to the healing process? Goldberg RM. **W V Med J** 1997 Jul-Aug;93(4):172-3 (0 ref.)

MANPOWER

Physician staffing ratios in staff-model HMOs: a cautionary tale [see comments] Hart LG, et al. **Health Aff (Millwood)** 1997 Jan-Feb;16(1):55-70. Comment in: Health Aff (Millwood) 1997 Jan-Feb;16(1):87-9.

Iconoclasm and physician workforce research [comment] Mullan F. **Health Aff (Millwood)** 1997 Jan-Feb;16(1):87-9 . Comment on: Health Aff (Millwood) 1997 Jan-Feb;16(1):55-70. Comment on: Health Aff (Millwood) 1997 Jan-Feb;16(1):71-86.

ORGANIZATION & ADMINISTRATION

A blueprint for building an AMC-HMO teaching affiliation. Thomas PA, et al. **Acad Med** 1996 Jun;71(6):577-9

Make or buy: HMOs' contracting arrangements for mental health care. Hodgkin D, et al. **Adm Policy Ment Health** 1997 Mar;24(4):359-76

Clinical information system in a mixed-model HMO [see comments] Baluch WM. **Am J Health Syst Pharm** 1997 Jul 1;54(13):1515-20. Comment in: Am J Health Syst Pharm 1997 Jul 1;54(13):1501.

Monitoring drug use in an IPA-model HMO. Cohen P, et al. **Am J Health Syst Pharm** 1996 Jul 1;53(13):1534-6

Involving network pharmacies in disease management programs. Friedmann Y. **Am J Health Syst Pharm** 1997 Jan 1;54(1):32-3

HMO pharmacist in a contract hospital. Rose DG. **Am J Health Syst Pharm** 1996 Jan 1;53(1):34, 38

Customer-service call centers [editorial] Talley CR. **Am J Health Syst Pharm** 1996 Sep 1;53(17):2041

Primary care for persons with disabilities. The Boston, Massachusetts model program. Meyers AR, et al. **Am J Phys Med Rehabil** 1997 May-Jun;76(3 Suppl):S37-42

Analysis of colorectal cancer stage among HMO members targeted for screening [see comments] Myers RE, et al. **Arch Intern Med** 1997 Sep 22;157(17):2001-6. Comment in: Arch Intern Med 1997 Sep 22;157(17):1919-20.

Revisiting Rick: more bad news on the HMO front [letter; comment] Gordon M. **Can Med Assoc J** 1997 Mar 1; 156(5):632-3. Comment on: Can Med Assoc J 1996 Jan 15;154(2):142-3.

Expectations, goals, and perceived effectiveness of child health supervision: a study of mothers in a pediatric practice. Cheng TL, et al. **Clin Pediatr (Phila)** 1996 Mar; 35(3):129-37

The future of psychiatric administration. Coomaraswamy RP. **Conn Med** 1996 Oct;60(10):620-2

Our past is their future: the formation, development, and sale of M.D. Health Plan. Deren MM, et al. **Conn Med** 1996 Oct;60(10):609-12

What will HMOs have in store next for medical care? [letter] Manoharan L. **Conn Med** 1996 Oct;60(10):631

TennCare: Tennessee's Medicaid experiment [letter] Cooper J. **Health Aff (Millwood)** 1996 Fall;15(3):282

A for-profit health plan's experience and strategy. Herbert ME. **Health Aff (Millwood)** 1997 Mar-Apr;16(2):121-4

The surge in Medicare managed care: an update. Lamphere JA, et al. **Health Aff (Millwood)** 1997 May-Jun; 16(3):127-33

Why we want to remain a nonprofit health care organization. Lawrence D. **Health Aff (Millwood)** 1997 Mar-Apr; 16(2):118-20

Vertical integration and organizational networks in health care [see comments] Robinson JC, et al. **Health Aff (Millwood)** 1996 Spring;15(1):7-22. Comment in: Health Aff (Millwood) 1996 Spring;15(10:100-3.

Meet John Doe. When patients show up ahead of their paperwork, aggravation and unpaid bills usually follow. Appleby C. **Hosp Health Netw** 1997 Mar 20;71(6):66, 68, 70

Hospitals. Thanks for sharing. Appleby C. **Hosp Health Netw** 1997 Feb 5;71(3):74, 76

Acquisitions. Where others fear to tread. Firshein J. **Hosp Health Netw** 1997 Aug 5;71(15):74, 76

The Minneapolis myth. Cracks in the cradle of managed care. Greene J. **Hosp Health Netw** 1997 Feb 5;71(3):56, 58, 60

Managed care. Point-of-service: staying alive. Hagland M. **Hosp Health Netw** 1996 Oct 20;70(20):58

Dangling modifiers. Staff-model HMOs are dying off. Struggling in hostile markets, their medical groups try to change old habits by putting more pay at risk. Hagland M. **Hosp Health Netw** 1997 Apr 5;71(7):70, 72, 74

Finance. Back talk over contracts. Hagland M. **Hosp Health Netw** 1997 Jan 20;71(2):63

Not-for-profits. Two HMOs play 'Let's make a deal'. Hagland M. **Hosp Health Netw** 1996 Nov 5;70(21):64, 66

Partnering. In this deal, three's a company. Hudson T. **Hosp Health Netw** 1997 Jul 20;71(14):64

Managed care. A winning market strategy for HMOs. Lumsdon K. **Hosp Health Netw** 1996 Oct 5;70(19):69-70

Physicians. Home-grown HMOs. Meyer H. **Hosp Health Netw** 1997 Jan 5;71(1):46, 48, 50

Managed care. Will U.S. HMOs play in Pretoria? Meyer H. **Hosp Health Netw** 1997 Jan 20;71(2):66-7

The role of managed care "products" in managed care "plans". Gold M, et al. **Inquiry** 1997 Spring;34(1):29-37

The case for hospitalists: effectiveness or expediency? [editorial] Rivo ML. **J Am Board Fam Pract** 1997 Sep-Oct; 10(5):379-81

S/HMOs, the second generation: building on the experience of the first Social Health Maintenance Organization demonstrations. Kane RL, et al. **J Am Geriatr Soc** 1997 Jan;45(1):101-7 (36 ref.)

The promise and performance of HMOs in improving outcomes in older adults. Wagner EH. **J Am Geriatr Soc** 1996 Oct;44(10):1251-7 (44 ref.)

Outpatient care for elderly HMO patients. Hale W. **J Fam Pract** 1997 Sep;45(3):200

Managed care and community-oriented care: conflict or complement? Lairson DR, et al. **J Health Care Poor Underserved** 1997 Feb;8(1):36-55 (34 ref.)

Treatment participation and outcome among problem drinkers in a managed care alcohol outpatient treatment program. Hu T, et al. **J Ment Health Adm** 1997 Winter; 24(1):23-34

Home health nurse patient care and coordination time. Health maintenance organization versus fee-for-service. Adams CE, et al. **J Nurs Adm** 1997 Mar;27(3):21-7

Integrating school-based health centers into managed care in Massachusetts. Hacker K. **J Sch Health** 1996 Nov; 66(9):317-21

Trusting in the future: the distinct advantage of nonprofit HMOs. Lawrence DM, et al. **Milbank Q** 1997;75(1):5-10

The contribution of group- and staff-model HMOs to American medicine. Luft HS, et al. **Milbank Q** 1996; 74(4):445-67

Physician organizations: historical fact vs. current reality. Townsend WL Jr. **Mo Med** 1997 Feb;94(2):67-9

Taking sides. Can we reach middle ground in a managed care system? Hill JE Jr. **N C Med J** 1997 May-Jun; 58(3):182-4; discussion 184-5

The new health care game [letter; comment] Fermaglich J. **N Engl J Med** 1997 Jan 2;336(1):72. Comment on: N Engl J Med 1996 Aug 8;335(6):433.

Physician-operated networks and antitrust regulations [letter] Hasan MM. **N Engl J Med** 1997 Jul 3;337(1):56

Medicare risk plans and the POS benefit. Olmstead DL. **Pa Med** 1997 Apr;100(4):16-7

A pediatrician's view. Dangerous alliances [editorial] Altemeier WA 3rd. **Pediatr Ann** 1997 Mar;26(3):155-6, 159

The Peritoneal Dialysis Multicenter Infection Study Project (MISP) under the auspices of the International Studies Committee of the International Society for Peritoneal Dialysis [editorial] Golper TA. **Perit Dial Int** 1997 May-Jun;17(3):225-6

Event medicine and attendance medicine. Adams JW. **Pharos** 1997 Summer;60(3):47

Using continuous quality improvement to increase preventive services in clinical practice--going beyond guidelines. Solberg LI, et al. **Prev Med** 1996 May-Jun;25(3):259-67

Doctor-led managed care organizations--the answer for you? Pittenger J. **Wis Med J** 1997 Jan;96(1):26-7

Women's health in HMOs: what we know and what we need to find out. Bernstein AB. **Womens Health Issues** 1996 Jan-Feb;6(1):51-9 (26 ref.)

STANDARDS

Identifying predictors of satisfaction with access to medical care and quality of care. Jatulis DE, et al. **Am J Med Qual** 1997 Spring;12(1):11-8

Validity of clinical information from a maternity survey. Meng YY, et al. **Am J Med Qual** 1997 Fall;12(3):160-4

Continuous quality improvement can improve glycemic

control for HMO patients with diabetes. O'Connor PJ, et al. **Arch Fam Med** 1996 Oct;5(9):502–6

Physicians Care for Connecticut, Inc. Business philosophy [editorial] Czarsty CW, et al. **Conn Med** 1997 Mar; 61(3):175–7

In response to Dr. Deren's president's page "Immune from criticism" [letter] Volpintesta EJ. **Conn Med** 1997 Jul; 61(7):442

Quality of outpatient care provided to diabetic patients. A health maintenance organization experience. Peters AL, et al. **Diabetes Care** 1996 Jun;19(6):601–6

Comparison of laboratory test frequency and test results between African-Americans and Caucasians with diabetes: opportunity for improvement. Findings from a large urban health maintenance organization. Wisdom K, et al. **Diabetes Care** 1997 Jun;20(6):971–7

Outcomes of anorectal disease in a health maintenance organization setting. The need for colorectal surgeons. Goldstein ET. **Dis Colon Rectum** 1996 Nov;39(11):1193–8

Length-of-stay after delivery: managed care versus fee-for-service [see comments] Gazmararian JA, et al. **Health Aff (Millwood)** 1996 Winter;15(4):74–80. Comment in: Health Aff (Millwood) 1997 May-Jun;16(3):272–4.

Quality lessons for public policy: a health plan's view. Lawrence DM. **Health Aff (Millwood)** 1997 May-Jun; 16(3):72–6

Access to care in HMOs and traditional insurance plans. Mark T, et al. **Health Aff (Millwood)** 1996 Winter; 15(4):81–7

Access to care in Medicare HMOs, 1996. Nelson L, et al. **Health Aff (Millwood)** 1997 Mar-Apr;16(2):148–56

Managed care. Health plans that please [news] **Hosp Health Netw** 1996 Nov 20;70(22):12

Quality watch ... yardsticks for measuring quality are turning up everywhere [news] **Hosp Health Netw** 1996 Dec 20; 70(24):12–3

Insurance ... are physician autonomy, quality care, and low cost mutually exclusive? [news] **Hosp Health Netw** 1996 Oct 5;70(19):19

Managed care. Well, excuuuse us! [news] **Hosp Health Netw** 1997 Jun 5;71(11):15

Humana gets happy. But can its new look and customer-friendly attitude reverse an earnings slump? Greene J. **Hosp Health Netw** 1997 May 5;71(9):34, 36

Has managed care lost its soul? Greene J. **Hosp Health Netw** 1997 May 20;71(10):36–8, 40, 42

Managed care and melting moments [editorial] Palmer RH. **Int J Qual Health Care** 1996 Aug;8(4):317–9 (15 ref.)

'To dream the impossible dream...' [editorial] Meskin LH. **J Am Dent Assoc** 1996 Nov;127(11):1568, 1570, 1572

Efforts to improve primary care delivery to nursing home residents [see comments] Fama T, et al. **J Am Geriatr Soc** 1997 May;45(5):627–32. Comment in: J Am Geriatr Soc 1997 May;45(5):643–4.

New HEDIS means more information about HMOs. Grimaldi PL. **J Health Care Finance** 1997 Summer; 23(4):40–50

Outcomes of stroke patients in Medicare fee for service and managed care [see comments] Retchin SM, et al. **JAMA** 1997 Jul 9;278(2):119–24. Comment in: JAMA 1997 Jul 9;278(2):161–2.

Mechanism of action and impact of a cystitis clinical practice guideline on outcomes and costs of care in an HMO. O'Connor PJ, et al. **Jt Comm J Qual Improv** 1996 Oct; 22(10):673–82

Quality assessment in contracting for tertiary care services by HMOs: a case study of three markets. Schulman KA, et al. **Jt Comm J Qual Improv** 1997 Feb;23(2):117–27

Report card on HMOs [editorial] D'Ambrosia R. **Orthopedics** 1997 Jul;20(7):587

HMO confrontations. Knazik S, et al. **Pediatr Emerg Care** 1996 Dec;12(6):449–51

The Peritoneal Dialysis Multicenter Infection Study Project (MISP) under the auspices of the International Studies Committee of the International Society for Peritoneal Dialysis [editorial] Golper TA. **Perit Dial Int** 1997 May-Jun;17(3):225–6

Attitude adjustment. BeSaw L. **Tex Med** 1997 Jun;93(6):36–9

HMOs and academic medicine: are they both deaf to patients? [letter; comment] Cotler MP. **West J Med** 1997 Feb; 166(2):156. Comment on: West J Med 1996 Oct;165(4):241–4.

Satisfaction with access to and quality of health care among Medicare enrollees in a health maintenance organization. Meng YY, et al. **West J Med** 1997 Apr;166(4):242–7

STATISTICS & NUMERICAL DATA

Problem type and referral to HMO mental health treatment. Kimball JM, et al. **Adm Policy Ment Health** 1997 May; 24(5):399–409

Academic versus clinical views on lithium use [letter] Young L. **Am J Psychiatry** 1997 Jul;154(7):1040

Use of clinical practice guidelines in managed care physician groups [see comments] Fang E, et al. **Arch Fam Med** 1996 Oct;5(9):528–31. Comment in: Arch Fam Med 1996 Oct;5(9):532–4.

The effect of patient and provider reminders on mammography and Papanicolaou smear screening in a large health maintenance organization. Somkin CP, et al. **Arch Intern Med** 1997 Aug 11–25;157(15):1658–64

Identifying and recruiting healthy control subjects from a managed care organization: a methodology for molecular epidemiological case-control studies of cancer [see comments] Hudmon KS, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):565–71. Comment in: Cancer Epidemiol Biomarkers Prev 1997 Aug;6(8):555–6.

Managed care: what to expect as Medicare-HMO enrollment grows. 1. Butler RN, et al. **Geriatrics** 1996 Oct;51(10):35–42

Managed care. Up and away [news] **Hosp Health Netw** 1997 Jun 20;71(12):14

Compliance with voluntary prenatal HIV testing in a large health maintenance organization (HMO). Limata C, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jun 1;15(2):126–30

Method of Medicare reimbursement and the rate of potentially ineffective care of critically ill patients [see comments] Cher DJ, et al. **JAMA** 1997 Sep 24; 278(12):1001–7. Comment in: JAMA 1997 Sep 24;278(12):1025–6.

Whither triazolam? Johnson RE, et al. **Med Care** 1997 Apr; 35(4):303–10

Recruitment, retention and characteristics of women in a prospective study of preconceptional risks to reproductive outcomes: experience of the Diana Project. Brown JE, et al. **Paediatr Perinat Epidemiol** 1997 Jul;11(3):345–58

Results of a radiology performance report for a health maintenance organization [see comments] Kessler HB, et al. **Radiology** 1997 Mar;202(3):735–8. Comment in: Radiology 1997 Mar;202(3):635–6.

Radiology performance report from a large health maintenance organization: will there be honesty in the marketplace? [editorial; comment] Levin DC. **Radiology** 1997 Mar;202(3):635–6. Comment on: Radiology 1997 Mar;202(3):735–8.

TRENDS

The role of outcome studies in allergy and clinical immunology. Blaiss MS. **Allergy Asthma Proc** 1996 Nov-Dec;17(6):355–8 (15 ref.)

Image and reality: managed-care experiences by type of plan. Schoen CA, et al. **Bull N Y Acad Med** 1996 Winter;73(2 Suppl):506–31

Managed care: what to expect as Medicare-HMO enrollment grows. 1. Butler RN, et al. **Geriatrics** 1996 Oct;51(10):35–42

Ten ways HMOs have changed during the 1990s. Gabel J. **Health Aff (Millwood)** 1997 May-Jun;16(3):134–45

The San Diego health care system: a snapshot of change. Miller RH, et al. **Health Aff (Millwood)** 1996 Spring; 15(1):224–9

Consumers. The gate swings wider. Blecher MB. **Hosp Health Netw** 1997 Jun 20;71(12):65–6

S/HMOs, the second generation: building on the experience of the first Social Health Maintenance Organization demonstrations. Kane RL, et al. **J Am Geriatr Soc** 1997 Jan;45(1):101–7 (36 ref.)

The promise and performance of HMOs in improving outcomes in older adults. Wagner EH. **J Am Geriatr Soc** 1996 Oct;44(10):1251–7 (44 ref.)

The impact of managed mental health care on women. Newell AR, et al. **J Am Med Womens Assoc** 1997 Spring; 52(2):69–74 (58 ref.)

Our past is their future: the making and selling of "MD Health Plan". Deren MM. **J Med Assoc Ga** 1996 Sep;85(3):167–9

Patient satisfaction is the real bottom line. Shanor P. **J Med Assoc Ga** 1996 Sep;85(3):206

Changes in Medicaid. Smith M. **J Med Assoc Ga** 1996 Sep; 85(3):170

Health care development as a maturing industry, Part II. McIntire T. **Mo Med** 1996 Nov;93(11):716–9

UTILIZATION

HMO utilization found similar between enrollees with and without prior health insurance [news] **Am J Health Syst Pharm** 1997 Jun 15;54(12):1390

Medical costs attributed to depression among patients with a history of high medical expenses in a health maintenance organization. Henk HJ, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):899–904

Enrollment duration, service use, and costs of care for severely mentally ill members of a health maintenance organization. McFarland BH, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):938–44

Specialty differences in the management of asthma. A cross-sectional assessment of allergists' patients and generalists' patients in a large HMO. Vollmer WM, et al. **Arch Intern Med** 1997 Jun 9;157(11):1201–8

Managed care and medical technology: implications for cost growth. Chernew M, et al. **Health Aff (Millwood)** 1997 Mar-Apr;16(2):196–206

Justifying increased medicare data demands [letter; comment] Chockley N. **Health Aff (Millwood)** 1996 Spring; 15(1):239–41. Comment on: Health Aff (Millwood) 1995 Winter;14(4):104–16.

Growth in HMO share of the Medicare market, 1989–1994 [see comments] Welch WP. **Health Aff (Millwood)** 1996 Fall;15(3):201–14. Comment in: Health Aff (Millwood) 1997 Jan-Feb;16(1):225–6.

Managed care ... many people in Medicare HMOs apparently are voting with their feet [news] **Hosp Health Netw** 1997 Feb 5;71(3):12–3

Mental health ... people whose depressions go untreated tend to consume more than their fair share of health care services [news] **Hosp Health Netw** 1997 Mar 5;71(5):14

Managed care ... HMOs tap Medicaid, Medicare -news- **Hosp Health Netw** 1996 Oct 20;70(20):18

Managed care. Where it's at [news] **Hosp Health Netw** 1997 Jan 20;71(2):19

Technology. Phone first. Swan H. **Hosp Health Netw** 1997 Jan 5;71(1):46

A randomized trial of group outpatient visits for chronically ill older HMO members: the Cooperative Health Care Clinic [see comments] Beck A, et al. **J Am Geriatr Soc** 1997 May;45(5):543–9. Comment in: J Am Geriatr Soc 1997 May;45(5):643–4.

Transitions in health care use and expenditures among frail older adults by payor/provider type [see comments] Pearlman DN, et al. **J Am Geriatr Soc** 1997 May; 45(5):550–7. Comment in: J Am Geriatr Soc 1997 May;45(5):645–6.

The blending of competitive and regulatory strategies: a second opinion. Weil TP. **J Health Care Finance** 1996 Winter;23(2):46–56

Lower utilization of dermatologists in managed care: despite growth in managed care, visits to dermatologists did not decrease: an analysis of National Ambulatory Medical Care Survey data, 1990–1992. Feldman SR, et al. **J Invest Dermatol** 1996 Dec;107(6):860–4

Extending health maintenance organization insurance to the uninsured. A controlled measure of health care utilization. Bograd H, et al. **JAMA** 1997 Apr 2;277(13):1067–72

Variations in cataract extraction rates in Medicare prepaid and fee-for-service settings [see comments] Goldzweig CL, et al. **JAMA** 1997 Jun 11;277(22):1765–8. Comment in: JAMA 1997 Jun 11;277(22):1807–8.

The impact of physician involvement in managed care on efficient use of hospital resources. Van Horn RL, et al. **Med Care** 1997 Sep;35(9):873–89

Use of Veterans Affairs medical care by enrollees in Medicare HMOs [letter] DeVito CA, et al. **N Engl J Med** 1997 Oct 2;337(14):1013–4

The Medicare-HMO revolving door--the healthy go in and the sick go out [see comments] Morgan RO, et al. **N Engl J Med** 1997 Jul 17;337(3):169–75. Comment in: N Engl J Med 1997 Jul 17;337(3):192–5.

Health care utilization and cost among children with asthma who were enrolled in a health maintenance organization. Lozano P, et al. **Pediatrics** 1997 Jun;99(6):757–64

Women's health and managed care: promises and challenges. Collins KS, et al. **Womens Health Issues** 1996 Jan-Feb; 6(1):39–44

HEALTH MANPOWER

Stabilizing the HIV/AIDS workforce: lessons from the New York City experience. Healton C, et al. **Am J Prev Med** 1996 Jul-Aug;12(4 Suppl):39–46

The Nephrology Manpower Study: what does it mean and what do we do now? [editorial] Couser WG. **J Am Soc Nephrol** 1997 May;8(5):843–5

Variations in knee replacement utilization rates and the supply of health professionals in Ontario, Canada. Coyte PC, et al. **J Rheumatol** 1996 Jul;23(7):1214–20

The growing independence of nonphysician clinicians in clinical practice. Cooper RA. **JAMA** 1997 Apr 2; 277(13):1092–3

Care for the carers [editorial] Ross MH, et al. **S Afr Med J** 1996 Sep;86(9):1072

Health care reform and the labor market. Durán-Arenas L, et al. **Soc Sci Med** 1996 Sep;43(5):791–7 (12 ref.)

ECONOMICS

The physician workforce--underemployment and unemployment [news] Das Dores Silva YJ. **Natl Med J India** 1997 Jan-Feb;10(1):38–9

EDUCATION see HEALTH OCCUPATIONS/education

LEGISLATION & JURISPRUDENCE

Alleviating the physician glut: what's the government's role? Wilensky GR. **JAMA** 1997 Jan 1;277(1):73

Any-willing provider laws: point and counter point. Loubeau PR, et al. **Med Law** 1996;15(2):219–26

[Incorporation of conscience objectors in Insalud (editorial)] Pérez López RB. **Rev Esp Salud Publica** 1996 May-Jun; 70(3):245–9 **(Spa)**

ORGANIZATION & ADMINISTRATION

A framework for the management of intellectual capital in the health care industry. Grantham CE, et al. **J Health Care Finance** 1997 Spring;23(3):1–19 (52 ref.)

Occupational health and safety information systems in the pharmaceutical industry. Davis MF. **Occup Med** 1997 Jan-Mar;12(1):179–91

STATISTICS & NUMERICAL DATA

Medical and dental staffing in the national health service in Scotland in 1995. Ewing DJ. **Health Bull (Edinb)** 1996 Nov; 54(6):505–13

TRENDS

Medical workforce policy making in Canada: are we creating more problems for the future? Dauphinee WD.

Clin Invest Med 1996 Aug;19(4):286–91

Trends in the education and practice of alternative medicine clinicians. Cooper RA, et al. **Health Aff (Millwood)** 1996 Fall;15(3):226–38

Benchmarking the physician workforce [letter; comment] Floch MH. **JAMA** 1997 Mar 26;277(12):964–5; discussion 965–6. Comment on: JAMA 1996 Dec 11;276(22):1811–7. Comment on: JAMA 1996 Dec 11;276(22):1841–3.

Managed care's role in shaping the physician job market. Goodman L. **JAMA** 1997 Jan 1;277(1):72

Medical career choices in an era of change [editorial] Huang LY. **JAMA** 1997 Jan 1;277(1):68

Initial employment status of resident physicians completing training in 1995. Miller RS, et al. **JAMA** 1997 Jun 4; 277(21):1699–704

The impending physician surplus: is it time to quit? Reinhardt U. **JAMA** 1997 Jan 1;277(1):69

Physician supply and the shifting paradigm of medical student choice. Ruhnke GW. **JAMA** 1997 Jan 1;277(1):70–1

Benchmarking the physician workforce [letter; comment] Sekscenski ES, et al. **JAMA** 1997 Mar 26;277(12):965; discussion 965–6. Comment on: JAMA 1996 Dec 11;276(22):1811–7. Comment on: JAMA 1996 Dec 11;276(22):1841–3.

[Medical personnel: the scientific and practical aspects (the current status of the problem)] Kuz'menko MM. **Probl Sotsialnoi Gig Istor Med** 1996 Jul–Aug;(4):42–6 **(Rus)**

UTILIZATION

Trends of FDA resource allocations over the past 20 years: expected future resources and workload. Shank FR, et al. **Regul Toxicol Pharmacol** 1996 Dec;24(3):218–23

HEALTH OCCUPATIONS

Enhancing prevention in the practice of health professionals. Butler-Jones D. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S75–8

Hospital infection control practices for tuberculosis. Davis YM, et al. **Clin Chest Med** 1997 Mar;18(1):19–33 (43 ref.)

Personal respiratory protection against Mycobacterium tuberculosis. Fennelly KP. **Clin Chest Med** 1997 Mar; 18(1):1–17 (79 ref.)

Health career orientation of Oregon high school students. Elder N, et al. **Fam Med** 1997 Feb;29(2):108–11

Rostrum. Stop the sensitization. Kelly KJ, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):857–8

HIV post-exposure prophylaxis: complex issues in health care worker management [editorial] Ball RT Jr. **J S C Med Assoc** 1996 Oct;92(10):437–40 (6 ref.)

The place of science in the health professions. Bloom SW. **Med Educ** 1995;29 Suppl 1:76–8

Health professions development. Gabr M. **Med Educ** 1995; 29 Suppl 1:72–5

Medical informatics: a mutagenic force for artistry and science in the healing professions [editorial] Detmer DE. **Methods Inf Med** 1996 Sep;35(3):178–80

OP Web page aids consumers and professions [news] **N Y State Dent J** 1997 Mar;63(3):55

Health care workers and workplace violence. Simonowitz JA. **Occup Med** 1996 Apr–Jun;11(2):277–91 (43 ref.)

Influenza vaccination of health care workers: evaluation of factors that are important in acceptance. Doebbeling BN, et al. **Prev Med** 1997 Jan–Feb;26(1):68–77

Environmental health in the health-care professions: biological, physical, psychic, and social health hazards. Hofmann F, et al. **Rev Environ Health** 1996 Jan–Jun; 11(1–2):41–55 (104 ref.)

Preventing workers' hepatitis A, B, C, D, E, and G. Leistikow BN. **West J Med** 1996 Sep;165(3):139

[A study of waste anesthetic gases monitoring and working environmental controls in hospital operating rooms] Koda S, et al. **Sangyo Eiseigaku Zasshi** 1997 Jan;39(1):38–45 (Eng. Abstr.) **(Jpn)**

EDUCATION

Changing health professions education in West Virginia. Carlton B, et al. **Acad Med** 1997 Feb;72(2):110–5

A state university's model program to increase the number of its disadvantaged students who matriculate into health professions schools. Lewis CL. **Acad Med** 1996 Oct; 71(10):1050–7

Capacity building in health economics opportunities for training in developing countries. James S, et al. **Health Econ** 1996 Sep–Oct;5(5):473–8

An analysis of the scope and value of problem-based learning in the education of health care professionals. Frost M. **J Adv Nurs** 1996 Nov;24(5):1047–53 (32 ref.)

HIV education: a challenge to adult learning theory and practice. Gallagher DM. **J Assoc Nurses AIDS Care** 1996; 7 Suppl 1:5–14 (25 ref.)

How a community-academic partnership serves as a force for change in health care and health professions education. Maurana CA, et al. **J Health Care Poor Underserved** 1997 Feb;8(1):5–17

Use of the DSM in marriage and family therapy programs: current practices and attitudes. Denton WH, et al. **J Marital Fam Ther** 1997 Jan;23(1):81–6

A core curriculum for health professions. Steves A, et al. **Radiol Technol** 1996 Sep–Oct;68(1):83–6

Introduction to proceedings of the Teaching to Promote Women's Health conference. Batty HP, et al. **Womens Health Issues** 1997 Mar–Apr;7(2):71–5

The road to freedom: ending violence against women. Harris M, et al. **Womens Health Issues** 1997 Mar–Apr;7(2):99–108

The women's health specialty: curriculum implications. Hunt L. **Womens Health Issues** 1997 Mar–Apr;7(2):116–20 (14 ref.)

Teaching trends and issues in women's health using a feminist perspective. Valentine PE. **Womens Health Issues** 1997 Mar–Apr;7(2):84–7

[The problem of personnel training] Kapitonenko NA, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Nov–Dec;(6):38–40 (Eng. Abstr.) **(Rus)**

[Working Group on Continuing Education in Health] **Educ Med Salud** 1995 Jul–Dec;29(3–4):344–59 (11 ref.) **(Spa)**

[Prevalence of hepatitis B and hepatitis A virus infection among health sciences students in Catalonia, Spain] Bayas JM, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):281–4 (Eng. Abstr.) **(Spa)**

MANPOWER see **HEALTH MANPOWER**

STANDARDS

Pew Health Professions Commission task force releases policy considerations for reforming health care workforce regulation [see comments] Giordan BP. **AORN J** 1996 Feb; 63(2):343, 346–8. Comment in: AORN J 1996 Feb;63(2):338, 340.

Put the Pew Health Professions Commission health care workforce regulation report at the top of your 1996 reading list [editorial; comment] Giordano BP. **AORN J** 1996 Feb; 63(2):338, 340. Comment on: AORN J 1996 Feb;63(2):343, 346–8.

Beyond the Tower of Babel: a nomenclature for suicidology. O'Carroll PW, et al. **Suicide Life Threat Behav** 1996 Fall; 26(3):237–52

TRENDS

The health education profession in the 21st century: setting the stage. National Commission for Health Education Credentialing, Inc., Coalition of National Health Education Organizations, USA. **J Sch Health** 1996 Oct;66(8):291–8

HEALTH OCCUPATIONS MANPOWER see **HEALTH MANPOWER**

HEALTH OCCUPATIONS SCHOOLS see **SCHOOLS, HEALTH OCCUPATIONS**

HEALTH PERSONNEL

Violence against women: provider barriers to intervention in emergency departments. McGrath ME, et al. **Acad Emerg Med** 1997 Apr;4(4):297–300

Residents and nonphysician health care providers [letter] Leppert PC, et al. **Acad Med** 1997 Mar;72(3):161–2

HIV infection: challenges for dialysis personnel. Bradley-Springer L. **Adv Ren Replace Ther** 1996 Oct; 3(4):293–7 (35 ref.)

Hepatitis: implications for dialysis personnel. Campbell MA. **Adv Ren Replace Ther** 1996 Oct;3(4):284–6

HIV counsellors' knowledge, attitudes and vulnerabilities to HIV in Lusaka, Zambia, 1994. Baggaley R, et al. **AIDS Care** 1996 Apr;8(2):155–66

Risk of HIV infection in health care workers. Fahrner R. **AIDS Clin Rev** 1997–98;:93–107 (15 ref.)

Monitoring occupational exposure to cancer chemotherapy drugs. Baker ES, et al. **Am J Health Syst Pharm** 1996 Nov 15;53(22):2713–23 (146 ref.)

Keeping patient information confidential. North GL. **Am J Health Syst Pharm** 1996 Sep 1;53(17):2034, 2039

What is the risk of acquiring hepatitis C for health care workers and what are the recommendations for prophylaxis and follow-up after occupational exposure to hepatitis C virus? **Am J Infect Control** 1996 Oct;24(5):411–5 (24 ref.)

Tuberculosis: old nemesis, new problems [editorial; comment] Goldrick BA. **Am J Infect Control** 1996 Aug;24(4):223–5 . Comment on: Am J Infect Control 1996 Aug;24(4):226–34. Comment on: Am J Infect Control 1996 Aug;24(4):235–42. Comment on: Am J Infect Control 1996 Aug;24(4):243–53. Comment on: Am J Infect Control 1996 Aug;24(4):254–61.

Managed care fundamentals: implications for health care organizations and health care professionals. Landry C, et al. **Am J Occup Ther** 1996 Jun;50(6):413–6

The occupational health status of African-American women health care workers. Arnold CW. **Am J Prev Med** 1996 Sep–Oct;12(5):311–5

Latex allergy: an emerging clinical and occupational health problem. Kam PC, et al. **Anaesthesia** 1997 Jun;52(6):570–5 (45 ref.)

Occupationally acquired infections in health care workers. Part II [published erratum appears in Ann Intern Med 1997 Apr 1;126(7):588] Sepkowitz KA. **Ann Intern Med** 1996 Dec 1;125(11):917–28 (279 ref.)

Occupationally acquired infections in health care workers. Part I. Sepkowitz KA. **Ann Intern Med** 1996 Nov 15; 125(10):826–34 (202 ref.)

The purpose and functions of immunization information systems within health care organizations. Sinn JS, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):615–20

Attitudes of U.S. and Czech/Slovak mental health and health professionals toward five types of sexually explicit materials. Robinson BE, et al. **Arch Sex Behav** 1996 Dec; 25(6):601–28

Aboriginal health workers [letter; comment] Saint-Yves IF. **Aust N Z J Public Health** 1996 Aug;20(4):440–1. Comment on: Aust N Z J Public Health 1996 Jun;20(3):227–9.

Aboriginal health workers [letter; comment] Thompson JF. **Aust N Z J Public Health** 1996 Aug;20(4):441. Comment on: Aust N Z J Public Health 1996 Jun;20(3):227–9.

Patient-provider agreement on guidelines for preparation for breast cancer treatment. Schofield MJ, et al. **Behav Med** 1997 Spring;23(1):36–45

Health workers need information from countries with better health indicators than Britain and the US [letter; comment] Sekikawa A, et al. **BMJ** 1997 May 10;314(7091):1418. Comment on: BMJ 1997 Jan 11;314(7074):90.

Health workers strike in Zimbabwe [news] Sidley P. **BMJ** 1996 Nov 9;313(7066):1165

Reintroduction of medical officers of health would solve many problems [letter; comment] Soothill JF. **BMJ** 1997 May 17;314(7092):1483. Comment on: BMJ 1997 May 17;314(7092):1451–5.

Medical staff suffered severe stress after earthquake in Kobe, Japan [letter] Uemoto M, et al. **BMJ** 1996 Nov 2; 313(7065):1144

Immune response to a new hepatitis B vaccine in healthcare workers who had not responded to standard vaccine: randomised double blind dose-response study. Zuckerman JN, et al. **BMJ** 1997 Feb 1;314(7077):329–33

Reproducibility and validity of oral visual inspection by trained health workers in the detection of oral precancer and cancer. Mathew B, et al. **Br J Cancer** 1997;76(3):390–4

Hazards in the use of diphencyprone [letter; comment] Adisesh A, et al. **Br J Dermatol** 1997 Mar;136(3):470. Comment on: Br J Dermatol 1996 Jun;134(6):1153.

Safety among health-care workers in the NHS. Bojanowski LM. **Br J Hosp Med** 1997 Jan 15–Feb 5;57(1–2):47–8 (5 ref.)

Occupational health services for health care staff [letter; comment] Hodgson ES. **Br J Hosp Med** 1994 Jan 19–Feb 1;51(1–2):70. Comment on: Br J Hosp Med 1993 Jul 14–Aug 17;50(2–3):83–5.

Information-seeking behavior of health professionals in Hong Kong: a survey of thirty-seven hospitals. Cheng GY, et al. **Bull Med Libr Assoc** 1996 Jan;84(1):32–40

National Surveillance of Occupational Exposure to the Human Immunodeficiency Virus. Deschamps L, et al. **Can Commun Dis Rep** 1996 Apr 1;22(7):52–4 **(Eng, Fre)**

Human immunodeficiency virus and health care workers: risking livelihood as well as life [editorial] Layon AJ, et al. **Can J Anaesth** 1997 Jul;44(7):689–95 **(Eng, Fre)**

HIV postexposure prophylaxis: new recommendations [see comments] Patrick DM. **Can Med Assoc J** 1997 Jan 15; 156(2):233–4. Comment in: Can Med Assoc J 1997 May 1;156(9):1267–8. **(Eng, Fre)**

Radiation exposure to patients and operators during diagnostic catheterization and coronary angioplasty [see comments] Zorzetto M, et al. **Cathet Cardiovasc Diagn** 1997 Apr;40(4):348–51. Comment in: Cathet Cardiovasc Diagn 1997 Apr;40(4):352.

Nutrition and children. A statement for healthcare professionals from the Nutrition Committee, American Heart Association. Fisher EA, et al. **Circulation** 1997 May 6;95(9):2332–3

Guide to primary prevention of cardiovascular diseases. A statement for healthcare professionals from the Task Force on Risk Reduction. American Heart Association Science Advisory and Coordinating Committee. Grundy SM, et al. **Circulation** 1997 May 6;95(9):2329–31

When to start cholesterol-lowering therapy in patients with coronary heart disease. A statement for healthcare professionals from the American Heart Association Task Force on Risk Reduction. Grundy SM, et al. **Circulation** 1997 Mar 18;95(6):1683–5

Management of deep vein thrombosis and pulmonary embolism. A statement for healthcare professionals. Council on Thrombosis (in consultation with the Council on Cardiovascular Radiology), American Heart Association. Hirsh J, et al. **Circulation** 1996 Jun 15; 93(12):2212–45 (451 ref.)

Automatic external defibrillators for public access defibrillation: recommendations for specifying and reporting arrhythmia analysis algorithm performance, incorporating new waveforms, and enhancing safety. A statement for health professionals from the American Heart Association Task Force on Automatic External Defibrillation, Subcommittee on AED Safety and Efficacy. Kerber RE, et al. **Circulation** 1997 Mar 18;95(6):1677–82

Fiber, lipids, and coronary heart disease. A statement for healthcare professionals from the Nutrition Committee, American Heart Association. Van Horn L. **Circulation** 1997 Jun 17;95(12):2701–4 (53 ref.)

A southern Illinois eyecare provider survey. Bruninga HJ, et al. **CLAO J** 1997 Apr;23(2):138–44

Managing latex allergy in patients and health care workers. Melton AL. **Cleve Clin J Med** 1997 Feb;64(2):76–82 (60 ref.)

Transmission of Mycobacterium tuberculosis among health care workers infected with human immunodeficiency virus. Blumberg HM, et al. **Clin Infect Dis** 1996 Mar;22(3):597–8

Spread of serious disease-producing M3 clones of group A streptococcus among family members and health care workers. DiPersio JR, et al. **Clin Infect Dis** 1996 Mar; 22(3):490–5

Early therapy with interferon for acute hepatitis C acquired through a needlestick. Noguchi S, et al. **Clin Infect Dis** 1997 May;24(5):992–4

Use of Bacille Calmette–Guérin vaccine in health care workers [letter] Reichman LB, et al. **Clin Infect Dis** 1996 Feb;22(2):392

Health care providers' attitudes and beliefs about functional impairments and chronic back pain. Rainville J, et al. **Clin J Pain** 1995 Dec;11(4):287–95

New guidance on post exposure prophylaxis of health care workers exposed to HIV at work.
Commun Dis Rep CDR Wkly 1997 Jul 4;7(27):239

Strengthening measures to protect health care workers and patients from hepatitis B virus.
Commun Dis Rep CDR Wkly 1996 Oct 4;6(40):347

Radiation exposure to patients and personnel during interventional ERCP at a teaching institution. Heyd RL, et al. **Gastrointest Endosc** 1996 Sep;44(3):287–92

The 'Clinical Audit Enabler'—a clinical audit resource reference guide'. Atherton R. **Health Bull (Edinb)** 1996 Nov;54(6):447–8

Public health. Risky business [news] **Hosp Health Netw** 1997 Apr 5;71(7):24

Time utilisation pattern of staff of two primary health centres in Ballavgarh, Haryana. Kapoor SK, et al.
Indian J Public Health 1996 Oct–Dec;40(4):112–9

Status of growth monitoring activities in selected ICDS projects of Rajasthan. Kapil U, et al. **Indian Pediatr** 1996 Nov;33(11):949–52

The effect of high-efficiency particulate air respirator design on occupational health: a pilot study balancing risks in the real world. Eck EK, et al.
Infect Control Hosp Epidemiol 1997 Feb;18(2):122–7

Reducing occupational exposure to bloodborne pathogens: where do we stand a decade later? [editorial] Jagger J. **Infect Control Hosp Epidemiol** 1996 Sep;17(9):573–5

Healthcare workers: protecting those who protect our health [editorial] Lipscomb J, et al.
Infect Control Hosp Epidemiol 1997 Jun;18(6):397–9

Management of healthcare workers with pharyngitis or suspected streptococcal infections. Weber DJ, et al.
Infect Control Hosp Epidemiol 1996 Nov;17(11):753–61 (95 ref.)

Bloodborne pathogen transmission in health care workers. Risks and prevention strategies. Cardo DM, et al.
Infect Dis Clin North Am 1997 Jun;11(2):331–46 (90 ref.)

Improving consultations between health-care professionals and older clients: implications for pharmacists. Morrow D. **Int J Aging Hum Dev** 1997;44(1):47–72 (98 ref.)

ICN urges WHA to support protection of healthcare workers from HIV/AIDS [news] **Int Nurs Rev** 1996 Jul–Aug; 43(4):98–9

Occupational exposure to HIV: new recommendations for treating health care workers. Goldschmidt RH, et al.
J Am Board Fam Pract 1996 Nov–Dec;9(6):455–8 (10 ref.)

Hepatitis C virus infection in healthcare workers. Surgical Infection Society. Howard RJ, et al. **J Am Coll Surg** 1997 May;184(5):540–52 (114 ref.)

Occupational health hazards to the ultrasonographer and their possible prevention. Mercer RB, et al.
J Am Soc Echocardiogr 1997 May;10(4):363–6

Musculoskeletal pain in cardiac ultrasonographers: results of a random survey. Smith AC, et al.
J Am Soc Echocardiogr 1997 May;10(4):357–62

Latex allergy in hospital employees. Lai CC, et al.
J Formos Med Assoc 1997 Apr;96(4):266–71

Hospitalized patients' satisfaction with caregivers' conduct and physical surroundings. Pilpel D. **J Gen Intern Med** 1996 May;11(5):312–4

Health care professionals' attitudes toward lesbian women and gay men. Schwanberg SL. **J Homosex** 1996;31(3):71–83

Study of needlestick accidents and hepatitis C virus infection in healthcare workers by molecular evolutionary analysis. Mizuno Y, et al. **J Hosp Infect** 1997 Feb;35(2):149–54

Incidence of non-A, non-B and HCV positive hepatitis in healthcare workers in Italy. Stroffolini T, et al.
J Hosp Infect 1996 Jun;33(2):131–7

Influenza vaccination of health care workers in long-term-care hospitals reduces the mortality of elderly patients [see comments] Potter J, et al. **J Infect Dis** 1997 Jan;175(1):1–6. Comment in: ACP J Club 1997 Jul–Aug;127(1):1.

Interprofessional contacts between chiropractors and other health-care professionals in Sweden as seen from a chiropractic perspective. Leboeuf-Yde C, et al.
J Manipulative Physiol Ther 1997 May;20(4):241–5

Cost-effectiveness of the varicella vaccine for administration to health care workers [letter] Burken MI, et al.
J Occup Environ Med 1997 Jul;39(7):605–7

A medical-center-wide, multidisciplinary approach to the problem of natural rubber latex allergy. Hunt LW, et al.
J Occup Environ Med 1996 Aug;38(8):765–70

Health care worker exposure to aerosolized ribavirin: biological and air monitoring. Shults RA, et al.
J Occup Environ Med 1996 Mar;38(3):257–63

Understanding vicarious traumatization. Blair DT, et al.
J Psychosoc Nurs Ment Health Serv 1996 Nov;34(11):24–30 (54 ref.)

Health in the NHS [letter] Waldron HA.
J R Coll Physicians Lond 1996 May–Jun;30(3):271–2

HIV post-exposure prophylaxis: complex issues in health care worker management [editorial] Ball RT Jr.
J S C Med Assoc 1996 Oct;92(10):437–40 (6 ref.)

The social responsibilities of health professionals. Lessons from their role in Nazi Germany [comment] [see comments] Sidel VW. **JAMA** 1996 Nov 27;276(20):1679–81. Comment on: JAMA 1996 Nov 27;276(20):1657–61. Comment on: JAMA 1996 Nov 27;276(20):1676–8. Comment in: JAMA 1997 Mar 5;277(9):711; discussion 711–2.

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [letter; comment] Abdul Mujeeb S. **JPMA J Pak Med Assoc** 1997 Mar;47(3):100–1. Comment on: JPMA J Pak Med Assoc 1996 Jul;46(7):152–4.

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [see comments] Rehman K, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):152–4. Comment in: JPMA J Pak Med Assoc 1997 Mar;47(3):100–1.

Hepatitis B and health-care workers [see comments] Eddleston AL. **Lancet** 1997 May 10;349(9062):1339–40. Comment in: Lancet 1997 Jul 19;350(9072):218; discussion 218–9. Comment in: Lancet 1997 Jul 19;350(9072):219.

The witnessing imagination: social trauma, creative artists, and witnessing professionals. Weine SM. **Lit Med** 1996 Fall; 15(2):167–82

When people with developmental disabilities present to community practitioners. Hovermale L. **Md Med J** 1997 Aug;46(7):363–6 (7 ref.)

Risks and issues for the health care worker in the human immunodeficiency virus era. Weiss SH.
Med Clin North Am 1997 Mar;81(2):555–75 (208 ref.)

Adolescents and alcohol: preventive opportunities for health care providers. Colby SM, et al. **Med Health R I** 1997 Jul;80(7):223–6 (21 ref.)

Ageing Jewish Holocaust survivors: anxieties in dealing with health professionals. Joffe HI, et al. **Med J Aust** 1996 Nov 4;165(9):517–20 (38 ref.)

Federal labor laws. Are you in compliance? Stern JS.
Mich Med 1996 Mar;95(3):18

Hepatitis C virus among health care workers. De Mercato R, et al. **Minerva Med** 1996 Nov;87(11):501–4

Simultaneous transmission of human immunodeficiency virus and hepatitis C virus from a needle-stick injury [see comments] Ridzon R, et al. **N Engl J Med** 1997 Mar 27; 336(13):919–22. Comment in: N Engl J Med 1997 Jul 31;337(5):348–9.

Recommendations for HIV occupational exposure. Paul SM, et al. **N J Med** 1996 Nov;93(11):49–54

Prevention of hepatitis B in healthcare workers (HCW) [letter] Chew T. **N Z Med J** 1997 Jul 11;110(1047):258

Needle stick injuries in country general practice. Lum D, et al. **N Z Med J** 1997 Apr 11;110(1041):122–5

Health scientists strike over cuts at Argentinian labs [news] Masood E. **Nature** 1997 Jan 30;385(6615):376

Prevalence of stroke in two samples (rural and urban) of old people in Spain. A pilot door-to-door study carried out by health professionals. Bermejo F, et al.
Neurologia 1997 Apr;12(4):157–61

Whose outcomes. Patients, providers, or payers? Kleinpell RM. **Nurs Clin North Am** 1997 Sep;32(3):513–20 (21 ref.)

Latex allergy. Considerations for the care of pediatric patients and employee safety. Young MA, et al.
Nurs Clin North Am 1997 Mar;32(1):169–82 (47 ref.)

Occupationally acquired HIV in health care workers [letter] Gershon RM, et al. **Nurse Pract** 1996 Sep;21(9):6–8, 11

Update on recommendations for HIV postexposure prophylaxis. Grodesky MJ. **Nurse Pract** 1996 Dec;21(12 Pt 1):74, 77–8 (6 ref.)

The health care worker plague. Groce DF.
Occup Health Saf 1996 Oct;65(10):170–2, 176–7, 200

Exposure control plans define risks for bloodborne pathogen infections. Muir TW 3rd. **Occup Health Saf** 1994 Apr; 63(4):75–8, 80

Shielding eyes against bloodborne pathogens. Roll D.
Occup Health Saf 1997 Mar;66(3):54–5

Proposed tuberculosis standard tests accelerated rulemaking. Smith RB. **Occup Health Saf** 1994 Apr;63(4):81

Implementation of Department of Health guidelines for hepatitis B vaccination: a regional audit of NHS occupational health policies and procedures. Harrison J. **Occup Med (Oxf)** 1997 Jan;47(1):5–10

New safety skin hooks. Brooks JG, et al.
Otolaryngol Head Neck Surg 1997 Jul;117(1):135–6

Varicella vaccine and health care workers. Grossman M.
Pediatr Infect Dis J 1996 May;15(5):395–6

OSHA guidelines aim at reducing violence in health care settings [news] **Psychiatr Serv** 1996 Aug;47(8):891–2

Clinicians' judgement of capacity of nursing home patients to give informed consent. Barton CD Jr, et al.
Psychiatr Serv 1996 Sep;47(9):956–60

Use of a customer satisfaction survey by health care regulators: a tool for total quality management. Andrzejewski N, et al. **Public Health Rep** 1997 May–Jun; 112(3):206–10; discussion 211

Recommended guidelines for reviewing, reporting, and conducting research on in-hospital resuscitation: the in-hospital 'Utstein style'. A statement for healthcare professionals from the American Heart Association, the European Resuscitation Council, the Heart and Stroke Foundation of Canada, the Australian Resuscitation Council, and the Resuscitation Councils of Southern Africa. Cummins RO, et al. **Resuscitation** 1997 Apr; 34(2):151–83

Active compression–decompression cardiopulmonary resuscitation—instructor and student manual for teaching and training. Part II: A student and instructor manual. Wik L, et al. **Resuscitation** 1996 Oct;32(3):206–12

Biomonitoring of occupational exposures to cytostatic anticancer drugs. Bos RP, et al. **Rev Environ Health** 1997 Jan–Mar;12(1):43–58 (104 ref.)

Prevalence of hepatitis C antibodies among health care workers at high risk for blood exposure. Martins RM, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug;38(4):309–10

Prevention of transmission of AIDS to health care workers.
Rinsho Kyobu Geka 1988 Apr;8(2):211–3

Cancer incidence in Danish health care workers. Rix BA, et al. **Scand J Soc Med** 1996 Jun;24(2):114–20

Objective assessment of sleep and alertness in medical house staff and the impact of protected time for sleep. Richardson GS, et al. **Sleep** 1996 Nov;19(9):718–26

Israeli professionals' knowledge and attitudes towards AIDS. Ben-Ari A. **Soc Work Health Care** 1996;22(4):35–52

A model for interval-censored tuberculosis outbreak data. Smith PJ, et al. **Stat Med** 1997 Mar 15;16(5):485–96

Minimizing the risk. Grimes RM. **Tex Med** 1997 Jun; 93(6):45–7

Occupational asthma due to latex in health care workers. Ho A, et al. **Thorax** 1996 Dec;51(12):1280–2

Impact on provider profiling. Chaiken BP. **Va Med Q** 1996 Fall;123(4):238–40

Latex allergy. Shusterman D. **West J Med** 1996 Sep; 165(3):141–2

Sexual abuse in the health professions—who's counting? McPhedran M. **World Health Stat Q** 1996;49(2):154–7

[AIDS and health personnel in Ivory Coast] Diarra J, et al. **Med Trop (Mars)** 1996;56(3):259–63 (Eng. Abstr.) **(Fre)**

[Transition of the roles and mandates of public health professionals] Renaud L, et al. **Promot Educ** 1996 Dec; 3(4):29–32 (Eng. Abstr.) **(Fre)**

[Allergic and irritative disease caused by gloves in the health setting and their prevention. Consensus document of the Italian Preventive Society of Health Laboratories (news)] **Med Lav** 1996 Jul–Aug;87(4):350–9 (0 ref.) **(Ita)**

[Re-education and new education. Evaluation of a training program for occupational health services' personnel aimed for employees with chronic musculoskeletal pain] Steen E, et al. **Tidsskr Nor Laegeforen** 1997 Aug 20; 117(19):2765–9 (Eng. Abstr.) **(Nor)**

[Immediate hypersensitivity in the development of contact sensitivity to disinfectant agents] Kieć-Swierczyńska, et al. **Med Pr** 1996;47(6):533–9 (Eng. Abstr.) **(Pol)**

[Problems of environmental exposure to toxic effects of glutaraldehyde in medicine] Leszczyszyn J, et al.
Med Pr 1997;48(3):335–40 (39 ref.) (Eng. Abstr.) **(Pol)**

[Occupational exposure of medical personnel to chemical factors affecting fertility] Sitarek K, et al. **Med Pr** 1997; 48(2):215–21 (36 ref.) (Eng. Abstr.) **(Pol)**

[Vaccination and intensified sanitary regime for prevention of viral hepatitis type B among medical personnel at the Center for Health of the Child] Zychowicz C, et al.
Przegl Epidemiol 1996;50(3):295–8 (Eng. Abstr.) **(Pol)**

[Post-occupational exposure HIV infection in health workers: an update and preventive measures] Boaventura JL. **Acta Med Port** 1997 Jun–Jul;10(6–7):469–78 (38 ref.) (Eng. Abstr.) **(Por)**

[Approval of the list of organizations, enterprises, works and their structural divisions whose activities grant the right to fix an extra 20% payment (wage rate) for diagnosing and treating HIV-infected persons and also for work connected with HIV-containing specimens]
Klin Lab Diagn 1997 Apr;(4):49–50 **(Rus)**

[Working hours and vacations of specialists dealing with the diagnosis and treatment of HIV-infected persons and those working with HIV-containing specimens]
Klin Lab Diagn 1997 Apr;(4):50–1 **(Rus)**

[The advances in the health care management in the Russian Federation on the basis of the analysis of the health personnel] Cherepanova IS.
Probl Sotsialnoi Gig Istor Med 1995 Sep–Oct;(5):29–33 (Eng. Abstr.) **(Rus)**

[Knowledge of Siberian physicians regarding the issues of primary prophylaxis of chronic non-infectious diseases] Molokov AL. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):39–41 (Eng. Abstr.) **(Rus)**

[The problem of staff imbalance in public health and its consequences] Perfil'eva. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):46–8 **(Rus)**

[The attitude of health personnel and population toward the economic reform in public health system. (The results of a survey in Chelyabinsk)] Rozenfeld LG, et al.
Probl Sotsialnoi Gig Istor Med 1995 Sep–Oct;(5):19–25 (Eng. Abstr.) **(Rus)**

[Incorrect use of pressurized aerosols by health personnel] Domínguez Juncal LM, et al. **An Med Interna** 1996 Oct; 13(10):487–90 (Eng. Abstr.) **(Spa)**

[The management of the occupational exposures of health workers to HIV] Escribano Hernández A.
Aten Primaria 1997 Jun 15;20(1):54–6 **(Spa)**

[Scientific information of health personnel: an approach to the sources, access, costs and research] Oliver Bañuls A.
Aten Primaria 1996 Oct 15;18(6):304–8 (Eng. Abstr.) **(Spa)**

[Repercussions of the 1995 medical strike in a hospital emergency service (letter)] Gamero Samino MJ, et al. **Med Clin (Barc)** 1996 Jul 6;107(6):237 **(Spa)**

[In silversmith house... (editorial; comment)] Roca-Cusachs Coll A. **Med Clin (Barc)** 1997 Apr 26;108(16):613-4. Comment on: Med Clin (Barc) 1997 Apr 26;108(16):604-7. **(Spa)**

[Risk of hepatitis C virus infection among health staff: current facts and prevention potential after exposure] Serra C, et al. **Med Clin (Barc)** 1997 Apr 26;108(16):629-35 **(Spa)**

[Social marketing: a strategy for promoting the health-related professions] Berlingeri LT. **P R Health Sci J** 1997 Mar; 16(1):93-5 **(Spa)**

[Academic responsibility for public policy on health] Firpo-Betancourt A. **P R Health Sci J** 1997 Mar; 16(1):57-62 **(Spa)**

[How should smoking sensitization campaigns be conducted at health institutions?] Jiménez Ruiz CA. **Rev Clin Esp** 1996 Jun;196(6):392-4 **(Spa)**

[Characteristics of tobacco use among the primary health care personnel in Guadalajara] Martínez Pérez JA, et al. **Rev Esp Salud Publica** 1996 Jan-Feb;70(1):51-61 (Eng. Abstr.) **(Spa)**

[More freedom among Norwegian health personnel. Organizational shortage result in more efficient care] Belfrage P. **Lakartidningen** 1997 Aug 27;94(35):2899-900 **(Swe)**

[Health care personnel could slow down the greenhouse effect (letter)] Eriksson NE. **Lakartidningen** 1997 Jul 23; 94(30-31):2632 **(Swe)**

[What will happen when the elite wears down? (letter)] Sjöstedt I. **Lakartidningen** 1997 Jan 22;94(4):220 **(Swe)**

ECONOMICS

Cost-effectiveness of chemoprophylaxis after occupational exposure to HIV. Pinkerton SD, et al. **Arch Intern Med** 1997 Sep 22;157(17):1972-80

EDUCATION

Thermal control of the newborn: knowledge and practice of health professional in seven countries. Dragovich D, et al. **Acta Paediatr** 1997 Jun;86(6):645-50

Life support courses: are they effective? Jabbour M, et al. **Ann Emerg Med** 1996 Dec;28(6):690-8 (39 ref.)

Psychological training for health-care professionals in oncology. A way to improve communication skills. Delvaux N, et al. **Ann N Y Acad Sci** 1997 Feb 20;809:336-49

Improving the breastfeeding knowledge of health professionals. McIntyre E, et al. **Aust Fam Physician** 1996 Sep;25(9 Suppl 2):S68-70

Professionals in the NHS. Normand C. **Br J Hosp Med** 1996 Oct 16-Nov 5;56(8):424-5

Changing patterns of corneal disease and associated vision loss at a rural African hospital following a training programme for traditional healers. Courtright P, et al. **Br J Ophthalmol** 1996 Aug;80(8):694-7

Medical, health-science students bring different perspectives to interdisciplinary ethics course. Kent H. **Can Med Assoc J** 1997 May 1;156(9):1317-8

Training and professional development in diabetes care. Apfel J, et al. **Diabet Med** 1996 Sep;13(9 Suppl 4):S65-76 (9 ref.)

Report of the Patients and Carers Group. Hill J, et al. **Diabet Med** 1996 Sep;13(9 Suppl 4):S60-4 (8 ref.)

Why ask, why tell? Teaching and learning about lesbians and gays in family therapy [comment] Green RJ. **Fam Process** 1996 Sep;35(3):389-400. Comment on: Fam Process 1996 Sep;35(3):377-88.

Working with lesbians, gays, and bisexuals: addressing heterosexism in supervision [see comments] Long JK. **Fam Process** 1996 Sep;35(3):377-88 (69 ref.). Comment in: Fam Process 1996 Sep;35(3):389-400.

Health workforce and education issues during system transition [see comments] O'Neil E, et al. **Health Aff (Millwood)** 1996 Spring;15(1):105-12. Comment in: Health Aff (Millwood) 1996 Spring;15(1):113-7. Comment in: Health Aff (Millwood) 1996 Fall;15(3):283-5.

Disaster plan education: how we made and tested a video. Gray D. **J Accid Emerg Med** 1996 Jan;13(1):21-2.

Developing rural interdisciplinary geriatrics teams in a changing health care environment. Gariola G. **J Allied Health** 1997 Winter;26(1):27-9

Preceptorship, mentorship, and the adult learner in medical and health sciences education. Sachdeva AK. **J Cancer Educ** 1996 Fall;11(3):131-6

From "piety to platitudes to pork" to what? The changing politics of health workforce policy: a view from university-based academic health centers [comment] Bulger RJ. **J Health Polit Policy Law** 1996 Winter; 21(4):845-8; discussion 869-71. Comment on: J Health Polit Policy Law 1996 Winter;21(4):825-44.

From piety to platitudes to pork: the changing politics of health workforce policy [see comments] Fox DM. **J Health Polit Policy Law** 1996 Winter;21(4):825-44. Comment in: J Health Polit Policy Law 1996 Winter;21(4):845-8. Comment in: J Health Polit Policy Law 1996 Winter;21(4):849-53; discussion 869-71. Comment in: J Health Polit Policy Law 1996 Winter;21(4):855-61; discussion 869-71. Comment in: J Health Polit Policy Law 1996 Winter;21(4):863-8; discussion 869-71.

Health care for all, health care for me: the personal nature of health workforce policy [comment] Howell JD. **J Health Polit Policy Law** 1996 Winter;21(4):849-53; discussion 869-71. Comment on: J Health Polit Policy Law 1996 Winter;21(4):825-44.

The question cube: a model for developing question repertoire in training couple and family therapists. Brown JE. **J Marital Fam Ther** 1997 Jan;23(1):27-40

A graduate course in work site health promotion for occupational health practitioners. Kushnir T, et al. **J Occup Environ Med** 1996 Mar;38(3):284-9

Behavior management training for long-term care staff: a note of caution. Maxfield MC, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Dec;34(12):37-8

Preparing health professionals for the genetic revolution [editorial] Collins FS. **JAMA** 1997 Oct 15;278(15):1285-6

Individual goals and training in leprosy: need for revision of current strategy [letter; comment] Awofeso N. **Lepr Rev** 1997 Jun;68(2):179-80. Comment on: Lepr Rev 1995 Jun;66(2):89-95.

An assessment of performance 'contract leprosy workers' in a National Leprosy Eradication Programme [letter] Revankar CR, et al. **Lepr Rev** 1997 Jun;68(2):178-9

Information Management and Technology (IM&T): training provision in postgraduate medical education. Kinn S. **Med Educ** 1996 Sep;30(5):367-70

Promotion of children's early psychosocial development through primary health care services. Tsiantis J, et al. **Paediatr Perinat Epidemiol** 1996 Jul;10(3):339-54

A model for making AIDS training accessible to health professionals in Puerto Rico. Bravo A, et al. **Promot Educ** 1997 Mar;4(1):24-6

Distance learning for health care students. Tanenbaum BG, et al. **Radiol Technol** 1996 Nov-Dec;68(2):157-8 (4 ref.)

Pediatric basic and advanced life support courses: first experience in Spain. López-Herce J, et al. **Resuscitation** 1996 Nov;33(1):43-8

The development of a training model to improve health professionals' skills, self-efficacy and outcome expectancies when communicating with cancer patients. Parle M, et al. **Soc Sci Med** 1997 Jan;44(2):231-40

Training and supporting the telephone intake worker for an AIDS prevention counseling study. Conte CK, et al. **Soc Work** 1996 May;41(3):314-9

An evaluation and improvement program for inpatient anticoagulant control. Phillips WS, et al. **Thromb Haemost** 1997 Feb;77(2):283-8

Nuchal translucency measurement: training of potential examiners. Braithwaite JM, et al. **Ultrasound Obstet Gynecol** 1996 Sep;8(3):192-5

The right skills for health systems development. Richter HI, et al. **World Health Forum** 1996;17(4):392-4

[The training of health personnel by the Marchoux Institute in Bamako from 1979 to 1995] Tiendrébéogo A, et al. **Acta Leprol** 1996;10(1):37-43 (Eng. Abstr.) **(Fre)**

[Palliative care. Education and interdisciplinary cooperation] Chatelanat F. **Rev Med Suisse Romande** 1997 Mar; 117(3):213-4 **(Fre)**

[Sensitivity training for debriefing in the school context] Leuenberger JF. **Rev Med Suisse Romande** 1997 May; 117(5):413-8 (0 ref.) **(Fre)**

[Education in palliative care] Porchet F. **Rev Med Suisse Romande** 1997 Mar;117(3):215-7 **(Fre)**

[Training of health personnel in the framework of humanitarian action. Choosing an assessment model] Marchand C, et al. **Sante** 1996 Sep-Oct;6(5):279-83 (Eng. Abstr.) **(Fre)**

[The role of hygiene departments in the system for training health officers] Amirov NKh, et al. **Gig Sanit** 1997 Mar-Apr;(2):52-3 **(Rus)**

[Challenges of development: scientific activity as an axis for health personnel training] Lage A. **Educ Med Salud** 1995 Jul-Dec;29(3-4):243-56 **(Spa)**

[Impact of an educational manual on knowledge and attitudes of rheumatic patients and health care workers] Pacheco D, et al. **Rev Med Chil** 1996 Sep;124(9):1071-6 (Eng. Abstr.) **(Spa)**

HISTORY

The roles of health professionals in the development and dissemination of women's sanitary products, 1880-1940. Farrell-Beck J, et al. **J Hist Med Allied Sci** 1996 Jul; 51(3):325-52

[The medical professionals of the underground in the Sumy region in the years of the Great Patriotic War] Chernobrov IV. **Probl Sotsialnoi Gig Istor Med** 1996 Jan-Feb;(1):60-1 **(Rus)**

LEGISLATION & JURISPRUDENCE

Your professional future could depend on the controversial policy options in the Pew Commission health care workforce regulation report [editorial] Giordano BP. **AORN J** 1997 Feb;65(2):186

AORN's response to the Pew Taskforce on Health Care Workforce Regulation. Groah LK, et al. **AORN J** 1997 Feb;65(2):202, 205-7, 210-2 passim

Alternative dispute resolution in health care. Klein CA. **AORN J** 1996 Feb;63(2):457-9

The duty of health-care professionals to third parties in Tarasoff-type cases: as a health-care provider in Connecticut do I have a duty to warn? [see comments] Pollack EB, et al. **Conn Med** 1996 Apr;60(4):221-2. Comment in: Conn Med 1996 Jun;60(6):369-70.

Informed consent: a primer for health care practitioners. Wollin DA, et al. **Med Health R I** 1996 Apr;79(4):155-7

MANPOWER see HEALTH MANPOWER

ORGANIZATION & ADMINISTRATION

Professionals in the NHS. Normand C. **Br J Hosp Med** 1996 Oct 16-Nov 5;56(8):424-5

A prospectus for optometry [letter] Wuensch RW. **J Am Optom Assoc** 1996 Aug;67(8):449

Marriage and family therapists and the clergy: a need for clinical collaboration, training, and research. Weaver AJ, et al. **J Marital Fam Ther** 1997 Jan;23(1):13-25 (86 ref.)

Community caring: an ethnographic study within an organizational culture. Davis R. **Public Health Nurs** 1997 Apr;14(2):92-100

PSYCHOLOGY

Burnout and related factors among HIV/AIDS health care workers. Bellani ML, et al. **AIDS Care** 1996 Apr; 8(2):207-21

Is there life after work? Experiences of HIV and oncology health staff. Miller D, et al. **AIDS Care** 1996 Apr; 8(2):167-82

HIV/AIDS health worker stress and burnout: introduction and overview [editorial] Miller D. **AIDS Care** 1996 Apr; 8(2):133-5

Managing patients and families at the ending of life: hospice assumptions, structures, and practice in response to staff stress. Brenner PR. **Cancer Invest** 1997;15(3):257-64

How far have we come in dealing with the emotional challenge of abuse and neglect? Killén K. **Child Abuse Negl** 1996 Sep;20(9):791-5

Stressing out, or outing stress? [editorial] Granger CE, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):543-5

Why ask, why tell? Teaching and learning about lesbians and gays in family therapy [comment] Green RJ. **Fam Process** 1996 Sep;35(3):389-400. Comment on: Fam Process 1996 Sep;35(3):377-88.

Working with lesbians, gays, and bisexuals: addressing heterosexism in supervision [see comments] Long JK. **Fam Process** 1996 Sep;35(3):377-88 (69 ref.). Comment in: Fam Process 1996 Sep;35(3):389-400.

Definition of life quality from a patient versus health care professional perspective. Woodend AK, et al. **Int J Rehabil Res** 1997 Mar;20(1):71-80 (35 ref.)

Reflecting on the meaning of success [editorial] Sowell RL. **J Assoc Nurses AIDS Care** 1996 Nov-Dec;7(6):17-8

Swedish Health care personnel's perceptions of disease and treatment-related problems experienced by children with cancer and their families. Enskar K, et al. **J Pediatr Oncol Nurs** 1996 Apr;13(2):61-70; discussion 71

Fatigue in the workforce of National Health Service Trusts: levels of symptomatology and links with minor psychiatric disorder, demographic, occupational and work role factors. Hardy GE, et al. **J Psychosom Res** 1997 Jul;43(1):83-92

An investigation of attitudes, beliefs and behaviour of leprosy patients, family members and PHC workers towards multidrug therapy in Yangzhou and Dongtai Districts of China. Chen XS, et al. **Lepr Rev** 1997 Jun;68(2):155-61

The job satisfaction of physical therapists. Speakman HG, et al. **Physiother Res Int** 1996;1(4):247-54

Teaching people to use the 'best' medical record system. Ways to reduce fear and trembling [editorial] Potts JF. **Postgrad Med** 1997 Apr;101(4):33-5, 40

Fit for the future? A role for health professionals in housing management. Easterlow D, et al. **Public Health** 1997 May; 111(3):171-8

HIV/AIDS infection control enforcement: a comparison between Nigeria and the United States [see comments] Essien EJ, et al. **Public Health** 1997 Jul;111(4):205-9. Comment in: Public Health 1997 Jul;111(4):199.

Improving job satisfaction of rural South Dakota mental health providers through education: a pilot study. Bhatara VS, et al. **S D J Med** 1996 Mar;49(3):93-6

Attitudes and beliefs of staff working in methadone maintenance clinics. Caplehorn JR, et al. **Subst Use Misuse** 1996 Mar;31(4):437-52

Matching the clinical function and symptom status with the expectations of patients with advanced cancer, their families, and health care workers. Neuenschwander H, et al. **Support Care Cancer** 1997 May;5(3):252-6

Organization stressors and the experience of distress in health service organizations: symptoms, causes and remedies [see comments] Foster MC, et al. **Trop Doct** 1997 Apr; 27(2):73-5. Comment in: Trop Doct 1997 Apr;27(2):65-6.

Stress in health care workers [editorial; comment] Munro B. **Trop Doct** 1997 Apr;27(2):65-6. Comment on: Trop Doct 1997 Apr;27(2):73-5.

[A chaplain in a palliative care center: professional grief and resources] Pictet C. **Rev Med Suisse Romande** 1997 Mar; 117(3):224-5 **(Fre)**

[Stress reactivity and affective psychopathology in health care workers] De Las Cuevas Castresana C, et al. **Actas Luso Esp Neurol Psiquiatr Cienc Afines** 1996 Jan-Feb;24(1):19-24 (Eng. Abstr.) **(Spa)**

STANDARDS

Knowledge of lymphoedema among primary health care teams: a questionnaire survey. Logan V, et al. **Br J Gen Pract** 1996 Oct;46(411):607-8

HEALTH PERSONNEL

The multilevel compliance challenge: recommendations for a call to action. A statement for healthcare professionals. Miller NH, et al. **Circulation** 1997 Feb 18;95(4):1085–90

Management of healthcare workers infected with hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or other bloodborne pathogens. AIDS/TB Committee of the Society for Healthcare Epidemiology of America. **Infect Control Hosp Epidemiol** 1997 May;18(5):349–63

A regional comparison of cardiac rehabilitation personnel. Adherence to the 1995 American Association of Cardiovascular and Pulmonary Rehabilitation Guidelines by Staff Position. Bennett SB, et al. **J Cardiopulm Rehabil** 1997 Mar–Apr;17(2):92–102

Our HMO view [editorial] Ward SD. **W V Med J** 1997 Jul–Aug;93(4):171

[Nursing and caregiving personnel; qualified for the future] Huijer Abu-Saad H. **Ned Tijdschr Geneeskd** 1996 Nov 23; 140(47):2323–5 **(Dut)**

[The role of public health professionals in the face of health problems] Alfieri R, et al. **Epidemiol Prev** 1996 Jan–Mar; 20(1):3–10 **(Ita)**

STATISTICS & NUMERICAL DATA

New recommendations for prophylaxis after HIV exposure. Perlmutter BL, et al. **Am Fam Physician** 1997 Feb 1; 55(2):507–12, 515–7 (22 ref.)

The prevalence of Helicobacter pylori infection among inhabitants and healthy employees of institutes for the intellectually disabled. Böhmer CJ, et al. **Am J Gastroenterol** 1997 Jun;92(6):1000–4

Occupational exposure to the risk of HIV infection among health care workers in Mwanza Region, United Republic of Tanzania. Gumodoka B, et al. **Bull World Health Organ** 1997;75(2):133–40

A prospective study of alcohol, smoking, caffeine, and the risk of duodenal ulcer in men. Aldoori WH, et al. **Epidemiology** 1997 Jul;8(4):420–4

Public health professionals and interpersonal violence. Coughlin SS. **Epidemiology** 1997 Jul;8(4):458–9

Use of eye care services among the 1991 Medicare population. Ellwein LB, et al. **Ophthalmology** 1996 Nov; 103(11):1732–43

[Suicidal poisoning of health service personnel with graduate level education in material from the Acute Poison center in Lublin from 1992–1996] Szponar J, et al. **Przegl Lek** 1997;54(6):472–3 (Eng. Abstr.) **(Pol)**

[The incidence and distribution of accidents with biological fluids among health personnel and the general population] Imaz Iglesia I, et al. **Gac Sanit** 1996 Nov–Dec;10(57):274–81 (Eng. Abstr.) **(Spa)**

[Tobacco addiction in primary health care workers in the health area number 4 of Insalud in Madrid: prevalence of consumption and attitude] Ortiz Marrón H, et al. **Rev Esp Salud Publica** 1996 May–Jun;70(3):295–302 (Eng. Abstr.) **(Spa)**

SUPPLY & DISTRIBUTION see HEALTH MANPOWER

TRENDS

The changing roles of health care personnel in health and health care management. Hunter DJ. **Soc Sci Med** 1996 Sep;43(5):799–808 (31 ref.)

[Proceedings of the 1st Hispanic Congress of the Health-Related Professions. Puerto Rico, 8–10 October 1996] **P R Health Sci J** 1997 Mar;16(1):53–95 **(Spa)**

HEALTH PHYSICS

see related
RADIATION MONITORING
RADIATION PROTECTION
RADIOMETRY

42nd Annual meeting of the Health Physics Society. San Antonio, Texas, 29 June–3 July 1997. Abstracts. **Health Phys** 1997 Jun;72(6 Suppl):S1–91

Radionuclides in the body: meeting the challenge. Lauriston S. Taylor Lecture. Blair WJ. **Health Phys** 1997 Sep; 73(3):423–32 (52 ref.)

1996 William McAdams Outstanding Service Award. Presented to Frazier L. Bronson. Brown R. **Health Phys** 1996 Dec;71(6):842–3

The Health Physics Web. Busby B. **Health Phys** 1996 Dec; 71(6):846

Electronic mailing lists [news] Busby B. **Health Phys** 1997 Feb;72(2):177–8

Characterization and solubility measurements of uranium-contaminated soils to support risk assessment. Elless MP, et al. **Health Phys** 1997 May;72(5):716–26

1996 National Registry of Radiation Protection Technologists Arthur F. Humm, Jr., Memorial Award. Presented to Charles (Bama) McKnight. Nelsen L. **Health Phys** 1996 Dec;71(6):844

1996 National Registry of Radiation Protection Technologists Arthur F. Humm, Jr., Memorial Award. Presented to Claude D. and Bunnie Hooker. Nelsen L. **Health Phys** 1996 Dec;71(6):845

Fundamentals for establishing a risk communication program. Ng KL, et al. **Health Phys** 1997 Sep;73(3):473–82

1996 Founders Award. Presented to Thomas L. Pitchford. Tolan J. **Health Phys** 1996 Dec;71(6):835–7

1996 Elda E. Anderson Award. Presented to Michael G. Stabin. Toohey RE. **Health Phys** 1996 Dec;71(6):838–9

The role and contribution of a medical physicist in a radiology department. Van Loon R. **J Belge Radiol** 1997 Feb;80(1):12–6

Effective communication on radiation risk: who is at fault? [letter] Courey MH. **J Nucl Med** 1996 Nov;37(11):1913–4

INSTRUMENTATION

[The prospects for using mobile units for radiation hygiene control in the Navy] Sharaevskiĭ GIu, et al. **Voen Med Zh** 1996 Oct;317(10):51–4, 80 (Eng. Abstr.) **(Rus)**

LEGISLATION & JURISPRUDENCE

Notices of violation issued to Texas radioactive material licensees inspected in 1995. Emery RJ, et al. **Health Phys** 1997 Oct;73(4):706–9

MANPOWER

Quality assurance in radiotherapy: the importance of medical physics staffing levels. Recommendations from an ESTRO/EFOMP joint task group. Belletti S, et al. **Radiother Oncol** 1996 Oct;41(1):89–94

[The personnel needs of health physics in radiotherapy (see comments)] Schneider P, et al. **Strahlenther Onkol** 1996 Mar;172(3):148–53; discussion 154–5 (Eng. Abstr.). Comment in: Strahlenther Onkol 1996 Mar;172(3):117. **(Ger)**

METHODS

[The principles and methodology for assessing radiation risk: the medical and socioecological contradictions] Davydov BI, et al. **Aviakosm Ekolog Med** 1996;30(3):8–16 (Eng. Abstr.) **(Rus)**

STANDARDS

Howard Hughes Medical Institute dose assessment survey. O'Brien SL, et al. **Health Phys** 1996 Dec;71(6):966–9

HEALTH PLAN IMPLEMENTATION

Implementing reproductive health awareness: progress to date. Cachan J, et al. **Adv Contracept** 1997 Jun–Sep; 13(2–3):363–71 (3 ref.)

Implementing a continuous renal replacement therapies program. Craig MA, et al. **Adv Ren Replace Ther** 1996 Oct;3(4):348–50

Equitable provision of health services to aboriginal and Torres Strait Islander people of Queensland. Runciman C, et al. **Aust N Z J Public Health** 1996 Feb;20(1):15–7

Implementation of adolescent vaccination programmes through school. Knops J, et al. **Biologicals** 1997 Jun; 25(2):155–7

Obstacles to extending fluoridation in the United States. Neenan ME. **Community Dent Health** 1996 Sep;13 Suppl 2:10–20 (64 ref.)

Population-based care of depression: effective disease management strategies to decrease prevalence. Katon W, et al. **Gen Hosp Psychiatry** 1997 May;19(3):169–78 (39 ref.)

Status of health promotion program implementation and future tasks in Japanese companies [published erratum appears in Ind Health 1996;34(3):293] Muto T, et al. **Ind Health** 1996;34(2):101–11

Communication: cornerstone to success in implementation of health programmes. Gupta VM. **Indian J Public Health** 1996 Jul–Sep;40(3):62–7 (12 ref.)

The role of village leaders in the implementation of multidrug therapy for leprosy, Sudan -- a pilot study in the Angasana Hills [see comments] Ahmed KM, et al. **Lepr Rev** 1996 Mar;67(1):39–46. Comment in: Lepr Rev 1997 Mar;68(1):90–3.

[Conception, implementation and evaluation of the new general medicine continuing education curriculum in Südbaden] Härter M, et al. **Z Arztl Fortbild (Jena)** 1996 Aug;90(5):400–5 (Eng. Abstr.) **(Ger)**

ECONOMICS

Development and implementation of clinical pathways for stroke on a multihospital basis. Hainsworth DS, et al. **J Neurosci Nurs** 1997 Jun;29(3):156–62

ORGANIZATION & ADMINISTRATION

Evaluation of a national health promotion program in South Australia. Baum F, et al. **Aust N Z J Public Health** 1996 Feb;20(1):41–9

Implementation of the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD–10). **Epidemiol Bull** 1997 Mar;18(1):1–4

Use of the Healthy School Profile in the Middlesex–London, Ontario, Schools. Mitchell I, et al. **J Sch Health** 1997 Apr; 67(4):154–6

Application of TQM to mental health: lessons from ten mental health centers. Sluyter GV. **Jt Comm J Qual Improv** 1996 Jan;22(1):67–75

STANDARDS

Implementation of ethnic health policy in community mental health centres in Melbourne. Ziguras SJ. **Aust N Z J Public Health** 1997 Jun;21(3):323–8

TRENDS

Community psychiatry: central policy, local implementation [editorial] O'Grady JC. **Br J Psychiatry** 1996 Sep; 169(3):259–62

[Comments on the contribution by W. Gaebel. Quality assurance in psychiatry. Concept–methodology–implementation (letter; comment)] Hinsenkamp EK. **Nervenarzt** 1996 May;67(5):427–8. Comment on: Nervenarzt 1995 Jul;66(7):481–93. **(Ger)**

[Medical guidelines. Definitions, goals, implementation] Ollenschläger G, et al. **Z Arztl Fortbild (Jena)** 1996 Jun; 90(4):355–61 (14 ref.) (Eng. Abstr.) **(Ger)**

HEALTH PLANNING

Alcohol and other drug problems and treatment systems: a framework for research and development [editorial] Rush B. **Addiction** 1996 May;91(5):629–42

Assertive community treatment: organizational adaptation. Plaut ER. **Adm Policy Ment Health** 1997 May;24(5):435–41

STD/HIV prevention in Turkey: planning a sequence of interventions. Aral SO, et al. **AIDS Educ Prev** 1995 Dec; 7(6):544–53

Alaskans voice strong support for tobacco tax increase. Holen AM. **Alaska Med** 1996 Jan–Mar;38(1):41–2

Integrating HIV prevention, STD, and family planning services. A sexual and reproductive health approach in Latin America and the Caribbean [letter; comment] Becker J, et al. **Am J Public Health** 1997 Apr;87(4):692–3. Comment on: Am J Public Health 1996 Jun;86(6):783–4.

Information for health and human development. Alleyne GA. **Bull Med Libr Assoc** 1996 Jan;84(1):82–5

Re: The limits of small area analyses for health planning [letter; comment] Holley H. **Can J Psychiatry** 1996 May; 41(4):257–8. Comment on: Can J Psychiatry 1995 Nov;40(9):527–32.

Enhancing prevention in the practice of health professionals. Butler-Jones D. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S75–8

The development of a computerized health information system to facilitate program planning/evaluation and enhanced First Nations control of community health services. Johnson RJ. **Can J Public Health** 1997 May–Jun; 88(3):207–9

Surveillance support for population health decision making [editorial] Sherman GJ, et al. **Can J Public Health** 1996 Jul–Aug;87(4):221–3 **(Eng, Fre)**

Advantages and disadvantages of an essential drugs programme [editorial] Levy LM. **Cent Afr J Med** 1996 Jul;42(7):218–9

The balance of prevention, investigation, and treatment in the management of child protection services. Sanders R, et al. **Child Abuse Negl** 1996 Oct;20(10):899–906

Health information for district level planning: a cross-sectional household survey in rural Kenya. Nordberg E, et al. **East Afr Med J** 1996 Jun;73(6):364–9

Normative models and healthcare planning: network-based simulations within a geographic information system environment. Walsh SJ, et al. **Health Serv Res** 1997 Jun; 32(2):243–60

Needs, demands and manpower balance. Dentists/populations. FDI Commission, 1996. Colombet P, et al. **Int Dent J** 1996 Dec;46(6):543–7

Is unemployment pathogenic? A review of current concepts with lessons for policy planners. Shortt SE. **Int J Health Serv** 1996;26(3):569–89 (115 ref.)

Training people with HIV disease for involvement in community planning process: Project LEAP. Learning Empowerment Advocacy, Participation. Halloran JP, et al. **J Assoc Nurses AIDS Care** 1996 Nov–Dec;7(6):39–47

Planning for a community-based hypertension control program in the inner city. Kotchen JM, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S9–13 (22 ref.)

Need-based planning versus individual ambition [letter] Sharma RC, et al. **J Indian Med Assoc** 1996 Jan;94(1):34

Caring for Georgia's elderly: MAG's involvement. Thurman L, et al. **J Med Assoc Ga** 1997 Apr;86(2):138–43

Building a shared vision for nursing in rural Missouri. Kuehn AF. **J Nurs Adm** 1997 Sep;27(9):4–7

Pediatric surgeons' activities and future plans. Bouchard S, et al. **J Pediatr Surg** 1997 Jun;32(6):801–5

Clinical genetics services into the 21st century. Summary of a report of the Clinical Genetics Committee of the Royal College of Physicians. Harper PS, et al. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):296–301

Providing support and assistance for low-income or homeless women [letter; comment] Plummer L, et al. **JAMA** 1996 Dec 18;276(23):1874–5. Comment on: JAMA 1996 Aug 28;276(8):640–6.

Imperfect plans for health research in Europe [editorial; comment] [see comments] **Lancet** 1997 May 10; 349(9062):1335. Comment on: Lancet 1997 May 10;349(9062):1341–6. Comment in: Lancet 1997 Jun 28;349(9069):1917.

European health research [letter; comment] Amaducci L. **Lancet** 1997 Jun 28;349(9069):1917. Comment on: Lancet 1997 May 10;349(9062):1335.

Readiness: observations and comments from a medical team deployment. Popper SE, et al. **Mil Med** 1997 Feb; 162(2):109–12

Heterogeneities in the transmission of infectious agents: implications for the design of control programs. Woolhouse ME, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7; 94(1):338–42

Deinstitutionalization of the elderly in Finland, 1981–91. Aro S, et al. **Scand J Soc Med** 1997 Jun;25(2):136–43

A coverage plan for health centres in Murewa district in Zimbabwe: an example of action research. Criel B, et al. **Trop Med Int Health** 1996 Oct;1(5):699–709

The role of nurses and midwives in government. Ralph C, et al. **WHO Reg Publ Eur Ser** 1997;74:167–90 (9 ref.)

[Cancer trends and health care planning: toward a better use of cancer registries] Coleman MP, et al.
Rev Epidemiol Sante Publique 1996;44 Suppl 1:S2–6 (Eng. Abstr.) **(Fre)**

[Awareness of health and welfare planning for elderly and methods to increase awareness: based on social marketing] Tamura M, et al. **Nippon Koshu Eisei Zasshi** 1996 Nov; 43(11):954–64 (Eng. Abstr.) **(Jpn)**

[The practical theory of occupational health planning: Part One—The theoretical background of the target population setting and needs assessment procedures (OPST research report 2)] Jahng DJ, et al. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):193–201 (5 ref.) (Eng. Abstr.) **(Jpn)**

[The practical theory of occupational health planning: Part Two—The theoretical background from the priority setting procedure to the post project appraisal making procedure (OPST research report 3)] Jahng DJ, et al.
Sangyo Ika Daigaku Zasshi 1996 Sep 1;18(3):203–11 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Aiming for the establishment of 10-year mental health planing] **Seishin Shinkeigaku Zasshi** 1995;97(12):1071–95; discussion 1095–9 **(Jpn)**

[National and regional functions. What does the National Health Council's scientific committee mean by highly specialized medicine?] Faye-Lund H, et al.
Tidsskr Nor Laegeforen 1997 Jan 20;117(2):255–7 **(Nor)**

[From plan to chaos? Norwegian health care through 50 turbulent years] Nordby T. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2508–10 **(Nor)**

[Public health planning in public health reform] Preobrazhenskaya VS, et al.
Probl Sotsialnoi Gig Istor Med 1995 May–Jun;(3):15–8 **(Rus)**

[Johan Calltorp on the health care crisis: politicians are at loss—a good occasion for the physicians to take initiative! (Interview)] Calltorp J. **Lakartidningen** 1997 May 28; 94(22):2054–6 **(Swe)**

[A strongly misleading picture of the needs of patients with dementia in the HSU2000 report (letter)] Karlsson I.
Lakartidningen 1996 Dec 18;93(51–52):4716 **(Swe)**

ECONOMICS

From health services economics to health economics: for debate [letter] Edwards R, et al. **J Public Health Med** 1996 Sep;18(3):374

Satisfying consumer choice: a quality issue in the health sector [editorial] Indaratna K.
Southeast Asian J Trop Med Public Health 1996 Sep; 27(3):415–7

LEGISLATION & JURISPRUDENCE

The Family Preservation and Support Services Program. Ahsan N. **Future Child** 1996 Winter;6(3):157–60

METHODS

State services research capacity: building a state infrastructure for mental health services research. Bevilacqua JJ, et al. **Community Ment Health J** 1996 Dec; 32(6):519–33

A population needs assessment profile for dementia. Gordon DS, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):642–7

Estimating population size when duplicates are present. Laska EM, et al. **Stat Med** 1996 Aug 15;15(15):1635–46

[The stomatological morbidity of the population of Russia and the planning principles for prevention programs] Kuz'mina EM, et al. **Stomatologiia (Mosk)** 1996;Spec No:11–2 **(Rus)**

[Methodological approaches to the planning of hospital medical care in military treatment and prevention institutions] Bobiĭ BV, et al. **Voen Med Zh** 1996 Sep; 317(9):18–22 **(Rus)**

[The methodological aspects in determining standards in the demand for surgical beds] Bobiĭ BV, et al.
Voen Med Zh 1997 May;318(5):4–10 **(Rus)**

ORGANIZATION & ADMINISTRATION

Towards a gender-sensitive approach to drug demand reduction: a process within the United Nations system. Hsu LN, et al. **Bull Narc** 1995;47(1–2):1–14

Environmental aspects of the reuse of former military lands. NATO CCMS Pilot Study. Clark S, et al.
Cent Eur J Public Health 1996 Dec;4(4):266–7

Mental health care for the elderly [editorial] Sartorius N. **Int J Geriatr Psychiatry** 1997 Apr;12(4):430–1

Health care systems in transition: confronting new problems in changing circumstances. Beck EJ, et al.
J Public Health Med 1996 Sep;18(3):254–7

The use of mapping in public health and planning health services. Gordon A, et al. **J Public Health Med** 1997 Jun; 19(2):139–47 (8 ref.)

Health care systems in transition: The Netherlands. Part I: Health care reforms in The Netherlands: miracle or mirage? Schut FT. **J Public Health Med** 1996 Sep;18(3):278–84

Planning and commissioning of health services for children and young people. Webb E, et al. **J Public Health Med** 1996 Jun;18(2):217–20

Double loop learning and the quality of quality improvement. Elliott RL. **Jt Comm J Qual Improv** 1996 Jan;22(1):59–66

National action plans for nursing and midwifery. Leenders F, et al. **WHO Reg Publ Eur Ser** 1997;74:145–66 (16 ref.)

[Ivory Coast modernizes its health system] Diarra J, et al.
Med Trop (Mars) 1996;56(4):333–8 (16 ref.) **(Fre)**

[The application of risk strategy to a maternal-child program at a health center] Carrasco Rodríguez A, et al.
Aten Primaria 1997 Apr 30;19(7):362–6 (Eng. Abstr.) **(Spa)**

STANDARDS

Responsibilities and effectiveness of the juvenile court in handling dependency cases. Hardin M. **Future Child** 1996 Winter;6(3):111–25

Fighting tuberculosis in the 1990s: how effective is planning in policy making? Dievler A. **J Public Health Policy** 1997; 18(2):167–87 (90 ref.)

[Use of an index of social welfare for health planning at a municipal level] Ochoa-Díaz López H, et al.
Salud Publica Mex 1996 Jul–Aug;38(4):257–67 (Eng. Abstr.) **(Spa)**

STATISTICS & NUMERICAL DATA

Personnel planning for the next generation of orthodontic patients. Waldman HB.
Am J Orthod Dentofacial Orthop 1996 Nov;110(5):520–6; discussion 527

TRENDS

Health status of newcomers. Matuk LC.
Can J Public Health 1996 Jan–Feb;87(1):52–5

A prescription for healing the system [see comments] Lopez S. **Pa Med** 1996 Jul;99(7):12. Comment in: Pa Med 1996 Oct;99(10):12.

Perspective on the integration of substance user needs assessment and treatment planning. Ford WE.
Subst Use Misuse 1997 Feb;32(3):343–9; discussion 351–7, 359–60

[General practice 2000—what should be done today? (interview)] Ehlers A. **Fortschr Med** 1997 Mar 30; 115(9):53–4 **(Ger)**

HEALTH PLANNING COUNCILS

Challenges faced by the HIV health services planning council in Oakland, California, 1991–1994. Kieler BW, et al.
Am J Prev Med 1996 Jul–Aug;12(4 Suppl):26–32

President's address to the General Dental Council [editorial] Seward M. **Br Dent J** 1997 May 24;182(10):363–6

Health technology assessment. Kearney B.
J Qual Clin Pract 1996 Sep;16(3):131–43

ORGANIZATION & ADMINISTRATION

A new national bioethics commission—maybe. Palca J.
Hastings Cent Rep 1996 Jan–Feb;26(1):5

An inter district quality partnership: the experience of a large rural health service. Turner R. **J Qual Clin Pract** 1996 Sep;16(3):145–50

HEALTH PLANNING GUIDELINES

Managed care and open-heart surgery facilities in California. Chernew M, et al. **Health Aff (Millwood)** 1996 Spring; 15(1):191–201

Tumor markers and lung cancer: guidelines in a cost-limited medical organization. Falcone F, et al.
Int J Biol Markers 1996 Apr–Jun;11(2):61–6

Implementation of health care guidelines for older persons is being delayed [news] Carbonin P. **J Am Geriatr Soc** 1997 May;45(5):624

Bright Futures: guidelines for health supervision of children. Fleming JW. **MCN Am J Matern Child Nurs** 1996 Nov–Dec;21(6):269–70

Eye care for elderly Americans with diabetes mellitus. Failure to meet current guidelines. Wang F, et al.
Ophthalmology 1996 Nov;103(11):1744–50

Healthy People 2000: meshing national and local health objectives. Sondik E. **Public Health Rep** 1996 Nov–Dec; 111(6):518–20

Year 2000 health status indicators: a profile of California. Sutocky JW, et al. **Public Health Rep** 1996 Nov–Dec; 111(6):521–6

Making hospitals baby friendly [news] Jones JS.
S Afr Med J 1996 Jul;86(7):764, 766

[Quality of the location as a principle in psychiatric health care planning] Meise U, et al. **Gesundheitswesen** 1996 Jul; 58(1 Suppl):29–37 (Eng. Abstr.) **(Ger)**

[The limits of health reporting in health planning] Pfaff G, et al. **Gesundheitswesen** 1996 Nov;58(11):602–5 (Eng. Abstr.) **(Ger)**

[Quality of life as a planning and evaluation criterion in psychiatric management] Priebe S, et al.
Gesundheitswesen 1996 Jul;58(1 Suppl):86–90 (Eng. Abstr.) **(Ger)**

HEALTH PLANNING ORGANIZATIONS

The brucellosis affected dairy herd and the program veterinarian. Sawyer JC.
Comp Immunol Microbiol Infect Dis 1996 Jun;19(3):191–7

Onchocerciasis control [news] **World Health Forum** 1996; 17(2):206

[Do we still need county councils? An administrative apparatus which outlived its day] Nordlander NB.
Lakartidningen 1996 Sep 25;93(39):3339–40 **(Swe)**

ORGANIZATION & ADMINISTRATION

Georgia Ethics Committee Consortium: a statewide dialogue. Kinlaw K. **Camb Q Healthc Ethics** 1996 Winter;5(1):167–8

STANDARDS

[The National Board of Health and Welfare and a county council were not approved by quality control (letter)] Ljungdahl L. **Lakartidningen** 1997 Apr 16;94(16):1470, 1473 **(Swe)**

HEALTH PLANNING SUPPORT

ORGANIZATION & ADMINISTRATION

Sectoral investment in health: prescription or principles? Cassels A, et al. **Soc Sci Med** 1997 Apr;44(7):1073–6

HEALTH PLANNING TECHNICAL ASSISTANCE

[Hansen disease in Mercosur] Vazquez FA, et al.
Acta Leprol 1996;10(2):79–84 (Eng. Abstr.) **(Spa)**

ORGANIZATION & ADMINISTRATION

Sectoral investment in health: prescription or principles? Cassels A, et al. **Soc Sci Med** 1997 Apr;44(7):1073–6

HEALTH PLANS, ACCOUNTABLE see **MANAGED COMPETITION**

HEALTH PLANS, PREPAID see **PREPAID HEALTH PLANS**

HEALTH POLICY

Future prospects for Alzheimer's disease therapy: ethical and policy issues for the international community. Whitehouse PJ. **Acta Neurol Scand Suppl** 1996;165:145–9

How are nations trying to prevent suicide? An analysis of national suicide prevention strategies. Taylor SJ, et al.
Acta Psychiatr Scand 1997 Jun;95(6):457–63 (29 ref.)

Health, Society and Alcohol [editorial] Anderson P.
Addiction 1997 Mar;92 Suppl 1:S3–6

Guidelines on sensible drinking. Anderson P, et al.
Addiction 1996 Jan;91(1):25–33

Application of local policy to prevent alcohol problems: experiences from a community trial. Holder HD, et al.
Addiction 1997 Jun;92 Suppl 2:S285–92

From research to policy: when cutting edge meets coalface. Richmond R. **Addiction** 1996 Jan;91(1):35–7

Place of work, communities and municipalities. Ritson B.
Addiction 1997 Mar;92 Suppl 1:S127–32

Alcohol, Europe and the developing countries. Saxena S.
Addiction 1997 Mar;92 Suppl 1:S43–8

Issues to consider in operationalizing reproductive health. Spicehandler J. **Adv Contracept** 1997 Jun–Sep; 13(2–3):345–50 (12 ref.)

The National 5 A Day for Better Health Program. Heimendinger J, et al. **Adv Exp Med Biol** 1996;401:199–206 (29 ref.)

Summary of track D: social science: research, policy and action. Mane P, et al. **AIDS** 1996 Dec;10 Suppl 3:S123–32 (184 ref.)

An overview of HIV prevention in central and eastern Europe. Danziger R. **AIDS Care** 1996 Dec;8(6):701–7 (10 ref.)

Tobacco taxes: the Canadian experience. Sweanor DT.
Alaska Med 1996 Jan–Mar;38(1):40–1

Weighing the evidence: the Canadian experience. Goldbloom RB. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):584S–586S (6 ref.)

Nature and role of observational studies in public health policy concerning the effects of dietary salt intake on blood pressure. Haynes RB. **Am J Clin Nutr** 1997 Feb;65(2 Suppl):622S–625S (7 ref.)

Fish consumption, fish oil, lipids, and coronary heart disease. Stone NJ. **Am J Clin Nutr** 1997 Apr;65(4):1083–6 (41 ref.)

A policy perspective on prevention [comment] Mrazek PJ, et al. **Am J Community Psychol** 1997 Apr;25(2):221–6. Comment on: Am J Community Psychol 1997 Apr;25(2):115–52.

Judging who needs emergency department care: a prerequisite for policy-making. Lowe RA, et al.
Am J Emerg Med 1997 Mar;15(2):133–6

Occupational therapy in home health: rapid changes need proactive planning. Atchison B. **Am J Occup Ther** 1997

Jun;51(6):406–9
Policy implications of outcomes research. Ellek D. **Am J Occup Ther** 1996 Nov–Dec;50(10):886–9
Screening mammography for breast cancer: American College of Preventive Medicine practice policy statement. Ferrini R, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):340–1
Finished at fifty: the politics of the menopause and hormone replacement therapy. Gonyea JG. **Am J Prev Med** 1996 Sep–Oct;12(5):415–9
Cervical cancer screening: American College of Preventive Medicine practice policy statement. Hawkes AP, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):342–4
Taking a seat at the table: the new practice policy statements of the American College of Preventive Medicine. Woolf SH, et al. **Am J Prev Med** 1996 Sep–Oct;12(5):338–9
Policy research for disease prevention: challenges and practical recommendations. Brownson RC, et al. **Am J Public Health** 1997 May;87(5):735–9
Public participation in medical policy–making and the status of consumer autonomy: the example of newborn–screening programs in the United States [see comments] Hiller EH, et al. **Am J Public Health** 1997 Aug;87(8):1280–8. Comment in: Am J Public Health 1997 Aug;87(8):1275–7.
Interpreting HIV prevalence and incidence among Americans: bridging data and public policy. Mills TC, et al. **Am J Public Health** 1997 May;87(5):864–6
Topics for our times: the medicine/public health initiative. Reiser SJ. **Am J Public Health** 1997 Jul;87(7):1098–9
Public health history and advocacy in the money–driven 1990s [editorial; comment] Stevens R. **Am J Public Health** 1996 Nov;86(11):1522–3. Comment on: Am J Public Health 1996 Nov;86(11):1637–47.
American Society of Anesthesiologists infection control policy [letter] Berry AJ. **Anaesth Intensive Care** 1996 Oct; 24(5):618
Revision of the anaesthetic aspects of an infection control policy following reporting of hepatitis C nosocomial infection [see comments] Knoblanche GK. **Anaesth Intensive Care** 1996 Apr;24(2):169–72. Comment in: Anaesth Intensive Care 1996 Aug;24(4):514. Comment in: Anaesth Intensive Care 1997 Feb;25(1):86–7.
How consumers and policymakers can use systematic reviews for decision making. Bero LA, et al. **Ann Intern Med** 1997 Jul 1;127(1):37–42
Effective reperfusion for acute myocardial infarction begins with effective health policy [editorial; comment] Lee TH. **Ann Intern Med** 1997 Apr 15;126(8):652–3. Comment on: Ann Intern Med 1997 Apr 15;126(8):593–9.
The way things were—the ways things ought to be. Replogle RL. **Ann Thorac Surg** 1997 Apr;63(4):923–9
Moral and policy issues in long–acting contraception. Brown GF, et al. **Annu Rev Public Health** 1997;18:379–400 (69 ref.)
Environmental tobacco smoke: health effects and policies to reduce exposure. Brownson RC, et al. **Annu Rev Public Health** 1997;18:163–85 (117 ref.)
Physician payment policies: impacts and implications. Rice T. **Annu Rev Public Health** 1997;18:549–65 (32 ref.)
Preventing lead poisoning in children. Silbergeld EK. **Annu Rev Public Health** 1997;18:187–210 (78 ref.)
Your professional future could depend on the controversial policy options in the Pew Commission health care workforce regulation report [editorial] Giordano BP. **AORN J** 1997 Feb;65(2):186
State–to–state variations in newborn screening policies. Stoddard JJ, et al. **Arch Pediatr Adolesc Med** 1997 Jun; 151(6):561–4
Valuing the past...investing in the future. Blewett N. **Aust N Z J Public Health** 1996 Aug;20(4):343–5
Destined to repeat history? Dowsett GW. **Aust N Z J Public Health** 1996 Aug;20(4):345–7
Feachem's report on Australia's National HIV/AIDS Strategy [editorial] Kaldor J. **Aust N Z J Public Health** 1996 Aug;20(4):342–3
Assessing the National HIV/AIDS Strategy evaluation. Kault D. **Aust N Z J Public Health** 1996 Aug;20(4):347–51
Legalising abortion: it's time [editorial] Richters J. **Aust N Z J Public Health** 1996 Feb;20(1):3–4
Why should Australia adopt universal infant hepatitis B vaccination? Thompson SC, et al. **Aust N Z J Public Health** 1996 Aug;20(4):436–9
Implementation of ethnic health policy in community mental health centres in Melbourne. Ziguras SJ. **Aust N Z J Public Health** 1997 Jun;21(3):323–8
New AsMA HIV policy [news] **Aviat Space Environ Med** 1997 Mar;68(3):279
Smoking cessation. 3: Needed healthcare policy changes. McClure JB, et al. **Behav Med** 1997 Spring;23(1):29–34
Policy making for vaccinations of adolescents/adults. Bouvet E, et al. **Biologicals** 1997 Jun;25(2):143–5
Adult pertussis: a salesman's dream—and an epidemiologist's nightmare. Fine PE. **Biologicals** 1997 Jun;25(2):195–8 (22 ref.)
Booster policy for adults. Marth E. **Biologicals** 1997 Jun; 25(2):199–203 (24 ref.)
Good performance of vaccination by education. Peltola H. **Biologicals** 1997 Jun;25(2):237–9 (9 ref.)
Tapping the potential of government–industry collaboration. Petricciani JC, et al. **Biologicals** 1996 Sep;24(3):149–55
Public information and vaccination policy. Salisbury DM. **Biologicals** 1997 Jun;25(2):241
Harmonization of vaccination policy. Schaack JC. **Biologicals** 1997 Jun;25(2):243–5
Implementation of vaccination policies. Schaad UB. **Biologicals** 1997 Jun;25(2):147–9
Health for all by the year 2000. WHO is spearheading global consultation to update policy on health for all [letter; comment] Antezana FS. **BMJ** 1996 Nov 23;313(7068):1331 . Comment on: BMJ 1996 Aug 10;313(7053):316.
Health and the life course: why safety nets matter. Bartley M, et al. **BMJ** 1997 Apr 19;314(7088):1194–6
Health priorities for the European intergovernmental conference [editorial] Belcher P, et al. **BMJ** 1997 Jun 7; 314(7095):1637–8
Equity, poverty and health for all. Calman KC. **BMJ** 1997 Apr 19;314(7088):1187–91
Alcohol policy in the Nordic countries [editorial; comment] Chenet L, et al. **BMJ** 1997 Apr 19;314(7088):1142–3. Comment on: BMJ 1997 Apr 19;314(7088):1164–8.
The BMJs question time [news] Dorrell S, et al. **BMJ** 1997 Apr 26;314(7089):1218–21
Barriers to evidence based policy [editorial] Florin D. **BMJ** 1996 Oct 12;313(7062):894–5
Effectiveness of the public health policy for breast cancer screening in Finland: population based cohort study [see comments] Hakama M, et al. **BMJ** 1997 Mar 22; 314(7084):864–7. Comment in: BMJ 1997 Jul 19;315(7101):190.
Child spacing and two child policy in practice in rural Vietnam: cross sectional survey. Hoa HT, et al. **BMJ** 1996 Nov 2;313(7065):1113–6
Liberal Democrats' health policy merited more detail [letter] Hughes S. **BMJ** 1996 Nov 23;313(7068):1335
Evaluating healthcare policies: the case of clinical audit. Lord J, et al. **BMJ** 1997 Sep 13;315(7109):668–71 (30 ref.)
Setting the agenda for health after the election [editorial] Macara AW. **BMJ** 1997 Mar 15;314(7083):767–8
Environment—a new key area for Health of the Nation? Walker A. **BMJ** 1996 Nov 9;313(7066):1197–9
Health for all by the year 2000. Much can still be done [letter; comment] [see comments] Walker AR, et al. **BMJ** 1996 Nov 23;313(7068):1331. Comment on: BMJ 1996 Aug 10;313(7053):316. Comment in: BMJ 1997 Feb 1;314(7077):375.
The effects of changing patterns in service provision on the management of cancer [editorial] [see comments] Nettel JP. **Br J Hosp Med** 1997 Feb 5–18;57(3):67–8. Comment in: Br J Hosp Med 1997 Feb 5–18;57(3):111.
Antenatal testing for HIV: to opt in or opt out, that is the question [letter; comment] MacDonagh SE, et al. **Br J Obstet Gynaecol** 1997 Jun;104(6):758. Comment on: Br J Obstet Gynaecol 1996 Nov;103(11):1059–60.
Second, let no harm be done: an American antiimmigration dilemma. d'Oronzio JC. **Camb Q Healthc Ethics** 1996 Summer;5(3):467–72
Seeking justice for Priscilla [see comments] Lantos J. **Camb Q Healthc Ethics** 1996 Fall;5(4):485–92. Comment in: Camb Q Healthc Ethics 1996 Fall;5(4):519–32.
Lobbying the lawmakers. The college and assisted death [editorial] Bereza E, et al. **Can Fam Physician** 1997 Feb; 43:191–3, 201–2 **(Eng, Fre)**
College to continue leading role [letter] Ferrier C. **Can Fam Physician** 1997 May;43:843
Reference–based pricing (RBP) of prescription drugs [letter; comment] Holbrook A, et al. **Can J Cardiol** 1997 Jul; 13(7):689–90. Comment on: Can J Cardiol 1997 Jan;13(1):31–2. Comment on: Can J Cardiol 1997 Jan;13(1):33–45.
NCIC perspective on cancer control. Beatty JD. **Can J Oncol** 1994 Nov;4 Suppl 1:2–3
Emerging and re–emerging communicable diseases [letter; comment] Corber S. **Can J Public Health** 1997 Mar–Apr; 88(2):137–8. Comment on: Can J Public Health 1996 Nov–Dec;87(6):365–7. Comment on: Can J Public Health 1996 Nov–Dec;87(6):368–72.
Action Statement for Health Promotion in Canada. Dafoe GH. **Can J Public Health** 1996 Jul–Aug;87(4):220 **(Eng, Fre)**
Putting the pieces together [editorial] Draper R. **Can J Public Health** 1995 Nov–Dec;86(6):365–7 **(Eng, Fre)**
Positioning dissemination in public health policy. MacLean DR. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S40–3
Spirometry utilization in Ontario: practice patterns and policy implications [see comments] Chan B, et al. **Can Med Assoc J** 1997 Jan 15;156(2):169–76. Comment in: Can Med Assoc J 1997 Jan 15;156(2):202–4.
The Krever inquiry: time to drop the appeals [editorial] [see comments] Hoey J. **Can Med Assoc J** 1997 May 15; 156(10):1401–2. Comment in: CMAJ 1997 Aug 1;157(3):245; discussion 246. Comment in: CMAJ 1997 Aug 1;157(3):245–6. Comment in: CMAJ 1997 Aug 1;157(3):246.
CMA conference to look at role research plays when critical policy decisions are being made. Wharry S. **Can Med Assoc J** 1997 Feb 1;156(3):428–9
Results of the National Cancer Advisory Board evaluation of the National Cancer Program. Calabresi P. **Cancer** 1996 Dec 15;78(12):2607–8
Catching up on sleep. The National Sleep Disorders Research Plan [editorial] Phillips BA, et al. **Chest** 1996 Nov; 110(5):1132–3
Reorienting intensive family preservation services in relation to public child welfare practice. Wells K, et al. **Child Welfare** 1996 Nov–Dec;75(6):667–92 (75 ref.)
Asthma programme in Finland 1994–2004. Report of a Working Group. Haahtela T, et al. **Clin Exp Allergy** 1996 Jan;26 Suppl 1:i–ii, 1–24
Medical workforce policy making in Canada: are we creating more problems for the future? Dauphinee WD. **Clin Invest Med** 1996 Aug;19(4):286–91
Rescuing Prometheus: a policy proposal to alleviate excess demand for liver transplantation. Ferguson ME, et al. **Clin Transplant** 1997 Feb;11(1):49–55
Tobacco and health care [letter; comment] Arkinstall WW. **CMAJ** 1997 Jul 15;157(2):133; discussion 133–4. Comment on: Can Med Assoc J 1997 Jan 15;156(2):240A–240F.
Furious about the forum [letter; comment] Smith D. **CMAJ** 1997 Jul 15;157(2):139. Comment on: Can Med Assoc J 1997 Apr 1;156(7):999–1000.
Core data set. Importance to health services research, outcomes research, and policy research. Uddin DE, et al. **Comput Nurs** 1997 Mar–Apr;15(2 Suppl):S38–42
Socio–economic status and membership of the British Diabetic Association in Scotland. Connolly V, et al. **Diabet Med** 1996 Oct;13(10):898–901
College on Problems of Drug Dependence Policy on Administering Drugs with Abuse Potential in Human Research [news] **Drug Alcohol Depend** 1996 Dec 2; 43(1–2):115–7
An evaluation of precaution–based approaches as EMF policy tools in community environments. Sahl J, et al. **Environ Health Perspect** 1996 Sep;104(9):908–11 (25 ref.)
The importance of service level measures for mental health policy. Jenkins R, et al. **Epidemiol Psichiatr Soc** 1997 Jan–Apr;6(1 Suppl):229–37
Are black Americans entitled to equal health care? a new research paradigm. Menefee LT. **Ethn Dis** 1996 Winter–Spring;6(1–2):56–68 (47 ref.)
AIDS turnaround: first remedy the adverse effects of the condom policy [letter] Gjorgov AN. **Eur J Cancer Prev** 1997 Feb;6(1):96–9
Hormone replacement and the menopause: a European position paper. Writing Group on Women's Health of the Fondazione Giovanni Lorenzini Medical Science Foundation. Crosignani PG, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jul;74(1):67–72 (81 ref.)
Childhood hunger. Lewit EM, et al. **Future Child** 1997 Spring;7(1):128–44 (23 ref.)
Individual susceptibility to inhaled pollutants—identification, mechanisms and public health policy implications. Jedrychowski W, et al. **G Ital Med Lav Ergon** 1996 Jan–May;18(1–3):63–72
The politics of the Health Insurance Portability and Accountability Act. Atchinson BK, et al. **Health Aff (Millwood)** 1997 May–Jun;16(3):146–50
State policy issues in nonprofit conversions. Butler PA. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):69–84 (38 ref.)
Public policy issues in nonprofit conversions: an overview. Claxton G, et al. **Health Aff (Millwood)** 1997 Mar–Apr; 16(2):9–28 (44 ref.)
An open letter to the president on quality [letter] Ellwood PM. **Health Aff (Millwood)** 1997 May–Jun;16(3):268–70
State health policy information: what worked? Feldman PH, et al. **Health Aff (Millwood)** 1997 Jan–Feb;16(1):207–10
Tracking health care costs. Ginsburg PB, et al. **Health Aff (Millwood)** 1996 Fall;15(3):140–9
Conversion of HMOs and hospitals: what's at stake? [see comments] Gray BH. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):29–47 (43 ref.). Comment in: Health Aff (Millwood) 1997 Jul–Aug;16(4):284–6.
Quality lessons for public policy: a health plan's view. Lawrence DM. **Health Aff (Millwood)** 1997 May–Jun; 16(3):72–6
Promoting quality: a public policy view. Wilensky GR. **Health Aff (Millwood)** 1997 May–Jun;16(3):77–81
The smoke–free university: anticipating health education needs of faculty and staff. Robinson L. **Health Educ Q** 1996 Feb;23(1):8–15
Establishing protective long term measures after severe nuclear accidents using multiple criteria. Papazoglou IA, et al. **Health Phys** 1997 May;72(5):676–90; appendix 690–2
"Medical effectiveness" in Canadian and U.S. health policy: the comparative politics of inferential ambiguity. Tanenbaum SJ. **Health Serv Res** 1996 Dec;31(5):517–32 (42 ref.)
Administrative and health policy training for residents. Bischof RO, et al. **Hosp Pract (Off Ed)** 1996 Aug 15; 31(8):93–4, 99–100 (17 ref.)
Health policy and third–generation oral contraceptives. Michaels MA, et al. **Hum Reprod** 1996 Apr;11(4):691–2 (10 ref.)
A paradigm shift—a new approach to the National Family Welfare Programme. Ghosh S. **Indian Pediatr** 1997 Jan; 34(1):41–6
Epidemiology of type II diabetes mellitus and ageing of the population: health policy implications and recommendations for epidemiological research. Casparie A. **Int J Epidemiol** 1991;20 Suppl 1:S25–9 (20 ref.)
Renewing the National Health Service: Labour's agenda for a healthier Britain. **Int J Health Serv** 1996;26(2):269–308 (0 ref.)
The politics of women's health: setting a global agenda. Doyal L. **Int J Health Serv** 1996;26(1):47–65 (73 ref.)
The development of community care policy for the elderly: a comparative perspective. Litwin H, et al.

Int J Health Serv 1996;26(4):691–708
Is unemployment pathogenic? A review of current concepts with lessons for policy planners. Shortt SE.
Int J Health Serv 1996;26(3):569–89 (115 ref.)
Rethinking the western construction of the welfare state. Walker A, et al. **Int J Health Serv** 1996;26(1):67–92 (69 ref.)
The Chinese equation in mental health policy and practice: order plus control equal stability. Pearson V.
Int J Law Psychiatry 1996 Summer–Fall;19(3–4):437–58 (58 ref.)
A balancing act. Mental health policy–making in Quebec. White D. **Int J Law Psychiatry** 1996 Summer–Fall; 19(3–4):289–307
Miracles take a little longer: project 2000 and the health–promoting nurse. Robinson S, et al.
Int J Nurs Stud 1995 Dec;32(6):568–79
Implementation of the WHO Global Strategy for Occupational Health for All. Plan of action: covering the specific period 1996–2001. Part I.
Int J Occup Med Environ Health 1997;10(2):113–39
Public perception of discharged psychiatric patients: a community survey. Reda S. **Int J Soc Psychiatry** 1996 Autumn;42(3):220–9
The public's role in the evaluation of health care technology. The conflict over ECT. Heitman E.
Int J Technol Assess Health Care 1996 Fall;12(4):657–72 (89 ref.)
Assessing the impact of health technology assessment. Jacob R, et al. **Int J Technol Assess Health Care** 1997 Winter; 13(1):68–80
Bioethics body needed [letter] Feenan D. **Ir Med J** 1996 Nov–Dec;89(6):234
Neurology and the new health care policies [editorial] Rosati G. **Ital J Neurol Sci** 1996 Apr;17(2):99–103
Science, politics, and AIDS prevention policy. Bayer R.
J Acquir Immune Defic Syndr Hum Retrovirol 1997;14 Suppl 2:S22–9 (20 ref.)
AIDS policy in Japan: integration within structured paternalism. Yonemoto S.
J Acquir Immune Defic Syndr Hum Retrovirol 1997;14 Suppl 2:S17–21 (1 ref.)
The relevance of health visiting policy to contemporary mothers. Machen I. **J Adv Nurs** 1996 Aug;24(2):350–6
Response to medicine and abortion issue [letter] Hoffman M, et al. **J Am Med Womens Assoc** 1996 Jan–Apr;51(1–2):9, 18
The duties of ethical committees applied to human reproduction [see comments] Eisenberg VH, et al.
J Assist Reprod Genet 1996 Oct;13(9):689–97. Comment in: J Assist Reprod Genet 1997 Jul;14(6):364–5.
Reproductive health care policies around the world. ART practice in Singapore. Ng SC, et al.
J Assist Reprod Genet 1996 Aug;13(7):527–35
Reproductive health care policies around the world. On basic and clinical research within the human assisted reproduction setting. Oehninger S, et al.
J Assist Reprod Genet 1997 Feb;14(2):69–72
Caring for depression in primary care: defining and illustrating the policy context. Wells KB.
J Clin Psychiatry 1997;58 Suppl 1:24–7 (12 ref.)
Playing jeopardy with public health: an old threat for a new century. Steppe AR. **J Community Health** 1996 Aug; 21(4):237–9
A tribute to the Health Law Journal. Giesen D.
J Contemp Health Law Policy 1997 Spring;13(2):461–9
Could we hold people responsible for their own adverse health? Harris J. **J Contemp Health Law Policy** 1995 Fall; 12(1):147–53
"Community" as the ideal for health care reform [comment] Aday LA, et al. **J Health Polit Policy Law** 1997 Feb; 22(1):231–43. Comment on: J Health Polit Policy Law 1997 Feb;22(1):105–45. Comment on: J Health Polit Policy Law 1997 Feb;22(1):147–84. Comment on: J Health Polit Policy Law 1997 Feb;22(1):185–221.
New federalism and intergovernmental fiscal relationships: the implications for health policy [see comments] Anton TJ. **J Health Polit Policy Law** 1997 Jun;22(3):691–720 (38 ref.). Comment in: J Health Polit Policy Law 1997 Jun;22(3):879–96. Comment in: J Health Polit Policy Law 1997 Jun;22(3):897–906.
The technocratic wish: making sense and finding power in the "managed" medical marketplace. Belkin GS.
J Health Polit Policy Law 1997 Apr;22(2):509–32 (63 ref.)
From "piety to platitudes to pork" to what? The changing politics of health workforce policy: a view from university–based academic health centers [comment] Bulger RJ. **J Health Polit Policy Law** 1996 Winter; 21(4):845–8; discussion 869–71. Comment on: J Health Polit Policy Law 1996 Winter;21(4):825–44.
Rural health network development: public policy issues and state initiatives. Casey MM, et al.
J Health Polit Policy Law 1997 Feb;22(1):23–47
Politics matters! Health care policy and the federal system [comment] Davidson SM. **J Health Polit Policy Law** 1997 Jun;22(3):879–96. Comment on: J Health Polit Policy Law 1997 Jun;22(3):691–720. Comment on: J Health Polit Policy Law 1997 Jun;22(3):721–88. Comment on: J Health Polit Policy Law 1997 Jun;22(3):789–814. Comment on: J Health Polit Policy Law 1997 Jun;22(3):815–38. Comment on: J Health Polit Policy Law 1997 Jun;22(3):839–78.
The normative constitution of professional power [see comments] Frankford DM. **J Health Polit Policy Law** 1997 Feb;22(1):185–221 (95 ref.). Comment in: J Health Polit Policy Law 1997 Feb;22(1):223–30. Comment in: J Health Polit Policy Law 1997 Feb;22(1):231–43.
Health care for all, health care for me: the personal nature of health workforce policy [comment] Howell JD.
J Health Polit Policy Law 1996 Winter;21(4):849–53; discussion 869–71. Comment on: J Health Polit Policy Law 1996 Winter;21(4):825–44.
Medicaid and the politics of groups: recipients, providers, and policy making [see comments] Kronebusch K.
J Health Polit Policy Law 1997 Jun;22(3):839–78 (54 ref.) . Comment in: J Health Polit Policy Law 1997 Jun;22(3):879–96. Comment in: J Health Polit Policy Law 1997 Jun;22(3):897–906.
Making sausage and making national health policy [comment] Laster L. **J Health Polit Policy Law** 1996 Winter; 21(4):863–8; discussion 869–71. Comment on: J Health Polit Policy Law 1996 Winter;21(4):825–44.
State health policy analysis: on the abuse of metaphor and the pathology of variation [comment] Leichter H.
J Health Polit Policy Law 1997 Jun;22(3):897–906. Comment on: J Health Polit Policy Law 1997 Jun;22(3):691–720. Comment on: J Health Polit Policy Law 1997 Jun;22(3):721–88. Comment on: J Health Polit Policy Law 1997 Jun;22(3):789–814. Comment on: J Health Polit Policy Law 1997 Jun;22(3):815–38. Comment on: J Health Polit Policy Law 1997 Jun;22(3):839–78.
Physician supply policy: a victim of politics in the era of pork [comment] Whitcomb ME.
J Health Polit Policy Law 1996 Winter;21(4):855–61; discussion 869–71. Comment on: J Health Polit Policy Law 1996 Winter;21(4):825–44.
The social determinants of the decline of life expectancy in Russia and eastern Europe: a lifestyle explanation. Cockerham WC. **J Health Soc Behav** 1997 Jun;38(2):117–30
Nordic contributions to disability policies. Kebbon L.
J Intellect Disabil Res 1997 Apr;41 (Pt 2):120–5
The impact of health policy on chiropractic. Mootz RD.
J Manipulative Physiol Ther 1996 May;19(4):257–64 (21 ref.)
Caring for Georgia's elderly: MAG's involvement. Thurman L, et al. **J Med Assoc Ga** 1997 Apr;86(2):138–43
Changing priorities in residential medical and social services. Greaves D. **J Med Ethics** 1997 Apr;23(2):77–81
Theoretical medicine: a proposal for reconceptualizing medicine as a science of actions. Lolas F.
J Med Philos 1996 Dec;21(6):659–70
A science for the art of consensus. Sackett DL.
J Natl Cancer Inst 1997 Jul 16;89(14):1003–5
National Cancer Policy Board hears pleas for priority at first public forum [news] Smigel K. **J Natl Cancer Inst** 1997 May 7;89(9):613–4
National Cancer Policy Board adds its voice to tobacco issues [news] Smigel K. **J Natl Cancer Inst** 1997 Aug 6; 89(15):1097–8
Sickle cell screening policies as portent: how will the human genome project affect public sector genetic services? Phoenix DD, et al. **J Natl Med Assoc** 1995 Nov; 87(11):807–12
Principles for a successful professional life. Lubic RW.
J Nurse Midwifery 1997 Jan–Feb;42(1):53–8
Interests and values in the Recommended Dietary Allowances and nutritional guidelines for Americans. Kunkel HO. **J Nutr** 1996 Sep;126(9 Suppl):2390S–2397S (47 ref.)
Teacher initiated improvement of asthma policy in schools. Hazell J, et al. **J Paediatr Child Health** 1995 Dec; 31(6):519–22
A thesis for our times [editorial] Roy DJ. **J Palliat Care** 1996 Spring;12(1):3–4
Outpatient liver biopsy in children: a medical position statement of the North American Society for Pediatric Gastroenterology and Nutrition. Fox VL, et al.
J Pediatr Gastroenterol Nutr 1996 Oct;23(3):213–6 (20 ref.)
Cultural competence: a critical factor in child health policy. Campinha–Bacote J. **J Pediatr Nurs** 1997 Aug;12(4):260–2
Policy and guidelines for prevention and management of human immunodeficiency virus and hepatitis B virus infection in the nursing education community. American Association of Colleges of Nursing. **J Prof Nurs** 1997 Sep–Oct;13(5):325–8
The gateclosing of the American health care system. Kjervik DK. **J Prof Nurs** 1996 Nov–Dec;12(6):337
Books on health policy and health reform: how is nursing represented? Mundt MH. **J Prof Nurs** 1997 Jan–Feb; 13(1):19–27 (47 ref.)
The state of the nation's oral health: mid–decade assessment of Healthy People 2000. Gift HC, et al.
J Public Health Dent 1996 Spring;56(2):84–91
Health care systems in transition: New Zealand. Part I: An overview of New Zealand's health care system. Ashton T. **J Public Health Med** 1996 Sep;18(3):269–73
Health care systems in transition: confronting new problems in changing circumstances. Beck EJ, et al.
J Public Health Med 1996 Sep;18(3):254–7
Health care systems in transition: The Netherlands. Part II: The response of the Dutch health care system to HIV–AIDS. Danner SA. **J Public Health Med** 1996 Sep; 18(3):285–8
Purchasing evidence: the corollary of evidence–based purchasing. Gray SF, et al. **J Public Health Med** 1997 Mar; 19(1):6–10
Health care systems in transition: People's Republic of China. Part I: An overview of China's health care system. Hillier S, et al. **J Public Health Med** 1996 Sep;18(3):258–65
Health care systems in transition: Brazil Part II: The current status of AIDS in Brazil. Santos BR, et al.
J Public Health Med 1996 Sep;18(3):296–300
Content analysis of coverage of alcohol control policy issues in black–oriented and mainstream newspapers in the U.S. Jones–Webb R, et al. **J Public Health Policy** 1997; 18(1):49–66
Setting the stage for health impact assessment. Ratner PA, et al. **J Public Health Policy** 1997;18(1):67–79 (26 ref.)
South Africa's new national drug policy [interview by Daphne Fresle] Zuma ND. **J Public Health Policy** 1997; 18(1):98–105
The effect of universal health insurance on health care utilization in Taiwan. Results from a natural experiment. Cheng SH, et al. **JAMA** 1997 Jul 9;278(2):89–93
Health of the public: the private–sector challenge [letter; comment] Lehman LB. **JAMA** 1996 Dec 25;276(24):1951; discussion 1951–2. Comment on: JAMA 1996 Oct 2;276(13):1071–4.
The Australian health care system. Are the incentives down under right side up? [see comments] [published erratum appears in JAMA 1997 Jul 9;278(2):118] Peabody JW, et al. **JAMA** 1996 Dec 25;276(24):1944–50. Comment in: JAMA 1996 Dec 25;276(24):1986–7. Comment in: JAMA 1997 Apr 23–30;277(16):1277–8.
East meets west to cure Russia's ills [news] Skolnick AA. **JAMA** 1997 Feb 26;277(8):613–4
Improving the links between research and health policy in Pakistan [editorial] Qazi SA, et al.
JPMA J Pak Med Assoc 1997 Feb;47(2):36–7
Spanish drug policy at the crossroads. Lopez Bastida J, et al. **Lancet** 1997 Sep 6;350(9079):679–80
The rise of western medicine in India [letter] Singh J, et al. **Lancet** 1996 Dec 7;348(9041):1598
Rugged individualism and compassion: the foundation of public policy. Plotnick J, et al.
MCN Am J Matern Child Nurs 1996 Jan–Feb;21(1):20–33
"Public health" for whose benefit? Multiple discourses on malaria in Sri Lanka. Silva KT. **Med Anthropol** 1997 May; 17(3):195–214
Patients and the public. Ali SW. **Med Educ** 1995;29 Suppl 1:38–40
Proposed breast cancer screening recommendations. Schepps B, et al. **Med Health R I** 1997 Jun;80(6):206–8
Making gains in health. Owen JW. **Med J Aust** 1997 Jun 16;166(12):650–3
Diabetes: the light at the end of the tunnel looks brighter [editorial] Zimmet P, et al. **Med J Aust** 1997 Jul 21; 167(2):65–6
Advocate development in the field of developmental disabilities: a data–based conceptual model. Balcazar FE, et al. **Ment Retard** 1996 Dec;34(6):341–51
Advocacy in disability policy: parents and consumers as advocates. Cunconan–Lahr R, et al. **Ment Retard** 1996 Dec; 34(6):352–8
MSMS, AMA take proactive stance. Advocate quality pain management techniques. Fox DK. **Mich Med** 1997 Jan; 96(1):26–7
Ambulatory mental health treatment under universal coverage: policy insights from Israel. Feinson MC, et al. **Milbank Q** 1997;75(2):235–60
Geographic disparities in Medicare reimbursement. Silversmith J. **Minn Med** 1997 Jun;80(6):45–51
Whither scientific deliberation in health policy recommendations? Alice in the Wonderland of breast–cancer screening. Fletcher SW. **N Engl J Med** 1997 Apr 17;336(16):1180–3
Economic reforms and child health in China [letter; comment] Peven DR. **N Engl J Med** 1997 Jan 16; 336(3):228; discussion 228–9. Comment on: N Engl J Med 1996 Aug 8;335(6):400–6.
Battling HIV on many fronts [editorial; comment] Steinbrook R. **N Engl J Med** 1997 Sep 11;337(11):779–81. Comment on: N Engl J Med 1997 Sep 11;337(11):725–33. Comment on: N Engl J Med 1997 Sep 11;337(11):734–9.
The MSNJ House of Delegates at work. **N J Med** 1996 Aug; 93(8):45–52
Official policy statement on HIV/AIDS. Medical Society of New Jersey. **N J Med** 1996 Aug;93(8):31–2
Drug testing of student athletes: a policy concern. Louria D. **N J Med** 1996 May;93(5):41–4
Building consensus in health care decision making. Sinding RV. **N J Med** 1996 Nov;93(11):63–5
Science and logic on trial [editorial] Slobodien HD.
N J Med 1997 Apr;94(4):17–8
Screening mammography for women ages 40 to 49 years. Timins JK. **N J Med** 1997 Apr;94(4):39–43
Interview with James S. Todd, MD [interview by Bill Berlin] Todd JS. **N J Med** 1996 Nov;93(11):21–3
Interview with Paul E. Wallner, DO [interview by Bill Berlin] Wallner PE. **N J Med** 1997 Aug;94(8):21–3
White House names AIDS policy director [news] **Nature** 1997 Feb 20;385(6618):671
Europe reshuffles its scientific committees following BSE crisis [news] Butler D. **Nature** 1997 Feb 20;385(6618):664
Forum on drug research with policy implications.
NIDA Res Monogr 1994;140:84–8
Inhalants: a policy analysis of the problem in the United

States. Harwood HJ. **NIDA Res Monogr** 1995;148:274–303 (20 ref.)
Improving meta-analysis for policy purposes. Hedges LV. **NIDA Res Monogr** 1997;170:202–15
Stages of nursing's political development: where we've been and where we ought to go. Cohen SS, et al. **Nurs Outlook** 1996 Nov–Dec;44(6):259–66 (64 ref.)
Meta-analysis and public policy: opportunity for nursing impact. Conn VS, et al. **Nurs Outlook** 1996 Nov–Dec; 44(6):267–71 (29 ref.)
Justifying nurse practitioner existence: hard facts to hard figures [see comments] Buppert CK. **Nurse Pract** 1995 Aug; 20(8):43–4, 46–8 (12 ref.). Comment in: Nurse Pract 1996 Jan;21(1):6. Comment in: Nurse Pract 1996 Jan;21(1):6, 9.
Strategies of the Pan American Health Organization/World Health Organization for the control of iron deficiency in Latin America. Freire WB. **Nutr Rev** 1997 Jun;55(6):183–8 (15 ref.)
Safeguarding patient records. King AB. **Nutrition** 1996 Oct; 12(10):726–7 (3 ref.)
AHCPR releases evidence report on colorectal cancer screening. **Oncology (Huntingt)** 1997 Mar;11(3):342–4
Role of allied health professionals in policy making and legislative actions. Sumaya CV. **P R Health Sci J** 1997 Mar;16(1):55–6
Individual interests, societal interests, and reproductive technologies. Baird P. **Perspect Biol Med** 1997 Spring; 40(3):440–51
Promoting worksite smoking control policies and actions: the Community Intervention Trial for Smoking Cessation (COMMIT) experience. The COMMIT Research Group. Glasgow RE, et al. **Prev Med** 1996 Mar–Apr;25(2):186–94
Agricultural policy and social returns to eradication programs: the case of Aujeszky's disease in Sweden. Andersson H, et al. **Prev Vet Med** 1997 Feb;29(4):311–28 (30 ref.)
Genetic variation in susceptibility as a key parameter in risk assessment and risk communication: policy aspects. Omenn GS. **Prog Clin Biol Res** 1996;395:235–47 (37 ref.)
"Brazil: a paradigm of many developing countries". Blay EA. **Promot Educ** 1995 Dec;2(4):25–8
Children are left out. Hartmann L. **Psychiatr Serv** 1997 Jul; 48(7):953–4
"Sylvia Frumkin" has a baby: a case study for policymakers. Nicholson J, et al. **Psychiatr Serv** 1996 May;47(5):497–501
A national physician workforce policy [comment] Noren J. **Public Health Rep** 1997 May–Jun;112(3):219–21. Comment on: Public Health Rep 1997 May–Jun;112(3):222–30. Comment on: Public Health Rep 1997 May–Jun;112(3):231–9.
Cytological screening for cervical cancer—what are its opportunity costs? [letter; comment] Fonn S. **S Afr Med J** 1997 May;87(5):619; discussion 619–20. Comment on: S Afr Med J 1996 Aug;86(8):935–6.
Organ transplantation—the other view [editorial] Kane-Berman J, et al. **S Afr Med J** 1997 Apr;87(4):422–3
Migration and health–the international perspective. Siem H. **Schweiz Rundsch Med Prax** 1997 May 7;86(19):788–93
Recent policy and technical developments in biological monitoring in the United Kingdom. Wilson HK. **Sci Total Environ** 1997 Jun 20;199(1–2):191–6 (13 ref.)
Evidence-based health policy—lessons from the Global Burden of Disease Study [see comments] Murray CJ, et al. **Science** 1996 Nov 1;274(5288):740–3. Comment in: Science 1996 Dec 6;274(5293):1593–4.
High-powered support for AIDS vaccine [news] Vogel G. **Science** 1997 Feb 21;275(5303):1055
Working from the inside out: implications of breast cancer activism for biomedical policies and practices. Anglin MK. **Soc Sci Med** 1997 May;44(9):1403–15
Policy issues in the private health sector: examples from long-term care in the U.K. Bartlett HP, et al. **Soc Sci Med** 1996 Sep;43(5):731–7 (37 ref.)
Responsibilities and rights in the promotion of health: differing positions of the individual and the state. Bell NK. **Soc Sci Med** 1996 Sep;43(5):775–82 (16 ref.)
Public health care provisions: access and equity. Bin Juni MH. **Soc Sci Med** 1996 Sep;43(5):759–68
Sectoral investment in health: prescription or principles? Cassels A, et al. **Soc Sci Med** 1997 Apr;44(7):1073–6
Translating research findings into health policy. Davis P, et al. **Soc Sci Med** 1996 Sep;43(5):865–72 (40 ref.)
Meanings in policy: a textual analysis of Canada's "Achieving Health For All" document. Iannantuono A, et al. **Soc Sci Med** 1997 Jun;44(11):1611–21 (46 ref.)
Women, health and the environment. Kettel B. **Soc Sci Med** 1996 May;42(10):1367–79 (47 ref.)
Women & health policy in developing countries. Puentes-Markides C. **Soc Sci Med** 1996 May;42(10):1345–9
Epidemiology and health policy—a world of difference? A case-study of a cholera outbreak in Kaputa district, Zambia. Van Bergen JE. **Soc Sci Med** 1996 Jul;43(1):93–9
Executive summary of "balancing security and opportunity: the challenge of disability income policy". **Soc Secur Bull** 1996 Spring;59(1):79–84
HIV and AIDS: can we develop a common framework for analysis and action? [editorial] Lamboray JL. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):207–9
Lessons from the Dutch abortion experience. David HP, et al. **Stud Fam Plann** 1996 Nov–Dec;27(6):341–3
Incentives, population policy, and reproductive rights: ethical issues. Isaacs SL. **Stud Fam Plann** 1995 Nov–Dec; 26(6):363–7
Comparison of national policies on periconceptional use of folic acid to prevent spina bifida and anencephaly (SBA). Cornel MC, et al. **Teratology** 1997 Feb;55(2):134–7
Regulations and policies on radioiodine 131I therapy in Europe. Beckers C. **Thyroid** 1997 Apr;7(2):221–4 (9 ref.)
BSE: compensation and reporting [letter] Broberg JO. **Vet Rec** 1996 Jun 8;138(23):575
BSE and rabies policies: science or sophistry? [letter] Done J. **Vet Rec** 1996 Aug 10;139(6):148
Alcohol and the workplace. Henderson M, et al. **WHO Reg Publ Eur Ser** 1996;67:1–100 (233 ref.)
Alcohol and the media. Montonen M. **WHO Reg Publ Eur Ser** 1996;62:1–165 (289 ref.)
The role of nurses and midwives in government. Ralph C, et al. **WHO Reg Publ Eur Ser** 1997;74:167–90 (9 ref.)
Policy implications of the Human Genome Project for women. Cassel CK. **Womens Health Issues** 1997 Jul–Aug; 7(4):225–9 (10 ref.)
HIV testing: the evolution of a policy [editorial] Schwarz RH, et al. **Womens Health Issues** 1996 Mar–Apr; 6(2):109–11
Ethics and human values in health policy. Bankowski Z. **World Health Forum** 1996;17(2):146–9
Safe air in the workplace? Chinni A, et al. **World Health Forum** 1997;18(1):39–40
Renewal of the health-for-all strategy. Yach D. **World Health Forum** 1996;17(4):321–6; discussion 327–49
[Detail and suppressed wholeness] Riis P. **Nord Med** 1996 Feb;111(2):55 **(Dan)**
[A silent revolution. Towards a balanced tuning of informal and formal care] Knipscheer CP. **Tijdschr Gerontol Geriatr** 1996 Aug;27(4):138–40 **(Dut)**
[Prevention of disabilities and physical rehabilitation of leprosy] Smith WC. **Acta Leprol** 1996;10(2):85–8 (Eng. Abstr.) **(Fre)**
[Introduction: new health structures for better care] Legrain M. **Bull Acad Natl Med** 1997 May;181(5):815–8 **(Fre)**
[The role of agencies in the development of health policy] Tabuteau DR. **Bull Acad Natl Med** 1997 May; 181(5):819–31; discussion 832–3 (Eng. Abstr.) **(Fre)**
[Susceptible populations and urban atmospheric pollution. Development of a policy of protection] Voisin C. **Bull Acad Natl Med** 1997 Mar 18;181(3):499–509; discussion 509–23 (Eng. Abstr.) **(Fre)**
[The 1996 National Health Conference (editorial)] Ménard J. **Rev Epidemiol Sante Publique** 1997 Mar;45(1):1–2 **(Fre)**
[Cardiology and heart surgery in the dawn of the 21st century. The viewpoint of policy makers] Delamuraz JP. **Rev Med Suisse Romande** 1997 Aug;117(8):623–5 **(Fre)**
[Regional health care administration following the Netaniahu Commission] Scharf S. **Harefuah** 1997 May 1;132(9):676–7 **(Heb)**
[New order of the Italian health system and the contractual management of its business and health facilities. 2: Professional requirements for assuming and discharging the positions or duties of management directors] Alati E, et al. **Ann Ig** 1997 May–Jun;9(3):249–60 **(Ita)**
[Our policy and future tasks related to ICH in anti-cancer drug development—a discussion from the viewpoint of an enterprise] Ekimoto H. **Gan To Kagaku Ryoho** 1997 Jan; 24(2):229–37 (Eng. Abstr.) **(Jpn)**
[The contribution of policy sciences to public health research] Arai H, et al. **Nippon Koshu Eisei Zasshi** 1996 Jul; 43(7):517–9 **(Jpn)**
[The AIDS-statement of the Health Services on HIV infections among Africans (letter; comment)] Alvik A, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2607–8. Comment on: Tidsskr Nor Laegeforen 1996 Aug 30;116(20):2495–6. **(Nor)**
[National and regional functions. What does the National Health Council's scientific committee mean by highly specialized medicine?] Faye-Lund H, et al. **Tidsskr Nor Laegeforen** 1997 Jan 20;117(2):255–7 **(Nor)**
[No, there is no magic grip] Frisvold OJ. **Tidsskr Nor Laegeforen** 1997 May 20;117(13):1941–2 **(Nor)**
[High dose therapy with autologous stem cell support in malignant disorders. Excerpt from the statement by the advisory group of the State Health Services] Holte H, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2577–81 (Eng. Abstr.) **(Nor)**
[Crisis of academic medicine] Hørven I. **Tidsskr Nor Laegeforen** 1997 Apr 30;117(11):1639 **(Nor)**
[A wave of uprising and sharpened profile or the unions] Jensen P. **Tidsskr Nor Laegeforen** 1996 Sep 20; 116(22):2652–3 **(Nor)**
[Little on ethics and liberal health policy] Laake JH. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2511 **(Nor)**
[From plan to chaos? Norwegian health care through 50 turbulent years] Nordby T. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2508–10 **(Nor)**
[Searching for alternatives (editorial)] Nylenna M. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2431 **(Nor)**
[High-dose therapy with stem cell support and support by a cabinet minister] Nylenna M, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2537–9 **(Nor)**
[An alternative to current waiting list guarantee] Rasmussen K, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10;117(15):2210–3 **(Nor)**
[Medico-social policy as an integral part of the strategy of present-day public health development in Russia] Pogorelov IaD, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):41–3 (Eng. Abstr.) **(Rus)**
[The regional characteristics of the health of the population and policy in the public health field] Poliakov IV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Jan–Feb;(1):24–6 (Eng. Abstr.) **(Rus)**
[The Nation's health as a social mechanism of society's stable well-being] Razumov AN. **Vestn Ross Akad Med Nauk** 1997;(4):15–8 (Eng. Abstr.) **(Rus)**
[Public health and national security (editorial)] Alleyne G. **Bol Oficina Sanit Panam** 1996 May;120(5):369–77 **(Spa)**
[Academic responsibility for public policy on health] Firpo-Betancourt A. **P R Health Sci J** 1997 Mar; 16(1):57–62 **(Spa)**
[More freedom among Norwegian health personnel. Organizational shortage result in more efficient care] Belfrage P. **Lakartidningen** 1997 Aug 27;94(35):2899–900 **(Swe)**
[A popular vote in California: don't change health services] Bergström L. **Lakartidningen** 1996 Nov 20;93(47):4228 **(Swe)**
[Johan Calltorp on the health care crisis: politicians are at loss—a good occasion for the physicians to take initiative! (Interview)] Calltorp J. **Lakartidningen** 1997 May 28; 94(22):2054–6 **(Swe)**
[Dilemma II of a general practitioner. From health care agreement to medical fees] Carlsson B. **Lakartidningen** 1996 Dec 4;93(49):4512; 4515 **(Swe)**
[Does the Medical Society want us physicians, to revolt? (letter)] Fischer J. **Lakartidningen** 1997 Feb 5;94(6):412 **(Swe)**
[Local agreements in health care are based on programs for mental illness. They stimulate measurements of quality and results] Gerle M, et al. **Lakartidningen** 1997 Mar 26; 94(13):1188 **(Swe)**
[Bad economics result in increased administration (letter)] Hammarkvist B. **Lakartidningen** 1997 Aug 27;94(35):2907–8 **(Swe)**
[Lack of knowledge about waiting lists in health care. Reformed care guarantee could have the answers] Hjelmqvist B. **Lakartidningen** 1997 Jul 9;94(28–29):2525–6 **(Swe)**
[Extend the care guarantee—don't eliminate it!] Hjelmqvist B. **Lakartidningen** 1996 Dec 18;93(51–52):4707–8 **(Swe)**
[An executive without mandate] Järhult B, et al. **Lakartidningen** 1997 Jan 29;94(5):309–10 **(Swe)**
[Afterbirth of an article in the journal DN...] Järhult B, et al. **Lakartidningen** 1997 Mar 19;94(12):1043 **(Swe)**
[County councils may be maintained if the customer's role is refined] Johansson B. **Lakartidningen** 1996 Dec 11; 93(50):4608–9 **(Swe)**
[Future structure of the Medical Society. Members must have the opportunity to influence the society's policy] Johnson K. **Lakartidningen** 1997 May 28;94(22):2053 **(Swe)**
[The market forces in health care can not be left without control (letter)] Jonson T. **Lakartidningen** 1997 Jan 22; 94(4):220 **(Swe)**
[The problematic role of physicians during the time of health care crisis] Kesek M. **Lakartidningen** 1997 Aug 20; 94(34):2799–801 **(Swe)**
[Turnover ten-doubled during two years. The rapid expansion of the Bure company within health care is going on] Lennholm B. **Lakartidningen** 1996 Oct 30;93(44):3867–9 **(Swe)**
[The central committee of the Medical Society: Sweden needs all its physicians!] Leth R. **Lakartidningen** 1997 Feb 12;94(7):493–4 **(Swe)**
[A party that wants to save health care (letter)] Liljenberg J, et al. **Lakartidningen** 1997 Apr 2;94(14):1264 **(Swe)**
[The first international conference. Health priorities—a problem without simple answers] Lind J. **Lakartidningen** 1996 Oct 23;93(43):3748–9 **(Swe)**
["We are no longer able to take the medical responsibility!" (letter)] Lindgren T. **Lakartidningen** 1996 Oct 9;93(41):3550 **(Swe)**
[Ingenious feedback system benefits recovery (letter)] Löfqvist A. **Lakartidningen** 1997 Apr 9;94(15):1363 **(Swe)**
[The Christmas gospel according to Milton: empty arguments on productivity] Malmgren H, et al. **Lakartidningen** 1997 Jan 29;94(5):307–8 **(Swe)**
[Do we still need county councils? An administrative apparatus which outlived its day] Nordlander NB. **Lakartidningen** 1996 Sep 25;93(39):3339–40 **(Swe)**
[A health care politician must do a lot of priorities (letter)] Olsson AM. **Lakartidningen** 1997 Apr 2;94(14):1260–1 **(Swe)**
[Directions on quality systems concentrate on the responsibility of care providers] Orn P. **Lakartidningen** 1997 Feb 19;94(8):587 **(Swe)**
[Neuroleptics, drug benefits and cost savings (letter)] Pedersen K, et al. **Lakartidningen** 1996 Dec 18; 93(51–52):4711 **(Swe)**
[Guidelines for economic evaluation of drugs. Something for Sweden?] Persson U. **Lakartidningen** 1997 Jun 11; 94(24):2289–92 (28 ref.) **(Swe)**
[The megaphone of power? (letter)] Schött F. **Lakartidningen** 1997 May 21;94(21):1970–1 **(Swe)**
[The health care system—is the current situation best?

(letter)] Schött F. **Lakartidningen** 1996 Dec 18; 93(51–52):4710 **(Swe)**

[For better and cheaper health care. Health care based on primary health care services is good for Sweden] Sjönell G. **Lakartidningen** 1997 Apr 23;94(17):1574, 1579–81 **(Swe)**

[New dividing lines and new ways of thinking in health care. Increased economic steering may result in increased costs!] Spangsberg L. **Lakartidningen** 1997 Jan 22;94(4):211 **(Swe)**

[Medicine needs critical reflections! (letter)] Stolt CM, et al. **Lakartidningen** 1997 May 14;94(20):1868 **(Swe)**

[Medical students are caught in a treadmill. Nothing helps—as long as health services are beaten] Wilhelmson B. **Lakartidningen** 1996 Dec 4;93(49):4508–10 **(Swe)**

ECONOMICS

Prospects for outcomes research in radiology and health policy. McNeil BJ. **Acad Radiol** 1996 Apr;3 Suppl 1:S19–20

Prevention, policy, and paradox: what is the value of future health? Ganiats TG. **Am J Prev Med** 1997 Jan–Feb; 13(1):12–7

Quantitative policy analysis and public health policy: a macro and micro view. Hinman AR. **Am J Prev Med** 1997 Jan–Feb;13(1):6–11

Lipid-lowering for prevention of coronary heart disease: what policy now? [published erratum appears in Clin Sci (Colch) 1996 Dec;91(6):773–4] [see comments] Ul Haq I, et al. **Clin Sci (Colch)** 1996 Oct;91(4):399–413. Comment in: Clin Sci (Colch) 1997 Apr;92(4):431–2.

The effects of economic conditions and access to reproductive health services on state abortion rates and birthrates. Matthews S, et al. **Fam Plann Perspect** 1997 Mar–Apr;29(2):52–60

Incremental approaches to covering uninsured children: design and policy issues. Thorpe KE. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):64–78

The state of neoliberalism in South Africa: economic, social, and health transformation in question. Bond P, et al. **Int J Health Serv** 1997;27(1):25–40

Market commodities and poor relief: the world bank proposal for health. Laurell AC, et al. **Int J Health Serv** 1996; 26(1):1–18 (42 ref.)

Economic boundaries of health policy: factors influencing 1993–1994 reform proposals. Nayeri K. **Int J Health Serv** 1996;26(4):709–30

Discounting the future: influence of the economic model [see comments] West RR. **J Epidemiol Community Health** 1996 Jun;50(3):239–44 (27 ref.). Comment in: J Epidemiol Community Health 1997 Jun;51(3):339–40.

What does economics have to say about health policy anyway? A comment and correction on Evans and Rice [comment] Gaynor M, et al. **J Health Polit Policy Law** 1997 Apr;22(2):475–96; discussion 497–508 (8 ref.). Comment on: J Health Polit Policy Law 1997 Apr;22(2):383–426. Comment on: J Health Polit Policy Law 1997 Apr;22(2):427–65.

The costs of drug abuse consequences: a summary of research findings. French MT, et al. **J Subst Abuse Treat** 1996 Nov–Dec;13(6):453–66 (56 ref.)

Incremental strategies for providing health insurance for the uninsured. Projected federal costs and number of newly insured. Thorpe KE. **JAMA** 1997 Jul 23–30;278(4):329–33

A method to elicit utilities for interpersonal comparisons. Holmes AM. **Med Decis Making** 1997 Jan–Mar;17(1):10–20

The importance of perspective in the measurement of quality-adjusted life years. Richardson J, et al. **Med Decis Making** 1997 Jan–Mar;17(1):33–41

Trends in health care coverage and financing and their implications for policy. Markham Smith B. **N Engl J Med** 1997 Oct 2;337(14):1000–3

Can we afford medical savings accounts? Keeler LL. **N J Med** 1996 Nov;93(11):67–8

Quality of care and cost-containment in managed mental health: policy, education, research, advocacy. Dana RH, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1395–422 (125 ref.)

SMA Lecture. Impact of a free market system on medicine in Singapore. Singapore Medical Association. Toh C. **Singapore Med J** 1997 Jan;38(1):7–10

Economic evaluation in support of national health policy: the case of The Netherlands. Elsinga E, et al. **Soc Sci Med** 1997 Aug;45(4):605–20

Australian economic evaluation and government decisions on pharmaceuticals, compared to assessment of other health technologies. Hailey D. **Soc Sci Med** 1997 Aug; 45(4):563–81

Health care: a social contract in transition. Hill TP. **Soc Sci Med** 1996 Sep;43(5):783–9 (23 ref.)

Economic reform and health sector policy: lessons from structural adjustment programs. Peabody JW. **Soc Sci Med** 1996 Sep;43(5):823–35 (58 ref.)

Making economic evaluations respectable. Reinhardt UE. **Soc Sci Med** 1997 Aug;45(4):555–62

Loosening up antitrust. Jones TL. **Tex Med** 1996 Dec; 92(12):36–7; quiz 37–9

[Economics and health policy: the example of hepatitis C viruses (editorial)] Pol S, et al. **Gastroenterol Clin Biol** 1996; 20(12):1049–52 **(Fre)**

[Substitution possibilities in ambulatory surgery] Brenner G. **Chirurg** 1997 Jan;68(1):Suppl 10–5 **(Ger)**

[Significance of evidence-based decisions for health policy] Pientka L. **Med Klin** 1996 Aug 15;91(8):541–6 (83 ref.) **(Ger)**

HISTORY

25th Anniversary of the Signing of the National Cancer Act, December 23, 1971. Introduction. Henson DE. **Cancer** 1996 Dec 15;78(12):2582–3

The Japanese mental health system and law: social and structural impediments to reform. Mandiberg JM. **Int J Law Psychiatry** 1996 Summer–Fall;19(3–4):413–35 (61 ref.)

The role of health in New York State under the governorship of Hugh Carey. Cahill KM. **J Community Health** 1996 Feb; 21(1):1–9

From piety to platitudes to pork: the changing politics of health workforce policy [see comments] Fox DM. **J Health Polit Policy Law** 1996 Winter;21(4):825–44. Comment in: J Health Polit Policy Law 1996 Winter;21(4):845–8. Comment in: J Health Polit Policy Law 1996 Winter;21(4):849–53; discussion 869–71. Comment in: J Health Polit Policy Law 1996 Winter;21(4):855–61; discussion 869–71. Comment in: J Health Polit Policy Law 1996 Winter;21(4):863–8; discussion 869–71.

America's ecumenical health policy: a century of consensus. Fox DM. **Mt Sinai J Med** 1997 Mar;64(2):72–4

Community participation in health care: the Turkish case. Tatar M. **Soc Sci Med** 1996 Jun;42(11):1493–500

Drug use and drug policy in Hong Kong: changing patterns and new challenges. Cheung YW, et al. **Subst Use Misuse** 1996 Sep–Oct;31(11–12):1573–97

[History of the public health policy in Chad 1900–1995] Massenet D. **Med Trop (Mars)** 1996;56(4):404–9 (Eng. Abstr.) **(Fre)**

[Interpretation of the teachings of Endre Högyes in the light of today's health policy] Berentey G. **Orv Hetil** 1997 Apr 13;138(15):915–22 (Eng. Abstr.) **(Hun)**

[Public health and public wealth: social costs as a basis for restrictive policies. 1980. (classical article)] Courtwright DT. **Salud Publica Mex** 1996 Jul–Aug;38(4):294–304 **(Spa)**

LEGISLATION & JURISPRUDENCE

The 105th Congress and health care. Fuchs BC, et al. **Acad Med** 1996 Dec;71(12):1334–5

The analysis of policy: understanding the process of policy development. Ryder D. **Addiction** 1996 Sep;91(9):1265–70

Explorations in a proposed national policy for children and families. Chung WS, et al. **Adolescence** 1997 Summer; 32(126):429–36

White House releases first-ever national AIDS strategy [news] **Am Fam Physician** 1997 Feb 1;55(2):412

The fraud and abuse statute in an evolving health care marketplace: life in the health care speakeasy. Blumstein JF. **Am J Law Med** 1996;22(2–3):205–31 (0 ref.)

A public policy agenda for academic medicine. Knapp RM. **Am J Surg** 1997 Jan;173(1):65–8; discussion 69

EU Parliament more interested in cancer programs [news] **Ann Oncol** 1996 Apr;7(4):327

Prearraignment forensic evaluations: toward a new policy. Ornish SA, et al. **Bull Am Acad Psychiatry Law** 1996; 24(4):453–70

Should prisons ease drug prohibition to help reduce disease spread? Kent H. **Can Med Assoc J** 1996 Nov 15; 155(10):1489–91

The provision of services for rural youth with serious emotional and behavioral problems: Virginia's Comprehensive Services Act. Sheldon-Keller AE, et al. **Community Ment Health J** 1996 Oct;32(5):481–95

Statement on national drug policy. College on problems of drug dependence. **Drug Alcohol Depend** 1997 Jul 25; 47(1):63–71

The changing face of aging politics. Hudson RB. **Gerontologist** 1996 Feb;36(1):33–5

Making sausage: The Ninth Circuit's opinion. Schneider CE. **Hastings Cent Rep** 1997 Jan–Feb;27(1):27–8

Corporate political strategy: incorporating the management of public policy issues into hospital strategy. Bigelow B, et al. **Health Care Manage Rev** 1997 Summer;22(3):53–63

Effects of the Stanford Five-City Project Media Advocacy Program. Schooler C, et al. **Health Educ Q** 1996 Aug; 23(3):346–64

Media advocacy: a strategy for advancing policy and promoting health. Wallack L, et al. **Health Educ Q** 1996 Aug;23(3):293–317

Policymakers. Walk a mile in my scrubs. Montague J. **Hosp Health Netw** 1996 Nov 5;70(21):58, 60

Image problems. Science, fear and the politics of mammograms. Speer TL. **Hosp Health Netw** 1997 Jun 5; 71(11):36, 38

Tobacco control and the AMA: health, policy and politics. Houston TP. **Indiana Med** 1996 Mar–Apr;89(2):129–31

Trends of public opinion on tobacco use and public policy. Torabi MR. **Indiana Med** 1996 Mar–Apr;89(2):132–5

The impact of policy standardization on the Medigap market. Rice T, et al. **Inquiry** 1997 Summer;34(2):106–16

The corporate assault on the Food and Drug Administration. Nixon R. **Int J Health Serv** 1996;26(3):561–8 (18 ref.)

Implementing state-level mental health policy reforms in Indiana: closing a state-operated psychiatric hospital and passing major mental health reform legislation. McDonel EC, et al. **Int J Law Psychiatry** 1996 Summer–Fall; 19(3–4):239–64

Mental health reform and inclusion of the mentally ill: dilemmas of U.S. policy-making. Rochefort DA. **Int J Law Psychiatry** 1996 Summer–Fall;19(3–4):223–37 (40 ref.)

Consumers and health policy development: confessions of a guarded optimist. Kushner C. **Int J Qual Health Care** 1996 Oct;8(5):479–84

Medical savings accounts: health system savior or insurance scam? Rabinowitz HK. **J Am Board Fam Pract** 1997 Jan–Feb;10(1):50–4

Treatment decisions for patients without surrogates: rethinking policies for a vulnerable population [see comments] Miller TE, et al. **J Am Geriatr Soc** 1997 Mar; 45(3):369–74 (35 ref.). Comment in: J Am Geriatr Soc 1997 Mar;45(3):375–7.

Reform and reaction in Australian health policy. Gray G. **J Health Polit Policy Law** 1996 Fall;21(3):587–615

A citizens' AIDS Task Force: overcoming obstacles. Aiken JH. **J Homosex** 1997;32(3–4):145–67

The problem with making AIDS comfortable: federal policy making and the rhetoric of innocence. Donovan MC. **J Homosex** 1997;32(3–4):115–44

The social construction of target populations and the transformation of prison-based AIDS policy: a descriptive case study. Hogan NL. **J Homosex** 1997;32(3–4):77–114

HIV and AIDS in Africa. African policies in response to AIDS in relation to various national legal traditions. Alkas PH, et al. **J Leg Med** 1996 Dec;17(4):527–46

Ambiguities and irresolvable tensions in the ADA: a reply to Loretta M. Kopelman and Anita Silvers [comment] Cutter MA. **J Med Philos** 1996 Apr;21(2):225–35. Comment on: J Med Philos 1996 Apr;21(2):187–208. Comment on: J Med Philos 1996 Apr;21(2):209–24.

Moral consensus in public ethics: patient autonomy and family decision-making in the work of one state bioethics commission. Moskowitz EH. **J Med Philos** 1996 Apr; 21(2):149–68

Government and bureaucratic bioethics: addressing moral issues in the service of ideology. Spicker SF. **J Med Philos** 1996 Apr;21(2):113–9

The legislative structuring of insanity acquittee policies. Linhorst DM. **J Ment Health Adm** 1997 Spring; 24(2):166–77

Maternity length of stay and public policy: issues and implications. Ferguson SL, et al. **J Pediatr Nurs** 1996 Dec; 11(6):392–4

Welfare reform: will it break the cycle of dependency? Velsor-Friedrich B. **J Pediatr Nurs** 1997 Feb;12(1):55–6

What happened to wine consumption in Iowa following elimination of its retail wine monopoly? [letter; comment] Mulford HA, et al. **J Stud Alcohol** 1996 Sep;57(5):572–5 . Comment on: J Stud Alcohol 1993 Mar;54(2):251–3.

The scientific process works: seven replications now show significant wine sales increases after privatization [letter; comment] Wagenaar AC, et al. **J Stud Alcohol** 1996 Sep; 57(5):575–6. Comment on: J Stud Alcohol 1993 Mar;54(2):251–3.

Voters and health care in the 1996 election. Blendon RJ, et al. **JAMA** 1997 Apr 16;277(15):1253–8

Law and medicine. Gostin LO. **JAMA** 1997 Jun 18; 277(23):1866–7

Managed care regulation: in the laboratory of the states. Miller TE. **JAMA** 1997 Oct 1;278(13):1102–9

Understanding the state variation in Medicare home health care. The impact of Medicaid program characteristics, state policy, and provider attributes. Cohen MA, et al. **Med Care** 1997 Jun;35(6):618–33

The effect of certificate of need and moratoria policy on change in nursing home beds in the United States. Harrington C, et al. **Med Care** 1997 Jun;35(6):574–88

Representative Joseph Palamara. Medicaid managed care tops House Health Policy Committee agenda. Sewall J. **Mich Med** 1997 May;96(5):12–3

The politics of "Drive-through deliveries": putting early postpartum discharge on the legislative agenda. Declercq E, et al. **Milbank Q** 1997;75(2):175–202 (69 ref.)

MMA sets policy at 143rd annual meeting [news] **Minn Med** 1996 Nov;79(11):33, 35

Public health is high on MMA legislative agenda. Christensen RG. **Minn Med** 1997 Mar;80(3):34

Health issues, the president and the 105th Congress. Iglehart JK. **N Engl J Med** 1997 Feb 27;336(9):671–5

Person of the year: Commissioner Len Fishman [interview by Bill Berlin] Fishman L. **N J Med** 1996 Dec;93(12):23–8

Needle exchange programs receive APA endorsement [news] **Psychiatr Serv** 1996 Nov;47(11):1282

Organ transplantation policy—for whom does the bell toll? [editorial] van der Walt SL, et al. **S Afr Med J** 1997 Apr; 87(4):420–1

PAC is not a four letter word—nor is survival [editorial] Barlow JF. **S D J Med** 1996 May;49(5):147

New legislation in Turkey [letter] Emri S. **Tob Control** 1997 Spring;6(1):61

Political realities of statewide smoking legislation: the passage of California's Assembly Bill 13. Macdonald HR, et al. **Tob Control** 1997 Spring;6(1):41–54

Bill gives hope that Turkey can fly [news] Simpson D. **Tob Control** 1997 Spring;6(1):10–1

1996: the year voters rejected the Marlboro Man [news] Wilbur P, et al. **Tob Control** 1997 Spring;6(1):11–3

FTC and Justice Department issue new policy statements. Feller H, et al. **Va Med Q** 1996 Fall;123(4):232–5

[Comments on the 2nd GKV revised regulation and immediate program application at the 4 December 1996

hearing] **Gesundheitswesen** 1997 Mar;59(3):186–90 **(Ger)**
[Transitions in public health from the legal perspective] Borchert G. **Gesundheitswesen** 1997 Apr;59(4):223–5 (Eng. Abstr.) **(Ger)**
[Changes in the spectrum of the health provision contract and their effects on education, graduate education, research, quality of treatment and continuing development of surgery] Encke A.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:663–6 (Eng. Abstr.) **(Ger)**
[Medical rehabilitation between politics and demographic development--consequences for quality management in rehabilitation clinics] Weber A. **Rehabilitation (Stuttg)** 1997 May;36(2):92–5 (Eng. Abstr.) **(Ger)**
[Quality in public health. Deficits, concepts and political quality key issues from the ministerial viewpoint] Ruprecht TM. **Z Arztl Fortbild Qualitatssich** 1997 Feb;91(1):75–81 (Eng. Abstr.) **(Ger)**
[New order of the Italian health system and the contractual management of health business and facilities. 1–New legislation for the national health service, the state employees, the central organizations of the health administration and the training of medical and paramedical personnel] Alati E, et al. **Ann Ig** 1997 Mar–Apr;9(2):177–90 **(Ita)**
[Essential conditions for local public health policy making] Mizushima S, et al. **Nippon Koshu Eisei Zasshi** 1997 Feb; 44(2):77–80 **(Jpn)**

TRENDS

Confronting a rising tide of eating disorders and obesity: treatment vs. prevention and policy. Battle EK, et al.
Addict Behav 1996 Nov–Dec;21(6):755–65 (45 ref.)
Harm reduction: come as you are. Marlatt GA.
Addict Behav 1996 Nov–Dec;21(6):779–88 (18 ref.)
Health care policy, psychotherapy research, and the future of psychotherapy. Barlow DH. **Am Psychol** 1996 Oct; 51(10):1050–8
Influence of behavioral and social science on public health policymaking. Holtgrave DR, et al. **Am Psychol** 1997 Feb; 52(2):167–73
An urgent need to include blood substitute as a priority area in any national policies on blood supply [editorial] Chang TM. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):vii–ix
Hepatitis C and policy implementation: ethics as a dialogic process for resource allocation [editorial] Hepworth J, et al. **Aust N Z J Public Health** 1997 Feb;21(1):4–7
The Health of the Nation [editorial] Calman K.
Br J Hosp Med 1996 Aug 21–Sep 3;56(4):125–6
Community psychiatry: central policy, local implementation [editorial] O'Grady JC. **Br J Psychiatry** 1996 Sep; 169(3):259–62
African American children in the modern child welfare system: a legacy of the Flemming Rule. Lawrence-Webb C. **Child Welfare** 1997 Jan–Feb;76(1):9–30 (45 ref.)
Hong Kong reverts to Chinese rule but won't introduce China's strict birth-control policies. Brooks JR. **CMAJ** 1997 Jul 15;157(2):183–5
Home health on the high wire. In the search for Medicare savings, politicians sidestep important structural questions. Meyer H. **Hosp Health Netw** 1997 Jul 20;71(14):26–9
From states of confusion to a national action plan for dementia care: the development of policies for dementia care in Australia. Howe AL. **Int J Geriatr Psychiatry** 1997 Feb;12(2):165–71
Coping with the New World of health care [comment] Zimet CN. **Int J Group Psychother** 1997 Jan;47(1):17–21. Comment on: Int J Group Psychother 1997 Jan;47(1):3–16.
Attempts to decentralize in recent Brazilian health policy: issues and problems, 1988–1994. Araújo Júnior JL.
Int J Health Serv 1997;27(1):109–24
The ghost of health services past: comparing British health policy of the 1930s with the 1980s and 1990s. Powell MA.
Int J Health Serv 1996;26(2):253–68 (80 ref.)
The future of health care in six European countries: the views of policy elites. Taylor-Gooby P. **Int J Health Serv** 1996; 26(2):203–19
Give me discipline and give me death: neoliberalism and health in Chile. Trumper R, et al. **Int J Health Serv** 1997; 27(1):41–55
The impact of the commissioning agenda upon nursing practice: a proactive approach to influencing health policy. Antrobus S, et al. **J Adv Nurs** 1997 Feb;25(2):309–15
Interrelationships of food, nutrition, diet and health: the National Association of State Universities and Land Grant Colleges White Paper. Bidlack WR. **J Am Coll Nutr** 1996 Oct;15(5):422–33 (52 ref.)
Laboratories and the health care marketplace: the limits of state workforce policy [see comments] Sparer MS.
J Health Polit Policy Law 1997 Jun;22(3):789–814 (39 ref.). Comment in: J Health Polit Policy Law 1997 Jun;22(3):879–96. Comment in: J Health Polit Policy Law 1997 Jun;22(3):897–906.
Federal health policy directions. Young WB.
J Nurs Adm 1997 Jun;27(6):14–5
Beset by buzzwords [editorial] McIntyre RV.
J Okla State Med Assoc 1996 May;89(5):161
International developments in health policy: forces driving change. Riordan SM, et al. **J R Coll Physicians Lond** 1996 Nov–Dec;30(6):579–81
Substance abuse treatment and HIV services: Massachusetts' policies and programs. McCarty D, et al.
J Subst Abuse Treat 1996 Sep–Oct;13(5):429–38; discussion 439
Digging beneath the surface of Michigan health plans. Ford MA. **Mich Med** 1996 Apr;95(4):30–2
Medical necessity in Canadian health policy: four meanings and ... a funeral? Charles C, et al. **Milbank Q** 1997; 75(3):365–94 (93 ref.)
Community integration of former state hospital patients: outcomes of a policy shift in Vermont. Dewees M, et al. **Psychiatr Serv** 1996 Oct;47(10):1088–92
An unruly mélange? Coordinating external resources to the health sector: a review. Buse K, et al. **Soc Sci Med** 1997 Aug;45(3):449–63 (100 ref.)
[Report of the activity of ANDEM and outlook] Matillon Y. **Bull Acad Natl Med** 1997 May;181(5):841–52 (Eng. Abstr.) **(Fre)**
[Retrospect--prospects] Hempel K, et al. **Chirurg** 1997 Jan; 68(1):Suppl 1–2 **(Ger)**
[Status of the management of addicted patients--results of an expert survey as the basis for health policy decisions] Fleischmann H, et al. **Gesundheitswesen** 1996 Oct; 58(10):538–42 (Eng. Abstr.) **(Ger)**
[Periconceptional multivitamin administration result in reduction of congenital abnormalities: adequate evidence for formulating national recommendations for Germany?] Hort A, et al. **Gesundheitswesen** 1997 Apr;59(4):248–51 (20 ref.) (Eng. Abstr.) **(Ger)**
[Public health as a cross sectional responsibility. Results of a study of the Munich city administration] Hüttner B.
Gesundheitswesen 1997 Feb;59(2):102–8 (Eng. Abstr.) **(Ger)**
[Health promotion in Germany 10 years after the Ottawa Charter--exemplified by prevention of smoking] Luber E.
Gesundheitswesen 1997 Jun;59(6):387–90 (Eng. Abstr.) **(Ger)**
[Status and perspectives of quality assurance in socialized medical services] Ollenschläger G, et al.
Z Arztl Fortbild Qualitatssich 1997 Feb;91(1):59–67 (34 ref.) (Eng. Abstr.) **(Ger)**
[Medical practice in our time (editorial)] Roncoroni AJ.
Medicina (B Aires) 1996;56(2):201–3 **(Spa)**
[Medical subspecialities and health policies: Health Ministry view] Carabantes J. **Rev Med Chil** 1996 Apr;124(4):501–4 (Eng. Abstr.) **(Spa)**
[Health care reform in Chile] Massad C. **Rev Med Chil** 1996 Jul;124(7):880–6 (Eng. Abstr.) **(Spa)**

HEALTH PRIORITIES

Economic euthanasia. Wynen A. **Acta Gastroenterol Belg** 1997 Apr–Jun;60(2):166–7
Some priorities in maximizing access to and quality of contraceptive services. Shelton JD, et al.
Adv Contracept 1996 Sep;12(3):233–7 (10 ref.)
Reinventing public health. Lee P, et al.
Annu Rev Public Health 1997;18:1–35 (121 ref.)
Women's health: consumer views for planning local health promotion and health care priorities. Brown WJ, et al.
Aust N Z J Public Health 1996 Apr;20(2):149–54
Consulting about priorities for the NHMRC National Breast Cancer Centre: how good is the nominal group technique. Redman S, et al. **Aust N Z J Public Health** 1997 Jun; 21(3):250–6
42nd annual Louis H. Bauer Lecture. New challenges in prevention. Hinman AR. **Aviat Space Environ Med** 1996 Sep;67(9):890–5
Health priorities for the European intergovernmental conference [editorial] Belcher P, et al. **BMJ** 1997 Jun 7; 314(7095):1637–8
Equity, poverty and health for all. Calman KC. **BMJ** 1997 Apr 19;314(7088):1187–91
Health targets in the NHS: lessons learned from experience with breast feeding targets in Scotland [see comments] Campbell H, et al. **BMJ** 1997 Apr 5;314(7086):1030–3. Comment in: BMJ 1997 Aug 2;315(7103):313.
Are the Health of the Nation's targets attainable? Postal survey of general practitioner's views. Cheung P, et al. **BMJ** 1997 Apr 26;314(7089):1250–1
Setting priorities New Zealand-style [editorial; comment] Dixon J, et al. **BMJ** 1997 Jan 11;314(7074):86–7. Comment on: BMJ 1997 Jan 11;314(7074):131–4. Comment on: BMJ 1997 Jan 11;314(7074):135–8.
Wales is set 20 health targets [news] Dobson R. **BMJ** 1997 Jun 21;314(7097):1785
New Zealand priority criteria project. Project has potential to improve patient care, but only with injection of funds [letter] Elliott J, et al. **BMJ** 1997 Apr 12;314(7087):1131
The New Zealand priority criteria project. Part 1: Overview [see comments] Hadorn DC, et al. **BMJ** 1997 Jan 11; 314(7074):131–4. Comment in: BMJ 1997 Jan 11;314(7074):86–7. Comment in: BMJ 1997 Apr 12;314(7087):1130–1.
The New Zealand priority criteria project. Part 2: Coronary artery bypass graft surgery [see comments] Hadorn DC, et al. **BMJ** 1997 Jan 11;314(7074):135–8. Comment in: BMJ 1997 Jan 11;314(7074):86–7. Comment in: BMJ 1997 Apr 12;314(7087):1130–1.
US sets new priorities for liver transplants [news] Josefson D. **BMJ** 1996 Nov 30;313(7069):1350
New Zealand priority criteria project. More use should be made of patient oriented quality of life measures [letter; comment] Mordue A, et al. **BMJ** 1997 Apr 12; 314(7087):1130–1. Comment on: BMJ 1997 Jan 11;314(7074):131–4. Comment on: BMJ 1997 Jan 11;314(7074):135–8.
New Zealand priority criteria project. More use should be made of patient oriented quality of life measures [letter] Mordue A, et al. **BMJ** 1997 Jun 14;314(7096):1765
A framework for priority setting [letter; comment] Scott A, et al. **BMJ** 1997 Mar 29;314(7085):980. Comment on: BMJ 1996 Dec 14;313(7071):1499.
Poverty to have priority in NHS [news] Warden J. **BMJ** 1997 Jun 21;314(7097):1781
Determining priorities for change in primary care: the value of practice-based needs assessment. Ruta DA, et al.
Br J Gen Pract 1997 Jun;47(419):353–7
Caring for the elderly: problems and priorities. Banerjee AK.
Br J Hosp Med 1996 Aug 21–Sep 3;56(4):159–61 (17 ref.)
Psychiatry and the Health of the Nation: the view from the Department of Health. Jenkins R. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):155–8 (26 ref.)
Promoting the Health of the Nation. Langlands A.
Br J Hosp Med 1996 Aug 21–Sep 3;56(4):171–2
Priorities in medical research [editorial] Swales JD.
Br J Hosp Med 1996 Aug 21–Sep 3;56(4):127–8
Declaration of the Americas on diabetes [see comments]
Bull Pan Am Health Organ 1996 Sep;30(3):263–5. Comment in: Bull Pan Am Health Organ 1996 Sep;30(3):261–2.
Diabetes--a declaration for the Americas [editorial; comment] Alleyne G. **Bull Pan Am Health Organ** 1996 Sep;30(3):261–2. Comment on: Bull Pan Am Health Organ 1996 Sep;30(3):263–5.
Renewing the commitment to achieve health for all in the Americas. Puentes-Markides C.
Bull Pan Am Health Organ 1996 Mar;30(1):80–2
Euthanasia and physician-assisted suicide. The wrong issues in the care of dying people [editorial] Latimer EJ.
Can Fam Physician 1997 Feb;43:189–91, 198–200 **(Eng, Fre)**
Creating a research agenda with relevance to cancer nursing practice. Fitch MI. **Cancer Nurs** 1996 Oct;19(5):335–42
Can patients set their own educational priorities? Colagiuri R, et al. **Diabetes Res Clin Pract** 1995 Nov;30(2):131–6
Priorities for endocrine disruptor research [news]
Environ Health Perspect 1997 Apr;105(4):372
Children and the environment [news]
Environ Health Perspect 1997 Apr;105(4):370–1
Needs and methods for priority setting for estimating the intake of food additives. Renwick AG.
Food Addit Contam 1996 May–Jun;13(4):467–75 (11 ref.)
The goals of medicine. Setting new priorities.
Hastings Cent Rep 1996 Nov–Dec;26(6):S1–27
An economic approach to clinical trial design and research priority-setting. Claxton K, et al. **Health Econ** 1996 Nov–Dec;5(6):513–24
Intergenerational equity: an exploration of the 'fair innings' argument. Williams A. **Health Econ** 1997 Mar–Apr; 6(2):117–32 (28 ref.)
Presidential Address. India's health scenario–few issues and challenges. Dutta PK. **Indian J Public Health** 1996 Jul–Sep; 40(3):58–61
Preventive dentistry--a priority in Sri Lanka. Saparamadu KD. **Int Dent J** 1996 Apr;46(2):97–102
Renewing the National Health Service: Labour's agenda for a healthier Britain. **Int J Health Serv** 1996;26(2):269–308 (0 ref.)
Priority setting for health technology assessment. Theoretical considerations and practical approaches. Priority setting Subgroup of the EUR-ASSESS Project. Henshall C, et al. **Int J Technol Assess Health Care** 1997 Spring; 13(2):144–85 (43 ref.)
"Great transitions, preparing adolescents for a new century". A commentary on the health component of the concluding report of the Carnegie Council on Adolescent Development. Cohen MI. **J Adolesc Health** 1996 Jul; 19(1):2–5
Determinants of health of North-American adolescents: evolving definitions, recent findings, and proposed research agenda. Raphael D. **J Adolesc Health** 1996 Jul;19(1):6–16 (97 ref.)
Clarifying the concept of need: a comparison of two approaches to concept analysis. Endacott R.
J Adv Nurs 1997 Mar;25(3):471–6
The challenge of osteoporosis [editorial] Smith JP.
J Adv Nurs 1996 Nov;24(5):885
Progress in prevention [editorial; comment] Robinson BE.
J Am Geriatr Soc 1996 Nov;44(11):1399. Comment on: J Am Geriatr Soc 1996 Nov;44(11):1394–8.
Managed care--issues and opportunities: a view from the CDC. Holman PB, et al. **J Am Med Womens Assoc** 1997 Spring;52(2):85–8
Setting health priorities: community boards accurately reflect the preferences of the community's residents. Conway T, et al. **J Community Health** 1997 Feb;22(1):57–68
The role of research in setting priorities for health care. Lohr KN. **J Eval Clin Pract** 1996 Feb;2(1):79–82 (5 ref.)
Human immunodeficiency virus infection and other sexually transmitted diseases in developing countries: public health importance and priorities for resource allocation. Over M, et al. **J Infect Dis** 1996 Oct;174 Suppl 2:S162–75
Changing priorities in residential medical and social services. Greaves D. **J Med Ethics** 1997 Apr;23(2):77–81
Setting priorities in the Spanish health care system. Quintana

O, et al. **J Med Philos** 1995 Dec;20(6):595–606
Ministers discuss Middle East priorities [news] **J Natl Cancer Inst** 1997 Jun 4;89(11):761
Research priorities for nurses caring for persons with multiple sclerosis. Nursing Research Speciality Group of the Consortium of Multiple Sclerosis Centers. Gulick EE. **J Neurosci Nurs** 1996 Oct;28(5):314–21
Nutrition in pediatric HIV infection: setting the research agenda. Work group session report: priorities, recommendations, and strategies for supporting the research agenda. Hamilton F. **J Nutr** 1996 Oct;126(10 Suppl):2688S–2690S
Research priorities for the nursing of children and their families: a Delphi study. Broome ME, et al. **J Pediatr Nurs** 1996 Oct;11(5):281–7
New players for a new era: responding to the global public health challenges. Kickbusch I. **J Public Health Med** 1997 Jun;19(2):171–8
Setting health care priorities in Pakistan. Khan KS. **JPMA J Pak Med Assoc** 1995 Aug;45(8):222–7
The Hobart Salt Study 1995: few meet national sodium intake target [see comments] Beard TC, et al. **Med J Aust** 1997 Apr 21;166(8):404–7. Comment in: Med J Aust 1997 Apr 21;166(8):396–7.
Psychosocial disorders in young people: on the agenda but not on the mend. Eckersley R. **Med J Aust** 1997 Apr 21; 166(8):423–4 (23 ref.)
Rationing and the objectives of health care [editorial] Mooney GH. **Med J Aust** 1997 Jun 2;166(11):575
Research on physical activity and disability: an emerging national priority. Rimmer JH, et al. **Med Sci Sports Exerc** 1996 Nov;28(11):1366–72
Cancer incidence and mortality: the priority of screening frequency and population coverage. Colditz GA, et al. **Milbank Q** 1997;75(2):147–73 (50 ref.)
Prevention of asthma as a public health priority [editorial] Peat JK, et al. **Monaldi Arch Chest Dis** 1995 Dec; 50(6):423–6
Priorities for AIDS research set out by US task force [news] **Nature** 1996 Dec 19–26;384(6610):606
'Skewed medical goals' revealed by Indian survey [news] Jayaraman KS. **Nature** 1997 Jul 31;388(6641):410
Research priorities in occupational medicine: a survey of United Kingdom personnel managers. Harrington JM, et al. **Occup Environ Med** 1996 Sep;53(9):642–4
Priorities in occupational health research: a Delphi study in The Netherlands. van der Beek AJ, et al. **Occup Environ Med** 1997 Jul;54(7):504–10
Nutrition policy: priorities for new research. Gibney MJ. **Proc Nutr Soc** 1996 Jul;55(2):661–9 (14 ref.)
Attitudes to cuts in expenditure and increased fees in health care. Myllykangas M, et al. **Public Health** 1997 Mar; 111(2):71–5
Healthy People 2000: meshing national and local health objectives. Sondik E. **Public Health Rep** 1996 Nov–Dec; 111(6):518–20
Year 2000 health status indicators: a profile of California. Sutocky JW, et al. **Public Health Rep** 1996 Nov–Dec; 111(6):521–6
Cytological screening for cervical cancer—what are its opportunity costs? [letter; comment] Bloch B, et al. **S Afr Med J** 1997 May;87(5):615; discussion 615, 618. Comment on: S Afr Med J 1996 Aug;86(8):935–6.
Cytological screening for cervical cancer—what are its opportunity costs? [letter; comment] Hoffman M. **S Afr Med J** 1997 May;87(5):614–5; discussion 615, 618. Comment on: S Afr Med J 1996 Aug;86(8):935–6.
Cytological screening for cervical cancer—what are its opportunity costs? [editorial] [see comments] McCoy D, et al. **S Afr Med J** 1996 Aug;86(8):935–6. Comment in: S Afr Med J 1997 May;87(5):614–5; discussion 615, 618. Comment in: S Afr Med J 1997 May;87(5):615; discussion 615, 618. Comment in: S Afr Med J 1997 May;87(5):618–9; discussion 619–20. Comment in: S Afr Med J 1997 May;87(5):619; discussion 619–20. Comment in: S Afr Med J 1997 May;87(5):620. Comment in: S Afr Med J 1997 May;87(5):620–2.
Cytological screening for cervical cancer—what are its opportunity costs? [letter; comment] van Bogaert LJ, et al. **S Afr Med J** 1997 May;87(5):618–9; discussion 619–20 . Comment on: S Afr Med J 1996 Aug;86(8):935–6.
Feasibility of universal screening for cervical cancer in rural South Africa [letter; comment] Wilkinson D. **S Afr Med J** 1997 May;87(5):620. Comment on: S Afr Med J 1996 Aug;86(8):935–6.
Health sector co-operation in southern Africa—priorities for action [editorial] Wolvaardt G, et al. **S Afr Med J** 1997 May;87(5):587–90
Priorities in perinatal care—consensus statements [letter] Woods DL. **S Afr Med J** 1997 Jan;87(1):73
Meanings in policy: a textual analysis of Canada's "Achieving Health For All" document. Iannantuono A, et al. **Soc Sci Med** 1997 Jun;44(11):1611–21 (46 ref.)
QALYS and ethics: a health economist's perspective. Williams A. **Soc Sci Med** 1996 Dec;43(12):1795–804 (42 ref.)
Funding priorities for a struggling world: ours and theirs [letter] [see comments] Elkins TE, et al. **Womens Health Issues** 1996 Mar–Apr;6(2):115. Comment in: Womens Health Issues 1996 Sep–Oct;6(5):307.
[Is a realistic discussion on prioritization in health care possible?] Holm S. **Nord Med** 1996 Dec;111(10):362 **(Dan)**
[The return of trypanosomiasis: a new challenge from a forgotten disease (editorial) (see comments)] Ancelle T. **Med Trop (Mars)** 1996;56(4):347–8. Comment in: Med Trop (Mars) 1997;57(1):102–4. **(Fre)**
["Stockholm open" in prioritization] Aasland OG, et al. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3372–3 **(Nor)**
[Continuing education of hospital physicians should be prioritized!] Aasved G. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2482–4 **(Nor)**
[Can we afford good health services? Can prioritization solve the problems?] Christie W. **Tidsskr Nor Laegeforen** 1997 Jun 10;117(15):2155 **(Nor)**
[No, there is no magic grip] Frisvold OJ. **Tidsskr Nor Laegeforen** 1997 May 20;117(13):1941–2 **(Nor)**
[Internship during continuing education should be prioritized] Gerner T, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2500–1 **(Nor)**
[High dose therapy with autologous stem cell support in malignant disorders. Excerpt from the statement by the advisory group of the State Health Services] Holte H, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2577–81 (Eng. Abstr.) **(Nor)**
[Criteria for waiting list guarantee. An attempt at precision] Kristoffersen M, et al. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):358–61 (Eng. Abstr.) **(Nor)**
[Waiting lists guarantee in health care. Some theoretical reflections] Piene H, et al. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):370–4 (Eng. Abstr.) **(Nor)**
[An alternative to current waiting list guarantee] Rasmussen K, et al. **Tidsskr Nor Laegeforen** 1997 Jun 10;117(15):2210–3 **(Nor)**
[A global challenge in the debate on priorities] Seim AR, et al. **Tidsskr Nor Laegeforen** 1997 Jan 10;117(1):38–42 (Eng. Abstr.) **(Nor)**
[The control of the health problems associated with drug consumption in Spain: towards a scientific and prioritized approach (editorial)] de la Fuente Hoz L, et al. **Gac Sanit** 1996 Nov–Dec;10(57):255–60 **(Spa)**
[The concept of prioritization conflicts with the "art of medicine" (letter)] Canivet C. **Lakartidningen** 1997 Jan 22; 94(4):219 **(Swe)**
[Health care is for the patient (letter)] Flou T. **Lakartidningen** 1997 Feb 5;94(6):412 **(Swe)**
[Cloning, biobanks, multicultural meetings, medical turism....Medical ethics confronted with new challenges] Hermerén G. **Lakartidningen** 1997 Aug 6;94(32–33):2701–7 (47 ref.) **(Swe)**
[Extend the care guarantee—don't eliminate it!] Hjelmqvist B. **Lakartidningen** 1996 Dec 18;93(51–52):4707–8 **(Swe)**
[An executive without mandate] Järhult B, et al. **Lakartidningen** 1997 Jan 29;94(5):309–10 **(Swe)**
[A governmental proposal: prioritization should be based on basic ethical principles] Johnson K. **Lakartidningen** 1997 Jan 8;94(1–2):6 **(Swe)**
[The prioritization committee misses the target. The report forces the costs!] Karlberg I. **Lakartidningen** 1996 Nov 20; 93(47):4301, 4304 **(Swe)**
[Dfferent priorities in ambulance transportation. High competence is necessary for everybody] Karlsten R, et al. **Lakartidningen** 1997 May 14;94(20):1920–1 **(Swe)**
["Beneficial to shake up the system from time to time". The Norwegian prioritization is updated after 10 years] Lind J. **Lakartidningen** 1996 Nov 20;93(47):4227–8 **(Swe)**
[The first international conference. Health priorities—a problem without simple answers] Lind J. **Lakartidningen** 1996 Oct 23;93(43):3748–9 **(Swe)**
[The Christmas gospel according to Milton: empty arguments on productivity] Malmgren H, et al. **Lakartidningen** 1997 Jan 29;94(5):307–8 **(Swe)**
[A reply: reduced resources may be used in a better way!] Milton A. **Lakartidningen** 1997 Jan 29;94(5):315 **(Swe)**
[A health care politician must do a lot of priorities (letter)] Olsson AM. **Lakartidningen** 1997 Apr 2;94(14):1260–1 **(Swe)**
[A reply to the prioritizatation debate. Solidarity is the target but is it radical?] Ottosson JO. **Lakartidningen** 1996 Sep 25;93(39):3380–1 **(Swe)**
[A thin soup in the priority debate (letter)] Rosén P. **Lakartidningen** 1996 Oct 23;93(43):3768–9 **(Swe)**
[Prioritization—a conflict between different interests. An empirical study of priority-decision in health care] Sandell R, et al. **Lakartidningen** 1997 Mar 12;94(11):981–5 **(Swe)**
[Stolt vs Evans—a clinician meets a health economist. How much is the cost of dying?] Stolt CM. **Lakartidningen** 1997 Sep 10;94(37):3121–4 **(Swe)**
[Confusing priority investigation. More distinct definitions and better facts are necessary] Williams A. **Lakartidningen** 1996 Sep 25;93(39):3376–9 **(Swe)**
[1st international conference on prioritization in health care] Oldinger E. **Nord Med** 1996 Dec;111(10):361 **(Swe)**

ECONOMICS

Using willingness to pay to value close substitutes: carrier screening for cystic fibrosis revisited. Donaldson C, et al. **Health Econ** 1997 Mar–Apr;6(2):145–59
A method to elicit utilities for interpersonal comparisons. Holmes AM. **Med Decis Making** 1997 Jan–Mar;17(1):10–20
Lessons for U.S. managed care from the British National Health Service, II: Setting priorities. Sabin JE, et al. **Psychiatr Serv** 1997 Apr;48(4):469–70, 482

STATISTICS & NUMERICAL DATA

Who should decide? Qualitative analysis of panel data from public, patients, healthcare professionals, and insurers on priorities in health care. Stronks K, et al. **BMJ** 1997 Jul 12;315(7100):92–6
Problems and priorities of plastic surgical waiting list initiative schemes: an audit. Rao GS, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):128–30

TRENDS

Research in the Veterans Health Administration: new paradigm or changing priorities? Feussner JR. **Acad Med** 1996 Oct;71(10):1072–3
Prioritizing performance measures for geriatric medical services: what do the purchasers and providers think? Roberts H, et al. **Age Ageing** 1996 Jul;25(4):326–8
Revolutions and counterrevolutions in prevention [comment] Albee GW. **Am Psychol** 1996 Nov;51(11):1130–3. Comment on: Am Psychol 1996 Nov;51(11):1109–15. Comment on: Am Psychol 1996 Nov;51(11):1116–22. Comment on: Am Psychol 1996 Nov;51(11):1123–7.
The Health of the Nation [editorial] Calman K. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):125–6
Focus on health [editorial] Martin S. **Can J Public Health** 1996 Jan–Feb;87(1):6–9
Health status of newcomers. Matuk LC. **Can J Public Health** 1996 Jan–Feb;87(1):52–5
Contraception in the United States: an overview and priorities for improvement. Stewart FH. **Obstet Gynecol Surv** 1996 Dec;51(12 Suppl):S4–7
[The priority directions for the scientific support of a federal targeted program in the development of a child nutrition industry] Lipatov NN. **Vopr Pitan** 1996;(5):18–22 **(Rus)**

HEALTH PROFESSIONS see **HEALTH OCCUPATIONS**

HEALTH PROMOTION

see related
HEALTH BEHAVIOR

Can individually directed interventions reduce population-level alcohol-involved problems? [editorial] Holder HD. **Addiction** 1997 Jan;92(1):5–7
Interventions into alcohol problems: what works? Smart RG, et al. **Addiction** 1997 Jan;92(1):9–13
Reproductive health awareness: an integrated approach to obtaining a high quality of health. Marshall M, et al. **Adv Contracept** 1997 Jun–Sep;13(2–3):313–8 (0 ref.)
Moderating binge drinking: it is possible to change behaviour if you plan it in advance. Murgraff V, et al. **Alcohol Alcohol** 1996 Nov;31(6):577–82
Gun safety education [letter; comment] Bryant-Bruce C. **Am Fam Physician** 1997 Mar;55(4):1078. Comment on: Am Fam Physician 1996 Sep 1;54(3):971–5, 977–8.
Gun safety education [letter; comment] Johnstone A. **Am Fam Physician** 1997 Mar;55(4):1074, 1077. Comment on: Am Fam Physician 1996 Sep 1;54(3):971–5, 977–8.
Gun safety education [letter; comment] Simon FA Jr. **Am Fam Physician** 1997 Mar;55(4):1077–8. Comment on: Am Fam Physician 1996 Sep 1;54(3):971–5, 977–8.
Psychosocial barriers to health promotion in an American Indian population. Lightdale JR, et al. **Am Indian Alsk Native Ment Health Res** 1997;7(3):34–49
Outcome of trauma patients after brief intervention by a substance abuse consultation service. Greber RA, et al. **Am J Addict** 1997 Winter;6(1):38–47
Demonstrating nursing's value in community health. Dahl R. **Am J Nurs** 1997 Feb;97(2):72
How to provide better care for the postmenopausal woman [see comments] Scura KW, et al. **Am J Nurs** 1997 Apr; 97(4):36–43 (9 ref.). Comment in: Am J Nurs 1997 May;97(5):16.
Clinical interpretation of "occupational therapy students' perspectives on occupation as an agent that promotes healthful lifestyles" [comment] Bloomer J. **Am J Occup Ther** 1996 Nov–Dec;50(10):842–3. Comment on: Am J Occup Ther 1996 Nov–Dec;50(10):835–41.
Occupational therapy students' perspectives on occupation as an agent that promotes healthful lifestyles [see comments] Dermody JL, et al. **Am J Occup Ther** 1996 Nov–Dec;50(10):835–41. Comment in: Am J Occup Ther 1996 Nov–Dec;50(10):842–3.
Ergonomics in health care. Hanson CS. **Am J Occup Ther** 1997 Sep;51(8):701–3
Conference report: community-based health promotion—state of the art and recommendations for the future. Cheadle A, et al. **Am J Prev Med** 1997 Jul–Aug; 13(4):240–3
Health behaviors and health promotion/disease prevention perceptions of medical students. Delnevo CD, et al. **Am J Prev Med** 1996 Jan–Feb;12(1):38–43
Longitudinal effects of preventive services on health behaviors among an elderly cohort. Elder JP, et al. **Am J Prev Med** 1995 Nov–Dec;11(6):354–9
Effects of a health promotion program on sustaining health behaviors in older adults. Fox PJ, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):257–64
Activating patients to practice skin cancer prevention: response to mailed materials from physicians versus HMOs. Gerbert B, et al. **Am J Prev Med** 1997 May–Jun; 13(3):214–20

Community health promotion: applying the science of evaluation to the initial sprint of a marathon [comment] Green LW. **Am J Prev Med** 1997 Jul–Aug;13(4):225–8. Comment on: Am J Prev Med 1997 Jul–Aug;13(4):229–39.

Community action for health promotion: a review of methods and outcomes 1990–1995 [see comments] Hancock L, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):229–39. Comment in: Am J Prev Med 1997 Jul–Aug;13(4):225–8.

The University of Virginia health promotion and disease prevention program. Hornsby PP, et al. **Am J Prev Med** 1997 Jan–Feb;13(1):36–44

Public health as a county government priority: problems and solutions for the political arena. Marando VL, et al. **Am J Prev Med** 1995 Nov–Dec;11(6 Suppl):17–23

Effect of training and a structured office practice on physician–delivered nutrition counseling: the Worcester–Area Trial for Counseling in Hyperlipidemia (WATCH). Ockene IS, et al. **Am J Prev Med** 1996 Jul–Aug;12(4):252–8

Promoting physical activity in women: the new challenges. Pinto BM, et al. **Am J Prev Med** 1996 Sep–Oct; 12(5):395–400 (61 ref.)

Health promotion and disease prevention in integrated delivery systems: the role of market forces. Rundall TG, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):244–50

Correlates of health promotion behaviors in low–income Black women and Latinas. Sanders–Phillips K. **Am J Prev Med** 1996 Nov–Dec;12(6):450–8

Health promotion practices among physicians. Yeager KK, et al. **Am J Prev Med** 1996 Jul–Aug;12(4):238–41

Policy research for disease prevention: challenges and practical recommendations. Brownson RC, et al. **Am J Public Health** 1997 May;87(5):735–9

Assessing mothers' attitudes about the physician's role in child health promotion. Cheng TL, et al. **Am J Public Health** 1996 Dec;86(12):1809–12

The "Di.S.Co." project: a community–based comprehensive control project of chronic diseases. Time change in intervention strategy. The "Di.S.Co." Research Group. Angelico F, et al. **Ann Ig** 1997 Mar–Apr;9(2):101–10

Health promotion attitudes, practices and obstacles of Italian physicians with their patients. Nicolosi A, et al. **Ann Ig** 1996 Nov–Dec;8(6):601–9

School–based programs for health–risk reduction. Nicklas TA, et al. **Ann N Y Acad Sci** 1997 May 28;817:208–24 (37 ref.)

Declaration of Olympia on Nutrition and Fitness. May 28–29, 1996, Ancient Olympia, Greece. **Ann Nutr Metab** 1996; 40(6):312–4

Health promotion and disease prevention in the worksite. Lusk SL. **Annu Rev Nurs Res** 1997;15:187–213 (94 ref.)

Conformity with nature: a theory of Chinese American elders' health promotion and illness prevention processes. Chen YL. **ANS Adv Nurs Sci** 1996 Dec;19(2):17–26

Advancing discourse on health promotion: beyond mainstream thinking. Kulbok PA, et al. **ANS Adv Nurs Sci** 1997 Sep;20(1):12–20

Ways of knowing about health: an aboriginal perspective. Turton CL. **ANS Adv Nurs Sci** 1997 Mar;19(3):28–36

Our children have bright futures, but they need our help to achieve their potential [editorial] Giordano BP. **AORN J** 1996 Oct;64(4):514

A mandate for physician activism in the war against tobacco. Barnes MM. **Arch Fam Med** 1997 May–Jun;6(3):215–7

Prevention advice rates of women and men physicians. Frank E, et al. **Arch Fam Med** 1996 Apr;5(4):215–9

Women's health: consumer views for planning local health promotion and health care priorities. Brown WJ, et al. **Aust N Z J Public Health** 1996 Apr;20(2):149–54

Educational and environmental interventions for cardiovascular health promotion in socially disadvantaged primary schools. Gore CJ, et al. **Aust N Z J Public Health** 1996 Apr;20(2):188–94

Menopause and healthy aging: a pilot project. McVeigh C. **Aust N Z J Public Health** 1996 Feb;20(1):95–6

General practitioners' promotion of healthy life styles: what patients think. Richmond R, et al. **Aust N Z J Public Health** 1996 Apr;20(2):195–200

The need for community trials in Australia [published erratum appears in Aust N Z J Public Health 1996 Apr;20(2):194] Rissel C. **Aust N Z J Public Health** 1996 Feb;20(1):99–101

Public information and vaccination policy. Salisbury DM. **Biologicals** 1997 Jun;25(2):241

Promoting health in prisons. Prison service for England and Wales has been designated a WHO collaborating centre [letter; comment] Acheson D. **BMJ** 1997 Jan 25; 314(7076):302. Comment on: BMJ 1996 Nov 9;313(7066):1161.

The WHO wants governments to encourage people to stop smoking [letter] [see comments] Asvall JE. **BMJ** 1997 Jun 7;314(7095):1688. Comment in: BMJ 1997 Jun 21;314(7097):1827.

Wales is set 20 health targets [news] Dobson R. **BMJ** 1997 Jun 21;314(7097):1785

Race, ethnicity, and sexual health [editorial; comment] Fenton K, et al. **BMJ** 1997 Jun 14;314(7096):1703–4. Comment on: BMJ 1997 Jun 14;314(7096):1715–8. Comment on: BMJ 1997 Jun 14;314(7096):1719–23. Comment on: BMJ 1997 Jun 14;314(7096):1743–7. Comment on: BMJ 1997 Jun 14;314(7096):1747–51. Comment on: BMJ 1997 Jun 14;314(7096):1751–6.

Barriers to evidence based policy [editorial] Florin D. **BMJ** 1996 Oct 12;313(7062):894–5

Enjoy your fruits and vegetables [editorial; comment] Gillman MW. **BMJ** 1996 Sep 28;313(7060):765–6. Comment on: BMJ 1996 Sep 28;313(7060):775–9.

Promoting health in prisons. NHS would provide an inferior service [letter; comment] Hall JM. **BMJ** 1997 Jan 25; 314(7076):302. Comment on: BMJ 1996 Nov 9;313(7066):1161.

Setting target rates for breast feeding would probably be a waste of resources [letter; comment] Hoddinott P. **BMJ** 1997 Aug 2;315(7103):313. Comment on: BMJ 1997 Apr 5;314(7086):1030–3.

Promoting health in prisons. More resources are needed [letter] Rossiter S. **BMJ** 1997 Apr 12;314(7087):1129

The campaigner who dreams of a tobacco free world [news] Rutter T. **BMJ** 1997 Aug 23;315(7106):448

Child health promotion and its challenge to medical education [editorial] Stone D, et al. **BMJ** 1997 Sep 20; 315(7110):694–5

Promoting health in prisons. Discussion is needed between prison health service and NHS [letter; comment] Williams O, et al. **BMJ** 1997 Apr 12;314(7087):1128–9. Comment on: BMJ 1996 Nov 9;313(7066):1161.

Insomnia and oral health [letter] Stillman–Lowe C. **Br Dent J** 1997 Aug 23;183(4):121

Anti–smoking advice in general practice consultations: general practitioners' attitudes, reported practice and perceived problems. Coleman T, et al. **Br J Gen Pract** 1996 Feb;46(403):87–91

Health for all children: a programme for health promotion. Elliman DA. **Br J Hosp Med** 1996 Sep 18–Oct 1; 56(6):291–4 (12 ref.)

Periodicity of Eating and Human Health. Proceedings of a meeting. Paris, France, 21–23 November 1996. **Br J Nutr** 1997 Apr;77 Suppl 1:S1–129

Periodicity of eating and human health: present perspective and future directions. Gibney MJ, et al. **Br J Nutr** 1997 Apr;77 Suppl 1:S3–5

A national strategy for the promotion of physical activity [editorial] Fentem PH. **Br J Sports Med** 1996 Dec; 30(4):280–1

Systematic review of physical activity promotion strategies [letter; comment] Webborn AD. **Br J Sports Med** 1996 Sep;30(3):268–9. Comment on: Br J Sports Med 1996 Jun;30(2):84–9.

Renewing the commitment to achieve health for all in the Americas. Puentes–Markides C. **Bull Pan Am Health Organ** 1996 Mar;30(1):80–2

Prostate Cancer Awareness Week: September 22 to 28, 1997. Crawford ED. **CA Cancer J Clin** 1997 Sep–Oct; 47(5):288–96

1995 Canadian women's health test. Time to promote women's health [editorial] [see comments] Wiesenberg S. **Can Fam Physician** 1996 Jan;42:13–5, 20–3. Comment in: Can Fam Physician 1996 May;42:848. Comment in: Can Fam Physician 1996 Jun;42:1088–90.

Canadian Conference on Dissemination Research Strengthening Health Promotion and Disease Prevention. Proceedings. Vancouver, British Columbia, 27–29 March 1995. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S1–86

Action statement for health promotion in Canada. Canadian Public Health Association. **Can J Public Health** 1996 Jul–Aug;87(4):suppl 1–9, 1–9 **(Eng, Fre)**

Using diffusion theory in health promotion: the case of tobacco. Ferrence R. **Can J Public Health** 1996 Nov–Dec; 87 Suppl 2:S24–7

Dissemination and utilization of health promotion and disease prevention knowledge: theory, research and experience. Green LW, et al. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S11–7 (80 ref.)

A dissemination research agenda to strengthen health promotion and disease prevention. Johnson JL, et al. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S5–10

Resilience in families: challenges for health promotion. Mangham C, et al. **Can J Public Health** 1996 Nov–Dec; 87(6):373–4

Improving the fit between research and practice in health promotion: overcoming structural barriers. Nutbeam D. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S18–23

Health promotion technology transfer: organizational perspectives. Orlandi MA. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S28–33

Health communication research and health promotion. Rootman I. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S84–6

Surveillance support for population health decision making [editorial] Sherman GJ, et al. **Can J Public Health** 1996 Jul–Aug;87(4):221–3 **(Eng, Fre)**

Participatory research in a Native Hawaiian community. The Wai'anae Cancer Research Project. Matsunaga DS, et al. **Cancer** 1996 Oct 1;78(7 Suppl):1582–6

"Healthy Dubec" –design of a joint Czech–American community project for the reduction of cardiovascular and cerebrovascular disease (adapted from American experience). Komarek L, et al. **Cent Eur J Public Health** 1995 Nov;3(4):230–3

Surgeon General's report on physical activity and health is hailed as a historic step toward a healthier nation [news] Johnson JM, et al. **Circulation** 1996 Nov 1;94(9):2045

Cervical cancer: screening hard–to–reach groups [editorial; comment] Grunfeld E. **CMAJ** 1997 Sep 1;157(5):543–5. Comment on: CMAJ 1997 Sep 1;157(5):521–6.

Health promotion of adolescents. Ye G. **Coll Antropol** 1997 Jun;21(1):93–100

Promoting weight loss in type II diabetes [see comments] Brown SA, et al. **Diabetes Care** 1996 Jun;19(6):613–24. Comment in: ACP J Club 1997 Jan–Feb;126(1):5.

Will older sedentary people with non–insulin–dependent diabetes mellitus start exercising? A health promotion model. Samaras K, et al. **Diabetes Res Clin Pract** 1997 Aug; 37(2):121–8

Activities of daily living studied longitudinally between 70 and 76 years of age. Sonn U, et al. **Disabil Rehabil** 1996 Feb;18(2):91–100

Ethics and public health promotion. Nilstun T. **Epidemiol Prev** 1994 Dec;18(61):200–3

Food and Drink Federation healthy lifestyle initiative: aiming to tackle levels of obesity in the UK population. Barber K. **Eur J Cancer Prev** 1996 Dec;5(6):521–2

Using standardized patient instructors to teach health promotion interviewing skills. Sharp PC, et al. **Fam Med** 1996 Feb;28(2):103–6

A systematic review of the effectiveness of promoting lifestyle change in general practice. Ashenden R, et al. **Fam Pract** 1997 Apr;14(2):160–76 (51 ref.)

The effect of a computer–generated patient–held medical record summary and/or a written personal health record on patients' attitudes, knowledge and behaviour concerning health promotion. Liaw T, et al. **Fam Pract** 1996 Jun; 13(3):289–93

The Latino Health Advocacy Program: a collaborative lay health advisor approach. Baker EA, et al. **Health Educ Behav** 1997 Aug;24(4):495–509

Developing capacities of youth as lay health advisors: a case study with high school students. Berkley–Patton J, et al. **Health Educ Behav** 1997 Aug;24(4):481–94

Changes in empowerment: effects of participation in a lay health promotion program. Booker VK, et al. **Health Educ Behav** 1997 Aug;24(4):452–64

Using sponsorship to promote health messages to children. Corti B, et al. **Health Educ Behav** 1997 Jun;24(3):276–86

Recruitment and training issues from selected lay health advisor programs among African Americans: a 20–year perspective. Jackson EJ, et al. **Health Educ Behav** 1997 Aug;24(4):418–31 (47 ref.)

Self–efficacy as a predictor of dietary change in a low–socioeconomic–status southern adult population. Shannon J, et al. **Health Educ Behav** 1997 Jun;24(3):357–68

Photovoice: concept, methodology, and use for participatory needs assessment. Wang C, et al. **Health Educ Behav** 1997 Jun;24(3):369–87

Program: worksite wellness for Mississippi employees. **Health Educ Q** 1996 Nov;23(4):419–20

Community coalitions for prevention and health promotion: factors predicting satisfaction, participation, and planning. Butterfoss FD, et al. **Health Educ Q** 1996 Feb;23(1):65–79

Delivering the goods, showing our stuff: the case for a constructivist paradigm for health promotion research and practice. Labonte R, et al. **Health Educ Q** 1996 Nov; 23(4):431–47

Whom and from what paradigm should health promotion serve? Lewis FM. **Health Educ Q** 1996 Nov;23(4):448–52

An evaluation of the results of media and educational campaigns designed to shorten the time taken by patients with acute myocardial infarction to decide to go to hospital. Blohm MB, et al. **Heart** 1996 Nov;76(5):430–4

Workplace tobacco interventions. Perry G Jr. **Indiana Med** 1996 Mar–Apr;89(2):157–9

Obstetrician–gynecologists and the public health [editorial; comment] Johnson TR. **Int J Gynaecol Obstet** 1997 May; 57(2):123–6. Comment on: Int J Gynaecol Obstet 1997 May;57(2):127–32.

Miracles take a little longer: project 2000 and the health–promoting nurse. Robinson S, et al. **Int J Nurs Stud** 1995 Dec;32(6):568–79

Occupational medicine at the verge of the twenty first century: evaluation of accomplished and expected changes in the preventive approach. Indulski JA. **Int J Occup Med Environ Health** 1997;10(1):1–10

Preventive and promotive medicine in ambulatory clinical practice: a prospective simulated patient study [see comments] Wong YY, et al. **Int J Qual Health Care** 1995 Dec;7(4):333–41. Comment in: Int J Qual Health Care 1995 Dec;7(4):323–4.

The performance of community–based physicians regarding preventive medicine and health promotion [editorial; comment] Woodward CA, et al. **Int J Qual Health Care** 1995 Dec;7(4):323–4. Comment on: Int J Qual Health Care 1995 Dec;7(4):333–41.

Four years of practice–based and exercise–supported behavioural medicine in one community of the German CINDI area. Countrywide Integrated Non–Communicable Diseases Intervention. Wiesemann A, et al. **Int J Sports Med** 1997 May;18(4):308–15

"Great transitions, preparing adolescents for a new century". A commentary on the health component of the concluding report of the Carnegie Council on Adolescent Development. Cohen MI. **J Adolesc Health** 1996 Jul; 19(1):2–5

Through the looking glass: self–esteem in adolescents [editorial] Litt IF. **J Adolesc Health** 1996 Jul;19(1):1

Determinants of health of North–American adolescents: evolving definitions, recent findings, and proposed research

agenda. Raphael D. **J Adolesc Health** 1996 Jul;19(1):6–16 (97 ref.)
Hong Kong nurses' health-related behaviours: implications for nurses' role in health promotion. Callaghan P, et al. **J Adv Nurs** 1997 Jun;25(6):1276–82
Ethnography: studying the fate of health promotion in coronary families. Preston RM. **J Adv Nurs** 1997 Mar; 25(3):554–61
Health promotion ideology and nursing education. Rush KL. **J Adv Nurs** 1997 Jun;25(6):1292–8 (29 ref.)
Evaluation of health promotion activities in community nursing practice. Sourtzi P, et al. **J Adv Nurs** 1996 Dec; 24(6):1214–23
Physician advice and tobacco use: a survey of 1st-year college students. Foote JA, et al. **J Am Coll Health** 1996 Nov;45(3):129–32
Principles for assuring the health of college students: a California perspective. Patrick K, et al. **J Am Coll Health** 1997 May;45(6):289–93
Position of the American Dietetic Association: weight management. **J Am Diet Assoc** 1997 Jan;97(1):71–4 (44 ref.)
Reducing dietary fat: putting theory into practice. Symposium proceedings. New York, New York, December 10–11, 1996. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S1–96
Population nutrient intake approaches dietary recommendations: 1991 to 1995 Framingham Nutrition Studies. Millen BE, et al. **J Am Diet Assoc** 1997 Jul; 97(7):742–9
Steps toward a fat-free future. Sullivan LW. **J Am Diet Assoc** 1997 Jul;97(7 Suppl):S52–3 (6 ref.)
Is managed care good or bad for geriatric medicine? Lachs MS, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1123–7
Foot pain and disability in older persons. Pilot study in assessment and education. Helfand AE, et al. **J Am Podiatr Med Assoc** 1996 Feb;86(2):93–8
Veterinary student wins DHHS secretary's certificate of merit in innovations in health promotion and disease prevention writing competition. Hendrix CM. **J Am Vet Med Assoc** 1997 May 15;210(10):1434–5
Take Heart II: replication of a worksite health promotion trial. Glasgow RE, et al. **J Behav Med** 1997 Apr; 20(2):143–61
The effects of anxiety on response times to disease detection and health promotion behaviors. Millar MG, et al. **J Behav Med** 1996 Aug;19(4):401–13
Promoting wellness in cardiac rehabilitation: exploring the role of altruism. Sullivan GB, et al. **J Cardiovasc Nurs** 1997 Apr;11(3):43–52 (47 ref.)
Is there health in wellness? [editorial] Levenstein S. **J Clin Gastroenterol** 1996 Sep;23(2):94–6
Nursing process for health promotion using King's theory. Calladine ML. **J Community Health Nurs** 1996;13(1):51–7
Designing a successful health fair to promote individual, family, and community health. Dillon DL, et al. **J Community Health Nurs** 1997;14(1):1–14
Promoting healthier behaviors, attitudes, and beliefs toward sun exposure in parents of young children. Rodrigue JR. **J Consult Clin Psychol** 1996 Dec;64(6):1431–6
HIV risk reduction for incarcerated women: a comparison of brief interventions based on two theoretical models. St Lawrence J, et al. **J Consult Clin Psychol** 1997 Jun; 65(3):504–9
Randomised controlled trial of anti-smoking advice in pregnancy: 20 years on [comment] Donovan JW. **J Epidemiol Community Health** 1996 Jun;50(3):237–8. Comment on: J Epidemiol Community Health 1996 Jun;50(3):232–6.
Impact of a gonorrhea control program, including selective mass treatment, in female sex workers. Holmes KK, et al. **J Infect Dis** 1996 Oct;174 Suppl 2:S230–9
Focused peer-mediated educational programs among female sex workers to reduce sexually transmitted disease and human immunodeficiency virus transmission in Kenya and Zimbabwe. Ngugi EN, et al. **J Infect Dis** 1996 Oct;174 Suppl 2:S240–7
Hope and a health-promoting lifestyle in persons with Parkinson's disease. Fowler SB. **J Neurosci Nurs** 1997 Apr; 29(2):111–6
Health promotion in chronically ill older adults. Fowler SB. **J Neurosci Nurs** 1997 Feb;29(1):39–43 (33 ref.)
Using a health promotion model to enhance medication compliance. Lannon SL. **J Neurosci Nurs** 1997 Jun; 29(3):170–8
A conceptual model for an adult health masters in nursing curriculum. McSweeney JC, et al. **J Nurs Educ** 1997 Feb; 36(2):82–5
Fat is a health issue [editorial] Haller KB. **J Obstet Gynecol Neonatal Nurs** 1997 May–Jun;26(3):255
A graduate course in work site health promotion for occupational health practitioners. Kushnir T, et al. **J Occup Environ Med** 1996 Mar;38(3):284–9
The American College of Occupational and Environmental Medicine's Corporate Health Achievement Award. Peterson KW, et al. **J Occup Environ Med** 1996 Oct; 38(10):969–72
American children and immunizations: a progress report. Kefalas MJ, et al. **J Pediatr Nurs** 1996 Oct;11(5):327–9
The state of the nation's oral health: mid-decade assessment of Healthy People 2000. Gift HC, et al. **J Public Health Dent** 1996 Spring;56(2):84–91
The need for health promotion in oral cancer prevention and early detection. Horowitz AM, et al. **J Public Health Dent** 1996 Fall;56(6):319–30 (124 ref.)
Promoting breastfeeding: a view of the current position and a proposed agenda for action in Scotland. Campbell H, et al. **J Public Health Med** 1996 Dec;18(4):406–14
Building health promotion into health care reform in Russia. Tillinghast SJ, et al. **J Public Health Med** 1996 Dec; 18(4):473–7
Setting the stage for health impact assessment. Ratner PA, et al. **J Public Health Policy** 1997;18(1):67–79 (26 ref.)
Preventive medicine and health promotion are overdue in the agricultural workplace. Schenker MB. **J Public Health Policy** 1996;17(3):275–305 (95 ref.)
How can psychological theory help to promote condom use in sub-Saharan African developing countries? Campbell T. **J R Soc Health** 1997 Jun;117(3):186–91 (47 ref.)
Toward the assessment of psychological empowerment in health promotion: initial tests of validity and reliability. Rissel C, et al. **J R Soc Health** 1996 Aug;116(4):211–8
Diet in the prevention of cancer: what are the chances of avoidance? Walker AR. **J R Soc Health** 1996 Dec; 116(6):360–6 (82 ref.)
Observations from the CDC. The Prevention Research Centers Program: collaboration in women's health. Riley PL, et al. **J Womens Health** 1997 Jun;6(3):281–3
AAD wants to convert sun worshippers [news] Goldsmith MF. **JAMA** 1997 Jun 11;277(22):1745–6
Intensive smoking cessation efforts cost-effective [news] Marwick C. **JAMA** 1996 Oct 23–30;276(16):1291
HIV prevention in developed countries. Coates TJ, et al. **Lancet** 1996 Oct 26;348(9035):1143–8 (50 ref.)
Health through community co-operation. Scott-Samuel A. **Lancet** 1997 Mar 15;349(9054):746
Health information systems for leprosy control programmes: a case for quality assessment. Grodos D, et al. **Lepr Rev** 1996 Sep;67(3):171–82
The Tripler Army Medical Center LEAN Program: a healthy lifestyle model for the treatment of obesity. James LC, et al. **Mil Med** 1997 May;162(5):328–32
World Health Day—April 7, 1997. **MMWR Morb Mortal Wkly Rep** 1997 Mar 28;46(12):257
Impact of promotion of the Great American Smokeout and availability of over-the-counter nicotine medications, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Sep 19;46(37):867–71
Cancer screening offered by worksites—United States, 1992 and 1995. **MMWR Morb Mortal Wkly Rep** 1997 May 16; 46(19):421–4
Teaching by example [editorial] Thomas JR. **Mo Med** 1996 Feb;93(2):54–5
Wellness is key for diabetics. Don't let sick days get you down. Allen CA. **N C Med J** 1997 Jan–Feb;58(1):39–42
Prevention isn't (simply) kids' stuff. A discussion of health promotion for older adults. Stoodt G. **N C Med J** 1996 Nov–Dec;57(6):392–6
Nutrition and health care: economic considerations. Karetzky MS. **N J Med** 1997 Mar;94(3):37–41
Call your dentist [letter] Hoolihan K. **N Z Dent J** 1997 Jun; 93(412):53
Preventive medicine or discrimination [letter; comment] Komamura K. **Nat Med** 1996 Nov;2(11):1162. Comment on: Nat Med 1995 May;1(5):385. Comment on: Nat Med 1996 Jun;2(6):622–4. Comment on: Nat Med 1996 Sep;2(9):959–60. Comment on: Nat Med 1996 Nov;2(11):1179–83.
Health motivation: key to health promoting behavior? [letter] Haq MB, et al. **Nurse Pract** 1996 Nov;21(11):155–6
Health promotion in HIV: perspectives for practitioners [news] Kitten JH. **Nurse Pract** 1997 Feb;22(2):114–6, 119, 125 (30 ref.)
Nurse-managed corporate employee wellness centers. Lugo NR. **Nurse Pract** 1997 Apr;22(4):104–8, 112–3
Preconception care: a health promotion opportunity [see comments] Perry LE. **Nurse Pract** 1996 Nov;21(11):24–6, 32, 34 passim (27 ref.). Comment in: Nurse Pract 1997 Mar;22(3):14.
Syndrome X. Primary care provider's role in health promotion and disease prevention. Sinsel-Phillips P. **Nurse Pract** 1996 Jun;21(6):66, 69–70
Television viewing and adolescent sexuality [letter] Turner HA. **Nurse Pract** 1996 Nov;21(11):15, 18, 23 (11 ref.)
Compliance with the Australian Dietary Guidelines in the early 1990's: have population-based health promotion programs been effective? Turrell G. **Nutr Health** 1997; 11(4):271–88
Research and development on functional foods in Malaysia. Ahmad S. **Nutr Rev** 1996 Nov;54(11 Pt 2):S169–71 (13 ref.)
Complex carbohydrates and resistant starch. Brown I. **Nutr Rev** 1996 Nov;54(11 Pt 2):S115–9 (29 ref.)
Functional properties of edible mushrooms. Chang R. **Nutr Rev** 1996 Nov;54(11 Pt 2):S91–3 (22 ref.)
Beta-carotene, vitamin C, and vitamin E: the protective micronutrients. Charleux JL. **Nutr Rev** 1996 Nov;54(11 Pt 2):S109–14 (28 ref.)
What scientific data are necessary? Clydesdale FM. **Nutr Rev** 1996 Nov;54(11 Pt 2):S195–8 (7 ref.)
Functional food in China. Dai Y, et al. **Nutr Rev** 1996 Nov; 54(11 Pt 2):S21–3 (0 ref.)
Minor constituents of rice bran oil as functional foods. de Deckere EA, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S120–6 (81 ref.)
The traditional and emerging role of nuts in healthful diets. Dreher ML, et al. **Nutr Rev** 1996 Aug;54(8):241–5 (19 ref.)
Bioactive ingredients: antioxidants and polyphenols in tea. Dreosti IE. **Nutr Rev** 1996 Nov;54(11 Pt 2):S51–8 (62 ref.)
Japanese green tea as a cancer preventive in humans. Fujiki H, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S67–70 (25 ref.)
Functional foods in North America. Glinsmann WH. **Nutr Rev** 1996 Nov;54(11 Pt 2):S33–7 (10 ref.)
Functional foods: the western perspective. Hasler CM. **Nutr Rev** 1996 Nov;54(11 Pt 2):S6–10 (49 ref.)
Functional foods: approaches to definition and substantiation. Head RJ, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S17–20 (13 ref.)
Functional foods: the western consumer viewpoint. Hilliam M. **Nutr Rev** 1996 Nov;54(11 Pt 2):S189–94 (6 ref.)
The safety assurance of functional foods. Huggett AC, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S132–40 (25 ref.)
Research needs for establishing the safety of functional foods. Huggett AC, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S143–8 (29 ref.)
Legal aspects of functional foods: the situation in China. Kan X. **Nutr Rev** 1996 Nov;54(11 Pt 2):S162–6 (16 ref.)
Forever fiber. Katan MB. **Nutr Rev** 1996 Aug;54(8):253–4 (10 ref.)
The Eastern consumer viewpoint: the experience in Japan. Kojima K. **Nutr Rev** 1996 Nov;54(11 Pt 2):S186–8 (0 ref.)
Regulatory status of functional foods in Singapore. Kuan CH. **Nutr Rev** 1996 Nov;54(11 Pt 2):S168 (0 ref.)
Health benefits and risk analysis with reference to cancer studies. Lee HP. **Nutr Rev** 1996 Nov;54(11 Pt 2):S141–2 (1 ref.)
Fruits and vegetables: protective or just fellow travelers? Nestle M. **Nutr Rev** 1996 Aug;54(8):255–7 (22 ref.)
An approach to functional food: cancer preventive potential of vegetables and fruits and their active constituents. Ohigashi H, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S24–8 (26 ref.)
Oligosaccharides with beneficial health effects: a Japanese perspective. Oku T. **Nutr Rev** 1996 Nov;54(11 Pt 2):S59–66 (32 ref.)
Regulatory aspects of functional foods in Nigeria. Osuide GE. **Nutr Rev** 1996 Nov;54(11 Pt 2):S167 (0 ref.)
Functional foods in the European Union. Pascal G. **Nutr Rev** 1996 Nov;54(11 Pt 2):S29–32 (13 ref.)
Functional foods—the future: how to regulate these foods. Pascal G. **Nutr Rev** 1996 Nov;54(11 Pt 2):S199–201 (8 ref.)
The prospect for functional foods in Thailand. Pothisiri P, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S172–3 (3 ref.)
Regulatory and legal aspects of functional foods: the Australian perspective. Preston C, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S156–61 (5 ref.)
Regulatory and legal aspects of functional foods: an international perspective. Randell A, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S152–5 (0 ref.)
Functional foods—shades of gray: an industry perspective. Richardson DP. **Nutr Rev** 1996 Nov;54(11 Pt 2):S174–85 (42 ref.)
Functional effects of food components and the gastrointestinal system: chicory fructooligosaccharides. Roberfroid MB. **Nutr Rev** 1996 Nov;54(11 Pt 2):S38–42 (20 ref.)
Functional dairy foods with Lactobacillus strain GG. Salminen S. **Nutr Rev** 1996 Nov;54(11 Pt 2):S99–101 (32 ref.)
Marine oils: the health benefits of n-3 fatty acids. Uauy-Dagach R, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S102–8 (66 ref.)
The eastern perspective on functional foods based on traditional Chinese medicine. Weng W, et al. **Nutr Rev** 1996 Nov;54(11 Pt 2):S11–6 (11 ref.)
Reorientating health promotion in primary care to participative approaches. Findlay G, et al. **Occas Pap R Coll Gen Pract** 1994 Jan;(64):29–32
Ideas for the evaluation of community participation initiatives. Laurie E. **Occas Pap R Coll Gen Pract** 1994 Jan;(64):33–5
A celebration of health through art. Rigler M, et al. **Occas Pap R Coll Gen Pract** 1994 Jan;(64):17–20
Yaxley Group Practice and Patients' Association. Thomas P. **Occas Pap R Coll Gen Pract** 1994 Jan;(64):24–5
The role of the human spirit in recovery from injury. Miller M. **Occup Health Saf** 1994 Oct;63(10):167–70, 193
Pennsylvania health on the net? Aaron DJ, et al. **Pa Med** 1996 Sep;99(9):20–2
Factors associated with regular exercise. Hurrell RM. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):871–4
Physical activity preferences, preferred sources of assistance, and perceived barriers to increased activity among physically inactive Australians. Booth ML, et al. **Prev Med** 1997 Jan–Feb;26(1):131–7
XVth World Conference of the IUHPE Makuhari, Japan—August 20–25, 1995. **Promot Educ** 1995 Dec; 2(4):34–40
Sustainable development in health. Bellamy C, et al. **Promot Educ** 1995 Dec;2(4):9–12
Evolution and implications of P.A.R. for public health. George MA, et al. **Promot Educ** 1996 Dec;3(4):6–10
The challenges of participatory action research for health promotion [editorial] Green LW, et al. **Promot Educ** 1996 Dec;3(4):3–5 **(Eng, Fre)**
"...The best of times... the worst of times": bringing environmental health to life. Hagard S. **Promot Educ** 1995 Dec;2(4):21–4
Aspects of national health promotion programmes for youth. Levin D, et al. **Promot Educ** 1997 Jun;4(2):16–8

HEALTH PROMOTION

Bringing Health to Life. Nakajima H. **Promot Educ** 1995 Dec; 2(4):7–8

Reflections from the XVth World Conference [editorial] Pinder L. **Promot Educ** 1995 Dec;2(4):3–5

Health promotion: bringing health to life. Rajala M. **Promot Educ** 1995 Dec;2(4):13–6

There's something different in what's happening to us: P.A.R. in a work setting. Ritchie JE. **Promot Educ** 1996 Dec; 3(4):16–20

Participatory research as social mobilization for health. Westphal MF, et al. **Promot Educ** 1996 Dec;3(4):21–4

Shaping perceptions to motivate healthy behavior: the role of message framing. Rothman AJ, et al. **Psychol Bull** 1997 Jan;121(1):3–19 (125 ref.)

Protecting the public health—the role of environmental health. McCarthy A. **Public Health** 1996 Mar;110(2):77–80

Health promotion needs of students in a college environment. Fish C, et al. **Public Health Nurs** 1996 Apr;13(2):104–11

Older adults' experience of health promotion: a theory for nursing practice. Frenn M. **Public Health Nurs** 1996 Feb; 13(1):65–71 (32 ref.)

Access to health promotion, protection, and disease prevention among impoverished individuals. Northam S. **Public Health Nurs** 1996 Oct;13(5):353–64

Predictors of BMI among adults with Down syndrome: the social context of health promotion. Fujiura GT, et al. **Res Dev Disabil** 1997 Jul–Aug;18(4):261–74

Family strengths, motivation, and resources as predictors of health promotion behavior in single-parent and two-parent families. Ford-Gilboe M. **Res Nurs Health** 1997 Jun; 20(3):205–17

Test of the health promotion model as a causal model of construction workers' use of hearing protection. Lusk SL, et al. **Res Nurs Health** 1997 Jun;20(3):183–94

How much physical activity should we do? The case for moderate amounts and intensities of physical activity. Blair SN, et al. **Res Q Exerc Sport** 1996 Jun;67(2):193–205 (58 ref.)

Physical activity for a healthy life. Karvonen MJ. **Res Q Exerc Sport** 1996 Jun;67(2):213–5 (12 ref.)

How much physical activity is optimal for health? Methodological considerations. Lee IM, et al. **Res Q Exerc Sport** 1996 Jun;67(2):206–8 (20 ref.)

How much physical activity do we need to maintain health and prevent disease? Different diseases—different mechanisms. Slattery ML. **Res Q Exerc Sport** 1996 Jun; 67(2):209–12 (19 ref.)

Community cardiac awareness teaching in a rural area: the potential for a health promotion message. Bury G, et al. **Resuscitation** 1996 Dec;33(2):141–5

Ear care projects for Estonia and Karelia. Salmivalli A, et al. **Scand Audiol** 1996;25(4):277–8

Summary of the Finnish research project (1981–1992) to promote the health and work ability of aging workers. Tuomi K, et al. **Scand J Work Environ Health** 1997;23 Suppl 1:66–71

Declining prevalence of chlamydial infection among adolescent girls. Katz BP, et al. **Sex Transm Dis** 1996 May–Jun;23(3):226–9

Empowering patients: issues and strategies. Anderson JM. **Soc Sci Med** 1996 Sep;43(5):697–705 (42 ref.)

Obstacles to community health promotion. Guldan GS. **Soc Sci Med** 1996 Sep;43(5):689–95 (26 ref.)

Bore holes and the vanishing of guinea worm disease in Ghana's upper region. Hunter JM. **Soc Sci Med** 1997 Jul; 45(1):71–89

Meanings of community. Jewkes R, et al. **Soc Sci Med** 1996 Aug;43(4):555–63

Development of public policy and physical activity initiatives internationally. Blair SN, et al. **Sports Med** 1996 Mar; 21(3):157–63

Theories and techniques for promoting physical activity behaviours. Marcus BH, et al. **Sports Med** 1996 Nov; 22(5):321–31 (81 ref.)

Lifestyle activity. Current recommendations. Phillips WT, et al. **Sports Med** 1996 Jul;22(1):1–7

Exercise and relaxation in health promotion. Shephard RJ. **Sports Med** 1997 Apr;23(4):211–7 (51 ref.)

Pilot test results comparing the All Stars program with seventh grade D.A.R.E.: program integrity and mediating variable analysis. Hansen WB. **Subst Use Misuse** 1996 Aug; 31(10):1359–77

Integrating smoking cessation into periconceptional care [letter] Gönczi L, et al. **Tob Control** 1996 Summer;5(2):160

An analysis of the successful 1992 Massachusetts tobacco tax initiative. Koh HK. **Tob Control** 1996 Autumn; 5(3):220–5

Quitting smoking: why, how, and what might help. Pederson LL, et al. **Tob Control** 1996 Autumn;5(3):209–14

International Quit & Win '96: a global campaign to promote smoking cessation [letter] Puska P, et al. **Tob Control** 1996 Winter;5(4):342

Provision of health information by British travel agents. Grabowski P, et al. **Trop Med Int Health** 1996 Oct; 1(5):730–2

Introduction to proceedings of the Teaching to Promote Women's Health conference. Batty HP, et al. **Womens Health Issues** 1997 Mar–Apr;7(2):71–5

Rapid appraisal before impact evaluation studies [letter; comment] Greiner T. **World Health Forum** 1997;18(1):66–7 . Comment on: World Health Forum 1996;17(3):287.

Baby-friendly hospitals in Kerala [letter] Philip E, et al. **World Health Forum** 1997;18(1):68–9

Difficulties of putting dietary changes into practice [letter; comment] Walker AR, et al. **World Health Forum** 1997; 18(1):64–6. Comment on: World Health Forum 1996;17(2):157–63.

Sustaining, protecting and promoting public health in Bosnia and Herzegovina. Alderslade R, et al. **World Health Stat Q** 1996;49(3–4):185–8

Intervention strategies and determinants of physical activity and exercise behavior in adult and older adult men and women. King AC. **World Rev Nutr Diet** 1997;82:148–58 (45 ref.)

[The revised European Code Against Malignant Tumors] Boyle P, et al. **Cas Lek Cesk** 1996 Nov 20;135(22):711–5 (Eng. Abstr.) **(Cze)**

[The health project Ebeltoft: health check ups and discussions in general practice. Basic data from a 5-year, prospective, randomized, controlled population study] Lauritzen T, et al. **Ugeskr Laeger** 1997 Jun 16;159(25):3940–6 (Eng. Abstr.) **(Dan)**

[Health discussions on television: different types of speakers for different types of representation] Dubois L. **Can J Public Health** 1996 Jan–Feb;87(1):56–61 (Eng. Abstr.) **(Fre)**

[Tobacco: raise taxes to save lives (letter)] Mélihan-Cheinin P. **Promot Educ** 1995 Dec;2(4):6 **(Fre)**

[Transition of the roles and mandates of public health professionals] Renaud L, et al. **Promot Educ** 1996 Dec; 3(4):29–32 (Eng. Abstr.) **(Fre)**

[Common knowledge of protective health factors—a qualitative study] Strittmatter R, et al. **Psychother Psychosom Med Psychol** 1996 Feb;46(2):68–75 (Eng. Abstr.) **(Ger)**

[Health promotion and prevention in foreign populations in Switzerland:step-by-step progress] Burgi D. **Schweiz Rundsch Med Prax** 1997 May 21;86(21):906–10 (Eng. Abstr.) **(Ger)**

[Assessment of the health-promoting lifestyle profile on reliability and validity] Huang YH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Sep; 12(9):529–37 (Eng. Abstr.) **(Jpn)**

[A consideration on the concept of health] Ikuta K. **Nippon Koshu Eisei Zasshi** 1996 Dec;43(12):1005–8 **(Jpn)**

[The effect of the AIDS campaign on case numbers of male urethritis] Kojima H. **Nippon Koshu Eisei Zasshi** 1996 Jul; 43(7):545–50 (Eng. Abstr.) **(Jpn)**

[Ventilatory threshold in Japanese—as the basis for exercise prescription for health promotion] Miura K. **Nippon Koshu Eisei Zasshi** 1996 Mar;43(3):220–30 (Eng. Abstr.) **(Jpn)**

[The short-term effect of a smoking prevention program for the upper graders of elementary schools—the results of intervention study for two years with quasi-experimental design] Nishioka N, et al. **Nippon Koshu Eisei Zasshi** 1996 Jun;43(6):434–45 (Eng. Abstr.) **(Jpn)**

[School-based intervention trial for cardiovascular health] Yanagi H, et al. **Nippon Koshu Eisei Zasshi** 1997 Mar; 44(3):174–83 (Eng. Abstr.) **(Jpn)**

[Supporting roles of health centers in community health practice by municipalities] Yasuda N, et al. **Nippon Koshu Eisei Zasshi** 1996 Nov;43(11):997–1002 (Eng. Abstr.) **(Jpn)**

[Total health promotion plan for laborers—physical exercise and bone metabolism] Niwa S, et al. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jan;70(1):17–27 (8 ref.) **(Jpn)**

[Effect of worksite dental health program on periodontal status—evaluation by CPITN and bleeding on probing at each tooth] Ide R, et al. **Sangyo Eiseigaku Zasshi** 1997 Jan; 39(1):21–6 (Eng. Abstr.) **(Jpn)**

[Preventive and health promotion work in family practice. Dilemmas and proposals on general guidelines] Hafting M. **Tidsskr Nor Laegeforen** 1997 May 20;117(13):1933–6 (35 ref.) **(Nor)**

[Preventive health services in the county of Buskerud—environmental health services] Rognerud M, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2799–801 (Eng. Abstr.) **(Nor)**

[Effects of a TV mental health campaign 1992] Søgaard AJ, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2467–72 (Eng. Abstr.) **(Nor)**

[The healthy life] Silva AC, et al. **Acta Med Port** 1997 Jan; 10(1):71–4 (Eng. Abstr.) **(Por)**

[The importance of the pediatrician in oral health care promotion] Schalka MM, et al. **Rev Saude Publica** 1996 Apr;30(2):179–86 (Eng. Abstr.) **(Por)**

[The implications of modern epidemiology in promoting the medicine of the healthy human being] Ivan A, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan–Jun; 38(1–2):8–13 **(Rum)**

[A health-promoting approach to the study of morbidity with temporary loss of work capacity among oil workers in western Siberia] Ovcharov EA. **Probl Sotsialnoi Gig Istor Med** 1996 Nov–Dec;(6):16–9 (Eng. Abstr.) **(Rus)**

[The Nation's health as a social mechanism of society's stable well-being] Razumov AN. **Vestn Ross Akad Med Nauk** 1997;(4):15–8 (Eng. Abstr.) **(Rus)**

[Current problems in health protection for servicemen] Mel'nichenko PI. **Voen Med Zh** 1997 Jul;318(7):51–5, 80 (Eng. Abstr.) **(Rus)**

[The protection and support of the breast feeding of infants in Russia] Ladodo KS. **Vopr Pitan** 1996;(1):37–9 **(Rus)**

[Human habitats and the protection of health in Islam] Hadrović A. **Med Arh** 1997;51(1–2):63–5 (Eng. Abstr.) **(Scr)**

[The evaluation of women's health promotion services: the internal client, the external client] Alcaraz M, et al. **Aten Primaria** 1997 Apr 30;19(7):337–42 (Eng. Abstr.) **(Spa)**

[Advice by the family physician and healthy life style (editorial)] Miñana JS. **Med Clin (Barc)** 1997 Jun 21; 109(4):137–9 **(Spa)**

[Has alcohol any beneficial effect? (editorial; comment)] San Molina L. **Med Clin (Barc)** 1996 Nov 16;107(17):655–6. Comment on: Med Clin (Barc) 1996 Nov 16;107(17):641–4. **(Spa)**

[Prevention of cardiovascular diseases: The Catalonia Declaration] **Rev Panam Salud Publica** 1997 Aug; 2(2):77–101 **(Spa)**

[Project of world objectives relating to the aged in the year 2001] **Salud Publica Mex** 1996 Nov–Dec;38(6):536–40 **(Spa)**

[Health conditions among the elderly] **Salud Publica Mex** 1996 Nov–Dec;38(6):533 **(Spa)**

ECONOMICS

A cost effective, community based heart health promotion project in England: prospective comparative study. Baxter T, et al. **BMJ** 1997 Sep 6;315(7108):582–5

US tobacco firms agree to $369bn deal [news] Beecham L. **BMJ** 1997 Jun 28;314(7098):1849

Promoting health in prisons [editorial] [see comments] Squires N. **BMJ** 1996 Nov 9;313(7066):1161. Comment in: BMJ 1997 Jan 25;314(7076):302. Comment in: BMJ 1997 Apr 12;314(7087):1128–9.

Exercising purchasing power for preventive care. Schauffler HH, et al. **Health Aff (Millwood)** 1996 Spring;15(1):73–85

Health promotion community development and the tyranny of individualism. Shiell A, et al. **Health Econ** 1996 May–Jun;5(3):241–7 (61 ref.)

Benefits. Raising the bar. Nordhaus-Bike AM. **Hosp Health Netw** 1997 Mar 20;71(6):80

The economics of health promotion [editorial] Anderson CA. **Nurs Outlook** 1997 May–Jun;45(3):105–6

HISTORY

The anti-tobacco campaign of the Nazis: a little known aspect of public health in Germany, 1933–45. Proctor RN. **BMJ** 1996 Dec 7;313(7070):1450–3

Cigarette smoking and health promotion in Nazi Germany [letter; comment] Procter RN. **J Epidemiol Community Health** 1997 Apr;51(2):208–10. Comment on: J Epidemiol Community Health 1996 Feb;50(1):109–10.

[Maintaining cleanliness and protecting health as proclaimed by Koran texts and hadiths of Mohammed S.A.V.S.] Muftić D. **Med Arh** 1997;51(1–2):41–3 (Eng. Abstr.) **(Scr)**

LEGISLATION & JURISPRUDENCE

Developing a health surveillance strategy for professional footballers in compliance with UK health and safety legislation. Fuller CW, et al. **Br J Sports Med** 1997 Jun; 31(2):148–9; discussion 150

Changes among retailers selling cigarettes to minors. Dovell RA, et al. **Can J Public Health** 1996 Jan–Feb;87(1):66–8

California's tobacco control saga. Novotny TE, et al. **Health Aff (Millwood)** 1996 Spring;15(1):58–72

Media advocacy: a strategy for advancing policy and promoting health. Wallack L, et al. **Health Educ Q** 1996 Aug;23(3):293–317

Tobacco and health in Louisiana. A position paper by the Louisiana Cancer and Lung Trust Fund Board. **J La State Med Soc** 1997 Apr;149(4):117–8

Media advocacy: lessons from community experiences. Jernigan DH, et al. **J Public Health Policy** 1996; 17(3):306–30 (23 ref.)

The Rhode Island Department of Health Minority Health Program. Witcher PR. **Med Health R I** 1996 Jul;79(7):255–6

Beyond advocacy: W.H.O.'s patients' rights agenda for health protection and promotion and appropriate high quality care. Barnard K. **Med Law** 1996;15(4):605–25

Public health is high on MMA legislative agenda. Christensen RG. **Minn Med** 1997 Mar;80(3):34

Health care reform should include worksite health promotion incentives. Chenoweth D. **Occup Health Saf** 1994 Oct; 63(10):141–3

FDA regulations restricting the sale and distribution of cigarettes and smokeless tobacco to protect children and adolescents (executive summary). **Tob Control** 1996 Autumn;5(3):236–46

METHODS

How are nations trying to prevent suicide? An analysis of national suicide prevention strategies. Taylor SJ, et al. **Acta Psychiatr Scand** 1997 Jun;95(6):457–63 (29 ref.)

Media advocacy in community prevention: news as a means to advance policy change. Holder HD, et al. **Addiction** 1997 Jun;92 Suppl 2:S189–99

Environmental change and organizational evolution: reconsidering the niche of community-based AIDS

organizations. Cain R. **AIDS Care** 1997 Jun;9(3):331–44
Lay perceptions of risk of HIV infection and the social construction of safer sex: some experiences from Kenya. Nzioka C. **AIDS Care** 1996 Oct;8(5):565–79
Developing a cost–effective media campaign addressing unprotected anal sex among gay men. Dawson C, et al. **AIDS Educ Prev** 1996 Aug;8(4):285–93
The Safe Dates Project: theoretical basis, evaluation design, and selected baseline findings. Foshee VA, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):39–47
Components of the working well trial intervention associated with adoption of healthful diets. Patterson RE, et al. **Am J Prev Med** 1997 Jul–Aug;13(4):271–6
Prevention of youth violence: rationale and characteristics of 15 evaluation projects. Powell KE, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):3–12
Supporting Adolescents with Guidance and Employment (SAGE). Ringwalt CL, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):31–8
Community health promotion via local minority youth: a model for academic medical centers. Garfield R. **Am J Public Health** 1996 Oct;86(10):1475–7
Randomised controlled trial assessing the effectiveness of a booklet on the duration of breast feeding. Currò V, et al. **Arch Dis Child** 1997 Jun;76(6):500–3; Discussion 503–4
Effect of a public awareness campaign on the appropriateness of patient–initiated skin examination in general practice. Baade PD, et al. **Aust N Z J Public Health** 1996 Dec; 20(6):640–3
Promotion of mouthguards among amateur football players in Victoria. Jolly KA, et al. **Aust N Z J Public Health** 1996 Dec;20(6):630–9
Barriers to health promotion activities in public hospitals. Stanton WR, et al. **Aust N Z J Public Health** 1996 Oct; 20(5):500–4
Managing established coronary heart disease [editorial] Moher M, et al. **BMJ** 1997 Jul 12;315(7100):69–70
Effectiveness of antismoking telephone helpline: follow up survey. Platt S, et al. **BMJ** 1997 May 10;314(7091):1371–5
Promoting healthy exercise among older people in general practice: issues in designing and evaluating therapeutic interventions [see comments] Tai SS, et al. **Br J Gen Pract** 1997 Feb;47(415):119–22. Comment in: Br J Gen Pract 1997 May;47(418):328.
A systematic review of physical activity promotion strategies [see comments] Hillsdon M, et al. **Br J Sports Med** 1996 Jun;30(2):84–9. Comment in: Br J Sports Med 1996 Sep;30(3):268–9.
Evaluation of a four–year bicycle helmet promotion campaign in Quebec aimed at children ages 8 to 12: impact on attitudes, norms and behaviours. Farley C, et al. **Can J Public Health** 1997 Jan–Feb;88(1):62–6
The case for dissemination research in health promotion and disease prevention. Farquhar JW. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S44–9
Facilitating the shift to population–based public health programs: innovation through the use of framework and logic model tools. Moyer A, et al. **Can J Public Health** 1997 Mar–Apr;88(2):95–8
Promoting heart health promotion. Schabas R. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S54–6
MDs seen as key players in move to encourage active living in Canada. Baer N. **Can Med Assoc J** 1997 Jun 1; 156(11):1605–8
In Hong Kong, smokers are butting out in record numbers. Brooks JR. **Can Med Assoc J** 1997 May 15;156(10):1441–3
School–based health promotion: the physician as advocate. Mackie JW, et al. **Can Med Assoc J** 1997 May 1; 156(9):1301–5 (36 ref.)
The effect of patient and physician reminders on use of screening mammography in a health maintenance organization. Results of a randomized controlled trial. Burack RC, et al. **Cancer** 1996 Oct 15;78(8):1708–21
Using participatory action research to understand the meanings aboriginal Canadians attribute to the rising incidence of diabetes. Boston P, et al. **Chronic Dis Can** 1997;18(1):5–12
How to implement physical activity in primary and secondary prevention. A statement for healthcare–professionals from the Task Force on Risk–reduction, American Heart Association. Fletcher GF. **Circulation** 1997 Jul 1;96(1):355–7
Understanding and enhancing compliance with the second dose of hepatitis B vaccine: a cohort analysis and a randomized controlled trial. Sellors J, et al. **CMAJ** 1997 Jul 15;157(2):143–8
The role of the pediatrician in smoking prevention. Sockrider MM. **Curr Opin Pediatr** 1997 Jun;9(3):225–9 (39 ref.)
The feasibility of automated voice messaging as an adjunct to diabetes outpatient care. Piette JD, et al. **Diabetes Care** 1997 Jan;20(1):15–21
AIDS turnaround: first remedy the adverse effects of the condom policy [letter] Gjorgov AN. **Eur J Cancer Prev** 1997 Feb;6(1):96–9
Nutrition promotion and dietary change at off–shore oil installations in the Norwegian sector of the North Sea. Oshaug A, et al. **Eur J Clin Nutr** 1995 Dec;49(12):883–96
Prevention in practice: results of a 2–year follow–up of routine health promotion interventions in general practice. Dowell AC, et al. **Fam Pract** 1996 Aug;13(4):357–62
Health education and promotion for STD prevention: lessons for the next millennium. Darrow WW. **Genitourin Med** 1997 Apr;73(2):88–94 (86 ref.)
Using behavioral theory in computer–based health promotion and appraisal. Rhodes F, et al. **Health Educ Behav** 1997 Feb;24(1):20–34
Using an interactive computer game to increase skill and self–efficacy regarding safer sex negotiation: field test results. Thomas R, et al. **Health Educ Behav** 1997 Feb; 24(1):71–86
Increasing condom use: evaluation of a theory–based intervention to prevent sexually transmitted diseases in young women. Bryan AD, et al. **Health Psychol** 1996 Sep; 15(5):371–82
Reaching smokers with lower educational attainment. Millar WJ. **Health Rep** 1996 Autumn;8(2):11–9(Eng); 13–22(Fre) **(Eng, Fre)**
Baby Friendly Hospital Initiative: the Kerala experience [editorial] Thomas K. **Indian Pediatr** 1997 Feb;34(2):95–7
The Connecticut Childhood Injury Prevention Center––the first six years. Banco L, et al. **Inj Prev** 1997 Jun;3(2):146–7
Psychiatric interventions for prevention of mental disorders. A psychosocial perspective. Dalgard OS, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):604–17 (24 ref.)
The nurse's role in creating "youth friendly" health services. **Int Nurs Rev** 1997 May–Jun;44(3):73–5
Promoting autonomy and independence for older people within nursing practice: a literature review. Davies S, et al. **J Adv Nurs** 1997 Aug;26(2):408–17 (89 ref.)
Physician health promotion training activities in primary care: a survey of the military residencies. Jonas WB. **J Am Board Fam Pract** 1997 Mar–Apr;10(2):104–10
Know your numbers: comparing participants and nonparticipants in a university health screening program. Perryman SJ, et al. **J Am Coll Health** 1997 Sep;46(2):87–91
Cancer–risk–related health behaviors and attitudes of older workers. Working Well Research Group. Kinne S, et al. **J Cancer Educ** 1996 Summer;11(2):89–95
Promoting wellness in individuals with coronary heart disease. Fleury J, et al. **J Cardiovasc Nurs** 1997 Apr; 11(3):26–42
Cultural consideration in promoting wellness. Keller CS, et al. **J Cardiovasc Nurs** 1997 Apr;11(3):15–25 (54 ref.)
Mind–body fitness: encouraging prospects for primary and secondary prevention. La Forge R. **J Cardiovasc Nurs** 1997 Apr;11(3):53–65 (55 ref.)
Individual and community models for promoting wellness. Murdaugh CL, et al. **J Cardiovasc Nurs** 1997 Apr; 11(3):1–14
Developing and evaluating a Spanish TEL–MED message on breast cancer. Ward B, et al. **J Community Health** 1997 Apr;22(2):127–35
Using focus group methodology to develop breast cancer screening programs that recruit African American women. Williams GA, et al. **J Community Health** 1997 Feb; 22(1):45–56
Teaching nutrition education in adult learning centers: linking literacy, health care, and the community. Murphy PW, et al. **J Community Health Nurs** 1996;13(3):149–58
Validation of a short telephone administered questionnaire to evaluate dietary interventions in low income communities in Montreal, Canada. Gray–Donald K, et al. **J Epidemiol Community Health** 1997 Jun;51(3):326–31
Patient–initiated prevention discussions. Two interventions to stimulate patients to initiate prevention discussions. Sander RW, et al. **J Fam Pract** 1996 Nov;43(5):468–74
Medically serious suicide attempts in a jail with a suicide–prevention program. Farmer KA, et al. **J Forensic Sci** 1996 Mar;41(2):240–6
Faith–based health needs assessment: implications for empowerment of the Faith community. Cook C. **J Health Care Poor Underserved** 1997 Aug;8(3):300–1; discussion 302
Stroke Belt initiative: the Tennessee experience. Okwumabua JO, et al. **J Health Care Poor Underserved** 1997 Aug; 8(3):292–9
Preventing sexually transmitted diseases through individual– and population–based public health approaches: social and political implications. Decosas J, et al. **J Infect Dis** 1996 Oct;174 Suppl 2:S248–52
Limiting access to tobacco products [editorial] Lockey MW. **J Miss State Med Assoc** 1997 Apr;38(4):133–4
Promotion of mental health through coaching competitive sports. Bell CC. **J Natl Med Assoc** 1997 Aug;89(8):517–20
Health promotion using television in hospital waiting rooms: the Adelaide Children's Parent Education Project. Cockington RA. **J Paediatr Child Health** 1995 Dec; 31(6):523–6
Mental health promotion for young people: a proposal for a tripartite approach. Sawyer MG, et al. **J Paediatr Child Health** 1996 Oct;32(5):368–70
Health promotion and injury prevention in a child development center. Ulione MS. **J Pediatr Nurs** 1997 Jun; 12(3):148–54
Putting prevention into practice. Rains JW, et al. **J Prof Nurs** 1997 Mar–Apr;13(2):124–8
Development of a school–based drug abuse prevention curriculum for high–risk youths. Sussman S. **J Psychoactive Drugs** 1996 Apr–Jun;28(2):169–82
Tobacco control programmes for universities: a feasibility study. Willcox ML. **J Public Health Med** 1997 Mar; 19(1):37–44
Social marketing: a tool not a solution. Montazeri A. **J R Soc Health** 1997 Apr;117(2):115–8
Effects of mail–mediated, stage–matched exercise behavior change strategies on female adults' leisure–time exercise behavior. Cardinal BJ, et al. **J Sports Med Phys Fitness** 1996 Jun;36(2):100–7
Immunization carnivals for the hard–to–reach. Brown SG, et al. **MCN Am J Matern Child Nurs** 1996 Mar–Apr; 21(2):100–3
Health promotion teaching in preschools. Cagle CS, et al. **MCN Am J Matern Child Nurs** 1996 Mar–Apr;21(2):96–9
Promoting screening mammography in inner–city settings. The sustained effectiveness of computerized reminders in a randomized controlled trial. Burack RC, et al. **Med Care** 1997 Sep;35(9):921–31
A new recommendation for physical activity as a means of health promotion. Burns KJ. **Nurse Pract** 1996 Sep;21(9):18, 21–2, 26–8 (25 ref.)
Healthy eating in schools and "eating disorders"—are "healthy eating" messages part of the problem or part of the solution? Dixey R. **Nutr Health** 1996;11(1):49–58
Results of a community–based campaign to reduce fat intake. Van Wechem SN, et al. **Nutr Health** 1997;11(3):207–18
Limiting diisocyanate exposure. Anderson DO. **Occup Health Saf** 1997 Jan;66(1):52, 54
Methods to persuade higher management to invest in health promotion programmes in the workplace. Muto T, et al. **Occup Med (Oxf)** 1997 May;47(4):210–6
Asking age and identification may decrease minors' access to tobacco. Landrine H, et al. **Prev Med** 1996 May–Jun; 25(3):301–6
A health promotion approach to adolescent sexual and reproductive health: a discussion of intervention targets and problem focus. Nyamwaya D. **Promot Educ** 1996 Sep; 3(3):18–21, 46
A framework for developing health promotion and education initiatives in reproductive health. Rice M. **Promot Educ** 1996 Sep;3(3):7–10, 45
How to move towards evidence–based health promotion interventions. Ziglio E. **Promot Educ** 1997 Jun;4(2):29–33
Prevention of the common mental disorders: a public health perspective [editorial] Weich S. **Psychol Med** 1997 Jul; 27(4):757–64
The impact of heart health promotion on coronary heart disease lifestyle risk factors in schoolchildren: lessons learnt from a community–based project. Baxter AP, et al. **Public Health** 1997 Jul;111(4):231–7
Ten years of experiences from a participatory community–based injury prevention program in Motala, Sweden. Lindqvist K, et al. **Public Health** 1996 Nov; 110(6):339–46
Developing community networks to deliver HIV prevention interventions. Guenther–Grey C, et al. **Public Health Rep** 1996;111 Suppl 1:41–9
Using formative research to lay the foundation for community level HIV prevention efforts: an example from the AIDS Community Demonstration Projects. Higgins DL, et al. **Public Health Rep** 1996;111 Suppl 1:28–35
The use of theory based semistructured elicitation questionnaires: formative research for CDC's Prevention Marketing Initiative. Middlestadt SE, et al. **Public Health Rep** 1996;111 Suppl 1:18–27
Building a peer network for a community level HIV prevention program among injecting drug users in Denver. Simons PZ, et al. **Public Health Rep** 1996;111 Suppl 1:50–3
Evaluating community radio as a medium for health messages in Alexandra [letter] Daviaud E, et al. **S Afr Med J** 1997 Aug;87(8):1022
Primary health care promotion––from whom can we learn? [editorial] Walker AR, et al. **S Afr Med J** 1996 Sep; 86(9):1075–6
Child development and long–term outcomes: a population health perspective and summary of successful interventions. Hertzman C, et al. **Soc Sci Med** 1996 Oct;43(7):1083–95 (84 ref.)
Measuring the effect of a hygiene behaviour intervention by indicators of behaviour and diarrhoeal disease. Pinfold JV, et al. **Trans R Soc Trop Med Hyg** 1996 Jul–Aug; 90(4):366–71
Public health strategies to reduce tobacco–related illnesses and deaths in Milwaukee County. **Wis Med J** 1996 Nov; 95(11):794–810
Making health messages interesting. Gebreel AO, et al. **World Health Forum** 1997;18(1):32–4
The theatre: an effective tool for health promotion. Seguin A, et al. **World Health Forum** 1996;17(1):64–9
[Health in the third age. Preventing handicaps related to aging] Svanborg A, et al. **J Med Liban** 1995;43(2):102–6 (13 ref.) **(Fre)**
[Health promotion in the 2nd half of life. A modular concept for public health insurance patients: the preventive program "healthy aging"] Walter U, et al. **Z Arztl Fortbild (Jena)** 1996 Oct;90(6):545–51 (Eng. Abstr.) **(Ger)**
[Methodological problems in preserving the health of servicemen] Zhiliaev EG, et al. **Voen Med Zh** 1996 Oct; 317(10):7–11 **(Rus)**
[How should smoking sensitization campaigns be conducted at health institutions?] Jiménez Ruiz CA. **Rev Clin Esp** 1996 Jun;196(6):392–4 **(Spa)**

ORGANIZATION & ADMINISTRATION

New models of health care in the home and in the work site. Meurer LN, et al. **Am Fam Physician** 1997 Aug;

56(2):384–6, 389

Wellness for nurses, by nurses. Extended Services Team at the Visiting Nurse Association of Northern Virginia. **Am J Nurs** 1997 May;97(5):67–8

Building relationships and resilience in the prevention of youth violence. Gabriel RM, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):48–55

Violence prevention is as American as apple pie. Satcher D, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):v–vi

Evaluation of a national health promotion program in South Australia. Baum F, et al. **Aust N Z J Public Health** 1996 Feb;20(1):41–9

Towards a research strategy to support public health programs for behaviour change. Redman S. **Aust N Z J Public Health** 1996 Aug;20(4):352–8 (38 ref.)

Oral health week. Desmond J, et al. **Br Dent J** 1996 Nov 23;181(10):357–8

Promoting the Health of the Nation. Langlands A. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):171–2

Declaration of the Americas on diabetes [see comments] **Bull Pan Am Health Organ** 1996 Sep;30(3):263–5. Comment in: Bull Pan Am Health Organ 1996 Sep;30(3):261–2.

Diabetes––a declaration for the Americas [editorial; comment] Alleyne G. **Bull Pan Am Health Organ** 1996 Sep;30(3):261–2. Comment on: Bull Pan Am Health Organ 1996 Sep;30(3):263–5.

Our strength for tomorrow: valuing our children. Part 1: Consultations. Report of the CFPC's Task Force on Child Health. **Can Fam Physician** 1997 Aug;43:1409–16 **(Eng, Fre)**

Reform of well-baby services [editorial] Edouard L. **Can Fam Physician** 1997 Jul;43:1195–6, 1199–200 **(Eng, Fre)**

Active living: just a passing fad? Bercovitz KL, et al. **Can J Public Health** 1996 Jul–Aug;87(4):275–9

Action Statement for Health Promotion in Canada. Dafoe GH. **Can J Public Health** 1996 Jul–Aug;87(4):220 **(Eng, Fre)**

Changes in women's breast cancer screening practices, knowledge, and attitudes in Ottawa–Carleton since 1991. De Grasse CE, et al. **Can J Public Health** 1996 Sep–Oct; 87(5):333–8

Smoking status of chronic hospital patients: implications for health promotion programs. Hirdes JP, et al. **Can J Public Health** 1996 Sep–Oct;87(5):317–8

Is a health promotion campaign successful in retail pharmacies? Leinweber CE, et al. **Can J Public Health** 1995 Nov–Dec;86(6):380–3

Childhood injury prevention [letter; comment] Tonkin RS. **Can Med Assoc J** 1997 Feb 15;156(4):479–80. Comment on: Can Med Assoc J 1996 Nov 15;155(10):1429–31.

Building community capacity to promote social and public health: challenges for universities [editorial] Poole DL. **Health Soc Work** 1997 Aug;22(3):163–70 (48 ref.)

Status of health promotion program implementation and future tasks in Japanese companies [published erratum appears in Ind Health 1996;34(3):293] Muto T, et al. **Ind Health** 1996;34(2):101–11

The Childhood Injury Prevention and Promotion of Safety Programme (CHIPPS). Towner E, et al. **Inj Prev** 1997 Mar; 3(1):67–8

WHO global project on biological monitoring of chemical exposure at the workplace. Mikheev MI, et al. **Int Arch Occup Environ Health** 1996;68(6):387–8

Initiating health programmes in schools and communities. **Int Nurs Rev** 1997 May–Jun;44(3):76–8 (8 ref.)

Coronary disease risk factor reduction and behavior modification in minority adolescents: the PATH program. Fardy PS, et al. **J Adolesc Health** 1996 Apr;18(4):247–53

A peer approach to high risk youth. Hritz SA, et al. **J Adolesc Health** 1997 Apr;20(4):259–60

Sexual health promotion and nursing. Irwin R. **J Adv Nurs** 1997 Jan;25(1):170–7 (110 ref.)

Progress in prevention [editorial; comment] Robinson BE. **J Am Geriatr Soc** 1996 Nov;44(11):1399. Comment on: J Am Geriatr Soc 1996 Nov;44(11):1394–8.

The physician and pharmacist team. An effective approach to cholesterol reduction. Bogden PE, et al. **J Gen Intern Med** 1997 Mar;12(3):158–64

Cardiovascular risk factor screening and intervention in African American adults. Anderson JT, et al. **J Health Care Poor Underserved** 1997 Aug;8(3):322–44

New insights and interventions: churches uniting to reach the African American community with health information. Sanders EC 2nd. **J Health Care Poor Underserved** 1997 Aug;8(3):373–5; discussion 375–6

Logics and logistics of community intervention against osteoporosis: an evidence basis. Waller J, et al. **J Med Syst** 1997 Feb;21(1):33–47

Student/faculty practice and research in occupational health: health promotion and outcome evaluation. Wold JL, et al. **J Nurs Educ** 1996 Sep;35(6):252–7

Health care in the 1990s: changes in health care delivery models for survival. Bendell A. **J Obstet Gynecol Neonatal Nurs** 1997 Mar–Apr;26(2):212–6

Toward an integrative science of women's health. Walker LO, et al. **J Obstet Gynecol Neonatal Nurs** 1996 Jun; 25(5):379–82 (33 ref.)

Royal Society of Health Research update. **J R Soc Health** 1996 Aug;116(4):240

Guidelines for school and community programs to promote lifelong physical activity among young people. National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and prevention. **J Sch Health** 1997 Aug;67(6):202–19 (276 ref.)

Guidelines for school health programs to promote lifelong healthy eating. **J Sch Health** 1997 Jan;67(1):9–26 (229 ref.)

Peer-planned social activities for preventing alcohol use among young adolescents. Komro KA, et al. **J Sch Health** 1996 Nov;66(9):328–34

Use of the Healthy School Profile in the Middlesex–London, Ontario, Schools. Mitchell I, et al. **J Sch Health** 1997 Apr; 67(4):154–6

Uncertainty considerations in group decisions: staffing and ratesetting in a health promotion center. Hatcher ME. **J Soc Health Syst** 1997;5(3):31–42

Perinatal effects of a pregnancy wellness program in the workplace. Walden CM, et al. **MCN Am J Matern Child Nurs** 1996 Nov–Dec; 21(6):288–93

Patience, trust build strong coalitions. Physicians help to establish healthy communities. Bouffard K. **Mich Med** 1997 Jun;96(6):22–6

Physician activism. You can help Stop America's Violence Everywhere. Gregory J. **Mich Med** 1996 Sep;95(9):34

Promoting healthy communities through neighborhood nursing. Reinhard SC, et al. **Nurs Outlook** 1996 Sep–Oct; 44(5):223–8

Tactics against workplace hearing loss motivate employees to wear protection. DeJoy DM. **Occup Health Saf** 1994 Mar;63(3):50–4

Occupational health nursing in the pharmaceutical industry. Campbell KN, et al. **Occup Med** 1997 Jan–Mar;12(1):169–78 (29 ref.)

Promotion of children's early psychosocial development through primary health care services. Tsiantis J, et al. **Paediatr Perinat Epidemiol** 1996 Jul;10(3):339–54

Improving school breakfasts: effects of the CATCH Eat Smart Program on the nutrient content of school breakfasts. Dwyer JT, et al. **Prev Med** 1996 Jul–Aug;25(4):413–22

The effects of the Child and Adolescent Trial for Cardiovascular Health upon psychosocial determinants of diet and physical activity behavior. Edmundson E, et al. **Prev Med** 1996 Jul–Aug;25(4):442–54

Tobacco use measurement, prediction, and intervention in elementary schools in four states: the CATCH Study. Elder JP, et al. **Prev Med** 1996 Jul–Aug;25(4):486–94

Promoting worksite smoking control policies and actions: the Community Intervention Trial for Smoking Cessation (COMMIT) experience. The COMMIT Research Group. Glasgow RE, et al. **Prev Med** 1996 Mar–Apr;25(2):186–94

Changes in nutrient intakes of elementary school children following a school-based intervention: results from the CATCH Study. Lytle LA, et al. **Prev Med** 1996 Jul–Aug; 25(4):465–77

School physical education: effect of the Child and Adolescent Trial for Cardiovascular Health. McKenzie TL, et al. **Prev Med** 1996 Jul–Aug;25(4):423–31

The effect of adult participation in a school-based family intervention to improve Children's diet and physical activity: the Child and Adolescent Trial for Cardiovascular Health. Nader PR, et al. **Prev Med** 1996 Jul–Aug; 25(4):455–64

Impact of fat reduction on micronutrient density of children's diets: the CATCH Study. Nicklas TA, et al. **Prev Med** 1996 Jul–Aug;25(4):478–85

Changes in the nutrient content of school lunches: results from the CATCH Eat Smart Food service Intervention. Osganian SK, et al. **Prev Med** 1996 Jul–Aug;25(4):400–12

Advances and future directions for school-based health promotion research: commentary on the CATCH intervention Trial. Resnicow K, et al. **Prev Med** 1996 Jul–Aug;25(4):378–83

Operational design and quality control in the CATCH multicenter Trial. Stone EJ, et al. **Prev Med** 1996 Jul–Aug; 25(4):384–99

Cardiovascular risk factors among children after a 2 1/2-year intervention–The CATCH Study. Webber LS, et al. **Prev Med** 1996 Jul–Aug;25(4):432–41

Clinical assessment in primary care: professional cooperation. Reid V. **Proc Nutr Soc** 1996 Jul;55(2):679–88 (17 ref.)

The organisation of health promotion and education in Italy. Bertinato L, et al. **Promot Educ** 1997 Jun;4(2):19–22

Community as the focus for health and health changes. Kickbusch I, et al. **Promot Educ** 1995 Dec;2(4):17–20

Where needs and demands diverge: health promotion in primary care. Davis BS, et al. **Public Health** 1996 Mar; 110(2):95–101

Empowerment strategies in nursing education: a foundation for population-focused clinical studies. Duncan SM. **Public Health Nurs** 1996 Oct;13(5):311–7

The Sonda Project: prevention, prediction, and psychological disorder. Buscema M. **Subst Use Misuse** 1997 Jul; 32(9):1053–153 (315 ref.)

Who misses out with school-based health programmes? a study of schistosomiasis control in Egypt. Husein MH, et al. **Trans R Soc Trop Med Hyg** 1996 Jul–Aug;90(4):362–65

"It ain't what you do; it's the way that you do it". Beerling A. **WHO Reg Publ Eur Ser** 1997;74:191–206 (7 ref.)

The role of nursing in primary health care. Campbell S. **WHO Reg Publ Eur Ser** 1997;74:209–39 (59 ref.)

Nursing up to and beyond the year 2000. Robinson J, et al. **WHO Reg Publ Eur Ser** 1997;74:127–44 (22 ref.)

Health and society in times of change. Deppe HU. **World Health Forum** 1996;17(2):194–6

Please use the health services––more and more. Srivastava RK, et al. **World Health Forum** 1996;17(2):165–8

[Study of immunization promotion against influenza in nursing homes and long term care facilities in Quebec] De Wals P, et al. **Can J Public Health** 1996 Sep–Oct; 87(5):305–7 (Eng. Abstr.) **(Fre)**

[Health promotion at the workplace––selected questions on implementation] Korzeniowska E, et al. **Med Pr** 1996; 47(5):429–36 (Eng. Abstr.) **(Pol)**

[Breast feeding promotion program implementation: 1992–1994] Mikiel-Kostyra K. **Pediatr Pol** 1996 Jan; 71(1):65–7 (10 ref.) **(Pol)**

[The place and role of health promotion in oncology] Rytwiński K. **Rocz Panstw Zakl Hig** 1996;47(4):431–7 (Eng. Abstr.) **(Pol)**

[Administration of the "Healthy School" project] Bjegović V, et al. **Srp Arh Celok Lek** 1996 Jul–Aug;124(7–8):184–9 (Eng. Abstr.) **(Scc)**

STANDARDS

GAPS (AMA Guidelines for Adolescent Preventive Services) [letter] Copperman S. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):957–8

The search for evidence of effective health promotion. Speller V, et al. **BMJ** 1997 Aug 9;315(7104):361–3

Childhood injury prevention [letter; comment] Wing PC, et al. **Can Med Assoc J** 1997 Feb 15;156(4):480–1. Comment on: Can Med Assoc J 1996 Nov 15;155(10):1429–31.

An evaluation of the results of media and educational campaigns designed to shorten the time taken by patients with acute myocardial infarction to decide to go to hospital. Blohm MB, et al. **Heart** 1996 Nov;76(5):430–4

Undergraduate nursing students' health promotion counselling self-efficacy. Laschinger HK. **J Adv Nurs** 1996 Jul;24(1):36–41

Position of the American Dietetic Association: promotion of breast-feeding [see comments] **J Am Diet Assoc** 1997 Jun;97(6):662–6 (44 ref.). Comment in: J Am Diet Assoc 1997 Jun;97(6):591–2.

Superintendents' perceptions of schoolsite health promotion in Missouri. Cox CC, et al. **J Sch Health** 1997 Feb; 67(2):50–5

Guidelines for school and community programs to promote lifelong physical activity among young people. Centers for Disease Control and Prevention. **MMWR Morb Mortal Wkly Rep** 1997 Mar 7; 46(RR–6):1–36

Long-term responses of higher and lower risk youths to smoking prevention interventions. Flynn BS, et al. **Prev Med** 1997 May–Jun;26(3):389–94

Analysis of a multicomponent smoking cessation project: what worked and why. Resnicow K, et al. **Prev Med** 1997 May–Jun;26(3):373–81

Increasing cancer screening: a meta-analysis. Snell JL, et al. **Prev Med** 1996 Nov–Dec;25(6):702–7

Quality indicators and health promotion effectiveness. Macdonald G. **Promot Educ** 1997 Jun;4(2):5–9

Continuous quality improvement in health promotion: some preliminary thoughts from Canada. Rootman I. **Promot Educ** 1997 Jun;4(2):23–5

Quality revisited. Saan H. **Promot Educ** 1997 Jun;4(2):34–5

Monitoring the planning quality of health promotion projects in Flanders. Van den Broucke S, et al. **Promot Educ** 1997 Jun;4(2):26–8

Understanding the variability in the effectiveness of community heart health programs: a meta-analysis. Sellers DE, et al. **Soc Sci Med** 1997 May;44(9):1325–39

Women's HIV risk reduction efforts and traditional models of health behavior: a review and critique. Gillespie CC. **Womens Health** 1997 Spring;3(1):1–30 (123 ref.)

Qualitative assessment of community participation in health promotion activities. Nakamura Y, et al. **World Health Forum** 1996;17(4):415–7

STATISTICS & NUMERICAL DATA

Correlates of compliance with measurement protocols in a Latino nutrition-intervention study. Frack SA, et al. **Am J Prev Med** 1997 Mar–Apr;13(2):131–6

Condom availability programs in U.S. schools. Kirby DB, et al. **Fam Plann Perspect** 1996 Sep–Oct;28(5):196–202

Prevalence of risk factors for SIDS [letter] Callaghan A, et al. **J Paediatr Child Health** 1996 Oct;32(5):469–70

Mid-course review: healthy Rhode Islanders 2000. Hesser JE, et al. **Med Health R I** 1996 Sep;79(9):339–40

Correlates of physician counseling associated with obesity and smoking. Heywood A, et al. **Prev Med** 1996 May–Jun; 25(3):268–76

Work-related interventions during office visits to occupational health physicians. Räsänen K, et al. **Prev Med** 1997 May–Jun;26(3):333–9

Development of the health-promotion activities of older adults measure. Padula CA. **Public Health Nurs** 1997 Apr; 14(2):123–8

Expanded programme on immunization (EPI). Progress towards measles elimination. **Wkly Epidemiol Rec** 1997 Jul 25;72(30):223–6 **(Eng, Fre)**

TRENDS

Tobacco use in rural Alaska and the trampling tobacco project. Beltz DN. **Alaska Med** 1996 Jan–Mar;38(1):24–5

The Health of the Nation [editorial] Calman K. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):125–6

Re: Psychiatric practice for the coming decade [letter; comment] Kutcher S. **Can J Psychiatry** 1996 Sep; 41(7):482–3. Comment on: Can J Psychiatry 1996 Apr;41(3):156–60.

The use and abuse of participatory action research [editorial] Hagey RS. **Chronic Dis Can** 1997;18(1):1–4

Employers ... about 25 percent of American companies currently have employee wellness programs [news] [published erratum appears in Hosp Health Netw 1996 Dec 5;70(23):8] **Hosp Health Netw** 1996 Nov 5;70(21):16, 18

Public health ... senior citizens are turning to exercise faster than any other adult group [news] **Hosp Health Netw** 1996 Oct 5;70(19):14

A conversation with Ronald M. Davis, M.D. [interview by Bob Carlson] Carlson B. **Indiana Med** 1996 Mar–Apr; 89(2):121–4

Promoting health and preventing disease: an international perspective on youth health promotion. Nutbeam D. **J Adolesc Health** 1997 May;20(5):396–402

Breastfeeding in Arkansas: the role of the Arkansas Department of Health. Webb MO, et al. **J Ark Med Soc** 1996 Sep;93(4):185–7

Health promotion across the continuum: challenges for the future of cardiovascular nursing [see comments] Fleury J, et al. **J Cardiovasc Nurs** 1996 Oct;11(1):14–26. Comment in: J Cardiovasc Nurs 1996 Oct;11(1):v–vii.

Health promotion—its relationship to health education and its implications. MacDonald TH. **J R Soc Health** 1996 Aug; 116(4):219–22 (48 ref.)

Breastfeeding promotion—a community consortium approach. Fleming J, et al. **J Tenn Med Assoc** 1996 Apr; 89(4):126, 128

Building bright oral health futures [editorial] Sumaya CV. **Pediatr Dent** 1997 May;19(3):167

The future of population strategies in prevention: drugs for all? Hemminki E. **Scand J Soc Med** 1995 Dec;23(4):225–6

Trends in prevalence and acceptance of workplace smoking bans among indoor workers in South Australia. Wakefield M, et al. **Tob Control** 1996 Autumn;5(3):205–8

[Therapy of hypertension between claims and reality] Scholze J, et al. **Fortschr Med** 1996 Nov 20;114(32):26–8 **(Ger)**

[Trends in alcohol consumption and predictors for increased alcohol consumption in former East Germany—analysis of the 1st and 2nd stages of the German Cardiovascular Prevention Study] Bloomfield K, et al. **Gesundheitswesen** 1997 Apr;59(4):283–8 (Eng. Abstr.) **(Ger)**

[Health promotion in the work environment—old and new challenges for public health] Hacker W, et al. **Gesundheitswesen** 1996 Sep;58 Suppl 2:152–4 (Eng. Abstr.) **(Ger)**

[Health promotion in Germany 10 years after the Ottawa Charter—exemplified by prevention of smoking] Luber E. **Gesundheitswesen** 1997 Jun;59(6):387–90 (Eng. Abstr.) **(Ger)**

[Health promotion by the public health service—problem areas and perspectives] Müller P. **Gesundheitswesen** 1997 Apr;59(4):279–82 (Eng. Abstr.) **(Ger)**

[Prevention and health promotion: a responsibility of social medicine?] Waller H, et al. **Gesundheitswesen** 1996 Oct;58 Suppl 3:169–73 **(Ger)**

[CINDI (Countrywide Integrated Noncommunicable Diseases Intervention) in Germany. A model for life style oriented, medical primary care for the population] Fürniss W, et al. **Z Arztl Fortbild (Jena)** 1996 Jun;90(4):339–46 (Eng. Abstr.) **(Ger)**

[Recommendations for medical methods and instruments for health promotion and prevention of disease] Ollenschläger G, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):875–8 **(Ger)**

[Healthy life style. Perspectives of prevention in modern society] Raspe H. **Z Arztl Fortbild (Jena)** 1997 Jan; 90(8):741–6 (Eng. Abstr.) **(Ger)**

[Development of a health promotion program for the target group "elderly people"] Walter U, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):839–46 (46 ref.) (Eng. Abstr.) **(Ger)**

[The Program of Preventive Activities and Health Promotion. Quo vadis? (editorial)] Buitrago F. **Aten Primaria** 1997 Jan;19(1):4–6 **(Spa)**

[Health promotion facing the crisis in modern medicine (letter)] Rodríguez Martín A, et al. **Aten Primaria** 1997 May 31;19(9):496, 498 **(Spa)**

UTILIZATION

Physical activity promotion through primary health care in England. Fox K, et al. **Br J Gen Pract** 1997 Jun; 47(419):367–9

Health promotion and screening services reported by older adult patients of urban primary care physicians. Love RR, et al. **J Fam Pract** 1997 Aug;45(2):142–50

Women who work in manufacturing settings: factors influencing their participation in worksite health promotion programs. Emmons KM, et al. **Womens Health Issues** 1996 Mar–Apr;6(2):74–81

HEALTH PSYCHOLOGY see **BEHAVIORAL MEDICINE**

HEALTH RECORDS, PERSONAL see **MEDICAL RECORDS**

HEALTH RESORTS

Prolonged effects of 3 week therapy in a spa resort on lumbar spine, knee and hip osteoarthritis: follow-up after 6 months. A randomized controlled trial. Nguyen M, et al. **Br J Rheumatol** 1997 Jan;36(1):77–81

Indications, contraindications and possible side-effects of climatotherapy at the Dead-Sea. Shani J, et al. **Int J Dermatol** 1997 Jul;36(7):481–92 (47 ref.)

Influence of health resort treatment on insulin and C-peptide concentration in girls with insulin-dependent diabetes. Bonikowska-Zgainska M. **Mater Med Pol** 1996 Oct–Dec; 28(4):115–31

Molecular determination of infection source of a sporadic Legionella pneumonia case associated with a hot spring bath. Miyamoto H, et al. **Microbiol Immunol** 1997; 41(3):197–202

[Hydrotherapy in thermal facilities in Belgium] Juchmes J, et al. **J Belge Med Phys Rehabil** 1980;3(1):33–45 **(Fre)**

[Gastroenterologic and hepatologic rehabilitation today—on changes in indications and contents] Zillessen E. **Z Arztl Fortbild (Jena)** 1996 Oct;90(6):487–93 (19 ref.) (Eng. Abstr.) **(Ger)**

[Comparative study of adaptation of school children from regions with radiation pollution and from Moscow to conditions of rest at Artek, a health center] Rybakov VP, et al. **Gig Sanit** 1996 Nov–Dec;(6):35–6 **(Rus)**

[The effect of the noise factor on patients with cardiovascular diseases at a sanatorium] Svidovyĭ VI, et al. **Gig Sanit** 1997 Mar–Apr;(2):43–5 **(Rus)**

[Changes in cardiovascular function of ischemic heart disease patients on the course of rehabilitation at low-mountain health resort after surgical revascularization of myocardium] Amiiants VI, et al. **Klin Med (Mosk)** 1997; 75(2):26–8 (Eng. Abstr.) **(Rus)**

[Sanatorium rehabilitation of cardiosurgical patients] Kosov VA, et al. **Klin Med (Mosk)** 1997;75(8):40–4 (Eng. Abstr.) **(Rus)**

[Principles of the differentiated use of the natural and preformed therapeutic factors of a health resort in patients with chronic pancreatitis] Orlov OB. **Lik Sprava** 1996 Oct–Dec;(10–12):126–8 (Eng. Abstr.) **(Rus)**

[Experience with the early health resort rehabilitation of patients who have undergone a surgical intervention for peptic ulcer] Sapa AI, et al. **Lik Sprava** 1996 Jul–Sep; (7–9):118–21 (Eng. Abstr.) **(Rus)**

[Validation of the early health-resort rehabilitation of patients who have undergone a cholecystectomy] Serebrina LA, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):67–71 (Eng. Abstr.) **(Rus)**

[Eosinophilic reactions in bronchial asthma patients and the possibilities to neutralize them under sanatorium treatment] Zorin VN, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):132–5 (Eng. Abstr.) **(Rus)**

[On the scientific substantiation of specialization of family physicians practising at the resorts] Vinokurov BL, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jan–Feb;(1):43–7 **(Rus)**

[The conceptual characteristics of developing family rest and physician activities at the sanatorium-health resort stage for the rehabilitation of different patient contingents] Vinokurov BL, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Nov–Dec;(6):33–8 **(Rus)**

[Middle molecules and tuberculosis activity in children and adolescents at the sanatorium stage of treatment] Lozovskaia ME, et al. **Probl Tuberk** 1996;(4):48–50 (Eng. Abstr.) **(Rus)**

[Experience in treating tuberculosis patients suffering from alcoholism at a sanatorium] Sysoev VD, et al. **Probl Tuberk** 1996;(4):56–7 **(Rus)**

[The characteristics of the adaptation to the hypoxic conditions at a low-altitude health resort in IHD patients after an aortocoronary bypass] Amiiants VIu. **Ter Arkh** 1996;68(9):52–4 (Eng. Abstr.) **(Rus)**

[The effect of rehabilitation by stages at a low-altitude health resort on the late results of the surgical treatment of ischemic heart disease] Amiiants VIu, et al. **Ter Arkh** 1997; 69(1):58–9 (Eng. Abstr.) **(Rus)**

[Gastric and duodenal mucosal function in peptic ulcer patients exposed to endoscopic laser therapy and sanatorium-health resort factors] Petrakova VS, et al. **Ter Arkh** 1997;69(2):13–6 (Eng. Abstr.) **(Rus)**

[The dynamic clinical manifestations of ischemic heart disease during the rehabilitation at a low-altitude health resort of patients who have undergone surgical myocardial revascularization] Amiiants VIu, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov–Dec;(6):7–9 (Eng. Abstr.) **(Rus)**

[Laser therapy in the combined health-resort treatment of children with the sequelae of a perinatal brain lesion] Babina LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):11–3 **(Rus)**

[Educational programs for hypertension patients and their realization under sanatorium-health resort conditions] Bezruchenko SV, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb;(1):40–2 **(Rus)**

[The use of the polymerase chain reaction (DNA diagnosis) in the diagnosis of urogenital infections at a health resort and its medical economic efficacy] Bochkarev EG, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):28–30 **(Rus)**

[An improvement in the functional structure of specialized sanatoria for disabled children with their parents] Bondar' VI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):35–8 **(Rus)**

[The validation of the optimal time periods for the rehabilitation of disabled children at the sanatorium-health resort stage] Bondar' VI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr; (2):44–6 **(Rus)**

[The climatic and recreational potential of the Far East seaside region] Derkacheva LN. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):31–3 **(Rus)**

[The use of multichannel electromyostimulation in the combined sanatorium-health resort treatment of children with the sequelae of birth-related brachial plexitis] Drinevskiĭ NP, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):13–5 **(Rus)**

[The laser-magnetic phoresis of ascorbic acid in the combined health-resort therapy of osteoarthrosis patients] Ibadova GD, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):17–9 (Eng. Abstr.) **(Rus)**

[Intravenous laser irradiation of the blood at the health-resort stage of treatment for bronchial asthma patients] Iusupalieva MM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):9–12 (Eng. Abstr.) **(Rus)**

[The evaluation of the physical work capacity of participants in the cleanup of the aftermath of the accident at the Chernobyl Atomic Electric Power Station during their rehabilitation at a health resort] Kazets AI, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May–Jun; (3):46–7 **(Rus)**

[Treatment by Schrott's method in the health resorts of Austria and Germany] Kiseleva IN, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb;(1):52–3 **(Rus)**

[Dry air–gas baths as a method of pathogenetic therapy in hypertension at the sanatorium stage] Kliachkin LM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Nov–Dec; (6):3–5 **(Rus)**

[The tasks of organizing and managing the monitoring of natural therapeutic resources and of medical health-promotion locales] Kulikov GV. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct; (5):39–40 **(Rus)**

[A new principle in the organization and functioning of the sanatorium institutions of a separately considered health-resort region] Lebedev VA. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):41–2 **(Rus)**

[The optimization of the duration of the sanatorium-health resort treatment of patients with neurological manifestations of spinal osteochondrosis (I)] Levitskiĭ EF, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct; (5):26–8 (Eng. Abstr.) **(Rus)**

[The duration of the sanatorium-health resort treatment of patients with neurological manifestations of spinal osteochondrosis] Levitskiĭ EF, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun; (3):17–9 (Eng. Abstr.) **(Rus)**

[The treatment of patients with peptic ulcer and primary chronic gastroduodenitis at Zheleznovodsk health resort] Nogaller AM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr; (2):18–22 **(Rus)**

[The dynamics of the immunological indices of children from regions around Chernobyl during health-resort treatment] Shvedunova LN, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):37–9 **(Rus)**

[The dynamics of the autonomic indices during the health resort treatment of children who live in areas contaminated by radiation] Shvedunova LN. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb;(1):34–5 **(Rus)**

[An integrated evaluation of the adaptation system and existing risk factors as a method for the objective assessment of the efficacy of sanatorium-health resort treatment] Treshutin VA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr; (2):30–4 **(Rus)**

[Hyperbaric oxygenation in the combined sanatorium rehabilitation of patients with corrected heart defects] Volkov VS, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr;(2):13–4 **(Rus)**

[Lars-Otto Dandenell, rehabilitation physician in Tranås: spas and thermal baths strengthen both body and soul] Landquist A. **Lakartidningen** 1997 Jun 25;94(26–27):2441–2 **(Swe)**

[The use of enterosorption under sanatorium-health resort conditions] Mariuk IV, et al. **Klin Khir** 1995;(1):45–6 **(Ukr)**

[The use of microwave resonance therapy in the health-resort treatment of peptic ulcer] Stetsenko HI, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):119–20 **(Ukr)**

HEALTH RESORTS

ECONOMICS

[Effectiveness of health resort therapy of medical patients] Krivobokov NG. **Klin Med (Mosk)** 1996;74(5):64–5 **(Rus)**

[The sanatorium–health resort service under market economy conditions] Krivobokov NG, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr;(2):28–30 **(Rus)**

[The creation of a legal–standards basis for the economic validation of nature–preserving activities in health resorts] Kulikov GV. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr;(2):27–8 **(Rus)**

HISTORY

The temple of health. A pictorial history of the Battle Creek Sanitarium. Gerstner P. **Caduceus** 1996 Autumn;12(2):1–99

Mineral water and spas in the United States. Benedetto AV, et al. **Clin Dermatol** 1996 Nov–Dec;14(6):583–600 (76 ref.)

"A health resort for consumptives": tuberculosis and immigration to New Zealand, 1880–1914. Bryder L. **Med Hist** 1996 Oct;40(4):453–71

[The 60th anniversary of Yevpatoriya as a model children's health resort] Drinevskii NP. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):49–51 **(Rus)**

LEGISLATION & JURISPRUDENCE

[New developments in standards and statutes legislation in the area of health resort medicine] Adilov VB, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun;(3):46–9 **(Rus)**

[The creation of a legal–standards basis for the economic validation of nature–preserving activities in health resorts] Kulikov GV. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr;(2):27–8 **(Rus)**

[The district for the alpine sanitary protection of natural medical resources, health–promotion sites and health resorts] Kulikov GV. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar–Apr;(2):48–9 **(Rus)**

STANDARDS

[New developments in standards and statutes legislation in the area of health resort medicine] Adilov VB, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun;(3):46–9 **(Rus)**

STATISTICS & NUMERICAL DATA

[Instead of vacation at shoal resort, a stay in the hospital––aspects of illness during vacation] Klewer I, et al. **Rehabilitation (Stuttg)** 1996 Aug;35(3):179–82 (Eng. Abstr.) **(Ger)**

[An inventory of natural therapeutic resources] Kulikov GV. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 May–Jun;(3):30 **(Rus)**

HEALTH RESOURCES

see related

HEALTH CARE RATIONING

SAEM Kennedy Lecture––infinite needs, finite resources: the new world of health care. Lamm RD. **Acad Emerg Med** 1997 Jun;4(6):593–602

Promoting health in prisons. More resources are needed [letter] Rossiter S. **BMJ** 1997 Apr 12;314(7087):1129

An orientation to vision loss program: meeting the needs of newly visually impaired older adults. Kleinschmidt JJ. **Gerontologist** 1996 Aug;36(4):534–8

Social and community resources and long–term recovery from treated and untreated alcoholism. Humphreys K, et al. **J Stud Alcohol** 1997 May;58(3):231–8

Management of emergency department resources [clinical conference] Rosen MD, et al. **Pediatr Emerg Care** 1997 Apr;13(2):158–61

Discussion document on the ethical aspects of the allocation of health care resources. World Medical Association. **S Afr Med J** 1996 Oct;86(10):1263–6

Nursing in Europe: a resource for better health. Introduction. Salvage J. **WHO Reg Publ Eur Ser** 1997;74:1–11 (5 ref.)

Voices of impoverished Brazilian women: health implications of roles and resources. Messias DK, et al. **Women Health** 1996;24(1):1–20

["Full shift light masonry work". Apparently a crux––social medicine epicrisis] Piechowiak H. **Gesundheitswesen** 1996 Oct;58(10):557–9 **(Ger)**

[The results of a comprehensive evaluation of the health status of the population, of public health resources and of the socioeconomic status of the territories of the Russian Federation] Tarasova GV, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jul–Aug;(4):3–6 (Eng. Abstr.) **(Rus)**

[Health resources in Health Ministry units, 1996] **Salud Publica Mex** 1997 May–Jun;39(3):240–7 **(Spa)**

[Confusion of concepts in the discussion on resource allocation (letter)] Allander E. **Lakartidningen** 1996 Dec 4;93(49):4525 **(Swe)**

[The art of distributing resources according to needs. Criteria of the Stockholm model] Diderichsen F, et al. **Lakartidningen** 1996 Oct 16;93(42):3677–8, 3680, 3683 **(Swe)**

[Ingenious feedback system benefits recovery (letter)] Löfqvist A. **Lakartidningen** 1997 Apr 9;94(15):1363 **(Swe)**

[A reply: reduced resources may be used in a better way!] Milton A. **Lakartidningen** 1997 Jan 29;94(5):315 **(Swe)**

ECONOMICS

The SECCAT survey: I. The costs and consequences of alcoholism. McKenna M, et al. **Alcohol Alcohol** 1996 Nov;31(6):565–76

The SECCAT Survey: II. The Alcohol Related Problems Questionnaire as a proxy for resource costs and quality of life in alcoholism treatment. Study of Socio–Economic Consequences and Costs of Alcoholism and Treatment. Patience D, et al. **Alcohol Alcohol** 1997 Jan–Feb;32(1):79–84

Commissioning genitourinary medicine services: the policy research agenda. Evans D, et al. **Int J STD AIDS** 1996 Mar–Apr;7(2):87–90

Increasing local economic resources for sustainable primary eye care services in developing countries: the concept of a 'sight tax' revisited [editorial] Smith AF, et al. **Ophthalmic Epidemiol** 1996 Jun;3(2):61–2

Treatment of personality disorders in an era of limited resources. Plakun EM. **Psychiatr Serv** 1996 Feb;47(2):128–30

[Managed care. Economic evaluation. Necessity, possibilities and limits] Oberender P. **Fortschr Med** 1997 May 20;115(14):38–40 (Eng. Abstr.) **(Ger)**

[Legitimizing and responsibilities of public health reports: public health reports or social court reports?] Borgers D, et al. **Gesundheitswesen** 1996 Nov;58(11):596–601 (Eng. Abstr.) **(Ger)**

[Telemedicine. Possibilities and perspectives] Lenzen H, et al. **Radiologe** 1997 Apr;37(4):294–8 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Physicians, limited resources and liability [see comments] Kluge EH. **Can Med Assoc J** 1996 Sep 15;155(6):778–9. Comment in: Can Med Assoc J 1996 Dec 15;155(12):1668.

Needs–based health care rights. Jindal B, et al. **J La State Med Soc** 1996 Jul;148(7):309–18

[Long–term goals of public health legislation] Grupp R. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:672–5 (Eng. Abstr.) **(Ger)**

ORGANIZATION & ADMINISTRATION

The importance of the community and its resources. York AS. **Disabil Rehabil** 1997 Apr;19(4):147–9 (19 ref.)

Minor surgery and resources at small clinics in rural Kenya. Nordberg E, et al. **East Afr Med J** 1996 Jun;73(6):385–9

Commissioning genitourinary medicine services: the policy research agenda. Evans D, et al. **Int J STD AIDS** 1996 Mar–Apr;7(2):87–90

[The tasks of organizing and managing the monitoring of natural therapeutic resources and of medical health–promotion locales] Kulikov GV. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):39–40 **(Rus)**

STANDARDS

The importance of technology for achieving superior outcomes from intensive care. Brazil APACHE III Study Group. Bastos PG, et al. **Intensive Care Med** 1996 Jul;22(7):664–9

STATISTICS & NUMERICAL DATA

A preliminary investigation of high–school counseling resources on the Cape Peninsula. Berard RM, et al. **Adolescence** 1997 Summer;32(126):373–9

Dental caries and resources spent for dental care among immigrant children and adolescents in Norway. Wang NJ. **Int Dent J** 1996 Apr;46(2):86–90

[Health resources in medical units of the Health Secretariat] **Salud Publica Mex** 1996 Jul–Aug;38(4):305–14 **(Spa)**

SUPPLY & DISTRIBUTION

Excess demand meets excess supply as referral companies link Canadian patients, US hospitals. Korcok M. **CMAJ** 1997 Sep 15;157(6):767–70

TRENDS

The evaluation of HIV counseling–and–testing services: making the most of limited resources. Holtgrave DR, et al. **AIDS Educ Prev** 1997 Jun;9(3 Suppl):105–18

Physician resource variables and their impact on the future pool of research expertise among psychiatrists: the Canadian Association of Professors of Psychiatry and Canadian Psychiatric Association Survey. el–Guebaly N, et al. **Can J Psychiatry** 1996 Apr;41(3):150–5

Current trends in HIV–related hospital admissions and their impact on hospital resource utilization in Ontario [published erratum appears in Clin Invest Med 1997 Jun;20(3):195] Hyland MJ, et al. **Clin Invest Med** 1997 Apr;20(2):95–101

Clinical and human resource planning for the downsizing of psychiatric hospitals: the British Columbia experience. Macfarlane D, et al. **Psychiatr Q** 1997 Spring;68(1):25–42

An unruly mélange? Coordinating external resources to the health sector: a review. Buse K, et al. **Soc Sci Med** 1997 Aug;45(3):449–63 (100 ref.)

UTILIZATION

Use of mental health resources in the treatment of adult out–patients with no diagnosable mental disorders. Siddique CM, et al. **Acta Psychiatr Scand** 1997 Jan;95(1):19–25

The Nordic comparative study on sectorized psychiatry. Part IV. The influence of patient social characteristics on treated incidence. Vinding HR, et al. **Acta Psychiatr Scand** 1996 May;93(5):339–44

Resource utilization control processes as indicators of quality in managed care organizations: a proposal. Roulidis ZC, et al. **Am J Med** 1997 Aug;103(2):146–51

Body mass index as a correlate of postoperative complications and resource utilization. Thomas EJ, et al. **Am J Med** 1997 Mar;102(3):277–83

Access to maternity care in rural Washington: its effect on neonatal outcomes and resource use. Nesbitt TS, et al. **Am J Public Health** 1997 Jan;87(1):85–90

Resource implications of outpatient referrals to a general urological service. Payne SR, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):111–4

Resource utilization for minimally invasive direct and standard coronary artery bypass grafting. Zenati M, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S84–7

Vertebral fracture and other predictors of physical impairment and health care utilization. Huang C, et al. **Arch Intern Med** 1996 Nov 25;156(21):2469–75

Managed care, managing uncertainty. Mirvis DM, et al. **Arch Intern Med** 1997 Feb 24;157(4):385–8 (38 ref.)

Impact of screening for mental health concerns on health service utilization and functional status in primary care patients. Reifler DR, et al. **Arch Intern Med** 1996 Dec 9–23;156(22):2593–9

Perioperative management of colon cancer under Medicare risk programs. Retchin SM, et al. **Arch Intern Med** 1997 Sep 8;157(16):1878–84

Posthospital setting, resource utilization, and self–care outcome in older women with hip fracture. Levi SJ. **Arch Phys Med Rehabil** 1997 Sep;78(9):973–9

Resource utilization and cost of care for rheumatoid arthritis and osteoarthritis in a managed care setting: the importance of drug and surgery costs. Lanes SF, et al. **Arthritis Rheum** 1997 Aug;40(8):1475–81

Fundholding practice's draft policy on ethical use of resources. Policy is mechanism by which decisions might be reached [letter; comment] De Takats D. **BMJ** 1996 Oct 5;313(7061):883. Comment on: BMJ 1996 Jun 15;312(7045):1528–31; discussion 1531–3.

Fundholding practice's draft policy on ethical use of resources. Policy is inconsistent [letter; comment] Rivlin MM. **BMJ** 1996 Oct 5;313(7061):883. Comment on: BMJ 1996 Jun 15;312(7045):1528–31; discussion 1531–3.

Cost–effectiveness of simvastatin in the secondary prevention of coronary artery disease in Canada [see comments] Rivière M, et al. **Can Med Assoc J** 1997 Apr 1;156(7):991–7. Comment in: Can Med Assoc J 1997 Apr 1;156(7):1005–7.

Predictors of atrial fibrillation after coronary artery surgery. Current trends and impact on hospital resources. Aranki SF, et al. **Circulation** 1996 Aug 1;94(3):390–7

Current trends in HIV–related hospital admissions and their impact on hospital resource utilization in Ontario [published erratum appears in Clin Invest Med 1997 Jun;20(3):195] Hyland MJ, et al. **Clin Invest Med** 1997 Apr;20(2):95–101

International comparisons of critical care outcome and resource consumption. Angus DC, et al. **Crit Care Clin** 1997 Apr;13(2):389–407 (85 ref.)

Patterns of hospital use, family history and co–existing conditions among urban African–American and Hispanic–American children with insulin–dependent diabetes mellitus. Lipton RB. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S173–9

Ex vivo fine–needle aspiration cytology and flow cytometric phenotyping in the diagnosis of lymphoproliferative disorders: a proposed algorithm for maximum resource utilization. Saddik M, et al. **Diagn Cytopathol** 1997 Feb;16(2):126–31

A retrospective study of resource utilisation in the treatment of advanced colorectal cancer in Europe. Torfs K, et al. **Eur J Cancer** 1996;32A Suppl 5:S28–31

Resource use and costs of elective surgery for asymptomatic abdominal aortic aneurysm. Jepson RG, et al. **Eur J Vasc Endovasc Surg** 1997 Aug;14(2):143–8

Muscle weakness is related to utilization of health care resources in COPD patients. Decramer M, et al. **Eur Respir J** 1997 Feb;10(2):417–23

Effects of psychiatric consultation on medical consumption in medical outpatients with low back pain. Koopmans GT, et al. **Gen Hosp Psychiatry** 1996 May;18(3):145–54

Top–down savings [letter; comment] Uzych L. **Hastings Cent Rep** 1996 Sep–Oct;26(5):3. Comment on: Hastings Cent Rep 1995 Nov–Dec;25(6):5–12.

Rural and urban differences in physician resource use for low–risk obstetrics. Hart LG, et al. **Health Serv Res** 1996 Oct;31(4):429–52

Resource support and heart patient recovery. Smith RT, et al. **Int J Rehabil Res** 1997 Mar;20(1):11–28

Can resource use be extracted from randomized controlled trials to calculate costs? A review of smoking cessation interventions in general practice. Rigby K, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):714–20

The illusion of end–of–life resource savings with advance

directives. SUPPORT Investigators. Study to Understand Prognoses and Preferences for Outcomes and Risks of Treatment [see comments] Teno J, et al. **J Am Geriatr Soc** 1997 Apr;45(4):513–8. Comment in: J Am Geriatr Soc 1997 Apr;45(4):519–20.

Replantation–revascularization and primary amputation in major hand injuries. Resources spent on treatment and the indirect costs of sick leave in Sweden. Holmberg J, et al. **J Hand Surg [Br]** 1996 Oct;21(5):576–80

Vascular surgeons' resource use at a university hospital related to diagnostic-related group and source of admission. Kuczynski YT, et al. **J Vasc Surg** 1997 Aug; 26(2):193–8

Extending health maintenance organization insurance to the uninsured. A controlled measure of health care utilization. Bograd H, et al. **JAMA** 1997 Apr 2;277(13):1067–72

Use of standardized patients to assess between-physician variations in resource utilization. McLeod PJ, et al. **JAMA** 1997 Oct 8;278(14):1164–8

Resources for cardiogenic shock [letter; comment] Barer D. **Lancet** 1997 Mar 29;349(9056):951; discussion 952. Comment on: Lancet 1997 Jan 11;349(9045):75–8.

Difference in countries' use of resources and clinical outcome for patients with cardiogenic shock after myocardial infarction: results from the GUSTO trial [see comments] Holmes DR Jr, et al. **Lancet** 1997 Jan 11;349(9045):75–8 . Comment in: Lancet 1997 Mar 29;349(9056):951; discussion 952. Comment in: Lancet 1997 Mar 29;349(9056):951–2; discussion 952.

Resources for cardiogenic shock [letter; comment] Sheridan DJ. **Lancet** 1997 Mar 29;349(9056):951; discussion 952. Comment on: Lancet 1997 Jan 11;349(9045):75–8.

Resources for cardiogenic shock [letter; comment] Tan LB. **Lancet** 1997 Mar 29;349(9056):951–2; discussion 952. Comment on: Lancet 1997 Jan 11;349(9045):75–8.

More resources, better survival? Troop P. **Lancet** 1997 Jan 11;349(9045):72

The impact of physician involvement in managed care on efficient use of hospital resources. Van Horn RL, et al. **Med Care** 1997 Sep;35(9):873–89

Association between mood-stabilizing medication and mental health resource use in the management of acute mania. Sajatovic M, et al. **Psychiatr Serv** 1997 Aug;48(8):1037–41

Impact of risperidone on the use of mental health care resources. Viale G, et al. **Psychiatr Serv** 1997 Sep; 48(9):1153–9

Use of community resources by prenatal case managers. Issel LM. **Public Health Nurs** 1996 Feb;13(1):3–12

Resource use by abused women following an intervention program: associated severity of abuse and reports of abuse ending. McFarlane J, et al. **Public Health Nurs** 1997 Aug; 14(4):244–50

Impact of an infection consultation service for bacteraemia on clinical management and use of resources. Nathwani D, et al. **QJM** 1996 Oct;89(10):789–97

Prior hospitalization and age as predictors of mental health resource utilization in Israel. Ginsberg G, et al. **Soc Sci Med** 1997 Mar;44(5):623–33

Borderline personality disorder and health care utilization in a primary care setting. Sansone RA, et al. **South Med J** 1996 Dec;89(12):1162–5

[Daily survey of procedures as markers of resources utilization] Iapichino G, et al. **Minerva Anestesiol** 1996 Sep; 62(9):289–96 (Eng. Abstr.) **(Ita)**

HEALTH RESOURCES ADMINISTRATION (U.S.) see **UNITED STATES HEALTH RESOURCES AND SERVICES ADMINISTRATION**

HEALTH RISK APPRAISAL see **HEALTH STATUS INDICATORS**

HEALTH SERVICE AREA see **CATCHMENT AREA (HEALTH)**

HEALTH SERVICES

On the 50th anniversary of Acta Medica Croatica [letter] Kraljević L. **Acta Med Croatica** 1997;51(2):116

Reproductive health awareness: an important dimension to be integrated into existing sexual and reproductive health programs. Pyper C. **Adv Contracept** 1997 Jun–Sep; 13(2–3):331–8 (5 ref.)

Utilisation rates and expenditure for public and private, curative-care services in semi-urban Guatemala. van der Stuyft P, et al. **Ann Trop Med Parasitol** 1997 Mar; 91(2):209–16

A surgeon becomes overseer of Scotland's health [news] **BMJ** 1997 Jan 11;314(7074):96

The Taliban are affecting Afghans' health [news] Steele J. **BMJ** 1996 Oct 26;313(7064):1033

Osteoporosis care—the need for a district-wide approach. Rowe R. **Br J Clin Pract** 1996 Sep;50(6):342–3

Hospitals and health services enterprises as social systems [comment] White KL. **Bull N Y Acad Med** 1996 Winter; 73(2):430–2. Comment on: Bull N Y Acad Med 1996 Winter;73(2):418–29.

Use of telephone medicine for the care of patients with human immunodeficiency virus infection or AIDS: comparison of a private infectious disease practice with a university clinic practice. Morrison RE, et al. **Clin Infect Dis** 1997 Feb;24(2):269–70

Westside Health Service [letter] Duncan WH. **Del Med J** 1997 Aug;69(8):433–4

Whither dermatology? [see comments] Cotterill JA. **Int J Dermatol** 1996 Sep;35(9):675–6. Comment in: Int J Dermatol 1996 Sep;35(9):621–2.

The provision of psychosexual services by genitourinary medicine physicians in the United Kingdom. Keane FE, et al. **Int J STD AIDS** 1997 Jun;8(6):402–4

Overview and critique of judgement and decision making in health care: social and procedural dimensions. Chase J, et al. **J Eval Clin Pract** 1996 Aug;2(3):205–10

Decision making in health care: introduction. Crow RA. **J Eval Clin Pract** 1996 Aug;2(3):203–4

Decision making in health care: commentary. Gilhooly KJ. **J Eval Clin Pract** 1996 Aug;2(3):231–3

Presidential address. Impressive achievements and intolerable shortcomings characterise India's health performance over the past 47 years. Chhaparwal BC. **J Indian Med Assoc** 1995 May;93(5):180–5

Science in a health service. Swales JD. **Lancet** 1997 May 3;349(9061):1319–21

Partnership: health services and medical education. Ajlouni K. **Med Educ** 1995;29 Suppl 1:61–2

Chaplains in health care. Parker D. **Med Health R I** 1997 Apr;80(4):115–8

Epidemiology, preventive services, and illnesses of international travelers. Scoville SL, et al. **Mil Med** 1997 Mar;162(3):172–8

Reform of the Veterans Affairs heath care system. Iglehart JK. **N Engl J Med** 1996 Oct 31;335(18):1407–11

Making new markets in the British NHS. Meyer GS. **Nutrition** 1997 Feb;13(2):171–2 (8 ref.)

The 'safety net' and other myths. It's time to challenge our cherished illusions [editorial] Oberg CN. **Postgrad Med** 1997 May;101(5):11, 15–6

Health sector co-operation in southern Africa--priorities for action [editorial] Wolvaardt G, et al. **S Afr Med J** 1997 May;87(5):587–90

Health care service at a camp for the developmentally disabled: a four year experience at Wisconsin Badger Camp. Olk DG. **Wis Med J** 1996 Aug;95(8):565–9

Health sector approach to vulnerability reduction and emergency preparedness. Ben Yahmed S, et al. **World Health Stat Q** 1996;49(3–4):172–8

Impact of Hurricane Luis on the health services of Antigua and Barbuda. Gibbs T, et al. **World Health Stat Q** 1996; 49(3–4):200–3

[Doctors without Borders and the reconstruction of health care: the Cambodia example] de Graaf P, et al. **Ned Tijdschr Geneeskd** 1996 Aug 31;140(35):1772–6 **(Dut)**

[The role of health care in occupationally disability (see comments)] ten Hove-Edens M, et al. **Ned Tijdschr Geneeskd** 1996 Oct 5;140(40):1982–6 (46 ref.) . Comment in: Ned Tijdschr Geneeskd 1996 Dec 7;140(49):2477. **(Dut)**

[The camel and the eye of the needle] Masoni A. **G Ital Cardiol** 1997 Jul;27(7):730–2 **(Ita)**

[Regional differences in health care services. What is needed for a more unified practice?] Holmboe J. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2291 **(Nor)**

[Experiences of the long-term unemployed with health care services. A survey from Lillesand] Ytterdahl T, et al. **Tidsskr Nor Laegeforen** 1997 Aug 20;117(19):2776–8 (Eng. Abstr.) **(Nor)**

[Necessary correction of the existing concept of the sanitary-epidemiological service in the prevention and actions in emergency situations] Morozov VV, et al. **Gig Sanit** 1997 Jan–Feb;(1):57–9 **(Rus)**

[Regarding the article by V.V. Morozov, S.K. Moiseenko, V,A, Trifonov, V.V. Fedorov, N.V. Pigalova, "Necessary correction of the existing concept of the sanitary-epidemiologic service in the prevention and actions in emergency situations" (letter)] Shestopalov NV. **Gig Sanit** 1997 Jan–Feb;(1):60 **(Rus)**

[Consumer of health services as a subject of the public health system] Denisov Vn, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Mar–Apr;(2):3–6 **(Rus)**

[The history of international relations of the People's Committee on Public Health in the 30th (For the 100th anniversary of the birth of G.N. Kaminskogo + +] Idel'chik KhI. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):57–60 **(Rus)**

[Problems of the development of clinical social work as professional activity] Martynenko AV. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):41–4 (Eng. Abstr.) **(Rus)**

[Charity and mercy today: the results of the international symposium in Moscow, 1992] Nuvakhov BSh. **Probl Sotsialnoi Gig Istor Med** 1994 Jul–Aug;(4):42–4 **(Rus)**

[Some aspects in financing public health institutions under the conditions of the obligatory medical insurance] Ordina NB, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb; (1):40–1 (Eng. Abstr.) **(Rus)**

[Care of injured and ill patients in combat areas in the former Yugoslavia 1991–1992] Pavlica D, et al. **Vojnosanit Pregl** 1996 Jan–Feb;53(1):3–9 (Eng. Abstr.) **(Scr)**

[Current and suitable organization of the Basque Health System. Opinion of the managing level] Garcia S, et al. **Gac Sanit** 1995 Jan–Feb;9(46):34–41 (Eng. Abstr.) **(Spa)**

[Health government and clinical practice: forgotten institutions? (editorial)] Ortún Rubio V. **Gac Sanit** 1997 May–Jun;11(3):111–3 **(Spa)**

[Social marketing: a strategy for promoting the health-related professions] Berlingeri LT. **P R Health Sci J** 1997 Mar; 16(1):93–5 **(Spa)**

[Physicians' strikes and health services: an ethical perspective] Goić A. **Rev Med Chil** 1996 Jul;124(7):873–9 (Eng. Abstr.) **(Spa)**

[Effects of health services and socioeconomic factors in spatial differences in mortality in Mexico] López-Ríos O. **Salud Publica Mex** 1997 Jan–Feb;39(1):16–24 (Eng. Abstr.) **(Spa)**

[Bad economics result in increased administration (letter)] Hammarkvist B. **Lakartidningen** 1997 Aug 27;94(35):2907–8 **(Swe)**

[Questions after hearing on increased health export: how can Swedish health care be sold abroad when waiting lists are longer and longer?] Lennholm B. **Lakartidningen** 1997 Feb 26;94(9):740–3 **(Swe)**

[Increased export of Swedish health care services] Lennholm B. **Lakartidningen** 1996 Oct 16;93(42):3644–56 **(Swe)**

[Same conditions for both private and public health care services (letter)] Ringholm B. **Lakartidningen** 1997 Apr 30; 94(18):1692 **(Swe)**

[Contribution of health services to public health. Longer life, quality of life and functional capacity] Rosén M. **Lakartidningen** 1997 Sep 3;94(36):3065–71 (32 ref.) **(Swe)**

[Is a civil health care sector needed?] Sjödin C. **Lakartidningen** 1997 Feb 26;94(9):702, 707 **(Swe)**

[A terminology system for health will be developed by Spri] Wennström G. **Lakartidningen** 1996 Nov 13;93(46):4132–3 **(Swe)**

ECONOMICS

Faithful patients: the effect of long-term physician-patient relationships on the costs and use of health care by older Americans. Weiss LJ, et al. **Am J Public Health** 1996 Dec; 86(12):1742–7

A prospective, longitudinal, multicenter study of service utilization and costs in fibromyalgia [see comments] Wolfe F, et al. **Arthritis Rheum** 1997 Sep;40(9):1560–70. Comment in: Arthritis Rheum 1997 Sep;40(9):1553–5.

The funder-purchaser-provider model and aboriginal health care provision [see comments] Tsey K, et al. **Aust N Z J Public Health** 1996 Dec;20(6):661–4. Comment in: Aust N Z J Public Health 1996 Dec;20(6):564–5.

Russian doctors protest over state of nation's health [news] Ingram M. **BMJ** 1997 Jun 28;314(7098):1851

A guide to collective investment funds. Way R. **Br J Hosp Med** 1996 Nov 20–Dec 10;56(10):550–1

Potential savings from using information technology applications in health care in the United States. Neumann PJ, et al. **Int J Technol Assess Health Care** 1996 Summer; 12(3):425–35

Tax reform and physician services. American Medical Association Center for Health Policy Research. **J Miss State Med Assoc** 1997 Apr;38(4):141–3

Quality of life rediscovered: implications for clinical outcome and health economics in schizophrenia [editorial] Awad AG. **J Psychiatry Neurosci** 1997 Jul;22(4):229–30

The managerial revolution: medicine as a business. Nichol D. **Med Educ** 1995;29 Suppl 1:41–3

Homegrown program promotes health in New Jersey. Seitz PM. **N J Med** 1996 Dec;93(12):47–51

Oregon health plan [letter] Uzych L. **Nurse Pract** 1996 Jun; 21(6):7–8

Cost of diseases in Brazil: breast cancer, enteritis, cardiac valve disease and bronchopneumonia. Arredondo A, et al. **Rev Saude Publica** 1995 Oct;29(5):349–54

Utilization of health care services in patients with severe obstructive sleep apnea. Kryger MH, et al. **Sleep** 1996 Nov; 19(9 Suppl):S111–6

The influence of budget-holding on cost containment and work procedures in primary care clinics. Gross R, et al. **Soc Sci Med** 1996 Jul;43(2):173–86

[Health care services tariffs, QA and new technologies] Aparo UL, et al. **Ann Ig** 1996 Jul–Aug;8(4):499–505 (Eng. Abstr.) **(Ita)**

[Metal charity counters of charity-box takings] Gribanov ED. **Probl Sotsialnoi Gig Istor Med** 1994 Jul–Aug;(4):45–6 **(Rus)**

[The structure of financial planning of public health in Ukraine during the transitional period] Koretskiy VL. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):13–5 (Eng. Abstr.) **(Rus)**

[Some aspects in financing public health institutions under the conditions of the obligatory medical insurance] Ordina NB, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb; (1):40–1 (Eng. Abstr.) **(Rus)**

[The development of regional foundation for compulsory health insurance] Petukhova VV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):45–8 (Eng. Abstr.) **(Rus)**

[Various aspects of public health system development under market economy] Polyakov IV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):9–13 (Eng. Abstr.) **(Rus)**

[Medical service marketing at the time of medical insurance] Polyakov IV, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jan–Feb;(1):49–53 (Eng. Abstr.) **(Rus)**

[From the new economic mechanism in public health to obligatory insurance] Roytman MP, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):30–6 **(Rus)**

[Social medical insurance and public health management in Austria] Semenova VYu, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):50–4 **(Rus)**

[Is there a relationship between vaccination coverage and pediatric health care?] Castro Conde JR, et al. **An Esp Pediatr** 1997 Feb;46(2):114–8 (Eng. Abstr.) **(Spa)**

[The Canadian health system and its financing] Solórza no FX. **Rev Panam Salud Publica** 1997 Mar;1(3):180–5 (Eng. Abstr.) **(Spa)**

[The economic costs in the production of health services: from the cost of inputs to the cost of case management] Arredondo A, et al. **Salud Publica Mex** 1997 Mar–Apr; 39(2):117–24 (Eng. Abstr.) **(Spa)**

[A new series: health economics for health services] Calltorp J. **Lakartidningen** 1996 Dec 4;93(49):4529–30 **(Swe)**

[Allow competition in our country's health care (letter)] Lindqvist B. **Lakartidningen** 1997 Sep 3;94(36):3018 **(Swe)**

HISTORY

The ecology of medical care. 1961 [classical article] White KL, et al. **Bull N Y Acad Med** 1996 Summer;73(1):187–205; discussion 206–12

More on Riel rebellion medical corps [letter; comment] Lampard R. **Can Med Assoc J** 1996 Nov 15;155(10):1394–5 . Comment on: Can Med Assoc J 1996 Jun 1;154(11):1624–5.

Health services in Belgrade during bombardment of the city in April 1941. Pavlović BB. **Srp Arh Celok Lek** 1997 Jul–Aug;125(7–8):246–52 **(Eng, Scc)**

[From plan to chaos? Norwegian health care through 50 turbulent years] Nordby T. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2508–10 **(Nor)**

[The hospital reform in Vilnius: from charity houses to hospitals (late 18–early 19th century)] Andryushis A. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):59–62 **(Rus)**

[The medical professionals of the underground in the Sumy region in the years of the Great Patriotic War] Chernobrov IV. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):60–1 **(Rus)**

[The results and lessons of the medical provision of the Soviet Army during the Great patriotic war] Chizh IM. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):20–3 **(Rus)**

[Child health services during the war] Danilishina EI. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):29–32 **(Rus)**

[Role of the public in ensuring health wellbeing of the population of Moscow] Goncharova SG. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):47–9 **(Rus)**

[The structure of therapeutic intervention during the war: on the front and in the rear] Klyasov AV. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):41–3 **(Rus)**

[The participation of medical personnel in the anti–epidemic services for the population] Kucherenko VD. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):44–7 **(Rus)**

[The organization of fight against typhus in the Samara region during the years of the Civil War] Kuz'min VYu. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):53–4 **(Rus)**

[On the history of the organization of military medical doctrine] Leonov IT, et al. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):39–41 **(Rus)**

[Medicine in war] Mirskiy MB. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):23–9 **(Rus)**

[Stages of charity movement in Russia in 18th–20th centuries] Nuvakhov BSh, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):52–3 **(Rus)**

[A historical analysis of financial resources provided for the system of comprehensive medical insurance] Reshetnikov AB. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun; (3):59–62 **(Rus)**

[The clinical foundations of Moscow University in the 18th century] Stochnik AM. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):56–8 **(Rus)**

[Valentina Georgievna Streltsova–Berest remembers] Streltsova–Berest VG. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):52–3 **(Rus)**

[The history of medical–social problems of the population of the Amur region during the Great Patriotic War] Voyt LN. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):60–2 **(Rus)**

LEGISLATION & JURISPRUDENCE

Regulating managed care in an integrated health system environment. Hoyt DB, et al. **Am J Health Syst Pharm** 1997 Aug 1;54(15):1752–4

Is health care regulation really dead? Keepnews D. **Am J Nurs** 1997 Jan;97(1):66–7

Health will be key responsibility of new Scottish parliament [news] Christie B. **BMJ** 1997 Sep 20;315(7110):697

The Jehovah's Witness family, transfusions, and pediatric day surgery. Morrison JE Jr, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jan 3;38(3):197–205; discussion 207–13

1997 legislative wrap–up. Zeno ZL. **J Ark Med Soc** 1997 Jul;94(2):65–8

Health care fraud: your risk may be greater than you think. Friedman M. **Md Med J** 1996 Oct;45(10):825–6

Health care law: a growing frontier. Weiner MP. **N J Med** 1997 Feb;94(2):61–2

Doctors' awareness of CPA [letter] Murmu LR, et al. **Natl Med J India** 1996 Mar–Apr;9(2):99–100

[The coordination of the regional health administration management and financing of compulsory health insurance] Denisov VN, et al. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):3–6 **(Rus)**

[The main issues of the concept of health care development in Russia and its legal basis] Pokrovskiy VI, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):4–7 **(Rus)**

[Medical–legal consensus for pediatric emergency units] Comas Masmitjá LI, et al. **An Esp Pediatr** 1997 Jun; 46(6):538–41 **(Spa)**

MANPOWER

The current provision of specialist health services to people with learning disabilities in England and Wales. Bailey NM, et al. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):52–9

Factors associated with staff support and resident lifestyle in services for people with multiple disabilities: a path analytic approach. Hatton C, et al. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):466–77

[Social problems of medical professional orientation (a review)] Semenkov NN. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):48–51 (Eng. Abstr.) **(Rus)**

ORGANIZATION & ADMINISTRATION

Emergency medicine in Vietnam. Richards JR. **Ann Emerg Med** 1997 Apr;29(4):543–5

Lost in the market? A survey of senior public health service managers in New Zealand's 'reforming' health system. Malcolm L, et al. **Aust N Z J Public Health** 1996 Dec; 20(6):567–73

Shooting the messenger [news] Chapman S. **BMJ** 1996 Oct 12;313(7062):902

London's healthcare services—again [editorial] Murphy E. **BMJ** 1997 Jul 19;315(7101):140

Romania to change health system [news] Toma T. **BMJ** 1997 Jul 26;315(7102):209

The health care system of the Grand Duchy of Luxembourg. Metz H. **Bull Soc Sci Med Grand Duche Luxemb** 1996; 133(2):13–25

The Family Preservation and Support Services Program. Ahsan N. **Future Child** 1996 Winter;6(3):157–60

Prisons. Going private to capture savings. Appleby C. **Hosp Health Netw** 1997 May 20;71(10):70, 72

Fifth annual scientific conference (ASCON V) annual lecture. Health and development: lessons from the grassroots. Abed FH. **J Diarrhoeal Dis Res** 1996 Jun; 14(2):119–24

How are the social sciences helping empower the poor to promote their own health and development? Perry HB. **J Diarrhoeal Dis Res** 1996 Jun;14(2):125–38

Medical care at the 1996 Olympic Village. Woodfin BA, et al. **J Med Assoc Ga** 1997 Jan;86(1):15–7

An effective model for reorganization of perinatal services in a metropolitan area: a descriptive analysis and historical perspective. Pollack LD. **J Perinatol** 1996 Jan–Feb; 16(1):3–8 (30 ref.)

Life after BMH Dharan [editorial] Dickinson JG. **J R Army Med Corps** 1996 Jun;142(2):55–7

Joint tuberculosis/leprosy programmes [editorial] Saunderson P. **Lepr Rev** 1997 Mar;68(1):2–9

Armed conflicts, health and health services in Africa. An epidemiological framework of reference. Loretti A. **Med Confl Surviv** 1997 Jul–Sep;13(3):219–28

Conspiring to succeed: the process of a joint military health care merger. Wells DL, et al. **Mil Med** 1997 May; 162(5):349–53

Taking care of their own: how professionals deal with impairment. Rapport R. **N J Med** 1997 Sep;94(9):57–9

Status and development of critical incident stress management services in the United Kingdom National Health Service and other emergency services combined: 1993–1996. Orner RJ, et al. **Occup Med (Oxf)** 1997 May; 47(4):203–9

Success on the road to adulthood. Issues and hurdles for adolescents with disabilities. White PH. **Rheum Dis Clin North Am** 1997 Aug;23(3):697–707 (44 ref.)

Efficacy of a central venous access service. Walters G, et al. **South Med J** 1997 Jan;90(1):37–9

Local health services: some lessons from their evolution in Bolivia. Darras C. **Trop Med Int Health** 1997 Apr; 2(4):356–62 (16 ref.)

Adverse Drug Reaction Project. Blustein JN, et al. **Wis Med J** 1997 Mar;96(3):48–9

Material resources are not enough: good management is the key to effectiveness. de Winter ER. **World Health Forum** 1996;17(1):49–51

Coordination for better laboratory services. El–Nageh MM. **World Health Forum** 1996;17(2):200–2

[Personal observations on the traumatology system in Israel] Chmátal P, et al. **Rozhl Chir** 1997 May;76(5):265–6 **(Cze)**

[Strategic management in health services] Aparo UL, et al. **Ann Ig** 1996 Jul–Aug;8(4):487–97 (Eng. Abstr.) **(Ita)**

[Implementation of the pediatric services in the region of Piedmont. A Piedmont pediatric team] Cerruti Mainardi P, et al. **Minerva Pediatr** 1996 Sep;48(9):373–8 (Eng. Abstr.) **(Ita)**

[Organization of a specialized center of surgery of liver, bile duct and pancreatic diseases in the regional public health system] Balashov GV. **Klin Khir** 1996;(10):41–2 **(Rus)**

[The advances in the health care management in the Russian Federation on the basis of the analysis of the health personnel] Cherepanova IS. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):29–33 (Eng. Abstr.) **(Rus)**

[The coordination of the regional health administration management and financing of compulsory health insurance] Denisov VN, et al. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):3–6 **(Rus)**

[The structure of financial planning of public health in Ukraine during the transitional period] Koretskiy VL. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):13–5 (Eng. Abstr.) **(Rus)**

[The organizational and economic aspects of the introduction of obligatory medical insurance] Lindenbraten AL, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jul–Aug;(4):20–3 (Eng. Abstr.) **(Rus)**

[Accreditation and assessment of quality of medical institutions] Ovcharov VK. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):25–35 **(Rus)**

[Current problems in the optimization of the function of the regional medical association] Petrashevich VA, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):25–9 (Eng. Abstr.) **(Rus)**

[From the new economic mechanism in public health to obligatory insurance] Roytman MP, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):30–6 **(Rus)**

[Social medical insurance and public health management in Austria] Semenova VYu, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):50–4 **(Rus)**

[On the concept of the formation of municipal system of health care] Shchepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):3–6 **(Rus)**

[The organization and technology of interaction between health care clinics and comprehensive medical insurance] Shchepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):44–8 (Eng. Abstr.) **(Rus)**

[Public health care reform and its organization] Shepot'ko AI. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):48–9 **(Rus)**

[Critical comments on the article by A.A. Priĭmak and A.L. Kucherov, "Conception of the organization of antituberculosis services in Russia" (Probl. Tub., 1955, No. 6, pp. 2–4) (letter)] Krylov VA. **Probl Tuberk** 1996;(3):53 **(Rus)**

[The role of the School of Health Care and Social Work at the Trnava University in health care education] Krčméry V Jr, et al. **Bratisl Lek Listy** 1996 Nov;97(11):700–1 **(Slo)**

[Is the pediatric service coordinated? Survey of pediatricians in Valencia and solutions] Boscà Berga J, et al. **An Esp Pediatr** 1997 Jun;46(6):565–70 (Eng. Abstr.) **(Spa)**

[Relationship between primary care and neurological care] Luengo A, et al. **Rev Neurol** 1996 Jan;24(125):69–72 (Eng. Abstr.) **(Spa)**

[More than 6300 cases in a database of health risks. Lex Maria events often result in organizational changes] **Lakartidningen** 1997 Apr 2;94(14):1307 **(Swe)**

[Development of activities within health care services: industrial models are seldom adapted] Arnetz B, et al. **Lakartidningen** 1997 Apr 16;94(16):1467–8 **(Swe)**

STANDARDS

Quality medical care, physicians, and risk managers [letter] Long KJ. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):635

Guidelines for audiology service delivery in nursing homes. Ad Hoc Committee on Audiology Service Delivery in Home Care and Institutional Settings. **ASHA Suppl** 1997 Spring;39(2 Suppl 17):15–29

The standard of care is not so standard. Gittler GJ, et al. **Clin Infect Dis** 1997 Feb;24(2):254–7

Cerebral palsy—the transition from youth to adulthood. Stevenson CJ, et al. **Dev Med Child Neurol** 1997 May; 39(5):336–42

Clinician reliability and accuracy in judging appropriate level of care. Bickman L, et al. **J Consult Clin Psychol** 1997 Jun;65(3):515–20

Health status and satisfaction with health care: results from the medical outcomes study. Marshall GN, et al. **J Consult Clin Psychol** 1996 Apr;64(2):380–90

Founders–Sumner lecture. Walker B Jr. **J Natl Med Assoc** 1997 May;89(5):341–5

What do New Jerseyans want from physicians? Shaffer J.

N J Med 1997 Feb;94(2):57–60

Occupational health services and OSHA compliance. Jones DL. **Occup Med** 1996 Jan–Mar;11(1):57–68 (9 ref.)

Assessment of the appropriateness of services provided by a multidisciplinary meningomyelocele clinic. Chambers GK, et al. **Pediatr Neurosurg** 1996;24(2):92–7

[Improvement of transfusion safety in a health care service through the implementation of a quality program] Hergon E, et al. **Transfus Clin Biol** 1996;3(5):305–14 (12 ref.) (Eng. Abstr.) **(Fre)**

[Health care systems and welfare in European community] Geddes M. **Epidemiol Prev** 1995 Dec;19(65):297–303 **(Ita)**

[Methodological approaches to the evaluation of medical–economic standards and possibilities of their utilization in health care] Bykova ZhE, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan–Feb;(1):47–9 (Eng. Abstr.) **(Rus)**

[The advances in the health care management in the Russian Federation on the basis of the analysis of the health personnel] Cherepanova IS. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):29–33 (Eng. Abstr.) **(Rus)**

[The control of quality and efficiency of medical assistance at a clinic of a medical institute] Gaydarov GM. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):16–9 **(Rus)**

[Contemporary social medical problems of the family and issues in medical–social services] Grinina OV. **Probl Sotsialnoi Gig Istor Med** 1994 Jul–Aug;(4):6–10 (Eng. Abstr.) **(Rus)**

[Accreditation and assessment of quality of medical institutions] Ovcharov VK. **Probl Sotsialnoi Gig Istor Med** 1995 Jul–Aug;(4):25–35 **(Rus)**

[The problems of the handicapped: medico–statistical aspects] Ovcharov VK. **Probl Sotsialnoi Gig Istor Med** 1997 Jan–Feb;(1):3–10 **(Rus)**

[Current problems in the optimization of the function of the regional medical association] Petrashevich VA, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):25–9 (Eng. Abstr.) **(Rus)**

[The rising of first aid efficiency to the rural population] Pozdeev VG. **Probl Sotsialnoi Gig Istor Med** 1994 Jul–Aug;(4):36–9 (Eng. Abstr.) **(Rus)**

[The standards of medical–social assistance to retirees] Preobrazhenskaya VS, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):12–5 (Eng. Abstr.) **(Rus)**

[The organization and technology of interaction between health care clinics and comprehensive medical insurance] Shchepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1996 May–Jun;(3):44–8 (Eng. Abstr.) **(Rus)**

[Proposals of a quality model in health care] Varo J. **Med Clin (Barc)** 1996 Jun 29;107(5):182–4 **(Spa)**

[Is Swedish health care really bad? (letter)] Eckerman I. **Lakartidningen** 1996 Dec 4;93(49):4523–4 **(Swe)**

STATISTICS & NUMERICAL DATA

The volume and mix of inpatient services provided by academic medical centers [see comments] Moy E, et al. **Acad Med** 1996 Oct;71(10):1116–22. Comment in: Acad Med 1996 Oct;71(10):1114–5.

Immunization rates among young children in the public and private health care sectors. Simpson DM, et al. **Am J Prev Med** 1997 Mar–Apr;13(2):84–8

One inhabitant per fifty square kilometers, one grizzly bear per two persons—a field study of health services in Yukon, Canada, May–June 1993. Haraldson S. **Arctic Med Res** 1996 Jan;55(1):32–42 (34 ref.)

Site of service, anesthesia, and postoperative practice patterns for oculoplastic and orbital surgeries. Bartamian M, et al. **Ophthalmology** 1996 Oct;103(10):1628–33

SUPPLY & DISTRIBUTION

The current provision of specialist health services to people with learning disabilities in England and Wales. Bailey NM, et al. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):52–9

Factors associated with staff support and resident lifestyle in services for people with multiple disabilities: a path analytic approach. Hatton C, et al. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):466–77

Should social work clients have the right to effective treatment? Myers LL, et al. **Soc Work** 1997 May; 42(3):288–98 (56 ref.)

[Health care systems and welfare in European community] Geddes M. **Epidemiol Prev** 1995 Dec;19(65):297–303 **(Ita)**

[Implementation of the pediatric services in the region of Piedmont. A Piedmont pediatric team] Cerruti Mainardi P, et al. **Minerva Pediatr** 1996 Sep;48(9):373–8 (Eng. Abstr.) **(Ita)**

[Supply and demand in the health–related professions] Herrell I. **P R Health Sci J** 1997 Mar;16(1):63–6 **(Spa)**

TRENDS

Afterword. Future directions for perinatal alcohol and drug treatment services. Wellisch J, et al. **J Psychoactive Drugs** 1997 Jan–Mar;29(1):123–5

The changing face of pathology in Australia: implications for public and private services. Sumithran E. **Med J Aust** 1997 Jan 6;166(1):30–2

PA health department offers information on DES. **Pa Med** 1996 Jul;99(7):24

Are the returns to technological change in health care declining? McClellan M. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12701–8

Health care trends and holding the line on costs. Schori TR. **Psychol Rep** 1996 Aug;79(1):27–34

[A proposal for reorientation of SMB (Servizi di Medicina di Base): simplification of bureaucracy and epidemiological work] Madeddu A, et al. **Ann Ig** 1996 Jul–Aug;8(4):477–86 (Eng. Abstr.) **(Ita)**

[Various aspects of public health system development under market economy] Polyakov IV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 May–Jun;(3):9–13 (Eng. Abstr.) **(Rus)**

[The future of the development of medical prophylaxis for the population of the Russian Federation (according to the data of sociological studies)] Shchepin VO. **Probl Sotsialnoi Gig Istor Med** 1997 Jan–Feb;(1):41–3 (Eng. Abstr.) **(Rus)**

[Proceedings of the 1st Hispanic Congress of the Health–Related Professions. Puerto Rico, 8–10 October 1996] **P R Health Sci J** 1997 Mar;16(1):53–95 **(Spa)**

[Increased bureaucracy and reduced income for physicians in the USA] Bergström L. **Lakartidningen** 1996 Oct 16; 93(42):3660 **(Swe)**

[What will happen to health care? (letter)] Fagerlund I. **Lakartidningen** 1997 Jan 29;94(5):318 **(Swe)**

UTILIZATION

Alcohol use and medical care utilization among health maintenance organization patients in the emergency department [see comments] Cherpitel CJ, et al. **Acad Emerg Med** 1996 Feb;3(2):106–13. Comment in: Acad Emerg Med 1996 Feb;3(2):95–7.

Patient–perceived severity of irritable bowel syndrome in relation to symptoms, health resource utilization and quality of life. Hahn BA, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):553–9

Aging families of adults with mental retardation: patterns and correlates of service use, need, and knowledge. Smith GC. **Am J Ment Retard** 1997 Jul;102(1):13–26

The relationship of patient reading ability to self–reported health and use of health services. Baker DW, et al. **Am J Public Health** 1997 Jun;87(6):1027–30

Competing priorities as a barrier to medical care among homeless adults in Los Angeles. Gelberg L, et al. **Am J Public Health** 1997 Feb;87(2):217–20

The School Enrollment–Based Health Insurance program: socioeconomic factors in enrollees' use of health services. Shenkman E, et al. **Am J Public Health** 1996 Dec; 86(12):1791–3

Faithful patients: the effect of long–term physician–patient relationships on the costs and use of health care by older Americans. Weiss LJ, et al. **Am J Public Health** 1996 Dec; 86(12):1742–7

Utilisation rates and expenditure for public and private, curative–care services in semi–urban Guatemala. van der Stuyft P, et al. **Ann Trop Med Parasitol** 1997 Mar; 91(2):209–16

Maternal and infant health: effects of moderate reductions in postpartum length of stay. Mandl KD, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):915–21

A prospective, longitudinal, multicenter study of service utilization and costs in fibromyalgia [see comments] Wolfe F, et al. **Arthritis Rheum** 1997 Sep;40(9):1560–70. Comment in: Arthritis Rheum 1997 Sep;40(9):1553–5.

Integrating general practice and hospital services. Pirkis J, et al. **Aust Fam Physician** 1996 Apr;25(4):537–42

Survey of competitive distance runners in Alberta: satisfaction with health care services with respect to running injuries. Rendall EO, et al. **Clin J Sport Med** 1997 Apr;7(2):104–12

Treatment of acute gastroenteritis: too much and too little care. Merrick N, et al. **Clin Pediatr (Phila)** 1996 Sep; 35(9):429–35 (38 ref.)

Differences in health care utilization between parents who perceive their child as vulnerable versus overprotective parents. Thomasgard M, et al. **Clin Pediatr (Phila)** 1996 Jun;35(6):303–8

Cerebral palsy—the transition from youth to adulthood. Stevenson CJ, et al. **Dev Med Child Neurol** 1997 May; 39(5):336–42

Diabetes mellitus and health service utilization: a case–control study of outpatient visits 8 years after diagnosis. Jonsson PM, et al. **Diabet Med** 1996 Dec; 13(12):1056–63

Patients' experience of epilepsy and health care. Mills N, et al. **Fam Pract** 1997 Apr;14(2):117–23

A changing picture of uncompensated care. Cunningham PJ, et al. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):167–75

Health insurance and the homeless. Kreider B, et al. **Health Econ** 1997 Jan–Feb;6(1):31–41

Comparability and representativeness of clinical homeless, community homeless, and domiciled clinic samples: physical and mental health, substance use, and health services utilization. Stein JA, et al. **Health Psychol** 1997 Mar;16(2):155–62

Genetic and environmental contributions to healthcare need and utilization: a twin analysis. True WR, et al. **Health Serv Res** 1997 Apr;32(1):37–53

Social environment, morbidity and use of health care among people with diabetes mellitus in Trinidad. Gulliford MC, et al. **Int J Epidemiol** 1997 Jun;26(3):620–7

The pattern of health care utilization of elderly people with arthritic pain in the hip or knee. Hopman–Rock M, et al. **Int J Qual Health Care** 1997 Apr;9(2):129–37

The health and psychosocial status of HIV–seropositive youth in Minnesota. Remafedi G, et al. **J Adolesc Health** 1996 Apr;18(4):263–9

Why is health care use rising if morbidity is being compressed? [editorial; comment] Wagner EH. **J Am Geriatr Soc** 1997 Jun;45(6):768–9. Comment on: J Am Geriatr Soc 1997 Jun;45(6):667–74.

Social support for HIV–infected mothers: relation to HIV care seeking. Williams AB, et al. **J Assoc Nurses AIDS Care** 1997 Jan–Feb;8(1):91–8

Legal drug use in a general population: association with gender, morbidity, health care utilization, and lifestyle characteristics. Furu K, et al. **J Clin Epidemiol** 1997 Mar; 50(3):341–9

Self–rated health status as a health measure: the predictive value of self–reported health status on the use of physician services and on mortality in the working–age population. Miilunpalo S, et al. **J Clin Epidemiol** 1997 May;50(5):517–28

Health care use by inner–city patients with asthma. Murray MD, et al. **J Clin Epidemiol** 1997 Feb;50(2):167–74

Generalized anxiety disorder in primary care: the precursor/modifier pathway to increased health care utilization. Roy–Byrne PP, et al. **J Clin Psychiatry** 1997; 58 Suppl 3:34–8; discussion 39–40 (37 ref.)

Clinician reliability and accuracy in judging appropriate level of care. Bickman L, et al. **J Consult Clin Psychol** 1997 Jun;65(3):515–20

Sex differences in health problems, diagnostic testing, and referral in primary care. Stoverinck MJ, et al. **J Fam Pract** 1996 Dec;43(6):567–76

The effect of strength and endurance training on gait, balance, fall risk, and health services use in community–living older adults. Buchner DM, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul;52(4):M218–24

The effect of race and ethnicity on the use of selected health care procedures: a comparison of south central Los Angeles and the remainder of Los Angeles county. Carlisle DM, et al. **J Health Care Poor Underserved** 1996 Nov; 7(4):308–22

Quality of life, major medical complications and hospital service utilization in patients with primary biliary cirrhosis after liver transplantation. Navasa M, et al. **J Hepatol** 1996 Aug;25(2):129–34

Visits to medical practitioners in the first 6 months of life. Gunn J, et al. **J Paediatr Child Health** 1996 Apr;32(2):162–6

Community impact of childhood varicella infections. Yawn BP, et al. **J Pediatr** 1997 May;130(5):759–65

Increasing use of antenatal corticosteroid therapy between 1990 and 1993 in Vermont Oxford Network. Horbar JD. **J Perinatol** 1997 Jul–Aug;17(4):309–13

Ethnic influence on health and dependency of elderly inner city residents. Ritch AE, et al. **J R Coll Physicians Lond** 1996 May–Jun;30(3):215–20

Low utilization of formal medical services by injured persons in a developing nation: health service data underestimate the importance of trauma. Mock CN, et al. **J Trauma** 1997 Mar;42(3):504–11; discussion 511–3

The effect of universal health insurance on health care utilization in Taiwan. Results from a natural experiment. Cheng SH, et al. **JAMA** 1997 Jul 9;278(2):89–93

Children in homeless families in Melbourne: health status and use of health services. Efron D, et al. **Med J Aust** 1996 Dec 2–16;165(11–12):630–3

Impact of pet ownership on elderly Australians' use of medical services: an analysis using Medicare data. Jorm AF, et al. **Med J Aust** 1997 Apr 7;166(7):376–7

Rotavirus gastroenteritis: impact on young children, their families and the health care system. Liddle JL, et al. **Med J Aust** 1997 Sep 15;167(6):304–7

Variation in health and health care use by socioeconomic status in Winnipeg, Canada: does the system work well? Yes and no. Roos NP, et al. **Milbank Q** 1997;75(1):89–111

The Medicare–HMO revolving door—the healthy go in and the sick go out [see comments] Morgan RO, et al. **N Engl J Med** 1997 Jul 17;337(3):169–75. Comment in: N Engl J Med 1997 Jul 17;337(3):192–5.

Underutilisation of primary medical care services by Maori and low income New Zealanders [letter] Burton JG. **N Z Med J** 1996 Dec 13;109(1035):470–1

Views of Pacific Islands people with noninsulin dependent diabetes: a Wellington survey. Mitikulena A, et al. **N Z Med J** 1996 Dec 13;109(1035):467–9

Does reducing the number of prenatal office visits for low–risk women result in increased use of other medical services? McDuffie RS Jr, et al. **Obstet Gynecol** 1997 Jul; 90(1):68–70

Racial variations in treatment for glaucoma and cataract among Medicare recipients. Wang F, et al. **Ophthalmic Epidemiol** 1997 Jun;4(2):89–100

Use of eye care services among the 1991 Medicare population. Ellwein LB, et al. **Ophthalmology** 1996 Nov; 103(11):1732–43

Eye care for elderly Americans with diabetes mellitus. Failure to meet current guidelines. Wang F, et al. **Ophthalmology** 1996 Nov;103(11):1744–50

Effect of primary care treatment of depression on service

use by patients with high medical expenditures. Katzelnick DJ, et al. **Psychiatr Serv** 1997 Jan;48(1):59–64
Homeless mentally ill clients' and providers' perceptions of service needs and clients' use of services. Rosenheck R, et al. **Psychiatr Serv** 1997 Mar;48(3):381–6
Health care trends and holding the line on costs. Schori TR. **Psychol Rep** 1996 Aug;79(1):27–34
Alexithymia and health care utilization. Lumley MA, et al. **Psychosom Med** 1996 May–Jun;58(3):197–202
Utilization of health care services in patients with severe obstructive sleep apnea. Kryger MH, et al. **Sleep** 1996 Nov; 19(9 Suppl):S111–6
The poor pay more: health-related inequality in Thailand. Pannarunothai S, et al. **Soc Sci Med** 1997 Jun; 44(12):1781–90
Access and utilization: a continuum of health service environments. Rosenberg MW, et al. **Soc Sci Med** 1996 Sep;43(6):975–83
Health perceptions and self-care response to illness among users of medical and alternative health services in St Andrew, Jamaica. Williams SK. **West Indian Med J** 1996 Sep;45(3):78–81
Gender differences in participation and responsiveness to a health intervention for older Americans. Gallagher RA, et al. **Women Health** 1997;25(3):63–81
[Prevention and treatment—a service or an obligation?] Lunde IM. **Nord Med** 1997 Jan;112(1):9 **(Dan)**
[Attendance at a health center by clandestine prostitutes in Djibouti] Philippon M, et al. **Sante** 1997 Jan–Feb;7(1):5–10 (Eng. Abstr.) **(Fre)**
[Variations in referral to specialized medical centers of the Swiss disability insurance: role of the referring party] Dupriez K, et al. **Soz Praventivmed** 1996;41(6):387–94 (Eng. Abstr.) **(Fre)**
[Income, health, and health services utilization in Germany 1992] Winkelhake O, et al. **Soz Praventivmed** 1997; 42(1):3–10 (Eng. Abstr.) **(Ger)**
[The homeless and the health system: profile of the homeless patient] Posen J, et al. **Harefuah** 1997 Jan 1;132(1):1–5, 72 (Eng. Abstr.) **(Heb)**
[The immigration of Italian patients to foreign countries. Analysis of the Gustave Roussy Institute series] Crocetti E, et al. **Epidemiol Prev** 1994 Dec;18(61):204–10 (Eng. Abstr.) **(Ita)**
[Current status of the use of Welfare Centers Japan by foreign children and pregnant women living in Japan] Lee S, et al. **Nippon Koshu Eisei Zasshi** 1996 Jun;43(6):486–96 (Eng. Abstr.) **(Jpn)**
[To consult a physician (letter)] Borthne A. **Tidsskr Nor Laegeforen** 1997 May 20;117(13):1951 **(Nor)**
[Referred morbidity and the utilization of health services in Brazilian urban areas: methodology] Cesar CL, et al. **Rev Saude Publica** 1996 Apr;30(2):153–60 (Eng. Abstr.) **(Por)**
[The dynamics of the health status of pregnant women and children in the framework of the gynecological–therapeutical–pediatric complex] Kosyakova NI, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jan–Feb;(1):15–7 (Eng. Abstr.) **(Rus)**
[The standards of medical-social assistance to retirees] Preobrazhenskaya VS, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep–Oct;(5):12–5 (Eng. Abstr.) **(Rus)**
[Profile of a pneumology regional health service] Pellicer C, et al. **Arch Bronconeumol** 1996 Nov;32(9):447–52 (Eng. Abstr.) **(Spa)**
[The impact of primary health care reform in the utilization of medical and nursing services. Working Group on the Utilization of of Health Services] Fernández JL, et al. **Aten Primaria** 1996 Jun 30;18(2):52–7 (Eng. Abstr.) **(Spa)**
[Comparative study of normal and over-users of a health center] García Lavandera LJ, et al. **Aten Primaria** 1996 Nov 30;18(9):484–9 (Eng. Abstr.) **(Spa)**
[Socioeconomic profile of female users of a family counseling center in Oviedo (letter)] Ruano MA, et al. **Aten Primaria** 1996 Feb 15;17(2):171–2 **(Spa)**
[Socioeconomic differences in the use and accessibility of health care services in Spain] Regidor E, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):285–8 (Eng. Abstr.) **(Spa)**
[The welfare wall is cracked. Low-educated people are not favoured by health services] Haglund B, et al. **Lakartidningen** 1996 Oct 16;93(42):3672, 3675–7 **(Swe)**

HEALTH SERVICES ACCESSIBILITY

Medical students as patients: a pilot study of their health care needs, practices, and concerns. Roberts LW, et al. **Acad Med** 1996 Nov;71(11):1225–32
Providing accessible health care for adolescents with sexually transmitted disease. Brabin L. **Acta Trop** 1996 Dec 30; 62(4):209–16 (20 ref.)
Expanding the availability and improving delivery of natural family planning services and fertility awareness education: providers' perspectives. Arévalo M. **Adv Contracept** 1997 Jun–Sep;13(2–3):275–81
Some priorities in maximizing access to and quality of contraceptive services. Shelton JD, et al. **Adv Contracept** 1996 Sep;12(3):233–7 (10 ref.)
Depression and use of mental health services among HIV-infected men. Katz MH, et al. **AIDS Care** 1996 Aug; 8(4):433–42
Community service needs of people with HIV infection in London. Petrou S, et al. **AIDS Care** 1996 Aug;8(4):467–78
Does increasing the opportunity for counseling increase the effectiveness of outpatient drug treatment? Fiorentine R, et al. **Am J Drug Alcohol Abuse** 1997 Aug;23(3):369–82
Public access to defibrillation. The Automatic Defibrillation Task Force. Weisfeldt ML, et al. **Am J Emerg Med** 1996 Nov;14(7):684–92
Are patients who undergo open-access endoscopy more anxious about their procedures than patients referred from the GI clinic? [see comments] Mahajan RJ, et al. **Am J Gastroenterol** 1996 Dec;91(12):2505–8. Comment in: Am J Gastroenterol 1997 Aug;92(8):1403–4.
Renal transplantation: access and outcomes. USRDS. United States Renal Data System. **Am J Kidney Dis** 1997 Aug;30(2 Suppl 1):S118–27
Nurse advocates needed [letter; comment] Stevens MT. **Am J Nurs** 1997 Mar;97(3):25. Comment on: Am J Nurs 1997 Jan;97(1):44–51; quiz 52.
Preventing preterm birth and increasing access to prenatal care: two important but distinct national goals [comment] Alexander GR, et al. **Am J Prev Med** 1997 Jul–Aug; 13(4):290–1. Comment on: Am J Prev Med 1997 Jul–Aug;13(4):292–7.
Antigovernment sentiment and support for universal access to care: are they incompatible? Goldsteen RL, et al. **Am J Public Health** 1997 Jan;87(1):25–8
The distance to community medical care and the likelihood of hospitalization: is closer always better? Goodman DC, et al. **Am J Public Health** 1997 Jul;87(7):1144–50
An international comparison of cancer survival: Toronto, Ontario, and Detroit, Michigan, metropolitan areas [see comments] Gorey KM, et al. **Am J Public Health** 1997 Jul;87(7):1156–63. Comment in: Am J Public Health 1997 Jul;87(7):1095–6.
Access to maternity care in rural Washington: its effect on neonatal outcomes and resource use. Nesbitt TS, et al. **Am J Public Health** 1997 Jan;87(1):85–90
Managed care organizations: a link in the chain of survival? [see comments] Dickinson E, et al. **Ann Emerg Med** 1996 Dec;28(6):719–21. Comment in: Ann Emerg Med 1996 Dec;28(6):705–8.
Access to emergency care under TennCare: do patients understand the system? Young C, et al. **Ann Emerg Med** 1997 Sep;30(3):281–5
Inner-city health care. American College of Physicians. **Ann Intern Med** 1997 Mar 15;126(6):485–90
Predictors of breast-conserving surgery in Connecticut, 1990–1992. Polednak AP. **Ann Surg Oncol** 1997 Apr–May; 4(3):259–63
Left main stenosis [letter; comment] Naylor CD. **Ann Thorac Surg** 1996 Oct;62(4):1239–41. Comment on: Ann Thorac Surg 1996 Feb;61(2):513–4.
Adolescent health services—through their eyes. Oppong-Odiseng AC, et al. **Arch Dis Child** 1997 Aug; 77(2):115–9
Inmate access to postrelease medical care: public health implications [letter; comment] Macher AM, et al. **Arch Fam Med** 1997 Jul–Aug;6(4):318. Comment on: Arch Fam Med 1994 Oct;3(10):894–8.
Aboriginal health in the peel region of Western Australia. Hamdorf M, et al. **Aust Fam Physician** 1996 Sep;25(9 Suppl 2):S81–5
Access to assisted human reproduction services by minority groups. Daniels KR, et al. **Aust N Z J Obstet Gynaecol** 1997 Feb;37(1):79–85
A survey of health agencies' responses to non-English-speaking women's health needs in south Australia. Dolman J, et al. **Aust N Z J Public Health** 1996 Apr;20(2):155–60
Accessibility of and client satisfaction with dental services in Melbourne. Lewis JM, et al. **Aust N Z J Public Health** 1997 Apr;21(2):191–8
Children's immunisation: improving strategies. Lloyd G. **Aust N Z J Public Health** 1996 Feb;20(1):101–2
Has access to hospital improved for Aborigines in the northern territory? McDermott RA, et al. **Aust N Z J Public Health** 1996 Dec;20(6):589–93
Treatment of renal disease among aboriginal people [letter; comment] McLaren B. **Aust N Z J Public Health** 1996 Apr;20(2):217–8. Comment on: Aust J Public Health 1995 Dec;19(6):603–9.
Difficulties experienced by carers from non-English-speaking backgrounds in using health and other support services. Plunkett A, et al. **Aust N Z J Public Health** 1996 Feb;20(1):27–32
Legalising abortion: it's time [editorial] Richters J. **Aust N Z J Public Health** 1996 Feb;20(1):3–4
Access of Native Americans to renal transplantation in Arizona and New Mexico. Narva A, et al. **Blood Purif** 1996;14(4):293–304
Rationing health care. Access to treatment should be equal, regardless of age [letter; comment] Bowling A. **BMJ** 1997 Jun 28;314(7098):1902. Comment on: BMJ 1997 Mar 15;314(7083):820–5.
First myocardial infarction in patients of Indian subcontinent and European origin. Management differed greatly between the two groups [letter; comment] Choudhury RP, et al. **BMJ** 1997 Jul 12;315(7100):119; discussion 119–20. Comment on: BMJ 1997 Mar 1;314(7081):639–42.
Access to computed tomography in British accident and emergency departments [letter; comment] [see comments] Dorman P, et al. **BMJ** 1997 Feb 8;314(7078):440–1. Comment on: BMJ 1996 Sep 14;313(7058):640–1. Comment in: BMJ 1997 Jul 19;315(7101):187.
Investigation is needed into why some patients are not offered cardiac rehabilitation [letter; comment] Greenwood D, et al. **BMJ** 1996 Nov 16;313(7067):1264. Comment on: BMJ 1996 Aug 3;313(7052):267–8.
Socioeconomic determinants of health. Children, inequalities, and health. Roberts H. **BMJ** 1997 Apr 12;314(7087):1122–5
Children's dentistry in the general dental service [letter; comment] McLetchie DD. **Br Dent J** 1997 May 24; 182(10):370. Comment on: Br Dent J 1997 Mar 8;182(5):165–7.
Open access fundholding endoscopy in the private sector. Martin J, et al. **Br J Clin Pract** 1997 Mar;51(2):71–3
The rapid access proctology clinic: an appraisal of one year's experience. Boghossian P, et al. **Br J Gen Pract** 1996 Dec; 46(413):741–2
The reported availability of general practitioners and the influence of practice list size. Campbell JL. **Br J Gen Pract** 1996 Aug;46(409):465–8
Open-access echocardiography [letter; comment] Clubb AS, et al. **Br J Gen Pract** 1996 Feb;46(403):122. Comment on: Br J Gen Pract 1995 Oct;45(399):517–9.
Accessibility and availability: how can we cope? [editorial] Davis PJ. **Br J Gen Pract** 1996 Aug;46(409):449
Open-access echocardiography to general practitioners for suspected heart failure. Murphy JJ, et al. **Br J Gen Pract** 1996 Aug;46(409):475–6
Should general practitioners refer patients directly to physical therapists? Robert G, et al. **Br J Gen Pract** 1997 May; 47(418):314–8 (26 ref.)
Does providing more accessible primary care psychology services lower the clinical threshold for referrals? Tata P, et al. **Br J Gen Pract** 1996 Aug;46(409):469–72
Availability of services to treat patients with acute low back pain. Underwood MR, et al. **Br J Gen Pract** 1997 Aug; 47(421):501–2
Ethical ideology and the allocation of scarce medical resources. Furnham A, et al. **Br J Med Psychol** 1997 Mar; 70 (Pt 1):51–63
Access to mental health care in an inner-city health district. I: Pathways into and within specialist psychiatric services. Commander MJ, et al. **Br J Psychiatry** 1997 Apr;170:312–6
Access to mental health care in an inner-city health district. II: Association with demographic factors. Commander MJ, et al. **Br J Psychiatry** 1997 Apr;170:317–20
Prevalence of hip problems in the population aged 55 years and over: access to specialist care and future demand for hip arthroplasty. Fear J, et al. **Br J Rheumatol** 1997 Jan; 36(1):74–6
APA resource document: I. The professional responsibilities of psychiatrists in evolving health care systems. Hoge SK. **Bull Am Acad Psychiatry Law** 1996;24(3):393–406
Access to the world's resources: women's health. Heiberg AN. **Bull Med Libr Assoc** 1996 Jan;84(1):91–5
Improving children's access to health care: the role of decategorization. Hughes DC, et al. **Bull N Y Acad Med** 1996 Winter;73(2):237–54
Migrant TB treatment in Haiti resulting in U.S. policy change at Guantánamo Bay, Cuba. Bonnlander H. **Bull Pan Am Health Organ** 1996 Sep;30(3):206–11
What is the proper role for charity in healthcare? Ackerman F. **Camb Q Healthc Ethics** 1996 Summer;5(3):425–9
Barriers and facilitators to seniors' independence. Perceptions of seniors, caregivers, and health care providers. Brown JB, et al. **Can Fam Physician** 1997 Mar;43:469–75
Family physicians managing tuberculosis. Qualitative study of overcoming barriers. Jackson L, et al. **Can Fam Physician** 1997 Apr;43:649–55
Where do children go? Comparing the after-hours availability of family physicians and primary care pediatricians in four Canadian cities. Patel H, et al. **Can Fam Physician** 1997 Jul;43:1235–9
Value for money in South African health care: findings of a review of health expenditure and finance. Doherty J, et al. **Cent Afr J Med** 1996 Jan;42(1):21–4 (5 ref.)
Get real, Dr. Block [letter; comment] Carlen R. **Chest** 1996 Dec;110(6):1622. Comment on: Chest 1996 Jul;110(1):1–2.
The barbarism of managed care, revisited [letter; comment] Siegel AD. **Chest** 1996 Dec;110(6):1623. Comment on: Chest 1996 Jul;110(1):1–2.
Barriers to cancer prevention in the older person. Fox SA, et al. **Clin Geriatr Med** 1997 Feb;13(1):79–95 (129 ref.)
Facing breast cancer far from radiation therapy centres [letter; comment] Bathe OF, et al. **CMAJ** 1997 Aug 1; 157(3):251–3. Comment on: Can Med Assoc J 1997 Jan 1;156(1):25–35. Comment on: Can Med Assoc J 1997 Jan 1;156(1):43–5.
Accessing primary dental care in three London boroughs. Adams T, et al. **Community Dent Health** 1997 Jun; 14(2):108–12
What will HMOs have in store next for medical care? [letter] Manoharan L. **Conn Med** 1996 Oct;60(10):631
Suicide prevention within the european community [editorial] Kerkhof AJ, et al. **Crisis** 1995;16(4):146
Geographic information systems, spatial network analysis, and contraceptive choice. Entwisle B, et al. **Demography** 1997 May;34(2):171–87
Barriers to seeking treatment for major depression. Blumenthal R, et al. **Depress Anxiety** 1996–97;4(6):273–8

Self-reported health status and access to health services in a community sample with Parkinson's disease. Peto V, et al. **Disabil Rehabil** 1997 Mar;19(3):97–103

Racism and health: a research agenda [editorial] Williams DR. **Ethn Dis** 1996 Winter–Spring;6(1–2):1–8

Variation in the use of coronary angiography in patients with unstable angina is related to differences in patient population and availability of angiography facilities, without affecting prognosis. van Miltenburg–van Zijl AJ, et al. **Eur Heart J** 1996 Dec;17(12):1828–35

The measurement of public opinion on abortion: the effects of survey design. Bumpass LL. **Fam Plann Perspect** 1997 Jul–Aug;29(4):177–80

Private physicians' provision of contraceptive services. Landry DJ, et al. **Fam Plann Perspect** 1996 Sep–Oct; 28(5):203–9

Access to medical care one year prior to diagnosis in 100 HIV–positive women. Madge S, et al. **Fam Pract** 1997 Jun; 14(3):255–7

Open access endoscopy: cognition, technician, or some of both? [editorial; comment] Shaheen NJ, et al. **Gastrointest Endosc** 1997 Jul;46(1):84–7. Comment on: Gastrointest Endosc 1997 Jul;46(1):15–20. Comment on: Gastrointest Endosc 1997 Jul;46(1):21–6.

Issues facing Africans in London with HIV infection [editorial] McMunn AM, et al. **Genitourin Med** 1997 Jun; 73(3):157–8

Findings from a statewide program of respite care: a comparison of service users, stoppers, and nonusers. Cox C. **Gerontologist** 1997 Aug;37(4):511–7

Justice, fair procedures, and the goals of medicine. Daniels N. **Hastings Cent Rep** 1996 Nov–Dec;26(6):10–2

Recent findings on preventable hospitalizations [see comments] Billings J, et al. **Health Aff (Millwood)** 1996 Fall;15(3):239–49. Comment in: Health Aff (Millwood) 1997 Jan–Feb;16(1):224–5; discussion 225.

Iconoclasm and physician workforce research [comment] Mullan F. **Health Aff (Millwood)** 1997 Jan–Feb;16(1):87–9 . Comment on: Health Aff (Millwood) 1997 Jan–Feb;16(1):55–70. Comment on: Health Aff (Millwood) 1997 Jan–Feb;16(1):71–86.

The Latino Health Advocacy Program: a collaborative lay health advisor approach. Baker EA, et al. **Health Educ Behav** 1997 Aug;24(4):495–509

Obstetricians' receptiveness to teen prenatal patients who are Medicaid recipients. Gifford B. **Health Serv Res** 1997 Aug; 32(3):265–82

The influence of distance on ambulatory care use, death, and readmission following a myocardial infarction. Piette JD, et al. **Health Serv Res** 1996 Dec;31(5):573–91

Where do elderly veterans obtain care for acute myocardial infarction: Department of Veterans Affairs or Medicare? Wright SM, et al. **Health Serv Res** 1997 Feb;31(6):739–54

Partnerships for improved service delivery: the Newark Target Cities Project. Kraft MK, et al. **Health Soc Work** 1997 May;22(2):143–8

Addressing AIDS long–term care issues through education and advocacy. Marder R, et al. **Health Soc Work** 1995 Feb;20(1):75–80

Insurance ... problems getting health care or paying for it [news] **Hosp Health Netw** 1996 Dec 20;70(24):11–2

Technology. Phone first. Swan H. **Hosp Health Netw** 1997 Jan 5;71(1):46

Effectiveness of meningococcal vaccine in Brazil [letter; comment] Costa EA. **Int J Epidemiol** 1997 Jun;26(3):681–4 . Comment on: Int J Epidemiol 1995 Oct;24(5):1050–7.

Specifications for new technologies for female sterilization for use in developing countries. Dusitsin N. **Int J Gynaecol Obstet** 1995 Dec;51 Suppl 1:S15–6

User fee policies to promote health service access for the poor: a wolf in sheep's clothing? Russell S, et al. **Int J Health Serv** 1997;27(2):359–79

Another look at emergency room overcrowding: accessibility of the health services and quality of care. Lombrail P, et al. **Int J Qual Health Care** 1997 Jun;9(3):225–35

Access to genitourinary medicine services by women attending a family planning clinic. Gunneberg N, et al. **Int J STD AIDS** 1996 Mar–Apr;7(2):102–5

Carers of the elderly—knowledge, use of and satisfaction with day care services. Jennings S, et al. **Ir J Med Sci** 1997 Jan–Mar;166(1):28–31 (14 ref.)

Experience of a rapid access acute chest pain clinic. el Gaylani N, et al. **Ir Med J** 1997 Jun–Jul;90(4):139–40

Access to rehabilitation facilities in an unselected hospital population affected by acute stroke. Cavestri R, et al. **Ital J Neurol Sci** 1997 Feb;18(1):9–16

Do school–based health centers improve adolescents' access to health care, health status, and risk–taking behavior? Kisker EE, et al. **J Adolesc Health** 1996 May;18(5):335–43

Population views on access to community nursing services in Finland. Koponen P, et al. **J Adv Nurs** 1996 Oct; 24(4):727–35

Choosing the choices in the USA: examples in the maternity area. Mander R. **J Adv Nurs** 1997 Jun;25(6):1192–7 (24 ref.)

Antenatal education—where next? Nolan ML. **J Adv Nurs** 1997 Jun;25(6):1198–204

Foster care: an update. Rosenfeld AA, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):448–57 (57 ref.)

Patients' opinions regarding direct access to dermatologic specialty care. Owen SA, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 1):250–6

The effect of a comprehensive Medicaid expansion on physicians' obstetric practices in Washington State. Baldwin LM, et al. **J Am Board Fam Pract** 1996 Nov–Dec; 9(6):418–21

A new paradigm for increasing access to dental care: the Oregon Health Plan. Block LE, et al. **J Am Coll Dent** 1996 Spring;63(1):30–6

Health education improves older subjects' attitudes toward urinary incontinence and access to care: a randomized study in sheltered accommodation centers for the aged [letter] Béguin AM, et al. **J Am Geriatr Soc** 1997 Mar; 45(3):391–2

Religious freedom, reproductive health care, and hospital mergers. Gallagher J. **J Am Med Womens Assoc** 1997 Spring;52(2):65–8

Barriers to the use of pharmacy services: the case of ethnic populations. Siganga WW, et al. **J Am Pharm Assoc (Wash)** 1997 May–Jun;NS37(3):335–40

Breast cancer screening practices among Cambodian women in Houston, Texas. Yi JK, et al. **J Cancer Educ** 1996 Winter; 11(4):221–5

Access to bone marrow transplantation for leukemia and lymphoma: the role of sociodemographic factors. Mitchell JM, et al. **J Clin Oncol** 1997 Jul;15(7):2644–51

The extent of barriers and linkages to health care for head start children. Giambruno C, et al. **J Community Health** 1997 Apr;22(2):101–14

Do public clinic systems provide health care access for the urban poor? A cross–sectional survey. Kiefe CI, et al. **J Community Health** 1996 Feb;21(1):61–70

Recruiting and retaining low–income Latinos in psychotherapy research. Miranda J, et al. **J Consult Clin Psychol** 1996 Oct;64(5):868–74

Effect of primary care on hospitalization. Hovendon J, et al. **J Fam Pract** 1996 Dec;43(6):534–5

Primary care and patient perceptions of access to care. Stewart AL, et al. **J Fam Pract** 1997 Feb;44(2):177–85

Access and barriers to mammography in New England community health centers. Valdini A, et al. **J Fam Pract** 1997 Sep;45(3):243–9

African American women. Disparities in health care. Gary F, et al. **J Fla Med Assoc** 1996 Aug–Sep;83(7):489–93 (26 ref.)

Correlates of controlled hypertension in indigent, inner–city hypertensive patients. Ahluwalia JS, et al. **J Gen Intern Med** 1997 Jan;12(1):7–14

Hospitalized pneumonia. Outcomes, treatment patterns, and costs in urban and rural areas. Lave JR, et al. **J Gen Intern Med** 1996 Jul;11(7):415–21

AIDS clinical trials. Is there access for all? [editorial; comment] Lynn LA. **J Gen Intern Med** 1997 Mar; 12(3):198–9. Comment on: J Gen Intern Med 1997 Mar;12(3):150–7.

Communication with non–English–speaking persons [letter] Reyes–Ortiz CA. **J Gen Intern Med** 1996 Aug;11(8):501

Community partnership to improve access to care for the poor and underserved [letter] Shi L, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):290–5

Cancer–screening determinants among Hispanic women using migrant health clinics. Skaer TL, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):338–54

Family, work, and access to health insurance among mature women. Meyer MH, et al. **J Health Soc Behav** 1996 Dec; 37(4):311–25

Does distance between home and transplantation center adversely affect patient outcomes after heart transplantation? Rodkey SM, et al. **J Heart Lung Transplant** 1997 May;16(5):496–503

Medical ethics in the developing world: a liberation theology perspective. Anjos MF. **J Med Philos** 1996 Dec; 21(6):629–37

Medicaid patients access specialists [news] **J Miss State Med Assoc** 1997 Jul;38(7):281

Increasing access to health care: a study of pediatric nurse practitioner outcomes in a school–based clinic. Jones ME, et al. **J Nurs Care Qual** 1997 Apr;11(4):53–9

Transforming prenatal care [letter; comment] Uzych L. **J Obstet Gynecol Neonatal Nurs** 1996 Sep;25(7):554. Comment on: J Obstet Gynecol Neonatal Nurs 1996 Jan;25(1):17–23.

Worksite barriers to the effective management of alcohol problems. Bell NS, et al. **J Occup Environ Med** 1996 Dec; 38(12):1213–9

Initiation of prenatal care among women having a live birth in Oklahoma. The Maternal and Child Health Service, Oklahoma State Department of Health. **J Okla State Med Assoc** 1996 Sep;89(9):328–32

A call for universal health coverage? [letter] [corrected and republished letter originally printed in J Okla State Med Assoc 1997 May–Jun;90(5):199–200] Dewberry GP Jr. **J Okla State Med Assoc** 1997 Jul–Aug;90(6):342–3

Health care of Oklahoma Indians. Rhoades ER, et al. **J Okla State Med Assoc** 1996 May;89(5):165–72

Opioid availability in Latin America: the Santo Domingo report progress since the Declaration of Florianopolis. De Lima L, et al. **J Pain Symptom Manage** 1997 Apr; 13(4):213–9

Use of alternative therapies: estimates from the 1994 Robert Wood Johnson Foundation National Access to Care Survey. Paramore LC. **J Pain Symptom Manage** 1997 Feb; 13(2):83–9

Pediatric palliative care: building the model, bridging the gaps. Frager G. **J Palliat Care** 1996 Autumn;12(3):9–12 (17 ref.)

Opinions in pediatric and adolescent gynecology. Juszczak L, et al. **J Pediatr Adolesc Gynecol** 1997 Feb;10(1):45–8

Perception of risk, choice of maternity site, and socio economic level of twin mothers. Papiernik E, et al. **J Perinat Med** 1997;25(2):139–45

Collaborative care for obstetric patients at low and high risk: an evolving model. Boudreaux MC, et al. **J Perinatol** 1997 Jan–Feb;17(1):33–6

The gateclosing of the American health care system. Kjervik DK. **J Prof Nurs** 1996 Nov–Dec;12(6):337

Services for perinatal women with substance abuse and mental health disorders: the unmet need. Grella CE. **J Psychoactive Drugs** 1997 Jan–Mar;29(1):67–78 (53 ref.)

Comparison of access and costs of Medicaid dental services in a hospital clinic and community practices. Marcus M, et al. **J Public Health Dent** 1996 Fall;56(6):341–6

Access to psychiatric care; the results of the Pathways to Care study in Preston. Harrison J, et al. **J Public Health Med** 1997 Mar;19(1):69–75

Provision of environmental control systems in the north west of England. McDonald P, et al. **J Public Health Med** 1996 Dec;18(4):443–8

Inequitable variation [letter; comment] Holland W. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):396. Comment on: J R Coll Physicians Lond 1996 Jan–Feb;30(1):8–9.

Unmet service needs of children with rheumatic diseases and their parents in a metropolitan area. Lineker SC, et al. **J Rheumatol** 1996 Jun;23(6):1054–8

Shots for tots: Louisiana's infant immunization initiative. Broussard LA, et al. **J Soc Pediatr Nurs** 1996 Oct–Dec; 1(3):113–6

A qualitative study of barriers to formal treatment among women who self–managed change in addictive behaviours. Copeland J. **J Subst Abuse Treat** 1997 Mar–Apr; 14(2):183–90

Protecting the health of children of immigrants. Innocent victims of adult policy [editorial; comment] Lewin J. **JAMA** 1997 Feb 26;277(8):672. Comment on: JAMA 1997 Feb 26;277(8):636–41.

Patient satisfaction with Medicaid managed care [letter; comment] Schilling PJ. **JAMA** 1996 Oct 23–30; 276(16):1297; discussion 1297–8. Comment on: JAMA 1996 Jul 3;276(1):50–5.

Patient satisfaction with Medicaid managed care [letter; comment] Zuniga MA, et al. **JAMA** 1996 Oct 23–30; 276(16):1297; discussion 1297–8. Comment on: JAMA 1996 Jul 3;276(1):50–5.

Linking customer judgments with process measures to improve access to ambulatory care. Anctil B, et al. **Jt Comm J Qual Improv** 1996 May;22(5):345–57

Health care under the Taliban [see comments] Faiz A. **Lancet** 1997 Apr 26;349(9060):1247–8. Comment in: Lancet 1997 Jun 28;349(9069):1916.

HIV–prevention strategies [comment] Gostin L. **Lancet** 1997 May 10;349(9062):1394–5. Comment on: Lancet 1997 Mar 1;349(9052):604–8.

Health care under the Taliban [letter; comment] Reyburn H, et al. **Lancet** 1997 Jun 28;349(9069):1916. Comment on: Lancet 1997 Apr 26;349(9060):1247–8.

Living conditions, inequalities in health, human rights and security: a European perspective in a global context. Middleton J. **Med Confl Surviv** 1996 Jul–Sep;12(3):240–53 (76 ref.)

Health and welfare data on optical memory cards in Isehara city. Sakashita Y, et al. **Med Inf (Lond)** 1996 Jan–Mar; 21(1):69–79

Breast cancer in rural Australia. Furnival CM. **Med J Aust** 1997 Jan 6;166(1):25–6

Hard times for homeless people. Herrman HE. **Med J Aust** 1996 Dec 2–16;165(11–12):629

Asylum seekers: general health status and problems with access to health care. Sinnerbrink I, et al. **Med J Aust** 1996 Dec 2–16;165(11–12):634–7

Breast cancer management: a rural perspective. Tulloh BR, et al. **Med J Aust** 1997 Jan 6;166(1):26–9

Caring for persons with AIDS in greater Minnesota. Chial H, et al. **Minn Med** 1997 Feb;80(2):43–5

Direct access to ob/gyns is about women, not turf [letter] Strathy JH. **Minn Med** 1997 Jul;80(7):4–5

Philosophic perspectives on access to health care: distributive justice in health care. Buchanan A. **Mt Sinai J Med** 1997 Mar;64(2):90–5

Public policy. The health care juggling act: balancing universal access, cost containment, and quality improvement. Chassin MR. **Mt Sinai J Med** 1997 Mar; 64(2):101–4

Religious perspectives on access to health care: a Catholic perspective. Fahey MC. **Mt Sinai J Med** 1997 Mar; 64(2):80–3

Religious perspectives on access to health care: a protestant perspective. Forbes JA Jr. **Mt Sinai J Med** 1997 Mar; 64(2):75–9

Philosophic perspectives on access to health care. Putting the care into health care. Haber JG. **Mt Sinai J Med** 1997 Mar;64(2):96–100

Public policy. A doctor's perspective. Hirschhorn K. **Mt Sinai J Med** 1997 Mar;64(2):105–7

Religious perspectives on access to health care: a Jewish perspective. Wechsler RH. **Mt Sinai J Med** 1997 Mar;

64(2):84–9
Conjoint Report. To the North Carolina Medical Society and the North Carolina Commission for Health Services. Levine RH. **N C Med J** 1997 Jan–Feb;58(1):10–1
The HMO backlash—righteous or reactionary? [see comments] Bodenheimer T. **N Engl J Med** 1996 Nov 21; 335(21):1601–4. Comment in: N Engl J Med 1997 May 1;336(18):1329.
Improving outpatient psychiatric care [editorial; comment] Michels R. **N Engl J Med** 1997 Feb 20;336(8):578–9. Comment on: N Engl J Med 1997 Feb 20;336(8):551–7.
Graduate medical education: where do we go from here? Berlin B. **N J Med** 1996 Aug;93(8):23–5
Interview with Dr. C. Everett Koop [interview by Bill Berlin] Koop CE. **N J Med** 1996 Aug;93(8):17–21
Inequities in access to and utilisation of primary medical care services for Maori and low income New Zealanders. Malcolm L. **N Z Med J** 1996 Sep 27;109(1030):356–8
C.A.T.C.H.: Community Access to Coordinated Healthcare. Reichenbach EM, et al. **Nebr Med J** 1996 Dec;81(12):400–5 (9 ref.)
Equitable access to cancer services in the 21st century. Facione NC, et al. **Nurs Outlook** 1997 May–Jun; 45(3):118–24 (32 ref.)
Factors related to the initiation of prenatal care in the adolescent nullipara. Baker TJ. **Nurse Pract** 1996 Feb; 21(2):26, 29–32, 42
Occupational health services in manufacturing industries in Nigeria. Isah EC, et al. **Occup Med (Oxf)** 1996 Oct; 46(5):333–6
Getting a Pap smear: focus group responses of African American and Latina women. Jennings KM. **Oncol Nurs Forum** 1997 Jun;24(5):827–35
Practice guidelines: patients' perspective. Stovall EL. **Oncology (Huntingt)** 1996 Nov;10(11 Suppl):255–60
Providing a primary care open access clinic for osteoporosis. Fordham JN. **Osteoporos Int** 1996;6 Suppl 2:26–7
A population-based study of the coverage of cancer patients by hospice services. Hunt R, et al. **Palliat Med** 1996 Jan; 10(1):5–12
HMOs and the barriers to access for the pediatric population requiring emergency medical services. Uva JL. **Pediatr Emerg Care** 1996 Jun;12(3):189–200
Structure of a primary care support system to coordinate comprehensive care for children and families infected/affected by human immunodeficiency virus in a managed care environment. Havens PL, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):211–6
Socioeconomic status, health, and health systems [comment] Genel M. **Pediatrics** 1997 Jun;99(6):888–9. Comment on: Pediatrics 1997 Jun;99(6):774–84.
Students' acquisition and use of school condoms in a high school condom availability program. Schuster MA, et al. **Pediatrics** 1997 Oct;100(4):689–94
Peritoneal dialysis by twin bags is a good alternative to hemodialysis for sparsely populated areas [letter] Stegmayr BG, et al. **Perit Dial Int** 1997 Jan–Feb;17(1):95–6
A comparison of resource use and cost in direct access versus physician referral episodes of physical therapy. Mitchell JM, et al. **Phys Ther** 1997 Jan;77(1):10–8
The homeless. Abdul-Hamid W, et al. **Postgrad Med J** 1996 Nov;72(853):667–70 (49 ref.)
Community education programs to promote mammography participation in rural New York State. Flynn BS, et al. **Prev Med** 1997 Jan–Feb;26(1):102–8
Relationships between self-care resources and the quality of life of persons with heart failure: a comparison of treatment groups. Baas LS, et al. **Prog Cardiovasc Nurs** 1997 Winter; 12(1):25–38
Consensus panel examines reasons why most patients with depression get inadequate care [news] **Psychiatr Serv** 1997 Mar;48(3):415
Impact of an easy-access VA clinic-based program for patients with bipolar disorder. Bauer MS, et al. **Psychiatr Serv** 1997 Apr;48(4):491–6
Barriers to effective psychiatric emergency services for elderly persons. Colenda CC, et al. **Psychiatr Serv** 1997 Mar;48(3):321–5
Patient service requests [letter; comment] Hoencamp E. **Psychiatr Serv** 1996 Oct;47(10):1128–9. Comment on: Psychiatr Serv 1996 Mar;47(3):287–92.
Travel times and radiotherapy uptake in two English counties. Cosford P, et al. **Public Health** 1997 Jan; 111(1):47–50
Traveling for care: factors influencing health care access for rural dwellers. Horner SD, et al. **Public Health Nurs** 1994 Jun;11(3):145–9
Access to health promotion, protection, and disease prevention among impoverished individuals. Northam S. **Public Health Nurs** 1996 Oct;13(5):353–64
Breast cancer screening in older women. Caplan LS, et al. **Public Health Rev** 1996;24(2):193–204
In what ways do characteristics of psychiatric services determine contact rates and use of services? The Nordic Comparative Study on Sectorized Psychiatry [editorial; comment] Hansson L. **Soc Psychiatry Psychiatr Epidemiol** 1997 Jan;32(1):3–4. Comment on: Soc Psychiatry Psychiatr Epidemiol 1997 Jan;32(1):12–8.
Empowering patients: issues and strategies. Anderson JM. **Soc Sci Med** 1996 Sep;43(5):697–705 (42 ref.)
Inequalities in health related to women's marital, parental, and employment status—a comparison between the early 70s and the late 80s, Norway. Elstad JI. **Soc Sci Med** 1996 Jan;42(1):75–89
The role of access in explaining state abortion rates. Gober P. **Soc Sci Med** 1997 Apr;44(7):1003–16
Equity in the access to mammography in Spain. Luengo S, et al. **Soc Sci Med** 1996 Oct;43(8):1263–71
Services for spinal cord injured: availability and satisfaction. Post MW, et al. **Spinal Cord** 1997 Feb;35(2):109–15
Welfare reform. BeSaw L. **Tex Med** 1996 Dec;92(12):50–4
Immigrants needing health care in Texas. Hargraves MA. **Tex Med** 1996 Oct;92(10):64–77
Beyond ADA. Price CL. **Tex Med** 1996 Sep;92(9):37–41
Health service accessibility and deaths from asthma [editorial; comment] Garrett JE. **Thorax** 1997 Mar;52(3):205–6. Comment on: Thorax 1997 Mar;52(3):218–22.
A statewide, population-based, time series analysis of access to liver transplantation. Tuttle-Newhall JE, et al. **Transplantation** 1997 Jan 27;63(2):255–62
Why wait so long for child care? An analysis of waits, queues and work in a South African urban health centre. Bachmann MO, et al. **Trop Doct** 1997 Jan;27(1):34–8
How to bring surgery to remote tribal areas. Gnanaraj J, et al. **Trop Doct** 1997 Jul;27(3):163–5
Observed versus expected obstetric complications: an assessment of coverage of obstetric care in developing countries. Pittrof R. **Trop Doct** 1997 Jan;27(1):25–9
A coverage plan for health centres in Murewa district in Zimbabwe: an example of action research. Criel B, et al. **Trop Med Int Health** 1996 Oct;1(5):699–709
Medical care for the underclass. Houck PW. **Va Med Q** 1997 Summer;124(3):146
Patients of Dr Suits walk miles for care. Fessler JL. **Wis Med J** 1996 Aug;95(8):547–8
Life in the country: physicians discuss practicing in rural Wisconsin. Kennedy M. **Wis Med J** 1997 Aug;96(8):17–21
Rural medicine: it's come a long way. Osborn SL. **Wis Med J** 1997 Aug;96(8):5–6
Professional perceptions of availability and quality of mental health services in Wisconsin. Taman MS, et al. **Wis Med J** 1997 Jan;96(1):40–5
Talking about health and health care: experiences and perspectives of Latina women in a farmworking community. Farr KA, et al. **Women Health** 1997; 25(2):23–40
Women's access to appropriate providers within managed care: implications for the quality of primary care. Bartman BA. **Womens Health Issues** 1996 Jan–Feb;6(1):45–50 (21 ref.)
Is the lack of health insurance the major barrier to early prenatal care at an inner-city hospital? Parchment W, et al. **Womens Health Issues** 1996 Mar–Apr;6(2):97–105
Looking after eyes: the primary task. Al Tuwaijri A. **World Health Forum** 1996;17(1):21–4
[Equity and exclusion from health care. From research to action, the experiences from one non-government organization] de La Rocque M. **Sante** 1996 Nov–Dec; 6(6):341–4 (Eng. Abstr.) **(Fre)**
[Attitude of established physicians to medical rehabilitation: an empirical study of the access to rehabilitation problem] Vogel H, et al. **Rehabilitation (Stuttg)** 1997 May; 36(2):96–105 (Eng. Abstr.) **(Ger)**
[Open access upper endoscopy—"good or bad for the Jews?" (editorial)] Oren R, et al. **Harefuah** 1997 May 15; 132(10):703–4 **(Heb)**
[Terminal care at home of aged] Suzuki S. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):17–22 (Eng. Abstr.) **(Jpn)**
[Patients' advocate or defender of the welfare state?] Bruusgaard D. **Tidsskr Nor Laegeforen** 1996 Aug 30; 116(20):2455–7 (Eng. Abstr.) **(Nor)**
[Regional differences in health care services. What is needed for a more unified practice?] Holmboe J. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2291 **(Nor)**
[Guardians of the welfare state?] Nessa J. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2452–4 (Eng. Abstr.) **(Nor)**
[Validity of the attendance pressure indicator in a primary care area] Rodríguez Ortiz de Salazar B, et al. **Aten Primaria** 1997 Feb 15;19(2):84–8 (Eng. Abstr.) **(Spa)**
[Socioeconomic differences in the use and accessibility of health care services in Spain] Regidor E, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):285–8 (Eng. Abstr.) **(Spa)**
[Basic cardiopulmonary resuscitation in the mountains and other isolated situations] Botella de Maglia J. **Rev Clin Esp** 1997 Feb;197(2):112–8 (74 ref.) **(Spa)**
[Health inequalities: metropolitan region and southeast and west metropolitan health services] Solís F, et al. **Rev Med Chil** 1995 Oct;123(10):1297–1305 (Eng. Abstr.) **(Spa)**
[Equal health care] Allebeck P. **Lakartidningen** 1996 Oct 16; 93(42):3667–8 **(Swe)**
[The welfare wall is cracked. Low-educated people are not favoured by health services] Haglund B, et al. **Lakartidningen** 1996 Oct 16;93(42):3672, 3675–7 **(Swe)**

ECONOMICS

The response of injection drug users to free treatment on demand: implications for HIV control. Sibthorpe B, et al. **Am J Drug Alcohol Abuse** 1996 May;22(2):203–13
The costs and effects of cervical and breast cancer screening in a public hospital emergency room. The Cancer Control Center of Harlem. Mandelblatt J, et al. **Am J Public Health** 1997 Jul;87(7):1182–9
Hospital utilization in Ontario and the United States: the impact of socioeconomic status and health status. Katz SJ, et al. **Can J Public Health** 1996 Jul–Aug;87(4):253–6
The effects of economic conditions and access to reproductive health services on state abortion rates and birthrates. Matthews S, et al. **Fam Plann Perspect** 1997 Mar–Apr;29(2):52–60
Predictors of dental use for low-income, urban elderly persons upon removal of financial barriers. Strayer MS, et al. **Gerontologist** 1997 Feb;37(1):110–6
The status of local health care safety nets. Baxter RJ, et al. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):7–23
Children's access to mental health care: does insurance matter? Glied S, et al. **Health Aff (Millwood)** 1997 Jan–Feb; 16(1):167–74
Health insurance and the homeless. Kreider B, et al. **Health Econ** 1997 Jan–Feb;6(1):31–41
Patterns of pharmacy participation in Medicaid: implications for enrollee access. Adams EK, et al. **Inquiry** 1996–97 Winter;33(4):339–51
The impact of insurance on access to physician services for elderly people with arthritis. Grana J, et al. **Inquiry** 1996–97 Winter;33(4):326–38
The effects of health insurance on access to new medical technologies. Ramsey SD, et al. **Int J Technol Assess Health Care** 1997 Spring;13(2):357–67
Access to oral health services [letter] Rosenbloom J. **J Can Dent Assoc** 1996 Dec;62(12):921
The Medicare-to-private payment gap: is Medicare the "high" payer? American Medical Association Center for Health Policy Research. **J Miss State Med Assoc** 1997 May; 38(5):174–6
How economic demand influences access to medical care for rural Hispanic children. Smith MW, et al. **Med Care** 1996 Nov;34(11):1135–48
Health insurance and medical schemes in Papua New Guinea. Ambihaipahar U, et al. **Med Law** 1996;15(4):633–42
"Uninsured Missourians". Mills P. **Mo Med** 1996 Apr; 93(4):177–9
Access to health care for women [letter; comment] Baylis F, et al. **N Engl J Med** 1997 Jun 19;336(25):1841. Comment on: N Engl J Med 1997 Jan 16;336(3):218–21.
Effect of Medicaid reimbursement rates on children's access to dental care. Nainar SM, et al. **Pediatr Dent** 1997 Jul–Aug;19(5):315–6
Why elderly veterans choose VA services [letter] Ponce H, et al. **Psychiatr Serv** 1997 Jan;48(1):106–7
The poor pay more: health-related inequality in Thailand. Pannarunothai S, et al. **Soc Sci Med** 1997 Jun; 44(12):1781–90
Improving access to health care for all Virginians. Trigon Blue Cross Blue Shield. Grinnan R. **Va Med Q** 1997 Summer;124(3):160–1
Access to cancer care and clinical trials: a time for reappraisal [editorial] Runowicz CD, et al. **Womens Health Issues** 1996 Mar–Apr;6(2):112–3
[Does cost control in health care impose health care rationing? (editorial)] Meine J. **Swiss Surg** 1996;2(4):141–2 **(Fre)**

HISTORY

Hospitals and Civil Rights, 1945–1963: the case of Simkins v Moses H. Cone Memorial Hospital [see comments] Reynolds PP. **Ann Intern Med** 1997 Jun 1;126(11):898–906 . Comment in: Ann Intern Med 1997 Jun 1;126(11):910–2.
[Reconstruction of the distribution of wound surgeons in the Württemberg kingdom. A contribution to the social history of routine surgeons in the 19th century] Gross D. **Medizinhist J** 1997;32(1):57–81 **(Ger)**

LEGISLATION & JURISPRUDENCE

Children, medicine, religion, and the law. Swan R. **Adv Pediatr** 1997;44:491–543 (205 ref.)
The right to a family environment for children with disabilities. Weisz V, et al. **Am Psychol** 1996 Dec; 51(12):1239–45 (63 ref.)
Welfare reform and food insecurity: influence on children [see comments] Willis E, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9):871–5 (23 ref.) . Comment in: Arch Pediatr Adolesc Med 1997 Sep;151(9):870.
Ruling on physician-assisted suicide near top of agenda at US Supreme Court. Capen K. **CMAJ** 1997 Jul 15; 157(2):169–71
Civil rights in a changing health care system. Rosenbaum S, et al. **Health Aff (Millwood)** 1997 Jan–Feb;16(1):90–105 (24 ref.)
Perspectives of Latina immigrant women on Proposition 187. Moss N, et al. **J Am Med Womens Assoc** 1996 Aug–Oct; 51(4):161–5
Arizona overwhelmingly adopts health care initiative. Nichols AW. **JAMA** 1997 May 28;277(20):1645–8
Doctor–patient confidentiality on the line [letter] Katze JA. **Md Med J** 1996 Feb;45(2):97
Vital needs, human rights, health care law. Tranöy KE. **Med Law** 1996;15(2):183–8
Minnesota enacts patient protections [news] Christensen RG.

Minn Med 1997 Jul;80(7):34
Is health care a right? Madduri SD. **Mo Med** 1996 Apr; 93(4):180–1
Managed care and the next generation of mental health law. Appelbaum PS. **New Dir Ment Health Serv** 1996 Winter; (72):65–9 (8 ref.)
Patient Protection Act: the right thing for patients and physicians [editorial] Urban F. **Wis Med J** 1997 May; 96(5):9–10

ORGANIZATION & ADMINISTRATION

Care without barriers [letter; comment] Frankford B. **Can Med Assoc J** 1997 Feb 15;156(4):481. Comment on: Can Med Assoc J 1996 Dec 15;155(12):1737–9.
Effect of primary care referral on emergency department use: evaluation of a statewide Medicaid program. Gill JM, et al. **Del Med J** 1996 Sep;68(9):437–42
Taking family planning services to hard–to–reach populations. Donovan P. **Fam Plann Perspect** 1996 May–Jun;28(3):120–6
Culturally specific health care model for ensuring health care use by rural, ethnically diverse families affected by HIV/AIDS. Goicoechea–Balbona AM. **Health Soc Work** 1997 Aug;22(3):172–80
Universal health care coverage in the United States: barriers, prospects, and implications. Gorin S. **Health Soc Work** 1997 Aug;22(3):223–30 (80 ref.)
Integration of chiropractic into managed care in a multidisciplinary setting. White AH. **J Manipulative Physiol Ther** 1995 Nov–Dec;18(9):626–7
A call for universal health coverage [letter; comment] [corrected and republished in J Okla State Med Assoc 1997 Jul–Aug;90(6):342–3] Dewberry GP. **J Okla State Med Assoc** 1997 May–Jun;90(5):199–200. Comment on: J Okla State Med Assoc 1997 Apr;90(4):150–6.
Report of the Ad Hoc Committee on the Oklahoma Health Care Authority and SoonerCare [news] McCaffree MA, et al. **J Okla State Med Assoc** 1997 May–Jun;90(5):195–203
Pathways to orthodontic care. Kisely S, et al. **J Public Health Med** 1997 Jun;19(2):148–55
Variation in access to outpatient substance abuse treatment: organizational factors and conceptual issues. McCaughrin WC, et al. **J Subst Abuse** 1996;8(4):403–15
Good news for people with spinal cord injuries. Clarke AM. **N Z Med J** 1997 Sep 12;110(1051):325–6
Easier access to MRI scanning? Moore N. **Practitioner** 1996 Sep;240(1566):522–31 (6 ref.)
New rights for deaf patients; new responsibilities for mental hospitals. Raifman LJ, et al. **Psychiatr Q** 1996 Fall; 67(3):209–20 (18 ref.)
Developing health in the Cape [news] Jones JS. **S Afr Med J** 1997 May;87(5):570
Accessibility and utilization of occupational health services. Plomp HN. **Scand J Work Environ Health** 1996 Jun; 22(3):216–22
Maternal mortality and the problem of accessibility to obstetric care; the strategy of maternity waiting homes. Figà–Talamanca I. **Soc Sci Med** 1996 May;42(10):1381–90
Community health centers. Providing access to care in Virginia's medically underserved areas. Cafazza JB Jr. **Va Med Q** 1997 Summer;124(3):167–9
The Virginia Health Care Foundation. Meeting the challenge. Middleditch LB Jr. **Va Med Q** 1997 Summer; 124(3):166

STANDARDS

Accessing primary care services [letter; comment] Weinkauf DJ. **Can Fam Physician** 1997 Jun;43:1047–8. Comment on: Can Fam Physician 1997 Apr;43:677–83, 733.
Increasing the availability of vasectomy in public–sector clinics. Haws JM, et al. **Fam Plann Perspect** 1997 Jul–Aug; 29(4):185–6, 190
Heart disease and associated risk factors among Hawaiians: culturally responsive strategies. Mokuau N, et al. **Health Soc Work** 1995 Feb;20(1):46–51 (20 ref.)
Health care delivery and the status of the population's health in the current crises in former Yugoslavia using EPI–design methodology. Legetic B, et al. **Int J Epidemiol** 1996 Apr; 25(2):341–8
Factors affecting access to prenatal care for U.S./Mexico border–dwelling Hispanic women. Zaid A, et al. **J Nurse Midwifery** 1996 Jul–Aug;41(4):277–84
Health care of Oklahoma Indians. Rhoades ER, et al. **J Okla State Med Assoc** 1996 May;89(5):165–72
Academy of hospice physicians' position statement on access to hospice and palliative care. Byock IR, et al. **J Pain Symptom Manage** 1996 Feb;11(2):69–70
A survey of general practitioners: implications for the hospital/community interface [see comments] Grimmer K, et al. **J Qual Clin Pract** 1996 Dec;16(4):185–94. Comment in: J Qual Clin Pract 1996 Dec;16(4):181–2.
Determinants of regular source of care among homeless adults in Los Angeles. Gallagher TC, et al. **Med Care** 1997 Aug;35(8):814–30
Competition, ownership, and access to hospital services. Evidence from psychiatric hospitals. Schlesinger M, et al. **Med Care** 1997 Sep;35(9):974–92
Barriers to cancer treatment: a review of published research. Guidry JJ, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1393–8 (18 ref.)
Reasons for delay in breast cancer diagnosis. Caplan LS, et al. **Prev Med** 1996 Mar–Apr;25(2):218–24
The chronic patient. "Breaking down the barriers": commentary on a conference theme. Bachrach LL. **Psychiatr Serv** 1997 Mar;48(3):281–2, 294
Focus groups among public, military, and private sector mothers: insights to improve the immunization process. Houseman C, et al. **Public Health Nurs** 1997 Aug; 14(4):235–43
Disparities in breast cancer screening: is it ethical? Caplan LS. **Public Health Rev** 1997;25(1):31–41
Access and utilization: a continuum of health service environments. Rosenberg MW, et al. **Soc Sci Med** 1996 Sep;43(6):975–83
Improving access to care. Carilion Health System. Surrusco RM. **Va Med Q** 1997 Summer;124(3):156–9
Satisfaction with access to and quality of health care among Medicare enrollees in a health maintenance organization. Meng YY, et al. **West J Med** 1997 Apr;166(4):242–7
[Women with little or no prenatal care during pregnancy. Results of a study of twenty departments] Blondel B, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(7):729–36 (Eng. Abstr.) **(Fre)**

STATISTICS & NUMERICAL DATA

Periodontal status among male industrial workers in southern Finland with or without access to subsidized dental care. Ahlberg J, et al. **Acta Odontol Scand** 1996 Jun;54(3):166–70
Predicting dentists' willingness to treat HIV–infected patients. Sadowsky D, et al. **AIDS Care** 1996 Oct;8(5):581–8
Do increased levels of drug abuse treatment lead to fewer drug–related problems? Smart RG, et al. **Am J Drug Alcohol Abuse** 1997 Aug;23(3):421–9
Identifying predictors of satisfaction with access to medical care and quality of care. Jatulis DE, et al. **Am J Med Qual** 1997 Spring;12(1):11–8
Health care utilization barriers among Mexican Americans: evidence from HHANES 1982–84. Estrada AL, et al. **Am J Public Health** 1990 Dec;80 Suppl:27–31
The distance to community medical care and the likelihood of hospitalization: is closer always better? Goodman DC, et al. **Am J Public Health** 1997 Jul;87(7):1144–50
Pneumococcal pneumonia and influenza vaccination: access to and use by US Hispanic Medicare beneficiaries. Mark TL, et al. **Am J Public Health** 1996 Nov;86(11):1545–50
Measuring access to prenatal care in New York City: a telephone survey of prenatal clinics. Schwartz LR, et al. **Am J Public Health** 1996 Oct;86(10):1474–5
Acculturation, access to care, and use of preventive services by Hispanics: findings from HHANES 1982–84. Solis JM, et al. **Am J Public Health** 1990 Dec;80 Suppl:11–9
Acute rheumatic fever in an Arabian Gulf country––effect of climate, advantageous socioeconomic conditions, and access to medical care. Eltohami EA, et al. **Angiology** 1997 Jun;48(6):481–9
A traumatic deterioration in general surgeons access to emergency theatre. Ramesh S, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2 Suppl):66–7
Shelter–based homeless youth. Health and access to care. Ensign J, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):817–23
Access to and use of physician resources by the rural and urban populations in Manitoba. Fakhoury WK, et al. **Can J Public Health** 1996 Jul–Aug;87(4):248–52
Ensuring access to abortion in an era of cutbacks [editorial] Powell MG. **Can Med Assoc J** 1997 Jun 1;156(11):1545–7
MIG ACCESS: a population–based, nationwide, comparative survey of access to care in migraine in France [published erratum appears in Cephalalgia 1996 May;16(3):213] Michel P, et al. **Cephalalgia** 1996 Feb;16(1):50–5; discussion 4
Addressing the barriers to mental health services for inner city children and their caretakers. McKay MM, et al. **Community Ment Health J** 1996 Aug;32(4):353–61
Ethnic differences in diabetes care in a multiethnic community in New Zealand. Simmons D, et al. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S89–93
Inequities in health and the region of the Americas. **Epidemiol Bull** 1996 Sep;17(3):1–9
The use of household surveys in community–oriented primary care health needs assessments. Taylor BR, et al. **Fam Med** 1996 Jun;28(6):415–21
Prevalence of open–access gastrointestinal endoscopy in the United States [see comments] Mahajan RJ, et al. **Gastrointest Endosc** 1997 Jul;46(1):21–6. Comment in: Gastrointest Endosc 1997 Jul;46(1):84–7.
Access to the emergency psychiatry system in Japan. Kishi Y, et al. **Gen Hosp Psychiatry** 1997 Mar;19(2):130–7
Open access gastroscopy: second survey of current practice in the United Kingdom. Silcock JG, et al. **Gut** 1997 Feb; 40(2):192–5
The social and health characteristics of California cities. Andrulis DP, et al. **Health Aff (Millwood)** 1996 Spring; 15(1):131–42
Effect of Proposition 187 on mental health service use in California: a case study. Fenton JJ, et al. **Health Aff (Millwood)** 1996 Spring;15(1):182–90
Physician supply and access to care in urban communities [see comments] Grumback K, et al. **Health Aff (Millwood)** 1997 Jan–Feb;16(1):71–86. Comment in: Health Aff (Millwood) 1997 Jan–Feb;16(1):87–9.
Access to care in HMOs and traditional insurance plans. Mark T, et al. **Health Aff (Millwood)** 1996 Winter; 15(4):81–7
Access to care in Medicare HMOs, 1996. Nelson L, et al. **Health Aff (Millwood)** 1997 Mar–Apr;16(2):148–56
Equity in health care utilization: further tests based on hurdle models and Swedish micro data. Gerdtham UG. **Health Econ** 1997 May–Jun;6(3):303–19
High maternal mortality levels and additional risk from poor accessibility in two districts of northern province, Zambia. Le Bacq F, et al. **Int J Epidemiol** 1997 Apr;26(2):357–63
The effects of race on the use of physician's services. Fichtenbaum R, et al. **Int J Health Serv** 1997;27(1):139–56
Under use of coronary angiography: application of a clinical method. Laouri M, et al. **Int J Qual Health Care** 1997 Feb; 9(1):15–22
Access to community–based medical services and number of hospitalizations among patients with HIV disease: are they related? Cunningham WE, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Dec 1;13(4):327–35
Use of health services by urban youth: a school–based survey to assess differences by grade level, gender, and risk behavior. Aten MJ, et al. **J Adolesc Health** 1996 Oct; 19(4):258–66
Managed care and Asian Pacific Island women. Wang GM. **J Am Med Womens Assoc** 1996 Aug–Oct;51(4):146, 152
Women and managed care: satisfaction with provider choice, access to care, plan costs and coverage. Wyn R, et al. **J Am Med Womens Assoc** 1997 Spring;52(2):60–4
Does a centralized radiotherapy system provide adequate access to care? Mackillop WJ, et al. **J Clin Oncol** 1997 Mar;15(3):1261–71
Access to ambulatory care for adolescents: the role of a usual source of care. Bartman BA, et al. **J Health Care Poor Underserved** 1997 May;8(2):214–26
The effect of race and ethnicity on the use of selected health care procedures: a comparison of south central Los Angeles and the remainder of Los Angeles county. Carlisle DM, et al. **J Health Care Poor Underserved** 1996 Nov; 7(4):308–22
The degree of usual provider continuity for African and Latino Americans. Cornelius LJ. **J Health Care Poor Underserved** 1997 May;8(2):170–85
Health status of and access to health services by residents of urban encampments in Los Angeles. Cousineau MR. **J Health Care Poor Underserved** 1997 Feb;8(1):70–82
Language, sociodemographics, and health care use of Hispanic adults. Schur CL, et al. **J Health Care Poor Underserved** 1996 May;7(2):140–58
Health care access among Mexican Americans with different health insurance coverage. Treviño RP, et al. **J Health Care Poor Underserved** 1996 May;7(2):112–21
Lower utilization of dermatologists in managed care: despite growth in managed care, visits to dermatologists did not decrease: an analysis of National Ambulatory Medical Care Survey data, 1990–1992. Feldman SR, et al. **J Invest Dermatol** 1996 Dec;107(6):860–4
A global measure of access to mental health services for a managed care environment. Pandiani JA, et al. **J Ment Health Adm** 1997 Summer;24(3):268–77
Access to care in post–economic reform rural China: results from a 1994 cross–sectional survey. Shi L. **J Public Health Policy** 1996;17(3):347–61
Barriers to alcoholism treatment: reasons for not seeking treatment in a general population sample. Grant BF. **J Stud Alcohol** 1997 Jul;58(4):365–71
The impact of HIV infection on medical services in drug abuse treatment programs. Selwyn PA. **J Subst Abuse Treat** 1996 Sep–Oct;13(5):397–410; discussion 439 (85 ref.)
Medicaid enrollment and health services access by Latino children in inner–city Los Angeles [see comments] Halfon N, et al. **JAMA** 1997 Feb 26;277(8):636–41. Comment in: JAMA 1997 Feb 26;277(8):672.
Factors in accessibility of general practice in rural Australia. Humphreys JS, et al. **Med J Aust** 1997 Jun 2;166(11):577–80
Health care utilization [letter; comment] Devadasan N. **Natl Med J India** 1997 Mar–Apr;10(2):97–8. Comment on: Natl Med J India 1996 Nov–Dec;9(6):259–62.
Mortality and medical comorbidity among psychiatric patients: a review. Felker B, et al. **Psychiatr Serv** 1996 Dec; 47(12):1356–63 (67 ref.)
Diversity in VA settings [letter; comment] Kofoed L. **Psychiatr Serv** 1997 Jul;48(7):956–7. Comment on: Psychiatr Serv 1997 Jan;48(1):71–5.
Travel distance to outpatient treatment for depression. Marcus SC, et al. **Psychiatr Serv** 1997 Aug;48(8):1005
Travel distance to subspecialty and general mental health services. Marcus SC, et al. **Psychiatr Serv** 1997 Jun; 48(6):775
Client and site characteristics as barriers to service use by homeless persons with serious mental illness. Rosenheck R, et al. **Psychiatr Serv** 1997 Mar;48(3):387–90
Issues in the psychiatric care of Hispanics. Ruiz P. **Psychiatr Serv** 1997 Apr;48(4):539–40
Impact of the Mammography Quality Standards Act on access in Minnesota. Korn JE, et al. **Public Health Rep** 1997 Mar–Apr;112(2):142–5
The Nordic Comparative Study on Sectorized Psychiatry. III. Accessibility of psychiatric services, degree of urbanization and treated incidence. Saarento O, et al. **Soc Psychiatry Psychiatr Epidemiol** 1996 Sep;31(5):259–65
Socioeconomic inequity in health care: a study of services

utilization in Curaçao. Alberts JF, et al. **Soc Sci Med** 1997 Jul;45(2):213–20

The effect of spatial definition on the allocation of clients to screening clinics. Hyndman J, et al. **Soc Sci Med** 1997 Jul;45(2):331–40

Health care access and preventive care among Vietnamese immigrants: do traditional beliefs and practices pose barriers? Jenkins CN, et al. **Soc Sci Med** 1996 Oct; 43(7):1049–56

Comparing measures of health inequality. Manor O, et al. **Soc Sci Med** 1997 Sep;45(5):761–71

Ethnicity, equity and the use of health services in the British NHS. Smaje C, et al. **Soc Sci Med** 1997 Aug;45(3):485–96

Can market-based solutions work for all of Medicare? Barriers to reform in the Medicare population residing in health professional shortage areas. Kohrs FP. **South Med J** 1997 May;90(5):493–7

Health service accessibility and deaths from asthma in 401 local authority districts in England and Wales, 1988–92 [see comments] Jones AP, et al. **Thorax** 1997 Mar;52(3):218–22 . Comment in: Thorax 1997 Mar;52(3):205–6.

Access to health care. Part 2: Working-age adults. Bloom B, et al. **Vital Health Stat 10** 1997 Jul;(197):1–47

Access to health care. Part 3: Older adults. Cohen RA, et al. **Vital Health Stat 10** 1997 Jul;(198):1–32

Access to health care. Part 1: Children. Simpson G, et al. **Vital Health Stat 10** 1997 Jul;(196):1–46

Experiences of battered women in health care settings: a qualitative study. Gerbert B, et al. **Women Health** 1996; 24(3):1–17

[Need-based resource allocation--experiences with the RAWP formula in Great Britain] Brand H, et al. **Gesundheitswesen** 1997 Jul;59(7):441–6 (Eng. Abstr.) **(Ger)**

[Development of a model for explaining health inequality] Elkeles T, et al. **Gesundheitswesen** 1997 Mar;59(3):137–43 (68 ref.) (Eng. Abstr.) **(Ger)**

[Health status and medical care accessibility of single, homeless persons] Trabert G. **Gesundheitswesen** 1997 Jun; 59(6):378–86 (Eng. Abstr.) **(Ger)**

[Regional disparities in accessibility of inpatient treatment for elderly patients] Klein T, et al. **Z Gerontol Geriatr** 1996 Jan-Feb;29(1):65–75 (Eng. Abstr.) **(Ger)**

[Intra-provincial variation in nephrologic care: the importance of distant] Robles NR, et al. **An Med Interna** 1995 Nov;12(11):542–5 (Eng. Abstr.) **(Spa)**

TRENDS

Emergency department utilization by elder persons [editorial; comment] Sanders AB. **Acad Emerg Med** 1996 Jul; 3(7):658–9. Comment on: Acad Emerg Med 1996 Jul;3(7):694–9.

Health in China. The healthcare market. Hesketh T, et al. **BMJ** 1997 May 31;314(7094):1616–8

Health insurance coverage. Lewit EM, et al. **Future Child** 1995 Winter;5(3):192–204

State trends in hospital uncompensated care. Atkinson G, et al. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):233–41

Does the sale of nonprofit hospitals threaten health care for the poor? [see comments] Young GJ, et al. **Health Aff (Millwood)** 1997 Jan-Feb;16(1):137–41. Comment in: Health Aff (Millwood) 1997 May-Jun;16(3):270–2.

Temporary A&E at the Whittington [letter] Banerjee A, et al. **J Accid Emerg Med** 1996 May;13(3):230

Inequality, diversity, and health: thoughts on "race/ethnicity" and "gender". Krieger N. **J Am Med Womens Assoc** 1996 Aug-Oct;51(4):133–6

Race, resource use, and survival in seriously ill hospitalized adults. The SUPPORT Investigators. Phillips RS, et al. **J Gen Intern Med** 1996 Jul;11(7):387–96

Monitoring the impact of the Medicare Fee Schedule on access to care for vulnerable populations. Trude S, et al. **J Health Polit Policy Law** 1997 Feb;22(1):49–71

Delivering the goods? Access to family physician services in Canada: a comparison of 1985 and 1991. Eyles J, et al. **J Health Soc Behav** 1995 Dec;36(4):322–32

Water water every where..... [editorial] Bagchi AK. **J Indian Med Assoc** 1996 Apr;94(4):126

Medical education and health care reform. From Osler to AHEC. McMillan WO Jr. **N C Med J** 1996 May-Jun; 57(3):142–4; discussion 144–5

Management for quality: continuous quality improvement to increase access to outpatient mental health services. Keller GA. **Psychiatr Serv** 1997 Jun;48(6):821–5

The concept of equity in health services research. Krasnik A. **Scand J Soc Med** 1996 Mar;24(1):2–7

Dispersion Index: measuring trend assessment of geographical inequality in health--the example of under-five mortality in the Middle East/north African region, 1980–1994. Galal OM, et al. **Soc Sci Med** 1997 Jun; 44(12):1893–902

Access to health care in Virginia. Gordon RL, et al. **Va Med Q** 1997 Summer;124(3):152–5 (2 ref.)

HEALTH SERVICES, ADOLESCENT see **ADOLESCENT HEALTH SERVICES**

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION (U.S.) see **UNITED STATES SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES ADMINISTRATION**

HEALTH SERVICES FOR THE AGED

The role of the physician in geriatric medicine in the ageing society. In the community. Greveson G. **Age Ageing** 1994; 23 Suppl 3:S15–7

Prolonging life in elderly people: a worthwhile goal of medical care. Bulpitt CJ, et al. **Aging (Milano)** 1995 Oct; 7(5):402–6

A simple program to train case managers in community elderly care. Landi F, et al. **Aging (Milano)** 1996 Jun; 8(3):211–8

A district-wide examination of 75-year olds suggests discrimination in the provision of services. Vetter N, et al. **Aging (Milano)** 1996 Jun;8(3):205–10

Can occupational therapy intervention play a part in maintaining independence and quality of life in older people? A randomised controlled trial. Liddle J, et al. **Aust N Z J Public Health** 1996 Dec;20(6):574–8

Randomised controlled trial of effect of intervention by psychogeriatric team on depression in frail elderly people at home [see comments] Banerjee S, et al. **BMJ** 1996 Oct 26;313(7064):1058–61. Comment in: BMJ 1997 Feb 1;314(7077):377; discussion 378. Comment in: BMJ 1997 Feb 1;314(7077):378. Comment in: ACP J Club 1997 May-Jun;126(3):66.

Rationing health care. Access to treatment should be equal, regardless of age [letter; comment] Bowling A. **BMJ** 1997 Jun 28;314(7098):1902. Comment on: BMJ 1997 Mar 15;314(7083):820–5.

Aids to compliance with medication. Corlett AJ. **BMJ** 1996 Oct 12;313(7062):926–9 (5 ref.)

Why everyone over 65 deserves influenza vaccine [editorial] [see comments] Diguiseppi C. **BMJ** 1996 Nov 9; 313(7066):1162. Comment in: BMJ 1997 Feb 1;314(7077):373.

Looking after elderly sick people is core work in general practice [letter] Goss DB. **BMJ** 1997 Jan 4;314(7073):71

Old, frail people are marginalised in Japan [letter; comment] Iliffe S. **BMJ** 1997 Feb 15;314(7079):519. Comment on: BMJ 1996 Nov 2;313(7065):1133–5.

Caring for older people. Community services: health. Pushpangadan M, et al. **BMJ** 1996 Sep 28;313(7060):805–8 (6 ref.)

Caring for older people. Caring for carers should be included in undergraduate curriculum [letter; comment] Robinson L. **BMJ** 1996 Nov 30;313(7069):1402. Comment on: BMJ 1996 Aug 24;313(7055):482–6.

What happened to elderly people in the great Hanshin earthquake [see comments] Tanida N. **BMJ** 1996 Nov 2; 313(7065):1133–5 (6 ref.). Comment in: BMJ 1997 Feb 15;314(7079):519.

Surgical care in octogenarians. Bufalari A, et al. **Br J Surg** 1996 Dec;83(12):1783–7

Surgical care and outcome for patients in their nineties. Burns-Cox N, et al. **Br J Surg** 1997 Apr;84(4):496–8

Barriers and facilitators to seniors' independence. Perceptions of seniors, caregivers, and health care providers. Brown JB, et al. **Can Fam Physician** 1997 Mar;43:469–75

Referral to specialized geriatric services. Which elderly people living in the community are likely to benefit? Man-Son-Hing M, et al. **Can Fam Physician** 1997 May; 43:925–30

The STEPS Project: participatory action research to reduce falls in public places among seniors and persons with disabilities. Gallagher EM, et al. **Can J Public Health** 1997 Mar-Apr;88(2):129–33 (24 ref.)

Surgery in the elderly patient: a time for reappraisal. Caron JL. **Can J Surg** 1996 Apr;39(2):94–5

Multidisciplinary pain clinics for older people. Do they have a role? Helme RD, et al. **Clin Geriatr Med** 1996 Aug; 12(3):563–82 (19 ref.)

Home care in the older person. Repetto L, et al. **Clin Geriatr Med** 1997 May;13(2):403–13 (41 ref.)

Activities of daily living studied longitudinally between 70 and 76 years of age. Sonn U, et al. **Disabil Rehabil** 1996 Feb;18(2):91–100

Some lessons learned in the care of the elderly. Smythe CM. **Epilepsia** 1997;38 Suppl 4:S50–4 (9 ref.)

The demographic face of America's elderly. Waite LJ. **Inquiry** 1996 Fall;33(3):220–4

Determinants of non-compliance and attrition in the elderly. Slymen DJ, et al. **Int J Epidemiol** 1996 Apr;25(2):411–9

A roving clinic for residential homes [letter] **Int J Geriatr Psychiatry** 1997 Jun;12(6):682

The elderly homeless men in Bloomsbury hostels: their needs for services. Abdul-Hamid W. **Int J Geriatr Psychiatry** 1997 Jul;12(7):724–7

Dementia programme effectiveness in long-term care. Rosewarne R, et al. **Int J Geriatr Psychiatry** 1997 Feb; 12(2):173–82

Benefits of an accident and emergency short stay ward in the staged hospital care of elderly patients. Khan SA, et al. **J Accid Emerg Med** 1997 May;14(3):151–2

Health maintenance for the independent frail older adult: can it improve physical and mental well-being? Dungan JM, et al. **J Adv Nurs** 1996 Jun;23(6):1185–93

The problems of elderly people at home one week after discharge from an acute care setting. Mistiaen P, et al. **J Adv Nurs** 1997 Jun;25(6):1233–40

Improving pneumococcal vaccination rates in an elderly population by patient education in an outpatient clinic [see comments] Elangovan S, et al. **J Am Board Fam Pract** 1996 Nov-Dec;9(6):411–3. Comment in: J Am Board Fam Pract 1996 Nov-Dec;9(6):461–2. Comment in: J Am Board Fam Pract 1997 May-Jun;10(3);240–1.

Pneumococcal vaccine: a preventive care winner [editorial; comment] Mustin HD. **J Am Board Fam Pract** 1996 Nov-Dec;9(6):461–2. Comment on: J Am Board Fam Pract 1996 Nov-Dec;9(6):411–3.

Do we practice geriatric cardiology? [editorial] Parmley WW. **J Am Coll Cardiol** 1997 Jan;29(1):217–8

General surgical care in the nursing home patient: results of a dedicated geriatric surgery consult service. Zenilman ME, et al. **J Am Coll Surg** 1996 Oct;183(4):361–70

The old-old dental patient: the challenge of clinical decision-making. Berkey DB, et al. **J Am Dent Assoc** 1996 Mar;127(3):321–32 (37 ref.)

Preventive medicine and screening in older adults. Goldberg TH, et al. **J Am Geriatr Soc** 1997 Mar;45(3):344–54 (150 ref.)

The Cochrane Field in Health Care of Older People: geriatric medicine's role in the collaboration. Rochon PA, et al. **J Am Geriatr Soc** 1997 Feb;45(2):241–3

Implementation of in-home telemedicine in rural kansas: answering an elderly patient's needs [see comments] Lindberg CC. **J Am Med Inform Assoc** 1997 Jan-Feb; 4(1):14–7. Comment in: J Am Med Inform Assoc 1997 Jan-Feb;4(1):69–70.

Issues and recommendations for the recruitment and retention of older ethnic minority adults into clinical research. Areán PA, et al. **J Consult Clin Psychol** 1996 Oct;64(5):875–80 (38 ref.)

The Harstad injury prevention study: community based prevention of fall-fractures in the elderly evaluated by means of a hospital based injury recording system in Norway. Ytterstad B. **J Epidemiol Community Health** 1996 Oct;50(5):551–8

Growing old in poverty. Bresnahan ME. **J Med Assoc Ga** 1997 Apr;86(2):124

Client satisfaction: traditional care versus cluster care. Gray YL, et al. **J Prof Nurs** 1997 Jan-Feb;13(1):56–61

The unlikely geriatricians. Coni N. **J R Soc Med** 1996 Oct; 89(10):587–9

Continuous automated telecare assessment of the elderly. Doughty K, et al. **J Telemed Telecare** 1997;3 Suppl 1:23–5

The health of veterans: meeting the challenge [editorial] [see comments] Killer GT. **Med J Aust** 1996 Oct 21; 165(8):413–4. Comment in: Med J Aust 1997 Mar 3;166(5):279.

The impact of mitigating the effect of age-related diseases, such as osteoporosis. Walton I. **Osteoporos Int** 1996;6 Suppl 2:11–2

Clinicopathological analysis on cancers of autopsy cases in a geriatric hospital. Imaida K, et al. **Pathol Int** 1997 May; 47(5):293–300

Impact of postal invitations and user fee on influenza vaccination rates among the elderly. A randomized controlled trial in general practice. Nexøe J, et al. **Scand J Prim Health Care** 1997 Jun;15(2):109–12

Outcome of aged patients in Finnish supervised home care [see comments] Karppi P, et al. **Scand J Soc Med** 1997 Mar;25(1):4–7. Comment in: Scand J Soc Med 1997 Mar;25(1):1–3.

Cultural problems of ageing especially regarding gender and intergenerational equity. Henrard JC. **Soc Sci Med** 1996 Sep;43(5):667–80 (115 ref.)

Needs of the Hispanic elderly reflect cultural differences. Otiniano ME, et al. **Tex Med** 1996 Oct;92(10):33–4

5th Asia/Oceania Regional Congress of gerontology. November 19–23rd 1995. Sharma MP. **Trop Gastroenterol** 1995 Oct-Dec;16(4):34–7

[The Gordian knot (letter)] Vennervald K. **Ugeskr Laeger** 1997 Mar 24;159(13):1959–60 **(Dan)**

[Geriatrics in The Netherlands. II. Networks geriatrics] Duursma SE, et al. **Ned Tijdschr Geneeskd** 1996 Nov 30; 140(48):2420–3 **(Dut)**

[Filters in mental health care for the elderly. A literature study of the prevalence of psychiatric problems and the utilization of care by the elderly] Depla MF. **Tijdschr Gerontol Geriatr** 1996 Oct;27(5):206–14 (29 ref.) (Eng. Abstr.) **(Dut)**

[Priorities in prevention (editorial)] Goedhard WJ. **Tijdschr Gerontol Geriatr** 1997 Feb;28(1):5–6 **(Dut)**

[Paradoxical welfare perception by the baby boom generation around 2025. 3 scenarios for pension and care] Jansweijer R. **Tijdschr Gerontol Geriatr** 1997 Apr;28(2):51–8 (Eng. Abstr.) **(Dut)**

[Informal and professional assistance in persons aged 75 years and over] Aptel I, et al. **Rev Epidemiol Sante Publique** 1997 Mar;45(1):85–8 **(Fre)**

[Temporary medicosocial admission: alternative to hospitalization of elderly persons?] Rey-Bellet P, et al. **Soz Praventivmed** 1997;42(1):11–20 (Eng. Abstr.) **(Fre)**

[Management of elderly patients by the family physician] Fischer GC. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):783–9 (Eng. Abstr.) **(Ger)**

[Ambulatory geriatric rehabilitation--concepts, chances and responsibilities of participating physicians] Stamm T, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):847–57 (Eng. Abstr.) **(Ger)**

[Geriatric consultations in a general hospital] Leibovitz A, et al. **Harefuah** 1996 Nov 15;131(10):393–7, 455 (Eng.

Abstr.) **(Heb)**

[A clinical study of skin flora in patients with MRSA colonization after introduction of preventive measures of hospital infection in a geriatric ward] Masaki H, et al. **Kansenshogaku Zasshi** 1997 Feb;71(2):97–102 (Eng. Abstr.) **(Jpn)**

[Awareness of health and welfare planning for elderly and methods to increase awareness: based on social marketing] Tamura M, et al. **Nippon Koshu Eisei Zasshi** 1996 Nov; 43(11):954–64 (Eng. Abstr.) **(Jpn)**

[The quality of life for the elderly in long-term care—view point of social welfare] Ohkuni M. **Nippon Ronen Igakkai Zasshi** 1996 Jul;33(7):508–11 (0 ref.) **(Jpn)**

[Female Medicine in the Elderly] Sugawa T. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):4–6 (7 ref.) **(Jpn)**

[Functional capacity in those over 60 and related social health factors (the ANCO Project for the Aged of Cordoba)] Espejo Espejo J, et al. **Aten Primaria** 1997 Jun 15;20(1):3–11 (Eng. Abstr.) **(Spa)**

[A downbeat reality of the Adel-reform. Shortage of physicians is the greatest problem. Increased responsibility of the MAS-nurses] Nordin E. **Lakartidningen** 1997 Feb 26;94(9):691–3, 699–700 **(Swe)**

[The Adel reform causes problems with charges (letter)] Rost F. **Lakartidningen** 1997 Aug 6;94(32–33):2717 **(Swe)**

ECONOMICS

What are the costs to society and to individuals regarding diagnostic procedures and care of patients with dementia? Winblad B, et al. **Acta Neurol Scand Suppl** 1996;168:101–4 (35 ref.)

What do we know about patient targeting in geriatric evaluation and management (GEM) programs? Wieland D, et al. **Aging (Milano)** 1996 Oct;8(5):297–310 (86 ref.)

The impact of payor/provider type on health care use and expenditures among the frail elderly. Experton B, et al. **Am J Public Health** 1997 Feb;87(2):210–6

Health care costs of people referred to an aged care assessment team: the effect of cognitive impairment. LoGiudice D, et al. **Aust N Z J Public Health** 1997 Jun; 21(3):311–5

Patterns and costs of post-acute care: a longitudinal study of people aged 60 and over in Dubbo. McCallum J, et al. **Aust N Z J Public Health** 1996 Feb;20(1):19–26

Skin lesion removal rationed in Florida [news] Charatan FB. **BMJ** 1996 Dec 14;313(7071):1506

Plan for insurance to fund elderly care [news] Mulube M. **BMJ** 1996 Sep 21;313(7059):709

Exercise on the NHS: a cost-effective exercise for older adults [letter; comment] Davey R, et al. **Br J Gen Pract** 1997 May;47(418):328. Comment on: Br J Gen Pract 1997 Feb;47(415):119–22.

Factors explaining the increase in cost for physician care in Quebec's elderly population [see comments] Demers M. **Can Med Assoc J** 1996 Dec 1;155(11):1555–60. Comment in: Can Med Assoc J 1996 Dec 1;155(11):1584–6.

Health care economics of cancer in the elderly. Bailes JS. **Cancer** 1997 Oct 1;80(7):1348–50

Employer-based health insurance and seniors: the case of Bermuda. Chappell NL, et al. **Gerontologist** 1996 Feb; 36(1):63–9

"The PACE Evaluation": two responses [letter; comment] Clauser SB, et al. **Gerontologist** 1996 Feb;36(1):7–8; discussion 8–9. Comment on: Gerontologist 1995 Jun;35(3):349–59.

"The PACE Evaluation": two responses [letter; comment] Coulam RF, et al. **Gerontologist** 1996 Feb;36(1):7; discussion 8–9. Comment on: Gerontologist 1995 Jun;35(3):349–59.

Quality of Medicare-reimbursed home health care. Jette AM, et al. **Gerontologist** 1996 Aug;36(4):492–501

Can Medicaid long-term care expenditures for the elderly be reduced? Wiener JM. **Gerontologist** 1996 Dec; 36(6):800–11

Policy ... limiting acute care for the very old at the end of their lives saves tons of money [news] **Hosp Health Netw** 1997 Jun 20;71(12):28, 30, 32

The market made them do it. Participants in the Medicare Choices project say they're nudging out the insurance middleman—and insuring their own survival. Panel discussion. Garriss J, et al. **Hosp Health Netw** 1997 Jul 5;71(13):32–4, 36

Senior surge: are you ready? Hudson T. **Hosp Health Netw** 1997 Apr 5;71(7):50–2, 54, 56

Senior bashing. Meyer H. **Hosp Health Netw** 1996 Dec 5; 70(23):28–30, 32, 34–8

Impacts of the proposed restructuring of Medicare and Medicaid on the elderly: a conceptual framework and analysis. Lynch M, et al. **Int J Health Serv** 1997;27(1):57–75

The economic cost of hip fractures in community-dwelling older adults: a prospective study [see comments] Brainsky A, et al. **J Am Geriatr Soc** 1997 Mar;45(3):281–7. Comment in: J Am Geriatr Soc 1997 Mar;45(3):382–3.

Transitions in health care use and expenditures among frail older adults by payor/provider type [see comments] Pearlman DN, et al. **J Am Geriatr Soc** 1997 May; 45(5):550–7. Comment in: J Am Geriatr Soc 1997 May;45(5):645–6.

Managed care: good medicine for old people? [editorial; comment] Reuben DB. **J Am Geriatr Soc** 1997 May; 45(5):643–4. Comment on: J Am Geriatr Soc 1997 May;45(5):543–9. Comment on: J Am Geriatr Soc 1997 May;45(5):627–32.

Just spending in the face of concentrated need. Jindal B. **J La State Med Soc** 1996 Feb;148(2):64–75

Influenza vaccination: cost-effective health care for the older adult? Hampson AW, et al. **J Qual Clin Pract** 1997 Mar; 17(1):3–11

Can clinical practice guidelines increase the cost-effectiveness of geriatric rehabilitation? Small Work Group minority report. Johnston MV. **Med Care** 1997 Jun; 35(6 Suppl):JS87–9

Can clinical practice increase the cost-effectiveness of geriatric rehabilitation? Small Work Group majority report. Laouri M. **Med Care** 1997 Jun;35(6 Suppl):JS84–6

Life expectancy, life span, and the limits of medicine. Handler S. **Minn Med** 1996 Dec;79(12):26–8

Costs of health care for the elderly [letter; comment] Bayer R. **N Engl J Med** 1997 Feb 27;336(9):663; discussion 664 . Comment on: N Engl J Med 1996 Sep 5;335(10):744–6.

Costs of health care for the elderly [letter] Shenkin HA. **N Engl J Med** 1997 Feb 27;336(9):664

Costs of health care for the elderly [letter] Sudlow M. **N Engl J Med** 1997 Feb 27;336(9):663–4; discussion 664

Longer life spans rattle future economy. Tyson WH. **N Y State Dent J** 1997 Jan;63(1):58–61

Medicare cuts and the aging population [editorial] D'Ambrosia R. **Orthopedics** 1996 Feb;19(2):97

Early discharge planning for elderly patients in acute hospitals—an intervention study. Styrborn K. **Scand J Soc Med** 1995 Dec;23(4):273–85

Pooling public and private funds in the patient's interest: the case for long-term care insurance. Launois R. **Soc Sci Med** 1996 Sep;43(5):739–44

[The elderly cardiovascular patient in general practice. Health care costs—drugs—economic feasibility] Schmidt K. **Fortschr Med** 1996 Mar 10;114(7):43–4 **(Ger)**

[Medical expenditure for the elderly and factors related to its geographical variations within Fukuoka Prefecture] Une H. **Nippon Koshu Eisei Zasshi** 1996 Jan;43(1):28–36 (Eng. Abstr.) **(Jpn)**

HISTORY

In the past. The role of the physician in geriatric medicine in the ageing society. Williamson J. **Age Ageing** 1994;23 Suppl 3:S9–11

The history of geriatric medicine in Canada. Hogan DB, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1134–9

Growing old in the city: public health and the elderly in Leicester, 1948–74. Welshman J. **Med Hist** 1996 Jan; 40(1):74–89

LEGISLATION & JURISPRUDENCE

Legislating community care: the British experience, with U.S. comparisons. Filinson R. **Gerontologist** 1997 Jun; 37(3):333–40

The changing face of aging politics. Hudson RB. **Gerontologist** 1996 Feb;36(1):33–5

Consumers and health policy development: confessions of a guarded optimist. Kushner C. **Int J Qual Health Care** 1996 Oct;8(5):479–84

Ethics and law in the field of medical care for the elderly in France. Gromb S, et al. **J Med Ethics** 1997 Aug; 23(4):233–8

[Incorporation of conscience objectors in Insalud (editorial)] Pérez López RB. **Rev Esp Salud Publica** 1996 May-Jun; 70(3):245–9 **(Spa)**

MANPOWER

A post-master's program in gerontological social work: fulfilling a practice need in health care. Eckert JW, et al. **Soc Work Health Care** 1996;24(1–2):137–52

[Required manpower for health care and nursing services for the aged at home public health nurses, visiting nurses, dental hygienists, dietitians, physical therapists, and occupational therapists] Ojima T, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):273–82 (Eng. Abstr.) **(Jpn)**

ORGANIZATION & ADMINISTRATION

The role of the physician in geriatric medicine in the ageing society. In management. Severs MP. **Age Ageing** 1994;23 Suppl 3:S39–42

What do we know about patient targeting in geriatric evaluation and management (GEM) programs? Wieland D, et al. **Aging (Milano)** 1996 Oct;8(5):297–310 (86 ref.)

Pharmaceutical services in a capitated geriatric care program. Sorrento TA, et al. **Am J Health Syst Pharm** 1996 Dec 1;53(23):2848–52

Community care: the independent sector. Barodawala S. **BMJ** 1996 Sep 21;313(7059):740–3 (2 ref.)

Community institutional care for frail elderly people [editorial] Black D, et al. **BMJ** 1997 Aug 23; 315(7106):441–2

Ageing in black and ethnic minorities: a challenge to service provision. Askham J. **Br J Hosp Med** 1996 Dec 11–1997 Jan 14;56(11):602–4 (14 ref.)

Caring for the elderly: problems and priorities. Banerjee AK. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):159–61 (17 ref.)

Caring for patients in geriatric day hospitals: guidelines on the relationship between primary care physicians and specialist/consultants. Powell C, et al. **Can Fam Physician** 1996 Jan;42:110–5, 117

Community social alarm network in Slovenia. Premik M, et al. **Cent Eur J Public Health** 1996 Dec;4(4):223–5

Mental health services for rural elderly: innovative service strategies. Chalifoux Z, et al. **Community Ment Health J** 1996 Oct;32(5):463–80 (70 ref.)

New developments and issues in home care policies. Brodsky J, et al. **Disabil Rehabil** 1997 Apr;19(4):150–4

Home hospitalization in the spectrum of community geriatric care. Stessman J, et al. **Disabil Rehabil** 1997 Apr; 19(4):134–41

Long-term care case management: a look at alternative models. Applebaum R, et al. **Gerontologist** 1996 Oct; 36(5):701–5

Composition of the home care service package: predictors of type, volume, and mix of services provided to poor and frail older people. Diwan S, et al. **Gerontologist** 1997 Apr; 37(2):169–81

PACE: a model of integrated acute and long-term care [editorial] Kane RL. **Hosp Pract (Off Ed)** 1997 Apr 15; 32(4):23–4, 27, 30

Geriatrics in Lebanon: the beginning. Abyad A. **Int J Aging Hum Dev** 1995;41(4):299–309

Home care for the urban chronically ill elderly in the People's Republic of China. Davis AJ, et al. **Int J Aging Hum Dev** 1995;41(4):345–58

Mental health care for the elderly [editorial] Sartorius N. **Int J Geriatr Psychiatry** 1997 Apr;12(4):430–1

Psychiatry of the elderly: a consensus statement [editorial] Wertheimer J. **Int J Geriatr Psychiatry** 1997 Apr; 12(4):432–5 (0 ref.)

The development of community care policy for the elderly: a comparative perspective. Litwin H, et al. **Int J Health Serv** 1996;26(4):691–708

Geriatric rehabilitation ('alters-rehabilitation')–the new challenge for social medicine and science. Barolin GS. **Int J Rehabil Res** 1996 Sep;19(3):201–18

Developing rural interdisciplinary geriatrics teams in a changing health care environment. Gariola G. **J Allied Health** 1997 Winter;26(1):27–9

The Health Advisory Service [news] Black D. **J Am Geriatr Soc** 1997 May;45(5):624–5

Implementation of health care guidelines for older persons is being delayed [news] Carbonin P. **J Am Geriatr Soc** 1997 May;45(5):624

Program of All-inclusive Care for the Elderly (PACE): an innovative model of integrated geriatric care and financing [see comments] Eng C, et al. **J Am Geriatr Soc** 1997 Feb; 45(2):223–32. Comment in: J Am Geriatr Soc 1997 Feb;45(2):244.

The Prevention for Elderly Persons (PEP) Program: a model of municipal and academic partnership to meet the needs of older persons for preventive services [see comments] Reuben DB, et al. **J Am Geriatr Soc** 1996 Nov; 44(11):1394–8. Comment in: J Am Geriatr Soc 1996 Nov;44(11):1399.

Progress in prevention [editorial; comment] Robinson BE. **J Am Geriatr Soc** 1996 Nov;44(11):1399. Comment on: J Am Geriatr Soc 1996 Nov;44(11):1394–8.

PACE: a continuing evolving success [editorial; comment] Williams TF. **J Am Geriatr Soc** 1997 Feb;45(2):244. Comment on: J Am Geriatr Soc 1997 Feb;45(2):223–32.

Caring for the elderly patient. Mallet L. **J Am Pharm Assoc (Wash)** 1996 Nov;NS36(11):628

A dynamic model for explaining changes in use of IADL/ADL care in the community. Morris SA, et al. **J Health Soc Behav** 1996 Mar;37(1):91–103

Community outreach: rural mobile health unit. Alexy BB, et al. **J Nurs Adm** 1996 Dec;26(12):38–42

The golden boom: the health needs of seniors. Noonan SS. **N J Med** 1997 Sep;94(9):31, 33–4

Models for community-based long-term care for the elderly in a changing health system. Collins CE, et al. **Nurs Outlook** 1997 Mar–Apr;45(2):59–63 (25 ref.)

The plight of the elderly in managed care systems [news] Whall AL. **Nurs Outlook** 1996 Sep–Oct;44(5):245–6

A model of a successful clinic [letter] Bezam J, et al. **Nurse Pract** 1995 Aug;20(8):15–6, 21

Care in the community [editorial; comment] Slack RC. **Public Health** 1997 May;111(3):123. Comment on: Public Health 1997 May;111(3):129–33.

Giving voice to elderly people: community-based long-term care. Krothe JS. **Public Health Nurs** 1997 Aug;14(4):217–26

Starting insulin therapy in elderly non-insulin-dependent diabetic patients at a health care centre. Methodological and economic aspects. Tovi J, et al. **Scand J Prim Health Care** 1997 Jun;15(2):87–91

Deinstitutionalization of the elderly in Finland, 1981–91. Aro S, et al. **Scand J Soc Med** 1997 Jun;25(2):136–43

The art and science of targeting geriatrics programs [letter; comment] Wieland D. **Scand J Soc Med** 1997 Mar;25(1):1–3 . Comment on: Scand J Soc Med 1997 Mar;25(1):4–7.

Do preventive health services reduce eventual demand for medical care? Nakanishi N, et al. **Soc Sci Med** 1996 Sep; 43(6):999–1005

[Organization of geriatric care in the Samara region under conditions of obligatory medical insurance] Iakovlev OG, et al. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):43–5 (Eng. Abstr.) **(Rus)**

[Physicians do not have to have responsibility in leadership

problems (letter)] Sundström M, et al. **Lakartidningen** 1997 Mar 19;94(12):1051 **(Swe)**

STANDARDS

Predicting early nonelective hospital readmission in nutritionally compromised older adults. Friedmann JM, et al. **Am J Clin Nutr** 1997 Jun;65(6):1714–20

Quality comes home [letter; comment] Cantor MD. **Ann Intern Med** 1997 May 15;126(10):835. Comment on: Ann Intern Med 1996 Nov 15;125(10):839–43.

Suicide in a general hospital: the case of the elderly. de Leo D. **Crisis** 1997;18(1):5–6

Measuring the adequacy of home care for frail elders. Capitman J, et al. **Gerontologist** 1997 Jun;37(3):303–13

The quality of hospital discharge: a survey of discharge arrangements for the over-65s. Fairhurst K, et al. **Int J Qual Health Care** 1996 Apr;8(2):167–74

Boston Working Group on Improving Health Care Outcomes Through Geriatric Rehabilitation. Proceedings from the conference. May 16–18, 1996. **Med Care** 1997 Jun;35(6 Suppl):JS1–133

Boston Working Group on Improving Health Care Outcomes Through Geriatric Rehabilitation. **Med Care** 1997 Jun;35(6 Suppl):JS4–20

Disablement outcomes in geriatric rehabilitation. Jette AM. **Med Care** 1997 Jun;35(6 Suppl):JS28–37; discussion JS38–44 (25 ref.)

Improving outcomes in rehabilitation. A call to arms (and legs). Kane RL. **Med Care** 1997 Jun;35(6 Suppl):JS21–7 (8 ref.)

Rehabilitation care and outcomes from the patient's perspective. Kramer AM. **Med Care** 1997 Jun;35(6 Suppl):JS48–57; discussion JS58–63 (20 ref.)

Improving health care outcomes through geriatric rehabilitation. Conference summary. Lohr KN. **Med Care** 1997 Jun;35(6 Suppl):JS121–30

Can clinical practice guidelines increase the cost-effectiveness of geriatric rehabilitation? Stason WB. **Med Care** 1997 Jun;35(6 Suppl):JS68–77; discussion JS78–83 (2 ref.)

Disablement outcomes in geriatric rehabilitation. Report: Group D. Whiteneck GG. **Med Care** 1997 Jun;35(6 Suppl):JS45–7

Does knowledge of drug prescribing predict drug management of standardized patients in office practice? Grad R, et al. **Med Educ** 1997 Mar;31(2):132–7

Interview with Bonnie Kelly [interview by Robin K. Levinson] Kelly B. **N J Med** 1997 Jul;94(7):21–3

Remarks from the Honorable Russell D. Feingold, Wisconsin, the United States Senate, Washington, DC. Feingold RD. **Nutr Rev** 1996 Jan;54(1 Pt 2):S31–4

Remarks from the Honorable William Goodling, Pennsylvania 19th district, the United States House of Representatives, Washington, DC. Goodling W. **Nutr Rev** 1996 Jan;54(1 Pt 2):S55–6

Assessing the nutritional status of the elderly: The Mini Nutritional Assessment as part of the geriatric evaluation. Guigoz Y, et al. **Nutr Rev** 1996 Jan;54(1 Pt 2):S59–65 (46 ref.)

The rural elderly: living the good life? Jensen GL. **Nutr Rev** 1996 Jan;54(1 Pt 2):S17–21 (16 ref.)

Remarks from the Honorable Joseph P. Kennedy II, Massachusetts 8th district, the United States House of Representatives, Washington, DC. Kennedy JP 2d. **Nutr Rev** 1996 Jan;54(1 Pt 2):S57–8

Nevada's elderly: nutrition screening, risk, and interventions. Wilson D, et al. **Nutr Rev** 1996 Jan;54(1 Pt 2):S45–7 (12 ref.)

The last year of life: mortality, cause of death and need for help among old men. Viitasalo V, et al. **Scand J Soc Med** 1996 Jun;24(2):132–9

Serum protein electrophoresis: potential test for use in geriatric companion animal health programmes. Batamuzi EK, et al. **Zentralbl Veterinarmed A** 1996 Oct;43(8):501–8

[The evaluative cycle of the process of an overall geriatric evaluation program at a health center] Martín Lesende I, et al. **Aten Primaria** 1997 Jun 15;20(1):12–6 (Eng. Abstr.) **(Spa)**

[Competence and cooperation in geriatric care are deficient] Nordin E. **Lakartidningen** 1997 Feb 26;94(9):694, 699–700 **(Swe)**

STATISTICS & NUMERICAL DATA

Geographical variations in rates of ophthalmic surgery. Jones HS, et al. **Br J Ophthalmol** 1996 Sep;80(9):784–8

Doctors' willingness to refer elderly patients for elective surgery. Ryynänen OP, et al. **Fam Pract** 1997 Jun; 14(3):216–9

Identifying older people with dementia: the effectiveness of a multiservice census. Gordon DS, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):636–41

Home-based assessment for family carers: a preventative strategy to identify and meet service needs. Nankervis J, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):193–201

A British psychogeriatrician's experience in Australia. Shah A. **Int J Geriatr Psychiatry** 1997 Feb;12(2):263–6

'Do not resuscitate': How? why? and when? Skerritt U, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):667–70

Continuing care hospital beds in the UK [letter] Treloar A. **Int J Geriatr Psychiatry** 1997 Feb;12(2):271

Predictors of change and continuity in home care for dementia patients. Vernooij-Dassen M, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):671–7

[Regional differences of results of disability assessment for domestic health care needs in 1995 and possible explanations] Dinkel RH, et al. **Gesundheitswesen** 1997 Apr; 59 Suppl 1:59–63 (Eng. Abstr.) **(Ger)**

[The preventive home visit--possibilities for geriatric preventive care] Gerber-Glur E, et al. **Ther Umsch** 1997 Jun;54(6):303–8 (13 ref.) (Eng. Abstr.) **(Ger)**

SUPPLY & DISTRIBUTION

Community care and social services. Renwick D. **BMJ** 1996 Oct 5;313(7061):869–72 (9 ref.)

The rationing debate. Rationing health care by age [see comments] Williams A, et al. **BMJ** 1997 Mar 15; 314(7083):820–5. Comment in: BMJ 1997 Jun 28;314(7098):1902.

High-technology medicine and the old: the dialysis example. Kjellstrand CM. **J Intern Med** 1996 Mar;239(3):195–210 (94 ref.)

Home care for the elderly. Xu K, et al. **World Health Forum** 1996;17(4):357–9

[Gerontology: screening, prevention and age limits (editorial)] Goedhard WJ. **Tijdschr Gerontol Geriatr** 1996 Dec;27(6):235–6 **(Dut)**

[Geriatric rehabilitation needs in Cologne: the concept of "integrated geriatric rehabilitation"] Zimmermann H, et al. **Rehabilitation (Stuttg)** 1997 Feb;36(1):26–33 (Eng. Abstr.) **(Ger)**

[Regional disparities in accessibility of inpatient treatment for elderly patients] Klein T, et al. **Z Gerontol Geriatr** 1996 Jan-Feb;29(1):65–75 (Eng. Abstr.) **(Ger)**

[Health care needs of the elderly in long-term care facilities and their suitable placements for care] Yamazaki K, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):257–64 (Eng. Abstr.) **(Jpn)**

TRENDS

Improving the care of elderly diabetic patients: the final report of the St Vincent Joint Task Force for Diabetes. Hendra TJ, et al. **Age Ageing** 1997 Jan;26(1):3–6

A travel account of an 11-city tour of British geriatric units. Olde Rikkert MG. **Age Ageing** 1997 May;26(3):233–5

Prioritizing performance measures for geriatric medical services: what do the purchasers and providers think? Roberts H, et al. **Age Ageing** 1996 Jul;25(4):326–8

Concerns of special populations: cancer and the aging population--a meeting of the President's Cancer Panel, July 31, 1997. Calabresi P, et al. **Cancer** 1997 Oct 1; 80(7):1258–60

New challenges in ageing: home care. Hermanova H. **Disabil Rehabil** 1997 Apr;19(4):142–6

The elderly: the single greatest achievement of mankind. Steel K. **Disabil Rehabil** 1997 Apr;19(4):130–3

Trends of the characteristics and appropriateness of admissions to acute geriatric and medical wards in Italy from 1988 through 1993. Gruppo Italiano di Farmacovigilanza nell'Anziano--GIFA. Pahor M, et al. **Eur J Epidemiol** 1996 Dec;12(6):563–71

Trends, issues, perspectives, and values for the aging of the baby boom cohorts. Cornman JM, et al. **Gerontologist** 1996 Feb;36(1):15–26 (70 ref.)

Social work education and the field of aging. Fahey CJ. **Gerontologist** 1996 Feb;36(1):36–41

Older people of tomorrow: a psychosocial profile. Silverstone B. **Gerontologist** 1996 Feb;36(1):27–32

Public health ... senior citizens are turning to exercise faster than any other adult group [news] **Hosp Health Netw** 1996 Oct 5;70(19):14

From states of confusion to a national action plan for dementia care: the development of policies for dementia care in Australia. Howe AL. **Int J Geriatr Psychiatry** 1997 Feb;12(2):165–71

The promise and performance of HMOs in improving outcomes in older adults. Wagner EH. **J Am Geriatr Soc** 1996 Oct;44(10):1251–7 (44 ref.)

Geriatric health care in the 21st century. Williams ME, et al. **N C Med J** 1996 Nov-Dec;57(6):368–71

The evolving role of the state hospital in the care and treatment of older adults: state trend, 1984 to 1993. Semke J, et al. **Psychiatr Serv** 1996 Oct;47(10):1082–7

Letter from the editor: But who calls that livin'? [editorial] Miller WT. **Semin Roentgenol** 1997 Jul;32(3):145–6

[A silent revolution. Towards a balanced tuning of informal and formal care] Knipscheer CP. **Tijdschr Gerontol Geriatr** 1996 Aug;27(4):138–40 **(Dut)**

[Work capacity, severe disability and needs for disability services in Thüringen with respect to demographic change] Böhm B, et al. **Gesundheitswesen** 1996 Feb;58(2):82–4 (Eng. Abstr.) **(Ger)**

[Social aspects of dementia] Haidinger G. **Wien Med Wochenschr** 1996;146(21–22):538–41 (Eng. Abstr.) **(Ger)**

[Ambulatory psychosocial and rehabilitation services in cerebral cognitive deficits] Rudas S, et al. **Wien Med Wochenschr** 1996;146(21–22):565–8 (Eng. Abstr.) **(Ger)**

[Prevention, standards and future developments in medical specialties--guidelines for diagnosis and therapy. Working Group of Scientific Medical Specialty Societies] von K H Vosteen Z. **Z Arztl Fortbild (Jena)** 1995 Dec; 89(8):859–74 **(Ger)**

[Development of a health promotion program for the target group "elderly people"] Walter U, et al. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):839–46 (46 ref.) (Eng. Abstr.) **(Ger)**

[Recent problems of advanced age in humans. I. General problems] Franke H. **Z Gerontol Geriatr** 1996 Jan-Feb; 29(1):51–64 (Eng. Abstr.) **(Ger)**

[Health and illness in aging. Deficits and perspectives in health care research] Görres S. **Z Gerontol Geriatr** 1996 Sep-Oct;29(5):375–81 (Eng. Abstr.) **(Ger)**

[Social services and the pressure to modernize: new needs and developmental trends in care of the elderly] Heinze RG, et al. **Z Gerontol Geriatr** 1996 Jan-Feb;29(1):46–50 (Eng. Abstr.) **(Ger)**

[Development of disability in the elderly] Schneekloth U. **Z Gerontol Geriatr** 1996 Jan-Feb;29(1):11–7 (Eng. Abstr.) **(Ger)**

UTILIZATION

Repeat visits by elder emergency department patients: sentinel events [editorial; comment] Bernstein E. **Acad Emerg Med** 1997 Jun;4(6):538–9. Comment on: Acad Emerg Med 1997 Jun;4(6):581–8.

Predictors of repeat emergency department visits by elders [see comments] McCusker J, et al. **Acad Emerg Med** 1997 Jun;4(6):581–8. Comment in: Acad Emerg Med 1997 Jun;4(6):538–9.

A hospital survey of the care of elderly patients with diabetes mellitus. Fletcher AK, et al. **Age Ageing** 1996 Sep; 25(5):349–52

Unmet health care needs and mortality among Spanish elderly. Alonso J, et al. **Am J Public Health** 1997 Mar; 87(3):365–70

Ethnicity and aged care assessment teams in Queensland. Davis C, et al. **Aust N Z J Public Health** 1996 Feb; 20(1):33–40

Diabetes in institutionalised elderly people: a forgotten population? Benbow SJ, et al. **BMJ** 1997 Jun 28; 314(7098):1868–9

Demographics, aging and health care: is there a crisis? [editorial; comment] Dalziel WB. **Can Med Assoc J** 1996 Dec 1;155(11):1584–6. Comment on: Can Med Assoc J 1996 Dec 1;155(11):1555–60.

Factors explaining the increase in cost for physician care in Quebec's elderly population [see comments] Demers M. **Can Med Assoc J** 1996 Dec 1;155(11):1555–60. Comment in: Can Med Assoc J 1996 Dec 1;155(11):1584–6.

Predictors of dental use for low-income, urban elderly persons upon removal of financial barriers. Strayer MS, et al. **Gerontologist** 1997 Feb;37(1):110–6

Outpatient geriatric evaluation and management: is there an investment effect? Toseland RW, et al. **Gerontologist** 1997 Jun;37(3):324–32

High hospital admission rates and inappropriate care [see comments] Restuccia J, et al. **Health Aff (Millwood)** 1996 Winter;15(4):156–63. Comment in: Health Aff (Millwood) 1996 Winter;15(4):164–7.

A study of aggression among referrals to a community-based psychiatry of old age service. Gibbons P, et al. **Int J Geriatr Psychiatry** 1997 Mar;12(3):384–8

Pneumococcal vaccination [letter; comment] Smith DL. **J Am Board Fam Pract** 1997 May-Jun;10(3):240–1. Comment on: J Am Board Fam Pract 1996 Nov-Dec;9(6):411–3.

A randomized trial of group outpatient visits for chronically ill older HMO members: the Cooperative Health Care Clinic [see comments] Beck A, et al. **J Am Geriatr Soc** 1997 May;45(5):543–9. Comment in: J Am Geriatr Soc 1997 May;45(5):643–4.

Predictive validity of the Pra instrument among older recipients of managed care [see comments] Pacala JT, et al. **J Am Geriatr Soc** 1997 May;45(5):614–7. Comment in: J Am Geriatr Soc 1997 May;45(5):645–6.

GP attendance by elderly Australians: evidence for unmet need in elderly men. Jacomb PA, et al. **Med J Aust** 1997 Feb 3;166(3):123–6

Barriers to effective psychiatric emergency services for elderly persons. Colenda CC, et al. **Psychiatr Serv** 1997 Mar;48(3):321–5

Community-based service use among the young, middle, and old old. Wallace DC, et al. **Public Health Nurs** 1996 Aug; 13(4):286–93

Determinants of the use of ambulant social care by the elderly. Crets S. **Soc Sci Med** 1996 Dec;43(12):1709–20

[Day care as a component of comprehensive health care structure after introduction of nursing care insurance] Busch S, et al. **Gesundheitswesen** 1997 Apr;59 Suppl 1:55–8 (Eng. Abstr.) **(Ger)**

[Relationship between medical expenditures and government-sponsored medical check-ups for the aged] Sekiyama M, et al. **Nippon Koshu Eisei Zasshi** 1996 Nov; 43(11):965–73 (Eng. Abstr.) **(Jpn)**

[The geriatric psychiatric day hospital: an analysis of 5 years of activities] Trifonov EG, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(3):57–60 (Eng. Abstr.) **(Rus)**

[What is the prevalence of elderly persons at high risk in primary care?] Cortés Rubio JA, et al. **Aten Primaria** 1996 Oct 15;18(6):327–30 (Eng. Abstr.) **(Spa)**

HEALTH SERVICES, INDIGENOUS

ORGANIZATION & ADMINISTRATION

Developing a culturally appropriate family planning program for the Navrongo experiment. Nazzar A, et al. **Stud Fam Plann** 1995 Nov-Dec;26(6):307-24

SUPPLY & DISTRIBUTION

U of Manitoba program delivers care to natives, hope to aboriginal students [published erratum appears in Can Med Assoc J 1997 Feb 15;156(4):485] Square D. **Can Med Assoc J** 1996 Dec 1;155(11):1609-11

TRENDS

Health in China. From Mao to market reform. Hesketh T, et al. **BMJ** 1997 May 24;314(7093):1543-5

Improving the health status of aboriginal people in Canada: new directions, new responsibilities [editorial; comment] Tookenay VF. **Can Med Assoc J** 1996 Dec 1; 155(11):1581-3. Comment on: Can Med Assoc J 1996 Dec 1;155(11):1569-78.

UTILIZATION

Health care utilization as a marker for suicidal behavior on an American Indian Reservation [see comments] Mock CN, et al. **J Gen Intern Med** 1996 Sep;11(9):519-24. Comment in: J Gen Intern Med 1996 Sep;11(9):567-8.

A coverage plan for health centres in Murewa district in Zimbabwe: an example of action research. Criel B, et al. **Trop Med Int Health** 1996 Oct;1(5):699-709

HEALTH SERVICES MARKETING see **MARKETING OF HEALTH SERVICES**

HEALTH SERVICES MISUSE

A multisite survey of factors contributing to medically unnecessary ambulance transports. Billittier AJ, et al. **Acad Emerg Med** 1996 Nov;3(11):1046-52

Unscheduled access to health care: reengineering the 911 System [editorial] Koenig KL. **Acad Emerg Med** 1996 Nov; 3(11):989-91

Utility of repeat brain imaging in stroke [see comments] Schneider LB, et al. **AJNR Am J Neuroradiol** 1996 Aug; 17(7):1259-63. Comment in: AJNR Am J Neuroradiol 1996 Aug;17(7):1265-6.

Appropriateness of imaging procedure requests: do radiologists agree? Kahn CE Jr, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):11-4

Judging who needs emergency department care: a prerequisite for policy-making. Lowe RA, et al. **Am J Emerg Med** 1997 Mar;15(2):133-6

CA 125: when not to perform [letter] Edelman M, et al. **Am J Obstet Gynecol** 1996 May;174(5):1671

Perioperative blood transfusion: a plea for guidelines. Sudhindran S. **Ann R Coll Surg Engl** 1997 Jul;79(4):299-302

Detection and classification of inappropriate hospital stay. Butler JS, et al. **Clin Invest Med** 1996 Aug;19(4):251-8

Medication reduction strategies. Courtney DL. **Compr Ther** 1996 May;22(5):318-23 (11 ref.)

Effect of primary care referral on emergency department use: evaluation of a statewide Medicaid program. Gill JM, et al. **Del Med J** 1996 Sep;68(9):437-42

Use and abuse of emergency department facilities [editorial] Delooz HH. **Eur J Emerg Med** 1996 Sep;3(3):139-40

Inappropriate use of new technology: impact on women's health. Sheth SS, et al. **Int J Gynaecol Obstet** 1997 Jul; 58(1):159-65

Non-emergency attenders at a district general hospital accident and emergency department. Thomson H, et al. **J Accid Emerg Med** 1995 Dec;12(4):279-81

Meta-analysis and the Hippocratic principle of primum non nocere--authors' reply [letter] Hoes AW, et al. **J Hypertens** 1995 Nov;13(11):1353-4

Autonomy: the need for limits. Jiwa M. **J Med Ethics** 1996 Dec;22(6):340-3 (18 ref.)

The inappropriate use of the epidural route in cancer pain. Mercadante S, et al. **J Pain Symptom Manage** 1997 Apr; 13(4):233-7

Frequent attender profiles: different clinical subgroups among frequent attender patients in primary care. Karlsson H, et al. **J Psychosom Res** 1997 Feb;42(2):157-66

Do patients use minor injury units appropriately? Dale J, et al. **J Public Health Med** 1996 Jun;18(2):152-6

Putting patients first? [letter] Temianka D. **N Engl J Med** 1997 Oct 9;337(15):1085; discussion 1086

Patterns of utilization of medical care and perceptions of the relationship between doctor and patient with chronic illness including chronic fatigue syndrome. Twemlow SW, et al. **Psychol Rep** 1997 Apr;80(2):643-58

Regional performance of carotid endarterectomy. Appropriateness, outcomes, and risk factors for complications. Wong JH, et al. **Stroke** 1997 May; 28(5):891-8

[Use and misuse of hospital admission in a department of medicine in Padua] Luzzatto G, et al. **Epidemiol Prev** 1996 Oct-Dec;20(4):304-12 (Eng. Abstr.) **(Ita)**

ECONOMICS

Defensive radiology in Spain. Jimenez JR. **Acad Radiol** 1996 Apr;3 Suppl 1:S118-9

Cost and usage impacts of treatment initiation: a comparison of alcoholism and drug abuse treatments. Goodman AC, et al. **Alcohol Clin Exp Res** 1997 Aug;21(5):931-8

Global budgets and excess demand for hospital care. Feldman R, et al. **Health Econ** 1997 Mar-Apr;6(2):187-96 (20 ref.)

Pharmaceuticals. Just the facts, ma'am [news] **Hosp Health Netw** 1997 Mar 20;71(6):10

Good technologies gone bad: how and why the cost-effectiveness of a medical intervention changes for different populations. Phelps CE. **Med Decis Making** 1997 Jan-Mar;17(1):107-17

Most patients attending a 'walk-in' clinic at Red Cross War Memorial Children's Hospital could safely be managed at primary care level. Power M, et al. **S Afr Med J** 1997 Jan;87(1):36-41

[Managed care--chances for health care in Germany?] Ruckdäschel S, et al. **Fortschr Med** 1997 May 20;115(14):30, 33-4, 36 (Eng. Abstr.) **(Ger)**

[Cost increase due to incorrect antibiotic prophylaxis in visceral, thoracic and vascular surgery] Zengaffinen R, et al. **Swiss Surg** 1997;3(3):125-8 (Eng. Abstr.) **(Ger)**

LEGISLATION & JURISPRUDENCE

Kassebaum-Kennedy watch. How to steer clear of fraud and abuse. Hudson T. **Hosp Health Netw** 1996 Nov 5;70(21):68

Fraud and abuse provisions in the Health Insurance Portability and Accountability Act: a guide to the new act for physicians. McCampbell RG. **J Okla State Med Assoc** 1997 Apr;90(4):139-41

[Misuse of inpatient care--background, indicators and evaluation parameters] Buck RA. **Gesundheitswesen** 1997 Apr;59(4):226-30 (Eng. Abstr.) **(Ger)**

STATISTICS & NUMERICAL DATA

Use of mental health resources in the treatment of adult out-patients with no diagnosable mental disorders. Siddique CM, et al. **Acta Psychiatr Scand** 1997 Jan; 95(1):19-25

Inappropriate drug prescriptions for elderly residents of board and care facilities. Spore DL, et al. **Am J Public Health** 1997 Mar;87(3):404-9

Prevalence of potentially inappropriate long term prescribing in general practice in the United Kingdom, 1980-95: systematic literature review [published erratum appears in BMJ 1997 Mar 1;314(7081):651] Buetow SA, et al. **BMJ** 1996 Nov 30;313(7069):1371-4 (111 ref.)

Development of prescribing indicators for elderly medical inpatients. Oborne CA, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):91-7

Repeat radiographs in GP referrals to an orthopaedic clinic. Beggs I. **Br J Gen Pract** 1997 May;47(418):313

Overuse of emergency care in psychiatry? Zdanowicz N, et al. **Eur J Emerg Med** 1996 Mar;3(1):48-51

Using the hospital emergency department as a regular source of care. Lang T, et al. **Eur J Epidemiol** 1997 Feb; 13(2):223-8

Where have all the back pains gone? Changes in the reasons for requiring out-of-hours medical care from a centralized primary care centre after changing to a list system. Vehviläinen AT, et al. **Fam Pract** 1996 Aug;13(4):373-6

Overuse of upper gastrointestinal endoscopy in a country with open-access endoscopy: a prospective study in primary care. Froehlich F, et al. **Gastrointest Endosc** 1997 Jan;45(1):13-9

Appropriateness of admission and the last 24 hours of hospital care in medical wards in an east London teaching group hospital. Houghton A, et al. **Int J Qual Health Care** 1996 Dec;8(6):543-53

Under use of coronary angiography: application of a clinical method. Laouri M, et al. **Int J Qual Health Care** 1997 Feb; 9(1):15-22

Are operative delivery procedures in Greece socially conditioned? Skalkidis Y, et al. **Int J Qual Health Care** 1996 Apr;8(2):159-65

Do internists and emergency physicians agree on the appropriateness of emergency department visits? O'Brien GM, et al. **J Gen Intern Med** 1997 Mar;12(3):188-91

Measuring and averting underuse of necessary cardiac procedures: a summary of results and future directions. Kravitz RL, et al. **Jt Comm J Qual Improv** 1997 May; 23(5):268-76

Avoidable attendance at accident and emergency by the elderly in Hong Kong. Lau EM, et al. **Postgrad Med J** 1997 Mar;73(857):167-8

Characteristics and six-month outcome of patients who use suicide threats to seek hospital admission. Lambert MT, et al. **Psychiatr Serv** 1996 Aug;47(8):871-3

Patients frequently consulting general practitioners at a primary health care centre in Sweden--a comparative study. Andersson SO, et al. **Scand J Soc Med** 1995 Dec; 23(4):251-7

Somatization in frequent attenders of general practice. Portegijs PJ, et al. **Soc Psychiatry Psychiatr Epidemiol** 1996 Jan;31(1):29-37

Predictors of non-urgent utilization of hospital emergency services in Kuwait. Shah NM, et al. **Soc Sci Med** 1996 May;42(9):1313-23

[Comparative study of normal and over-users of a health center] García Lavandera LJ, et al. **Aten Primaria** 1996 Nov 30;18(9):484-9 (Eng. Abstr.) **(Spa)**

[Profile of the over-user of a health center] Llorente Alvarez S, et al. **Aten Primaria** 1996 Feb 15;17(2):100-6 (Eng. Abstr.) **(Spa)**

[Validity of the protocol for evaluating the inappropriate use of hospitalization (see comments)] Peiró S, et al. **Med Clin (Barc)** 1996 Jun 22;107(4):124-9 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Jun 28;109(5):195. **(Spa)**

HEALTH SERVICES NEEDS AND DEMAND

SAEM Kennedy Lecture--infinite needs, finite resources: the new world of health care. Lamm RD. **Acad Emerg Med** 1997 Jun;4(6):593-602

Improving America's health status through a more diverse physician workforce. Cohen JJ. **Acad Med** 1997 Feb; 72(2):130

Emerging parallels between the C.I.S. and the U.S. [letter] Filerman GL. **Acad Med** 1997 Sep;72(9):733-4

Medical students as patients: a pilot study of their health care needs, practices, and concerns. Roberts LW, et al. **Acad Med** 1996 Nov;71(11):1225-32

Prediction of the healthcare needs of persons with HIV/AIDS from preliminary health assessment information. Berk RA, et al. **AIDS Care** 1997 Apr; 9(2):143-60

Supporting children in need through a community-based orphan visiting programme. Foster G, et al. **AIDS Care** 1996 Aug;8(4):389-403

Needs assessment for an urban native HIV and AIDS prevention program. Brassard P, et al. **AIDS Educ Prev** 1996 Aug;8(4):343-51

Special health considerations in African-American elders. Mouton CP. **Am Fam Physician** 1997 Mar;55(4):1243-53 (38 ref.)

Occupational and environmental health in Turkmenistan and Uzbekistan. Reynolds SJ. **Am Ind Hyg Assoc J** 1996 Dec; 57(12):1096-102 (16 ref.)

Patient and physician perception of need for emergency medical care: a prospective and retrospective analysis. Hunt RC, et al. **Am J Emerg Med** 1996 Nov;14(7):635-9

Judging who needs emergency department care: a prerequisite for policy-making. Lowe RA, et al. **Am J Emerg Med** 1997 Mar;15(2):133-6

Collaborative needs assessment and systems development in Alabama: Process and products. Mulvihill BA, et al. **Am J Prev Med** 1996 Jul-Aug;12(4 Suppl):14-9

The use of outpatient mental health services in the United States and Ontario: the impact of mental morbidity and perceived need for care. Katz SJ, et al. **Am J Public Health** 1997 Jul;87(7):1136-43

Demand on primary health care after day surgery. Kong KL, et al. **Ann R Coll Surg Engl** 1997 Jul;79(4):291-5

School-based health clinics: remaining viable in a changing health care delivery system. Brindis CD, et al. **Annu Rev Public Health** 1997;18:567-87 (26 ref.)

Determining the information needs of women after breast biopsy procedures. Deane KA, et al. **AORN J** 1997 Apr; 65(4):767-72, 775-6

Needs of disabled children and their families. Milner J, et al. **Arch Dis Child** 1996 Nov;75(5):399-404

Nursing in the Pacific Basin: a crisis in health care. Sherman DJ. **Asia Pac J Public Health** 1995;8(2):138-43

Needs assessment must become more change-focused. Hawe P. **Aust N Z J Public Health** 1996 Oct;20(5):473-8 (43 ref.)

Models for horizontal equity in resource allocation in aboriginal health. McDermott R, et al. **Aust N Z J Public Health** 1996 Feb;20(1):13-5

Resource allocation and aboriginal health. Mooney G. **Aust N Z J Public Health** 1996 Feb;20(1):9

Comparing the mental health needs of female and male incarcerated juvenile delinquents. Timmons-Mitchell J, et al. **Behav Sci Law** 1997 Spring;15(2):195-202

A field trial of an orthodontic treatment need learning package for general dental practitioners. Burden DJ, et al. **Br Dent J** 1997 Aug 23;183(4):123-9

An index of implant treatment need [letter] Palmer R, et al. **Br Dent J** 1997 Apr 26;182(8):291

High dependency units: role and need [editorial] Bodenham AR, et al. **Br J Hosp Med** 1996 Sep 4-17;56(5):192-3 (8 ref.)

Evolving health care [editorial] Dorrell S. **Br J Hosp Med** 1996 Aug 21-Sep 3;56(4):128-30

Occupational health services for health care staff [letter; comment] Hodgson ES. **Br J Hosp Med** 1994 Jan 19-Feb 1;51(1-2):70. Comment on: Br J Hosp Med 1993 Jul 14-Aug 17;50(2-3):83-5.

Gender stereotyping: consequences for mental health care [editorial] Ramsay R, et al. **Br J Hosp Med** 1996 May 1-14; 55(9):537-8

Monitoring and evaluating cataract intervention in India. Limburg H, et al. **Br J Ophthalmol** 1996 Nov;80(11):951-5

Assessment of General Dental Services orthodontic standards: the Dental Practice Board's gradings compared to PAR and IOTN. Turbill EA, et al. **Br J Orthod** 1996 Aug;23(3):211-20

Prevalence of hip problems in the population aged 55 years and over: access to specialist care and future demand for hip arthroplasty. Fear J, et al. **Br J Rheumatol** 1997 Jan; 36(1):74-6

Family needs after traumatic brain injury: a factor analytic

study of the Family Needs Questionnaire. Serio CD, et al. **Brain Inj** 1997 Jan;11(1):1–9

A modified cluster-sampling method for post-disaster rapid assessment of needs. Malilay J, et al. **Bull World Health Organ** 1996;74(4):399–405

Action Statement for Health Promotion in Canada. Dafoe GH. **Can J Public Health** 1996 Jul–Aug;87(4):220 **(Eng, Fre)**

Denominators for estimation of influenza vaccine coverage among high risk persons aged 15 to 64 years [see comments] Russell ML. **Can J Public Health** 1996 Sep–Oct;87(5):301–4 . Comment in: Can J Public Health 1996 Sep–Oct;87(5):295–7.

Disadvantaged women and smoking. Stewart MJ, et al. **Can J Public Health** 1996 Jul–Aug;87(4):257–60

Survey of local environmental health programs in Alberta. Wanke MI, et al. **Can J Public Health** 1996 Sep–Oct; 87(5):345–50

Waiting list already 7 months long at Toronto's new Environmental Health Clinic. Gray C. **Can Med Assoc J** 1997 Mar 15;156(6):879–81

Creating a research agenda with relevance to cancer nursing practice. Fitch MI. **Cancer Nurs** 1996 Oct;19(5):335–42

A needs assessment for referral to occupational therapy. Nurses' judgment in acute cancer care. Söderback I, et al. **Cancer Nurs** 1997 Aug;20(4):267–73

Anxiety, needs, and coping in family members of the bone marrow transplant patient. Wochna V. **Cancer Nurs** 1997 Aug;20(4):244–50 (18 ref.)

Agent and nature of childhood injury and initial care provided at the community level in Ibadan, Nigeria. Edet EE. **Cent Afr J Med** 1996 Dec;42(12):347–9

Use of mental health institutions in Zimbabwe and factors affecting length of stay of patients. Musonza TG, et al. **Cent Afr J Med** 1996 Dec;42(12):343–5

Assessing response to a proposed peto-inspired early education group at a pre-school assessment and treatment centre. Chesson R. **Child Care Health Dev** 1993 Nov–Dec; 19(6):379–93

Needs and responses of parents following the diagnosis of childhood cancer. Sloper P. **Child Care Health Dev** 1996 May;22(3):187–202

Preventing suicide in young people: what is known and what is needed. Williams K. **Child Care Health Dev** 1997 Mar; 23(2):173–85 (51 ref.)

Use of self-report postal questionnaires for district-based adult oral health needs assessment. Tickle M, et al. **Community Dent Health** 1996 Dec;13(4):193–8

Using subjective oral health status indicators to screen for dental care needs in older adults. Locker D, et al. **Community Dent Oral Epidemiol** 1996 Dec;24(6):398–402

Demand for and utilization of dental services among Hong Kong employees with and without dental benefit coverage. So FH, et al. **Community Dent Oral Epidemiol** 1996 Jun; 24(3):201–6

Cerebral palsy—the transition from youth to adulthood. Stevenson CJ, et al. **Dev Med Child Neurol** 1997 May; 39(5):336–42

Information exchange in the disaster zone: interaction between aid workers and recipients in south Sudan. Jok JM. **Disasters** 1996 Sep;20(3):206–15 (6 ref.)

Health information for district level planning: a cross-sectional household survey in rural Kenya. Nordberg E, et al. **East Afr Med J** 1996 Jun;73(6):364–9

Children and the environment [news] **Environ Health Perspect** 1997 Apr;105(4):370–1

Thinking big: four ways to advance environmental health research to answer the needs of public policy [editorial] Olden K. **Environ Health Perspect** 1997 May;105(5):464–5

The Mental Illness Needs Index. Glover G. **Epidemiol Psichiatr Soc** 1997 Jan–Apr;6(1 Suppl):13–20

Economics and mental health: a concise European history of demand and supply. Knapp MR. **Epidemiol Psichiatr Soc** 1997 Jan–Apr;6(1 Suppl):157–66

Service utilization: a pivotal measure in assessing service needs and service outcome. Ruggeri M. **Epidemiol Psichiatr Soc** 1997 Jan–Apr;6(1 Suppl):105–12

Pattern of neuro-ophthalmic disorders in a tertiary eye care centre in Addis Ababa. Bayu S, et al. **Ethiop Med J** 1997 Jan;35(1):43–51

A longitudinal study on subjective and objective orthodontic treatment need. Stenvik A, et al. **Eur J Orthod** 1997 Feb; 19(1):85–92

The use of household surveys in community-oriented primary care health needs assessments. Taylor BR, et al. **Fam Med** 1996 Jun;28(6):415–21

Men at family planning clinics: the new patients? Schulte MM, et al. **Fam Plann Perspect** 1995 Sep–Oct;27(5):212–6, 225

'It would be good to know you're not alone': the health care needs of women with menstrual symptoms. Byles JE, et al. **Fam Pract** 1997 Jun;14(3):249–54

Patients' experience of epilepsy and health care. Mills N, et al. **Fam Pract** 1997 Apr;14(2):117–23

Psychiatric training in medicine residencies: current needs, practices, and satisfaction. Sullivan MD, et al. **Gen Hosp Psychiatry** 1996 Mar;18(2):95–101

Distribution of informal and formal home help for elderly people in Sweden. Herlitz C. **Gerontologist** 1997 Feb; 37(1):117–24

Patients with dementia: the view from general practice in Grampian. Bisset AF, et al. **Health Bull (Edinb)** 1996 Jan; 54(1):32–6

General practitioners and drug users: their current practice and expectations of specialist services. Ralston GE, et al. **Health Bull (Edinb)** 1996 Jan;54(1):16–21

Screening in Scotland. Stewart S, et al. **Health Bull (Edinb)** 1996 Jan;54(1):13–5

A comparison of three methods for estimating the requirements for medical specialists: the case of otolaryngologists. Anderson GF, et al. **Health Serv Res** 1997 Jun;32(2):139–53

Uninsured in an era of managed care. Davis K. **Health Serv Res** 1997 Feb;31(6):641–9

Perceived learning needs of patients with coronary artery disease using a questionnaire assessment tool. Czar ML, et al. **Heart Lung** 1997 Mar–Apr;26(2):109–17

Are there too many physicians? O'Neil EH. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):146–8 (5 ref.)

Potential for use of a House of Quality Matrix technique in rehabilitation engineering. Logan GD, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):106–15

Pathways of coronary care—a computer-simulation model of the potential for health gain. Bensley DC, et al. **IMA J Math Appl Med Biol** 1995 Sep–Dec;12(3–4):315–28

Health care delivery and the status of the population's health in the current crises in former Yugoslavia using EPI-design methodology. Legetic B, et al. **Int J Epidemiol** 1996 Apr; 25(2):341–8

A population needs assessment profile for dementia. Gordon DS, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):642–7

Outcome of nursing home care for residents with alcohol use disorders. Joseph CL, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):767–72

Young people's health needs in Botswana: a challenge for nursing. Seboni N. **Int Nurs Rev** 1997 Jul–Aug;44(4):110–4

Factors predicting emergency room utilization in a 70-year-old population. Ginsberg G, et al. **Isr J Med Sci** 1996 Aug;32(8):649–64

Reported health concerns of Israeli high school students—differences by age and sex. Palti H, et al. **Isr J Med Sci** 1997 Feb;33(2):123–8

Homeless people and A&E [letter; comment] Maitra AK. **J Accid Emerg Med** 1997 May;14(3):200. Comment on: J Accid Emerg Med 1996 Sep;13(5):334–6.

Clarifying the concept of need: a comparison of two approaches to concept analysis. Endacott R. **J Adv Nurs** 1997 Mar;25(3):471–6

Patients' perceptions of their education needs in the first six weeks following discharge after cardiac surgery. Goodman H. **J Adv Nurs** 1997 Jun;25(6):1241–51

An exploration of parental perception of the nature and level of support needed to care for their child with special needs. Hall S. **J Adv Nurs** 1996 Sep;24(3):512–21

Culture, needs and nursing: a critical theory approach. Holmes CA, et al. **J Adv Nurs** 1997 Mar;25(3):463–70 (66 ref.)

Patients' needs in hospital: nurses' and patients' views. Lauri S, et al. **J Adv Nurs** 1997 Feb;25(2):339–46

The problems of elderly people at home one week after discharge from an acute care setting. Mistiaen P, et al. **J Adv Nurs** 1997 Jun;25(6):1233–40

Occupational need in severe dementia: a descriptive study. Perrin T. **J Adv Nurs** 1997 May;25(5):934–41

A focus group inquiry into the perceptions of primary health care teams and the provision of health care for adults with a learning disability living in the community. Thornton C. **J Adv Nurs** 1996 Jun;23(6):1168–76

Foster care: an update. Rosenfeld AA, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Apr;36(4):448–57 (57 ref.)

Estimating workforce and training requirements for nephrologists through the year 2010. Ad Hoc Committee on Nephrology Manpower Needs. **J Am Soc Nephrol** 1997 May;8(5 Suppl 9):S9–13, i–xxii, 1–32 passim

Estimating workforce and training requirements for nephrologists through the year 2010: pediatric perspectives [editorial] Chevalier RL. **J Am Soc Nephrol** 1997 May; 8(5):846–7

The Ad Hoc Committee report on estimating the future workforce and training requirements for nephrology. The Ad Hoc Committee on Nephrology Manpower Needs. Neilson EG, et al. **J Am Soc Nephrol** 1997 May;8(5 Suppl 9):S1–4

Future workforce needs for pediatric nephrology: an analysis of the nephrology workforce and training requirements by the Workforce Committee of the American Society of Pediatric Nephrology. Stapleton FB, et al. **J Am Soc Nephrol** 1997 May;8(5 Suppl 9):S5–8

Needs assessment of caregivers of people with HIV/AIDS. Theis SL, et al. **J Assoc Nurses AIDS Care** 1997 May–Jun; 8(3):76–84

Haitian Americans: implications for nursing care. Holcomb LO, et al. **J Community Health Nurs** 1996;13(4):249–60 (32 ref.)

Needs of caregivers of clients with multiple sclerosis. Sato A, et al. **J Community Health Nurs** 1996;13(1):31–42

Proxies for healthcare need among populations: validation of alternatives—a study in Quebec. Birch S, et al. **J Epidemiol Community Health** 1996 Oct;50(5):564–9

Non-urgent care in the hospital medical emergency department in France: how much and which health needs does it reflect? Lang T, et al. **J Epidemiol Community Health** 1996 Aug;50(4):456–62

The need and demand for renal replacement therapy in ethnic minorities in England. Roderick PJ, et al. **J Epidemiol Community Health** 1996 Jun;50(3):334–9

Determining specific health care needs of rural communities [letter] Escovitz A, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):285–9

Can markets give us the health system we want? [see comments] Rice T. **J Health Polit Policy Law** 1997 Apr; 22(2):383–426 (76 ref.). Comment in: J Health Polit Policy Law 1997 Apr;22(2):467–73. Comment in: J Health Polit Policy Law 1997 Apr;22(2):475–96.

Undergraduate education in mental health in UP and MP: a need for redemption. Shukla GD. **J Indian Med Assoc** 1996 Feb;94(2):62–3, 65

The market for residential and day schools for children with severe emotional disturbance. Spencer CS, et al. **J Ment Health Adm** 1997 Winter;24(1):72–81

Research priorities for nurses caring for persons with multiple sclerosis. Nursing Research Speciality Group of the Consortium of Multiple Sclerosis Centers. Gulick EE. **J Neurosci Nurs** 1996 Oct;28(5):314–21

Validity and reliability of the family inventory of needs (FIN): measuring the care needs of families of advanced cancer patients. Kristjanson LJ, et al. **J Nurs Meas** 1995 Winter;3(2):109–26

A call for universal health coverage? [letter] [corrected and republished letter originally printed in J Okla State Med Assoc 1997 May–Jun;90(5):199–200] Dewberry GP Jr. **J Okla State Med Assoc** 1997 Jul–Aug;90(6):342–3

Need and desire for orthodontic (re-)treatment in 35-year-old Norwegians. Stenvik A, et al. **J Orofac Orthop** 1996 Dec;57(6):334–42 **(Eng, Ger)**

Health status of Victorian special school children [corrected and republished article originally printed in J Paediatr Child Health 1995 Oct;31(5):423–7] [see comments] Ackland MJ, et al. **J Paediatr Child Health** 1995 Dec; 31(6):571–5. Comment in: J Paediatr Child Health 1996 Aug;32(4):353–4.

A systems approach to adolescent transitions: an opportunity for nurses [editorial] Betz CL. **J Pediatr Nurs** 1996 Oct; 11(5):271–2

Do nurses and parents of children with chronic conditions agree on parental needs? Graves C, et al. **J Pediatr Nurs** 1996 Oct;11(5):288–99

Home community cancer care: parents' perspectives. Mercer M, et al. **J Pediatr Nurs** 1997 Jun;12(3):133–41

The needs of parents of pediatric oncology patients during the palliative care phase. James L, et al. **J Pediatr Oncol Nurs** 1997 Apr;14(2):83–95

A plea for homeless people. Smith JP. **J Prof Nurs** 1997 Sep–Oct;13(5):277

Perspectives of pregnant substance-using women: findings from the California Perinatal Needs Assessment. Klein D, et al. **J Psychoactive Drugs** 1997 Jan–Mar;29(1):55–66

Psychiatric home health care [letter] Rupe M. **J Psychosoc Nurs Ment Health Serv** 1996 Jun;34(6):55

From consultation to complexity of care prediction and health service needs assessment [editorial] Huyse FJ. **J Psychosom Res** 1997 Sep;43(3):233–40

Evaluation of the woman's drop-in service in Benarty, Fife. Campbell H, et al. **J Public Health Med** 1996 Jun; 18(2):143–51

Participatory analysis for redefining health delivery in a Bombay slum. Emmel ND, et al. **J Public Health Med** 1996 Sep;18(3):301–7

New players for a new era: responding to the global public health challenges. Kickbusch I. **J Public Health Med** 1997 Jun;19(2):171–8

Pathways to orthodontic care. Kisely S, et al. **J Public Health Med** 1997 Jun;19(2):148–55

Use of the Nottingham Health Profile to test the validity of census variables to proxy the need for health care. Plant P, et al. **J Public Health Med** 1996 Sep;18(3):313–20

'Too tired to go to the support group': a health needs assessment of myalgic encephalomyelitis. Sutton GC. **J Public Health Med** 1996 Sep;18(3):343–9

Unfinished business of the 20th century. United Nations Children's Fund (UNICEF) [editorial] **J Public Health Policy** 1997;18(1):5–7

Increasing demand for dermatological services [letter] Poyner T. **J R Coll Physicians Lond** 1997 Jul–Aug; 31(4):468–9

Home visits to elderly patients in Saudi Arabia. al Shammari SA. **J R Soc Health** 1997 Jun;117(3):174–9

Preliminary development of the School Health Intensity Rating Scale. Burt CJ, et al. **J Sch Health** 1996 Oct; 66(8):286–90

Rural school-based clinics: are adolescents willing to use them and what services do they want? Rickert VI, et al. **J Sch Health** 1997 Apr;67(4):144–8

Characteristics and treatment needs of sexually abused pregnant women in drug rehabilitation. The Massachusetts MOTHERS Project. Daley M, et al. **J Subst Abuse Treat** 1997 Mar–Apr;14(2):191–6

Neurosurgical trauma call: use of a mathematical simulation program to define manpower needs. Lucas CE, et al. **J Trauma** 1997 May;42(5):818–23; discussion 823–4

Posttraumatic stress, mental health professionals, and the clergy: a need for collaboration, training, and research. Weaver AJ, et al. **J Trauma Stress** 1996 Oct;9(4):847–56 (54 ref.)

Benchmarking the physician workforce [letter; comment]

Floch MH. **JAMA** 1997 Mar 26;277(12):964–5; discussion 965–6. Comment on: JAMA 1996 Dec 11;276(22):1811–7. Comment on: JAMA 1996 Dec 11;276(22):1841–3.

Providing support and assistance for low–income or homeless women [letter; comment] Plummer L, et al. **JAMA** 1996 Dec 18;276(23):1874–5. Comment on: JAMA 1996 Aug 28;276(8):640–6.

Benchmarking the physician workforce [letter; comment] Sekscenski ES, et al. **JAMA** 1997 Mar 26;277(12):965; discussion 965–6. Comment on: JAMA 1996 Dec 11;276(22):1811–7. Comment on: JAMA 1996 Dec 11;276(22):1841–3.

Vesicovaginal fistula––more than an obstetric problem. Bhutta SZ. **JPMA J Pak Med Assoc** 1996 Jun;46(6):135–6

Practical problems in the management of leprosy. Ramesh V, et al. **Lepr Rev** 1996 Dec;67(4):330–6 (42 ref.)

Does fluoridation reduce the use of dental services among adults? Grembowski D, et al. **Med Care** 1997 May; 35(5):454–71

Limitations of epidemiologically based needs assessment. The case of prostatectomy. Sanderson CF, et al. **Med Care** 1997 Jul;35(7):669–85

Characteristics of longer consultations in Australian general practice. Martin CM, et al. **Med J Aust** 1997 Jul 21; 167(2):76–9

Meeting the challenge of adolescent mental health [editorial] Patton GC. **Med J Aust** 1997 Apr 21;166(8):399–400 (18 ref.)

Children in families with a mentally ill member––who cares? Axelsson–Ostman M. **Med Law** 1996;15(2):249–55

Assessment of the perceived need for a psychiatric service to a magistrates' court. Evans J, et al. **Med Sci Law** 1997 Apr;37(2):161–4

A proposal for the training of regional medical experts. Johnson DE. **Mil Med** 1997 Aug;162(8):533–6 (11 ref.)

The golden boom: the health needs of seniors. Noonan SS. **N J Med** 1997 Sep;94(9):31, 33–4

Self–reported dental status and treatment need among elderly people. Thomson WM, et al. **N Z Dent J** 1996 Dec; 92(410):105–9

Health needs of Cambodian and Vietnamese refugees in Porirua. Blakely T. **N Z Med J** 1996 Oct 11; 109(1031):381–4

How many neonates in New Zealand would qualify for extracorporeal membrane oxygenation? Bloomfield GP, et al. **N Z Med J** 1997 Jun 13;110(1045):207–9

Views of Pacific Islands people with noninsulin dependent diabetes: a Wellington survey. Mitikulena A, et al. **N Z Med J** 1996 Dec 13;109(1035):467–9

Comparing health expenditure [letter; comment] [see comments] Neutze JM, et al. **N Z Med J** 1996 Oct 11; 109(1031):388. Comment on: N Z Med J 1996 Aug 23;109(1028):325–6. Comment in: N Z Med J 1996 Nov 8;109(1033):431–2.

Letter from Johannesburg [news] Walker AR. **Natl Med J India** 1996 Jan–Feb;9(1):38–9

Meeting the diverse needs of clients in the community: effective use of the referral process. McGuire SL, et al. **Nurs Outlook** 1996 Sep–Oct;44(5):218–22 (11 ref.)

The plight of the elderly in managed care systems [news] Whall AL. **Nurs Outlook** 1996 Sep–Oct;44(5):245–6

Concerns about children with disabilities [letter] Maheady DC. **Nurse Pract** 1997 Mar;22(3):240, 242

Needs assessment in general practice. Gillam SJ, et al. **Occas Pap R Coll Gen Pract** 1996 Oct;(73):1–55 (200 ref.)

Healthcare reform must not compromise patient care [letter] Murphy MC. **Oncol Nurs Forum** 1996 Oct;23(9):1373–4

The needs of patients with cancer and their caregivers in rural areas. Silveira JM, et al. **Oncol Nurs Forum** 1997 Jan–Feb;24(1):71–6

Needs of family caregivers of patients receiving home hospice care for cancer. Steele RG, et al. **Oncol Nurs Forum** 1996 Jun;23(5):823–8

Needs and experiences of family caregivers during marrow transplantation. Stetz KM, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1422–7

Medical education––addressing the needs of the dying child. Charlton R. **Palliat Med** 1996 Jul;10(3):240–6 (79 ref.)

Support needs in the last year of life: patient and carer dilemmas. Grande GE, et al. **Palliat Med** 1997 May; 11(3):202–8

Health needs of homeless children and families. American Academy of Pediatrics, Committee on Community Health Services. **Pediatrics** 1996 Oct;98(4 Pt 1):789–91

Meeting unmet need: new strategies. Robey B, et al. **Popul Rep J** 1996 Sep;(43):1–35 (247 ref.)

The need for psychiatric treatment in the general population: the Camberwell Needs for Care Survey. Bebbington PE, et al. **Psychol Med** 1997 Jul;27(4):821–34

Audit of school entry health assessments: to maximise efficient use of health personnel at school entry assessments at 5 years. Leff S, et al. **Public Health** 1996 Sep; 110(5):289–92

Community care in South Thames (West) Region: is needs assessment working? Leicester MC, et al. **Public Health** 1996 Mar;110(2):109–13

Early recognition of children with special educational needs: report from a district. Sethi VD, et al. **Public Health** 1996 Mar;110(2):107–8

Social support as road map and vehicle: an analysis of data from focus group interviews with a group of African American women. Di Martile Bolla C, et al. **Public Health Nurs** 1996 Oct;13(5):331–6

Health promotion needs of students in a college environment. Fish C, et al. **Public Health Nurs** 1996 Apr;13(2):104–11

Measuring the need for nursing care in older adults living at home. Hays BJ, et al. **Public Health Nurs** 1997 Feb; 14(1):37–41

Giving voice to elderly people: community–based long–term care. Krothe JS. **Public Health Nurs** 1997 Aug;14(4):217–26

Collaboration between communities and universities: completion of a community needs assessment. Kulig JC, et al. **Public Health Nurs** 1996 Apr;13(2):112–9

Access to health promotion, protection, and disease prevention among impoverished individuals. Northam S. **Public Health Nurs** 1996 Oct;13(5):353–64

Enhancing the role public health nurses play in serving children with special health needs: an interactive videoconference on Public Law 99–457 Part H. Reiss J, et al. **Public Health Nurs** 1996 Oct;13(5):345–52

Identification of needs of and utilization of resources by rural and urban elders after hospital discharge to the home. Schultz AA. **Public Health Nurs** 1997 Feb;14(1):28–36

Public perceptions of brain tumours in Scotland: the need for access to appropriate information. Whittle IR, et al. **Scott Med J** 1996 Jun;41(3):87–9

Scope for fly control as a diarrhoea intervention in Pakistan: a community perspective. Chavasse D, et al. **Soc Sci Med** 1996 Oct;43(8):1289–94

The impact of anomia as a factor in a demand resource model of health. Freidl W. **Soc Sci Med** 1997 May;44(9):1357–65

Do preventive health services reduce eventual demand for medical care? Nakanishi N, et al. **Soc Sci Med** 1996 Sep; 43(6):999–1005

The poor pay more: health–related inequality in Thailand. Pannarunothai S, et al. **Soc Sci Med** 1997 Jun; 44(12):1781–90

Families of adults with mental retardation: stress levels and need for services. Hayden MF, et al. **Soc Work** 1996 Nov; 41(6):657–67

Affordable housing: a basic need and a social issue [editorial] Mulroy EA, et al. **Soc Work** 1996 May;41(3):245–9

Puerto Rican elders and botanical shops: a community resource or liability? Delgado M. **Soc Work Health Care** 1996;23(1):67–81 (25 ref.)

The urgency of visits to hospital emergency departments: data from the National Hospital Ambulatory Medical Care Survey (NHAMCS), 1992 [see comments] Schappert SM. **Stat Bull Metrop Insur Co** 1995 Oct–Dec;76(4):10–9. Comment in: Stat Bull Metrop Insur Co 1995 Oct–Dec;76(4):20.

On urgency and appropriateness [comment] Schulman RD. **Stat Bull Metrop Insur Co** 1995 Oct–Dec;76(4):20. Comment on: Stat Bull Metrop Insur Co 1996 Oct–Dec;76(4):10–9.

A community–based investigation of avoidable factors for maternal mortality in Zimbabwe. Fawcus S, et al. **Stud Fam Plann** 1996 Nov–Dec;27(6):319–27

Health problems of migrant farm workers. **Tex Med** 1996 Oct;92(10):25

Immigrants needing health care in Texas. Hargraves MA. **Tex Med** 1996 Oct;92(10):64–77

Needs of the Hispanic elderly reflect cultural differences. Otiniano ME, et al. **Tex Med** 1996 Oct;92(10):33–4

How to bring surgery to remote tribal areas. Gnanaraj J, et al. **Trop Doct** 1997 Jul;27(3):163–5

A coverage plan for health centres in Murewa district in Zimbabwe: an example of action research. Criel B, et al. **Trop Med Int Health** 1996 Oct;1(5):699–709

Blood demand in a teaching Hospital in Ghana. Acquaye JK, et al. **West Afr J Med** 1997 May–Jun;16(2):97–101

National action plans for nursing and midwifery. Leenders F, et al. **WHO Reg Publ Eur Ser** 1997;74:145–66 (16 ref.)

Nursing up to and beyond the year 2000. Robinson J, et al. **WHO Reg Publ Eur Ser** 1997;74:127–44 (22 ref.)

A comparison of the perceived health needs of Amish and non–Amish families in Cashton, Wisc. Dickinson N, et al. **Wis Med J** 1996 Mar;95(3):151–6

Community health planning––Oneida County, 1995. Hilliker M, et al. **Wis Med J** 1997 Jan;96(1):53–5

At risk for HIV infection: incarcerated women in a county jail in Philadelphia. Bond L, et al. **Women Health** 1996; 24(4):27–45

Women's health in HMOs: what we know and what we need to find out. Bernstein AB. **Womens Health Issues** 1996 Jan–Feb;6(1):51–9 (26 ref.)

Planning for women's health care services. Warner CK. **Womens Health Issues** 1996 Jan–Feb;6(1):60–3 (4 ref.)

[Profile of the strain on the psychiatric departments in the county of Arhus] Jensen HM. **Ugeskr Laeger** 1997 Jul 14; 159(29):4512–6 (Eng. Abstr.) **(Dan)**

[Evaluation of a classification of newborns and maternity wards in the Loire–Atlantique department] Branger B, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(7):723–8 (Eng. Abstr.) **(Fre)**

[What laboratory facilities for developing countries?] Martet G, et al. **Med Trop (Mars)** 1997;57(2):143 **(Fre)**

[Women's health] Saurel–Cubizolles MJ. **Rev Epidemiol Sante Publique** 1997 Jun;45(3):262–3 **(Fre)**

[The search...for health economics research in Africa] Letouzé D, et al. **Sante** 1996 Nov–Dec;6(6):366–70 (10 ref.) **(Fre)**

[Needs and utilization of ambulatory psychosocial services by cancer patients––exemplified by the oncologic day clinic] Beutel M, et al. **Psychother Psychosom Med Psychol** 1996 Aug;46(8):304–11 (Eng. Abstr.) **(Ger)**

[Indices of treatment needs in orthodontics: the applicability of the DAI (Dental Aesthetic Index)] Monaco A, et al. **Minerva Stomatol** 1997 May;46(5):279–86 (Eng. Abstr.) **(Ita)**

[Required manpower for health care and nursing services for the aged at home public health nurses, visiting nurses, dental hygienists, dietitians, physical therapists, and occupational therapists] Ojima T, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):273–82 (Eng. Abstr.) **(Jpn)**

[Health care needs of the elderly in long–term care facilities and their suitable placements for care] Yamazaki K, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):257–64 (Eng. Abstr.) **(Jpn)**

[The practical theory of occupational health planning: Part One––The theoretical background of the target population setting and needs assessment procedures (OPST research report 2)] Jahng DJ, et al. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):193–201 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Nationwide estimation of social services necessary for people with schizophrenia receiving outpatient medical care] Kuroda K, et al. **Seishin Shinkeigaku Zasshi** 1997; 99(2):79–90 **(Jpn)**

[Unlimited demand for specialists?] Skoglund E. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3321–2 **(Nor)**

[Health and the sociomedical needs of the young family] Kicha DI, et al. **Probl Sotsialnoi Gig Istor Med** 1994 Sep–Oct;(5):12–6 (Eng. Abstr.) **(Rus)**

[Methods for estimating and predicting the demand for stomatologic personnel] Leus PA. **Stomatologiia (Mosk)** 1995;74(6):55–7 (Eng. Abstr.) **(Rus)**

[The methodological aspects in determining standards in the demand for surgical beds] Bobiĭ BV, et al. **Voen Med Zh** 1997 May;318(5):4–10 **(Rus)**

[Since that is given...: a common problem in primary care (letter)] Ferrer Mora A, et al. **Aten Primaria** 1997 Feb 15; 19(2):102 **(Spa)**

[Family physicians and the demand for care. An opinion poll] Loayssa Lara JR, et al. **Aten Primaria** 1997 Jun 15; 20(1):34–40 (Eng. Abstr.) **(Spa)**

[Effects of chronic diseases on the use of primary care by the aged] López Navarrete E, et al. **Aten Primaria** 1997 Feb 15;19(2):92–5 (Eng. Abstr.) **(Spa)**

[Episodes of sickness attended by general/family physicians according to demographic context. 2. Utilization] Palomo Cobos L, et al. **Aten Primaria** 1997 Jun 30;20(2):82–9 (Eng. Abstr.) **(Spa)**

[Validity of the attendance pressure indicator in a primary care area] Rodríguez Ortiz de Salazar B, et al. **Aten Primaria** 1997 Feb 15;19(2):84–8 (Eng. Abstr.) **(Spa)**

[Equal health care] Allebeck P. **Lakartidningen** 1996 Oct 16; 93(42):3667–8 **(Swe)**

[A strongly misleading picture of the needs of patients with dementia in the HSU2000 report (letter)] Karlsson I. **Lakartidningen** 1996 Dec 18;93(51–52):4716 **(Swe)**

[The central committee of the Medical Society: Sweden needs all its physicians!] Leth R. **Lakartidningen** 1997 Feb 12;94(7):493–4 **(Swe)**

[Increased pressure on health care services with liberal alcohol policy] Lind J. **Lakartidningen** 1996 Oct 9; 93(41):3532–3 **(Swe)**

[Ingenious feedback system benefits recovery (letter)] Löfqvist A. **Lakartidningen** 1997 Apr 9;94(15):1363 **(Swe)**

CLASSIFICATION

What many of us are doing or should be doing in clinical pathology: a list of the activities of the pathologist in the clinical laboratory. Laposata M. **Am J Clin Pathol** 1996 Nov;106(5):571–3

Defining and implementing medical necessity in Washington State and Oregon. Jacobson PD, et al. **Inquiry** 1997 Summer;34(2):143–54

ECONOMICS

An index of implant treatment need (IITN) [editorial] Beckett H, et al. **Br Dent J** 1997 Mar 8;182(5):160–1

An index of need for psychiatric services based on in–patient utilisation [see comments] Smith P, et al. **Br J Psychiatry** 1996 Sep;169(3):308–16; discussion 317–21 . Comment in: Br J Psychiatry 1996 Dec;169(6):792.

The market is a strange creature: family medicine meeting the challenges of the changing political and socioeconomic structure. Westin S. **Fam Pract** 1995 Dec;12(4):394–401 (37 ref.)

Economic depression and the use of physician services in Finland. Häkkinen U, et al. **Health Econ** 1996 Sep–Oct; 5(5):421–34

Bridging the gap between public expectations and public willingness to pay [editorial] Smee CH. **Health Econ** 1997 Jan–Feb;6(1):1–9

Meeting the service needs of HIV–infected persons: is the Ryan White CARE Act succeeding? Marx R, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jan 1;14(1):44–55

Cost and demand analysis of excimer laser use: first World Wide Web Internet survey of the interest in refractive surgery. Borer MJ, et al. **J Cataract Refract Surg** 1996 Jul-Aug;22(6):709-12

Rethinking patient placement: the human service matrix model for matching services to needs. McGee MD, et al. **J Subst Abuse Treat** 1997 Mar-Apr;14(2):141-8 (75 ref.)

How economic demand influences access to medical care for rural Hispanic children. Smith MW, et al. **Med Care** 1996 Nov;34(11):1135-48

[Managed care. Economic evaluation. Necessity, possibilities and limits] Oberender P. **Fortschr Med** 1997 May 20; 115(14):38-40 (Eng. Abstr.) **(Ger)**

[The need for preventive measures. Need for preventive measures at any price? Attempt at an argument in favor of the need for prevention not only for economic reasons (published erratum appears in Gesundheitswesen 1996 Dec;58(12):702)] Nadolski H, et al. **Gesundheitswesen** 1996 Aug-Sep;58(8-9):432-41 (160 ref.) **(Ger)**

[The economic costs in the production of health services: from the cost of inputs to the cost of case management] Arredondo A, et al. **Salud Publica Mex** 1997 Mar-Apr; 39(2):117-24 (Eng. Abstr.) **(Spa)**

HISTORY

Changing demographics: past and future demands for early childhood programs. Hernandez DJ. **Future Child** 1995 Winter;5(3):145-60

LEGISLATION & JURISPRUDENCE

Needs-based health care rights. Jindal B, et al. **J La State Med Soc** 1996 Jul;148(7):309-18

ORGANIZATION & ADMINISTRATION

Urgency in the emergency [letter; comment] Afilalo M, et al. **Can Med Assoc J** 1996 Oct 15;155(8):1038, 1040. Comment on: Can Med Assoc J 1996 May 1;154(9):1345-51.

Urgency in the emergency [letter; comment] Eppler J. **Can Med Assoc J** 1996 Oct 15;155(8):1038. Comment on: Can Med Assoc J 1996 May 1;154(9):1345-51.

Needs assessment of community-based services for children and youth with emotional or behavioral disorders and their families: Part 1. A conceptual model. Epstein MH, et al. **J Ment Health Adm** 1996 Fall;23(4):418-31

Needs assessment of community-based services for children and youth with emotional or behavioral disorders and their families: Part 2. Implementation in a local system of care. Quinn K, et al. **J Ment Health Adm** 1996 Fall;23(4):432-46

A call for universal health coverage [letter; comment] [corrected and republished in J Okla State Med Assoc 1997 Jul-Aug;90(6):342-3] Dewberry GP. **J Okla State Med Assoc** 1997 May-Jun;90(5):199-200. Comment on: J Okla State Med Assoc 1997 Apr;90(4):150-6.

Clarification of state HMO-Medicaid [letter; comment] Grana WA. **J Okla State Med Assoc** 1997 May-Jun; 90(5):200. Comment on: J Okla State Med Assoc 1997 Apr;90(4):135-8.

Assessment and rehabilitation of children with special needs. Ciner EB, et al. **Optom Clin** 1996;5(2):187-226 (46 ref.)

Mid-level practitioners help physicians meet growing medical needs. Kennedy M. **Wis Med J** 1997 Jun;96(6):8-11 (0 ref.)

STANDARDS

Identifying older people with dementia: the effectiveness of a multiservice census. Gordon DS, et al. **Int J Geriatr Psychiatry** 1997 Jun;12(6):636-41

Meeting the vision care needs of aircraft pilots. Asmus TL, et al. **J Am Optom Assoc** 1997 Feb;68(2):116-24 (15 ref.)

STATISTICS & NUMERICAL DATA

Dental health and dental treatment needs among recruits of the Finnish Defence Forces, 1919-91. Ankkuriniemi O, et al. **Acta Odontol Scand** 1997 Jun;55(3):192-7

Caries experience and treatment need among adults responding to an invitation for dental examination and treatment in two Karelian communities in Russia. Honkala E, et al. **Acta Odontol Scand** 1996 Jun;54(3):171-5

Establishing and using a community inter-agency client monitoring system to develop addictions treatment programs. DeVillaer M. **Addiction** 1996 May;91(5):701-9

Aging families of adults with mental retardation: patterns and correlates of service use, need, and knowledge. Smith GC. **Am J Ment Retard** 1997 Jul;102(1):13-26

Comparing and contrasting two orthodontic indices, the Index of Orthodontic Treatment need and the Dental Aesthetic Index [published erratum appears in Am J Orthod Dentofacial Orthop 1997 Apr;111(4):454] Jenny J, et al. **Am J Orthod Dentofacial Orthop** 1996 Oct; 110(4):410-6

Assessing substance abuse treatment needs among the homeless: a telephone-based interactive voice response system. Aiemagno SA, et al. **Am J Public Health** 1996 Nov; 86(11):1626-8

Unmet health care needs and mortality among Spanish elderly. Alonso J, et al. **Am J Public Health** 1997 Mar; 87(3):365-70

Estimating local-area needs for psychiatric care: a case study. Lesage AD, et al. **Br J Psychiatry** 1996 Jul;169(1):49-57

The uses and limitations of mental health service needs indices [letter; comment] Thornicroft G. **Br J Psychiatry** 1996 Dec;169(6):792. Comment on: Br J Psychiatry 1996 Sep;169(3):308-16; discussion 317-21.

The demand for eating disorder care. An epidemiological study using the general practice research database. Turnbull S, et al. **Br J Psychiatry** 1996 Dec;169(6):705-12

Predicting future long-term-care needs in a community. Salmoni AW, et al. **Can J Public Health** 1996 Nov-Dec; 87(6):418-21

Study questions whether equalization of health care services a logical goal. OReilly M. **Can Med Assoc J** 1997 Feb 1;156(3):413-5

Index of Orthodontic Treatment Need, its use in a dental epidemiology survey calibration exercise. Jones CM, et al. **Community Dent Health** 1996 Dec;13(4):208-10

DMFT and treatment needs in adult population of Oviedo, Spain. Alvarez-Arenal A, et al. **Community Dent Oral Epidemiol** 1996 Feb;24(1):17-20

Bridging the gap between service need and service utilization: a school-based mental health program. Armbruster P, et al. **Community Ment Health J** 1997 Jun;33(3):199-211

The demographics of disability in the south. Holzer CE 3rd, et al. **Community Ment Health J** 1996 Oct;32(5):431-43

Research on mental health services for Hispanics: targets of convergence. Rogler LH. **Cult Divers Ment Health** 1996; 2(3):145-56 (60 ref.)

Treatment needs and experiences of Australian women with alcohol and other drug problems. Swift W, et al. **Drug Alcohol Depend** 1996 Mar;40(3):211-9

Oral health status and treatment needs in immigrants and refugees in Italy. Angelillo IF, et al. **Eur J Epidemiol** 1996 Aug;12(4):359-65

Will minority physician supply meet U.S. needs? Libby DL, et al. **Health Aff (Millwood)** 1997 Jul-Aug;16(4):205-14

Global budgets and excess demand for hospital care. Feldman R, et al. **Health Econ** 1997 Mar-Apr;6(2):187-96 (20 ref.)

Measuring the need for medical care in an ethnically diverse population. Osmond DH, et al. **Health Serv Res** 1996 Dec; 31(5):551-71

Genetic and environmental contributions to healthcare need and utilization: a twin analysis. True WR, et al. **Health Serv Res** 1997 Apr;32(1):37-53

Medicare. Just the factoids, ma'am [news] **Hosp Health Netw** 1997 Sep 5;71(17):16

Periodontal status and treatment needs in a rural area of Ukonga, Tanzania. Mumghamba EG, et al. **Int Dent J** 1996 Jun;46(3):156-60

The elderly homeless men in Bloomsbury hostels: their needs for services. Abdul-Hamid W. **Int J Geriatr Psychiatry** 1997 Jul;12(7):724-7

Profiling the care needs of the population with dementia: a survey in central Scotland. Gordon DS, et al. **Int J Geriatr Psychiatry** 1997 Jul;12(7):753-9

Home-based assessment for family carers: a preventative strategy to identify and meet service needs. Nankervis J, et al. **Int J Geriatr Psychiatry** 1997 Feb;12(2):193-201

The provision of psychiatric care in southern Italy. Results from the 'Psychiatry in Southern Italy's Services' (De PISIS) survey. Marino S, et al. **Int J Soc Psychiatry** 1996 Autumn;42(3):181-92

Cost and demand analysis of excimer laser use: first World Wide Web Internet survey of the interest in refractive surgery. Borer MJ, et al. **J Cataract Refract Surg** 1996 Jul-Aug;22(6):709-12

Chronic care crisis: escalating cost and incidence [news] Hoeksema MJ. **J Natl Cancer Inst** 1997 Jan 1;89(1):16-7

GP attendance by elderly Australians: evidence for unmet need in elderly men. Jacomb PA, et al. **Med J Aust** 1997 Feb 3;166(3):123-6

Oral health problems and treatment needs in Danish military personnel recruited for United Nations service. Marker OT, et al. **Mil Med** 1997 Jun;162(6):416-21

Comparison of provision and need for publicly-funded personal health services. Sutton F, et al. **N Z Med J** 1997 Sep 12;110(1051):336-9

The use and costs of physician services for ophthalmic surgical procedures in 1988 and 1991. Javitt JC, et al. **Ophthalmic Surg Lasers** 1996 Jul;27(7):575-82

Assessment of service needs of adult psychiatric inpatients: a systematic approach. Kazarian SS, et al. **Psychiatr Q** 1997 Spring;68(1):5-23

Estimating psychiatric manpower requirements based on patients' needs. Faulkner LR, et al. **Psychiatr Serv** 1997 May;48(5):666-70

A brief method of assessing adult inpatients' level of need for community support systems. Kazarian SS, et al. **Psychiatr Serv** 1996 Jun;47(6):654-6

Homeless mentally ill clients' and providers' perceptions of service needs and clients' use of services. Rosenheck R, et al. **Psychiatr Serv** 1997 Mar;48(3):381-6

Downsizing the physician workforce [see comments] McClendon BJ, et al. **Public Health Rep** 1997 May-Jun; 112(3):231-9 (48 ref.). Comment in: Public Health Rep 1997 May-Jun;112(3):219-21.

Neurosurgical manpower needs--achieving a balance. Harrington TR. **Surg Neurol** 1997 Apr;47(4):316-20; discussion 320-5

Estimating coverage of a community-based home care programme. Drew RS, et al. **Trop Doct** 1997 Oct; 27(4):210-4

Access to health care. Part 3: Older adults. Cohen RA, et al. **Vital Health Stat 10** 1997 Jul;(198):1-32

Access to health care. Part 1: Children. Simpson G, et al. **Vital Health Stat 10** 1997 Jul;(196):1-46

[An indicator of needs for the regional allocation of public health resources in Quebec] Ferland P, et al. **Can J Public Health** 1996 Jul-Aug;87(4):280-5 (Eng. Abstr.) **(Fre)**

[The needs of the population of Omsk Province for different designs of dentures] Semeniuk VM, et al. **Stomatologiia (Mosk)** 1996;Spec No:31-2 **(Rus)**

[Referral and family therapy. A systemic analysis] Garberi Pedros R, et al. **Aten Primaria** 1996 Jun 30;18(2):70-4 (Eng. Abstr.) **(Spa)**

TRENDS

Workforce projections for emergency medicine: how many emergency physicians does the United States need? [see comments] Holliman CJ, et al. **Acad Emerg Med** 1997 Jul; 4(7):725-30. Comment in: Acad Emerg Med 1997 Jul;4(7):648-50.

Analysis of factors affecting U.S. emergency physician workforce projections. SAEM Workforce Task Force [see comments] Holliman CJ, et al. **Acad Emerg Med** 1997 Jul; 4(7):731-5. Comment in: Acad Emerg Med 1997 Jul;4(7):648-50.

Prioritizing performance measures for geriatric medical services: what do the purchasers and providers think? Roberts H, et al. **Age Ageing** 1996 Jul;25(4):326-8

Comparative impact assessment of AIDS: between doomsday and complacency [letter] Jager JC, et al. **AIDS** 1996 Feb; 10(2):238-40

A modest proposal [editorial; comment] Morain WD. **Ann Plast Surg** 1997 Mar;38(3):296-7. Comment on: Ann Plast Surg 1997 Feb;38(2):191-2.

Continuing the debate on a separate adolescent psychiatry. Birleson P, et al. **Aust N Z J Psychiatry** 1997 Aug; 31(4):447-51

Is there a role for child psychiatry in Vietnam? McKelvey RS, et al. **Aust N Z J Psychiatry** 1997 Feb;31(1):114-9

Psychological morbidity in obstetric-gynaecology patients: testing the need for expanded psychiatry services in obstetric-gynaecology facilities [published erratum appears in Aust N Z J Psychiatry 1996 Apr;30(2):308] Phillips N, et al. **Aust N Z J Psychiatry** 1996 Feb;30(1):74-81

The development of a provincial radiation oncology service: the first year report and its implications for future developments. Byram D, et al. **Australas Radiol** 1996 Aug; 40(3):306-9

Dental demands of older people living at home in Hertfordshire: changes over a 10-year period. Kail BI. **Br Dent J** 1996 Mar 9;180(5):185-8

Improving the health status of aboriginal people in Canada: new directions, new responsibilities [editorial; comment] Tookenay VF. **Can Med Assoc J** 1996 Dec 1; 155(11):1581-3. Comment on: Can Med Assoc J 1996 Dec 1;155(11):1569-78.

Race and child welfare services: past research and future directions. Courtney ME, et al. **Child Welfare** 1996 Mar-Apr;75(2):99-137 (68 ref.)

Excess demand meets excess supply as referral companies link Canadian patients, US hospitals. Korcok M. **CMAJ** 1997 Sep 15;157(6):767-70

Future treatment needs in children, adults and the elderly. Holst D, et al. **Community Dent Oral Epidemiol** 1997 Feb; 25(1):113-8 (22 ref.)

School-based mental health services in the United States: history, current models and needs. Flaherty LT, et al. **Community Ment Health J** 1996 Aug;32(4):341-52 (27 ref.)

Population needs assessment for mental health services. Prospects for the future. de Almeida JM. **Epidemiol Psichiatr Soc** 1997 Jan-Apr;6(1 Suppl):59-68

Forecasting the need for physicians in the United States: the Health Resources and Services Administration's physician requirements model. Greenberg L, et al. **Health Serv Res** 1997 Feb;31(6):723-37

Physicians ... specialists, brace yourselves for more future shock [news] **Hosp Health Netw** 1996 Dec 5;70(23):16

Long-term care ... San Francisco area may have to increase the number of nursing home beds [news] **Hosp Health Netw** 1997 Jul 20;71(14):16

Education. Crowded fields [news] **Hosp Health Netw** 1997 Jun 20;71(12):15

Power to the patient [published erratum appears in Hosp Health Netw 1996 Dec 5;70(23):8] Hagland M. **Hosp Health Netw** 1996 Oct 20;70(20):24-6, 28, 30

The demographic face of America's elderly. Waite LJ. **Inquiry** 1996 Fall;33(3):220-4

Medicine in relation to society [editorial] Wolf S. **Integr Physiol Behav Sci** 1996 Oct-Dec;31(4):277-88

Overcoming barriers to improving the health of immigrant women. Gany F, et al. **J Am Med Womens Assoc** 1996 Aug-Oct;51(4):155-60

The rhetorics and realities of community health care: the limits of countervailing powers to meet the health care needs of the twenty-first century [see comments] Light DW. **J Health Polit Policy Law** 1997 Feb;22(1):105-45. Comment in: J Health Polit Policy Law 1997 Feb;22(1):223-30. Comment in: J Health Polit Policy Law 1997 Feb;22(1):231-43.

71st All India Medical Conference. Bhubaneswar: 1995. Grover NK. **J Indian Med Assoc** 1996 May;94(5):182-90

Estimating future workforce and training requirements for oral and maxillofacial surgeons. Patient Service Needs Committee of the American Association of Oral and Maxillofacial Surgeons. **J Oral Maxillofac Surg** 1997 Aug; 55(8):906–9

Developing the nursing role to meet future health care needs in the United Kingdom. Fox P. **J Pediatr Nurs** 1997 Apr; 12(2):126–9

Supply and demand for neonatal intensive care: trends and implications. Schwartz RM. **J Perinatol** 1996 Nov–Dec; 16(6):483–9

Women's health and psychosomatic medicine [editorial] Stewart DE. **J Psychosom Res** 1996 Mar;40(3):221–6

The need for medical beds [letter; comment] Singleton CD. **J Public Health Med** 1996 Jun;18(2):251. Comment on: J Public Health Med 1995 Sep;17(3):290–6.

A market for family practitioners. Mac Auley D. **J R Soc Med** 1997 Aug;90(8):462–3

Medical necessity in Canadian health policy: four meanings and ... a funeral? Charles C, et al. **Milbank Q** 1997; 75(3):365–94 (93 ref.)

Predicted distribution of treatment needs for caries across three indicator age groups by the year 2031 [see comments] Thomson WM. **N Z Dent J** 1997 Jun;93(412):39–43. Comment in: N Z Dent J 1997 Jun;93(412):35.

Estimating eye care workforce supply and requirements. Lee PP, et al. **Ophthalmology** 1995 Dec;102(12):1964–71; discussion 1971–2

The last year of life: mortality, cause of death and need for help among old men. Viitasalo V, et al. **Scand J Soc Med** 1996 Jun;24(2):132–9

Letter from the editor: But who calls that livin'? [editorial] Miller WT. **Semin Roentgenol** 1997 Jul;32(3):145–6

The changing vascular surgery workforce. Stanley JC. **Semin Vasc Surg** 1997 Jun;10(2):65–71

Perspective on the integration of substance user needs assessment and treatment planning. Ford WE. **Subst Use Misuse** 1997 Feb;32(3):343–9; discussion 351–7, 359–60

The needs of women with substance use problems: an expanded vision for treatment. Ramlow BE, et al. **Subst Use Misuse** 1997 Aug;32(10):1395–404

Forecasting cataract blindness—and planning to combat it. Limburg H, et al. **World Health Forum** 1996;17(1):15–20

[Need for nursing care by the elderly: results of a population based retrospective longitudinal study] Bickel H. **Gesundheitswesen** 1996 Jul;58(1 Suppl):56–62 (Eng. Abstr.) **(Ger)**

[Work capacity, severe disability and needs for disability services in Thüringen with respect to demographic change] Böhm B, et al. **Gesundheitswesen** 1996 Feb;58(2):82–4 (Eng. Abstr.) **(Ger)**

[Status of the management of addicted patients—results of an expert survey as the basis for health policy decisions] Fleischmann H, et al. **Gesundheitswesen** 1996 Oct; 58(10):538–42 (Eng. Abstr.) **(Ger)**

[Analysis of psychiatric hospital cases in Hamburg 1988–1994—developmental trends, health care deficiencies and prospects] Maylath E, et al. **Gesundheitswesen** 1997 Jul;59(7):423–33 (Eng. Abstr.) **(Ger)**

[Recent problems of advanced age in humans. I. General problems] Franke H. **Z Gerontol Geriatr** 1996 Jan–Feb; 29(1):51–64 (Eng. Abstr.) **(Ger)**

[Social services and the pressure to modernize: new needs and developmental trends in care of the elderly] Heinze RG, et al. **Z Gerontol Geriatr** 1996 Jan–Feb;29(1):46–50 (Eng. Abstr.) **(Ger)**

[Development of disability in the elderly] Schneekloth U. **Z Gerontol Geriatr** 1996 Jan–Feb;29(1):11–7 (Eng. Abstr.) **(Ger)**

[The prediction of the needs of the medical service for military physicians] Riabinkin VV, et al. **Voen Med Zh** 1996 Oct;317(10):13–6 **(Rus)**

[Supply and demand in the health-related professions] Herrell I. **P R Health Sci J** 1997 Mar;16(1):63–6 **(Spa)**

UTILIZATION

Assessment of needs for care among patients with schizophrenic disorders 15 and 17 years after first onset of psychosis. Wiersma D, et al. **Epidemiol Psichiatr Soc** 1997 Jan–Apr;6(1 Suppl):21–8

[The demand for primary pediatric care] García Llop LA, et al. **An Esp Pediatr** 1996 May;44(5):469–74 (Eng. Abstr.) **(Spa)**

HEALTH SERVICES RESEARCH

A promising process for creating an AHC-managed care organization alliance for research and care. Myers RE, et al. **Acad Med** 1997 May;72(5):321–2

Alcohol and other drug problems and treatment systems: a framework for research and development [editorial] Rush B. **Addiction** 1996 May;91(5):629–42

Summary of track D: social science: research, policy and action. Mane P, et al. **AIDS** 1996 Dec;10 Suppl 3:S123–32 (184 ref.)

Life course development, community epidemiology, and preventive trials: a scientific structure for prevention research [comment] Kellam SG, et al. **Am J Community Psychol** 1997 Apr;25(2):177–88. Comment on: Am J Community Psychol 1997 Apr;25(2):115–52.

Meta-analysis of interventions to prevent mental health problems among youth: a public health commentary [comment] Kolbe LJ. **Am J Community Psychol** 1997 Apr; 25(2):227–32. Comment on: Am J Community Psychol 1997 Apr;25(2):115–52.

An ounce of prevention research: what is it worth? [comment] Koretz DS, et al. **Am J Community Psychol** 1997 Apr;25(2):189–95. Comment on: Am J Community Psychol 1997 Apr;25(2):115–52.

One small step for science, one giant leap for prevention [comment] Manson SM. **Am J Community Psychol** 1997 Apr;25(2):215–9. Comment on: Am J Community Psychol 1997 Apr;25(2):115–52.

In praise of a cumulative prevention science [comment] Price RH. **Am J Community Psychol** 1997 Apr;25(2):169–76. Comment on: Am J Community Psychol 1997 Apr;25(2):115–52.

A meta-analytic review of primary prevention programs for children and adolescents: contributions and caveats [comment] Weissberg RP, et al. **Am J Community Psychol** 1997 Apr;25(2):207–14. Comment on: Am J Community Psychol 1997 Apr;25(2):115–52.

Improving the quality of outcomes research involving pharmaceutical services. Holdford DA, et al. **Am J Health Syst Pharm** 1997 Jun 15;54(12):1434–42 (109 ref.)

Policy implications of outcomes research. Ellek D. **Am J Occup Ther** 1996 Nov–Dec;50(10):886–9

Why race and gender remain important in health services research. Martinez RM. **Am J Prev Med** 1996 Sep–Oct; 12(5):316–8

Are supplementary services provided during methadone maintenance really cost-effective? [see comments] Kraft MK, et al. **Am J Psychiatry** 1997 Sep;154(9):1214–9. Comment in: Am J Psychiatry 1997 Sep;154(9):1195–7.

National Institute of Mental Health Collaborative Multimodal Treatment Study of Children with ADHD (the MTA). Design challenges and choices. Arnold LE, et al. **Arch Gen Psychiatry** 1997 Sep;54(9):865–70

Valuing the past...investing in the future. Blewett N. **Aust N Z J Public Health** 1996 Aug;20(4):343–5

Health transition research at the Australian National University [editorial] Caldwell J. **Aust N Z J Public Health** 1996 Aug;20(4):340–1

Destined to repeat history? Dowsett GW. **Aust N Z J Public Health** 1996 Aug;20(4):345–7

Feachem's report on Australia's National HIV/AIDS Strategy [editorial] Kaldor J. **Aust N Z J Public Health** 1996 Aug;20(4):342–3

Britain's first minister of public health. National public health research and development programme is needed [letter; comment] Crown J, et al. **BMJ** 1997 Jul 5;315(7099):54–5 . Comment on: BMJ 1997 May 24;314(7093):1498–9.

What is total purchasing? Total Purchasing National Evaluation Team. Mays N, et al. **BMJ** 1997 Sep 13; 315(7109):652–5

Into no-man's land. Holt V. **Br Dent J** 1996 Nov 9; 181(9):314–5

Research general practices: what, who and why? Smith LF. **Br J Gen Pract** 1997 Feb;47(415):83–6

Evidence-based audit? Drife JO. **Br J Obstet Gynaecol** 1997 Apr;104(4):ix–xi

A variety of fast neutron beams for radiobiological research. Wolber G, et al. **Bull Cancer Radiother** 1996;83 Suppl:170s–2s

Population groups: indexing, coverage, and retrieval effectiveness of ethnically related health care issues in health sciences databases. Efthimiadis EN, et al. **Bull Med Libr Assoc** 1996 Jul;84(3):386–96

Diary of a novice Cochranite. Random thoughts on the third annual Cochrane Collaboration Colloquium [editorial] Law S. **Can Fam Physician** 1997 Mar;43:401–2, 410–2 **(Eng, Fre)**

Dissemination research in primary care: impacting the real world of the practitioner. Bass MJ. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S71–4

Searching for the knowledge to heal: improving the links between medical research and the consumer. Bourque NM. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S68–70

The case for dissemination research in health promotion and disease prevention. Farquhar JW. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S44–9

Using diffusion theory in health promotion: the case of tobacco. Ferrence R. **Can J Public Health** 1996 Nov–Dec; 87 Suppl 2:S24–7

Evaluation research in public health: barriers to the production and dissemination of outcomes data. Hayward S, et al. **Can J Public Health** 1996 Nov–Dec;87(6):413–7

Similar publications: need for referencing [letter] Katz SJ, et al. **Can J Public Health** 1996 Nov–Dec;87(6):376

Improving the fit between research and practice in health promotion: overcoming structural barriers. Nutbeam D. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S18–23

Health communication research and health promotion. Rootman I. **Can J Public Health** 1996 Nov–Dec;87 Suppl 2:S84–6

Health services research: reporting on studies using secondary data sources [editorial] Huston P, et al. **Can Med Assoc J** 1996 Dec 15;155(12):1697–709 **(Eng, Fre)**

CMA conference to look at role research plays when critical policy decisions are being made. Wharry S. **Can Med Assoc J** 1997 Feb 1;156(3):428–9

Core data set. Importance to health services research, outcomes research, and policy research. Uddin DE, et al. **Comput Nurs** 1997 Mar–Apr;15(2 Suppl):S38–42

Data, data everywhere [editorial; comment] Nelson LD. **Crit Care Med** 1997 Aug;25(8):1265. Comment on: Crit Care Med 1997 Aug;25(8):1320–3.

Outcomes-oriented research and managed care. Chelmow D. **Curr Opin Obstet Gynecol** 1996 Aug;8(4):293–5 (15 ref.)

Epidemiology and health services research. **Curr Opin Rheumatol** 1997 Mar;9(2):B31–42

Health services research and the endocrinologist. Aron DC, et al. **Endocrinol Metab Clin North Am** 1997 Mar; 26(1):113–24 (102 ref.)

Institutional racism and the medical/health complex: a conceptual analysis. King G. **Ethn Dis** 1996 Winter–Spring; 6(1–2):30–46 (99 ref.)

Are black Americans entitled to equal health care? a new research paradigm. Menefee LT. **Ethn Dis** 1996 Winter–Spring;6(1–2):56–68 (47 ref.)

The International Classification of Primary Care (ICPC): new applications in research and computer-based patient records in family practice. Hofmans-Okkes IM, et al. **Fam Pract** 1996 Jun;13(3):294–302 (36 ref.)

Qualitative research: challenges for integration support and dissemination. Jones R. **Fam Pract** 1996 Dec;13 Suppl 1:S22–6

Whom and from what paradigm should health promotion serve? Lewis FM. **Health Educ Q** 1996 Nov;23(4):448–52

Non-profit conversions: a challenge and an opportunity for health services research with a clear "public benefit" [editorial] DeFriese GH. **Health Serv Res** 1996 Dec; 31(5):513–6

Health services research: core values [editorial] Shortell SM. **Health Serv Res** 1997 Apr;32(1):1–2

Shaping the future [editorial] Shortell SM. **Health Serv Res** 1997 Feb;31(6):655–8

"Medical effectiveness" in Canadian and U.S. health policy: the comparative politics of inferential ambiguity. Tanenbaum SJ. **Health Serv Res** 1996 Dec;31(5):517–32 (42 ref.)

Human resources ... cutting corporate insurance costs [news] **Hosp Health Netw** 1997 Jul 5;71(13):13

Employers ... road signs intended help employers put the atlas to use [news] **Hosp Health Netw** 1997 Jul 5;71(13):13

Don't tie the commission's hands [letter] Chapman TW. **Hosp Health Netw** 1997 Jul 20;71(14):10

Hospital watch. Apocalypse then. Meyer HR. **Hosp Health Netw** 1997 Jul 5;71(13):44

John Rother's road trip [interview by Harris Meyer] Rother J. **Hosp Health Netw** 1997 Aug 20;71(16):23

The challenge of care of children with renal disease in developing countries: a Latin American outlook [editorial] Grunberg J. **Indian Pediatr** 1996 Feb;33(2):91–4

Medical savings accounts and research. Swartz K. **Inquiry** 1996 Fall;33(3):216–9

Assessing "quality" in health care: issues in measurement and management [editorial] Kimberly JR. **Int J Qual Health Care** 1997 Jun;9(3):161–2

Quality, context and distributive justice: the role of utilization research and management. Lewis S. **Int J Qual Health Care** 1995 Dec;7(4):325–31

Commissioning genitourinary medicine services: the policy research agenda. Evans D, et al. **Int J STD AIDS** 1996 Mar–Apr;7(2):87–90

Research in school settings. Fisher M, et al. **J Adolesc Health** 1996 May;18(5):309–11

Managing policy research in nursing. Meerabeau L. **J Adv Nurs** 1996 Sep;24(3):633–9 (40 ref.)

Research: The cornerstone of college health's future. Steenbarger BN. **J Am Coll Health** 1996 Mar;44(5):193–218

Geriatrics in managed care: a call for papers [editorial] Brummel-Smith K. **J Am Geriatr Soc** 1997 Sep; 45(9):1150–1

Generalizability of the surveillance, epidemiology, and end results registry population: factors relevant to epidemiologic and health care research. Nattinger AB, et al. **J Clin Epidemiol** 1997 Aug;50(8):939–45

Overcoming obstacles to effective treatment: use of clinical practice improvement methodology. Horn SD. **J Clin Psychiatry** 1997;58 Suppl 1:15–9

Collaborative management to achieve depression treatment guidelines. Katon W, et al. **J Clin Psychiatry** 1997;58 Suppl 1:20–3

Dental health services research and education. Atchison KA. **J Dent Educ** 1997 Jan;61(1):7–9

The role of health services research in the renaissance of the dental profession. Grembowski D. **J Dent Educ** 1997 Jan;61(1):10–5

Variation in the use of crowns and their alternatives. Shugars DA, et al. **J Dent Educ** 1997 Jan;61(1):22–8

Research into purchasing health care: time to face the challenge [see comments] de Wildt G, et al. **J Epidemiol Community Health** 1996 Dec;50(6):611–2. Comment in: J Epidemiol Community Health 1997 Jun;51(3):339.

Health services information and health services research from the British Isles to Europe to Asia, over 40 years [editorial; comment] Donnan S. **J Epidemiol Community Health** 1996 Aug;50(4):383. Comment on: J Epidemiol Community Health 1996 Aug;50(4):384–90.

HEALTH SERVICES RESEARCH

Research into purchasing health care: time to face the challenge [letter; comment] Mays N. **J Epidemiol Community Health** 1997 Jun;51(3):339. Comment on: J Epidemiol Community Health 1996 Dec;50(6):611–2.

The role of research in setting priorities for health care. Lohr KN. **J Eval Clin Pract** 1996 Feb;2(1):79–82 (5 ref.)

Getting research into practice. Sibbald B, et al. **J Eval Clin Pract** 1997 Feb;3(1):15–21 (51 ref.)

Primary care research: current challenges, future needs. Lanier D, et al. **J Fam Pract** 1997 May;44(5):434–8

An ounce of prevention? Evaluation of the 'Put Prevention into Practice' program [see comments] McVea K, et al. **J Fam Pract** 1996 Oct;43(4):361–9. Comment in: J Fam Pract 1996 Oct;43(4):358–60. Comment in: J Fam Pract 1997 May;44(5):430–1.

Beware of false wizards: the need for more research on quality and outcomes in primary care [editorial] Rothemich SF. **J Fam Pract** 1997 Mar;44(3):257–9

One size doesn't fit all. Multimethod research yields new insights into interventions to increase prevention in family practice [editorial; comment] [see comments] Stange KC. **J Fam Pract** 1996 Oct;43(4):358–60. Comment on: J Fam Pract 1996 Oct;43(4):361–9. Comment in: J Fam Pract 1997 May;44(5):430–1.

Health services research related to chiropractic: review and recommendations for research prioritization by the chiropractic profession. Mootz RD, et al. **J Manipulative Physiol Ther** 1997 Mar–Apr;20(3):201–17 (105 ref.)

In search of controlled evidence for health care quality improvement. Balas EA, et al. **J Med Syst** 1997 Feb; 21(1):21–32

Health outcomes research on Hispanics/Latinos. Giachello AL. **J Med Syst** 1996 Oct;20(5):235–54 (41 ref.)

Hispanic/Latino health outcomes research. Introduction to special issue. Gray J, et al. **J Med Syst** 1996 Oct; 20(5):229–33 (23 ref.)

New ethical challenges to mental health services research in the era of community-based care. Wright ER, et al. **J Ment Health Adm** 1997 Spring;24(2):139–51

Normalizing acute care: a day hospital/crisis residence alternative to inpatient hospitalization. Rakfeldt J, et al. **J Nerv Ment Dis** 1997 Jan;185(1):46–52

Health and economic implications of a work-site smoking-cessation program: a simulation analysis. Warner KE, et al. **J Occup Environ Med** 1996 Oct;38(10):981–92

Using area-based measures of socioeconomic status in dental health services research. Locker D, et al. **J Public Health Dent** 1996 Spring;56(2):69–75

Meeting the challenge of change. Adshead F, et al. **J R Coll Physicians Lond** 1996 Jan–Feb;30(1):70–5

Quality in general practice [letter] Baker R. **J R Soc Med** 1997 Jul;90(7):414

Risk-adjustment methods based on health status and functional status [letter; comment] Allman RM. **JAMA** 1997 Feb 19;277(7):530–1. Comment on: JAMA 1996 Oct 23–30;276(16):1316–21.

Are all health plans created equal? The physician's view. Borowsky SJ, et al. **JAMA** 1997 Sep 17;278(11):917–21

Child health services research. Challenges and opportunities. Forrest CB, et al. **JAMA** 1997 Jun 11;277(22):1787–93

Taking health status into account when setting capitation rates: a comparison of risk-adjustment methods [see comments] Fowles JB, et al. **JAMA** 1996 Oct 23–30; 276(16):1316–21. Comment in: JAMA 1997 Feb 19;277(7):530–1.

Managed care and the competitive market in health care. What they can and cannot do [comment] Ginzberg E. **JAMA** 1997 Jun 11;277(22):1812–3. Comment on: JAMA 1997 Feb 19;277(7):560–3.

A piece of my mind. Ambivalence. Greengold NL. **JAMA** 1997 Jul 23–30;278(4):268

The role of cost-effectiveness analysis in health and medicine. Panel on Cost-Effectiveness in Health and Medicine [see comments] Russell LB, et al. **JAMA** 1996 Oct 9; 276(14):1172–7 (51 ref.). Comment in: JAMA 1996 Oct 9;276(14):1180.

Recommendations for reporting cost-effectiveness analyses. Panel on Cost-Effectiveness in Health and Medicine [see comments] Siegel JE, et al. **JAMA** 1996 Oct 23–30; 276(16):1339–41 (17 ref.). Comment in: JAMA 1997 Feb 5;277(5):375.

Effectively costing out options [editorial; comment] Smith JM. **JAMA** 1996 Oct 9;276(14):1180. Comment on: JAMA 1996 Oct 9;276(14):1172–7.

Recommendations of the Panel on Cost-effectiveness in Health and Medicine. Weinstein MC, et al. **JAMA** 1996 Oct 16;276(15):1253–8 (23 ref.)

Measuring the quality of health care: state of the art. Donaldson MS, et al. **Jt Comm J Qual Improv** 1997 May; 23(5):283–92

Health services research: saviour or chimera? Black N. **Lancet** 1997 Jun 21;349(9068):1834–6

Health services research [letter] O'Dwyer PJ. **Lancet** 1997 Aug 16;350(9076):523

Measuring the effects of redesign. Kachoyeanos MK. **MCN Am J Matern Child Nurs** 1997 May–Jun;22(3):163

Predicting treatment-seeking behavior in Guatemala: a comparison of the health services research and decision-theoretic approaches. Weller SC, et al. **Med Anthropol Q** 1997 Jun;11(2):224–45

Informing consumer decisions in health care: implications from decision-making research. Hibbard JH, et al. **Milbank Q** 1997;75(3):395–414 (31 ref.)

Resources and priorities for chronic disease prevention and control, 1994. **MMWR Morb Mortal Wkly Rep** 1997 Apr 4;46(13):286–7

Outcomes research. Clues to quality and organizational effectiveness? Mark BA, et al. **Nurs Clin North Am** 1997 Sep;32(3):589–601 (24 ref.)

Advocacy for health research means advocacy for patient care [news] Woolley M. **Nurs Outlook** 1997 Jan–Feb; 45(1):44

Nutrition research: an investment in the nation's health. Rosenberg IH. **Nutr Rev** 1996 Jan;54(1 Pt 2):S5–6

Outcomes research: a definition? Wilkins RG. **Nutrition** 1997 Jan;13(1):58–9

Health services research: the imperative revisited [editorial] Forman HP. **Radiology** 1997 May;203(2):307–8

Organizing, storing, and analysing qualitative research information in a computer database. Mainz J, et al. **Scand J Prim Health Care** 1997 Mar;15(1):7–9

In what ways do characteristics of psychiatric services determine contact rates and use of services? The Nordic Comparative Study on Sectorized Psychiatry [editorial; comment] Hansson L. **Soc Psychiatry Psychiatr Epidemiol** 1997 Jan;32(1):3–4. Comment on: Soc Psychiatry Psychiatr Epidemiol 1997 Jan;32(1):12–8.

Dynamics of participation in a community health project. Kelly KJ, et al. **Soc Sci Med** 1996 May;42(9):1235–46

North-South health research collaboration: challenges in institutional interaction. Maina-Ahlberg B, et al. **Soc Sci Med** 1997 Apr;44(8):1229–38

Interdisciplinary health research—a symposium. Sachs L, et al. **Soc Sci Med** 1997 Apr;44(8):1209–10

The challenge of practice based research: a group approach. Sidell NL, et al. **Soc Work Health Care** 1996;23(2):99–111

Asian-German partnerships in health research and management. Regional conference of GTZ-supported health projects in Asia. Villa Escudero, Quezon Province, Philippines, 26 February-2 March 1995. Abstracts. **Southeast Asian J Trop Med Public Health** 1996;27 Suppl 1:1–58

Protecting confidentiality in small population health and environmental statistics. Cox LH. **Stat Med** 1996 Sep 15–30; 15(17–18):1895–905

[Answer: improved journalism] Riis P. **Nord Med** 1996 Sep; 111(7):235 **(Dan)**

[Comments on methods and costs of disease management. Necessary research, but difficult (see comments)] Lebrun T. **Rev Mal Respir** 1997 Apr;14(2):69–71. Comment in: Rev Mal Respir 1996 Oct;13(5):507–12. **(Fre)**

[Economics of health systems in developing countries: what is the contribution of work published in french?] Flori YA, et al. **Sante** 1996 Nov–Dec;6(6):360–5 (38 ref.) (Eng. Abstr.) **(Fre)**

[Economics of health in sub-Saharan African countries; comment] Kaddar M. **Sante** 1996 Nov–Dec;6(6):337–9. Comment on: Sante 1996 Nov–Dec;6(6):353–9. **(Fre)**

[Evaluation of measures for improving patient management in diabetes] Trautner C, et al. **Gesundheitswesen** 1996 Sep; 58 Suppl 2:139–43 (11 ref.) (Eng. Abstr.) **(Ger)**

CLASSIFICATION

A new national classification of health services based on clinical effectiveness [editorial] Milner P, et al. **J Public Health Med** 1997 Jun;19(2):127–8

ECONOMICS

A summary of economic evaluations published in the field of rheumatology and related disciplines. Ferraz MB, et al. **Arthritis Rheum** 1997 Sep;40(9):1587–93

Are the lean days for research funding finally coming to an end? Gray C. **CMAJ** 1997 Jun 15;156(12):1748–9

The Chief Scientist reports ... Research notes. **Health Bull (Edinb)** 1997 Jan;55(1):68

Health economics with retrospective data: selection bias issues [letter; comment] Puder KL, et al. **J Int Med Res** 1997 Jan–Feb;25(1):45–51. Comment on: J Int Med Res 1995 Nov–Dec;23(6):395–412.

HISTORY

A little statistical compassion linked to an intense and creative look at healthcare evidence: the genius of Kerr White. Ballard DJ. **Health Serv Res** 1997 Apr;32(1):5–10

Having a foot in both camps: the impact of Kerr White's vision. Brook RH. **Health Serv Res** 1997 Apr;32(1):32–6

The ecology of medical care: origins and implications for population-based healthcare research. White KL. **Health Serv Res** 1997 Apr;32(1):11–21

A personal tribute to Kerr L. White, M.D., my career mentor, colleague, and friend. Williamson JW. **Health Serv Res** 1997 Apr;32(1):22–31

METHODS

Outcomes research: implications for occupational health. Pransky G, et al. **Am J Ind Med** 1996 Jun;29(6):573–83

Measuring quality of care in a psychiatric hospital using artificial neural networks. Davis GE, et al. **Am J Med Qual** 1997 Spring;12(1):33–43

Comment: evaluating the effectiveness of hospital care. Krakauer H. **Am J Public Health** 1997 Jun;87(6):916–7

"Type III" errors in rehab efficacy analyses [letter] Basmajian JV. **Arch Phys Med Rehabil** 1996 Dec;77(12):1326

Patient outcomes used by advanced practice psychiatric nurses to evaluate effectiveness of practice. Barrell LM, et al. **Arch Psychiatr Nurs** 1997 Aug;11(4):184–97 (13 ref.)

A summary of economic evaluations published in the field of rheumatology and related disciplines. Ferraz MB, et al. **Arthritis Rheum** 1997 Sep;40(9):1587–93

Towards a research strategy to support public health programs for behaviour change. Redman S. **Aust N Z J Public Health** 1996 Aug;20(4):352–8 (38 ref.)

Telephone administration of the SF-36 health survey: validation studies and population norms for adults in Queensland. Watson EK, et al. **Aust N Z J Public Health** 1996 Aug;20(4):359–63

Time to retire preventable death studies [editorial] Civil ID. **Aust N Z J Surg** 1997 Sep;67(9):587

Preventable death studies: an inappropriate tool for evaluating trauma systems. Kelly AM, et al. **Aust N Z J Surg** 1997 Sep;67(9):591–2 (25 ref.)

Reliability and validity of a new measure of patient satisfaction with out of hours primary medical care in the United Kingdom: development of a patient questionnaire. McKinley RK, et al. **BMJ** 1997 Jan 18;314(7075):193–8

Methodological challenges in evaluation of dissemination programs. Potvin L. **Can J Public Health** 1996 Nov–Dec; 87 Suppl 2:S79–83

Knowledge on collection and analysis of health information of state certified nurses from rural health centres, Masvingo Province. Mudzamiri WS, et al. **Cent Afr J Med** 1996 Jun; 42(6):161–2

Analyzing intensive care unit length of stay data: problems and possible solutions. Weissman C. **Crit Care Med** 1997 Sep;25(9):1594–600 (46 ref.)

Community-level determinants of contraceptive use in the Philippines: a structural analysis. DeGraff DS, et al. **Demography** 1997 Aug;34(3):385–98

Adequacy of prenatal care utilization [letter] Kotelchuck M. **Epidemiology** 1997 Sep;8(5):602–4

Population health research wins "reprieve" in Europe. Soskolne CL. **Epidemiology** 1996 Jul;7(4):451–2 (17 ref.)

Measuring man: some problems of method. Armstrong D. **Fam Pract** 1996 Dec;13 Suppl 1:S6–9

The application of anthropological methods in general practice research. Helman C. **Fam Pract** 1996 Dec;13 Suppl 1:S13–6

The method of Balint group work and its contribution to research in general practice. Hull SA. **Fam Pract** 1996 Dec; 13 Suppl 1:S10–2

Sampling for qualitative research. Marshall MN. **Fam Pract** 1996 Dec;13(6):522–5

Methods for quality assessment in general practice. Rethans JJ, et al. **Fam Pract** 1996 Oct;13(5):468–76 (64 ref.)

Qualitative methods in general practice research: experience from the Oceanpoint Study. Whittaker A. **Fam Pract** 1996 Jun;13(3):310–6

Selection of key community descriptors for community-orientated primary care. Zyzanski SJ, et al. **Fam Pract** 1996 Jun;13(3):280–8

An assessment of the use of costs and quality of life as outcomes in endoscopic research. Sahai AV, et al. **Gastrointest Endosc** 1997 Aug;46(2):113–8 (75 ref.)

How do we measure quality? [comment] Lohr KN. **Health Aff (Millwood)** 1997 May–Jun;16(3):22–5. Comment on: Health Aff (Millwood) 1997 May–Jun;16(3):7–21.

Six challenges in measuring the quality of health care [see comments] McGlynn EA. **Health Aff (Millwood)** 1997 May–Jun;16(3):7–21. Comment in: Health Aff (Millwood) 1997 May–Jun;16(3):22–5.

Use and abuse of the medical loss ratio to measure health plan performance. Robinson JC. **Health Aff (Millwood)** 1997 Jul–Aug;16(4):176–87

On the appropriateness of small-area analysis for cost containment [comment] Wennberg JE. **Health Aff (Millwood)** 1996 Winter;15(4):164–7. Comment on: Health Aff (Millwood) 1996 Winter;15(4):156–63.

Methods of measuring patient satisfaction in health care organizations. Ford RC, et al. **Health Care Manage Rev** 1997 Spring;22(2):74–89 (41 ref.)

An economic approach to clinical trial design and research priority-setting. Claxton K, et al. **Health Econ** 1996 Nov–Dec;5(6):513–24

Using willingness to pay to value close substitutes: carrier screening for cystic fibrosis revisited. Donaldson C, et al. **Health Econ** 1997 Mar–Apr;6(2):145–59

Economic evaluation of mental health care interventions. A review. Evers SM, et al. **Health Econ** 1997 Mar–Apr; 6(2):161–77 (161 ref.)

Economic evaluation and the shifting balance towards primary care: definitions, evidence and methodological issues. Godber E, et al. **Health Econ** 1997 May–Jun; 6(3):275–94 (45 ref.)

Biases in cost measurement for economic evaluation studies in health care. Jacobs P, et al. **Health Econ** 1996 Nov–Dec; 5(6):525–9 (18 ref.)

Outcome measurement in economic evaluation [see comments] Johannesson M, et al. **Health Econ** 1996 Jul–Aug;5(4):279–96 (73 ref.). Comment in: Health Econ 1997 Jan–Feb;6(1):91–3.

Valuation of health changes with the contingent valuation

method: a test of scope and question order effects. Kartman B, et al. **Health Econ** 1996 Nov–Dec;5(6):531–41

Statistical inference for cost–effectiveness ratios. Laska EM, et al. **Health Econ** 1997 May–Jun;6(3):229–42

Confidence intervals for cost–effectiveness ratios: a comparison of four methods. Polsky D, et al. **Health Econ** 1997 May–Jun;6(3):243–52

Confidence intervals for cost–effectiveness ratios: an application of Fieller's theorem. Willan AR, et al. **Health Econ** 1996 Jul–Aug;5(4):297–305

Nonsampling measurement error in administrative data: implications for economic evaluations. Wolff N, et al. **Health Econ** 1996 Nov–Dec;5(6):501–12

Delivering the goods, showing our stuff: the case for a constructivist paradigm for health promotion research and practice. Labonte R, et al. **Health Educ Q** 1996 Nov; 23(4):431–47

Reply to Hornbrook on doing policy–relevant evaluation research [comment] Feldman P, et al. **Health Serv Res** 1997 Apr;32(1):123–5. Comment on: Health Serv Res 1996 Oct;31(4):509–13.

Decision analysis: balancing quality and cost. Brasel KJ, et al. **Infect Control Hosp Epidemiol** 1997 Feb;18(2):146–8

Using a knowledge, attitudes and practices survey to supplement findings of an outbreak investigation: cholera prevention measures during the 1991 epidemic in Peru. Quick RE, et al. **Int J Epidemiol** 1996 Aug;25(4):872–8

People and places: contrasting perspectives on the association between social class and health. Kaplan GA. **Int J Health Serv** 1996;26(3):507–19

Measuring the quality of life of older persons: a model with implications for community and public health nursing. Raphael D, et al. **Int J Nurs Stud** 1997 Jun;34(3):231–9

Patients' perception of quality hospital care and hospital occupancy: are there biases associated with assessing quality care based on patients' perceptions? Boscarino JA. **Int J Qual Health Care** 1996 Oct;8(5):467–77

Feasibility of national benchmarking of patient satisfaction with Australian hospitals. Draper M, et al. **Int J Qual Health Care** 1996 Oct;8(5):457–66

Quality of care research in The Netherlands: the development and implementation of indicators and instruments. Klop R, et al. **Int J Qual Health Care** 1995 Dec;7(4):435–6

Focus groups. Powell RA, et al. **Int J Qual Health Care** 1996 Oct;8(5):499–504 (10 ref.)

Comparing results of concurrent and retrospective designs in a hospital utilization review. Santos–Eggimann B, et al. **Int J Qual Health Care** 1997 Apr;9(2):115–20

A cost–effectiveness and cost–utility analysis of radiosurgery vs. resection for single–brain metastases. Mehta M, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):445–54

Economic analysis alongside clinical trials. Bias in the assessment of economic outcomes. Ellwein LB, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):691–7

Costing methods in the Canadian literature on the economic evaluation of health care. A survey and assessment. Jacobs P, et al. **Int J Technol Assess Health Care** 1996 Fall; 12(4):721–34 (59 ref.)

Can resource use be extracted from randomized controlled trials to calculate costs? A review of smoking cessation interventions in general practice. Rigby K, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):714–20

How to understand the assessment of psychiatric technology. Westrin CG. **Int J Technol Assess Health Care** 1996 Fall; 12(4):547–53

Predictive validity of the Pra instrument among older recipients of managed care [see comments] Pacala JT, et al. **J Am Geriatr Soc** 1997 May;45(5):614–7. Comment in: J Am Geriatr Soc 1997 May;45(5):645–6.

Hispanic patients in an academic group practice: measurement issues and comparisons with non–Hispanics. Fein OT, et al. **J Assoc Acad Minor Phys** 1996;7(1):31–6

Fitting a routine health–care activity into a randomized trial: an experiment possible without informed consent? Winkens RA, et al. **J Clin Epidemiol** 1997 Apr;50(4):435–9

Cost–benefit analyses in the health–care literature: don't judge a study by its label. Zarnke KB, et al. **J Clin Epidemiol** 1997 Jul;50(7):813–22 (127 ref.)

The voluntary community health movement in India: a strengths, weaknesses, opportunities, and threats (SWOT) analysis. Sharma M, et al. **J Community Health** 1996 Dec; 21(6):453–64

Dental health services research utilizing comprehensive clinical databases and information technology [published erratum appears in J Dent Educ 1997 Jun;61(6):506] Hayden WJ. **J Dent Educ** 1997 Jan;61(1):47–55

Dentist–patient interactions in treatment decision–making: a qualitative study. Redford M, et al. **J Dent Educ** 1997 Jan; 61(1):16–21

Challenges of monitoring use of secondary care at local level: a study based in London, UK. Chenet L, et al. **J Epidemiol Community Health** 1996 Jun;50(3):359–65

Qualitative research in health care: II. A structured review and evaluation of studies. Boulton M, et al. **J Eval Clin Pract** 1996 Aug;2(3):171–9

Qualitative research in health care: I. The scope and validity of methods. Fitzpatrick R, et al. **J Eval Clin Pract** 1996 May;2(2):123–30

Some methodological issues in the development of quality of life measures for the evaluation of medical interventions. Kessler RC, et al. **J Eval Clin Pract** 1996 Aug;2(3):181–91

Central dimensions of clinical practice evaluation: efficiency, appropriateness and effectiveness—II. Miles A, et al. **J Eval Clin Pract** 1996 May;2(2):131–52 (153 ref.)

Assessing the effectiveness of health interventions for cost–effectiveness analysis. Panel on Cost–Effectiveness in Health and Medicine. Mandelblatt JS, et al. **J Gen Intern Med** 1997 Sep;12(9):551–8

Error budgets: a system to characterize error source in health care experimentation. Caruso BJ. **J Manipulative Physiol Ther** 1996 Jul–Aug;19(6):385–90 (10 ref.)

Preferences, needs and QALYs. Cohen J. **J Med Ethics** 1996 Oct;22(5):267–72 (35 ref.)

Three approaches to comparative data. Schroeder P. **J Nurs Care Qual** 1997 Feb;11(3):8

Use of the Nottingham Health Profile to test the validity of census variables to proxy the need for health care. Plant P, et al. **J Public Health Med** 1996 Sep;18(3):313–20

A critique of an evaluation of the impact of hospital bed closures in Winnipeg, Canada: lessons to be learned from evaluation research methods. Vingilis E, et al. **J Public Health Policy** 1996;17(4):409–25

But was the operation worth it? The limitations of quality of life and patient satisfaction research in health–care outcome assessment. Meredith P. **J Qual Clin Pract** 1996 Jun;16(2):75–85

Users' guides to the medical literature. XIII. How to use an article on economic analysis of clinical practice. A. Are the results of the study valid? Evidence–Based Medicine Working Group. Drummond MF, et al. **JAMA** 1997 May 21;277(19):1552–7

Use of standardized patients to assess between–physician variations in resource utilization. McLeod PJ, et al. **JAMA** 1997 Oct 8;278(14):1164–8

Users' guides to the medical literature. XIII. How to use an article on economic analysis of clinical practice. B. What are the results and will they help me in caring for my patients? Evidence–Based Medicine Working Group. O'Brien BJ, et al. **JAMA** 1997 Jun 11;277(22):1802–6

Conducting a randomized controlled trial of CQI and academic detailing to implement clinical guidelines [see comments] Horowitz CR, et al. **Jt Comm J Qual Improv** 1996 Nov;22(11):734–50. Comment in: Jt Comm J Qual Improv 1996 Nov;22(11):719–20.

How do we really know that we are improving quality? [editorial; comment] Kaluzny AD. **Jt Comm J Qual Improv** 1996 Nov;22(11):719–20. Comment on: Jt Comm J Qual Improv 1996 Nov;22(11):721–33. Comment on: Jt Comm J Qual Improv 1996 Nov;22(11):734–50.

Development of the multidimensional index of life quality. A quality of life measure for cardiovascular disease. Avis NE, et al. **Med Care** 1996 Nov;34(11):1102–20

A method of comparison for standardized rates of low–incidence events. Carriere KC, et al. **Med Care** 1997 Jan;35(1):57–69

A comparison of measures of prenatal care use. Farrow DC, et al. **Med Care** 1997 Mar;35(3):297–300

Health services research methods. A survey of two journals [editorial] Finkelstein B, et al. **Med Care** 1996 Oct; 34(10):987–8

Proprietary interests [editorial] Goldberg H, et al. **Med Care** 1996 Nov;34(11):1071

A new instrument to measure patient satisfaction with mammography. Validity, reliability, and discriminatory power. Loeken K, et al. **Med Care** 1997 Jul;35(7):731–41

Limitations of epidemiologically based needs assessment. The case of prostatectomy. Sanderson CF, et al. **Med Care** 1997 Jul;35(7):669–85

Assigning values to intermediate health states for cost–utility analysis: theory and practice. Cohen BJ. **Med Decis Making** 1996 Oct–Dec;16(4):376–85 (56 ref.)

Predicting in–hospital mortality for stroke patients: results differ across severity–measurement methods. Iezzoni LI, et al. **Med Decis Making** 1996 Oct–Dec;16(4):348–56

The methodology of cost–effectiveness analysis: avoiding common pitfalls. Elliott SL, et al. **Med J Aust** 1997 Jun 16;166(12):636–9

Retention issues involving drug–abusing women in treatment research. Lewis RA, et al. **NIDA Res Monogr** 1996; 166:110–22

Challenges in measuring patient outcomes. Strickland OL. **Nurs Clin North Am** 1997 Sep;32(3):495–512 (23 ref.)

Use of the Johnson–Neyman technique as an alternative to analysis of covariance. Dorsey SG, et al. **Nurs Res** 1996 Nov–Dec;45(6):363–6

Methodology for a randomised controlled trial of preschool vision screening. A new approach with the 'ALSPAC' project. Williams C, et al. **Ophthalmic Epidemiol** 1996 Jun; 3(2):63–76

What is qualitative research and what can it contribute to palliative care? Clark D. **Palliat Med** 1997 Mar;11(2):159–66

An economic analysis of developmental detection methods. Glascoe FP, et al. **Pediatrics** 1997 Jun;99(6):830–7

Assessment of preventive health care: design considerations. Hershey CO, et al. **Prev Med** 1997 Jan–Feb;26(1):59–67

Evolution and implications of P.A.R. for public health. George MA, et al. **Promot Educ** 1996 Dec;3(4):6–10

The challenges of participatory action research for health promotion [editorial] Green LW, et al. **Promot Educ** 1996 Dec;3(4):3–5 **(Eng, Fre)**

There's something different in what's happening to us: P.A.R. in a work setting. Ritchie JE. **Promot Educ** 1996 Dec; 3(4):16–20

A community P.A.R. Approach to HIV/AIDS prevention among sex workers. Tiglao TV, et al. **Promot Educ** 1996 Dec;3(4):25–8

Participatory research as social mobilization for health. Westphal MF, et al. **Promot Educ** 1996 Dec;3(4):21–4

How to involve hard to reach groups: a consumer–led project with lay carers of people with advanced HIV infection. Yates BD, et al. **Public Health** 1997 Sep;111(5):297–303

The validity of self–reports on chronic disease: characteristics of underreporters and implications for the planning of services. Gross R, et al. **Public Health Rev** 1996; 24(2):167–82

Health–related quality of life, patient outcome, and managed care: the road ahead. Fullerton S, et al. **Scand J Gastroenterol Suppl** 1996;221:39–41

Quality of life and health economics: where is the link? Jönsson B. **Scand J Gastroenterol Suppl** 1996;221:33–6

Quality of life and regulatory issues. Wiklund I. **Scand J Gastroenterol Suppl** 1996;221:37–8

Early detection and intervention in schizophrenia: research. McGlashan TH. **Schizophr Bull** 1996;22(2):327–45 (34 ref.)

Measuring the magnitude of socio–economic inequalities in health: an overview of available measures illustrated with two examples from Europe. Mackenbach JP, et al. **Soc Sci Med** 1997 Mar;44(6):757–71 (35 ref.)

Quality of life and social production functions: a framework for understanding health effects. Ormel J, et al. **Soc Sci Med** 1997 Oct;45(7):1051–63

Patient satisfaction and the elderly. Owens DJ, et al. **Soc Sci Med** 1996 Jun;42(11):1483–91 (26 ref.)

Further observations on comparison of immunization coverage by lot quality assurance sampling and 30 cluster sampling. Singh J, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):267–73

Toward congruence between theory and practice in small area analysis and local public health data. Kirby RS. **Stat Med** 1996 Sep 15–30;15(17–18):1859–66

"Action research" in health programmes. Razum O, et al. **World Health Forum** 1997;18(1):54–5

[Qualitative methods in empirical health research. III. The individual in–depth interview] Dehlholm–Lambertsen B, et al. **Nord Med** 1997 Mar;112(3):94–8 (Eng. Abstr.) **(Dan)**

[Qualitative methods in empirical health research. I. Scientific theory and application] Dehlholm–Lambertsen B, et al. **Nord Med** 1997 Jan;112(1):24–7 (Eng. Abstr.) **(Dan)**

[Qualitative methods in empirical health research. Focused group interview and participant observation] Maunsbach M, et al. **Nord Med** 1997 Apr;112(4):126–8 (15 ref.) **(Dan)**

[Is the NIDEP–Study suitable in the assessment and appraisal of nosocomial infections in Germany?] Bitter–Suermann D, et al. **Unfallchirurgie** 1996 Dec;22(6):281–7 **(Ger)**

[Referred morbidity and the utilization of health services in Brazilian urban areas: methodology] Cesar CL, et al. **Rev Saude Publica** 1996 Apr;30(2):153–60 (Eng. Abstr.) **(Por)**

ORGANIZATION & ADMINISTRATION

Practice–based research in psychiatry. Zarin DA, et al. **Am J Psychiatry** 1997 Sep;154(9):1199–208

A national strategy for research and development: lessons from England. Black N. **Annu Rev Public Health** 1997; 18:485–505 (48 ref.)

From measuring to improving public health practice. Turnock BJ, et al. **Annu Rev Public Health** 1997;18:261–82 (59 ref.)

Research and development in the NHS. Davies SC. **Br J Hosp Med** 1996 Dec 11–1997 Jan 14;56(11):606–8

State services research capacity: building a state infrastructure for mental health services research. Bevilacqua JJ, et al. **Community Ment Health J** 1996 Dec; 32(6):519–33

Evaluation strategy for Finland's suicide prevention project. Hakanen J, et al. **Crisis** 1996;17(4):167–74

Research in the war zones of Eritrea and northern Ethiopia. Silkin T, et al. **Disasters** 1997 Jun;21(2):166–76 (15 ref.)

Action research—a strategy for evaluation of medical interventions. Malterud K. **Fam Pract** 1995 Dec; 12(4):476–81 (25 ref.)

Socio–technical aspects of the use of health related personal information for management and research. Iversen KR, et al. **Int J Biomed Comput** 1996 Oct;43(1–2):83–91

Changing nursing practice through reflection on the Roper, Logan and Tierney model: the enhancement approach to action research. Bellman LM. **J Adv Nurs** 1996 Jul; 24(1):129–38

Rationing and evidence–based medicine [editorial] Hunter DJ. **J Eval Clin Pract** 1996 Feb;2(1):5–8 (12 ref.)

Recruitment of private practices for primary care research: experience in a preventive services clinical trial. McBride PE, et al. **J Fam Pract** 1996 Oct;43(4):389–95

Challenges and opportunities in establishing a Latino health research center in a majority academic institution. Giachello AL. **J Med Syst** 1996 Oct;20(5):351–76 (14 ref.)

The role of Latino/Hispanic communities in health services research: strategies for a meaningful partnership. Zambrana RE. **J Med Syst** 1996 Oct;20(5):317–28 (21 ref.)

Health services research [letter] Grewal N. **Lancet** 1997 Aug

16;350(9076):523
Primary health care research: what it is and what it is not [letter] Mooney MM. **Nurse Pract** 1996 Feb;21(2):8, 15
Marie Curie Cancer Care and palliative care research--a personal view [editorial] Ford G. **Palliat Med** 1996 Jul; 10(3):181-4
Legislative alert [editorial] Becker PT. **Res Nurs Health** 1997 Aug;20(4):279
Managed care and the AMCs [letter; comment] Ballard DJ. **Va Med Q** 1996 Winter;123(1):6-7. Comment on: Va Med Q 1995 Summer;122(3):168-73.
[Difficulties in quality of health evaluations in the context of an African hospital: experience of the Gynecology-Obstetrics Department of the National Hospital Center of Ouagadougou,Burkina Faso] Testa J, et al. **Med Trop (Mars)** 1996;56(2):151-5 (Eng. Abstr.) **(Fre)**
[Equity and exclusion from health care. From research to action, the experiences from one non-government organization] de La Rocque M. **Sante** 1996 Nov-Dec; 6(6):341-4 (Eng. Abstr.) **(Fre)**
[The search...for health economics research in Africa] Letouzé D, et al. **Sante** 1996 Nov-Dec;6(6):366-70 (10 ref.) **(Fre)**
[Health inequalities: metropolitan region and southeast and west metropolitan health services] Solís F, et al. **Rev Med Chil** 1995 Oct;123(10):1297-1305 (Eng. Abstr.) **(Spa)**

STANDARDS

Assessing the National HIV/AIDS Strategy evaluation. Kault D. **Aust N Z J Public Health** 1996 Aug;20(4):347-51
Clinical trials and economic evaluations? No, there are only evaluations. Dowie J. **Health Econ** 1997 Jan-Feb;6(1):87-9
Policy ... research that rings true [news] **Hosp Health Netw** 1996 Oct 5;70(19):13
Can quality be reduced to digits? [letter; comment] Cohen EA. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):41-2. Comment on: Hosp Pract (Off Ed) 1996 Jun 15;31(6):147-8.
A new national classification of health services based on clinical effectiveness [editorial] Milner P, et al. **J Public Health Med** 1997 Jun;19(2):127-8
Peer review and the research commons. A problem of success [editorial] Neuhauser D. **Med Care** 1997 Apr;35(4):301-2
Excluding nonusers: a source of bias in research on satisfaction with health services. Shmueli A. **Med Care** 1997 Aug;35(8):867-71
Quality assurance of HIV prevention counseling in a multi-center randomized controlled trial. Project RESPECT Study Group. Kamb ML, et al. **Public Health Rep** 1996;111 Suppl 1:99-107
Further observations on comparison of immunization coverage by lot quality assurance sampling and 30 cluster sampling. Singh J, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):267-73
[Goal-oriented projects of the Emilia Romagna region] Biocca M. **G Ital Med Lav** 1995 Jan-Nov;17(1-6):111-3 (Eng. Abstr.) **(Ita)**

STATISTICS & NUMERICAL DATA

Statistical methods for cost-effectiveness analyses [published erratum appears in Control Clin Trials 1997 Apr;18(2):185] Siegel C, et al. **Control Clin Trials** 1996 Oct;17(5):387-406
Finding the medically underserved: a need to revise the federal definition [editorial] Wright RA, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):296-307
The quality of vital perinatal statistics data, with special reference to prenatal care [comment] Kirby RS. **Paediatr Perinat Epidemiol** 1997 Jan;11(1):122-8. Comment on: Paediatr Perinat Epidemiol 1997 Jan;11(1):105-21.
Evaluation of prenatal care information on birth certificates [see comments] McDermott J, et al. **Paediatr Perinat Epidemiol** 1997 Jan;11(1):105-21. Comment in: Paediatr Perinat Epidemiol 1997 Jan;11(1):122-8.
Bayesian analysis for a single 2 x 2 table. Hashemi L, et al. **Stat Med** 1997 Jun 30;16(12):1311-28
Power determination for geographically clustered data using generalized estimating equations. Hendricks SA, et al. **Stat Med** 1996 Sep 15-30;15(17-18):1951-60

TRENDS

Applied scientific inquiry: an answer to managed care's challenge? Gutman SA, et al. **Am J Occup Ther** 1997 Sep; 51(8):704-9
Health care policy, psychotherapy research, and the future of psychotherapy. Barlow DH. **Am Psychol** 1996 Oct; 51(10):1050-8
Psychotherapy practice and research. Repairing a strained alliance. Goldfried MR, et al. **Am Psychol** 1996 Oct; 51(10):1007-16
The need for research that is designed to support decisions in the delivery of mental health services [comment] Newman FL, et al. **Am Psychol** 1996 Oct;51(10):1040-9. Comment on: Am Psychol 1995 Dec;50(12):965-74.
Health services research [see comments] Saag KG. **Curr Opin Rheumatol** 1997 Mar;9(2):118-25 (50 ref.). Comment in: Curr Opin Rheumatol 1997 Mar;9(2):87-9.
Health services research: an expanding field of inquiry. Field MJ, et al. **J Eval Clin Pract** 1995 Sep;1(1):61-5 (4 ref.)
The effects of research, managed care and professional relations on the chiropractic profession. Kats DJ. **J Manipulative Physiol Ther** 1995 Nov-Dec;18(9):628-30
The concept of equity in health services research. Krasnik A. **Scand J Soc Med** 1996 Mar;24(1):2-7
SMA Lecture. Impact of a free market system on medicine in Singapore. Singapore Medical Association. Toh C. **Singapore Med J** 1997 Jan;38(1):7-10
[Public health (editorial)] Atteslander P, et al. **Gesundheitswesen** 1997 Apr;59 Suppl 1:3-4 **(Ger)**
[Why public health research?] Fülgraff G. **Gesundheitswesen** 1996 Sep;58 Suppl 2:105-9 (Eng. Abstr.) **(Ger)**
[Significance of regional public health research (editorial)] Gostomzyk JG. **Gesundheitswesen** 1997 Apr;59 Suppl 1:1-2 **(Ger)**
[Social medicine and health system research, status and perspectives] Schwartz FW. **Gesundheitswesen** 1996 Oct;58 Suppl 3:180-2 **(Ger)**
[Prevention, standards and future developments in medial specialties--research] Vosteen KH. **Z Arztl Fortbild (Jena)** 1996 Jun;90(4):325-38 **(Ger)**
[Health and illness in aging. Deficits and perspectives in health care research] Görres S. **Z Gerontol Geriatr** 1996 Sep-Oct;29(5):375-81 (Eng. Abstr.) **(Ger)**

UTILIZATION

Cognition and technology in health education research. Patel VL. **Can J Public Health** 1996 Nov-Dec;87 Suppl 2:S63-7

HEALTH SERVICES, WOMEN'S see **WOMEN'S HEALTH SERVICES**

HEALTH STATUS

Welfare consequences of injuries due to traffic accidents. Haukeland JV. **Accid Anal Prev** 1996 Jan;28(1):63-72
Medical conditions and the severity of commercial motor vehicle drivers' road accidents. Laberge-Nadeau C, et al. **Accid Anal Prev** 1996 Jan;28(1):43-51
A survey of the ASA physical status classification: significant variation in allocation among Finnish anaesthesiologists. Ranta S, et al. **Acta Anaesthesiol Scand** 1997 May; 41(5):629-32
Life situation, self reported health and coping ability of 35-year old twins and controls--a follow-up of a longitudinal Swedish twin study at adolescence. Lange AL, et al. **Acta Genet Med Gemellol (Roma)** 1996;45(4):405-16
Visual impairment and general health among Danish cataract patients. Results from the Danish Cataract Surgery Outcomes Study. I. Nørregaard JC, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):598-603
Young adults with alpha 1-antitrypsin deficiency identified neonatally: their health, knowledge about and adaptation to the high-risk condition. Sveger T, et al. **Acta Paediatr** 1997 Jan;86(1):37-40
Psychomotor development at 10 months as related to neonatal health status: the Stockholm Neonatal Project. Gerner EM, et al. **Acta Paediatr Suppl** 1997 Apr;419:37-43
Achievements and difficulties in maintaining the tuberculosis-free status of Hungarian cattle herds. Körmendy B. **Acta Vet Hung** 1995;43(4):377-84
Depression, smoking, activity level, and health status: pretreatment predictors of attrition in obesity treatment. Clark MM, et al. **Addict Behav** 1996 Jul-Aug;21(4):509-13
Health status at entry to methadone maintenance treatment using the SF-36 health survey questionnaire. Ryan CF, et al. **Addiction** 1996 Jan;91(1):39-45
The source, accuracy, and impact of initial sexuality information on lifetime wellness. Ansuini CG, et al. **Adolescence** 1996 Summer;31(122):283-9
Medical monitoring in long-term space missions. Grigoriev AI, et al. **Adv Space Biol Med** 1997;6:167-91 (36 ref.)
Evaluation of treatment for congestive heart failure in patients aged 60 years and older using generic measures of health status (SF-36 and COOP charts). Jenkinson C, et al. **Age Ageing** 1997 Jan;26(1):7-13
Health status and disability among elderly people in three UK districts. Lyons RA, et al. **Age Ageing** 1997 May; 26(3):203-9
Prospective value of self-report and performance-based tests of functional status for 18-month outcomes in elderly patients. Nikolaus T, et al. **Aging (Milano)** 1996 Aug; 8(4):271-6
Health status of former elite athletes. The Finnish experience. Sarna S, et al. **Aging (Milano)** 1997 Feb-Apr;9(1-2):35-41
Predictors of five-year functional ability in a longitudinal survey of men and women aged 75 to 80. The 1914-population in Glostrup, Denmark. Schroll M, et al. **Aging (Milano)** 1997 Feb-Apr;9(1-2):143-52
Muscle function of women aged 65-89 years meeting two sets of health criteria. Skelton DA, et al. **Aging (Milano)** 1997 Feb-Apr;9(1-2):106-11
Prediction of the healthcare needs of persons with HIV/AIDS from preliminary health assessment information. Berk RA, et al. **AIDS Care** 1997 Apr; 9(2):143-60
HIV diagnosis rituals and identity narratives. Roth NL, et al. **AIDS Care** 1997 Apr;9(2):161-79
Clinical status of patients removed from a transplant waiting list rivals that of transplant recipients at significant cost savings. Levine TB, et al. **Am Heart J** 1996 Dec; 132(6):1189-94
Dietary fat and health [letter; comment] Wood R. **Am J Clin Nutr** 1997 Aug;66(2):447-9. Comment on: Am J Clin Nutr 1997 Jan;65(1):41-5.
Measuring health status in patients with skeletal metastases treated by surgery. Clohisy DR, et al. **Am J Clin Oncol** 1997 Aug;20(4):424-8
Re: "Water, waste, and well-being: a multicountry study" [letter; comment] Cairncross S, et al. **Am J Epidemiol** 1997 Aug 15;146(4):359-61. Comment on: Am J Epidemiol 1996 Mar 15;143(6):608-23.
Cardiovascular risk factors in children from the Belgian province of Luxembourg. The Belgian Luxembourg Child Study. Guillaume M, et al. **Am J Epidemiol** 1996 Nov 1; 144(9):867-80
Incidence of functional decline and improvement in a community-dwelling, very elderly population. Hébert R, et al. **Am J Epidemiol** 1997 May 15;145(10):935-44
Re: "Prior to use of estrogen replacement therapy, are users healthier than nonusers?" [letter; comment] Willett WC. **Am J Epidemiol** 1997 Aug 1;146(3):283-4. Comment on: Am J Epidemiol 1996 May 15;143(10):971-8.
Modeling the cross-sectional relationships between religion, physical health, social support, and depressive symptoms. Koenig HG, et al. **Am J Geriatr Psychiatry** 1997 Spring; 5(2):131-44
Assessing health and quality of life outcomes in dialysis: a report on an Institute of Medicine workshop. Rettig RA, et al. **Am J Kidney Dis** 1997 Jul;30(1):140-55 (85 ref.)
Functional status in patients with chronic fatigue syndrome, other fatiguing illnesses, and healthy individuals. Buchwald D, et al. **Am J Med** 1996 Oct;101(4):364-70
Health status in patients with chronic fatigue syndrome and in general population and disease comparison groups. Komaroff AL, et al. **Am J Med** 1996 Sep;101(3):281-90
Screening in special populations: a "case study" of recent Vietnamese immigrants. Nelson KR, et al. **Am J Med** 1997 May;102(5):435-40
Social economics of childhood glucocorticoid stress response and health. Flinn MV, et al. **Am J Phys Anthropol** 1997 Jan;102(1):33-53
Transfers from a hospital-based rehabilitation unit caused by medical complications. Bonner FJ Jr, et al. **Am J Phys Med Rehabil** 1996 Sep-Oct;75(5):384-6
Psychosocial factors and health status in women with rheumatoid arthritis: predictive models. Dwyer KA. **Am J Prev Med** 1997 Jan-Feb;13(1):66-72
Physical health and negative life events [letter; comment] Dinnen AH. **Am J Psychiatry** 1997 Jan;154(1):138. Comment on: Am J Psychiatry 1996 Jan;153(1):21-6.
Linking combat and physical health: the legacy of World War II in men's lives. Elder GH Jr, et al. **Am J Psychiatry** 1997 Mar;154(3):330-6
Changes in perceived health status of depressed elderly patients treated until remission. Miller MD, et al. **Am J Psychiatry** 1996 Oct;153(10):1350-2
Traumatic grief as a risk factor for mental and physical morbidity. Prigerson HG, et al. **Am J Psychiatry** 1997 May; 154(5):616-23
Burmese political dissidents in Thailand: trauma and survival among young adults in exile. Allden K, et al. **Am J Public Health** 1996 Nov;86(11):1561-9
The relationship of patient reading ability to self-reported health and use of health services. Baker DW, et al. **Am J Public Health** 1997 Jun;87(6):1027-30
Annotation: preventive screening for health risks among adolescents [comment] Barnett HL. **Am J Public Health** 1996 Dec;86(12):1701. Comment on: Am J Public Health 1996 Dec;86(12):1767-72.
The impact of the economic crisis and the US embargo on health in Cuba. Garfield R, et al. **Am J Public Health** 1997 Jan;87(1):15-20
The health status of elderly persons in the last year of life: a comparison of deaths by suicide, injury, and natural causes. Grabbe L, et al. **Am J Public Health** 1997 Mar; 87(3):434-7
Race, ethnicity, and health outcomes--unraveling the mediating role of socioeconomic status [comment] Guralnik JM, et al. **Am J Public Health** 1997 May;87(5):728-30. Comment on: Am J Public Health 1997 May;87(5):805-10.
Hospital use and health status of women during the 5 years following the birth of a premature, low-birthweight infant. Haas JS, et al. **Am J Public Health** 1997 Jul;87(7):1151-5
The impact of socioeconomic status on health functioning as assessed by the SF-36 questionnaire: the Whitehall II Study [see comments] Hemingway H, et al. **Am J Public Health** 1997 Sep;87(9):1484-90. Comment in: Am J Public Health 1997 Sep;87(9):1411-3.
Whither studies on the socioeconomic foundations of population health? [editorial; comment] Kaplan GA, et al. **Am J Public Health** 1997 Sep;87(9):1409-11 (18 ref.). Comment on: Am J Public Health 1997 Sep;87(9):1476-83. Comment on: Am J Public Health 1997 Sep;87(9):1491-8. Comment on: Am J Public Health 1997 Sep;87(9):1499-503. Comment on: Am J Public Health 1997 Sep;87(9):1504-6.
Adaptive responses among Dutch elderly: the impact of eight chronic medical conditions on health-related quality of life. Kempen GI, et al. **Am J Public Health** 1997 Jan;87(1):38-44
Reproductive history, socioeconomic status, and self-reported health status of women aged 50 years or older. Kington R, et al. **Am J Public Health** 1997 Jan; 87(1):33-7

The influence of socioeconomic position on health--and vice versa [letter] Morris NM. **Am J Public Health** 1996 Nov; 86(11):1649–50

The body politic and the power of socioeconomic status [editorial; comment] Moss N. **Am J Public Health** 1997 Sep;87(9):1411–3 (18 ref.). Comment on: Am J Public Health 1997 Sep;87(9):1484–90.

The uses of psychosocial epidemiology in promoting refugee health [editorial] Neugebauer R. **Am J Public Health** 1997 May;87(5):726–8

Social differences in health: life–cycle effects between ages 23 and 33 in the 1958 British birth cohort [see comments] Power C, et al. **Am J Public Health** 1997 Sep; 87(9):1499–503. Comment in: Am J Public Health 1997 Sep;87(9):1409–11.

Cultural orientation: an individual– or group–level variable? [letter; comment] Rhoads GG. **Am J Public Health** 1997 Feb;87(2):301–2; discussion 302. Comment on: Am J Public Health 1996 Mar;86(3):303–5.

Some correlates of self–rated health for Australian women. Shadbolt B. **Am J Public Health** 1997 Jun;87(6):951–6

Self–rated health among Hispanic vs non–Hispanic white adults: the San Luis Valley Health and Aging Study. Shetterly SM, et al. **Am J Public Health** 1996 Dec; 86(12):1798–801

Acute effects of summer air pollution on respiratory health of asthmatic children. Gielen MH, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2105–8

Air pollution and respiratory health among children with asthmatic or cough symptoms. Timonen KL, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):546–52

The use of a generic, patient–based health assessment (SF–36) for evaluation of patients with anterior cruciate ligament injuries. Shapiro ET, et al. **Am J Sports Med** 1996 Mar–Apr;24(2):196–200

Controlling ourselves, controlling our world. Psychology's role in understanding positive and negative consequences of seeking and gaining control. Shapiro DH Jr, et al. **Am Psychol** 1996 Dec;51(12):1213–30 (330 ref.)

Measuring health–related quality of life in venous disease: practical and scientific considerations. Lamping DL. **Angiology** 1997 Jan;48(1):51–7

Prognostic potential of cytokines, nitrates, and APACHE II score in sepsis. Bencosme A, et al. **Ann Clin Lab Sci** 1996 Sep–Oct;26(5):426–32

What are the underlying sources of racial differences in health? [editorial; comment] Moss N. **Ann Epidemiol** 1997 Jul;7(5):320–1. Comment on: Ann Epidemiol 1997 Jul;7(5):322–3.

Changing paradigms and their effect on American Indian and Alaska Native health [editorial; comment] Rhoades ER. **Ann Epidemiol** 1997 May;7(4):227–8. Comment on: Ann Epidemiol 1997 May;7(4):229–40.

Social ties and health: the benefits of social integration. Seeman TE. **Ann Epidemiol** 1996 Sep;6(5):442–51 (69 ref.)

Race and health: basic questions, emerging directions [see comments] Williams DR. **Ann Epidemiol** 1997 Jul; 7(5):322–33 (120 ref.). Comment in: Ann Epidemiol 1997 Jul;7(5):320–1.

Secular trend in age at menarche in Marrakesh (Morocco). Loukid M, et al. **Ann Hum Biol** 1996 Jul–Aug;23(4):333–5

Relation between symptoms of depression and health status outcomes in acutely ill hospitalized older persons [see comments] Covinsky KE, et al. **Ann Intern Med** 1997 Mar 15;126(6):417–25. Comment in: Ann Intern Med 1997 Mar 15;126(6):463–4.

Health and functional status of long–term survivors of bone marrow transplantation. EBMT Working Party on Late Effects and EULEP Study Group on Late Effects. European Group for Blood and Marrow Transplantation. Duell T, et al. **Ann Intern Med** 1997 Feb 1;126(3):184–92

Validation of preferences for life–sustaining treatment: implications for advance care planning. Patrick DL, et al. **Ann Intern Med** 1997 Oct 1;127(7):509–17

Alcohol and overall health outcomes. Poikolainen K. **Ann Med** 1996 Oct;28(5):381–4 (30 ref.)

The effects of poverty on child health and development. Aber JL, et al. **Annu Rev Public Health** 1997;18:463–83 (94 ref.)

Searching for the biological pathways between stress and health. Kelly S, et al. **Annu Rev Public Health** 1997; 18:437–62 (177 ref.)

Social support and physical health in the rural elderly. Johnson JE. **Appl Nurs Res** 1996 May;9(2):61–6

Respiratory status and allergy nine to 10 years after acute bronchiolitis. Noble V, et al. **Arch Dis Child** 1997 Apr; 76(4):315–9

Poverty and the health of children and adolescents. Reading R. **Arch Dis Child** 1997 May;76(5):463–7 (108 ref.)

Associations between health and air pollution in time–series analyses. Goldsmith JR, et al. **Arch Environ Health** 1996 Sep–Oct;51(5):359–67

Ethical questions on the relationship between health damage and environmental causes [editorial] Somosi G. **Arch Environ Health** 1996 Nov–Dec;51(6):413–4

Self–esteem and health. Is the relationship real? [editorial; comment] Chapman RW. **Arch Fam Med** 1997 Jan–Feb; 6(1):71. Comment on: Arch Fam Med 1997 Jan–Feb;6(1):67–70.

Health professional shortage areas, health status, and reform [letter] Good RG. **Arch Fam Med** 1996 Apr;5(4):196–7

The relationship of self–esteem to the health–related behaviors of the patients of a primary care clinic [see comments] Hurst DF, et al. **Arch Fam Med** 1997 Jan–Feb; 6(1):67–70. Comment in: Arch Fam Med 1997 Jan–Feb;6(1):71.

Comorbid anxiety disorder and the functioning and well–being of chronically ill patients of general medical providers. Sherbourne CD, et al. **Arch Gen Psychiatry** 1996 Oct;53(10):889–95

Psychosocial correlates of job strain in a sample of working women. Williams RB, et al. **Arch Gen Psychiatry** 1997 Jun; 54(6):543–8

Influence of glaucomatous visual field loss on health–related quality of life. Gutierrez P, et al. **Arch Ophthalmol** 1997 Jun;115(6):777–84

Shelter–based homeless youth. Health and access to care. Ensign J, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):817–23

Relationship between cigarette smoking and health risk and problem behaviors among US adolescents. Escobedo LG, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):66–71

Influences of gender and social class on adolescents' perceptions of health. Goodman E, et al. **Arch Pediatr Adolesc Med** 1997 Sep;151(9): 99–904

Health status of well vs ill adolescents. Starfield B, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1249–56

Substance use, mental health, and health in Alaska: emphasis on Alaska Native peoples. Brems C. **Arctic Med Res** 1996 Jul;55(3):135–47

Radioecology and and the health of the indigenous inhabitants in Chukotka. Doudarev AA, et al. **Arctic Med Res** 1996;55 Suppl 1:32–4 (1 ref.)

Toward versatile international co–operation in circumpolar health [editorial] Hassi J. **Arctic Med Res** 1996 Jul;55(3):106

The AIMS2–SF: a short form of the Arthritis Impact Measurement Scales 2. French Quality of Life in Rheumatology Group. Guillemin F, et al. **Arthritis Rheum** 1997 Jul;40(7):1267–74

Health status and disease severity in fibromyalgia: results of a six–center longitudinal study [see comments] Wolfe F, et al. **Arthritis Rheum** 1997 Sep;40(9):1571–9. Comment in: Arthritis Rheum 1997 Sep;40(9):1553–5.

Health status, life satisfaction and health practices: a study of Pacific Asian and Native Hawaiian elderly cohorts. Koseki LK, et al. **Asia Pac J Public Health** 1995; 8(2):95–101

The health of Filipinas in the Hunter region. Brown WJ, et al. **Aust N Z J Public Health** 1997 Apr;21(2):214–6

Aboriginal self–determination, education and health: towards a radical change in attitudes to education. Tsey K. **Aust N Z J Public Health** 1997 Feb;21(1):77–83

Epidemiological studies of pig diseases: 1. Use of French protocols for risk factor assessment to predict the health status of Australian herds. Buddle JR, et al. **Aust Vet J** 1997 Apr;75(4):274–81

Human subject research at Armstrong Laboratory, 1973–93: medical and musculoskeletal disqualifications. Morris CE, et al. **Aviat Space Environ Med** 1997 May;68(5):378–83

Physical and emotional health of Gulf War veteran women. Pierce PF. **Aviat Space Environ Med** 1997 Apr;68(4):317–21

Passenger safety, health, and comfort: a review. Rayman RB. **Aviat Space Environ Med** 1997 May;68(5):432–40 (43 ref.)

Travellers are the unhealthiest people in Britain [news] Bunce C. **BMJ** 1996 Oct 19;313(7063):963

The rationing debate: Maximising the health of the whole community. The case for [see comments] Culyer AJ. **BMJ** 1997 Mar 1;314(7081):667–9. Comment in: BMJ 1997 Mar 1;314(7081):669–72. Comment in: BMJ 1997 Jun 28;314(7098):1901.

Segregated health statistics perpetuate racial stereotypes [letter; comment] Ellison GT, et al. **BMJ** 1997 May 17; 314(7092):1485. Comment on: BMJ 1997 Jan 18;314(7075):220.

The rationing debate: Maximising the health of the whole community. The case against: what the principal objective of the NHS should really be [comment] [see comments] Harris J. **BMJ** 1997 Mar 1;314(7081):669–72. Comment on: BMJ 1997 Mar 1;314(7081):667–9. Comment in: BMJ 1997 Jun 28;314(7098):1901.

Britain was healthier than Germany in 1914 [letter] Kealey T. **BMJ** 1996 Dec 14;313(7071):1551

Retirement on grounds of ill health: cross sectional survey in six organisations in United Kingdom. Poole CJ. **BMJ** 1997 Mar 29;314(7085):929–32

Commentary: understanding it all--health, meta–theories, and mortality trends [see comments] Smith GD, et al. **BMJ** 1996 Dec 21–28;313(7072):1584–5. Comment in: BMJ 1997 May 3;314(7090):1347.

Britain has become less equal in death [news] Wise J. **BMJ** 1997 Aug 16;315(7105):384

Sweden is healthiest place to live in world [news] Wise J. **BMJ** 1997 Apr 19;314(7088):1146

School behaviour and health status after central nervous system tumours in childhood. Glaser AW, et al. **Br J Cancer** 1997;76(5):643–50

Physical and psychosocial outcomes in cancer patients: a comparison of different age groups. Greimel ER, et al. **Br J Cancer** 1997;76(2):251–5

Women's health in midlife: the influence of the menopause, social factors and health in earlier life. Kuh DL, et al. **Br J Obstet Gynaecol** 1997 Aug;104(8):923–33

Physical and psychiatric comorbidity in general practice. Kisely SR, et al. **Br J Psychiatry** 1996 Aug;169(2):236–42

Guidance on ill health retirement. Poole CJ. **Br J Rheumatol** 1997 May;36(5):573–6 (18 ref.)

Use of the short form 36 (SF36) for health status measurement in rheumatoid arthritis. Talamo J, et al. **Br J Rheumatol** 1997 Apr;36(4):463–9

Illusions of well–being and the repressive coping style. Myers LB, et al. **Br J Soc Psychol** 1996 Dec;35 (Pt 4):443–57

Reasons for loss of fitness of dockers to perform physically heavy loading operations. Waśkiewicz J. **Bull Inst Marit Trop Med Gdynia** 1996;47(1–4):19–24

Health research in the developing world: a gastroenterological view from Bangladesh. Hamilton JR. **Can J Gastroenterol** 1997 Jan–Feb;11(1):94–8 (25 ref.)

The CIAR vision of the determinants of health: a critique. Critical Social Science and Health Group. Coburn D, et al. **Can J Public Health** 1996 Sep–Oct;87(5):308–10

Correlates of self–rated health in persons aged 85 and over: results from the Canadian Study of Health and Aging. Ebly EM, et al. **Can J Public Health** 1996 Jan–Feb;87(1):28–31

Physical health complaints and the use of outpatient mental health services among those with a mental disorder. Rhodes AE, et al. **Can J Public Health** 1997 Jan–Feb;88(1):67–8

The 1993 General Social Survey II: alcohol problems in Canada. Single EW, et al. **Can J Public Health** 1995 Nov–Dec;86(6):402–7

Single mothers in Ontario: sociodemographic, physical and mental health characteristics [see comments] Lipman EL, et al. **Can Med Assoc J** 1997 Mar 1;156(5):639–45. Comment in: Can Med Assoc J 1997 Mar 1;156(5):661–3.

Aboriginal health [see comments] MacMillan HL, et al. **Can Med Assoc J** 1996 Dec 1;155(11):1569–78 (85 ref.). Comment in: Can Med Assoc J 1996 Dec 1;155(11):1581–3.

Health of our elders. Perera B. **Ceylon Med J** 1997 Jun; 42(2):91–3

The reported health and functioning of children maltreated while in family foster care. Benedict MI, et al. **Child Abuse Negl** 1996 Jul;20(7):561–71

Effect of radiofrequency catheter ablation on health–related quality of life and activities of daily living in patients with recurrent arrhythmias [see comments] Bubien RS, et al. **Circulation** 1996 Oct 1;94(7):1585–91. Comment in: Circulation 1996 Oct 1;94(7):1491–3.

Surgeon General's report on physical activity and health is hailed as a historic step toward a healthier nation [news] Johnson JM, et al. **Circulation** 1996 Nov 1;94(9):2045

Conference on Socioeconomic Status and Cardiovascular Health and disease [news] Lenfant C. **Circulation** 1996 Nov 1;94(9):2041–4

Validation of the Italian version of the Stanford Childhood Health Assessment Questionnaire for measuring functional status in children with chronic arthritis. Fantini F, et al. **Clin Exp Rheumatol** 1995 Nov–Dec;13(6):785–91

Exercise to improve physiologic and functional performance in old age. Chandler JM, et al. **Clin Geriatr Med** 1996 Nov; 12(4):761–84 (62 ref.)

Readying a US measure of health status, the SF–36, for use in Canada. Dauphinee SW, et al. **Clin Invest Med** 1997 Aug;20(4):224–38

Evaluating quality–of–life and health status instruments: development of scientific review criteria. Lohr KN, et al. **Clin Ther** 1996 Sep–Oct;18(5):979–92

The health of prisoners. Proceedings of a symposium. 3 March 1993. **Clio Med** 1995;34:1–184

The US attack on Cuba's health [editorial; comment] Kirkpatrick AF. **CMAJ** 1997 Aug 1;157(3):281–4. Comment on: CMAJ 1997 Aug 1;157(3):291–3.

A real health threat--debt. Bentivegna JF. **Conn Med** 1997 Mar;61(3):180

The preparticipation athletic examination of adolescents: a missed opportunity? Cavanaugh RM Jr, et al. **Curr Probl Pediatr** 1997 Mar;27(3):109–20

Marital status and mortality: the role of health. Lillard LA, et al. **Demography** 1996 Aug;33(3):313–27

Demographic and economic correlates of health in old age. Smith JP, et al. **Demography** 1997 Feb;34(1):159–70

Health–related quality–of–life results from multinational clinical trials of insulin lispro. Assessing benefits of a new diabetes therapy. Kotsanos JG, et al. **Diabetes Care** 1997 Jun;20(6):948–58

Diabetes self–management. Self–reported recommendations and patterns in a large population. Ruggiero L, et al. **Diabetes Care** 1997 Apr;20(4):568–76

Membership of the University of the Third Age (U3A) and perceived well–being. Mitchell RA, et al. **Disabil Rehabil** 1997 Jun;19(6):244–8

Self–reported health status and access to health services in a community sample with Parkinson's disease. Peto V, et al. **Disabil Rehabil** 1997 Mar;19(3):97–103

Effects of chronic cocaine use on physical health: a prospective study in a general population sample. Chen K, et al. **Drug Alcohol Depend** 1996 Dec 2;43(1–2):23–37

Global warming and health: a review. Amofah GK. **East Afr Med J** 1996 Aug;73(8):560–2 (30 ref.)

Inequities in health and the region of the Americas. **Epidemiol Bull** 1996 Sep;17(3):1–9

Physical activity, health–related fitness, and health experience in adults with childhood–onset epilepsy: a controlled study. Jalava M, et al. **Epilepsia** 1997 Apr; 38(4):424–9

Reproductive activity and offspring health of young adults with childhood–onset epilepsy: a controlled study. Jalava M, et al. **Epilepsia** 1997 May;38(5):532–40

Outcome assessment in epilepsy: comparative responsiveness

of quality of life and psychosocial instruments. Wiebe S, et al. **Epilepsia** 1997 Apr;38(4):430–8

Racism and the physical and mental health status of African Americans: a thirteen year national panel study. Jackson JS, et al. **Ethn Dis** 1996 Winter–Spring;6(1–2):132–47

Health status of diabetic persons in an Asian–Pacific population: evidence from Guam. Pinhey TK, et al. **Ethn Dis** 1997 Winter;7(1):65–71

The clinical impact of coronary artery disease; are subjective measures of health status more relevant than laboratory–assessed exercise tolerance? [comment] Cowley AJ. **Eur Heart J** 1995 Nov;16(11):1461–2. Comment on: Eur Heart J 1995 Nov;16(11):1561–5.

Comparison of Nottingham Health Profile (NHP) scores with exercise duration and measures of ischaemia during treadmill exercise testing in patients with coronary artery disease [see comments] Skinner JS, et al. **Eur Heart J** 1995 Nov;16(11):1561–5. Comment in: Eur Heart J 1995 Nov;16(11):1461–2.

Health–related quality of life of adults surviving malignancies in childhood [see comments] Apajasalo M, et al. **Eur J Cancer** 1996 Jul;32A(8):1354–8. Comment in: Eur J Cancer 1996 Jul;32A(8):1281–2. Comment in: Eur J Cancer 1997 Mar;33(3):506–7.

Health–related quality of life, cancer and health care [editorial; comment] Jenney ME. **Eur J Cancer** 1996 Jul; 32A(8):1281–2. Comment on: Eur J Cancer 1996 Jul;32A(8):1354–8.

Today's problems of Chernobyl. Baryakhtar VG. **Eur J Cancer Prev** 1996 Oct;5(5):385–6

An epidemiological study of endometrial cancer, nutrition and health. La Vecchia C, et al. **Eur J Cancer Prev** 1997 Apr;6(2):171–4

Health and physical performance of elderly Europeans. SENECA Investigators. Schroll M, et al. **Eur J Clin Nutr** 1996 Jul;50 Suppl 2:S105–11

Subjective symptoms and quality of life in healthy subjects during a phase I study. Schüppel R, et al. **Eur J Clin Pharmacol** 1996;51(3–4):215–9

Characteristics of non–participants and reasons for non–participation in a population survey in Kin–Hu, Kinmen. Chou P, et al. **Eur J Epidemiol** 1997 Feb; 13(2):195–200

The Jerusalem seventy year olds longitudinal study. II: Background results from the initial home interview. Cohen A, et al. **Eur J Epidemiol** 1995 Dec;11(6):685–92

Is maternal asthma a risk factor for low birth weight? Results of an epidemiologic survey. Corchia C, et al. **Eur J Epidemiol** 1995 Dec;11(6):627–31

Impacts of components of the metabolic syndrome on health status and survival in an aged population. Lindberg O, et al. **Eur J Epidemiol** 1997 Jun;13(4):429–34

Mental health and number of illnesses are predictors of nutritional risk in elderly persons. Nickols–Richardson SM, et al. **Exp Aging Res** 1996 Apr–Jun;22(2):141–54

The metabolic syndrome: from inherited survival trait to a health care problem. Colagiuri S, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:54–60 (83 ref.)

Variations in functional status among different groups of elderly people. Wollstadt LJ, et al. **Fam Med** 1997 Jun; 29(6):394–9

Somatic pathology in elderly demented patients. Annoni G, et al. **Funct Neurol** 1997 May–Aug;12(3–4):205–6

Gastrointestinal diagnosis, abuse history, and effects on health status [letter; comment] Drossman DA, et al. **Gastroenterology** 1996 Oct;111(4):1159–61. Comment on: Gastroenterology 1996 Apr;110(4):1301–4.

Is Bob Dole too old to be President [editorial] Butler RN. **Geriatrics** 1996 Sep;51(9):8–9

Measuring and monitoring general health status in elderly persons: practical and methodological issues in using the SF–36 Health Survey. McHorney CA. **Gerontologist** 1996 Oct;36(5):571–83 (74 ref.)

Burden and well–being: the same coin or related currency. Stuckey JC, et al. **Gerontologist** 1996 Oct;36(5):686–93

Physical status and expression of HPV genes in cervical cancers. Park JS, et al. **Gynecol Oncol** 1997 Apr;65(1):121–9

Aboriginal physician use in Canada: location, orientation and identity. Newbold KB. **Health Econ** 1997 Mar–Apr; 6(2):197–207

Healthful radiation. Agard ET. **Health Phys** 1997 Jan; 72(1):97–9

Elevated physical health risk among gay men who conceal their homosexual identity. Cole SW, et al. **Health Psychol** 1996 Jul;15(4):243–51

Negative affect relates to cross–sectional but not longitudinal symptom reporting: data from elderly adults. Diefenbach MA, et al. **Health Psychol** 1996 Jul;15(4):282–8

Nonpsychiatric medical comorbidity, health perceptions, and treatment outcome in patients with panic disorder. Schmidt NB, et al. **Health Psychol** 1997 Mar;16(2):114–22

Comparability and representativeness of clinical homeless, community homeless, and domiciled clinic samples: physical and mental health, substance use, and health services utilization. Stein JA, et al. **Health Psychol** 1997 Mar;16(2):155–62

Health expectancy by immigrant status, 1986 and 1991. Chen J, et al. **Health Rep** 1996 Winter;8(3):29–38(Eng); 31–41(Fre) **(Eng, Fre)**

Factors related to functional status after percutaneous transluminal coronary angioplasty. Fitzgerald ST, et al. **Heart Lung** 1996 Jan–Feb;25(1):24–30

Assessing competing risks in treating the elderly. Welch HG, et al. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):155–6, 158–9, 162, passim

Expression of complement in the brain: role in health and disease. Morgan BP, et al. **Immunol Today** 1996 Oct; 17(10):461–6 (34 ref.)

Health and nutritional status of boys aged 6 to 12 years in a children observation home. Chhabra P, et al. **Indian J Public Health** 1996 Oct–Dec;40(4):126–9

Presidential Address. India's health scenario–few issues and challenges. Dutta PK. **Indian J Public Health** 1996 Jul–Sep; 40(3):58–61

General and reproductive health of adolescent girls in rural south India. Joseph GA, et al. **Indian Pediatr** 1997 Mar; 34(3):242–5

Peak expiratory flow rate of carpet weaving children. Joshi SK, et al. **Indian Pediatr** 1996 Feb;33(2):105–8

Self–reported sleep disturbance among African–American elderly: the effects of depression, health status, exercise, and social support. Bazargan M. **Int J Aging Hum Dev** 1996;42(2):143–60

Co–morbidity analysis: a strategy for understanding mortality, disability and use of health care facilities of older people. Cornoni–Huntley JC, et al. **Int J Epidemiol** 1991; 20 Suppl 1:S8–17 (19 ref.)

Perceived health status and morbidity and mortality: evidence from the Kuopio ischaemic heart disease risk factor study. Kaplan GA, et al. **Int J Epidemiol** 1996 Apr; 25(2):259–65

Health care delivery and the status of the population's health in the current crises in former Yugoslavia using EPI–design methodology. Legetic B, et al. **Int J Epidemiol** 1996 Apr; 25(2):341–8

The Australian Vietnam Veterans Health Study: III. psychological health of Australian Vietnam veterans and its relationship to combat. O'Toole BI, et al. **Int J Epidemiol** 1996 Apr;25(2):331–40

The Australian Vietnam Veterans Health Study: I. study design and response bias. O'Toole BI, et al. **Int J Epidemiol** 1996 Apr;25(2):307–18

The Australian Vietnam Veterans Health Study: II. self–reported health of veterans compared with the Australian population. O'Toole BI, et al. **Int J Epidemiol** 1996 Apr;25(2):319–30

The interrelationship between income, health and employment status. Stronks K, et al. **Int J Epidemiol** 1997 Jun;26(3):592–600

A longitudinal study of wellbeing in widowed women. Bennett KM. **Int J Geriatr Psychiatry** 1997 Jan;12(1):61–6

Recommendations of the conference "Measuring Social Inequalities in Health". Sponsored by the National Institutes of Health, September 28–30, 1994. **Int J Health Serv** 1996; 26(3):521–7

Integrating nonemployment into research on health inequalities. Arber S. **Int J Health Serv** 1996;26(3):445–81

Income dynamics and health. Duncan GJ. **Int J Health Serv** 1996;26(3):419–44 (57 ref.)

People and places: contrasting perspectives on the association between social class and health. Kaplan GA. **Int J Health Serv** 1996;26(3):507–19

Accounting for the public's health: an introduction to selected papers from a U.S. conference on "measuring social inequalities in health". Krieger N, et al. **Int J Health Serv** 1996;26(3):383–90

Measuring social inequalities in health in the United States: a historical review, 1900–1950. Krieger N, et al. **Int J Health Serv** 1996;26(3):391–418

Is unemployment pathogenic? A review of current concepts with lessons for policy planners. Shortt SE. **Int J Health Serv** 1996;26(3):569–89 (115 ref.)

Race/ethnicity and socioeconomic status: measurement and methodological issues. Williams DR. **Int J Health Serv** 1996;26(3):483–505 (81 ref.)

Health and social standing of young men viewed in light of information on their childhood and adolescence. Pietilä AM, et al. **Int J Nurs Stud** 1995 Dec;32(6):545–55

Dieting, weight and health in adolescents in The Netherlands. Brugman E, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):54–60

An analysis of the meaning of some concepts related to health. Doroszewski J. **Int J Occup Med Environ Health** 1997;10(2):141–6

Selected aspects of the population health status in ecological hazard areas in comparison with ecologically "clean area". III. localisation of urban regions with high mortality from all and from the circulatory system diseases. Dutkiewicz T, et al. **Int J Occup Med Environ Health** 1995;8(4):321–29

Total hip replacement. The preoperative health status of patients in Japan compared with England and the United States. Imamura K, et al. **Int J Technol Assess Health Care** 1997 Winter;13(1):1–10

Healthy years equivalents versus time trade–off. Ambiguity on certainty and uncertainty. Rittenhouse BE. **Int J Technol Assess Health Care** 1997 Winter;13(1):35–48

Labor and health status in economic evaluation of health care. The Health and Labor Questionnaire. van Roijen L, et al. **Int J Technol Assess Health Care** 1996 Summer; 12(3):405–15

Health and dietary characteristics of supplement users in an elderly population. Houston DK, et al. **Int J Vitam Nutr Res** 1997;67(3):183–91

Measuring health and health state preferences among critically ill patients. Badia X, et al. **Intensive Care Med** 1996 Dec;22(12):1379–84

Profile of Jerusalem's 70 year olds—medical data. Stessman J, et al. **Isr J Med Sci** 1996 Aug;32(8):665–87

Adolescent health in Russia: a view from Moscow and St. Petersburg. Blum RW, et al. **J Adolesc Health** 1996 Oct; 19(4):308–14

Do school–based health centers improve adolescents' access to health care, health status, and risk–taking behavior? Kisker EE, et al. **J Adolesc Health** 1996 May;18(5):335–43

An investigation of adolescent health from China. Liu GR. **J Adolesc Health** 1997 Apr;20(4):306–8

The health and psychosocial status of HIV–seropositive youth in Minnesota. Remafedi G, et al. **J Adolesc Health** 1996 Apr;18(4):263–9

Characteristics of users and nonusers of health clinics in inner–city junior high schools. Walter HJ, et al. **J Adolesc Health** 1996 May;18(5):344–8

Burden and health outcomes of family caregivers of hospitalized bone marrow transplant patients. Foxall MJ, et al. **J Adv Nurs** 1996 Nov;24(5):915–23

Physical and social correlates of perceived psychological support among hospitalized AIDS patients. Kataoka–Yahiro MR, et al. **J Adv Nurs** 1996 Jul; 24(1):167–73

Patterns of recovery among Norwegian heart surgery patients. Kirkevold M, et al. **J Adv Nurs** 1996 Nov; 24(5):943–51

Functional status of the oldest–old in a home setting. Krach P, et al. **J Adv Nurs** 1996 Sep;24(3):456–64

Male patients with congestive heart failure and their conception of the life situation. Mårtensson J, et al. **J Adv Nurs** 1997 Mar;25(3):579–86

Self–reported family health and well–being after early discharge from maternity hospital: a phenomenological study. Paavilainen R, et al. **J Adv Nurs** 1997 Aug; 26(2):266–72

Cross–sectional and prospective relationships between physical morbidity and depression in older adolescents. Lewinsohn PM, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Sep;35(9):1120–9

Effects of war trauma on Cambodian refugee adolescents' functional health and mental health status. Mollica RF, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Aug; 36(8):1098–106

Health problems of refugees. Ackerman LK. **J Am Board Fam Pract** 1997 Sep–Oct;10(5):337–48 (72 ref.)

Health and lifestyle issues as risk factors for homelessness [see comments] Heffron WA, et al. **J Am Board Fam Pract** 1997 Jan–Feb;10(1):6–12. Comment in: J Am Board Fam Pract 1997 Jan–Feb;10(1):67–71.

Health problems of college students. Grace TW. **J Am Coll Health** 1997 May;45(6):243–50 (79 ref.)

The potential role of lycopene for human health. Gerster H. **J Am Coll Nutr** 1997 Apr;16(2):109–26 (117 ref.)

Common health problems among minority elders. Bernard MA, et al. **J Am Diet Assoc** 1997 Jul;97(7):771–6 (39 ref.)

Among young adults, college students and graduates practiced more healthful habits and made more healthful food choices than did nonstudents. Georgiou CC, et al. **J Am Diet Assoc** 1997 Jul;97(7):754–9

Nutrition and health for older persons in rural America: a managed care model. Klein GL, et al. **J Am Diet Assoc** 1997 Aug;97(8):885–8

Baseline correlates with quality of life among men and women with medication–controlled hypertension. The trial of nonpharmacologic interventions in the elderly (TONE). Anderson RT, et al. **J Am Geriatr Soc** 1997 Sep; 45(9):1080–5

Prevalence of diabetes and effect on quality of life in older French living in the community: the PAQUID Epidemiological Survey. Bourdel–Marchasson I, et al. **J Am Geriatr Soc** 1997 Mar;45(3):295–301

Effect of the National Resident Assessment Instrument on selected health conditions and problems [see comments] Fries BE, et al. **J Am Geriatr Soc** 1997 Aug;45(8):994–1001 . Comment in: J Am Geriatr Soc 1997 Aug;45(8):975–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1025–6. Comment in: J Am Geriatr Soc 1997 Aug;45(8):1027–8.

Characteristics of patients receiving or foregoing resuscitation at the time of cardiopulmonary arrest. Ghusn HF, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1118–22

Medical care in old age: what do nurses in long–term care consider appropriate? Gillick MR, et al. **J Am Geriatr Soc** 1996 Nov;44(11):1322–5

Can a physician recognize an older driver with increased crash risk potential? Johansson K, et al. **J Am Geriatr Soc** 1996 Oct;44(10):1198–204

Health status gender differences of newly admitted black nursing home residents. Martin JC, et al. **J Am Geriatr Soc** 1997 Feb;45(2):166–73

Inner–city older blacks have high levels of functional disability. Miller DK, et al. **J Am Geriatr Soc** 1996 Oct; 44(10):1166–73

The relationship between self–rated health and depressive symptoms in an epidemiological sample of community–dwelling older adults. Mulsant BH, et al. **J Am Geriatr Soc** 1997 Aug;45(8):954–8

Why is health care use rising if morbidity is being compressed? [editorial; comment] Wagner EH. **J Am Geriatr Soc** 1997 Jun;45(6):768–9. Comment on: J

Am Geriatr Soc 1997 Jun;45(6):667–74.
Effect of maternal depression on premature infant health during initial hospitalization [see comments] Locke R, et al. **J Am Osteopath Assoc** 1997 Mar;97(3):145–9. Comment in: J Am Osteopath Assoc 1997 Mar;97(3):136, 139.
Effects of dogs on human health. Allen DT. **J Am Vet Med Assoc** 1997 Apr 15;210(8):1136–9 (29 ref.)
Influence of weaning age and nursery diet complexity on growth performance and carcass characteristics and composition of high–health status pigs from weaning to 109 kilograms. Dritz SS, et al. **J Anim Sci** 1996 Dec; 74(12):2975–84
The reliability and validity of a structured interview for the assessment of infectious illness symptoms. Orts K, et al. **J Behav Med** 1995 Dec;18(6):517–29
Feelings of parental caring predict health status in midlife: a 35–year follow–up of the Harvard Mastery of Stress Study. Russek LG, et al. **J Behav Med** 1997 Feb;20(1):1–13
A healthy body and a healthy mind?: the relationship between ill–health and cognitive function in school–age children. Nokes C. **J Biosoc Sci** 1996 Oct;28(4):453–62 (18 ref.)
Medical status, functional status and drug utilization patterns of a population of older dental patients in Winnipeg, Manitoba. Galan D, et al. **J Can Dent Assoc** 1997 Jan; 63(1):29–33
Human exposure and health cannot be overlooked in environmental monitoring programmes. Overview. Staessen JA, et al. **J Cardiovasc Risk** 1996 Feb;3(1):1–3
Unindicated preoperative testing: ASA physical status and financial implications [see comments] Vogt AW, et al. **J Clin Anesth** 1997 Sep;9(6):437–41. Comment in: J Clin Anesth 1997 Sep;9(6):435–6.
Bone health is not affected by luteal phase abnormalities and decreased ovarian progesterone production in female runners. De Souza MJ, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):2867–76
Status versus ability in function [letter; comment] Fawcett J, et al. **J Clin Epidemiol** 1997 Apr;50(4):499. Comment on: J Clin Epidemiol 1996 Feb;49(2):193–201.
Does it matter whom and how you ask? inter– and intra–rater agreement in the Ontario Health Survey. Grootendorst PV, et al. **J Clin Epidemiol** 1997 Feb;50(2):127–35
Health status and hypertension: a population–based study. Lawrence WF, et al. **J Clin Epidemiol** 1996 Nov; 49(11):1239–45
Self–rated health status as a health measure: the predictive value of self–reported health status on the use of physician services and on mortality in the working–age population. Miilunpalo S, et al. **J Clin Epidemiol** 1997 May;50(5):517–28
On the debate over methods for estimating the clinically important difference [comment] Redelmeier DA, et al. **J Clin Epidemiol** 1996 Nov;49(11):1223–4. Comment on: J Clin Epidemiol 1996 Nov;49(11):1215–9. Comment on: J Clin Epidemiol 1996 Nov;49(11):1221–2.
Assessing the minimal important difference in symptoms: a comparison of two techniques [see comments] Redelmeier DA, et al. **J Clin Epidemiol** 1996 Nov;49(11):1215–9. Comment in: J Clin Epidemiol 1996 Nov;49(11):1221–2. Comment in: J Clin Epidemiol 1996 Nov;49(11):1223–4.
Use of goal attainment scaling in measuring clinically important change in cognitive rehabilitation patients. Rockwood K, et al. **J Clin Epidemiol** 1997 May;50(5):581–8
Functional health status as a predictor of mortality in men and women over 65. Scott WK, et al. **J Clin Epidemiol** 1997 Mar;50(3):291–6
Comparison of a generic to disease–targeted health–related quality–of–life measures for multiple sclerosis. Vickrey BG, et al. **J Clin Epidemiol** 1997 May;50(5):557–69
The minimal important difference: who's to say what is important? [comment] Wright JG. **J Clin Epidemiol** 1996 Nov;49(11):1221–2. Comment on: J Clin Epidemiol 1996 Nov;49(11):1215–9. Comment on: J Clin Epidemiol 1996 Nov;49(11):1223–4.
Long–term follow–up of health in blood donors with primary selective IgA deficiency. Koskinen S. **J Clin Immunol** 1996 May;16(3):165–70
Determinants of postchemotherapy nausea and vomiting in patients with cancer. Quality of Life and Symptom Control Committees of the National Cancer Institute of Canada Clinical Trials Group. Osoba D, et al. **J Clin Oncol** 1997 Jan;15(1):116–23
Measurement of patient–derived utility values for periodontal health using a multi–attribute scale. Bellamy CA, et al. **J Clin Periodontol** 1996 Sep;23(9):805–9
Economic and health state utility determinations for schizophrenic patients treated with risperidone or haloperidol. Chouinard G, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):298–307
Association between time homeless and perceived health status among the homeless in San Francisco. White MC, et al. **J Community Health** 1997 Aug;22(4):271–82
Health status and satisfaction with health care: results from the medical outcomes study. Marshall GN, et al. **J Consult Clin Psychol** 1996 Apr;64(2):380–90
Effects of dietary crude protein, breed, parity, and health status on the fertility of dairy cows. Barton BA, et al. **J Dairy Sci** 1996 Dec;79(12):2225–36
Dairy herd management types assessed from indicators of health, reproduction, replacement, and milk production. Enevoldsen C, et al. **J Dairy Sci** 1996 Jul;79(7):1221–36
Effect of a whey protein concentrate used as a colostrum substitute or supplement on calf immunity, weight gain, and health. Mee JF, et al. **J Dairy Sci** 1996 May; 79(5):886–94
A comparative epidemiological study on the effects of physical fitness on health level. Hiraoka J, et al. **J Epidemiol** 1996 Sep;6(3):120–7
Inequality in health and health service use for mothers of young children in south west England. Survey Team of the Avon Longitudinal Study of Pregnancy and Childhood Team. Baker D, et al. **J Epidemiol Community Health** 1997 Feb;51(1):74–9
Evidence for the sensitivity of the SF–36 health status measure to inequalities in health: results from the Oxford healthy lifestyles survey. Jenkinson C, et al. **J Epidemiol Community Health** 1996 Jun;50(3):377–80
Self rated health as a predictor of coronary heart disease in Copenhagen, Denmark. Møller L, et al. **J Epidemiol Community Health** 1996 Aug;50(4):423–8
Health and social precursors of unemployment in young men in Great Britain. Montgomery SM, et al. **J Epidemiol Community Health** 1996 Aug;50(4):415–22
Race and self assessed health status: the role of socioeconomic factors in the USA. Ren XS, et al. **J Epidemiol Community Health** 1996 Jun;50(3):269–73
Unemployment and health: the quality of social support among residents in the Trent region of England. Roberts H, et al. **J Epidemiol Community Health** 1997 Feb; 51(1):41–5
Self reported poor health and low educational level predictors for mortality: a population based follow up study of 39,156 people in Sweden. Sundquist J, et al. **J Epidemiol Community Health** 1997 Feb;51(1):35–40
Health–related quality of life in obese persons seeking treatment. Fontaine KR, et al. **J Fam Pract** 1996 Sep; 43(3):265–70
Sex differences in health problems, diagnostic testing, and referral in primary care. Stoverinck MJ, et al. **J Fam Pract** 1996 Dec;43(6):567–76
Pain and health status of primary care patients with low back pain. van den Hoogen HJ, et al. **J Fam Pract** 1997 Feb; 44(2):187–92
Functional associations of "trouble seeing". Kington R, et al. **J Gen Intern Med** 1997 Feb;12(2):125–8
Correlates of performance–based measures of muscle function in the elderly: the Cardiovascular Health Study. Hirsch CH, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul; 52(4):M192–200
The relationship of social environment, social networks, and health outcomes in the Seattle Longitudinal Study: two analytical approaches. Bosworth HB, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Sep;52(5):P197–205
The interactive effect of perceived control and functional status on health and mortality among young–old and old–old adults. Menec VH, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52(3):P118–26
Asset and Health Dynamics Among the Oldest Old (AHEAD): initial results from the longitudinal study. Introduction. Myers GC, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:v–viii
Race, socioeconomic status, and health: accounting for race differences in health. Schoenbaum M, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:61–73
Asset and Health Dynamics Among the Oldest Old: an overview of the AHEAD Study. Soldo BJ, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:1–20
The structure of health status among Hispanic, African American, and white older adults. Stump TE, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:49–60
Social relations and health assessments among older people: do the effects of integration and social contributions vary cross–culturally? Su YP, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jan;52(1):S27–36
The quality of health data obtained in a new survey of elderly Americans: a validation study of the proposed Medicare Beneficiary Health Status Registry (MBHSR). Turner CF, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jan; 52(1):S49–58
Income, health status, and insurance coverage of small group employees in a voluntary purchasing arrangement. Christianson JB, et al. **J Health Care Poor Underserved** 1996 May;7(2):122–39
Health status of and access to health services by residents of urban encampments in Los Angeles. Cousineau MR. **J Health Care Poor Underserved** 1997 Feb;8(1):70–82
Double jeopardy to health hypothesis for African Americans: analysis and critique. Ferraro KF, et al. **J Health Soc Behav** 1996 Mar;37(1):27–43
Self–rated health and mortality: a review of twenty–seven community studies. Idler EL, et al. **J Health Soc Behav** 1997 Mar;38(1):21–37 (95 ref.)
Education, age, and the cumulative advantage in health. Ross CE, et al. **J Health Soc Behav** 1996 Mar;37(1):104–20
Parental support and adolescent physical health status: a latent growth–curve analysis. Wickrama KA, et al. **J Health Soc Behav** 1997 Jun;38(2):149–63
Status of lung transplant recipients surviving beyond five years. Chaparro C, et al. **J Heart Lung Transplant** 1997 May;16(5):511–6
Medical aspects of ageing in a population with intellectual disability: III. Mobility, internal conditions and cancer [published erratum appears in J Intellect Disabil Res 1997 Jun;41(Pt 3):283] Evenhuis HM. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):8–18
Dementia in older people with intellectual disability: symptoms of physical and mental illness, and levels of adaptive behaviour. Moss S, et al. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):60–9
The health needs of adults with learning disabilities and the Health of the Nation strategy. Turner S, et al. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):438–50 (112 ref.)
Prevalence and incidence of health problems in people with intellectual disability. van Schrojenstein Lantman–de Valk HM, et al. **J Intellect Disabil Res** 1997 Feb;41 (Pt 1):42–51
Daytime sleepiness and napping amongst the elderly in relation to somatic health and medical treatment. Asplund R. **J Intern Med** 1996 Mar;239(3):261–7
Health, health care utilization and living conditions in foreign–born diabetic patients in southern Sweden. Hjelm K, et al. **J Intern Med** 1997 Aug;242(2):131–41
Children's plight in Georgia: dark [editorial] Moran MJ. **J Med Assoc Ga** 1996 Sep;85(3):133
Data from a public school health project in Beirut. Saab BR, et al. **J Med Liban** 1996;44(2):63–7
Health outcomes research on Hispanics/Latinos. Giachello AL. **J Med Syst** 1996 Oct;20(5):235–54 (41 ref.)
Hispanic/Latino health outcomes research. Introduction to special issue. Gray J, et al. **J Med Syst** 1996 Oct; 20(5):229–33 (23 ref.)
A neural network application to classification of health status of HIV/AIDS patients. Kwak NK, et al. **J Med Syst** 1997 Apr;21(2):87–97
Physical illness among all discharged psychiatric inpatients in a national case register. Rabinowitz J, et al. **J Ment Health Adm** 1997 Winter;24(1):82–9
African–American myths and health care: the sociocultural theory [editorial] Davis IJ, et al. **J Natl Med Assoc** 1995 Nov;87(11):791–4
Residual health status after Guillain–Barré syndrome. Bernsen RA, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):637–40
Does routine follow up after head injury help? A randomised controlled trial. Wade DT, et al. **J Neurol Neurosurg Psychiatry** 1997 May;62(5):478–84
Effect of neurological dysfunction on health–related quality of life in patients with high–grade glioma. Osoba D, et al. **J Neurooncol** 1997 Sep;34(3):263–78
Sequelae of abuse. Health effects of childhood sexual abuse, domestic battering, and rape. Bohn DK, et al. **J Nurse Midwifery** 1996 Nov–Dec;41(6):442–56 (106 ref.)
Health status of Victorian special school children [corrected and republished article originally printed in J Paediatr Child Health 1995 Oct;31(5):423–7] [see comments] Ackland MJ, et al. **J Paediatr Child Health** 1995 Dec; 31(6):571–5. Comment in: J Paediatr Child Health 1996 Aug;32(4):353–4.
Measuring health outcome in paediatrics: development of the RAHC measure of function. Dossetor DR, et al. **J Paediatr Child Health** 1996 Dec;32(6):519–24
Health status of Victorian special school students [letter; comment] Van Haeringen AR, et al. **J Paediatr Child Health** 1996 Aug;32(4):353–4. Comment on: J Paediatr Child Health 1995 Dec;31(6):571–5.
Differences in mood states, health status, and caregiver strain between family caregivers of oncology outpatients with and without cancer–related pain. Miaskowski C, et al. **J Pain Symptom Manage** 1997 Mar;13(3):138–47
Excessive playing of home computer games by children presenting unexplained symptoms [letter] Tazawa Y, et al. **J Pediatr** 1997 Jun;130(6):1010–1
Late effects of therapy in survivors of Ewing's sarcoma family tumors. Novakovic B, et al. **J Pediatr Hematol Oncol** 1997 May–Jun;19(3):220–5
Ethnic differences in adolescents' perceived health status: preliminary findings. Rew L. **J Pediatr Nurs** 1997 Aug; 12(4):223–7
Fostering children's resilience. Stewart M, et al. **J Pediatr Nurs** 1997 Feb;12(1):21–31 (107 ref.)
Behavioral sleep states in very low birth weight preterm neonates: relation to neonatal health and vagal maturation. Doussard–Rossevelt J, et al. **J Pediatr Psychol** 1996 Dec; 21(6):785–802
Assessment of health–related quality of life in children and adolescents: an integrative review. Spieth LE, et al. **J Pediatr Psychol** 1996 Apr;21(2):175–93 (64 ref.)
Alexithymia, social support and health problems. Lumley MA, et al. **J Psychosom Res** 1996 Dec;41(6):519–30
Determination of future health status expectation in rheumatoid arthritis. Radanov BP, et al. **J Psychosom Res** 1997 Apr;42(4):403–6
Serious on–the–track accidents experienced by train drivers: psychological reactions and long–term health effects. Vatshelle A, et al. **J Psychosom Res** 1997 Jan;42(1):43–52
The state of the nation's oral health: mid–decade assessment of Healthy People 2000. Gift HC, et al. **J Public Health Dent** 1996 Spring;56(2):84–91
Dissatisfaction with oral health status in an older adult population. Jokovic A, et al. **J Public Health Dent** 1997 Winter;57(1):40–7
A shorter form health survey: can the SF–12 replicate results from the SF–36 in longitudinal studies? Jenkinson C, et al. **J Public Health Med** 1997 Jun;19(2):179–86

Health conditions in Argentina: facing the twenty-first century. Mazzafero VE, et al. **J Public Health Med** 1996 Jun;18(2):234–7

Management and health status in the first year after out-of-hospital cardiac arrest. Batin PD, et al. **J R Coll Physicians Lond** 1997 May-Jun;31(3):280–6

Inequitable variation [see comments] Black D. **J R Coll Physicians Lond** 1996 Jan-Feb;30(1):8–9. Comment in: J R Coll Physicians Lond 1996 Jul-Aug;30(4):396.

Ethnic influence on health and dependency of elderly inner city residents. Ritch AE, et al. **J R Coll Physicians Lond** 1996 May-Jun;30(3):215–20

Health in the NHS [letter] Waldron HA. **J R Coll Physicians Lond** 1996 May-Jun;30(3):271–2

Health/ill-health transition in less privileged populations: what does the future hold? Walker AR, et al. **J R Coll Physicians Lond** 1997 Jul-Aug;31(4):392–5 (61 ref.)

Seven research projects for South Africa [editorial] Walker AR. **J R Soc Med** 1997 Jul;90(7):361–3

Reliability, validity, and sensitivity of a Swedish version of the revised and expanded Arthritis Impact Measurement Scales (AIMS2). Archenholtz B, et al. **J Rheumatol** 1997 Jul;24(7):1370–7

The assessment of functional status in rheumatoid arthritis: a cross cultural, longitudinal comparison of the Health Assessment Questionnaire and the Groningen Activity Restriction Scale. Doeglas D, et al. **J Rheumatol** 1995 Oct; 22(10):1834–43

Relationship of the Arthritis Impact Measurement Scales to changes in articular status and functional performance in patients with psoriatic arthritis. Husted J, et al. **J Rheumatol** 1996 Nov;23(11):1932–7

Comparison of standard and alternative health assessment questionnaire scoring procedures for documenting functional outcomes in patients with rheumatoid arthritis. Tomlin GS, et al. **J Rheumatol** 1996 Sep;23(9):1524–30

The health of women and children in South Carolina: success or crisis? [published erratum appears in J S C Med Assoc 1996 May;92(5):236–7] Sappenfield WM, et al. **J S C Med Assoc** 1996 Mar;92(3):103–13

Marital status, gender, and perception of well-being. Mookherjee HN. **J Soc Psychol** 1997 Feb;137(1):95–105

Nutritional, immunologic and psychological responses to a 7250 km run. Mertens DJ, et al. **J Sports Med Phys Fitness** 1996 Jun;36(2):132–8

Relationship between perceptions of physical activity and health-related fitness. Shephard RJ, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):149–58

Traumatic events and physical health in a community sample. Ullman SE, et al. **J Trauma Stress** 1996 Oct;9(4):703–20

Self-reported illness and health status among Gulf War veterans. A population-based study. The Iowa Persian Gulf Study Group [see comments] **JAMA** 1997 Jan 15; 277(3):238–45. Comment in: JAMA 1997 Jan 15;277(3):259–61.

Health of children adopted from the former Soviet Union and Eastern Europe. Comparison with preadoptive medical records. Albers LH, et al. **JAMA** 1997 Sep 17;278(11):922–4

Risk-adjustment methods based on health status and functional status [letter; comment] Allman RM. **JAMA** 1997 Feb 19;277(7):530–1. Comment on: JAMA 1996 Oct 23–30;276(16):1316–21.

The elderly and poor in the medical outcomes study [letter; comment] Barrett PH Jr, et al. **JAMA** 1996 Dec 25; 276(24):1952; discussion 1953. Comment on: JAMA 1996 Oct 2;276(13):1039–47.

Graying of the immune system. Can nutrient supplements improve immunity in the elderly? [comment] Chandra RK. **JAMA** 1997 May 7;277(17):1398–9. Comment on: JAMA 1997 May 7;277(17):1380–6.

Taking health status into account when setting capitation rates: a comparison of risk-adjustment methods [see comments] Fowles JB, et al. **JAMA** 1996 Oct 23–30; 276(16):1316–21. Comment in: JAMA 1997 Feb 19;277(7):530–1.

The elderly and poor in the medical outcomes study [letter; comment] Grana JR, et al. **JAMA** 1996 Dec 25; 276(24):1952–3; discussion 1953. Comment on: JAMA 1996 Oct 2;276(13):1039–47.

Nationwide study of health and coping among immigrant children and families [news] Lamberg L. **JAMA** 1996 Nov 13;276(18):1455–6

The problem of quality of life in medicine. Leplège A, et al. **JAMA** 1997 Jul 2;278(1):47–50

NHANES III health data relevant for aging nation [news] Marwick C. **JAMA** 1997 Jan 8;277(2):100–2

Cornell Medical Index score observed among northeast Thai nursing students. Nanakorn S, et al. **Kurume Med J** 1997; 44(2):99–104

FELASA recommendations for the health monitoring of mouse, rat, hamster, gerbil, guinea pig and rabbit experimental units. Report of the Federation of European Laboratory Animal Science Associations (FELASA) Working Group on Animal Health accepted by the FELASA Board of Management, November 1995. Rehbinder C, et al. **Lab Anim** 1996 Jul;30(3):193–208

Unemployment and health selection [comment] Bartley M. **Lancet** 1996 Oct 5;348(9032):904. Comment on: Lancet 1996 Oct 5;348(9032):909–12.

Health inequality: the UK's biggest health issue [letter; comment] Crawford MA. **Lancet** 1997 Jun 28; 349(9069):1915. Comment on: Lancet 1997 Apr 26;349(9060):1185.

Socioeconomic inequalities in morbidity and mortality in western Europe [letter] Di Carlo A, et al. **Lancet** 1997 Aug 16;350(9076):518

Adolescents: daughters or alien sociopaths? Males M. **Lancet** 1997 Mar;349 Suppl 1:sI13–6

Fetal growth and coronary heart disease [letter; comment] Modi N, et al. **Lancet** 1997 Jan 25;349(9047):286–7. Comment on: Lancet 1996 Nov 9;348(9037):1254–5.

Health situation of refugees in eastern Zaire [letter] Nabeth P, et al. **Lancet** 1997 Apr 5;349(9057):1031–2

Health inequalities recognised in UK. Scott-Samuel A. **Lancet** 1997 Sep 13;350(9080):753

Mind over matter about keeping warm [comment] Sperber AD, et al. **Lancet** 1997 May 10;349(9062):1337–8. Comment on: Lancet 1997 May 10;349(9062):1341–6.

Socioeconomic inequalities in morbidity and mortality in western Europe [letter; comment] Vågerö D, et al. **Lancet** 1997 Aug 16;350(9076):516; discussion 517–8. Comment on: Lancet 1997 Jun 7;349(9066):1655–9.

Factors related to quality of life and functional status in 50 patients with head and neck cancer. Long SA, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1084–8

A comparison of five health status instruments in patients with systemic lupus erythematosus (SLE). Gladman DD, et al. **Lupus** 1996 Jun;5(3):190–5

Vasomotor symptoms and well-being in the climacteric years. Groeneveld FP, et al. **Maturitas** 1996 Apr; 23(3):293–9

Patient-physician agreement about medical diagnoses and cardiovascular risk factors in the ambulatory general medical examination [see comments] Scheitel SM, et al. **Mayo Clin Proc** 1996 Dec;71(12):1131–7. Comment in: Mayo Clin Proc 1996 Dec;71(12):1209–10.

Concord, discord, and primary care [editorial; comment] Starfield B. **Mayo Clin Proc** 1996 Dec;71(12):1209–10. Comment on: Mayo Clin Proc 1996 Dec;71(12):1131–7.

Sociocultural and behavioral influences on health status among the Mississippi Choctaw. Dressler WW, et al. **Med Anthropol** 1996 Dec;17(2):165–80

Understanding changes in health status. Is the floor phenomenon merely the last step of the staircase? Baker DW, et al. **Med Care** 1997 Jan;35(1):1–15

Patients' health as a predictor of physician and patient behavior in medical visits. A synthesis of four studies. Hall JA, et al. **Med Care** 1996 Dec;34(12):1205–18

Health state descriptions. Purposes, issues, a proposal. Llewellyn-Thomas HA. **Med Care** 1996 Dec;34(12 Suppl):DS109–18 (39 ref.)

Time off work and the postpartum health of employed women. McGovern P, et al. **Med Care** 1997 May; 35(5):507–21

Health of grandmothers raising children of the crack cocaine epidemic. Roe KM, et al. **Med Care** 1996 Nov; 34(11):1072–84

Armed conflicts, health and health services in Africa. An epidemiological framework of reference. Loretti A. **Med Confl Surviv** 1997 Jul-Sep;13(3):219–28

Living conditions, inequalities in health, human rights and security: a European perspective in a global context. Middleton J. **Med Confl Surviv** 1996 Jul-Sep;12(3):240–53 (76 ref.)

The validity of QALYs: an experimental test of constant proportional tradeoff and utility independence. Bleichrodt H, et al. **Med Decis Making** 1997 Jan-Mar;17(1):21–32

Long-term care residents' preferences for health states on the quality of well-being scale. Hays RD, et al. **Med Decis Making** 1996 Jul-Sep;16(3):254–61

Health state utility anchors: being clear on what "1" means [editorial;comment] O'Brien BJ. **Med Decis Making** 1997 Jul-Sep;17(3):352–3. Comment on: Med Decis Making 1997 Jul-Sep;17(3):276–84.

Pet ownership and future health [letter] Anderson WP, et al. **Med J Aust** 1997 Aug 18;167(4):230; discussion 230–1

Children in homeless families in Melbourne: health status and use of health services. Efron D, et al. **Med J Aust** 1996 Dec 2–16;165(11–12):630–3

Impact of pet ownership on elderly Australians' use of medical services: an analysis using Medicare data. Jorm AF, et al. **Med J Aust** 1997 Apr 7;166(7):376–7

Pet ownership and future health [letter] Simons LA, et al. **Med J Aust** 1997 Aug 18;167(4):231–2

Asylum seekers: general health status and problems with access to health care. Sinnerbrink I, et al. **Med J Aust** 1996 Dec 2–16;165(11–12):634–7

Health and rural-to-urban migration in Thailand. The Population and Community Development Association's experience in rural development. Viravaidya M, et al. **Med J Aust** 1997 Feb 3;166(3):152–5

Influence of fitness status on very-low-density lipoprotein subfractions and lipoprotein(a) in men and women. Thomas TR, et al. **Metabolism** 1997 Oct;46(10):1178–83

Health profile of Danish army personnel. Dahl S, et al. **Mil Med** 1997 Jun;162(6):435–40

Medical care of illegal migrants intercepted on the high sea (Operation Prompt Return). Ellyson RE, et al. **Mil Med** 1996 Oct;161(10):616–9

A comprehensive clinical evaluation of 20,000 Persian Gulf War veterans. Comprehensive Clinical Evaluation Program Evaluation Team. Joseph SC. **Mil Med** 1997 Mar; 162(3):149–55

State- and sex-specific prevalence of selected characteristics--Behavioral Risk Factor Surveillance System, 1992 and 1993. Frazier EL, et al. **MMWR CDC Surveill Summ** 1996 Dec 27;45(6):1–36

Factors associated with self-perceived excellent and very good health among Blacks--Kansas, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Oct 25;45(42):906–11

Older adults in North Carolina. A demographic and health status profile. Blazer DG. **N C Med J** 1996 Nov-Dec; 57(6):344–7

Well-being begins with the mouth [editorial] Kerpen SJ. **N Y State Dent J** 1997 Apr;63(4):6–7

Self-reported dental status and treatment need among elderly people. Thomson WM, et al. **N Z Dent J** 1996 Dec; 92(410):105–9

Visit to Qui Nhon, Vietnam, by New Zealand medical team. Morris D, et al. **N Z Med J** 1997 May 23;110(1044):190–2

Sex, age, height, and weight as predictors of selected physiologic outcomes. Brown JK, et al. **Nurs Res** 1997 Mar-Apr;46(2):101–4

Wellness spirituality in the older adult. Assessment and intervention protocol. Leetun MC. **Nurse Pract** 1996 Aug; 21(8):60, 65–70 (36 ref.)

6-year impact of hearing impairment on psychosocial and physiologic functioning [letter] Wallhagen MI, et al. **Nurse Pract** 1996 Sep;21(9):11–4

Summary of the Surgeon General's report addressing physical activity and health. **Nutr Rev** 1996 Sep;54(9):280–4

Emerging issues in pesticide health studies. Fleming LE, et al. **Occup Med** 1997 Apr-Jun;12(2):387–97 (106 ref.)

Medical assessment for licensing of taxi drivers by Scottish local authorities. Jones GC, et al. **Occup Med (Oxf)** 1997 Jan;47(1):40–4

The impact of blurred vision on functioning and well-being. Lee PP, et al. **Ophthalmology** 1997 Mar;104(3):390–6

Effect of sinus surgery on quality of life. Gliklich RE, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):12–7

Prospective, longitudinal quality-of-life study of patients with head and neck cancer: a feasibility study including the EORTC QLQ-C30. Hammerlid E, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):666–73

An analytical study of the changing health of a hospice population 1978–89. Duke S. **Palliat Med** 1997 Mar; 11(2):145–51

The Stockholm Spinal Cord Injury Study. 3. Health-related issues of the Swedish annual level-of-living survey in SCI subjects and controls. Levi R, et al. **Paraplegia** 1995 Dec; 33(12):726–30

Pressures: impact on health of adolescents. Neal W, et al. **Pediatr Rev** 1996 Aug;17(8):263–4

Effects of wellness, fitness, and sport skills programs on body image and lifestyle behaviors. Koff E, et al. **Percept Mot Skills** 1997 Apr;84(2):555–62

Health-related quality of life assessments in osteoarthritis during NSAID treatment. de Bock GH, et al. **Pharm World Sci** 1996 Aug;18(4):130–6

The Patient-Specific Functional Scale: measurement properties in patients with knee dysfunction. Chatman AB, et al. **Phys Ther** 1997 Aug;77(8):820–9

Evaluation of health-related quality of life in individuals with vestibular disease using disease-specific and general outcome measures. Enloe LJ, et al. **Phys Ther** 1997 Sep; 77(9):890–903

Health status measures: strategies and analytic methods for assessing change scores. Stratford PW, et al. **Phys Ther** 1996 Oct;76(10):1109–23 (33 ref.)

Disability and health: perceptions of a sample of elderly people. Partridge C, et al. **Physiother Res Int** 1996; 1(1):17–29

Our health--better or worse? Findings for 'The Health of Adult Britain 1841–1994'. **Popul Trends** 1997 Summer; (88):43–7

Trends in cardiovascular risk factors (1984–1993) in a Swiss region: results of three population surveys. Wietlisbach V, et al. **Prev Med** 1997 Jul-Aug;26(4):523–33

The Michigan equine monitoring system. II. Frequencies and impact of selected health problems. Kaneene JB, et al. **Prev Vet Med** 1997 Feb;29(4):277–92

Patterns of health maintenance on Michigan equine operations. Kaneene JB, et al. **Prev Vet Med** 1997 Jan; 29(3):201–20

The Michigan equine monitoring system. I. Design, implementation and population estimates. Kaneene JB, et al. **Prev Vet Med** 1997 Feb;29(4):263–75

Design and implementation of the United States National Animal Health Monitoring System 1994–95 Cattle on Feed Evaluation, and an evaluation of the impact of response biases. Losinger WC, et al. **Prev Vet Med** 1997 Jul; 31(1–2):1–14

Issues concerning Mexican cattle on feedlots in the United States as reported in the United States National Animal Health Monitoring System 1994–1995 Cattle on Feed Evaluation. Losinger WC. **Prev Vet Med** 1997 Jul; 31(1–2):15–8

Health status of preweaned dairy heifers in the United States. Wells SJ, et al. **Prev Vet Med** 1997 Jan;29(3):185–99

Health status assessment via the World Wide Web. Bell DS, et al. **Proc AMIA Annu Fall Symp** 1996;:338–42

Relationships of dehydroepiandrosterone sulfate in the elderly with functional, psychological, and mental status, and short-term mortality: a French community-based

study. Berr C, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13410–5

Energy expenditure, body composition, and disease risk in children and adolescents. Goran MI. **Proc Nutr Soc** 1997 Mar;56(1B):195–209 (110 ref.)

Socio–economic differentials in health: the role of nutrition. Smith GD, et al. **Proc Nutr Soc** 1997 Mar;56(1A):75–90 (75 ref.)

Adolescent Kingston girls' school achievement: nutrition, health and social factors. Walker SP, et al. **Proc Nutr Soc** 1996 Mar;55(1B):333–43

Mental and physical health effects of intimate partner violence on women and children. Campbell JC, et al. **Psychiatr Clin North Am** 1997 Jun;20(2):353–74 (149 ref.)

Physical disorders among Southeast Asian refugee outpatients with psychiatric disorders. Ta K, et al. **Psychiatr Serv** 1996 Sep;47(9):975–9

Neighborhood deterioration and self–rated health in later life. Krause N. **Psychol Aging** 1996 Jun;11(2):342–52

The diagnostic and prognostic significance of the Whitely Index, the Illness Attitude Scales and the Somatosensory Amplification Scale. Speckens AE, et al. **Psychol Med** 1996 Sep;26(5):1085–90

Sense of coherence, negative affectivity, and general health in farm supervisors. Strümpfer DJ. **Psychol Rep** 1997 Jun; 80(3 Pt 1):963–6

"...While there's hope, there's life" [editorial] Jenkins CD. **Psychosom Med** 1996 Mar–Apr;58(2):122–4

Impact of sexual and physical abuse dimensions on health status: development of an abuse severity measure. Leserman J, et al. **Psychosom Med** 1997 Mar–Apr;59(2):152–60

Perceptions of parental caring predict health status in midlife: a 35–year follow–up of the Harvard Mastery of Stress Study [see comments] Russek LG, et al. **Psychosom Med** 1997 Mar–Apr;59(2):144–9. Comment in: Psychosom Med 1997 Mar–Apr;59(2):150–1.

Personality traits and long–term health status. The influence of neuroticism and conscientiousness on renal deterioration in type–1 diabetes. Brickman AL, et al. **Psychosomatics** 1996 Sep–Oct;37(5):459–68

Relationship between disturbed eating behavior and other psychosomatic symptoms in adolescents. Buddeberg–Fischer B, et al. **Psychother Psychosom** 1996; 65(6):319–26

What impact do annual public health reports have? Fulop N, et al. **Public Health** 1996 Sep;110(5):307–11

Health and social support among older women in congregate housing. Lough MA, et al. **Public Health Nurs** 1996 Dec; 13(6):434–41

The effects of community differences on health status, health stress, and helping networks in a sample of 900 elderly. Preston DB, et al. **Public Health Nurs** 1996 Feb;13(1):72–9

American Indians and Alaska Natives—overview of the population. Rhoades ER. **Public Health Rep** 1996;111 Suppl 2:49–50 (9 ref.)

Year 2000 health status indicators: a profile of California. Sutocky JW, et al. **Public Health Rep** 1996 Nov–Dec; 111(6):521–6

Short–term effects of air pollution on health: a European approach using epidemiologic time series data. The APHEA Project. Air Pollution Health Effects—A European Approach. Katsouyanni K, et al. **Public Health Rev** 1997;25(1):7–18; discussion 19–28

Quality of life in pre–adolescence: a 17–dimensional health–related measure (17D). Apajasalo M, et al. **Qual Life Res** 1996 Dec;5(6):532–8

Using the SF–36 and Euroqol on an elderly population. Brazier JE, et al. **Qual Life Res** 1996 Apr;5(2):195–204

NHP or SIP—a comparative study in renal insufficiency associated anemia. Essink–Bot ML, et al. **Qual Life Res** 1996 Feb;5(1):91–100

Responsiveness of the SF–36 and a condition–specific measure of health for patients with varicose veins. Garratt AM, et al. **Qual Life Res** 1996 Apr;5(2):223–34

Influence of proxy respondents and mode of administration on health status assessment following central nervous system tumours in childhood. Glaser AW, et al. **Qual Life Res** 1997 Jan;6(1):43–53

Health state valuations from the general public using the visual analogue scale. Gudex C, et al. **Qual Life Res** 1996 Dec;5(6):521–31

Effect of locus of control and consideration of future consequences on time tradeoff utilities for current health. Handler RM, et al. **Qual Life Res** 1997 Jan;6(1):54–60

'Equivalence' and the translation and adaptation of health–related quality of life questionnaires. Herdman M, et al. **Qual Life Res** 1997 Apr;6(3):237–47 (42 ref.)

Is the SF–36 health survey questionnaire suitable as a self–report measure of the health status of older adults with Parkinson's disease? Hobson JP, et al. **Qual Life Res** 1997 Apr;6(3):213–6

The effects of psychiatric disorders and symptoms on quality of life in patients with type I and type II diabetes mellitus. Jacobson AM, et al. **Qual Life Res** 1997 Jan;6(1):11–20

Measuring health status with the Dartmouth COOP charts in low–functioning elderly. Do the illustrations affect the outcomes? Kempen GI, et al. **Qual Life Res** 1997 May; 6(4):323–8

Assessing health–related quality–of–life and health state preference in persons with obesity: a validation study. Mathias SD, et al. **Qual Life Res** 1997 May;6(4):311–22

Quality of life of patients with end stage renal disease: a structural equation model. Moizahn AE, et al. **Qual Life Res** 1996 Aug;5(4):426–32

Health outcomes by self–report: validity of the SF–36 among Australian hospital patients. Shadbolt B, et al. **Qual Life Res** 1997 May;6(4):343–52

Assessing the validity of the SF–36 General Health Survey. Stansfeld SA, et al. **Qual Life Res** 1997 Apr;6(3):217–24

Health–related quality of life: an indicator of quality of care? Treurniet HF, et al. **Qual Life Res** 1997 May;6(4):363–9

Discriminative aspects of two generic and two asthma–specific instruments: relation with symptoms, bronchodilator use and lung function in patients with mild asthma. van der Molen T, et al. **Qual Life Res** 1997 May; 6(4):353–61

Patient–based health status measurement in clinical practice: a study of its impact on epilepsy patients' care. Wagner AK, et al. **Qual Life Res** 1997 May;6(4):329–41

Does the health status of chronically ill patients predict their judgements of the quality of general practice care? Wensing M, et al. **Qual Life Res** 1997 May;6(4):293–9

The effect of mode of administration on medical outcomes study health ratings and EuroQol scores in AIDS. Wu AW, et al. **Qual Life Res** 1997 Jan;6(1):3–10

Physical activity, sport, and health: toward the next century. Haskell WL. **Res Q Exerc Sport** 1996 Sep;67(3 Suppl):S37–47 (59 ref.)

Physical activity and fitness for health and longevity. Paffenbarger RS Jr, et al. **Res Q Exerc Sport** 1996 Sep; 67(3 Suppl):S11–28 (68 ref.)

Definitions of severity and outcome measures. Bucknall CE. **Respir Med** 1996 Sep;90(8):447–52

Validation of the French version of the arthritis impact measurement scales 2 and comparison with the french version of the Nottingham Health Profile. "Quality of Life in Rheumatology" Task Force. Pouchot J, et al. **Rev Rhum Engl Ed** 1996 Jun;63(6):389–404

Experiences and findings of a medical officer on Tristan da Cunha, February 1994–February 1995. Morris J. **S Afr Med J** 1997 Mar;87(3):323–7

A new paradigm—assessment of functioning and the WHO's ICIDH [editorial] Ustun TB. **S Afr Med J** 1996 Dec;86(12 Suppl):1575

Age, body composition, aerobic fitness and health condition as risk factors for musculoskeletal injuries in conscripts. Heir T, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):222–7

High–consulting children indicate illness–prone families. A study of 38 rural and 38 urban Swedish children's health and use of medical care. Petersson C, et al. **Scand J Prim Health Care** 1996 Jun;14(2):71–8

Social inequalities in the experience of illness in Sweden: a "double suffering". Blank N, et al. **Scand J Soc Med** 1996 Jun;24(2):81–9

Health and social networks as predictors of survival in old age. Ljungquist B, et al. **Scand J Soc Med** 1996 Jun; 24(2):90–101

Palpitations and lifestyle: impact of depression and self–rated health. The Nordland Health Study. Løchen ML, et al. **Scand J Soc Med** 1996 Jun;24(2):140–4

Assessing reliability of a measure of self–rated health. Lundberg O, et al. **Scand J Soc Med** 1996 Sep;24(3):218–24

Health–related social mobility: a comparison of currently employed men and women in Britain and Finland. Rahkonen O, et al. **Scand J Soc Med** 1997 Jun;25(2):83–92

Effects of a health examination programme on quality of life and subjective well–being. Rose G, et al. **Scand J Soc Med** 1996 Jun;24(2):124–31

Functional capacity and health of elderly people—the Evergreen project. Background, design and methods of the project. Heikkinen E. **Scand J Soc Med Suppl** 1997;53:1–18

Socio–economic status, health and life–style in two elderly cohorts in Jyväskylä. Pohjolainen P, et al. **Scand J Soc Med Suppl** 1997;52:1–65

Panel finds EMFs pose no threat [news] [see comments] [published erratum appears in Science 1997 Feb 7;275(5301):741] Kaiser J. **Science** 1996 Nov 8; 274(5289):910. Comment in: Science 1996 Nov 29;274(5292):1449–50.

Quality of life and physical functioning of relatives of fibromyalgia patients. Neumann L, et al. **Semin Arthritis Rheum** 1997 Jun;26(6):834–9

Health–related quality of life after total hip replacement. Towheed TE, et al. **Semin Arthritis Rheum** 1996 Aug; 26(1):483–91 (42 ref.)

Relationship between sleepiness and general health status. Briones B, et al. **Sleep** 1996 Sep;19(7):583–8

Measurement of general health status in obstructive sleep apnea hypopnea patients. Fornas C, et al. **Sleep** 1995 Dec; 18(10):876–9

Mental disorders and health care seeking in Bandiagara: a community survey in the Dogon Plateau. Carta MG, et al. **Soc Psychiatry Psychiatr Epidemiol** 1997 May; 32(4):222–9

Physical and psychological well–being among immigrant referrals to colonoscopy. Anson O, et al. **Soc Sci Med** 1996 Nov;43(9):1309–16

Comparing inequalities in women's and men's health: Britain in the 1990s. Arber S. **Soc Sci Med** 1997 Mar;44(6):773–87

Estimating the influence of health as a risk factor on unemployment: a survival analysis of employment durations for workers surveyed in the German Socio–Economic Panel (1984–1990). Arrow JO. **Soc Sci Med** 1996 Jun; 42(12):1651–9

Young doctors' health—II. Health and health behaviour. Baldwin PJ, et al. **Soc Sci Med** 1997 Jul;45(1):41–4

Young doctors' health—I. How do working conditions affect attitudes, health and performance? Baldwin PJ, et al. **Soc Sci Med** 1997 Jul;45(1):35–40

Health, hygiene and maternal education: evidence from The Gambia. Barrett H, et al. **Soc Sci Med** 1996 Dec; 43(11):1579–90

Whose fault is it? People's own conceptions of the reasons for health inequalities. Blaxter M. **Soc Sci Med** 1997 Mar; 44(6):747–56 (31 ref.)

Health inequalities in later life in a social democratic welfare state. Dahl E, et al. **Soc Sci Med** 1997 Mar;44(6):871–81

Mapping visual analogue scale health state valuations onto standard gamble and time trade–off values. Dolan P, et al. **Soc Sci Med** 1997 May;44(10):1519–30

Immigrants and health: unemployment and health–risks of labour migrants in the Federal Republic of Germany, 1984–1992. Elkeles T, et al. **Soc Sci Med** 1996 Oct; 43(7):1035–47

Health status and risk factors of seminomadic pastoralists in Mongolia: a geographical approach. Foggin PM, et al. **Soc Sci Med** 1997 Jun;44(11):1623–47

Some conceptual considerations on the sense of coherence. Geyer S. **Soc Sci Med** 1997 Jun;44(12):1771–9 (59 ref.)

Child development and long–term outcomes: a population health perspective and summary of successful interventions. Hertzman C, et al. **Soc Sci Med** 1996 Oct;43(7):1083–95 (84 ref.)

Gender differences in health: evidence from the Czech Republic. Hraba J, et al. **Soc Sci Med** 1996 Nov; 43(10):1443–51

The at–risk health status and technology: a diagnostic invitation and the 'gift' of knowing. Kenen RH. **Soc Sci Med** 1996 Jun;42(11):1545–53

Changes in the social patterning of health? The case of Finland 1986–1994. Lahelma E, et al. **Soc Sci Med** 1997 Mar;44(6):789–99

Health inequalities in modern societies and beyond. Introduction. Lahelma E, et al. **Soc Sci Med** 1997 Mar; 44(6):721–2

Race/ethnicity, the social environment, and health. Lillie–Blanton M, et al. **Soc Sci Med** 1996 Jul;43(1):83–91 (41 ref.)

Childhood conditions, sense of coherence, social class and adult ill health: exploring their theoretical and empirical relations. Lundberg O. **Soc Sci Med** 1997 Mar;44(6):821–31

The integration of two health systems: social stratification, work and health in East and West Germany. Lüschen G, et al. **Soc Sci Med** 1997 Mar;44(6):883–99

After unification: gender and subjective health status in East and West Germany. Lüschen G, et al. **Soc Sci Med** 1997 May;44(9):1313–23

The Black Report and beyond: what are the issues? Macintyre S. **Soc Sci Med** 1997 Mar;44(6):723–45 (196 ref.)

Measuring the magnitude of socio–economic inequalities in health: an overview of available measures illustrated with two examples from Europe. Mackenbach JP, et al. **Soc Sci Med** 1997 Mar;44(6):757–71 (35 ref.)

Women's health: dimensions and differentials. Macran S, et al. **Soc Sci Med** 1996 May;42(9):1203–16

Social inequalities in health: next questions and converging evidence. Marmot M, et al. **Soc Sci Med** 1997 Mar; 44(6):901–10

Urban violence: health consequences and costs. Oloruntimehin O. **Soc Sci Med** 1996 Sep;43(5):887–8

Past or present? Childhood living conditions and current socioeconomic status as determinants of adult health. Rahkonen O, et al. **Soc Sci Med** 1997 Feb;44(3):327–36

Aerobic exercise, subjective health and psychological well–being within age and gender subgroups. Ransford HE, et al. **Soc Sci Med** 1996 Jun;42(11):1555–9

Long–term illness among indigenous and foreign–born people in Sweden. Sundquist J, et al. **Soc Sci Med** 1997 Jan; 44(2):189–98

Health expectancy by level of education in Finland. Valkonen T, et al. **Soc Sci Med** 1997 Mar;44(6):801–8

Regional inequities in health expectancy in Belgium. Van Oyen H, et al. **Soc Sci Med** 1996 Dec;43(11):1673–8

Health inequalities in the life course perspective. Wadsworth ME. **Soc Sci Med** 1997 Mar;44(6):859–69

Marriage protection and marriage selection—prospective evidence for reciprocal effects of marital status and health. Waldron I, et al. **Soc Sci Med** 1996 Jul;43(1):113–23

Paid work, unpaid work and social support: a study of the health of male and female nurses. Walters V, et al. **Soc Sci Med** 1996 Dec;43(11):1627–36

Health inequalities in the early years: is there equalisation in youth? West P. **Soc Sci Med** 1997 Mar;44(6):833–58

Female life expectancy, gender stratification, health status, and level of economic development: a cross–national study of less developed countries. Williamson JB, et al. **Soc Sci Med** 1997 Jul;45(2):305–17

Externalities and economic realities: a macrochallenge for health economics [editorial] Kidson C. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):597–9

Effect size and power for clinical trials that measure years of healthy life. Diehr P, et al. **Stat Med** 1997 Jun 15; 16(11):1211–23

Health status of individuals with mild stroke. Duncan PW, et al. **Stroke** 1997 Apr;28(4):740–5

Senegal 1992–93: results from the demographic and health survey. **Stud Fam Plann** 1995 Nov–Dec;26(6):368–72

Progress towards the year 2000: assessing the health status of minorities in Texas. Friedman C. **Tex Med** 1996 Oct; 92(10):53–8

Health perceptions and treatment adherence in adults with cystic fibrosis. Abbott J, et al. **Thorax** 1996 Dec; 51(12):1233–8

Suspended particulate matter and health: new light on an old problem [editorial] Maynard RL, et al. **Thorax** 1996 Dec;51(12):1174–6

Strategic elements of ATSDR's Great Lakes Human Health Effects Research Program. DeRosa CT, et al. **Toxicol Ind Health** 1996 May–Aug;12(3–4):315–25

Public health consequences of hazardous substance releases. Hall HI, et al. **Toxicol Ind Health** 1996 Mar–Apr; 12(2):289–93 (4 ref.)

Reliability of proxy information about the health effects of exposure to hazardous waste incineration. Hornung CA, et al. **Toxicol Ind Health** 1996 Mar–Apr;12(2):245–54

A community-based epidemiologic study of acute health effects from a metam-sodium spill on California's Sacramento River. Kreutzer RA, et al. **Toxicol Ind Health** 1996 Mar–Apr;12(2):267–75

Evaluation of the potential living kidney donor. Veitch PS. **Transplant Proc** 1996 Dec;28(6):3553–5

Use of semen as biopsy material for assessment of health status of the stallion reproductive tract. Veeramachaneni DN, et al. **Vet Clin North Am Equine Pract** 1996 Apr; 12(1):101–10 (6 ref.)

Effects of chromium on health status, blood neutrophil phagocytosis and in vitro lymphocyte blastogenesis of dairy cows. Chang X, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1–2):37–52

Biosecurity systems and animal health [letter] Blackwell M. **Vet Rec** 1997 Jun 14;140(24):634–5

Health of dairy herds converting to organic farming [letter; comment] Day CE. **Vet Rec** 1996 Sep 14;139(11):267. Comment on: Vet Rec 1996 Aug 10;139(6):141–2.

Body condition score, health, yield and fertility in diary cows. Markusfeld O, et al. **Vet Rec** 1997 Jul 19;141(3):67–72

Health and selected socioeconomic characteristics of the family: United States, 1988–90. Collins JG, et al. **Vital Health Stat 10** 1996 Dec;(195):i–vi, 1–85

Solar radiation and human health. **West Indian Med J** 1996 Dec;45(4):129–30

Immigrating unaccompanied minors—a neglected minority? [letter] Nadeau K, et al. **West J Med** 1997 Mar;166(3):221–2

Use of a screening instrument in women's health care: detecting relationships among victimization history, psychological distress, and medical complaints. Read JP, et al. **Women Health** 1997;25(3):1–17

Gender differences in health-related quality of life among postmyocardial infarction patients: brief report. CAST Investigators. Cardiac Arrhythmia Suppression Trials. Shumaker SA, et al. **Womens Health** 1997 Spring;3(1):53–60

Preventive health practices and perceived health status among women over 50. Lane MJ, et al. **Womens Health Issues** 1996 Sep–Oct;6(5):279–85

Progress towards health for all: third monitoring report. **World Health Stat Q** 1995;48(3–4):173–306

Health conditions among workers who participated in the cleanup of the Chernobyl accident. Kamarli Z, et al. **World Health Stat Q** 1996;49(1):29–31

Relationships between health and weight loss during lactation and between health and ability to return to oestrus after weaning in primiparous sows. Sterning M, et al. **Zentralbl Veterinarmed A** 1997 Jul;44(5):301–11

[A health status study of the population subjected to combined exposures to ionizing and nonionizing radiation factors] Paskalev Z, et al. **Probl Khig** 1996;21:131–4 (Eng. Abstr.) **(Bul)**

[Analysis on the health status of residents from Diseases Surveillance Points in Gansu Province] Meng L, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1995 Dec; 16(6):362–4 (Eng. Abstr.) **(Chi)**

[Investigation of health status in workers exposed to low-level benzene] Zhang B. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):164–6 (Eng. Abstr.) **(Chi)**

[Harmfulness of obesity in children to their health] Zhang H, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 Mar; 30(2):77–9 (Eng. Abstr.) **(Chi)**

[Status and strategy of parasitosis control in preventive health care in China] Xu L, et al. **Chung Kuo Chi Sheng Chung Hsueh Yu Chi Sheng Chung Ping Tsa Chih** 1995;13(4):264–8 (Eng. Abstr.) **(Chi)**

[Significance of intentional weight loss on health] Heitmann BL, et al. **Ugeskr Laeger** 1997 Jun 23;159(26):4099–104 (38 ref.) (Eng. Abstr.) **(Dan)**

[Average length of life and health status of Danes towards the year 2000 (editorial)] Kamper-Jørgensen F. **Ugeskr Laeger** 1997 Jun 23;159(26):4085–6 **(Dan)**

[Somatic illness in psychiatric patients] Madsen AL, et al. **Ugeskr Laeger** 1997 Jul 14;159(29):4508–11 (Eng. Abstr.) **(Dan)**

[Salt—an analysis of the connection between intake and health] Pedersen OB, et al. **Ugeskr Laeger** 1996 Nov 4; 158(45):6415–20 (40 ref.) (Eng. Abstr.) **(Dan)**

[Sex differences in perceived health (see comments)] Gijsbers van Wijk CM, et al. **Ned Tijdschr Geneeskd** 1997 Feb 8; 141(6):283–7 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Apr 19;141(16):794. **(Dut)**

[The relationship between marital status and health] Joung IM. **Ned Tijdschr Geneeskd** 1997 Feb 8;141(6):277–82 (Eng. Abstr.) **(Dut)**

[Home visits by community health nurses can contribute to the family practitioner's knowledge of elderly patients] Stalenhoef PA, et al. **Ned Tijdschr Geneeskd** 1996 Dec 7; 140(49):2464–7 (Eng. Abstr.) **(Dut)**

[Colombia 1996: social and health situation] Botero D. **Med Trop (Mars)** 1996;56(2):123–8 (12 ref.) **(Fre)**

[Vanuatu: recent aspects of an ex-condominium] Bourée P. **Med Trop (Mars)** 1996;56(3):225–30 **(Fre)**

[Senegal: regionalization, a spring-board for health] Mane I, et al. **Med Trop (Mars)** 1997;57(2):127–35 (11 ref.) **(Fre)**

[Socioeconomic categories and mortality] Ducimetière P. **Rev Epidemiol Sante Publique** 1997 Jun;45(3):263–4 **(Fre)**

[EDEN (Study of the Development of Neonates:) the health of newborn infants in Vaud and risk of chronic disorders] Addor V, et al. **Rev Med Suisse Romande** 1996 Oct; 116(10):845–53 **(Fre)**

[Eating behavior of 12–16-year olds of French-speaking Valais: cross-sectional survey among 962 secondary students] Chastonay P, et al. **Soz Praventivmed** 1996; 41(5):280–7 (Eng. Abstr.) **(Fre)**

[Description of a patient profile of ambulatory physical medicine facilities] Wiesinger GF, et al. **Acta Med Austriaca** 1996;23(5):147–51 (Eng. Abstr.) **(Ger)**

[Assessment of health related quality of life with the SF-36 Health Survey] Bullinger M. **Rehabilitation (Stuttg)** 1996 Aug;35(3):XVII–XXVII; quiz XXVII–XXIX (Eng. Abstr.) **(Ger)**

[Migration and health] Junghanss T. **Schweiz Rundsch Med Prax** 1997 May 7;86(19):785–7 **(Ger)**

[Initial health report on medical care: a study from Cologne presents extensive statistical material] **Soz Praventivmed** 1996;41(5):324–6 **(Ger)**

[Income, health, and health services utilization in Germany 1992] Winkelhake O, et al. **Soz Praventivmed** 1997; 42(1):3–10 (Eng. Abstr.) **(Ger)**

[Comparative evaluation of a German version of the Health Assessment Questionnaire and the Hannover Functional Capacity Questionnaire] Lautenschläger J, et al. **Z Rheumatol** 1997 May–Jun;56(3):144–55 (Eng. Abstr.) **(Ger)**

[Health status of adolescents: what relations with family image? Adolescents Work Group] Villani S, et al. **Epidemiol Psichiatr Soc** 1997 Jan–Apr;6(1):59–68 (Eng. Abstr.) **(Ita)**

[Quality and health: a new dimension for promoting an ethical culture of wider scope] Zuppiroli A. **G Ital Cardiol** 1996 Oct;26(10):1231–5 **(Ita)**

[The health and social problems of immigrant children] Viviano GG, et al. **Pediatr Med Chir** 1996 May–Jun; 18(3):289–93 (Eng. Abstr.) **(Ita)**

[Risk for falls in the elderly. Role of activities of daily living and of the subjective assessment of health status. A case-control study] Gialloreti LE, et al. **Recenti Prog Med** 1996 Sep;87(9):405–11 (Eng. Abstr.) **(Ita)**

[A consideration on the concept of health] Ikuta K. **Nippon Koshu Eisei Zasshi** 1996 Dec;43(12):1005–8 **(Jpn)**

[Health status, social networks and support systems of so called old old in a population-based comparative study of residents ages 69–74 and 75–80] Kishi R, et al. **Nippon Koshu Eisei Zasshi** 1996 Dec;43(12):1009–23 (Eng. Abstr.) **(Jpn)**

[Self-assessed quality of mastication in relation to remaining teeth and self-assessed health status in elderly persons] Masamura K, et al. **Nippon Koshu Eisei Zasshi** 1996 Sep; 43(9):835–43 (Eng. Abstr.) **(Jpn)**

[Caregiver burden and subjective health level in primary caregivers of stroke patients] Usuda S, et al. **Nippon Koshu Eisei Zasshi** 1996 Sep;43(9):854–63 (Eng. Abstr.) **(Jpn)**

[A questionnaire study on health administration in small enterprises in a rural region] Futatsuka M, et al. **Sangyo Eiseigaku Zasshi** 1996 Nov;38(6):262–6 (Eng. Abstr.) **(Jpn)**

[Assessment of one's own functional status. COOP-WONCA questionnaire charts in clinical practice and research] Bentsen BG, et al. **Tidsskr Nor Laegeforen** 1997 May 10; 117(12):1790–3 (Eng. Abstr.) **(Nor)**

[General practitioners, community physicians and hospital physicians—how different are they?] Førde R, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2781–6 (Eng. Abstr.) **(Nor)**

[Health status survey in a district with many immigrant children] Grøholt EK, et al. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1086–9 (Eng. Abstr.) **(Nor)**

[Immigrants and health (letter; comment)] Kristiansen BE. **Tidsskr Nor Laegeforen** 1997 Aug 20;117(19):2839. Comment on: Tidsskr Nor Laegeforen 1997 Jun 30;117(17):2435. **(Nor)**

[Healthier population or stricter physicians? An analysis of reduced sick leave in a small community] Lappegard O, et al. **Tidsskr Nor Laegeforen** 1997 Apr 20;117(10):1447–50 (Eng. Abstr.) **(Nor)**

[Research on immigrants and health. Curiosity or benefit? (see comments)] Stoltenberg C. **Tidsskr Nor Laegeforen** 1997 Jun 30;117(17):2435. Comment in: Tidsskr Nor Laegeforen 1997 Aug 20;117(19):2839. **(Nor)**

[The influence of tonsillectomy on the health status and the development of dental arch in children with obstructive sleep apnea syndrome] Powajbo K. **Otolaryngol Pol** 1996; 50(5):561–3 **(Pol)**

[Health behaviors in Portugal. Epidemiological studies] do Carmo I. **Acta Med Port** 1997 Jun–Jul;10(6–7):433–45 (Eng. Abstr.) **(Por)**

[Physiological and hygienic evaluation of the effectiveness of individual-differential teaching of pupils] Antropova MV, et al. **Gig Sanit** 1997 Jan–Feb;(1):24–6 **(Rus)**

[The epidemiological health situation in the Russian Federation: its status and the outlook] Beliaev EN, et al. **Gig Sanit** 1996 May–Jun;(3):3–6 **(Rus)**

[The validation of a system of indices for social hygiene monitoring at the local level] Bol'shakov AM, et al. **Gig Sanit** 1997 Mar–Apr;(2):29–32 **(Rus)**

[The health status of children in the new type of educational institutions] Chubirko MI, et al. **Gig Sanit** 1997 Mar–Apr; (2):21–3 (Eng. Abstr.) **(Rus)**

[Role of individual variability of the body in the formation of students' health] Filatov OM, et al. **Gig Sanit** 1996 Nov–Dec;(6):29–32 **(Rus)**

[Evaluation of the sanitary and hygienic well-being at preschool institutions] Iakubova ISh, et al. **Gig Sanit** 1997 Jan–Feb;(1):26–9 **(Rus)**

[The effect of lessons using computers on the health status of preschoolers] Izotova TA. **Gig Sanit** 1996 May–Jun; (3):29–31 **(Rus)**

[Health status of mining technical school students under present ecological conditions of Donets Basin] Kharkovenko NM, et al. **Gig Sanit** 1997 May–Jun;(3):30–3 (Eng. Abstr.) **(Rus)**

[The physical development, health status and "school maturity" of 6-year-old children (based on data from Shatura, Moscow Province)] Kuchma VR, et al. **Gig Sanit** 1996 May–Jun;(3):27–9 (Eng. Abstr.) **(Rus)**

[Health status of school children in experimental teaching] Makarova VI, et al. **Gig Sanit** 1997 May–Jun;(3):33–6 **(Rus)**

[Specific features of conducting medical and psychophysiological selection of occupation] Novichkova NI, et al. **Gig Sanit** 1996 Sep–Oct;(5):15–7 **(Rus)**

[Hygienic aspects of health of children living in areas with developed gas chemical industries (review)] Savin VP, et al. **Gig Sanit** 1996 Jul–Aug;(4):24–7 (45 ref.) **(Rus)**

[The work conditions and health status of women working in the gas-processing industry] Setko NP, et al. **Gig Sanit** 1997 Mar–Apr;(2):14–6 **(Rus)**

[Methodological aspects in the study and assessment of the health status of the population] Sidorenko GI, et al. **Gig Sanit** 1997 Mar–Apr;(2):55–8 **(Rus)**

[Cytological status of mucous membranes as a criterion of ecological risk] Sidorenko GI, et al. **Gig Sanit** 1997 May–Jun;(3):56–7 **(Rus)**

[Effects of climate and smoking on human health in the North] Solonin IuG. **Gig Sanit** 1997 Jan–Feb;(1):46–8 **(Rus)**

[Health and Disease as clinician sees them] Malov IS. **Klin Med (Mosk)** 1997;75(1):16–8 (11 ref.) **(Rus)**

[The characteristics of the body's functional status and the state of the health of pupils in mining trade schools in an industrial zone] Kharkovenko NM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):6–11 (Eng. Abstr.) **(Rus)**

[Methodological and deliberative bases for using official statistical medical information for supporting population health monitoring in Ukraine] Khizhniak NI, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):170–3 **(Rus)**

[Enterobiasis: the effect of the causative agent on the health status of children] Markin AV. **Med Parazitol (Mosk)** 1996 Apr–Jun;(2):50–4 (79 ref.) **(Rus)**

[Significance of the determination of neuromediators in prognostication of workers' health status] Dobrynina ZB, et al. **Med Tr Prom Ekol** 1997;(6):45–7 **(Rus)**

[New methodological approaches to the study and assessment of health status in occupational medicine] Izmerov NF, et al. **Med Tr Prom Ekol** 1997;(3):1–6 (Eng. Abstr.) **(Rus)**

[Changes in health status of fishermen during long-term autonomous sailing in the tropical zone of the Atlantic Ocean] Lobenko AA, et al. **Med Tr Prom Ekol** 1997; (1):45–8 **(Rus)**

[Present-day occupational hygiene and health status of college students] Minnibaev TSh, et al. **Med Tr Prom Ekol** 1996;(10):15–8 (Eng. Abstr.) **(Rus)**

[Health status of children and adolescents in Tarko-Sale settlement of Yamalo-Nenetskii Autonomous County] Sukhanova NN. **Med Tr Prom Ekol** 1996;(5):32–5 **(Rus)**

[The evaluation of the health of the working-age population] Belikov VV. **Probl Sotsialnoi Gig Istor Med** 1996 Jul–Aug; (4):6–8 (Eng. Abstr.) **(Rus)**

[Medical and social problems of the disabled and persons of retirement age in the Perm region] Boev VS, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Mar–Apr;(2):15–9 (Eng. Abstr.) **(Rus)**

[Health status and life styles of young people] Diukareva AM. **Probl Sotsialnoi Gig Istor Med** 1995 Mar–Apr;(2):23–6 (Eng. Abstr.) **(Rus)**

[The aspects of health of forced migrants in the Western

Siberia] Doshchilin YuP, et al.
Probl Sotsialnoi Gig Istor Med 1997 Jan-Feb;(1):26-30 (Eng. Abstr.) **(Rus)**

[Social-hygienic problems of family in the Extreme North] Grinina OV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Nov-Dec;(6):6-10 (Eng. Abstr.) **(Rus)**

[Health and life style of families among various social groups of the population with young children] Grinina OV, et al. **Probl Sotsialnoi Gig Istor Med** 1996 Jan-Feb;(1):6-9 (Eng. Abstr.) **(Rus)**

[Multi-factorial medico-social study of health and needs of a family] Kicha DI. **Probl Sotsialnoi Gig Istor Med** 1994 May-Jun;(3):19-22 (Eng. Abstr.) **(Rus)**

[Health status and standards of life among women in contemporary Russia] Maksimova TM, et al.
Probl Sotsialnoi Gig Istor Med 1994 May-Jun;(3):10-6 (Eng. Abstr.) **(Rus)**

[Population health in programs of medical ecological screening] Ovcharov VK, et al.
Probl Sotsialnoi Gig Istor Med 1994 Nov-Dec;(6):7-10 (Eng. Abstr.) **(Rus)**

[The regional characteristics of the health of the population and policy in the public health field] Poliakov IV, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Jan-Feb;(1):24-6 (Eng. Abstr.) **(Rus)**

[Public health status and the course of economic reforms in China] Shchepin OP, et al.
Probl Sotsialnoi Gig Istor Med 1994 May-Jun;(3):32-7 **(Rus)**

[Social-hygienic features of health, life conditions and medical-social assistance to the veterans and disabled veterans of the Great patriotic war in Russia] Shchepin OP, et al. **Probl Sotsialnoi Gig Istor Med** 1995 Sep-Oct;(5):6-12 (Eng. Abstr.) **(Rus)**

[Relations within the family as a health factor for adolescent girls] Sidorov GA, et al.
Probl Sotsialnoi Gig Istor Med 1995 Jan-Feb;(1):26-8 (Eng. Abstr.) **(Rus)**

[The results of a comprehensive evaluation of the health status of the population, of public health resources and of the socioeconomic status of the territories of the Russian Federation] Tarasova GV, et al.
Probl Sotsialnoi Gig Istor Med 1996 Jul-Aug;(4):3-6 (Eng. Abstr.) **(Rus)**

[The effect of smoking on the general somatic and stomatological status of the population] Alimskiĭ AV, et al. **Stomatologiia (Mosk)** 1996;75(2):70-9 (168 ref.) **(Rus)**

[Biomedical aspects of health preservation strategy: role of catecholaminergic neuronal populations] Iarygin VN, et al. **Vestn Ross Akad Med Nauk** 1997;(4):60-2 (Eng. Abstr.) **(Rus)**

[Health status of the population as a criterion in the assessment of the quality of life] Lebedeva NV, et al.
Vestn Ross Akad Med Nauk 1997;(4):11-4 (Eng. Abstr.) **(Rus)**

[Present day socioeconomic conditions and the populations health] Ovcharov VK. **Vestn Ross Akad Med Nauk** 1997;(1):51-9 (18 ref.) (Eng. Abstr.) **(Rus)**

[The health of the population of the Russian Federation: the problems and the outlook] Shchepin OP.
Vestn Ross Akad Med Nauk 1996;(6):11-5 (Eng. Abstr.) **(Rus)**

[The effect of the factors of a radiation and nonradiation nature on the health of the garrison population stationed in a radioactively contaminated area] Komarevtsev VN, et al. **Voen Med Zh** 1996 Jun;317(6):22-5 **(Rus)**

[An analysis of the reasons for an unjustified call-up for military service based on health status] Kulikov VV, et al. **Voen Med Zh** 1997 Apr;318(4):11-3 **(Rus)**

[New requirements for civilian health status in the Regulation on Military Medical Expertise] Liufing AA, et al.
Voen Med Zh 1996 Sep;317(9):14-8 **(Rus)**

[The assessment of the health status of troop personnel--a basis for the planning of measures in disease prevention] Mel'nichenko PI. **Voen Med Zh** 1996 Aug;317(8):4-14 **(Rus)**

[Nutrition and health status of schoolchildren in Brianskaia region, residing in territories polluted by radionuclides] Kon' Ila, et al. **Vopr Pitan** 1996;(2):17-21 (Eng. Abstr.) **(Rus)**

[The mental health status of urban adolescents with nondelinquent and delinquent behaviors] Derbenev DP.
Zh Nevrol Psikhiatr Im S S Korsakova 1997;97(8):48-52 (Eng. Abstr.) **(Rus)**

[Migration and health (editorial)] Litvinjenko S.
Srp Arh Celok Lek 1997 Jul-Aug;125(7-8):191-6 (Eng. Abstr.) **(Scc)**

[Health fitness of professional drivers and recurrence of alcoholism] Rossi-Gašparović D, et al.
Arh Hig Rada Toksikol 1996 Jun;47(2):177-88 (Eng. Abstr.) **(Scr)**

[Convergence in health: dream or reality?] Comín Novella D. **Gac Sanit** 1997 Jan-Feb;11(1):33-42 (Eng. Abstr.) **(Spa)**

[Social support and perceived health status in non-institutionalized population over 60 years of age] Ferrando J, et al. **Gac Sanit** 1996 Jul-Aug;10(55):174-82 (Eng. Abstr.) **(Spa)**

[Out-of-home work. Does women's health improve? (editorial)] Escribà Agüir V. **Med Clin (Barc)** 1997 Apr 19;108(15):580-1 **(Spa)**

[Health-related quality of life: a new parameter to keep in mind (editorial; comment)] Esteve M, et al.
Med Clin (Barc) 1997 Mar 29;108(12):458-9. Comment on: Med Clin (Barc) 1997 Mar 29;108(12):446-51. **(Spa)**

[Clinical results and perceived health among patients with hip prosthesis] Martí Valls J, et al. **Med Clin (Barc)** 1997 May 10;108(18):691-5 (Eng. Abstr.) **(Spa)**

[Investigation and action concerning health inequalities] Regidor E. **Med Clin (Barc)** 1997 May 24;108(20):784-90 **(Spa)**

[In silversmith house... (editorial; comment)] Roca-Cusachs Coll A. **Med Clin (Barc)** 1997 Apr 26;108(16):613-4. Comment on: Med Clin (Barc) 1997 Apr 26;108(16):604-7. **(Spa)**

[Influence of paid work on the perceived health state in women] Rohlfs I, et al. **Med Clin (Barc)** 1997 Apr 19; 108(15):566-71 (Eng. Abstr.) **(Spa)**

[Effects of chemical air pollution on health (editorial; comment)] Sanz-Gallén P, et al. **Med Clin (Barc)** 1997 Apr 26;108(16):615-7. Comment on: Med Clin (Barc) 1997 Apr 26;108(16):601-3. **(Spa)**

[Scientific Commission for the Study of Social Inequities of Health in Spain (editorial)] Navarro López V, et al.
Rev Esp Salud Publica 1996 Sep-Dec;70(5-6):503-4 **(Spa)**

[Social inequities of health in Spain. Report of the Scientific Commission for the Study of Social Inequities in Health in Spain] Navarro López V, et al.
Rev Esp Salud Publica 1996 Sep-Dec;70(5-6):505-636 (Eng. Abstr.) **(Spa)**

[Forget old findings on health inequality! Concentrate on research!] Allander E. **Lakartidningen** 1996 Nov 6; 93(45):3988 **(Swe)**

[Women's health deteriorated since 1993] Elofsson S, et al. **Lakartidningen** 1996 Sep 18;93(38):3233-6 **(Swe)**

[Contribution of health services to public health. Longer life, quality of life and functional capacity] Rosén M.
Lakartidningen 1997 Sep 3;94(36):3065-71 (32 ref.) **(Swe)**

[The health assessment of the population of Ukraine from the viewpoint of potential demography and the means for a possible influence on its indices] Bobrov VO, et al.
Lik Sprava 1996 Mar-Apr;(3-4):168-70 **(Ukr)**

HEALTH STATUS INDEX see **HEALTH STATUS INDICATORS**

HEALTH STATUS INDICATORS

The SF-36 questionnaire: a convenient way to assess quality of life in angina pectoris patients. Charlier L, et al.
Acta Cardiol 1997;52(3):247-60

The importance of operational factors for the interpretation of indicators in the Hansen's disease endemic in Brazil. Andrade V, et al. **Acta Leprol** 1997;10(3):131-9

Use of the Nottingham Health Profile for measuring health status of patients in methadone maintenance treatment. Torrens M, et al. **Addiction** 1997 Jun;92(6):707-16

Use of dietetic-specific nutritional diagnostic codes in clinical reasoning relevant to the nutritional management of core clinical outcome indicators in hemodialysis patients. Kelly MP. **Adv Ren Replace Ther** 1997 Apr;4(2):125-35 (87 ref.)

Measuring health status in patients with skeletal metastases treated by surgery. Clohisy DR, et al.
Am J Clin Oncol 1997 Aug;20(4):424-8

The error of using returns-to-work to measure the outcomes of health care. Baldwin ML, et al. **Am J Ind Med** 1996 Jun;29(6):632-41

Evaluation of symptom surveys for occupational musculoskeletal disorders. Baron S, et al.
Am J Ind Med 1996 Jun;29(6):609-17

Measuring health in injured workers: a cross-sectional comparison of five generic health status instruments in workers with musculoskeletal injuries. Beaton DE, et al.
Am J Ind Med 1996 Jun;29(6):618-31

Development of an upper extremity outcome measure: the DASH (disabilities of the arm, shoulder and hand) [corrected]. The Upper Extremity Collaborative Group (UECG) [published erratum appears in Am J Ind Med 1996 Sep;30(3):372] Hudak PL, et al. **Am J Ind Med** 1996 Jun; 29(6):602-8

Review of applicability of existing functional status measures to the study of workers with musculoskeletal disorders of the neck and upper limb. Stock SR, et al.
Am J Ind Med 1996 Jun;29(6):679-88 (102 ref.)

Assessment of health-related quality of life after corneal transplantation. Musch DC, et al. **Am J Ophthalmol** 1997 Jul;124(1):1-8

Comparing and contrasting two orthodontic indices, the Index of Orthodontic Treatment need and the Dental Aesthetic Index [published erratum appears in Am J Orthod Dentofacial Orthop 1997 Apr;111(4):454] Jenny J, et al. **Am J Orthod Dentofacial Orthop** 1996 Oct; 110(4):410-6

Profiles of functional recovery in fifty traumatically brain-injured patients after acute rehabilitation. Davis CH, et al. **Am J Phys Med Rehabil** 1997 May-Jun;76(3):213-8

Functional outcome of quadruple amputees with end-stage renal disease. Garrison SJ, et al.
Am J Phys Med Rehabil 1997 May-Jun;76(3):226-30

Rehabilitation after cardiac transplantation. Case series and literature review. Joshi A, et al.
Am J Phys Med Rehabil 1997 May-Jun;76(3):249-54

Determinants of functional health of low-income black women with osteoarthritis. Martin JC. **Am J Prev Med** 1996 Sep-Oct;12(5):430-6

Public health performance related to selected health status and risk measures. Schenck SE, et al. **Am J Prev Med** 1995 Nov-Dec;11(6 Suppl):55-7

Evaluating the performance of public health agencies: information needs. Studnicki J. **Am J Prev Med** 1995 Nov-Dec;11(6 Suppl):74-80

Can ASA grade or Goldman's cardiac risk index predict peri-operative mortality? A study of 16,227 patients. Prause G, et al. **Anaesthesia** 1997 Mar;52(3):203-6

Health status of well vs ill adolescents. Starfield B, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1249-56

The asthma health outcome indicators study. Smith MA, et al. **Aust N Z J Public Health** 1996 Feb;20(1):69-75

Number of chronic conditions and professional longevity of aviators. Vlassov VV. **Aviat Space Environ Med** 1997 May; 68(5):373-7

Health and the life course: why safety nets matter. Bartley M, et al. **BMJ** 1997 Apr 19;314(7088):1194-6

Poverty or income inequality as predictor of mortality: longitudinal cohort study [see comments] Fiscella K, et al. **BMJ** 1997 Jun 14;314(7096):1724-7. Comment in: BMJ 1997 Jun 14;314(7096):1727-8.

Socioeconomic determinants of health. The contribution of nutrition to inequalities in health. James WP, et al.
BMJ 1997 May 24;314(7093):1545-9 (31 ref.)

Commentary: income inequality summarises the health burden of individual relative deprivation [comment] Wilkinson RG. **BMJ** 1997 Jun 14;314(7096):1727-8. Comment on: BMJ 1997 Jun 14;314(7096):1724-7.

Socioeconomic determinants of health. Health inequalities: relative or absolute material standards? Wilkinson RG.
BMJ 1997 Feb 22;314(7080):591-5

Life expectancy, economic inequality, homicide, and reproductive timing in Chicago neighbourhoods. Wilson M, et al. **BMJ** 1997 Apr 26;314(7089):1271-4

ASA classification and perioperative variables: graded anaesthesia score? [letter; comment] Lake AP, et al.
Br J Anaesth 1997 Feb;78(2):228-9. Comment on: Br J Anaesth 1996 Aug;77(2):217-22.

ASA classification and perioperative variables as predictors of postoperative outcome [letter; comment] Magi E.
Br J Anaesth 1997 Feb;78(2):228. Comment on: Br J Anaesth 1996 Aug;77(2):217-22.

ASA classification and perioperative variables as predictors of postoperative outcome [see comments] Wolters U, et al. **Br J Anaesth** 1996 Aug;77(2):217-22. Comment in: Br J Anaesth 1997 Feb;78(2):228. Comment in: Br J Anaesth 1997 Feb;78(2):228-9.

The Nottingham Health Profile as a measure of disease activity and outcome in rheumatoid arthritis. Houssien DA, et al. **Br J Rheumatol** 1997 Jan;36(1):69-73

Health expectancy calculations: a novel approach to studying population health in Bulgaria. Mutafova M, et al.
Bull World Health Organ 1997;75(2):147-53

The CIAR vision of the determinants of health: a critique. Critical Social Science and Health Group. Coburn D, et al. **Can J Public Health** 1996 Sep-Oct;87(5):308-10

Putting the pieces together [editorial] Draper R.
Can J Public Health 1995 Nov-Dec;86(6):365-7 **(Eng, Fre)**

Health status of newcomers. Matuk LC.
Can J Public Health 1996 Jan-Feb;87(1):52-5

Self-reported comprehensive health status of adult brain tumor patients using the Health Utilities Index. Whitton AC, et al. **Cancer** 1997 Jul 15;80(2):258-65

Assessing risk in families affected by substance abuse. Olsen LJ, et al. **Child Abuse Negl** 1996 Sep;20(9):833-42

The development and validation of a measure of parent-reported child health and morbidity: the Warwick Child Health and Morbidity Profile. Spencer NJ, et al.
Child Care Health Dev 1996 Nov;22(6):367-79

Applying functional status measures to individual patients [editorial] Stratford PW. **Clin J Sport Med** 1997 Jul;7(3):226

Outcome of distal radius fractures using the short form 36 health survey. Fernandez JJ, et al. **Clin Orthop** 1997 Aug; (341):36-41

Evaluating quality-of-life and health status instruments: development of scientific review criteria. Lohr KN, et al.
Clin Ther 1996 Sep-Oct;18(5):979-92

Development of an oral health indicator in infants. Kawabata K, et al. **Community Dent Health** 1997 Jun;14(2):79-83

Improving dental health status indicators for evaluation. Lewis JM. **Community Dent Oral Epidemiol** 1996 Feb; 24(1):32-6

Using subjective oral health status indicators to screen for dental care needs in older adults. Locker D, et al.
Community Dent Oral Epidemiol 1996 Dec;24(6):398-402

The cardiac health profile: content, reliability and validity of a new disease-specific quality of life questionnaire. Währborg P, et al. **Coron Artery Dis** 1996 Nov;7(11):823-9

Validation of the Dutch translation of the Inflammatory Bowel Disease Questionnaire (IBDQ): a health-related quality of life questionnaire in inflammatory bowel disease. Russel MG, et al. **Digestion** 1997;58(3):282-8

A community-oriented programme for rehabilitation of persons with arthritis. Ronen R, et al. **Disabil Rehabil** 1996 Sep;18(9):476-81

Health information for district level planning: a cross-sectional household survey in rural Kenya. Nordberg E, et al. **East Afr Med J** 1996 Jun;73(6):364-9

Risk profiles for non-communicable diseases in rural and urban schoolchildren in the Republic of Cameroon. Proctor MH, et al. **Ethn Dis** 1996 Autumn;6(3-4):235-43

Racism and health: a research agenda [editorial] Williams DR. **Ethn Dis** 1996 Winter-Spring;6(1-2):1-8

Development of an EORTC questionnaire module to be used in quality of life assessment for patients with oesophageal cancer. The EORTC Quality of Life Study Group. Blazeby JM, et al. **Eur J Cancer** 1996 Oct;32A(11):1912-7

Comparison of two preoperative indices to predict perioperative mortality in non-cardiac thoracic surgery. Prause G, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):670-5

Frequency of radiographic procedures in an urban 62-year-old population in relation to general health, body build, bone mineral content, locomotor discomfort, occupational work load and socio-economic factors. Bergenudd H, et al. **Eur J Epidemiol** 1996 Jun;12(3):279-84

Quality of life analysis in patients with lower limb ischaemia: suggestions for European standardisation. Chetter IC, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):597-604

A risk-assessment tool for integrated reproductive health services. Cates W Jr. **Fam Plann Perspect** 1997 Jan-Feb; 29(1):41-3 (12 ref.)

Selection of key community descriptors for community-orientated primary care. Zyzanski SJ, et al. **Fam Pract** 1996 Jun;13(3):280-8

Health-related quality of life after ileoanal pull-through evaluation and assessment of new health status measures. Provenzale D, et al. **Gastroenterology** 1997 Jul;113(1):7-14

A new instrument to assess the long-term quality of life effects from migraine: development and psychometric testing of the MSQOL. Wagner TH, et al. **Headache** 1996 Sep;36(8):484-92

Where to be born? A normative approach of life duration inequalities in the world. Attias E, et al. **Health Econ** 1996 Nov-Dec;5(6):559-72

Homing in on the homeless: assessing the physical health of homeless adults in Los Angeles County using an original method to obtain physical examination data in a survey. Kleinman LC, et al. **Health Serv Res** 1996 Dec;31(5):533-49

Measuring the need for medical care in an ethnically diverse population. Osmond DH, et al. **Health Serv Res** 1996 Dec; 31(5):551-71

Public health. We're getting better all the time [news] **Hosp Health Netw** 1996 Nov 20;70(22):13

Poverty and its measurement—concerns and constraints [editorial] Bansal RD, et al. **Indian J Public Health** 1996 Oct-Dec;40(4):98-100

The Neonatal Neurobiologic Risk Score: does it predict outcome in very premature infants? Contractor CP, et al. **Indian Pediatr** 1996 Feb;33(2):95-101

Recommendations of the conference "Measuring Social Inequalities in Health". Sponsored by the National Institutes of Health, September 28-30, 1994. **Int J Health Serv** 1996; 26(3):521-7

Integrating nonemployment into research on health inequalities. Arber S. **Int J Health Serv** 1996;26(3):445-81

Race/ethnicity and socioeconomic status: measurement and methodological issues. Williams DR. **Int J Health Serv** 1996;26(3):483-505 (81 ref.)

Health status assessment and managed care competition: are we on target?[comment] Apolone G, et al. **Int J Qual Health Care** 1996 Apr;8(2):105-6. Comment on: Int J Qual Health Care 1996 Apr;8(2):115-23.

The hubris of health status measurement: a clarification of its role in the assessment of medical care [see comments] Goldfield N. **Int J Qual Health Care** 1996 Apr;8(2):115-23 . Comment in: Int J Qual Health Care 1996 Apr;8(2):101-4. Comment in: Int J Qual Health Care 1996 Apr;8(2):105-6. Comment in: Int J Qual Health Care 1996 Apr;8(2):107-9. Comment in: Int J Qual Health Care 1996 Apr;8(2):111-3.

Health status assessment: the integrating force of US market-based reform [see comments] Lansky D. **Int J Qual Health Care** 1996 Apr;8(2):111-3. Comment in: Int J Qual Health Care 1996 Apr;8(2):115-23.

Health status measurement and the assessment of medical care [comment] Mant J, et al. **Int J Qual Health Care** 1996 Apr;8(2):107-9. Comment on: Int J Qual Health Care 1996 Apr;8(2):115-23.

Quality of life 6 months after intensive care: results of a prospective multicenter study using a generic health status scale and a satisfaction scale. Hurel D, et al. **Intensive Care Med** 1997 Mar;23(3):331-7

Demographic and epidemiologic features of female adolescents in Turkey. Vicdan K, et al. **J Adolesc Health** 1996 Jan;18(1):54-8

Assessment of quality of life with the Nottingham Health Profile among patients with coronary heart disease. Lukkarinen H, et al. **J Adv Nurs** 1997 Jul;26(1):73-84

Development and validation of a rhinoconjunctivitis and asthma symptom score for use as an outcome measure in clinical trials. Wasserfallen JB, et al. **J Allergy Clin Immunol** 1997 Jul;100(1):16-22

Homelessness and health [editorial; comment] Gelberg L. **J Am Board Fam Pract** 1997 Jan-Feb;10(1):67-71. Comment on: J Am Board Fam Pract 1997 Jan-Feb;10(1):6-12.

The health status of women of color [letter] Felder K. **J Am Med Womens Assoc** 1996 Aug-Oct;51(4):171

The health of American Indian and Alaska Native women. Joe JR. **J Am Med Womens Assoc** 1996 Aug-Oct; 51(4):141-5

Can the western Ontario and McMaster Universities (WOMAC) osteoarthritis index be used to evaluate different hip joints in the same patient? McGrory BJ, et al. **J Arthroplasty** 1996 Oct;11(7):841-4

Comparison of the Musculoskeletal Function Assessment questionnaire with the Short Form-36, the Western Ontario and McMaster Universities Osteoarthritis Index, and the Sickness Impact Profile health-status measures. Martin DP, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1323-35

Detection and prevention of cardiac risk factors: health risk assessment and targeted follow-up in a managed care population [see comments] Zimmerman EM, et al. **J Cardiovasc Nurs** 1996 Oct;11(1):27-38. Comment in: J Cardiovasc Nurs 1996 Oct;11(1):v-vii.

Validation of the EORTC QLQ-C30 quality of life questionnaire through combined qualitative and quantitative assessment of patient-observer agreement. Groenvold M, et al. **J Clin Epidemiol** 1997 Apr; 50(4):441-50

Measuring functional status: cross-sectional and longitudinal associations between performance and self-report (Zutphen Elderly Study 1990-1993). Hoeymans N, et al. **J Clin Epidemiol** 1996 Oct;49(10):1103-10

Evaluation of the MOS SF-36 Physical Functioning Scale (PF-10): II. Comparison of relative precision using Likert and Rasch scoring methods. McHorney CA, et al. **J Clin Epidemiol** 1997 Apr;50(4):451-61

Self-rated health status as a health measure: the predictive value of self-reported health status on the use of physician services and on mortality in the working-age population. Miilunpalo S, et al. **J Clin Epidemiol** 1997 May;50(5):517-28

Are results of the SF-36 health survey and the Nottingham Health Profile similar? A comparison in COPD patients. Quality of Life in COPD Study Group. Prieto L, et al. **J Clin Epidemiol** 1997 Apr;50(4):463-73

Assessing the minimal important difference in symptoms: a comparison of two techniques [see comments] Redelmeier DA, et al. **J Clin Epidemiol** 1996 Nov;49(11):1215-9. Comment in: J Clin Epidemiol 1996 Nov;49(11):1221-2. Comment in: J Clin Epidemiol 1996 Nov;49(11):1223-4.

A comparison of different indices of responsiveness. Wright JG, et al. **J Clin Epidemiol** 1997 Mar;50(3):239-46

Choice of response scale for health measurement: comparison of 4, 5, and 7-point scales and visual analog scale. Nagata C, et al. **J Epidemiol** 1996 Dec;6(4):192-7

Proxies for healthcare need among populations: validation of alternatives—a study in Quebec. Birch S, et al. **J Epidemiol Community Health** 1996 Oct;50(5):564-9

Effect of labour market conditions on reporting of limiting long-term illness and permanent sickness in England and Wales. Haynes R, et al. **J Epidemiol Community Health** 1997 Jun;51(3):283-8

How good is Sullivan's method for monitoring changes in population health expectancies. Mathers CD, et al. **J Epidemiol Community Health** 1997 Feb;51(1):80-6

Quality of life assessment in children: a review of conceptual and methodological issues in multidimensional health status measures. Pal DK. **J Epidemiol Community Health** 1996 Aug;50(4):391-6 (35 ref.)

Prospective versus retrospective measurement of change in health status: a community based study in Geneva, Switzerland. Perneger TV, et al. **J Epidemiol Community Health** 1997 Jun;51(3):320-5

Predicting the workload in urban general practice in The Netherlands from Jarman's indicators of deprivation at patient level. Reijneveld SA. **J Epidemiol Community Health** 1996 Oct;50(5):541-4

Small area statistics as markers for personal social status in the Scottish heart health study. Woodward M. **J Epidemiol Community Health** 1996 Oct;50(5):570-6

Sulfate concentrations as an indicator of ambient particulate matter air pollution for health risk evaluations. Lippmann M, et al. **J Expo Anal Environ Epidemiol** 1996 Apr-Jun; 6(2):123-46 (51 ref.)

Hydrocarbon emissions and health risks from cookstoves in developing countries. Zhang J, et al. **J Expo Anal Environ Epidemiol** 1996 Apr-Jun;6(2):147-61

Health status assessment. Completing the clinical database [editorial; comment] Wu AW, et al. **J Gen Intern Med** 1997 Apr;12(4):254-5. Comment on: J Gen Intern Med 1997 Apr;12(4):203-8.

Measurement of health-related quality of life before and after heart-lung transplantation. Caine N, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1047-58

Some medico-socio-demographic factors and intra-uterine growth retardation. Chhabra S, et al. **J Indian Med Assoc** 1996 Apr;94(4):127-30

The quality of life of persons with chronic fatigue syndrome. Anderson JS, et al. **J Nerv Ment Dis** 1997 Jun;185(6):359-67

Quality of life in multiple sclerosis: the disability and impact profile (DIP). Lankhorst GJ, et al. **J Neurol** 1996 Jun; 243(6):469-74

Patterns of disease among children: a simple and versatile measure of child health in communities. Dugdale AE. **J Paediatr Child Health** 1996 Oct;32(5):400-4

A comparison of measures of disability and health status in people with physical disabilities undergoing vocational rehabilitation. Kelly S, et al. **J Public Health Med** 1996 Jun;18(2):169-74

Setting the stage for health impact assessment. Ratner PA, et al. **J Public Health Policy** 1997;18(1):67-79 (26 ref.)

Orthopaedic surgery outcomes assessment model. Krishnan J, et al. **J Qual Clin Pract** 1997 Jun;17(2):109-16

Quality of life in cystic fibrosis. Abbott J, et al. **J R Soc Med** 1997;90 Suppl 31:37-42 (29 ref.)

Health state utilities in knee replacement surgery: the development and evaluation of McKnee. Bennett KJ, et al. **J Rheumatol** 1997 Sep;24(9):1796-805

Psychosocial measures. Brooks P, et al. **J Rheumatol** 1997 May;24(5):1008-11

The Juvenile Arthritis Quality of Life Questionnaire—development of a new responsive index for juvenile rheumatoid arthritis and juvenile spondyloarthritides. Duffy CM, et al. **J Rheumatol** 1997 Apr;24(4):738-46

"Arthritis specific" global health analog scales assess "generic" health related quality-of-life in patients with rheumatoid arthritis. Fries JF, et al. **J Rheumatol** 1997 Sep; 24(9):1697-702

Association of the Systemic Lupus International Collaborating Clinics/American College of Rheumatology Damage Index with measures of disease activity and health status in patients with systemic lupus erythematosus. Stoll T, et al. **J Rheumatol** 1997 Feb;24(2):309-13

Measures of physical function and emotional well being for young adults with arthritis. Taal E, et al. **J Rheumatol** 1997 May;24(5):994-7

Outcome versus activity in rheumatoid arthritis: a focus blurred [editorial] Zwillich SH. **J Rheumatol** 1997 May; 24(5):826-9

Preliminary development of the School Health Intensity Rating Scale. Burt CJ, et al. **J Sch Health** 1996 Oct; 66(8):286-90

The Youth Health Survey: reliability and validity of an instrument for assessing cardiovascular health habits in adolescents. Gilmer MJ, et al. **J Sch Health** 1996 Mar; 66(3):106-11

Pediatric risk indicator: an objective measurement of childhood injury severity. Tepas JJ 3rd, et al. **J Trauma** 1997 Aug;43(2):258-61; discussion 261-2

Health risk factors and health-seeking behavior in lesbians. White JC, et al. **J Womens Health** 1997 Feb;6(1):103-12

Test-retest performance of a mailed version of the Medical Outcomes Study 36-Item Short-Form Health Survey among older adults. Andresen EM, et al. **Med Care** 1996 Dec;34(12):1165-70

Understanding changes in health status. Is the floor phenomenon merely the last step of the staircase? Baker DW, et al. **Med Care** 1997 Jan;35(1):1-15

An empirical comparison of four generic health status measures. The Nottingham Health Profile, the Medical Outcomes Study 36-item Short-Form Health Survey, the COOP/WONCA charts, and the EuroQol instrument. Essink-Bot ML, et al. **Med Care** 1997 May;35(5):522-37

Palestinian refugees in the West Bank and Gaza Strip: health = development. Husseini AS. **Med Confl Surviv** 1996 Apr-Jun;12(2):131-7

The relationship between descriptive and valuational quality-of-life measures in patients with intermittent claudication. Bosch JL, et al. **Med Decis Making** 1996 Jul-Sep;16(3):217-25 (29 ref.)

Heterogeneity in the relationship between the standard-gamble utility measure and health-status dimensions. Bult JR, et al. **Med Decis Making** 1996 Jul-Sep; 16(3):226-33

Predicting Quality of Well-being scores from the SF-36: results from the Beaver Dam Health Outcomes Study. Fryback DG, et al. **Med Decis Making** 1997 Jan-Mar; 17(1):1-9

A method to elicit utilities for interpersonal comparisons. Holmes AM. **Med Decis Making** 1997 Jan-Mar;17(1):10-20

A criticism of healthy-years equivalents [see comments] Wakker P. **Med Decis Making** 1996 Jul-Sep;16(3):207-14 (30 ref.). Comment in: Med Decis Making 1996 Jul-Sep;16(3):215-6.

Differences in health status among racial and ethnic groups in Rhode Island. Buechner JS. **Med Health R I** 1996 Jul; 79(7):251-4

Health risks among low-income Rhode Island adults [published erratum appears in Med Health R I 1997 Feb;80(2):64] Hesser JE, et al. **Med Health R I** 1997 Jan; 80(1):39-40

Variation in health and health care use by socioeconomic status in Winnipeg, Canada: does the system work well? Yes and no. Roos NP, et al. **Milbank Q** 1997;75(1):89-111

Health status assessment in the occupational health setting. Jette DU, et al. **Orthop Clin North Am** 1996 Oct; 27(4):891-902 (42 ref.)

Trends in self-rated health in Finland 1972-1992. Heistaro S, et al. **Prev Med** 1996 Sep-Oct;25(5):625-32

Community-based surveillance of cardiovascular risk factors in Geneva: methods, resulting distributions, and comparisons with other populations. Morabia A, et al. **Prev Med** 1997 May-Jun;26(3):311-9

Employment status and its health-related effects in rural Styria, Austria. Rásky E, et al. **Prev Med** 1996 Nov-Dec; 25(6):757-63

The validity of two versions of the GHQ in the WHO study of mental illness in general health care. Goldberg DP, et al. **Psychol Med** 1997 Jan;27(1):191-7

The WHO (Ten) Well-Being Index: validation in diabetes [see comments] Bech P, et al. **Psychother Psychosom** 1996; 65(4):183-90. Comment in: Psychother Psychosom

1996;65(6):331-3; discussion 334-6.
The WHO (Ten) Well-Being Index: a critique [letter; comment] Bradley C. **Psychother Psychosom** 1996; 65(6):331-3; discussion 334-6. Comment on: Psychother Psychosom 1996;65(4):183-90.
Year 2000 health status indicators: a profile of California. Sutocky JW, et al. **Public Health Rep** 1996 Nov-Dec; 111(6):521-6
Development and validation of the Functional Assessment of Human Immunodeficiency Virus Infection (FAHI) quality of life instrument. Cella DF, et al. **Qual Life Res** 1996 Aug;5(4):450-63
Constructing health state preference values from descriptive quality of life outcomes: mission impossible? Chancellor JV, et al. **Qual Life Res** 1997 Mar;6(2):159-68
The effect of assessment method and respondent population on utilities elicited for Gaucher disease. Clarke AE, et al. **Qual Life Res** 1997 Mar;6(2):169-84
Health status prediction in critically ill children: a pilot study introducing Standardized Health Ratios. de Keizer NF, et al. **Qual Life Res** 1997 Mar;6(2):192-9
A validation of the concept of current perceived health and the Current Perceived Health-42 (CPH-42) questionnaire. Fielding R, et al. **Qual Life Res** 1997 Jan;6(1):35-42
Influence of proxy respondents and mode of administration on health status assessment following central nervous system tumours in childhood. Glaser AW, et al. **Qual Life Res** 1997 Jan;6(1):43-53
The validity and reliability of the Diabetes Health Profile (DHP) in NIDDM patients referred for insulin therapy. Goddijn P, et al. **Qual Life Res** 1996 Aug;5(4):433-42
Physicians' assessments of the utility of health states associated with human immunodeficiency virus (HIV) and hepatitis B virus (HBV) infection. Owens DK, et al. **Qual Life Res** 1997 Jan;6(1):77-86
Evaluating the psychometric characteristics of the Psychological General Well-Being Index with a new response scale. Revicki DA, et al. **Qual Life Res** 1996 Aug; 5(4):419-25
Cross-cultural development of a quality of life measure for men with erection difficulties. Wagner TH, et al. **Qual Life Res** 1996 Aug;5(4):443-9
Symptoms before and after surgery for colorectal cancer. Whynes DK, et al. **Qual Life Res** 1997 Jan;6(1):61-6
Maternal and child health indicators in a rural South African health district. Wilkinson D, et al. **S Afr Med J** 1997 Apr; 87(4):456-9
Health status and risk factors of seminomadic pastoralists in Mongolia: a geographical approach. Foggin PM, et al. **Soc Sci Med** 1997 Jun;44(11):1623-47
A regional comparison of socioeconomic and health indices in a Canadian province. Frohlich N, et al. **Soc Sci Med** 1996 May;42(9):1273-81
Dispersion Index: measuring trend assessment of geographical inequality in health--the example of under-five mortality in the Middle East/north African region, 1980-1994. Galal OM, et al. **Soc Sci Med** 1997 Jun; 44(12):1893-902
The relationship of income inequality to mortality: does the choice of indicator matter? Kawachi I, et al. **Soc Sci Med** 1997 Oct;45(7):1121-7
Maternal and child health in Albania. Senturia KD. **Soc Sci Med** 1996 Oct;43(7):1097-107
Sex differences in physical symptoms: the contribution of symptom perception theory. van Wijk CM, et al. **Soc Sci Med** 1997 Jul;45(2):231-46 (100 ref.)
Surrogate assessment of coronary artery disease patients' functional capacity. Von Dras DD, et al. **Soc Sci Med** 1997 May;44(10):1491-502
Can market-based solutions work for all of Medicare? Barriers to reform in the Medicare population residing in health professional shortage areas. Kohrs FP. **South Med J** 1997 May;90(5):493-7
Health outcome assessment before and after lumbar laminectomy for radiculopathy. Albert TJ, et al. **Spine** 1996 Apr 15;21(8):960-2; discussion 963
Use of the SF-36 questionnaire in cerebrovascular disease [letter; comment] Hobson P, et al. **Stroke** 1997 Feb; 28(2):464-5. Comment on: Stroke 1996 Oct;27(10):1812-6.
The Canadian Study of Health and Aging: risk factors for vascular dementia. Lindsay J, et al. **Stroke** 1997 Mar; 28(3):526-30
Progress towards the year 2000: assessing the health status of minorities in Texas. Friedman C. **Tex Med** 1996 Oct; 92(10):53-8
Improvements in mother-child health indicators in Turkey. Akin A, et al. **Turk J Pediatr** 1997 Apr-Jun;39(2):227-38
"Health" evaluation: use of physical exercise tests [letter; comment] Sallo M, et al. **World Health Forum** 1996; 17(2):174-5. Comment on: World Health Forum 1991;12(4):440-2.
[Towards the search of an optimal indicator of anesthetic activity (editorial)] Marty J, et al. **Ann Fr Anesth Reanim** 1996;15(5):579-80 **(Fre)**
[The Association of Computerized Medical Records Users in Perinatology, Obstetrics and Gynecology Sentinel Network for maternity hospitals. I. Perinatal health indicators in 1994] Mamelle N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(6):568-76 (Eng. Abstr.) **(Fre)**
[Epidemiologic indicators of tuberculosis] Auregan G. **Sante** 1997 Mar-Apr;7(2):97-102 (26 ref.) (Eng. Abstr.) **(Fre)**
[Legitimizing and responsibilities of public health reports: public health reports or social court reports?] Borgers D, et al. **Gesundheitswesen** 1996 Nov;58(11):596-601 (Eng. Abstr.) **(Ger)**
[Tools for public health reporting on CD-ROM] Pfaff G, et al. **Gesundheitswesen** 1996 Nov;58(11):606-7 (Eng. Abstr.) **(Ger)**
[The limits of health reporting in health planning] Pfaff G, et al. **Gesundheitswesen** 1996 Nov;58(11):602-5 (Eng. Abstr.) **(Ger)**
[Health monitor (SERMO study)--concept, methodology and a paradigmatic result on subjective morbidity in headache] Schmeiser-Rieder A, et al. **Gesundheitswesen** 1997 Mar;59(3):144-9 (Eng. Abstr.) **(Ger)**
[Preoperative risk and postoperative follow-up in surgery of esophageal carcinoma] Bartels H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:326-7 (Eng. Abstr.) **(Ger)**
[Are their specific guidelines in surgical management in geriatric surgery?] Bauer H. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:448-52 (Eng. Abstr.) **(Ger)**
[Prognostic significance of surgical morbidity in management of coxal femoral fracture in the elderly patient] Raunest J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:977-80 (Eng. Abstr.) **(Ger)**
[Health related quality of life and subjective health. Overview of the status of research for new evaluation criteria in medicine] Bullinger M. **Psychother Psychosom Med Psychol** 1997 Mar-Apr; 47(3-4):76-91 (165 ref.) (Eng. Abstr.) **(Ger)**
[The Duke Health Profile (DUKE)] Schuntermann MF. **Rehabilitation (Stuttg)** 1997 Feb;36(1):I-XIV **(Ger)**
[The "healthy community" project--morbidity, risk factors, health behavior and psychiatric symptoms in Steiermark] Klebel H, et al. **Wien Klin Wochenschr** 1996;108(3):75-81 (Eng. Abstr.) **(Ger)**
[Development of criteria and identification of areas most hazardous for the health of the population due to chemicals present in the environment. I. Proposed criteria for choosing health indicators] Andryszek C, et al. **Med Pr** 1995;46(6):521-9 (Eng. Abstr.) **(Pol)**
[Development of criteria and identification of areas most hazardous for the health of the population due to chemicals present in the environment. II. Choice of health indicators and synthetic taxonomic measures] Indulski JA, et al. **Med Pr** 1995;46(6):531-40 (Eng. Abstr.) **(Pol)**
[Mortality rate of children under 5 years of age proposed by UNICEF: critical analysis of its validity as a health indicator] Laurenti R, et al. **Rev Saude Publica** 1996 Apr; 30(2):148-52 (Eng. Abstr.) **(Por)**
[The validation of a system of indices for social hygiene monitoring at the local level] Bol'shakov AM, et al. **Gig Sanit** 1997 Mar-Apr;(2):29-32 **(Rus)**
[Methodological and deliberative bases for using official statistical medical information for supporting population health monitoring in Ukraine] Khizhniak NI, et al. **Lik Sprava** 1996 Mar-Apr;(3-4):170-3 **(Rus)**
[The health indices of those working in the cleanup during accident recovery operations] Shantyr' II, et al. **Voen Med Zh** 1996 Jun;317(6):42-6, 80 (Eng. Abstr.) **(Rus)**
[Functional capacity in those over 60 and related social health factors (the ANCO Project for the Aged of Cordoba)] Espejo Espejo J, et al. **Aten Primaria** 1997 Jun 15;20(1):3-11 (Eng. Abstr.) **(Spa)**
[9 reflexions on health and medical education in Mexico] Narro J. **Gac Med Mex** 1994 Jul-Aug;130(4):210-7 (Eng. Abstr.) **(Spa)**
[Criteria to assess the quality of health measurement tools (letter; comment)] Prieto L, et al. **Med Clin (Barc)** 1997 May 10;108(18):719. Comment on: Med Clin (Barc) 1996 Jun 8;107(2):45-9. **(Spa)**
[Body fat distribution: anthropometric indicators] Yáñez M, et al. **Rev Med Chil** 1995 Dec;123(12):1520-4 (35 ref.) (Eng. Abstr.) **(Spa)**
[The fundamental health indices of the population] Tarallo VL. **Lik Sprava** 1996 Jul-Sep;(7-9):172-6 **(Ukr)**

HEALTH SURVEYS

Systemic sclerosis in children: a national retrospective survey in Japan. Fujita Y, et al. **Acta Paediatr Jpn** 1997 Apr; 39(2):263-7
Characteristics of juvenile dermatomyositis in Japan. Kobayashi S, et al. **Acta Paediatr Jpn** 1997 Apr; 39(2):257-62
Clinical features of Japanese children and adolescents with systemic lupus erythematosus: results of 1980-1994 survey. Takei S, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):250-6
Health status at entry to methadone maintenance treatment using the SF-36 health survey questionnaire. Ryan CF, et al. **Addiction** 1996 Jan;91(1):39-45
Brief cognitive screening in a field survey of the oldest old. Parker MG, et al. **Aging (Milano)** 1996 Oct;8(5):354-9
Assessing participation bias in a sexual behaviour survey: implications for measuring HIV risk. Copas AJ, et al. **AIDS** 1997 May;11(6):783-90
Rapid KABP survey for evaluation of NGO HIV/AIDS prevention projects. Mercer MA, et al. **AIDS Educ Prev** 1996 Apr;8(2):143-54
Re: "Survey inference for subpopulations" [letter; comment] Wen SW. **Am J Epidemiol** 1997 Mar 15;145(6):569-70. Comment on: Am J Epidemiol 1996 Jul 1;144(1):102-6.
Self-reported carpal tunnel syndrome: predictors of work disability from the National Health Interview Survey Occupational Health Supplement. Blanc PD, et al. **Am J Ind Med** 1996 Sep;30(3):362-8
Occupational health surveillance: contributions from the National Health Interview Survey [editorial] Lalich NR, et al. **Am J Ind Med** 1997 Jan;31(1):1-3
Effectiveness of community-based screening for depression. Greenfield SF, et al. **Am J Psychiatry** 1997 Oct; 154(10):1391-7
Acculturation and marijuana and cocaine use: findings from HHANES 1982-84. Amaro H, et al. **Am J Public Health** 1990 Dec;80 Suppl:54-60
Hispanic Health and Nutrition Examination Survey: methodological considerations. Delgado JL, et al. **Am J Public Health** 1990 Dec;80 Suppl:6-10
Health care utilization barriers among Mexican Americans: evidence from HHANES 1982-84. Estrada AL, et al. **Am J Public Health** 1990 Dec;80 Suppl:27-31
Generational differences in perinatal health among the Mexican American population: findings from HHANES 1982-84. Guendelman S, et al. **Am J Public Health** 1990 Dec;80 Suppl:61-5
Patterns of cigarette smoking among Hispanics in the United States: results from HHANES 1982-84. Haynes SG, et al. **Am J Public Health** 1990 Dec;80 Suppl:47-53
Utilization of curanderos by Mexican Americans: prevalence and predictors. Findings from HHANES 1982-84. Higginbotham JC, et al. **Am J Public Health** 1990 Dec;80 Suppl:32-5
Acculturation and alcohol consumption in the Mexican American population of the southwestern United States: findings from HHANES 1982-84. Markides KS, et al. **Am J Public Health** 1990 Dec;80 Suppl:42-6
Health risk behaviors of Hispanics in the United States: findings from HHANES, 1982-84. Marks G, et al. **Am J Public Health** 1990 Dec;80 Suppl:20-6
Acculturation, access to care, and use of preventive services by Hispanics: findings from HHANES 1982-84. Solis JM, et al. **Am J Public Health** 1990 Dec;80 Suppl:11-9
Alcohol consumption patterns among Mexican American mothers and among children from single- and dual-headed households: findings from HHANES 1982-84. Stroup-Benham CA, et al. **Am J Public Health** 1990 Dec; 80 Suppl:36-41
Symptom survey: initial, critical step in a comprehensive community health study plan [editorial] Singleton CR, et al. **Arch Environ Health** 1997 Jul-Aug;52(4):255-6
Aboriginal health in the peel region of Western Australia. Hamdorf M, et al. **Aust Fam Physician** 1996 Sep;25(9 Suppl 2):S81-5
The use of computer-assisted telephone interviewing for health surveys [letter; comment] Davies M. **Aust N Z J Public Health** 1996 Feb;20(1):103. Comment on: Aust J Public Health 1995 Oct;19(5):508-11.
Face-to-face household interviews versus telephone interviews for health surveys [see comments] Donovan RJ, et al. **Aust N Z J Public Health** 1997 Apr;21(2):134-40. Comment in: Aust N Z J Public Health 1997 Apr;21(2):117-9.
Have you had your quota of nearest birthdays? [editorial; comment] O'Toole BI. **Aust N Z J Public Health** 1997 Apr;21(2):117-9. Comment on: Aust N Z J Public Health 1997 Apr;21(2):134-40.
Selection bias from sampling frames: telephone directory and electoral roll compared with door-to-door population census: results from the Blue Mountains Eye Study. Smith W, et al. **Aust N Z J Public Health** 1997 Apr;21(2):127-33
Telephone administration of the SF-36 health survey: validation studies and population norms for adults in Queensland. Watson EK, et al. **Aust N Z J Public Health** 1996 Aug;20(4):359-63
Effect of population mixing and socioeconomic status in England and Wales, 1979-85, on lymphoblastic leukaemia in children. Stiller CA, et al. **BMJ** 1996 Nov 23; 313(7068):1297-300
Follow-up of colorectal cancer patients: quality of life and attitudes towards follow-up. Stiggelbout AM, et al. **Br J Cancer** 1997;75(6):914-20
Measurement of the quality of life in rheumatic disorders using the EuroQol. Wolfe F, et al. **Br J Rheumatol** 1997 Jul;36(7):786-93
Distribution and prevalence of major risk factors of noncommunicable diseases in selected countries: the WHO Inter-Health Programme. Berrios X, et al. **Bull World Health Organ** 1997;75(2):99-108
Mental health supplement to the Ontario Health Survey: methodology [see comments] Boyle MH, et al. **Can J Psychiatry** 1996 Nov;41(9):549-58. Comment in: Can J Psychiatry 1996 Nov;41(9):541-2.
Survey of Montreal's Aboriginal population's knowledge, attitudes and behaviour regarding HIV/AIDS. DuBois MJ, et al. **Can J Public Health** 1996 Jan-Feb;87(1):37-9
The cost of conducting face-to-face household interviews in a rural, Native American population. The North Carolina Native American Cervical Cancer Prevention Project. Blinson K, et al. **Cancer** 1996 Oct 1;78(7 Suppl):1587-91
A national survey of attitudes regarding participation in prostate carcinoma testing. Cowen ME, et al. **Cancer** 1996

Nov 1;78(9):1952–7
Canadian health surveys, 1950 1997. Kendall O, et al. **Chronic Dis Can** 1997;18(2):70–90
The Canadian Human Activity Pattern Survey: report of methods and population surveyed. Leech JA, et al. **Chronic Dis Can** 1996;17(3–4):118–23
Readying a US measure of health status, the SF–36, for use in Canada. Dauphinee SW, et al. **Clin Invest Med** 1997 Aug;20(4):224–38
Types of advance notification in reminder letters and response rates [letter] Koo MM, et al. **Epidemiology** 1996 Mar;7(2):215–6
Characteristics of non–participants and reasons for non–participation in a population survey in Kin–Hu, Kinmen. Chou P, et al. **Eur J Epidemiol** 1997 Feb; 13(2):195–200
Subjectively experienced symptoms in relation to socio–economic factors in women. Furunes B, et al. **Eur J Epidemiol** 1996 Dec;12(6):617–24
The Jerusalem seventy–year–old longitudinal study. I: Description of the initial cross–sectional survey. Stessman J, et al. **Eur J Epidemiol** 1995 Dec;11(6):675–84
Outpatient morbidity in Slavonski Brod during 1991/1992 war in Croatia. Tiljak H. **Eur J Epidemiol** 1996 Feb; 12(1):93–9
Quality of life assessment and HIV infection: a review. Vanhems P, et al. **Eur J Epidemiol** 1996 Jun;12(3):221–8 (33 ref.)
Evaluation of the quality of life of patients with insulin–dependent diabetes mellitus before and after organ transplantation with the SF 36 health survey. Piehlmeier W, et al. **Eur J Surg** 1996 Dec;162(12):933–40
The use of household surveys in community–oriented primary care health needs assessments. Taylor BR, et al. **Fam Med** 1996 Jun;28(6):415–21
Mental health: international perspectives [editorial] Jones R. **Fam Pract** 1997 Feb;14(1):3–4
Evaluation of a self–report screening instrument to predict frailty outcomes in aging populations. Brody KK, et al. **Gerontologist** 1997 Apr;37(2):182–91
Measuring and monitoring general health status in elderly persons: practical and methodological issues in using the SF–36 Health Survey. McHorney CA. **Gerontologist** 1996 Oct;36(5):571–83 (74 ref.)
Laparoscopic surgery in cases of ovarian malignancies: an Austria–wide survey. Wenzl R, et al. **Gynecol Oncol** 1996 Oct;63(1):57–61
Comparison of responses to SF–36 Health Survey questions with one–week and four–week recall periods. Keller SD, et al. **Health Serv Res** 1997 Aug;32(3):367–84
Hepatitis C in a French population–based survey, 1994: seroprevalence, frequency of viremia, genotype distribution, and risk factors. The Collaborative Study Group. Dubois F, et al. **Hepatology** 1997 Jun;25(6):1490–6
Applying the sisterhood method for estimating maternal mortality to a health facility–based sample: a comparison with results from a household–based sample. Danel I, et al. **Int J Epidemiol** 1996 Oct;25(5):1017–22
Effects of recruitment strategy on response rates and risk factor profile in two cardiovascular surveys. Eastwood BJ, et al. **Int J Epidemiol** 1996 Aug;25(4):763–9
The development, reliability, and validity of a risk factor screening survey for urban minority junior high school students. Vaughan RD, et al. **J Adolesc Health** 1996 Sep; 19(3):171–8
Health assessment for partners of pregnant women: a pilot study of four survey methods. Meyer BA, et al. **J Am Board Fam Pract** 1997 May–Jun;10(3):192–8
Cost and demand analysis of excimer laser use: first World Wide Web Internet survey of the interest in refractive surgery. Borer MJ, et al. **J Cataract Refract Surg** 1996 Jul–Aug;22(6):709–12
Does it matter whom and how you ask? inter– and intra–rater agreement in the Ontario Health Survey. Grootendorst PV, et al. **J Clin Epidemiol** 1997 Feb;50(2):127–35
The influence of psychological and social factors on accuracy of self–reported blood pressure. Horwitz SM, et al. **J Clin Epidemiol** 1997 Apr;50(4):411–8
Differences between respondents and nonrespondents in a multicenter community–based study vary by gender ethnicity. The Atherosclerosis Risk in Communities (ARIC) Study Investigators. Jackson R, et al. **J Clin Epidemiol** 1996 Dec;49(12):1441–46
Comparison of survey and physician claims data for detecting hypertension. Muhajarine N, et al. **J Clin Epidemiol** 1997 Jun;50(6):711–8
Over–mortality as related to age and gender in patients with established non–insulin–dependent diabetes mellitus. Damsgaard EM, et al. **J Diabetes Complications** 1997 Mar–Apr;11(2):77–82
Five–year all–cause mortality of 1323 newly diagnosed middle–aged and elderly diabetic patients. Data from the population–based study, diabetes care in general practice, Denmark. de Fine Olivarius N, et al. **J Diabetes Complications** 1997 Mar–Apr;11(2):83–9
Risk factors associated with the recall of respiratory diseases in the Ecuadorian children. Brüssow H, et al. **J Diarrhoeal Dis Res** 1995 Dec;13(4):212–8
Predicting cardiorespiratory fitness without exercise testing in epidemiologic studies: a concurrent validity study. Cardinal BJ. **J Epidemiol** 1996 Mar;6(1):31–5
Choice of response scale for health measurement: comparison of 4, 5, and 7–point scales and visual analog scale. Nagata C, et al. **J Epidemiol** 1996 Dec;6(4):192–7
Prospective versus retrospective measurement of change in health status: a community based study in Geneva, Switzerland. Perneger TV, et al. **J Epidemiol Community Health** 1997 Jun;51(3):320–5
Estimating sample sizes for studies using the SF–36 health survey [letter; comment] Prieto L, et al. **J Epidemiol Community Health** 1996 Aug;50(4):473–4. Comment on: J Epidemiol Community Health 1995 Dec;49(6):642–4.
National survey of alcoholic liver disease in Japan (1968–91). Takada A, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct; 10(5):509–16
Predicting mortality from community surveys of older adults: the importance of self–rated functional ability. Bernard SL, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May; 52(3):S155–63
Further evidence on recent trends in the prevalence and incidence of disability among older Americans from two sources: the LSOA and the NHIS. Crimmins EM, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Mar;52(2):S59–71
A comparative analysis of ADL questions in surveys of older people. Rodgers W, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:21–36
Survey of cardiovascular risk factors in newly arrived Yemenites to Israel. Sharabi Y, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S29–30
Seat belt use in Kentucky—a comparison of five measures. McKnight RH, et al. **J Ky Med Assoc** 1996 Mar;94(3):110–4
Louisiana health and nutrition survey. Fontham ET, et al. **J La State Med Soc** 1996 Apr;148(4):171–8
Preferred sources of AIDS information, risk perceptions, and risk behaviors among inner–city community college students. Rich JA, et al. **J Natl Med Assoc** 1996 Feb; 88(2):87–93
A state–based surveillance system for work–related asthma. Rosenman KD, et al. **J Occup Environ Med** 1997 May; 39(5):415–25
Patterns of disease among children: a simple and versatile measure of child health in communities. Dugdale AE. **J Paediatr Child Health** 1996 Oct;32(5):400–4
Computer administration of a school–based adolescent health survey [see comments] Hibbert ME, et al. **J Paediatr Child Health** 1996 Oct;32(5):372–7. Comment in: J Paediatr Child Health 1996 Oct;32(5):371.
Translating research into action: the critical role of adolescent health surveys [editorial; comment] Resnick MD. **J Paediatr Child Health** 1996 Oct;32(5):371. Comment on: J Paediatr Child Health 1996 Oct;32(5):372–7.
Survey questionnaires and research projects AAPOS Research Committee [editorial] **J Pediatr Ophthalmol Strabismus** 1996 Jan–Feb;33(1):7
Non–response bias in a lifestyle survey. Hill A, et al. **J Public Health Med** 1997 Jun;19(2):203–7
A shorter form health survey: can the SF–12 replicate results from the SF–36 in longitudinal studies? Jenkinson C, et al. **J Public Health Med** 1997 Jun;19(2):179–86
Results of "satisfaction with disease control" survey [letter] Furst DE, et al. **J Rheumatol** 1996 Sep;23(9):1672–3
Musculoskeletal pain and quality of life in patients with noninflammatory joint pain compared to rheumatoid arthritis: a population survey. Hagen KB, et al. **J Rheumatol** 1997 Sep;24(9):1703–9
Validating the SF–36 health survey questionnaire in patients with psoriatic arthritis. Husted JA, et al. **J Rheumatol** 1997 Mar;24(3):511–7
Women's health care needs and use: data from the National Center for Health Statistics. Brett KM, et al. **J Womens Health** 1997 Aug;6(4):417–9
The National Longitudinal Study on Adolescent Health. Preliminary results: great expectations [editorial; comment] Klein JD. **JAMA** 1997 Sep 10;278(10):864–5. Comment on: JAMA 1997 Sep 10;278(10):823–32.
NHANES III health data relevant for aging nation [news] Marwick C. **JAMA** 1997 Jan 8;277(2):100–2
Trends in drug–resistant tuberculosis in the United States, 1993–1996 [see comments] Moore M, et al. **JAMA** 1997 Sep 10;278(10):833–7. Comment in: JAMA 1997 Sep 10;278(10):865–7.
Protecting adolescents from harm. Findings from the National Longitudinal Study on Adolescent Health [see comments] Resnick MD, et al. **JAMA** 1997 Sep 10; 278(10):823–32. Comment in: JAMA 1997 Sep 10;278(10):864–5.
An epidemiological survey of Cryptosporidium parvum infection in randomly selected inhabitants of Seoul and Chollanam–do. Chai JY, et al. **Korean J Parasitol** 1996 Jun; 34(2):113–9
Health inequalities recognised in UK. Scott–Samuel A. **Lancet** 1997 Sep 13;350(9080):753
A summary of survey research. Kachoyeanos MK. **MCN Am J Matern Child Nurs** 1997 Mar–Apr;22(2):73
Development and testing of the Medical Outcomes Study 36–Item Short Form Health Survey summary scale scores in the United Kingdom. Results from a large–scale survey and a clinical trial. Jenkinson C, et al. **Med Care** 1997 Apr; 35(4):410–6
Estimating the burden of disease. Comparing administrative data and self–reports. Robinson JR, et al. **Med Care** 1997 Sep;35(9):932–47
Predicting Quality of Well–being scores from the SF–36: results from the Beaver Dam Health Outcomes Study. Fryback DG, et al. **Med Decis Making** 1997 Jan–Mar; 17(1):1–9
The Breast Clinic in University Hospital—a four–month survey. Yip CH, et al. **Med J Malaysia** 1995 Sep; 50(3):268–71
Physical activity, lipids, apolipoproteins, and Lp(a) in the Northern Ireland Health and Activity Survey. MacAuley D, et al. **Med Sci Sports Exerc** 1996 Jun;28(6):720–36
Prospective 10–year evaluation of hypobetalipoproteinemia in a cohort of 772 firefighters and cross–sectional evaluation of hypocholesterolemia in 1,479 men in the National Health and Nutrition Examination Survey I. Glueck CJ, et al. **Metabolism** 1997 Jun;46(6):625–33
Abductive machine learning for modeling and predicting the educational score in school health surveys. Abdel–Aal RE, et al. **Methods Inf Med** 1996 Sep;35(3):265–71
The validity of self–reported drug use: improving the accuracy of survey estimates. Proceedings of a meeting. September 8–9, 1994. **NIDA Res Monogr** 1997;167:1–497
Privacy effects on self–reported drug use: interactions with survey mode and respondent characteristics. Aquilino WS. **NIDA Res Monogr** 1997;167:383–415
Repeated measures estimation of measurement bias for self–reported drug use with applications to the National Household Survey on Drug Abuse. Biemer PP, et al. **NIDA Res Monogr** 1997;167:439–76
Studies of nonresponse and measurement error in the national household survey on drug abuse. Gfroerer J, et al. **NIDA Res Monogr** 1997;167:273–95 (15 ref.)
The validity of self–reported drug use in survey research: an overview and critique of research methods. Harrison L. **NIDA Res Monogr** 1997;167:17–36 (41 ref.)
Introduction—the validity of self–reported drug use: improving the accuracy of survey estimates. Harrison L, et al. **NIDA Res Monogr** 1997;167:1–16
Design and results of the Women's Health Study. Tourangeau R, et al. **NIDA Res Monogr** 1997;167:344–65
The use of external data sources and ratio estimation to improve estimates of hardcore drug use from the NHSDA. Wright D, et al. **NIDA Res Monogr** 1997;167:477–97 (22 ref.)
Compression of disability: evidence from the National Long–Term Care Survey. Corder LS. **Nutr Rev** 1996 Jan; 54(1 Pt 2):S9–16 (7 ref.)
Respiratory symptoms. Burge S. **Occup Med (Oxf)** 1997 Jan; 47(1):55–6 (6 ref.)
A systematic approach to health surveillance [letter; comment] Kalman CJ. **Occup Med (Oxf)** 1997 Jan;47(1):60 . Comment on: Occup Med (Oxf) 1995 Dec;45(6):305–10. Comment on: Occup Med (Oxf) 1996 Jun;46(3):245–6.
National survey of the impact of low vision device use among veterans [see comments] Watson GR, et al. **Optom Vis Sci** 1997 May;74(5):249–59. Comment in: Optom Vis Sci 1997 May;74(5):237–8.
The organisation of a national survey for evaluating child psychomotor development in Argentina. Lejarraga H, et al. **Paediatr Perinat Epidemiol** 1997 Jul;11(3):359–73
Race–specific versus general stamps on African–American women's survey return rates. Price JH, et al. **Percept Mot Skills** 1996 Jun;82(3 Pt 1):928–30
Using the Internet as an educational/survey tool [letter] Canady JW, et al. **Plast Reconstr Surg** 1996 Oct;98(5):908–9
Our health—better or worse? Findings for The Health of Adult Britain 1841–1994'. **Popul Trends** 1997 Summer; (88):43–7
Trends in self–rated health in Finland 1972–1992. Heistaro S, et al. **Prev Med** 1996 Sep–Oct;25(5):625–32
A telephone survey of eel fishermen regarding external lesions and mortalities of American eels (Anguilla rostrata) from Lake Ontario and the St. Lawrence River basin, Canada. Dutil L, et al. **Prev Vet Med** 1997 Jul;31(1–2):33–49
The Michigan equine monitoring system. II. Frequencies and impact of selected health problems. Kaneene JB, et al. **Prev Vet Med** 1997 Feb;29(4):277–92
The Michigan equine monitoring system. I. Design, implementation and population estimates. Kaneene JB, et al. **Prev Vet Med** 1997 Feb;29(4):263–75
Patterns of health maintenance on Michigan equine operations. Kaneene JB, et al. **Prev Vet Med** 1997 Jan; 29(3):201–20
Health status assessment via the World Wide Web. Bell DS, et al. **Proc AMIA Annu Fall Symp** 1996;:338–42
The National Psychiatric Morbidity surveys of Great Britain—strategy and methods. Jenkins R, et al. **Psychol Med** 1997 Jul;27(4):765–74
Apparent change in caseness in longitudinal studies. Selzer R, et al. **Psychol Med** 1997 Jan;27(1):237–40
The redesign of the National Health Interview Survey. Fowler FJ Jr. **Public Health Rep** 1996 Nov–Dec; 111(6):508–11
Response rates to random digit dialing for recruiting participants to an onsite health study. Pavlik VN, et al. **Public Health Rep** 1996 Sep–Oct;111(5):444–50
Monitoring health care in the United States—a challenging task [see comments] Pollock AM, et al. **Public Health Rep** 1997 Mar–Apr;112(2):108–13. Comment in: Public Health Rep 1997 Mar–Apr;112(2):114–5.
Surveillance of HIV knowledge, attitudes, beliefs, and behaviors in the general population. Safran MA, et al. **Public Health Rep** 1996;111 Suppl 1:123–8

The validity of self-reports on chronic disease: characteristics of underreporters and implications for the planning of services. Gross R, et al. **Public Health Rev** 1996; 24(2):167-82

Is the SF-36 health survey questionnaire suitable as a self-report measure of the health status of older adults with Parkinson's disease? Hobson JP, et al. **Qual Life Res** 1997 Apr;6(3):213-6

Measurement of health-related quality of life in men with prostate cancer: the CaPSURE database. Lubeck DP, et al. **Qual Life Res** 1997 Jul;6(5):385-92

Automated utility assessment of global health. Nease RF Jr, et al. **Qual Life Res** 1996 Feb;5(1):175-82

Health outcomes by self-report: validity of the SF-36 among Australian hospital patients. Shadbolt B, et al. **Qual Life Res** 1997 May;6(4):343-52

Health-related quality of life of HIV-infected women: evidence for the reliability, validity and responsiveness of the Medical Outcomes Study Short-Form 20. Smith MY, et al. **Qual Life Res** 1996 Feb;5(1):47-55

Assessing the validity of the SF-36 General Health Survey. Stansfeld SA, et al. **Qual Life Res** 1997 Apr;6(3):217-24

A comparison of two multidimensional measures of health status: the Nottingham Health Profile and the RAND 36-Item Health Survey 1.0. VanderZee KI, et al. **Qual Life Res** 1996 Feb;5(1):165-74

Patient-based health status measurement in clinical practice: a study of its impact on epilepsy patients' care. Wagner AK, et al. **Qual Life Res** 1997 May;6(4):329-41

A new self-completion outcome measure for diabetes: is it responsive to change? Whitty P, et al. **Qual Life Res** 1997 Jul;6(5):407-13

The occurrence of uncommon intraocular inflammatory diseases: a survey of the Macula society. Hanutsaha P, et al. **Retina** 1996;16(5):437-9

Functional capacity and health of elderly people--the Evergreen project. Background, design and methods of the project. Heikkinen E. **Scand J Soc Med Suppl** 1997;53:1-18

The promise of integrated representative surveys about sexually transmitted diseases and behavior [see comments] Ku L, et al. **Sex Transm Dis** 1997 May;24(5):299-309 (47 ref.). Comment in: Sex Transm Dis 1997 May;24(5):310-1.

Prospects, problems, and prerequisites for national health examination surveys in developing countries. Fisher G, et al. **Soc Sci Med** 1996 Jun;42(12):1639-50

Methodological issues in conducting a survey of construction workers in northeastern Thailand. Thinkhamrop B, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):481-6

Understanding peripartum pelvic pain. Implications of a patient survey. Mens JM, et al. **Spine** 1996 Jun 1; 21(11):1363-9; discussion 1369-70

Analysis of serological surveys using mixture models: application to a survey of parvovirus B19. Gay NJ. **Stat Med** 1996 Jul 30;15(14):1567-73

Handling missing data in survey research. Brick JM, et al. **Stat Methods Med Res** 1996 Sep;5(3):215-38 (96 ref.)

Complex surveys [editorial] Dunn G. **Stat Methods Med Res** 1996 Sep;5(3):213

Modelling the sampling design in the analysis of health surveys. Graubard BI, et al. **Stat Methods Med Res** 1996 Sep;5(3):263-81 (53 ref.)

Innovative strategies using SUDAAN for analysis of health surveys with complex samples. LaVange LM, et al. **Stat Methods Med Res** 1996 Sep;5(3):311-29

The use of sampling weights for survey data analysis. Pfeffermann D. **Stat Methods Med Res** 1996 Sep; 5(3):239-61 (42 ref.)

Variance estimation for complex surveys using replication techniques. Rust KF, et al. **Stat Methods Med Res** 1996 Sep;5(3):283-310 (52 ref.)

Validation of the Short Form 36 (SF-36) health survey questionnaire among stroke patients [see comments] Anderson C, et al. **Stroke** 1996 Oct;27(10):1812-6. Comment in: Stroke 1997 Feb;28(2):464-5.

Bolivia 1994: results from the Demographic and Health Survey. **Stud Fam Plann** 1996 May-Jun;27(3):172-6

Côte d'Ivoire: results from the Demographic and Health Survey. **Stud Fam Plann** 1996 Sep-Oct;27(5):285-9

Haiti 1994-95: results from the Demographic and Health Survey. **Stud Fam Plann** 1996 Jul-Aug;27(4):232-6

Uganda 1995: results from the Demographic and Health Survey. **Stud Fam Plann** 1997 Jun;28(2):156-60

Guatemala 1995: results from the Demographic and Health Survey. **Stud Fam Plann** 1997 Jun;28(2):151-5

On Turkey [letter; comment] Ergör G, et al. **Stud Fam Plann** 1996 Sep-Oct;27(5):284. Comment on: Stud Fam Plann 1996 Jan-Feb;27(1):36-43.

Improved data collection and response to surveys with the assistance of neighborhood volunteers in a south Texas city. Brown BG, et al. **Toxicol Ind Health** 1997 Mar-Jun; 13(2-3):385-93

Conducting a descriptive survey: 2. Choosing a sampling strategy. Macfarlane SB. **Trop Doct** 1997 Jan;27(1):14-21

Conducting a descriptive survey: 1. Planning the survey. Macfarlane SB. **Trop Doct** 1996 Oct;26(4):161-4 (9 ref.)

Health interview surveys. Towards international harmonization of methods and instruments. de Bruin A, et al. **WHO Reg Publ Eur Ser** 1996;58:i-xiii, 1-161

[Variable rates of diseases in health survey and family practitioners' registries] Okkes IM, et al. **Ned Tijdschr Geneeskd** 1997 Mar 29;141(13):634-9 (Eng. Abstr.) **(Dut)**

[Observatoire des Allergies Oculaires. National epidemiological survey of chronic (perennial) allergic conjunctivitis and/or keratoconjunctivitis seen in ophthalmology] Bloch-Michel E, et al. **Allerg Immunol (Paris)** 1996 Sep;28(7):234-41 (Eng. Abstr.) **(Fre)**

[Nosocomial infections in a burns unit. Results of a prospective study over a year] Cremer R, et al. **Ann Fr Anesth Reanim** 1996;15(5):599-607 (Eng. Abstr.) **(Fre)**

[Programmed autologous blood transfusion in children. Results of a national survey] Le Rolle T, et al. **Ann Fr Anesth Reanim** 1996;15(5):595-8 (Eng. Abstr.) **(Fre)**

[A survey of the diffusion and impact of consensus development conference on infections caused by central venous catheters in an anesthesiologist team] Loeb T, et al. **Ann Fr Anesth Reanim** 1996;15(5):617-22 (Eng. Abstr.) **(Fre)**

[Presentation of OCTAVE II. A current epidemiologic study in France of the added prognostic value of ambulatory blood pressure monitoring] Gueyffier F, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1381-8 (Eng. Abstr.) **(Fre)**

[Cancer prevention by general practitioners in the Rhône area: a declarative survey] Garcia-Giannoli H, et al. **Bull Cancer** 1996 Oct;83(10):853-63 (39 ref.) (Eng. Abstr.) **(Fre)**

[Survey of the use of contention shells in Centre-Rhône-Alpes area] Giraud JY, et al. **Bull Cancer Radiother** 1996;83(3):164-7 (Eng. Abstr.) **(Fre)**

[Estimation methods in a sampling survey] Warszawski J, et al. **Rev Epidemiol Sante Publique** 1997 Apr;45(2):150-68 (Eng. Abstr.) **(Fre)**

[National health survey--sobering facts] Küpper C. **Fortschr Med** 1996 Jul 20;114(20-21):257-8 **(Ger)**

[Nonparticipation as a factor influencing the value of follow-up studies. Results of a telephone 5-year follow-up interview of 55-74-year-old participants of the Augsburg 1989/90 MONICA Survey] Baumann A, et al. **Gesundheitswesen** 1997 Apr;59 Suppl 1:19-25 (Eng. Abstr.) **(Ger)**

[Legitimizing and responsibilities of public health reports: public health reports or social court reports?] Borgers D, et al. **Gesundheitswesen** 1996 Nov;58(11):596-601 (Eng. Abstr.) **(Ger)**

[The limits of health reporting in health planning] Pfaff G, et al. **Gesundheitswesen** 1996 Nov;58(11):602-5 (Eng. Abstr.) **(Ger)**

[Health monitor (SERMO study)--concept, methodology and a paradigmatic result on subjective morbidity in headache] Schmeiser-Rieder A, et al. **Gesundheitswesen** 1997 Mar;59(3):144-9 (Eng. Abstr.) **(Ger)**

[The distribution of selected cardiac risk factors in employed and studying youths in the rural region of Steiermark (Austria)] Rásky E, et al. **Soz Praventivmed** 1996; 41(6):348-58 (Eng. Abstr.) **(Ger)**

[Response rates and non-response bias in a health-related mailed survey] Nakai S, et al. **Nippon Koshu Eisei Zasshi** 1997 Mar;44(3):184-91 (Eng. Abstr.) **(Jpn)**

[Health status survey in a district with many immigrant children] Grøholt EK, et al. **Tidsskr Nor Laegeforen** 1997 Mar 20;117(8):1086-9 (Eng. Abstr.) **(Nor)**

[Exploratory research: a methodological procedure for the study of human factors in the field of Public Health] Piovesan A, et al. **Rev Saude Publica** 1995 Aug;29(4):318-25 (Eng. Abstr.) **(Por)**

[Epidemiology in the study of problems of health and disease (lecture)] Beliakov VD, et al. **Arkh Patol** 1997 Jan-Feb; 59(1):3-8 (Eng. Abstr.) **(Rus)**

[Methodological aspects in the study and assessment of the health status of the population] Sidorenko GI, et al. **Gig Sanit** 1997 Mar-Apr;(2):55-8 **(Rus)**

[Results of sampling of the population on the development of a healthy life style] Lukashev AM. **Probl Sotsialnoi Gig Istor Med** 1997 Jul-Aug;(4):10-4 (Eng. Abstr.) **(Rus)**

[Validity of recording preventive activities in medical histories: consumption and antismoking counseling] Cabezas Peña C, et al. **Aten Primaria** 1996 Oct 15; 18(6):309-13 (Eng. Abstr.) **(Spa)**

[Consumption of drugs for the digestive system and for the metabolism by the Spanish population: study from the Health National Survey in 1987 and 1993] del Río MC, et al. **Gastroenterol Hepatol** 1996 Aug-Sep;19(7):347-50 (Eng. Abstr.) **(Spa)**

[Social inequities of health in Spain. Report of the Scientific Commission for the Study of Social Inequities in Health in Spain] Navarro López V, et al. **Rev Esp Salud Publica** 1996 Sep-Dec;70(5-6):505-636 (Eng. Abstr.) **(Spa)**

[Scientific Commission for the Study of Social Inequities of Health in Spain (editorial)] Navarro López V, et al. **Rev Esp Salud Publica** 1996 Sep-Dec;70(5-6):503-4 **(Spa)**

[The National Survey on Working Conditions: data for reflection] Zimmermann Verdejo M, et al. **Rev Esp Salud Publica** 1996 Jul-Aug;70(4):421-9 (Eng. Abstr.) **(Spa)**

HEALTH SYSTEMS AGENCIES

A rational approach to long-term care: comparing the independent living model with agency-based care for persons with high spinal cord injuries. Mattson-Prince J. **Spinal Cord** 1997 May;35(5):326-31

HEALTH TRANSITION

Health transition research at the Australian National University [editorial] Caldwell J. **Aust N Z J Public Health** 1996 Aug;20(4):340-1

Health transition: the economic issues. de Silva A. **Ceylon Med J** 1997 Mar;42(1):1-4

Population momentum expresses population aging. Kim YJ, et al. **Demography** 1997 Aug;34(3):421-7

An introduction to time-trend analysis. Ely JW, et al. **Infect Control Hosp Epidemiol** 1997 Apr;18(4):267-74

Projected cancer incidence rates in Bulgaria, 1968-2017. Hristova L, et al. **Int J Epidemiol** 1997 Jun;26(3):469-75

Cause-specific mortality trends in The Netherlands, 1875-1992: a formal analysis of the epidemiologic transition. Wolleswinkel-van den Bosch JH, et al. **Int J Epidemiol** 1997 Aug;26(4):772-81

Mental health care for the elderly [editorial] Sartorius N. **Int J Geriatr Psychiatry** 1997 Apr;12(4):430-1

Psychiatry of the elderly: a consensus statement [editorial] Wertheimer J. **Int J Geriatr Psychiatry** 1997 Apr; 12(4):432-5 (0 ref.)

Changes in diet in Finland from 1972 to 1992: impact on coronary heart disease risk. Pietinen P, et al. **Prev Med** 1996 May-Jun;25(3):243-50

Changing mortality from coronary heart disease among smokers and nonsmokers over a 20-year interval. Scheidt S. **Prev Med** 1997 Jul-Aug;26(4):441-6

Changes in mortality from smoking in two American Cancer Society prospective studies since 1959. Thun MJ, et al. **Prev Med** 1997 Jul-Aug;26(4):422-6

Changing smoking patterns and mortality from chronic obstructive pulmonary disease. Wise RA. **Prev Med** 1997 Jul-Aug;26(4):418-21 (23 ref.)

Cardiovascular diseases as a growing health problem in developing countries: the role of nutrition in the epidemiologic transition. Pearson TA. **Public Health Rev** 1996;24(2):131-46 (29 ref.)

Reproductive change in Sri Lanka: analysis of intermediate variables, 1982 and 1987. De Silva WI. **Soc Biol** 1996 Fall-Winter;43(3-4):242-56

Impact of future cigarette smoking scenarios on mortality of the adult population in the United States, 2000-2050. Nam CB, et al. **Soc Biol** 1996 Fall-Winter;43(3-4):155-68

Causes of change in the health of populations: a biopsychosocial viewpoint. Arnetz BB. **Soc Sci Med** 1996 Sep;43(5):605-8 (31 ref.)

Bore holes and the vanishing of guinea worm disease in Ghana's upper region. Hunter JM. **Soc Sci Med** 1997 Jul; 45(1):71-89

The socio-economic distribution of heart diseases: changing gradients in The Netherlands. Otten FW, et al. **Soc Sci Med** 1997 May;44(9):1349-56

Reproductive preferences and fertility trends in post-transition Thailand. Knodel J, et al. **Stud Fam Plann** 1996 Nov-Dec;27(6):307-18

The World Health report 1996--fighting disease, fostering development. **World Health Forum** 1997;18(1):1-8

HEALTH VISITORS see **COMMUNITY HEALTH NURSING**

HEALTHCARE see **HEALTH CARE**

HEALTHCARE SURVEYS see **HEALTH CARE SURVEYS**

HEALTHY WORKER EFFECT

How safe are bioequivalence studies in healthy volunteers? Huic M, et al. **Therapie** 1996 Jul-Aug;51(4):410-3

HEARING

consider also terms at ACOUSTIC and AUDIO-

see related
ACOUSTIC STIMULATION
AUDITORY PERCEPTION
BONE CONDUCTION

Hearing results in otosclerosis surgery after partial stapedectomy, total stapedectomy and stapedotomy. Persson P, et al. **Acta Otolaryngol (Stockh)** 1997 Jan; 117(1):94-9

Synaptic repair mechanisms responsible for functional recovery in various cochlear pathologies. Puel JL, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):214-8

Bilateral idiopathic loss of peripheral vestibular function with normal hearing. Vibert D, et al. **Acta Otolaryngol (Stockh)** 1995 Sep;115(5):611-5

Hearing recovery and its process from the time of onset in sudden deafness. Sano H, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;524:36-8

Deaf and hearing parents' interactions with eldest hearing children. Jones EG, et al. **Am Ann Deaf** 1996 Oct; 141(4):278-83

Sources of stress for mothers and fathers of deaf and hard

of hearing infants. Meadow-Orlans KP. **Am Ann Deaf** 1995 Oct;140(4):352-7

Attitudes of teachers and parents in India toward career choices for deaf and hearing people. Parasnis I, et al. **Am Ann Deaf** 1996 Oct;141(4):303-8

Deaf adults' attitudes toward career choices for deaf and hearing people in India. Parasnis I, et al. **Am Ann Deaf** 1996 Dec;141(5):333-9

A comparison of deaf and hearing subjects in visual nonverbal sensitivity and information processing. Rollman SA, et al. **Am Ann Deaf** 1996 Mar;141(1):37-41

Do motorcycle helmets affect riders' vision and hearing? National Highway Traffic Safety Administration. **Ann Emerg Med** 1997 Feb;29(2):282-3

British Society of Audiology short papers meeting on experimental studies of hearing and deafness. Cambridge, United Kingdom, 22-23 September 1996. Abstracts. **Br J Audiol** 1997 Apr;31(2):73-132

The c-Fos transcription factor in the auditory pathway of the juvenile rat: effects of acoustic deprivation and repetitive stimulation. Keilmann A, et al. **Brain Res** 1997 Apr 11;753(2):291-8

Play, language, and maternal responsiveness: a longitudinal study of deaf and hearing infants. Spencer PE, et al. **Child Dev** 1996 Dec;67(6):3176-91

Effects of acclimatization and deprivation on non-speech auditory abilities. Byrne D, et al. **Ear Hear** 1996 Jun;17(3 Suppl):29S-37S

Description and primary results from an audiometric study of male twins. Karlsson KK, et al. **Ear Hear** 1997 Apr; 18(2):114-20

The auditory evoked "off" response: sources and comparison with the "on" and the "sustained" responses. Pantev C, et al. **Ear Hear** 1996 Jun;17(3):255-65

Some considerations in evaluating spoken word recognition by normal-hearing, noise-masked normal-hearing, and cochlear implant listeners. I: The effects of response format. Sommers MS, et al. **Ear Hear** 1997 Apr;18(2):89-99

ISO working group seeks information on high-frequency thresholds [letter] Wilber LA. **Ear Hear** 1996 Feb; 17(1):78-9

Harvey Fletcher's role in the creation of communication acoustics. Allen JB. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):1825-39

The relation between gap detection, loudness, and loudness growth in noise-masked normal-hearing listeners. Hall JW 3rd, et al. **J Acoust Soc Am** 1997 Feb;101(2):1044-9

Intraspeech spread of masking in normal-hearing and hearing-impaired listeners. Summers V, et al. **J Acoust Soc Am** 1997 May;101(5 Pt 1):2866-76

Formant transition duration and speech recognition in normal and hearing-impaired listeners. Turner CW, et al. **J Acoust Soc Am** 1997 May;101(5 Pt 1):2822-5

Development of hearing and vocalization in a marsupial, the Northern Quoll, Dasyurus hallucatus. Aitkin L, et al. **J Exp Zool** 1996 Dec 15;276(6):394-402

Hearing and vestibular schwannomas [letter; comment] Fischer G, et al. **J Neurosurg** 1997 Jul;87(1):133. Comment on: J Neurosurg 1995 Aug;83(2):191-6.

Hearing preservation in the removal of intracanalicular acoustic neuromas via the retrosigmoid approach. Rowed DW, et al. **J Neurosurg** 1997 Mar;86(3):456-61 (38 ref.)

Evaluation of auditory system in preschool children whose mothers had mid-second trimester amniocentesis. Annapoorna V, et al. **J Perinat Med** 1996;24(3):207-12

Auditory hallucinations in schizophrenia. Group experience in examining symptom management and behavioral strategies. Buccheri R, et al. **J Psychosoc Nurs Ment Health Serv** 1996 Feb;34(2):12-26

Generalizability of speechreading performance on nonsense syllables, words, and sentences: subjects with normal hearing. Demorest ME, et al. **J Speech Hear Res** 1996 Aug; 39(4):697-713

Precision of tympanometric measurements. Gaihede M, et al. **J Speech Lang Hear Res** 1997 Feb;40(1):215-22

Hearing preservation after acoustic neuroma resection with tumor size used as a clinical prognosticator. Hecht CS, et al. **Laryngoscope** 1997 Aug;107(8):1122-6

Sound emission from cochlear filters and foveae--does the auditory sense organ make sense? Kössl M. **Naturwissenschaften** 1997 Jan;84(1):9-16 (65 ref.)

Recovery of useful hearing after posterior fossa surgery: the role of otoacoustic emissions: case report. Lanzino G, et al. **Neurosurgery** 1997 Aug;41(2):469-72; discussion 472-3

Evaluation of noise in hearing instruments caused by GSM and DECT mobile telephones. Hansen MO, et al. **Scand Audiol** 1996;25(4):227-32

Ear care projects for Estonia and Karelia. Salmivalli A, et al. **Scand Audiol** 1996;25(4):277-8

Application of cross-correlation function in the evaluation of objective MLR thresholds in the low and middle frequencies. Xu ZM, et al. **Scand Audiol** 1995;24(4):231-6

[Results of hearing preservation in surgery of vestibular schwannoma. Value of combined retrosigmoid and middle fossa approaches] Louis E, et al. **Neurochirurgie** 1997; 43(1):8-13; discussion 13-4 (26 ref.) (Eng. Abstr.) **(Fre)**

[Rehabilitation of deafness in the elderly: multidisciplinary intervention in experimental university center] Menozzi Tucci F, et al. **Acta Otorhinolaryngol Ital** 1996 Feb;16(1 Suppl 52):3-16 (Eng. Abstr.) **(Ita)**

[Sound lateralization testing based on interaural intensity difference discrimination and interaural time difference discrimination in acoustic neurinoma patients--comparison of ABRS] Takeda H, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jan;99(1):18-27 (Eng. Abstr.) **(Jpn)**

[Relationship between distortion product otoacoustic emissions and frequency discrimination in normal-hearing and hearing-impaired ears] Tanaka Y. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jan;99(1):65-78 (Eng. Abstr.) **(Jpn)**

[Hearing preservation and tinnitus following removal of acoustic neurinomas] Kurokawa Y, et al. **No Shinkei Geka** 1996 Apr;24(4):329-34 (Eng. Abstr.) **(Jpn)**

[Materials for the training of hearing based on phonetic-acoustic features of the Polish language] Surmanowicz-Demenko G, et al. **Otolaryngol Pol** 1996; 50(5):536-41 (Eng. Abstr.) **(Pol)**

[Auditory provoked potentials in children with neonatal risk for hypoacusia] Garza Morales S, et al. **Rev Panam Salud Publica** 1997 Feb;1(2):119-24 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

The influence of fluoridation of drinking water on the long-term hearing results of stapedectomy. Vartiainen E, et al. **Clin Otolaryngol** 1997 Feb;22(1):34-6

Effects of lifetime lead exposure in monkeys on detection of pure tones. Rice DC. **Fundam Appl Toxicol** 1997 Apr; 36(2):112-8

Neurotoxicity and ototoxicity of cisplatin plus paclitaxel in comparison to cisplatin plus cyclophosphamide in patients with epithelial ovarian cancer [see comments] Cavaletti G, et al. **J Clin Oncol** 1997 Jan;15(1):199-206. Comment in: J Clin Oncol 1997 Jul;15(7):2761-2.

GENETICS

Distortion product emissions in normal-hearing and low-frequency hearing loss carriers of genes for Waardenburg's syndrome. Liu XZ, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):220-5

Phenotypic patterns of distortion product otoacoustic emission in inbred and F1 hybrid hearing mouse strains. Huang JM, et al. **Hear Res** 1996 Sep 1;98(1-2):18-21

PHYSIOLOGY

Comparison of song frequency and receptor tuning in two closely related bushcricket species. Kalmring K, et al. **Acta Biol Hung** 1995;46(2-4):457-69

Different aspects of hearing preservation in surgery of vestibular schwannoma in women and men. Schaller B, et al. **Acta Neurochir (Wien)** 1996;138(11):1275-81

Characteristics of transient-evoked otoacoustic emissions (TEOES) in neonates. Aidan D, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):25-30

Short-term adaptation of excitation and inhibition shapes binaural processing. Finlayson PG, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):187-91

Evidence of peripheral hearing asymmetry in humans: clinical implications. Khalfa S, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):192-6

The effect of drinking water fluoridation on the natural course of hearing in patients with otosclerosis. Vartiainen E, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):747-50

New computerized Finnish speech in noise test and binaural hearing. Laitakari K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:74-6

Stapes surgery: results when performing a moderate number of stapedectomies. Puls T. **Acta Otorhinolaryngol Belg** 1997; 51(1):23-5

The influence of different taurine diets on hearing development in normal babies. A preliminary report. Davies WE, et al. **Adv Exp Med Biol** 1996;403:631-7

Hearing as reflected by middle and long latency event-related potentials. Jacobson GP, et al. **Adv Otorhinolaryngol** 1997;53:46-84 (245 ref.)

Hearing, II: the retrocochlear auditory pathway. Swartz JD, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1479-81

Early sound deprivation and long-term hearing. Welsh LW, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):877-81

Reliability of auditory brainstem responses from sequenced high-frequency (> or = 8 kHz) tonebursts. Fausti SA, et al. **Audiology** 1995 Jul-Aug;34(4):177-88

Hearing in the marsupial Monodelphis domestica as determined by auditory-evoked brainstem responses. Reimer K. **Audiology** 1995 Nov-Dec;34(6):334-42

The pattern of development from non-communicative behaviour to language by hearing impaired and hearing infants. Robinshaw HM. **Br J Audiol** 1996 Jun;30(3):177-98

Concept of the notional person in the assessment of hearing disability. Robinson DW, et al. **Br J Audiol** 1996 Feb; 30(1):45-54

Issues in comparing the speechreading abilities of hearing-impaired and hearing 15 to 16 year-old pupils. Elphick R. **Br J Educ Psychol** 1996 Sep;66 (Pt 3):357-65

On the role played by ontogenetic remodeling and functional transformation in the evolution of terrestrial hearing. Fritzsch B. **Brain Behav Evol** 1997 Jul;50(1):38-49 (75 ref.)

Mechanical amplification of stimuli by hair cells. Hudspeth A. **Curr Opin Neurobiol** 1997 Aug;7(4):480-6 (67 ref.)

The hearing threshold levels of children at school age. Haapaniemi JJ. **Ear Hear** 1996 Dec;17(6):469-77

Immittance findings in school-aged children. Haapaniemi JJ. **Ear Hear** 1996 Feb;17(1):19-27

A procedure for testing speech intelligibility in a virtual listening environment. Koehnke J, et al. **Ear Hear** 1996 Jun;17(3):211-7

Auditory evoked brain stem responses to trains of stimuli in human adults. Lasky RE, et al. **Ear Hear** 1996 Dec; 17(6):544-51

Effects of intratympanically delivered lidocaine on the auditory system in humans. Laurikainen EA, et al. **Ear Hear** 1996 Feb;17(1):49-54

Maturation of human cortical auditory function: differences between normal-hearing children and children with cochlear implants. Ponton CW, et al. **Ear Hear** 1996 Oct; 17(5):430-7

Identification of pseudohypacusis using speech recognition thresholds. Schlauch RS, et al. **Ear Hear** 1996 Jun; 17(3):229-36

Word recognition in continuous and interrupted broadband noise by young normal-hearing, older normal-hearing, and presbyacusic listeners. Stuart A, et al. **Ear Hear** 1996 Dec; 17(6):478-89

Preliminary observations on the development of auditory sensitivity in infants with Down syndrome. Werner LA, et al. **Ear Hear** 1996 Dec;17(6):455-68

The auditory system in humans [see comments] Doyle JH. **Ear Nose Throat J** 1997 Mar;76(3):136-9. Comment in: Ear Nose Throat J 1997 Mar;76(3):122.

Doyle's new theory of hearing [editorial; comment] Pulec JL. **Ear Nose Throat J** 1997 Mar;76(3):122. Comment on: Ear Nose Throat J 1997 Mar;76(3):136-9.

Outer hair cell morphology related to function. Slepecky NB. **Ear Nose Throat J** 1997 Mar;76(3):145-50

Human long-latency responses to brief interaural disparities of intensity. Ungan P, et al. **Electroencephalogr Clin Neurophysiol** 1996 Nov; 99(5):479-90

Unrestrained nociceptive response and disregulation of hearing ability in mice lacking the nociceptin/orphaninFQ receptor. Nishi M, et al. **EMBO J** 1997 Apr 15; 16(8):1858-64

Effects of experimental cochlear thrombosis on oxygenation and auditory function of the inner ear. Scheibe F, et al. **Eur Arch Otorhinolaryngol** 1997;254(2):91-4

On the role of the olivocochlear bundle in hearing: 16 case studies. Scharf B, et al. **Hear Res** 1997 Jan;103(1-2):101-22

Optimal head related transfer functions for hearing and monaural localization in elevation: a signal processing design perspective. Rao KR, et al. **IEEE Trans Biomed Eng** 1996 Nov;43(11):1093-105

Effect of relative amplitude, presentation level, and vowel duration on perception of voiceless stop consonants by normal and hearing-impaired listeners. Hedrick MS, et al. **J Acoust Soc Am** 1996 Nov;100(5):3398-407

Age- and gender-specific reference ranges for hearing level and longitudinal changes in hearing level. Morrell CH, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):1949-67

Age-related changes in temporal gap detection. Snell KB. **J Acoust Soc Am** 1997 Apr;101(4):2214-20

Phase delay measurements of distortion product otoacoustic emissions at 2f1-f2 and 2f2-f1 in human ears. Wable J, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2228-35

Auditory filter asymmetry at 2000 Hz in 80 normal-hearing ears. Wright BA. **J Acoust Soc Am** 1996 Sep;100(3):1717-21

Correlated individual differences in conditions used to measure psychophysical suppression and signal enhancement. Wright BA. **J Acoust Soc Am** 1996 Nov; 100(5):3295-303

Auditory evoked gamma band potential in normal subjects. Jacobson GP, et al. **J Am Acad Audiol** 1997 Feb;8(1):44-52

Noise induced temporary otoacoustic emission shifts. Attias J, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):221-33

The role of adrenocortical steroid hormones in the development of hearing. Freeman S, et al. **J Basic Clin Physiol Pharmacol** 1996;7(3):167-77

Cardiac artifacts in magnetoencephalogram. Jousmäki V, et al. **J Clin Neurophysiol** 1996 Mar;13(2):172-6

Features of the structural development of the inferior colliculus in relation to the onset of hearing in a marsupial: the northern quoll, Dasyurus hallucatus. Aitkin L, et al. **J Comp Neurol** 1996 Nov 4;375(1):77-88

Calretinin expression in the chick brainstem auditory nuclei develops and is maintained independently of cochlear nerve input. Parks TN, et al. **J Comp Neurol** 1997 Jun 23; 383(1):112-21

Evidence that perihypoglossal neurons involved in vestibular-auditory and gaze control functions respond to nerve growth factor. Sukhov RR, et al. **J Comp Neurol** 1997 Jun 30;383(2):123-34

Susceptibility of developing cochlear nucleus neurons to deafferentation-induced death abruptly ends just before the onset of hearing. Tierney TS, et al. **J Comp Neurol** 1997 Feb 10;378(2):295-306

Hearing in blind subterranean Zambian mole-rats (Cryptomys sp.): collective behavioural audiogram in a highly social rodent. Brückmann G, et al. **J Comp Physiol [A]** 1997 Jul;181(1):83-8

The inferior colliculus of the mustached bat has the frequency-vs-latency coordinates. Hattori T, et al. **J Comp Physiol [A]** 1997 Mar;180(3):271-84

Audiogram of the fox squirrel (Sciurus niger). Jackson LL, et al. **J Comp Psychol** 1997 Mar;111(1):100-4

Spatial acuity of ultrasound hearing in flying crickets. Wyttenbach RA, et al. **J Exp Biol** 1997 Jul;200 (Pt 14):1999–2006

Temporal coding of concurrent acoustic signals in auditory midbrain. Bodnar DA, et al. **J Neurosci** 1997 Oct 1; 17(19):7553–64

Intracellular recordings in response to monaural and binaural stimulation of neurons in the inferior colliculus of the cat. Kuwada S, et al. **J Neurosci** 1997 Oct 1;17(19):7565–81

A cheap earphone for small animals with good frequency response in the ultrasonic frequency range. Schuller G. **J Neurosci Methods** 1997 Feb;71(2):187–90

Sensitivity and specificity of the neonatal brain–stem auditory evoked potential for hearing and language deficits in survivors of extracorporeal membrane oxygenation. Desai S, et al. **J Pediatr** 1997 Aug;131(2):233–9

Acoustic effect of malleus head removal and tensor tympani muscle section on middle ear reconstruction. Asai M, et al. **Laryngoscope** 1997 Sep;107(9):1217–22

An intrinsic frequency limit to the cochlear amplifier. Gale JE, et al. **Nature** 1997 Sep 4;389(6646):63–6

Evidence for a sound movement area in the human cerebral cortex. Griffiths TD, et al. **Nature** 1996 Oct 3; 383(6599):425–7

Auditory deprivation modifies sleep in the guinea–pig. Pedemonte M, et al. **Neurosci Lett** 1997 Feb 14;223(1):1–4

An ear for quality: differential associative characteristics of taste–potentiated auditory and odor avoidance. von Kluge S, et al. **Physiol Behav** 1996 Aug;60(2):331–9

Orderly cortical representation of vowels based on formant interaction. Ohl FW, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9440–4

Hearing and bat defence in geometrid winter moths. Rydell J, et al. **Proc R Soc Lond B Biol Sci** 1997 Jan 22; 264(1378):83–8

Magnetic fields elicited by tones and vowel formants reveal tonotopy and nonlinear summation of cortical activation. Diesch E, et al. **Psychophysiology** 1997 Sep;34(5):501–10

The acoustic reflex at a 1000 Hz probe frequency: phasor and vector analysis. Ferguson J, et al. **S Afr J Commun Disord** 1995;42:29–34

Effects of rise–fall time and repetition rate on the auditory brainstem response to 0.5 and 1 kHz tone bursts using normal–hearing and hearing–impaired subjects. Beattie RC, et al. **Scand Audiol** 1997;26(1):23–32

Word recognition in continuous noise, interrupted noise, and in quiet by normal–hearing listeners at two sensation levels. Stuart A, et al. **Scand Audiol** 1997;26(2):112–6

Fetal hearing: characterization of the stimulus and response. Gerhardt KJ, et al. **Semin Perinatol** 1996 Feb;20(1):11–20 (35 ref.)

Normal aging and human physiology. Chodzko–Zajko WJ. **Semin Speech Lang** 1997 May;18(2):95–104; quiz 104–5 (34 ref.)

Neurotrophins gain a hearing. Schimmang T, et al. **Trends Neurosci** 1997 Mar;20(3):100–2

[Vibratory acoustic stimulation test in fetal hearing monitor] Ke X, et al. **Chung Hua Erh Pi Yen Hou Ko Tsa Chih** 1995;30(5):264–6 (Eng. Abstr.) **(Chi)**

[First comparisons with laser vibrometry measurements and computer simulation of ear ossicle movements (see comments)] Eiber A, et al. **HNO** 1997 Jul;45(7):538–44 (Eng. Abstr.). Comment in: HNO 1997 Jul;45(7):509–11. **(Ger)**

[The study of the modification of the natural resonance of the external ear following tympanoplasty] Balestri JA, et al. **Acta Otorhinolaryngol Ital** 1995 Aug;15(4):279–88 (Eng. Abstr.) **(Ita)**

[The study of factors affecting ABR in high risk newborn infants] Castello E, et al. **Acta Otorhinolaryngol Ital** 1995 Aug;15(4):265–72 (Eng. Abstr.) **(Ita)**

[Incidence of normal hearing in acoustic neuroma] De Donato G, et al. **Acta Otorhinolaryngol Ital** 1995 Apr; 15(2):73–9 (Eng. Abstr.) **(Ita)**

[Otoacoustic distortion products in adults with normal hearing] Simoncelli C, et al. **Acta Otorhinolaryngol Ital** 1995 Apr;15(2):80–6 (Eng. Abstr.) **(Ita)**

[Characteristics of hearing of common dolphin (Delphinus delphis) using evoked auditory brain stem potentials] Popov VV, et al. **Dokl Akad Nauk** 1996 Aug;349(4):562–4 **(Rus)**

[Acoustically guided behavior in the early ontogeny of the long–eared owl: the development of hearing sensitivity] Golubeva TV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar–Apr;46(2):317–27 (Eng. Abstr.) **(Rus)**

[Brain stem auditory evoked responses in rats. Effects of the development, stimulation rate and electrode placement] Poblano A, et al. **Acta Otorrinolaringol Esp** 1996 May–Jun; 47(3):193–8 (Eng. Abstr.) **(Spa)**

[Removal and processing inner ear specimens for morphological research on the ear of the guinea pig] García Berrocal JR, et al. **An Otorrinolaringol Ibero Am** 1996; 23(4):189–99 (Eng. Abstr.) **(Spa)**

[The solitary ear] Garzón Calles JA. **An Otorrinolaringol Ibero Am** 1996;23(4):367–74 (Eng. Abstr.) **(Spa)**

HEARING AIDS

Development of capacities of communication and socialization in young deaf children: utility of a common assessment protocol for implanted or hearing aid equipped children. Dauman R, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):234–9

Vibrotactile aid and brain cortical activity. Suárez H, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):208–10

Influence of preimplant experience with hearing aids on postimplant auditory perception. Kim SJ, et al. **Adv Otorhinolaryngol** 1997;52:299–301

Effects of hearing aid use on communication ability in prelingually deafened children under 4 years of age. Shim YJ, et al. **Adv Otorhinolaryngol** 1997;52:302–4

Use of an implantable hearing device. Yellin W, et al. **Am J Otolaryngol** 1997 Jan–Feb;18(1):33–7

Audio–visual perception of compressed speech by profoundly hearing–impaired subjects. Drullman R, et al. **Audiology** 1997 May–Jun;36(3):165–77

Implantable hearing aid using a piezoelectric ossicular vibrator: a speech audiometric study. Gyo K, et al. **Audiology** 1996 Sep–Oct;35(5):271–6

Rehabilitation of hearing–impaired children: intervention and outcome. Vesteragar V, et al. **Audiology** 1995 Jul–Aug; 34(4):207–17

Surgical rehabilitation of deafness with partially implantable hearing aid using piezoelectric ceramic bimorpli ossicular vibrator. Yanagihara N, et al. **Auris Nasus Larynx** 1997; 24(1):91–8

Predictors of daily assessed hearing aid use and hearing capability using visual analogue scales. Andersson G, et al. **Br J Audiol** 1996 Feb;30(1):27–35

An evaluation of a group follow–up scheme for new NHS hearing aid users. Brickley GJ, et al. **Br J Audiol** 1996 Oct;30(5):307–12

The time course of adaptation to hearing aid use. Brooks DN. **Br J Audiol** 1996 Feb;30(1):55–62

Simulation of multi–microphone hearing aids in multiple interference environments. Hoffman MW, et al. **Br J Audiol** 1996 Aug;30(4):249–60

Effect of initial setting on convergence to optimal hearing aid setting using a simplex method. Kuk FK, et al. **Br J Audiol** 1995 Oct;29(5):263–9

Real–ear to coupler differences in children with grommets. Martin HC, et al. **Br J Audiol** 1997 Feb;31(1):63–9

Real ear to coupler differences in children having otitis media with effusion. Martin HC, et al. **Br J Audiol** 1996 Apr; 30(2):71–8

The relationship between uncomfortable loudness level and maximum power output in subjects recently fitted with NHS hearing aids. Munro KJ, et al. **Br J Audiol** 1996 Aug; 30(4):275–85

Paired comparisons between the Classic 300 bone–anchored and conventional bone–conduction hearing aids in terms of sound quality and speech intelligibility. Ringdahl A, et al. **Br J Audiol** 1995 Dec;29(6):299–307

Perceived sound quality of three bone–anchored hearing aid models. Ringdahl A, et al. **Br J Audiol** 1995 Dec; 29(6):309–14

Early intervention for hearing impairment: differences in the timing of communicative and linguistic development. Robinshaw HM. **Br J Audiol** 1995 Dec;29(6):315–34

Reported benefits and problems experienced with bone–anchored hearing aids. Stephens D, et al. **Br J Audiol** 1996 Jun;30(3):215–20

The value of routine in–the–ear measurement of hearing aid gain. Swan IR, et al. **Br J Audiol** 1995 Oct;29(5):271–7

Attitude and help–seeking for hearing impairment. van den Brink RH, et al. **Br J Audiol** 1996 Oct;30(5):313–24

Hearing aids and glue ear. Flanagan PM, et al. **Clin Otolaryngol** 1996 Aug;21(4):297–300

Report of the Eriksholm Workshop on auditory deprivation and acclimatization. Arlinger S, et al. **Ear Hear** 1996 Jun; 17(3 Suppl):87S–98S (320 ref.)

Effects of earmold type on ability to locate sounds when wearing hearing aids. Byrne D, et al. **Ear Hear** 1996 Jun; 17(3):218–28

Implications of acclimatization for hearing aid fitting practices and research [comment] Byrne D. **Ear Hear** 1996 Jun;17(3 Suppl):25S–26S. Comment on: Ear Hear 1996 Jun;17(3 Suppl):14S–25S.

The bone–anchored hearing aid: reference quantities and functional gain. Carlsson PU, et al. **Ear Hear** 1997 Feb; 18(1):34–41

Compression? Yes, but for low or high frequencies, for low or high intensities, and with what response times? Dillon H. **Ear Hear** 1996 Aug;17(4):287–307 (63 ref.)

Changes in speech intelligibility as a function of time and signal processing strategy for an Ineraid patient fitted with continuous interleaved sampling (CIS) processors. Dorman MF, et al. **Ear Hear** 1997 Apr;18(2):147–55

Outcome measures for hearing aid evaluation—properties and requirements in acclimatization research [comment] Gatehouse S. **Ear Hear** 1996 Jun;17(3 Suppl):26S–28S. Comment on: Ear Hear 1996 Jun;17(3 Suppl):14S–25S.

Age of suspicion, identification, and intervention for infants and young children with hearing loss: a national study. Harrison M, et al. **Ear Hear** 1996 Feb;17(1):55–62

The time course of hearing aid benefit. Horwitz AR, et al. **Ear Hear** 1997 Feb;18(1):1–11

Comparison of conventional amplification and an assistive listening device in elderly persons. Jerger J, et al. **Ear Hear** 1996 Dec;17(6):490–504

The relationship between listening conditions and alternative amplification schemes for multiple memory hearing aids. Keidser G. **Ear Hear** 1995 Dec;16(6):575–86

Candidates for multiple frequency response characteristics. Keidser G, et al. **Ear Hear** 1995 Dec;16(6):562–74

A digital filterbank hearing aid: predicting user preference and performance for two signal processing algorithms. Lunner T, et al. **Ear Hear** 1997 Feb;18(1):12–25

Acclimatization to hearing aids. Saunders GH, et al. **Ear Hear** 1997 Apr;18(2):129–39

Measures of hearing aid gain for real speech. Stelmachowicz PG, et al. **Ear Hear** 1996 Dec;17(6):520–7

Comparison of linear and K–Amp circuits. Surr RK, et al. **Ear Hear** 1997 Apr;18(2):140–6

A review of past research on changes in hearing aid benefit over time [see comments] Turner CW, et al. **Ear Hear** 1996 Jun;17(3 Suppl):14S–25S. Comment in: Ear Hear 1996 Jun;17(3 Suppl):25S–26S. Comment in: Ear Hear 1996 Jun;17(3 Suppl):26S–28S.

Design of two syllabic nonlinear multichannel signal processors and the results of speech tests in noise. van Harten–de Bruijn HE, et al. **Ear Hear** 1997 Feb;18(1):26–33

Physiological plasticity in the auditory system and its possible relevance to hearing aid use, deprivation effects, and acclimatization. Willott JF. **Ear Hear** 1996 Jun;17(3 Suppl):66S–77S

The bone–anchored hearing aid (BAHA) in children with auricular malformations. Granström G, et al. **Ear Nose Throat J** 1997 Apr;76(4):238–40, 242, 244–7

Anatomical results with titanium implants in the mastoid region. Portmann D, et al. **Ear Nose Throat J** 1997 Apr; 76(4):231–4, 236

Rehabilitation in Franceschetti syndrome: an interdisciplinary approach using bone–anchored hearing aids. Reuter WF, et al. **Ear Nose Throat J** 1997 Jun;76(6):402–3, 411

Acute human trial of the floating mass transducer. Tjellström A, et al. **Ear Nose Throat J** 1997 Apr;76(4):204–6, 209–10

The role of individualized headphone calibration for the generation of high fidelity virtual auditory space. Pralong D. **J Acoust Soc Am** 1996 Dec;100(6):3785–93

The effect of test signal type and bandwidth on the categorical scaling of loudness. Ricketts TA, et al. **J Acoust Soc Am** 1996 Apr;99(4 Pt 1):2281–7

Perception of internally generated noise in hearing amplification. Agnew J. **J Am Acad Audiol** 1996 Aug; 7(4):296–303

Hearing aid use, central auditory disorder, and hearing handicap in elderly persons. Chmiel R, et al. **J Am Acad Audiol** 1996 Jun;7(3):190–202

Unsuccessful use of binaural amplification by an elderly person. Chmiel R, et al. **J Am Acad Audiol** 1997 Feb; 8(1):1–10

Benefit acclimatization in elderly hearing aid users. Cox RM, et al. **J Am Acad Audiol** 1996 Dec;7(6):428–41

Client Oriented Scale of Improvement (COSI) and its relationship to several other measures of benefit and satisfaction provided by hearing aids. Dillon H, et al. **J Am Acad Audiol** 1997 Feb;8(1):27–43

Real–ear polar patterns and aided directional sensitivity. Fortune TW. **J Am Acad Audiol** 1997 Apr;8(2):119–31

Evaluation of hearing aid benefit using the Shortened Hearing Aid Performance Inventory. Jerram JC, et al. **J Am Acad Audiol** 1997 Feb;8(1):18–26

Assistive devices for the elderly. Kaplan H. **J Am Acad Audiol** 1996 Jun;7(3):203–11

Guidelines for fitting multiple memory hearing aids. Keidser G, et al. **J Am Acad Audiol** 1996 Dec;7(6):406–18

Effect of hearing aid experience on preferred insertion gain selection. Kuk FK, et al. **J Am Acad Audiol** 1996 Aug; 7(4):274–81

Comparison of preferred frequency gain settings obtained with category rating and modified simplex procedure. Kuk FK, et al. **J Am Acad Audiol** 1996 Oct;7(5):322–31

Monaural/binaural preferences: effect of hearing aid circuit on speech intelligibility and sound quality. Naidoo SV, et al. **J Am Acad Audiol** 1997 Jun;8(3):188–202

Relationship of aided speech recognition to hearing thresholds and aided speech–peak sensation levels in severely and profoundly hearing–impaired adults. Parkinson AJ, et al. **J Am Acad Audiol** 1996 Oct;7(5):305–21

Consonant recognition performance of hearing–impaired listeners using one linear and three nonlinear hearing aids. Sammeth CA, et al. **J Am Acad Audiol** 1996 Aug; 7(4):240–50

Three experimental measures of a digital beamforming signal processing algorithm. Schweitzer HC, et al. **J Am Acad Audiol** 1996 Aug;7(4):230–9

Differences and intersubject variability of loudness discomfort levels measured in sound pressure level and hearing level for TDH–50P and ER–3A earphones. Valente M, et al. **J Am Acad Audiol** 1997 Feb;8(1):59–67

The bone anchored hearing aid—the third option for otosclerosis. Burrell SP, et al. **J Laryngol Otol Suppl** 1996; 21:31–7

The Birmingham bone anchored hearing aid programme: referrals, selection, rehabilitation, philosophy and adult results. Cooper HR, et al. **J Laryngol Otol Suppl** 1996; 21:13–20

Bone anchored hearing aid wearers with significant sensorineural hearing losses (borderline candidates): patients' results and opinions. Hartland SH, et al. **J Laryngol Otol Suppl** 1996;21:41–6

The bone anchored hearing aid (BAHA) in chronic suppurative otitis media (CSOM). Macnamara M, et al. **J Laryngol Otol Suppl** 1996;21:38–40

HEARING AIDS

The Birmingham bone anchored hearing aid programme: paediatric experience and results. Powell RH, et al. **J Laryngol Otol Suppl** 1996;21:21–9

The Birmingham bone anchored hearing aid programme: surgical methods and complications. Proops DW. **J Laryngol Otol Suppl** 1996;21:7–12

Speech and voice rehabilitation in selected patients fitted with a bone anchored hearing aid (BAHA). Thomas J. **J Laryngol Otol Suppl** 1996;21:47–51

An equivalent input noise level criterion for hearing aids. Macrae JH, et al. **J Rehabil Res Dev** 1996 Oct;33(4):355–62

Estimation of client-assessed hearing aid performance based upon unaided variables. Crowley HJ, et al. **J Speech Hear Res** 1996 Feb;39(1):19–27

Preference for and performance with damped and undamped hearing aids by listeners with sensorineural hearing loss. Davis LA, et al. **J Speech Hear Res** 1996 Jun;39(3):483–93

Reliability and stability of various hearing-aid outcome measures in a group of elderly hearing-aid wearers. Humes LE, et al. **J Speech Hear Res** 1996 Oct;39(5):923–35

Quality ratings for frequency-shaped peak-clipped speech: results for listeners with hearing loss. Kozma-Spytek L, et al. **J Speech Hear Res** 1996 Dec;39(6):1115–23

Effect of single-channel compression on temporal speech information. Souza PE, et al. **J Speech Hear Res** 1996 Oct; 39(5):901–11

Treatment efficacy: hearing aids in the management of hearing loss in adults. Weinstein BE. **J Speech Hear Res** 1996 Oct;39(5):S37–45

A comparison of the benefit provided by well-fit linear hearing aids and instruments with automatic reductions of low-frequency gain. Humes LE, et al. **J Speech Lang Hear Res** 1997 Jun;40(3):666–85

Surgical experience with bone-anchored hearing aids in children. Papsin BC, et al. **Laryngoscope** 1997 Jun; 107(6):801–6

Titanium-anchored prostheses in otology. Burton MJ, et al. **Otolaryngol Clin North Am** 1996 Apr;29(2):301–10 (32 ref.)

State of the art on the development of the implantable hearing device for partial hearing loss. Maniglia AJ. **Otolaryngol Clin North Am** 1996 Apr;29(2):225–43 (41 ref.)

Speech concerns of hard-of-hearing adults. Gilbertson M, et al. **Percept Mot Skills** 1996 Oct;83(2):377–8

Assessment of bone conduction prosthesis in situ. Laitakari K, et al. **Rev Laryngol Otol Rhinol (Bord)** 1995;116(4):305–7

Sound quality evaluation of anti-saturation circuitry in a hearing aid. Agnew J. **Scand Audiol** 1997;26(1):15–22

Hearing-aid pre-selection through a neural network. Arntsen O, et al. **Scand Audiol** 1996;25(4):259–62

The Valby Project. A survey of the hearing in the elderly > or = 80 years of age-provided with hearing aids. Bech B, et al. **Scand Audiol** 1996;25(4):247–52

The Valby Project: a survey of hearing in the elderly > or = 80 years of age not provided with hearing aids. Biering-Sørensen M, et al. **Scand Audiol** 1997;26(1):33–41

The long-term effect of early telephone intervention on hearing aid success. Cherry R, et al. **Scand Audiol** 1995; 24(4):243–6

Loudness discomfort levels and saturation levels in hearing aids prescribed for young persons. Israelsson B, et al. **Scand Audiol** 1995;24(4):257–64

Adaptive fitting of hearing instruments by category loudness scaling (ScalAdapt). Kiessling J, et al. **Scand Audiol** 1996; 25(3):153–60

Hearing disability assessment in evaluating hearing aid benefit. Marttila TI, et al. **Scand Audiol** 1996;25(2):121–5

Sound quality judgment during acclimatization of hearing aid. Ovegård A, et al. **Scand Audiol** 1997;26(1):43–51

Audio-visual speechreading in a group of hearing aid users. The effects of onset age, handicap age, and degree of hearing loss. Tillberg I, et al. **Scand Audiol** 1996; 25(4):267–72

[Principles and limits of auditory equipment] Bonnin JC. **Rev Laryngol Otol Rhinol (Bord)** 1995;116(4):245–8 (Eng. Abstr.) **(Fre)**

[Development of a piezo-electrical vibrator for middle ear implant. State of research] Dumon T, et al. **Rev Laryngol Otol Rhinol (Bord)** 1995;116(4):309–12 (Eng. Abstr.) **(Fre)**

[Bone anchored hearing aid: the Bordeaux experience] Portmann D, et al. **Rev Laryngol Otol Rhinol (Bord)** 1995; 116(4):299–300 (Eng. Abstr.) **(Fre)**

[Procedure of fitting in early rehabilitation] Renglet T. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(4):293–302 (Eng. Abstr.) **(Fre)**

[Prosthetic alternatives] Renglet T. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(4):303–11 (Eng. Abstr.) **(Fre)**

[Bone anchored hearing aids (Audiant): long-term use] Whitehead E. **Rev Laryngol Otol Rhinol (Bord)** 1995; 116(4):301–3 (Eng. Abstr.) **(Fre)**

[Quality control in pediatric hearing aid fitting] Niehaus HH, et al. **HNO** 1997 Feb;45(2):86–90 (Eng. Abstr.) **(Ger)**

[Change in guidelines concerning healing and helping aids in prescribing hearing devices] Ptok M. **HNO** 1996 Jan; 44(1):4–5 **(Ger)**

[Responsible use of modern hearing aid technology. III: Improved speech discrimination in noise. Modern hearing aid technology in pediatric management] Steffens T. **HNO** 1997 May;45(5):403–14 **(Ger)**

[Speech audiometry with logatomes] Welge-Lüssen A, et al. **Laryngorhinootologie** 1997 Feb;76(2):57–64 (Eng. Abstr.) **(Ger)**

[Aspects of auditory speech perception in cochlear implant and hearing aid managed children] Junge FM, et al. **Wien Med Wochenschr** 1997;147(10):255–8 (Eng. Abstr.) **(Ger)**

[Implantable bone conduction hearing aids] Matschke RG. **Wien Med Wochenschr** 1997;147(10):239–43 (17 ref.) (Eng. Abstr.) **(Ger)**

[Bone conduction hearing aids with fluid medium] Siegert R, et al. **Wien Med Wochenschr** 1997;147(10):244–8 (Eng. Abstr.) **(Ger)**

[Long-term observation of sensorineural hearing-impaired children with hearing aids] Sugiuchi T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jul;100(7):754–61 (Eng. Abstr.) **(Jpn)**

[A study on the effect of slower speech rate produced by the speech rate converter] Watanabe K. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Mar;99(3):445–53 (Eng. Abstr.) **(Jpn)**

[Current problems of pediatric audiology. Part II. Fitting of hearing aids, cochlear implants and care of the child with hearing loss] Heinemann M. **Otolaryngol Pol** 1996; 50(1):66–72 (20 ref.) (Eng. Abstr.) **(Pol)**

[The use of osseointegration of hearing aids] Portmann D, et al. **Otolaryngol Pol** 1995;49(6):543–8 (Eng. Abstr.) **(Pol)**

ADVERSE EFFECTS

[Progressive hearing loss in children with hearing aids] Streppel M, et al. **Laryngorhinootologie** 1997 Mar; 76(3):123–6 (Eng. Abstr.) **(Ger)**

[No evidence for hearing aid-induced progressive pediatric hearing loss in the Cologne region] Streppel M, et al. **Wien Med Wochenschr** 1997;147(10):234–8 (Eng. Abstr.) **(Ger)**

HISTORY

[Hearing aids through the ages] Lacher Fougère S, et al. **Rev Laryngol Otol Rhinol (Bord)** 1995;116(4):243–4 (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Psychological effects of hearing aid use in older adults. Tesch-Römer C. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52(3):P127–38

Hearing aid use and benefit and uptake of aural rehabilitation services by New Zealand hearing aid wearers. Jerram JC, et al. **N Z Med J** 1996 Nov 22;109(1034):450–1

[Use of hearing aids by the elderly: correlation between intention and behavior] Wiesner M, et al. **Z Gerontol Geriatr** 1996 Jul-Aug;29(4):273–9 (Eng. Abstr.) **(Ger)**

STANDARDS

Comparison of two hearing aid receiver-amplifier combinations using sound quality judgments. Palmer CV, et al. **Ear Hear** 1995 Dec;16(6):587–98

Mechanical, acoustic and electromagnetic evaluation of the semi-implantable middle ear hearing device (SIMEHD). Abbass HA, et al. **Ear Nose Throat J** 1997 May;76(5):321–7

Recent developments in air-conduction hearing aids. Arlinger S. **Ear Nose Throat J** 1997 May;76(5):310–5 (7 ref.)

Semi-implantable middle ear electromagnetic hearing device for sensorineural hearing loss. Maniglia AJ, et al. **Ear Nose Throat J** 1997 May;76(5):333–8, 340–1

Gain, frequency response, and maximum output requirements for hearing aids. Macrae JH, et al. **J Rehabil Res Dev** 1996 Oct;33(4):363–76

[Criteria for choosing a hearing aid] Mudry A. **Rev Med Suisse Romande** 1997 Jun;117(6):509–12 (16 ref.) **(Fre)**

UTILIZATION

Sociodemographic correlates of hearing loss and hearing aid use in Hispanic adults. Lee DJ, et al. **Epidemiology** 1996 Jul;7(4):443–6

Hearing aid selection for the 1990s: where to? Byrne D. **J Am Acad Audiol** 1996 Dec;7(6):377–95 (68 ref.)

HEARING DISORDERS

Educational programs for deaf students. **Am Ann Deaf** 1997 Apr;142(2):107–208

Gender differences in Wechsler performance scores of school-age children who are deaf or hard of hearing. Slate JR, et al. **Am Ann Deaf** 1996 Mar;141(1):19–23

Factors in subjective hearing disability. Kramer SE, et al. **Audiology** 1995 Nov-Dec;34(6):311–20

The performance of hearing-impaired children on handedness and perceptual motor tasks. Ittyerah M, et al. **Genet Soc Gen Psychol Monogr** 1997 Aug;123(3):285–302

Hard of hearing and getting harder! Edwards K. **Ir Med J** 1997 Apr-May;90(3):108

Dietitians can and should communicate with older adults with hearing and vision impairments and communication disorders. Wright KJ, et al. **J Am Diet Assoc** 1997 Feb; 97(2):174–6

[Legislative and statutory protection of the hearing-impaired population] Vincey P. **Rev Laryngol Otol Rhinol (Bord)** 1995;116(4):249–53 (Eng. Abstr.) **(Fre)**

CHEMICALLY INDUCED

Quinine-induced hearing loss in the guinea pig is not affected by the Ca2+ channel antagonist verapamil. Jäger W, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):46–8

Similar pharmacokinetics and differential ototoxicity after administration with cisplatin and transplatin in guinea pigs. Saito T, et al. **Acta Otolaryngol (Stockh)** 1997 Jan; 117(1):61–5

Topical gentamicin-induced hearing loss: a mitochondrial ribosomal RNA study of genetic susceptibility. Chen JM, et al. **Am J Otol** 1996 Nov;17(6):850–2

Mitochondrial gene mutation is a significant predisposing factor in aminoglycoside ototoxicity. Fischel-Ghodsian N, et al. **Am J Otolaryngol** 1997 May-Jun;18(3):173–8

Ototoxic effect of erythromycin on cochlear potentials in the guinea pig. Kobayashi T, et al. **Ann Otol Rhinol Laryngol** 1997 Jul;106(7 Pt 1):599–603

Once-daily aminoglycoside therapy: potential ototoxicity [letter; comment] Kirkpatrick CM, et al. **Antimicrob Agents Chemother** 1997 Apr;41(4):879–80. Comment on: Antimicrob Agents Chemother 1996 Sep;40(9):2209–11.

Hearing loss and antiretroviral therapy in patients infected with HIV-1. Marra CM, et al. **Arch Neurol** 1997 Apr; 54(4):407–10

Calcium supplementation and ototoxicity in patients receiving cisplatin. Grau JJ, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):233–5

A meta-analysis of the relative efficacy and toxicity of single daily dosing versus multiple daily dosing of aminoglycosides [see comments] Ali MZ, et al. **Clin Infect Dis** 1997 May;24(5):796–809. Comment in: Clin Infect Dis 1997 May;24(5):816–9. Comment in: Clin Infect Dis 1997 May;24(5):820–3.

A meta-analysis of extended-interval dosing versus multiple daily dosing of aminoglycosides [see comments] Bailey TC, et al. **Clin Infect Dis** 1997 May;24(5):786–95. Comment in: Clin Infect Dis 1997 May;24(5):816–9. Comment in: Clin Infect Dis 1997 May;24(5):820–3.

Single daily dosing of aminoglycosides in immunocompromised adults: a systematic review [see comments] Hatala R, et al. **Clin Infect Dis** 1997 May; 24(5):810–5 (37 ref.). Comment in: Clin Infect Dis 1997 May;24(5):816–9. Comment in: Clin Infect Dis 1997 May;24(5):820–3.

Drug-induced tinnitus and other hearing disorders. Seligmann H, et al. **Drug Saf** 1996 Mar;14(3):198–212 (168 ref.)

Mechanism and prevention of aminoglycoside ototoxicity: outer hair cells as targets and tools. Priuska EM, et al. **Ear Nose Throat J** 1997 Mar;76(3):164–6, 168, 170–1 (52 ref.)

Hearing thresholds of workers in a printing facility. Farahat TM, et al. **Environ Res** 1997;73(1-2):189–92

Solvents and hearing loss [letter; comment] Henderson D. **J Am Acad Audiol** 1996 Oct;7(5):375. Comment on: J Am Acad Audiol 1995 Sep;6(5):351–7.

Desferrioxamine ototoxicity in an adult transfusion-dependent population. Chiodo AA, et al. **J Otolaryngol** 1997 Apr;26(2):116–22

CLASSIFICATION

Hearing in 55 to 75 year old people in northern Finland—a comparison of two classifications of hearing impairment. Uimonen S, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:69–70

COMPLICATIONS

Vestibular abnormalities in charge association. Murofushi T, et al. **Ann Otol Rhinol Laryngol** 1997 Feb;106(2):129–34

Turner's syndrome and hearing disorders in women aged 16–34. Hultcrantz M, et al. **Hear Res** 1997 Jan; 103(1-2):69–74

Factors associated with staff support and resident lifestyle in services for people with multiple disabilities: a path analytic approach. Hatton C, et al. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):466–77

Endolymphatic sac tumors. A source of morbid hearing loss in von Hippel-Lindau disease. Manski TJ, et al. **JAMA** 1997 May 14;277(18):1461–6

[Hypoacusis and diabetes type II] Acuña García M, et al. **An Otorrinolaringol Ibero Am** 1997;24(2):123–33 (Eng. Abstr.) **(Spa)**

CONGENITAL

The relationship between audit, research and policy: lessons from a community paediatric audiology service. Fonseca S, et al. **Child Care Health Dev** 1997 Jan;23(1):63–76

[Current issues of pediatric audiology. Part I. Etiology and diagnosis of congenital and perinatally acquired hearing disorders] Heinemann M. **Otolaryngol Pol** 1995; 49(6):586–92 (Eng. Abstr.) **(Pol)**

DIAGNOSIS

Abnormal audiograms and elevated acoustic reflex thresholds in obligate carriers of autosomal recessive non-syndromic hearing loss. Cohen M, et al. **Acta Otolaryngol (Stockh)** 1997 May;117(3):337–42

Numerical assessment of TOAE screening results: currently used criteria and their effect on TOAE prevalence figures. Dirckx JJ, et al. **Acta Otolaryngol (Stockh)** 1996 Sep; 116(5):672–9

New speech–in–noise test in different types of hearing impairment. Holma T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:71–3

Neonatal hearing screening with an automated auditory brainstem response screener in the infant's home. Oudesluys–Murphy AM, et al. **Acta Paediatr** 1997 Jun; 86(6):651–5

Hearing assessment in children with stapedius reflex threshold measurements—an alternative objective approach. Jauhiainen T, et al. **Adv Otorhinolaryngol** 1997; 51:1–7

Hearing, speech, language, and vestibular disorders in the fetal alcohol syndrome: a literature review. Church MW, et al. **Alcohol Clin Exp Res** 1997 May;21(3):495–512 (163 ref.)

Perspectives on a state enacted hearing screening assessment program in the newborn population. Abrams MJ, et al. **Am J Otol** 1997 May;18(3):368–72

Evaluation of the nonorganic hearing loss suspect. Durrant JD, et al. **Am J Otol** 1997 May;18(3):361–7

Audiovestibular results after surgery for cerebellopontine angle meningiomas. Grey PL, et al. **Am J Otol** 1996 Jul; 17(4):634–8

Investigation of the 4,000–Hertz dip by detailed audiometry. Murai K. **Ann Otol Rhinol Laryngol** 1997 May; 106(5):408–13

Impedance audiometry in newborns of abnormal deliveries. Pliszczyńska–Brennenstuhl M, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:55–8

Intelligibility of Dutch CVC syllables and sentences for listeners with normal hearing and with three types of hearing impairment. Bosman AJ, et al. **Audiology** 1995 Sep–Oct;34(5):260–84

Neonatal hearing screening programs in Europe: towards a consensus development conference [editorial] Grandori F, et al. **Audiology** 1996 Nov–Dec;35(6):291–5

The use of an open–ended questionnaire to identify positive aspects of acquired hearing loss. Kerr PC, et al. **Audiology** 1997 Jan–Feb;36(1):19–28

Audioscan: a high–definition audiometry technique based on constant–level frequency sweeps—a new method with new hearing indicators. Meyer–Bisch C. **Audiology** 1996 Mar–Apr;35(2):63–72

The effect of neonatal universal hearing screening in a health surveillance perspective—a controlled study of two health authority districts. Parving A, et al. **Audiology** 1996 May–Jun;35(3):158–68

Influence of acquisition parameters on the measurement of click evoked otoacoustic emissions in neonates in a hospital environment. Welch D, et al. **Audiology** 1996 May–Jun; 35(3):143–57

Evaluation of the E2L toy test as a screening procedure in clinical practice. Bellman S, et al. **Br J Audiol** 1996 Aug; 30(4):286–96

Audiological and psychological characteristics of a group of tinnitus sufferers, prior to tinnitus management training. Dineen R, et al. **Br J Audiol** 1997 Feb;31(1):27–38

Auditory performance and acoustic reflexes in young adults reporting listening difficulties. Higson JM, et al. **Br J Audiol** 1996 Dec;30(6):381–7

Who prompts patients to consult about hearing loss? Mahoney CF, et al. **Br J Audiol** 1996 Jun;30(3):153–8

Concept of the notional person in the assessment of hearing disability. Robinson DW, et al. **Br J Audiol** 1996 Feb; 30(1):45–54

Feasibility of acoustic distortion product testing in newborns. Sheppard SL, et al. **Br J Audiol** 1996 Aug;30(4):261–74

The views of parents of hearing impaired children on the need for neonatal hearing screening. Watkin PM, et al. **Br J Audiol** 1995 Oct;29(5):259–62

Changing performance of the Health Visitor Distraction Test when targeted neonatal screening is introduced into a health district. Wood S, et al. **Br J Audiol** 1997 Feb; 31(1):55–61

Otoacoustic emissions: assessment of hearing after tympanostomy tube insertion. Daya H, et al. **Clin Otolaryngol** 1996 Dec;21(6):492–4

Audiological correlates of speech understanding deficits in elderly listeners with mild–to–moderate hearing loss. II. Correlation analysis. Divenyi PL, et al. **Ear Hear** 1997 Apr; 18(2):100–13

Age of suspicion, identification, and intervention for infants and young children with hearing loss: a national study. Harrison M, et al. **Ear Hear** 1996 Feb;17(1):55–62

A role for otoacoustic emissions in screening for hearing impairment and middle ear disorders in school–age children. Nozza RJ, et al. **Ear Hear** 1997 Jun;18(3):227–39

Transient evoked otoacoustic emissions: feasibility in the nursery. Salamy A, et al. **Ear Hear** 1996 Feb;17(1):42–8

Refinement and psychometric evaluation of the Attitudes Toward Loss of Hearing Questionnaire. Saunders GH, et al. **Ear Hear** 1996 Dec;17(6):505–19

Identification of pseudohypacusis using speech recognition thresholds. Schlauch RS, et al. **Ear Hear** 1996 Jun; 17(3):229–36

Word recognition in continuous and interrupted broadband noise by young normal–hearing, older normal–hearing, and presbyacusic listeners. Stuart A, et al. **Ear Hear** 1996 Dec; 17(6):478–89

Magnetic resonance imaging of patients with large vestibular aqueducts. Okumura T, et al. **Eur Arch Otorhinolaryngol** 1996;253(7):425–8

A proposal for standardization of speech and hearing evaluations to assess velopharyngeal function. Hirschberg J, et al. **Folia Phoniatr Logop** 1997;49(3–4):158–67

A re–examination of risk estimates from the NIOSH Occupational Noise and Hearing Survey (ONHS). Prince MM, et al. **J Acoust Soc Am** 1997 Feb;101(2):950–63

Hearing deficits measured in some Tursiops truncatus, and discovery of a deaf/mute dolphin. Ridgway SH, et al. **J Acoust Soc Am** 1997 Jan;101(1):590–4

Stimulus variability and spoken word recognition. II. The effects of age and hearing impairment. Sommers MS. **J Acoust Soc Am** 1997 Apr;101(4):2278–88

Risk factors related to age–associated hearing loss in the speech frequencies. Brant LJ, et al. **J Am Acad Audiol** 1996 Jun;7(3):152–60

Screening for hearing loss in juvenile detention centers. Holmes AE, et al. **J Am Acad Audiol** 1996 Oct;7(5):332–8

Interexaminer reliability of otoscopic signs and tympanometric measures for older adults. Nondahl DM, et al. **J Am Acad Audiol** 1996 Aug;7(4):251–9

Validity of the ipsilateral acoustic reflex as a screening parameter. Sells JP, et al. **J Am Acad Audiol** 1997 Apr; 8(2):132–6

Tympanometric measures in older adults. Wiley TL, et al. **J Am Acad Audiol** 1996 Aug;7(4):260–8

Sensitivity and specificity of the neonatal brain–stem auditory evoked potential for hearing and language deficits in survivors of extracorporeal membrane oxygenation. Desai S, et al. **J Pediatr** 1997 Aug;131(2):233–9

Choice, advice and assessment of patients for ear surgery. Browning GG. **J R Soc Med** 1996 Oct;89(10):571–6 (6 ref.)

Older adult performance on the communication profile for the hearing impaired. Garstecki DC, et al. **J Speech Hear Res** 1996 Feb;39(1):28–42

Extended high–frequency thresholds in older adults. Matthews LJ, et al. **J Speech Lang Hear Res** 1997 Feb; 40(1):208–14

A preliminary account of the effect of otitis media on 15–month–olds' categorization and some implications for early language learning. Roberts K. **J Speech Lang Hear Res** 1997 Jun;40(3):508–18

Adult screening for hearing. **Nurse Pract** 1996 Jun; 21(6):106–8, 115

Speaking tubes for bedside use [letter] Armstrong M Jr, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):585

Neonatal hearing screening with otoscopy, auditory brain stem response, and otoacoustic emissions. Doyle KJ, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):597–603

Failure rates of young patients with sickle cell disease on a hearing screening test. Gentry B, et al. **Percept Mot Skills** 1997 Apr;84(2):434

Event–related potential correlates of functional hearing loss: reduced P3 amplitude with preserved N1 and N2 components in a unilateral case. Fukuda M, et al. **Psychiatry Clin Neurosci** 1996 Apr;50(2):85–7

Auditory deficits and hearing loss associated with focal brainstem haemorrhage. Cohen M, et al. **Scand Audiol** 1996; 25(2):133–41

Hearing thresholds in four–year–old children with weak or no transient–evoked otoacoustic emissions. Grenner J, et al. **Scand Audiol** 1997;26(2):107–11

Transient–evoked otoacoustic emissions. Helpful tool in the detection of pseudohypacusis. Kvaerner KJ, et al. **Scand Audiol** 1996;25(3):173–7

Primary physicians and the elderly hearing–impaired. Actions and attitudes. Parving A, et al. **Scand Audiol** 1996; 25(4):253–8

Determinants of speech–hearing disability in King–Kopetzky syndrome. Zhao F, et al. **Scand Audiol** 1996;25(2):91–6

Audiologic evaluation and management of adults with auditory processing disorders. Baran JA. **Semin Speech Lang** 1996 Aug;17(3):233–44

[Guidelines for diagnosis and treatment of hard–of–hearing subjects with a mental handicap. Dutch Society of Physicians in care for the Mentally Disabled. Society for Promotion of Expertise in the Care of Subjects with Mental Handicap. Central Support Agency for Inter–collegiate Testing (NVAZ; NGBZ; CBO)] Evenhuis HM. **Ned Tijdschr Geneeskd** 1996 Sep 14;140(37):1851–4 **(Dut)**

[Criteria for choosing a hearing aid] Mudry A. **Rev Med Suisse Romande** 1997 Jun;117(6):509–12 (16 ref.) **(Fre)**

[Comments on the contribution by P. Plath. Comments on the revision of the Königstein Guidelines (letter; comment)] Blome O, et al. **HNO** 1997 May;45(5):356–8; discussion 358–9. Comment on: HNO 1996 Aug;44(8):431–9. **(Ger)**

[Quality assurance in audiology and pediatric audiology (see comments] Welzl–Müller K. **HNO** 1996 Jul;44(7):385–92 (26 ref.) (Eng. Abstr.). Comment in: HNO 1996 Jul;44(7):357. **(Ger)**

[The study of factors affecting ABR in high risk newborn infants] Castello E, et al. **Acta Otorhinolaryngol Ital** 1995 Aug;15(4):265–72 (Eng. Abstr.) **(Ita)**

[Tympanic electrocochleography with disposable electrode] Matsuura K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jul;99(7):1016–25 (Eng. Abstr.) **(Jpn)**

[Current issues of pediatric audiology. Part I. Etiology and diagnosis of congenital and perinatally acquired hearing disorders] Heinemann M. **Otolaryngol Pol** 1995; 49(6):586–92 (Eng. Abstr.) **(Pol)**

[Report of scientific workshop on the topic "Early identification of hearing disorders by otoemission. Florence, May 1–2, 1995] Jędrusik A. **Otolaryngol Pol** 1996; 50(1):112–5 **(Pol)**

[Report from the 3rd International Conference on the topic "Diagnosis, treatment and rehabilitation of hearing disorders", Sept. 11–14, 1995, Warszawa] Kosmalowa J, et al. **Otolaryngol Pol** 1996;50(4):460–4 **(Pol)**

[Cephalometric measurements of nasopharyngeal and palatal flow in cleft palate children by comparison with hearing impairment] Kubik P, et al. **Otolaryngol Pol** 1996; 50(1):81–90 (Eng. Abstr.) **(Pol)**

[Comment on the organization of the hearing screening in children] Obrębowski A, et al. **Otolaryngol Pol** 1996; 50(3):300–5 (Eng. Abstr.) **(Pol)**

[Report from the 2nd Polish–German Symposium on the topic "Treatment of hearing disorders", Warszawa, May 15–16, 1995] Skarzyński H. **Otolaryngol Pol** 1996; 50(4):457–9 **(Pol)**

[Examination methods of central hearing disturbances] Zaleski T. **Otolaryngol Pol** 1996;50(4):435–44 (Eng. Abstr.) **(Pol)**

[Evaluation of hearing in children with Down syndrome in light of brain–stem auditory evoked potentials] Pilecki W, et al. **Pediatr Pol** 1996 Mar;71(3):217–21 (Eng. Abstr.) **(Pol)**

[The diagnosis of damages to the auditory system in the early period of explosive mine trauma and the optimization of treatment for the victims] Ianov IuK, et al. **Voen Med Zh** 1997 Apr;318(4):26–31, 80 (Eng. Abstr.) **(Rus)**

[The comparative characteristics of the otoneurological disorders and of the computed and magnetic resonance tomographic data in tumors of the pineal area] Blagoveshchenskaia NS, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr–Jun; (2):10–4 (Eng. Abstr.) **(Rus)**

[Acoustic masking and Feldmann curves in tinnitus. Clinical study] González Méndez MV, et al. **Acta Otorrinolaringol Esp** 1996 Nov–Dec;47(6):438–40 (Eng. Abstr.) **(Spa)**

[Early diagnosis of neonatal hearing loss] Marco Algarra J, et al. **Acta Otorrinolaringol Esp** 1996 May–Jun;47(3):255–7 **(Spa)**

[The clinical significance of auditory evoked potentials of the brainstem in neonates] Rodríguez–Gómez J, et al. **Rev Neurol** 1997 Jul;25(143):1031–3 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

An ear and hearing survey in northeast Thailand by the Bangkok Otological Center, Siriraj Hospital, Mahidol University. Prasansuk S, et al. **Adv Otorhinolaryngol** 1997; 51:12–28

Risk factors associated with hearing loss in neonates. Kountakis SE, et al. **Am J Otolaryngol** 1997 Mar–Apr; 18(2):90–3

Cranial nerve and hearing function after combined–approach surgery for glomus jugulare tumors. Gjuric M, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):949–54

Prevalence of severe to profound sensorineural hearing loss in children having family members with hearing impairment. Zakzouk SM, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):882–6

Type of initial brainstem auditory evoked potentials (BAEP) impairment and risk factors in premature infants. Ferber–Viart C, et al. **Brain Dev** 1996 Jul–Aug;18(4):287–93

Newborn hearing screening by otoacoustic emissions and automated auditory brainstem response. Doyle KJ, et al. **Int J Pediatr Otorhinolaryngol** 1997 Aug 20;41(2):111–9

Childhood hearing loss in sub–Saharan Africa: a review and recommendations. McPherson B, et al. **Int J Pediatr Otorhinolaryngol** 1997 May 4;40(1):1–18 (88 ref.)

Prevalence and mechanisms of hearing loss in patients with resistance to thyroid hormone. Brucker–Davis F, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2768–72

A study of the prevalence of and risk factors for ear diseases and hearing loss in primary school children in Hat Yai, Thailand. Chayarpham S, et al. **J Med Assoc Thai** 1996 Jul;79(7):468–72

Sociodemographic and educational correlates of hearing loss in Hispanic children. Lee DJ, et al. **Paediatr Perinat Epidemiol** 1997 Jul;11(3):333–44

Hearing in the elderly > or = 80 years of age. Prevalence of problems and sensitivity. Parving A, et al. **Scand Audiol** 1997;26(2):99–106

[Reduced vision and hearing among immigrant students in Malmö (letter)] Gullstrand S. **Lakartidningen** 1996 Sep 18; 93(38):3222 **(Swe)**

ETIOLOGY

Influence of blood supply, thermal and mechanical traumata on hearing function in an animal model. Braun V, et al. **Acta Neurochir (Wien)** 1996;138(8):977–82

Hearing loss and vestibular dysfunction in Menière's disease. Katsarkas A. **Acta Otolaryngol (Stockh)** 1996 Mar; 116(2):185–8

Evaluation of the nonorganic hearing loss suspect. Durrant

JD, et al. **Am J Otol** 1997 May;18(3):361–7
Long–term effects of Ménière's disease on hearing and quality of life. Kinney SE, et al. **Am J Otol** 1997 Jan;18(1):67–73
Hearing loss (in nonoperated ears) in relation to age in osteogenesis imperfecta type I. Garretsen AJ, et al. **Ann Otol Rhinol Laryngol** 1997 Jul;106(7 Pt 1):575–82 (23 ref.)
Neuro–otological findings after radiosurgery for acoustic neurinomas. Ito K, et al. **Arch Otolaryngol Head Neck Surg** 1996 Nov; 122(11):1229–33
Inner ear disorders due to pressure change. Kozuka M, et al. **Clin Otolaryngol** 1997 Apr;22(2):106–10
Cochlear amplification and its pathology: emphasis on the role of the tectorial membrane. Gummer AW, et al. **Ear Nose Throat J** 1997 Mar;76(3):151–8, 160, 162–3 (95 ref.)
Meniere's disease of syphilitic etiology. Pulec JL. **Ear Nose Throat J** 1997 Aug;76(8):508–10, 512 514, passim
Hearing anomalies following radiation therapy for head and neck cancers. Varghese G, et al. **Indian J Exp Biol** 1996 Sep;34(9):878–9
Pure word deafness after resection of a tectal plate glioma with preservation of wave V of brain stem auditory evoked potentials [letter] Meyer B, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):423–4
Otolaryngologic manifestations of neurofibromatosis in children. Sobol SE, et al. **J Otolaryngol** 1997 Feb;26(1):13–9 (39 ref.)
Neurodevelopmental profile of Down syndrome in Chinese children. Kwong KL, et al. **J Paediatr Child Health** 1996 Apr;32(2):153–7
Evaluation of auditory system in preschool children whose mothers had mid–second trimester amniocentesis. Annapoorna V, et al. **J Perinat Med** 1996;24(3):207–12
Hearing and diabetes. de España R, et al. **ORL J Otorhinolaryngol Relat Spec** 1995 Nov–Dec; 57(6):325–7
Effectiveness of hyperbaric oxygen therapy in patients with acute and chronic cochlear disorders. Kau RJ, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):79–83
Iron deficiency anemia and hearing. Ozturan O, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):73–8
Medicolegal aspects of neurotology. Hart CW, et al. **Otolaryngol Clin North Am** 1996 Jun;29(3):503–20 (29 ref.)
Auditory deficits and hearing loss associated with focal brainstem haemorrhage. Cohen M, et al. **Scand Audiol** 1996; 25(2):133–41
Dose–response relationship between smoking and impairment of hearing acuity in workers exposed to noise. Virokannas H, et al. **Scand Audiol** 1995;24(4):211–6
Hearing loss and headache revealing lateral sinus thrombosis in a patient with factor V Leiden mutation [letter] Crassard I, et al. **Stroke** 1997 Apr;28(4):876–8
[A case of hearing loss caused by overdrainage of cerebrospinal fluid after ventriculo–peritoneal shunting procedure] Miyazaki Y, et al. **No Shinkei Geka** 1997 Apr; 25(4):367–71 (Eng. Abstr.) **(Jpn)**
[The influence of the Co–60 therapy on the hearing in laryngeal cancers] Namysłowski G, et al. **Otolaryngol Pol** 1996;50(3):286–90 (Eng. Abstr.) **(Pol)**
[Gentamycin as a cause of hearing impairment in children treated at the Phoniatric Outpatient Clinic in Zabrze between 1987–1992] Namysłowski G, et al. **Pediatr Pol** 1996 Feb;71(2):117–20 (Eng. Abstr.) **(Pol)**
[Berger's disease and acquired sensorineural hearing loss] Ramirez Ponferrada R, et al. **Acta Otorrinolaringol Esp** 1997 Mar;48(2):147–51 (Eng. Abstr.) **(Spa)**

GENETICS

Abnormal audiograms and elevated acoustic reflex thresholds in obligate carriers of autosomal recessive non–syndromic hearing loss. Cohen M, et al. **Acta Otolaryngol (Stockh)** 1997 May;117(3):337–42
Dips on Békésy or audioscan fail to identify carriers of autosomal recessive non–syndromic hearing loss. Cohen M, et al. **Acta Otolaryngol (Stockh)** 1996 Jul;116(4):521–7
Topical gentamicin–induced hearing loss: a mitochondrial ribosomal RNA study of genetic susceptibility. Chen JM, et al. **Am J Otol** 1996 Nov;17(6):850–2
Mitochondrial gene mutation is a significant predisposing factor in aminoglycoside ototoxicity. Fischel–Ghodsian N, et al. **Am J Otolaryngol** 1997 May–Jun;18(3):173–8
Prevalence of severe to profound sensorineural hearing loss in children having family members with hearing impairment. Zakzouk SM, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):882–6
Myosin VIIa, the product of the Usher 1B syndrome gene, is concentrated in the connecting cilia of photoreceptor cells. Liu X, et al. **Cell Motil Cytoskeleton** 1997; 37(3):240–52
Thyroid disease and hearing disorders: new genetic links. Leedman PJ. **Eur J Endocrinol** 1996 Oct;135(4):394–5
Shaker mice and a peek into the House of Usher. Saw D Jr, et al. **Exp Anim** 1997 Jan;46(1):1–9 (50 ref.)
Hyperacusis in Williams syndrome: a sample survey study. Van Borsel J, et al. **Genet Couns** 1997;8(2):121–6
Detection of a megabase deletion in a patient with branchio–oto–renal syndrome (BOR) and tricho–rhino–phalangeal syndrome (TRPS): implications for mapping and cloning the BOR gene. Gu JZ, et al. **Genomics** 1996 Jan 15;31(2):201–6
Genetic heterogeneity of Usher syndrome type II in a Dutch population. Pieke–Dahl S, et al. **J Med Genet** 1996 Sep; 33(9):753–7
Possible autosomal recessive inheritance of progressive hearing loss with stapes fixation. Thies C, et al. **J Med Genet** 1996 Jul;33(7):597–9

NURSING

Assessment and management of sensory loss in elderly patients. Larsen PD, et al. **AORN J** 1997 Feb;65(2):432–7
The Roy Adaptation Model: a consideration of its properties as a conceptual framework for an intervention study. Tolson D, et al. **J Adv Nurs** 1996 Nov;24(5):981–7

PATHOLOGY

Histopathologic observations of the aging gerbil cochlea. Adams JC, et al. **Hear Res** 1997 Feb;104(1–2):101–11
Anatomical basis of a congenital hearing impairment: basilar papilla dysplasia in the Belgian Waterslager canary. Weisleder P, et al. **J Comp Neurol** 1996 May 27; 369(2):292–301
The spontaneous appearance of hair cell–like cells in the mammalian cochlea following aminoglycoside ototoxicity. Romand R, et al. **Neuroreport** 1996 Dec 20;8(1):133–7

PHYSIOPATHOLOGY

Brain stem auditory–evoked potentials of mice with experimental allergic encephalomyelitis. Watanabe T, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):905–15
Cochlear implant efficiency in pre– and postlingually deaf subjects. A study with H2(15)O and PET. Okazawa H, et al. **Brain** 1996 Aug;119 (Pt 4):1297–306
Effect of prostaglandin E1 on the rat inner ear microvascular thrombosis. Umemura K, et al. **Gen Pharmacol** 1997 Feb; 28(2):221–4
Prevalence and mechanisms of hearing loss in patients with resistance to thyroid hormone. Brucker–Davis F, et al. **J Clin Endocrinol Metab** 1996 Aug;81(8):2768–72
6–year impact of hearing impairment on psychosocial and physiologic functioning [letter] Wallhagen MI, et al. **Nurse Pract** 1996 Sep;21(9):11–4
[Relationship between distortion product otoacoustic emissions and pure tone thresholds in normal and hearing–impaired ears] Chida E, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Apr;100(4):436–43 (Eng. Abstr.) **(Jpn)**
[Relationship between distortion product otoacoustic emissions and frequency discrimination in normal–hearing and hearing–impaired ears] Tanaka Y. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Jan;99(1):65–78 (Eng. Abstr.) **(Jpn)**
[Report of scientific workshop on the topic "Early identification of hearing disorders by otoemission. Florence, May 1–2, 1995] Jędrusik A. **Otolaryngol Pol** 1996; 50(1):112–5 **(Pol)**
[Electrophysiologic studies of auditory function in normal and hearing–impaired children] Alieva ZS, et al. **Fiziol Cheloveka** 1996 Sep–Oct;22(5):62–7 **(Rus)**

PREVENTION & CONTROL

Hearing preservation surgery for acoustic neuroma. Somers T, et al. **Acta Otorhinolaryngol Belg** 1996;50(3):227–35
Neonatal otoacoustic emission screening (OAE) for deafness: psychological costs [letter; comment] Lang DV. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F143. Comment on: Arch Dis Child Fetal Neonatal Ed 1996 Jan;74(1):F16–25.
Calcium supplementation and ototoxicity in patients receiving cisplatin. Grau JJ, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):233–5
The relationship between audit, research and policy: lessons from a community paediatric audiology service. Fonseca S, et al. **Child Care Health Dev** 1997 Jan;23(1):63–76
Transforming growth factor alpha treatment alters intracellular calcium levels in hair cells and protects them from ototoxic damage in vitro. Staecker H, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):553–62
Childhood hearing loss in sub–Saharan Africa: a review and recommendations. McPherson B, et al. **Int J Pediatr Otorhinolaryngol** 1997 May 4;40(1):1–18 (88 ref.)
Protection from gentamicin ototoxicity by iron chelators in guinea pig in vivo. Song BB, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):369–77
Individualizing hearing preservation in acoustic neuroma surgery. Arriaga MA, et al. **Laryngoscope** 1997 Aug; 107(8):1043–7
Hearing impairment among young Chinese in a rural area. Morioka I, et al. **Public Health** 1996 Sep;110(5):293–7

PSYCHOLOGY

Acquired hearing loss: social and psychological issues and adjustment processes. Rutman D, et al. **Int J Rehabil Res** 1995 Dec;18(4):313–23
Windows to their world: the effect of sensory impairments on social engagement and activity time in nursing home residents. Resnick HE, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52(3):S135–44
6–year impact of hearing impairment on psychosocial and physiologic functioning [letter] Wallhagen MI, et al. **Nurse Pract** 1996 Sep;21(9):11–4
The stigma attached to hearing impairment. Hétu R. **Scand Audiol Suppl** 1996;43:12–24 (50 ref.)

RADIONUCLIDE IMAGING

Single–photon–emission computed tomography (SPECT) in neurotologic assessment: a preliminary report. Sataloff RT, et al. **Am J Otol** 1996 Nov;17(6):909–16

REHABILITATION

A study on the effects of the verbo–tonal method in audition and language teaching to preschoolers with hearing impairment in Taiwan, ROC. Lin GB. **Adv Otorhinolaryngol** 1997;52:297–8
A history of seeing essential English (SEE I). Luetke–Stahlman B, et al. **Am Ann Deaf** 1996 Mar; 141(1):29–33
Preschool deaf and hard of hearing students' interactions during ASL and English storytelling. Schick B, et al. **Am Ann Deaf** 1995 Oct;140(4):363–70
A two–year follow–up examination of a behavioural treatment approach to hearing tactics. Andersson G, et al. **Br J Audiol** 1995 Dec;29(6):347–54
An evaluation of a group follow–up scheme for new NHS hearing aid users. Brickley GJ, et al. **Br J Audiol** 1996 Oct;30(5):307–12
The time course of adaptation to hearing aid use. Brooks DN. **Br J Audiol** 1996 Feb;30(1):55–62
Development of the Hearing Attitudes in Rehabilitation Questionnaire (HARQ). Hallam RS, et al. **Br J Audiol** 1996 Jun;30(3):199–213
Reported benefits and problems experienced with bone–anchored hearing aids. Stephens D, et al. **Br J Audiol** 1996 Jun;30(3):215–20
The value of routine in–the–ear measurement of hearing aid gain. Swan IR, et al. **Br J Audiol** 1995 Oct;29(5):271–7
Attitude and help–seeking for hearing impairment. van den Brink RH, et al. **Br J Audiol** 1996 Oct;30(5):313–24
Hearing aids and glue ear. Flanagan PM, et al. **Clin Otolaryngol** 1996 Aug;21(4):297–300
Hearing impairment, disability and handicap in elderly people living in residential care and in the community. Stumer J, et al. **Disabil Rehabil** 1996 Feb;18(2):76–82
The bone–anchored hearing aid: reference quantities and functional gain. Carlsson PU, et al. **Ear Hear** 1997 Feb; 18(1):34–41
Changes in speech intelligibility as a function of time and signal processing strategy for an Ineraid patient fitted with continuous interleaved sampling (CIS) processors. Dorman MF, et al. **Ear Hear** 1997 Apr;18(2):147–55
Age of suspicion, identification, and intervention for infants and young children with hearing loss: a national study. Harrison M, et al. **Ear Hear** 1996 Feb;17(1):55–62
Comparison of conventional amplification and an assistive listening device in elderly persons. Jerger J, et al. **Ear Hear** 1996 Dec;17(6):490–504
Candidates for multiple frequency response characteristics. Keidser G, et al. **Ear Hear** 1995 Dec;16(6):562–74
Comparison of two hearing aid receiver–amplifier combinations using sound quality judgments. Palmer CV, et al. **Ear Hear** 1995 Dec;16(6):587–98
Some considerations in evaluating spoken word recognition by normal–hearing, noise–masked normal–hearing, and cochlear implant listeners. I: The effects of response format. Sommers MS, et al. **Ear Hear** 1997 Apr;18(2):89–99
Measures of hearing aid gain for real speech. Stelmachowicz PG, et al. **Ear Hear** 1996 Dec;17(6):520–7
Design of two syllabic nonlinear multichannel signal processors and the results of speech tests in noise. van Harten–de Bruijn HE, et al. **Ear Hear** 1997 Feb;18(1):26–33
Television captions for hearing–impaired people: a study of key factors that affect reading performance. Thorn F, et al. **Hum Factors** 1996 Sep;38(3):452–63
Unsuccessful use of binaural amplification by an elderly person. Chmiel R, et al. **J Am Acad Audiol** 1997 Feb; 8(1):1–10
Client Oriented Scale of Improvement (COSI) and its relationship to several other measures of benefit and satisfaction provided by hearing aids. Dillon H, et al. **J Am Acad Audiol** 1997 Feb;8(1):27–43
Mismatch between aspects of hearing impairment and hearing disability/handicap in adult/elderly Cantonese speakers: some hypotheses concerning cultural and linguistic influences. Doyle J, et al. **J Am Acad Audiol** 1996 Dec; 7(6):442–6
Audiologic rehabilitation [editorial] Jerger J. **J Am Acad Audiol** 1996 Aug;7(4):218
Evaluation of hearing aid benefit using the Shortened Hearing Aid Performance Inventory. Jerram JC, et al. **J Am Acad Audiol** 1997 Feb;8(1):18–26
Assistive devices for the elderly. Kaplan H. **J Am Acad Audiol** 1996 Jun;7(3):203–11
Differences and intersubject variability of loudness discomfort levels measured in sound pressure level and hearing level for TDH–50P and ER–3A earphones. Valente M, et al. **J Am Acad Audiol** 1997 Feb;8(1):59–67
Bilingual hearing acquisition in Welsh and English following cochlear implantation. Osborne J, et al. **J Laryngol Otol** 1996 Aug;110(8):776–8

The Birmingham bone anchored hearing aid programme: referrals, selection, rehabilitation, philosophy and adult results. Cooper HR, et al. **J Laryngol Otol Suppl** 1996; 21:13–20

Quality ratings for frequency-shaped peak-clipped speech: results for listeners with hearing loss. Kozma-Spytek L, et al. **J Speech Hear Res** 1996 Dec;39(6):1115–23

Treatment efficacy: hearing aids in the management of hearing loss in adults. Weinstein BE. **J Speech Hear Res** 1996 Oct;39(5):S37–45

Hearing aid use and benefit and uptake of aural rehabilitation services by New Zealand hearing aid wearers. Jerram JC, et al. **N Z Med J** 1996 Nov 22;109(1034):450–1

Sound quality evaluation of anti-saturation circuitry in a hearing aid. Agnew J. **Scand Audiol** 1997;26(1):15–22

Hearing-aid pre-selection through a neural network. Arntsen O, et al. **Scand Audiol** 1996;25(4):259–62

The Valby Project: a survey of hearing in the elderly > or = 80 years of age not provided with hearing aids. Biering-Sørensen M, et al. **Scand Audiol** 1997;26(1):33–41

The long-term effect of early telephone intervention on hearing aid success. Cherry R, et al. **Scand Audiol** 1995; 24(4):243–6

Loudness discomfort levels and saturation levels in hearing aids prescribed for young persons. Israelsson B, et al. **Scand Audiol** 1995;24(4):257–64

Hearing disability assessment in evaluating hearing aid benefit. Marttila TI, et al. **Scand Audiol** 1996;25(2):121–5

Hearing rehabilitation in a psychosocial framework. Stephens D. **Scand Audiol Suppl** 1996;43:57–66

[Procedure of fitting in early rehabilitation] Renglet T. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(4):293–302 (Eng. Abstr.) **(Fre)**

[Report from the 3rd International Conference on the topic "Diagnosis, treatment and rehabilitation of hearing disorders", Sept. 11–14, 1995, Warszawa] Kosmalowa J, et al. **Otolaryngol Pol** 1996;50(4):460–4 **(Pol)**

[Report from the 2nd Polish-German Symposium on the topic "Treatment of hearing disorders", Warszawa, May 15–16, 1995] Skarzyński H. **Otolaryngol Pol** 1996; 50(4):457–9 **(Pol)**

SURGERY

Far field auditory brainstem response in neurotologic surgery [letter; comment] Fitzgerald DC. **Am J Otol** 1997 Jan; 18(1):126. Comment on: Am J Otol 1996 Jan;17(1):150–3.

Cochlear implants in adults and children: summary of the NIH consensus. Office of Medical Applications of Research, National Institutes of Health. **Aust N Z J Surg** 1997 Jun;67(6):379–80; discussion 381 (0 ref.)

The Birmingham bone anchored hearing aid programme: referrals, selection, rehabilitation, philosophy and adult results. Cooper HR, et al. **J Laryngol Otol Suppl** 1996; 21:13–20

The Birmingham bone anchored hearing aid programme: paediatric experience and results. Powell RH, et al. **J Laryngol Otol Suppl** 1996;21:21–9

The Birmingham bone anchored hearing aid programme: surgical methods and complications. Proops DW. **J Laryngol Otol Suppl** 1996;21:7–12

Cochlear implants in children. Langman AW, et al. **Pediatr Clin North Am** 1996 Dec;43(6):1217–31 (39 ref.)

[Challenges and therapeutic results of ear surgery] Pedersen CB. **Ugeskr Laeger** 1997 Aug 11;159(33):4968–73 **(Dan)**

[The study of the modification of the natural resonance of the external ear following tympanoplasty] Balestri JA, et al. **Acta Otorhinolaryngol Ital** 1995 Aug;15(4):279–88 (Eng. Abstr.) **(Ita)**

THERAPY

Speech must always be taught. Yenuthog O. **Adv Otorhinolaryngol** 1997;51:8–11

Reversal of visual loss with hyperbaric oxygen treatment in a patient with Susac syndrome. Li HK, et al. **Ophthalmology** 1996 Dec;103(12):2091–8

[Guidelines for diagnosis and treatment of hard-of-hearing subjects with a mental handicap. Dutch Society of Physicians in care for the Mentally Disabled. Society for Promotion of Expertise in the Care of Subjects with Mental Handicap. Central Support Agency for Inter-collegiate Testing (NVAZ; NGBZ; CBO)] Evenhuis HM. **Ned Tijdschr Geneeskd** 1996 Sep 14;140(37):1851–4 **(Dut)**

[Criteria for choosing a hearing aid] Mudry A. **Rev Med Suisse Romande** 1997 Jun;117(6):509–12 (16 ref.) **(Fre)**

VETERINARY

Threshold changes in auditory brainstem response (ABR) due to the administration of kanamycin in dogs. Uzuka Y, et al. **Exp Anim** 1996 Oct;45(4):325–31

Investigation of hearing impairment in Cavalier King Charles spaniels using auditory brainstem response audiometry [published erratum appears in J Small Anim Pract 1997 Feb;38(2):56] Munro KJ, et al. **J Small Anim Pract** 1997 Jan;38(1):2–5

HEARING LOSS, BILATERAL

CHEMICALLY INDUCED

Cisplatin administration to gynecologic cancer patients. Long-term effects on hearing. Laurell G, et al. **Cancer** 1996 Oct 15;78(8):1798–804

Azithromycin-related ototoxicity in patients infected with human immunodeficiency virus. Tseng AL, et al. **Clin Infect Dis** 1997 Jan;24(1):76–7

[Erythromycin-induced hearing loss in a patient with Listeria monocytogenes meningo-ventriculitis] Moriyasu H, et al. **Rinsho Shinkeigaku** 1996 Sep;36(9):1107–9 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Major depressive disorder, depressive symptoms, and bilateral hearing loss in hispanic adults. Lee DJ, et al. **J Affect Disord** 1997 Jul;44(2–3):189–95

Cochlear implantation in a pacemaker patient. Triglia JM, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1184–6

[Association of Cogan's syndrome and rheumatoid arthritis (letter)] Ben Taarit C, et al. **Rev Med Interne** 1996; 17(10):860–1 **(Fre)**

DIAGNOSIS

Outcomes of neonatal screening for hearing loss by otoacoustic emission. Watkin PM. **Arch Dis Child Fetal Neonatal Ed** 1996 Nov;75(3):F158–68

Early intervention for hearing impairment: differences in the timing of communicative and linguistic development. Robinshaw HM. **Br J Audiol** 1995 Dec;29(6):315–34

Evaluation of an automated auditory brainstem response infant hearing screening method in at risk neonates. van Straaten HL, et al. **Eur J Pediatr** 1996 Aug;155(8):702–5

Problems in assessing the audiogram in patients with severe hearing impairment. Giles M, et al. **J Laryngol Otol** 1996 Aug;110(8):727–31

[Cogan's syndrome] Leache Pueyo J, et al. **An Otorrinolaringol Ibero Am** 1996;23(4):359–65 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Efficacy of methotrexate in Cogan's syndrome [letter] Riente L, et al. **J Rheumatol** 1996 Oct;23(10):1830–1

ETIOLOGY

Hearing loss and herpes simplex. al Muhaimeed H, et al. **J Trop Pediatr** 1997 Feb;43(1):20–4

Deafness in chronic myeloid leukemia [letter] Chim CS, et al. **Leuk Lymphoma** 1997 Jun;26(1–2):209–10

[Case of bilateral hearing loss with basilar artery thrombosis] Kurono A, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):122–3 **(Jpn)**

[A case of mitochondrial encephalomyopathy showing ophthalmoplegia, diabetes mellitus and hearing loss associated with the A3243G mutation of mitochondrial DNA] Hoshino S, et al. **Rinsho Shinkeigaku** 1997 Apr; 37(4):326–30 (Eng. Abstr.) **(Jpn)**

[Bilateral injury of the middle ear structures in paracentesis in a newborn followed by recovery of the auditory ossicle chain] Pluzhnikov MS, et al. **Vestn Otorinolaringol** 1997; (1):53 **(Rus)**

[Bilateral mixed hearing loss in Mediterranean boutonneuse fever, reversible without antibiotic treatment (letter)] De Celis G, et al. **An Med Interna** 1996 Feb;13(2):98–9 **(Spa)**

[Hearing loss after spinal anesthesia (letter; comment)] de la Linde-Valverde CM. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):42. Comment on: Rev Esp Anestesiol Reanim 1996 Jun-Jul;43(6):229–30. **(Spa)**

[Transient bilateral hearing loss after spinal anesthesia (letter) (see comments)] Sánchez-Conde P, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):229–30. Comment in: Rev Esp Anestesiol Reanim 1997 Jan;44(1):42. **(Spa)**

GENETICS

A gene for autosomal dominant nonsyndromic hearing loss (DFNA12) maps to chromosome 11q22–24. Verhoeven K, et al. **Am J Hum Genet** 1997 May;60(5):1168–73

Isolation of a deafness gene [editorial] Dixon MJ. **Br J Hosp Med** 1996 Jun 5–18;55(11):672–3

A novel mutation in the potassium channel gene KVLQT1 causes the Jervell and Lange-Nielsen cardioauditory syndrome [see comments] Neyroud N, et al. **Nat Genet** 1997 Feb;15(2):186–9. Comment in: Nat Genet 1997 Feb;15(2):113–5.

IMMUNOLOGY

Recurrent hearing impairment and nystagmus induced by repeated antigen exposure in actively sensitized guinea pigs. Minoda R, et al. **Int Arch Allergy Immunol** 1996 Oct; 111(2):166–72

MICROBIOLOGY

Reversible sensorineural hearing loss in Lyme disease. Quinn SJ, et al. **J Laryngol Otol** 1997 Jun;111(6):562–4

PHYSIOPATHOLOGY

Audiological correlates of speech understanding deficits in elderly listeners with mild-to-moderate hearing loss. III. Factor representation. Divenyi PL, et al. **Ear Hear** 1997 Jun;18(3):189–201

Speaking clearly for the hearing impaired: intelligibility differences between clear and less clear speakers. Howell P, et al. **Eur J Disord Commun** 1997;32(1):89–97

PREVENTION & CONTROL

Prevention of hearing loss from meningitis. Kaplan SL. **Lancet** 1997 Jul 19;350(9072):158–9

PSYCHOLOGY

Visual and auditory hallucinations in a psychologically normal woman [letter] Chédru F, et al. **Lancet** 1996 Sep 28;348(9031):896

REHABILITATION

Early intervention for hearing impairment: differences in the timing of communicative and linguistic development. Robinshaw HM. **Br J Audiol** 1995 Dec;29(6):315–34

Acoustic and articulatory measures of sibilant production with and without auditory feedback from a cochlear implant. Matthies ML, et al. **J Speech Hear Res** 1996 Oct; 39(5):936–46

Speech concerns of hard-of-hearing adults. Gilbertson M, et al. **Percept Mot Skills** 1996 Oct;83(2):377–8

SURGERY

Replacement of a single-channel with a multichannel cochlear implant as an upgrade. Gyo K, et al. **Ear Nose Throat J** 1997 Jan;76(1):26–30

THERAPY

[Chronic tinnitus and hearing loss caused by cerebrospinal fluid leak treated with success with peridural blood patch. Apropos of 2 cases] Viale M, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(3):175–7 (Eng. Abstr.) **(Fre)**

HEARING LOSS, CENTRAL

CHEMICALLY INDUCED

A characteristic of aspirin-induced hearing loss in auditory brainstem response of conscious rats. Kurata K, et al. **J Vet Med Sci** 1997 Jan;59(1):9–15

DIAGNOSIS

Early and late postoperative hearing preservation in patients with acoustic neuromas. Umezu H, et al. **Neurosurgery** 1996 Aug;39(2):267–71; discussion 271–2

[Amplitude modulation following response (AMFR)—a method for objective frequency specific audiologic diagnosis] Pethe J, et al. **Laryngorhinootologie** 1996 Jan; 75(1):23–8 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Role of acute cochlear neuritis in sudden hearing loss in multiple sclerosis. Yamasoba T, et al. **J Neurol Sci** 1997 Mar 10;146(2):179–81

Some uncharacteristic clinical signs and symptoms of acoustic neuroma. Berrettini S, et al. **J Otolaryngol** 1997 Apr;26(2):97–103

Management of 1000 vestibular schwannomas (acoustic neuromas): hearing function in 1000 tumor resections. Samii M, et al. **Neurosurgery** 1997 Feb;40(2):248–60; discussion 260–2 (99 ref.)

[Crossed aphasia disclosed by central auditory disorder] Nedelec-Ciceri C, et al. **Rev Neurol (Paris)** 1996 Nov; 152(11):700–3 (Eng. Abstr.) **(Fre)**

PATHOLOGY

Acoustic neuroma: correlations between morphology and otoneurological manifestations. Berrettini S, et al. **J Neurol Sci** 1996 Dec;144(1–2):24–33

HEARING LOSS, CONDUCTIVE

Microphthalmia, marked short stature, hearing loss, and developmental delay: extension of the phenotype of GOMBO syndrome? Farrell SA. **Am J Med Genet** 1997 Oct 3;72(1):18–23

A new multiple malformation syndrome of Müllerian dysgenesis and conductive hearing loss with facial hypoplasia, bilateral forearm deformity, brachydactyly, spinal stenosis and scoliosis. Kumar D, et al. **Clin Genet** 1997 Jul;52(1):30–6

Congenital heart defect and conductive hypoacusia in a patient with the KBG syndrome [letter] Rivera-Vega MR, et al. **Clin Genet** 1996 Oct;50(4):278–9

Hearing loss in the Saethre-Chotzen syndrome. Ensink RJ, et al. **J Laryngol Otol** 1996 Oct;110(10):952–7

COMPLICATIONS

Stapedectomy in the elderly. Lippy WH, et al. **Am J Otol** 1996 Nov;17(6):831–4

Mass in the post nasal space and acquired immune deficiency syndrome. Drake-Lee A, et al. **J Laryngol Otol** 1996 Aug; 110(8):787–8

Pierre Robin syndrome: characteristics of hearing loss, effect of age on hearing level and possibilities in therapy planning. Handžić-Cuk J, et al. **J Laryngol Otol** 1996 Sep; 110(9):830–5

Unilateral auditory hallucinations in a boy with ipsilateral conductive hearing loss [letter] Brasic JR, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):302

[Hearing impairment in children with Down's syndrome] Szyfter W, et al. **Otolaryngol Pol** 1995;49(5):436–44 (Eng. Abstr.) **(Pol)**

CONGENITAL

Congenital conductive hearing loss in the lacrimoauriculodentodigital syndrome. Ensink RJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):97–9

Allograft stapes surgery for conductive hearing loss in patients with ossicular chain anomalies. Minatogawa T, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):283–6

Pediatric otology. Syms CA 3rd, et al. **Otolaryngol Clin North Am** 1996 Jun;29(3):407–20 (43 ref.)

[Middle ear abnormalities in Klippel-Feil syndrome] Oeken J, et al. **HNO** 1996 Sep;44(9):521–5 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Hearing, language, speech, vestibular, and dentofacial disorders in fetal alcohol syndrome. Church MW, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):227–37

Ehlers-Danlos syndrome: aural manifestations and treatment. Thomas DM, et al. **Am J Otolaryngol** 1996 Nov–Dec; 17(6):432–3 (10 ref.)

Identification of hearing loss using TEOAE descriptors: theoretical foundations and preliminary results. Hatzopoulos S, et al. **Audiology** 1995 Sep–Oct;34(5):248–59

The relationships between self-reported hearing disability and measures of auditory disability. Kramer SE, et al. **Audiology** 1996 Sep–Oct;35(5):277–87

Auditory threshold shift following meatal pressure change in ossicular disorders. Funai H, et al. **Auris Nasus Larynx** 1996;23:33–42

C1-tuning fork tests in school-aged children. Haapaniemi JJ, et al. **Auris Nasus Larynx** 1996;23:26–32

Concept of the notional person in the assessment of hearing disability. Robinson DW, et al. **Br J Audiol** 1996 Feb; 30(1):45–54

Effects of stapedial arch fractures on conductive hearing loss and stapedial reflexes. Simmons MJ, et al. **Ear Hear** 1996 Dec;17(6):559–63

Unilateral conductive hearing loss secondary to a high jugular bulb in a pediatric patient. Haupert MS, et al. **Ear Nose Throat J** 1997 Jul;76(7):468–9

Identification and diagnostic evaluation of hearing impairments in early childhood in German-speaking infants. Kiese-Himmel C, et al. **Eur Arch Otorhinolaryngol** 1997;254(3):133–9

[Otoacoustic emissions (TEOAE and DPOAE) after middle ear operation] Lieberum B, et al. **Laryngorhinootologie** 1996 Jan;75(1):18–22 (Eng. Abstr.) **(Ger)**

[Amplitude modulation following response (AMFR)—a method for objective frequency specific audiologic diagnosis] Pethe J, et al. **Laryngorhinootologie** 1996 Jan; 75(1):23–8 (Eng. Abstr.) **(Ger)**

[Early diagnosis of neurosensory component in various forms of conductive hearing loss] Magomedov MM, et al. **Vestn Otorinolaringol** 1997;(3):25–9 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Infant hearing screening with an automated auditory brainstem response screener and the auditory brainstem response. Chen SJ, et al. **Acta Paediatr** 1996 Jan;85(1):14–8

Hearing impairment and otitis media in a rural primary school in south India. Jacob A, et al. **Int J Pediatr Otorhinolaryngol** 1997 Mar 6;39(2):133–8

ETIOLOGY

Auditory consequences of early mild hearing loss associated with otitis media. Gravel JS, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):219–21

Effect of Pseudomonas aeruginosa exotoxin A on inner ear function. Stenqvist M, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):73–9

Hearing conservation in surgery for glomus jugulare tumors [published erratum appears in Am J Otol 1996 Nov;17(6):917] Jackson CG, et al. **Am J Otol** 1996 May; 17(3):425–37 (137 ref.)

Deafness and cholesteatoma complicating fracture of the mandibular condyle. Langton SG, et al. **Br J Oral Maxillofac Surg** 1996 Aug;34(4):286–8

'Otitis media with effusion' [letter; comment] Hall D. **Dev Med Child Neurol** 1997 Apr;39(4):280. Comment on: Dev Med Child Neurol 1997 Jan;39(1):31–9.

Unilateral conductive hearing loss secondary to a high jugular bulb in a pediatric patient. Haupert MS, et al. **Ear Nose Throat J** 1997 Jul;76(7):468–9

Hearing levels and age in cleft palate patients. Handžić-Cuk J, et al. **Int J Pediatr Otorhinolaryngol** 1996 Nov; 37(3):227–42

Hearing impairment and otitis media in a rural primary school in south India. Jacob A, et al. **Int J Pediatr Otorhinolaryngol** 1997 Mar 6;39(2):133–8

Tuberculous otitis media—a case report. Farrugia EJ, et al. **J Laryngol Otol** 1997 Jan;111(1):58–9

Conductive deafness in aglossia. Higashi K, et al. **J Laryngol Otol** 1996 Nov;110(11):1057–9

Audiological findings in glomus tumours. Qiu WW, et al. **J Laryngol Otol** 1997 Mar;111(3):218–22

High jugular bulb and conductive hearing loss. Weiss RL, et al. **Laryngoscope** 1997 Mar;107(3):321–7

Cholesterol granuloma of the petrous apex: establishment of a drainage route into the superior tympanic cavity—technical note. Kamiguchi H, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):662–5

Congenital absence of stapes and facial nerve dehiscence. Reiber ME, et al. **Otolaryngol Head Neck Surg** 1997 Feb; 116(2):278

Acoustic reflectometry: spectral analysis and the conductive hearing loss of otitis media. Combs JT, et al. **Pediatr Infect Dis J** 1996 Aug;15(8):683–6

[Secondary hearing impairment due to Paget's disease] Melgarejo Moreno PJ, et al. **An Otorrinolaringol Ibero Am** 1996;23(4):383–8 (Eng. Abstr.) **(Spa)**

GENETICS

Molecular analysis of the POU3F4 gene in patients with clinical and radiographic evidence of X-linked mixed deafness with perilymphatic gusher. Friedman RA, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):320–5

Isolation of a deafness gene [editorial] Dixon MJ. **Br J Hosp Med** 1996 Jun 5–18;55(11):672–3

De novo terminal deletion of chromosome 7 [46,XX,del(7)(q35)] Lo BH, et al. **J Paediatr Child Health** 1996 Aug;32(4):347–9

NURSING

Treatment of conductive hearing loss with ossicular chain reconstruction procedures. Waddington C, et al. **AORN J** 1997 Mar;65(3):511–5, 518, 521–2 passim

PATHOLOGY

Postnatal morphologic changes and glial fibrillary acidic protein immunoreactivity in the anteroventral cochlear nucleus of the acoustically-deprived gerbil. Yu SM, et al. **Histol Histopathol** 1997 Jul;12(3):701–18

[Arthrogenic ear canal tumor] Schunk M, et al. **HNO** 1996 Nov;44(11):640–3 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

The effect of rapid maxillary expansion on conductive hearing loss. Ceylan I, et al. **Angle Orthod** 1996;66(4):301–7

Effect of rapid maxillary expansion on hearing loss [letter] Timms DJ. **Angle Orthod** 1997;67(4):244–6

Early sound deprivation and long-term hearing. Welsh LW, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):877–81

Middle ear mechanics in subjects with rheumatoid arthritis. Colletti V, et al. **Audiology** 1997 May–Jun;36(3):136–46

Effects of stapedial arch fractures on conductive hearing loss and stapedial reflexes. Simmons MJ, et al. **Ear Hear** 1996 Dec;17(6):559–63

Behavioral and neurochemical alterations induced by reversible conductive hearing loss in aged male rats. Drago F, et al. **Neurosci Lett** 1996 Feb 16;205(1):1–4

PSYCHOLOGY

Ear disease and schizophrenia: confounding factors [letter; comment] Girard M. **Acta Psychiatr Scand** 1996 Mar; 93(3):219–20. Comment on: Acta Psychiatr Scand 1995 Apr;91(4):217–21.

REHABILITATION

Long-term results using ossicular grafts. Farrior JB, et al. **Am J Otol** 1996 May;17(3):386–92

Bioglass middle ear prosthesis: long-term results. Rust KR, et al. **Am J Otol** 1996 May;17(3):371–4

Use of an implantable hearing device. Yellin W, et al. **Am J Otolaryngol** 1997 Jan–Feb;18(1):33–7

Perceived sound quality of three bone-anchored hearing aid models. Ringdahl A, et al. **Br J Audiol** 1995 Dec; 29(6):309–14

The relationship between listening conditions and alternative amplification schemes for multiple memory hearing aids. Keidser G. **Ear Hear** 1995 Dec;16(6):575–86

The bone-anchored hearing aid (BAHA) in children with auricular malformations. Granström G, et al. **Ear Nose Throat J** 1997 Apr;76(4):238–40, 242, 244–7

Anatomical results with titanium implants in the mastoid region. Portmann D, et al. **Ear Nose Throat J** 1997 Apr; 76(4):231–4, 236

Speech and voice rehabilitation in selected patients fitted with a bone anchored hearing aid (BAHA). Thomas J. **J Laryngol Otol Suppl** 1996;21:47–51

[A registration system for evaluating acusto-mechanical transmission of middle ear implants] Meister H, et al. **HNO** 1997 Feb;45(2):81–5 (Eng. Abstr.) **(Ger)**

[Implantable bone conduction hearing aids] Matschke RG. **Wien Med Wochenschr** 1997;147(10):239–43 (17 ref.) (Eng. Abstr.) **(Ger)**

[Bone conduction hearing aids with fluid medium] Siegert R, et al. **Wien Med Wochenschr** 1997;147(10):244–8 (Eng. Abstr.) **(Ger)**

SURGERY

Predictive value of intraoperative brainstem auditory evoked responses in surgery for conductive hearing losses. Selesnick SH, et al. **Am J Otol** 1997 Jan;18(1):2–9

Treatment of conductive hearing loss with ossicular chain reconstruction procedures. Waddington C, et al. **AORN J** 1997 Mar;65(3):511–5, 518, 521–2 passim

Congenital conductive hearing loss in the lacrimoauriculodentodigital syndrome. Ensink RJ, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):97–9

Revision surgery in otosclerosis—an investigation of the factors which influence the hearing result. Pedersen CB. **Clin Otolaryngol** 1996 Oct;21(5):385–8

Speech and voice rehabilitation in selected patients fitted with a bone anchored hearing aid (BAHA). Thomas J. **J Laryngol Otol Suppl** 1996;21:47–51

Stapedectomy in patients with small air-bone gaps. Lippy WH, et al. **Laryngoscope** 1997 Jul;107(7):919–22

Surgical experience with bone-anchored hearing aids in children. Papsin BC, et al. **Laryngoscope** 1997 Jun; 107(6):801–6

Improved hearing results from stapedotomy with myringotomy. McQueen CT, et al. **N C Med J** 1996 May–Jun;57(3):176–8

Management of congenital atresia of the external auditory canal. Murphy TP, et al. **Otolaryngol Head Neck Surg** 1997 Jun;116(6 Pt 1):580–4

[Functional surgery of major aplasia of the ear. Current status] Manach Y. **Rev Laryngol Otol Rhinol (Bord)** 1997; 118(1):25–8 (Eng. Abstr.) **(Fre)**

[Acoustically optimized middle ear prostheses. New techniques for future research and development of improved implants (comment)] Hüttenbrink KB. **HNO** 1997 Jul;45(7):509–11. Comment on: HNO 1997 Jul;45(7):538–44. **(Ger)**

[Morphologic studies of autologous and homologous ossicles after long-term implantation] Frese KA, et al. **Laryngorhinootologie** 1996 Jun;75(6):330–4 (Eng. Abstr.) **(Ger)**

[Replacement of ear ossicles with titanium prostheses] Stupp CH, et al. **Laryngorhinootologie** 1996 Jun;75(6):335–7 (Eng. Abstr.) **(Ger)**

THERAPY

[Bone anchored auditory prosthesis. Indications, clinical and audiometric results] Belus JF, et al. **Ann Otolaryngol Chir Cervicofac** 1996;113(2):79–85 (Eng. Abstr.) **(Fre)**

HEARING LOSS, EXTREME see **DEAFNESS**

HEARING LOSS, FUNCTIONAL

DIAGNOSIS

Childhood pseudohypacusis. Pracy JP, et al. **Int J Pediatr Otorhinolaryngol** 1996 Oct;37(2):143–9

PSYCHOLOGY

Pseudohypacusis in children [editorial] Pracy JP, et al. **Clin Otolaryngol** 1996 Oct;21(5):383–4

HEARING LOSS, HIGH-FREQUENCY

Release from upward spread of masking in regions of high-frequency hearing loss. Nelson DA, et al. **J Acoust Soc Am** 1996 Oct;100(4 Pt 1):2266–77

CHEMICALLY INDUCED

Acute massive gentamicin intoxication in a patient with end-stage renal disease. Lu CM, et al. **Am J Kidney Dis** 1996 Nov;28(5):767–71

Ototoxicity of aminoglycoside drugs in tuberculosis treatment. Voogt GR, et al. **S Afr J Commun Disord** 1996; 43:3–6

DIAGNOSIS

Audiometric changes in patients undergoing coronary artery bypass surgery. Phillipps JJ, et al. **Br J Audiol** 1996 Feb; 30(1):19–25

A pilot investigation of high-frequency audiometry in obscure auditory dysfunction (OAD) patients. Shaw GM, et al. **Br J Audiol** 1996 Aug;30(4):233–7

ETIOLOGY

Extended high frequency hearing and history of acute otitis media in 14-year-old children in Finland. Laitila P, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:27–9

High frequency hearing loss associated with otitis media. Hunter LL, et al. **Ear Hear** 1996 Feb;17(1):1–11

The behavioral salience of tones as indicated by prepulse inhibition of the startle response: relationship to hearing loss and central neural plasticity in C57BL/6J mice. Carlson S, et al. **Hear Res** 1996 Sep 15;99(1–2):168–75

GENETICS

Identification of a new locus for autosomal dominant non-syndromic hearing impairment (DFNA7) in a large Norwegian family. Fagerheim T, et al. **Hum Mol Genet** 1996 Aug;5(8):1187–91

Quantitative measures of hair cell loss in CBA and C57BL/6 mice throughout their life spans. Spongr VP, et al. **J Acoust Soc Am** 1997 Jun;101(6):3546–53

PHYSIOPATHOLOGY

Abnormalities of ICP loudness adaptation at 1000 Hz associated with higher frequency (cochlear) loss. Janson JL, et al. **Br J Audiol** 1996 Feb;30(1):37–43

Electrophysiological indices of selective auditory attention in subjects with and without tinnitus. Jacobson GP, et al. **Hear Res** 1996 Aug;97(1–2):66–74

Click-evoked otoacoustic emissions and the influence of high-frequency hearing losses in humans. Avan P, et al. **J Acoust Soc Am** 1997 May;101(5 Pt 1):2771–7

REHABILITATION

Hearing aid use, central auditory disorder, and hearing handicap in elderly persons. Chmiel R, et al. **J Am Acad Audiol** 1996 Jun;7(3):190–202

Guidelines for fitting multiple memory hearing aids. Keidser G, et al. **J Am Acad Audiol** 1996 Dec;7(6):406–18

HEARING LOSS, NOISE-INDUCED

Compensation for hearing loss. Dobie RA. **Audiology** 1996 Jan–Feb;35(1):1–7 (20 ref.)

Appearance of free radicals in the guinea pig inner ear after noise-induced acoustic trauma. Yamane H, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):504–8

Noise and hearing loss in firefighting. Tubbs RL. **Occup Med** 1995 Oct–Dec;10(4):843–56 (38 ref.)

Impulse noise and acute acoustic trauma in Finnish conscripts. Number of shots fired and safe distances. Savolainen S, et al. **Scand Audiol** 1997;26(2):122–6

Hazards of noise exposure on fetal hearing. Pierson LL. **Semin Perinatol** 1996 Feb;20(1):21–9 (46 ref.)

CLASSIFICATION

Applicability of the L(eq) as a damage-risk criterion: an animal experiment. Lataye R, et al. **J Acoust Soc Am** 1996 Mar;99(3):1621–32

COMPLICATIONS

Detailed analysis of auditory brainstem responses in patients with noise-induced tinnitus. Attias J, et al. **Audiology** 1996 Sep–Oct;35(5):259–70

DIAGNOSIS

Investigation of the 4,000-Hertz dip by detailed audiometry. Murai K. **Ann Otol Rhinol Laryngol** 1997 May;106(5):408–13

Auditory effects of aircraft noise on people living near an airport. Chen TJ, et al. **Arch Environ Health** 1997 Jan–Feb;52(1):45–50

Intelligibility of Dutch CVC syllables and sentences for listeners with normal hearing and with three types of hearing impairment. Bosman AJ, et al. **Audiology** 1995 Sep–Oct;34(5):260–84

Improving audiometric thresholds by changing the headphone position at the ear. Flottorp G. **Audiology** 1995 Sep–Oct;34(5):221–31

Epidemiological evaluation of hearing damage related to strongly amplified music (personal cassette players, discotheques, rock concerts)—high-definition audiometric survey on 1364 subjects. Meyer-Bisch C. **Audiology** 1996 May–Jun;35(3):121–42

Concept of the notional person in the assessment of hearing disability. Robinson DW, et al. **Br J Audiol** 1996 Feb;30(1):45–54

Noise-induced otoacoustic emission loss with or without hearing loss. Attias J, et al. **Ear Hear** 1995 Dec;16(6):612–8

Acoustic trauma caused by lightning. Mora-Magaña I, et al. **Int J Pediatr Otorhinolaryngol** 1996 Mar;35(1):59–69

Occupational noise-induced hearing loss. Irwin J. **Occup Med (Oxf)** 1997 Jul;47(5):313–5

Dose-response relationship between smoking and impairment of hearing acuity in workers exposed to noise. Virokannas H, et al. **Scand Audiol** 1995;24(4):211–6

[Multifrequency impedance audiometry and study of occupational deafness: "Teflag", a new test] Camicas Vangout M, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996; 117(5):399–407 (Eng. Abstr.) **(Fre)**

[Comments on the revision of the Königstein instructional pamphlet (see comments)] Plath P. **HNO** 1996 Aug; 44(8):431–9 (11 ref.) (Eng. Abstr.). Comment in: HNO 1997 May;45(5):356–8; discussion 358–9. **(Ger)**

[Recording otoacoustic emissions in expert evaluation of chronic noise-induced hearing loss] Plinkert PK, et al. **HNO** 1996 Jun;44(6):313–8 (Eng. Abstr.) **(Ger)**

[Determination of hearing loss and disability assessment from pure tone audiometry and speech audiometry in occupational noise-induced hearing loss] Brusis T. **Laryngorhinootologie** 1996 Dec;75(12):732–8 (Eng. Abstr.) **(Ger)**

[Impulsive noise: PTS and anatomic correlations] Roberto M, et al. **Acta Otorhinolaryngol Ital** 1995 Apr;15(2):61–4 (Eng. Abstr.) **(Ita)**

[Course of the audiometric threshold in relation to the age in chronic acoustic trauma] Albera R. **Med Lav** 1997 Mar–Apr;88(2):121–30 (Eng. Abstr.) **(Ita)**

[Dip-shaped hearing loss of Békésy audiogram in high school students] Inoue Y, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Mar;99(3):432–44 (Eng. Abstr.) **(Jpn)**

[Otoacoustic emission measurements: clinical case reports. Part II] Kowalska S, et al. **Otolaryngol Pol** 1996;50(5):542–7 (Eng. Abstr.) **(Pol)**

[The role of evoked and distortion product otoacoustic emissions in the evaluation of industrial noise-induced hearing loss] Sliwińska-Kowalska M. **Otolaryngol Pol** 1996; 50(3):306–17 **(Pol)**

DRUG THERAPY

The effect of methylprednisolone on acoustic trauma. Takahashi K, et al. **Acta Otolaryngol (Stockh)** 1996 Mar; 116(2):209–12

Nimodipine at a dose that slows ABR latencies does not protect the ear against noise. Ison JR, et al. **Hear Res** 1997 Apr;106(1–2):179–83

EPIDEMIOLOGY

Identifying comparison groups for evaluating occupational hearing loss: a statistical assessment of 22 industrial populations. Adera T, et al. **Am J Ind Med** 1997 Feb; 31(2):243–9

Epidemiological evaluation of hearing damage related to strongly amplified music (personal cassette players, discotheques, rock concerts)—high-definition audiometric survey on 1364 subjects. Meyer-Bisch C. **Audiology** 1996 May–Jun;35(3):121–42

Women with noise-induced hearing-loss: an invisible group? Hallberg LR, et al. **Br J Audiol** 1996 Oct;30(5):340–5

Severe noise-induced deafness—a 10-year review of cases. Tay P. **Singapore Med J** 1996 Aug;37(4):362–4

ETIOLOGY

Risks of developing noise-induced hearing loss in employees of urban music clubs. Gunderson E, et al. **Am J Ind Med** 1997 Jan;31(1):75–9

The effects of moderate and low levels of acoustic overstimulation on stereocilia and their tip links in the guinea pig. Clark JA, et al. **Hear Res** 1996 Sep 15; 99(1–2):119–28

Physiology of the young adult Fischer 344 rat inferior colliculus: responses to contralateral monaural stimuli. Palombi PS, et al. **Hear Res** 1996 Oct;100(1–2):41–58

The influence of the cochlear efferent system on chronic acoustic trauma. Zheng XY, et al. **Hear Res** 1997 May; 107(1–2):147–59

Acoustic trauma caused by lightning. Mora-Magaña I, et al. **Int J Pediatr Otorhinolaryngol** 1996 Mar;35(1):59–69

Noise pollution [editorial] Sahoo GC. **J Indian Med Assoc** 1997 Jan;95(1):1–2

MRI acoustic noise: sound pressure and frequency analysis. Counter SA, et al. **J Magn Reson Imaging** 1997 May–Jun; 7(3):606–11

Referee's ear [letter] Nigro PJ, et al. **J Occup Environ Med** 1996 Apr;38(4):329

Operating sound monitoring instruments. Breeding DC. **Occup Health Saf** 1996 Mar;65(3):42–6

Noise: a hazard for the fetus and newborn. American Academy of Pediatrics. Committee on Environmental Health. **Pediatrics** 1997 Oct;100(4):724–7

Blast overpressure induced structural and functional changes in the auditory system. Patterson JH Jr, et al. **Toxicology** 1997 Jul 25;121(1):29–40

[School children and loud music. On the significance of technically enhanced music on the life style of students] Hanel J. **Schriftenr Ver Wasser Boden Lufthyg** 1996; 99:1–149 **(Ger)**

[Endangering of hearing due to loud music] Ising H. **Soz Praventivmed** 1996;41(5):327–8 **(Ger)**

[No evidence for hearing aid-induced progressive pediatric hearing loss in the Cologne region] Streppel M, et al. **Wien Med Wochenschr** 1997;147(10):234–8 (Eng. Abstr.) **(Ger)**

[Problems of hearing loss in aviation engineers (professional and ecological aspects)] Skrebnev SV, et al. **Vestn Otorinolaringol** 1997;(2):9–12 (Eng. Abstr.) **(Rus)**

GENETICS

Genetics of age-related hearing loss in mice. III. Susceptibility of inbred and F1 hybrid strains to noise-induced hearing loss. Erway LC, et al. **Hear Res** 1996 Apr;93(1–2):181–7

PATHOLOGY

The role of the cochlear efferent system in acquired resistance to noise-induced hearing loss. Zheng XY, et al. **Hear Res** 1997 Feb;104(1–2):191–203

Time course of nerve-fiber regeneration in the noise-damaged mammalian cochlea. Lawner BE, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):601–17

Distribution of nerve fibers in the basilar papilla of normal and sound-damaged chick cochleae. Ofsie MS, et al. **J Comp Neurol** 1996 Jul 1;370(3):281–94

PHYSIOPATHOLOGY

The influence of the efferent auditory system on otoacoustic emissions in noise induced tinnitus: clinical relevance. Attias J, et al. **Acta Otolaryngol (Stockh)** 1996 Jul; 116(4):534–9

Remote masking in noise-exposed chinchillas. Quaranta A, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):226–8

Protection against noise trauma by sound conditioning. Canlon B. **Ear Nose Throat J** 1997 Apr;76(4):248–50, 253–5 (23 ref.)

In situ real-time sequential potentiometric determinations of potassium concentrations from three cochlear regions in noise-exposed rats. Ma YL, et al. **Eur Arch Otorhinolaryngol** 1996;253(4–5):201–4

Middle-latency responses to assess objective thresholds in patients with noise-induced hearing losses and Ménière's disease. Xu ZM, et al. **Eur Arch Otorhinolaryngol** 1996; 253(4–5):222–6

Tuning, spontaneous activity and tonotopic map in chicken cochlear ganglion neurons following sound-induced hair cell loss and regeneration. Chen L, et al. **Hear Res** 1996 Sep 1;98(1–2):152–64

Central tinnitus and lateral inhibition: an auditory brainstem model. Gerken GM. **Hear Res** 1996 Aug;97(1–2):75–83 (57 ref.)

Discharge properties of pigeon single auditory nerve fibers after recovery from severe acoustic trauma. Müller M, et al. **Int J Dev Neurosci** 1997 Jul;15(4–5):401–16

Reduced frequency selectivity and the preservation of spectral contrast in noise. Leek MR, et al. **J Acoust Soc Am** 1996 Sep;100(3):1796–806

Effects of acoustic trauma on the representation of the vowel /epsilon/ in cat auditory nerve fibers. Miller RL, et al. **J Acoust Soc Am** 1997 Jun;101(6):3602–16

Plasticity of response properties of inferior colliculus neurons following acute cochlear damage. Wang J, et al. **J Neurophysiol** 1996 Jan;75(1):171–83

Derived-band auditory brain-stem response estimates of traveling wave velocity in humans: II. Subjects with noise-induced hearing loss and Ménière's disease. Donaldson GS, et al. **J Speech Hear Res** 1996 Jun; 39(3):534–45

[In situ sound pressure measurement in a professional violinist with bilateral tinnitus] Rosanowski F, et al. **Laryngorhinootologie** 1996 Sep;75(9):514–6 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

The "toughening" phenomenon in rat's auditory organ. Pukkila M, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:59–62

Protection against noise trauma by sound conditioning. Canlon B. **Ear Nose Throat J** 1997 Apr;76(4):248–50, 253–5 (23 ref.)

Noise level analysis of commercially available toys. Yaremchuk K, et al. **Int J Pediatr Otorhinolaryngol** 1997 Aug 20;41(2):187–97

Applicability of the L(eq) as a damage-risk criterion: an animal experiment. Lataye R, et al. **J Acoust Soc Am** 1996 Mar;99(3):1621–32

The 'ABCs' of noise measurements set the stage for responsive controls. Banach J. **Occup Health Saf** 1994 Oct; 63(10):75–8

Tactics against workplace hearing loss motivate employees to wear protection. DeJoy DM. **Occup Health Saf** 1994 Mar;63(3):50–4

The persuasive power of hearing loss demonstrations. Harris G. **Occup Health Saf** 1996 Mar;65(3):26–36

Noise? What noise? Smith G. **Occup Health Saf** 1996 Mar; 65(3):38

Diltiazem for prevention of acoustical trauma during otologic surgery. Maurer J, et al. **ORL J Otorhinolaryngol Relat Spec** 1995 Nov–Dec; 57(6):319–24

Test of the health promotion model as a causal model of construction workers' use of hearing protection. Lusk SL, et al. **Res Nurs Health** 1997 Jun;20(3):183–94

Control of industrial noise and hearing loss at work—are we making progress? [editorial] Delaney CM, et al. **S Afr Med J** 1996 Nov;86(11):1381–2

[Risk of hearing loss caused by high volume music—presenting an educational concept for preventing hearing loss in adolescents] Becher S, et al. **Gesundheitswesen** 1996 Feb;58(2):91–5 (Eng. Abstr.) **(Ger)**

[Muscular and bone disorders and hearing loss as diseases created by man: the primate of prevention (letter)] Mazzella di Bos M. **Med Lav** 1997 Jan–Feb;88(1):81–2 **(Ita)**

[The protective effect in man of cerebral cortical gangliosides on temporary hearing loss induced by high-intensity noise] Maniero G, et al. **Riv Med Aeronaut Spaz** 1975 Apr–Sep; 38(2–3):307–16 (Eng. Abstr.) **(Ita)**

PSYCHOLOGY

Occupational hearing loss: coping and family life. Hallberg LR. **Scand Audiol Suppl** 1996;43:25–33 (30 ref.)

HEARING LOSS, NOISE-INDUCED

REHABILITATION

[Patients with trauma-induced deafness--rehabilitation using a cochlear implant] Mack KF, et al.
Wien Med Wochenschr 1997;147(10):249-51 (Eng. Abstr.) **(Ger)**

THERAPY

Effect of hyperbaric oxygen treatment on permanent threshold shift in acoustic trauma among rats. Kuokkanen J, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:80-2

[Hearing function of workers of "noisy" occupations at the Podolsk machinery plant and effectiveness of therapeutic measures] Sineva EL, et al. **Med Tr Prom Ekol** 1997; (4):31-4 (Eng. Abstr.) **(Rus)**

HEARING LOSS, NONORGANIC see **HEARING LOSS, FUNCTIONAL**

HEARING LOSS, PARTIAL

Perceived hearing handicap of patients with unilateral or mild hearing loss. Newman CW, et al.
Ann Otol Rhinol Laryngol 1997 Mar;106(3):210-4

[Familial hearing loss] Asano Y, et al.
Ryoikibetsu Shokogun Shirizu 1996;(15):314-6 (13 ref.) **(Jpn)**

CHEMICALLY INDUCED

Effects of furosemide on intracochlear oxygen tension in the guinea pig. Liu JX, et al. **Eur Arch Otorhinolaryngol** 1996; 253(6):367-70

Reversible hearing impairment induced by lithium in the guinea pig. Horner KC, et al. **Neuroreport** 1997 Apr 14; 8(6):1341-5

Toluene-induced hearing loss: a mid-frequency location of the cochlear lesions. Campo P, et al.
Neurotoxicol Teratol 1997 Mar-Apr;19(2):129-40

Recording of brainstem evoked potentials and their association with gentamicin in neonates. Chayasirisobhon S, et al. **Pediatr Neurol** 1996 May;14(4):277-80

COMPLICATIONS

[The variation of the vestibular response vs. the variations of the auditory threshold after administration of glycerol in patients with Meniere's disease] Monini S, et al.
Acta Otorhinolaryngol Ital 1995 Aug;15(4):273-8 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

The value of behavioral methods of hearing examinations in comparison with ABR. Niedzielska G, et al.
Ann Univ Mariae Curie Sklodowska [Med] 1995;50:193-6

Application of regression analysis to examination of degree of loss of hearing. Zaborski L, et al.
Bull Inst Marit Trop Med Gdynia 1996;47(1-4):85-92

[Assessment of cochlear function with distortion products of otoacoustic emissions in acoustic neuroma] Oeken J.
HNO 1996 Dec;44(12):677-84 (Eng. Abstr.) **(Ger)**

[Recruitment detection--a comparison of category loudness scaling and classical supra-threshold audiometry] Kiessling J, et al. **Laryngorhinootologie** 1996 Jan;75(1):10-7 (Eng. Abstr.) **(Ger)**

[Audiometry in wide frequency range in early diagnosis of occupational partial hearing loss in locomotive drivers] Kholmatov DI. **Vestn Otorinolaringol** 1997;(1):24-6 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Prevalence figures for mild hearing impairments cannot be based on clinical data. Sorri M, et al.
Acta Otolaryngol (Stockh) 1997 Mar;117(2):179-81

An increasing prevalence of hearing impairment and associated risk factors over three decades of the Alameda County Study [see comments] Wallhagen MI, et al.
Am J Public Health 1997 Mar;87(3):440-2. Comment in: Am J Public Health 1997 Mar;87(3):333-4.

ETHNOLOGY

Sociodemographic correlates of hearing loss and hearing aid use in Hispanic adults. Lee DJ, et al. **Epidemiology** 1996 Jul;7(4):443-6

ETIOLOGY

An increasing prevalence of hearing impairment and associated risk factors over three decades of the Alameda County Study [see comments] Wallhagen MI, et al.
Am J Public Health 1997 Mar;87(3):440-2. Comment in: Am J Public Health 1997 Mar;87(3):333-4.

Middle ear pressure and dysfunction of the labyrinth: is there a relationship? Maier W, et al.
Ann Otol Rhinol Laryngol 1997 Jun;106(6):478-82

Audiologic and otologic characteristics of Pfeiffer syndrome. Vallino-Napoli LD. **Cleft Palate Craniofac J** 1996 Nov; 33(6):524-9

Unilateral conductive hearing loss secondary to a high jugular bulb in a pediatric patient. Haupert MS, et al.
Ear Nose Throat J 1997 Jul;76(7):468-9

Cholesterol granuloma of the petrous apex: establishment of a drainage route into the superior tympanic cavity--technical note. Kamiguchi H, et al.
Neurol Med Chir (Tokyo) 1996 Sep;36(9):662-5

Clinics in diagnostic imaging. Peh WC, et al.
Singapore Med J 1995 Aug;36(4):433-6

Assessment of cochlear damage after pneumococcal meningitis using otoacoustic emissions. Daya H, et al.
Trans R Soc Trop Med Hyg 1997 May-Jun;91(3):248-9

[Total unilateral deafness in children. Etiologies and long-term consequences] Noël-Petroff N, et al.
Ann Otolaryngol Chir Cervicofac 1997;114(1-2):13-22 (Eng. Abstr.) **(Fre)**

[Hearing loss during the course of mumps] Kępa L.
Przegl Epidemiol 1995;49(4):391-3 (Eng. Abstr.) **(Pol)**

GENETICS

Pallister-Killian syndrome: a mild case diagnosed by fluorescence in situ hybridization. Review of the literature and expansion of the phenotype. Bielanska MM, et al.
Am J Med Genet 1996 Oct 16;65(2):104-8

New gene for autosomal recessive non-syndromic hearing loss maps to either chromosome 3q or 19p. Chen A, et al. **Am J Med Genet** 1997 Sep 5;71(4):467-71

Proximal myotonic dystrophy--a family with autosomal dominant muscular dystrophy, cataracts, hearing loss and hypogonadism: heterogeneity of proximal myotonic syndromes? Udd B, et al. **Neuromuscul Disord** 1997 Jun; 7(4):217-28

Hypoparathyroidism and deafness associated with pleioplasmic large scale rearrangements of the mitochondrial DNA: a clinical and molecular genetic study of four children with Kearns-Sayre syndrome. Wilichowski E, et al. **Pediatr Res** 1997 Feb;41(2):193-200 (47 ref.)

NURSING

Listening in the care environment--chaos or clarity for the hearing-impaired elderly person. Tolson D, et al.
Int J Nurs Stud 1997 Jun;34(3):173-82

PHYSIOPATHOLOGY

Different aspects of hearing preservation in surgery of vestibular schwannoma in women and men. Schaller B, et al. **Acta Neurochir (Wien)** 1996;138(11):1275-81

NOD mice as a model for inherited deafness [letter] Atkinson M, et al. **Diabetologia** 1997 Jul;40(7):868

Response properties of neurons in the inferior colliculus of the monaurally deafened ferret to acoustic stimulation of the intact ear. McAlpine D, et al. **J Neurophysiol** 1997 Aug; 78(2):767-79

[The solitary ear] Garzón Calles JA.
An Otorrinolaringol Ibero Am 1996;23(4):367-74 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

A comprehensive strategy for the assessment of noise exposure and risk of hearing impairment. Malchaire J, et al. **Ann Occup Hyg** 1997 Aug;41(4):467-84 (0 ref.)

The whispered voice: the best test for screening for hearing impairment in general practice? Eekhof JA, et al.
Br J Gen Pract 1996 Aug;46(409):473-4

WHO and its role in the prevention of deafness and hearing impairment [editorial] Hinchcliffe R. **J Laryngol Otol** 1997 Aug;111(8):699-701 (14 ref.)

N-methyl-D-aspartate antagonists limit aminoglycoside antibiotic-induced hearing loss [see comments] Basile AS, et al. **Nat Med** 1996 Dec;2(12):1338-43. Comment in: Nat Med 1996 Dec;2(12):1313-4.

Aminoglycoside excitement silences hearing [news; comment] Ernfors P, et al. **Nat Med** 1996 Dec;2(12):1313-4 . Comment on: Nat Med 1996 Dec;2(12):1338-43.

Hearing protection works! Rink TL. **Occup Health Saf** 1996 Oct;65(10):58-64

REHABILITATION

Listening in the care environment--chaos or clarity for the hearing-impaired elderly person. Tolson D, et al.
Int J Nurs Stud 1997 Jun;34(3):173-82

[A study on the effect of slower speech rate produced by the speech rate converter] Watanabe K.
Nippon Jibiinkoka Gakkai Kaiho 1996 Mar;99(3):445-53 (Eng. Abstr.) **(Jpn)**

SURGERY

State of the art on the development of the implantable hearing device for partial hearing loss. Maniglia AJ.
Otolaryngol Clin North Am 1996 Apr;29(2):225-43 (41 ref.)

HEARING LOSS, SENSORINEURAL

Issues in comparing the speechreading abilities of hearing-impaired and hearing 15 to 16 year-old pupils. Elphick R. **Br J Educ Psychol** 1996 Sep;66 (Pt 3):357-65

Keipert syndrome in two brothers from Turkey. Balci S, et al. **Clin Genet** 1996 Oct;50(4):223-8

Effects of acclimatization and deprivation on non-speech auditory abilities. Byrne D, et al. **Ear Hear** 1996 Jun;17(3 Suppl):29S-37S

Late-onset auditory deprivation: a review of past research and an assessment of future research needs. Neuman AC.
Ear Hear 1996 Jun;17(3 Suppl):3S-13S

The effect of hearing impairment on the vocal characteristics of older people. Weatherley CC, et al.
Folia Phoniatr Logop 1997;49(2):53-62

Effect of relative amplitude, presentation level, and vowel duration on perception of voiceless stop consonants by normal and hearing-impaired listeners. Hedrick MS, et al.
J Acoust Soc Am 1996 Nov;100(5):3398-407

Directivity of binaural noise reduction in spatial multiple noise-source arrangements for normal and impaired listeners. Peissig J, et al. **J Acoust Soc Am** 1997 Mar; 101(3):1660-70

Intraspeech spread of masking in normal-hearing and hearing-impaired listeners. Summers V, et al.
J Acoust Soc Am 1997 May;101(5 Pt 1):2866-76

Dutch consensus on diagnosis and treatment of hearing impairment in children and adults with intellectual disability. The Consensus Committee. Evenhuis HM.
J Intellect Disabil Res 1996 Oct;40 (Pt 5):451-6

Safety of topical ear drops containing ototoxic antibiotics. Rakover Y, et al. **J Otolaryngol** 1997 Jun;26(3):194-6

Speaking clearly for the hard of hearing IV: Further studies of the role of speaking rate. Uchanski RM, et al.
J Speech Hear Res 1996 Jun;39(3):494-509

Sensorineural hearing loss in children. Brookhouser PE.
Pediatr Clin North Am 1996 Dec;43(6):1195-216 (79 ref.)

[Acute sensorineural hearing loss (data of the otorhinolaryngologic clinic of the I.M. Sechenov Moscow Medical Academy)] Ovchinnikov IuM, et al.
Vestn Otorinolaringol 1996 May-Jun;(3):12-8 (Eng. Abstr.) **(Rus)**

CHEMICALLY INDUCED

Radiotherapy enhanced ototoxicity of cisplatin in children. Miettinen S, et al. **Acta Otolaryngol Suppl (Stockh)** 1997; 529:90-4

Audiologic features of hearing loss due to the 1,555 mutation of mitochondrial DNA. Tsuiki T, et al.
Ann Otol Rhinol Laryngol 1997 Aug;106(8):643-8

A prospective cohort study of the effect of vincristine on audition. Lugassy G, et al. **Anticancer Drugs** 1996 Jul; 7(5):525-6

Ototoxic reactions of quinine in healthy persons and patients with Plasmodium falciparum infection. Tange RA, et al.
Auris Nasus Larynx 1997 Apr;24(2):131-6

Ketorolac induced acute reversible hearing loss in a patient maintained on CAPD [letter] Otti T, et al.
Clin Nephrol 1997 Mar;47(3):208-9

High lead exposure and auditory sensory-neural function in Andean children. Counter SA, et al.
Environ Health Perspect 1997 May;105(5):522-6

Sensorineural hearing loss in children with thalassemia major in Northern Greece. Kontzoglou G, et al.
Int J Pediatr Otorhinolaryngol 1996 May;35(3):223-30

Sudden sensorineural deafness and hormone replacement therapy. Strachan D. **J Laryngol Otol** 1996 Dec; 110(12):1148-50

Occupational lead exposure and hearing loss. Forst LS, et al. **J Occup Environ Med** 1997 Jul;39(7):658-60

Profound hearing loss from intravertebral artery cisplatin. Wetmore SJ, et al. **Otolaryngol Head Neck Surg** 1997 Feb; 116(2):234-7

[Fluctuant perception hearing loss after hepatitis B vaccine] Bonfils P, et al. **Ann Otolaryngol Chir Cervicofac** 1996; 113(6):359-61 (Eng. Abstr.) **(Fre)**

[Sudden deafness induced by interferon-alpha in viral hepatitis C (letter)] Bailly F, et al.
Gastroenterol Clin Biol 1997;21(2):157-8 **(Fre)**

[Toxic inner ear damage in topical treatment of psoriasis with salicylates] Maune S, et al. **Laryngorhinootologie** 1997 Jun; 76(6):368-70 (Eng. Abstr.) **(Ger)**

CLASSIFICATION

[Audiologic classification of hearing retention after removal of acoustic neurinomas] Gjuric M, et al. **HNO** 1997 May; 45(5):350-2 **(Ger)**

COMPLICATIONS

Central areolar choroidal dystrophy and slowly progressive sensorineural hearing loss. Hoyng CB, et al.
Acta Ophthalmol Scand 1996 Dec;74(6):639-41

Idiopathic bilateral sensorineural hearing loss: its clinical study in cases with rapidly progressed deafness. Hirayama M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;524:39-42

Perilymphatic fistula in teens and young adults: emphasis on preexisting sensorineural hearing loss. Fitzgerald DC.
Am J Otol 1996 May;17(3):397-400

Lack of association between hearing loss and glaucoma. Shapiro A, et al. **Am J Otol** 1997 Mar;18(2):172-4

Hearing loss in the Sjögren syndrome. Tumiati B, et al.
Ann Intern Med 1997 Mar 15;126(6):450-3

Usher's syndrome type IC: clinical studies and fine-mapping the disease locus. Marietta J, et al.
Ann Otol Rhinol Laryngol 1997 Feb;106(2):123-8

Hearing loss in insulin-dependent diabetes mellitus. Celik O, et al. **Auris Nasus Larynx** 1996;23:127-32

Use of the distraction hearing test in children with congenital ocular motor apraxia. Rowe FJ, et al. **Br J Audiol** 1996 Oct;30(5):346-8

Renal artery stenosis complicating Cogan's syndrome [letter] Vella JP, et al. **Clin Nephrol** 1997 Jun;47(6):407-8

Auditory function in young patients with chronic renal failure. Nikolopoulos TP, et al. **Clin Otolaryngol** 1997 Jun;

22(3):222–5
Giant retinal tear and retinal detachment with underlying retinitis pigmentosa and hearing loss [see comments] Kim RY, et al. **Eye** 1996;10 (Pt 6):697–700. Comment in: Eye 1996 ;10 (Pt 6):651–2.
Knuckle pads, leukonychia and deafness. Köse O, et al. **Int J Dermatol** 1996 Oct;35(10):728–9
The ophthalmological course of Usher syndrome type III. Pakarinen L, et al. **Int Ophthalmol** 1995–96;19(5):307–11
Speech intelligibility prediction in hearing–impaired listeners based on a psychoacoustically motivated perception model. Holube I, et al. **J Acoust Soc Am** 1996 Sep;100(3):1703–16
Hearing loss in oto–spondylo–megaepiphyseal dysplasia (OSMED): case studies. Katbamna B, et al. **J Am Acad Audiol** 1996 Oct;7(5):365–9
Otolaryngological manifestation of Gorlin Goltz syndrome. al–Anazy FH, et al. **J Laryngol Otol** 1997 Mar;111(3):286–9 (10 ref.)
Sensorineural hearing loss in MELAS syndrome. Warrick PD, et al. **J Laryngol Otol** 1997 Mar;111(3):279–81
Sensorineural hearing loss in the mdx mouse: a model of Duchenne muscular dystrophy. Raynor EM, et al. **Laryngoscope** 1997 Aug;107(8):1053–6
Group B streptococcal sepsis and meningitis complicated with severe sensorineural hearing loss in a fourteen–year–old boy. Likitnukul S, et al. **Pediatr Infect Dis J** 1996 May;15(5):468–70 (15 ref.)
[Incidence of normal hearing in acoustic neuroma] De Donato G, et al. **Acta Otorhinolaryngol Ital** 1995 Apr; 15(2):73–9 (Eng. Abstr.) **(Ita)**
[Topographic diagnosis of hearing loss in patients with ischemic heart disease. Use of high–rate brain stem evoked response audiometry] Pérez Villa J, et al. **Acta Otorrinolaringol Esp** 1996 Nov–Dec;47(6):441–7 (Eng. Abstr.) **(Spa)**
[Secretory middle ear otitis with severe sensorineural deafness] Montalt J, et al. **An Otorrinolaringol Ibero Am** 1997;24(1):27–37 (Eng. Abstr.) **(Spa)**
[Equilibrium and auditory disorders in patients affected by HIV–1] Domènech J, et al. **Rev Neurol** 1996 Dec; 24(136):1623–6 (22 ref.) (Eng. Abstr.) **(Spa)**

CONGENITAL

Stable and progressive hearing loss in type 2A Usher's syndrome. van Aarem A, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):962–7
[The effect of perinatal factors on development of congenital sensorineural hearing loss in children] Kovshenkova ID. **Vestn Otorinolaringol** 1996 Sep–Oct;(5):33–4 (Eng. Abstr.) **(Rus)**

DIAGNOSIS

Distortion product otoacoustic emission test of sensorineural hearing loss: performance regarding sensitivity, specificity and receiver operating characteristics. Kim DO, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):3–11
Electrocochleographic findings: Menière's disease versus sudden sensorineural hearing loss. Filipo R, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;526:21–3
New speech–in–noise test in different types of hearing impairment. Holma T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:71–3
Diagnosis and treatment of idiopathic sudden sensorineural hearing loss (ISSHL). A survey in The Netherlands and Flanders. Stokroos RJ, et al. **Acta Otorhinolaryngol Belg** 1996;50(3):237–45
Electrocochleography. Kumagami H, et al. **Adv Otorhinolaryngol** 1997;53:1–20
Predicting neuroradiologic outcome in patients referred for audiovestibular dysfunction. Levy RA, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1717–24
Hearing, language, speech, vestibular, and dentofacial disorders in fetal alcohol syndrome. Church MW, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):227–37
Localizing retrocochlear hearing loss. Hirsch BE, et al. **Am J Otol** 1996 Jul;17(4):537–46
Otoacoustic emissions recorded at high rates in patients with confirmed acoustic neuromas. Norman M, et al. **Am J Otol** 1996 Sep;17(5):763–72
Audiological findings of sensorineural deafness associated with a mutation in the mitochondrial DNA. Sawada S, et al. **Am J Otol** 1997 May;18(3):332–5
Carriers of the Usher syndrome type IB: is audiometric identification possible? Wagenaar M, et al. **Am J Otol** 1996 Nov;17(6):853–8
Clinical observations on acute low–tone sensorineural hearing loss. Survey and analysis of 137 patients. Imamura S, et al. **Ann Otol Rhinol Laryngol** 1997 Sep;106(9):746–50
Investigation of the 4,000–Hertz dip by detailed audiometry. Murai K. **Ann Otol Rhinol Laryngol** 1997 May; 106(5):408–13
Distortion product otoacoustic emission test of sensorineural hearing loss in humans: comparison of unequal– and equal–level stimuli. Sun XM, et al. **Ann Otol Rhinol Laryngol** 1996 Dec;105(12):982–90
Audiologic findings in patients with a point mutation at nucleotide 3,243 of mitochondrial DNA. Tamagawa Y, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):338–42
Frequency–specific auditory brainstem responses in adults with sensorineural hearing loss. Beattie RC, et al. **Audiology** 1996 Jul–Aug;35(4):194–203
Audiovisual speech reception in noise and self–perceived hearing disability in sensorineural hearing loss. Corthals P, et al. **Audiology** 1997 Jan–Feb;36(1):46–56
Identification of hearing loss using TEOAE descriptors: theoretical foundations and preliminary results. Hatzopoulos S, et al. **Audiology** 1995 Sep–Oct;34(5):248–59
The relationships between self–reported hearing disability and measures of auditory disability. Kramer SE, et al. **Audiology** 1996 Sep–Oct;35(5):277–87
The effects of cochlear hearing loss, age and sex on the auditory brainstem response. Watson DR. **Audiology** 1996 Sep–Oct;35(5):246–58
C1–tuning fork tests in school–aged children. Haapaniemi JJ, et al. **Auris Nasus Larynx** 1996;23:26–32
Clinical application of transiently evoked otoacoustic emissions after glycerol administration for diagnosis of sensorineural hearing loss. Inoue Y, et al. **Auris Nasus Larynx** 1997 Apr;24(2):143–9
Early intervention for hearing impairment: differences in the timing of communicative and linguistic development. Robinshaw HM. **Br J Audiol** 1995 Dec;29(6):315–34
Use of the distraction hearing test in children with congenital ocular motor apraxia. Rowe FJ, et al. **Br J Audiol** 1996 Oct;30(5):346–8
Audit of the distraction test of hearing at about 8 months of age: results of a survey of Scottish health boards. Wallace AM, et al. **Br J Audiol** 1996 Dec;30(6):389–95
Sensorineural hearing loss and cerebellopontine angle lesions. Not always an acoustic neuroma—a pictorial essay. Heier LA, et al. **Clin Imaging** 1997 May–Jun;21(3):213–23 (7 ref.)
Audiological correlates of speech understanding deficits in elderly listeners with mild–to–moderate hearing loss. I. Age and lateral asymmetry effects. Divenyi PL, et al. **Ear Hear** 1997 Feb;18(1):42–61
A digital filterbank hearing aid: predicting user preference and performance for two signal processing algorithms. Lunner T, et al. **Ear Hear** 1997 Feb;18(1):12–25
Longitudinal study of FM system use in nonacademic settings: effects on language development. Moeller MP, et al. **Ear Hear** 1996 Feb;17(1):28–41
Identification and diagnostic evaluation of hearing impairments in early childhood in German–speaking infants. Kiese–Himmel C, et al. **Eur Arch Otorhinolaryngol** 1997;254(3):133–9
MR imaging of acoustic neuroma with high resolution fast spin echo T2–weighted sequence. Soulié D, et al. **Eur J Radiol** 1997 Jan;24(1):61–5
In–office screening for age–related hearing and vision loss. Abyad A. **Geriatrics** 1997 Jun;52(6):45–6, 51–4, 57
Frequency–specific identification of hearing loss using transient–evoked otoacoustic emissions to clicks and tones. Lichtenstein V, et al. **Hear Res** 1996 Sep 1;98(1–2):125–36
A cost–effectiveness analysis of the high risk register and auditory brainstem response. Friedland DR, et al. **Int J Pediatr Otorhinolaryngol** 1996 Dec 20;38(2):115–30
The age of diagnosis of sensorineural hearing impairment in children. Kittrell AP, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jun 20;40(2–3):97–106
Prevalence of otitis media, hearing impairment and cerumen impaction among school children in rural and urban Dar es Salaam, Tanzania. Minja BM, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):29–34
Profound hearing loss and presence of click–evoked otoacoustic emissions in the neonate: a report of two cases. Psarommatis IM, et al. **Int J Pediatr Otorhinolaryngol** 1997 Apr 11;39(3):237–43
Auditory brainstem response screening for hearing loss in high risk neonates. Watson DR, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jul;36(2):147–83 (131 ref.)
Bilateral acoustic neurofibromatosis camouflaged by corticosteroid treatment of sudden sensorineural hearing loss. Gaffney RJ, et al. **Ir J Med Sci** 1996 Jul–Sep; 165(3):151–2
Asymmetric hearing loss: toward cost–effective diagnosis. Raber E, et al. **J Otolaryngol** 1997 Apr;26(2):88–91
Otoacoustic emissions as a screening tool for sensorineural hearing loss [editorial; comment] Cox LC. **J Pediatr** 1997 May;130(5):685–6. Comment on: J Pediatr 1997 May;130(5):712–7.
Hearing impairment in infants after meningitis: detection by transient evoked otoacoustic emissions [see comments] François M, et al. **J Pediatr** 1997 May;130(5):712–7. Comment in: J Pediatr 1997 May;130(5):685–6.
Modulation masking in listeners with sensorineural hearing loss. Lorenzi C, et al. **J Speech Lang Hear Res** 1997 Feb; 40(1):200–7
Appropriateness of magnetic resonance imaging in sudden sensorineural hearing loss. Weber PC, et al. **Otolaryngol Head Neck Surg** 1997 Feb;116(2):153–6
Sensorineural hearing deficit: a systematic approach based on imaging findings. Swartz JD. **Radiographics** 1996 May; 16(3):561–74 (38 ref.)
Effects of rise–fall time and repetition rate on the auditory brainstem response to 0.5 and 1 kHz tone bursts using normal–hearing and hearing–impaired subjects. Beattie RC, et al. **Scand Audiol** 1997;26(1):23–32
Extended high–frequency audiometry in traumatic tympanic membrane perforations. Hallmo P. **Scand Audiol** 1997; 26(1):53–9
Auditory nerve disease of both ears revealed by auditory brainstem responses, electrocochleography and otoacoustic emissions. Kaga K, et al. **Scand Audiol** 1996;25(4):233–8
Predicting the speech recognition performance of elderly individuals with sensorineural hearing impairment. A procedure based on the Speech Intelligibility Index. Magnusson L. **Scand Audiol** 1996;25(4):215–22
Audio–visual speechreading in a group of hearing aid users. The effects of onset age, handicap age, and degree of hearing loss. Tillberg I, et al. **Scand Audiol** 1996; 25(4):267–72
Application of cross–correlation function in the evaluation of objective MLR thresholds in the low and middle frequencies. Xu ZM, et al. **Scand Audiol** 1995;24(4):231–6
[Cogan I syndrome. Audio–vestibular, ophthalmologic findings and therapy in 6 patients] Bohndorf M, et al. **HNO** 1996 Jun;44(6):302–6 (Eng. Abstr.) **(Ger)**
[Assessment of cochlear function with distortion products of otoacoustic emissions in acoustic neuroma] Oeken J. **HNO** 1996 Dec;44(12):677–84 (Eng. Abstr.) **(Ger)**
[Possibility for quantitative and frequency–specific assessment of auditory threshold with otoacoustic emissions] Dreher A, et al. **Laryngorhinootologie** 1997 Jan; 76(1):2–7 (Eng. Abstr.) **(Ger)**
[Recruitment detection—a comparison of category loudness scaling and classical supra–threshold audiometry] Kiessling J, et al. **Laryngorhinootologie** 1996 Jan;75(1):10–7 (Eng. Abstr.) **(Ger)**
[Amplitude modulation following response (AMFR)—a method for objective frequency specific audiologic diagnosis] Pethe J, et al. **Laryngorhinootologie** 1996 Jan; 75(1):23–8 (Eng. Abstr.) **(Ger)**
[Speech audiometry with logatomes] Welge–Lüssen A, et al. **Laryngorhinootologie** 1997 Feb;76(2):57–64 (Eng. Abstr.) **(Ger)**
[Stapedotomy vs stapedectomy. Comparison of hearing results] Motta G, et al. **Acta Otorhinolaryngol Ital** 1996 Apr;16(2 Suppl 53):36–41 (Eng. Abstr.) **(Ita)**
[Otoacoustic emission measurements. Clinical case reports. Part I] Kowalska S, et al. **Otolaryngol Pol** 1996; 50(4):417–27 (Eng. Abstr.) **(Pol)**
[Early diagnosis of neurosensory component in various forms of conductive hearing loss] Magomedov MM, et al. **Vestn Otorinolaringol** 1997;(3):25–9 (Eng. Abstr.) **(Rus)**
[Prevalence of age–related hearing loss in a primary care clinic] Melgarejo Moreno PJ, et al. **Acta Otorrinolaringol Esp** 1996 May–Jun;47(3):213–5 (Eng. Abstr.) **(Spa)**
[Topographic diagnosis of hearing loss in patients with ischemic heart disease. Use of high–rate brain stem evoked response audiometry] Pérez Villa J, et al. **Acta Otorrinolaringol Esp** 1996 Nov–Dec;47(6):441–7 (Eng. Abstr.) **(Spa)**
[New advances in inner ear diagnostic imaging] Guirado C, et al. **An Otorrinolaringol Ibero Am** 1997;24(1):57–70 (Eng. Abstr.) **(Spa)**
[Bilateral hypoacusia and basilar dolichoectasia] López–Domínguez JM, et al. **Rev Neurol** 1996 Dec; 24(136):1538–40 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Effect of neurotrophic factors on the inner ear: clinical implications. Kopke R, et al. **Acta Otolaryngol (Stockh)** 1996 Mar;116(2):248–52 (25 ref.)
Prognosis and treatment of sudden sensorineural hearing loss. Fetterman BL, et al. **Am J Otol** 1996 Jul;17(4):529–36
Patterns of hearing recovery in idiopathic sudden sensorineural hearing loss. Harada T. **Br J Audiol** 1996 Dec;30(6):363–7
Bilateral acoustic neurofibromatosis camouflaged by corticosteroid treatment of sudden sensorineural hearing loss. Gaffney RJ, et al. **Ir J Med Sci** 1996 Jul–Sep; 165(3):151–2
Efficacy of methotrexate in Cogan's syndrome [letter] Riente L, et al. **J Rheumatol** 1996 Oct;23(10):1830–1
Proliferation in the auditory receptor epithelium mediated by a cyclic AMP–dependent signaling pathway [see comments] Navaratnam DS, et al. **Nat Med** 1996 Oct; 2(10):1136–9. Comment in: Nat Med 1996 Oct;2(10):1082–3.
Stimulating hair cell regeneration: on a wing and a prayer [comment] Rubel EW, et al. **Nat Med** 1996 Oct; 2(10):1082–3. Comment on: Nat Med 1996 Oct;2(10):1136–9.
[Treatment of neurosensory hypoacusis of antibiotic and non–antibiotic etiology with mydocalm and nootropil: comparison of efficacy] Alibekov IM. **Vestn Otorinolaringol** 1997;(4):20–3 (Eng. Abstr.) **(Rus)**
[Sudden hearing loss. Treatment with piracetam] Solanellas Soler J, et al. **Acta Otorrinolaringol Esp** 1997 Jan–Feb; 48(1):21–5 (Eng. Abstr.) **(Spa)**

EPIDEMIOLOGY

Infant hearing screening with an automated auditory brainstem response screener and the auditory brainstem response. Chen SJ, et al. **Acta Paediatr** 1996 Jan;85(1):14–8
Prevalence of severe to profound sensorineural hearing loss in children having family members with hearing impairment. Zakzouk SM, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):882–6
Prevalence of sensorineural hearing loss in Asian children. Naeem Z, et al. **Br J Audiol** 1996 Oct;30(5):332–9
The prevalence of Usher syndrome and other retinal

dystrophy–hearing impairment associations. Rosenberg T, et al. **Clin Genet** 1997 May;51(5):314–21

Prevalence and etiology of bilateral sensorineural hearing impairment in a Finnish childhood population. Vartiainen E, et al. **Int J Pediatr Otorhinolaryngol** 1997 Aug 20; 41(2):175–85

Sudden bilateral sensorineural hearing loss. Fetterman BL, et al. **Laryngoscope** 1996 Nov;106(11):1347–50

Prevalence of childhood hearing impairment in southern Finland. Karikoski JO, et al. **Scand Audiol** 1995; 24(4):237–41

ETIOLOGY

Possible involvement of nitric oxide in the sensorineural hearing loss of bacterial meningitis. Amaee FR, et al. **Acta Otolaryngol (Stockh)** 1997 May;117(3):329–36

Effect of Pseudomonas aeruginosa exotoxin A on inner ear function. Stenqvist M, et al. **Acta Otolaryngol (Stockh)** 1997 Jan;117(1):73–9

Audiological findings in kernicteric patients. Ozcelik T, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):31–4

Hearing conservation in surgery for glomus jugulare tumors [published erratum appears in Am J Otol 1996 Nov;17(6):917] Jackson CG, et al. **Am J Otol** 1996 May; 17(3):425–37 (137 ref.)

Normal evoked otoacoustic emissions with a profound hearing loss due to a juvenile pilocytic astrocytoma. Monroe JA, et al. **Am J Otol** 1996 Jul;17(4):639–42

Arterial dissection of the vertebrobasilar systems: a possible cause of acute sensorineural hearing loss. Nagahata M, et al. **Am J Otol** 1997 Jan;18(1):32–8

Reversible sensorineural hearing loss after renal transplant immunosuppression with OKT3 (muromonab–CD3). Hartnick CJ, et al. **Ann Otol Rhinol Laryngol** 1997 Aug; 106(8):640–2

The role of hypotension in the pathogenesis of sudden hearing loss. Pirodda A, et al. **Audiology** 1997 Mar–Apr; 36(2):98–108

Risk factors of sensorineural hearing loss in preterm infants. Borradori C, et al. **Biol Neonate** 1997;71(1):1–10

Real ear to coupler differences in children having otitis media with effusion. Martin HC, et al. **Br J Audiol** 1996 Apr; 30(2):71–8

Risk factors for childhood sensorineural hearing loss in the Oxford region. Sutton GJ, et al. **Br J Audiol** 1997 Feb; 31(1):39–54

Hearing loss following spinal anaesthesia with bupivacaine. Hussain SS, et al. **Clin Otolaryngol** 1996 Oct;21(5):449–54

Hearing and Sjögren's syndrome. Trott MS, et al. **Ear Nose Throat J** 1996 Oct;75(10):666–8

Sensorineural hearing loss in patients with sickle cell anaemia in Kenya. Tsibulevskaya G, et al. **East Afr Med J** 1996 Jul;73(7):471–3

The behavioral salience of tones as indicated by prepulse inhibition of the startle response: relationship to hearing loss and central neural plasticity in C57BL/6J mice. Carlson S, et al. **Hear Res** 1996 Sep 15;99(1–2):168–75

In vivo binding and hearing loss after intracochlear infusion of KHRI–3 antibody. Nair TS, et al. **Hear Res** 1997 May; 107(1–2):93–101

Correlative evidence of hypertension and altered cochlear microhomeostasis: electrophysiological changes in the spontaneously hypertensive rat. Rarey KE, et al. **Hear Res** 1996 Dec 1;102(1–2):63–9

Inner ear DNA receptors in MRL/lpr autoimmune mice: potential 30 and 70 kDa link between autoimmune disease and hearing loss. Trune DR, et al. **Hear Res** 1997 Mar; 105(1–2):57–64

Sensorineural hearing loss following acute bacterial meningitis--a prospective evaluation. Damodaran A, et al. **Indian Pediatr** 1996 Sep;33(9):763–6

Prevalence of otitis media, hearing impairment and cerumen impaction among school children in rural and urban Dar es Salaam, Tanzania. Minja BM, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):29–34

Prevalence and etiology of bilateral sensorineural hearing impairment in a Finnish childhood population. Vartiainen E, et al. **Int J Pediatr Otorhinolaryngol** 1997 Aug 20; 41(2):175–85

Postirradiation sensorineural hearing loss: a common but ignored late radiation complication [editorial; comment] Grau C, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1; 36(2):515–7. Comment on: Int J Radiat Oncol Biol Phys 1996 Sep 1;36(2):281–9.

Sensorineural hearing loss in patients treated for nasopharyngeal carcinoma: a prospective study of the effect of radiation and cisplatin treatment [see comments] Kwong DL, et al. **Int J Radiat Oncol Biol Phys** 1996 Sep 1; 36(2):281–9. Comment in: Int J Radiat Oncol Biol Phys 1996 Sep 1;36(2):515–7.

Superficial siderosis of the central nervous system. O'Riordan JI, et al. **Ir J Med Sci** 1996 Jul–Sep;165(3):182–4

Audio–vestibular manifestations of Chiari malformation and outcome of surgical decompression: a case report. Ahmmed AU, et al. **J Laryngol Otol** 1996 Nov;110(11):1060–4

Superficial siderosis of the central nervous system: an underestimated cause of hearing loss. Castelli ML, et al. **J Laryngol Otol** 1997 Jan;111(1):60–2

CT screening for temporal bone abnormalities in idiopathic bilateral sensorineural hearing loss. Harcourt JP, et al. **J Laryngol Otol** 1997 Feb;111(2):117–21

Cochlear implantation in superficial siderosis. Irving RM, et al. **J Laryngol Otol** 1996 Dec;110(12):1151–3

Evaluation of hearing loss with auditory brainstem responses in the early and late period of bacterial meningitis in children. Külahli I, et al. **J Laryngol Otol** 1997 Mar; 111(3):223–7

Sensorineural hearing loss and ulcerative colitis. Kumar BN, et al. **J Laryngol Otol** 1997 Mar;111(3):277–8

Large endolymphatic sac. A congenital deformity of the inner ear shown by magnetic resonance imaging. Phelps PD, et al. **J Laryngol Otol** 1997 Aug;111(8):754–6

Madras pattern of motor neuron disease: case report from Thailand. Phanthumchinda K, et al. **J Med Assoc Thai** 1996 Jun;79(6):399–402 (11 ref.)

Prospective study of New Zealand very low birthweight infants: outcome at 7–8 years. Darlow BA, et al. **J Paediatr Child Health** 1997 Feb;33(1):47–51

Progressive and fluctuating sensorineural hearing loss in children with asymptomatic congenital cytomegalovirus infection. Fowler KB, et al. **J Pediatr** 1997 Apr; 130(4):624–30

Hearing impairment in infants after meningitis: detection by transient evoked otoacoustic emissions [see comments] François M, et al. **J Pediatr** 1997 May;130(5):712–7. Comment in: J Pediatr 1997 May;130(5):685–6.

Hearing loss and herpes simplex. al Muhaimeed H, et al. **J Trop Pediatr** 1997 Feb;43(1):20–4

Sudden sensorineural hearing loss after general anesthesia for nonotologic surgery. Evan KE, et al. **Laryngoscope** 1997 Jun;107(6):747–52 (40 ref.)

Fibrous dysplasia of the temporal bone: reversal of sensorineural hearing loss after decompression of the internal auditory canal. Morrissey DD, et al. **Laryngoscope** 1997 Oct;107(10):1336–40 (18 ref.)

Can hypotension episodes cause cochlear damage in young subjects? Pirodda A, et al. **Med Hypotheses** 1997 Mar; 48(3):195–6

Traumatic hearing loss following air–bag inflation [letter] Kramer MB, et al. **N Engl J Med** 1997 Aug 21;337(8):574–5

Management of vestibular schwannomas (acoustic neuromas): auditory and facial nerve function after resection of 120 vestibular schwannomas in patients with neurofibromatosis 2. Samii M, et al. **Neurosurgery** 1997 Apr;40(4):696–705; discussion 705–6

Management of 1000 vestibular schwannomas (acoustic neuromas): hearing function in 1000 tumor resections. Samii M, et al. **Neurosurgery** 1997 Feb;40(2):248–60; discussion 260–2 (99 ref.)

Cost–effective evaluation of asymmetric sensorineural hearing loss with focused magnetic resonance imaging. Carrier DA, et al. **Otolaryngol Head Neck Surg** 1997 Jun; 116(6 Pt 1):567–74

Hearing loss as a complication of stapes surgery. Mann WJ, et al. **Otolaryngol Head Neck Surg** 1996 Oct;115(4):324–8

Hearing results in tympanoplasty in Riyadh. Attallah MS, et al. **Otolaryngol Pol** 1996;50(2):145–51

Perinatal asphyxia, hypoxia, ischemia and hearing loss. An overview. Borg E. **Scand Audiol** 1997;26(2):77–91 (53 ref.)

Extended high–frequency audiometry in traumatic tympanic membrane perforations. Hallmo P. **Scand Audiol** 1997; 26(1):53–9

[Bilateral perception deafness in adult onset Still disease (letter)] Zenone T, et al. **Presse Med** 1996 Sep 14; 25(26):1213 **(Fre)**

[Hearing loss—current data on diagnosis and therapy] **HNO** 1994 Feb;42(2 Suppl):1–8 **(Ger)**

[Cochleoscopy (comment)] Gstöttner W. **HNO** 1997 Apr; 45(4):179–80. Comment on: HNO 1997 Apr;45(4):216–21. **(Ger)**

[Protracted course of polychondritis as the etiology of progressive nose deformity, subglottic tracheal stenosis and inner ear hearing loss] Buttgereit F, et al. **Laryngorhinootologie** 1997 Jan;76(1):46–9 (Eng. Abstr.) **(Ger)**

[No evidence for hearing aid–induced progressive pediatric hearing loss in the Cologne region] Streppel M, et al. **Wien Med Wochenschr** 1997;147(10):234–8 (Eng. Abstr.) **(Ger)**

[Sensorineural hearing loss caused by middle ear surgery] Sakagami M, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jul;100(7):740–6 (Eng. Abstr.) **(Jpn)**

[The effect of perinatal factors on development of congenital sensorineural hearing loss in children] Kovshenkova ID. **Vestn Otorinolaringol** 1996 Sep–Oct;(5):33–4 (Eng. Abstr.) **(Rus)**

[Neurosarcoidosis. Sensorineural hearing loss] Avilés Mañoso P, et al. **Acta Otorrinolaringol Esp** 1997 Apr;48(3):229–31 (Eng. Abstr.) **(Spa)**

[Sudden hearing loss and HIV infection] Solanellas Soler J, et al. **Acta Otorrinolaringol Esp** 1996 Jul–Aug;47(4):311–3 (Eng. Abstr.) **(Spa)**

[Deafnes& from leptomeningeal metastasis] Hernández–Ramos FJ, et al. **Neurologia** 1996 Nov;11(9):344 **(Spa)**

[Transient bilateral hearing loss after spinal anesthesia (letter) (see comments)] Sánchez–Conde P, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):229–30. Comment in: Rev Esp Anestesiol Reanim 1997 Jan;44(1):42. **(Spa)**

[Deafness secondary to lumbar puncture] Conde M, et al. **Rev Neurol** 1997 Aug;25(144):1218–20 (11 ref.) (Eng. Abstr.) **(Spa)**

[Perceptive deafness and AIDS] Sancho EM, et al. **Rev Neurol** 1997 Jun;25(142):887–90 (Eng. Abstr.) **(Spa)**

GENETICS

Further observations on the role of the MHC genes and certain hearing disorders. Bernstein JM, et al. **Acta Otolaryngol (Stockh)** 1996 Sep;116(5):666–71

Mitochondrial DNA mutation at nucleotide 1555 in a patient with bilateral sensorineural hearing loss of unknown etiology. Tamagawa Y, et al. **Acta Otolaryngol (Stockh)** 1996 Nov;116(6):796–8

Nonsyndromic hearing impairment: unparalleled heterogeneity. Van Camp G, et al. **Am J Hum Genet** 1997 Apr;60(4):758–64 (60 ref.)

Myosin VIIA mutation screening in 189 Usher syndrome type 1 patients. Weston MD, et al. **Am J Hum Genet** 1996 Nov;59(5):1074–83

Oto– spondylo–megaepiphyseal dysplasia (OSMED): clinical description of three patients homozygous for a missense mutation in the COL11A2 gene. van Steensel MA, et al. **Am J Med Genet** 1997 Jun 13;70(3):315–23

Audiological findings of sensorineural deafness associated with a mutation in the mitochondrial DNA. Sawada S, et al. **Am J Otol** 1997 May;18(3):332–5

Carriers of the Usher syndrome type IB: is audiometric identification possible? Wagenaar M, et al. **Am J Otol** 1996 Nov;17(6):853–8

Molecular analysis of the POU3F4 gene in patients with clinical and radiographic evidence of X–linked mixed deafness with perilymphatic gusher. Friedman RA, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):320–5

Distortion product emissions in normal–hearing and low–frequency hearing loss carriers of genes for Waardenburg's syndrome. Liu XZ, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):220–5

Investigation of the 4,000–Hertz dip by detailed audiometry. Murai K. **Ann Otol Rhinol Laryngol** 1997 May; 106(5):408–13

Audiologic features of hearing loss due to the 1,555 mutation of mitochondrial DNA. Tsuiki T, et al. **Ann Otol Rhinol Laryngol** 1997 Aug;106(8):643–8

Prevalence of severe to profound sensorineural hearing loss in children having family members with hearing impairment. Zakzouk SM, et al. **Ann Otol Rhinol Laryngol** 1996 Nov;105(11):882–6

Inherited nonsyndromic hearing loss. An audiovestibular study in a large family with autosomal dominant progressive hearing loss related to DFNA2. Marres H, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jun;123(6):573–7

The gene for Pendred syndrome is located between D7S501 and D7S692 in a 1.7–cM region on chromosome 7q. Coucke P, et al. **Genomics** 1997 Feb 15;40(1):48–54

Refined mapping of the Usher syndrome type III locus on chromosome 3, exclusion of candidate genes, and identification of the putative mouse homologous region. Joensuu T, et al. **Genomics** 1996 Dec 15;38(3):255–63

Linkage analysis of progressive hearing loss in five extended families maps the DFNA2 gene to a 1.25–Mb region on chromosome 1p. Van Camp G, et al. **Genomics** 1997 Apr 1;41(1):70–4

Human Usher 1B/mouse shaker–1: the retinal phenotype discrepancy explained by the presence/absence of myosin VIIA in the photoreceptor cells. el–Amraoui A, et al. **Hum Mol Genet** 1996 Aug;5(8):1171–8

A newly identified locus for Usher syndrome type I, USH1E, maps to chromosome 21q21. Chaïb H, et al. **Hum Mol Genet** 1997 Jan;6(1):27–31

Mapping of DFNB12, a gene for a non–syndromal autosomal recessive deafness, to chromosome 10q21–22. Chaib H, et al. **Hum Mol Genet** 1996 Jul;5(7):1061–4

Identification of a new locus for autosomal dominant non–syndromic hearing impairment (DFNA7) in a large Norwegian family. Fagerheim T, et al. **Hum Mol Genet** 1996 Aug;5(8):1187–91

Myosin VIIA gene: heterogeneity of the mutations responsible for Usher syndrome type IB. Lévy G, et al. **Hum Mol Genet** 1997 Jan;6(1):111–6

A gene for non–syndromic autosomal dominant progressive postlingual sensorineural hearing loss maps to chromosome 14q12–13. Manolis EN, et al. **Hum Mol Genet** 1996 Jul; 5(7):1047–50

A gene for autosomal dominant late–onset progressive non–syndromic hearing loss, DFNA10, maps to chromosome 6. O'Neill ME, et al. **Hum Mol Genet** 1996 Jun;5(6):853–6

Localization of the Usher syndrome type ID gene (Ush1D) to chromosome 10. Wayne S, et al. **Hum Mol Genet** 1996 Oct;5(10):1689–92

Identification of a new mutation of the myosin VII head region in Usher syndrome type 1. Liu XZ, et al. **Hum Mutat** 1997;10(2):168–70

Non–syndromic dominant sensorineural hearing loss: from a few phenotypes to many genotypes. Stinckens C, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jan 3;38(3):237–45 (47 ref.)

Evidence for a fourth locus in Usher syndrome type I. Gerber S, et al. **J Med Genet** 1996 Jan;33(1):77–9

Genetic and clinical features of sensorineural hearing loss associated with the 1555 mitochondrial mutation. Usami S, et al. **Laryngoscope** 1997 Apr;107(4):483–90

Peripheral retinopathy in offspring of carriers of Norrie disease gene mutations. Possible transplacental effect of abnormal Norrin. Mintz–Hittner HA, et al.

Ophthalmology 1996 Dec;103(12):2128–34

[Genetic deafness and Pendred syndrome] Ayerbe I, et al. **Rev Laryngol Otol Rhinol (Bord)** 1997;118(2):113–7 (32 ref.) (Eng. Abstr.) **(Fre)**

[Genetic aspects of deafness] Dallapiccola B, et al. **Acta Otorhinolaryngol Ital** 1996 Apr;16(2):79–90 (63 ref.) (Eng. Abstr.) **(Ita)**

IMMUNOLOGY

[Sudden sensorineural hearing loss associated with anticardiolipin antibody] Hisashi K, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Sep;99(9):1157–61 (Eng. Abstr.) **(Jpn)**

[A study of inner ear autoantibodies in patients with sensorineural hearing loss] Kosaka K. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Feb;100(2):205–12 (Eng. Abstr.) **(Jpn)**

[A case of myeloperoxidase-specific antineutrophil cytoplasmic antibody (MPO-ANCA)-related glomerulonephritis associated with Cogan's syndrome] Suzuki M, et al. **Nippon Jinzo Gakkai Shi** 1996 Sep; 38(9):423–7 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Hearing loss during bacterial meningitis [published erratum appears in Arch Dis Child 1997 Apr;76(4):386] Richardson MP, et al. **Arch Dis Child** 1997 Feb;76(2):134–8

Reversible sensorineural hearing loss in Lyme disease. Quinn SJ, et al. **J Laryngol Otol** 1997 Jun;111(6):562–4

Group B streptococcal sepsis and meningitis complicated with severe sensorineural hearing loss in a fourteen-year-old boy. Likitnukul S, et al. **Pediatr Infect Dis J** 1996 May;15(5):468–70 (15 ref.)

NURSING

Cochlear implantations in children. Stinson A. **AORN J** 1996 Oct;64(4):561–2, 565–71

PATHOLOGY

Apparently new syndrome of congenital cataracts, sensorineural deafness, Down syndrome-like facial appearance, short stature, and mental retardation [letter; comment] Aymé S, et al. **Am J Med Genet** 1997 Jun 13; 70(3):333–5. Comment on: Am J Med Genet 1996 Feb 2;61(4):382–6.

New autosomal recessive syndrome of progressive sensorineural hearing loss and cataracts: report on two Brazilian patients. De Vitto LP, et al. **Am J Med Genet** 1997 Jun 13;70(3):247–9

An observation on otoacoustic emission and ultrastructure of cochlea in experimental autoimmune inner ear disease. Zou J, et al. **Chin Med J (Engl)** 1996 Aug;109(8):639–44

PHYSIOPATHOLOGY

Distortion product otoacoustic emission test of sensorineural hearing loss: performance regarding sensitivity, specificity and receiver operating characteristics. Kim DO, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):3–11

Evaluation of TEOAE and DPOAE measurements for the assessment of auditory thresholds in sensorineural hearing loss. Suckfüll M, et al. **Acta Otolaryngol (Stockh)** 1996 Jul; 116(4):528–33

Audiological findings in kernicteric patients. Ozcelik T, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):31–4

Perilymphatic fistula in teens and young adults: emphasis on preexisting sensorineural hearing loss. Fitzgerald DC. **Am J Otol** 1996 May;17(3):397–400

Localizing retrocochlear hearing loss. Hirsch BE, et al. **Am J Otol** 1996 Jul;17(4):537–46

Normal evoked otoacoustic emissions with a profound hearing loss due to a juvenile pilocytic astrocytoma. Monroe JA, et al. **Am J Otol** 1996 Jul;17(4):639–42

Identification of hearing loss using TEOAE descriptors: theoretical foundations and preliminary results. Hatzopoulos S, et al. **Audiology** 1995 Sep–Oct;34(5):248–59

Bilaterally preserved otoacoustic emissions in four children with profound idiopathic unilateral sensorineural hearing loss. Konrádsson KS. **Audiology** 1996 Jul–Aug;35(4):217–27

Assessing aspects of auditory handicap by means of pupil dilatation. Kramer SE, et al. **Audiology** 1997 May–Jun; 36(3):155–64

The effects of cochlear hearing loss, age and sex on the auditory brainstem response. Watson DR. **Audiology** 1996 Sep–Oct;35(5):246–58

An observation on otoacoustic emission and ultrastructure of cochlea in experimental autoimmune inner ear disease. Zou J, et al. **Chin Med J (Engl)** 1996 Aug;109(8):639–44

Neuroradiology and clinical aspects of Usher syndrome. Tamayo ML, et al. **Clin Genet** 1996 Sep;50(3):126–32

Changes in the immunoreactivity of protein gene product (PGP) 9.5 in the cochlea of spontaneously diabetic WBN/Kob rats. Ishikawa T, et al. **Diabetologia** 1997 Feb; 40(2):173–8

Response thresholds in electrocochleography and their relation to the pure tone audiogram. Schoonhoven R, et al. **Ear Hear** 1996 Jun;17(3):266–75

The role of outer hair cell damage in the loss of hearing. Zenner HP. **Ear Nose Throat J** 1997 Mar;76(3):140, 143–4

Auditory cortical responses in humans with profound unilateral sensorineural hearing loss from early childhood. Vasama JP, et al. **Hear Res** 1997 Feb;104(1–2):183–90

Linearized response growth inferred from growth-of-masking slopes in ears with cochlear hearing loss. Nelson DA, et al. **J Acoust Soc Am** 1997 Apr; 101(4):2186–201

A behavioral measure of basilar-membrane nonlinearity in listeners with normal and impaired hearing. Oxenham AJ, et al. **J Acoust Soc Am** 1997 Jun;101(6):3666–75

Short-term temporal integration: evidence for the influence of peripheral compression. Oxenham AJ, et al. **J Acoust Soc Am** 1997 Jun;101(6):3676–87

Perceptual organization of sequential stimuli in listeners with cochlear hearing loss. Grose JH, et al. **J Speech Hear Res** 1996 Dec;39(6):1149–58

Can hypotension episodes cause cochlear damage in young subjects? Pirodda A, et al. **Med Hypotheses** 1997 Mar; 48(3):195–6

Ocular tilt reaction associated with a sudden idiopathic unilateral peripheral cochleovestibular loss. Vibert D, et al. **ORL J Otorhinolaryngol Relat Spec** 1995 Nov–Dec; 57(6):310–5

Auditory pseudohallucinations induced by a combination of hearing impairment and environmental stress. Balan S, et al. **Psychopathology** 1996;29(3):198–200

Auditory nerve disease of both ears revealed by auditory brainstem responses, electrocochleography and otoacoustic emissions. Kaga K, et al. **Scand Audiol** 1996;25(4):233–8

[Otoacoustic emission and auditory efferent function testing in normal subjects and patients with sensori-neural hearing loss] Liang F, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):763–6 (Eng. Abstr.) **(Chi)**

[Effect of inner ear hearing loss on delayed otoacoustic emissions (TEOAE) and distortion products (DPOAE)] Hoth S. **Laryngorhinootologie** 1996 Dec;75(12):709–18 (Eng. Abstr.) **(Ger)**

[Clinical features and prognosis of facial palsy and hearing loss in patients with Ramsay Hunt syndrome] Murakami S, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Dec; 99(12):1772–9 (Eng. Abstr.) **(Jpn)**

[Long-term observation of sensorineural hearing-impaired children with hearing aids] Sugiuchi T, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Jul;100(7):754–61 (Eng. Abstr.) **(Jpn)**

[Study of trough type audiogram of sudden hearing loss] Takebayashi S, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Mar;100(3):295–8 (Eng. Abstr.) **(Jpn)**

[A cross-modal study of the perception of stimulus intensity in peripheral neurosensory hearing loss] Petrov SM. **Fiziol Cheloveka** 1997 May–Jun;23(3):125–6 **(Rus)**

[Bilateral hypoacusia and basilar dolichoectasia] López-Domínguez JM, et al. **Rev Neurol** 1996 Dec; 24(136):1538–40 (Eng. Abstr.) **(Spa)**

PREVENTION & CONTROL

Management of vestibular schwannomas (acoustic neuromas): the value of neurophysiology for evaluation and prediction of auditory function in 420 cases. Matthies C, et al. **Neurosurgery** 1997 May;40(5):919–29; discussion 929–30 (44 ref.)

Cochlear protection from carbon monoxide exposure by free radical blockers in the guinea pig. Fechter LD, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):47–55

REHABILITATION

Cochlear implantation in an intralabyrinthine acoustic neuroma patient after resection of an intracanalicular tumor. Tono T, et al. **Adv Otorhinolaryngol** 1997;52:155–7

Rehabilitation of hearing-impaired children: intervention and outcome. Vesterager V, et al. **Audiology** 1995 Jul–Aug; 34(4):207–17

Predictors of daily assessed hearing aid use and hearing capability using visual analogue scales. Andersson G, et al. **Br J Audiol** 1996 Feb;30(1):27–35

Effect of initial setting on convergence to optimal hearing aid setting using a simplex method. Kuk FK, et al. **Br J Audiol** 1995 Oct;29(5):263–9

Real ear to coupler differences in children having otitis media with effusion. Martin HC, et al. **Br J Audiol** 1996 Apr; 30(2):71–8

The relationship between uncomfortable loudness level and maximum power output in subjects recently fitted with NHS hearing aids. Munro KJ, et al. **Br J Audiol** 1996 Aug; 30(4):275–85

Perceived sound quality of three bone-anchored hearing aid models. Ringdahl A, et al. **Br J Audiol** 1995 Dec; 29(6):309–14

Early intervention for hearing impairment: differences in the timing of communicative and linguistic development. Robinshaw HM. **Br J Audiol** 1995 Dec;29(6):315–34

The pattern of development from non-communicative behaviour to language by hearing impaired and hearing infants. Robinshaw HM. **Br J Audiol** 1996 Jun;30(3):177–98

Effects of earmold type on ability to locate sounds when wearing hearing aids. Byrne D, et al. **Ear Hear** 1996 Jun; 17(3):218–28

The time course of hearing aid benefit. Horwitz AR, et al. **Ear Hear** 1997 Feb;18(1):1–11

The relationship between listening conditions and alternative amplification schemes for multiple memory hearing aids. Keidser G. **Ear Hear** 1995 Dec;16(6):575–86

A digital filterbank hearing aid: predicting user preference and performance for two signal processing algorithms. Lunner T, et al. **Ear Hear** 1997 Feb;18(1):12–25

Acclimatization to hearing aids. Saunders GH, et al. **Ear Hear** 1997 Apr;18(2):129–39

Comparison of linear and K-Amp circuits. Surr RK, et al. **Ear Hear** 1997 Apr;18(2):140–6

Initial independent results with the Clarion cochlear implant. Tyler RS, et al. **Ear Hear** 1996 Dec;17(6):528–36

Physiological plasticity in the auditory system and its possible relevance to hearing aid use, deprivation effects, and acclimatization. Willott JF. **Ear Hear** 1996 Jun;17(3 Suppl):66S–77S

Perception of internally generated noise in hearing amplification. Agnew J. **J Am Acad Audiol** 1996 Aug; 7(4):296–303

Benefit acclimatization in elderly hearing aid users. Cox RM, et al. **J Am Acad Audiol** 1996 Dec;7(6):428–41

Efficacy of audiologic rehabilitation for older adults. Kricos PB, et al. **J Am Acad Audiol** 1996 Aug;7(4):219–29

Monaural/binaural preferences: effect of hearing aid circuit on speech intelligibility and sound quality. Naidoo SV, et al. **J Am Acad Audiol** 1997 Jun;8(3):188–202

Relationship of aided speech recognition to hearing thresholds and aided speech-peak sensation levels in severely and profoundly hearing-impaired adults. Parkinson AJ, et al. **J Am Acad Audiol** 1996 Oct;7(5):305–21

Consonant recognition performance of hearing-impaired listeners using one linear and three nonlinear hearing aids. Sammeth CA, et al. **J Am Acad Audiol** 1996 Aug; 7(4):240–50

Estimation of client-assessed hearing aid performance based upon unaided variables. Crowley HJ, et al. **J Speech Hear Res** 1996 Feb;39(1):19–27

Preference for and performance with damped and undamped hearing aids by listeners with sensorineural hearing loss. Davis LA, et al. **J Speech Hear Res** 1996 Jun;39(3):483–93

Negative intraoral air pressures of deaf children with cochlear implants: physiology, phonology, and treatment. Higgins MB, et al. **J Speech Hear Res** 1996 Oct; 39(5):957–67

Reliability and stability of various hearing-aid outcome measures in a group of elderly hearing-aid wearers. Humes LE, et al. **J Speech Hear Res** 1996 Oct;39(5):923–35

Effect of single-channel compression on temporal speech information. Souza PE, et al. **J Speech Hear Res** 1996 Oct; 39(5):901–11

A comparison of the benefit provided by well-fit linear hearing aids and instruments with automatic reductions of low-frequency gain. Humes LE, et al. **J Speech Lang Hear Res** 1997 Jun;40(3):666–85

Early speech changes in children with multichannel cochlear implants. Te GO, et al. **Otolaryngol Head Neck Surg** 1996 Dec;115(6):508–12

Speech concerns of hard-of-hearing adults. Gilbertson M, et al. **Percept Mot Skills** 1996 Oct;83(2):377–8

The Valby Project. A survey of the hearing in the elderly > or = 80 years of age-provided with hearing aids. Bech B, et al. **Scand Audiol** 1996;25(4):247–52

Sound quality judgment during acclimatization of hearing aid. Ovegård A, et al. **Scand Audiol** 1997;26(1):43–51

Hearing-aid fitting in profoundly hearing-impaired children. Comparison of prescription rules. Snik AF, et al. **Scand Audiol** 1995;24(4):225–30

[Quality control in pediatric hearing aid fitting] Niehaus HH, et al. **HNO** 1997 Feb;45(2):86–90 (Eng. Abstr.) **(Ger)**

[Cochlear implant in patients with residual hearing] Ruh S, et al. **Laryngorhinootologie** 1997 Jun;76(6):347–50 (Eng. Abstr.) **(Ger)**

[Progressive hearing loss in children with hearing aids] Streppel M, et al. **Laryngorhinootologie** 1997 Mar; 76(3):123–6 (Eng. Abstr.) **(Ger)**

[Current problems of pediatric audiology. Part II. Fitting of hearing aids, cochlear implants and care of the child with hearing loss] Heinemann M. **Otolaryngol Pol** 1996; 50(1):66–72 (20 ref.) (Eng. Abstr.) **(Pol)**

[The treatment of hypoacusis in children by using a pulsed low-frequency electromagnetic field] Bogomil'skiĭ MR, et al. **Vestn Otorinolaringol** 1996 Nov–Dec;(6):23–6 (Eng. Abstr.) **(Rus)**

[Surgery of the cochlear implant: complications] Cavallé L, et al. **An Otorrinolaringol Ibero Am** 1996;23(6):605–12 (Eng. Abstr.) **(Spa)**

SURGERY

Cochlear implantations in children. Stinson A. **AORN J** 1996 Oct;64(4):561–2, 565–71

Semi-implantable middle ear electromagnetic hearing device for sensorineural hearing loss. Maniglia AJ, et al. **Ear Nose Throat J** 1997 May;76(5):333–8, 340–1

Acute human trial of the floating mass transducer. Tjellström A, et al. **Ear Nose Throat J** 1997 Apr;76(4):204–6, 209–10

Bone anchored hearing aid wearers with significant sensorineural hearing losses (borderline candidates): patients' results and opinions. Hartland SH, et al. **J Laryngol Otol Suppl** 1996;21:41–6

THERAPY

Osmotic drugs in the treatment of cochlear disorders: a clinical and experimental study. Filipo R, et al. **Acta Otolaryngol (Stockh)** 1997 Mar;117(2):229–31

Recent developments in air-conduction hearing aids.

Arlinger S. **Ear Nose Throat J** 1997 May;76(5):310–5 (7 ref.)

Sensorineural hearing loss in children with thalassemia major in Northern Greece. Kontzoglou G, et al.
Int J Pediatr Otorhinolaryngol 1996 May;35(3):223–30

[Hearing impairment fitting: study of an auditory prosthesis with 7 entirely programmable filters] Chouard CH.
Bull Acad Natl Med 1997 Feb;181(2):275–86; discussion 286–7 (Eng. Abstr.) **(Fre)**

[NT-3 and BDNF for potential inner ear therapy] Knipper M. **HNO** 1997 Apr;45(4):181–3 **(Ger)**

[Efficacy of combined treatment of sensorineural hearing loss with electrostimulation and polycatan] Lobzov MS.
Vestn Otorinolaringol 1997;(1):40–1 **(Rus)**

[Reflex therapy in the treatment of cochleo-vestibular and olfactory disorders] Shibina LM, et al.
Vestn Otorinolaringol 1996 May–Jun;(3):48–50 (Eng. Abstr.) **(Rus)**

VETERINARY

[Continuous proliferation of supporting cells and indications for hair cell differentiation in the inner ear of adult song birds with genetic cochlear hearing loss] Gleich O, et al.
HNO 1996 Jun;44(6):307–12 (Eng. Abstr.) **(Ger)**

HEARING PROTECTIVE DEVICES see **EAR PROTECTIVE DEVICES**

HEARING TESTS

C1-tuning fork tests in school-aged children. Haapaniemi JJ, et al. **Auris Nasus Larynx** 1996;23:26–32

The views of parents of hearing impaired children on the need for neonatal hearing screening. Watkin PM, et al.
Br J Audiol 1995 Oct;29(5):259–62

Audiological findings in glomus tumours. Qiu WW, et al.
J Laryngol Otol 1997 Mar;111(3):218–22

Delayed diagnosis of large cerebello-pontine angle tumors, despite hearing conservation training [see comments] Mason RB, et al. **Mil Med** 1996 Feb;161(2):108–12. Comment in: Mil Med 1996 May;161(5):A5.

[Products of acoustic distortion in the examination of deafness in an infant] Molini E, et al.
Rev Laryngol Otol Rhinol (Bord) 1996;117(5):393–8 (Eng. Abstr.) **(Fre)**

[Hearing disorders in infants and young children. Possibilities for early diagnosis and therapy] Ptok M. **HNO** 1997 Apr; 45(4):183–4 **(Ger)**

[Imaging diagnosis and function tests--auditory agnosia (cortical deafness)] Kaga K.
Nippon Jibiinkoka Gakkai Kaiho 1996 Aug;99(8):1144–7 **(Jpn)**

[Sound lateralization testing based on interaural intensity difference discrimination and interaural time difference discrimination in acoustic neurinoma patients--comparison of ABRS] Takeda H, et al.
Nippon Jibiinkoka Gakkai Kaiho 1996 Jan;99(1):18–27 (Eng. Abstr.) **(Jpn)**

HISTORY

[History of the tuning fork. II: Evolution of the classical experiments by Weber, Rinne and Schwabach] Feldmann H. **Laryngorhinootologie** 1997 May;76(5):318–26 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Newborn hearing screening: comparison of a simplified otoacoustic emissions device (ILO1088) with the ILO88. Maxon AB, et al. **Early Hum Dev** 1996 Jul 5;45(1–2):171–8

METHODS

The value of behavioral methods of hearing examinations in comparison with ABR. Niedzielska G, et al.
Ann Univ Mariae Curie Sklodowska [Med] 1995;50:193–6

Outcomes of neonatal screening for hearing loss by otoacoustic emission. Watkin PM.
Arch Dis Child Fetal Neonatal Ed 1996 Nov;75(3):F158–68

Use of the distraction hearing test in children with congenital ocular motor apraxia. Rowe FJ, et al. **Br J Audiol** 1996 Oct;30(5):346–8

The whispered voice: the best test for screening for hearing impairment in general practice? Eekhof JA, et al.
Br J Gen Pract 1996 Aug;46(409):473–4

UTILIZATION

The relationship between audit, research and policy: lessons from a community paediatric audiology service. Fonseca S, et al. **Child Care Health Dev** 1997 Jan;23(1):63–76

HEART

consider also terms at CARDI- and MYOCARDI-

see related
ANGIOCARDIOGRAPHY
ANTI-ARRHYTHMIA AGENTS
BALLISTOCARDIOGRAPHY
CARDIOTONIC AGENTS
ELECTROCARDIOGRAPHY
MYOCARDIUM

Bullet embolism to the heart. Grewal KS, et al.
Am Heart J 1997 Apr;133(4):468–70

Protection of ischemic myocardium by inhibition of contracture in isolated rat heart. Tani M, et al.
Am J Physiol 1996 Dec;271(6 Pt 2):H2515–9

Beneficial effects of fluosol-polyethylene glycol cardioplegia on cold, preserved rabbit heart. Bhayana JN, et al.
Ann Thorac Surg 1997 Feb;63(2):459–64

Coronary microvascular reactivity after ischemic cold storage and reperfusion. Murphy CO, et al.
Ann Thorac Surg 1997 Jan;63(1):20–6; discussion 26–7

Percutaneous extraction of a fractured, exposed atrial "J" lead retention wire. Caudill CC, et al.
Cathet Cardiovasc Diagn 1996 Mar;37(3):342–6

Missiles in the cardiovascular system. Symbas PN, et al.
Chest Surg Clin N Am 1997 May;7(2):343–56 (28 ref.)

Comparison of 201Tl scintigraphy and low-dose dobutamine echocardiography for the noninvasive assessment of myocardial viability [editorial; comment] Beller GA.
Circulation 1996 Dec 1;94(11):2681–4. Comment on: Circulation 1996 Dec 1;94(11):2712–9.

Effect of protein kinase C inhibitors and 2,3-butanedione monoxime on the long-term hypothermic preservation of isolated rat hearts. Fagbemi OS, et al. **Clin Sci (Colch)** 1996 Dec;91(6):745–54

Myocardial protection in chronic volume-overload hypertrophy of immature rat hearts. Karck M, et al.
Eur J Cardiothorac Surg 1996;10(8):690–8

The combined effects of brain death and cardiac graft preservation on cardiopulmonary hemodynamics and function before and after subsequent heart transplantation. Bittner HB, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):764–77

Evaluation of myocardial viability during simple cold storage with the use of electrical properties in broad frequencies. Ishikawa M, et al. **J Heart Lung Transplant** 1996 Oct; 15(10):1005–11

Efficient in vivo gene transfer into the heart in the rat myocardial infarction model using the HVJ (Hemagglutinating Virus of Japan)--liposome method. Aoki M, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):949–59

Direct gene transfer into the mouse heart. Li K, et al.
J Mol Cell Cardiol 1997 May;29(5):1499–504

Twenty-four-hour intermittent perfusion storage of the isolated rat heart. II. Perfusion pressure and functional preservation. Zhu Q, et al. **J Surg Res** 1996 Feb 15; 61(1):159–64

Flow cytometry analysis of pan-T-, CD4(+)-, CD8(+)-, and pan-B lymphocytes in blood samples obtained from healthy, nontreated rats: comparison of lymphocyte subpopulations in blood samples obtained from rat heart and tail. Jensen JE, et al. **Lab Anim Sci** 1996 Oct; 46(5):579–81

Foreign body in the heart. Bedi HS, et al.
Tex Heart Inst J 1997;24(2):140–1

Significant effect of 1,4-benzothiazepine derivative (K2) in improving myocardial preservation. Hachida M, et al.
Transplant Proc 1997 Feb–Mar;29(1–2):1346–8

Which injury is the most important for rat heart preservation: flush, cold storage, and/or reperfusion injury? The effect of each injury on coronary endothelial function. Saitoh Y, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1342–5

Cytoprotective effects of the 60kD heat-shock protein enhanced by heat stress in rat cardiac grafts with warm ischemic injuries. Tamaki T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1340–1

The use of hibernation induction triggers for cardiac transplant preservation. Bolling SF, et al.
Transplantation 1997 Jan 27;63(2):326–9

Organ preservation solutions in heart transplantation--patterns of usage and related survival. Demmy TL, et al. **Transplantation** 1997 Jan 27;63(2):262–9

'Sudden death' in a dairy heifer [letter] Davies EV.
Vet Rec 1997 Aug 23;141(8):204

[Intracardiac foreign bodies] Masuda M, et al.
Ryoikibetsu Shokogun Shirizu 1996;(15):571–3 (15 ref.) **(Jpn)**

[Evaluation of the safety of focused ultrasound for noninvasive effect on the heart] Lebedev LV, et al.
Biull Eksp Biol Med 1997 Mar;123(3):332–5 **(Rus)**

ABNORMALITIES see HEART DEFECTS, CONGENITAL

ANATOMY & HISTOLOGY

Comparison of electron beam computed tomography scanning and magnetic resonance imaging quantification of right ventricular mass: validation with autopsy weights. Cutrone JA, et al. **Acad Radiol** 1996 May;3(5):395–400

Myocardial bridge muscle on left anterior descending coronary artery differs from subepicardial myocardium of the left ventricle in dogs. Yamaguchi M, et al.
Acta Anat (Basel) 1996;157(3):238–47

Echocardiographic estimates related to various body size measures in athletes. Paylik G, et al.
Acta Physiol Hung 1996;84(2):171–81

Normal nonuniformity of left ventricular contraction. Assessment by cine MR imaging with presaturation myocardial tagging. Naito H, et al. **Acta Radiol** 1996 Sep; 37(5):767–74

Myocardial perfusion by contrast-enhanced echocardiography and dynamic contrast-enhanced MR imaging. Lombardi M, et al. **Acta Radiol Suppl** 1997; 412:79–84 (26 ref.)

Quantitative two-dimensional echocardiography in the horse: a review. Vörös K. **Acta Vet Hung** 1997;45(2):127–36 (32 ref.)

A method to determine red blood cell spacing in capillaries of rat heart. Silverman DA, et al. **Adv Exp Med Biol** 1997; 411:135–43

Segmented K-space cine breath-hold cardiovascular MR imaging: Part 1. Principles and technique. Bluemke DA, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):395–400

Anatomy of atrioventricular nodal reentry investigated by intracardiac echocardiography. DeLurgio DB, et al.
Am J Cardiol 1997 Jul 15;80(2):231–4

Laminar structure of the heart: a mathematical model. Legrice IJ, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2466–76

Three-dimensional activation sequence of cesium-induced ventricular arrhythmias. Murakawa Y, et al.
Am J Physiol 1997 Sep;273(3 Pt 2):H1377–85

Contributions of the specialized conduction system to the activation sequence in the canine pulmonary conus. Pollard AE, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H446–63

Structural and biochemical analyses of cardiac ventricular enlargement in cold-acclimated striped bass. Rodnick KJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R252–8

Validation of different methods to compare isovolumic cardiac function in isolated hearts of varying sizes. Strömer H, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H501–10

An unusually long ligamentum arteriosum. Bhatnagar KP, et al. **Anat Anz** 1996 Oct;178(5):467–70

Stereology of the myocardium in two species of Callithrix (Callitrichidae, primates). Burity CH, et al. **Anat Anz** 1996 Oct;178(5):437–41

The anatomy of the heart revisited. Anderson RH, et al.
Anat Rec 1996 Sep;246(1):1–7

Hilum of the heart. Pauza DH, et al. **Anat Rec** 1997 Jul; 248(3):322–4 (15 ref.)

Endothelial isoform of nitric oxide synthase in rat heart increases during development. Ursell PC, et al.
Anat Rec 1996 Dec;246(4):465–72

Analysis of pig's coronary arterial blood flow with detailed anatomical data. Kassab GS, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):204–17

Intra-arterial blood pressure during exercise and left ventricular indices in normotension and borderline and mild hypertension. Majahalme S, et al. **Blood Press** 1997 Jan; 6(1):5–12

A novel method for nonfluoroscopic catheter-based electroanatomical mapping of the heart. In vitro and in vivo accuracy results. Gepstein L, et al. **Circulation** 1997 Mar 18;95(6):1611–22

Detection and quantification of dysfunctional myocardium by magnetic resonance imaging. A new three-dimensional method for quantitative wall-thickening analysis. Holman ER, et al. **Circulation** 1997 Feb 18;95(4):924–31

Towards a new terminology for clinical anatomy, with special reference to the heart. Message MA, et al.
Clin Anat 1996;9(5):317–29

Cosegregation of genes on chromosome 5 with heart weight and blood pressure in genetic hypertension. Zhang L, et al. **Clin Exp Hypertens** 1996 Nov;18(8):1073–87

Angiotensin I converting enzyme gene cosegregates with blood pressure and heart weight in F2 progeny derived from spontaneously hypertensive and normotensive Wistar-Kyoto rats. Zhang L, et al. **Clin Exp Hypertens** 1996 Aug;18(6):753–71

Changes in right ventricular volume in early human neonates. Tamura M, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):1–9

Pulsed wave Doppler echocardiography in normal horses. Blissitt KJ, et al. **Equine Vet J Suppl** 1995 Sep;(19):38–46

The development of clinical cardiology [editorial] Holmes JR. **Equine Vet J Suppl** 1995 Sep;(19):2

Effects of sedation with detomidine hydrochloride on echocardiographic measurements of cardiac dimensions and indices of cardiac function in horses. Patteson MW, et al. **Equine Vet J Suppl** 1995 Sep;(19):33–7

Echocardiographic measurements of cardiac dimensions and indices of cardiac function in normal adult thoroughbred horses. Patteson MW, et al. **Equine Vet J Suppl** 1995 Sep; (19):18–27

Echocardiographic measurements of cardiac dimensions in normal ponies and horses. Slater JD, et al.
Equine Vet J Suppl 1995 Sep;(19):28–32

The human and feline sinus node [letter; comment] Anderson RH, et al. **Eur Heart J** 1996 Nov;17(11):1758–9. Comment on: Eur Heart J 1995 Nov;16(11):1655–67.

Cardiac anatomy, function and metabolism in elite cyclists assessed by magnetic resonance imaging and spectroscopy [see comments] Pluim BM, et al. **Eur Heart J** 1996 Aug; 17(8):1271–8. Comment in: Eur Heart J 1996 Aug;17(8):1138–40.

The athlete's heart revisited [editorial; comment] Sechtem U. **Eur Heart J** 1996 Aug;17(8):1138–40. Comment on: Eur Heart J 1996 Aug;17(8):1271–8.

The effects of hyperinsulinaemia on myocardial mass, blood pressure regulation and central haemodynamics in rats. Holmäng A, et al. **Eur J Clin Invest** 1996 Nov;26(11):973–8

Angiotensin-converting enzyme and angiotensinogen gene polymorphisms, plasma levels, cardiac dimensions. A twin study. Busjahn A, et al. **Hypertension** 1997 Jan;29(1 Pt 2):165–70

Anatomical data fusion for quantitative reconstruction in

myocardial tomoscintigraphy using a spline model of the thorax organs. Coutand F, et al. **IEEE Trans Biomed Eng** 1997 Jul;44(7):575–84

Geometry of the capillary net in human hearts. Rakusan K, et al. **Int J Microcirc Clin Exp** 1997 Jan–Feb;17(1):29–32

The echocardiographic determination of volume and muscle mass of the heart. Dickhuth HH, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S132–9 (61 ref.)

Athlete's heart: a meta-analysis of the echocardiographic experience. Fagard RH. **Int J Sports Med** 1996 Nov;17 Suppl 3:S140–4

Structural and functional adaptations of the cardiovascular system by training. Huonker M, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S164–72 (74 ref.)

Determinants of morphologic cardiac adaptation in elite athletes: the role of athletic training and constitutional factors. Pelliccia A. **Int J Sports Med** 1996 Nov;17 Suppl 3:S157–63 (85 ref.)

Fourier phase mapping of the human heart. The use of spatial modulation of magnetization cine magnetic resonance imaging. Knollmann FD, et al. **Invest Radiol** 1996 Dec; 31(12):743–8

An intrinsic adrenergic system in mammalian heart. Huang MH, et al. **J Clin Invest** 1996 Sep 15;98(6):1298–1303

Echo planar MRI of the heart on a standard system: validation of measurements of left ventricular function and mass. Lamb HJ, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):942–9

Effect of artifacts due to flowing blood on the reproducibility of phase-contrast measurements of myocardial motion. Drangova M, et al. **J Magn Reson Imaging** 1997 Jul–Aug; 7(4):664–8

Effect of oxygen inhalation on relaxation times in various tissues. Tadamura E, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):220–5

Morphology of the pulmonary and aortic roots with regard to the pulmonary autograft procedure. Hokken RB, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):453–61

Intramyocardial arterial cushions of coronary vessels in animals and humans: morphology, occurrence and relation to heart disease. Whelan NL, et al. **J Vasc Res** 1996 May–Jun;33(3):209–24

Distributions of the cardiac plexuses and ganglia in the Beijing duck. Chen Y, et al. **J Vet Med Sci** 1997 May; 59(5):409–11

Visualization of the lymphatics of the heart and the mediastinal drainage pathways in the living cynomolgous (Macaca mulatta) monkey. Miller AJ, et al. **Lymphology** 1996 Dec;29(4):158–65

Left ventricular radial tagging acquisition using gradient-recalled-echo techniques: sequence optimization. Bosmans H, et al. **MAGMA** 1996 Jun;4(2):123–33

Single-shot T1- and T2-weighted magnetic resonance imaging of the heart with black blood: preliminary experience. Stehling MK, et al. **MAGMA** 1996 Sep–Dec; 4(3–4):231–40

What is the optimum phased array coil design for cardiac and torso magnetic resonance? Bottomley PA, et al. **Magn Reson Med** 1997 Apr;37(4):591–9

Cardiac magnetic resonance fluoroscopy. Debbins JP, et al. **Magn Reson Med** 1996 Oct;36(4):588–95

Myocardial suppression in vivo by spin locking with composite pulses. Dixon WT, et al. **Magn Reson Med** 1996 Jul;36(1):90–4

A method to improve the B0 homogeneity of the heart in vivo. Jaffer FA, et al. **Magn Reson Med** 1996 Sep; 36(3):375–83

Myocardial intensity changes associated with flow stimulation in blood oxygenation sensitive magnetic resonance imaging. Niemi P, et al. **Magn Reson Med** 1996 Jul;36(1):78–82

Techniques for high-speed cardiac magnetic resonance imaging in rats and rabbits. Rehwald WG, et al. **Magn Reson Med** 1997 Jan;37(1):124–30

Normal myocardial perfusion assessed with multishot echo-planar imaging. Schwitter J, et al. **Magn Reson Med** 1997 Jan;37(1):140–7

Automatic cardiac MR image segmentation using edge detection by tissue classification in pixel neighborhoods. Singleton HR, et al. **Magn Reson Med** 1997 Mar; 37(3):418–24

Fourier tracking of myocardial motion using cine-PC data. Zhu Y, et al. **Magn Reson Med** 1996 Apr;35(4):471–80

The inverse problem of electrocardiography: a solution in terms of single- and double-layer sources of the epicardial surface. Horáček BM, et al. **Math Biosci** 1997 Sep; 144(2):119–54

A Fourier based algorithm for tracking SPAMM tags in gated magnetic resonance cardiac images. Zhang S, et al. **Med Phys** 1996 Aug;23(8):1359–69

An automatic contour extraction algorithm for short-axis cardiac magnetic resonance images. Zimmer Y, et al. **Med Phys** 1996 Aug;23(8):1371–9

Structural characteristics of the superior venae cavae wall at the intrapericardium segment in adults and aging individuals. Piffer CR, et al. **Okajimas Folia Anat Jpn** 1996 Aug;73(2–3):89–100

The Olmec heart effigy: earliest image of the human heart. Bendersky G. **Perspect Biol Med** 1997 Spring;40(3):348–61

Reconstruction of two-dimensional current distribution from tangential MCG measurement. Kandori A, et al. **Phys Med Biol** 1996 Sep;41(9):1705–16

Improvement of cardiac imaging in electrical impedance tomography by means of a new electrode configuration. Vonk Noordegraaf A, et al. **Physiol Meas** 1996 Aug; 17(3):179–88

Pericardial reflection around the venous aspect of the heart. Chaffanjon P, et al. **Surg Radiol Anat** 1997;19(1):17–21 (19 ref.)

Structure conditions function and vice versa [editorial] Lunkenheimer PP. **Technol Health Care** 1997 Apr; 5(1–2):1–12 (84 ref.)

Changes in rat heart histomorphometry due to two-week dietary restriction. Burkhardt JE, et al. **Toxicol Pathol** 1996 Sep–Oct;24(5):636–8

[Berengario da Carpi: he illustrates papillary muscles, chorda tendinaeae and heart valves] Fontanini F, et al. **G Ital Cardiol** 1997 Jun;27(6):621–3 **(Ita)**

[Abnormal positions and relationships of the heart] Mori K. **Ryoikibetsu Shokogun Shirizu** 1996;(13):158–60 (6 ref.) **(Jpn)**

[Dextroposition and mesoposition of heart] Mori K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):33–5 (2 ref.) **(Jpn)**

[Small heart syndrome] Yasukochi S. **Ryoikibetsu Shokogun Shirizu** 1996;(13):142–5 (12 ref.) **(Jpn)**

[The architectonics of the lymphatic networks in the sheep heart] Chumakov VIu. **Morfologiia** 1996;110(5):73–5 (Eng. Abstr.) **(Rus)**

[Anatomico-echocardiographic studies of the fetal and neonatal heart] Kosourov AK, et al. **Morfologiia** 1996; 109(3):89–92 (38 ref.) **(Rus)**

[The morphological and age-related prerequisites for distinguishing the structural-functional myocardial units, the "myocardioangion" and the "myocardiohistion"] Mishalov VD. **Morfologiia** 1995;108(3):49–52 (Eng. Abstr.) **(Rus)**

[Elastic] Torrent-Guasp F. **Rev Esp Cardiol** 1996 Jul; 49(7):516–22 (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY see CORONARY VESSELS

CHEMISTRY see MYOCARDIUM/chemistry

CYTOLOGY see MYOCARDIUM/cytology

DRUG EFFECTS

The effect of hypertonic sodium and dantrolene on propranolol cardiotoxicity. Kerns W 2nd, et al. **Acad Emerg Med** 1997 Jun;4(6):545–51

Acute cardiotoxicity of gadolinium-based contrast media: findings in the isolated rat heart. Akre BT, et al. **Acad Radiol** 1997 Apr;4(4):283–91

Selective coronary artery perfusion in vitro: a method to study cardiac effects of contrast media. Skarstein S, et al. **Acad Radiol** 1997 Jul;4(7):483–91

Amrinone reverses bupivacaine-induced regional myocardial dysfunction. Fujita Y. **Acta Anaesthesiol Scand** 1996 Jan; 40(1):47–52

Synthetic 8-ornithine-vasopressin, a clinically used vasoconstrictor, causes cardiac effects mainly via changes in coronary flow. Graf BM, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):414–21

Is glycine a safe irrigating fluid? [letter] Hahn RG. **Acta Anaesthesiol Scand** 1997 Apr;41(4):545

Bupivacaine does not suppress cardiac sympathetic nerve activity during halothane anesthesia in the cat. Nishikawa K, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):595–601

alpha 1-adrenoceptor stimulation is able to reverse halothane-induced cardiac depression in isolated rat hearts. Okuyama T, et al. **Acta Anaesthesiol Scand** 1997 Aug; 41(7):939–44

Long-term ischaemic preconditioning of the heart induced by repeated beta-adrenergic stress. Kovanecz I, et al. **Acta Physiol Hung** 1996;84(3):297–8

Comparison of the effects of restacorin and flecainide on various cardiac transmembrane potassium currents. Németh M, et al. **Acta Physiol Hung** 1996;84(3):317–8

On the cardioprotective effect of adenosine. Szabó JZ, et al. **Acta Physiol Hung** 1996;84(3):337–8

The effect of chronic diazepam treatment on hypoxia-induced alterations in functional activity of guinea pig myocardium. Ujfalusi A, et al. **Acta Physiol Hung** 1996; 84(3):345–6

Manganese and the heart: acute cardiodepression and myocardial accumulation of manganese. Brurok H, et al. **Acta Physiol Scand** 1997 Jan;159(1):33–40

The effects of triiodothyronine (T3) on heart rate, temperature and ECG measured with telemetry in freely moving mice. Johansson C, et al. **Acta Physiol Scand** 1997 Jun;160(2):133–8

Role of L-arginine in preventing myocardial and endothelial injury following ischaemia/reperfusion in the rat isolated heart. Li XS, et al. **Acta Physiol Scand** 1996 Jan; 156(1):37–44

Restoration of cardiac contraction by angiotensin II during raised [K+]O in the rabbit. Ryan DM, et al. **Acta Physiol Scand** 1996 Apr;156(4):419–27

Inotropic effect of adrenomedullin in the isolated perfused rat heart. Szokodi I, et al. **Acta Physiol Scand** 1996 Feb; 156(2):151–2

No further improvement of ischaemic myocardial metabolism by combining preconditioning with beta-blockade: an in vivo experimental study in the pig heart using a microdialysis technique. Wikström BG, et al. **Acta Physiol Scand** 1997 Jan;159(1):23–32

Derivatives of 2-mercaptobenzenesulphonamide. XVIII. Syntheses and cardiovascular effects of some S- and S,N-substituted 4-chloro-2-mercapto-5-methyl-N-(5-amino-1,2,4-triazol-3-yl) benzenesulphonamide derivatives. Brzozowski Z, et al. **Acta Pol Pharm** 1995 May-Jun; 52(3):223–30

Synthesis of new 6,7-dichloro-3,4-dihydroisoquinoline derivatives and their actions at the adrenoreceptors. Glinka R, et al. **Acta Pol Pharm** 1995 May-Jun;52(3):241–4

Control of oxidative metabolism in volume-overloaded rat hearts: effect of pretreatment with propionyl-L-carnitine. Moravec J, et al. **Adv Exp Med Biol** 1996;388:205–12

Actions of banana tree extract on smooth and cardiac muscles and in the anesthetized rat. Singh YN, et al. **Adv Exp Med Biol** 1996;391:315–21

The effects of alcohol on the heart. Patel VB, et al. **Adverse Drug React Toxicol Rev** 1997 Mar;16(1):15–43 (155 ref.)

Beneficial vs. detrimental actions of ethanol on heart and coronary vascular muscle: roles of Mg2+ and Ca2+. Altura BM, et al. **Alcohol** 1996 Sep-Oct;13(5):499–513

Response of cardiac antioxidant system to alcohol and exercise training in the rat. Husain K, et al. **Alcohol** 1997 May-Jun;14(3):301–7

Highlights in cardiovascular effects of histamine and H1-receptor antagonists. Genovese A, et al. **Allergy** 1997; 52(34 Suppl):67–78 (175 ref.)

Reduction of myocardial infarct size in rabbits and inhibition of activation of rabbit and human neutrophils by lidocaine. Vitola JV, et al. **Am Heart J** 1997 Mar;133(3):315–22

Comparison of alcoholic cardiomyopathy in women versus men. Fernández-Solà J, et al. **Am J Cardiol** 1997 Aug 15; 80(4):481–5

Effect of simvastatin on ejection fraction in cardiac transplant recipients. Jenkins GH, et al. **Am J Cardiol** 1996 Dec 15; 78(12):1453–6

Impact of acute propranolol administration on dobutamine-induced myocardial ischemia as evaluated by myocardial perfusion imaging and echocardiography. Shehata AR, et al. **Am J Cardiol** 1997 Aug 1;80(3):268–72

Effects of methylphenidate (Ritalin) on mammalian myocardial ultrastructure. Henderson TA, et al. **Am J Cardiovasc Pathol** 1995;5(1):68–78

Inhibitory effects of 1-hydroxyethylidene-1,1-bisphosphonate and Chinese traditional (kampo) medicines on calcification of the heart and tongue in DBA/2NCrj mice. Hidaka S, et al. **Am J Chin Med** 1996;24(1):65–75

Schisandra chinensis-dependent myocardial protective action of sheng-mai-san in rats. Li PC, et al. **Am J Chin Med** 1996;24(3–4):255–62

Cardiac muscle lesions associated with chronic administration of methamphetamine in rats. He SY, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):155–62

Cardiovascular effects of i.v. granisetron at two administration rates and of ondansetron in healthy adults. Boike SC, et al. **Am J Health Syst Pharm** 1997 May 15; 54(10):1172–6

Modulation of G-protein expression by the angiotensin converting enzyme inhibitor captopril in hearts from spontaneously hypertensive rats. Relationship with adenylyl cyclase. Pandey SK, et al. **Am J Hypertens** 1996 Aug;9(8):833–7

How safe are serotonin reuptake inhibitors for depression in patients with coronary heart disease? Sheline YI, et al. **Am J Med** 1997 Jan;102(1):54–9 (74 ref.)

Central hemodynamic effects of oxytocin and interaction with magnesium and pregnancy in the isolated perfused rat heart. Coulson CC, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):91–3

Cardiotrophin-1 inhibits tumor necrosis factor production in the heart and serum of lipopolysaccharide-treated mice and in vitro in mouse blood cells. Benigni F, et al. **Am J Pathol** 1996 Dec;149(6):1847–50

Temporal effects of cytokines on neonatal cardiac myocyte Ca2+ transients and adenylate cyclase activity. Bick RJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1937–44

Myosin heavy chain turnover in cultured neonatal rat heart cells: effects of [Ca2+]i and contractile activity. Byron KL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C01447–56

Stable expression of a human HSP70 gene in a rat myogenic cell line confers protection against endotoxin. Chi SH, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1017–21

Activation of vascular thrombin receptors mediates cardiac response to alpha-thrombin in isolated, perfused guinea pig heart. Damiano BP, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1585–96

Transport and metabolism of L-glutamate during oxygenation, anoxia, and reoxygenation of rat cardiac myocytes. Dinkelborg LM, et al. **Am J Physiol** 1996 May; 270(5 Pt 2):H1825–32

Fasting, lactate, and insulin improve ischemia tolerance in rat heart: a comparison with ischemic preconditioning. Doenst T, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1607–15

Comparative cardioprotective effects of cromakalim and diltiazem in ischemic hypertrophied rat hearts. Grover GJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H174–82

Neurally mediated cardiac effects of forskolin in conscious dogs. Iwase M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1473–82

Inhibition of nitric oxide synthase augments myocardial contractile responses to beta-adrenergic stimulation. Keaney JF Jr, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2646–52

Chronic exercise enhances cardiac alpha 1-adrenergic inotropic responsiveness in rats with mild hypertension. Korzick DH, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2599–608

Transgenic manipulation of beta-adrenergic receptor kinase modifies cardiac myocyte contraction to norepinephrine. Korzick DH, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H590–6

Prostaglandin F2 alpha induces cardiac myocyte hypertrophy in vitro and cardiac growth in vivo. Lai J, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2197–208

Effects and metabolism of fumarate in the perfused rat heart. A 13C mass isotopomer study. Laplante A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E74–82

Selective chronic regulation of GLUT1 and GLUT4 content by insulin, glucose, and lipid in rat cardiac muscle in vivo. Laybutt DR, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1309–16

Lipopolysaccharide induces cell shrinkage in rabbit ventricular cardiac myocytes. Lew WY, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2989–93

Troponin I phosphorylation in spontaneously hypertensive rat heart: effect of beta-adrenergic stimulation. McConnell BK, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1440–51

Serum tumor necrosis factor-alpha does not mediate endotoxin-induced myocardial depression in rabbits. Nishikawa Y, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H485–91

Nitric oxide inhibits neutrophil adhesion to cytokine-activated cardiac myocytes. Ohashi Y, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2807–14

Cardiorespiratory and tissue oxygen dose response to rat endotoxemia. Rosser DM, et al. **Am J Physiol** 1996 Sep; 271(3 Pt 2):H891–5

LPS-induced delayed myocardial adaptation enhances acute preconditioning to optimize postischemic cardiac function. Rowland RT, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2708–15

Glibenclamide-induced blockade of ischemic preconditioning is time dependent in intact rat heart. Schultz JE, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2607–15

Impact of extracellular buffer composition on cardioprotective efficacy of Na+/H+ exchanger inhibitors. Shimada Y, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H692–700

One-day cold perfusion of bimakalim and butanedione monoxime restores ex situ cardiac function. Stowe DF, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1884–92

Perforated patch-clamp recording in cardiac myocytes using cation-selective ionophore gramicidin. Tajima Y, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C524–32

Exogenous effects and endogenous production of endothelin in cardiac myocytes: potential significance in heart failure. Thomas PB, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2629–37

The renin-angiotensin-aldosterone system in experimental mineralocorticoid-salt-induced cardiac fibrosis. Young MJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E883–8

Carnosine is a novel peptide modulator of intracellular calcium and contractility in cardiac cells. Zaloga GP, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H462–8

Stereological study of stage 34 chicken hearts with looping disturbances after retinoic acid treatment: disturbed growth of myocardium and atrioventricular cushion tissue. Bouman HG, et al. **Anat Rec** 1997 Jun;248(2):242–50

The direct effects of propofol on myocyte contractile function after hypothermic cardioplegic arrest. Hebbar L, et al. **Anesth Analg** 1996 Nov;83(5):949–57

The direct effects of diazepam and midazolam on myocardial depression in cultured rat ventricular myocytes. Nakae Y, et al. **Anesth Analg** 1997 Oct;85(4):729–33

Does phosphodiesterase III inhibition reverse the cardiodepressive effects of propofol? Pernerstorfer T, et al. **Anesth Analg** 1997 Oct;85(4):725–8

Myocardial circulatory and metabolic effects of atrial natriuretic peptide after coronary artery bypass grafting. Valsson F, et al. **Anesth Analg** 1996 Nov;83(5):928–34

Differential effects of etomidate, propofol, and midazolam on calcium and potassium channel currents in canine myocardial cells. Buljubasic N, et al. **Anesthesiology** 1996 Nov;85(5):1092–9

In vitro effects of dantrolene on rat myocardium. Fratea S, et al. **Anesthesiology** 1997 Jan;86(1):205–15

Interaction of halothane with alpha- and beta-adrenoceptor stimulations in rat myocardium. Hanouz JL, et al. **Anesthesiology** 1997 Jan;86(1):147–59

Effects of intracoronary fentanyl on left ventricular mechanoenergetics in the excised cross-circulated canine heart. Kohno K, et al. **Anesthesiology** 1997 Jun; 86(6):1350–8; discussion 7A–8A

Effects of eltanolone on myocardial performance and coronary flow in intact and catecholamine-depleted isolated rabbit hearts. Mouren S, et al. **Anesthesiology** 1996 Dec;85(6):1378–85

Effects of ropivacaine on a potassium channel (hKv1.5) cloned from human ventricle. Valenzuela C, et al. **Anesthesiology** 1997 Mar;86(3):718–28

Initial contractile response of isolated rat heart cells to halothane, enflurane, and isoflurane. Wheeler DM, et al. **Anesthesiology** 1997 Jan;86(1):137–46

Modulation of cardiac calcium channels by propofol. Zhou W, et al. **Anesthesiology** 1997 Mar;86(3):670–5

Glucagon and phenol toxicity [letter] Bey TA, et al. **Ann Emerg Med** 1997 Sep;30(3):353–4

Angiotensin-converting enzyme inhibition with enalapril increases the cardiac concentration of vasoactive intestinal peptide. Duggan KA, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:713–6

Combined doxorubicin and paclitaxel in advanced breast cancer: effective and cardiotoxic. Gehl J, et al. **Ann Oncol** 1996 Sep;7(7):687–93

Noninvasive evaluation of cardiotoxicity of 5-fluorouracil and low doses of folinic acid: a one-year follow-up study. Grandi AM, et al. **Ann Oncol** 1997 Jul;8(7):705–8

Effects of diltiazem versus digoxin on dysrhythmias and cardiac function after pneumonectomy. Amar D, et al. **Ann Thorac Surg** 1997 May;63(5):1374–81; discussion 1381–2

Use of "natural" hibernation induction triggers for myocardial protection. Bolling SF, et al. **Ann Thorac Surg** 1997 Sep; 64(3):623–7

Clinical assessment of prolonged myocardial preservation for patients with a severely dilated heart. Hachida M, et al. **Ann Thorac Surg** 1997 Jul;64(1):59–63

Zinc-bis-histidinate preserves cardiac function in a porcine model of cardioplegic arrest. Powell SR, et al. **Ann Thorac Surg** 1997 Jul;64(1):73–80

Early detection of the anthracycline-induced cardiotoxicity. A non-invasive haemodynamic study. Massidda B, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):663–8

Pathology of the heart after overhydration with glycine solution in the mouse. Hahn RG, et al. **APMIS** 1996 Dec; 104(12):915–20

Disappearance with ischaemic depolarization of the antifibrillatory activity in a sodium channel blocker and appearance in calcium channel blocker. Bui-Xuan B, et al. **Arch Int Pharmacodyn Ther** 1996 May-Jun; 331(3):246–62

Dilazep inhibits binding of batrachotoxin to sodium channels in canine sarcolemmal vesicles. Chiba K, et al. **Arch Int Pharmacodyn Ther** 1995 Sep-Oct;330(2):138–50

Beneficial effect of MET-88, a gamma-butyrobetaine hydroxylase inhibitor, on energy metabolism in ischemic dog hearts. Kirimoto T, et al. **Arch Int Pharmacodyn Ther** 1996 Mar-Apr;331(2):163–78

Alteration of the cardiac effects of midazolam by hypothermia in rat isolated atria. Melnikov AL, et al. **Arch Int Pharmacodyn Ther** 1996 May-Jun;331(3):263–72

Protective effect of nifedipine on myocardial stunning in isolated rabbit hearts: role of high energy phosphates stores. Moreyra AE, et al. **Arch Physiol Biochem** 1996; 104(3):265–71

Relationship between heart function and energy production. A study on isolated rat heart. Poizat C, et al. **Arch Physiol Biochem** 1996;104(1):71–80

Lack of cardiotoxicity of a new antineoplastic agent, a synthetic derivative of indenoisochinoline: comparison with daunorubicin in rabbits. Geršl V, et al. **Arch Toxicol** 1996; 70(10):645–51

Calcium dynamics in cardiac myocytes as a target of dichloromethane cardiotoxicity. Hoffmann P, et al. **Arch Toxicol** 1996;70(3–4):158–63

The influence of nifedipine and verapamil on the ischaemia-induced changes in canine sarcolemmal membranes. Kobusiewicz W, et al. **Arch Vet Pol** 1995; 35(1–2):79–87

Ultrastructural studies on organs of cadmium-poisoned rats treated with oxygen-ozone mixture. Kuryszko J, et al. **Arch Vet Pol** 1995;35(1–2):109–15

Cardiovascular toxicity following preincisional intra-articular injection of bupivicaine [letter] Abbott PJ Jr, et al. **Arthroscopy** 1997 Apr;13(2):282

Effect of a hawthorn extract on contraction and energy turnover of isolated rat cardiomyocytes. Pöpping S, et al. **Arzneimittelforschung** 1995 Nov;45(11):1157–61

Cardiotoxic effects of salmeterol in comparison with salbutamol on the isolated perfused Langendorff-heart of the rat. Prévost A, et al. **Arzneimittelforschung** 1997 Jan; 47(1):39–43

Granisetron shows no pro-arrhythmic effect in normal subjects during or after exercise in a hot environment. Gray GW, et al. **Aviat Space Environ Med** 1996 Aug;67(8):759–61

Mepacrine protects the isolated rat heart during hypoxia and reoxygenation—but not by inhibition of phospholipase A2. Bugge E, et al. **Basic Res Cardiol** 1997 Feb;92(1):17–24

Myocardial electrophysiological properties in the presence of an AT1 angiotensin II receptor antagonist. Cox MH, et al. **Basic Res Cardiol** 1997 Jun;92(3):129–38

Effects of deferoxamine on H2O2-induced oxidative stress in isolated rat heart. Dulchavsky SA, et al. **Basic Res Cardiol** 1996 Nov-Dec;91(6):418–24

Suppression of the degradation of adenine nucleotides during ischemia may not be a sufficient mechanism for infarct size limitation by preconditioning. Miura T, et al. **Basic Res Cardiol** 1996 Nov-Dec;91(6):425–32

The role of myocardial glycogen content for the development of isoprenaline-induced myocardial lesions in different inbred strains of rats. Mráz M, et al. **Basic Res Cardiol** 1995 Nov-Dec;90(6):467–74

Influence of phorbol esters on contractile force, action potential and calcium current of isolated guinea-pig heart tissues. Siems T, et al. **Basic Res Cardiol** 1995 Nov-Dec; 90(6):459–66

Short- and long-term effects of nisoldipine on cardiac function and exercise tolerance in patients with hypertrophic cardiomyopathy. Tokushima T, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):329–36

Re-examination for pharmacological properties of serotonin-induced tachycardia in isolated guinea-pig atrium. Nishio H, et al. **Behav Brain Res** 1996;73(1–2):301–4

Inhibition of cloned human L-type cardiac calcium channels by 2,3-butanedione monoxime does not require PKA-dependent phosphorylation sites. Eisfeld J, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):489–92

Effect of monochlorohydrins of linoleic acid on guinea-pig cardiac papillary muscles. Iwase H, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):295–8

Effects of aging and diet on the accumulation of dolichol in rat tissues. Ishinaga M. **Biochem Cell Biol** 1996; 74(2):265–70

Essential fatty acid metabolism in cardiomyocytes grown in media enriched with different N-6/N-3 fatty acid combinations. Hrelia S, et al. **Biochem Mol Biol Int** 1997 Feb;41(2):423–30

Differential cholinoceptor subtype-dependent activation of signal transduction pathways in neonatal versus adult rat atria. Borda ES, et al. **Biochem Pharmacol** 1997 Apr 4; 53(7):959–67

Effects of antihypertensive drugs on rat tissue antioxidant enzyme activities and lipid peroxidation levels. Cabell KS, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):133–41

Inhibition of calcium accumulation by the sarcoplasmic reticulum: a putative mechanism for the cardiotoxicity of adriamycin. Halili-Rutman I, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):211–4

The involvement of catecholamines, in hypertension, alcohol and ACE-inhibition. Patel VB, et al. **Biochem Soc Trans** 1996 May;24(2):262S

Effect of histidine-containing dipeptides on isolated heart under ischemia/reperfusion. Alabovsky VV, et al. **Biochemistry (Mosc)** 1997 Jan;62(1):77–87

Impaired secretion of heart lipoprotein lipase in cyclophosphamide-treated rabbit. Lespine A, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):77–85

Cardiopulmonary effects of tumor necrosis factor-alpha in the piglet: influence of cyclooxygenase inhibition. Osiovich H, et al. **Biol Neonate** 1995;68(5):342–353

Electrophysiologic effects of nitrous oxide, a volatile anesthetic, in dogs following myocardial infarction in comparison with other anesthetics. Hashimoto H, et al. **Biol Pharm Bull** 1997 Jan;20(1):82–5

Cerium stimulates protein biosynthesis in rat heart in vivo. Kumar BP, et al. **Biol Trace Elem Res** 1995 Dec; 50(3):237–42

Influence of selenium deficiency on the acute cardiotoxicity of adriamycin in rats. Matsuda A, et al. **Biol Trace Elem Res** 1997 May;57(2):157–67

Effect of dietary caffeine and zinc on the activity of antioxidant enzymes, zinc, and copper concentration of the heart and liver in fast-growing rats. Rossowska MJ, et al. **Biol Trace Elem Res** 1995 Dec;50(3):229–36

Serial changes of natural antithrombotics during myocardial ischemia-reperfusion in swine. Effects of magnesium, diltiazem, and a novel Mac-1 inhibitor. Serebruany VL, et al. **Blood Coagul Fibrinolysis** 1996 Sep;7(6):632–40

Effects of anti-peptide antibodies against human M2 muscarinic receptors on cardiac function in rats in vivo. Wang WZ, et al. **Blood Press Suppl** 1996;3:25–7

Effects of acute administration of morphine on right atrial catecholamine content and heart rate in chronically morphine-treated rats. Rabadan JV, et al. **Br J Anaesth** 1997 Apr;78(4):439–41

Comparative actions of propofol and thiopentone on cell membranes of isolated guineapig ventricular myocytes. Sakai F, et al. **Br J Anaesth** 1996 Oct;77(4):508–16

Cardiotoxicity from intensive chemotherapy combined with radiotherapy in breast cancer. de Graaf H, et al. **Br J Cancer** 1997;76(7):943–5

(−)-Timolol is a more potent antagonist of the positive inotropic effects of (−)-adrenaline than of those of (−)-noradrenaline in human atrium. Wang T, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):217–23

A comparative study of the effects of three guanylyl cyclase inhibitors on the L-type Ca2+ and muscarinic K+ currents in frog cardiac myocytes. Abi-Gerges N, et al. **Br J Pharmacol** 1997 Aug;121(7):1369–77

Calcium-antagonist effects of norbormide on isolated perfused heart and cardiac myocytes of guinea-pig: a comparison with verapamil. Bova S, et al. **Br J Pharmacol** 1997 Jan;120(1):19–24

Effects of neuropeptide Y on L-type calcium current in guinea-pig ventricular myocytes. Bryant SM, et al. **Br J Pharmacol** 1996 Jul;118(6):1455–60

Characteristics of L-type calcium channel blockade by lacidipine in guinea-pig ventricular myocytes. Cerbai E, et al. **Br J Pharmacol** 1997 Feb;120(4):667–75

Effects of beta-adrenoceptor antagonists on Ca(2+)-overload induced by lysophosphatidylcholine in

rat isolated cardiomyocytes. Chen M, et al. **Br J Pharmacol** 1996 Jun;118(4):865–70

Effects of tedisamil (KC–8857) on cardiac electrophysiology and ventricular fibrillation in the rabbit isolated heart. Chi L, et al. **Br J Pharmacol** 1996 Mar;117(6):1261–9

Cardiac and gastric effects of histamine H2 receptor antagonists: no evidence for a correlation between lipophilicity and receptor affinity. Coruzzi G, et al. **Br J Pharmacol** 1996 Aug;118(7):1813–21

Mechanism of 5–hydroxytryptamine–induced coronary vasodilation assessed by direct detection of nitric oxide production in guinea–pig isolated heart. Ellwood AJ, et al. **Br J Pharmacol** 1996 Oct;119(4):721–9

Mechanism of actions of sumatriptan on coronary flow before and after endothelial dysfunction in guinea–pig isolated heart. Ellwood AJ, et al. **Br J Pharmacol** 1997 Mar; 120(6):1039–48

Effects of moexiprilat on oestrogen–stimulated cardiac fibroblast growth. Grohé C, et al. **Br J Pharmacol** 1997 Aug;121(7):1350–4

Differences between the third cardiac beta–adrenoceptor and the colonic beta 3–adrenoceptor in the rat. Kaumann AJ, et al. **Br J Pharmacol** 1996 Aug;118(8):2085–98

Effects of an AT1 receptor antagonist, an ACE inhibitor and a calcium channel antagonist on cardiac gene expressions in hypertensive rats. Kim S, et al. **Br J Pharmacol** 1996 Jun;118(3):549–56

The mechanism of cardioprotection by S–nitrosoglutathione monoethyl ester in rat isolated heart during cardioplegic ischaemic arrest. Konorev EA, et al. **Br J Pharmacol** 1996 Oct;119(3):511–8

Noradrenaline synthesis after sympathetic nerve activation in rat atria and its dependence on calcium but not CAM kinase II and protein kinases A or C. Kotsonis P, et al. **Br J Pharmacol** 1996 Dec;119(8):1605–13

Effects of trimetazidine on pHi regulation in the rat isolated ventricular myocyte. Lagadic–Gossmann D, et al. **Br J Pharmacol** 1996 Mar;117(5):831–8

Effect of Hoe 694, a novel Na(+)–H+ exchange inhibitor, on intracellular pH regulation in the guinea–pig ventricular myocyte. Loh SH, et al. **Br J Pharmacol** 1996 Aug; 118(8):1905–12

Receptor specificity and trigemino–vascular inhibitory actions of a novel 5–HT1B/1D receptor partial agonist, 311C90 (zolmitriptan). Martin GR, et al. **Br J Pharmacol** 1997 May;121(2):157–64

Cardioprotective actions of oligotide, a single stranded polydeoxyribonucleotide complex, in myocardial ischaemia and reperfusion injury. Murohara T, et al. **Br J Pharmacol** 1996 Mar;117(6):1000–8

Down–regulation of aortic and cardiac AT1 receptor gene expression in transgenic (mRen–2) 27 rats. Nickenig G, et al. **Br J Pharmacol** 1997 May;121(1):134–40

Protective action of hydroxyethyl rutosides on singlet oxygen challenged cardiomyocytes. Olbrich HG, et al. **Br J Pharmacol** 1996 Oct;119(4):671–6

Characterization of the endothelin receptor selective agonist, BQ3020 and antagonists BQ123, FR139317, BQ788, 30235, Ro462005 and bosentan in the heart. Peter MG, et al. **Br J Pharmacol** 1996 Feb;117(3):455–462

Trophic effect of angiotensin II in neonatal rat cardiomyocytes: role of endothelin–1 and non–myocyte cells. Pönicke K, et al. **Br J Pharmacol** 1997 May; 121(1):118–24

Effect of lignocaine in myocardial contusion: an experiment on rabbit isolated heart. Pu Q, et al. **Br J Pharmacol** 1996 Jun;118(4):1072–8

G protein–independent stimulation of human myocardial phospholipase C by mastoparan. Schnabel P, et al. **Br J Pharmacol** 1997 Sep;122(1):31–6

Combined administration of 5–HT2 and thromboxane A2 antagonists: effects on platelet aggregation and isolated cardiac muscle. Shaw LA, et al. **Br J Pharmacol** 1997 Jul; 121(5):875–82

Activation of cardiac chloride conductance by the tyrosine kinase inhibitor, genistein. Shuba LM, et al. **Br J Pharmacol** 1996 Sep;119(2):335–45

Investigation of the negative inotropic effects of 17 beta–oestradiol in human isolated myocardial tissues. Sitzler G, et al. **Br J Pharmacol** 1996 Sep;119(1):43–8

Comparison of the chronic and acute effects of amiodarone on the calcium and potassium currents in rabbit isolated cardiac myocytes. Varró A, et al. **Br J Pharmacol** 1996 Mar;117(6):1181–6

Cardiac effects of quinidine on guinea–pig isolated perfused hearts after in vivo quinidine pretreatment. Yang Q, et al. **Br J Pharmacol** 1997 Sep;122(1):7–12

Effects of dopamine on L–type Ca2+ current in single atrial and ventricular myocytes of the rat. Zhao H, et al. **Br J Pharmacol** 1997 Aug;121(7):1247–54

Ontogeny of beta–adrenoceptor/adenylyl cyclase desensitization mechanisms: the role of neonatal innervation. Slotkin TA, et al. **Brain Res** 1996 Dec 2; 742(1–2):317–28

Pathophysiology and treatment of cocaine toxicity: implications for the heart and cardiovascular system. Williams RG, et al. **Can J Cardiol** 1996 Dec; 12(12):1295–301

Class III antiarrhythmic effects of ceruloplasmin on rat heart. Atanasiu R, et al. **Can J Physiol Pharmacol** 1996 Jun; 74(6):652–6

Okadaic acid enhances prepulse facilitation of cardiac alpha 1–subunit but not endogenous calcium channel currents in Xenopus laevis oocytes. Chahine M, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1149–56

Mechanical and electrophysiological effects of a hydroxyphenyl–substituted tetrahydroisoquinoline, SL–1, on isolated rat cardiac tissues. Chang GJ, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1651–60

Action of acetylcholine on regional myocardial work and metabolism in vivo: association with cyclic GMP. Guo X, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):73–9

Synergism between prostaglandin E2 and isoproterenol in stimulating glucose oxidation in the heart. Olley PM, et al. **Can J Physiol Pharmacol** 1996 May;74(5):590–7

The angiotensin II subtype 2 (AT2) receptor is linked to protein kinase C but not cAMP–dependent pathways in the cardiomyocyte. Rabkin SW. **Can J Physiol Pharmacol** 1996 Feb;74(2):125–31

Cardiorespiratory effects of a 5HT2 antagonist (R51703) in awake and anesthetized dogs. Doherty TJ, et al. **Can J Vet Res** 1996 Jul;60(3):172–8

The arrhythmogenic dose of epinephrine in halothane and isoflurane anesthetized dogs: an assessment of repeatability. Pettifer G, et al. **Can J Vet Res** 1997 Jul;61(3):221–6

Adriamycin–induced histamine release from heart tissue in vitro. Decorti G, et al. **Cancer Chemother Pharmacol** 1997; 40(4):363–6

Comparison of the protective effects against chronic doxorubicin cardiotoxicity and the rates of iron (III) displacement reactions of ICRF–187 and other bisdiketopiperazines. Herman EH, et al. **Cancer Chemother Pharmacol** 1997;40(5):400–8

Beneficial effects of felodipine on myocardial and coronary function during low–flow ischemia and reperfusion. Bernstein EA, et al. **Cardiovasc Drugs Ther** 1996 May; 10(2):167–78

Nicotine and sympathetic neurotransmission. Haass M, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):657–65 (55 ref.)

Pharmacological aspects of calcium channel blockers. Scholz H. **Cardiovasc Drugs Ther** 1997 Jan;10 Suppl 3:869–72 (25 ref.)

Differential antagonism of cardiac actions of adenosine by theophylline. Bertolet BD, et al. **Cardiovasc Res** 1996 Nov; 32(5):839–45

Different response of the rat left and right heart to norepinephrine. Irlbeck M, et al. **Cardiovasc Res** 1996 Jan; 31(1):157–62

Cellular electropharmacology of amiodarone. Kodama I, et al. **Cardiovasc Res** 1997 Jul;35(1):13–29 (188 ref.)

The cellular electrophysiological effects of tedisamil in human atrial and ventricular fibers. Németh M, et al. **Cardiovasc Res** 1996 Feb;31(2):246–8

Similarities between early and delayed afterdepolarizations induced by isoproterenol in canine ventricular myocytes. Volders PG, et al. **Cardiovasc Res** 1997 May;34(2):348–59

A 13C NMR study of 2–(13)C–chloroacetaldehyde, a metabolite of ifosfamide and cyclophosphamide, in the isolated perfused rabbit heart model. Initial observations on its cardiotoxicity and cardiac metabolism. Loqueviel C, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Jul; 43(5):773–82

Effects of isoprenaline on delayed rectifier potassium current in isolated guinea pig ventricular myocytes. Cui Y, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov;16(6):502–4

Effects of ONO–1078, a leukotriene antagonist, on cardiovascular responses induced by vagal stimulation, capsaicin, and substance P in guinea pigs. Wei EQ, et al. **Chung Kuo Yao Li Hsueh Pao** 1995 Nov;16(6):485–8

Selective activation of A3 adenosine receptors with N6–(3–iodobenzyl)adenosine–5'–N–methyluronamide protects against myocardial stunning and infarction without hemodynamic changes in conscious rabbits. Auchampach JA, et al. **Circ Res** 1997 Jun;80(6):800–9

Differential effects of the Ca2+ sensitizers caffeine and CGP 48506 on the relaxation rate of rat skinned cardiac trabeculae. Palmer S, et al. **Circ Res** 1997 May;80(5):682–7

Nonselective beta–adrenergic blockade with carvedilol does not hinder the benefits of exercise training in patients with congestive heart failure. Demopoulos L, et al. **Circulation** 1997 Apr 1;95(7):1764–7

Sex hormones prolong the QT interval and downregulate potassium channel expression in the rabbit heart. Drici MD, et al. **Circulation** 1996 Sep 15;94(6):1471–4

Diltiazem improves cardiac function and exercise capacity in patients with idiopathic dilated cardiomyopathy. Results of the Diltiazem in Dilated Cardiomyopathy Trial. Figulla HR, et al. **Circulation** 1996 Aug 1;94(3):346–52

Opposite effects of angiotensin AT1 and AT2 receptor antagonists on recovery of mechanical function after ischemia–reperfusion in isolated working rat hearts. Ford WR, et al. **Circulation** 1996 Dec 15;94(12):3087–9

Intracoronary application of C1 esterase inhibitor improves cardiac function and reduces myocardial necrosis in an experimental model of ischemia and reperfusion. Horstick G, et al. **Circulation** 1997 Feb 4;95(3):701–8

Mechanism of action potential prolongation by RP 58866 and its active enantiomer, terikalant. Block of the rapidly activating delayed rectifier K+ current, IKr. Jurkiewicz NK, et al. **Circulation** 1996 Dec 1;94(11):2938–46

Long–term angiotensin–converting enzyme inhibition with fosinopril improves depressed responsiveness to Ca2+ in myocytes from aortic–banded rats. Kagaya Y, et al. **Circulation** 1996 Dec 1;94(11):2915–22

Phorbol–12,13–dibutyrate and pinacidil cardioplegia. Novel forms of myoprotection. Kirvaitis RJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II381–8

Mechanism of the systemic, left ventricular, and coronary vascular tolerance to a binge of cocaine in conscious dogs [see comments] Shannon RP, et al. **Circulation** 1996 Aug 1;94(3):534–41. Comment in: Circulation 1997 Aug 5;96(3):1050.

Blockade of nitric oxide synthesis reduces myocardial oxygen consumption in vivo. Sherman AJ, et al. **Circulation** 1997 Mar 4;95(5):1328–34

Effects of dobutamine stimulation on myocardial blood flow, glucose metabolism, and wall motion in normal and dysfunctional myocardium [see comments] Sun KT, et al. **Circulation** 1996 Dec 15;94(12):3146–54. Comment in: Circulation 1996 Dec 15;94(12):3055–61.

Role of myocyte nitric oxide in beta–adrenergic hyporesponsiveness in heart failure. Yamamoto S, et al. **Circulation** 1997 Mar 4;95(5):1111–4

Norepinephrine induces the raf–1 kinase/mitogen–activated protein kinase cascade through both alpha 1– and beta–adrenoceptors. Yamazaki T, et al. **Circulation** 1997 Mar 4;95(5):1260–8

Tumor necrosis factor–alpha provokes a hypertrophic growth response in adult cardiac myocytes. Yokoyama T, et al. **Circulation** 1997 Mar 4;95(5):1247–52

The effects of lidocaine on cardiac parasympathetic control in normal subjects and in subjects after myocardial infarction. Abramovich–Sivan S, et al. **Clin Auton Res** 1996 Dec;6(6):313–9

Hemodynamic time course of acute and chronic isosorbide dinitrate treatment at rest and during exercise in patients with stable ischemic heart disease. Jørgensen LH, et al. **Clin Cardiol** 1996 Sep;19(9):718–24

Cardiovascular effects of oral hypoglycaemic drugs. Howes LG, et al. **Clin Exp Pharmacol Physiol** 1996 Mar; 23(3):201–6 (54 ref.)

Effects of ACE inhibition and beta–blockade on collagen remodelling in the heart of Bio 14.6 hamsters. Mansoor AM, et al. **Clin Exp Pharmacol Physiol** 1996 Jan;23(1):43–9

Mechanisms of myocardial protection by amino acids: facts and hypotheses. Pisarenko OI. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):627–33 (88 ref.)

Cardiac vagal afferent stimulation by free radicals during ischaemia and reperfusion. Schultz HD, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):700–8

On the antiarrhythmic actions of magnesium in single guinea–pig ventricular myocytes. Song Y, et al. **Clin Exp Pharmacol Physiol** 1996 Sep;23(9):830–8

Decreased sensitivity to beta–adrenergic stimulation of the ventricular cells isolated from the spontaneously hypertensive rat heart. Habuchi Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S105–6

Myocardial efficiency during calcium sensitization with levosimendan: a noninvasive study with positron emission tomography and echocardiography in healthy volunteers. Ukkonen H, et al. **Clin Pharmacol Ther** 1997 May; 61(5):596–607

Terfenadine therapy: can we justify the risks? [editorial] Rangno R. **CMAJ** 1997 Jul 1;157(1):37–8

Nitroglycerin–induced changes in myocardial sestamibi uptake to detect tissue viability: radionuclide comparison before and after revascularization. Greco C, et al. **Coron Artery Dis** 1996 Dec;7(12):877–84

Effects of OG–VI, a nucleoside/nucleotide mixture, and its constituents on myocardial stunning in dogs. Kano S, et al. **Coron Artery Dis** 1995 Oct;6(10):811–8

Does magnesium modify left ventricular remodeling after experimental myocardial infarction? Ogunyankin KO, et al. **Coron Artery Dis** 1995 Sep;6(9):709–14

Myocardial and vascular adrenergic alterations in a rat model of endotoxin shock: reversal by an anti–tumor necrosis factor–alpha monoclonal antibody. Boillot A, et al. **Crit Care Med** 1997 Mar;25(3):504–11

Effect of NG–nitro–L–arginine–methyl–ester on cardiopulmonary function and biosynthesis of cyclooxygenase products during porcine endotoxemia. Hellyer PW, et al. **Crit Care Med** 1997 Jun;25(6):1051–8

In vivo effects of cardiotrophin–1. Jin H, et al. **Cytokine** 1996 Dec;8(12):920–6

Troglitazone attenuates high–glucose–induced abnormalities in relaxation and intracellular calcium in rat ventricular myocytes. Ren J, et al. **Diabetes** 1996 Dec;45(12):1822–5

Influence of hypoglycaemic sulphonylureas on the electrophysiological parameters of the heart. Koltai MZ. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S15–20 (31 ref.)

Haemodynamic and other effects of sulphonylurea drugs on the heart. Végh A, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S43–53 (75 ref.)

Isolation and characterization of an adipokinetic hormone release–inducing factor in locusts: the crustacean cardioactive peptide. Veelaert D, et al. **Endocrinology** 1997 Jan;138(1):138–42

Present and future role of calcium antagonists in cardiac protection and treatment of coronary artery disease. Nice, France, 14–16 March 1996. Proceedings. **Eur Heart J** 1997 Jan;18 Suppl A:A1–138

Pharmacological differences between calcium antagonists. Opie LH. **Eur Heart J** 1997 Jan;18 Suppl A:A71–9 (53 ref.)

Cardioprotection of rat heart myocytes with amifostine (Ethyol) and its free thiol, WR–1065, in vitro. Dorr RT,

et al. **Eur J Cancer** 1996;32A Suppl 4:S21-5

Effect of milrinone and atrial pacing on stunned myocardium. Schad H, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1125-32

Are there stereoselective electrophysiologic effects of intravenously administered (S)- or (R)-propafenone hydrochloride in patients with supraventricular tachycardia? Candinas R, et al. **Eur J Clin Pharmacol** 1996; 50(3):185-90

The differentiation of propafenone from other class Ic agents, focusing on the effect on ventricular response rate attributable to its beta-blocking action. Faber TS, et al. **Eur J Clin Pharmacol** 1996;51(3-4):199-208 (103 ref.)

The acute effects of intravenously administered mibefradil, a new calcium antagonist, on the electrophysiologic characteristics of the human heart. Rosenquist M, et al. **Eur J Clin Pharmacol** 1997;52(1):7-12

Modulation of cardiac intermediate filament proteins in the chick heart by fibric acid derivatives. Aranega AE, et al. **Eur J Morphol** 1995 Nov;33(5):421-31

Growth promoting and metabolic activity of the human insulin analogue [GlyA21,ArgB31,ArgB32]insulin (HOE 901) in muscle cells. Bähr M, et al. **Eur J Pharmacol** 1997 Feb 12;320(2-3):259-65

Rapid increase in inducible nitric oxide synthase gene expression in the heart during endotoxemia. Bateson AN, et al. **Eur J Pharmacol** 1996 May 6;303(1-2):141-4

Cardiac electrophysiological effects of propafenone and its 5-hydroxylated metabolite in the conscious dog. Boucher M, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):171-7

Cardiac electrophysiological effects of falipamil in the conscious dog: comparison with alinidine. Boucher M, et al. **Eur J Pharmacol** 1996 Jun 13;306(1-3):93-8

Dual effect of glyburide, an antagonist of KATP channels, on metabolic inhibition-induced Ca2+ loading in cardiomyocytes. Brady PA, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):343-9

A comparison between the effects of BMS-180448, a novel K+ channel opener, and cromakalim in rat and dog. D'Alonzo AJ, et al. **Eur J Pharmacol** 1995 Dec 27; 294(1):271-80

Effect of chronic moderate ethanol consumption on heart brain natriuretic peptide. Guillaume P, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):49-58

Dual effects of extracellular ATP on the muscarinic acetylcholine receptor-operated K+ current in guinea-pig atrial cells. Hara Y, et al. **Eur J Pharmacol** 1997 Apr 18; 324(2-3):295-303

Extracellular K+ and protection against cellular damage in the rat heart. Harding RJ, et al. **Eur J Pharmacol** 1996 Dec 5;316(2-3):223-8

Increases in inotropic state without change in heart rate: combined use of dobutamine and zatebradine in conscious dogs. Hettrick DA, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2-3):237-44

Cytosolic Ca2+ domain-dependent protective action of adenosine in cardiomyocytes. Jovanovic A, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):63-9

Protective effects of free polyunsaturated fatty acids on arrhythmias induced by lysophosphatidylcholine or palmitoylcarnitine in neonatal rat cardiac myocytes. Kang JX, et al. **Eur J Pharmacol** 1996 Feb 15;297(1-2):97-106

Rectal response of cardiac origin in the cat: involvement of nitric oxide and acetylcholine. Koley J, et al. **Eur J Pharmacol** 1997 May 1;325(2-3):181-7

Effects of a novel, potent benzothiazepine Ca2+ channel antagonist, DTZ323, on guinea-pig ventricular myocytes. Kurokawa J, et al. **Eur J Pharmacol** 1997 May 1; 325(2-3):229-36

Pharmacological characterization of cardiovascular responses induced by endothelin-1 in the perfused rat heart. Kusumoto K, et al. **Eur J Pharmacol** 1996 Jan 18; 296(1):65-74

PK 11195 antagonizes the positive inotropic response of the isolated rat heart to diazepam but not the negative inotropic response. Leeuwin RS, et al. **Eur J Pharmacol** 1996 Mar 28;299(1-3):149-52

Effects of angiotensin II and angiotensin-converting enzyme inhibitors on human myocardium. Lenz O, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):17-27

Effects of dantrolene sodium on intracellular Ca2(+)-handling in normal and Ca2(+)-overloaded cardiac muscle. Meissner A, et al. **Eur J Pharmacol** 1996 Dec 5;316(2-3):333-42

Mechanisms of positive inotropic action of flosequinan, hydralazine, and milrinone on mammalian myocardium. Miao L, et al. **Eur J Pharmacol** 1997 Feb 26;321(2):201-8

Interaction of propranolol with S100 proteins of the cardiac muscle. Nakatani K, et al. **Eur J Pharmacol** 1996 Nov 21; 315(3):335-8

Cytokines and nitric oxide synthase inhibitor as mediators of adrenergic refractoriness in cardiac myocytes. Oddis CV, et al. **Eur J Pharmacol** 1997 Feb 12;320(2-3):167-74

The effects of EMD 57033 on rigor tension in porcine skinned cardiac trabecula. Palmer S, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):83-90

The cardiac electrophysiological effects of sparteine and its analogue BRB-I-28 in the rat. Pugsley MK, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):319-27

Dose-response studies with idrapril in the rat heart during acute myocardial ischaemia and reperfusion. Riva E, et al. **Eur J Pharmacol** 1996 Oct 3;312(3):293-300

Trypsin alters ATP sensitivity of KATP channels in control and hypertrophied myocytes. Sodder VH, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):115-8

Effects of ATP on specific [3H](+)-isradipine binding in rat ventricular cardiomyocytes. Stokke M, et al. **Eur J Pharmacol** 1996 May 6;303(1-2):115-22

Depression of the inotropic action of isoprenaline by nitric oxide synthase induction in rat isolated hearts. Sun X, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):29-35

Blockade of cardiac Na+ channels by a charged class I antiarrhythmic agent, bisaramil: possible interaction of the drug with a pre-open closed state. Sunami A, et al. **Eur J Pharmacol** 1996 Sep 26;312(2):245-55

Inhibition of nitric oxide synthase causes cardiac phenotypic modulation in rat. Takaori K, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):59-62

Actions of CP-060S on veratridine-induced Ca2+ overload in cardiomyocytes and mechanical activities in vascular strips. Tamura K, et al. **Eur J Pharmacol** 1996 Sep 26; 312(2):195-202

Inhibition by xipamide of amiloride-induced acidification in cultured rat cardiocytes. Taouil K, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):289-94

Stretch-induced increase in atrial natriuretic peptide secretion is blocked by thapsigargin. Taskinen P, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):295-300

Tetrandrine inhibits electrically induced [Ca2+]i transient in the isolated single rat cardiomyocyte. Wang HX, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):115-22

High carbachol increases the electrically induced [Ca2+]i transient in the single isolated ventricular myocyte of rats. Wang HX, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):91-9

Inhibitory effects of berberine on ATP-sensitive K+ channels in cardiac myocytes. Wang YX, et al. **Eur J Pharmacol** 1996 Dec 5;316(2-3):307-15

Cardiac effects of isoliquiritigenin. Wegener JW, et al. **Eur J Pharmacol** 1997 May 12;326(1):37-44

Preischemic bolus application of piroximone studied on the isolated rabbit heart--a second look including biochemical data. Podesser B, et al. **Eur Surg Res** 1996;28(5):388-94

The mode of action of several opioids on cardiac muscle. Wu C, et al. **Exp Physiol** 1997 Mar;82(2):261-72

Cardiac ultrastructural effects of the platelet-activating factor and its antagonist BN 52021. Kecskeméti V, et al. **Exp Toxicol Pathol** 1995 Dec;47(6):463-70

Sex dependent electrocardiogram (ECG) changes in anthracycline-treated mice. Nachbar A, et al. **Exp Toxicol Pathol** 1997 Feb;49(1-2):75-7

Myocardium-protective effects of Ginkgo biloba extract (EGb 761) in old rats against acute isobaric hypoxia. An electron microscopic morphometric study. II. Protection of microvascular endothelium. Welt K, et al. **Exp Toxicol Pathol** 1996 Jan;48(1):81-6

The endogenous cardiac sarcoplasmic reticulum Ca2+/calmodulin-dependent kinase is activated in response to beta-adrenergic stimulation and becomes Ca2+-independent in intact beating hearts. Baltas LG, et al. **FEBS Lett** 1997 Jun 9;409(2):131-6

Changes of hydroxyproline levels in myocardium after chronic administration of bleomycin. Anasiewicz A, et al. **Folia Morphol (Warsz)** 1996;55(4):206-7

Protective effect of the nitroxide tempol against the cardiotoxicity of adriamycin. Monti E, et al. **Free Radic Biol Med** 1996;21(4):463-70

Effects of a novel low-molecular weight antioxidant on cardiac injury induced by hydrogen peroxide. Nagy A, et al. **Free Radic Biol Med** 1996;20(4):567-72

The myocardial lesions produced by the potassium channel opener aprikalim in monkeys and rats are prevented by blockade of cardiac beta-adrenoceptors. Belin V, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):259-67

Acute, subchronic, and developmental toxicity and genotoxicity of 1,1,1-trifluoroethane (HFC-143a). Brock WJ, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):200-9

Effects of soman (pinacolyl methylphosphonofluoridate) on coronary blood flow and cardiac function in swine. McKenzie JE, et al. **Fundam Appl Toxicol** 1996 Jan; 29(1):140-6

Cardiovascular effects of fumonisins in swine. Smith GW, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):169-72

Effect of MET-88, a gamma-butyrobetaine hydroxylase inhibitor, on myocardial derangements induced by hydrogen peroxide in the isolated perfused rat heart. Akahira M, et al. **Fundam Clin Pharmacol** 1997;11(4):356-64

Compared effects of ruthenium red and cis [Ru(NH3)4Cl2]Cl on the isolated ischaemic-reperfused rat heart. Leperre A, et al. **Fundam Clin Pharmacol** 1995;9(6):545-53

Effect of Azadirachta indica hydroalcoholic leaf extract on the cardiovascular system. Chattopadhyay RR. **Gen Pharmacol** 1997 Mar;28(3):449-51

Mipafox differential inhibition assay for heart muscle cholinesterases: substrate specificity and inhibition of three isoenzymes by physostigmine and quinidine. Chemnitius JM, et al. **Gen Pharmacol** 1997 Apr;28(4):567-75

Effects of enalapril in rats with pressure overload cardiac hypertrophy. Di Paola Eugenio D, et al. **Gen Pharmacol** 1997 Apr;28(4):531-3

Effects of potassium channel blockers on the action potentials and contractility of the rat right ventricle. Doggrell SA, et al. **Gen Pharmacol** 1996 Mar;27(2):379-85

Effects of mu-, delta- and kappa-opioid antagonists in atrial preparations from nonfailing and failing human hearts. Llobel F, et al. **Gen Pharmacol** 1997 Mar;28(3):371-4

Alteration of the cardiac effects of isoproterenol and propranolol by hypothermia in isolated rat atrium. Melnikov AL, et al. **Gen Pharmacol** 1996 Jun;27(4):665-8

Blockade of cardiac nicotinic responses by anticholinesterases. Paddle BM, et al. **Gen Pharmacol** 1996 Jul;27(5):861-72

Effect of gliclazide on the functional response to calcium in diabetic rat heart. Shinzato T, et al. **Gen Pharmacol** 1996 Apr;27(3):471-5

Myocardial and vascular effects of efonidipine in vitro as compared with nifedipine, verapamil and diltiazem. Tanaka H, et al. **Gen Pharmacol** 1996 Apr;27(3):451-4

Inhibitory effects of terfenadine on the rising phase of action potentials and sinus rates in isolated guinea-pig myocardium. Tanaka H, et al. **Gen Pharmacol** 1996 Mar; 27(2):337-40

The effects of amrinone and glucagon on verapamil-induced myocardial depression in a rat isolated heart model. Tuncok Y, et al. **Gen Pharmacol** 1997 May;28(5):773-6

Cholecystokinin (CCK) and C-terminal fragments of CCK: effects of CCK-33, CCK-8 and CCK-4 in the cardiovascular system of diabetic rats. Wiśniewska RJ, et al. **Gen Pharmacol** 1996 Mar;27(2):399-405

The membrane effect of benfluron: modulation of the heart sarcolemmal (Na+, K+)-ATPase and Mg(2+)-ATPase activities. Džurba A, et al. **Gen Physiol Biophys** 1996 Feb; 15(1):71-5

Cardiac manifestations of acute carbamate and organophosphate poisoning. Saadeh AM, et al. **Heart** 1997 May;77(5):461-4

The protective effect of D-sotalol against hypoxia-induced myocardial uncoupling. Manoach M, et al. **Heart Vessels** 1996;11(6):281-8

Effects of pinacidil, verapamil, and heart rate on afterdepolarizations in the guinea-pig heart in vivo. Xu J, et al. **Heart Vessels** 1996;11(6):289-302

Effect of N-feruloyl tyramine (an analogue of tyramine) on inwardly rectifying potassium channel in frog ventricular myocytes. Munemori M, et al. **Hiroshima J Med Sci** 1996 Mar;45(1):31-5

Improvement of myocardial function and metabolism in diabetic rats by the carnitine palmitoyl transferase inhibitor Etomoxir. Schmitz FJ, et al. **Horm Metab Res** 1995 Dec; 27(12):515-22

Experimental studies on multiorgan toxicity of cyclosporine-A in rats using a radiopharmaceutical and comparison with histopathological findings. Shihab-Eldeen A, et al. **Hum Exp Toxicol** 1996 Nov;15(11):867-71

Effects of angiotensin AT1 receptor antagonist on volume overload-induced cardiac gene expression in rats. Kim S, et al. **Hypertens Res** 1997 Jun;20(2):133-42

Cardiac and vascular effects of long-term losartan treatment in stroke-prone spontaneously hypertensive rats. Gohlke P, et al. **Hypertension** 1996 Sep;28(3):397-402

Intracellular Ca2+ modulation by angiotensin II and endothelin-1 in cardiomyocytes and fibroblasts from hypertrophied hearts of spontaneously hypertensive rats. Touyz RM, et al. **Hypertension** 1996 Nov;28(5):797-805

Modulation of kinin outflow from isolated perfused rat hearts by endothelin-1. Zeitlin IJ, et al. **Immunopharmacology** 1996 Jun;33(1-3):294-6

Cardiotoxicity of combined administration of adriamycin and recombinant human granulocyte colony-stimulating factor (rhG-CSF) in rats-with special reference to 125I-MIBG cardioautoradiography and histopathological findings. Niitsu N, et al. **In Vivo** 1995 Sep-Oct;9(5):455-62

Effects of long-term thyroid hormone suppressive treatment on the cardiac functions. Khanna CM, et al. **Indian Heart J** 1997 May-Jun;49(3):289-92

A lethal cardiotoxic protein isolated from Bidder's organ of common Indian toad, Bufo melanostictus Schneider. Gomes A, et al. **Indian J Exp Biol** 1996 Mar;34(3):211-5

Interaction between histamine and nitric oxide in rat mast cells and in isolated guinea pig hearts. Mannaioni PF, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):297-9

Eosinophil granule proteins are selective activators of human heart mast cells. Patella V, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):200-2

Effects of exposure to carbon disulfide (CS2) on electrocardiographic features of ischemic heart disease among viscose rayon factory workers. Kuo HW, et al. **Int Arch Occup Environ Health** 1997;70(1):61-6

Direct cardiotoxic effects of cocaine and cocaethylene on isolated cardiomyocytes. Bai H, et al. **Int J Cardiol** 1996 Jan;53(1):15-23

Prostaglandin E1 (PGE1) reduces cardiac-derived TXA2 release in ischaemic arrest in isolated working rat heart. Feng J, et al. **Int J Cardiol** 1996 Aug;55(3):265-70

Opposing actions of cholinergic agonist and trinitroglycerin on net vascular resistance in perfused rat heart. Lockwood TD. **Int J Cardiol** 1996 Nov 15;57(1):9-19

Signal-averaged ECG in patients with antidepressant therapy. Mladosievicova B, et al. **Int J Cardiol** 1996 Apr 19;54(1):27-31

Behavioral characteristics of two rat strains differing in sensitivity to the cardiotoxic effect of isoprenaline. Starec M, et al. **Int J Neurosci** 1996 Nov;87(3-4):241-8

Alteration of cardiovascular function in trained rats fed with fish oil. Lortet S, et al. **Int J Sports Med** 1995 Nov; 16(8):519-21

Acute cardiovascular effects of intravenous cyclosporine.

Navarro JF, et al. **Int Urol Nephrol** 1996;28(4):575–81

Buflomedil poisoning: five cases with cardiotoxicity. Legras A, et al. **Intensive Care Med** 1996 Jan;22(1):57–61

Hydroxocobalamin vs cobalt toxicity on rat cardiac and diaphragmatic muscles. Pery-Man N, et al. **Intensive Care Med** 1996 Feb;22(2):108–15

Effects of MnDPDP, DPDP—, and MnCl2 on cardiac energy metabolism and manganese accumulation. An experimental study in the isolated perfused rat heart. Brurok H, et al. **Invest Radiol** 1997 Apr;32(4):205–11

Cardiomyocytes in culture—a model to study the cellular actions of amiodarone. Kessler-Icekson G, et al. **Isr J Med Sci** 1996 Dec;32(12):1212–6

Infarct size limitation by a new Na(+)-H+ exchange inhibitor, Hoe 642: difference from preconditioning in the role of protein kinase C. Miura T, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):693–701

Angiotensin-converting enzyme inhibitors potentiate preconditioning through bradykinin B2 receptor activation in human heart. Morris SD, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1599–606

Can a class III antiarrhythmic drug improve electrical defibrillation efficacy during ventricular fibrillation? Murakawa Y, et al. **J Am Coll Cardiol** 1997 Mar 1; 29(3):688–92

Hemodynamic and cardiac effects of the selective T-type and L-type calcium channel blocking agent mibefradil in patients with varying degrees of left ventricular systolic dysfunction. Rousseau MF, et al. **J Am Coll Cardiol** 1996 Oct;28(4):972–9

Pharmacologic myocardial protection during percutaneous transluminal coronary angioplasty by intracoronary application of dipyridamole: impact on hemodynamic function and left ventricular performance. Strauer BE, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1119–26

Torsade de pointes with an antihistamine metabolite: potassium channel blockade with desmethylastemizole. Vorperian VR, et al. **J Am Coll Cardiol** 1996 Nov 15; 28(6):1556–61

Decreased Ca2+ sensitivity of isometric tension in skinned cardiac myocytes from tail-suspended rats. Dunlap AW, et al. **J Appl Physiol** 1996 May;80(5):1612–7

Chemical stimulation of cardiac receptors attenuates locomotion in mesencephalic cats. Pickar JG. **J Appl Physiol** 1997 Jul;83(1):113–9

Comparison of the effects of endotoxin on limb, respiratory, and cardiac muscles. Supinski G, et al. **J Appl Physiol** 1996 Sep;81(3):1370–8

Organophosphate compound poisoning and cardiac toxicity [letter] Gohel DR, et al. **J Assoc Physicians India** 1996 Apr;44(4):287

Can neurons in the nucleus ambiguus selectively regulate cardiac rate and atrio-ventricular conduction? Gatti PJ, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):123–7

The effects of bromoacetylalprenololmenthane on the responses to isoprenaline of the left ventricle from normo-, prehyper- and hypertensive rats. Doggrell SA, et al. **J Auton Pharmacol** 1997 Jun;17(3):183–90

Calcitonin gene-related peptide (CGRP)-evoked inotropism during hyper- and hypo-sensory-motor innervation in rat atria. Rubino A, et al. **J Auton Pharmacol** 1997 Apr; 17(2):121–7

Ricin disturbs calcium homeostasis in the rabbit heart. Ma L, et al. **J Biochem Toxicol** 1995 Dec;10(6):323–8

Insulin-like growth factor-I rapidly activates multiple signal transduction pathways in cultured rat cardiac myocytes. Foncea R, et al. **J Biol Chem** 1997 Aug 1;272(31):19115–24

A novel cardiac-restricted target for doxorubicin. CARP, a nuclear modulator of gene expression in cardiac progenitor cells and cardiomyocytes. Jeyaseelan R, et al. **J Biol Chem** 1997 Sep 5;272(36):22800–8

A protein kinase C translocation inhibitor as an isozyme-selective antagonist of cardiac function. Johnson JA, et al. **J Biol Chem** 1996 Oct 4;271(40):24962–6

Cardiotrophin 1 (CT-1) inhibition of cardiac myocyte apoptosis via a mitogen-activated protein kinase-dependent pathway. Divergence from downstream CT-1 signals for myocardial cell hypertrophy. Sheng Z, et al. **J Biol Chem** 1997 Feb 28;272(9):5783–91

Atrial natriuretic peptide induces apoptosis in neonatal rat cardiac myocytes. Wu CF, et al. **J Biol Chem** 1997 Jun 6;272(23):14860–6

Prolonged use of propranolol safely decreases cardiac work in burned children. Baron PW, et al. **J Burn Care Rehabil** 1997 May-Jun;18(3):223–7

Electrophysiologic and morphologic abnormalities in the failing heart: effect of enalapril on the electrical properties. De Mello WC, et al. **J Card Fail** 1997 Mar;3(1):53–61

Effects of milrinone and sulmazole on left ventricular mechanoenergetics in canine hearts. Hata K, et al. **J Card Fail** 1996 Sep;2(3):203–13

Cardiopulmonary effects of enoximone or dobutamine and nitroglycerin on mitral valve regurgitation and pulmonary venous hypertension. Hachenberg T, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):453–7

Myocardial effect of propofol infusions in humans: more questions than answers [letter; comment] Vuylsteke A, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):264. Comment on: J Cardiothorac Vasc Anesth 1995 Aug;9(4):368–72. Comment on: J Cardiothorac Vasc Anesth 1996 Jun;10(4):568.

Lidocaine and nisoldipine attenuate almokalant-induced dispersion of repolarization and early afterdepolarizations in vitro. Abrahamsson C, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1074–81

Effects of 2,3-butanedione monoxime on atrial-atrioventricular nodal conduction in isolated rabbit heart. Cheng Y, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):790–802

Comparison of the rate-dependent properties of the class III antiarrhythmic agents azimilide (NE-10064) and E-4031: considerations on the mechanism of reverse rate-dependent action potential prolongation. Groh WJ, et al. **J Cardiovasc Electrophysiol** 1997 May;8(5):529–36

Early afterdepolarizations produced by d,l-sotalol and clofilium. Patterson E, et al. **J Cardiovasc Electrophysiol** 1997 Jun;8(6):667–78

Mechanisms for depolarization by l-palmitoylcarnitine in single guinea pig ventricular myocytes. Shen JB, et al. **J Cardiovasc Electrophysiol** 1997 Feb;8(2):172–83

Rate-dependent effects of sematilide on ventricular monophasic action potential duration and delayed rectifier K+ current in rabbits. Beatch GN, et al. **J Cardiovasc Pharmacol** 1996 Nov;28(5):618–30

Carvedilol protects against lethal reperfusion injury through antiadrenergic mechanisms. Brunvand H, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):409–17

Endothelin-receptor antagonist FR 139317 reduces infarct size in a rabbit model when given before, but not after, coronary artery occlusion. Burke SE, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):87–92

Antiischemic and antiarrhythmic activities of some novel alinidine analogs in the rat heart. Challinor-Rogers JL, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):499–507

Electrophysiological mechanisms for the antiarrhythmic action of (-)-caryachine in rat heart. Chen L, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):740–8

Suppression of inducible ventricular arrhythmias by intravenous azimilide in dogs with previous myocardial infarction. Drexler AP, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):848–55

Effects of angiotensin-converting enzyme inhibition on angiotensin and bradykinin peptides in rats with myocardial infarction. Duncan AM, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):746–54

Electrophysiological and inotropic characterization of a novel class III antiarrhythmic agent, GLG-V-13, in the mammalian heart. Fazekas T, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):182–91

Effect of colchicine on circulating and myocardial neutrophils and on infarct size in a canine model of ischemia and reperfusion. Forrat R, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):876–83

Quinidine pharmacodynamics in normal and isoproterenol-induced hypertrophied blood-perfused working rabbit hearts. Gillis AM, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):916–26

Differential class III antiarrhythmic effects of ambasilide and dofetilide at different extracellular potassium and pacing frequencies. Gjini V, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):314–20

Effects of thapsigargin and cyclopiazonic acid on intracellular calcium activity in newborn rat cardiomyocytes during their development in primary culture. Gomez JP, et al. **J Cardiovasc Pharmacol** 1996 Mar; 27(3):335–46

Differential effects of arginine vasopressin on isolated guinea pig heart function during perfusion at constant flow and constant pressure. Graf BM, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):1–7

Glyburide-reversible cardioprotective effects of BMS-180448: functional and energetic considerations. Grover GJ, et al. **J Cardiovasc Pharmacol** 1997 Jan; 29(1):28–38

Effects of calcium sensitizers on intracellular calcium handling and myocardial energetics. Hasenfuss G, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S45–51

Combined effects of caffeine and nicotine on cardiovascular hemodynamics in canine model. Jain AC, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):574–9

Myocardial metabolism during graded intraportal verapamil infusion in awake dogs. Kline JA, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):719–26

Effects of S20787 on pHi-regulating mechanisms in isolated rat ventricular myocytes. Lagadic-Gossmann D, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):547–52

Vasomolol: an ultra short-acting and vasorelaxant vanilloid type beta 1-adrenoceptor antagonist. Lin YT, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):149–57

Pharmacological studies on a new antihypertensive agent, S-2150, a benzothiazepine derivative: 1. Antinecrotic and antiarrhythmic effects in reperfused rat hearts. Masui M, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):526–32

Attenuation of myocardial stunning in isolated rat hearts by a 21-aminosteroid lazaroid (U74389G). Moreyra AE, et al. **J Cardiovasc Pharmacol** 1996 Nov;28(5):659–64

Beta-adrenoceptor stimulation-mediated preconditioning-like cardioprotection in perfused rat hearts. Nasa Y, et al. **J Cardiovasc Pharmacol** 1997 Apr; 29(4):436–43

Mechanism of action of human calcitonin gene-related peptide in rabbit heart and in human mammary arteries. Raddino R, et al. **J Cardiovasc Pharmacol** 1997 Apr; 29(4):463–70

Comparison of proarrhythmogenic effects of two potassium channel openers, levcromakalim (BRL 38227) and nicorandil (RP 46417): a high-resolution mapping study on rabbit heart. Robert E, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):109–18

In swine myocardium, the infarct size reduction induced by U-89232 is glibenclamide sensitive: evidence that U-89232 is a cardioselective opener of ATP-sensitive potassium channels. Rohmann S, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):69–74

Activation of protein kinase C by angiotensin II decreases beta 1-adrenergic receptor responsiveness in the rat heart. Schwartz DD, et al. **J Cardiovasc Pharmacol** 1997 Feb; 29(2):257–64

Barium-induced diastolic depolarization and controlling mechanisms in guinea pig ventricular muscle. Shen JB, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):385–96

Angiotensin II-induced phosphoinositide production and atrial natriuretic peptide release in rat atrial tissue. Soualmia H, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):605–11

Reversal of endothelin-induced vasoconstriction by endothelium-dependent and -independent vasodilators in isolated hearts and vascular rings. Stowe DF, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):747–54

alpha 1-Adrenoceptor stimulation partially inhibits ATP-sensitive K+ current in guinea pig ventricular cells: attenuation of the action potential shortening induced by hypoxia and K+ channel openers. Takizawa T, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):799–808

Concanavalin A, ribose, and adenine resuscitate preserved rat hearts. Tan ZT, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):26–32

Effect of methylisobutyl amiloride on [Na+]i, reperfusion arrhythmias, and function in ischemic rat hearts. Tani M, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):794–801

Classification of positive inotropic actions based on electrophysiologic characteristics: where should calcium sensitizers be placed? Varro A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S32–44 (97 ref.)

Effect of trimetazidine on postischemic regional myocardial stunning in the halothane-anesthetized dog. Vedrinne C, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):500–6

Ionic mechanism responsible for prolongation of cardiac action-potential duration by berberine. Wang YX, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):214–22

Use of losartan to examine the role of the cardiac renin-angiotensin system in myocardial dysfunction during ischemia and reperfusion. Werrmann JG, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):177–82

Electrical and mechanical effects of a novel antihypertensive quinazoline derivative, 3-[[4-(2-methoxyphenyl) piperazin-1-yl]methyl]-5-(methylthio)-2,3-dihydroimidazo [1,2-c]quinazoline, on guinea pig ventricular muscles. Yang JM, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):229–34

Effects of vascular endothelial growth factor on hemodynamics and cardiac performance. Yang R, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):838–44

Impaired cardiac reserve and exercise capacity in patients receiving long-term thyrotropin suppressive therapy with levothyroxine. Biondi B, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4224–8

Triiodothyronine induces over-expression of alpha-smooth muscle actin, restricts myofibrillar expansion and is permissive for the action of basic fibroblast growth factor and insulin-like growth factor I in adult rat cardiomyocytes. Gosteli-Peter MA, et al. **J Clin Invest** 1996 Oct 15;98(8):1737–44

The protective role of manganese superoxide dismutase against adriamycin-induced acute cardiac toxicity in transgenic mice. Yen HC, et al. **J Clin Invest** 1996 Sep 1;98(5):1253–60

Anthracycline dose in childhood acute lymphoblastic leukemia: issues of early survival versus late cardiotoxicity. Sorensen K, et al. **J Clin Oncol** 1997 Jan;15(1):61–8

Lorazepam reduces cardiac vagal modulation in normal subjects. Vogel LR, et al. **J Clin Psychopharmacol** 1996 Dec;16(6):449–53

Effects of vitamin E on the blastogenic response of splenocytes and lipofuscin contents in the hearts and brains of aged mice. Ma XY, et al. **J Environ Pathol Toxicol Oncol** 1996;15(1):51–3

Effect of Maharishi AK-4 on H2O2-induced oxidative stress in isolated rat hearts. Cullen WJ, et al. **J Ethnopharmacol** 1997 May;56(3):215–22

Vitamin E administration attenuates the tri-iodothyronine-induced modification of heart electrical activity in the rat. Venditti P, et al. **J Exp Biol** 1997 Mar; 200 (Pt 5):909–14

Dopaminergic responses in the Fischer 344 rat heart: preserved chronotropic and dromotropic responses with aging. Schwartz JB. **J Gerontol A Biol Sci Med Sci** 1997 Jan;52(1):M36–43

Effects of combination therapy on the heart. Messerli FH, et al. **J Hum Hypertens** 1997 Jan;11(1):29–33 (39 ref.)

ACE inhibitor ramipril is more effective than the beta-blocker atenolol in reducing left ventricular mass in hypertension. Results of the RACE (ramipril cardioprotective evaluation) study on behalf of the RACE study group. Agabiti-Rosei E, et al. **J Hypertens** 1995 Nov; 13(11):1325–34

Reduction in external K causes increased action potential

shortening in ventricular myocytes from the spontaneously hypertensive rat. Evans SJ, et al. **J Hypertens** 1997 Jun; 15(6):659–66

Inhibition of nitric oxide in rats. Regulation of cardiovascular structure and expression of insulin–like growth factor I and its receptor messenger RNA. Wickman A, et al. **J Hypertens** 1997 Jul;15(7):751–9

Isolated left ventricular filling abnormalities may predict interleukin–2–induced cardiovascular toxicity. Citterio G, et al. **J Immunother Emphasis Tumor Immunol** 1996 Mar; 19(2):134–41

Recombinant Interferons beta and gamma have a higher antiviral activity than interferon–alpha in coxsackievirus B3–infected carrier state cultures of human myocardial fibroblasts. Heim A, et al. **J Interferon Cytokine Res** 1996 Apr;16(4):283–7

Role of iron in the potentiation of anthracycline cardiotoxicity: identification of heart cell mitochondria as a major site of iron–anthracycline interaction. Link G, et al. **J Lab Clin Med** 1996 Mar;127(3):272–8

Cardioselective antiischemic ATP–sensitive potassium channel (KATP) openers. 5. Identification of 4–(N–aryl)–substituted benzopyran derivatives with high selectivity. Rovnyak GC, et al. **J Med Chem** 1997 Jan 3; 40(1):24–34

Modification of the conductance and gating properties of ryanodine receptors by suramin. Sitsapesan R, et al. **J Membr Biol** 1996 Sep;153(2):93–103

Acute and chronic effects of adriamycin on fatty acid oxidation in isolated cardiac myocytes. Abdel–aleem S, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):789–97

Anthracyclines enhance tension development in cardiac muscle by direct interaction with the contractile system. Bottone AE, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):1001–8

Bradykinin protects against infarction but does not mediate ischemic preconditioning in the isolated rat heart. Bugge E, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2333–41

Regulation of expression of the [3H]–dofetilide binding site associated with the delayed rectifier K+ channel by dexamethasone in neonatal mouse ventricle. Duff HJ, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1959–65

Wound healing following myocardial infarction in the rat: role for bradykinin and prostaglandins. Frimm C de C, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1279–85

Comparison of the structural changes induced by doxorubicin and mitoxantrone in the heart, kidney and intestine and characterization of the Fe(III)–mitoxantrone complex. Herman EH, et al. **J Mol Cell Cardiol** 1997 Sep; 29(9):2415–30

Regionally different vascular response to vasoactive substances in the remodelled infarcted rat heart; aberrant vasculature in the infarct scar. Kalkman EA, et al. **J Mol Cell Cardiol** 1997 May;29(5):1487–97

Endotoxin–induced cardiac depression is associated with decreased cardiac dihydropyridine receptors in rabbits. Lew WY, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1367–71

Cardioprotective and anti–oxidant effects of the terpenoid constituents of Ginkgo biloba extract (EGb 761). Pietri S, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):733–42

Concentration–response relationships for adenosine agonists during preconditioning of rabbit cardiomyocytes. Rice PJ, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1355–65

Aspirin does not prevent the attenuation of myocardial stunning by the ACE inhibitor ramiprilat. Rose J, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):603–13

No attenuation of ischaemic preconditioning by the calcium antagonist nisoldipine. Wallbridge DR, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1801–10

Pretreatment with endothelin–1 mimics ischemic preconditioning against infarction in isolated rabbit heart. Wang P, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):579–88

Enalaprilat, an angiotensin–converting enzyme inhibitor, enhances functional preservation during long–term cardiac preservation. Possible involvement of bradykinin and PKC. Yang X, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1445–52

Proliferation of myocardial peroxisomes caused by several agents and conditions. Zipper J. **J Mol Cell Cardiol** 1997 Jan;29(1):149–61

Accumulation of Alzheimer amyloid–beta peptide in cultured myocytes is enhanced by serum and reduced by cerebrospinal fluid. Mazur–Kolecka B, et al. **J Neuropathol Exp Neurol** 1997 Mar;56(3):263–72

Is growth hormone good for the heart? Silverman BL, et al. **J Pediatr** 1997 Jul;131(1 Pt 2):S70–4 (23 ref.)

Potassium intake and cardiovascular reactivity in children with risk factors for essential hypertension. Sorof JM, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):87–94

Antihypertensive drugs reduce noradrenaline–induced hypertrophy of cultured myocardial cells. Lähteenmäki TA, et al. **J Pharm Pharmacol** 1996 Mar;48(3):323–6

Effect of the hydroalcoholic extract of rauwolfia ligustrina on smooth and cardiac muscles in–vitro. Medeiros CL, et al. **J Pharm Pharmacol** 1996 Nov;48(11):1210–4

A comparative pharmacokinetic–pharmacodynamic study of the electrocardiographic effects of epinastine and terfenadine in rats. Ohtani H, et al. **J Pharm Pharmacol** 1997 Apr;49(4):458–62

Pharmacokinetic–toxicodynamic relationships of adriamycin in rat: prediction of butylated hydroxyanisole–mediated reduction in anthracycline cardiotoxicity. Vora J, et al. **J Pharm Pharmacol** 1996 Dec;48(12):1264–9

Electrophysiologic effects of nibentan (HE–11) on canine cardiac tissue. Anyukhovsky EP, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1137–46

Acute effects of nitric oxide and cyclic GMP on human myocardial contractility. Flesch M, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1340–9

Effect of timing of treatment of the glyburide–reversible cardioprotective activity of BMS–180448. Gomoll AW, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):24–33

LU 51198, a highly sulfated, low–molecular–weight heparin derivative, prevents complement–mediated myocardial injury in the perfused rabbit heart. Gralinski MR, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):554–60

Pharmacokinetics and pharmacodynamics of the enantiomers of gallopamil. Gross AS, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1102–12

Dilazep and its derivative, K–7259, attenuate mechanical derangement induced by palmitoyl–L–carnitine in the isolated, perfused rat heart. Hara A, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):32–8

Class III electrophysiologic actions of imidazole–substituted diheterabicyclononanes in canine myocardium. Patterson E, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):155–62

Effects of chronic morphine treatment on catecholamines content and mechanical response in the rat hearts. Rabadán JV, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):32–7

Comparison between alpha–1 adrenoceptor–mediated and beta adrenoceptor–mediated inotropic components elicited by norepinephrine in failing human ventricular muscle. Skomedal T, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):721–9

Inhibitory effect of amiodarone on the muscarinic acetylcholine receptor–operated potassium current in guinea pig atrial cells. Watanabe Y, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):617–24

Characterization of nifedipine block of the human heart delayed rectifier, hKv1.5. Zhang X, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1247–56

Increased cardiac workload by adrenoceptor agonists for the estimation of potential antiischemic activity in a conscious rabbit model. Kovanecz I, et al. **J Pharmacol Toxicol Methods** 1997 Apr;37(3):149–59

Open channel and competitive block of the embryonic form of the nicotinic receptor of mouse myotubes by (+)–tubocurarine. Bufler J, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):83–95

The effects of beta–stimulation on the Na(+)–K+ pump current–voltage relationship in guinea–pig ventricular myocytes. Gao J, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):697–708

Effect on the indo–1 transient of applying Ca2+ channel blocker for a single beat in voltage–clamped guinea–pig cardiac myocytes. Levi AJ, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):653–73

Binding constants determined from Ca2+ current responses to rapid applications and washouts of nifedipine in frog cardiac myocytes. Méry PF, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):105–20

Halothane and isoflurane preferentially depress a slowly inactivating component of Ca2+ channel current in guinea–pig myocytes. Pancrazio JJ. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):91–103

Mechanism of inhibition of delayed rectifier K+ current by 4–aminopyridine in rabbit coronary myocytes. Remillard CV, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):383–400

Ionic mechanism of the effects of hydrogen peroxide in rat ventricular myocytes. Ward CA, et al. **J Physiol (Lond)** 1997 May 1;500 (Pt 3):631–42

Propranolol–like action of amiodarone. An electronmicroscopic study in rats under cold stress. Lopes AC, et al. **J Submicrosc Cytol Pathol** 1997 Apr;29(2):253–6

Calcium–induced inotropy is in part mediated by protein kinase C. Meldrum DR, et al. **J Surg Res** 1996 Jul 1; 63(2):400–5

Administration of ATP–MgCl2 after trauma–hemorrhage and resuscitation restores the depressed cardiac performance. Robinson DA, et al. **J Surg Res** 1997 Apr; 69(1):159–65

Invited editorial on "effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest" [editorial; comment] Buckberg GD. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1661–3. Comment on: J Thorac Cardiovasc Surg 1996 Dec;112(6):1651–60.

Intravenous co–infusion of adenosine and norepinephrine preconditions the heart without adverse hemodynamic effects [see comments] Cohen MV, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):236–42. Comment in: J Thorac Cardiovasc Surg 1997 Aug;114(2):234–5.

Intravenous co–infusion of adenosine and norepinephrine [editorial; comment] Kloner RA, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):234–5. Comment on: J Thorac Cardiovasc Surg 1997 Aug;114(2):236–42.

Myocardial protection in the acutely injured heart: hyperpolarizing versus depolarizing hypothermic cardioplegia. Lawton JS, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):567–75

Effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest [see comments] Reed MK, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1651–60. Comment in: J Thorac Cardiovasc Surg 1996 Dec;112(6):1661–3.

Metabolic and hemodynamic effects of intravenous glutamate infusion early after coronary operations. Svedjeholm R, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1468–77

Effect of preoperative supplementation with alpha–tocopherol and ascorbic acid on myocardial injury in patients undergoing cardiac operations. Westhuyzen J, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):942–8

Evaluation of cardiac function by echocardiography in dogs treated with doxorubicin. Hanai K, et al. **J Toxicol Sci** 1996 Feb;21(1):1–10

Influence of alkaline ionized water on rat erythrocyte hexokinase activity and myocardium. Watanabe T, et al. **J Toxicol Sci** 1997 May;22(2):141–52

Cardiopulmonary effects of combined nitric oxide inhibition and inhaled nitric oxide in porcine endotoxic shock. Offner PJ, et al. **J Trauma** 1996 Oct;41(4):641–6

Pentoxifylline maintains hepatocellular function and improves cardiac performance during early sepsis. Wang P, et al. **J Trauma** 1997 Mar;42(3):429–35; discussion 435–6

Beneficial effect of steroid on myocardial preservation in isolated rat hearts. Hisatomi K, et al. **Jpn Circ J** 1995 Dec; 59(12):815–23

A new approach to the development of anti–ischemic drugs. Substances that counteract the deleterious effect of lysophosphatidylcholine on the heart. Hashizume H, et al. **Jpn Heart J** 1997 Jan;38(1):11–25

Acute and chronic effects of amiodarone on mammalian ventricular cells. Kodama I, et al. **Jpn Heart J** 1996 Sep; 37(5):719–30 (25 ref.)

The heart sodium channel phenotype for inactivation and lidocaine block. Makielski JC. **Jpn Heart J** 1996 Sep; 37(5):733–9

Cardioprotective effect of K–7259, a novel dilazep derivative, against ischemia–reperfusion damage in isolated, working rat hearts. Hoque AN, et al. **Jpn J Pharmacol** 1997 Apr; 73(4):365–9

Effects of aprindine on ischemia/reperfusion–induced cardiac contractile dysfunction of perfused rat heart. Kamiyama T, et al. **Jpn J Pharmacol** 1996 Mar;70(3):227–34

Effect of terfenadine and KW–4679, a novel antiallergic compound, on action potential of guinea pig ventricular myocytes. Kato Y, et al. **Jpn J Pharmacol** 1996 Feb; 70(2):199–202

Novel blockade of Ca2+ current by quinacrine in smooth muscle cells of the guinea pig. Nagano N, et al. **Jpn J Pharmacol** 1996 May;71(1):51–60

Kinetic mechanism of Na+ channel depression by taurine in guinea pig ventricular myocytes. Sada H, et al. **Jpn J Pharmacol** 1996 Jun;71(2):147–59

Effects of phenylephrine on intracellular Na+ and H+ activities in guinea–pig cardiac ventricular papillary muscles. Yang JM, et al. **Jpn J Physiol** 1996 Apr; 46(2):137–44

Effects of acetate on energy metabolism and function in the isolated perfused rat heart. Jacob AD, et al. **Kidney Int** 1997 Sep;52(3):755–60

Effects of isoflurane versus halothane on myocardial contractility in rabbits: assessment with transthoracic two–dimensional echocardiography. Marano G, et al. **Lab Anim** 1997 Apr;31(2):144–50

Electrocardiographic changes after intravenous administration of magnesium in rabbits. Nonaka M, et al. **Lab Anim Sci** 1996 Aug;46(4):434–7

Cardiopulmonary and analgesic effects of xylazine, detomidine, medetomidine, and the antagonist atipamezole in isoflurane–anesthetized swine. Tendillo FJ, et al. **Lab Anim Sci** 1996 Apr;46(2):215–9

Response of the neonatal rat cardiomyocyte in culture to energy depletion: effects of cytokines, nitric oxide, and heat shock proteins. Wang D, et al. **Lab Invest** 1996 Dec; 75(6):809–18

Lysophosphatidylcholine induces Ca2+–independent cellular injury attenuated by d–propranolol in rat cardiomyocytes. Chen M, et al. **Life Sci** 1997; 60(3):PL57–62

A new antithrombotic agent, aspalatone, attenuated cardiotoxicity induced by doxorubicin in the mouse; possible involvement of antioxidant mechanism. Kim C, et al. **Life Sci** 1997;60(4–5):PL75–82

Muscarinic regulation of the L–type calcium current in isolated cardiac myocytes. Méry PF, et al. **Life Sci** 1997; 60(13–14):1113–20 (111 ref.)

Cisplatinum enhancement of myocardial Mg2+ transport. Murphy L, et al. **Life Sci** 1996;59(20):1739–44

The effects of lidocaine and hypoxia on phospholipid biosynthesis in the isolated hamster heart. Wong JT, et al. **Lipids** 1996 Oct;31(10):1059–67

Differences in dose scheduling as a factor in the etiology of anthracycline–induced cardiotoxicity in Ewing sarcoma patients. Kakadekar AP, et al. **Med Pediatr Oncol** 1997 Jan;28(1):22–6

Stobadine pretreatment enhances glutathione peroxidase activity in the heart of irradiated mice. Kováciková Z, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):241–3

Role of eicosanoid inhibition of ischemia reperfusion injury: intact and isolated rat heart studies. Shekher A, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):223–9

Role of bradykinin in the antihypertrophic effects of enalapril in the newborn pig heart. Beinlich CJ, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:77–83

Effect of chronic colchicine administration on the

myocardium of the aging spontaneously hypertensive rat. Cicogna AC, et al. **Mol Cell Biochem** 1997 Jan; 166(1-2):45-54

Effect of TaiCatoxin (TCX) on the electrophysiological, mechanical and biochemical characteristics of spontaneously beating ventricular cardiomyocytes. Fantini E, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:61-6

Influence of vanadate on glycolysis, intracellular sodium, and pH in perfused rat hearts. Geraldes CF, et al. **Mol Cell Biochem** 1997 May;170(1-2):53-63

Differences in response to activation of adenylyl cyclase by various stimulants in human myocardium. Hynie S, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:329-33

Early after-depolarisations induced by noradrenaline may be initiated by calcium released from sarcoplasmic reticulum. Janiak R, et al. **Mol Cell Biochem** 1996 Oct-Nov; 163-164:125-30

Effect of angiotensin II on myocardial collagen gene expression. Ju H, et al. **Mol Cell Biochem** 1996 Oct-Nov; 163-164:231-7

Chronic low-dose treatment with enalapril induced cardiac regression of left ventricular hypertrophy. Makino N, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:239-45

In vitro influence of ascorbate on lipid peroxidation in rat testis and heart microsomes. Melin AM, et al. **Mol Cell Biochem** 1997 Apr;169(1-2):171-6

Heart glycogen content and isoprenaline-induced myocardial lesions. Mráz M, et al. **Mol Cell Biochem** 1996 Oct-Nov; 163-164:145-9

Protective role of curcumin against isoproterenol induced myocardial infarction in rats. Nirmala C, et al. **Mol Cell Biochem** 1996 Jun 21;159(2):85-93

Alterations in inotropy, nitric oxide and cyclic GMP synthesis, protein phosphorylation and ADP-ribosylation in the endotoxin-treated rat myocardium and cardiomyocytes. Sulakhe PV, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:305-18

The effects of anaplerotic substrates on D-3-hydroxybutyrate metabolism in the heart. Sultan AM. **Mol Cell Biochem** 1997 Jun;171(1-2):59-64

The role of nitric oxide in the cardiac effects of hydrogen peroxide. Valen G, et al. **Mol Cell Biochem** 1996 Jun 7; 159(1):7-14

Functional antagonism by a monoclonal antibody to digoxin in a test system of cultured rat heart myocytes. Wallukat G, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:117-20

Prevention by 7-oxo-prostacyclin of the calcium paradox in rat heart: role of the sarcolemmal (Na,K)-ATPase. Ziegelhöffer A, et al. **Mol Cell Biochem** 1996 Jul-Aug; 160-161:257-63

Methylene blue is a muscarinic antagonist in cardiac myocytes. Abi-Gerges N, et al. **Mol Pharmacol** 1997 Sep; 52(3):482-90

Cyclic AMP-independent inhibition of cardiac calcium current by forskolin. Asai T, et al. **Mol Pharmacol** 1996 Nov;50(5):1262-72

1,5-benzothiazepine binding domain is located on the extracellular side of the cardiac L-type Ca2+ channel. Kurokawa J, et al. **Mol Pharmacol** 1997 Feb;51(2):262-8

Persistent activation by and receptor reserve for an irreversible A1-adenosine receptor agonist in DDT1 MF-2 cells and in guinea pig heart. Zhang J, et al. **Mol Pharmacol** 1997 Sep;52(3):491-8

Acute cardiovascular effects of salmeterol in subjects with stable bronchial asthma. Bagnato GF, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):275-8

Inflammatory myopathy after intravenous streptokinase. Di Muzio A, et al. **Muscle Nerve** 1997 May;20(5):619-21

Effect of an unknown toxin isolated from Dinophysis sp.-contaminated French mussels, on the electrical and mechanical activity of frog heart. Sauviat MP, et al. **Nat Toxins** 1996;4(2):80-4

Pharmacological properties of cardiovascular histamine H1 receptor binding sites: characterisation with 2-phenylhistamines. Carman-Krzan M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):431-7

Cardiac electrophysiological actions of NS-21 and its active metabolite, RCC-36, compared with terodiline. Hayashi S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 May; 355(5):651-8

Comparative electrophysiological effects of the antidepressants fluvoxamine and amitriptyline in the canine heart after myocardial infarction. Ikeda Y, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):30-7

Electrophysiological properties of the propafenone-analogue GE 68 (1-[3-(phenylethyl)-2-benzofuryl]-2-(propylamino)-ethanol) in isolated preparations and ventricular myocytes of guinea-pig hearts. Lemmens-Gruber R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):230-8

Kinetics and state-dependent effects of verapamil on cardiac L-type calcium channels. Nawrath H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):79-86

Ouabain improves cardiac function in vivo in rats with heart failure after chronic but not acute treatment. Nelissen-Vrancken HJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Aug; 356(2):203-9

Electrophysiological effects of EGIS-7229, a new antiarrhythmic agent, in isolated mammalian and human cardiac tissues. Pankucsi C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):398-405

Blockade of human and porcine myocardial 5-HT4 receptors by SB 203186. Parker SG, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):28-35

Chronic beta 1-adrenoceptor blockade sensitises the H1 and H2 receptor systems in human atrium: rôle of cyclic nucleotides. Sanders L, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):661-70

Influence of adrenoceptor and muscarinic receptor blockade on the cardiovascular effects of exogenous noradrenaline and of endogenous noradrenaline released by infused tyramine. Schäfers RF, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):239-49

Action of tertiary phenylalkylamines on cardiac transient outward current from outside the cell membrane. Wegener JW, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec;354(6):746-54

Mechanisms of the contractile effects of 2,3-butanedione-monoxime in the mammalian heart. Zimmermann N, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):431-6

Protective effects of cardioxane against anthracycline-induced cardiotoxicity in relapsed acute myeloid leukemias. Lemež P, et al. **Neoplasma** 1996; 43(6):417-9

Blood pressure independent effects of nitrendipine on cardiac structure in patients after renal transplantation. Rockstroh JK, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1441-7

Cardiac microdialysis of salicylic acid to detect hydroxyl radical generation associated with sympathetic nerve stimulation. Obata T, et al. **Neurosci Lett** 1996 Jun 28; 211(3):216-8

In vivo characterization of Gd(BME-DTTA), a myocardial MRI contrast agent: tissue distribution of its MRI intensity enhancement, and its effect on heart function. Chu WJ, et al. **NMR Biomed** 1997 Apr;10(2):87-92

Quantitative autoradiographic measurement of cocaine-induced regional myocardial metabolic changes in hypertensive rats. Wang GJ, et al. **Nucl Med Biol** 1994 Feb;21(2):245-50

Protective effect of lidocaine on cell damage in the perfused rat heart. Harding RJ, et al. **Pathobiology** 1996;64(4):209-16

Dobutamine stress echocardiography in the evaluation of late anthracycline cardiotoxicity in childhood cancer survivors. De Wolf D, et al. **Pediatr Res** 1996 Mar;39(3):504-12

Maternal infusion of antioxidants (Trolox and ascorbic acid) protects the fetal heart in rabbit fetal hypoxia. Tan S, et al. **Pediatr Res** 1996 Mar;39(3):499-503

Indicators of delayed maturation of rat heart treated prenatally with dexamethasone. Torres A, et al. **Pediatr Res** 1997 Aug;42(2):139-44

Tyrosine protein kinase inhibitors prevent activation of cardiac swelling-induced chloride current. Sorota S. **Pflugers Arch** 1995 Dec;431(2):178-85

Reversible inhibition of gap junctional communication by tamoxifen in cultured cardiac myocytes. Verrecchia F, et al. **Pflugers Arch** 1997 May;434(1):113-6

Disruption of actin cytoskeleton attenuates sulfonylurea inhibition of cardiac ATP-sensitive K+ channels. Yokoshiki H, et al. **Pflugers Arch** 1997 Jun;434(2):203-5

Flecainide alters the cardiac microscopic activation pattern. An in-vitro study using voltage sensitive dyes. Dhein S, et al. **Pharmacol Res** 1996 Sep-Oct;34(3-4):125-30

Indomethacin antagonises the effects of adenosine receptor agonists on the contractility and effective refractory period of guinea pig papillary muscle. Kocić I. **Pharmacol Res** 1996 Sep-Oct;34(3-4):143-7

Concentration-response relationship of alpha 1-adrenoceptor-stimulated increase of 86Rb+ efflux in rat heart. Andersen GO, et al. **Pharmacol Toxicol** 1996 Oct; 79(4):169-76

Effects of eicosapentaenoic acid and docosahexaenoic acid diet supplement on tolerance to the cardiotoxicity of epirubicin and to ischaemia reperfusion in the isolated rat heart. Schjøtt J, et al. **Pharmacol Toxicol** 1996 Aug; 79(2):65-72

Alpha(1)- and beta-adrenoceptor-mediated increase in 86Rb(+)-uptake in isolated cardiomyocytes from adult rat heart: evidence for interaction between the two receptor systems. Viko H, et al. **Pharmacol Toxicol** 1996 Dec; 79(6):287-92

Hypotensive and vasorelaxing activities of a lectin from the edible mushroom Tricholoma mongolicum. Wang HX, et al. **Pharmacol Toxicol** 1996 Dec;79(6):318-23

Hemodynamic and cardiac effects of BMS-180448, a novel K+ATP opener, in anesthetized dogs and isolated rat hearts. D'Alonzo AJ, et al. **Pharmacology** 1996 Feb; 52(2):101-12

Arrhythmogenic action of endothelin peptides in isolated perfused whole hearts from guinea pigs and rats. Ercan ZS, et al. **Pharmacology** 1996 Oct;53(4):234-40

Pharmacological characteristics of BDTI, a new isoquinoline-derived beta 2-adrenoceptor agonist, in canine trachea and rat heart. Lin CH, et al. **Pharmacology** 1996 Jul;53(1):19-27

Effects of aldosterone and spironolactone on the isolated perfused rat heart. Moreau D, et al. **Pharmacology** 1996 Jul;53(1):28-36

Effects of cyclosporin and cremophor on working rat heart and incidence of myocardial lipid peroxidation. Tatou E, et al. **Pharmacology** 1996 Jan;52(1):1-7

Long-term NO synthase inhibition affects heart weight and geometry of coronary and carotid arteries. Kristek F, et al. **Physiol Res** 1996;45(5):361-7

Pretreatment with tetramethylpyrazine increases the release of PGI2 and decreases TXA2 release in isolated rat heart [letter] Feng J, et al. **Planta Med** 1996 Aug;62(4):379-81

Procyanidines from Vitis vinifera seeds protect rabbit heart from ischemia/reperfusion injury: antioxidant intervention and/or iron and copper sequestering ability. Maffei Facinó R, et al. **Planta Med** 1996 Dec;62(6):495-502

Myocardial protective effect of honokiol: an active component in Magnolia officinalis. Tsai SK, et al. **Planta Med** 1996 Dec;62(6):503-6

Cardiopharmacological profile of HOE 234, the new activator of ATP-sensitive K+ channels in the guinea pig heart. Kocić I, et al. **Pol J Pharmacol** 1995 Sep-Oct; 47(5):457-60

The effects of alcohol on the heart: detrimental or beneficial? Figueredo VM. **Postgrad Med** 1997 Feb;101(2):165-8, 171-2, 175-6 (24 ref.)

Studies on the carcinogenic and myocardial effects of 2-amino-3-methylimidazo [4,5-f] quinoline (IQ) in nonhuman primates. Adamson RH, et al. **Princess Takamatsu Symp** 1995;23:260-7

Regulation of sodium channel gene expression by class I antiarrhythmic drugs and n - 3 polyunsaturated fatty acids in cultured neonatal rat cardiac myocytes. Kang JX, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2724-8

Nongenomic effect of triiodothyronine on cell surface beta-adrenoceptors in cultured embryonic cardiac myocytes. Vassy R, et al. **Proc Soc Exp Biol Med** 1997 Apr;214(4):352-8

Beneficial effects of iloprost cardioplegia in ischemic arrest in isolated working rat heart. Feng J, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Apr; 54(4):279-83

Alpha 1-adrenoceptor mediated activation of Na/K/2Cl cotransport and K+ channels in the rat heart involves different receptor subtypes. Andersen GO, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jun;96(3):329-40

Transgenic mice overexpressing metallothionein are not resistant to adriamycin cardiotoxicity. DiSilvestro RA, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug; 93(2):163-70

Role of L-type calcium channels on halothane-induced myocardial depression in cultured rat ventricular myocytes. Kanaya N, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan;91(1):85-96

Role of vagal lung C-fibres in the cardiorespiratory effects of capsaicin in monkeys. Ravi K, et al. **Respir Physiol** 1996 Nov;106(2):137-51

Cardiac effects of methylmethacrylate in the rat heart-lung preparation with or without volatile anesthetics. Kashimoto S, et al. **Resuscitation** 1995 Dec;30(3):269-73

Influence of alkaline buffers on cytoplasmic pH in myocardial cells exposed to hypoxia. Li YC, et al. **Resuscitation** 1997 Feb;34(1):71-7

Cardiac sensitization thresholds of halon replacement chemicals predicted in humans by physiologically-based pharmacokinetic modeling. Vinegar A, et al. **Risk Anal** 1996 Aug;16(4):571-9

Haemodynamic and metabolic effects of gallopamil as additive to calcium-containing and calcium-free cardioplegic solutions in mature pig hearts. Randsbaek F, et al. **Scand Cardiovasc J** 1997;31(2):83-9

Perfusing isolated rat hearts with hydrogen peroxide: an experimental model of cardiac dysfunction caused by reactive oxygen species. Skjelbakken T, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):431-9

Resuscitation with lactated Ringer's solution after hemorrhage: lack of cardiac toxicity. Delman K, et al. **Shock** 1996 Apr;5(4):298-303

Effects of hypertonic saline on regional function and blood flow in canine hearts during acute coronary occlusion. Kien ND, et al. **Shock** 1997 Apr;7(4):274-81

The effect of methylprednisolone on myocardial beta-adrenergic receptors and cardiovascular function in shock patients. Saito T, et al. **Shock** 1996 Apr;5(4):241-6

Mineralocorticoids, salt, hypertension: effects on the heart. Young MJ, et al. **Steroids** 1996 Apr;61(4):233-5 (16 ref.)

Impaired cardiac function during postnatal hypoxia in rats exposed to nicotine prenatally: implications for perinatal morbidity and mortality, and for sudden infant death syndrome. Slotkin TA, et al. **Teratology** 1997 Mar; 55(3):177-84

Does concurrent or prior nicotine exposure interact with neonatal hypoxia to produce cardiac cell damage? Tolson CM, et al. **Teratology** 1995 Nov;52(5):298-305

Cardiac systolic and diastolic function at rest and exercise in subclinical hypothyroidism: effect of thyroid hormone therapy. Arem R, et al. **Thyroid** 1996 Oct;6(5):397-402

Tissue-specific bioenergetic effects and increased enzymatic activities following acute sublethal peroral exposure to cyanide in the mallard duck. Ma J, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):297-302

Effects of nonsedating antihistamine, astemizole, on the in situ canine heart assessed by cardiohemodynamic and monophasic action potential monitoring. Sugiyama A, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):89–95

The role of intracellular calcium in antimony-induced toxicity in cultured cardiac myocytes. Wey HE, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):202–10

Histopathological evaluation of liver, pancreas, spleen, and heart from iron-overloaded Sprague-Dawley rats. Whittaker P, et al. **Toxicol Pathol** 1996 Sep–Oct; 24(5):558–63

Study of the effects of theophylline-related changes in total, free, short- chain acyl and long-chain acyl carnitine concentrations in rat heart. Alhomida AS. **Toxicology** 1997 Sep 5;121(3):205–13

Antimony-induced alterations in thiol homeostasis and adenine nucleotide status in cultured cardiac myocytes. Tirmenstein MA, et al. **Toxicology** 1997 May 16; 119(3):203–11

Doxorubicin- and daunorubicin-induced energy deprivation and nucleotide degradation in isolated cardiomyocytes. Vidal RF, et al. **Toxicology** 1996 Nov 15;114(1):1–10

Cardiac and vascular responses of isolated rat tissues treated with diterpenes from Sinularia flexibilis (coelenterata: octocorallia). Aceret TL, et al. **Toxicon** 1996 Oct; 34(10):1165–71

Effect of Leiurus quinquestriatus hebreus venom on calcium and deoxyglucose uptake in cultured cardiac cells. Arie-Saadia G, et al. **Toxicon** 1996 Apr;34(4):435–42

Effects of the venom of the theridiid spider, Steatoda capensis Hann, on autonomic transmission in rat isolated atria and caudal artery. Korszniak NV, et al. **Toxicon** 1994 Jan; 32(1):85–96

Activities of cobra venom cytotoxins toward heart and leukemic T-cells depend on localized amino acid differences. Stevens-Truss R, et al. **Toxicon** 1997 May; 35(5):659–69

Comparison of University of Wisconsin and University of Pittsburgh solutions for heart transplantation. Hossain MA, et al. **Transpl Int** 1996;9(4):380–5

The effect and pharmacokinetics of nafamostat mesilate adjunct to cold nondepolarizing cardioplegia in a canine model of cardiac preservation. Sunamori M, et al. **Transpl Int** 1996;9(4):364–9

The effects of omega-3 polyunsaturated (correction of polyunsatulated) fatty acids on the recovery of cardiac function following cold preservation and reperfusion in hyperlipidemic rats. Ku K, et al. **Transplantation** 1996 Sep 27;62(6):735–42

Four beta-adrenoceptor subtypes in the mammalian heart. Kaumann AJ. **Trends Pharmacol Sci** 1997 Mar;18(3):70–6 (61 ref.)

Adenosine in the mammalian heart: nothing to get excited about. Pelleg A, et al. **Trends Pharmacol Sci** 1997 Jul; 18(7):236–8 (23 ref.)

Cardiopulmonary effects of combinations of medetomidine hydrochloride and atropine sulphate in dogs. Alibhai HI, et al. **Vet Rec** 1996 Jan 6;138(1):11–3

In vivo responses of macrophages and myofibroblasts in the healing following isoproterenol-induced myocardial injury in rats. Nakatsuji S, et al. **Virchows Arch** 1997 Jan; 430(1):63–9

[Cardiotoxicity of 5-fluorouracil] Pan L, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Feb;31(2):86–9 (Eng. Abstr.) **(Chi)**

[Effect of neurotoxins on the electrical activity and contraction of the heart muscle] Sauviat MP. **C R Seances Soc Biol Fil** 1997;191(3):451–71 (122 ref.) (Eng. Abstr.) **(Fre)**

[A problem of physiology. Cardiac toxicity of cocaine] Damas J. **Rev Med Liege** 1996 Sep;51(9):599–604 (34 ref.) **(Fre)**

[Interaction of nimodipine and propofol in dogs. Hemodynamics and cardiodynamics] Rolf N, et al. **Anaesthesist** 1997 May;46(5):398–402 (Eng. Abstr.) **(Ger)**

[Effects of anesthesia with inhalation anesthetics on excitation, conduction and refractory parameters of the heart. Experiments in dogs] Hahn N, et al. **Arzneimittelforschung** 1996 Mar;46(3):251–6 (Eng. Abstr.) **(Ger)**

[The modification of the effects of calcium on the heart using beta-adrenergic blockers] Hapke HJ, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 May;103(5):170–4 (Eng. Abstr.) **(Ger)**

[Myocardial protection during extracorporeal circulation. Preliminary results with different techniques] Spaggiari I, et al. **Acta Biomed Ateneo Parmense** 1995;66(5):203–7 (Eng. Abstr.) **(Ita)**

[Cardiac performance during insulin clamp: its evaluation by bioimpedance measurement] Ferraro S, et al. **Cardiologia** 1997 Feb;42(2):189–94 (Eng. Abstr.) **(Ita)**

[[Antihypertensive therapy and organ protection] Stella ML, et al. **Cardiologia** 1996 May;41 Suppl 1:19–23 (28 ref.) **(Ita)**

[Atenolol: its cardiorespiratory effects at birth in a premature infant] Zanardo V, et al. **Pediatr Med Chir** 1997 May–Jun; 19(3):149–51 (8 ref.) **(Ita)**

[Echocardiographic evaluation of cardiotoxicity induced by anthracycline therapy] Okada Y, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):585–9 (Eng. Abstr.) **(Jpn)**

[Cytoprotective effect of trehalose in cryopreservation of isolated cardiac myocytes] Marumoto T, et al. **Nippon Geka Gakkai Zasshi** 1997 Mar;98(3):403 **(Jpn)**

[Experimental study on myocardial edema and cardiac lymph in the preserved heart--effect of hyaluronidase] Yotsumoto G, et al. **Nippon Geka Gakkai Zasshi** 1997 Mar;98(3):404 **(Jpn)**

[Effect of phosphate diester linkage of vitamin E and vitamin C (EPC-K1) on myocardial ischemia reperfusion injury in the isolated working rat heart] Inoue M. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):742–9 (Eng. Abstr.) **(Jpn)**

[Doxorubicin-induced myocardial damage in elderly patients with hematologic malignancies] Niitsu N, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):38–42 (Eng. Abstr.) **(Jpn)**

[Adenosine triphosphate: an additive myocardial agent in cardioplegia] Mochizuki Y, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):176–9 (Eng. Abstr.) **(Jpn)**

[The cardiotoxicity of anticancer agents] Wakasugi S. **Ryoikibetsu Shokogun Shirizu** 1996;(14):83–7 (14 ref.) **(Jpn)**

[The effect of antioxidants on lipid metabolism in myocardium in experimental hyperthyroxinemic conditions] Grabowska-Maślanka H, et al. **Folia Med Cracov** 1996;37(1-2):61–6 (Eng. Abstr.) **(Pol)**

[The effect of some antioxidants on the response of selected lipid compounds in myocardium of rats] Janik A, et al. **Folia Med Cracov** 1996;37(3-4):29–34 (Eng. Abstr.) **(Pol)**

[The verapamil correction of postresuscitation damages to the heart] Korpacheva OV, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):48–51 (Eng. Abstr.) **(Rus)**

[The correction of post-poisoning damages to the myocardium caused by carbophos] Myshkin VA, et al. **Anesteziol Reanimatol** 1995 Nov-Dec;(6):54, 56–7 (Eng. Abstr.) **(Rus)**

[Participation of inducible stress-proteins in realizing the cardioprotective effect of Rhodiolae rosea] Afanas'ev SA, et al. **Biokhimiia** 1996 Oct;61(10):1779–84 (Eng. Abstr.) **(Rus)**

[Isolation of pectin from Amaranthus cruentus and study of its effect on the function of isolated rat heart] Désalen' TL, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):91–4 **(Rus)**

[A study of the mechanism of lidocaine and befol effects on Na-exchange in normal cardiomyocytes and in the experimental model of hypoxia in vitro] Khankoeva AI, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):45–7 **(Rus)**

[The effect of thymogen on the heart in ischemia and reperfusion] Filippova OV, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):27–9 (Eng. Abstr.) **(Rus)**

[The effect of fructose-1,6-diphosphate, cytochrome c and their combination on the size of the necrotic area in transient myocardial ischemia] Imatdieva RM, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):32–4 (Eng. Abstr.) **(Rus)**

[The comparative efficacy and differences in the molecular mechanism of the inotropic action of cardiac glycosides and nonglycoside cardiotropic agents on the contractile protein system of the myocardium] Karsanov NV, et al. **Eksp Klin Farmakol** 1996 May–Jun;59(3):28–33 (Eng. Abstr.) **(Rus)**

[The effect of phenobarbital and cimetidine on the elimination kinetics and distribution in the heart and liver of propranolol in rats with acute and chronic inflammations] Lutsevich AN, et al. **Eksp Klin Farmakol** 1996 May–Jun; 59(3):47–52 (Eng. Abstr.) **(Rus)**

[The effect of antianginal preparations on the hemodynamics and metabolism of the ischemic myocardium] Makolkin VI, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):18–20 (Eng. Abstr.) **(Rus)**

[The cardiotoxic properties of anti-arrhythmia agents] Spasov AA, et al. **Eksp Klin Farmakol** 1997 Mar–Apr; 60(2):20–3 (Eng. Abstr.) **(Rus)**

[The protective action of adenosine in the development of the "calcium paradox" in the isolated heart] Alabovskiĭ VV, et al. **Fiziol Zh** 1997;43(3-4):48–53 (Eng. Abstr.) **(Rus)**

[The effect of myelopid on the ultrastructural changes in the rat myocardium induced by an endotoxin] Kharlanova NG, et al. **Fiziol Zh** 1996;42(1-2):25–30 (Eng. Abstr.) **(Rus)**

[Cardioxan as a cardioprotector in antineoplastic chemotherapy] Lichinitser MP, et al. **Klin Med (Mosk)** 1996;74(5):65–7 **(Rus)**

[Comparison of myocardial effects of various antirheumatic modalities in patients with rheumatoid arthritis (prospective clinico-echocardiographic study)] Nemchinov EN, et al. **Klin Med (Mosk)** 1997;75(8):36–40 (Eng. Abstr.) **(Rus)**

[The structural-functional status of the myocardium and central and regional hemodynamics in patients with essential hypertension under the influence of treatment with korinfar and its combination with anaprilin] Polivoda SN, et al. **Lik Sprava** 1995 Sep–Dec;(9-12):32–4 **(Rus)**

[The characteristics of the effect of obzidan on the cardiac hemodynamics in patients with an artificial pacemaker when used one time and over a course of treatment] Iskenderov BG, et al. **Ter Arkh** 1996;68(5):60–3 (Eng. Abstr.) **(Rus)**

[The characteristics of cardiac diastolic function in myocardiodystrophy in persons subjected to aromatic hydrocarbon exposure] Tret'iakov SV, et al. **Ter Arkh** 1997; 69(1):47–9 (Eng. Abstr.) **(Rus)**

[Role of sodium ions in the protective action of nucleotides and their hydrolytic products in calcium paradox] Alabovskiĭ VV, et al. **Vestn Ross Akad Med Nauk** 1996; (5):45–51 (Eng. Abstr.) **(Rus)**

[Mechanisms involved in the antiarrhythmic and proarrhythmic effects of magnesium] Grin J, et al. **Medicina (B Aires)** 1996;56(3):231–40 (Eng. Abstr.) **(Spa)**

[The effect of alpha-adrenoblockaders on the lipid complex of the myocardium, liver and erythrocytes in dogs with pulmonary heart failure] Frantsuzova SB, et al. **Fiziol Zh** 1995 Sep–Dec;41(5-6):80–3 (Eng. Abstr.) **(Ukr)**

[The membrane-protective action of a new preparation of n-3 polyenic acids in the adrenaline-damaged myocardium] Kresiun VI, et al. **Lik Sprava** 1996 Mar–Apr;(3-4):49–52 (Eng. Abstr.) **(Ukr)**

[The use of mildronate and trental in treating disorders of hemorheology and the intracardiac hemodynamics in patients with chronic obstructive bronchitis] Sakharchuk II, et al. **Lik Sprava** 1996 Jan–Feb;(1-2):122–5 (Eng. Abstr.) **(Ukr)**

EMBRYOLOGY

Stereology of the myocardium in embryos, fetuses and neonates of the rat. Mandarim-de-Lacerda CA, et al. **Acta Anat (Basel)** 1995;154(4):261–6

Epithelial-mesenchymal transformations in early avian heart development. Markwald R, et al. **Acta Anat (Basel)** 1996; 156(3):173–86 (60 ref.)

Identification of a 283-kDa protein component of the particulate matrix associated with cardiac mesenchyme formation. Sinning AR, et al. **Acta Anat (Basel)** 1996; 155(4):219–30

Development of connectin/titin and nebulin in striated muscles of chicken. Shimada Y, et al. **Adv Biophys** 1996; 33:223–33 (37 ref.)

Usefulness of gated three-dimensional fetal echocardiography to reconstruct and display structures not visualized with two-dimensional imaging. Sklansky MS, et al. **Am J Cardiol** 1997 Sep 1;80(5):665–8

Fetal atrioventricular blood flow throughout gestation. Weiner Z, et al. **Am J Cardiol** 1997 Sep 1;80(5):658–62

Ca2+ transients in embryonic chick heart: contributions from Ca2+ channels and the sarcoplasmic reticulum. Brotto MA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H518–25

Effect of cardiac neural crest ablation on contractile force and calcium uptake and release in chick heart. Nosek TM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1464–71

Developmental changes in flow-wave propagation velocity in embryonic chick vascular system. Yoshigi M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1523–9

Development of cardiac musculature in the cranial vena cava of rat embryos. Endo H, et al. **Anat Embryol (Berl)** 1996 May;193(5):501–4

Analysis of the three-dimensional distributions of alpha-actinin, ankyrin, and filamin in developing hearts of normal and cardiac mutant axolotls (Ambystoma mexicanum). Lemanski SF, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):155–63

Experimental study on the significance of abnormal cardiac looping for the development of cardiovascular anomalies in neural crest-ablated chick embryos. Männer J, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):289–300

Temporal and spatial patterns of phosphotyrosine immunolocalization during cardiac myofibrillogenesis of the chicken embryo. Shiraishi I, et al. **Anat Embryol (Berl)** 1997 Jul;196(1):81–9

Carbonic anhydrase II expression pattern in mouse embryonic and fetal heart. Vuillemin M, et al. **Anat Embryol (Berl)** 1997 Mar;195(3):267–77

Development of myocardial fiber organization in the rat heart. Wenink AC, et al. **Anat Embryol (Berl)** 1996 Jun; 193(6):559–67

Stereological study of stage 34 chicken hearts with looping disturbances after retinoic acid treatment: disturbed growth of myocardium and atrioventricular cushion tissue. Bouman HG, et al. **Anat Rec** 1997 Jun;248(2):242–50

Primitive interventricular septum, its primordium, and its contribution in the definitive interventricular septum: in vivo labelling study in the chick embryo heart. de la Cruz MV, et al. **Anat Rec** 1997 Apr;247(4):512–20

Nuclear and cellular size of myocytes in different segments of the developing rat heart. Knaapen MW, et al. **Anat Rec** 1996 Jan;244(1):118–25

Ultrastructural changes of the myocardium in the embryonic rat heart. Knaapen MW, et al. **Anat Rec** 1997 Jun; 248(2):233–41

Temporal and spatial asymmetries in the initial distribution of mesenchyme cells in the atrioventricular canal cushions of the developing chick heart. Moreno-Rodriguez RA, et al. **Anat Rec** 1997 May;248(1):84–92

Immunolocalization of vinculin in the heart of the early developing rat embryo. Okagawa H, et al. **Anat Rec** 1996 Aug;245(4):699–707

Developmental changes in the myocardial architecture of the chick. Sedmera D, et al. **Anat Rec** 1997 Jul; 248(3):421–32

Observations on the external morphology and vasculature of a fetal heart of the bowhead whale, Balaena mysticetus. Tarpley RJ, et al. **Anat Rec** 1997 Apr;247(4):556–81

Origin of the pulmonary venous orifice in the mouse and its relation to the morphogenesis of the sinus venosus,

extracardiac mesenchyme (spina vestibuli), and atrium. Tasaka H, et al. **Anat Rec** 1996 Sep;246(1):107–13

Postnatal developmental profiles of antioxidant enzymes in heart. Maulik N, et al. **Ann N Y Acad Sci** 1996 Sep 30; 793:439–48

Pediatric myocardial protection. From the aspect of the developmental status of myocardium. Yamamoto F, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:355–65

"In vitro" expression of the cardiogenic potentiality of chick embryo heart–forming cells. Peirone SM, et al. **Arch Anat Histol Embryol** 1993–94;75:87–99

Steady–state mRNA levels of G protein subunits in developing rabbit myocardium. Fattal O, et al. **Biochem Mol Med** 1995 Dec;56(2):108–14

Trabeculation in the embryonic heart [letter] Sedmera D, et al. **Bioessays** 1996 Jul;18(7):607

Changes in myocardial A1 adenosine receptor and message levels during fetal development and postnatal maturation. Matherne GP, et al. **Biol Neonate** 1996;70(4):199–205

Developmental changes of connexin40 and connexin43 mRNA distribution patterns in the rat heart. Van Kempen MJ, et al. **Cardiovasc Res** 1996 Nov;32(5):886–900

Myofibrillogenesis in precardiac mesoderm explant culture. Imanaka–Yoshida K. **Cell Struct Funct** 1997 Feb;22(1):45–9

Expression of mRNAs for neurotrophins and their receptors in developing rat heart. Hiltunen JO, et al. **Circ Res** 1996 Nov;79(5):930–9

Unilateral vitelline vein ligation alters intracardiac blood flow patterns and morphogenesis in the chick embryo [see comments] Hogers B, et al. **Circ Res** 1997 Apr;80(4):473–81 . Comment in: Circ Res 1997 Apr;80(4):604–6.

Factors involved in cardiogenesis and the regulation of cardiac–specific gene expression. Mably JD, et al. **Circ Res** 1996 Jul;79(1):4–13 (74 ref.)

Things are developing in cardiology [editorial; comment] Olson EN. **Circ Res** 1997 Apr;80(4):604–6. Comment on: Circ Res 1997 Apr;80(4):437–43. Comment on: Circ Res 1997 Apr;80(4):444–51. Comment on: Circ Res 1997 Apr;80(4):452–62. Comment on: Circ Res 1997 Apr;80(4):463–72. Comment on: Circ Res 1997 Apr;80(4):473–81.

Vertebrate heart development. Lyons GE. **Curr Opin Genet Dev** 1996 Aug;6(4):454–60 (63 ref.)

Embryonic heart and skin defects in mice lacking plakoglobin. Bierkamp C, et al. **Dev Biol** 1996 Dec 15; 180(2):780–5

Retinoic acid can block differentiation of the myocardium after heart specification. Drysdale TA, et al. **Dev Biol** 1997 Aug 15;188(2):205–15

Regionalized transcriptional domains of myosin light chain 3f transgenes in the embryonic mouse heart: morphogenetic implications. Franco D, et al. **Dev Biol** 1997 Aug 1; 188(1):17–33

NK–2 homeobox genes and heart development. Harvey RP. **Dev Biol** 1996 Sep 15;178(2):203–16 (106 ref.)

Development of mechanisms regulating intracellular Ca2+ concentration in cardiac muscle cells of early chick embryos. Komazaki S, et al. **Dev Biol** 1997 Jun 15; 186(2):177–84

A new tinman–related gene, nkx2.7, anticipates the expression of nkx2.5 and nkx2.3 in zebrafish heart and pharyngeal endoderm. Lee KH, et al. **Dev Biol** 1996 Dec 15; 180(2):722–31

Left/right patterning signals and the independent regulation of different aspects of situs in the chick embryo. Levin M, et al. **Dev Biol** 1997 Sep 1;189(1):57–67

Skeletal and cardiac alpha–actin isoforms exhibit unanticipated temporal and tissue–specific gene expression patterns in developing avian limbs and embryos. Lin–Jones J, et al. **Dev Biol** 1997 Sep 15;189(2):322–34

N–cadherin–catenin interaction: necessary component of cardiac cell compartmentalization during early vertebrate heart development. Linask KK, et al. **Dev Biol** 1997 May 15;185(2):148–64

Combined BMP–2 and FGF–4, but neither factor alone, induces cardiogenesis in non–precardiac embryonic mesoderm. Lough J, et al. **Dev Biol** 1996 Aug 25; 178(1):198–202

Organizer induction determines left–right asymmetry in Xenopus. Nascone N, et al. **Dev Biol** 1997 Sep 1; 189(1):68–78

Induction of endocardial cushion tissue in the avian heart is regulated, in part, by TGFbeta–3–mediated autocrine signaling. Ramsdell AF, et al. **Dev Biol** 1997 Aug 1; 188(1):64–74

Chicken Nkx–2.8: a novel homeobox gene expressed in early heart progenitor cells and pharyngeal pouch–2 and –3 endoderm. Reecy JM, et al. **Dev Biol** 1997 Aug 15; 188(2):295–311

Retinoic acid directs cardiac laterality and the expression of early markers of precardiac asymmetry. Smith SM, et al. **Dev Biol** 1997 Feb 1;182(1):162–71

A heart segmental defect in the anterior–posterior axis of a transgenic mutant mouse. Yamamura H, et al. **Dev Biol** 1997 Jun 1;186(1):58–72

Temporospatial expression of the small HSP/alpha B–crystallin in cardiac and skeletal muscle during mouse development. Benjamin IJ, et al. **Dev Dyn** 1997 Jan; 208(1):75–84

Selective regulation of cardiomyocyte gene expression and cardiac morphogenesis by retinoic acid. Dickman ED, et al. **Dev Dyn** 1996 May;206(1):39–48

Latent transforming growth factor–beta is present in the extracellular matrix of embryonic hearts in situ. Ghosh S, et al. **Dev Dyn** 1996 Feb;205(2):126–34

Differential expression of alpha–6 and other subunits of laminin binding integrins during development of the murine heart. Hierck BP, et al. **Dev Dyn** 1996 May;206(1):100–11

Expression of the beta 4 integrin subunit in the mouse heart during embryonic development: retinoic acid advances beta 4 expression. Hierck BP, et al. **Dev Dyn** 1996 Sep; 207(1):89–103

Abnormal patterning of the aortic arch arteries does not evoke cardiac malformations. Kirby ML, et al. **Dev Dyn** 1997 Jan;208(1):34–47

Developmental Modulation of a beta myosin heavy chain promoter–driven transgene. Knotts S, et al. **Dev Dyn** 1996 Jun;206(2):182–92

Insulin–like growth factor–II/mannose–6–phosphate receptor expression during early heart development. McCormick KM, et al. **Dev Dyn** 1996 Oct;207(2):195–203

The development of the coronary vessels and their differentiation into arteries and veins in the embryonic quail heart. Vrancken Peeters MP, et al. **Dev Dyn** 1997 Mar; 208(3):338–48

Expression of alternatively spliced and canonical basic fibroblast growth factor mRNAs in the early embryo and developing heart. Zhu X, et al. **Dev Dyn** 1996 Jun; 206(2):139–45

Evidence that fibroblast growth factors 1 and 4 participate in regulation of cardiogenesis. Zhu X, et al. **Dev Dyn** 1996 Dec;207(4):429–38

Zebrafish tinman homolog demarcates the heart field and initiates myocardial differentiation. Chen JN, et al. **Development** 1996 Dec;122(12):3809–16

5–HT2B receptor–mediated serotonin morphogenetic functions in mouse cranial neural crest and myocardiac cells. Choi DS, et al. **Development** 1997 May;124(9):1745–55

Overexpression of the tinman–related genes XNkx–2.5 and XNkx–2.3 in Xenopus embryos results in myocardial hyperplasia. Cleaver OB, et al. **Development** 1996 Nov; 122(11):3549–56

Pax3 is required for cardiac neural crest migration in the mouse: evidence from the splotch (Sp2H) mutant. Conway SJ, et al. **Development** 1997 Jan;124(2):505–14

Fashioning the vertebrate heart: earliest embryonic decisions. Fishman MC, et al. **Development** 1997 Jun;124(11):2099–117 (208 ref.)

Requirements of DFR1/Heartless, a mesoderm–specific Drosophila FGF–receptor, for the formation of heart, visceral and somatic muscles, and ensheathing of longitudinal axon tracts in CNS. Shishido E, et al. **Development** 1997 Jun;124(11):2119–28

The allocation of epiblast cells to the embryonic heart and other mesodermal lineages: the role of ingression and tissue movement during gastrulation. Tam PP, et al. **Development** 1997 May;124(9):1631–42

Identification of a novel cardiac–specific transcript critical for cardiac myocyte differentiation. Wei Y, et al. **Development** 1996 Sep;122(9):2779–89

Induction of cardiac myogenesis in avian pregastrula epiblast: the role of the hypoblast and activin. Yatskievych TA, et al. **Development** 1997 Jul;124(13):2561–70

The held out wings (how) Drosophila gene encodes a putative RNA–binding protein involved in the control of muscular and cardiac activity. Zaffran S, et al. **Development** 1997 May;124(10):2087–98

Mice deficient for BMP2 are nonviable and have defects in amnion/chorion and cardiac development. Zhang H, et al. **Development** 1996 Oct;122(10):2977–86

Atrial natriuretic peptide accelerates proliferation of chick embryonic cardiomyocytes in vitro. Koide M, et al. **Differentiation** 1996 Oct;61(1):1–11

Stereology of the myocardium in human foetuses. Mandarim–de–Lacerda CA, et al. **Early Hum Dev** 1997 May 28;48(3):249–59

Effect of fetal growth restriction on ultrasonographically measured cardiac size. Miyague NI, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):93–8

D–mef2 is a target for Tinman activation during Drosophila heart development. Gajewski K, et al. **EMBO J** 1997 Feb 3;16(3):515–22

Over–expression of GATA–6 in Xenopus embryos blocks differentiation of heart precursors [published erratum appears in EMBO J 1997 Apr 1;16(7):1806–7] Gove C, et al. **EMBO J** 1997 Jan 15;16(2):355–68

The fetal origins of coronary heart disease [editorial] Barker DJ. **Eur Heart J** 1997 Jun;18(6):883–4

Differential regulation of gap junction protein (connexin) genes during cardiomyocytic differentiation of mouse embryonic stem cells in vitro. Oyamada Y, et al. **Exp Cell Res** 1996 Dec 15;229(2):318–26

Three–dimensional reconstitution of embryonic cardiomyocytes in a collagen matrix: a new heart muscle model system. Eschenhagen T, et al. **FASEB J** 1997 Jul; 11(8):683–94

Heartless, a Drosophila FGF receptor homolog, is essential for cell migration and establishment of several mesodermal lineages. Beiman M, et al. **Genes Dev** 1996 Dec 1; 10(23):2993–3002

Homeodomain factor Nkx2–5 controls left/right asymmetric expression of bHLH gene eHand during murine heart development. Biben C, et al. **Genes Dev** 1997 Jun 1; 11(11):1357–69

heartless encodes a fibroblast growth factor receptor (DFR1/DFGF–R2) involved in the directional migration of early mesodermal cells in the Drosophila embryo. Gisselbrecht S, et al. **Genes Dev** 1996 Dec 1;10(23):3003–17

GATA4 transcription factor is required for ventral morphogenesis and heart tube formation. Kuo CT, et al. **Genes Dev** 1997 Apr 15;11(8):1048–60

Requirement of the transcription factor GATA4 for heart tube formation and ventral morphogenesis. Molkentin JD, et al. **Genes Dev** 1997 Apr 15;11(8):1061–72

A role for bone morphogenetic proteins in the induction of cardiac myogenesis. Schultheiss TM, et al. **Genes Dev** 1997 Feb 15;11(4):451–62

Activin treated urodele ectoderm: a model experimental system for cardiogenesis. Ariizumi T, et al. **Int J Dev Biol** 1996 Aug;40(4):715–8 (19 ref.)

Experimental analysis of the mechanisms implicated in the induction and commitment of precardiogenic mesodermal cells during avian gastrulation. Garcia–Martinez V, et al. **Int J Dev Biol** 1996;Suppl 1:215S–216S

In situ hybridization and immunocytochemical analyses of the expression of cardiac–specific genes in an experimental model, which prevents the fusion and subsequent formation of the single tubular heart in avian embryos. López–Sanchez C, et al. **Int J Dev Biol** 1996;Suppl 1:259S–260S

Differentiation of myoendocrine cardiac cells from presumptive heart mesoderm explants of Bufo arenarum. Ruiz GC, et al. **Int J Dev Biol** 1995 Dec;39(6):1033–9

A method for the isolation and culture of embryonic cardiomyocytes from Mexican axolotl. Zajdel RW, et al. **Int J Dev Biol** 1996 Aug;40(4):907–8

Myocardial microvasculature in fetuses and neonates of rat. Stereological study. Villar VC, et al. **Ital J Anat Embryol** 1995 Oct–Dec;100(4):211–8

The study of early human embryos using interactive 3–dimensional computer reconstructions. Scarborough J, et al. **J Anat** 1997 Jul;191 (Pt 1):117–22

Effects of calcium channel blockers on cultured rat embryos. Ban Y, et al. **J Appl Toxicol** 1996 Mar–Apr;16(2):147–51

Transcriptional coactivator p300 stimulates cell type–specific gene expression in cardiac myocytes. Hasegawa K, et al. **J Biol Chem** 1997 Aug 8;272(32):20049–54

Characterization of passive embryonic myocardium by quasi–linear viscoelasticity theory. Miller CE, et al. **J Biomech** 1997 Sep;30(9):985–8

Targeted mutation of plakoglobin in mice reveals essential functions of desmosomes in the embryonic heart. Ruiz P, et al. **J Cell Biol** 1996 Oct;135(1):215–25

Oxygen–induced constriction of rabbit ductus arteriosus occurs via inhibition of a 4–aminopyridine–, voltage–sensitive potassium channel [see comments] Tristani–Firouzi M, et al. **J Clin Invest** 1996 Nov 1; 98(9):1959–65. Comment in: J Clin Invest 1996 Nov 1;98(9):1945–6.

Hypotonic stress induces translocation of the osmolyte channel protein pICln in embryonic skate (Raja eglanteria) heart. Musch MW, et al. **J Exp Zool** 1997 Apr 15; 277(6):460–3

Novel techniques to identify stage–specific genes during heart development. Hinton DA. **J Fla Med Assoc** 1996 Feb; 83(2):135–7 (11 ref.)

Effects of heparin on the electrophysiological and mechanical properties of early embryonic chick hearts. Alanis J, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2503–11

Regional and age–related differences in mRNA composition of intracellular Ca(2+)–release channels of rat cardiac myocytes. Gorza L, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):1023–36

Cardiac alpha–adrenergic receptor expression is regulated by thyroid hormone during a critical developmental period. Metz LD, et al. **J Mol Cell Cardiol** 1996 May;28(5):1033–44

Analysis of heart development in cultured rat embryos. Nakagawa M, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):369–79

The survival of embryonic cardiomyocytes transplanted into damaged host rat myocardium. Connold AL, et al. **J Muscle Res Cell Motil** 1997 Feb;18(1):63–70

You gotta have heart [letter; comment] Irish MS, et al. **J Pediatr** 1996 Jul;129(1):175–6; discussion 176–7. Comment on: J Pediatr 1995 Jul;127(1):131–3.

Can cardiac weight predict lung weight in patients with congenital diaphragmatic hernia? Karamanoukian HL, et al. **J Pediatr Surg** 1996 Jun;31(6):823–5

Maintenance of fetal murine pulmonary microvasculature in heart–lung en bloc whole organ culture. Zgleszewski SE, et al. **J Pediatr Surg** 1997 Aug;32(8):1161–8

Fetal surgical interventions and the development of the heart in congenital diaphragmatic hernia. Karamanoukian HL, et al. **J Surg Res** 1996 Sep;65(1):5–8

Video–imaging assessment of initial beating patterns of the early embryonic chick heart. Sakai T, et al. **Jpn J Physiol** 1996 Dec;46(6):465–72

Chicken NKx2–8, a novel homeobox gene expressed during early heart and foregut development. Brand T, et al. **Mech Dev** 1997 Jun;64(1–2):53–9

Chick NKx–2.3 represents a novel family member of vertebrate homologues to the Drosophila homeobox gene tinman: differential expression of cNKx–2.3 and cNKx–2.5 during heart and gut development. Buchberger A, et al. **Mech Dev** 1996 May;56(1–2):151–63

Early expression of the different isoforms of the myocyte enhancer factor–2 (MEF2) protein in myogenic as well

as non-myogenic cell lineages during mouse embryogenesis. Subramanian SV, et al. **Mech Dev** 1996 Jun; 57(1):103–12

Three zebrafish MEF2 genes delineate somitic and cardiac muscle development in wild-type and mutant embryos. Ticho BS, et al. **Mech Dev** 1996 Oct;59(2):205–18

Non-invasive determination of instantaneous heart rate in developing avian embryos by means of acoustocardiogram. Akiyama R, et al. **Med Biol Eng Comput** 1997 Jul; 35(4):323–7

Retroviral techniques for studying organogenesis with a focus on heart development. Hyer J, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):23–35

Identification of an essential nonneuronal function of neurotrophin 3 in mammalian cardiac development. Donovan MJ, et al. **Nat Genet** 1996 Oct;14(2):210–3

Right and left go dHAND and eHAND [news; comment] Overbeek PA. **Nat Genet** 1997 Jun;16(2):119–21. Comment on: Nat Genet 1997 Jun;16(2):154–60.

Regulation of cardiac mesodermal and neural crest development by the bHLH transcription factor, dHAND [see comments] [published erratum appears in Nat Genet 1997 Aug;16(4):410] Srivastava D, et al. **Nat Genet** 1997 Jun;16(2):154–60. Comment in: Nat Genet 1997 Jun;16(2):119–21.

Semaphorin III is needed for normal patterning and growth of nerves, bones and heart. Behar O, et al. **Nature** 1996 Oct 10;383(6600):525–8

Apoptosis: is cell death a crucial step in cardiac development? Abdulla R. **Pediatr Cardiol** 1997 Jul–Aug;18(4):308

Doppler echocardiography of normal and abnormal embryonic mouse heart. Gui YH, et al. **Pediatr Res** 1996 Oct;40(4):633–42

The chorioallantoic artery blood flow of the chick embryo from stage 34 to 43. van Golde J, et al. **Pediatr Res** 1996 Dec;40(6):867–71

Control of vertebrate left-right asymmetry by a snail-related zinc finger gene [see comments] Isaac A, et al. **Science** 1997 Feb 28;275(5304):1301–4. Comment in: Science 1997 Feb 28;275(5304):1280.

Control of mouse cardiac morphogenesis and myogenesis by transcription factor MEF2C. Lin Q, et al. **Science** 1997 May 30;276(5317):1404–7

Left-right asymmetry [comment] Robertson EJ. **Science** 1997 Feb 28;275(5304):1280. Comment on: Science 1997 Feb 28;275(5304):1301–4.

The heart and development. Anderson PA. **Semin Perinatol** 1996 Dec;20(6):482–509 (173 ref.)

Substrate metabolism in the developing heart. Ascuitto RJ, et al. **Semin Perinatol** 1996 Dec;20(6):542–63 (148 ref.)

The genetics of left-right development and heterotaxia. Bowers PN, et al. **Semin Perinatol** 1996 Dec;20(6):577–88 (58 ref.)

Studies of mitochondria in oxidative embryotoxicity. Fantel AG, et al. **Teratology** 1995 Oct;52(4):190–5

Cervical flexion: its contribution to normal and abnormal cardiac morphogenesis. Kosaki K, et al. **Teratology** 1996 Sep;54(3):135–44

Mouse embryonic cardiac metabolism under euglycemic and hypoglycemic conditions [see comments] Peet JH, et al. **Teratology** 1996 Jul;54(1):20–6. Comment in: Teratology 1996 Nov;54(5):266.

Liposome-mediated transfer of genes containing HLA-class II alpha chain into cultured embryonic chick cardiac myocytes and COS7 cells. Aleksic I, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):81–5

Expression of the aryl hydrocarbon receptor (AhR) and AhR nuclear translocator during chick cardiogenesis is consistent with 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced heart defects. Walker MK, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):407–19

[Induction of autonomously contracting muscle cells in the gastrula ectoderm by live cardiomyocytes from adult frogs] Golubeva ON, et al. **Dokl Akad Nauk** 1996 Jun; 348(4):560–3 **(Rus)**

ENZYMOLOGY see MYOCARDIUM/enzymology

GROWTH & DEVELOPMENT

Do echocardiographic changes explain the age-associated increase in exercise-induced supraventricular arrhythmias? O'Connor FC, et al. **Aging (Milano)** 1997 Feb–Apr; 9(1–2):120–6

Prostaglandin F2 alpha induces cardiac myocyte hypertrophy in vitro and cardiac growth in vivo. Lai J, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2197–208

Hyperplasia and hypertrophy of chicken cardiac myocytes during posthatching development. Li F, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R518–26

Identification and characterization of the zeta-opioid receptor in developing rat heart. McLaughlin PJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R1841–6

Amelioration of ischemic calcium overload correlates with high-energy phosphates in senescent myocardium. Tsukube T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H418–25

Development of inwardly rectifying K+ channel family in rat ventricular myocytes. Xie LH, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1741–50

Heart 'growth stagnation' during the year following menarche. Miličević G, et al. **Ann Hum Biol** 1997 Mar–Apr; 24(2):169–80

Linoleic acid metabolism in primary cultures of adult rat cardiomyocytes is impaired by aging. Lopez Jimenez JA, et al. **Biochem Biophys Res Commun** 1997 Aug 8; 237(1):142–5

Developmental expression of the collagen-binding heat-shock protein GP46 and collagen types I and IV in rat tissues. Pak BJ, et al. **Biochem Cell Biol** 1996; 74(2):179–85

Involvement of the neuregulins and their receptors in cardiac and neural development. Carraway KL 3rd. **Bioessays** 1996 Apr;18(4):263–6 (27 ref.)

Developmental expression of dystrophin, dystrophin-associated glycoproteins and other membrane cytoskeletal proteins in human skeletal and heart muscle. Mora M, et al. **Brain Res Dev Brain Res** 1996 Jan 22; 91(1):70–82

Type VI collagen in the cardiac valves and connective tissue septa during heart development. Kitten GT, et al. **Braz J Med Biol Res** 1996 Sep;29(9):1189–93

Insulin-like growth factor-1 and myocyte growth: the danger of a dogma. Part I. Postnatal myocardial development: normal growth [see comments] Anversa P, et al. **Cardiovasc Res** 1996 Aug;32(2):219–25 (57 ref.). Comment in: Cardiovasc Res 1996 Aug;32(2):217–8.

Expression and regulation of 80K/MARCKS, a major substrate of protein kinase C, in the developing rat heart. McGill CJ, et al. **Cardiovasc Res** 1997 May;34(2):368–76

Developmental changes of connexin40 and connexin43 mRNA distribution patterns in the rat heart. Van Kempen MJ, et al. **Cardiovasc Res** 1996 Nov;32(5):886–900

Contribution of sarcolemmal calcium current to total cellular calcium in postnatally developing rat heart. Vornanen M. **Cardiovasc Res** 1996 Aug;32(2):400–10

Gateways, gangways, getaways and the one-trick dog misjudged [comment] Weber KT. **Cardiovasc Res** 1996 Aug;32(2):217–8. Comment on: Cardiovasc Res 1996 Aug;32(2):219–25.

Dissociated spatial patterning of gap junctions and cell adhesion junctions during postnatal differentiation of ventricular myocardium. Angst BD, et al. **Circ Res** 1997 Jan;80(1):88–94

Expression of mRNAs for neurotrophins and their receptors in developing rat heart. Hiltunen JO, et al. **Circ Res** 1996 Nov;79(5):930–9

Load-induced growth responses in isolated adult rat hearts. Role of the AT1 receptor. Thienelt CD, et al. **Circulation** 1997 Jun 17;95(12):2677–83

Cardiac neural crest is essential for the persistence rather than the formation of an arch artery. Waldo KL, et al. **Dev Dyn** 1996 Mar;205(3):281–92

Differential expression of C-protein isoforms in the developing heart of normal and cardiac lethal mutant axolotls (Ambystoma mexicanum). Ward SM, et al. **Dev Dyn** 1996 Feb;205(2):93–103

A 900 bp genomic region from the mouse dystrophin promoter directs lacZ reporter expression only to the right heart of transgenic mice. Kimura S, et al. **Dev Growth Differ** 1997 Jun;39(3):257–65

Maturation of the cardiopulmonary system. Cottrill CM. **Equine Vet J Suppl** 1993 Apr;(14):26–30 (74 ref.)

Expression of the ADP/ATP carrier and expansion of the mitochondrial (ATP + ADP) pool contribute to postnatal maturation of the rat heart. Schönfeld P, et al. **Eur J Biochem** 1996 Nov 1;241(3):895–900

Retarded heart growth in the victims of sudden infant death: possible implications for lethal mechanisms. Kelmanson IA. **Eur J Pediatr** 1996 Jun;155(6):440–4

Adult rat cardiomyocyte proliferation assay [letter] Smith DM Jr, et al. **In Vitro Cell Dev Biol Anim** 1997 Jun; 33(6):428–31

Characterization of human B creatine kinase gene regulation in the heart in vitro and in vivo. Ritchie ME. **J Biol Chem** 1996 Oct 11;271(41):25485–91

Effects of cardiomyoplasty on cardiac growth in rats. van Doorn CA, et al. **J Card Surg** 1996 May–Jun;11(3):226–33

An intrinsic cardiac adrenergic system can regulate cardiac development and function [editorial] Abboud FM. **J Clin Invest** 1996 Sep 15;98(6):1275–6

Heart rate during development in the turtle embryo: effect of temperature. Birchard GF, et al. **J Comp Physiol [B]** 1996;166(8):461–6

Infant and donor organ growth after heart transplantation in neonates with hypoplastic left heart syndrome. Hirsch R, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1093–100

Inhibition of nitric oxide in rats. Regulation of cardiovascular structure and expression of insulin-like growth factor I and its receptor messenger RNA. Wickman A, et al. **J Hypertens** 1997 Jul;15(7):751–9

Developmental changes in the effects of pH on contraction and Ca2+ current in rabbit heart. Chen F, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):635–42

Developmental regulation of angiotensin type 1 and 2 receptor gene expression and heart growth. Everett AD, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):141–8

Identification of genes associated with myocardial development. Fung YW, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1241–9

Inhibition of cardiac myocyte division in c-myc transgenic mice. Machida N, et al. **J Mol Cell Cardiol** 1997 Jul; 29(7):1895–902

Relationship of the extracellular matrix to coronary neovascularization during development. Rongish BJ, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2203–15

Developmental changes in rat cardiac DNA, RNA and protein tissue base: implications for the interpretation of changes in gene expression. van den Hoff MJ, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):629–39

Regulation of post-translationally modified microtubule populations during neonatal cardiac development. Webster DR. **J Mol Cell Cardiol** 1997 Jun;29(6):1747–61

Cardiotrophin-1 and the role of gp130-dependent signaling pathways in cardiac growth and development. Wollert KC, et al. **J Mol Med** 1997 Jul;75(7):492–501 (98 ref.)

Rapid cardiac growth--mechanical, neural and endocrine dependence. Morgan HE, et al. **Jpn Circ J** 1997 Aug; 61(8):645–9 (20 ref.)

G proteins, adenylyl cyclase and related phosphoproteins in the developing rat heart. Bartel S, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:31–8

Immediate postnatal rat heart development modified by abdominal aortic banding: analysis of gene expression. Engelmann GL, et al. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:47–56

Catecholamines and cardiac growth. Gupta MP, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:203–10

Localization of alpha 1,2,3-subunit isoforms of Na,K-ATPase in cultured neonatal and adult rat myocardium: the immunofluorescence and immunocytochemical study. Slezak J, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:39–45

Excitation-contraction coupling of the developing rat heart. Vornanen M. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:5–11 (51 ref.)

Identification of an essential nonneuronal function of neurotrophin 3 in mammalian cardiac development. Donovan MJ, et al. **Nat Genet** 1996 Oct;14(2):210–3

Understanding cardiac development through the perspective of gene regulation and gene manipulation. Witte DP, et al. **Pediatr Pathol Lab Med** 1996 Mar–Apr;16(2):173–94 (129 ref.)

Roles of the voltage-gated K+ channel subunits, Kv 1.5 and Kv 1.4, in the developmental changes of K+ currents in cultured neonatal rat ventricular cells. Guo W, et al. **Pflugers Arch** 1997 Jun;434(2):206–8

The heart and development. Anderson PA. **Semin Perinatol** 1996 Dec;20(6):482–509 (173 ref.)

Substrate metabolism in the developing heart. Ascuitto RJ, et al. **Semin Perinatol** 1996 Dec;20(6):542–63 (148 ref.)

Cardiac development and perinatal care of infants with neural crest-associated conotruncal defects. Leatherbury L, et al. **Semin Perinatol** 1996 Dec;20(6):473–81 (38 ref.)

Calcium homeostasis and control of contractility in the developing heart. Mahony L. **Semin Perinatol** 1996 Dec; 20(6):510–9 (112 ref.)

IMMUNOLOGY see MYOCARDIUM/immunology

INJURIES see HEART INJURIES

INNERVATION

Bupivacaine does not suppress cardiac sympathetic nerve activity during halothane anesthesia in the cat. Nishikawa K, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):595–601

Quantitative study and architecture of nerves and ganglia of the rat heart. de Souza RR, et al. **Acta Anat (Basel)** 1996;156(1):53–60

Signs of functional efferent reinnervation of the heart in patients after cardiac transplantation. Fagard R, et al. **Acta Cardiol** 1995;50(5):369–80

Cardiac vagal control and dynamic responses to psychological stress among patients with coronary artery disease. Grossman P, et al. **Am J Cardiol** 1996 Dec 15; 78(12):1424–7

Cardiac sympathetic denervation in patients with coronary artery disease without previous myocardial infarction. Hartikainen J, et al. **Am J Cardiol** 1997 Aug 1;80(3):273–7

Autonomic neural control of cardiac function: modulation by adenosine and adenosine 5'-triphosphate. Pelleg A, et al. **Am J Cardiol** 1997 Jun 19;79(12A):11–4 (72 ref.)

Increased QT dispersion and cardiac adrenergic dysinnervation in diabetic patients with autonomic neuropathy. Shimabukuro M, et al. **Am J Cardiol** 1996 Nov 1;78(9):1057–9

Daily exercise and gender influence postexercise cardiac autonomic responses in hypertensive rats. Chen Y, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1412–8

Effect of cardiac neural crest ablation on contractile force and calcium uptake and release in chick heart. Nosek TM, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1464–71

Blood pressure variability responses to tilt are buffered by cardiac autonomic control. Sloan RP, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1427–31

A new, concise dialysis approach to assessment of cardiac sympathetic nerve terminal abnormalities. Yamazaki T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1182–7

Gross and microscopic anatomy of the human intrinsic cardiac nervous system. Armour JA, et al. **Anat Rec** 1997 Feb;247(2):289–98

The duration of impairment of autonomic control after anticholinergic drug administration in humans. Parlow JL, et al. **Anesth Analg** 1997 Jan;84(1):155–9

Intermittent warm blood cardioplegia preserves myocardial beta-adrenergic receptor function. Chello M, et al. **Ann Thorac Surg** 1997 Mar;63(3):683–8

Impaired blood flow response following pressure load in diabetic patients with cardiac autonomic neuropathy. van Marum RJ, et al. **Arch Phys Med Rehabil** 1997 Sep; 78(9):1003–6

Diminished cardiac vagal tone in schizophrenia: associations to brain laterality and age of onset. Malaspina D, et al. **Biol Psychiatry** 1997 Mar 1;41(5):612–7

Noradrenaline synthesis after sympathetic nerve activation in rat atria and its dependence on calcium but not CAM kinase II and protein kinases A or C. Kotsonis P, et al. **Br J Pharmacol** 1996 Dec;119(8):1605–13

Voltage-gated currents in identified parasympathetic cardiac neurons in the nucleus ambiguus. Mihalevich M, et al. **Brain Res** 1996 Nov 11;739(1–2):258–62

Brainstem origin of preganglionic cardiac motoneurons in the muskrat. Panneton WM, et al. **Brain Res** 1996 Nov 4;738(2):342–6

omega-Conotoxin GVIA and desipramine insensitive norepinephrine efflux from cardiac sympathetic nerve terminal. Yamazaki T, et al. **Brain Res** 1997 Jul 4; 761(2):329–32

NADPH diaphorase-positive neurons in the intracardiac plexus of human, monkey and canine right atria. Yoshida K, et al. **Brain Res** 1996 Jun 17;724(2):256–9

Heart rate changes in cardiac transplant patients and in the denervated cat heart after edrophonium. Backman SB, et al. **Can J Anaesth** 1997 Mar;44(3):247–54

Pharmacological properties of the denervated heart [letter] Backman SB, et al. **Can J Anaesth** 1997 Aug;44(8):900–1

Chronotropic response to cardiac sympathetic nerve stimulation in spontaneously hypertensive rats. Masuda Y, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):97–103

Bradykinin modulation of isolated rabbit heart function is mediated by intrinsic cardiac neurons. Izrailtyan I, et al. **Cardiovasc Res** 1997 Mar;33(3):641–9

Cardiac sympathetic neuronal function in left ventricular volume and pressure overload. Somsen GA, et al. **Cardiovasc Res** 1996 Jan;31(1):132–8

Neuropeptide Y-immunoreactive intracardiac neurones, granule-containing cells and nerves associated with ganglia and blood vessels in rat and guinea-pig heart. Sosunov AA, et al. **Cell Tissue Res** 1997 Sep;289(3):445–54

The effect of thrombolytic therapy on short- and long-term cardiac autonomic activity in patients with acute myocardial infarction. Chen CK, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec;58(6):392–9

Protective role of nerve growth factor against postischemic dysfunction of sympathetic coronary innervation. Abe T, et al. **Circulation** 1997 Jan 7;95(1):213–20

Chemoreflexes in heart failure [letter] Chua TP, et al. **Circulation** 1997 Sep 16;96(6):2090–1

Heterogeneous sympathetic innervation in German shepherd dogs with inherited ventricular arrhythmia and sudden cardiac death. Dae MW, et al. **Circulation** 1997 Aug 19; 96(4):1337–42

Neural-immune links in adventitial remodeling in human coronary atherosclerosis [letter] Ghenev PI, et al. **Circulation** 1997 Sep 16;96(6):2083–4

Surgically denervated cardiac transplant. Rewired or permanently unplugged? [editorial; comment] Mancini D. **Circulation** 1997 Jul 1;96(1):6–8. Comment on: Circulation 1997 Jul 1;96(1):232–7.

Cardiac sympathetic responses to acute vasodilation. Normal ventricular function versus congestive heart failure. Newton GE, et al. **Circulation** 1996 Dec 15;94(12):3161–7

Increased cardiac adrenergic drive precedes generalized sympathetic activation in human heart failure. Rundqvist B, et al. **Circulation** 1997 Jan 7;95(1):169–75

6-[18F]fluorodopamine positron emission tomographic scanning in the assessment of cardiac sympathoneural function--studies in normal humans. Goldstein DS, et al. **Clin Auton Res** 1997 Feb;7(1):17–29

Left-insular cortex lesions perturb cardiac autonomic tone in humans. Oppenheimer SM, et al. **Clin Auton Res** 1996 Jun;6(3):131–40

Noradrenergic hyperinnervation in the heart of stroke-prone spontaneously hypertensive rats. Kondo M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S75–6

Isometric contraction of arm flexor muscles as a method of evaluating cardiac vagal tone in man. al-Ani M, et al. **Clin Sci (Colch)** 1997 Feb;92(2):175–80

Modulation of neurocardiac function by oesophageal stimulation in humans. Tougas G, et al. **Clin Sci (Colch)** 1997 Feb;92(2):167–74

Partial restoration of scintigraphically assessed cardiac sympathetic denervation in newly diagnosed patients with insulin-dependent (type 1) diabetes mellitus at one-year follow-up. Schnell O, et al. **Diabet Med** 1997 Jan; 14(1):57–62

Autoantibodies to sympathetic ganglia, GAD, or tyrosine phosphatase in long-term IDDM with and without ECG-based cardiac autonomic neuropathy. Muhr D, et al. **Diabetes Care** 1997 Jun;20(6):1009–12

Demonstration of regional sympathetic denervation of the heart in diabetes. Comparison between patients with NIDDM and IDDM. Turpeinen AK, et al. **Diabetes Care** 1996 Oct;19(10):1083–90

Alteration of cardiac function in patients with temporal lobe epilepsy: different roles of EEG-ECG monitoring and spectral analysis of RR variability. Massetani R, et al. **Epilepsia** 1997 Mar;38(3):363–9

Temporary loss of cardiac autonomic innervation after the maze procedure. Vogt PR, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):75–81

Neuroanatomy of cardiac activity-regulating circuitry: a transneuronal retrograde viral labelling study in the rat. Ter Horst GJ, et al. **Eur J Neurosci** 1996 Oct;8(10):2029–41

Reflex vascular responses from aortic arch, carotid sinus and coronary baroreceptors in the anaesthetized dog. McMahon NC, et al. **Exp Physiol** 1996 May;81(3):397–408

Cardiac autonomic involvement and peripheral nerve function in patients with diabetic neuropathy. Spitzer A, et al. **Funct Neurol** 1997 May-Aug;12(3–4):115–22

Sympathetic reinnervation and heart rate variability after cardiac transplantation. Lord SW, et al. **Heart** 1997 Jun; 77(6):532–8

beta 2-adrenoreceptor immunoreactivity in cardiac ganglia of the guinea pig. Haberberger R, et al. **Histochem J** 1996 Nov;28(11):827–33

Neuronal dysfunction in heart failure assessed by cardiac 123-iodine metaiodobenzylguanidine scintigraphy. Somsen GA, et al. **Int J Card Imaging** 1996 Dec;12(4):305–10

Power spectral analysis of heart rate variability in obese subjects: evidence of decreased cardiac sympathetic responsiveness. Piccirillo G, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):825–9

Cardiac autonomic nerve function and insulin sensitivity in obese subjects. Richter WO, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):966–9

Heart rate variability in the human transplanted heart: nonlinear dynamics and QT vs RR-QT alterations during exercise suggest a return of neurocardiac regulation in long-term recovery. Meyer M, et al. **Integr Physiol Behav Sci** 1996 Oct-Dec;31(4):289–305

Application of chaos theory to a model biological system: evidence of self-organization in the intrinsic cardiac nervous system. Skinner JE, et al. **Integr Physiol Behav Sci** 1996 Apr-Jun;31(2):122–46

Randomized trial of a hospital-based exercise training program after acute myocardial infarction: cardiac autonomic effects. Leitch JW, et al. **J Am Coll Cardiol** 1997 May;29(6):1263–8

Is respiratory sinus arrhythmia a good index of cardiac vagal tone in exercise? Casadei B, et al. **J Appl Physiol** 1996 Aug; 81(2):556–64

Simultaneous cardiac and renal sympathetic neural responses to activation of left ventricular sympathetic afferents. Malik R, et al. **J Auton Nerv Syst** 1997 Jul 14;65(1):10–6

Morphological study of neurons in the nerve plexus on heart base of rats and guinea pigs. Pauza DH, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):1–12

Cardiac vagal effects of rilmenidine in the dog: comparison with clonidine. Boucher M, et al. **J Auton Pharmacol** 1997 Apr;17(2):87–90

Calcitonin gene-related peptide (CGRP)-evoked inotropism during hyper- and hypo-sensory-motor innervation in rat atria. Rubino A, et al. **J Auton Pharmacol** 1997 Apr; 17(2):121–7

Force-frequency relations in the failing rabbit heart and responses to adrenergic stimulation. Ryu KH, et al. **J Card Fail** 1997 Mar;3(1):27–39

Myocardial sympathetic dysinnervation in doxorubicin cardiomyopathy. Takano H, et al. **J Cardiol** 1996 Feb; 27(2):49–55

Chemical cardiac sympathetic denervation hampers defibrillation in the dog. Ruffy R, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):62–7

Changes in cardiac autonomic control during nocturnal repetitive oxygen desaturation episodes in patients with coronary artery disease. Keyl C, et al. **J Cardiovasc Risk** 1996 Apr;3(2):221–7

Vagal afferent innervation of the atria of the rat heart reconstructed with confocal microscopy. Cheng Z, et al. **J Comp Neurol** 1997 Apr 28;381(1):1–17

Postnatal maturation of autonomic modulation of heart rate. Assessments of parasympathetic and sympathetic efferent function in the developing canine heart. Pickoff AS, et al. **J Electrocardiol** 1996;29 Suppl:215–22

Fluid homeostasis after heart transplantation: the role of cardiac denervation. Braith RW, et al. **J Heart Lung Transplant** 1996 Sep;15(9):872–80

Time-dependent decrease of presynaptic inotropic supersensitivity: physiological evidence of sympathetic reinnervation after heart transplantation. Koglin J, et al. **J Heart Lung Transplant** 1997 Jun;16(6):621–8

The effects of bilateral vagotomy on substance P-like immunoreactive nerves in the cardiac ganglia of the monkey (Macaca fascicularis). Tay SS, et al. **J Hirnforsch** 1997;38(1):125–32

Bulbospinal sympatho-excitatory neurons in the rat caudal raphe. Pilowsky PM, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1618–23

Is there a correlation between cardiac sympathetic neuropathy or diabetic somatic neuropathy and glycosylated haemoglobin or blood pressure in patients with non-insulin-dependent diabetes mellitus? Okada S, et al. **J Int Med Res** 1995 Nov-Dec;23(6):467–72

Synaptic and extrasynaptic distribution of two distinct populations of nicotinic acetylcholine receptor clusters in the frog cardiac ganglion. Wilson Horch HL, et al. **J Neurocytol** 1996 Jan;25(1):67–77

Calcium channel currents in acutely dissociated intracardiac neurons from adult rats. Jeong SW, et al. **J Neurophysiol** 1997 Apr;77(4):1769–78

Functional role of Ca2+ currents in graded and spike-mediated synaptic transmission between leech heart interneurons. Lu J, et al. **J Neurophysiol** 1997 Apr; 77(4):1779–94

Dendritic morphology of cardiac related medullary neurons defined by circuit-specific infection by a recombinant pseudorabies virus expressing beta-galactosidase. Standish A, et al. **J Neurovirol** 1995 Dec;1(5–6):359–68

Pharmacologic characterization in vitro and in vivo of iodine 123-labeled derivatives of the beta-adrenoceptor antagonist CGP12177, designed for the imaging of cardiac beta-receptors. Dubois EA, et al. **J Nucl Cardiol** 1996 May-Jun;3(3):242–52

Scintigraphic evaluation of cardiac autonomic innervation. Münch G, et al. **J Nucl Cardiol** 1996 May-Jun;3(3):265–77 (89 ref.)

Serial assessment of sympathetic reinnervation in a patient with myocardial infarction. Abe Y, et al. **J Nucl Med** 1997 Mar;38(3):457–9

Evaluation of cardiac sympathetic innervation with iodine-123-metaiodobenzylguanidine imaging in silent myocardial ischemia. Matsuo S, et al. **J Nucl Med** 1996 May;37(5):712–7

Assessment of cardiac sympathetic function with iodine-123-MIBG imaging in obstructive sleep apnea syndrome. Otsuka N, et al. **J Nucl Med** 1997 Apr; 38(4):567–72

Clinical evaluation of carbon-11-phenylephrine: MAO-sensitive marker of cardiac sympathetic neurons. Raffel DM, et al. **J Nucl Med** 1996 Dec;37(12):1923–31

Alterations of myocardial sympathetic innervation in response to hypoxia. Scherrer-Crosbie M, et al. **J Nucl Med** 1997 Jun;38(6):954–7

Vasoactive intestinal polypeptide modulation of nicotinic ACh receptor channels in rat intracardiac neurones. Cuevas J, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):503–15

Possible role of diadenosine polyphosphates as modulators of cardiac sensory-motor neurotransmission in guinea-pigs. Rubino A, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):515–23

Topography of cardiac ganglia in the adult human heart. Singh S, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):943–53

The cardiac ganglia: cellular and molecular aspects. Baptista CA, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jan;13(1):42–54 (64 ref.)

Origin and morphogenesis of neurons in the frog cardiac ganglion. Heathcote RD. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jan; 13(1):36–41 (21 ref.)

Cardiac neurones of autonomic ganglia. Wallis D, et al. **Microsc Res Tech** 1996 Sep 1;35(1):69–79 (80 ref.)

Immunohistochemical analysis of the adaptation of adult guinea-pig cardiomyocytes in long-term cultures and in cocultures with cardiac neurons: a novel model for studies of myocardial function. Horackova M, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):227–38

Effects of cardiac sympathetic innervation on coronary blood flow. Di Carli MF, et al. **N Engl J Med** 1997 Apr 24; 336(17):1208–15

Sympathetic cardioneuropathy in dysautonomias [see comments] Goldstein DS, et al. **N Engl J Med** 1997 Mar 6;336(10):696–702. Comment in: N Engl J Med 1997 Mar 6;336(10):721–4. Comment in: N Engl J Med 1997 Jul 24;337(4):278–80.

Presynaptic alpha 2-autoreceptors in mouse heart atria: evidence for the alpha 2D subtype. Wahl CA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug-Sep; 354(3):253–61

Ambulatory long-term jejunal manometry in diabetic patients with cardiac autonomic neuropathy. Hackelsberger N, et al. **Neurogastroenterol Motil** 1997 Jun;9(2):77–83

Heme oxygenase-2 and nitric oxide synthase in guinea-pig intracardiac neurones. Hassall CJ, et al. **Neuroreport** 1997 Mar 3;8(4):1043–6

Decreased heart rate by acupuncture stimulation in humans via facilitation of cardiac vagal activity and suppression of cardiac sympathetic nerve. Nishijo K, et al. **Neurosci Lett** 1997 May 23;227(3):165–8

A- and C-reflexes elicited in cardiac sympathetic nerves by single shock to a somatic afferent nerve include spinal and supraspinal components in anesthetized rats. Kimura A, et al. **Neurosci Res** 1996 May;25(1):91–6

Evaluation of (-)[18F]fluoroethoxybenzovesamicol as a new PET tracer of cholinergic neurons of the heart. DeGrado TR, et al. **Nucl Med Biol** 1994 Feb;21(2):189–95

76Br-MBBG, a PET radiotracer to investigate the norepinephrine neurological and vesicular transproters in the heart. Maziere B, et al. **Nucl Med Biol** 1995 Nov; 22(8):1049–52

Some new methods for the synthesis of cardiac neurotransmission PET radiotracers. Någren K, et al. **Nucl Med Biol** 1995 Nov;22(8):1037–43 (21 ref.)

Mechanism-based strategies for mapping heart sympathetic nerve function. Raffel DM, et al. **Nucl Med Biol** 1995 Nov; 22(8):1019–26 (45 ref.)

Relevance of PET/SPET tracers for cardiac neurotransmission. Voipio-Pulkki LM. **Nucl Med Biol** 1995 Nov;22(8):1027–35 (68 ref.)

Cardiac autonomic nervous system activity in obese and never-obese young men. Arrone LJ, et al. **Obes Res** 1997 Jul;5(4):354–9

PR interval adaptation in the denervated transplanted heart. Koller-Strametz J, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1247-51

Heart rate variability after cardiac transplantation in humans. Ramaekers D, et al. **Pacing Clin Electrophysiol** 1996 Dec; 19(12 Pt 1):2112-9

Effects of cardiac vagal afferent electrostimulation on the responses of trigeminal and trigeminothalamic neurons to noxious orofacial stimulation. Bossut DF, et al. **Pain** 1996 Apr;65(1):101-9

Abnormal cardiac sensory innervation associated with experimentally induced, electrocardiographic long QT intervals in chick embryos. Harrison TA, et al. **Pediatr Res** 1996 Jan;39(1):90-7

Age-related effects of cardiac sympathetic denervation on the responses to cardiopulmonary receptor stimulation in piglets. Tong S, et al. **Pediatr Res** 1997 Jan;41(1):72-7

Effects of cromakalim, pinacidil and glibenclamide on cholinergic transmission in rat isolated atria. Fabiani ME, et al. **Pharmacol Res** 1995 Sep;32(3):155-63

Long-term inhibition of NO synthase induces cardiac hypertrophy with a decrease in adrenergic innervation. Gerová M, et al. **Physiol Res** 1996;45(4):339-44

Relationship of emotional behaviors induced by electrical stimulation of the hypothalamus to changes in EKG, heart, stomach, adrenal glands, and thymus. Kojima K, et al. **Psychosom Med** 1996 Jul-Aug;58(4):383-91

Regional sympathetic denervation after myocardial infarction: a follow-up study using [123I]MIBG. Podio V, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):40-3

Topographic relationship of neurotensin-containing axon terminals with cardiac and noncardiac principal ganglion cells in the stellate ganglia of the cat. Carbó R, et al. **Synapse** 1997 Mar;25(3):277-84

Is cardiac reinnervation in heart transplant recipients functionally significant? Insight from studies of diurnal blood pressure variability and cardiac mass. Jenkins GH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):571

Incidence and functional significance of sympathetic reinnervation after cardiac transplantation. Parry DS, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):569-70

Neurophysiological aspects of angina pectoris. Sylvén C. **Z Kardiol** 1997;86 Suppl 1:95-105 (80 ref.)

[Interactions of adenosine with sympathetic neurotransmission in the heart] Ungerer M, et al. **Z Kardiol** 1996;85 Suppl 6:171-5 (33 ref.) (Eng. Abstr.) **(Ger)**

[Myocardial adrenergic nerve activity in valvular diseases assessed by iodine-123-metaiodobenzylguanidine myocardial scintigraphy] Imamura Y, et al. **J Cardiol** 1997; 29 Suppl 2:21-6 (Eng. Abstr.) **(Jpn)**

[Evaluation of myocardial sympathetic nerve function in patients with mitral valve prolapse using iodine-123-metaiodobenzylguanidine myocardial scintigraphy] Kishi F, et al. **J Cardiol** 1996;27 Suppl 2:21-8; discussion 29-30 (Eng. Abstr.) **(Jpn)**

[Myocardial sympathetic activity and characteristics in hypertrophic cardiomyopathy: comparison with hypertensive hypertrophy] Narita M, et al. **J Cardiol** 1996 Mar;27(3):133-41 (Eng. Abstr.) **(Jpn)**

[The sympathetic innervation of the myocardium and its damage in acute massive pulmonary embolism] Mishnev OD, et al. **Arkh Patol** 1996 Nov-Dec;58(6):55-9 (Eng. Abstr.) **(Rus)**

[The role of heart autonomic nerves in the mechanism of antiarrhythmic effect of beta-endorphin during experimental myocardial ischemia] Mikhaĭlova SD, et al. **Biull Eksp Biol Med** 1997 May;123(5):509-11 **(Rus)**

[Central K1-opiate receptors and mechanisms of arrhythmogenesis] Ugdyzhekova DS, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):656-8 **(Rus)**

[Age-related vagal regulation features of chronotropic heart function in sympathectomized and intact rats] Zefirov TL, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):703-6 **(Rus)**

[Innervation of internal organs by stellate ganglion neurons in the cat] Fateev MM, et al. **Dokl Akad Nauk** 1996 May; 348(1):122-3 **(Rus)**

[The components of the negative chronotropic effect of the vagus nerve on the heart and a method for their definition] Sheĭkh-Zade IuR, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct-Nov;82(10-11):58-63 (Eng. Abstr.) **(Rus)**

[The analysis of R-R intervals variability in assessment of autonomic regulation of cardiac rhythm (review of some data reported at the XVII and XVIII Congresses of European Cardiology Society)] Stepura OB, et al. **Klin Med (Mosk)** 1997;75(4):57-9 **(Rus)**

[Autonomic regulation of cardiac activity in patients with ischemic heart disease and neurocirculatory dystonia: asymmetry of cardiac rhythmograms] Drozdov DV, et al. **Patol Fiziol Eksp Ter** 1997 Jul-Sep;(3):5-8 (Eng. Abstr.) **(Rus)**

[Patterns and the role of changes in the sympathetic and parasympathetic regulation of the heart in local ischemia and reperfusion] Litvitskiĭ PF. **Patol Fiziol Eksp Ter** 1997 Apr-Jun;(2):13-8 (Eng. Abstr.) **(Rus)**

[Examination of vagus nerve tonus in various animal species] Smirnov VM. **Vestn Ross Akad Med Nauk** 1997;(8):24-8 (Eng. Abstr.) **(Rus)**

METABOLISM see MYOCARDIUM/metabolism

MICROBIOLOGY

Cardiac Whipple disease: identification of Whipple bacillus by electron microscopy of a patient before death. Silvestry FE, et al. **Ann Intern Med** 1997 Feb 1;126(3):214-6

PARASITOLOGY

Disseminated microsporidiosis especially infecting the brain, heart, and kidneys. Report of a newly recognized pansporoblastic species in two symptomatic AIDS patients. Yachnis AT, et al. **Am J Clin Pathol** 1996 Oct;106(4):535-43

Detection of Trypanosoma cruzi with the polymerase chain reaction and in situ hybridization in infected murine cardiac tissue. Lane JE, et al. **Am J Trop Med Hyg** 1997 Jun; 56(6):588-95 (36 ref.)

Antibody responses measured by various serologic tests in pigs orally inoculated with low numbers of Toxoplasma gondii oocysts. Dubey JP, et al. **Am J Vet Res** 1996 Dec; 57(12):1733-7

Cardiac echinococcosis--a rare echocardiographic diagnosis. Siwach SB, et al. **Heart** 1997 Apr;77(4):378-9

Antibodies from Trypanosoma cruzi infected mice recognize the second extracellular loop of the beta 1-adrenergic and M2-muscarinic receptors and regulate calcium channels in isolated cardiomyocytes. Mijares A, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:107-12

Collagen cross-reactive antigen of Sarcocystis cruzi. Inoue N, et al. **Vet Parasitol** 1996 May;63(1-2):17-23

PATHOLOGY see MYOCARDIUM/pathology

PHYSIOLOGY

Cardiopulmonary interactions. Hiesmayr M, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:44-5

Anatomical architecture and electrical activity of the heart. Taccardi B, et al. **Acta Cardiol** 1997;52(2):91-105 (40 ref.)

Segmental flexibility of cardiac myosins. Belágyi J, et al. **Acta Physiol Hung** 1995;83(4):373-87

Comparison of the effects of restacorin and flecainide on various cardiac transmembrane potassium currents. Németh M, et al. **Acta Physiol Hung** 1996;84(3):317-8

Echocardiographic estimates related to various body size measures in athletes. Paylik G, et al. **Acta Physiol Hung** 1996;84(2):171-81

The energetics of the quiescent heart muscle: high potassium cardioplegic solution and the influence of calcium and hypoxia on the rat heart. Marquez MT, et al. **Acta Physiol Scand** 1997 Jul;160(3):229-33

Electrical restitution in rat ventricular muscle. Nanasi PP, et al. **Acta Physiol Scand** 1996 Oct;158(2):143-53

Central command increases cardiac output during static exercise in humans. Williamson JW, et al. **Acta Physiol Scand** 1996 Apr;156(4):429-34

Microscopic analysis of the elastic properties of connectin/titin and nebulin in myofibrils. Ishiwata S, et al. **Adv Biophys** 1996;33:135-42 (23 ref.)

Titin/connectin and nebulin: giant protein rulers of muscle structure and function. Wang K. **Adv Biophys** 1996; 33:123-34 (84 ref.)

Modulation of Ca2+ and Na+ transport by taurine in heart and vascular smooth muscle. Bkaily G, et al. **Adv Exp Med Biol** 1996;403:263-73

Atrial receptors and heart volumes. Linden RJ. **Adv Exp Med Biol** 1995;381:125-34 (52 ref.)

Inotropic interventions in the assessment of myocardial failure associated with taurine deficiency in domestic cats. Novotny MJ, et al. **Adv Exp Med Biol** 1996;403:305-14

Electrophysiological and electropharmological actions of taurine on cardiac cells. Satoh H. **Adv Exp Med Biol** 1996; 403:285-96

Some actions of taurine on ionic currents of myocardial cells and myometrial cells. Sperelakis N, et al. **Adv Exp Med Biol** 1996;403:275-84 (18 ref.)

Apoptosis in the heart. Umansky SR, et al. **Adv Pharmacol** 1997;41:383-407 (85 ref.)

Apoptosis of skeletal and cardiac muscles and physical exercise. Carraro U, et al. **Aging (Milano)** 1997 Feb-Apr; 9(1-2):19-34 (118 ref.)

Quantitative evaluation of the segmental left ventricular response to dobutamine stress by tissue Doppler echocardiography. Katz WE, et al. **Am J Cardiol** 1997 Apr 15;79(8):1036-42

Effect of varying pacing waveform shapes on propagation and hemodynamics in the rabbit heart. Thakor NV, et al. **Am J Cardiol** 1997 Mar 20;79(6A):36-43

Intra-aortic balloon counterpulsation timing [see comments] Cadwell CA, et al. **Am J Crit Care** 1996 Jul;5(4):254-61; quiz 262-3. Comment in: Am J Crit Care 1997 Jan;6(1):82-4.

Intra-aortic balloon counterpulsation timing [letter; comment] Cordon L. **Am J Crit Care** 1997 Jan;6(1):82-4 . Comment on: Am J Crit Care 1996 Jul;5(4):254-61; quiz 262-3.

Myoglobin enhances cardiac performance in antarctic icefish species that express the protein. Acierno R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R100-6

Cardiac performance in relation to oxygen supply varies with dietary lipid composition in sturgeon. Agnisola C, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):R417-25

Control of oxidative metabolism in volume-overloaded rat hearts: effect of propionyl-L-carnitine. El Alaoui-Talibi Z, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1615-24

Histamine-sensitive intrinsic cardiac and intrathoracic extracardiac neurons influence cardiodynamics. Armour JA. **Am J Physiol** 1996 Apr;270(4 Pt 2):R906-13

Interrelating of ventricular pressure and intracellular calcium in intact hearts. Baran D, et al. **Am J Physiol** 1997 Sep; 273(3 Pt 2):H1509-22

Basis of passive tension and stiffness in isolated rabbit myofibrils. Bartoo ML, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C266-76

Contribution of ATP to oxidative stress-induced changes in action potential of isolated cardiac myocytes. Bhatnagar A. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1598-608

Beta-blockade reduces effects of adenosine and carbachol by transregulation of inhibitory receptors and Gi proteins. Borst MM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1672-9

Ca2+ transients in embryonic chick heart: contributions from Ca2+ channels and the sarcoplasmic reticulum. Brotto MA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H518-25

Glutathione causes coronary vasodilation via a nitric oxide- and soluble guanylate cyclase-dependent mechanism. Cheung PY, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1231-8

Stable expression of a human HSP70 gene in a rat myogenic cell line confers protection against endotoxin. Chi SH, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1017-21

Physiological assessment of complex cardiac phenotypes in genetically engineered mice. Christensen G, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2513-24 (106 ref.)

Ca2+ permeation through Na+ channels in guinea pig ventricular myocytes. Cole WC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H128-37

Nitric oxide does not modulate myocardial contractility acutely in in situ canine hearts. Crystal GJ, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1568-76

Elevated heart rate variability in physically active postmenopausal women: a cardioprotective effect? Davy KP, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H455-60

Regulation of adult cardiocyte growth: effects of active and passive mechanical loading. Decker ML, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2902-18

Daily exercise attenuates the sympathetic nerve response to exercise by enhancing cardiac afferents. DiCarlo SE, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1606-10

Stimulation of dog RVLM and A5 area changes sympathetic outflow to vascular beds without effect on the heart. Dickerson LW, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R821-39

Thyroid status and regulation of intracellular sodium in rabbit heart. Doohan MM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1589-97

Cardiac swelling-induced chloride current depolarizes canine atrial myocytes. Du XY, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1904-16

Actions of sulfhydryl reagents on single ryanodine receptor Ca(2+)-release channels from sheep myocardium. Eager KR, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1908-18

Mechanism of atrioventricular nodal facilitation in the rabbit heart: role of the distal AV node. Fahy GJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2815-25

A treadmill exercise regimen for identifying cardiovascular phenotypes in transgenic mice. Fewell JG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1595-605

Regulation of SERCA 2 expression by thyroid hormone in cultured chick embryo cardiomyocytes. Fisher DJ, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H638-44

Cardiac electrophysiological variables in blood-perfused and buffer-perfused, isolated, working rabbit heart. Gillis AM, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H784-9

Annexin VI overexpression targeted to heart alters cardiomyocyte function in transgenic mice. Gunteski-Hamblin AM, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1091-100

Impact of aging on adenosine levels, A1/A2 responses, arrhythmogenesis, and energy metabolism in rat heart. Headrick JP. **Am J Physiol** 1996 Mar;270(3 Pt 2):H897-906

ANP protects against reoxygenation-induced hypercontracture in adult cardiomyocytes. Hempel A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H244-9

Effects of contraction, perfusion pressure, and length on intramyocardial pressure in rat papillary muscle. Heslinga JW, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2320-6

Inhibition by external Cd2+ of Na/Ca exchange and L-type Ca channel in rabbit ventricular myocytes. Hobai IA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2164-72

Calcium handling by sarcoplasmic reticulum of neonatal swine cardiac myocytes. Hohl CM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H192-9

ANG II modifies cardiomyocyte function via extracardiac and intracardiac neurons: in situ and in vitro studies. Horackova M, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R766-75

Electrode for recording direction of activation, conduction velocity, and monophasic action potential of myocardium. Horner SM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1917-27

Regional myocardial effects of intracoronary bradykinin in conscious dogs. Houel R, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 2):H1266-74

Meandering and unstable reentrant wave fronts induced by acetylcholine in isolated canine right atrium. Ikeda T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H356-70

Preconditioning cultured human pediatric myocytes requires adenosine and protein kinase C. Ikonomidis JS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1220–30

Uncontrolled sarcomere shortening increases intracellular Ca2+ transient in rat cardiac trabeculae. Janssen PM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1892–7

Ca2+ handling by rat myocardium exposed to ATP solutions of different [Ca2+] and Ca2+ buffering capacity. Kabbara AA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1347–57

The need to account for residual strains and composite nature of heart wall in mechanical analyses. Kang T, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H947–61

Electrophysiological–anatomic correlates of ATP–triggered vagal reflex in the dog. IV. Role of LV vagal afferents. Katchanov G, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1898–903

Interstitial norepinephrine level by cardiac microdialysis correlates with ventricular contractility. Kawada T, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1107–12

Age–dependent augmentation of cardiac endothelial NOS in a genetic rat model of heart failure. Khadour FH, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1223–30

Estimation of cardiorespiratory transfer under spontaneous breathing conditions: a theoretical study. Kim TS, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H1012–23

Cardiac inducible nitric oxide synthase negatively modulates myocardial function in cultured rat myocytes. Kinugawa KI, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H35–47

Properties of three COOH–terminal splice variants of a human cardiac L–type Ca2+–channel alpha1–subunit. Klöckner U, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1372–81

Alterations in ATP–sensitive potassium channel sensitivity to ATP in failing human hearts. Koumi SI, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1656–65

Bursting behavior during fixed–delay stimulation of spontaneously beating chick heart cell aggregates. Kunysz AM, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):C331–46

Effect of cellular inhomogeneity on cardiac tissue mechanics based on intracellular control mechanisms. Landesberg A, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1101–14

Role of passive electrical properties during action potential restitution in intact heart. Laurita KR, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1205–14

An equibiaxial strain system for cultured cells. Lee AA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1400–8

Effects of adenosine and protein kinase C stimulation on mechanical properties of rat cardiac myocytes. Lester JW, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1778–85

Chronic heat improves mechanical and metabolic response of trained rat heart on ischemia and reperfusion. Levy E, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2085–94

Catalase–overexpressing transgenic mouse heart is resistant to ischemia–reperfusion injury. Li G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1090–5

Cardiac transient outward potassium current: a pulse chemistry model of frequency–dependent properties. Liu L, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H386–97

Hodgkin–Huxley and partially coupled inactivation models yield different voltage dependence of block. Liu S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H2013–22

Measurement of intraventricular pressure and cardiac performance in the intact closed–chest anesthetized mouse. Lorenz JN, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1137–46

Relationship of the fourth heart sound to atrial systolic transmitral flow deceleration. McGuire AM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1527–36

Microstructural model of perimysial collagen fibers for resting myocardial mechanics during ventricular filling. MacKenna DA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1576–86

Postischemic cardiac performance in the insulin–resistant JCR:LA–cp rat. Maddaford TG, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1187–92

Influence of stimulation frequency on [Na+]i and contractile function in Langendorff–perfused rat heart. Maier LS, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1246–54

pH dependence of myosin binding–induced activation of the thin filament in cardiac myocytes and skeletal fibers. Metzger JM. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1008–14

Role of excitatory amino acid receptors in cardiorespiratory coupling in ventrolateral medulla. Miyawaki T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1221–30

Role of AMPA/kainate receptors in transmission of the sympathetic baroreflex in rat CVLM. Miyawaki T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R800–12

Endurance training does not affect intrinsic calcium current characteristics in rat myocardium. Mokelke EA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1193–7

Mitochondrial calcium content in isolated perfused heart: effects of inotropic stimulation. Moravec CS, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1432–9

Modulation of SERCA2 expression by thyroid hormone and norepinephrine in cardiocytes: role of contractility. Muller A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1876–85

Alpha 1–adrenoceptor subtypes mediating inotropic and electrophysiological effects in mammalian myocardium. Nagashima M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1423–32

Mechanoenergetics of negative inotropism of ventricular wall vibration in dog heart. Nishioka T, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H583–93

Response of Ca(2+)–loaded, depolarized guinea pig myocytes to critically timed premature stimulations. Nordin C. **Am J Physiol** 1996 Feb;270(2 Pt 2):H447–65

Computer model of electrophysiological instability in very small heterogeneous ventricular syncytia. Nordin C. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1838–56

Nitric oxide inhibits neutrophil adhesion to cytokine–activated cardiac myocytes. Ohashi Y, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2807–14

Development of heart rate power spectra reveals neonatal peculiarities of cardiorespiratory control. Patzak A, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1025–32

Induction of cardiac natriuretic peptide gene expression in rats trained in hypobaric hypoxic conditions. Perhonen M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R344–52

Effects of relaxin on rat atrial myocytes. I. Inhibition of I(to) via PKA–dependent phosphorylation. Piedras–Renteria ES, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1791–7

Effects of relaxin on rat atrial myocytes. II. Increased calcium influx derived from action potential prolongation. Piedras–Renteria ES, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1798–803

Contributions of the specialized conduction system to the activation sequence in the canine pulmonary conus. Pollard AE, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H446–63

Myosin heavy chain gene expression in neonatal rat heart cells: effects of [Ca2+]i and contractile activity. Qi M, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C394–403

Cardiac function in genetically engineered mice with altered adrenergic receptor signaling. Rockman HA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1553–9 (46 ref.)

Structural and biochemical analyses of cardiac ventricular enlargement in cold–acclimated striped bass. Rodnick KJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R252–8

Xanthine affects [Ca2+]i and contractile responses of ventricular cardiocytes to electrical stimulation. Rohn TT, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):C909–17

Mechanical workload–myocardial water content relationship in isolated rat hearts. Schertel ER, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H271–8

Peroxynitrite impairs cardiac contractile function by decreasing cardiac efficiency. Schulz R, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1212–9

Ontogeny of the arterial and cardiopulmonary baroreflex during fetal and postnatal life. Segar JL. **Am J Physiol** 1997 Aug;273(2 Pt 2):R457–71 (148 ref.)

Phase dependencies of the human baroreceptor reflex. Seidel H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H2040–53

Mechanical forces regulate focal adhesion and costamere assembly in cardiac myocytes. Sharp WW, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H546–56

Capacitive function of the heart: influence of acute changes in heart volume on mean right atrial pressure. Sheriff DD, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H553–8

Coronary artery resistance changes depend on how surrounding myocardial tissue is stretched. Sipkema P, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H924–34

Endothelin and nitric oxide interact to regulate stretch–induced ANP secretion. Skvorak JP, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R301–6

Aortic distensibility and compliance in conscious pregnant rats. Slangen BF, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1260–5

Cardiac autonomic control is inversely related to blood pressure variability responses to psychological challenge. Sloan RP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2227–32

Electrophysiological and functional effects of adenosine on ventricular myocytes of various mammalian species. Song Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1233–43

Cardiomyocyte DNA synthesis and binucleation during murine development. Soonpaa MH, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2183–9

Function and bioenergetics in isolated perfused trained rat hearts. Spencer RG, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H409–17

Exercise training enhances cardiac function in response to an afterload stress in older men. Spina RJ, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H995–1000

Effects of sevoflurane on inward rectifier K+ current in guinea pig ventricular cardiomyocytes. Stadnicka A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H324–32

A novel cardioprotective function of adenosine A1 and A3 receptors during prolonged simulated ischemia. Stambaugh K, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H501–5

K+ATP channels and adenosine are not necessary for coronary autoregulation. Stepp DW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1299–308

Validation of different methods to compare isovolumic cardiac function in isolated hearts of varying sizes. Strömer H, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H501–10

Mechanisms of inactivation of L–type calcium channels in human atrial myocytes. Sun H, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1625–35

A comprehensive model for right–left heart interaction under the influence of pericardium and baroreflex. Sun Y, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1499–515

Slowing of carotid–cardiac baroreflex with standing and with isometric and dynamic muscle activity. Sundblad P, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1363–9

Perforated patch–clamp recording in cardiac myocytes using cation–selective ionophore gramicidin. Tajima Y, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C524–32

Development of muscarinic potassium current in fetal and neonatal rat heart. Takano M, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1188–95

Energetic basis for reduced contractile reserve in isolated rat hearts. Tian R, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1207–16

Contribution of a swelling–activated chloride current to changes in the cardiac action potential. Vandenberg JI, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C541–7

Reversible blockade of gap junctional communication by 2,3–butanedione monoxime in rat cardiac myocytes. Verrecchia F, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):C875–85

Effect of ventricular contraction, pressure, and wall stretch on vessels at different locations in the wall. Vis MA, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2963–75

Modeling pressure–flow relations in cardiac muscle in diastole and systole. Vis MA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1516–26

Inhibition of the voltage–dependent calcium current by extracellular ATP in hamster ventricular cardiomyocytes. Von zur Mühlen F, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H250–6

Modulation of propagation from an ectopic focus by electrical load and by extracellular potassium. Wagner MB, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1759–69

Magnesium shifts voltage dependence of activation of delayed rectifier I(K) in guinea pig ventricular myocytes. Williams BA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1292–301

Constancy and variability of contractile efficiency as a function of calcium and cross–bridge kinetics: simulation. Yamaguchi H, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1501–8

Regulation of NHE–1 promoter in mammalian myocardium. Yang W, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H259–66

Mechanism of enhancement of slow delayed rectifier current by extracellular sulfhydryl modification. Yao JA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H208–19

Endothelin–1 ameliorates contractile depression by lipopolysaccharide in cardiac myocytes. Yasuda S, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1403–7

Transient outward current contributes to Wenckebach–like rhythms in isolated rabbit ventricular cells. Yehia AR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H1–11

Compressibility of perfused passive myocardium. Yin FC, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1864–70

Myocardial bioenergetics during acute hibernation. Zhang J, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1452–63

Localized cAMP–dependent signaling mediates beta 2–adrenergic modulation of cardiac excitation–contraction coupling. Zhou YY, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1611–8

Ito1 dictates behavior of ICl(Ca) during early repolarization of canine ventricle. Zygmunt AC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1096–106

Tris–hydroxymethyl aminomethane and sodium bicarbonate to buffer metabolic acidosis in an isolated heart model. Sirieix D, et al. **Am J Respir Crit Care Med** 1997 Mar; 155(3):957–63

Cardiac electrophysiologic measurements in dogs before and after intravenous administration of atropine and propranolol. Wright KN, et al. **Am J Vet Res** 1996 Dec; 57(12):1695–701

Voltage–dependent effects of volatile anesthetics on cardiac sodium current. Weigt HU, et al. **Anesth Analg** 1997 Feb; 84(2):285–93

Effect of intravenous anesthetics on inward rectifier potassium current in rat and human ventricular myocytes. Carnes CA, et al. **Anesthesiology** 1997 Aug;87(2):327–34

Lack of inhibition by inhalational anesthetics of myocardial contraction dependent on intracellular sodium activity. Komai H, et al. **Anesthesiology** 1996 Nov;85(5):1139–46

Mesh updating in fluid–structure interactions in biomechanics: an iterative method based on an uncoupled approach. Dubini G, et al. **Ann Biomed Eng** 1997 Jan–Feb; 25(1):218–31

Effect of a perfusing bath on the rate of rise of an action potential propagating through a slab of cardiac tissue. Roth BJ. **Ann Biomed Eng** 1996 Nov–Dec;24(6):639–46

A computer–controlled aortic and mitral valve occluder. Solomon SB, et al. **Ann Biomed Eng** 1997 Jan–Feb; 25(1):172–9

Interactions between adjacent fibers in a cardiac muscle bundle. Wang S, et al. **Ann Biomed Eng** 1996 Nov–Dec; 24(6):662–74

Vagal reactivity and affective adjustment in infants. Convergent response systems. Bazhenova OV, et al. **Ann N Y Acad Sci** 1997 Jan 15;807:469–71

Analysis of cardiovascular responses to PACAP–27, PACAP–38, and vasoactive intestinal polypeptide. Champion HC, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:429–41; discussion 442

Cardiac chloride channels: incremental regulation by phosphorylation/dephosphorylation. Gadsby DC, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:259–74

Myocardial protection in the elderly. Biology of the senescent heart. McCully JD, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:305–18 (51 ref.)

Serotonergic and cardiac correlates of aggression in children.

Pine DS, et al. **Ann N Y Acad Sci** 1996 Sep 20;794:391–3

Cyclic AMP–dependent phosphorylation and regulation of the cardiac dihydropyridine–sensitive Ca channel. Yoshida A, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:365–7

Functional imaging of gated Tc–99m tetrofosmin study as a simple method to quantify ventricular wall motion. Nakajima K, et al. **Ann Nucl Med** 1997 May;11(2):87–94

Cardioplegia preserves hypoxic response in isolated coronary arteries but not in isolated hearts. Barbé CC, et al. **Ann Thorac Surg** 1997 May;63(5):1303–8

Cardiorespiratory response to progressive leg exercise under acute normobaric hypoxia. Zattara–Hartmann MC, et al. **Arch Physiol Biochem** 1996;104(3):272–81

Spatio–temporal reasoning for multi–scale modeling in cardiology. Siregar P, et al. **Artif Intell Med** 1997 May; 10(1):41–57

The electrocardiogram of the Pekin duck. Cinar A, et al. **Avian Dis** 1996 Oct–Dec;40(4):919–23

G–induced myocardium functional alterations are not related to structural changes in rat heart. Tran CC, et al. **Aviat Space Environ Med** 1996 Dec;67(12):1170–3

Bioenergetic effects of repeated +Gz acceleration on rat heart: a 31P–NMR study on isolated hearts. Tran CC, et al. **Aviat Space Environ Med** 1996 Feb;67(2):146–52

Systolic coronary flow reduction in the canine heart in situ: effects of left ventricular pressure and elastance. Baan J Jr, et al. **Basic Res Cardiol** 1996 Nov–Dec;91(6):468–78

Myocardial electrophysiological properties in the presence of an AT1 angiotensin II receptor antagonist. Cox MH, et al. **Basic Res Cardiol** 1997 Jun;92(3):129–38

Regulation of myocardial calcium channels by cyclic AMP metabolism. Hove–Madsen L, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:1–8 (90 ref.)

Inhibition of cloned human L–type cardiac calcium channels by 2,3–butanedione monoxime does not require PKA–dependent phosphorylation sites. Eisfeld J, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):489–92

Calcium waves in unstimulated left ventricular cardiomyocytes isolated from aged spontaneously hypertensive and normotensive rats. Failli P, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):103–6

Simultaneous measurement of intracellular calcium and ventricular function in the phospholamban–deficient mouse heart. Hampton TG, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):836–41

Is there the creatine kinase equilibrium in working heart cells? Saks VA, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):360–7

Characterization of AT–1 cardiomyocytes as a model for studies of T3 effects on cardiac cells. Shahrara S, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):303–6

Differential effects of steroids on vascular tone and smooth muscle cell Ca(2+)–homeostasis. Ruehlmann DO, et al. **Biochem Soc Trans** 1997 Feb;25(1):112S

Connexins in mammalian heart function. Gros DB, et al. **Bioessays** 1996 Sep;18(9):719–30 (70 ref.)

Cardiac rhythm effects of .125–Hz paced breathing through a resistive load: implications for paced breathing therapy and the polyvagal theory. Sargunaraj D, et al. **Biofeedback Self Regul** 1996 Jun;21(2):131–47

On Hebbian–like adaptation in heart muscle: a proposal for 'cardiac memory'. Chakravarthy SV, et al. **Biol Cybern** 1997 Mar;76(3):207–15

A terminal dynamics model of the heartbeat. Zbilut JP, et al. **Biol Cybern** 1996 Sep;75(3):277–80

Illusions, arithmetic, and the bidirectional modulation of vagal control of the heart. Berntson GG, et al. **Biol Psychol** 1996 Sep 27;44(1):1–17

Covariation of phasic cortical and cardiovascular responses in a detection task. van der Veen FM, et al. **Biol Psychol** 1996 Oct 31;44(2):105–20

Hand–held, dynamic indentation system for measuring myocardial transverse stiffness. Blair DM, et al. **Biomed Instrum Technol** 1996 Nov–Dec;30(6):517–25

Method for assessing cardiac function using magnetic resonance imaging. Soldo SJ, et al. **Biomed Instrum Technol** 1996 Jul–Aug;30(4):359–63

Increased work in cardiac trabeculae causes decreased mitochondrial NADH fluorescence followed by slow recovery. Brandes R, et al. **Biophys J** 1996 Aug; 71(2):1024–35

Rate constant of muscle force redevelopment reflects cooperative activation as well as cross–bridge kinetics. Campbell K. **Biophys J** 1997 Jan;72(1):254–62

Numerical analysis of ryanodine receptor activation by L–type channel activity in the cardiac muscle diad. Cannell MB, et al. **Biophys J** 1997 Jul;73(1):112–22

Permeation through the calcium release channel of cardiac muscle. Chen D, et al. **Biophys J** 1997 Sep;73(3):1337–54

Heterogeneity of Ca2+ gating of skeletal muscle and cardiac ryanodine receptors. Copello JA, et al. **Biophys J** 1997 Jul; 73(1):141–56

The S5–S6 linker of repeat I is a critical determinant of L–type Ca2+ channel conductance. Dirksen RT, et al. **Biophys J** 1997 Sep;73(3):1402–9

Na+,K(+)-ATPase pump currents in giant excised patches activated by an ATP concentration jump. Friedrich T, et al. **Biophys J** 1996 Nov;71(5):2486–500

Chloride–dependent sarcoplasmic reticulum Ca2+ release correlates with increased Ca2+ activation of ryanodine receptors. Fruen BR, et al. **Biophys J** 1996 Nov; 71(5):2522–30

Structural and functional reconstitution of thin filaments in the contractile apparatus of cardiac muscle. Fujita H, et al. **Biophys J** 1996 Nov;71(5):2307–18

Unitary cardiac Na+, Ca2+ exchange current magnitudes determined from channel–like noise and charge movements of ion transport. Hilgemann DW. **Biophys J** 1996 Aug; 71(2):759–68

Response of cardiac myocytes to a ramp increase of diacylglycerol generated by photolysis of a novel caged diacylglycerol. Huang XP, et al. **Biophys J** 1996 May; 70(5):2448–57

A biophysical model for defibrillation of cardiac tissue. Keener JP, et al. **Biophys J** 1996 Sep;71(3):1335–45

Surface potentials measure ion concentrations near lipid bilayers during rapid solution changes. Laver DR, et al. **Biophys J** 1996 Aug;71(2):722–31

Response of ryanodine receptor channels to Ca2+ steps produced by rapid solution exchange. Laver DR, et al. **Biophys J** 1996 Aug;71(2):732–41

Actin–titin interaction in cardiac myofibrils: probing a physiological role. Linke WA, et al. **Biophys J** 1997 Aug; 73(2):905–19

A generalized activating function for predicting virtual electrodes in cardiac tissue. Sobie EA, et al. **Biophys J** 1997 Sep;73(3):1410–23

Numerical simulation of local calcium movements during L–type calcium channel gating in the cardiac diad. Soeller C, et al. **Biophys J** 1997 Jul;73(1):97–111

Measurements of Ca2+ entry and sarcoplasmic reticulum Ca2+ content during the cardiac cycle in guinea pig and rat ventricular myocytes. Terracciano CM, et al. **Biophys J** 1997 Mar;72(3):1319–26

Electrophysiological effects of ryanodine derivatives on the sheep cardiac sarcoplasmic reticulum calcium–release channel. Tinker A, et al. **Biophys J** 1996 May;70(5):2110–9

Rectification of rabbit cardiac ryanodine receptor current by endogenous polyamines. Uehara A, et al. **Biophys J** 1996 Aug;71(2):769–77

Inner sarcolemmal leaflet Ca(2+) binding: its role in cardiac Na/Ca exchange. Wang SY, et al. **Biophys J** 1996 May; 70(5):2266–74

A quasi–one–dimensional theory for anisotropic propagation of excitation in cardiac muscle. Wu J, et al. **Biophys J** 1996 Nov;71(5):2427–39

Velocity–curvature relationship of colliding spherical calcium waves in rat cardiac myocytes. Wussling MH, et al. **Biophys J** 1997 Sep;73(3):1232–42

Modulation of L–type Ca2+ current by fast and slow Ca2+ buffering in guinea pig ventricular cardiomyocytes. You Y, et al. **Biophys J** 1997 Jan;72(1):175–87

A minimal gating model for the cardiac calcium release channel. Zahradníková A, et al. **Biophys J** 1996 Dec; 71(6):2996–3012

Intra–arterial blood pressure during exercise and left ventricular indices in normotension and borderline and mild hypertension. Majahalme S, et al. **Blood Press** 1997 Jan; 6(1):5–12

Nitric oxide modulation of transcellular biosynthesis of cys–leukotrienes in rabbit leukocyte–perfused heart. Buccellati C, et al. **Br J Pharmacol** 1997 Mar; 120(6):1128–34

Activation of cardiac chloride conductance by the tyrosine kinase inhibitor, genistein. Shuba LM, et al. **Br J Pharmacol** 1996 Sep;119(2):335–45

Effects of an 18 week walking programme on cardiac function in previously sedentary or relatively inactive adults. Woolf–May K, et al. **Br J Sports Med** 1997 Mar; 31(1):48–53

Assessment of electrophysiological state of heart in astronauts in terms of decartographic and conventional electrocardiographic characteristics. Baevskii RM, et al. **Bratisl Lek Listy** 1996 Sep;97(9):516–20

Three–dimensional finite element computer model of the forward problem of electrocardiology. Cábelka S, et al. **Bratisl Lek Listy** 1996 Sep;97(9):550–2

Modelling developmental changes of human cardiac electric field in early postnatal period. Szathmáry V, et al. **Bratisl Lek Listy** 1996 Sep;97(9):567–70

The heart of the icefish: bioconstruction and adaptation. Zummo G, et al. **Braz J Med Biol Res** 1995 Nov–Dec; 28(11–12):1265–76 (40 ref.)

Monitoring cardiac function with transoesophageal echocardiography; esoterica or state of the art? [editorial; comment] Oxorn D, et al. **Can J Anaesth** 1997 Apr; 44(4):345–9. Comment on: Can J Anaesth 1997 Apr;44(4):354–9. **(Eng, Fre)**

The influence of age and cardiorespiratory fitness on kinetics of oxygen uptake. Chilibeck PD, et al. **Can J Appl Physiol** 1996 Jun;21(3):185–96

Heart rate variability at rest and exercise: influence of age, gender, and physical training. Gregoire J, et al. **Can J Appl Physiol** 1996 Dec;21(6):455–70

A method to evaluate the response of the coronary circulation of perfused rat heart to adenosine. Harrison GJ, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):145–9

Functional tissue and developmental specificities of myofibrils and mitochondria in cardiac muscle. Vannier C, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):23–31

Effect of age on stretch–induced secretion of atrial natriuretic factor. Zhang Y, et al. **Can J Physiol Pharmacol** 1996 Feb; 74(2):132–6

The athlete's heart. Historical perspectives--solved and unsolved problems. Rost R. **Cardiol Clin** 1997 Aug; 15(3):493–512

Carbonic anhydrase and the heart. Swenson ER. **Cardiologia** 1997 May;42(5):453–62 (97 ref.)

Diminished myocardial function precedes tissue acidosis during coronary hypoperfusion. Shortt KG, et al. **Cardiology** 1997 Jan–Feb;88(1):14–8

Modification of catecholamine–induced changes in heart function by food restriction in rats. McKnight KA, et al. **Cardiovasc Drugs Ther** 1996 Jun;10 Suppl 1:239–46

Acute and persistent effects of a 46–kilometer wilderness trail run at altitude: cardiovascular autonomic modulation and baroreflexes. Bernardi L, et al. **Cardiovasc Res** 1997 May; 34(2):273–80

A list of vertebrate cardiac ionic currents nomenclature, properties, function and cloned equivalents. Boyett MR, et al. **Cardiovasc Res** 1996 Sep;32(3):455–81 (259 ref.)

Sympathetic influences on electrical and mechanical alternans in the canine heart. Euler DE, et al. **Cardiovasc Res** 1996 Nov;32(5):854–60

Differential effects of chronic membrane depolarization on the K+ channel activities in cultured rat ventricular cells. Guo W, et al. **Cardiovasc Res** 1997 Jan;33(1):139–46

Role of adenosine in the heart and circulation [see comments] Mubagwa K, et al. **Cardiovasc Res** 1996 Nov;32(5):797–813 (191 ref.). Comment in: Cardiovasc Res 1997 Jun;34(3):603–5.

Effect of a high omega–3 fatty acid diet on cardiac contractile performance in Oncorhynchus mykiss. Paige JA, et al. **Cardiovasc Res** 1996 Feb;31(2):249–62

Aortic blood momentum--the more the better for the ejecting heart in vivo? Sugawara M, et al. **Cardiovasc Res** 1997 Feb;33(2):433–46

Electrophysiological and pharmacological correspondence between Kv4.2 current and rat cardiac transient outward current. Yeola SW, et al. **Cardiovasc Res** 1997 Mar; 33(3):540–7

The effects of left ventricular stretch versus cavity pressure on intramyocardial pressure. Yin FC, et al. **Cardiovasc Res** 1997 May;34(2):299–305

Excitation–contraction coupling in heart: new insights from Ca2+ sparks. Cheng H, et al. **Cell Calcium** 1996 Aug; 20(2):129–40 (45 ref.)

Ca2+ sparks and Ca2+ waves activate different Ca(2+)–dependent ion channels in single myocytes from rat portal vein. Mironneau J, et al. **Cell Calcium** 1996 Aug; 20(2):153–60 (25 ref.)

Heterotrimeric G proteins in heart disease. Schnabel P, et al. **Cell Signal** 1996 Sep;8(6):413–23 (126 ref.)

Cardiorespiratory response to exercise after venous switch operation for transposition of the great arteries. Douard H, et al. **Chest** 1997 Jan;111(1):23–9

Esophageal pressure measurements in cardiopulmonary exercise testing. Thomas AM, et al. **Chest** 1997 Sep; 112(3):829–32

Rapamycin inhibits alpha 1–adrenergic receptor–stimulated cardiac myocyte hypertrophy but not activation of hypertrophy–associated genes. Evidence for involvement of p70 S6 kinase. Boluyt MO, et al. **Circ Res** 1997 Aug; 81(2):176–86

Regional localization of ERG, the channel protein responsible for the rapid component of the delayed rectifier, K+ current in the ferret heart. Brahmajothi MV, et al. **Circ Res** 1997 Jul;81(1):128–35

Role of an electrogenic Na(+)–HCO3– cotransport in determining myocardial pHi after an increase in heart rate. Camilión de Hurtado MC, et al. **Circ Res** 1996 Oct; 79(4):698–704

Evidence that outwardly rectifying Cl– channels underlie volume–regulated Cl– currents in heart. Duan D, et al. **Circ Res** 1997 Jan;80(1):103–13

Anisotropic activation spread in heart cell monolayers assessed by high–resolution optical mapping. Role of tissue discontinuities. Fast VG, et al. **Circ Res** 1996 Jul; 79(1):115–27 (49 ref.)

An improved permeabilization protocol for the introduction of peptides into cardiac myocytes. Application to protein kinase C research. Johnson JA, et al. **Circ Res** 1996 Dec; 79(6):1086–99

Hemodynamic regulation of tumor necrosis factor–alpha gene and protein expression in adult feline myocardium. Kapadia SR, et al. **Circ Res** 1997 Aug;81(2):187–95

Line stimulation parallel to myofibers enhances regional uniformity of transmembrane voltage changes in rabbit hearts. Knisley SB, et al. **Circ Res** 1997 Aug;81(2):229–41

Effects of FK–506 on contraction and Ca2+ transients in rat cardiac myocytes. McCall E, et al. **Circ Res** 1996 Dec; 79(6):1110–21

Alterations of Na+ currents in myocytes from epicardial border zone of the infarcted heart. A possible ionic mechanism for reduced excitability and postrepolarization refractoriness. Pu J, et al. **Circ Res** 1997 Jul;81(1):110–9

Emigrated rat neutrophils adhere to cardiac myocytes via alpha 4 integrin. Reinhardt PH, et al. **Circ Res** 1997 Aug; 81(2):196–201

Molecular cloning and characterization of human cardiac homeobox gene CSX1. Shiojima I, et al. **Circ Res** 1996 Nov;79(5):920–9

Inhibitory effects of glibenclamide on cystic fibrosis transmembrane regulator, swelling–activated, and Ca(2+)–activated Cl– channels in mammalian cardiac myocytes. Yamazaki J, et al. **Circ Res** 1997 Jul;81(1):101–9

Rapid inactivation determines the rectification and [K+]o dependence of the rapid component of the delayed rectifier K+ current in cardiac cells. Yang T, et al. **Circ Res** 1997 Jun;80(6):782–9

Conditional transgene expression in the heart. Yu Z, et al. **Circ Res** 1996 Oct;79(4):691–7

Regional differences in electrophysiological properties of epicardium, midmyocardium, and endocardium. In vitro and in vivo correlations. Anyukhovsky EP, et al. **Circulation** 1996 Oct 15;94(8):1981–8

In vivo cardiac electrophysiology studies in the mouse. Berul CI, et al. **Circulation** 1996 Nov 15;94(10):2641–8

Phospholipase D plays a role in ischemic preconditioning in rabbit heart. Cohen MV, et al. **Circulation** 1996 Oct 1; 94(7):1713–8

Modulation of atrioventricular nodal function by metabolic and allosteric regulators of endogenous adenosine in guinea pig heart. Dennis DM, et al. **Circulation** 1996 Nov 15; 94(10):2551–9

A novel method for nonfluoroscopic catheter-based electroanatomical mapping of the heart. In vitro and in vivo accuracy results. Gepstein L, et al. **Circulation** 1997 Mar 18;95(6):1611–22

Video imaging of atrial defibrillation in the sheep heart. Gray RA, et al. **Circulation** 1997 Feb 18;95(4):1038–47

Effects of thyroid hormone on cardiac beta-adrenergic responsiveness in conscious baboons. Hoit BD, et al. **Circulation** 1997 Jul 15;96(2):592–8

Mechanism of action potential prolongation by RP 58866 and its active enantiomer, terikalant. Block of the rapidly activating delayed rectifier K+ current, IKr. Jurkiewicz NK, et al. **Circulation** 1996 Dec 1;94(11):2938–46

Coronary and myocardial blood volumes: noninvasive tools to assess the coronary microcirculation? [editorial; comment] Kaul S, et al. **Circulation** 1997 Aug 5; 96(3):719–24 (45 ref.). Comment on: Circulation 1997 Aug 5;96(3):1004–11.

de modulatione cordis [editorial; comment] Kelly RA, et al. **Circulation** 1996 Nov 15;94(10):2361–3 (20 ref.). Comment on: Circulation 1996 Nov 15;94(10):2626–32.

Chronic hypoxia increases beta 1-adrenergic receptor mRNA and density but not signaling in neonatal rat cardiac myocytes. Li HT, et al. **Circulation** 1996 Dec 15; 94(12):3303–10

Septal function during left ventricular unloading. Moon MR, et al. **Circulation** 1997 Mar 4;95(5):1320–7

Measurement of intracardiac pressures [letter; comment] Nash IS. **Circulation** 1996 Aug 1;94(3):586–7. Comment on: Circulation 1995 Oct 1;92(7):1994–2000.

'Cross talk' between opioid peptide and adrenergic receptor signaling in isolated rat heart. Pepe S, et al. **Circulation** 1997 Apr 15;95(8):2122–9

Avoidance of immune response prolongs expression of genes delivered to the adult rat myocardium by replication-defective adenovirus. Quiñones MJ, et al. **Circulation** 1996 Sep 15;94(6):1394–401

Effects of L-arginine and N omega-nitro-L-arginine methyl ester on cardiac perfusion and function after 1-day cold preservation of isolated hearts. Stowe DF, et al. **Circulation** 1997 Mar 18;95(6):1623–34

Changes in ischemic tolerance and effects of ischemic preconditioning in middle-aged rat hearts. Tani M, et al. **Circulation** 1997 Jun 3;95(11):2559–66

Rapid shortening during relaxation increases activation and improves systolic performance. Watkins MW, et al. **Circulation** 1996 Sep 15;94(6):1475–82

Modulation of atrial repolarization by site of pacing in the isolated rabbit heart. Wood MA, et al. **Circulation** 1996 Sep 15;94(6):1465–70

Evaluation of heart failure patients: objective parameters to assess functional capacity. Mills RM Jr, et al. **Clin Cardiol** 1996 Jun;19(6):455–60 (34 ref.)

Simulation of re-entry in a piece of myocardial tissue: strong sensitivity to spatial and temporal conditions. Wohlfart B, et al. **Clin Physiol** 1996 Jul;16(4):417–31

Transfection of cardiac muscle: effects of overexpression of c-myc and c-fos proto-oncogene proteins in primary cultures of neonatal rat cardiac myocytes. Green NK, et al. **Clin Sci (Colch)** 1997 Feb;92(2):181–8

Cardiac nuclear encoded cytochrome c oxidase subunits are decreased with copper restriction but not iron restriction: gene expression, protein synthesis and heat shock protein aspects. Medeiros DM, et al. **Comp Biochem Physiol A Physiol** 1997 May;117(1):77–87

A comparison of volume conductor effects on body surface Laplacian and potential ECGS: a model study. He B, et al. **Comput Biol Med** 1997 Mar;27(2):117–27

A two-dimensional simulation of the effects of late stimulation on a cardiac action potential. Barach JP. **Comput Biomed Res** 1996 Oct;29(5):373–81

A cellular automata model of the heart and its coupling with a qualitative model. Siregar P, et al. **Comput Biomed Res** 1996 Jun;29(3):222–46

Modeling of cardiac electrophysiological mechanisms: from action potential genesis to its propagation in myocardium. Bardou AL, et al. **Crit Rev Biomed Eng** 1996; 24(2-3):141–221 (113 ref.)

Bioelectrical impedance techniques in medicine. Part III: Impedance imaging. Third section: medical applications. Morucci JP, et al. **Crit Rev Biomed Eng** 1996; 24(4-6):655–77 (108 ref.)

Update on local cardiac renin-angiotensin system. Ruzicka M, et al. **Curr Opin Cardiol** 1997 Jul;12(4):347–53 (30 ref.)

Developmental genetics of the heart. Burn J, et al. **Curr Opin Genet Dev** 1996 Jun;6(3):322–5 (34 ref.)

Myocyte cell death and ventricular remodeling [see comments] Anversa P, et al. **Curr Opin Nephrol Hypertens** 1997 Mar;6(2):169–76 (68 ref.). Comment in: Curr Opin Nephrol Hypertens 1997 Mar;6(2):167–8.

Stress activated cytokines and the heart. Mann DL. **Cytokine Growth Factor Rev** 1996 Dec;7(4):341–54 (126 ref.)

Selective regulation of cardiomyocyte gene expression and cardiac morphogenesis by retinoic acid. Dickman ED, et al. **Dev Dyn** 1996 May;206(1):39–48

Infant regulation of the vagal "brake" predicts child behavior problems: a psychobiological model of social behavior. Porges SW, et al. **Dev Psychobiol** 1996 Dec;29(8):697–712

Age-related changes in cardiac physiology. Can they be postponed or treated by drugs? Svanborg A. **Drugs Aging** 1997 Jun;10(6):463–72 (75 ref.)

Cardiac field effects on the EEG. Dirlich G, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 102(4):307–15

Thyroid hormone controls the expression of insulin-like growth factor I receptor gene at different levels in lung and heart of developing and adult rats. Moreno B, et al. **Endocrinology** 1997 Mar;138(3):1194–203

Acute effects of thyroid hormone on inward rectifier potassium channel currents in guinea pig ventricular myocytes. Sakaguchi Y, et al. **Endocrinology** 1996 Nov; 137(11):4744–51

"Here the heart may give a useful lesson to the head" [editorial] Samson WK. **Endocrinology** 1996 Sep; 137(9):3629–30

Colour flow Doppler echocardiography in normal horses. Blissitt KJ, et al. **Equine Vet J Suppl** 1995 Sep;(19):47–55

Effects of sedation with detomidine hydrochloride on echocardiographic measurements of cardiac dimensions and indices of cardiac function in horses. Patteson MW, et al. **Equine Vet J Suppl** 1995 Sep;(19):33–7

Echocardiographic measurements of cardiac dimensions and indices of cardiac function in normal adult thoroughbred horses. Patteson MW, et al. **Equine Vet J Suppl** 1995 Sep; (19):18–27

Molecular basis of the diversity of calcium channels in cardiovascular tissues. Nargeot J, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A15–26 (67 ref.)

Dynamics of the QT interval during and after exercise in healthy children. Viitasalo M, et al. **Eur Heart J** 1996 Nov; 17(11):1723–8

The functions of two species of calcium channel in cardiac muscle excitation-contraction coupling. Williams AJ. **Eur Heart J** 1997 Jan;18 Suppl A:A27–35 (50 ref.)

Non-invasive assessment of cardiac physiology by tissue Doppler echocardiography. A comparison with invasive haemodynamics. Zamorano J, et al. **Eur Heart J** 1997 Feb; 18(2):330–9

Influence of age and physical training on measures of cardiorespiratory and muscle endurance. Knapik JJ, et al. **Eur J Appl Physiol** 1996;72(5-6):490–5

Differential cardiorespiratory response to combined exercise with different combinations of forearm and calf exercise. Ogita F, et al. **Eur J Appl Physiol** 1996;73(6):511–5

Pre-adaptation, adaptation and de-adaptation to high altitude in humans: cardio-ventilatory and haematological changes. Savourey G, et al. **Eur J Appl Physiol** 1996;73(6):529–35

Effects of single and repeated cognitive tasks on autonomic balance as observed by an analysis of R-R intervals. Takahashi M, et al. **Eur J Appl Physiol** 1996;72(4):316–22

Effect of exercise on tissue anti-oxidant capacity and heart electrical properties in male and female rats. Venditti P, et al. **Eur J Appl Physiol** 1996;74(4):322–9

A simple mathematical model and practical approach for evaluating citric acid cycle fluxes in perfused rat hearts by 13C-NMR and 1H-NMR spectroscopy. Tran-Dinh S, et al. **Eur J Biochem** 1997 Apr 15;245(2):497–504

Cardiac electrophysiological effects of propafenone and its 5-hydroxylated metabolite in the conscious dog. Boucher M, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):171–7

A biphasic response to adenosine in the coronary vasculature of the K(+)-arrested perfused rat heart. Harden FA, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):49–53

Rectal response of cardiac origin in the cat: involvement of nitric oxide and acetylcholine. Koley J, et al. **Eur J Pharmacol** 1997 May 1;325(2-3):181–7

HTK versus UW solution for myocardial protection during moderate hypothermia. Kober IM, et al. **Eur Surg Res** 1997; 29(4):264–72

Maldistribution of multidose blood cardioplegia: pharmacologic intervention to prevent subendocardial hypoperfusion by alpha-adrenergic blockade. Sakakibara Y. **Eur Surg Res** 1997;29(1):20–6

Length-dependent mechanisms in single cardiac cells. White E. **Exp Physiol** 1996 Nov;81(6):885–97 (46 ref.)

The role of endothelins in cardiac function in health and disease. Karmazyn M. **EXS** 1996;76:209–30 (100 ref.)

Nitric oxide: an endogenous cardioprotectant? Pabla R, et al. **EXS** 1996;76:71–85 (57 ref.)

Immunization with recombinant Trypanosoma cruzi ribosomal P2beta protein induces changes in the electrocardiogram of immunized mice. Lopez Bergami P, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):75–85

Cardiac, respiratory, and locomotor coordination during walking in humans. Niizeki K, et al. **Folia Primatol (Basel)** 1996;66(1-4):226–39

Electrophysiology of ion channels of the heart. Ravens U, et al. **Fundam Clin Pharmacol** 1996;10(4):321–8 (28 ref.)

Electrical and mechanical characteristics of the atrium of the whelk Busycon canaliculatum. Huddart H, et al. **Gen Pharmacol** 1996 Oct;27(7):1247–54

Ionic dependency of membrane potential and autorhythmicity in the atrium of the whelk Busycon canaliculatum [published erratum appears in Gen Pharmacol 1996 Oct;27(7):1281] Huddart H, et al. **Gen Pharmacol** 1996 Jul;27(5):819–25

Modulatory mechanisms in the isolated internally perfused ventricle of the whelk Busycon canaliculatum [published erratum appears in Gen Pharmacol 1996 Oct;27(7):1281] Huddart H, et al. **Gen Pharmacol** 1996 Jul;27(5):809–18

Electropharmacology of Ro 22-9194, a new antiarrhythmic agent. Kodama I, et al. **Gen Pharmacol** 1996 Jul; 27(5):755–60 (19 ref.)

Cardiac mechanical and electrophysiologic modulations of guinea-pig by caffeine and thapsigargin. Nario K, et al. **Gen Pharmacol** 1996 Oct;27(7):1227–35

Cardiac electrophysiological effects of levosimendan, a new calcium sensitizer. Virág L, et al. **Gen Pharmacol** 1996 Apr; 27(3):551–6

Three different gating models for inactivation of the Ito in ventricular myocytes of rats and mice. Cseresnyés Z, et al. **Gen Physiol Biophys** 1995 Aug;14(4):259–76

The renin-angiotensin system and the heart: a historical review. Cleland SJ, et al. **Heart** 1996 Nov;76(3 Suppl 3):7–12

The renin-angiotensin system and the heart: beyond 2000. Morgan T, et al. **Heart** 1996 Nov;76(3 Suppl 3):98–103 (42 ref.)

The renin-angiotensin system and the heart [editorial] Nicholls MG, et al. **Heart** 1996 Nov;76(3 Suppl 3):2

Senescent heart compared with pressure overload-induced hypertrophy. Assayag P, et al. **Hypertension** 1997 Jan;29(1 Pt 1):15–21

Epicardial bradykinin B2 receptors elicit a sympathoexcitatory reflex in rats. Veelken R, et al. **Hypertension** 1996 Oct;28(4):615–21

A new method for myocardial activation imaging. Huiskamp G, et al. **IEEE Trans Biomed Eng** 1997 Jun;44(6):433–46

Electrical conductivity values used with the bidomain model of cardiac tissue. Roth BJ. **IEEE Trans Biomed Eng** 1997 Apr;44(4):326–8

Three-dimensional finite-difference bidomain modeling of homogeneous cardiac tissue on a data-parallel computer. Saleheen HI, et al. **IEEE Trans Biomed Eng** 1997 Feb; 44(2):200–4

Discrete versus syncytial tissue behavior in a model of cardiac stimulation--II: Results of simulation. Trayanova N. **IEEE Trans Biomed Eng** 1996 Dec;43(12):1141–50

Late potential recognition by artificial neural networks. Xue Q, et al. **IEEE Trans Biomed Eng** 1997 Feb;44(2):132–43

Kinin release from normally perfused and ischaemic isolated rat hearts: effect of strain. Ahmad M, et al. **Immunopharmacology** 1996 Jun;33(1-3):297–8

Modulation of kinin outflow from isolated perfused rat hearts by endothelin-1. Zeitlin IJ, et al. **Immunopharmacology** 1996 Jun;33(1-3):294–6

Advances in myocardial protection: the role of mechanical devices in providing cardioprotective strategies. Stammers AH. **Int Anesthesiol Clin** 1996 Spring;34(2):61–84 (66 ref.)

Dobutamine stress-redistribution-reinjection versus rest-redistribution thallium-201 SPECT in the assessment of myocardial viability. Cornel JH, et al. **Int J Card Imaging** 1997 Feb;13(1):59–64

Myocardial material property determination in the in vivo heart using magnetic resonance imaging. Moulton MJ, et al. **Int J Card Imaging** 1996 Sep;12(3):153–67

Heart development and regeneration in urodeles. Neff AW, et al. **Int J Dev Biol** 1996 Aug;40(4):719–25 (76 ref.)

Cardiac status and cardiovascular risk factors among Finnish sea pilots. Saarni H, et al. **Int J Occup Med Environ Health** 1996;9(1):53–8

Alteration of cardiovascular function in trained rats fed with fish oil. Lortet S, et al. **Int J Sports Med** 1995 Nov; 16(8):519–21

The reproducibility of cardiopulmonary responses to exercise using a swim bench. Swaine IL, et al. **Int J Sports Med** 1996 Feb;17(2):140–4

The hemodynamic consequences of mechanical ventilation: an evolving story. Pinsky MR. **Intensive Care Med** 1997 May;23(5):493–503 (93 ref.)

Ultrasonic determination of the anisotropy of Young's modulus of fixed tendon and fixed myocardium. Hoffmeister BK, et al. **J Acoust Soc Am** 1996 Dec; 100(6):3933–40

Cardiorespiratory response to exercise after modified Fontan operation: determinants of performance. Durongpisitkul K, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):785–90

A modified rebreathing technique using an infrared gas analyzer. Barazanji KW, et al. **J Appl Physiol** 1996 Apr; 80(4):1258–62

Effects of hypothermia on energy metabolism in rat and Richardson's ground squirrel hearts. Belke DD, et al. **J Appl Physiol** 1997 Apr;82(4):1210–8

Is respiratory sinus arrhythmia a good index of cardiac vagal tone in exercise? Casadei B, et al. **J Appl Physiol** 1996 Aug;

81(2):556–64
Vitamin E attenuates myocardial oxidative stress induced by DHEA in rested and exercised rats. Goldfarb AH, et al. **J Appl Physiol** 1996 Feb;80(2):486–90
Tone–entropy analysis on cardiac recovery after dynamic exercise. Oida E, et al. **J Appl Physiol** 1997 Jun; 82(6):1794–801
Interactive effects of K+, acid, norepinephrine, and ischemia on the heart: implications for exercise. O'Neill M, et al. **J Appl Physiol** 1997 Apr;82(4):1046–52
Antiarrhythmic mechanisms during exercise. Paterson DJ. **J Appl Physiol** 1996 Jun;80(6):1853–62 (100 ref.)
Exercise training improves lusitropy by isoproterenol in papillary muscles from aged rats. Taffet GE, et al. **J Appl Physiol** 1996 Oct;81(4):1488–94
Fractal analysis of cytoskeleton rearrangement in cardiac muscle during head–down tilt. Thomason DB, et al. **J Appl Physiol** 1996 Oct;81(4):1522–7
Fractional changes in lung capillary blood volume and oxygen saturation during the cardiac cycle in rabbits. Topulos GP, et al. **J Appl Physiol** 1997 May;82(5):1668–76
Ventricular volume elasticity: a component of cardiovascular control? Encke T, et al. **J Auton Nerv Syst** 1996 Mar 7; 57(3):173–6
Parasympathetic control of heart period during early postnatal development in the rat. Quigley KS, et al. **J Auton Nerv Syst** 1996 Jun 10;59(1–2):75–82
Muscarinic autoinhibition of acetylcholine release in mouse atria is not transduced through cyclic AMP or protein kinase C. Dawson JJ, et al. **J Auton Pharmacol** 1996 Apr; 16(2):79–85
Purinergic modulation of neural control of cardiac function. Pelleg A, et al. **J Auton Pharmacol** 1996 Dec;16(6):401–5 (56 ref.)
The effect of quinidine and myocardial ischemia on the isolated rat heart with fat–free diet. Merkin MS, et al. **J Basic Clin Physiol Pharmacol** 1994 Apr–Jun;5(2):133–49
Modulation of cardiac ryanodine receptors by sorcin. Lokuta AJ, et al. **J Biol Chem** 1997 Oct 3;272(40):25333–8
Measurements of active myocardial tension under a wide range of physiological loading conditions. Guccione JM, et al. **J Biomech** 1997 Feb;30(2):189–92
Tracking markers with missing data by lower rank approximation. Muijtjens AM, et al. **J Biomech** 1997 Jan; 30(1):95–8
A novel video technique for visualizing flow structures in cardiovascular models. Shortland AP, et al. **J Biomech** 1996 Feb;29(2):239–44
The effect of tumor necrosis factor–alpha on cardiac structure and function: a tale of two cytokines. Mann DL. **J Card Fail** 1996 Dec;2(4 Suppl):S165–72 (60 ref.)
Antihypertensive and cardioprotective effects after angiotensin–converting enzyme inhibition: role of kinins. Tschöpe C, et al. **J Card Fail** 1997 Jun;3(2):133–48 (192 ref.)
Cardiac mechanical energy and effects on the arterial tree. Muñoz HR, et al. **J Cardiothorac Vasc Anesth** 1997 May; 11(3):289–98 (61 ref.)
Mechanical simulation of cardiac function by means of pulsatile blood pumps. Wright G. **J Cardiothorac Vasc Anesth** 1997 May;11(3):299–309 (89 ref.)
Signal–averaged intracardiac electrograms: a new method to detect kent potentials. Berger RD, et al. **J Cardiovasc Electrophysiol** 1997 Feb;8(2):155–60
Effects of 2,3–butanedione monoxime on atrial–atrioventricular nodal conduction in isolated rabbit heart. Cheng Y, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):790–802
Atrial natriuretic peptide and cardiac electrophysiology: autonomic and direct effects. Clemo HF, et al. **J Cardiovasc Electrophysiol** 1996 Feb;7(2):149–62 (124 ref.)
Developmental changes in modulation of cardiac repolarization by sympathetic stimulation: the role of beta– and alpha–adrenergic receptors. Cua M, et al. **J Cardiovasc Electrophysiol** 1997 Aug;8(8):865–71
Myocardial vulnerability to T wave shocks: relation to shock strength, shock coupling interval, and dispersion of ventricular repolarization. Fabritz CL, et al. **J Cardiovasc Electrophysiol** 1996 Mar;7(3):231–42
Modeling the interaction between propagating cardiac waves and monophasic and biphasic field stimuli: the importance of the induced spatial excitatory response. Fishler MG, et al. **J Cardiovasc Electrophysiol** 1996 Dec;7(12):1183–96
Unique properties of cardiac action potentials recorded with voltage–sensitive dyes. Girouard SD, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1024–38
Anisotropy, fiber curvature, and bath loading effects on activation in thin and thick cardiac tissue preparations: simulations in a three–dimensional bidomain model. Henriquez CS, et al. **J Cardiovasc Electrophysiol** 1996 May; 7(5):424–44
Electrophysiologic effects of interactions between activated canine neutrophils and cardiac myocytes. Hoffman BF, et al. **J Cardiovasc Electrophysiol** 1997 Jun;8(6):679–87
Paced activation mapping reveals organization of myocardial fibers: a simulation study. Muzikant AL, et al. **J Cardiovasc Electrophysiol** 1997 Mar;8(3):281–94
Strength–interval curves for cardiac tissue predicted using the bidomain model. Roth BJ. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):722–37
Nonsustained reentry following successive stimulation of cardiac tissue through a unipolar electrode. Roth BJ. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):768–78
Azimilide (NE–10064) can prolong or shorten the action potential duration in canine ventricular myocytes: dependence on blockade of K, Ca, and Na channels. Yao JA, et al. **J Cardiovasc Electrophysiol** 1997 Feb;8(2):184–98
Effects of 5–HT4–receptor agonists, cisapride, mosapride citrate, and zacopride, on cardiac action potentials in guinea pig isolated papillary muscles. Kii Y, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):670–5
Beneficial actions of preconditioning and stretch on postischemic contractile function of isolated working rat heart: effects of staurosporine. Obadia JF, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):191–6
Resident cardiac mast cells and the cardioprotective effect of ischemic preconditioning in isolated rat heart. Parikh V, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):149–56
alpha 1–Adrenoceptor stimulation partially inhibits ATP–sensitive K+ current in guinea pig ventricular cells: attenuation of the action potential shortening induced by hypoxia and K+ channel openers. Takizawa T, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):799–808
Classification of positive inotropic actions based on electrophysiologic characteristics: where should calcium sensitizers be placed? Varro A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S32–44 (97 ref.)
Differentiation and integrity of cardiac muscle cells are impaired in the absence of beta 1 integrin. Fässler R, et al. **J Cell Sci** 1996 Dec;109 (Pt 13):2989–99
Conditional differentiation of heart– and smooth muscle–derived cells transformed by a temperature–sensitive mutant of SV40 T antigen. Jahn L, et al. **J Cell Sci** 1996 Feb;109 (Pt 2):397–407
An intrinsic cardiac adrenergic system can regulate cardiac development and function [editorial] Abboud FM. **J Clin Invest** 1996 Sep 15;98(6):1275–6
Ablation of the murine alpha myosin heavy chain gene leads to dosage effects and functional deficits in the heart. Jones WK, et al. **J Clin Invest** 1996 Oct 15;98(8):1906–17
Stretch–induced VEGF expression in the heart. Li J, et al. **J Clin Invest** 1997 Jul 1;100(1):18–24
Skeletal myoblast transplantation for repair of myocardial necrosis. Murry CE, et al. **J Clin Invest** 1996 Dec 1; 98(11):2512–23
Cardiogenic oscillations may be masked by the breathing system configuration. Haridas RP, et al. **J Clin Monit** 1997 Jul;13(4):269–72
Relationship between burst properties and sensitivity to input: a theoretical analysis. Sivan E, et al. **J Comput Neurosci** 1996 Mar;3(1):35–50
Temporal and spatial analysis of potential maps via multiresolution decompositions. Brooks DH, et al. **J Electrocardiol** 1996;29 Suppl:114–24 (20 ref.)
Spatial coherence: a new method of quantifying myocardial electrical organization using multichannel epicardial electrograms. Fendelander L, et al. **J Electrocardiol** 1997 Jan;30(1):9–19
Electrophysiologic abnormalities of cardiac function in progressive systemic sclerosis. Rokas S, et al. **J Electrocardiol** 1996 Jan;29(1):17–25
ECG waveforms and cardiac electric sources. Taccardi B, et al. **J Electrocardiol** 1996;29 Suppl:98–100 (13 ref.)
Relaxin stimulates atrial natriuretic peptide secretion in perfused rat heart. Toth M, et al. **J Endocrinol** 1996 Sep; 150(3):487–95
Cardiopulmonary effects of lying position in anesthetized and mechanically ventilated dogs. Bornscheuer A, et al. **J Exp Anim Sci** 1996 Aug;38(1):20–7
Analysis of cardiac shunting in the turtle Trachemys (Pseudemys) scripta: application of the three outflow vessel model. Ishimatsu A, et al. **J Exp Biol** 1996 Dec;199 (12):2667–77
Comparison of the responses to hypoxia, ischaemia and ischaemic preconditioning in wild marmot and laboratory rabbit hearts. McKean T, et al. **J Exp Biol** 1996 Mar;199 (Pt 3):693–7
Vitamin E administration attenuates the tri–iodothyronine–induced modification of heart electrical activity in the rat. Venditti P, et al. **J Exp Biol** 1997 Mar; 200 (Pt 5):909–14
The effect of hyperosmolality on the rate of heat production of quiescent trabeculae isolated from the rat heart. Loiselle DS, et al. **J Gen Physiol** 1996 Dec;108(6):497–514
Preservation of myocardial function and metabolism at subzero nonfreezing temperature storage of the heart. Sakaguchi H, et al. **J Heart Lung Transplant** 1996 Nov; 15(11):1101–7
Transgenic human decay accelerating factor makes normal pigs function as a concordant species. Schmoeckel M, et al. **J Heart Lung Transplant** 1997 Jul;16(7):758–64
Blood pressure and myocardial perfusion in hypertensive patients with and without left ventricular hypertrophy. Boström PA, et al. **J Hum Hypertens** 1995 Dec; 9(12):969–74
A method for repeated high–fidelity micromanometer measurement of intracardiac pressures. Fanton JW, et al. **J Invest Surg** 1996 May–Jun;9(3):167–73
Adaptive blood pool segmentation in three–dimensions: application to MR cardiac evaluation. Kaushikkar SV, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):690–7
Dynamic contrast–enhanced breath–hold MR imaging of thoracic malignancy using cardiac compensation. Low RN, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):625–31
Black blood dual phase turbo FLASH MR imaging of the heart. Sinha S, et al. **J Magn Reson Imaging** 1996 May–Jun; 6(3):484–94
Dynamic range extension of cine velocity measurements using motion–registered spatiotemporal phase unwrapping. Yang GZ, et al. **J Magn Reson Imaging** 1996 May–Jun; 6(3):495–502
Strategy for control of complex low–dimensional dynamics in cardiac tissue. Watanabe M, et al. **J Math Biol** 1996 Nov;35(1):73–87
Opening of cardiac sarcolemmal KATP channels by dinitrophenol separate from metabolic inhibition. Alekseev AE, et al. **J Membr Biol** 1997 May 15;157(2):203–14
Mechanically activated currents in chick heart cells. Hu H, et al. **J Membr Biol** 1996 Dec;154(3):205–16
Analysis of cardiac function by MRI and stereology. Roberts N, et al. **J Microsc** 1997 Jul;187 (Pt 1):31–42
Effects of heparin on the electrophysiological and mechanical properties of early embryonic chick hearts. Alanís J, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2503–11
Adenosine slows the rate of K(+)–induced membrane depolarization in ventricular cardiomyocytes: possible implication in hyperkalemic cardioplegia. Alekseev AE, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1193–202
Functional analysis of myocardial performance in murine hearts overexpressing the human beta 2–adrenergic receptor. Bittner HB, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):961–7
Effects of caffeine and cyclopiazonic acid on contractile proteins of adult and newborn ferret cardiac fibres. Bonnet V, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1287–95
Mechanical load enhances the stimulatory effect of serum growth factors on cardiac fibroblast procollagen synthesis. Butt RP, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1141–51
Is stunning an important component of preconditioning? Cargnoni A, et al. **J Mol Cell Cardiol** 1996 Dec; 28(12):2323–31
Developmental changes in the effects of pH on contraction and Ca2+ current in rabbit heart. Chen F, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):635–42
Identification and functional role of beta–adrenergic receptor subtypes in primate and rodent: in vivo versus isolated myocytes. Cui Y, et al. **J Mol Cell Cardiol** 1996 Jun; 28(6):1307–17
Characterization of a human cardiac gene which encodes for a LIM domain protein and is developmentally expressed in myocardial development. Fung YW, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):426–7
Dichotomy in the post–ischemic metabolic and functional recovery profiles of isolated blood–versus buffer–perfused heart. Galiñanes M, et al. **J Mol Cell Cardiol** 1996 Mar; 28(3):531–9
Effects of Bay K 8644 on L–type calcium current from newborn rat cardiomyocytes in primary culture. Gomez JP, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2217–29
Ischemic preconditioning: bioenergetic and metabolic changes and the role of endogenous adenosine. Headrick JP. **J Mol Cell Cardiol** 1996 Jun;28(6):1227–40
In vivo colored microspheres in the isolated rat heart for use in NMR. Hiller KH, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):571–7
Stretch–activated ion channels in the heart. Hu H, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1511–23 (145 ref.)
Ouabain–induced hypertrophy in cultured cardiac myocytes is accompanied by changes in expression of several late response genes. Huang L, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):429–37
Mild hypoxia induces hypertrophy of cultured neonatal rat cardiomyocytes: a possible endogenous endothelin–1–mediated mechanism. Ito H, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1271–7
Mathematical modeling of relations between the kinetics of free intracellular calcium and mechanical function of myocardium. Katsnelson LB, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):475–86
Does preconditioning act by glycogen depletion in the isolated rat heart? King LM, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2305–21
Activation of pyruvate dehydrogenase improves heart function and metabolism after hemorrhagic shock. Kline JA, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2465–74
Myocardial protection of contractile function after global ischemia by physiologic estrogen replacement in the ovariectomized rat. Kolodgie FD, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2403–14
Effect of raised extracellular calcium on characteristics of the guinea–pig ventricular action potential. Leitch SP, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):541–51
The role of hsp70 and IP3–DAG mechanism in the adaptive stabilization of structures and heart protection. Meerson FZ, et al. **J Mol Cell Cardiol** 1996 May;28(5):835–43
Action potential and plateau ionic currents in moderately and severely DOCA–salt hypertrophied rat hearts. Momtaz A, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2511–22
Endocardial endothelium and myocardial performance in rats: effects of changing extracellular calcium and phenylephrine. Qi X, et al. **J Mol Cell Cardiol** 1996 May; 28(5):859–69
Hydrocarbon chain length–dependent antagonism of acylcarnitines to the depressant effect of lysophosphatidylcholine on cardiac sodium current. Sato

T, et al. **J Mol Cell Cardiol** 1996 Oct;28(10):2183–94

Electrophysiological characteristics of repetitive ischemic preconditioning in the pig heart. Shattock MJ, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1339–47

The in vivo quantification of myocardial performance in rabbits: a model for evaluation of cardiac gene therapy. Silvestry SC, et al. **J Mol Cell Cardiol** 1996 May; 28(5):815–23

The modulation of pacing–induced changes in intracellular sodium levels by extracellular Ca2+ in isolated perfused rat hearts. Simor T, et al. **J Mol Cell Cardiol** 1997 Apr; 29(4):1225–35

Inhibitory effects of O–benzyl–phosphocreatine ethyl ester in rabbit myocardium. Tuganowski W, et al. **J Mol Cell Cardiol** 1996 May;28(5):845–9

The effect of alterations to action potential duration on beta–adrenoceptor–mediated aftercontractions in human and guinea–pig ventricular myocytes. Tweedie D, et al. **J Mol Cell Cardiol** 1997 May;29(5):1457–67

Ryanodine perfusion decreases cardiac mechanical function without affecting homogenate sarcoplasmic reticulum Ca2+ uptake: comparison with the stunned heart. Wu QY, et al. **J Mol Cell Cardiol** 1996 May;28(5):943–55

Contractile properties of myocardium are altered in dystrophin–deficient mdx mice. Sapp JL, et al. **J Neurol Sci** 1996 Oct;142(1–2):17–24

A cardiac–like sodium current in motor neurons of a jellyfish. Grigoriev NG, et al. **J Neurophysiol** 1996 Oct;76(4):2240–9

Cloning of a novel component of A–type K+ channels operating at subthreshold potentials with unique expression in heart and brain. Serôdio P, et al. **J Neurophysiol** 1996 May;75(5):2174–9

Neurotransmitter regulation of the heart in the nudibranch Archidoris montereyensis. Wiens BL, et al. **J Neurophysiol** 1995 Oct;74(4):1639–51

Significance of endothelinB receptors for myocardial contractility and myocardial energy metabolism. Beyer ME, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1228–34

Evidence against a cytochrome P450–derived reactive oxygen species as the mediator of the nitric oxide–independent vasodilator effect of bradykinin in the perfused heart of the rat. Fulton D, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):702–9

Effects of verapamil and diltiazem on the ventricular rate during simulated atrial flutter in isolated guinea pig hearts. Stark U, et al. **J Pharmacol Toxicol Methods** 1996 Aug; 35(4):203–9

Downregulation of muscarinic M2 receptors linked to K+ current in cultured guinea–pig atrial myocytes. Bünemann M, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):351–62

3–hydroxybutyrate blocks the transient K+ outward current in myocardial mouse cells in a stereoselective fashion. Doepner B, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):85–94

Delayed sympathetic efferent responses to coronary baroreceptor unloading in anaesthetized dogs. Drinkhill MJ, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):261–9

Modulation of dog atrial swelling–induced chloride current by cAMP: protein kinase A–dependent and –independent pathways. Du XY, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):111–22

Shal–type channels contribute to the Ca2+–independent transient outward K+ current in rat ventricle. Fiset C, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):51–64

The role of inward Na(+)–Ca2+ exchange current in the ferret ventricular action potential. Janvier NC, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):611–25

Reflex cardiac dromotropic responses to stimulation of the carotid and aortic chemoreceptors in the anaesthetized cat. Jones JF, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):461–7

Selective enhancement of the slow component of delayed rectifier K+ current in guinea–pig atrial cells by external ATP. Matsuura H, et al. **J Physiol (Lond)** 1997 Aug 15; 503 (Pt 1):45–54

Kinetic properties of unitary Na+–dependent K+ channels in inside–out patches from isolated guinea–pig ventricular myocytes. Mistry DK, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):39–50

Extracellular divalent cations block a cation non–selective conductance unrelated to calcium channels in rat cardiac muscle. Mubagwa K, et al. **J Physiol (Lond)** 1997 Jul 15; 502 (Pt 2):235–47

The ventral medullary respiratory network of the mature mouse studied in a working heart–brainstem preparation. Paton JF. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):819–31

Calcium sparks and excitation–contraction coupling in phospholamban–deficient mouse ventricular myocytes. Santana LF, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):21–9

Stimulation of alpha 1–adrenoceptors and protein kinase C–mediated activation of ecto–5′–nucleotidase in rat hearts in vivo. Sato T, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):119–27

Thyroid hormone regulates postnatal expression of transient K+ channel isoforms in rat ventricle. Shimoni Y, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):65–73

Differential effects of endothelin–1 on basal and isoprenaline–enhanced Ca2+ current in guinea–pig ventricular myocytes. Thomas GP, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):55–65

Inwardly rectifying K+ channels in freshly dissociated coronary endothelial cells from guinea–pig heart. von Beckerath N, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):357–65

The role of Na(+)–Ca2+ exchange in activation of excitation–contraction coupling in rat ventricular myocytes. Wasserstrom JA, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):529–42

Voltage–dependent binding and calcium channel current inhibition by an anti–alpha 1D subunit antibody in rat dorsal root ganglion neurones and guinea–pig myocytes. Wyatt CN, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):307–19

Characterization of an ultrarapid delayed rectifier potassium channel involved in canine atrial repolarization. Yue L, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):647–62

Effects of sexual intercourse on maximal aerobic power, oxygen pulse, and double product in male sedentary subjects. Boone T, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):214–7

Cardiorespiratory, hormonal and haematological responses to submaximal cycling performed 2 days after eccentric or concentric exercise bouts. Gleeson M, et al. **J Sports Sci** 1995 Dec;13(6):471–9

A work–performing heart preparation for myocardial performance analysis in murine hearts. Bittner HB, et al. **J Surg Res** 1996 Jul 15;64(1):57–62

Acute increase of myocardial workload, hemodynamic instability, and myocardial histological changes induced by brain death in the cat. Bruinsma GJ, et al. **J Surg Res** 1997 Feb 15;68(1):7–15

Cardioadaptation induced by cyclic ischemic preconditioning is mediated by translational regulation of de novo protein synthesis. Rowland RT, et al. **J Surg Res** 1997 Aug; 71(2):155–60

Memory models for the electrical properties of local cardiac systems. Otani NF, et al. **J Theor Biol** 1997 Aug 7; 187(3):409–36

Heart reduction surgery: an analysis of the impact on cardiac function. Dickstein ML, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1032–40

Transplantation of genetically marked cardiac muscle cells. Gojo S, et al. **J Thorac Cardiovasc Surg** 1997 Jan; 113(1):10–8

Dynamic cardiac compression improves contractile efficiency of the heart. Kawaguchi O, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):923–31

Systolic ventricular interaction in normal and diseased explanted human hearts. Slater JP, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1091–9

Perioperative maintenance of normal temperature [letter; comment] Berry AJ. **JAMA** 1997 Aug 20;278(7):545; discussion 545–6. Comment on: JAMA 1997 Apr 9;277(14):1127–34.

Perioperative maintenance of normal temperature [letter; comment] Kempen PM. **JAMA** 1997 Aug 20;278(7):545; discussion 545–6. Comment on: JAMA 1997 Apr 9;277(14):1127–34.

Criteria for evaluating abnormal signal–averaged electrocardiogram in children classified by age, body surface area and height. Jimbo O, et al. **Jpn Circ J** 1996 Apr;60(4):228–38

Effect of inferior vena cava occlusion on left ventricular end–systolic pressure–volume relations in intact canine hearts—modulation by the autonomic nervous system. Miyahara K, et al. **Jpn Circ J** 1996 Sep;60(9):652–61

Functions of cardiac ion channels under normal and pathological conditions. Hiraoka M, et al. **Jpn Heart J** 1996 Sep;37(5):693–707 (81 ref.)

Acute and chronic effects of amiodarone on mammalian ventricular cells. Kodama I, et al. **Jpn Heart J** 1996 Sep; 37(5):719–30 (25 ref.)

Cardiorespiratory changes when balancing one's whole body on one leg with eyes closed. Kita I, et al. **Jpn J Physiol** 1996 Apr;46(2):145–53

Similarities and differences in the time course of mechanical activity of the canine myocardium and isovolumic left ventricle. Nwasokwa ON. **Jpn J Physiol** 1996 Aug; 46(4):327–36

Video–imaging assessment of initial beating patterns of the early embryonic chick heart. Sakai T, et al. **Jpn J Physiol** 1996 Dec;46(6):465–72

Renal function in the elderly: impact of hypertension and cardiac function. Fliser D, et al. **Kidney Int** 1997 Apr; 51(4):1196–204

Effects of acetate on energy metabolism and function in the isolated perfused rat heart. Jacob AD, et al. **Kidney Int** 1997 Sep;52(3):755–60

P–wave duration in a clinically normal hound population. Blumenthal SR, et al. **Lab Anim Sci** 1996 Apr;46(2):211–4

Effects of anesthesia and open–thorax surgery on coronary vascular reserve in swine. Rogers IT, et al. **Lab Anim Sci** 1997 Aug;47(4):396–400

Thromboxane A2 receptor mediation of calcium and calcium transients in rat cardiomyocytes. Dogan S, et al. **Life Sci** 1997;60(12):943–52

Myocardial alpha1–adrenoceptor: inotropic effect and physiologic and pathologic implications. Li K, et al. **Life Sci** 1997;60(16):1305–18 (127 ref.)

Effects of aging on the activities of pyruvate dehydrogenase complex and its kinase in rat heart. Nakai N, et al. **Life Sci** 1997;60(25):2309–14

Common k–space acquisition: a method to improve myocardial grid–tag contrast. Doyle M, et al. **Magn Reson Med** 1997 May;37(5):754–63

Rapid cardiac imaging with turbo BRISK. Doyle M, et al. **Magn Reson Med** 1997 Mar;37(3):410–7

Reduction of motion artifacts in cine MRI using variable–density spiral trajectories. Liao JR, et al. **Magn Reson Med** 1997 Apr;37(4):569–75

The inverse problem of electrocardiography: a solution in terms of single– and double–layer sources of the epicardial surface. Horáček BM, et al. **Math Biosci** 1997 Sep; 144(2):119–54

Magnetic source imaging in the human heart: estimating cardiac electrical sources from simulated and measured magnetocardiogram data. Wach P, et al. **Med Biol Eng Comput** 1997 May;35(3):157–66

Figuring out why we breathe. Farnsworth WE. **Med Hypotheses** 1997 Mar;48(3):229–36 (54 ref.)

The third heart sound is the result of a shock wave caused by the ventricular inflow velocity exceeding the wave velocity. Owen A. **Med Hypotheses** 1996 Aug;47(2):81–3

Electric field plethysmography signals of the human thorax as determined by a 2–D FE–model. Nopp P, et al. **Med Prog Technol** 1995–96;21(3):135–45

Effects of altered loading states on muscle plasticity: what have we learned from rodents? Baldwin KM. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S101–6

Pulmonary function and cardiopulmonary interactions at microgravity. Linnarsson D. **Med Sci Sports Exerc** 1996 Oct;28(10 Suppl):S14–7 (21 ref.)

Athletic heart: a metabolic, anatomical, and functional study. Turpeinen AK, et al. **Med Sci Sports Exerc** 1996 Jan; 28(1):33–40

The kinetic characteristics of the L–type calcium channels in cardiocytes of hibernators. 1. Development of a kinetic model. Alekseev AE, et al. **Membr Cell Biol** 1997; 11(1):31–44

Apoptosis in the heart: when and why? Brömme HJ, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:261–75 (150 ref.)

Immunohistochemical analysis of the adaptation of adult guinea–pig cardiomyocytes in long–term cultures and in cocultures with cardiac neurons: a novel model for studies of myocardial function. Horackova M, et al. **Mol Cell Biochem** 1997 Jul;172(1–2):227–38

Cardiac pump function of the isolated rat heart at two modes of energy deprivation and effect of adrenergic stimulation. Kapelko VI, et al. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:131–6

Comparative study of cardiac electrophysiological effects of atrial natriuretic peptide. Kecskemeti V, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:53–9

Protective effect of vanadate on oxyradical–induced changes in isolated perfused heart. Matsubara T, et al. **Mol Cell Biochem** 1995 Dec 6–20;153(1–2):79–85

Estrogen effects in the heart. Pelzer T, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:307–13 (64 ref.)

Control of cardiac performance by Ca–turnover. Simurda J, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:5–12 (20 ref.)

Regulation of the slow Ca+ + channels of myocardial cells. Sperelakis N, et al. **Mol Cell Biochem** 1996 Oct–Nov; 163–164:85–98 (49 ref.)

Effects of anti–peptide antibodies against the second extracellular loop of human M2 muscarinic acetylcholine receptors on transmembrane potentials and currents in guinea pig ventricular myocytes. Zhao R, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:185–93

Regulation of and intervention into the oxidative pentose phosphate pathway and adenine nucleotide metabolism in the heart. Zimmer HG. **Mol Cell Biochem** 1996 Jul–Aug; 160–161:101–9 (49 ref.)

Cyclic AMP–independent inhibition of cardiac calcium current by forskolin. Asai T, et al. **Mol Pharmacol** 1996 Nov;50(5):1262–72

Modulation of human cardiac function through 4 beta–adrenoceptor populations. Kaumann AJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):667–81 (114 ref.)

Blockade of the human cardiac K+ channel Kv1.5 by the antibiotic erythromycin. Rampe D, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):743–50

Cardiac reactivity during task performance: influence of time of day. Adan A, et al. **Neuroreport** 1996 Dec 20;8(1):129–32

On the mechanism of alpha 1–adrenergic modulation of the inwardly–rectifying potassium channel gating in the human heart. Koumi S, et al. **Nippon Ika Daigaku Zasshi** 1996 Apr;63(2):165–8

Noninvasive evaluation of coronary artery disease and myocardial viability through stress echocardiography and myocardial perfusion imaging. Beattie S, et al. **Nurse Pract** 1997 Aug;22(8):32, 34, 39–40 passim (18 ref.)

Cumulative index volumes 1–19, 1978–1996. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 2):2179–296

North American Society of Pacing and Electrophysiology 17th annual scientific sessions. Seattle, Washington, May 15–18, 1996. Abstracts. **Pacing Clin Electrophysiol** 1996 Apr;19(4 Pt 2):527–745

Cardiac Electrophysiology: The Duke Perspective. Proceedings of a symposium. Durham, North Carolina, April 26–28, 1996. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):381–606

North American Society of Pacing and Electrophysiology 18th annual scientific sessions. New Orleans, Louisiana,

May 7–10, 1997. Abstracts. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 2):1050–235

Is local myocardial contractility related to endocardial acceleration signals detected by a transvenous pacing lead? Bongiorni MG, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1682–8

A conceptual basis for pacing waveforms. Cleland BG. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1177–85

A conceptual basis for defibrillation waveforms. Cleland BG. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1186–95

A randomized, single-blind crossover comparison of the effects of chronic DDD and dual sensor VVIR pacing mode on quality-of-life and cardiopulmonary performance in complete heart block. Deharo JC, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1320–6

Transvalvular impedance (TVI) recording under electrical and pharmocological cardiac stimulation. Di Gregorio F, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1689–93

Heart rate variability in isolated rabbit hearts. Frey B, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1882–5

The effect of ventricular activation sequence on cardiac performance during pacing. Rosenqvist M, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1279–86

Postnatal changes in left ventricular volume and contractility in healthy term infants. Kishkurno S, et al. **Pediatr Cardiol** 1997 Mar-Apr;18(2):91–5

Aerobic exercise function of patients with persistent coronary artery aneurysms secondary to Kawasaki disease. Rhodes J, et al. **Pediatr Cardiol** 1996 Jul-Aug;17(4):226–30

Reversal of the relative expression of cardiac and skeletal alpha1 subunit isoforms of L-type calcium channel during in vitro myogenesis. Bulteau L, et al. **Pflugers Arch** 1997 Jan;433(3):376–8

Inhibition of IKs in guinea pig cardiac myocytes and guinea pig IsK channels by the chromanol 293B. Busch AE, et al. **Pflugers Arch** 1996 Oct;432(6):1094–6

Reflex adrenal medullary secretion during coronary occlusion mediated by cardiac receptors with afferent vagal fibres in the rat. Godin-Ribuot D, et al. **Pflugers Arch** 1997 Jun;434(2):159–65

The sustained inward current in sino-atrial node cells of guinea-pig heart. Guo J, et al. **Pflugers Arch** 1997 Feb; 433(4):390–6

Kinetic components of the gating currents of human cardiac L-type Ca2+ channels. Josephson IR. **Pflugers Arch** 1997 Jan;433(3):321–9

Computer support for experiments on isolated hearts. Kocijančič S, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R273–4

Effects of tissue conductivity variations on the cardiac magnetic fields simulated with a realistic heart-torso model. Czapski P, et al. **Phys Med Biol** 1996 Aug;41(8):1247–63

Reconstruction of two-dimensional current distribution from tangential MCG measurement. Kandori A, et al. **Phys Med Biol** 1996 Sep;41(9):1705–16

Persisting in vitro actin motility at nanomolar adenosine triphosphate levels: comparison of skeletal and cardiac myosins. Kellermayer MS Jr, et al. **Physiol Chem Phys Med NMR** 1995;27(3):167–78

Fast EIT data acquisition system with active electrodes and its application to cardiac imaging. Li JH, et al. **Physiol Meas** 1996 Nov;17 Suppl 4A:A25–32

Cardiac-related changes in lung resistivity as a function of frequency and location obtained from EITS images. Nopp P, et al. **Physiol Meas** 1996 Nov;17 Suppl 4A:A213–25

Modelling of cardiac-related changes in lung resistivity measured with EITS. Zhao TX, et al. **Physiol Meas** 1996 Nov;17 Suppl 4A:A227–34

Ryanodine receptors of striated muscles: a complex channel capable of multiple interactions. Franzini-Armstrong C, et al. **Physiol Rev** 1997 Jul;77(3):699–729 (356 ref.)

Cardio-pulmonary function during acute unilateral occlusion of the pulmonary artery in broilers fed diets containing normal or high levels of arginine-HCl. Wideman RF Jr, et al. **Poult Sci** 1996 Dec;75(12):1587–602

Sarcoplasmic reticulum Ca2+ release flux underlying Ca2+ sparks in cardiac muscle. Blatter LA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4176–81

Formation of junctions involved in excitation-contraction coupling in skeletal and cardiac muscle. Flucher BE, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8101–6

Overexpression of angiotensin AT1 receptor transgene in the mouse myocardium produces a lethal phenotype associated with myocyte hyperplasia and heart block. Hein L, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6391–6

Rescue of cardiac alpha-actin-deficient mice by enteric smooth muscle gamma-actin. Kumar A, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4406–11

Transgenic A1 adenosine receptor overexpression increases myocardial resistance to ischemia. Matherne GP, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6541–6

Ligand-induced overexpression of a constitutively active beta2-adrenergic receptor: pharmacological creation of a phenotype in transgenic mice. Samama P, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):137–41

Myocardial signaling defects and impaired cardiac function of a human beta 2-adrenergic receptor polymorphism expressed in transgenic mice. Turki J, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10483–8

Cardiac endothelium and tissue growth. Balligand JL, et al. **Prog Cardiovasc Dis** 1997 Jan-Feb;39(4):351–60 (105 ref.)

Cardiac rhythmicities and attention in young children. Hyde C, et al. **Psychophysiology** 1997 Sep;34(5):547–52

Characterisation of left ventricular relaxation in the isolated guinea pig heart. Schäfer S, et al. **Res Exp Med (Berl)** 1996; 196(5):261–73

Cardiac performance in conscious healthy dogs during dobutamine infusion. McEntee K, et al. **Res Vet Sci** 1996 Nov;61(3):234–9

Inspiratory gas flow induced by cardiac systole. Colebatch HJ, et al. **Respir Physiol** 1996 Aug;105(1-2):103–8

Routine coronary angioplasty with autoperfusion balloon catheter: Can prolonged inflations reduce myocardial ischemia and preserve myocardial function? Cremonesi A, et al. **Riv Eur Sci Med Farmacol** 1995 Nov-Dec; 17(6):209–13

The effect of Losartan, an angiotensin II antagonist, on cardiac function, mass and morphology in rats after repeated hyperbaric exposures. Stuhr LE, et al. **Scand J Clin Lab Invest** 1997 May;57(3):253–61

Paradoxical improvement of impulse conduction in cardiac tissue by partial cellular uncoupling. Rohr S, et al. **Science** 1997 Feb 7;275(5301):841–4

A comparison of cross-sectional and longitudinal methods of assessing the influence of pregnancy on cardiac function during exercise. Khodiguian N, et al. **Semin Perinatol** 1996 Aug;20(4):232–41

Mathematical coupling and Starling's law of the heart [letter; comment] Chang MC, et al. **Shock** 1997 Mar;7(3):230–1. Comment on: Shock 1996 Nov;6(5):326–9. Comment on: Shock 1996 Nov;6(5):330.

Mathematical coupling and Starling's law of the heart [editorial; comment] [see comments] McNamee JE, et al. **Shock** 1996 Nov;6(5):330. Comment on: Shock 1996 Nov;6(5):326–9. Comment in: Shock 1997 Mar;7(3):230–1.

Cardiac autonomic activity during wakefulness and sleep in REM sleep behavior disorder. Ferini-Strambi L, et al. **Sleep** 1996 Jun;19(5):367–9

Functional significance of membrane architecture in skeletal and cardiac muscle. Franzini-Armstrong C. **Soc Gen Physiol Ser** 1996;51:3–18 (72 ref.)

Inferior vena caval blood flow and cardiac hemodynamics during carbon dioxide pneumoperitoneum. Ortega AE, et al. **Surg Endosc** 1996 Sep;10(9):920–4

The heart as a self-regulating system: integration of homeodynamic mechanisms. Kresh JY, et al. **Technol Health Care** 1997 Apr;5(1-2):159–69 (30 ref.)

Structure conditions function and vice versa [editorial] Lunkenheimer PP. **Technol Health Care** 1997 Apr; 5(1-2):1–12 (84 ref.)

12-hour preservation of rat hearts with "fabrique d'implants et d'instruments" or University of Wisconsin oxygenated microperfused cardioplegic solution. Bauza G, et al. **Transplant Proc** 1996 Oct;28(5):2899

Transplanted cardiomyocytes survive in scar tissue and improve heart function. Jia ZQ, et al. **Transplant Proc** 1997 Jun;29(4):2093–4

Human CD46 but not CD59 in transgenic mice protects against hyperacute rejection evoked by ex vivo perfusion with human serum. Marquet RL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):931–2

Efficacy of perfluorotributylamine/pluronic F-68 stem-emulsion (FC43se) against reperfusion injury in ischemic rabbit lungs. Ueno T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1349–53

The role of a hydroxyl radical scavenger (nicaraven) in recovery of cardiac function following preservation and reperfusion. Ku K, et al. **Transplantation** 1996 Oct 27; 62(8):1090–5

Influences of dietary omega-3 polyunsaturated fatty acids on the recovery of cardiac and renal functions after preservation in hyperlipidemic rats. Ku K, et al. **Transplantation** 1997 Aug 15;64(3):399–404

Prevention of hyperacute rejection by human decay accelerating factor in xenogeneic perfused working hearts. Schmoeckel M, et al. **Transplantation** 1996 Sep 27; 62(6):729–34

Effects of pulsed ultrasound on the frog heart: III. The radiation force mechanism. Dalecki D, et al. **Ultrasound Med Biol** 1997;23(2):275–85

Influence of preload, afterload, and contractility on myocardial ultrasonic tissue characterization with integrated backscatter. Naito J, et al. **Ultrasound Med Biol** 1996;22(3):305–12

Doppler-echocardiography study of cardiac function during a 36 atm (3,650 kPa) human dive. Lafay V, et al. **Undersea Hyperb Med** 1997 Jun;24(2):67–71

Computerized ECG recording in horses during a standardized exercise test. Scheffer CJ, et al. **Vet Q** 1996 Mar;18(1):2–7

[Characterization of outward current in mouse ventricular myocytes] Zhou J, et al. **Sheng Li Hsueh Pao** 1995 Dec; 47(6):535–43 (Eng. Abstr.) **(Chi)**

[Effect of neurotoxins on the electrical activity and contraction of the heart muscle] Sauviat MP. **C R Seances Soc Biol Fil** 1997;191(3):451–71 (122 ref.) (Eng. Abstr.) **(Fre)**

[Standards for the practice of cardiac electrophysiology in adults. Subcommittee on Electrophysiology. Committee on Standards of the Canadian Society of Cardiology] Mitchell LB, et al. **Can J Cardiol** 1996 Aug;12(8):726–32 **(Fre)**

[Cardiological fitness examination of the athlete and prevention of sudden death] Tomas M. **Rev Med Brux** 1996 Sep;17(4):176–80 (Eng. Abstr.) **(Fre)**

[Pseudodefects in myocardial SPECT after implantation of defibrillator patches: phantom measurement with SPECT and PET] Buchert R, et al. **Nuklearmedizin** 1996 Dec; 35(6):212–9 (Eng. Abstr.) **(Ger)**

[Computerized assessment of electric heart signals and cardiovascular images] De Biase L, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):491–9 (34 ref.) **(Ita)**

[Biventricular-pulmonary interaction as the prime mechanism in the adaptation of the human heart to orthostatic posture] Guazzi M, et al. **Cardiologia** 1997 Jan; 42(1):69–76 (Eng. Abstr.) **(Ita)**

[The "twist" is good for the heart] Guazzi MD. **Cardiologia** 1997 Apr;42(4):335–6 **(Ita)**

[Automated color-coded detection of endocardial boundary movements "color kinesis"] Mobilia G, et al. **Cardiologia** 1997 Apr;42(4):425–7 **(Ita)**

[The cardiac autocrine-paracrine system in the development of hypertrophy] Neri Serneri GG, et al. **Cardiologia** 1997 Jan;42(1):11–9 (100 ref.) **(Ita)**

[Myocardial viability in patients with chronic ischemic heart disease and left ventricular dysfunction. Diagnostic methods and clinical significance] Perrone Filardi P, et al. **Cardiologia** 1996 Aug;41(8):707–26 (111 ref.) **(Ita)**

[The cardiac renin-angiotensin system and its role in ventricular hypertrophy associated with arterial hypertension] Rubattu S, et al. **Cardiologia** 1997 Jan; 42(1):47–50 (36 ref.) **(Ita)**

[Cardiac adaptation and maladaptation (editorial)] Visioli O, et al. **Cardiologia** 1996 Oct;41(10):919–28 (72 ref.) **(Ita)**

[Anesthesia and heart function] Suga H. **Masui** 1996 Dec;45 Suppl:S1–5 (18 ref.) **(Jpn)**

[Verification of accuracy of several algorithms to quantitate left ventricular regional wall motion: a study using cine MR imaging with myocardial tagging] Terashima M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Sep; 56(11):720–5 (Eng. Abstr.) **(Jpn)**

[Cardiomyopathy and enlarged hearts of athletes] Sugishita Y. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):473–6 (4 ref.) **(Jpn)**

[Electrophysiology of cardiac ion channels] Hirano Y, et al. **Nippon Rinsho** 1996 Aug;54(8):2050–5 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Signal transduction system in cardiac cells] Kaibara M, et al. **Nippon Rinsho** 1996 Aug;54(8):2041–4 (4 ref.) (Eng. Abstr.) **(Jpn)**

[Assessment of coronary artery lesions and myocardial viability by pharmacological stress echocardiography] Senda S, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:615–8 (9 ref.) **(Jpn)**

[Cardiac functional analysis with cine MR imaging] Tachiki S, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:630–3 (10 ref.) **(Jpn)**

[Athlete's heart] Sunagawa O, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):578–81 (18 ref.) **(Jpn)**

[Changes in lipid contents of the myocardium in rats during physical loading after long-term hypokinetic stress] Khanina NIa, et al. **Aviakosm Ekolog Med** 1997;31(3):23–7 (Eng. Abstr.) **(Rus)**

[Hemodynamic structure of antiorthostatic reactions: relationship of mechanical activity of the heart and arterial pressure] Osadchiĭ LI, et al. **Aviakosm Ekolog Med** 1997; 31(3):19–23 (Eng. Abstr.) **(Rus)**

[A system for computer visualization of excitation wave propagation in the myocardium] Sarancha DIu, et al. **Biofizika** 1997 Mar-Apr;42(2):502–7 (Eng. Abstr.) **(Rus)**

[The effect of adrenaline and 17beta-estradiol sulfate on transmembrane potentials of guinea pig cardiomyocytes] Kobrin VI, et al. **Biull Eksp Biol Med** 1996 Dec; 122(12):611–3 **(Rus)**

[Reproducibility of primary cardiac rhythm in newborn rats] Kuznetsov SV. **Biull Eksp Biol Med** 1994 Apr;117(4):422–4 **(Rus)**

[Effect of opiate receptor ligands on the morpho-functional state of the sympathico-adrenal system and electrical stability of the heart in acute exposure to cold] Lishmanov IuB, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):154–7 **(Rus)**

[Ontogenetic dynamics of blood pressure and characteristics of EKG in rats of NISAG line with congenital arterial hypertension] Makhanova NA, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):709–13 **(Rus)**

[To what extent is cardiac work capacity preserved after long periods of clinical death under hypothermia?] Aliukhin IuS. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):72–7 (Eng. Abstr.) **(Rus)**

[The correlation of cardiac mechanical activity and arterial pressure in the hemodynamic postural reactions of rats] Osadchiĭ LI, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct; 81(10):59–69 (Eng. Abstr.) **(Rus)**

[The formation of cardiac-electric-field potentials on the surface of the heart and torso in vertebrate animals] Shmakov DN, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):51–8 (29 ref.) (Eng. Abstr.) **(Rus)**

[The morphological and age-related prerequisites for distinguishing the structural-functional myocardial units, the "myocardioangion" and the "myocardiohistion"] Mishalov VD. **Morfologiia** 1995;108(3):49–52 (Eng. Abstr.) **(Rus)**

[Comprehensive evaluations of the action of galvanic current dosages used in physiotherapy on the intact myocardium

in an experiment] Mrochek AG, et al. **Patol Fiziol Eksp Ter** 1996 Apr–Jun;(2):15–8 (Eng. Abstr.) **(Rus)**

[The role of the opioid system in body adaptation and protection of the heart in stress] Lishmanov IuB, et al. **Usp Fiziol Nauk** 1997 Jan–Mar;28(1):75–96 (120 ref.) (Eng. Abstr.) **(Rus)**

[The role of the endothelium and of biologically active substances of endothelial origin in regulating blood circulation and cardiac activity] Moĭbenko OO, et al. **Fiziol Zh** 1997;43(1–2):3–18 (70 ref.) (Eng. Abstr.) **(Ukr)**

PHYSIOPATHOLOGY

Prolongation of the QTc interval during alcohol withdrawal syndrome. Otero–Antón E, et al. **Acta Cardiol** 1997; 52(3):285–94

Changes in the genetic expression of membrane proteins as a determinant of myocardial dysfunction. Swynghedauw B. **Acta Cardiol** 1996;51(4):301–14

Impact of hemodialysis on comprehensive ventricular repolarization. Tuncer C, et al. **Acta Cardiol** 1997; 52(3):305–12

Evaluation of myocardial muscle functional parameters in patients with multiple sclerosis. Ziaber J, et al. **Acta Neurol Scand** 1997 Jun;95(6):335–7

The effect of chronic diazepam treatment on hypoxia–induced alterations in functional activity of guinea pig myocardium. Ujfalusi A, et al. **Acta Physiol Hung** 1996; 84(3):345–6

Drifting vortices of electrical waves underlie ventricular fibrillation in the rabbit heart. Jalife J, et al. **Acta Physiol Scand** 1996 Jun;157(2):123–31

Early impairment of systolic and diastolic function in asymptomatic HIV–positive patients: a multicenter echocardiographic and echo–Doppler study. The Gruppo Italiano Per lo Studio Cardiologico dei Pazienti Affetti da AIDS. Barbaro G, et al. **AIDS Res Hum Retroviruses** 1996 Nov 1;12(16):1559–63

Myocardial viability: methods of assessment and clinical relevance. Iskandrian AS, et al. **Am Heart J** 1996 Dec; 132(6):1226–35 (81 ref.)

Short–term reproducibility of cardiopulmonary measurements during exercise testing in patients with severe chronic heart failure. Meyer K, et al. **Am Heart J** 1997 Jul;134(1):20–6

Risk for exercise–induced myocardial injury for athletes performing prolonged strenuous endurance exercise [letter; comment] Mair J, et al. **Am J Cardiol** 1997 Aug 15; 80(4):543–4. Comment on: Am J Cardiol 1996 Aug 15;78(4):488–90.

Increased QT dispersion and cardiac adrenergic dysinnervation in diabetic patients with autonomic neuropathy. Shimabukuro M, et al. **Am J Cardiol** 1996 Nov 1;78(9):1057–9

Nutritional status and cardiac mass and function in children infected with the human immunodeficiency virus. Miller TL, et al. **Am J Clin Nutr** 1997 Sep;66(3):660–4

Cardiovascular, renal, and neurohumoral responses to single large–volume paracentesis in patients with cirrhosis and diuretic–resistant ascites [see comments] Peltekian KM, et al. **Am J Gastroenterol** 1997 Mar;92(3):394–9. Comment in: Am J Gastroenterol 1997 Mar;92(3):371–3.

Nitric oxide synthase inhibition by N(omega)–nitro–L–arginine methyl ester modulates G–protein expression and adenylyl cyclase activity in rat heart. Di Fusco F, et al. **Am J Hypertens** 1997 Apr;10(4 Pt 1):471–5

Association of cardiac autonomic function and the development of hypertension: the ARIC study. Liao D, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1147–56

Ca(2+)–dependent outward currents in myocytes from epicardial border zone of 5–day infarcted canine heart. Aggarwal R, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1386–94

Cardiac memory: a mechanical and electrical phenomenon. Alessandrini RS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1952–9

A chloride current component induced by hypertrophy in rat ventricular myocytes. Bénitah JP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2500–6

Relationship between cardiac function and substrate oxidation in hearts of diabetic rats. Chatham JC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H52–8

Heat stress protects aged hypertrophied and nonhypertrophied rat hearts against ischemic damage. Cornelussen RN, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1333–41

Mechanical regulation of myocardial growth during volume–overload hypertrophy in the rat. Emery JL, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1198–204

Modulation of electrical heterogeneity by compensated hypertrophy in rat left ventricle. Gómez AM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1078–86

Heat stress protects the perfused rabbit heart from complement–mediated injury. Gralinski MR, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H571–8

Sympathovagal balance of the heart in subjects with spinal cord injury. Grimm DR, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H835–42

Myocardial temperature in acute myocardial infarction: protection with mild regional hypothermia. Hale SL, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H220–7

Impaired pyruvate oxidation but normal glucose uptake in diabetic pig heart during dobutamine–induced work. Hall JL, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2320–9

Enhancement of glucose uptake in stunned myocardium: role of glucose transporter. Hashimoto K, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1122–30

Cellular basis for burn–mediated cardiac dysfunction in adult rabbits. Horton JW. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2615–21

Effects of pressure– or volume–overload hypertrophy on passive stiffness in isolated adult cardiac muscle cells. Kato S, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2575–83

Effect of 3–aminotriazole on hyperthermia–mediated cardioprotection in rabbits. Kingma JG Jr, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1165–71

Role of activation of ectosolic 5'–nucleotidase in the cardioprotection mediated by opening of K+c channels. Kitakaze M, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1744–56

Atrial natriuretic peptide expression in rats with different pulmonary hypertensive responses to hypoxia. Klinger JR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H411–7

Molecular analysis of insulin resistance in isolated ventricular cardiomyocytes of obese Zucker rats. Kolter T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E59–67

Hemorrhage induces acute cardioadaptation to ischemia–reperfusion by an alpha1–adrenoceptor–mediated, protein synthesis–independent mechanism. Meldrum DR, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R718–25

Protein kinase C mediates Ca2(+)–induced cardioadaptation to ischemia–reperfusion injury. Meldrum DR, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R718–26

Dynamics of myocardial adaptation to low–flow ischemia and hypoxemia. Merati G, et al. **Am J Physiol** 1996 Dec; 271(6 Pt 2):H2300–5

Three–dimensional activation sequence of cesium–induced ventricular arrhythmias. Murakawa Y, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1377–85

LPS–induced delayed myocardial adaptation enhances acute preconditioning to optimize postischemic cardiac function. Rowland RT, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2708–15

Schedule–induced psychological stress and molecular structures of cardiomyocytes. Rupp H, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R776–82

Innate protection of baboon myocardium: effects of coronary artery occlusion and reperfusion. Shen YT, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1812–8

Basic determinants of epicardial transudation. Stewart RH, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1408–14

New mechanoenergetic evaluation of left ventricular contractility in in situ rat hearts. Tachibana H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2671–8

Relationship between external load and isolated myocyte contractile function with CHF in pigs. Wang Z, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H183–91

Left ventricular parallel conductance during cardiac cycle in children with congenital heart disease. White PA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H295–302

Habitual exercise attenuates myocardial stiffness in diabetes mellitus in rats. Woodiwiss AJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2126–33

Alpha 1–adrenergic stimulation induces cardiac tolerance to hypoxia via induction and activation of Mn–SOD. Yamashita N, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1356–62

Regulation of sodium current development in cultured atrial tumor myocytes (AT–1 cells). Yang T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H541–7

Characterization of Trypanosoma cruzi populations by zymodemes: correlation with clinical picture. Montamat EE, et al. **Am J Trop Med Hyg** 1996 Dec;55(6):625–8

Thoracic epidural anesthesia improves functional recovery from myocardial stunning in conscious dogs [see comments] Rolf N, et al. **Anesth Analg** 1996 Nov;83(5):935–40. Comment in: Anesth Analg 1997 Aug;85(2):465–6.

Hemodynamic consequences of stenosis remodeling during coronary angioplasty. Back MR, et al. **Angiology** 1997 Feb; 48(2):99–109

The influence of myocardial temperature on stunning following coronary revascularization. Engelman RM, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:319–27

Adaptive defense of the organism. Architecture of the structural trace and cross protective effects of adaptation. Meerson FZ, et al. **Ann N Y Acad Sci** 1996 Sep 30; 793:371–85 (40 ref.)

Endotoxemia and oxidative stress. Pattanaik U, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:506–10

Depressed function in remote myocardium after myocardial infarction: influence of orotic acid. Cochrane AD, et al. **Ann Thorac Surg** 1996 Dec;62(6):1765–72

Calcitonin gene–related peptide–induced preconditioning improves preservation with cardioplegia. Lu EX, et al. **Ann Thorac Surg** 1996 Dec;62(6):1748–51

Relationship between cardiopulmonary response to exercise and adiposity in survivors of childhood malignancy. Warner JT, et al. **Arch Dis Child** 1997 Apr;76(4):298–303

Induction of ventricular fibrillation by T–wave field–shocks in the isolated perfused rabbit heart: role of nonuniform shock responses. Kirchhof PF, et al. **Basic Res Cardiol** 1997 Feb;92(1):35–44

The oxygen wasting effect of isoproterenol is altered by chemical denervation and cardiac hypertrophy. Scholz PM, et al. **Basic Res Cardiol** 1996 Jul–Aug;91(4):308–18

Inotropic reserve and histological appearance of hibernating myocardium in conscious pigs with ameroid–induced coronary stenosis. Shen YT, et al. **Basic Res Cardiol** 1996 Nov–Dec;91(6):479–85

Mast cell degranulation does not contribute to ischemic preconditioning in isolated rabbit hearts. Wang P, et al. **Basic Res Cardiol** 1996 Nov–Dec;91(6):458–67

Effect of the renin–angiotensin–aldosterone system on the cardiac interstitium in heart failure. Wilke A, et al. **Basic Res Cardiol** 1996;91 Suppl 2:79–84 (33 ref.)

Breathing retraining: a three–year follow–up study of treatment for hyperventilation syndrome and associated functional cardiac symptoms. DeGuire S, et al. **Biofeedback Self Regul** 1996 Jun;21(2):191–8

Beta–andrenoceptors in the hearts of diabetic–hypertensive rats: radioligand binding and functional experiments. Beenen OH, et al. **Blood Press** 1997 Jan;6(1):44–51

Cardioelectrical field in experimental cardiomegaly in rats. Bernadić M, et al. **Bratisl Lek Listy** 1996 Sep;97(9):543–9

The uniform double layer model and myocardial infarction: forward solution consideration. Tiňová M, et al. **Bratisl Lek Listy** 1996 Sep;97(9):558–61

Decarto technique in long–term observation of patients treated for primary pulmonary hypertension. Titomir LI, et al. **Bratisl Lek Listy** 1996 Sep;97(9):536–42

Electrophysiological approach of the role of Na+/H+ exchange in low–flow global ischemia and in ischemic preconditioning. Perchenet L, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):120–7

Different preconditioning stimuli invoke disparate electromechanical and energetic responses to global ischemia in rat hearts. Rehring TF, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):335–42

Measuring cardiac output in critically Ill patients: disagreement between thermodilution–, calculated–, expired gas–, and oxygen consumption–based methods. Sherman MS, et al. **Cardiology** 1997 Jan–Feb;88(1):19–25

Tedisamil increases coherence during ventricular fibrillation and decreases defibrillation energy requirements. Dorian P, et al. **Cardiovasc Res** 1997 Feb;33(2):485–94

Myocardial tissue perfusion determined by particulate and diffusible tracers during ischaemia: what is measured? Fluck DS, et al. **Cardiovasc Res** 1996 Nov;32(5):869–78

Early and late effect of neonatal hypo– and hyperthyroidism on coronary capillary geometry and long–term heart function in rat. Heron MI, et al. **Cardiovasc Res** 1997 Jan; 33(1):230–40

Effects of low–flow ischemia on the positive inotropic action of angiotensin II in isolated rabbit and rat hearts. Libonati JR, et al. **Cardiovasc Res** 1997 Jan;33(1):71–81

Arrhythmogenesis in experimental models of heart failure: the role of increased load. Pye MP, et al. **Cardiovasc Res** 1996 Aug;32(2):248–57

Prolonged ejection duration helps to maintain pump performance of the renal–hypertensive–diabetic rat heart: correlations between isolated papillary muscle function and ventricular performance in situ. Siri FM, et al. **Cardiovasc Res** 1997 Apr;34(1):230–40

Magnesium abolishes inadequate kinetics of frequency adaptation of the Q–aT interval in the presence of sotalol. Stark G, et al. **Cardiovasc Res** 1997 Jul;35(1):43–51

Cardiac depression after experimental air embolism in pigs: role of addition of a surface–active agent. van Blankenstein JH, et al. **Cardiovasc Res** 1997 Jun;34(3):473–82

Role of interventricular dispersion of repolarization in acquired torsade–de–pointes arrhythmias: reversal by magnesium. Verduyn SC, et al. **Cardiovasc Res** 1997 Jun; 34(3):453–63

Oxygen uptake kinetics and cardiopulmonary performance in lone atrial fibrillation and the effects of sotalol. Lok NS, et al. **Chest** 1997 Apr;111(4):934–40

Compensatory mechanisms associated with the hyperdynamic function of phospholamban–deficient mouse hearts. Chu G, et al. **Circ Res** 1996 Dec;79(6):1064–76

Changes in cell–to–cell electrical coupling associated with left ventricular hypertrophy. Cooklin M, et al. **Circ Res** 1997 Jun;80(6):765–71

Na(+)–H+ exchange inhibition protects against mechanical, ultrastructural, and biochemical impairment induced by low concentrations of lysophosphatidylcholine in isolated rat hearts. Hoque AN, et al. **Circ Res** 1997 Jan;80(1):95–102

Simulated ischemia increases the susceptibility of rat cardiomyocytes to hypercontracture. Ladilov YV, et al. **Circ Res** 1997 Jan;80(1):69–75

Cardiac efficiency is improved after ischemia by altering both the source and fate of protons. Liu B, et al. **Circ Res** 1996 Nov;79(5):940–8

Myocyte adaptation to chronic hypoxia and development of tolerance to subsequent acute severe hypoxia. Silverman HS, et al. **Circ Res** 1997 May;80(5):699–707

Increased tolerance of the chronically hypoxic immature heart to ischemia. Contribution of the KATP channel. Baker JE, et al. **Circulation** 1997 Mar 4;95(5):1278–85

Cardiac risk stratification for high–risk vascular surgery. Bartels C, et al. **Circulation** 1997 Jun 3;95(11):2473–5

Comparison of 201Tl scintigraphy and low–dose dobutamine echocardiography for the noninvasive assessment of myocardial viability [editorial; comment] Beller GA. **Circulation** 1996 Dec 1;94(11):2681–4. Comment on: Circulation 1996 Dec 1;94(11):2712–9.

Identification of viable myocardium [editorial; comment] Bonow RO. **Circulation** 1996 Dec 1;94(11):2674–80 (82 ref.) . Comment on: Circulation 1996 Dec 1;94(11):2712–9.

Extracellular superoxide dismutase transgene overexpression preserves postischemic myocardial function in isolated murine hearts. Chen EP, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II412–7

Cardiopulmonary baroreflex control of human renal cortical blood flow [letter; comment] Eckberg DL. **Circulation** 1997 Aug 5;96(3):1044–5. Comment on: Circulation 1995 Aug 1;92(3):395–401.

Diltiazem improves cardiac function and exercise capacity in patients with idiopathic dilated cardiomyopathy. Results of the Diltiazem in Dilated Cardiomyopathy Trial. Figulla HR, et al. **Circulation** 1996 Aug 1;94(3):346–52

Influence of isoproterenol and ouabain on excitation–contraction coupling, cross–bridge function, and energetics in failing human myocardium. Hasenfuss G, et al. **Circulation** 1996 Dec 15;94(12):3155–60

17 beta–Estradiol prevents dysfunction of canine coronary endothelium and myocardium and reperfusion arrhythmias after brief ischemia/reperfusion. Kim YD, et al. **Circulation** 1996 Dec 1;94(11):2901–8

Subendocardial and intramural temperature response during radiofrequency catheter ablation in chronic myocardial infarction and normal myocardium. Kottkamp H, et al. **Circulation** 1997 Apr 15;95(8):2155–61

Downregulation of angiotensin II receptor type 1 in heart failure. A process of adaptation or deterioration? [editorial; comment] Kurabayashi M, et al. **Circulation** 1997 Mar 4; 95(5):1104–7 (30 ref.). Comment on: Circulation 1997 Mar 4;95(5):1193–200.

Nitric oxide/carbon monoxide. A molecular switch for myocardial preservation during ischemia. Maulik N, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II398–406

Improved outcome after coronary bypass surgery in patients with ischemic cardiomyopathy and residual myocardial viability. Pagley PR, et al. **Circulation** 1997 Aug 5; 96(3):793–800

Ischemic preconditioning: differences in protection and susceptibility to blockade with single–cycle versus multicycle transient ischemia. Sandhu R, et al. **Circulation** 1997 Aug 5;96(3):984–95

Postextrasystolic potentiation and dobutamine echocardiography in predicting recovery of myocardial function after coronary bypass revascularization. Scognamiglio R, et al. **Circulation** 1997 Aug 5;96(3):816–20

Elucidating the mechanisms of atrial flutter cycle length variability using power spectral analysis techniques. Stambler BS, et al. **Circulation** 1996 Nov 15;94(10):2515–25

Load–induced growth responses in isolated adult rat hearts. Role of the AT1 receptor. Thienelt CD, et al. **Circulation** 1997 Jun 17;95(12):2677–83

Functional recovery after human heart transplantation is related to the metabolic condition of the hypothermic donor heart. Van Dobbenburgh JO, et al. **Circulation** 1996 Dec 1;94(11):2831–6

Circadian variation in defibrillation energy requirements. Venditti FJ Jr, et al. **Circulation** 1996 Oct 1;94(7):1607–12

Assessment of myocardial viability by use of 11C–acetate and positron emission tomography. Threshold criteria of reversible dysfunction. Wolpers HG, et al. **Circulation** 1997 Mar 18;95(6):1417–24

High–energy defibrillation increases the severity of postresuscitation myocardial dysfunction. Xie J, et al. **Circulation** 1997 Jul 15;96(2):683–8

The effect of iron overload in the hearts of patients with beta–thalassemia. Brili SV, et al. **Clin Cardiol** 1997 Jun; 20(6):541–6

Cardiac repolarization interval in end–stage diabetic and nondiabetic renal disease. Kirvelä M, et al. **Clin Cardiol** 1997 Sep;20(9):791–6

Exercise capacity in heart failure patients: relative importance of heart and skeletal muscle. Magnusson G, et al. **Clin Physiol** 1996 Mar;16(2):183–95

Abnormal mechanical function in diabetes: relationship to altered myocardial carbohydrate/lipid metabolism. Lopaschuk GD. **Coron Artery Dis** 1996 Feb;7(2):116–23 (124 ref.)

Peroxynitrite, the product of nitric oxide and superoxide, causes myocardial injury in the isolated perfused rat heart. Lopez BL, et al. **Coron Artery Dis** 1997 Mar–Apr; 8(3–4):149–53

Abnormal mechanical function in diabetes: relation to myocardial calcium handling. Schaffer SW, et al. **Coron Artery Dis** 1996 Feb;7(2):109–15 (51 ref.)

Clinical abnormalities of cardiac function and echocardiographic tissue characterization in diabetes mellitus. Tischler MD. **Coron Artery Dis** 1996 Feb; 7(2):139–42 (29 ref.)

Nitric oxide does not mediate lipopolysaccharide–induced myocardial depression in guinea pigs. Toth I, et al. **Crit Care Med** 1997 Apr;25(4):684–8

Update on local cardiac renin–angiotensin system. Ruzicka M, et al. **Curr Opin Cardiol** 1997 Jul;12(4):347–53 (30 ref.)

Cardiac and glycemic benefits of troglitazone treatment in NIDDM. The Troglitazone Study Group. Ghazzi MN, et al. **Diabetes** 1997 Mar;46(3):433–9

Diabetic autonomic neuropathy and the heart. Ewing DJ. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:31–6 (29 ref.)

Sequence of alterations in subcellular organelles during the development of heart dysfunction in diabetes. Takeda N, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:113–22

Relationship between diastolic hypertension and myocardial morphology and function in elderly males with diabetes mellitus. Lind L, et al. **Diabetologia** 1996 Dec;39(12):1603–6

Adrenomedullin gene expression in the rat heart is stimulated by acute pressure overload: blunted effect in experimental hypertension. Romppanen H, et al. **Endocrinology** 1997 Jun; 138(6):2636–9

Myocardial hibernation. A form of endogenous protection? Hearse DJ. **Eur Heart J** 1997 Jan;18 Suppl A:A2–7 (28 ref.)

Functional and ultrastructural alterations of canine myocardium subjected to very brief coronary occlusions. Pomar F, et al. **Eur Heart J** 1995 Nov;16(11):1482–90

Cardiorespiratory and metabolic adaptations to hyperoxic training. Ploutz–Snyder LL, et al. **Eur J Appl Physiol** 1996; 73(1–2):38–48

Improvement of heart–, lung–, and liver–performance during mechanical circulatory support by the Novacor–system. Roell W, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1045–51

Heart failure: can it be defined? Tan LB, et al. **Eur J Clin Pharmacol** 1996;49 Suppl 1:S11–8

Hyperbaric oxygen worsens myocardial low flow ischemia–reperfusion injury in isolated rat heart. Radice S, et al. **Eur J Pharmacol** 1997 Feb 5;320(1):43–9

Heart–lung interactions: applications in the critically ill. Fessler HE. **Eur Respir J** 1997 Jan;10(1):226–37 (105 ref.)

Effect of gliclazide on the functional response to calcium in diabetic rat heart. Shinzato T, et al. **Gen Pharmacol** 1996 Apr;27(3):471–5

Characteristics of the ventricular transient outward potassium current in genetic rodent models of diabetes. Rusznák Z, et al. **Gen Physiol Biophys** 1996 Jun;15(3):225–38

Apoptosis in cardiovascular disease. Davies MJ. **Heart** 1997 Jun;77(6):498–501 (32 ref.)

Impaired left ventricular filling dynamics in patients with angina and angiographically normal coronary arteries: effect of beta adrenergic blockade. Fragasso G, et al. **Heart** 1997 Jan;77(1):32–9

Attenuation or absence of circadian and seasonal rhythms of acute myocardial infarction. Sayer JW, et al. **Heart** 1997 Apr;77(4):325–9

Impairment of the myocardial vasomotor response to cold pressor stress in collateral dependent myocardium. Uren NG, et al. **Heart** 1997 Jul;78(1):61–7

Major risk factors for atherosclerosis are manifested in experimental Ca–deficiency. Koide M, et al. **Hypertens Res** 1996 Jun;19 Suppl 1:S35–40

Distinct mechanisms of modulation of angiotensin II type I receptor gene expression in heart and aorta. Wang DH, et al. **Hypertension** 1997 May;29(5):1104–8

Effect of vitamin D deficiency on electrocardiogram of rats. Sood S, et al. **Indian J Exp Biol** 1995 Jan;33(1):61–3

Antigen–evoked mast cell degranulation in the isolated rat heart: no effect on subsequent ischemia–reperfusion induced damage. Engels W, et al. **Inflamm Res** 1997 Feb; 46(2):40–5

Palpitations: what is the mechanism, and when should we treat them? Rosano GM, et al. **Int J Fertil Womens Med** 1997 Mar–Apr;42(2):94–100 (23 ref.)

Electrocardiographic QTC interval: short–term weight loss effects. Pietrobelli A, et al. **Int J Obes Relat Metab Disord** 1997 Feb;21(2):110–4

Evaluation of K–space segmented cine sequences for fast functional cardiac imaging. Schülen V, et al. **Invest Radiol** 1996 Aug;31(8):512–22

Optical mapping of drug–induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart [see comments] Asano Y, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):831–42. Comment in: J Am Coll Cardiol 1997 Mar 15;29(4):843–5.

Can nitrogen–13 ammonia kinetic modeling define myocardial viability independent of fluorine–18 fluorodeoxyglucose? Beanlands RS, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):537–43

Effects of afterload–reducing drugs on pathogenesis of antioxidant changes and congestive heart failure in rats. Khaper N, et al. **J Am Coll Cardiol** 1997 Mar 15; 29(4):856–61

Twisting of the points [editorial; comment] Lazzara R. **J Am Coll Cardiol** 1997 Mar 15;29(4):843–5. Comment on: J Am Coll Cardiol 1997 Mar 15;29(4):831–42.

Comparison of baseline–nitrate technetium–99m sestamibi with rest–redistribution thallium–201 tomography in detecting viable hibernating myocardium and predicting postrevascularization recovery. Sciagrà R, et al. **J Am Coll Cardiol** 1997 Aug;30(2):384–91

The effects of hypokalemia on the heart. Dietz T, et al. **J Ark Med Soc** 1997 Jul;94(2):79–81

Heart in hypothyroidism––an echocardiographic study. Varma R, et al. **J Assoc Physicians India** 1996 Jun; 44(6):390–2

Is the heart "empty' at syncope? Novak V, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1–2):83–92

Prolonged use of propranolol safely decreases cardiac work in burned children. Baron PW, et al. **J Burn Care Rehabil** 1997 May–Jun;18(3):223–7

Deficient cellular cyclic AMP may cause both cardiac and skeletal muscle dysfunction in heart failure. Grossman JD, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S105–11

The role of the cardiac renin–angiotensin system in load–induced cardiac hypertrophy. Sadoshima J, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S1–6 (43 ref.)

Caval occlusion alters the shape of the ischemic and nonischemic pressure–length loop. Piriou V, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):445–52

Effects of a class III antiarrhythmic drug and biphasic shocks on the postdefibrillation refractory period of relatively refractory myocardium. Murakawa Y, et al. **J Cardiovasc Electrophysiol** 1996 Jul;7(7):603–11

Local electrogram changes in response to a high–voltage intracardiac shock in humans. Smith JR, et al. **J Cardiovasc Electrophysiol** 1996 May;7(5):387–97

Influence of the low thyroid state in diabetes mellitus on cardiac function and inotropic responsiveness to alpha 1–adrenoceptor stimulation: comparison with the role of hypothyroidism alone. Beenen OH, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):553–7

Hysteresis in atrial refractoriness in the conscious dog: influence of stimulation parameters and control by the autonomic nervous system. Boucher M, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):842–7

Beneficial actions of preconditioning and stretch on postischemic contractile function of isolated working rat heart: effects of staurosporine. Obadia JF, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):191–6

Role of endothelin in a rabbit model of acute myocardial infarction: effects of receptor antagonists. Vitola JV, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):774–83

Evaluation of irradiated heart volumes in stage I breast cancer patients treated with postoperative adjuvant radiotherapy. Gyenes G, et al. **J Clin Oncol** 1997 Apr; 15(4):1348–53

Acromegalic cardiomyopathy: evaluation of the left ventricular diastolic function in the subclinical stage. Ozbey N, et al. **J Endocrinol Invest** 1997 Jun;20(6):305–11

Microalbuminuria, renal dysfunction and cardiovascular complication in essential hypertension. Cerasola G, et al. **J Hypertens** 1996 Jul;14(7):915–20

Reduction in external K causes increased action potential shortening in ventricular myocytes from the spontaneously hypertensive rat. Evans SJ, et al. **J Hypertens** 1997 Jun; 15(6):659–66

ECG of the month. "Watts" up, doc? Artificial cardiac pacemaker. Martinez–Lopez JI. **J La State Med Soc** 1996 Oct;148(10):409–11

MR imaging characterization of postischemic myocardial dysfunction ("stunned myocardium"): relationship between functional and perfusion abnormalities. Szolar DH, et al. **J Magn Reson Imaging** 1996 Jul–Aug;6(4):615–24

Preconditioning in globally ischemic isolated rat hearts: effect on function and metabolic indices of myocardial damage. Arad M, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2479–90

KATP channel activation in a rabbit model of chronic myocardial hypoxia. Baker JE, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):845–8

Progressive decrease in the ST segment elevation during ischemic preconditioning: is it related to recruitment of collateral vessels? Birnbaum Y, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1493–9

Improvement of hibernation in the clinical setting. Brunelli C, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2415–8

Maturational differences in bioenergetic state and purine formation during "supply" and "demand" ischemia. Matherne GP, et al. **J Mol Cell Cardiol** 1996 May; 28(5):1143–55

Aging, cardiac hypertrophy and ischemic cardiomyopathy do not affect the proportion of mononucleated and multinucleated myocytes in the human heart. Olivetti G, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1463–77

Metabolic and functional consequences of successive no–flow and sustained low–flow ischaemia; a 31P MRS study in rat hearts. van Binsbergen XA, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2373–81

Protection of ischemic preconditioning is dependent upon a critical timing sequence of protein kinase C activation. Yang XM, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):991–9

Cardiac autonomic regulation during sleep in panic disorder [letter] Ferini–Strambi L, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):421–2

Fast technetium 99m–labeled sestamibi gated single–photon emission computed tomography for evaluation of myocardial function. Mazzanti M, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):143–9

Onion skin and functionality in congenital heart disease [editorial; comment] Cyran SE. **J Pediatr** 1997 Aug; 131(2):178–9. Comment on: J Pediatr 1997 Aug;131(2):210–4.

Cardiorespiratory function before and after corrective surgery in pectus excavatum [letter; comment] Driscoll DJ, et al. **J Pediatr** 1996 Dec;129(6):943–4. Comment on: J Pediatr 1996 May;128(5 Pt 1):638–43.

Extracellular Mg++ manipulation prevents the proarrhythmic activity of cromakalim in ischemic/reperfused diabetic hearts. Tosaki A, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):309–17

Restoration of the transient outward potassium current by noradrenaline in chagasic canine epicardium. Han W, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):75–83

Reduction in heart rate variability in patients with systemic lupus erythematosus. Laversuch CJ, et al. **J Rheumatol** 1997 Aug;24(8):1540–4

Acute increase of myocardial workload, hemodynamic instability, and myocardial histological changes induced by brain death in the cat. Bruinsma GJ, et al. **J Surg Res** 1997 Feb 15;68(1):7–15

Oxygen free radicals contribute to postburn cardiac cell membrane dysfunction. Horton JW. **J Surg Res** 1996 Feb 15;61(1):97–102

Relationship between energetic, ionic, and functional status in the perfused rat heart following thermal injury: a 31P and 23Na NMR study. Xia ZF, et al. **J Surg Res** 1997 Apr;69(1):212–9

Two biophysical mechanisms of defibrillation of cardiac tissue. Pumir A, et al. **J Theor Biol** 1997 Mar 21; 185(2):189–99

Metabolic and hemodynamic effects of intravenous glutamate infusion early after coronary operations. Svedjeholm R, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1468–77

Abnormal Q wave, ST-segment elevation, T-wave inversion, and widespread focal myocytolysis associated with subarachnoid hemorrhage. Sakamoto H, et al. **Jpn Circ J** 1996 Apr;60(4):254–7

Adult Still's disease with myocardial dysfunction induced by microangiopathy. Ueda T, et al. **Jpn Circ J** 1997 Jan; 61(1):74–7

Enhancement of the cardiac beta-adrenergic system at an early diabetic state in spontaneously diabetic Chinese hamsters. Uekita K, et al. **Jpn Circ J** 1997 Jan;61(1):64–73

Cardiac and arterial interactions in end-stage renal disease. London GM, et al. **Kidney Int** 1996 Aug;50(2):600–8

Myocardial, neural and vascular aspects of ischemic preconditioning. Losano G, et al. **Life Sci** 1996; 59(15):1185–92 (61 ref.)

The determination of myocardial viability using Gd-DTPA in a canine model of acute myocardial ischemia and reperfusion. Pereira RS, et al. **Magn Reson Med** 1996 Nov; 36(5):684–93

Assessment of the humane aspects of electric lancing of whales by measurement of current densities in the brain and heart of dead animals. Barnes GR, et al. **Med Biol Eng Comput** 1996 Nov;34(6):436–40

Myocardial fluid balance in acute hypertension. Mehlhorn U, et al. **Microcirculation** 1996 Dec;3(4):371–8

Myocardial fibrosis and right ventricular function of heterotopically transplanted hearts in rats treated with cyclosporin. Kolář F, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:253–60

Role of cardiac renin-angiotensin system in the development of pressure-overload left ventricular hypertrophy in rats with abdominal aortic constriction. Reddy DS, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):1–11

Elucidating molecular mechanisms of septic cardiomyopathy--the cardiomyocyte model. Werdan K, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:291–303 (73 ref.)

Release of calcitonin gene-related peptide in cardiac anaphylaxis. Schuligoi R, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):224–9

Increased intra-abdominal pressure and cardiac filling pressures in obesity-associated pseudotumor cerebri. Sugerman HJ, et al. **Neurology** 1997 Aug;49(2):507–11

AAIR versus DDDR pacing in patients with impaired sinus node chronotropy: an echocardiographic and cardiopulmonary study. Vardas PE, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1762–8

Nonlinear dynamics in ventricular fibrillation. Hastings HM, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10495–9

Angiotensin II type1a receptor gene expression in the heart: AP-1 and GATA-4 participate in the response to pressure overload. Herzig TC, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7543–8

Characterization of human cardiac Na+ channel mutations in the congenital long QT syndrome. Wang DW, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13200–5

KvLQT1, a voltage-gated potassium channel responsible for human cardiac arrhythmias. Yang WP, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4017–21

Peripheral muscle training in patients with clinical signs of heart failure. Cider A, et al. **Scand J Rehabil Med** 1997 Jun;29(2):121–7

SK&F 86002, a dual cytokine and eicosanoid inhibitor, attenuates endotoxin-induced cardiopulmonary dysfunction in the pig. Triplett EA, et al. **Shock** 1996 Nov; 6(5):357–64

Cardiogenic oscillations and airway patency [letter; comment] Pennock BE. **Sleep** 1996 Apr;19(3):255–7. Comment on: Sleep 1995 Oct;18(8):651–8.

Pathophysiological and clinical aspects of the CO2 pneumoperitoneum (CO2-PP). Gebhardt H, et al. **Surg Endosc** 1997 Aug;11(8):864–7

A prospective randomized trial of preoperative "optimization" of cardiac function in patients undergoing elective peripheral vascular surgery. Ziegler DW, et al. **Surgery** 1997 Sep;122(3):584–92

Cardiac systolic and diastolic function at rest and exercise in subclinical hypothyroidism: effect of thyroid hormone therapy. Arem R, et al. **Thyroid** 1996 Oct;6(5):397–402

Electrocardiographic monitoring in severe falciparum malaria. Bethell DB, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun;90(3):266–9

Safe pancreas transplantation in patients with coronary artery disease. Schweitzer EJ, et al. **Transplantation** 1997 May 15;63(9):1294–9

Thresholds for premature contractions in murine hearts exposed to pulsed ultrasound. MacRobbie AG, et al. **Ultrasound Med Biol** 1997;23(5):761–5

Regeneration processes in human myocardium after acute ischaemia--quantitative determination of DNA, cell number and collagen content. Adler CP, et al. **Virchows Arch** 1997 Feb;430(2):149–53

[Repolarisation anomalies simulating anterior myocardial infarction during ischemic cerebrovascular accident] Berdague P, et al. **Arch Mal Coeur Vaiss** 1997 Apr; 90(4):489–91 (Eng. Abstr.) **(Fre)**

[Plasticity of the myocardium in pediatric cardiology] Bonnet D. **Arch Pediatr** 1996 Dec;3(12):1273–5 (12 ref.) (Eng. Abstr.) **(Fre)**

[Loeffler's parietal fibroplastic endocarditis (letter; comment)] Nägelein R. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):802. Comment on: Dtsch Med Wochenschr 1997 Feb 14;122(7):182–7. **(Ger)**

[Combined cardiac surgery and aneurysm of subrenal abdominal aorta] Saccani S, et al. **Acta Biomed Ateneo Parmense** 1995;66(5):209–15 (Eng. Abstr.) **(Ita)**

[Adaptations of the heart and vessels in arterial hypertension] Borghetti A, et al. **Cardiologia** 1997 Feb;42(2):139–48 (129 ref.) **(Ita)**

[Morphofunctional changes induced by acute pressure overload the isolated working rat heart] Di Napoli P, et al. **Cardiologia** 1997 May;42(5):529–31 **(Ita)**

[Ventricular remodelling (editorial)] Guazzi MD. **Cardiologia** 1996 Dec;41(12):1135–6 **(Ita)**

[Mid-term clinical condition and prognosis in adrenergic ventricular tachycardia in children with apparently normal hearts] Drago F, et al. **G Ital Cardiol** 1997 Apr;27(4):349–56 (Eng. Abstr.) **(Ita)**

[Electrophysiologic characteristics of the atrium during chronic atrial fibrillation in man] Pandozi C, et al. **G Ital Cardiol** 1997 Mar;27(3):270–7 (Eng. Abstr.) **(Ita)**

[Secretion of atrial natriuretic peptide from the left ventricle and heart in patients with hypertrophic cardiomyopathy: relationship with hemodynamic and echocardiographic profiles] Ishii Y, et al. **J Cardiol** 1997 Jul;30(1):19–28 (Eng. Abstr.) **(Jpn)**

[Cardiomyoplasty effectiveness: review of the mechanism] Kaneko Y, et al. **J Cardiol** 1996 Mar;27(3):153–7 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Assessment of cardiac functions in patients for coronary artery bypass graft using transesophageal echocardiography before and after cardiopulmonary bypass] Kadoi Y, et al. **Masui** 1996 Jun;45(6):676–80 (Eng. Abstr.) **(Jpn)**

[Angina pectoris: progress in diagnosis and treatment. I. Physiopathology. 3. Cardiac function of the ischemic myocardium] Hori M. **Nippon Naika Gakkai Zasshi** 1997 Feb 10;86(2):201–7 (8 ref.) **(Jpn)**

[Bed-side evaluation of severity and heart function of patients with heart failure] Miura T, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):31–6 (3 ref.) **(Jpn)**

[Cardiac function using ultrafast computed tomography] Aizawa N, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:623–6 (4 ref.) **(Jpn)**

[Evaluation of myocardial ischemia with echo planar magnetic resonance imaging (EPI): normal and ischemic heart] Inoue T, et al. **Nippon Rinsho** 1997 Jul;55(7):1822–7 (Eng. Abstr.) **(Jpn)**

[Advances in high speed MR imaging for the functional assessment of cardiovascular system] Matsuda T. **Nippon Rinsho** 1997 Jul;55(7):1789–93 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Mechanocardiogram] Sawayama T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:575–80 (3 ref.) **(Jpn)**

[Malnutrition and the heart (hypoproteinemia, kwashiorkor)] Komine T, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (15):36–8 (13 ref.) **(Jpn)**

[Cardiac anaphylaxis] Watanabe S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):560–3 (10 ref.) **(Jpn)**

[Diabetes mellitus and the heart] Yagi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):56–9 (27 ref.) **(Jpn)**

[The analysis of systemic hemodynamics and of myocardial functional status in patients in critical states] Ivanov GG. **Anesteziol Reanimatol** 1996 Sep-Oct;(5):10–3 (Eng. Abstr.) **(Rus)**

[The intermitochondrial contacts of cardiomyocytes during cardiac adaptation under pathological conditions] Paukov VS, et al. **Arkh Patol** 1996 Nov-Dec;58(6):43–50 (Eng. Abstr.) **(Rus)**

[The state of myocardium in rats of a new hypertensive strain] Shmerling MD, et al. **Biull Eksp Biol Med** 1996 Sep; 122(9):271–3 **(Rus)**

[Heart functions in monkeys during a 2-week antiorthostatic hypokinesia] Krotov VP, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct-Nov;82(10-11):34–45 (Eng. Abstr.) **(Rus)**

[Changes in myocardial hemodynamics and contractile function in patients under surgical treatment for prostatic adenoma] Dzhavad-zade MD, et al. **Khirurgiia (Mosk)** 1996;(6):75–7 (Eng. Abstr.) **(Rus)**

[The energy characteristics of cardiorespiratory system function in patients with chronic bronchitis under graded physical loads] Mizin VI. **Lik Sprava** 1996 Jan-Feb; (1-2):129–31 (Eng. Abstr.) **(Rus)**

[A method for recording the process of atrial repolarization] Tsintsadze GI, et al. **Lik Sprava** 1996 Jul-Sep;(7-9):110–2 **(Rus)**

[Bioelectric activity of the myocardium and central hemodynamics in patients with vibration disease] Liubchenko PN, et al. **Med Tr Prom Ekol** 1996;(12):11–4 (Eng. Abstr.) **(Rus)**

[Autonomic regulation of cardiac activity and the status of central hemodynamics in patients with idiopathic mitral valve prolapse] Shmyrev VI, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):25–8 (Eng. Abstr.) **(Rus)**

[Correlation between echocardiographic changes and parameters of pulmonary function in patients with arterial hypertension] Najić O. **Med Pregl** 1996;49(11-12):453–7 (Eng. Abstr.) **(Scr)**

[Atrial fibrillation, carotid stenosis and stroke (editorial)] Martín R. **Rev Neurol** 1996 Jan;24(125):26–7 **(Spa)**

[The heart pumping function and the systemic regulation of blood circulation in groups of heart surgery patients] Knyshov HV, et al. **Fiziol Zh** 1996;42(5-6):3–18 (Eng. Abstr.) **(Ukr)**

[The mechanisms of diastolic dysfunction and their assessment by a Doppler method] Zharinov OI, et al. **Fiziol Zh** 1997;43(3-4):130–3 (24 ref.) (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

Specification of the dose to organs at risk in external beam radiotherapy. Dale E, et al. **Acta Oncol** 1997;36(2):129–35

Comparison of cardiac and 60 Hz magnetically induced electric fields measured in anesthetized rats. Miller DL, et al. **Bioelectromagnetics** 1997;18(4):317–23

Radiation change in normal organs: an overview of body imaging. Libshitz HI, et al. **Eur Radiol** 1996;6(6):786–95 (82 ref.)

Myocardial damage in breast cancer patients treated with adjuvant radiotherapy: a prospective study. Gyenes G, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):899–905

Retreatment tolerance of the heart [editorial; comment] Trott KR. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):985–6 . Comment on: Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):811–9.

Reirradiation tolerance of the rat heart [see comments] Wondergem J, et al. **Int J Radiat Oncol Biol Phys** 1996 Nov 1;36(4):811–9. Comment in: Int J Radiat Oncol Biol Phys 1996 Nov 1;36(4):985–6.

Evaluation of irradiated heart volumes in stage I breast cancer patients treated with postoperative adjuvant radiotherapy. Gyenes G, et al. **J Clin Oncol** 1997 Apr; 15(4):1348–53

Photo-irradiation improved functional preservation of the isolated rat heart. Zhu Q, et al. **Lasers Surg Med** 1997; 20(3):332–9

Mediastinal irradiation in lung cancer three years after heart transplantation: a case report [letter] Martin T, et al. **Radiother Oncol** 1997 Jul;44(1):91–2

Changes in cardiac performance and sympathetic stimulation during and after fractionated radiotherapy in a rat model. Wondergem J, et al. **Radiother Oncol** 1996 Jan;38(1):33–40

[Radiation-induced heart disease (RIHD)] Takao N, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):614–7 (8 ref.) **(Jpn)**

[Effects of electromagnetic radiation of various modes on heart activity (in experiments)] Afrikanova LA, et al. **Radiats Biol Radioecol** 1996 Sep-Oct;36(5):691–9 (Eng. Abstr.) **(Rus)**

[The effect of exposure to magnetics and lasers on the clinical status and the electrophysiological indices of the heart in patients with cardiac arrhythmias] Budnar' LN, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Mar-Apr;(2):5–8 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Herniation of the transverse colon after esophagectomy: is retrocardiac air a normal postoperative finding? Gollub MJ, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):481–3

Variation of heart rate and electrocardiograph trigger interval during ultrafast computed tomography. Mao SS, et al. **Am J Card Imaging** 1996 Oct;10(4):239–43

C-reactive protein as a predictor of infarct expansion and cardiac rupture after a first Q-wave acute myocardial infarction. Anzai T, et al. **Circulation** 1997 Aug 5; 96(3):778–84

Tension pericardial collections: sign of 'flattened heart' in CT. Hernández-Luyando L, et al. **Eur J Radiol** 1996 Nov; 23(3):250–2

Reversible high rate atrial fibrillation dilated cardiomyopathy. Lazzari JO, et al. **Heart** 1997 May; 77(5):486

Reversibility of "tachycardia induced cardiomyopathy" following the cure of idiopathic left ventricular tachycardia using radiofrequency energy. Singh B, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1391–2

[A new helical CT approach with ECG gated reconstruction] Kimura F, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar;57(4):217–9 (Eng. Abstr.) **(Jpn)**

[Cardiac function using ultrafast computed tomography] Aizawa N, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:623–6

(4 ref.) **(Jpn)**

[Estimation of cardiac function by helical CT] Itani Y, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:627–9 (7 ref.) **(Jpn)**

[An evaluation of the heart by enhanced CT] Watanabe S, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:619–22 (3 ref.) **(Jpn)**

[Mesocardia] Sone K. **Ryoikibetsu Shokogun Shirizu** 1996; (13):171–4 (3 ref.) **(Jpn)**

RADIONUCLIDE IMAGING

Clinical nuclear cardiology: flow tracers and free fatty acid analogs to detect viable myocardium after infarction. Franken PR, et al. **Acta Cardiol** 1996;51(6):501–14 (20 ref.)

99mTc tetrofosmin uptake in lung cancer. A case report. Ishibashi M, et al. **Acta Radiol** 1996 Sep;37(5):763–6

Correlation of adenosine thallium 201 perfusion patterns with markers for inducible ischemia. Fenster MS, et al. **Am Heart J** 1997 Apr;133(4):406–12

Myocardial imaging with a new transpulmonary lipid–fluorocarbon echo contrast agent: experimental studies in pigs. Grauer SE, et al. **Am Heart J** 1996 Nov; 132(5):938–45

Assessment of regional sympathetic nerve activity in vasospastic angina: analysis of iodine 123–labeled metaiodobenzylguanidine scintigraphy. Sakata K, et al. **Am Heart J** 1997 Apr;133(4):484–9

Iodine–123 metaiodobenzylguanidine myocardial scintigraphy for prediction of response to beta–blocker therapy in patients with dilated cardiomyopathy. Suwa M, et al. **Am Heart J** 1997 Mar;133(3):353–8

Dynamic planar myocardial perfusion imaging in patients with one–vessel disease with intracoronary injection of technetium 99m teboroxime during papaverine–induced coronary hyperemia. Tartagni F, et al. **Am Heart J** 1996 Nov;132(5):1042–7

Commentary: Cardiac imaging in the cost–effective era—nuclear imaging. Iskandrian AE. **Am J Card Imaging** 1996 Jul;10(3):198–9

Cost–effectiveness of cardiac positron emission tomography in the treatment of ischemic cardiomyopathy. Schelbert HR. **Am J Card Imaging** 1996 Jul;10(3):191–7 (28 ref.)

Usefulness of serial radionuclide angiography in predicting cardiac death after coronary artery bypass grafting and comparison with clinical and cardiac catheterization data. Borges–Neto S, et al. **Am J Cardiol** 1997 Apr 1;79(7):851–5

Categorization of abnormal left ventricular function: comparison between radionuclide angiographic and echocardiographic technique in postinfarction patients. Breekland A, et al. **Am J Cardiol** 1997 Jan 1;79(1):108–11

Coronary vasodilatory capacity and flow reserve in normal myocardium supplied by bypass grafts late after surgery. Campisi R, et al. **Am J Cardiol** 1997 Jul 1;80(1):27–31

Usefulness of preoperative noninvasive radionuclide testing for detecting coronary artery disease in candidates for liver transplantation. Kryzhanovski VA, et al. **Am J Cardiol** 1997 Apr 1;79(7):986–8

Impact of acute propranolol administration on dobutamine–induced myocardial ischemia as evaluated by myocardial perfusion imaging and echocardiography. Shehata AR, et al. **Am J Cardiol** 1997 Aug 1;80(3):268–72

Regional glucose uptake within hypoperfused swine myocardium as measured by positron emission tomography. McFalls EO, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H343–9

Kinetic analysis of rubidium and thallium as deposited myocardial blood flow tracers in isolated rabbit heart. Marshall RC, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1480–90

Viability after myocardial infarction: can it be assessed within five minutes by low–dose dynamic iodine–123–iodophenylpentadecanoic acid imaging with a multicrystal gamma camera? Murray GL, et al. **Angiology** 1997 Apr;48(4):309–19

Dipyridamole–induced angina pectoris during sestamibi stress test in patients with significant coronary artery disease: clinical, angiographic, and nuclear determinants. Rosseel M, et al. **Angiology** 1997 Apr;48(4):301–7

Tc–99m tetrofosmin myocardial perfusion SPECT after dipyridamole combined with low–level exercise in the diagnosis of coronary artery disease. Fukuzawa S, et al. **Ann Nucl Med** 1996 May;10(2):231–5

Absent myocardial I–123 BMIPP uptake in a family. Hwang EH, et al. **Ann Nucl Med** 1996 Nov;10(4):445–8

Comparative study of 201Tl–scintigraphic image and myocardial pathologic findings in patients with dilated cardiomyopathy. Li LX, et al. **Ann Nucl Med** 1996 Aug; 10(3):307–14

123I–MIBG myocardial imaging in hypertensive patients: abnormality progresses with left ventricular hypertrophy. Mitani I, et al. **Ann Nucl Med** 1996 Aug;10(3):315–21

Functional imaging of gated Tc–99m tetrofosmin study as a simple method to quantify ventricular wall motion. Nakajima K, et al. **Ann Nucl Med** 1997 May;11(2):87–94

Comparison of cationic myocardial perfusion agents: characteristics of accumulation in cultured smooth muscle cells. Nakamura K, et al. **Ann Nucl Med** 1996 Nov; 10(4):375–81

Simple method to quantify myocardial glucose metabolism from MB ratio in myocardial FDG PET. Nishikawa J, et al. **Ann Nucl Med** 1996 Aug;10(3):323–8

Clinical application of three–dimensional myocardial imaging: evaluation of efficacy of medical treatment on myocardial perfusion. Yamazaki J, et al. **Ann Nucl Med** 1996 Nov;10(4):383–9

Myocardial perfusion scintigraphy in patients undergoing major non–vascular abdominal surgery. Mumtaz H, et al. **Ann R Coll Surg Engl** 1996 Sep;78(5):420–5

Radiolabeled ligands for imaging the muscarinic–cholinergic receptors of the heart and brain. Knapp FF Jr, et al. **Anticancer Res** 1997 May–Jun;17(3B):1559–72 (63 ref.)

Effects in the testes after SPECT myocardial perfusion with Tl–201 or Tc–99m hexaMIBI. Manetou A, et al. **Anticancer Res** 1997 May–Jun;17(3B):1841–4

Feasibility analysis of a case–based reasoning system for automated detection of coronary heart disease from myocardial scintigrams. Haddad M, et al. **Artif Intell Med** 1997 Jan;9(1):61–78

Synthesis of two optically active calcium channel antagonists labelled with carbon–11 for in vivo cardiac PET imaging. Dollé F, et al. **Bioorg Med Chem** 1997 Apr;5(4):749–64

Nuclear cardiology. McKillop JH, et al. **Br J Hosp Med** 1997 Mar 5–18;57(5):194–8 (22 ref.)

Effect of nicorandil on abnormal coronary flow reserve assessed by exercise 201Tl scintigraphy in patients with angina pectoris and nearly normal coronary arteriograms. Yamabe H, et al. **Cardiovasc Drugs Ther** 1995 Dec; 9(6):755–61

Effects of myocardial viability assessment with positron emission tomography on clinical management and patient outcomes. Tan TX, et al. **Chin Med J (Engl)** 1996 Sep; 109(9):687–94

Persistent lung uptake in the redistribution phase of Tl–201 chloride myocardial SPECTs—a sign of severe pulmonary edema: a case report. Shih WJ, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov;58(5):370–3

Comparison of 201Tl scintigraphy and low–dose dobutamine echocardiography for the noninvasive assessment of myocardial viability [editorial; comment] Beller GA. **Circulation** 1996 Dec 1;94(11):2681–4. Comment on: Circulation 1996 Dec 1;94(11):2712–9.

Noninvasive assessment of myocardial viability by positron emission tomography with 11C acetate in patients with old myocardial infarction. Usefulness of low–dose dobutamine infusion. Hata T, et al. **Circulation** 1996 Oct 15; 94(8):1834–41

Nitroglycerin–augmented 201T1 reinjection enhances detection of reversible myocardial hypoperfusion. A randomized, double–blind, parallel, placebo–controlled trial. He ZX, et al. **Circulation** 1997 Apr 1;95(7):1799–805

Abnormal cardiac adrenergic nerve function in patients with syndrome X detected by [123I]metaiodobenzylguanidine myocardial scintigraphy. Lanza GA, et al. **Circulation** 1997 Aug 5;96(3):821–6

99mTc–HL91. Effects of low flow and hypoxia on a new ischemia–avid myocardial imaging agent. Okada RD, et al. **Circulation** 1997 Apr 1;95(7):1892–9

Improved outcome after coronary bypass surgery in patients with ischemic cardiomyopathy and residual myocardial viability. Pagley PR, et al. **Circulation** 1997 Aug 5; 96(3):793–800

Assessment of myocardial viability in patients with chronic coronary artery disease. Rest–4–hour–24–hour 201Tl tomography versus dobutamine echocardiography [see comments] Perrone–Filardi P, et al. **Circulation** 1996 Dec 1;94(11):2712–9. Comment in: Circulation 1996 Dec 1;94(11):2674–80. Comment in: Circulation 1995 Dec 1;94(11):2681–4. Comment in: Circulation 1996 Dec 1;94(11):2685–8.

Assessment of myocardial viability by use of 11C–acetate and positron emission tomography. Threshold criteria of reversible dysfunction. Wolpers HG, et al. **Circulation** 1997 Mar 18;95(6):1417–24

Culprit lesion and jeopardized myocardium: correlation between coronary angiography and single–photon emission computed tomography. Candell–Riera J, et al. **Clin Cardiol** 1997 Apr;20(4):345–50

Comparison between dobutamine echocardiography and thallium–201 scintigraphy in detecting residual stenosis, ischemia, and necrosis in patients with prior myocardial infarction. Macieira–Coelho E, et al. **Clin Cardiol** 1997 Apr; 20(4):351–6

Preoperative cardiac risk assessment with adenosine stress dual–isotope myocardial single–photon emission computed tomography. Maunoury C, et al. **Clin Cardiol** 1996 Jun; 19(6):488–90

Unexpected uptake of Tc99m DTPA by myocard in renography [letter] Dugal B. **Clin Nephrol** 1997 Apr; 47(4):278–9

Abnormal Tl–201 myocardial scintigraphy associated with administration of sodium aurothiomalate. Allman KC, et al. **Clin Nucl Med** 1997 Jul;22(7):479–80

Gated resting Tl–201 SPECT in the evaluation of myocardial viability. Chin BB, et al. **Clin Nucl Med** 1996 Apr; 21(4):275–9

Reverse perfusion pattern of Tc–99m MIBI heralding the development of myocardial infarction. Fragasso G, et al. **Clin Nucl Med** 1996 Jul;21(7):519–22

Breast carcinoma fortuitously discovered on myocardial perfusion imaging. Gordon L, et al. **Clin Nucl Med** 1996 Apr;21(4):330

Determination of systolic thickening index with gated Tc–99m sestamibi SPECT. A new parameter of myocardial viability? Hambye AS, et al. **Clin Nucl Med** 1997 Mar; 22(3):172–5

SLE myocarditis. Detection by Ga–67 citrate scintigraphy. Jolles PR, et al. **Clin Nucl Med** 1996 Apr;21(4):284–6

Tc–99m sestamibi myocardial SPECT in syndrome X. Kao CH, et al. **Clin Nucl Med** 1996 Apr;21(4):280–3

Massive cardiac Ga–67 uptake in a child with pulmonary hypertension, heart failure, and bleeding. Karimeddini MK, et al. **Clin Nucl Med** 1997 Feb;22(2):128–9

Myocardial perfusion scintigraphy in a myocardial bridging of coronary artery. Kulan K, et al. **Clin Nucl Med** 1996 Nov;21(11):888–9

Acute cholecystitis detected on a Tc–99m sestamibi myocardial imaging. Lamont AE, et al. **Clin Nucl Med** 1996 Nov;21(11):879

Lung–heart ratio in stress thallium myocardial perfusion imaging in patients with a history of a previous pneumonectomy. Turoglu HT, et al. **Clin Nucl Med** 1996 Oct;21(10):783–5

Recent advances in myocardial perfusion scintigraphy. Gunning MG, et al. **Clin Radiol** 1996 Oct;51(10):677–83 (78 ref.)

Nitroglycerin–induced changes in myocardial sestamibi uptake to detect tissue viability: radionuclide comparison before and after revascularization. Greco C, et al. **Coron Artery Dis** 1996 Dec;7(12):877–84

Incremental value of myocardial perfusion scintigraphy in prognosis and outcomes of patients with coronary artery disease [see comments] Bateman TM, et al. **Curr Opin Cardiol** 1996 Nov;11(6):613–20 (48 ref.). Comment in: Curr Opin Cardiol 1996 Nov;11(6):611–2.

The role of noninvasive testing in evaluating patients for coronary artery disease. Tilkemeier PL, et al. **Curr Opin Cardiol** 1996 Jul;11(4):409–17 (57 ref.)

Demonstration of regional sympathetic denervation of the heart in diabetes. Comparison between patients with NIDDM and IDDM. Turpeinen AK, et al. **Diabetes Care** 1996 Oct;19(10):1083–90

Subclinical cardiac abnormality in mitochondrial diabetes mellitus, detected by 123I–BMIPP scintigraphy [letter] Momiyama Y, et al. **Diabetologia** 1996 Nov;39(11):1412–3

Abnormal myocardial kinetics of 123I–heptadecanoic acid in subjects with impaired glucose tolerance. Turpeinen AK, et al. **Diabetologia** 1997 May;40(5):541–9

Improvement of myocardial perfusion after low–density lipoprotein apheresis treatment [letter] Jovin IS, et al. **Eur Heart J** 1997 Mar;18(3):531–2

Twenty years of myocardial perfusion imaging 1976–1996: anything new for the clinical cardiologist? van der Wall EE, et al. **Eur Heart J** 1996 Jul;17(7):987–90 (25 ref.)

Optimal metabolic conditions during fluorine–18 fluorodeoxyglucose imaging; a comparative study using different protocols. Bax JJ, et al. **Eur J Nucl Med** 1997 Jan;24(1):35–41

Comparison between 360 degrees and 180 degrees data sampling in thallium–201 rest–redistribution single–photon emission tomography to predict functional recovery after revascularization. Bax JJ, et al. **Eur J Nucl Med** 1997 May; 24(5):516–22

Quantitative evaluation of myocardial single–photon emission tomographic imaging: application to the measurement of perfusion defect size and severity. Benoit T, et al. **Eur J Nucl Med** 1996 Dec;23(12):1603–12

Cardiac and skeletal muscle scintigraphy in dermato– and polymyositis: clinical implications. Buchpiguel CA, et al. **Eur J Nucl Med** 1996 Feb;23(2):199–203

Quantitative evaluation of manganese–52m as a myocardial perfusion tracer in pigs using positron emission tomography. Buck A, et al. **Eur J Nucl Med** 1996 Dec; 23(12):1619–27

Phantom evaluation of simultaneous thallium–201/technetium–99m aquisition in single–photon emission tomography. Cao Z, et al. **Eur J Nucl Med** 1996 Nov;23(11):1514–20

Altered myocardial perfusion during dobutamine stress testing in silent versus symptomatic myocardial ischaemia assessed by quantitative MIBI SPET imaging. Elhendy A, et al. **Eur J Nucl Med** 1996 Oct;23(10):1354–60

Left ventricular ejection fraction from gated SPET myocardial perfusion studies: a method based on the radial distribution of count rate density across the myocardial wall. Everaert H, et al. **Eur J Nucl Med** 1996 Dec; 23(12):1628–33

Nitrate administration to enhance the detection of myocardial viability by technetium–99m tetrofosmin single–photon emission tomography. Flotats A, et al. **Eur J Nucl Med** 1997 Jul;24(7):767–73

Is the addition of ECG gating to technetium–99m sestamibi SPET of value in the assessment of myocardial viability? An evaluation based on two–dimensional echocardiography following revascularization. González P, et al. **Eur J Nucl Med** 1996 Oct;23(10):1315–22

Detection of radiation–induced myocardial damage by technetium–99m sestamibi scintigraphy. Gyenes G, et al. **Eur J Nucl Med** 1997 Mar;24(3):286–92

Cardiac single–photon emission tomography: is attenuation correction enough? [editorial] Hutton BF. **Eur J Nucl Med** 1997 Jul;24(7):713–5

Transmission–based scatter correction of 180 degrees myocardial single–photon emission tomographic studies. Hutton BF, et al. **Eur J Nucl Med** 1996 Oct;23(10):1300–8

Impaired coronary circulation in acute myocardial infarction: a dipyridamole–thallium–201 study. Kim S, et al.

Eur J Nucl Med 1997 Feb;24(2):210–4

Therapeutic effect of co–enzyme Q10 on idiopathic dilated cardiomyopathy: assessment by iodine–123 labelled 15–(p–iodophenyl)–3(R,S)–methylpentadecanoic acid myocardial single–photon emission tomography. Kim Y, et al. **Eur J Nucl Med** 1997 Jun;24(6):629–34

Feasibility of simultaneous dual–isotope myocardial perfusion acquisition using a lower dose of sestamibi. Kwok CG, et al. **Eur J Nucl Med** 1997 Mar;24(3):281–5

Long–term cigarette smoking is associated with increased myocardial perfusion heterogeneity assessed by positron emission tomography. Meeder JG, et al. **Eur J Nucl Med** 1996 Nov;23(11):1442–7

Technetium–99m tetrofosmin rest/stress myocardial SPET with a same–day 2–hour protocol: comparison with coronary angiography. A Spanish–Portuguese multicentre clinical trial. Montz R, et al. **Eur J Nucl Med** 1996 Jun; 23(6):639–47

Effect of attenuation correction on myocardial thallium–201 distribution in patients with a low likelihood of coronary artery disease. Prvulovich EM, et al. **Eur J Nucl Med** 1997 Mar;24(3);266–75

Quantitative exercise technetium–99m tetrofosmin myocardial tomography for the identification and localization of coronary artery disease. Sullo P, et al. **Eur J Nucl Med** 1996 Jun;23(6):648–55

The occurrence of false–positive technetium–99m sestamibi bull's eye defects in different reference databases. A study of an age– and gender–stratified healthy population. Toft J, et al. **Eur J Nucl Med** 1997 Feb;24(2):179–83

Myocardial sestamibi single–photon emission tomography: variations in reference values with gender, age and rest versus stress? Toft J, et al. **Eur J Nucl Med** 1997 Apr; 24(4):409–14

Clearance of thallium–201 from the peripheral blood: comparison of immediate and standard thallium–201 reinjection. van Eck–Smit BL, et al. **Eur J Nucl Med** 1996 Feb;23(2):188–94

Metabolic myocardial viability assessment with iodine 123–16–iodo–3–methylhexadecanoic acid in recent myocardial infarction: comparison with thallium–201 and fluorine–18 fluorodeoxyglucose. Vanzetto G, et al. **Eur J Nucl Med** 1997 Feb;24(2):170–8

Cardiac phase–synchronized myocardial thallium–201 single–photon emission tomography using list mode data acquisition and iterative tomographic reconstruction. Vemmer T, et al. **Eur J Nucl Med** 1997 Mar;24(3):276–80

Technetium–99m sestamibi and tetrofosmin myocardial single–photon emission tomography: can we use the same reference data base? Widding A, et al. **Eur J Nucl Med** 1997 Jan;24(1):42–5

High incidence of scintigraphic myocardial uptake defects at rest and during exercise in male elite runners. Bouvier F, et al. **Heart** 1997 Mar;77(3):252–5

Visualisation of exercise–induced ischaemia of the right ventricle by thallium–201 single photon emission computed tomography. Chiba J, et al. **Heart** 1997 Jan;77(1):40–5

Anatomical data fusion for quantitative reconstruction in myocardial tomoscintigraphy using a spline model of the thorax organs. Coutand F, et al. **IEEE Trans Biomed Eng** 1997 Jul;44(7):575–84

Effects of time delay in cardiac blood flow measurements by bolus H2(15)O. Pajevic S, et al. **IEEE Trans Med Imaging** 1997 Jun;16(3):294–300

Cardiotoxicity of combined administration of adriamycin and recombinant human granulocyte colony–stimulating factor (rhG–CSF) in rats–with special reference to 125I–MIBG cardioautoradiography and histopathological findings. Niitsu N, et al. **In Vivo** 1995 Sep–Oct;9(5):455–62

Metabolic imaging using F18–fluorodeoxyglucose to assess myocardial viability. Bax JJ, et al. **Int J Card Imaging** 1997 Apr;13(2):145–55; discussion 157–60 (87 ref.)

Thallium–199: a new radiopharmaceutical for myocardial perfusion imaging. Chernov VI, et al. **Int J Card Imaging** 1996 Jun;12(2):119–26

Is 'diaphragmatic' attenuation a misnomer?. Evaluation of the anatomic cause of 'diaphragmatic' attenuation in SPECT thallium scanning. Elson SH, et al. **Int J Card Imaging** 1997 Apr;13(2):161–4

Tc–99m tetrofosmin myocardial distribution 4 hours post injection. Pillay M, et al. **Int J Card Imaging** 1996 Jun; 12(2):127–35

Feasibility of simultaneous Tc99m sestamibi and 2D–echo cardiac imaging during dobutamine pharmacologic stress. Preliminary results in a female population. Slavich GA, et al. **Int J Card Imaging** 1996 Jun;12(2):113–8

Neuronal dysfunction in heart failure assessed by cardiac 123–iodine metaiodobenzylguanidine scintigraphy. Somsen GA, et al. **Int J Card Imaging** 1996 Dec;12(4):305–10

Myocardial indium–111 antimyosin uptake after uncomplicated coronary artery bypass surgery. Astorri E, et al. **Int J Cardiol** 1996 Aug;55(3):239–44

Prominent atrial wave and diastasis deflection in the radionuclide diastolic volume curve during exercise--sensitive marker for coronary artery disease. Klainman E, et al. **Int J Cardiol** 1996 Aug;55(3):271–6

Thallium–201 myocardial perfusion imaging in patients before and after successful percutaneous transluminal coronary angioplasty. Kostkiewicz M, et al. **Int J Cardiol** 1996 Mar;53(3):299–304

Spectrum of alcohol–induced myocardial damage detected by indium–111–labeled monoclonal antimyosin antibodies. Ballester M, et al. **J Am Coll Cardiol** 1997 Jan;29(1):160–7

Can nitrogen–13 ammonia kinetic modeling define myocardial viability independent of fluorine–18 fluorodeoxyglucose? Beanlands RS, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):537–43

Lower diagnostic accuracy of thallium–201 SPECT myocardial perfusion imaging in women: an effect of smaller chamber size. Hansen CL, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1214–9

Diagnosis of coronary artery disease by exercise thallium–201 tomography in patients with a right ventricular pacemaker. Lakkis NM, et al. **J Am Coll Cardiol** 1997 May;29(6):1221–5

Assessment of myocardial viability in chronic coronary artery disease using technetium–99m sestamibi SPECT. Correlation with histologic and positron emission tomographic studies and functional follow–up. Maes AF, et al. **J Am Coll Cardiol** 1997 Jan;29(1):62–8

Ischemic burden in silent and painful myocardial ischemia: a quantitative exercise sestamibi tomographic study. Marcassa C, et al. **J Am Coll Cardiol** 1997 Apr;29(5):948–54

Quantitative rest technetium–99m tetrofosmin imaging in predicting functional recovery after revascularization: comparison with rest–redistribution thallium–201. Matsunari I, et al. **J Am Coll Cardiol** 1997 May; 29(6):1226–33

Identification of hibernating myocardium: comparative accuracy of myocardial contrast echocardiography, rest–redistribution thallium–201 tomography and dobutamine echocardiography. Nagueh SF, et al. **J Am Coll Cardiol** 1997 Apr;29(5):985–93

Detection of myocardial perfusion in multiple echocardiographic windows with one intravenous injection of microbubbles using transient response second harmonic imaging. Porter TR, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):791–9

Enhanced myocardial 18F–2–fluoro–2–deoxyglucose uptake after orthotopic heart transplantation assessed by positron emission tomography. Rechavia E, et al. **J Am Coll Cardiol** 1997 Aug;30(2):533–8

Iodine–123 metaiodobenzylguanidine scintigraphic assessment of myocardial sympathetic innervation in patients with familial amyloid polyneuropathy. Tanaka M, et al. **J Am Coll Cardiol** 1997 Jan;29(1):168–74

Recovery of regional left ventricular dysfunction after coronary revascularization. Impact of myocardial viability assessed by nuclear imaging and vessel patency at follow–up angiography. vom Dahl J, et al. **J Am Coll Cardiol** 1996 Oct;28(4):948–58

Residual myocardial damage following electrical injuries. Matsumura H, et al. **J Burn Care Rehabil** 1997 Jul–Aug; 18(4):299–305

Myocardial sympathetic dysinnervation in doxorubicin cardiomyopathy. Takano H, et al. **J Cardiol** 1996 Feb; 27(2):49–55

History of Kawasaki disease in a one–year–old boy shown by radionuclide studies. Tamaki N, et al. **J Cardiol** 1996 Oct;28(4):235–6

99mTc–sestamibi and 201–Thallium at rest: dual scintigraphic mapping of myocardial injury in infarcted patients. Cassone R, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):609–13

Correlation between quantitative severity of stress thallium–201 myocardial perfusion defect and severity of coronary stenosis. Chao CL, et al. **J Formos Med Assoc** 1996 Feb;95(2):105–9

Evaluation of left ventricular ejection fraction from 99m Tc sestamibi gated SPECT. Tocharoenchai C, et al. **J Med Assoc Thai** 1996 Sep;79(9):596–600

Cardiac involvement in facio–scapulo–humeral muscular dystrophy: a family study using Thallium–201 single–photon–emission–computed tomography. Faustmann PM, et al. **J Neurol Sci** 1996 Dec;144(1–2):59–63

Proceedings of the 3rd Wintergreen Nuclear Cardiology Invitational Conference. July 14–16, 1996. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 1):83–98

Nuclear cardiology in the literature. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 1):101–2

Nuclear cardiology in the literature. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):180–1

Correlation of symptoms, myocardial perfusion imaging, and anatomic narrowing of the left anterior descending artery. Abbas SA, et al. **J Nucl Cardiol** 1996 Jul–Aug;3(4):363–4

Myocardial single–photon emission computed tomographic quality assurance. Baron JM, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):157–66 (33 ref.)

Clinical relevance of a normal myocardial perfusion scintigraphic study. American Society of Nuclear Cardiology. Bateman TM. **J Nucl Cardiol** 1997 Mar–Apr; 4(2 Pt 1):172–3

Statement on mobile and remote–site provision of nuclear cardiology imaging services. American Society of Nuclear Cardiology. Bateman TM, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):174–7

Nuclear cardiology in private practice. Bateman TM. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S184–8

Improved detection of viable myocardium with fluorodeoxyglucose–labeled single–photon emission computed tomography in a patient with hibernating myocardium: comparison with rest–redistribution thallium 201–labeled single–photon emission computed tomography. Bax JJ, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):178–9

Selecting patients with ischemic cardiomyopathy for medical treatment, revascularization, or heart transplantation. Beller GA. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S152–7 (27 ref.)

Acute radionuclide perfusion imaging for evaluation of chest pain in the emergency department: need for a large clinical trial [editorial] Beller GA. **J Nucl Cardiol** 1996 Nov–Dec; 3(6 Pt 1):546–9

Evaluation of ventricular ejection fraction, wall motion, wall thickening, and other parameters with gated myocardial perfusion single–photon emission computed tomography. Berman DS, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S169–71

Para–[18F]fluorobenzylguanidine kinetics in a canine coronary artery occlusion model. Berry CR, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):119–29

Diagnosis and risk stratification in coronary artery disease: nuclear cardiology versus stress echocardiography. Bonow RO. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S172–8 (72 ref.)

Glucose uptake and lumped constant variability in normal human hearts determined with [18F]fluorodeoxyglucose. Bøtker HE, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):125–32

Prognostic value of myocardial perfusion imaging: state of the art and new developments. Brown KA. **J Nucl Cardiol** 1996 Nov–Dec;3(6 Pt 1):516–37 (116 ref.)

Demonstration of non–Hodgkin's lymphoma by dual radionuclide myocardial perfusion imaging. Cohen MC, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):186–7

Successful treatment of vasospastic angina and symptomatic polymorphic ventricular tachycardia with calcium antagonists and nitrates based on a diagnosis made with exercise 201Tl imaging. Conte FJ, et al. **J Nucl Cardiol** 1996 Nov–Dec;3(6 Pt 1):550–1

Clinical validation of three–dimensional color–modulated displays of myocardial perfusion [see comments] Cooke CD, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):108–16 . Comment in: J Nucl Cardiol 1997 Mar–Apr;4(2 Pt 1):169–71.

Estimation of myocardial blood flow for longitudinal studies with 13N–labeled ammonia and positron emission tomography. DeGrado TR, et al. **J Nucl Cardiol** 1996 Nov–Dec;3(6 Pt 1):494–507

Effect of the number of projections collected on quantitative perfusion and left ventricular ejection fraction measurements from gated myocardial perfusion single–photon emission computed tomographic images. Germano G, et al. **J Nucl Cardiol** 1996 Sep–Oct; 3(5):395–402

Plato's cave: multidimensionality of nuclear cardiology images [editorial; comment] Germano G, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):169–71. Comment on: J Nucl Cardiol 1997 Mar–Apr;4(2 Pt 1):108–16.

The incidence of scintigraphically viable and nonviable tissue by rubidium–82 and fluorine–18–fluorodeoxyglucose positron emission tomographic imaging in patients with prior infarction and left ventricular dysfunction. Go RT, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):96–104

Enhanced accuracy of defect detection by myocardial single–photon emission computed tomography with attenuation correction with gadolinium 153 line sources: evaluation with a cardiac phantom. He ZX, et al. **J Nucl Cardiol** 1997 May–Jun;4(3):202–10

Diagnostic utility of tomographic myocardial perfusion imaging with technetium 99m furifosmin (Q12) compared with thallium 201: results of a phase III multicenter trial [see comments] Hendel RC, et al. **J Nucl Cardiol** 1996 Jul–Aug;3(4):291–300. Comment in: J Nucl Cardiol 1996 Jul–Aug;3(4):356–7.

Ninety–day follow–up of patients in the emergency department with chest pain who undergo initial single–photon emission computed tomographic perfusion scintigraphy with technetium 99m–labeled sestamibi. Hilton TC, et al. **J Nucl Cardiol** 1996 Jul–Aug;3(4):308–11

Nuclear cardiology: new developments and future directions. Iskandrian AE, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S189–92

Furifosmin: the road to the final four [editorial; comment] Iskandrian AS. **J Nucl Cardiol** 1996 Jul–Aug;3(4):356–7. Comment on: J Nucl Cardiol 1996 Jul–Aug;3(4):291–300.

Planar imaging of 99mTc–labeled (bis(N–ethoxy, N–ethyl dithiocarbamato) nitrido technetium[V]) can detect resting ischemia. Johnson G 3rd, et al. **J Nucl Cardiol** 1997 May–Jun;4(3):217–25

Quantification of technetium 99m–labeled sestamibi single–photon emission computed tomography based on mean counts improves accuracy for assessment of relative regional myocardial blood flow: experimental validation in a canine model. Liu YH, et al. **J Nucl Cardiol** 1996 Jul–Aug;3(4):312–20

Cost–effectiveness of nuclear cardiology. Maddahi J, et al. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S139–40

Fast technetium 99m–labeled sestamibi gated single–photon emission computed tomography for evaluation of myocardial function. Mazzanti M, et al. **J Nucl Cardiol** 1996 Mar–Apr;3(2):143–9

Abnormal myocardial uptake and clearance of 123I–labeled metaiodobenzylguanidine in patients with chronic renal failure and autonomic dysfunction. Miyanaga H, et al. **J Nucl Cardiol** 1996 Nov–Dec;3(6 Pt 1):508–15

Automation of gated tomographic left ventricular ejection fraction. Nichols K, et al. **J Nucl Cardiol** 1996 Nov–Dec; 3(6 Pt 1):475–82

Evaluation of a multicrystal gamma camera and rotating chair for tomographic studies of the heart. O'Connor MK, et al. **J Nucl Cardiol** 1996 Jul-Aug;3(4):327-33

A challenge to the nuclear cardiology laboratory: imaging goals in patients after infarction [editorial] Rocco TP, et al. **J Nucl Cardiol** 1996 Jul-Aug;3(4):358-62

Fluorine 18-labeled fluorodeoxyglucose myocardial single-photon emission computed tomography: an alternative for determining myocardial viability. Sandler MP, et al. **J Nucl Cardiol** 1996 Jul-Aug;3(4):342-9 (48 ref.)

Cardiac stress-rest single-photon emission computed tomography with technetium 99m-labeled tetrofosmin: influence of washout kinetics on regional myocardial uptake values of the rest study with a 1-day protocol. Schulz G, et al. **J Nucl Cardiol** 1997 Jul-Aug;4(4):298-301

201Tl and 99mTc-labeled sestamibi for assessment of myocardial viability [letter] Sciagrà R, et al. **J Nucl Cardiol** 1996 Sep-Oct;3(5):453-4

A primer of biostatistic and economic methods for diagnostic and prognostic modeling in nuclear cardiology: Part II [see comments] Shaw LJ, et al. **J Nucl Cardiol** 1997 Jan-Feb; 4(1 Pt 1):52-60 (58 ref.). Comment in: J Nucl Cardiol 1997 Jan-Feb;4(1 Pt 1):74-8.

A primer of biostatistic and economic methods for diagnostic and prognostic modeling in nuclear cardiology: Part I. Shaw LJ, et al. **J Nucl Cardiol** 1996 Nov-Dec;3(6 Pt 1):538-45 (25 ref.)

Quantitative comparison of single-isotope and dual-isotope stress-rest single-photon emission computed tomographic imaging for reversibility of defects. Siebelink HM, et al. **J Nucl Cardiol** 1996 Nov-Dec;3(6 Pt 1):483-93

Experimental verification of technetium 99m-labeled teboroxime kinetic parameters in the myocardium with dynamic single-photon emission computed tomography: reproducibility, correlation to flow, and susceptibility to extravascular contamination. Smith AM, et al. **J Nucl Cardiol** 1996 Mar-Apr;3(2):130-42

Combined analysis of resting regional wall thickening and stress perfusion with electrocardiographic-gated technetium 99m-labeled sestamibi single-photon emission computed tomography: prediction of stress defect reversibility. Snapper HJ, et al. **J Nucl Cardiol** 1997 Jan-Feb;4(1 Pt 1):3-10

Prognostic value of persistent thallium-201 defects that become reversible after reinjection in patients with chronic myocardial infarction. Tisselli A, et al. **J Nucl Cardiol** 1997 May-Jun;4(3):195-201

Prognostic utility of increased pulmonary thallium uptake in patients without ischemia. Zafrir N, et al. **J Nucl Cardiol** 1996 Jul-Aug;3(4):301-7

Diversification of the portfolio [editorial] Zaret BL. **J Nucl Cardiol** 1996 Nov-Dec;3(6 Pt 1):455

Dipyridamole scintigraphy and intravascular ultrasound after successful coronary intervention. Bachmann R, et al. **J Nucl Med** 1997 Apr;38(4):553-8

Comparison of myocardial uptake of fluorine-18-fluorodeoxyglucose imaged with PET and SPECT in dyssynergic myocardium. Bax JJ, et al. **J Nucl Med** 1996 Oct;37(10):1631-6

Uptake and retention kinetics of para-fluorine-18-fluorobenzylguanidine in isolated rat heart. Berry CR, et al. **J Nucl Med** 1996 Dec;37(12):2011-6

Myocardial perfusion scintigraphy: effect on diagnostic and clinical management algorithms. Better N, et al. **J Nucl Med** 1996 Oct;37(10):1618-21

Reverse redistribution- "Part II": occurrence after thallium reinjection [editorial; comment] Borer JS. **J Nucl Med** 1996 May;37(5):742-3. Comment on: J Nucl Med 1996 May;37(5):735-51.

Which is better for inferior wall evaluation: a full or empty stomach? [letter; comment] Boz A, et al. **J Nucl Med** 1996 Nov;37(11):1916-7. Comment on: J Nucl Med 1994 Oct;35(10):1581-5.

Septal metabolic mismatch in LBBB [letter; comment] Burns RJ. **J Nucl Med** 1996 Nov;37(11):1918-9. Comment on: J Nucl Med 1995 Nov;36(11):2056-9.

A "hybrid" method for measuring myocardial wall thickening from gated PET/SPECT images. Buvat I, et al. **J Nucl Med** 1997 Feb;38(2):324-9

Myocardial viability studies using fluorine-18-FDG SPECT: a comparison with fluorine-18-FDG PET. Chen EQ, et al. **J Nucl Med** 1997 Apr;38(4):582-6

Glucose-loading thallium-201 myocardial SPECT. Chiba H, et al. **J Nucl Med** 1997 Apr;38(4):573-7

Hemodynamic indices of myocardial dysfunction correlate with dipyridamole thallium-201 SPECT. Chin BB, et al. **J Nucl Med** 1996 May;37(5):723-9

Consequences of using a simplified kinetic model for dynamic PET data. Coxson PG, et al. **J Nucl Med** 1997 Apr; 38(4):660-7

Adenosine coronary vasodilation in coronary artery disease: technetium-99m tetrofosmin myocardial tomography versus echocardiography. Cuocolo A, et al. **J Nucl Med** 1997 Jul;38(7):1089-94

Comparison of SPECT and ectomography for evaluating myocardial perfusion with technetium-99m-sestamibi. Dale SM, et al. **J Nucl Med** 1997 May;38(5):754-9

Attenuation artifacts in SPECT: effect of wrap-around lung in 180 degrees cardiac studies. Di Bella EV, et al. **J Nucl Med** 1996 Nov;37(11):1891-6

Prediction of functional outcome after myocardial infarction using BMIPP and sestamibi scintigraphy. Franken PR, et al. **J Nucl Med** 1996 May;37(5):718-22

Metabolism and kinetics of iodine-123-BMIPP in canine myocardium. Fujibayashi Y, et al. **J Nucl Med** 1996 May; 37(5):757-61

Quantification of systolic count increase in technetium-99m-MIBI gated myocardial SPECT. Fukuchi K, et al. **J Nucl Med** 1997 Jul;38(7):1067-73

Cerebral hypoperfusion in orthostatic hypotension with globally denervated myocardium. Fukuoka S, et al. **J Nucl Med** 1996 Nov;37(11):1824-6

Regional abnormality of iodine-123-MIBG in diabetic hearts. Hattori N, et al. **J Nucl Med** 1996 Dec;37(12):1985-90

Metabolic fate of iodine-123-BMIPP in canine myocardium after administration of etomoxir. Hosokawa R, et al. **J Nucl Med** 1996 Nov;37(11):1836-40

Simultaneous evaluation of fatty acid metabolism and myocardial flow in an explanted heart. Jonas M, et al. **J Nucl Med** 1996 Dec;37(12):1990-4

Re-evaluation of myocardial FDG uptake in hyperglycemia. Kubota K, et al. **J Nucl Med** 1996 Oct;37(10):1713-7

Metabolism substrate with negative myocardial uptake of iodine-123-BMIPP. Kudoh T, et al. **J Nucl Med** 1997 Apr; 38(4):548-53

Influence of blood substrate levels on myocardial kinetics of iodine-123-BMIPP. Kurata C, et al. **J Nucl Med** 1997 Jul;38(7):1079-84

Comparison of motion correction algorithms for cardiac SPECT. Leslie WD, et al. **J Nucl Med** 1997 May; 38(5):785-90

Effects of ouabain on technetium-99m-Q12 and thallium-201 extraction and retention by isolated rat heart. McGoron AJ, et al. **J Nucl Med** 1996 May;37(5):752-6

Carrier-mediated transport of fatty acids causes mismatch between measurements of perfusion and fatty acid metabolism in the myocardium [letter; comment] Machulla HJ. **J Nucl Med** 1996 Mar;37(3):547. Comment on: J Nucl Med 1995 Jun;36(6):1051-4.

Left ventricular function and perfusion in Becker's muscular dystrophy. Mansi L, et al. **J Nucl Med** 1997 Apr; 38(4):563-7

Thallium-201 reverse redistribution at reinjection imaging correlated with coronary lesion, wall motion abnormality and tissue viability [see comments] Marzullo P, et al. **J Nucl Med** 1996 May;37(5):735-41. Comment in: J Nucl Med 1996 May;37(5):742-3.

Significance of late redistribution thallium-201 imaging after rest injection for detection of viable myocardium. Matsunari I, et al. **J Nucl Med** 1997 Jul;38(7):1073-8

Early and delayed technetium-99m-tetrofosmin myocardial SPECT compared in normal volunteers. Matsunari I, et al. **J Nucl Med** 1996 Oct;37(10):1622-6

Evaluation of cardiac sympathetic innervation with iodine-123-metaiodobenzylguanidine imaging in silent myocardial ischemia. Matsuo S, et al. **J Nucl Med** 1996 May;37(5):712-7

Quantification of left ventricular function with thallium-201 and technetium-99m-sestamibi myocardial gated SPECT. Maunoury C, et al. **J Nucl Med** 1997 Jun;38(6):958-61

Myocardial iodine-123-metaiodobenzylguanidine images and autonomic nerve activity in normal subjects. Morozumi T, et al. **J Nucl Med** 1997 Jan;38(1):49-52

Abnormal iodine-123-MIBG images in healthy volunteers. Morozumi T, et al. **J Nucl Med** 1996 Oct;37(10):1686-8

Ambulatory monitoring of left ventricular function: walk and bicycle exercise in congestive heart failure. Nappi A, et al. **J Nucl Med** 1997 Jun;38(6):948-53

Quantitative comparison of planar and SPECT normal data files of thallium-201, technetium-99m-sestamibi, technetium-99m-tetrofosmin and technetium-99m-furifosmin. Naruse H, et al. **J Nucl Med** 1996 Nov;37(11):1783-8

Myocardial kinetics of carbon-11-epinephrine in the isolated working rat heart. Nguyen NT, et al. **J Nucl Med** 1997 May;38(5):780-5

Three-dimensional correction for spillover and recovery of myocardial PET images. Nuyts H, et al. **J Nucl Med** 1996 May;37(5):767-74

Data or information? That is the question. Oosterhuis WP, et al. **J Nucl Med** 1996 Mar;37(3):533

Assessment of cardiac sympathetic function with iodine-123-MIBG imaging in obstructive sleep apnea syndrome. Otsuka N, et al. **J Nucl Med** 1997 Apr; 38(4):567-72

Noise reduction in PET attenuation correction by maximum likelihood histogram sharpening of attenuation images. Price JC, et al. **J Nucl Med** 1996 May;37(5):786-94

Progressive heterogeneity of myocardial perfusion in heart transplant recipients detected by thallium-201 myocardial SPECT. Puskás C, et al. **J Nucl Med** 1997 May;38(5):760-5

PET perfusion and vasodilator function after angioplasty for acute myocardial infarction. Stewart RE, et al. **J Nucl Med** 1997 May;38(5):770-7

Septal perfusion and wall thickening in patients with left bundle branch block assessed by technetium-99m-sestamibi gated tomography. Sugihara H, et al. **J Nucl Med** 1997 Apr;38(4):545-7

Generator-produced copper-62-PTSM as a myocardial PET perfusion tracer compared with nitrogen-13-ammonia. Tadamura E, et al. **J Nucl Med** 1996 May;37(5):729-35

Iodine-123-BMIPP myocardial washout and cardiac work during exercise in normal and ischemic hearts. Takeda K, et al. **J Nucl Med** 1997 Apr;38(4):559-63

A kinetic model for cardiac PET with [1-carbon-11]-acetate. van den Hoff J, et al. **J Nucl Med** 1996 Mar;37(3):521-9

Effect of myocardial viability assessed by technetium-99m-sestamibi SPECT and fluorine-18-FDG PET on clinical outcome in coronary artery disease. vom Dahl J, et al. **J Nucl Med** 1997 May;38(5):742-8

Comparison of adenosine triphosphate and dipyridamole in diagnosis by thallium-201 myocardial scintigraphy. Watanabe K, et al. **J Nucl Med** 1997 Apr;38(4):577-81

Derivation of input function from FDG-PET studies in small hearts. Wu HM, et al. **J Nucl Med** 1996 Oct;37(10):1717-22

Automatic preparation of radiopharmacokinetic data for in vivo estimation of receptor biochemistry. Xu JC, et al. **J Nucl Med** 1996 Nov;37(11):1896-902

Is coronary angiography necessary for vascular surgery patients who have positive results of dipyridamole thallium scans? Massie MT, et al. **J Vasc Surg** 1997 Jun;25(6):975-82; discussion 982-3

A case of Crush syndrome with giant negative T waves and reversible left ventricular dysfunction. Adachi K, et al. **Jpn Circ J** 1996 Oct;60(10):809-14

Evaluation of myocardial viability using sequential dual-isotope single photon emission tomography imaging with rest TI-201/stress Tc-99m tetrofosmin in the prediction of wall motion recovery after revascularization. Fukuzawa S, et al. **Jpn Circ J** 1997 Jun;61(6):481-7

Scintigraphic detection of regional disruption of the adrenergic nervous system in sarcoid heart disease. Misumi I, et al. **Jpn Circ J** 1996 Oct;60(10):774-8

Lack of myocardial iodine-123 15-(p-iodiphenyl)-3-R,S-methylpentadecanoic acid (BMIPP) uptake and CD36 abnormality--CD36 deficiency and hypertrophic cardiomyopathy [letter] Tanaka T, et al. **Jpn Circ J** 1997 Aug;61(8):724-5

Comparison of exercise stress testing with dobutamine stress echocardiography and exercise technetium-99m isonitrile single photon emission computerized tomography for diagnosis of coronary artery disease. Oğuzhan A, et al. **Jpn Heart J** 1997 May;38(3):333-44

Significance of downsloping ST-segment depression induced by low-level exercise in severe coronary artery disease. Assessment with myocardial ischemia and collateral perfusion. Watanabe T, et al. **Jpn Heart J** 1997 Mar; 38(2):207-18

Sympathetic cardioneuropathy in dysautonomias [see comments] Goldstein DS, et al. **N Engl J Med** 1997 Mar 6;336(10):696-702. Comment in: N Engl J Med 1997 Mar 6;336(10):721-4. Comment in: N Engl J Med 1997 Jul 24;337(4):278-80.

Direct radiofluorination of dopamine: 18F-labeled 6-fluorodopamine for imaging cardiac sympathetic innervation in humans using positron emission tomography. Chirakal R, et al. **Nucl Med Biol** 1996 Jan;23(1):41-5

Synthesis, characterization and biodistribution of new 99mTc oxo and nitrido complexes with bi- and tetradendate unsaturated NS and N2S2 Schiff bases derived from 2-aminocyclopentene-1-dithiocarboxylic acid as potential heart imaging agents. Coulais Y, et al. **Nucl Med Biol** 1994 Feb;21(2):263-8

In vitro evaluation of N-(fluoro)isopropyl norephedrine as potential cardiac imaging agents for PET. de Groot TJ, et al. **Nucl Med Biol** 1996 Feb;23(2):155-7

Synthesis and preliminary evaluation of [11C]-(-)-phenylephrine as a functional heart neuronal PET agent. Del Rosario RB, et al. **Nucl Med Biol** 1996 Jul;23(5):611-6

Delineation of the border zone of ischemic rabbit myocardium by a technetium-labeled nitroimidazole. Di Rocco RJ, et al. **Nucl Med Biol** 1997 Apr;24(3):201-7

PET examination of the monkey heart with high specific radioactivity [11C]norepinephrine and [11C]metaraminol. Farde L, et al. **Nucl Med Biol** 1995 Nov;22(8):1053-6

Synthesis and evaluation of [123I]-iodo-PK11195 for mapping peripheral-type benzodiazepine receptors (omega 3) in heart. Gildersleeve DL, et al. **Nucl Med Biol** 1996 Jan;23(1):23-8

Synthesis of fatty acids specifically labelled with 11C in various positions, including 2H substitution, for in vivo studies of myocardium using PET. Kihlberg T, et al. **Nucl Med Biol** 1994 Nov;21(8):1053-65

Synthesis of [1-11C], [2-11C], [1-11C](2H3) and [2-11C](2H3)acetate for in vivo studies of myocardium using PET. Kihlberg T, et al. **Nucl Med Biol** 1994 Nov; 21(8):1067-72

76Br-MBBG, a PET radiotracer to investigate the norepinephrine neurological and vesicular transproters in the heart. Maziere B, et al. **Nucl Med Biol** 1995 Nov; 22(8):1049-52

Some new methods for the synthesis of cardiac neurotransmission PET radiotracers. Någren K, et al. **Nucl Med Biol** 1995 Nov;22(8):1037-43 (21 ref.)

Mechanism-based strategies for mapping heart sympathetic nerve function. Raffel DM, et al. **Nucl Med Biol** 1995 Nov; 22(8):1019-26 (45 ref.)

Biological evaluation of 5-methyl-branched-chain omega-[18F]fluorofatty acid: a potential myocardial imaging tracer for positron emission tomography. Takahashi T, et al. **Nucl Med Biol** 1996 Apr;23(3):303-8

Relevance of PET/SPET tracers for cardiac neurotransmission. Voipio-Pulkki LM. **Nucl Med Biol** 1995 Nov;22(8):1027-35 (68 ref.)

Cardiac 18F-FDG-SPET studies in patients with

non-insulin-dependent diabetes mellitus during hyperinsulinaemic euglycaemic clamping. Bax JJ, et al. **Nucl Med Commun** 1997 Mar;18(3):200-6

Computer-generated attenuation correction does not improve the accuracy of myocardial perfusion scintigraphy. Birkenfeld B, et al. **Nucl Med Commun** 1997 Apr; 18(4):358-62

Effect of an additional atropine injection during dobutamine infusion for myocardial SPET. Caner B, et al. **Nucl Med Commun** 1997 Jun;18(6):567-73

Are MIBI/tetrofosmin heart studies a potential radiation hazard to technologists? Clarke EA, et al. **Nucl Med Commun** 1997 Jun;18(6):574-7

Sublingual nitrate plus 99Tcm-tetrofosmin infusion in the detection of severely ischaemic but viable myocardium: a comparative study with stress, redistribution, reinjection and late redistribution 201Tl imaging. Derebek E, et al. **Nucl Med Commun** 1996 Oct;17(10):864-71

Determination of left ventricular cardiac volume by simultaneous radionuclide angiography and measurement of oxygen consumption at rest and during maximal exercise: a comparison of two non-invasive isotopic procedures. Faraggi M, et al. **Nucl Med Commun** 1996 Dec; 17(12):1039-46

Myocardial viability assessed with fluorodeoxyglucose and PET in patients with Q wave myocardial infarction receiving thrombolysis: relationship to coronary anatomy and ventricular function. Fragasso G, et al. **Nucl Med Commun** 1997 Mar;18(3):191-9

240 degrees: why not? Hambye AS, et al. **Nucl Med Commun** 1996 Jul;17(7):583-90

The usefulness of stress tests performed in the nuclear medicine department: mathematical methods to assess efficacy at various angiographic endpoints. Hurwitz GA, et al. **Nucl Med Commun** 1996 Jun;17(6):463-74

Stress/injection protocols for myocardial scintigraphy with 99Tcm-sestamibi compared with 201Tl: implications of early post-stress kinetics. Hurwitz GA, et al. **Nucl Med Commun** 1996 May;17(5):400-9

'Reverse redistribution pattern' during myocardial perfusion imaging with 99Tcm-MIBI. Kao CH, et al. **Nucl Med Commun** 1996 May;17(5):397-9

Scatter correction for first-pass radiocardiography. Kauppinen T, et al. **Nucl Med Commun** 1996 Nov; 17(11):975-8

123I-MIBG myocardial scintigraphy in diabetic patients: relationship to autonomic neuropathy. Nagamachi S, et al. **Nucl Med Commun** 1996 Jul;17(7):621-32

Resuscitation following arrhythmia in patients undergoing pharmacological/exercise stress for myocardial perfusion imaging [editorial] Prvulovich E. **Nucl Med Commun** 1996 Dec;17(12):1003-5 (11 ref.)

Transmission scanning for attenuation correction of myocardial 201Tl images in obese patients. Prvulovich EM, et al. **Nucl Med Commun** 1997 Mar;18(3):207-18

Frequency of extra-cardiac activity and its effect on 99Tcm-MIBI cardiac SPET interpretation. Rehm PK, et al. **Nucl Med Commun** 1996 Oct;17(10):851-6

Cardiac 123I-MIBG uptake is affected by variable uptake in reference regions: implications for interpretation in clinical studies. Somsen GA, et al. **Nucl Med Commun** 1996 Oct;17(10):872-6

Clinical outcome of patients evaluated with emergency centre myocardial perfusion SPET for unexplained chest pain. Stewart RE, et al. **Nucl Med Commun** 1996 Jun; 17(6):459-62

Quantitative analysis of defect reversibility after immediate and standard 201Tl reinjection. Van Eck-Smit BL, et al. **Nucl Med Commun** 1996 Oct;17(10):857-63

Myocardial SPET imaging with 99Tcm-tetrofosmin in clinical practice: comparison of a 1 day and a 2 day imaging protocol. van Eck-Smit BL, et al. **Nucl Med Commun** 1997 Jan;18(1):24-30

Rest or redistribution thallium myocardial imaging for resting myocardial perfusion: a detailed comparison with regional wall motion. Woldman S, et al. **Nucl Med Commun** 1996 Oct;17(10):843-50

Quantitative scintigraphic analysis of 123I-MIBG by polar map in patients with dilated cardiomyopathy. Yamazaki J, et al. **Nucl Med Commun** 1997 Mar;18(3):219-29

Non-uniform attenuation correction for myocardial SPET using two Gd-153 line sources. Kluge R, et al. **Nuklearmedizin** 1996 Dec;35(6):205-11

Assessment of myocardial viability in persistent defects on thallium-201 SPECT after reinjection using gradient-echo MRI. Morguet AJ, et al. **Nuklearmedizin** 1996 Oct; 35(5):146-52

Noninvasive evaluation of coronary artery disease and myocardial viability through stress echocardiography and myocardial perfusion imaging. Beattie S, et al. **Nurse Pract** 1997 Aug;22(8):32, 34, 39-40 passim (18 ref.)

Review of tests for monitoring doxorubicin-induced cardiomyopathy. Ganz WI, et al. **Oncology** 1996 Nov-Dec; 53(6):461-70 (62 ref.)

Ion-pairing interactions between 99MTc-based myocardial imaging agents and oleic acid. Heard CM, et al. **Pharm Res** 1996 Feb;13(2):316-23

The comparative safety and diagnostic accuracy of adenosine myocardial perfusion imaging in women versus men. Mohiuddin SM, et al. **Pharmacotherapy** 1996 Jul-Aug; 16(4):646-51

An attenuation measurement technique for rotating planar detector positron tomographs. McNeil PA, et al. **Phys Med Biol** 1997 Aug;42(8):1633-51

Segmented attenuation correction using artificial neural networks in positron tomography. Yu SK, et al. **Phys Med Biol** 1996 Oct;41(10):2189-206

Automated determination of the left ventricular long axis in cardiac positron tomography. deKemp RA, et al. **Physiol Meas** 1996 May;17(2):95-108

The role of imaging techniques in stress testing. Manoucheri M, et al. **Prim Care** 1994 Sep;21(3):535-55 (66 ref.)

Assessment of a cooperative workstation. Beuscart RJ, et al. **Proc AMIA Annu Fall Symp** 1996;:742-6

SPECT versus planar 99mTc-sestamibi myocardial scintigraphy: comparison of accuracy and impact on patient management in chronic ischemic heart disease. Cramer MJ, et al. **Q J Nucl Med** 1997 Mar;41(1):1-9

Detection of hibernated myocardium using intracoronary technetium-99m-sestamibi. Giordano A, et al. **Q J Nucl Med** 1997 Mar;41(1):46-50 (30 ref.)

Use of [123I]MIBG to assess cardiac adrenergic innervation: experience in hypertensive cardiopathy and left ventricular aneurysms. Giordano A, et al. **Q J Nucl Med** 1995 Dec; 39(4 Suppl 1):44-8

Pharmacokinetics of radioiodinated fatty acid myocardial imaging agents in animal models and human studies. Knapp FF Jr, et al. **Q J Nucl Med** 1996 Sep;40(3):252-69 (97 ref.)

Clinical use of metaiodobenzylguanidine imaging in cardiology. Merlet P, et al. **Q J Nucl Med** 1995 Dec;39(4 Suppl 1):29-39 (79 ref.)

Evaluation of the left ventricular performance through equilibrium radionuclide angiocardiography. Boix JH, et al. **Rev Esp Fisiol** 1995 Dec;51(4):177-86

False-positive myocardial perfusion scintigraphy in syndrome X. Kataoka T, et al. **Semin Nucl Med** 1997 Apr; 27(2):186-9

Present assessment of myocardial viability by nuclear imaging. Saha GB, et al. **Semin Nucl Med** 1996 Oct; 26(4):315-35 (117 ref.)

Incidence and functional significance of sympathetic reinnervation after cardiac transplantation. Parry DS, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):569-70

[Value of cardiac scintigraphy with I123 meta-iodobenzylguanidine in congestive heart failure. A review] Agostini D, et al. **Ann Cardiol Angeiol (Paris)** 1997 May-Jun;46(5-6):293-302 (50 ref.) (Eng. Abstr.) **(Fre)**

[Value of myocardial exploration by isotopic technique in diabetes] Le Guludec D, et al. **Ann Endocrinol (Paris)** 1997; 58(1):47-54 (37 ref.) **(Fre)**

[Functional/metabolic CAD diagnosis: arbutamine-RNV, stress-Echo, Tl-SPECT and gated FDG-PET] Adams S, et al. **Nuklearmedizin** 1997 Jun;36(4):146-9 (Eng. Abstr.) **(Ger)**

[18Fluoro-FDG SPECT for the demonstration of hibernating myocardium: an interim account] Alexander C, et al. **Nuklearmedizin** 1997 Jun;36(4):125-30 (Eng. Abstr.) **(Ger)**

[Pseudodefects in myocardial SPECT after implantation of defibrillator patches: phantom measurement with SPECT and PET] Buchert R, et al. **Nuklearmedizin** 1996 Dec; 35(6):212-9 (Eng. Abstr.) **(Ger)**

[Whole body distribution of Tc-99m-sestamibi after pharmacological stress with arbutamine and dipyridamole compared with resting conditions] Kotzerke J, et al. **Nuklearmedizin** 1997 Jan;36(1):19-22 (Eng. Abstr.) **(Ger)**

[A method for combined scatter and attenuation correction without transmission measurement for myocardial SPECT with 99m-Tc binding] Kupferschläger J, et al. **Nuklearmedizin** 1997 Mar;36(2):56-64 (Eng. Abstr.) **(Ger)**

[Radiation exposure in the surrounding of patients after 201Tl myocardial scintigraphy] Kurtaran A, et al. **Nuklearmedizin** 1997 Jan;36(1):29-31 (Eng. Abstr.) **(Ger)**

[Impairment of myocardial perfusion reserve in microvascular angina (syndrome X): assessment by 99mTc-MIBI-SPECT] Langes K, et al. **Nuklearmedizin** 1996 Dec;35(6):193-7 (Eng. Abstr.) **(Ger)**

[Assessment of myocardial viability using 201TL SPECT at rest to predict the reversibility of left ventricular wall motion abnormalities] Schulz G, et al. **Nuklearmedizin** 1996 Dec;35(6):198-204 (Eng. Abstr.) **(Ger)**

[Changes in myocardial Tc-99m-sestamibi uptake in asynergic territories during low-dose echo-dobutamine test] Leoncini M, et al. **G Ital Cardiol** 1996 Nov; 26(11):1243-55 (Eng. Abstr.) **(Ita)**

[Clinical usefulness of 123I-BMIPP (beta-methyl iodophenyl pentadecanoic (acid) myocardial SPECT in patients with hematological malignancies with adriamycin-induced cardiomyopathy] Niitsu N, et al. **Gan To Kagaku Ryoho** 1996 Nov;23(13):1793-7 (Eng. Abstr.) **(Jpn)**

[Myocardial adrenergic nerve activity in valvular diseases assessed by iodine-123-metaiodobenzylguanidine myocardial scintigraphy] Imamura Y, et al. **J Cardiol** 1997; 29 Suppl 2:21-6 (Eng. Abstr.) **(Jpn)**

[Evaluation of myocardial sympathetic nerve function in patients with mitral valve prolapse using iodine-123-metaiodobenzylguanidine myocardial scintigraphy] Kishi F, et al. **J Cardiol** 1996;27 Suppl 2:21-8; discussion 29-30 (Eng. Abstr.) **(Jpn)**

[A 42-year-old woman with cardiac tumor and tamponade] Nakayama M, et al. **J Cardiol** 1996 Dec;28(6):355-6 **(Jpn)**

[Myocardial sympathetic activity and characteristics in hypertrophic cardiomyopathy: comparison with hypertensive hypertrophy] Narita M, et al. **J Cardiol** 1996 Mar;27(3):133-41 (Eng. Abstr.) **(Jpn)**

[Usefulness of 99mTc-tetrofosmin myocardial scintigraphy before and after coronary intervention] Adachi I, et al. **Kaku Igaku** 1997 Jun;34(6):363-9 (Eng. Abstr.) **(Jpn)**

[Residual activity or defect reversibility on stress-redistribution-reinjection 201Tl SPECT: which is the better marker of myocardial viability?] Fujino S, et al. **Kaku Igaku** 1996 Dec;33(12):1309-17 (Eng. Abstr.) **(Jpn)**

[Calculation of left ventricular volume and ejection fraction from ECG-gated myocardial SPECT: automatic detection of endocardial borders by threshold method] Fukushi S, et al. **Kaku Igaku** 1997 Jan;34(1):1-6 (Eng. Abstr.) **(Jpn)**

[Scatter and attenuation correction for quantitative myocardial SPECT imaging] Hashimoto J, et al. **Kaku Igaku** 1996 Sep;33(9):1015-9 (Eng. Abstr.) **(Jpn)**

[Usefulness of 123I-BMIPP scanning for distinction of ischemic from nonischemic dilated cardiomyopathy] Hirose Y, et al. **Kaku Igaku** 1996 Jan;33(1):19-25 (Eng. Abstr.) **(Jpn)**

[Evaluation of the graft flow reserve after coronary artery bypass grafting by stress 201Tl myocardial SPECT: comparison between arterial grafts and venous grafts] Ichikawa A, et al. **Kaku Igaku** 1997 Jan;34(1):19-23 (Eng. Abstr.) **(Jpn)**

[Relationship between exercise induced ischemia and left ventricular dysfunction; simultaneous assessment of perfusion and function images with 99mTc-tetrofosmin myocardial scintigraphy] Imai K, et al. **Kaku Igaku** 1996 Sep;33(9):981-9 (Eng. Abstr.) **(Jpn)**

[Usefulness of 201Tl/123I-BMIPP myocardial SPECT to evaluate myocardial viability and area at risk in acute myocardial infarction--comparison with 201Tl/99mTc-PYP dual SPECT] Isobe N, et al. **Kaku Igaku** 1997 Apr;34(4):213-20 (Eng. Abstr.) **(Jpn)**

[Evaluation of a method to determine the myocardial uptake from 123I-BMIPP myocardial SPECT and its significance] Iwase M, et al. **Kaku Igaku** 1996 Oct;33(10):1043-52 (Eng. Abstr.) **(Jpn)**

[Evaluation of reconstruction arc in myocardial SPECT imaging using a cardiac phantom--comparison between 360 degrees and 180 degrees arcs] Kashikura K, et al. **Kaku Igaku** 1996 Oct;33(10):1097-103 (Eng. Abstr.) **(Jpn)**

[Evaluation of myocardial perfusion by 99mTc-tetrofosmin SPECT before and after emergent percutaneous transluminal coronary angioplasty for acute myocardial infarction] Kawai Y, et al. **Kaku Igaku** 1997 Apr; 34(4):221-8 (Eng. Abstr.) **(Jpn)**

[The usefulness and the problems of attenuation correction using simultaneous transmission and emission data acquisition method: studies on normal volunteers and phantom] Kijima T, et al. **Kaku Igaku** 1997 Mar; 34(3):167-76 (Eng. Abstr.) **(Jpn)**

[A calculation of an index of the coronary flow reserve using exercise and rest myocardial SPECT with 99mTc-tetrofosmin] Kinoshita N, et al. **Kaku Igaku** 1997 Jan;34(1):45-8 (Eng. Abstr.) **(Jpn)**

[Effect of wall thickness of left ventricle on 201Tl myocardial SPECT images: myocardial phantom study] Koto M, et al. **Kaku Igaku** 1996 Jul;33(7):771-7 (Eng. Abstr.) **(Jpn)**

[ECG-gated myocardial SPECT with 99mTc-MIBI in patients with right ventricular infarction] Kumita S, et al. **Kaku Igaku** 1996 Jun;33(6):635-9 (Eng. Abstr.) **(Jpn)**

[Assessment of left ventricular systolic function derived from ECG-gated myocardial SPECT with 99mTc-tetrofosmin: automatic determination of LV epi- and endocardial surface] Kumita S, et al. **Kaku Igaku** 1997 Apr;34(4):237-42 (Eng. Abstr.) **(Jpn)**

[ECG-gated dual-isotope myocardial SPECT with 201Tl and 99mTc-tetrofosmin: simultaneous assessment of stress/rest myocardial perfusion and left ventricular function] Kumita S, et al. **Kaku Igaku** 1996 Nov; 33(11):1189-96 (Eng. Abstr.) **(Jpn)**

[Fatty acid metabolic disorder detected by 123I-BMIPP SPECT shortly after elective percutaneous transluminal coronary angioplasty] Kuwabara Y, et al. **Kaku Igaku** 1996 Jan;33(1):9-17 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of 123I-BMIPP myocardial SPECT in patients with hypertensive heart disease and hypertrophic cardiomyopathy: comparison with the findings of 201Tl SPECT and Gd enhanced magnetic resonance imaging] Miyanaga H, et al. **Kaku Igaku** 1997 Feb;34(2):85-93 (Eng. Abstr.) **(Jpn)**

[Optimal protocol for 99mTc-tetrofosmin myocardial SPECT imaging with exercise or dipyridamole stress test and the characteristics of bullseye normal file] Nakagawa S, et al. **Kaku Igaku** 1996 Oct;33(10):1073-82 (Eng. Abstr.) **(Jpn)**

[Clinical significance of myocardial 123I-BMIPP imaging in patients with myocardial infarction] Narita M, et al. **Kaku Igaku** 1997 Mar;34(3):177-87 (Eng. Abstr.) **(Jpn)**

[The serial change of the 123I-BMIPP SPECT in patients with hypertrophic cardiomyopathy] Okuyama C, et al. **Kaku Igaku** 1996 Dec;33(12):1329-36 (Eng. Abstr.) **(Jpn)**

[The usefulness of 18F-FDG SPECT imaging in evaluating myocardial viability] Sato H, et al. **Kaku Igaku** 1997 Mar; 34(3):137-43 (Eng. Abstr.) **(Jpn)**

[Quantitative assessment of an increase of myocardial

99mTc-MIBI accumulation during exercise--usefulness of response rate] Takahashi K, et al. **Kaku Igaku** 1996 Jul; 33(7):779-84 (Eng. Abstr.) **(Jpn)**

[Significance of 123I-metaiodobenzylguanidine SPECT for detecting left ventricular involvement in patients with arrhythmogenic right ventricular dysplasia] Takahashi N, et al. **Kaku Igaku** 1996 Jan;33(1):57-67 (Eng. Abstr.) **(Jpn)**

[Basic study of continuous repetitive data acquisition using a phantom] Takahashi Y, et al. **Kaku Igaku** 1996 Dec; 33(12):1363-9 (Eng. Abstr.) **(Jpn)**

[Angle of defect on 123I-MIBG myocardial SPECT] Terada K, et al. **Kaku Igaku** 1997 Feb;34(2):113-7 (Eng. Abstr.) **(Jpn)**

[Evaluation of simultaneous acquisition of transmission and emission data on thallium-201 myocardial SPECT] Tomiguchi S, et al. **Kaku Igaku** 1996 Sep;33(9):1027-35 (Eng. Abstr.) **(Jpn)**

[The regional wall motion and the myocardial fatty acid metabolism at hibernating myocardium] Toyama T, et al. **Kaku Igaku** 1996 Jun;33(6):607-15 (Eng. Abstr.) **(Jpn)**

[The mechanism of giant negative T wave in electrocardiogram in patients with apical hypertrophic cardiomyopathy: evaluation with thallium-201 and iodine-123 metaiodobenzylguanidine myocardial scintigraphy] Wang Y, et al. **Kaku Igaku** 1996 Sep; 33(9):999-1004 (Eng. Abstr.) **(Jpn)**

[Usefulness of 123I-BMIPP myocardial scintigraphy for evaluation of the left ventricular function in patients with chronic heart failure] Watanabe K, et al. **Kaku Igaku** 1996 Jul;33(7):743-51 (Eng. Abstr.) **(Jpn)**

[The clinical value of BMIPP on the evaluation of myocardial ischemia and metabolism before and after CABG] Hayashi I, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul; 44(7):912-7 (Eng. Abstr.) **(Jpn)**

[Case of primary postural hypotension without somatic neural symptoms and showing a marked reduction in the cardiac isotope uptake in 123 I MIBG scintigraphy] Matsushita T, et al. **Nippon Naika Gakkai Zasshi** 1997 May 10; 86(5):843-5 **(Jpn)**

[Metabolic, adrenergic, and systolic function assessed by cardiac SPECT] Hattori N, et al. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:656-61 (8 ref.) **(Jpn)**

[Evaluation of oxidative metabolism in the myocardium] Kudoh T. **Nippon Rinsho** 1997 Mar;55 Suppl 1:648-50 (9 ref.) **(Jpn)**

[Evaluation of myocardial perfusion and injured myocardium by scintigraphy] Nakajima K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:651-5 (7 ref.) **(Jpn)**

[Total defect of metaiodobenzylguanidine (MIBG) imaging on heart in Parkinson's disease: assessment of cardiac sympathetic denervation] Satoh A, et al. **Nippon Rinsho** 1997 Jan;55(1):202-6 (Eng. Abstr.) **(Jpn)**

[Cardiac impairment of elderly patients with diabetes mellitus as studied with non-invasive myocardial scintigraphy and signal-averaged electrocardiography] Matsuki T, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jun;33(6):465-9 (Eng. Abstr.) **(Jpn)**

[Mechanism of silent myocardial ischemia in elderly patients with coronary artery disease--assessment by dipyridamole thallium scintigraphy] Murai T, et al. **Nippon Ronen Igakkai Zasshi** 1997 May;34(5):402-8 (Eng. Abstr.) **(Jpn)**

[A case of familial amyotrophic lateral sclerosis with markedly decreased accumulation on 123I-MIBG myocardiac scintigraphy and atonic bladder] Yamamoto T, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):341-4 (Eng. Abstr.) **(Jpn)**

[Diabetic cardiomyopathy] Aizaki T. **Ryoikibetsu Shokogun Shirizu** 1996;(14):174-7 (20 ref.) **(Jpn)**

[A case of sarcoidosis with massive pleural and pericardial effusion] Krawczyk I, et al. **Pneumonol Alergol Pol** 1997; 65(1-2):81-5 (Eng. Abstr.) **(Pol)**

[Positron emission tomography for assessment of myocardial perfusion and metabolism] Chižyński K. **Pol Tyg Lek** 1996 Mar;51(10-13):182-3 (17 ref.) **(Pol)**

[Radioisotopic methods of estimating perfusion and viability (metabolism) of the myocardium] Budlewski T, et al. **Przegl Lek** 1997;54(1):46-51 (31 ref.) (Eng. Abstr.) **(Pol)**

[Scintigraphic evaluation of myocardial perfusion after using TI-201 in patients before and after successful percutaneous transluminal coronary angioplasty] Kostkiewicz M, et al. **Przegl Lek** 1996;53(6):468-71 (Eng. Abstr.) **(Pol)**

[Myocardial perfusion scintigraphy for diagnosis and risk stratification in stable angina pectoris] Gil VM. **Acta Med Port** 1997 Apr;10(4):255-61 (35 ref.) (Eng. Abstr.) **(Por)**

[Myocardial tomoscintigraphy with 201Tl in the diagnosis of cardiac involvement in systemic scleroderma] Samollenko LE, et al. **Ter Arkh** 1996;68(5):30-3 (Eng. Abstr.) **(Rus)**

[Evaluation of myocardial viability with technetium-99m isonitrile and thallium-201. Results of a Spanish multicenter trial] **Rev Esp Cardiol** 1997 May;50(5):320-30 (Eng. Abstr.) **(Spa)**

SECRETION see HEART/physiology

SURGERY see HEART SURGERY

TRANSPLANTATION see HEART

TRANSPLANTATION

ULTRASONOGRAPHY see ECHOCARDIOGRAPHY

ULTRASTRUCTURE see MYOCARDIUM/ultrastructure

VIROLOGY

Intracellular viral localization in murine coxsackievirus-B3 myocarditis. Ultrastructural study by electron microscopic in situ hybridization. Ukimura A, et al. **Am J Pathol** 1997 Jun;150(6):2061-74

Clinical meaning of ventricular ectopic beats in the diagnosis of HIV-related myocarditis: a retrospective analysis of Holter electrocardiographic recordings, echocardiographic parameters, histopathological and virologic findings. Barbaro G, et al. **Cardiologia** 1996 Dec;41(12):1199-207

Cytomegalovirus infection-enhanced cardiac allograft vasculopathy is abolished by DHPG prophylaxis in the rat. Lemström K, et al. **Circulation** 1997 Jun 17; 95(12):2614-6

Viral infection of the myocardium in endocardial fibroelastosis. Molecular evidence for the role of mumps virus as an etiologic agent. Ni J, et al. **Circulation** 1997 Jan 7;95(1):133-9

Chronic variant of myocarditis associated with hepatitis C virus infection. Okabe M, et al. **Circulation** 1997 Jul 1; 96(1):22-4

Serological and molecular evidence of enterovirus infection in patients with end-stage dilated cardiomyopathy. Muir P, et al. **Heart** 1996 Sep;76(3):243-9

Coxsackievirus B3 genomes detected by polymerase chain reaction: evidence of latent persistency in the myocardium in experimental murine myocarditis. Adachi K, et al. **Histol Histopathol** 1996 Jul;11(3):587-96

Endogenous retroviral transcripts in myocytes from spontaneously hypertensive rats. Sirokman G, et al. **Hypertension** 1997 Jul;30(1 Pt 1):88-93

Detection of enteroviral RNA by polymerase chain reaction in endomyocardial tissue of patients with chronic cardiac diseases. Andreoletti L, et al. **J Med Virol** 1996 Jan; 48(1):53-9

Experimental CVB3-induced chronic myocarditis in two murine strains: evidence of interrelationships between virus replication and myocardial damage in persistent cardiac infection. Andréoletti L, et al. **J Med Virol** 1997 Jun; 52(2):206-14

Reovirus-induced acute myocarditis in mice correlates with viral RNA synthesis rather than generation of infectious virus in cardiac myocytes. Sherry B, et al. **J Virol** 1996 Oct;70(10):6709-15

Ultrarapid, highly efficient viral gene transfer to the heart. Donahue JK, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4664-8

Generation of an infectious cDNA of a highly cardiovirulent coxsackievirus B3(CVB3m) and comparison to other infectious CVB3 cDNAs. Lee C, et al. **Virus Res** 1997 Aug; 50(2):225-35

HEART ABNORMALITIES see HEART DEFECTS, CONGENITAL

HEART ANEURYSM

[Aneurysms of the atrial septum] Marazanof M, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1189-95 (33 ref.) (Eng. Abstr.) **(Fre)**

[Subepicardial aneurysm] Itagane H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):528-30 (4 ref.) **(Jpn)**

[Idiopathic left ventricular aneurysm] Ohtaki E. **Ryoikibetsu Shokogun Shirizu** 1996;(15):588-90 (20 ref.) **(Jpn)**

[Cardiac aneurysm] Ohtaki E. **Ryoikibetsu Shokogun Shirizu** 1996;(15):567-70 (20 ref.) **(Jpn)**

CLASSIFICATION

Atrial septal aneurysm: a new classification in two hundred five adults. Olivares-Reyes A, et al. **J Am Soc Echocardiogr** 1997 Jul-Aug;10(6):644-56

COMPLICATIONS

Left ventricular pseudoaneurysm: a cause of unilateral pulmonary edema by compressing the left pulmonary artery. Cocina EG, et al. **Am Heart J** 1996 Dec; 132(6):1306-7

Interatrial septal aneurysms and atrial arrhythmias in infants. Miga DE, et al. **Am Heart J** 1996 Oct;132(4):776-8

Aneurysm of the membranous ventricular septum resulting in pulmonary outflow tract obstruction in congenitally corrected transposition of the great arteries. Reddy SC, et al. **Am Heart J** 1997 Jan;133(1):112-9 (35 ref.)

Coincidence of true and false left ventricular aneurysm. Das AK, et al. **Ann Thorac Surg** 1997 Sep;64(3):831-4 (10 ref.)

Submitral left ventricular aneurysm compressing the left main coronary artery [see comments] Skoularigis J, et al. **Cathet Cardiovasc Diagn** 1997 Feb;40(2):173-5. Comment in: Cathet Cardiovasc Diagn 1997 Feb;40(2):176.

Subaortic left ventricular aneurysm presenting with complete heart block. Abhaichand RK, et al. **Indian Heart J** 1995 Sep-Oct;47(5):497-8

Chronic aneurysmatic dilatation: a possible source of lethal embolization in patients with acute myocardial infarction undergoing thrombolysis. Bellone P, et al. **Int J Cardiol** 1996 Oct 11;56(2):201-4

Significance of atrial septal aneurysm: report of a case. Moorthy SS, et al. **J Clin Anesth** 1996 Nov;8(7):595-7

Percutaneous mitral valvulotomy in the presence of atrial septal aneurysm. Sarikamis C, et al. **J Heart Valve Dis** 1997 Jan;6(1):71-3

Aneurysm of a patent ductus arteriosus in an adult. Tofukuji M, et al. **Surg Today** 1996;26(9):737-9

[Patent foramen ovale, aneurysm of the interatrial septum and cerebral ischemic complication] Mas JL. **Ann Cardiol Angeiol (Paris)** 1996 Nov;45(9):531-7 (35 ref.) (Eng. Abstr.) **(Fre)**

[Recognition of cardiac normal variants as the cause of cerebral ischemia: significance of transesophageal echocardiography] Kücherer H, et al. **Z Kardiol** 1996 Dec; 85(12):917-23 (Eng. Abstr.) **(Ger)**

[Brain embolism associated with atrial septal aneurysm] Terasaki T, et al. **Rinsho Shinkeigaku** 1997 Feb;37(2):131-4 (Eng. Abstr.) **(Jpn)**

[Mitral subvalvular aneurysm of the left ventricle] Terzi CB, et al. **Arq Bras Cardiol** 1996 Nov;67(5):351-3 (Eng. Abstr.) **(Por)**

[Transient cerebral and bone marrow ischemia in patients with atrioseptal aneurysm] Molina Cateriano C, et al. **Med Clin (Barc)** 1996 Jun 15;107(3):99-101 (Eng. Abstr.) **(Spa)**

[Ventricular tachycardia in a patient with mid-ventricular hypertrophic myocardiopathy and apical aneurysm] López-Mínguez JR, et al. **Rev Esp Cardiol** 1997 Aug; 50(8):593-6 (Eng. Abstr.) **(Spa)**

CONGENITAL

Congenital giant left atrial aneurysm in an infant [letter] Zimand S, et al. **Eur Heart J** 1997 Jun;18(6):1034-5

Congenital aneurysm of the muscular interventricular septum with patent ductus arteriosus. Mohan JC, et al. **Indian Heart J** 1997 Jan-Feb;49(1):83-4

Congential giant aneurysms of the left atrial appendage: diagnosis and management. Gold JP, et al. **J Card Surg** 1996 Mar-Apr;11(2):147-50 (17 ref.)

[Resection of congenital aneurysm in the posterior wall of left ventricle communicated to the right atrium] Yanagiya A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May; 44(5):678-81 (Eng. Abstr.) **(Jpn)**

[Congenital ventricular aneurysm and congenital apical aneurysm] Aoki T. **Ryoikibetsu Shokogun Shirizu** 1996; (13):187-9 (20 ref.) **(Jpn)**

DIAGNOSIS

Distinguishing left ventricular aneurysm from pseudoaneurysm. A review of the literature. Brown SL, et al. **Chest** 1997 May;111(5):1403-9 (44 ref.)

Congenital giant left atrial aneurysm in an infant [letter] Zimand S, et al. **Eur Heart J** 1997 Jun;18(6):1034-5

Intrapericardial left atrial aneurysm: noninvasive diagnosis. Sigfússon G, et al. **Pediatr Cardiol** 1997 May-Jun; 18(3):240-3

[Combination of true and false left ventricular aneurysm. Cine-MRI diagnosis] Darremont O, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1311-5 (Eng. Abstr.) **(Fre)**

[Giant aneurysm of the interventricular septum. Value of imaging techniques] Revel F, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):285-9 (Eng. Abstr.) **(Fre)**

[Septic myocardial aneurysm in mitral valve endocarditis. Clinical and pathological-anatomical findings] Omran H, et al. **Dtsch Med Wochenschr** 1997 Feb 7;122(6):156-60 (Eng. Abstr.) **(Ger)**

[The syndrome of mid-ventricular obstruction with apical aneurysm in hypertrophic myocardiopathy: presentation of a case] González Torrecilla E, et al. **Rev Esp Cardiol** 1997 Aug;50(8):586-9 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Escherichia coli endocarditis of a native mitral valve with paravalvular pseudoaneurysm formation and fatal hemopericardium. Oosterbosch L, et al. **Acta Cardiol** 1996; 51(6):535-40

LVOT pseudoaneurysm: a late complication of extended aortic root replacement. Jaggers J, et al. **Ann Thorac Surg** 1996 Oct;62(4):1198-9

Posttraumatic left ventricular pseudoaneurysm due to intramyocardial dissecting hematoma. Maselli D, et al. **Ann Thorac Surg** 1997 Sep;64(3):830-1

Posttraumatic aneurysm of the right atrium. von der Emde J, et al. **Ann Thorac Surg** 1996 Nov;62(5):1507-9

Ventricular aneurysm and coronary artery disease: the hen and the egg? [letter] Cheng TO. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):468

Cardiac involvement in seat belt-related and direct sternal trauma: a prospective study in management implications. Erbel R. **Eur Heart J** 1995 Nov;16(11):1742-3

Left ventricular false aneurysm after previous repair of acquired ventricular septal defect. Ridley PD, et al. **Eur J Cardiothorac Surg** 1996;10(1):68-70

Giant left ventricular inferior wall aneurysm. Das B, et al.

Indian Heart J 1997 Jan-Feb;49(1):77-8

Left ventricular pseudoaneurysm with left atrium tamponade: a rare postinfarction complication. Delgado C, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):582-7

Pseudoaneurysm of the left ventricle following repair for ventricular septal perforation. Watarida S, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):635-7

[A case report of multiple pseudoaneurysms of the left ventricle following acute myocardial infarction] Yasuda H, et al. **Kyobu Geka** 1996 May;49(5):392-4 (Eng. Abstr.) **(Jpn)**

[Myocardial infarction complicated by ventricular aneurysm] Horimoto M. **Ryoikibetsu Shokogun Shirizu** 1996; (12):709-12 (20 ref.) **(Jpn)**

MICROBIOLOGY

Salmonella endocarditis of a ventricular aneurysm: a case report and review of the literature. Amyot R, et al. **Can J Cardiol** 1997 Mar;13(3):299-301 (07 ref.)

Left ventricular pseudoaneurysm: an unusual complication of pericarditis and Staphylococcus aureus septicemia. Campos MM, et al. **Pediatr Infect Dis J** 1996 Apr; 15(4):380-2.

PATHOLOGY

[Pseudoaneurysm and aneurysm of the left ventricle. Discription of a case and long-term follow-up] Piccone U, et al. **Minerva Cardioangiol** 1997 May;45(5):245-50 (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

Left ventricular volume calculations using a multiplanar transoesophageal echoprobe; in vitro validation and comparison with biplane angiography. Krebs W, et al. **Eur Heart J** 1996 Aug;17(8):1279-88

Akinetic versus dyskinetic postinfarction scar: relation to surgical outcome in patients undergoing endoventricular circular patch plasty repair. Di Donato M, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1569-75

Radiofrequency catheter ablation of ventricular tachycardia in right ventricular cardiomyopathy: use of concealed entrainment to identify the slow conduction isthmus bounded by an aneurysm and the tricuspid annulus. Stark SI, et al. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):967-71

Left ventricular aneurysms: pathophysiologic observations and standard resection. Cox JL. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):113-22 (28 ref.)

[Experimental simulation of dyskinetic heart wall aneurysms] Hadland H, et al. **Biomed Tech (Berl)** 1996 Jul-Aug; 41(7-8):190-5 (Eng. Abstr.) **(Ger)**

[Assessment of the myocardial functional reserve in patients with left ventricular aneurysm by radionuclide ventriculography. Response to isotonic exercise] Pinto Giorgi MC, et al. **Arq Bras Cardiol** 1995 Dec;65(6):479-83 (Eng. Abstr.) **(Por)**

PREVENTION & CONTROL

[Prevention of left ventricular aneurysm formation and left ventricular remodeling caused by percutaneous transluminal coronary angioplasty performed 24-48 hours after onset of acute myocardial infarction] Kanamasa K, et al. **J Cardiol** 1996 Oct;28(4):199-205 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Calcified cardiac lesion. Gopal AK, et al. **Chest** 1996 Oct; 110(4):1097-8

Images in cardiovascular medicine. Marked calcified left ventricular aneurysm. Nakajima O, et al. **Circulation** 1997 Apr 1;95(7):1974

Left ventricular aneurysm: angiographic determinants. Jagtap PM, et al. **J Assoc Physicians India** 1995 May;43(5):331-3

Images in clinical medicine. Traumatic ventricular aneurysm. Jordan J, et al. **N Engl J Med** 1997 Feb 27;336(9):625

[Ventricular aneurysm or pseudoaneurysm?] Toussaint AC, et al. **Rev Med Liege** 1997;52(7):457-62 **(Fre)**

RADIONUCLIDE IMAGING

Prognosis in patients with left ventricular apical aneurysm diagnosed by thallium-201 or Tc-99m sestamibi SPECT images. Krawczynska EG, et al. **Am J Cardiol** 1997 Feb 15;79(4):406-11

Use of [123I]MIBG to assess cardiac adrenergic innervation: experience in hypertensive cardiopathy and left ventricular aneurysms. Giordano A, et al. **Q J Nucl Med** 1995 Dec; 39(4 Suppl 1):44-8

SURGERY

Surgical elimination of an atrial septal aneurysm causing cerebral embolism. Aksnes J, et al. **Ann Thorac Surg** 1996 Oct;62(4):1190-2

Repair of left ventricular aneurysm: long-term results of linear repair versus endoaneurysmorrhaphy. Shapira OM, et al. **Ann Thorac Surg** 1997 Mar;63(3):701-5

Recurrent left ventricular false aneurysm. Stanton MW, et al. **Ann Thorac Surg** 1997 May;63(5):1472-3

Surgical treatment of dissecting aneurysm of the interventricular septum. Wu Q. **Ann Thorac Surg** 1997 Feb; 63(2):545-7

Left ventricular endoaneurysmorrhaphy: effect on left ventricular size, shape and function. Çiçek S, et al. **Cardiology** 1997 Jul-Aug;88(4):340-5

Histologic findings of long-term cryolesions in a patient with ventricular tachycardia. Watanabe H, et al. **Cardiovasc Surg** 1996 Jun;4(3):409-11

Left ventricular aneurysmectomy; comparison between two techniques; early and late results. Sinatra R, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):291-7

Aneurysm of the membranous septum in adult patients with perimembranous ventricular septal defect. Yilmaz AT, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):307-11

Asymptomatic right atrial aneurysm: fortuitous finding and resection. Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):591-3 (8 ref.)

Akinetic versus dyskinetic postinfarction scar: relation to surgical outcome in patients undergoing endoventricular circular patch plasty repair. Di Donato M, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1569-75

Submitral left ventricular aneurysms: anesthetic considerations. Cooper A, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):922-5

Surgical repair of extensive myocardial infarction: ventricular aneurysmectomy according to Dor with exclusion-closure of ventricular septal perforation and mitral replacement: a case report. Robicsek F. **J Heart Valve Dis** 1996 Sep; 5(5):561-3

Left ventricular aneurysms: pathophysiologic observations and standard resection. Cox JL. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):113-22 (28 ref.)

Surgical management of left ventricular aneurysms: a clarification of the similarities and differences between the Jatene and Dor techniques. Cox JL. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):131-8

Left ventricular aneurysms: the endoventricular circular patch plasty. Dor V. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):123-30

Reconstructive left ventricular surgery for post-ischemic akinetic dilatation. Dor V. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):139-45

The treatment of refractory ischemic ventricular tachycardia by endoventricular patch plasty reconstruction of the left ventricle. Dor V. **Semin Thorac Cardiovasc Surg** 1997 Apr; 9(2):146-55

Endoaneurysmorrhaphy for left ventricular aneurysm. Follow-up in 69 patients. Hamulu A, et al. **Tex Heart Inst J** 1996;23(3):207-10

[The process of ventricular remodeling after acute myocardial infarct associated with left ventricular aneurysm and ventricular septum rupture treated with radical surgery] Hula J. **Vnitr Lek** 1997 Jan;43(1):7-12 (Eng. Abstr.) **(Cze)**

[Surgical correction of the ventricular geometry in post-infarction left ventricular aneurysms] Christenson JT, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1627-32 (Eng. Abstr.) **(Fre)**

[Endoventricular patch-plasty for reconstruction of ventricular geometry and pump function in myocardial aneurysm] Bohm J, et al. **Z Kardiol** 1996;85 Suppl 4:43-6; discussion 47-8 (Eng. Abstr.) **(Ger)**

[Surgical treatment of left ventricular aneurysm with acute myocardial infarction associated to mitral valve stenosis: a case report] Sunazawa T, et al. **Kyobu Geka** 1997 May; 50(5):400-3 (22 ref.) (Eng. Abstr.) **(Jpn)**

[A reconstruction of the left ventricle for post infarction left ventricular aneurysm complicated by ventricular septal perforation--a case report] Hata M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):792-5 (Eng. Abstr.) **(Jpn)**

[Resection of congenital aneurysm in the posterior wall of left ventricle communicated to the right atrium] Yanagiya A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May; 44(5):678-81 (Eng. Abstr.) **(Jpn)**

[Left ventricular aneurysm. The surgical results and follow-up] Brazão A, et al. **Rev Port Cardiol** 1997 Feb; 16(2):149-54, 124 (Eng. Abstr.) **(Por)**

[Surgical treatment of postinfarction left ventricular aneurysm] Mikheev AA, et al. **Klin Med (Mosk)** 1997; 75(8):27-30 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Mitral and tricuspid valve aneurysms evaluated by transesophageal echocardiography. Mollod M, et al. **Am J Cardiol** 1997 May 1;79(9):1269-72

Evolution of fetal ventricular aneurysms and diverticula of the heart: an echocardiographic study. Cavallé-Garrido T, et al. **Am J Perinatol** 1997 Aug;14(7):393-400

Images in cardiovascular medicine: Chagas' disease and ventricular aneurysms. Venegoni P, et al. **Circulation** 1997 Aug 19;96(4):1363

Images in cardiovascular medicine. Mitral valve aneurysm. Vilacosta I, et al. **Circulation** 1997 Apr 15;95(8):2169

The antenatal diagnosis of fetal atrial septal aneurysm. Haddad S, et al. **Gynecol Obstet Invest** 1996;41(1):27-9 (14 ref.)

Pseudoaneurysm of mitral-aortic intervalvular fibrosa in aortic valve endocarditis: transoesophageal echocardiographic diagnosis. Kothari SS, et al. **Indian Heart J** 1997 Jan-Feb;49(1):85-6

Unusual presentation of an atrial septal aneurysm with left atrial myxoma: a case report. Kolvekar SK, et al. **Int J Cardiol** 1997 Apr 18;59(2):197-8

Tomographic left ventricular volume determination in the presence of aneurysm by three-dimensional echocardiographic imaging. I: Asymmetric model hearts. Buck T, et al. **J Am Soc Echocardiogr** 1996 Jul-Aug; 9(4):488-500

Echocardiographic demonstration of coronary sinus diverticula in patients with Wolff-Parkinson-White syndrome. Hamilton K, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):337-43

Echocardiographic diagnosis of subepicardial aneurysm ruptured into the right ventricle after inferior myocardial infarction. Hironaka E, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):192-6

Pseudoaneurysm and ventricular septal rupture complicated with inferior myocardial infarction diagnosed by two-dimensional and Doppler echocardiography: case report. Kawai J, et al. **J Cardiol** 1996 Feb;27(2):77-83

Fetal atrial septal aneurysm. Prenatal diagnosis by ultrasonography. Pinette MG, et al. **J Reprod Med** 1997 Aug;42(8):459-62

Prenatal diagnosis of an aneurysm of the right atrium. Gross B, et al. **Prenat Diagn** 1996 Nov;16(11):1043-5

Prenatal diagnosis of left ventricular aneurysm in the late second trimester: a case report. Sherman SJ, et al. **Ultrasound Obstet Gynecol** 1996 Jun;7(6):456-7

[Aneurysmal dilatation of the left auricle of heart (letter)] Boey S, et al. **Presse Med** 1997 May 17;26(16):759 **(Fre)**

[Left ventricular pseudoaneurysm recognized 9 years after mitral valve replacement and repeated heart failure of 3 years duration: a case report] Emoto R, et al. **J Cardiol** 1996;27 Suppl 2:65-71; discussion 72 (Eng. Abstr.) **(Jpn)**

[Clinical analysis of infective endocarditis with aneurysmal formation of the mitral or aortic valve] Kinoshita N, et al. **J Cardiol** 1997 Aug;30(2):79-87 (Eng. Abstr.) **(Jpn)**

HEART ARREST

see related

RESUSCITATION

A high-resolution esophageal electrocardiogram for monitoring atrial activity in the hypothermic potassium-arrested heart. Maechler HE, et al. **Anesth Analg** 1997 Mar;84(3):484-90

Incidence of cardiac arrest during self-transport for chest pain. Becker L, et al. **Ann Emerg Med** 1996 Dec;28(6):612-6

Angiographic demonstration of inhibition of methyl-ergonovine-induced coronary vasospasm in a patient with sudden death. Cutler D, et al. **Cathet Cardiovasc Diagn** 1996 Oct;39(2):181-4

Clinically silent electrocardiographic abnormalities and risk of primary cardiac arrest among hypertensive patients. Siscovick DS, et al. **Circulation** 1996 Sep 15;94(6):1329-33

High-energy defibrillation increases the severity of postresuscitation myocardial dysfunction. Xie J, et al. **Circulation** 1997 Jul 15;96(2):683-8

Survival after cardiac arrest and severe acidosis (pH = 6.54) [letter] Fumeaux T, et al. **Intensive Care Med** 1997 May; 23(5):594 (4 ref.)

Asystole as a neurologic sign. Tyler DS, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):29-30

Perioperative maintenance of normothermia reduces the incidence of morbid cardiac events. A randomized clinical trial [see comments] Frank SM, et al. **JAMA** 1997 Apr 9;277(14):1127-34. Comment in: JAMA 1997 Apr 9;277(14):1165-6. Comment in: JAMA 1997 Aug 20;278(7):545; discussion 545-6.

Analysing calls by lay persons reporting cardiac arrest. Meron G, et al. **Resuscitation** 1996 Jul;32(1):23-6

Cardiac arrest research in humans--insights into failure. Paradis NA. **Resuscitation** 1996 Apr;31(2):93-100 (30 ref.)

Life after cardiac arrest; a retrospective study. Sunnerhagen KS, et al. **Resuscitation** 1996 Apr;31(2):135-40

Short- and long-term results with kidneys from non-heart-beating donors. Alonso A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1378-80

Transaminitis and thrombocytopenia following non-heart-beating renal transplantation. Andrews PA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1384-5

Initial cardiac arrest is a risk factor for failure of organ procurement in brain-dead patients. Delaunay L, et al. **Transplant Proc** 1996 Oct;28(5):2894

Viability assessment of non-heart-beating donor kidneys by alpha glutathione S-transferase in the machine perfusate. Kievit JK, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1381-3

Successful transplantation of liver grafts from non-heart-beating donors by synergistic use of prostaglandins (E1 and I2 analogue) and steroids. Kim YI, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1369-70

Ethical questions in non-heart-beating donorship. Kootstra G. **Transplant Proc** 1996 Dec;28(6):3417-8

Comparison of the results of renal transplants from conventional and non-heart-beating cadaveric donors. Nicholson ML, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1386-7

Favorable prognosis of kidney allografts from unconditioned cadaveric donors whose procurement was initiated after cardiac arrest. Shiroki R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1388-9

Non-heart-beating donor pigs: the feasibility of liver donation. Tabet J, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1374-5

Orthotopic liver transplantation from non-heart-beating donor rats: effect of flushing with cold/warm UW/SLS preservation solutions. Tojimbara T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1371-3

The asystolic donor syndrome: transaminitis and thrombocytopenia after non-heartbeating renal transplantation. Andrews PA, et al. **Transplantation** 1997 May 27;63(10):1400-4

The asystolic, or non-heartbeating, donor. Kootstra G. **Transplantation** 1997 Apr 15;63(7):917-21

Hepatic allograft procurement from non-heart-beating donors: limits of warm ischemia in porcine liver transplantation. Takada Y, et al. **Transplantation** 1997 Feb 15;63(3):369-73

BLOOD

Serum neuron-specific enolase as early predictor of outcome after cardiac arrest. Fogel W, et al. **Crit Care Med** 1997 Jul;25(7):1133-8

Intraosseous and central venous blood acid-base relationship during cardiopulmonary resuscitation. Kissoon N, et al. **Pediatr Emerg Care** 1997 Aug;13(4):250-3

Blood alcohol and cardiac arrest. Parke T, et al. **Resuscitation** 1996 Oct;32(3):199-202

Massive fibrin formation with consecutive impairment of fibrinolysis in patients with out-of-hospital cardiac arrest. Gando S, et al. **Thromb Haemost** 1997 Feb;77(2):278-82

Plasma thyroid hormone profiles immediately following out-of-hospital cardiac arrest. Longstreth WT Jr, et al. **Thyroid** 1996 Dec;6(6):649-53

CEREBROSPINAL FLUID

Cerebrospinal fluid creatine kinase BB isoenzyme activity and neurologic prognosis after cardiac arrest. Tirschwell DL, et al. **Neurology** 1997 Feb;48(2):352-7

CHEMICALLY INDUCED

Asystole and severe bradycardia during epidural anesthesia in orthopedic patients. Liguori GA, et al. **Anesthesiology** 1997 Jan;86(1):250-7

Acute hypermagnesemia after laxative use. Qureshi T, et al. **Ann Emerg Med** 1996 Nov;28(5):552-5

Lactic acidosis and fatal myocardial failure due to clozapine. Koren W, et al. **Ann Pharmacother** 1997 Feb;31(2):168-70

Fatal cardiac event following initiation of risperidone therapy. Ravin DS, et al. **Ann Pharmacother** 1997 Jul-Aug; 31(7-8):867-70

Cardiac arrest after caesarean section under subarachnoid block [letter; comment] Burns R, et al. **Br J Anaesth** 1997 Jan;78(1):110. Comment on: Br J Anaesth 1996 Aug;77(2):274-6.

Sinus arrest and severe peripheral vasodilation following cardiopulmonary bypass in a patient taking nicorandil [letter] Montgomery H, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):81

Asystole during dipyridamole infusion in patients without coronary artery disease or beta-blocker therapy. Frossard M, et al. **Clin Nucl Med** 1997 Feb;22(2):97-100 (16 ref.)

Terfenadine therapy: can we justify the risks? [editorial] Rangno R. **CMAJ** 1997 Jul 1;157(1):37-8

Cardiac arrest during dobutamine stress echocardiography. Salustri A, et al. **G Ital Cardiol** 1997 Jan;27(1):69-71

Eighteen cases exposed to sarin in Matsumoto, Japan [see comments] Suzuki J, et al. **Intern Med** 1997 Jul;36(7):466-70 . Comment in: Intern Med 1997 Jul;36(7):447.

Torsade de pointes with an antihistamine metabolite: potassium channel blockade with desmethylastemizole. Vorperian VR, et al. **J Am Coll Cardiol** 1996 Nov 15; 28(6):1556-61

Cardiac arrest after esmolol administration: a review of acute beta-blocker toxicity. Litman RS, et al. **J Am Osteopath Assoc** 1996 Oct;96(10):616-8 (27 ref.)

Lidocaine-induced cardiac asystole. Sadikot R, et al. **J Ark Med Soc** 1997 Jan;93(8):410-1

Vitamin K-induced cardiovascular collapse. Songy KA Jr, et al. **J Clin Anesth** 1997 Sep;9(6):514-9

Fatal bupropion overdose. Harris CR, et al. **J Toxicol Clin Toxicol** 1997;35(3):321-4

Sinus arrest during tacrolimus (FK506) and digitalis treatment in a bone marrow transplant recipient [letter] Sawabe T, et al. **Transplantation** 1997 Jul 15;64(1):182-3

[Cardiorespiratory arrest following ingestion of morphine sulfate in a patient with chronic renal failure (letter)] Moreau K, et al. **Presse Med** 1997 May 3-10;26(15):713 **(Fre)**

[Drug-induced rhabdomyolysis and lesions of peripheral nerves. Sequelae of local ischemia within the scope of circulatory collapse?] Amoiridis G, et al. **Nervenarzt** 1996 Dec;67(12):1023-6 (Eng. Abstr.) **(Ger)**

[Heart arrest during dipyridamole scintigraphy: report of 3 cases] Gallo G, et al. **G Ital Cardiol** 1996 May;26(5):533-8 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Serum neuron-specific enolase as a prognostic marker for irreversible brain damage in comatose cardiac arrest survivors. Martens P. **Acad Emerg Med** 1996 Feb; 3(2):126-31

Type of arrhythmia at EMS arrival on scene in out-of-hospital cardiac arrest in relation to interval from collapse and whether a bystander initiated CPR. Herlitz J, et al. **Am J Emerg Med** 1996 Mar;14(2):119-23

Ruptured aortic aneurysm and cardiac arrest associated with spinal anesthesia. Joshi GP, et al. **Anesthesiology** 1997 Jan; 86(1):244-7

Clinical trial of induced hypothermia in comatose survivors of out-of-hospital cardiac arrest. Bernard SA, et al. **Ann Emerg Med** 1997 Aug;30(2):146-53

Myocardial bridging in a young patient with sudden death. Cutler D, et al. **Clin Cardiol** 1997 Jun;20(6):581-3

Periodic complexes, absence-like status and suppression-burst pattern in coma following cardiorespiratory arrest. Ganji SS, et al. **Clin Electroencephalogr** 1997 Apr;28(2):76-86

The prognostication of cerebral hypoxia after out-of-hospital cardiac arrest in adults. Berek K, et al. **Eur Neurol** 1997; 37(3):135-45 (136 ref.)

Beta-protein immunoreactivity in the human brain after cardiac arrest. Wiśniewski HM, et al. **Folia Neuropathol** 1996;34(2):65-71

Platelet activation with massive formation of thromboxane A2 during and after cardiopulmonary resuscitation. Gando S, et al. **Intensive Care Med** 1997 Jan;23(1):71-6

Neurologic outcomes after cardiac resuscitation. Shively M, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):93-6 (5 ref.)

Cardiac arrest before repair or extracorporeal membrane oxygenation cannulation does not increase the mortality rate associated with congenital diaphragmatic hernia. Courcoulas AP, et al. **J Pediatr Surg** 1997 Jul;32(7):953-6; discussion 956-7

Tonic convulsion associated with sinus arrest due to hyperkalemia in a chronic hemodialysis patient [letter] Sakemi T, et al. **Nephron** 1996;73(2):370-1

Can catheter ablation in cardiac arrest survivors prevent ventricular fibrillation recurrence? Reek S, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1840-59 (167 ref.)

CT scanning as a helpful tool for decision-making during CPR [letter] Ladner E, et al. **Resuscitation** 1996 Apr; 31(2):171-3

An unusual cause of traumatic spinal cord injury: case report. Clinchot DM, et al. **Spinal Cord** 1997 Mar;35(3):181-2

[Paraplegia after cardiac arrest] Idali B, et al. **Ann Fr Anesth Reanim** 1996;15(2):199-201 (Eng. Abstr.) **(Fre)**

[Progressive abdominal distension and shock following cardiorespiratory arrest] Cabrera Zubizarreta A, et al. **Rev Clin Esp** 1996 Aug;196(8):563-4 **(Spa)**

DIAGNOSIS

QT interval dispersion in healthy subjects and survivors of sudden cardiac death: circadian variation in a twenty-four-hour assessment. Molnar J, et al. **Am J Cardiol** 1997 May 1;79(9):1190-3

Rationale and specifications for an automatic cardiac arrest-driven alarm and 911 caller ID (ACADA/911). Miller B. **Med Hypotheses** 1997 May;48(5):449-51

Objective measurements for guiding initiation, sequencing, and discontinuation of life-support intervention. Paradis NA. **New Horiz** 1997 May;5(2):158-63

Dispersion of the QT interval as a predictor of cardiac death in patients with coronary heart disease. Trusz-Gluza M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1900-4

Checking the carotid pulse check: diagnostic accuracy of first responders in patients with and without a pulse. Eberle B, et al. **Resuscitation** 1996 Dec;33(2):107-16

Prognosis among patients with out-of-hospital cardiac arrest judged as being caused by deterioration of obstructive pulmonary disease. Herlitz J, et al. **Resuscitation** 1996 Oct; 32(3):177-84

[Determinants of malignant vasovagal syncopes with asystole disclosed by the tilting test and therapeutic implications] Kouakam C, et al. **Ann Cardiol Angeiol (Paris)** 1997 Mar; 46(3):135-43 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

The effects of endothelin-1 on coronary perfusion pressure during cardiopulmonary resuscitation in a canine model. DeBehnke DJ, et al. **Acad Emerg Med** 1996 Feb;3(2):137-41

Sodium bicarbonate in cardiac arrest: a reappraisal. Vukmir RB, et al. **Am J Emerg Med** 1996 Mar;14(2):192-206 (184 ref.)

Aminophylline as an adjunct to standard advanced cardiac life support in prolonged cardiac arrest. Burton JH, et al. **Ann Emerg Med** 1997 Aug;30(2):154-8

Adrenaline, cardiac arrest and evidence based medicine [letter; comment] Inyang V. **J Accid Emerg Med** 1996 Nov; 13(6):433. Comment on: J Accid Emerg Med 1996 Jul;13(4):234-7.

Adrenaline, cardiac arrest, and evidence based medicine [see comments] Rainer TH, et al. **J Accid Emerg Med** 1996 Jul;13(4):234-7 (45 ref.). Comment in: J Accid Emerg Med 1996 Nov;13(6):433.

Efficacy and safety of d,l-sotalol in patients with ventricular tachycardia and in survivors of cardiac arrest. Haverkamp W, et al. **J Am Coll Cardiol** 1997 Aug;30(2):487-95

Randomised comparison of epinephrine and vasopressin in patients with out-of-hospital ventricular fibrillation. Lindner KH, et al. **Lancet** 1997 Feb 22;349(9051):535-7

Physostigmine has a life-saving effect in rats subjected to prolonged respiratory arrest. Guarini S, et al. **Neurosci Lett** 1997 Sep 5;232(3):123-6

The medical therapy of cardioinhibitory syncope in pediatric patients. Deal BJ, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1759-61

Pharmacology of pediatric resuscitation. Ushay HM, et al. **Pediatr Clin North Am** 1997 Feb;44(1):207-33 (129 ref.)

High-dose epinephrine is not superior to standard-dose epinephrine in pediatric in-hospital cardiopulmonary arrest. Carpenter TC, et al. **Pediatrics** 1997 Mar;99(3):403-8

High-dose versus standard-dose epinephrine treatment of cardiac arrest after failure of standard therapy. Sherman BW, et al. **Pharmacotherapy** 1997 Mar-Apr;17(2):242-7

Future directions for resuscitation research. IV. Innovative advanced life support pharmacology. Brown C, et al. **Resuscitation** 1996 Dec;33(2):163-77 (159 ref.)

Adenosine receptor antagonism in refractory asystolic cardiac arrest: results of a human pilot study. Mader TJ, et al. **Resuscitation** 1997 Aug;35(1):3-7

Case report--the successful use of naloxone in an asystolic pre-hospital arrest. Marsden AK, et al. **Resuscitation** 1996 Sep;32(2):109-10

High dose and standard dose adrenaline do not alter survival, compared with placebo, in cardiac arrest. Woodhouse SP, et al. **Resuscitation** 1995 Dec;30(3):243-9

Thyroid hormone in neural rescue. D'Alecy LG. **Thyroid** 1997 Feb;7(1):115-24

[Shall we discontinue with buffer therapy in heart arrest?] Brattebø G, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10; 116(27):3211 **(Nor)**

[Out-of-hospital buffer therapy in heart arrest] Dybvik T, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10;116(27):3212-4 (Eng. Abstr.) **(Nor)**

ENZYMOLOGY

Cerebrospinal fluid creatine kinase BB isoenzyme activity and neurologic prognosis after cardiac arrest. Tirschwell DL, et al. **Neurology** 1997 Feb;48(2):352-7

Cardiac arrest induces decrease of nitric oxide synthase activity and increase of free radical generation in rat brain regions. Gulyaeva NV, et al. **Neurosci Lett** 1996 Dec 20; 220(3):147-50

EPIDEMIOLOGY

An association between snowfall and ED presentation of cardiac arrest. Spitalnic SJ, et al. **Am J Emerg Med** 1996 Oct;14(6):572-3

Caffeine intake in relation to the risk of primary cardiac arrest. Weinmann S, et al. **Epidemiology** 1997 Sep; 8(5):505-8

Out-of-hospital cardiac arrests of non-cardiac origin. Epidemiology and outcome [see comments] Kuisma M, et al. **Eur Heart J** 1997 Jul;18(7):1122-8. Comment in: Eur Heart J 1997 Jul;18(7):1047-9.

The J-curve interpreted. An alternative explanation of the results [editorial; comment] Sekeres MA, et al. **J Gen Intern Med** 1996 Jun;11(6):379-80. Comment on: J Gen Intern Med 1996 Jun;11(6):350-6.

Diastolic blood pressure and the risk of primary cardiac arrest among pharmacologically treated hypertensive patients [see comments] Siscovick DS, et al. **J Gen Intern Med** 1996 Jun;11(6):350-6. Comment in: J Gen Intern Med 1996 Jun;11(6):379-80.

Out-of-hospital cardiac arrest. Evaluation of one year of activity in Saint-Etienne's emergency medical system using the Utstein style. Giraud F, et al. **Resuscitation** 1996 Nov; 33(1):19-27

Collection of uniform cardiac arrest data by ambulance services in the UK [letter] Goodacre S, et al. **Resuscitation** 1997 Aug;35(1):90

ETIOLOGY

Ventricular fibrillation with background pacing masquerading as pulseless electrical activity [letter] Sabin N. **Acad Emerg Med** 1996 Jun;3(6):645-6

Survival following blunt chest impact-induced cardiac arrest during sports activities in young athletes. Maron BJ, et al. **Am J Cardiol** 1997 Mar 15;79(6):840-1

Mechanisms of sudden death and autopsy findings in patients with Arnold-Chiari malformation and ventriculoatrial catheters. Byard RW. **Am J Forensic Med Pathol** 1996 Sep; 17(3):260-3

Survival after trauma pneumonectomy: the pathophysiologic balance of shock resuscitation with right heart failure. Baumgartner F, et al. **Am Surg** 1996 Nov;62(11):967-72

Asystole from tetanic stimulation of the accessory nerve. Scott PV. **Anaesthesia** 1996 Dec;51(12):1148-50

Cardiac arrest after mesenteric manipulation in a patient undergoing abdominal surgery. Hayashi R, et al. **Anesth Analg** 1997 Jun;84(6):1382-3

Cardiac arrest during segmental thoracic epidural anesthesia. Chan KK, et al. **Anesthesiology** 1997 Feb;86(2):503-5

Asystole during temporomandibular joint arthrotomy. Morey TE, et al. **Anesthesiology** 1996 Dec;85(6):1488-91

Asystole following laryngoscopy and endotracheal intubation: a case report. Cheong KF, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):283-5

Cardiac arrest from the use of diathermy during total hip arthroplasty in a patient with an external pacemaker.

Andrade AJ, et al. **Ann R Coll Surg Engl** 1997 Jan; 79(1):69–70

Cardiac arrest after caesarean section under subarachnoid block [letter; comment] Gambling DR. **Br J Anaesth** 1997 Jan;78(1):109–10. Comment on: Br J Anaesth 1996 Aug;77(2):274–6.

Cardiac arrest after caesarean section [letter; comment] Gilbert MP, et al. **Br J Anaesth** 1997 Feb;78(2):230. Comment on: Br J Anaesth 1996 Aug;77(2):274–6.

Cardiac arrest after Caesarean section under subarachnoid block [see comments] Scull TJ, et al. **Br J Anaesth** 1996 Aug;77(2):274–6. Comment in: Br J Anaesth 1997 Jan;78(1):109. Comment in: Br J Anaesth 1997 Jan;78(1):109–10. Comment in: Br J Anaesth 1997 Jan;78(1):110. Comment in: Br J Anaesth 1997 Feb;78(2):230.

Cardiac arrest after caesarean section under subarachnoid block [letter; comment] Trotter C, et al. **Br J Anaesth** 1997 Jan;78(1):109. Comment on: Br J Anaesth 1996 Aug;77(2):274–6.

Cardiac arrest during removal of a pulmonary artery catheter [see comments] Nakayama M, et al. **Can J Anaesth** 1996 Sep;43(9):972–4. Comment in: Can J Anaesth 1997 Jun;44(6):677–8.

Cardiovascular collapse after femoral prosthesis surgery for acute hip fracture. Pietak S, et al. **Can J Anaesth** 1997 Feb; 44(2):198–201

Vasospasm in smooth coronary arteries as a cause of asystole and syncope. Unverdorben M, et al.
Cathet Cardiovasc Diagn 1997 Aug;41(4):430–4

Survivors of out-of-hospital cardiac arrest with apparently normal heart. Need for definition and standardized clinical evaluation. Consensus Statement of the Joint Steering Committees of the Unexplained Cardiac Arrest Registry of Europe and of the Idiopathic Ventricular Fibrillation Registry of the United States. **Circulation** 1997 Jan 7; 95(1):265–72 (100 ref.)

Predictors of arrhythmic death and cardiac arrest in the ESVEM trial. Electrophysiologic Study Versus Electromagnetic Monitoring [see comments] Caruso AC, et al. **Circulation** 1997 Sep 16;96(6):1888–92. Comment in: Circulation 1997 Sep 16;96(6):1713–6.

Exercise-induced syncope and Holter-documented asystole in an endurance runner with moderate aortic stenosis. Shapira Y, et al. **Clin Cardiol** 1996 Jan;19(1):71–3

Hyperkalemic cardiac arrest during anesthesia in infants and children with occult myopathies. Larach MG, et al.
Clin Pediatr (Phila) 1997 Jan;36(1):9–16

Non-cardiac origin of out-of-hospital cardiac arrests: do we underestimate their frequency and prognosis? [editorial; comment] Herlitz J, et al. **Eur Heart J** 1997 Jul; 18(7):1047–9. Comment on: Eur Heart J 1997 Jul;18(7):1122–8.

Prolonged asystole induced by head up tilt test. Report of four cases and brief review of the prognostic significance and medical management. Pentousis D, et al. **Heart** 1997 Mar;77(3):273–5

Myocardial bridging in a survivor of sudden cardiac near-death: role of intracoronary doppler flow measurements and angiography during dobutamine stress in the clinical evaluation. Tio RA, et al. **Heart** 1997 Mar; 77(3):280–2

Delayed unexplained capture failure [letter] Gupta A, et al.
Indian Heart J 1996 Jul–Aug;48(4):429

Survival following pre-hospital arrest with on-scene thoracotomy for a stabbed heart. Keogh SP, et al.
Injury 1996 Sep;27(7):525–7

Cardiac arrest following holiday heart syndrome. Fuenmayor AJ, et al. **Int J Cardiol** 1997 Mar;59(1):101–3

"Every defect is a treasure." Quality problems that result in adverse outcomes provide opportunities for quality improvement. **Int J Qual Health Care** 1997 Apr;9(2):149–50

Pneumococcal pericarditis presenting as an out of hospital cardiopulmonary arrest. Wass AR, et al.
J Accid Emerg Med 1997 Jul;14(4):261–3

Diagnostic accuracy of transesophageal echocardiography during cardiopulmonary resuscitation. van der Wouw PA, et al. **J Am Coll Cardiol** 1997 Sep;30(3):780–3

Bezold-Jarisch-like phenomenon induced by radiofrequency ablation of a left posteroseptal accessory pathway via the coronary sinus. Schläpfer J, et al.
J Cardiovasc Electrophysiol 1996 May;7(5):445–9

Radiofrequency ablation-induced asystole during transaortic approach for a left anterolateral accessory pathway: a Bezold-Jarisch-like phenomenon. Tsai CF, et al.
J Cardiovasc Electrophysiol 1997 Jun;8(6):694–9

Cardiac arrest on the day following surgery in children with unrecognized rhabdomyolysis. Warner LO, et al.
J Clin Anesth 1997 Sep;9(6):501–6

A 4-yr-old girl with cardiac arrest after a week of flulike symptoms. Brown DF, et al. **J Emerg Med** 1997 Mar–Apr; 15(2):231–4

Current concepts in electrical defibrillation. Truong JH, et al. **J Emerg Med** 1997 May–Jun;15(3):331–8 (68 ref.)

Successful implantation of transvenous automatic implantable cardioverter defibrillator (AICD): the first case report in Thailand. Bhuripanyo K, et al. **J Med Assoc Thai** 1996 Aug;79(8):536–40

Asystole after inadvertent intubation of the orbit. Green JG, et al. **J Oral Maxillofac Surg** 1997 Aug;55(8):856–9 (43 ref.)

Cardiac arrest in an extremely low birth weight infant: complication of percutaneous central venous catheter hyperalimentation. Sasidharan P, et al. **J Perinatol** 1996 Mar–Apr;16(2 Pt 1):123–6

Use of head-up tilt testing to determine a possible cause of unexpected cardiac asystole during epidural anesthesia. Takase B, et al. **Jpn Circ J** 1997 Jun;61(6):525–30

Bradycardia and asystole induced by partial seizures: a case report and literature review. Devinsky O, et al.
Neurology 1997 Jun;48(6):1712–4 (10 ref.)

Sudden death as a presenting symptom of hypertrophic cardiomyopathy: treatment with an implantable cardioverter defibrillator. Talard P, et al.
Pacing Clin Electrophysiol 1996 Aug;19(8):1264–7

Paediatric cardiac arrest during Hickman line insertion. Bass SP, et al. **Paediatr Anaesth** 1997;7(1):83–6

Anesthetic regimen effects on a pediatric porcine model of asphyxial arrest. Jasani MS, et al. **Resuscitation** 1997 Aug; 35(1):69–75

Asphyxiation versus ventricular fibrillation cardiac arrest in dogs. Differences in cerebral resuscitation effects--a preliminary study. Vaagenes P, et al. **Resuscitation** 1997 Aug;35(1):41–52

Autonomic hyperreflexia associated with recurrent cardiac arrest: case report. Colachis SC 3rd, et al. **Spinal Cord** 1997 Apr;35(4):256–7

[Cardiac arrest during transurethral resection of the prostate] Chen CC, et al. **Acta Anaesthesiol Sin** 1996 Mar;34(1):47–52 (Eng. Abstr.) **(Chi)**

[Complete neurologic recovery after prolonged cardiac arrest caused by refractory ventricular fibrillation. Clinical case] Giannoni S, et al. **Minerva Anestesiol** 1996 Sep;62(9):307–11 (Eng. Abstr.) **(Ita)**

[Sudden death as the presenting form of an infectious pathology in the emergency service letter)] García-Forcada A, et al. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):515 **(Spa)**

[Bradycardia and asystolia secondary to epileptic crisis. Report of a case] Moreno R, et al. **Rev Esp Cardiol** 1996 Aug;49(8):612–4 (Eng. Abstr.) **(Spa)**

METABOLISM

Controlled reperfusion of cardiac grafts from non-heart-beating donors. Cope JT, et al.
Ann Thorac Surg 1996 Nov;62(5):1418–23

Hypertonic-hyperosmotic solution modifies myoglobin levels in early reperfusion after ischemic cardiac arrest. Experimental model. Careaga G, et al. **Arch Med Res** 1997 Summer;28(2):223–7

Regulation of beta 2-adrenergic receptors on mononuclear leukocytes in patients with acute ischemic heart disease. Prengel AW, et al. **Crit Care Med** 1997 Apr;25(4):646–51

Systemic and cerebral oxygen extraction after human cardiac arrest. Müllner M, et al. **Eur J Emerg Med** 1996 Mar; 3(1):19–24

When does the lung die? Kfc, cell viability, and adenine nucleotide changes in the circulation-arrested rat lung. Jones DR, et al. **J Appl Physiol** 1997 Jul;83(1):247–52

Sodium alterations in isolated rat heart during cardioplegic arrest. Schepkin VD, et al. **J Appl Physiol** 1996 Dec; 81(6):2696–702

Initial end-tidal CO2 is markedly elevated during cardiopulmonary resuscitation after asphyxial cardiac arrest. Berg RA, et al. **Pediatr Emerg Care** 1996 Aug; 12(4):245–8

MORTALITY

Population density, automated external defibrillator use, and survival in rural cardiac arrest. Stapczynski JS, et al.
Acad Emerg Med 1997 Jun;4(6):552–8

In-hospital resuscitation among the elderly: substantial survival to hospital discharge. Varon J, et al.
Am J Emerg Med 1996 Mar;14(2):130–2

Cardiac arrest witnessed by prehospital personnel: intersystem variation in initial rhythm as a basis for a proposed extension of the Utstein recommendations [see comments] Gallagher EJ, et al. **Ann Emerg Med** 1997 Jul; 30(1):76–81. Comment in: Ann Emerg Med 1997 Jul;30(1):82–3.

Unwitnessed out-of-hospital cardiac arrest: is resuscitation worthwhile? Kuisma M, et al. **Ann Emerg Med** 1997 Jul; 30(1):69–75

EMS-witnessed arrest and the evaluation of the effectiveness of care [editorial; comment] Maio RF. **Ann Emerg Med** 1997 Jul;30(1):82–3. Comment on: Ann Emerg Med 1997 Jul;30(1):76–81.

Mandatory CPR training for students may improve cardiac-arrest survival rate, MDs say. Lyttle J.
Can Med Assoc J 1996 Oct 15;155(8):1172–4

Cardiopulmonary resuscitation: what cost to cheat death? Lee KH, et al. **Crit Care Med** 1996 Dec;24(12):2046–52 (51 ref.)

Prehospital cardiac arrest in Leicestershire: targeting areas for improvement [see comments] Hassan TB, et al.
J Accid Emerg Med 1996 Jul;13(4):251–5. Comment in: J Accid Emerg Med 1997 Mar;14(2):131–2.

Cardiopulmonary arrest in general wards: a retrospective study of referral patterns to an intensive care facility and their influence on outcome. Premachandran S, et al.
J Accid Emerg Med 1997 Jan;14(1):26–9

Defining "dead on arrival": impact on a level I trauma center. Pasquale MD, et al. **J Trauma** 1996 Oct;41(4):726–30

Failure of three decision rules to predict the outcome of in-hospital cardiopulmonary resuscitation. Ebell MH, et al. **Med Decis Making** 1997 Apr–Jun;17(2):171–7

End-tidal carbon dioxide and outcome of out-of-hospital cardiac arrest. Levine RL, et al. **N Engl J Med** 1997 Jul 31;337(5):301–6

Outcome of out-of-hospital cardiac or respiratory arrest in children [see comments] Schindler MB, et al.
N Engl J Med 1996 Nov 14;335(20):1473–9. Comment in: N Engl J Med 1997 May 1;336(18):1325; discussion 1325–6.

Predicting survival, in-hospital cardiac arrests: resuscitation survival variables and training effectiveness. Cooper S, et al. **Resuscitation** 1997 Aug;35(1):17–22

One-year survival after out-of-hospital cardiac arrest in Bonn city: outcome report according to the 'Utstein style'. Fischer M, et al. **Resuscitation** 1997 Jan;33(3):233–43

Prediction of survival after out-of-hospital cardiac arrest: results of a community-based study in Vienna. Gaul GB, et al. **Resuscitation** 1996 Oct;32(3):169–76

Continuation of CPR on admission to emergency department after out-of-hospital cardiac arrest. Occurrence, characteristics and outcome [see comments] Herlitz J, et al. **Resuscitation** 1997 Jan;33(3):223–31. Comment in: Resuscitation 1997 Jan;33(3):197–8.

Predicting survival from out-of-hospital cardiac arrest: a multivariate analysis. Weston CF, et al. **Resuscitation** 1997 Feb;34(1):27–34

[Long-term survival after extra-hospital cardiac arrest] Guérot E, et al. **Presse Med** 1996 Oct 19;25(31):1430–4 (36 ref.) (Eng. Abstr.) **(Fre)**

NURSING

Nurses' accounts of cardiopulmonary resuscitation. Page S, et al. **J Adv Nurs** 1996 Aug;24(2):317–25

PATHOLOGY

Neuropathology of normothermic circulatory arrest in newborn dogs. Towfighi J, et al.
Acta Neuropathol (Berl) 1997 May;93(5):485–93

PHYSIOPATHOLOGY

Cerebral autoregulation is impaired in patients resuscitated after cardiac arrest. Nishizawa H, et al.
Acta Anaesthesiol Scand 1996 Oct;40(9):1149–53

Lidocaine pharmacokinetics after cardiac arrest and external cardiopulmonary resuscitation. Hendrie J, et al.
Am J Cardiol 1996 Dec 1;78(11):1322–3

Sodium bicarbonate in cardiac arrest: a reappraisal. Vukmir RB, et al. **Am J Emerg Med** 1996 Mar;14(2):192–206 (184 ref.)

Hyperthermia-induced cardiac arrest in monkeys: limited efficacy of standard CPR. Eshel G, et al.
Aviat Space Environ Med 1997 May;68(5):415–20

Sinus node arrest and asystole from vaso-vagal phenomena during lower body negative pressure in a healthy pilot. Kopka L, et al. **Aviat Space Environ Med** 1996 Jun; 67(6):572–5

Periodic intermittent electromechanical dissociation: hemodynamic correlate of a malfunctioning mechanical prosthetic valve. Shah D, et al.
Cathet Cardiovasc Diagn 1996 Aug;38(4):377–8

Autonomic responses to orthostatic stress in head-up tilt testing: relationship to test-induced prolonged asystole. Takase B, et al. **Clin Cardiol** 1997 Mar;20(3):233–8

Extramyocardial acidosis impairs cardiac resuscitability in isolated, perfused, rat hearts. Morimoto Y, et al.
Crit Care Med 1996 Oct;24(10):1719–23

Cerebral vasoconstriction in comatose patients resuscitated from a cardiac arrest? Buunk G, et al.
Intensive Care Med 1996 Nov;22(11):1191–6

When does the lung die? Kfc, cell viability, and adenine nucleotide changes in the circulation-arrested rat lung. Jones DR, et al. **J Appl Physiol** 1997 Jul;83(1):247–52

Blood glucose concentration after cardiopulmonary resuscitation influences functional neurological recovery in human cardiac arrest survivors. Müllner M, et al.
J Cereb Blood Flow Metab 1997 Apr;17(4):430–6

Early prognosis in coma after cardiac arrest: a prospective clinical, electrophysiological, and biochemical study of 60 patients. Bassetti C, et al.
J Neurol Neurosurg Psychiatry 1996 Dec;61(6):610–5

Management and health status in the first year after out-of-hospital cardiac arrest. Batin PD, et al.
J R Coll Physicians Lond 1997 May–Jun;31(3):280–6

Hemodynamic effects of aortic occlusion during hemorrhagic shock and cardiac arrest. Kralovich KA, et al.
J Trauma 1997 Jun;42(6):1023–8

Stroke and cardiac arrest [letter; comment] Jaster JH, et al.
Neurology 1996 Nov;47(5):1357. Comment on: Neurology 1996 Jan;46(1):267.

Stimulus-evoked sinus arrest in severe Guillain-Barré syndrome: a case report. Minahan RE Jr, et al.
Neurology 1996 Nov;47(5):1239–42

Cerebral oxygenation measured by near infrared spectroscopy during cardiopulmonary bypass and deep hypothermic circulatory arrest in piglets. Nomura F, et al. **Pediatr Res** 1996 Dec;40(6):790–6

Prolonged active glottic closure after barbiturate-induced respiratory arrest in lambs. Praud JP, et al.
Respir Physiol 1996 Jul;104(2–3):221–9

Effects of manual high-impulse CPR on myocardial perfusion during cardiac arrest in pigs. Behringer W, et

al. **Resuscitation** 1997 Jun;34(3):271–9
Ventricular fibrillation in a swine model of acute pediatric asphyxial cardiac arrest. Berg RA, et al. **Resuscitation** 1996 Dec;33(2):147–53
Haemodynamic effects of descending aortic occlusion during cardiopulmonary resuscitation. Deakin CD, et al. **Resuscitation** 1996 Nov;33(1):49–52
Structural basis of information capacity changes of sensory–motor cerebral cortex of rat brain during post–resuscitation period. Semchenko VV, et al. **Resuscitation** 1996 Apr;31(2):151–8
Acute thyroid hormone administration increases systemic oxygen delivery and consumption immediately following resuscitation from cardiac arrest without changes in thyroid–stimulating hormone. Zwemer CF, et al. **Resuscitation** 1997 Jan;33(3):271–80
Cerebrovascular reactivity in comatose patients resuscitated from a cardiac arrest. Buunk G, et al. **Stroke** 1997 Aug; 28(8):1569–73
[Differential diagnosis of circulatory failure in hypothermic avalanche victims: retrospective analysis of 32 avalanche accidents] Locher T, et al. **Schweiz Rundsch Med Prax** 1996 Oct 8;85(41):1275–82 (Eng. Abstr.) **(Ger)**
[Hibernating peptides, neokyotorphin and kyotorphin, have positive effect on cardio–pulmonary and cerebral resuscitation in rats after a 12–min heart arrest] Kharchenko IB, et al. **Biull Eksp Biol Med** 1997 May;123(5):517–20 **(Rus)**

PREVENTION & CONTROL

Recommendations for qualification of centres implanting and following defibrillators. Study Group on Qualification of ICD Implanting Centers of the Working Groups on Arrhythmias and Cardiac Pacing of the European Society of Cardiology. Lévy S, et al. **Eur Heart J** 1996 Dec; 17(12):1796–9 (13 ref.)
[The study of the cardiomodulating effect of different low molecular weight peptides] Grechko AT, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):43–4 **(Rus)**

PSYCHOLOGY

The impact of the implantable cardioverter defibrillator on quality of life. Gallagher RD, et al. **Am J Crit Care** 1997 Jan;6(1):16–24 (57 ref.)
Ischemia–induced anxiety following cardiac arrest in the rat. Dhooper A, et al. **Behav Brain Res** 1997 Mar;84(1–2):57–62
Additive impact of in–hospital cardiac arrest on the functioning of children with heart disease. Bloom AA, et al. **Pediatrics** 1997 Mar;99(3):390–8

RADIOGRAPHY

Immediate coronary angiography in survivors of out–of–hospital cardiac arrest. Spaulding CM, et al. **N Engl J Med** 1997 Jun 5;336(23):1629–33

REHABILITATION

Blood–brain barrier methionine transport after resuscitation from 10–min cardiac arrest in rats. Kapuściński A, et al. **Folia Neuropathol** 1996;34(2):72–5

SURGERY

Intravenous phenylephrine preconditioning of cardiac grafts from non–heart–beating donors. Cope JT, et al. **Ann Thorac Surg** 1997 Jun;63(6):1664–8
[Emergency myectomy in a patient with hypertrophic obstructive cardiomyopathy complicated with left heart failure and cardiac arrest] Abe H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1896–901 (Eng. Abstr.) **(Jpn)**
[Implantable cardioverter defibrillator. New therapeutic option to malignant ventricular arrhythmias] Halperin C, et al. **Arq Bras Cardiol** 1996 Mar;66 Suppl 1:59–62 **(Por)**

THERAPY

Defibrillation and public expectation [editorial] Eisenberg MS. **Acad Emerg Med** 1997 Jun;4(6):535–6
Who gets bystander cardiopulmonary resuscitation in a witnessed arrest? Jackson RE, et al. **Acad Emerg Med** 1997 Jun;4(6):540–4
If one receptor doesn't do it, try another [editorial] Paradis NA. **Acad Emerg Med** 1996 Feb;3(2):97–9
Paediatric cardiac arrest and resuscitation provided by physician–staffed emergency care units. Suominen P, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):260–5
The effect of semi–automatic external defibrillation by emergency medical technicians on survival after out–of–hospital cardiac arrest: an observational study in urban and rural areas in Belgium. Calle PA, et al. **Acta Clin Belg** 1997;52(2):72–83
Truncated exponential versus damped sinusoidal waveform shocks for transthoracic defibrillation. Behr JC, et al. **Am J Cardiol** 1996 Dec 1;78(11):1242–5
In–hospital resuscitation among the elderly: substantial survival to hospital discharge. Varon J, et al. **Am J Emerg Med** 1996 Mar;14(2):130–2
Efficacy of cardiopulmonary resuscitation using intratracheal insufflation. Brochard L, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1323–9
Cardiopulmonary resuscitation: a retrospective review. Denton R, et al. **Anaesthesia** 1997 Apr;52(4):324–7
Effect of advanced cardiac life support training on resuscitation efforts and survival in a rural hospital. Camp BN, et al. **Ann Emerg Med** 1997 Apr;29(4):529–33
Detection of traumatic complications of cardiopulmonary resuscitation by ultrasound. Corbett SW, et al. **Ann Emerg Med** 1997 Mar;29(3):317–21; discussion 322
Effects of simulated mouth–to–mouth ventilation during external cardiac compression or active compression–decompression in a swine model of witnessed cardiac arrest. Engoren M, et al. **Ann Emerg Med** 1997 May;29(5):607–15
Real–time ultrasound–guided femoral vein catheterization during cardiopulmonary resuscitation [see comments] Hilty WM, et al. **Ann Emerg Med** 1997 Mar;29(3):331–6; discussion 337. Comment in: ACP J Club 1997 Jul–Aug;127(1):15.
Quality–of–life and formal functional testing of survivors of out–of–hospital cardiac arrest correlates poorly with traditional neurologic outcome scales. Hsu JW, et al. **Ann Emerg Med** 1996 Dec;28(6):597–605
Children and adults in cardiopulmonary arrest: are advanced life support guidelines followed in the prehospital setting? [see comments] Kumar VR, et al. **Ann Emerg Med** 1997 Jun;29(6):743–7. Comment in: Ann Emerg Med 1997 Jun;29(6):776–9.
Selective aortic arch perfusion during cardiac arrest: enhanced resuscitation using oxygenated perflubron emulsion, with and without aortic arch epinephrine. Manning JE, et al. **Ann Emerg Med** 1997 May;29(5):580–7
Intraosseous infusion in an emergency situation: a case report. Nafiu OO, et al. **Ann Trop Paediatr** 1997 Jun;17(2):175–7
Paediatricians' knowledge of cardiac arrest guidelines [letter; comment] Ward SJ. **Arch Dis Child** 1996 Aug;75(2):171. Comment on: Arch Dis Child 1996 Jan;74(1):47–9.
Analysis of clinical trends in a program of emergent ECLS for cardiovascular collapse. Willms DC, et al. **ASAIO J** 1997 Jan–Feb;43(1):65–8
Cardiopulmonary arrest in pregnancy: successful resuscitation of mother and infant following immediate caesarean section in labour ward. Parker J, et al. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):207–10
First, do no harm: the role of defibrillators and advanced medical care in commercial aviation [editorial] McKenas DK. **Aviat Space Environ Med** 1997 May;68(5):365–7
Standardising crash call numbers. A minor issue compared with need to change concept of cardiac arrest team [letter; comment] Findlay GP, et al. **BMJ** 1996 Nov 30; 313(7069):1404. Comment on: BMJ 1996 Aug 17;313(7054):429.
Survival of patients initially resuscitated from out of hospital cardiac arrest. Study did not include patients admitted for intensive care [letter; comment] Hatcher I. **BMJ** 1996 Oct 12;313(7062):941. Comment on: BMJ 1996 Jun 29;312(7047):1633–7.
Standardising crash call numbers. A recommendation already exists [letter; comment] Ward M. **BMJ** 1996 Nov 30; 313(7069):1404. Comment on: BMJ 1996 Aug 17;313(7054):429.
Resuscitation by general practitioners [editorial] [see comments] Colquhoun MC. **Br J Gen Pract** 1997 Jan; 47(414):5–6. Comment in: Br J Gen Pract 1997 Jun;47(419):403–4.
A questionnaire survey of resuscitation equipment carried by general practitioners and their initial management of ventricular fibrillation [see comments] West RJ, et al. **Br J Gen Pract** 1997 Jan;47(414):37–40. Comment in: Br J Gen Pract 1997 Jun;47(419):403–4.
In–hospital resuscitation: a statement for healthcare professionals from the American Heart Association Emergency Cardiac Care Committee and the Advanced Cardiac Life Support, Basic Life Support, Pediatric Resuscitation, and Program Administration Subcommittees. Cummins RO, et al. **Circulation** 1997 Apr 15;95(8):2211–2
The universal advanced life support algorithm: an advisory statement from the Advanced Life Support Working Group of the International Liaison Committee on Resuscitation. Kloeck W, et al. **Circulation** 1997 Apr 15; 95(8):2180–2
Early defibrillation: an advisory statement from the Advanced Life Support Working Group of the International Liaison Committee on Resuscitation. Kloeck W, et al. **Circulation** 1997 Apr 15;95(8):2183–4
Special resuscitation situations: an advisory statement from the International Liaison Committee on Resuscitation. Kloeck W, et al. **Circulation** 1997 Apr 15;95(8):2196–210
Long–term follow–up of cardioverter–defibrillator implanted under conscious sedation in prepectoral subfascial position. Pacifico A, et al. **Circulation** 1997 Feb 18;95(4):946–50
Benefit of active compression–decompression cardiopulmonary resuscitation as a prehospital advanced cardiac life support. A randomized multicenter study. Plaisance P, et al. **Circulation** 1997 Feb 18;95(4):955–61
Phased chest and abdominal compression–decompression. A new option for cardiopulmonary resuscitation. Tang W, et al. **Circulation** 1997 Mar 4;95(5):1335–40
A randomized, blinded trial of high–dose epinephrine versus standard–dose epinephrine in a swine model of pediatric asphyxial cardiac arrest. Berg RA, et al. **Crit Care Med** 1996 Oct;24(10):1695–700
Cardiopulmonary resuscitation: what cost to cheat death? Lee KH, et al. **Crit Care Med** 1996 Dec;24(12):2046–52 (51 ref.)
Cardiovascular function during the postresuscitation phase after cardiac arrest in pigs: a comparison of epinephrine versus vasopressin. Prengel AW, et al. **Crit Care Med** 1996 Dec;24(12):2014–9
Effects of buffer agents on postresuscitation myocardial dysfunction. Sun S, et al. **Crit Care Med** 1996 Dec; 24(12):2035–41
Gender differences in 24–hour outcome following resuscitation after 9 minutes of cardiac arrest in dogs. Zwemer CF, et al. **Crit Care Med** 1997 Feb;25(2):330–8
Cardiopulmonary resuscitation: a promise as yet largely unfulfilled. Weil MH, et al. **Dis Mon** 1997 Jul;43(7):429–501 (162 ref.)
Outcome of cardiopulmonary resuscitation in a Portuguese university hospital. Araújo R, et al. **Eur J Emerg Med** 1997 Jun;4(2):81–6
What did we learn from the time registration in the Belgian Cardio–Pulmonary–Cerebral Resuscitation registry? Vanhaute O, et al. **Eur J Emerg Med** 1996 Mar;3(1):25–30
The prognostication of cerebral hypoxia after out–of–hospital cardiac arrest in adults. Berek K, et al. **Eur Neurol** 1997; 37(3):135–45 (136 ref.)
Left intraventricular balloon pump optimization during intractable cardiac arrest. Stamatelopoulos SF, et al. **Int J Artif Organs** 1996 Jul;19(7):422–30
Thrombolysis using plasminogen activator and heparin reduces cerebral no–reflow after resuscitation from cardiac arrest: an experimental study in the cat. Fischer M, et al. **Intensive Care Med** 1996 Nov;22(11):1214–23
Prehospital cardiac arrest in Leicestershire [letter; comment] Cameron MG. **J Accid Emerg Med** 1997 Mar;14(2):131–2 . Comment on: J Accid Emerg Med 1996 Jul;13(4):251–5.
Role of the accident and emergency department in the non–heart–beating donor programme in Leicester. Hassan TB, et al. **J Accid Emerg Med** 1996 Sep;13(5):321–4
Paramedic interventions increase the rate of return of spontaneous circulation in out of hospital cardiac arrests. Mann CJ, et al. **J Accid Emerg Med** 1997 May;14(3):149–50
Effectiveness of ambulance paramedics versus ambulance technicians in managing out of hospital cardiac arrest. Nguyen–Van–Tam JS, et al. **J Accid Emerg Med** 1997 May; 14(3):142–8
Characteristics of patients receiving or foregoing resuscitation at the time of cardiopulmonary arrest. Ghusn HF, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1118–22
Active compression–decompression cardiopulmonary resuscitation does not improve survival in patients with prehospital cardiac arrest in a physician–manned emergency medical system [see comments] Luiz T, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):178–86. Comment in: J Cardiothorac Vasc Anesth 1996 Feb;10(2):175–7.
Current concepts in cardiopulmonary resuscitation. Torres NE, et al. **J Cardiothorac Vasc Anesth** 1997 May; 11(3):391–407 (177 ref.)
Basic life support: controversial and unresolved issues. Hazinski MF. **J Cardiovasc Nurs** 1996 Jul;10(4):1–14 (63 ref.)
The ABCs of teaching advanced cardiac life support. Johantgen MA, et al. **J Cardiovasc Nurs** 1997 Jan; 11(2):68–71
Developing and revising the American Heart Association guidelines for advanced cardiac life support. Kirby AK, et al. **J Cardiovasc Nurs** 1996 Jul;10(4):15–23
A more effective approach to in–hospital defibrillation. Stewart JA. **J Cardiovasc Nurs** 1996 Jul;10(4):37–46 (61 ref.)
Blood glucose concentration after cardiopulmonary resuscitation influences functional neurological recovery in human cardiac arrest survivors. Müllner M, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):430–6
Crisis management training helps young anesthesiologist successfully manage mid–air passenger cardiac arrest [letter] Leith P. **J Clin Monit** 1997 Jan;13(1):69
The association between age of hospitalized patients and the delivery of advanced cardiac life support. Fried TR, et al. **J Gen Intern Med** 1996 May;11(5):257–61
Emergency fields, obtaining intravascular access for cardiopulmonary arrest patients is occasionally difficult and time–consuming [letter] Iwama H, et al. **J Trauma** 1996 Nov;41(5):931–2
Response after out–of–hospital cardiac arrest in the trauma patient should determine aeromedical transport to a trauma center. Margolin DA, et al. **J Trauma** 1996 Oct;41(4):721–5
Rationale and specifications for an automatic cardiac arrest–driven alarm and 911 caller ID (ACADA/911). Miller B. **Med Hypotheses** 1997 May;48(5):449–51
Cardiopulmonary resuscitation in children [letter; comment] Fruchter O. **N Engl J Med** 1997 May 1;336(18):1325; discussion 1325–6. Comment on: N Engl J Med 1996 Nov 14;335(20):1473–9.
Out of hospital cardiac arrest [letter; comment] Ardagh M. **N Z Med J** 1996 Sep 13;109(1029):346. Comment on: N Z Med J 1996 Jun 28;109(1024):240–1.
Management decisions in survivors of cardiac arrest. Smith W, et al. **N Z Med J** 1997 Feb 28;110(1038):45–7 (26 ref.)
Minimizing hypoxic injury during cardiac arrest. Becker LB. **New Horiz** 1997 May;5(2):145–52
Data collection and retrieval to document the outcomes of

cardiopulmonary resuscitation. Cobb LA. **New Horiz** 1997 May;5(2):164–6
Alternatives to conventional chest compression. Halle AA 3rd. **New Horiz** 1997 May;5(2):112–9
Automated external defibrillators—experiences with their use and options for their further development. Niskanen RA. **New Horiz** 1997 May;5(2):137–44
Objective measurements for guiding initiation, sequencing, and discontinuation of life-support intervention. Paradis NA. **New Horiz** 1997 May;5(2):158–63
Research on CPR: reordering priorities. Weil MH. **New Horiz** 1997 May;5(2):106–11
Optimal access to- and response by-public and voluntary services, including the role of bystanders and family members, in cardiopulmonary resuscitation. White RD. **New Horiz** 1997 May;5(2):153–7 (29 ref.)
Does the initial presentation of patients with implantable defibrillator influence the outcome? Menz V, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 2):173–6
Initial end-tidal CO2 is markedly elevated during cardiopulmonary resuscitation after asphyxial cardiac arrest. Berg RA, et al. **Pediatr Emerg Care** 1996 Aug; 12(4):245–8
Intraosseous needle: use of the miniature C-arm imaging device to confirm placement. Garcia CT, et al. **Pediatr Emerg Care** 1996 Apr;12(2):94–7
An intelligent learning environment for advanced cardiac life support. Eliot CR, et al. **Proc AMIA Annu Fall Symp** 1996;:7–11
The effect of psychosocial nursing intervention on the mood state of patients with implantable cardioverter defibrillators and their caregivers. Sneed NV, et al. **Prog Cardiovasc Nurs** 1997 Spring;12(2):4–14
Bystander-initiated cardiopulmonary resuscitation out-of-hospital. A first description of the bystanders and their experiences. Axelsson A, et al. **Resuscitation** 1996 Nov;33(1):3–11
Effects of manual high-impulse CPR on myocardial perfusion during cardiac arrest in pigs. Behringer W, et al. **Resuscitation** 1997 Jun;34(3):271–9
Comparison of the reluctance of house staff of metropolitan and suburban hospitals to perform mouth-to-mouth resuscitation. Brenner B, et al. **Resuscitation** 1996 Jul; 32(1):5–12
Predicting survival, in-hospital cardiac arrests: resuscitation survival variables and training effectiveness. Cooper S, et al. **Resuscitation** 1997 Aug;35(1):17–22
Haemodynamic effects of descending aortic occlusion during cardiopulmonary resuscitation. Deakin CD, et al. **Resuscitation** 1996 Nov;33(1):49–52
Ventricular standstill and cardiac percussion [see comments] Dowdle JR. **Resuscitation** 1996 Jul;32(1):31–2. Comment in: Resuscitation 1996 Jul;32(1):3–4.
Automated external versus blind manual defibrillation by untrained lay rescuers. Fromm RE Jr, et al. **Resuscitation** 1997 Jan;33(3):219–21
Resuscitation from out-of-hospital cardiac arrest: implications for cardiac enzyme estimation. Grubb NR, et al. **Resuscitation** 1996 Nov;33(1):35–41
Continuation of CPR on admission to emergency department after out-of-hospital cardiac arrest. Occurrence, characteristics and outcome [see comments] Herlitz J, et al. **Resuscitation** 1997 Jan;33(3):223–31. Comment in: Resuscitation 1997 Jan;33(3):197–8.
Rhythm changes during resuscitation from ventricular fibrillation in relation to delay until defibrillation, number of shocks delivered and survival. Herlitz J, et al. **Resuscitation** 1997 Feb;34(1):17–22
Renal function following cardiac arrest and resuscitation in the canine. Izzat NN, et al. **Resuscitation** 1996 Oct; 32(3):251–61
Improving outcome from cardiac arrest in the hospital with a reorganized and strengthened chain of survival: an American view [editorial] Kaye W, et al. **Resuscitation** 1996 Jun;31(3):181–6
Towards early defibrillation—a nurse training programme in the use of automated external defibrillators [letter; comment] Klein A. **Resuscitation** 1996 Apr;31(2):173–4. Comment on: Resuscitation 1995 Dec;30(3):231–35.
Percutaneous venoarterial extracorporeal membrane oxygenation for emergency mechanical circulatory support. Mair P, et al. **Resuscitation** 1996 Nov;33(1):29–34
The decision to terminate resuscitative efforts: results of a questionnaire. Mohr M, et al. **Resuscitation** 1997 Feb; 34(1):51–5
Efficacy vs. effectiveness: the case of active compression-decompression (ACD) CPR [editorial] Ornato JP. **Resuscitation** 1997 Feb;34(1):3–5 (27 ref.)
ACD versus standard CPR in a prehospital setting. Panzer W, et al. **Resuscitation** 1996 Dec;33(2):117–24
Paediatric chain of survival [letter] Rochester S, et al. **Resuscitation** 1997 Aug;35(1):88–9
Ventricular standstill and percussion [editorial; comment] Sandoe E. **Resuscitation** 1996 Jul;32(1):3–4. Comment on: Resuscitation 1996 Jul;32(1):31–2.
Resuscitation from cardiac arrest in cats: influence of epinephrine dosage on brain recovery. Schmitz B, et al. **Resuscitation** 1995 Dec;30(3):251–62
Predicting in-hospital mortality during cardiopulmonary resuscitation. Schultz SC, et al. **Resuscitation** 1996 Nov; 33(1):13–7
Magnesium sulfate solution dramatically improves immediate recovery of rats from hypoxia. Siemkowicz E. **Resuscitation** 1997 Aug;35(1):53–9
The effect of experience of on-site physicians on survival from prehospital cardiac arrest [see comments] Silfvast T, et al. **Resuscitation** 1996 Apr;31(2):101–5. Comment in: Resuscitation 1996 Dec;33(2):179.
Spectral analysis of ventricular fibrillation and closed-chest cardiopulmonary resuscitation. Strohmenger HU, et al. **Resuscitation** 1996 Dec;33(2):155–61
Quality of mechanical, manual standard and active compression-decompression CPR on the arrest site and during transport in a manikin model. Sunde K, et al. **Resuscitation** 1997 Jun;34(3):235–42
Unexpected return of cardiac action after termination of cardiopulmonary resuscitation. Voelckel W, et al. **Resuscitation** 1996 Jul;32(1):27–9
Statement on public access defibrillation. American Heart Association Taskforce on Automatic External Defibrillation. Weisfeldt ML, et al. **Resuscitation** 1996 Sep; 32(2):125–6
American Heart Association Report on the Public Access Defibrillation Conference, December 8–10, 1994. American Heart Association Taskforce on Automatic External Defibrillation. Weisfeldt ML, et al. **Resuscitation** 1996 Sep; 32(2):127–38 (30 ref.)
Outcome of out-of-hospital cardiorespiratory arrest in south Glamorgan. Weston CF, et al. **Resuscitation** 1997 Jun; 34(3):227–33
Ventricular standstill and cardiac percussion [letter] Weston CF. **Resuscitation** 1997 Aug;35(1):88
Predicting survival from out-of-hospital cardiac arrest: a multivariate analysis. Weston CF, et al. **Resuscitation** 1997 Feb;34(1):27–34
Acute administration of T3 or rT3 failed to improve outcome following resuscitation from cardiac arrest in dogs. Whitesall SE, et al. **Resuscitation** 1996 Nov;33(1):53–62
The ventilation/compression ratio influences the effectiveness of two rescuer advanced cardiac life support on a manikin. Wik L, et al. **Resuscitation** 1996 Apr; 31(2):113–9
A comparison of prolonged manual and mechanical external chest compression after cardiac arrest in dogs. Wik L, et al. **Resuscitation** 1996 Oct;32(3):241–50
Outcome of cardiopulmonary resuscitation following open heart surgery. Wahba A, et al. **Scand Cardiovasc J** 1997; 31(3):147–9
Cerebrovascular reactivity in comatose patients resuscitated from a cardiac arrest. Buunk G, et al. **Stroke** 1997 Aug; 28(8):1569–73
Permanent pacing for asystole of the donor heart after heterotopic heart transplantation. Kalife G, et al. **Tex Heart Inst J** 1997;24(1):64–7
[Cardiopulmonary resuscitation in cancer patients: experience of an intensive care unit in a cancer center] Sculier JP, et al. **Bull Cancer** 1996 Aug;83(8):677–81 (Eng. Abstr.) **(Fre)**
[Active compression-decompression resuscitation. Improved survival rate in an emergency medicine system with emergency physician assistance?] Mauer D, et al. **Med Klin** 1997 Jul 15;92(7):381–8 (Eng. Abstr.) **(Ger)**
[Emergency percutaneous cardiopulmonary support for patients with cardiac arrest or severe cardiogenic shock] Matsuwaka R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2006–10 (Eng. Abstr.) **(Jpn)**
[Noninvasive transcutaneous cardiac pacing] Zapolski T, et al. **Wiad Lek** 1996;49(1–6):43–50 (17 ref.) (Eng. Abstr.) **(Pol)**
[National Consensus on Cardiorespiratory Resuscitation] **Arq Bras Cardiol** 1996 Jun;66(6):375–402 **(Por)**
[When should we stop cardiopulmonary resuscitation in patients brought to the emergency room in cardiac arrest without pre-hospital care?] César LA, et al. **Arq Bras Cardiol** 1996 Nov;67(5):339–42 (Eng. Abstr.) **(Por)**
[The potentials for therapy of the postresuscitation process using regulatory peptides after 10 and 15 minutes of heart arrest] Volkov AV, et al. **Anesteziol Reanimatol** 1996 Sep-Oct;(5):67–70 (Eng. Abstr.) **(Rus)**
[Resuscitation of a newborn with cardiorespiratory arrest caused by severe hypothermia] Balaguer Santamaría JA, et al. **An Esp Pediatr** 1996 Dec;45(6):639–41 (Eng. Abstr.) **(Spa)**
[Cardiopulmonary resuscitation in a general hospital] Ochoa Gómez FJ, et al. **An Med Interna** 1996 Jun;13(6):265–8 (Eng. Abstr.) **(Spa)**
[Cardiopulmonary resuscitation in hospitalized patients in conventional units. Prospective study of 356 consecutive cases. Commission for Care of Cardiorespiratory Arrest (see comments)] Fontanals J, et al. **Med Clin (Barc)** 1997 Mar 29;108(12):441–5 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 Mar 29;108(12):455–7. **(Spa)**
[Cardiopulmonary resuscitation admitted to units of conventional hospitalization (editorial; comment)] García-Guasch R, et al. **Med Clin (Barc)** 1997 Mar 29; 108(12):455–7. Comment on: Med Clin (Barc) 1997 Mar 29;108(12):441–5. **(Spa)**
[More effective resuscitation in a special ambulance. Increased survival after cardiac arrest in Gothenburg] Herlitz J, et al. **Lakartidningen** 1996 Nov 27;93(48):4453–6, 4459 **(Swe)**

VETERINARY

Asystole associated with iohexol myelography in a dog. Carroll GL, et al. **Vet Radiol Ultrasound** 1997 Jul-Aug; 38(4):284–7

HEART ARREST, INDUCED

see related
CARDIOPLEGIC SOLUTIONS

Effects of hypothermia and sternal retractors on median nerve somatosensory evoked potentials. Porkkala T, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):843–8
Outcome effects of different protective hypothermia levels during cardiac arrest in rats. Yli-Hankala A, et al. **Acta Anaesthesiol Scand** 1997 Apr;41(4):511–5
Increased pressures in the retrograde blood cardioplegia line: an unusual presentation of cold agglutinins during cardiopulmonary bypass. Fischer GD, et al. **Anesth Analg** 1997 Feb;84(2):454–6
The direct effects of propofol on myocyte contractile function after hypothermic cardioplegic arrest. Hebbar L, et al. **Anesth Analg** 1996 Nov;83(5):949–57
Consequences of electroencephalographic-suppressive doses of propofol in conjunction with deep hypothermic circulatory arrest. Stone JG, et al. **Anesthesiology** 1996 Sep; 85(3):497–501
Nitric-oxide-induced reoxygenation injury in the cyanotic immature heart is prevented by controlling oxygen content during initial reoxygenation. Ihnken K, et al. **Angiology** 1997 Mar;48(3):189–202
Prevention of post-pump myocardial dysfunction by glutathione. Prasad K, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:400–13
Changes in atrial natriuretic factor (ANF) and Ca+2 ATPase mRNA transcriptional activity are markers of myocardial integrity during continuous warm blood cardioplegia (CWBCP) in rats. Remsey ES, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:419–22
Adenosine reduces postbypass transfusion requirements in humans after heart surgery. Mentzer RM Jr, et al. **Ann Surg** 1996 Oct;224(4):523–9; discussion 529–30
Effects of specific sodium/hydrogen exchange inhibitor during cardioplegic arrest. Choy IO, et al. **Ann Thorac Surg** 1997 Jul;64(1):94–9
Retrograde cerebral perfusion is an effective means of neural support during deep hypothermic circulatory arrest [see comments] Coselli JS. **Ann Thorac Surg** 1997 Sep; 64(3):908–12 (29 ref.). Comment in: Ann Thorac Surg 1997 Sep;64(3):913–6.
Protective effects of adenosine on myocyte contractility during cardioplegic arrest. Cox MH, et al. **Ann Thorac Surg** 1997 Apr;63(4):981–7
Myocardial protection and cardiopulmonary bypass in neonates and infants. del Nido PJ. **Ann Thorac Surg** 1997 Sep;64(3):878–9
Beyond hyperkalemia: beta-blocker-induced cardiac arrest for normothermic cardiac operations. Ede M, et al. **Ann Thorac Surg** 1997 Mar;63(3):721–7
Port-access cardiac operations with cardioplegic arrest. Fann JI, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S35–9
Complex thoracic vascular injury repair using deep hypothermia and circulatory arrest. Fulton JO, et al. **Ann Thorac Surg** 1997 Feb;63(2):557–9
Is retrograde cerebral perfusion an effective means of neural support during deep hypothermic circulatory arrest? [comment] Griepp RB, et al. **Ann Thorac Surg** 1997 Sep; 64(3):913–6 (34 ref.). Comment on: Ann Thorac Surg 1997 Sep;64(3):908–12.
Clinical assessment of prolonged myocardial preservation for patients with a severely dilated heart. Hachida M, et al. **Ann Thorac Surg** 1997 Jul;64(1):59–63
Adenosine prevents hyperkalemia-induced calcium loading in cardiac cells: relevance for cardioplegia [see comments] Jovanović A, et al. **Ann Thorac Surg** 1997 Jan;63(1):153–61 . Comment in: Ann Thorac Surg 1997 Aug;64(2):588–9.
Functional and metabolic effects of adenosine in cardioplegia: role of temperature and concentration. Katayama O, et al. **Ann Thorac Surg** 1997 Feb;63(2):449–54; discussion 454–5
Rapid cooling contracture with cold cardioplegia. Lahorra JA, et al. **Ann Thorac Surg** 1997 May;63(5):1353–60
Regional blood flow during pulsatile cardiopulmonary bypass and after circulatory arrest in an infant model. Lodge AJ, et al. **Ann Thorac Surg** 1997 May;63(5):1243–50
Calcitonin gene-related peptide-induced preconditioning improves preservation with cardioplegia. Lu EX, et al. **Ann Thorac Surg** 1996 Dec;62(6):1748–51
Effect of desferrioxamine cardioplegia on ischemia-reperfusion injury in isolated rat heart. Nicholson SC, et al. **Ann Thorac Surg** 1997 Apr;63(4):1003–11
Glucose level and myocardial recovery after warm arrest. Ning XH, et al. **Ann Thorac Surg** 1996 Dec;62(6):1825–9
Endothelial effects of hemostatic devices for continuous cardioplegia or minimally invasive operations. Perrault LP, et al. **Ann Thorac Surg** 1996 Oct;62(4):1158–63
Zinc-bis-histidinate preserves cardiac function in a porcine model of cardioplegic arrest. Powell SR, et al. **Ann Thorac Surg** 1997 Jul;64(1):73–80
Transient ventricular asystole using adenosine during minimally invasive and open sternotomy coronary artery bypass grafting. Robinson MC, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S30–4
Leukocyte depletion of blood cardioplegia attenuates

reperfusion injury. Schmidt FE Jr, et al.
Ann Thorac Surg 1996 Dec;62(6):1691–6; discussion 1696–7

Operation for type B aortic dissection using hypothermic selective cerebral perfusion. Tayama K, et al.
Ann Thorac Surg 1997 Feb;63(2):535–7

Effects of blood and crystalloid cardioplegia on adrenergic and myogenic vascular mechanisms. Wang SY, et al.
Ann Thorac Surg 1997 Jan;63(1):41–9

The contribution of Na+/H+ exchange to ischemia–reperfusion injury after hypothermic cardioplegic arrest. Yamauchi T, et al. **Ann Thorac Surg** 1997 Apr; 63(4):1107–12

The mechanism of cardioprotection by S–nitrosoglutathione monoethyl ester in rat isolated heart during cardioplegic ischaemic arrest. Konorev EA, et al. **Br J Pharmacol** 1996 Oct;119(3):511–8

Enhancement of calcium cycling by atrial sarcoplasmic reticulum after cardiopulmonary bypass and cardioplegia during open heart surgery. O'Brien PJ, et al.
Can J Physiol Pharmacol 1997 Feb;75(2):143–52

Hypothermic cardioplegic arrest is associated with increased myocardial adenosine. Shortt KG, et al. **Cardiology** 1996 Nov–Dec;87(6):516–23

Benefits of supplementing St Thomas' Hospital cardioplegic solution with tetraethylammonium on functional and metabolic recovery of isolated rat hearts. Bozkurt AK, et al. **Cardiovasc Surg** 1997 Feb;5(1):117–24

Effects of myocardial preservation on enzyme levels in serum and myocardium: a clinical study comparing cold crystalloid versus warm blood cardioplegia. Yuan SM.
Chung Hua I Hsueh Tsa Chih (Taipei) 1997 Jan;59(1):21–7

Low–temperature mapping predicts site of successful ablation while minimizing myocardial damage. Cote JM, et al.
Circulation 1996 Aug 1;94(3):253–7

Critical timing of nitric oxide supplementation in cardioplegic arrest and reperfusion. Engelman DT, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II407–11

Phase 1 human trial of adenosine–potassium cardioplegia. Fremes SE, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II370–5

Phorbol–12,13–dibutyrate and pinacidil cardioplegia. Novel forms of myoprotection. Kirvaitis RJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II381–8

Prolonged circulatory arrest in moderate hypothermia with retrograde cerebral perfusion. Is brain ischemic? Lin PJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II169–72

Intermittent whole–body perfusion with "somatoplegia' versus blood perfusate to extend duration of circulatory arrest. Miura T, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II56–62

Contributory mechanisms for the beneficial effects of myocyte preconditioning during cardioplegic arrest. O SJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II389–97

Is use of aprotinin safe with deep hypothermic circulatory arrest in aortic surgery? Investigations on blood coagulation. Okita Y, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II177–81

Augmented release of brain natriuretic peptide during reperfusion of the human heart after cardioplegic cardiac arrest. Mair P, et al. **Clin Chim Acta** 1997 May 6; 261(1):57–68

Interrupted warm blood cardioplegia [letter; comment] Ali IM. **Eur J Cardiothorac Surg** 1996;10(6):480. Comment on: Eur J Cardiothorac Surg 1995;9(3):133–8.

The use of profound hypothermia and circulatory arrest in operations on the thoracic aorta. Ehrlich M, et al.
Eur J Cardiothorac Surg 1997 Jan;11(1):176–81

Inhibition of endogenous endothelin during cardioplegia improves low coronary reflow following prolonged hypothermic arrest. Goodwin AT, et al.
Eur J Cardiothorac Surg 1997 May;11(5):981–7

Myocardial protection in chronic volume–overload hypertrophy of immature rat hearts. Karck M, et al.
Eur J Cardiothorac Surg 1996;10(8):690–8

Preconditioning during warm blood cardioplegia. Landymore R, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1113–7

Spinal cord protection using hypothermic cardiocirculatory arrest in extended repair of recoarctation and persistent hypoplastic aortic arch. Lange R, et al.
Eur J Cardiothorac Surg 1997 Apr;11(4):697–702

Repair for aneurysms of the entire descending thoracic aorta or thoracoabdominal aorta using a deep hypothermia. Okita Y, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):120–6

The effects of cardioplegic arrest and reperfusion on the microvasculature of the heart. Pathi VL, et al.
Eur J Cardiothorac Surg 1997 Feb;11(2):350–7

Aprotinin in aortic surgery requiring profound hypothermia and circulatory arrest. Rooney SJ, et al.
Eur J Cardiothorac Surg 1997 Feb;11(2):373–8

Thromboxane A2–receptor blockade improves cerebral protection for deep hypothermic circulatory arrest. Tsui SS, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):228–35

Surgery of the thoracic aorta using deep hypothermic total circulatory arrest. Are there neurological consequences other than frank cerebral defects? Welz A, et al.
Eur J Cardiothorac Surg 1997 Apr;11(4):650–6

Resection of hypernephromas with vena caval or right atrial tumor extension using extracorporeal circulation and deep hypothermic circulatory arrest: a multidisciplinary approach. Welz A, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):127–32

A biphasic response to adenosine in the coronary vasculature of the K(+)–arrested perfused rat heart. Harden FA, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):49–53

HTK versus UW solution for myocardial protection during moderate hypothermia. Kober IM, et al. **Eur Surg Res** 1997; 29(4):264–72

Surgical management of retroperitoneal tumors with vena caval thrombus in the inferior cava using cardiopulmonary bypass, arrested circulation and profound hypothermia. Rodríguez–Rubio FI, et al. **Eur Urol** 1997;32(2):194–7

Deep hypothermic circulatory arrest with and without retrograde cerebral perfusion. Raskin SA, et al.
Int Anesthesiol Clin 1996 Spring;34(2):177–93 (26 ref.)

Prostaglandin E1 (PGE1) reduces cardiac–derived TXA2 release in ischaemic arrest in isolated working rat heart. Feng J, et al. **Int J Cardiol** 1996 Aug;55(3):265–70

A simple technique for retrograde cerebral perfusion during circulatory arrest. Cope JT, et al. **J Card Surg** 1996 Jan–Feb;11(1):65–7

A case for aprotinin in patients having deep hypothermic circulatory arrest. Royston D. **J Card Surg** 1997 Mar–Apr; 12(2 Suppl):214–20; discussion 220–1 (54 ref.)

Safety and efficacy of aprotinin in profoundly hypothermic circulatory arrest. Westaby S. **J Card Surg** 1997 Mar–Apr; 12(2 Suppl):207–13 (32 ref.)

Topical ice slurry prevents brain rewarming during deep hypothermic circulatory arrest in newborn sheep. Brooker RF, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):591–4

Early effects of coronary artery bypass surgery and cold cardioplegic ischemia on left ventricular diastolic function: evaluation by computer–assisted transesophageal echocardiography. Houltz E, et al.
J Cardiothorac Vasc Anesth 1996 Oct;10(6):728–33

What is the safe time limit for retrograde cerebral perfusion with hypothermic circulatory arrest in aortic surgery? Sasaguri S, et al. **J Cardiovasc Surg (Torino)** 1996 Oct; 37(5):441–4

Changes in arterial blood PO2, PCO2, and pH during deep hypothermic circulatory arrest in adults. Kim TS, et al.
J Korean Med Sci 1997 Jun;12(3):199–203

Adenosine slows the rate of K(+)–induced membrane depolarization in ventricular cardiomyocytes: possible implication in hyperkalemic cardioplegia. Alekseev AE, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1193–202

Impaired cardioplegic delivery and the loss of cardioprotection: a role for preconditioning. Galiñanes M, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):849–54

Ischemic preconditioning, cardioplegia or both? Differing approaches to myocardial and vascular protection. Kolocassides KG, et al. **J Mol Cell Cardiol** 1996 Mar; 28(3):623–34

Cerebral oximetry during circulatory arrest for aneurysm surgery. Samra SK, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):154–8

Deoxygenated blood minimizes adherence of sonicated albumin microbubbles during cardioplegic arrest and after blood reperfusion: experimental and clinical observations with myocardial contrast echocardiography. Bayfield MS, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1100–8

Collateral flow prevents unintentional myocardial ischemia during antegrade cardioplegia in patients undergoing coronary artery bypass grafting. Caretta Q, et al.
J Thorac Cardiovasc Surg 1997 Mar;113(3):585–93

Coronary vascular regulation during postcardioplegia reperfusion. Ferguson ER, et al.
J Thorac Cardiovasc Surg 1996 Oct;112(4):1054–63

Cerebral protection during moderate hypothermic circulatory arrest: histopathology and magnetic resonance spectroscopy of brain energetics and intracellular pH in pigs. Filgueiras CL, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1073–80

Direct effects of oxygenated crystalloid or blood cardioplegia on isolated myocyte contractile function. Handy JR Jr, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1064–72

Exogenous surfactant treatment before and after sixteen hours of ischemia in experimental lung transplantation. Hausen B, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1050–8

Myocardial protection in the acutely injured heart: hyperpolarizing versus depolarizing hypothermic cardioplegia. Lawton JS, et al.
J Thorac Cardiovasc Surg 1997 Mar;113(3):567–75

Hypothermia during preconditioned ischemia–reperfusion attenuates the myocardial protection of preconditioning [letter] Lu EX, et al. **J Thorac Cardiovasc Surg** 1997 Sep; 114(3):514–6

Ischemic preconditioning in cardiac surgery: a word of caution. Perrault LP, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1378–86

Cellular edema and alterations in metabolite content in the ischemic and reperfused canine heart following different forms of cardiac arrest. Schmiedl A, et al.
Pathol Res Pract 1996 Nov;192(11):1163–78

Troponin T release with warm and cold cardioplegia. Brackenbury ET, et al. **Perfusion** 1996 Sep;11(5):377–82

Massive arterial air embolism during cardiopulmonary bypass: antegrade blood cardioplegia delivered by the pump—an accident waiting to happen. Jones NC, et al.
Perfusion 1996 Mar;11(2):157–61

Normotherm continuous blood cardioplegia for 4 hours in an in vivo pig model. Irtun O, et al.
Scand J Thorac Cardiovasc Surg 1996;30(3–4):125–32

Blood cardioplegia does not increase haemolysis. A comparison between crystalloid and blood cardioplegia in coronary artery bypass grafting. Rinne TT.
Scand J Thorac Cardiovasc Surg 1996;30(2):65–9

Retrograde cerebral perfusion (RCP) in aortic arch surgery: efficacy and possible mechanisms of brain protection. Bavaria JE, et al. **Semin Thorac Cardiovasc Surg** 1997 Jul; 9(3):222–32 (55 ref.)

Effect of the potassium–channel opener nicorandil as an adjunct to cardioplegia on myocardial preservation in isolated rabbit hearts. Wang Y, et al. **Surg Today** 1996; 26(10):782–92

Improved recovery after cold crystalloid cardioplegia using low–dose glutamate enrichment during reperfusion after aortic unclamping: a study in isolated blood–perfused pig hearts. Kimose HH, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):118–25

Changes in intracellular Ca2+ concentration of rabbit coronary artery smooth muscle cell during ischemic cardioplegic period. Lee YH, et al. **Yonsei Med J** 1996 Aug;37(4):251–61

[The effects of cardioplegia and reperfusional blood containing captopril on myocardial ultrastructure alterations after cardiac arrest] Guo X, et al.
Chung Hua I Hsueh Tsa Chih 1996 Oct;76(10):733–7 (Eng. Abstr.) **(Chi)**

[Novel method for lower–half body perfusion at circulatory arrest] Okuyama H, et al. **Kyobu Geka** 1996 Nov; 49(12):994–6 (Eng. Abstr.) **(Jpn)**

[Comparison of the protective prorerties of St. Thomas', Tyers', and Bretschneider's cardioplegic solutions in the neonatal rabbit heart] Murashita T, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 Nov; 44(11):2019–26 (Eng. Abstr.) **(Jpn)**

[Effects of ischemic preconditioning on the recovery of myocardial function after unprotected ischemia and cardioplegia in the isolated and crystalloid perfused rat hearts] Otani H, et al.
Nippon Kyobu Geka Gakkai Zasshi 1997 Jan;45(1):23–30 (Eng. Abstr.) **(Jpn)**

[Cerebral oxygen desaturation during rewarming in retrograde cerebral perfusion with total circulatory arrest] Saito S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec; 44(12):2138–45 (Eng. Abstr.) **(Jpn)**

[The effect of nitric oxide synthase inhibitor on reperfusion injury to the brain under hypothermic circulatory arrest] Segawa D, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):687–93 (Eng. Abstr.) **(Jpn)**

[Effect of amiloride on the early and late stage of postischemic recovery in isolated perfused rat hearts—possible involvement of Na+/H+ and Na+/Ca2+ exchange] Yoshizumi M, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 Sep;44(9):1735–41 (Eng. Abstr.) **(Jpn)**

[Effect of intravenous diltiazem (CRD–401) on myocardial protection—clinical experience in coronary artery revascularization] Sunamori M, et al.
Rinsho Kyobu Geka 1988 Feb;8(1):61–6 (Eng. Abstr.) **(Jpn)**

[Retrograde cerebral perfusion during circulatory arrest with deep hypothermia. A new technique for brain protection in surgery of ascending aorta and aortic arch] Zalaquett R, et al. **Rev Med Chil** 1995 Dec;123(12):1489–98 (Eng. Abstr.) **(Spa)**

[Pulmonary thromboendarterectomy: a case of surgical treatment of chronic pulmonary thromboembolism under circulatory arrest with deep hypothermia] Zalaquett R, et al. **Rev Med Chil** 1996 Jul;124(7):847–54 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Expression of immediate early genes after cardioplegic arrest and reperfusion. Aebert H, et al. **Ann Thorac Surg** 1997 Jun;63(6):1669–75

Induction of neuronal nitric oxide after hypothermic circulatory arrest. Brock MV, et al. **Ann Thorac Surg** 1996 Nov;62(5):1313–20

Rare complication of retrograde cardioplegia: inner wall perforation of the right atrium. He GW.
Ann Thorac Surg 1997 Feb;63(2):539–41

Low–flow cardiopulmonary bypass produces greater pulmonary dysfunction than circulatory arrest. Skaryak LA, et al. **Ann Thorac Surg** 1996 Nov;62(5):1284–8

Preconditioning improves cardiac function after global ischemia, but not after cold cardioplegia. Valen G, et al.
Ann Thorac Surg 1996 Nov;62(5):1397–403

Is atelectasis following aortocoronary bypass related to temperature? Thomas JA, et al. **Chest** 1997 May; 111(5):1290–4

Pathophysiology of cerebral injury and future management. Baumgartner WA, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):300–10; discussion 310–1

Coronary sinus injury during retrograde cardioplegia: a report of three cases. Kshettry VR, et al. **J Card Surg** 1996 Sep–Oct;11(5):359–62

Hematological consequences of profound hypothermic circulatory arrest and aortic dissection. Wilde JT.
J Card Surg 1997 Mar–Apr;12(2 Suppl):201–6 (32 ref.)

Delayed presentation of coronary sinus rupture after retrograde cardioplegia. Guarracino F, et al.
J Cardiothorac Vasc Anesth 1997 Feb;11(1):89–90

Advances in myocardial protection? Khuri SF.
J Med Liban 1995;43(3):126–30 (12 ref.)

Neurophysiologic monitoring to assure delivery of retrograde cerebral perfusion. Ganzel BL, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):748–55; discussion 755–7

Cardiopulmonary bypass and circulatory arrest increase endothelin-1 production and receptor expression in the lung. Kirshbom PM, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):777–83

Higher hematocrit improves cerebral outcome after deep hypothermic circulatory arrest. Shin'oka T, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1610–20; discussion 1620–1

Release of markers of myocardial and endothelial injury following cold cardioplegic arrest in pigs. Valen G, et al. **Scand Cardiovasc J** 1997;31(1):45–50

Systemic release of thrombomodulin, but not from the cardioplegic, reperfused heart during open heart surgery. Valen G, et al. **Thromb Res** 1996 Aug 15;83(4):321–8

[Oxytocin improves recovery of the neurological status after a 10-min heart arrest in rats] Misharina GV, et al. **Biull Eksp Biol Med** 1994 May;117(5):459–61 **(Rus)**

INSTRUMENTATION

Simplified technique for antegrade cerebral perfusion. Scorsin M, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):776–8

Advances in myocardial protection: the role of mechanical devices in providing cardioprotective strategies. Stammers AH. **Int Anesthesiol Clin** 1996 Spring;34(2):61–84 (66 ref.)

Single leukocyte filter (Pall BC1B) fails in multidose cold blood cardioplegia. Roth M, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1116–7

[Left ventricular distribution of retrograde cardioplegia. Should the interventricular posterior vein be occluded in the coronary sinus?] Bezon E, et al. **Ann Cardiol Angeiol (Paris)** 1996 Nov;45(9):495–502 (Eng. Abstr.) **(Fre)**

METHODS

Myocardial cooling and right ventricular function in patients with right coronary artery disease: antegrade vs. retrograde cardioplegia. Honkonen EL, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):287–96

Cold and warm myocardial protection techniques. Guyton RA, et al. **Adv Card Surg** 1996;7:1–29 (80 ref.)

Coronary flow response after myocardial ischemia may predict level of functional recovery. Houston RJ, et al. **Adv Exp Med Biol** 1997;411:121–7

Is there a safe limit to coronary sinus pressure during retrograde cardioplegia? Eke CC, et al. **Am Surg** 1997 May; 63(5):417–20

Preconditioning to improve myocardial protection. Rao V, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:338–54 (72 ref.)

Pediatric myocardial protection. From the aspect of the developmental status of myocardium. Yamamoto F, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:355–65

Evaluation of 7,000+ patients with two different routes of cardioplegia. Arom KV, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1619–24

Intermittent warm blood cardioplegia preserves myocardial beta-adrenergic receptor function. Chello M, et al. **Ann Thorac Surg** 1997 Mar;63(3):683–8

Preconditioning and hypothermic cardioplegia protect human heart equally against ischemia. Cleveland JC Jr, et al. **Ann Thorac Surg** 1997 Jan;63(1):147–52

Hemolysis within infusion systems may accelerate adenosine degradation [letter] Demmy TL, et al. **Ann Thorac Surg** 1996 Oct;62(4):1242

Antegrade cardioplegia pressure monitoring [letter; comment] Fabri BM, et al. **Ann Thorac Surg** 1997 Jul; 64(1):292. Comment on: Ann Thorac Surg 1996 Oct;62(4):1213–4.

Evidence of improved microvascular perfusion when using antegrade and retrograde cardioplegia. Gates RN, et al. **Ann Thorac Surg** 1996 Nov;62(5):1388–91

1989: postoperative conduction disturbances: a comparison of blood and crystalloid cardioplegia. Updated in 1997. Gundry SR, et al. **Ann Thorac Surg** 1997 Mar;63(3):901–2

Is warm retrograde blood cardioplegia better than cold for myocardial protection? Kamlot A, et al. **Ann Thorac Surg** 1997 Jan;63(1):98–104

Normothermic retrograde blood cardioplegia with or without preceding ischemic preconditioning. Kaukoranta PK, et al. **Ann Thorac Surg** 1997 May;63(5):1268–74

Video-assisted coronary artery bypass grafting during hypothermic fibrillatory arrest. Lin PJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):1113–7

Assessment of continuous cold blood cardioplegia in coronary artery bypass grafting. Louagie YA, et al. **Ann Thorac Surg** 1997 Mar;63(3):689–96

The value of minicardioplegia in the clinical setting [letter] Machiraju VR, et al. **Ann Thorac Surg** 1997 Sep;64(3):887

Blood cardioplegia: do we still need to dilute? [editorial] Menasché P. **Ann Thorac Surg** 1996 Oct;62(4):957–60

Closed-chest cardiopulmonary bypass and cardioplegia: basis for less invasive cardiac surgery. Peters WS, et al. **Ann Thorac Surg** 1997 Jun;63(6):1748–54

Effect of intermittent warm blood cardioplegia on functional recovery after prolonged cardiac arrest. Tönz M, et al. **Ann Thorac Surg** 1996 Oct;62(4):1146–51

Continuous versus intermittent warm blood cardioplegia: functional and energetics changes. Torracca L, et al. **Ann Thorac Surg** 1996 Oct;62(4):1172–8; discussion 1178–9

Microvascular reactivity after cardioplegia [letter; comment] Tyers GF. **Ann Thorac Surg** 1997 Feb;63(2):598–9. Comment on: Ann Thorac Surg 1995 Oct;60(4):1021–7.

Aortic root pressure monitoring during antegrade cardioplegia administration [see comments] Young JN, et al. **Ann Thorac Surg** 1996 Oct;62(4):1213–4. Comment in: Ann Thorac Surg 1997 Jul;64(1):292.

Changes in the intracellular concentration of myocardial glutamine in patients undergoing coronary artery bypass surgery using crystalloid and blood cardioplegia. Suleiman MS, et al. **Biochem Soc Trans** 1996 Aug;24(3):487S

Intentional asystole during endoluminal thoracic aortic surgery without cardiopulmonary bypass. Baker AB, et al. **Br J Anaesth** 1997 Apr;78(4):444–8

Myocardial distribution of cardioplegia administered by antegrade and retrograde routes to ischemic myocardium. Carrier M, et al. **Can J Surg** 1997 Apr;40(2):108–13

Crystalloid versus cold blood cardioplegia and cardiac troponin I release. Pichon H, et al. **Circulation** 1997 Jul 1;96(1):316–20

Induction of early immediate genes and programmed cell death following cardioplegic arrest in human hearts. Aebert H, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):261–7

Warm blood cardioplegia in high risk patients. Bel A, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1118–23; discussion 1124

Cardiac troponin T and troponin I release during coronary artery surgery using cold crystalloid and cold blood cardioplegia. Caputo M, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):254–60

Lipid peroxidation, antioxidant status and troponin-T following cardiopulmonary bypass. A comparison between intermittent crossclamp with fibrillation and crystalloid cardioplegia. Cohen AS, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):248–53

Repair of descending thoracic aneurysms through a left posterolateral thoracotomy using deep hypothermic circulatory arrest. Dossche K, et al. **Eur J Cardiothorac Surg** 1996;10(9):799–802

High cardioplegic perfusion pressure entails reduced myocardial recovery. Irtun O, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):358–62

Near-infrared monitoring of myocardial oxygenation during intermittent warm blood cardioplegia. Kawasuji M, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):236–41

Surgery of the thoracic aorta with hypothermic circulatory arrest: experience with retrograde perfusion via the superior vena cava and demonstration of cerebral perfusion. Pagano D, et al. **Eur J Cardiothorac Surg** 1996;10(10):833–8; discussion 839

Aprotinin and deep hypothermic circulatory arrest: there are no benefits even when appropriate amounts of heparin are given. Parolari A, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):149–56

Maldistribution of multidose blood cardioplegia: pharmacologic intervention to prevent subendocardial hypoperfusion by alpha-adrenergic blockade. Sakakibara Y. **Eur Surg Res** 1997;29(1):20–6

Reduction of oxidative stress does not affect recovery of myocardial function: warm continuous versus cold intermittent blood cardioplegia. Biagioli B, et al. **Heart** 1997 May;77(5):465–73

Intermittent antegrade warm blood cardioplegia in aortic valve replacement. Calafiore AM, et al. **J Card Surg** 1996 Sep–Oct;11(5):348–54

A comparison of distribution between simultaneously or sequentially delivered antegrade/retrograde blood cardioplegia. Lee J, et al. **J Card Surg** 1996 Mar–Apr; 11(2):111–5

Aortic valve replacement: better myocardial protection by cold or warm retrograde blood cardioplegia? Boening A, et al. **J Heart Valve Dis** 1996 May;5(3):273–80

Advances in myocardial protection? Khuri SF. **J Med Liban** 1995;43(3):126–30 (12 ref.)

Myocardial protection of the hypoxic heart [letter; comment] Baker JE, et al. **J Thorac Cardiovasc Surg** 1997 Jun; 113(6):1123–4. Comment on: J Thorac Cardiovasc Surg 1996 Nov;112(5):1193–200; discussion 1200–1.

Myocardial protection in normal and hypoxically stressed neonatal hearts: the superiority of blood versus crystalloid cardioplegia. Bolling K, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):994–1003; discussion 1003–5

Myocardial protection in normal and hypoxically stressed neonatal hearts: the superiority of hypocalcemic versus normocalcemic blood cardioplegia [see comments] Bolling K, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1193–200; discussion 1200–1. Comment in: J Thorac Cardiovasc Surg 1997 Jun;113(6):1123–4.

Invited editorial on "effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest" [editorial; comment] Buckberg GD. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1661–3. Comment on: J Thorac Cardiovasc Surg 1996 Dec;112(6):1651–60.

Left ventricular diastolic function after coronary artery bypass grafting: a correlative study with three different myocardial protection techniques. Casthely PA, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):254–60

What is the best perfusion temperature for coronary revascularization? Engelman RM, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1622–32; discussion 1632–3

Angiographic and electron-beam computed tomography studies of retrograde cardioplegia via the coronary sinus. Farge A, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):1046–53

Angiographic and electron-beam computed tomography studies of retrograde cardioplegia via the coronary sinus [letter] Gates RN, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):518–9

Depolarizing cardiac arrest and endothelium-derived hyperpolarizing factor-mediated hyperpolarization and relaxation in coronary arteries: the effect and mechanism. He GW, et al. **J Thorac Cardiovasc Surg** 1997 May; 113(5):932–41

Continuous antegrade warm blood cardioplegia attenuates augmented coronary endothelium-dependent contraction after cardiac global ischemia and reperfusion. Lin PJ, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):100–8

Effects of glutamate and aspartate on myocardial substrate oxidation during potassium arrest [see comments] Reed MK, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1651–60. Comment in: J Thorac Cardiovasc Surg 1996 Dec;112(6):1661–3.

Single and multivessel port-access coronary artery bypass grafting with cardioplegic arrest: technique and reproducibility. Schwartz DS, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):46–52

Assessment of retrograde cardioplegia with magnetic resonance imaging and localized 31P spectroscopy in isolated pig hearts. Tian G, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):109–16

Non clamping anastomosis of the ascending and arch aneurysm using retrograde cerebral perfusion. Yamashita C, et al. **Kobe J Med Sci** 1996 Aug;42(4):261–70

Effect of hyperglycemia on ischemic brain damage during hypothermic circulatory arrest in newborn dogs. Vannucci RC, et al. **Pediatr Res** 1996 Aug;40(2):177–84

Warm cardiac surgery with continuous blood cardioplegia using a potassium infusion pump. Fried DW, et al. **Perfusion** 1997 Mar;12(1):21–6

Intermittent antegrade/selective cerebral perfusion during circulatory arrest for repair of the aortic arch. Maas C, et al. **Perfusion** 1997 Mar;12(2):127–32 (12 ref.)

Conduction disturbances after different blood cardioplegia modes in coronary artery bypass grafting. Including comparison with an earlier patient series. Pehkonen EJ, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3–4):149–55

Use of the retrograde "pull-through" technique. Vitali E, et al. **Tex Heart Inst J** 1997;24(2):114–7

[What myocardial protection to select for isolated aortic valve replacement? A clinical prospective study of 3 cases of cardioplegia] Bouchart F, et al. **Arch Mal Coeur Vaiss** 1997 Mar;90(3):345–51 (Eng. Abstr.) **(Fre)**

[Case report of a thoracoabdominal aneurysm operation using profound hypothermia and circulatory arrest] Okada Y, et al. **Kyobu Geka** 1996 Dec;49(13):1105–9 (Eng. Abstr.) **(Jpn)**

[Influence of recirculation type blood cardioplegia on perfusion pressure in open heart surgery] Watanabe T, et al. **Kyobu Geka** 1996 Aug;49(9):716–20 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of type A acute aortic dissection—experience of hypothermic circulatory arrest associated with the cerebroplegia] Hirotani T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):556–62 (Eng. Abstr.) **(Jpn)**

[Experimental study on resuscitation and salvage of myocardial function (RSMF) after normothermic ischemic arrest] Nakata S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):899–905 (Eng. Abstr.) **(Jpn)**

[Indication and result of hypothermic fibrillatory arrest in coronary artery bypass grafting] Okamura Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):623–8 (Eng. Abstr.) **(Jpn)**

[The efficacy of myocardial protection with prolonged aortic cross-clamping] Fujioka Y, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):170–3 (Eng. Abstr.) **(Jpn)**

[The prolonged aortic occlusion in valvular surgery and myocardial protection] Nakayama Y, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):174–7 (Eng. Abstr.) **(Jpn)**

STANDARDS

Recent experience of integrated myocardial management: the newest strategy for myocardial protection. Okamoto F, et al. **Artif Organs** 1997 Jul;21(7):798–802

HEART, ARTIFICIAL

Mechanical circulatory support. Richenbacher WE, et al. **Ann Thorac Surg** 1996 Nov;62(5):1558–9

Concept of totally biological internal coating for newly shaped artificial ventricles. Chatel D. **Artif Organs** 1996 Jul;20(7):814–7

Do sheep really have problems with cardiopulmonary bypass for total artificial heart implantation? Kim WG, et al. **Artif Organs** 1997 Feb;21(2):154–9

In vitro evaluation of linear motor-driven total artificial heart. Kobayashi M, et al. **Artif Organs** 1996 Dec;

20(12):1320–4
Total artificial heart using neural and fuzzy controller. Lee M, et al. **Artif Organs** 1996 Nov;20(11):1220–6
Past, present, and future of total artificial heart development at research institute of replacement medicine, Hiroshima University School of Medicine. Matsuura Y, et al. **Artif Organs** 1996 Oct;20(10):1073–92 (26 ref.)
Wireless monitoring and control for implantable rotary blood pumps. Mussivand T, et al. **Artif Organs** 1997 Jul; 21(7):661–4
A remotely controlled and powered artificial heart pump. Mussivand T, et al. **Artif Organs** 1996 Dec;20(12):1314–9
Can we develop a permanent pulsatile rotary blood pump? Yes, we can. Poirier VL. **Artif Organs** 1996 Jun; 20(6):475–80 (3 ref.)
New mechanism to reduce the size of the monopivot magnetic suspension blood pump: direct drive mechanism. Yamane T, et al. **Artif Organs** 1997 Jul;21(7):620–4
Extracting 1/f fluctuation from the arterial blood pressure of an artificial heart. Yambe T, et al. **Artif Organs** 1996 Jul;20(7):777–82
Immediate cardiac allograft failure. ECMO versus total artificial heart support. Adamson RM, et al. **ASAIO J** 1996 Jul–Aug;42(4):314–6
Development of a precise controller for an electrohydraulic total artificial heart. Improvement of the motor's dynamic response. Ahn JM, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M584–9
In vitro evaluation of automatic control performance of a total artificial heart with changes in pump orientation. Fukamachi K, et al. **ASAIO J** 1996 Sep–Oct;42(5):M589–92
Anatomic fitting studies of a total artificial heart in heart transplant recipients. Critical dimensions and prediction of fit. Fukamachi K, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M337–42
Set-up, improvement, and evaluation of an electrohydraulic total artificial heart with a separately placed energy converter. Masuzawa T, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M328–32
Feasibility of a nickel–metal hydride battery for totally implantable artificial hearts. Okamoto E, et al. **ASAIO J** 1996 Sep–Oct;42(5):M332–7
Development of an integrated artificial heart–lung device for long-term cardiopulmonary support. Tatsumi E, et al. **ASAIO J** 1996 Sep–Oct;42(5):M827–32
Recent improvements in a completely implanted total artificial heart. Weiss WJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M342–6
Mechanical circulatory support as a bridge to transplantation: past, present and future. Keon WJ, et al. **Can J Cardiol** 1996 Oct;12(10):1017–30 (71 ref.)
Mechanical Circulatory Support. Proceedings of the 5th International Symposium. Bad Oeynhausen, 7–9 September 1995. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S1–53
International experience with the CardioWest total artificial heart as a bridge to heart transplantation. Arabia FA, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S5–10
The need for artificial hearts. Westaby S. **Heart** 1996 Sep; 76(3):200–6
Development of a microcontroller–based automatic control system for the electrohydraulic total artificial heart. Kim HC, et al. **IEEE Trans Biomed Eng** 1997 Jan;44(1):77–89
Strange hemodynamic attractor parameter with 1/R total artificial heart automatic control algorithm. Yambe T, et al. **Int J Artif Organs** 1996 May;19(5):302–6
Bridge to transplantation with the CardioWest total artificial heart: the international experience 1993 to 1995. Copeland JG, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):94–9
Pulsatile impeller heart: a viable alternative to a problematic diaphragm heart. Qian KX. **Med Eng Phys** 1996 Jan; 18(1):57–66
Haematological variations of experimental pigs during biventricular assistance with impeller total heart. Qian KX, et al. **Med Eng Phys** 1996 Jan;18(1):67–9
Muscle to power artificial heart [news] Harby K. **Mol Med Today** 1996 Feb;2(2):49
Pump it up. A new implant sustains heart patients waiting for transplants [news] Sinha G. **Sci Am** 1996 Nov; 275(5):44–5
[CardioWest, a complete artificial heart, the French experience] Pavie A, et al. **Chirurgie** 1997 Jan; 121(9–10):685–9 (Eng. Abstr.) **(Fre)**
[Is It possible to accomplish artificial heart within 10 years] Takano H. **Kyobu Geka** 1997 Jan;50(1):13–6 (14 ref.) **(Jpn)**
[Extracorporeal heart pump—a bridge to heart transplantation. First Norwegian experiences] Fiane AE, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2295–8 (Eng. Abstr.) **(Nor)**
[When the heart is failing and the donor is missing] Lie M. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2294 **(Nor)**
[A model of the blood circulation system with extensive pulsing simulation as basis of monitoring artificial heart] Dittrich C, et al. **Med Tekh** 1996 Nov–Dec;(6):45–6 (Eng. Abstr.) **(Rus)**

HISTORY

Ottawa researchers enter home stretch in race to produce artificial heart. Gray C. **Can Med Assoc J** 1997 Feb 15; 156(4):553–5

PSYCHOLOGY

Is it really possible to support or replace a human heart with a mechanical pump—a human heart—with all its historical, philosophical, and emotional importance? Wolner E, et al. **Artif Organs** 1996 Jun;20(6):463–6

STANDARDS

A rotary blood pump: its design and development strategy [editorial] Nosé Y. **Artif Organs** 1997 Apr;21(4):263–4
Magnetically levitated motor for rotary blood pumps. Okada Y, et al. **Artif Organs** 1997 Jul;21(7):739–45
Trial manufacture of eccentric roller type total artificial heart. Sueshiro M, et al. **Artif Organs** 1997 Jul;21(7):735–8
Pulmonary arterial impedance analysis by the use of the oscillated assist flow. Yambe T, et al. **Artif Organs** 1997 Jul;21(7):751–4
Control of the artificial heart. Allen GS, et al. **ASAIO J** 1996 Nov–Dec;42(6):932–7 (75 ref.)
Use of a catecholamine sensor in the control of an artificial heart system. Mabuchi K, et al. **Int J Artif Organs** 1997 Jan;20(1):37–42

STATISTICS & NUMERICAL DATA

The Concerted Action 'Heart' European registry on clinical application of mechanical circulatory support systems: bridge to transplant. The Registry Scientific Committee. Quaini E, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):182–8

TRENDS

Development of the undulation pump total artificial heart. Abe Y, et al. **Artif Organs** 1997 Jul;21(7):665–9
Physiologic control of cardiac assist devices [letter] Murray KD, et al. **Artif Organs** 1997 Jan;21(1):84–6
Final stretch for the totally implantable TAH [editorial] Nosé Y. **Artif Organs** 1997 Feb;21(2):89–90
Therapeutic and physiological artificial heart: future prospects. Nosé Y, et al. **Artif Organs** 1997 Jul;21(7):592–6 (10 ref.)

HEART-ASSIST DEVICES

Imaging of ventricular assist devices and their complications. Knisely BL, et al. **AJR Am J Roentgenol** 1997 Aug; 169(2):385–91
Outpatient use of left ventricular assist devices: nursing, technical, and educational considerations. Moroney DA, et al. **Am J Crit Care** 1997 Sep;6(5):355–62
Functional properties of conditioned skeletal muscle: implications for muscle–powered cardiac assist. Trumble DR, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C588–97
Accuracy of pulse oximetry in aortomyoplasty and balloon counterpulsation [letter] Pandit JJ. **Anaesthesia** 1997 Jan; 52(1):87–8
Ventricular assist devices as a bridge to cardiac transplantation. A prelude to destination therapy. Holman WL, et al. **Ann Surg** 1997 Jun;225(6):695–704; discussion 705–6
Biventricular assist for severe acute rheumatic pancarditis [letter; comment] Barlow JB, et al. **Ann Thorac Surg** 1997 Mar;63(3):920–1. Comment on: Ann Thorac Surg 1996 Jul;62(1):267–9.
Circulatory resuscitation with left ventricular assist device support reduces interleukins 6 and 8 levels. Goldstein DJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):971–4
Clinical experience with the MEDOS HIA–VAD system in infants and children: a preliminary report. Konertz W, et al. **Ann Thorac Surg** 1997 Apr;63(4):1138–44
Flow characteristics of the Hemopump: an experimental in vitro study. Lönn U, et al. **Ann Thorac Surg** 1997 Jan; 63(1):162–6
Permanent mechanical circulatory support with an implantable left ventricular assist device. McCarthy PM, et al. **Ann Thorac Surg** 1997 May;63(5):1458–61
Development of an implantable ventricular assist system. Macris MP, et al. **Ann Thorac Surg** 1997 Feb;63(2):367–70
Right ventricular performance and left ventricular assist device filling. Mandarino WA, et al. **Ann Thorac Surg** 1997 Apr;63(4):1044–9
Effects of left heart assist on geometry and function of the interventricular septum. Markley JG, et al. **Ann Thorac Surg** 1996 Dec;62(6):1752–8
MEDOS HIA–VAD biventricular assist device for bridge to recovery in fulminant myocarditis. Martin J, et al. **Ann Thorac Surg** 1997 Apr;63(4):1145–6
Successful implantation of Thoratec assist device: wrapping of outflow conduit in Hemashield graft. Minami K, et al. **Ann Thorac Surg** 1997 Sep;64(3):861–2
Discontinuing the LVAD: ethical considerations [editorial] Powell TP, et al. **Ann Thorac Surg** 1997 May;63(5):1223–4
Management of left ventricular assist device infection with heart transplantation. Prendergast TW, et al. **Ann Thorac Surg** 1997 Jul;64(1):142–7
Mechanical circulatory support. Richenbacher WE, et al. **Ann Thorac Surg** 1996 Nov;62(5):1558–9
Intraoperative implantation of percutaneous left ventricular assist system. Satoh H, et al. **Ann Thorac Surg** 1996 Oct; 62(4):1192–4
Replacement of an intracorporeal left ventricular assist device. Skinner JL, et al. **Ann Thorac Surg** 1997 Sep; 64(3):839–41
Proceedings of the 4th Congress of the International Society for Rotary Blood Pumps. Tokyo, Japan, August 1–3, 1996. **Artif Organs** 1997 Jul;21(7):587–859
Prototype continuous flow ventricular assist device supported on magnetic bearings. Allaire PE, et al. **Artif Organs** 1996 Jun;20(6):582–90
Optimal control algorithm for pneumatic ventricular assist devices: its application to automatic control and monitoring of ventricular assist devices. Arai H, et al. **Artif Organs** 1996 Sep;20(9):1034–41
An automatic flow controller for a centrifugal blood pump. Beppu T, et al. **Artif Organs** 1997 Jul;21(7):630–4
The Cleveland Clinic rotodynamic pump program. Golding LA, et al. **Artif Organs** 1996 Jun;20(6):481–4
Various problems during long-term percutaneous cardiopulmonary support. Ihno T, et al. **Artif Organs** 1997 Jul;21(7):766–71
High-resolution fluorescent particle-tracking flow visualization within an intraventricular axial flow left ventricular assist device. Kerrigan JP, et al. **Artif Organs** 1996 Jun;20(6):534–40
Using hybrid magnetic bearings to completely suspend the impeller of a ventricular assist device. Khanwilkar P, et al. **Artif Organs** 1996 Jun;20(6):597–604
Why do ninety-seven thousand people have to die? [editorial] Kloff WJ. **Artif Organs** 1996 Dec;20(12):1263–5
Findlay implantable two-stage centrifugal pump. Moulder PV, et al. **Artif Organs** 1996 Jun;20(6):503–12
A remotely controlled and powered artificial heart pump. Mussivand T, et al. **Artif Organs** 1996 Dec;20(12):1314–9
Development and initial testing of a permanently implantable centrifugal pump. Nakazawa T, et al. **Artif Organs** 1997 Jul;21(7):597–601
Hydraulic assessment of the floating impeller phenomena in a centrifugal pump. Nakazawa T, et al. **Artif Organs** 1997 Jan;21(1):78–82
Rotary blood pump: paracorporeal, implantable, percutaneous? [editorial] Nishida H, et al. **Artif Organs** 1997 Jul;21(7):589–91
Therapeutic and physiological artificial heart: future prospects. Nosé Y, et al. **Artif Organs** 1997 Jul;21(7):592–6 (10 ref.)
FDA approval of clinical studies on left ventricular assist system for its therapeutic application [editorial] Nosé Y. **Artif Organs** 1996 Apr;20(4):283
Evolution toward the development of totally implantable rotary blood pumps [editorial] Ohtsubo S, et al. **Artif Organs** 1996 Jun;20(6):461–2
Realization of a permanent implantable pulsatile impeller heart with magnetically suspended motor. Qian KX, et al. **Artif Organs** 1997 Jul;21(7):670–4
Management of acute fulminant myocarditis using circulatory support systems. Reiss N, et al. **Artif Organs** 1996 Aug; 20(8):964–70
A novel valveless rotary pump for cardiac assist. Rosenfeldt FL, et al. **Artif Organs** 1997 May;21(5):420–5
Material of the double pivot bearing system in the Gyro C1E3 centrifugal pump. Takami Y, et al. **Artif Organs** 1997 Feb; 21(2):143–7
Use of motor current in flow rate measurement for the magnetically suspended centrifugal blood pump. Tsukiya T, et al. **Artif Organs** 1997 May;21(5):396–401
A clinical study for the durability of oxygenators on cardiopulmonary support. Usui A, et al. **Artif Organs** 1997 Jul;21(7):772–8
Biventricular assist using a portable driver in combination with implanted devices: preliminary experience. von Segesser LK, et al. **Artif Organs** 1997 Jan;21(1):72–5
The pulsatile impeller pump for left ventricular assist. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1310–3
Current status of heart assist and replacement in Taiwan. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1325–9
Chronic animal experiment with magnetically suspended centrifugal pump. Yamada T, et al. **Artif Organs** 1997 Jul; 21(7):635–8
Nonlinear mathematical analysis of the hemodynamic parameters during left ventricular assistance with oscillated blood flow. Yambe T, et al. **Artif Organs** 1997 Jul; 21(7):625–9
Success rates of long-term circulatory assist devices used currently for bridge to heart transplantation. Arabia FA, et al. **ASAIO J** 1996 Sep–Oct;42(5):M542–6 (34 ref.)
Pulsatile operation of a centrifugal ventricular assist device with magnetic bearings. Bearnson GB, et al. **ASAIO J** 1996 Sep–Oct;42(5):M620–4
Development of a prototype magnetically suspended rotor ventricular assist device. Bearnson GB, et al. **ASAIO J** 1996 Jul–Aug;42(4):275–81
A design improvement strategy for axial blood pumps using computational fluid dynamics. Burgreen GW, et al. **ASAIO J** 1996 Sep–Oct;42(5):M354–60
Adult placenta: heparin bonded extracorporeal life support systems. Golding LA. **ASAIO J** 1996 Jan–Feb;42(1):16–8 (24 ref.)
Development of a high permeability cored transintegumental power transformer. Helmicki AJ, et al. **ASAIO J** 1996 Sep–Oct;42(5):M624–9
Evolution of an electrohydraulic ventricular assist device through in vivo testing. The EVAD Team. Hendry PJ, et al. **ASAIO J** 1996 Sep–Oct;42(5):M350–4
Ex vivo evaluation of the NASA/DeBakey axial flow

ventricular assist device. Results of a 2 week screening test. Kawahito K, et al. **ASAIO J** 1996 Sep-Oct;42(5):M754-7

Effect of additional intraaortic balloon support during weaning from a left ventricular assist system. Kitamura M, et al. **ASAIO J** 1996 Sep-Oct;42(5):M347-9

Effect of pulsatility and hemodynamic power on recovery of renal function. Konishi H, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M720-3

A tubular pediatric ventricular assist device. Design considerations and system characteristics. Kung RT, et al. **ASAIO J** 1996 Jul-Aug;42(4):255-62

Results of mechanical ventricular assistance for the treatment of post cardiotomy cardiogenic shock. Mehta SM, et al. **ASAIO J** 1996 May-Jun;42(3):211-8

Bridging to transplant. Equal extended survival for patients undergoing LVAD support when compared with long-term medical management. Mehta SM, et al. **ASAIO J** 1996 Sep-Oct;42(5):M406-10

Experimental study of combination of extraaortic balloon counterpulsation and ventricular assist cup to acute heart failure in dogs. Mitsumaru A, et al. **ASAIO J** 1997 May-Jun;43(3):187-92

A compressive type skeletal muscle pump as a biomechanical energy source. Mizuhara H, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M637-41

Extended cardiac support with a portable left ventricular assist system in the home. Myers TJ, et al. **ASAIO J** 1996 Sep-Oct;42(5):M576-9

In vitro testing of endothelial cell monolayers under dynamic conditions inside a beating ventricular prosthesis. Nikolaychik VV, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M487-94

Development of a magnetically suspended centrifugal pump as a cardiac assist device for long-term application. Nishimura K, et al. **ASAIO J** 1996 Jan-Feb;42(1):68-71

Exercise capacity recovers slowly but fully in patients with a left ventricular assist device. Nishimura M, et al. **ASAIO J** 1996 Sep-Oct;42(5):M568-70

Can heparin immobilized surfaces maintain nonthrombogenic activity during in vivo long-term implantation? Nojiri C, et al. **ASAIO J** 1996 Sep-Oct;42(5):M468-75

The role of pulsatility in end-organ microcirculation after cardiogenic shock. Orime Y, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M724-9

A single pulsatile pump for total biventricular cardiac support using patient lung ventilation. Ottmers SE, et al. **ASAIO J** 1996 Sep-Oct;42(5):M796-9

Chronic left ventricular assist in calves with a pulsatile impeller pump. Qian KX, et al. **ASAIO J** 1997 Jan-Feb; 43(1):89-91

Age related outcome after implantable left ventricular assist system support. Smedira NG, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M570-3

Influence of non pulsatile systemic circulation on tissue blood flow and oxygen metabolism. Tatsumi E, et al. **ASAIO J** 1996 Sep-Oct;42(5):M757-62

Altered oxygen metabolic conditions associated with increased norepinephrine levels in a nonpulsatile systemic circulation. Tatsumi E, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M854-8

A comparison between intraperitoneal and extraperitoneal left ventricular assist system placement. Wasler A, et al. **ASAIO J** 1996 Sep-Oct;42(5):M573-6

Long-term implantable circulatory support. Westaby S, et al. **Br J Hosp Med** 1997 Apr 2-15;57(7):333-8

The Hemopump as a left ventricular assist device in pediatric applications: initial Canadian applications. al Jarallah AS, et al. **Can J Cardiol** 1997 May;13(5):489-94

Mechanical circulatory support as a bridge to transplantation: past, present and future. Keon WJ, et al. **Can J Cardiol** 1996 Oct;12(10):1017-30 (71 ref.)

Distal coronary hemoperfusion during percutaneous transluminal coronary angioplasty. de Muinck ED, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):233-40; discussion 241-2 (56 ref.)

Clinical use of left ventricular assist device. Lu Z, et al. **Chin Med J (Engl)** 1996 Jan;109(1):27-9 (13 ref.)

Assessment of submaximal exercise capacity in patients with left ventricular assist devices. Foray A, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II222-6

Influence of inhaled nitric oxide on systemic flow and ventricular filling pressure in patients receiving mechanical circulatory assistance. Hare JM, et al. **Circulation** 1997 May 6;95(9):2250-3

Effects of exercise during long-term support with a left ventricular assist device. Results of the experience with left ventricular assist device with exercise (EVADE) pilot trial [see comments] Jaski BE, et al. **Circulation** 1997 May 20;95(10):2401-6. Comment in: Circulation 1997 May 20;95(10):2340-3.

Deep thoughts on tin men. Fact, fallacy, and future of mechanical circulatory support [editorial; comment] Levin HR, et al. **Circulation** 1997 May 20;95(10):2340-3 (25 ref.) . Comment on: Circulation 1997 May 20;95(10):2401-6.

Weaning from mechanical cardiac support in patients with idiopathic dilated cardiomyopathy [see comments] Müller J, et al. **Circulation** 1997 Jul 15;96(2):542-9. Comment in: Circulation 1997 Jul 15;96(2):393-5.

Bridge experience with long-term implantable left ventricular assist devices. Are they an alternative to transplantation? Oz MC, et al. **Circulation** 1997 Apr 1; 95(7):1844-52

The continuing evolution of mechanical ventricular assistance. Argenziano M, et al. **Curr Probl Surg** 1997 Apr; 34(4):317-86 (220 ref.)

Mechanical Circulatory Support. Proceedings of the 5th International Symposium. Bad Oeynhausen, 7-9 September 1995. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S1-53

Out-of-hospital experience in patients with implantable mechanical circulatory support: present and future trends. Fey O, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S51-3

The development, evolution, and clinical utilization of artificial heart technology. Frazier OH. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S29-31

Circulatory support with paracorporeal pneumatic ventricular assist device (VAD) in infants and children. Ishino K, et al. **Eur J Cardiothorac Surg** 1997 May; 11(5):965-72

Long-term mechanical circulatory support as a bridge to transplantation, for recovery from cardiomyopathy, and for permanent replacement. Loebe M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S18-24

Mechanical circulatory support towards the permanent implantation. Loisance D, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S25-8

Will permanent LVADs be better than heart transplantation? Massad MG, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S11-7

Development of a non-pulsatile permanent rotary blood pump. Nose Y, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11 Suppl:S32-8

The heartmate left ventricular assist system: worldwide clinical results. Poirier VL. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S39-44

Improvement of heart-, lung-, and liver-performance during mechanical circulatory support by the Novacor-system. Roell W, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1045-51

Novacor LVAD bridge to transplantation in peripartum cardiomyopathy. Tandler R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):394-6

Staged discharge out of hospital of the Novacor left ventricular assist system (LVAS) recipients. Viganó M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S45-50

Technology ... battery-powered left ventricular-assist device [news] **Hosp Health Netw** 1996 Nov 20;70(22):14, 16

Cardiac assist devices. Hill AG, et al. **Int Anesthesiol Clin** 1996 Spring;34(2):85-94 (34 ref.)

Numerical modelling of blood flow behaviour in the valved catheter of the PUCA-pump, a LVAD. Morsink PL, et al. **Int J Artif Organs** 1997 May;20(5):277-84

A pivot bearing-supported centrifugal pump for a long-term assist heart. Nakazawa T, et al. **Int J Artif Organs** 1997 Apr;20(4):222-8

Biological evaluation of mechanical circulatory support systems in calves. Rakhorst G, et al. **Int J Artif Organs** 1996 Aug;19(8):472-6

Blood interaction with a Bioline heparin coated HIA-VAD: a study on calves. van der Kamp KW, et al. **Int J Artif Organs** 1997 Jan;20(1):43-50

Spectral analysis of hemodynamics during left ventricular assistance. Yambe T, et al. **Int J Artif Organs** 1996 Jun; 19(6):367-71

First successful implantation of an artificial heart in Israel: circulatory support for 90 days. Aravot DJ, et al. **Isr J Med Sci** 1996 Dec;32(12):1331-4

A permanent prosthesis for converting in situ muscle contractions into hydraulic power for cardiac assist. Trumble DR, et al. **J Appl Physiol** 1997 May;82(5):1704-11

Temporary mechanical support with the BVS 5000 assist device during treatment of acute myocarditis. Marelli D, et al. **J Card Surg** 1997 Jan-Feb;12(1):55-9

Exercise physiology in patients with left ventricular assist devices. Humphrey R. **J Cardiopulm Rehabil** 1997 Mar-Apr;17(2):73-5

Case 4--1996 the use of the implantable ventricular assist device in the treatment of right ventricular failure [clinical conference] Insler SR, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):672-7

Altered myocardial phenotype after mechanical support in human beings with advanced cardiomyopathy. Altemose GT, et al. **J Heart Lung Transplant** 1997 Jul;16(7):765-73

Duration of left ventricular assist device support affects transplant survival. Ashton RC Jr, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1151-7

Long-term left ventricular assist device support: a novel pump rate challenge exercise protocol to monitor native left ventricular function. Deng MC, et al. **J Heart Lung Transplant** 1997 Jun;16(6):629-35

Successful bridge to retransplantation with the wearable Novacor left ventricular assist system. Jacquet L, et al. **J Heart Lung Transplant** 1996 Jun;15(6):620-2

Delayed reversal of impaired metabolic vasodilation in patients with end-stage heart failure during long-term circulatory support with a left ventricular assist device. Khan T, et al. **J Heart Lung Transplant** 1997 Apr; 16(4):449-53

Transient normalization of systolic and diastolic function after support with a left ventricular assist device in a patient with dilated cardiomyopathy. Levin HR, et al. **J Heart Lung Transplant** 1996 Aug;15(8):840-2

Effects of mechanical left ventricular support on right ventricular diastolic function. Moon MR, et al. **J Heart Lung Transplant** 1997 Apr;16(4):398-407

Mechanical circulatory assistance: changing indications and options. Piccione W Jr. **J Heart Lung Transplant** 1997 Jun; 16(6):S25-8 (12 ref.)

Multiple episodes of thrombosis with biventricular support devices with inadequate anticoagulation and evidence of accelerated intravascular coagulation. Despotis GJ, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):419-22

Preoperative and postoperative comparison of patients with univentricular and biventricular support with the thoratec ventricular assist device as a bridge to cardiac transplantation. Farrar DJ, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):202-9

Diagnosis and successful treatment of a unique form of malfunction of the heartmate left ventricular assist device. Jahania S, et al. **J Thorac Cardiovasc Surg** 1997 Jul; 114(1):143-4

Does successful bridging with the implantable left ventricular assist device affect cardiac transplantation outcome? Massad MG, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1275-81; discussion 1282-3

Organ perfusion with Hemopump device assistance with and without intraaortic balloon pumping. Meyns B, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):243-53

The Jarvik 2000 Oxford system: increasing the scope of mechanical circulatory support. Westaby S, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):467-74

Successful bridging to cardiac transplantation in a dystrophic infant with the use of a new paracorporeal pneumatic pump. Weyand M, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):505-7

Comparative testing of pulsatile impeller total heart and sarns nonpulsatile roller as biventricular assist device in pigs. Qian KX, et al. **Med Eng Phys** 1996 Jun;18(4):320-5

Haematological variations of experimental pigs during biventricular assistance with impeller total heart. Qian KX, et al. **Med Eng Phys** 1996 Jan;18(1):67-9

Prolonged extracorporeal life support for bridging to transplant: technical and mechanical considerations. Frazier EA, et al. **Perfusion** 1997 Mar;12(2):93-8

Biventricular assist device as a bridge to cardiac transplantation in the treatment of peripartum cardiomyopathy. Lewis R, et al. **South Med J** 1997 Sep; 90(9):955-8

Microembolic signals in patients with left ventricular assist devices [letter; comment] Roberts JK, et al. **Stroke** 1996 Oct;27(10):1915-6. Comment on: Stroke 1996 May;27(5):891-6.

Long-term mechanical circulatory support. el-Banayosy A, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):127-30

Seven years of experience with the centrifugal pump in patients with cardiogenic shock. El-Banayosy A, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):347-51

Do long-term results justify bridging to heart transplantation in patients with multi-organ dysfunction? Brandt M, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):277-81

Beating heart implantation of a wearable NOVACOR left-ventricular assist device. Scheld HH, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):62-6

Mechanical support--benefits and risks [editorial] Scheld HH. **Thorac Cardiovasc Surg** 1997 Feb;45(1):1-5 (32 ref.)

Left-ventricular unloading with a new pulsatile assist device: the HIA-VAD system and its influence on myocardial stunning. Waldenberger FR, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):313-9

Complete recovery of posttransplant primary heart dysfunction by prolonged mechanical assistance: report of two cases and arguments for a state of stunned myocardium. Dureau G, et al. **Transplant Proc** 1996 Oct; 28(5):2871-4

Utilization of intravenous immunoglobulin to ameliorate alloantibodies in a highly sensitized patient with a cardiac assist device awaiting heart transplantation. Fluorescence-activated cell sorter analysis. McIntyre JA, et al. **Transplantation** 1996 Sep 15;62(5):691-3

[What are the indications for ambulatory mechanical hart-assist devices for the left ventricle?] Bouhour JB, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:81-4 (Eng. Abstr.) **(Fre)**

[Improvement of patients' condition by using a mechanical heart-assist device] Jacquet L. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:75-9 (13 ref.) (Eng. Abstr.) **(Fre)**

[Mechanical circulatory assistance using the Novacor implanted device. A postoperative follow-up] Le Besnerais P, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:71-3 (Eng. Abstr.) **(Fre)**

[Baxter-Novacor type implanted ventricular device: a possible alternative to transplantation] Loisance D. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:65-70 (Eng. Abstr.) **(Fre)**

[Left ventricular assistance by postoperative mechanical devices in neonates] Robin J, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):661-5 (Eng. Abstr.) **(Fre)**

[Mechanical system of left ventricle cannulation: control of tightness by experimental left ventricular assistance] Bezon E, et al. **Chirurgie** 1996;121(6):447-52 (Eng. Abstr.) **(Fre)**

[Wearable Baxter-Novacor mechanical ventricular assistance] Loisance D, et al. **Chirurgie** 1997 Jan; 121(9-10):696-701 (Eng. Abstr.) **(Fre)**

[Reflections on external circulatory assistance. Apropos of

8 patients treated with the MEDOS system] Villemot JP, et al. **Chirurgie** 1997 Jan;121(9–10):690–5 (Eng. Abstr.) **(Fre)**

["Bridge to transplantation" using the Pierce–Donachy pulsatile ventricular assist device (Thoratec)] Defraigne JO, et al. **Rev Med Liege** 1997 Feb;52(2):110–5 **(Fre)**

[Circulatory assistance. II. Complications and results] Defraigne JO, et al. **Rev Med Liege** 1996 May;51(5):359–67 (97 ref.) **(Fre)**

[High risk PTCA: prevention and treatment of cardiogenic shock with mechanical assist systems] Figulla HR, et al. **Z Kardiol** 1996;85 Suppl 1:33–7 (12 ref.) (Eng. Abstr.) **(Ger)**

[Inflammatory mediators in patients with biventricular assist device systems] Hasper D, et al. **Z Kardiol** 1996 Nov; 85(11):820–7 (Eng. Abstr.) **(Ger)**

[Successful treatment of fulminant myocarditis with the biventricular MEDOS Assist System (MEDOS HIA–VAD)] Martin J, et al. **Z Kardiol** 1997 Mar; 86(3):179–82 (Eng. Abstr.) **(Ger)**

[Acute and chronic mechanical circulatory support] Waldenberger FR, et al. **Z Kardiol** 1996;85 Suppl 4:61–8 (Eng. Abstr.) **(Ger)**

[Mechanical circulatory assistance with the Novacor LVAS] Martinelli L. **Cardiologia** 1996 Nov;41(11):1113–6 **(Ita)**

[Hemopump: a temporary left ventricular assist device] Susini G. **Cardiologia** 1995 Dec;40(12):959–61 **(Ita)**

[Anesthesiology problems for implant and explant of left ventricular Novacor systems] Domenegati E, et al. **Minerva Anestesiol** 1996 Jun;62(6):219–27 (Eng. Abstr.) **(Ita)**

[Survival of a patient with postinfarction ventricular septal defect following venoarterial bypass with centrifugal pump and reoperation for residual shunt] Ohuchi H, et al. **Kyobu Geka** 1996 Sep;49(10):838–41 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Repair of ischemic cardiac rupture and perioperative management with mechanical circulatory assist] Misawa Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb; 45(2):141–5 (Eng. Abstr.) **(Jpn)**

[A successful retraining of the left ventricle with a left ventricular assist device (bio–medicus) after the arterial switch operation] Takagaki M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1015–9 (Eng. Abstr.) **(Jpn)**

[Clinical experience for ventricular assist device] Sezai Y, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):478–85 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Low thromboembolic risk without anticoagulation using advanced–design left ventricular assist devices. Slater JP, et al. **Ann Thorac Surg** 1996 Nov;62(5):1321–7; discussion 1328 (41 ref.)

Evaluation of hemolysis in a pulsatile assist device for centrifugal pump. Iwaya F, et al. **Artif Organs** 1997 Jul; 21(7):700–3

Hemolysis in different centrifugal pumps. Kawahito K, et al. **Artif Organs** 1997 Apr;21(4):323–6

Hemolysis test of disposable type vibrating flow pump. Kobayashi S, et al. **Artif Organs** 1997 Jul;21(7):691–3

In vitro thrombogenesis study in the Gyro C1E3 for vibration assessment. Nakazawa T, et al. **Artif Organs** 1997 Jul; 21(7):714–9

Vibration assessment for thrombus formation in the centrifugal pump. Nakazawa T, et al. **Artif Organs** 1997 Apr;21(4):318–22

Hemolytic effect of the secondary vane incorporated into the back side of the impeller. Ohara Y, et al. **Artif Organs** 1997 Jul;21(7):694–9

Estimating mechanical blood trauma in a centrifugal blood pump: laser Doppler anemometer measurements of the mean velocity field. Pinotti M, et al. **Artif Organs** 1996 Jun;20(6):546–52

New method of evaluating sublethal damage to erythrocytes by blood pumps. Shimono T, et al. **Artif Organs** 1996 Jun; 20(6):568–71

Hemolytic characteristics of a pivot bearing supported Gyro centrifugal pump (C1E3) simulating various clinical applications. Takami Y, et al. **Artif Organs** 1996 Sep; 20(9):1042–9

Hemolytic effect of surface roughness of an impeller in a centrifugal blood pump. Takami Y, et al. **Artif Organs** 1997 Jul;21(7):686–90

Eccentric inlet port of the pivot bearing supported Gyro centrifugal pump. Takami Y, et al. **Artif Organs** 1997 Apr; 21(4):312–7

In vitro thrombogenic evaluation of centrifugal pumps. Tayama E, et al. **Artif Organs** 1997 May;21(5):418–20

The hemolysis test of the Gyro C1E3 pump in pulsatile mode. Tayama E, et al. **Artif Organs** 1997 Jul;21(7):675–9

Reconsideration of total erythrocyte destruction phenomenon. Tayama E, et al. **Artif Organs** 1997 Jul; 21(7):704–9

Gastrointestinal consequences of left ventricular assist device placement. el–Amir NG, et al. **ASAIO J** 1996 May–Jun; 42(3):150–3

Venoarterial shunting for the treatment of right sided circulatory failure after left ventricular assist device placement. Goldstein DJ, et al. **ASAIO J** 1997 May–Jun; 43(3):171–6

Asymptomatic microembolism in patients with long–term ventricular assist support. Moazami N, et al. **ASAIO J** 1997 May–Jun;43(3):177–80

Thromboembolic complications in a peripartum cardiomyopathy patient supported with the Abiomed BVS–5000 ventricular assist device. Resano FG, et al. **ASAIO J** 1996 May–Jun;42(3):240–1

Pulmonary hypertension is not a risk factor for RVAD use and death after left ventricular assist system support. Smedira NG, et al. **ASAIO J** 1996 Sep–Oct;42(5):M733–5

Retrospective analysis of infection in patients undergoing support with left ventricular assist systems. Springer WE, et al. **ASAIO J** 1996 Sep–Oct;42(5):M763–5

In vivo observation of cavitation on prosthetic heart valves. Zapanta CM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M550–5

PTCA with the use of cardiac assist devices: risk stratification, short– and long–term results [see comments] Ferrari M, et al. **Cathet Cardiovasc Diagn** 1996 Jul; 38(3):242–8. Comment in: Cathet Cardiovasc Diagn 1996 Jul;38(3):249–50.

Supported angioplasty: another look [editorial; comment] Tommaso CL. **Cathet Cardiovasc Diagn** 1996 Jul; 38(3):249–50. Comment on: Cathet Cardiovasc Diagn 1996 Jul;38(3):242–8.

Left ventricular assist device infection is associated with increased mortality but is not a contraindication to transplantation. Herrmann M, et al. **Circulation** 1997 Feb 18;95(4):814–7

Increased activation of the coagulation and fibrinolytic systems leads to hemorrhagic complications during left ventricular assist implantation. Livingston ER, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II227–34

Prediction of right ventricular dysfunction after left ventricular assist device implantation. Nakatani S, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II216–21

Genetically engineered smooth muscle cells as linings to improve the biocompatibility of cardiovascular prostheses. Scott–Burden T, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II235–8

Infectious complications in left ventricular assist device recipients. Fischer SA, et al. **Clin Infect Dis** 1997 Jan; 24(1):18–23

Left ventricular assist devices. Psychosocial burden and implications for heart transplant programs. Shapiro PA, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):30S–35S

Risk of left ventricular assist device as a bridge to heart transplant following postinfarction ventricular septal rupture. Kshettry VR, et al. **J Card Surg** 1997 Mar–Apr; 12(2):93–7

Rupture of inflow conduits in the TCI–HeartMate system. Scheld HH, et al. **J Thorac Cardiovasc Surg** 1997 Aug; 114(2):287–9

Activation of coagulation and fibrinolytic pathways in patients with left ventricular assist devices. Spanier T, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1090–7

ECONOMICS

Cost analysis of the Novacor Left Ventricular Assist System as an outpatient bridge to heart transplantation. Arabia FA, et al. **ASAIO J** 1996 Sep–Oct;42(5):M546–9

Strategies for successful reimbursement for investigational circulatory support. Shinn JA. **Prog Cardiovasc Nurs** 1997 Summer;12(3):42–3

STANDARDS

Relationship between pump speed design and hemolysis in an axial flow blood pump. Anai H, et al. **Artif Organs** 1996 Jun;20(6):564–7

Characteristics of a blood pump combining the centrifugal and axial pumping principles: the spiral pump. Andrade A, et al. **Artif Organs** 1996 Jun;20(6):605–12

Flow visualization studies to improve the spiral pump design. Andrade A, et al. **Artif Organs** 1997 Jul;21(7):680–5

Development of the Nimbus/Pittsburgh axial flow left ventricular assist system. Butler K, et al. **Artif Organs** 1997 Jul;21(7):602–10

Subchronic use of the St. Jude centrifugal pump as a mechanical assist device in calves. Curtis J, et al. **Artif Organs** 1996 Jun;20(6):662–5

A teaspoon pump for pumping blood with high hydraulic efficiency and low hemolysis potential. Dame D. **Artif Organs** 1996 Jun;20(6):613–7

Wear–resistant, hemocompatible Ti–Nb–Zr and Zr–Nb alloys to improve blood pump design and performance. Davidson JA, et al. **Artif Organs** 1996 Jun;20(6):513–22 (57 ref.)

Tubular vacuum–powered blood–pumping device with active valves. del Cañizo JF, et al. **Artif Organs** 1996 Jul; 20(7):789–93

Feasibility of an air motor–driven centrifugal blood–pumping system. Forbes SJ, et al. **Artif Organs** 1996 Jul;20(7):783–8

A new blood pump for cardiopulmonary bypass: the HiFlow centrifugal pump. Göbel C, et al. **Artif Organs** 1997 Jul; 21(7):841–5

The method for keeping low perfusion flow weaning from centrifugal pumps: an evaluation of hemolysis in the circulator units. Hachiro Y, et al. **Artif Organs** 1997 Jul; 21(7):710–3

A magnetically suspended and hydrostatically stabilized centrifugal blood pump. Hart RM, et al. **Artif Organs** 1996 Jun;20(6):591–6

Coronary microcirculation during left heart bypass with a centrifugal pump. Hata M, et al. **Artif Organs** 1996 Jun; 20(6):678–80

A newly developed silicone–coated membrane oxygenator for long–term cardiopulmonary bypass and cardiac support. Iida M, et al. **Artif Organs** 1997 Jul;21(7):755–9

Control of centrifugal blood pump based on the motor current. Iijima T, et al. **Artif Organs** 1997 Jul;21(7):655–60

The implantable fuzzy controlled Helmholtz–left ventricular assist device: first in vitro testing. Kaufmann R, et al. **Artif Organs** 1997 Feb;21(2):131–7

Improved flow straighteners reduce thrombus in the NASA/DeBakey axial flow ventricular assist device. Kawahito K, et al. **Artif Organs** 1997 Apr;21(4):339–43

Controller for an axial flow blood pump. Konishi H, et al. **Artif Organs** 1996 Jun;20(6):618–20

Design considerations for bearingless rotary pumps. Kung RT, et al. **Artif Organs** 1997 Jul;21(7):645–50

Evaluation of the wear of the pivot bearing in the Gyro C1E3 pump. Makinouchi K, et al. **Artif Organs** 1996 Jun; 20(6):523–8

A calf model for left ventricular centrifugal mechanical assist. Mann FA, et al. **Artif Organs** 1996 Jun;20(6):670–7

The heart–Hemopump interaction: a study of Hemopump flow as a function of cardiac activity. Meyns B, et al. **Artif Organs** 1996 Jun;20(6):641–9

Development of a new introduction technique for the pulsatile catheter pump. Mihaylov D, et al. **Artif Organs** 1997 May;21(5):425–7

A ferrofluidic seal specially designed for rotary blood pumps. Mitamura Y, et al. **Artif Organs** 1996 Jun;20(6):497–502

Cora rotary pump for implantable left ventricular assist device: biomaterial aspects. Montiès JR, et al. **Artif Organs** 1997 Jul;21(7):730–4

Physiologic control of cardiac assist devices [letter] Murray KD, et al. **Artif Organs** 1997 Jan;21(1):84–6

Wireless monitoring and control for implantable rotary blood pumps. Mussivand T, et al. **Artif Organs** 1997 Jul; 21(7):661–4

Transcutaneous energy transfer with voltage regulation for rotary blood pumps. Mussivand T, et al. **Artif Organs** 1996 Jun;20(6):621–4

Development of a novel centrifugal pump: magnetic rotary pump. Naganuma S, et al. **Artif Organs** 1997 Jul; 21(7):746–50

Comparative hemolysis study of clinically available centrifugal pumps. Naito K, et al. **Artif Organs** 1996 Jun; 20(6):560–3

Effect of pulsatile and nonpulsatile assist on heart and kidney microcirculation with cardiogenic shock. Nakata K, et al. **Artif Organs** 1996 Jun;20(6):681–4

Comparison of the Gyro C1E3 and BioMedicus centrifugal pump performances during cardiopulmonary bypass. Nakazawa T, et al. **Artif Organs** 1997 Jul;21(7):782–5

Study of regional cerebral oxygen saturation during percutaneous cardiopulmonary support. Ninomiya J, et al. **Artif Organs** 1997 Jul;21(7):852–5

Clinical evaluation of pulsatile flow mode of Terumo Capiox centrifugal pump. Nishida H, et al. **Artif Organs** 1997 Jul; 21(7):816–21

Clinical application of a newly developed autoflow control system for the Terumo centrifugal pump: from external control to built–in direct control. Nishida H, et al. **Artif Organs** 1996 Jun;20(6):625–31

Quantitative visualization of flow through a centrifugal blood pump: effect of washout holes. Nishida M, et al. **Artif Organs** 1997 Jul;21(7):720–9

Less blood damage in the impeller centrifugal pump: a comparative study with the roller pump in open heart surgery. Nishinaka T, et al. **Artif Organs** 1996 Jun; 20(6):707–10

A rotary blood pump: its design and development strategy [editorial] Nosé Y. **Artif Organs** 1997 Apr;21(4):263–4

Clinical comparative study of cardiopulmonary bypass with Nikkiso and BioMedicus centrifugal pumps. Ohtsubo S, et al. **Artif Organs** 1996 Jun;20(6):715–20

Magnetically levitated motor for rotary blood pumps. Okada Y, et al. **Artif Organs** 1997 Jul;21(7):739–45

Experiences of postcardiotomy assist: pneumatic ventricular assist device or venoarterial bypass with percutaneous cardiopulmonary support. Orime Y, et al. **Artif Organs** 1996 Jun;20(6):721–3

Study of secondary flow in centrifugal blood pumps using a flow visualization method with a high–speed video camera. Sakuma I, et al. **Artif Organs** 1996 Jun;20(6):541–5

Clinical experience of percutaneous cardiopulmonary support. Sasako Y, et al. **Artif Organs** 1996 Jun;20(6):733–6

Flow measurement at the pump head of centrifugal pumps: comparison of ultrasonic transit time and ultrasonic Doppler systems. Schima H, et al. **Artif Organs** 1997 Jul; 21(7):808–15

Pharmacologically induced heart failure for the evaluation of circulatory assistance. Schmidt C, et al. **Artif Organs** 1996 Jun;20(6):685–8

Renal circulation and cellular metabolism during left ventricular assisted circulation: comparison study of pulsatile and nonpulsatile assists. Sezai A, et al. **Artif Organs** 1997 Jul;21(7):830–5

Clinical experience with the Nikkiso centrifugal pump. Shomura Y, et al. **Artif Organs** 1996 Jun;20(6):711–4

Hemodynamic system analysis of intraarterial microaxial pumps in vitro and in vivo. Siess T, et al. **Artif Organs** 1996 Jun;20(6):650–61

Purge system for rotary blood pumps. Sipin AJ, et al.

Artif Organs 1997 Jul;21(7):611–9

Application of computational fluid dynamics techniques to blood pumps. Sukumar R, et al. **Artif Organs** 1996 Jun; 20(6):529–33

Pump power loss and heat generation in a pivot bearing-supported Gyro centrifugal pump (C1E3). Takami Y, et al. **Artif Organs** 1996 Jul;20(7):794–7

Safety margin of magnetic coupling distance in decoupling of a pivot bearing-supported Gyro centrifugal pump (C1E3). Takami Y, et al. **Artif Organs** 1996 Jul;20(7):817–9

Effect of surface roughness on hemolysis in a pivot bearing supported Gyro centrifugal pump (C1E3). Takami Y, et al. **Artif Organs** 1996 Nov;20(11):1155–61

Mechanical white blood cell damage in rotary blood pumps. Takami Y, et al. **Artif Organs** 1997 Feb;21(2):138–42

Hemolytic effects of surface roughness of a pump housing in a centrifugal blood pump. Takami Y, et al. **Artif Organs** 1997 May;21(5):428–32

Clinical evaluation of the centrifugal pump in open heart surgery: a comparative study of different pumps. Takarabe K, et al. **Artif Organs** 1997 Jul;21(7):760–2

Prediction of hemolysis in turbulent shear orifice flow. Tamagawa M, et al. **Artif Organs** 1996 Jun;20(6):553–9

Basic performance of a miniature intraventricular axial pump. Umezu M, et al. **Artif Organs** 1996 Jun;20(6):689–93

Subchronic centrifugal mechanical assist in an unheparinized calf model. Wagner-Mann C, et al. **Artif Organs** 1996 Jun; 20(6):666–9

Tandem operation of a turbo blood pump (BP-80—type centrifugal pump) to reduce hemolysis. Wakisaka Y, et al. **Artif Organs** 1996 Jun;20(6):572–4

Noninvasive pump flow estimation of a centrifugal blood pump. Wakisaka Y, et al. **Artif Organs** 1997 Jul;21(7):651–4

Long-term evaluation of a nonpulsatile mechanical circulatory support system. Wakisaka Y, et al. **Artif Organs** 1997 Jul;21(7):639–44

Effects of self washout structure on the antithrombogenicity and the hemolytic properties of a centrifugal pump. Wakisaka Y, et al. **Artif Organs** 1997 Feb;21(2):148–53

New mechanism to reduce the size of the monopivot magnetic suspension blood pump: direct drive mechanism. Yamane T, et al. **Artif Organs** 1997 Jul;21(7):620–4

Fluctuations of the hemodynamic derivatives during left ventricular assistance using oscillated blood flow. Yambe T, et al. **Artif Organs** 1996 Jun;20(6):637–40

Extracting 1/f fluctuation from the arterial blood pressure of an artificial heart. Yambe T, et al. **Artif Organs** 1996 Jul;20(7):777–82

Clinical use of centrifugal pumps and the roller pump in open heart surgery: a comparative evaluation. Yoshikai M, et al. **Artif Organs** 1996 Jun;20(6):704–6

Control of the artificial heart. Allen GS, et al. **ASAIO J** 1996 Nov-Dec;42(6):932–7 (75 ref.)

Centrifugal pumps or pulsatile pumps: which have the greater potential for a chronic cardiac assist system? [editorial] Affeld K. **Int J Artif Organs** 1996 Nov;19(11):627–9 (3 ref.)

Primary graft failure after heart transplantation. Successful recovery with pneumatic biventricular assistance. Fernández AL, et al. **Int J Artif Organs** 1996 May; 19(5):307–10

Blood contact with artificial surfaces during BVAD support. Hasper D, et al. **Int J Artif Organs** 1996 Oct;19(10):590–6

A new pulsatile blood pump for adult cardiopulmonary bypass: design criteria and preliminary fluid dynamic evaluation. Inzoli F, et al. **Int J Artif Organs** 1996 Jun; 19(6):359–66

Multi-purpose mechanical circulatory device. Mussivand TV, et al. **Int J Artif Organs** 1997 Apr;20(4):217–21

Preliminary experimental study about the feasibility of combining pulsatile cardiopulmonary support system and a membrane oxygenator. Nakazawa T, et al. **Int J Artif Organs** 1996 Oct;19(10):597–604

Left intraventricular balloon pump optimization during intractable cardiac arrest. Stamatelopoulos SF, et al. **Int J Artif Organs** 1996 Jul;19(7):422–30

A new polymer valve for mechanical circulatory support systems. Suh SW, et al. **Int J Artif Organs** 1996 Dec; 19(12):712–8

Mechanical unloading properties of axial flow pumps and their effect on myocardial stunning. Waldenberger FR, et al. **Int J Artif Organs** 1995 Dec;18(12):766–71

Strange hemodynamic attractor parameter with 1/R total artificial heart automatic control algorithm. Yambe T, et al. **Int J Artif Organs** 1996 May;19(5):302–6

A computer controlled pulsatile pump: preliminary study. Zwarts MS, et al. **Int J Artif Organs** 1996 Dec; 19(12):719–22

STATISTICS & NUMERICAL DATA

The Concerted Action 'Heart' European registry on clinical application of mechanical circulatory support systems: bridge to transplant. The Registry Scientific Committee. Quaini E, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):182–8

TRENDS

Development of a pivot bearing supported sealless centrifugal pump for ventricular assist. Nakazawa T, et al. **Artif Organs** 1996 Jun;20(6):485–90

Can we develop a nonpulsatile permanent rotary blood pump? Yes, we can. Nosé Y, et al. **Artif Organs** 1996 Jun; 20(6):467–74 (28 ref.)

Can we develop a permanent pulsatile rotary blood pump? Yes, we can. Poirier VL. **Artif Organs** 1996 Jun; 20(6):475–80 (3 ref.)

Development of a centrifugal pump with improved antithrombogenicity and hemolytic property for chronic circulatory support. Taenaka Y, et al. **Artif Organs** 1996 Jun;20(6):491–6

Radical alternatives to transplantation. Starling RC. **Curr Opin Cardiol** 1997 Mar;12(2):166–71 (22 ref.)

HEART ATRIUM

see related

ATRIAL FUNCTION

Angiography/interventional case of the day. Fractured central venous catheter. LiPuma JP, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):258, 261–2

Percutaneous removal of a fractured and extruded telectronics accufix atrial retention wire: new approach preserving pacing function. Saito H, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1334–6

Compression of right atrium by traumatic diaphragmatic hernia. D'Cruz IA, et al. **Am Heart J** 1997 Mar; 133(3):380–3

Use of electrocardiogram to position right atrial catheters during surgery. Watters VA, et al. **Ann Surg** 1997 Feb; 225(2):165–71

Renal cell carcinoma with cavitoatrial extension: case report and review of the literature. López Candales A, et al. **Bol Asoc Med P R** 1996 Apr-Jun;88(4–6):42–5 (27 ref.)

Transseptal mitral balloon valvotomy in patients with atrial septal aneurysms. Rittoo D, et al. **Cardiology** 1997 May-Jun;88(3):300–4

Successful lysis of mobile right heart and pulmonary artery thrombi, diagnosis and monitoring by transoesophageal echocardiography [letter] [see comments] Lepper W, et al. **Eur Heart J** 1996 Oct;17(10):1603–4. Comment in: Eur Heart J 1997 Apr;18(4):697.

More on right atrial mobile thrombi [letter; comment] Torbicki A. **Eur Heart J** 1997 Apr;18(4):697. Comment on: Eur Heart J 1996 Oct;17(10):1603–4. Comment on: Eur Heart J 1996 Oct;17(10):1605–6.

Transatrial access for left atrial pressure monitoring in cardiac surgery patients. Zahorec R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):379–80

Atrial infarction: a clinical and electrocardiographic case report. Reisin L, et al. **Heart Lung** 1997 Mar-Apr; 26(2):128–30

A successful treatment for hepatocellular carcinoma with atrial tumor thrombus. Kashima Y, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):1041–5

Hypertrophic cardiomyopathy: value of atrial programmed electrical stimulation in patients with or without syncope with special reference to the role of atrial arrhythmias. Brembilla-Perrot B, et al. **Int J Cardiol** 1997 Mar; 59(1):47–56

Rapid growth of a left atrial myxoma. Serial two-dimensional echocardiographic observation over eighteen months. Iga K, et al. **Int J Cardiol** 1997 Aug 29;61(1):85–7

Coronary artery aneurysmal fistula: a late complication of stent deployment. Karim MA. **Int J Cardiol** 1996 Dec 13; 57(3):207–9

Atrial septostomy under transesophageal guidance in a patient with primary pulmonary hypertension and absent right superior vena cava. Unger P, et al. **Intensive Care Med** 1996 Dec;22(12):1410–1

Continuous monitoring of venous oxygen saturation in critically-ill infants. Ko WJ, et al. **J Formos Med Assoc** 1996 Mar;95(3):258–62

Clofilium-induced block of delayed rectifier type K+ current in atrial tumor cells (AT-1 cells). Bhattacharyya ML, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):301–7

Inverted left atrial appendage: an unrecognized cause of left atrial mass. Allen BS, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):278–80

Migration of implantable cardioverter-defibrillator patch into the right atrium. Mulero E, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):951–2

Migration of central venous catheters: implications for initial catheter tip positioning. Kowalski CM, et al. **J Vasc Interv Radiol** 1997 May-Jun;8(3):443–7

Left atrial myxoma with embolization presenting as an acute infrarenal aortic occlusion. Horn KD, et al. **J Vasc Surg** 1997 Aug;26(2):341–5

Diagnosis of right atrial metastatic melanoma by transesophageal echocardiographic-guided transvenous biopsy. Malouf JF, et al. **Mayo Clin Proc** 1996 Dec; 71(12):1167–70 (14 ref.)

Right atrial thrombus as a complication of total parenteral nutrition in pregnancy. Turrentine MA, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):675–7 (13 ref.)

Intrapericardial left atrial aneurysm: noninvasive diagnosis. Sigfússon G, et al. **Pediatr Cardiol** 1997 May-Jun; 18(3):240–3

Percutaneous retrieval of intracardiopulmonary artery metallic needle (Kirschner's wire): a case report. Aikawa H, et al. **Radiat Med** 1996 Nov-Dec;14(6):335–8

New bipolar leads for the study of atrial arrhythmias. Brenes-Pereira C. **Tex Heart Inst J** 1997;24(2):118–21

[Chronic central cyanosis in children; always an indication for further diagnosis] Zeebregts CJ, et al. **Ned Tijdschr Geneeskd** 1997 Apr 19;141(16):753–5 (Eng. Abstr.) **(Dut)**

[Successful thrombolytic therapy in massive pulmonary embolism and right atrial thrombus—presentation of 2 case reports] Thoma S, et al. **Med Klin** 1996 Nov 15; 91(11):725–8 **(Ger)**

[Livedo racemosa generalisata in atrial myxoma] Rambusch EG, et al. **Z Rheumatol** 1996 Jan-Feb;55(1):58–62 (Eng. Abstr.) **(Ger)**

[Retrieval of intravascular catheter fragment remaining for 15 years—a case report] Toda R, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):51–4 (Eng. Abstr.) **(Jpn)**

[Atypical auricular myxoma and mitral valvulopathy. A rare association (letter)] Abad C, et al. **An Med Interna** 1996 Dec;13(12):616 **(Spa)**

[Mobile thrombus in the right atrium and pulmonary embolism: efficacy of thrombolytic treatment with alteplase (letter)] López-Haldón JE, et al. **Med Clin (Barc)** 1997 Feb 8;108(5):198 **(Spa)**

ABNORMALITIES

Remnants of the right valve of the sinus venosus presenting as a right atrial mass on transthoracic echocardiography. Ducharme A, et al. **Can J Cardiol** 1997 Jun;13(6):573–6

Aorto-left atrial fistula associated with left coronary artery origin anomaly and bicuspid aortic valve and aortic regurgitation: a case report [letter] San M, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):330

Images in cardiovascular medicine. Single atrium. Blanchard DG, et al. **Circulation** 1997 Jan 7;95(1):273

Anomalous coronary artery fistula with simultaneous drainage to the left atrium and the coronary sinus. Lemke P, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):793–5

Comparative assessment of Fontan operation in modifications of atriopulmonary and total cavopulmonary anastomoses. Podzolkov VP, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):458–65

Patient selection for repair of complete atrioventricular canal guided by echocardiography. Santoro G, et al. **Eur J Cardiothorac Surg** 1996;10(6):439–42

Intracardiac repair of lesions associated with atrioventricular discordance. Szufladowicz M, et al. **Eur J Cardiothorac Surg** 1996;10(6):443–8

Surgical treatment of a fistula between the right pulmonary artery and the left atrium: presentation of two cases and review of literature. Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1056–61 (58 ref.)

An anomalous muscle bundle inside the right atrium possibly related to the right venous valve. Victor S, et al. **J Heart Valve Dis** 1997 Jul;6(4):439–40

Coronary arteriovenous fistula. Kar AK, et al. **J Indian Med Assoc** 1996 Feb;94(2):67, 75

Morphologic analysis of common atrioventricular valves in patients with right atrial isomerism. Kawahira Y, et al. **Pediatr Cardiol** 1997 Mar-Apr;18(2):107–11

Right-sided high origin of diaphragm associated with accessory lobe of liver, lobulated right atrial appendage, and ipsilateral phrenic nerve hamartoma: a case report. Kasznica J, et al. **Pediatr Pathol Lab Med** 1997 Jul-Aug; 17(4):653–62

An unusual variation of left ventricular-right atrial communication. Komai H, et al. **Surg Today** 1996; 26(10):825–7

[A surgical case report—rare association of tetralogy of Fallot with cor triatriatum, unroofed coronary sinus and persistent left superior vena cava] Nomura K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):92–5 (Eng. Abstr.) **(Jpn)**

[Right coronary artery-right atrial fistula] Kumamoto H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):787–9 (13 ref.) **(Jpn)**

[Anomalies of the systemic veins and anomalous systemic venous return] Miyamura H. **Ryoikibetsu Shokogun Shirizu** 1996;(13):236–8 (9 ref.) **(Jpn)**

[Anomalous drainage of superior and inferior vena cava into left atrium] Miyamura H. **Ryoikibetsu Shokogun Shirizu** 1996;(13):140–1 (7 ref.) **(Jpn)**

[Left coronary arterial-right atrium fistulae] Nakamura Y. **Ryoikibetsu Shokogun Shirizu** 1996;(12):821–4 (20 ref.) **(Jpn)**

[Common atrium] Park I, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):284–5 (5 ref.) **(Jpn)**

[Tetralogy of Fallot associated with left atrial isomerism] Ferrín LM, et al. **Arq Bras Cardiol** 1996 Oct;67(4):249–53 (Eng. Abstr.) **(Por)**

[Scimitar sign in a partially anomalous pulmonary venous drainage] Carrión Valero F, et al. **An Med Interna** 1997 Feb;14(2):86–8 (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Anatomy and development of the sinoatrial valves in the dogfish (Scyliorhinus canicula). Gallego A, et al. **Anat Rec** 1997 Jun;248(2):224–32

Changes in maternal heart dimensions and plasma atrial natriuretic peptide levels in the early puerperium of normal and pre-eclamptic pregnancies. Pouta AM, et al. **Br J Obstet Gynaecol** 1996 Oct;103(10):988–92

The relationship between the sinus node and the right atrial

appendage. Taylor JR, et al. **Can J Cardiol** 1997 Jan; 13(1):85–92

The role of atrial anatomy in clinical atrial arrhythmias. Lesh MD, et al. **J Electrocardiol** 1996;29 Suppl:101–13 (38 ref.)

[Area reduction effects on atrial fibrillation inducibility] Hosaka H. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun; 45(6):812–20 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Cloning and functional expression of guinea pig atrial alpha 2-adrenergic receptor subtypes. Svensson SP, et al. **Ann N Y Acad Sci** 1997 May 30;812:171–3

Distribution and characterization of rat immunoreactive proadrenomedullin N-terminal 20 peptide (PAMP) and the augmented cardiac PAMP in spontaneously hypertensive rat. Inatsu H, et al. **Biochem Mol Biol Int** 1996 Feb; 38(2):365–72

Correlations between ANP concentrations in atria, plasma and cerebral structures and sodium chloride preference in Wistar rats. Glass H, et al. **Braz J Med Biol Res** 1997 Jan; 30(1):65–8

Type B atrial natriuretic peptide receptor in cardiac myocyte caveolae. Doyle DD, et al. **Circ Res** 1997 Jul;81(1):86–91

Quantitation of diltiazem in human cardiac tissue using high-performance liquid chromatography. Läer S, et al. **J Chromatogr Sci** 1997 Mar;35(3):93–6

Localization of the angiotensin II receptor subtypes in the human atrium. Brink M, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1789–99

CYTOLOGY

Primary culture of human atrial myocytes is associated with the appearance of structural and functional characteristics of immature myocardium. Bénardeau A, et al. **J Mol Cell Cardiol** 1997 May;29(5):1307–20

DRUG EFFECTS

Effect of changes in transmural pressure on contraction frequency of the isolated right atrium of the rabbit. Bolter CP. **Acta Physiol Scand** 1996 Jan;156(1):45–50

Mechanisms of adaptive supersensitivity: correlation of guinea pig atrial supersensitivity with modifications in adenylyl cyclase activity. Roberts MI, et al. **Biochem Pharmacol** 1997 Feb 7;53(3):347–56

Inhibition of muscarinic K+ current in guinea-pig atrial myocytes by PD 81,723, an allosteric enhancer of adenosine binding to A1 receptors. Brandts B, et al. **Br J Pharmacol** 1997 Jul;121(6):1217–23

Mechanical and electrophysiological effects of 8-oxoberberine (JKL1073A) on atrial tissue. Chi JF, et al. **Br J Pharmacol** 1996 Jun;118(3):503–12

(-)-CGP 12177-induced increase of human atrial contraction through a putative third beta-adrenoceptor. Kaumann AJ. **Br J Pharmacol** 1996 Jan;117(1):93–8

Stimulation of cyclic AMP-dependent protein kinase in rat atria by (-)-CGP 12177 through an atypical beta-adrenoceptor. Kaumann AJ, et al. **Br J Pharmacol** 1997 Apr;120(7):1187–9

Stress-induced subsensitivity to catecholamines depends on the estrous cycle. Marcondes FK, et al. **Can J Physiol Pharmacol** 1996 Jun;74(6):663–9

ATP shortens atrial action potential duration in the dog: role of adenosine, the vagus nerve, and G protein. Pelleg A, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):15–22

pH-dependent actions of 4-aminopyridine on atrial repolarization: effects on the transient outward current. Qi A, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):305–12

Influence of the estrous cycle on the sensitivity to catecholamines in right atria from rats submitted to foot-shock stress. Vanderlei LC, et al. **Can J Physiol Pharmacol** 1996 Jun;74(6):670–8

Oral sulfonylurea hypoglycemic agents prevent ischemic preconditioning in human myocardium. Two paradoxes revisited. Cleveland JC Jr, et al. **Circulation** 1997 Jul 1; 96(1):29–32

Verapamil reduces tachycardia-induced electrical remodeling of the atria [see comments] Tieleman RG, et al. **Circulation** 1997 Apr 1;95(7):1945–53. Comment in: Circulation 1997 Apr 1;95(7):1745–8.

Involvement of monoamine oxidase and noradrenaline uptake in the positive chronotropic effects of apigenin in rat atria. Lorenzo PS, et al. **Eur J Pharmacol** 1996 Sep 26; 312(2):203–7

PACAP-38 activates parasympathetic nerves in isolated, blood-perfused dog atria. Yonezawa T, et al. **Eur J Pharmacol** 1996 Nov 21;315(3):289–96

Inhibition by bertosamil of cardiac responses to pinacidil or Bay k 8644 in isolated dog atria and ventricles. Yonezawa T, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):51–8

HOE 694 affords protection versus veratrine contractures in rat atria by Na+ channel blockade. Le Grand B, et al. **Fundam Clin Pharmacol** 1996;10(5):467–73

New inotropic agents: milrinone analogs. Dorigo P, et al. **Gen Pharmacol** 1997 May;28(5):781–8

Influences of changes in calcium concentrations, cocaine and clonidine on the cardiac effect of acetaldehyde in rat isolated atria. Martínez JL, et al. **Gen Pharmacol** 1997 Aug; 29(2):281–4

Influence of hypothermia on the cardiac effects of propranolol observed in isolated rat atria. Melnikov AL, et al. **Gen Pharmacol** 1997 Jan;28(1):55–9

Effects of the dihydropyridine calcium channel blocker amlodipine on ventricular and atrial protein synthesis in an aortic constriction model of hypertension and, following chronic treatment, in the left ventricle of SHR rats. Patel VB, et al. **Int J Cardiol** 1997 Feb;58(3):241–55

Endothelin-1 inhibits L-type Ca2+ current enhanced by isoprenaline in rat atrial myocytes. Delpech N, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):136–43

Electrophysiologic effects of SD-3212, a new class I antiarrhythmic drug, on canine atrial flutter and atrial action-potential characteristics. Fujiki A, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):471–5

Involvement of calcium in the cardiac depressant actions of a garlic dialysate. Martín N, et al. **J Ethnopharmacol** 1997 Jan;55(2):113–8

The pharmacological basis for the use of dried sheep placenta in traditional obstetric practice in Nigeria. Onuaguluchi G, et al. **J Ethnopharmacol** 1996 Oct;54(1):27–36

Biochemical properties and cytochemical localization of ouabain-insensitive, potassium-dependent p-nitrophenylphosphatase activity in rat atrial myocytes. Zinchuk VS, et al. **J Histochem Cytochem** 1997 Feb; 45(2):177–87

Electrophysiological effects of vasoactive intestinal peptide in rabbit atrium: a modulation of acetylcholine activity. Halimi F, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):37–44

Effects of IL-2 on the myocardium. Participation of the sympathetic system. Sterin-Borda L, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2457–65

Effects of class III antiarrhythmic drugs on transient outward and ultra-rapid delayed rectifier currents in human atrial myocytes. Feng J, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):384–92

Sympathetic neurotransmission in isolated rat atria after sensory-motor denervation by neonatal treatment with capsaicin. Rubino A, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):671–5

Basal responses of the L-type Ca2+ and hyperpolarization-activated currents to autonomic agonists in the rabbit sino-atrial node. Zaza A, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):347–55

The action of diazepam on noise-induced alterations in rat atrial tissue: an ultrastructural study. Pellegrini A, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):507–12

Functional classification of P1-purinoceptors in guinea-pig left and right atria: anomalous characteristics of antagonism by cyclopentyltheophylline. Ford WR, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):759–66

Interleukin-1 beta and tumor necrosis factor-alpha inhibit the release of [3H]-noradrenaline from mice isolated atria. Foucart S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun;354(1):1–6

Nonexocytotic noradrenaline release induced by pharmacological agents or anoxia in human cardiac tissue. Kurz T, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun;354(1):7–16

PACAP induces bradycardia in guinea-pig heart by stimulation of atrial cholinergic neurones. Seebeck J, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Oct; 354(4):424–30

Effects of L-carnitine on the hypoxic atria from fed and fasted rats. Varela A, et al. **Rev Esp Fisiol** 1995 Dec; 51(4):201–6

[Chronotropic effects of alpha-agonist on the rat isolated right atria] Nakano K. **Nippon Ika Daigaku Zasshi** 1996 Dec;63(6):473–80 (Eng. Abstr.) **(Jpn)**

EMBRYOLOGY

The dorsal mesocardium and development of the pulmonary veins in human embryos. Bliss DF 2d, et al. **Am J Cardiovasc Pathol** 1995;5(1):55–67

ENZYMOLOGY

Effect of genotype on the angiotensin-converting enzyme mRNA level in human atria. Tamaki S, et al. **Clin Exp Pharmacol Physiol** 1997 May;24(5):305–8

INJURIES

Rare complication of retrograde cardioplegia: inner wall perforation of the right atrium. He GW. **Ann Thorac Surg** 1997 Feb;63(2):539–41

Distribution of peptide-containing neurons in the developing rat right atrium, studied using immunofluorescence and confocal laser scanning. Slavíková J. **Neurochem Res** 1997 Aug;22(8):1013–21

Inadvertent but asymptomatic right atrial perforation with epicardial pacing in a neonate: a rare complication of temporary transvenous cardiac pacing. Reddy SC, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):368–9

Lead explantation late after atrial perforation. Trigano AJ, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1268–9

Diagnosis and treatment of blunt cardiac rupture. Powell MA, et al. **W V Med J** 1997 Mar-Apr;93(2):64–7 (10 ref.)

[Acute relapsing pericarditis induced by screw-in atrial pacing lead. Apropos of 3 cases] Jacques B, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1389–95 (18 ref.) (Eng. Abstr.) **(Fre)**

INNERVATION

Efferent vagal innervation of the canine atria and sinus and atrioventricular nodes. The third fat pad. Chiou CW, et al. **Circulation** 1997 Jun 3;95(11):2573–84

Comparative effects of endothelin and neurotensin on intrinsic cardiac neurons in situ. Armour JA. **Peptides** 1996; 17(6):1047–52

[A study of autonomic innervation of the atrial septum by iso-integral mapping in dogs] Do QB, et al. **Ann Chir** 1996; 50(8):659–66 (Eng. Abstr.) **(Fre)**

METABOLISM

Effects of chronic treatment with losartan and enalaprilat on [3H]-norepinephrine release from isolated atria of Wistar-Kyoto and spontaneously hypertensive rats. Foucart S, et al. **Am J Hypertens** 1996 Jan;9(1):61–9

Polysialylated NCAM expression on endocardial cells of the chick primary atrial septum. Gerety M, et al. **Anat Rec** 1997 Jan;247(1):71–84

Immunocytochemical studies of M2 muscarinic receptors in guinea pig atria and ventricles using anti-peptide antibodies. Zhu L, et al. **Blood Press Suppl** 1996;3:19–21

Noradrenaline release and the effect of endogenous activation of the phospholipase C/protein kinase C signalling pathway in rat atria. Majewski H, et al. **Br J Pharmacol** 1997 Jul; 121(6):1196–202

5-Hydroxytryptamine and beta-adrenoceptors in rat isolated atria. Davy M, et al. **Cell Mol Life Sci** 1997 Mar;53(3):263–6

Antisense oligodeoxynucleotides directed against Kv1.5 mRNA specifically inhibit ultrarapid delayed rectifier K+ current in cultured adult human atrial myocytes. Feng J, et al. **Circ Res** 1997 Apr;80(4):572–9

A novel membrane receptor with high affinity for lysosphingomyelin and sphingosine 1-phosphate in atrial myocytes. Bünemann M, et al. **EMBO J** 1996 Oct 15; 15(20):5527–34

Angiotensin II-receptor subtypes in human atria and evidence for alterations in patients with cardiac dysfunction [see comments] Rogg H, et al. **Eur Heart J** 1996 Jul; 17(7):1112–20. Comment in: Eur Heart J 1996 Jul;17(7):978–80.

Molecular and functional characterization of a 5-HT4 receptor cloned from human atrium. Blondel O, et al. **FEBS Lett** 1997 Aug 4;412(3):465–74

Effect of rapid intra-atrial saline infusion on atrial pressures and atrial natriuretic hormone secretion. Shenker Y, et al. **Horm Metab Res** 1997 Jan;29(1):33–7

Hypoxia stimulates atrial natriuretic peptide gene expression in cultured atrial cardiocytes. Chen YF, et al. **Hypertension** 1997 Jan;29(1 Pt 1):75–82

Clonidine and ST-91 may activate imidazoline binding sites in the heart to release atrial natriuretic peptide. Mukaddam-Daher S, et al. **Hypertension** 1997 Jul;30(1 Pt 1):83–7

cGMP-stimulated cyclic nucleotide phosphodiesterase regulates the basal calcium current in human atrial myocytes. Rivet-Bastide M, et al. **J Clin Invest** 1997 Jun 1;99(11):2710–8

Dual effect of digitalis glycosides on norepinephrine release from human atrial tissue and bovine adrenal chromaffin cells: differential dependence on [Na+]i and [Ca2+]i. Haass M, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1615–27

Differential localization and development-dependent expression of G-protein subunits, Go alpha and G beta, in rabbit heart. Kawai Y, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1555–64

Sarcoplasmic reticulum calcium uptake in human myocardium subjected to ischemia and reperfusion during cardiac surgery. Zucchi R, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1693–701

Facilitation of T-type calcium current in bullfrog atrial cells: voltage-dependent relief of a G protein inhibitory tone. Alvarez JL, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):321–34

Beta 2-adrenoceptor activation by zinterol causes protein phosphorylation, contractile effects and relaxant effects through a cAMP pathway in human atrium. Kaumann AJ, et al. **Mol Cell Biochem** 1996 Oct-Nov;163-164:113–23

MICROBIOLOGY

Right atrial mass due to fungal endocarditis in an infant. Kothari SS, et al. **Indian Pediatr** 1996 Jul;33(7):593–5

PATHOLOGY

Contribution of left atrial pressure and dimension to signal-averaged P-wave duration in patients with chronic congestive heart failure. Faggiano P, et al. **Am J Cardiol** 1997 Jan 15;79(2):219–22

Lipomatous hypertrophy ("massive fatty deposits") of the interatrial septum [letter; comment] Devine WA, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):107–8. Comment on: Am J Forensic Med Pathol 1996 Mar;17(1):43–8.

Lipomatous hypertrophy of the cardiac interatrial septum. López-Beltrán A, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):206–7

Hepatocellular carcinoma with intraatrial extension. Boiskin I, et al. **Cardiovasc Intervent Radiol** 1997 Jul-Aug; 20(4):324–7

Fibrosis of atria and great vessels in response to angiotensin II or aldosterone infusion. Sun Y, et al. **Cardiovasc Res**

1997 Jul;35(1):138–47

Histological substrate of atrial biopsies in patients with lone atrial fibrillation. Frustaci A, et al. **Circulation** 1997 Aug 19;96(4):1180–4

Left atrial size is the major predictor of cardiac death and overall clinical outcome in patients with dilated cardiomyopathy: a long–term follow–up study. Modena MG, et al. **Clin Cardiol** 1997 Jun;20(6):553–60

Fine–needle aspiration of a primary right atrial myxoma [see comments] Layfield LJ, et al. **Diagn Cytopathol** 1996 Mar; 14(2):162–4. Comment in: Diagn Cytopathol 1996 Dec;1595):455–6.

Left atrial thrombus in heart transplant recipients [letter; comment] Fernández González AL, et al. **Eur Heart J** 1996 Nov;17(11):1756–7. Comment on: Eur Heart J 1995 Jan;16(1):120–5.

Lipomatous hypertrophy of the atrial septum: complementary diagnosis by transoesophageal echocardiography and nuclear magnetic resonance imaging [letter] Muñoz J, et al. **Eur Heart J** 1996 Aug;17(8):1290–1

Surgery for hepatocellular carcinoma with tumor thrombus in the right atrium. Iemura J, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):824–5

Whether configuration of P wave really suggests atrial hypertrophy! [letter] Mittal SR, et al. **Indian Heart J** 1996 Jul–Aug;48(4):428

Invasive thymoma extending to the right atrium: excision without cardiopulmonary bypass. Gleeson RE, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):429–31

Bilateral atrial tumors––report of an elderly man with a heavily calcified left atrial tumor. Nakajima O, et al. **Jpn Circ J** 1996 Sep;60(9):715–8

Atria and ventricles of copper–deficient rats exhibit similar hypertrophy and similar altered biochemical characteristics. Lear PM, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):377–85

[Surgical treatment of renal carcinoma with tumor thrombus extending into the right heart atrium] Morávek P, et al. **Rozhl Chir** 1996 Dec;75(12):603–6 (Eng. Abstr.) **(Cze)**

[Polypoid ulcerating endocarditis aortalis caused by Streptococcus viridans with perforation of the right atrium. Pathology and clinical aspects of 2 autopsy cases] Poremba C, et al. **Pathologe** 1996 Sep;17(5):391–5 (Eng. Abstr.) **(Ger)**

[Isolated atrial noninversion] Yoshii S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):508–11 (9 ref.) **(Jpn)**

PHYSIOLOGY

Mechanisms of release of atrial natriuretic factor in vivo. Ledsome JR, et al. **Adv Exp Med Biol** 1995;381:175–86

Atrial receptors and heart volumes. Linden RJ. **Adv Exp Med Biol** 1995;381:125–34 (52 ref.)

Patterns of Doppler–measured blood flow velocity in the normal and fibrillating human left atrial appendage. Fatkin D, et al. **Am Heart J** 1996 Nov;132(5):995–1003

Restoring forces assessed with left atrial pressure clamps. Bell SP, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1015–20

A high–resolution esophageal electrocardiogram for monitoring atrial activity in the hypothermic potassium–arrested heart. Maechler HE, et al. **Anesth Analg** 1997 Mar;84(3):484–90

Study of the effect of atrial contraction on mitral prosthetic valve by high speed video camera. Naemura K, et al. **Artif Organs** 1997 Apr;21(4):300–5

Characteristics of restitution kinetics in repolarization of rabbit atrium. Qi A, et al. **Can J Physiol Pharmacol** 1997 Apr;75(4):255–62

Atrial inputs as determinants of atrioventricular nodal conduction: re–evaluation and new concepts. Scherlag BJ, et al. **Cardiologia** 1995 Oct;40(10):753–61

Analysis of mechanical restitution and post–rest potentiation in isolated rat atrium. Wu SN, et al. **Chin J Physiol** 1996; 39(1):23–9

Different compartments of sarcoplasmic reticulum participate in the excitation–contraction coupling process in human atrial myocytes. Hatem SN, et al. **Circ Res** 1997 Mar; 80(3):345–53

Characterization of gap junction channels in adult rabbit atrial and ventricular myocardium. Verheule S, et al. **Circ Res** 1997 May;80(5):673–81

Video imaging of atrial defibrillation in the sheep heart. Gray RA, et al. **Circulation** 1997 Feb 18;95(4):1038–47

Withdrawal of acetylcholine elicits Ca2+–induced delayed afterdepolarizations in cat atrial myocytes. Wang YG, et al. **Circulation** 1997 Aug 19;96(4):1275–81

High–rate cardiac pacing increases blood pressure and decreases right atrial pressure in patients with hemodynamic significant acute right ventricular myocardial infarction and bradyarrhythmia. Vrouchos GT, et al. **Clin Cardiol** 1997 Jan;20(1):41–6

The wavelength dependence of optically recorded action potentials in the atrial muscles of the bullfrog (Rana catesbeiana). Fujishiro N, et al. **Comp Biochem Physiol A Physiol** 1996 Jun;114(2):153–7

Atrial natriuretic factor secretion: a role for atrial systolic ejection force? Geny B, et al. **Eur J Appl Physiol** 1996; 72(5–6):440–4

The shape of human atrial action potential accounts for different frequency–related changes in vitro. Dawodu AA, et al. **Int J Cardiol** 1996 Jun;54(3):237–49

Left atrial appendage blood flow in a case of persistent atrial standstill. Lin JM, et al. **Int J Cardiol** 1996 Nov 15; 57(1):97–9

Left atrial size in hypertensive men: influence of obesity, race and age. Department of Veterans Affairs Cooperative Study Group on Antihypertensive Agents. Gottdiener JS, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):651–8

Influence of left atrial pressure on left atrial appendage flow velocity patterns in patients in sinus rhythm. Tabata T, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):857–64

High–resolution fluorescent imaging does not reveal a distinct atrioventricular nodal anterior input channel (fast pathway) in the rabbit heart during sinus rhythm. Efimov IR, et al. **J Cardiovasc Electrophysiol** 1997 Mar; 8(3):295–306

Orthotopic heart transplantation hemodynamics: does atrial preservation improve cardiac output after transplantation? el–Gamel A, et al. **J Heart Lung Transplant** 1996 Jun; 15(6):564–71

Cholinergic short–term conditioning and activation of ATP–sensitive K+ current in cat atrial myocytes. Lipsius SL, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):907–14

Developmental differences and regional similarities in the responses of rat cardiac skinned muscles to acidosis, inorganic phosphate and caffeine. Palmer S, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):797–805

Effects of exogenous neuropeptide Y on automaticity of isolated Purkinje fibers and atrium. Sosunov EA, et al. **J Mol Cell Cardiol** 1996 May;28(5):967–75

The shape of indicator dilution curves used for cardiac output measurement in man. Band DM, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):225–9

Calcium gradients during excitation–contraction coupling in cat atrial myocytes. Hüser J, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):641–51

One–dimensional modelling of the vulnerability to re–entry of homogeneous atrial tissue. Zhang H, et al. **J Theor Biol** 1997 Jan 21;184(2):117–22

Optical mapping of conduction patterns of normal and tachycardia–like excitations in the rat atrium. Sakai T, et al. **Jpn J Physiol** 1997 Apr;47(2):179–88

Effects of hypoxia, simulated ischemia and reoxygenation on the contractile function of human atrial trabeculae. Lammerich A, et al. **Mol Cell Biochem** 1996 Jul–Aug; 160–161:143–51

Accidental atrial and ventricular stimulation by pacemaker event marker. Böhm A, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1367–8

L–type calcium current in pediatric and adult human atrial myocytes: evidence for developmental changes in channel inactivation. Roca TP, et al. **Pediatr Res** 1996 Sep; 40(3):462–8

[Use of body surface heart potential mapping for registration of electrical phenomenal in the atrium] Kalka D, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):234–41 (Eng. Abstr.) **(Pol)**

[The course of transauricular electric stimulation prevents disruption of cardiac contractile function caused by myocardial infarct in rats] Belkina LM, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):568–71 **(Rus)**

PHYSIOPATHOLOGY

Left atrial function and atrial natriuretic factor/cyclic guanosine monophosphate changes in DDD and VVI pacing modes. Theodorakis GN, et al. **Am J Cardiol** 1997 Feb 1;79(3):366–70

Contribution of the ventricles and the atrial appendages to the elevation of plasma atrial natriuretic factor (ANF) during pacing–induced heart failure in conscious dogs. Shen W, et al. **Basic Res Cardiol** 1996 Jul–Aug;91(4):319–28

Interference of mitral valve stenosis with left ventricular diastole and left atrial appendage flow. Lin JM, et al. **Cardiology** 1996 Nov–Dec;87(6):537–44

Stroke in paced patients with sick sinus syndrome: relevance of atrial mechanical function, pacing mode and clinical characteristics. Mattioli AV, et al. **Cardiology** 1997 May–Jun;88(3):264–70

The relationship between functional class, pulmonary artery pressure and size in left atrial myxoma. Nakano T, et al. **Cardiovasc Surg** 1996 Jun;4(3):320–3

Use of temporary atrial pacing in management of patients after cardiac surgery. Takeda M, et al. **Cardiovasc Surg** 1996 Oct;4(5):623–7

Contraction–excitation feedback in human atrial fibrillation. Antoniou A, et al. **Clin Cardiol** 1997 May;20(5):473–6

Mechanism of left atrial enlargement related to ventricular diastolic impairment in hypertension. Matsuda M, et al. **Clin Cardiol** 1996 Dec;19(12):954–9

Activation of atria in chronic atrial fibrillation is not a random phenomenon in man [editorial; comment] Brembilla–Perrot B. **Eur Heart J** 1997 Feb;18(2):186–7. Comment on: Eur Heart J 1997 Feb;18(2):290–310.

Epicardial right atrial free wall mapping in chronic atrial fibrillation. Documentation of repetitive activation with a focal spread––a hitherto unrecognised phenomenon in man [see comments] Holm M, et al. **Eur Heart J** 1997 Feb; 18(2):290–310. Comment in: Eur Heart J 1997 Feb;18(2):186–7.

Assessment of left ventricular end–diastolic pressure by Doppler echocardiography: contribution of duration of pulmonary venous versus mitral flow velocity curves at atrial contraction. Yamamoto K, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb;10(1):52–9

Biatrial appendage hypertrophy but not ventricular hypertrophy: a unique feature of canine pacing–induced heart failure. Moe GW, et al. **J Card Fail** 1996 Jun; 2(2):127–32

Intra–atrial reentrant tachycardia after palliation of congenital heart disease: characterization of multiple macroreentrant circuits using fluoroscopically based three–dimensional endocardial mapping. Triedman JK, et al. **J Cardiovasc Electrophysiol** 1997 Mar;8(3):259–70

Time interval determination from left atrial appendage ejection flow in patients with mitral stenosis. Okamoto M, et al. **J Clin Ultrasound** 1997 Mar–Apr;25(3):97–102

P wave morphology during atrial pacing along the atrioventricular ring. ECG localization of the site of origin of retrograde atrial activation. Fitzgerald DM, et al. **J Electrocardiol** 1996 Jan;29(1):1–10

High–density endocardial activation mapping of the right atrium in three dimensions by composition of multielectrode catheter recordings. Triedman JK, et al. **J Electrocardiol** 1996;29 Suppl:234–40

The left atrium in hypertension, an appendage often forgotten. Lip GY. **J Hum Hypertens** 1997 Mar;11(3):145–7 (33 ref.)

Tsutsugamushi myocarditis with congestive heart failure and persistent atrial standstill. Jeong MH, et al. **Jpn Circ J** 1996 Jun;60(6):382–8

Splitting of high right atrial potentials in atrial flutter with rapid pacing. Tanoiri T, et al. **Jpn Circ J** 1995 Dec; 59(12):775–85

Diagnosis of retrograde ventriculoatrial conduction by left atrial appendage Doppler flow analysis. Bhagwat AR, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1257–9

Maintenance of atrial fibrillation in anesthetized and unanesthetized sheep using cholinergic drive. Geddes LA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):165–75

Atrial electrophysiological features in patients with Wolff–Parkinson–White and atrial fibrillation: absence of rate adaptation of intraatrial conduction time parameters. Riccardi R, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1318–27

Comparison of bipolar atrial electrogram amplitude in sinus rhythm, atrial fibrillation, and atrial flutter. Wood MA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):150–6

[Use of esophageal atrial electrogram and an external Thera VDD pacemaker in atrial–triggered ventricular pacing in acute myocardial infarction complicated by total AV block and low cardiac output] Manfredini R, et al. **G Ital Cardiol** 1996 Nov;26(11):1291–4 (Eng. Abstr.) **(Ita)**

[Characteristics of atrial activation sequence of atrial fibrillation and flutter in a canine model] Sugimoto T. **Nippon Ika Daigaku Zasshi** 1996 Apr;63(2):140–53 (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Value of cardiac ultrafast computed tomography for detecting right atrial thrombi in chronic atrial fibrillation. Kitayama H, et al. **Am J Cardiol** 1997 May 1;79(9):1292–5

Role of atrial ischaemia in development of atrial fibrillation following coronary artery bypass surgery. Kolvekar S, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):70–5

[Scimitar sign in a partially anomalous pulmonary venous drainage] Carrión Valero F, et al. **An Med Interna** 1997 Feb;14(2):86–8 (Eng. Abstr.) **(Spa)**

SECRETION

The effect of non–depolarizing neuromuscular blocking agents on the release of acetylcholine from the right atrium of the guinea pig. Manabe N. **Acta Med Okayama** 1997 Feb;51(1):13–8

SURGERY

Status of survivors after atrial redirection for transposition of the great arteries: a complete long–term follow–up. Gilljam T, et al. **Acta Paediatr** 1996 Jul;85(7):832–7

Surgical implications in hearts with isomeric atrial appendages. Uemura H, et al. **Adv Card Surg** 1996;7:101–35 (33 ref.)

Intraatrial baffle repair of isolated ventricular inversion with left atrial isomerism. McElhinney DB, et al. **Ann Thorac Surg** 1996 Nov;62(5):1529–32 (12 ref.)

Alternative technique for the ostium primum defect repair: a free wall flap of right atrium. Massetti M, et al. **Ann Thorac Surg** 1997 Jun;63(6):1803–4

Correction of left superior vena cava draining to the left atrium using extracardiac techniques. Reddy VM, et al. **Ann Thorac Surg** 1997 Jun;63(6):1800–2

Modified biatrial approach for the surgical excision of left atrial myxomas. St Rammos K. **Ann Thorac Surg** 1997 Jul; 64(1):274–5

Right atrial separation for chronic atrial fibrillation with atrial septal defects. Sueda T, et al. **Ann Thorac Surg** 1997 Aug; 64(2):541–2

Management of retrohepatic venous injuries with atrial caval shunts. Weber S, et al. **AORN J** 1996 Sep;64(3):376–7, 380–2 (14 ref.)

Atrial septal puncture for balloon mitral valvotomy [letter] Chow WH, et al. **Cathet Cardiovasc Diagn** 1995 Dec; 36(4):380

Late surgical fenestration for complications after the Fontan operation. Rychik J, et al. **Circulation** 1997 Jul 1;96(1):33–6

HEART ATRIUM

Inhibition of atrial fibrillation by pulmonary vein isolation and auricular resection—experimental study in a sheep model. Fieguth HG, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):714–21

Extended operation for non-small cell lung cancer invading great vessels and left atrium. Fukuse T, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):664–9

Intramural right atrial myocardial hemangioma treated by emergency surgery. Hangler HB, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):782–4

Asymptomatic right atrial aneurysm: fortuitous finding and resection. Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):591–3 (8 ref.)

Interventional atrioseptostomy by application of monopolar high-frequency alternating current. In vitro evaluation of a new device. Grabitz RG, et al. **Invest Radiol** 1997 Feb; 32(2):90–3

Surgical removal of heartworms from the right atrium of a cat. Borgarelli M, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):68–9

Inverted T-shaped biatral incision for large left atrial myxoma. Morishita K, et al. **J Card Surg** 1997 Mar–Apr; 12(2):112–5

Intraatrial rerouting in left isomerism and late complications. Yaku H, et al. **Jpn Heart J** 1997 Mar;38(2):291–5

Right atrial separation procedure for eliminating chronic atrial fibrillation associated with atrial septal defect. Sueda T, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1870–3

Neurological outcome in a porcine model of descending thoracic aortic surgery. Left atrial–femoral artery bypass versus clamp/repair. Maharajh GS, et al. **Stroke** 1996 Nov; 27(11):2095–100; discussion 2101

Is it necessary to use venous–right atrial bypass in orthotopic liver transplantation? [letter] Katz E, et al. **Transplantation** 1997 Sep 15;64(5):792

Venous–right atrial bypass for superior vena cava thrombosis during orthotopic liver transplantation. Pinna AD, et al. **Transplantation** 1997 Feb 15;63(3):471–2

[Treatment and prognosis of tachyarrhythmia after atrial surgical repair of transposition of great vessels] Villain E, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):851–6 (Eng. Abstr.) **(Fre)**

[Spiral CT and 3-dimensional reconstruction in evaluation of systemic venous obstruction after atrial switch operation for complete transposition of great vessels] Kaemmerer H, et al. **Z Kardiol** 1996 Oct;85(10):790–7 (Eng. Abstr.) **(Ger)**

[The combined resection of left atrium for advanced lung cancer on cardiopulmonary bypass: a case report] Kugai T, et al. **Kyobu Geka** 1996 Aug;49(9):738–41 (41 ref.) (Eng. Abstr.) **(Jpn)**

[An operative case of bilateral partial anomalous pulmonary venous return using a direct anastomosis between the right atrial appendage and the superior vena cava] Sakurai H, et al. **Kyobu Geka** 1996 Sep;49(10):851–4 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Improved Doppler echocardiographic assessment of the left atrial appendage by peripheral vein injection of sonicated albumin microbubbles. Yao SS, et al. **Am Heart J** 1997 Apr;133(4):400–5

Effect of left atrial size on recurrence of atrial fibrillation after electrical cardioversion: atrial dimension versus volume. Volgman AS, et al. **Am J Card Imaging** 1996 Oct; 10(4):261–5

Importance of left atrial appendage function as a risk factor for systemic thromboembolism in patients with rheumatic mitral valve disease. Li YH, et al. **Am J Cardiol** 1996 Oct 1;78(7):844–7

Evaluation of left atrial appendage anatomy and function in recent-onset atrial fibrillation by transesophageal echocardiography. Rubin DN, et al. **Am J Cardiol** 1996 Oct 1;78(7):774–8

Echocardiographic features of left atrium in elite male athletes. Toutouzas K, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1314–7

Left atrial spontaneous echo contrast in asymptomatic patients with a mechanical valve prosthesis [see comments] Lee TM, et al. **Ann Thorac Surg** 1996 Dec;62(6):1790–5. Comment in: Ann Thorac Surg 1997 Jun;63(6):1826–7.

Recanalization of the left atrial appendage demonstrated by transesophageal echocardiography. Lynch M, et al. **Ann Thorac Surg** 1997 Jun;63(6):1774–5

Remnants of the right valve of the sinus venosus presenting as a right atrial mass on transthoracic echocardiography. Ducharme A, et al. **Can J Cardiol** 1997 Jun;13(6):573–6

Role of transesophageal echocardiography in the management of metastatic tumors invading the left atrium. Lee TM, et al. **Cardiology** 1997 Mar–Apr;88(2):214–7

Left atrial appendage flow velocity and spontaneous echo contrast in patients with rheumatic mitral stenosis: a multiplane transesophageal echocardiographic study. Ho HY, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1995 Dec; 56(6):380–5

Images in cardiovascular medicine. Single atrium. Blanchard DG, et al. **Circulation** 1997 Jan 7;95(1):273

Right atrial thrombus presenting in a patient with heart failure and disseminated intravascular coagulation [letter] [see comments] Lo SS, et al. **Eur Heart J** 1996 Oct; 17(10):1605–6. Comment in: Eur Heart J 1997 Apr;18(4):697.

Large left atrial thrombus mimicking atrial myxoma: successful treatment with anticoagulant therapy [letter] Morelli S, et al. **Eur Heart J** 1996 Aug;17(8):1290

Transesophageal echocardiography in the presence of left atrial calcification. Goel AK, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):677–9

Influence of aging on left atrial appendage flow velocity patterns in normal subjects. Tabata T, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):274–80

Assessment of left atrial operative mean stiffness using simultaneous recordings of left ventricular pressure and M-mode echocardiography of the left atrium and mitral valve. Tomita M, et al. **J Cardiol** 1997 Aug;30(2):89–96

An unusual echo-free space between the great vessels and left atrium. Shanewise JS. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):113–4

Persistence of left atrial spontaneous echocardiographic contrast after percutaneous mitral valvulotomy: a study in the Turkish population. Sarikamis C, et al. **J Heart Valve Dis** 1997 Mar;6(2):160–5

Diagnosis of right coronary artery to right atrial fistula in a dog using two-dimensional echocardiography. Jacobs GJ, et al. **J Small Anim Pract** 1996 Aug;37(8):387–90

Some considerations on the measurements of mean frequency shift and integrated backscatter following administration of Albunex. Wang SH, et al. **Ultrasound Med Biol** 1996; 22(4):441–51

Doppler analysis of pulmonary venous flow profiles in orthotopic heart transplant recipients: a comparison with mitral flow profiles and atrial function. Spes CH, et al. **Z Kardiol** 1996 Oct;85(10):753–60

[Right atrial, non-hereditary myxoma as differential diagnosis in increasing dyspnea. Echocardiography diagnosis (clinical conference)] Glattki GP, et al. **Med Klin** 1996 Aug 15; 91(8):509–14 **(Ger)**

[Embolism in left-atrial thrombi (ELAT Study): are spontaneous echo contrast, thrombi in the left atrium/appendage and size of the left atrial appendage predictors of possible embolisms?] Stöllberger C, et al. **Wien Med Wochenschr** 1997;147(2):46–51 (Eng. Abstr.) **(Ger)**

[Clinical value of multiplane transesophageal echocardiography in the diagnosis of lipomatous hypertrophy of the interatrial septum. Report of two clinical cases] Galzerano D, et al. **Minerva Cardioangiol** 1996 Jun;44(6):313–7 (Eng. Abstr.) **(Ita)**

[Correlations between left atrial size and parameters of averaged atrial signal in patients with paroxysmal atrial fibrillation in the course of ischemic heart diseases] Banasiak W, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):95–8 (Eng. Abstr.) **(Pol)**

ULTRASTRUCTURE

Calcium gradients during excitation–contraction coupling in cat atrial myocytes. Hüser J, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):641–51

The action of diazepam on noise-induced alterations in rat atrial tissue: an ultrastructural study. Pellegrini A, et al. **J Submicrosc Cytol Pathol** 1996 Oct;28(4):507–12

[Effect of boron on the ultrastructure of parathyrocytes and atrial cardiomyocytes] Korolev IuN, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):111–4 **(Rus)**

HEART AUSCULTATION

see related

PHONOCARDIOGRAPHY

The rational clinical examination: detecting abnormal systolic murmurs [letter; comment] Ali Y. **JAMA** 1997 May 28; 277(20):1594. Comment on: JAMA 1997 Feb 19;277(7):564–71.

The rational clinical examination: detecting abnormal systolic murmurs [letter; comment] Fosnocht KM. **JAMA** 1997 May 28;277(20):1593–4; discussion 1594. Comment on: JAMA 1997 Feb 19;277(7):564–71.

Recognizing normal heart murmurs: a logic-based mnemonic. Sapin SO. **Pediatrics** 1997 Apr;99(4):616–9

Multimedia instruction of cardiac auscultation. Criley JM, et al. **Trans Am Clin Climatol Assoc** 1996;108:271–84; discussion 284–5

HISTORY

Joseph Leopold Auenbrugger (1722–1809). Davies MK, et al. **Heart** 1997 Aug;78(2):102

METHODS

Intermittent auscultation for the intrapartum assessment of fetal well-being in Western Australia. Gilles MT, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):143–8

STANDARDS

Cardiac auscultatory skills of internal medicine and family practice trainees. A comparison of diagnostic proficiency. Mangione S, et al. **JAMA** 1997 Sep 3;278(9):717–22

HEART BLOCK

Conduction block and chaotic dynamics in an asymmetrical model of coupled cardiac cells. Landau M, et al. **J Theor Biol** 1997 May 7;186(1):93–105

[Atrioventricular dissociation] Hata T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):494–5 (8 ref.) **(Jpn)**

[His bundle block] Mitamura H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):448–50 (8 ref.) **(Jpn)**

[Atrio-ventricular block] Yamashita H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):509–12 **(Jpn)**

[Paroxysmal A–V block] Yamashita H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):526–8 (4 ref.) **(Jpn)**

[Kidney transplantation with donors in heart block. Long-term results] Serrallach Mila N, et al. **Arch Esp Urol** 1996 Dec;49(10):1021–7 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Effects of verapamil, propranolol, and procainamide on adenosine-induced negative dromotropism in human beings. Lai WT, et al. **Am Heart J** 1996 Oct;132(4):768–75

Cardiac dysrhythmias in severe verapamil overdose: characterization with a canine model. Thomas SH, et al. **Eur J Emerg Med** 1996 Mar;3(1):9–13

Fluphenazine decanoate causing atrioventricular block. Rao AV. **Indian Heart J** 1996 Nov–Dec;48(6):713–4

Ventricular tachycardia following organophosphorus poisoning. Abraham G, et al. **J Assoc Physicians India** 1995 Feb;43(2):143

Pharmacologic agents inducing electrocardiac conduction delays. Abdulla R. **Pediatr Cardiol** 1997 May–Jun;18(3):196

Atrioventricular block after administration of atropine in patients following cardiac transplantation. Brunner-La Rocca HP, et al. **Transplantation** 1997 Jun 27;63(12):1838–9

[Does stopping of oral feeding favour the occurrence of auriculoventricular block in premature infants treated with diphemanil?] Guérois M, et al. **Arch Pediatr** 1997 Feb; 4(2):158–62 (Eng. Abstr.) **(Fre)**

[Mobitz type II atrioventricular block as a side effect of pentoxifylline] Kalinina NN, et al. **Klin Med (Mosk)** 1996; 74(3):59 **(Rus)**

[Mobitz I after accidental ingestion of eyedrops (letter)] Martínez-Albaladejo M, et al. **An Med Interna** 1996 Jul; 13(7):359–60 **(Spa)**

CLASSIFICATION

[Classification and pitfalls of atrioventricular blocks] Motté G, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90 Spec No 1:47–55 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Cardiac abnormalities and cytosine–thymine–guanine trinucleotide repeats in myotonic dystrophy. Hayashi Y, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):292–7

Incidence of induced atrial fibrillation/flutter in complete atrioventricular block. A concept of 'atrial-malfunctioning' atrio-hisian block. Yamashita T, et al. **Circulation** 1997 Feb 4;95(3):650–4

Extracorporeal shock wave lithotripsy in a patient with complete atrioventricular heart block. Pertek JP, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):458–60

Delayed unexplained capture failure [letter] Gupta A, et al. **Indian Heart J** 1996 Jul–Aug;48(4):429

Familial progressive cardiac conduction disorder and multiple exostoses. Atiq M, et al. **JPMA J Pak Med Assoc** 1997 Jun;47(6):169–72

A case of dilated cardiomyopathy with abnormal atrioventricular conduction 5 years before the appearance of left ventricular systolic dysfunction. Fukui R, et al. **Jpn Circ J** 1997 Apr;61(4):353–7

Cochlear implantation in a pacemaker patient. Triglia JM, et al. **Laryngoscope** 1996 Sep;106(9 Pt 1):1184–6

Narrow QRS tachycardia with atrioventricular block. Kantoch MJ, et al. **Pacing Clin Electrophysiol** 1996 Sep; 19(9):1386–7

Syncope due to advanced atrioventricular block despite no demonstrable cardiac disease. Kosinski D, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):997–8

Ventricular standstill and percussion [editorial; comment] Sandoe E. **Resuscitation** 1996 Jul;32(1):3–4. Comment on: Resuscitation 1996 Jul;32(1):31–2.

Ventricular standstill and cardiac percussion [letter] Weston CF. **Resuscitation** 1997 Aug;35(1):88

[The cardiac and neurological manifestations of Lyme borreliosis in congenital first-degree AV block] Stille-Siegener M, et al. **Dtsch Med Wochenschr** 1996 Oct 18;121(42):1292–6 (18 ref.) (Eng. Abstr.) **(Ger)**

[Disorders of intraventricular conduction in the course of acute myocardial infarct: frequency of occurrence, clinical significance, indications and role of electrical therapy] Berisso MZ, et al. **G Ital Cardiol** 1997 Aug;27(8):840–7 (40 ref.) **(Ita)**

[Atrial tachycardia with block] Atarashi H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):483–5 (5 ref.) **(Jpn)**

[Complete atrioventricular block in Kearns–Sayre syndrome] Villacorta H, et al. **Arq Bras Cardiol** 1996 Aug;67(2):107–8 (Eng. Abstr.) **(Por)**

[The prognostic significance of complete atrioventricular block in patients with acute inferior myocardial infarct. A study in the era thrombolytics] Melgarejo Moreno A, et al. **Rev Esp Cardiol** 1997 Jun;50(6):397–405 (Eng. Abstr.)

(Spa)

CONGENITAL

Anti-Ro (SSA) and anti-La (SSB) antibodies and complete congenital heart block. Finkelstein Y, et al. **Ann Med Interne (Paris)** 1997;148(3):205–8 (60 ref.)

Congenital heart block: HLA differences between affected children and healthy siblings in four Finnish families. Sirén MK, et al. **APMIS** 1997 Jun;105(6):463–8

Cardiac expression of 52beta, an alternative transcript of the congenital heart block-associated 52-kd SS-A/Ro autoantigen, is maximal during fetal development. Buyon JP, et al. **Arthritis Rheum** 1997 Apr;40(4):655–60

Monozygotic twins discordant for congenital complete heart block. Cooley HM, et al. **Arthritis Rheum** 1997 Feb; 40(2):381–4

Arrhythmogenicity of IgG and anti-52-kD SSA/Ro affinity-purified antibodies from mothers of children with congenital heart block. Boutjdir M, et al. **Circ Res** 1997 Mar;80(3):354–62

The expression of human endogenous retrovirus-3 in fetal cardiac tissue and antibodies in congenital heart block. Li JM, et al. **Clin Exp Immunol** 1996 Jun;104(3):388–93

Management with a staged approach of the premature hydropic fetus due to complete congenital heart block. Deloof E, et al. **Eur J Pediatr** 1997 Jul;156(7):521–3

Outcome of isolated congenital heart block diagnosed in utero [letter; comment] Guereta LG, et al. **Heart** 1997 Jul; 78(1):95–6. Comment on: Heart 1996 Feb;75(2):190–4.

Neonatal lupus erythematosus with congenital heart block and severe heart failure due to myocarditis and endocardititis of the mitral valve. Ferrazzini G, et al. **Intensive Care Med** 1996 May;22(5):464–6

Placental and fetal cardiac laminin are targets for cross-reacting autoantibodies from mothers of children with congenital heart block. Horsfall AC, et al. **J Autoimmun** 1996 Aug;9(4):561–8

Congenital complete heart block. Agarwala B, et al. **J Natl Med Assoc** 1996 Nov;88(11):725–9

Congenital heart block and subsequent connective tissue disorder in adolescence. Hubscher O, et al. **Lupus** 1997; 6(3):283–4

Intrapartum fetal surveillance of congenital heart block with pulse oximetry. van den Berg PP, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):683–6

Natural history of congenital complete atrioventricular block. Michaelsson M, et al. **Pacing Clin Electrophysiol** 1997 Aug; 20(8 Pt 2):2098–101 (32 ref.)

Inadvertent but asymptomatic right atrial perforation with epicardial pacing in a neonate: a rare complication of temporary transvenous cardiac pacing. Reddy SC, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):368–9

VDD pacing in children with congenital complete heart block: advantages of a single pass lead. Rosenthal E, et al. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2102–6

Immunological aspects of congenital atrioventricular block. Smeenk RJ. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2093–7 (40 ref.)

Delayed dilated cardiomyopathy as a manifestation of neonatal lupus: case reports, autoantibody analysis, and management. Taylor-Albert E, et al. **Pediatrics** 1997 May; 99(5):733–5

Neonatal lupus: bedside to bench and back [editorial] Buyon JP. **Scand J Rheumatol** 1996;25(5):271–6 (49 ref.)

[The cardiac and neurological manifestations of Lyme borreliosis in congenital first-degree AV block] Stille-Siegener M, et al. **Dtsch Med Wochenschr** 1996 Oct 18;121(42):1292–6 (18 ref.) (Eng. Abstr.) (Ger)

[Complete congenital atrioventricular block: a case report and review of the literature] Curcio N, et al. **Cardiologia** 1997 Mar;42(3):305–9 (Eng. Abstr.) (Ita)

[Pacemaker implantation in 7 days or less old of early neonates] Tadokoro T, et al. **Rinsho Kyobu Geka** 1989 Oct; 9(5):490–3 (18 ref.) (Eng. Abstr.) (Jpn)

[Congenital arrhythmia, atrial flutter, supraventricular tachycardia, ventricular tachycardia, congenital complete atrioventricular block] Ogawa K. **Ryoikibetsu Shokogun Shirizu** 1996;(12):360–3 (14 ref.) (Jpn)

[Intrauterine and perinatal management of complete atrioventricular block in the fetus] Zimmer LP, et al. **Arq Bras Cardiol** 1996 Jul;67(1):11–5 (21 ref.) (Eng. Abstr.) (Por)

[Congenital heart block and maternal Sjögren Syndrome (letter)] Hübscher O, et al. **Medicina (B Aires)** 1996; 56(2):207–8 (Spa)

[Complete congenital atrioventricular block. Prenatal diagnosis and perinatal management] Comas C, et al. **Rev Esp Cardiol** 1997 Jul;50(7):498–506 (Eng. Abstr.) (Spa)

DIAGNOSIS

Complete heart block or not [letter; comment] Smith D Jr, et al. **Acad Emerg Med** 1996 Sep;3(9):905. Comment on: Acad Emerg Med 1995 Aug;2(8):751–6.

Cases in electrocardiography. Marafioti V, et al. **Am J Emerg Med** 1997 Jul;15(4):415–7

Cases in electrocardiography. Zimmers T. **Am J Emerg Med** 1997 Mar;15(2):178–81

Paroxysmal atrial tachycardia with second-degree atrioventricular block. Chen MC, et al. **Cardiology** 1997 Sep-Oct;88(5):474–7

Head-up tilt test. A nonspecific method of evaluating patients with bifascicular block. Englund A, et al. **Circulation** 1997 Feb 18;95(4):951–4

The RR index test for the differentiation of atrioventricular nodal block from His-Purkinje block during incremental atrial pacing in patients with bifascicular block. Englund A. **Eur Heart J** 1997 Feb;18(2):311–7

Noninvasive recording of His bundle activity with an analog delay device in normal subjects and patients with atrioventricular block. Ushiyama Y, et al. **Heart Vessels** 1995;10(5):241–8

Complete heart block as a first manifestation of acute rheumatic fever [letter; comment] Thakur AK. **Indian Heart J** 1996 Jul-Aug;48(4):428–9. Comment on: Indian Heart J 1996 May-Jun;48(3):303–4.

An electrocardiogram that demonstrates grouped beating: what is the rhythm? Morady F. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):581–2

ECG of the month. What's in a name? Second-degree AV block. Martinez-Lopez JI. **J La State Med Soc** 1997 Feb; 149(2):47–9

ECG of the month. Brink of disaster. Second-degree AV block. Martinez-Lopez JI. **J La State Med Soc** 1997 Aug; 149(8):259–61

The value of an electrophysiological study in a clear-cut case. Geelen P, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 1):1643–5

What's wrong with this atrial fibrillation? Ide B, et al. **Prog Cardiovasc Nurs** 1997 Spring;12(2):40

Does AV dissociation always mean heart block? Ide B, et al. **Prog Cardiovasc Nurs** 1996 Fall;11(4):47–8

Complete atrioventricular block in patients with acute inferior myocardial infarction. Clinical spectrum and prognostic significance. Luca C, et al. **Rom J Intern Med** 1996 Jul-Dec;34(3-4):189–98

[Monitoring of labor by fetal pulse oximetry in a case of fetal atrial-ventricular block] Boudineau M, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(3):321–3 (Eng. Abstr.) (Fre)

[What is your diagnosis? Pseudo-aortic coarctation. Congenital bicuspid aortic valve. Left anterior hemiblock] Hauser M, et al. **Schweiz Rundsch Med Prax** 1997 Jan 21; 86(4):79–82 (Ger)

[What is your diagnosis? 3rd-degree AV block with right bundle branch block] Popova N. **Schweiz Rundsch Med Prax** 1996 Sep 3;85(36):1065–6 (Ger)

[An isolated premature ventricular contraction can predict the clinical course of a 55-year-old man with acute myocardial infarction] Ogawa S. **J Cardiol** 1997 May; 29(5):293–5 (Jpn)

[Electrophysiologic focus of the diagnosis of non-complicated and complicated right ventricular block] de Micheli A, et al. **Arch Inst Cardiol Mex** 1996 May-Jun; 66(3):269–81 (18 ref.) (Spa)

[Clinical and electrocardiographic characteristics of masquerading bifascicular block] Gómez Barrado JJ, et al. **Rev Esp Cardiol** 1997 Feb;50(2):92–7 (Eng. Abstr.) (Spa)

[Exercise-induced atrioventricular block. Significance of the ischemic component. Report of 4 new cases] Rumoroso JR, et al. **Rev Esp Cardiol** 1997 Apr;50(4):278–82 (12 ref.) (Eng. Abstr.) (Spa)

DRUG THERAPY

Efficacy unproved of maternal dexamethasone for fetal heart block [letter; comment] Carvalho JS, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):502–3. Comment on: Am J Obstet Gynecol 1995 Nov;173(5):1384–90.

Fetal ventricular rate in case of congenital complete heart block is increased by ritodrine. Case report. Koike T, et al. **J Perinat Med** 1997;25(2):216–8

EPIDEMIOLOGY

[Arrhythmias and conduction block in the newborns of mothers who had received long-term tocolytic therapy] Wieczorek W. **Ginekol Pol** 1996 Aug;67(8):398–402 (Eng. Abstr.) (Pol)

ETIOLOGY

Catheter-induced atrioventricular nodal block during radiofrequency ablation. King A, et al. **Am Heart J** 1996 Nov;132(5):979–85

Clinical and electrophysiologic features of exercise-induced atrioventricular block. Sumiyoshi M, et al. **Am Heart J** 1996 Dec;132(6):1277–81

Importance of left anterior hemiblock development in inferior wall acute myocardial infarction. Assali A, et al. **Am J Cardiol** 1997 Mar 1;79(5):672–4

Frequency and prognostic significance of high-degree atrioventricular block in patients with a first non-Q-wave acute myocardial infarction. The SPRINT Study Group. Second Prevention Reinfarction Israeli Nifedipine Trial. Haim M, et al. **Am J Cardiol** 1997 Mar 1;79(5):674–6

Transjugular intrahepatic portosystemic shunt (TIPS) complicated by complete heart block [letter] Lee EN, et al. **Anaesth Intensive Care** 1997 Jun;25(3):312–3

Complete heart block during laparotomy under combined thoracic epidural and general anaesthesia. Ng KP. **Anaesth Intensive Care** 1996 Apr;24(2):257–60

Third-degree heart block complicating supraclavicular brachial plexus block. Vyas A, et al. **Anesthesiology** 1996 Sep;85(3):675–7

Low myocardial temperatures are associated with postoperative conduction defects after coronary artery bypass surgery. Mustonen PK, et al. **Ann Chir Gynaecol** 1996;85(1):44–50

1989: postoperative conduction disturbances: a comparison of blood and crystalloid cardioplegia. Updated in 1997. Gundry SR, et al. **Ann Thorac Surg** 1997 Mar;63(3):901–2

Successful surgical repair of aortic dissection presenting with complete heart block. Jessen ME, et al. **Ann Thorac Surg** 1996 Oct;62(4):1202–3

Images in cardiovascular medicine: complete heart block. Reisinger J, et al. **Circulation** 1997 Aug 19;96(4):1364

Inadvertent atrioventricular block during radiofrequency catheter ablation. Results of the Pediatric Radiofrequency Ablation Registry. Pediatric Electrophysiology Society. Schaffer MS, et al. **Circulation** 1996 Dec 15;94(12):3214–20

Wegener's granulomatosis with complete heart block. Handa R, et al. **Clin Exp Rheumatol** 1997 Jan-Feb;15(1):97–9

Traumatic heart block as a presentation of myocardial injury in two young children. Farin M, et al. **Clin Pediatr (Phila)** 1996 Jan;35(1):47–50

Delayed occurrence of complete atrioventricular block after radiofrequency ablation of atrioventricular node reentrant tachycardia. Follow-up [letter] Brembilla-Perrot B, et al. **Eur Heart J** 1996 Dec;17(12):1912–4

Complete AV-block in two children with immunohistochemical proven myocarditis. Heusch A, et al. **Eur J Pediatr** 1996 Aug;155(8):633–6

Subaortic left ventricular aneurysm presenting with complete heart block. Abhaichand RK, et al. **Indian Heart J** 1995 Sep-Oct;47(5):497–8

2:1 atrioventricular block during atrioventricular node reentrant tachycardia. Man KC, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1770–4

Ventriculoatrial block during a narrow-QRS tachycardia: what is the tachycardia mechanism?—IV. Morady F. **J Cardiovasc Electrophysiol** 1996 Feb;7(2):174–7

Complete infrahisian atrioventricular block after endocavitary shock delivered by an automatic implantable cardiac defibrillator. Babuty D, et al. **J Electrocardiol** 1996 Jul;29(3):249–53

A case of swallowing-induced atrioventricular block after myocardial infarction. Iwama Y, et al. **Jpn Circ J** 1996 Sep;60(9):710–4

Exercise-induced second-degree atrioventricular block. Yuzuki Y, et al. **Jpn Circ J** 1997 Mar;61(3):268–71

Transient complete heart block during radiofrequency ablation of a left lateral bypass tract. Stamato NJ, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1351–4

A useful marker during ablation. Xie B, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1359–62

New onset complete heart block and corrected transposition of great arteries in the seventh decade. Yeşil M, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):134–5

[Complete atrioventricular block disclosing Fabry's disease] Elhadad S, et al. **Arch Mal Coeur Vaiss** 1997 Mar; 90(3):393–7 (10 ref.) (Eng. Abstr.) (Fre)

[Kearns-Sayre syndrome. A rare indication for prophylactic cardiac pacing] Lewy P, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):93–7 (Eng. Abstr.) (Fre)

["Double nodal pathway" as a common electrogenic pathway at the base of first and second degree paroxysmal atrioventricular node and nodal reentrant tachycardia] Tritto M, et al. **Cardiologia** 1996 Oct;41(10):1001–4 (Eng. Abstr.) (Ita)

[Unidirectional block and longitudinal dissociation in an accessory pathway induced by radiofrequency] Oreto G, et al. **G Ital Cardiol** 1997 Mar;27(3):281–7 (Eng. Abstr.) (Ita)

[A case of heart concussion/contusion complicated by a complete atrioventricular block] Zebrowski A, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):263–7 (Eng. Abstr.) (Pol)

[Complete heart block after percutaneous mitral valvotomy with Inoue balloon] Evora PR, et al. **Arq Bras Cardiol** 1996 Mar;66(3):149–52 (Eng. Abstr.) (Por)

[Heart block caused by hyperkalemia as a complication of ureteroileostomy] Cuxart M, et al. **Actas Urol Esp** 1996 Sep;20(8):757–9 (Eng. Abstr.) (Spa)

[Heart block in a 75-year-old patient (clinical conference)] Abadal L, et al. **Med Clin (Barc)** 1996 Oct 5;107(11):429–36 (Spa)

GENETICS

Congenital heart block: HLA differences between affected children and healthy siblings in four Finnish families. Sirén MK, et al. **APMIS** 1997 Jun;105(6):463–8

Familial progressive cardiac conduction disorder and multiple exostoses. Atiq M, et al. **JPMA J Pak Med Assoc** 1997 Jun;47(6):169–72

Childhood-onset autosomal-dominant limb-girdle muscular dystrophy with cardiac conduction block. Fang W, et al. **Muscle Nerve** 1997 Mar;20(3):286–92

Cardiac arrhythmias and genetics. Abdulla R. **Pediatr Cardiol** 1997 Jul-Aug;18(4):314

[Familial atrioventricular block] Himura Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):256–8 (18 ref.) (Jpn)

[Progressive familial heart block (PFHB)] Nakayama T.

HEART BLOCK

Ryoikibetsu Shokogun Shirizu 1996;(12):308–10 (14 ref.) **(Jpn)**

IMMUNOLOGY

Complete congenital heart block is associated with increased autoantibody titers against calreticulin. Orth T, et al. **Eur J Clin Invest** 1996 Mar;26(3):205–15

Neonatal lupus: bedside to bench and back [editorial] Buyon JP. **Scand J Rheumatol** 1996;25(5):271–6 (49 ref.)

PARASITOLOGY

Complete heart block caused by cardiac echinococcosis and successfully treated with albendazole. Ozdemir M, et al. **Heart** 1997 Jan;77(1):84–5

PATHOLOGY

[Lev's disease] Okada R. **Ryoikibetsu Shokogun Shirizu** 1996;(15):515–8 (20 ref.) **(Jpn)**

[Lenegre's disease] Suzuki H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):512–4 (13 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Clinical and electrophysiologic features of exercise-induced atrioventricular block. Sumiyoshi M, et al. **Am Heart J** 1996 Dec;132(6):1277–81

Systolic and diastolic effects of variable atrioventricular delay in patients with complete heart block and normal ventricular function. Leonelli FM, et al. **Am J Cardiol** 1997 Aug 1;80(3):294–8

Role of wavefront curvature in propagation of cardiac impulse. Fast VG, et al. **Cardiovasc Res** 1997 Feb; 33(2):258–71 (86 ref.)

Hemodynamic changes pre- and post-pacing with complete heart block and aortic valve stenosis and regurgitation. Karim MA, et al. **Cathet Cardiovasc Diagn** 1996 Feb; 37(2):178–83

Sera from chronic chagasic patients with complex cardiac arrhythmias depress electrogenesis and conduction in isolated rabbit hearts. de Oliveira SF, et al. **Circulation** 1997 Sep 16;96(6):2031–7

Radiofrequency catheter ablation of atrial flutter. Further insights into the various types of isthmus block: application to ablation during sinus rhythm. Poty H, et al. **Circulation** 1996 Dec 15;94(12):3204–13

Mechanism of QRS electrical alternans. Brembilla-Perrot B, et al. **Heart** 1997 Feb;77(2):180–2

Temporary decrease in heart rate in Lyme carditis during treatment with antibiotics. Dam EP, et al. **Heart** 1996 Sep; 76(3):289–90

Postprandial atrioventricular block in a patient with diabetes mellitus. Okamoto M, et al. **Intern Med** 1997 Aug; 36(8):579–81

Conduction block in the inferior vena caval-tricuspid valve isthmus: association with outcome of radiofrequency ablation of type I atrial flutter. Schwartzman D, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1519–31

Long-term effect of right ventricular pacing on myocardial perfusion and function. Tse HF, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):744–9

Electrophysiologic characteristics and radiofrequency catheter ablation in atrioventricular node reentrant tachycardia with second-degree atrioventricular block. Lee SH, et al. **J Cardiovasc Electrophysiol** 1997 May; 8(5):502–11

Symptomatic atrioventricular block in an atriofascicular pathway inserting into the left bundle branch without apparent atrioventricular node function. Mecca A, et al. **J Cardiovasc Electrophysiol** 1997 Aug;8(8):922–6

Variable PR intervals: what is the rhythm? Morady F. **J Cardiovasc Electrophysiol** 1996 Dec;7(12):1234–5

Paradoxical shortening of the second PR interval during 3:2 atrioventricular nodal block. Pinski SL, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1091–4

Paroxysmal atrioventricular block induced during head-up tilt testing in an apparently healthy man. Sumiyoshi M, et al. **J Cardiovasc Electrophysiol** 1997 May;8(5):561–4

Hysteresis in atrial refractoriness in the conscious dog: influence of stimulation parameters and control by the autonomic nervous system. Boucher M, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):842–7

Similar recovery properties in fast and slow atrioventricular nodal pathways. Young ML, et al. **J Electrocardiol** 1996; 29 Suppl:226

Childhood-onset autosomal-dominant limb-girdle muscular dystrophy with cardiac conduction block. Fang W, et al. **Muscle Nerve** 1997 Mar;20(3):286–92

Delayed effects of radio frequency (RF) energy [letter; comment] Hintringer F. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1659. Comment on: Pacing Clin Electrophysiol 1996 Apr;19(4 Pt 1):484–9.

[Intraatrial block] Kawara T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):346–8 (4 ref.) **(Jpn)**

[Tachycardia and bradycardia dependent paroxysmal A-V block] Taguchi A, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (12):455–7 (16 ref.) **(Jpn)**

[Concealed conduction] Takahashi A, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):356–9 (22 ref.) **(Jpn)**

[Total electrical alternans and changes in auricular repolarization in a newborn infant] García Hernández N, et al. **Arch Inst Cardiol Mex** 1996 Jul-Aug;66(4):345–9 (Eng. Abstr.) **(Spa)**

SURGERY

DDD(R) pacing with automatic mode switch in patients with paroxysmal atrial fibrillation following AV nodal ablation. Schuchert A, et al. **Cardiology** 1997 Jul-Aug;88(4):323–7

Electrophysiologic characteristics and radiofrequency catheter ablation in atrioventricular node reentrant tachycardia with second-degree atrioventricular block. Lee SH, et al. **J Cardiovasc Electrophysiol** 1997 May; 8(5):502–11

Delayed effects of radio frequency (RF) energy [letter; comment] Hintringer F. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 1):1659. Comment on: Pacing Clin Electrophysiol 1996 Apr;19(4 Pt 1):484–9.

THERAPY

ANP concentrations during interchanging DDD-VVI pacing modes in patients with retrograde ventriculoatrial conduction. Papadopoulos CL, et al. **Acta Cardiol** 1997; 52(1):37–47

Physiological pacing for elderly patients: exploit the benefits but don't overdo it. Hargreaves MR, et al. **Age Ageing** 1994 Nov;23(6):441–4 (23 ref.)

American College of Cardiology/American Heart Association guidelines for pacemaker implantation after acute myocardial infarction. What is persistent advanced block at the atrioventricular node? [editorial] Barold SS. **Am J Cardiol** 1997 Sep 15;80(6):770–4 (41 ref.)

A new approach for DDD(R) pacing using a single-pass DDD lead. Naegeli B, et al. **Am J Cardiol** 1997 Sep 1; 80(5):643–5

Feasibility and sensing thresholds of temporary single-lead VDD pacing in intensive care. Voightländer T, et al. **Am J Cardiol** 1997 May 15;79(10):1360–3

Termination of implantable pacemaker therapy: experience in five patients. Iskos D, et al. **Ann Intern Med** 1997 May 15;126(10):787–90

Effectiveness and limitations of the fallback I algorithm for transient supraventricular tachyarrhythmias in DDD pacing. Mayumi H, et al. **Artif Organs** 1996 Jul;20(7):810–4

Exercise hemodynamic benefits of rate adaptive ventricular pacing. Ma J, et al. **Chin Med J (Engl)** 1996 Jun; 109(6):459–62

Hemodynamic effects of chronic prenatal ventricular pacing for the treatment of complete atrioventricular block. Liddicoat JR, et al. **Circulation** 1997 Aug 5;96(3):1025–30

Case report: demonstration of a potentially fatal complication of pacing. Fox BM, et al. **Clin Radiol** 1997 Sep;52(9):723–4

Clinical results with single lead VDD pacing. Liebold A, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):722–7

Impact of continuous quality improvement on selection of pacing mode and rate of complications in permanent pacing. Møller JE, et al. **Heart** 1997 Apr;77(4):357–62

Left atrial appendage function during DDD and VVI pacing. Simantirakis EN, et al. **Heart** 1997 May;77(5):428–31

Removal of a fractured retention wire of an Accufix "J" pacemaker lead with an Amplatz goose neck snare. Saibil EA. **J Vasc Interv Radiol** 1996 May-Jun;7(3):367–9

Noninvasive beat-to-beat arterial blood pressure measurement during VVI and DDD pacing: relationship to symptomatic benefit from DDD pacing. Channon KM, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):25–33

A randomized, single-blind crossover comparison of the effects of chronic DDD and dual sensor VVIR pacing mode on quality-of-life and cardiopulmonary performance in complete heart block. Deharo JC, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1320–6

An unusual cause of high threshold values at pacemaker implantation. Emilsson K, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):366–7

Long-term survivors of pacemaker implant. [editorial] Furman S. **Pacing Clin Electrophysiol** 1996 Feb;19(2):134–5

Complete heart block in the setting of mitochondrial cytopathy: implantation of a permanent pacemaker in a 6-year-old boy. Grekas GF, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):995–6

Combined third-generation implantable cardioverter defibrillator with permanent unipolar pacemakers: preliminary observations. Haffajee C, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):136–42

Late atrioventricular (AV) block and permanent pacemaker implantation after orthotopic cardiac transplantation [letter; comment] Holt ND, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1272. Comment on: Pacing Clin Electrophysiol 1996 Mar;19(3):325–30.

Acute changes in left atrial and left ventricular diameters after physiological pacing. Ishikawa T, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):143–9

Determining optimal atrial sensitivity settings for single lead VDD pacing: the importance of the P wave histogram. Langford EJ, et al. **Pacing Clin Electrophysiol** 1997 Mar; 20(3 Pt 1):619–23

Delayed exercise rate response kinetics due to sensor cross-checking in a dual sensor rate adaptive pacing system: the importance of individual sensor programming. Lau CP, et al. **Pacing Clin Electrophysiol** 1996 Jul; 19(7):1021–5

Use of automatic mode change between DDD and AAI to facilitate native atrioventricular conduction in patients with sick sinus syndrome or transient atrioventricular block. Mayumi H, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1740–7

The importance of different atrioventricular delay for left ventricular filling in sequential pacing: clinical implications. Modena MG, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 1):1595–604

Inadvertent but asymptomatic right atrial perforation with epicardial pacing in a neonate: a rare complication of temporary transvenous cardiac pacing. Reddy SC, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):368–9

Ventricular output failure in a DDD permanent pacemaker associated with increased atrial output. Santucci PA, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):739–42

Perioperative management of children with third degree heart block undergoing pacemaker placement: a ten year review. Bennie RE, et al. **Paediatr Anaesth** 1997;7(4):301–4

Ventricular standstill and cardiac percussion [see comments] Dowdle JR. **Resuscitation** 1996 Jul;32(1):31–2. Comment in: Resuscitation 1996 Jul;32(1):3–4.

Paediatric pacemaker implant using the transvenous endocardial approach. Quek SC, et al. **Singapore Med J** 1995 Aug;36(4):447–9

[Accidental insertion of a temporary pacemaker electrode in the left ventricle: radiological and electrocardiographic diagnosis] Rickenbacher P, et al. **Schweiz Med Wochenschr** 1996 Oct 5;126(40):1688–92 (Eng. Abstr.) **(Ger)**

[Frequency of atrial pacing in patients with intermittent atrial fibrillation and 2nd or 3rd degree atrioventricular block. Thera DR Pacemaker Study Group] Schuchert A, et al. **Z Kardiol** 1997 Feb;86(2):81–4 (Eng. Abstr.) **(Ger)**

[Atrial sensing and atrioventricular synchrony in single lead VDD pacemakers. Can the appearance of atrial undersensing be predicted?] Wiegand UK, et al. **Z Kardiol** 1997 Feb;86(2):95–104 (Eng. Abstr.) **(Ger)**

[Defecation syncope following pacemaker implantation] Rudas L, et al. **Orv Hetil** 1997 Jan 12;138(2):81–2 (Eng. Abstr.) **(Hun)**

[Use of esophageal atrial electrogram and an external Thera VDD pacemaker in atrial-triggered ventricular pacing in acute myocardial infarction complicated by total AV block and low cardiac output] Manfredini R, et al. **G Ital Cardiol** 1996 Nov;26(11):1291–4 (Eng. Abstr.) **(Ita)**

[Pacemaker implantation in 7 days or less old of early neonates] Tadokoro T, et al. **Rinsho Kyobu Geka** 1989 Oct; 9(5):490–3 (18 ref.) (Eng. Abstr.) **(Jpn)**

–Rate-responsive pacemaker with an unexpected chronotropic response– Petrucci O Jr, et al. **Arq Bras Cardiol** 1996 Mar;66(3):153–5 (Eng. Abstr.) **(Por)**

[Pregnancy and the use of pacemakers] Roncone E D, et al. **Rev Chil Obstet Ginecol** 1995;60(3):217–8 (Eng. Abstr.) **(Spa)**

[Complete congenital atrioventricular block. Prenatal diagnosis and perinatal management] Comas C, et al. **Rev Esp Cardiol** 1997 Jul;50(7):498–506 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Isolated persistent fetal bradycardia in complete A-V block: a conservative approach is appropriate. A case report and a review of the literature. Rabinerson D, et al. **Am J Perinatol** 1997 Jul;14(6):317–20 (17 ref.)

VETERINARY

Questions ECG of the month [letter; comment] Childers HE. **J Am Vet Med Assoc** 1996 Sep 15;209(6):1063–4. Comment on: J Am Vet Med Assoc 1996 Jul 1;209(1):60–1.

Intrinsic atrioventricular conductive function in horses with a second degree atrioventricular block. Yamaya Y, et al. **J Vet Med Sci** 1997 Mar;59(3):149–51

VIROLOGY

The expression of human endogenous retrovirus-3 in fetal cardiac tissue and antibodies in congenital heart block. Li JM, et al. **Clin Exp Immunol** 1996 Jun;104(3):388–93

HEART BYPASS, LEFT

Protective effect of hypothermia and left heart bypass on spinal ischemia in the dog. Rose WW 3rd, et al. **Arch Surg** 1997 Jun;132(6):633–9; discussion 639–40

Development of a centrifugal pump with improved antithrombogenicity and hemolytic property for chronic circulatory support. Taenaka Y, et al. **Artif Organs** 1996 Jun;20(6):491–6

Fluctuations of the hemodynamic derivatives during left ventricular assistance using oscillated blood flow. Yambe T, et al. **Artif Organs** 1996 Jun;20(6):637–40

Leftward deviation of the interatrial septum during left heart bypass for repair of a thoracic aortic aneurysm. Hanowell LH, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):251–2

[Experimental study on the effect of simple percutaneous left heart bypass (LHB) in cases of brain death--hemodynamic and histological evaluation] Kokaji K. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):974–84 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Posterior circulation cerebral infarcts associated with repair of thoracic aortic disruption using partial left heart bypass. Duke BJ, et al. **J Trauma** 1997 Jun;42(6):1135–9

INSTRUMENTATION

Surgery of descending thoracic aortic aneurysms with centrifugal pump support. Biglioli P, et al. **Cardiovasc Surg** 1997 Feb;5(1):99–103

METHODS

Bidirectional inferior vena cava–pulmonary artery shunt. Macé L, et al. **Ann Thorac Surg** 1997 May;63(5):1321–5

Hemodynamic control during left heart bypass with a piezometric tower [letter] Noera G, et al. **Ann Thorac Surg** 1997 Sep;64(3):889–90

A new supportive method of aortic aneurysm surgery: centrifugal left heart bypass combined with an oxygenator and a heat exchanger. Aomi S, et al. **Artif Organs** 1996 Jun;20(6):700–3

Coronary microcirculation during left heart bypass with a centrifugal pump. Hata M, et al. **Artif Organs** 1996 Jun; 20(6):678–80

Biventricular bypass with oxygenation for postcardiotomy ventricular failure. Kodera K, et al. **Artif Organs** 1996 Jun; 20(6):724–7

Numerical simulation of nonpulsatile left ventricular bypass. Mitsui N, et al. **Artif Organs** 1996 Jun;20(6):632–6

HEART BYPASS, RIGHT

Modified ultrafiltration reduces postoperative morbidity after cavopulmonary connection. Koutlas TC, et al. **Ann Thorac Surg** 1997 Jul;64(1):37–42; discussion 43

Bidirectional cavopulmonary shunt in patients with anomalies of systemic and pulmonary venous drainage. McElhinney DB, et al. **Ann Thorac Surg** 1997 Jun;63(6):1676–84

Bidirectional superior cavopulmonary anastomosis: how young is too young? [letter; comment] Qureshi SA, et al. **Heart** 1997 Jul;78(1):95. Comment on: Heart 1996 Jan;75(1):78–82.

Systemic venous collateral channels causing desaturation after bidirectional cavopulmonary anastomosis: evaluation and management. McElhinney DB, et al. **J Am Coll Cardiol** 1997 Sep;30(3):817–24

Reversal of flow in the left pulmonary artery after cavopulmonary connection. Minich LL, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):202–5 (5 ref.)

A numerical fluid mechanical study of repaired congenital heart defects. Application to the total cavopulmonary connection. Dubini G, et al. **J Biomech** 1996 Jan; 29(1):111–21

A computational pulsatile model of the bidirectional cavopulmonary anastomosis: the influence of pulmonary forward flow. Migliavacca F, et al. **J Biomech Eng** 1996 Nov;118(4):520–8

Total extracardiac right heart bypass using a polytetrafluoroethylene graft. Iemura J, et al. **J Card Surg** 1997 Jan–Feb;12(1):32–6

Inhaled nitric oxide in patients with critical pulmonary perfusion after Fontan–type procedures and bidirectional Glenn anastomosis. Gamillscheg A, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):435–42

Pulmonary artery growth after bidirectional cavopulmonary shunt: is there a cause for concern? Reddy VM, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1180–90; discussion 1190–2

Superior vena cava to pulmonary artery anastomosis: an adjunct to biventricular repair. Van Arsdell GS, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1143–8; discussion 1148–9

A mathematical model of circulation in the presence of the bidirectional cavopulmonary anastomosis in children with a univentricular heart. Pennati G, et al. **Med Eng Phys** 1997 Apr;19(3):223–34

[Total cavo–pulmonary anastomosis in heart surgery for the correction of univentricular heart] Hartyánszky I, et al. **Orv Hetil** 1996 Dec 29;137(52):2923–5 (Eng. Abstr.) **(Hun)**

[A case report of total cavopulmonary connection following total cavopulmonary shunt] Shiina Y, et al. **Kyobu Geka** 1996 May;49(5):405–7 (Eng. Abstr.) **(Jpn)**

[Evaluation of total cavopulmonary shunt operation from late results] Matsuda H, et al. **Rinsho Kyobu Geka** 1989 Apr; 9(2):138–41 (Eng. Abstr.) **(Jpn)**

[Mechanism of hemodynamic effects of right cardiac shunting] Sokolov MV, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):13–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Cavopulmonary shunt and pulmonary arteriovenous malformations [editorial; comment] Kawashima Y. **Ann Thorac Surg** 1997 Apr;63(4):930–2. Comment on: Ann Thorac Surg 1997 Apr;63(4):960–3.

Aprotinin improves outcome of single–ventricle palliation. Tweddell JS, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1329–35; discussion 1335–6

METHODS

Biventricular bypass with oxygenation for postcardiotomy ventricular failure. Kodera K, et al. **Artif Organs** 1996 Jun; 20(6):724–7

Bidirectional superior cavopulmonary connection in young infants. Bradley SM, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II5–11

Bidirectional Glenn followed by total cavopulmonary connection or primary total cavopulmonary connection? Kostelka M, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):177–83

Acute aortic outflow obstruction by diminution of bulboventricular foramen size after volume unloading in univentricular physiology. Van Son JA, et al. **Eur J Cardiothorac Surg** 1996;10(9):809–11

An institutional experience with second– and third–stage palliative procedures for hypoplastic left heart syndrome: the impact of the bidirectional cavopulmonary shunt. Forbess JM, et al. **J Am Coll Cardiol** 1997 Mar 1; 29(3):665–70

Right heart bypass with an extracardiac conduit for functionally single ventricle with anomalous pulmonary venous connection to the right atrium. Roberts CS, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):297–8

[Hydrodynamic basis for the choice of cavo–pulmonary anastomosis] Bokeriia LA, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):476–80 **(Rus)**

[Bidirectional cavopulmonary diversion for tricuspid atresia. Experience in the National Institute of Cardiology] Ramírez Marroquín ES, et al. **Arch Inst Cardiol Mex** 1996 May–Jun;66(3):220–8 (Eng. Abstr.) **(Spa)**

STANDARDS

Pulmonary arterial impedance analysis by the use of the oscillated assist flow. Yambe T, et al. **Artif Organs** 1997 Jul;21(7):751–4

HEART CATHETERIZATION

see related

PULMONARY WEDGE PRESSURE

Correspondence of aortic valve area determination from transesophageal echocardiography, transthoracic echocardiography, and cardiac catheterization. Kim CJ, et al. **Am Heart J** 1996 Dec;132(6):1163–72

Transcatheter occlusion of native persistent ductus arteriosus using conventional Gianturco coils. Alwi M, et al. **Am J Cardiol** 1997 May 15;79(10):1430–2

Telephone reporting of cardiac procedure results to primary care physicians. Blankenship JC, et al. **Am J Cardiol** 1997 Apr 1;79(7):984–6

Comparison of continuous left ventricular volumes by transthoracic two–dimensional digital echo quantification with simultaneous conductance catheter measurements in patients with cardiac diseases. Chen CH, et al. **Am J Cardiol** 1997 Sep 15;80(6):756–61

Comparison of quantitation of left ventricular volume, ejection fraction, and cardiac output in patients with atrial fibrillation by cine magnetic resonance imaging versus invasive measurements. Hundley WG, et al. **Am J Cardiol** 1996 Nov 15;78(10):1119–23

Single therapeutic catheterization to treat coexisting coarctation of the aorta and patent ductus arteriosus. Ing FF, et al. **Am J Cardiol** 1997 Feb 15;79(4):535–7

Role of adenosine in the cardiac catheterization laboratory. Ogilby JD. **Am J Cardiol** 1997 Jun 19;79(12A):15–9 (19 ref.)

Reduced radiation during cardiac catheterization of infants using acquisition zoom technology. Ross RD, et al. **Am J Cardiol** 1997 Mar 1;79(5):691–3

Influence of gender, race, and education on patient preferences and receipt of cardiac catheterizations among coronary care unit patients. Schecter AD, et al. **Am J Cardiol** 1996 Nov 1;78(9):996–1001

Work time required to perform diagnostic and interventional pediatric cardiac catheterizations. Zamora R, et al. **Am J Cardiol** 1997 Aug 15;80(4):528–30

Reducing time in bed after cardiac catheterization (TIBS II) [see comments] Keeling A, et al. **Am J Crit Care** 1996 Jul; 5(4):277–81. Comment in: Am J Crit Care 1996 Nov;5(6):462.

Reducing time in bed after cardiac catheterization (TIBS II) [letter; comment] Layman TE. **Am J Crit Care** 1996 Nov; 5(6):462. Comment on: Am J Crit Care 1996 Jul;5(4):277–81.

Use of a collagen plug versus manual compression for sealing arterial puncture site after cardiac catheterization. Gwechenberger M, et al. **Angiology** 1997 Feb;48(2):121–6

Radiation exposure to children during cardiac catheterization. Boothroyd A, et al. **Br J Radiol** 1997 Feb; 70:180–5

Comparison of Doppler echocardiography and right heart catheterization to assess pulmonary hypertension in systemic sclerosis. Denton CP, et al. **Br J Rheumatol** 1997 Feb;36(2):239–43

Radiation safety in the cardiac catheterization laboratory. Aldridge HE, et al. **Can J Cardiol** 1997 May;13(5):459–67

Hemodynamic stabilization of acute prosthetic valve thrombosis using percutaneous catheter manipulation. Jabbour S, et al. **Cathet Cardiovasc Diagn** 1996 Nov; 39(3):314–6

Indwelling pericardial drainage catheter break secondary to heart movement and catheter angulation. Johnson CT, et al. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):58–60

Filmless multimedia display following cardiac catheterization. Mathewson JW. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):456–66 (18 ref.)

Pulmonary artery flotation catheters. A statement by the American College of Chest Physicians and the American Thoracic Society [editorial] [see comments] Chernow B. **Chest** 1997 Feb;111(2):261–2. Comment in: Chest 1997 May;111(5):1465.

Noninvasive measurement of pulmonary arterial blood velocity. Can it replace right heart catheterization? [letter] Frank H, et al. **Chest** 1997 May;111(5):1470–1

Turbulent/viscous interactions control Doppler/catheter pressure discrepancies in aortic stenosis. The role of the Reynolds number. Cape EG, et al. **Circulation** 1996 Dec 1;94(11):2975–81

Evaluation of superficial femoral artery compromise and limb growth retardation after transfemoral artery balloon dilatations. Lee HY, et al. **Circulation** 1997 Feb 18; 95(4):974–80

Influence of sex on the use of cardiac procedures in patients presenting to the emergency department. A prospective multicenter study. Maynard C, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II93–8

Measurement of intracardiac pressures [letter; comment] Nash IS. **Circulation** 1996 Aug 1;94(3):586–7. Comment on: Circulation 1995 Oct 1;92(7):1994–2000.

Terminology in cardiology [letter] Romanelli MF. **Circulation** 1997 Mar 18;95(6):1673

Transcatheter coil occlusion of surgical fenestration after Fontan operation [see comments] Sommer RJ, et al. **Circulation** 1996 Aug 1;94(3):249–52. Comment in: Circulation 1996 Aug 1;94(3):247–8.

Point–of–care fibrinolytic tests: the other side of blood coagulation. Oberhardt BJ, et al. **Clin Chem** 1997 Sep; 43(9):1697–702

Is pressure recovery an important cause of "Doppler aortic stenosis" with no gradient at cardiac catheterisation? [editorial] Chambers J. **Heart** 1996 Nov;76(5):381–3

Transcatheter closure of large patent ductus arteriosus (> or = 4 mm) with multiple Gianturco coils: immediate and mid–term results. Hijazi ZM, et al. **Heart** 1996 Dec; 76(6):536–40

New insight into plaque healing after plaque rupture with subsequent thrombus formation detected by intravascular ultrasound. Jeremias A, et al. **Heart** 1997 Mar;77(3):293

Surveillance cardiac catheterisation in heart transplant recipients [editorial] Kim CB, et al. **Heart** 1997 Aug; 78(2):103–4

Hypertrophic cardiomyopathy with apical aneurysm: a case of catheter and surgical therapy of sustained monomorphic ventricular tachycardia. Mantica M, et al. **Heart** 1997 May; 77(5):481–3

Closure of the arterial duct: past, present, and future [editorial] Rigby ML. **Heart** 1996 Dec;76(6):461–2

Occlusion of congenital ventricular septal defects by the buttoned device. "Buttoned device" Clinical Trials International Register. Sideris EB, et al. **Heart** 1997 Mar; 77(3):276–9

Total UK multi–centre experience with a novel arterial occlusion device (Duct Occlud pfm). Tometzki A, et al. **Heart** 1996 Dec;76(6):520–4

Transcatheter occlusion of the patent ductus arteriosus with Cook detachable coils. Tometzki AJ, et al. **Heart** 1996 Dec; 76(6):531–5

Transcatheter umbrella closure of aorto–pulmonary window. Tulloh RM, et al. **Heart** 1997 May;77(5):479–80

Transcatheter occlusion of the arterial duct with Cook detachable coils: early experience. Uzun O, et al. **Heart** 1996 Sep;76(3):269–73

Combined use of detachable coil against persistent mechanical hemolysis after transcatheter occlusion using Rashkind umbrella device in adult patient with patent ductus arteriosus. Murakami H, et al. **Heart Vessels** 1997; 12(1):49–51

Septal coronary artery ablation for hypertrophic obstructive cardiomyopathy. Bahl VK, et al. **Indian Heart J** 1996 Nov–Dec;48(6):701–3

Exercise Doppler echocardiography in conjunction with right heart catheterization for the assessment of mitral stenosis. Voelker W, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S191–5

Accuracy of Doppler catheter measurements: effect of inhomogeneous beam power distribution on mean and peak velocity. Denardo SJ, et al. **J Am Coll Cardiol** 1997 Feb; 29(2):283–92

Utility of preload alteration in assessment of left ventricular filling pressure by Doppler echocardiography: a simultaneous catheterization and Doppler echocardiographic study. Hurrell DG, et al. **J Am Coll Cardiol** 1997 Aug;30(2):459–67

From research to clinical practice: current role of intracoronary physiologically based decision making in the cardiac catheterization laboratory. Kern MJ, et al. **J Am Coll Cardiol** 1997 Sep;30(3):613–20 (62 ref.)

Maintenance of hemostasis after invasive cardiac procedures: implications for outpatient catheterization. Lehmann KG, et al. **J Am Coll Cardiol** 1997 Aug;30(2):444–51

Noninvasive doppler echocardiographic evaluation of left ventricular filling pressures in patients with cardiomyopathies: a simultaneous Doppler echocardiographic and cardiac catheterization study. Nishimura RA, et al. **J Am Coll Cardiol** 1996 Nov 1;

28(5):1226–33

Variability between methods of calculating mitral valve area: simultaneous Doppler echocardiographic and cardiac catheterization studies conducted before and after percutaneous mitral valvuloplasty. Klarich KW, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):684–90

Echocardiographic imaging of a basket catheter for mapping and ablation of ventricular tachycardia in pigs. Ohad DG, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):505–10

Noninvasive Doppler-derived myocardial performance index: correlation with simultaneous measurements of cardiac catheterization measurements. Tei C, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):169–78

A simple technique for retrograde cerebral perfusion during circulatory arrest. Cope JT, et al. **J Card Surg** 1996 Jan–Feb;11(1):65–7

Developing a cardiac catheterization education program. Weld L. **J Cardiovasc Nurs** 1997 Jan;11(2):47–57

Video networking of cardiac catheterization laboratories. Tobis J, et al. **J Digit Imaging** 1997 Aug;10(3 Suppl 1):113–5

High-density endocardial activation mapping of the right atrium in three dimensions by composition of multielectrode catheter recordings. Triedman JK, et al. **J Electrocardiol** 1996;29 Suppl:234–40

Efficacy of right heart catheterization. Tomko LP, et al. **J Fam Pract** 1996 Dec;43(6):535–6

Scheduled autologous blood donation at the time of cardiac catheterization in infants and children. Fukahara K, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):504–5

Regional wall motion changes with dobutamine as a pharmacological stress test during cardiac catheterization in patients with significant coronary artery disease. Wagdi P, et al. **Jpn Heart J** 1996 Nov;37(6):847–53

Respiratory and haemodynamic modifications during right heart catheterization in COLD patients. Scalvini S, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):438–42

The debate over cardiac catheterization. Berlin B. **N J Med** 1997 Jan;94(1):25–7

Changes in carbon dioxide tension and oxygen saturation during deep sedation for paediatric cardiac catheterization. Friesen RH, et al. **Paediatr Anaesth** 1996;6(1):15–20

Oxygen consumption in infants and children during heart catheterization. Lundell BP, et al. **Pediatr Cardiol** 1996 Jul–Aug;17(4):207–13

Routine coronary angioplasty with autoperfusion balloon catheter: Can prolonged inflations reduce myocardial ischemia and preserve myocardial function? Cremonesi A, et al. **Riv Eur Sci Med Farmacol** 1995 Nov–Dec; 17(6):209–13

TAT, F1 + 2, and D-dimer levels in patients after coronary angiography with nonionic or ionic contrast media or after cardiac catheterization. Biancardi M, et al. **Semin Thromb Hemost** 1996;22 Suppl 1:61–5

Flush heparin during cardiac catheterisation prevents long-term coagulation activation in children without APC-resistance-preliminary results. Vielhaber H, et al. **Thromb Res** 1996 Mar 15;81(6):651–6

Sir John McNee Bequest. The prevalence of risk factors for coronary artery disease in ethnic minorities in patients undergoing cardiac catheterization. Report on a period of elective study. Manzouri B. **Trans Med Soc Lond** 1994–95; 111:112–6

[Evaluation of sevoflurane, new anesthetic agent during pediatric cardiac catheterization] Bazin JE, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):657–60 (Eng. Abstr.) **(Fre)**

[Late complications of percutaneous closure of atrial septal defects with the Sideris occluder] Lambert V, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):245–51 (Eng. Abstr.) **(Fre)**

[Can Doppler echocardiography help to avoid cardiac catheterization in the surgical decision-making in isolated left heart valve diseases?] Tribouilloy C, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1607–16 (28 ref.) (Eng. Abstr.) **(Fre)**

[Standards concerning cardiac catheterization and angiocardiography in adults. Subcommittee for Catheterization and Angiography. Committee on Standards of the Canadian Society of Cardiology] Miller RM, et al. **Can J Cardiol** 1996 Aug;12(8):719–21 **(Fre)**

[Percutaneous suture closure of the femoral artery access after diagnostic heart catheter examination or coronary intervention] Gerckens U, et al. **Dtsch Med Wochenschr** 1996 Nov 29;121(48):1487–91 (Eng. Abstr.) **(Ger)**

[Recommendations for coronary catheterization, revascularization, and arrangement of coronary stent] Battler A, et al. **Harefuah** 1997 Apr 1;132(7):500–1 **(Heb)**

[Echocardiography versus catheterization in the selection of patients for heart transplantation] Recusani F, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):469–76 **(Ita)**

[Left heart catheterization] Ishikawa S, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:672–5 (6 ref.) **(Jpn)**

[Right heart catheterization] Ishikawa S, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:676–9 (4 ref.) **(Jpn)**

[Endocarditis in patients with endocardial catheters; role of transesophageal echocardiography for its detection (report of 4 clinical cases)] Galrinho A, et al. **Rev Port Cardiol** 1996 Sep;15(9):649–55, 613 (18 ref.) (Eng. Abstr.) **(Por)**

[Diagnosis of renovascular disease by heart catheterization] de Sequera P, et al. **Med Clin (Barc)** 1997 Apr 12; 108(14):539–41 (Eng. Abstr.) **(Spa)**

[Coronary angioplasty through 6 French guiding catheters] Morís de la Tassa C, et al. **Rev Esp Cardiol** 1996 Feb; 49(2):124–9 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Femoral complications and bed rest duration after coronary arteriography. Lim R, et al. **Am J Cardiol** 1997 Jul 15; 80(2):222–3

Obliteration of femoral pseudoaneurysm complicating coronary intervention by direct puncture and permanent or removable coil insertion. Pan M, et al. **Am J Cardiol** 1997 Sep 15;80(6):786–8

Nonoperative therapy for postcatheterization femoral artery pseudoaneurysms. Kazmers A, et al. **Am Surg** 1997 Feb; 63(2):199–204

Local venous thrombosis after cardiac catheterization. Zahn R, et al. **Angiology** 1997 Jan;48(1):1–7

Rare complication of retrograde cardioplegia: inner wall perforation of the right atrium. He GW. **Ann Thorac Surg** 1997 Feb;63(2):539–41

Radiodermatitis following cardiac catheterization [letter; comment] D'Incan M, et al. **Arch Dermatol** 1997 Feb; 133(2):242–3. Comment on: Arch Dermatol 1996 Jun;132(6):663–7.

Ultrasound-guided compression repair and beyond [editorial; comment] Chatterjee T, et al. **Cathet Cardiovasc Diagn** 1997 Jan;40(1):16. Comment on: Cathet Cardiovasc Diagn 1997 Jan;40(1):9–15.

Pyrogenic reactions in patients undergoing cardiac catheterization associated with contaminated glass medicine cups. Cookson ST, et al. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):12–8

Coronary air embolism: incidence, severity, and suggested approaches to treatment [see comments] Khan M, et al. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):313–8. Comment in: Cathet Cardiovasc Diagn 1995 Dec;36(4):319.

Isolated splenic infarction following left cardiac catheterization: case report and a review of the literature. Knobel B, et al. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):365–8 (20 ref.)

Radiation exposure in the cardiac catheterization laboratory: an issue or a non-issue? [editorial; comment] Meier B. **Cathet Cardiovasc Diagn** 1997 Apr;40(4):352. Comment on: Cathet Cardiovasc Diagn 1997 Apr;40(4):348–51.

Predictors of arterial thrombosis after diagnostic cardiac catheterization in infants and children randomized to two heparin dosages. Saxena A, et al. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):400–3

Pseudoaneurysm after cardiac catheterization: therapeutic interventions and their sequelae: experience in 86 patients [see comments] Zahn R, et al. **Cathet Cardiovasc Diagn** 1997 Jan;40(1):9–15. Comment in: Cathet Cardiovasc Diagn 1997 Jan;40(1):16.

Complications of intra-cardial placement of silastic central venous catheter in pediatric patients. Soong WJ, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov–Dec;37(6):410–4

Association of heparin-resistant thrombin activity with acute ischemic complications of coronary interventions. Oltrona L, et al. **Circulation** 1996 Nov 1;94(9):2064–71

Posterior cerebral circulation infarct following cardiac catheterization and balloon angioplasty in an adolescent. Easley RB, et al. **Clin Pediatr (Phila)** 1997 Sep;36(9):535–8

Fatal occlusion of the left coronary main stem by a fragment from the femoral artery: a previously unreported complication of cardiac catheterization. Veijola M, et al. **Forensic Sci Int** 1997 Aug 4;88(2):111–6

Plasma thrombomodulin concentrations in infants and children undergoing cardiac catheterization. Vielhaber H, et al. **Haematologica** 1996 Sep–Oct;81(5):457–9

Vascular complications of coronary interventions. Davis C, et al. **Heart Lung** 1997 Mar–Apr;26(2):118–27 (21 ref.)

Femoral nerve palsy: a rare presentation of femoral artery pseudoaneurysm following cardiac catheterisation. Bapat VN, et al. **Indian Heart J** 1996 Nov–Dec;48(6):715–6

Left ventricular perforation with Gensini catheters [letter; comment] Cheng TO. **Int J Cardiol** 1997 Mar;59(1):105. Comment on: Int J Cardiol 1996 Feb;53(2):103–6; discussion 107–8.

Guide wire outer coat shearing and embolisation: an unusual complication of pericardiocentesis. Reddy SC, et al. **Int J Cardiol** 1997 Jun 27;60(1):15–8

Outpatient cardiac catheterisation. Skinner JS, et al. **Int J Cardiol** 1996 Mar;53(3):209–19 (34 ref.)

Management of 219 consecutive cases of postcatheterization pseudoaneurysm. Schaub F, et al. **J Am Coll Cardiol** 1997 Sep;30(3):670–5

Repair of aortic cusp traumatic laceration caused by cardiac catheterization. Fundarò P, et al. **J Heart Valve Dis** 1996 May;5(3):281–2

Cardiac catheterisation in patients with infective endocarditis [letter; comment] Ward C. **J R Coll Physicians Lond** 1997 May–Jun;31(3):341–2. Comment on: J R Coll Physicians Lond 1996 Jul–Aug;30(4):309–15.

Physicians' judgments of the risks of cardiac procedures. Differences between cardiologists and other internists. Poses RM, et al. **Med Care** 1997 Jun;35(6):603–17

Acute osteomyelitis of the pubic symphysis following cardiac catheterization. LeCroy CM, et al. **Orthopedics** 1997 Feb; 20(2):171–3

[Formation, therapy and prevention of false aneurysm of the femoral artery following diagnostic and interventional heart catheterization] Rath J, et al. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):771–7 (Eng. Abstr.) **(Ger)**

[Factors related to the appearance of peripheral vascular complications after taneous cardiovascular interventions] Navarro F, et al. **Rev Esp Cardiol** 1997 Jul;50(7):480–90 (Eng. Abstr.) **(Spa)**

CONTRAINDICATIONS

[A case of cholesterol crystal embolism following coronarography: a contraindication of the procedure?] Montagna P, et al. **G Ital Cardiol** 1997 Feb;27(2):164–7 (Eng. Abstr.) **(Ita)**

ECONOMICS

The impact of optimal stenting techniques on cardiac catheterization laboratory resource utilization and costs. Sukin CA, et al. **Am J Cardiol** 1997 Feb 1;79(3):275–80

Cost and efficacy of surgical ligation versus transcatheter coil occlusion of patent ductus arteriosus. Hawkins JA, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1634–8; discussion 1638–9

[Echocardiography versus cardiac catheterization for surgical indications in the era of DRG: cost-benefit analysis] Di Liso G, et al. **G Ital Cardiol** 1996 Sep; 26(9):1049–53 **(Ita)**

HISTORY

Werner Forssmann: a pioneer of cardiology. Forssmann-Falck R. **Am J Cardiol** 1997 Mar 1;79(5):651–60

INSTRUMENTATION

Local intracoronary heparin delivery with a microporous balloon catheter. Thomas CN, et al. **Am Heart J** 1996 Nov; 132(5):969–72

Influence of guiding catheter selection on the measurement of coronary flow reserve. Abizaid A, et al. **Am J Cardiol** 1997 Mar 1;79(5):703–4

The reuse of single-use balloon angioplasty catheters: is it now legitimate? [editorial; comment] Bourassa MG. **Am J Cardiol** 1996 Sep 15;78(6):673–4. Comment on: Am J Cardiol 1996 Sep 15;78(6):717–9.

Transcatheter patent ductus arteriosus closure in an infant using the Gianturco-Grifka Vascular Occlusion Device. Grifka RG, et al. **Am J Cardiol** 1996 Sep 15;78(6):721–3

Prospective evaluation of a stiff shaft glide wire compared with the standard straight wire in crossing severely stenotic aortic valves. Sharma SK, et al. **Am J Cardiol** 1997 Jul 1;80(1):103–5

Left ventricular volumetric conductance catheter for rats. Ito H, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1509–14

An improved valve-spreading catheter for producing reversible graded acute aortic regurgitation. Ardehali A, et al. **Cardiology** 1996 Jul–Aug;87(4):276–8

Modified catheter shapes for engaging left coronary ostium in unusually wide ascending aortas [letter] Abhyankar AD. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):327

New technique using temporary balloon occlusion for transcatheter closure of patent ductus arteriosus with Gianturco coils. Dalvi B, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):62–70

Reduction of femoral artery bleeding post catheterization using a collagen enhanced fibrin sealant. Falstrom JK, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):79–84

Comparing quantitative analysis results across catheterization labs [letter; comment] Grady JK. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):228. Comment on: Cathet Cardiovasc Diagn 1996 Jan;37(1):24–31.

Angioplasty of chronic total coronary occlusions with the use of six French guiding catheters. Koch KT, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):255–60

Straightening a kinked guidewire extension. Koh TH. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):300–1

Local drug delivery [editorial] Lambert CR, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):231

Effect of prolonged blood contact time on deposition of cellular and amorphous material on teflon-coated guidewires: a scanning electron microscopy study. Moreyra AE, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):355–9

Equipment-dependent mechanical distortion of a tortuous right coronary artery during PTCA. Schlaifer JD, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):281–3

Case report: percutaneous removal of pulmonary artery thrombus in a patient with massive pulmonary embolism using the hydrolyser catheter: the first human experience. Michalis LK, et al. **Clin Radiol** 1997 Feb;52(2):158–61

Catheter mapping and ablation of ventricular tachycardia. Ganz LI, et al. **Coron Artery Dis** 1996 Jan;7(1):29–35 (30 ref.)

Problems encountered during introduction of Gianturco coils for transcatheter occlusion of the patent arterial duct [see comments] Galal O, et al. **Eur Heart J** 1997 Apr; 18(4):625–30. Comment in: Eur Heart J 1997 Apr;18(4):538–40.

The multi-track angiography catheter: a new tool for complex catheterisation in congenital heart disease. Bonhoeffer P, et al. **Heart** 1996 Aug;76(2):173–7

Reuse of disposables in the catheterization laboratory. Report of the committee appointed by the Cardiological Society of India. **Indian Heart J** 1997 May–Jun;49(3):329–31

Do 5-F-catheters reduce the incidence of a pseudoaneurysm? Zahn R, et al. **Int Angiol** 1996 Sep;15(3):257-60

Resting right ventricular function in patients with coronary artery disease: pressure volume analysis using conductance catheters. Bishop A, et al. **Int J Cardiol** 1997 Feb; 58(3):223-8

Clinical application of the conductance catheter technique in the adult human right ventricle. Bishop A, et al. **Int J Cardiol** 1997 Feb;58(3):211-21

Closure of residual leak after umbrella occlusion of the patent arterial duct, using Gianturco coils. de Moor M, et al. **Int J Cardiol** 1996 Sep;56(1):5-9

Testing the safety of Baxter continuous cardiac output monitoring system. Lichtenthal PR, et al. **J Clin Monit** 1996 May;12(3):243-9

A novel technique for long-term vascular access in the unrestrained rat. Gebhardt H, et al. **J Invest Surg** 1995 Nov-Dec;8(6):425-31

Development of an MRI-compatible catheter for pacing the heart: initial in vitro and in vivo results [see comments] Jerzewski A, et al. **J Magn Reson Imaging** 1996 Nov-Dec; 6(6):948-9. Comment in: J Magn Reson Imaging 1997 May-Jun;7(3):612.

Percutaneous removal of a fully expanded Wallstent from the right ventricle with transesophageal echocardiography guidance. Hartnell GG, et al. **J Vasc Interv Radiol** 1996 May-Jun;7(3):371-4

Removal of a fractured retention wire of an Accufix "J" pacemaker lead with an Amplatz goose neck snare. Saibil EA. **J Vasc Interv Radiol** 1996 May-Jun;7(3):367-9

Sheath detachment during coronary arteriogram. Coy J, et al. **Mil Med** 1996 Oct;161(10):632-4

Anatomical mechanisms that cause lead and catheter damage [letter; comment] Magney JE. **Pacing Clin Electrophysiol** 1996 Feb;19(2):257-8. Comment on: Pacing Clin Electrophysiol 1995 Sep;18(9 Pt 1):1597-600.

Multipolar endocardial mapping of the right heart using a basket catheter: acute and chronic animal studies. Triedman JK, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):51-9

Percutaneous retrieval of intracardiopulmonary artery metallic needle (Kirschner's wire): a case report. Aikawa H, et al. **Radiat Med** 1996 Nov-Dec;14(6):335-8

[Systematic use of 4 French catheters for left heart catheterization and coronary angiographies] Meyer P, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):35-40 (Eng. Abstr.) **(Fre)**

[Mechanical system of left ventricle cannulation: control of tightness by experimental left ventricular assistance] Bezon E, et al. **Chirurgie** 1996;121(6):447-52 (Eng. Abstr.) **(Fre)**

[New developments in parameter-oriented roentgen densitometry perfusion analysis within the scope of heart catheter studies] Haude M, et al. **Herz** 1997 Apr;22(2):72-86 (76 ref.) (Eng. Abstr.) **(Ger)**

[Monitoring critically ill intensive care patients by semi-invasive COLD (Cardiac-Output-Liver-Diseases) monitoring instead of pulmonary artery catheterization] Töns C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:349-52 (Eng. Abstr.) **(Ger)**

[Reduction of puncture-induced complications after heart catheterization by optimized compression technique despite reduced compression time. A prospective, duplex ultrasound and pressure controlled study] Sotiriou M, et al. **Med Klin** 1996 Sep 15;91(9):557-63 (Eng. Abstr.) **(Ger)**

[Estimation of radiation exposure and radiation risk for employees of a heart catheterization laboratory] Folkerts KH, et al. **Z Kardiol** 1997 Apr;86(4):258-63 (Eng. Abstr.) **(Ger)**

[Incidence and therapy of peripheral arterial vascular complications after heart catheter examinations] Heintzen MP, et al. **Z Kardiol** 1997 Apr;86(4):264-72 (Eng. Abstr.) **(Ger)**

[Flow rates of roentgen contrast media of different viscosity in 4.1 Charrière coronary catheters] Jung F, et al. **Z Kardiol** 1996 Aug;85(8):537-42 (Eng. Abstr.) **(Ger)**

[Radiation burden in invasive cardiac diagnosis: extent, factors of influence and references for minimizing radiation dosage] Kuon E, et al. **Z Kardiol** 1996 Aug;85(8):543-52 (Eng. Abstr.) **(Ger)**

[A new system for transvenous occlusion of persistent ductus arteriosus] Schräder R, et al. **Z Kardiol** 1997 Jan; 86(1):56-61 (Eng. Abstr.) **(Ger)**

[Individual archiving of digital angiocardiograms] Stiel GM, et al. **Z Kardiol** 1996 Aug;85(8):553-60 (Eng. Abstr.) **(Ger)**

[Atrial septal defect percutaneous transvenous occlusion with the buttoned device] Haddad J, et al. **Arq Bras Cardiol** 1996 Jul;67(1):17-22 (Eng. Abstr.) **(Por)**

METHODS

Evaluation of the significance of a transvalvular catheter on aortic valve gradient in aortic stenosis: a direct hemodynamic and Doppler echocardiographic study. Adele C, et al. **Am J Cardiol** 1997 Feb 15;79(4):513-6

Usefulness of atrial septostomy as a treatment for primary pulmonary hypertension and guidelines for its application. Rich S, et al. **Am J Cardiol** 1997 Aug 1;80(3):369-71

Use of electrocardiogram to position right atrial catheters during surgery. Watters VA, et al. **Ann Surg** 1997 Feb; 225(2):165-71

Direct right atrial catheter insertion with video-assisted thoracic surgery. Birnbaum PL, et al. **Ann Thorac Surg** 1996 Oct;62(4):1197

Venous drainage to the heart-lung machine via the internal jugular vein. Flege JB Jr, et al. **Ann Thorac Surg** 1997 Mar; 63(3):861

Surgical repair of a large residual atrial septal defect after transcatheter closure. Hekmat K, et al. **Ann Thorac Surg** 1997 May;63(5):1456-8

Transapical aortic cannulation in pediatric patients. Watanabe H, et al. **Ann Thorac Surg** 1997 Apr;63(4):1149-50

Inserting a temporary cardiac pacing wire: how to do it. Grahame-Clarke C. **Br J Hosp Med** 1997 Jun 4-17; 57(11):557-9

Frequency of a positive modified Allen's test in 1,000 consecutive patients undergoing cardiac catheterization. Benit E, et al. **Cathet Cardiovasc Diagn** 1996 Aug; 38(4):352-4

The cath lab bottom line: faster, cheaper, better, safer [editorial; comment] Linnemeier TJ. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):11. Comment on: Cathet Cardiovasc Diagn 1997 Sep;42(1):8-10.

The V-stent: a novel technique for coronary bifurcation stenting. Schampaert E, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):320-6

Early ambulation following 6 French diagnostic left heart catheterization: a prospective randomized trial [see comments] Wood RA, et al. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):8-10. Comment in: Cathet Cardiovasc Diagn 1997 Sep;42(1):11.

Fetoscopic and open transumbilical fetal cardiac catheterization in sheep. Potential approaches for human fetal cardiac intervention. Kohl T, et al. **Circulation** 1997 Feb 18;95(4):1048-53

Transvenous defibrillator systems implanted by electrophysiologists in the catheterization laboratory. Manolis AS, et al. **Clin Cardiol** 1997 Feb;20(2):117-24

Transradial artery coronary angiography and intervention in patients with severe peripheral vascular disease. de Belder AJ, et al. **Clin Radiol** 1997 Feb;52(2):115-8

Transcatheter coil occlusion of persistent ductus arteriosus using detachable steel coils: short-term results. Arora R, et al. **Indian Heart J** 1997 Jan-Feb;49(1):60-4

Palliative blade-balloon atrial septostomy in primary pulmonary hypertension. Fulwani M, et al. **Indian Heart J** 1997 Mar-Apr;49(2):185-6

Nonuniform anisotropy is responsible for age-related slowing of atrioventricular nodal reentrant tachycardia. Anselme F, et al. **J Cardiovasc Electrophysiol** 1996 Dec; 7(12):1145-53

Mapping of the coronary sinus and great cardiac vein using a 2-French electrode catheter and a right femoral approach. Cappato R, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):371-6

Effect of recording site on postpacing interval measurement during catheter mapping and entrainment of postinfarction ventricular tachycardia. Hadjis TA, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):398-404

Continuous monitoring of venous oxygen saturation in critically-ill infants. Ko WJ, et al. **J Formos Med Assoc** 1996 Mar;95(3):258-62

Intracardiac air clearing in valvular surgery guided by transesophageal echocardiography. Dalmas JP, et al. **J Heart Valve Dis** 1996 Sep;5(5):553-7

Transhepatic venous access for diagnostic and interventional cardiovascular procedures. Wallace MJ, et al. **J Vasc Interv Radiol** 1996 Jul-Aug;7(4):579-82

MPCRF: the Right Heart Catheterization Cooperative project. Fortune GJ, et al. **Mo Med** 1996 Oct;93(10):657-61

[The transcatheter closure of an interatrial defect (see comments)] Onorato E. **Cardiologia** 1996 Dec; 41(12):1215-9. Comment in: Cardiologia 1997 Mar;42(3):315-7. **(Ita)**

[Comparison of left ventricular pressure-volume loops measured by two-dimensional echocardiography and a conductance catheter] Nomura K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):37-41 (Eng. Abstr.) **(Jpn)**

[Catheter treatment of congenital heart defects. Arterial septal defects and open ductus arteriosus] Bjørnstad PG, et al. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2961-4 (Eng. Abstr.) **(Nor)**

[Coil embolization of persistent ductus arteriosus] Norgård G, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2311-3 (Eng. Abstr.) **(Nor)**

[Patent ductus Arteriosus closure with Gianturco coils] Chamié F, et al. **Arq Bras Cardiol** 1996 Jul;67(1):23-7 (Eng. Abstr.) **(Por)**

[Transrectal recatheterization under echocardiography control] Alonso R, et al. **Arch Inst Cardiol Mex** 1996 Sep-Oct;66(5):423-8 (Eng. Abstr.) **(Spa)**

[Diagnostic and interventional heart catheterization through the radial artery] Moguel R, et al. **Arch Inst Cardiol Mex** 1996 Sep-Oct;66(5):415-8 (Eng. Abstr.) **(Spa)**

NURSING

Managing outpatient cardiac catheterization. Montes P. **Am J Nurs** 1997 Aug;97(8):34-7

A comparison of structured versus guided preheart catheterization information on mood states and coping resources. Houston S, et al. **Appl Nurs Res** 1996 Nov; 9(4):189-94

Cardiac catheterisation performed by a clinical nurse specialist [see comments] Boulton BD, et al. **Heart** 1997 Aug;78(2):194-7. Comment in: Heart 1997 Aug;78(2):109.

Clinical nurse specialists in the catheter laboratory: a time for change or a bridge too far? [comment] Roberts DH. **Heart** 1997 Aug;78(2):109. Comment on: Heart 1997 Aug;78(2):194-7.

PSYCHOLOGY

A comparison of structured versus guided preheart catheterization information on mood states and coping resources. Houston S, et al. **Appl Nurs Res** 1996 Nov; 9(4):189-94

STANDARDS

Guidelines for internal peer review in the cardiac catheterization laboratory. Laboratory Performance Standards Committee, Society for Cardiac Angiography and Interventions. Heupler FA Jr, et al. **Cathet Cardiovasc Diagn** 1997 Jan;40(1):21-32 (74 ref.)

Medical necessity for right heart catheterization. Bing ML, et al. **Tex Heart Inst J** 1997;24(2):109-13

[Guidelines and recommendations for teaching and practice of cardiac catheterization. The working group for the establishment of guidelines in cardiac catheterization, Mexican Society of Cardiology] Gaspar J, et al. **Arch Inst Cardiol Mex** 1997 Jan-Feb;67(1):73-8 **(Spa)**

STATISTICS & NUMERICAL DATA

Coronary revascularization and cardiac catheterization in the United States: trends in racial differences. Gillum RF, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1557-62

Army Cardiac Unit — cardiac catheter patients, 1991--a review. Kiltie AE, et al. **J R Army Med Corps** 1994 Jun; 140(2):79-85

[Heart catheterization in Mexico. Results of the 1996 census of heart catheterization services by the Mexican Society of Cardiology] Gaspar H J, et al. **Arch Inst Cardiol Mex** 1996 Sep-Oct;66(5):449-54 (Eng. Abstr.) **(Spa)**

TRENDS

Five year trends in cardiac catheterization: a report from the Registry of the Society for Cardiac Angiography and Interventions. Krone RJ, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):31-5

[Quality assurance in invasive cardiology: Switzerland] Goerre S, et al. **Herz** 1996 Oct;21(5):283-7 (Eng. Abstr.) **(Ger)**

[Heart catheterization as present option in the treatment of congenital heart defects (editorial; comment)] Atik E. **Arq Bras Cardiol** 1996 Jul;67(1):29-30. Comment on: Arq Bras Cardiol 1996 Jul;67(1):off. **(Por)**

UTILIZATION

The impact of optimal stenting techniques on cardiac catheterization laboratory resource utilization and costs. Sukin CA, et al. **Am J Cardiol** 1997 Feb 1;79(3):275-80

Can we defend the bill of rights? [editorial; comment] Kahn JK. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):131. Comment on: Cathet Cardiovasc Diagn 1996 Feb;37(2):125-30.

Variation among cardiologists in the utilization of right heart catheterization at time of coronary angiography [see comments] Malone ML, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):125-30. Comment in: Cathet Cardiovasc Diagn 1996 Feb;37(2):131.

Long-term outcome in acute myocardial infarction patients admitted to hospitals with and without on-site cardiac catheterization facilities. MITI Investigators. Myocardial Infarction Triage and Intervention [see comments] Every NR, et al. **Circulation** 1997 Sep 16;96(6):1770-5. Comment in: Circulation 1997 Sep 16;96(6):1711-2.

Does the presence of an on-site cardiac catheterization facility in a hospital alter the long-term outcome of patients admitted with acute myocardial infarction? [editorial; comment] Schlant RC. **Circulation** 1997 Sep 16; 96(6):1711-2. Comment on: Circulation 1997 Sep 16;96(6):1770-5.

Time trends in the utilization of cardiac catheterization procedures in Italy, 1983-93. Favaretti C, et al. **Int J Technol Assess Health Care** 1996 Summer; 12(3):518-23

Prognostic value of noninvasive risk stratification in younger and older patients referred for evaluation of suspected coronary artery disease. Shaw LJ, et al. **J Am Geriatr Soc** 1996 Oct;44(10):1190-7

Racial differences in performance of invasive cardiac procedures in a Department of Veterans Affairs Medical Center. Sedlis SP, et al. **J Clin Epidemiol** 1997 Aug; 50(8):899-901

[Heart surgery in Austria 1995] Unger F. **Herz** 1996 Dec; 21(6):397-404 (Eng. Abstr.) **(Ger)**

[Report on structure and performance statistics of heart catheterization laboratories in Germany. Results of a survey of the Clinical Cardiology Committee of the German Society of Cardiology-Cardiovascular Research 1995] Gleichmann U, et al. **Z Kardiol** 1996 Dec;85(12):973-5 **(Ger)**

HEART CATHETERIZATION

VETERINARY

Surgical removal of heartworms from the right atrium of a cat. Borgarelli M, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):68–9

Transcatheter occlusion of a patent ductus arteriosus in a Newfoundland puppy using the Gianturco–Grifka vascular occlusion device. Grifka RG, et al. **J Vet Intern Med** 1996 Jan–Feb;10(1):42–4

HEART CONDUCTION SYSTEM

see related

ARRHYTHMIA

Transient ST-segment changes associated with mitral valvuloplasty using the Inoue balloon. Ludman PF, et al. **Am J Cardiol** 1997 Jun 15;79(12):1704–5

Relation of duration of ST reelevation at reperfusion and improvement of left ventricular function after successful primary angioplasty of the left anterior descending coronary artery in anterior wall acute myocardial infarction. Ochiai M, et al. **Am J Cardiol** 1997 Jun 15; 79(12):1667–70

Time-dependent change in fast pathway refractoriness after slow pathway ablation in atrioventricular node reentrant tachycardia. Mansfield Polaris Investigators. Krahn AD, et al. **Can J Cardiol** 1997 Jun;13(6):583–8

Protean patterns of gene expression in the heart conduction system [editorial] Schiaffino S. **Circ Res** 1997 May; 80(5):749–50

A prospective study of S–T segment depression in the electrocardiogram and mortality in the population. Corović N, et al. **Coll Antropol** 1997 Jun;21(1):157–66

Is diabetic heart muscle disease related to cardiac ischemia or autonomic neuropathy? Izumi T, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:77–83

Dynamics of QT dispersion during myocardial infarction and ischaemia. Glancy JM, et al. **Int J Cardiol** 1996 Nov 15; 57(1):55–60

Relationship between rate-corrected QT interval and wall motion abnormalities in the setting of acute myocardial infarction. Raev D. **Int J Cardiol** 1997 Aug 29;61(1):15–20

Thrombolysis and Q wave versus non-Q wave first acute myocardial infarction: a GUSTO-I substudy. Global Utilization of Streptokinase and Tissue Plasminogen Activator for Occluded Arteries Investigators. Barbagelata A, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):770–7

The electrocardiogram predicts one-year outcome of patients with unstable angina and non-Q wave myocardial infarction: results of the TIMI III Registry ECG Ancillary Study. Thrombolysis in Myocardial Ischemia. Cannon CP, et al. **J Am Coll Cardiol** 1997 Jul;30(1):133–40

Atypical atrioventricular node reciprocating tachycardia masquerading as tachycardia using a left-sided accessory pathway. Hwang C, et al. **J Am Coll Cardiol** 1997 Jul; 30(1):218–25

Thoracotomy elevates the defibrillation threshold and modifies the defibrillation dose-response curve. Friedman PA, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):68–73

Chemical cardiac sympathetic denervation hampers defibrillation in the dog. Ruffy R, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):62–7

Non-NMDA receptors transmit cardiopulmonary C fibre input in nucleus tractus solitarii in rats. Wilson CG, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):773–85

Conduction disturbances after different blood cardioplegia modes in coronary artery bypass grafting. Including comparison with an earlier patient series. Pehkonen EJ, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3–4):149–55

[Heart conduction system and accessory pathways] Shimada T, et al. **Nippon Rinsho** 1996 Aug;54(8):2029–34 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Clinico-pathological correlation in the indeterminate form of experimental Chagas' disease in dogs] Scalabrini A, et al. **Arq Bras Cardiol** 1996 Dec;67(6):385–8 (Eng. Abstr.) **(Por)**

[New method for the modulation of the atrioventricular conduction system in the treatment of atrial tachyarrhythmia. Preliminary study] Sousa L, et al. **Rev Port Cardiol** 1997 Mar;16(3):287–91 **(Por)**

[Bidomain model for estimation of myocardial electric generators and extracellular fields] Titimir LI, et al. **Biofizika** 1996 Sep–Oct;41(5):1125–36 (Eng. Abstr.) **(Rus)**

ABNORMALITIES

Long-term results of radiofrequency catheter ablation in patients with multiple accessory pathways. Huang JL, et al. **Am J Cardiol** 1996 Dec 15;78(12):1375–9

Sudden cardiac death associated with hypoplasia of the coronary arteries and conduction system alteration. Smith ET Jr, et al. **Am J Forensic Med Pathol** 1997 Jun; 18(2):189–93

Paradox of accessory pathway block after radiofrequency ablation in patients with the Wolff–Parkinson–White syndrome. Ueng KC, et al. **Angiology** 1996 Nov; 47(11):1061–71

Radiofrequency catheter ablation of a right atriofascicular (Mahaim) and two atrioventricular (Kent) accessory pathways in a single session. Hluchy J, et al. **Clin Cardiol** 1996 Sep;19(9):751–4

Radiofrequency catheter ablation of accessory pathways in association with congenital heart disease. Singh B, et al. **Indian Heart J** 1997 Mar–Apr;49(2):198–200

A new electrocardiographic algorithm using retrograde P waves for differentiating atrioventricular node reentrant tachycardia from atrioventricular reciprocating tachycardia mediated by concealed accessory pathway. Tai CT, et al. **J Am Coll Cardiol** 1997 Feb;29(2):394–402

Radiofrequency ablation of accessory pathways associated with congenital heart disease. van Hare GF. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2077–81 (28 ref.)

[Analysis of changes in repolarization for the differential diagnosis of narrow QRS supraventricular tachycardia and the site of the accessory pathway (see comments)] Fassini G, et al. **Cardiologia** 1996 Sep;41(9):869–75 (Eng. Abstr.) . Comment in: Cardiologia 1996 Sep;41(9):805–6. **(Ita)**

[Radiofrequency ablation of occult left accessory pathways without catheterization of the coronary sinus] Brugada J, et al. **Rev Esp Cardiol** 1997 Jan;50(1):36–41 (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

A quantitative assessment of innervation in the conduction system of the calf heart. Crick SJ, et al. **Anat Rec** 1996 Aug;245(4):685–98

Morphological classification of atrial muscle in the atrioventricular junctional area--3-dimensional reconstruction of serial sections of the human heart. Makishima N, et al. **Jpn Circ J** 1997 Jun;61(6):510–6

[Surgical landmarks of course of atrioventricular conduction system] Yamashiro T, et al. **Rinsho Kyobu Geka** 1989 Apr; 9(2):151–6 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Immunohistochemical expression of atrial natriuretic peptide (ANP) in the conducting system and internodal atrial myocardium of human hearts. Benvenuti LA, et al. **Acta Histochem** 1997 Jun;99(2):187–93

An mRNA encoding a putative GABA-gated chloride channel is expressed in the human cardiac conduction system. Garret M, et al. **J Neurochem** 1997 Apr; 68(4):1382–9

CYTOLOGY

Anatomy of medullary and peripheral autonomic neurons innervating the neonatal porcine heart. Hopkins DA, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2-3):74–84

DRUG EFFECTS

Effects of adenosine on wavelength of premature atrial complexes in patients without structural heart disease. Kabell G, et al. **Am J Cardiol** 1996 Dec 15;78(12):1443–6

Lack of arrhythmogenicity with ST-segment elevation during high-dose of dobutamine atropine stress in patients with documented or suspected coronary artery disease. Kamalesh M, et al. **Am J Cardiol** 1997 Aug 1;80(3):341–3

Electrophysiology and pharmacology of ibutilide. Naccarelli GV, et al. **Am J Cardiol** 1996 Oct 17;78(8A):12–6 (16 ref.)

Effects of isoproterenol in facilitating induction of slow–fast atrioventricular nodal reentrant tachycardia. Yu WC, et al. **Am J Cardiol** 1996 Dec 1;78(11):1299–302

Fluoxetine-induced cardiotoxicity with response to bicarbonate therapy. Graudins A, et al. **Am J Emerg Med** 1997 Sep;15(5):501–3

Histamine-sensitive intrinsic cardiac and intrathoracic extracardiac neurons influence cardiodynamics. Armour JA. **Am J Physiol** 1996 Apr;270(4 Pt 2):R906–13

Effect of carbon dioxide on autonomic cardiovascular responses to systemic hypoxia in conscious rats. Hirakawa H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R747–54

Enhanced responsiveness of cardiac vagal chemosensitive endings to bradykinin in heart failure. Schultz HD, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R637–45

Age-related propofol effects on electrophysiological properties of isolated hearts. Wu MH, et al. **Anesth Analg** 1997 May;84(5):964–71

Actions of phenylephrine, isoproterenol, and epinephrine with halothane on endocardial conduction and activation in canine left ventricular papillary muscles. Vodanovic S, et al. **Anesthesiology** 1997 Jul;87(1):117–26

Beta2-agonist induced ventricular dysrhythmias secondary to hyperexcitable conduction system in the absence of a long QT syndrome. Finn AF Jr, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):230–2

The role of intravenous amiodarone in the management of cardiac arrhythmias. Desai AD, et al. **Ann Intern Med** 1997 Aug 15;127(4):294–303 (71 ref.)

Modifications of antioxidant capacity and heart electrical activity induced by hydroperoxide in normal and vitamin E-fed rats. Di Meo S, et al. **Arch Physiol Biochem** 1997 Apr;105(2):175–82

The effect of epidural bupivacaine on the fetal electrocardiogram [letter; comment] Murray H. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):248–50. Comment on: Aust N Z J Obstet Gynaecol 1996 Aug;36(3):272–4.

The effect of epidural bupivacaine on the fetal electrocardiogram [see comments] Phillips K, et al. **Aust N Z J Obstet Gynaecol** 1996 Aug;36(3):272–4. Comment in: Aust N Z J Obstet Gynaecol 1997 May;37(2):248–50.

Involvement of the calcium inward current in cardiac impulse propagation: induction of unidirectional conduction block by nifedipine and reversal by Bay K 8644. Rohr S, et al. **Biophys J** 1997 Feb;72(2 Pt 1):754–66

Cardiac conduction with diltiazem and beta-blockade combined. A review and report on cases. Kjeldsen SE, et al. **Blood Press** 1996 Sep;5(5):260–3 (29 ref.)

Comparative direct electrophysiological effects of propofol on the conduction system and ionic channels of rabbit hearts. Wu MH, et al. **Br J Pharmacol** 1997 Jun; 121(4):617–24

Effects of procainamide on the excitable gap composition in a canine model of atrial flutter. Jalil E, et al. **Can J Physiol Pharmacol** 1997 Jan;75(1):1–8

Electrophysiological effects of propofol on the normal cardiac conduction system. Pires LA, et al. **Cardiology** 1996 Jul–Aug;87(4):319–24

Electromechanical dissociation following verapamil and propranolol ingestion: a physiologic profile. Waxman AB, et al. **Cardiology** 1997 Sep–Oct;88(5):478–81

Effects of AWD 23–111, a new antiarrhythmic substance, on cardiac conduction and refractoriness. Stark U, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):531–8

Acute effects of beta 1-selective and nonselective beta-adrenergic receptor blockade on cardiac sympathetic activity in congestive heart failure. Newton GE, et al. **Circulation** 1996 Aug 1;94(3):353–8

Effect of phenylephrine infusion on atrial electrophysiological properties. Leitch JW, et al. **Heart** 1997 Aug;78(2):166–70

Preferential action of mexiletine on central common pathway of reentrant ventricular tachycardia. Aizawa Y, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1759–64

Optical mapping of drug-induced polymorphic arrhythmias and torsade de pointes in the isolated rabbit heart [see comments] Asano Y, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):831–42. Comment in: J Am Coll Cardiol 1997 Mar 15;29(4):843–5.

Propafenone during acute myocardial ischemia in patients: a double-blind, randomized, placebo-controlled study. Faber TS, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):561–7

Electrophysiologic effects of sodium channel blockade on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by flecainide versus disopyramide or lidocaine. Kondo T, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1639–44

Amiodarone instilled into the canine pericardial sac migrates transmurally to produce electrophysiologic effects and suppress atrial fibrillation. Ayers GM, et al. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):713–21

Effect of coronary perfusion of heptanol on conduction and ventricular arrhythmias in infarcted canine myocardium. Callans DJ, et al. **J Cardiovasc Electrophysiol** 1996 Dec; 7(12):1159–71

The effects of isoproterenol on the cardiac conduction system: site-specific dose dependence. Cossú SF, et al. **J Cardiovasc Electrophysiol** 1997 Aug;8(8):847–53

Modulation of procainamide's effect on conduction by cellular uncoupling in perfused rabbit hearts. Spear JF, et al. **J Cardiovasc Electrophysiol** 1997 Feb;8(2):199–214

Electrophysiologic effects of a class I antiarrhythmic agent, cibenzoline, on the refractoriness and conduction of the human atrium in vivo. Esato M, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):321–7

Electrophysiologic effects of SD-3212, a new class I antiarrhythmic drug, on canine atrial flutter and atrial action-potential characteristics. Fujiki A, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):471–5

Changes in atrioventricular conduction properties with refractory-period modulation. Hewett KW, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):824–32

Effect of ethanol, haloperidol, and lorazepam on cardiac conduction and contraction. Medlin RP Jr, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):792–8

Electrophysiological effects of clentiazem, a new Ca2+ antagonist, on rabbit hearts. Miyazaki K, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):615–21

Hypertonic saline does not reverse the sodium channel blocking actions of lidocaine: evidence from electrophysiologic and defibrillation studies. Ujhelyi MR, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):61–8

Effects of magnesium and potassium on Wolff–Parkinson–White syndrome. Sideris AM, et al. **J Electrocardiol** 1996 Jan;29(1):11–5

Haemodynamics, cardiac conduction and pharmacokinetics of mibefradil (Ro 40–5967), a novel calcium antagonist. Petrie JR, et al. **J Hypertens** 1995 Dec;13(12 Pt 2):1842–6

Segment-specific effects of FMRFamide on membrane properties of heart interneurons in the leech. Schmidt J, et al. **J Neurophysiol** 1995 Oct;74(4):1485–97

Effects of active chronic cocaine use on cardiac sympathetic neuronal function assessed by carbon-11-hydroxyephedrine. Melon PG, et al. **J Nucl Med** 1997 Mar;38(3):451–6

Effects of long-term oral administration of amiodarone on the ventricular repolarization of rabbit hearts. Iwata H, et al. **Jpn Circ J** 1996 Sep;60(9):662–72

Effects of class IA antiarrhythmic drugs on the reentrant circuit in common human atrial flutter. Ohga N, et al. **Jpn Circ J** 1995 Dec;59(12):799–807

Action of antiarrhythmic agents on the area of slow

conduction in ventricular tachycardia. Aizawa Y, et al. **Jpn Heart J** 1996 Sep;37(5):773–84 (24 ref.)
Role of the renin–angiotensin system on cardiac diseases. De Mello WC. **P R Health Sci J** 1996 Sep;15(3):193–4
Effects of isoflurane on electrophysiological measurements in children with the Wolff–Parkinson–White syndrome. Chang RK, et al. **Pacing Clin Electrophysiol** 1996 Jul; 19(7):1082–8
Electrophysiological effects of E 4031, a drug with selective class III properties, in man. Katritsis D, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):930–7
Influence of duration of rapid ventricular pacing on ventricular refractoriness in the presence of propafenone and lidocaine. Stark U, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):43–50
Tetrodotoxin-sensitive inactivation-resistant sodium channels in pacemaker cells influence heart rate. Ju Y, et al. **Pflugers Arch** 1996 Apr;431(6):868–75
Conduction disturbances associated with administration of butyrophenone antipsychotics in the critically ill: a review of the literature. Lawrence KR, et al. **Pharmacotherapy** 1997 May–Jun;17(3):531–7 (45 ref.)
[Effects of anesthesia with inhalation anesthetics on excitation, conduction and refractory parameters of the heart. Experiments in dogs] Hahn N, et al. **Arzneimittelforschung** 1996 Mar;46(3):251–6 (Eng. Abstr.) **(Ger)**
[The effect of naloxone on rhythm disorders and on the conduction system of the heart] Shliakhto EV, et al. **Eksp Klin Farmakol** 1996 May–Jun;59(3):34–6 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Differential expression of PSA–NCAM and HNK–1 epitopes in the developing cardiac conduction system of the chick. Chuck ET, et al. **Dev Dyn** 1997 Jun;209(2):182–95
Spatial and temporal shifts in the regulation of neurogenesis in a peripheral ganglion. Heathcote RD. **J Comp Neurol** 1996 Nov 18;375(3):457–66
Development of the conduction system of the heart. Moorman AF, et al. **Pacing Clin Electrophysiol** 1997 Aug; 20(8 Pt 2):2087–92 (27 ref.)

IMMUNOLOGY

[The amino acid composition of the antigenic structures of the human heart conduction system] Bobrov VA, et al. **Ukr Biokhim Zh** 1996 Mar–Apr;68(2):48–50 (Eng. Abstr.) **(Rus)**

METABOLISM

Diastolic SR Ca efflux in atrial pacemaker cells and Ca–overloaded myocytes. Bassani RA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H886–92
Skeletal muscle-specific myosin binding protein-H is expressed in Purkinje fibers of the cardiac conduction system. Alyonycheva T, et al. **Circ Res** 1997 May; 80(5):665–72
Effects of denervation on acetylcholine receptor clusters on frog cardiac ganglion neurons as revealed by quantitative laser scanning confocal microscopy. Horch HL, et al. **J Neurosci** 1996 Mar 1;16(5):1720–9
Measurement of functional cholinergic innervation in rat heart with a novel vesamicol receptor ligand. Coffeen PR, et al. **Nucl Med Biol** 1996 Oct;23(7):923–6

PATHOLOGY

The upper turnover site in the reentry circuit of common atrial flutter. Tsuchiya T, et al. **Am J Cardiol** 1996 Dec 15;78(12):1439–42
Electrical injury to the heart may cause long-term damage to conducting tissue: a hypothesis and review of the literature. Robinson NM, et al. **Int J Cardiol** 1996 Mar; 53(3):273–7 (20 ref.)
Dimension and related anatomical distance of Koch's triangle in patients with atrioventricular nodal reentrant tachycardia. Ueng KC, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1017–23
Nomenclature and characterization of transisthmus conduction after ablation of typical atrial flutter [editorial] Barold SS, et al. **Pacing Clin Electrophysiol** 1997 Jul; 20(7):1751–3
The conduction system in sudden death in Alaskan sled dogs during the Iditarod race and/or during training. Bharati S, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):654–63
Electrocardiographic identification of mid–septal accessory pathways in close proximity to the atrioventricular conduction system. Lorga Filho A, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1984–7
[Lev's disease] Okada R. **Ryoikibetsu Shokogun Shirizu** 1996; (15):515–8 (20 ref.) **(Jpn)**
[Lenegre's disease] Suzuki H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):512–4 (13 ref.) **(Jpn)**

PHYSIOLOGY

Cardiac pacemaker: 15 years of "new" interpretation. DiFrancesco D. **Acta Cardiol** 1995;50(6):413–27 (50 ref.)
Studies of the electrical activity of the ventricles and the origin of the QRS complex. Scher AM. **Acta Cardiol** 1995; 50(6):429–65 (68 ref.)
Autoregressive analysis of cardiac RR intervals in preterm and full–term infants. Nyu A, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):37–43
Gender–specific differences in the QT interval and the effect of autonomic tone and menstrual cycle in healthy adults. Burke JH, et al. **Am J Cardiol** 1997 Jan 15;79(2):178–81
Paradoxical failure of QT prolongation during cardioinhibitory neurocardiogenic syncope [see comments] Jaeger FJ Jr, et al. **Am J Cardiol** 1997 Jan 1;79(1):100–2 . Comment in: Am J Cardiol 1997 Jul 1;80(1):110.
Effect of varying pacing waveform shapes on propagation and hemodynamics in the rabbit heart. Thakor NV, et al. **Am J Cardiol** 1997 Mar 20;79(6A):36–43
Cardiac sympathetic premotor neurons. Campos RR, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R615–20
Effects of vestibular and oculomotor stimulation on responsiveness of the carotid–cardiac baroreflex. Convertino VA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R615–22
Vagal withdrawal as a function of audience. De Meersman R, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1381–3
Response to cardiac sympathetic activation in transgenic mice overexpressing beta 2–adrenergic receptor. Du XJ, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H630–6
Electrode for recording direction of activation, conduction velocity, and monophasic action potential of myocardium. Horner SM, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1917–27
Effect of phasic vagal stimulation and atrial pacing site on atrioventricular conduction time. Igel DA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2289–98
Neurally mediated cardiac effects of forskolin in conscious dogs. Iwase M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1473–82
Electrophysiological–anatomic correlates of ATP-triggered vagal reflex in the dog. III. Role of cardiac afferents. Katchanov G, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1785–90
Parasympathetic denervation supersensitivity of the transplanted human ventricle in vivo. Koglin J, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H435–9
Role of nitrosyl factors in the hemodynamic adjustments to heat stress in the rat. Kregel KC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1537–43
Roles of carotid baroreceptor and cardiac afferents in hemodynamic responses to acute central hypovolemia. Ludbrook J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1538–48
Firing properties of identified parasympathetic cardiac neurons in nucleus ambiguus. Mendelowitz D. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2609–14
Glucose ingestion affects cardiac ANS in healthy subjects with different amounts of body fat. Paolisso G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E471–8
Diurnal and seasonal changes in sympathetic signal transduction in cardiac ventricles of European hamsters. Pleschka K, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R304–9
Interactions between sympathetic and vagal cardiac afferents in nucleus tractus solitarii. Tjen–A–Looi S, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2843–51
Influence of graft innervation on neovascularization of embryonic heart tissue grafted in oculo. Torry RJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H33–7
Effects of right ventricular pacing on ventriculoatrial conduction and systemic venous responses in sick sinus patients. Kong CW, et al. **Angiology** 1996 Oct;47(10):973–80
A finite volume model of cardiac propagation. Harrild DM, et al. **Ann Biomed Eng** 1997 Mar–Apr;25(2):315–34
Biphasic transthoracic defibrillation causes fewer ECG ST–segment changes after shock. Reddy RK, et al. **Ann Emerg Med** 1997 Aug;30(2):127–34
High resolution ECG changes among Finnish pilots. Hyvämäki EJ, et al. **Aviat Space Environ Med** 1996 Mar; 67(3):269–71
Modulation of pacemaker activity in sheep cardiac Purkinje fibers by stimulation of beta–adrenoceptor subtypes. Thome U, et al. **Basic Res Cardiol** 1997 Feb;92(1):25–34
A quasi–one–dimensional theory for anisotropic propagation of excitation in cardiac muscle. Wu J, et al. **Biophys J** 1996 Nov;71(5):2427–39
Role of wavefront curvature in propagation of cardiac impulse. Fast VG, et al. **Cardiovasc Res** 1997 Feb; 33(2):258–71 (86 ref.)
Does parallel conductance vary during systole in the human right ventricle? White PA, et al. **Cardiovasc Res** 1996 Nov; 32(5):901–8
A cellular mechanism contributing to postvagal tachycardia studied in isolated pacemaker cells from cat right atrium. Wang YG, et al. **Circ Res** 1996 Jul;79(1):109–14
Safety of atrial defibrillation shocks synchronized to narrow and wide QRS complexes during atrial pacing protocols simulating atrial fibrillation in dogs. Keelan ET, et al. **Circulation** 1997 Sep 16;96(6):2022–30
Voltage sum of filtered ECG signal—a sensitive parameter of ventricular activation. Slavkovsky P, et al. **Comput Methods Programs Biomed** 1996 Jun;50(1):1–11
Dispersion of repolarization following double and triple programmed stimulation. A clinical study using the monophasic action potential recording technique. Yuan S, et al. **Eur Heart J** 1996 Jul;17(7):1080–91
Morphology of the coronary sinus and contemporary cardiac electrophysiology. Grzybiak M. **Folia Morphol (Warsz)** 1996;55(4):272–3
The transient far–field response of a discontinuous one–dimensional cardiac fiber to subthreshold stimuli. Fishler MG. **IEEE Trans Biomed Eng** 1997 Jan;44(1):10–8
Correlation between late potentials duration and QTc dispersion: Is there a causal relationship? Ducceschi V, et al. **Int J Cardiol** 1996 Mar;53(3):285–90
Efficiency of heating during radiofrequency catheter ablation of accessory atrioventricular pathways. Wen ZC, et al. **Int J Cardiol** 1996 Mar;53(3):279–83
Barosensitive cardioinhibitory neurons in the medulla: comparison of FosB/ChAT–positive neurons with CT–HRP–labeled neurons. Okada J, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):85–90
Effects of cardiac autonomic imbalance on postnatal changes in the electrocardiographic Q–T interval in conscious swine. Tong S, et al. **J Auton Nerv Syst** 1997 Jun 6; 64(2–3):162–5
Electrophysiology of the right anterior approach to the atrioventricular node: studies in vivo and in the isolated perfused dog heart. Antz M, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):47–61
Effects of 2,3–butanedione monoxime on atrial–atrioventricular nodal conduction in isolated rabbit heart. Cheng Y, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):790–802
Activation and repolarization patterns are governed by different structural characteristics of ventricular myocardium: experimental study with voltage–sensitive dyes and numerical simulations. Efimov IR, et al. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):512–30
Structural determinants of slow conduction in the canine sinus node. Saffitz JE, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):738–44
Effects of heating with radiofrequency power on myocardial impulse conduction: is radiofrequency ablation exclusively thermally mediated? Simmers TA, et al. **J Cardiovasc Electrophysiol** 1996 Mar;7(3):243–7
Influence of alpha–adrenergic–receptor activation on junctional conductance in heart cells: interaction with beta–adrenergic adrenergic agonists. De Mello WC. **J Cardiovasc Pharmacol** 1997 Feb;29(2):273–7
Atrioventricular junctional rhythm induced by sympathetic stimulation in E–4031–treated dog hearts. Imamura H, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):507–12
Improved ECG models for left ventricular mass adjusted for body size, with specific algorithms for normal conduction, bundle branch blocks, and old myocardial infarction. Rautaharju PM, et al. **J Electrocardiol** 1996;29 Suppl:261–9
A technique for conducting noninvasive cardiac electrophysiology studies in conscious swine. Smith AC, et al. **J Invest Surg** 1997 Jan–Apr;10(1–2):25–9
Arachidonic–acid–activated membrane conductances in dissociated cardiac parasympathetic neurons from Necturus. Mulvaney JM, et al. **J Neurophysiol** 1995 Oct; 74(4):1621–7
Activation of intrinsic and synaptic currents in leech heart interneurons by realistic waveforms. Olsen OH, et al. **J Neurosci** 1996 Aug 15;16(16):4958–70
Reflex cardiac dromotropic responses to stimulation of the carotid and aortic chemoreceptors in the anaesthetized cat. Jones JF, et al. **J Physiol (Lond)** 1997 Jul 15;502 (Pt 2):461–7
Conduction block and chaotic dynamics in an asymmetrical model of coupled cardiac cells. Landau M, et al. **J Theor Biol** 1997 May 7;186(1):93–105
One–dimensional modelling of the vulnerability to re–entry of homogeneous atrial tissue. Zhang H, et al. **J Theor Biol** 1997 Jan 21;184(2):117–22
Effects of ischemic preconditioning on ventricular arrhythmias during ischemia and reperfusion using a retrograde blood flow model in dogs. Oka Y, et al. **Jpn Circ J** 1997 Jun;61(6):517–24
Optical mapping of conduction patterns of normal and tachycardia–like excitations in the rat atrium. Sakai T, et al. **Jpn J Physiol** 1997 Apr;47(2):179–88
Integral curves and the variational principle of intermittent normal conduction in the tachycardia–dependent right bundle branch block. Izumi K. **Mater Med Pol** 1996 Apr–Jun;28(2):57–63
Separation of cardiac conduction system and atrial activities by spatial regression. Kawaoka PY, et al. **Med Eng Phys** 1996 Jan;18(1):45–50
The use of left ventricular epicardial surface velocity patterns as a marker of pacing site. McInerney JJ, et al. **Pacing Clin Electrophysiol** 1997 Jun;20(6):1619–27
Tetrodotoxin–sensitive inactivation–resistant sodium channels in pacemaker cells influence heart rate. Ju Y, et al. **Pflugers Arch** 1996 Apr;431(6):868–75
Paradoxical improvement of impulse conduction in cardiac tissue by partial cellular uncoupling. Rohr S, et al. **Science** 1997 Feb 7;275(5301):841–4
[Atrioventricular conduction time in premature infants is about half of that in adults] van Wezel–Meijler G, et al. **Ned Tijdschr Geneeskd** 1997 Feb 1;141(5):244–7 (Eng. Abstr.) **(Dut)**
[Model based study of myocardial stimulation mechanisms] Weiss I, et al. **Biomed Tech (Berl)** 1997 Jan–Feb; 42(1–2):16–23 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Effect of electrophysiologic properties and location of manifest accessory pathways on local electrogram intervals at effective radiofrequency ablation sites. Vorperian VR, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):173–80

Origin of junctional rhythm during radiofrequency ablation of atrioventricular nodal reentrant tachycardia in patients without structural heart disease. Boyle NG, et al. **Am J Cardiol** 1997 Sep 1;80(5):575–80

Preservation of autonomic function following successful reperfusion with streptokinase within 12 hours of the onset of acute myocardial infarction. Kelly PA, et al. **Am J Cardiol** 1997 Jan 15;79(2):203–5

Transient leftward QRS axis shift during treadmill exercise testing or percutaneous transluminal coronary angioplasty is a highly specific marker of proximal left anterior descending coronary artery disease. Kodama K, et al. **Am J Cardiol** 1997 Jun 1;79(11):1530–4

Ischemic-like ST-segment changes during Holter monitoring in patients with angina pectoris and normal coronary arteries but negative exercise testing. Lanza GA, et al. **Am J Cardiol** 1997 Jan 1;79(1):1–6

Systolic and diastolic effects of variable atrioventricular delay in patients with complete heart block and normal ventricular function. Leonelli FM, et al. **Am J Cardiol** 1997 Aug 1;80(3):294–8

Clinical significance of an equivocal signal-averaged electrocardiogram. Nelson SD, et al. **Am J Cardiol** 1997 Jun 1;79(11):1541–3

Prognostic value of slow resolution of ST-segment elevation following successful direct percutaneous transluminal coronary angioplasty for recovery of left ventricular function. Somitsu Y, et al. **Am J Cardiol** 1997 Aug 15; 80(4):406–10

Sympathovagal balance of the heart in subjects with spinal cord injury. Grimm DR, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H835–42

Effect of carbon dioxide on autonomic cardiovascular responses to systemic hypoxia in conscious rats. Hirakawa H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R747–54

Cardiac sympathetic afferent reflex in dogs with congestive heart failure. Wang W, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R751–6

Conduction disturbances in acute myocardial infarction: incidence, site-wise relationship and the influence on in-hospital prognosis. Majumder AA, et al. **Bangladesh Med Res Counc Bull** 1996 Aug;22(2):74–80

Utility of full electrophysiological study before accessory pathway ablation in Wolff-Parkinson-White syndrome. Rosenbaum M, et al. **Can J Cardiol** 1997 Apr;13(4):359–62

Electromechanical dissociation following verapamil and propranolol ingestion: a physiologic profile. Waxman AB, et al. **Cardiology** 1997 Sep-Oct;88(5):478–81

Retrograde atrio-His bundle dissociation as a sign indicative of retrograde accessory pathway conduction. Wang CH, et al. **Chang Keng I Hsueh** 1996 Mar;19(1):62–5

Shock-induced depolarization of refractory myocardium prevents wave-front propagation in defibrillation. Kwaku KF, et al. **Circ Res** 1996 Nov;79(5):957–73

Electrophysiologic effects of acute myocardial ischemia. A mechanistic investigation of action potential conduction and conduction failure. Shaw RM, et al. **Circ Res** 1997 Jan;80(1):124–38

Three-dimensional mapping of the initiation of nonsustained ventricular tachycardia in the human heart. Chung MK, et al. **Circulation** 1997 Jun 3;95(11):2517–27

Effect of atrial fibrillation on atrial refractoriness in humans. Daoud EG, et al. **Circulation** 1996 Oct 1;94(7):1600–6

Differential effects of changes in local myocardial refractoriness on atrial and ventricular latency. Fananapazir L, et al. **Circulation** 1996 Sep 15;94(6):1364–71

Importance of location and timing of electrical stimuli in terminating sustained functional reentry in isolated swine ventricular tissues: evidence in support of a small reentrant circuit. Kamjoo K, et al. **Circulation** 1997 Sep 16; 96(6):2048–60

Abnormal cardiac adrenergic nerve function in patients with syndrome X detected by [123I]metaiodobenzylguanidine myocardial scintigraphy. Lanza GA, et al. **Circulation** 1997 Aug 5;96(3):821–6

Coronary angiographic characteristics of patients with permanent artificial pacemakers. Mosseri M, et al. **Circulation** 1997 Aug 5;96(3):809–15

Site-dependent intra-atrial conduction delay. Relationship to initiation of atrial fibrillation. Papageorgiou P, et al. **Circulation** 1996 Aug 1;94(3):384–9

Termination of ventricular tachycardia in the human heart. Insights from three-dimensional mapping of nonsustained and sustained ventricular tachycardias. Pogwizd SM, et al. **Circulation** 1997 Jun 3;95(11):2528–40

The atrial flutter reentrant circuit. Additional pieces of the puzzle [editorial; comment] Van Hare GF, et al. **Circulation** 1996 Aug 1;94(3):244–6. Comment on: Circulation 1996 Aug 1;94(3):398–406. Comment on: Circulation 1996 Aug 1;94(3):407–24.

Cardiac vagal reflex modulates intestinal vascular capacitance and ventricular preload in anesthetized dogs with acute myocardial infarction. Wang SY, et al. **Circulation** 1996 Aug 1;94(3):529–33

Atrial double potentials associated with a left-sided accessory pathway having a single ventricular and two remote atrial insertions. Hluchy J, et al. **Clin Cardiol** 1997 Mar; 20(3):303–7

High prevalence of repolarization abnormalities in children with simple ventricular ectopy. Miga DE, et al. **Clin Cardiol** 1996 Sep;19(9):726–8

The syndrome of right bundle branch block, persistent ST segment elevation and sudden cardiac death. Which is the histological substrate? [letter] Morgera T, et al. **Eur Heart J** 1997 Jul;18(7):1190–1

The mechanism of catecholaminergic polymorphic ventricular tachycardia may be triggered activity due to delayed afterdepolarization [letter] Nakajima T, et al. **Eur Heart J** 1997 Mar;18(3):530–1

Dispersion of ventricular repolarization in dilated cardiomyopathy. Zaidi M, et al. **Eur Heart J** 1997 Jul; 18(7):1129–34

Malignant cardiac involvement in a family with myotonic dystrophy. Melillo G, et al. **G Ital Cardiol** 1996 Aug; 26(8):853–61

QTc and not QTc dispersion behavior affects the occurrence of ventricular extrasystole during exercise in infarcted patients. Ducceschi V, et al. **Heart Vessels** 1997;12(1):27–33

Abnormal QT dispersion in Behçet's disease. Göldeli O, et al. **Int J Cardiol** 1997 Aug 29;61(1):55–9

Absent septal q wave on electrocardiogram: a forgotten marker of myocardial disease. Xiao HB, et al. **Int J Cardiol** 1996 Jan;53(1):1–4 (27 ref.)

Myocardial sympathetic denervation prevents chamber-specific alteration of beta-adrenergic transmembrane signaling in rabbits with heart failure. Anzai T, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1314–22

Twisting of the points [editorial; comment] Lazzara R. **J Am Coll Cardiol** 1997 Mar 15;29(4):843–5. Comment on: J Am Coll Cardiol 1997 Mar 15;29(4):831–42.

QT dispersion as a marker of risk in patients awaiting heart transplantation. Pinsky DJ, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1576–84

Left ventricular hypertrophy in hypertensive patients is associated with abnormal rate adaptation of QT interval. Singh JP, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):778–84

Exploring postinfarction reentrant ventricular tachycardia with entrainment mapping. Stevenson WG, et al. **J Am Coll Cardiol** 1997 May;29(6):1180–9

QRS changes during percutaneous transluminal coronary angioplasty and their possible mechanisms. Surawicz B, et al. **J Am Coll Cardiol** 1997 Aug;30(2):452–8

Transvenous defibrillators without EP testing [letter; comment] Belhassen B. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):790–3. Comment on: J Cardiovasc Electrophysiol 1996 Mar;7(3):197–202. Comment on: J Cardiovasc Electrophysiol 1996 Mar;7(3):203–10.

Recurrence of conduction following radiofrequency catheter ablation procedures: relationship to ablation target and electrode temperature. The Atakr Multicenter Investigators Group. Calkins H, et al. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):704–12

Electrophysiologic characteristics and anatomical complexities of accessory atrioventricular pathways with successful ablation of anterograde and retrograde conduction at different sites. Chen SA, et al. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):907–15

Long reflections on the QT interval: the sixth annual Gordon K. Moe Lecture [see comments] James TN. **J Cardiovasc Electrophysiol** 1996 Aug;7(8):738–59 (109 ref.) . Comment in: J Cardiovasc Electrophysiol 1996 Aug;7(8):777–84.

Conduction properties of the inferior vena cava–tricuspid annular isthmus in patients with typical atrial flutter. Kinder C, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):727–37

Demonstration of retrograde conduction over an atriofascicular accessory pathway. Kreiner G, et al. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):74–9

Abnormal action potential conduction in isolated human hypertrophied left ventricular myocardium. McIntyre H, et al. **J Cardiovasc Electrophysiol** 1997 Aug;8(8):887–94

AV nodal function during atrial fibrillation: the role of electrotonic modulation of propagation. Meijler FL, et al. **J Cardiovasc Electrophysiol** 1996 Sep;7(9):843–61 (59 ref.)

Paroxysmal supraventricular tachycardia in a patient with ventriculoatrial dissociation in the baseline state: what is the tachycardia mechanism? Morady F. **J Cardiovasc Electrophysiol** 1997 Jan;8(1):117–9

Conduction barriers in human atrial flutter: correlation of electrophysiology and anatomy. Olgin JE, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1112–26 (73 ref.)

Prevalence of retrograde accessory pathway conduction during atrial fibrillation. Ong JJ, et al. **J Cardiovasc Electrophysiol** 1997 Apr;8(4):377–87

Defibrillation shocks over epicardial patches produce sympathetic neural dysfunction in man. Rigden LB, et al. **J Cardiovasc Electrophysiol** 1996 May;7(5):398–405

Slow ventricular conduction in mice heterozygous for a connexin43 null mutation. Guerrero PA, et al. **J Clin Invest** 1997 Apr 15;99(8):1991–8

Neurally mediated syncope: a review of cardiac and arterial receptors. Grimm DR. **J Clin Neurophysiol** 1997 May; 14(3):170–82 (142 ref.)

Mechanism of tachycardia-dependent appearance of ventricular extrasystoles in concealed bigeminy. Kinoshita S, et al. **J Electrocardiol** 1996 Oct;29(4):341–5 (16 ref.)

Electrophysiologic differences in young patients with atrial fibrillation. Influence of preexcitation. Misra A, et al. **J Electrocardiol** 1996 Jul;29(3):185–8

Manifest and concealed AV nodal reentry in Wenckebach type of AV conduction with AV junctional escape rhythm. Oreto G, et al. **J Electrocardiol** 1996 Oct;29(4):333–6 (11 ref.)

Electrophysiologic abnormalities of cardiac function in progressive systemic sclerosis. Rokas S, et al. **J Electrocardiol** 1996 Jan;29(1):17–25

Abnormal ambulatory electrocardiographic findings in patients with the Marfan syndrome. Savolainen A, et al. **J Intern Med** 1997 Mar;241(3):221–6

A congenital heart defect in Drosophila caused by an action-potential mutation. Dowse H, et al. **J Neurogenet** 1995 Dec;10(3):153–68

Tsutsugamushi myocarditis with congestive heart failure and persistent atrial standstill. Jeong MH, et al. **Jpn Circ J** 1996 Jun;60(6):382–8

Selective radiofrequency catheter ablation of the slow pathway for common and uncommon atrioventricular nodal reentrant tachycardia. Iesaka Y, et al. **Jpn Heart J** 1996 Sep;37(5):759–70

Fusion with postpaced return cycle identical to tachycardia cycle length during transient entrainment of ventricular tachycardia and its implications. Kitazawa H, et al. **Jpn Heart J** 1997 May;38(3):369–78

Integral curves and the variational principle of intermittent normal conduction in the tachycardia-dependent right bundle branch block. Izumi K. **Mater Med Pol** 1996 Apr-Jun;28(2):57–63

Optimal control of intermittent normal conduction in a tachycardia-dependent right bundle branch block. Izumi K. **Mater Med Pol** 1996 Oct-Dec;28(4):141–8

Childhood-onset autosomal-dominant limb-girdle muscular dystrophy with cardiac conduction block. Fang W, et al. **Muscle Nerve** 1997 Mar;20(3):286–92

Mechanisms in adrenergic dependent onset of torsades de pointes. Abildskov JA, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):88–94

Diagnosis of retrograde ventriculoatrial conduction by left atrial appendage Doppler flow analysis. Bhagwat AR, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1257–9

Spirals, chaos, and new mechanisms of wave propagation. Chen PS, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):414–21 (66 ref.)

Transient entrainment: the evolution of a medical concept from description to prescription. Cooper MW. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1162–76

Exercise induced sympathetic influences do not change interatrial conduction times in VDD and DDD pacing. Ismer B, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1786–90

Effect of intraatrial reentry on initiation of atrioventricular reentrant tachycardia. Odakura H, et al. **Pacing Clin Electrophysiol** 1996 Jul;19(7):1070–4

Atrial electrophysiological features in patients with Wolff-Parkinson-White and atrial fibrillation: absence of rate adaptation of intraatrial conduction time parameters. Riccardi R, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1318–27

Quantitative analysis of concealed conduction into accessory atrioventricular pathways in Wolff-Parkinson-White syndrome. Tanaka K, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1342–53

Cardiac baroreceptor sensitivity is impaired after acute stroke. Robinson TG, et al. **Stroke** 1997 Sep;28(9):1671–6

[Comments on the kinetics and extracellular effects of potassium and magnesium] Vierling W. **Herz** 1997 Jun;22 Suppl 1:3–10 (8 ref.) (Eng. Abstr.) **(Ger)**

[Physiology and pathophysiology of cardiac impulse conduction] Kléber AG, et al. **Z Kardiol** 1996;85 Suppl 6:25–33 (40 ref.) (Eng. Abstr.) **(Ger)**

[Association of AV reciprocating tachycardia, using a concealed bundle of Kent, and paroxysmal atrial fibrillation in neurocardiogenic syncope] Fazekas T, et al. **Orv Hetil** 1996 Aug 18;137(33):1815–9 (Eng. Abstr.) **(Hun)**

[The electrophysiological bases of aberrant intraventricular conduction during atrial fibrillation] Nave C, et al. **Cardiologia** 1996 Dec;41(12):1193–8 (Eng. Abstr.) **(Ita)**

[Electrophysiological analysis of atrioventricular and intraventricular conduction in bi- and tri-fascicular blocks] Ducceschi V 2nd, et al. **Minerva Cardioangiol** 1997 Mar; 45(3):87–93 (Eng. Abstr.) **(Ita)**

[Influence of atrioventricular delay on pulmonary capillary wedge pressure in two patients with hypertrophic obstructive cardiomyopathy during dual chamber pacing] Ochiai K, et al. **J Cardiol** 1997 Feb;29(2):103–9 (Eng. Abstr.) **(Jpn)**

[Ventricular preexcitation] Hirao K. **Ryoikibetsu Shokogun Shirizu** 1996;(12):321–4 (17 ref.) **(Jpn)**

[Electric disturbance type of cardiomyopathy (ECM)] Inoue S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):203–5 (12 ref.) **(Jpn)**

[Supernormal excitation and supernormal conduction] Kawara T, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (12):248–51 (7 ref.) **(Jpn)**

[Regular wide QRS tachycardia] Ohnishi S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):208–10 (8 ref.) **(Jpn)**

[Concealed conduction] Takahashi A, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):356–9 (22 ref.) **(Jpn)**

[Management of atrioventricular tachycardia via left accessory pathway] Tsuchiya T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):292–5 (9 ref.) **(Jpn)**

[A method for recording the process of atrial repolarization] Tsintsadze GI, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):110–2 **(Rus)**

[Depressed conduction and increased automaticity in acute septal myocardial infarct (letter; comment)] Conti Giménez LA. **Rev Esp Cardiol** 1996 Dec;49(12):931–2. Comment on: Rev Esp Cardiol 1996 Jul;49(7):535–8. **(Spa)**

[Depressed conduction and increased automaticity in acute septal myocardial infarction (see comments)] Raviña T. **Rev Esp Cardiol** 1996 Jul;49(7):535–8 (Eng. Abstr.). Comment in: Rev Esp Cardiol 1996 Dec;49(12):931–2. **(Spa)**

RADIONUCLIDE IMAGING

Cardiac sympathetic nerve function assessed by [131I]metaiodobenzylguanidine after ischemia and reperfusion in anesthetized dogs. Takatsu H, et al. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 1):35–41

SURGERY

Impact on ventricular function and quality of life of transcatheter ablation of the atrioventricular junction in chronic atrial fibrillation with a normal ventricular response. Natale A, et al. **Am J Cardiol** 1996 Dec 15; 78(12):1431–3

As originally published in 1989: Cryoablation of septal pathways in patients with supraventricular tachyarrhythmias. Updated in 1997. Crawford FA Jr, et al. **Ann Thorac Surg** 1997 Apr;63(4):1205–6

Utility of full electrophysiological study before accessory pathway ablation in Wolff–Parkinson–White syndrome. Rosenbaum M, et al. **Can J Cardiol** 1997 Apr;13(4):359–62

Radiofrequency current catheter ablation of accessory atrioventricular pathways in Ebstein's anomaly. Cappato R, et al. **Circulation** 1996 Aug 1;94(3):376–83

Low–temperature mapping predicts site of successful ablation while minimizing myocardial damage. Cote JM, et al. **Circulation** 1996 Aug 1;94(3):253–7

Radiofrequency catheter ablation of a right atriofascicular (Mahaim) and two atrioventricular (Kent) accessory pathways in a single session. Hluchy J, et al. **Clin Cardiol** 1996 Sep;19(9):751–4

Radiofrequency catheter ablation of accessory pathways in infants. Benito F, et al. **Heart** 1997 Aug;78(2):160–2

Radiofrequency catheter ablation of accessory atrioventricular pathways: primary failure and recurrence of conduction. Xie B, et al. **Heart** 1997 Apr;77(4):363–8

Effects of heating with radiofrequency power on myocardial impulse conduction: is radiofrequency ablation exclusively thermally mediated? Simmers TA, et al. **J Cardiovasc Electrophysiol** 1996 Mar;7(3):243–7

Successful catheter ablation of an inferoseptal accessory pathway within the coronary sinus in a patient with a previously unsuccessful attempt at surgical interruption. Coronary sinus ablation for Wolff–Parkinson–White syndrome. Kleinman D, et al. **J Electrocardiol** 1996 Jan; 29(1):55–60

Radiofrequency ablation for WPW syndrome with monitoring the local electrogram at the ablation site. Satake S, et al. **Jpn Heart J** 1996 Sep;37(5):741–50

Atrial flutter mapping and ablation II. Radiofrequency ablation of atrial flutter circuits. Cosio FG, et al. **Pacing Clin Electrophysiol** 1996 Jun;19(6):965–75 (32 ref.)

Permanent mechanical catheter ablation of an accessory pathway in a child. Mangieri E, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1393–4

Spatial resolution and role of pacemapping during ablation of accessory pathways. Molin F, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):683–94

Electrograms for identification of the atrial ablation site during catheter ablation of accessory pathways. Montenero AS, et al. **Pacing Clin Electrophysiol** 1996 Jun;19(6):905–12

Clinical utility of routine transthoracic echocardiographic studies after uncomplicated radiofrequency catheter ablation: a prospective multicenter study. The Atakr Investigators Group. Pires LA, et al. **Pacing Clin Electrophysiol** 1996 Oct;19(10):1502–7

Radiofrequency catheter ablation of accessory pathways and modification of atrioventricular node in children and adolescents. Celiker A, et al. **Turk J Pediatr** 1996 Oct–Dec; 38(4):467–75

[Use of esophageal investigation in the mid–term outcome after radiofrequency ablation of intranodal reentrant tachycardia] Deharo JC, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1375–9 (Eng. Abstr.) **(Fre)**

[Ablation of the slow pathway in reciprocating nodal rhythms by radiofrequency] Fossati F, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1159–65 (Eng. Abstr.) **(Fre)**

[Value of unipolar and bipolar recordings in radiofrequency ablation of accessory atrioventricular pathways] Magnin–Poull I, et al. **Arch Mal Coeur Vaiss** 1996 Sep; 89(9):1177–83 (Eng. Abstr.) **(Fre)**

[Radiofrequency ablation of resistant atrial flutter: a new anatomical approach] Ricard P, et al. **Arch Mal Coeur Vaiss** 1997 Mar;90(3):379–83 (19 ref.) (Eng. Abstr.) **(Fre)**

[Radiofrequency ablation of accessory atrioventricular pathways] Sebag C, et al. **Arch Mal Coeur Vaiss** 1997 Apr; 90 Spec No 1:11–7 (30 ref.) (Eng. Abstr.) **(Fre)**

[Nonpharmacologic treatment of heart arrhythmia—methods] Kozłuk E, et al. **Pol Tyg Lek** 1996 Mar;51(10–13):163–5 (21 ref.) **(Pol)**

[Ablation of distinct accessory pathways with decremental conduction] Cruz Filho FE, et al. **Arq Bras Cardiol** 1996 Mar;66 Suppl 1:39–44 (19 ref.) **(Por)**

[Radiofrequency ablation of occult left accessory pathways without catheterization of the coronary sinus] Brugada J, et al. **Rev Esp Cardiol** 1997 Jan;50(1):36–41 (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

[Electron microscopic study of the nervous apparatus of the sinoatrial region of the human heart in alcoholic cardiomyopathy] Pavlovich ER. **Arkh Patol** 1996 Sep–Oct; 58(5):23–8 (Eng. Abstr.) **(Rus)**

HEART CONTRACTILITY see **MYOCARDIAL CONTRACTION**

HEART DEFECTS, CONGENITAL

Absent right superior vena cava in visceroatrial situs solitus. Bartram U, et al. **Am J Cardiol** 1997 Jul 15;80(2):175–83 (95 ref.)

Pseudodiastrophic dysplasia type Burgio in a newborn. Fischetto R, et al. **Am J Med Genet** 1997 Aug 8;71(2):222–5

Autosomal dominant familial radial luxation, carpal fusion and scapular dysplasia with variable heart defects. van Bever Y, et al. **Am J Med Genet** 1996 Oct 28;65(3):213–7

Twin–reversed arterial perfusion (TRAP) sequence: case reports and review of literature. Hanafy A, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):187–91 (29 ref.)

Adult patients' knowledge about their congenital heart disease. Kantoch MJ, et al. **Can J Cardiol** 1997 Jul; 13(7):641–5

Bridge work [editorial] Resar JR, et al. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):421–2

Ivemark syndrome: a case report [letter] de Silva D, et al. **Ceylon Med J** 1997 Jun;42(2):112

The cardio–facio–cutaneous (CFC) syndrome—two possible new cases and review of the literature. Krajewska–Walasek M, et al. **Clin Dysmorphol** 1996 Jan;5(1):65–72

Are cardio–facio–cutaneous syndrome and Noonan syndrome distinct? A case of CFC offspring of a mother with Noonan syndrome. Leichtman LG. **Clin Dysmorphol** 1996 Jan;5(1):61–4

Congenital heart defect and conductive hypoacusia in a patient with the KBG syndrome [letter] Rivera–Vega MR, et al. **Clin Genet** 1996 Oct;50(4):278–9

Congenital cardiac disease and pregnancy. Mendelson MA. **Clin Perinatol** 1997 Jun;24(2):467–82 (70 ref.)

Pediatrics. **Curr Opin Cardiol** 1997 Jan;12(1):B25–43

Pediatrics [editorial; comment] Hougen TJ. **Curr Opin Cardiol** 1997 Jan;12(1):41–3. Comment on: Curr Opin Cardiol 1997 Jan;12(1):44–50. Comment on: Curr Opin Cardiol 1997 Jan;12(1):51–62. Comment on: Curr Opin Cardiol 1997 Jan;12(1):63–9. Comment on: Curr Opin Cardiol 1997 Jan;12(1):70–7. Comment on: Curr Opin Cardiol 1997 Jan;12(1):78–83. Comment on: Curr Opin Cardiol 1997 Jan;12(1):84–90. Comment on: Curr Opin Cardiol 1997 Jan;12(1):91–8.

Family planning requirements of adults with congenital heart disease [editorial] Swan L, et al. **Heart** 1997 Jul;78(1):9–11

Overexpression of the Xenopus Xl–fli gene during early embryogenesis leads to anomalies in head and heart development and erythroid differentiation. Remy P, et al. **Int J Dev Biol** 1996 Jun;40(3):577–89

Acardiac twins. Two case reports. Pezzati M, et al. **J Perinat Med** 1997;25(1):119–24

Cantrell's pentalogy. Report of four cases and their management. Fernández MS, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):428–31 (20 ref.)

Is pharyngoplasty a risk in velocardiofacial syndrome? An assessment of medially displaced carotid arteries. Ross DA, et al. **Plast Reconstr Surg** 1996 Dec;98(7):1182–90

Pathogenetic mechanisms of congenital cardiovascular malformations revisited. Clark EB. **Semin Perinatol** 1996 Dec;20(6):465–72 (36 ref.)

Spondylocostal dysplasia and cardiac anomalies in one dizygotic twin. Ozkinay F, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):381–4

Ethical analysis of a case of ectopia cordis [letter; comment] Aarons D. **West Indian Med J** 1996 Dec;45(4):105–6. Comment on: West Indian Med J 1996 Jun;45(2):65–6.

[Double–chamber right ventricle: a case report] Monte I, et al. **Cardiologia** 1997 Jul;42(7):751–6 (Eng. Abstr.) **(Ita)**

[Recommendations for anesthesiologic treatment in non–cardiac surgery in congenital cardiopathy in neonatal and pediatric age. Italian Society of Anesthesia, Resuscitation and Intensive Therapy Group. Anesthesia and Resuscitation in Cardiothoracic Surgery] **Minerva Anestesiol** 1996 Nov;62(11):385–8 **(Ita)**

[Congenital absence and defects of the left pericardium] Matsuo S, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (13):178–81 (9 ref.) **(Jpn)**

[Holt–Oram syndrome] Matsuoka R. **Ryoikibetsu Shokogun Shirizu** 1996;(15):267–70 (13 ref.) **(Jpn)**

[CATCH22 syndrome] Miyamoto T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):205–7 (9 ref.) **(Jpn)**

[Atriovisceral heterotaxia syndrome] Momma K. **Ryoikibetsu Shokogun Shirizu** 1996;(13):165–7 (20 ref.) **(Jpn)**

[Abnormal positions and relationships of the heart] Mori K. **Ryoikibetsu Shokogun Shirizu** 1996;(13):158–60 (6 ref.) **(Jpn)**

[Shprintzen syndrome] Nishikawa Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):300–1 (9 ref.) **(Jpn)**

[Congenital heart disease] Okada R. **Ryoikibetsu Shokogun Shirizu** 1996;(13):182–6 (20 ref.) **(Jpn)**

[Congenital pericardial defect (complete and incomplete)] Tokushima T, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (13):190–2 (14 ref.) **(Jpn)**

[CHARGE association] Tsukahara M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):247–9 (20 ref.) **(Jpn)**

[Complex heart diseases. From concept to evolution (editorial)] Atik E. **Arq Bras Cardiol** 1996 Dec;67(6):369–71 **(Por)**

[A case of twin death with a co–twin of the acardius acephalus type] Alaniz–Sánchez A, et al. **Ginecol Obstet Mex** 1996 Oct;64:467–70 (Eng. Abstr.) **(Spa)**

[Ventilatory management during anesthesia in the patient with congenital cardiopathy undergoing non–cardiac surgery (letter; comment)] Reinoso–Barbero F. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):222. Comment on: Rev Esp Anestesiol Reanim 1995 Oct;42(8):336–40. **(Spa)**

[Congenital stenosis of pulmonary veins in the adult] Rumoroso JR, et al. **Rev Esp Cardiol** 1996 Sep; 49(9):697–700 (Eng. Abstr.) **(Spa)**

[Resources for the surgery of heart defects in children. Now the there is a better way to use the records] Hedvall G. **Lakartidningen** 1997 May 7;94(19):1806–8 **(Swe)**

BLOOD

Use of stored newborn blood spots in research on birth defects: variation in retrieval rates by type of defect and infant characteristics. Loffredo CA, et al. **Am J Med Genet** 1997 Mar 3;69(1):85–8

Serum insulin–like growth factor I in congenital heart disease. Barton JS, et al. **Arch Dis Child** 1996 Aug; 75(2):162–3

Serum N–terminal proatrial natriuretic factor in children with congenital heart disease. Holmström H, et al. **Eur Heart J** 1996 Nov;17(11):1737–46

Initial postoperative serum lactate levels predict survival in children after open heart surgery. Siegel LB, et al. **Intensive Care Med** 1996 Dec;22(12):1418–23

Plasma neuropeptide Y and catecholamines in pediatric patients undergoing cardiac operations. Sun LS, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):278–84

Coagulation and fibrinolytic profile of paediatric patients undergoing cardiopulmonary bypass [published erratum appears in Thromb Haemost 1997 May;77(5):1047] Chan AK, et al. **Thromb Haemost** 1997 Feb;77(2):270–7

CHEMICALLY INDUCED

Cardiac malformations induced after "in ovo" administration of OP–1 to the outflow tract in the developing chick. Sanchez–Quintana D, et al. **Int J Dev Biol** 1996;Suppl 1:265S–266S

Homocysteine induces congenital defects of the heart and neural tube: effect of folic acid. Rosenquist TH, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15227–32

Expression of the aryl hydrocarbon receptor (AhR) and AhR nuclear translocator during chick cardiogenesis is consistent with 2,3,7,8–tetrachlorodibenzo–p–dioxin–induced heart defects. Walker MK, et al. **Toxicol Appl Pharmacol** 1997 Apr; 143(2):407–19

CLASSIFICATION

Noncardiac malformations at major congenital heart defects. Pradat P. **Pediatr Cardiol** 1997 Jan–Feb;18(1):11–8

COMPLICATIONS

Patients with congenital heart malformations for noncardiac surgery. Jonmarker C. **Acta Anaesthesiol Scand Suppl** 1997; 110:104–5

The spectrum of extrinsic lower airway compression in children: MR imaging. Donnelly LF, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):59–62

Operative mortality and frequency of coexistent anomalies in interruption of the aortic arch. Powell CB, et al. **Am J Cardiol** 1997 Apr 15;79(8):1147–8

Occurrence of congenital heart disease in children with Brachmann–de Lange syndrome. Mehta AV, et al. **Am J Med Genet** 1997 Sep 5;71(4):434–5

Thomas syndrome: potter sequence with cleft lip/palate and cardiac anomalies. Zlotogora J, et al. **Am J Med Genet** 1996 Mar 29;62(3):224–6

Central retinal vein occlusion in a young child with cyanotic heart disease [letter] VanderVeen DK, et al.

Arch Ophthalmol 1997 Aug;115(8):1077

Research on the relationship between small heart syndrome and poor orthostatic endurance of aviators [letter] Yu CH, et al. **Aviat Space Environ Med** 1997 Mar;68(3):246

Velocardiofacial syndrome with facial and pinna asymmetries. Tabith Júnior A, et al.
Braz J Med Biol Res 1996 Nov;29(11):1445–7

Infective endocarditis in congenital heart disease. Dodo H, et al. **Cardiol Clin** 1996 Aug;14(3):383–92 (58 ref.)

Abnormal connection of the inferior vena cava to the left atrium with double outlet right ventricle and heterotaxia: a case report. Günal N, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):287–9

Coronary angioplasty of a severe coronary stenosis at the site of a myocardial bridge. Takeuchi M, et al.
Cathet Cardiovasc Diagn 1997 Aug;41(4):416–20

Subglottic stenosis complicating cardiac surgery in children. Pereira KD, et al. **Chest** 1997 Jun;111(6):1769–72

Repolarization and the genesis of cardiac arrhythmias. Role of body surface mapping [editorial; comment] Fontaine G, et al. **Circulation** 1997 Jun 17;95(12):2600–2 (20 ref.). Comment on: Circulation 1997 Jun 17;95(12):2668–76.

Body-surface QRST integral mapping. Arrhythmogenic righ ventricular dysplasia versus idiopathic right ventricular tachycardia [see comments] Peeters HA, et al.
Circulation 1997 Jun 17;95(12):2668–76. Comment in: Circulation 1997 Jun 17;95(12):2600–2.

Angiotensin converting enzyme inhibitor improves nephrotic syndrome associated with cyanotic congenital heart disease [letter] Watanabe Y, et al. **Clin Nephrol** 1996 May; 45(5):362–3

Developmental concerns in children with congenital heart disease [see comments] Samango-Sprouse C, et al.
Curr Opin Cardiol 1997 Jan;12(1):91–8 (41 ref.). Comment in: Curr Opin Cardiol 1997 Jan;12(1):41–3.

Endothelium-dependent vasodilatation is not selectively impaired in patients with chronic heart failure secondary to valvular heart disease and congenital heart disease [see comments] Nakamura M, et al. **Eur Heart J** 1996 Dec; 17(12):1875–81. Comment in: Eur Heart J 1996 Dec;17(12):1775–7.

Right ventricular regional wall motion abnormality in congenital heart disease. Mittal SR, et al. **Int J Cardiol** 1996 Apr 19;54(1):76–80

Aneurysms of the sinus of Valsalva. Yilmaz AT, et al.
J Cardiovasc Surg (Torino) 1997 Apr;38(2):119–24

Are the ear and the heart fellow travelers of a sort? [editorial; comment] Paradise JL. **J Pediatr** 1997 Aug;131(2):179–80 . Comment on: J Pediatr 1997 Aug;131(2):215–9.

Conotruncal cardiac anomalies and otitis media [see comments] Todd JL, et al. **J Pediatr** 1997 Aug;131(2):215–9 . Comment in: J Pediatr 1997 Aug;131(2):179–80.

Upper gastrointestinal hemorrhage as a late complication of congenital heart disease. Miller TL, et al.
J Pediatr Gastroenterol Nutr 1996 Nov;23(4):452–6

Triplet pregnancy complicated by intrauterine fetal death of conjoined twins from an umbilical cord accident of an acardius. A case report. Chang DY, et al.
J Reprod Med 1996 Jun;41(6):459–62

Radiofrequency ablation of accessory pathways associated with congenital heart disease. van Hare GF.
Pacing Clin Electrophysiol 1997 Aug;20(8 Pt 2):2077–81 (28 ref.)

Use of the internal jugular vein approach in balloon dilatation angioplasty of pulmonary artery stenosis in children. Senzaki H, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):82–5

Polymicrobial soft tissue abscesses in patients with cyanotic congenital heart disease. Rodgers GL, et al.
Pediatr Infect Dis J 1996 Nov;15(11):1046–8

Additive impact of in-hospital cardiac arrest on the functioning of children with heart disease. Bloom AA, et al. **Pediatrics** 1997 Mar;99(3):390–8

Endovascular stents in congenital heart disease. Benson LN, et al. **Prog Cardiovasc Dis** 1996 Sep–Oct;39(2):165–86 (76 ref.)

Cardiac abnormalities associated with hydrops fetalis. Knilans TK. **Semin Perinatol** 1995 Dec;19(6):483–92 (92 ref.)

[Cerebral abscess and cyanotic congenital heart disease] Guérin P, et al. **Arch Mal Coeur Vaiss** 1997 May; 90(5):651–4 (Eng. Abstr.) **(Fre)**

[Bacterial endocarditis in childhood] Zacherl S, et al.
Klin Padiatr 1996 Mar–Apr;208(2):47–52 (Eng. Abstr.) **(Ger)**

[Congenital cardiomyopathies and sudden death] Basso C, et al. **G Ital Cardiol** 1996 Sep;26(9):1039–48 (42 ref.) **(Ita)**

[Rare association of a bicuspid aortic valve and accessory azygous lobe in Turner syndrome. Echocardiographic and clinical findings] Biferali F, et al. **Minerva Cardioangiol** 1996 Jul–Aug;44(7–8):361–4 (Eng. Abstr.) **(Ita)**

[Cardiovascular imaging in-a-month. A 15-year-old man with stroke of unclarified etiology (see comments)] Misumi I, et al. **J Cardiol** 1997 Feb;29(2):123–4. Comment in: J Cardiol 1997 Jun;29(6):355. **(Jpn)**

[Resection of congenital aneurysm in the posterior wall of left ventricle communicated to the right atrium] Yanagiya A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May; 44(5):678–81 (Eng. Abstr.) **(Jpn)**

[Bone marrow transplantation from an unrelated donor in patient with congenital heart diseases] Kumazaki H, et al. **Rinsho Ketsueki** 1996 Aug;37(8):731–3 (Eng. Abstr.) **(Jpn)**

[Congenital left ventricular diverticulum] Katoh J, et al.
Ryoikibetsu Shokogun Shirizu 1996;(13):175–7 (18 ref.) **(Jpn)**

[Pediatric arrhythmia] Ogawa K.
Ryoikibetsu Shokogun Shirizu 1996;(12):304–7 (16 ref.) **(Jpn)**

[Small heart syndrome] Yasukochi S.
Ryoikibetsu Shokogun Shirizu 1996;(13):142–5 (12 ref.) **(Jpn)**

[Nutritional status of children with congenital heart disease and left-to-right shunt. The importance of the presence of pulmonary hypertension] Leite HP, et al.
Arq Bras Cardiol 1995 Nov;65(5):403–7 (Eng. Abstr.) **(Por)**

[The treatment of mediastinitis after heart operations] Ostrovskiĭ IuP, et al. **Vestn Khir Im I I Grek** 1996; 155(3):65–6 **(Rus)**

[Velocardiofacial syndrome. The natural evolution of 4 cases and the associated malformations] Cañabate Reche F, et al. **An Esp Pediatr** 1996 Aug;45(2):205–8 **(Spa)**

[Radiofrequency ablation in multiple accessory pathways] Iturralde Torres P, et al. **Arch Inst Cardiol Mex** 1996 Sep–Oct;66(5):390–9 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Cardiovascular abnormalities in Noonan syndrome: the clinical findings and treatments. Ishizawa A, et al.
Acta Paediatr Jpn 1996 Feb;38(1):84–90

Angiographic, echocardiographic, and three-dimensional magnetic resonance imaging of extracardiac conduits in congenital heart disease. Bornemeier RA, et al.
Am J Cardiol 1996 Sep 15;78(6):713–7

Sudden death of a young person: Uhl's disease versus arrhythmogenic right ventricular dysplasia [letter] Misselbeck WJ, et al. **Am J Emerg Med** 1996 Mar; 14(2):234–5

Diagnostic dilemma with elevated level of alpha-fetoprotein in an undiagnosed twin pregnancy with a small discordant holoacardius acephalus. Entezami M, et al.
Am J Obstet Gynecol 1997 Aug;177(2):466–8

Routine prenatal screening for congenital heart disease: what can be expected? A decision-analytic approach. Buskens E, et al. **Am J Public Health** 1997 Jun;87(6):962–7

Changing impact of fetal diagnosis of congenital heart disease. Sharland G. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F1–3

Factors influencing age at referral of children with congenital heart disease. Perlstein MA, et al.
Arch Pediatr Adolesc Med 1997 Sep;151(9):892–7

Diagnosing congenital heart defects using the Fallot computational model. Reed NE, et al. **Artif Intell Med** 1997 May;10(1):25–40

Perioperative cardiovascular evaluation for noncardiac surgery: congenital heart diseases and heart diseases in pregnancy deserve better guidelines [letter; comment] Weiss BM, et al. **Circulation** 1997 Jan 21;95(2):530–1. Comment on: Circulation 1996 Mar 15;93(6):1278–317.

Posterior cerebral circulation infarct following cardiac catheterization and balloon angioplasty in an adolescent. Easley RB, et al. **Clin Pediatr (Phila)** 1997 Sep;36(9):535–8

Magnetic resonance angiography demonstration of congenital heart disease in adults. Hartnell GG, et al.
Clin Radiol 1996 Dec;51(12):851–7

Congenital thoracic masses: imaging features in the adult. Raymond GS, et al. **Crit Rev Diagn Imaging** 1997; 38(2):115–205 (68 ref.)

Clinical presentation and surgical results in a patient who has multiple congenital heart defects [letter] Zeybek R, et al. **Eur Heart J** 1997 Jul;18(7):1191–3

The multi-track angiography catheter: a new tool for complex catheterisation in congenital heart disease. Bonhoeffer P, et al. **Heart** 1996 Aug;76(2):173–7

Congenital left ventricular diverticulum. Baratella MC, et al. **Int J Cardiol** 1997 Mar;59(1):93–5

Left isomerism in a middle-aged woman with early-onset atrial fibrillation. Wang TD, et al. **Int J Cardiol** 1997 Feb; 58(3):269–72

Rare variants of divided right ventricle with sequestered apical trabecular component. Yoo SJ, et al.
Int J Cardiol 1997 Aug 8;60(3):249–55

An improved computer method to prepare 3D magnetic resonance images of thoracic structures. Uokawa K, et al.
J Digit Imaging 1997 May;10(2):85–95

Precordial leads QRST time integrals for evaluation of right ventricular overload in children with congenital heart diseases. Izumida N, et al. **J Electrocardiol** 1997 Jul; 30(3):257–64

Transhepatic venous access for diagnostic and interventional cardiovascular procedures. Wallace MJ, et al.
J Vasc Interv Radiol 1996 Jul–Aug;7(4):579–82

Routine prenatal screening for congenital heart disease [letter; comment] Rustico MA, et al. **Lancet** 1997 Jan 4; 349(9044):59. Comment on: Lancet 1996 Sep 28;348(9031):836.

MRI appearance of a double inlet and double outlet right ventricle with supero-inferior ventricular relationship. Beekman RP, et al. **Magn Reson Imaging** 1996; 14(9):1107–12

Isolated noncompaction of the myocardium in adults. Ritter M, et al. **Mayo Clin Proc** 1997 Jan;72(1):26–31

Intracranial aneurysms and cervicocephalic arterial dissections associated with congenital heart disease. Schievink WI, et al. **Neurosurgery** 1996 Oct;39(4):685–9; discussion 689–90

Congenital heart defects: cyanotic and acyanotic. Nouri S.
Pediatr Ann 1997 Feb;26(2):92, 95–8 (10 ref.)

Circulatory system in children with localized scleroderma. Rokicki W, et al. **Pediatr Cardiol** 1997 May-Jun;18(3):213–7

Diagnostic dilemma: left aortic arch with right descending aorta--a rare vascular ring. Singh GK, et al.
Pediatr Cardiol 1997 Jan–Feb;18(1):45–8

Association of fetal junctional rhythm and respiratory arrhythmia detected by magnetocardiography. Wakai RT, et al. **Pediatr Cardiol** 1997 May-Jun;18(3):201–3

Sepsis, septic shock, acute abdomen? The ability of cardiac disease to mimic other medical illness. Mahle WT, et al.
Pediatr Emerg Care 1996 Aug;12(4):317–24

Adapting disease concepts to changes in imaging modalities in complex congenital heart disease [letter] Donnelly LF.
Pediatr Radiol 1997 Mar;27(3):284–5

Cine gradient-echo MR imaging and MR velocity mapping in the evaluation of congenital heart disease. Rebergen SA, et al. **Radiographics** 1996 May;16(3):467–81 (28 ref.)

An empirical study of parents' reaction to the diagnosis of congenital heart disease in infants. Cohn JK.
Soc Work Health Care 1996;23(2):67–79

Myocardial dysplasia in a 3rd-trimester fetus. An ultrasound and pathologic study. Paladini D, et al.
Tex Heart Inst J 1997;24(1):53–7

The responsibilities of the perinatal cardiologist: outcomes analysis. Kleinman CS. **Ultrasound Obstet Gynecol** 1995 Dec;6(6):380–5

Evaluation of three-dimensional ultrasonography and magnetic resonance imaging in assessment of congenital heart anomalies in fetal cardiac specimens. Meyer-Wittkopf M, et al. **Ultrasound Obstet Gynecol** 1996 Nov;8(5):303–8

In utero diagnosis of infra-diaphragmatic total anomalous pulmonary venous return. Wessels MW, et al.
Ultrasound Obstet Gynecol 1996 Sep;8(3):206–9

[The five senses and pediatric cardiology! (editorial)] Rey C. **Arch Mal Coeur Vaiss** 1997 May;90(5):603–4 **(Fre)**

[Cardiac pain while dancing the tango] Trojan A, et al.
Schweiz Med Wochenschr 1997 Feb 1;127(5):187 **(Ger)**

[Coronary sinus defects: rare form of interatrial communication] Bertram H, et al. **Z Kardiol** 1996 Dec; 85(12):899–905 (Eng. Abstr.) **(Ger)**

[Atresia of the left-sided atrioventricular connection with single ventricle and transposition of great vessels in a adult patients] Kaemmerer H, et al. **Z Kardiol** 1996 Jul; 85(7):469–76 (Eng. Abstr.) **(Ger)**

[Aortic regurgitation caused by quadri-cuspid aortic valve] Kayser S, et al. **Orv Hetil** 1997 Jun 8;138(23):1511–3 (Eng. Abstr.) **(Hun)**

[Mesocardia] Sone K. **Ryoikibetsu Shokogun Shirizu** 1996; (13):171–4 (3 ref.) **(Jpn)**

[Evaluation of the usefulness of magnetic resonance imaging after correction of congenital heart disease in children--pilot experiment] Książyk J, et al. **Pediatr Pol** 1996 Mar;71(3):211–5 (Eng. Abstr.) **(Pol)**

[Prenatal diagnosis of congenital cardiomyopathies. Current reality in the south of the country] Barata I, et al.
Acta Med Port 1996 Feb–Mar;9(2–3):91–6 (Eng. Abstr.) **(Por)**

[Troponin T--a good marker for assessing a myocardial lesion in children?] Kaku S, et al. **Rev Port Cardiol** 1996 Dec;15(12):923–8 **(Por)**

DRUG THERAPY

Cortical hyperostosis simulating osteomyelitis after short-term prostaglandin E1 infusion. Kalloghlian AK, et al. **Eur J Pediatr** 1996 Mar;155(3):173–4

ECONOMICS

Risk factors for higher cost in congenital heart operations. Ungerleider RM, et al. **Ann Thorac Surg** 1997 Jul; 64(1):44–8; discussion 49

EMBRYOLOGY

Embryonic heart and skin defects in mice lacking plakoglobin. Bierkamp C, et al. **Dev Biol** 1996 Dec 15; 180(2):780–5

Identification of an essential nonneuronal function of neurotrophin 3 in mammalian cardiac development. Donovan MJ, et al. **Nat Genet** 1996 Oct;14(2):210–3

[Fetal atrial-axis disconnection in clinically unapparent collagenosis in the mother: a case study] Dittert DD, et al. **Verh Dtsch Ges Pathol** 1996;80:333 **(Ger)**

ENZYMOLOGY

Cardiac troponin T isoform expression correlates with pathophysiological descriptors in patients who underwent corrective surgery for congenital heart disease. Saba Z, et al. **Circulation** 1996 Aug 1;94(3):472–6

A post-receptor defect of adenylyl cyclase in severely failing myocardium from children with congenital heart disease. Reithmann C, et al. **Eur J Pharmacol** 1997 Jul 2; 330(1):79–86

Pulmonary blood flow regulates plasma tissue plasminogen activator concentrations in patients with congenital heart defects. Mishima A, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):742–7

EPIDEMIOLOGY

Congenital anomalies among the offspring of fire fighters. Aronson KJ, et al. **Am J Ind Med** 1996 Jul;30(1):83–6

Maternal residential proximity to hazardous waste sites and risk for selected congenital malformations [see comments] Croen LA, et al. **Epidemiology** 1997 Jul;8(4):347–54. Comment in: Epidemiology 1997 Jul;8(4):337–9.

The incidence of a deletion in chromosome 22Q11 in sporadic and familial conotruncal heart disease [letter; comment] Devriendt K, et al. **Eur J Pediatr** 1996 Aug;155(8):721. Comment on: Eur J Pediatr 1995 Nov;154(11):878–81.

Incidence of congenital heart disease in Qatari children. Robida A, et al. **Int J Cardiol** 1997 Jun 27;60(1):19–22

Recurrence risk figures for isolated tetralogy of Fallot after screening for 22q11 microdeletion. Digilio MC, et al. **J Med Genet** 1997 Mar;34(3):188–90

Placental pathologic conditions in anticardiolipin antibody positive women whose infants had congenital heart defects. Kowal-Vern A, et al. **J Perinatol** 1996 Jul–Aug; 16(4):268–71

Profile and risk factors for congenital heart disease. Hassan I, et al. **JPMA J Pak Med Assoc** 1997 Mar;47(3):78–81

What is the prevalence of congenital heart diseases? Abdulla R. **Pediatr Cardiol** 1997 Jul–Aug;18(4):269

Dental disease, caries related microflora and salivary IgA of children with severe congenital cardiac disease: an epidemiological and oral microbial survey. Franco E, et al. **Pediatr Dent** 1996 May–Jun;18(3):228–35

Epidemiologic characteristics of conotruncal heart defects in California, 1987–1988. O'Malley CD, et al. **Teratology** 1996 Jun;53(6):374–7

Incidence of congenital heart defects in fetuses of diabetic mothers: a retrospective study of 326 cases. Meyer-Wittkopf M, et al. **Ultrasound Obstet Gynecol** 1996 Jul;8(1):8–10

Integrated community-based screening for cardiovascular diseases of childhood. Thakur JS, et al. **World Health Forum** 1997;18(1):24–7

[Cardiovascular abnormalities in Bavaria 1984–1991] Schoetzau A, et al. **Z Kardiol** 1997 Jul;86(7):496–504 (Eng. Abstr.) **(Ger)**

[Prevalence of congenital cardiopathies among newborn infants in a department of pediatric cardiology] Mundo L, et al. **Clin Ter** 1996 Dec;147(12):627–33 (Eng. Abstr.) **(Ita)**

ETIOLOGY

CHARGE association with congenital glaucoma due to maldevelopment of the anterior chamber angle. Katai N, et al. **Acta Ophthalmol Scand** 1997 Jun;75(3):322–4

Challenges posed by the adult patient with congenital heart disease. Webb GD, et al. **Adv Intern Med** 1996;41:437–95 (211 ref.)

Experimental study on the significance of abnormal cardiac looping for the development of cardiovascular anomalies in neural crest-ablated chick embryos. Männer J, et al. **Anat Embryol (Berl)** 1996 Sep;194(3):289–300

Unilateral vitelline vein ligation alters intracardiac blood flow patterns and morphogenesis in the chick embryo [see comments] Hogers B, et al. **Circ Res** 1997 Apr;80(4):473–81 . Comment in: Circ Res 1997 Apr;80(4):604–6.

Three infants of diabetic mothers with malformations of left-right asymmetry--further evidence for the aetiological role of diabetes in this malformation spectrum. Slavotinek A, et al. **Clin Dysmorphol** 1996 Jul;5(3):241–7

Profile and risk factors for congenital heart disease. Hassan I, et al. **JPMA J Pak Med Assoc** 1997 Mar;47(3):78–81

Brief hypoglycemia alters morphology, function, and metabolism of the embryonic mouse heart. Smoak IW. **Reprod Toxicol** 1997 Jul–Aug;11(4):495–502

Cardiac development and perinatal care of infants with neural crest-associated conotruncal defects. Leatherbury L, et al. **Semin Perinatol** 1996 Dec;20(6):473–81 (38 ref.)

Influence of genetic and maternal diabetes in the pathogenesis of visceroatrial heterotaxy in mice. Morishima M, et al. **Teratology** 1996 Oct;54(4):183–90

Parental cigarette smoking and risk for congenital anomalies of the heart, neural tube, or limb. Wasserman CR, et al. **Teratology** 1996 Apr;53(4):261–7

GENETICS

Noonan syndrome: a clinical description emphasizing the cardiac findings. Noonan J, et al. **Acta Paediatr Jpn** 1996 Feb;38(1):76–83 (31 ref.)

A genetic etiology for interruption of the aortic arch type B. Lewin MB, et al. **Am J Cardiol** 1997 Aug 15;80(4):493–7

Molecular definition of 22q11 deletions in 151 velo-cardio-facial syndrome patients. Carlson C, et al. **Am J Hum Genet** 1997 Sep;61(3):620–9

A translocation at 12q2 refines the interval containing the Holt-Oram syndrome 1 gene [published erratum appears in Am J Hum Genet 1997 Mar;60(3):750] Terrett JA, et al. **Am J Hum Genet** 1996 Dec;59(6):1337–41

Occurrence of cardiac malformations in relatives of children with transposition of the great arteries. Becker TA, et al. **Am J Med Genet** 1996 Dec 2;66(1):28–32

Web-neck anomaly and its association with congenital heart disease [letter; comment] Brady AF, et al. **Am J Med Genet** 1996 Sep 6;64(4):605–6. Comment on: Am J Med Genet 1995 Apr 10;56(3):304–7.

Familial heterotaxia: what is the inheritance in this family? [letter; comment] Delatycki MB, et al. **Am J Med Genet** 1997 Apr 14;69(4):429–30. Comment on: Am J Med Genet 1995 Mar 13;56(1):12–5.

Liability, thresholds, malformations, and syndromes [editorial; comment] Fraser FC. **Am J Med Genet** 1996 Dec 2;66(1):75–6. Comment on: Am J Med Genet 1996 Dec 2;66(1):72–4.

Chromosome abnormalities in congenital heart disease. Johnson MC, et al. **Am J Med Genet** 1997 Jun 13; 70(3):292–8

Ritscher-Schinzel (3C) syndrome: documentation of the phenotype. Kosaki K, et al. **Am J Med Genet** 1997 Feb 11;68(4):421–7 (16 ref.)

"Shifted" threshold may explain diversity of cardiovascular malformations in multiple congenital abnormalities syndromes: 3C (Ritscher-Schinzel) syndrome as an example [see comments] Lurie IW, et al. **Am J Med Genet** 1996 Dec 2;66(1):72–4. Comment in: Am J Med Genet 1996 Dec 2;66(1):75–6.

Variation in severity of cardiac disease in Holt-Oram syndrome. Sletten LJ, et al. **Am J Med Genet** 1996 Oct 16;65(2):128–32 (66 ref.)

Severe clinical phenotype due to an interstitial deletion of the short arm of chromosome 1: a brief review. Stockton DW, et al. **Am J Med Genet** 1997 Aug 8;71(2):189–93

The cardio-facio-cutaneous syndrome: a long-term follow-up of two patients, with special reference to the neurological features. Sabatino G, et al. **Childs Nerv Syst** 1997 Apr;13(4):238–41

Genetic disorders of cardiac morphogenesis. The DiGeorge and velocardiofacial syndromes [see comments] Goldmuntz E, et al. **Circ Res** 1997 Apr;80(4):437–43 (64 ref.). Comment in: Circ Res 1997 Apr;80(4):604–6.

Compartment-selective sensitivity of cardiovascular morphogenesis to combinations of retinoic acid receptor gene mutations. Lee RY, et al. **Circ Res** 1997 Jun; 80(6):757–64

Failure to detect connexin43 mutations in 38 cases of sporadic and familial heterotaxy. Gebbia M, et al. **Circulation** 1996 Oct 15;94(8):1909–12

Chromosome 22q11 deletion and other chromosome aberrations in cases with cleft palate, congenital heart defects and/or mental disability. A survey based on the Danish Facial Cleft Register. Brøndum-Nielsen K, et al. **Clin Genet** 1996 Sep;50(3):116–20

De novo 46,XX, dir dup (11)(q133.3-->q14.2) in a patient with mental retardation, congenital cardiopathy and thrombopenia. Legius E, et al. **Clin Genet** 1996 Apr; 49(4):206–10

Size of 22q deletions in four previously reported patients with conotruncal anomaly face syndrome. Pierpont JW, et al. **Clin Genet** 1996 Dec;50(6):545–7

Tri-amelia and phocomelia with multiple malformations resembling Roberts syndrome in a fetus: is it a variant or a new syndrome? Song SY, et al. **Clin Genet** 1996 Dec; 50(6):502–4

Molecular genetics of congenital heart disease. Gelb BD. **Curr Opin Cardiol** 1997 May;12(3):321–8 (42 ref.)

New understandings in the genetics of congenital heart disease. Benson DW, et al. **Curr Opin Pediatr** 1996 Oct; 8(5):505–11 (63 ref.)

A heart segmental defect in the anterior-posterior axis of a transgenic mutant mouse. Yamamura H, et al. **Dev Biol** 1997 Jun 1;186(1):58–72

Pax3 is required for cardiac neural crest migration in the mouse: evidence from the splotch (Sp2H) mutant. Conway SJ, et al. **Development** 1997 Jan;124(2):505–14

Heart and neural tube defects in transgenic mice overexpressing the Cx43 gap junction gene. Ewart JL, et al. **Development** 1997 Apr;124(7):1281–92

The incidence of a deletion in chromosome 22Q11 in sporadic and familial conotruncal heart disease [letter; comment] Devriendt K, et al. **Eur J Pediatr** 1996 Aug;155(8):721. Comment on: Eur J Pediatr 1995 Nov;154(11):878–81.

Search for 22q11 deletion in non-syndromic conotruncal cardiac defects [letter; comment] Digilio MC, et al. **Eur J Pediatr** 1996 Jul;155(7):619–20. Comment on: Eur J Pediatr 1995 Nov;154(11):878–81.

Genetic studies on abnormally located chordae in cardiac cavities. Karnolski I, et al. **Folia Med (Plovdiv)** 1996; 38(3–4):51–4

Caudal developmental field defect with female pseudohermaphroditism and VACTERL anomalies. Lukusa T, et al. **Genet Couns** 1996;7(3):207–12

BAC and PAC contigs covering 3.5 Mb of the Down syndrome congenital heart disease region between D21S55 and MX1 on chromosome 21. Hubert RS, et al. **Genomics** 1997 Apr 15;41(2):218–26

Absence of mutations in the regulatory domain of the gap junction protein connexin 43 in patients with visceroatrial heterotaxy. Penman Splitt M, et al. **Heart** 1997 Apr; 77(4):369–70

Isomerism of the atrial appendages associated with 22q11 deletion in a fetus. Yates RW, et al. **Heart** 1996 Dec; 76(6):548–9

Microdeletion 22q11 in complex cardiovascular malformations. Mehraein Y, et al. **Hum Genet** 1997 Apr; 99(4):433–42

RXR alpha deficiency confers genetic susceptibility for aortic sac, conotruncal, atrioventricular cushion, and ventricular muscle defects in mice. Gruber PJ, et al. **J Clin Invest** 1996 Sep 15;98(6):1332–43

CATCH 22: deletion of locus 22q11 in velocardiofacial syndrome, DiGeorge anomaly, and nonsyndromic conotruncal defects. Hou JW, et al. **J Formos Med Assoc** 1997 Jun;96(6):419–23

Monozygotic twins with 22q11 deletion and discordant phenotypes [letter] Fryer A. **J Med Genet** 1996 Feb; 33(2):173

Prenatal diagnosis of 22q11 deletions: a series of five cases with congenital heart defects. Raymond FL, et al. **J Med Genet** 1997 Aug;34(8):679–82

Defects in the determination of left-right asymmetry [see comments] Splitt MP, et al. **J Med Genet** 1996 Jun; 33(6):498–503 (96 ref.). Comment in: J Med Genet 1996 Dec;33(12):1052.

Intelligence and psychosocial adjustment in velocardiofacial syndrome: a study of 37 children and adolescents with VCFS. Swillen A, et al. **J Med Genet** 1997 Jun;34(6):453–8

Lack of evidence for connexin 43 gene mutations in human autosomal recessive lateralization defects. Debrus S, et al. **J Mol Cell Cardiol** 1997 May;29(5):1423–31

Ivemark syndrome with asplenia in siblings. Cesko I, et al. **J Pediatr** 1997 May;130(5):822–4

Conotruncal heart defects and chromosome 22q11 microdeletion [letter; comment] Digilio MC, et al. **J Pediatr** 1997 Apr;130(4):675–7. Comment on: J Pediatr 1996 Jul;129(1):1–3. Comment on: J Pediatr 1996 Jul;129(1):26–32.

Shprintzen-Goldberg syndrome results from mutations in fibrillin-1, not monosomy 22q11 [letter] Hatchwell E. **J Pediatr** 1997 Jul;131(1 Pt 1):164–5

Chromosome 22q11 monosomy and the genetic basis of congenital heart disease [editorial; comment] [see comments] Johnson MC, et al. **J Pediatr** 1996 Jul;129(1):1–3 . Comment on: J Pediatr 1996 Jul;129(1):26–32. Comment in: J Pediatr 1997 Apr;130(4):675–7.

Importance of microdeletions of chromosomal region 22q11 as a cause of selected malformations of the ventricular outflow tracts and aortic arch: a three-year prospective study [see comments] Webber SA, et al. **J Pediatr** 1996 Jul;129(1):26–32. Comment in: J Pediatr 1996 Jul;129(1):1–3. Comment in: J Pediatr 1997 Apr;130(4):675–7.

Mutations in human TBX5 [corrected] cause limb and cardiac malformation in Holt-Oram syndrome [published erratum appears in Nat Genet 1997 Apr;15(4):411] Basson CT, et al. **Nat Genet** 1997 Jan;15(1):30–5

Holt-Oram syndrome is caused by mutations in TBX5, a member of the Brachyury (T) gene family. Li QY, et al. **Nat Genet** 1997 Jan;15(1):21–9

Neurotrophin-3 knocks heart off Trk. Srivastava D, et al. **Nat Med** 1996 Oct;2(10):1069–71 (17 ref.)

Genetic counseling in congenital heart disease. Ardinger RH Jr. **Pediatr Ann** 1997 Feb;26(2):99–104 (12 ref.)

Genetic factors in the development of cardiovascular anomalies [editorial] Abdulla R. **Pediatr Cardiol** 1997 Jul–Aug;18(4):249–50

Understanding cardiac development through the perspective of gene regulation and gene manipulation. Witte DP, et al. **Pediatr Pathol Lab Med** 1996 Mar–Apr;16(2):173–94 (129 ref.)

Cardiovascular defects among the progeny of mouse phenylketonuria females. McDonald JD, et al. **Pediatr Res** 1997 Jul;42(1):103–7

Case report: uniparental disomy 16 in association with congenital heart disease. O'Riordan S, et al. **Prenat Diagn** 1996 Oct;16(10):963–5

The genetics of left-right development and heterotaxia. Bowers PN, et al. **Semin Perinatol** 1996 Dec;20(6):577–88 (58 ref.)

[Surviving mono-amniotic twins. Case report and review of the literature] Golaszewski T, et al. **Z Geburtshilfe Neonatol** 1997 Mar–Apr;201(2):62–4 (11 ref.) (Eng. Abstr.) **(Ger)**

[Chromosome aberrations and congenital heart malformations. I. Quantitative aberrations] Rokicka A, et al. **Przegl Lek** 1996;53(6):504–5 (69 ref.) (Eng. Abstr.) **(Pol)**

[Chromosomal aberrations and congenital heart malformations. II. Structural aberrations] Rokicka A, et al. **Przegl Lek** 1996;53(7):561–4 (107 ref.) (Eng. Abstr.) **(Pol)**

[High risk for psychosis in velo-cardio-facial sydnrome. Description of symptoms and a case report] Jönsson S, et al. **Lakartidningen** 1997 Jan 29;94(5):329–31 **(Swe)**

METABOLISM

Oxygen supply during cardiopulmonary bypass (CPB) in cyanotic patients. Tekinalp H, et al. **Adv Exp Med Biol** 1996;388:505–8

Tenascin-C, proliferation and subendothelial fibronectin in progressive pulmonary vascular disease. Jones PL, et al. **Am J Pathol** 1997 Apr;150(4):1349–60

Analysis of the three-dimensional distributions of alpha-actinin, ankyrin, and filamin in developing hearts of normal and cardiac mutant axolotls (Ambystoma mexicanum). Lemanski SF, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):155–63

Time course of endothelin-1 and nitrate anion levels after cardiopulmonary bypass in congenital heart defects. Hiramatsu T, et al. **Ann Thorac Surg** 1997 Mar;63(3):648–52

Biosynthesis of prostacyclin and thromboxane A2 during chronic hypoxaemia in children with cyanotic congenital

heart disease. Leonhardt A, et al. **Eur J Clin Invest** 1996 Dec;26(12):1057–61

MORTALITY

Sudden cardiac death in the adult with congenital heart disease. Harrison DA, et al. **Can J Cardiol** 1996 Nov; 12(11):1161–3

Causes of sudden death in young and middle–aged competitive athletes. Virmani R, et al. **Cardiol Clin** 1997 Aug;15(3):439–66 (79 ref.)

Ten–year survival of Down syndrome births. Hayes C, et al. **Int J Epidemiol** 1997 Aug;26(4):822–9

Outcomes after bidirectional cavopulmonary shunt in infants less than 6 months old. Reddy VM, et al. **J Am Coll Cardiol** 1997 May;29(6):1365–70

Near misses and disasters in the treatment of grown–up congenital heart patients. Somerville J. **J R Soc Med** 1997 Mar;90(3):124–7

[Analysis of maternal and fetal risk in 594 pregnancies with heart disease] Wada H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Apr; 48(4):255–62 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Aortic outflow obstruction in visceral heterotaxy: a study based on twenty postmortem cases. Van Praagh S, et al. **Am Heart J** 1997 May;133(5):558–69

Drowning of a girl with anomaly of the bundle of His and the right bundle branch. Stumpp JW, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):208–10

Left and right ventricular dysplasia and Uhl's anomaly. A case report. Sutter A, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):141–5

Abnormalities of the heart and great arteries in first trimester chromosomally abnormal fetuses. Hyett J, et al. **Am J Med Genet** 1997 Mar 17;69(2):207–16

Cardiovascular malformations in Smith–Lemli–Opitz syndrome. Lin AE, et al. **Am J Med Genet** 1997 Jan 31; 68(3):270–8 (102 ref.)

Intestinal malrotation in a child with cardio–facio–cutaneous syndrome. McDaniel CH, et al. **Am J Med Genet** 1997 Jun 13;70(3):284–6 (30 ref.)

Noncompaction of the ventricular myocardium in Melnick–Needles syndrome. Wong JA, et al. **Am J Med Genet** 1997 Jul 11;71(1):72–5

Tenascin–C, proliferation and subendothelial fibronectin in progressive pulmonary vascular disease. Jones PL, et al. **Am J Pathol** 1997 Apr;150(4):1349–60

A syndrome of short stature, mental retardation, facial dysmorphism, short webbed neck, skin changes and congenital heart disease. al–Gazali LI, et al. **Clin Dysmorphol** 1996 Oct;5(4):321–7

Oculo–facio–cardio–dental (OFCD) syndrome [letter] Obwegeser HL, et al. **Clin Dysmorphol** 1997 Jul;6(3):281–3

Bonneau syndrome: a further case report [letter] Rajab A. **Clin Dysmorphol** 1997 Jan;6(1):85–8

Ectrodactyly of lower limbs, congenital heart defect and characteristic facies in four unrelated Dutch patients: a new association. Van Den Ende JJ, et al. **Clin Dysmorphol** 1996 Jan;5(1):1–7

The nature of the annular attachment of a common atrioventricular valve in hearts with isomeric atrial appendages. Uemura H, et al. **Eur J Cardiothorac Surg** 1996; 10(7):540–5

The Holt–Oram syndrome: radiological approach. Penne D, et al. **J Belge Radiol** 1997 Jun;80(3):118–9

Outflow tract abnormalities in atrioventricular canal malformations. Campbell KA, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb;15(1):11–21

Abnormal vasculature of the liver in thoracopagus twins: case report. Spencer R, et al. **Pediatr Pathol Lab Med** 1997 Mar–Apr;17(2):315–27

Different grades of medial hypertrophy and intimal changes in small pulmonary arteries among various types of congenital heart disease with pulmonary hypertension. Yamaki S, et al. **Tohoku J Exp Med** 1997 May;182(1):83–91

Kinking of the ductus arteriosus: authors' reply [letter] Mielke G, et al. **Ultrasound Obstet Gynecol** 1995 Dec; 6(6):453–4

[The quadri–cusp aortic valve: a congenital defect, responsible for pathologic changes?] Vicol C, et al. **Z Kardiol** 1997 Jul;86(7):538–40 (Eng. Abstr.) **(Ger)**

[Morphologic manifestations of microcirculatory system pathology in premature infants] Iarygin NE, et al. **Arkh Patol** 1996 Jan–Feb;58(1):47–51 (Eng. Abstr.) **(Rus)**

[The ultrastructural characteristics of specific endothelial granules in the myocardial microvessels in congenital heart defects] Litasova EE, et al. **Morfologiia** 1996;110(5):58–63 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Hemodynamic effects of tracheal and intravenous adrenaline in infants with congenital heart anomalies. Jonmarker C, et al. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 1):927–31

Role of right ventricular and pulmonary functional abnormalities in limiting exercise capacity in adults with congenital heart disease. Rigolin VH, et al. **Am J Cardiol** 1997 Aug 1;80(3):315–22

Is noninvasive determination of pulmonary artery pressure feasible using deceleration phase Doppler flow velocity characteristics in mechanically ventilated children with congenital heart disease? van Dijk AP, et al. **Am J Cardiol** 1996 Dec 15;78(12):1394–9

Pressure support ventilation augments spontaneous breathing with improved thoracoabdominal synchrony in neonates with congenital heart disease. Tokioka H, et al. **Anesth Analg** 1997 Oct;85(4):789–93

Visual function in velocardiofacial syndrome. Kok LL, et al. **Aust N Z J Ophthalmol** 1996 May;24(2 Suppl):53–5

Alveolar epithelial lining fluid cellularity, protein and endothelin–1 in children with congenital heart disease. Grigg J, et al. **Eur Respir J** 1996 Jul;9(7):1381–8

Sequelae after modified Fontan operation: postoperative haemodynamic data and organ function. Kaulitz R, et al. **Heart** 1997 Aug;78(2):154–9

Doppler echocardiographic evaluation of pulmonary vascular resistance in children with congenital heart disease. Ebeid MR, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):822–31

Dynamics of respiratory gas exchange during exercise after correction of congenital heart disease. Reybrouck T, et al. **J Appl Physiol** 1996 Feb;80(2):458–63

Successful regional anesthesia for a woman with a single ventricle presenting for labor and delivery. Ammar T, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):640–2

The adult patient with congenital heart disease. Baum VC. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):261–82 (221 ref.)

Data preprocessing in spectral analysis of heart rate variability. Handling trends, ectopy, and electrical noise [editorial] Ramanathan A, et al. **J Electrocardiol** 1996 Jan; 29(1):45–7

Pulmonary blood flow regulates plasma tissue plasminogen activator concentrations in patients with congenital heart defects. Mishima A, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):742–7

Malpuech facial clefting syndrome in a Japanese boy with cardiac defects. Chinen Y, et al. **Jpn J Hum Genet** 1995 Dec;40(4):335–8

Instantaneous subaortic outflow obstruction after volume reduction in hearts with univentricular atrioventricular connection and discordant ventriculoarterial connection. van Son JA, et al. **Mayo Clin Proc** 1997 Apr;72(4):309–14

A mathematical model of circulation in the presence of the bidirectional cavopulmonary anastomosis in children with a univentricular heart. Pennati G, et al. **Med Eng Phys** 1997 Apr;19(3):223–34

Effects of oxygen and nitric oxide in oxygen on pulmonary arterial pressures of children with congenital cardiac defects. Allman KG, et al. **Pediatr Cardiol** 1996 Jul–Aug; 17(4):246–50

Pseudohypertension and Williams syndrome [letter]. Bastianon V. **Pediatr Cardiol** 1996 Mar–Apr;17(2):132

Lung mechanics in infants with left–to–right shunt congenital heart disease. Yau KI, et al. **Pediatr Pulmonol** 1996 Jan; 21(1):42–7

Post–exercise response of ventricular ejection fraction after total repair of congenital heart disease with left to right shunt. Choe KO, et al. **Yonsei Med J** 1996 Feb;37(1):19–30

[Plasticity of the myocardium in pediatric cardiology] Bonnet D. **Arch Pediatr** 1996 Dec;3(12):1273–5 (12 ref.) (Eng. Abstr.) **(Fre)**

[Request for pathophysiologic explanation of hypoxemic disorders (e.g. heart defect with right–left shunt, diseases with respiratory insufficiency) leading to clubbed fingers and toes and hour–glass nail manifestations] Horstkotte. **Internist (Berl)** 1996 Nov;37(11):1170–1 **(Ger)**

[Congenital heart disease with ductus dependent systemic blood flow] Yasuda T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):228–31 (4 ref.) **(Jpn)**

PREVENTION & CONTROL

Efficacy of routine fetal ultrasound screening for congenital heart disease in normal pregnancy. Buskens E, et al. **Circulation** 1996 Jul 1;94(1):67–72

Effectiveness of primary level antenatal screening for severe congenital heart disease: a population–based assessment. Sinclair BG, et al. **J Perinatol** 1996 Sep–Oct;16(5):336–40

Periconceptional multivitamin use and the occurrence of conotruncal heart defects: results from a population–based, case–control study. Botto LD, et al. **Pediatrics** 1996 Nov; 98(5):911–7

PSYCHOLOGY

The dilemmas of parents of adolescents and young adults with congenital heart disease. Sparacino PS, et al. **Heart Lung** 1997 May–Jun;26(3):187–95

Treatment characteristics of congenital heart disease and behaviour problems of patients and healthy siblings. Janus M, et al. **J Paediatr Child Health** 1997 Jun;33(3):219–25

Behavioral adjustment of children with surgically palliated complex congenital heart disease. Casey FA, et al. **J Pediatr Psychol** 1996 Jun;21(3):335–52

Factors influencing family participation in a longitudinal study: comparison of pediatric and healthy samples. Janus M, et al. **J Pediatr Psychol** 1997 Apr;22(2):245–62

[Psychopathology of chronic diseases in children and adolescents. Congenital cardiopathies] Masi G, et al. **Minerva Cardioangiol** 1996 Oct;44(10):479–93 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Prospective angiographic study of the abnormalities of systemic venous connections in congenital and acquired heart disease. Parikh SR, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):379–86

Angiographic determination of ventricular morphology: correlation with pathology in 36 hearts with single functional ventricles. Julsrud PR, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):208–12

Magnetic resonance imaging in congenital heart disease in children. Schlesinger AE, et al. **Tex Heart Inst J** 1996; 23(2):128–43 (95 ref.)

Spiral and ultrafast computed tomography for noninvasive cardiac imaging in children. Westra SJ. **West J Med** 1996 Jul–Aug;165(1–2):55–6

[Thoracic radiography as routine within cardiological diagnosis?] Häuber B, et al. **Dtsch Med Wochenschr** 1997 Mar 27;122(13):396–9 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Pulmonary atresia with intact septum. Findings on exercise stress sestamibi scan. Fisher DJ, et al. **Clin Nucl Med** 1997 Aug;22(8):560–1

MR imaging in the morphologic diagnosis of congenital heart disease. Choe YH, et al. **Radiographics** 1997 Mar–Apr; 17(2):403–22

REHABILITATION

[The medical aspects of the rehabilitation of patients with congenital heart defects and the problems of their social integration into modern society] Gritsenko VV, et al. **Vestn Khir Im I I Grek** 1997;156(2):11–6 (Eng. Abstr.) **(Rus)**

[Hyperbaric oxygenation in the combined sanatorium rehabilitation of patients with corrected heart defects] Volkov VS, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Mar–Apr;(2):13–4 **(Rus)**

SURGERY

Conduits in the pulmonary circulation. Brown JW, et al. **Adv Card Surg** 1996;8:109–29

Surgical implications in hearts with isomeric atrial appendages. Uemura H, et al. **Adv Card Surg** 1996;7:101–35 (33 ref.)

Oxygen supply during cardiopulmonary bypass (CPB) in cyanotic patients. Tekinalp H, et al. **Adv Exp Med Biol** 1996;388:505–8

Embolic stroke after ligation of the pulmonary artery in patients with functional single ventricle. Oski JA, et al. **Am Heart J** 1996 Oct;132(4):836–40

Effectiveness of sotalol for atrial flutter in children after surgery for congenital heart disease. Beaufort–Krol GC, et al. **Am J Cardiol** 1997 Jan 1;79(1):92–4

Right ventricular function in patients treated with inhaled nitric oxide after cardiac surgery for congenital heart disease in newborns and children. Schulze–Neick I, et al. **Am J Cardiol** 1997 Aug 1;80(3):360–3

Persistence of human leukocyte antigen (HLA) antibodies after one year in children receiving cryopreserved valved allografts. Shaddy RE, et al. **Am J Cardiol** 1997 Aug 1; 80(3):358–9

The influence of cardiopulmonary bypass on ionized magnesium in neonates, infants, and children undergoing heart or congenital heart lesions. Fox ML, et al. **Anesth Analg** 1997 Mar;84(3):497–500

Nitric–oxide–induced reoxygenation injury in the cyanotic immature heart is prevented by controlling oxygen content during initial reoxygenation. Ihnken K, et al. **Angiology** 1997 Mar;48(3):189–202

Muscle flap reconstruction of pediatric poststernotomy wound infections. Grant RT, et al. **Ann Plast Surg** 1997 Apr;38(4):365–70

Successful repair of ectopia cordis using alloplastic materials. Kim KA, et al. **Ann Plast Surg** 1997 May;38(5):518–22

Fate of trileaflet equine pericardial extracardiac conduit used for the correction of anomalies having pulmonic ventricle–pulmonary arterial discontinuity. Ando M, et al. **Ann Thorac Surg** 1997 Jul;64(1):154–8

Early coronary sinus reroofing using the left atrial baffle. Beyens T, et al. **Ann Thorac Surg** 1997 Mar;63(3):832–3

Improved exposure for TAPVC repair by posterior approach [letter] Bhan A, et al. **Ann Thorac Surg** 1996 Dec;62(6):1888

Nonvalved homografts of thoracic aorta in operation for complex congenital cardiac disease. Bové T, et al. **Ann Thorac Surg** 1996 Nov;62(5):1347–50

Multiple left heart obstructions (Shone's anomaly) with mitral valve involvement: long–term surgical outcome. Brauner RA, et al. **Ann Thorac Surg** 1997 Sep;64(3):721–9

Perioperative risk and long–term results of heart transplantation after previous cardiac operations. Carrel T, et al. **Ann Thorac Surg** 1997 Apr;63(4):1133–7

Serum lactates correlate with mortality after operations for complex congenital heart disease. Cheifetz IM, et al. **Ann Thorac Surg** 1997 Sep;64(3):735–8

Bidirectional cavopulmonary anastomosis with intracardiac repair. Clapp SK, et al. **Ann Thorac Surg** 1997 Mar; 63(3):746–50

One–stage repair of truncus arteriosus, CAVC, and TAPVC. Conte S, et al. **Ann Thorac Surg** 1997 Jun;63(6):1781–3

Prospective, randomized, double–blind study of high–dose

aprotinin in pediatric cardiac operations. Davies MJ, et al. **Ann Thorac Surg** 1997 Feb;63(2):497–503

Recognition and management of obstructed pulmonary veins draining to the coronary sinus. DeLeon MM, et al. **Ann Thorac Surg** 1997 Mar;63(3):741–4; discussion 744–5

Cardiac tamponade after a systemic–pulmonary shunt complicated by serous leakage. García-Guereta L, et al. **Ann Thorac Surg** 1997 Jan;63(1):248–9; discussion 250

The Fontan procedure in adults. Gates RN, et al. **Ann Thorac Surg** 1997 Apr;63(4):1085–90

Time course of endothelin-1 and nitrate anion levels after cardiopulmonary bypass in congenital heart defects. Hiramatsu T, et al. **Ann Thorac Surg** 1997 Mar;63(3):648–52

Outcomes after delayed sternal closure in pediatric heart operations: a 10-year experience. Iyer RS, et al. **Ann Thorac Surg** 1997 Feb;63(2):489–91

Expanded PTFE membrane to prevent cardiac injury during resternotomy for congenital heart disease. Jacobs JP, et al. **Ann Thorac Surg** 1996 Dec;62(6):1778–82

Modified ultrafiltration reduces postoperative morbidity after cavopulmonary connection. Koutlas TC, et al. **Ann Thorac Surg** 1997 Jul;64(1):37–42; discussion 43

Intermediate results of the extracardiac Fontan procedure. Laschinger JC, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1261–7; discussion 1266–7

Bidirectional inferior vena cava–pulmonary artery shunt. Macé L, et al. **Ann Thorac Surg** 1997 May;63(5):1321–5

Configuration of linear dynamic cardiomyoplasty for hypoplastic right ventricle. Morita K, et al. **Ann Thorac Surg** 1997 Mar;63(3):676–82

Ventricular hypertrophy as a risk factor in ventricular septation for double-inlet left ventricle. Nagashima M, et al. **Ann Thorac Surg** 1997 Sep;64(3):730–4

Pulmonary atresia with intact ventricular septum: results of the Fontan procedure. Najm HK, et al. **Ann Thorac Surg** 1997 Mar;63(3):669–75

Correction of anomalous systemic venous drainage in heterotaxy syndrome. Palacios-Macedo AX, et al. **Ann Thorac Surg** 1997 Jul;64(1):235–7; discussion 237–8

Correction of left superior vena cava draining to the left atrium using extracardiac techniques. Reddy VM, et al. **Ann Thorac Surg** 1997 Jun;63(6):1800–2

Correction of anomalous systemic venous drainage: transposition of left SVC to left PA. Takach TJ, et al. **Ann Thorac Surg** 1997 Jan;63(1):228–30

Effect of heparin loading during congenital heart operation on thrombin generation and blood loss. Turner-Gomes SO, et al. **Ann Thorac Surg** 1997 Feb;63(2):482–8

Risk factors for higher cost in congenital heart operations. Ungerleider RM, et al. **Ann Thorac Surg** 1997 Jul; 64(1):44–8; discussion 49

Developments in surgical palliation of univentricular physiology [letter] van Son JA, et al. **Ann Thorac Surg** 1997 Jan;63(1):301–3

Patch augmentation of regurgitant common atrioventricular valve in univentricular physiology. van Son JA, et al. **Ann Thorac Surg** 1997 Aug;64(2):508–10

Extracorporeal membrane oxygenation as a bridge to cardiac transplantation in children. Ishino K, et al. **Artif Organs** 1996 Jun;20(6):728–32

Effects of inhaled nitric oxide on postoperative pulmonary circulation in patients with congenital heart disease. Matsui J, et al. **Artif Organs** 1997 Jan;21(1):17–20

Effect of nitric oxide on oxygenation and hemodynamics in infants after cardiac surgery. Sadao K, et al. **Artif Organs** 1997 Jan;21(1):14–6

Inhaled low-dose nitric oxide for postoperative care in patients with congenital heart defects. Shimpo H, et al. **Artif Organs** 1997 Jan;21(1):10–3

Effect of hypothermia on rectal mucosal perfusion in infants undergoing cardiopulmonary bypass. Booker PD, et al. **Br J Anaesth** 1996 Nov;77(5):591–6

Congenital heart disease in adults. Findlow D, et al. **Br J Anaesth** 1997 Apr;78(4):416–30 (130 ref.)

Anaesthetic managements for conjoined twins with complex cardiac anomalies. Chen TL, et al. **Can J Anaesth** 1996 Nov;43(11):1161–7

Open-heart surgery in Jehovah's Witness patients. Chikada M, et al. **Cardiovasc Surg** 1996 Jun;4(3):311–4

Effects of cardiac surgery on intellectual function in infants and children. Haneda K, et al. **Cardiovasc Surg** 1996 Jun; 4(3):303–7

Continuous venovenous haemofiltration in neonates with renal insufficiency resulting from low cardiac output syndrome after cardiac surgery. Leyh RG, et al. **Cardiovasc Surg** 1996 Aug;4(4):520–5

Continuous transoesophageal echocardiography monitoring during weaning from cardiopulmonary bypass in children. Ninomiya J, et al. **Cardiovasc Surg** 1997 Feb;5(1):129–33

Subglottic stenosis complicating cardiac surgery in children. Pereira KD, et al. **Chest** 1997 Jun;111(6):1769–72

Surgical treatment of coronary artery fistulae associated with other cardiovascular anomalies. Chen Y, et al. **Chin Med J (Engl)** 1996 May;109(5):393–8

Surgical management of total anomalous pulmonary venous connection. Thirty-year trends. Bando K, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II12–6

Bidirectional superior cavopulmonary connection in young infants. Bradley SM, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II5–11

Pharmacological control of pulmonary blood flow with inhaled nitric oxide after the fenestrated Fontan operation. Goldman AP, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II44–8

Radiofrequency catheter ablation of right ventricular tachycardia late after repair of congenital heart defects. Gonska BD, et al. **Circulation** 1996 Oct 15;94(8):1902–8

Outcome of patients with ectopia cordis and significant intracardiac defects. Hornberger LK, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II32–7

Cardiac troponin T isoform expression correlates with pathophysiological descriptors in patients who underwent corrective surgery for congenital heart disease. Saba Z, et al. **Circulation** 1996 Aug 1;94(3):472–6

Glenn Lecture. How to choose a cardiac surgeon. Stark J. **Circulation** 1996 Nov 1;94(9 Suppl):II1–4

Renal insufficiency in neonates after cardiac surgery. Asfour B, et al. **Clin Nephrol** 1996 Jul;46(1):59–63

Life expectancy and social adaptation in individuals with Down syndrome with and without surgery for congenital heart disease. Hijii T, et al. **Clin Pediatr (Phila)** 1997 Jun; 36(6):327–32

Perioperative lymphocyte adenylyl cyclase function in the pediatric cardiac surgical patient. Sun LS, et al. **Crit Care Med** 1996 Oct;24(10):1654–9

The balance of pro and anti-inflammatory cytokines in plasma and bronchoalveolar lavage (BAL) at paediatric cardiac surgery. McBride WT, et al. **Cytokine** 1996 Sep; 8(9):724–9

Release of interleukin 6 and activation of complement during and after paediatric cardiopulmonary bypass. Effect of autotransfusion of shed mediastinal blood and ultrafiltration. Saatvedt K, et al. **Cytokine** 1996 May; 8(5):417–20

Clinical presentation and surgical results in a patient who has multiple congenital heart defects [letter] Zeybek R, et al. **Eur Heart J** 1997 Jul;18(7):1191–3

Sinus venosus atrial septal defects: surgical follow-up. Agrawal SK, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):455–7

Replacement of right ventricle to pulmonary artery and right atrium to right ventricle homograft after a modified Rastelli operation. Amirghofran AA, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):588–90

Repair of aortic arch interruption by direct anastomosis. Bogers AJ, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):100–4

Mechanical valve in aortic position is a valid option in children and adolescents. Champsaur G, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):117–22

The relation between arterial oxygen tension and cerebral blood flow during cardiopulmonary bypass. Chow G, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):633–9

Management of the univentricular connection: are we improving? Cochrane AD, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):107–15

Is the arterial switch operation still a challenge in small centers? Conte S, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):682–6

Trial of pulmonary artery banding: a diagnostic criterion for 'one-stage' arterial switch in simple transposition of the great arteries beyond the neonatal period. Däbritz S, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):112–6

Combined Rastelli and atrial switch procedure: anatomic and physiologic correction of discordant atrioventricular connection associated with ventricular septal defect and left ventricular outflow tract obstruction. Delius RE, et al. **Eur J Cardiothorac Surg** 1996;10(7):551–5

Congenital absence of the left pericardium with extreme intrathoracic displacement of the heart. Case report and review of the literature. Gersbach P, et al. **Eur J Cardiothorac Surg** 1996;10(6):473–6 (16 ref.)

Fore quarter gangrene: complication of Blalock-Taussig shunt. Hussain R, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):582–4

Myocardial recovery through ECMO after repair of total anomalous pulmonary venous connection: the importance of left heart unloading. Ishino K, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):585–7

Bidirectional Glenn followed by total cavopulmonary connection or primary total cavopulmonary connection? Kostelka M, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):177–83

Surgical management of atrio ventricular septal defects with normal caryotype. Lacour-Gayet F, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):466–72

The clamshell approach for the surgical treatment of complex cardiopulmonary pathology in infants and children. Luciani GB, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):298–306

Pulmonary artery banding: adequacy and long-term outcome. Pinho P, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):105–11

Comparative assessment of Fontan operation in modifications of atriopulmonary and total cavopulmonary anastomoses. Podzolkov VP, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):458–65

Ross procedure in congenital patients: results and left ventricular function. Rubay JE, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):92–9

Accelerated aortic allograft fibrocalcification after right ventricular outflow tract reconstruction in pediatric patients: report of two cases. Santini F, et al. **Eur J Cardiothorac Surg** 1996;10(4):290–3

Risk factors for early degeneration of allografts in pulmonary circulation. Schorn K, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):62–9

Early and long-term results for correction of total anomalous pulmonary venous drainage (TAPVD) in neonates and infants. Sinzobahamvya N, et al. **Eur J Cardiothorac Surg** 1996;10(6):433–8

Intracardiac repair of lesions associated with atrioventricular discordance. Szufladowicz M, et al. **Eur J Cardiothorac Surg** 1996;10(6):443–8

Lecompte operation with preservation of the pulmonary valve for anomalies of ventriculoarterial connection with ventricular septal defect and subpulmonary stenosis. van Son JA, et al. **Eur J Cardiothorac Surg** 1996;10(7):585–9

An alternative method for repair of aortico-left ventricular tunnel associated with severe aortic stenosis presenting in a newborn. Weldner P, et al. **Eur J Cardiothorac Surg** 1996; 10(5):380–2

Evaluation of gastric intramucosal pH during and after pediatric cardiac surgery. Wippermann CF, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):190–4

Aneurysm of the membranous septum in adult patients with perimembranous ventricular septal defect. Yilmaz AT, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):307–11

Surgical treatment of a fistula between the right pulmonary artery and the left atrium: presentation of two cases and review of literature. Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1056–61 (58 ref.)

Ethics committees and the treatment of congenital heart disease [editorial] Dear PR. **Heart** 1996 Dec;76(6):463–4

Bidirectional superior cavopulmonary anastomosis: how young is too young? [letter; comment] Qureshi SA, et al. **Heart** 1997 Jul;78(1):95. Comment on: Heart 1996 Jan;75(1):78–82.

Right ventricle to pulmonary artery connections. Dharmapuram AK, et al. **Indian Heart J** 1997 Jan–Feb; 49(1):65–70

Inhaled nitric oxide as therapy for pulmonary hypertension in postoperative cases of congenital heart defects. Murthy KS, et al. **Indian Heart J** 1996 Nov–Dec;48(6):695–8

Bidirectional Glenn shunt: a step in the right direction. Narayan R, et al. **Indian Heart J** 1996 Jul–Aug;48(4):375–80

Neonatal correction of interrupted aortic arch, aortopulmonary window and ascending aortic origin of right pulmonary artery. Sharma R, et al. **Indian Heart J** 1996 Nov–Dec;48(6):717–20

Radiofrequency catheter ablation of accessory pathways in association with congenital heart disease. Singh B, et al. **Indian Heart J** 1997 Mar–Apr;49(2):198–200

Measurement of plasma histamine by high performance liquid chromatography and radioimmunoassay. Withington DE, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S77–8

Dilatable prosthesis for banding the main pulmonary artery: human clinical trials. Vince DJ, et al. **Int J Card Imaging** 1996 Sep;12(3):205–12

Isolated right ventricular diverticulum with chest pain. Ho KT, et al. **Int J Cardiol** 1997 Mar;59(1):89–91

Intermittent administration of furosemide versus continuous infusion in the postoperative management of children following open heart surgery. Klinge JM, et al. **Intensive Care Med** 1997 Jun;23(6):693–7

Initial postoperative serum lactate levels predict survival in children after open heart surgery. Siegel LB, et al. **Intensive Care Med** 1996 Dec;22(12):1418–23

Use of the modified technique of ultrafiltration in pediatric open-heart surgery: a prospective study. Ad N, et al. **Isr J Med Sci** 1996 Dec;32(12):1326–31

Homografts in congenital heart disease: current applications and future directions. McElhinney DB, et al. **Isr J Med Sci** 1996 Oct;32(10):880–5 (30 ref.)

Total repair of congenital heart disease in the very young. Neveux JY. **Isr J Med Sci** 1996 Oct;32(10):886–7 (8 ref.)

Systemic venous collateral channels causing desaturation after bidirectional cavopulmonary anastomosis: evaluation and management. McElhinney DB, et al. **J Am Coll Cardiol** 1997 Sep;30(3):817–24

Outcomes after bidirectional cavopulmonary shunt in infants less than 6 months old. Reddy VM, et al. **J Am Coll Cardiol** 1997 May;29(6):1365–70

Evaluation of a staged treatment protocol for rapid automatic junctional tachycardia after operation for congenital heart disease. Walsh EP, et al. **J Am Coll Cardiol** 1997 Apr; 29(5):1046–53

Factors affecting hypertrophic scar development in median sternotomy incisions for congenital cardiac surgery. Nakamura K, et al. **J Am Coll Surg** 1997 Sep;185(3):218–23

A numerical fluid mechanical study of repaired congenital heart defects. Application to the total cavopulmonary connection. Dubini G, et al. **J Biomech** 1996 Jan; 29(1):111–21

A computational pulsatile model of the bidirectional cavopulmonary anastomosis: the influence of pulmonary forward flow. Migliavacca F, et al. **J Biomech Eng** 1996 Nov;118(4):520–8

Thoracotomy approach for congenital and acquired heart defects: its possible applications in the current era. Cherian KM, et al. **J Card Surg** 1996 Jan–Feb;11(1):37–45

Application of ultra short acting beta blockade (esmolol) in pediatric open heart surgery: a trial in total anomalous pulmonary venous return. Matsuda H, et al. **J Card Surg** 1996 Nov–Dec;11(6):411–5; discussion 416

The influence of a heparin-coated oxygenator during cardiopulmonary bypass on postoperative lung oxygenation

capacity in pediatric patients with congenital heart anomalies. Watanabe H, et al. **J Card Surg** 1996 Nov-Dec; 11(6):396-401

Intra-atrial reentrant tachycardia after palliation of congenital heart disease: characterization of multiple macroreentrant circuits using fluoroscopically based three-dimensional endocardial mapping. Triedman JK, et al. **J Cardiovasc Electrophysiol** 1997 Mar;8(3):259-70

The significance of oncometry for infusion therapy during pediatric heart surgery. Bartels C, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):249-55

Primary repair of interrupted aortic arch and associated heart lesions in newborns. Tláskal T, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):113-8

Pentalogy of Cantrell corrected by one-stage repair. Chen Y, et al. **J Formos Med Assoc** 1996 Jul;95(7):555-7

Ventricular dysfunction in the pediatric population: evaluation and intervention. Hanna BD. **J Heart Lung Transplant** 1997 Jun;16(6):S16-8 (22 ref.)

Factors influencing medium-term performance of right-sided cryopreserved homografts. Daenen W, et al. **J Heart Valve Dis** 1997 Jul;6(4):347-53; discussion 353-4

Mechanical valve replacement in congenital heart disease [see comments] Fiane AE, et al. **J Heart Valve Dis** 1996 May; 5(3):337-42. Comment in: J Heart Valve Dis 1996 Sep;5(5):570-1.

Evaluation of cryopreserved homografts in the right ventricular outflow tract after the Ross procedure: intermediate-term follow up. Ward KE, et al. **J Heart Valve Dis** 1997 Mar;6(2):130-3

Animal model of the univentricular heart and single ventricular physiology. Randsbaek F, et al. **J Invest Surg** 1996 Sep-Oct;9(5):375-84

Early extubation following open heart surgery in pediatric patients with congenital heart diseases. Prakanrattana U, et al. **J Med Assoc Thai** 1997 Feb;80(2):87-95

Reversal of protein-losing enteropathy with heparin therapy in three patients with univentricular hearts and Fontan palliation. Donnelly JP, et al. **J Pediatr** 1997 Mar; 130(3):474-8

Chylous ascites associated with atrioventricular valve regurgitation after Blalock-Taussig shunt. Ogasawara M, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):501-3

Infant thoracic surgery: procedure-dependent pulmonary response. Greenspan JS, et al. **J Pediatr Surg** 1996 Jul; 31(7):878-80

Pulmonary hypertension after operations for congenital heart disease: analysis of risk factors and management. Bando K, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1600-7; discussion 1607-9

Factors in the early failure of cryopreserved homograft pulmonary valves in children: preserved immunogenicity? Baskett RJ, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1170-8; discussion 1178-9

Takedown of Glenn shunts in adults with congenital heart disease with polytetrafluoroethylene grafts: technique and long-term follow-up. Bruckheimer E, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):607-8

Is a high-risk biventricular repair always preferable to conversion to a single ventricle repair? Delius RE, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1561-8; discussion 1568-9

Inhaled nitric oxide in patients with critical pulmonary perfusion after Fontan-type procedures and bidirectional Glenn anastomosis. Gamillscheg A, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):435-42

Fontan operation in five hundred consecutive patients: factors influencing early and late outcome. Gentles TL, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):376-91

Functional outcome after the Fontan operation: factors influencing late morbidity. Gentles TL, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):392-403; discussion 404-5

Early extubation after cardiac operations in neonates and young infants. Heinle JS, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):413-8

Modified Fontan procedure in ninety-nine cases of atrioventricular valve regurgitation. Imai Y, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):262-8; discussion 269

Coagulation factor abnormalities after the Fontan procedure and its modifications. Jahangiri M, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):989-92; discussion 992-3

Pulmonary artery growth after bidirectional cavopulmonary shunt: is there a cause for concern? Reddy VM, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1180-90; discussion 1190-2

Right heart bypass with an extracardiac conduit for functionally single ventricle with anomalous pulmonary venous connection to the right atrium. Roberts CS, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):297-8

Repair of interrupted aortic arch: a ten-year experience. Serraf A, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1150-60

Plasma neuropeptide Y and catecholamines in pediatric patients undergoing cardiac operations. Sun LS, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):278-84

Delayed sternal closure after cardiac operations in a pediatric population. Tabbutt S, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):886-93

Pedicled pericardial flaps [letter; comment] Ulrik H. **J Thorac Cardiovasc Surg** 1997 May;113(5):958. Comment on: J Thorac Cardiovasc Surg 1988 Apr;95(4):738.

Superior vena cava to pulmonary artery anastomosis: an adjunct to biventricular repair. Van Arsdell GS, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1143-8; discussion 1148-9

Cryopreserved homograft monocusp valves for reconstruction of the right ventricular outflow tract [letter; comment] Vogt PR, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):423. Comment on: J Thorac Cardiovasc Surg 1996 Jul;112(1):33-7.

MR imaging of surgical complications of systemic-to-pulmonary artery shunts. Duerinckx A, et al. **Magn Reson Imaging** 1996;14(9):1099-105

Instantaneous subaortic outflow obstruction after volume reduction in hearts with univentricular atrioventricular connection and discordant ventriculoarterial connection. van Son JA, et al. **Mayo Clin Proc** 1997 Apr;72(4):309-14

A mathematical model of circulation in the presence of the bidirectional cavopulmonary anastomosis in children with a univentricular heart. Pennati G, et al. **Med Eng Phys** 1997 Apr;19(3):223-34

Sotalol for atrial tachycardias after surgery for congenital heart disease. Beaufort-Krol GC, et al. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2125-9

Can intraatrial reentry be prevented by changes in surgical technique? Ebels T. **Pacing Clin Electrophysiol** 1997 Aug; 20(8 Pt 2):2118-20

Atrial arrhythmias during chronic follow-up of surgery for complex congenital heart disease. Kanter RJ, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):502-11 (31 ref.)

Electrophysiology of "incisional" reentrant atrial tachycardia complicating surgery for congenital heart disease. Lesh MD, et al. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2107-11 (10 ref.)

Radiofrequency ablation of intraatrial reentrant tachycardia after surgery for congenital heart disease. Saul JP, et al. **Pacing Clin Electrophysiol** 1997 Aug;20(8 Pt 2):2112-7 (35 ref.)

The pharmacological armament of pediatric cardiology [editorial] Abdulla R. **Pediatr Cardiol** 1997 May-Jun; 18(3):161

The pediatric cardiology pharmacopoeia. Abdulla R, et al. **Pediatr Cardiol** 1997 May-Jun;18(3):162-83

Shots and shunts [letter]. Davidson A, et al. **Pediatr Cardiol** 1996 Mar-Apr;17(2):132-3

Fenestrated fontan procedure: evolution of technique and occurrence of paradoxical embolism. Quinones JA, et al. **Pediatr Cardiol** 1997 May-Jun;18(3):218-21

Lung perfusion patterns after bidirectional cavopulmonary anastomosis (Hemi-Fontan procedure). Seliem MA, et al. **Pediatr Cardiol** 1997 May-Jun;18(3):191-6

Protein-losing enteropathy after the modified fontan operation: oral prednisone treatment with biopsy and laboratory proved improvement. Zellers TM, et al. **Pediatr Cardiol** 1996 Mar-Apr;17(2):115-7

Transient secondary hypothyroidism in children after cardiac surgery. Bettendorf M, et al. **Pediatr Res** 1997 Mar; 41(3):375-9

Preoperative versus postoperative extracorporeal life support in neonatal cardiac patients. McKay VJ, et al. **Perfusion** 1997 May;12(3):179-86 (16 ref.)

Cardiopulmonary bypass venous cannulation challenges in a paediatric patient with complex congenital heart disease: a case report. Manzer R, et al. **Perfusion** 1997 May; 12(3):203-6

Ivemark syndrome. A case with successful surgical intervention. Tkebuchava T, et al. **Scand Cardiovasc J** 1997; 31(3):173-5 (8 ref.)

Lung transplantation in children with pulmonary hypertension and congenital heart disease. Spray TL. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):286-95

Paediatric pacemaker implant using the transvenous endocardial approach. Quek SC, et al. **Singapore Med J** 1995 Aug;36(4):447-9

Intraoperative transesophageal echocardiography in congenital heart surgery. The Texas Children's Hospital experience. Bezold LI, et al. **Tex Heart Inst J** 1996; 23(2):108-15

Myocardial protection by pressure- and volume-controlled continuous hypothermic coronary perfusion (PVC-CONTHY-CAP) in combination with ultra-short beta-blockade and nitroglycerine. Borowski A, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):51-4

Umbilical cord coagulation by operative microendoscopy at 16 weeks' gestation in an acardiac twin. Hecher K, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):130-2

Post-exercise response of ventricular ejection fraction after total repair of congenital heart disease with left to right shunt. Choe KO, et al. **Yonsei Med J** 1996 Feb;37(1):19-30

[Total and partial cavo-pulmonary anastomosis for univentricular hearts] Stenbøg EV, et al. **Ugeskr Laeger** 1997 Feb 10;159(7):946-51 (Eng. Abstr.) **(Dan)**

[Pulmonary valve replacement in children] Saro-Servando E, et al. **Ann Chir** 1996;50(8):703-6 (27 ref.) (Eng. Abstr.) **(Fre)**

[Acquired pulmonary vein stenosis after surgery of complex partial anomalous pulmonary venous drainage in an adult. Diagnostic value of transesophageal echocardiography] Bouffard P, et al. **Arch Mal Coeur Vaiss** 1997 Feb; 90(2):295-9 (Eng. Abstr.) **(Fre)**

[Medium-term results of non-invasive follow-up after cardiac transplantation in childhood and in adolescence] Di Filippo S, et al. **Arch Mal Coeur Vaiss** 1997 May; 90(5):617-23 (Eng. Abstr.) **(Fre)**

[Treatment of congenital heart diseases with pulmonary artery cerclage.Immediate and medium term results in 51 patients] Neville P, et al. **Arch Mal Coeur Vaiss** 1997 Mar; 90(3):371-7 (30 ref.) (Eng. Abstr.) **(Fre)**

[Aortic-ventricular tunnel with right coronary artery atresia] Rauzier JM, et al. **Arch Mal Coeur Vaiss** 1997 May; 90(5):725-7 (Eng. Abstr.) **(Fre)**

[Left ventricular assistance by postoperative mechanical devices in neonates] Robin J, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):661-5 (Eng. Abstr.) **(Fre)**

[Congenital heart diseases surgically treated in childhood. Long-term results] Lupoglazoff JM, et al. **Presse Med** 1996 Nov 30;25(37):1830-4 (13 ref.) (Eng. Abstr.) **(Fre)**

[Adults with congenital heart defects--clinical spectrum and surgical management] Berdjis F, et al. **Herz** 1996 Oct; 21(5):330-6 (Eng. Abstr.) **(Ger)**

[Cardiovascular surgery in Marfan syndrome. A review with case examples] Carrel T. **Schweiz Med Wochenschr** 1997 Jun 7;127(23):992-1006 (51 ref.) (Eng. Abstr.) **(Ger)**

[Surgery in congenital heart defects: current developments and a few case examples] Carrel T. **Schweiz Rundsch Med Prax** 1997 Apr 23;86(17):704-9 (Eng. Abstr.) **(Ger)**

[Should heart surgery be refused to children with trisomy 21? (editorial)] Günthard J. **Schweiz Rundsch Med Prax** 1997 Mar 25;86(13):499-501 **(Ger)**

[Pathogenesis of venous congestion symptoms after Fontan operation] Buchhorn R, et al. **Z Kardiol** 1997 Jan; 86(1):26-34 (Eng. Abstr.) **(Ger)**

[Congenital heart defects in adolescence and adulthood: fatalities and morbidity in primary and reoperation] Geissler HJ, et al. **Z Kardiol** 1996 Oct;85(10):782-9 (Eng. Abstr.) **(Ger)**

[Total cavopulmonary anastomosis for definitive palliation of complex univentricular cardiovascular systems--potential preoperative risk factors] Kaulitz R, et al. **Z Kardiol** 1997 Jan;86(1):20-5 (Eng. Abstr.) **(Ger)**

[Atrial flutter in young patients after corrective operation of congenital heart defects: therapy by high frequency catheter ablation] Paul T, et al. **Z Kardiol** 1996 Jan; 85(1):59-64 (Eng. Abstr.) **(Ger)**

[Intravascular stents for treatment of systemic venous obstructions] Schranz D, et al. **Z Kardiol** 1996 Jul; 85(7):477-81 (Eng. Abstr.) **(Ger)**

[Aortopulmonary window: influence of associated cardiovascular lesions on surgical management] Elami A, et al. **Harefuah** 1996 Jul;131(1-2):1-3, 72 (Eng. Abstr.) **(Heb)**

[Total cavo-pulmonary anastomosis in heart surgery for the correction of univentricular heart] Hartyánszky I, et al. **Orv Hetil** 1996 Dec 29;137(52):2923-5 (Eng. Abstr.) **(Hun)**

[Intraoperative epicardial echography in infancy and childhood for the evaluation of the results of surgical correction of congenital heart defects] Hartyánszky I, et al. **Orv Hetil** 1997 Mar 2;138(9):537-40 (Eng. Abstr.) **(Hun)**

[Intravascular stents in the treatment of congenital cardiopathy] Ballerini L, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):413-5 **(Ita)**

[Differential types of pulmonary flow in bidirectional cavo-pulmonary anastomosis with an additional flow source] Borini I, et al. **G Ital Cardiol** 1997 Jun;27(6):577-82 (Eng. Abstr.) **(Ita)**

[Classification of congenital heart diseases and surgical interventions in pediatric cardiology for the standardization of hospitalization records] Giuliano G, et al. **G Ital Cardiol** 1997 Jul;27(7):706-19 (Eng. Abstr.) **(Ita)**

[Ectopia cordis and Cantrell's pentalogy: personal experience and considerations on the surgical treatment] Pampaloni A, et al. **Pediatr Med Chir** 1997 Jan-Feb;19(1):59-64 (Eng. Abstr.) **(Ita)**

[Systemic-to-pulmonary artery shunt using the internal thoracic artery] Takahashi K, et al. **Kyobu Geka** 1996 Aug; 49(9):771-3 (Eng. Abstr.) **(Jpn)**

[Total cavopulmonary connection using a knitted dacron prosthesis impregnated with gelatin (GELSEAL) as an intracardiac conduit] Iwaya F, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):653-8 (Eng. Abstr.) **(Jpn)**

[Aprotinin reduces homologous blood transfusions when pediatric cardiac surgery must be redone] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):1980-5 (Eng. Abstr.) **(Jpn)**

[Long-term patency after the Blalock-Taussig operation--comparison between classic and modified shunts] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1108-13 (Eng. Abstr.) **(Jpn)**

[Open heart surgery with bloodless priming for cyanotic congenital heart diseases--the role of autologous blood donation after induction of anesthesia] Takahashi Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1075-81 (Eng. Abstr.) **(Jpn)**

[Progress of heart surgery for infants] Shiroya h. **Rinsho Kyobu Geka** 1988 Apr;8(2):109 **(Jpn)**

[Evaluation of the usefulness of magnetic resonance imaging

after correction of congenital heart disease in children--pilot experiment] Książyk J, et al. **Pediatr Pol** 1996 Mar;71(3):211-5 (Eng. Abstr.) **(Pol)**

[A coronary-right ventricular fistula of the heart] Zorin AB, et al. **Vestn Khir Im I I Grek** 1996;155(3):71-2 **(Rus)**

[Rashkind atrioseptostomia due to intraumbilical venous dissection. Letter] Gutiérrez-Larraya F, et al. **An Esp Pediatr** 1996 Oct;45(4):448-9 **(Spa)**

[Experience with Palmaz stent in pulmonary branch stenosis] Alcibar J, et al. **Rev Esp Cardiol** 1997 Mar;50(3):179-86 (Eng. Abstr.) **(Spa)**

[The role of the stent in non-coronary cardiopathies] Bermúdez-Cañete R, et al. **Rev Esp Cardiol** 1997;50 Suppl 2:69-82 (Eng. Abstr.) **(Spa)**

THERAPY

Management of adults with congenital heart disease: an increasing problem. Somerville J. **Annu Rev Med** 1997; 48:283-93 (9 ref.)

Dental attitudes, knowledge, and health practices of parents of children with congenital heart disease. Saunders CP, et al. **Arch Dis Child** 1997 Jun;76(6):539-40

Interventional cardiology. Walsh KP. **Arch Dis Child** 1997 Jan;76(1):6-8

Interventional cardiology for the adult patient with congenital heart disease: the Toronto Hospital experience. Harrison DA, et al. **Can J Cardiol** 1996 Oct;12(10):965-71 (31 ref.)

Balloon atrial septostomy using a new low-profile balloon catheter: initial clinical results. Hijazi ZM, et al. **Cathet Cardiovasc Diagn** 1997 Feb;40(2):187-90; discussion 191

A clinical observation of term infants with critical cardiovascular disorders. Lee BC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Aug;58(2):103-7

Interventional catheterization for congenital heart disease--limited "surgery" without the chest scar. Latson LA. **Clin Pediatr (Phila)** 1997 Mar;36(3):125-7

Extracorporeal membrane oxygenation and the treatment of critical pulmonary hypertension in congenital heart disease [letter; comment] Beghetti M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):796-7. Comment on: Eur J Cardiothorac Surg 1995;9(10):553-6.

Occlusion of persistent left superior vena cava to unroofed coronary sinus using vena cava filter and coils. Heng JT, et al. **Heart** 1997 Jun;77(6):579-80

Management of adults with congenital heart disease [editorial] Hunter S. **Heart** 1997 Jul;78(1):15

Pregnancy and congenital heart disease [editorial] Oakley CM. **Heart** 1997 Jul;78(1):12-4

Pulmonary balloon valvuloplasty in the palliation of complex cyanotic congenital heart disease. Stümper O, et al. **Heart** 1996 Oct;76(4):363-6

Percutaneous balloon dilatation of the atrial septum: immediate and midterm results. Thanopoulos BD, et al. **Heart** 1996 Dec;76(6):502-6

Noncoronary Cardiac Interventions. The first report of the Noncoronary Cardiac Interventions Registry of India, the Cardiological Society of India. Bahl VK, et al. **Indian Heart J** 1997 Jan-Feb;49(1):97-101

Reports from the Health Council of The Netherlands. Heart surgery and interventional cardiology for children. **Int J Technol Assess Health Care** 1996 Summer; 12(3):525-30

Treatment characteristics of congenital heart disease and behaviour problems of patients and healthy siblings. Janus M, et al. **J Paediatr Child Health** 1997 Jun;33(3):219-25

Use of extracorporeal life support in total anomalous pulmonary venous drainage. Stewart DL, et al. **J Perinatol** 1996 May-Jun;16(3 Pt 1):186-90

Congenital heart disease in adults--collaboration between pediatric and medical cardiologists. Dodo H, et al. **Jpn Circ J** 1996 Nov;60(11):895-7

Balloon atrial septostomy under two-dimensional echocardiographic control: a new outlook. Jamjureeruk V, et al. **Pediatr Cardiol** 1997 May-Jun;18(3):197-200

Percutaneous therapy of structural heart disease: pediatric disease. Verma R, et al. **Prog Cardiovasc Dis** 1997 Jul-Aug; 40(1):37-54 (70 ref.)

Cardiac development and perinatal care of infants with neural crest-associated conotruncal defects. Leatherbury L, et al. **Semin Perinatol** 1996 Dec;20(6):473-81 (38 ref.)

[Congenital coronary-cardiac fistula in children. Effects of surgical occlusion and percutaneous embolization] Aggoun Y, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):605-9 (Eng. Abstr.) **(Fre)**

[Value of detachable silicone balloon in the closure of coronary artery fistula. Apropos of 3 cases] Godart F, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):611-6 (28 ref.) (Eng. Abstr.) **(Fre)**

[Interventional cardiology in pediatrics] Pfammatter JP. **Schweiz Rundsch Med Prax** 1997 Apr 23;86(17):693-9 (35 ref.) (Eng. Abstr.) **(Ger)**

[Perinatal management of children with prenatal diagnosis of congenital heart defects] Hofbeck M, et al. **Z Geburtshilfe Neonatol** 1997 Mar-Apr;201(2):49-54 (Eng. Abstr.) **(Ger)**

[Management of heart failure in infants and children and infants in the 90s] Nir A, et al. **Harefuah** 1996 May 1; 130(9):626-9 (45 ref.) **(Heb)**

[Is psychoprophylaxis a valid approach for heart surgery in children?] Pereira Ruschel P, et al. **Arq Bras Cardiol** 1995 Oct;65(4):317-20 (Eng. Abstr.) **(Por)**

ULTRASONOGRAPHY

Dynamic three-dimensional display of common congenital cardiac defects from reconstruction of two-dimensional echocardiographic images. Hsieh KS, et al. **Acta Paediatr Sin** 1996 Jan-Feb;37(1):27-30

Sonographic detection of parallel great arteries in the fetus. Allan LD. **AJR Am J Roentgenol** 1997 May;168(5):1283-6

Total anomalous pulmonary venous connection to unroofed coronary sinus in patient with no symptoms. Banitt PF. **Am Heart J** 1996 Oct;132(4):886-8

Evolution of fetal ventricular aneurysms and diverticula of the heart: an echocardiographic study. Cavallé-Garrido T, et al. **Am J Perinatol** 1997 Aug;14(7):393-400

Fetal echocardiographic screening of diabetic pregnancies for congenital heart disease. Gladman G, et al. **Am J Perinatol** 1997 Feb;14(2):59-62

Recognition and management of obstructed pulmonary veins draining to the coronary sinus. DeLeon MM, et al. **Ann Thorac Surg** 1997 Mar;63(3):741-4; discussion 744-5

Outcome of fetuses with heart disease diagnosed in utero. Eronen M. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul; 77(1):F41-6

Double mitral valve orifice. Two-dimensional and Doppler echocardiographic diagnosis. Solorio S, et al. **Arch Med Res** 1996 Winter;27(4):491-4

Remnants of the right valve of the sinus venosus presenting as a right atrial mass on transthoracic echocardiography. Ducharme A, et al. **Can J Cardiol** 1997 Jun;13(6):573-6

Pulmonary intravascular ultrasound in infants and children with congenital heart disease. Day RW, et al. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):395-8

Evolution of echocardiographic findings in the fetus [editorial; comment] Allan LD. **Circulation** 1997 Jul 15; 96(2):391-2. Comment on: Circulation 1997 Jul 15;96(2):550-5.

Congenital heart defects: natural course and in utero development [see comments] Yagel S, et al. **Circulation** 1997 Jul 15;96(2):550-5. Comment in: Circulation 1997 Jul 15;96(2):391-2.

New developments in fetal echocardiography [see comments] Spevak PJ. **Curr Opin Cardiol** 1997 Jan;12(1):78-83 (19 ref.) . Comment in: Curr Opin Cardiol 1997 Jan;12(1):41-3.

Patient selection for repair of complete atrioventricular canal guided by echocardiography. Santoro G, et al. **Eur J Cardiothorac Surg** 1996;10(6):439-42

Prenatal diagnosis of major congenital cardiovascular malformations. Hsieh CC, et al. **Gynecol Obstet Invest** 1996; 42(2):84-7

Images in cardiology. Echocardiographic appearances of right ventricular dysplasia in the fetus. Benettoni A, et al. **Heart** 1997 Aug;78(2):200

Partial anomalous pulmonary venous connection: diagnosis by transesophageal echocardiography. Ammash NM, et al. **J Am Coll Cardiol** 1997 May;29(6):1351-8

Trends and outcomes after prenatal diagnosis of congenital cardiac malformations by fetal echocardiography in a well defined birth population, Atlanta, Georgia, 1990-1994. Montaña E, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1805-9

A systematic approach to echocardiographic image acquisition and three-dimensional reconstruction with a subxiphoid rotational scan. Bates JR, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):257-65

Transesophageal echocardiographic image of double-chambered right ventricle. Chang RY, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):347-52

Double-chambered right ventricle: echocardiographic features. Galiuto L, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):300-5

Echocardiographic considerations in demonstrating complex anatomy of criss-cross atrioventricular valves and discordant atrioventricular and ventriculoarterial relations. Morelli PJ, et al. **J Am Soc Echocardiogr** 1996 Sep-Oct; 9(5):727-9

Pediatric multiplane transesophageal echocardiography in congenital heart disease: new possibilities with a miniaturized probe. Sloth E, et al. **J Am Soc Echocardiogr** 1996 Sep-Oct;9(5):622-8

The 'sail sound' and tricuspid regurgitation in Ebstein's anomaly: the value of echocardiography in evaluating their mechanisms. Oki T, et al. **J Heart Valve Dis** 1997 Mar; 6(2):189-92

Parental reactions to fetal echocardiography. Björkhem G, et al. **J Matern Fetal Med** 1997 Mar-Apr;6(2):87-92

Routine fetal echocardiography and detection of congenital heart disease [letter; comment] Alembik Y, et al. **Lancet** 1996 Dec 21-28;348(9043):1732. Comment on: Lancet 1996 Sep 28;348(9031):854-7.

Routine fetal echocardiography and detection of congenital heart disease [letter; comment] Kingdom J, et al. **Lancet** 1996 Dec 21-28;348(9043):1732; discussion 1732-3 . Comment on: Lancet 1996 Sep 28;348(9031):854-7.

Routine prenatal screening for congenital heart disease [editorial; comment] [see comments] Kleinert S. **Lancet** 1996 Sep 28;348(9031):836. Comment on: Lancet 1996 Sep 28;348(9031):854-7. Comment in: Lancet 1997 Jan 4;349(9044):59.

Fetal echocardiography as a predictor of chromosomal abnormality [letter] Raymond FL, et al. **Lancet** 1997 Sep 27;350(9082):930

Effect of detailed fetal echocardiography as part of routine prenatal ultrasonographic screening on detection of congenital heart disease [see comments] Stümpflen I, et al. **Lancet** 1996 Sep 28;348(9031):854-7. Comment in: Lancet 1996 Sep 28;348(9031):836. Comment in: Lancet 1996 Dec 21-28;348(9043):1731-2; discussion 1732-3. Comment in: Lancet 1996 Dec 21-28;328(9043):1732. Comment in: Lancet 1996 Dec 21-28;348(9043):1732; discussion 1732-3.

Routine fetal echocardiography and detection of congenital heart disease [letter; comment] Thomas J. **Lancet** 1996 Dec 21-28;348(9043):1731-2; discussion 1732-3. Comment on: Lancet 1996 Sep 28;348(9031):854-7.

Instantaneous subaortic outflow obstruction after volume reduction in hearts with univentricular atrioventricular connection and discordant ventriculoarterial connection. van Son JA, et al. **Mayo Clin Proc** 1997 Apr;72(4):309-14

First trimester diagnosis of acardiac twins. Coulam CB. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):729

Sonographic screening to detect fetal cardiac anomalies: a 5-year experience with 111 abnormal cases. Kirk JS, et al. **Obstet Gynecol** 1997 Feb;89(2):227-32 (19 ref.)

Echocardiographic prediction of neonatal ECMO outcome. Gotteiner NL, et al. **Pediatr Cardiol** 1997 Jul-Aug; 18(4):270-5

High prevalence of interatrial communications during the first three months of life. Hansen LK, et al. **Pediatr Cardiol** 1997 Mar-Apr;18(2):83-5

On-line automated border detection for echocardiographic quantification of right ventricular size and function in children. Helbing WA, et al. **Pediatr Cardiol** 1997 Jul-Aug; 18(4):261-9

Dynamic three-dimensional echocardiographic reconstruction of congenital cardiac septation defects. Tantengco MV, et al. **Pediatr Cardiol** 1997 May-Jun; 18(3):184-90

Doppler echocardiography of normal and abnormal embryonic mouse heart. Gui YH, et al. **Pediatr Res** 1996 Oct;40(4):633-42

Prenatal diagnosis of a fetal ventricular diverticulum associated with pericardial effusion: successful outcome following pericardiocentesis. Johnson JA, et al. **Prenat Diagn** 1996 Oct;16(10):954-7

Fetal ultrasonography in maternal PKU. Levy HL, et al. **Prenat Diagn** 1996 Jul;16(7):599-604

Ultrasonography of fetal heart failure in early gestation. Zimmer EZ, et al. **Prenat Diagn** 1997 May;17(5):461-5

Intraoperative transesophageal echocardiography in congenital heart surgery. The Texas Children's Hospital experience. Bezold LI, et al. **Tex Heart Inst J** 1996; 23(2):108-15

Prenatal diagnosis of ventriculocoronary arterial communications combined with pulmonary atresia [letter; comment] Arabin B, et al. **Ultrasound Obstet Gynecol** 1996 Jun;7(6):461-2. Comment on: Ultrasound Obstet Gynecol 1996 Jan;7(1):5-9. Comment on: Ultrasound Obstet Gynecol 1996 Jan;7(1):10-6.

Abnormal fetal cardiac axis in the detection of intrathoracic anomalies and congenital heart disease. Crane JM, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):90-3

Abnormal pulmonary venous return diagnosed prenatally by pulsed Doppler flow imaging. Feller Printz B, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):347-9

Prenatal diagnosis of ectopia cordis at 10 weeks of gestation using two-dimensional and three-dimensional ultrasonography. Liang RI, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):137-9 (10 ref.)

Ductus arteriosus-dependent pulmonary circulation secondary to cardiac malformations in fetal life. Mielke G, et al. **Ultrasound Obstet Gynecol** 1997 Jan;9(1):25-9

Conotruncal anomalies in prenatal life. Paladini D, et al. **Ultrasound Obstet Gynecol** 1996 Oct;8(4):241-6

The significance of echogenic foci in the fetal heart: a prospective study of 228 cases. Simpson JM, et al. **Ultrasound Obstet Gynecol** 1996 Oct;8(4):225-8

[The clinical value of fetal congenital heart disease diagnosed by color Doppler echocardiography] Zhou Q, et al. **Chung Hua Fu Chan Ko Tsa Chih** 1996 Aug;31(8):474-6 (Eng. Abstr.) **(Chi)**

[Prenatal cardiology--current problems and the future] Homola J. **Ceska Gynekol** 1996 Aug;61(4):207-10 (Eng. Abstr.) **(Cze)**

[Dynamic 3-dimensional reconstruction of the heart using multiplanar transesophageal echocardiography] Hofmann T, et al. **Herz** 1997 Jun;22(3):176-8 (8 ref.) **(Ger)**

[Successful multi-step management of developmental heart defects after intrauterine diagnosis] Hartyánszky I, et al. **Orv Hetil** 1997 Mar 23;138(12):745-8 (Eng. Abstr.) **(Hun)**

[Tridimensional echocardiography: general principles and clinical applications (with special reference to congenital heart diseases)] Vitarelli A. **Minerva Cardioangiol** 1996 Nov;44(11):545-54 (Eng. Abstr.) **(Ita)**

VETERINARY

Retrospective study of congenital heart defects in 151 dogs. Tidholm A. **J Small Anim Pract** 1997 Mar;38(3):94-8

Coronary arterioventricular anomaly in a calf. Bildfell RJ, et al. **J Vet Diagn Invest** 1996 Oct;8(4):500-2

Multiple congenital cardiac anomalies and idiopathic thoracic aortitis in a horse. Reppas GP, et al. **Vet Rec** 1996 Jan 6;138(1):14-6

[Hypoplasia of the left heart ventricle--casuistic contribution

to the development of this heart malformation] Thiel W. **DTW Dtsch Tierarztl Wochenschr** 1997 Apr;104(4):127–31 (Eng. Abstr.) **(Ger)**

VIROLOGY

Congenital cardiomyopathy associated with human parvovirus B19 infection. Barton LL, et al. **Am Heart J** 1997 Jan;133(1):131–3

HEART DISEASE, ISCHEMIC see **MYOCARDIAL ISCHEMIA**

HEART DISEASES

see related

NEUROCIRCULATORY ASTHENIA

Regional anesthesia for the pregnant cardiac patient. Mitterschiffthaler G. **Acta Anaesthesiol Scand Suppl** 1996; 109:180–4

Surgical patients with heart disease: summary of the ACC/AHA guidelines. American College of Cardiology/American Heart Association. Eagle KA. **Am Fam Physician** 1997 Sep 1;56(3):811–8 (68 ref.)

AHA Science Advisory. Alcohol and heart disease. Nutrition Committee of the American Heart Association. Pearson TA. **Am J Clin Nutr** 1997 May;65(5):1567–9

Pregnancy-related acute coronary syndromes and maternal mortality [letter; comment] Jessurun GA, et al. **Angiology** 1996 Dec;47(12):1187. Comment on: Angiology 1996 Aug;47(8):739–56.

Assessment of the cardiac patient for fitness to drive: 1996 update. **Can J Cardiol** 1996 Nov;12(11):1164–70, 1175–82 **(Eng, Fre)**

Evaluation of the Heart and Stroke Foundation of Canada Research Scholarship Program: research productivity and impact. Armstrong PW, et al. **Can J Cardiol** 1997 May; 13(5):507–16

Blood cyst with a calcium stone originating from the right atrial septum. Niinami H, et al. **Cardiovasc Surg** 1996 Apr; 4(2):260–2

Bibliography current world literature. **Coron Artery Dis** 1996 Dec;7(12):935–8

Pediatrics. **Curr Opin Cardiol** 1997 Jan;12(1):B25–43

Cardiomyopathies and inflammatory disorders. **Curr Opin Cardiol** 1996 May;11(3):B81–91

Ectopic thyroid malignancy in the right ventricle of the heart. Hirnle T, et al. **Eur J Cardiothorac Surg** 1997 Jul; 12(1):147–9

Racial differences in performance of invasive cardiac procedures in a Department of Veterans Affairs Medical Center. Sedlis SP, et al. **J Clin Epidemiol** 1997 Aug; 50(8):899–901

Some contributions from the social system to gender inequalities in heart disease [published erratum appears in J Health Soc Behav 1996 Jun;37(2):preceding 121] McKinlay JB. **J Health Soc Behav** 1996 Mar;37(1):1–26 (102 ref.)

The in vivo quantification of myocardial performance in rabbits: a model for evaluation of cardiac gene therapy. Silvestry SC, et al. **J Mol Cell Cardiol** 1996 May; 28(5):815–23

Dying from heart disease. McCarthy M, et al. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):325–8

A home electrocardiography and blood pressure telemonitoring system. Bai J, et al. **J Telemed Telecare** 1997; 3 Suppl 1:1–2

Calcified pedicled thrombus in the left ventricle: the fine art of nature. Morales C, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):491–2

Dilated cardiomyopathy in turkeys: an animal model for the study of human heart failure. Genao A, et al. **Lab Anim Sci** 1996 Aug;46(4):399–404

North American Society of Pacing and Electrophysiology 17th annual scientific sessions. Seattle, Washington, May 15–18, 1996. Abstracts. **Pacing Clin Electrophysiol** 1996 Apr;19(4 Pt 2):527–745

Cumulative index volumes 1–19, 1978–1996. **Pacing Clin Electrophysiol** 1996 Dec;19(12 Pt 2):2179–296

The effects of alcohol on the heart: detrimental or beneficial? Figueredo VM. **Postgrad Med** 1997 Feb;101(2):165–8, 171–2, 175–6 (24 ref.)

Cardiopulmonary manifestations of schistosomiasis. Morris W, et al. **Semin Respir Infect** 1997 Jun;12(2):159–70 (89 ref.)

[45th meeting of the American College of Cardiology. Orlando, 24–27 March 1996] **Dtsch Med Wochenschr** 1996 Apr 26;121(17 Suppl):1–4 **(Ger)**

[Intracardiac thrombus] Sato Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):538–42 (27 ref.) **(Jpn)**

[Contraceptive use in women with heart disease] Avila WS, et al. **Arq Bras Cardiol** 1996 Apr;66(4):205–11 (Eng. Abstr.) **(Por)**

[Research methods in cardiology] Gabriel Sánchez R, et al. **Rev Esp Cardiol** 1996 Nov;49(11):835–6 **(Spa)**

[Research methods in clinical cardiology (I). Types of basic designs. Observational studies in clinical cardiology (I)] Gabriel Sánchez R, et al. **Rev Esp Cardiol** 1996 Nov; 49(11):837–51 (Eng. Abstr.) **(Spa)**

BLOOD

Serum ferritin and heart disease: the effect of moderate exercise on stored iron levels in postmenopausal women. Naimark BJ, et al. **Can J Cardiol** 1996 Dec;12(12):1253–7 (30 ref.)

Bedside determination of cardiac troponin T [letter; comment] Renard M. **Circulation** 1996 Nov 1;94(9):2313–4 . Comment on: Circulation 1995 Nov 15;92(10):2869–75.

Cardiac natriuretic peptides as predictors of mortality [editorial; comment] Lainchbury JG, et al. **J Intern Med** 1997 Apr;241(4):257–9 (31 ref.). Comment on: J Intern Med 1997 Apr;241(4):261–8. Comment on: J Intern Med 1997 Apr;241(4):269–75.

Atrial natriuretic peptides predict mortality in the elderly [see comments] Wallén T, et al. **J Intern Med** 1997 Apr; 241(4):269–75. Comment in: J Intern Med 1997 Apr;241(4):257–9.

Cardiac troponin I in pediatrics: normal values and potential use in the assessment of cardiac injury [see comments] Hirsch R, et al. **J Pediatr** 1997 Jun;130(6):872–7. Comment in: J Pediatr 1997 Jun;130(6):853–5.

[Influence of cardiac or respiratory pathology in the gasometric evolution during laparoscopic cholecystectomy] Vila C, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):310–3 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Anthracycline-induced cardiotoxicity in children with malignancies. Godoy LY, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):188–93

The role of radionuclide angiocardiography in the treatment of patients receiving doxorubicin-based chemotherapy: a reassessment. Dreicer R, et al. **Am J Clin Oncol** 1997 Apr; 20(2):132–7

Anthracycline-induced cardiotoxicity [letter; comment] Steinherz LJ. **Ann Intern Med** 1997 May 15;126(10):827; discussion 827–8. Comment on: Ann Intern Med 1996 Jul 1;125(1):47–58.

Cardiomyopathy associated with clozapine. Leo RJ, et al. **Ann Pharmacother** 1996 Jun;30(6):603–5

X-ray crystal structure of the antimalarial agent (–)-halofantrine hydrochloride supports stereospecificity for cardiotoxicity. Karle JM. **Antimicrob Agents Chemother** 1997 Apr;41(4):791–4

Cardiotoxic and drug interaction profile of the second generation antihistamines ebastine and terfenadine in an experimental animal model of torsade de pointes [see comments] Hey JA, et al. **Arzneimittelforschung** 1996 Feb; 46(2):159–63. Comment in: Arzneimittelforschung 1996 Aug;46(8):832–3.

Comparative analysis of the cardiotoxicity proclivities of second generation antihistamines in an experimental model predictive of adverse clinical ECG effects [see comments] Hey JA, et al. **Arzneimittelforschung** 1996 Feb;46(2):153–8 . Comment in: Arzneimittelforschung 1996 Aug;46(8):832–3.

Evaluation of cardiac subacute toxicity of epirubicin, chlorambucil, cisplatin, methotrexate and a homo-aza-steroid ester with antitumor activity in rats using serum biochemical parameters. Pispirigos K, et al. **Arzneimittelforschung** 1997 Jan;47(1):92–6

Cardiotoxicity of emetine dihydrochloride by calcium channel blockade in isolated preparations and ventricular myocytes of guinea-pig hearts. Lemmens-Gruber R, et al. **Br J Pharmacol** 1996 Jan;117(2):377–83

A risk-benefit assessment of anthracycline antibiotics in antineoplastic therapy. Abraham R, et al. **Drug Saf** 1996 Dec;15(6):406–29 (208 ref.)

Cardiac manifestations of acute carbamate and organophosphate poisoning. Saadeh AM, et al. **Heart** 1997 May;77(5):461–4

Minimal cardiac effects in asymptomatic athyreotic patients chronically treated with thyrotropin-suppressive doses of L-thyroxine. Shapiro LE, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2592–5

Multicenter randomized controlled clinical trial to evaluate cardioprotection of dexrazoxane versus no cardioprotection in women receiving epirubicin chemotherapy for advanced breast cancer. Venturini M, et al. **J Clin Oncol** 1996 Dec; 14(12):3112–20

Serum troponin T levels in adults undergoing anthracycline therapy [letter] Raderer M, et al. **J Natl Cancer Inst** 1997 Jan 15;89(2):171

An estimate of the upper limit for the rate of adverse cardiac effects in children treated with growth hormone. Bienkowski RS. **J Pediatr Endocrinol Metab** 1995 Oct-Dec; 8(4):309

Dexrazoxane (ICRF-187): a cardioprotective agent during anthracycline chemotherapy. O'Marcaigh AS, et al. **J Pediatr Oncol Nurs** 1997 Apr;14(2):96–8 (11 ref.)

Toxicodynamic analysis of cardiac effects induced by four cholinesterase inhibitors in rats. Yamamoto K, et al. **J Pharm Pharmacol** 1996 Sep;48(9):935–9

Cocaine-associated heart disease. Baugh JK. **J S C Med Assoc** 1996 Sep;92(9):389–92 (14 ref.)

5-fluorouracil induced cardiotoxicity in albino rats. Kumar S, et al. **Mater Med Pol** 1995 Apr-Jun;27(2):63–6

Cardiotoxic properties of cocaine: studies with positron emission tomography. Volkow ND, et al. **NIDA Res Monogr** 1996;163:159–74

Pretreatment with ischaemia attenuates acute epirubicin-induced cardiotoxicity in isolated rat hearts. Schjøtt J, et al. **Pharmacol Toxicol** 1996 Jun;78(6):381–6

Symptomatic cardiotoxicity associated with 5-fluorouracil. Meyer CC, et al. **Pharmacotherapy** 1997 Jul–Aug; 17(4):729–36

Perfusing isolated rat hearts with hydrogen peroxide: an experimental model of cardiac dysfunction caused by reactive oxygen species. Skjelbakken T, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):431–9

[Cardiac poisoning of cisapride (Prepulsid) must be considered in its prescription, specially in premature infants (editorial)] Autret E, et al. **Arch Pediatr** 1997 Jun;4(6):507–8 **(Fre)**

[A case of acute nimodipine poisoning. Cardiac and vascular effects] De Sio A, et al. **Minerva Anestesiol** 1995 Jul–Aug; 61(7–8):335–8 (Eng. Abstr.) **(Ita)**

COMPLICATIONS

Specific cardiological evaluation after focal cerebral ischemia. Hornig CR, et al. **Acta Neurol Scand** 1996 Apr; 93(4):297–302

Heart disease in Friedreich's ataxia: a clinical and echocardiographic study. Günal N, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):308–11

Neurocardiogenic syncope. Somers VK, et al. **Adv Intern Med** 1996;41:399–435 (109 ref.)

Prevalence and prognostic significance of right-sided cardiac mobile thrombi in acute massive pulmonary embolism. Casazza F, et al. **Am J Cardiol** 1997 May 15;79(10):1433–5

Clinical significance of fossa ovalis membrane aneurysm in adults with cardioembolic cerebral ischemia. Ilercil A, et al. **Am J Cardiol** 1997 Jul 1;80(1):96–8

Clinical, electrocardiographic, and echocardiographic features in patients with asymptomatic aortic abdominal aneurysm. Bolognesi R, et al. **Angiology** 1996 Dec; 47(12):1139–44

Oral propafenone to convert recent-onset atrial fibrillation in patients with and without underlying heart disease. A randomized, controlled trial. Boriani G, et al. **Ann Intern Med** 1997 Apr 15;126(8):621–5

Aortic valve replacement in a patient with cardiac amyloidosis [letter] Terada Y, et al. **Ann Thorac Surg** 1996 Nov;62(5):1571–2

Glucose control lowers the risk of wound infection in diabetics after open heart operations. Zerr KJ, et al. **Ann Thorac Surg** 1997 Feb;63(2):356–61

Aorto-left atrial fistula. A reversible cause of acute refractory heart failure. Archer TP, et al. **Chest** 1997 Mar; 111(3):828–31 (17 ref.)

Usefulness of electron-beam computed tomography in arrhythmogenic right ventricular dysplasia. Relationship to electrophysiological abnormalities and left ventricular involvement. Tada H, et al. **Circulation** 1996 Aug 1; 94(3):437–44

Circadian patterns in the onset of cardiogenic acute pulmonary edema. Buff DD, et al. **Clin Cardiol** 1997 Mar; 20(3):261–4

Association between psychiatric disorders and Marfan's syndrome in a large Sardinian family with a high prevalence of cardiac abnormalities. Mercuro G, et al. **Clin Cardiol** 1997 Mar;20(3):243–5

Cardiac disease & stroke: innocent bystander or cause & effect? Ekery DL, et al. **Compr Ther** 1997 Apr;23(4):281–8 (53 ref.)

Cardiovascular manifestations of HIV infection. Epstein JE, et al. **Compr Ther** 1996 Aug;22(8):485–91 (45 ref.)

Independent double sided cardiac thrombosis causing simultaneous systemic and pulmonary embolism [letter] Missault L, et al. **Eur Heart J** 1997 Mar;18(3):525

Retiring the pacemaker. Reitemeier PJ, et al. **Hastings Cent Rep** 1997 Jan-Feb;27(1):24; discussion 24–6

Case in point. Acute regurgitation due to ruptured mitral chordae tendineae. Ansari A, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):236

Pathophysiologic substrate for ventricular tachycardia in coronary artery disease and non-ischemic heart disease. Josephson ME, et al. **Isr J Med Sci** 1996 Oct;32(10):875–9 (17 ref.)

HIV and the heart. Sankaran JR. **J Assoc Physicians India** 1996 Nov;44(11):815–9

No change in ST segment during instillation of eyedrops of ophthalmic surgery: a study in elderly patients with heart disease (is present software/technology sufficiently sensitive)? Botz GH, et al. **J Clin Anesth** 1996 Dec; 8(8):631–3

Hemodynamic changes during laparoscopic cholecystectomy in patients with severe cardiac disease. Hein HA, et al. **J Clin Anesth** 1997 Jun;9(4):261–5

Cardiac abnormalities in patients with primary hyperparathyroidism: implications for follow-up. Stefenelli T, et al. **J Clin Endocrinol Metab** 1997 Jan;82(1):106–12

Alzheimer's disease, blood lipids, and heart disease: what are the interrelationships? [comment] Luft FC. **J Mol Med** 1997 Feb;75(2):73–4. Comment on: J Mol Med 1997 Feb;75(2):130–8.

Thromboembolism and resistance to activated protein C in children with underlying cardiac disease. Kohlhase B, et al. **J Pediatr** 1996 Nov;129(5):677–9

Cardiac constipation. Fried DA, et al. **J S C Med Assoc** 1997 Jun;93(6):221–2

Cardiac involvement in HIV infection. Patel RC, et al.

Med Clin North Am 1996 Nov;80(6):1493–512 (152 ref.)
Restrictive cardiomyopathy [letter; comment] Reisinger J, et al. **N Engl J Med** 1997 Jun 26;336(26):1917; discussion 1917–8. Comment on: N Engl J Med 1997 Jan 23;336(4):267–76.
Negative-pressure pulmonary edema in the otolaryngology patient. Goldenberg JD, et al.
Otolaryngol Head Neck Surg 1997 Jul;117(1):62–6 (21 ref.)
Influence of cardiopulmonary disease on resolution of pulmonary embolism. A mathematical model to predict remaining defects at six months. Menéndez R, et al.
Respiration 1996;63(5):267–71
Cardiac disease during pregnancy--a Free State perspective on maternal morbidity and mortality. Schoon MG, et al. **S Afr Med J** 1997 Feb;87 Suppl 1:C19–22
Sarcoidosis presenting as heart disease. Nelson JE, et al.
Sarcoidosis Vasc Diffuse Lung Dis 1996 Sep;13(2):178–82 (48 ref.)
The safety of helium for abdominal insufflation. Fleming RY, et al. **Surg Endosc** 1997 Mar;11(3):230–4
Trapped thrombus in a patent foramen ovale. Falk V, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):90–2
[Cardiological aspects of arterial hypertension (editorial)] Bloch A. **Schweiz Rundsch Med Prax** 1997 Jan 7; 86(1–2):1–2 **(Fre)**
[Treatment with a beta blocker and digitalis] Böhm M.
Anaesthesist 1996 Sep;45(9):868 **(Ger)**
[Sudden death caused by an arterial hydatid embolism] Keil W, et al. **Dtsch Med Wochenschr** 1997 Mar 7;122(10):293–6 (Eng. Abstr.) **(Ger)**
[Preoperative management-cardiac, pulmonary, and renal dysfunction] Murata A, et al.
Nippon Geka Gakkai Zasshi 1996 Jun;97(6):398–403 (4 ref.) (Eng. Abstr.) **(Jpn)**
[Cardiogenic brain embolism] Akatsuka Y, et al.
Ryoikibetsu Shokogun Shirizu 1996;(15):547–50 (19 ref.) **(Jpn)**
[Syncope as a cardiologic problem] Bacior B, et al.
Przegl Lek 1996;53(6):509–13 (23 ref.) (Eng. Abstr.) **(Pol)**
[QT dispersion] Bańcarz A, et al. **Przegl Lek** 1996;53(9):687–9 (18 ref.) (Eng. Abstr.) **(Pol)**
[The treatment of mediastinitis after heart operations] Ostrovskil IuP, et al. **Vestn Khir Im I I Grek** 1996; 155(3):65–6 **(Rus)**
[Mobile thrombus in the right atrium and pulmonary embolism: efficacy of thrombolytic treatment with alteplase (letter)] López-Haldón JE, et al. **Med Clin (Barc)** 1997 Feb 8;108(5):198 **(Spa)**

CONGENITAL see HEART DEFECTS, CONGENITAL

DIAGNOSIS

The effect of clinical history on physicians' ECG interpretation skills. Hatala RA, et al. **Acad Med** 1996 Oct; 71(10 Suppl):S68–70
Complete left bundle branch block with left QRS axis deviation: defining its clinical importance. Parharidis G, et al. **Acta Cardiol** 1997;52(3):295–303
Impact of hemodialysis on comprehensive ventricular repolarization. Tuncer C, et al. **Acta Cardiol** 1997; 52(3):305–12
Clinical and echocardiographic evaluation of neonates with heart murmurs. Du ZD, et al. **Acta Paediatr** 1997 Jul; 86(7):752–6
Cardiac disease in chronic uremia: investigation. Nally JV Jr. **Adv Ren Replace Ther** 1997 Jul;4(3):225–33 (49 ref.)
Effect of informed consent on anxiety in patients undergoing diagnostic electrophysiology studies. Goldberger JJ, et al. **Am Heart J** 1997 Jul;134(1):119–26
Anomalous origin of the left main coronary artery from the pulmonary trunk masquerading as peripartum cardiomyopathy. Daniels C, et al. **Am J Cardiol** 1997 May 1;79(9):1307–8
Saphenous vein graft aneurysm presenting as a large mediastinal mass compressing the right atrium. Ferreira AC, et al. **Am J Cardiol** 1997 Mar 1;79(5):706–7
An echocardiographic study comparing male Swedish elite orienteers with other elite endurance athletes. Henriksen E, et al. **Am J Cardiol** 1997 Feb 15;79(4):521–4
Comparison of quantitation of left ventricular volume, ejection fraction, and cardiac output in patients with atrial fibrillation by cine magnetic resonance imaging versus invasive measurements. Hundley WG, et al.
Am J Cardiol 1996 Nov 15;78(10):1119–23
An alternate limb lead system for electrocardiograms in emergency patients [letter] Wiens RD, et al.
Am J Emerg Med 1997 Jan;15(1):94–5
DIAVAL, a Bayesian expert system for echocardiography. Díez FJ, et al. **Artif Intell Med** 1997 May;10(1):59–73
Temporal reasoning for diagnosis in a causal probabilistic knowledge base. Long W. **Artif Intell Med** 1996 Jul; 8(3):193–215
Reasoning requirements for diagnosis of heart disease. Long WJ, et al. **Artif Intell Med** 1997 May;10(1):5–24
Magnetic resonance imaging applications to cardiac diagnosis. Colletti PM, et al. **Biomed Instrum Technol** 1996 Jul–Aug;30(4):354–8 (14 ref.)
Radiation exposure to children during cardiac catheterization. Boothroyd A, et al. **Br J Radiol** 1997 Feb; 70:180–5
The independent medical examination: cardiology assessment [see comments] Cumming GR. **Can J Cardiol** 1996 Dec; 12(12):1245–52. Comment in: Can J Cardiol 1997 May;13(5):443. Comment in: Can J Cardiol 1997 May;13(5):443; discussion 443, 445.
Prolonged survival after massive pulmonary embolism in a patient with atrial septal defect and mass in the right ventricle. Tak T, et al. **Can J Cardiol** 1997 Feb; 13(2):199–202 (4 ref.)
A new cardiology patient simulator. Takashina T, et al.
Cardiology 1997 Sep–Oct;88(5):408–13
Can we defend the bill of rights? [editorial; comment] Kahn JK. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):131. Comment on: Cathet Cardiovasc Diagn 1996 Feb;37(2):125–30.
Survivors of out-of-hospital cardiac arrest with apparently normal heart. Need for definition and standardized clinical evaluation. Consensus Statement of the Joint Steering Committees of the Unexplained Cardiac Arrest Registry of Europe and of the Idiopathic Ventricular Fibrillation Registry of the United States. **Circulation** 1997 Jan 7; 95(1):265–72 (100 ref.)
Perioperative cardiovascular evaluation for noncardiac surgery: congenital heart diseases and heart diseases in pregnancy deserve better guidelines [letter; comment] Weiss BM, et al. **Circulation** 1997 Jan 21;95(2):530–1. Comment on: Circulation 1996 Mar 15;93(6):1278–317.
Nonsecretory immunoglobulin-derived amyloidosis of the heart: diagnosis by immunohistochemistry of the endomyocardium. Chau EM, et al. **Clin Cardiol** 1997 May; 20(5):494–6
Abnormalities of the S-T segment--Part I. Hurst JW.
Clin Cardiol 1997 Jun;20(6):511–20 (10 ref.)
The appearance of gallop rhythm after exercise stress testing. Tavel ME. **Clin Cardiol** 1996 Nov;19(11):887–91
Imaging and echocardiography. **Curr Opin Cardiol** 1996 Nov; 11(6):B166–85
Imaging and echocardiography [editorial; comment] Verani MS. **Curr Opin Cardiol** 1996 Nov;11(6):611–2. Comment on: Curr Opin Cardiol 1996 Nov;11(6):613–20. Comment on: Curr Opin Cardiol 1996 Nov;11(6):621–6. Comment on: Curr Opin Cardiol 1996 Nov;11(6):627–34. Comment on: Curr Opin Cardiol 1996 Nov;11(6):635–42.
Cardiology. Jones J, et al. **Emerg Med Clin North Am** 1997 May;15(2):341–63 (65 ref.)
Biventricular thrombus mimicking eosinophilic endomyocardial disease [letter] Koh TW, et al.
Eur Heart J 1996 Nov;17(11):1770–1
Diastolic dysfunction and ANP/BNP levels [editorial; comment] Struthers AD. **Eur Heart J** 1996 Nov; 17(11):1617–8. Comment on: Eur Heart J 1996 Nov;17(11):1694–702.
Do magnetic resonance techniques contribute to the management of clinical problems? van der Wall EE.
Eur Heart J 1996 May;17(5):666–73 (25 ref.)
Magnetic resonance imaging of cardiac and pericardial disease. Croisille P, et al. **J Belge Radiol** 1997 Jun; 80(3):133–6 (15 ref.)
Predicting risk of embolization during anticoagulation for left atrial thrombus by transesophageal echocardiography: a case report. Misumi I, et al. **J Cardiol** 1996 Aug;28(2):93–7
Timed walking tests of exercise capacity in chronic cardiopulmonary illness. Steele B. **J Cardiopulm Rehabil** 1996 Jan–Feb;16(1):25–33 (49 ref.)
Coronary artery calcification at CT as a predictor for cardiac complications of thoracic surgery. Roth BJ, et al.
J Comput Assist Tomogr 1997 Jul–Aug;21(4):619–22
An improved computer method to prepare 3D magnetic resonance images of thoracic structures. Uokawa K, et al. **J Digit Imaging** 1997 May;10(2):85–95
ECG of the month. "Watts" up, doc? Artificial cardiac pacemaker. Martinez-Lopez JI. **J La State Med Soc** 1996 Oct;148(10):409–11
Arterial ketone body ratio as a prognostic indicator in acute heart failure. Takahashi M, et al. **J Lab Clin Med** 1997 Jan;129(1):72–80
Secondary multiple intracranial hydatid cysts caused by intracerebral embolism of cardiac echinococcosis: an exceptional case of hydatidosis. Case report. Turgut M, et al. **J Neurosurg** 1997 Apr;86(4):714–8
Army Cardiac Unit — cardiac catheter patients, 1991--a review. Kiltie AE, et al. **J R Army Med Corps** 1994 Jun; 140(2):79–85
Is preoperative cardiac evaluation for abdominal aortic aneurysm repair necessary? D'Angelo AJ, et al.
J Vasc Surg 1997 Jan;25(1):152–6
Cardiac hormones: diagnostic and therapeutic potential. Lainchbury JG, et al. **N Z Med J** 1997 Jun 27; 110(1046):219–21 (34 ref.)
Immediate and short-term reproducibility of the P wave signal-averaged electrocardiogram. Ehlert FA, et al.
Pacing Clin Electrophysiol 1997 Jun;20(6):1636–45
Just tell me what I need to know [editorial] Altemeier WA 3rd. **Pediatr Ann** 1997 Feb;26(2):74–6
Diagnostic imaging in pediatric AIDS. Haller JO, et al.
Pediatr Clin North Am 1997 Jun;44(3):721–40 (64 ref.)
Web interface for the Heart Disease Program. Long WJ, et al. **Proc AMIA Annu Fall Symp** 1996;:762–6
Is CK-MB isoenzyme useful for diagnosis of cardiac involvement in icteric leptospirosis? Machado ES, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep–Oct;37(5):461–5
False left ventricular aneurysm with ventriculo-bronchial fistula and massive haemoptysis. Camero LG, et al.
Scand Cardiovasc J 1997;31(2):117–9
[Right coronary-ventricular fistula. Diagnosis and course. Apropos of 2 cases] Kammoun S, et al.
Ann Cardiol Angeiol (Paris) 1997 Jan;46(1):33–7 (25 ref.) (Eng. Abstr.) **(Fre)**
[Right retroauricular hematoma of late manifestation. Contribution of cardiac imaging] Meurin P, et al.
Ann Cardiol Angeiol (Paris) 1996 Nov;45(9):503–6 (11 ref.) (Eng. Abstr.) **(Fre)**
[Pericardium--radiologic diagnosis] Kopsa W, et al.
Radiologe 1997 May;37(5):378–87 (28 ref.) (Eng. Abstr.) **(Ger)**
[Cardiac risk assessment for athletic training] Hoffmann A. **Schweiz Rundsch Med Prax** 1996 Sep 24;85(39):1193–6 (Eng. Abstr.) **(Ger)**
[Rational cardiologic diagnosis after cerebral ischemic event] Pölzl G, et al. **Wien Klin Wochenschr** 1997 May 23; 109(10):366–72 (Eng. Abstr.) **(Ger)**
[Computerized assessment of electric heart signals and cardiovascular images] De Biase L, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):491–9 (34 ref.) **(Ita)**
[Echocardiography versus cardiac catheterization for surgical indications in the era of DRG: cost-benefit analysis] Di Liso G, et al. **G Ital Cardiol** 1996 Sep; 26(9):1049–53 **(Ita)**
[Diagnostic possibilities and limitations of the necropsy examination on cadavers exhumed because of sudden cardiac death] Bacci M, et al. **Pathologica** 1996 Feb; 88(1):25–8 (Eng. Abstr.) **(Ita)**
[Automatic analysis of the electrocardiogram as a possibility for cardiological screening in the military area] Fronzaroli F. **Riv Med Aeronaut Spaz** 1975 Jan–Mar;38(1):111–20 **(Ita)**
[Ambulatory ekg monitoring--development and clinical use of Holter's method (editorial)] Zaręba W. **Pol Tyg Lek** 1996 Mar;51(10–13):127–30 **(Pol)**
[Diagnosis in pediatric cardiology. Clinical elements aren't obsolete] Amaral F. **Arq Bras Cardiol** 1996 Jul;67(1):35–7 **(Por)**
[High-resolution ECG in the diagnosis of cardiac electrical instability and the prognosis of sudden death] Ivanov GG, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):31–7 (53 ref.) **(Rus)**
[Methods of investigation in clinical cardiology. X. Studies on the evaluation of diagnostic tests in cardiology] Cabello López JB, et al. **Rev Esp Cardiol** 1997 Jul;50(7):507–19 (49 ref.) (Eng. Abstr.) **(Spa)**
[Investigation methods in clinical cardiology. IV. Clinical measurements in cardiology: validity and errors of measurements] Latour J, et al. **Rev Esp Cardiol** 1997 Feb; 50(2):117–28 (Eng. Abstr.) **(Spa)**

DIET THERAPY

The diet-heart disease hypothesis: a response to Atrens [comment] Rieger E. **Soc Sci Med** 1996 May;42(9):1227–33 (39 ref.). Comment on: Soc Sci Med 1994 Aug;39(3):433–47.

DRUG THERAPY

Thyroid hormone and the heart [editorial; comment] Klein I, et al. **Am J Med** 1996 Nov;101(5):459–60. Comment on: Am J Med 1996 Nov;101(5):461–7.
Unnecessary thrombolysis [letter; comment] Fesmire FM.
Ann Emerg Med 1997 Apr;29(4):553–4. Comment on: Ann Emerg Med 1996 Sep;28(3):289–93.
Report from the 46th annual scientific session of the American College of Cardiology, Anaheim, California, 16–19 March 1997 [see comments] Wroe CD.
Br J Clin Pract 1997 Apr–May;51(3):157–9. Comment in: Br J Clin Pract 1997 Apr–May;51(3):131–2.
Calcium antagonists are here to stay--in my opinion! [editorial] Conti CR. **Clin Cardiol** 1996 Jul;19(7):529–30
Primary prevention of heart disease and stroke: a simplified approach to estimating risk of events and making drug treatment decisions. McCormack JP, et al. **CMAJ** 1997 Aug 15;157(4):422–8 (20 ref.)
Dynamics of left ventricular thrombi in patients with acute anterior myocardial infarction treated with thrombolytics. Mooe T, et al. **Coron Artery Dis** 1995 Sep;6(9):703–7
Inhibitors of the platelet GP IIb-IIIa function in the treatment of acute coronary syndromes. Kugelmass AD.
Curr Opin Hematol 1997 Sep;4(5):301–5 (16 ref.)
Age-related changes in cardiac physiology. Can they be postponed or treated by drugs? Svanborg A.
Drugs Aging 1997 Jun;10(6):463–72 (75 ref.)
The calcium antagonist controversy; implications beyond drug prescription [editorial] Poole-Wilson PA.
Eur Heart J 1996 Aug;17(8):1131–3
Disabling dyspnoea in patients with advanced disease: lack of effect of nebulized morphine. Noseda A, et al.
Eur Respir J 1997 May;10(5):1079–83
Lysis of a right atrial thrombus of more than a week's duration by high dose urokinase in a one-year-old child. Dufour C, et al. **Haematologica** 1997 May–Jun;82(3):357–9
Angiotensin converting enzyme inhibitors: present status and future perspectives. Sharma S, et al. **Indian Heart J** 1995 Sep–Oct;47(5):509–16 (45 ref.)
Left atrial thrombus in a 10-month-old boy--successful thrombolysis with recombinant tissue-type plasminogen activator after open-heart surgery: review of the literature. Kehl HG, et al. **Intensive Care Med** 1996 Sep;22(9):968–71 (11 ref.)

Predicting risk of embolization during anticoagulation for left atrial thrombus by transesophageal echocardiography: a case report. Misumi I, et al. **J Cardiol** 1996 Aug;28(2):93–7

Platelet-activating factor and cardiac diseases: therapeutic potential for PAF inhibitors. Feuerstein G, et al. **J Lipid Mediat Cell Signal** 1997 Mar;15(3):255–84 (193 ref.)

Dexrazoxane (ICRF-187): a cardioprotective agent during anthracycline chemotherapy. O'Marcaigh AS, et al. **J Pediatr Oncol Nurs** 1997 Apr;14(2):96–8 (11 ref.)

Thrombus in right atrium in two infants successfully treated with tissue plasminogen activator. Martínez-Tallo E, et al. **Pediatr Emerg Care** 1997 Feb;13(1):37–9

Nitric oxide supplementation or synthesis block—which is the better approach to treatment of heart disease? Curtis MJ, et al. **Trends Pharmacol Sci** 1997 Jul;18(7):239–44 (63 ref.)

[Protection of the heart with beta blockaders] **Internist (Berl)** 1996 Feb;37(2 Suppl):1–4 **(Ger)**

[Extracardiovascular toxic effects of drugs used in cardiology] Zennaro RG. **Cardiologia** 1995 Dec;40(12 Suppl 1):99–104 **(Ita)**

[Floating thromboembolism of the right atrium in pulmonary embolism. Effectiveness of treatment with rTPA] Stefanini MG, et al. **Minerva Cardioangiol** 1997 Jan–Feb;45(1–2):21–4 (Eng. Abstr.) **(Ita)**

[Role of magnesium in the management of cardiopathy] Ramos RA, et al. **Arq Bras Cardiol** 1995 Nov;65(5):431–5 (30 ref.) **(Por)**

[Mobile thrombus in the right atrium and pulmonary embolism: efficacy of thrombolytic treatment with alteplase (letter)] López-Haldón JE, et al. **Med Clin (Barc)** 1997 Feb 8;108(5):198 **(Spa)**

ECONOMICS

Publications concerning costs of various cardiovascular procedures and drugs. Talley JD, et al. **Am J Cardiol** 1997 Jan 1;79(1):70–2

A pharmacoeconomic evaluation of the use of dexrazoxane in preventing anthracycline-induced cardiotoxicity in patients with stage IIIB or IV metastatic breast cancer. Bates M, et al. **Clin Ther** 1997 Jan–Feb;19(1):167–84

Nuclear cardiology in hospital-based practice. Gibbons R. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S179–83

[Echocardiography versus cardiac catheterization for surgical indications in the era of DRG: cost-benefit analysis] Di Liso G, et al. **G Ital Cardiol** 1996 Sep; 26(9):1049–53 **(Ita)**

ENZYMOLOGY

Time course of troponin I, myoglobulin, and cardiac enzyme release after electrical cardioversion. Georges JL, et al. **Am J Cardiol** 1996 Oct 1;78(7):825–6

The role of matrix metalloproteinases in heart disease [see comments] Cleutjens JP. **Cardiovasc Res** 1996 Nov; 32(5):816–21 (35 ref.). Comment in: Cardiovasc Res 1996 Nov;32(5):814–5.

A structural diaster: an indermining of underpinnings [comment] Weber KT. **Cardiovasc Res** 1996 Nov; 32(5):814–5. Comment on: Cardiovasc Res 1996 Nov;32(5):816–21.

Ubiquinone—the everywhere nutrient. **J Am Optom Assoc** 1997 Jul;68(7):463–4

EPIDEMIOLOGY

Cardiac disease in chronic uremia: epidemiology. Bloembergen WE. **Adv Ren Replace Ther** 1997 Jul; 4(3):185–93 (30 ref.)

Circadian variation in incidence of cardioembolism. Yamamoto K, et al. **Am J Cardiol** 1996 Dec 1;78(11):1312–4

Heart disease risk-factor status and dietary changes in the Cretan population over the past 30 y: the Seven Countries Study. Kafatos A, et al. **Am J Clin Nutr** 1997 Jun; 65(6):1882–6

A follow-up study of job strain and heart disease among males in the NHANES1 population. Steenland K, et al. **Am J Ind Med** 1997 Feb;31(2):256–60

Review of cardiac events in USAF aviators [see comments] Osswald S, et al. **Aviat Space Environ Med** 1996 Nov; 67(11):1023–7. Comment in: Aviat Space Environ Med 1997 Apr;68(4):354.

Prevalence of panic disorder in cardiac outpatients. Morris A, et al. **Can J Psychiatry** 1997 Mar;42(2):185–90

Ordering the risk factors [letter] Lincoln JE. **Circulation** 1997 Sep 16;96(6):2085–6

Fifteen year surveillance of echinococcal heart disease from a referral hospital in Greece. Kardaras F, et al. **Eur Heart J** 1996 Aug;17(8):1265–70

Evidence for reduced coronary flow reserve in patients with insulin-dependent diabetes. A possible cause for diabetic heart disease in man. Strauer BE, et al. **Exp Clin Endocrinol Diabetes** 1997;105(1):15–20

Weight variability and incident disease in older women: the Iowa Women's Health Study. French SA, et al. **Int J Obes Relat Metab Disord** 1997 Mar;21(3):217–23

The use of epidemiologic approaches and meta-analysis to determine mineral element requirements. Tucker K. **J Nutr** 1996 Sep;126(9 Suppl):2365S–2372S

An estimate of the upper limit for the rate of adverse cardiac effects in children treated with growth hormone. Bienkowski RS. **J Pediatr Endocrinol Metab** 1995 Oct–Dec; 8(4):309

Landscapes of longevity: the calcium–selenium–mercury connection in cancer and heart disease. Foster HD. **Med Hypotheses** 1997 Apr;48(4):355–60 (76 ref.)

Fat distribution, physical activity, and cardiovascular risk factors. Hunter GR, et al. **Med Sci Sports Exerc** 1997 Mar; 29(3):362–9

The socio-economic distribution of heart diseases: changing gradients in The Netherlands. Otten FW, et al. **Soc Sci Med** 1997 May;44(9):1349–56

ETHNOLOGY

An epidemiologic review of dietary intake studies among American Indians and Alaska Natives: implications for heart disease and cancer risk [see comments] Bell RA, et al. **Ann Epidemiol** 1997 May;7(4):229–40 (84 ref.). Comment in: Ann Epidemiol 1997 May;7(4):227–8.

Hypertension and heart disease in women: the treatment of obesity as a disease. Harp JB. **Ethn Dis** 1996 Autumn; 6(3–4):315–20

Hypertension and heart disease in women. Yunis C. **Ethn Dis** 1996 Autumn;6(3–4):311–4

Heart disease and associated risk factors among Hawaiians: culturally responsive strategies. Mokuau N, et al. **Health Soc Work** 1995 Feb;20(1):46–51 (20 ref.)

ETIOLOGY

Myocardial bridging as a factor in heart disorders: critical review and hypothesis. Yamaguchi M, et al. **Acta Anat (Basel)** 1996;157(3):248–60 (102 ref.)

Cardiac sequelae of Kawasaki disease in Japan over 10 years. Hirose K, et al. **Acta Paediatr Jpn** 1995 Dec;37(6):667–71

Cardiac findings in generalized lipodystrophy. Bjørnstad PG, et al. **Acta Paediatr Suppl** 1996 Jun;413:39–43

Left ventricular narrow-neck large diverticulum caused by ischemic heart disease. Bashour TT, et al. **Am Heart J** 1997 Apr;133(4):481–3

Compression of right atrium by traumatic diaphragmatic hernia. D'Cruz IA, et al. **Am Heart J** 1997 Mar; 133(3):380–3

Right atrial thrombus complicating mitral valvuloplasty. Konecky N, et al. **Am Heart J** 1996 Oct;132(4):893–4

Comparison of frequency of left atrial thrombus in patients with mechanical prosthetic cardiac valves and stroke versus transient ischemic attacks. Barbetseas J, et al. **Am J Cardiol** 1997 Aug 15;80(4):526–8

Incidence and natural history of left ventricular thrombus following anterior wall acute myocardial infarction. Greaves SC, et al. **Am J Cardiol** 1997 Aug 15;80(4):442–8

Clinical presentation of cardiac herniation without lung resection: a surgical emergency. Groudine SB, et al. **Am J Crit Care** 1996 Sep;5(5):373–5

Classic papers symposium: ambulatory blood pressure monitoring and hypertensive target organ damage. DiPette DJ, et al. **Am J Med Sci** 1996 Nov;312(5):221–4

Classic papers symposium: history of medicine series: surrogate indexes of target organ involvement in hypertension. Frohlich ED. **Am J Med Sci** 1996 Nov; 312(5):225–8

Complications of MI: beyond the acute stage. O'Donnel L. **Am J Nurs** 1996 Sep;96(9):25–30; quiz 30–1 (15 ref.)

Hysterectomy, oophorectomy, and heart disease risk factors in older women. Kritz-Silverstein D, et al. **Am J Public Health** 1997 Apr;87(4):676–80

Cardiac status in typhoid fever. Nand N, et al. **Angiology** 1996 Nov;47(11):1095–100

Cardiopulmonary sequelae after treatment for Hodgkin's disease: increased risk in females? Lund MB, et al. **Ann Oncol** 1996 Mar;7(3):257–64

Right atrial mural thrombus associated with pericarditis. Toda R, et al. **Ann Thorac Surg** 1996 Nov;62(5):1505–6

Long-term cardiac mortality after radiotherapy of breast cancer—application of the relative seriality model. Gagliardi G, et al. **Br J Radiol** 1996 Sep;69(825):839–46

Cardiac abnormalities in a patient with localized scleroderma [letter] Paroli M, et al. **Br J Rheumatol** 1996 Jul;35(7):703–4

Cardiac complications after hepatic resection. Yanaga K, et al. **Br J Surg** 1996 Oct;83(10):1448–51

Whipple's disease and the heart. Khairy P, et al. **Can J Cardiol** 1996 Sep;12(9):831–4

Cardiac, cerebral, and vascular complications of infective endocarditis. Harris PS, et al. **Cardiol Clin** 1996 Aug; 14(3):437–50 (98 ref.)

Coronary artery fistula complicating coronary angioplasty: interventional cardiology turns into invasive cardiology [editorial; comment] Cheng TO. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):37. Comment on: Cathet Cardiovasc Diagn 1997 Sep;42(1):34–6.

LAD–right ventricular fistula complicating PTCA: another case [see comments] Marques KM, et al. **Cathet Cardiovasc Diagn** 1997 Sep;42(1):34–6. Comment in: Cathet Cardiovasc Diagn 1997 Sep;42(1):37.

Traumatic thoracic fistulas. Sebastian MW, et al. **Chest Surg Clin N Am** 1997 May;7(2):385–400 (33 ref.)

Cardiac risk stratification for high-risk vascular surgery. Bartels C, et al. **Circulation** 1997 Jun 3;95(11):2473–5

Sustained prognostic value of dobutamine stress echocardiography for late cardiac events after major noncardiac vascular surgery [see comments] Poldermans D, et al. **Circulation** 1997 Jan 7;95(1):53–8. Comment in: Circulation 1997 Jan 7;95(1):8–10.

Left ventricular mural thrombus after acute myocardial infarction. Keeley EC, et al. **Clin Cardiol** 1996 Feb; 19(2):83–6 (26 ref.)

Obesity in Canada: a descriptive analysis. Canadian Heart Health Surveys Research Group. Macdonald SM, et al. **CMAJ** 1997 Jul 1;157 Suppl 1:S3–9

Pericardial heart disease. Hoit BD. **Curr Probl Cardiol** 1997 Jul;22(7):353–400 (131 ref.)

Is diabetic heart muscle disease related to cardiac ischemia or autonomic neuropathy? Izumi T, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:77–83

Heart disease in diabetes mellitus. Raman M, et al. **Endocrinol Metab Clin North Am** 1996 Jun;25(2):425–38 (64 ref.)

The role of particulate size and chemistry in the association between summertime ambient air pollution and hospitalization for cardiorespiratory diseases. Burnett RT, et al. **Environ Health Perspect** 1997 Jun;105(6):614–20

The role of genetic variants in angiotensin I converting enzyme, angiotensinogen and the angiotensin II type-1 receptor in the pathophysiology of heart muscle disease. Raynolds MV, et al. **Eur Heart J** 1995 Nov;16 Suppl K:23–30 (85 ref.)

Mixing anthracyclines and radiotherapy in early breast cancer: how safe is it? [corrected and republished article originally printed in Eur J Cancer 1996 Oct;32A(11):1845–8] HjiYiannakis P, et al. **Eur J Cancer** 1996 Dec;32A(13):2374–7 (41 ref.)

Mixing anthracyclines and radiotherapy in early breast cancer: how safe is it? [corrected and republished in Eur J Cancer 1996 Dec;32A(13):2374–7] HjiYiannakis P, et al. **Eur J Cancer** 1996 Oct;32A(11):1845–8 (41 ref.)

Fatal coronary embolization following high-speed rotational atherectomy. Duong van Huyen JP, et al. **Histopathology** 1996 Jul;29(1):73–6

Acute complications of cocaine intoxication. Zafar H, et al. **Hosp Pract (Off Ed)** 1997 Feb 15;32(2):167–70, 175–7, 181 (12 ref.)

Methioninase: a therapeutic for diseases related to altered methionine metabolism and transmethylation: cancer, heart disease, obesity, aging, and Parkinson's disease. Hoffman RM. **Hum Cell** 1997 Mar;10(1):69–80 (117 ref.)

Pathology of radiation-induced heart disease: a surgical and autopsy study of 27 cases. Veinot JP, et al. **Hum Pathol** 1996 Aug;27(8):766–73

Cardiac involvement in childhood polyarteritis nodosa. Günal N, et al. **Int J Cardiol** 1997 Aug 8;60(3):257–62

Endurance running performance in relation to cardiovascular risk indicators in adolescents. Bergström E, et al. **Int J Sports Med** 1997 May;18(4):300–7

Acute left ventricular dysfunction and left ventricular thrombus in a patient with cerebral hemorrhage. Misumi I, et al. **Intern Med** 1997 Feb;36(2):92–6

Etiologic diagnosis of pericardial disease: the value of routine tests during surgical procedures. Mueller XM, et al. **J Am Coll Surg** 1997 Jun;184(6):645–9

Cardiovascular manifestations of Lyme disease. Paparone PW. **J Am Osteopath Assoc** 1997 Mar;97(3):156–61 (31 ref.)

Reassessing the cardiac risk profile in chronic hemodialysis patients: a hypothesis on the role of oxidant stress and other non-traditional cardiac risk factors. Becker BN, et al. **J Am Soc Nephrol** 1997 Mar;8(3):475–86 (136 ref.)

ECG and cardiac enzymes changes associated with subarachnoid hemorrhage. Manavalan P, et al. **J Ark Med Soc** 1997 May;93(12):592–3

Evaluation of irradiated heart volumes in stage I breast cancer patients treated with postoperative adjuvant radiotherapy. Gyenes G, et al. **J Clin Oncol** 1997 Apr; 15(4):1348–53

Ambulatory ECG monitoring in workers exposed to electromagnetic fields. Bortkiewicz A, et al. **J Med Eng Technol** 1997 Mar–Apr;21(2):41–6

Effects of oral flora on platelets: possible consequences in cardiovascular disease. Herzberg MC, et al. **J Periodontol** 1996 Oct;67(10 Suppl):1138–42

Postoperative right ventricular dysfunction related to an unexpected late fatal complication. Jessurun GA, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):804–5

Giant right atrial thrombus: a life-threatening complication of long-term central venous access catheters. Ellis PK, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):865–8

Cardiovascular risk factors during sequentially combined 17 beta oestradiol and dydrogesterone (Femoston); results from a one-year study in postmenopausal women. Gelfand M, et al. **Maturitas** 1997 Mar;26(2):125–32

Cardiac involvement in HIV infection. Patel RC, et al. **Med Clin North Am** 1996 Nov;80(6):1493–512 (152 ref.)

Intracardiac thrombi in nephrotic syndrome [letter; comment] Jarmoliński T, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1299–300. Comment on: Nephrol Dial Transplant 1996 Aug;11(8):1627–30.

Role of the renin-angiotensin system on cardiac diseases. De Mello WC. **P R Health Sci J** 1996 Sep;15(3):193–4

Use of intravenous gamma-globulin for Kawasaki disease: effects on cardiac sequelae. Yanagawa H, et al. **Pediatr Cardiol** 1997 Jan–Feb;18(1):19–23

Late cardiac and vascular complications of primary hyperoxaluria in childhood [letter] Saatçi U, et al. **Pediatr Nephrol** 1996 Oct;10(5):677–8

Kawasaki syndrome. Melish ME. **Pediatr Rev** 1996 May; 17(5):153–62 (18 ref.)

Cardiac involvement in scieroderma. Deswal A, et al. **Rheum Dis Clin North Am** 1996 Nov;22(4):841–60 (87 ref.)

Cardiorespiratory function in Duchenne and Becker muscular dystrophy. Taşdemir HA, et al. **Turk J Pediatr** 1996 Jul-Sep;38(3):307-14

[The effect of HIV infection on high incidence of heart diseases in Kinshasa (Zaire). Echocardiographic study] Longo-Mbenza B, et al. **Ann Cardiol Angeiol (Paris)** 1997 Feb;46(2):81-7 (35 ref.) (Eng. Abstr.) **(Fre)**

[Heart and bereavement (editorial)] Bersay C. **Presse Med** 1996 Dec 21;25(40):2010-2 (Eng. Abstr.) **(Fre)**

[Is prognosis in AIDS patients different in cases of cardiac involvement? Prospective study of 34 patients (letter)] d'Ivernois C, et al. **Presse Med** 1997 May 3-10;26(15):714 **(Fre)**

[New concepts in the therapy of diabetic cardiopathies] Pogátsa G. **Orv Hetil** 1997 Jun 8;138(23):1491-4 (50 ref.) (Eng. Abstr.) **(Hun)**

[Mediterranean anemia and the cardiovascular system] Malavasi A, et al. **Cardiologia** 1997 Mar;42(3):245-55 (119 ref.) **(Ita)**

[The heart and hypothyroidism] Mariotti S, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):167-72 (65 ref.) **(Ita)**

[Heart involvement in Behcet's disease: a personal caseload en review of the literature] Giordano N, et al. **G Ital Cardiol** 1996 May;26(5):519-25 (35 ref.) (Eng. Abstr.) **(Ita)**

[Acute iatrogenic myopathy during treatment of status asthmaticus. Our experience and review of the literature] Pacini D, et al. **Minerva Anestesiol** 1997 Mar;63(3):81-91 (45 ref.) (Eng. Abstr.) **(Ita)**

[Echocardiographic prediction of risk for embolism in patients with infective endocarditis] Koie S, et al. **J Cardiol** 1997;29 Suppl 2:117-22 (Eng. Abstr.) **(Jpn)**

[Intracardiac thrombosis in myocardial infarction] Sudo K. **Ryoikibetsu Shokogun Shirizu** 1996;(12):696-9 (11 ref.) **(Jpn)**

[Heart lesions in patients with systemic sclerosis (editorial)] Kucharz EJ. **Pol Arch Med Wewn** 1997 Jan;97(1):1-6 **(Pol)**

[Conditions and consequences of cardiac alterations in patients with end-stage renal disease on maintenance hemodialysis] Zabicka H. **Postepy Hig Med Dosw** 1996; 50(3):277-91 (100 ref.) (Eng. Abstr.) **(Pol)**

[Bioelectric activity of the myocardium and central hemodynamics in patients with vibration disease] Liubchenko PN, et al. **Med Tr Prom Ekol** 1996;(12):11-4 (Eng. Abstr.) **(Rus)**

[Intracavitary thrombosis--unusual complications in ulcerative colitis] Sasváry F, et al. **Bratisl Lek Listy** 1996 Nov;97(11):669-72 (Eng. Abstr.) **(Slo)**

[Right ventricular thrombosis and pulmonary thrombosis associated with venous-peritoneal diversion (Le Veen). Diagnosis with transesophageal echocardiography] Gil Suay V, et al. **Arch Bronconeumol** 1996 Jan;32(1):40-2 (Eng. Abstr.) **(Spa)**

[Factors causing cardiac herniation after thoracic surgery (letter; comment)] Sanz M, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):339. Comment on: Rev Esp Anestesiol Reanim 1996 Apr;43(4):153. **(Spa)**

[Non-Hodgkin's lymphoma with heart disease in patients with AIDS: clinical and echocardiographic aspects] Castro M, et al. **Rev Esp Cardiol** 1997 Mar;50(3):201-4 (Eng. Abstr.) **(Spa)**

GENETICS

Genetic localization of a newly recognized autosomal dominant limb-girdle muscular dystrophy with cardiac involvement (LGMD1B) to chromosome 1q11-21. van der Kooi AJ, et al. **Am J Hum Genet** 1997 Apr;60(4):891-5

HLA-B27-associated cardiac disease. Bergfeldt L. **Ann Intern Med** 1997 Oct 15;127(8 (Pt 1)):621-9 (107 ref.)

Chromosome 22q11 microdeletion and isolated conotruncal heart defects [letter; comment] Digilio MC, et al. **Arch Dis Child** 1997 Jan;76(1):79-80. Comment on: Arch Dis Child 1996 Jan;74(1):62-3.

Association between psychiatric disorders and Marfan's syndrome in a large Sardinian family with a high prevalence of cardiac abnormalities. Mercuro G, et al. **Clin Cardiol** 1997 Mar;20(3):243-5

Molecular genetics. **Curr Opin Cardiol** 1997 May;12(3):B91-7

Contractile protein mutations and heart disease. Vikstrom KL, et al. **Curr Opin Cell Biol** 1996 Feb;8(1):97-105 (80 ref.)

Analysis of the myoglobin gene in heart disease. Fernandez E, et al. **Hum Mutat** 1997;9(5):426-30

Molecular biology of heart disease. Synopsis of the pathophysiological basis of cardiac hypertrophy, familial hypertrophic cardiomyopathy, long QT syndrome and Marfan syndrome. Kurabayashi M, et al. **Intern Med** 1996 Apr;35(4):243-8 (46 ref.)

Toward molecular strategies for heart disease--past, present, future. Chien KR, et al. **Jpn Circ J** 1997 Feb;61(2):91-118 (206 ref.)

Transthyretin Ile 122 and cardiac amyloidosis in African-Americans. 2 case reports. Jacobson DR, et al. **Tex Heart Inst J** 1997;24(1):45-52

HISTORY

A short history of cardiology. Fleming RR. **Clio Med** 1997; 40:ix-xviii, 1-229

Cardiac disease construction on the borderland. Daly J, et al. **Soc Sci Med** 1997 Apr;44(7):1043-9

IMMUNOLOGY

Autoantibodies against sympathetic ganglia and evidence of cardiac sympathetic dysinnervation in newly diagnosed and long-term IDDM patients. Schsnell O, et al. **Diabetologia** 1996 Aug;39(8):970-5

Intracardiac thrombi associated with antiphospholipid antibodies. Plein D, et al. **J Am Soc Echocardiogr** 1996 Nov-Dec;9(6):891-3

High prevalence of antiphospholipid antibodies in patients taking procainamide. Merrill JT, et al. **J Rheumatol** 1997 Jun;24(6):1083-8

METABOLISM

Evaluation of cardiac subacute toxicity of epirubicin, chlorambucil, cisplatin, methotrexate and a homo-aza-steroid ester with antitumor activity in rats using serum biochemical parameters. Pispirigos K, et al. **Arzneimittelforschung** 1997 Jan;47(1):92-6

Mechanical and neuroendocrine regulation of the endocrine heart. de Bold AJ, et al. **Cardiovasc Res** 1996 Jan;31(1):7-18 (154 ref.)

Analysis of the variability in the pharmacokinetics and pharmacodynamics of bumetanide in critically ill infants. Sullivan JE, et al. **Clin Pharmacol Ther** 1996 Oct; 60(4):414-23

Nutrition and therapeutics [editorial] Samman S. **Curr Opin Lipidol** 1997 Aug;8(4):U47-8

Phosphorus magnetic resonance spectroscopy of the human heart: current status and clinical implications. Beyerbacht HP, et al. **Eur Heart J** 1996 Aug;17(8):1158-66 (55 ref.)

Differences in sarcoplasmic reticulum gene expression in myocardium from patients undergoing cardiac surgery. Quantification of steady-state levels of messenger RNA using the reverse transcription-polymerase chain reaction. Ohkusa T, et al. **Heart Vessels** 1997;12(1):1-9

Involvement of nitric oxide in nicotinic receptor-mediated myopathy. El-Dada MD, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1463-70

S-100 protein release in a range of cardiothoracic surgical procedures. Kumar P, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):953-4

[Bone density and laboratory parameters of bone metabolism in patients with terminal heart disease] Christ E, et al. **Schweiz Med Wochenschr** 1996 Sep 14;126(37):1553-9 (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Fungal infections of the cardiovascular system--a review. Kuttin ES. **Mycoses** 1997 Jan-Feb;40(1-2):3-24 (324 ref.)

Is CK-MB isoenzyme useful for diagnosis of cardiac involvement in icteric leptospirosis? Machado ES, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep-Oct;37(5):461-5

MORTALITY

Cardiac disease in chronic uremia: clinical outcome and risk factors. Foley RN, et al. **Adv Ren Replace Ther** 1997 Jul; 4(3):234-48 (160 ref.)

Prospective validation of a composite end point in thrombolytic trials of acute myocardial infarction (TIMI 4 and 5). Thrombosis In Myocardial Infarction. Cannon CP, et al. **Am J Cardiol** 1997 Sep 15;80(6):696-9

An echocardiographic study comparing male Swedish elite orienteers with other elite endurance athletes. Henriksen E, et al. **Am J Cardiol** 1997 Feb 15;79(4):521-4

Death in custody due to a colopericardial fistula. Huddleston DJ, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):194-8

Clinically recognized cardiac dysfunction: an independent determinant of mortality among critically ill patients. Is there a role for serial measurement of cardiac troponin I? Kollef MH, et al. **Chest** 1997 May;111(5):1340-7

Increased survival of AIDS patients with heart disease within 10 years? [letter; comment] Monsuez JJ, et al. **Circulation** 1996 Nov 1;94(9):2312-3. Comment on: Circulation 1995 Dec 1;92(11):3229-34.

Effect of intensive treatment of diabetes of the risk of death or renal failure in NIDDM and IDDM. Hellman R, et al. **Diabetes Care** 1997 Mar;20(3):258-64

Electrocardiographic Minnesota code findings predicting short-term mortality in asymptomatic subjects. The Italian RIFLE Pooling Project (Risk Factors and Life Expectancy). Menotti A, et al. **G Ital Cardiol** 1997 Jan; 27(1):40-9

Comparison of early and late mortality in men and women after isolated coronary artery bypass graft surgery in Stockholm, Sweden, 1980 to 1989. Hammar N, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):659-64

Atrial natriuretic peptides predict mortality in the elderly [see comments] Wallén T, et al. **J Intern Med** 1997 Apr; 241(4):269-75. Comment in: J Intern Med 1997 Apr;241(4):257-9.

Heart disease deaths on death certificates re-evaluated by clinical records in a Japanese city. Yamashita T, et al. **Jpn Circ J** 1997 Apr;61(4):331-8

Consumption of alcohol and mortality in Russia [letter] Cleophas TJ, et al. **Lancet** 1997 Sep 27;350(9082):956-7

Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery [letter; comment] Devereaux PJ, et al. **N Engl J Med** 1997 May 15;336(20):1452-3; discussion 1453-4. Comment on: N Engl J Med 1996 Dec 5;335(23):1713-20.

Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery [letter; comment] Ho T, et al. **N Engl J Med** 1997 May 15;336(20):1452; discussion 1453-4 . Comment on: N Engl J Med 1996 Dec 5;335(23):1713-20.

Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery [letter; comment] Petros JA. **N Engl J Med** 1997 May 15;336(20):1452; discussion 1453-4 . Comment on: N Engl J Med 1996 Dec 5;335(23):1713-20.

Variation among hospitals in coronary-angiography practices and outcomes after myocardial infarction in a large health maintenance organization [see comments] Selby JV, et al. **N Engl J Med** 1996 Dec 19;335(25):1888-96. Comment in: N Engl J Med 1996 Dec 19;335(25):1918-9.

Analysis of the risks associated with calcium channel blockade: implications for the obstetrician-gynecologist. Davis WB, et al. **Obstet Gynecol Surv** 1997 Mar; 52(3):198-201 (18 ref.)

Cardiac disease during pregnancy--a Free State perspective on maternal morbidity and mortality. Schoon MG, et al. **S Afr Med J** 1997 Feb;87 Suppl 1:C19-22

The diet-heart disease hypothesis: a response to Atrens [comment] Rieger E. **Soc Sci Med** 1996 May;42(9):1227-33 (39 ref.). Comment on: Soc Sci Med 1994 Aug;39(3):433-47.

History of parental death from stroke or heart trouble and the risk of stroke in middle-aged men. Wannamethee SG, et al. **Stroke** 1996 Sep;27(9):1492-8

[Reevaluation of heart disease deaths on death certificates and trends for ischemic heart disease mortality during the last five years in Oita city] Satto I, et al. **Nippon Koshu Eisei Zasshi** 1997 Apr;44(4):292-303 (Eng. Abstr.) **(Jpn)**

NURSING

Effect of dedicated monitor watchers on patients' outcomes. Funk M, et al. **Am J Crit Care** 1997 Jul;6(4):318-23

Transesophageal echocardiography. Zitkus BS. **Am J Nurs** 1997 Sep;97(9):17-8

Communication and choice in dying from heart disease. McCarthy M, et al. **J R Soc Med** 1997 Mar;90(3):128-31

PARASITOLOGY

Cardiac echinococcsis with multivisceral involvement. Uysalel A, et al. **Pediatr Cardiol** 1996 Jul-Aug;17(4):268-70

[The heart and parasitic diseases] Mafart B, et al. **Med Trop (Mars)** 1996;56(3 Suppl):40-4 (41 ref.) **(Fre)**

PATHOLOGY

Apoptosis in the heart. Umansky SR, et al. **Adv Pharmacol** 1997;41:383-407 (85 ref.)

A case of right ventricular dilated cardiomyopathy. Okada E, et al. **Am J Cardiovasc Pathol** 1995;5(1):1-10

Sudden cardiac death associated with hypoplasia of the coronary arteries and conduction system alteration. Smith ET Jr, et al. **Am J Forensic Med Pathol** 1997 Jun; 18(2):189-93

Magnetic resonance imaging in cardiology: current status and perspectives. Fedele F, et al. **Cardiologia** 1996 Jul; 41(7):595-611 (109 ref.)

A new method for isolation of cardiac myocytes by percutaneous endomyocardial biopsy. Abela GS, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):227-30

Fatal coronary embolization following high-speed rotational atherectomy. Duong van Huyen JP, et al. **Histopathology** 1996 Jul;29(1):73-6

Blood cyst of the pulmonary valve in an adult: report of a case and review of the literature. Minato H, et al. **Hum Pathol** 1997 Feb;28(2):252-5 (21 ref.)

Pathology of radiation-induced heart disease: a surgical and autopsy study of 27 cases. Veinot JP, et al. **Hum Pathol** 1996 Aug;27(8):766-73

Activation of microglia in the brains of humans with heart disease and hypercholesterolemic rabbits [see comments] Streit WJ, et al. **J Mol Med** 1997 Feb;75(2):130-8. Comment in: J Mol Med 1997 Feb;75(2):73-4.

Cardiac pathology and adult aboriginal mortality: a coronial study of sudden and external cause deaths in the top end of the Northern Territory in 1990. Weeramanthri TS, et al. **Pathology** 1996 Jan;28(1):40-4

Structure conditions function and vice versa [editorial] Lunkenheimer PP. **Technol Health Care** 1997 Apr; 5(1-2):1-12 (84 ref.)

Visceral organ involvement and extracellular matrix changes in beta 2-microglobulin amyloidosis--a comparative study with systemic AA and AL amyloidosis. Ohashi K, et al. **Virchows Arch** 1997 Jun;430(6):479-87

[Calciphylactic arteriopathy] Seifert G, et al. **Frankf Z Pathol** 1966;75(4):342-61 **(Ger)**

[Anatomo-clinical correlation. Case 1/96. Instituto do Coração do Hospital das Clínicas FMUSP (clinical conference)] **Arq Bras Cardiol** 1996 Mar;66(3):161-5 **(Por)**

[Consensus SOCESP-SBC on magnetic resonance imaging in cardiology] Pinto IM, et al. **Arq Bras Cardiol** 1995 Nov; 65(5):451-7 (38 ref.) **(Por)**

[Structural and functional changes in the heart in dermatomyositis and polymyositis] Makolkin VI, et al. **Klin Med (Mosk)** 1997;75(8):13-5 (38 ref.) **(Rus)**

HEART DISEASES

PHYSIOPATHOLOGY

Cardiac risk patient--intraoperative contribution: anaesthetic management. Boldt J. **Acta Anaesthesiol Scand Suppl** 1996; 109:133–4

The cardiac risk patient: monitoring update. Haider W. **Acta Anaesthesiol Scand Suppl** 1996;109:134–5

Myocardial bridging as a factor in heart disorders: critical review and hypothesis. Yamaguchi M, et al. **Acta Anat (Basel)** 1996;157(3):248–60 (102 ref.)

Cardiac disease in chronic uremia: pathophysiology. Amann K, et al. **Adv Ren Replace Ther** 1997 Jul;4(3):212–24 (125 ref.)

Cardiac disease in chronic uremia: pathogenesis. London GM, et al. **Adv Ren Replace Ther** 1997 Jul;4(3):194–211 (140 ref.)

Role of mitral regurgitation in preventing mitral orifice occlusion in a patient with a free-floating left atrial thrombus and mitral stenosis. Carp RM, et al. **Am Heart J** 1997 Apr;133(4):479–81

Effects of changes in atrioventricular gradient and contractility on left ventricular filling in human diastolic cardiac dysfunction. Lenihan DJ, et al. **Am Heart J** 1996 Dec;132(6):1179–88

Comparison of continuous left ventricular volumes by transthoracic two-dimensional digital echo quantification with simultaneous conductance catheter measurements in patients with cardiac diseases. Chen CH, et al. **Am J Cardiol** 1997 Sep 15;80(6):756–61

Isoproterenol tilt-table testing in patients with syncope and structural heart disease. Sheldon R, et al. **Am J Cardiol** 1996 Sep 15;78(6):700–3

Spontaneous reversibility of catecholamine-induced cardiotoxicity in rats. Deisher TA, et al. **Am J Cardiovasc Pathol** 1995;5(1):79–88

Utilization of echocardiography by internists and cardiologists: a comparative study. Calenda P, et al. **Am J Med** 1996 Dec;101(6):584–91

Lymph flow in sheep with rapid cardiac ventricular pacing. Drake RE, et al. **Am J Physiol** 1997 May;272(5 Pt 2):R1595–8

Functional implications of myocardial scar structure. Holmes JW, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2123–30

Cardiac function in genetically engineered mice with altered adrenergic receptor signaling. Rockman HA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1553–9 (46 ref.)

Hemodynamic response and change in organ blood volume during spinal anesthesia in elderly men with cardiac disease. Rooke GA, et al. **Anesth Analg** 1997 Jul;85(1):99–105

Ventilation during exercise in chronic heart failure. Wasserman K, et al. **Basic Res Cardiol** 1996;91 Suppl 1:1–11

Method for assessing cardiac function using magnetic resonance imaging. Soldo SJ, et al. **Biomed Instrum Technol** 1996 Jul–Aug;30(4):359–63

Felodipine or hydrochlorothiazide/triamterene for treatment of hypertension in the elderly: effects on blood pressure, hypertensive heart disease, metabolic and hormonal parameters. Trenkwalder P, et al. **Blood Press** 1996 May; 5(3):154–63

Cardiotoxicity of emetine dihydrochloride by calcium channel blockade in isolated preparations and ventricular myocytes of guinea-pig hearts. Lemmens-Gruber R, et al. **Br J Pharmacol** 1996 Jan;117(2):377–83

Heterotrimeric G proteins in heart disease. Schnabel P, et al. **Cell Signal** 1996 Sep;8(6):413–23 (126 ref.)

Symptom intensity and subjective limitation to exercise in patients with cardiorespiratory disorders. Hamilton AL, et al. **Chest** 1996 Nov;110(5):1255–63

Site-dependent intra-atrial conduction delay. Relationship to initiation of atrial fibrillation. Papageorgiou P, et al. **Circulation** 1996 Aug 1;94(3):384–9

Automated cardiac output measurement by spatiotemporal integration of color Doppler data. In vitro and clinical validation. Sun JP, et al. **Circulation** 1997 Feb 18; 95(4):932–9

Usefulness of electron-beam computed tomography in arrhythmogenic right ventricular dysplasia. Relationship to electrophysiological abnormalities and left ventricular involvement. Tada H, et al. **Circulation** 1996 Aug 1; 94(3):437–44

Clinical relevance of heart rate variability. Kautzner J, et al. **Clin Cardiol** 1997 Feb;20(2):162–8 (76 ref.)

Cardiovascular disease in the elderly. Cefalu CA, et al. **Compr Ther** 1996 Aug;22(8):509–14 (23 ref.)

Haemodynamic effects of pneumoperitoneum in elderly patients with an increased cardiac risk. Zollinger A, et al. **Eur J Anaesthesiol** 1997 May;14(3):266–75

Relationships among microalbuminuria, insulin resistance and renal-cardiac complications in insulin dependent and non insulin dependent diabetes. Nosadini R, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:1–7 (72 ref.)

The role of endothelins in cardiac function in health and disease. Karmazyn M. **EXS** 1996;76:209–30 (100 ref.)

Unusual left ventricular wall motion and a loud added sound during the isovolumic relaxation period in a patient with hypertensive heart disease. Mishiro Y, et al. **Heart** 1997 Mar;77(3):290–2

Low voltage, Q waves, and congestive heart failure. Hancock EW. **Hosp Pract (Off Ed)** 1997 Jun 15;32(6):21–2

Palpitations: what is the mechanism, and when should we treat them? Rosano GM, et al. **Int J Fertil Womens Med** 1997 Mar–Apr;42(2):94–100 (23 ref.)

Influence of left atrial pressure on left atrial appendage flow velocity patterns in patients in sinus rhythm. Tabata T, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):857–64

Relationship between pulmonary capillary wedge V wave and transmitral and pulmonary venous flow velocity patterns in various heart diseases. Kageji Y, et al. **J Card Fail** 1996 Sep;2(3):215–22

Heart rate variability: a challenge for a new way of thinking [editorial; comment] Malliani A. **J Card Fail** 1996 Sep; 2(3):197–202 (30 ref.). Comment on: J Card Fail 1996 Sep;2(3):185–92.

Hemodynamic changes during laparoscopic cholecystectomy in patients with severe cardiac disease. Hein HA, et al. **J Clin Anesth** 1997 Jun;9(4):261–5

The effects of class I drugs on the cycle length of sustained ventricular tachycardia and the signal-averaged electrocardiogram. Doi T, et al. **Jpn Circ J** 1997 Jun; 61(6):495–502

Cardiac involvement in HIV infection. Patel RC, et al. **Med Clin North Am** 1996 Nov;80(6):1493–512 (152 ref.)

Experimental study on microthrombi and myocardial injuries. Zhen ZY, et al. **Microvasc Res** 1996 Jan;51(1):99–107

Pathophysiological and clinical aspects of the CO2 pneumoperitoneum (CO2-PP). Gebhardt H, et al. **Surg Endosc** 1997 Aug;11(8):864–7

Structure conditions function and vice versa [editorial] Lunkenheimer PP. **Technol Health Care** 1997 Apr; 5(1–2):1–12 (84 ref.)

[Apolipoproteins: pharmacologic targets in cardio-cerebrovascular diseases--the place of apolipoprotein E] Siest G. **J Pharm Belg** 1997 Mar–Apr; 52(2):99 **(Fre)**

[Shoshin beriberi. A rapidly curable hemodynamic disaster] Meurin P. **Presse Med** 1996 Jul 6–13;25(24):1115–8 (8 ref.) (Eng. Abstr.) **(Fre)**

[Perioperative myocardial infarction and cardiac complications after noncardiac surgery in patients with prior myocardial infarction. I. Clinical data and diagnosis, incidence.] Münzer T, et al. **Anaesthesist** 1996 Mar; 45(3):213–20 (Eng. Abstr.) **(Ger)**

[Cardiovascular effects of thyroid hormones] Mohr-Kahaly S, et al. **Z Kardiol** 1996;85 Suppl 6:219–31 (126 ref.) (Eng. Abstr.) **(Ger)**

[Computerized assessment of electric heart signals and cardiovascular images] De Biase L, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):491–9 (34 ref.) **(Ita)**

["Diastology" (editorial)] Pepi M. **Cardiologia** 1997 Mar; 42(3):235–6 **(Ita)**

[The treatment of the cardiac patient in dentistry and oromaxillofacial surgery. II. The practical management of patients with hemodynamic pathologies] Chiarini L, et al. **Minerva Stomatol** 1997 Apr;46(4):183–90 (15 ref.) (Eng. Abstr.) **(Ita)**

[Current aspects of the role of endothelins in cardiac pathology] Rossi G. **Recenti Prog Med** 1997 Jul–Aug; 88(7–8):301–2 **(Ita)**

[Perioperative care of patients with heart dysfunction] Soto S. **Masui** 1996 Dec;45 Suppl:S128–33 (12 ref.) **(Jpn)**

[Cardiac contractile dysfunction in response to surgical stress including trauma, hemorrhage, and infection] Suzuki K, et al. **Nippon Geka Gakkai Zasshi** 1996 Sep;97(9):745–51 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Structural and functional changes in the heart in dermatomyositis and polymyositis] Makolkin VI, et al. **Klin Med (Mosk)** 1997;75(8):13–5 (38 ref.) **(Rus)**

[The heart pumping function and the systemic regulation of blood circulation in groups of heart surgery patients] Knyshov HV, et al. **Fiziol Zh** 1996;42(5–6):3–18 (Eng. Abstr.) **(Ukr)**

PREVENTION & CONTROL

Cardiac effects of combination therapy. Messerli FH, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 2):146S–152S (54 ref.)

Anthracycline-induced cardiotoxicity [letter; comment] Klein HO. **Ann Intern Med** 1997 May 15;126(10):827; discussion 827–8. Comment on: Ann Intern Med 1996 Jul 1;125(1):47–58.

Phyto-oestrogens and Western diseases. Adlercreutz H, et al. **Ann Med** 1997 Apr;29(2):95–120 (356 ref.)

Comparative antioxidant and cardioprotective effects of ceruloplasmin, superoxide dismutase and albumin. Dumoulin MJ, et al. **Arzneimittelforschung** 1996 Sep; 46(9):855–61

Postmenopausal estrogen and heart disease. Barrett-Connor E. **Atherosclerosis** 1995 Dec;118 Suppl:S7–10 (14 ref.)

Role of dietary phyto-oestrogens in the protection against cancer and heart disease. Wiseman H. **Biochem Soc Trans** 1996 Aug;24(3):795–800 (47 ref.)

Oestrogens: molecular mechanisms of cardioprotection. Wiseman H. **Biochem Soc Trans** 1997 Feb;25(1):31–2 (13 ref.)

Kawasaki disease [editorial] Curtis N. **BMJ** 1997 Aug 9; 315(7104):322–3

Cardioprotective potential of angiotensin converting enzyme inhibitors. Gavras I, et al. **Braz J Med Biol Res** 1996 Jun; 29(6):701–5

Second chance [editorial] Vaillancourt C. **Can Fam Physician** 1997 Jun;43:1033–4, 1036–7 **(Eng, Fre)**

Reducing chemotherapy-associated toxicity in elderly cancer patients. Zagonel V, et al. **Cancer Treat Rev** 1996 May; 22(3):223–44 (135 ref.)

Alcohol and heart disease. Pearson TA. **Circulation** 1996 Dec 1;94(11):3023–5

Do kinins mediate cardioprotective and renoprotective effects of cilazapril in spontaneously hypertensive rats with renal ablation? Kohzuki M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S357–9

Primary prevention of heart disease and stroke: a simplified approach to estimating risk of events and making drug treatment decisions. McCormack JP, et al. **CMAJ** 1997 Aug 15;157(4):422–8 (20 ref.)

Increasing fish oil intake--any net benefits? **Drug Ther Bull** 1996 Aug;34(8):60–2 (38 ref.)

Nitric oxide: an endogenous cardioprotectant? Pabla R, et al. **EXS** 1996;76:71–85 (57 ref.)

Heart disease and associated risk factors among Hawaiians: culturally responsive strategies. Mokuau N, et al. **Health Soc Work** 1995 Feb;20(1):46–51 (20 ref.)

Four years of practice-based and exercise-supported behavioural medicine in one community of the German CINDI area. Countrywide Integrated Non-Communicable Diseases Intervention. Wiesemann A, et al. **Int J Sports Med** 1997 May;18(4):308–15

A review of "heart healthy" cookbooks. Hiser E. **J Cardiopulm Rehabil** 1996 Jul–Aug;16(4):217–8

Dose-finding study and pharmacokinetics of epirubicin and paclitaxel over 3 hours: a regimen with high activity and low cardiotoxicity in advanced breast cancer. Conte PF, et al. **J Clin Oncol** 1997 Jul;15(7):2510–7

Multicenter randomized controlled clinical trial to evaluate cardioprotection of dexrazoxane versus no cardioprotection in women receiving epirubicin chemotherapy for advanced breast cancer. Venturini M, et al. **J Clin Oncol** 1996 Dec; 14(12):3112–20

Atenolol for prevention of postsurgical cardiovascular events. Shapley-Quinn K, et al. **J Fam Pract** 1997 Mar; 44(3):243, 247

Supplementation with an algae source of docosahexaenoic acid increases (n-3) fatty acid status and alters selected risk factors for heart disease in vegetarian subjects. Conquer JA, et al. **J Nutr** 1996 Dec;126(12):3032–9

Protective effect of butylated hydroxyanisole on adriamycin-induced cardiotoxicity. Vora J, et al. **J Pharm Pharmacol** 1996 Sep;48(9):940–4

Prevention of postoperative pericardial adhesions using tissue-protective solutions. Seeger JM, et al. **J Surg Res** 1997 Feb 15;68(1):63–6

Transdermal estrogen replacement therapy: beneficial effects on hemostatic risk factors for cardiovascular disease. Lindoff C, et al. **Maturitas** 1996 May;24(1–2):43–50

Prevalence of aspirin use to prevent heart disease--Wisconsin, 1991, and Michigan, 1994. **MMWR Morb Mortal Wkly Rep** 1997 Jun 6;46(22):498–502

Reducing cardiovascular risk in patients undergoing noncardiac surgery [editorial; comment] Eagle KA, et al. **N Engl J Med** 1996 Dec 5;335(23):1761–3. Comment on: N Engl J Med 1996 Dec 5;335(23):1713–20.

Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery. Multicenter Study of Perioperative Ischemia Research Group [see comments] [published erratum appears in N Engl J Med 1997 Apr 3;336(14):1039] Mangano DT, et al. **N Engl J Med** 1996 Dec 5;335(23):1713–20. Comment in: N Engl J Med 1996 Dec 5;335(23):1761–3. Comment in: N Engl J Med 1997 May 15;336(20):1452; discussion 1453–4. Comment in: N Engl J Med 1997 May 15;336(20):1452–3; discussion 1453–4. Comment in: N Engl J Med 1997 May 15;336(20):1453; discussion 1453–4. Comment in: ACP J Club 1997 May-Jun;126(3):58.

Effect of atenolol on mortality and cardiovascular morbidity after noncardiac surgery [letter; comment] Reis SE, et al. **N Engl J Med** 1997 May 15;336(20):1453; discussion 1453–4 . Comment on: N Engl J Med 1996 Dec 5;335(23):1713–20.

Does CARET reduce lung cancer and heart disease? [letter] Vaidya JS. **Natl Med J India** 1997 Jan–Feb;10(1):47

Preclinical comparison of bis-diketopiperazine-propane (dexrazoxane) and bis-diketopiperazine-ethane (antimet) on the adriamycin-cardiotoxic effect. Květina J, et al. **Neoplasma** 1997;44(2):97–9

Intracardiac thrombus formation in cardiac impairment: the role of anticoagulant therapy. Lip GY. **Postgrad Med J** 1996 Dec;72(854):731–8 (64 ref.)

How much pain for cardiac gain? [news] Barinaga M. **Science** 1997 May 30;276(5317):1324–7

Psychologic profiles as predictors of success in a cardiovascular risk factors life-style intervention program. Banks WA, et al. **South Med J** 1996 Oct;89(10):971–6

[In vitro and in vivo studies on the cardioprotective action of oligomeric procyanidins in a Crataegus extract of leaves and blooms] Chatterjee SS, et al. **Arzneimittelforschung** 1997 Jul;47(7):821–5 (Eng. Abstr.) **(Ger)**

[Pharmacologic treatment of lipid metabolism disorders] Gmiński J. **Wiad Lek** 1996;49(7–12):173–81 (0 ref.) (Eng. Abstr.) **(Pol)**

[Do endogenous opioid peptides participate in the realization of the cardioprotective effect of adaptation?] Lishmanov IuB, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):3–5 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Cerebral functional deficit in cardiac surgical patients investigated with P300 and neuropsychological tests. Toner I, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996;

46:243–51
Heart–focused anxiety, illness beliefs, and behavioral impairment: comparing healthy heart–anxious patients with cardiac and surgical inpatients. Eifert GH, et al. **J Behav Med** 1996 Aug;19(4):385–99
Use of the stages of change in exercise adherence model among older adults with a cardiac diagnosis. Hellman EA. **J Cardiopulm Rehabil** 1997 May–Jun;17(3):145–55
Validity of rating of perceived exertion during graded exercise testing in apparently healthy adults and cardiac patients. Whaley MH, et al. **J Cardiopulm Rehabil** 1997 Jul–Aug;17(4):261–7
Neuropsychological impairment in candidates for cardiac surgery. Vingerhoets G, et al. **J Int Neuropsychol Soc** 1997 Sep;3(5):480–4
Cardiac Depression Scale: validation of a new depression scale for cardiac patients. Hare DL, et al. **J Psychosom Res** 1996 Apr;40(4):379–86
Consumption of alcohol and mortality in Russia [letter] Cleophas TJ, et al. **Lancet** 1997 Sep 27;350(9082):956–7
Development of an instrument to measure threat related to cardiac events. Bennett SJ, et al. **Nurs Res** 1996 Sep–Oct; 45(5):266–70
Cardiac patients' conversations and the process of establishing meaning. Frazier SK, et al. **Prog Cardiovasc Nurs** 1996 Fall;11(4):25–34
Personalizing choices: patients' experiences with making treatment decisions. Kelly–Powell ML. **Res Nurs Health** 1997 Jun;20(3):219–27
[Psychosomatic troubles in cardiology] Renard M. **Rev Med Brux** 1996 Oct;17(5):337–8 (Eng. Abstr.) **(Fre)**

RADIOGRAPHY

Coronary angiographic finding of thrombus in the left atrial appendage. Sakamoto I, et al. **Acta Radiol** 1996 Sep; 37(5):749–53
Contrast–enhanced radiographic computed tomographic findings in patients with straight back syndrome. Tokushima T, et al. **Am J Card Imaging** 1996 Oct; 10(4):228–34
Variation among cardiologists in the utilization of right heart catheterization at time of coronary angiography [see comments] Malone ML, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):125–30. Comment in: Cathet Cardiovasc Diagn 1996 Feb;37(2):131.
Is there more radiation using a two–monitor system? [letter] Ord MD. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):379
Chest imaging in the intensive care unit. Tocino I. **Eur J Radiol** 1996 Aug;23(1):46–57 (50 ref.)
Clinical applications of fast CT scanning in cardiology. Shemesh J, et al. **Isr J Med Sci** 1997 Mar;33(3):214–21 (56 ref.)
Magnetic resonance imaging of acquired cardiac disease. Carrol CL, et al. **Tex Heart Inst J** 1996;23(2):144–54 (87 ref.)
[Electron beam computerized tomography (EBCT) of the heart] Rienmüller R, et al. **Radiologe** 1997 May;37(5):410–6 (Eng. Abstr.) **(Ger)**
[Routine chest x–ray study in diagnosis of myocardial dysfunction. Part 1] Nizovtsova LA, et al. **Vestn Rentgenol Radiol** 1997 Jul–Aug;(4):54–9 **(Rus)**

RADIONUCLIDE IMAGING

Radionuclide imaging in the evaluation of heart disease. Butler RR Jr, et al. **Am Fam Physician** 1997 Jan; 55(1):221–32 (40 ref.)
Prognostic importance of scintigraphic left ventricular cavity dilation during intravenous dipyridamole technetium–99m sestamibi myocardial tomographic imaging in predicting coronary events. McClellan JR, et al. **Am J Cardiol** 1997 Mar 1;79(5):600–5
The role of radionuclide angiocardiography in the treatment of patients receiving doxorubicin–based chemotherapy: a reassessment. Dreicer R, et al. **Am J Clin Oncol** 1997 Apr; 20(2):132–7
Positron emission tomography in cardiovascular disease. Beanlands R. **Can J Cardiol** 1996 Oct;12(10):875–83 (58 ref.)
Cardiopulmonary thromboembolism detected by Tc–99m MH–1 antifibrin antibody. Line BR, et al. **Clin Nucl Med** 1997 Jun;22(6):376–9
Tc–99m HMPAO labeled platelets in the detection of left ventricular thrombosis post acute myocardial infarction. Prats E, et al. **Clin Nucl Med** 1996 Nov;21(11):864–6
Superimposition of In–111 platelet SPECT and CT/MR imaging in intracardiac thrombus. Suga K, et al. **Clin Nucl Med** 1996 Aug;21(8):595–601
Scintigraphic visualization of pulmonary thrombi with 123I–YPACK–TNK–tPA. De Bruyn VH, et al. **Coron Artery Dis** 1995 Sep;6(9):715–21
Imaging guidelines for nuclear cardiology procedures. American Society of Nuclear Cardiology. Instrumentation quality assurance and performance. **J Nucl Cardiol** 1996 May–Jun;3(3):G5–10
Nuclear cardiology in the literature. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 1):101–2
Proceedings of the 3rd Wintergreen Nuclear Cardiology Invitational Conference. July 14–16, 1996. **J Nucl Cardiol** 1997 Jan–Feb;4(1 Pt 1):83–98
Nuclear cardiology in the literature. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 1):180–1
Nuclear cardiology in hospital–based practice. Gibbons R. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S179–83
Scintigraphic evaluation of cardiac autonomic innervation. Münch G, et al. **J Nucl Cardiol** 1996 May–Jun;3(3):265–77 (89 ref.)
Current status of nuclear cardiology in Japan. Nishimura T. **J Nucl Cardiol** 1996 Sep–Oct;3(5):422–7 (0 ref.)
A primer of biostatistic and economic methods for diagnostic and prognostic modeling in nuclear cardiology: Part II [see comments] Shaw LJ, et al. **J Nucl Cardiol** 1997 Jan–Feb; 4(1 Pt 1):52–60 (58 ref.). Comment in: J Nucl Cardiol 1997 Jan–Feb;4(1 Pt 1):74–8.
Diversification of the portfolio [editorial] Zaret BL. **J Nucl Cardiol** 1996 Nov–Dec;3(6 Pt 1):455
Regional abnormality of iodine–123–MIBG in diabetic hearts. Hattori N, et al. **J Nucl Med** 1996 Dec;37(12):1985–90
Pharmacokinetics of radioiodinated fatty acid myocardial imaging agents in animal models and human studies. Knapp FF Jr, et al. **Q J Nucl Med** 1996 Sep;40(3):252–69 (97 ref.)
[Consensus SOCESP–SBC on nuclear medicine] Camargo EE, et al. **Arq Bras Cardiol** 1995 Nov;65(5):469–74 (40 ref.) **(Por)**

RADIOTHERAPY

Cardiologists broaden use of stents [news] Goldsmith MF. **JAMA** 1997 Jan 22–29;277(4):275–6

REHABILITATION

Comparison of standard– and extended–length participation in cardiac rehabilitation on body composition, functional capacity, and blood lipids. Brubaker PH, et al. **Am J Cardiol** 1996 Oct 1;78(7):769–73
Investigation is needed into why some patients are not offered cardiac rehabilitation [letter; comment] Greenwood D, et al. **BMJ** 1996 Nov 16;313(7067):1264. Comment on: BMJ 1996 Aug 3;313(7052):267–8.
RE: GR Cumming. The independent medical examination: cardiology assessment. 1996; 12:1245–52 [letter; comment] Dafoe W. **Can J Cardiol** 1997 May;13(5):443; discussion 443, 445. Comment on: Can J Cardiol 1996 Dec;12(12):1245–52.
RE: GR Cumming. The independent medical examination: cardiology assessment. 1996; 12:1245–52 [letter; comment] Guilmet–De Simone H, et al. **Can J Cardiol** 1997 May; 13(5):443. Comment on: Can J Cardiol 1996 Dec;12(12):1245–52.
Current trends in cardiac rehabilitation. Dafoe W, et al. **Can Med Assoc J** 1997 Feb 15;156(4):527–32 (45 ref.)
Cardiac rehabilitation: not just exercise anymore. Pashkow FJ. **Cleve Clin J Med** 1996 Mar–Apr;63(2):116–23 (28 ref.)
Staged discharge out of hospital of the Novacor left ventricular assist system (LVAS) recipients. Viganó M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S45–50
Factors associated with work resumption: a 5 year follow–up with cardiac patients. Myrtek M, et al. **Int J Cardiol** 1997 May 23;59(3):291–7
Changes in exercise capacity following cardiac rehabilitation in patients stratified according to age and gender. Results of the Massachusetts Association of Cardiovascular and Pulmonary Rehabilitation Multicenter Database. Balady GJ, et al. **J Cardiopulm Rehabil** 1996 Jan–Feb;16(1):38–46
Use of the stages of change in exercise adherence model among older adults with a cardiac diagnosis. Hellman EA. **J Cardiopulm Rehabil** 1997 May–Jun;17(3):145–55
The use of the telephone in cardiac and pulmonary rehabilitation [letter] Mack M. **J Cardiopulm Rehabil** 1997 Jul–Aug;17(4):288
Clinical applications of cardiopulmonary exercise testing. Mahler DA, et al. **J Cardiopulm Rehabil** 1996 Nov–Dec; 16(6):357–65 (44 ref.)
The use of the telephone in cardiac and pulmonary rehabilitation [published erratum appears in J Cardpulm Rehabil 1997 Mar–Apr;17(2):128] Miller NH. **J Cardiopulm Rehabil** 1996 Nov–Dec;16(6):349–52
Secondary prevention: no more exercise? Moore GE. **J Cardiopulm Rehabil** 1997 Jul–Aug;17(4):284–5; discussion 286–7
Outcome assessment in cardiac rehabilitation. Health–related quality of life and economic evaluation. Oldridge NB. **J Cardiopulm Rehabil** 1997 May–Jun;17(3):179–94 (169 ref.)
A North American survey of educational background and job responsibilities of cardiopulmonary rehabilitation program directors. Sharratt MT, et al. **J Cardiopulm Rehabil** 1997 Jan–Feb;17(1):9–15
Guidelines development [letter; comment] Smith LK. **J Cardiopulm Rehabil** 1996 Nov–Dec;16(6):427–8. Comment on: J Cardpulm Rehabil 1996 May–Jun;16(3):151–9.
National Survey on Gender Differences in Cardiac Rehabilitation Programs. Patient characteristics and enrollment patterns. Thomas RJ, et al. **J Cardiopulm Rehabil** 1996 Nov–Dec;16(6):402–12
Recommended guidelines for monitoring and supervision of North Carolina phase II/III cardiac rehabilitation programs. A position paper by the North Carolina Cardiopulmonary Rehabilitation Association. Verrill D, et al. **J Cardiopulm Rehabil** 1996 Jan–Feb;16(1):9–24
Relative role of ambulatory and residential rehabilitation. Cobelli F, et al. **J Cardiovasc Risk** 1996 Apr;3(2):172–5 (20 ref.)
Can the measurement of quality of life contribute to evaluation in cardiac rehabilitation services? McGee HM. **J Cardiovasc Risk** 1996 Apr;3(2):148–53 (55 ref.)
The cost of cardiac rehabilitation services in England and Wales. Gray AM, et al. **J R Coll Physicians Lond** 1997 Jan–Feb;31(1):57–61
The development and testing of a cardiac rehabilitation audit tool. Thompson DR, et al. **J R Coll Physicians Lond** 1997 May–Jun;31(3):317–20
[Guidelines of the French Society of Cardiology for exercise testing of adults in cardiology] **Arch Mal Coeur Vaiss** 1997 Jan;90(1):77–91 **(Fre)**
[Effect on the duration of mechanical ventilation of identifying patients capable of breathing spontaneously] Schönhofer B. **Pneumologie** 1997 Jun;51(6):599–600 **(Ger)**
[Cardiologic rehabilitation. An orienting overview] Weidemann H. **Z Arztl Fortbild (Jena)** 1996 Oct; 90(6):479–86 (8 ref.) (Eng. Abstr.) **(Ger)**
[Professional and organizational guidelines of cardiac rehabilitation (conditions and requirements). Hungarian College of Cardiology and Rehabilitation] Berényi I, et al. **Orv Hetil** 1997 Aug 17;138(33):2065–72 **(Hun)**
[Cardiac rehabilitation: custom–made design] Cerri B. **Cardiologia** 1995 Oct;40(10):745–52 (68 ref.) **(Ita)**
[The use of sodium chloride baths in children with a heart lesion subjected to long–term exposure to low radiation doses] Poberskaia VA, et al. **Voprosy Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb;(1):4–7 (Eng. Abstr.) **(Rus)**

SURGERY

Results of heart transplantation in patients with preexisting malignancies. Koerner MM, et al. **Am J Cardiol** 1997 Apr 1;79(7):988–91
Video–assisted removal of left ventricular mass. Duarte IG, et al. **Ann Thorac Surg** 1997 Mar;63(3):833–5
Risks of cardiac operations for elderly patients: reduction of the age factor. Katz NM, et al. **Ann Thorac Surg** 1997 May;63(5):1309–14
Fast–track cardiac surgery in a Department of Veterans Affairs patient population. London MJ, et al. **Ann Thorac Surg** 1997 Jul;64(1):134–41
Management of left ventricular assist device infection with heart transplantation. Prendergast TW, et al. **Ann Thorac Surg** 1997 Jul;64(1):142–7
Heart transplantation in septuagenarians [letter; comment] Robicsek F. **Ann Thorac Surg** 1997 Jul;64(1):289–90. Comment on: Ann Thorac Surg 1996 Dec;62(6):1731–6.
Glucose control lowers the risk of wound infection in diabetics after open heart operations. Zerr KJ, et al. **Ann Thorac Surg** 1997 Feb;63(2):356–61
Fast–to–slow muscle conversion by chronic electrostimulation: effects on mitochondrial respiratory chain function with possible implications for the gracilis neosphincter procedure [letter; comment] Hariawala MD. **Br J Surg** 1997 Apr;84(4):580–1. Comment on: Br J Surg 1996 Nov;83(11):1569–73.
Thyroid hormone alterations during and after cardiopulmonary bypass. Keçeligil HT, et al. **Cardiovasc Surg** 1996 Oct;4(5):617–22
Use of temporary atrial pacing in management of patients after cardiac surgery. Takeda M, et al. **Cardiovasc Surg** 1996 Oct;4(5):623–7
A new technique of reinforced sternal closure. Watanabe G, et al. **Cardiovasc Surg** 1996 Oct;4(5):639–40
Cerebral functional deficit in cardiac surgical patients investigated with P300 and neuropsychological tests. Toner I, et al. **Electroencephalogr Clin Neurophysiol Suppl** 1996; 46:243–51
Routine registration of deviations from the norm in cardiac surgery: a potent clinical research tool and quality assurance measure. Aberg T, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):10–2, 13–6
International experience with the CardioWest total artificial heart as a bridge to heart transplantation. Arabia FA, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S5–10
Re–do cardiac surgery in patients over 70 years old. Awad WI, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):40–6
Is the Parsonnet's score a good predictive score of mortality in adult cardiac surgery: assessment by a French multicentre study. Gabrielle F, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):406–14
A predictive parameter in patients with brain related complications after cardiac surgery? Isgro F, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):640–4
Axillary artery cannulation for cardiopulmonary bypass in the presence of diseased ascending aorta [letter] Isomura T, et al. **Eur J Cardiothorac Surg** 1996;10(6):481
Systemic candidiasis in cardiac surgery patients. Michalopoulos A, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):728–31
Short–term and long–term neuropsychological consequences of cardiac surgery with extracorporeal circulation. Vingerhoets G, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):424–31
The clinical and pathologic manifestations of iatrogenically produced mesothelium–rich fragments of operative debris. Walley VM, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):328–32 (8 ref.)
Transatrial access for left atrial pressure monitoring in cardiac surgery patients. Zahorec R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):379–80

QT dispersion as a marker of risk in patients awaiting heart transplantation. Pinsky DJ, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1576–84

Etiologic diagnosis of pericardial disease: the value of routine tests during surgical procedures. Mueller XM, et al. **J Am Coll Surg** 1997 Jun;184(6):645–9

Characterization and surgical resection of an organized pericardial hematoma assisted by transesophageal echocardiography. Kimura BJ, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):712–5

Cardiac pacing following surgery for acquired heart disease. Del Rizzo DF, et al. **J Card Surg** 1996 Sep–Oct; 11(5):332–40

Surgical management of endocarditis–induced aorto–atrial and aorto–ventricular fistula: a new technique. Gharagozloo F, et al. **J Cardiovasc Surg (Torino)** 1997 Apr; 38(2):131–5

High risk cardiac surgery in Jehovah's Witnesses. Grebenik CR, et al. **J Cardiovasc Surg (Torino)** 1996 Oct;37(5):511–5

Prospective evaluation of verbal memory performance after cardiopulmonary bypass surgery. Vingerhoets G, et al. **J Clin Exp Neuropsychol** 1996 Apr;18(2):187–96

Symptom distress three months after heart transplantation. Jalowiec A, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):604–14

10th Goretex chorda anniversary [editorial] Frater RW. **J Heart Valve Dis** 1996 Jul;5(4):348–51

Delirium after cardiac surgery: a critical review. van der Mast RC, et al. **J Psychosom Res** 1996 Jul;41(1):13–30

Dynamic myoplasty: surgical transfer and stimulation of skeletal muscle for functional substitution or enhancement. Grandjean P, et al. **J Rehabil Res Dev** 1996 Apr; 33(2):133–44 (30 ref.)

S–100 protein release in a range of cardiothoracic surgical procedures. Kumar P, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):953–4

Does successful bridging with the implantable left ventricular assist device affect cardiac transplantation outcome? Massad MG, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1275–81; discussion 1282–3

Cardiologists broaden use of stents [news] Goldsmith MF. **JAMA** 1997 Jan 22–29;277(4):275–6

Cardiac transplantation in New Zealand: eight years experience. Lund M, et al. **N Z Med J** 1997 Apr 25; 110(1042):139–42

Cardiac echinococcsis with multivisceral involvement. Uysalel A, et al. **Pediatr Cardiol** 1996 Jul–Aug;17(4):268–70

Surgical management of catheter tip thrombus: surgical therapy for right atrial thrombus and fungal endocarditis (Candida tropicalis) complicating paediatric sickle–cell disease. Hollingsed MJ, et al. **Perfusion** 1997 May; 12(3):197–201

Endoscopic monitoring of operative procedures during cardiac surgery. Miyagawa H, et al. **Surg Today** 1997; 27(5):434–8

Cost analysis of early extubation after coronary bypass surgery. Lee JH, et al. **Surgery** 1996 Oct;120(4):611–7; discussion 617–9

Tissue and cellular oxygenation state measurement during cardiac surgery [letter; comment] Wollert HG, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):158–60. Comment on: Thorac Cardiovasc Surg 1995 Oct;43(5):260–4.

[Successful heart transplantation in long–term ventilated patients (see comments)] Brouwer MH, et al. **Ned Tijdschr Geneeskd** 1996 Nov 23;140(47):2353–5 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2321–2. Comment in: Ned Tijdschr Geneeskd 1997 Feb 15;141(7):353–5. **(Dut)**

[CardioWest, a complete artificial heart, the French experience] Pavie A, et al. **Chirurgie** 1997 Jan; 121(9–10):685–9 (Eng. Abstr.) **(Fre)**

[A new probe holding device for continuous bilateral measurements of blood flow velocity in basal brain vessels] Gehring H, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):355–9 (Eng. Abstr.) **(Ger)**

[May elderly patients be denied heart surgery? Risk analysis and follow–up of patients over 80 years of age] Deiwick M, et al. **Fortschr Med** 1996 Mar 10;114(7):33–7 **(Ger)**

[Lung and heart–lung transplantation] Wagner TO, et al. **Internist (Berl)** 1996 Mar;37(3):272–82 (35 ref.) **(Ger)**

[Heart operations in patients older than 75. Results and postoperative rehabilitation] Aebert H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1018–20 (Eng. Abstr.) **(Ger)**

[Value of score systems in heart surgery] Falk V, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:303–6 (18 ref.) (Eng. Abstr.) **(Ger)**

[Heart surgery in elderly patients] Klövekorn WP. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1009–12 **(Ger)**

[What treatment expectations does the elderly patient have from surgery and what can surgery achieve—from the viewpoint of heart surgery] Körfer R, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:434–8 (Eng. Abstr.) **(Ger)**

[Importance of current methods in interventional cardiology and heart surgery (editorial)] Meier B. **Schweiz Rundsch Med Prax** 1997 Apr 16;86(16):647–8 **(Ger)**

[Calibration of clinical databanks with "virtual patients"] Vahl CF, et al. **Z Kardiol** 1997 Jan;86(1):35–41 (Eng. Abstr.) **(Ger)**

[Microbiology of the sternal wound] von Graevenitz A. **Zentralbl Chir** 1996;121 Suppl:22–4 **(Ger)**

[Plasmapheresis and intraoperative hemodilution. Comparison of 2 methods] Sonzogni V, et al. **Minerva Anestesiol** 1995 Jul–Aug;61(7–8):293–7 (Eng. Abstr.) **(Ita)**

[Anesthesia for patients with heart diseases] Aze M. **Masui** 1996 Dec;45 Suppl:S179–86 (21 ref.) **(Jpn)**

[Anesthesia and intraoperative care of patients with heart dysfunction] Ueda N, et al. **Masui** 1996 Dec;45 Suppl:S114–21 (24 ref.) **(Jpn)**

[The role of prolonged cardiac pacing in management of secondary bradyarrhythmias based on personal experiences] Lelakowski J, et al. **Wiad Lek** 1996; 49(7–12):116–23 (Eng. Abstr.) **(Pol)**

[State of the hypophyseal–adrenal system during surgical correction of heart defects under various anesthesiological methods and at distant periods after surgery] Litasova EE, et al. **Anesteziol Reanimatol** 1997 Mar–Apr;(2):33–6 (Eng. Abstr.) **(Rus)**

[The state of the hypophyseal–adrenal system during surgical correction of heart diseases under conditions of different anesthesia and in distant periods after surgery] Litasova EE, et al. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):58–60 (Eng. Abstr.) **(Rus)**

[Sanatorium rehabilitation of cardiosurgical patients] Kosov VA, et al. **Klin Med (Mosk)** 1997;75(8):40–4 (Eng. Abstr.) **(Rus)**

[Early therapeutic intervention: thromboendarterectomy and percutaneous transluminal angioplasty] Gil–Peralta A. **Neurologia** 1995 Dec;10 Suppl 2:55–61 (30 ref.) (Eng. Abstr.) **(Spa)**

THERAPY

Cardiac disease in chronic uremia: management. Venkatesan J, et al. **Adv Ren Replace Ther** 1997 Jul;4(3):249–66 (152 ref.)

Effectiveness of cardiac transplantation for primary (AL) cardiac amyloidosis. Pelosi F Jr, et al. **Am J Cardiol** 1997 Feb 15;79(4):532–5

The best hospitals in the USA for patients with heart disease [editorial] Roberts WC. **Am J Cardiol** 1996 Nov 15; 78(10):1188–91

Publications concerning costs of various cardiovascular procedures and drugs. Talley JD, et al. **Am J Cardiol** 1997 Jan 1;79(1):70–2

Clinical outcomes, quality of life, and cost outcomes after cardiac transplantation. Hershberger RE. **Am J Med Sci** 1997 Sep;314(3):129–38

Right atrial thrombi: percutaneous mechanical thrombectomy. Beregi JP, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):142–5

Cardiology. Jones J, et al. **Emerg Med Clin North Am** 1997 May;15(2):341–63 (65 ref.)

Endothelial dysfunction in heart transplanted patients with graft vasculopathy. Mugge A, et al. **Eur Heart J** 1995 Oct; 16 Suppl J:78–83

Do magnetic resonance techniques contribute to the management of clinical problems? van der Wall EE. **Eur Heart J** 1996 May;17(5):666–73 (25 ref.)

Permanent pacemaker use after cardiac transplantation: completing the audit cycle. Holt ND, et al. **Heart** 1996 Nov;76(5):435–8

Do we practice geriatric cardiology? [editorial] Parmley WW. **J Am Coll Cardiol** 1997 Jan;29(1):217–8

Reimbursement for cardiac rehabilitation services [letter; comment] Wenger NK. **J Am Coll Cardiol** 1997 Feb; 29(2):473. Comment on: J Am Coll Cardiol 1986 Feb;7(2):451–3.

Management of mobile right atrial thrombi: a therapeutic dilemma. Shah CP, et al. **J Card Surg** 1996 Nov–Dec; 11(6):428–31

Validity of rating of perceived exertion during graded exercise testing in apparently healthy adults and cardiac patients. Whaley MH, et al. **J Cardiopulm Rehabil** 1997 Jul–Aug;17(4):261–7

Telemedicine in emergency home care—the Shahal' experience. Roth A, et al. **J Telemed Telecare** 1997;3 Suppl 1:58–60

Collaboration between a referring hospital and a tertiary care center in improving the transfer process for cardiac patients. Sivaram CA, et al. **Jt Comm J Qual Improv** 1996 Dec;22(12):795–800

North American Society of Pacing and Electrophysiology 18th annual scientific sessions. New Orleans, Louisiana, May 7–10, 1997. Abstracts. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 2):1050–235

Cardiac Electrophysiology: The Duke Perspective. Proceedings of a symposium. Durham, North Carolina, April 26–28, 1996. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):381–606

Cardiac emergencies in children. Schamberger MS. **Pediatr Ann** 1996 Jun;25(6):339–44 (12 ref.)

Prolonged extracorporeal life support for bridging to transplant: technical and mechanical considerations. Frazier EA, et al. **Perfusion** 1997 Mar;12(2):93–8

Phototherapeutic effects in hamsters with heart disease. Natelson BH, et al. **Physiol Behav** 1996 Aug;60(2):463–8

[Interventions on the heart in elderly patients—between feasible and sensible. Professor R. von Essen on the topic of interventional cardiology and heart operations in elderly patients (interview by Dr. rer. nat. Anita Schweiger)] von Essen R. **Fortschr Med** 1996 Mar 10;114(7):20–2 **(Ger)**

[Importance of current methods in interventional cardiology and heart surgery (editorial)] Meier B. **Schweiz Rundsch Med Prax** 1997 Apr 16;86(16):647–8 **(Ger)**

[Modification of the detection and stimulation behavior of active and passive fixed bipolar pacemaker electrodes by depot dexamethasone] Burkhardt D, et al. **Z Kardiol** 1997 Jul;86(7):530–7 (Eng. Abstr.) **(Ger)**

[High incidence of isolator fractures in transvenous implantation of cardioverter defibrillators] Mewis C, et al. **Z Kardiol** 1997 Feb;86(2):85–94 (Eng. Abstr.) **(Ger)**

[Legal implications, patient education responsibilities for referring and treating physicians] Ulsenheimer K. **Z Kardiol** 1996 Aug;85(8):529–36 (29 ref.) **(Ger)**

[Point of view of the hospital cardiologist on the role of the physician working outside the hospital in cardiology care] Giovannini E. **Cardiologia** 1995 Dec;40(12 Suppl 1):605–8 **(Ita)**

[Cardiac emergencies in the community] Lotto A. **Cardiologia** 1997 Apr;42(4):347–9 (10 ref.) **(Ita)**

[Role of the general physician in cardiology care] Pagni A. **Cardiologia** 1995 Dec;40(12 Suppl 1):601–2 **(Ita)**

[Analysis of the DRG rate system in cardiology. Results of a comparative study of diverse regions] Brizioli E, et al. **Minerva Cardioangiol** 1996 Nov;44(11):555–62 (Eng. Abstr.) **(Ita)**

[Contribution of molecular biology to cardiovascular surgery] Sawa Y, et al. **Kyobu Geka** 1997 Jan;50(1):9–12 (11 ref.) **(Jpn)**

[Thrombus in the right ventricle in an infant—a good result of thrombolytic therapy with recombinant tissue plasminogen activator] Aleszewicz–Baranowska J, et al. **Przegl Lek** 1997;54(3):201–3 (Eng. Abstr.) **(Pol)**

ULTRASONOGRAPHY

The role of echocardiography in the evaluation of patients with ischemic stroke. Di Pasquale G, et al. **Acta Neurol Belg** 1996 Dec;96(4):322–8 (72 ref.)

Heart disease in Friedreich's ataxia: a clinical and echocardiographic study. Günal N, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):308–11

Echinococcosis of the heart: clinical and echocardiographic features in 19 patients. Bashour TT, et al. **Am Heart J** 1996 Nov;132(5):1028–30

Usefulness of combined color Doppler/contrast in providing complete delineation of left ventricular cavity. Agrawal G, et al. **Am J Cardiol** 1997 Jul 1;80(1):98–101

Prevalence of echocardiographic findings in 554 men and in 1,243 women aged > 60 years in a long–term health care facility. Aronow WS, et al. **Am J Cardiol** 1997 Feb 1;79(3):379–80

Thromboembolic risks of left atrial thrombus detected by transesophageal echocardiogram. Leung DY, et al. **Am J Cardiol** 1997 Mar 1;79(5):626–9

Role of transesophageal echocardiography in the management of thromboembolic stroke. Manning WJ. **Am J Cardiol** 1997 Aug 28;80(4C):19D–28D; discussion 35D–39D (78 ref.)

Evaluation of color kinesis, a new echocardiographic method for analyzing regional wall motion in patients with dilated left ventricles. Vandenberg BF, et al. **Am J Cardiol** 1997 Mar 1;79(5):645–50

Utilization of echocardiography by internists and cardiologists: a comparative study. Calenda P, et al. **Am J Med** 1996 Dec;101(6):584–91

Transesophageal echocardiography. Zitkus BS. **Am J Nurs** 1997 Sep;97(9):17–8

The utility of dobutamine echocardiography in preoperative evaluation for elective aortic surgery. Shafritz R, et al. **Am J Surg** 1997 Aug;174(2):121–5

Left atrial spontaneous echo contrast in asymptomatic patients with a mechanical valve prosthesis [see comments] Lee TM, et al. **Ann Thorac Surg** 1996 Dec;62(6):1790–5. Comment in: Ann Thorac Surg 1997 Jun;63(6):1826–7.

Utility of TEE for the evaluation of cerebral ischemia of uncertain origin [letter; comment] Stein JH, et al. **Arch Intern Med** 1997 Feb 24;157(4):460–2. Comment on: Arch Intern Med 1996 Aug 12–26;156(15):1719–23.

Transoesophageal echocardiography in anaesthesia and intensive care [editorial] [see comments] Townend JN, et al. **Br J Anaesth** 1996 Aug;77(2):137–9. Comment in: Br J Anaesth 1996 Nov;77(5):700.

Open–access echocardiography [letter; comment] Clubb AS, et al. **Br J Gen Pract** 1996 Feb;46(403):122. Comment on: Br J Gen Pract 1995 Oct;45(399):517–9.

Transthoracic echocardiography in young patients with acute retinal arterial obstruction. RECO Study Group. Retinal Emboli of Cardiac Origin Group. Sharma S, et al. **Can J Ophthalmol** 1997 Feb;32(1):38–41

Value of three–dimensional echocardiography as an adjunct to conventional transesophageal echocardiography. Binder T, et al. **Cardiology** 1996 Jul–Aug;87(4):335–42

Venous air embolism. Echocardiographic diagnosis of air bubbles in the left side of the heart in a patient with a previously diagnosed intrapulmonary shunt. McGill MP, et al. **Chest** 1997 Mar;111(3):826–8

Diagnosis of left atrial thrombus with the aid of transesophageal echocardiography during aortic valve replacement: a case report. Wang CH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar;59(3):186–9

ACC/AHA Guidelines for the Clinical Application of Echocardiography. A report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee on Clinical Application of Echocardiography). Developed in colloboration with the American Society of Echocardiography. Cheitlin MD, et al. **Circulation** 1997 Mar 18;95(6):1686–744

Automated cardiac output measurement by spatiotemporal integration of color Doppler data. In vitro and clinical validation. Sun JP, et al. **Circulation** 1997 Feb 18; 95(4):932–9

Unmasking the origin of a pseudo-left atrial mass [letter; comment] Tam JW, et al. **Circulation** 1996 Dec 1; 94(11):2990–1. Comment on: Circulation 1996 Feb 15;93(4):836.

QT interval in cardiac amyloidosis [see comments] Parthenakis FI, et al. **Clin Cardiol** 1996 Jan;19(1):51–4. Comment in: Clin Cardiol 1996 May;19(5):A22, 442.

Echocardiographic findings, lipids and lipoprotein(a) in patients with systemic lupus erythematosus. Rantapää–Dahlqvist S, et al. **Clin Rheumatol** 1997 Mar; 16(2):140–8

Stress echocardiography, contrast echocardiography, and tissüe characterization: applications for the future. Aronson S, et al. **Crit Care Clin** 1996 Apr;12(2):429–50 (74 ref.)

Transesophageal echocardiographic assessment of embolic sources: intracardiac and extracardiac masses and aortic degenerative disease. DeRook FA, et al. **Crit Care Clin** 1996 Apr;12(2):273–94 (106 ref.)

Critical appraisal of transesophageal echocardiography: limitations and pitfalls. Khandheria BK, et al. **Crit Care Clin** 1996 Apr;12(2):235–51 (23 ref.)

Multiplane transesophageal echocardiography: examination technique, anatomic correlations, and image orientation. Khandheria BK, et al. **Crit Care Clin** 1996 Apr;12(2):203–33 (15 ref.)

Echocardiographic findings in Eldoret: retrospective study. Anabwani GM, et al. **East Afr Med J** 1996 Nov; 73(11):714–6

Cardiovascular involvement during HIV infection [letter] Valdes EF, et al. **Eur Heart J** 1996 Oct;17(10):1605

Tissue Doppler echocardiography [editorial] Erbel R, et al. **Heart** 1996 Sep;76(3):193–6

Cardiac echinococcosis—a rare echocardiographic diagnosis. Siwach SB, et al. **Heart** 1997 Apr;77(4):378–9

Does Doppler myocardial imaging give new insights or simply old information revisited? [editorial] Sutherland GR, et al. **Heart** 1996 Sep;76(3):197–9

Ball thrombus in the left ventricle. Woldman S, et al. **Heart** 1996 Sep;76(3):242

Spontaneous echo contrast and thromboembolism. Ansari A, et al. **Hosp Pract (Off Ed)** 1997 Jan 15;32(1):109–11, 115–6 (12 ref.)

Prevalence and clinical significance of left atrial thrombus in nonrheumatic atrial fibrillation. Tsai LM, et al. **Int J Cardiol** 1997 Jan 31;58(2):163–9

Cardiac aspergillosis: importance of transesophageal echocardiography [letter] Blanc–Jouvan M, et al. **Intensive Care Med** 1996 Dec;22(12):1462

ACC/AHA guidelines for the clinical application of echocardiography: executive summary. A report of the American College of Cardiology/American Heart Association Task Force on practice guidelines (Committee on Clinical Application of Echocardiography). Developed in collaboration with the American Society of Echocardiography. Cheitlin MD, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):862–79

Qualitative or quantitative assessment of spontaneous echo contrast? [letter; comment] Fatkin D, et al. **J Am Coll Cardiol** 1997 Jan;29(1):222–4. Comment on: J Am Coll Cardiol 1996 Jul;28(1):222–31.

Extension of hemorrhage after reperfusion of occluded coronary artery: contrast echocardiographic assessment in dogs. Shishido T, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):585–91

Anomalously placed papillary muscle masquerading as a left ventricular apical mass. Almahmeed W, et al. **J Am Soc Echocardiogr** 1997 Apr;10(3):228–30

Characterization and surgical resection of an organized pericardial hematoma assisted by transesophageal echocardiography. Kimura BJ, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):712–5

The development of valvular strands during thrombolytic therapy detected by transesophageal echocardiography. Narins CR, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec; 9(6):888–90

Intracardiac thrombi associated with antiphospholipid antibodies. Plein D, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):891–3

Canadian consensus recommendations for the measurement and reporting of diastolic dysfunction by echocardiography: from the Investigators of Consensus on Diastolic Dysfunction by Echocardiography. Rakowski H, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):736–60 (93 ref.)

Atrial and pulmonary mass: intracardiac thrombus mimicking myxoma on multiplane transesophageal echocardiography. Robinson NM, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb; 10(1):93–6

Left atrial appendage thrombus in atrial flutter with no associated heart disease. Sasson Z, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):730–2

The role of transthoracic echocardiography in the management of patients seen in an outpatient cardiology clinic. Waggoner AD, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):761–8

Transesophageal echocardiographic features and management of retained intracardiac air in two patients after surgery. Wellford AL, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):182–6 (8 ref.)

Management of mobile right atrial thrombi: a therapeutic dilemma. Shah CP, et al. **J Card Surg** 1996 Nov–Dec; 11(6):428–31

Early detection of left atrial thrombus in acute cardiogenic cerebral embolism by transesophageal echocardiography. Doi H, et al. **J Cardiol** 1997 May;29(5):277–82

An unusual left ventricular transesophageal echocardiogram. Suriani RJ. **J Cardiothorac Vasc Anesth** 1997 Jun; 11(4):528–9

Effect size and experimental power analysis in a paediatric cardiology telemedicine system. Rendina MC, et al. **J Telemed Telecare** 1997;3 Suppl 1:56–7

Transoesophageal echocardiography. Sanderson JE, et al. **Postgrad Med J** 1997 Mar;73(857):137–40 (26 ref.)

Echocardiographic diagnosis of heart disease in Uganda. Freers J, et al. **Trop Doct** 1996 Jul;26(3):125–8

Two decades of transesophageal phased array probes. Djoa KK, et al. **Ultrasound Med Biol** 1996;22(1):1–9 (23 ref.)

[The role of echocardiography in patients with cerebrovascular stroke] Chlumský J. **Vnitr Lek** 1996 Aug; 42(8):561–3 (14 ref.) (Eng. Abstr.) **(Cze)**

[Prognostic values of echocardiography compared with clinical variables in suspected heart disease. Multivariate analysis of long–term prognosprognosis in 456 patients] Madsen BK, et al. **Ugeskr Laeger** 1996 Sep 16; 158(38):5296–9 (Eng. Abstr.) **(Dan)**

[Dynamic three–dimensional cardiac reconstruction by transesophageal echocardiography. A clinical experience apropos of 100 cases] Vuille C, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):217–24 (Eng. Abstr.) **(Fre)**

[Diagnostic advantage by transthoracic and transesophageal echocardiography in acute ischemic infarct. A contribution to indications for transesophageal echocardiography] Marx P, et al. **Fortschr Neurol Psychiatr** 1996 Aug;64(8):307–11 (Eng. Abstr.) **(Ger)**

[3–D echocardiography: technical toy in search of a clinical application or logical evolution of diagnostic equipment?] Flachskampf FA, et al. **Z Kardiol** 1997 May;86(5):336–45 (53 ref.) (Eng. Abstr.) **(Ger)**

[Transthoracic and transesophageal echocardiography] Pepi M. **Cardiologia** 1996 Jul;41(7):593–4 **(Ita)**

[Three–dimensional transesophageal echocardiography: a new cardiologic diagnostic tool. Initial experience with 150 patients] Greco C, et al. **G Ital Cardiol** 1997 Jan;27(1):55–63 (Eng. Abstr.) **(Ita)**

[Transesophageal echocardiography. A critical appraisal. How to avoid false diagnoses] Almeida J, et al. **Rev Port Cardiol** 1996 Nov;15(11):775–83, 771 (Eng. Abstr.) **(Por)**

[Transesophageal echocardiographic analysis of the spectral two– dimensional ultrasonic characterization of masses in the left atrium] Coucelo J, et al. **Rev Port Cardiol** 1996 Nov;15(11):807–11 **(Por)**

[Transesophageal echocardiography in patients treated with ventilation at a polyvalent intensive care unit] Marcelino P, et al. **Rev Port Cardiol** 1997 Mar;16(3):259–63, 241 (Eng. Abstr.) **(Por)**

[The deep veins of the lower extremities studied by ultrasonic dopplerography in patients with anomalously positioned chordae tendineae] Domnitskaia TM. **Ter Arkh** 1997; 69(4):22–3 **(Rus)**

[Transesophageal echocardiography in Panamá. Experience in 30 months] Pichel DR, et al. **Rev Med Panama** 1996 Jan–May;21(1–2):11–7 (Eng. Abstr.) **(Spa)**

[Fetal cardiology. A new specialty with great diagnostic and therapeutic possibilities] Sonesson SE, et al. **Lakartidningen** 1997 Sep 10;94(37):3145–50 **(Swe)**

VETERINARY

Preferences of veterinarians for drugs to treat heart disease in dogs and cats. Watson AD, et al. **Aust Vet J** 1995 Nov; 72(11):401–3

Mineralization of the bulbus arteriosus in adult rainbow trout (Oncorhynchus mykiss). Heidel JR, et al. **J Vet Diagn Invest** 1997 Apr;9(2):213–6

Electron microscopic demonstration of an adenovirus in the hepatocytes of birds experimentally infected with hydropericardium syndrome. Chandra R, et al. **Vet Rec** 1997 Jan 18;140(3):70–1

Testing for heart disease in dogs [letter] Darke P, et al. **Vet Rec** 1997 Mar 15;140(11):291–2

Multiple congenital cardiac anomalies and idiopathic thoracic aortitis in a horse. Reppas GP, et al. **Vet Rec** 1996 Jan 6;138(1):14–6

VIROLOGY

Coxsackie B viruses and human heart disease. Baboonian C, et al. **Curr Top Microbiol Immunol** 1997;223:31–52 (110 ref.)

Coxsackie B virus in the etiology of heart diseases in Delhi. Gupta HL, et al. **J Commun Dis** 1995 Dec;27(4):223–8

Significance of the adenine nucleotide translocator in the pathogenesis of viral heart disease. Schultheiss HP, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:319–27

[The heart and AIDS] Bouramoue C, et al. **Med Trop (Mars)** 1996;56(3 Suppl):33–9 **(Fre)**

HEART ENLARGEMENT see **HEART HYPERTROPHY**

HEART FAILURE, CONGESTIVE

Etiology and characteristics of congestive heart failure in blacks. Mathew J, et al. **Am J Cardiol** 1996 Dec 15; 78(12):1447–50

Hospital readmissions for elderly patients with congestive heart failure [letter; comment] Cheng TO. **Arch Intern Med** 1997 Jun 23;157(12):1393. Comment on: Arch Intern Med 1997 Jan 13;157(1):99–104.

Advances and stagnations in heart failure [editorial; comment] Goldberg RJ, et al. **Arch Intern Med** 1997 Jan 13;157(1):17–9. Comment on: Arch Intern Med 1997 Jan 13;157(1):99–104.

Readmission after hospitalization for congestive heart failure among Medicare beneficiaries [see comments] Krumholz HM, et al. **Arch Intern Med** 1997 Jan 13;157(1):99–104. Comment in: Arch Intern Med 1997 Jan 13;157(1):17–9. Comment in: Arch Intern Med 1997 Jun 23;157(12):1393.

Report of the National Heart, Lung, and Blood Institute Special Emphasis Panel on Heart Failure Research. Cohn JN, et al. **Circulation** 1997 Feb 18;95(4):766–70

BNP: increasing importance in the pathophysiology and diagnosis of congestive heart failure [editorial; comment] Grantham JA, et al. **Circulation** 1997 Jul 15;96(2):388–90 . Comment on: Circulation 1997 Jul 15;96(2):509–16.

Cardiac failure. **Curr Opin Cardiol** 1997 May;12(3):B67–91

Skeletal muscle contractile characteristics and fatigue resistance in patients with chronic heart failure. Harridge SD, et al. **Eur Heart J** 1996 Jun;17(6):896–901

Chronic heart failure: a multisystem syndrome [editorial; comment] Piepoli M, et al. **Eur Heart J** 1996 Dec; 17(12):1777–8 (8 ref.). Comment on: Eur Heart J 1996 Dec;17(12):1860–6.

Congestive heart failure: diagnosis and management. Kothari SS. **Indian Pediatr** 1996 Jul;33(7):571–80 (31 ref.)

Tumour necrosis factor is expressed in cardiac tissues of patients with heart failure. Doyama K, et al. **Int J Cardiol** 1996 Jun;54(3):217–25

Predictors of sudden death and death from pump failure in congestive heart failure are different. Analysis of 24 h Holter monitoring, clinical variables, blood chemistry, exercise test and radionuclide angiography. Madsen BK, et al. **Int J Cardiol** 1997 Jan 31;58(2):151–62

Congestive heart failure and arrhythmias: therapeutic modalities. Singh SN. **J Cardiovasc Electrophysiol** 1997 Jan; 8(1):89–97 (61 ref.)

Metabolic, functional, and haemodynamic staging for CHF? Anker SD, et al. **Lancet** 1996 Dec 7;348(9041):1530–1

Congestive heart failure in elderly patients. Senni M, et al. **Mayo Clin Proc** 1997 May;72(5):453–60 (12 ref.)

What's in a name? [see comments] O'Rourke MF. **Med J Aust** 1997 Apr 7;166(7):372–3. Comment in: Med J Aust 1997 Aug 4;167(3):175. Comment in: Med J Aust 1997 Aug 4;167(3):175–6.

Diagnosis and management of heart failure in the elderly [see comments] King D. **Postgrad Med J** 1996 Oct; 72(852):577–80 (27 ref.). Comment in: Postgrad Med J 1997 Mar;73(857):189–90.

Heart failure: the Cinderella of cardiology? McKinnon ME, et al. **Public Health** 1996 Nov;110(6):351–5 (64 ref.)

Heart failure: the Cinderella of cardiology? [letter] Morrison C, et al. **Public Health** 1997 Sep;111(5):351–4

[Clinical aspects of acute heart failure] Horký K. **Vnitr Lek** 1996 Jul;42(7):470–6 (16 ref.) (Eng. Abstr.) **(Cze)**

[Acute and chronic heart failure] Stejfa M, et al. **Vnitr Lek** 1997 Feb;43(2):105–10 (11 ref.) (Eng. Abstr.) **(Cze)**

[Trends—ACE inhibition improves coronary dysfunction. Symposium within the scope of the American Heart Association Congress, Anaheim, November 1995] Müller–Lissner S. **Internist (Berl)** 1996 Mar;37(3):328–9 **(Ger)**

[On quality of life] Majani G. **G Ital Cardiol** 1996 Jun; 26(6):689–97 **(Ita)**

[The concept of quality of life in cardiac failure] Cafagna D, et al. **Minerva Med** 1997 Apr;88(4):151–62 (55 ref.) (Eng. Abstr.) **(Ita)**

[Hypertensive heart failure] Nishikimi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):42–5 (15 ref.) **(Jpn)**

[Bernheim's syndrome] Sakuma M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):7–9 (24 ref.) **(Jpn)**

[Hegglin's syndrome] Sato N, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):10–2 (7 ref.) **(Jpn)**

[Heart failure (acute heart failure, chronic heart failure; left ventricular failure, right ventricular failure; systolic heart failure, diastolic heart failure; high output heart failure, low output heart failure)] Yoshimi H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):107–9 (10 ref.) **(Jpn)**

[Heart failure—a concept in evolution] Brandão F, et al. **Rev Port Cardiol** 1996 Oct;15(10):711–4 **(Por)**

[Guidelines for diagnosis and treatment of congestive heart

failure and shock (DRG 127)] **Rev Esp Cardiol** 1997;50 Suppl 1:1–51 **(Spa)**

[Care of heart failure may be better] Rydén L. **Lakartidningen** 1997 Jun 18;94(25):2369–72 (7 ref.) **(Swe)**

BLOOD

Circulating noradrenaline and beta-adrenergic receptors in children with congestive heart failure. Wu JR, et al. **Acta Paediatr** 1996 Aug;85(8):923–7

Detectable serum troponin I in patients with heart failure of nonmyocardial ischemic origin. La Vecchia L, et al. **Am J Cardiol** 1997 Jul 1;80(1):88–90

Circulating interleukin-6 in severe heart failure. MacGowan GA, et al. **Am J Cardiol** 1997 Apr 15;79(8):1128–31

Serum levels of soluble form of Fas molecule in patients with congestive heart failure. Okuyama M, et al. **Am J Cardiol** 1997 Jun 15;79(12):1698–701

Pharmacologically induced heart failure for the evaluation of circulatory assistance. Schmidt C, et al. **Artif Organs** 1996 Jun;20(6):685–8

Isolation of "myocardial depressant factor(s)" from the ultrafiltrate of heart failure patients with acute renal failure. Blake P, et al. **ASAIO J** 1996 Sep–Oct;42(5):M911–5

The effect of the neutral endopeptidase inhibitor drug, candoxatril, on circulating levels of two of the most potent vasoactive peptides. McDowell G, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):329–32

Plasma endothelin in congestive heart failure: effect of the ACE inhibitor, fosinopril. Galatius-Jensen S, et al. **Cardiovasc Res** 1996 Dec;32(6):1148–54

The clinical relevance of circulating tumor necrosis factor-alpha in acute decompensated chronic heart failure without cachexia. Milani RV, et al. **Chest** 1996 Oct; 110(4):992–5

Plasma beta-endorphin response to exercise in patients with congestive heart failure. Perna GP, et al. **Chest** 1997 Jan; 111(1):19–22

Elevated plasma levels of human adrenomedullin in cardiovascular, respiratory, hepatic and renal disorders. Cheung B, et al. **Clin Sci (Colch)** 1997 Jan;92(1):59–62

Prognostic value of plasma endothelin-1 in patients with chronic heart failure. Pousset F, et al. **Eur Heart J** 1997 Feb;18(2):254–8

Cytokine profile in chronic cardiac failure. Steele IC, et al. **Eur J Clin Invest** 1996 Nov;26(11):1018–22

Responses of atrial natriuretic peptide and brain natriuretic peptide to exercise in patients with chronic heart failure and normal control subjects. Steele IC, et al. **Eur J Clin Invest** 1997 Apr;27(4):270–6

Plasma proadrenomedullin N-terminal 20 peptide (PAMP) in patients with congestive heart failure. Etoh T, et al. **Horm Metab Res** 1997 Jan;29(1):46–7

Acute effects of digitalis and enalapril on the neurohormonal profile of chagasic patients with severe congestive heart failure. Khoury AM, et al. **Int J Cardiol** 1996 Nov 15; 57(1):21–9

Elevated plasma levels of tumor necrosis factor in chronic heart failure with cachexia. Zhao SP, et al. **Int J Cardiol** 1997 Feb;58(3):257–61

Prognostic value of cardiac troponin T after noncardiac surgery: 6-month follow-up data. Lopez-Jimenez F, et al. **J Am Coll Cardiol** 1997 May;29(6):1241–5

Role of cytokines in the mechanism of action of amlodipine: the PRAISE Heart Failure Trial. Prospective Randomized Amlodipine Survival Evaluation. Mohler ER 3rd, et al. **J Am Coll Cardiol** 1997 Jul;30(1):35–41

Plasma Fas ligand, an inducer of apoptosis, and plasma soluble Fas, an inhibitor of apoptosis, in patients with chronic congestive heart failure. Nishigaki K, et al. **J Am Coll Cardiol** 1997 May;29(6):1214–20

Insulin resistance in chronic heart failure: relation to severity and etiology of heart failure. Swan JW, et al. **J Am Coll Cardiol** 1997 Aug;30(2):527–32

Circulating levels of cytokines and their endogenous modulators in patients with mild to severe congestive heart failure due to coronary artery disease or hypertension. Testa M, et al. **J Am Coll Cardiol** 1996 Oct;28(4):964–71

Plasma N-terminal atrial natriuretic factor: a predictor of survival in patients with congestive heart failure. Dickstein K, et al. **J Card Fail** 1997 Jun;3(2):83–9

Plasma endothelin in congestive heart failure: a predictor of cardiac death? Galatius-Jensen S, et al. **J Card Fail** 1996 Jun;2(2):71–6

Augmented response in plasma atrial natriuretic peptide to dynamic exercise in patients with congestive heart failure. Kato M, et al. **Jpn Circ J** 1996 Dec;60(12):909–16

Soluble tumor necrosis factor receptors are elevated in relation to severity of congestive heart failure. Nozaki N, et al. **Jpn Circ J** 1997 Aug;61(8):657–64

Plasma leptin concentrations and energy expenditure in heart failure patients. Toth MJ, et al. **Metabolism** 1997 Apr; 46(4):450–3

Clinical problem-solving — where did good old clinical diagnosis go? [letter] Glaser RJ. **N Engl J Med** 1997 Sep 25;337(13):941; discussion 942

Elevated circulating levels of von Willebrand factor and D-dimer in patients with heart failure and mechanical prosthesis. Mastroroberto P, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(2):77–81

Validation of big endothelin plasma levels compared with established neurohumoral markers in patients with severe chronic heart failure. Stanek B, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):595–6

[Clinical relevance and methodological limitations of the determination of atrial natriuretic peptide (ANP) in chronic heart failure (editorial)] Derchi G. **G Ital Cardiol** 1996 Aug; 26(8):875–7 **(Ita)**

[Effects of naloxone on plasma levels of atrial natriuretic factor and noradrenaline during water load in moderate heart failure] Tarsi G, et al. **G Ital Cardiol** 1996 Aug; 26(8):879–85 (Eng. Abstr.) **(Ita)**

[Na+/H+ metabolism in the erythrocytes of healthy subjects and in patients with chronic heart failure] Gadzhiev AB, et al. **Ter Arkh** 1995;67(12):28–9 **(Rus)**

CHEMICALLY INDUCED

Lipid lowering: an important factor in preventing adriamycin-induced heart failure. Iliskovic N, et al. **Am J Pathol** 1997 Feb;150(2):727–34

Feasibility of paclitaxel in a patient with anthracycline-induced congestive heart failure [letter] Colleoni M, et al. **Eur J Cancer** 1997 Feb;33(2):321–2

Patients with mild heart failure worsen during withdrawal from digoxin therapy. Adams KF Jr, et al. **J Am Coll Cardiol** 1997 Jul;30(1):42–8

Verapamil accelerates the transition to heart failure in obese, hypertensive, female SHHF/Mcc-fa(cp) rats. Park S, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):726–33

Clinical cardiotoxicity following anthracycline treatment for childhood cancer: the Pediatric Oncology Group experience. Krischer JP, et al. **J Clin Oncol** 1997 Apr; 15(4):1544–52

In utero congestive heart failure due to maternal indomethacin treatment for polyhydramnios and premature labour in a fetus with antenatal closure of the foramen ovale. Achiron R, et al. **Prenat Diagn** 1996 Jul;16(7):652–6

Epirubicin cardiotoxicity: a study comparing low- with high-dose-intensity weekly schedules. Berchem GJ, et al. **Support Care Cancer** 1996 Jul;4(4):308–12

Heart transplantation for doxorubicin-induced congestive heart failure in children and adolescents. Musci M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):578–9

[Heart failure and fluid retention attributed to the use of non-steroidal anti-inflammatory drugs] Feenstra J, et al. **Ned Tijdschr Geneeskd** 1996 Oct 5;140(40):2000–3 **(Dut)**

CLASSIFICATION

Classification of heart failure in population based research: an assessment of six heart failure scores. Mosterd A, et al. **Eur J Epidemiol** 1997 Jul;13(5):491–502

What is "congested" in cardiac failure? A newer approach to plain film interpretation of cardiac failure. Milne EN. **Rays** 1997 Jan–Mar;22(1):94–106 **(Eng, Ita)**

[An improved classification of chronic heart failure] Denisiuk VI. **Lik Sprava** 1995 Sep–Dec;(9–12):112–4 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Amrinone improves lung compliance in patients receiving mechanical ventilation for cardiogenic pulmonary edema. Takeda S, et al. **Acta Anaesthesiol Scand** 1997 May; 41(5):624–8

Lobular panniculitis associated with venous congestion in right-sided heart failure [letter] Husebye ES, et al. **Acta Derm Venereol** 1996 Sep;76(5):402–3

Endothelial damage in piglet brains during cardiorespiratory failure [letter; comment] Temesvári P, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):428–30. Comment on: Acta Neuropathol (Berl) 1995;90(6):582–91.

Use of morphine sulfate for acute pulmonary edema [letter; comment] Adams FB Jr. **Am Fam Physician** 1997 Apr; 55(5):1561. Comment on: Am Fam Physician 1996 Jul;54(1):245–54, 258–60.

Cardiac morphology and left ventricular function in normotensive morbidly obese patients with and without congestive heart failure, and effect of weight loss. Alpert MA, et al. **Am J Cardiol** 1997 Sep 15;80(6):736–40

Predictors of long-term survival in patients with malignant ventricular arrhythmias. Gomes JA, et al. **Am J Cardiol** 1997 Apr 15;79(8):1054–60

Dose dependence of chronic positive inotropic effect of vesnarinone in patients with congestive heart failure due to idiopathic or ischemic cardiomyopathy. Kass DA, et al. **Am J Cardiol** 1996 Sep 15;78(6):652–6

Effects of renal artery stent implantation in patients with renovascular hypertension presenting with unstable angina or congestive heart failure. Khosla S, et al. **Am J Cardiol** 1997 Aug 1;80(3):363–6

Association between diuretic use, clinical response, and death in acute heart failure. Philbin EF, et al. **Am J Cardiol** 1997 Aug 15;80(4):519–22

Chest pain, congestive heart failure, and death in a 65-year-old man [clinical conference] **Am J Med** 1997 Jan; 102(1):118–25

Bone mass, vitamin D deficiency, and hyperparathyroidism in congestive heart failure. Shane E, et al. **Am J Med** 1997 Sep;103(3):197–207

The effect of nasal continuous positive airway pressure on plasma endothelin-1 concentrations in patients with severe cardiogenic pulmonary edema. Takeda S, et al. **Anesth Analg** 1997 May;84(5):1091–6

Dyspnea in heart failure. Introduction. Kleber FX. **Basic Res Cardiol** 1996;91 Suppl 1:III

A case of large neonatal arteriovenous malformation with heart failure. Color Doppler sonography, MRI and MR angiography as early non-invasive diagnostic procedures. Hayashi T, et al. **Brain Dev** 1996 May–Jun;18(3):236–8

Arrhythmogenesis in experimental models of heart failure: the role of increased load. Pye MP, et al. **Cardiovasc Res** 1996 Aug;32(2):248–57

Prevalence of sleep-disordered breathing in diastolic heart failure. Chan J, et al. **Chest** 1997 Jun;111(6):1488–93

Cheyne-Stokes respiration during sleep in congestive heart failure. Quaranta AJ, et al. **Chest** 1997 Feb;111(2):467–73 (49 ref.)

Placebo-controlled, randomized, double-blind study of intravenous enalaprilat efficacy and safety in acute cardiogenic pulmonary edema. Annane D, et al. **Circulation** 1996 Sep 15;94(6):1316–24

The benefit of low-dose dopamine during vigorous diuresis for congestive heart failure associated with renal insufficiency: does it protect renal function? Varriale P, et al. **Clin Cardiol** 1997 Jul;20(7):627–30

Chronic congestive heart failure associated with bilateral renal artery stenosis. Ducloux D, et al. **Clin Nephrol** 1997 Jul;48(1):54–5

Effects of cilazapril on ventricular arrhythmia in patients with congestive heart failure. Hattori Y, et al. **Clin Ther** 1997 May–Jun;19(3):481–6

Congestive heart failure predicts the development of non-insulin-dependent diabetes mellitus in the elderly. The Osservatorio Geriatrico Regione Campania Group. Amato L, et al. **Diabetes Metab** 1997 Jun;23(3):213–8

Systemic thromboembolism in chronic heart failure. A prospective study in 406 patients. Cioffi G, et al. **Eur Heart J** 1996 Sep;17(9):1381–9

The importance of cachexia in the syndrome of heart failure [editorial; comment] Ferrari R. **Eur Heart J** 1997 Feb; 18(2):187–9. Comment on: Eur Heart J 1997 Feb;18(2):259–69.

Sick euthyroid syndrome in patients with moderate-to-severe chronic heart failure [see comments] Opasich C, et al. **Eur Heart J** 1996 Dec;17(12):1860–6. Comment in: Eur Heart J 1996 Dec;17(12):1777–8.

Sleep disorders and breathing alterations in patients with chronic heart failure. Traversi E, et al. **G Ital Cardiol** 1997 May;27(5):423–9

Airway and cough responsiveness and exhaled nitric oxide in non-smoking patients with stable chronic heart failure. Chua TP, et al. **Heart** 1996 Aug;76(2):144–9

Heart failure and atrial fibrillation: current concepts and controversies. Van den Berg MP, et al. **Heart** 1997 Apr; 77(4):309–13 (38 ref.)

Dysuria in an elderly man with cardiomyopathy. Perazella MA, et al. **Hosp Pract (Off Ed)** 1997 Jan 15;32(1):147–8, 153–4

Breathlessness and exercise capacity in heart failure: the role of bronchial obstruction and responsiveness. Evans SA, et al. **Int J Cardiol** 1996 Dec 13;57(3):233–40

Nocturnal enuresis in community-dwelling older adults [letter; comment] de la Vega S. **J Am Geriatr Soc** 1996 Nov;44(11):1410. Comment on: J Am Geriatr Soc 1996 Feb;44(2):139–43.

A case of acute idiopathic pericarditis with rapid relapse and cardiac tamponade in an older woman [letter] Kodama K, et al. **J Am Geriatr Soc** 1997 May;45(5):659–60

Valve replacement for aortic stenosis with severe congestive heart failure and pulmonary hypertension. Snopek G, et al. **J Heart Valve Dis** 1996 May;5(3):268–72

Congestive heart failure in old age: prevalence, mechanisms and 4-year prognosis in the Helsinki Ageing Study. Kupari M, et al. **J Intern Med** 1997 May;241(5):387–94

The acute uraemic emergency [letter] Jolobe OM. **J R Coll Physicians Lond** 1997 May–Jun;31(3):343

Ventricular arrhythmias in heart failure. Mitamura H. **Keio J Med** 1996 Mar;45(1):1–8 (71 ref.)

Acute renal failure [letter; comment] Friedman EA. **N Engl J Med** 1996 Oct 24;335(17):1321; discussion 1321–2 . Comment on: N Engl J Med 1996 May 30;334(22):1448–60.

Theophylline and sleep-disordered breathing in heart failure [letter; comment] Goggins M. **N Engl J Med** 1997 Jan 30; 336(5):379. Comment on: N Engl J Med 1996 Aug 22;335(8):562–7.

Acute renal failure following ACE inhibition in a patient with coarctation of the aorta. Sever MS, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1643–4

Congestive heart failure with tetralogy of Fallot relieved by an aortopulmonary shunt. Watson DG, et al. **Pediatr Cardiol** 1997 Sep–Oct;18(5):381–4

Inspiratory muscle training in patients with chronic heart failure awaiting cardiac transplantation: results of a pilot clinical trial. Cahalin LP, et al. **Phys Ther** 1997 Aug; 77(8):830–8

Hemodynamic and sympathoinhibitory effects of nasal CPAP in congestive heart failure. Bradley TD. **Sleep** 1996 Dec; 19(10 Suppl):S232–5 (26 ref.)

Nasal CPAP in cardiac failure: case not proven. Calverley PM. **Sleep** 1996 Dec;19(10 Suppl):S236–9 (26 ref.)

Central sleep apnea-hypopnea syndrome in heart failure: prevalence, impact, and treatment. Javaheri S. **Sleep** 1996 Dec;19(10 Suppl):S229–31

Renal transplantation in advanced cardiac failure patients. Cho WH, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):236–8

[Right ventricular failure in terminale cardiac failure: prognostic value and evaluation before transplantation assessment] Juillière Y. **Arch Mal Coeur Vaiss** 1996 Nov; 89 Spec No 6:23–5 (Eng. Abstr.) **(Fre)**

[Cement-free management of femoral neck fractures in elderly patients with poor cardiopulmonary prognosis] Knipprath J, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:981–2 (Eng. Abstr.) **(Ger)**

[Ischemic hepatitis in congestive heart failure after an episode of hypotension] Shovman O, et al. **Harefuah** 1997 Apr 1; 132(7):459–60, 527 (Eng. Abstr.) **(Heb)**

[Echocardiography in the assessment of thromboembolic risk in patients with heart insufficiency] Carerj S, et al.
Cardiologia 1995 Dec;40(12 Suppl 1):463–8 **(Ita)**

[Skeletal musculature modifications and mechanisms of fatigue in chronic heart failure] Serafini F, et al.
G Ital Cardiol 1997 Jun;27(6):603–11 (62 ref.) (Eng. Abstr.) **(Ita)**

[Lactic acidosis shock. Report of a clinical case] Venturini E, et al. **Minerva Cardioangiol** 1996 Jul–Aug;44(7–8):365–7 (Eng. Abstr.) **(Ita)**

[Left ventricular pseudoaneurysm recognized 9 years after mitral valve replacement and repeated heart failure of 3 years duration: a case report] Emoto R, et al.
J Cardiol 1996;27 Suppl 2:65–71; discussion 72 (Eng. Abstr.) **(Jpn)**

[Beta-blocker therapy in tachycardic atrial fibrillation with heart failure (letter)] Misumi K. **J Cardiol** 1996 Nov; 28(5):301–3 **(Jpn)**

[Cesarean section in a patient with uncontrolled hyperthyroidism, preeclampsia, and congestive heart failure] Kagawa T, et al. **Masui** 1996 Feb;45(2):230–4 (Eng. Abstr.) **(Jpn)**

[Treatment of ventricular arrhythmia associated with heart failure] Kasakinu H. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):80–7 (5 ref.) **(Jpn)**

[An elderly patient with Leriche syndrome complicated by congestive heart failure and rhabdomyolysis] Yabe T, et al. **Nippon Ronen Igakkai Zasshi** 1996 Jan;33(1):38–42 (Eng. Abstr.) **(Jpn)**

[Cardiogenic pulmonary edema] Gotoh K, et al.
Ryoikibetsu Shokogun Shirizu 1996;(12):95–8 (19 ref.) **(Jpn)**

[Neonatal heart failure and Marfan syndrome] Amaral FT, et al. **Arq Bras Cardiol** 1996 Nov;67(5):355–7 (Eng. Abstr.) **(Por)**

[Time organization of blood coagulation in patients with rheumatic heart disease involving circulation insufficiency] Zaslavskaia RM, et al. **Klin Med (Mosk)** 1996;74(8):25–9 (Eng. Abstr.) **(Rus)**

[The heart and the brain. Aspects of their interrelations] Bartko D, et al. **Vnitr Lek** 1996 Jul;42(7):482–9 (Eng. Abstr.) **(Slo)**

[Heart failure, arterial hypertension, and hypokalemic alkalosis] Rivero M, et al. **Rev Clin Esp** 1996 Aug; 196(8):565–6 **(Spa)**

[Sudden death in heart failure] Cosín Aguilar J, et al.
Rev Esp Cardiol 1996 Oct;49(10):732–40 (Eng. Abstr.) **(Spa)**

[Guideline 5. Acute edema of the lung (acute left heart failure)] Navarro-López F, et al. **Rev Esp Cardiol** 1997;50 Suppl 1:32–6 (Eng. Abstr.) **(Spa)**

CONGENITAL

A case of large neonatal arteriovenous malformation with heart failure. Color Doppler sonography, MRI and MR angiography as early non-invasive diagnostic procedures. Hayashi T, et al. **Brain Dev** 1996 May–Jun;18(3):236–8

Neonatal lupus erythematosus with congenital heart block and severe heart failure due to myocarditis and endocarditis of the mitral valve. Ferrazzini G, et al.
Intensive Care Med 1996 May;22(5):464–6

DIAGNOSIS

Comparison of Doppler echocardiography with thermodilution for assessing cardiac output in advanced congestive heart failure. Gola A, et al. **Am J Cardiol** 1996 Sep 15;78(6):708–12

Exercise-related ventilatory abnormalities and survival in congestive heart failure. MacGowan GA, et al.
Am J Cardiol 1997 May 1;79(9):1264–6

Assessment of systolic and diastolic LV function by MR myocardial tagging. Matter C, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:23–8 (26 ref.)

Heart failure--who should we investigate and treat? [letter; comment] Cummins A. **Br J Gen Pract** 1997 Jan;47(414):56 . Comment on: Br J Gen Pract 1996 Feb;46(403):77–9.

Heart failure in primary care [letter; comment] Khunti K. **Br J Gen Pract** 1996 Jun;46(407):373–4. Comment on: Br J Gen Pract 1996 Feb;46(403):77–9.

Heart failure in primary care [letter; comment] McElhinney A. **Br J Gen Pract** 1996 Jun;46(407):374. Comment on: Br J Gen Pract 1996 Feb;46(403):77–9.

Oxygen deficit during exercise testing [letter; comment] Simon A, et al. **Chest** 1997 Aug;112(2):567–8. Comment on: Chest 1995 Apr;107(4):904–8.

Coupling of hemodynamic measurements with oxygen during exercise does not improve risk stratification in patients with heart failure [letter] Wilson JR, et al. **Circulation** 1997 Sep 16;96(6):2095–7

Comparison of time domain and spectral turbulence analysis of the signal-averaged electrocardiogram for the prediction of prognosis in idiopathic dilated cardiomyopathy. Yi G, et al. **Clin Cardiol** 1996 Oct;19(10):800–8

Long-term recording of cardiac output via an implantable haemodynamic monitoring device. Ohlsson A, et al.
Eur Heart J 1996 Dec;17(12):1902–10

Mechanical cardiac valve thrombosis in patients in critical hemodynamic compromise. Buttard P, et al.
Eur J Cardiothorac Surg 1997 Apr;11(4):710–3

Problems and pitfalls in evaluating studies for pacing in heart failure. Auricchio A, et al. **G Ital Cardiol** 1997 Jun; 27(6):593–9 (42 ref.)

When doctor's make mistakes. Tan SY. **Hawaii Med J** 1996 Aug;55(8):135, 146

Older adults' symptoms and their duration before hospitalization for heart failure. Friedman MM.
Heart Lung 1997 May–Jun;26(3):169–76

Delayed attainment of peak oxygen consumption after the end of exercise in patients with chronic heart failure. Cohen-Solal A, et al. **Int J Cardiol** 1997 Jun 27;60(1):23–9

Interleukin-6 correlates with hemodynamic impairment during dobutamine administration in chronic heart failure. Deng MC, et al. **Int J Cardiol** 1996 Dec 6;57(2):129–34

Non-invasive prognostic factors in chronic heart failure. One-year survival of 300 patients with a diagnosis of chronic heart failure due to ischemic heart disease or dilated cardiomyopathy. Spinar J, et al. **Int J Cardiol** 1996 Oct 25;56(3):283–8

The clinical diagnosis of heart failure in older patients. Tresch DD. **J Am Geriatr Soc** 1997 Sep;45(9):1128–33 (38 ref.)

Value of right ventricular ejection fraction in predicting short-term prognosis of patients with severe chronic heart failure. Gavazzi A, et al. **J Heart Lung Transplant** 1997 Jul;16(7):774–85

Causes of congestive heart failure. Prompt diagnosis may affect prognosis. Bales AC, et al. **Postgrad Med** 1997 Jan; 101(1):44–9, 54–6 (19 ref.)

Assessing diagnosis in heart failure: which features are any use? Davie AP, et al. **QJM** 1997 May;90(5):335–9

The diagnosis and management of cardiac failure. Hillis GS, et al. **Scott Med J** 1996 Jun;41(3):72–5 (47 ref.)

Listeria monocytogenes: a rare cause of pleural effusion in a patient with congestive cardiac failure. Hood S, et al.
Scott Med J 1997 Feb;42(1):18

[Assessment of cardiac insufficiency] Righetti A.
Schweiz Rundsch Med Prax 1997 Feb 11;86(7):251–3 (Eng. Abstr.) **(Fre)**

[Evaluation of the validity of spiroergometric parameters in the differentiation of circulatory and ventilatory physical limitation] Reuter M, et al. **Pneumologie** 1997 Apr; 51(4):353–8 (Eng. Abstr.) **(Ger)**

[Cardiopulmonary stress test for the evaluation of therapeutic results in heart failure. Maximal or submaximal test?] Dei Cas L, et al. **Cardiologia** 1996 Aug;41(8):727–38 (94 ref.) **(Ita)**

[Ventilation and heart failure: evaluation parameters] Metra M, et al. **Cardiologia** 1997 Feb;42(2):215–8 **(Ita)**

[Clinical and instrumental indicators of chronic heart failure: do we know how to use them?] Opasich C, et al.
G Ital Cardiol 1997 Feb;27(2):173–80 (72 ref.) **(Ita)**

[Evaluation of exercise tolerance of patients with heart failure and its clinical significance] Ajisaka R, et al.
Nippon Naika Gakkai Zasshi 1994 Jan 10;83(1):37–41 (5 ref.) **(Jpn)**

[Bed-side evaluation of severity and heart function of patients with heart failure] Miura T, et al.
Nippon Naika Gakkai Zasshi 1994 Jan 10;83(1):31–6 (3 ref.) **(Jpn)**

[Invasive evaluation of heart function of patients with heart failure and its clinical significance] Sata M, et al.
Nippon Naika Gakkai Zasshi 1994 Jan 10;83(1):42–7 (4 ref.) **(Jpn)**

[Diagnosis of outpatients with heart failure] Shirato K.
Nippon Naika Gakkai Zasshi 1994 Jan 10;83(1):22–6 (4 ref.) **(Jpn)**

[ProANF and heart failure in general practice (letter; comment)] Hall C, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20;116(25):3048. Comment on: Tidsskr Nor Laegeforen 1996 May 20;116(13):1560–1. Comment on: Tidsskr Nor Laegeforen 1996 Aug 10;116(18):2214–5. **(Nor)**

[Anatomoclinical correlations: case 3/96 (Department of medical clinic of Faculdade de Ciências Médicas (UNICAMP)) (clinical conference)] **Arq Bras Cardiol** 1996 Sep;67(3):179–84 **(Por)**

[Anatomo-clinical correlation. Case 2/96 (Instituto do Coração do Hospital das Clínicas-FMUSP) (clinical conference)] **Arq Bras Cardiol** 1996 May;66(5):285–90 **(Por)**

[The 6 minutes test in heart failure (editorial)] de Oliveira Júnior MT, et al. **Arq Bras Cardiol** 1996 Dec;67(6):373–4 **(Por)**

[The systolic form of chronic congestive heart failure and its treatment (editorial)] Mazur NA. **Ter Arkh** 1996; 68(8):5–7 **(Rus)**

[Load tests in silent myocardial ischemia and latent heart failure in patients with IHD and intermittent claudication] Spiridonov AV, et al. **Ter Arkh** 1996;68(2):46–9 (Eng. Abstr.) **(Rus)**

[Guideline 1. Diagnosis of heart failure and ventricular dysfunction] Navarro-López F, et al. **Rev Esp Cardiol** 1997; 50 Suppl 1:3–8 (Eng. Abstr.) **(Spa)**

[Guideline 2. Etiologic diagnosis of heart insufficiency. Identification and treatment of reversible causes] Navarro-López F, et al. **Rev Esp Cardiol** 1997;50 Suppl 1:9–14 (Eng. Abstr.) **(Spa)**

DIET THERAPY

Fish oil and other nutritional adjuvants for treatment of congestive heart failure. McCarty MF. **Med Hypotheses** 1996 Apr;46(4):400–6 (120 ref.)

DRUG THERAPY

Plasma concentration and acute clinical effects of docarpamine, orally active dopamine prodrug, in infants. Tomita H, et al. **Acta Paediatr Jpn** 1996 Oct;38(5):440–3

Clinical implications of alpha 1 adrenergic blockade and angiotensin converting enzyme inhibition 'cross talk' in heart failure in Nigerians [letter] Ajayi AA, et al.
Afr J Med Med Sci 1996 Mar;25(1):95

Evaluation of treatment for congestive heart failure in patients aged 60 years and older using generic measures of health status (SF-36 and COOP charts). Jenkinson C, et al. **Age Ageing** 1997 Jan;26(1):7–13

Inotropic agents in older patients with chronic heart failure--current perspectives. Carbonin PU, et al.
Aging (Milano) 1996 Apr;8(2):90–8 (74 ref.)

A randomized controlled trial of epoprostenol therapy for severe congestive heart failure: The Flolan International Randomized Survival Trial (FIRST). Califf RM, et al.
Am Heart J 1997 Jul;134(1):44–54

Digitalis Investigation Group (DIG) trial: a stimulus for further research. Gheorghiade M, et al. **Am Heart J** 1997 Jul;134(1):3–12 (136 ref.)

Effect of amlodipine on norepinephrine kinetics and baroreflex function in patients with congestive heart failure. Goldsmith SR. **Am Heart J** 1997 Jul;134(1):13–9

Treatment with verapamil and trandolapril in patients with congestive heart failure and angina pectoris or myocardial infarction. The DAVIT Study Group. Danish Verapamil Infarction Trial. Hansen JF, et al. **Am Heart J** 1997 Aug; 134(2 Pt 2):S48–52

Intermittent inotropic therapy in an outpatient setting: a cost-effective therapeutic modality in patients with refractory heart failure. Marius-Nunez AL, et al.
Am Heart J 1996 Oct;132(4):805–8

Use of angiotensin-converting enzyme inhibitors in heart failure with preserved left ventricular systolic function. Philbin EF, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):188–95

Mitral flow velocity changes after 6 months of optimized therapy provide important hemodynamic and prognostic information in patients with chronic heart failure. Traversi E, et al. **Am Heart J** 1996 Oct;132(4):809–19

Effectiveness of spironolactone added to an angiotensin-converting enzyme inhibitor and a loop diuretic for severe chronic congestive heart failure (the Randomized Aldactone Evaluation Study [RALES]).
Am J Cardiol 1996 Oct 15;78(8):902–7

Effect of propranolol versus no propranolol on total mortality plus nonfatal myocardial infarction in older patients with prior myocardial infarction, congestive heart failure, and left ventricular ejection fraction > or = 40% treated with diuretics plus angiotensin-converting enzyme inhibitors. Aronow WS, et al. **Am J Cardiol** 1997 Jul 15;80(2):207–9

Enalapril reduces QTc dispersion in mild congestive heart failure secondary to coronary artery disease. Barr CS, et al. **Am J Cardiol** 1997 Feb 1;79(3):328–33

Reasons for underuse of angiotensin-converting enzyme inhibitors in patients with heart failure and left ventricular dysfunction. Bart BA, et al. **Am J Cardiol** 1997 Apr 15; 79(8):1118–20

Effects of amiodarone on the circadian pattern of sudden cardiac death (Department of Veterans Affairs Congestive Heart Failure-Survival Trial of Antiarrhythmic Therapy). Behrens S, et al. **Am J Cardiol** 1997 Jul 1;80(1):45–8

Effect of antithrombotic therapy on risk of sudden coronary death in patients with congestive heart failure. Dries DL, et al. **Am J Cardiol** 1997 Apr 1;79(7):909–13

Practical guidelines for initiation of beta-adrenergic blockade in patients with chronic heart failure [editorial] Eichhorn EJ, et al. **Am J Cardiol** 1997 Mar 15;79(6):794–8 (55 ref.)

Hemodynamic effects of the class III antiarrhythmic drug, d-sotalol, in patients with congestive heart failure. Gottlieb SS, et al. **Am J Cardiol** 1996 Dec 15;78(12):1411–5

Relation of functional improvement in congestive heart failure after quinapril therapy to peripheral limitation. Jondeau G, et al. **Am J Cardiol** 1997 Mar 1;79(5):635–8

Response of symptomatic myocardial ischemia in ischemic cardiomyopathy to intensive vasodilator therapy. Levine TB, et al. **Am J Cardiol** 1997 Jul 15;80(2):212–4

Safety and clinical utility of long-term intravenous milrinone in advanced heart failure. Mehra MR, et al.
Am J Cardiol 1997 Jul 1;80(1):61–4

Association between diuretic use, clinical response, and death in acute heart failure. Philbin EF, et al. **Am J Cardiol** 1997 Aug 15;80(4):519–22

Rationale, background, and design of the randomized angiotensin receptor antagonist--angiotensin-converting enzyme inhibitor study (RAAS). Pitt B, et al.
Am J Cardiol 1996 Nov 15;78(10):1129–31

Management of congestive heart failure: is the role of positive inotropic therapy fading? Futterman LG, et al.
Am J Crit Care 1996 Nov;5(6):455–60

ASHP therapeutic guidelines on angiotensin-converting-enzyme inhibitors in patients with left ventricular dysfunction. This official ASHP practice standard was developed through the ASHP Commission on Therapeutics and approved by the ASHP Board of Directors on November 16, 1996 [see comments] **Am J Health Syst Pharm** 1997 Feb 1;54(3):299-313 (109 ref.). Comment in: Am J Health Syst Pharm 1997 Feb 1;54(3):264.

Effect of a multidisciplinary intervention on medication compliance in elderly patients with congestive heart failure. Rich MW, et al. **Am J Med** 1996 Sep;101(3):270-6

BNP: pathophysiological and potential therapeutic roles in acute congestive heart failure. Grantham JA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1077-83

Chronic effects of ANG II antagonist in heart failure: improvement of cGMP generation from ANP. Maeda Y, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2139-45

Basic aspects of vasorelaxant and bronchodilating peptides in clinical use: urodilatin (INN: Ularitide), VIP, and PACAP. Meyer M, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:443-61; discussion 461-3 (104 ref.)

Is there an expanded role for digoxin in patients with heart failure and sinus rhythm? An antagonist viewpoint. Munger MA, et al. **Ann Pharmacother** 1997 Jul-Aug;31(7-8):893-6 (36 ref.)

What is the role of angiotensin-converting enzyme inhibitors in congestive heart failure and after myocardial infarction? Nelson KM, et al. **Ann Pharmacother** 1996 Sep;30(9):986-93 (44 ref.)

Is there an expanded role for digoxin in patients with heart failure and sinus rhythm? A protagonist viewpoint. Williamson KM, et al. **Ann Pharmacother** 1997 Jul-Aug; 31(7-8):888-92 (51 ref.)

Beta-adrenergic blocking agents in the treatment of congestive heart failure: mechanisms and clinical results. Doughty RN, et al. **Annu Rev Med** 1997;48:103-14 (70 ref.)

A cost-effectiveness analysis of enalapril maleate in the management of congestive heart failure in Australia. Butler JR, et al. **Aust N Z J Med** 1996 Feb;26(1):89-95

Beta-adrenoceptor blockers in chronic heart failure--a review. Krum H. **Br J Clin Pharmacol** 1997 Aug; 44(2):111-8 (57 ref.)

Prevalence, aetiology and management of heart failure in general practice [see comments] Mair FS, et al. **Br J Gen Pract** 1996 Feb;46(403):77-9. Comment in: Br J Gen Pract 1996 Jun;46(407):373-4. Comment in: Br J Gen Pract 1996 Jun;46(407):374. Comment in: Br J Gen Pract 1996 Sep;46(410):551. Comment in: Br J Gen Pract 1996 Sep;46(410):551-2. Comment in: Br J Gen Pract 1997 Jan;47(414):56.

The investigation and management of patients with heart failure [letter; comment] [published erratum appears in Br J Gen Pract 1996 Dec;46(413):759] Saunderson EM, et al. **Br J Gen Pract** 1996 Sep;46(410):551-2. Comment on: Br J Gen Pract 1996 Feb;46(403):77-9.

Heart failure trials. Clark A, et al. **Br J Hosp Med** 1996 Jun 19-Jul 9;56(1):29-31 (16 ref.)

Modulation by atrial natriuretic factor of receptor-mediated cyclic AMP-dependent responses in canine pulmonary artery during heart failure. Mathew R, et al. **Br J Pharmacol** 1996 Aug;118(8):1886-90

Use of digoxin in heart failure. Should we bother? Frank J, et al. **Can Fam Physician** 1997 Jul;43:1227-8 (3 ref.)

Dopamine, cardiovascular dopamine receptors and chronic heart failure. Brodde OE. **Cardiologia** 1995 Dec;40(12 Suppl 1):125-9

Neurohumoral effects of digoxin: a target for further investigation. Gheorghiade M. **Cardiologia** 1996 Oct; 41(10):967-72 (49 ref.)

Pharmacological treatment of refractory heart failure. Rousseau MF. **Cardiologia** 1995 Dec;40(12 Suppl 1):151

Current concepts in the treatment of congestive heart failure. Cohn JN. **Cardiology** 1997;88 Suppl 2:2-6

Clinical efficacy and safety of pimobendan in treatment of heart failure--experience in Japan. Kato K. **Cardiology** 1997;88 Suppl 2:28-36

Effects of pimobendan on exercise tolerance and quality of life in patients with heart failure. Kubo SH. **Cardiology** 1997;88 Suppl 2:21-7 (24 ref.)

Recent changes in the treatment of congestive heart failure. Introduction. van Zwieten PA. **Cardiology** 1997;88 Suppl 2:1

Intravenous dopexamine in the treatment of acute congestive heart failure: results of a multicenter, double-blind, placebo-controlled withdrawal study. Asanoi H, et al. **Cardiovasc Drugs Ther** 1995 Dec;9(6):791-7

Medical treatment of end-stage heart failure. Binetti G, et al. **Cardiovasc Drugs Ther** 1996 Nov;10 Suppl 2:617-22 (27 ref.)

Combination drug therapy in chronic heart failure: is treatment part of the problem in heart failure? Cleland JG. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:297-303 (47 ref.)

Captopril does not acutely modulate plasma endothelin-1 concentration in human congestive heart failure. Grenier O, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):561-5

Lisinopril in the treatment of congestive heart failure in elderly patients: comparison versus captopril. Morisco C, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):63-9

Prediction of the changes in cardiac output in association with preload reduction therapy in patients with hypertensive heart failure. Nagano R, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):49-56

Acute hemodynamic effects and preload-dependent cardiovascular profile of the partial phosphodiesterase inhibitor nanterinone in patients with mild to moderate heart failure. Remme WJ, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):137-44

Inotropic agents in the treatment of heart failure: despair or hope? Sasayama S. **Cardiovasc Drugs Ther** 1997 Jan; 10(6):703-9 (70 ref.)

Acute and short-term effects of the nonpeptide endothelin-1 receptor antagonist bosentan in humans. Sütsch G, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):717-25

Coronary and cardiac sensitivity to the vasoselective benzothiazepine-like calcium antagonist, clentiazem, in experimental heart failure. Tanguay M, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):71-9

Nitrate tolerance, rebound, and their clinical relevance in stable angina pectoris, unstable angina, and heart failure. Thadani U. **Cardiovasc Drugs Ther** 1997 Jan;10(6):735-42 (65 ref.)

Current and newer approaches in the drug treatment of congestive heart failure. van Zwieten PA. **Cardiovasc Drugs Ther** 1997 Jan;10(6):693-702 (70 ref.)

Vascular effects of loop diuretics. Dormans TP, et al. **Cardiovasc Res** 1996 Dec;32(6):988-97 (57 ref.)

Creatine supplementation in congestive heart failure [letter; comment] Field ML. **Cardiovasc Res** 1996 Jan;31(1):174-6 . Comment on: Cardiovasc Res 1995 Sep;30(3):413-8.

Aldosterone blockade reduces vascular collagen turnover, improves heart rate variability and reduces early morning rise in heart rate in heart failure patients. MacFadyen RJ, et al. **Cardiovasc Res** 1997 Jul;35(1):30-4

A three year clinical review of the impact of angiotensin converting enzyme inhibitors on the intra hospital mortality of congestive heart failure in Nigerians. Adewole AD, et al. **Cent Afr J Med** 1996 Aug;42(8):253-5

Effect of the calcium antagonist felodipine as supplementary vasodilator therapy in patients with chronic heart failure treated with enalapril: V-HeFT III. Vasodilator-Heart Failure Trial (V-HeFT) Study Group. Cohn JN, et al. **Circulation** 1997 Aug 5;96(3):856-63

Nonselective beta-adrenergic blockade with carvedilol does not hinder the benefits of exercise training in patients with congestive heart failure. Demopoulos L, et al. **Circulation** 1997 Apr 1;95(7):1764-7

Medical therapy can improve the biological properties of the chronically failing heart. A new era in the treatment of heart failure. Eichhorn EJ, et al. **Circulation** 1996 Nov 1;94(9):2285-96 (156 ref.)

Additional information on solving the riddle of phentolamine's action [letter; comment] Gould L. **Circulation** 1996 Aug 1;94(3):586. Comment on: Circulation 1995 Oct 1;92(7):1793-800.

Improvement of alveolar-capillary membrane diffusing capacity with enalapril in chronic heart failure and counteracting effect of aspirin. Guazzi M, et al. **Circulation** 1997 Apr 1;95(7):1930-6

Vasodilator effects of endothelin-converting enzyme inhibition and endothelin ETA receptor blockade in chronic heart failure patients treated with ACE inhibitors. Love MP, et al. **Circulation** 1996 Nov 1;94(9):2131-7

Effect of amiodarone on clinical status and left ventricular function in patients with congestive heart failure. CHF-STAT Investigators. Massie BM, et al. **Circulation** 1996 Jun 15;93(12):2128-34

Early versus delayed angiotensin-converting enzyme inhibition in experimental chronic heart failure. Effects on survival, hemodynamics, and cardiovascular remodeling. Mulder P, et al. **Circulation** 1997 Mar 4;95(5):1314-9

Role of endogenous endothelin in chronic heart failure: effect of long-term treatment with an endothelin antagonist on survival, hemodynamics, and cardiac remodeling. Mulder P, et al. **Circulation** 1997 Sep 16;96(6):1976-82

Acute effects of beta 1-selective and nonselective beta-adrenergic receptor blockade on cardiac sympathetic activity in congestive heart failure. Newton GE, et al. **Circulation** 1996 Aug 1;94(3):353-8

Loading manipulations improve the prognostic value of Doppler evaluation of mitral flow in patients with chronic heart failure. Pozzoli M, et al. **Circulation** 1997 Mar 4; 95(5):1222-30

Beneficial hemodynamic and renal effects of adrenomedullin in an ovine model of heart failure. Rademaker MT, et al. **Circulation** 1997 Sep 16;96(6):1983-90

Concomitant endothelin receptor subtype-A blockade during the progression of pacing-induced congestive heart failure in rabbits. Beneficial effects on left ventricular and myocyte function [see comments] Spinale FG, et al. **Circulation** 1997 Apr 1;95(7):1918-29. Comment in: Circulation 1997 Apr 1;95(7):1752-4.

Sustained hemodynamic efficacy of therapy tailored to reduce filling pressures in survivors with advanced heart failure. Steimle AE, et al. **Circulation** 1997 Aug 19; 96(4):1165-72

Beneficial effects of amlodipine in a murine model of congestive heart failure induced by viral myocarditis. A possible mechanism through inhibition of nitric oxide production. Wang WZ, et al. **Circulation** 1997 Jan 7; 95(1):245-51

Reversing congestive heart failure with endothelin receptor antagonists [editorial; comment] Yazaki Y, et al. **Circulation** 1997 Apr 1;95(7):1752-4. Comment on: Circulation 1997 Apr 1;95(7):1918-29.

Digoxin's effect on mortality and hospitalization in heart failure: implications of the DIG study. Digitalis Investigation Group. Hobbs RE. **Cleve Clin J Med** 1997 May;64(5):234-7

Dofetilide in patients with left ventricular dysfunction and either heart failure or acute myocardial infarction: rationale, design, and patient characteristics of the DIAMOND studies. Danish Investigations of Arrhythmia and Mortality ON Dofetilide. **Clin Cardiol** 1997 Aug; 20(8):704-10

Comparative efficacy of short-term intravenous infusions of milrinone and dobutamine in acute congestive heart failure following acute myocardial infarction. Milrinone-Dobutamine Study Group. Karlsberg RP, et al. **Clin Cardiol** 1996 Jan;19(1):21-30

The design of the Mortality Assessment in Congestive Heart Failure Trial (MACH-1, mibefradil). Levine TB. **Clin Cardiol** 1997 Apr;20(4):320-6

Reverse remodeling in heart failure with intensification of vasodilator therapy. Levine TB, et al. **Clin Cardiol** 1997 Aug;20(8):697-702

Amiodarone: the expanding antiarrhythmic role and how to follow a patient on chronic therapy. Singh BN. **Clin Cardiol** 1997 Jul;20(7):608-18 (33 ref.)

The role of dopaminergic agonists in congestive heart failure. Semeraro C, et al. **Clin Exp Hypertens** 1997 Jan-Feb; 19(1-2):201-15 (37 ref.)

Diuretic combinations in refractory oedema states: pharmacokinetic-pharmacodynamic relationships. Sica DA, et al. **Clin Pharmacokinet** 1996 Mar;30(3):229-49 (132 ref.)

Increased toxicity of high-dose furosemide versus low-dose dopamine in the treatment of refractory congestive heart failure. Cotter G, et al. **Clin Pharmacol Ther** 1997 Aug; 62(2):187-93

Role of duration of diuretic effect in preventing sodium retention. Ferguson JA, et al. **Clin Pharmacol Ther** 1997 Aug;62(2):203-8

Evaluating the safety of mibefradil, a selective T-type calcium antagonist, in patients with chronic congestive heart failure. van der Vring JA, et al. **Clin Ther** 1996 Nov-Dec;18(6):1191-206

Carvedilol [Coreg]. Kukin M. **Compr Ther** 1997 Sep; 23(9):617-20 (13 ref.)

Anticoagulant and antiplatelet therapy in heart failure. Cleland JG. **Curr Opin Cardiol** 1997 May;12(3):276-87 (79 ref.)

Inhibition of the renin-angiotensin-aldosterone system in heart failure: new insights from basic clinical research. Cleland JG, et al. **Curr Opin Cardiol** 1996 May;11(3):252-62 (101 ref.)

Heart failure 1997: a time to take stock. Massie BM. **Curr Opin Cardiol** 1997 May;12(3):209-17 (56 ref.)

Update on digoxin and other oral positive inotropic agents for chronic heart failure. Reddy S, et al. **Curr Opin Cardiol** 1997 May;12(3):233-41 (74 ref.)

Mechanisms and management of heart failure due to diastolic dysfunction. Ruzumna P, et al. **Curr Opin Cardiol** 1996 May;11(3):269-75 (54 ref.)

Beta-blocker therapy for heart failure. Slatton ML, et al. **Curr Opin Cardiol** 1996 May;11(3):263-8 (56 ref.)

Clinical trials with implications regarding heart failure therapy. Young JB. **Curr Opin Cardiol** 1997 Jul; 12(4):407-17 (20 ref.)

The use of digitalis in heart failure. Rahimtoola SH, et al. **Curr Probl Cardiol** 1996 Dec;21(12):781-853 (146 ref.)

Congestive heart failure and disorders of the heart beat. Weaver T, et al. **Dent Clin North Am** 1996 Jul;40(3):543-61 (43 ref.)

Benefits and risks of torasemide in congestive heart failure and essential hypertension. Brater DC. **Drug Saf** 1996 Feb; 14(2):104-20 (77 ref.)

Novel drugs and current therapeutic approaches in the treatment of heart failure. Bonarjee VV, et al. **Drugs** 1996 Mar;51(3):347-58 (122 ref.)

Fosinopril. A review of its pharmacology and clinical efficacy in the management of heart failure. Davis R, et al. **Drugs** 1997 Jul;54(1):103-16 (53 ref.)

Current guidelines for the treatment of congestive heart failure. Kleber FX, et al. **Drugs** 1996 Jan;51(1):89-98 (70 ref.)

Optimal treatment of heart failure in the elderly. Doughty R, et al. **Drugs Aging** 1997 Jun;10(6):435-43 (28 ref.)

When, and when not, to use digoxin in the elderly. Gosselink AT, et al. **Drugs Aging** 1997 Jun;10(6):411-20 (54 ref.)

Lisinopril. A review of its pharmacology and clinical efficacy in elderly patients. Langtry HD, et al. **Drugs Aging** 1997 Feb;10(2):131-66 (240 ref.)

Doppler flow and echocardiography in functional cardiac insufficiency: assessment of nisoldipine therapy. Results of the DEFIANT-II Study. The DEFIANT-II Research Group. **Eur Heart J** 1997 Jan;18(1):31-40

A double-blind, cross-over comparison of the effects of a loop diuretic and a dopamine receptor agonist as first line therapy in patients with mild congestive heart failure [see comments] Andrews R, et al. **Eur Heart J** 1997 May; 18(5):852-7. Comment in: Eur Heart J 1997 May;18(5):712-4.

Effect of ramipril on morbidity and mode of death among survivors of acute myocardial infarction with clinical

evidence of heart failure. A report from the AIRE Study Investigators [see comments] Cleland JG, et al. **Eur Heart J** 1997 Jan;18(1):41–51. Comment in: Eur Heart J 1997 Jan;18(1):3–4.

Slowing the progression of heart failure [editorial] Cohn JN. **Eur Heart J** 1996 Nov;17(11):1609–11

Management of atrial fibrillation in the setting of heart failure. Crijns HJ, et al. **Eur Heart J** 1997 May;18 Suppl C:C45–9 (35 ref.)

Combination of high–dose furosemide and hydrochlorothiazide in the treatment of refractory congestive heart failure. Dormans TP, et al. **Eur Heart J** 1996 Dec;17(12):1867–74

Effects of beta–blocker therapy on mortality in patients with heart failure. A systematic overview of randomized controlled trials. Doughty RN, et al. **Eur Heart J** 1997 Apr;18(4):560–5 (32 ref.)

How European cardiologists perceive the role of calcium antagonists in the treatment of heart failure and left ventricular dysfunction. Iliceto S, et al. **Eur Heart J** 1997 Jan;18 Suppl A:A125–33 (2 ref.)

Growth hormone in the treatment of heart failure: a new tool for the future? [editorial; comment] Jonkman FA, et al. **Eur Heart J** 1997 Feb;18(2):181–4. Comment on: Eur Heart J 1997 Feb;18(2):340–7.

ACE inhibitors in heart failure: effect on mode of death [editorial; comment] Kübler W. **Eur Heart J** 1997 Jan; 18(1):3–4. Comment on: Eur Heart J 1997 Jan;18(1):41–51.

Effects of two different enalapril dosages on clinical, haemodynamic and neurohumoral response of patients with severe congestive heart failure. Pacher R, et al. **Eur Heart J** 1996 Aug;17(8):1223–32

Skeletal muscle changes in patients with chronic heart failure before and after treatment with enalapril [see comments] Schaufelberger M, et al. **Eur Heart J** 1996 Nov; 17(11):1678–85. Comment in: Eur Heart J 1996 Nov;17(11):1615–7.

The value of angiotensin converting enzyme inhibitors for the treatment of patients with left ventricular dysfunction, heart failure or after acute myocardial infarction. Swedberg K, et al. **Eur Heart J** 1996 Sep;17(9):1306–11 (31 ref.)

Treatment of mild heart failure: the place of diuretics and ibopamine [editorial; comment] Van Veldhuisen DJ. **Eur Heart J** 1997 May;18(5):712–4. Comment on: Eur Heart J 1997 May;18(5):852–7.

Flosequinan in chronic heart failure: how is exercise capacity improved? Banning AP, et al. **Eur J Clin Pharmacol** 1996; 51(2):133–8

Neutral endopeptidase 24.11 inhibition may not exhibit beneficial haemodynamic effects in patients with congestive heart failure. Kentsch M, et al. **Eur J Clin Pharmacol** 1996; 51(3–4):269–72

Adaptive changes in the acute haemodynamic effects of cilazapril during chronic treatment. Comparison with long–term clinical effect. Larsen J, et al. **Eur J Clin Pharmacol** 1996;50(6):433–41

Mega–trials: is meta–analysis an alternative? Lubsen J. **Eur J Clin Pharmacol** 1996;49 Suppl 1:S29–33

Dose–finding study of imidapril, a novel angiotensin converting enzyme inhibitor, in patients with stable chronic heart failure. Pinto YM, et al. **Eur J Clin Pharmacol** 1996; 50(4):265–8

Effects of metoprolol on myocardial beta–adrenoceptors and Gi alpha–proteins in patients with congestive heart failure. Sigmund M, et al. **Eur J Clin Pharmacol** 1996;51(2):127–32

Successful treatment of heart failure with enoximone in a patient with cytochrome c oxidase deficiency [letter] Timnik A, et al. **Eur J Pediatr** 1996 Jun;155(6):525

Systemic, pulmonary, brachial, renal and hepato–splanchnic hemodynamic effects of spirapril in severe congestive heart failure. Bellissant E, et al. **Fundam Clin Pharmacol** 1996; 10(2):127–35

Hemodynamic and neurohormonal effects of flosequinan in patients with heart failure. Isnard R, et al. **Fundam Clin Pharmacol** 1997;11(1):83–9

Cardiac and hemodynamic effects of TZC–5665, a novel pyridazinone derivative, and its metabolite in humans and dogs. Araki S, et al. **Gen Pharmacol** 1997 Apr;28(4):545–53

Inhibitors of the renin–angiotensin system in established cardiac failure. Chatterjee K. **Heart** 1996 Nov;76(3 Suppl 3):83–91 (38 ref.)

ACE inhibitors unmask incoordinate diastolic wall motion in restrictive left ventricular disease. Henein MY, et al. **Heart** 1996 Oct;76(4):326–31

Changing patterns of investigation and treatment of cardiac failure in hospital. Hillis GS, et al. **Heart** 1996 Nov; 76(5):427–9

Effect of pimobendan on exercise capacity in patients with heart failure: main results from the Pimobendan in Congestive Heart Failure (PICO) trial. Lubsen J, et al. **Heart** 1996 Sep;76(3):223–31

The potential for growth hormone in the management of heart failure [editorial] Monson JP, et al. **Heart** 1997 Jan; 77(1):1–2

Increased myocardial [123I]–metaiodobenzylguanidine uptake after enalapril treatment in patients with chronic heart failure. Somsen GA, et al. **Heart** 1996 Sep; 76(3):218–22

Double blind placebo controlled trial of short term transdermal scopolamine on heart rate variability in patients with chronic heart failure. Venkatesh G, et al. **Heart** 1996 Aug;76(2):137–43

Combined sympathetic suppression and angiotensin–converting enzyme inhibition in congestive heart failure. Manolis AJ, et al. **Hypertension** 1997 Jan;29(1 Pt 2):525–30

Intrarenal determinants of sodium retention in mild heart failure: effects of angiotensin–converting enzyme inhibition. Volpe M, et al. **Hypertension** 1997 Aug;30(2 Pt 1):168–76

Low–dose amiodarone in severe chronic heart failure. Biswas A, et al. **Indian Heart J** 1996 Jul–Aug;48(4):361–4

Concurrent alpha 1 adrenergic blockade and angiotensin converting enzyme inhibition in the treatment of congestive heart failure. Ajayi AA, et al. **Int J Cardiol** 1996 Dec 6; 57(2):173–6

Digoxin therapy and survival in heart failure in sinus rhythm. Banerjee AK, et al. **Int J Cardiol** 1996 Jul 5;55(1):9–13

Effects of digoxin on time domain measures of heart rate variability in patients with stable chronic cardiac failure: withdrawal and comparison group studies. Flapan AD, et al. **Int J Cardiol** 1997 Mar;59(1):29–36

Oxy free radical system in heart failure and therapeutic role of oral vitamin E. Ghatak A, et al. **Int J Cardiol** 1996 Dec 6;57(2):119–27

Why are angiotensin converting enzyme inhibitors underutilised in the treatment of heart failure by general practitioners? Houghton AR, et al. **Int J Cardiol** 1997 Mar; 59(1):7–10

Reversal of heart failure with sotalol in a case of incessant supraventricular tachycardia. Passaretti B, et al. **Int J Cardiol** 1996 Apr 19;54(1):1–4

Sympathetic inhibition with clonidine improves autonomic balance in congestive heart failure. You–hua Z, et al. **Int J Cardiol** 1997 Apr 18;59(2):139–44

Beta–adrenoceptor blocking agents for the treatment of heart failure. Heilbron BG, et al. **Int J Clin Pharmacol Ther** 1996 Jun;34(6):231–5 (35 ref.)

Patients with mild heart failure worsen during withdrawal from digoxin therapy. Adams KF Jr, et al. **J Am Coll Cardiol** 1997 Jul;30(1):42–8

Differences between primary care physicians and cardiologists in management of congestive heart failure: relation to practice guidelines. Edep ME, et al. **J Am Coll Cardiol** 1997 Aug;30(2):518–26

Effect of beta–blockade on mortality in patients with heart failure: a meta–analysis of randomized clinical trials. Heidenreich PA, et al. **J Am Coll Cardiol** 1997 Jul; 30(1):27–34

Hemodynamic and clinical effects of oral levodopa in children with congestive heart failure. Mendelsohn AM, et al. **J Am Coll Cardiol** 1997 Jul;30(1):237–42

Role of cytokines in the mechanism of action of amlodipine: the PRAISE Heart Failure Trial. Prospective Randomized Amlodipine Survival Evaluation. Mohler ER 3rd, et al. **J Am Coll Cardiol** 1997 Jul;30(1):35–41

Heart rate is a marker of amiodarone mortality reduction in severe heart failure. The GESICA–GEMA Investigators. Grupo de Estudio de la Sobrevida en la Insuficiencia Cardiaca en Argentina–Grupo de Estudios Multicéntricos en Argentina. Nul DR, et al. **J Am Coll Cardiol** 1997 May;29(6):1199–205

Pulmonary effect of amiodarone in patients with heart failure. The Congestive Heart Failure–Survival Trial of Antiarrhythmic Therapy (CHF–STAT) Investigators (Veterans Affairs Cooperative Study No. 320). Singh SN, et al. **J Am Coll Cardiol** 1997 Aug;30(2):514–7

Does digoxin provide additional hemodynamic and autonomic benefit at higher doses in patients with mild to moderate heart failure and normal sinus rhythm? Slatton ML, et al. **J Am Coll Cardiol** 1997 May;29(6):1206–13

Value of digoxin in heart failure and sinus rhythm: new features of an old drug? van Veldhuisen DJ, et al. **J Am Coll Cardiol** 1996 Oct;28(4):813–9 (99 ref.)

How best to determine magnesium requirement: need to consider cardiotherapeutic drugs that affect its retention [editorial; comment] Seelig M, et al. **J Am Coll Nutr** 1997 Feb;16(1):4–6. Comment on: J Am Coll Nutr 1997 Feb;16(1):22–31.

Dopamine does not enhance furosemide–induced natriuresis in patients with congestive heart failure. Vargo DL, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1032–7

Vasodilation by urapidil in the treatment of chronic congestive heart failure in addition to angiotensin–converting enzyme inhibitors is not beneficial: results of a placebo–controlled, double–blind study. Dorszewski A, et al. **J Card Fail** 1997 Jun;3(2):91–6

Long–term l–carnitine treatment prolongs the survival in rats with adriamycin–induced heart failure. Kawasaki N, et al. **J Card Fail** 1996 Dec;2(4):293–9

Beta–blocker therapy in heart failure: myths or realities. Kelly DT. **J Card Fail** 1996 Dec;2(4 Suppl):S239–42 (10 ref.)

Effects of angiotensin II receptor blockade on N–terminal proatrial natriuretic factor plasma levels in chronic heart failure. Klinge R, et al. **J Card Fail** 1997 Jun;3(2):75–81

Calcium channel blockers in heart failure: help or hindrance? Konstam MA, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S251–7 (35 ref.)

A randomized crossover trial of levodopa in congestive heart failure. Leszek P, et al. **J Card Fail** 1996 Sep;2(3):163–74; discussion 175–6

Effects of long–term treatment with trandolapril on augmented vasoconstriction in rats with chronic heart failure. Okumura Y, et al. **J Card Fail** 1996 Dec;2(4):301–10

Positive inotropic therapy: dead end or new horizon? Remme WJ. **J Card Fail** 1996 Dec;2(4 Suppl):S267–76 (51 ref.)

Immunomodulation: a new horizon for medical treatment of heart failure. Sasayama S, et al. **J Card Fail** 1996 Dec; 2(4 Suppl):S287–94 (37 ref.)

Vesnarinone: a potential cytokine inhibitor. Sasayama S, et al. **J Card Fail** 1996 Sep;2(3):251–8 (52 ref.)

Direct effects of chronic beta–adrenergic receptor blockade on left ventricular and myocyte function in a model of tachycardia–induced congestive heart failure. Spinale FG, et al. **J Card Fail** 1996 Dec;2(4):311–8

Clinical and autonomic effects of ibopamine as adjunct to angiotensin–converting enzyme inhibitors in chronic heart failure [see comments] Szabó BM, et al. **J Card Fail** 1996 Sep;2(3):185–92. Comment in: J Card Fail 1996 Sep;2(3):193–6. Comment in: J Card Fail 1996 Sep;2(3):197–202.

Ion channel blockers in the treatment of chronic heart failure. Toyama J, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S243–9 (44 ref.)

Natriuretic peptides in the treatment of heart failure. Yasue H, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S277–85

Calcium sensitization via troponin–C: a new approach for the treatment of heart failure. Proceedings of an international symposium in association with the joint XIIth World Congress of Cardiology and XVIth Congress of the European Society of Cardiology. Berlin, Germany, September 10, 1994. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S1–84

The potential role of calcium antagonists in the management of congestive heart failure: initial experience with lacidipine. de Vries RJ, et al. **J Cardiovasc Pharmacol** 1995; 25 Suppl 3:S33–9

Circadian variation in blood pressure and heart rate in nonhypertensive congestive heart failure. Giles TD, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):733–40

Will calcium sensitizers play a role in the treatment of heart failure? Nielsen–Kudsk JE, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S77–84 (57 ref.)

Effect of long–term treatment with selective vasopressin V1 and V2 receptor antagonist on the development of heart failure in rats. Nishikimi T, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):275–82

A novel approach to the development of positive inotropic agents for chronic heart failure. Packer M. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S52–6 (44 ref.)

Comparison of chronic neutral endopeptidase inhibition and furosemide in an ovine model of heart failure. Rademaker MT, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):439–46

Hemodynamic and autonomic effects of intravenous saterinone in patients with chronic heart failure. Szabó BM, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):618–23

Effects of angiotensin–converting enzyme inhibitors and angiotensin II type 1 receptor antagonists in rats with heart failure. Role of kinins and angiotensin II type 2 receptors. Liu YH, et al. **J Clin Invest** 1997 Apr 15;99(8):1926–35

Hydralazine prevents nitroglycerin tolerance by inhibiting activation of a membrane–bound NADH oxidase. A new action for an old drug. Münzel T, et al. **J Clin Invest** 1996 Sep 15;98(6):1465–70

A cardiologist's perspective on evolving concepts in the management of congestive heart failure. Forker AD. **J Clin Pharmacol** 1996 Nov;36(11):973–84 (65 ref.)

Beta–blocker use in systolic heart failure and dilated cardiomyopathy. Hash TW 2nd, et al. **J Clin Pharmacol** 1997 Jan;37(1):7–19 (73 ref.)

Digoxin in heart failure. Chadwell M, et al. **J Fam Pract** 1997 May;44(5):442

Pharmacologic management of heart failure among older adults by office–based physicians in the United States. Croft JB, et al. **J Fam Pract** 1997 Apr;44(4):382–90

Utilization and dosing of angiotensin–converting enzyme inhibitors for heart failure. Effect of physician specialty and patient characteristics [see comments] Chin MH, et al. **J Gen Intern Med** 1997 Sep;12(9):563–6. Comment in: J Gen Intern Med 1997 Sep;12(9):581–2.

Differences in generalist and specialist physicians' knowledge and use of angiotensin–converting enzyme inhibitors for congestive heart failure [see comments] Chin MH, et al. **J Gen Intern Med** 1997 Sep;12(9):523–30. Comment in: J Gen Intern Med 1997 Sep;12(9):581–2.

Heart failure and angiotensin–converting enzyme inhibitors. Is there a need for specialty care? [editorial; comment] Scheiner MA, et al. **J Gen Intern Med** 1997 Sep;12(9):581–2 . Comment on: J Gen Intern Med 1997 Sep;12(9):523–30. Comment on: J Gen Intern Med 1997 Sep;12(9):563–6.

Hemodynamic and neurohumoral effects of long–term prostaglandin E1 infusions in outpatients with severe congestive heart failure. Hülsmann M, et al. **J Heart Lung Transplant** 1997 May;16(5):556–62

Angiotensin II receptor antagonists, elite drugs (or not) for patients with heart failure or hypertension? Beevers DG, et al. **J Hum Hypertens** 1997 Jun;11(6):329–30

Importance of trough : peak ratios in treatment of blood pressure in post–myocardial infarction and heart failure settings. Meredith PA. **J Hum Hypertens** 1997 Jan; 11(1):39–43 (14 ref.)

Treatment with verapamil and trandolapril in patients with congestive heart failure and myocardial infarction. The Danish Verapamil Infarction Trial (DAVIT Study Group). Hansen JF, et al. **J Hypertens Suppl** 1997 Mar; 15(2):S119–22 (32 ref.)

HCQIP Project Report—findings released in Use of Ace Inhibitors in Heart Failure Project. McIlwain JS. **J Miss State Med Assoc** 1997 Jul;38(7):282

Ca++ sensitizers impair cardiac relaxation in failing human myocardium. Hajjar RJ, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):247–54

The effect of hydralazine on the development of tolerance to continuous nitroglycerin. Parker JD, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):866–75

Dose–effect relationships of prostaglandin E1 in severe endstage chronic heart failure. Stanek B, et al. **Jpn Heart J** 1997 Jan;38(1):53–65

Randomised, placebo–controlled trial of carvedilol in patients with congestive heart failure due to ischaemic heart disease. Australia/New Zealand Heart Failure Research Collaborative Group [see comments] **Lancet** 1997 Feb 8; 349(9049):375–80. Comment in: ACP J Club 1997 Jul–Aug;127(1):3.

Adverse event with first–dose perindopril in congestive heart failure [letter] [see comments] Bagger JP. **Lancet** 1997 Jun 7;349(9066):1671–2. Comment in: Lancet 1997 Aug 16;350(9076):520; discussion 521–2. Comment in: Lancet 1997 Aug 16;350(9076):520–1; discussion 521–2. Comment in: Lancet 1997 Aug 16;350(9076):521.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Ball SG. **Lancet** 1997 May 17; 349(9063):1474; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Whither digitalis? [see comments] Campbell RW. **Lancet** 1997 Jun 28;349(9069):1854–5. Comment in: Lancet 1997 Aug 16;350(9076):519.

Adverse event with first–dose perindopril in congestive heart failure [letter; comment] Cleland JG. **Lancet** 1997 Aug 16; 350(9076):520–1; discussion 521–2. Comment on: Lancet 1997 Jun 7;349(9066):1671–2.

Growth hormone in end–stage heart failure [letter; comment] Dreifuss PM. **Lancet** 1997 Jun 21;349(9068):1841–2; discussion 1843. Comment on: Lancet 1997 Apr 12;349(9058):1967–8. Comment on: Lancet 1997 Apr 12;349(9058):1068.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Fournier A, et al. **Lancet** 1997 May 17; 349(9063):1473–4; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Ibopamine and survival in severe congestive heart failure: PRIME II [letter; comment] Girbes AR, et al. **Lancet** 1997 Jul 12;350(9071):147–8. Comment on: Lancet 1997 Apr 5;349(9057):971–7.

Randomised study of effect of ibopamine on survival in patients with advanced severe heart failure. Second Prospective Randomised Study of Ibopamine on Mortality and Efficacy (PRIME II) Investigators [see comments] Hampton JR, et al. **Lancet** 1997 Apr 5;349(9057):971–7. Comment in: Lancet 1997 Apr 5;349(9057):966–7. Comment in: Lancet 1997 Jul 12;350(9071):147. Comment in: Lancet 1997 Jul 12;350(9071):147–8.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Jensen BV, et al. **Lancet** 1997 May 17; 349(9063):1473; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Growth hormone in end–stage heart failure [letter; comment] Khardori R, et al. **Lancet** 1997 Jun 21;349(9068):1842; discussion 1843. Comment on: Lancet 1997 Apr 12;349(9058):1067–8. Comment on: Lancet 1997 Apr 12;349(9058):1068.

Adverse event with first–dose perindopril in congestive heart failure [letter; comment] Lees KR, et al. **Lancet** 1997 Aug 16;350(9076):520; discussion 521–2. Comment on: Lancet 1997 Jun 7;349(9066):1671–2.

Adverse event with first–dose perindopril in congestive heart failure [letter; comment] MacFadyen RJ. **Lancet** 1997 Aug 16;350(9076):520; discussion 521–2. Comment on: Lancet 1997 Jun 7;349(9066):1671–2.

Digoxin for patients with heart failure in sinus rhythm [letter; comment] McMurray J, et al. **Lancet** 1997 Aug 16; 350(9076):519. Comment on: Lancet 1997 Jun 28;349(9069):1854–5.

Ibopamine and survival in severe congestive heart failure: PRIME II [letter; comment] Massel D. **Lancet** 1997 Jul 12;350(9071):147. Comment on: Lancet 1997 Apr 5;349(9057):971–7.

Inhaled nitric oxide and exercise capacity in congestive heart failure [letter] Matsumoto A, et al. **Lancet** 1997 Apr 5; 349(9057):999–1000

DIAMOND antiarrhythmic trials. Danish Investigations of Arrhythmia and Mortality on Dofetilide [letter; comment] Møller M. **Lancet** 1996 Dec 7;348(9041):1597–8. Comment on: Lancet 1996 Jul 6;348(9019):7–12.

Treating chronic heart failure: time to take stock [comment] Niebauer J, et al. **Lancet** 1997 Apr 5;349(9057):966–7. Comment on: Lancet 1997 Apr 5;349(9057):971–7.

Treatment of end–stage cardiac failure with growth hormone [letter] [see comments] O'Driscoll JG, et al. **Lancet** 1997 Apr 12;349(9058):1068. Comment in: Lancet 1997 Jun 21;349(9068):1841–2; discussion 1843. Comment in: Lancet 1997 Jun 21;349(9068):1842; discussion 1843.

Randomised trial of losartan versus captopril in patients over 65 with heart failure (Evaluation of Losartan in the Elderly Study, ELITE) [see comments] Pitt B, et al. **Lancet** 1997 Mar 15;349(9054):747–52. Comment in: Lancet 1997 May 17;349(9063):1473; discussion 1475. Comment in: Lancet 1997 May 17;349(9063):1473–4; discussion 1475. Comment in: Lancet 1997 May 17;349(9063):1474; discussion 1475. Comment in: ACP J Club 1997 Sep–Oct;127(2):29.

Digoxin for patients with heart failure in sinus rhythm [letter; comment] Saunders KB. **Lancet** 1997 Aug 16;350(9076):519. Comment on: Lancet 1997 Jun 28;349(9069):1854–5.

Dose of digoxin prescribed in the UK compared with France and the USA [see comments] Saunders KB, et al. **Lancet** 1997 Mar 22;349(9055):833–6. Comment in: Lancet 1997 May 3;349(9061):1326–7. Comment in: Lancet 1997 Jun 21;349(9068):1845.

Losartan versus captopril in elderly patients with heart failure [letter; comment] Sechi LA, et al. **Lancet** 1997 May 17; 349(9063):1474; discussion 1475. Comment on: Lancet 1997 Mar 15;349(9054):747–52.

Adverse event with first–dose perindopril in congestive heart failure [letter; comment] Tan LB, et al. **Lancet** 1997 Aug 16;350(9076):521. Comment on: Lancet 1997 Jun 7;349(9066):1671–2.

Haemodynamic effects of intravenous growth hormone in congestive heart failure [letter] [see comments] Volterrani M, et al. **Lancet** 1997 Apr 12;349(9058):1067–8. Comment in: Lancet 1997 Jun 21;349(9068):1841–2; discussion 1843. Comment in: Lancet 1997 Jun 21;349(9068):1842; discussion 1843. Comment in: Lancet 1997 Jun 21;349(9068):1842–3.

Growth hormone in end–stage heart failure [letter; comment] Wilmshurst P. **Lancet** 1997 Jun 21;349(9068):1842–3. Comment on: Lancet 1997 Apr 12;349(9058):1067–8.

Optimum dose of digoxin [letter; comment] Zuccalá G, et al. **Lancet** 1997 Jun 21;349(9068):1845. Comment on: Lancet 1997 Mar 22;349(9055):833–6.

Antiarrhythmic action of pharmacological administration of magnesium in heart failure: a critical review of new data. Sueta CA, et al. **Magnes Res** 1995 Dec;8(4):389–401 (78 ref.)

Drugs for chronic heart failure. **Med Lett Drugs Ther** 1996 Oct 11;38(985):92–4

Carvedilol for heart failure. **Med Lett Drugs Ther** 1997 Sep 26;39(1010):89–91

Development of new drugs for chronic congestive heart failure and stable angina—a clinicians's view. Permanyer–Miralda G. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl C:39–40

CPMP note for guidance: clinical trials on the medicinal products in the treatment of cardiac failure. Shah R. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl C:31–3 (7 ref.)

Effect of furosemide oral solution versus furosemide tablets on diuresis and electrolytes in patients with moderate congestive heart failure. Cohen N, et al. **Miner Electrolyte Metab** 1996;22(4):248–52

The effect of digoxin on mortality and morbidity in patients with heart failure. The Digitalis Investigation Group [see comments] **N Engl J Med** 1997 Feb 20;336(8):525–33. Comment in: N Engl J Med 1997 Feb 20;336(8):575–6. Comment in: N Engl J Med 1997 Jul 10;337(2):129; discussion 130–1. Comment in: N Engl J Med 1997 Jul 10;337(2):129–30; discussion 130–1. Comment in: N Engl J Med 1997 Jul 10;337(2):130; discussion 130–1. Comment in: ACP J Club 1997 Sep–Oct;127(2):34.

Amlodipine in chronic heart failure [letter; comment] Allan JJ. **N Engl J Med** 1997 Apr 3;336(14):1023–4; discussion 1024. Comment on: N Engl J Med 1996 Oct 10;335(15):1107–14.

Digoxin in patients with heart failure [letter; comment] Böhm M. **N Engl J Med** 1997 Jul 10;337(2):129–30; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

The management of chronic heart failure [letter; comment] Howard PA, et al. **N Engl J Med** 1997 Jan 23;336(4):295; discussion 296. Comment on: N Engl J Med 1996 Aug 15;335(7):490–8.

Carvedilol in patients with chronic heart failure [letter; comment] Moyé LA, et al. **N Engl J Med** 1996 Oct 24; 335(17):1318; discussion 1319–20. Comment on: N Engl J Med 1996 May 23;334(21):1349–55.

End of the oldest controversy in medicine. Are we ready to conclude the debate on digitalis? [editorial; comment] Packer M. **N Engl J Med** 1997 Feb 20;336(8):575–6. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Digoxin in patients with heart failure [letter; comment] Soto J, et al. **N Engl J Med** 1997 Jul 10;337(2):129; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Digoxin in patients with heart failure [letter; comment] Umans VA, et al. **N Engl J Med** 1997 Jul 10;337(2):129; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Carvedilol in patients with chronic heart failure [letter; comment] von Olshausen K, et al. **N Engl J Med** 1996 Oct 24;335(17):1318–9; discussion 1319–20. Comment on: N Engl J Med 1996 May 23;334(21):1349–55.

Digoxin in patients with heart failure [letter; comment] Zoneraich S. **N Engl J Med** 1997 Jul 10;337(2):130; discussion 130–1. Comment on: N Engl J Med 1997 Feb 20;336(8):525–33.

Effects of an orally effective endothelin–A receptor antagonist in dogs with pacing–induced heart failure. McConnell PI, et al. **Nebr Med J** 1996 Nov;81(11):349–55

Acute renal failure following ACE inhibition in a patient with coarctation of the aorta. Sever MS, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1643–4

Pharmacogenetics and heart failure: a convergence with carvedilol [editorial] Meadowcroft AM, et al. **Pharmacotherapy** 1997 Jul–Aug;17(4):637–9

Short–term intravenous milrinone for severe congestive heart failure: the good, bad, and not so good. Varriale P, et al. **Pharmacotherapy** 1997 Mar–Apr;17(2):371–4

Acute congestive heart failure. The need for aggressive therapy. Levin TN. **Postgrad Med** 1997 Jan;101(1):97–100, 103–4, 108–11 (16 ref.)

Drug therapy for congestive heart failure. Appropriate choices can prolong life. Sorrentino MJ. **Postgrad Med** 1997 Jan;101(1):83–6, 89–90, 93–4 (15 ref.)

Heart failure in the elderly [letter; comment] Jolobe OM. **Postgrad Med J** 1997 Mar;73(857):189–90. Comment on: Postgrad Med J 1996 Oct;72(852):577–80.

Amiodarone therapy in chronic heart failure and myocardial infarction: a review of the mortality trials with special attention to STAT–CHF and the GESICA trials. Grupo de Estudio de la Sobrevida en la Insuficiencia Cardiaca en Argentina. Pinto JV Jr, et al. **Prog Cardiovasc Dis** 1997 Jul–Aug;40(1):85–93 (34 ref.)

Clinical trials update [news] Kayser SR. **Prog Cardiovasc Nurs** 1997 Spring;12(2):30–3, 44 (10 ref.)

Angiotensin–converting–enzyme inhibitors in the management of cardiac failure: are we ignoring the evidence? Hillis GS, et al. **QJM** 1996 Feb;89(2):145–50

Heart failure—perspective on some controversial issues for the clinician. 20th Biennial Congress of the Cardiac Society, October 1996. **S Afr Med J** 1997 Feb;87 Suppl 1:C58

ELITE study raises losartan's profile in heart failure therapy debate. **S Afr Med J** 1997 Jun;87 Suppl 3:C182

Beta–blockade in heart failure: a potential role. Kwasniewski R, et al. **S D J Med** 1997 Jan;50(1):25–6

Effect of bolus injection versus continuous infusion of furosemide on diuresis and neurohormonal activation in patients with severe congestive heart failure. Aaser E, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):361–7

Development of a thyroid hormone analogue for the treatment of congestive heart failure. Morkin E, et al. **Thyroid** 1996 Oct;6(5):521–6 (18 ref.)

Acceptance of a pump–driven infusion therapy with prostaglandin E1 as a bridge to heart transplantation. Daneschvar H, et al. **Wien Klin Wochenschr** 1996; 108(16):510–4

Prostaglandin E1 in heart failure: the Vienna experience [editorial] Pacher R, et al. **Wien Klin Wochenschr** 1996; 108(16):491–5 (59 ref.)

Effects of atenolol as add–on therapy to fosinopril in heart failure. Pacher R, et al. **Wien Klin Wochenschr** 1997 Apr 11;109(7):232–8

[Clinical effects of bisoprolol in congestive heart failure due to dilated cardiomyopathy] Li Z, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):683–6 (Eng. Abstr.) **(Chi)**

[Nuclear cardiology study on effective ingredients of Astragalus membranaceus in treating heart failure] Luo HM, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Dec;15(12):707–9 (Eng. Abstr.) **(Chi)**

[Dosage of ACE inhibitors in heart failure (letter; comment)] Jerie P. **Vnitr Lek** 1996 Nov;42(11):802–4. Comment on: Vnitr Lek 1996 Apr;42(4):290–6. **(Cze)**

[Digoxin in chronic heart failure and sinus rhythm: is the end of the controversy in sight?] van Veldhuisen DJ, et al. **Ned Tijdschr Geneeskd** 1997 Mar 8;141(10):460–4 (39 ref.) (Eng. Abstr.) **(Dut)**

[Drug therapy of heart failure. What choice in 1996?] Witchitz S, et al. **Ann Cardiol Angeiol (Paris)** 1996 Oct; 45(8):445–52 (24 ref.) (Eng. Abstr.) **(Fre)**

[Drug treatment of cardiac insufficiency with systolic dysfunction] Follath F. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):254–7 (17 ref.) (Eng. Abstr.) **(Fre)**

[Early pulmonary changes caused by amiodarone] Leipner N, et al. **Aktuelle Radiol** 1996 Sep;6(5):235–8 (Eng. Abstr.) **(Ger)**

[Current views on Milrinon—a PDE–III–inhibitor] **Anaesthesist** 1994 Mar;43(3 Suppl):1–16 **(Ger)**

[PDE–III–inhibitors in acute cardiac insufficiency] **Anaesthesist** 1994 Dec;43(12 Suppl):1–8 **(Ger)**

[Moxonidin in heart failure: new therapeutic principles suppress neurohumoral activation. Supplement to the Congress on "Heart Failure" of the working group on cardiac insufficiency at the European Society for Cardiology. Cologne, May 1997] **Dtsch Med Wochenschr** 1997 Sep;122(36 Suppl Moxonidin):1–4 **(Ger)**

[Carvedilol] Antepohl W, et al. **Dtsch Med Wochenschr** 1997 Jun 20;122(25–26):833–4 **(Ger)**

[beta–Receptor blockers: a new principle in the therapy of heart failure? (editorial)] Schotten U, et al. **Dtsch Med Wochenschr** 1997 Mar 27;122(13):387–90 (14 ref.) **(Ger)**

[Therapy with beta blockers in heart failure. Recent studies of carvedilol] Böhm M, et al. **Fortschr Med** 1996 May 10; 114(13):167–8 (0 ref.) **(Ger)**

[Beta blocker for therapy of heart failure. Decreased mortality and fewer clinic admissions (news)] Pickl S. **Fortschr Med** 1997 Apr 20;115(11):22 **(Ger)**

[Therapy of heart failure. II. Therapy of chronic heart failure] Schwinger RH, et al. **Fortschr Med** 1997 Jun 10; 115(16):36–8, 41–5 (0 ref.) (Eng. Abstr.) **(Ger)**

[Crataegus Special Extract WS 1442. Assessment of objective effectiveness in patients with heart failure (NYHA II)]

Weikl A, et al. **Fortschr Med** 1996 Aug 30;114(24):291–6 (Eng. Abstr.) **(Ger)**

[Torasemide in patients with chronic heart failure. Results of clinical administration in general practice] Wittig T, et al. **Fortschr Med** 1996 Jan 30;114(3):24–8 (Eng. Abstr.) **(Ger)**

[Crataegus in cardiac insufficiency--taking a current position] **Internist (Berl)** 1993 Dec;34(12 Suppl):1–8 **(Ger)**

[Nitric oxide donors in therapy of chronic heart failure] Blasini R, et al. **Internist (Berl)** 1997 May;38(5):448–52 (48 ref.) **(Ger)**

[Beta blockers in chronic heart failure. Clinical position on the topic (interview)] Dominiak P, et al. **Internist (Berl)** 1996 Dec;37(12):1274–8; discussion 1279 **(Ger)**

[Combination therapy in diuretic resistance (editorial)] Heinzl S. **Med Monatsschr Pharm** 1997 Apr;20(4):85 **(Ger)**

[Beta receptors and beta blockers in heart failure] Heinzl S. **Med Monatsschr Pharm** 1997 Jun;20(6):146–8 (4 ref.) **(Ger)**

[Beta blockers in heart failure (editorial)] Heinzl S. **Med Monatsschr Pharm** 1996 Feb;19(2):37 **(Ger)**

[New positive inotropic drugs] Pfaffendorf M. **Med Monatsschr Pharm** 1997 Aug;20(8):205–17 (94 ref.) **(Ger)**

[Spironolactone: renaissance of anti-aldosterone therapy in heart failure?] Brilla CG, et al. **Schweiz Rundsch Med Prax** 1997 Apr 2;86(14):566–74 (38 ref.) (Eng. Abstr.) **(Ger)**

[Diuretics in the treatment of heart failure: current pathophysiological aspects] Mandinov L, et al. **Schweiz Rundsch Med Prax** 1997 Apr 2;86(14):575–82 (74 ref.) (Eng. Abstr.) **(Ger)**

[Beta receptor blockers: renaissance in therapy of heart failure (editorial)] Klein W. **Wien Klin Wochenschr** 1997 Apr 11;109(7):219–21 **(Ger)**

[Effect of prostaglandin E1 on extravascular lung water in patients with severe heart failure] Lenz K, et al. **Wien Klin Wochenschr** 1996;108(16):505–9 (Eng. Abstr.) **(Ger)**

[Current aspects of ACE inhibitor therapy from the cardiologic viewpoint] Klein W, et al. **Wien Med Wochenschr** 1996;146(11):221–4 (24 ref.) (Eng. Abstr.) **(Ger)**

[Inhibition of the renin–angiotensin system: ACE inhibitors and angiotensin II receptor blockers] Pichler M, et al. **Wien Med Wochenschr** 1996;146(11):228–31 (35 ref.) (Eng. Abstr.) **(Ger)**

[Renal side effects of angiotensin converting enzyme inhibitors] Schmidt A, et al. **Wien Med Wochenschr** 1996; 146(16):454–6 (28 ref.) (Eng. Abstr.) **(Ger)**

[ACE inhibitors in cardiac insufficiency and myocardial infarct. What happens after myocardial infarct?] **Z Kardiol** 1994 Nov;83(11 Suppl):1–4 **(Ger)**

[Angiotensin II antagonist for heart insufficiency] **Z Kardiol** 1997 Jun;86(6 Suppl):1–8 **(Ger)**

[Pharmacotherapy of severe heart failure with inodilators--new approaches] Baumann G, et al. **Z Kardiol** 1996;85 Suppl 4:9–19 (49 ref.) (Eng. Abstr.) **(Ger)**

[Beta–blocker therapy in heart failure] Böhm M. **Z Kardiol** 1996;85 Suppl 7:IV–V **(Ger)**

[Therapy of chronic heart failure with beta–receptor blockers] Böhm M. **Z Kardiol** 1996;85 Suppl 7:11–21 (42 ref.) (Eng. Abstr.) **(Ger)**

[New aspects of ACE inhibitor treatment of heart failure] Dietz R, et al. **Z Kardiol** 1996;85 Suppl 6:241–6 (46 ref.) (Eng. Abstr.) **(Ger)**

[Beta–blockers and heart failure--a critical view] Erdmann E. **Z Kardiol** 1996;85 Suppl 7:35–8 (10 ref.) (Eng. Abstr.) **(Ger)**

[Prognosis of heart failure--value of drug therapy] Felix SB. **Z Kardiol** 1996;85 Suppl 4:1–7 (34 ref.) (Eng. Abstr.) **(Ger)**

[Hemodynamic and humoral effects of parenteral therapy with intravenously administered ACE inhibitor quinaprilat in patients with advanced heart failure] Mitrovic V, et al. **Z Kardiol** 1996 Nov;85(11):828–38 (Eng. Abstr.) **(Ger)**

[Therapy of heart failure with beta–blockers?] Osterziel KJ, et al. **Z Kardiol** 1997 Jan;86(1):1–8 (63 ref.) (Eng. Abstr.) **(Ger)**

[Renaissance of beta blocker therapy in myocardial infarct] Seidl K, et al. **Z Kardiol** 1996 Oct;85(10):737–44 (38 ref.) (Eng. Abstr.) **(Ger)**

[Use of captopril in therapeutic combinations] Alföldi S. **Acta Pharm Hung** 1997 Jul;67(4):149–53 (18 ref.) (Eng. Abstr.) **(Hun)**

[Captopril in the treatment of heart failure] Kékes E. **Acta Pharm Hung** 1997 Jul;67(4):155–63 (21 ref.) (Eng. Abstr.) **(Hun)**

[Clinical course, prognosis in patients treated for dilated cardiomyopathy] Cserhalmi L, et al. **Orv Hetil** 1996 Aug 18;137(33):1799–803 (23 ref.) (Eng. Abstr.) **(Hun)**

[Effect of enalapril on restrictive type diastolic filling disorder in severe congestive heart failure] Katona A, et al. **Orv Hetil** 1997 Jan 19;138(3):129–34 (Eng. Abstr.) **(Hun)**

[Refractory heart failure: it requires the use of polychemotherapy. What is the rationale?] Campa PP, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):139–50 **(Ita)**

[Clinical efficacy of oral dopaminergic agents: new findings] Dei Cas L, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):131–8 **(Ita)**

[Inotropic agents: why yes and why not] Ferrari M, et al. **Cardiologia** 1996 Sep;41(9):831–41 (73 ref.) **(Ita)**

[Echocardiography in the assessment of the patient with heart insufficiency: assessment parameters of the pharmacologic treatment] Frigerio M, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):457–61 **(Ita)**

[Prospects of pharmacologic treatment of post–ischemic heart failure] Russo R, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):533–7 **(Ita)**

[Nitrate derivatives in heart failure: physiopathological, clinical, and prognostic features] Marra L, et al. **Clin Ter** 1996 Jul–Aug;147(7–8):399–402 (23 ref.) (Eng. Abstr.) **(Ita)**

[Clinical and diagnostic indications for the use of nitrates in dynamic heart defects (decompensation, left ventricular dysfunction without decompensation, etc.] Branzi A. **G Ital Cardiol** 1996 Sep;26(9):1079–84 (19 ref.) **(Ita)**

[Pharmacologic interactions with nitrates in patients with, or at risk of, cardiac decompensation] Filardi PP, et al. **G Ital Cardiol** 1996 Sep;26(9):1085–8 (09 ref.) **(Ita)**

[Nitrate compounds in patients awaiting heart transplantation] Gavazzi A. **G Ital Cardiol** 1996 Sep; 26(9):1089–94 **(Ita)**

[Physiopathologic and pharmacodynamic rationale for the use of nitrate compounds in cardiac decompensation] Geraci E. **G Ital Cardiol** 1996 Sep;26(9):1073–7 (25 ref.) **(Ita)**

[The nitrates in cardiac decompensation] Guazzi MD. **G Ital Cardiol** 1996 Sep;26(9):1065–6 **(Ita)**

[Acute changes in the hemodynamic profile and circulating levels of atrial natriuretic peptide induced by dobutamine in severe heart failure] La Vecchia L, et al. **G Ital Cardiol** 1996 Aug;26(8):863–74 (Eng. Abstr.) **(Ita)**

[Endothelial function, nitrate derivatives and cardiac insufficiency] Ledda F. **G Ital Cardiol** 1996 Sep; 26(9):1067–72 (22 ref.) **(Ita)**

[Effectiveness, tolerance, adverse effects of prolonged therapy with nitrate compounds] Mazzotta G. **G Ital Cardiol** 1996 Sep;26(9):1099–106 (56 ref.) **(Ita)**

[Controlled clinical study of doxophylline versus aminophylline in the treatment of acute cardiorespiratory insufficiency syndromes] Checchini M, et al. **Minerva Cardioangiol** 1997 Apr;45(4):185–90 (Eng. Abstr.) **(Ita)**

[How and to what extent has beta–blocker treatment been established for chronic heart failure?] Yokota Y. **J Cardiol** 1996 Aug;28(2):99–112 (113 ref.) (Eng. Abstr.) **(Jpn)**

[Future aspects of new cardiotonic drugs] Hori M, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):59–63 (5 ref.) **(Jpn)**

[Vasodilators: treatment of heart failure] Kumada T. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):64–9 (2 ref.) **(Jpn)**

[Ace inhibitors: treatment of congestive heart failure] Sekiguchi H, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):70–4 (5 ref.) **(Jpn)**

[Adrenergic beta–antagonists: treatment of heart failure] Yokoyama M, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):75–9 (5 ref.) **(Jpn)**

[Treatment of heart failure with beta–blockaders] Gundersen T, et al. **Tidsskr Nor Laegeforen** 1997 Feb 10;117(4):526–8 (30 ref.) (Eng. Abstr.) **(Nor)**

[Calcium channel blockers in heart failure] Hole T, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2329–32 (45 ref.) (Eng. Abstr.) **(Nor)**

[Contemporary views of pharmacologic treatment for congestive heart failure (editorial)] Halawa B. **Pol Merkuriusz Lek** 1996 Nov;1(5):299–302 **(Pol)**

[Beta–adrenergic receptor blockers in the treatment of chronic heart failure] Mularek–Kubzdela T, et al. **Pol Merkuriusz Lek** 1996 Aug;1(2):120–3 (40 ref.) (Eng. Abstr.) **(Pol)**

[Pharmacologic treatment of chronic congestive heart failure] Halawa B. **Przegl Lek** 1996;53(3):119–23 (33 ref.) (Eng. Abstr.) **(Pol)**

[When does the treatment with captopril show a better improvement in physical performance in patients with heart failure?] Canesin MF, et al. **Arq Bras Cardiol** 1996 Aug; 67(2):77–80 (Eng. Abstr.) **(Por)**

[Digitalis and its current importance in the treatment of heart failure (editorial)] Lopes AC. **Rev Assoc Med Bras** 1997 Jan–Mar;43(1):1–2 **(Por)**

[Pharmacological correction of impaired tolerance to strophanthin in a model of cardiac decompensation] Galenko–Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1994 May;117(5):487–90 **(Rus)**

[Changes in venous tonus in rats with heart failure during acute and chronic perindopril administration] Moleva EB, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):15–7 (Eng. Abstr.) **(Rus)**

[Administration of captopril (aceten++, ++"Vokhardt"++) in hypertension and congestive heart failure] Balakhonova NP, et al. **Klin Med (Mosk)** 1997; 75(1):42–3 **(Rus)**

[Essential phospholipids in combined therapy of chronic circulatory insufficiency] Golochevskaia VS, et al. **Klin Med (Mosk)** 1997;75(5):30–3 (Eng. Abstr.) **(Rus)**

[Neoton (exogenic phosphocreatinine) in combined therapy of chronic cardiac failure] Nedoshivin AO, et al. **Klin Med (Mosk)** 1996;74(9):45–8 (Eng. Abstr.) **(Rus)**

[Administration of energostim in severe chronic cardiac failure due to alcoholic damage of heart] Paleev NR, et al. **Klin Med (Mosk)** 1997;75(4):35–41 **(Rus)**

[The use of the antihypoxants olifen and amtizol for treating patients with chronic stage–IIB circulatory failure] Andrianov VP, et al. **Ter Arkh** 1996;68(5):74–8 (Eng. Abstr.) **(Rus)**

[The efficacy of treatment with the angiotensin–converting enzyme inhibitor ramipril in patients with congestive heart failure of rheumatic etiology] Karakin AA, et al. **Ter Arkh** 1996;68(2):43–6 **(Rus)**

[The systolic form of chronic congestive heart failure and its treatment (editorial)] Mazur NA. **Ter Arkh** 1996; 68(8):5–7 **(Rus)**

[ACE–inhibitors in the treatment of chronic heart failure: pathophysiologic principles of protective effects] Simko F, et al. **Bratisl Lek Listy** 1996 Oct;97(10):583–6 (Eng. Abstr.) **(Slo)**

[Cost–effectiveness analysis of the treatment with enalapril of chronic heart failure in Spain] Antoñanzas Villar F, et al. **Gac Sanit** 1996 May–Jun;10(54):135–42 (Eng. Abstr.) **(Spa)**

[Acute tubular necrosis caused by combination of diuretics in the treatment of several heart failure. A call to attention (letter)] de Luis DA, et al. **Rev Clin Esp** 1997 Aug; 197(8):592–3 **(Spa)**

[Carvedilol and heart failure: new findings (editorial)] Cosín Aguilar J. **Rev Esp Cardiol** 1996 Feb;49(2):85–7 **(Spa)**

[Neurohormonal factors in heart failure (and III)] Cosín Aguilar J, et al. **Rev Esp Cardiol** 1996 Jun;49(6):405–22 (101 ref.) (Eng. Abstr.) **(Spa)**

[Beta–blockers in cardiac insufficiency: should they always be considered in the therapeutic strategy? Arguments in favor] de Teresa E. **Rev Esp Cardiol** 1997 May;50(5):300–3 (23 ref.) (Eng. Abstr.) **(Spa)**

[Beta–blockers in cardiac insufficiency: should they always be considered in the therapeutic strategy? Arguments against] Ortigosa Aso J, et al. **Rev Esp Cardiol** 1997 May; 50(5):304–7 (21 ref.) (Eng. Abstr.) **(Spa)**

[Hepatitis and furosemide (letter)] Bellido Casado J, et al. **Rev Esp Enferm Dig** 1996 Nov;88(11):813–4 **(Spa)**

[Oral vasodilators in the treatment of congestive heart failure] Pérez–Olea J. **Rev Med Chil** 1996 Oct;124(10):1256–60 (16 ref.) (Eng. Abstr.) **(Spa)**

[Check ups during treatment with diuretics in hypertension and heart failure. Blood tests alone are not sufficient!] Fagerberg B. **Lakartidningen** 1997 Jan 15;94(3):118–9 (5 ref.) **(Swe)**

[A comparative study of the hemodynamic and antioxidant effects of Capoten and prazosin in patients with refractory heart failure] Sabadyshyn RO, et al. **Lik Sprava** 1997 Mar–Apr;(2):72–6 (Eng. Abstr.) **(Ukr)**

ECONOMICS

A cost–effectiveness analysis of enalapril maleate in the management of congestive heart failure in Australia. Butler JR, et al. **Aust N Z J Med** 1996 Feb;26(1):89–95

Effect of improved disease management strategies on hospital length of stay in the treatment of congestive heart failure. Simons WR, et al. **Clin Ther** 1996 Jul–Aug;18(4):726–46; discussion 702

Results of the economic evaluation of the first study. A multinational prospective economic evaluation. FIRST Investigators. Flolan International Randomized Survival Trial. Schulman KA, et al. **Int J Technol Assess Health Care** 1996 Fall;12(4):698–713

Budget cut for budget deficit versus beta–blocker for chronic heart failure [letter] Lee YC. **Md Med J** 1996 Feb;45(2):98

[Cost effectiveness of bisoprolol in heart failure. Economic evaluation of the Cardiac Insufficiency Bisoprolol Study (CIBIS) for Germany] Schädlich PK, et al. **Med Klin** 1997 Aug 15;92(8):499–504 (Eng. Abstr.) **(Ger)**

[Economical treatment of heart failure (editorial; comment)] Sonntag F. **Med Klin** 1996 Feb 15;91(2):111. Comment on: Med Klin 1996 Feb 15;91(2):112–8. **(Ger)**

[Cost effectiveness of captopril after myocardial infarct; comment] Szucs T, et al. **Med Klin** 1996 Feb 15;91(2):112–8 (Eng. Abstr.). Comment on: Med Klin 1996 Feb 15;91(2):111. **(Ger)**

[Cost effectiveness of ACE inhibition in therapy of chronic heart failure in Switzerland: evaluation based on the SOLVD study] Szucs TD, et al. **Schweiz Med Wochenschr** 1997 Jul 22;127(29–30):1234–41 (Eng. Abstr.) **(Ger)**

[Costs of chronic heart failure in spain] Antoñanzas Villar F, et al. **An Med Interna** 1997 Jan;14(1):9–14 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

SR Ca(2+)-ATPase activity and expression in ventricular myocardium of dogs with heart failure. Gupta RC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H12–8

Age–dependent augmentation of cardiac endothelial NOS in a genetic rat model of heart failure. Khadour FH, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1223–30

Differential changes in left and right ventricular adenylyl cyclase activities in congestive heart failure. Sethi R, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H884–93

Sarcoplasmic reticular Ca2+ pump ATPase activity in congestive heart failure due to myocardial infarction. Afzal N, et al. **Can J Cardiol** 1996 Oct;12(10):1065–73

Plasma semicarbazide-sensitive amine oxidase is elevated in patients with congestive heart failure. Boomsma F, et al. **Cardiovasc Res** 1997 Feb;33(2):387–91

A post-receptor defect of adenylyl cyclase in severely failing myocardium from children with congenital heart disease. Reithmann C, et al. **Eur J Pharmacol** 1997 Jul 2; 330(1):79–86

Oxy free radical system in heart failure and therapeutic role of oral vitamin E. Ghatak A, et al. **Int J Cardiol** 1996 Dec 6;57(2):119–27

Impaired coronary sensitivity to diltiazem in experimental heart failure: involvement of the cyclooxygenase but not the nitric oxide-synthase pathway. Tanguay M, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):232–9

Aorta and skeletal muscle NO synthase expression in experimental heart failure. Comini L, et al. **J Mol Cell Cardiol** 1996 Nov;28(11):2241–8

Identification of changes in cardiac phospholipase C activity in congestive heart failure. Meij JT, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):237–46

Canine cardiac digitalis receptors are preserved in congestive heart failure induced by rapid ventricular pacing. Barbey O, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):447–58

Human myocardial Na,K-ATPase concentration in heart failure. Bundgaard H, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:277–83 (26 ref.)

Decreased expression of cardiac sarcoplasmic reticulum Ca(2+)-pump ATPase in congestive heart failure due to myocardial infarction. Zarain-Herzberg A, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:285–90

[Correction with cordaron of changes in beta-glucosidase activity induced by toxic effect of strophanthin K and simulated heart decompensation] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):645–7 **(Rus)**

EPIDEMIOLOGY

Evolving trends in the epidemiologic factors of heart failure: rationale for preventive strategies and comprehensive disease management. Massie BM, et al. **Am Heart J** 1997 Jun;133(6):703–12 (52 ref.)

The prevalence, aetiology and management of heart failure [letter; comment] Sutton GC, et al. **Br J Gen Pract** 1996 Sep;46(410):551. Comment on: Br J Gen Pract 1996 Feb;46(403):77–9.

Hypertension and heart failure: the link continues [editorial] Edwards BS, et al. **Chest** 1997 Jul;112(1):9–10

Coupling of hemodynamic measurements with oxygen during exercise does not improve risk stratification in patients with heart failure [letter] Wilson JR, et al. **Circulation** 1997 Sep 16;96(6):2095–7

The heart failure epidemic: magnitude of the problem and potential mitigating approaches [editorial] Massie BM, et al. **Curr Opin Cardiol** 1996 May;11(3):221–6 (41 ref.)

Association between ambient carbon monoxide levels and hospitalizations for congestive heart failure in the elderly in 10 Canadian cities. Burnett RT, et al. **Epidemiology** 1997 Mar;8(2):162–7

The epidemiology of heart failure. Cowie MR, et al. **Eur Heart J** 1997 Feb;18(2):208–25 (160 ref.)

National trends in the initial hospitalization for heart failure. Croft JB, et al. **J Am Geriatr Soc** 1997 Mar;45(3):270–5

Epidemiology, pathophysiology, and etiology of congestive heart failure in older adults. Rich MW. **J Am Geriatr Soc** 1997 Aug;45(8):968–74 (48 ref.)

Congestive heart failure in old age: prevalence, mechanisms and 4-year prognosis in the Helsinki Ageing Study. Kupari M, et al. **J Intern Med** 1997 May;241(5):387–94

Clinical and etiopathogenetic profile of heart failure in the First Medical Clinic of Cluj-Napoca. A study of 5 years. Olinic N, et al. **Rom J Intern Med** 1996 Jan–Jun; 34(1–2):19–25

[Epidemiology of cardiac failure and current prognosis of the most seriously ill patients] Isnard R, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:9–13 (21 ref.) (Eng. Abstr.) **(Fre)**

[Epidemiologic features of congestive heart failure. Retrospective analysis of 2561 hospitalizations] Ferreira A, et al. **Rev Port Cardiol** 1996 May;15(5):395–410, 364–5 (Eng. Abstr.) **(Por)**

ETIOLOGY

Renal artery stenosis complicated by hypertensive heart disease in a young child: successful therapy by balloon angioplasty. Liang CD, et al. **Am Heart J** 1996 Nov; 132(5):1077–9

Clinical characteristics and long-term outcome of patients in whom congestive heart failure develops after thrombolytic therapy for acute myocardial infarction: development of a predictive model. O'Connor CM, et al. **Am Heart J** 1997 Jun;133(6):663–73

Transition from compensatory hypertrophy to dilated failing left ventricle in Dahl-Iwai salt-sensitive rats. Kihara Y, et al. **Am J Hypertens** 1997 May;10(5 Pt 2):78S–82S

Case report: reversible systolic heart failure and deep jaundice in hyperthyroidism. Lee TM, et al. **Am J Med Sci** 1996 Nov;312(5):246–8

Acute right-sided heart failure due to hemorrhage into a pericardial cyst. Borges AC, et al. **Ann Thorac Surg** 1997 Mar;63(3):845–7

Prosthetic mitral valve replacement: late complications after native valve preservation [see comments] Esper E, et al. **Ann Thorac Surg** 1997 Feb;63(2):541–3. Comment in: Ann Thorac Surg 1997 Aug;64(2):593–4.

From left ventricular dysfunction to heart failure. Cleland JG. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1397–402 (20 ref.)

Activated tissue renin-angiotensin systems add to the progression of heart failure. Pinto YM, et al. **Basic Res Cardiol** 1996;91 Suppl 2:85–90 (25 ref.)

Heart or lung failure: what causes exertional, high altitude, and cold immersion pulmonary oedema? [editorial] Pedoe DT. **Br J Sports Med** 1995 Dec;29(4):218–20

Myocardial infarct size is smaller in dogs with pacing-induced heart failure. Hoskins DE, et al. **Cardiovasc Res** 1996 Aug;32(2):238–47

'Til death do us part: a case of failed affection [comment] Waber KT. **Cardiovasc Res** 1995 Jul;30(1):26. Comment on: Cardiovasc Res 1995 Jul;30(1):27–30.

Electrophysiological remodeling of the heart owing to rate [editorial; comment] Zipes DP. **Circulation** 1997 Apr 1; 95(7):1745–8. Comment on: Circulation 1997 Apr 1;96(7):1945–53.

Increased ventricular sialylation in patients with heart failure secondary to ischemic heart disease. Crook JR, et al. **Clin Cardiol** 1997 May;20(5):455–8

Severe right heart failure in a patient with Grave's disease. Xenopoulos NP, et al. **Clin Cardiol** 1996 Nov;19(11):903–5

Molecular and cellular biology of heart failure. Schwartz K, et al. **Curr Opin Cardiol** 1996 May;11(3):227–36 (75 ref.)

The cellular pathophysiology of progression to heart failure. Wagoner LE, et al. **Curr Opin Cardiol** 1996 May; 11(3):237–44 (33 ref.)

Mechanisms of subcellular remodelling in post-infarct heart failure. Dhalla NS, et al. **EXS** 1996;76:463–77 (75 ref.)

Nitric oxide in coronary artery disease: roles in atherosclerosis, myocardial reperfusion and heart failure. Dusting GJ. **EXS** 1996;76:33–55 (108 ref.)

Hypertension, hypertrophy, heart failure. Nicholls MG. **Heart** 1996 Nov;76(3 Suppl 3):92–7 (79 ref.)

Angiotensin II in the evolution of experimental heart failure. Luchner A, et al. **Hypertension** 1996 Sep;28(3):472–7

Congestive cardiac failure and electrocardiographic abnormalities in acute glomerulonephritis. Banapurmath CR, et al. **Indian Pediatr** 1996 Jul;33(7):589–92

Heart failure in Nigerian hypertensive patients: the role of renal dysfunction. Obasohan AO, et al. **Int J Cardiol** 1995 Dec;52(3):251–5

Acute right heart failure due to adenotonsillar hypertrophy. Sie KC, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jul 18; 41(1):53–8

Aortic valve rupture--an unsuspected cause of acute cardiac failure after chest trauma [letter] Loeb T, et al. **Intensive Care Med** 1996 Jul;22(7):714–5

Changes in beta-adrenoceptors and G-proteins during the transition from cardiac hypertrophy to heart failure. Flesch M, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S35–43 (64 ref.)

Newer aspects of pathogenesis of heart failure: hepatitis C virus infection in myocarditis and cardiomyopathy. Matsumori A, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S187–94 (37 ref.)

Basic mechanisms in heart failure: the cytokine hypothesis. Seta Y, et al. **J Card Fail** 1996 Sep;2(3):243–9 (39 ref.)

GC/MS comparison of the West Indian aphrodisiac "Love Stone" to the Chinese medication "chan su": bufotenine and related bufadienolides. Barry TL, et al. **J Forensic Sci** 1996 Nov;41(6):1068–73

Suicidal chloroquine poisoning: clinical course, autopsy findings, and chemical analysis. Muhm M, et al. **J Forensic Sci** 1996 Nov;41(6):1077–9

Pulmonary hypertension in severe congestive heart failure: how important is it? Hunt SA. **J Heart Lung Transplant** 1997 Jun;16(6):S13–5 (21 ref.)

The identification of contributory mechanisms for the development and progression of congestive heart failure in animal models. Iannini JP, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1138–50 (124 ref.)

Predictors and determinants of hospital length of stay in congestive heart failure in ten community hospitals. Philbin EF, et al. **J Heart Lung Transplant** 1997 May;16(5):548–55

Outcome after surgery for mitral regurgitation. Determinants of postoperative morbidity and mortality. Dujardin KS, et al. **J Heart Valve Dis** 1997 Jan;6(1):17–21

How common is heart failure due to systemic hypertension alone in hospitalised Nigerians? Obasohan AO, et al. **J Hum Hypertens** 1996 Dec;10(12):801–4

Long-term nitrate treatment increases cardiac events in patients with healed myocardial infarction. Secondary Prevention Group. Ishikawa K, et al. **Jpn Circ J** 1996 Oct; 60(10):779–88

Prediction of heart failure - an art aided by technology [editorial; comment] Poole-Wilson PA. **N Engl J Med** 1997 May 8;336(19):1381–2. Comment on: N Engl J Med 1997 May 8;336(19):1350–5.

Left ventricular dilatation and the risk of congestive heart failure in people without myocardial infarction [see comments] Vasan RS, et al. **N Engl J Med** 1997 May 8; 336(19):1350–5. Comment in: N Engl J Med 1997 May 8;336(19):1381–2.

Hyperreninemia, hypertension, and congestive heart failure in focal interstitial nephritis. Matsui A, et al. **Nephron** 1996; 74(2):405–8

Cardiac and respiratory involvement in advanced stage Duchenne muscular dystrophy. Melacini P, et al. **Neuromuscul Disord** 1996 Oct;6(5):367–76

Heart failure secondary to left ventricular systolic dysfunction. Therapeutic advances and treatment recommendations. Dracup K. **Nurse Pract** 1996 Sep; 21(9):56–8, 61, 65–8 (30 ref.)

Congestive heart failure caused by Wilms' tumor. Agarwala B, et al. **Pediatr Cardiol** 1997 Jan–Feb;18(1):43–4

Tissue iron storage patterns in fetal hydrops associated with congestive heart failure. Silver MM, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug;16(4):563–82

Causes of congestive heart failure. Prompt diagnosis may affect prognosis. Bales AC, et al. **Postgrad Med** 1997 Jan; 101(1):44–9, 54–6 (19 ref.)

Severe refractory congestive cardiac failure in an elderly man. O'Neill B, et al. **Postgrad Med J** 1997 May; 73(859):315–6

Repair of a ruptured sinus of Valsalva aneurysm. Associated with annuloaortic ectasia and coarctation of the aorta in a patient with Marfan syndrome. Tesler UF, et al. **Tex Heart Inst J** 1997;24(2):134–8

[Chronic constrictive pericarditis apropos of 3 cases disclosed by refractory cardiac failure] Quéré JP, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1651–8 (Eng. Abstr.) **(Fre)**

[Flecaine: drug of choice for supraventricular tachycardias with anasarca. A case report] Hamel P, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):37–9 (Eng. Abstr.) **(Fre)**

[Heart failure and arterial hypertension disclosing amyloidosis] Habbal R, et al. **Nephrologie** 1997;18(3):91–4 (Eng. Abstr.) **(Fre)**

[Growth hormone--a pathogenetic factor in chronic congestive heart failure? (letter)] Dreifuss PM. **Dtsch Med Wochenschr** 1996 Oct 11;121(41):1279 **(Ger)**

[Immunogenic hyperthyroidism with hyperdynamic heart failure and early cirrhotic transformation of the liver] Fischer MR, et al. **Dtsch Med Wochenschr** 1997 Mar 14; 122(11):323–7 (Eng. Abstr.) **(Ger)**

[Therapy of heart failure. I. Definition, pathophysiology, therapy of acute heart failure] Schwinger RH, et al. **Fortschr Med** 1997 Jun 10;115(16):30–4 (0 ref.) (Eng. Abstr.) **(Ger)**

[Thiamine-deficiency cardiopathy: a rare cause of cardiac failure in childhood] Minneci C, et al. **Cardiologia** 1996 Sep;41(9):883–6 (Eng. Abstr.) **(Ita)**

[An elderly patient with infectious endocarditis complicated with congestive heart failure due to mitral and tricuspid regurgitation] Kitamura T, et al. **J Cardiol** 1997;29 Suppl 2:131–5 (Eng. Abstr.) **(Jpn)**

[A case of valve thrombosis of CarboMedics prosthesis four years after mitral valve replacement: relationship of anticoagulant therapy to coagulation and fibrinolysis activating factors] Morishita A, et al. **Kyobu Geka** 1996 Oct;49(11):933–7 (Eng. Abstr.) **(Jpn)**

[Underlaying disease and etiology of heart failure] Nakano T, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10; 83(1):27–30 (3 ref.) **(Jpn)**

[Atrial septal defect with tricuspid valve regurgitation and heart failure in early childhood: report of a case with successful surgical management consisting of special patch closure technique and use of polydioxanone suture for the tricuspid annuloplasty] Takayama T, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):301–4 (Eng. Abstr.) **(Jpn)**

[Post infarction (congestive) heart failure] Degawa T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):46–50 (25 ref.) **(Jpn)**

[Cardiac failure with muscle diseases] Igarashi K. **Ryoikibetsu Shokogun Shirizu** 1996;(12):30–2 (5 ref.) **(Jpn)**

[A problem with qualifying for heart surgery for a patient with severe congestive heart failure in both ventricles in the course of left aortic stenosis] Lukasik-Madej B, et al. **Pol Arch Med Wewn** 1995 Nov;94(5):447–50 (Eng. Abstr.) **(Pol)**

[Classical pacemaker syndrome. Report of 2 cases with severe clinical manifestations] Leandro J, et al. **Rev Port Cardiol** 1996 May;15(5):425–30, 366 (Eng. Abstr.) **(Por)**

[Guideline 2. Etiologic diagnosis of heart insufficiency. Identification and treatment of reversible causes] Navarro-López F, et al. **Rev Esp Cardiol** 1997;50 Suppl 1:9–14 (Eng. Abstr.) **(Spa)**

[Severe cardiac failure as complication of primary hypothyroidism] Novik V, et al. **Rev Med Chil** 1996 Oct; 124(10):1248–50 (Eng. Abstr.) **(Spa)**

[A fatal case of chronic Q fever with cardiovascular involvement] Kushnir ZH, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):170–3 (10 ref.) (Eng. Abstr.) **(Ukr)**

GENETICS

Age-dependent augmentation of cardiac endothelial NOS in a genetic rat model of heart failure. Khadour FH, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1223–30

Dystrophies and heart disease. Cox GF, et al. **Curr Opin Cardiol** 1997 May;12(3):329–43 (112 ref.)

Mitochondrial cardiomyopathy [letter] Morgan KG, et al. **Eur Heart J** 1996 Oct;17(10):1600

[Molecular biology and cardiology. Molecular mechanisms

in heart failure] Sheikh SP, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2523–8 (20 ref.) **(Dan)**

IMMUNOLOGY

Predictors of natural killer cell–mediated cytotoxicity deficiency in advanced heart failure secondary to either ischemic or idiopathic dilated cardiomyopathy. Doering LV, et al. **Am J Cardiol** 1997 Jul 15;80(2):234–6

Plasma cytokine levels in cardiac chambers of patients with mitral stenosis with congestive heart failure. Ikeda U, et al. **Cardiology** 1996 Nov–Dec;87(6):476–80

The role of cytokines in disease progression in heart failure. Shan K, et al. **Curr Opin Cardiol** 1997 May;12(3):218–23 (54 ref.)

METABOLISM

Assessment of oxygen uptake during the 6-minute walking test in patients with heart failure: preliminary experience with a portable device. Faggiano P, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):203–6

Oxygen transport to muscle during exercise in chronic congestive heart failure secondary to idiopathic dilated cardiomyopathy. Agostoni P, et al. **Am J Cardiol** 1997 Apr 15;79(8):1120–4

Angiotensin-converting enzyme inhibitors promote nitric oxide production in coronary microvessels from failing explanted human hearts. Kichuk MR, et al. **Am J Cardiol** 1997 Aug 4;80(3A):137A–142A

Myosin heavy chain synthesis is increased in a rabbit model of heart failure. Eble DM, et al. **Am J Physiol** 1997 Feb; 272(2 Pt 2):H969–78

Subcellular compartmentalization of Gs alpha in cardiac myocytes and its redistribution in heart failure. Nash JA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2209–17

Adenylyl cyclase and G protein receptor kinase expression during development of heart failure. Ping P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H707–17

Daily energy expenditure in free-living heart failure patients. Toth MJ, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):E469–75

Chronic opiate-receptor inhibition in experimental congestive heart failure in dogs. Yatani A, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H478–84

Effects of toborinone on myocardial oxygen consumption in pacing-induced heart failure dogs. Itoh S, et al. **Arzneimittelforschung** 1996 Dec;46(12):1105–9

Role of G-proteins in altered beta-adrenergic responsiveness in the failing and hypertrophied myocardium. Böhm M, et al. **Basic Res Cardiol** 1996;91 Suppl 2:47–51 (30 ref.)

Beta-adrenergic receptors in failing human myocardium. Brodde OE. **Basic Res Cardiol** 1996;91 Suppl 2:35–40 (39 ref.)

Calcium cycling proteins and force-frequency relationship in heart failure. Hasenfuss G, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:17–22 (31 ref.)

Adaptive and genetic alterations of the renin angiotensin system in cardiac hypertrophy and failure. Holmer SR, et al. **Basic Res Cardiol** 1996;91 Suppl 2:65–71 (53 ref.)

Mechanisms of beta-adrenergic receptor desensitization: from molecular biology to heart failure. Lohse MJ, et al. **Basic Res Cardiol** 1996;91 Suppl 2:29–34 (62 ref.)

Subtype 2 and atypical angiotensin receptors in the human heart. Regitz-Zagrosek V, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:73–7 (18 ref.)

Quantification of the cAMP response element binding protein in ventricular nuclear protein from failing and nonfailing human hearts. Müller FU, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):351–4

Endothelin-1 in heart and pulmonary tissue in experimental heart failure. Sirviö ML, et al. **Blood Press** 1997 Jul; 6(4):250–5

Effects of inhibition of sarcoplasmic reticulum calcium uptake on contraction in myocytes isolated from failing human ventricle. Davia K, et al. **Cardiovasc Res** 1997 Jan; 33(1):88–97

Inappropriate ubiquitin conjugation: a proposed mechanism contributing to heart failure. Field ML, et al. **Cardiovasc Res** 1997 Jan;33(1):8–12

Does a hypertonic saline load predict fluid retention in pacing induced heart failure? Fu Y, et al. **Cardiovasc Res** 1997 Jan;33(1):172–80

Congestive heart failure: increased cardiac and extracardiac atrial natriuretic peptide gene expression. Poulos JE, et al. **Cardiovasc Res** 1996 Nov;32(5):909–19

Cardiac Na+/Ca2+ exchange activity in patients with end-stage heart failure. Reinecke H, et al. **Cardiovasc Res** 1996 Jan;31(1):48–54

Hormonal changes and catabolic/anabolic imbalance in chronic heart failure and their importance for cardiac cachexia. Anker SD, et al. **Circulation** 1997 Jul 15; 96(2):526–34

Selective downregulation of the angiotensin II AT1-receptor subtype in failing human ventricular myocardium [see comments] Asano K, et al. **Circulation** 1997 Mar 4; 95(5):1193–200. Comment in: Circulation 1997 Mar 4;95(5):1104–7.

AT1 and AT2 angiotensin receptor gene expression in human heart failure. Haywood GA, et al. **Circulation** 1997 Mar 4;95(5):1201–6

Role of renal dopaminergic activity on renal sodium-water metabolism in congestive heart failure. Hayashi M, et al. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov;23(10–11):874–7

Beta-adrenoceptor desensitization during the development of canine pacing-induced heart failure. Vatner DE, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):688–92

Effective water clearance and tonicity balance: the excretion of water revisited. Mallie JP, et al. **Clin Invest Med** 1997 Feb;20(1):16–24

Tissue expression of components of the renin-angiotensin system in experimental post-infarction heart failure in rats: effects of heart failure and angiotensin-converting enzyme inhibitor treatment. Kelly MP, et al. **Clin Sci (Colch)** 1997 May;92(5):455–65

Neutral endopeptidase inhibition: augmented atrial and brain natriuretic peptide, haemodynamic and natriuretic responses in ovine heart failure. Rademaker MT, et al. **Clin Sci (Colch)** 1996 Sep;91(3):283–91

Comparative bioactivity of atrial and brain natriuretic peptides in an ovine model of heart failure. Rademaker MT, et al. **Clin Sci (Colch)** 1997 Feb;92(2):159–65

Pharmacokinetics of flosequinan in patients with heart failure. Nicholls DP, et al. **Eur J Clin Pharmacol** 1996;50(4):289–91

Elevated myocardial interstitial norepinephrine concentration contributes to the regulation of Na+,K(+)-ATPase in heart failure. Lai LP, et al. **Eur J Pharmacol** 1996 Aug 15;309(3):235–41

Differential changes of myocardial beta-adrenoceptor subtypes and G-proteins in dogs with right-sided congestive heart failure. Lai LP, et al. **Eur J Pharmacol** 1996 Aug 8;309(2):201–8

Abnormalities of skeletal muscle metabolism in patients with chronic heart failure: evidence that they are present at rest. Andrews R, et al. **Heart** 1997 Feb;77(2):159–63

Endothelin in heart failure: a promising therapeutic target? [editorial] Love MP, et al. **Heart** 1997 Feb;77(2):93–4

Specific changes in skeletal muscle myosin heavy chain composition in cardiac failure: differences compared with disuse atrophy as assessed on microbiopsies by high resolution electrophoresis. Vescovo G, et al. **Heart** 1996 Oct;76(4):337–43

Region-specific neuropeptide Y overflows at rest and during sympathetic activation in humans. Morris MJ, et al. **Hypertension** 1997 Jan;29(1 Pt 1):137–43

Intrarenal determinants of sodium retention in mild heart failure: effects of angiotensin-converting enzyme inhibition. Volpe M, et al. **Hypertension** 1997 Aug;30(2 Pt 1):168–76

Endogenous sodium-potassium-chloride cotransport inhibitor in congestive heart failure. Dubois-Randé JL, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1464–70

Contribution of PO2, P50, and Hb to changes in arteriovenous O2 content during exercise in heart failure. Perego GB, et al. **J Appl Physiol** 1996 Feb;80(2):623–31

Decreased [3H]ouabain binding sites in skeletal muscle of rats with chronic heart failure. Pickar JG, et al. **J Appl Physiol** 1997 Jul;83(1):323–7

Pharmacokinetics of levosimendan in healthy volunteers and patients with congestive heart failure. Sandell EP, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S57–62

Upregulation of aquaporin-2 water channel expression in chronic heart failure rat. Xu DL, et al. **J Clin Invest** 1997 Apr 1;99(7):1500–5

Disposition of procainamide in patients with chronic congestive heart failure receiving medical therapy. Tisdale JE, et al. **J Clin Pharmacol** 1996 Jan;36(1):35–41

Pharmacokinetics of intravenous amiodarone in patients with impaired left ventricular function [published erratum appears in J Clin Pharmacol 1997 Jan;37(1):73–5] Vadiei K, et al. **J Clin Pharmacol** 1996 Aug;36(8):720–7

Skeletal muscle metabolism in experimental heart failure. Bernocchi P, et al. **J Mol Cell Cardiol** 1996 Nov; 28(11):2263–73

Localization of alpha1(I) collagen mRNA in myocardium from the spontaneously hypertensive rat during the transition from compensated hypertrophy to failure. Bing OH, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2335–44

The role of the cytoskeleton in left ventricular pressure overload hypertrophy and failure. Collins JF, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1435–43

Changes in essential myosin light chain isoform expression provide a molecular basis for isometric force regulation in the failing human heart. Morano I, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1177–87

Alterations in skeletal muscle gene expression in the rat with chronic congestive heart failure. Simonini A, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1683–91

Changes in myofibrillar protein composition of human diaphragm elicited by congestive heart failure. Tikunov BA, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2537–41

Reduced atrial angiotensin receptor type 1 mRNA content in end-stage human heart failure: assessment by a novel quantitative PCR-ELISA technique. Bauer P, et al. **J Mol Med** 1996 Aug;74(8):447–54

Sarcoplasmic reticulum Ca2+ATPase and phospholamban mRNA and protein levels in end-stage heart failure due to ischemic or dilated cardiomyopathy. Flesch M, et al. **J Mol Med** 1996 Jun;74(6):321–32

ACE inhibition reduces cardiac iodine-123-MIBG release in heart failure. Takeishi Y, et al. **J Nucl Med** 1997 Jul; 38(7):1085–9

Abnormal beta-adrenergic transmembrane signaling in rabbits with adriamycin-induced cardiomyopathy. Nagami K, et al. **Jpn Circ J** 1997 Mar;61(3):249–55

Blunted cGMP response to agonists and enhanced glomerular cyclic 3',5'-nucleotide phosphodiesterase activities in experimental congestive heart failure. Supaporn T, et al. **Kidney Int** 1996 Nov;50(5):1718–25

Sodium and water retention in heart failure: pathogenesis and treatment. Martin PY, et al. **Kidney Int Suppl** 1997 Jun;59:S57–61 (39 ref.)

The ryanodine binding sarcoplasmic reticulum calcium release channel in nonfailing and in failing human myocardium. Schumacher C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):80–5

Tissue iron storage patterns in fetal hydrops associated with congestive heart failure. Silver MM, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug;16(4):563–82

Direct comparison of three methods for predicting digoxin concentrations. Williams PJ, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1085–92

Congestive heart failure in rats is associated with increased expression and targeting of aquaporin-2 water channel in collecting duct. Nielsen S, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5450–5

Effect of prostaglandin E1 infusion in severe chronic heart failure. Pacher R, et al. **Prostaglandins** 1997 Apr; 53(4):221–35

Some adverse cardiodynamic effects of prostaglandin E2 in congestive heart failure. Schutte PJ, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Mar; 54(3):207–10

Thyroid hormone abnormalities in heart failure: possibilities for therapy. Hamilton MA, et al. **Thyroid** 1996 Oct; 6(5):527–9 (22 ref.)

[Endothelial factors and cardiac insufficiency] Burnier M. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):242–5 (14 ref.) (Eng. Abstr.) **(Fre)**

[Mechanisms facilitating oxygen delivery during exercise in patients with chronic heart failure] Agostoni P, et al. **Cardiologia** 1997 Jul;42(7):743–50 (Eng. Abstr.) **(Ita)**

[Metabolism and function of peripheral muscles in heart failure: pharmacologic effects] Ferrari R. **Cardiologia** 1995 Dec;40(12 Suppl 1):45–8 **(Ita)**

[Heart failure and circulatory peptides] Hirata Y. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):9–15 (8 ref.) **(Jpn)**

[Heart failure and circulatory control peptides] Takeshita A. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):138–42 (10 ref.) **(Jpn)**

[Characteristic of oxidative metabolism and microsomal enzyme system of the liver in patients with chronic circulation insufficiency] Iuldasheva FI. **Klin Med (Mosk)** 1997;75(4):24–5 (Eng. Abstr.) **(Rus)**

[Serum and urinary concentrations of magnesium in patients with chronic heart failure] Spišák V. **Vnitr Lek** 1996 Oct; 42(10):680–3 (Eng. Abstr.) **(Slo)**

MORTALITY

Effects of amiodarone on the circadian pattern of sudden cardiac death (Department of Veterans Affairs Congestive Heart Failure–Survival Trial of Antiarrhythmic Therapy). Behrens S, et al. **Am J Cardiol** 1997 Jul 1;80(1):45–8

Correlates of early hospital readmission or death in patients with congestive heart failure. Chin MH, et al. **Am J Cardiol** 1997 Jun 15;79(12):1640–4

Effect of antithrombotic therapy on risk of sudden coronary death in patients with congestive heart failure. Dries DL, et al. **Am J Cardiol** 1997 Apr 1;79(7):909–13

Ability of heart rate variability to predict prognosis in patients with advanced congestive heart failure. Jiang W, et al. **Am J Cardiol** 1997 Sep 15;80(6):808–11

Baseline quality of life as a predictor of mortality and hospitalization in 5,025 patients with congestive heart failure. SOLVD Investigations. Studies of Left Ventricular Dysfunction Investigators. Konstam V, et al. **Am J Cardiol** 1996 Oct 15;78(8):890–5

Exercise-related ventilatory abnormalities and survival in congestive heart failure. MacGowan GA, et al. **Am J Cardiol** 1997 May 1;79(9):1264–6

Depressed heart rate variability as an independent predictor of death in chronic congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Ponikowski P, et al. **Am J Cardiol** 1997 Jun 15;79(12):1645–50

Prognostic value of heart rate variability in chronic congestive heart failure secondary to idiopathic or ischemic dilated cardiomyopathy. Szabó BM, et al. **Am J Cardiol** 1997 Apr 1;79(7):978–80

Six-minute walk test and heart rate variability: lack of association in advanced stages of heart failure. Woo MA, et al. **Am J Crit Care** 1997 Sep;6(5):348–54

Physicians' survival predictions for patients with acute congestive heart failure. Poses RM, et al. **Arch Intern Med** 1997 May 12;157(9):1001–7

Why do ninety-seven thousand people have to die? [editorial] Kloff WJ. **Artif Organs** 1996 Dec;20(12):1263–5

Cause-specific noncardiac mortality in patients with congestive heart failure--a contemporary Canadian audit. Clinical Quality Improvement Network (CQIN) Investigators. Ackman ML, et al. **Can J Cardiol** 1996 Sep; 12(9):809–13

Nonsustained ventricular tachycardia in severe heart failure. Independent marker of increased mortality due to sudden death. GESICA-GEMA Investigators. Doval HC, et al. **Circulation** 1996 Dec 15;94(12):3198–203

Predicting survival in heart failure case and control subjects by use of fully automated methods for deriving nonlinear

and conventional indices of heart rate dynamics. Ho KK, et al. **Circulation** 1997 Aug 5;96(3):842–8

The design of the Mortality Assessment in Congestive Heart Failure Trial (MACH–1, mibefradil). Levine TB. **Clin Cardiol** 1997 Apr;20(4):320–6

Mode of death in chronic heart failure. A request and proposition for more accurate classification. Narang R, et al. **Eur Heart J** 1996 Sep;17(9):1390–403 (47 ref.)

Serum C–reactive protein concentration in acute myocardial infarction and its relationship to mortality during 24 months of follow–up in patients under thrombolytic treatment. Pietilä KO, et al. **Eur Heart J** 1996 Sep;17(9):1345–9

The relationship between hospital length of stay and rate of death in heart failure. Philbin EF, et al. **Heart Lung** 1997 May–Jun;26(3):177–86

Digoxin therapy and survival in heart failure in sinus rhythm. Banerjee AK, et al. **Int J Cardiol** 1996 Jul 5;55(1):9–13

Non–invasive prognostic factors in chronic heart failure. One–year survival of 300 patients with a diagnosis of chronic heart failure due to ischemic heart disease or dilated cardiomyopathy. Spinar J, et al. **Int J Cardiol** 1996 Oct 25;56(3):283–8

Relation between gender, etiology and survival in patients with symptomatic heart failure. Adams KF Jr, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1781–8

Effect of beta–blockade on mortality in patients with heart failure: a meta–analysis of randomized clinical trials. Heidenreich PA, et al. **J Am Coll Cardiol** 1997 Jul; 30(1):27–34

Heart rate is a marker of amiodarone mortality reduction in severe heart failure. The GESICA–GEMA Investigators. Grupo de Estudio de la Sobrevida en la Insuficiencia Cardiaca en Argentina–Grupo de Estudios Multicéntricos en Argentina. Nul DR, et al. **J Am Coll Cardiol** 1997 May;29(6):1199–205

Outcomes for older men and women with congestive heart failure. Burns RB, et al. **J Am Geriatr Soc** 1997 Mar; 45(3):276–80

The sequelae of hospitalization for congestive heart failure among older adults. Wolinsky FD, et al. **J Am Geriatr Soc** 1997 May;45(5):558–63

Prognosis in congestive heart failure. Cohn JN. **J Card Fail** 1996 Dec;2(4 Suppl):S225–9 (25 ref.)

Plasma N–terminal atrial natriuretic factor: a predictor of survival in patients with congestive heart failure. Dickstein K, et al. **J Card Fail** 1997 Jun;3(2):83–9

Plasma endothelin in congestive heart failure: a predictor of cardiac death? Galatius–Jensen S, et al. **J Card Fail** 1996 Jun;2(2):71–6

Ischaemic heart disease deaths in a Japanese rural area evaluated by clinical records. Naruse Y, et al. **J Epidemiol** 1997 Jun;7(2):71–6

Digoxin in heart failure. Chadwell M, et al. **J Fam Pract** 1997 May;44(5):442

Long–term outcome, survival analysis, and risk stratification of dynamic cardiomyoplasty. Furnary AP, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1640–9; discusion 1649–50

Wasting as independent risk factor for mortality in chronic heart failure [published erratum appears in Lancet 1997 Apr 26;349(9060):1258] Anker SD, et al. **Lancet** 1997 Apr 12;349(9058):1050–3

Randomised study of effect of ibopamine on survival in patients with advanced severe heart failure. Second Prospective Randomised Study of Ibopamine on Mortality and Efficacy (PRIME II) Investigators [see comments] Hampton JR, et al. **Lancet** 1997 Apr 5;349(9057):971–7. Comment in: Lancet 1997 Apr 5;349(9057):966–7. Comment in: Lancet 1997 Jul 12;350(9071):147. Comment in: Lancet 1997 Jul 12;350(9071):147–8.

NURSING

'Maintaining the balance'—nursing care of patients with chronic heart failure. Jaarsma T, et al. **Int J Nurs Stud** 1997 Jun;34(3):213–21 (32 ref.)

Disease management for chronic congestive heart failure. Brass–Mynderse NJ. **J Cardiovasc Nurs** 1996 Oct; 11(1):54–62

Considerations related to disability and exercise in elderly women with congestive heart failure. Guerra–Garcia H, et al. **J Cardiovasc Nurs** 1997 Jul;11(4):60–74 (86 ref.)

Factors contributing to rehospitalization of elderly patients with heart failure. Happ MB, et al. **J Cardiovasc Nurs** 1997 Jul;11(4):75–84

PATHOLOGY

Characteristics of chronic left ventricular dysfunction induced by coronary embolization in a canine model. Blaustein AS, et al. **Am J Cardiovasc Pathol** 1995;5(1):32–48

Case report: lysosomal glycogen storage disease with normal acid maltase: an unusual form of hypertrophic cardiomyopathy with rapidly progressive heart failure. Tse HF, et al. **Am J Med Sci** 1996 Oct;312(4):182–6

Increased cardiomyocyte apoptosis during the transition to heart failure in the spontaneously hypertensive rat. Li Z, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2313–9

Lipomatous metaplasia in left ventricular scar. Baroldi G, et al. **Can J Cardiol** 1997 Jan;13(1):65–71

Tachycardia–induced failure alters contractile properties of canine ventricular myocytes. Ravens U, et al. **Cardiovasc Res** 1996 Sep;32(3):613–21

Myocyte death in heart failure. Anversa P, et al. **Curr Opin Cardiol** 1996 May;11(3):245–51 (55 ref.)

Histological abnormalities of muscle from limb, thorax and diaphragm in chronic heart failure. Lindsay DC, et al. **Eur Heart J** 1996 Aug;17(8):1239–50

Skeletal muscle alterations in patients with chronic heart failure. Schaufelberger M, et al. **Eur Heart J** 1997 Jun; 18(6):971–80

Mechanisms of subcellular remodelling in post–infarct heart failure. Dhalla NS, et al. **EXS** 1996;76:463–77 (75 ref.)

Ten–year experience with endomyocardial biopsy in myocarditis presenting with congestive heart failure: frequency, pathologic characteristics, treatment and follow–up. Arbustini E, et al. **G Ital Cardiol** 1997 Mar; 27(3):209–23

Myocyte remodeling during the progression to failure in rats with hypertension. Gerdes AM, et al. **Hypertension** 1996 Oct;28(4):609–14

Abnormalities of cardiocytes in regions bordering fibrous scars of dogs with heart failure. Sharov VG, et al. **Int J Cardiol** 1997 Aug 8;60(3):273–9

Effects of endurance training on mitochondrial ultrastructure and fiber type distribution in skeletal muscle of patients with stable chronic heart failure. Hambrecht R, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1067–73

Remodeling after myocardial infarction in humans is not associated with interstitial fibrosis of noninfarcted myocardium. Marijianowski MM, et al. **J Am Coll Cardiol** 1997 Jul;30(1):76–82

Myocardial infarction as a problem of growth control: cell cycle therapy for cardiac myocytes? Schneider MD. **J Card Fail** 1996 Sep;2(3):259–63 (32 ref.)

Pathologic findings of latissimus dorsi muscle graft in dynamic cardiomyoplasty: clinical implications. Misawa Y, et al. **J Heart Lung Transplant** 1997 Jun;16(6):585–95

Apoptosis in myocytes in end–stage heart failure [see comments] Narula J, et al. **N Engl J Med** 1996 Oct 17; 335(16):1182–9. Comment in: N Engl J Med 1996 Oct 17;335(16):1224–6. Comment in: N Engl J Med 1997 Apr 3;336(14):1025–6; discussion 1026.

Apoptosis in the failing human heart. Olivetti G, et al. **N Engl J Med** 1997 Apr 17;336(16):1131–41

Glomerular volume in congestive cardiac failure. Walker JD, et al. **Nephron** 1997;76(2):143–5

Vein of Galen aneurysmal malformation in a neonate treated by endovascular surgery—case report. Komiyama M, et al. **Neurol Med Chir (Tokyo)** 1996 Dec;36(12):893–900

[Peripartum cardiomyopathy with fatal outcome] Hetey M, et al. **Orv Hetil** 1996 Oct 13;137(41):2263–6 (Eng. Abstr.) **(Hun)**

[Rapid ventricular pacing in dogs—the natural history and pathology] Misawa Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):42–5 (Eng. Abstr.) **(Jpn)**

[Case 5/95 (Hospital Universitário Antonio Pedro – Universidade Federal Fluminense) (clinical conference)] **Arq Bras Cardiol** 1995 Oct;65(4):339–41 **(Por)**

PHYSIOPATHOLOGY

Bioimpedance cardiac output measurements in patients with presumed congestive heart failure. Weiss SJ, et al. **Acad Emerg Med** 1997 Jun;4(6):568–73

Large increase in cardiac output in a patient with ARDS and acute right heart failure during inhalation of nitric oxide. Benzing A, et al. **Acta Anaesthesiol Scand** 1997 May; 41(5):643–6

Cardiovascular effects of MnDPDP and MnCl2 in dogs with acute ischaemic heart failure. Karlsson JO, et al. **Acta Radiol** 1997 Jul;38(4 Pt 2):750–8

Inotropic interventions in the assessment of myocardial failure associated with taurine deficiency in domestic cats. Novotny MJ, et al. **Adv Exp Med Biol** 1996;403:305–14

Cardiac receptor activity in heart failure: implications for the control of sympathetic nervous outflow. Zucker IH, et al. **Adv Exp Med Biol** 1995;381:109–24 (63 ref.)

Peripheral chemoreflex in chronic heart failure: friend and foe [editorial] Chugh SS, et al. **Am Heart J** 1996 Oct; 132(4):900–4 (42 ref.)

Differential changes in sympathetic activity in left and right ventricles in congestive heart failure after myocardial infarction. Ganguly PK, et al. **Am Heart J** 1997 Mar; 133(3):340–5

Congestive heart failure in patients with coronary artery disease: the gender paradox. Mendes LA, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):207–12

Short–term reproducibility of cardiopulmonary measurements during exercise testing in patients with severe chronic heart failure. Meyer K, et al. **Am Heart J** 1997 Jul;134(1):20–6

Cheyne–Stokes respiration and prognosis in congestive heart failure. Andreas S, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1260–4

Enalapril reduces QTc dispersion in mild congestive heart failure secondary to coronary artery disease. Barr CS, et al. **Am J Cardiol** 1997 Feb 1;79(3):328–33

Comparison of peak exercise oxygen uptake in men versus women in chronic heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Daida H, et al. **Am J Cardiol** 1997 Jul 1;80(1):85–8

Contribution of left atrial pressure and dimension to signal–averaged P–wave duration in patients with chronic congestive heart failure. Faggiano P, et al. **Am J Cardiol** 1997 Jan 15;79(2):219–22

Comparison of Doppler echocardiography with thermodilution for assessing cardiac output in advanced congestive heart failure. Gola A, et al. **Am J Cardiol** 1996 Sep 15;78(6):708–12

Long–term prognosis in patients with alcoholic cardiomyopathy and severe heart failure after total abstinence. Guillo P, et al. **Am J Cardiol** 1997 May 1; 79(9):1276–8

Effect of reduced muscle bulk on the ventilatory response to exercise in chronic congestive heart failure secondary to idiopathic dilated and ischemic cardiomyopathy. Harrington D, et al. **Am J Cardiol** 1997 Jul 1;80(1):90–3

Hemodynamic effects of a single intravenous injection of synthetic human brain natriuretic peptide in patients with heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Hobbs RE, et al. **Am J Cardiol** 1996 Oct 15;78(8):896–901

Ability of heart rate variability to predict prognosis in patients with advanced congestive heart failure. Jiang W, et al. **Am J Cardiol** 1997 Sep 15;80(6):808–11

Dose dependence of chronic positive inotropic effect of vesnarinone in patients with congestive heart failure due to idiopathic or ischemic cardiomyopathy. Kass DA, et al. **Am J Cardiol** 1996 Sep 15;78(6):652–6

Delayed recovery of postexercise blood pressure in patients with chronic heart failure. Kitaoka H, et al. **Am J Cardiol** 1997 Jun 15;79(12):1701–4

Importance of congestive heart failure and interaction of congestive heart failure and left ventricular systolic function on prognosis in patients with acute myocardial infarction. Køber L, et al. **Am J Cardiol** 1996 Nov 15; 78(10):1124–8

Acute reversibility of pulmonary hypertension predicts neither long–term hemodynamic response nor outcome in patients awaiting heart transplantation. Levine TB, et al. **Am J Cardiol** 1997 Jan 1;79(1):105–6

Isometric handgrip exercise increases endothelin–1 plasma levels in patients with chronic congestive heart failure. Mangieri E, et al. **Am J Cardiol** 1997 May 1;79(9):1261–3

Effects of short–term exercise training and activity restriction on functional capacity in patients with severe chronic congestive heart failure. Meyer K, et al. **Am J Cardiol** 1996 Nov 1;78(9):1017–22

Predictors of response to exercise training in severe chronic congestive heart failure. Meyer K, et al. **Am J Cardiol** 1997 Jul 1;80(1):56–60

Course and prognosis in patients > or = 70 years of age with congestive heart failure and normal versus abnormal left ventricular ejection fraction. Pernenkil R, et al. **Am J Cardiol** 1997 Jan 15;79(2):216–9

Depressed heart rate variability as an independent predictor of death in chronic congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Ponikowski P, et al. **Am J Cardiol** 1997 Jun 15;79(12):1645–50

Heart rate variability is independent of age, gender, and race in congestive heart failure with a recent acute exacerbation. Stein PK, et al. **Am J Cardiol** 1997 Feb 15;79(4):511–2

Skeletal muscle hypoperfusion during recovery from maximal supine bicycle exercise in patients with heart failure. Sumimoto T, et al. **Am J Cardiol** 1996 Oct 1;78(7):841–4

Skeletal muscle atrophy and peak oxygen consumption in heart failure. Toth MJ, et al. **Am J Cardiol** 1997 May 1; 79(9):1267–9

Bone mass, vitamin D deficiency, and hyperparathyroidism in congestive heart failure. Shane E, et al. **Am J Med** 1997 Sep;103(3):197–207

Indomethacin attenuates the renal actions of atrial natriuretic factor in dogs with chronic heart failure. Villarreal D, et al. **Am J Med Sci** 1997 Aug;314(2):67–72

Frequency domain characteristics of muscle sympathetic nerve activity in heart failure and healthy humans. Ando S, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R205–12

BNP: pathophysiological and potential therapeutic roles in acute congestive heart failure. Grantham JA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1077–83

SR Ca(2+)–ATPase activity and expression in ventricular myocardium of dogs with heart failure. Gupta RC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H12–8

Plasma renin activity in heart failure–prone SHHF/Mcc–facp rats. Holycross BJ, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H228–33

Alterations in ATP–sensitive potassium channel sensitivity to ATP in failing human hearts. Koumi SI, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1656–65

Adenylyl cyclase and G protein receptor kinase expression during development of heart failure. Ping P, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H707–17

Left ventricular spherical dilation and regional contractile dysfunction in dogs with heart failure. Suzuki M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1058–67

Exogenous effects and endogenous production of endothelin in cardiac myocytes: potential significance in heart failure. Thomas PB, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2629–37

Impact of exercise training on ventricular properties in a canine model of congestive heart failure. Todaka K, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1382–90

Endogenous atrial natriuretic peptide inhibits endothelin–1 secretion in dogs with severe congestive heart failure. Wada A, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1819–24

Cardiac sympathetic afferent reflex in dogs with congestive heart failure. Wang W, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R751–6

Relationship between external load and isolated myocyte contractile function with CHF in pigs. Wang Z, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H183–91

Factors contributing to the hospitalization of patients with congestive heart failure. Chin MH, et al. **Am J Public Health** 1997 Apr;87(4):643–8

Ventilatory and hemodynamic effects of continuous positive airway pressure in left heart failure. Lenique F, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):500–5

Adverse cardiovascular effects of ketamine infusion in patients with catecholamine–dependent heart failure. Christ G, et al. **Anaesth Intensive Care** 1997 Jun;25(3):255–9

Negative and selective effects of propofol on isolated swine myocyte contractile function in pacing–induced congestive heart failure. Hebbar L, et al. **Anesthesiology** 1997 Mar; 86(3):649–59

Effect of enalapril maleate on cerebral blood flow in patients with chronic heart failure. Kamishirado H, et al. **Angiology** 1997 Aug;48(8):707–13

Right ventricular performance and left ventricular assist device filling. Mandarino WA, et al. **Ann Thorac Surg** 1997 Apr;63(4):1044–9

Hemodynamic effects of different pacing ratios in chronic dynamic double cardiomyoplasty. Soltero ER, et al. **Ann Thorac Surg** 1996 Nov;62(5):1380–7

Transport of hemodynamically unstable patients by a mobile mechanical circulatory support team. Reiss N, et al. **Artif Organs** 1996 Aug;20(8):959–63

Altered inotropism in the failing human myocardium. Bavendiek U, et al. **Basic Res Cardiol** 1996;91 Suppl 2:9–16

Acceleration of contraction by beta–adrenoceptor stimulation is greater in ventricular myocytes from failing than non–failing human hearts. Harding SE, et al. **Basic Res Cardiol** 1996;91 Suppl 2:53–6

Acetylcholine causes dose dependent increase in pulmonary flow in patients with chronic heart failure and elevated pulmonary vascular resistance. Kleber FX, et al. **Basic Res Cardiol** 1996 Sep–Oct;91(5):401–5

Dyspnea in heart failure. Introduction. Kleber FX. **Basic Res Cardiol** 1996;91 Suppl 1:III

Impaired matching of perfusion and ventilation in heart failure detected by 133xenon. Lewis NP, et al. **Basic Res Cardiol** 1996;91 Suppl 1:45–9

Endothelin in congestive heart failure. Love MP, et al. **Basic Res Cardiol** 1996;91 Suppl 1:21–9 (86 ref.)

Role of exercise ventilation in the limitation of functional capacity in patients with congestive heart failure. Metra M, et al. **Basic Res Cardiol** 1996;91 Suppl 1:31–6 (66 ref.)

Neuroendocrine changes in chronic cardiac failure. Nicholls DP, et al. **Basic Res Cardiol** 1996;91 Suppl 1:13–20 (140 ref.)

Exertional hyperpnea in patients with chronic heart failure is a reversible cause of exercise intolerance. Reindl I, et al. **Basic Res Cardiol** 1996;91 Suppl 1:37–43

Contribution of the ventricles and the atrial appendages to the elevation of plasma atrial natriuretic factor (ANF) during pacing–induced heart failure in conscious dogs. Shen W, et al. **Basic Res Cardiol** 1996 Jul–Aug;91(4):319–28

Effect of the renin–angiotensin–aldosterone system on the cardiac interstitium in heart failure. Wilke A, et al. **Basic Res Cardiol** 1996;91 Suppl 2:79–84 (33 ref.)

Cardiovascular responses and interactions by neuropeptide Y in rats with congestive heart failure. Feng QP, et al. **Blood Press** 1996 Sep;5(5):312–8

Heart failure and Starling's Law of the heart. ter Keurs HE. **Can J Cardiol** 1996 Oct;12(10):1047–57 (77 ref.)

Reduced capacity of cardiac efferent sympathetic neurons to release noradrenaline and modify cardiac function in tachycardia–induced canine heart failure. Cardinal R, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1070–8

Body temperature regulation in heart failure. Brengelmann GL. **Cardiologia** 1996 Nov;41(11):1033–43 (51 ref.)

Alveolar–capillary membrane diffusing capacity and its role in the functional capacity of chronic heart failure patients. Chua TP, et al. **Cardiologia** 1997 Mar;42(3):265–8 (23 ref.)

The force–frequency relation in normal and failing heart. Faggiano P, et al. **Cardiologia** 1996 Dec;41(12):1155–64 (97 ref.)

The effect of positive inotropes on the failing human myocardium. Erdmann E. **Cardiology** 1997;88 Suppl 2:7–11

Effects of enalapril on the exercise capacity and neurohumoral factors during exercise in patients with chronic heart failure. Ogino K, et al. **Cardiology** 1997 Jan–Feb;88(1):6–13

Activation of the neuroendocrine response in heart failure: adaptive or maladaptive process? Ferrari R, et al. **Cardiovasc Drugs Ther** 1996 Nov;10 Suppl 2:623–9 (68 ref.)

Altered responsiveness to endothelin–1 of myocardium from pacing–induced heart failure model in the dog. Li K, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):107–12

Prediction of the changes in cardiac output in association with preload reduction therapy in patients with hypertensive heart failure. Nagano R, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):49–56

Effects of renin inhibition compared to angiotensin converting enzyme inhibition in conscious dogs with pacing–induced heart failure. Shannon RP, et al. **Cardiovasc Res** 1997 Jun;34(3):464–72

Cardiac sympathetic neuronal function in left ventricular volume and pressure overload. Somsen GA, et al. **Cardiovasc Res** 1996 Jan;31(1):132–8

Assessment of oxygen uptake during the six–minute walk test in patients with heart failure [letter; comment] [see comments] Faggiano P, et al. **Chest** 1997 Apr;111(4):1146 . Comment on: Chest 1996 Aug;110(2):325–32. Comment in: Chest 1997 May;111(5):1465–6.

Passive smoking and the 6–minute walk test in heart failure [letter; comment] Jay SJ. **Chest** 1997 Jul;112(1):289–90. Comment on: Chest 1996 Aug;110(2):325–32.

Effect of physical training on exercise capacity and gas exchange in patients with chronic heart failure. Kiilavuori K, et al. **Chest** 1996 Oct;110(4):985–91

Sympathetic alternans. Evidence for arterial baroreflex control of muscle sympathetic nerve activity in congestive heart failure. Ando S, et al. **Circulation** 1997 Jan 21; 95(2):316–9

Hemodynamic exercise testing. A valuable tool in the selection of cardiac transplantation candidates. Chomsky DB, et al. **Circulation** 1996 Dec 15;94(12):3176–83

Chemoreflexes in heart failure [letter] Chua TP, et al. **Circulation** 1997 Sep 16;96(6):2090–1

Nonsustained ventricular tachycardia in severe heart failure. Independent marker of increased mortality due to sudden death. GESICA–GEMA Investigators. Doval HC, et al. **Circulation** 1996 Dec 15;94(12):3198–203

Right ventricular performance and contractile reserve in patients with severe heart failure. Assessment by pressure–area relations and association with outcome. Gorcsan J 3rd, et al. **Circulation** 1996 Dec 15;94(12):3190–7

Additional information on solving the riddle of phentolamine's action [letter; comment] Gould L. **Circulation** 1996 Aug 1;94(3):586. Comment on: Circulation 1995 Oct 1;92(7):1793–800.

Effects of chronic ACE inhibition on sympathetic nerve traffic and baroreflex control of circulation in heart failure. Grassi G, et al. **Circulation** 1997 Aug 19;96(4):1173–9

Influence of isoproterenol and ouabain on excitation–contraction coupling, cross–bridge function, and energetics in failing human myocardium. Hasenfuss G, et al. **Circulation** 1996 Dec 15;94(12):3155–60

Regional deficits of myocardial blood flow and function in left ventricular pacing–induced heart failure. Helmer GA, et al. **Circulation** 1996 Nov 1;94(9):2260–7

Modification of human left ventricular relaxation by small–amplitude, phase–controlled mechanical vibration on the chest wall. Koiwa Y, et al. **Circulation** 1997 Jan 7; 95(1):156–62

Downregulation of angiotensin II receptor type 1 in heart failure. A process of adaptation or deterioration? [editorial; comment] Kurabayashi M, et al. **Circulation** 1997 Mar 4; 95(5):1104–7 (30 ref.). Comment on: Circulation 1997 Mar 4;95(5):1193–200.

Hemodynamic and renal excretory effects of human brain natriuretic peptide infusion in patients with congestive heart failure. A double–blind, placebo–controlled, randomized crossover trial. Marcus LS, et al. **Circulation** 1996 Dec 15;94(12):3184–9

Effect of amiodarone on clinical status and left ventricular function in patients with congestive heart failure. CHF–STAT Investigators. Massie BM, et al. **Circulation** 1996 Jun 15;93(12):2128–34

Early versus delayed angiotensin–converting enzyme inhibition in experimental chronic heart failure. Effects on survival, hemodynamics, and cardiovascular remodeling. Mulder P, et al. **Circulation** 1997 Mar 4;95(5):1314–9

Potent and long–lasting vasodilatory effects of adrenomedullin in humans. Comparisons between normal subjects and patients with chronic heart failure. Nakamura M, et al. **Circulation** 1997 Mar 4;95(5):1214–21

Cardiac sympathetic responses to acute vasodilation. Normal ventricular function versus congestive heart failure. Newton GE, et al. **Circulation** 1996 Dec 15;94(12):3161–7

Acute effects of beta 1–selective and nonselective beta–adrenergic receptor blockade on cardiac sympathetic activity in congestive heart failure. Newton GE, et al. **Circulation** 1996 Aug 1;94(3):353–8

Sympathetic activation and loss of reflex sympathetic control in mild congestive heart failure [letter; comment] Osterziel KJ. **Circulation** 1996 Nov 1;94(9):2310–1. Comment on: Circulation 1995 Dec 1;92(11):3206–11.

Increased cardiac adrenergic drive precedes generalized sympathetic activation in human heart failure. Rundqvist B, et al. **Circulation** 1997 Jan 7;95(1):169–75

Attenuated cardiac sympathetic responsiveness during dynamic exercise in patients with heart failure. Rundqvist B, et al. **Circulation** 1997 Feb 18;95(4):940–5

Effects of cardiac denervation on development of heart failure and catecholamine desensitization. Sato N, et al. **Circulation** 1997 Apr 15;95(8):2130–40

Sustained hemodynamic efficacy of therapy tailored to reduce filling pressures in survivors with advanced heart failure. Steimle AE, et al. **Circulation** 1997 Aug 19; 96(4):1165–72

Chronic congestive heart failure elicits adaptations of endurance exercise in diaphragmatic muscle. Tikunov B, et al. **Circulation** 1997 Feb 18;95(4):910–6

Attenuation of compensation of endogenous cardiac natriuretic peptide system in chronic heart failure: prognostic role of plasma brain natriuretic peptide concentration in patients with chronic symptomatic left ventricular dysfunction [see comments] Tsutamoto T, et al. **Circulation** 1997 Jul 15;96(2):509–16. Comment in: Circulation 1997 Jul 15;96(2):388–90.

Role of myocyte nitric oxide in beta–adrenergic hyporesponsiveness in heart failure. Yamamoto S, et al. **Circulation** 1997 Mar 4;95(5):1111–4

Hemodynamic effects of creatine phosphate in patients with congestive heart failure: a double–blind comparison trial versus placebo. Ferraro S, et al. **Clin Cardiol** 1996 Sep; 19(9):699–703

Relationship between exercise hyperpnea, hemodynamics, and blood gases before and during glyceryl trinitrate infusion in patients with exercise–induced elevation of pulmonary artery wedge pressure. Jørgensen LH, et al. **Clin Cardiol** 1997 Sep;20(9):773–7

Evaluation of heart failure patients: objective parameters to assess functional capacity. Mills RM Jr, et al. **Clin Cardiol** 1996 Jun;19(6):455–60 (34 ref.)

Neurohumoral activation in heart failure: role of paraventricular nucleus. Patel KP, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):722–6 (42 ref.)

Nitric oxide inhibition in an ovine model of heart failure. Rademaker MT, et al. **Clin Exp Pharmacol Physiol** 1996 May;23(5):403–9

Neural responses to exercise in humans: implications for congestive heart failure. Sinoway LI. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):693–9

Neural control of the circulation in heart failure and coronary ischaemia: introduction. Zucker IH. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):685–7

Abnormal desmopressin–induced forearm vasodilatation in patients with heart failure: dependence on nitric oxide synthase activity. Rector TS, et al. **Clin Pharmacol Ther** 1996 Dec;60(6):667–74

Assessment of left ventricular diastolic function from mitral annulus motion, a comparison with pulsed Doppler measurements in patients with heart failure. Blomstrand P, et al. **Clin Physiol** 1996 Sep;16(5):483–93

Exercise capacity in heart failure patients: relative importance of heart and skeletal muscle. Magnusson G, et al. **Clin Physiol** 1996 Mar;16(2):183–95

Fractal component of variability of heart rate and systolic blood pressure in congestive heart failure. Butler GC, et al. **Clin Sci (Colch)** 1997 Jun;92(6):543–50

Reproducibility of heart rate variability measures in patients with chronic heart failure. Ponikowski P, et al. **Clin Sci (Colch)** 1996 Oct;91(4):391–8

Mechanisms and management of renal dysfunction in heart failure. Anand IS, et al. **Curr Opin Cardiol** 1997 May; 12(3):251–8 (93 ref.)

Mechanisms of exercise intolerance in congestive heart failure. Harrington D, et al. **Curr Opin Cardiol** 1997 May; 12(3):224–32 (86 ref.)

Mechanisms and implications of endothelial dysfunction in congestive heart failure. Katz SD. **Curr Opin Cardiol** 1997 May;12(3):259–64 (63 ref.)

Mechanisms and implications of autonomic nervous system dysfunction in heart failure. Middlekauff HR. **Curr Opin Cardiol** 1997 May;12(3):265–75 (61 ref.)

Ventilatory response to exercise and to carbon dioxide in patients with heart failure. Andreas S, et al. **Eur Heart J** 1996 May;17(5):750–5

The influence of muscle mass, strength, fatigability and blood flow on exercise capacity in cachectic and non–cachectic patients with chronic heart failure [see comments] Anker SD, et al. **Eur Heart J** 1997 Feb;18(2):259–69. Comment in: Eur Heart J 1997 Feb;18(2):187–9.

Clinical characteristics of chronic heart failure patients with an augmented peripheral chemoreflex. Chua TP, et al. **Eur Heart J** 1997 Mar;18(3):480–6

Upregulation of cell adhesion molecules and the presence of low grade inflammation in human chronic heart failure. Devaux B, et al. **Eur Heart J** 1997 Mar;18(3):470–9

Endothelial function in heart failure: some unsolved issues [editorial; comment] Drexler H. **Eur Heart J** 1996 Dec; 17(12):1775–7 (25 ref.). Comment on: Eur Heart J 1996 Dec;17(12):1875–81.

Serum uric acid as an index of impaired oxidative metabolism in chronic heart failure. Leyva F, et al. **Eur Heart J** 1997 May;18(5):858–65

Physical responses to different modes of interval exercise in patients with chronic heart failure—application to exercise training. Meyer K, et al. **Eur Heart J** 1996 Jul;17(7):1040–7

Endothelium–dependent vasodilatation is not selectively impaired in patients with chronic heart failure secondary to valvular heart disease and congenital heart disease [see comments] Nakamura M, et al. **Eur Heart J** 1996 Dec; 17(12):1875–81. Comment in: Eur Heart J 1996 Dec;17(12):1775–7.

Sick euthyroid syndrome in patients with moderate–to–severe chronic heart failure [see comments] Opasich C, et al. **Eur Heart J** 1996 Dec;17(12):1860–6. Comment in: Eur Heart J 1996 Dec;17(12):1777–8.

Skeletal muscle alterations in patients with chronic heart failure. Schaufelberger M, et al. **Eur Heart J** 1997 Jun; 18(6):971–80

Ventilatory and lactate threshold determinations in healthy normals and cardiac patients: methodological problems. Meyer K, et al. **Eur J Appl Physiol** 1996;72(5–6):387–93

Heart failure: can it be defined? Tan LB, et al. **Eur J Clin Pharmacol** 1996;49 Suppl 1:S11–8

Interaction of 5–methyl–urapidil with alpha 1–adrenoceptors in canine blood vessels: impact of pacing–induced heart

failure. Forster C. **Eur J Pharmacol** 1996 Dec 27; 318(1):55–63

Bosentan improves renal regional blood flow in rats with experimental congestive heart failure. Gurbanov K, et al. **Eur J Pharmacol** 1996 Aug 29;310(2–3):193–6

Altered vasodilator response of coronary microvasculature in pacing–induced congestive heart failure. Larosa G, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):387–94

Peripheral and respiratory muscles in chronic heart failure. Stassijns G, et al. **Eur Respir J** 1996 Oct;9(10):2161–7 (55 ref.)

Heart rate and blood pressure variability in cardiac diseases: pharmacological implications. Cloarec–Blanchard L. **Fundam Clin Pharmacol** 1997;11(1):19–28 (98 ref.)

Response of large and small vessels to alpha and beta adrenoceptor stimulation in heart failure: effect of angiotensin converting enzyme inhibition. Mulder P, et al. **Fundam Clin Pharmacol** 1997;11(3):221–30

Sleep disorders and breathing alterations in patients with chronic heart failure. Traversi E, et al. **G Ital Cardiol** 1997 May;27(5):423–9

Relation between serum uric acid and lower limb blood flow in patients with chronic heart failure. Anker SD, et al. **Heart** 1997 Jul;78(1):39–43

Contribution of peripheral chemoreceptors to ventilation and the effects of their suppression on exercise tolerance in chronic heart failure. Chua TP, et al. **Heart** 1996 Dec; 76(6):483–9

The increased ventilatory response to exercise in chronic heart failure: relation to pulmonary pathology. Clark AL, et al. **Heart** 1997 Feb;77(2):138–46

Ventilation/carbon dioxide production ratio in early exercise predicts poor functional capacity in congestive heart failure. Milani RV, et al. **Heart** 1996 Nov;76(5):393–6

Inspiratory muscle endurance in patients with chronic heart failure. Walsh JT, et al. **Heart** 1996 Oct;76(4):332–6

Sexual function in patients with advanced heart failure. Jaarsma T, et al. **Heart Lung** 1996 Jul–Aug;25(4):262–70

Simultaneous evaluation of left– and right–sided heart pumping function during dynamic leg exercise in patients with mild chronic congestive heart failure, with special reference to afterload and plasma noradrenaline. Minatoguchi S, et al. **Heart Vessels** 1997;12(1):34–42

Basal release of nitric oxide is decreased in the coronary circulation in patients with heart failure. Mohri M, et al. **Hypertension** 1997 Jul;30(1 Pt 1):50–6

Plasma levels of atrial natriuretic peptide and of other vasoconstricting hormones in patients with chronic heart failure: relationship to exercise capacity. Chati Z, et al. **Int J Cardiol** 1996 Dec 6;57(2):135–42

Relationship between isokinetic muscle strength and exercise capacity in chronic heart failure. Clark A, et al. **Int J Cardiol** 1997 Apr 18;59(2):145–8

Interleukin–6 correlates with hemodynamic impairment during dobutamine administration in chronic heart failure. Deng MC, et al. **Int J Cardiol** 1996 Dec 6;57(2):129–34

Investigations of the peripheral vascular mechanisms implicated in congestive heart failure by the non–invasive evaluation of radial artery compliance and reactivity. Khder Y, et al. **Int J Cardiol** 1996 Oct 11;56(2):149–58

Influence of hemodynamic changes on neuroendocrine response in acute heart failure. Pohar B, et al. **Int J Cardiol** 1997 Aug 8;60(3):263–71

Impact of atrioventricular delay on heart rate variability of paced patients with and without heart failure. Simantirakis E, et al. **Int J Cardiol** 1995 Dec;52(3):235–9

Systolic and diastolic function in patients with chronic heart failure at rest and during exercise. Spinarova L, et al. **Int J Cardiol** 1997 May 23;59(3):251–6

Regression of left ventricular dilatation and hypertrophy after aortic valve replacement. Waszyrowski T, et al. **Int J Cardiol** 1996 Dec 13;57(3):217–25

Dependence of peak oxygen uptake on oxygen transport capacity in chronic heart failure: comparison of graded protocol and fixed protocol. Yasaka Y, et al. **Int J Cardiol** 1997 Apr 18;59(2):149–56

Impaired microcirculation in heart failure. Duprez D, et al. **Int J Microcirc Clin Exp** 1996 May–Jun;16(3):137–42

Effects of dihydrocodeine on chemosensitivity and exercise tolerance in patients with chronic heart failure. Chua TP, et al. **J Am Coll Cardiol** 1997 Jan;29(1):147–52

Clinical correlates and prognostic significance of the ventilatory response to exercise in chronic heart failure. Chua TP, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1585–90

Exercise limitation in chronic heart failure: central role of the periphery. Clark AL, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1092–102 (173 ref.)

Exercise training in patients with severe congestive heart failure: enhancing peak aerobic capacity while minimizing the increase in ventricular wall stress. Demopoulos L, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):597–603

Left ventricular remodeling with carvedilol in patients with congestive heart failure due to ischemic heart disease. Australia–New Zealand Heart Failure Research Collaborative Group. Doughty RN, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1060–6

Effect of bolus milrinone on hemodynamic variables and pulmonary vascular resistance in patients with severe left ventricular dysfunction: a rapid test for reversibility of pulmonary hypertension. Givertz MM, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1775–80

Digoxin reduces cardiac sympathetic activity in severe congestive heart failure [letter; comment] Goldsmith SR. **J Am Coll Cardiol** 1997 Feb;29(2):472–3. Comment on: J Am Coll Cardiol 1996 Jul;28(1):155–61.

Effects of afterload–reducing drugs on pathogenesis of antioxidant changes and congestive heart failure in rats. Khaper N, et al. **J Am Coll Cardiol** 1997 Mar 15; 29(4):856–61

Pulmonary hypertension caused by congestive heart failure is ameliorated by long–term application of an endothelin receptor antagonist. Increased expression of endothelin–1 messenger ribonucleic acid and endothelin–1–like immunoreactivity in the lung in congestive heart failure in rats. Sakai S, et al. **J Am Coll Cardiol** 1996 Nov 15; 28(6):1580–8

Tachycardia–induced cardiomyopathy:. a review of animal models and clinical studies. Shinbane JS, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):709–15 (88 ref.)

Impact of volume loading and load reduction on ventricular refractoriness and conduction properties in canine congestive heart failure. Zhu WX, et al. **J Am Coll Cardiol** 1997 Sep;30(3):825–33

Magnesium supplementation in patients with congestive heart failure [see comments] Costello RB, et al. **J Am Coll Nutr** 1997 Feb;16(1):22–31. Comment in: J Am Coll Nutr 1997 Feb;16(1):4–6.

Reflex influences on renal nerve activity characteristics in nephrosis and heart failure. Dibona GF, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1232–9

Hemodynamic and norepinephrine responses to pacing–induced heart failure in conscious sinoaortic–denervated dogs. Brändle M, et al. **J Appl Physiol** 1996 Oct;81(4):1855–62

Muscular blood flow response to submaximal leg exercise in normal subjects and in patients with heart failure. Isnard R, et al. **J Appl Physiol** 1996 Dec;81(6):2571–9

Training improves endothelium–dependent vasodilation in resistance vessels of patients with heart failure. Katz SD, et al. **J Appl Physiol** 1997 May;82(5):1488–92

Skeletal muscle mass and exercise performance in stable ambulatory patients with heart failure. Lang CC, et al. **J Appl Physiol** 1997 Jan;82(1):257–61

Depressed baroreflex in heart failure is not due to structural change in carotid sinus nerve fibers. Wang W, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):101–8

Endocardial endothelial dysfunction and heart failure. Andries LJ, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S195–202 (44 ref.)

Endothelium and platelet activity in heart failure. Bassenge E, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S203–8 (25 ref.)

Pathophysiologic and therapeutic implications of sleep apnea in congestive heart failure. Bradley TD, et al. **J Card Fail** 1996 Sep;2(3):223–40 (150 ref.)

Exercise dynamics at submaximal workloads in patients with chronic heart failure. Clark AL, et al. **J Card Fail** 1997 Mar;3(1):15–9

Improved ventilation and decreased sympathetic stress in chronic heart failure patients following local endurance training with leg muscles [see comments] Gordon A, et al. **J Card Fail** 1997 Mar;3(1):3–12. Comment in: J Card Fail 1997 Mar;3(1):13–4.

Deficient cellular cyclic AMP may cause both cardiac and skeletal muscle dysfunction in heart failure. Grossman JD, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S105–11

Decreased inotropic but relatively preserved relaxation response to cyclic adenosine monophosphate–dependent agents in myopathic human myocardium. Gutstein DE, et al. **J Card Fail** 1996 Dec;2(4):285–92

Responses of plasma norepinephrine and renin–angiotensin–aldosterone system to dynamic exercise in patients with congestive heart failure. Kato M, et al. **J Card Fail** 1996 Jun;2(2):103–10

Is the failing heart an energy–starved organ? [editorial] Katz AM. **J Card Fail** 1996 Dec;2(4):267–72 (76 ref.)

Changes of myocardial contractile state and the intracellular calcium transients during transitions to heart failure: studies in Dahl rat heart failure model. Kihara Y, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S113–20

Endothelial nitric oxide pathway function in the peripheral vasculature of patients with heart failure. Kubo SH, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S217–23 (51 ref.)

Biatrial appendage hypertrophy but not ventricular hypertrophy: a unique feature of canine pacing–induced heart failure. Moe GW, et al. **J Card Fail** 1996 Jun; 2(2):127–32

Roles of natriuretic peptides in heart failure. Nakao K, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S129–33

Paracrine coronary endothelial modulation of diastolic left ventricular function in man: implications for diastolic heart failure. Paulus WJ. **J Card Fail** 1996 Dec;2(4 Suppl):S155–64 (80 ref.)

Heart rhythms, ventricular arrhythmias, and death in chronic heart failure [see comments] Ponikowski P, et al. **J Card Fail** 1996 Sep;2(3):177–83. Comment in: J Card Fail 1996 Sep;2(3):193–6.

The role of hypertrophy and growth factors in heart failure. Ross J Jr, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S121–8

Rapid fall in sympathetic nerve hyperactivity in patients with heart failure after cardiac transplantation. Rundqvist B, et al. **J Card Fail** 1997 Mar;3(1):21–6

State of the art on heart failure syndrome. Sasayama S, et al. **J Card Fail** 1996 Dec;2(4 Suppl):V–VI

Basic mechanisms in heart failure: the cytokine hypothesis. Seta Y, et al. **J Card Fail** 1996 Sep;2(3):243–9 (39 ref.)

Renal role of the endogenous natriuretic peptide system in acute congestive heart failure. Stevens TL, et al. **J Card Fail** 1996 Jun;2(2):119–25

Role of endothelium in control of forearm blood flow in patients with heart failure. Takeshita A, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S209–15

Improved quality of life in chronic heart failure patients following local endurance training with leg muscles. Tyni–Lenné R, et al. **J Card Fail** 1996 Jun;2(2):111–7

Exercise intolerance in congestive heart failure: a lesson in exercise physiology. Brubaker PH. **J Cardiopulm Rehabil** 1997 Jul–Aug;17(4):217–21 (28 ref.)

Responses to arm exercise in patients with compensated heart failure. Keteyian SJ, et al. **J Cardiopulm Rehabil** 1996 Nov–Dec;16(6):366–71

Effects of a new cardiotonic phosphodiesterase III inhibitor, olprinone, on cardiohemodynamics and plasma hormones in conscious pigs with heart failure. Adachi H, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):763–71

Endothelium–dependent relaxation is not uniformly impaired in chronic heart failure. Baggia S, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):389–96

Pharmacokinetic–pharmacodynamic model relating spiraprilat plasma concentrations to systemic and regional hemodynamic effects in congestive heart failure. Bellissant E, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):253–60

Low–dose but not high–dose captopril increases parasympathetic activity in patients with heart failure. Kamen PW, et al. **J Cardiovasc Pharmacol** 1997 Jul; 30(1):7–11

Effect of mibefradil on left ventricular diastolic function in patients with congestive heart failure. Muntinga HJ, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):652–6

Insights into the mechanism of the nitroprusside–induced increase in cardiac output in failing hearts: an attempt at its prediction with Doppler echocardiography. Nagano R, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):343–9

Differing early blood pressure and renin–angiotensin system responses to the first dose of angiotensin–converting enzyme inhibitors in congestive heart failure [published erratum appears in J Cardiovasc Pharmacol 1996 Sep;28(3):479] Squire IB, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):657–66

Hemodynamic and autonomic effects of intravenous saterinone in patients with chronic heart failure. Szabó BM, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):618–23

Impaired coronary sensitivity to diltiazem in experimental heart failure: involvement of the cyclooxygenase but not the nitric oxide–synthase pathway. Tanguay M, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):232–9

Effects of continuous positive airway pressure on cardiac output and plasma norepinephrine in sedated pigs. Scharf SM, et al. **J Crit Care** 1996 Jun;11(2):57–64

Heart rate variability in patients with mild heart failure due to coronary artery disease. Comparison of patients with and without prior myocardial infarction. Ristimäe T, et al. **J Electrocardiol** 1996;29 Suppl:162–7

Effects of mechanical left ventricular support on right ventricular diastolic function. Moon MR, et al. **J Heart Lung Transplant** 1997 Apr;16(4):398–407

Cardiac modifications occurring in the ascitic rat with biliary cirrhosis are nitric oxide related. van Obbergh L, et al. **J Hepatol** 1996 Jun;24(6):747–52

Coronary endothelial dysfunction in the hypertensive patient: from myocardial ischemia to heart failure. Burnett JC Jr. **J Hum Hypertens** 1997 Jan;11(1):45–9 (28 ref.)

Blockade of the renin–angiotensin system in heart failure in conscious dogs. Murakami M, et al. **J Hypertens** 1995 Dec; 13(12 Pt 1):1405–12

Participation of the pituitary–thyroid axis in the cardiovascular system in elderly patients with congestive heart failure. Kimura T, et al. **J Med** 1997;28(1–2):75–80

Left ventricular regional myocyte contractility in normal and heart failure states. Hinton RB, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1939–46

Direct and indirect assessment of skeletal muscle blood flow in patients with congestive heart failure. LeJemtel TH, et al. **J Mol Cell Cardiol** 1996 Nov;28(11):2249–54 (50 ref.)

Endothelium–dependent responses in congestive heart failure. Vanhoutte PM. **J Mol Cell Cardiol** 1996 Nov; 28(11):2233–40 (61 ref.)

Cardiac sarcoplasmic reticular function in rats with chronic heart failure following myocardial infarction. Yamaguchi F, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):753–63

The cardiac effects of pimobendan (but not amrinone) are preserved at rest and during exercise in conscious dogs with pacing–induced heart failure. Ohte N, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):23–31

Comparison between alpha–1 adrenoceptor–mediated and beta adrenoceptor–mediated inotropic components elicited by norepinephrine in failing human ventricular muscle. Skomedal T, et al. **J Pharmacol Exp Ther** 1997 Feb; 280(2):721–9

Tsutsugamushi myocarditis with congestive heart failure and persistent atrial standstill. Jeong MH, et al. **Jpn Circ J** 1996 Jun;60(6):382–8

Diastolic plateau wave of pulmonary artery pressure in severe congestive heart failure. Kasaoka S, et al. **Jpn Circ J** 1996 Dec;60(12):998–1003

Augmented response in plasma atrial natriuretic peptide to dynamic exercise in patients with congestive heart failure.

Kato M, et al. **Jpn Circ J** 1996 Dec;60(12):909–16

L-arginine increases exercise-induced vasodilation of the forearm in patients with heart failure. Kubota T, et al. **Jpn Circ J** 1997 Jun;61(6):471–80

Cytokine inhibitors in patients with heart failure and impaired functional capacity. Missov E, et al. **Jpn Circ J** 1997 Sep; 61(9):749–54

Relationship between the pulmonary artery index and physiological properties of the pulmonary vascular bed. Senzaki H, et al. **Jpn Circ J** 1996 Jun;60(6):334–40

Effect of chronic digoxin on beta-adrenergic receptors in rabbits with heart failure. Albajinai W, et al. **Jpn Heart J** 1997 Mar;38(2):263–72

Alterations of signal transduction system in heart failure. Kawaguchi H, et al. **Jpn Heart J** 1997 May;38(3):317–32 (48 ref.)

Diastolic ventricular interaction in chronic heart failure [see comments] Atherton JJ, et al. **Lancet** 1997 Jun 14; 349(9067):1720–4. Comment in: Lancet 1997 Jun 14;349(9067):1712.

Influence of different exercise protocols on functional capacity and symptoms in patients with chronic heart failure. Meyer K, et al. **Med Sci Sports Exerc** 1996 Sep; 28(9):1081–6

Altered expression of myosin heavy chain in human skeletal muscle in chronic heart failure. Sullivan MJ, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):860–6

The management of chronic heart failure [letter; comment] Sahebjami H. **N Engl J Med** 1997 Jan 23;336(4):295; discussion 296. Comment on: N Engl J Med 1996 Aug 15;335(7):490–8.

Decrease of cardiac chaos in congestive heart failure. Poon CS, et al. **Nature** 1997 Oct 2;389(6650):492–5

Reproducibility of left ventricular volume measurements at rest and during bicycle exercise in patients with congestive heart failure: a combined radionuclide and haemodynamic study. Wieshammer S, et al. **Nucl Med Commun** 1996 Jul; 17(7):591–5

Heart failure—the reason for or a consequence of failure of the periphery? [letter] Simko F, et al. **Physiol Res** 1996; 45(6):483–4

Diastolic heart failure. What primary care physicians need to know. Spencer KT, et al. **Postgrad Med** 1997 Jan; 101(1):63–5, 68, 71–3 passim (21 ref.)

Congestive heart failure in rats is associated with increased expression and targeting of aquaporin-2 water channel in collecting duct. Nielsen S, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5450–5

Effect of heart failure and physical training on the acute ventilatory response to hypoxia at rest and during exercise. Barlow CW, et al. **Respiration** 1997;64(2):131–7

Defective excitation-contraction coupling in experimental cardiac hypertrophy and heart failure [see comments] Gómez AM, et al. **Science** 1997 May 2;276(5313):800–6. Comment in: Science 1997 May 2;276(5313):755–6.

Quenching the spark in the heart [comment] Yue DT. **Science** 1997 May 2;276(5313):755–6. Comment on: Science 1997 May 2;276(5313):800–6.

Right ventricular ejection fraction predicts urgent need for heart transplantation. Frey B, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):592

Validation of big endothelin plasma levels compared with established neurohumoral markers in patients with severe chronic heart failure. Stanek B, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):595–6

Plasma human atrial natriuretic peptide under compression therapy in patients with chronic venous insufficiency with or without cardiac insufficiency. Galm O, et al. **Vasa** 1996; 25(1):48–53

[Arterial hypertension, aging and cardiac decompensation] Safar M, et al. **Ann Cardiol Angeiol (Paris)** 1996 Oct; 45(8):439–44 (22 ref.) (Eng. Abstr.) **(Fre)**

[Reproducibility of measurements of blood gas exchange during exercise in mild cardiac failure: need for a preliminary test?] Valy Y, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90(4):477–82 (31 ref.) (Eng. Abstr.) **(Fre)**

[Plasticity of the myocardium in pediatric cardiology] Bonnet D. **Arch Pediatr** 1996 Dec;3(12):1273–5 (12 ref.) (Eng. Abstr.) **(Fre)**

[Arterial hypertension and cardiac decompensation] Degaute JP. **Rev Med Brux** 1996 Sep;17(4):272–4 (Eng. Abstr.) **(Fre)**

[Hypertrophy due to left cardiac insufficiency: role of the neurohumoral system] Lerch R, et al. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):238–41 (32 ref.) (Eng. Abstr.) **(Fre)**

[Diastolic heart failure. Pathophysiology, diagnosis and therapy] von Scheidt W. **Med Klin** 1996 Jan 15;91(1):28–35 (32 ref.) **(Ger)**

[Heart failure: oxidative stress and apoptosis (editorial)] Heinzl S. **Med Monatsschr Pharm** 1996 Nov;19(11):319 **(Ger)**

[Severe congestive heart failure as a medical emergency] Hunziker P, et al. **Schweiz Rundsch Med Prax** 1997 Feb 4;86(6):189–95 (36 ref.) (Eng. Abstr.) **(Ger)**

[Diuretics in the treatment of heart failure: current pathophysiological aspects] Mandinov L, et al. **Schweiz Rundsch Med Prax** 1997 Apr 2;86(14):575–82 (74 ref.) (Eng. Abstr.) **(Ger)**

[Sympathetic nervous system in heart failure: effect of catecholamines and nitric oxide] Drexler H. **Z Kardiol** 1996; 85 Suppl 6:247–52 (30 ref.) (Eng. Abstr.) **(Ger)**

[Altered calcium homeostasis in chronic heart failure] Erdmann E, et al. **Z Kardiol** 1996;85 Suppl 6:123–28 (21 ref.) (Eng. Abstr.) **(Ger)**

[Mechanisms of the regulation of adrenergic beta-receptors] Lohse MJ. **Z Kardiol** 1996;85 Suppl 7:1–3 (12 ref.) (Eng. Abstr.) **(Ger)**

[Neurohumoral regulation in heart failure] Riegger GA, et al. **Z Kardiol** 1996;85 Suppl 6:205–10 (20 ref.) (Eng. Abstr.) **(Ger)**

[Pharmacology of beta-receptor blockers] Schmitz W. **Z Kardiol** 1996;85 Suppl 7:5–9 (13 ref.) (Eng. Abstr.) **(Ger)**

[Oxygen consumption during exercise in patients with heart failure] Agostoni PG. **Cardiologia** 1996 Oct;41(10):917–8 **(Ita)**

[Chronic heart failure and physical activity] Assennato P. **Cardiologia** 1997 Feb;42(2):171–6 (35 ref.) **(Ita)**

[Metabolism and function of peripheral muscles in heart failure: pharmacologic effects] Ferrari R. **Cardiologia** 1995 Dec;40(12 Suppl 1):45–8 **(Ita)**

[The prognostic value of activation of the hypophyseal and adrenal cortical systems in severe heart failure] Gallina S, et al. **Cardiologia** 1997 Jan;42(1):77–82 (Eng. Abstr.) **(Ita)**

[Resistance to loop diuretics in heart failure. Why it occurs & how to counteract it (editorial)] Guazzi MD. **Cardiologia** 1995 Dec;40(12):889–92 **(Ita)**

[Sleep and heart failure (editorial)] Moruzzi P. **Cardiologia** 1997 Feb;42(2):121–2 **(Ita)**

[Pulmonary venous flow in patients with chronic heart failure: feasibility and additional value compared to transmitral flow for non-invasive estimation of pulmonary wedge pressure] Capomolla S, et al. **G Ital Cardiol** 1996 Oct;26(10):1123–37 (Eng. Abstr.) **(Ita)**

[Endothelial function, nitrate derivatives and cardiac insufficiency] Ledda F. **G Ital Cardiol** 1996 Sep; 26(9):1067–72 (22 ref.) **(Ita)**

[Efficacy of increase of cardiac index during exercise in the chronic phase of various cardiovascular diseases: evaluation by exercise tolerance and brain natriuretic peptide] Omiya K, et al. **J Cardiol** 1997 Mar;29(3):149–56 (Eng. Abstr.) **(Jpn)**

[Usefulness of 123I-BMIPP myocardial scintigraphy for evaluation of the left ventricular function in patients with chronic heart failure] Watanabe K, et al. **Kaku Igaku** 1996 Jul;33(7):743–51 (Eng. Abstr.) **(Jpn)**

[Preoperative evaluation of patients with heart dysfunction and preanesthetic medication] Nishikawa T. **Masui** 1996 Dec;45 Suppl:S108–13 (21 ref.) **(Jpn)**

[Rapid ventricular pacing in dogs—the natural history and pathology] Misawa Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):42–5 (Eng. Abstr.) **(Jpn)**

[Systole and diastole failure of the heart] Handa S, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):16–21 (5 ref.) **(Jpn)**

[Molecular mechanism of myocardial contraction and heart failure] Nagai R. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):3–8 (5 ref.) **(Jpn)**

[Normal maximal functional capacity in patients with congestive heart failure due to Chagas' cardiomyopathy] Mady C, et al. **Arq Bras Cardiol** 1996 Jul;67(1):1–4 (Eng. Abstr.) **(Por)**

[The importance of the endothelium in heart failure] Leite-Moreira AF, et al. **Rev Port Cardiol** 1997 Apr; 16(4):399–406, 353 (81 ref.) (Eng. Abstr.) **(Por)**

[Changes in venous tonus in rats with heart failure during acute and chronic perindopril administration] Moleva EB, et al. **Eksp Klin Farmakol** 1996 Jul-Aug;59(4):15–7 (Eng. Abstr.) **(Rus)**

[The clinico-functional characteristics of the reversal of coronary and myocardial failure in IHD patients after direct myocardial revascularization] Cherniavskiĭ AM, et al. **Ter Arkh** 1996;68(4):36–40 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Angiotensin-converting enzyme inhibitors in preventing remodeling and development of heart failure after acute myocardial infarction: results of the German multicenter study of the effects of captopril on cardiopulmonary exercise parameters (ECCE). Kleber FX, et al. **Am J Cardiol** 1997 Aug 4;80(3A):162A–167A

Preventing CHF is goal of National High Blood Pressure Education Program call to action [news] Carter BL, et al. **Am J Health Syst Pharm** 1996 Jun 15;53(12):1381, 1384

Lipid lowering: an important factor in preventing adriamycin-induced heart failure. Iliskovic N, et al. **Am J Pathol** 1997 Feb;150(2):727–34

Diuretics in the prevention and treatment of congestive heart failure. Moser M. **Cardiovasc Drugs Ther** 1997 May;11 Suppl 1:273–7 (28 ref.)

Cardiovascular research: an NIH perspective [editorial] Lenfant C. **Cardiovasc Surg** 1997 Feb;5(1):4–5

The heart failure epidemic: magnitude of the problem and potential mitigating approaches [editorial] Massie BM, et al. **Curr Opin Cardiol** 1996 May;11(3):221–6 (41 ref.)

ACE inhibitors before or after heart failure? Erhardt L. **Eur J Clin Pharmacol** 1996;49 Suppl 1:S19–28 (73 ref.)

Need and prospects for prevention of cardiac failure. Kannel WB. **Eur J Clin Pharmacol** 1996;49 Suppl 1:S3–9

What have the ACE-inhibitor trials in postmyocardial patients with left ventricular dysfunction taught us? Reynolds G, et al. **Eur J Clin Pharmacol** 1996;49 Suppl 1:S35–9 (19 ref.)

Cardioprotection with dexrazoxane for doxorubicin-containing therapy in advanced breast cancer. Swain SM, et al. **J Clin Oncol** 1997 Apr;15(4):1318–32

Delayed administration of dexrazoxane provides cardioprotection for patients with advanced breast cancer treated with doxorubicin-containing therapy. Swain SM, et al. **J Clin Oncol** 1997 Apr;15(4):1333–40

Prevention of heart failure by antihypertensive drug treatment in older persons with isolated systolic hypertension. SHEP Cooperative Research Group. Kostis JB, et al. **JAMA** 1997 Jul 16;278(3):212–6

[Angiotensin-converting enzyme inhibitors following a myocardial infarct: clinical abd echographic indications] de Waard DE, et al. **Ned Tijdschr Geneeskd** 1997 Jan 11; 141(2):84–8 (36 ref.) (Eng. Abstr.) **(Dut)**

[Anticoagulant therapy and obstetric management in a pregnant patient with mechanical prosthetic valve] Kimura K, et al. **Kyobu Geka** 1996 Sep;49(10):821–6 (Eng. Abstr.) **(Jpn)**

[Cardioxan as a cardioprotector in antineoplastic chemotherapy] Lichinitser MP, et al. **Klin Med (Mosk)** 1996;74(5):65–7 **(Rus)**

PSYCHOLOGY

Impact of acute mental stress on sympathetic nerve activity and regional blood flow in advanced heart failure: implications for 'triggering' adverse cardiac events. Middlekauff HR, et al. **Circulation** 1997 Sep 16; 96(6):1835–42

Male patients with congestive heart failure and their conception of the life situation. Mårtensson J, et al. **J Adv Nurs** 1997 Mar;25(3):579–86

Improvement in quality of life in patients with heart failure who undergo transplantation. Grady KL, et al. **J Heart Lung Transplant** 1996 Aug;15(8):749–57

Bortner type A scores and eight basic emotions for survivors of ventricular fibrillation and left ventricular failure during acute myocardial infarction. Catipović-Veselica K, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1195–202

Social support sources among older women with heart failure: continuity versus loss over time. Friedman MM. **Res Nurs Health** 1997 Aug;20(4):319–27

[Quality of life: a parameter to be taken into account, but how?] Jondeau G. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:33–7 (Eng. Abstr.) **(Fre)**

[The psychological evaluation of patients with severe heart failure awaiting a heart transplant] Gentili P, et al. **Cardiologia** 1997 Feb;42(2):195–9 (Eng. Abstr.) **(Ita)**

[The psychological side of chronic heart failure. A pluriannual experience] Majani G, et al. **G Ital Cardiol** 1997 Mar;27(3):244–54 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Iodixanol and the heart. Harnish P, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S437–9

Coronary arteriography with an oxygenated contrast medium: cardiac effects in dogs with and without acute ischemic heart failure. Pedersen HK, et al. **Acad Radiol** 1996 Jun;3(6):493–9

High-resolution CT scan in the evaluation of exercise-induced interstitial pulmonary edema in cardiac patients. Brasileiro FC, et al. **Chest** 1997 Jun;111(6):1577–82

Quantitative evaluation of regional myocardial perfusion using fast X-ray computed tomography. Schmermund A, et al. **Herz** 1997 Feb;22(1):29–39 (30 ref.)

What is "congested" in cardiac failure? A newer approach to plain film interpretation of cardiac failure. Milne EN. **Rays** 1997 Jan-Mar;22(1):94–106 **(Eng, Ita)**

[Thoracic radiography as routine within cardiological diagnosis?] Häuber B, et al. **Dtsch Med Wochenschr** 1997 Mar 27;122(13):396–9 (Eng. Abstr.) **(Ger)**

RADIONUCLIDE IMAGING

Impaired matching of perfusion and ventilation in heart failure detected by 133xenon. Lewis NP, et al. **Basic Res Cardiol** 1996;91 Suppl 1:45–9

Massive cardiac Ga-67 uptake in a child with pulmonary hypertension, heart failure, and bleeding. Karimeddini MK, et al. **Clin Nucl Med** 1997 Feb;22(2):128–9

Use of gated SPECT imaging in the prediction of myocardial viability. Shehata AR, et al. **J Nucl Cardiol** 1997 Jan-Feb; 4(1 Pt 1):99–100

Ambulatory monitoring of left ventricular function: walk and bicycle exercise in congestive heart failure. Nappi A, et al. **J Nucl Med** 1997 Jun;38(6):948–53

Development of radioligands for the imaging of cardiac beta-adrenoceptors using SPECT. Part II: Pharmacological characterization in vitro and in vivo of new 123I-labeled beta-adrenoceptor antagonists. Dubois EA, et al. **Nucl Med Biol** 1997 Jan;24(1):9–13

Cardiac 123I-MIBG uptake is affected by variable uptake in reference regions: implications for interpretation in clinical studies. Somsen GA, et al. **Nucl Med Commun** 1996 Oct;17(10):872–6

Reproducibility of left ventricular volume measurements at rest and during bicycle exercise in patients with congestive heart failure: a combined radionuclide and haemodynamic study. Wieshammer S, et al. **Nucl Med Commun** 1996 Jul; 17(7):591–5

[Value of cardiac scintigraphy with I123 meta-iodobenzylguanidine in congestive heart failure. A review] Agostini D, et al. **Ann Cardiol Angeiol (Paris)** 1997 May-Jun;46(5-6):293-302 (50 ref.) (Eng. Abstr.) **(Fre)**

[Usefulness of 123I-BMIPP myocardial scintigraphy for evaluation of the left ventricular function in patients with chronic heart failure] Watanabe K, et al. **Kaku Igaku** 1996 Jul;33(7):743-51 (Eng. Abstr.) **(Jpn)**

REHABILITATION

Effects of exercise training and activity restriction on 6-minute walking test performance in patients with chronic heart failure. Meyer K, et al. **Am Heart J** 1997 Apr; 133(4):447-53

Predictors of response to exercise training in severe chronic congestive heart failure. Meyer K, et al. **Am J Cardiol** 1997 Jul 1;80(1):56-60

High intensity knee extensor training, in patients with chronic heart failure. Major skeletal muscle improvement. Magnusson G, et al. **Eur Heart J** 1996 Jul;17(7):1048-55

Exercise training in patients with severe congestive heart failure: enhancing peak aerobic capacity while minimizing the increase in ventricular wall stress. Demopoulos L, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):597-603

Exercise physiology in patients with left ventricular assist devices. Humphrey R. **J Cardiopulm Rehabil** 1997 Mar-Apr;17(2):73-5

Exercise testing and training of patients with heart failure due to left ventricular systolic dysfunction. Keteyian SJ, et al. **J Cardiopulm Rehabil** 1997 Jan-Feb;17(1):19-28 (58 ref.)

Considerations related to disability and exercise in elderly women with congestive heart failure. Guerra-Garcia H, et al. **J Cardiovasc Nurs** 1997 Jul;11(4):60-74 (86 ref.)

Factors contributing to rehospitalization of elderly patients with heart failure. Happ MB, et al. **J Cardiovasc Nurs** 1997 Jul;11(4):75-84

Physical training in heart transplant recipients. Kavanagh T. **J Cardiovasc Risk** 1996 Apr;3(2):154-9 (47 ref.)

Interval training in patients with severe chronic heart failure: analysis and recommendations for exercise procedures. Meyer K, et al. **Med Sci Sports Exerc** 1997 Mar; 29(3):306-12

Peripheral muscle training in patients with clinical signs of heart failure. Cider A, et al. **Scand J Rehabil Med** 1997 Jun;29(2):121-7

Exercise for patients with congestive heart failure. Shephard RJ. **Sports Med** 1997 Feb;23(2):75-92 (164 ref.)

[Segmental rehabilitation in cardiac failure: short and long-term results] Chevalier L, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):819-24 (Eng. Abstr.) **(Fre)**

[Physical training of patients with high grade compromise of heart pumping function] Schuler G, et al. **Z Kardiol** 1996;85 Suppl 6:253-61 (36 ref.) (Eng. Abstr.) **(Ger)**

[Physical exercise and heart failure. A review article] Larsen AI, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30; 116(23):2769-71 (41 ref.) (Eng. Abstr.) **(Nor)**

[Exercise rehabilitation in patients with heart failure--palliation or disease modification?] Ponikowski P, et al. **Pol Arch Med Wewn** 1996 Jun;95(6):565-71 (59 ref.) **(Pol)**

[Rehabilitation in chronic heart failure] Kubinyi AM, et al. **Przegl Lek** 1995;52(10):518-21 (32 ref.) **(Pol)**

SURGERY

Acute reversibility of pulmonary hypertension predicts neither long-term hemodynamic response nor outcome in patients awaiting heart transplantation. Levine TB, et al. **Am J Cardiol** 1997 Jan 1;79(1):105-6

Recipient selection and management before cardiac transplantation. Frantz RP, et al. **Am J Med Sci** 1997 Sep; 314(3):139-52

Effects of nitric oxide after cardiac transplantation in the setting of recipient pulmonary hypertension. Chen EP, et al. **Ann Thorac Surg** 1997 Jun;63(6):1546-55

Permanent mechanical circulatory support with an implantable left ventricular assist device. McCarthy PM, et al. **Ann Thorac Surg** 1997 May;63(5):1458-61

Low thromboembolic risk without anticoagulation using advanced-design left ventricular assist devices. Slater JP, et al. **Ann Thorac Surg** 1996 Nov;62(5):1321-7; discussion 1328 (41 ref.)

Hemodynamic effects of different pacing ratios in chronic dynamic double cardiomyoplasty. Soltero ER, et al. **Ann Thorac Surg** 1996 Nov;62(5):1380-7

Hemodynamic effects of cardiomyoplasty in an experimental model of acute heart failure and atrial fibrillation. Cabrera Fischer EI, et al. **Artif Organs** 1996 Nov;20(11):1215-9

Extracorporeal membrane oxygenation as a bridge to cardiac transplantation in children. Ishino K, et al. **Artif Organs** 1996 Jun;20(6):728-32

Biventricular bypass with oxygenation for postcardiotomy ventricular failure. Kodera K, et al. **Artif Organs** 1996 Jun; 20(6):724-7

Bridging to transplant. Equal extended survival for patients undergoing LVAD support when compared with long-term medical management. Mehta SM, et al. **ASAIO J** 1996 Sep-Oct;42(5):M406-10

It is right to publicise recent advances in the media [letter] Angelini GD, et al. **BMJ** 1997 Sep 13;315(7109):679

What is it acceptable to die of? [letter; comment] Goodman NW. **BMJ** 1997 May 17;314(7092):1484. Comment on: BMJ 1997 Feb 15;314(7079):503-5. Comment on: BMJ 1997 Feb 15;314(7079):506-9.

Left ventricular volume reduction for end-stage heart failure: new horizon or false dawn? Bryan AJ, et al. **Br J Hosp Med** 1997 Apr 2-15;57(7):323-5

Dynamic cardiomyoplasty. Tang G, et al. **Br J Hosp Med** 1997 Apr 2-15;57(7):329-32

Long-term implantable circulatory support. Westaby S, et al. **Br J Hosp Med** 1997 Apr 2-15;57(7):333-8

Bridge experience with long-term implantable left ventricular assist devices. Are they an alternative to transplantation? Oz MC, et al. **Circulation** 1997 Apr 1; 95(7):1844-52

Resurrection after mechanical circulatory support [editorial; comment] Rose EA, et al. **Circulation** 1997 Jul 15; 96(2):393-5. Comment on: Circulation 1997 Jul 15;96(2):542-9.

Current status of heart transplantation [editorial] Costanzo MR. **Curr Opin Cardiol** 1996 Mar;11(2):161-5 (22 ref.)

Radical alternatives to transplantation. Starling RC. **Curr Opin Cardiol** 1997 Mar;12(2):166-71 (22 ref.)

Selection and management of candidates for heart transplantation. Stevenson LW. **Curr Opin Cardiol** 1996 Mar;11(2):166-73 (54 ref.)

The brouhaha surrounding cardiac transplantation: the need to place outcomes in perspective. Young JB. **Curr Opin Cardiol** 1997 Mar;12(2):131-5 (0 ref.)

The prognostic significance of non-invasive cardiac tests in heart transplant recipients [see comments] Barbir M, et al. **Eur Heart J** 1997 Apr;18(4):692-6. Comment in: Eur Heart J 1997 Apr;18(4):537-8.

Dynamic cardiomyoplasty: how well does it work? Lange R, et al. **Eur Heart J** 1997 Feb;18(2):191-7

Heart transplantation in patients over 54 years of age. Mortality, morbidity and quality of life [see comments] Rickenbacher PR, et al. **Eur Heart J** 1997 May;18(5):870-8 . Comment in: Eur Heart J 1997 May;18(5):708.

Cardiomyoplasty in a patient with dextrocardia [letter] Van Doorn CA, et al. **Eur Heart J** 1996 Jun;17(6):967-8

Cardiac transplantation in childhood cancer survivors in Great Britain. Levitt G, et al. **Eur J Cancer** 1996 May; 32A(5):826-30

Cardiomyoplasty as an isolated procedure to treat refractory heart failure. Lorusso R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):363-72

Will permanent LVADs be better than heart transplantation? Massad MG, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S11-7

The Concerted Action 'Heart' European registry on clinical application of mechanical circulatory support systems: bridge to transplant. The Registry Scientific Committee. Quaini E, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):182-8

The need for artificial hearts. Westaby S. **Heart** 1996 Sep; 76(3):200-6

Advances in the treatment of left ventricular systolic dysfunction. McKee J, et al. **J Ark Med Soc** 1996 Nov; 93(6):291-4

Partial left ventriculectomy to improve left ventricular function in end-stage heart disease [published erratum appears in J Card Surg 1997 Jan-Feb;12(1):ix] Batista RJ, et al. **J Card Surg** 1996 Mar-Apr;11(2):96-7; discussion 98

Skeletal muscle ventricles: another alternative for heart failure. Niinami H, et al. **J Card Surg** 1996 Jul-Aug; 11(4):280-7 (40 ref.)

Long-term left ventricular assist device support: a novel pump rate challenge exercise protocol to monitor native left ventricular function. Deng MC, et al. **J Heart Lung Transplant** 1997 Jun;16(6):629-35

Restrictive criteria for heart transplantation candidacy maximize survival of patients with advanced heart failure. Frigerio M, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):160-8

Symptom distress three months after heart transplantation. Jalowiec A, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):604-14

Prognosis determination in patients with advanced heart failure. Kao W, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):S2-6 (29 ref.)

Delayed reversal of impaired metabolic vasodilation in patients with end-stage heart failure during long-term circulatory support with a left ventricular assist device. Khan T, et al. **J Heart Lung Transplant** 1997 Apr; 16(4):449-53

Combined orthotopic heart and liver transplantation for genetic hemochromatosis. Surakomol S, et al. **J Heart Lung Transplant** 1997 May;16(5):573-5

Long-term outcome, survival analysis, and risk stratification of dynamic cardiomyoplasty. Furnary AP, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1640-9; discusion 1649-50

Native cardiectomy in a heterotopic heart transplant recipient. Pham SM, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1109-11

Left-ventricular-volume reduction for end-stage heart failure [letter] [see comments] Angelini GD, et al. **Lancet** 1997 Aug 16;350(9076):489. Comment in: Lancet 1997 Aug 16;350(9076):456.

Does surgical reduction of heart size reduce heart failure? [comment] Carpentier A. **Lancet** 1997 Aug 16; 350(9076):456. Comment on: Lancet 1997 Aug 16;350(9076):489.

Congestive heart failure with tetralogy of Fallot relieved by an aortopulmonary shunt. Watson DG, et al. **Pediatr Cardiol** 1997 Sep-Oct;18(5):381-4

Right ventricular ejection fraction predicts urgent need for heart transplantation. Frey B, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):592

Heart transplantation for doxorubicin-induced congestive heart failure in children and adolescents. Musci M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):578-9

[Successful heart transplantation in long-term ventilated patients (letter; comment)] Bredée JJ, et al. **Ned Tijdschr Geneeskd** 1997 Feb 15;141(7):353-5. Comment on: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2353-5. **(Dut)**

[Indications for heart transplantation (excluding emergencies)] Cohen-Solal A, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:15-22 (51 ref.) (Eng. Abstr.) **(Fre)**

[Dynamic cardiomyoplasty: models of action and indications] Hagège A, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:47-50 (29 ref.) (Eng. Abstr.) **(Fre)**

[Heart transplantation. Indications, results and perspectives] Wahlers T, et al. **Internist (Berl)** 1996 Mar;37(3):283-8 (25 ref.) **(Ger)**

[Orthotopic and heterotopic heart transplantation] Konertz W. **Z Kardiol** 1996;85 Suppl 4:69-73 (Eng. Abstr.) **(Ger)**

[Value of dynamic cardiomyoplasty] Lange R, et al. **Z Kardiol** 1996;85 Suppl 4:49-58; discussion 59 (Eng. Abstr.) **(Ger)**

[Dynamic cardiomyoplasty: current status and concepts of the mechanism of action] Lange R, et al. **Z Kardiol** 1996; 85 Suppl 6:309-15 (25 ref.) (Eng. Abstr.) **(Ger)**

[Echocardiography versus catheterization in the selection of patients for heart transplantation] Recusani F, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):469-76 **(Ita)**

[Emergency myectomy in a patient with hypertrophic obstructive cardiomyopathy complicated with left heart failure and cardiac arrest] Abe H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1896-901 (Eng. Abstr.) **(Jpn)**

[A emergent surgical case for progressive heart failure with cardiac cachexia] Koike R, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):190-4 (Eng. Abstr.) **(Jpn)**

[Extracorporeal heart pump--a bridge to heart transplantation. First Norwegian experiences] Fiane AE, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2295-8 (Eng. Abstr.) **(Nor)**

[Initial experience with partial left ventriculectomy as a treatment for end-stage heart failure (see comments)] Bombonato R, et al. **Arq Bras Cardiol** 1996 Apr; 66(4):189-92 (Eng. Abstr.). Comment in: Arq Bras Cardiol 1996 Apr;66(4):223-4. **(Por)**

[Initial experience with partial left ventriculectomy as a treatment for end-stage heart failure (editorial; comment)] Moreira LF. **Arq Bras Cardiol** 1996 Apr;66(4):223-4. Comment on: Arq Bras Cardiol 1996 Apr;66(4):189-92. **(Por)**

[The use of skeletal muscle in the surgical treatment of heart failure] Saenko VF, et al. **Klin Khir** 1996;(7):33-7 (38 ref.) **(Rus)**

[Cardiomyoplasty--a surgical method of treatment in heart failure] Nemkov AS, et al. **Vestn Khir Im I I Grek** 1996; 155(6):9-13 (Eng. Abstr.) **(Rus)**

[Guideline 7. Intensive treatment of unstable heart failure. Indications for heart transplantation] Navarro-López F, et al. **Rev Esp Cardiol** 1997;50 Suppl 1:44-6 (Eng. Abstr.) **(Spa)**

THERAPY

Positive airway pressure support and myocardial ischemia [letter; comment] Hipona RA, et al. **Acad Emerg Med** 1996 Jul;3(7):729-30. Comment on: Acad Emerg Med 1995 Aug;2(8):714-8.

More on positive airway pressure support [letter; comment] Pollack CV Jr. **Acad Emerg Med** 1997 Mar;4(3):240. Comment on: Acad Emerg Med 1995 Aug;2(8):714-8.

Hepatic haemangioendothelioma presenting with early heart failure in a newborn: treatment with hepatic artery embolization and interferon. Fok TF, et al. **Acta Paediatr** 1996 Nov;85(11):1373-5

The evaluation and treatment of congestive heart failure in Alaska. Gordian ME. **Alaska Med** 1996 Jul-Sep; 38(3):101-4, 108

Voluntary control of vascular tone by using skin-temperature biofeedback-relaxation in patients with advanced heart failure [see comments] Moser DK, et al. **Altern Ther Health Med** 1997 Jan;3(1):51-9. Comment in: Altern Ther Health Med 1997 May;3(3):18, 21.

The acute hemodynamic effects of right ventricular septal pacing in patients with congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Gold MR, et al. **Am J Cardiol** 1997 Mar 1;79(5):679-81

Effects of short-term exercise training and activity restriction on functional capacity in patients with severe chronic congestive heart failure. Meyer K, et al. **Am J Cardiol** 1996 Nov 1;78(9):1017-22

Ventilatory and hemodynamic effects of continuous positive airway pressure in left heart failure. Lenique F, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):500-5

Immediate cardiac allograft failure. ECMO versus total

artificial heart support. Adamson RM, et al. **ASAIO J** 1996 Jul–Aug;42(4):314–6
Control of the artificial heart. Allen GS, et al. **ASAIO J** 1996 Nov–Dec;42(6):932–7 (75 ref.)
Isolation of "myocardial depressant factor(s)" from the ultrafiltrate of heart failure patients with acute renal failure. Blake P, et al. **ASAIO J** 1996 Sep–Oct;42(5):M911–5
Bridging to transplant. Equal extended survival for patients undergoing LVAD support when compared with long–term medical management. Mehta SM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M406–10
Experimental study of combination of extraaortic balloon counterpulsation and ventricular assist cup to acute heart failure in dogs. Mitsumaru A, et al. **ASAIO J** 1997 May–Jun;43(3):187–92
Experimental study of extraaortic balloon counterpulsation as a bridge to other mechanical assists. Odaguchi H, et al. **ASAIO J** 1996 May–Jun;42(3):190–4
Current management of congestive heart failure. Doughty RN, et al. **Br J Hosp Med** 1996 May 1–14;55(9):539–44 (24 ref.)
Left ventricular assist device infection is associated with increased mortality but is not a contraindication to transplantation. Herrmann M, et al. **Circulation** 1997 Feb 18;95(4):814–7
Fixing the failing heart. Lenfant C. **Circulation** 1997 Feb 18; 95(4):771–2
Long–term follow–up of cardioverter–defibrillator implanted under conscious sedation in prepectoral subfascial position. Pacifico A, et al. **Circulation** 1997 Feb 18;95(4):946–50
Resurrection after mechanical circulatory support [editorial; comment] Rose EA, et al. **Circulation** 1997 Jul 15; 96(2):393–5. Comment on: Circulation 1997 Jul 15;96(2):542–9.
Management of congestive heart failure in primary care settings. Ahmed O. **Compr Ther** 1997 Jul;23(7):472–6 (27 ref.)
The management of congestive heart failure. Bergin JD, et al. **Compr Ther** 1996 May;22(5):291–6 (19 ref.)
Pharmacologic and nonpharmacologic treatment of ventricular arrhythmias in heart failure. Stevenson WG, et al. **Curr Opin Cardiol** 1997 May;12(3):242–50 (80 ref.)
The treatment of heart failure. Task Force of the Working Group on Heart Failure of the European Society of Cardiology. **Eur Heart J** 1997 May;18(5):736–53
Prostaglandin E1—bridge to cardiac transplantation. Technique, dosage, results. Pacher R, et al. **Eur Heart J** 1997 Feb;18(2):318–29
Myocardial recovery through ECMO after repair of total anomalous pulmonary venous connection: the importance of left heart unloading. Ishino K, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):585–7
Unexpected complication of intra–aortic balloon counterpulsation via the ascending aorta: balloon migration. Santini F, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):579–81
What can be expected for the management of heart failure in the near future? Moss AJ. **Eur J Clin Pharmacol** 1996; 49 Suppl 1:S41–4 (12 ref.)
Problems and pitfalls in evaluating studies for pacing in heart failure. Auricchio A, et al. **G Ital Cardiol** 1997 Jun; 27(6):593–9 (42 ref.)
Management strategies of patients with severe congestive heart failure. Current limited goals versus future definitive solutions [editorial] el–Sherif N. **G Ital Cardiol** 1997 Jun; 27(6):600–2 **(Eng, Ita)**
Beliefs about medication and dietary compliance in people with heart failure: an instrument development study. Bennett SJ, et al. **Heart Lung** 1997 Jul–Aug;26(4):273–9
The unique management of refractory advanced systolic heart failure. Mehra MR, et al. **Heart Lung** 1997 Jul–Aug; 26(4):280–8 (30 ref.)
Management of end–stage heart failure [editorial] Moulopoulos SD. **Int J Artif Organs** 1996 Jun;19(6):327–8 (6 ref.)
Preoperative management of congestive heart failure in neonates: the closed hood. Kreutzer C, et al. **Int J Cardiol** 1997 Jul 25;60(2):139–42
Acute admissions with heart failure to a district general hospital serving a multiracial population. Lip G, et al. **Int J Clin Pract** 1997 Jun;51(4):223–7
Using a clinical practice guideline to measure physician practice: translating a guideline for the management of heart failure [see comments] James PA, et al. **J Am Board Fam Pract** 1997 May–Jun;10(3):206–12. Comment in: J Am Board Fam Pract 1997 May–Jun;10(3):237–9.
Challenges in measuring adherence to clinical practice guidelines [editorial;; comment] Sugarman JR. **J Am Board Fam Pract** 1997 May–Jun;10(3):237–9. Comment on: J Am Board Fam Pract 1997 May–Jun;10(3):206–12.
Supplemental oxygen administration and congestive heart failure [letter; comment] Broka SM, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1433–4. Comment on: J Am Coll Cardiol 1996 Feb;27(2):353–7.
Impact of a comprehensive heart failure management program on hospital readmission and functional status of patients with advanced heart failure. Fonarow GC, et al. **J Am Coll Cardiol** 1997 Sep;30(3):725–32
Treatment of patients admitted to the hospital with congestive heart failure: specialty–related disparities in practice patterns and outcomes. Reis SE, et al. **J Am Coll Cardiol** 1997 Sep;30(3):733–8
Effect of continuous positive airway pressure on mitral regurgitant fraction and atrial natriuretic peptide in patients with heart failure. Tkacova R, et al. **J Am Coll Cardiol** 1997 Sep;30(3):739–45
Practice guidelines for the treatment of heart failure: a commentary on the facts you need to know. Agency for Health Care Policy and Research. Stomel RJ, et al. **J Am Osteopath Assoc** 1996 Sep;96(9):541–3
Information vs knowledge [editorial] Cohn JN. **J Card Fail** 1996 Jun;2(2):67–9
Objective assessment of the response to treatment of severe heart failure using a 9–minute walk test on a patient–powered treadmill. Kaddoura S, et al. **J Card Fail** 1996 Jun;2(2):133–9
Exercise training in heart failure: an intervention whose time has come [editorial; comment] Sullivan M. **J Card Fail** 1997 Mar;3(1):13–4. Comment on: J Card Fail 1997 Mar;3(1):3–12.
Case 4—1996 the use of the implantable ventricular assist device in the treatment of right ventricular failure [clinical conference] Insler SR, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):672–7
Muscarinic receptor modulation of basal and beta–adrenergic stimulated function of the failing human left ventricle. Newton GE, et al. **J Clin Invest** 1996 Dec 15; 98(12):2756–63
Mid–term results of heart transplantation, cardiomyoplasty, and medical treatment of refractory heart failure caused by idiopathic dilated cardiomyopathy. Bocchi EA, et al. **J Heart Lung Transplant** 1996 Jul;15(7):736–45
Successful immunomodulation with intravenous gamma globulin and cyclophosphamide in an alloimmunized heart transplant recipient. De Marco T, et al. **J Heart Lung Transplant** 1997 Mar;16(3):360–5
Predictors and determinants of hospital length of stay in congestive heart failure in ten community hospitals. Philbin EF, et al. **J Heart Lung Transplant** 1997 May;16(5):548–55
Differential modulation of cytokine production by drugs: implications for therapy in heart failure. Matsumori A, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2491–9
Managing heart failure in a specialist clinic. Houghton AR, et al. **J R Coll Physicians Lond** 1997 May–Jun;31(3):276–9
An 88–year–old woman facing the end of life [clinical conference] Lynn J. **JAMA** 1997 May 28;277(20):1633–40
Clinical crossroads: an 88–year–old woman facing the end of life [letter] Portnoi VA. **JAMA** 1997 Sep 24;278(12):977; discussion 978
Does QI work? The Management to Improve Survival in Congestive Heart Failure (MISCHF) study [see comments] Philbin EF, et al. **Jt Comm J Qual Improv** 1996 Nov; 22(11):721–33. Comment in: Jt Comm J Qual Improv 1996 Nov;22(11):719–20.
Daily hemofiltration in severe heart failure. Iorio L, et al. **Kidney Int Suppl** 1997 Jun;59:S62–5
Extracorporeal support for intractable cardiorespiratory failure due to meningococcal disease [see comments] Goldman AP, et al. **Lancet** 1997 Feb 15;349(9050):466–9. Comment in: Lancet 1997 May 10;349(9062):1397; discussion 1397–8. Comment in: Lancet 1997 May 10;349(9062):1398.
Burden and outcomes of hospitalisation for congestive heart failure [see comments] Blyth FM, et al. **Med J Aust** 1997 Jul 21;167(2):67–70. Comment in: Med J Aust 1997 Jul 21;167(2):61–2.
Reducing the burden of chronic heart failure [editorial; comment] Krum H. **Med J Aust** 1997 Jul 21;167(2):61–2 . Comment on: Med J Aust 1997 Jul 21;167(2):67–70.
Altered beta–adrenergic receptor signaling in heart failure, in vivo gene transfer via adeno and adeno–associated virus. Ping P, et al. **Microcirculation** 1996 Jun;3(2):225–8
Intra–aortic balloon pump counterpulsation in the management of concomitant cerebral vasospasm and cardiac failure after subarachnoid hemorrhage: technical case report. Apostolides PJ, et al. **Neurosurgery** 1996 May; 38(5):1056–9; discussion 1059–60
Heart failure secondary to left ventricular systolic dysfunction. Therapeutic advances and treatment recommendations. Dracup K. **Nurse Pract** 1996 Sep; 21(9):56–8, 61, 65–8 (30 ref.)
Acute hemodynamic improvement by pacing in patients with severe congestive heart failure. Auricchio A, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):313–24
Multisite pacing for end–stage heart failure: early experience. Cazeau S, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1748–57
Congestive heart failure and VVI pacing mode: dynamic behavior of the dispersion of ventricular repolarization. Manolis AG, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1890–3
The management of congestive heart failure. McAlister FA, et al. **Postgrad Med J** 1997 Apr;73(858):194–200 (37 ref.)
Relationships between self–care resources and the quality of life of persons with heart failure: a comparison of treatment groups. Baas LS, et al. **Prog Cardiovasc Nurs** 1997 Winter; 12(1):25–38
Long–term successful management of refractory congestive cardiac failure by intermittent ambulatory peritoneal ultrafiltration. Tormey V, et al. **QJM** 1996 Sep;89(9):681–3
The diagnosis and management of cardiac failure. Hillis GS, et al. **Scott Med J** 1996 Jun;41(3):72–5 (47 ref.)
Hemodynamic and sympathoinhibitory effects of nasal CPAP in congestive heart failure. Bradley TD. **Sleep** 1996 Dec; 19(10 Suppl):S232–5 (26 ref.)
Effects of continuous positive airway pressure on cardiac output in experimental heart failure. Scharf SM. **Sleep** 1996 Dec;19(10 Suppl):S240–2
[End–stage cardiac failure: therapeutic strategies. Paris, 29 February–1 March 1996] **Arch Mal Coeur Vaiss** 1996 Nov; 89 Spec No 6:7–85 **(Fre)**
[What are the indications for ambulatory mechanical hart–assist devices for the left ventricle?] Bouhour JB, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:81–4 (Eng. Abstr.) **(Fre)**
[Terminal cardiac failure. Circulatory assist devices] Duveau D, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:51–4 (Eng. Abstr.) **(Fre)**
[Improvement of patients' condition by using a mechanical heart–assist device] Jacquet L. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:75–9 (13 ref.) (Eng. Abstr.) **(Fre)**
[Mechanical circulatory assistance using the Novacor implanted device. A postoperative follow–up] Le Besnerais P, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:71–3 (Eng. Abstr.) **(Fre)**
[Baxter–Novacor type implanted ventricular device: a possible alternative to transplantation] Loisance D. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:65–70 (Eng. Abstr.) **(Fre)**
[Left ventricular assistance by postoperative mechanical devices in neonates] Robin J, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):661–5 (Eng. Abstr.) **(Fre)**
[Terminal heart failure; therapeutic strategies. Drug therapy in cases of absence of possibility of heart transplantation: dobutamine therapy, aspects of compassion?] Roul G, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:27–32 (41 ref.) (Eng. Abstr.) **(Fre)**
[Effects of temporary dual–chamber cardiac pacing in refractory cardiac failure] Scanu P, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1643–9 (Eng. Abstr.) **(Fre)**
[Uni– or biventricular circulatory assist devices. Selection criteria and patients' follow–up, choice of device] Villemot JP, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:55–63 (21 ref.) (Eng. Abstr.) **(Fre)**
[First experience in treatment of terminal cardiac insufficiency using multisite stimulation] Cazeau S, et al. **Bull Acad Natl Med** 1996 Dec;180(9):2065–75; discussion 2075–8 (Eng. Abstr.) **(Fre)**
[Indication of mechanical circulatory assistance] Dubois–Randé JL, et al. **Chirurgie** 1997 Jan; 121(9–10):676–84 (24 ref.) (Eng. Abstr.) **(Fre)**
[Current treatments of congestive heart failure] Slama MA, et al. **Presse Med** 1996 Dec 14;25(39):1961–6 (32 ref.) (Eng. Abstr.) **(Fre)**
[Ventricular hypertrophy and cardiac insufficiency: current treatment based on recent physiopathological discoveries (editorial)] Gallino AF, et al. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):233 **(Fre)**
[Heart failure patients are often on the verge of decompensation. Methods for reliable management in general practice] Dotzer F. **Fortschr Med** 1997 Jun 10; 115(16):46–7 **(Ger)**
[Cardiac insufficiency. Which therapeutic possibilities have long–term results] **Z Gesamte Inn Med** 1992 Aug;47(8 Suppl):1–8 **(Ger)**
[Percutaneous "high risk" angioplasty with prophylactic cardiopulmonary support. High risk PTCA with mechanical circulatory support] Borges AC, et al. **Z Kardiol** 1996;85 Suppl 4:21–8 (Eng. Abstr.) **(Ger)**
[Inflammatory mediators in patients with biventricular assist device systems] Hasper D, et al. **Z Kardiol** 1996 Nov; 85(11):820–7 (Eng. Abstr.) **(Ger)**
[Acute and chronic mechanical circulatory support] Waldenberger FR, et al. **Z Kardiol** 1996;85 Suppl 4:61–8 (Eng. Abstr.) **(Ger)**
[Management of heart failure in infants and children and infants in the 90s] Nir A, et al. **Harefuah** 1996 May 1; 130(9):626–9 (45 ref.) **(Heb)**
[The duration of the benefits of ultrafiltration in patients with moderate heart failure] Assanelli E, et al. **Cardiologia** 1997 Jan;42(1):95–8 **(Ita)**
[Continuous veno–venous hemofiltration in acute renal insufficiency and heart failure] Tortorella G, et al. **Cardiologia** 1997 Aug;42(8):845–8 (Eng. Abstr.) **(Ita)**
[Treatment of chronic heart failure. Discussion] **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):94–109 **(Jpn)**
[Treatment of heart failure in the aged and problems] Aikawa J, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10; 83(1):88–93 (8 ref.) **(Jpn)**
[Aggressive therapy in patients with heart failure] Iizuka M. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):48–52 (5 ref.) **(Jpn)**
[Digitalis and diuretics for therapy in congestive heart failure] Sato T. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):53–8 (6 ref.) **(Jpn)**
[Aiming for the improvement of heart failure prognosis (editorial)] Yazaki Y. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):1–2 **(Jpn)**
[Heart failure in the elderly, its cause, pathophysiology and treatment] Shimada K. **Nippon Ronen Igakkai Zasshi** 1996 Dec;33(12):907–10 (11 ref.) **(Jpn)**

[Optimization of the indications for and therapeutic management of patients referred for heart transplantation] Rohde LE, et al. **Arq Bras Cardiol** 1996 Sep;67(3):189–93 (33 ref.) **(Por)**

[Anatomo-clinical correlation. Case 2/96 (letter)] Sternick EB. **Arq Bras Cardiol** 1996 Nov;67(5):367–8 **(Por)**

[The evaluation of the efficacy of hemosorption and plasmapheresis in IHD complicated by chronic heart failure] Koriakova NN, et al. **Ter Arkh** 1996;68(5):71–3 (Eng. Abstr.) **(Rus)**

[Guideline 8. Guidelines for diagnosis and treatment of congestive heart failure and shock (DRG 127). Hospitalization criteria] Navarro-López F, et al. **Rev Esp Cardiol** 1997;50 Suppl 1:47–8 (Eng. Abstr.) **(Spa)**

[Guideline 4. Treatment of heart failure] Navarro-López F, et al. **Rev Esp Cardiol** 1997;50 Suppl 1:27–31 (Eng. Abstr.) **(Spa)**

[Non-invasive intermittent mechanical ventilation: usefulness in treatment of chronic severe heart failure] Martínez A, et al. **Rev Med Chil** 1995 Dec;123(12):1467–75 (Eng. Abstr.) **(Spa)**

[The effect of the SKN charcoal enterosorbent on the clinico-laboratory indices of patients with chronic circulatory failure] Nykula TD, et al. **Lik Sprava** 1996 Jul-Sep;(7–9):106–9 (Eng. Abstr.) **(Ukr)**

ULTRASONOGRAPHY

Mitral flow velocity changes after 6 months of optimized therapy provide important hemodynamic and prognostic information in patients with chronic heart failure. Traversi E, et al. **Am Heart J** 1996 Oct;132(4):809–19

Assessment of right ventricular function in patients with congestive heart failure by echocardiographic automated boundary detection. Forni G, et al. **Am J Cardiol** 1996 Dec 1;78(11):1317–21

Endomyocardial biopsy-proven light chain amyloidosis (AL) without echocardiographic features of infiltrative cardiomyopathy. Gertz MA, et al. **Am J Cardiol** 1997 Jul 1;80(1):93–5

Open-access echocardiography to general practitioners for suspected heart failure. Murphy JJ, et al. **Br J Gen Pract** 1996 Aug;46(409):475–6

Loading manipulations improve the prognostic value of Doppler evaluation of mitral flow in patients with chronic heart failure. Pozzoli M, et al. **Circulation** 1997 Mar 4; 95(5):1222–30

Mechanisms of cardiopulmonary resuscitation in a patient with right ventricular dilatation--an echocardiographic contribution. Gilon D, et al. **Clin Cardiol** 1996 Jan; 19(1):69–70

The prevalence of left ventricular diastolic filling abnormalities in patients with suspected heart failure. Davie AP, et al. **Eur Heart J** 1997 Jun;18(6):981–4

Right atrial thrombus presenting in a patient with heart failure and disseminated intravascular coagulation [letter] [see comments] Lo SS, et al. **Eur Heart J** 1996 Oct; 17(10):1605–6. Comment in: Eur Heart J 1997 Apr;18(4):697.

Changing patterns of investigation and treatment of cardiac failure in hospital. Hillis GS, et al. **Heart** 1996 Nov; 76(5):427–9

Justifying echocardiography in patients with heart failure. Wright RF. **J Am Soc Echocardiogr** 1996 Jul-Aug; 9(4):582–4

Diagnosing congestive heart failure. Brown V, et al. **J Fam Pract** 1997 Sep;45(3):197–8

Right heart failure: diagnosis via ultrasonography of the inferior vena cava and hepatic veins. Goei R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):36–9

[Echocardiography in the assessment of the patient with heart insufficiency: assessment parameters of the pharmacologic treatment] Frigerio M, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):457–61 **(Ita)**

[Prognostic value of serial Doppler echocardiographic follow-up of transmitral flow patterns in patients with congestive heart failure who presented with pulmonary edema] Yamamuro A, et al. **J Cardiol** 1996 Jun;27(6):321–7 (Eng. Abstr.) **(Jpn)**

URINE

Increased renal formation of thromboxane A2 and prostaglandin F2 alpha in heart failure. Castellani S, et al. **Am Heart J** 1997 Jan;133(1):94–100

Increased renal natriuretic peptide (urodilatin) excretion in heart failure patients. Drummer C, et al. **Eur J Med Res** 1997 Aug 28;2(8):347–54

VETERINARY

Myocardial infarction complicating management of congestive heart failure in a dog. DeFrancesco TC, et al. **J Am Anim Hosp Assoc** 1996 Jan-Feb;32(1):68–72

Mitral valve reconstruction in a toy-breed dog. Boggs LS, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1872–6

Clinical and pathologic findings in Doberman pinschers with occult cardiomyopathy that died suddenly or developed congestive heart failure: 54 cases (1984–1991). Calvert CA, et al. **J Am Vet Med Assoc** 1997 Feb 15;210(4):505–11

ECG of the month. McKnight AL, et al. **J Am Vet Med Assoc** 1996 Oct 1;209(7):1239–40

Heart failure in a macaw with atherosclerosis of the aorta and brachiocephalic arteries. Phalen DN, et al. **J Am Vet Med Assoc** 1996 Oct 15;209(8):1435–40

Determination of halothane gene mutation associated with malignant hyperthermia in sows dead of cardiac failure. Lambert AJ, et al. **J Vet Diagn Invest** 1996 Oct;8(4):513–5

Submaximal exercise testing using lactate threshold and venous oxygen tension as endpoints in normal dogs and in dogs with heart failure. Kittleson MD, et al. **J Vet Intern Med** 1996 Jan-Feb;10(1):21–7

Efficacy of monotherapy with benazepril, an angiotensin converting enzyme inhibitor, in dogs with naturally acquired chronic mitral insufficiency. Kitagawa H, et al. **J Vet Med Sci** 1997 Jul;59(7):513–20

Congestive heart failure due to bilateral atrioventricular valve insufficiency in two dogs. Takemura N, et al. **J Vet Med Sci** 1996 Apr;58(4):381–4

Radiographic evaluation of caudal vena cava size in dogs. Lehmkuhl LB, et al. **Vet Radiol Ultrasound** 1997 Mar-Apr; 38(2):94–100

Atrial natriuretic peptide and plasma volume of dogs suffering from heart failure or dehydration. Vollmar AM, et al. **Zentralbl Veterinarmed A** 1994 Sep;41(7):548–57

[The effectiveness and tolerance of ramipril in comparison to captopril for heart failure in dogs] Hofmann S, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 May;103(5):159–63 (Eng. Abstr.) **(Ger)**

HEART FUNCTION TESTS

Cardiopulmonary function and autologous bone marrow transplantation: results and predictive value for respiratory failure and mortality. The University of Nebraska Medical Center Bone Marrow Transplantation Pulmonary Study Group. Jain B, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):561–8

The independent medical examination: cardiology assessment [see comments] Cumming GR. **Can J Cardiol** 1996 Dec; 12(12):1245–52. Comment in: Can J Cardiol 1997 May;13(5):443. Comment in: Can J Cardiol 1997 May;13(5):443; discussion 443, 445.

Validation of an echocardiographic assessment of cardiac function following moderate size myocardial infarction in the rat. Burrell LM, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):570–2

Clinical methods to determine coronary flow and myocardial perfusion. Wolters-Geldof MJ, et al. **Int J Card Imaging** 1997 Apr;13(2):79–94; discussion 95–7

Can we predict future acute coronary events in patients with stable coronary artery disease? [editorial; comment] Ambrose JA, et al. **JAMA** 1997 Jan 22–29;277(4):343–4. Comment on: JAMA 1997 Jan 22–29;277(4):318–24.

Ischemia during ambulatory monitoring as a prognostic indicator in patients with stable coronary artery disease [see comments] Mulcahy D, et al. **JAMA** 1997 Jan 22–29; 277(4):318–24. Comment in: JAMA 1997 Jan 22–29;277(4):343–4. Comment in: JAMA 1997 Jun 11;277(22):1760–1.

Biopotential amplifier for simultaneous operation with biomagnetic instruments. Virtanen J, et al. **Med Biol Eng Comput** 1997 Jul;35(4):402–8

Cardiac screening tests prior to lower extremity revascularization: routine versus selective application. Kresowik TF, et al. **Semin Vasc Surg** 1997 Mar;10(1):55–60

[Preoperative evaluation of the patient with coronary disease (editorial)] Evéquoz D, et al. **Schweiz Rundsch Med Prax** 1996 Oct 15;85(42):1309–10 **(Fre)**

[Assessment of cardiac insufficiency] Righetti A. **Schweiz Rundsch Med Prax** 1997 Feb 11;86(7):251–3 (Eng. Abstr.) **(Fre)**

[Syncope in elderly patients--which studies are sensible?] Cottier C. **Schweiz Rundsch Med Prax** 1996 Nov 12; 85(46):1482–9 (Eng. Abstr.) **(Ger)**

[Cardiopulmonary stress test for the evaluation of therapeutic results in heart failure. Maximal or submaximal test?] Dei Cas L, et al. **Cardiologia** 1996 Aug;41(8):727–38 (94 ref.) **(Ita)**

[Assessment of cardiac functions in patients for coronary artery bypass graft using transesophageal echocardiography before and after cardiopulmonary bypass] Kadoi Y, et al. **Masui** 1996 Jun;45(6):676–80 (Eng. Abstr.) **(Jpn)**

[Evaluation of cardiac function by transesophageal echocardiography] Nakayama K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:607–9 (11 ref.) **(Jpn)**

[Heart disease in acromegaly. Study of 27 patients] Marín F, et al. **Med Clin (Barc)** 1996 Sep 21;107(9):326–30 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Cardiac and glycemic benefits of troglitazone treatment in NIDDM. The Troglitazone Study Group. Ghazzi MN, et al. **Diabetes** 1997 Mar;46(3):433–9

The effect of Losartan, an angiotensin II antagonist, on cardiac function, mass and morphology in rats after repeated hyperbaric exposures. Stuhr LE, et al. **Scand J Clin Lab Invest** 1997 May;57(3):253–61

INSTRUMENTATION

Validation study of a new transit time ultrasonic flow probe for continuous great vessel measurements. Dean DA, et al. **ASAIO J** 1996 Sep-Oct;42(5):M671–6

METHODS

Hyperventilation as a specific test for diagnosis of coronary artery spasm. Nakao K, et al. **Am J Cardiol** 1997 Sep 1; 80(5):545–9

Validation of right and left ventricular conductance and echocardiography for cardiac function studies. Amirhamzeh MM, et al. **Ann Thorac Surg** 1996 Oct; 62(4):1104–9

Validation of a novel ultrasound dilution method to measure cardiac output during hemodialysis. Kisloukhine VV, et al. **ASAIO J** 1996 Sep-Oct;42(5):M906–7

Validation of a new method to measure cardiac output during extracorporeal detoxification. Nikiforov YV, et al. **ASAIO J** 1996 Sep-Oct;42(5):M903–5

New imaging techniques for assessing cardiac function. Johnson LL, et al. **Crit Care Clin** 1996 Oct;12(4):919–37 (24 ref.)

A new method of assessing cardiac autonomic function and its comparison with spectral analysis and coefficient of variation of R-R interval. Toichi M, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):79–84

[Invasive evaluation of heart function of patients with heart failure and its clinical significance] Sata M, et al. **Nippon Naika Gakkai Zasshi** 1994 Jan 10;83(1):42–7 (4 ref.) **(Jpn)**

[Overdrive suppression test] Fukushima K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:685–7 (11 ref.) **(Jpn)**

[Magnetocardiogram] Nomura M, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:569–74 (20 ref.) **(Jpn)**

[Mechanocardiogram] Sawayama T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:575–80 (3 ref.) **(Jpn)**

[Measurement of sinus node recovery time (SNRT) and sinoatrial conduction time (SACT)] Tani M, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:680–4 (8 ref.) **(Jpn)**

[Recent development of non-invasive examination in cardiovascular diseases] Tanigawa N, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:40–4 (5 ref.) **(Jpn)**

STATISTICS & NUMERICAL DATA

Data-dependent interval partition of naturally ordered individuals by complete cluster analysis in epidemiological and cardiac data processing. Langer SF. **Stat Med** 1997 Jul 30;16(14):1617–28

[Cardiopulmonary normal values in geriatrics] Gassmann KG, et al. **Z Gerontol Geriatr** 1997 May-Jun;30(3):193–9 (55 ref.) (Eng. Abstr.) **(Ger)**

UTILIZATION

Concerning Dr. Waters' and Dr. Kiernan's "The abuse of cardiovascular procedures" [letter; comment] Seltzer J. **Conn Med** 1997 Jul;61(7):443–4. Comment on: Conn Med 1997 May;61(5):259–62.

The abuse of cardiovascular procedures [see comments] Waters D, et al. **Conn Med** 1997 May;61(5):259–62 (24 ref.) . Comment in: Conn Med 1997 Jul;61(7):443–4.

HEART HYPERTROPHY

Hypertension without cardiac hypertrophy does not induce a cardiac baroreflex deficit. Banting JD, et al. **J Hypertens** 1996 Oct;14(10):1209–14

Cyclic AMP-dependent protein kinase and mechanical heart function in ventricular hypertrophy induced by pressure overload or secondary to myocardial infarction. Piddo AM, et al. **J Mol Cell Cardiol** 1996 May;28(5):1073–83

Endothelins and cardiac hypertrophy. Ito H. **Life Sci** 1997; 61(6):585–93 (65 ref.)

[Cardiac hypertrophy, ventricular hypertrophy (left ventricular hypertrophy, right ventricular hypertrophy, combined ventricular hypertrophy)] Nakano F, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):153–7 (8 ref.) **(Jpn)**

[Idiopathic enlargement of the right atrium] Okeie K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):582–7 (26 ref.) **(Jpn)**

BLOOD

[Erythrocyte rheology and heart hypertrophy in diabetes mellitus] Valensi P, et al. **J Mal Vasc** 1996;21(3):185–7 (Eng. Abstr.) **(Fre)**

CHEMICALLY INDUCED

Prostaglandin F2 alpha induces cardiac myocyte hypertrophy in vitro and cardiac growth in vivo. Lai J, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2197–208

Transient outward current in catecholamine-induced cardiac hypertrophy in the rat. Mészáros J, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2360–7

High glucose stimulates aldosterone-induced hypertrophy via type I mineralocorticoid receptors in neonatal rat cardiomyocytes. Sato A, et al. **Endocrinology** 1996 Oct; 137(10):4145–53

Multiple linear regression analysis of blood pressure, hypertrophy, calcium and cadmium in hypertensive and non-hypertensive states. Tomera JF, et al. **Food Chem Toxicol** 1997 Jul;35(7):713–8

Role of type 1 and type 2 angiotensin receptors in angiotensin II-induced cardiomyocyte hypertrophy. Booz GW, et al. **Hypertension** 1996 Oct;28(4):635–40

Involvement of endothelin (ET)A and ETB receptors in the hypertrophic effects of ET-1 in rabbit ventricular cardiomyocytes. Mullan DM, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):350–9

Hypertrophic responsiveness to beta 2-adrenoceptor stimulation on adult ventricular cardiomyocytes. Zhou XJ, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:211–6

Leukemia inhibitory factor induces a hypertrophic response mediated by gp130 in murine cardiac myocytes. Matsui H, et al. **Res Commun Mol Pathol Pharmacol** 1996 Aug; 93(2):149–62

COMPLICATIONS

Prognostic role of cardiovascular risk factors for men with cardiomegaly (the Reykjavik Study). Sigurdsson E, et al. **Am J Cardiol** 1996 Dec 15;78(12):1355–61

Ischaemic preconditioning protects against myocardial dysfunction caused by ischaemia in isolated hypertrophied rat hearts. Pantos CI, et al. **Basic Res Cardiol** 1996 Nov–Dec;91(6):444–9

Radiofrequency catheter ablation of supraventricular tachycardias in patients with hypertrophic cardiomyopathy. Kinoshita O, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):527–30

Possible mechanisms of mitral regurgitation in dilated hearts: a study using transesophageal echocardiography. Oki T, et al. **Clin Cardiol** 1996 Aug;19(8):639–43

Cardiovascular hypertrophy does not predispose to genetic hypertension. Harrap SB, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):531–41

Ischemia and reperfusion injury in the hypertrophied heart. Allard MF, et al. **EXS** 1996;76:423–41 (78 ref.)

Changes in beta-adrenoceptors and G-proteins during the transition from cardiac hypertrophy to heart failure. Flesch M, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S35–43 (64 ref.)

Acute myocarditis with eosinophilia presenting as asymmetric septal hypertrophy during pregnancy. Sagesaka T, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):147–51

Beneficial effect of synthetic human atrial natriuretic polypeptide on renal function in a patient with giant atria. Nishimura K, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):793–5

Ischaemic preconditioning does not protect hypertrophied myocardium against ischaemia. Moolman JA, et al. **S Afr Med J** 1997 Jun;87 Suppl 3:C151–6

[Ventricular tachycardia in a patient with mid-ventricular hypertrophic myocardiopathy and apical aneurysm] López-Mínguez JR, et al. **Rev Esp Cardiol** 1997 Aug; 50(8):593–6 (Eng. Abstr.) **(Spa)**

CONGENITAL

Congenital hypertrichosis, osteochondrodysplasia, and cardiomegaly: further delineation of a new genetic syndrome. Garcia-Cruz D, et al. **Am J Med Genet** 1997 Mar 17;69(2):138–51

Congenital hypertrichosis, cardiomegaly and mild osteochondrodysplasia. Nevin NC, et al. **Am J Med Genet** 1996 Dec 2;66(1):33–8

Cardiac and extracardiac complications in infants of diabetic mothers and their relation to parameters of carbohydrate metabolism. Oberhoffer R, et al. **Eur J Pediatr** 1997 Apr; 156(4):262–5

DIAGNOSIS

P mitrale-P pulmonale variation [letter] Malcolm I. **Am Heart J** 1996 Dec;132(6):1322

Mediastinal lipoma mimicking dextrocardia and cardiac enlargement: diagnosis by magnetic resonance imaging. Reddy SC, et al. **Am Heart J** 1996 Oct;132(4):894–7

Diagnostic value of electrocardiography and echocardiography for familial hypertrophic cardiomyopathy in a genotyped adult population. Charron P, et al. **Circulation** 1997 Jul 1;96(1):214–9

Lipomatous hypertrophy of the atrial septum: complementary diagnosis by transoesophageal echocardiography and nuclear magnetic resonance imaging [letter] Muñoz J, et al. **Eur Heart J** 1996 Aug;17(8):1290–1

Whether configuration of P wave really suggests atrial hypertrophy! [letter] Mittal SR, et al. **Indian Heart J** 1996 Jul–Aug;48(4):428

Spectrum of clinical and cardiac dysfunction in bronchopulmonary dysplasia: early prediction of long-term morbidity. Shekhawat PS, et al. **J Perinatol** 1997 Mar–Apr; 17(2):95–100

[Hypertensive cardiac damage in heart transplantation. A noninvasive monitoring study of arterial pressure] Cugini P, et al. **Recenti Prog Med** 1996 Oct;87(10):460–5 (Eng. Abstr.) **(Ita)**

[Clinical evaluation of 123I-BMIPP myocardial SPECT in patients with hypertensive heart disease and hypertrophic cardiomyopathy: comparison with the findings of 201Tl SPECT and Gd enhanced magnetic resonance imaging] Miyanaga H, et al. **Kaku Igaku** 1997 Feb;34(2):85–93 (Eng. Abstr.) **(Jpn)**

[The syndrome of mid-ventricular obstruction with apical aneurysm in hypertrophic myocardiopathy: presentation of a case] González Torrecilla E, et al. **Rev Esp Cardiol** 1997 Aug;50(8):586–9 (Eng. Abstr.) **(Spa)**

[A case report. An unusually enlarged heart turns out to be caused not by heart failure, but a cyst] Hedman A, et al. **Lakartidningen** 1997 Jun 25;94(26–27):2478–80 **(Swe)**

DRUG THERAPY

Angiotensin II type 1 receptor induced signal-transduction pathways as new targets for pharmacological treatment of the renin-angiotensin system. Schorb W, et al. **Basic Res Cardiol** 1996;91 Suppl 2:91–6 (35 ref.)

Action of the calcium channel blocker lacidipine on cardiac hypertrophy and endothelin-1 gene expression in stroke-prone hypertensive rats. Feron O, et al. **Br J Pharmacol** 1996 Jun;118(3):659–64

Effect on prolonged inhibition of neutral endopeptidase on cardiac hypertrophy in rats with myocardial infarction. Marie C, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):593–8

Effects of enalapril in rats with pressure overload cardiac hypertrophy. Di Paola Eugenio D, et al. **Gen Pharmacol** 1997 Apr;28(4):531–3

Long-term inhibition of the renin-angiotensin system in genetic hypertension: analysis of the impact on blood pressure and cardiovascular structural changes. Lundie MJ, et al. **J Hypertens** 1997 Apr;15(4):339–48 (104 ref.)

Molecular effects of M17055, furosemide and thiazide on cardiac hypertrophy of spontaneously hypertensive rats. Kim S, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):983–90

Reduction of cardiac hypertrophy in TGR(mREN2)27 by angiotensin II receptor blockade. Böhm M, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:217–21

[Antihypertensive effects of long-term treatment with AE0047, a novel long-lasting calcium antagonist, in hypertensive models of rats and dogs] Kido H, et al. **Nippon Yakurigaku Zasshi** 1997 Jun;109(6):291–301 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Alterations in mitochondrial DNA and enzyme activities in hypertrophied myocardium of stroke-prone SHRS. Tokoro T, et al. **Clin Exp Hypertens** 1996 Jul;18(5):595–606

Expression of sarcoplasmic reticulum Ca2+ -ATPase mRNA in the hypertrophied heart of young spontaneously hypertensive rats. Ohta K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S228–9

Modification of sarcoplasmic reticulum gene expression in pressure overload cardiac hypertrophy by etomoxir. Zarain-Herzberg A, et al. **FASEB J** 1996 Sep;10(11):1303–9

Mechanism of beta-adrenergic receptor desensitization in cardiac hypertrophy is increased beta-adrenergic receptor kinase. Choi DJ, et al. **J Biol Chem** 1997 Jul 4; 272(27):17223–9

Reduced concentration of myocardial Na+,K(+)-ATPase in human aortic valve disease as well as of Na+,K(+)- and Ca(2+)-ATPase in rodents with hypertrophy. Larsen JS, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):85–93

Research on some metabolic and enzymatic modifications in experimental hypertensive myocardium. Balta N, et al. **Rom J Physiol** 1995 Jan–Dec;32(1–4):45–58

Influence of isoproterenol-induced cardiac hypertrophy on oxydative myocardial stress. Baltă N, et al. **Rom J Physiol** 1995 Jan–Dec;32(1–4):149–54

EPIDEMIOLOGY

Cardiac and extracardiac complications in infants of diabetic mothers and their relation to parameters of carbohydrate metabolism. Oberhoffer R, et al. **Eur J Pediatr** 1997 Apr; 156(4):262–5

ETIOLOGY

Obese hypertensive rabbits develop concentric and eccentric hypertrophy and diastolic filling abnormalities. Carroll JF, et al. **Am J Hypertens** 1997 Feb;10(2):230–3

Volume-overload cardiac hypertrophy is unaffected by ACE inhibitor treatment in dogs. Dell'Italia LJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H961–70

Effects of pressure- or volume-overload hypertrophy on passive stiffness in isolated adult cardiac muscle cells. Kato S, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2575–83

Role of the renin-angiotensin system in cardiac hypertrophy induced in rats by hyperthyroidism. Kobori H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H593–9

Mechanisms contributing to pulsus alternans in pressure-overload cardiac hypertrophy. Kotsanas G, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2490–500

ACE inhibitors and cardiac ACE mRNA in volume overload-induced cardiac hypertrophy. Lear W, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H641–6

Chronic fetal placental embolization and hypoxemia cause hypertension and myocardial hypertrophy in fetal sheep. Murotsuki J, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R201–7

Cardiac hypertrophy and telemetered blood pressure 6 wk after baroreceptor denervation in normotensive rats. Van Vliet BN, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1759–69

Alcohol intake and cardiac hypertrophy in hypertensive patients [letter] Ishimitsu T. **Ann Intern Med** 1997 Apr 15; 126(8):666

The cellular and molecular response of cardiac myocytes to mechanical stress. Sadoshima J, et al. **Annu Rev Physiol** 1997;59:551–71 (71 ref.)

Chronic nitric oxide inhibition as a model of hypertensive heart muscle disease. Moreno H Jr, et al. **Basic Res Cardiol** 1996 May–Jun;91(3):248–55

Respective role of humoral factors and blood pressure in cardiac remodeling of DOCA hypertensive rats. Karam H, et al. **Cardiovasc Res** 1996 Feb;31(2):287–95

Stretching the evidence in the case of cardiac growth [see comments] Yamazaki T, et al. **Cardiovasc Res** 1996 Apr; 31(4):493–8 (45 ref.). Comment in: Cardiovasc Res 1996 Apr;31(4):492.

Equipotent antihypertensive agents variously affect pulsatile hemodynamics and regression of cardiac hypertrophy in spontaneously hypertensive rats. Mitchell GF, et al. **Circulation** 1996 Dec 1;94(11):2923–9

On variations in the cardiac hypertrophic response to pressure overload [editorial; comment] Ross J Jr. **Circulation** 1997 Mar 18;95(6):1349–51. Comment on: Circulation 1997 Mar 18;95(6):1601–10.

Mechanism of left atrial enlargement related to ventricular diastolic impairment in hypertension. Matsuda M, et al. **Clin Cardiol** 1996 Dec;19(12):954–9

The relationship of blood pressure to cardiac hypertrophy: experimental studies in rats. Morgan T, et al. **Clin Exp Hypertens** 1997 Jul–Aug;19(5–6):827–41

Cytokines and cardiac hypertrophy: roles of angiotensin II and basic fibroblast growth factor. Kaye DM, et al. **Clin Exp Pharmacol Physiol Suppl** 1996;3:S136–41 (71 ref.)

Angiotensin II mediates mechanical stress-induced cardiac hypertrophy. Yamazaki T, et al. **Diabetes Res Clin Pract** 1996 Feb;30 Suppl:107–11

Stretch-induced hypertrophic growth of cardiocytes and processing of brain-type natriuretic peptide are controlled by proprotein-processing endoprotease furin. Sawada Y, et al. **J Biol Chem** 1997 Aug 15;272(33):20545–54

Hypertensive cardiomegaly caused by an aldosterone-secreting adenoma in a newborn. Pozzan GB, et al. **J Endocrinol Invest** 1997 Feb;20(2):86–9

Importance of leaflet elongation in causing systolic anterior motion of the mitral valve. He S, et al. **J Heart Valve Dis** 1997 Mar;6(2):149–59

Is CD36 deficiency an etiology of hereditary hypertrophic cardiomyopathy? Tanaka T, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):121–7

Severe hypertension and cardiac failure associated with neuroblastoma: a case report. Sendo D, et al. **J Pediatr Surg** 1996 Dec;31(12):1688–90

The role of guanine nucleotide binding proteins in hamsters with myocardial hypertrophy. Nakamura K, et al. **J Recept Signal Transduct Res** 1996 May–Jul; 16(3–4):225–42

[The cardiac autocrine-paracrine system in the development of hypertrophy] Neri Serneri GG, et al. **Cardiologia** 1997 Jan;42(1):11–9 (100 ref.) **(Ita)**

[Heart hypertrophy. Determinant factors and molecular mechanisms] Batlouni M. **Arq Bras Cardiol** 1995 Dec; 65(6):533–9 **(Por)**

[Basic concepts on the genesis and significance of myocardial hypertrophy] Vallejo Venegas E, et al. **Arch Inst Cardiol Mex** 1996 Jul–Aug;66(4):360–9 (57 ref.) **(Spa)**

GENETICS

Genetic markers of ventricular hypertrophy. Hauser RG. **Am J Cardiol** 1997 Mar 20;79(6A):12–5

Basic determinants of myocardial hypertrophy: a review of molecular mechanisms. Copper G 4th. **Annu Rev Med** 1997; 48:13–23 (53 ref.)

Adaptive and genetic alterations of the renin angiotensin system in cardiac hypertrophy and failure. Holmer SR, et al. **Basic Res Cardiol** 1996;91 Suppl 2:65–71 (53 ref.)

Hypertensive cardiac hypertrophy—is genetic variance the missing link? Nunez DJ, et al. **Br J Clin Pharmacol** 1996 Jul;42(1):107–17 (128 ref.)

Regulation of fibrillar collagen gene expression and protein accumulation in volume-overloaded cardiac hypertrophy. Namba T, et al. **Circulation** 1997 May 20;95(10):2448–54

Alterations in mitochondrial DNA and enzyme activities in hypertrophied myocardium of stroke-prone SHRS. Tokoro T, et al. **Clin Exp Hypertens** 1996 Jul;18(5):595–606

Analysis of linkage of the ACE locus with measures of cardiac hypertrophy in the spontaneously hypertensive rat. Zhang L, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):597–9

A new case of oculocerebral hypopigmentation syndrome (Cross syndrome) with additional findings. Tezcan I, et al. **Clin Genet** 1997 Feb;51(2):118–21 (13 ref.)

A novel gene suppressed in the ventricle of carnitine-deficient juvenile visceral steatosis mice. Masuda M, et al. **FEBS Lett** 1997 May 19;408(2):221–4

A genetic based model of cardiac hypertrophy in MLC-ras mice. Gottshall KR, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S28–34 (31 ref.)

Identification of a cis-acting regulatory element conferring inducibility of the atrial natriuretic factor gene in acute pressure overload. Harsdorf R, et al. **J Clin Invest** 1997 Sep 1;100(5):1294–304

[Molecular biology and cardiology. Molecular mechanisms in heart failure] Sheikh SP, et al. **Ugeskr Laeger** 1997 Apr 21;159(17):2523–8 (20 ref.) **(Dan)**

HEART HYPERTROPHY

METABOLISM

Increased cardiac ppENK mRNA in cardiac hypertrophy and effects on blood pressure of its peptide products. Hao JM, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2885–94

ACE inhibitors and cardiac ACE mRNA in volume overload–induced cardiac hypertrophy. Lear W, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H641–6

Recovery of glycolysis and oxidative metabolism during postischemic reperfusion of hypertrophied rat hearts. Schönekess BO, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H798–805

Attenuation of heat shock protein expression by coronary occlusion in hypertrophied hearts. Tajima M, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H526–33

Role of G-proteins in altered beta-adrenergic responsiveness in the failing and hypertrophied myocardium. Böhm M, et al. **Basic Res Cardiol** 1996;91 Suppl 2:47–51 (30 ref.)

Negative metabolic effects of cyclic GMP are altered in renal hypertension induced cardiac hypertrophy. Rabindranauth P, et al. **Basic Res Cardiol** 1997 Feb;92(1):8–16

Expression and function of the cardiac Na+/Ca2+ exchanger in postnatal development of the rat, in experimental-induced cardiac hypertrophy and in the failing human heart. Studer R, et al. **Basic Res Cardiol** 1997; 92 Suppl 1:53–8 (34 ref.)

Insulin-like growth factor-1 and myocyte growth: the danger of a dogma part II. Induced myocardial growth: pathologic hypertrophy [see comments] Anversa P, et al. **Cardiovasc Res** 1996 Sep;32(3):484–95 (109 ref.). Comment in: Cardiovasc Res 1996 Sep;32(3):482–3.

cAMP-mediated c-fos expression in pressure-overloaded acceleration of protein synthesis in adult rat heart. Osaki J, et al. **Cardiovasc Res** 1997 Mar;33(3):631–40

Expression of the cardiac ryanodine receptor in the compensated phase of hypertrophy in rat heart. Rannou F, et al. **Cardiovasc Res** 1996 Aug;32(2):258–65

Energy metabolism patterns in mammalian myocardium adapted to chronic physiopathological conditions. Rossi A, et al. **Cardiovasc Res** 1996 Jan;31(1):163–71 (90 ref.)

Glycogen metabolism in the aerobic hypertrophied rat heart. Allard MF, et al. **Circulation** 1997 Jul 15;96(2):676–82

Regulation of fibrillar collagen gene expression and protein accumulation in volume-overloaded cardiac hypertrophy. Namba T, et al. **Circulation** 1997 May 20;95(10):2448–54

Down-regulation of angiotensin II receptors in hypertrophied human myocardium. Nozawa Y, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6–7):514–8

Molecular mechanisms of vascular hypertrophy in the spontaneously hypertensive rat. Marche P, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S114–6 (23 ref.)

Gene regulation of brain natriuretic peptide in cardiocyte hypertrophy by alpha1-adrenergic stimulation. Nakagawa O, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S183–5

Gene expression of prostacyclin receptor in the hypertrophied heart of spontaneously hypertensive rats. Nakagawa O, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S270–2

Trypsin alters ATP sensitivity of KATP channels in control and hypertrophied myocytes. Sodder VH, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):115–8

L-type calcium current in catecholamine-induced cardiac hypertrophy in the rat. Mészáros J, et al. **Exp Physiol** 1997 Jan;82(1):71–83

Ischemia and reperfusion injury in the hypertrophied heart. Allard MF, et al. **EXS** 1996;76:423–41 (78 ref.)

Reduced muscarinic cholinoceptor density and sensitivity in various models of experimental cardiac hypertrophy. Mertens MJ, et al. **J Auton Pharmacol** 1995 Dec; 15(6):465–74

Association of tyrosine-phosphorylated c-Src with the cytoskeleton of hypertrophying myocardium. Kuppuswamy D, et al. **J Biol Chem** 1997 Feb 14; 272(7):4500–8

The MEKK-JNK pathway is stimulated by alpha1-adrenergic receptor and ras activation and is associated with in vitro and in vivo cardiac hypertrophy. Ramirez MT, et al. **J Biol Chem** 1997 May 30; 272(22):14057–61

Changes in beta-adrenoceptors and G-proteins during the transition from cardiac hypertrophy to heart failure. Flesch M, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S35–43 (64 ref.)

Altered signal transduction system in hypertrophied myocardium: angiotensin II stimulates collagen synthesis in hypertrophied hearts. Kawaguchi H, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S13–9

Gene expression of the Na-Ca exchanger in cardiac hypertrophy. Menick DR, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S69–76 (40 ref.)

Endothelin and angiotensin II stimulation of Na+-H+ exchange is impaired in cardiac hypertrophy. Ito N, et al. **J Clin Invest** 1997 Jan 1;99(1):125–35

Sarcoplasmic reticulum genes are upregulated in mild cardiac hypertrophy but downregulated in severe cardiac hypertrophy induced by pressure overload. Arai M, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1583–90

Localization of alpha1(I) collagen mRNA in myocardium from the spontaneously hypertensive rat during the transition from compensated hypertrophy to failure. Bing OH, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2335–44

Energy metabolism in normal and hypertrophied right ventricle of the ferret heart. Do E, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1903–13

Cross-talk between receptor-mediated phospholipase C-beta and D via protein kinase C as intracellular signal possibly leading to hypertrophy in serum-free cultured cardiomyocytes. Eskildsen-Helmond YE, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2545–59

A novel A/T-rich element mediates ANF gene expression during cardiac myocyte hypertrophy. Harris AN, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):515–25

Altered expression of atrial natriuretic peptide and contractile protein genes in hypertrophied ventricle of JVS mice with systemic carnitine deficiency. Yoshimine K, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):571–8

Calcium channels and cation transport ATPases in cardiac hypertrophy induced by aortic constriction in newborn rats. Zheng L, et al. **Mol Cell Biochem** 1996 Oct-Nov; 163–164:23–9

A role for Sp and nuclear receptor transcription factors in a cardiac hypertrophic growth program. Sack MN, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6438–43

PATHOLOGY

Hypertrophic Z-line observed in aged one-humped camel (Camelus dromedarius). Karkoura A, et al. **Acta Anat (Basel)** 1995;153(3):220–5

Cardiac rod body: hypertrophic Z-line in an aged pony. Tangkawattana P, et al. **Acta Anat (Basel)** 1996; 155(4):266–73

Clinical and morphologic features of lipomatous hypertrophy ("massive fatty deposits") of the interatrial septum [see comments] Gay JD, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):43–8. Comment in: Am J Forensic Med Pathol 1997 Mar;18(1):107–8.

Volume-overload cardiac hypertrophy is unaffected by ACE inhibitor treatment in dogs. Dell'Italia LJ, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H961–70

Hyperplasia and hypertrophy of chicken cardiac myocytes during posthatching development. Li F, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R518–26

Captopril prevents vascular and fibrotic changes but not cardiac hypertrophy in aortic-banded rats. Regan CP, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H906–13

Insulin-like growth factor-1 and myocyte growth: the danger of a dogma part II. Induced myocardial growth: pathologic hypertrophy [see comments] Anversa P, et al. **Cardiovasc Res** 1996 Sep;32(3):484–95 (109 ref.). Comment in: Cardiovasc Res 1996 Sep;32(3):482–3.

Compensated cardiac hypertrophy: arrhythmogenicity and the new myocardial phenotype. I. Fibrosis. Assayag P, et al. **Cardiovasc Res** 1997 Jun;34(3):439–44 (29 ref.)

Trophic or non-trophic? That is the question [comment] Weber KT. **Cardiovasc Res** 1996 Sep;32(3):482–3. Comment on: Cardiovasc Res 1996 Sep;32(3):484–95.

Cytoskeletal mechanics in pressure-overload cardiac hypertrophy [see comments] Tagawa H, et al. **Circ Res** 1997 Feb;80(2):281–9. Comment in: Circ Res 1997 Feb;80(2):295–6.

Microtubules and pressure-overload hypertrophy [editorial; comment] Walsh RA. **Circ Res** 1997 Feb;80(2):295–6. Comment on: Circ Res 1997 Feb;80(2):281–90. Comment on: Circ Res 1997 Feb;80(2):290–4.

Effect of hypertension and cardiac hypertrophy on coronary artery morphology in sudden cardiac death. Burke AP, et al. **Circulation** 1996 Dec 15;94(12):3138–45

Long-term angiotensin-converting enzyme inhibition with fosinopril improves depressed responsiveness to Ca2+ in myocytes from aortic-banded rats. Kagaya Y, et al. **Circulation** 1996 Dec 1;94(11):2915–22

Equipotent antihypertensive agents variously affect pulsatile hemodynamics and regression of cardiac hypertrophy in spontaneously hypertensive rats. Mitchell GF, et al. **Circulation** 1996 Dec 1;94(11):2923–9

Mitochondrial abnormalities in hypertrophied myocardium of stroke-prone spontaneously hypertensive rats. Tokoro T, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S268–9

Myocyte death in heart failure. Anversa P, et al. **Curr Opin Cardiol** 1996 May;11(3):245–51 (55 ref.)

Mechanisms and management of heart failure due to diastolic dysfunction. Ruzumna P, et al. **Curr Opin Cardiol** 1996 May;11(3):269–75 (54 ref.)

Coronary atherosclerosis and myocardial hypertrophy in relation to body fat distribution in healthy women: an autopsy study on 33 violent deaths. Kortelainen ML, et al. **Int J Obes Relat Metab Disord** 1997 Jan;21(1):43–9

Remodeling after myocardial infarction in humans is not associated with interstitial fibrosis of noninfarcted myocardium. Marijianowski MM, et al. **J Am Coll Cardiol** 1997 Jul;30(1):76–82

A reliable, efficient, and comprehensive approach to assess myocyte remodeling in cardiac hypertrophy and failure. Gerdes AM. **J Card Fail** 1997 Mar;3(1):63–8

Cellular basis of contractile derangements of hypertrophied feline ventricular myocytes. Bailey BA, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1823–35

Rapid transition of cardiac myocytes from hyperplasia to hypertrophy during postnatal development. Li F, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1737–46

Transmural changes in stress-free myocyte morphology during pressure overload hypertrophy in the rat. Omens JH, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1975–83

Transplantation-induced atrophy of normal and hypertrophic rat hearts: effect on cardiac myocytes and capillaries. Rakusan K, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):1045–54

Chronic low-dose treatment with enalapril induced cardiac regression of left ventricular hypertrophy. Makino N, et al. **Mol Cell Biochem** 1996 Oct-Nov;163–164:239–45

Atria and ventricles of copper-deficient rats exhibit similar hypertrophy and similar altered biochemical characteristics. Lear PM, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):377–85

Effect of a dominant negative ras on myocardial hypertrophy by using adenoviral-mediated gene transfer. Pracyk JB, et al. **Surgery** 1997 Aug;122(2):404–10; discussion 410–1

[Myocardial capillary changes and formation of the "wear complex of the hypertrophic heart] Frolov VA, et al. **Patol Fiziol Eksp Ter** 1996 Jul-Sep;(3):3–5 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Changes in the genetic expression of membrane proteins as a determinant of myocardial dysfunction. Swynghedauw B. **Acta Cardiol** 1996;51(4):301–14

Relation between left ventricular remodeling and nocturnal blood pressure in the elderly with systemic hypertension. Aono T, et al. **Am J Cardiol** 1997 Jul 1;80(1):81–4

The kallikrein-kinin system in post-myocardial infarction cardiac remodeling. Wollert KC, et al. **Am J Cardiol** 1997 Aug 4;80(3A):158A–161A (45 ref.)

Obese hypertensive rabbits develop concentric and eccentric hypertrophy and diastolic filling abnormalities. Carroll JF, et al. **Am J Hypertens** 1997 Feb;10(2):230–3

Control of oxidative metabolism in volume-overloaded rat hearts: effect of propionyl-L-carnitine. El Alaoui-Talibi Z, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1615–24

Heat stress protects aged hypertrophied and nonhypertrophied rat hearts against ischemic damage. Cornelussen RN, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1333–41

Mechanical regulation of myocardial growth during volume-overload hypertrophy in the rat. Emery JL, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1198–204

Comparative cardioprotective effects of cromakalim and diltiazem in ischemic hypertrophied rat hearts. Grover GJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H174–82

Humoral factor(s) mediated by pressure overload enhance cardiac hypertrophy and natriuretic peptide expression. Iso T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H113–8

Effects of pressure- or volume-overload hypertrophy on passive stiffness in isolated adult cardiac muscle cells. Kato S, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2575–83

Role of the renin-angiotensin system in cardiac hypertrophy induced in rats by hyperthyroidism. Kobori H, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H593–9

Mechanisms contributing to pulsus alternans in pressure-overload cardiac hypertrophy. Kotsanas G, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2490–500

Transient outward current in catecholamine-induced cardiac hypertrophy in the rat. Mészáros J, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2360–7

1,25-Dihydroxyvitamin D3 regulation of cardiac myocyte proliferation and hypertrophy. O'Connell TD, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1751–8

Macromolecular transport in the arterial intima: comparison of chronic and acute injuries. Penn MS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1560–70

Pressure-independent effects of AT1-receptor antagonism on cardiovascular remodeling in aortic-banded rats. Regan CP, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2131–8

Cardiac hypertrophy and telemetered blood pressure 6 wk after baroreceptor denervation in normotensive rats. Van Vliet BN, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1759–69

The renin-angiotensin-aldosterone system in experimental mineralocorticoid-salt-induced cardiac fibrosis. Young MJ, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):E883–8

Complete stunning in hypertrophied guinea pig heart. Defects in sarcolemmal calcium influx. Dhalla AK, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:142–55

Extent and composition of coronary lesions and degree of cardiac hypertrophy in relation to abdominal fatness in men under 40 years of age. Kortelainen ML, et al. **Arterioscler Thromb Vasc Biol** 1997 Mar;17(3):574–9

Calcium-dependent electrophysiological alterations in hypertrophied rat cardiomyocytes. Ruocco C, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):425–9

The role of the renin-angiotensin system in the pathophysiology of cardiac remodeling. Booz GW, et al. **Blood Press Suppl** 1996;2:10–8 (67 ref.)

Cardioelectrical field in experimental cardiomegaly in rats. Bernadič M, et al. **Bratisl Lek Listy** 1996 Sep;97(9):543–9

Dietary sodium intake and cardiac nerve cell hypertrophy in Wistar rats. Gama EF, et al. **Braz J Med Biol Res** 1996 Mar;29(3):363–5

Effects of the nitric oxide donor sodium nitroprusside on intracellular pH and contraction in hypertrophied myocytes. Ito N, et al. **Circulation** 1997 May 6; 95(9):2303–11

Relationships between myocardial bioenergetic and left ventricular function in hearts with volume-overload hypertrophy. Zhang J, et al. **Circulation** 1997 Jul 1; 96(1):334–43

The relationship of blood pressure to cardiac hypertrophy: experimental studies in rats. Morgan T, et al. **Clin Exp Hypertens** 1997 Jul-Aug;19(5–6):827–41

Cardiac hypertrophy in diabetic spontaneously hypertensive rats: role of angiotensin II? Black MJ, et al. **Clin Exp Pharmacol Physiol** 1997 Jun;24(6):445–8

Altered signalling in vascular smooth muscle from spontaneously hypertensive rats may link medial hypertrophy, vessel hyperinnervation and elevated nerve growth factor. Tuttle JB, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S117–9

Cellular ions in NIDDM: relation of calcium to hyperglycemia and cardiac mass. Barbagallo M, et al. **Diabetes Care** 1996 Dec;19(12):1393–8

MAP kinase- and Rho-dependent signals interact to regulate gene expression but not actin morphology in cardiac muscle cells. Thorburn J, et al. **EMBO J** 1997 Apr 15; 16(8):1888–900

Renin-angiotensin system in stretch-induced hypertrophy of cultured neonatal rat heart cells. Miyata S, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):81–8

Force-frequency response in isoproterenol-induced hypertrophied rat heart. Tang L, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):349–56

The renin-angiotensin system and cardiac hypertrophy. Yamazaki T, et al. **Heart** 1996 Nov;76(3 Suppl 3):33–5 (30 ref.)

Mean electrical axis of heart in chronic severe anemia. Singh K, et al. **Indian J Med Sci** 1996 Oct;50(10):359–61

An effector-like function of Ras GTPase-activating protein predominates in cardiac muscle cells. Abdellatif M, et al. **J Biol Chem** 1997 Jan 3;272(1):525–33

The role of hypertrophy and growth factors in heart failure. Ross J Jr, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S121–8

The role of the cardiac renin-angiotensin system in load-induced cardiac hypertrophy. Sadoshima J, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S1–6 (43 ref.)

Molecular basis of the regression of cardiac hypertrophy. Swynghedauw B, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S21–7 (20 ref.)

Quinidine pharmacodynamics in normal and isoproterenol-induced hypertrophied blood-perfused working rabbit hearts. Gillis AM, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):916–26

Altered contractile function in isoproterenol-induced hypertrophied rat heart. Tang L, et al. **J Hypertens** 1996 Jun;14(6):751–7

Early changes in the functions of cardiac sarcoplasmic reticulum in volume-overloaded cardiac hypertrophy in rats. Hisamatsu Y, et al. **J Mol Cell Cardiol** 1997 Apr; 29(4):1097–109

Mild hypoxia induces hypertrophy of cultured neonatal rat cardiomyocytes: a possible endogenous endothelin-1-mediated mechanism. Ito H, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1271–7

Altered cardiac mechanism and sarcoplasmic reticulum function in pressure overload-induced cardiac hypertrophy in rats. Ohkusa T, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):45–54

Aging, cardiac hypertrophy and ischemic cardiomyopathy do not affect the proportion of mononucleated and multinucleated myocytes in the human heart. Olivetti G, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1463–77

Hemodynamic effect of progressive right atrial dilatation in atriopulmonary connections. Lardo AC, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):2–8

Age-related effects of norepinephrine on rat ventricular hypertrophy. Hamada H, et al. **Jpn Heart J** 1997 May; 38(3):433–43

Molecular aspects of mechanical stress-induced cardiac hypertrophy. Yamazaki T, et al. **Mol Cell Biochem** 1996 Oct-Nov;163–164:197–201

Local stress, not systemic factors, regulate gene expression of the cardiac renin-angiotensin system in vivo: a comprehensive study of all its components in the dog. Lee YA, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):11035–40

Defective excitation-contraction coupling in experimental cardiac hypertrophy and heart failure [see comments] Gómez AM, et al. **Science** 1997 May 2;276(5313):800–6. Comment in: Science 1997 May 2;276(5313):755–6.

Quenching the spark in the heart [comment] Yue DT. **Science** 1997 May 2;276(5313):755–6. Comment on: Science 1997 May 2;276(5313):800–6.

[Effect of the cardiac renin-angiotensin system on hypertrophy] Ertl G, et al. **Z Kardiol** 1996;85 Suppl 6:233–40 (58 ref.) (Eng. Abstr.) **(Ger)**

[Magnito-, electro- and echocardiography in detecting symptoms of the "hypertensive heart"] Nikitin IP, et al. **Klin Med (Mosk)** 1996;74(5):29–31 (Eng. Abstr.) **(Rus)**

[Effect of cilazapril, a converting enzyme inhibitor, on cardiovascular hypertrophy in the hypertensive patient] Sesin J, et al. **Medicina (B Aires)** 1996;56(1):75–84 (Eng. Abstr.) **(Spa)**

[Impact of electric cardiac stimulation on ventricular function and the natural history of patients with myocardiopathy (letter)] González Cocina E, et al. **Rev Esp Cardiol** 1997 Jan;50(1):67–9 **(Spa)**

PREVENTION & CONTROL

Angiotensin-converting enzyme inhibitors in preventing remodeling and development of heart failure after acute myocardial infarction: results of the German multicenter study of the effects of captopril on cardiopulmonary exercise parameters (ECCE). Kleber FX, et al. **Am J Cardiol** 1997 Aug 4;80(3A):162A–167A

Cardioprotective effect of enalapril in renovascular and angiotensin II hypertension. Herizi A, et al. **Clin Exp Hypertens** 1997 Jul-Aug;19(5–6):953–64

Cardiac growth during high and low dose perindopril treatment in spontaneously hypertensive rats. Black MJ, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul; 23(6–7):605–7

Prevention of cardiac hypertrophy by a sub-antihypertensive dose of the alpha 1-adrenergic antagonist bunazosin in Dahl salt-sensitive rats. Izumi Y, et al. **Hypertens Res** 1996 Sep;19(3):147–50

Angiotensin receptor 1 blockade does not prevent physiological cardiac hypertrophy in the adult rat. Geenen DL, et al. **J Appl Physiol** 1996 Aug;81(2):816–21

Captopril and norepinephrine-induced hypertrophy and haemodynamics in rats. Laycock SK, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):667–72

The time window of apoptosis: a new component in the therapeutic strategy for cardiovascular remodeling. Hamet P, et al. **J Hypertens Suppl** 1996 Dec;14(5):S65–70 (38 ref.)

RADIONUCLIDE IMAGING

Do repolarization abnormalities in hypertrophic cardiomyopathy represent impaired fatty acid utilization? An observation with QRST isointegral maps. Kawakami Y, et al. **J Electrocardiol** 1997 Jan;30(1):21–9

Alterations of myocardial sympathetic innervation in response to hypoxia. Scherrer-Crosbie M, et al. **J Nucl Med** 1997 Jun;38(6):954–7

[Myocardial sympathetic activity and characteristics in hypertrophic cardiomyopathy: comparison with hypertensive hypertrophy] Narita M, et al. **J Cardiol** 1996 Mar;27(3):133–41 (Eng. Abstr.) **(Jpn)**

SURGERY

Revision of previous Fontan connections to extracardiac or intraatrial conduit cavopulmonary anastomosis. McElhinney DB, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1276–82; discussion 1283

Lipomatous hypertrophy of the interatrial septum: indication for surgery? Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):785–7

ULTRASONOGRAPHY

Placental chorioangioma associated with fetal cardiac complication. Demiriz M, et al. **Acta Obstet Gynecol Scand** 1997 Aug;76(7):708–9

[Differentiation of hypertrophic cardiomyopathy and hypertensive cardiac hypertrophy using the patterns of interventricular septum hypertrophy] Ieki K, et al. **J Cardiol** 1996 Jun;27(6):309–14 (Eng. Abstr.) **(Jpn)**

[Echocardiographic analysis of cardiac size and function in patients with severe obstructive sleep apnea] Kober J, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 2:187–92 (Eng. Abstr.) **(Pol)**

[Arterial hypertension and the predisposing factors of left atrial dilatation. A prospective 2-dimensional echocardiographic analysis and ambulatory blood pressure monitoring] Arroja I, et al. **Rev Port Cardiol** 1997 Jan; 16(1):69–74 **(Por)**

[Magnito-, electro- and echocardiography in detecting symptoms of the "hypertensive heart"] Nikitin IP, et al. **Klin Med (Mosk)** 1996;74(5):29–31 (Eng. Abstr.) **(Rus)**

VETERINARY

Investigation of the selenium status of aborted calves with cardiac failure and myocardial necrosis. Orr JP, et al. **J Vet Diagn Invest** 1997 Apr;9(2):172–9

HEART INJURIES

Cardiac trauma. Diagnosis, management, and current therapy. Olsovsky MR, et al. **Angiology** 1997 May; 48(5):423–32 (60 ref.)

Echocardiographic findings in NATO pilots: do acceleration (+Gz) stresses damage the heart? AGARD, Neuilly-sur-Seine, France. **Aviat Space Environ Med** 1997 Jul;68(7):596–600

Blunt cardiac injury [letter; comment] [see comments] Kaups KL. **Chest** 1996 Oct;110(4):1125–6. Comment on: Chest 1995 Dec;108(6):1673–7. Comment in: Chest 1997 Aug;112(2):570–2.

More on myocardial contusion--with additional insight on myocardial concussion [letter; comment] RuDusky BM. **Chest** 1997 Aug;112(2):570–2. Comment on: Chest 1996 Oct;110(4):1125–6.

Trauma to the heart. Brown J, et al. **Chest Surg Clin N Am** 1997 May;7(2):325–41 (44 ref.)

Traumatic thoracic fistulas. Sebastian MW, et al. **Chest Surg Clin N Am** 1997 May;7(2):385–400 (33 ref.)

Missiles in the cardiovascular system. Symbas PN, et al. **Chest Surg Clin N Am** 1997 May;7(2):343–56 (28 ref.)

Blunt trauma to the heart and great vessels. Prêtre R, et al. **N Engl J Med** 1997 Feb 27;336(9):626–32 (49 ref.)

BLOOD

Cardiac troponins in the diagnosis of myocardial contusion: an emerging controversy [letter] RuDusky BM. **Chest** 1997 Sep;112(3):858–60

Minimal myocardial lesions caused by endomyocardial biopsy can be detected by a commercially available cardiac troponin-T enzyme-linked immunosorbent assay. Lang K, et al. **Eur J Clin Invest** 1996 Jun;26(6):451–3

Immunochemical extraction and automated measurement of plasma creatine kinase MB isoenzyme and creatine kinase MB2 isoform. McBride JH, et al. **J Clin Lab Anal** 1997; 11(3):163–8

CHEMICALLY INDUCED

In vivo responses of macrophages and myofibroblasts in the healing following isoproterenol-induced myocardial injury in rats. Nakatsuji S, et al. **Virchows Arch** 1997 Jan; 430(1):63–9

COMPLICATIONS

Bullet embolus from the heart to the right subclavian artery after gunshot wound to the right chest. Bilsker MS, et al. **Am Heart J** 1996 Nov;132(5):1093–4

Posttraumatic left ventricular pseudoaneurysm due to intramyocardial dissecting hematoma. Maselli D, et al. **Ann Thorac Surg** 1997 Sep;64(3):830–1

Posttraumatic aneurysm of the right atrium. von der Emde J, et al. **Ann Thorac Surg** 1996 Nov;62(5):1507–9

Traumatic heart block as a presentation of myocardial injury in two young children. Farin M, et al. **Clin Pediatr (Phila)** 1996 Jan;35(1):47–50

Blunt cardiac injury: a 10 year institutional review. van Wijngaarden MH, et al. **Injury** 1997 Jan;28(1):51–5

Electrocardiographic manifestations following electric injury. Arya KR, et al. **Int J Cardiol** 1996 Nov 15; 57(1):100–1

Electrical injury to the heart may cause long-term damage to conducting tissue: a hypothesis and review of the literature. Robinson NM, et al. **Int J Cardiol** 1996 Mar; 53(3):273–7 (20 ref.)

Long-term follow-up of coronary artery dissection due to blunt chest trauma with spontaneous healing in a young woman. Masuda T, et al. **Intensive Care Med** 1996 May; 22(5):450–2

Mitral regurgitation as a late sequela of penetrating cardiac trauma. Wilson WR, et al. **J Heart Valve Dis** 1997 Mar; 6(2):171–3

Foreign body in the heart. Bedi HS, et al. **Tex Heart Inst J** 1997;24(2):140–1

[Ventricular septal perforation due to weak blunt chest trauma. A case report] Takemura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):982–5 (Eng. Abstr.) **(Jpn)**

[A surgical case of severe tricuspid and mitral valvular regurgitation caused by a blunt chest trauma] Yamanishi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep; 44(9):1792–5 (Eng. Abstr.) **(Jpn)**

[Traumatic pericarditis] Hamada O, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):495–7 (20 ref.) **(Jpn)**

[Subepicardial hematoma] Nakano T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):554–5 (4 ref.) **(Jpn)**

[A case of heart concussion/contusion complicated by a complete atrioventricular block] Zebrowski A, et al. **Pol Arch Med Wewn** 1996 Sep;96(3):263–7 (Eng. Abstr.) **(Pol)**

DIAGNOSIS

Sternal fractures in blunt chest trauma: a practical algorithm for management. Chiu WC, et al. **Am J Emerg Med** 1997 May;15(3):252–5

Use of cardiac troponin T, creatine kinase and its isoform to monitor myocardial injury during radiofrequency ablation for supraventricular tachycardia. Shyu KG, et al. **Cardiology** 1996 Sep-Oct;87(5):392–5

Myocardial contusion caused by a baseball [see comments] Morikawa M, et al. **Clin Cardiol** 1996 Oct;19(10):831–3 (19 ref.). Comment in: Clin Cardiol 1996 Dec;19(12):921.

Myocardial contusion. Roxburgh JC. **Injury** 1996 Nov; 27(9):603–5 (26 ref.)

Delayed cardiac tamponade following a stab wound: a case report. Raney JL, et al. **J Ark Med Soc** 1997 May; 93(12):589–91

Thoracoscopic pericardial window and penetrating cardiac trauma [letter] Hoff WS, et al. **J Trauma** 1997 Sep;43(3):561

Thoracoscopic pericardial window and penetrating cardiac trauma. Morales CH, et al. **J Trauma** 1997 Feb;42(2):273–5

[Contusio cordis--too seldom diagnosed?] Hoppe UC, et al. **Med Klin** 1997 Jul 15;92(7):444–6 (Eng. Abstr.) **(Ger)**

[Troponin T, Troponin I and CK-MB (mass) in the detection of periprocedural myocardial damage after coronary angioplasty] La Vecchia L, et al. **Cardiologia** 1997 Apr; 42(4):405–13 (Eng. Abstr.) **(Ita)**

[Myocardial contusion] Fujiwara T. **Ryoikibetsu Shokogun Shirizu** 1996;(14):130–2 (17 ref.) **(Jpn)**

[Injury of the heart and pericardium] Tsybuliak GN, et al. **Khirurgiia (Mosk)** 1996;(4):59–63 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Commotio cordis: clinical implications of blunt cardiac trauma. Crown LA, et al. **Am Fam Physician** 1997 May 15;55(7):2467–70

Myocardial injury after electrical therapy for cardiac arrhythmias assessed by troponin-T release. Runsiö M, et al. **Am J Cardiol** 1997 May 1;79(9):1241-5

Cardiac troponin T concentration after coronary balloon angioplasty [letter; comment] Sribhen K, et al. **Am J Cardiol** 1997 May 15;79(10):1439. Comment on: Am J Cardiol 1995 Sep 1;76(7):521-3.

Upper torso cyanosis: a marker for blunt cardiac rupture. Rogers FB, et al. **Am J Emerg Med** 1997 May;15(3):275-6

Vehicular accidents and cardiac concussion. A traumatic connection. Michalodimitrakis EN, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):282-4

Ventricular perforation associated with central venous introducer-dilator systems. Porter JM, et al. **Can J Anaesth** 1997 Mar;44(3):317-20

Images in cardiovascular medicine. Heart injury from firearm. Montalescot G, et al. **Circulation** 1996 Sep 15; 94(6):1489

Myocardial contusion caused by a baseball [letter; comment] Storch HD. **Clin Cardiol** 1996 Dec;19(12):921. Comment on: Clin Cardiol 1996 Oct;19(10):831-3.

Cardiac perforation associated with continuous infusional chemotherapy. Cooper RA, et al. **Clin Oncol (R Coll Radiol)** 1996;8(6):404-5

Detection and prevention of myocardial damage during open heart surgery [editorial; comment] Birdi I, et al. **Heart** 1996 Sep;76(3):189-90. Comment on: Heart 1996 Sep;76(3):207-13. Comment on: Heart 1996 Sep;76(3):214-7.

Cardiac strangulation, a rare complication of epicardial pacemaker leads during growth. Eyskens B, et al. **Heart** 1997 Mar;77(3):288-9

Left ventricular perforation with Gensini catheters [letter; comment] Cheng TO. **Int J Cardiol** 1997 Mar;59(1):105. Comment on: Int J Cardiol 1996 Feb;53(2):103-6; discussion 107-8.

Catheter perforation of left ventricle in aortic stenosis [corrected] [letter; comment] [published erratum appears in Int J Cardiol 1997 Apr 18;59(2):217] Cheng TO. **Int J Cardiol** 1996 Dec 6;57(2):187. Comment on: Int J Cardiol 1996 Feb;53(2):103-6; discussion 107-8.

Myocardial contusion. Dwivedi S, et al. **J Assoc Physicians India** 1996 Jun;44(6):417

Cardiac arrhythmia caused by a Kirschner wire inside the heart. An unusual complication of finger osteosynthesis. Haapaniemi TA, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):402-4

An unusual cause of penetrating cardiac injury in a child. Mooney DP, et al. **J Pediatr Surg** 1996 May;31(5):707-8

Inadvertent but asymptomatic right atrial perforation with epicardial pacing in a neonate: a rare complication of temporary transvenous cardiac pacing. Reddy SC, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):368-9

Lead explantation late after atrial perforation. Trigano AJ, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1268-9

Survival following traumatic rupture of the heart in a child. Michaels A, et al. **Pediatr Emerg Care** 1997 Feb;13(1):19-20 (16 ref.)

Cardiac perforation due to Wallstent embolization: a fatal complication of the transjugular intrahepatic portosystemic shunt procedure. Prahlow JA, et al. **Radiology** 1997 Oct; 205(1):170-2

Cardiac rupture due to blunt trauma. Tassiopoulos AK, et al. **South Med J** 1997 Jul;90(7):740-2

Surgical treatment for right ventricular perforation caused by transvenous pacing electrodes: a report of three cases. Asano M, et al. **Surg Today** 1996;26(11):933-5

Aortic valve injury secondary to blunt trauma from an air bag [see comments] Hanna KM, et al. **Tenn Med** 1997 May; 90(5):195-6. Comment in: Tenn Med 1997 Aug;90(8):332.

[Heart injury following closed thoracic injury] Bourguignon N, et al. **Ann Fr Anesth Reanim** 1996;15(7):1088-9 (Eng. Abstr.) **(Fre)**

[Successful repair of right atrial rupture due to nonpenetrating trauma of the chest] Sugita T, et al. **Kyobu Geka** 1996 Aug;49(9):768-70 (Eng. Abstr.) **(Jpn)**

[Cases of heart strangulation in a wound of the pericardium] Zharov VV, et al. **Sud Med Ekspert** 1997 Jul-Sep; 40(3):40-3 (Eng. Abstr.) **(Rus)**

[Penetrating trauma by foreign body in the left heart ventricle] García-Lledó JA, et al. **Rev Esp Cardiol** 1997 Feb;50(2):137-9 (Eng. Abstr.) **(Spa)**

HISTORY

The first successful closure of a laceration of the pericardium. Dupre M, et al. **Am Surg** 1997 Apr;63(4):372-4

METABOLISM

Assessment of cardiomyocyte DNA synthesis in normal and injured adult mouse hearts. Soonpaa MH, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H220-6

Myofibroblasts and local angiotensin II in rat cardiac tissue repair. Weber KT, et al. **Int J Biochem Cell Biol** 1997 Jan; 29(1):31-42 (77 ref.)

Abnormal immunostaining for dystrophin in isoproterenol-induced acute myocardial injury in rats: evidence for change in dystrophin in the absence of genetic defect. Miyazato H, et al. **J Mol Cell Cardiol** 1997 Apr; 29(4):1217-23

Relationship between energetic, ionic, and functional status in the perfused rat heart following thermal injury: a 31P and 23Na NMR study. Xia ZF, et al. **J Surg Res** 1997 Apr;69(1):212-9

MICROBIOLOGY

Clostridial endocarditis following penetrating cardiac trauma. Holland F 2nd, et al. **Clin Infect Dis** 1997 Jan;24(1):87-9

MORTALITY

The lethality of penetrating cardiac wounds. Goins WA, et al. **Am Surg** 1996 Dec;62(12):987-93

Multiple gunshot suicides: potential for physical activity and medico-legal aspects. Karger B, et al. **Int J Legal Med** 1997;110(4):188-92 (34 ref.)

PATHOLOGY

Myofibroblasts and local angiotensin II in rat cardiac tissue repair. Weber KT, et al. **Int J Biochem Cell Biol** 1997 Jan; 29(1):31-42 (77 ref.)

Morphologic response of myocardium to freeze-thaw injury in mouse strains with dystrophic cardiac calcification. Brunnert SR. **Lab Anim Sci** 1997 Feb;47(1):11-8

PHYSIOPATHOLOGY

Dysrhythymia from an intrapericardial air gun pellet: a case report. Willemsen P, et al. **Eur J Cardiothorac Surg** 1996; 10(6):461-2

Relationship between energetic, ionic, and functional status in the perfused rat heart following thermal injury: a 31P and 23Na NMR study. Xia ZF, et al. **J Surg Res** 1997 Apr;69(1):212-9

Adult Still's disease with myocardial dysfunction induced by microangiopathy. Ueda T, et al. **Jpn Circ J** 1997 Jan; 61(1):74-7

PREVENTION & CONTROL

Expanded PTFE membrane to prevent cardiac injury during resternotomy for congenital heart disease. Jacobs JP, et al. **Ann Thorac Surg** 1996 Dec;62(6):1778-82

Percutaneous extraction of a fractured, exposed atrial "J" lead retention wire. Caudill CC, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):342-6

RADIOGRAPHY

Computed tomography screens stable patients at risk for penetrating cardiac injury. Nagy KK, et al. **Acad Emerg Med** 1996 Nov;3(11):1024-7

RADIONUCLIDE IMAGING

Residual myocardial damage following electrical injuries. Matsumura H, et al. **J Burn Care Rehabil** 1997 Jul-Aug; 18(4):299-305

Myocardial necrosis by electrocution: evaluation of noninvasive methods. Romero B, et al. **J Nucl Med** 1997 Feb;38(2):250-1

SURGERY

Delayed presentation and repair of isolated traumatic ventricular septal defect. Sarris GE, et al. **Ann Thorac Surg** 1996 Oct;62(4):1194-6

Penetrating cardiothoracic war wounds. Biočina B, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):399-405

Valve repair for traumatic tricuspid regurgitation. Maisano F, et al. **Eur J Cardiothorac Surg** 1996;10(10):867-73

Penetrating cardiac injuries. Karmy-Jones R, et al. **Injury** 1997 Jan;28(1):57-61 (29 ref.)

Survival following pre-hospital arrest with on-scene thoracotomy for a stabbed heart. Keogh SP, et al. **Injury** 1996 Sep;27(7):525-7

Survival following left ventricular rupture and dextrorotation of the heart due to blunt chest trauma [letter] Roynard JL, et al. **Intensive Care Med** 1996 Jun;22(6):609

Diagnosis of a persistent coronary fistula after ventricular septal defect patch closure. Scott CH, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):573-5

Comparison of staples and sutures for cardiorrhaphy in traumatic puncture wounds of the heart. Bowman MR, et al. **J Emerg Med** 1996 Sep-Oct;14(5):615-8

Acute management of complex cardiac injuries. Wall MJ Jr, et al. **J Trauma** 1997 May;42(5):905-12

Surgical treatment for right ventricular perforation caused by transvenous pacing electrodes: a report of three cases. Asano M, et al. **Surg Today** 1996;26(11):933-5

[Outcome of traumatic tricuspid insufficiency, treated surgically. Apropos of 9 cases] Richard P, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90(4):451-6 (Eng. Abstr.) **(Fre)**

[After all, when was the first cardiac suturing performed? (letter)] Vincze K. **Orv Hetil** 1996 Oct 13;137(41):2285 **(Hun)**

[Successful repair of right atrial rupture due to nonpenetrating trauma of the chest] Sugita T, et al. **Kyobu Geka** 1996 Aug;49(9):768-70 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of traumatic rupture of the aortic valve] Imamaki M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2050-3 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Aortic valve injury due to blunt trauma--treatment in acute phase] Kohno M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct;44(10):1882-6 (Eng. Abstr.) **(Jpn)**

[Cardiac injury successfully treated by emergency cardiorrhaphy--a report of 5 cases] Tsukioka K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):2058-62 (Eng. Abstr.) **(Jpn)**

[Injury of the heart and pericardium] Tsybuliak GN, et al. **Khirurgiia (Mosk)** 1996;(4):59-63 (Eng. Abstr.) **(Rus)**

[A decade's experience in treating wounds of the heart and pericardium] Baramiia NN, et al. **Klin Khir** 1996;(7):21-2 **(Rus)**

[The use of the transabdominal approach in a patient with wounds of the heart, diaphragm, phrenic vein and liver] Boĭko VV, et al. **Klin Khir** 1996;(7):50-1 **(Rus)**

[The incompetence of heart wound sutures] Leshchenko AP, et al. **Klin Khir** 1994;(12):60 **(Rus)**

[The treatment of multiple knife wounds of the chest wall and abdomen with damage to the heart, lung, liver and kidney] Skomarovskiĭ ATs, et al. **Klin Khir** 1996;(7):51-2 **(Rus)**

[Cases of heart wounds in children] Solov'ev AE, et al. **Klin Khir** 1994;(12):58-9 **(Rus)**

[The therapeutic procedure in wounds of the heart] Sagatinov RS. **Vestn Khir Im I I Grek** 1995;154(4-6):124-7 (57 ref.) **(Rus)**

[The principles of the delivery of specialized surgical care in wounds of the heart] Sulimanov RA, et al. **Vestn Khir Im I I Grek** 1997;156(2):60-2 (Eng. Abstr.) **(Rus)**

THERAPY

Intracardiac fluid resuscitation in penetrating cardiac wounds. Najm HK. **Injury** 1997 Apr;28(3):231-2

Transplanted cardiomyocytes survive in scar tissue and improve heart function. Jia ZQ, et al. **Transplant Proc** 1997 Jun;29(4):2093-4

ULTRASONOGRAPHY

Transesophageal echocardiography in the evaluation of cardiothoracic trauma. Mollod M, et al. **Am Heart J** 1996 Oct;132(4):841-9

Intracardiac thrombus formation associated with a nonpenetrating gunshot wound of the right ventricular outflow tract demonstrated by transesophageal echocardiography. Nishioka T, et al. **Am Heart J** 1996 Dec; 132(6):1265-7

Chest trauma: the role of transesophageal echocardiography. O'Connor C. **J Clin Anesth** 1996 Nov;8(7):605-13 (53 ref.)

Papillary muscle injury after blunt chest trauma. Wilke A, et al. **J Trauma** 1997 Aug;43(2):360-1

HEART-LUNG BYPASS see **CARDIOPULMONARY BYPASS**

HEART-LUNG MACHINE see **HEART, MECHANICAL**

HEART-LUNG TRANSPLANTATION

An approach to the retrieval of thoracic organs for transplantation. Lloyd-Jones H, et al. **AORN J** 1996 Feb; 63(2):416-23, 425-6

Heart-lung transplantation for patients under 10 with cystic fibrosis. Balfour-Lynn IM, et al. **Arch Dis Child** 1997 Jan; 76(1):38-40

Intracellular thiopurine nucleotides and azathioprine myelotoxicity in organ transplant patients. Boulieu R, et al. **Br J Clin Pharmacol** 1997 Jan;43(1):116-8

Are heart-lung transplant recipients protected from developing transplant coronary artery disease? A case-matched intracoronary ultrasound study. Lim TT, et al. **Circulation** 1996 Oct 1;94(7):1573-7

Psychosocial and ethical issues in surgical approaches to end-stage lung disease. Manzetti JD, et al. **Clin Chest Med** 1997 Jun;18(2):383-90 (50 ref.)

Indications. Unilateral, bilateral, heart-lung, and lobar transplant procedures. Patterson GA. **Clin Chest Med** 1997 Jun;18(2):225-30 (18 ref.)

Hodgkin's disease after cardiac transplant: a report of two cases. Hood IM, et al. **Clin Lab Haematol** 1996 Jun; 18(2):115-6

Medical & surgical approaches to pulmonary hypertension. McLaughlin VV, et al. **Compr Ther** 1997 Sep;23(9):612-6 (21 ref.)

Comparison of low potassium Euro-Collins solution and standard Euro-Collins solution in an extracorporeal rat heart-lung model. Fukuse T, et al. **Eur J Cardiothorac Surg** 1996;10(8):621-7

Assessment of xanthine oxidase in human lung and lung transplantation. Kinnula VL, et al. **Eur Respir J** 1997 Mar; 10(3):676-80

Impact of ganciclovir prophylaxis on heart-lung and lung transplant recipients. Soghikian MV, et al. **J Heart Lung Transplant** 1996 Sep;15(9):881-7

Aspergillus osteomyelitis after heart-lung transplantation. Taillandier J, et al. **J Heart Lung Transplant** 1997 Apr; 16(4):436-8

Consistencies and controversies in the application of the International Society for Heart and Lung Transplantation working formulation for heart transplant biopsy specimens. Rapamycin Cardiac Rejection Treatment Trial Pathologists. Winters GL, et al. **J Heart Lung Transplant** 1996 Jul;15(7):728-35

Fungal infections in lung and heart-lung transplant recipients.

Report of 9 cases and review of the literature. Kanj SS, et al. **Medicine (Baltimore)** 1996 May;75(3):142–56 (127 ref.)
Myocardial fibrosis and right ventricular function of heterotopically transplanted hearts in rats treated with cyclosporin. Kolář F, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:253–60
Epidural lipomatosis: case report and literature review. Hierholzer J, et al. **Neuroradiology** 1996 May;38(4):343–8 (25 ref.)
Different aetiologies of reversible MRI abnormalities in transplant recipients [letter; comment] Miaux Y, et al. **Neuroradiology** 1996 Oct;38(7):688. Comment on: Neuroradiology 1995 Aug;37(6):434–7.
Lung and heart–lung transplantation in children. Noyes BE, et al. **Pediatr Pulmonol** 1997 Jan;23(1):39–48 (57 ref.)
Epstein–Barr virus associated graft failure following heart/lung transplantation. Egan JJ, et al. **Thorax** 1996 Nov;51(11):1160–2; discussion 1164–5
Role of pulmonary function in the detection of allograft dysfunction after heart–lung transplantation. Van Muylem A, et al. **Thorax** 1997 Jul;52(7):643–7
Combined heart–lung–liver, double lung–liver, and isolated liver transplantation for cystic fibrosis in children. Couetil JP, et al. **Transpl Int** 1997;10(1):33–9
Successful sequential double lung transplantation and cardiac repair for aortopulmonary window: technical and functional advantages over heart–lung transplantation. Charpentier A, et al. **Transplant Proc** 1996 Oct;28(5):2878–9
Pregnancy following lung transplantation. Parry D, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):629
Significant reduction in the number of fungal infections after lung–, heart–lung, and heart transplantation using aerosolized amphotericin B prophylaxis. Reichenspurner H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):627–8
Analysis of 10–year experience with heart–lung transplantation for cystic fibrosis. Yacoub MH, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):632
Pharmacodynamics of cyclosporine in heart and heart–lung transplant recipients. II: Blood cyclosporine concentrations and other risk factors for lung allograft rejection. Best NG, et al. **Transplantation** 1996 Nov 27;62(10):1436–41
Outcome of children with pulmonary hypertension referred for lung or heart and lung transplantation. Bridges ND, et al. **Transplantation** 1996 Dec 27;62(12):1824–8
[Intensive care in lung and heart–lung transplantation] Bastien O, et al. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S23–9 (34 ref.) (Eng. Abstr.) **(Fre)**
[Present status of lung transplantation and heart–lung transplantation] Handa M, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):117–22 (29 ref.) (Eng. Abstr.) **(Jpn)**
[Heart–lung and lung transplantation] Herreros J. **Rev Med Univ Navarra** 1994 Oct–Dec;38(4):165–73 (38 ref.) **(Spa)**

ADVERSE EFFECTS

Bronchiolitis obliterans syndrome in heart–lung transplantation: surveillance biopsies. Tamm M, et al. **Am J Respir Crit Care Med** 1997 May;155(5):1705–10
Stanford experience with obliterative bronchiolitis after lung and heart–lung transplantation. Reichenspurner H, et al. **Ann Thorac Surg** 1996 Nov;62(5):1467–72; discussion 1472–3
Enterocytozoon bieneusi as a cause of chronic diarrhea in a heart–lung transplant recipient who was seronegative for human immunodeficiency virus [see comments] Rabodonirina M, et al. **Clin Infect Dis** 1996 Jul;23(1):114–7 . Comment in: Clin Infect Dis 1997 Mar;24(3):534–5.
Hyperammonemia after heart–lung transplantation [letter; comment] Yoshida EM, et al. **Gastroenterology** 1997 Jun; 112(6):2162. Comment on: Gastroenterology 1997 Jan;112(1):236–40.
Comparative study of three PCR assays with antigenaemia and serology for the diagnosis of HCMV infection in thoracic transplant recipients. Barber L, et al. **J Med Virol** 1996 Jun;49(2):137–44
Acute graft–versus–host disease after human heart–lung transplantation: a case report. Pfitzmann R, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):285–7
Bronchiolitis obliterans syndrome (BOS) following heart–lung transplantation. Tamm M, et al. **Transpl Int** 1996;9 Suppl 1:S299–302
[Endobronchial complications in lung and heart–lung transplantation] Bonnette P. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S49–56 (51 ref.) (Eng. Abstr.) **(Fre)**
[Infectious complications of lung and heart–lung transplantation] Nicod LP. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S41–7 (58 ref.) (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Attempts to demonstrate indirect T cell allorecognition of donor MHC peptides in transplant patients. Saleem M, et al. **Immunol Lett** 1996 Dec 1;54(1):21–4
Sequential use of G–CSF and GM–CSF after heart–lung transplantation [letter] Ippoliti G, et al. **J Heart Lung Transplant** 1997 Apr;16(4):473–5
New–onset diabetes mellitus in pediatric thoracic organ recipients receiving tacrolimus–based immunosuppression. Wagner K, et al. **J Heart Lung Transplant** 1997 Mar; 16(3):275–82
Tacrolimus (FK506) proves superior to OKT3 for treating episodes of persistent rejection following intrathoracic transplantation. Meiser BM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):605–6
An investigation of the pharmacokinetics, toxicity, and clinical efficacy of Neoral cyclosporin in cystic fibrosis patients. Mikhail G, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):599–601
Prospective HLA matching is feasible in thoracic organ transplantation. Smith J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1467–8
[Effect of lung transplantation of survival time of heart transplants in the xenogenic, discordant guinea pig–rat model] Kelm C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:539–43 (Eng. Abstr.) **(Ger)**

METHODS

Excellent outcome of cardiac transplantation using domino donor hearts. Smith JA, et al. **Eur J Cardiothorac Surg** 1996;10(8):628–33
An adult canine model of chronic pulmonary hypertension for cardiopulmonary transplantation. Chen EP, et al. **J Heart Lung Transplant** 1997 May;16(5):538–47
Surgical and arteriographic results of bronchial artery revascularization in lung and heart lung transplantation. Nørgaard MA, et al. **J Heart Lung Transplant** 1997 Mar; 16(3):302–12
[Lung and heart–lung transplantation] Wagner TO, et al. **Internist (Berl)** 1996 Mar;37(3):272–82 (35 ref.) **(Ger)**

MORTALITY

Heart/lung transplantation in the Scottish Pulmonary Transplant Unit in Glasgow [letter; comment] Stack BH. **Scott Med J** 1996 Oct;41(5):142. Comment on: Scott Med J 1996 Aug;41(4);101–3.

PHYSIOLOGY

Respiratory sensation related to resistive loads in lung transplant recipients. Peiffer C, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):924–30
Time course of exercise capacity, skeletal and respiratory muscle performance after heart–lung transplantation. Ambrosino N, et al. **Eur Respir J** 1996 Jul;9(7):1508–14
Prognostic value of pulmonary hypertension in patients with chronic interstitial lung disease referred for lung or heart–lung transplantation. Harari S, et al. **J Heart Lung Transplant** 1997 Apr;16(4):460–3
Medium–term patency and anatomic changes after direct bronchial artery revascularization in lung and heart–lung transplantation with the internal thoracic artery conduit. Nørgaard MA, et al. **J Thorac Cardiovasc Surg** 1997 Sep; 114(3):326–31
Heart and lung transplantation in Argentina. Favaloro R. **Transplant Proc** 1996 Dec;28(6):3398–9
Long–term results of heart–lung transplantation for pulmonary hypertension. Mikhail G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):633
Pharmacodynamics of cyclosporine in heart and heart–lung transplant recipients. I: Blood cyclosporine concentrations and other risk factors for cardiac allograft rejection. Best NG, et al. **Transplantation** 1996 Nov 27;62(10):1429–35
A randomized controlled trial of verapamil on cyclosporine nephrotoxicity in heart and lung transplant recipients. Chan C, et al. **Transplantation** 1997 May 27;63(10):1435–40
[Graft dysfunction, acute rejection and bronchiolitis obliterans in lung and heart–lung transplantation] Sleiman C, et al. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S31–40 (66 ref.) (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Measurement of health–related quality of life before and after heart–lung transplantation. Caine N, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1047–58

STATISTICS & NUMERICAL DATA

Thoracic organ transplantation at Papworth Hospital. Braidley PC, et al. **Clin Transpl** 1996;:167–75
Worldwide thoracic organ transplantation: a report from the UNOS/ISHLT International Registry for Thoracic Organ Transplantation. Keck BM, et al. **Clin Transpl** 1996;:31–45
Pediatric heart–lung transplantation: intermediate–term results. Conte JV, et al. **J Heart Lung Transplant** 1996 Jul; 15(7):692–9
The Registry of the International Society for Heart and Lung Transplantation: thirteenth official report—1996. Hosenpud JD, et al. **J Heart Lung Transplant** 1996 Jul;15(7):655–74
The Registry of the International Society for Heart and Lung Transplantation: fourteenth official report—1997. Hosenpud JD, et al. **J Heart Lung Transplant** 1997 Jul; 16(7):691–712
Adult heart–lung and lung transplantation in Scotland [see comments] Walker D, et al. **Scott Med J** 1996 Aug; 41(4):101–3 (26 ref.). Comment in: Scott Med J 1996 Oct;41(5):142.

TRENDS

[Present international status and basic approach of lung and heart–lung transplantation] Kondo T, et al. **Nippon Geka Gakkai Zasshi** 1996 Nov;97(11):997–1002 (27 ref.) (Eng. Abstr.) **(Jpn)**

HEART MASSAGE

Experimental aortocoronary saphenous vein graft function after mechanical cardiac massage with the Anstadt Cup. Anstadt MP, et al. **ASAIO J** 1996 Jul–Aug;42(4):295–300
Combined epicardial–transthoracic electrode paddle placement: a method for defibrillation during open–chest cardiac resuscitation. Kerber RE, et al. **Resuscitation** 1997 Jun;34(3):243–5
[Ventricular assistance by direct pneumatic massage] Mouta MF Jr. **Arq Bras Cardiol** 1995 Dec;65(6):509–10 **(Por)**

ADVERSE EFFECTS

[Erythrocytes from the peripheral blood during direct mechanical heart massage] Ovsiannikov IuA, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):353–6 **(Rus)**

METHODS

Open–chest cardiac massage without major thoracotomy: metabolic indicators of coronary and cerebral perfusion. Buckman RF Jr, et al. **Resuscitation** 1997 Jun;34(3):247–53

HEART, MECHANICAL

see related
OXYGENATORS
Mechanical Circulatory Support. Proceedings of the 5th International Symposium. Bad Oeynhausen, 7–9 September 1995. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S1–53
[Alternatives to heart transplantation] Hejjel L, et al. **Orv Hetil** 1997 May 4;138(18):1107–11 (37 ref.) (Eng. Abstr.) **(Hun)**
[A successful surgical treatment of dissecting thoracoabdominal aortic aneurysm using a heparin coated percutaneous cardiopulmonary support system] Tanaka H, et al. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):524–8 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Does gallstone formation after open cardiac surgery result only from latent hemolysis by replaced valves? [see comments] Azemoto R, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2185–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1069–70.
The protective effect of low power He–Ne laser against erythrocytic damage caused by artificial heart–lung machines. Itoh T, et al. **Hiroshima J Med Sci** 1996 Mar; 45(1):15–22

HISTORY

Charles Drew and the origins of deep hypothermic circulatory arrest. Dobell AR, et al. **Ann Thorac Surg** 1997 Apr;63(4):1193–9
Zuhdi relates history of heart–lung machine [letter; comment] Zuhdi N. **J Okla State Med Assoc** 1996 Aug;89(8):300–1 . Comment on: J Okla State Med Assoc 1996 Mar;89(3):97–106.
John H. Gibbon. The first 20 years of the heart–lung machine [see comments] Fou AA. **Tex Heart Inst J** 1997;24(1):1–8 . Comment in: Tex Heart Inst J 1997;24(2):146.

HEART MITOCHONDRIA see **MITOCHONDRIA, HEART**

HEART MURMURS

see related
HEART AUSCULTATION
HEART SOUNDS
PHONOCARDIOGRAPHY
The rational clinical examination: detecting abnormal systolic murmurs [letter; comment] Ali Y. **JAMA** 1997 May 28; 277(20):1594. Comment on: JAMA 1997 Feb 19;277(7):564–71.
The rational clinical examination: detecting abnormal systolic murmurs [letter; comment] Fosnocht KM. **JAMA** 1997 May 28;277(20):1593–4; discussion 1594. Comment on: JAMA 1997 Feb 19;277(7):564–71.

CLASSIFICATION

Classification of systolic murmurs: still in search of a consensus. Tavel ME. **Am Heart J** 1997 Aug;134(2 Pt 1):330–6

COMPLICATIONS

Should antibiotics be prophylactically administered to a patient with an asymptomatic systolic murmur? [letter; comment] Kleinman B. **Anesthesiology** 1996 Nov; 85(5):1221–2. Comment on: Anesthesiology 1996 Jul;85(1):178–95.
Bacterial endocarditis following endoscopic variceal sclerotherapy. Wong A, et al. **J Clin Gastroenterol** 1997 Mar;24(2):90–1

DIAGNOSIS

Emergency department recognition of acquired ventricular septal defect. Beeson MS, et al. **Am J Emerg Med** 1997 Mar;15(2):155–7
Reappraisal of cardiac murmurs related to aortic

regurgitation. Lee D, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1995 Sep;56(3):152–8

Clinical significance of the apical late systolic ejection murmur: a new phonocardiographic sign indicating dynamic mid–left ventricular obstruction. Fukuda N, et al. **Clin Cardiol** 1996 Feb;19(2):121–7

Acute MI with subsequent heart murmur. Hancock EW. **Hosp Pract (Off Ed)** 1997 Mar 15;32(3):25–6

Valvular heart disease [letter; comment] De Swiet M. **J R Coll Physicians Lond** 1996 Nov–Dec;30(6):589–90. Comment on: J R Coll Physicians Lond 1996 Jul–Aug;30(4):309–15.

Does this patient have an abnormal systolic murmur? [see comments] Etchells E, et al. **JAMA** 1997 Feb 19; 277(7):564–71 (78 ref.). Comment in: JAMA 1997 Feb 19;277(7):572. Comment in: JAMA 1997 May 28;277(20):1593–4; discussion 1594. Comment in: JAMA 1997 May 28;277(20):1594.

What makes a heart murmur innocent? Gessner IH. **Pediatr Ann** 1997 Feb;26(2):82–4, 87–8, 90–1 (11 ref.)

Recognizing normal heart murmurs: a logic–based mnemonic. Sapin SO. **Pediatrics** 1997 Apr;99(4):616–9

Are chest radiographs and electrocardiograms still valuable in evaluating new pediatric patients with heart murmurs or chest pain? Swenson JM, et al. **Pediatrics** 1997 Jan; 99(1):1–3

[Heart murmurs associated with organic murmurs] Onishchenko EF, et al. **Ter Arkh** 1996;68(12):42–6 (Eng. Abstr.) **(Rus)**

[Bone deformities of the thorax and heart murmur: innocent versus organic?] Villelabeitia Deusto JA. **An Esp Pediatr** 1997 May;46(5):519–20 **(Spa)**

EPIDEMIOLOGY

The significance of basal systolic murmurs in the elderly. Reardon M, et al. **Ir Med J** 1996 Nov–Dec;89(6):230–1

ETIOLOGY

Clinical and echocardiographic evaluation of neonates with heart murmurs. Du ZD, et al. **Acta Paediatr** 1997 Jul; 86(7):752–6

Digital acoustic analysis of precordial innocent versus ventricular septal defect murmurs in children. Balster DA, et al. **Am J Cardiol** 1997 Jun 1;79(11):1552–5

Intensity of murmur and severity of regurgitation [letter; comment] Babu AN. **Am J Med** 1996 Dec;101(6):664. Comment on: Am J Med 1996 Feb;100(2):149–56.

Abdominal pain, heart murmur, and lung infiltrates in a 40–year–old man. Schultz M, et al. **Chest** 1997 Feb; 111(2):498–500

Children with heart murmurs: can ventricular septal defect be diagnosed reliably without an echocardiogram? Danford DA, et al. **J Am Coll Cardiol** 1997 Jul;30(1):243–6

Trans–systolic murmur during the Valsalva maneuver in a patient with apical aneurysm—a case report. Sakanoue Y, et al. **Jpn Circ J** 1996 Mar;60(3):181–4

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 2–1997. A 38–year–old man with digital clubbing, low–grade fever, and a murmur [clinical conference] **N Engl J Med** 1997 Jan 16; 336(3):205–10

Assessing a murmur, saving a life: current trends in the management of hypertrophic cardiomyopathy. Katz JR, et al. **Nurse Pract** 1996 Nov;21(11):62, 65–6, 69 passim (29 ref.)

An audible shunt murmur in atrial septal defect [letter] Reynolds JL. **Pediatr Cardiol** 1997 Jul–Aug;18(4):318–9

[The cardiac and neurological manifestations of Lyme borreliosis in congenital first–degree AV block] Stille–Siegener M, et al. **Dtsch Med Wochenschr** 1996 Oct 18;121(42):1292–6 (18 ref.) (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

[Mid–systolic click–late systolic murmur syndrome (MSC–LSMS)] Ohara M. **Ryoikibetsu Shokogun Shirizu** 1996;(13):378–80 (12 ref.) **(Jpn)**

ULTRASONOGRAPHY

Clinical and echocardiographic evaluation of neonates with heart murmurs. Du ZD, et al. **Acta Paediatr** 1997 Jul; 86(7):752–6

Colour flow Doppler echocardiography in horses with cardiac murmurs. Blissitt KJ, et al. **Equine Vet J Suppl** 1995 Sep;(19):82–5

The 'sail sound' and tricuspid regurgitation in Ebstein's anomaly: the value of echocardiography in evaluating their mechanisms. Oki T, et al. **J Heart Valve Dis** 1997 Mar; 6(2):189–92

Chaotic musical murmur in aortic regurgitation. Miyahara K, et al. **Jpn Circ J** 1996 Dec;60(12):993–7

VETERINARY

Colour flow Doppler echocardiography in horses with cardiac murmurs. Blissitt KJ, et al. **Equine Vet J Suppl** 1995 Sep;(19):82–5

Heart murmurs in horses: determining their significance with echocardiography [see comments] Reef VB. **Equine Vet J Suppl** 1995 Sep;(19):71–80 (84 ref.). Comment in: Equine Vet J Suppl 1995 Sep;(19):3–4.

HEART NEOPLASMS

Cardiac rhabdomyoma of a neonate: an autopsy case report. Sadi AM, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):361–4

Primary and secondary neoplasms of the heart [editorial] Roberts WC. **Am J Cardiol** 1997 Sep 1;80(5):671–82 (87 ref.)

Ectopic thyroid malignancy in the right ventricle of the heart. Hirnle T, et al. **Eur J Cardiothorac Surg** 1997 Jul; 12(1):147–9

Familial cardiac myxoma—a comprehensive review of reported cases. Singh SD, et al. **J Ky Med Assoc** 1996 Mar; 94(3):96–104 (43 ref.)

Bilateral atrial tumors—report of an elderly man with a heavily calcified left atrial tumor. Nakajima O, et al. **Jpn Circ J** 1996 Sep;60(9):715–8

Primary malignant cardiac tumors. Lepore V, et al. **Minerva Cardioangiol** 1996 Jul–Aug;44(7–8):353–9

Cardiac paraganglioma in New Jersey. Cha R, et al. **N J Med** 1997 Jul;94(7):35–7

Neurofibromatosis with cardiac involvement [letter] Noubani H, et al. **Pediatr Cardiol** 1997 Mar–Apr;18(2):156–8

[Asymptomatic left ventricular myxoma in pregnancy: echocardiographic diagnosis and surgical treatment] Fiorilli R, et al. **G Ital Cardiol** 1996 Aug;26(8):887–90 (Eng. Abstr.) **(Ita)**

[Primary malignant lymphoma of the heart] Arai Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):257–9 (14 ref.) **(Jpn)**

[Synovial sarcoma of the heart] Chin W, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):233–6 (20 ref.) **(Jpn)**

[Cardiac myxomas and myxosarcomas] Hayashi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):265–7 (19 ref.) **(Jpn)**

[Mitral valve tumor] Komiyama N. **Ryoikibetsu Shokogun Shirizu** 1996;(14):279–81 (20 ref.) **(Jpn)**

[Cardiac rhabdomyoma, cardiac rhabdomyosarcoma] Kondo T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):227–9 (21 ref.) **(Jpn)**

[Lipoma and liposarcoma of the heart] Mikouchi H. **Ryoikibetsu Shokogun Shirizu** 1996;(14):246–9 (23 ref.) **(Jpn)**

[Cardiac mesothelioma] Natsume T. **Ryoikibetsu Shokogun Shirizu** 1996;(14):263–4 (5 ref.) **(Jpn)**

[Pericardial mesothelioma (benign, malignant)] Natsume T. **Ryoikibetsu Shokogun Shirizu** 1996;(14):270–1 (5 ref.) **(Jpn)**

[Benign pericardial tumor (angioma, lipoma, teratoma)] Natsume T. **Ryoikibetsu Shokogun Shirizu** 1996;(14):295–6 (5 ref.) **(Jpn)**

[Hemangiopericytoma of the heart] Ono K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):241–5 (29 ref.) **(Jpn)**

[Cardiac fibroma, cardiac fibrosarcoma] Saeki K. **Ryoikibetsu Shokogun Shirizu** 1996;(14):254–6 (14 ref.) **(Jpn)**

[Epicardial lipoma] Saito D, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):230–2 (17 ref.) **(Jpn)**

[Pericardial lymphoma] Shibata K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):276–8 (8 ref.) **(Jpn)**

[Papillary fibroelastoma] Shigemitsu O, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):286–8 (15 ref.) **(Jpn)**

[Hemangioma of the heart, angiosarcoma of the heart] Tadehara F, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (14):237–40 (19 ref.) **(Jpn)**

[Pericardiac lymphangioma] Takahashi M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):268–9 (8 ref.) **(Jpn)**

[Epithelioid hemangioendothelioma] Yamamoto H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):297–9 (12 ref.) **(Jpn)**

[Myxoma arising from the lateral wall of left atrium (letter)] Rodrígues Blanco VM, et al. **An Med Interna** 1997 Feb; 14(2):103–4 **(Spa)**

CHEMISTRY

Primitive neuroectodermal tumor of the myocardium: a case report, review of the literature, immunohistochemical, and ultrastructural study. Charney DA, et al. **Hum Pathol** 1996 Dec;27(12):1365–9 (26 ref.)

Phenotypic characterization of cellular components of cardiac myxoma: a light microscopy and immunohistochemistry study. Deshpande A, et al. **Hum Pathol** 1996 Oct;27(10):1056–9

COMPLICATIONS

The natural history of cardiac rhabdomyoma with and without tuberous sclerosis. Bosi G, et al. **Acta Paediatr** 1996 Aug;85(8):928–31

Treatment of malignant obstruction of the right ventricular outflow tract and pulmonary artery with metallic stents. Balkin PW, et al. **AJR Am J Roentgenol** 1997 Aug; 169(2):439–40

Ventricular tachycardia caused by cardiac rhabdomyoma in a young adult with tuberous sclerosis. Enbergs A, et al. **Am Heart J** 1996 Dec;132(6):1263–5

Primary leiomyosarcoma of the heart presenting as obstruction to the pulmonary trunk. Panday VR, et al. **Am Heart J** 1997 Apr;133(4):465–6

Pericardial tamponade from Kaposi's sarcoma: role of early pericardial window. Vijay V, et al. **Am Heart J** 1996 Oct; 132(4):897–9 (6 ref.)

Multiple, juxtasutural, cranial hyperostoses and cardiac tumor: a new hamartomatous syndrome? Nishimura G, et al. **Am J Med Genet** 1997 Aug 8;71(2):167–71

The epithelioid blue nevus. A multicentric familial tumor with important associations, including cardiac myxoma and psammomatous melanotic schwannoma. Carney JA, et al. **Am J Surg Pathol** 1996 Mar;20(3):259–72

Grand rounds—Nottingham City Hospital. A rare cause of superior vena cava obstruction. Harrison TW. **BMJ** 1996 Nov 23;313(7068):1324–6

Use of sympathomimetic nasal spray in association with cardiac fibroma: an unusual cause of ventricular tachycardia. Khan A, et al. **Br J Clin Pract** 1997 Apr–May; 51(3):192–3

Multiple intraabdominal aneurysms—getting to the heart of the matter. Davies RS, et al. **Br J Radiol** 1997 Jun; 70(834):659–60

Right outflow tract obstruction by a pedunculated neurofibroma: case report and literature review. Henderson W, et al. **Can J Cardiol** 1997 Apr;13(4):387–90 (17 ref.)

Non–Hodgkin's lymphoma of the heart in patients infected with human immunodeficiency virus. Duong M, et al. **Clin Cardiol** 1997 May;20(5):497–502 (24 ref.)

Evolution of cardiac rhabdomyoma in tuberous sclerosis complex. DiMario FJ Jr, et al. **Clin Pediatr (Phila)** 1996 Dec;35(12):615–9

Primary melanoma of the heart: case report of an association with coronary stenosis. Robin J, et al. **Eur J Cardiothorac Surg** 1996;10(7):593–4

Infected left atrial myxoma with concomitant mitral valve endocarditis. Vogt PR, et al. **Eur J Cardiothorac Surg** 1996; 10(1):71–3

Left atrial myxoma causing ophthalmic artery occlusion. Rafuse PE, et al. **Eye** 1997;11 (Pt 1):25–9

Primary cardiac gastrinoma causing Zollinger–Ellison syndrome. Gibril F, et al. **Gastroenterology** 1997 Feb; 112(2):567–74

Acute tamponade in a newborn infant caused by a massive cystic teratoma. Uzun O, et al. **Heart** 1996 Aug;76(2):188

Angiosarcoma of the heart presenting as fatal pulmonary hemorrhage. Ebi N, et al. **Intern Med** 1997 Mar;36(3):191–3

A left atrial myxoma complicated with acute myocardial infarction. Soejima Y, et al. **Intern Med** 1997 Jan;36(1):31–4

Aggressive non–Hodgkin's lymphoma with massive involvement of the right ventricle. Tanaka T, et al. **Intern Med** 1996 Oct;35(10):826–30 (22 ref.)

Right ventricular outflow tract obstruction by cardiac metastasis as the first manifestation of follicular thyroid carcinoma. Kasprzak JD, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):733–5

Left atrial myxoma presenting with embolism to the aorta. Ponduri K, et al. **J Am Soc Echocardiogr** 1997 May; 10(4):381–3

Intracardiac tumor in a neonate causing complete tricuspid valve obstruction. Shore–Lesserson L, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):487–9

An unusual cause of stroke in a young adult. Robinson DC. **J Fam Pract** 1997 Apr;44(4):401–4

Transitional cell carcinoma and right ventricular obstruction. Kemp W, et al. **J Urol** 1997 Oct;158(4):1522–3

Severe humoral hypercalcemia in primary isolated non–Hodgkin's lymphoma of the heart. Yigla M, et al. **Med Pediatr Oncol** 1997 Mar;28(3):183–6

Sudden death due to cardiac myxoma. Vassiliadis N, et al. **Med Sci Law** 1997 Jan;37(1):76–8

Intra–arterial thrombolysis of embolic proximal middle cerebral artery occlusion from presumed atrial myxoma. Bekavac I, et al. **Neurology** 1997 Aug;49(2):618–20

Aortic intimal sarcoma with acute myocardial infarction. Nanjo H, et al. **Pathol Int** 1996 Sep;46(9):673–81 (40 ref.)

Amiodarone in a newborn with ventricular tachycardia and an intracardiac tumor: adjusting the dose according to an individualized dosing regimen. Bouillon T, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):112–4

Unique association of a rapidly growing right atrial myxoma in a child with double–outlet right ventricle. Goldberg BE, et al. **Pediatr Cardiol** 1997 Jul–Aug;18(4):303–5

Surgical treatment of left–atrial myxoma in Carney's complex. Akbaş H, et al. **Thorac Cardiovasc Surg** 1997 Jun; 45(3):148–50

[Fatal double tracheo–esophageal vascular compression and neurofibromatosis] Fischberg C, et al. **Arch Pediatr** 1996 Dec;3(12):1253–7 (Eng. Abstr.) **(Fre)**

[Functional tricuspid atresia in a newborn infant with cardiac rhabdomyoma] Hofner G, et al. **Klin Padiatr** 1997 May–Jun;209(3):130–2 (Eng. Abstr.) **(Ger)**

[Recurrent angina pectoris in stress caused by hemangioma of the heart] Wahba A, et al. **Z Kardiol** 1997 Jul;86(7):545–8 (Eng. Abstr.) **(Ger)**

[Simultaneous occurrence and treatment of right atrial myxoma and extensive colonic polyposis causing recurrent intestinal hemorrhages] Jánosi A, et al. **Orv Hetil** 1996 Jul 28;137(30):1647–50 (Eng. Abstr.) **(Hun)**

[A case report of mitral valve papillary fibroelastoma leading to embolic stroke] Shirota K, et al. **Kyobu Geka** 1996 Jul;

49(7):571–4 (18 ref.) (Eng. Abstr.) **(Jpn)**
[Myxoma of the left atrium causing acute myocardial infarction] Meira EB, et al. **Arq Bras Cardiol** 1996 Nov; 67(5):347–9 (Eng. Abstr.) **(Por)**
[Cardiac tamponade caused by a rhabdomyosarcoma in the right atrium (letter)] Valdovinos Mahave MC, et al. **Med Clin (Barc)** 1997 Jun 7;109(2):79 **(Spa)**
[Right ventricular myxoma. A rare case of pulmonary stenosis] Riera JM, et al. **Rev Esp Cardiol** 1996 Feb; 49(2):153–4 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Intraoperative fine needle aspiration diagnosis of cardiac rhabdomyoma. A case report. Owji SM, et al. **Acta Cytol** 1997 May–Jun;41(3):835–8
MR demonstration of right atrial involvement in multifocal epithelioid hemangioendothelioma. Bisesi MA, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):953–4
Intrapericardial paragangliomas (pheochromocytomas): imaging features. Hamilton BH, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):109–13
Primary cardiac fibrosarcoma [letter; comment] Anand A, et al. **Am Heart J** 1996 Dec;132(6):1320–1. Comment on: Am Heart J 1996 Feb;131(2):399–402.
Characteristics of 161 patients with cardiac tumors diagnosed during 1993 and 1994 in Japan. Endo A, et al. **Am J Cardiol** 1997 Jun 15;79(12):1708–11
Primary cardiac lymphoma. Chim CS, et al. **Am J Hematol** 1997 Jan;54(1):79–83
MRI in the evaluation and management of a newborn infant with cardiac rhabdomyoma. Berkenblit R, et al. **Ann Thorac Surg** 1997 May;63(5):1475–7
Primary tumors of the aorta. Das AK, et al. **Ann Thorac Surg** 1996 Nov;62(5):1526–8 (8 ref.)
Visualization of ventricular fibroelastoma with a video-assisted thoracoscope. Espada R, et al. **Ann Thorac Surg** 1997 Jan;63(1):221–3
Myxoma of the aortic valve. Watarida S, et al. **Ann Thorac Surg** 1997 Jan;63(1):234–6
Primary cardiac angiosarcoma: clinical and pathological diagnostic problems. Afzal MN, et al. **Can J Cardiol** 1997 Mar;13(3):293–6
Images in cardiovascular medicine: complete heart block. Reisinger J, et al. **Circulation** 1997 Aug 19;96(4):1364
Angina pectoris and progressive fatigue in a 61-year-old man [clinical conference] Schäfer S, et al. **Circulation** 1996 Dec 15;94(12):3376–81
Evolution of cardiac rhabdomyoma in tuberous sclerosis complex. DiMario FJ Jr, et al. **Clin Pediatr (Phila)** 1996 Dec;35(12):615–9
Primary synovial cardiac sarcoma: a rare cause of tamponade [letter] Constantinou LL, et al. **Eur Heart J** 1996 Nov; 17(11):1766–8
Malignant peripheral nerve sheath tumour: a rare tumour and an unusual intrapericardial presentation. Nkere UU, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):144–6
'Christmas tree' cardiac myxoma [letter] Santoro G, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1186–7
Case of the month: a 4-year-old girl with cardiac insufficiency and intermittent fever. Mroziński B, et al. **Eur J Pediatr** 1997 Feb;156(2):153–4
Imitation of a chronic recurrent inflammatory illness by a cardiac myxoma. Pfammatter JP, et al. **Eur J Pediatr** 1996 Aug;155(8):637–9
Carcinoma of the uterine cervix with myocardial metastasis. Ando K, et al. **Gynecol Oncol** 1997 Apr;65(1):169–72
Evaluation by electron beam computed tomography of intracardiac masses suspected by transoesophageal echocardiography. Mousseaux E, et al. **Heart** 1996 Sep; 76(3):256–63
Calcified amorphous tumor of the heart (cardiac CAT). Reynolds C, et al. **Hum Pathol** 1997 May;28(5):601–6
Primary benign haemangioma of the right ventricle. Airan B, et al. **Indian Heart J** 1996 Jul–Aug;48(4):405–6
Left ventricular myxoma with adhesions to mitral valve leaflets—case report. Mahorkar UK, et al. **Indian Heart J** 1995 Sep–Oct;47(5):499–500
Primary lymphoma of the heart, diagnosed antemortem. Yamada N, et al. **Intern Med** 1997 Jun;36(6):417–9
Greetings from below the aortic arch! The paradigm of cardiac paraganglioma. Heufelder AE, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):891–5
Case report. Pericardial hemangioma. Brodwater B, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):954–6 (8 ref.)
MRI of primary malignant cardiovascular tumors. Siripornpitak S, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):462–6
Comparison of albumin–(Gd-DTPA)30 and Gd-DTPA-24-cascade-polymer for measurements of normal and abnormal microvascular permeability. Roberts HC, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):331–8
Atrial myxoma presenting as a pleural effusion and raised erythrocyte-sedimentation rate of unknown cause. Andrews R, et al. **J R Soc Med** 1996 Oct;89(10):585–6
Left atrial myxoma with embolization presenting as an acute infrarenal aortic occlusion. Horn KD, et al. **J Vasc Surg** 1997 Aug;26(2):341–5
Primary pericardial mesothelioma demonstrated by magnetic resonance imaging. Ohnishi J, et al. **Jpn Circ J** 1996 Nov; 60(11):898–900
Neonatal tuberous sclerosis with cardiac rhabdomyomas presenting as fetal supraventricular tachycardia. Wu CT, et al. **Jpn Heart J** 1997 Jan;38(1):133–7
Diagnosis of right atrial metastatic melanoma by transesophageal echocardiographic-guided transvenous biopsy. Malouf JF, et al. **Mayo Clin Proc** 1996 Dec; 71(12):1167–70 (14 ref.)
Primary cardiac malignancy presenting as left atrial myxoma. Clinical and surgical considerations. Donatelli F, et al. **Minerva Chir** 1996 Jul–Aug;51(7–8):585–8
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 19–1997. A 57-year-old man with a bloody pericardial effusion [clinical conference] **N Engl J Med** 1997 Jun 19;336(25):1812–9
Cardiac localization of non-Hodgkin's lymphoma: two case reports and review of the literature. Delmas-Marsalet B, et al. **Nouv Rev Fr Hematol** 1995;37(4):223–30 (40 ref.)
Simulation of right atrial cardiac myxoma by silent hepatocellular carcinoma. Giacalone A, et al. **Pathol Res Pract** 1996 Dec;192(12):1270–3; discussion 1274
Primary rhabdomyosarcoma of the heart presenting with increased intracranial pressure. Altunbaşak S, et al. **Pediatr Cardiol** 1996 Jul–Aug;17(4):260–4
Intrapericardial lymphangioma presenting as neonatal cardiac tamponade. Daubeney PE, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):129–31 (12 ref.)
A retrocardiac shadow in an immunocompromised patient. Huwez FU, et al. **Postgrad Med J** 1997 Jun;73(860):331–2
Systemic embolisation. Richardson D, et al. **Postgrad Med J** 1997 Feb;73(856):115–6
Pediatric case of the day. Cardiac rhabdomyoma. Aideyan UO, et al. **Radiographics** 1997 May–Jun;17(3):805–7
Malignant tumors of the heart and great vessels: MR imaging appearance. Mader MT, et al. **Radiographics** 1997 Jan–Feb; 17(1):145–53
An uncommon heart tumor: the fibrosarcoma. Coppola V, et al. **Radiol Med (Torino)** 1997 May;93(5):637–9
Primary lipomatous tumors of the cardiac valves. Benvenuti LA, et al. **South Med J** 1996 Oct;89(10):1018–20 (17 ref.)
Primary cardiac lymphoma: initial symptoms suggestive of gastrointestinal disease. Nakchbandi IA, et al. **South Med J** 1997 May;90(5):539–43 (32 ref.)
Cardiac multiple rhabdomyomatosis: prenatal diagnosis and natural history. Paladini D, et al. **Ultrasound Obstet Gynecol** 1996 Jan;7(1):84–5
[Fibrous aortic valve tumor (Lambl's excrescence) trapped in the right coronary artery. Apropos of a case] Quinson P, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1419–23 (Eng. Abstr.) **(Fre)**
[Heart tumors—their manifestation through uncharacteristic symptoms] Hoppe UC, et al. **Dtsch Med Wochenschr** 1997 Apr 25;122(17):551–7 (52 ref.) **(Ger)**
[Heart tumors] Hoffmann U. **Radiologe** 1997 May;37(5):351–8 (91 ref.) (Eng. Abstr.) **(Ger)**
[Pericardium—radiologic diagnosis] Kopsa W, et al. **Radiologe** 1997 May;37(5):378–87 (28 ref.) (Eng. Abstr.) **(Ger)**
[Acute dyspnea (clinical conference)] Chatterjee T, et al. **Schweiz Rundsch Med Prax** 1996 Oct 15;85(42):1327–31 (Eng. Abstr.) **(Ger)**
[Livedo racemosa generalisata in atrial myxoma] Rambusch EG, et al. **Z Rheumatol** 1996 Jan–Feb;55(1):58–62 (Eng. Abstr.) **(Ger)**
[Sudden death from lipomatous hamartoma of the heart] Calamida R, et al. **G Ital Cardiol** 1996 Dec;26(12):1421–4 (Eng. Abstr.) **(Ita)**
[Tardive pseudo-ischemic presentation of cardiac rhabdomyoma] Matteucci C, et al. **G Ital Cardiol** 1997 Jun; 27(6):583–7 (Eng. Abstr.) **(Ita)**
[Intrapericardial angioma adhering to the trunk of the pulmonary artery. Diagnostic value of computerized axial tomography] Minutiello L. **Minerva Cardioangiol** 1996 Jun; 44(6):319–23 (Eng. Abstr.) **(Ita)**
[A 42-year-old woman with cardiac tumor and tamponade] Nakayama M, et al. **J Cardiol** 1996 Dec;28(6):355–6 **(Jpn)**
[Primary tumors of the heart and pericardium] Hayashi T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):250–3 (17 ref.) **(Jpn)**
[Primary tumors of the cardiac septum] Nakamura N, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):260–2 (19 ref.) **(Jpn)**
[Asymptomatic cardiac tumor] Nakatoh H. **Ryoikibetsu Shokogun Shirizu** 1996;(14):291–4 (16 ref.) **(Jpn)**
[Intrapericardial teratoma. A case report and a literature review] Ribeiro PJ, et al. **Arq Bras Cardiol** 1996 Jun; 66(6):361–4 (Eng. Abstr.) **(Por)**
[Hemangioma of the right ventricle] Caires G, et al. **Rev Port Cardiol** 1997 Jun;16(6):561–7 (17 ref.) (Eng. Abstr.) **(Por)**
[Systemic vasculitis as the initial presentation of a left atrial myxoma] Macedo ME, et al. **Rev Port Cardiol** 1997 May; 16(5):463–6, 441 (14 ref.) (Eng. Abstr.) **(Por)**
[Diagnosis by echocardiography of a case of myxoma in the left ventricle] García Angleu F, et al. **An Esp Pediatr** 1996 Oct;45(4):415–6 **(Spa)**
[Atypical auricular myxoma and mitral valvulopathy. A rare association (letter)] Abad C, et al. **An Med Interna** 1996 Dec;13(12):616 **(Spa)**
[Comments on Clinicopathological Conference by Residents, 6, 1996 (letter)] Fernández de la Puebla Giménez RA. **Med Clin (Barc)** 1997 May 24;108(20):797 **(Spa)**

DRUG THERAPY

Left ventricular myxoma presenting with constitutional symptoms and raised serum interleukin-6 both suppressed by naproxen [letter] Vaughan CJ, et al. **Eur Heart J** 1997 Apr;18(4):703
Intrapericardial administration of cisplatin in treatment of metastatic pericardial involvement in adenocarcinoma of the lung. Tomkowski WZ, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):221–4

EMBRYOLOGY

[Fetal cardiac tumors] Gutiérrez-Larraya Aguado F, et al. **Rev Esp Cardiol** 1997 Mar;50(3):187–91 (Eng. Abstr.) **(Spa)**

ENZYMOLOGY

Cardiac myxoma is rich in factor XIIIa positive dendrophages: immunohistochemical study of four cases. Berrutti L, et al. **Histopathology** 1996 Jun;28(6):529–35

EPIDEMIOLOGY

[Clinical incidence of primary cardiac tumors] Endo A, et al. **J Cardiol** 1996 Oct;28(4):227–34 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

[Lymphoma in the transplanted heart] Gélisse R, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1205–7 (Eng. Abstr.) **(Fre)**
[Tumor in the right cardiac chambers.Regression after antitubercular treatment.Apropos of a case] Mesbahi R, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11):1425–9 (Eng. Abstr.) **(Fre)**

GENETICS

Genetic heterogeneity of familial atrial myxoma syndromes (Carney complex). Basson CT, et al. **Am J Cardiol** 1997 Apr 1;79(7):994–5
Atrial myxoma in a woman with autosomal dominant polycystic kidney disease type 2 [letter] Iglesias D, et al. **Am J Kidney Dis** 1997 Jan;29(1):164–5
Addition (1)(q32) as the sole clonal chromosomal abnormality in a case of cardiac myxoma [letter] Dobin S, et al. **Cancer Genet Cytogenet** 1997 Jul 15;96(2):181–2
Cytogenetic and molecular genetic analysis of a pediatric pleomorphic sarcoma reveals similarities to adult malignant fibrous histiocytoma. Palmer JL, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):141–7

IMMUNOLOGY

Correlation of interleukin-6 gene expression to immunologic features in patients with cardiac myxomas. Parissis JT, et al. **J Interferon Cytokine Res** 1996 Aug;16(8):589–93
Interleukin-6 plasma levels and tumor size in cardiac myxoma. Soeparwata R, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1675–7

METABOLISM

The nature of the cardiac myxoma. Suvarna SK, et al. **Int J Cardiol** 1996 Dec 13;57(3):211–6

MICROBIOLOGY

Infected left atrial myxoma with concomitant mitral valve endocarditis. Vogt PR, et al. **Eur J Cardiothorac Surg** 1996; 10(1):71–3
Infected left atrial myxoma caused by Gemella morbillorum. Wang TD, et al. **Scand J Infect Dis** 1996;28(6):633–4

PATHOLOGY

Recurrent cervical squamous cell carcinoma presenting with cardiac tamponade [letter; comment] Lam KY. **Am J Cardiovasc Pathol** 1995;5(1):95. Comment on: Am J Cardiovasc Pathol 1992;4(1):69–72.
Primary cardiac tumors causing sudden death: a review of the literature. Cina SJ, et al. **Am J Forensic Med Pathol** 1996 Dec;17(4):271–81 (59 ref.)
Rapid enlargement of cardiac rhabdomyoma during corticotropin therapy for infantile spasms. Hishitani T, et al. **Can J Cardiol** 1997 Jan;13(1):72–4
Primary cardiac tumors: forty years' experience with 71 patients. Perchinsky MJ, et al. **Cancer** 1997 May 1; 79(9):1809–15
Transesophageal echocardiography-guided transvenous endomyocardial biopsy used to diagnose primary cardiac angiosarcoma. Hammoudeh AJ, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):347–9
Malignant fibrous histiocytoma of the left ventricle: a case report. Fang CY, et al. **Chang Keng I Hsueh** 1996 Jun; 19(2):187–90
Primary chondrosarcoma of the heart: a case report. Tsai FC, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):348–51
Cardiac myxoma with glandular elements metastatic to the brain 12 years after the removal of the original tumor. Scarpelli M, et al. **Clin Neuropathol** 1997 Jul–Aug; 16(4):190–4
Fine-needle aspiration of a primary right atrial myxoma [see comments] Layfield LJ, et al. **Diagn Cytopathol** 1996 Mar; 14(2):162–4. Comment in: Diagn Cytopathol 1996 Dec;15(6):455–6.

Cardiac myxoma immunohistochemistry: value of CD34, CD31, and factor XIIIa staining [letter; comment] Silverman JS, et al. **Diagn Cytopathol** 1996 Dec;15(5):455–6 . Comment on: Diagn Cytopathol 1996 Mar;14(2):162–4.

Multiple cardiac rhabdomyoma with exclusively histological manifestation. Grellner W, et al. **Forensic Sci Int** 1996 Mar 5;78(1):1–5

Myocardial rhabdomyoma with rhabdomyoblastic moiety. Bosman C, et al. **Gen Diagn Pathol** 1996 May; 141(5–6):393–8

Pericardial myolipoma: a tumour presenting as a mediastinal mass and containing oestrogen receptors. Ben-Izhak O, et al. **Histopathology** 1996 Aug;29(2):184–6

Immunohistochemical expression of endothelial markers in left atrial myxomas: a study of six cases. Farrell DJ, et al. **Histopathology** 1996 Feb;28(2):147–52

Synovial sarcoma of the heart. Nicholson AG, et al. **Histopathology** 1997 Apr;30(4):349–52 (16 ref.)

Phenotypic characterization of cellular components of cardiac myxoma: a light microscopy and immunohistochemistry study. Deshpande A, et al. **Hum Pathol** 1996 Oct;27(10):1056–9

Cardiac malignant lymphoma in severe combine immunodeficient mice. Aftabuddin M, et al. **Indian Heart J** 1996 Jul–Aug;48(4):368–70

Coronary arteriographic and pathological findings in a case of primary leiomyosarcoma of the heart. Davis GK, et al. **Int J Cardiol** 1997 May 23;59(3):313–6

Large right ventricular myxoma in a 79-year-old male. Soejima Y, et al. **Intern Med** 1996 May;35(5):380–2

Sudden death due to tricuspid valve myxoma with massive pulmonary embolism in a 15-month old male. Parker KM, et al. **J Forensic Sci** 1997 May;42(3):524–6

Interleukin-6 plasma levels and tumor size in cardiac myxoma. Soeparwata R, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1675–7

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 16–1997. A 42-year-old woman with a pulmonic-valve mass [clinical conference] **N Engl J Med** 1997 May 22;336(21):1512–6

More on cardiac myxomas [letter; comment] Burke A, et al. **N Engl J Med** 1996 Nov 7;335(19):1462–63; discussion 1463–4. Comment on: N Engl J Med 1996 May 23;334(21):1407–8; discussion 1408–9. Comment on: N Engl J Med 1996 May 23;334(21):1408; discussion 1408–9.

An autopsy case of diffuse malignant mesothelioma of the pericardium. Sakuma N, et al. **Pathol Int** 1997 Jan; 47(1):64–7

Metastasizing uterine leiomyoma. A case with cardiac and pulmonary metastasis. Takemura G, et al. **Pathol Res Pract** 1996 Jun;192(6):622–9; discussion 630–3

Left ventricular fibroma in an aged patient: report of a case. Sakata K, et al. **Surg Today** 1997;27(1):88–9

Cardiac papillary fibroelastoma. Ni Y, et al. **Thorac Cardiovasc Surg** 1996 Oct;44(5):257–60

Epithelioid haemangioma of the heart. de Nictolis M, et al. **Virchows Arch** 1996 May;428(2):119–23

Non-Hodgkin lymphoma with exclusive involvement of the heart and the gastrointestinal tract. Zelger BG, et al. **Virchows Arch** 1997 May;430(5):427–30

Cardiac fibroma presenting as sudden death in a six-month-old infant. Mohammed W, et al. **West Indian Med J** 1997 Mar;46(1):28–9

[Double recurrence of myxoma of the left atrium. Apropos of a case] Alami A, et al. **Ann Cardiol Angeiol (Paris)** 1996 Dec;45(10):585–7 (Eng. Abstr.) **(Fre)**

[Polypoid ulcerating endocarditis aortalis caused by Streptococcus viridans with perforation of the right atrium. Pathology and clinical aspects of 2 autopsy cases] Poremba C, et al. **Pathologe** 1996 Sep;17(5):391–5 (Eng. Abstr.) **(Ger)**

[Double cardiac fibroma in a newborn infant] Aliperta A, et al. **Minerva Cardioangiol** 1996 Dec;44(12):623–9 (Eng. Abstr.) **(Ita)**

[Cardiac myxoma in the elderly. Clinical study] Pentimone F, et al. **Minerva Cardioangiol** 1997 Jan–Feb;45(1–2):15–20 (Eng. Abstr.) **(Ita)**

[A successful removal of T4 lung cancer with its left atrial extension using cardiopulmonary bypass] Yamamoto M, et al. **Kyobu Geka** 1997 Feb;50(2):110–3 (Eng. Abstr.) **(Jpn)**

[A case of left ventricular myxoma] Hariya A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):2087–90 (Eng. Abstr.) **(Jpn)**

[Intravascular invasion of a thymoma from the thymic vein to the right atrium--a case report] Sato S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):998–1002 (Eng. Abstr.) **(Jpn)**

[Diagnosis by echocardiography of a case of myxoma in the left ventricle] García Angleu F, et al. **An Esp Pediatr** 1996 Oct;45(4):415–6 **(Spa)**

[Primary cardiac lymphoma: presentation of a case and review of the literature] Alvarez J, et al. **Rev Esp Cardiol** 1997 Jun;50(6):444–7 (Eng. Abstr.) **(Spa)**

[Cardiac myxoma. Anatomo-clinical and immunohistochemical study of 13 cases] Rey Sanjurjo JL, et al. **Rev Esp Cardiol** 1996 Oct;49(10):741–6 (Eng. Abstr.) **(Spa)**

[A rare case of rhabdomyosarcoma of the heart] Kysil'ova VF. **Lik Sprava** 1996 Jan–Feb;(1–2):161–4 (8 ref.) **(Ukr)**

PHYSIOPATHOLOGY

Regulation of sodium current development in cultured atrial tumor myocytes (AT-1 cells). Yang T, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H541–7

The relationship between functional class, pulmonary artery pressure and size in left atrial myxoma. Nakano T, et al. **Cardiovasc Surg** 1996 Jun;4(3):320–3

Electrophysiologic study and radiofrequency ablation in patients with intracardiac tumors and accessory pathways: is the tumor the pathway? Van Hare GF, et al. **J Cardiovasc Electrophysiol** 1996 Dec;7(12):1204–10

Clofilium-induced block of delayed rectifier type K+ current in atrial tumor cells (AT-1 cells). Bhattacharyya ML, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):301–7

Multiple intracardiac tumors: spontaneous prenatal recovery of fetal bradyarrhythmia. Cha'ban FK, et al. **Ultrasound Obstet Gynecol** 1996 Aug;8(2):120–2

RADIOGRAPHY

Coronary arteriographic and pathological findings in a case of primary leiomyosarcoma of the heart. Davis GK, et al. **Int J Cardiol** 1997 May 23;59(3):313–6

Pericardial sarcoma. Hagspiel KD, et al. **J Belge Radiol** 1996 Dec;79(6):269

Cardiac angiomyolipoma: radiologic and pathologic correlation. Tsai CC, et al. **J Formos Med Assoc** 1997 Aug; 96(8):653–6

Ultrafast computed tomography diagnosis of an epicardial lipoma in the pericardial sac: the split pericardium appearance. Hayashi H, et al. **J Thorac Imaging** 1996 Spring;11(2):161–2

[Arrhythmia and dyspnea. Moderately differentiated leiomyosarcoma] Kauczor HU, et al. **Radiologe** 1996 Feb; 36(2):169–71 **(Ger)**

RADIONUCLIDE IMAGING

[Myocardial metastasis in the right ventricle from uterine cervical carcinoma with high 67Ga-citrate accumulation: a case report] Ando K, et al. **Kaku Igaku** 1996 Sep; 33(9):1011–4 (Eng. Abstr.) **(Jpn)**

SECONDARY

Isolated cardiac metastasis of adrenal carcinoma: transesophageal echocardiographic features. Bilge A, et al. **Am Heart J** 1996 Nov;132(5):1066–8

Recurrent cervical squamous cell carcinoma presenting with cardiac tamponade [letter; comment] Lam KY. **Am J Cardiovasc Pathol** 1995;5(1):95. Comment on: Am J Cardiovasc Pathol 1992;4(1):69–72.

Metastatic adenocarcinoma involving a mesothelial/monocytic incidental cardiac excrescence (cardiac MICE). Argani P, et al. **Am J Surg Pathol** 1997 Aug;21(8):970–4

Right atrial metastatic melanoma [letter; comment] Bortolotti U. **Ann Thorac Surg** 1997 Jan;63(1):293. Comment on: Ann Thorac Surg 1996 Apr;61(4):1255–7.

Acute vascular embolus resulting from metastatic endocardial involvement with synovial sarcoma: report of a case and review of the literature. Khoo V, et al. **Australas Radiol** 1997 Feb;41(1):49–52 (71 ref.)

Cardiac metastasis from primary cervical squamous cell carcinoma: three case reports and a review of the literature. Batchelor WB, et al. **Can J Cardiol** 1997 Aug;13(8):767–70

Role of transesophageal echocardiography in the management of metastatic tumors invading the left atrium. Lee TM, et al. **Cardiology** 1997 Mar–Apr;88(2):214–7

Massive cardiac involvement by malignant lymphoma. Lynch M, et al. **Cardiology** 1996 Nov–Dec;87(6):566–8

Metastatic colonic carcinoma with intracavitary right ventricular outflow tract obstruction and cardiac tamponade: a case report. Chu PH, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):264–7

A 60-year-old man with a malignant tumor of the upper airway and unexplained respiratory failure. Ewald FW Jr, et al. **Chest** 1997 Jan;111(1):239–41

Images in cardiovascular medicine. Carcinoid heart disease. Gaos CM, et al. **Circulation** 1997 Mar 4;95(5):1346

Images in cardiovascular medicine: complete heart block. Reisinger J, et al. **Circulation** 1997 Aug 19;96(4):1364

Intracardiac metastases from neuroendocrine tumours. Drake WM, et al. **Clin Endocrinol (Oxf)** 1997 Apr;46(4):517–22

Extended operation for non-small cell lung cancer invading great vessels and left atrium. Fukuse T, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):664–9

Resection of hypernephromas with vena caval or right atrial tumor extension using extracorporeal circulation and deep hypothermic circulatory arrest: a multidisciplinary approach. Welz A, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):127–32

Carcinoma of the uterine cervix with myocardial metastasis. Ando K, et al. **Gynecol Oncol** 1997 Apr;65(1):169–72

Cardiac metastasis of an esthesioneuroblastoma. Chatterjee T, et al. **Heart** 1997 Jan;77(1):82–3

Right ventricular outflow tract obstruction by cardiac metastasis as the first manifestation of follicular thyroid carcinoma. Kasprzak JD, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):733–5

Metastatic mucinous adenocarcinoma of the heart. Arzouman DA, et al. **J Card Surg** 1997 Jan–Feb;12(1):49–50

Left atrial metastasis of a large cell carcinoma of the lung in an asymptomatic patient: transesophageal echocardiographic evaluation. Capdeville M, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):492–4

Experimental animal model of hematogenous cardiac metastasis and neoplastic cardiac tamponade. Shioda T, et al. **J Surg Oncol** 1997 Feb;64(2):122–6

Transitional cell carcinoma and right ventricular obstruction. Kemp W, et al. **J Urol** 1997 Oct;158(4):1522–3

Intrapericardial administration of cisplatin in treatment of metastatic pericardial involvement in adenocarcinoma of the lung. Tomkowski WZ, et al. **Monaldi Arch Chest Dis** 1997 Jun;52(3):221–4

Recurrent ovarian tumor with low malignant potential and cardiac metastasis. Basil JB, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):854–6

Simulation of right atrial cardiac myxoma by silent hepatocellular carcinoma. Giacalone A, et al. **Pathol Res Pract** 1996 Dec;192(12):1270–3; discussion 1274

Metastasizing uterine leiomyoma. A case with cardiac and pulmonary metastasis. Takemura G, et al. **Pathol Res Pract** 1996 Jun;192(6):622–9; discussion 630–3

Nonvalvular myocardial involvement in metastatic carcinoid disease. Davis G, et al. **Postgrad Med J** 1996 Dec; 72(854):751–2

Severe refractory congestive cardiac failure in an elderly man. O'Neill B, et al. **Postgrad Med J** 1997 May; 73(859):315–6

Meningeal hemangiopericytoma metastatic to the heart. Masui T, et al. **Radiat Med** 1996 Mar–Apr;14(2):91–4

Cardiac metastasis of an epitheloid leiomyoblastoma of the lung. Künzli A, et al. **Respiration** 1997;64(2):182–6

[Cardiac metastasis of melanoma disclosed by tamponade] Legoux B, et al. **Ann Dermatol Venereol** 1996; 123(6–7):393–4 (Eng. Abstr.) **(Fre)**

[Intravenous leiomyomatosis of uterine origin with cardiac extension. A case report and review of the literature] Tribondeau P, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(2):187–92 (33 ref.) (Eng. Abstr.) **(Fre)**

[Myxoid liposarcoma with pericardial metastasis] Wilhelmi U, et al. **Rontgenpraxis** 1997 May;50(5):119–21 **(Ger)**

[Cardiac metastasis of Grawitz tumor: transesophageal monitoring of the effectiveness of antineoplastic therapy] Mobilia G, et al. **Cardiologia** 1997 Aug;42(8):863–6 (Eng. Abstr.) **(Ita)**

[The thickening of the intraventricular septum in a 32-year-old woman with normal electrocardiogram] Takenaka K. **J Cardiol** 1996 Nov;28(5):295–6 **(Jpn)**

[Myocardial metastasis in the right ventricle from uterine cervical carcinoma with high 67Ga-citrate accumulation: a case report] Ando K, et al. **Kaku Igaku** 1996 Sep; 33(9):1011–4 (Eng. Abstr.) **(Jpn)**

[Metastatic tumor to the heart or pericardium] Mizuno S. **Ryoikibetsu Shokogun Shirizu** 1996;(14):282–5 (10 ref.) **(Jpn)**

[Cardiac metastases from a colonic tumor] Teixeira H, et al. **Acta Med Port** 1997 Apr;10(4):331–4 (11 ref.) (Eng. Abstr.) **(Por)**

[Metastatic cardiac tamponade in a patient with papillary carcinoma of the thyroid (letter)] Puigfel M, et al. **Med Clin (Barc)** 1996 Jun 29;107(5):197–8 **(Spa)**

[Tricuspid and pulmonary valve in a case of carcinoid syndrome] Alegret JM, et al. **Rev Esp Cardiol** 1997 Jul; 50(7):532–4 (Eng. Abstr.) **(Spa)**

[Intravenous leiomyomatosis with cardiac extension] Ruiz-Nodar JM, et al. **Rev Esp Cardiol** 1997 Jun; 50(6):451–4 (Eng. Abstr.) **(Spa)**

SECRETION

Pericardial mesothelioma secreting thrombomodulin. Okura Y, et al. **Am Heart J** 1996 Dec;132(6):1309–11

SURGERY

Brain metastasis from myxofibrosarcoma of the heart. Kim DG, et al. **Acta Neurochir (Wien)** 1997;139(1):88–9

Cardiac myxoma: 40 years' experience in 63 patients. Bjessmo S, et al. **Ann Thorac Surg** 1997 Mar;63(3):697–700

Clinical presentation and treatment options for mitral valve myxoma. Chakfé N, et al. **Ann Thorac Surg** 1997 Sep; 64(3):872–7 (37 ref.)

Osteogenic sarcoma of the left atrium. Dan S, et al. **Ann Thorac Surg** 1997 Jun;63(6):1766–8

Cardiac papillary fibroelastomas: rationale for excision. Minatoya K, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1519–21

Resection of left ventricular tumor using videocardioscopy and echocardiography. Nease B, et al. **Ann Thorac Surg** 1997 Mar;63(3):841–3

Surgical management of intrapericardial teratoma diagnosed in utero. Paw PT, et al. **Ann Thorac Surg** 1997 Aug; 64(2):552–4

Modified biatrial approach for the surgical excision of left atrial myxomas. St Rammos K. **Ann Thorac Surg** 1997 Jul; 64(1):274–5

Surgical treatment of cardiac myxomas: a 20-year follow-up. Lukács L, et al. **Cardiovasc Surg** 1997 Apr;5(2):225–8

Leiomyosarcoma of the left atrium: a case report. Kuo CS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Feb; 59(2):136–40 (18 ref.)

Multiple recurrence of a "sporadic" (non-familial) cardiac myxoma. Aroca A, et al. **Eur J Cardiothorac Surg** 1996;

10(10):919–21
Intrapericardial paraganglioma. Casanova J, et al. **Eur J Cardiothorac Surg** 1996;10(4):287–9
Intramural right atrial myocardial hemangioma treated by emergency surgery. Hangler HB, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):782–4
Lipomatous hypertrophy of the interatrial septum: indication for surgery? Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):785–7
Successful one-stage complete removal of an entire intravenous leiomyomatosis in the heart, vena cava, and uterus. Arinami Y, et al. **Gynecol Oncol** 1997 Mar; 64(3):547–50
Primary cardiac leiomyosarcoma: seven-year survival with combined surgical and adjuvant therapy. Pessotto R, et al. **Int J Cardiol** 1997 Jun 27;60(1):91–4 (15 ref.)
Metastatic mucinous adenocarcinoma of the heart. Arzouman DA, et al. **J Card Surg** 1997 Jan–Feb;12(1):49–50
Inverted T-shaped biatral incision for large left atrial myxoma. Morishita K, et al. **J Card Surg** 1997 Mar–Apr; 12(2):112–5
Video-assisted cardioscopic resection of recurrent left ventricular myxoma. Li JY, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1673–4
Primary cardiac chondrosarcoma—a case report. Miwa S, et al. **Jpn Circ J** 1997 Sep;61(9):795–7
Cardiac papillary fibroelastoma excision combined with reconstructive surgery. Tkebuchava T, et al. **Jpn Heart J** 1997 May;38(3):457–62
Giant left atrial myxoma: case report. Aroca A, et al. **Panminerva Med** 1995 Sep;37(3):159–61
Right ventricular myxoma: report of a case. Kinugasa S, et al. **Surg Today** 1997;27(3):269–71
Papillary fibroelastoma of the tricuspid valve in association with an atrial septal defect: report of a case. Watanabe T, et al. **Surg Today** 1996;26(10):831–3
Right ventricular bypass for palliation of cardiac sarcoma. Calderón M, et al. **Tex Heart Inst J** 1996;23(2):178–9
Surgical management of left ventricular myxoma with embolization to the right coronary artery. Saldanha R, et al. **Tex Heart Inst J** 1996;23(3):230–2
Surgical treatment of left-atrial myxoma in Carney's complex. Akbaş H, et al. **Thorac Cardiovasc Surg** 1997 Jun; 45(3):148–50
[An unusual site of cardiac myxoma. Apropos of a case in an 11-year old child] Bouvaist H, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):729–33 (Eng. Abstr.) **(Fre)**
[Myxoma of the left atrium, Clinical outcome of 100 operated patients] Loire R. **Arch Mal Coeur Vaiss** 1996 Sep; 89(9):1119–25 (26 ref.) (Eng. Abstr.) **(Fre)**
[Long-term results of surgical treatment of cardiac myxomas] Lukács L, et al. **Orv Hetil** 1996 Jun 2;137(22):1187–90 (Eng. Abstr.) **(Hun)**
[The surgical treatment of a rare primary cardiac tumor: hemangioma. A report of 2 cases] Galli R, et al. **Cardiologia** 1997 Jan;42(1):89–93 (7 ref.) (Eng. Abstr.) **(Ita)**
[The surgical approach to cardiac tumors] Mazzucco A, et al. **Cardiologia** 1996 Nov;41(11):1045–52 (27 ref.) **(Ita)**
[Combined superior-transseptal approach to left atrial myxoma] Akasu I, et al. **Kyobu Geka** 1997 Jun;50(6):492–4 (Eng. Abstr.) **(Jpn)**
[Surgical treatment of malignant hemangioendothelioma originated from the right atrium: a case report] Ichikawa H, et al. **Kyobu Geka** 1997 Jan;50(1):67–70 (Eng. Abstr.) **(Jpn)**
[A case of left ventricular myxoma] Ishikawa K, et al. **Kyobu Geka** 1996 Nov;49(12):1014–7 (Eng. Abstr.) **(Jpn)**
[A case of surgically treated left atrial myxoma early after cerebral embolism] Ota T, et al. **Kyobu Geka** 1996 Dec; 49(13):1094–6 (Eng. Abstr.) **(Jpn)**
[Surgical treatment of T4 lung cancer: combined resection of lung and heart or great vessels] Yamato Y, et al. **Kyobu Geka** 1997 Feb;50(2):114–9 (Eng. Abstr.) **(Jpn)**
[Anesthetic management using transesophageal echocardiography during removal of a cardiac myxoma] Nomura T, et al. **Masui** 1997 May;46(5):684–8 (Eng. Abstr.) **(Jpn)**
[A case report of papillary fibroelastoma of the aortic valve] Hirota J, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):705–8 (Eng. Abstr.) **(Jpn)**
[A surgical case report of ossified left atrial myxoma] Ishikawa T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1796–9 (Eng. Abstr.) **(Jpn)**
[A case of right ventricular myxoma] Ishikawa T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):645–8 (15 ref.) (Eng. Abstr.) **(Jpn)**
[A case report of surgical treatment for left ventricular papillary fibroelastoma] Kawada M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1159–62 (12 ref.) (Eng. Abstr.) **(Jpn)**
[Surgical treatment for primary cardiac malignant lymphoma] Kimura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):607–10 (Eng. Abstr.) **(Jpn)**
[A case of primary anterior mediastinal liposarcoma with a heterotopic mass in the pericardium of the same histology] Kiyama H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2191–5 (14 ref.) (Eng. Abstr.) **(Jpn)**
[Diagnosis and treatment of cardiac tumor] Akiyama K, et al. **Rinsho Kyobu Geka** 1988 Feb;8(1):67–70 (Eng. Abstr.) **(Jpn)**
[Surgical treatment of left atrial myxoma] Woś S, et al. **Pol Tyg Lek** 1996 Mar;51(10–13):156–8 **(Pol)**
[The surgical treatment of multiple myomas of the left heart] Tsukerman GI, et al. **Khirurgiia (Mosk)** 1996;(6):40–4 (Eng. Abstr.) **(Rus)**
[Heart angiosarcoma and heart transplantation. Report of a case] Almenar L, et al. **Rev Esp Cardiol** 1996 Jul; 49(7):539–41 (Eng. Abstr.) **(Spa)**
[Incessant ventricular tachycardia and myocardial hamartomas in childhood: long-term remission after surgical treatment] Benito Bartolomé F, et al. **Rev Esp Cardiol** 1997 Mar;50(3):205–7 (Eng. Abstr.) **(Spa)**

THERAPY

Primary cardiac angiosarcoma: 53 months' survival after multidisciplinary therapy. Nakamichi T, et al. **Ann Thorac Surg** 1997 Apr;63(4):1160–1
Prenatal therapy for pericardial teratomas. Bruch SW, et al. **J Pediatr Surg** 1997 Jul;32(7):1113–5
Primary sarcoma of pulmonary artery and valve: multimodality treatment by chemotherapy and homograft replacement. Zerkowski HR, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1122–4 (12 ref.)
Massive intra-atrial Wilms' tumor: a treatment dilemma [clinical conference] Matloub YH, et al. **Med Pediatr Oncol** 1997 Feb;28(2):149–53

ULTRASONOGRAPHY

Diagnosis, localization and evaluation of malignancy of heart and mediastinal tumors by conventional and transesophageal echocardiography. Geibel A, et al. **Acta Cardiol** 1996;51(5):395–408
Separate myxomas in left atrium and right ventricle. Bashour TT, et al. **Am Heart J** 1996 Dec;132(6):1295–8
Isolated cardiac metastasis of adrenal carcinoma: transesophageal echocardiographic features. Bilge A, et al. **Am Heart J** 1996 Nov;132(5):1066–8
Echocardiography in the evaluation of cardiac pheochromocytoma. Mandak JS, et al. **Am Heart J** 1996 Nov;132(5):1063–6
Right-sided cardiac tumors detected by transesophageal echocardiography and its usefulness in differentiating the benign from the malignant ones. Lynch M, et al. **Am J Cardiol** 1997 Mar 15;79(6):781–4
Echocardiographic features of papillary fibroelastoma and their consequences and management. Yee HC, et al. **Am J Cardiol** 1997 Sep 15;80(6):811–4
Left atrial myxoma in a preschool child. Pathi VL, et al. **Ann Thorac Surg** 1997 Feb;63(2):550–2
Papillary fibroelastoma of the tricuspid valve. Bentley MJ, et al. **Can J Cardiol** 1997 Aug;13(8):773–4
Right ventricular nerve sheath tumour and patent foramen ovale presenting with transient ischemic attack. Sharif MN, et al. **Can J Cardiol** 1996 Sep;12(9):789–91
Massive cardiac involvement by malignant lymphoma. Lynch M, et al. **Cardiology** 1996 Nov–Dec;87(6):566–8
Images in cardiovascular medicine. Carcinoid heart disease. Gaos CM, et al. **Circulation** 1997 Mar 4;95(5):1346
Echocardiographic diagnosis of papillary fibroelastoma of the mitral and tricuspid valve apparatus. Lund GK, et al. **Clin Cardiol** 1997 Feb;20(2):175–7
Large left atrial thrombus mimicking atrial myxoma: successful treatment with anticoagulant therapy [letter] Morelli S, et al. **Eur Heart J** 1996 Aug;17(8):1290
Multiplane transoesophageal echocardiography detection of papillary fibroelastomas of the aortic valve causing a stroke [letter] Shelh M. **Eur Heart J** 1997 Apr;18(4):702–3
Acute bicaval obstruction as a result of intracapsular haemorrhage in a right atrial myxoma: report of a case. Walker AH, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):779–81
Prenatal management of fetal cardiac tumors. Two case reports. Itoh S, et al. **Fetal Diagn Ther** 1996 Sep–Oct; 11(5):361–5
Multiple cardiac rhabdomyomas: tuberous sclerosis or not? Uzun O, et al. **Heart** 1997 Apr;77(4):388
Prenatal diagnosis of cardiac rhabdomyoma. Suresh S, et al. **Indian Heart J** 1995 Sep–Oct;47(5):506–8
Rapid growth of a left atrial myxoma. Serial two-dimensional echocardiographic observation over eighteen months. Iga K, et al. **Int J Cardiol** 1997 Aug 29;61(1):85–7
Unusual presentation of an atrial septal aneurysm with left atrial myxoma: a case report. Kolvekar SK, et al. **Int J Cardiol** 1997 Apr 18;59(2):197–8
Dynamic 3-D-echo in the preoperative assessment of left atrial myxoma in a 51-year-old male. Melzer C, et al. **Int J Cardiol** 1997 Apr 18;59(2):167–9
An ambiguous case of chordal rupture. erroneous diagnosis of echocardiography. case report. Vonk AB, et al. **Int J Cardiol** 1995 Dec;52(3):269–72
Cardiac angiosarcoma. Ohtahara A, et al. **Intern Med** 1996 Oct;35(10):795–8 (7 ref.)
Fetal echocardiography for neonatal cardiac tumors [letter; comment] Corno A. **J Am Coll Cardiol** 1996 Oct;28(4):1080 . Comment on: J Am Coll Cardiol 1995 Aug;26(2):516–20.
Papillary fibroelastoma: echocardiographic characteristics for diagnosis and pathologic correlation. Klarich KW, et al. **J Am Coll Cardiol** 1997 Sep;30(3):784–90
Echocardiographic evaluation of papillary fibroelastoma: a case report and review of the literature. Hicks KA, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):353–60 (64 ref.)
Cardiac cavernous hemangioma mimicking pericardial cyst: atypical echocardiographic appearance of a rare cardiac tumor. Landolphi DR, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):579–81
Atrial and pulmonary mass: intracardiac thrombus mimicking myxoma on multiplane transesophageal echocardiography. Robinson NM, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb; 10(1):93–6
Angiosarcomas of the interatrial septum mimicking atrial myxomas. Rodrigues AG, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):209–12 (10 ref.)
Intraoperative evaluation of a bicuspid aortic valve. Lazar JM, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):253–5
Intrapericardial teratoma in a twin fetus: diagnosis and management. Sklansky M, et al. **Obstet Gynecol** 1997 May; 89(5 Pt 2):807–9
Giant left atrial myxoma: case report. Aroca A, et al. **Panminerva Med** 1995 Sep;37(3):159–61
Right-ventricular fibroma presenting as tricuspid stenosis—a case report. Bapat VN, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):152–4
Right ventricular myxoma mimicking recurrent pulmonary embolism after primary ligament reconstruction. Zuber M, et al. **Vasa** 1997;26(1):49–51
[Right atrial, non-hereditary myxoma as differential diagnosis in increasing dyspnea. Echocardiography diagnosis (clinical conference)] Glattki GP, et al. **Med Klin** 1996 Aug 15; 91(8):509–14 **(Ger)**
[Primary right atrial hemangiosarcoma manifesting as cardiac tamponade: a case report with transesophageal echocardiography] Kihara H, et al. **J Cardiol** 1996 Jun; 27(6):329–33 (Eng. Abstr.) **(Jpn)**
[The thickening of the intraventricular septum in a 32-year-old woman with normal electrocardiogram] Takenaka K. **J Cardiol** 1996 Nov;28(5):295–6 **(Jpn)**
[Intraoperative TEE revealed the mitral valve vegetation and the operation was cancelled] Narumi Y, et al. **Masui** 1996 Jun;45(6):760–2 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Primitive neuroectodermal tumor of the myocardium: a case report, review of the literature, immunohistochemical, and ultrastructural study. Charney DA, et al. **Hum Pathol** 1996 Dec;27(12):1365–9 (26 ref.)
Histochemical and ultrastructural characterization of primary cardiac chondrosarcoma. Albers TM, et al. **Vet Pathol** 1997 Mar;34(2):150–1

VETERINARY

A case of metastasizing ovarian granulosa cell tumour in the myocardium of a bitch. Sabočanec R, et al. **Acta Vet Hung** 1996;44(2):189–94
Malignant aortic body tumor in a Holstein cow. Kumamoto K, et al. **J Vet Med Sci** 1997 May;59(5):383–5
Histochemical and ultrastructural characterization of primary cardiac chondrosarcoma. Albers TM, et al. **Vet Pathol** 1997 Mar;34(2):150–1

HEART RATE

Shock index as a marker for significant injury in trauma patients. King RW, et al. **Acad Emerg Med** 1996 Nov; 3(11):1041–5
Magnesium—a profibrillatory or antifibrillatory drug depending on plasma concentration, heart rate and myocardial perfusion. Aupetit JF, et al. **Acta Anaesthesiol Scand** 1997 Apr;41(4):516–23
Heart rate variability in diabetic and non-diabetic renal transplant patients. Kirvela M, et al. **Acta Anaesthesiol Scand** 1996 Aug;40(7):804–8
A 90-year old patient with atrial septal defect and sinus rhythm. Nomura M, et al. **Acta Cardiol** 1996;51(4):377–80 (10 ref.)
Inappropriate rate response in a VVI-R pacemaker. Vanderheyden M, et al. **Acta Cardiol** 1996;51(6):545–50
Abnormal heart rate variability reflecting autonomic dysfunction in brainstem infarction. Korpelainen JT, et al. **Acta Neurol Scand** 1996 Nov;94(5):337–42
Heart rate variability, norepinephrine and ECG changes in subarachnoid hemorrhage patients. Svigelj V, et al. **Acta Neurol Scand** 1996 Aug;94(2):120–6
Beat-to-beat blood pressure and heart rate responses to active standing in Japanese children. Yamaguchi H, et al. **Acta Paediatr** 1996 May;85(5):577–83
Characterization and natural course of cardiac autonomic nervous dysfunction in HIV-infected patients. Becker K, et al. **AIDS** 1997 May;11(6):751–7
Heart rate variability in patients with hypertrophic cardiomyopathy: association with clinical and echocardiographic features. Bonaduce D, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):165–72
Low-energy intracardiac shocks during atrial fibrillation: effects on cardiac rhythm. Gjorgov N, et al. **Am Heart J** 1997 Jan;133(1):101–7
Dependency of premature ventricular contractions on heart rate. Pitzalis MV, et al. **Am Heart J** 1997 Feb;133(2):153–61
Validity of a heart rate monitor during work in the laboratory and on the Space Shuttle. Moore AD Jr, et al. **Am Ind Hyg Assoc J** 1997 Apr;58(4):299–301
Relation of ultra-low frequency heart rate variability to the

clinical course of chronic aortic regurgitation. Freed LA, et al. **Am J Cardiol** 1997 Jun 1;79(11):1482–7

Relation of direct assessment of cardiac autonomic function with metaiodobenzylguanidine imaging to heart rate variability in diabetes mellitus. Freeman MR, et al. **Am J Cardiol** 1997 Jul 15;80(2):247–50

Increase in the delta ST/delta heart rate (HR) index: a new predictor of restenosis after successful percutaneous transluminal coronary angioplasty. Hamasaki S, et al. **Am J Cardiol** 1996 Nov 1;78(9):990–5

Spectral analysis of heart rate variability: the impact of R–wave measurement error [letter; comment] Hilton M, et al. **Am J Cardiol** 1997 Mar 15;79(6):844–5. Comment on: Am J Cardiol 1996 Jul 1;78(1):118–20.

Ability of heart rate variability to predict prognosis in patients with advanced congestive heart failure. Jiang W, et al. **Am J Cardiol** 1997 Sep 15;80(6):808–11

Rhythm annotation and interobserver reproducibility of measures of heart rate variability. Kroll DJ, et al. **Am J Cardiol** 1996 Nov 1;78(9):1055–7

Usefulness of the addition of heart rate variability to Holter monitoring in predicting in–hospital cardiac events in patients with unstable angina pectoris. Lanza GA, et al. **Am J Cardiol** 1997 Aug 1;80(3):263–7

Reproducibility of the ST–segment depression/heart rate analysis of the exercise electrocardiographic test in asymptomatic middle–aged population. Lehtinen R, et al. **Am J Cardiol** 1997 May 15;79(10):1414–6

Accurate detection of coronary artery disease by integrated analysis of the ST–segment depression/heart rate patterns during the exercise and recovery phases of the exercise electrocardiography test. Lehtinen R, et al. **Am J Cardiol** 1996 Nov 1;78(9):1002–6

Decreased post–myocardial infarction heart rate variability and cardiac denervation assessed by metaiodobenzylguanidine scintigraphy. Livanis EG, et al. **Am J Cardiol** 1997 Feb 15;79(4):482–6

Dynamic analysis of heart rate may predict subsequent ventricular tachycardia after myocardial infarction. Mäkikallio TH, et al. **Am J Cardiol** 1997 Sep 15; 80(6):779–83

Depressed heart rate variability as an independent predictor of death in chronic congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Ponikowski P, et al. **Am J Cardiol** 1997 Jun 15;79(12):1645–50

Noninvasive risk modeling after myocardial infarction. Reinhardt L, et al. **Am J Cardiol** 1996 Sep 15;78(6):627–32

Heart rate variability is independent of age, gender, and race in congestive heart failure with a recent acute exacerbation. Stein PK, et al. **Am J Cardiol** 1997 Feb 15;79(4):511–2

Differing effects of age on heart rate variability in men and women. Stein PK, et al. **Am J Cardiol** 1997 Aug 1; 80(3):302–5

Effect of endoscopic transthoracic sympathicotomy on heart rate variability in severe angina pectoris. Tygesen H, et al. **Am J Cardiol** 1997 Jun 1;79(11):1447–52

Effect of a music intervention on noise annoyance, heart rate, and blood pressure in cardiac surgery patients. Byers JF, et al. **Am J Crit Care** 1997 May;6(3):183–91

Six–minute walk test and heart rate variability: lack of association in advanced stages of heart failure. Woo MA, et al. **Am J Crit Care** 1997 Sep;6(5):348–54

Heart rate variability from short electrocardiographic recordings predicts mortality from all causes in middle–aged and elderly men. The Zutphen Study. Dekker JM, et al. **Am J Epidemiol** 1997 May 15;145(10):899–908

Cardiac autonomic function and incident coronary heart disease: a population–based case–cohort study. The ARIC Study. Atherosclerosis Risk in Communities Study. Liao D, et al. **Am J Epidemiol** 1997 Apr 15;145(8):696–706

Enhanced sympathetic nervous system activity. The linchpin between insulin resistance, hyperinsulinemia, and heart rate. Facchini FS, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1013–7

Neurocardiac response to esophageal electric stimulation in humans: effects of varying stimulation frequencies. Bajwa A, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R896–901

Preoptic recess alpha–adrenoceptors control cardiovascular responses to hyperosmolality. Bealer SL. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1283–9

Coarse graining spectral analysis of HR and BP variability in patients with autonomic failure. Blaber AP, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1555–64

Brown fat thermogenesis and cardiac rate regulation during cold challenge in infant rats. Blumberg MS, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1308–13

Area postrema–induced inhibition of the exercise pressor reflex. Bonigut S, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1650–5

Altered heart rate baroreflex during pregnancy: role of sympathetic and parasympathetic nervous systems. Brooks VL, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R960–6

Conscious obese rats have impaired reflex bradycardia and enhanced norepinephrine sensitivity. Buñag RD, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R654–60

Elevated heart rate variability in physically active postmenopausal women: a cardioprotective effect? Davy KP, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H455–60

Modeling of arterial and cardiopulmonary baroreflex control of heart rate. Desai TH, et al. **Am J Physiol** 1997 May; 272(5 Pt 2):H2343–52

Augmented baroreflex heart rate gain after moderate–intensity, dynamic exercise. Halliwill JR, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):R420–6

Effect of phasic vagal stimulation and atrial pacing site on atrioventricular conduction time. Igel DA, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2289–98

Age–related alterations in the fractal scaling of cardiac interbeat interval dynamics. Iyengar N, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1078–84

Influence of forced respiration on nonlinear dynamics in heart rate variability. Kanters JK, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 2):R1149–54

Dynamic vagosympathetic interaction augments heart rate response irrespective of stimulation patterns. Kawada T, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2180–7

Heart rate variability during artificial ventilation and apnea in brain–damaged rabbits. Kawamoto M, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H410–6

Power spectral analysis for autonomic influences in heart rate and blood pressure variability in fetal lambs. Kimura Y, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1333–9

Four weeks of cycle training increases basal production of nitric oxide from the forearm. Kingwell BA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1070–7

Decreased heart rate variability in transgenic mice overexpressing atrial beta 1–adrenoceptors. Mansier P, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1465–72

Relationship between diabetic autonomic dysfunction and heart rate variability assessed by recurrence plot. Mestivier D, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1094–9

Force–frequency effect is a powerful determinant of myocardial contractility in the mouse. Palakodeti V, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1283–90

Glucose ingestion affects cardiac ANS in healthy subjects with different amounts of body fat. Paolisso G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):E471–8

Development of heart rate power spectra reveals neonatal peculiarities of cardiorespiratory control. Patzak A, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1025–32

Blood pressure variability responses to tilt are buffered by cardiac autonomic control. Sloan RP, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1427–31

Autonomic control of blood pressure and heart rate in obese hypertensive dogs. Truett AA, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R541–9

Transient outward current contributes to Wenckebach–like rhythms in isolated rabbit ventricular cells. Yehia AR, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H1–11

Recovery of heart rate variability profile in patients after coronary artery surgery. Komatsu T, et al. **Anesth Analg** 1997 Oct;85(4):713–8

Quantitative assessment of cardiovascular autonomic function in Guillain–Barre syndrome. Flachenecker P, et al. **Ann Neurol** 1997 Aug;42(2):171–9

Vagus nerve stimulation as a method to temporarily slow or arrest the heart. Matheny RG, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S28–9

Resting cardiovascular measures in patients with panic disorder and social phobia and health control subjects: relationship to habitual exercise frequency. Asmundson GJ, et al. **Anxiety** 1994;1(1):26–30

Time–dependent sensitization of heart rate and blood pressure over multiple laboratory sessions in elderly individuals with chemical odor intolerance. Bell IR, et al. **Arch Environ Health** 1997 Jan–Feb;52(1):6–17

Cerebral hemispheric lateralization in cardiac autonomic control. Yoon BW, et al. **Arch Neurol** 1997 Jun;54(6):741–4

Blood pressure and heart rate response during exercise in men and women in the USA and Russia lipid research clinics prevalence study. Shalnova S, et al. **Atherosclerosis** 1996 Apr 26;122(1):47–57

Heart rate response and perceived exertion during twenty consecutive karate sparring matches. Imamura H, et al. **Aust J Sci Med Sport** 1996 Dec;28(4):114–5

Heart rate biorhythm changes during the first three months of life. Ardura J, et al. **Biol Neonate** 1997;72(2):94–101

Haemoglobin is inversely related to plasma lactate and heart rate in the newborn piglet. Haaland K, et al. **Biol Neonate** 1996;69(5):350–6

Heart–rate variability in chronic traumatic brain injury. King ML, et al. **Brain Inj** 1997 Jun;11(6):445–53

Trigeminal autonomic pathways involved in nociception–induced reflex cardiovascular responses. Allen GV, et al. **Brain Res** 1997 Apr 18;754(1–2):269–78

Pressor and depressor sites are intermingled in the cingulate cortex of the rat. Fisk GD, et al. **Brain Res** 1997 Apr 18; 754(1–2):204–12

Influence of left ventricular hypertrophy on heart rate variability in hypertensive patients. Ryabykina GV, et al. **Bratisl Lek Listy** 1996 Sep;97(9):526–30

Aging and cardiovascular autonomic regulation [letter; comment] Török T, et al. **Can J Anaesth** 1997 Jun; 44(6):677–8. Comment on: Can J Anaesth 1996 Sep;43(9):972–4.

Pharmacologic control of heart rate in atrial fibrillation. Falk RH. **Cardiol Clin** 1996 Nov;14(4):521–36 (71 ref.)

The force–frequency relation in normal and failing heart. Faggiano P, et al. **Cardiologia** 1996 Dec;41(12):1155–64 (97 ref.)

Heart rate variability in patients with sleep–related breathing disorders. Bauer T, et al. **Cardiology** 1996 Nov–Dec; 87(6):492–6

Effects of physical training on heart rate variability in diabetic patients with various degrees of cardiovascular autonomic neuropathy. Howorka K, et al. **Cardiovasc Res** 1997 Apr;34(1):206–14

Cardiorespiratory responses to incremental exercise in patients with systemic sclerosis. Schwaiblmair M, et al. **Chest** 1996 Dec;110(6):1520–5

Effect of acupuncture on cardiopulmonary function. Lin JG, et al. **Chin Med J (Engl)** 1996 Jun;109(6):482–5

Exercise hemodynamic benefits of rate adaptive ventricular pacing. Ma J, et al. **Chin Med J (Engl)** 1996 Jun; 109(6):459–62

The effect of thrombolytic therapy on short– and long–term cardiac autonomic activity in patients with acute myocardial infarction. Chen CK, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec;58(6):392–9

Role of an electrogenic Na(+)–HCO3– cotransport in determining myocardial pHi after an increase in heart rate. Camilión de Hurtado MC, et al. **Circ Res** 1996 Oct; 79(4):698–704

Mitochondrial response to heart rate steps in isolated rabbit heart is slowed after myocardial stunning. Zuurbier CJ, et al. **Circ Res** 1997 Jul;81(1):69–75

Predicting survival in heart failure case and control subjects by use of fully automated methods for deriving nonlinear and conventional indices of heart rate dynamics. Ho KK, et al. **Circulation** 1997 Aug 5;96(3):842–8

Contribution to heart rate variability by mechanoelectric feedback. Stretch of the sinoatrial node reduces heart rate variability. Horner SM, et al. **Circulation** 1996 Oct 1; 94(7):1762–7

Factors affecting rhythm after the maze procedure for atrial fibrillation. Kawaguchi AT, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II139–42

Association of cigarette smoking with chronotropic incompetence and prognosis in the Framingham Heart Study. Lauer MS, et al. **Circulation** 1997 Aug 5; 96(3):897–903

Producing consistent estimates of the power spectral density of NN sequences [letter] Malik M. **Circulation** 1997 Sep 16;96(6):2082–3

Prediction of head–up tilt test result by analysis of early heart rate variations. Mallat Z, et al. **Circulation** 1997 Jul 15; 96(2):581–4

Mechanism of ventricular rate control after radiofrequency modification of atrioventricular conduction in patients with atrial fibrillation. Markowitz SM, et al. **Circulation** 1996 Dec 1;94(11):2856–64

Heart rate variability and Holter ST–segment changes after thrombolysis in acute myocardial infarction [letter; comment] Mickley H. **Circulation** 1997 Aug 5;96(3):1043–4 . Comment on: Circulation 1996 Apr 1;93(7):1388–95.

Task Force report on heart rate variability [letter; comment] Novak V, et al. **Circulation** 1997 Aug 5;96(3):1056–7. Comment on: Circulation 1996 Mar 1;93(5):1043–65.

Chronotropic response to exercise. Improved performance of ST–segment depression criteria after adjustment for heart rate reserve. Okin PM, et al. **Circulation** 1996 Dec 15;94(12):3226–31

Pathophysiology of transient myocardial ischemia in acute coronary syndromes. Characterization by continuous ST–segment monitoring. Patel DJ, et al. **Circulation** 1997 Mar 4;95(5):1185–92

Do high proinsulin and C–peptide levels play a role in autonomic nervous dysfunction?: Power spectral analysis in patients with non–insulin–dependent diabetes and nondiabetic subjects. Töyry JP, et al. **Circulation** 1997 Aug 19;96(4):1185–91

Impact of reduced heart rate variability on risk for cardiac events. The Framingham Heart Study. Tsuji H, et al. **Circulation** 1996 Dec 1;94(11):2850–5

Prognostic significance of heart rate variability in post–myocardial infarction patients in the fibrinolytic era. The GISSI–2 results. Gruppo Italiano per lo Studio della Sopravvivenza nell' Infarto Miocardico. Zuanetti G, et al. **Circulation** 1996 Aug 1;94(3):432–6

Non–invasive continuous arterial pressure, heart rate and stroke volume measurements during graded head–up tilt in normal man. Critchley LA, et al. **Clin Auton Res** 1997 Apr;7(2):97–101

Evaluation of heart rate changes: electrocardiographic versus photoplethysmographic methods. Low PA, et al. **Clin Auton Res** 1997 Apr;7(2):65–8

Effects of heart rate on coronary circulation and external mechanical efficiency in elderly hypertensive patients with left ventricular hypertrophy. Ishibashi Y, et al. **Clin Cardiol** 1996 Aug;19(8):620–30

The effect of atrial fibrillation and the ventricular rate control on exercise capacity. Ostermaier RH, et al. **Clin Cardiol** 1997 Jan;20(1):23–7

Heart rate variability as a measure of autonomic nervous system function in anorexia nervosa. Petretta M, et al. **Clin Cardiol** 1997 Mar;20(3):219–24

Post–exercise depression of baroreflex slowing of the heart in humans. Ulman LG, et al. **Clin Physiol** 1997 May; 17(3):299–309

Fractal component of variability of heart rate and systolic blood pressure in congestive heart failure. Butler GC, et al. **Clin Sci (Colch)** 1997 Jun;92(6):543–50

The exponential distribution applied to nonequidistantly sampled cardiovascular time series. Van Steenis HG, et al. **Comput Biomed Res** 1996 Jun;29(3):174–93

DSP implementation of wavelet transform for real time ECG

wave forms detection and heart rate analysis. Bahoura M, et al. **Comput Methods Programs Biomed** 1997 Jan; 52(1):35–44

A computer program for comprehensive ST–segment depression/heart rate analysis of the exercise ECG test. Lehtinen R, et al. **Comput Methods Programs Biomed** 1996 Jun;50(1):63–71

Detection of regularities in heart rate variations by linear and non–linear analysis: power spectrum versus approximate entropy. Sapoznikov D, et al. **Comput Methods Programs Biomed** 1995 Dec;48(3):201–9

Spectral analysis of systemic arterial pressure and heart rate signals as a prognostic tool for the prediction of patient outcome in the intensive care unit. Yien HW, et al. **Crit Care Med** 1997 Feb;25(2):258–66

Inhibition in boys with attention deficit hyperactivity disorder as indexed by heart rate change. Jennings JR, et al. **Dev Psychol** 1997 Mar;33(2):308–18

Autonomic dysfunction in non–insulin–dependent diabetes mellitus and fibrocalculous pancreatic diabetes in south India. Mohan V, et al. **Diabet Med** 1996 Dec;13(12):1038–43

Abnormal QTc intervals and autonomic dysfunction [letter; comment] Vardhan A, et al. **Diabet Med** 1996 Aug; 13(8):772–3. Comment on: Diabet Med 1995 Apr;12(4):302–6.

Hyperglycemia affects cardiovascular autonomic nerve function in normal subjects. Yeap BB, et al. **Diabetes Care** 1996 Aug;19(8):880–2

Smoking produces a smaller increase in heart rate in the natural smoking environment than in the laboratory. Mucha RF, et al. **Drug Alcohol Depend** 1996 Nov;42(3):209–15

Assessment of acute pain in preterm infants by evaluation of facial expression and frequency domain analysis of heart rate variability. Lindh V, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):131–42

Thermal and cardiorespiratory responses of horses to submaximal exercise under hot and humid conditions. Geor RJ, et al. **Equine Vet J Suppl** 1995 Nov;(20):125–32

Heart rate response and plasma lactate concentrations of horses competing in the cross–country phase of combined training events. White SL, et al. **Equine Vet J Suppl** 1995 Nov;(20):47–51

Heart rate response and plasma lactate concentrations of horses competing in the speed and endurance phase of 3–day combined training events. White SL, et al. **Equine Vet J Suppl** 1995 Nov;(20):52–6

Heart rate response to industrial work at different outdoor temperatures with or without temperature control system at the plant. Kristal–Boneh E, et al. **Ergonomics** 1997 Jul; 40(7):729–36

Spectral analysis of short term R–Tapex interval variability during sinus rhythm and fixed atrial rate. Lombardi F, et al. **Eur Heart J** 1996 May;17(5):769–78

Heart rate variability and inappropriate sinus tachycardia after catheter ablation of supraventricular tachycardia [see comments] Madrid AH, et al. **Eur Heart J** 1995 Nov; 16(11):1637–40. Comment in: Eur Heart J 1995 Nov;16(11):1459–61.

Mechanisms of angina pectoris in syndrome X assessed by myocardial perfusion dynamics and heart rate variability [see comments] Meeder JG, et al. **Eur Heart J** 1995 Nov; 16(11):1571–7. Comment in: Eur Heart J 1995 Nov;16(11):1455–6. Comment in: Eur Heart J 1996 Nov;17(11):1759–60.

Heart rate variability and inappropriate sinus tachycardia after high frequency ablation: sign of the injured autonomic nervous system? [comment] Weber H, et al. **Eur Heart J** 1995 Nov;16(11):1459–61. Comment on: Eur Heart J 1995 Nov;16(11):1637–40.

Effects of water and ambient air temperatures on human diving bradycardia. Schagatay E, et al. **Eur J Appl Physiol** 1996;73(1–2):1–6

Cardiovascular responses induced by dental treatment. Brand HS, et al. **Eur J Oral Sci** 1996 Jun;104(3):245–52 (89 ref.)

Cardiovascular consequences of fibreoptic bronchoscopy. Davies L, et al. **Eur Respir J** 1997 Mar;10(3):695–8

Circadian variations in blood pressure and heart rate in diabetes prone and resistant rat strains compared with spontaneously hypertensive rats. Berg S, et al. **Exp Clin Endocrinol Diabetes** 1997;105 Suppl 2:7–9

High speed detection of R–R intervals for universal Holter recordings. Sekioka K, et al. **Front Med Biol Eng** 1997; 8(2):139–56

Effect of heart rate on QT interval in children and adolescents. Balaji S, et al. **Heart** 1997 Feb;77(2):128–9

Heart rate variability: why do spectral analysis? Karemaker JM. **Heart** 1997 Feb;77(2):99–101

Sympathetic reinnervation and heart rate variability after cardiac transplantation. Lord SW, et al. **Heart** 1997 Jun; 77(6):532–8

QT interval dynamics and heart rate variability preceding a case of cardiac arrest. Singh JP, et al. **Heart** 1997 Apr; 77(4):375–7

Heart rate variability in idiopathic dilated cardiomyopathy: relation to disease severity and prognosis. Yi G, et al. **Heart** 1997 Feb;77(2):108–14

Heart rate affects the dependency of myocardial oxygen consumption on flow in goats. Van der Ploeg CP, et al. **Heart Vessels** 1995;10(5):258–65

Impaired cardiovascular autonomic response to passive tilting in cirrhosis with ascites. Laffi G, et al. **Hepatology** 1996 Nov;24(5):1063–7

Level of operator control and changes in heart rate variability during simulated flight maintenance. Tattersall AJ, et al. **Hum Factors** 1995 Dec;37(4):682–98

Heart rate variability and baroreceptor function in chronic diabetic rats. Fazan R Jr, et al. **Hypertension** 1997 Sep;30(3 Pt 2):632–5

A dual–input nonlinear system analysis of autonomic modulation of heart rate. Chon KH, et al. **IEEE Trans Biomed Eng** 1996 May;43(5):530–44

a 49–year–old woman with dyspnoea, palpitations and syncope. Gallerani M, et al. **Int J Cardiol** 1996 Jul 5; 55(1):67–78

Is elevated heart rate part of the insulin resistance syndrome? [letter] Gillum RF. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):886

Power spectral analysis of heart rate variability in obese subjects: evidence of decreased cardiac sympathetic responsiveness. Piccirillo G, et al. **Int J Obes Relat Metab Disord** 1996 Sep;20(9):825–9

Validity of peak oxygen uptake calculations from heart rate deflection points. de Wit MJ, et al. **Int J Sports Med** 1997 Apr;18(3):201–7

Lack of reliability in Conconi's heart rate deflection point. Jones AM, et al. **Int J Sports Med** 1995 Nov;16(8):541–4

Cardiopulmonary responses to exercise in swimmer using a swim bench and a leg–kicking ergometer. Swaine IL. **Int J Sports Med** 1997 Jul;18(5):359–62

Physiological responses to swimming while wearing a wet suit. Trappe TA, et al. **Int J Sports Med** 1996 Feb; 17(2):111–4

Relationship of changes in cardiac output to changes in heart rate in medical ICU patients [see comments] Sasse SA, et al. **Intensive Care Med** 1996 May;22(5):409–14. Comment in: Intensive Care Med 1997 Jan;23(1):133–4.

Relationship of changes in cardiac output to changes in heart rate in medical ICU patients [letter; comment] Stratton JD, et al. **Intensive Care Med** 1997 Jan;23(1):133–4. Comment on: Intensive Care Med 1996 May;22(5):409–14.

Heart rate variability correlates negatively with cardiac index in patients with sepsis [letter] Tang GJ, et al. **Intensive Care Med** 1996 May;22(5):514

Heart rate and skin conductance in behaviorally inhibited Mauritian children. Scarpa A, et al. **J Abnorm Psychol** 1997 May;106(2):182–90

Changes in stroke distance in response to haemorrhage in a swine model. Clancy MJ, et al. **J Accid Emerg Med** 1996 Sep;13(5):316–20

Heart rate variability before and after treatment with electroconvulsive therapy. Schultz SK, et al. **J Affect Disord** 1997 Jun;44(1):13–20

Accurate heartbeat perception in panic disorder: fact and artefact. Van der Does AJ, et al. **J Affect Disord** 1997 Apr; 43(2):121–30

Prognostic value of heart rate variability during long–term follow–up in patients with mild to moderate heart failure. The Dutch Ibopamine Multicenter Trial Study Group. Brouwer J, et al. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1183–9

Time– and rate–dependent alterations of the QT interval precede the onset of torsade de pointes in patients with acquired QT prolongation. Gilmour RF Jr, et al. **J Am Coll Cardiol** 1997 Jul;30(1):209–17

QT interval–heart rate relation during exercise in normal men and women: definition by linear regression analysis. Kligfield P, et al. **J Am Coll Cardiol** 1996 Nov 15; 28(6):1547–55

Left ventricular hypertrophy in hypertensive patients is associated with abnormal rate adaptation of QT interval. Singh JP, et al. **J Am Coll Cardiol** 1997 Mar 15;29(4):778–84

The influence of atrioventricular conduction and heart rate on the pulmonary venous flow pattern. Steen T, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):129–34

Autonomic dysfunction with special reference to cardiovascular responses in patients with raised intracranial tension. Singh NK, et al. **J Assoc Physicians India** 1995 Feb;43(2):106–7

Heart rate variability: a challenge for a new way of thinking [editorial; comment] Malliani A. **J Card Fail** 1996 Sep; 2(3):197–202 (30 ref.). Comment on: J Card Fail 1996 Sep;2(3):185–92.

Heart rate variability as an assessment of cardiovascular status. Fleisher LA. **J Cardiothorac Vasc Anesth** 1996 Aug; 10(5):659–71 (96 ref.)

Cardiovascular reactivity during verbal communication: an emerging risk factor. Thomas SA, et al. **J Cardiovasc Nurs** 1995 Jan;9(2):1–11 (42 ref.)

Evidence from a chronobiometric approach that chronic smokers, although normotensive, show an increase in diurnal blood pressure. Kawasaki T, et al. **J Cardiovasc Risk** 1996 Jun;3(3):313–7

Control of blood pressure and heart rate in patients randomized to epidural or general anesthesia for lower extremity vascular surgery. Perioperative Ischemia Randomized Anesthesia Trial (PIRAT) Study Group. Christopherson R, et al. **J Clin Anesth** 1996 Nov; 8(7):578–84

Power spectral analysis of heart rate in hyperthyroidism. Cacciatori V, et al. **J Clin Endocrinol Metab** 1996 Aug; 81(8):2828–35

Exercise recordings for the detection of T wave alternans. Promises and pitfalls. Albrecht P, et al. **J Electrocardiol** 1996;29 Suppl:46–51

Computer model analysis of the relationship of ST–segment and ST–segment/heart rate slope response to the constituents of the ischemic injury source. Hyttinen J, et al. **J Electrocardiol** 1997 Jul;30(3):161–74

Circadian variation of QT interval dispersion: correlation with heart rate variability. Ishida S, et al. **J Electrocardiol** 1997 Jul;30(3):205–10

Computer versus manual measurement of ST–segment deviation [corrected and republished in J Electrocardiol 1997 Apr;30(2):151–6] Pelter MM, et al. **J Electrocardiol** 1996;29 Suppl:78–82

Increase in heart rate after radiofrequency catheter ablation is mediated by parasympathetic nervous withdrawal and related to site of ablation. Soejima K, et al. **J Electrocardiol** 1997 Jul;30(3):239–46

Heart and respiratory rates and their significance for convective oxygen transport rates in the smallest mammal, the Etruscan shrew Suncus etruscus. Jürgens KD, et al. **J Exp Biol** 1996 Dec;199 (12):2579–84

Peripheral stimulus localization by infants: attention, age, and individual differences in heart rate variability. Richards JE. **J Exp Psychol Hum Percept Perform** 1997 Jun;23(3):667–80

Heart rate–dependence of arterial distensibility in vivo. Mangoni AA, et al. **J Hypertens** 1996 Jul;14(7):897–901

Blunted parasympathetic modulation in salt–sensitive patients with essential hypertension: evaluation by power–spectral analysis of heart–rate variability. Minami J, et al. **J Hypertens** 1997 Jul;15(7):727–35

Autonomic control of ultradian and circadian rhythms of blood pressure, heart rate, and baroreflex sensitivity in spontaneously hypertensive rats. Oosting J, et al. **J Hypertens** 1997 Apr;15(4):401–10

Influence of left ventricular hypertrophy on heart period variability in patients with essential hypertension. Petretta M, et al. **J Hypertens** 1995 Nov;13(11):1299–306

Relative bradycardia in infectious diseases. Ostergaard L, et al. **J Infect** 1996 Nov;33(3):185–91

Protection against cardiovascular collapse in an alcoholic patient with thiamine deficiency by concomitant alcoholic ketoacidosis. Bakker SJ, et al. **J Intern Med** 1997 Aug; 242(2):179–83

Hemodynamic comparison of mild and severe preeclampsia: concept of stroke systemic vascular resistance index. Scardo J, et al. **J Matern Fetal Med** 1996 Sep–Oct; 5(5):268–72

Strategy for control of complex low–dimensional dynamics in cardiac tissue. Watanabe M, et al. **J Math Biol** 1996 Nov;35(1):73–87

Pearson's fetal movement count (FMC) and antepartum fetal heart rate testing (AFHRT) for antepartum fetal well–being. Kovavisarach E, et al. **J Med Assoc Thai** 1996 Dec;79(12):785–90

Spectral analysis of heart rate and blood pressure in Guillain–Barré patients with respiratory failure. Pfeiffer G, et al. **J Neurol Sci** 1997 Sep 1;150(1):39–48

Wearing an abdominal belt increases diastolic blood pressure. Rafacz W, et al. **J Occup Environ Med** 1996 Sep;38(9):925–7

Oxygen consumption, heart rate, and rating of perceived exertion in young adult women during backward walking at different speeds. Clarkson E, et al. **J Orthop Sports Phys Ther** 1997 Feb;25(2):113–8

Effect of physical training on heart–period variability in obese children. Gutin B, et al. **J Pediatr** 1997 Jun; 130(6):938–43

Heart rate variability: a new physiologic marker of autonomic neurotoxicity [editorial; comment] Landrigan PJ, et al. **J Pediatr** 1997 May;130(5):691–3. Comment on: J Pediatr 1997 May;130(5):725–9.

Acoustic stimulation in hypoxic–ischemic encephalopathy: heart rate analysis. Manera J, et al. **J Perinat Med** 1997; 25(1):89–95

Self–efficacy as a component of active coping: effects on cardiovascular reactivity. Gerin W, et al. **J Psychosom Res** 1996 May;40(5):485–93

Canine cardiac digitalis receptors are preserved in congestive heart failure induced by rapid ventricular pacing. Barbey O, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):447–58

Orthostatic sympathetic derangement in subjects with fibromyalgia. Martínez–Lavín M, et al. **J Rheumatol** 1997 Apr;24(4):714–8

A short communication regarding the article by M. Kara et al. "Determination of the heart rate deflection point by the Dmax method." (J Sports Med Phys Fitness 1996;36(1):31–4) [letter; comment] Hofmann P, et al. **J Sports Med Phys Fitness** 1997 Jun;37(2):151–5. Comment on: J Sports Med Phys Fitness 1996 Mar;36(1):31–4.

Heart rate response during handball singles match–play and selected physical fitness components of experienced male handball players. Loftin M, et al. **J Sports Med Phys Fitness** 1996 Jun;36(2):95–9

Using heart rate and ratings of perceived exertion to monitor intensity in runners. Potteiger JA, et al. **J Sports Med Phys Fitness** 1995 Sep;35(3):181–6

A statistical analysis of sequences of cardiac interbeat intervals does not support the chaos hypothesis. Le Pape G, et al. **J Theor Biol** 1997 Jan 21;184(2):123–31

Outcome of atrial fibrillation after mitral valve repair. Obadia JF, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):179–85

Evaluation of autonomic nervous activity in patients with congenital long QT syndrome by an analysis of RR variability. Morita H, et al. **Jpn Circ J** 1996 Oct;

60(10):742–8
The cause–effect relationship of sympathovagal activity and the outcome of percutaneous transluminal coronary angioplasty. Tseng CD, et al. **Jpn Heart J** 1996 Jul; 37(4):455–62
Pressure–interval relationship characterizes left ventricular irregular beat contractilities and their mean level during atrial fibrillation. Yamaguchi H, et al. **Jpn J Physiol** 1997 Feb;47(1):101–10
Commuting, overtime, and cardiac autonomic activity in Tokyo [letter] Kageyama T, et al. **Lancet** 1997 Aug 30; 350(9078):639
Non–invasive determination of instantaneous heart rate in developing avian embryos by means of acoustocardiogram. Akiyama R, et al. **Med Biol Eng Comput** 1997 Jul; 35(4):323–7
High–resolution estimation of the heart rate variability signal. Harel T, et al. **Med Biol Eng Comput** 1997 Jan;35(1):61–5
New technique for time series analysis combining the maximum entropy method and non–linear least squares method: its value in heart rate variability analysis. Sawada Y, et al. **Med Biol Eng Comput** 1997 Jul;35(4):318–22
Monitoring of heart and respiratory rates by photoplethysmography using a digital filtering technique. Nakajima K, et al. **Med Eng Phys** 1996 Jul;18(5):365–72
Monitoring high–intensity endurance exercise with heart rate and thresholds. Boulay MR, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):125–32
Changes in physical strain and physical capacity in men with spinal cord injuries. Janssen TW, et al. **Med Sci Sports Exerc** 1996 May;28(5):551–9
Simultaneous monitoring of heart rate and motion to assess energy expenditure. Luke A, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):144–8
Influence of post–surgery time after cardiac transplantation on exercise responses. Mercier J, et al. **Med Sci Sports Exerc** 1996 Feb;28(2):171–5
Age and cardiac output during cycle exercise in thermoneutral and warm environments. Minson CT, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):75–81
Prognostic significance of peak oxygen uptake in hypertension. Pardaens K, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):794–800
Cardiovascular and peak VO2 responses to supine exercise: effects of age and training status. Proctor DN, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):892–9
Endurance exercise training has a minimal effect on resting heart rate: the HERITAGE Study. Wilmore JH, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):829–35
Anaphylaxis and coronary disease [letter; comment] Levy JH, et al. **N Engl J Med** 1996 Dec 19;335(25):1925; discussion 1925. Comment on: N Engl J Med 1996 Aug 1;335(5):340–1.
The heart rate response pattern to dialysis hypotension in haemodialysis patients. Zoccali C, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):519–23
Hypoxia–induced Fos expression in neurons projecting to the pressor region in the rostral ventrolateral medulla. Hirooka Y, et al. **Neuroscience** 1997 Oct;80(4):1209–24
Stepwise strategy of using short– and long–term heart rate variability for risk stratification after myocardial infarction. Faber TS, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1845–51
Value of heart rate variability parameters for prediction of serious arrhythmic events in patients with malignant ventricular arrhythmias. Filipecki A, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1852–6
Heart rate variability in isolated rabbit hearts. Frey B, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1882–5
Automatic sensor adjustment in a rate modulated pacemaker. North American Trilogy DR+ Phase I Clinical Investigators. Gentzler RD, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1809–12
Optimized standby rate reduces the ventricular rate variability in pacemaker patients with atrial fibrillation. Greenhut SE, et al. **Pacing Clin Electrophysiol** 1996 Nov; 19(11 Pt 2):1780–5
Heart rate variability and major arrhythmic events in patients with idiopathic dilated cardiomyopathy. Hoffmann J, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1841–4
The heart rate response to carotid artery massage in a sample of healthy elderly people. Jeffreys M, et al. **Pacing Clin Electrophysiol** 1996 Oct;19(10):1488–92
Effect of varying atrial sensitivity, AV interval, and detection algorithm on automatic mode switching. Palma EC, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1735–9
Initial and long–term evaluation of escape rhythm after radiofrequency ablation of the AV junction in 50 patients. Piot O, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1988–92
Reliability of a new algorithm for automatic mode switching from DDDR to DDIR pacing mode in sinus node disease patients with chronotropic incompetence and recurrent paroxysmal atrial fibrillation. Ricci R, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1719–23
Heart rate variability in myocardial infarction with and without malignant arrhythmias: comparison with heart transplant recipients and normal subjects. Rodrigues TR, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1857–62
Atrial fibrillation and dilated cardiomyopathy: therapeutic strategies when sinus rhythm cannot be maintained. Saxon LA. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 1):720–5 (58 ref.)
Heart rate variability: its association with hemodynamic function of the left ventricle in patients with coronary heart disease. Szydlo K, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1877–81
The ways and means of correcting the QT interval [editorial] Abdulla R. **Pediatr Cardiol** 1997 Jan–Feb;18(1):1–2
Heart rate variability and the outcome of head–up tilt in syncopal children. Stewart JM, et al. **Pediatr Res** 1996 Nov; 40(5):702–9
Changes in scores on the profile of mood states following a single bout of physical activity: heart rate and changes in affect. McGowan RW, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 1):859–66
Effects of pain–incompatible imagery on tolerance of pain, heart rate, and skin resistance. Neumann W, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):939–43
Chronobiometric assessment of autogenic training effects upon blood pressure and heart rate. Watanabe Y, et al. **Percept Mot Skills** 1996 Dec;83(3 Pt 2):1395–410
Pulse oximetry: a new way of determining the heart rate in chicken embryos. Lewin R, et al. **Pflugers Arch** 1997 Sep;434(5):639–41
Cardiorespiratory responses of patients with rheumatoid arthritis during bicycle riding and running in water. Melton–Rogers S, et al. **Phys Ther** 1996 Oct;76(10):1058–65
Heart rate and heart–rate variability in patients with acute coronary heart disease classified on Bortner's scale as type A and type B. Catipović–Veselica K, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):775–84
Power spectrum analysis of circadian oscillations of heart rate variability in patients with left ventricular dysfunction. Bobrov VA, et al. **Rev Port Cardiol** 1997 Apr;16(4):377–80, 352
Computerized system for assessing heart rate variability. Frigy A, et al. **Rom J Intern Med** 1996 Jul–Dec; 34(3–4):253–62
Heart rate variability in children with obstructive sleep apnea. Aljadeff G, et al. **Sleep** 1997 Feb;20(2):151–7
Cardiac autonomic nervous activity in sleep–related painful erections. Ferini–Strambi L, et al. **Sleep** 1996 Feb; 19(2):136–8
Altered cardiac contractility in sleep apnea. Nelesen RA, et al. **Sleep** 1996 Feb;19(2):139–44
Heart rate variations during sleep in preadolescents. Pivik RT, et al. **Sleep** 1996 Feb;19(2):117–35
Augmented very low frequency component of heart rate variability during obstructive sleep apnea. Shiomi T, et al. **Sleep** 1996 Jun;19(5):370–7
The use of heart rate to monitor the intensity of endurance training. Gilman MB. **Sports Med** 1996 Feb;21(2):73–9
Abnormal heart rate variability as a manifestation of autonomic dysfunction in hemispheric brain infarction. Korpelainen JT, et al. **Stroke** 1996 Nov;27(11):2059–63
Effects of transporting horses facing either forwards or backwards on their behaviour and heart rate. Waran NK, et al. **Vet Rec** 1996 Jul 6;139(1):7–11
A study of electrocardiographic patterns in a population of commercial broiler chickens. Olkowski AA, et al. **Vet Res Commun** 1997 Jan;21(1):51–62
Laparoscopic approach to pheochromocytoma: hemodynamic changes and catecholamine secretion. Fernández–Cruz L, et al. **World J Surg** 1996 Sep; 20(7):762–8; discussion 768
[Relationship between heart rate variability and clinical features and prognosis of acute myocardial infarction] Fan Z, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Feb;35(2):103–6 (Eng. Abstr.) **(Chi)**
[Risk of mortality after myocardial infarction: value of heart rate, its variability and left ventricular ejection fraction] Copie X, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):865–71 (Eng. Abstr.) **(Fre)**
[Heart rate and blood pressure variabilities in mild to moderate hypertensive patients with or without left ventricular hypertrophy] Herpin D, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1059–63 (Eng. Abstr.) **(Fre)**
[Evaluation of the degree of diabetic dysautonomy with the analysis of heart rate measured at rest with the FINAPRES system] Mestivier D, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1051–4 (Eng. Abstr.) **(Fre)**
[Sympathetic skin responses and variability of the R–R interval: correlation with the severity stages of diabetic polyneuropathy] Chassande B, et al. **Rev Neurol (Paris)** 1996 Oct;152(10):623–9 (Eng. Abstr.) **(Fre)**
[The therapy of atrial fibrillation. Rhythm or rate control?] Carlsson J, et al. **Dtsch Med Wochenschr** 1997 Jan 24; 122(4):97–103 (58 ref.) **(Ger)**
[Is the orthopedically correct lifting technique rational from a cardiopulmonary and metabolic viewpoint?] Fromme A, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar–Apr;135(2):157–61 (Eng. Abstr.) **(Ger)**
[The heart rate variability indices and the circadian rhythm of the hourly heart rate: 2 prognostic indicators of mortality and malignant ventricular arrhythmias in patients with a myocardial infarct] Curione M, et al. **Cardiologia** 1996 Dec; 41(12):1175–82 (Eng. Abstr.) **(Ita)**
[A new cardiovascular risk factor: heart rate] Sarno D, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):297–9 **(Ita)**
[Decreasing heart rate and shortening of the arterial pulse propagation time by acupuncture in the spectral analyses] Shinohara M. **Masui** 1997 Feb;46(2):213–21 (Eng. Abstr.) **(Jpn)**
[Arrhythmias with normal heart rate] Segawa K, et al. **Nippon Rinsho** 1996 Aug;54(8):2185–90 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Heart rate variability. Parameters for risk stratification after myocardial infarction] Anfinsen OG, et al. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):376–80 (26 ref.) (Eng. Abstr.) **(Nor)**
–Rate–responsive pacemaker with an unexpected chronotropic response– Petrucci O Jr, et al. **Arq Bras Cardiol** 1996 Mar;66(3):153–5 (Eng. Abstr.) **(Por)**
[The cyclic variation of the 2–dimensional echocardiographic densitometry spectrum as a function of the phase of the cardiac cycle. Experimental work and its clinical application in arterial hypertension] Coucelo J, et al. **Rev Port Cardiol** 1997 Jan;16(1):63–7 **(Por)**
[The characteristics of cardiac rhythm regulation in patients with duodenal peptic ulcer] Dudina EA, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):143–4 (Eng. Abstr.) **(Rus)**
[Autonomic nervous system tests in the classification of patients at risk for sudden cardiac death] Kaliská G, et al. **Bratisl Lek Listy** 1996 Aug;97(8):473–8 (Eng. Abstr.) **(Slo)**

DRUG EFFECTS

Atropine premedication attenuates heart rate variability during high thoracic epidural anesthesia. Kawamoto M, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1132–7
Effect of esmolol on the heart rate, arterial pressure and electrocardiographic changes during laryngomicroscopy. Korpinen R, et al. **Acta Anaesthesiol Scand** 1997 Mar; 41(3):371–5
Nebulized tetracaine attenuates the hemodynamic response to tracheal intubation. Stevens JB, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):757–9
Mivazerol, a new alpha 2–adrenergic agonist, blunts cardiovascular effects following surgical stress in pentobarbital–anesthetized rats. Zhang X, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):694–700
The comparative potency of intravenous nicardipine and verapamil on the cardiovascular response to tracheal intubation. Chen CC, et al. **Acta Anaesthesiol Sin** 1996 Dec; 34(4):197–202
The effects of triiodothyronine (T3) on heart rate, temperature and ECG measured with telemetry in freely moving mice. Johansson C, et al. **Acta Physiol Scand** 1997 Jun;160(2):133–8
Effects of sympathetic inhibition on blood pressure and renal responses to central hypervolaemia in normal humans. Kreutz R, et al. **Acta Physiol Scand** 1996 Jan;156(1):1–7
Effects of 1,1–dimethylguanidine administration on blood pressure, heart rate and renal sympathetic nerve activity in normotensive and spontaneously hypertensive rats. Zhang W, et al. **Acta Physiol Scand** 1997 Jan;159(1):1–6
Biphasic effects of alcohol on heart rate are influenced by alcoholic family history and rate of alcohol ingestion. Conrod PJ, et al. **Alcohol Clin Exp Res** 1997 Feb; 21(1):140–9
Ethanol–induced change in cardiac and endogenous opiate function and risk for alcoholism. Peterson JB, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1542–52
Control of heart rate during transition from intravenous to oral diltiazem in atrial fibrillation or flutter. Blackshear JL, et al. **Am J Cardiol** 1996 Dec 1;78(11):1246–50
Comparison of verapamil versus felodipine on heart rate variability after acute myocardial infarction. Bonaduce D, et al. **Am J Cardiol** 1997 Mar 1;79(5):564–9
Quinidine versus propafenone for conversion of atrial fibrillation to sinus rhythm. Di Benedetto S. **Am J Cardiol** 1997 Aug 15;80(4):518–9
Effects of zatebradine (ULFS 49 CL), a sinus node inhibitor, on heart rate and exercise duration in chronic stable angina pectoris. Zatebradine Investigators. Glasser SP, et al. **Am J Cardiol** 1997 May 15;79(10):1401–5
Early chronotropic incompetence predicts the need for atropine during dobutamine stress echocardiography. Hepner AM, et al. **Am J Cardiol** 1997 Feb 1;79(3):365–6
Correlation between time–domain measures of heart rate variability and scatterplots in patients with healed myocardial infarcts and the influence of metoprolol. Keeley EC, et al. **Am J Cardiol** 1997 Feb 15;79(4):412–4
Impact of metoprolol on heart rate, blood pressure, and contractility in normal subjects during dobutamine stress echocardiography. Marcovitz PA, et al. **Am J Cardiol** 1997 Aug 1;80(3):386–8
Effect of estrogen replacement therapy on heart rate variability and heart rate in healthy postmenopausal women. Rosano GM, et al. **Am J Cardiol** 1997 Sep 15; 80(6):815–7
Effects of acute alcohol ingestion on heart rate variability in patients with documented coronary artery disease and stable angina pectoris. Rossinen J, et al. **Am J Cardiol** 1997 Feb 15;79(4):487–91
Effects of low–dose epinephrine infusion on cardiovascular and renal responses to water immersion in humans. Kruse HJ, et al. **Am J Hypertens** 1996 Sep;9(9):902–8
Pressure–heart rate responses to alpha–adrenergic stimulation and hormonal regulation in normotensive patients with obstructive sleep apnea. Maillard D, et al.

Am J Hypertens 1997 Jan;10(1):24–31

Effect of antenatal thyrotropin–releasing hormone on uterine contractility, blood pressure, and maternal heart rate. Devlieger R, et al. **Am J Obstet Gynecol** 1997 Aug; 177(2):431–3

Cardiovascular effects of topical carteolol hydrochloride and timolol maleate in patients with ocular hypertension and primary open–angle glaucoma. Night Study Group. Netland PA, et al. **Am J Ophthalmol** 1997 Apr; 123(4):465–77

Central injection of physostigmine attenuates exercise–induced pressor response in conscious cats. Ally A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R393–9

Central 5–HT1A modulation of cardiovascular responses to tibial nerve stimulation–evoked muscle contraction. Ally A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1020–7

Cardiovascular effects of microinjection of low doses of serotonin into the NTS of unanesthetized rats. Callera JC, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1135–42

Vasodilator responses to acetylcholine, bradykinin, and substance P are mediated by a TEA–sensitive mechanism. Champion HC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R414–22

Daily exercise and gender influence postexercise cardiac autonomic responses in hypertensive rats. Chen Y, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1412–8

Acute depressor actions of angiotensin II in the nucleus of the solitary tract are mediated by substance P. Diz DI, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R28–34

Ins(1,4,5)P3 and arrhythmogenic responses during myocardial reperfusion: evidence for receptor specificity. Jacobsen AN, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1119–25

Electrophysiological–anatomic correlates of ATP–triggered vagal reflex in the dog. IV. Role of LV vagal afferents. Katchanov G, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1898–903

Sexual dimorphism in regional blood flow responses to vasopressin in conscious rats. Wang YX, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R1126–31

Nitric oxide within the paraventricular nucleus mediates changes in renal sympathetic nerve activity. Zhang K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):R864–72

Somatosensory influences on renal sympathetic nerve activity in anesthetized Wistar and hypertensive rats. Zhang T, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R982–90

Negative chronotropic and inotropic effects of endothelin isopeptides in mammalian cardiac muscle. Zhu Y, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H119–27

Effects of certain vasoactive agents on the long–term pattern of blood pressure, heart rate, and motor activity in cats. Brown SA, et al. **Am J Vet Res** 1997 Jun;58(6):647–52

Pulmonary vascular pressures of strenuously exercising thoroughbreds after administration of phenylbutazone. Manohar M, et al. **Am J Vet Res** 1996 Sep;57(9):1354–8

Effects of topical administration of 0.5% apraclonidine on intraocular pressure, pupil size, and heart rate in clinically normal dogs. Miller PE, et al. **Am J Vet Res** 1996 Jan; 57(1):79–82

Effects of topical administration of 0.5% apraclonidine on intraocular pressure, pupil size, and heart rate in clinically normal cats. Miller PE, et al. **Am J Vet Res** 1996 Jan; 57(1):83–6

Cardiopulmonary and anesthetic effects of propofol in wild turkeys. Schumacher J, et al. **Am J Vet Res** 1997 Sep; 58(9):1014–7

Simulation of an epidural test dose with intravenous isoproterenol in isoflurane–anesthetized adults. Tanaka M. **Anesth Analg** 1997 Sep;85(3):639–43

Effects of trimetazidine on heart rate variability and left ventricular systolic performance in patients with coronary artery disease after percutaneous transluminal angioplasty. Birand A, et al. **Angiology** 1997 May;48(5):413–22

Verapamil or diltiazem for acute rate control [letter] Ben Zemenick R. **Ann Emerg Med** 1997 Sep;30(3):354–5

Glucagon therapy in the treatment of symptomatic bradycardia. Love JN, et al. **Ann Emerg Med** 1997 Jan; 29(1):181–3

Emergency management of atrial fibrillation and flutter: intravenous diltiazem versus intravenous digoxin. Schreck DM, et al. **Ann Emerg Med** 1997 Jan;29(1):135–40

Drug profile of new benzofurane derivatives in guinea–pig isolated heart muscle preparations. Lemmens Gruber R, et al. **Arch Int Pharmacodyn Ther** 1995 Sep–Oct; 330(2):165–76

Species difference in the 5–hydroxytryptamine3 receptor associated with the von Bezold–Jarisch reflex. Yamano M, et al. **Arch Int Pharmacodyn Ther** 1995 Sep–Oct; 330(2):177–89

Tachyphylaxis and sensitization to nicotine–induced tachycardiac and pressor effects after nicotine infusions. Cruz SL, et al. **Arch Med Res** 1997 Summer;28(2):189–94

Influence of 5–hydroxytryptamine on the pressor responses induced by norepinephrine and electrical sympathetic stimulation in the pithed rat. Terrón JA, et al. **Arch Med Res** 1996 Autumn;27(3):291–7

Patterns of heart rate responses to hydralazine in normotensive and hypertensive rats. Vidrio H. **Arch Med Res** 1996 Autumn;27(3):299–303

Effects of coronary blood flow, myocardial contractility, and heart rate on cardiac lymph circulation in open–chest dogs. Use of a direct cannulation method for subepicardial lymph vessel. Saito D, et al. **Arzneimittelforschung** 1997 Feb; 47(2):119–24

Heart rate as a measure of adaptation to stress in cattle. Cook CJ, et al. **Aust Vet J** 1996 Dec;74(6):471–2

Rapid and long duration tolerance to the vagal bradycardic effects of 5–HT1A receptor agonists. McCall RB, et al. **Behav Brain Res** 1996;73(1–2):297–300

Re–examination for pharmacological properties of serotonin–induced tachycardia in isolated guinea–pig atrium. Nishio H, et al. **Behav Brain Res** 1996;73(1–2):301–4

Chronotropic effects of optical isomers of ephedrine and methylephedrine in the isolated rat right atria and in vitro assessment of direct and indirect actions on beta 1–adrenoceptors. Kawasuji T, et al. **Biol Pharm Bull** 1996 Nov;19(11):1423–8

Potentiation by higenamine of the aconitine–induced positive chronotropic effect in isolated right atria of mice: the effects of cholera toxin, forskolin and pertussis toxin. Kimura I, et al. **Biol Pharm Bull** 1996 Aug;19(8):1032–7

Effect of acute tryptophan depletion on behavioral, cardiovascular, and hormonal sensitivity to cholecystokinin–tetrapeptide challenge in healthy volunteers. Koszycki D, et al. **Biol Psychiatry** 1996 Oct 1;40(7):648–55

Cardiovascular, respiratory, and panic reactions to epinephrine in panic disorder patients. van Zijderveld GA, et al. **Biol Psychiatry** 1997 Jan 15;41(2):249–51

Effect of central muscarine receptor blockade with DKJ–21 on the blood pressure and heart rate in stress–induced hypertensive rats. Zhu DN, et al. **Blood Press** 1996 May; 5(3):170–7

Coupling of spontaneous ventilation to heart beat during benzodiazepine sedation. Galletly DC, et al. **Br J Anaesth** 1997 Jan;78(1):100–1

Cardioventilatory coupling during anaesthesia. Galletly DC, et al. **Br J Anaesth** 1997 Jul;79(1):35–40

Effects of acute administration of morphine on right atrial catecholamine content and heart rate in chronically morphine–treated rats. Rabadan JV, et al. **Br J Anaesth** 1997 Apr;78(4):439–41

Cardiovascular effects of an intubating dose of rocuronium 0.6 mg kg–1 in anaesthetized patients, paralysed with vecuronium. Wierda JM, et al. **Br J Anaesth** 1997 May; 78(5):586–7

Effects of a single oral dose of sparfloxacin on ventricular repolarization in healthy volunteers. Demolis JL, et al. **Br J Clin Pharmacol** 1996 Jun;41(6):499–503

The pharmacokinetics and effects on blood pressure of multiple doses of the novel anti–migraine drug zolmitriptan (311C90) in healthy volunteers. Dixon R, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):273–81

Comparison of the effects of a selective muscarinic receptor antagonist and hyoscine (scopolamine) on motion sickness, skin conductance and heart rate. Golding JF, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):633–7

The acute effects of inhaled salbutamol on the beat–to–beat variability of heart rate and blood pressure assessed by spectral analysis. Jartti T, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):421–8

Alterations in the force–frequency relationship by tert–butylbenzohydroquinone, a putative SR Ca2+ pump inhibitor, in rabbit and rat ventricular muscle. Baudet S, et al. **Br J Pharmacol** 1996 Jan;117(2):258–67

Differential effects of tert–butyl–benzohydroquinone, a putative SR Ca2+ pump inhibitor, on isometric relaxation during the staircase in the rabbit and rat ventricle. Baudet S, et al. **Br J Pharmacol** 1996 Jan;117(2):268–76

Direct chronotropic effects of atrial and C–type natriuretic peptides in anaesthetized dogs. Beaulieu P, et al. **Br J Pharmacol** 1996 Aug;118(7):1790–6

The cardiovascular and renal functional responses to the 5–HT1A receptor agonist flesinoxan in two rat models of hypertension. Chamienia AL, et al. **Br J Pharmacol** 1996 Aug;118(8):1891–8

Effects of calcium antagonists on endothelin–1–induced myocardial ischaemia and oedema in the rat. Filep JG, et al. **Br J Pharmacol** 1996 Jun;118(4):893–900

Direct positive chronotropic effects of angiotensin II and angiotensin III in pithed rats and in rat isolated atria. Li Q, et al. **Br J Pharmacol** 1996 Aug;118(7):1653–8

Mediation of the positive chronotropic effect of CGP 12177 and cyanopindolol in the pithed rat by atypical beta–adrenoceptors, different from beta 3–adrenoceptors. Malinowska B, et al. **Br J Pharmacol** 1996 Mar;117(5):943–9

Effect of intracerebroventricular and intravenous administration of nitric oxide donors on blood pressure and heart rate in anaesthetized rats. Nurminen ML, et al. **Br J Pharmacol** 1996 Dec;119(7):1422–6

Use of ratings of perceived exertion for predicting maximal work rate and prescribing exercise intensity in patients taking atenolol [see comments] Eston RG, et al. **Br J Sports Med** 1997 Jun;31(2):114–9. Comment in: Br J Sports Med 1997 Jun;31(2):93.

Estrogen increases the bradycardia elicited by central administration of the serotonin1A agonist 8–OH–DPAT in conscious rats. Alper RH, et al. **Brain Res** 1996 Apr 15;716(1–2):224–8

NMDA receptor antagonist blocks the bradycardic but not the pressor response to L–glutamate microinjected into the nucleus tractus solitarius (NTS) of unanesthetized rats. Colombari E, et al. **Brain Res** 1997 Feb 28;749(2):209–13

Cardiovascular effects produced by microinjection of angiotensins and angiotensin antagonists into the ventrolateral medulla of freely moving rats. Fontes MA, et al. **Brain Res** 1997 Mar 7;750(1–2):305–10

Cardiovascular effects of nitric oxide in the rostral ventrolateral medulla of rats. Kagiyama S, et al. **Brain Res** 1997 May 16;757(1):155–8

Morphine blocks the bradycardia associated with severe hemorrhage in the anesthetized rat. Ohnishi M, et al. **Brain Res** 1997 Jul 18;763(1):39–46

Effect of microinjection of muscimol into the dorsomedial or paraventricular hypothalamic nucleus on air stress–induced neuroendocrine and cardiovascular changes in rats. Stotz–Potter EH, et al. **Brain Res** 1996 Dec 2; 742(1–2):219–24

Resting and reflex heart rate responses during cholinergic stimulation with pyridostigmine in humans. Nóbrega AC, et al. **Braz J Med Biol Res** 1996 Nov;29(11):1461–5

Heart rate responses to intravenous serotonin in rats with acute chagasic myocarditis. Torres A, et al. **Braz J Med Biol Res** 1996 Jun;29(6):817–22

Heart rate changes in cardiac transplant patients and in the denervated cat heart after edrophonium. Backman SB, et al. **Can J Anaesth** 1997 Mar;44(3):247–54

Different properties of the bradycardia produced by neostigmine and edrophonium in the cat. Backman SB, et al. **Can J Anaesth** 1996 Jul;43(7):731–40

Heart rate and cardiac output after atropine in anaesthetised infants and children. McAuliffe G, et al. **Can J Anaesth** 1997 Feb;44(2):154–9

Diltiazem and vecuronium: neuromuscular and cardiovascular effects [letter] Saitoh Y, et al. **Can J Anaesth** 1997 Jan;44(1):99

Effect of prolonged catecholamine infusion on heart rate, blood pressure, breathing, and growth in fetal sheep. Bocking AD, et al. **Can J Physiol Pharmacol** 1995 Dec; 73(12):1750–8

Hemodynamic responses to Pasteurella haemolytica inoculation in calves given type 2 serotonergic antagonist. Desmecht D, et al. **Can J Physiol Pharmacol** 1996 May; 74(5):572–9

Cardiovascular responses to beta–blockade and 5 degrees C cold air stress. Headley SA, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):112–5

Stress–induced subsensitivity to catecholamines depends on the estrous cycle. Marcondes FK, et al. **Can J Physiol Pharmacol** 1996 Jun;74(6):663–9

Influence of the estrous cycle on the sensitivity to catecholamines in right atria from rats submitted to foot–shock stress. Vanderlei LC, et al. **Can J Physiol Pharmacol** 1996 Jun;74(6):670–8

Evaluation of the sympathetic nervous system using heart rate variability and plasma hormones in hypertensive patients treated with cilazapril and atenolol. Campelo M, et al. **Cardiology** 1996 Sep–Oct;87(5):402–8

Contrasting actions of celiprolol and metoprolol on cardiac performance in normal volunteers. Silke B, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):57–61

Heart rate and heart rate variability, a pharmacological target. Swynghedauw B, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):677–85 (47 ref.)

Bradykinin modulation of isolated rabbit heart function is mediated by intrinsic cardiac neurons. Izrailtyan I, et al. **Cardiovasc Res** 1997 Mar;33(3):641–9

Aldosterone blockade reduces vascular collagen turnover, improves heart rate variability and reduces early morning rise in heart rate in heart failure patients. MacFadyen RJ, et al. **Cardiovasc Res** 1997 Jul;35(1):30–4

Effects of vasoactive intestinal polypeptide on heart rate in relation to vagal cardioacceleration in conscious dogs. Roossien A, et al. **Cardiovasc Res** 1997 Feb;33(2):392–9

Magnesium abolishes inadequate kinetics of frequency adaptation of the Q–aT interval in the presence of sotalol. Stark G, et al. **Cardiovasc Res** 1997 Jul;35(1):43–51

Renal dose dopamine does not alter the response to beta–adrenergic stimulation by isoproterenol in healthy human volunteers. MacGregor DA, et al. **Chest** 1997 Jul; 112(1):40–4

Re–evaluation of the mechanism and treatment of angina decubitus. Chen J, et al. **Chin Med Sci J** 1996 Mar; 11(1):8–12

The central distribution of adrenomedullin and its effects on blood pressure and heart rate in rats. Wei Y, et al. **Chin Med Sci J** 1996 Mar;11(1):1–7

Oral contraceptives alter circadian rhythm parameters of cortisol, melatonin, blood pressure, heart rate, skin blood flow, transepidermal water loss, and skin amino acids of healthy young women. Reinberg AE, et al. **Chronobiol Int** 1996 Aug;13(3):199–211

Improved postoperative pain relief via preemptive analgesia in relation to heart rate variability for coronary artery bypass grafting: a preliminary report. Yung MC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jul;60(1):28–35

Cardiovascular effects of injection of argipressin into lateral septal nuclei in rats. Gao L, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):49–52

Influence of dofetilide on QT–interval duration and dispersion at various heart rates during exercise in humans. Démolis JL, et al. **Circulation** 1996 Oct 1;94(7):1592–9

Effects of thyroid hormone on cardiac beta–adrenergic responsiveness in conscious baboons. Hoit BD, et al. **Circulation** 1997 Jul 15;96(2):592–8

Negative chronotropic effect of beta–blockade therapy

reduces myocardial oxygen expenditure for nonmechanical work. Yamakawa H, et al. **Circulation** 1996 Aug 1; 94(3):340–5

The effects of midazolam and ephedrine on post–exercise autonomic chronotropic control of the heart in normal subjects. Lindqvist A, et al. **Clin Auton Res** 1996 Dec; 6(6):343–9

Increasing resting vascular tone in conscious dogs does not alter the mesenteric vasoconstrictor responses to ANP. Woods RL, et al. **Clin Exp Pharmacol Physiol** 1996 Jan; 23(1):95–7

Effects of low–dose transdermal scopolamine on autonomic cardiovascular control in healthy young subjects. Vesalainen RK, et al. **Clin Physiol** 1997 Mar;17(2):135–48

Acute effect of insulin on autonomic regulation of the cardiovascular system: a study by heart rate spectral analysis. Bellavere F, et al. **Diabet Med** 1996 Aug; 13(8):709–14

Effect of chronic quinapril administration on heart rate variability in patients with diabetic autonomic neuropathy. Kontopoulos AG, et al. **Diabetes Care** 1997 Mar; 20(3):355–61

Effects of treatment with the antioxidant alpha–lipoic acid on cardiac autonomic neuropathy in NIDDM patients. A 4–month randomized controlled multicenter trial (DEKAN Study). Deutsche Kardiale Autonome Neuropathie. Ziegler D, et al. **Diabetes Care** 1997 Mar;20(3):369–73

Effect of beraprost sodium on response to tests of autonomic control of heart rate in patients with diabetes mellitus. Noda K, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1–3):119–24

Marked increases in heart rate associated with sevoflurane but not with halothane following suxamethonium administration in children. Rieger A, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):616–21

Body fluid homeostasis and cardiovascular adjustments during submaximal exercise: influence of chewing coca leaves. Spielvogel H, et al. **Eur J Appl Physiol** 1997; 75(5):400–6

Concentration–effect relationship of the positive chronotropic and hypokalaemic effects of fenoterol in healthy women of childbearing age. Bouillon T, et al. **Eur J Clin Pharmacol** 1996;51(2):153–60

Centrally mediated hemodynamic effects of cocaine in rabbits: the role of local anesthetic actions and biogenic amine re–uptake blockage. Bernards CM. **Eur J Pharmacol** 1996 Jun 20;307(1):33–9

Effects of zatebradine on ouabain–, two–stage coronary ligation– and epinephrine–induced ventricular tachyarrhythmias. Furukawa Y, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):203–10

Mivazerol, a selective alpha 2–adrenoceptor agonist, attenuates tachycardia by intrathecal injection of N–methyl–D–aspartate in the rat. Kim SY, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):249–52

Cardiovascular responses mediated by two types of endothelin ET(B) receptor in spontaneously hypertensive and Wistar–Kyoto rats. Kuwahara M, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):55–63

Calcitonin gene–related peptide–induced preconditioning protects against ischemia–reperfusion injury in isolated rat hearts. Li YJ, et al. **Eur J Pharmacol** 1996 Sep 12; 311(2–3):163–7

Facilitation by substance P and inhibition by (+)–tubocurarine of the 5–HT3 receptor–mediated Bezold–Jarisch reflex in rats. Malinowska B, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):159–64

Inhibitory effect of ethanol on the 5–HT3 receptor–mediated tachycardia in isolated guinea–pig atrium. Nishio H, et al. **Eur J Pharmacol** 1997 Feb 19;321(1):27–31

Relative selectivity for negative chronotropic and inotropic effects of a novel dihydropyridine derivative CD–832. Noguchi K, et al. **Eur J Pharmacol** 1996 Jul 11;308(1):53–9

Receptor subtypes mediating spinal cardiovascular effects of angiotensin II in rat using losartan and PD 123319. Park PD, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):139–45

Hemodynamic effects and histamine release elicited by the selective adenosine A3 receptor agonist 2–Cl–IB–MECA in conscious rats. Van Schaick EA, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):311–4

Evidence from its cardiovascular effects that 7–nitroindazole may inhibit endothelial nitric oxide synthase in vivo. Zagvazdin Y, et al. **Eur J Pharmacol** 1996 May 6; 303(1–2):61–9

Cardiovascular and pancreatic endocrine responses to glucagon–like peptide–1(7–36) amide in the conscious calf. Edwards CM, et al. **Exp Physiol** 1997 Jul;82(4):709–16

Chronotropic and inotropic effects of terikalant on isolated, blood–perfused atrial and ventricular preparations of dogs. Lakhe M, et al. **Fundam Clin Pharmacol** 1997;11(4):331–8

Effects of pentobarbital and etomidate on plasma catecholamine levels and spectral analysis of blood pressure and heart rate in dogs. Mazerolles M, et al. **Fundam Clin Pharmacol** 1996;10(3):298–303

The heart rate after inhibition of nitric oxide release in the anaesthetized dog. Pagliaro P, et al. **Gen Pharmacol** 1996 Jun;27(4):695–9

Effects of thyrotropin–releasing hormone and its analogue, NS–3, on blood pressure, heart rate, and serum catecholamine levels in rats. Shinozuka K, et al. **Gen Pharmacol** 1997 Feb;28(2):209–14

Central effects of opioid agonists and naloxone on blood pressure and heart rate in normotensive and hypertensive rats. Sun SY, et al. **Gen Pharmacol** 1996 Oct;27(7):1187–94

Inhibitory effects of terfenadine on the rising phase of action potentials and sinus rates in isolated guinea–pig myocardium. Tanaka H, et al. **Gen Pharmacol** 1996 Mar; 27(2):337–40

Temporary decrease in heart rate in Lyme carditis during treatment with antibiotics. Dam EP, et al. **Heart** 1996 Sep; 76(3):289–90

Double blind placebo controlled trial of short term transdermal scopolamine on heart rate variability in patients with chronic heart failure. Venkatesh G, et al. **Heart** 1996 Aug;76(2):137–43

Effects of pinacidil, verapamil, and heart rate on afterdepolarizations in the guinea–pig heart in vivo. Xu J, et al. **Heart Vessels** 1996;11(6):289–302

Effect of iodothyronines on electrophysiological properties of rat papillary muscle fibres. Di Meo S, et al. **Horm Metab Res** 1997 May;29(5):225–30

Changes in the arterial blood pressure, heart rate and normal ECG parameters of rat after envenomation with Egyptian cobra (Naja haje) venom. Omran MA, et al. **Hum Exp Toxicol** 1997 Jun;16(6):327–33

Sympathoexcitatory effect of hypothalamic/hypophysary inhibitory factor in rats. Huang BS, et al. **Hypertension** 1997 Jun;29(6):1291–5

Cardiovascular effects of anandamide in anesthetized and conscious normotensive and hypertensive rats. Lake KD, et al. **Hypertension** 1997 May;29(5):1204–10

Baroreflex control of heart rate and cardiac hypertrophy in angiotensin II–induced hypertension in rabbits. Malpas SC, et al. **Hypertension** 1997 Jun;29(6):1284–90

Heart rate and blood pressure variabilities in salt–sensitive hypertension. Piccirillo G, et al. **Hypertension** 1996 Dec; 28(6):944–52

Sodium intake, angiotensin II receptor blockade, and baroreflex function in conscious rats. Xu L, et al. **Hypertension** 1997 Jan;29(1 Pt 2):450–7

Closed–loop drug infusion for control of heart–rate trajectory in pharmacological stress tests. Valcke CP, et al. **IEEE Trans Biomed Eng** 1997 Mar;44(3):185–95

Age–related changes in ventilatory and heart rate responses to acute ozone exposure in the conscious rat. Arito H, et al. **Ind Health** 1997;35(1):78–86

Augmentation of phenyldiguanide–induced bradycardia by Buthus tamulus venom in adult rats. Tiwari AK, et al. **Indian J Exp Biol** 1996 Jul;34(7):667–70

Effects of digoxin on time domain measures of heart rate variability in patients with stable chronic cardiac failure: withdrawal and comparison group studies. Flapan AD, et al. **Int J Cardiol** 1997 Mar;59(1):29–36

Heart rate variability after acute myocardial infarction in patients treated with atenolol and metoprolol. Lurje L, et al. **Int J Cardiol** 1997 Jul 25;60(2):157–64

Actions and interactions of ethanol and imipramine on the rat sinus node. Standen DJ, et al. **Int J Cardiol** 1997 Jul 25;60(2):165–70

Influence of diazepam and buspirone on human heart rate and the evoked cardiac response under varying cognitive load. Unrug A, et al. **Int J Psychophysiol** 1997 Feb; 25(2):177–84

Assessment of depth of midazolam sedation using objective parameters. Haberthür C, et al. **Intensive Care Med** 1996 Dec;22(12):1385–90

Cardiovascular effects of therapeutic doses of tricyclic antidepressants in children and adolescents. Wilens TE, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Nov; 35(11):1491–501 (75 ref.)

Paradoxical sinus deceleration during dobutamine stress echocardiography: description and angiographic correlation. Attenhofer CH, et al. **J Am Coll Cardiol** 1997 Apr;29(5):994–9

Heart rate is a marker of amiodarone mortality reduction in severe heart failure. The GESICA–GEMA Investigators. Grupo de Estudio de la Sobrevida en la Insuficiencia Cardiaca en Argentina–Grupo de Estudios Multicéntricos en Argentina. Nul DR, et al. **J Am Coll Cardiol** 1997 May;29(6):1199–205

Assessment of heart rate variability changes during dipyridamole infusion and dipyridamole–induced myocardial ischemia: a time variant spectral approach. Petrucci E, et al. **J Am Coll Cardiol** 1996 Oct;28(4):924–34

Differential activation of cardiac and peripheral sympathetic nervous system by nifedipine: role of pharmacokinetics. Wenzel RR, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1607–14

Central and regional hemodynamic effects during infusion of Big endothelin–1 in healthy humans. Ahlborg G, et al. **J Appl Physiol** 1996 Jun;80(6):1921–7

Ozone toxicity in the rat. II. Modeling changes due to ambient temperatures and duration. Highfill JW, et al. **J Appl Physiol** 1996 May;80(5):1811–8

Oxygen pulse in guinea pigs in hyperbaric helium and hydrogen. Kayar SR, et al. **J Appl Physiol** 1997 Mar; 82(3):988–97

Phenylbutazone increases right atrial pressure and heart rate of running horses. Mitten LA, et al. **J Appl Physiol** 1996 Jul;81(1):312–7

Exhaled nitric oxide during exercise: site of release and modulation by ventilation and blood flow. Phillips CR, et al. **J Appl Physiol** 1996 Jun;80(6):1865–71

Effects of calcium channel blockers on cultured rat embryos. Ban Y, et al. **J Appl Toxicol** 1996 Mar–Apr;16(2):147–51

Bezold–Jarisch reflex in myocardial infarcted rats. Meyrelles SS, et al. **J Auton Nerv Syst** 1997 Apr 14;63(3):144–52

Antihypertensive treatment and heart rate variability in diabetic patients: role of cardiac autonomic neuropathy. Salo TM, et al. **J Auton Nerv Syst** 1996 Aug 27; 60(1–2):61–70

Comparison of inotropic and chronotropic effects of vasoactive intestinal peptide in isolated dog atria. Wallick DW, et al. **J Auton Nerv Syst** 1996 Dec 14;61(3):257–63

Nonuniform sympathetic nerve responses to intravenous hypertonic saline infusion. Weiss ML, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):109–15

Spectral analysis of intercycle heart fluctuations in the diethyl–ether–anaesthetized or pithed rat treated with l–hyoscyamine. Bernardi M, et al. **J Auton Pharmacol** 1997 Feb;17(1):27–34

Effects of theophylline and dibutyryl–cAMP on adenosine receptors and heart rate in cultured cardiocytes. el–Ani D, et al. **J Basic Clin Physiol Pharmacol** 1996;7(4):347–62

The effects of caffeine on ambulatory blood pressure, heart rate, and mood in coffee drinkers. Green PJ, et al. **J Behav Med** 1996 Apr;19(2):111–28

Changes in heart rate variability during induction of anesthesia with fentanyl and midazolam. Zickmann B, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):609–13

Mechanism and pressor relevance of the short–term cardiovascular and renin excitatory actions of the selective A2A–adenosine receptor agonists. Alberti C, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):320–4

Pressor and hormonal responses to angiotensin I infusion in healthy subjects of different angiotensin–converting enzyme genotypes. Chadwick IG, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):485–9

Spontaneous changes of heart rate, blood pressure, and ischemia–type ST–segment depressions in patients with hypertension without significant coronary artery disease: beneficial effects of beta–blockade [published erratum appears in J Cardiovasc Pharmacol 1997 Mar;29(3):427] Christ M, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):755–63

Hypotensive and reflex bradycardic effects of ketanserin, but not of prazosin, enhanced selectively in aging conscious rats. Davidow LW, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):294–301

Modification of the cardiovascular effects of ephedrine by the reversible monoamine oxidase A–inhibitor moclobemide. Dingemanse J, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):856–61

Circadian variation in blood pressure and heart rate in nonhypertensive congestive heart failure. Giles TD, et al. **J Cardiovasc Pharmacol** 1996 Dec;28(6):733–40

Effects of PACAP–38 on the SA nodal pacemaker activity in autonomically decentralized hearts of anesthetized dogs. Hirose M, et al. **J Cardiovasc Pharmacol** 1997 Feb; 29(2):216–21

Effect of repeated administration of KT3–671, a nonpeptide AT1 receptor antagonist, on diurnal variation in blood pressure, heart rate, and locomotor activity in stroke–prone spontaneously hypertensive rats as determined by radiotelemetry. Kawashima K, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):411–6

Vasomolol: an ultra short–acting and vasorelaxant vanilloid type beta 1–adrenoceptor antagonist. Lin YT, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):149–57

Evidence of increased sympathetic vasomotor drive with shorter acting dihydropyridine calcium channel antagonists in human hypertension: a study using spectral analysis of RR interval and systolic arterial pressure variability. Lucini D, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):676–83

Sympatholysis after neuron–specific, N–type, voltage–sensitive calcium channel blockade: first demonstration of N–channel function in humans. McGuire D, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):400–3

Beta–adrenergic stimulation enhances left ventricular diastolic performance in normal subjects. Nixdorff U, et al. **J Cardiovasc Pharmacol** 1997 Apr;29(4):476–84

Centrally administered calcium increases the maximum vagal activation of baroreceptor reflex control of heart rate in spontaneously hypertensive rats. Seto S, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):639–46

Role of nitric oxide in the attenuated pressor responses of pregnant or sodium–deplete sheep. Tresham JJ, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):908–15

Prolonged cardiovascular effects of the N–type Ca2+ channel antagonist omega–conotoxin GVIA in conscious rabbits. Wright CE, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):392–9

Hemodynamic effects of scatter factor in conscious rats. Yang R, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):294–301

Use of esmolol to control bleeding and heart rate during electroconvulsive therapy in a patient with an intracranial aneurysm. Kolano JE, et al. **J Clin Anesth** 1997 Sep; 9(6):493–5

Pressor response to tyramine after single 24–hour application of a selegiline transdermal system in healthy males. Barrett JS, et al. **J Clin Pharmacol** 1997 Mar;37(3):238–47

Administration of H1 and H2 antagonists for chemoprophylaxis: a double–blind, placebo–controlled study in healthy volunteers. Doenicke A, et al. **J Clin Pharmacol** 1997 Feb;37(2):140–6

Effect of diltiazem on intraarterial blood pressure and heart rate during stress testing in patients with angina: a gender comparison study. Klassen GA, et al. **J Clin Pharmacol**

1997 Apr;37(4):297–303
Pharmacokinetics and cardiovascular effects of ma-huang (Ephedra sinica) in normotensive adults. White LM, et al. **J Clin Pharmacol** 1997 Feb;37(2):116–22
Modulation of Drosophila heartbeat by neurotransmitters. Johnson E, et al. **J Comp Physiol [B]** 1997 Feb;167(2):89–97
Mechanisms of cardiovascular activity of Andrographis paniculata in the anaesthetized rat. Zhang CY, et al. **J Ethnopharmacol** 1997 Apr;56(2):97–101
Dopaminergic responses in the Fischer 344 rat heart: preserved chronotropic and dromotropic responses with aging. Schwartz JB. **J Gerontol A Biol Sci Med Sci** 1997 Jan;52(1):M36–43
Resting blood pressure and cardiovascular reactivity to mental arithmetic in mild hypertensive males supplemented with blackcurrant seed oil. Deferne JL, et al. **J Hum Hypertens** 1996 Aug;10(8):531–7
Association between salt intake, heart rate and blood pressure. Rastenyte D, et al. **J Hum Hypertens** 1997 Jan; 11(1):57–62
Nifedipine and captopril exert divergent effects on heart rate variability in patients with acute episodes of hypertension. Wolk R, et al. **J Hum Hypertens** 1996 May;10(5):327–32
Relative importance of central imidazoline receptors for the antihypertensive effects of moxonidine and rilmenidine. Chan CK, et al. **J Hypertens** 1996 Jul;14(7):855–64
Effects of narcotic and non-narcotic continuous epidural anesthesia on intrapartum fetal heart rate tracings as measured by computer analysis. Hoffman CT 3rd, et al. **J Matern Fetal Med** 1997 Jul–Aug;6(4):200–5
Effects of increasing intracellular reactive iron level on cardiac function and oxidative injury in the isolated rat heart. Oubidar M, et al. **J Mol Cell Cardiol** 1996 Aug; 28(8):1769–76
Synthesis and pharmacological activity of adaprolol enantiomers: a new soft drug for treating glaucoma. Boder N, et al. **J Ocul Pharmacol Ther** 1996 Summer;12(2):115–22
Comparative cardiovascular effects of the angiotensin II type 1 receptor antagonists ZD 7155 and losartan in the rat. Junggren IL, et al. **J Pharm Pharmacol** 1996 Aug; 48(8):829–33
Effect of tachykinin receptor inhibition in the brain on cardiovascular and behavioral responses to stress. Culman J, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):238–46
Cardiovascular actions of thrombin receptor activation in vivo. Damiano BP, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1365–78
A comparison between chronotropic effects of neostigmine and edrophonium in isolated guinea pig right atrium. Endou M, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1480–6
Pharmacodynamics of acute tolerance to multiple nicotinic effects in humans. Fattinger K, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1238–46
Spinal muscarinic, glutamatergic and GABAergic receptor systems in cardiovascular regulation. Feldman DS, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):274–83
Cardiovascular effects of cholecystokinin-4 are mediated by the cholecystokinin-B receptor subtype in the conscious guinea pig and dog. Fossa AA, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):180–7
Differentiation of muscarinic receptors mediating negative chronotropic and vasoconstrictor responses to acetylcholine in isolated rat hearts. Hoover DB, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1337–44
alpha-Adrenergic activity and cardiovascular effects of besipirdine HCl (HP 749) and metabolite P7480 in vitro and in the conscious rat and dog. Hubbard JW, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):337–46
The inhibition of ganglionic transmission via presynaptic dopamine DA1 and postsynaptic DA2 receptor activation in the canine cardiac sympathetic ganglia. Mukai M, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):822–9
Early nociceptive events influence the temporal profile, but not the magnitude, of the tonic response to subcutaneous formalin: effects with remifentanil. Taylor BK, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):876–83
Participation of AT1 and AT2 receptors in the differential interaction between angiotensin II or III and alpha-2 adrenoceptors in the nucleus reticularis gigantocellularis in cardiovascular regulation and antinociception in rats. Yang CH, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):795–802
Sino-aortic denervation causes right atrial beta adrenoceptor down-regulation. Zanesco A, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):677–85
Cardiovascular responses to static exercise in conscious cats: effects of intracerebroventricular injection of clonidine. Ally A, et al. **J Physiol (Lond)** 1996 Mar 1;491 (Pt 2):519–27
Intravenous administration of haloperidol to healthy volunteers: lack of subjective effects but clear objective effects. Williams JH, et al. **J Psychopharmacol (Oxf)** 1997; 11(3):247–52
Cardiopulmonary responses to capsaicin instillation to the laryngeal lumen and their reflex mechanisms in rats. Hishida N, et al. **J Vet Med Sci** 1996 Aug;58(8):761–7
Haemodynamic, electrocardiographic, electrophysiologic and pharmacokinetic activity of 4'-hydroxypropranolol in dogs. Muir WW, et al. **J Vet Pharmacol Ther** 1996 Aug; 19(4):259–67
Cardiopulmonary effects of carfentanil in dama gazelles (Gazella dama). Schumacher J, et al. **J Zoo Wildl Med** 1997 Jun;28(2):166–70
Adenosine for reversal of hemorrhagic shock in rabbits. Abdel-Zaher AO, et al. **Jpn J Pharmacol** 1996 Nov; 72(3):247–54
Negative chronotropic and inotropic effects of U-92032, a novel T-type Ca2+ channel blocker, on the isolated, blood-perfused dog atrium. Lakhe M, et al. **Jpn J Pharmacol** 1996 Aug;71(4):333–5
Cholinergic autoantibodies in sinus-node dysfunction [letter] Ferrari I, et al. **Lancet** 1997 Jul 26;350(9073):262–3
An L-DOPA-like depressor action of L-threo-dihydroxyphenyl-serine in the rat caudal ventrolateral medulla. Furukawa N, et al. **Life Sci** 1997; 61(12):1177–83
Central inhibition of nitric oxide synthesis increases blood pressure and heart rate in anesthetized rats. Nurminen ML, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan-Feb; 19(1):35–41
Cardiovascular parameters of heroin-withdrawn addicts treated with guanfacine. Rubio G, et al. **Methods Find Exp Clin Pharmacol** 1997 Apr;19(3):189–92
Effects of operationally effective doses of dextroamphetamine on heart rates and blood pressures of army aviators. Caldwell JA Jr. **Mil Med** 1996 Nov;161(11):673–8
Acute cardiovascular effects of salmeterol in subjects with stable bronchial asthma. Bagnato GF, et al. **Monaldi Arch Chest Dis** 1996 Aug;51(4):275–8
No effects on heart-rate variability and cardiovascular reflex tests after botulinum toxin treatment of cervical dystonia [letter] Nebe A, et al. **Mov Disord** 1996 May;11(3):337–9
Celiprolol: agonist and antagonist effects at cardiac beta 1- and vascular beta 2-adrenoceptors determined under in vivo conditions in the rat. Alvarez-Guerra M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):689–98
Inhibition of pacemaker current by the bradycardic agent ZD 7288 is lost use-dependently in sheep cardiac Purkinje fibres. Berger F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec; 353(1):64–72
Alpha-fluoromethylhistidine, an inhibitor of histamine biosynthesis, causes arterial hypertension. Campos HA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):627–32
Daily rhythms of heart rate, temperature and locomotor activity are modified by anaesthetics in rats: a telemetric study. Prudian F, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):774–8
Influence of blockade of alpha 1-adrenoceptors, beta 1-adrenoceptors and vasopressin V1A receptors on the cardiovascular effects of gamma 2-melanocyte-stimulating hormone (gamma 2-MSH). Van Bergen P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):720–6
Medullary pathways of cardiovascular responses to 5-HT2 and 5-HT3 receptor stimulation in the rat nucleus tractus solitarius. Sévoz C, et al. **Neuroreport** 1996 Aug 12; 7(12):1965–9
Role of nitric oxide and serotonin in modulation of the cardiovascular defence response evoked by stimulation in the periaqueductal grey matter in rats. Hamalainen MM, et al. **Neurosci Lett** 1997 Jun 27;229(2):105–8
Modification of cardiovascular response of adenosine A1 receptor agonist by cyclic AMP in the spinal cord of the rats. Koh HC, et al. **Neurosci Lett** 1996 Nov 29; 219(3):195–8
Activation of chemosensitive neurons in the ventrolateral medulla by capsaicin in cats. Seller H, et al. **Neurosci Lett** 1997 May 2;226(3):195–8
Effect of transdermal scopolamine on heart rate variability in patients with severe coronary heart disease. Kochiadakis GE, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1867–71
Heart rate variability in premature neonates pre-and postmethylxanthine administration. Kibblewhite DP, et al. **Paediatr Anaesth** 1996;6(5):399–403
Influence of sedation on arousal and cardiorespiratory responses to airflow obstruction in sleeping lambs. Jakubowska AE, et al. **Pediatr Res** 1996 Oct;40(4):564–70
Halothane and cardiac autonomic control in infants: assessment with quantitative respiratory sinus arrhythmia. Oberlander TF, et al. **Pediatr Res** 1996 Nov;40(5):710–7
Intravenous beta-endorphin administration fails to alter hypothalamic blood flow in rats expressing normal or reduced nitric oxide synthase activity. Benyó Z, et al. **Peptides** 1996;17(4):733–6
Tetrodotoxin-sensitive inactivation-resistant sodium channels in pacemaker cells influence heart rate. Ju Y, et al. **Pflugers Arch** 1996 Apr;431(6):868–75
Pharmacological analysis of diisopropyl fluorophosphate: effects on core temperature, heart rate, and motor activity in the unrestrained rat. Gordon CJ. **Pharmacol Biochem Behav** 1996 Oct;55(2):185–94
Chlorthalidone-modulated vascular responses to vasodilator stimuli in DOCA-salt hypertensive rats. Bissoli NS, et al. **Pharmacol Res** 1996 Jan;33(1):47–54
Effects of beta-blockers association with pilocarpine on rabbit intraocular pressure and heart rate. Drago F, et al. **Pharmacol Res** 1997 Apr;35(4):299–302
Cardiovascular actions of chronic intracerebroventricular administration of metformin in normotensive rats. Andersen D, et al. **Pharmacol Toxicol** 1997 Jul;81(1):7–12
The influence of various antidepressants on heart rate and electrodermal activity during psychophysiological examinations of depressive patients. Barg T, et al. **Pharmacopsychiatry** 1996 Nov;29(6):216–9
Changes in locomotor activity, core temperature, and heart rate in response to repeated cocaine administration. Ansah TA, et al. **Physiol Behav** 1996 Nov;60(5):1261–7
The action of ginsenoside Re on inotropy and chronotropy of isolated atria prepared from guinea pigs. Jin ZQ. **Planta Med** 1996 Aug;62(4):314–6
Effects of lactate on cross-spectral analysis of heart rate, blood pressure, and lung volume in normal volunteers. Yeragani VK, et al. **Psychiatry Res** 1996 Feb 28;60(1):77–85
Opioid modulation of attention-related responses: delta-receptors modulate habituation and conditioned bradycardia. Hernández LL, et al. **Psychopharmacology (Berl)** 1997 May;131(2):140–7
Alcohol pretreatment increases preference for cocaine over monetary reinforcement. Higgins ST, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):1–8
Enhancement of cocaine's abuse liability in methadone maintenance patients. Preston KL, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):15–25
MHPG and heart rate as correlates of nonresponse to drug therapy in panic disorder patients. A preliminary report. Slaap BR, et al. **Psychopharmacology (Berl)** 1996 Oct; 127(4):353–8
Subjective and cardiovascular effects of intravenous nicotine in smokers and non-smokers. Soria R, et al. **Psychopharmacology (Berl)** 1996 Dec;128(3):221–6
Effects of alprazolam and lorazepam on catecholaminergic and cardiovascular activity during supine rest, mental load and orthostatic challenge. van den Berg F, et al. **Psychopharmacology (Berl)** 1996 Nov;128(1):21–30
The cardiovascular startle response: anxiety and the benzodiazepine receptor complex. Berntson GG, et al. **Psychophysiology** 1997 May;34(3):348–57
The effects of recent food, alcohol, and tobacco intake and the temporal scheduling of testing on cardiovascular activity at rest and during psychological stress. Sheffield D, et al. **Psychophysiology** 1997 Mar;34(2):204–12
Subarachnoid neostigmine does not affect blood pressure or heart rate during bupivacaine spinal anesthesia. Lauretti GR, et al. **Reg Anesth** 1996 Nov-Dec;21(6):586–91
Interactions of exendin-(9–39) with the effects of glucagon-like peptide-1-(7–36) amide and of exendin-4 on arterial blood pressure and heart rate in rats. Barragán JM, et al. **Regul Pept** 1996 Nov 14;67(1):63–8
Effects of intracerebroventricular injections of losartan or PD123319 on arterial pressure and heart rate of sodium replete and sodium deplete rats. De Luca LA Jr, et al. **Regul Pept** 1996 Oct 8;66(1–2):31–5
Cardioventilatory responses to hypoxia and NaCN in the neotenous axolotl. McKenzie DJ, et al. **Respir Physiol** 1996 Dec;106(3):255–62
Time course and relative dose potency of systemic effects from salmeterol and salbutamol in healthy subjects. Bennett JA, et al. **Thorax** 1997 May;52(5):458–64
Beta-adrenergic stimulation induces ST-segment elevation in dogs with healing myocardial infarction. Katori R, et al. **Tohoku J Exp Med** 1995 Nov;177(3):233–48
Biofeedback assisted relaxation in essential hypertension: short-term follow-up of contributing effects of pharmacotherapy on blood pressure and heart rate. "Brief communication". Cengiz E, et al. **Yonsei Med J** 1997 Apr; 38(2):86–90
[Effect of Chinese herbs on the circadian rhythm of body temperature and heart rate in rabbits with hypothyroidism (yang deficiency)] Xu M, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr;21(4):247–9 inside backcover (Eng. Abstr.) **(Chi)**
[n-3 polyunsaturated fatty acids, heart rate variability and ventricular arrhythmias in post-AMI-patients. A clinical controlled trial] Christensen JH, et al. **Ugeskr Laeger** 1997 Sep 8;159(37):5525–9 (Eng. Abstr.) **(Dan)**
[Influence of anti-arrhythmia agents on heart rate variability] Brembilla-Perrot B, et al. **Ann Cardiol Angeiol (Paris)** 1997 Mar;46(3):129–34 (Eng. Abstr.) **(Fre)**
[Effects of octreotide on experimental orthostatic neurogenic hypotension] Verwaerde P, et al. **Arch Mal Coeur Vaiss** 1996 Aug;89(8):1097–1101 (Eng. Abstr.) **(Fre)**
[Effect of 8-week administration of enalapril plus additional 2-week administration of furosemide on heart rate and exocrine pancreas secretion in dogs] Niebergall-Roth E, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov-Dec; 109(11–12):414–8 (Eng. Abstr.) **(Ger)**
[Heart frequency control in chronic and paroxysmal atrial fibrillation. Critical evaluation of traditional therapy concepts] Ostermaier R, et al. **Fortschr Med** 1997 Jan 20; 115(1–2):26–8, 30, 32, passim (23 ref.) (Eng. Abstr.) **(Ger)**
[Effect of a new bradycardic substance on the isolated rabbit heart] Granetzny A, et al. **Z Kardiol** 1996 Dec; 85(12):953–60 (Eng. Abstr.) **(Ger)**
[Drug therapy of atrial fibrillation: control of heart rate versus establishing sinus rhythm] Steinbeck G. **Z Kardiol** 1996;85 Suppl 6:69–74 (32 ref.) (Eng. Abstr.) **(Ger)**
[Effects of prostacyclin (PGI2) on pial vessel diameter and carbon-dioxide reactivity in cats] Nagahata T, et al. **Masui** 1996 Feb;45(2):194–9 (Eng. Abstr.) **(Jpn)**

[Chronotropic effects of alpha-agonist on the rat isolated right atria] Nakano K. **Nippon Ika Daigaku Zasshi** 1996 Dec;63(6):473-80 (Eng. Abstr.) **(Jpn)**

[Acute toxic actions of mercury on the cardiovascular system] Vassallo DV, et al. **Arq Bras Cardiol** 1996 Jul; 67(1):39-45 (40 ref.) **(Por)**

[The electrocardiogram of the guinea pig. Changes induced by beta-methyl digoxin acute administration] Padrón-Nieves M, et al. **Acta Cient Venez** 1994; 45(3):207-13 (Eng. Abstr.) **(Spa)**

[Anticholinergic action of clonidine on cardiovascular effects of the central cholinergic estimulation] Taira CA. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):119-26 (Eng. Abstr.) **(Spa)**

[Picture of poisoning in citalopram overdose. Convulsions and ECG symptoms can occur] Personne M, et al. **Lakartidningen** 1997 Apr 23;94(17):1603-4 **(Swe)**

GENETICS

Evidence for primary genetic determination of heart rate regulation: chromosomal mapping of a genetic locus in the rat. Kreutz R, et al. **Circulation** 1997 Aug 19;96(4):1078-81

Familial and genetic influences on heart rate variability. Voss A, et al. **J Electrocardiol** 1996;29 Suppl:154-60

Defective "pacemaker" current (Ih) in a zebrafish mutant with a slow heart rate. Baker K, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4554-9

Cardiac profile and disruptive behavior in boys at risk for delinquency. Pine DS, et al. **Psychosom Med** 1996 Jul-Aug; 58(4):342-53

PHYSIOLOGY

Cardiorespiratory variables during a continuous ramp exercise protocol in normal young adults. Matthys D, et al. **Acta Cardiol** 1996;51(5):451-9

Heart beat modulation of spontaneous otoacoustic emissions in guinea pig. Ren T, et al. **Acta Otolaryngol (Stockh)** 1995 Nov;115(6):725-31

Reactivity of skin blood flow and heart rate to thermal stimulation in infants during the first postnatal days and after a two-month follow-up. Jahnukainen T, et al. **Acta Paediatr** 1996 Jun;85(6):733-8

Reactivity of skin blood flow and heart rate to external thermal stimulation in anencephaly. Jahnukainen T, et al. **Acta Paediatr** 1997 Apr;86(4):426-7

Autoregressive analysis of cardiac RR intervals in preterm and full-term infants. Nyu A, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):37-43

Suprachiasmatic nuclei lesions eliminate the group circadian rhythm of systolic arterial pressure but not of heart rate in rats. Stoynev AG, et al. **Acta Physiol Pharmacol Bulg** 1996;22(1):1-6

Effect of changes in transmural pressure on contraction frequency of the isolated right atrium of the rabbit. Bolter CP. **Acta Physiol Scand** 1996 Jan;156(1):45-50

Heart rate variability in healthy subjects is related to age and gender. Jensen-Urstad K, et al. **Acta Physiol Scand** 1997 Jul;160(3):235-41

Chemoreceptors in autonomic responses to hypoxia in conscious rats. Hayashida Y, et al. **Adv Exp Med Biol** 1996; 410:439-42

Spatial magnitudes of instantaneous QRS and ST-T vectors in Nigerians. Araoye MA. **Afr J Med Med Sci** 1995 Sep; 24(3):283-8

Spectral analysis of heart rate variability in evaluation of sympathetic function in elderly subjects. Luutonen S, et al. **Age Ageing** 1994 Nov;23(6):473-7

Safety of pediatric neuroimaging [comment] Ball WS Jr. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1037. Comment on: AJNR Am J Neuroradiol 1996 Jun-Jul;17(6):1033-6.

Preliminary report: changes in vital signs of term newborns during MR [see comments] Philbin MK, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1033-6. Comment in: AJNR Am J Neuroradiol 1996 Jun-Jul;17(6):1037.

Variation of heart rate and electrocardiograph trigger interval during ultrafast computed tomography. Mao SS, et al. **Am J Card Imaging** 1996 Oct;10(4):239-43

Relation of pacing-induced coronary resistance vessel dilation to total serum cholesterol and heart rate-blood pressure product. Anderson TJ, et al. **Am J Cardiol** 1997 Jul 1;80(1):16-20

Association of average heart rate on 24-hour ambulatory electrocardiograms with incidence of new coronary events at 48-month follow-up in 1,311 patients (mean age 81 years) with heart disease and sinus rhythm. Aronow WS, et al. **Am J Cardiol** 1996 Nov 15;78(10):1175-6

Reproducibility of time-domain indexes of heart rate variability in patients with vasovagal syncope. Kochiadakis GE, et al. **Am J Cardiol** 1997 Jan 15;79(2):160-5

Heart rate variability reproducibility and stability using commercially available equipment in coronary artery disease with daily life myocardial ischemia. Pardo Y, et al. **Am J Cardiol** 1996 Oct 15;78(8):866-70

Parasympathetic activity in Friedrich's ataxia. Pousset F, et al. **Am J Cardiol** 1996 Oct 1;78(7):847-50

Prognostic value of heart rate variability in chronic congestive heart failure secondary to idiopathic or ischemic dilated cardiomyopathy. Szabó BM, et al. **Am J Cardiol** 1997 Apr 1;79(7):978-80

Between-day and within-day variability in the relation between heart rate and oxygen consumption: effect on the estimation of energy expenditure by heart-rate monitoring. McCrory MA, et al. **Am J Clin Nutr** 1997 Jul;66(1):18-25

Smoking related to 24-h ambulatory blood pressure and heart rate: a study in 352 normotensive Danish subjects. Mikkelsen KL, et al. **Am J Hypertens** 1997 May;10(5 Pt 1):483-91

What time is the "biologic zero hour" of circadian variability? Okutani M, et al. **Am J Hypertens** 1997 Jul;10(7 Pt 1):756-62

Effects of race and ethnicity on insulin sensitivity, blood pressure, and heart rate in three ethnic populations: comparative studies in African-Americans, African immigrants (Ghanaians), and white Americans using ambulatory blood pressure monitoring. Osei K, et al. **Am J Hypertens** 1996 Dec;9(12 Pt 1):1157-64

Power spectral analysis of heart period variability in hypertensive patients with left ventricular hypertrophy. Petretta M, et al. **Am J Hypertens** 1995 Dec;8(12 Pt 1):1206-13

Assessment of autonomic neurotoxicity in occupational and environmental health as determined by ECG R-R interval variability: a review. Murata K, et al. **Am J Ind Med** 1996 Aug;30(2):155-63 (82 ref.)

Frequency domain characteristics of muscle sympathetic nerve activity in heart failure and healthy humans. Ando S, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R205-12

Daily exercise and gender influence arterial baroreflex regulation of heart rate and nerve activity. Chen CY, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1840-8

Participation of galanin in baroreflex inhibition of heart rate by hypothalamic PVN in rat. Chen YL, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1823-8

Synergistic vascular effects of dietary sodium supplementation and angiotensin II administration. Csiky B, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1275-82

Stimulation of metabotropic glutamate receptors in the dorsomedial hypothalamus elevates heart rate in rats. DiMicco J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1115-21

Trigeminal and chemoreceptor contributions to bradycardia during voluntary dives in rats. McCulloch PF, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R814-22

Autonomic interactions for control of atrial rate are maintained after SA nodal parasympathectomy. McGuirt AS, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2525-33

Vector autoregressive modeling for analyzing feedback regulation between heart rate and blood pressure. Matsukawa S, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H478-86

Inhibition of NO synthesis does not potentiate dynamic cardiovascular response to sympathetic nerve activity. Miyano H, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H38-43

Linear and nonlinear properties of heart rate control in infants at risk. Patzak A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R540-7

Analysis of heart rate-based control of arterial blood pressure. Rose WC, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H812-22

Isoform-independent heart rate-related variation in cardiac myofibrillar Ca(2+)-activated Mg(2+)-ATPase activity. Rouslin W, et al. **Am J Physiol** 1996 May;270(5 Pt 1):C1271-6

Mechanical workload-myocardial water content relationship in isolated rat hearts. Schertel ER, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H271-8

Age and autonomic effects on interrelationships between lung volume and heart rate. Stanley G, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1833-40

Effect of autonomic blockade on power spectrum of heart rate variability during exercise. Warren JH, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R495-502

The effect of the lateral decubitus position on vagal tone. Chen GY, et al. **Anaesthesia** 1997 Jul;52(7):653-7

Pressure-heart rate relationship in intact and after stepwise elimination of three major baroreflex loops in dogs. Behnia R, et al. **Anesth Analg** 1996 Nov;83(5):965-74

Heart rate variability, respiratory sinus arrhythmia, and mathematical modeling of acetylcholine pharmacokinetics/pharmacodynamics in sinus node neuroeffector junctions [letter] Dexter F. **Anesth Analg** 1997 Jun;84(6):1393

Changes in cardiac autonomic activities in patients with syndrome X. A study of spectral analysis of heart rate variability. Lee WL, et al. **Angiology** 1996 Oct; 47(10):929-39

Approximate minimum bias multichannel spectral estimation for heart rate variability. Lovett EG, et al. **Ann Biomed Eng** 1997 May-Jun;25(3):509-20

Relationship of aggression and anxiety to autonomic regulation of heart rate variability in adolescent males. Mezzacappa E, et al. **Ann N Y Acad Sci** 1996 Sep 20; 794:376-9

Neural cardiovascular regulation and 24-hour blood pressure and heart rate variability. Parati G, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:47-63 (54 ref.)

The assessment of 24-hour energy expenditure in elderly women by minute-by-minute heart rate monitoring. Rutgers CJ, et al. **Ann Nutr Metab** 1997;41(2):83-8

Heart rate, blood lactate responses and ratings of perceived exertion to 1,000 punches and 1,000 kicks in collegiate karate practitioners. Imamura H, et al. **Appl Human Sci** 1997 Jan;16(1):9-13

Cardiorespiratory responses to cycling exercise in trained and untrained healthy elderly: with special reference to the lactate threshold. Takeshima N, et al. **Appl Human Sci** 1996 Nov;15(6):267-73

Heart rate response profiles during head upright tilt test in infants with apparent life threatening events. Edner A, et al. **Arch Dis Child** 1997 Jan;76(1):27-30

Behaviour and physiological responses during prone and supine sleep in early infancy. Skadberg BT, et al. **Arch Dis Child** 1997 Apr;76(4):320-4

Assessment of spontaneous baroreflex sensitivity in neonates. Drouin E, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F108-12

Classical heart rate conditioning and affective behavior: the role of the cerebellar vermis. Ghelarducci B, et al. **Arch Ital Biol** 1997 Sep;135(4):369-84 (85 ref.)

Effects of hypovolemia on aortic baroreflex control of heart rate in humans. Convertino VA, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):838-43

Ambulatory blood pressure monitoring in clinically healthy subjects adapted to living in Antarctica. Cugini P, et al. **Aviat Space Environ Med** 1997 Sep;68(9 Pt 1):795-801

Heart rate responses to real and simulated BA Hawk MK 51 flight. Ylönen H, et al. **Aviat Space Environ Med** 1997 Jul;68(7):601-5

Subicular lesions disrupt but do not abolish classically conditioned bradycardia in rabbits. Chachich M, et al. **Behav Neurosci** 1996 Aug;110(4):707-17

Autonomic and behavioral correlates of appetitive conditioning in rats. Hunt PS, et al. **Behav Neurosci** 1997 Jun;111(3):494-502

Effect of tone-dependent fear conditioning on heart rate and behavior of C57BL/6N mice. Stiedl O, et al. **Behav Neurosci** 1997 Aug;111(4):703-11

Respiratory influences on non-linear dynamics of heart rate variability in humans. Fortrat JO, et al. **Biol Cybern** 1997 Jul;77(1):1-10

Dynamic detection of rhythmic oscillations in heart-rate tracings: a state-space approach based on fourth-order cumulants. Pilgram B, et al. **Biol Cybern** 1997 Apr; 76(4):299-309

Power spectral analysis of heart rate variability in posttraumatic stress disorder patients. Cohen H, et al. **Biol Psychiatry** 1997 Mar 1;41(5):627-9

Unconstrained heart-rate monitoring during bathing. Tamura T, et al. **Biomed Instrum Technol** 1997 Jul-Aug;31(4):391-6

QTc dispersion and risk of cardiac death in peripheral vascular disease. QTc dispersion and vulnerability to ventricular fibrillation [letter; comment] Haider AW, et al. **BMJ** 1996 Oct 26;313(7064):1082; discussion 1082-3. Comment on: BMJ 1996 Apr 6;312(7035):874-8; discussion 878-9.

QTc dispersion and risk of cardiac death in peripheral vascular disease. QTc dispersion also occurs in diabetes [letter; comment] Jermendy G. **BMJ** 1996 Oct 26; 313(7064):1082; discussion 1082-3. Comment on: BMJ 1996 Apr 6;312(7035):874-8; discussion 878-9.

QTc dispersion and risk of cardiac death in peripheral vascular disease. Dispersion of 60 ms1/2 is insufficient to change clinical management [letter; comment] [published erratum appears in BMJ 1996 Nov 30;313(7069):1405] Linker NJ, et al. **BMJ** 1996 Oct 26;313(7064):1081, discussion 1082-3. Comment on: BMJ 1996 Apr 6;312(7035):874-8; discussion 878-9.

QTc dispersion and risk of cardiac death in peripheral vascular disease. Three facets of the study need attention [letter; comment] Prasad K, et al. **BMJ** 1996 Oct 26; 313(7064):1081-2; discussion 1082-3. Comment on: BMJ 1996 Apr 6;312(7035):874-8; discussion 878-9.

Dynamic internal coordination in different frequency ranges. Rittweger J, et al. **Boll Soc Ital Biol Sper** 1996 Jan-Feb; 72(1-2):45-63 (24 ref.)

Circadian rhythm of frequency-domain measures of heart rate variability in pregnancy. Ekholm EM, et al. **Br J Obstet Gynaecol** 1997 Jul;104(7):825-8

Cardiovascular response to stress after middle cerebral artery occlusion in rats. Cheung RT, et al. **Brain Res** 1997 Feb 7;747(2):181-8

Nucleus ambiguus inhibits activity of cardiovascular units in RVLM. McKitrick DJ, et al. **Brain Res** 1996 Dec 2; 742(1-2):203-10

What are the roles of substance P and neurokinin-1 receptors in the control of negative chronotropic or negative dromotropic vagal motoneurons? A physiological and ultrastructural analysis. Massari VJ, et al. **Brain Res** 1996 Apr 9;715(1-2):197-207

Estrous cycle phase variations in visceromotor and cardiovascular responses to colonic distension in the anesthetized rat. Sapsed-Byrne S, et al. **Brain Res** 1996 Dec 2;742(1-2):10-6

Differential responses in adrenal and renal nerves to CNS osmotic stimulation. Bealer SL, et al. **Brain Res Bull** 1996; 39(4):205-9

Developmental aspects of the interaction between the controls of heart rate and respiratory rhythm--linear and nonlinear components of diverse activity states in childhood. Schubert E, et al. **Bratisl Lek Listy** 1996 Sep; 97(9):510-5

Is the short-term modulation of heart rate in teleost fish physiologically significant? Assessment by spectral analysis

techniques. Altimiras J, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1197–206

The use of data loggers to determine the energetics and physiology of aquatic birds and mammals. Butler PJ, et al. **Braz J Med Biol Res** 1995 Nov–Dec;28(11–12):1307–17

Control of heart rate during exercise in health and disease. Gallo L Jr, et al. **Braz J Med Biol Res** 1995 Nov–Dec; 28(11–12):1179–84 (29 ref.)

Heart rate variability at rest and exercise: influence of age, gender, and physical training. Gregoire J, et al. **Can J Appl Physiol** 1996 Dec;21(6):455–70

Comparative effects of acute volume expansion and short–term training on thermal and cardiovascular responses to prolonged exercise. Helyar R, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1087–94

Chronotropic response to cardiac sympathetic nerve stimulation in spontaneously hypertensive rats. Masuda Y, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):97–103

Heart rate and temperature in the snail Megalobulimus sanctipauli: role of the cardiac nerve. Romero SM, et al. **Can J Physiol Pharmacol** 1996 Dec;74(12):1362–5

Heart rate, breathing, and subjective responses of a limited–symptom panic patient to 35% carbon dioxide challenge [letter] Bakal D, et al. **Can J Psychiatry** 1996 Dec;41(10):669–70

Heart rate variability in the dog: is it too variable? Minors SL, et al. **Can J Vet Res** 1997 Apr;61(2):134–44

Electrocardiographic measures and heart rate variability in patients with familial dysautonomia. Axelrod FB, et al. **Cardiology** 1997 Mar–Apr;88(2):133–40

Physical activity influences heart rate variability and very–low–frequency components in Holter electrocardiograms. Bernardi L, et al. **Cardiovasc Res** 1996 Aug;32(2):234–7

Vagal nerve stimulation increases right ventricular contraction and relaxation and heart rate. Henning RJ, et al. **Cardiovasc Res** 1996 Nov;32(5):846–53

Heart rate variability and its sympatho–vagal modulation. Lombardi F, et al. **Cardiovasc Res** 1996 Aug;32(2):208–16 (66 ref.)

Short– and long–term reproducibility of time and frequency domain heart rate variability measurements in normal subjects. Pitzalis MV, et al. **Cardiovasc Res** 1996 Aug; 32(2):226–33

Effect of age on long–term heart rate variability. Yeragani VK, et al. **Cardiovasc Res** 1997 Jul;35(1):35–42

Heart rate and behavioral measures of attention in six–, nine–, and twelve–month–old infants during object exploration. Lansink JM, et al. **Child Dev** 1997 Aug;68(4):610–20

Pressor effects elicited from the periaqueductal grey, and dorsal and ventrolateral medulla in cats are independent from cerebellar mechanisms. Chai CY, et al. **Chin J Physiol** 1995;38(4):255–61

Nitric oxide can increase heart rate by stimulating the hyperpolarization–activated inward current, I(f). Musialek P, et al. **Circ Res** 1997 Jul;81(1):60–8

A cellular mechanism contributing to postvagal tachycardia studied in isolated pacemaker cells from cat right atrium. Wang YG, et al. **Circ Res** 1996 Jul;79(1):109–14

Long–term sequential changes in exercise capacity and chronotropic responsiveness after cardiac transplantation [see comments] Givertz MM, et al. **Circulation** 1997 Jul 1;96(1):232–7. Comment in: Circulation 1997 Jul 1;96(1):6–8.

Abnormal awake respiratory patterns are common in chronic heart failure and may prevent evaluation of autonomic tone by measures of heart rate variability. Mortara A, et al. **Circulation** 1997 Jul 1;96(1):246–52

Heart rate during obstructive sleep apnea depends on individual hypoxic chemosensitivity of the carotid body. Sato F, et al. **Circulation** 1997 Jul 1;96(1):274–81

Heart rate variability standards [letter; comment] Taylor JA, et al. **Circulation** 1997 Jan 7;95(1):280–1. Comment on: Circulation 1996 Mar 1;93(5):1043–65.

Heart rate variability in patients with atrial fibrillation is related to vagal tone. van den Berg MP, et al. **Circulation** 1997 Aug 19;96(4):1209–16

Genetic regulation of hemodynamic variables during dynamic exercise. The MCV twin study. van den Bree MB, et al. **Circulation** 1996 Oct 15;94(8):1864–9

Cardiovascular parameters: sensitivity to detect autonomic dysfunction and influence of age and sex in normal subjects. Braune S, et al. **Clin Auton Res** 1996 Feb;6(1):3–15

Decreased vagal power during treadmill walking in patients with chronic fatigue syndrome. Cordero DL, et al. **Clin Auton Res** 1996 Dec;6(6):329–33

Determinants of heart rate variability during deep breathing: basic findings and clinical applications. Diehl RR, et al. **Clin Auton Res** 1997 Jun;7(3):131–5

Estimation of fast vagal response by time–dependent analysis of heart rate variability in normal subjects. Keselbrener L, et al. **Clin Auton Res** 1996 Dec;6(6):321–7

Head–up tilt table test: how far and how long? Khurana RK, et al. **Clin Auton Res** 1996 Dec;6(6):335–41

Vagal control of heart rate variability in vasovagal syncope: studies based on 24–h electrocardiogram recordings. Lagi A, et al. **Clin Auton Res** 1997 Jun;7(3):127–30

Estimation of baroreflex sensitivity using transfer function analysis: normal values and theoretical considerations. Linden D, et al. **Clin Auton Res** 1996 Jun;6(3):157–61

Blood pressure and heart rate variability in autonomic disorders: a critical review. Omboni S, et al. **Clin Auton Res** 1996 Jun;6(3):171–82 (122 ref.)

Left–insular cortex lesions perturb cardiac autonomic tone in humans. Oppenheimer SM, et al. **Clin Auton Res** 1996 Jun;6(3):131–40

Heart rate variability in a case of pheochromocytoma. Stein PK, et al. **Clin Auton Res** 1996 Feb;6(1):41–4

Spectral analysis of blood pressure and heart rate, catecholamine and neuropeptide Y plasma levels in a new model of neurogenic orthostatic hypotension in dog. Verwaerde P, et al. **Clin Auton Res** 1996 Apr;6(2):75–82

Heart rate variability during repeated incremental head–up tilt discloses time dependence of individual autonomic dynamics. Bootsma M, et al. **Clin Cardiol** 1996 Jan; 19(1):62–8

Chronotropic incompetence—Part II: Clinical implications. Camm AJ, et al. **Clin Cardiol** 1996 Jun;19(6):503–8 (56 ref.)

Diagnosis of silent myocardial ischemia using ambulatory electrocardiographic monitoring with pedometer, analysis of heart rate, and ST loop in ambulatory electrocardiogram. Ino–Oka E, et al. **Clin Cardiol** 1996 Jun;19(6):467–72

Factors influencing heart rate variability in patients with severe aortic valve disease. Jung J, et al. **Clin Cardiol** 1997 Apr;20(4):341–4

Clinical relevance of heart rate variability. Kautzner J, et al. **Clin Cardiol** 1997 Feb;20(2):162–8 (76 ref.)

Correlative studies of heart rate and heart rate variability indices from five consecutive ambulatory electrocardiogram recordings in patients with coronary artery disease. Madias JE, et al. **Clin Cardiol** 1996 Dec; 19(12):939–44

Heart rate–independent prolongation of QTc interval in women with syndrome X. Mammana C, et al. **Clin Cardiol** 1997 Apr;20(4):357–60

Circadian rhythmic fractal scaling of heart rate variability in health and coronary artery disease. Otsuka K, et al. **Clin Cardiol** 1997 Jul;20(7):631–8

Analysis of circadian variation of blood pressure and heart rate in dexamethasone–induced hypertensive rats. Kim CY, et al. **Clin Exp Hypertens** 1996 Jan;18(1):65–76

Dopamine and sympathoadrenal activity in man. Mannelli M, et al. **Clin Exp Hypertens** 1997 Jan–Feb;19(1–2):163–79

Baroreflex control of heart rate during hypoxia and hypercapnia in chronically hypertensive rabbits. Groom AS, et al. **Clin Exp Pharmacol Physiol** 1997 Mar–Apr; 24(3–4):229–34

Non–invasive assessment of baroreflex sensitivity and relation to measures of heart rate variability in man. Pellizzer AM, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):621–4

Reproducibility of conventional and power spectral measurements of cardiovascular sympathetic activation in normal subjects. Taverner D, et al. **Clin Exp Pharmacol Physiol** 1996 Sep;23(9):804–6

Proper measurement of blood pressure and heart rate in SHRSP and WKY by an indirect volume–oscillometric method. Higashino H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S292–3

Role of baroreflex and central alpha2–adrenergic receptor systems in the diurnal variation of blood pressure and heart rate in normotensive and hypertensive rats. Yoneda Y, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S64–6

Heart rate variability and cardiac autonomic function in a case of Wegener's granulomatosis [letter] Laganà B, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):449–50

Electrocardiographic findings in female endurance athletes. Stolt A, et al. **Clin J Sport Med** 1997 Apr;7(2):85–9

Influence of exercise training on heart rate variability in post–menopausal women with elevated arterial blood pressure. Davy KP, et al. **Clin Physiol** 1997 Jan;17(1):31–40

Non–invasive evaluation of sympathovagal balance in athletes by time and frequency domain analyses of heart rate and blood pressure variability. Uusitalo AL, et al. **Clin Physiol** 1996 Nov;16(6):575–88

Isometric contraction of arm flexor muscles as a method of evaluating cardiac vagal tone in man. al–Ani M, et al. **Clin Sci (Colch)** 1997 Feb;92(2):175–80

Autonomic nervous function during haemodialysis assessed by spectral analysis of heart–rate variability. Cavalcanti S, et al. **Clin Sci (Colch)** 1997 Apr;92(4):351–9

Repeatability of spectral components of short–term blood pressure and heart rate variability during acute sympathetic activation in healthy young male subjects. Cloarec–Blanchard L, et al. **Clin Sci (Colch)** 1997 Jul; 93(1):21–8

Heart rate variability in patients with daytime sleepiness suspected of having sleep apnoea syndrome: a receiver–operating characteristic analysis. Keyl C, et al. **Clin Sci (Colch)** 1997 Apr;92(4):335–43

Reproducibility of heart rate variability measures in patients with chronic heart failure. Ponikowski P, et al. **Clin Sci (Colch)** 1996 Oct;91(4):391–8

Modulation of neurocardiac function by oesophageal stimulation in humans. Tougas G, et al. **Clin Sci (Colch)** 1997 Feb;92(2):167–74

Detecting chaos in HRV signals in human cardiac transplant recipients. Khadra LM, et al. **Comput Biomed Res** 1997 Jun;30(3):188–99

Autonomic function during hemodialysis–induced collapses with different heart rate pattern. Enzmann G, et al. **Contrib Nephrol** 1996;119:202–7

Emergence of conditioned cardiac responses to an olfactory CS paired with an acoustic startle UCS during development: form and autonomic origins. Hunt PS, et al. **Dev Psychobiol** 1997 Mar;30(2):151–63

Association between low birthweight and high resting pulse in adult life: is the sympathetic nervous system involved in programming the insulin resistance syndrome? Phillips DI, et al. **Diabet Med** 1997 Aug;14(8):673–7

Association of vagal tone with serum insulin, glucose, and diabetes mellitus—The ARIC Study. Liao D, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):211–21

Diurnal rhythms in cardiorespiratory function of the fetal baboon. Fletcher KL, et al. **Early Hum Dev** 1996 Sep 20; 46(1–2):27–42

Developmental patterns of heart rate and variability in prematurely–born infants with apnea of prematurity. Henslee JA, et al. **Early Hum Dev** 1997 Jan 3;47(1):35–50

Heart rate variability: sleep stage, time of night, and arousal influences. Bonnet MH, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 102(5):390–6

Safety of rapid–rate transcranial magnetic stimulation: heart rate and blood pressure changes. Foerster A, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 104(3):207–12

Effect of show jumping on heart rate, blood lactate and other plasma biochemical values. Art T, et al. **Equine Vet J Suppl** 1990 Jun;(9):78–82

Gait, estimated net cost of transport and heat production at different speeds in three–day–event horses. Schroter RC, et al. **Equine Vet J Suppl** 1996 Jul;(22):16–23

Effects of treadmill elevation on heart rate, blood lactate concentration and packed cell volume during graded submaximal exercise in ponies [see comments] Sexton WL, et al. **Equine Vet J Suppl** 1990 Jun;(9):57–60. Comment in: Equine Vet J Suppl 1990 Jun;(9):5–6.

A comparison of risk assessment of single and combination manual handling tasks: 2. Discomfort, rating of perceived exertion and heart rate measures. Straker LM, et al. **Ergonomics** 1997 Jun;40(6):656–69

Does appropriate endurance exercise training improve cardiac function in patients with prior myocardial infarction? Adachi H, et al. **Eur Heart J** 1996 Oct; 17(10):1511–21

Influence of residual ischaemia on heart rate variability after myocardial infarction. Cerati D, et al. **Eur Heart J** 1997 Jan;18(1):78–83

Contribution of heart rate variability to long–term risk stratification after myocardial infarction [editorial; comment] Fetsch T, et al. **Eur Heart J** 1997 May; 18(5):710–2. Comment on: Eur Heart J 1997 May;18(5):789–97.

Diastolic filling in idiopathic dilated cardiomyopathy shows a good correlation to heart rate and ejection fraction but not to blood pressure as in healthy subjects [letter; comment] Fruhwald FM, et al. **Eur Heart J** 1997 Feb; 18(2):348–9. Comment on: Eur Heart J 1996 Apr;17(4):612–8.

Heart rate variability as a means of assessing prognosis after acute myocardial infarction. A 3–year follow–up study [see comments] Quintana M, et al. **Eur Heart J** 1997 May; 18(5):789–97. Comment in: Eur Heart J 1997 May;18(5):710–2.

Changes in the QT interval and its adaptation to rate, assessed with continuous electrocardiographic recordings in patients with ventricular fibrillation, as compared to normal individuals without arrhythmias [see comments] Tavernier R, et al. **Eur Heart J** 1997 Jun;18(6):994–9. Comment in: Eur Heart J 1997 Jun;18(6):893–5.

Dynamics of the QT interval during and after exercise in healthy children. Viitasalo M, et al. **Eur Heart J** 1996 Nov; 17(11):1723–8

Cardiorespiratory and subjective responses to prolonged arm and leg exercise in healthy young and older men. Aminoff T, et al. **Eur J Appl Physiol** 1997;75(4):363–8

Changes in R–R variability before and after endurance training measured by power spectral analysis and by the effect of isometric muscle contraction. al–Ani M, et al. **Eur J Appl Physiol** 1996;74(5):397–403

Relationships between oxygen consumption and heart rate in transitory and steady states of exercise and during recovery: influence of type of exercise. Bernard T, et al. **Eur J Appl Physiol** 1997;75(2):170–6

Spectral analysis of heart rate variability during heat exposure and repeated exercise. Brenner IK, et al. **Eur J Appl Physiol** 1997;76(2):145–56

Verification of the heart rate threshold. Coen B, et al. **Eur J Appl Physiol** 1996;72(3):281–2

Evaluation of habitual physical activity from a week's heart rate monitoring in French school children. Falgairette G, et al. **Eur J Appl Physiol** 1996;74(1–2):153–61

Continuous measurement of blood pressure, heart rate and left ventricular performance during and after isometric exercise in head–out water immersion. Fujisawa H, et al. **Eur J Appl Physiol** 1996;72(5–6):548–52

Physiological strains while pushing or hauling. Garcin M, et al. **Eur J Appl Physiol** 1996;72(5–6):478–82

The relationship between preferred and optimal positioning during submaximal cycle ergometry. Heil DP, et al. **Eur J Appl Physiol** 1997;75(2):160–5

Effects of isokinetic, isotonic and isometric submaximal exercise on heart rate and blood pressure. Iellamo F, et al. **Eur J Appl Physiol** 1997;75(2):89–96

Cardiac frequency in miners recorded during four to five

work shifts. Palenciano L, et al. **Eur J Appl Physiol** 1996; 73(3–4):369–75

Effects of high altitude acclimatization on heart rate variability in resting humans. Perini R, et al. **Eur J Appl Physiol** 1996;73(6):521–8

Cold induced vasodilatation and cardiovascular responses in humans during cold water immersion of various upper limb areas. Sendowski I, et al. **Eur J Appl Physiol** 1997; 75(6):471–7

Effects of single and repeated cognitive tasks on autonomic balance as observed by an analysis of R–R intervals. Takahashi M, et al. **Eur J Appl Physiol** 1996;72(4):316–22

Effect of an aerobic training program on physical working capacity at heart rate threshold. Weir LL, et al. **Eur J Appl Physiol** 1997;75(4):351–6

Dynamic and steady state response of heart rate to orthostatic stress in normotensive and hypertensive pregnant women. Ahmad HR, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 May;66(1):31–7

Effects of exercise and CO2 inhalation on intersubject variability in ventilatory and heart rate responses to progressive hypoxia. Sato F, et al. **Eur Respir J** 1996 May; 9(5):960–7

Exercise testing and training in patients with malignant arrhythmias. Pashkow FJ, et al. **Exerc Sport Sci Rev** 1997; 25:235–69 (128 ref.)

Effects of early cerebellar removal on the classically conditioned bradycardia of adult rabbits. Ghelarducci B, et al. **Exp Brain Res** 1996 Oct;111(3):417–23

Effects of 8h of eucapnic and poikilocapnic hypoxia on middle cerebral artery velocity and heart rate in humans. Clar C, et al. **Exp Physiol** 1997 Jul;82(4):791–802

Modulation of vagal actions on heart rate produced by inhibition of nitric oxide synthase in the anaesthetized ferret. Conlon K, et al. **Exp Physiol** 1996 May;81(3):547–50

Effects of moderate hypothermia on baroreflex and pulmonary chemoreflex heart rate response in decerebrate ferrets. Zheng F, et al. **Exp Physiol** 1996 May;81(3):409–20

Slowing of ventricular rate quickly improved ventricular dysfunction and exercise intolerance in patients with chronic atrial tachycardia. Fukumoto Y, et al. **Fukuoka Igaku Zasshi** 1996 Dec;87(12):274–7

Heart rate and blood pressure variability in cardiac diseases: pharmacological implications. Cloarec–Blanchard L. **Fundam Clin Pharmacol** 1997;11(1):19–28 (98 ref.)

Baroreflex sensitivity assessed by complex demodulation of cardiovascular variability. Kim SY, et al. **Hypertension** 1997 May;29(5):1119–25

Analysis of physiological time series using wavelet transforms. Figliola A, et al. **IEEE Eng Med Biol Mag** 1997 May–Jun;16(3):74–9

Nonlinear analysis of heart rate and respiratory dynamics. Hoyer D, et al. **IEEE Eng Med Biol Mag** 1997 Jan–Feb; 16(1):31–9

Modeling and decomposition of HRV signals with wavelet transforms. Yang F, et al. **IEEE Eng Med Biol Mag** 1997 Jul–Aug;16(4):17–22

Selective discrete Fourier transform algorithm for time-frequency analysis: method and application on simulated and cardiovascular signals. Keselbrener L, et al. **IEEE Trans Biomed Eng** 1996 Aug;43(8):789–802

Spectral distortion properties of the integral pulse frequency modulation model. Nakao M, et al. **IEEE Trans Biomed Eng** 1997 May;44(5):419–26

Effects of record length selection on the accuracy of spectral estimates of heart rate variability: a simulation study. Pinna GD, et al. **IEEE Trans Biomed Eng** 1996 Jul;43(7):754–7

A real–time microprocessor QRS detector system with a 1–ms timing accuracy for the measurement of ambulatory HRV. Ruha A, et al. **IEEE Trans Biomed Eng** 1997 Mar; 44(3):159–67

Respiration response curve analysis of heart rate variability. Zhang PZ, et al. **IEEE Trans Biomed Eng** 1997 Apr; 44(4):321–5

Heart rate in female rat in response to snout contact by normal, gonadectomised and testosterone–-pretreated gonadectomised male. Kartha KN, et al. **Indian J Physiol Pharmacol** 1996 Oct;40(4):335–9

Effects of obesity, current smoking status, and alcohol consumption on heart rate variability in male white-collar workers. Kageyama T, et al. **Int Arch Occup Environ Health** 1997;69(6):447–54

Mechanical unloading properties of axial flow pumps and their effect on myocardial stunning. Waldenberger FR, et al. **Int J Artif Organs** 1995 Dec;18(12):766–71

Spectral analysis of hemodynamics during left ventricular assistance. Yambe T, et al. **Int J Artif Organs** 1996 Jun; 19(6):367–71

Parametric analysis of heart rate variability during hemodialysis. Cavalcanti S, et al. **Int J Biomed Comput** 1996 Aug;42(3):215–24

Effects of acute hyperthermia on the carotid baroreflex control of heart rate in humans. Yamazaki F, et al. **Int J Biometeorol** 1997 Jun;40(4):200–5

Heart rate and heart rate variability changes induced by right atrial pacing. Fuenmayor AJ, et al. **Int J Cardiol** 1996 Apr 19;54(1):21–5

Change of complex and periodic heart rate dynamics with change of pulmonary artery pressure in infants with left–to–right shunt lesion. Kul Yum M, et al. **Int J Cardiol** 1997 Jul 25;60(2):143–50

Abnormal passive head–up tilt test in subjects with symptoms of anxiety power spectral analysis study of heart rate and blood pressure. Piccirillo G, et al. **Int J Cardiol** 1997 Jul 25;60(2):121–31

Heart rate variability in hypertensive subjects. Piccirillo G, et al. **Int J Cardiol** 1996 Mar;53(3):291–8

Computer aided analysis of heart rate variability in brain death. Knüttgen D, et al. **Int J Clin Monit Comput** 1997 Feb;14(1):37–42

EEG asymmetry and heart rate during experience of hypnotic analgesia in high and low hypnotizables. De Pascalis V, et al. **Int J Psychophysiol** 1996 Feb–Mar; 21(2–3):163–75

Effects of psychological and physiological challenges on heart rate, T–wave amplitude, and pulse–transit time. Furedy JJ, et al. **Int J Psychophysiol** 1996 Jun–Jul; 22(3):173–83

Postprandial ambulatory blood pressure and heart rate effects in healthy elderly adults. Goldstein IB, et al. **Int J Psychophysiol** 1996 Feb–Mar;21(2–3):91–5

Relationships between children's cardiovascular stress responses and resting cardiovascular functioning 1 year later. Malpass D, et al. **Int J Psychophysiol** 1997 Feb; 25(2):139–44

Visual evoked potentials, heart rate responses and memory to emotional pictorial stimuli. Palomba D, et al. **Int J Psychophysiol** 1997 Jul;27(1):55–67

Reproducibility of the Conconi test: test repeatability and observer variations. Ballarin E, et al. **Int J Sports Med** 1996 Oct;17(7):520–4

The Conconi test: methodology after 12 years of application. Conconi F, et al. **Int J Sports Med** 1996 Oct;17(7):509–19 (65 ref.)

Heart rate response to submaximal and maximal workloads during running and swimming. Hauber C, et al. **Int J Sports Med** 1997 Jul;18(5):347–53

The pressor response to submaximal cycle ergometry while using aerodynamic handlebars. Heil DP. **Int J Sports Med** 1997 Jan;18(1):1–7

The Conconi test [letter] Hofmann P, et al. **Int J Sports Med** 1997 Jul;18(5):397–9

The Conconi test [letter] Jeukendrup AE, et al. **Int J Sports Med** 1997 Jul;18(5):393–6

Autonomic nervous control of heart rate orienting and alpha responses in dog. Li S, et al. **Integr Physiol Behav Sci** 1997 Apr–Jun;32(2):113–22

Heart rate variability in the human transplanted heart: nonlinear dynamics and QT vs RR–QT alterations during exercise suggest a return of neurocardiac regulation in long–term recovery. Meyer M, et al. **Integr Physiol Behav Sci** 1996 Oct–Dec;31(4):289–305

Heart rate during group flooding therapy for PTSD. Woodward SH, et al. **Integr Physiol Behav Sci** 1997 Jan–Mar;32(1):19–30

Blood pressure and heart rate dynamics during and after exercise in an unselected population. Sullivan PA, et al. **Ir J Med Sci** 1996 Oct–Dec;165(4):250–3

Human heart rate variability and sleep stages. Toscani L, et al. **Ital J Neurol Sci** 1996 Dec;17(6):437–9

Age–gender influence on the rate–corrected QT interval and the QT–heart rate relation in families with genotypically characterized long QT syndrome. Lehmann MH, et al. **J Am Coll Cardiol** 1997 Jan;29(1):93–9

Abnormalities in beat to beat complexity of heart rate dynamics in patients with a previous myocardial infarction. Mäkikallio TH, et al. **J Am Coll Cardiol** 1996 Oct; 28(4):1005–11

Determinants of heart rate variability. Tsuji H, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1539–46

The effect of heart rate on the slope and pressure half–time of the Doppler regurgitant velocity curve in aortic insufficiency. Gozzelino G, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug;9(4):516–26

Beat–to–beat variability of left ventricular indexes measured by acoustic quantification: influence of heart rate and respiration–-correlation with M–mode echocardiography. Seliem MA, et al. **J Am Soc Echocardiogr** 1996 May–Jun; 9(3):221–30

Heart rate recording method validated by whole body indirect calorimetry in 10–yr–old children. Bitar A, et al. **J Appl Physiol** 1996 Sep;81(3):1169–73

Role of aerobic capacity and body mass index in the age–associated decline in heart rate variability. Byrne EA, et al. **J Appl Physiol** 1996 Aug;81(2):743–50

Is respiratory sinus arrhythmia a good index of cardiac vagal tone in exercise? Casadei B, et al. **J Appl Physiol** 1996 Aug; 81(2):556–64

Cardiorespiratory kinetics during exercise of different muscle groups and mass in old and young. Chilibeck PD, et al. **J Appl Physiol** 1996 Sep;81(3):1388–94

Effects of hypoxic hypoxia on O2 uptake and heart rate kinetics during heavy exercise. Engelen M, et al. **J Appl Physiol** 1996 Dec;81(6):2500–8

Microgravity decreases heart rate and arterial pressure in humans. Fritsch–Yelle JM, et al. **J Appl Physiol** 1996 Mar; 80(3):910–4

Cardiovascular and ventilatory response to isocapnic hypoxia at sea level and at 5,050 m. Insalaco G, et al. **J Appl Physiol** 1996 May;80(5):1724–30

Central hypervolemia in the conscious rat: a model of cardiovascular deconditioning. Martel E, et al. **J Appl Physiol** 1996 Apr;80(4):1390–6

Combined heart rate and activity improve estimates of oxygen consumption and carbon dioxide production rates. Moon JK, et al. **J Appl Physiol** 1996 Oct;81(4):1754–61

Mechanisms for increasing stroke volume during static exercise with fixed heart rate in humans. Nóbrega ACL, et al. **J Appl Physiol** 1997 Sep;83(3):712–7

Airway obstruction during sleep increases blood pressure without arousal. O'Donnell CP, et al. **J Appl Physiol** 1996 Mar;80(3):773–81

Noxious stimuli do not determine reflex cardiorespiratory effects in anesthetized rabbits. Raimondi G, et al. **J Appl Physiol** 1996 Dec;81(6):2421–7

Arterial and cardiopulmonary baroreflexes in 60– to 69– vs. 18– to 36–yr–old humans [see comments] Shi X, et al. **J Appl Physiol** 1996 Jun;80(6):1903–10. Comment in: J Appl Physiol 1997 Feb;82(2):716–8.

Mitochondrial enzymes increase in muscle in response to 7–10 days of cycle exercise. Spina RJ, et al. **J Appl Physiol** 1996 Jun;80(6):2250–4

Delayed and diminished pressor response to muscle sympathetic nerve activity in the elderly. Sugiyama Y, et al. **J Appl Physiol** 1996 Mar;80(3):869–75

Capacity of circulating neutrophils to produce reactive oxygen species after exhaustive exercise. Suzuki K, et al. **J Appl Physiol** 1996 Sep;81(3):1213–22

Estimating exercise stroke volume from asymptotic oxygen pulse in humans. Whipp BJ, et al. **J Appl Physiol** 1996 Dec;81(6):2674–9

Effects of acute exposure to simulated altitude on heart rate variability during exercise. Yamamoto Y, et al. **J Appl Physiol** 1996 Sep;81(3):1223–9

Non–neurogenic periodic fluctuations in heart rate and vasomotion appearing in familial amyloid polyneuropathy (FAP) Type I (Met30). Abe M, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1–2):71–5

Heart rate variability in workers exposed to medium–frequency electromagnetic fields. Bortkiewicz A, et al. **J Auton Nerv Syst** 1996 Jul 5;59(3):91–7

Can neurons in the nucleus ambiguus selectively regulate cardiac rate and atrio–ventricular conduction? Gatti PJ, et al. **J Auton Nerv Syst** 1996 Feb 5;57(1–2):123–7

Cardiovascular autonomic nervous system tests: determination of normative values and effect of confounding variables. Gelber DA, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):40–4

Neural mechanisms accounting for the increase in blood pressure and heart rate during vagino–cervical stimulation. Gómez LE, et al. **J Auton Nerv Syst** 1996 Sep 12; 60(3):154–62

Does low–frequency variability of heart period reflect a specific parasympathetic mechanism? Grasso R, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1–2):30–8

Differential regional sympathetic responses to somatic stimulation in anesthetized dogs. Kiyono Y, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1–2):76–82

Assessment of autonomic nervous function by power spectral analysis of heart rate variability in the horse. Kuwahara M, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1–2):43–8

Preliminary evidence for the evolution in complexity of heart rate dynamics during autonomic maturation in neonatal swine. Lipsitz LA, et al. **J Auton Nerv Syst** 1997 Jul 14; 65(1):1–9

Age–related changes in baroreflex control of heart rate and sympathetic nerve activity in healthy humans. Matsukawa T, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):209–12

Is the heart "empty' at syncope? Novak V, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1–2):83–92

Effects of aging and of chronic obstructive pulmonary disease on RR interval variability. Pagani M, et al. **J Auton Nerv Syst** 1996 Jul 5;59(3):125–32

Temperature dependency of the vagal chronotropic response in the young puppy: an 'environmental–autonomic interaction'. Pickoff AS, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):107–14

The responses of skin blood flow, mean arterial pressure and R–R interval induced by cold stimulation with cold wind and ice water. Shibahara N, et al. **J Auton Nerv Syst** 1996 Nov 6;61(2):109–15

A new method of assessing cardiac autonomic function and its comparison with spectral analysis and coefficient of variation of R–R interval. Toichi M, et al. **J Auton Nerv Syst** 1997 Jan 12;62(1–2):79–84

Cardiovascular periodicities in healthy humans in the absence of breathing and under reduced chemical drive of respiration. Trzebski A, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):144–8

Interaction of heart–rate fluctuations and respiration in 12 to 14–year–old children during sleeping and waking. Unbehaun A, et al. **J Auton Nerv Syst** 1996 Mar 7; 57(3):141–3

Baroreceptor modulation of regional haemodynamic responses to acute stress in rat. Zhang ZQ, et al. **J Auton Nerv Syst** 1996 Aug 27;60(1–2):23–30

Relations between parameters of spectral power densities and deterministic chaos of heart–rate variability. Zwiener U, et al. **J Auton Nerv Syst** 1996 Mar 7;57(3):132–5

Mechanisms of circulatory depression during simulated central apneas in the anesthetized dog. Tarasiuk A, et al. **J Basic Clin Physiol Pharmacol** 1994 Jul–Dec;5(3–4):253–68

Heart rate variability: two eras of investigation [editorial; comment] Binkley PF. **J Card Fail** 1996 Sep;2(3):193–6 (18 ref.). Comment on: J Card Fail 1996 Sep;2(3):177–84. Comment on: J Card Fail 1996 Sep;2(3):185–92.

Heart rhythms, ventricular arrhythmias, and death in chronic heart failure [see comments] Ponikowski P, et al. **J Card Fail** 1996 Sep;2(3):177–83. Comment in: J Card Fail 1996 Sep;2(3):193–6.

Alternation of atrioventricular nodal conduction time during atrioventricular reentrant tachycardia: are dual pathways necessary? Amellal F, et al. **J Cardiovasc Electrophysiol** 1996 Oct;7(10):943–51

Implantable cardioverter defibrillator oversensing during periods of rate-related bundle branch block. Coyne RF, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):807–11

Effect of graded increases in parasympathetic tone on heart rate variability. Goldberger JJ, et al. **J Cardiovasc Electrophysiol** 1996 Jul;7(7):594–602

Changes in plasma epinephrine concentration and in heart rate during head-up tilt testing in patients with neurocardiogenic syncope: correlation with successful therapy with beta-receptor antagonists. Klingenheben T, et al. **J Cardiovasc Electrophysiol** 1996 Sep;7(9):802–8

Variable PR intervals: what is the rhythm? Morady F. **J Cardiovasc Electrophysiol** 1996 Dec;7(12):1234–5

High-rate atrial pacing as an innovative bridging therapy in a neonate with congenital long QT syndrome. Tanel RE, et al. **J Cardiovasc Electrophysiol** 1997 Jul;8(7):812–7

Zatebradine slows ectopic ventricular rhythms in canine heart 24 hours after coronary artery ligation. Lasker SM, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):662–9

Anxiety, antisocial behavior, and heart rate regulation in adolescent males. Mezzacappa E, et al. **J Child Psychol Psychiatry** 1997 May;38(4):457–69

Heart rate, heart rate variability, and blood pressure during perioperative stressor events in abdominal surgery. Schubert A, et al. **J Clin Anesth** 1997 Feb;9(1):52–60

Tourniquet-induced hypertension correlates with autonomic nervous system changes detected by power spectral heart rate analysis. Tetzlaff JE, et al. **J Clin Anesth** 1997 Mar; 9(2):138–42

Heart rate during development in the turtle embryo: effect of temperature. Birchard GF, et al. **J Comp Physiol [B]** 1996;166(8):461–6

Heart rate and plasma lactate responses during submerged swimming and trained diving in California sea lions, Zalophus californianus. Ponganis PJ, et al. **J Comp Physiol [B]** 1997 Jan;167(1):9–16

Circadian control of heart rate in young insulin-dependent diabetes mellitus patients. Hoffman RP, et al. **J Diabetes Complications** 1996 Jul-Aug;10(4):220–2

Comparison of 12-lead repolarization parameters during follow-up study in middle-aged sportsmen and in patients during acute myocardial infarction. Assanelli D, et al. **J Electrocardiol** 1996;29 Suppl:73–7

Ventricular tachycardia versus ventricular fibrillation. Discrimination by current antitachycardia devices. Caswell SA, et al. **J Electrocardiol** 1996;29 Suppl:160–1

R wave amplitude in ischemia, injury, and infarction. Plenary address. Childers R. **J Electrocardiol** 1996;29 Suppl:171–8

Stratification of time-frequency abnormalities in the signal-averaged high-resolution ECG in postinfarction patients with and without ventricular tachycardia and congenital long QT syndrome. Couderc JP, et al. **J Electrocardiol** 1996;29 Suppl:180–8

Circadian heart rate variability rhythm in shift workers. Freitas J, et al. **J Electrocardiol** 1997 Jan;30(1):39–44

Defibrillation success is associated with myocardial organization. Spatial coherence as a new method of quantifying the electrical organization of the heart. Hsia PW, et al. **J Electrocardiol** 1996;29 Suppl:189–97

Population-based study of heart rate variability and prevalent myocardial infarction. The Atherosclerosis Risk in Communities Study. Liao D, et al. **J Electrocardiol** 1996 Jul;29(3):189–98

Evaluation of novel measurement methods for detecting heterogeneous repolarization. MacLeod RS, et al. **J Electrocardiol** 1996;29 Suppl:145–53

Intracardiac electrogram transformation. Morphometric implications for implantable devices. Morris MM, et al. **J Electrocardiol** 1996;29 Suppl:124–9

Heart rate control in infants at risk. Patzak A, et al. **J Electrocardiol** 1996;29 Suppl:214

Postnatal maturation of autonomic modulation of heart rate. Assessments of parasympathetic and sympathetic efferent function in the developing canine heart. Pickoff AS, et al. **J Electrocardiol** 1996;29 Suppl:215–22

Data preprocessing in spectral analysis of heart rate variability. Handling trends, ectopy, and electrical noise [editorial] Ramanathan A, et al. **J Electrocardiol** 1996 Jan; 29(1):45–7

Heart rate variability in patients with mild heart failure due to coronary artery disease. Comparison of patients with and without prior myocardial infarction. Ristimäe T, et al. **J Electrocardiol** 1996;29 Suppl:162–7

Are serial Holter QT, late potential, and wavelet measurement clinically useful? Rubel P, et al. **J Electrocardiol** 1996;29 Suppl:52–61 (36 ref.)

Heart rate variability in myocardial ischemia during daily life. Sroka K, et al. **J Electrocardiol** 1997 Jan;30(1):45–56

A:V = 1:1 cardiac arrhythmia detection by VA interval analysis. Stevenson SA, et al. **J Electrocardiol** 1996;29 Suppl:198–201

Automated analysis of intracardiac electrograms obtained during extrastimulus tests using a three-dimensional electrophysiology model. Tong DA, et al. **J Electrocardiol** 1996;29 Suppl:202–13

Heart rates of northern elephant seals diving at sea and resting on the beach. Andrews RD, et al. **J Exp Biol** 1997 Aug; 200 (Pt 15):2083–95

Mnemonic search, but not arithmetic transformation, is associated with psychophysiological inhibition. Jennings JR, et al. **J Exp Psychol Hum Percept Perform** 1997 Feb; 23(1):154–67

Exercise capacity of heart transplant recipients: the importance of chronotropic incompetence. Gullestad L, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1075–83

Determinants of depressed left ventricular ejection fraction in pure mitral stenosis with preserved sinus rhythm. Surdacki A, et al. **J Heart Valve Dis** 1996 Jan;5(1):1–9

Hypertension without cardiac hypertrophy does not induce a cardiac baroreflex deficit. Banting JD, et al. **J Hypertens** 1996 Oct;14(10):1209–14

Spontaneous cardiac baroreceptor reflex and regional circulations in conscious rats. Ducher M, et al. **J Hypertens** 1996 Jul;14(7):865–9

Heart rate and the cardiovascular risk. Palatini P, et al. **J Hypertens** 1997 Jan;15(1):3–17 (139 ref.)

Cellular and extracellular remodeling with the development and recovery from tachycardia-induced cardiomyopathy: changes in fibrillar collagen, myocyte adhesion capacity and proteoglycans. Spinale FG, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1591–608

RM and Beaux: reductions in cardiac activity in response to a pet snake. Eddy TJ. **J Nerv Ment Dis** 1996 Sep; 184(9):573–5

Cardiac autonomic function during sleep in several neuropsychiatric disorders. Ferini-Strambi L, et al. **J Neurol** 1997 Apr;244(4 Suppl 1):S29–36

Autonomic function in narcolepsy: power spectrum analysis of heart rate variability. Ferini-Strambi L, et al. **J Neurol** 1997 Apr;244(4):252–5

Analysis of heart rate variability demonstrates effects of development on vagal modulation of heart rate in healthy children [see comments] Goto M, et al. **J Pediatr** 1997 May; 130(5):725–9. Comment in: J Pediatr 1997 May;130(5):691–3.

Behavioral sleep states in very low birth weight preterm neonates: relation to neonatal health and vagal maturation. Doussard-Rossevelt J, et al. **J Pediatr Psychol** 1996 Dec; 21(6):785–802

Cardiorespiratory reactivity during the Brazelton Scale in term and preterm infants. Lester BM, et al. **J Pediatr Psychol** 1996 Dec;21(6):771–83

Reduction in heart rate variability in patients with systemic lupus erythematosus. Laversuch CJ, et al. **J Rheumatol** 1997 Aug;24(8):1540–4

Salivary cortisol response to a 30 mn submaximal test adjusted to a constant heart rate. Lac G, et al. **J Sports Med Phys Fitness** 1997 Mar;37(1):56–60

Effects of mental stress on myocardial ischemia during daily life. Gullette EC, et al. **JAMA** 1997 May 21;277(19):1521–6

Decreased heart rate variability in patients with diabetes mellitus and ischemic heart disease. Fujimoto Y, et al. **Jpn Circ J** 1996 Dec;60(12):925–32

Heart rate variability and head-up tilt testing in patients with syncope of undetermined etiology. Takase B, et al. **Jpn Circ J** 1996 Nov;60(11):841–52

New algorithms for real-time, 24 hr continuous and noise-adjusted power spectral analysis of heart rate and blood pressure fluctuations in conscious rats. Nagai R, et al. **Jpn J Pharmacol** 1996 Dec;72(4):355–64

The effects of noxious mechanical stimulation on heart rate, mean arterial blood pressure and cytotoxic activity of splenic natural killer cells in anesthetized rats. Ohashi-Kimura A. **Jpn J Vet Res** 1996 Aug;44(2):129–30

Autonomic nervous function in mice and voles (Microtus arvalis): investigation by power spectral analysis of heart rate variability. Ishii K, et al. **Lab Anim** 1996 Oct; 30(4):359–64

Alpha 1- and beta-adrenergic and muscarinic-cholinergic regulation in the spontaneous beating and Ca2+ oscillations in cultured neonatal rat cardiac myocytes. Takemura H, et al. **Life Sci** 1996;59(14):PL221–6

Practical problems of determining the dimensions of heart rate data. Hoyer D, et al. **Med Biol Eng Comput** 1997 Jan; 35(1):27–32

A multivariate time-variant AR method for the analysis of heart rate and arterial blood pressure. Di Virgilio V, et al. **Med Eng Phys** 1997 Mar;19(2):109–24

Role of pulse wave velocity for assessing autonomic nervous system activities in reference to heart rate variability. Okada M, et al. **Med Inf (Lond)** 1996 Jan-Mar;21(1):81–90

Heart rate performance curve during incremental cycle ergometer exercise in healthy young male subjects. Hofmann P, et al. **Med Sci Sports Exerc** 1997 Jun; 29(6):762–8

Exercise mode and gender comparisons of energy expenditure at self-selected intensities. Kravitz L, et al. **Med Sci Sports Exerc** 1997 Aug;29(8):1028–35

Eccentric exercise augments the cardiovascular response to static exercise. Miles MP, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):457–66

Heart rate control during exercise by baroreceptors and skeletal muscle afferents. O'Leary DS. **Med Sci Sports Exerc** 1996 Feb;28(2):210–7 (55 ref.)

Heart rate reserve is equivalent to %VO2 reserve, not to %VO2max. Swain DP, et al. **Med Sci Sports Exerc** 1997 Mar;29(3):410–4

Double product response is accelerated above the blood lactate threshold. Tanaka H, et al. **Med Sci Sports Exerc** 1997 Apr;29(4):503–8

Respiratory-dependent laser-Doppler flux motion in different skin areas and its meaning to autonomic nervous control of the vessels of the skin. Mück-Weymann ME, et al. **Microvasc Res** 1996 Jul;52(1):69–78

Sympathetic skin response and R-R interval variability in multiple system atrophy and idiopathic Parkinson's disease. Bordet R, et al. **Mov Disord** 1996 May;11(3):268–72

Autonomic evaluation by means of standard tests and power spectral analysis in multiple sclerosis. Linden D, et al. **Muscle Nerve** 1997 Jul;20(7):809–14

Characterization of single-unit activity in the mediodorsal nucleus of the thalamus during expression of differential heart rate conditioning in the rabbit. Chachich M, et al. **Neurobiol Learn Mem** 1997 Mar;67(2):129–41

Arousal-induced modulation of memory storage processes in humans. Nielson KA, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):133–42

Sleep state, cardiorespiratory and electrocortical activity in infants with transposition of great vessels. Sahni R, et al. **Neuropediatrics** 1997 Jun;28(3):162–7

Heart rate changes during sleep in normal two-month-old infants. Nogues B, et al. **Neurophysiol Clin** 1996; 26(6):414–22

Vagal activity predicts eyeblink conditioning in human subjects. Tapp W, et al. **Neuroreport** 1997 Mar 24; 8(5):1203–7

Influence of various types of species-specific acoustic signals on the heart rate of mammals. Movchan VN. **Neurosci Behav Physiol** 1996 Jul-Aug;26(4):295–300

Fiber types of the lingual branch of the trigeminal nerve, chorda tympani, lingual-tonsillar and pharyngeal branches of the glossopharyngeal nerve, and superior laryngeal nerve and their relation to the cardiovascular responses in rats. Hanamori T, et al. **Neurosci Lett** 1996 Nov 15;219(1):49–52

Decreased heart rate by acupuncture stimulation in humans via facilitation of cardiac vagal activity and suppression of cardiac sympathetic nerve. Nishijo K, et al. **Neurosci Lett** 1997 May 23;227(3):165–8

Temporal relationship between dynamic heart rate variability and electroencephalographic activity during sleep in man. Otzenberger H, et al. **Neurosci Lett** 1997 Jul 4;229(3):173–6

Circadian rhythms of arterial pressure, heart rate and oral temperature in truck drivers. Stoynev AG, et al. **Occup Med (Oxf)** 1997 Apr;47(3):151–4

Heart rate variability in post infarction patients [letter; comment] Acanfora D, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):141–3. Comment on: Pacing Clin Electrophysiol 1996 Mar;19(3):342–7.

Dissimilar right atrial rhythms: a case report. Bhagwat AR, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1363–4

Assessment of time domain and spectral components of heart rate variability immediately before ischemic ST segment depression episodes. Dilaveris PE, et al. **Pacing Clin Electrophysiol** 1996 Sep;19(9):1337–45

Rate-drop response programming. Gammage MD. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):841–3

Autonomic nervous system activity during tilt testing in syncopal patients, estimated by power spectral analysis of heart rate variability. Kochiadakis GE, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1332–41

Comparison of continuously recorded sensor and sinus rates during daily life activities and standardized exercise testing: efficacy of automatically optimized rate adaptive dual sensor pacing to simulate sinus rhythm. Lau CP, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1672–7

Mechanisms of heart rate and arterial blood pressure control: implications for the pathophysiology of neurocardiogenic syncope. Quan KJ, et al. **Pacing Clin Electrophysiol** 1997 Mar;20(3 Pt 2):764–74 (37 ref.)

Heart rate variability after cardiac transplantation in humans. Ramaekers D, et al. **Pacing Clin Electrophysiol** 1996 Dec; 19(12 Pt 1):2112–9

Changes in heart rate variability with age. Reardon M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1863–6

Age and sex related changes in heart rate to ventilation coupling: implications for rate adaptive pacemaker algorithms. Rickli H, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):104–11

Improving accelerometer-based rate adaptive pacing by means of second-generation signal processing. Schmidt M, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1698–703

Comparison of bipolar atrial electrogram amplitude in sinus rhythm, atrial fibrillation, and atrial flutter. Wood MA, et al. **Pacing Clin Electrophysiol** 1996 Feb;19(2):150–6

Cardiovascular reactivity to psychological stress may enhance subsequent pain sensitivity. Caceres C, et al. **Pain** 1997 Feb;69(3):237–44

Normal ranges of heart rate variability during infancy and childhood. Massin M, et al. **Pediatr Cardiol** 1997 Jul-Aug; 18(4):297–302

Spectral pattern of neonatal cerebral blood flow velocity: comparison with spectra from blood pressure and heart rate. Reynolds KJ, et al. **Pediatr Res** 1997 Feb;41(2):276–84

Respiratory sinus arrhythmia in blood phobic subjects. Angrilli A, et al. **Percept Mot Skills** 1997 Apr;84(2):505–6

Baseline respiratory sinus arrhythmia and heart-rate responses during auditory stimulation of children with

attention-deficit hyperactivity disorder. Shibagaki M, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):967-75

Heart rate, blood pressure, and running speed responses to mesencephalic locomotor region stimulation in anesthetized rats. Chong RK, et al. **Pflugers Arch** 1997 Jul;434(3):280-4

Behavioral, cardiac and cortisol responses to brief peer separation and reunion in cattle. Boissy A, et al. **Physiol Behav** 1997 May;61(5):693-9

Cardiorespiratory components of defense reaction elicited from paraventricular nucleus. Duan YF, et al. **Physiol Behav** 1997 Feb;61(2):325-30

A new method for aversive Pavlovian conditioning of heart rate in rhesus monkeys. Kalin NH, et al. **Physiol Behav** 1996 Oct;60(4):1043-6

Development of heart inter-beat interval variability in preweanling rats: effects of exposure to alcohol and hypoxia. Kelly SJ, et al. **Physiol Behav** 1997 Feb; 61(2):231-41

Artificial eggs: measuring heart rate and effects of disturbance in nesting penguins. Nimon AJ, et al. **Physiol Behav** 1996 Sep;60(3):1019-22

Application of a radiotelemetry system for chronic measurement of blood pressure, heart rate, EEG, and activity in the chicken. Savory CJ, et al. **Physiol Behav** 1997 Jun;61(6):963-9

The effect of vocalization on the heart rate response to mental arithmetic. Seraganian P, et al. **Physiol Behav** 1997 Aug; 62(2):221-4

Habituation of airpuff-elicited cardiovascular responses in the spontaneously hypertensive rat. Taylor BK, et al. **Physiol Behav** 1996 Sep;60(3):919-25

24-hour recordings of blood pressure, heart rate and behavioural activity in rabbits by radio-telemetry: effects of feeding and hypertension. van den Buuse M, et al. **Physiol Behav** 1997 Jul;62(1):83-9

Physiological responses of red deer (Cervus elaphus) to conditions experienced during road transport. Waas JR, et al. **Physiol Behav** 1997 Jun;61(6):931-8

Time to dP/dtmax reflects both inotropic and chronotropic properties of cardiac contraction: a conscious dog study. Adler D, et al. **Physiol Meas** 1996 Nov;17(4):287-95

Comparison of different algorithms for evaluation of respiratory sinus arrhytmia: cross-correlation function histogram analysis and regression analysis. Schmitz JM, et al. **Physiol Res** 1995;44(3):197-203

Cardiovascular and neuroendocrine adjustment to public speaking and mental arithmetic stressors. Al'Absi M, et al. **Psychophysiology** 1997 May;34(3):266-75

Cardiovascular responses during effortful active coping and acute experience of anger in women. Bongard S, et al. **Psychophysiology** 1997 Jul;34(4):459-66

Relationships between startle and cardiovascular reactivity. Gautier CH, et al. **Psychophysiology** 1997 Jan;34(1):87-96

Bradycardia during baroreflex stimulation and active or passive stressor tasks: cardiorespiratory fitness and hostility. Graham RE, et al. **Psychophysiology** 1996 Sep;33(5):566-75

Fear and the startle reflex: blink modulation and autonomic response patterns in animal and mutilation fearful subjects. Hamm AO, et al. **Psychophysiology** 1997 Jan;34(1):97-107

Psychophysiological response of ADHD children to reward and extinction. Iaboni F, et al. **Psychophysiology** 1997 Jan; 34(1):116-23

Phase-sensitive interaction of cardiac and respiratory timing in humans. Jennings JR, et al. **Psychophysiology** 1996 Sep; 33(5):514-21

Sensitivity to mechanical stimuli and the role of general sensory and perceptual processes in heartbeat detection. Knapp K, et al. **Psychophysiology** 1997 Jul;34(4):467-73

Defensive hostility and anger expression: relationship to additional heart rate reactivity during active coping. Larson MR, et al. **Psychophysiology** 1997 Mar;34(2):177-84

Autonomic, electroencephalographic, and myogenic activity accompanying startle and its habituation during mid-childhood. Ornitz EM, et al. **Psychophysiology** 1996 Sep;33(5):507-13

Autonomic interactions and chronotropic control of the heart: heart period versus heart rate. Quigley KS, et al. **Psychophysiology** 1996 Sep;33(5):605-11

Influence of beliefs about heart rate and actual heart rate on heartbeat counting. Ring C, et al. **Psychophysiology** 1996 Sep;33(5):541-6

Ten-year stability of cardiovascular responses to laboratory stressors. Sherwood A, et al. **Psychophysiology** 1997 Mar; 34(2):185-91

Social determinants of cardiovascular reactivity: effects of incentive to exert influence and evaluative threat. Smith TW, et al. **Psychophysiology** 1997 Jan;34(1):65-73

Reproducibility of blood pressure and heart rate reactivity: a meta-analysis. Swain A, et al. **Psychophysiology** 1996 Mar;33(2):162-74

Anticipatory EMG responses of pericranial muscles in relation to heart rate during a warned simple reaction time task. van Boxtel A, et al. **Psychophysiology** 1996 Sep; 33(5):576-83

Does the heart know what the ears hear? A heart rate analysis of auditory selective attention. van der Molen MW, et al. **Psychophysiology** 1996 Sep;33(5):547-54

Attentional modulation of the cardiac defense response in humans. Vila J, et al. **Psychophysiology** 1997 Jul;34(4):482-7

Left movers' advantage in heartbeat discrimination: a replication and extension. Violani C, et al. **Psychophysiology** 1996 May;33(3):234-8

Autonomic activity in relation to cerebrospinal fluid neurochemistry in obsessive and disruptive children and adolescents. Zahn TP, et al. **Psychophysiology** 1996 Nov; 33(6):731-9

Heart rate variability in patients with coronary artery disease: differences in patients with higher and lower depression scores. Krittayaphong R, et al. **Psychosom Med** 1997 May-Jun;59(3):231-5

Emotional reactivity, defensiveness, and ambulatory cardiovascular response at work. Melamed S. **Psychosom Med** 1996 Sep-Oct;58(5):500-7

Changes of blood pressure responsiveness in rats exposed in utero and perinatally to a high-salt environment. Argüelles J, et al. **Regul Pept** 1996 Oct 8;66(1-2):113-5

Developmental patterns of O2 consumption, heart rate and O2 pulse in unturned eggs. Pearson JT, et al. **Respir Physiol** 1996 Jan;103(1):83-7

Cardiovascular autonomic regulation in asthmatic children evidenced by spectral analysis of heart rate and blood pressure variability. Jartti TT, et al. **Scand J Clin Lab Invest** 1996 Oct;56(6):545-54

Relationships of oxygen uptake, heart rate, and ratings of perceived exertion in persons with paraplegia during functional neuromuscular stimulation assisted ambulation. Jacobs PL, et al. **Spinal Cord** 1997 May;35(5):292-8

Circadian variations of blood pressure and heart rate early and late after heart transplantation. Bracht C, et al. **Transplantation** 1996 Oct 27;62(8):1187-90

Heart rate variability in BSE [letter] Austin AR, et al. **Vet Rec** 1996 Dec 21-28;139(25):631

Short-term frequency and time domain analysis of heart rate variability in type I diabetic subjects. Roithinger FX, et al. **Wien Klin Wochenschr** 1996;108(5):133-6

Heart rate and blood lactate responses to submaximal treadmill exercise in the normally performing standardbred trotter--age and sex variations and predictability from the total red blood cell volume. Persson SG. **Zentralbl Veterinarmed A** 1997 May;44(3):125-32

[Influence of different combination of mental activity and respiratory cycle on heart rate variability] Sun FL, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Mar; 16(3):153-5 (Eng. Abstr.) **(Chi)**

[Determination of systolic left ventricular time interval using the doppler technique. Analysis of aortic flow spectrum with transthoracic echocardiography] Menzel T, et al. **Arzneimittelforschung** 1996 Feb;46(2):228-34 (Eng. Abstr.) **(Ger)**

[A method for measuring QT and T duration and beat to beat variability] Neupert H, et al. **Biomed Tech (Berl)** 1997 Apr;42(4):85-9 (Eng. Abstr.) **(Ger)**

[Effect of changed extracellular K(+) and Mg(2+)-concentration on intracellular Ca(2+) homeostasis, contraction coupling and force-frequency relations in the human myocardium] Schwinger RH, et al. **Herz** 1997 Jun;22 Suppl 1:18-27 (Eng. Abstr.) **(Ger)**

[Heart rate variability in patients with sleep associated breathing disorders] Bauer T, et al. **Pneumologie** 1997 Aug; 51 Suppl 3:736-9 (Eng. Abstr.) **(Ger)**

[Deterministic-chaotic and spectral-functional analysis of heart rate and respiratory movements] Zwiener U, et al. **Pneumologie** 1997 Apr;51 Suppl 2:415-22 (48 ref.) (Eng. Abstr.) **(Ger)**

[Heart rate, blood lactate concentration and subjective stress perception in submaximal running: new nomograms for assessment of endurance capacity] Held T, et al. **Schweiz Med Wochenschr** 1997 Jun 7;127(23):978-87 (Eng. Abstr.) **(Ger)**

[Nonlinear dynamics in regulation of heart rate in healthy infants] Mrowka R, et al. **Wien Med Wochenschr** 1996; 146(13-14):313-6 (Eng. Abstr.) **(Ger)**

[Sleep structure in relation to respiration and heart rate in children in puberty] Unbehaun A, et al. **Wien Med Wochenschr** 1996;146(13-14):329-31 (Eng. Abstr.) **(Ger)**

[Influence of the dead space induced by the face mask on the measure of heart rate variability] Furutani Y, et al. **J Cardiol** 1997 Mar;29(3):171-6 (Eng. Abstr.) **(Jpn)**

[Exercise electrocardiography for cardiovascular functional evaluation] Yoshida H, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:532-5 (11 ref.) **(Jpn)**

[Relationships between heart rate variabilities and psychosomatic activities of centenarians in Tokyo] Shimizu K, et al. **Nippon Ronen Igakkai Zasshi** 1996 Aug; 33(8):613-5 **(Jpn)**

[Effects of repetitive physical training on neurogenic regulation of heart rate in healthy subjects] Takayanagi K, et al. **Nippon Seirigaku Zasshi** 1997;59(4):139-54 **(Jpn)**

[Spectrum analysis of heart rate variability for the assessment of training effects] Ishida R, et al. **Rinsho Byori** 1997 Jul; 45(7):685-8 (Eng. Abstr.) **(Jpn)**

[Tension measurement of pulse pressure of herniation in children] Stachowska-Tomczak B, et al. **Neurol Neurochir Pol** 1996 May-Jun;30(3):443-55 (Eng. Abstr.) **(Pol)**

[Relationship between heart rate and general mortality and that caused by cardiovascular diseases] Pytlak A, et al. **Przegl Lek** 1997;54(1):25-30 (Eng. Abstr.) **(Pol)**

[The effect of orthostatic provocation on the spectral pattern of heart rate variability in healthy subjects] Rozentryt P, et al. **Przegl Lek** 1996;53(7):534-9 (Eng. Abstr.) **(Pol)**

[Effects of age, sex and coronary heart disease on the autonomic modulation of the heart] Barbosa PR, et al. **Arq Bras Cardiol** 1996 Nov;67(5):325-9 (Eng. Abstr.) **(Por)**

[Circadian patterns of heart rate variability in patients with dysautonomia] Freitas J, et al. **Rev Port Cardiol** 1997 Mar; 16(3):313-5 **(Por)**

[Is autonomic control of the heart rate at rest altered by detraining? A study of heart rate variability in professional soccer players after the pretraining period and after the preparatory period for competitions] Rebelo AN, et al. **Rev Port Cardiol** 1997 Jun;16(6):535-41, 508 (Eng. Abstr.) **(Por)**

[Effect of vagotomy on heart rate in intact and sympathectomized rats of different ages] Zefirov TL, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):21-4 **(Rus)**

[Age-related vagal regulation features of chronotropic heart function in sympathectomized and intact rats] Zefirov TL, et al. **Biull Eksp Biol Med** 1997 Jun;123(6):703-6 **(Rus)**

[Spatial organization of cortical electric activity in voluntary regulation of the heart rate] Glazkova VA, et al. **Fiziol Cheloveka** 1996 Sep-Oct;22(5):104-8 **(Rus)**

[The circadian variability of the rhythm of cardiac activity in healthy schoolchildren] Kupriianova OO, et al. **Fiziol Cheloveka** 1997 May-Jun;23(3):34-7 **(Rus)**

[A method for studying and automated analysis of the regulation of heart rate] Kuterman EM. **Fiziol Cheloveka** 1996 Sep-Oct;22(5):128-31 **(Rus)**

[The identification of the human functional state during night sleep by the heart rhythm indices] Bashmakov MIu, et al. **Fiziol Zh Im I M Sechenova** 1996 May-Jun;82(5-6):43-7 (Eng. Abstr.) **(Rus)**

[The effect of striatal damage on cardiointervalogram dynamics and its circadian fluctuations in rats] Beler EV, et al. **Fiziol Zh Im I M Sechenova** 1995 Oct;81(10):26-31 (Eng. Abstr.) **(Rus)**

[Enkephalin participation in the regulatory pattern of the vagus influence on cardiac rhythm in cats during the volley stimulation of the vagus nerve] Pokrovskiĭ VM, et al. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):108-14 (Eng. Abstr.) **(Rus)**

[The components of the negative chronotropic effect of the vagus nerve on the heart and a method for their definition] Sheĭkh-Zade IuR, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct-Nov;82(10-11):58-63 (Eng. Abstr.) **(Rus)**

[Geomagnetic field effects on circadian variability of cardiac rhythm] Makarov LM. **Klin Med (Mosk)** 1997;75(2):22-6 (Eng. Abstr.) **(Rus)**

[The analysis of R-R intervals variability in assessment of autonomic regulation of cardiac rhythm (review of some data reported at the XVII and XVIII Congresses of European Cardiology Society)] Stepura OB, et al. **Klin Med (Mosk)** 1997;75(4):57-9 **(Rus)**

[The effect of different factors on cardiac rhythm variability in patients with arterial hypertension] Riabykina GV, et al. **Ter Arkh** 1997;69(3):55-8 (Eng. Abstr.) **(Rus)**

[Variability of the heart rate: its physiopathological basis and its use as prognostic index after acute myocardial infarction] Vukasovic JL, et al. **Rev Med Chil** 1995 Nov; 123(11):1412-7 (26 ref.) (Eng. Abstr.) **(Spa)**

[The psychophysiological assessment of the functional status of a pilot under different conditions of piloting] Horbunov VV. **Fiziol Zh** 1996;42(1-2):73-8 (Eng. Abstr.) **(Ukr)**

RADIATION EFFECTS

Exposure to extremely-low-frequency electromagnetic fields and radiofrequency radiation: cardiovascular effects in humans. Jauchem JR. **Int Arch Occup Environ Health** 1997; 70(1):9-21 (160 ref.)

Age does not affect thermal and cardiorespiratory responses to microwave heating in calorically restricted rats. Ryan KL, et al. **Shock** 1997 Jul;8(1):55-60

HEART RATE, FETAL

Beat-to-beat variability is important in diagnosing a compromised fetus [letter] Goodlin RC. **Am J Obstet Gynecol** 1997 Aug;177(2):480

The electronic evaluation of the fetal heart rate. Preliminary report. 1958 [classical article] Hon EH. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):747-8

Fetal cerebral, circulatory, and metabolic responses during heart rate decelerations with umbilical cord compression. Richardson BS, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):929-36

Changes in the PR interval--fetal heart rate relationship of the electrocardiogram during fetal compromise in chronically instrumented sheep. van Wijngaarden WJ, et al. **Am J Obstet Gynecol** 1996 Sep;175(3 Pt 1):548-54

Blood pressure and HR in the fetal lamb: relationship to hypoglycemia, hypoxemia, and growth restriction. Daniel SS, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1415-21

Characteristics of fetal heart rate changes during the expulsive stage of bovine parturition in relation to fetal outcome. Jonker FH, et al. **Am J Vet Res** 1996 Sep; 57(9):1373-81

Absence of fetal corpus callosum associated with intrapartum cardiotocographic nonreactivity. Cincotta R, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):450-2

Early amniotomy increases the frequency of fetal heart rate abnormalities. Amniotomy Study Group. Goffinet F, et al. **Br J Obstet Gynaecol** 1997 May;104(5):548-53

What is the normal heart rate of a term fetus? [letter]

Manassiev N. **Br J Obstet Gynaecol** 1996 Dec; 103(12):1272–3

Fetal neurobehavioral development. DiPietro JA, et al. **Child Dev** 1996 Oct;67(5):2553–67

Fetal antecedents of infant temperament. DiPietro JA, et al. **Child Dev** 1996 Oct;67(5):2568–83

The diurnal rhythm in fetal heart rate in a twin pregnancy with discordant anencephaly: comparison with three normal twin pregnancies. Lunshof S, et al. **Early Hum Dev** 1997 Apr 25;48(1–2):47–57

Fetal heart rate changes and cerebral oxygenation measured by near–infrared spectroscopy during the first stage of labour. Aldrich CJ, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Feb;64(2):189–95

Fetal pulse oximetry and non–reassuring heart rate. Butterwegge M. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72 Suppl:S63–6

Fetal pulse oximetry and fetal heart rate monitoring during stage II of labour. Langer B, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72 Suppl:S57–61

The effect of early second stage bradycardia on newborn status. Loghis C, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Apr;72(2):149–52

Automated analysis of antepartum fetal heart rate in relation to fetal rest–activity states: a longitudinal study of uncomplicated pregnancies using the Sonicaid System 8000. Mantel R, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jan;71(1):41–51

Fetal heart rate tracings: observers versus computer assessment. Todros T, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1–2):83–6

Fetal heart rate patterns in pregnancies complicated by maternal diabetes. Weiner Z, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27;70(2):111–5

Fetal heart rate decelerations precede a decrease in fetal oxygen content. Izumi A, et al. **Gynecol Obstet Invest** 1997; 44(1):26–31

Spectral analysis of beat–to–beat intervals of the fetal heart obtained by Doppler ultrasound. Kimura Y, et al. **Gynecol Obstet Invest** 1996;41(1):5–9

Fetal heart rate and umbilico–placental Doppler flow velocity waveforms in early pregnancies with a chromosomal abnormality and/or an increased nuchal translucency thickness. Jauniaux E, et al. **Hum Reprod** 1996 Feb;11(2):435–9

The effect of behavioral states on fetal heart rate and middle cerebral artery flow–velocity waveforms in normal full–term fetuses. Shono M, et al. **Int J Gynaecol Obstet** 1997 Sep;58(3):275–80

Principles of nonstress testing in pregnancy. Myrick T, et al. **J Fam Pract** 1996 Nov;43(5):443–8 (31 ref.)

Implications of prolonged fetal heart rate deceleration during the second stage of labor. Wu RW, et al. **J Formos Med Assoc** 1996 Mar;95(3):231–5

Transient bradycardia in a mouse model for the oromandibulofacial limb hypogenesis syndrome following chorionic villus sampling. Chang HH, et al. **J Hand Surg [Br]** 1997 Apr;22(2):243–9

Jarisch–Herxheimer reaction [letter; comment] Murray ML. **J Obstet Gynecol Neonatal Nurs** 1996 Nov–Dec;25(9):731 . Comment on: J Obstet Gynecol Neonatal Nurs 1996 Jun;25(5):383–6.

Fetal pH value determined by cordocentesis: an independent predictor of the development of antepartum fetal heart rate decelerations in growth retarded fetuses with absent end–diastolic velocity in umbilical artery. Arduini D, et al. **J Perinat Med** 1996;24(6):601–7

Fractal analysis: a new method for evaluating fetal heart rate variability. di Renzo GC, et al. **J Perinat Med** 1996; 24(3):261–9

Intraventricular hemorrhage and fetal heart rate in very low birth weight infants. Casey BM, et al. **J Perinatol** 1997 May–Jun;17(3):208–12

Computerized analysis of fetal heart rate changes after antepartum external cephalic version. Weiner Z, et al. **J Reprod Med** 1996 Sep;41(9):680–4

The effect of different sampling intervals on the measurement of intrapartum fetal heart rate variability [letter; comment] Bernardes J, et al. **Obstet Gynecol** 1997 Aug;90(2):318–9. Comment on: Obstet Gynecol 1997 Apr;89(4):577–80.

The predictive value of first–trimester embryonic heart rates in infertility patients. Qasim SM, et al. **Obstet Gynecol** 1997 Jun;89(6):934–6

The effect of different sampling intervals on the measurement of intrapartum fetal heart rate variability [see comments] Wilcox MA, et al. **Obstet Gynecol** 1997 Apr;89(4):577–80 . Comment in: Obstet Gynecol 1997 Aug;90(2):318–9.

Interfetal heart rate and size variation in first–trimester multifetal pregnancies and heart rate of surviving fetuses after fetal reduction. Zimmer EZ, et al. **Ultrasound Obstet Gynecol** 1997 Apr;9(4):253–6

[Fetal heart rate measurement and sonographic fetometry for determination of fetal age in sheep] Chavez Moreno J, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Nov; 103(11):478–80 (Eng. Abstr.) **(Ger)**

[Real–time ultrasonic pregnancy diagnosis (B–mode) in sheep. 1. Frequent examinations during the first month of pregnancy] Kaulfuss KH, et al. **Tierarztl Prax** 1996 Oct; 24(5):443–52 (Eng. Abstr.) **(Ger)**

[The perinatal risk factors and periventricular leukomalacia (PVL) in premature infants––relationship between fetal heart rate decelerations and PVL] Ibara S, et al. **No To Hattatsu** 1996 Mar;28(2):135–7 (Eng. Abstr.) **(Jpn)**

DRUG EFFECTS

Amniotic fluid index predicts the relief of variable decelerations after amnioinfusion bolus. Spong CY, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):1066–7

Ovine fetal cardiovascular, renal, and fluid balance responses to 3 days of high arginine vasopressin levels. Gibson KJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1069–76

Fetal heart rate changes after intrathecal sufentanil or epidural bupivacaine for labor analgesia: incidence and clinical significance. Nielsen PE, et al. **Anesth Analg** 1996 Oct;83(4):742–6

Blood pressure and fetal heart rate changes with patient–controlled combined spinal epidural analgesia while ambulating in labour. al–Mufti R, et al. **Br J Obstet Gynaecol** 1997 May;104(5):554–8

Fetal ventricular rate in case of congenital complete heart block is increased by ritodrine. Case report. Koike T, et al. **J Perinat Med** 1997;25(2):216–8

Effect of MgSO4 on heart rate monitoring in the preterm fetus. Wright JW, et al. **J Reprod Med** 1996 Aug; 41(8):605–8

Fetal bradycardia and uterine hyperactivity following subarachnoid administration of fentanyl during labor. Friedlander JD, et al. **Reg Anesth** 1997 Jul–Aug; 22(4):378–81

PHYSIOLOGY

Electrocortical and heart rate response during vibroacoustic stimulation in fetal sheep. Bauer R, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):66–71

Fetal heart rate changes do not reflect cardiovascular deterioration during brief repeated umbilical cord occlusions in near–term fetal lambs. de Haan HH, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):8–17

Fetal heart rate patterns in growth–restricted fetal sheep induced by chronic fetal placental embolization. Murotsuki J, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):282–90

The effect of vibroacoustic stimulation on fetal heart rate parameters utilizing computer analysis. Barton JR, et al. **Am J Perinatol** 1997 Apr;14(4):229–32

The effect of carotid sinus denervation on fetal heart rate variation in normoxia, hypoxia and post–hypoxia in fetal sheep. Kozuma S, et al. **Br J Obstet Gynaecol** 1997 Apr; 104(4):460–5

The intrapartum CTG prior to neonatal encephalopathy at term: a case–control study. Spencer JA, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):25–8

Complementary and non–coincident increases in heart rate variability and irregularity during fetal development. Fleisher LA, et al. **Clin Sci (Colch)** 1997 Apr;92(4):345–9

The heart rate deceleratory response in low–risk human fetuses: effect of stimulus intensity on response topography. Groome LJ, et al. **Dev Psychobiol** 1997 Mar;30(2):103–13

The effects of maternal exercise on fetal heart rate and movement patterns. Manders MA, et al. **Early Hum Dev** 1997 May 28;48(3):237–47

Fetal breathing movements in late diabetic pregnancy: relationship to fetal heart rate patterns and Braxton Hicks' contractions. Mulder EJ, et al. **Early Hum Dev** 1995 Nov 24;43(3):225–32

Diurnal variations in resting–active cycles in full–term fetal heart rate changes. Muro M, et al. **Early Hum Dev** 1996 Jan 5;44(1):51–8

Chaos theory and power spectrum analysis in computerized cardiotocography. Bozóki Z. **Eur J Obstet Gynecol Reprod Biol** 1997 Feb;71(2):163–8

Role of antepartum computerized fetal heart rate analysis in the prediction of fetal distress during labor. Valensise H, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Jun; 73(2):129–34

Assessment of fetal well–being in methadone–maintained pregnancies: abnormal nonstress tests. Anyaegbunam A, et al. **Gynecol Obstet Invest** 1997;43(1):25–8

Evaluation of interobserver agreement of cardiotocograms. Bernardes J, et al. **Int J Gynaecol Obstet** 1997 Apr; 57(1):33–7

Fetal heart rate patterns associated with periventricular leukomalacia. Okamura M, et al. **Int J Gynaecol Obstet** 1997 Jan;56(1):13–8

Fetal heart rate monitoring casebook. Amnioinfusion with uterine dehiscence and fetal distress. Gimovsky ML, et al. **J Perinatol** 1997 Jan–Feb;17(1):83–6

Antenatal fetal heart rate and "maternal intuition" as predictors of fetal sex. Genuis S, et al. **J Reprod Med** 1996 Jun;41(6):447–9

Uterine and umbilical circulation during the oxytocin challenge test. Olofsson P, et al. **Ultrasound Obstet Gynecol** 1996 Oct;8(4):247–51

Computerized analysis of behavior in fetuses with congenital abnormalities. Vindla S, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):302–9

Fluctuation of cardiotocographic tracings during labor in fetal growth retardation. Nieto A, et al. **Zentralbl Gynakol** 1996;118(12):655–8

[Heart rate accelerations in the fetus during fetal blood sampling sub partu] Tzanov G, et al. **Z Geburtshilfe Neonatol** 1997 Jan–Feb;201(1):6–10 (Eng. Abstr.) **(Ger)**

[Pre–pathologic–pathologic cardiotocographic pattern in second stage of labor. Analysis of the incidence of acidosis and recommendations for fetal blood gas analysis] Schlotter CM. **Zentralbl Gynakol** 1997;119(3):117–22 (Eng. Abstr.) **(Ger)**

[Pattern of normal fetal heart rate in the third trimester of pregnancy] Consoli C, et al. **Minerva Ginecol** 1997 Jun; 49(6):261–5 (Eng. Abstr.) **(Ita)**

HEART RUPTURE

Images in cardiovascular medicine. Ruptured papillary muscle. Tauke JT, et al. **Circulation** 1997 Jul 15;96(2):698–9

Diagnosis and treatment of blunt cardiac rupture. Powell MA, et al. **W V Med J** 1997 Mar–Apr;93(2):64–7 (10 ref.)

[Mitral valve disease, mitral valve prolapse syndrome, ruptured chordae tendineae of the mitral valve] Murakami E, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):403–6 (10 ref.) **(Jpn)**

COMPLICATIONS

Chest pain, congestive heart failure, and death in a 65–year–old man [clinical conference] **Am J Med** 1997 Jan; 102(1):118–25

Cardiac herniation producing tamponade: the critical role of early diagnosis. Carrillo EH, et al. **J Trauma** 1997 Jul; 43(1):19–23

[Aortic regurgitation due to ruptured fibrous band in the noncoronary cusp: a case report] Kaneko T, et al. **J Cardiol** 1996;27 Suppl 2:79–82; discussion 83 (Eng. Abstr.) **(Jpn)**

[Hypertrophic obstructive cardiomyopathy with ruptured chordae tendineae: a case report] Shibata M, et al. **J Cardiol** 1996;27 Suppl 2:57–61; discussion 62–3 (Eng. Abstr.) **(Jpn)**

[A case report: surgical treatment of hypertrophic obstructive cardiomyopathy with acute hemodynamic deterioration due to chordae rupture of the mitral valve] Kioka Y, et al. **Kyobu Geka** 1997 May;50(5):389–93 (Eng. Abstr.) **(Jpn)**

[Mitral valve insufficiency caused by tendinous cord rupture and mitral valve aneurysm. Significance of the echocardiographic study] Pitta ML, et al. **Rev Port Cardiol** 1997 Mar;16(3):267–71, 242 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Sudden hemorrhagic tamponade simulating subacute ventricular rupture after acute myocardial infarction [letter] Fuchs S, et al. **Int J Cardiol** 1997 Jul 25;60(2):219–20

ETIOLOGY

Survival after left ventricular rupture following blunt chest injury. Weiner Y, et al. **Am J Emerg Med** 1996 Mar; 14(2):186–8

C–reactive protein as a predictor of infarct expansion and cardiac rupture after a first Q–wave acute myocardial infarction. Anzai T, et al. **Circulation** 1997 Aug 5; 96(3):778–84

Repair of late left ventricular rupture after repeat mitral valve replacement. Nomura F, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):991–3

Delayed presentation of coronary sinus rupture after retrograde cardioplegia. Guarracino F, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):89–90

Left ventricular rupture following mitral valve replacement [letter; comment] Robicsek F. **J Heart Valve Dis** 1996 Sep; 5(5):571. Comment on: J Heart Valve Dis 1996 Jan;5(1):10–15.

[A case of myocardial rupture in closed thoracic injury] Demarche M, et al. **Rev Med Liege** 1997 Feb;52(2):105–9 (39 ref.) **(Fre)**

[Ventricular septal rupture after blunt chest trauma] Roithinger FX, et al. **Dtsch Med Wochenschr** 1996 Nov 15;121(46):1424–7 (23 ref.) (Eng. Abstr.) **(Ger)**

[An unusual case of pyogenic hepatic abscess rupturing into the pericardial cavity] Yamada S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2072–5 (Eng. Abstr.) **(Jpn)**

[Left ventricular rupture following mitral valve replacement] Fujita T, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):241–5 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Perforation of the mitral valve] Goh K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):396–8 (18 ref.) **(Jpn)**

[Aortic valve perforation] Shu T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):415–20 (16 ref.) **(Jpn)**

[Rupture of the posterior wall of the left ventricle after mitral valve prosthesis] Dobrotin SS, et al. **Vestn Khir Im I I Grek** 1997;156(2):112–5 (Eng. Abstr.) **(Rus)**

PATHOLOGY

[Heart rupture after mitral valve replacement. Pathologic–anatomic findings] Kuhnen C, et al. **Pathologe** 1997 May;18(3):238–42 (Eng. Abstr.) **(Ger)**

[Cardiac rupture in acute myocardial infarct. Presentation of 20 postmortem cases] Cruz H, et al.

HEART RUPTURE

Arch Inst Cardiol Mex 1997 Jan-Feb;67(1):51-8 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

C-reactive protein as a predictor of infarct expansion and cardiac rupture after a first Q-wave acute myocardial infarction. Anzai T, et al. **Circulation** 1997 Aug 5; 96(3):778-84

SURGERY

Repair of late left ventricular rupture after repeat mitral valve replacement. Nomura F, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):991-3

Left ventricular rupture following mitral valve replacement [see comments] Reardon MJ, et al. **J Heart Valve Dis** 1996 Jan;5(1):10-15. Comment in: J Heart Valve Dis 1996 Sep;5(5):571.

[Repair of post-infarction left ventricular wall ruptures by biological glue and a flap from the pericardium. Results from 2 to 10 years] Hvass U, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1255-8 (Eng. Abstr.) **(Fre)**

[A successful repair of left ventricular rupture after surgical treatment of ventricular septal perforation complicated due to acute myocardial infarction] Kurata N, et al. **Kyobu Geka** 1996 Oct;49(11):926-9 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

[Ruptured chordae tendineae of the tricuspid valve] Okada M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):371-3 (14 ref.) **(Jpn)**

[Clinical and echocardiographic study of mitral valve in children with severe rheumatic carditis. Aspects of prolapse or rupture] Volga Haddad Herdy G, et al. **Arq Bras Cardiol** 1996 Mar;66(3):125-8 (Eng. Abstr.) **(Por)**

HEART RUPTURE, POST-INFARCTION

Postinfarction cardiac rupture and electromechanical dissociation. Morpurgo M, et al. **Acta Cardiol** 1997; 52(1):17-23 (37 ref.)

Perforation of interventricular septum in acute myocardial infarction. Jootar P, et al. **J Med Assoc Thai** 1997 Jan; 80(1):16-21

[Cardiac rupture] Kitaoka M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):574-7 (14 ref.) **(Jpn)**

COMPLICATIONS

Left ventricular pseudoaneurysm with left atrium tamponade: a rare postinfarction complication. Delgado C, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):582-7

Clinical presentation of rupture of the left-ventricular free wall after myocardial infarction: report of five cases with successful surgical repair. Schwarz CD, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):71-5

[A case of scheduled mitral valve replacement for mitral regurgitation caused by papillary muscle rupture after acute myocardial infarction] Minakata K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):639-44 (31 ref.) (Eng. Abstr.) **(Jpn)**

[Mitral regurgitation due to papillary muscle rupture after myocardial infarction] Okada M, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):381-4 (11 ref.) **(Jpn)**

DIAGNOSIS

Diagnostic criteria and management of subacute ventricular free wall rupture complicating acute myocardial infarction. Purcaro A, et al. **Am J Cardiol** 1997 Aug 15;80(4):397-405

Concealed post-infarction left ventricular rupture--a diagnostic dilemma. Khogali SS, et al. **Postgrad Med J** 1996 Feb;72(844):121-2

EPIDEMIOLOGY

Timing of ventricular septal rupture after acute myocardial infarction and its relation to thrombolytic therapy. Oskoui R, et al. **Am J Cardiol** 1996 Oct 15;78(8):953-5

Thrombolysis, the risk of rupture and other risks [letter; comment] Pollak H. **J Am Coll Cardiol** 1997 Jan; 29(1):221-2. Comment on: J Am Coll Cardiol 1996 May;;27(6):1321-6.

ETIOLOGY

Left ventricular free wall rupture as the presenting manifestation of acute myocardial infarction in diabetic patients. Zahger D, et al. **Am J Cardiol** 1996 Sep 15; 78(6):681-2

[Heart rupture during maximal exercise test before hospital discharge after acute myocardial infarction] Carlon R, et al. **G Ital Cardiol** 1996 May;26(5):539-44 (Eng. Abstr.) **(Ita)**

HISTORY

Cardiac rupture treatment revisited [letter; comment] FitzGibbon GM. **Can J Cardiol** 1997 Mar;13(3):305. Comment on: Can J Cardiol 1995 Sep;11(8):702-4.

METABOLISM

Beta-adrenergic responsiveness of papillary muscles in the rat postinfarction model. Qi X, et al. **Can J Physiol Pharmacol** 1996 Oct;74(10):1166-70

MORTALITY

[Epidemiology of heart wall rupture in myocardial infarct] Lukac P, et al. **Z Kardiol** 1996 Oct;85(10):776-81 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

[Ventricular aneurysm or pseudoaneurysm?] Toussaint AC, et al. **Rev Med Liege** 1997;52(7):457-62 **(Fre)**

SURGERY

Diagnostic criteria and management of subacute ventricular free wall rupture complicating acute myocardial infarction. Purcaro A, et al. **Am J Cardiol** 1997 Aug 15;80(4):397-405

Early repair of postinfarction ventricular septal rupture. Killen DA, et al. **Ann Thorac Surg** 1997 Jan;63(1):138-42

Successful surgery after ventricular septal rupture complicating acute myocardial infarction. Constantine GR, et al. **Ceylon Med J** 1996 Dec;41(4):160-1

Repair of ventricular septal rupture through the right atrium. Berrizbeitia LD, et al. **J Card Surg** 1996 Jan-Feb;11(1):71-4

Clinical presentation of rupture of the left-ventricular free wall after myocardial infarction: report of five cases with successful surgical repair. Schwarz CD, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):71-5

[The process of ventricular remodeling after acute myocardial infarct associated with left ventricular aneurysm and ventricular septum rupture treated with radical surgery] Hula J. **Vnitr Lek** 1997 Jan;43(1):7-12 (Eng. Abstr.) **(Cze)**

[Two successful cases of surgical treatment for left ventricular rupture following myocardial infarction: the usefulness of percutaneous cardiopulmonary support system (PCPS)] Doi K, et al. **Kyobu Geka** 1996 Sep; 49(10):842-5 (Eng. Abstr.) **(Jpn)**

[A proposal of a composite patch for early repair of ventricular septal perforation after acute myocardial infarction] Nawa S, et al. **Kyobu Geka** 1996 Jul;49(7):539-42 (Eng. Abstr.) **(Jpn)**

[Survival of a patient with postinfarction ventricular septal defect following venoarterial bypass with centrifugal pump and reoperation for residual shunt] Ohuchi H, et al. **Kyobu Geka** 1996 Sep;49(10):838-41 (6 ref.) (Eng. Abstr.) **(Jpn)**

[A case of report of surgical repair of ventricular septal perforation with left ventricular free wall rupture following acute myocardial infarction in an 86-year-old woman] Akimoto T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct;44(10):1891-5 (20 ref.) (Eng. Abstr.) **(Jpn)**

[A surgical case of total anterior papillary muscle rupture after acute myocardial infarction] Masuda Z, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):869-73 (Eng. Abstr.) **(Jpn)**

[Repair of ischemic cardiac rupture and perioperative management with mechanical circulatory assist] Misawa Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb; 45(2):141-5 (Eng. Abstr.) **(Jpn)**

[Successful repair of combined cardiac rupture and septal perforation after myocardial infarction] Sakurai H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):73-8 (Eng. Abstr.) **(Jpn)**

[Mitral valve replacement and coronary artery bypass grafting for postinfarction mitral papillary muscle rupture] Sasaki Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):697-701 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Surgical repair of free wall rupture after myocardial infarction] Casanova J, et al. **Rev Port Cardiol** 1996 May; 15(5):379-84, 363-4 (36 ref.) (Eng. Abstr.) **(Por)**

THERAPY

Various problems during long-term percutaneous cardiopulmonary support. Ihno T, et al. **Artif Organs** 1997 Jul;21(7):766-71

Percutaneous cardiopulmonary support for the management of catastrophic mechanical complications of acute myocardial infarction. Aliabadi D, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):223-6

Long-term survival of post-infarction free wall rupture without operation [letter] Lengyel M, et al. **Eur Heart J** 1996 Nov;17(11):1769-70

Medical management of selected patients with left ventricular free wall rupture during acute myocardial infarction. Figueras J, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):512-8

ULTRASONOGRAPHY

Long-term survival of post-infarction free wall rupture without operation [letter] Lengyel M, et al. **Eur Heart J** 1996 Nov;17(11):1769-70

Progression from partial to complete papillary muscle rupture in acute myocardial infarction [letter] Mundigler G, et al. **Intensive Care Med** 1996 Sep;22(9):1000

Postinfarction atrioventricular septal rupture. Jobic Y, et al. **J Am Soc Echocardiogr** 1997 Jul-Aug;10(6):680-4 (5 ref.)

[Partial rupture progressing to complete rupture of the left ventricular anterior papillary muscle after acute myocardial infarction: a case report] Akasaka K, et al. **J Cardiol** 1996 Dec;28(6):349-54 (Eng. Abstr.) **(Jpn)**

[Papillary muscle dysfunction, rupture of posterior papillary muscle] Tekaoka K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):435-7 (14 ref.) **(Jpn)**

[Atrial rupture secondary to infarction. Echocardiographic diagnosis] Vicente T, et al. **Rev Esp Cardiol** 1996 Aug; 49(8):609-11 (Eng. Abstr.) **(Spa)**

HEART RUPTURE, TRAUMATIC see **HEART INJURIES**

HEART SEPTAL DEFECTS

COMPLICATIONS

Isolated brain metastases of osteosarcoma in a patient presenting with a patent foramen ovale. Menassa L, et al. **Eur Radiol** 1997;7(3):365-7

Atrioventricular septal defect with subaortic stenosis: extended valvular detachment and leaflet augmentation [letter; comment] Macé L, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):615-6. Comment on: J Thorac Cardiovasc Surg 1995 Nov;110(5):1534-41; discussion 1541-2.

[Secondary subaortic obstruction after correction of double outlet right ventricle. Echocardiographic aspects and surgical findings] Piot JD, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):639-43 (Eng. Abstr.) **(Fre)**

[Role of the atrioventricular septum and mitro-aortic separation in the pathogenesis of fixed subaortic stenosis] Miyague NI, et al. **Arq Bras Cardiol** 1996 Oct;67(4):231-5 (Eng. Abstr.) **(Por)**

DIAGNOSIS

A critical reappraisal of the oximetric assessment of intracardiac left-to-right shunting in adults. Pirwitz MJ, et al. **Am Heart J** 1997 Apr;133(4):413-7

PATHOLOGY

Cardiac morphology at late fetal stages in the mouse with trisomy 16: consequences for different formation of the atrioventricular junction when compared to humans with trisomy 21. Webb S, et al. **Cardiovasc Res** 1997 Jun; 34(3):515-24

PHYSIOPATHOLOGY

Left ventricular parallel conductance during cardiac cycle in children with congenital heart disease. White PA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H295-302

RADIONUCLIDE IMAGING

Dobutamine thallium-201 myocardial SPECT in patients with left bundle branch block and normal coronary arteries. Caner B, et al. **J Nucl Med** 1997 Mar;38(3):424-7

SURGERY

Predicting feasibility of biventricular repair of right-dominant unbalanced atrioventricular canal. van Son JA, et al. **Ann Thorac Surg** 1997 Jun;63(6):1657-63

Anatomically sound, simplified approach to repair of "complete" atrioventricular septal defect. Wilcox BR, et al. **Ann Thorac Surg** 1997 Aug;64(2):487-93; discussion 493-4

Intracardiac repair of lesions associated with atrioventricular discordance. Szufladowicz M, et al. **Eur J Cardiothorac Surg** 1996;10(6):443-8

Interventional atrioseptostomy by application of monopolar high-frequency alternating current. In vitro evaluation of a new device. Grabitz RG, et al. **Invest Radiol** 1997 Feb; 32(2):90-3

Repair of the left AV valve in atrioventricular septal defect in adults. Yilmaz AT, et al. **J Card Surg** 1996 Sep-Oct; 11(5):363-7

Repair of subaortic stenosis in atrioventricular canal with absent or restrictive interventricular communication by patch augmentation of ventricular septum, resuspension of atrioventricular valves, and septal myectomy. van Son JA, et al. **Mayo Clin Proc** 1997 Mar;72(3):220-4

Atrioventricular septal defect with tetralogy of Fallot or double-outlet right ventricle: surgical considerations. Karl TR. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):26-34

Morphologic characterization and assessment of mitral regurgitation after repair of atrioventricular defects in children. Kececioglu D, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):70-4

[A successful Konno's operation for subaortic stenosis progressed after total correction of partial atrioventricular septal defect associated with polysplenia] Matsuo K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1049-54 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of Fallot's tetralogy with hyperplasia or agenesis of the conal septum] Cordovilla Zurdo G, et al. **Rev Esp Cardiol** 1997 Apr;50(4):262-7 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Patient selection for repair of complete atrioventricular canal guided by echocardiography. Santoro G, et al.

Eur J Cardiothorac Surg 1996;10(6):439–42

A rare case of inferior venacaval type of atrial septal defect in an adult: echocardiographic features. Pai RG, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):819–21

Dynamic three–dimensional echocardiographic reconstruction of congenital cardiac septation defects. Tantengco MV, et al. **Pediatr Cardiol** 1997 May–Jun; 18(3):184–90

HEART SEPTAL DEFECTS, ATRIAL

A novel method to create atrial septal defect using a cutting balloon in piglets. Coe JY, et al. **Am J Cardiol** 1996 Dec 1;78(11):1323–6

The floating harbor syndrome with cardiac septal defect. Lazebnik N, et al. **Am J Med Genet** 1996 Dec 18; 66(3):300–2 (23 ref.)

Skeletal and cardiac malformations with thrombocytopenia: a new syndrome? Rupps R, et al. **Am J Med Genet** 1996 Aug 23;64(3):497–500

Cardio–facio–cutaneous (CFC) syndrome--a distinct entity? Report of three patients demonstrating the diagnostic difficulties in delineation of CFC syndrome. Wieczorek D, et al. **Clin Genet** 1997 Jul;52(1):37–46 (57 ref.)

Diagnosis and management of paradoxical embolism and patent formen ovale. Mas JL. **Curr Opin Cardiol** 1996 Sep; 11(5):519–24 (26 ref.)

Gastroschisis with rare congenital anomalies. Chakrabarti AK, et al. **J Indian Med Assoc** 1995 May;93(5):211

[Aneurysms of the atrial septum] Marazanof M, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1189–95 (33 ref.) (Eng. Abstr.) **(Fre)**

[Atrial septal defect] Hoshino S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):168–70 (8 ref.) **(Jpn)**

[Unroofed coronary sinus] Yoshida Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):848–50 (6 ref.) **(Jpn)**

COMPLICATIONS

Aspergillus endocarditis in chronic granulomatous disease. Casson DH, et al. **Acta Paediatr** 1996 Jun;85(6):758–9

Atrial septal defect: increase in left–to–right shunt after myocardial infarction. Bhagwat AR, et al. **Am Heart J** 1996 Dec;132(6):1308–9

Association of atrial septal defect with Poland–Moebius syndrome: vascular disruption can be a common etiologic factor. A case report. Matsui A, et al. **Angiology** 1997 Mar; 48(3):269–71

Left ventricular gas emboli in six cases of altitude–induced decompression sickness. Pilmanis AA, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1092–6

Intracardiac right–to–left shunting and the risk of stroke during bone marrow infusion. Moore TB, et al. **Bone Marrow Transplant** 1997 Apr;19(8):855–6

Radiofrequency ablation of bundle branch reentrant tachycardia in a patient with atrial septal defect. De Lima GG, et al. **Can J Cardiol** 1997 Apr;13(4):403–5

Association of secundum atrial septal defect and mitral lesion in childhood: a case report. Yuan SM. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 May; 59(5):308–10

Refractory postoperative hypoxemia associated with regional cardiac tamponade and patent foramen ovale. Sandifer DP, et al. **Crit Care Med** 1997 Sep;25(9):1608–11

How to prevent stroke recurrence in patients with patent foramen ovale: anticoagulants, antiaggregants, foramen closure, or nothing? [see comments] Nendaz M, et al. **Eur Neurol** 1997;37(4):199–204 (45 ref.). Comment in: Eur Neurol 1997 ;37(4):205–6.

Probable right ventricular dysplasia and patent foramen ovale presenting with cyanosis and clubbing in a patient with characteristics of Noonan syndrome [letter] Wilmshurst P. **Heart** 1997 Mar;77(3):294

Multiplane transesophageal echocardiography to detect effectiveness of selective pulmonary recombinant tissue–type plasminogen activator thrombolysis in pulmonary embolism and patent foramen ovale. Colonna P, et al. **J Am Soc Echocardiogr** 1997 May;10(4):384–8

Cardiac tamponade in association with an atrial septal defect: echocardiographic Doppler and hemodynamic observations. Joffe II, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):909–14

Secundum–type atrial septal defects with failure to thrive in the first year of life. Mainwaring RD, et al. **J Card Surg** 1996 Mar–Apr;11(2):116–20

Significance of atrial septal aneurysm: report of a case. Moorthy SS, et al. **J Clin Anesth** 1996 Nov;8(7):595–7

Prevention of stroke recurrence with presumed paradoxical embolism. Bogousslavsky J, et al. **J Neurol** 1997 Feb; 244(2):71–5 (43 ref.)

Platypnea and orthodeoxia: shunting associated with an aortic aneurysm. Laybourn KA, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):955–6

Microatelectasis in patients with secundum atrial septal defect and its relation to pulmonary hypertension. Yamaki S, et al. **Jpn Circ J** 1997 May;61(5):384–9

Patent foramen ovale and decompression illness in divers [letter; comment] [see comments] Johnston RP, et al. **Lancet** 1996 Nov 30;348(9040):1515. Comment on: Lancet 1996 Sep 14;348(9029):752–3. Comment in: Lancet 1997 Jan 25;349(9047):288.

Patent foramen ovale and decompression illness in divers [letter; comment] Laden GD. **Lancet** 1997 Jan 25; 349(9047):288. Comment on: Lancet 1996 Nov 30;348(9040):1515.

Patent foramen ovale and decompression illness in divers [letter; comment] [see comments] Turner M. **Lancet** 1996 Nov 30;348(9040):1515. Comment on: Lancet 1996 Sep 14;348(9029):752–3. Comment in: Lancet 1997 Jan 25;349(9047):288.

Patent foramen ovale and decompression illness in divers [letter; comment] Wilmshurst P, et al. **Lancet** 1997 Jan 25; 349(9047):288. Comment on: Lancet 1996 Nov 30;348(9040):1515.

Spinal muscular atrophy combined with congenital heart disease: a report of two cases [letter] Mulleners WM, et al. **Neuropediatrics** 1996 Dec;27(6):333–4

Pulmonary vascular disease in a child with atrial septal defect of the secundum type and type I glycogen storage disease. Bolz D, et al. **Pediatr Cardiol** 1996 Jul–Aug;17(4):265–7

Infective endocarditis caused by an unusual gram–negative rod, Rahnella aquatilis. Matsukura H, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):108–11

An audible shunt murmur in atrial septal defect [letter] Reynolds JL. **Pediatr Cardiol** 1997 Jul–Aug;18(4):318–9

Bilateral abdominal aplasia cutis congenita associated with atrial septal defect: a case report. Tekinalp G, et al. **Pediatr Dermatol** 1997 Mar–Apr;14(2):117–9

Recurrent vertebral osteomyelitis and psoas abscess caused by Streptococcus constellatus and Fusobacterium nucleatum in a patient with atrial septal defect and an occult dental infection. Wang TD, et al. **Scand J Infect Dis** 1996;28(3):309–10

Atrial septal defect and phaeochromocytoma: a diagnostic conundrum. McFarlane HJ. **Scott Med J** 1996 Jun; 41(3):90–1

Patent foramen ovale and paradoxical emboli as a possible mechanism of stroke in patients with low FEV1 [letter; comment] Gilon D, et al. **Stroke** 1996 Oct;27(10):1920. Comment on: Stroke 1995 Nov;26(11):2004–10.

Secundum atrial septal defect associated with mitral valve cleft: report of a case with chromosomal syndrome of trisomy 3p. Suzuki M, et al. **Surg Today** 1996;26(9):734–6

Papillary fibroelastoma of the tricuspid valve in association with an atrial septal defect: report of a case. Watanabe T, et al. **Surg Today** 1996;26(10):831–3

Carcinoid heart disease with severe hypoxia due to interatrial shunt through patent foramen ovale. Boglioli LR, et al. **Tex Heart Inst J** 1997;24(2):125–8

Trapped thrombus in a patent foramen ovale. Falk V, et al. **Thorac Cardiovasc Surg** 1997 Apr;45(2):90–2

A rare case of mixed type total anomalous pulmonary venous connection and its surgical treatment. Sarioğlu T, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):152–4

Microangiopathic hemolytic anemia and thrombocytopenia in a child with atrial septal defect and pulmonary hypertension. Suzuki H, et al. **Tohoku J Exp Med** 1997 Mar;181(3):379–84

Bilateral coronary arteriovenous fistula coexistent with atrial septal defect and pulmonary stenosis. Ha JW, et al. **Yonsei Med J** 1997 Jun;38(3):190–2

[Patent foramen ovale, aneurysm of the interatrial septum and cerebral ischemic complication] Mas JL. **Ann Cardiol Angeiol (Paris)** 1996 Nov;45(9):531–7 (35 ref.) (Eng. Abstr.) **(Fre)**

[Recognition of cardiac normal variants as the cause of cerebral ischemia: significance of transesophageal echocardiography] Kücherer H, et al. **Z Kardiol** 1996 Dec; 85(12):917–23 (Eng. Abstr.) **(Ger)**

[Successful repair for concealed Wolff–Parkinson–White syndrome with atrial septal defect in infancy: a case report] Miyaji K, et al. **Kyobu Geka** 1996 Oct;49(11):947–51 (Eng. Abstr.) **(Jpn)**

[Persistent foramen ovale and cerebral embolism] Mendel T. **Neurol Neurochir Pol** 1996 Jul–Aug;30(4):641–7 (27 ref.) (Eng. Abstr.) **(Pol)**

DIAGNOSIS

Screening for patent foramen ovale and prevention of paradoxical embolus. Montessuit M, et al. **Ann Vasc Surg** 1997 Mar;11(2):168–72

Does it matter if atrial septal defects are not diagnosed in childhood? Oakley CM. **Arch Dis Child** 1996 Aug; 75(2):96–9

Prolonged survival after massive pulmonary embolism in a patient with atrial septal defect and mass in the right ventricle. Tak T, et al. **Can J Cardiol** 1997 Feb; 13(2):199–202 (4 ref.)

Atypical electrocardiogram and echocardiogram in a patient with Bland–White–Garland syndrome in association with atrial septal defect. Nakagawa M, et al. **Cardiology** 1996 Jul–Aug;87(4):358–60

Assessment of intracardiac shunt by magnetic resonance imaging [editorial; comment] Mohaiddin RH. **Int J Card Imaging** 1996 Sep;12(3):215–7. Comment on: Int J Card Imaging 1996 Sep;12(3):143–52.

Cardiac MRI: knowing its place [editorial; comment] Silberbach M, et al. **Int J Card Imaging** 1996 Sep; 12(3):213–4. Comment on: Int J Card Imaging 1996 Sep;12(3):143–52.

Preoperative gadolinium–enhanced magnetic resonance pulmonary venography in an adolescent with atrial septal defect. Eisenhauer MD, et al. **Mil Med** 1997 Sep; 162(9):640–2

[Coronary sinus defects: rare form of interatrial communication] Bertram H, et al. **Z Kardiol** 1996 Dec; 85(12):899–905 (Eng. Abstr.) **(Ger)**

[Atresia of the left–sided atrioventricular connection with single ventricle and transposition of great vessels in a adult patients] Kaemmerer H, et al. **Z Kardiol** 1996 Jul; 85(7):469–76 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Oxygenation improvement with nitric oxide in right–to–left shunt without significant effects on pulmonary arterial pressure. De Backer D, et al. **Chest** 1996 Nov;110(5):1361–3

ETIOLOGY

Dyspnea after pneumonectomy: the result of an atrial septal defect. Zueger O, et al. **Ann Thorac Surg** 1997 May; 63(5):1451–2

Acute interatrial right to left shunt causing life threatening hypoxia following surgery [letter] Alvarez JM, et al. **Aust N Z J Med** 1996 Dec;26(6):847–8

[Endovascular closure of a foramen ovale after a right pneumonectomy] Bombaron P, et al. **Rev Mal Respir** 1997 Apr;14(2):133–5 (Eng. Abstr.) **(Fre)**

GENETICS

Identification of a cat eye syndrome using DNA sequence dosage analysis. Bulle F, et al. **Ann Genet** 1996;39(3):139–43

Holt–Oram (heart–hand) syndrome [letter] Galappatthy GK, et al. **Ceylon Med J** 1997 Jun;42(2):106–8

Atrial septal defect in Hallermann Streiff syndrome [letter] Aynaci FM, et al. **Genet Couns** 1997;8(2):145–6

MICROBIOLOGY

Recurrent vertebral osteomyelitis and psoas abscess caused by Streptococcus constellatus and Fusobacterium nucleatum in a patient with atrial septal defect and an occult dental infection. Wang TD, et al. **Scand J Infect Dis** 1996;28(3):309–10

PATHOLOGY

Hirschsprung disease, postaxial polydactyly, and atrial septal defect. Nowaczyk MJ, et al. **Am J Med Genet** 1997 Jan 10;68(1):74–5

Enhancement of hypoxemia by right–to–left atrial shunting in severe asthma [letter; comment] Boon ES. **Intensive Care Med** 1996 Feb;22(2):176. Comment on: Intensive Care Med 1994 Nov;20(8):585–7.

Atrioventricular septal defect: quantitative anatomy of the left ventricle. Alvarez L, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):97–103

PHYSIOPATHOLOGY

A 90–year old patient with atrial septal defect and sinus rhythm. Nomura M, et al. **Acta Cardiol** 1996;51(4):377–80 (10 ref.)

Atrial septal defect: increase in left–to–right shunt after myocardial infarction. Bhagwat AR, et al. **Am Heart J** 1996 Dec;132(6):1308–9

Detection of right to left shunts in decompression sickness in divers. Kerut EK, et al. **Am J Cardiol** 1997 Feb 1; 79(3):377–8

Relation between patent foramen ovale and perfusion abnormalities in acute pulmonary embolism. Miller RL, et al. **Am J Cardiol** 1997 Aug 1;80(3):377–8

Right–to–left interatrial shunt after pneumonectomy. Bakris NC, et al. **Ann Thorac Surg** 1997 Jan;63(1):198–201

Percutaneous balloon catheter closure of a patent foramen ovale in a patient with pulmonary disease, profound hypoxemia, and normal right heart pressures. Allan JJ, et al. **Clin Cardiol** 1997 Mar;20(3):307–9

Pre– and postoperative exercise capacity associated with hemodynamics in adult patients with atrial septal defect: a retrospective study. Kobayashi Y, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1062–6

Medial medullary syndrome associated with patent foramen ovale in a weightlifter. Sweeney BJ, et al. **Eur Neurol** 1996; 36(6):391

Quantification of pulmonary and systemic blood flow by magnetic resonance velocity mapping in the assessment of atrial–level shunts [see comments] Rebergen SA, et al. **Int J Card Imaging** 1996 Sep;12(3):143–52. Comment in: Int J Card Imaging 1996 Sep;12(3):213–4. Comment in: Int J Card Imaging 1996 Sep;12(3):215–7.

Spontaneous closure of interatrial septal openings in infants: an echocardiographic study. Senocak F, et al. **Int J Cardiol** 1996 Mar;53(3):221–6

Atrial septal defect in adults: cardiopulmonary exercise capacity before and 4 months and 10 years after defect closure. Helber U, et al. **J Am Coll Cardiol** 1997 May; 29(6):1345–50

Effect of right ventricular volume overload on left ventricular diastolic function in patients with atrial septal defect. Satoh A, et al. **Jpn Circ J** 1996 Oct;60(10):758–66

Body surface isopotential T map for assessment of right ventricular volume and pressure overloads in secundum atrial septal defect. Nakasato M, et al. **Pediatr Cardiol** 1996 Jul–Aug;17(4):237–41

[Atrial septum defect and open foramen ovale. Diagnosis,

clinical aspects and therapy using a catheter technique] Chatterjee T, et al. **Schweiz Rundsch Med Prax** 1997 Apr 23;86(17):687–92 (59 ref.) (Eng. Abstr.) **(Ger)**

[Persistent foramen ovale and cerebral embolism] Mendel T. **Neurol Neurochir Pol** 1996 Jul–Aug;30(4):641–7 (27 ref.) (Eng. Abstr.) **(Pol)**

RADIONUCLIDE IMAGING

Myocardial perfusion imaging during chest pain: a useful clinical tool. Shehata AR, et al. **Am J Card Imaging** 1996 Apr;10(2):143–5

SURGERY

Intermediate–term outcome of transcatheter secundum atrial septal defect closure using the Bard Clamshell Septal Umbrella. Prieto LR, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1310–2

Pericardial effusion in adults undergoing surgical repair of atrial septal defect. Yip AS, et al. **Am J Cardiol** 1997 Jun 15;79(12):1706–8

Simultaneous repair of pectus excavatum and congenital heart disease. DeLeon MM, et al. **Ann Thorac Surg** 1997 Aug;64(2):557–9

Unusual right coronary artery anomaly with major implication during cardiac operations. Gaudino M, et al. **Ann Thorac Surg** 1997 Sep;64(3):838–9

Postpneumonectomy interatrial right–to–left shunt: successful percutaneous treatment. Godart F, et al. **Ann Thorac Surg** 1997 Sep;64(3):834–6 (7 ref.)

Surgical repair of a large residual atrial septal defect after transcatheter closure. Hekmat K, et al. **Ann Thorac Surg** 1997 May;63(5):1456–8

Minimally invasive direct atrial septal defect closure [letter; comment] Izzat MB, et al. **Ann Thorac Surg** 1997 Jun; 63(6):1831–4. Comment on: Ann Thorac Surg 1996 Sep;62(3):638–9. Comment on: Ann Thorac Surg 1996 Sep;62(3):697–701. Comment on: Ann Thorac Surg 1996 Sep;62(3):940.

Operative technique for persistent left superior vena cava draining into the left atrium. Komai H, et al. **Ann Thorac Surg** 1996 Oct;62(4):1188–90

Operation for atrial septal defect through a right anterolateral thoracotomy: current outcome. Massetti M, et al. **Ann Thorac Surg** 1996 Oct;62(4):1100–3

Atrial septal defect closure through a thoracotomy [letter; comment] Minale C. **Ann Thorac Surg** 1997 Mar; 63(3):913–4. Comment on: Ann Thorac Surg 1996 Jul;62(1):175–8.

Correction of atrioventricular septal defects [letter; comment] Rosti L, et al. **Ann Thorac Surg** 1997 Apr;63(4):1220–1. Comment on: Ann Thorac Surg 1996 Aug;62(2):519–24; discussion 524–5.

Surgical treatment of isolated secundum atrial septal defect in patients more than 50 years old. Shibata Y, et al. **Ann Thorac Surg** 1996 Oct;62(4):1096–9

Right atrial separation for chronic atrial fibrillation with atrial septal defects. Sueda T, et al. **Ann Thorac Surg** 1997 Aug; 64(2):541–2

Simultaneous surgical correction of a common atrium and impure flutter. Yamauchi S, et al. **Ann Thorac Surg** 1997 Aug;64(2):548–52

Bilateral partial anomalous pulmonary venous return. Mullen JC, et al. **Can J Cardiol** 1997 Jun;13(6):567–9

Atrial septal defect in adults. Popelová J, et al. **Can J Cardiol** 1996 Oct;12(10):983–8

Images in cardiovascular medicine. Multiplane transesophageal imaging during transcatheter closure of an atrial septal defect. Fehske W, et al. **Circulation** 1997 Sep 2;96(5):1702–3

Two– and three–dimensional transesophageal echocardiography in patient selection and assessment of atrial septal defect closure by the new DAS–Angel Wings device: initial clinical experience. Magni G, et al. **Circulation** 1997 Sep 16;96(6):1722–8

Transvenous closure of secundum atrial septal defects: preliminary results with a new self–expanding nitinol prosthesis in a swine model. Sharafuddin MJ, et al. **Circulation** 1997 Apr 15;95(8):2162–8

Sinus venosus atrial septal defects: surgical follow–up. Agrawal SK, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):455–7

Atrioventricular septal defect and tetralogy of Fallot: a 15–year experience. Delius RE, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):171–6

Surgical management of atrio ventricular septal defects with normal caryotype. Lacour–Gayet F, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):466–72

Systematic surgical closure of patent foramen ovale in selected patients with cerebrovascular events due to paradoxical embolism. Early results of a preliminary study. Ruchat P, et al. **Eur J Cardiothorac Surg** 1997 May; 11(5):824–7

Treatment of patent foramen ovale and stroke: to close or not to close, that is not yet the question [editorial; comment] Sacco RL, et al. **Eur Neurol** 1997;37(4):205–6. Comment on: Eur Neurol 1997 ;37(4):199–204.

Application of kinetics in intensive care management of children with generalized oedema. Smith LJ, et al. **Intensive Care Med** 1996 Sep;22(9):964–7

Atrial septal defect in adults: cardiopulmonary exercise capacity before and 4 months and 10 years after defect closure. Helber U, et al. **J Am Coll Cardiol** 1997 May; 29(6):1345–50

Arterial desaturation and orthodeoxia after atrial septal defect repair: demonstration of the mechanism by transesophageal and contrast echocardiography. Sapin PM, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):588–92

Individualized repair of the left atrioventricular valve in spectrum of atrioventricular septal defect. Tláskal T, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):233–9

An anomalous muscle bundle inside the right atrium possibly related to the right venous valve. Victor S, et al. **J Heart Valve Dis** 1997 Jul;6(4):439–40

Failure of devices used for the closure of atrial septal defects [letter; comment] Das GS. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):426–7. Comment on: J Thorac Cardiovasc Surg 1996 Jul;112(1):21–6.

Pericardial patch augmentation of restrictive innominate vein and division of left superior vena cava in unroofed coronary sinus syndrome. van Son JA, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):132–4

Intraatrial rerouting in left isomerism and late complications. Yaku H, et al. **Jpn Heart J** 1997 Mar;38(2):291–5

Parkinson's disease after open–heart surgery. Hägglund JV, et al. **Mov Disord** 1996 Jul;11(4):451–2

Right atrial separation procedure for eliminating chronic atrial fibrillation associated with atrial septal defect. Sueda T, et al. **Pacing Clin Electrophysiol** 1997 Jul;20(7):1870–3

Total one–stage repair of aortopulmonary window and interrupted aortic arch in a neonate. Davies MJ, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):122–4 (12 ref.)

The two–patch technique for complete atrioventricular canal. Mavroudis C, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):35–43

Late results and reoperation after repair of complete and partial atrioventricular canal defect. Permut LC, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):44–54

Primum atrial septal defect. Sadeghi AM, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):2–7 (26 ref.)

Fibrous tissue overgrowth and prosthetic valve endocarditis: report of a case. Kaneko Y, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):150–2

A rare case of mixed type total anomalous pulmonary venous connection and its surgical treatment. Sarioğlu T, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):152–4

[Minithoracotomy in cardiac surgery. Initial experience with closure of an atrial septal defect with a minithoracotomy] Honěk T, et al. **Rozhl Chir** 1996 Jun;75(6):286–9 (Eng. Abstr.) **(Cze)**

[Techniques of correction of partial right abnormal pulmonary venous return associated with atrial septal defect] Dervanian P, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):857–63 (29 ref.) (Eng. Abstr.) **(Fre)**

[Surgical treatment of atrial septal defects by right anterolateral thoracotomy] Grinda JM, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1153–7 (Eng. Abstr.) **(Fre)**

[Pure epicarditis after surgical repair of atrial septal defect: a rare form of constrictive pericarditis. Apropos of a case] Mazouz S, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):913–6 (Eng. Abstr.) **(Fre)**

[Endovascular closure of a foramen ovale after a right pneumonectomy] Bombaron P, et al. **Rev Mal Respir** 1997 Apr;14(2):133–5 (Eng. Abstr.) **(Fre)**

[Surgical closure of atrial septum defects via right–sided thoracotomy. Value with reference to the development of interventricular closure techniques] Schmid FX, et al. **Z Kardiol** 1996 Jul;85(7):489–94 (Eng. Abstr.) **(Ger)**

[Correction of interatrial defect of the ostium secundum type (letter; comment)] Santini DF, et al. **Cardiologia** 1997 Mar; 42(3):315–7. Comment on: Cardiologia 1996 Dec;41(12):1215–9. **(Ita)**

[A case of atrial septal defect complicated by persistent left superior vena cava in whom hemophagocytic syndrome appeared after operation] Horikoshi M, et al. **Kyobu Geka** 1997 Jul;50(7):573–6 (Eng. Abstr.) **(Jpn)**

[Successful surgical repair of atrial septal defect associated with mitral regurgitation and tricuspid regurgitation] Noji S, et al. **Kyobu Geka** 1996 May;49(5):408–11 (Eng. Abstr.) **(Jpn)**

[A surgical case report of an atrial septal defect combined with stenosis of the left main coronary artery caused by a dilated pulmonary artery in adult] Nonoyama M, et al. **Kyobu Geka** 1996 Oct;49(11):912–5 (Eng. Abstr.) **(Jpn)**

[A case of ASD with SLE treated with Carmeda BioActive surface circuit in cardiopulmonary bypass system] Toda R, et al. **Kyobu Geka** 1996 May;49(5):389–91 (Eng. Abstr.) **(Jpn)**

[A case of congenital tricuspid regurgitation associated with atrial septal defect and peripheral pulmonary stenosis] Tanji M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec; 44(12):2146–50 (16 ref.) (Eng. Abstr.) **(Jpn)**

[The pulmonary venous flow dynamics of before and after surgical repair in left–to–right shunt diseases—measured by the intraoperative transesophageal new–design Doppler echo–probe] Tsuji K. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1089–97 (Eng. Abstr.) **(Jpn)**

[Atrial septal defect with tricuspid valve regurgitation and heart failure in early childhood: report of a case with successful surgical management consisting of special patch closure technique and use of polydioxanone suture for the tricuspid annuloplasty] Takayama T, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):301–4 (Eng. Abstr.) **(Jpn)**

[Postoperative cardiac arrhythmias] Yokoyama M. **Ryoikibetsu Shokogun Shirizu** 1996;(12):334–6 (5 ref.) **(Jpn)**

[Catheter treatment of congenital heart defects. Arterial septal defects and open ductus arteriosus] Bjørnstad PG, et al. **Tidsskr Nor Laegeforen** 1997 Aug 30;117(20):2961–4 (Eng. Abstr.) **(Nor)**

[The potentials of echocardiography in the diagnosis of interatrial communications and in the determination of surgical treatment indices] Vasil'ev VN, et al. **Vestn Khir Im I I Grek** 1997;156(3):19–21 (Eng. Abstr.) **(Rus)**

[Surgical treatment of atrial septal defect. Good therapeutic alternative even for the elderly] Forssell G, et al. **Lakartidningen** 1996 Sep 25;93(39):3349–50 (5 ref.) **(Swe)**

THERAPY

Balloon pulmonary valvuloplasty for pulmonary valve stenosis with atrial septal defect. Nakasato M, et al. **Am J Cardiol** 1997 Mar 15;79(6):838–9

Effects of balloon pulmonary valvuloplasty on atrial shunting—a patient with pulmonary valve stenosis and a large secundum atrial septal defect. Kin H, et al. **Jpn Circ J** 1997 Feb;61(2):192–6

Transcatheter closure of atrial septal defects by the "buttoned" device: complications and need for surgical revision [see comments] Gildein HP, et al. **Pediatr Cardiol** 1997 Sep–Oct;18(5):328–31. Comment in: Pediatr Cardiol 1997 Sep–Oct;18(5):326–7.

Closure of atrial septal defects by transcatheter devices [editorial; comment] Magee AG, et al. **Pediatr Cardiol** 1997 Sep–Oct;18(5):326–7. Comment on: Pediatr Cardiol 1997 Sep–Oct;18(5):328–31.

[Late complications of percutaneous closure of atrial septal defects with the Sideris occluder] Lambert V, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):245–51 (Eng. Abstr.) **(Fre)**

[Reversal of a right–left shunt and permanent improvement of oxygenation by inhalation of nitrogen monoxide in a premature infant with lung hypoplasia and asphyxia] Hoehn T, et al. **Z Geburtshilfe Neonatol** 1997 May–Jun; 201(3):105–7 (Eng. Abstr.) **(Ger)**

[To close or not to close atrial septal defects in adults (editorial)] Hirsch R, et al. **Harefuah** 1997 Apr 1; 132(7):468–9 **(Heb)**

[Atrial septal defect in the adult: clinical course with medical treatment, pre–operative risk, and long–term postoperative survival] Meisel S, et al. **Harefuah** 1997 Apr 1;132(7):490–4 (32 ref.) **(Heb)**

[The transcatheter closure of an interatrial defect (see comments)] Onorato E. **Cardiologia** 1996 Dec; 41(12):1215–9. Comment in: Cardiologia 1997 Mar;42(3):315–7. **(Ita)**

[Atrial septal defect percutaneous transvenous occlusion with the buttoned device] Haddad J, et al. **Arq Bras Cardiol** 1996 Jul;67(1):17–22 (Eng. Abstr.) **(Por)**

ULTRASONOGRAPHY

Detection of right to left shunts in decompression sickness in divers. Kerut EK, et al. **Am J Cardiol** 1997 Feb 1; 79(3):377–8

Usefulness of myocardial velocity gradient derived from two–dimensional tissue Doppler imaging as an indicator of regional myocardial contraction independent of translational motion assessed in atrial septal defect. Uematsu M, et al. **Am J Cardiol** 1997 Jan 15;79(2):237–41

Usefulness of transesophageal echocardiography in the diagnosis and surgical management of a paradoxical embolus extending through a patent foramen ovale [letter] Plotkin IM, et al. **Anesth Analg** 1997 May;84(5):1166–7

Intraoperative evaluation of atrioventricular septal defect repair by color flow mapping echocardiography 1989: Updated in 1997 by Charles E. Canter, MD, Thomas L. Spray, MD, Charles B. Huddleston, MD, and Eric Mendeloff, MD. Canter CE, et al. **Ann Thorac Surg** 1997 Feb;63(2):592–3

Patent foramen ovale in patients with cerebral infarction. A transesophageal echocardiographic study. Petty GW, et al. **Arch Neurol** 1997 Jul;54(7):819–22

Images in cardiovascular medicine. Multiplane transesophageal imaging during transcatheter closure of an atrial septal defect. Fehske W, et al. **Circulation** 1997 Sep 2;96(5):1702–3

Intracardiac shunts. Nacht A, et al. **Crit Care Clin** 1996 Apr; 12(2):295–319 (136 ref.)

Complementarity of contrast transcranial Doppler and contrast transesophageal echocardiography for the detection of patent foramen ovale in stroke patients. Devuyst G, et al. **Eur Neurol** 1997;38(1):21–5

Images in cardiology. Right to left thromboembolism through a patent foramen ovale. Zuber M, et al. **Heart** 1996 Aug; 76(2):143

Morphometric analysis of unbalanced common atrioventricular canal using two–dimensional echocardiography. Cohen MS, et al. **J Am Coll Cardiol** 1996 Oct;28(4):1017–23

Cardiac tamponade in association with an atrial septal defect: echocardiographic Doppler and hemodynamic observations. Joffe II, et al. **J Am Soc Echocardiogr** 1996

Nov-Dec;9(6):909-14
Echocardiographic imaging techniques with subcostal and right parasternal longitudinal views in detecting sinus venosus atrial septal defects. McDonald RW, et al. **J Am Soc Echocardiogr** 1996 Mar-Apr;9(2):195-8
Optimized transcranial Doppler technique for the diagnosis of cardiac right-to-left shunts. Albert A, et al. **J Neuroimaging** 1997 Jul;7(3):159-63
Partially unroofed coronary sinus and persistent left superior vena cava: intracardiac echocardiographic observation. Chen MC, et al. **J Ultrasound Med** 1996 Dec;15(12):875-9
Comparative study of 18 gauge and 20 gauge intravenous catheters during transcranial Doppler ultrasonography with saline solution contrast. Khan KA, et al. **J Ultrasound Med** 1997 May;16(5):341-4
Images in clinical medicine. Paradoxical embolism--thrombus in transit through a patent foramen ovale. Srivastava TN, et al. **N Engl J Med** 1997 Sep 4; 337(10):681
High prevalence of interatrial communications during the first three months of life. Hansen LK, et al. **Pediatr Cardiol** 1997 Mar-Apr;18(2):83-5
Patent foramen ovale and transcranial Doppler. Comparison of different procedures. Zanette EM, et al. **Stroke** 1996 Dec;27(12):2251-5
Dilated coronary sinus in the fetus: misinterpretation as an atrioventricular canal defect. Park JK, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):126-9
[Diagnosis and therapy of a fluttering thrombus in the open foramen ovale] Krülls-Münch J, et al. **Z Kardiol** 1997 Jun; 86(6):474-7 (Eng. Abstr.) **(Ger)**
[Evaluation of atrial septum defects in adulthood using echocardiography methods] Kücherer H, et al. **Z Kardiol** 1996 Aug;85(8):580-7 (Eng. Abstr.) **(Ger)**
[The potentials of echocardiography in the diagnosis of interatrial communications and in the determination of surgical treatment indices] Vasil'ev VN, et al. **Vestn Khir Im I I Grek** 1997;156(3):19-21 (Eng. Abstr.) **(Rus)**

HEART SEPTAL DEFECTS, VENTRICULAR

Skeletal and cardiac malformations with thrombocytopenia: a new syndrome? Rupps R, et al. **Am J Med Genet** 1996 Aug 23;64(3):497-500
Isolated right subclavian artery, interrupted aortic arch, and ventricular septal defect. Mulay AV, et al. **Ann Thorac Surg** 1997 Apr;63(4):1163-5
Cantrell's syndrome in an infant. Chen LJ, et al. **J Formos Med Assoc** 1997 Apr;96(4):288-90
[Ventricular septal defect] Hoshino S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):149-51 (4 ref.) **(Jpn)**

BLOOD

Elevated circulating levels of tumor necrosis factor in patients with mitral valve disease and ventricular septum defect. Sato Y, et al. **Heart Vessels** 1996;11(4):218-20

CHEMICALLY INDUCED

Histological changes in rat embryonic blood cells as a possible mechanism for ventricular septal defects produced by an N-phenylimide herbicide. Kawamura S, et al. **Teratology** 1996 Nov;54(5):237-44

CLASSIFICATION

[Left ventricular-right atrial communication] Takagi C, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):101-4 (20 ref.) **(Jpn)**

COMPLICATIONS

Magnetic resonance imaging of anomalous origin of the right pulmonary artery from the ascending aorta in association with ventricular septal defect. Lin MH, et al. **Am Heart J** 1996 Nov;132(5):1073-4
Aortic valve prolapse and aortic regurgitation associated with subpulmonic ventricular septal defect. Tohyama K, et al. **Am J Cardiol** 1997 May 1;79(9):1285-9
Chest pain, congestive heart failure, and death in a 65-year-old man [clinical conference] **Am J Med** 1997 Jan; 102(1):118-25
Massive air embolism with pulmonary arterio-bronchial fistula and ventricular septal defect. Simes D, et al. **Anaesth Intensive Care** 1997 Aug;25(4):420-2
Mitral valve repair for mitral regurgitation with ventricular septal defect in children. Hisatomi K, et al. **Ann Thorac Surg** 1996 Dec;62(6):1773-7
Nonobstructing accessory mitral valve tissue and ventricular septal defect. Izumoto H, et al. **Ann Thorac Surg** 1996 Dec; 62(6):1846-8
Unruptured sinus of Valsalva aneurysm with right ventricular outflow tract obstruction associated with ventricular septal defect. Liang CD, et al. **Cathet Cardiovasc Diagn** 1996 Feb; 37(2):158-61
Review of the long-term course of 52 patients with pulmonary atresia and ventricular septal defect. Anatomical and surgical considerations. Hadjo A, et al. **Eur Heart J** 1995 Nov;16(11):1668-74
Congenital aneurysm of the muscular interventricular septum with patent ductus arteriosus. Mohan JC, et al. **Indian Heart J** 1997 Jan-Feb;49(1):83-4
Morgagni hernia in a neonate with ventricular septal defect. Budhiraja S, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):111-2
Isolated right ventricular infarction complicated by ventricular septal defect. Sadaniantz A, et al. **Int J Cardiol** 1996 Jan;53(1):25-8
Tricuspid valve endocarditis due to a jet lesion detected by echocardiography in a 27-year old man with congenital ventricular septal defect. Spyridopoulos I, et al. **J Cardiovasc Surg (Torino)** 1996 Oct;37(5):517-20
Repair of parachute mitral valve with multiple ventricular septal defects: a case report and literature review. Suri RK, et al. **J Heart Valve Dis** 1997 Jan;6(1):63-6 (9 ref.)
Is left ventricular outflow tract obstruction really relieved on long-term follow-up? [letter; comment] Hisatomi K. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):617-9. Comment on: J Thorac Cardiovasc Surg 1996 Feb;111(2):348-58.
Anomalous origin of the left coronary artery from the pulmonary artery associated with ventricular septal defect and mitral stenosis. Vincent RN, et al. **Pediatr Cardiol** 1997 Jul-Aug;18(4):315-7
Closure of a ventricular septal defect in a patient with von Willebrand disease. Tatebe S, et al. **Surg Today** 1997; 27(7):661-3
A case of tetralogy of Fallot with pulmonary atresia and restrictive perimembranous ventricular septal defect. van Meurs-van Woezik H, et al. **Thorac Cardiovasc Surg** 1997 Feb;45(1):46-7
[A rare combination of partial trisomy 9 with pulmonary atresia] Nekarda T, et al. **Klin Padiatr** 1997 May-Jun; 209(3):127-9 (Eng. Abstr.) **(Ger)**
[What is your diagnosis? Eisenmenger reaction in long-term ventricular septal defect] Braunschweig M. **Schweiz Rundsch Med Prax** 1997 Mar 4;86(10):383-4 **(Ger)**
[A case of radical operation for right-sided infective endocarditis due to Pseudomonas aeruginosa concurrent with VSD in the elderly person] Chikazawa G, et al. **Kyobu Geka** 1997 Jun;50(6):483-6 (Eng. Abstr.) **(Jpn)**
[Clinical study of a non-conduit repair for complete transposition of the great arteries with ventricular septal defect and pulmonary stenosis] Nagata N. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):670-8 (Eng. Abstr.) **(Jpn)**
[A case report of an infundibular ventricular septal defect with severe right ventricular outflow tract obstruction due to aneurysm of the aortic sinus of valsalva] Shuntoh K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec; 44(12):2183-6 (Eng. Abstr.) **(Jpn)**
[A case of ventricular septal defect closure in patient with cytomegalo virus hepatitis] Taketani S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2212-5 (Eng. Abstr.) **(Jpn)**
[Mitral atresia with ventricular septal defect] Hoshino S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):152-4 (3 ref.) **(Jpn)**
[Aortic cusp prolapse associated with ventricular septal defect] Morishita Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):155-7 (13 ref.) **(Jpn)**
[Cor triatriatum with interventricular communication: Doppler color ultrasonography and magnetic resonance diagnosis. Repair in the first months] Cabrera A, et al. **Rev Esp Cardiol** 1997 Apr;50(4):290-2 (8 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Digital acoustic analysis of precordial innocent versus ventricular septal defect murmurs in children. Balster DA, et al. **Am J Cardiol** 1997 Jun 1;79(11):1552-5
Apical muscular ventricular septal defects between the left ventricle and the right ventricular infundibulum. Diagnostic and interventional considerations. Kumar K, et al. **Circulation** 1997 Mar 4;95(5):1207-13
Imaging of recurrent ventricular septal defect and supravalvular pulmonary stenosis eight years after assumed total surgical repair of tetralogy of Fallot. van Dijkman PR, et al. **Int J Card Imaging** 1996 Jun;12(2):79-83
Children with heart murmurs: can ventricular septal defect be diagnosed reliably without an echocardiogram? Danford DA, et al. **J Am Coll Cardiol** 1997 Jul;30(1):243-6
Does an early neonatal diagnosis of a later spontaneously closed ventricular septal defect impair quality of life? Laane KM, et al. **Scand Cardiovasc J** 1997;31(4):213-6
[Cor triatriatum with interventricular communication: Doppler color ultrasonography and magnetic resonance diagnosis. Repair in the first months] Cabrera A, et al. **Rev Esp Cardiol** 1997 Apr;50(4):290-2 (8 ref.) (Eng. Abstr.) **(Spa)**
[Pulmonary atresia with intact ventricular septum. A congenital heart defect with improved prognosis] Joelsson BM, et al. **Lakartidningen** 1997 May 7;94(19):1803-6 **(Swe)**

DRUG THERAPY

[Oral enalapril in patients with symptomatic ventricular septal defects] Vázquez-Antona CA, et al. **Arch Inst Cardiol Mex** 1996 Nov-Dec;66(6):496-504 (Eng. Abstr.) **(Spa)**

EMBRYOLOGY

Embryological observations on the morphogenesis of double-outlet right ventricle with subaortic ventricular septal defect and normal arrangement of the great arteries. Männer J, et al. **Thorac Cardiovasc Surg** 1995 Dec; 43(6):307-12

EPIDEMIOLOGY

High prevalence of muscular ventricular septal defect in preterm neonates. Du ZD, et al. **Am J Cardiol** 1996 Nov 15;78(10):1183-5

ETIOLOGY

1989: Correlates of survival in patients with postinfarction ventricular septal defect. Updated in 1997. Lowe JE, et al. **Ann Thorac Surg** 1997 May;63(5):1508-9
Postinfarct ventricular septal defects [letter; comment] Pezzella AT. **Ann Thorac Surg** 1997 Jul;64(1):294-5. Comment on: Ann Thorac Surg 1996 Sep;62(3):903-4.
Spontaneous and induced alterations in the cardiac membranous ventricular septum of fetal, weanling, and adult rats. Solomon HM, et al. **Teratology** 1997 Mar; 55(3):185-94

GENETICS

Paternal risk factors for isolated membranous ventricular septal defects. Ewing CK, et al. **Am J Med Genet** 1997 Jul 11;71(1):42-6
A heritable folate-sensitive fragile site on chromosome 2p 11.2 (FRA2L). Schuffenhauer S, et al. **Chromosome Res** 1996 Apr;4(3):252-4

METABOLISM

Skeletal muscle energy substrates, metabolic products and enzyme activity in infants with symptomatic ventricular septal defect. Lundell KH, et al. **Acta Paediatr** 1996 Nov; 85(11):1314-8

MORTALITY

1989: Correlates of survival in patients with postinfarction ventricular septal defect. Updated in 1997. Lowe JE, et al. **Ann Thorac Surg** 1997 May;63(5):1508-9
Surgical treatment of acquired ventricular septal defects in the elderly. Dalrymple-Hay MJ, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):298-303

PATHOLOGY

The surgical anatomy of ventricular septal defect part IV: double outlet ventricle. Anderson RH, et al. **J Card Surg** 1996 Jan-Feb;11(1):2-11
Atrioventricular septal defect: quantitative anatomy of the left ventricle. Alvarez L, et al. **Pediatr Cardiol** 1996 Mar-Apr;17(2):97-103

PHYSIOPATHOLOGY

Change of complex and periodic heart rate dynamics with change of pulmonary artery pressure in infants with left-to-right shunt lesion. Kul Yum M, et al. **Int J Cardiol** 1997 Jul 25;60(2):143-50

RADIOGRAPHY

Images in cardiovascular medicine. Huge dilatation of pulmonary arteries due To ventricular septal defect with the Eisenmenger syndrome. Partanen J, et al. **Circulation** 1996 Dec 1;94(11):3014-5

SURGERY

Primary repair of isolated ventricular septal defect in infancy guided by echocardiography. Carotti A, et al. **Am J Cardiol** 1997 Jun 1;79(11):1498-501
Allograft root on closed pulmonary valve for subaortic obstruction in double-inlet left ventricle with transposition of the great arteries. Bogers AJ, et al. **Ann Thorac Surg** 1997 Feb;63(2):425-8
Extracardiac right atrium-to-right ventricle homograft for uncorrectable tricuspid valve disease. Al-Halees Z, et al. **Ann Thorac Surg** 1997 Jun;63(6):1794-6
1989: Repair of large muscular ventricular septal defects in infants employing left ventriculotomy. Updated in 1996. Hannan RL, et al. **Ann Thorac Surg** 1997 Jan;63(1):288-9
Ross-Konno procedure with interrupted aortic arch repair in a premature neonate. Hirooka K, et al. **Ann Thorac Surg** 1997 Jul;64(1):249-51
Clamshell for pulmonary atresia, ventricular septal defect, and aortopulmonary collaterals [letter; comment] Luciani GB, et al. **Ann Thorac Surg** 1996 Oct;62(4):1247-8. Comment on: Ann Thorac Surg 1996 Feb;61(2):646-50.
Absorbable pulmonary artery band. Peek GJ, et al. **Ann Thorac Surg** 1997 Aug;64(2):539-41
Postinfarct ventricular septal defects [letter; comment] Pezzella AT. **Ann Thorac Surg** 1997 Jul;64(1):294-5. Comment on: Ann Thorac Surg 1996 Sep;62(3):903-4.
Correction of atrioventricular septal defects [letter; comment] Rosti L, et al. **Ann Thorac Surg** 1997 Apr;63(4):1220-1. Comment on: Ann Thorac Surg 1996 Aug;62(2):519-24; discussion 524-5.
Transaortic approach in double-outlet right ventricle with subaortic ventricular septal defect. Sakamoto K, et al.

Ann Thorac Surg 1997 Sep;64(3):856–8

Perimembranous ventricular septal defect repair: keeping it simple. Mullen JC, et al. **Can J Cardiol** 1996 Sep; 12(9):817–21

Transaortic approach has a role in the surgical treatment of ventricular septal defects. Leão LE, et al. **Cardiovasc Surg** 1996 Apr;4(2):250–4

Apical muscular ventricular septal defects between the left ventricle and the right ventricular infundibulum. Diagnostic and interventional considerations. Kumar K, et al. **Circulation** 1997 Mar 4;95(5):1207–13

Review of the long-term course of 52 patients with pulmonary atresia and ventricular septal defect. Anatomical and surgical considerations. Hadjo A, et al. **Eur Heart J** 1995 Nov;16(11):1668–74

Surgical treatment of acquired ventricular septal defects in the elderly. Dalrymple-Hay MJ, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):298–303

Atrioventricular septal defect and tetralogy of Fallot: a 15-year experience. Delius RE, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):171–6

Combined Rastelli and atrial switch procedure: anatomic and physiologic correction of discordant atrioventricular connection associated with ventricular septal defect and left ventricular outflow tract obstruction. Delius RE, et al. **Eur J Cardiothorac Surg** 1996;10(7):551–5

Results of unifocalization for pulmonary atresia, ventricular septal defect and major aortopulmonary collateral arteries: patency of pulmonary vascular segments. Ishizaka T, et al. **Eur J Cardiothorac Surg** 1996;10(5):331–7; discussion 337–8

Surgical management of atrio ventricular septal defects with normal caryotype. Lacour-Gayet F, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):466–72

Left ventricular false aneurysm after previous repair of acquired ventricular septal defect. Ridley PD, et al. **Eur J Cardiothorac Surg** 1996;10(1):68–70

Lecompte operation with preservation of the pulmonary valve for anomalies of ventriculoarterial connection with ventricular septal defect and subpulmonary stenosis. van Son JA, et al. **Eur J Cardiothorac Surg** 1996;10(7):585–9

Closure of muscular ventricular septal defects through a left ventriculotomy. Wollenek G, et al. **Eur J Cardiothorac Surg** 1996;10(8):595–8

Aneurysm of the membranous septum in adult patients with perimembranous ventricular septal defect. Yilmaz AT, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):307–11

Intraoperative apical ventricular septal defect closure using a modified Rashkind double umbrella. Chaturvedi RR, et al. **Heart** 1996 Oct;76(4):367–9

Application of kinetics in intensive care management of children with generalized oedema. Smith LJ, et al. **Intensive Care Med** 1996 Sep;22(9):964–7

Supravalvular stenotic mitral ring with ventricular septal defect. Watraida S, et al. **J Card Surg** 1997 Jan–Feb; 12(1):46–8

One-stage repair of pulmonary atresia with ventricular septal defect and major aortopulmonary collateral arteries by a handmade trifurcated valved conduit. Yang YJ, et al. **J Card Surg** 1996 Mar–Apr;11(2):151–4

Individualized repair of the left atrioventricular valve in spectrum of atrioventricular septal defect. Tláskal T, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):233–9

Surgical management of aortic regurgitation associated with ventricular septal defect. Ogino H, et al. **J Heart Valve Dis** 1997 Mar;6(2):174–8

Surgical treatment of subaortic stenosis after biventricular repair of double-outlet right ventricle. Belli E, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1570–78; discussion 1578–80

Aortic valve replacement after repair of pulmonary atresia and ventricular septal defect or tetralogy of Fallot. Dodds GA 3rd, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):736–41

One-stage complete unifocalization in infants: when should the ventricular septal defect be closed? Reddy VM, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):858–66; discussion 866–8

Anatomic correction of the syndrome of prolapsing right coronary aortic cusp, dilatation of the sinus of Valsalva, and ventricular septal defect. Yacoub MH, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):253–60; discussion 261

Intraatrial rerouting in left isomerism and late complications. Yaku H, et al. **Jpn Heart J** 1997 Mar;38(2):291–5

Repair of ventricular septal defect in a child with severe pulmonary hypertension—response to inhaled nitric oxide. Cregg N, et al. **Paediatr Anaesth** 1997;7(3):255–8

Facial nerve paralysis following pediatric cardiac surgery. Alcaraz A, et al. **Panminerva Med** 1995 Sep;37(3):148–9

The two-patch technique for complete atrioventricular canal. Mavroudis C, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):35–43

Late results and reoperation after repair of complete and partial atrioventricular canal defect. Permut LC, et al. **Semin Thorac Cardiovasc Surg** 1997 Jan;9(1):44–54

Effect of the addition of albumin to crystalloid cardioplegic solutions on myocardial metabolism in infants undergoing open heart surgery. Hisatomi K, et al. **Surg Today** 1996; 26(6):395–9

Closure of a ventricular septal defect in a patient with von Willebrand disease. Tatebe S, et al. **Surg Today** 1997; 27(7):661–3

Fibrous tissue overgrowth and prosthetic valve endocarditis: report of a case. Kaneko Y, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):150–2

[Double discordances with ventricular septal defect and pulmonary obstruction. A study of 72 cases] Acar P, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):625–9 (Eng. Abstr.) **(Fre)**

[A case report of total cavopulmonary connection following total cavopulmonary shunt] Shiina Y, et al. **Kyobu Geka** 1996 May;49(5):405–7 (Eng. Abstr.) **(Jpn)**

[Mitral valve replacement and closure of ventricular septal defect in the first two months of life] Tanaka T, et al. **Kyobu Geka** 1997 Jul;50(7):577–9 (Eng. Abstr.) **(Jpn)**

[A case of total cavopulmonary connection with preceding tricuspid valve closure in pulmonary atresia and intact ventricular septum, right ventricular–coronary artery fistulae, and coronary artery stenoses] Cho Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct; 44(10):1929–34 (Eng. Abstr.) **(Jpn)**

[Successful surgical treatment of double-outlet right ventricle with intramural coronary artery, using the modified Aubert procedure—a case report] Marui A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):888–93 (Eng. Abstr.) **(Jpn)**

[Effectiveness of continuous pulmonary perfusion during total cardiopulmonary bypass to prevent lung reperfusion injury] Suzuki T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):31–6 (Eng. Abstr.) **(Jpn)**

[A successful staged complete repair in a neonate with coarctation of aorta, ventricular septal defect, and left ventricular outflow tract obstruction—a new palliative operation] Suzuki T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1179–84 (Eng. Abstr.) **(Jpn)**

[A successful retraining of the left ventricle with a left ventricular assist device (bio-medicus) after the arterial switch operation] Takagaki M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1015–9 (Eng. Abstr.) **(Jpn)**

[A case of ventricular septal defect closure in patient with cytomegalo virus hepatitis] Taketani S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Dec;44(12):2212–5 (Eng. Abstr.) **(Jpn)**

[The pulmonary venous flow dynamics of before and after surgical repair in left-to-right shunt diseases—measured by the intraoperative transesophageal new-design Doppler echo-probe] Tsuji K. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1089–97 (Eng. Abstr.) **(Jpn)**

[Vascular ring associated with severe ventricular septal defect—report of a case with simultaneously surgical treatment] Kou T, et al. **Rinsho Kyobu Geka** 1989 Aug; 9(4):392–5 (Eng. Abstr.) **(Jpn)**

[The surgical procedure in an anomalous muscular bundle of the right ventricle combined with an interventricular heart septal defect] Lazarev SM. **Vestn Khir Im I I Grek** 1996;(1):21–5 (Eng. Abstr.) **(Rus)**

[The suturing, plastic repair, prosthesis and autoplasty of defects in the interventricular septum without artificial circulation] Litasova EE, et al. **Vestn Khir Im I I Grek** 1997;156(2):17–22 (Eng. Abstr.) **(Rus)**

THERAPY

Use of Palmaz stents to palliate pulmonary atresia with ventricular septal defect and stenotic aortopulmonary collaterals. Vance MS. **Cathet Cardiovasc Diagn** 1997 Apr; 40(4):387–9

Occlusion of congenital ventricular septal defects by the buttoned device. "Buttoned device" Clinical Trials International Register. Sideris EB, et al. **Heart** 1997 Mar; 77(3):276–9

Percutaneous balloon occlusion of post-infarction ventricular septal defect. Vajifdar B, et al. **Indian Heart J** 1996 Jul–Aug;48(4):407–8

[Interventional occlusion of systemicopulmonary collateral arteries using metal spirals] Hofbeck M, et al. **Z Kardiol** 1997 May;86(5):380–6 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Primary repair of isolated ventricular septal defect in infancy guided by echocardiography. Carotti A, et al. **Am J Cardiol** 1997 Jun 1;79(11):1498–501

Intraoperative evaluation of atrioventricular septal defect repair by color flow mapping echocardiography 1989: Updated in 1997 by Charles E. Canter, MD, Thomas L. Spray, MD, Charles B. Huddleston, MD, and Eric Mendeloff, MD. Canter CE, et al. **Ann Thorac Surg** 1997 Feb;63(2):592–3

Intracardiac shunts. Nacht A, et al. **Crit Care Clin** 1996 Apr; 12(2):295–319 (136 ref.)

Subpulmonary and subaortic ridges in doubly committed subarterial ventricular septal defect: an echocardiographic study [see comments] Ozkutlu S, et al. **Eur Heart J** 1996 Jun;17(6):935–9. Comment in: Eur Heart J 1996 Jun;17(6):809–10.

A closed hole. Barletta G, et al. **G Ital Cardiol** 1997 Jul; 27(7):720 **(Eng, Ita)**

Double outlet right ventricle with unprotected pulmonary vasculature presenting in a woman of 65. Dickinson C, et al. **Heart** 1996 Aug;76(2):187

Morphometric analysis of unbalanced common atrioventricular canal using two-dimensional echocardiography. Cohen MS, et al. **J Am Coll Cardiol** 1996 Oct;28(4):1017–23

Morphology of the ventricular septal defect in two types of interrupted aortic arch. Chin AJ, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):199–201

Doppler echocardiographic analysis of flow in the ductus arteriosus of infants with hypoplastic left heart syndrome: relationship of flow patterns to systemic oxygenation and size of interatrial communication. Rychik J, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):166–73

Atresia or absence of the left-sided atrioventricular connection in the fetus: echocardiographic diagnosis and outcome. Allan LD, et al. **Ultrasound Obstet Gynecol** 1996 Nov;8(5):295–302

Dilated coronary sinus in the fetus: misinterpretation as an atrioventricular canal defect. Park JK, et al. **Ultrasound Obstet Gynecol** 1997 Aug;10(2):126–9

VETERINARY

Evaluation of ventricular septal defects in horses using two-dimensional and Doppler echocardiography. Reef VB. **Equine Vet J Suppl** 1995 Sep;(19):86–95

Different effect of inhaled nitric oxide on yucatan micropig with and without congenital ventricular septal defect. Motsch J, et al. **J Exp Anim Sci** 1996 Aug;38(1):28–44

HEART SEPTUM

Double-outlet right ventricle with intact ventricular septum. Ikemoto Y, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):233–6

Aneurysm of the membranous ventricular septum resulting in pulmonary outflow tract obstruction in congenitally corrected transposition of the great arteries. Reddy SC, et al. **Am Heart J** 1997 Jan;133(1):112–9 (35 ref.)

Comparison of right ventricular outflow tract and apical lead permanent pacing on cardiac output. Giudici MC, et al. **Am J Cardiol** 1997 Jan 15;79(2):209–12

Surgical treatment of dissecting aneurysm of the interventricular septum. Wu Q. **Ann Thorac Surg** 1997 Feb; 63(2):545–7

Transseptal mitral balloon valvotomy in patients with atrial septal aneurysms. Rittoo D, et al. **Cardiology** 1997 May–Jun;88(3):300–4

Blood cyst with a calcium stone originating from the right atrial septum. Niinami H, et al. **Cardiovasc Surg** 1996 Apr; 4(2):260–2

Percutaneous mitral valvuloplasty with the Inoue technique in a patient with heavily calcified interatrial septum. Alfonso F, et al. **Cathet Cardiovasc Diagn** 1996 Sep; 39(1):82–4

Balloon atrial septostomy using a new low-profile balloon catheter: initial clinical results. Hijazi ZM, et al. **Cathet Cardiovasc Diagn** 1997 Feb;40(2):187–90; discussion 191

Induced septal infarction: a new therapeutic strategy for hypertrophic obstructive cardiomyopathy [editorial; comment] Braunwald E. **Circulation** 1997 Apr 15; 95(8):1981–2. Comment on: Circulation 1997 Apr 15;95(8):2075–81.

Nonsurgical septal reduction for hypertrophic obstructive cardiomyopathy: outcome in the first series of patients [see comments] Knight C, et al. **Circulation** 1997 Apr 15; 95(8):2075–81. Comment in: Circulation 1997 Apr 15;95(8):1981–2.

The antenatal diagnosis of fetal atrial septal aneurysm. Haddad S, et al. **Gynecol Obstet Invest** 1996;41(1):27–9 (14 ref.)

Percutaneous balloon dilatation of the atrial septum: immediate and midterm results. Thanopoulos BD, et al. **Heart** 1996 Dec;76(6):502–6

Potential role of mechanical stress in the etiology of pediatric heart disease: septal shear stress in subaortic stenosis. Cape EG, et al. **J Am Coll Cardiol** 1997 Jul;30(1):247–54

Risk of left ventricular assist device as a bridge to heart transplant following postinfarction ventricular septal rupture. Kshettry VR, et al. **J Card Surg** 1997 Mar–Apr; 12(2):93–7

Leftward deviation of the interatrial septum during left heart bypass for repair of a thoracic aortic aneurysm. Hanowell LH, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):251–2

Absent pulmonary valve with intact ventricular septum presenting as cardiorespiratory failure at birth. Horigome H, et al. **Pediatr Cardiol** 1997 Mar–Apr;18(2):136–8

Balloon atrial septostomy under two-dimensional echocardiographic control: a new outlook. Jamjureeruk V, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):197–200

[Giant aneurysm of the interventricular septum. Value of imaging techniques] Revel F, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):285–9 (Eng. Abstr.) **(Fre)**

[Embolic infarction in the anterior cerebral artery in a patient with aneurysm of the interatrial septum (letter)] Burbaud P, et al. **Rev Med Interne** 1997;18(3):259–61 **(Fre)**

[A case report of huge bronchogenic cyst originated in the atrial septum] Soeda T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1781–6 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES see HEART SEPTAL DEFECTS

ANATOMY & HISTOLOGY

Can the location of the large septal artery be predicted? Melo JQ, et al. **Eur J Cardiothorac Surg** 1995;9(11):628–30

EMBRYOLOGY

Primitive interventricular septum, its primordium, and its contribution in the definitive interventricular septum: in vivo labelling study in the chick embryo heart. de la Cruz MV, et al. **Anat Rec** 1997 Apr;247(4):512–20

INJURIES

Rupture of the atrial septum and tricuspid valve after blunt chest trauma. Banning AP, et al. **Ann Thorac Surg** 1997 Jul;64(1):240–2

Delayed presentation and repair of isolated traumatic ventricular septal defect. Sarris GE, et al. **Ann Thorac Surg** 1996 Oct;62(4):1194–6

Post-traumatic ventricular septal defect following coronary bypass surgery. Bortolotti U, et al. **Clin Cardiol** 1997 Jul; 20(7):660–1

Penetration of the interatrial septum: a rare complication of percutaneous transluminal mitral commissurotomy. Tseng CD, et al. **J Formos Med Assoc** 1997 Apr;96(4):272–5

[Ventricular septal rupture after blunt chest trauma] Roithinger FX, et al. **Dtsch Med Wochenschr** 1996 Nov 15;121(46):1424–7 (23 ref.) (Eng. Abstr.) **(Ger)**

INNERVATION

QRS polarity on 12-lead surface ECG. A criterion for the differentiation of right and left posteroseptal accessory atrioventricular pathways. Diker E, et al. **Cardiology** 1997 Jul–Aug;88(4):328–32

Electrocardiographic identification of mid-septal accessory pathways in close proximity to the atrioventricular conduction system. Lorga Filho A, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1984–7

[A study of autonomic innervation of the atrial septum by iso-integral mapping in dogs] Do QB, et al. **Ann Chir** 1996; 50(8):659–66 (Eng. Abstr.) **(Fre)**

METABOLISM

Polysialylated NCAM expression on endocardial cells of the chick primary atrial septum. Gerety M, et al. **Anat Rec** 1997 Jan;247(1):71–84

MICROBIOLOGY

Penetration of the atrialventricular septum by spread of infection from aortic valve endocarditis: early diagnosis by transesophageal echocardiography and implications for surgical management. Barbour SI, et al. **Am Heart J** 1996 Dec;132(6):1287–9

PARASITOLOGY

Images in cardiovascular medicine. Hydatid cyst of the interventricular septum. Aupetit JF, et al. **Circulation** 1997 May 6;95(9):2325–6

PATHOLOGY

Hydatid cyst of the interventricular septum and contribution of magnetic resonance imaging. Kulan K, et al. **Acta Cardiol** 1995;50(6):477–81

Scleroatrophy of the atrioventricular junctional specialized tissue (Lenegre-Lev Disease) in chronic chagas' heart disease. Ramos S, et al. **Acta Cardiol** 1995;50(6):483–7

Fibromuscular dysplasia of small coronary arteries and fibrosis in the basilar ventricular septum in mitral valve prolapse. Burke AP, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):282–91

Lipomatous hypertrophy ("massive fatty deposits") of the interatrial septum [letter; comment] Devine WA, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):107–8. Comment on: Am J Forensic Med Pathol 1996 Mar;17(1):43–8.

Clinical and morphologic features of lipomatous hypertrophy ("massive fatty deposits") of the interatrial septum [see comments] Gay JD, et al. **Am J Forensic Med Pathol** 1996 Mar;17(1):43–8. Comment in: Am J Forensic Med Pathol 1997 Mar;18(1):107–8.

Lipomatous hypertrophy of the cardiac interatrial septum. López-Beltrán A, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):206–7

Intracardiac ectopic thyroid mass. Fujioka S, et al. **Chest** 1996 Nov;110(5):1366–8

Anomalous first septal perforator artery [letter; comment] von Lüdinghausen M. **Clin Anat** 1997;10(1):57–8. Comment on: Clin Anat 1996;9(1):14–8.

Lipomatous hypertrophy of the atrial septum: complementary diagnosis by transoesophageal echocardiography and nuclear magnetic resonance imaging [letter] Muñoz J, et al. **Eur Heart J** 1996 Aug;17(8):1290–1

Significance of atrial septal aneurysm: report of a case. Moorthy SS, et al. **J Clin Anesth** 1996 Nov;8(7):595–7

Acute myocarditis with eosinophilia presenting as asymmetric septal hypertrophy during pregnancy. Sagesaka T, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):147–51

Histologic study of the small pulmonary arteries in 38 patients with pulmonary atresia and intact ventricular septum. Tanaka T, et al. **Jpn Circ J** 1996 May;60(5):293–9

[Septal hypertrophy in the hypertensive patient: clinical reality or curiosity] Corea L, et al. **Cardiologia** 1996 Oct; 41(10):937–44 (88 ref.) **(Ita)**

[Sigmoid septum] Oki T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):519–23 (6 ref.) **(Jpn)**

[Pulmonary atresia with intact ventricular septum] Yokota M. **Ryoikibetsu Shokogun Shirizu** 1996;(13):136–9 (15 ref.) **(Jpn)**

PHYSIOLOGY

Septal function during left ventricular unloading. Moon MR, et al. **Circulation** 1997 Mar 4;95(5):1320–7

PHYSIOPATHOLOGY

The acute hemodynamic effects of right ventricular septal pacing in patients with congestive heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Gold MR, et al. **Am J Cardiol** 1997 Mar 1;79(5):679–81

Electrocardiographic features of septal location of right ventricular outflow tract tachycardia. Gumbrielle TP, et al. **Am J Cardiol** 1997 Jan 15;79(2):213–6

Effects of left heart assist on geometry and function of the interventricular septum. Markley JG, et al. **Ann Thorac Surg** 1996 Dec;62(6):1752–8

Atrial septal motion in effusive--constrictive pericarditis: transesophageal echocardiographic study and hemodynamic correlation. Chen MC, et al. **Chang Keng I Hsueh** 1995 Dec;18(4):329–34

Regional alteration of the transient outward current in human left ventricular septum during compensated hypertrophy. Bailly P, et al. **Circulation** 1997 Aug 19;96(4):1266–74

Anomalous first septal perforator artery: anatomic-clinical correlates [see comments] Topaz O, et al. **Clin Anat** 1996; 9(1):14–8. Comment in: Clin Anat 1997;10(1):57–8.

Mapping of septal ventricular tachycardia: clinical and experimental correlations. Kawamura Y, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):914–25

Cardiac outflow tract septation process in the mouse model of transposition of the great arteries. Yasui H, et al. **Teratology** 1997 Jun;55(6):353–63

[Depressed conduction and increased automaticity in acute septal myocardial infarction (see comments)] Raviña T. **Rev Esp Cardiol** 1996 Jul;49(7):535–8 (Eng. Abstr.). Comment in: Rev Esp Cardiol 1996 Dec;49(12):931–2. **(Spa)**

RADIOGRAPHY

CT appearance of lipomatous hypertrophy of the interatrial septum. Meaney JF, et al. **AJR Am J Roentgenol** 1997 Apr; 168(4):1081–4

CT evaluation of normal interatrial fat thickness. Broderick LS, et al. **J Comput Assist Tomogr** 1996 Nov-Dec; 20(6):950–3

SURGERY

Usefulness of atrial septostomy as a treatment for primary pulmonary hypertension and guidelines for its application. Rich S, et al. **Am J Cardiol** 1997 Aug 1;80(3):369–71

Video-assisted resection of hypertrophied and fibrous intraventricular tissue. Bauer EP, et al. **Ann Thorac Surg** 1997 Apr;63(4):1180–2

Septal myectomy in hypertrophic obstructive cardiomyopathy: late results with stress echocardiography. Göl MK, et al. **Ann Thorac Surg** 1997 Sep;64(3):739–45

Transcatheter alcohol ablation of the septum in a patient of hypertrophic obstructive cardiomyopathy. Bhargava B, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):56–8

Atrial septal puncture for balloon mitral valvotomy [letter] Chow WH, et al. **Cathet Cardiovasc Diagn** 1995 Dec; 36(4):380

Role of the tricuspid annulus and the eustachian valve/ridge on atrial flutter. Relevance to catheter ablation of the septal isthmus and a new technique for rapid identification of ablation success [see comments] Nakagawa H, et al. **Circulation** 1996 Aug 1;94(3):407–24. Comment in: Circulation 1996 Aug 1;94(3):244–6.

Lipomatous hypertrophy of the interatrial septum: indication for surgery? Zeebregts CJ, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):785–7

Palliative blade-balloon atrial septostomy in primary pulmonary hypertension. Fulwani M, et al. **Indian Heart J** 1997 Mar–Apr;49(2):185–6

Prognosis after stroke followed by surgical closure of patent foramen ovale: a prospective follow-up study with brain MRI and simultaneous transesophageal and transcranial Doppler ultrasound. Devuyst G, et al. **Neurology** 1996 Nov; 47(5):1162–6

Blade atrial septostomy: experience with 18 patients. Celiker A, et al. **Turk J Pediatr** 1996 Oct-Dec;38(4):459–66

[A proposal of a composite patch for early repair of ventricular septal perforation after acute myocardial infarction] Nawa S, et al. **Kyobu Geka** 1996 Jul;49(7):539–42 (Eng. Abstr.) **(Jpn)**

[Survival of a patient with postinfarction ventricular septal defect following venoarterial bypass with centrifugal pump and reoperation for residual shunt] Ohuchi H, et al. **Kyobu Geka** 1996 Sep;49(10):838–41 (6 ref.) (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Effects of left heart assist on geometry and function of the interventricular septum. Markley JG, et al. **Ann Thorac Surg** 1996 Dec;62(6):1752–8

Images in cardiovascular medicine. Hydatid cyst of the interventricular septum. Aupetit JF, et al. **Circulation** 1997 May 6;95(9):2325–6

A comparison of power colour flow with frequency based colour flow Doppler in fetal echocardiography. Chua LK, et al. **Clin Radiol** 1997 Sep;52(9):712–4

Cross sectional echocardiographic demonstration of the mechanisms of abnormal interventricular septal motion in congenital total absence of the left pericardium. Oki T, et al. **Heart** 1997 Mar;77(3):247–51

Unusual presentation of an atrial septal aneurysm with left atrial myxoma: a case report. Kolvekar SK, et al. **Int J Cardiol** 1997 Apr 18;59(2):197–8

Echocardiographic demonstration of coronary sinus diverticula in patients with Wolff-Parkinson-White syndrome. Hamilton K, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):337–43

Subaortic septal bulge simulates hypertrophic cardiomyopathy by angulation of the septum with age, independent of focal hypertrophy. An echocardiographic study. Krasnow N. **J Am Soc Echocardiogr** 1997 Jun; 10(5):545–55

Echocardiographic imaging techniques with subcostal and right parasternal longitudinal views in detecting sinus venosus atrial septal defects. McDonald RW, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):195–8

Atrial septal aneurysm: a new classification in two hundred five adults. Olivares-Reyes A, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):644–56

Echocardiographic diagnosis of right and left sinus of Valsalva aneurysms dissecting into the ventricular septum. Silance PG, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr; 9(2):190–4 (12 ref.)

Fetal atrial septal aneurysm. Prenatal diagnosis by ultrasonography. Pinette MG, et al. **J Reprod Med** 1997 Aug;42(8):459–62

Quantitative estimation of ultrasonographic attenuation in the myocardium using conventional echocardiographic instrumentation. Kumar A, et al. **J Ultrasound Med** 1997 May;16(5):335–9

[Intraoperative contrast echocardiography for detection of a patient foramen ovale using a provocation test and ventilation with PEEP respiration] Papadopoulos G, et al. **Anaesthesist** 1996 Mar;45(3):235–9 (Eng. Abstr.) **(Ger)**

[Study of the interatrial septum using transthoracic echocardiography] Mattioli AV. **Cardiologia** 1997 Mar; 42(3):257–64 (57 ref.) **(Ita)**

[Differentiation of hypertrophic cardiomyopathy and hypertensive cardiac hypertrophy using the patterns of interventricular septum hypertrophy] Ieki K, et al. **J Cardiol** 1996 Jun;27(6):309–14 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Influences of aortic pressure gradient and ventricular septal thickness with systolic coronary flow in aortic valve stenosis. Tamborini G, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1303–6

HEART SOUNDS

see related
HEART AUSCULTATION
HEART MURMURS
PHONOCARDIOGRAPHY

Prognostic significance of a clearly audible fourth heart sound detected a month after an acute myocardial infarction. Ishikawa M, et al. **Am J Cardiol** 1997 Sep 1; 80(5):619–21

Relationship of the fourth heart sound to atrial systolic transmitral flow deceleration. McGuire AM, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1527–36

The appearance of gallop rhythm after exercise stress testing. Tavel ME. **Clin Cardiol** 1996 Nov;19(11):887–91

Unusual left ventricular wall motion and a loud added sound during the isovolumic relaxation period in a patient with hypertensive heart disease. Mishiro Y, et al. **Heart** 1997 Mar;77(3):290–2

Fast detection of venous air embolism in Doppler heart sound using the wavelet transform. Chan BC, et al. **IEEE Trans Biomed Eng** 1997 Apr;44(4):237–46

Spectral composition of heart sounds before and after mechanical heart valve implantation using a modified forward-backward Prony's method. Sava HP, et al. **IEEE Trans Biomed Eng** 1996 Jul;43(7):734–42

Time-frequency analysis of the first heart sound. Part 1: Simulation and analysis. Chen D, et al. **Med Biol Eng Comput** 1997 Jul;35(4):306–10

Time-frequency analysis of the first heart sound. Part 2: An appropriate time-frequency representation technique. Chen D, et al. **Med Biol Eng Comput** 1997 Jul;35(4):311–7

Rumbles and prosthetic heart valves [letter; comment] Commerford PJ, et al. **N Engl J Med** 1997 Apr 24; 336(17):1259–60. Comment on: N Engl J Med 1996 Aug 8;335(6):407–16.

An implantable intracardiac accelerometer for monitoring myocardial contractility. The Multicenter PEA Study Group. Rickards AF, et al. **Pacing Clin Electrophysiol** 1996

HEART SOUNDS

Dec;19(12 Pt 1):2066–71

PHYSIOLOGY

Estimation of pulmonary artery pressure by spectral analysis of the second heart sound. Chen D, et al. **Am J Cardiol** 1996 Oct 1;78(7):785–9

Adaptive reduction of heart sounds from lung sounds using fourth-order statistics. Hadjileontiadis LJ, et al. **IEEE Trans Biomed Eng** 1997 Jul;44(7):642–8

The third heart sound is the result of a shock wave caused by the ventricular inflow velocity exceeding the wave velocity. Owen A. **Med Hypotheses** 1996 Aug;47(2):81–3

HEART SURGERY

Calculated versus measured oxygen consumption during and after cardiac surgery. Is it possible to estimate lung oxygen consumption? Keinänen O, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):803–9

Effects of open heart surgery on oral mucous host defence systems. Lähteenmäki M, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):837–42

Relationship between intra- and postoperative oxygen transport and prolonged intensive care after cardiac surgery: a prospective study. Pölönen P, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):810–7

Recall of awareness during cardiac anaesthesia: influence of feedback information to the anaesthesiologist. Ranta S, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):554–60

Impedance cardiography in cardiac surgery patients: abnormal body weight gives unreliable cardiac output measurements. van der Meer BJ, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):708–12

Intraoperative neonatal myocardial management: protection vs. injury. Rebeyka IM. **Adv Card Surg** 1996;8:1–17

Coagulation in cardiac surgery. Royston D. **Adv Card Surg** 1996;8:19–45 (125 ref.)

Effects of oxygenator and pumping devices on blood parameters in open heart surgery: a clinical study. Barlas S, et al. **Adv Exp Med Biol** 1996;388:617–23

Delirium after cardiac surgery. The possible role of tryptophan in relation to the other neutral aminoacids. van der Mast RC, et al. **Adv Exp Med Biol** 1996;398:93–6

Safety of MR imaging in patients who have retained metallic materials after cardiac surgery. Hartnell GG, et al. **AJR Am J Roentgenol** 1997 May;168(5):1157–9

Telephone reporting of cardiac procedure results to primary care physicians. Blankenship JC, et al. **Am J Cardiol** 1997 Apr 1;79(7):984–6

Michael Ellis DeBakey: a conversation with the editor [interview by William C. Roberts] [see comments] DeBakey ME. **Am J Cardiol** 1997 Apr 1;79(7):929–50. Comment in: Am J Cardiol 1997 Aug 1;80(3):394–5.

Survival and risk factor analysis for the Norwood procedure for hypoplastic left heart syndrome. Kern JH, et al. **Am J Cardiol** 1997 Jul 15;80(2):170–4

Management of cardiac allograft vasculopathy by transmyocardial laser revascularization. Malik FS, et al. **Am J Cardiol** 1997 Jul 15;80(2):224–5

Rewarming cardiac surgical patients: warm water vs warm air. Sanford MM. **Am J Crit Care** 1997 Jan;6(1):39–45

Does gallstone formation after open cardiac surgery result only from latent hemolysis by replaced valves? [see comments] Azemoto R, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2185–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1069–70.

Antifibrinolytic drugs and perioperative hemostasis. Slaughter TF, et al. **Am J Hematol** 1997 Sep;56(1):32–6 (56 ref.)

Kinetics of reticulocyte maturity fractions and indices and iron status during therapy with epoetin beta (recombinant human erythropoietin) in cardiac surgery patients. Sowade O, et al. **Am J Hematol** 1997 Jun;55(2):89–96

Cost-effectiveness of preoperative autologous blood donation for orthopedic and cardiac surgeries. AuBuchon JP. **Am J Med** 1996 Aug 26;101(2A):38S–42S (11 ref.)

Haemodynamic and renal effects of dopexamine after cardiac surgery in children. Habre W, et al. **Anaesth Intensive Care** 1996 Aug;24(4):435–9

Association between oxygen delivery and consumption in patients undergoing cardiac surgery. Is there supply dependence? Myles PS, et al. **Anaesth Intensive Care** 1996 Dec;24(6):651–7

The effect of supplemental oxygen on the incidence of hypoxaemia after premedication in patients undergoing cardiac surgery. Royse CF, et al. **Anaesth Intensive Care** 1997 Aug;25(4):347–9

Isoflurane for removal of chest drains after cardiac surgery [see comments] Bryden FM, et al. **Anaesthesia** 1997 Feb; 52(2):173–5. Comment in: Anaesthesia 1997 Jul;52(7):718.

Thoracic epidural analgesia in cardiac surgery [editorial] [see comments] Desborough JP. **Anaesthesia** 1996 Sep; 51(9):805–7. Comment in: Anaesthesia 1997 Feb;52(2):186–7.

Epidurals for cardiac surgery [letter; comment] Ponte J. **Anaesthesia** 1997 Feb;52(2):186–7. Comment on: Anaesthesia 1996 Sep;51(9):805–7.

Society of Cardiovascular Anesthesiologists 19th annual meeting. Baltimore, Maryland, May 10–14, 1997. Abstracts. **Anesth Analg** 1997 Apr;84(4 Suppl):SCA1–143

A comparison of the hemodynamic effects of amrinone and sodium nitroprusside in infants after cardiac surgery. Bailey JM, et al. **Anesth Analg** 1997 Feb;84(2):294–8

Intrathecal and epidural anesthesia and analgesia for cardiac surgery. Chaney MA. **Anesth Analg** 1997 Jun;84(6):1211–21 (84 ref.)

The efficacy and cost of aprotinin in children undergoing reoperative open heart surgery. D'Errico CC, et al. **Anesth Analg** 1996 Dec;83(6):1193–9

Antithrombin III during cardiac surgery: effect on response of activated clotting time to heparin and relationship to markers of hemostatic activation. Despotis GJ, et al. **Anesth Analg** 1997 Sep;85(3):498–506

The effect of hypothermic cardiopulmonary bypass on plasma adrenomedullin in adult cardiac surgical patients. Nagata N, et al. **Anesth Analg** 1997 Jun;84(6):1193–7

Preoperative therapy with amiodarone and the incidence of acute organ dysfunction after cardiac surgery. Rady MY, et al. **Anesth Analg** 1997 Sep;85(3):489–97

The efficacy of tranexamic acid versus placebo in decreasing blood loss in pediatric patients undergoing repeat cardiac surgery. Reid RW, et al. **Anesth Analg** 1997 May; 84(5):990–6

Predictive factors for usefulness of fiberoptic pulmonary artery catheter for continuous oxygen saturation in mixed venous blood monitoring in cardiac surgery. Vedrinne C, et al. **Anesth Analg** 1997 Jul;85(1):2–10

Evaluation of a new point-of-care test that measures PAF-mediated acceleration of coagulation in cardiac surgical patients. Despotis GJ, et al. **Anesthesiology** 1996 Dec;85(6):1311–23

The effect of electronic record keeping and transesophageal echocardiography on task distribution, workload, and vigilance during cardiac anesthesia. Weinger MB, et al. **Anesthesiology** 1997 Jul;87(1):144–55; discussion 29A–30A

Reactive oxygen species. Enzymatic and nonenzymatic antioxidants in patients undergoing open heart surgery. Suri RK, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:366–70

Cerebral near-infrared spectroscopy in children undergoing heart surgery [letter] Wollert HG, et al. **Ann Neurol** 1996 Nov;40(5):818–9

Magnesium and cardiac surgery. Satur CM. **Ann R Coll Surg Engl** 1997 Sep;79(5):349–54

Serious traumatic injury and major burns [letter; comment] García-Unzueta MT, et al. **Ann Surg** 1997 Jan;225(1):132–3, 135. Comment on: Ann Surg 1995 Oct;222(4):482–90; discussion 490–2.

Adenosine reduces postbypass transfusion requirements in humans after heart surgery. Mentzer RM Jr, et al. **Ann Surg** 1996 Oct;224(4):523–9; discussion 529–30

Outcomes '97. Proceedings and abstracts of conference on cardiac and vascular surgery: neurobehavioral assessment, physiological monitoring and cerebral protective strategies. Key West, Florida, April 24–27, 1997. **Ann Thorac Surg** 1997 Sep;64(3):897–926

Diagnostic transaortic cardioscopy of the left ventricle. Bauer EP, et al. **Ann Thorac Surg** 1996 Dec;62(6):1845–6

Hemorrhage and the use of blood products after adult cardiac operations: myths and realities. Bélisle S, et al. **Ann Thorac Surg** 1996 Dec;62(6):1908–17 (63 ref.)

Biochemical markers of myocardial injury during cardiac operations. Birdi I, et al. **Ann Thorac Surg** 1997 Mar; 63(3):879–84 (59 ref.)

Endothelial cell injury in cardiovascular surgery: the systemic inflammatory response. Boyle EM Jr, et al. **Ann Thorac Surg** 1997 Jan;63(1):277–84 (62 ref.)

Toward further reducing wound infections in cardiac operations. Brown IW Jr, et al. **Ann Thorac Surg** 1996 Dec; 62(6):1783–9

Cine-MRI-aided endomyocardectomy in idiopathic hypereosinophilic syndrome. Chandra M, et al. **Ann Thorac Surg** 1996 Dec;62(6):1856–8

Laboratory evaluation of hemostasis before cardiac operations. de Moerloose P. **Ann Thorac Surg** 1996 Dec; 62(6):1921–5 (57 ref.)

Modified ultrafiltration after cardiopulmonary bypass in pediatric cardiac surgery. Draaisma AM, et al. **Ann Thorac Surg** 1997 Aug;64(2):521–5

Port-access cardiac operations with cardioplegic arrest. Fann JI, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S35–9

One-month histologic response of transmyocardial laser channels with molecular intervention. Fleischer KJ, et al. **Ann Thorac Surg** 1996 Oct;62(4):1051–8

Reduction in requirements for allogeneic blood products: nonpharmacologic methods. Hardy JF, et al. **Ann Thorac Surg** 1996 Dec;62(6):1935–43 (62 ref.)

Reduction in requirements for allogeneic blood products: pharmacologic methods. Janssens M, et al. **Ann Thorac Surg** 1996 Dec;62(6):1944–50 (61 ref.)

Extracorporeal circulation, hemocompatibility, and biomaterials. Janvier G, et al. **Ann Thorac Surg** 1996 Dec; 62(6):1926–34 (56 ref.)

Rapid safe central venous access in children and adults undergoing open cardiac operations. Jaquiss RD, et al. **Ann Thorac Surg** 1997 Mar;63(3):862–3

Predictors of sinus rhythm restoration after Cox maze procedure concomitant with other cardiac operations. Kamata J, et al. **Ann Thorac Surg** 1997 Aug;64(2):394–8

Risks of cardiac operations for elderly patients: reduction of the age factor. Katz NM, et al. **Ann Thorac Surg** 1997 May;63(5):1309–14

Preoperative clinical assessment of hemostatic function in patients scheduled for a cardiac operation. Klopfenstein CE. **Ann Thorac Surg** 1996 Dec;62(6):1918–20 (57 ref.)

Coagulase-negative staphylococcal sternal wound infections after open heart operations. Mossad SB, et al. **Ann Thorac Surg** 1997 Feb;63(2):395–401

Predicting transfusion [letter; comment] Rosengart TK, et al. **Ann Thorac Surg** 1996 Dec;62(6):1885–6. Comment on: Ann Thorac Surg 1996 Jan;61(1):8–9. Comment on: Ann Thorac Surg 1996 Jan;61(1):27–32.

Spool-like stent for the open sternum after cardiac operations. Satoh H, et al. **Ann Thorac Surg** 1997 Feb; 63(2):572–4

The role of autologous pericardium in cardiac surgery [letter; comment] Scrofani R, et al. **Ann Thorac Surg** 1997 Jan; 63(1):291. Comment on: Ann Thorac Surg 1996 Jan;61(1):271–2.

Endothelial cell injury in cardiovascular surgery: the pathophysiology of vasomotor dysfunction. Sellke FW, et al. **Ann Thorac Surg** 1996 Oct;62(4):1222–8 (59 ref.)

Late outcome and quality of life after complicated heart operations. Söderlind K, et al. **Ann Thorac Surg** 1997 Jan; 63(1):124–8

Effects of surgical manipulation on coronary stents: should surgical strategy be altered? Tovar EA, et al. **Ann Thorac Surg** 1997 Jan;63(1):37–40

Hoarseness after cardiac operations: vocal cord paralysis or a conversion disorder? [letter] Tovar EA. **Ann Thorac Surg** 1996 Oct;62(4):1237

Prophylactic drug treatment in the prevention of postoperative bleeding [letter; comment] Tyers GF. **Ann Thorac Surg** 1997 Mar;63(3):912. Comment on: Ann Thorac Surg 1994 Nov;58(5):1305–6.

Previous open heart operation: a contribution to impaired outcome after cardiac transplantation? Uthoff K, et al. **Ann Thorac Surg** 1997 Jan;63(1):117–23

Teicoplanin in cardiac surgery: intraoperative pharmacokinetics and concentrations in cardiac and mediastinal tissues. Martin C, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1150–5

Patient risk factors for pressure ulcers during cardiac surgery. Lewicki LJ, et al. **AORN J** 1997 May;65(5):933–42

Cardiovascular effects of intravenous midazolam after open heart surgery. Shekerdemian L, et al. **Arch Dis Child** 1997 Jan;76(1):57–61

Experiences of women in cardiothoracic surgery. A gender comparison. Dresler CM, et al. **Arch Surg** 1996 Nov; 131(11):1128–34; discussion 1135

Measurement of cytokine levels by coronary sinus blood sampling during cardiac surgery with cardiopulmonary bypass. Karube N, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M787–91

Avoidance of allogeneic blood transfusions by treatment with epoetin beta (recombinant human erythropoietin) in patients undergoing open-heart surgery. Sowade O, et al. **Blood** 1997 Jan 15;89(2):411–8

European Association of Cardiothoracic Anaesthesiologists 12th annual meeting. Thessaloniki, Greece, 25–28 Jun 1997. Abstracts. **Br J Anaesth** 1997 Jun;78 Suppl 2:1–53

Nausea and vomiting after cardiac surgery [see comments] Grebenik CR, et al. **Br J Anaesth** 1996 Sep;77(3):356–9. Comment in: Br J Anaesth 1997 Apr;78(4):476.

Adult cardiac anaesthesia. Freeman JM, et al. **Br J Hosp Med** 1994 Jan 19–Feb 1;51(1–2):40–3 (3 ref.)

Interleukin-10 and interleukin-1 receptor antagonists increase during cardiac surgery. Kawamura T, et al. **Can J Anaesth** 1997 Jan;44(1):38–42

High-dose thiopentone for open-chamber cardiac surgery: a retrospective review. Pascoe EA, et al. **Can J Anaesth** 1996 Jun;43(6):575–9

Autologous blood and cardiac surgery [letter] Pinkerton PH, et al. **Can J Anaesth** 1996 Nov;43(11):1180

Propofol or midazolam for sedation and early extubation following cardiac surgery. Searle NR, et al. **Can J Anaesth** 1997 Jun;44(6):629–35

Can clinicians predict ICU length of stay following cardiac surgery? Tu JV, et al. **Can J Anaesth** 1996 Aug;43(8):789–94

Chest 1997. Moving toward the future with patient-centered care. New Orleans, Louisiana. October 26–30, 1997. Abstracts. **Chest** 1997 Sep;112(3 Suppl):1S–180S

The impact of nosocomial infections on patient outcomes following cardiac surgery. Kollef MH, et al. **Chest** 1997 Sep;112(3):666–75

Comparison of early IgM-enriched immunoglobulin vs polyvalent IgG administration in score-identified postcardiac surgical patients at high risk for sepsis. Pilz G, et al. **Chest** 1997 Feb;111(2):419–26

Early vs conventional extubation after cardiac surgery with cardiopulmonary bypass. Reyes A, et al. **Chest** 1997 Jul; 112(1):193–201

Does the type of surgical operation influence the changes observed in fibrinolytic activity after cardiopulmonary bypass? [letter] Sánchez JM, et al. **Chest** 1997 Sep; 112(3):856–7

Erythropoietin in pediatric cardiac surgery: clinical efficacy and effective dose. Shimpo H, et al. **Chest** 1997 Jun; 111(6):1565–70

Outcome-associated factors in pediatric patients treated with extracorporeal membrane oxygenator after cardiac surgery. Kulik TJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II63–8

Glenn Lecture. How to choose a cardiac surgeon. Stark J. **Circulation** 1996 Nov 1;94(9 Suppl):II1–4

Monitoring of hemostasis in cardiac surgical patients: impact of point-of-care testing on blood loss and transfusion outcomes. Despotis GJ, et al. **Clin Chem** 1997 Sep;

43(9):1684–96 (153 ref.)
The evidence of oxidative stress in cardiac surgery and septic patients: a comparative study. Starkopf J, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):77–88
Urodilatin (INN:ularitide) as a new drug for the therapy of acute renal failure following cardiac surgery. Meyer M, et al. **Clin Exp Pharmacol Physiol** 1997 May;24(5):374–6
Lessons from two linked clusters of acute hepatitis B in cardiothoracic surgery patients [see comments] Heptonstall J. **Commun Dis Rep CDR Rev** 1996 Aug 16;6(9):R119–25 . Comment in: Commun Dis Rep CDR Rev 1996 Nov 8;6(12):R178.
Quality of life after cardiac surgery complicated by multiple organ failure [see comments] Nielsen D, et al. **Crit Care Med** 1997 Jan;25(1):52–7. Comment in: Crit Care Med 1997 Jan;25(1):3.
Assessing quality of life following cardiac surgery: an elusive goal [editorial; comment] Salomon NW. **Crit Care Med** 1997 Jan;25(1):3. Comment on: Crit Care Med 1997 Jan;25(1):52–7.
The use of thyroid hormone in cardiac surgery. Dyke C. **Curr Opin Cardiol** 1996 Nov;11(6):603–9 (51 ref.)
Early release following cardiac surgery. Keon WJ, et al. **Curr Opin Cardiol** 1996 Nov;11(6):599–602 (20 ref.)
Spontaneous restoration of sinus rhythm after cardiac surgery [letter] Sechi LA, et al. **Eur Heart J** 1996 Dec;17(12):1914 (5 ref.)
Ischaemic preconditioning and cardiac surgery. Alkhulaifi AM, et al. **Eur J Cardiothorac Surg** 1996;10(9):792–8 (46 ref.)
Percutaneous dilational tracheostomy in post-cardiac surgery patients [letter] Barron DJ, et al. **Eur J Cardiothorac Surg** 1996;10(1):74–5
Endothelin plasma levels during heart surgery: influence on pulmonary artery pressure? Knothe C, et al. **Eur J Cardiothorac Surg** 1996;10(7):579–84
Recombinant hirudin as an anticoagulant during cardiac operations: experiments in a pig model. Riess FC, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):739–45
A prospective randomised controlled trial of postoperative autotransfusion with and without a heparin-bonded circuit. Unsworth-White MJ, et al. **Eur J Cardiothorac Surg** 1996; 10(1):38–47
Can clonidine, enoximone, and enalaprilat help to protect the myocardium against ischaemia in cardiac surgery? [see comments] Boldt J, et al. **Heart** 1996 Sep;76(3):207–13. Comment in: Heart 1996 Sep;76(3):189–90.
Rapid recovery management: the effects on the patient who has undergone heart surgery. Dunstan JL, et al. **Heart Lung** 1997 Jul–Aug;26(4):289–98
The development of an early extubation algorithm for patients after cardiac surgery. Maxam-Moore VA, et al. **Heart Lung** 1996 Jan–Feb;25(1):61–8
Bcl-2 and p53 protein expression in aortic, mammary artery and saphenous vein biopsies in patients subjected to open heart surgery. Aaltomaa S, et al. **In Vivo** 1997 Jul–Aug; 11(4):337–43
Methods for monitoring hemostasis during and following cardiac surgery. Huffman SM, et al. **Int Anesthesiol Clin** 1996 Spring;34(2):123–39 (34 ref.)
Advances in myocardial protection: the role of mechanical devices in providing cardioprotective strategies. Stammers AH. **Int Anesthesiol Clin** 1996 Spring;34(2):61–84 (66 ref.)
Surgical anticipatory stress manifests itself in immunocyte desensitization: evidence for autoimmunoregulatory involvement. Fricchione G, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S65–73
Preventing the inflammatory response to open-heart surgery: the role of aprotinin and other protease inhibitors. Royston D. **Int J Cardiol** 1996 Apr 26;53 Suppl:S11–37 (137 ref.)
The role of cytokines in cardiac surgery. Tønnesen E, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S1–10 (77 ref.)
Delirium and cognitive disorders after cardiac operations: relationship to pre- and intraoperative quantitative electroencephalogram. Hofsté WJ, et al. **Int J Clin Monit Comput** 1997 Feb;14(1):29–36
The effect of cimetidine and ranitidine on cognitive function in postoperative cardiac surgical patients. Kim KY, et al. **Int J Psychiatry Med** 1996;26(3):295–307
Renal failure associated with unrecognized hyperoncotic states after pediatric heart surgery. Bartels C, et al. **Intensive Care Med** 1996 May;22(5):492–4
Cisapride reduces postoperative gastrocaecal transit time after cardiac surgery in children [see comments] Bindl L, et al. **Intensive Care Med** 1996 Sep;22(9):977–80. Comment in: Intensive Care Med 1997 Apr;23(4):482–3.
Cisapride in reducing postoperative gastrocaecal transit time after cardiac surgery in children [letter; comment] Jenkins IR. **Intensive Care Med** 1997 Apr;23(4):482–3. Comment on: Intensive Care Med 1996 Sep;22(9):977–80.
Analysis of P50 and oxygen transport in patients after cardiac surgery. Oudemans-van Straaten HM, et al. **Intensive Care Med** 1996 Aug;22(8):781–9
Pain relief following cardiac surgery: a review. Taylor A, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):1–9 (68 ref.)
Intraoperative transesophageal echocardiography and epiaortic ultrasound for assessment of atherosclerosis of the thoracic aorta. Dávila-Román VG, et al. **J Am Coll Cardiol** 1996 Oct;28(4):942–7
Cardiac surgery in nonagenarians. Samuels LE, et al. **J Card Surg** 1996 Mar–Apr;11(2):121–7
Glucose versus lactated Ringer's solution during pediatric cardiac surgery [see comments] Aouifi A, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):411–4. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):409–10.
Intraoperative plasmapheresis in cardiac surgery. Armellin G, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):13–7
Comparison of predicted with measured creatinine clearance in cardiac surgical patients. Bloor GK, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):899–902
Con: transesophageal echocardiography is not a cost-effective monitor during cardiac surgery. Bryden KE, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):250–2
Hemostatic-endothelial interactions: a potential anticoagulant role of the endothelium in the pulmonary circulation during cardiac surgery. Cardigan RA, et al. **J Cardiothorac Vasc Anesth** 1997 May;11(3):329–36 (59 ref.)
Inhaled prostacyclin for treatment of pulmonary hypertension after cardiac surgery or heart transplantation: a pharmacodynamic study. Haraldsson A, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):864–8
Immediate postoperative care of cardiac surgical patients. Higgins TL, et al. **J Cardiothorac Vasc Anesth** 1996 Aug; 10(5):643–58 (142 ref.)
Pro: automated electrocardiogram ST-segment monitoring should be used in the monitoring of cardiac surgical patients. Jopling MW. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):678–80
Pro: intraoperative transesophageal echocardiography is a cost-effective strategy for cardiac surgical procedures. Murphy PM. **J Cardiothorac Vasc Anesth** 1997 Apr; 11(2):246–9
Con: ST-segment analysis--who needs it? Proctor LT, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):681–2
Lumbar epidural morphine infusions for children undergoing cardiac surgery. Shayevitz JR, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):217–24
Management of tracheal extubation after cardiac surgery [letter] Smith D, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):692
Intrathecal morphine: one year's experience in cardiac surgical patients. Taylor A, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):225–8
Is there a role for the Carlen's double-lumen tube in cardiothoracic anesthesia? [letter; comment] Thangathurai D, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):693 . Comment on: J Cardiothorac Vasc Anesth 1995 Feb;9(1):116.
High risk cardiac surgery in Jehovah's Witnesses. Grebenik CR, et al. **J Cardiovasc Surg (Torino)** 1996 Oct;37(5):511–5
Influence of case scheduling on outcome in cardiac surgery. Klima U, et al. **J Cardiovasc Surg (Torino)** 1997 Feb; 38(1):63–8
Late posterior cardiac tamponade after open heart surgery. Yilmaz AT, et al. **J Cardiovasc Surg (Torino)** 1996 Dec; 37(6):615–20
How to run a heart surgical unit: experiences during the first year of the Department of Cardiothoracic and Vascular Surgery, University Clinic of Regensburg. Zurbrügg HR, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):53–61
Removal of retained air during cardiac surgery with transesophageal echocardiography and capnography. Hoka S, et al. **J Clin Anesth** 1997 Sep;9(6):457–61
Clinical evaluation of an automatic blood pressure controller during cardiac surgery. Meijers RH, et al. **J Clin Monit** 1997 Jul;13(4):261–8
Aging, immunity, and cardiopulmonary bypass surgery: adding insult to injury [editorial; comment] Peterson PK. **J Lab Clin Med** 1997 Jun;129(6):578–9 (9 ref.). Comment on: J Lab Clin Med 1997 Jun;129(6):592–602.
The effect of preoperative recombinant human erythropoietin therapy on platelets and hemostasis in patients undergoing cardiac surgery. Sowade O, et al. **J Lab Clin Med** 1997 Mar;129(3):376–83
Evaluation of oxygen availability with oxygen status algorithm in patients undergoing open heart surgery treated with epoetin beta. Sowade O, et al. **J Lab Clin Med** 1997 Jan;129(1):97–105
Patients treated with unfractionated heparin during open heart surgery are at high risk to form antibodies reactive with heparin:platelet factor 4 complexes [see comments] Visentin GP, et al. **J Lab Clin Med** 1996 Oct;128(4):376–83 . Comment in: J Lab Clin Med 1996 Oct;128(4):346–7.
Early extubation following open heart surgery in pediatric patients with congenital heart diseases. Prakanrattana U, et al. **J Med Assoc Thai** 1997 Feb;80(2):87–95
Modulation of an acquired coagulation factor V inhibitor with intravenous immune globulin. Tarantino MD, et al. **J Pediatr Hematol Oncol** 1997 May–Jun;19(3):226–31
Fetal surgical interventions and the development of the heart in congenital diaphragmatic hernia. Karamanoukian HL, et al. **J Surg Res** 1996 Sep;65(1):5–8
Diagnostic use of inhaled nitric oxide after neonatal cardiac operations. Adatia I, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1403–5
Postoperative use of aprotinin in cardiac operations: an alternative to its prophylactic use. Ciçek S, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1462–7
Whole blood heparin concentration measurements by automated protamine titration agree with plasma anti-Xa measurements. Despotis GJ, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):611–3
Prevalence of anaphylactic reactions to aprotinin: analysis of two hundred forty-eight reexposures to aprotinin in heart operations. Dietrich W, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):194–201
Low-dose amiodarone-related complications after cardiac operations. Dimopoulou I, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):31–7
Strengthening international ties in cardiothoracic surgery [letter] Dyke C. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1679–80
Insulin and amino acid infusion after cardiac operations: effects on systemic and renal perfusion. Jeppsson A, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):594–602
Preliminary clinical results of implantation of biodegradable pericardial substitute in pediatric open heart operations. Kalangos A, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1401–2
Complications of femoral artery cannulation for perioperative monitoring in children. Kocis KC, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1399–400
Use of epsilon-aminocaproic acid to reduce bleeding [letter; comment] Lemmer JH Jr. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1125–7. Comment on: J Thorac Cardiovasc Surg 1996 Oct;112(4):1098–107.
Cardiac surgery in a high-risk group of patients: is prolonged postoperative antibiotic prophylaxis effective? Niederhäuser U, et al. **J Thorac Cardiovasc Surg** 1997 Aug; 114(2):162–8
Ischemic preconditioning in cardiac surgery: a word of caution. Perrault LP, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1378–86
Native cardiectomy in a heterotopic heart transplant recipient. Pham SM, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1109–11
Nosocomial infections in patients having cardiovascular operations: a multivariate analysis of risk factors. Rebollo MH, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):908–13
Reduction of bleeding after heart operations through the prophylactic use of epsilon-aminocaproic acid [see comments] Vander Salm TJ, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1098–107. Comment in: J Thorac Cardiovasc Surg 1997 Jun;113(6):1125–7.
Relationship of preoperative antiendotoxin core antibodies and adverse outcomes following cardiac surgery. Bennett-Guerrero E, et al. **JAMA** 1997 Feb 26; 277(8):646–50
Valve detachment after aortic valve replacement—a successfully reoperated case with the Cabrol technique. Aoyagi S, et al. **Jpn Circ J** 1996 Jun;60(6):377–81
Role of the heart surgeon in the emergency treatment of diuretic resistant edema in grades III–IV heart failure. de Vivo F, et al. **Kidney Int Suppl** 1997 Jun;59:S66–8
Human factors and surgical outcomes: a Cartesian dream. de Leval MR. **Lancet** 1997 Mar 8;349(9053):723–5
Examining vulnerability of broken young hearts to injury. Sun LS, et al. **Lancet** 1996 Nov 16;348(9038):1325–6
Rhabdomyolytic acute renal failure in cardiac surgery. A clinical case. Maccario M, et al. **Minerva Anestesiol** 1995 Sep;61(9):397–400
Atrial arrhythmias after cardiothoracic surgery [published erratum appears in N Engl J Med 1997 Jul 17;337(3):209] Ommen SR, et al. **N Engl J Med** 1997 May 15; 336(20):1429–34 (58 ref.)
Innovations at Deborah Heart and Lung Center. Maranhao V. **N J Med** 1997 May;94(5):69–70
Compatibility of Islam and science [letter] Pearlstein E. **Nature** 1997 May 29;387(6632):448
Lactate metabolism and regional lactate exchange after cardiac surgery. Takala J, et al. **New Horiz** 1996 Nov; 4(4):483–92 (43 ref.)
Mapping reentry around atriotomy scars using double potentials. Chinitz LA, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1978–83
Successful weaning from cardiopulmonary bypass after cardiac surgery using inhaled nitric oxide. Bichel T, et al. **Paediatr Anaesth** 1997;7(4):335–9
Human factors and outcomes of cardiac surgery [editorial] de Leval MR. **Paediatr Anaesth** 1996;6(5):349–51
Midazolam following open heart surgery in children: haemodynamic effects of a loading dose [published erratum appears in Paediatr Anaesth 1996;6(6):448] Macnab AJ, et al. **Paediatr Anaesth** 1996;6(5):387–97
The use of the right atrial free wall for reconstruction of the outflow tract in a patient with Fallot's tetralogy: a case report. Hassouna A. **Panminerva Med** 1995 Sep;37(3):162–5
Factors influencing haemostasis and blood transfusion in cardiac surgery. Liu B, et al. **Perfusion** 1996 Mar; 11(2):131–43
Use of blood products in cardiac surgery. Renton MC, et al. **Perfusion** 1997 May;12(3):157–62
Extracorporeal circulation for port-access cardiac surgery. Toomasian JM, et al. **Perfusion** 1997 Mar;12(2):83–91 (20 ref.)
Analgesics prescribed and administered to intensive care cardiac surgery patients: does patient age make a difference? Lay TD, et al. **Prog Cardiovasc Nurs** 1996 Fall; 11(4):17–24
Strategies to evaluate quality clinical outcomes. Shinn JA. **Prog Cardiovasc Nurs** 1997 Winter;12(1):44–6 (2 ref.)
The stated and tacit impact of demographic and lifestyle factors on prioritization decisions for cardiac surgery. Kee

F, et al. **QJM** 1997 Feb;90(2):117–23

The Cardiothoracic Outreach Programme--a pilot project. Klein M, et al. **S Afr Med J** 1996 Dec;86(12):1533–5

On the regulation of monocyte tissue factor expression and activation of the coagulation cascade--cell studies and clinical studies on patients undergoing heart surgery and patients with unstable angina. Ernofsson M. **Scand Cardiovasc J** 1997;31(4):249–50

Ionized magnesium concentration during liver transplantation, resection of the liver and cardiac surgery. Külpmann WR, et al. **Scand J Clin Lab Invest Suppl** 1996; 224:235–43

Time course of oxidative stress during open-heart surgery. Starkopf J, et al. **Scand J Thorac Cardiovasc Surg** 1995; 29(4):181–6

Annual joint meeting of the Swiss Society of Cardiology and the Swiss Society of Thoracic and Cardiovascular Surgery. Lausanne, 17–19 April 1997. Abstracts. **Schweiz Med Wochenschr Suppl** 1997;85:3S–60S **(Eng, Fre, Ger)**

Autologous blood donation with recombinant human erythropoietin in cardiac surgery: the Japanese experience. Baron JF. **Semin Hematol** 1996 Apr;33(2 Suppl 2):64–7; discussion 68 (9 ref.)

Use of epoetin alfa in autologous blood donation programs for patients scheduled for elective cardiac surgery. Walpoth B, et al. **Semin Hematol** 1996 Apr;33(2 Suppl 2):75–6; discussion 77

"Ruling in" and "ruling out": two approaches to the micro-rationing of health care. Hughes D, et al. **Soc Sci Med** 1997 Mar;44(5):589–99

Corticosteroid and immune responses to cardiac surgery. Tinnikov AA, et al. **Steroids** 1996 Jul;61(7):411–5

The role of nitric oxide in cardiac surgery. Nonami Y. **Surg Today** 1997;27(7):583–92 (95 ref.)

Utility of intravascular ultrasound in peripheral interventions. White RA, et al. **Tex Heart Inst J** 1997;24(1):28–34

Delayed primary closure of deep sternal wound infections. Zacharias A, et al. **Tex Heart Inst J** 1996;23(3):211–6

German Society for Thoracic and Cardiovascular Surgery, Swiss Society for Thoracic and Cardiovascular Surgery, Austrian Society for Thoracic and Cardiovascular Surgery. Membership list 1995. **Thorac Cardiovasc Surg** 1996 Feb; 44 Suppl 1:4–38

25th annual meeting of the German Society for Thoracic and Cardiovascular Surgery, 2nd joint annual meeting of the German Society for Thoracic and Cardiovascular Surgery, Austrian Society for Thoracic and Cardiac Surgery, and the Swiss Society for Thoracic and Cardiovascular Surgery. Vienna, Austria, February 28–March 2, 1996. Abstracts. **Thorac Cardiovasc Surg** 1996 Feb;44 Suppl 1:54–219 **(Eng, Ger)**

Multiple cardiac procedures after heart transplantation: a case report. Hoffmeier A, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):216–8

Pericardial trauma and adhesions in relation to reoperative cardiac surgery. Nkere UU, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):338–46

The quality of autotransfused chest-drainage blood after cardiac surgery: a study of coagulation factors. Schulze HJ, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):183–7

Immunologic assessment of patients treated with bovine fibrin as a hemostatic agent. Carroll JF, et al. **Thromb Haemost** 1996 Dec;76(6):925–31

More effective suppression of hemostatic system activation in patients undergoing cardiac surgery by heparin dosing based on heparin blood concentrations rather than ACT. Despotis GJ, et al. **Thromb Haemost** 1996 Dec;76(6):902–8

Severe bleeding due to factor V inhibitor after repeated operations using fibrin sealant containing bovine thrombin [letter] Muntean W, et al. **Thromb Haemost** 1997 Jun; 77(6):1223

Transfusion-transmitted hepatitis G virus following open heart surgery [letter] Shimizu M, et al. **Transfusion** 1996 Oct;36(10):937

Successful sequential double lung transplantation and cardiac repair for aortopulmonary window: technical and functional advantages over heart-lung transplantation. Charpentier A, et al. **Transplant Proc** 1996 Oct;28(5):2878–9

Transmission of GB virus C by blood transfusions during heart surgery. Shimizu M, et al. **Vox Sang** 1997;72(2):76–8

Platelet alloimmunization after transfusion. A prospective study in 117 heart surgery patients. Taaning E, et al. **Vox Sang** 1997;72(4):238–41

[Progresses in cardiovascular surgery in China, 1996] Xiao M, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Dec; 76(12):902–3 (0 ref.) **(Chi)**

[Has prenatal diagnosis of transposition of great vessels changed its prognosis?] Lupoglazoff JM, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):667–72 (Eng. Abstr.) **(Fre)**

[Is hemofiltration following acute kidney failure in elderly cardiovascular surgery patients justified?] Grünenfelder J, et al. **Schweiz Med Wochenschr** 1997 Jan 18;127(3):53–9 (Eng. Abstr.) **(Ger)**

[German Society for Thoracic and Cardiovascular Surgery membership list] **Thorac Cardiovasc Surg** 1997 Feb;45(1 Suppl):7–39 **(Ger)**

[26th Annual meeting of the German Society for Thoracic and Cardiovascular Surgery. Dresden. February 5–8, 1997. Abstracts] **Thorac Cardiovasc Surg** 1997 Feb;45(1 Suppl):55–197 **(Ger)**

[Echocardiography versus cardiac catheterization for surgical indications in the era of DRG: cost-benefit analysis] Di Liso G, et al. **G Ital Cardiol** 1996 Sep; 26(9):1049–53 **(Ita)**

[Recovery evaluation in a pediatric heart surgery unit using the AP-DRG classification system (All Patient Diagnosis Related Groups)] Giuliano G, et al. **G Ital Cardiol** 1996 Oct;26(10):1157–74 (Eng. Abstr.) **(Ita)**

[Enoximone in weaning from mechanical circulation support in pediatric patients] Bevilacqua S, et al. **Minerva Anestesiol** 1997 Jan-Feb;63(1-2):9–16 (Eng. Abstr.) **(Ita)**

[Difficult intubation in paediatric cardiac surgery. Significance of age. Association with Down's syndrome] Bevilacqua S, et al. **Minerva Anestesiol** 1996 Jul-Aug; 62(7–8):259–64 (Eng. Abstr.) **(Ita)**

[A curative report of multiple organ dysfunction syndrome and disseminated intravascular coagulation due to methicillin-resistant Staphylococcus aureus caused mediastinitis after cardiac surgery] Gu K, et al. **Kyobu Geka** 1997 Feb;50(2):150–3 (Eng. Abstr.) **(Jpn)**

[Open heart surgery without homologous blood transfusion in elderly patients] Kanno S, et al. **Kyobu Geka** 1997 Jul; 50(8 Suppl):702–6 (Eng. Abstr.) **(Jpn)**

[Application of alpha-hANP for the management following open-heart surgery: report of two cases] Mohara J, et al. **Kyobu Geka** 1997 Jun;50(6):466–8 (Eng. Abstr.) **(Jpn)**

[Contribution of molecular biology to cardiovascular surgery] Sawa Y, et al. **Kyobu Geka** 1997 Jan;50(1):9–12 (11 ref.) **(Jpn)**

[Experience of carperitide (synthetic human-atrial natriuretic peptide) after cardiovascular surgery] Taniyasu N, et al. **Kyobu Geka** 1996 May;49(5):359–63 (Eng. Abstr.) **(Jpn)**

[Cardiac operation for aged patients (aged 75 years and over): results of surgical intervention] Wakita N, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):711–3 (Eng. Abstr.) **(Jpn)**

[The change of oxygen consumption and oxygen delivery in patients undergoing heart surgery during perioperative period] Kadoi Y, et al. **Masui** 1997 May;46(5):674–8 (Eng. Abstr.) **(Jpn)**

[Changes in gastric intramucosal pH and hepato-splanchnic oxygen extraction ratio after heart surgery] Kunimoto F, et al. **Masui** 1996 Jan;45(1):21–6 (Eng. Abstr.) **(Jpn)**

[Cardiac surgery using cardiopulmonary bypass in a patient with sickle-cell trait] Ohashi Y, et al. **Masui** 1996 Oct; 45(10):1269–71 (Eng. Abstr.) **(Jpn)**

[Anesthesia for pediatric open heart surgery without transfusion] Ohnishi Y, et al. **Masui** 1997 Feb;46(2):199–204 (Eng. Abstr.) **(Jpn)**

[Pit fall of aprotinin administration during open heart surgery] Irie H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1119–23 (Eng. Abstr.) **(Jpn)**

[Reduction of homologous blood in elective cardiac surgery with miscellaneous autologous blood transfusion--especially with short-term predonation method] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):891–8 (Eng. Abstr.) **(Jpn)**

[Aprotinin reduces homologous blood transfusions when pediatric cardiac surgery must be redone] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):1980–5 (Eng. Abstr.) **(Jpn)**

[Learning experience from the "death conference" (editorial)] Arai T. **Rinsho Kyobu Geka** 1989 Aug;9(4):327 **(Jpn)**

[Use of shape memory alloy in cardiac surgery] Matsumoto H, et al. **Rinsho Kyobu Geka** 1988 Feb;8(1):81–4 (Eng. Abstr.) **(Jpn)**

[Ultrasonic diagnosis and heart surgery (editorial)] Nakamura K. **Rinsho Kyobu Geka** 1989 Apr;9(2):115 **(Jpn)**

[Consideration of blood transfusion in cardiac surgery] Ninomiya K. **Rinsho Kyobu Geka** 1988 Feb;8(1):7–11 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Multiple organ failure following open heart surgery in adults] Orime Y, et al. **Rinsho Kyobu Geka** 1989 Jun; 9(3):246–51 (Eng. Abstr.) **(Jpn)**

[Mitral valve replacement following myomectomy for idiopathic hypertrophic subaortic stenosis] Shigenobu M, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):365–8 (Eng. Abstr.) **(Jpn)**

[The treatment of accompanied organ failure after thoracic and cardiovascular surgery with mechanical organ-supports] Tsukamoto M, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):472–7 (Eng. Abstr.) **(Jpn)**

[Involvement of pulmonary function in patients treated with rotated chest muscle flap surgery for the treatment of sternal wound complications after heart surgery] Blacher C, et al. **Arq Bras Cardiol** 1996 Oct;67(4):243–7 (Eng. Abstr.) **(Por)**

[Coronary angioplasty at a center without heart surgery. The experience of the 1st year] Carvalho H, et al. **Rev Port Cardiol** 1997 Feb;16(2):197–200 **(Por)**

[Brain metabolism in patients undergoing surgery under conditions of artificial blood circulation] Kukaeva EA, et al. **Anesteziol Reanimatol** 1997 Mar-Apr;(2):40–5 (85 ref.) **(Rus)**

[Catheterization of the superior bulb of the internal jugular vein and its identification based on blood gas analysis in heart surgery patients] Mierbekov EM, et al. **Anesteziol Reanimatol** 1995 Nov-Dec;(6):38–40 (Eng. Abstr.) **(Rus)**

[Fiber optics oximetry of blood in the upper bulb of the internal jugular vein in heart surgery] Mierbekov EM, et al. **Anesteziol Reanimatol** 1997 Jan-Feb;(1):35–8 (Eng. Abstr.) **(Rus)**

[Determination of the sensitivity reserve of implantable cardioverters to the R wave during cardiomyoplasty] Dubrovskiĭ IA, et al. **Biull Eksp Biol Med** 1997 Jul; 124(7):118–20 **(Rus)**

[Physiologic features of the cardiovascular and respiratory systems in patients undergoing heart surgery under artificial circulation] Shevchenko IuL. **Fiziol Cheloveka** 1997 Mar-Apr;23(2):100–6 **(Rus)**

[The characteristics of the anesthesiological support for surgical interventions in patients earlier operated on the heart] Polushin IuS, et al. **Vestn Khir Im I I Grek** 1997; 156(2):97–103 (Eng. Abstr.) **(Rus)**

[Epidural anesthesia in cardiac anesthesiology (a review of the literature)] Nemytin IuV, et al. **Voen Med Zh** 1997 Mar;318(3):34–40 (33 ref.) **(Rus)**

[Predictor indices of early extubation in mechanical ventilation in patients treated with heart surgery] Saldías F, et al. **Rev Med Chil** 1996 Aug;124(8):959–66 (Eng. Abstr.) **(Spa)**

[Heart surgery with reduced occurrence of infections. New routines and continuous registration are proposed] Arén C, et al. **Lakartidningen** 1997 Jun 4;94(23):2173–6 **(Swe)**

[Heart surgery in Sweden is sufficiently developed. Risk of expensive overuse] Arén C, et al. **Lakartidningen** 1996 Nov 6;93(45):3981–2, 3987 **(Swe)**

ADVERSE EFFECTS

Coronary artery involvement early and late after radiofrequency current application in young pigs. Paul T, et al. **Am Heart J** 1997 Apr;133(4):436–40

Gallstone formation after open cardiac surgery [letter; comment] Cetta F, et al. **Am J Gastroenterol** 1997 Jun; 92(6):1069–70. Comment on: Am J Gastroenterol 1996 Oct;91(10):2185–9.

Postoperative thrombotic thrombocytopenic purpura following cardiovascular surgeries. Chang JC, et al. **Am J Hematol** 1996 Sep;53(1):11–7

Atrial fibrillation: prospective role of calcium channel blockers in open heart surgery [letter; comment] Tofukuji M, et al. **Am J Med** 1997 May;102(5):503. Comment on: Am J Med 1996 Oct;101(4):413–21.

Fatal hepatic necrosis following cardiac surgery and enflurane anaesthesia [letter; comment] Schneider M. **Anaesth Intensive Care** 1996 Apr;24(2):289. Comment on: Anaesth Intensive Care 1995 Dec;23(6):755–6.

Aprotinin effects related to oxidative stress in cardiosurgery with mechanical cardiorespiratory support (CMCS). Broche VF, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:521–4

Endothelial cell injury in cardiovascular surgery: ischemia-reperfusion. Boyle EM Jr, et al. **Ann Thorac Surg** 1996 Dec;62(6):1868–75 (56 ref.)

Methylene blue administration in SIRS after cardiac operations [letter; comment] Evora PR, et al. **Ann Thorac Surg** 1997 Apr;63(4):1212–3. Comment on: Ann Thorac Surg 1996 Jun;61(6):1607–8. Comment on: Ann Thorac Surg 1996 Jun;61(6):1714–20.

Mediastinal bleeding after cardiopulmonary bypass in pediatric patients. Guay J, et al. **Ann Thorac Surg** 1996 Dec;62(6):1955–60 (30 ref.)

Treatment of excessive mediastinal bleeding after cardiopulmonary bypass. Hartstein G, et al. **Ann Thorac Surg** 1996 Dec;62(6):1951–4

Defining dysfunction: group means versus incidence analysis--a statement of consensus. Murkin JM, et al. **Ann Thorac Surg** 1997 Sep;64(3):904–5 (4 ref.)

Immunological status of patients subjected to cardiac surgery: serum levels of interleukin 6 and tumor necrosis factor alpha and the ability of peripheral blood mononuclear cells to proliferate and produce these cytokines in vitro. Wlaszczyk A, et al. **Arch Immunol Ther Exp (Warsz)** 1996; 44(4):225–34

Gastrointestinal complications following cardiac surgery. An analysis of 1477 cardiac surgery patients. Perugini RA, et al. **Arch Surg** 1997 Apr;132(4):352–7

Cardiopulmonary bypass and cell-saver technique in combined oncologic and cardiovascular surgery. Akchurin RS, et al. **Artif Organs** 1997 Jul;21(7):763–5

Successful treatment of mediastinitis after cardiovascular surgery using electrolyzed strong acid aqueous solution. Hayashi H, et al. **Artif Organs** 1997 Jan;21(1):39–42

Effect of nitric oxide on oxygenation and hemodynamics in infants after cardiac surgery. Sadao K, et al. **Artif Organs** 1997 Jan;21(1):14–6

Extracorporeal membrane oxygenation support for postcardiotomy cardiogenic shock. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1287–91

Mechanical circulatory support for post cardiotomy cardiogenic shock in infants. Ishino K, et al. **ASAIO J** 1996 Sep-Oct;42(5):M735–8

Determinants of clinical results of mechanical circulatory support for ventricular failure after cardiotomy. Kitamura M, et al. **ASAIO J** 1996 Sep-Oct;42(5):M729–32

Adult placenta: the ECMO experience in patients with a coronary artery bypass graft and post cardiotomy cardiogenic shock. Magovern GJ Jr. **ASAIO J** 1996 Jan-Feb;42(1):19–23

Hyperthermia after cardiac surgery. Abe K, et al.

Can J Anaesth 1997 Jun;44(6):662–5
Occipital alopecia after cardiac surgery [letter] Calla S, et al. **Can J Anaesth** 1996 Nov;43(11):1180–1
Anterior cervical myelopathy in the early postoperative period. Muñoz Corsini L, et al. **Can J Anaesth** 1997 Aug; 44(8):872–6
Obesity is not a risk factor for significant adverse outcomes after cardiac surgery. Moulton MJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II87–92
Fulminant mediastinitis due to Streptococcus pneumoniae following cardiac surgery: report of a case. Maroto LC, et al. **Clin Infect Dis** 1996 Mar;22(3):594–5
Relationship between leukocyte count and patient risk for excessive blood loss after cardiac surgery. Despotis GJ, et al. **Crit Care Med** 1997 Aug;25(8):1338–46
Gastrointestinal complications after cardiac surgery [see comments] Yilmaz AT, et al. **Eur J Cardiothorac Surg** 1996; 10(9):763–7. Comment in: Eur J Cardiothorac Surg 1997 May;11(5):1001.
Concerning the paper by Herczeg et al., entitled: 'Morphological damage to the central nervous system (CNS) following open heart surgery' (Forensic Sci. Int., 79 (1996) 103–111) [letter] Aragona F. **Forensic Sci Int** 1997 Jun 6;87(2):167–8
Early diagnosis of delirium after cardiac surgery. Koolhoven I, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6):448–51
Detection and prevention of myocardial damage during open heart surgery [editorial; comment] Birdi I, et al. **Heart** 1996 Sep;76(3):189–90. Comment on: Heart 1996 Sep;76(3):207–13. Comment on: Heart 1996 Sep;76(3):214–7.
Vulnerability of paediatric myocardium to cardiac surgery [see comments] Taggart DP, et al. **Heart** 1996 Sep; 76(3):214–7. Comment in: Heart 1996 Sep;76(3):189–90.
The incidence of gastrointestinal symptoms in cardiac surgery patients through six weeks after discharge. Grap MJ, et al. **Heart Lung** 1996 Nov–Dec;25(6):444–50
Hepatic dysfunction following cardiac surgery: determinants and consequences. Michalopoulos A, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):779–83
Localized right atrial tamponade after cardiac surgery [letter] Garcia-Rubira JC, et al. **Int J Cardiol** 1997 Jan 3;58(1):87–8
N-acetylcysteine pretreatment of cardiac surgery patients influences plasma neutrophil elastase and neutrophil influx in bronchoalveolar lavage fluid. De Backer WA, et al. **Intensive Care Med** 1996 Sep;22(9):900–8
Splanchnic hypoxia after cardiac surgery [editorial; comment] Gutierrez G. **Intensive Care Med** 1996 Jan; 22(1):1–2. Comment on: Intensive Care Med 1996 Jan;22(1):26–33.
Automated infusion of nitroglycerin to control arterial hypertension during cardiac surgery. Hoeksel SA, et al. **Intensive Care Med** 1996 Jul;22(7):688–93
Left atrial thrombus in a 10-month-old boy—successful thrombolysis with recombinant tissue-type plasminogen activator after open-heart surgery: review of the literature. Kehl HG, et al. **Intensive Care Med** 1996 Sep;22(9):968–71 (11 ref.)
Hyperamylasemia after cardiac surgery in infants and children. Tikanoja T, et al. **Intensive Care Med** 1996 Sep; 22(9):959–63
Postcardiac injury rheumatism. Mukhopadhyay P, et al. **J Assoc Physicians India** 1995 Jun;43(6):388–90
Pleural drainage after repair of tetralogy of Fallot. Vaynblat M, et al. **J Card Surg** 1997 Mar–Apr;12(2):71–6
Respiratory function after cardiac surgery. Johnson D, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):571–7
Avoiding neurological injury [letter] Kol S, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):684
Somatosensory evoked potential monitoring during cardiac surgery: an examination of brachial plexus dysfunction. Seal D, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):187–91
Enalaprilat decreases plasma endothelin and atrial natriuretic peptide levels and preload in patients with left ventricular dysfunction after cardiac surgery. Tohmo H, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):585–90
Evaluation of a wound scoring method for patients undergoing cardiac surgery. Hall JC, et al. **J Hosp Infect** 1996 Jun;33(2):139–44
Clinical implications of phrenic nerve injury after pediatric cardiac surgery. Tönz M, et al. **J Pediatr Surg** 1996 Sep; 31(9):1265–7
Pulmonary hypertension after operations for congenital heart disease: analysis of risk factors and management. Bando K, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1600–7; discussion 1607–9
Central venous thrombosis after cardiac operations in children. Petäjä J, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):883–9
Detection of stroke during cardiac operations with somatosensory evoked responses. Stecker MM, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):962–72
Cerebral embolization is reduced with use of the stab technique for aortic cannulation compared with the side-clamp technique. Trivedi U, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):215–6
Long-term outcome and quality of life of patients requiring multidisciplinary intensive care unit admission after cardiac operations. Trouillet JL, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):926–34
Pericardiectomy and coronary artery bypass grafting for constrictive pericarditis after heart surgery. Sugimoto T, et al. **Jpn Circ J** 1996 Mar;60(3):177–80
Estimating the risks of cardiac surgery [editorial; comment] Dobb GJ. **Med J Aust** 1997 Apr 21;166(8):397–8 (18 ref.) . Comment on: Med J Aust 1997 Apr 21;166(8):408–11.
Atrial arrhythmias during chronic follow-up of surgery for complex congenital heart disease. Kanter RJ, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 2):502–11 (31 ref.)
Estimate of the maximum absorption rate of microscopic arterial air emboli after entry into the arterial circulation during cardiac surgery. Dexter F, et al. **Perfusion** 1996 Nov;11(6):445–50
Acute renal failure in open heart surgery. Llopart T, et al. **Ren Fail** 1997 Mar;19(2):319–23
Hemoptysis from an emphysematous bulla developing after open-heart surgery: report of a case. Nakajima J, et al. **Surg Today** 1997;27(3):266–8
Heart surgery in patients aged eighty years and above: determinants of morbidity and mortality. Deiwick M, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):119–26
Triiodothyronine in cardiac surgery. Broderick TJ, et al. **Thyroid** 1997 Feb;7(1):133–7 (24 ref.)
Atrial anastomotic thrombus causes neurologic deficits in a lung transplant recipient. Stang MR, et al. **Transplantation** 1996 Sep 15;62(5):693–5
[Plication of the diaphragm—a method of surgical treatment of diaphragmatic paralysis in neonates and infants after heart surgery] Matějka T, et al. **Rozhl Chir** 1997 May; 76(5):250–3 (Eng. Abstr.) **(Cze)**
[Mortality characteristics of patients waiting for coronary arteriography after heart surgery—the significance of "the forgotten denominator" (letter)] Gerdes LU. **Ugeskr Laeger** 1997 Feb 24;159(9):1290–1 **(Dan)**
[Mediastinitis after cardiac surgery. A 10-year evaluation (1985–1995)] Valla J, et al. **Ann Cardiol Angeiol (Paris)** 1996 Jul-Sep;45(7):369–76 (Eng. Abstr.) **(Fre)**
[Alteration of myocardial viability and systemic ventricular dysfunction after Senning procedure] Labbé L, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):631–7 (30 ref.) (Eng. Abstr.) **(Fre)**
[Mediastinitis after sternotomy. Mortality and hospital length of stay. Groupe parisien détude des sternotomies] Lucet JC, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90(4):471–5 (Eng. Abstr.) **(Fre)**
[Left ventricular assistance by postoperative mechanical devices in neonates] Robin J, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):661–5 (Eng. Abstr.) **(Fre)**
[Heart surgery with cardiopulmonary bypass in patients on chronic dialysis treatment: our experience] Galli R, et al. **G Ital Cardiol** 1996 Sep;26(9):1025–30 (Eng. Abstr.) **(Ita)**
[Diaphragm paralysis following pediatric heart surgery. Review of 25 treated cases] Picardo S, et al. **Minerva Anestesiol** 1996 May;62(5):177–81 (Eng. Abstr.) **(Ita)**
[Significance of postoperative elevation of urinary ulinastatin after open heart surgery under cardiopulmonary bypass] Ueki M, et al. **Masui** 1997 Feb;46(2):173–6 (Eng. Abstr.) **(Jpn)**
[Cerebral complication during open heart surgery in relation to cerebral arterial stenosis documented by angiography] Uezu T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1685–90 (Eng. Abstr.) **(Jpn)**
[Heart transplantation as a life saving procedure after conventional heart surgery] Almdahl SM, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2436–8 (Eng. Abstr.) **(Nor)**
[Aspects of solution of the postoperative infection problem in heart surgery] Pkhakadze TIa, et al. **Antibiot Khimioter** 1997;42(4):28–33 (Eng. Abstr.) **(Rus)**
[Diaphragmatic paralysis in the postoperative period after heart surgery in children] Vázquez López P, et al. **An Esp Pediatr** 1996 Dec;45(6):591–6 (Eng. Abstr.) **(Spa)**
[Reperfusion arrhythmias in valvular patients undergoing extracorporeal surgery and pretreated with captopril] Ruiz-Ros JA, et al. **Rev Esp Cardiol** 1997 Jul;50(7):491–7 (Eng. Abstr.) **(Spa)**

ECONOMICS

Publications concerning costs of various cardiovascular procedures and drugs. Talley JD, et al. **Am J Cardiol** 1997 Jan 1;79(1):70–2
Effect of repair strategy on hospital cost for infants with tetralogy of Fallot. Ungerleider RM, et al. **Ann Surg** 1997 Jun;225(6):779–83; discussion 783–4
Cost-effective provision of cardiac services in a fixed-dollar environment. Cohen G, et al. **Ann Thorac Surg** 1996 Nov; 62(5 Suppl):S18–21; discussion S31–2
Reimbursement for cardiac procedures: past, present, and future. Levitsky S. **Ann Thorac Surg** 1996 Nov;62(5 Suppl):S14–7; discussion S31–2
Risk factors for higher cost in congenital heart operations. Ungerleider RM, et al. **Ann Thorac Surg** 1997 Jul; 64(1):44–8; discussion 49
Reduction in costs, blood products, and operating time in patients undergoing open heart surgery. Lazzara RR, et al. **Arch Surg** 1997 Aug;132(8):858–60; discussion 861
[What are the costs of pediatric cardiosurgery?] Di Liso G, et al. **G Ital Cardiol** 1997 May;27(5):484–8 (Eng. Abstr.) **(Ita)**

EDUCATION

Using a video conference to teach clinical clerks in a one-week cardiothoracic clerkship. Amiel GE, et al. **Am J Surg** 1997 Apr;173(4):330–2
Surgeon-echocardiographers: the way forward. Izzat MB, et al. **Int J Cardiol** 1996 Oct 25;56(3):209–10

HISTORY

The first successful closure of a laceration of the pericardium. Dupre M, et al. **Am Surg** 1997 Apr;63(4):372–4
Francisco Romero, the first heart surgeon. Aris A. **Ann Thorac Surg** 1997 Sep;64(3):870–1
Pioneering Alberta cardiac surgeons walked into uncharted territory 40 years ago. Cairney R. **Can Med Assoc J** 1997 Feb 15;156(4):549–51
The Texas Heart Institute Award for undergraduate writing in the history of cardiovascular medicine and surgery. Mohammed Nasier Khan 1996 winner. **Tex Heart Inst J** 1996;23(4):257
The relief of mitral stenosis. An historic step in cardiac surgery. Khan MN. **Tex Heart Inst J** 1996;23(4):258–65; discussion 265–6
[The first heart suturing was performed in 1896, not 1897 (letter)] László K. **Orv Hetil** 1996 Jul 28;137(30):1669–70 **(Hun)**
[After all, when was the first cardiac suturing performed? (letter)] Vincze K. **Orv Hetil** 1996 Oct 13;137(41):2285 **(Hun)**
[One hundred years of heart surgery. In memory of Guido Farina] Capo M. **G Ital Cardiol** 1997 Mar;27(3):297–9 **(Ita)**
[The history of cardiac surgery] Braile DM, et al. **Arq Bras Cardiol** 1996 Jun;66(6):329–37 **(Por)**
[100 years of heart surgery (editorial)] Aris A. **Rev Esp Cardiol** 1996 Sep;49(9):625–6 **(Spa)**
[1896–1996: a century of cardiac surgery. Ludwig Rehn and the first heart surgery] Zalaquett R. **Rev Med Chil** 1996 Oct;124(10):1281–4 (Eng. Abstr.) **(Spa)**

INSTRUMENTATION

Tricuspid valve repair with the Cosgrove-Edwards Annuloplasty System. McCarthy JF, et al. **Ann Thorac Surg** 1997 Jul;64(1):267–8
Modification in the Carpentier retractor [letter] Neelakandan B. **Ann Thorac Surg** 1997 Jan;63(1):293–4
Urokinase-coated flat drain for pediatric cardiac operations [letter] Sakakibara Y, et al. **Ann Thorac Surg** 1997 Feb; 63(2):603
Clinical evaluation of the centrifugal pump in open heart surgery: a comparative study of different pumps. Takarabe K, et al. **Artif Organs** 1997 Jul;21(7):760–2
Hand-held, dynamic indentation system for measuring myocardial transverse stiffness. Blair DM, et al. **Biomed Instrum Technol** 1996 Nov–Dec;30(6):517–25
The de-airing clamp in cardiac surgery. Bugge M, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):189–90
Cylindrical ultrasonic transducers for cardiac catheter ablation. Hynynen K, et al. **IEEE Trans Biomed Eng** 1997 Feb;44(2):144–51
Low extracorporeal priming volumes for infants: a benefit? De Somer F, et al. **Perfusion** 1996 Nov;11(6):455–60
Safety: a manufacturer's perspective. Wierenga EJ. **Perfusion** 1997 Jul;12(4):229–31

MANPOWER

[Cardiac surgery in Quebec: Do we have too many centers? Too many surgeons? Too many patients?] Carrier M, et al. **Can J Cardiol** 1997 Feb;13(2):136–40 (Eng. Abstr.) **(Fre)**

METHODS

Technique to repair tetralogy of Fallot with absent pulmonary valve. Conte S, et al. **Ann Thorac Surg** 1997 May;63(5):1489–91
Myocardial protection and cardiopulmonary bypass in neonates and infants. del Nido PJ. **Ann Thorac Surg** 1997 Sep;64(3):878–9
"Heartflip" technique for exposing the circumflex territory [letter; comment] Ganjoo AK. **Ann Thorac Surg** 1997 Jul; 64(1):288–9. Comment on: Ann Thorac Surg 1996 Mar;61(3):1019–20.
Ross-Konno procedure with interrupted aortic arch repair in a premature neonate. Hirooka K, et al. **Ann Thorac Surg** 1997 Jul;64(1):249–51
Commissurotomy and bileaflet pericardial augmentation-resuspension for bicuspid aortic valve stenosis. Kadri MA, et al. **Ann Thorac Surg** 1997 Feb; 63(2):548–50
Fast-track cardiac surgery in a Department of Veterans Affairs patient population. London MJ, et al. **Ann Thorac Surg** 1997 Jul;64(1):134–41
Punch pulmonary valvectomy: another alternative to treat critical pulmonary stenosis. Milo S, et al. **Ann Thorac Surg** 1997 Jul;64(1):261–4
Modified biatrial approach for the surgical excision of left atrial myxomas. St Rammos K. **Ann Thorac Surg** 1997 Jul; 64(1):274–5
Warm heart operation in a patient with myotonic dystrophy. Sakai T, et al. **Ann Thorac Surg** 1996 Oct;62(4):1203–5
KISS approach to cardiac surgery [letter; comment] Victor

S, et al. **Ann Thorac Surg** 1996 Dec;62(6):1890–1. Comment on: Ann Thorac Surg 1996 Feb;61(2):499–510. Comment on: Ann Thorac Surg 1996 Feb;61(2 Suppl):S26–9; discussion S33–4.

It is right to publicise recent advances in the media [letter] Angelini GD, et al. **BMJ** 1997 Sep 13;315(7109):679

Method for re-sheathing Palmaz-Schatz coronary stent delivery system after intentional or accidental sheath withdrawal. Cox S, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):301–2

Wisdom in video-assisted cardiac surgery: what can or should be done? [letter; comment] Izzat MB, et al. **Chest** 1997 Jul;112(1):298–300. Comment on: Chest 1996 Dec;110(6):1603–7.

Video-assisted cardiac surgery. Preliminary experience in reoperative mitral valve surgery [see comments] Tsai FC, et al. **Chest** 1996 Dec;110(6):1603–7. Comment in: Chest 1997 Jul;112(1):298–300.

Radiofrequency catheter ablation of the atria eliminates pacing-induced sustained atrial fibrillation and reduces connexin 43 in dogs. Elvan A, et al. **Circulation** 1997 Sep 2;96(5):1675–85

Transcatheter subendocardial infusion. A novel technique for mapping and ablation of ventricular myocardium. Goette A, et al. **Circulation** 1996 Sep 15;94(6):1449–55

Early release after cardiac surgery. Keon WJ, et al. **Coron Artery Dis** 1997 Mar–Apr;8(3–4):235–41 (24 ref.)

Mitral, tricuspid, and aortic valve repair or reconstruction. Hammond GL, et al. **Curr Opin Cardiol** 1997 Mar; 12(2):100–7 (47 ref.)

Intrapericardial paraganglioma. Casanova J, et al. **Eur J Cardiothorac Surg** 1996;10(4):287–9

Anomalous origin of left coronary artery. Evolution of surgical treatment. Moraes F, et al. **Eur J Cardiothorac Surg** 1996;10(8):603–8

Accelerated aortic allograft fibrocalcification after right ventricular outflow tract reconstruction in pediatric patients: report of two cases. Santini F, et al. **Eur J Cardiothorac Surg** 1996;10(4):290–3

Left ventricular aneurysmectomy; comparison between two techniques; early and late results. Sinatra R, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):291–7

Closure of muscular ventricular septal defects through a left ventriculotomy. Wollenek G, et al. **Eur J Cardiothorac Surg** 1996;10(8):595–8

Myocardial protection for cardiac surgery. Myers ML, et al. **EXS** 1996;76:345–64 (76 ref.)

Is quantitative angiography sufficient to guide stent implantation? A comparison with three-dimensional reconstruction of intracoronary ultrasound images. Prati F, et al. **G Ital Cardiol** 1997 Apr;27(4):328–36

Early and intermediate term results of Carpentier's repair for Ebstein's anomaly. Senni M, et al. **G Ital Cardiol** 1996 Dec;26(12):1415–20

Neonatal correction of interrupted aortic arch, aortopulmonary window and ascending aortic origin of right pulmonary artery. Sharma R, et al. **Indian Heart J** 1996 Nov–Dec;48(6):717–20

Minimally invasive cardiac surgery, a fleeting fancy or a lasting prospect? [editorial] Izzat MB, et al. **Int J Cardiol** 1997 May 23;59(3):223–5

Surgical experience with total correction of tetralogy of Fallot in infancy. Kaushal SK, et al. **Int J Cardiol** 1996 Sep;56(1):35–40

What's new in cardiac surgery. Hammon JW Jr. **J Am Coll Surg** 1997 Feb;184(2):105–8

Open heart operations without transfusion using a multimodality blood conservation strategy in 50 Jehovah's Witness patients: implications for a "bloodless" surgical technique. Rosengart TK, et al. **J Am Coll Surg** 1997 Jun; 184(6):618–29

Clinical implications of short-axis aortopulmonary rotation on juxtacommissural origin of the coronary artery in transposition of the great arteries and surgical strategy. Chiu IS, et al. **J Card Surg** 1997 Jan–Feb;12(1):23–31

Cavo atriopulmonary anastomosis via a nonprosthetic medial tunnel. Kreutzer C, et al. **J Card Surg** 1997 Jan–Feb; 12(1):37–40

Inverted T-shaped biatral incision for large left atrial myxoma. Morishita K, et al. **J Card Surg** 1997 Mar–Apr; 12(2):112–5

The use of transesophageal echocardiography to guide sternal division for cardiac operations via mini-sternotomy. Sardari FF, et al. **J Card Surg** 1997 Mar–Apr;12(2):67–70

Coarctation in teenagers: two new surgical modifications. Sarsam MA. **J Card Surg** 1997 Jan–Feb;12(1):41–5

Anatomy of the aortic root with particular emphasis on options for its surgical enlargement. Anderson RH, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S249–57 (20 ref.)

Straddling endoventricular pericardial patch in mitral valve repair with the sliding leaflet technique. Arena V, et al. **J Heart Valve Dis** 1996 Sep;5(5):567–9

Aortic root replacement for annuloaortic ectasia in Shprintzen-Goldberg syndrome: a case report. Fukunaga S, et al. **J Heart Valve Dis** 1997 Mar;6(2):181–3 (11 ref.)

Anatomic and physiologic bases for the Ross procedure. Gonzalez-Lavin L, et al. **J Heart Valve Dis** 1996 Jul; 5(4):383–90; discussion 401–3 (87 ref.)

Can the maze procedure be combined safely with mitral valve repair? Izumoto H, et al. **J Heart Valve Dis** 1997 Mar; 6(2):166–70

A systematic technical approach to the Ross operation. Joyce F, et al. **J Heart Valve Dis** 1996 Jul;5(4):391–401; discussion 401–3

Ross operation and right ventricular outflow tract reconstruction with stentless xenografts. Konertz W, et al. **J Heart Valve Dis** 1996 Jul;5(4):418–20

Autograft failure after the Ross operation in a rheumatic population: pre- and postoperative echocardiographic observations. Pieters FA, et al. **J Heart Valve Dis** 1996 Jul;5(4):404–8; discussion 408–9

Current techniques to reduce blood loss after the Ross procedure. Santini F, et al. **J Heart Valve Dis** 1997 Jul; 6(4):343–6

The use of larger size pulmonary homografts for the Ross operation in children. Sardari F, et al. **J Heart Valve Dis** 1996 Jul;5(4):410–3

Sarcoplasmic reticulum calcium uptake in human myocardium subjected to ischemia and reperfusion during cardiac surgery. Zucchi R, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1693–701

Extracardiac adjustment of mitral chordae replacement. Otaki M, et al. **J Surg Res** 1996 Jul 15;64(1):102–6

Surgical treatment of subaortic stenosis after biventricular repair of double-outlet right ventricle. Belli E, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1570–78; discussion 1578–80

Is a high-risk biventricular repair always preferable to conversion to a single ventricle repair? Delius RE, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1561–8; discussion 1568–9

Mini-T sternotomy for cardiac operations [letter] Moreno-Cabral RJ. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):810–1

Delayed sternal closure after cardiac operations in a pediatric population. Tabbutt S, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):886–93

Hypertrophic obstructive cardiomyopathy in pediatric patients: results of surgical treatment. Theodoro DA, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1589–97; discussion 1597–9

Recovery of atrial function after combined treatment with surgical repair for organic heart disease and maze procedure for atrial fibrillation. Ueshima K, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):214–5

Minimally invasive cardiac surgery. Heart surgery for the 21st century. Elbeery JR, et al. **N C Med J** 1997 Sep–Oct; 58(5):374–7

Warm cardiac surgery with continuous blood cardioplegia using a potassium infusion pump. Fried DW, et al. **Perfusion** 1997 Mar;12(1):21–6

Ivemark syndrome. A case with successful surgical intervention. Tkebuchava T, et al. **Scand Cardiovasc J** 1997; 31(3):173–5 (8 ref.)

Autologous blood donation with recombinant human erythropoietin in cardiac surgery: the Japanese experience. Baron JF. **Semin Hematol** 1997 Apr;33(2 Suppl 2):64–7; discussion 68

Use of epoetin alfa in autologous blood donation programs for patients scheduled for elective cardiac surgery. Walpoth B, et al. **Semin Hematol** 1997 Apr;33(2 Suppl 2):75–6; discussion 77

Thoracoscopic implantation of a pacemaker lead: experimental study. Ohtsuka T, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):99–102

Endogenous myocardial protection. Menasché P. **Therapie** 1996 Jul–Aug;51(4):367–8

Cardiac surgery in Germany during 1996. A report by the German Society for Thoracic and Cardiovascular Surgery. Kalmár P, et al. **Thorac Cardiovasc Surg** 1997 Jun; 45(3):134–7

Beating heart implantation of a wearable NOVACOR left-ventricular assist device. Scheld HH, et al. **Thorac Cardiovasc Surg** 1996 Apr;44(2):62–6

[Endoscopic heart surgery] Hasenkam JM, et al. **Ugeskr Laeger** 1997 Feb 17;159(8):1116 **(Dan)**

[Double discordances with ventricular septal defect and pulmonary obstruction. A study of 72 cases] Acar P, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):625–9 (Eng. Abstr.) **(Fre)**

[Congenital coronary-cardiac fistula in children. Effects of surgical occlusion and percutaneous embolization] Aggoun Y, et al. **Arch Mal Coeur Vaiss** 1997 May;90(5):605–9 (Eng. Abstr.) **(Fre)**

[Techniques of correction of partial right abnormal pulmonary venous return associated with atrial septal defect] Dervanian P, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):857–63 (29 ref.) (Eng. Abstr.) **(Fre)**

[Current techniques in heart surgery] Kipfer B, et al. **Schweiz Rundsch Med Prax** 1997 Apr 23;86(17):700–3 (Eng. Abstr.) **(Ger)**

[Importance of current methods in interventional cardiology and heart surgery (editorial)] Meier B. **Schweiz Rundsch Med Prax** 1997 Apr 16;86(16):647–8 **(Ger)**

[Heart surgery with cardiopulmonary bypass in patients on chronic dialysis treatment: our experience] Galli R, et al. **G Ital Cardiol** 1996 Sep;26(9):1025–30 (Eng. Abstr.) **(Ita)**

[History of naming about Damus-Kaye-Stansel operation and Konno operation] Muraoka R. **Kyobu Geka** 1997 Mar; 50(3):188–9 (Eng. Abstr.) **(Jpn)**

[Use of skeletal muscle in cardiac assist] Pęczalski K, et al. **Pol Tyg Lek** 1996 Mar;51(10–13):166–9 (23 ref.) **(Pol)**

[Initial experience with partial left ventriculectomy as a treatment for end-stage heart failure (see comments)] Bombonato R, et al. **Arq Bras Cardiol** 1996 Apr; 66(4):189–92 (Eng. Abstr.). Comment in: Arq Bras Cardiol 1996 Apr;66(4):223–4. **(Por)**

[Effect of various perfusion temperature regimens in heart surgery with extracorporeal circulation on glutathione levels and activity of enzymes of glutathione metabolism in erythrocytes] Korotkina RN, et al. **Patol Fiziol Eksp Ter** 1997 Jan–Mar;(1):8–10 (Eng. Abstr.) **(Rus)**

[The use of endolymphatic antibacterial therapy to prevent suppurative complications after heart operations under artificial blood circulation] Spitsyn PI, et al. **Vestn Khir Im I I Grek** 1996;(1):75–6 (Eng. Abstr.) **(Rus)**

[Submammary skin incision for longitudinal medial sternotomy] Ramírez Marroquín S, et al. **Arch Inst Cardiol Mex** 1996 Sep–Oct;66(5):434–40 (Eng. Abstr.) **(Spa)**

[Gas exchange changes in the postoperative period of heart surgery] Quadrelli SA, et al. **Medicina (B Aires)** 1995; 55(4):300–6 (Eng. Abstr.) **(Spa)**

[The stent in cardiologic interventions. Introduction] García Fernández E. **Rev Esp Cardiol** 1997;50 Suppl 2:1–2 **(Spa)**

[Complex cases in heart surgery] Olearchyk AS. **Klin Khir** 1994;(12):38–47 (Eng. Abstr.) **(Ukr)**

MORTALITY

Operative mortality and frequency of coexistent anomalies in interruption of the aortic arch. Powell CB, et al. **Am J Cardiol** 1997 Apr 15;79(8):1147–8

Risk stratification for open heart operations: comparison of centers regardless of the influence of the surgical team. Pinna-Pintor P, et al. **Ann Thorac Surg** 1997 Aug; 64(2):410–3

The autopsy: still important in cardiac surgery. Zehr KJ, et al. **Ann Thorac Surg** 1997 Aug;64(2):380–3

Long-term survival and functional status in the elderly after cardiac surgery. Boucher JM, et al. **Can J Cardiol** 1997 Jul;13(7):646–52

Impact of triiodothyronine on the survival of high-risk patients undergoing open heart surgery. Novitzky D, et al. **Cardiology** 1996 Nov–Dec;87(6):509–15

Complex issues [editorial] Martz EW. **Del Med J** 1997 Jun; 69(6):303

Perioperative risk factors affecting hospital stay and hospital costs in open heart surgery for patients > or = 65 years old. Fernandez J, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1133–40

Assessing open heart surgery mortality in Catalonia (Spain) through a predictive risk model. Pons JM, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):415–23

Sternal wound complications—incidence, microbiology and risk factors. Ståhle E, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1146–53

Prospective study of the value of necropsy examination in early death after cardiac surgery. Lee AH, et al. **Heart** 1997 Jul;78(1):34–8

Initial postoperative serum lactate levels predict survival in children after open heart surgery. Siegel LB, et al. **Intensive Care Med** 1996 Dec;22(12):1418–23

Gastric intramucosal pH: a predictor of survival in cardiac surgery patients with low cardiac output? Böhrer H, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):184–6

Have quality improvement efforts decreased mortality rates following cardiac surgery? [letter; comment] Huff ED. **JAMA** 1997 May 21;277(19):1518–9. Comment on: JAMA 1996 Mar 20;275(11):877–8. Comment on: JAMA 1997 Feb 5;277(5):379–82. Comment on: JAMA 1997 Feb 5;277(5):419–20.

Use of a probabilistic neural network to estimate the risk of mortality after cardiac surgery. Orr RK. **Med Decis Making** 1997 Apr–Jun;17(2):178–85

Determinants of early and late mortality in patients with end-stage renal disease undergoing cardiac surgery. Ashraf SS, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):187–93

Heart surgery in patients aged eighty years and above: determinants of morbidity and mortality. Deiwick M, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):119–26

[Human factors and heart surgery: a Cartesian dream] de Leval MR. **Bull Mem Acad R Med Belg** 1996; 151(7–9):359–66; discussion 366–7 (Eng. Abstr.) **(Fre)**

[Progress of heart surgery for infants] Shiroya h. **Rinsho Kyobu Geka** 1988 Apr;8(2):109 **(Jpn)**

NURSING

Comparison of methods of measuring pulmonary artery pressure. Lundstedt JL. **Am J Crit Care** 1997 Jul; 6(4):324–32

When parents participate in critical pathway management following pediatric cardiovascular surgery. Turley KM, et al. **MCN Am J Matern Child Nurs** 1996 Sep–Oct; 21(5):229–34

ORGANIZATION & ADMINISTRATION

Effectiveness of a program of early hospital discharge of cardiac surgery patients [see comments] [published erratum appears in J Cardiovasc Nurs 1997 Apr;11(3):1] Riegel B, et al. **J Cardiovasc Nurs** 1996 Oct;11(1):63–75. Comment

in: J Cardiovasc Nurs 1996 Oct;11(1):v–vii.
[Cardiology and heart surgery in the dawn of the 21st century. The viewpoint of policy makers] Delamuraz JP. **Rev Med Suisse Romande** 1997 Aug;117(8):623–5 **(Fre)**
[The organization of the donation of autologous blood and its components in cardiac surgery] Shevchenko IuL, et al. **Vestn Khir Im I I Grek** 1996;155(5):71–4 (Eng. Abstr.) **(Rus)**

PSYCHOLOGY

Effect of a music intervention on noise annoyance, heart rate, and blood pressure in cardiac surgery patients. Byers JF, et al. **Am J Crit Care** 1997 May;6(3):183–91
Preoperative ICU tours: are they helpful? Lynn–McHale D, et al. **Am J Crit Care** 1997 Mar;6(2):106–15
Turning points of recovery from cardiac surgery during the intensive care unit transition. Shih FJ, et al. **Heart Lung** 1997 Mar–Apr;26(2):99–108
Perception of self in the intensive care unit after cardiac surgery among adult Taiwanese and American–Chinese patients. Shih FJ. **Int J Nurs Stud** 1997 Feb;34(1):17–26
Social support, depression, and activities of daily living in older heart surgery patients. Oxman TE, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 Jan;52(1):P1–14
Neuropsychological impairment in candidates for cardiac surgery. Vingerhoets G, et al. **J Int Neuropsychol Soc** 1997 Sep;3(5):480–4
Psychiatric complications of cardiac surgery postoperative delirium syndrome. Gokgoz L, et al. **Scand Cardiovasc J** 1997;31(4):217–22

REHABILITATION

Facilitating the recovery of open heart surgery patients through quality improvement efforts and CareMAP implementation. Griffith D, et al. **Am J Crit Care** 1996 Sep;5(5):346–52
Patients' perceptions of their education needs in the first six weeks following discharge after cardiac surgery. Goodman H. **J Adv Nurs** 1997 Jun;25(6):1241–51
Functional outcomes of patients on a rehabilitation unit after open heart surgery. Kong KH, et al. **J Cardiopulm Rehabil** 1996 Nov–Dec;16(6):413–8
Health patterns of cardiac surgery clients using home health care nursing services. Redeker NS, et al. **Public Health Nurs** 1996 Dec;13(6):394–403
[Sanatorium rehabilitation of cardiosurgical patients] Kosov VA, et al. **Klin Med (Mosk)** 1997;75(8):40–4 (Eng. Abstr.) **(Rus)**

STANDARDS

Guidelines and cardiac anaesthetists. Not in my back yard. Alston RP. **Anaesthesia** 1997 Apr;52(4):328–31
Recent experience of integrated myocardial management: the newest strategy for myocardial protection. Okamoto F, et al. **Artif Organs** 1997 Jul;21(7):798–802
Coronary artery bypass mortality rates in Ontario. A Canadian approach to quality assurance in cardiac surgery. Steering Committee of the Provincial Adult Cardiac Care Network of Ontario. Tu JV, et al. **Circulation** 1996 Nov 15;94(10):2429–33

STATISTICS & NUMERICAL DATA

Cardiac operations in patients 80 years old and older. Akins CW, et al. **Ann Thorac Surg** 1997 Sep;64(3):606–14; discussion 614–5
Data quality review program: the Society of Thoracic Surgeons Adult Cardiac National Database. Grover FL, et al. **Ann Thorac Surg** 1996 Oct;62(4):1229–31
Calculating risk and outcome: the Veterans Affairs database. Grover FL, et al. **Ann Thorac Surg** 1996 Nov;62(5 Suppl):S6–11; discussion S31–2
Outcomes analysis in cardiac surgery. Groom RC, et al. **Perfusion** 1997 Jul;12(4):257–61
Preoperative versus postoperative extracorporeal life support in neonatal cardiac patients. McKay VJ, et al. **Perfusion** 1997 May;12(3):179–86 (16 ref.)
Women's short–term recovery from cardiac surgery. King KM, et al. **Prog Cardiovasc Nurs** 1996 Spring;11(2):5–15
Cardiac surgery in Germany during 1996. A report by the German Society for Thoracic and Cardiovascular Surgery. Kalmár P, et al. **Thorac Cardiovasc Surg** 1997 Jun; 45(3):134–7
[Quality assurance in heart surgery: 8 years experience with a "feedback–control" system in Heidelberg] Vahl CF, et al. **Herz** 1996 Dec;21(6):371–82 (Eng. Abstr.) **(Ger)**
[Cardiac interventions in Switzerland in 1994] Goerre S. **Schweiz Rundsch Med Prax** 1996 Sep 3;85(36):1071–80 (Eng. Abstr.) **(Ger)**
[Cardiac interventions in Switzerland] Goerre S. **Schweiz Rundsch Med Prax** 1997 Mar 11;86(11):425–31 (Eng. Abstr.) **(Ger)**
[Classification of congenital heart diseases and surgical interventions in pediatric cardiology for the standardization of hospitalization records] Giuliano G, et al. **G Ital Cardiol** 1997 Jul;27(7):706–19 (Eng. Abstr.) **(Ita)**
[Cardiovascular surgery in Spain in 1994. Registry of Interventions of the Spanish Society of Cardiovascular Surgery (SECCV)] Llorens R, et al. **Rev Esp Cardiol** 1996 Sep;49(9):627–37 (Eng. Abstr.) **(Spa)**

TRENDS

Recent advances. Cardiac surgery. Treasure T. **BMJ** 1997 Jul 12;315(7100):104–7
Skiing on the avalanche. Lerut T. **Eur J Cardiothorac Surg** 1997 May;11(5):803–9
Implications of United States healthcare reform for European cardiothoracic surgery [editorial] Skinner DB. **Eur J Cardiothorac Surg** 1997 Apr;11(4):599–603
Cardiothoracic surgery. Matloff JM, et al. **JAMA** 1997 Jun 18;277(23):1843–5
Minimally invasive cardiac surgery. Heart surgery for the 21st century. Elbeery JR, et al. **N C Med J** 1997 Sep–Oct; 58(5):374–7
Background history of cardiac surgery in Erlangen/West Germany. von der Emde J. **Rinsho Kyobu Geka** 1989 Apr; 9(2):209–12
[Quality assurance in heart surgery in Germany. Development, current status and outlook] Kalmár P, et al. **Herz** 1996 Dec;21(6):364–70 (Eng. Abstr.) **(Ger)**
[Quality assurance in heart surgery. General and personal concepts] Nollert G, et al. **Herz** 1996 Dec;21(6):383–8 (Eng. Abstr.) **(Ger)**
[In search for new development from the age of practice––lessons from reoperations] Furuse A. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):303–11 **(Jpn)**
[Future perspectives in coronary stenting] Hernández Antolín RA, et al. **Rev Esp Cardiol** 1997;50 Suppl 2:95–106 (132 ref.) (Eng. Abstr.) **(Spa)**

UTILIZATION

Cardiac surgery in Germany during 1995. A report by the German Society for Thoracic and Cardiovascular Surgery. Kalmár P, et al. **Thorac Cardiovasc Surg** 1996 Jun; 44(3):161–4
[Cardiac surgery in Quebec: Do we have too many centers? Too many surgeons? Too many patients?] Carrier M, et al. **Can J Cardiol** 1997 Feb;13(2):136–40 (Eng. Abstr.) **(Fre)**
[Heart surgery in Austria 1995] Unger F. **Herz** 1996 Dec; 21(6):397–404 (Eng. Abstr.) **(Ger)**

VETERINARY

Transcatheter occlusion of a patent ductus arteriosus in a Newfoundland puppy using the Gianturco–Grifka vascular occlusion device. Grifka RG, et al. **J Vet Intern Med** 1996 Jan–Feb;10(1):42–4

HEART TRANSPLANTATION

Intravenous vitamin K1 prior to orthotopic heart transplantation: effects in vivo and in vitro. Barnette RE, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):78–83
Long–term follow–up of heart transplant patients. Baroud I, et al. **Acta Cardiol** 1996;51(4):315–25
Determinants of right ventricular failure after heart transplantation. Leeman M, et al. **Acta Cardiol** 1996; 51(5):441–9
Successful management of acute aortic dissection in a heart transplant recipient. Defraigne JO, et al. **Acta Chir Belg** 1997 Jun;97(3):141–4 (15 ref.)
Effect of oral terbinafine treatment on cyclosporin pharmacokinetics in organ transplant recipients with dermatophyte nail infection. Jensen P, et al. **Acta Derm Venereol** 1996 Jul;76(4):280–1
Malignant plasmacytoma appearing as invasive paranasal sinus disease after cardiac transplantation. Kramer GS, et al. **AJNR Am J Neuroradiol** 1996 Sep;17(8):1582–4
Primary lymphoma of the cervix in a heart transplant patient. Abbas MA, et al. **AJR Am J Roentgenol** 1996 Nov; 167(5):1136–8
Clinical status of patients removed from a transplant waiting list rivals that of transplant recipients at significant cost savings. Levine TB, et al. **Am Heart J** 1996 Dec; 132(6):1189–94
Changes in skeletal muscle morphology and biochemistry after cardiac transplantation. Bussières LM, et al. **Am J Cardiol** 1997 Mar 1;79(5):630–4
Role of maximal oxygen consumption in establishment of heart transplant candidacy for heart failure patients with intermediate exercise tolerance. Kao W, et al. **Am J Cardiol** 1997 Apr 15;79(8):1124–7
Results of heart transplantation in patients with preexisting malignancies. Koerner MM, et al. **Am J Cardiol** 1997 Apr 1;79(7):988–91
Management of cardiac allograft vasculopathy by transmyocardial laser revascularization. Malik FS, et al. **Am J Cardiol** 1997 Jul 15;80(2):224–5
Assessment of the appropriateness of the decision of heart transplantation in idiopathic–dilated cardiomyopathy. Martí V, et al. **Am J Cardiol** 1997 Sep 15;80(6):746–50
Long–term cardiopulmonary exercise performance after heart transplantation. Osada N, et al. **Am J Cardiol** 1997 Feb 15;79(4):451–6
Effectiveness of cardiac transplantation for primary (AL) cardiac amyloidosis. Pelosi F Jr, et al. **Am J Cardiol** 1997 Feb 15;79(4):532–5
Impact of plaque burden on compensatory enlargement of coronary arteries in cardiac allograft vasculopathy. Working Group on Cardiac Allograft Vasculopathy. Pethig K, et al. **Am J Cardiol** 1997 Jan 1;79(1):89–92
Cardiac transplantation in adults with small hearts. Waller TA, et al. **Am J Cardiol** 1997 Aug 15;80(4):530–2
Bradycardia: a late complication following cardiac transplantation. Weinfeld MS, et al. **Am J Cardiol** 1996 Oct 15;78(8):969–71
Cytomegalovirus cecal ulcer in a patient awaiting cardiac transplantation. Pfau P, et al. **Am J Gastroenterol** 1996 Nov; 91(11):2435–6
Recipient selection and management before cardiac transplantation. Frantz RP, et al. **Am J Med Sci** 1997 Sep; 314(3):139–52
The cardiac transplant donor: identification, assessment, and management. Van Bakel AB. **Am J Med Sci** 1997 Sep; 314(3):153–63
Central hemodynamic changes associated with pregnancy in a long–term cardiac transplant recipient. Kim KM, et al. **Am J Obstet Gynecol** 1996 May;174(5):1651–3
Parasympathetic denervation supersensitivity of the transplanted human ventricle in vivo. Koglin J, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H435–9
Influence of graft innervation on neovascularization of embryonic heart tissue grafted in oculo. Torry RJ, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H33–7
Ten–year results of the Oregon program with 295 consecutive heart transplants in the Pacific Northwest. Cobanoglu A, et al. **Am J Surg** 1997 May;173(5):426–30
Epstein–Barr virus (EBV)–associated smooth–muscle tumor arising in a post–transplant patient treated successfully for two PT–EBV–associated large–cell lymphomas. Case report. Kingma DW, et al. **Am J Surg Pathol** 1996 Dec; 20(12):1511–9
The safety of dantrolene in a patient with a severe cardiomyopathy requiring a heart transplant [letter] Koehntop DE, et al. **Anesth Analg** 1997 Jul;85(1):229–30
Laparoscopic cholecystectomy in a patient with a transplanted heart [letter; comment] Levecque JP, et al. **Anesthesiology** 1997 Jun;86(6):1425–7. Comment on: Anesthesiology 1996 Oct;85(4):929–33.
Pretransplant malignancy in candidates and posttransplant malignancy in recipients of cardiac transplantation. Oechslin E, et al. **Ann Oncol** 1996 Dec;7(10):1059–63
The use of HMG–CoA reductase inhibitors to prevent accelerated graft atherosclerosis in heart transplant patients. Southworth MR, et al. **Ann Pharmacother** 1997 Apr; 31(4):489–91 (32 ref.)
Orthopaedic referrals from a cardiothoracic transplant population. Johnson DS, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):134–7
The incidence, morbidity, and mortality of surgical procedures after orthotopic heart transplantation. Bhatia DS, et al. **Ann Surg** 1997 Jun;225(6):686–93; discussion 693–4
ECMO and inhaled nitric oxide for cardiopulmonary failure after heart retransplantation. Barzaghi N, et al. **Ann Thorac Surg** 1997 Feb;63(2):533–5
Heart transplantation in patients 65 years of age and older: a comparative analysis of 40 patients. Blanche C, et al. **Ann Thorac Surg** 1996 Nov;62(5):1442–6; discussion 1447
Heart transplantation in patients 70 years of age and older: initial experience [see comments] Blanche C, et al. **Ann Thorac Surg** 1996 Dec;62(6):1731–6. Comment in: Ann Thorac Surg 1996 Dec;62(6):1578–9. Comment in: Ann Thorac Surg 1997 Jul;64(1):289–90.
Perioperative risk and long–term results of heart transplantation after previous cardiac operations. Carrel T, et al. **Ann Thorac Surg** 1997 Apr;63(4):1133–7
"Incisura" of the ascending aorta and vascular pedicle width in the cardiac transplant patient. Chiou AC, et al. **Ann Thorac Surg** 1996 Oct;62(4):1141–5
Controlled reperfusion of cardiac grafts from non–heart–beating donors. Cope JT, et al. **Ann Thorac Surg** 1996 Nov;62(5):1418–23
Mitral valve replacement and tricuspid valve repair after cardiac transplantation. Goldstein DJ, et al. **Ann Thorac Surg** 1997 May;63(5):1463–5
Standard criteria for an acceptable donor heart are restricting heart transplantation. Jeevanandam V, et al. **Ann Thorac Surg** 1996 Nov;62(5):1268–75
Recurrent aortic dissection after orthotopic heart transplantation. Mullen JC, et al. **Ann Thorac Surg** 1996 Dec;62(6):1830–1
Heart transplantation: a single–center experience. Pasic M, et al. **Ann Thorac Surg** 1996 Dec;62(6):1685–90
Management of left ventricular assist device infection with heart transplantation. Prendergast TW, et al. **Ann Thorac Surg** 1997 Jul;64(1):142–7
Should cardiac transplantation be offered to septuagenarians? [editorial; comment] Richenbacher WE. **Ann Thorac Surg** 1996 Dec;62(6):1578–9. Comment on: Ann Thorac Surg 1996 Dec;62(6):1731–6.
Biological bridging after repair of an anomalous origin of a left coronary artery. Schmid C, et al. **Ann Thorac Surg** 1996 Dec;62(6):1839–41
Previous open heart operation: a contribution to impaired outcome after cardiac transplantation? Uthoff K, et al. **Ann Thorac Surg** 1997 Jan;63(1):117–23
Cytokine responses to cardiopulmonary bypass: lessons learned from cardiac transplantation. Wan S, et al. **Ann Thorac Surg** 1997 Jan;63(1):269–76 (71 ref.)
Enlarging mediastinal mass after cardiac transplantation. Weinstein S, et al. **Ann Thorac Surg** 1997 Sep;64(3):845–7
Why do ninety–seven thousand people have to die? [editorial]

Kloff WJ. **Artif Organs** 1996 Dec;20(12):1263–5
Management of acute fulminant myocarditis using circulatory support systems. Reiss N, et al. **Artif Organs** 1996 Aug; 20(8):964–70
Current status of heart assist and replacement in Taiwan. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1325–9
Cost analysis of the Novacor Left Ventricular Assist System as an outpatient bridge to heart transplantation. Arabia FA, et al. **ASAIO J** 1996 Sep–Oct;42(5):M546–9
Success rates of long-term circulatory assist devices used currently for bridge to heart transplantation. Arabia FA, et al. **ASAIO J** 1996 Sep–Oct;42(5):M542–6 (34 ref.)
Anatomic fitting studies of a total artificial heart in heart transplant recipients. Critical dimensions and prediction of fit. Fukamachi K, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M337–42
Bridging to transplant. Equal extended survival for patients undergoing LVAD support when compared with long-term medical management. Mehta SM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M406–10
Lack of evidence of HHV-8 DNA in blood cells from heart transplant recipients [letter] De Milito A, et al. **Blood** 1997 Mar 1;89(5):1837–8
Allogeneic peripheral blood stem cell transplant for myelodysplasia after chemotherapy for post-transplant lymphoma in a cardiac transplant recipient at 10 years. Lister J, et al. **Bone Marrow Transplant** 1997 May; 19(9):943–5
Effectiveness of periodontal treatments on cyclosporine-induced gingival overgrowth in transplant patients. Somacarrera ML, et al. **Br Dent J** 1997 Aug 9; 183(3):89–94
Inhaled nitric oxide for right ventricular dysfunction following cardiac transplantation. George SJ, et al. **Br J Clin Pract** 1997 Jan–Feb;51(1):53–5
Heart transplantation for end-stage heart failure caused by iron overload. Koerner MM, et al. **Br J Haematol** 1997 May;97(2):293–6
Follow-up after cardiac transplantation. Parameshwar J. **Br J Hosp Med** 1996 Oct 2–15;56(7):350–4 (15 ref.)
Treatment of gout following cardiac transplantation [letter] Byrne PA, et al. **Br J Rheumatol** 1996 Dec;35(12):1329
Heart rate changes in cardiac transplant patients and in the denervated cat heart after edrophonium. Backman SB, et al. **Can J Anaesth** 1997 Mar;44(3):247–54
Comparison of Neoral and Sandimmune cyclosporine for induction of immunosuppression after heart transplantation. Carrier M, et al. **Can J Cardiol** 1997 May;13(5):469–73
Quality of life of candidates for and recipients of heart transplants. Molzahn AE, et al. **Can J Cardiol** 1997 Feb; 13(2):141–6
Cardiopulmonary exercise testing for heart transplant candidate selection. Mancini DM. **Cardiologia** 1997 Jun; 42(6):579–84 (22 ref.)
TNF alpha mRNA and protein in cardiac transplant biopsies: comparison with serum TNF alpha levels. Azzawi M, et al. **Cardiovasc Res** 1996 Sep;32(3):551–6
Alteration in the control of mitochondrial respiration by outer mitochondrial membrane and creatine during heart preservation. Kay L, et al. **Cardiovasc Res** 1997 Jun; 34(3):547–56
Heart transplant for the failing ischaemic ventricle. Nataf R, et al. **Cardiovasc Surg** 1996 Apr;4(2):120–3
Tuberculosis in heart transplant recipients. Körner MM, et al. **Chest** 1997 Feb;111(2):365–9
Left anterior descending coronary artery bridge. A cause of early death after cardiac transplantation. Pittaluga J, et al. **Chest** 1997 Feb;111(2):511–3
Heart transplantation. Liu X. **Chin Med J (Engl)** 1996 Jan; 109(1):31–3 (0 ref.)
Organ transplantation. Xia S. **Chin Med J (Engl)** 1996 Jan; 109(1):29–31 (0 ref.)
Development and prospective validation of a clinical index to predict survival in ambulatory patients referred for cardiac transplant evaluation [see comments] Aaronson KD, et al. **Circulation** 1997 Jun 17;95(12):2660–7. Comment in: Circulation 1997 Jun 17;95(12):2597–9.
Dobutamine stress echocardiography predicts cardiac events in heart transplant patients. Akosah KO, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II283–8
Recognition of acute cardiac allograft rejection from serial integrated backscatter analyses in human orthotopic heart transplant recipients. Comparison with conventional echocardiography. Angermann CE, et al. **Circulation** 1997 Jan 7;95(1):140–50
Sympathetic stimulation overrides flow-mediated endothelium-dependent epicardial coronary vasodilation in transplant patients. Aptecar E, et al. **Circulation** 1996 Nov 15;94(10):2542–50
ICD use as a bridge to cardiac transplantation [letter; comment] Barron HV, et al. **Circulation** 1996 Nov 1; 94(9):2308–10. Comment on: Circulation 1995 Dec 1;92(11):3273–81.
Total atrioventricular cardiac transplantation preserves atrial systole and ventricular diastolic filling. Bittner HB, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II260–6
Natural course of moderate cardiac allograft rejection (International Society for Heart Transplantation grade 2) early and late after transplantation. Brunner-La Rocca HP, et al. **Circulation** 1996 Sep 15;94(6):1334–8
Hemodynamic exercise testing. A valuable tool in the selection of cardiac transplantation candidates. Chomsky DB, et al. **Circulation** 1996 Dec 15;94(12):3176–83
Heart transplantation in Chagas' disease. 10 years after the initial experience. de Carvalho VB, et al. **Circulation** 1996 Oct 15;94(8):1815–7
Predicting outcomes in severe heart failure [editorial; comment] De Marco T, et al. **Circulation** 1997 Jun 17; 95(12):2597–9. Comment on: Circulation 1997 Jun 17;95(12):2660–7.
Images in cardiovascular Medicine. Dynamic cardiomyoplasty after Heart transplantation. An unusual electrocardiogram. Fernández González AL, et al. **Circulation** 1996 Jun 15;93(12):2204
Cyclosporine may affect improvement of cognitive brain function after successful cardiac transplantation [see comments] Grimm M, et al. **Circulation** 1996 Sep 15; 94(6):1339–45. Comment in: Circulation 1996 Sep 15;94(6):1209–11.
Effects of exercise during long-term support with a left ventricular assist device. Results of the experience with left ventricular assist device with exercise (EVADE) pilot trial [see comments] Jaski BE, et al. **Circulation** 1997 May 20;95(10):2401–6. Comment in: Circulation 1997 May 20;95(10):2340–3.
Pretransplant panel reactive-antibody screens. Are they truly a marker for poor outcome after cardiac transplantation? Kobashigawa JA, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II294–7
Effects of cardiac allograft vasculopathy on myocardial blood flow, vasodilatory capacity, and coronary vasomotion. Kofoed KF, et al. **Circulation** 1997 Feb 4; 95(3):600–6
Cytomegalovirus infection-enhanced cardiac allograft vasculopathy is abolished by DHPG prophylaxis in the rat. Lemström K, et al. **Circulation** 1997 Jun 17; 95(12):2614–6
Role of compensatory enlargement and shrinkage in transplant coronary artery disease. Serial intravascular ultrasound study. Lim TT, et al. **Circulation** 1997 Feb 18; 95(4):855–9
Estrogen effects on insulin-like growth factor-I (IGF-I)-induced cell proliferation and IGF-I expression in native and allograft vessels. Lou H, et al. **Circulation** 1997 Aug 5;96(3):927–33
Images in cardiovascular medicine. An "ACE' of a test. Narula J, et al. **Circulation** 1997 May 20;95(10):2456–7
Bridge experience with long-term implantable left ventricular assist devices. Are they an alternative to transplantation? Oz MC, et al. **Circulation** 1997 Apr 1; 95(7):1844–52
Increased immunoreactive endothelin-1 in human transplant coronary artery disease. Ravalli S, et al. **Circulation** 1996 Nov 1;94(9):2096–102
Secular trends in cardiac transplant recipient and donor management in the United States, 1990 to 1994. A multi-institutional study. Cardiac Transplant Research Database Group. Rodeheffer RJ, et al. **Circulation** 1996 Dec 1;94(11):2883–9
Detection of cardiac transplant rejection with 111In-labeled lymphocytes and gamma scintigraphy. Rubin PJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II298–303
Influence of the implantable cardioverter-defibrillator on sudden death and total mortality in patients evaluated for cardiac transplantation [letter; comment] Sanmartin Fernández M, et al. **Circulation** 1997 Mar 18;95(6):1666. Comment on: Circulation 1995 Dec 1;92(11):3273–81.
Influence of implantable cardioverter-defibrillator on sudden death and total mortality in patients evaluated for cardiac transplantation [letter; comment] Stäblein A, et al. **Circulation** 1997 Mar 18;95(6):1666–7. Comment on: Circulation 1995 Dec 1;92(11):3273–81.
Apoptosis of cardiac myocytes during cardiac allograft rejection. Relation to induction of nitric oxide synthase. Szabolcs M, et al. **Circulation** 1996 Oct 1;94(7):1665–73
Functional recovery after human heart transplantation is related to the metabolic condition of the hypothermic donor heart. Van Dobbenburgh JO, et al. **Circulation** 1996 Dec 1;94(11):2831–6
Reduced coronary flow reserve during exercise in cardiac transplant recipients. Vassalli G, et al. **Circulation** 1997 Feb 4;95(3):607–13
Heart transplantation--an update. Blum A, et al. **Clin Cardiol** 1996 Dec;19(12):930–8 (51 ref.)
Aortic valve endocarditis in an acutely rejecting orthotopic heart transplant recipient. Fazia RB, et al. **Clin Cardiol** 1996 Aug;19(8):672–4
The risk of coronary artery disease after heart transplantation is increased in patients receiving low-dose cyclosporine, regardless of blood cyclosporine levels. Gamba A, et al. **Clin Cardiol** 1997 Sep;20(9):767–72
Oversensing of atrial flutter in the recipient atrium of a heart transplant patient with a permanent atrial pacemaker. Woodard DA, et al. **Clin Cardiol** 1996 Jul;19(7):597–8
Hodgkin's disease after cardiac transplant: a report of two cases. Hood IM, et al. **Clin Lab Haematol** 1996 Jun; 18(2):115–6
Etiology and outcome of outpatient fevers in pediatric heart transplant patients. Crandall WV, et al. **Clin Pediatr (Phila)** 1996 Sep;35(9):437–42
Immunosuppressive treatment in a heart transplantation candidate with antiphospholipid syndrome. Pengo V, et al. **Clin Rheumatol** 1996 Sep;15(5):504–7
The University of California at Los Angeles experience in heart transplantation. Kobashigawa JA, et al. **Clin Transpl** 1995;:129–35
Heart transplantation at the Heart Center North Rhine-Westphalia in Bad Oeynhausen — 1995 report. Koerner MM, et al. **Clin Transpl** 1995;:137–44
Treatment of steroid-resistant and recurrent acute cardiac transplant rejection with a short course of antibody therapy. Cantarovich M, et al. **Clin Transplant** 1997 Aug; 11(4):316–21
Heart transplantation for patients over age 60. Everett JE, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):478–81
Urinary nitrate excretion is increased in cardiac transplanted patients with acute graft rejection. Mügge A, et al. **Clin Transplant** 1996 Jun;10(3):298–305
Cyclophosphamide in cardiac transplant recipients with frequent rejection: a six-year retrospective review. Wagoner LE, et al. **Clin Transplant** 1996 Oct;10(5):437–43
My daughter is dying. Wong TY. **CMAJ** 1997 Jul 15; 157(2):172–4
Heart transplantation. **Curr Opin Cardiol** 1996 Mar; 11(2):B47–52
Heart transplantation. **Curr Opin Cardiol** 1997 Mar; 12(2):B58–65
Pathophysiology and treatment of lipid perturbation after cardiac transplantation. Ballantyne CM, et al. **Curr Opin Cardiol** 1997 Mar;12(2):153–60 (79 ref.)
Predicting outcome after cardiac transplantations: lessons from the Cardiac Transplant Research Database. Bourge RC, et al. **Curr Opin Cardiol** 1997 Mar;12(2):136–45 (13 ref.)
Myocardial viability in patients with coronary artery disease and left ventricular dysfunction: transplantation or revascularization? DeNofrio D, et al. **Curr Opin Cardiol** 1996 Jul;11(4):394–402 (54 ref.)
Selection and management of candidates for heart transplantation. Stevenson LW. **Curr Opin Cardiol** 1996 Mar;11(2):166–73 (54 ref.)
The use of tacrolimus and mycophenolate mofetil after cardiac transplantation. Taylor DO. **Curr Opin Cardiol** 1997 Mar;12(2):161–5 (33 ref.)
The brouhaha surrounding cardiac transplantation: the need to place outcomes in perspective. Young JB. **Curr Opin Cardiol** 1997 Mar;12(2):131–5 (0 ref.)
Effects of pravastatin in heart transplant recipients: implications of Kobashigawa et al. Gotto AM Jr. **Curr Opin Lipidol** 1995 Dec;6(6):341–3
Chromoblastomycosis in a patient with a cardiac transplant. Kinkead S, et al. **Cutis** 1996 Nov;58(5):367–70
Characterization of glucuronidated phase II metabolites of the immunosuppressant cyclosporine in urine of transplant patients using time-of-flight secondary-ion mass spectrometry. Meyer K, et al. **Drug Metab Dispos** 1996 Oct;24(10):1151–4
Evaluation of plasma levels of tumour necrosis factor alpha and interleukin-6 as rejection markers in a cohort of 142 heart-grafted patients followed by endomyocardial biopsy [see comments] Abdallah AN, et al. **Eur Heart J** 1997 Jun; 18(6):1024–9. Comment in: Eur Heart J 1997 Jun;18(6):885–6.
Survival analysis and clinical medicine. An observational comparison of the implantable cardioverter defibrillator, amiodarone treatment, and heart transplantation. Ector H, et al. **Eur Heart J** 1996 Sep;17(9):1444–7
Coronary compliance in patients following orthotopic heart transplantation. An intravascular ultrasound study. Kerber S, et al. **Eur Heart J** 1996 Dec;17(12):1891–7
Prostaglandin E1--bridge to cardiac transplantation. Technique, dosage, results. Pacher R, et al. **Eur Heart J** 1997 Feb;18(2):318–29
Graft vascular disease after heart transplantation. Schmid C, et al. **Eur Heart J** 1997 Apr;18(4):554–9 (59 ref.)
Moderate endurance training has no effect on the parathyroid function of heart transplant patients. Charloux A, et al. **Eur J Appl Physiol** 1997;76(2):134–9
Effect of short-term endurance training on exercise capacity, haemodynamics and atrial natriuretic peptide secretion in heart transplant recipients. Geny B, et al. **Eur J Appl Physiol** 1996;73(3–4):259–66
International experience with the CardioWest total artificial heart as a bridge to heart transplantation. Arabia FA, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S5–10
Malignant neoplasms following cardiac transplantation. Curtil A, et al. **Eur J Cardiothorac Surg** 1997 Jul; 12(1):101–6
Severe mitral valve dysfunction due to unsuspected granulomatous myocarditis: successful cardiac transplantation following attempted mitral valve repair. el-Gamel A, et al. **Eur J Cardiothorac Surg** 1996; 10(8):702–4 (8 ref.)
Ischemic cardiomyopathy--revascularization vs. transplantation. Kleikamp G, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S1–4
Long-term mechanical circulatory support as a bridge to transplantation, for recovery from cardiomyopathy, and for permanent replacement. Loebe M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S18–24
Different results of cardiac transplantation in patients with ischemic and dilated cardiomyopathy. Martinelli L, et al. **Eur J Cardiothorac Surg** 1995;9(11):644–50
Will permanent LVADs be better than heart transplantation? Massad MG, et al. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S11–7

The management of post-cardiac transplantation coronary artery disease. Parry A, et al. **Eur J Cardiothorac Surg** 1996; 10(7):528–32; discussion 53

The heartmate left ventricular assist system: worldwide clinical results. Poirier VL. **Eur J Cardiothorac Surg** 1997 Apr;11 Suppl:S39–44

Successful surgical repair of a false aneurysm of the ascending aorta following orthotopic cardiac transplantation: a case report. Punjabi P, et al. **Eur J Cardiothorac Surg** 1997 Jun; 11(6):1174–5

Long-term results of heart transplantation deteriorate more rapidly in patients over 60 years of age. Robin J, et al. **Eur J Cardiothorac Surg** 1996;10(4):259–63

Novacor LVAD bridge to transplantation in peripartum cardiomyopathy. Tandler R, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):394–6

Graft coronary vasculopathy in cardiac transplantation—evaluation of risk factors by multivariate analysis. Wahlers T, et al. **Eur J Cardiothorac Surg** 1996; 10(1):1–5

Toxoplasmosis in heart transplant recipients. Gallino A, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):389–93

Cardioprotective effects of diltiazem during acute rejection on heterotopic heart transplants. Libersan D, et al. **Eur Surg Res** 1997;29(3):229–36

Age limits for heart transplantation: medical aspects. Opasich C, et al. **G Ital Cardiol** 1997 Jun;27(6):557–62

Psychological and cognitive status before and after heart transplantation. Deshields TL, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):62S–69S

Survival of grafts of genetically modified cardiac myocytes transfected with FITC-labeled oligodeoxynucleotides and the beta-galactosidase gene in the noninfarcted area, but not the myocardial infarcted area. Aoki M, et al. **Gene Ther** 1997 Feb;4(2):120–7

Transcatheter embolisation of an enlarging acquired coronary arteriovenous fistula in a heart transplant recipient. Eccleshall SC, et al. **Heart** 1997 Aug;78(2):203–5

Routine coronary angiography after heart transplantation [editorial] Grant SC, et al. **Heart** 1997 Aug;78(2):101–2

Permanent pacemaker use after cardiac transplantation: completing the audit cycle. Holt ND, et al. **Heart** 1996 Nov;76(5):435–8

Permanent pacemaker implantation after cardiac transplantation: extra cost of a conservative policy. Holt ND, et al. **Heart** 1996 Nov;76(5):439–41

Surveillance cardiac catheterisation in heart transplant recipients [editorial] Kim CB, et al. **Heart** 1997 Aug; 78(2):103–4

Sympathetic reinnervation and heart rate variability after cardiac transplantation. Lord SW, et al. **Heart** 1997 Jun; 77(6):532–8

Hemodynamic adaptation to orthostatic stress after orthotopic heart transplantation. Doering LV, et al. **Heart Lung** 1996 Sep–Oct;25(5):339–51

Spouse stressors while awaiting heart transplantation [letter; comment] Fitzgerald H. **Heart Lung** 1996 Sep–Oct; 25(5):422. Comment on: Heart Lung 1996 Jan–Feb;25(1):4–13.

A comparison of cyclosporine A and cyclosporine G in a rabbit heterotopic cardiac transplant model: graft outcome and histological findings. Fryer JP, et al. **Histol Histopathol** 1996 Apr;11(2):277–84

Cardiac transplantation, perindopril, and left ventricular hypertrophy in spontaneously hypertensive rats. Harrap SB, et al. **Hypertension** 1996 Oct;28(4):622–6

Can Tl-201 myocardial SPECT abnormalities in orthotopic heart recipients be explained by coronary vessel wall alterations assessed by intravascular ultrasound? Kerber S, et al. **Int J Cardiol** 1996 Nov 15;57(1):91–6

Is pregnancy contraindicated after cardiac transplantation? A case report and literature review. Yuh-Jer Shen A, et al. **Int J Cardiol** 1997 Jul 25;60(2):151–6 (39 ref.)

Orthopaedic complications following cardiac transplantation. Egan B, et al. **Ir Med J** 1996 Jan–Feb;89(1):26–7

First successful implantation of an artificial heart in Israel: circulatory support for 90 days. Aravot DJ, et al. **Isr J Med Sci** 1996 Dec;32(12):1331–4

Transgenic pigs—breakthrough in xenotransplantation. Braidley P, et al. **Isr J Med Sci** 1996 Oct;32(10):795–8; discussion 1052

Hypertension prophylaxis with omega-3 fatty acids in heart transplant recipients. Andreassen AK, et al. **J Am Coll Cardiol** 1997 May;29(6):1324–31

Mechanism and location of atrial flutter in transplanted hearts: observations during transient entrainment from distant sites. Arenal A, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):539–46

Resistance exercise training restores bone mineral density in heart transplant recipients. Braith RW, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1471–7

Relation of donor age and preexisting coronary artery disease on angiography and intracoronary ultrasound to later development of accelerated allograft coronary artery disease. Gao HZ, et al. **J Am Coll Cardiol** 1997 Mar 1; 29(3):623–9

Variations in normal coronary vasodilatory reserve stratified by artery, gender, heart transplantation and coronary artery disease. Kern MJ, et al. **J Am Coll Cardiol** 1996 Nov 1; 28(5):1154–60

Enhanced myocardial 18F-2-fluoro-2-deoxyglucose uptake after orthotopic heart transplantation assessed by positron emission tomography. Rechavia E, et al. **J Am Coll Cardiol** 1997 Aug;30(2):533–8

Dietary fat intake of patients with heart transplants. Romaine AA, et al. **J Am Diet Assoc** 1996 Oct;96(10):1044–6

Doppler echocardiography in cardiac transplant patients: allograft rejection and its relationship to diastolic function. Boyd SY, et al. **J Am Soc Echocardiogr** 1997 Jun; 10(5):526–31

Gas exchange and cardiovascular kinetics with different exercise protocols in heart transplant recipients. Grassi B, et al. **J Appl Physiol** 1997 Jun;82(6):1952–62

Removal from the "waiting list" for heart transplantation: a risk factor for sudden death? Leier CV, et al. **J Card Fail** 1997 Jun;3(2):105–11; discussion 113–6

Cardiac transplantation: current indications, short-and long-term results, economic implications, and future developments. Olivari MT. **J Card Fail** 1996 Jun; 2(2):141–52 (124 ref.)

Rapid fall in sympathetic nerve hyperactivity in patients with heart failure after cardiac transplantation. Rundqvist B, et al. **J Card Fail** 1997 Mar;3(1):21–6

Inhaled prostacyclin for treatment of pulmonary hypertension after cardiac surgery or heart transplantation: a pharmacodynamic study. Haraldsson A, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):864–8

Transesophageal echocardiographic assessment of left ventricular function in brain-dead patients: are marginally acceptable hearts suitable for transplantation? Vedrinne JM, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):708–12

Radiofrequency catheter ablation of atrial flutter after orthotopic heart transplantation. Li YG, et al. **J Cardiovasc Electrophysiol** 1996 Nov;7(11):1086–90

Interferon-gamma deficiency prevents coronary arteriosclerosis but not myocardial rejection in transplanted mouse hearts. Nagano H, et al. **J Clin Invest** 1997 Aug 1;100(3):550–7

Cyclosporin-A-induced gingival overgrowth in heart transplant patients. A cross-sectional study. Montebugnoli L, et al. **J Clin Periodontol** 1996 Sep;23(9):868–72

Extracorporeal membrane oxygenation in the perioperative period of heart transplantation. Ko WJ, et al. **J Formos Med Assoc** 1997 Feb;96(2):83–90

The International Society for Heart and Lung Transplantation 17th annual meeting and scientific sessions. London, England, April 2–5, 1997. Abstracts. **J Heart Lung Transplant** 1997 Jan;16(1):41–142

The International Society for Heart and Lung Transplantation 16th annual meeting and scientific sessions. New York, New York, March 15–18, 1996. Abstracts. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 2):S1–114

External jugular vein approach for percutaneous right ventricular biopsy. Anderson AS, et al. **J Heart Lung Transplant** 1997 May;16(5):576–8

Morphometric and immunocytochemical analysis of coronary arterioles in human transplanted hearts. Armstrong AT, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):818–26

Detection of acute cardiac allograft rejection with high resolution electrocardiography: experimental study in rats. Babuty D, et al. **J Heart Lung Transplant** 1996 Nov; 15(11):1120–9

Transient aplastic anemia caused by parvovirus B19 infection in a heart transplant recipient. Bergen GA, et al. **J Heart Lung Transplant** 1996 Aug;15(8):843–5

Mid-term results of heart transplantation, cardiomyoplasty, and medical treatment of refractory heart failure caused by idiopathic dilated cardiomyopathy. Bocchi EA, et al. **J Heart Lung Transplant** 1996 Jul;15(7):736–45

Effect of pentoxifylline on renal toxicity of cyclosporine: results of a clinical trial after heart transplantation. Carrier M, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1179–83

Bridge to transplantation with the CardioWest total artificial heart: the international experience 1993 to 1995. Copeland JG, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):94–9

Pseudopericardial effusions in heart transplant recipients. Dorffner R, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):846–9

Cortical blindness secondary to cyclosporine after orthotopic heart transplantation: a case report and review of the literature. Drachman BM, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1158–64 (38 ref.)

Outcomes of patients undergoing transplantation with older donor hearts. Drinkwater DC, et al. **J Heart Lung Transplant** 1996 Jul;15(7):684–91

Eosinophilic myocarditis in heart transplant candidates [letter; comment] Fernández-González AL, et al. **J Heart Lung Transplant** 1996 Aug;15(8):852–3. Comment on: J Heart Lung Transplant 1995 Jul–Aug;14(4):755–60.

Influence of acute or chronic rejection on myocardial collagen density in serial endomyocardial biopsy specimens from cardiac allografts. Fornes P, et al. **J Heart Lung Transplant** 1996 Aug;15(8):796–803

Symptom distress three months after heart transplantation. Jalowiec A, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):604–14

Identification of programmed cell death (apoptosis) in situ by means of specific labeling of nuclear DNA fragments in heart biopsy samples during acute rejection episodes. Laguens RP, et al. **J Heart Lung Transplant** 1996 Sep; 15(9):911–8

The alternate recipient list for heart transplantation: does it work? Laks H, et al. **J Heart Lung Transplant** 1997 Jul; 16(7):735–42

Prediction of angiographic disease by intracoronary ultrasonographic findings in heart transplant recipients. Liang DH, et al. **J Heart Lung Transplant** 1996 Oct; 15(10):980–7

Prominence of apolipoproteins B, (a), and E in the intimae of coronary arteries in transplanted human hearts: geographic relationship to vessel wall proteoglycans. Lin H, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1223–32

Biglycan, decorin, and versican protein expression patterns in coronary arteriopathy of human cardiac allograft: distinctness as compared to native atherosclerosis. Lin H, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1233–47

L-arginine prevents heart transplant arteriosclerosis by modulating the vascular cell proliferative response to insulin-like growth factor-I and interleukin-6. Lou H, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1248–57

The prognostic impact of immunosuppression and cellular rejection on cardiac allograft vasculopathy: time for a reappraisal. Mehra MR, et al. **J Heart Lung Transplant** 1997 Jul;16(7):743–51

Lipid disorder and transplant coronary artery disease in long-term survivors of heart transplantation. Park JW, et al. **J Heart Lung Transplant** 1996 Jun;15(6):572–9

Does distance between home and transplantation center adversely affect patient outcomes after heart transplantation? Rodkey SM, et al. **J Heart Lung Transplant** 1997 May;16(5):496–503

Infective endocarditis of the tricuspid valve in an orthotopic heart transplant recipient. Stewart MJ, et al. **J Heart Lung Transplant** 1996 Jun;15(6):646–9

Absence of Epstein-Barr virus involvement in an adult heart transplant recipient with an epitheloid leiomyosarcoma [letter] van Gelder T, et al. **J Heart Lung Transplant** 1996 Jun;15(6):650–1

Low-dose cyclosporine treatment fails to prevent coronary luminal narrowing after heart transplantation. Vassalli G, et al. **J Heart Lung Transplant** 1996 Jun;15(6):612–9

Left ventricular mass and diurnal variation in blood pressure with time after cardiac transplant. Jenkins GH, et al. **J Hum Hypertens** 1996 Jun;10(6):413–4

Compromised allograft rejection response in transgenic mice expressing antisense sequences to retinoic acid receptor beta2. Chen H, et al. **J Immunol** 1997 Jul 15;159(2):623–34

Eosinophilic droplets similar to red cells are present in the hyperacute rejection of heart xenografts [letter; comment] Beranek JT. **J Intern Med** 1997 Jan;241(1):89–90. Comment on: J Intern Med 1996 Apr;239(4):287–97.

Possible pathogenic role for Sporothrix cyanescens isolated from a lung lesion in a heart transplant patient. Tambini R, et al. **J Med Vet Mycol** 1996 Jun–Jul;34(3):195–8

Transplantation-induced atrophy of normal and hypertrophic rat hearts: effect on cardiac myocytes and capillaries. Rakusan K, et al. **J Mol Cell Cardiol** 1997 Mar; 29(3):1045–54

Decreased expression of ventricular angiotensin receptor type 1 mRNA after human heart transplantation. Regitz-Zagrosek V, et al. **J Mol Med** 1996 Dec; 74(12):777–82

The survival of embryonic cardiomyocytes transplanted into damaged host rat myocardium. Connold AL, et al. **J Muscle Res Cell Motil** 1997 Feb;18(1):63–70

Noninvasive detection of acute heart rejection: the quest for the perfect test [editorial]] Ballester M, et al. **J Nucl Cardiol** 1997 May–Jun;4(3):249–55

Selecting patients with ischemic cardiomyopathy for medical treatment, revascularization, or heart transplantation. Beller GA. **J Nucl Cardiol** 1997 Mar–Apr;4(2 Pt 2):S152–7 (27 ref.)

Simultaneous evaluation of fatty acid metabolism and myocardial flow in an explanted heart. Jonas M, et al. **J Nucl Med** 1996 Dec;37(12):1990–4

Cardiac transplantation in patients aged 60 years or older. Mischke L, et al. **J Okla State Med Assoc** 1996 Jan; 89(1):22–5

Cardiac transplantation: perspectives on long-term survival [editorial; comment] Kaplan S, et al. **J Pediatr** 1997 Jun; 130(6):851–3. Comment on: J Pediatr 1997 Jun;130(6):862–71.

Long-term survivors of pediatric heart transplantation: a multicenter report of sixty-eight children who have survived longer than five years [see comments] Sigfússon G, et al. **J Pediatr** 1997 Jun;130(6):862–71. Comment in: J Pediatr 1997 Jun;130(6):851–3.

Protein-losing enteropathy secondary to Fontan procedure resolved after cardiac transplantation. Sierra C, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):229–30

Whole blood cyclosporin monitoring in liver and heart transplant patients: evaluation of the specificity of a fluorescence polarization immunoassay and an enzyme-multiplied immunoassay technique. Gulbis B, et al. **J Pharm Biomed Anal** 1997 Apr;15(7):957–63

Cardiac transplantation in South Carolina: the first 100 patients. Crumbley AJ 3rd, et al. **J S C Med Assoc** 1996 Dec;92(12):485–92

Graft persistence effectively induces and maintains donor-specific unresponsiveness. Nishinaka H, et al. **J Surg Res** 1997 Mar;68(2):145–52

Preoperative and postoperative comparison of patients with univentricular and biventricular support with the thoratec ventricular assist device as a bridge to cardiac transplantation. Farrar DJ, et al.

J Thorac Cardiovasc Surg 1997 Jan;113(1):202–9

Atrial natriuretic peptide release after cardiac transplantation [letter] El Gamel A, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1128–9

Heterotopic cardiac transplantation in infants and children [see comments] Khaghani A, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1042–8; discussion 1048–9. Comment in: J Thorac Cardiovasc Surg 1997 Jun;113(6):1041.

Orthotopic heart transplantation for Kawasaki disease after rupture of a giant coronary artery aneurysm. Koutlas TC, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):217–8

Does successful bridging with the implantable left ventricular assist device affect cardiac transplantation outcome? Massad MG, et al. **J Thorac Cardiovasc Surg** 1996 Nov; 112(5):1275–81; discussion 1282–3

Percutaneous transvenous angioplasty of a stenosed bicaval anastomosis after orthotopic cardiac transplantation. Pedrazzini GB, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1667–9

Native cardiectomy in a heterotopic heart transplant recipient. Pham SM, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1109–11

Cardiac transplantation for auxiliary circulatory support [editorial; comment] Reemtsma K. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1041. Comment on: J Thorac Cardiovasc Surg 1997 Jun;113(6):1042–8; discussion 1048–9.

Efficient gene transfer method into the whole heart through the coronary artery with hemagglutinating virus of Japan liposome [see comments] Sawa Y, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):512–8; discussion 518–9. Comment in: J Thorac Cardiovasc Surg 1997 Mar;113(3):510–1.

Inhibition of lipid peroxidation with the lazaroid U74500A attenuates ischemia–reperfusion injury in a canine orthotopic heart transplantation model. Tanoue Y, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1017–26

Successful bridging to cardiac transplantation in a dystrophic infant with the use of a new paracorporeal pneumatic pump. Weyand M, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):505–7

Heart donation after fatal acetaminophen poisoning [letter] Hantson P, et al. **J Toxicol Clin Toxicol** 1997;35(3):325–6

Endomyocardial biopsies. An early warning system for chronic transplant arteriopathy [editorial; comment] Aretz HT, et al. **JAMA** 1997 Oct 8;278(14):1197–8. Comment on: JAMA 1997 Oct 8;278(14):1169–75.

Development of donor–derived prostate cancer in a recipient following orthotopic heart transplantation [see comments] Loh E, et al. **JAMA** 1997 Jan 8;277(2):133–7. Comment in: JAMA 1997 Jan 8;277(2):154–5. Comment in: JAMA 1997 May 7;277(17):1354; discussion 1355. Comment in: JAMA 1997 May 7;277(17):1355.

Heart transplantation in the pediatric population. Miller LW. **Kidney Int Suppl** 1996 Jan;53:S85–7 (26 ref.)

Have a pig's heart? [editorial] [see comments] **Lancet** 1997 Jan 25;349(9047):219. Comment in: Lancet 1997 Mar 8;349(9053):735–6. Comment in: Lancet 1997 Apr 5;349(9057):1031.

Opportunistic lung infection with Corynebacterium pseudodiphtheriticum after lung and heart transplantation. Burke GJ, et al. **Med J Aust** 1997 Apr 7;166(7):362–4

Serum creatine kinase kinetics after endomyocardial biopsy in cardiac transplant patients. Malinowski TR, et al. **Mil Med** 1997 Jan;162(1):51–4

Heterotopic heart transplantation alters high–energy phosphate metabolism irrespective of cardiac allograft rejection. Onno van Dobbenburgh J, et al. **Mol Cell Biochem** 1996 Oct–Nov;163–164:247–52

Xenotransplantation: problems and prospects. Perico N, et al. **Nephrol Dial Transplant** 1997;12 Suppl 1:59–64 (52 ref.)

PR interval adaptation in the denervated transplanted heart. Koller–Strametz J, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1247–51

Heart rate variability after cardiac transplantation in humans. Ramaekers D, et al. **Pacing Clin Electrophysiol** 1996 Dec; 19(12 Pt 1):2112–9

Heart transplantation for Barth syndrome. Adwani SS, et al. **Pediatr Cardiol** 1997 Mar–Apr;18(2):143–5

Aplastic anemia in a cardiac transplant recipient. Thio K, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1139, 1141–2 (11 ref.)

Cardiac transplantation for Kawasaki disease. Checchia PA, et al. **Pediatrics** 1997 Oct;100(4):695–9

Prolonged extracorporeal life support for bridging to transplant: technical and mechanical considerations. Frazier EA, et al. **Perfusion** 1997 Mar;12(2):93–8

Inspiratory muscle training in patients with chronic heart failure awaiting cardiac transplantation: results of a pilot clinical trial. Cahalin LP, et al. **Phys Ther** 1997 Aug; 77(8):830–8

Parental understanding of the consequences of pediatric cardiac transplantation. Higgins SS, et al. **Prog Cardiovasc Nurs** 1996 Summer;11(3):10–6

Cyclosporin nephrotoxicity in heart and lung transplant patients. Griffiths MH, et al. **QJM** 1996 Oct;89(10):751–63

Mediastinal irradiation in lung cancer three years after heart transplantation: a case report [letter] Martin T, et al. **Radiother Oncol** 1997 Jul;44(1):91–2

Management and prevention of acute renal failure in solid organ transplantation. Morales JM. **Ren Fail** 1996 May; 18(3):481–8 (25 ref.)

Cardiac transplantation in South Africa [editorial] Vosloo S. **S Afr Med J** 1996 Jun;86 Suppl 3:C128–9

Percutaneous transluminal angioplasty and retransplantation due to transplant coronary artery disease. Fiane AE, et al. **Scand Cardiovasc J** 1997;31(4):223–7

Pump it up. A new implant sustains heart patients waiting for transplants [news] Sinha G. **Sci Am** 1996 Nov; 275(5):44–5

Biventricular assist device as a bridge to cardiac transplantation in the treatment of peripartum cardiomyopathy. Lewis R, et al. **South Med J** 1997 Sep; 90(9):955–8

Inhibition of warm ischemic injury to rat liver, pancreas, and heart grafts by controlling the nutritional status of both donor and recipient. Nishihara V, et al. **Surg Today** 1997; 27(7):645–50

Permanent pacing for asystole of the donor heart after heterotopic heart transplantation. Kalife G, et al. **Tex Heart Inst J** 1997;24(1):64–7

Evaluation of the Pro–Trac tacrolimus monoclonal whole–blood enzyme–linked immunosorbent assay for monitoring of tacrolimus levels in patients after kidney, heart, and liver transplantation. Winkler M, et al. **Ther Drug Monit** 1996 Dec;18(6):640–6

Heart transplantation in patients with diabetic end–organ damage before transplantation. Aleksic I, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):282–8

Survival of acute intestinal infarction after cardiac transplantation. Aleksic I, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):352–4

Long–term mechanical circulatory support. el–Banayosy A, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):127–30

Multiple cardiac procedures after heart transplantation: a case report. Hoffmeier A, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):216–8

Castanospermine, an oligosaccharide processing inhibitor, reduces membrane expression of adhesion molecules and prolongs heart allograft survival in rats. Grochowicz PM, et al. **Transpl Immunol** 1996 Dec;4(4):275–85

Effect of RS61443 in combination with leflunomide or FK506 on rat heart allograft survival. Antoniou E, et al. **Transpl Int** 1996;9 Suppl 1:S331–3

Donor heart quality control. Analysis of echocardiographic (EC) findings and patient outcome. Auer T, et al. **Transpl Int** 1996;9 Suppl 1:S409–13

Patterns in donor–specific mRNA and protein production of Th1 and Th2 cytokines by graft–infiltrating lymphocytes and PBMC after heart transplantation. Baan CC, et al. **Transpl Int** 1996;9 Suppl 1:S237–40

Acute diverticulitis in heart transplant recipients. Detry O, et al. **Transpl Int** 1996;9(4):376–9 (22 ref.)

Arrhythmogenic mortality in heart–transplant candidates. Fieguth HG, et al. **Transpl Int** 1996;9 Suppl 1:S219–20

Minimal amounts of hyaluronidase in HTK or UW solution substantially improve the recovery of preserved hearts. Fischer JH, et al. **Transpl Int** 1996;9 Suppl 1:S442–6

Comparison of University of Wisconsin and University of Pittsburgh solutions for heart transplantation. Hossain MA, et al. **Transpl Int** 1996;9(4):380–5

Anomalous origin of the left coronary artery from the pulmonary artery with large anterior myocardial infarction and ischemia: successful tunnel repair and concomitant heterotopic heart transplantation as biological bridge to recovery [letter] Kececioglu D, et al. **Transpl Int** 1997; 10(2):161–3

A short–term combination therapy with cyclosporine and rapamycin or leflunomide induces long–term heart allograft survival in a strongly immunogenic strain combination in rats. Lin Y, et al. **Transpl Int** 1996;9 Suppl 1:S328–30

Ultrastructure changes associated with brain death in the human donor heart. Novitzky D, et al. **Transpl Int** 1997; 10(1):24–32

Lipids, lipoprotein (a) and coronary artery disease in patients following cardiac transplantation. Parameshwar J, et al. **Transpl Int** 1996;9(5):481–5

Renal responses to exercise in heart and kidney transplant patients. Poortmans JR, et al. **Transpl Int** 1997;10(4):323–7

Cadaver hearts as donor grafts [letter] Robicsek F. **Transpl Int** 1996;9(4):438

Coronary stenting for coronary artery narrowing in a heart transplant recipient. Seydoux C, et al. **Transpl Int** 1996; 9(4):433–6

Prolonged allograft survival by the inhibition of costimulatory CD2 signals but not by modulation of CD48 (CD2 ligand) in the rat. Sido B, et al. **Transpl Int** 1996; 9 Suppl 1:S323–7

The effect and pharmacokinetics of nafamostat mesilate adjunct to cold nondepolarizing cardioplegia in a canine model of cardiac preservation. Sunamori M, et al. **Transpl Int** 1996;9(4):364–9

Sensitization interval and administration method alter the effect of 15–deoxyspergualin on heart transplantation in sensitized recipient rats. Ueda H, et al. **Transpl Int** 1996; 9(6):551–6

Evidence that cyclosporin A prevents clinical cardiac allograft rejection by blocking both direct and indirect antigen presentation pathways. van Besouw NM, et al. **Transpl Int** 1996;9 Suppl 1:S345–7

Intragraft cytokine and growth factor mRNA expression in relation to graft vascular disease after heart transplantation. Baan CC, et al. **Transplant Proc** 1997 Sep;29(6):2535–6

Role of 111 In–monoclonal antimyosin antibodies in risk stratification of patients with dilated cardiomyopathy referred for heart transplantation. Ballester M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):589–91

Ganciclovir use during mild renal failure in heart transplantation. Bastien O, et al. **Transplant Proc** 1996 Oct; 28(5):2876–7

Comparison of intravascular ultrasound and quantitative angiography for evaluation of coronary artery disease in the transplanted heart. Buszman P, et al. **Transplant Proc** 1996 Dec;28(6):3535–7

2–Chlorodeoxyadenosine in combination with cyclosporine inhibits the development of transplant arteriosclerosis in rat cardiac allografts. Cramer DV, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):616

Benefits of photopheresis in the treatment of heart transplant patients with multiple/refractory rejection. Dall'Amico R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):609–11

Utility of transesophageal echocardiography in heart collection decision making. Darmon PL, et al. **Transplant Proc** 1996 Oct;28(5):2895

Primary bronchogenic carcinoma in transplant recipients. Delcambre F, et al. **Transplant Proc** 1996 Oct;28(5):2884–5

Pregnancy after cardiac transplantation. Delforge C, et al. **Transplant Proc** 1997 Aug;29(5):2481–3

French multicenter study of Neoral conversion in heart transplant patients. Dorent R, et al. **Transplant Proc** 1997 Aug;29(5):2326–7

Polymorphisms for angiotensin converting enzyme, angiotensinogen, nitric oxide synthase, and endothelin and their association with cardiac allograft vasculopathy in the first year posttransplant. Elstein E, et al. **Transplant Proc** 1997 Sep;29(6):2575

Polymorphisms in genes of angiotensin converting enzyme, angiotensinogen, nitric oxide synthase, and endothelin and their association with cardiac allograft rejection. Elstein E, et al. **Transplant Proc** 1997 Sep;29(6):2576

Beta–2 microglobulin in heart transplanted patients. Erez E, et al. **Transplant Proc** 1997 Sep;29(6):2706–7

Performances of Doppler echocardiography for diagnosis of acute, mild, or moderate cardiac allograft rejection. Fauchier L, et al. **Transplant Proc** 1997 Aug;29(5):2442–5

Right ventricular ejection fraction predicts urgent need for heart transplantation. Frey B, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):592

Therapeutic approaches in chronic rejection and cardiac vascularization reinjury. Häyry P. **Transplant Proc** 1996 Dec;28(6):3435–6

Dose adjustment and cost of itraconazole prophylaxis in lung transplant recipients receiving cyclosporine and tacrolimus (FK 506). Kramer MR, et al. **Transplant Proc** 1997 Sep; 29(6):2657–9

Successful pregnancy 5 years after cardiac transplantation for peripartum cardiomyopathy. Kreitmann B, et al. **Transplant Proc** 1997 Aug;29(5):2457

Long–term survival of hamster–to–rat heart xenografts based on mechanisms of accommodation and tolerance of CD5 B cells. Lin Y, et al. **Transplant Proc** 1997 Aug;29(5):2355

Rejection of cardiac xenografts by NK cells and macrophages. Lin Y, et al. **Transplant Proc** 1997 Aug; 29(5):2354

Major histocompatibility complex class II antigen expression is suppressed by estradiol in cardiac allografts. Lou H, et al. **Transplant Proc** 1997 Sep;29(6):2626–7

Heart and lung transplantation. McLean AD, et al. **Transplant Proc** 1997 Sep;29(6):2719–20 (0 ref.)

Osteoporosis following heart transplantation. Negri AL, et al. **Transplant Proc** 1996 Dec;28(6):3321–4

Is chronic rejection of liver transplants different from graft arteriosclerosis of kidney and heart transplants? Neil DA, et al. **Transplant Proc** 1997 Sep;29(6):2539–40

Short– and intermediate–term implications of using older donors for heart transplantation. Pierson RN 3rd, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):593–4

Induction of mixed hematopoietic chimerism and specific transplantation tolerance to allogeneic and xenogeneic grafts by selective elimination of donor–reactive host cells following nonmyeloablative conditioning. Prigozhina TB, et al. **Transplant Proc** 1997 Sep;29(6):2644–6

Significant reduction in the number of fungal infections after lung–, heart–lung, and heart transplantation using aerosolized amphotericin B prophylaxis. Reichenspurner H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):627–8

Knockout models of chronic cardiac rejection and graft arteriosclerosis: intimal thickening develops independent of Th1 and Th2 cytokines. Russell ME, et al. **Transplant Proc** 1997 Sep;29(6):2531–2

Contributions of cellular and humoral immunity to arteriopathic lesions in transplanted mouse hearts. Russell PS, et al. **Transplant Proc** 1997 Sep;29(6):2527–8

Temporal relationship between insulin–like growth factor–I and platelet–derived growth factor–BB expression in the rat aorta allograft in the early phase following transplantation. Saito S, et al. **Transplant Proc** 1997 Sep; 29(6):2552–3

Heart valve donation from living donors: an underestimated resource? Schütt GR, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):989–90

First program of heart transplantation in a public hospital in Argentina. Sgrosso JL, et al. **Transplant Proc** 1996 Dec; 28(6):3354–5

Lymphoma incidence, cyclosporine, and the evolution and

major impact of malignancy following organ transplantation. Sheil AG, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):825–7

Procalcitonin: a new marker for differential diagnosis of acute rejection and bacterial infection in heart transplantation. Staehler M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):584–5

Validation of big endothelin plasma levels compared with established neurohumoral markers in patients with severe chronic heart failure. Stanek B, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):595–6

Cardiac microvascular vasomotor response as a prognostic marker of left ventricular function in cardiac transplant recipients. Weis M, et al. **Transplant Proc** 1997 Sep; 29(6):2573–4

Pharmacodynamics of cyclosporine in heart and heart–lung transplant recipients. II: Blood cyclosporine concentrations and other risk factors for lung allograft rejection. Best NG, et al. **Transplantation** 1996 Nov 27;62(10):1436–41

Circadian variations of blood pressure and heart rate early and late after heart transplantation. Bracht C, et al. **Transplantation** 1996 Oct 27;62(8):1187–90

Atrioventricular block after administration of atropine in patients following cardiac transplantation. Brunner–La Rocca HP, et al. **Transplantation** 1997 Jun 27;63(12):1838–9

Effect of repetitive high–dose treatment with soluble complement receptor type 1 and cobra venom factor on discordant xenograft survival. Candinas D, et al. **Transplantation** 1996 Aug 15;62(3):336–42

Progressive histologic injury in kidneys from heart and liver transplant recipients receiving cyclosporine. Falkenhain ME, et al. **Transplantation** 1996 Aug 15;62(3):364–70

Effects of pentoxifylline on renal function and blood pressure in cardiac transplant recipients: a randomized trial. Frantz RP, et al. **Transplantation** 1997 Jun 15;63(11):1607–10

Cyclosporine–associated end–stage nephropathy after cardiac transplantation: incidence and progression. Goldstein DJ, et al. **Transplantation** 1997 Mar 15;63(5):664–8

Carcinoma of the lung after heart transplantation. Goldstein DJ, et al. **Transplantation** 1996 Sep 27;62(6):772–5 (18 ref.)

Epstein–Barr virus associated Burkitt lymphoma in a heart transplant recipient. Hunt BJ, et al. **Transplantation** 1996 Sep 27;62(6):869–72

Urate oxidase in hyperuricemic heart transplant recipients treated with azathioprine [letter; comment] Ippoliti G, et al. **Transplantation** 1997 May 15;63(9):1370–1. Comment on: Transplantation 1996 Jun 15;61(11):1661–2.

Human heart endothelial–cell–restricted allorecognition. Jutte NH, et al. **Transplantation** 1996 Aug 15;62(3):403–6

A new, biventricular working heterotopic heart transplant model: anatomic and physiologic considerations. Klima U, et al. **Transplantation** 1997 Jul 27;64(2):215–22

Extended donor criteria: use of cardiac allografts after carbon monoxide poisoning. Koerner MM, et al. **Transplantation** 1997 May 15;63(9):1358–60

Effect of porcine endothelial tissue factor pathway inhibitor on human coagulation factors. Kopp CW, et al. **Transplantation** 1997 Mar 15;63(5):749–58

Combined heart and kidney transplantation in a child: will we need it more in the future? Matteucci MC, et al. **Transplantation** 1997 May 27;63(10):1531–3

Key role of the alternate complement pathway in hyperacute rejection of rat hearts transplanted into fetal sheep. Rajasinghe HA, et al. **Transplantation** 1996 Aug 15; 62(3):407–11

Correlation of cytomegalovirus DNA levels with response to antiviral therapy in cardiac and renal allograft recipients. Toyoda M, et al. **Transplantation** 1997 Apr 15;63(7):957–63

Transfusion–related hepatitis G virus infections in heart transplant recipients [letter] Wolff D, et al. **Transplantation** 1996 Dec 15;62(11):1697–8

Pattern of liver, kidney, heart, and intestine allograft rejection in different mouse strain combinations. Zhang Z, et al. **Transplantation** 1996 Nov 15;62(9):1267–72

Who gets a heart? Rationing and rationalizing in heart transplantation. Allen MD, et al. **West J Med** 1997 May; 166(5):326–36

Acceptance of a pump–driven infusion therapy with prostaglandin E1 as a bridge to heart transplantation. Daneschvar H, et al. **Wien Klin Wochenschr** 1996; 108(16):510–4

[IL–2, IL–2R mRNA gene expression and protein production] Li Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):505–8 (Eng. Abstr.) **(Chi)**

[Successful heart transplantation in long–term ventilated patients (letter; comment)] Bredée JJ, et al. **Ned Tijdschr Geneeskd** 1997 Feb 15;141(7):353–5. Comment on: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2353–5. **(Dut)**

[Is heart transplantation only for the 'lucky few' in The Netherlands? (letter; comment)] Brouwer MH, et al. **Ned Tijdschr Geneeskd** 1996 Nov 30;140(48):2426–7. Comment on: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2321–2. **(Dut)**

[Successful heart transplantation in long–term ventilated patients (see comments)] Brouwer MH, et al. **Ned Tijdschr Geneeskd** 1996 Nov 23;140(47):2353–5 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2321–2. Comment in: Ned Tijdschr Geneeskd 1997 Feb 15;141(7):353–5. **(Dut)**

[Is heart transplantation in The Netherlands only for the lucky few? (comment) (see comments)] Verheugt FW. **Ned Tijdschr Geneeskd** 1996 Nov 23;140(47):2321–2. Comment on: Ned Tijdschr Geneeskd 1996 Nov 23;140(47):2353–5. Comment in: Ned Tijdschr Geneeskd 1996 Nov 30;140(48):2426–7. **(Dut)**

[Apropos of pneumopathy in a cardiac graft patient] Wallet F, et al. **Ann Biol Clin (Paris)** 1997 Mar–Apr;55(2):149–50 **(Fre)**

[Cardiac transplantation in 1997] Pavie A, et al. **Ann Cardiol Angeiol (Paris)** 1997 May–Jun;46(5–6):328–35 (48 ref.) (Eng. Abstr.) **(Fre)**

[Pubertal development after pediatric heart transplantation] De Broux E, et al. **Ann Chir** 1996;50(8):696–702 (Eng. Abstr.) **(Fre)**

[What are the indications for ambulatory mechanical hart–assist devices for the left ventricle?] Bouhour JB, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:81–4 (Eng. Abstr.) **(Fre)**

[Indications for heart transplantation (excluding emergencies)] Cohen–Solal A, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:15–22 (51 ref.) (Eng. Abstr.) **(Fre)**

[Medium–term results of non–invasive follow–up after cardiac transplantation in childhood and in adolescence] Di Filippo S, et al. **Arch Mal Coeur Vaiss** 1997 May; 90(5):617–23 (Eng. Abstr.) **(Fre)**

[Emergency cardiac transplantation] Dubois C, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:39–42 (Eng. Abstr.) **(Fre)**

[Lymphoma in the transplanted heart] Gélisse R, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1205–7 (Eng. Abstr.) **(Fre)**

[Right ventricular failure in terminale cardiac failure: prognostic value and evaluation before transplantation assessment] Juillière Y. **Arch Mal Coeur Vaiss** 1996 Nov; 89 Spec No 6:23–5 (Eng. Abstr.) **(Fre)**

[An original case of simultaneous cardiac, pancreatic and renal transplantation. Results over 6 years] Cinqualbre J, et al. **Chirurgie** 1997 Jan;121(9–10):654–7 (Eng. Abstr.) **(Fre)**

["Bridge to transplantation" using the Pierce–Donachy pulsatile ventricular assist device (Thoratec)] Defraigne JO, et al. **Rev Med Liege** 1997 Feb;52(2):110–5 **(Fre)**

[Follow–up after heart transplantation] Goy JJ, et al. **Schweiz Rundsch Med Prax** 1997 Mar 18;86(12):465–9 (Eng. Abstr.) **(Fre)**

[Value of the CSE–inhibitor Pravastatin in the lowering of cholesterol after heart and kidney transplantation] **Dtsch Med Wochenschr** 1997 Jan;122(3 Suppl):1–7 **(Ger)**

[Pneumococcal vaccination after heart and liver transplantation. Immune responses in immunosuppressed patients and in healthy controls] Dengler TJ, et al. **Dtsch Med Wochenschr** 1996 Dec 6;121(49):1519–25 (Eng. Abstr.) **(Ger)**

[Regional differences in referral for heart transplantation] Brunner–La Rocca HP, et al. **Schweiz Med Wochenschr** 1997 Apr 19;127(16):675–81 (Eng. Abstr.) **(Ger)**

[Alternatives to heart transplantation] Hejjel L, et al. **Orv Hetil** 1997 May 4;138(18):1107–11 (37 ref.) (Eng. Abstr.) **(Hun)**

[Results of 100 pulmonary and cardiopulmonary transplants in 95 patients at the Louis Pradel Hospital (Lyon) from 1988 to 1994] Gamondes JP, et al. **Acta Biomed Ateneo Parmense** 1995;66(6):261–7 (Eng. Abstr.) **(Ita)**

[Echocardiography versus catheterization in the selection of patients for heart transplantation] Recusani F, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):469–76 **(Ita)**

[Identification of viable myocardium in candidates for transplantation] Scarpini S. **Cardiologia** 1995 Dec;40(12 Suppl 1):451–2 **(Ita)**

[Heart transplantation 1985–1995: 10 years experience at the "Angelo De Gasperis" center. Improvement of results by progress in operative criteria (published erratum appears in G Ital Cardiol 1997 Jun;27(6):626)] Colombo T, et al. **G Ital Cardiol** 1997 Jan;27(1):3–18 (Eng. Abstr.) **(Ita)**

[Nitrate compounds in patients awaiting heart transplantation] Gavazzi A. **G Ital Cardiol** 1996 Sep; 26(9):1089–94 **(Ita)**

[Indications for heart transplant: retrospective evaluation of criteria for selection of candidates] Maddalena F, et al. **G Ital Cardiol** 1997 Apr;27(4):323–7 (Eng. Abstr.) **(Ita)**

[Laparoscopic cholecystectomy in patients previously treated with heart transplantation. A clinical case] Cristalli A, et al. **Minerva Anestesiol** 1996 Jun;62(6):213–7 (Eng. Abstr.) **(Ita)**

[Combined heart–kidney transplantation in pediatric age] Caione P, et al. **Minerva Pediatr** 1996 Oct;48(10):451–5 (21 ref.) (Eng. Abstr.) **(Ita)**

[A case of BK virus infection after heart transplantation] Hirata Y, et al. **Kansenshogaku Zasshi** 1997 Jan;71(1):87–8 **(Jpn)**

[How far can heterologous transplantation progress?] Kawauchi M, et al. **Kyobu Geka** 1997 Jan;50(1):17–21 (28 ref.) **(Jpn)**

[Postoperative immunosuppressive therapy for our patients with heart transplantation done in United States] Nunoda S, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec; 18(6):684–8 **(Jpn)**

[Heart transplantation] Fukushima N. **Nippon Geka Gakkai Zasshi** 1996 Nov;97(11):990–6 (Eng. Abstr.) **(Jpn)**

[Experimental study of the effectiveness of immunosuppression therapy using FK506 and 15 deoxyspergualin in concordant xenotransplantation] Maeda T. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun; 45(6):841–5 (Eng. Abstr.) **(Jpn)**

[Complications after cardiac transplantation] Suzuki J, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):557–9 (18 ref.) **(Jpn)**

[Heart transplantation as a life saving procedure after conventional heart surgery] Almdahl SM, et al. **Tidsskr Nor Laegeforen** 1996 Aug 30;116(20):2436–8 (Eng. Abstr.) **(Nor)**

[Extracorporeal heart pump—a bridge to heart transplantation. First Norwegian experiences] Fiane AE, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2295–8 (Eng. Abstr.) **(Nor)**

[Most common laryngological diseases in patients after heart transplantation] Namysłowski G, et al. **Otolaryngol Pol** 1996;50(4):399–403 (Eng. Abstr.) **(Pol)**

[Neonate and infant heart transplantation] Barbero–Marcial M, et al. **Arq Bras Cardiol** 1996 Sep;67(3):165–70 (Eng. Abstr.) **(Por)**

[Lipid profile changes during the late follow–up after heart transplantation] Bellotti G, et al. **Arq Bras Cardiol** 1996 May;66(5):263–6 (Eng. Abstr.) **(Por)**

[Infective endocarditis in patients subjected to heart transplantation (editorial)] Mansur AJ. **Arq Bras Cardiol** 1996 Jan;66(1):49 **(Por)**

[Optimization of the indications for and therapeutic management of patients referred for heart transplantation] Rohde LE, et al. **Arq Bras Cardiol** 1996 Sep;67(3):189–93 (33 ref.) **(Por)**

[Fungal infections in 100 patients subjected to heart transplantation] Uip DE, et al. **Arq Bras Cardiol** 1996 Feb; 66(2):65–7 (Eng. Abstr.) **(Por)**

[Infective endocarditis in 100 patients subjected to heart transplantation] Uip DE, et al. **Arq Bras Cardiol** 1996 Jan; 66(1):1–3 (Eng. Abstr.) **(Por)**

[Evaluation of the quality of life in patients with Chagas' disease undergoing a heart transplant] Amato MS, et al. **Rev Soc Bras Med Trop** 1997 Mar–Apr;30(2):159–60 (Eng. Abstr.) **(Por)**

[Electrophysiologic and electrocardiographic aspects of the transplanted heart] Behulová R, et al. **Bratisl Lek Listy** 1997 May;98(5):248–52 (Eng. Abstr.) **(Slo)**

[Dilated cardiomyopathy and heart transplantation] Fabián J, et al. **Bratisl Lek Listy** 1997 May;98(5):243–7 (Eng. Abstr.) **(Slo)**

[Mitochondrial bioenergetics in patients before and after heart transplantation] Gvozdjáková A, et al. **Bratisl Lek Listy** 1996 Oct;97(10):614–8 (Eng. Abstr.) **(Slo)**

[Coenzyme Q10 and alpha–tocopherol in patients after heart transplantation] Kucharská J, et al. **Bratisl Lek Listy** 1996 Oct;97(10):603–6 (Eng. Abstr.) **(Slo)**

[Quality of life after heart transplantation—psychosocial aspects] Nôtová P, et al. **Bratisl Lek Listy** 1997 May; 98(5):278–83 (Eng. Abstr.) **(Slo)**

[Radical nephrectomy following heart transplantation] Errando Smet C, et al. **Actas Urol Esp** 1997 Mar; 21(3):264–6 (Eng. Abstr.) **(Spa)**

[Heart angiosarcoma and heart transplantation. Report of a case] Almenar L, et al. **Rev Esp Cardiol** 1996 Jul; 49(7):539–41 (Eng. Abstr.) **(Spa)**

[Heart transplantation in a patient with rheumatoid arthritis] Camacho Vázquez C, et al. **Rev Esp Cardiol** 1997 May; 50(5):357–9 (Eng. Abstr.) **(Spa)**

[Orthotopic heart transplantation in a patient with previously undiagnosed persistent left superior vena cava (letter; comment)] Durán Alemán M. **Rev Esp Cardiol** 1997 Feb; 50(2):142. Comment on: Rev Esp Cardiol 1995 May;48(5):362–4. **(Spa)**

[Guideline 7. Intensive treatment of unstable heart failure. Indications for heart transplantation] Navarro–López F, et al. **Rev Esp Cardiol** 1997;50 Suppl 1:44–6 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Allograft aortopathy: an in vivo study of donor aorta involvement in cardiac allograft vasculopathy. Mehra MR, et al. **Am Heart J** 1997 Jun;133(6):698–702

Frequency and characteristics of coronary thrombosis in the epicardial coronary arteries after cardiac transplantation. Arbustini E, et al. **Am J Cardiol** 1996 Oct 1;78(7):795–800

Morphological observations in the epicardial coronary arteries and their surroundings late after cardiac transplantation (allograft vascular disease) [editorial] Arbustini E, et al. **Am J Cardiol** 1996 Oct 1;78(7):814–20

Determinants of transplant–related coronary calcium detected by ultrafast computed tomography scanning. Barbir M, et al. **Am J Cardiol** 1997 Jun 15;79(12):1606–9

Management of the cardiac transplant recipient: roles of the transplant cardiologist and primary care physician. Wagoner LE. **Am J Med Sci** 1997 Sep;314(3):173–84 (110 ref.)

Epstein–Barr virus latent membrane protein–1 oncogene deletion in post–transplantation lymphoproliferative disorders. Scheinfeld AG, et al. **Am J Pathol** 1997 Sep; 151(3):805–12

Ventricular dysrhythmia in the native heart after heterotopic heart transplantation: diagnosis with selective electrocardiography. Housmans PR, et al. **Anesthesiology** 1996 Oct;85(4):936–9

Hemodynamic response to anesthesia and pneumoperitoneum in orthotopic cardiac transplant recipients [see comments] Joshi GP, et al. **Anesthesiology** 1996 Oct;85(4):929–33. Comment in: Anesthesiology 1997 Jun;86(6):1425–7.

Long–term and short–term blood pressure variability in transplanted patients. van de Borne P, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:222–6

Hodgkin's disease following solid organ transplantation. Bierman PJ, et al. **Ann Oncol** 1996 Mar;7(3):265–70 (30 ref.)

Posttransplant lymphoproliferative disease presenting as sudden respiratory arrest in a three–year–old child. Hague K, et al. **Ann Otol Rhinol Laryngol** 1997 Mar;106(3):244–7

Marfanoid aneurysm in donor aorta after transplantation. Pathi VL, et al. **Ann Thorac Surg** 1997 Jun;63(6):1770–1

Elastin receptor and cell–matrix interactions in heart transplant–associated arteriosclerosis. Hinek A. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):15–29 (114 ref.)

Molecular cloning and expression of 56–58 KD antigen associated with transplant coronary artery disease. Ationu A, et al. **Biochem Biophys Res Commun** 1997 Jul 30; 236(3):716–8

Calcitonin, etidronate, and calcidiol treatment in bone loss after cardiac transplantation. Garcia–Delgado I, et al. **Calcif Tissue Int** 1997 Feb;60(2):155–9

Protamine–induced hypotension and bradycardia in a cardiac transplant patient. Backman SB, et al. **Can J Anaesth** 1997 May;44(5 Pt 1):520–4

Coronary artery stenting postcardiac transplant: a report of two cases. Cusick D, et al. **Cathet Cardiovasc Diagn** 1997 Jan;40(1):92–6

Preload–recruitable stroke work relationships and diastolic dysfunction in the brain–dead organ donor. Bittner HB, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II320–5

Predictors of reversibility of pulmonary hypertension in cardiac transplant recipients in the first postoperative year. Chau EM, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II267–72

Evidence for an involvement of the neutrophil integrin lymphocyte function–associated antigen–1 in early failure of heart transplants. Oubenaissa A, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II254–9

Sudden cardiac death in cardiac transplant recipients. Patel VS, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II273–7

Cardiac allograft vasculopathy: a review. Weis M, et al. **Circulation** 1997 Sep 16;96(6):2069–77 (115 ref.)

Osteomyelitis due to Mycobacterium haemophilum in a cardiac transplant patient: case report and analysis of interactions among clarithromycin, rifampin, and cyclosporine. Plemmons RM, et al. **Clin Infect Dis** 1997 May;24(5):995–7

Mechanisms of hypertension in cardiac transplantation and the role of cyclosporine. Ventura HO, et al. **Curr Opin Cardiol** 1997 Jul;12(4):375–81 (43 ref.)

Kaposi's sarcoma as manifestation of immunosuppression in organ transplant recipients. Aebischer MC, et al. **Dermatology** 1997;195(1):91–2

Detection of acute rejection: validation of non–invasive diagnostic tests [editorial; comment] Ballester M. **Eur Heart J** 1997 Jun;18(6):885–6. Comment on: Eur Heart J 1997 Jun;18(6):1024–9.

Left atrial thrombus in heart transplant recipients [letter; comment] Fernández González AL, et al. **Eur Heart J** 1996 Nov;17(11):1756–7. Comment on: Eur Heart J 1995 Jan;16(1):120–5.

Revascularization procedures in patients with transplant coronary artery disease. Patel VS, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):895–901

Gastrointestinal complications after orthotopic cardiac transplantation. Sharma S, et al. **Eur J Cardiothorac Surg** 1996;10(8):616–20

Cyclosporine induces high bone turnover and may contribute to bone loss after heart transplantation. Thiébaud D, et al. **Eur J Clin Invest** 1996 Jul;26(7):549–55

Pulmonary diffusion impairment following heart transplantation: a prospective study [see comments] Egan JJ, et al. **Eur Respir J** 1996 Apr;9(4):663–8. Comment in: Eur Respir J 1997 Jan;10(1):253–4.

Afterload mismatch–related problems after "domino" heart transplantation. Campana C, et al. **G Ital Cardiol** 1997 Jun; 27(6):533–9

Hemodynamics of "domino" heart transplantation. The role of ventriculo–ventricular interaction and after load mismatch [editorial] Yacoub MH. **G Ital Cardiol** 1997 Jun; 27(6):540–3 **(Eng, Ita)**

Prevalence and predictors of depression and anxiety–related disorders during the year after heart transplantation. Dew MA, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):48S–61S

Protective effect of beraprost sodium, a stable prostacyclin analogue, on cardiac allograft vasculopathy in rats. Kurisu Y, et al. **Hiroshima J Med Sci** 1997 Mar;46(1):11–9

Primary graft failure after heart transplantation. Successful recovery with pneumatic biventricular assistance. Fernández AL, et al. **Int J Artif Organs** 1996 May; 19(5):307–10

Fatal concomitant nosocomial Legionnaires' disease and cytomegalovirus pneumonitis after cardiac transplantation [letter] Harbarth S, et al. **Intensive Care Med** 1996 Oct; 22(10):1133–4

Sebaceous hyperplasia in organ transplant recipients: shared aspects of hyperplastic and dysplastic processes? de Berker DA, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):696–9

Bradycardia after heart transplantation: reversal with theophylline [letter; comment] Heinz G. **J Am Coll Cardiol** 1997 Feb;29(2):470–1. Comment on: J Am Coll Cardiol 1996 Aug;28(2):396–9.

Heterogeneity of cardiac allograft vasculopathy: clinical insights from coronary angioscopy. Mehra MR, et al. **J Am Coll Cardiol** 1997 May;29(6):1339–44

Atherosclerosis in transplant heart. Sharada B, et al. **J Assoc Physicians India** 1996 Apr;44(4):269–72 (20 ref.)

Bone loss and turnover after cardiac transplantation. Shane E, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1497–506

Infective dyspepsia in a heart transplant recipient. Huwez FU, et al. **J Gastroenterol** 1996 Dec;31(6):848–50

Fluid homeostasis after heart transplantation: the role of cardiac denervation. Braith RW, et al. **J Heart Lung Transplant** 1996 Sep;15(9):872–80

Diaphragmatic dysfunction after heart or lung transplantation. Dorffner R, et al. **J Heart Lung Transplant** 1997 May;16(5):566–9

A novel mechanism for cyclosporine: inhibition of myocardial ischemia and reperfusion injury in a heterotopic rabbit heart transplant model. Gatewood LB, et al. **J Heart Lung Transplant** 1996 Sep;15(9):936–47

Assessment of early left ventricular remodeling in orthotopic heart transplant recipients with cine magnetic resonance imaging: potential mechanisms. Globits S, et al. **J Heart Lung Transplant** 1997 May;16(5):504–10

Pneumocystis carinii pneumonia in infants after heart transplantation. Janner D, et al. **J Heart Lung Transplant** 1996 Aug;15(8):758–63

Mycotic aortic aneurysms after orthotopic heart transplantation: a three–case report and review of the literature. Knosalla C, et al. **J Heart Lung Transplant** 1996 Aug;15(8):827–39 (27 ref.)

Defining obesity in patients undergoing orthotopic heart transplantation: body mass index versus percent body fat. Leaf DA, et al. **J Heart Lung Transplant** 1997 May; 16(5):563–5

RANTES chemokine expression in transplant–associated accelerated atherosclerosis. Pattison JM, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1194–9

Hypertension in transplant recipients. Singer DR, et al. **J Hum Hypertens** 1996 Jun;10(6):395–402 (67 ref.)

Human cytomegalovirus and acute rejection after heart transplantation are not directly associated. Boriskin YS, et al. **J Med Virol** 1996 Sep;50(1):59–70

Cerebral metastases of an allogenic renal cell carcinoma in a heart recipient without renal cell carcinoma [letter] Meyding–Lamadé U, et al. **J Neurol** 1996 May;243(5):425–7

Prostate cancer transmitted in an orthotopic heart transplant [letter; comment] Kohr RM. **JAMA** 1997 May 7; 277(17):1354; discussion 1355. Comment on: JAMA 1997 Jan 8;277(2):133–7. Comment on: JAMA 1997 Jan 8;277(2):154–5.

Prostate cancer transmitted in an orthotopic heart transplant [letter; comment] Pollack R. **JAMA** 1997 May 7; 277(17):1354; discussion 1355. Comment on: JAMA 1997 Jan 8;277(2):133–7. Comment on: JAMA 1997 Jan 8;277(2):154–5.

Prostate cancer transmitted in an orthotopic heart transplant [letter; comment] Pretorius HT, et al. **JAMA** 1997 May 7;277(17):1355. Comment on: JAMA 1997 Jan 8;277(2):133–7.

Prostate cancer transmitted in an orthotopic heart transplant [letter; comment] Schloerb PR. **JAMA** 1997 May 7; 277(17):1355. Comment on: JAMA 1997 Jan 8;277(2):133–7.

Longitudinal monitoring of latent and active human cytomegalovirus infections in peripheral blood of heart transplant recipients by single–tube nested RT–PCR. Wolff D, et al. **Microbiol Res** 1996 Dec;151(4):343–9

Short–term development of transplant–related coronary artery disease in orthotopic cardiac allograft recipients. Albat B, et al. **Minerva Cardioangiol** 1995 Oct;43(10):435–8

Prevention of graft coronary arteriosclerosis by antisense cdk2 kinase oligonucleotide [see comments] Suzuki J, et al. **Nat Med** 1997 Aug;3(8):900–3. Comment in: Nat Med 1997 Aug;3(8):834–5.

A multilocular B–cell neoplasia presenting as multiple myeloma and polymorphic lymphoma of recipient origin 2 months after kidney transplantation in a heart–transplant recipient. Haas M, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2085–7

Are post–transplant lymphomas inevitable? [editorial] Opelz G. **Nephrol Dial Transplant** 1996 Oct;11(10):1952–5

Late atrioventricular (AV) block and permanent pacemaker implantation after orthotopic cardiac transplantation [letter; comment] Holt ND, et al. **Pacing Clin Electrophysiol** 1996 Aug;19(8):1272. Comment on: Pacing Clin Electrophysiol 1996 Mar;19(3):325–30.

VDD pacing with single lead in a heart transplant recipient: case report. Sanmartín Fernández M, et al. **Pacing Clin Electrophysiol** 1996 Oct;19(10):1522–3

Radiologic–pathologic conference of Children's Hospital Boston: liver nodules after heart transplantation. Medina LS, et al. **Pediatr Radiol** 1997 Jan;27(1):95–7

Antithrombin determinants of coronary artery disease in transplanted human hearts. Labarrere CA, et al. **Semin Hematol** 1995 Oct;32(4 Suppl 2):61–6 (38 ref.)

Increased expression of ICAM–1 in a case of accelerated coronary artery disease after heart transplantation. Ballantyne CM, et al. **Tex Heart Inst J** 1996;23(4):293–5

Outcomes among pediatric heart transplant recipients. Gajarski RJ, et al. **Tex Heart Inst J** 1997;24(2):97–104

Triiodothyronine: spectrum of use in heart transplantation. Jeevanandam V. **Thyroid** 1997 Feb;7(1):139–45 (11 ref.)

Essential initial immunostimulation in graft coronary arteriosclerosis induction detected by retransplantation technique in rats: the participation of T cell subsets. Izutani H, et al. **Transpl Immunol** 1997 Mar;5(1):11–5

Evoked epimyocardial electrogram for rejection diagnosis after heart transplantation. Auer T, et al. **Transpl Int** 1996; 9 Suppl 1:S243–6

Relationship between CMV and graft rejection after heart transplantation. Decoene C, et al. **Transpl Int** 1996;9 Suppl 1:S241–2

Primary bronchogenic carcinoma in recipients of heart transplants. Taniguchi S, et al. **Transpl Int** 1997;10(4):312–6

Phenotypic analysis of lymphocytes infiltrating human cardiac allografts during acute rejection and the development of graft vascular disease. van Besouw NM, et al. **Transpl Int** 1996;9 Suppl 1:S234–6

Valve reconstruction or replacement for long–term biopsy–induced tricuspid regurgitation following heart transplantation. Wahlers T, et al. **Transpl Int** 1996;9 Suppl 1:S247–8

Oxidized LDL, T lymphocytes, and graft atherosclerosis. Caspar–Bauguil S, et al. **Transplant Proc** 1997 Aug; 29(5):2328–9

The role of inflammation in the development of allograft coronary disease. Miller LW. **Transplant Proc** 1997 Sep; 29(6):2583–4 (18 ref.)

Chronic rejection and graft arteriosclerosis: 4 years after the Alexis Carrel proposal on diagnostic criteria. Paul LC, et al. **Transplant Proc** 1997 Sep;29(6):2628–9 (28 ref.)

New insights and therapeutic strategies for postcardiac transplantation coronary artery disease. Rabinovitch M. **Transplant Proc** 1997 Sep;29(6):2585–6 (9 ref.)

Endothelin–1 peptide expression in transplant coronary artery disease. Ravalli S, et al. **Transplant Proc** 1997 Sep; 29(6):2577–8

Inducible nitric oxide synthase is upregulated in human transplant coronary artery disease. Ravalli S, et al. **Transplant Proc** 1997 Sep;29(6):2579–80

Etiological factors influencing the development of atrioventricular valve incompetence after heart transplantation. Sahar G, et al. **Transplant Proc** 1997 Sep; 29(6):2675–6

Nonspecific immune reactivity of peripheral blood mononuclear cells is related to graft vascular disease. van Besouw NM, et al. **Transplant Proc** 1997 Sep;29(6):2544–5

Hepatitis GBV–C viremia in liver, heart, and bone marrow recipients. Zemel R, et al. **Transplant Proc** 1997 Sep; 29(6):2653–4

Clinical presentation and outcome of tuberculosis in kidney, liver, and heart transplant recipients in Spain. Spanish Transplantation Infection Study Group, GESITRA. Aguado JM, et al. **Transplantation** 1997 May 15; 63(9):1278–86 (22 ref.)

Morphometric analysis of neointimal formation in murine cardiac allografts: II. Rate and location of lesion development. Armstrong AT, et al. **Transplantation** 1997 Jul 27;64(2):322–8

Posttransplant lymphoproliferative disease after cardiac transplantation. Two unusual variants with predominantly plasmacytoid features. Fischer T, et al. **Transplantation** 1996 Dec 15;62(11):1687–90

Cardiac allograft vasculopathy: IgM antibody responses to donor–specific vascular endothelium. Hosenpud JD, et al. **Transplantation** 1997 Jun 15;63(11):1602–6

Early onset of pulmonary mucormycosis with pulmonary vein thrombosis in a heart transplant recipient. Muhm M, et al. **Transplantation** 1996 Oct 27;62(8):1185–7

Incidence of adenomatous colorectal polyps in cardiac transplant recipients. Rodriguez–Larrain JM, et al. **Transplantation** 1997 Aug 15;64(3):528–30

[Lung pathology in heart, liver and kidney transplantation in adults] Martel S, et al. **Rev Mal Respir** 1996 Nov;13(5 Suppl):S57–70 (178 ref.) (Eng. Abstr.) **(Fre)**

[Coronary disease in heart transplantation] Gallo P, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):119–22 **(Ita)**

[Hypertension in patients after heart transplantation] Matysek J, et al. **Przegl Lek** 1995;52(11):565–8 (27 ref.) (Eng. Abstr.) **(Pol)**

[Bacterial infections in 100 patients submitted to heart transplantation] Everson Uip D, et al. **Arq Bras Cardiol** 1996 Mar;66(3):135–7 (Eng. Abstr.) **(Por)**

[Infections caused by virus in 100 patients submitted to heart transplantation] Uip DE, et al. **Arq Bras Cardiol** 1996 Apr; 66(4):199–203 (Eng. Abstr.) **(Por)**

[Hematologic aspects of heart transplantation] Goncalvesová E, et al. **Bratisl Lek Listy** 1997 May;98(5):253–7 (Eng. Abstr.) **(Slo)**

[Oral hairy leukoplakia in a patient without human immunodeficiency virus infection (letter)] Adrián Monforte E, et al. **Med Clin (Barc)** 1996 Nov 2;107(15):599 **(Spa)**

[The blood sample as viral marker of cytomegalovirus infection in patients with liver and heart transplantation] Niubó J, et al. **Med Clin (Barc)** 1996 Sep 7;107(7):246–9 (Eng. Abstr.) **(Spa)**

[Mediastinitis following sternotomy: a potential complication of heart transplantation] Bouza E, et al. **Rev Clin Esp** 1995 Oct;195 Spec No:30–6 (73 ref.) **(Spa)**

CONTRAINDICATIONS

Left ventricular assist device infection is associated with increased mortality but is not a contraindication to transplantation. Herrmann M, et al. **Circulation** 1997 Feb 18;95(4):814–7

Role of neuropsychology in evaluation of heart transplant recipients. Davis JM, et al. **Percept Mot Skills** 1996 Jun; 82(3 Pt 1):744–6

ECONOMICS

Clinical outcomes, quality of life, and cost outcomes after cardiac transplantation. Hershberger RE. **Am J Med Sci** 1997 Sep;314(3):129–38

Reimbursement for cardiac rehabilitation services [letter; comment] Wenger NK. **J Am Coll Cardiol** 1997 Feb; 29(2):473. Comment on: J Am Coll Cardiol 1986 Feb;7(2):451–3.

A model for analyzing the cost of main clinical events after cardiac transplantation. Sharples LD, et al. **Transplantation** 1996 Sep 15;62(5):615–21

HISTORY

The history of heart transplantation. Patterson C, et al. **Am J Med Sci** 1997 Sep;314(3):190–7

Christiaan Neethling Barnard (1922–). Davies MK, et al. **Heart** 1997 May;77(5):406

The first human–to–human heart transplant. Dubb A. **Isr J Med Sci** 1996 Oct;32(10):1051

IMMUNOLOGY

Cardiac transplant rejection is associated with a decrease in the high–frequency components of the high–resolution, signal–averaged electrocardiogram. Graceffo MA, et al. **Am Heart J** 1996 Oct;132(4):820–6

Noninvasive diagnosis of cardiac allograft rejection in an orthotopic canine model. Everett JE, et al. **Ann Thorac Surg** 1996 Nov;62(5):1337–40; discussion 1340–1

Antimyosin antibodies in cardiac rejection. Schütz A, et al. **Ann Thorac Surg** 1997 Feb;63(2):578–81 (19 ref.)

Fetal inoculation with donor cells in cardiac xenotransplantation. Shen Z, et al. **Ann Thorac Surg** 1996 Nov;62(5):1360–3

Allogeneic heart transplantation activates alloreactive NK cells. Petersson E, et al. **Cell Immunol** 1997 Jan 10; 175(1):25–32

Analysis of PCR microchimerism induced by intrathymic inoculation of donor alloantigens in rats. Furukawa M, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S75–7

Prolongation of cardiac allograft survival by intraportal injection of donor antigens—differential mechanisms according to the timing of injection. Tanigawa T, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S79–80

Inhibition of transplant coronary arteriosclerosis in rabbits by chronic estradiol treatment is associated with abolition of MHC class II antigen expression. Lou H, et al. **Circulation** 1996 Dec 15;94(12):3355–61

Major histocompatibility complex class II antigen expression in rejecting cardiac allografts: detection using in vivo imaging with radiolabeled monoclonal antibody. McGhie AI, et al. **Circulation** 1997 Sep 2;96(5):1605–11

Autoimmune response in chronic ongoing myocarditis demonstrated by heterotopic cardiac transplantation in mice. Nakamura H, et al. **Circulation** 1996 Dec 15; 94(12):3348–54

Tolerance to cardiac allografts induced in utero with fetal liver cells. Yuh DD, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II304–7

Synergistic mechanisms by which sirolimus and cyclosporin inhibit rat heart and kidney allograft rejection. Stepkowski SM, et al. **Clin Exp Immunol** 1997 Apr;108(1):63–8

Interaction between panel reactive antibodies, auto– and cold reactive antibodies, and a positive B cell cross–match in renal and cardiac allograft survival. Creemers P, et al. **Clin Transplant** 1997 Apr;11(2):134–8

Donor–specific HLA antibodies after transplantation are associated with deterioration in cardiac function. Leech SH, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):639–45

Disproportionate HLA matching may contribute to racial disparity in patient survival following cardiac transplantation. Park MH, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):625–8

New monoclonal antibodies. Costanzo MR. **Curr Opin Cardiol** 1996 Mar;11(2):204–7 (40 ref.)

Recent advances and the potential for clinical use of xenotransplantation. Minanov OP, et al. **Curr Opin Cardiol** 1996 Mar;11(2):214–20 (40 ref.)

Opportunistic infections in the cardiac transplant patient. Thaler SJ, et al. **Curr Opin Cardiol** 1996 Mar;11(2):191–203 (95 ref.)

Induction of tolerance to cardiac allografts. Wood KJ. **Curr Opin Cardiol** 1996 Mar;11(2):208–13 (32 ref.)

Invasive atypical fibroxanthoma and eruptive actinic keratoses in a heart transplant patient. Paquet P, et al. **Dermatology** 1996;192(4):411–3

Treatment of recurrent rejection in heart transplantation: cytolytic therapy or bolus steroids? Hausen B, et al. **Eur J Cardiothorac Surg** 1996;10(10):905–10; discussion 910–1

Autoantibodies to T–cell receptor beta chains in human heart transplantation: epitope and spectrotype analyses and kinetics of response. Marchalonis JJ, et al. **Exp Clin Immunogenet** 1996;13(3–4):181–91

Gene transfer of transforming growth factor–beta 1 prolongs murine cardiac allograft survival by inhibiting cell–mediated immunity. Qin L, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1981–8

Rejection of cardiac allografts by T cells expressing a restricted repertoire of T–cell receptor V beta genes. Shirwan H, et al. **Immunology** 1997 Apr;90(4):572–8

Strong crossreaction of human anti–aprotinin antibodies from heart transplant patient with [Arg15]aprotinin. Brinkmann T, et al. **Immunopharmacology** 1997 Jan;35(3):221–8

Contribution of Fas ligand to cardiac allograft rejection. Seino K, et al. **Int Immunol** 1996 Sep;8(9):1347–54

Indirect recognition of donor HLA–DR peptides in organ allograft rejection. Liu Z, et al. **J Clin Invest** 1996 Sep 1;98(5):1150–7

Paced epimyocardial electrograms for noninvasive rejection monitoring after heart transplantation. Auer T, et al. **J Heart Lung Transplant** 1996 Oct;15(10):993–8

Preventing allograft rejection with CTLA4IG: effect of donor–specific transfusion route or timing. Bolling SF, et al. **J Heart Lung Transplant** 1996 Sep;15(9):928–35

A comparison of the cytology of endomyocardial biopsy washings from heart transplants with biopsy histologic study and peripheral blood lymphocyte counts. Clelland C, et al. **J Heart Lung Transplant** 1997 May;16(5):477–83

Effects of methotrexate on acute rejection and cardiac allograft vasculopathy in heart transplant recipients. Costanzo MR, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):169–78

Successful immunomodulation with intravenous gamma globulin and cyclophosphamide in an alloimmunized heart transplant recipient. De Marco T, et al. **J Heart Lung Transplant** 1997 Mar;16(3):360–5

Donor–derived human leukocyte antigen class I proteins in the serum of heart transplant recipients. DeVito–Hanyes LD, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1012–26

Both L– and D–isomers of allotrap 2702 prolong cardiac allograft survival in mice. Gao L, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):78–87

Effect of single–dose rapamycin–based immunosuppression on the development of cardiac allograft vasculopathy. Goggins WC, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):790–5

Cell–mediated responses to donor endothelium: concerning the concern [letter; comment] Hosenpud JD. **J Heart Lung Transplant** 1997 Jun;16(6):687. Comment on: J Heart Lung Transplant 1996 Aug;15(8):853.

Cytotoxicity of graft–derived lymphocytes: specific for donor heart endothelial cells? Jutte NH, et al. **J Heart Lung Transplant** 1997 Feb;16(2):209–15

Proton magnetic resonance spectroscopy of blood plasma in heart transplant recipients treated with cyclosporine: an early prognosis test of long–term graft tolerance. Le Floch M, et al. **J Heart Lung Transplant** 1997 Apr;16(4):381–6

Experimental and clinical allogeneic heart transplant rejection: correlations between histology and immune reactivity detected by cytokine messenger RNA. Normann SJ, et al. **J Heart Lung Transplant** 1996 Aug;15(8):778–89

Regression of transplant coronary artery disease during chronic low–density lipoprotein–apheresis. Park JW, et al. **J Heart Lung Transplant** 1997 Mar;16(3):290–7

Methotrexate or total lymphoid radiation for treatment of persistent or recurrent allograft cellular rejection: a comparative study. Ross HJ, et al. **J Heart Lung Transplant** 1997 Feb;16(2):179–89

Steroid pretreatment improves graft recovery in a sheep orthotopic heart transplantation model. Segel LD, et al. **J Heart Lung Transplant** 1997 Apr;16(4):371–80

Different immune effects on cardiac allografts and xenografts induced by neonatal intrathymic inoculation with allogeneic and xenogeneic antigens. Shen Z, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1034–8

The avidity, not the mere presence, of primed cytotoxic T–lymphocytes for donor human leukocyte class II antigens determines their clinical relevance after heart transplantation. van Emmerik NE, et al. **J Heart Lung Transplant** 1997 Feb;16(2):240–9

Cytokine messenger RNA expression by donor–specific cytotoxic T–cell clones after allogeneic heart transplantation. Van Hoffen E, et al. **J Heart Lung Transplant** 1997 Feb;16(2):216–21

New–onset diabetes mellitus in pediatric thoracic organ recipients receiving tacrolimus–based immunosuppression. Wagner K, et al. **J Heart Lung Transplant** 1997 Mar; 16(3):275–82

Evaluation of tetrahydropyranyladriamycin as an immunosuppressant in concordant xenotransplantation. Yasutomi M, et al. **J Heart Lung Transplant** 1997 Mar; 16(3):283–9

A rodent model of in utero chimeric tolerance induction. Yuh DD, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):222–30

Abnormal regulation of retinoic acid receptor beta2 expression and compromised allograft rejection in transgenic mice expressing antisense sequences to retinoic acid receptor beta1 and beta3. Bérard J, et al. **J Immunol** 1997 Sep 15;159(6):2586–98

Impaired signaling in alloantigen–specific CD8+ T cells tolerized in vivo: employing a model of Ld–specific TCR transgenic mice transplanted with allogenic hearts under the cover of a short–term rapamycin treatment. Chen H, et al. **J Immunol** 1996 Nov 15;157(10):4297–308

Blocking the CD28–B7 T cell costimulation pathway induces long term cardiac allograft acceptance in the absence of IL–4. Lakkis FG, et al. **J Immunol** 1997 Mar 1; 158(5):2443–8

Type 2 helper T cell–type cytokines and the development of "infectious" tolerance in rat cardiac allograft recipients. Onodera K, et al. **J Immunol** 1997 Feb 15;158(4):1572–81

Induction of "infectious" tolerance to MHC–incompatible cardiac allografts in CD4 monoclonal antibody–treated sensitized rat recipients. Onodera K, et al. **J Immunol** 1996 Sep 1;157(5):1944–50

CD28–B7 T cell costimulatory blockade by CTLA4Ig in sensitized rat recipients: induction of transplantation tolerance in association with depressed cell–mediated and humoral immune responses. Onodera K, et al. **J Immunol** 1997 Aug 15;159(4):1711–7

IL–12 antagonism induces T helper 2 responses, yet exacerbates cardiac allograft rejection. Evidence against a dominant protective role for T helper 2 cytokines in alloimmunity. Piccotti JR, et al. **J Immunol** 1996 Sep 1; 157(5):1951–7

Involvement of laminin and its receptor in abrogation of heart graft rejection by autoreactive T cells from Trypanosoma cruzi–infected mice. Silva–Barbosa SD, et al. **J Immunol** 1997 Jul 15;159(2):997–1003

The role of donor and recipient B7–1 (CD80) in allograft rejection. Zheng XX, et al. **J Immunol** 1997 Aug 1; 159(3):1169–73

Preoperative depletion of C3 improves the survival of guinea pig–to–rat cardiac xenograft recipients. Suh CH, et al. **J Invest Surg** 1997 Jan–Apr;10(1–2):37–40

Prolongation of murine cardiac allograft survival with vesnarinone. Hirozane T, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):67–76

Intracoronary gene transfer of immunosuppressive cytokines to cardiac allografts: method and efficacy of adenovirus–mediated transduction. Brauner R, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1059–66; discussion 1066–7

Induction of tolerance to an experimental cardiac allograft through intrathymic inoculation of class II major histocompatibility complex disparate antigens. Shen Z, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1315–8

Perinatal induction of immunotolerance to cardiac and pulmonary allografts. Yuh DD, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):64–75

New strategy for allotransplantation [editorial] Granstein RD. **Lancet** 1996 Sep 28;348(9031):838–9

Long–term acceptance of major histocompatibility complex–mismatched cardiac allograft induced by a low dose of CTLA4IgM plus FK506. Yamada A, et al. **Microbiol Immunol** 1996;40(7):513–8

Accommodation of vascularized xenografts: expression of "protective genes" by donor endothelial cells in a host Th2 cytokine environment. Bach FH, et al. **Nat Med** 1997 Feb; 3(2):196–204

Costimulatory function and expression of CD40 ligand, CD80, and CD86 in vascularized murine cardiac allograft rejection. Hancock WW, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13967–72

"Autoimmune rejection" of neonatal heart transplants in experimental Chagas disease is a parasite–specific response to infected host tissue. Tarleton RL, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3932–7

CD28 blockade alters cytokine mRNA profiles in cardiac transplantation. Lin H, et al. **Surgery** 1997 Aug; 122(2):129–37

Effect of anti–intercellular adhesion molecule–1 and anti–leukocyte function associated antigen–1 monoclonal antibodies on rat–to–mouse cardiac xenograft rejection. Miwa S, et al. **Surgery** 1997 Jun;121(6):681–9

Tolerance to heart and kidney grafts induced by nondepleting anti–CD4 monoclonal antibody (RIB 5/2) versus depleting anti–CD4 monoclonal antibody (OX–38) with donor antigen administration. Motoyama K, et al. **Surgery** 1997 Aug;122(2):213–9; discussion 219–20

Pharmacodynamic monitoring of mycophenolic acid in rabbit heterotopic heart transplant model. Langman LJ, et al. **Ther Drug Monit** 1997 Apr;19(2):146–52

Tonsillar carcinoma in the early postoperative course following heart transplantation. Gummert JF, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):355–7

Analysis of effector mechanisms in murine cardiac allograft rejection. Alexander DZ, et al. **Transpl Immunol** 1996 Mar; 4(1):46–8

Anti–cell surface endothelial antibodies in sera from cardiac and kidney transplant recipients: association with chronic rejection. Ferry BL, et al. **Transpl Immunol** 1997 Mar; 5(1):17–24

Essential initial immunostimulation in graft coronary arteriosclerosis induction detected by retransplantation technique in rats: the participation of T cell subsets. Izutani H, et al. **Transpl Immunol** 1997 Mar;5(1):11–5

The effect of MX–1 on survival of discordant cardiac xenografts from guinea pig to rat. Kaji H, et al. **Transpl Immunol** 1997 Mar;5(1):70–2

Identification of two types of autoreactive T lymphocyte clones cultured from cardiac allograft–infiltrating cells incubated with recombinant mycobacterial heat shock

protein 71. Liu K, et al. **Transpl Immunol** 1997 Mar; 5(1):57–65

Moderate additive immunosuppressive effect of thalidomide combined with cyclosporin A in rat cardiac transplantation. Ostraat O, et al. **Transpl Immunol** 1996 Sep;4(3):241–6

Thalidomide prolonged graft survival in a rat cardiac transplant model but had no inhibitory effect on lymphocyte function in vitro. Ostraat O, et al. **Transpl Immunol** 1996 Jun;4(2):117–25

Immunosuppressive effect of a new drug, FTY720, on lymphocyte responses in vitro and cardiac allograft survival in rats. Suzuki S, et al. **Transpl Immunol** 1996 Sep; 4(3):252–5

Strain-dependent differences in prolongation of rat cardiac allograft survival after intrathymic injection of donor bone marrow and ALS treatment. Walker KG, et al. **Transpl Immunol** 1996 Jun;4(2):177–9

Treatment with monoclonal antibodies to ICAM-1 and LFA-1 in rat heart allograft rejection. Brandt M, et al. **Transpl Int** 1997;10(2):141–4

The induction of operational tolerance is not prevented by simultaneous administration of cyclosporin A1. Hamano K, et al. **Transpl Int** 1997;10(4):293–8

HLA-DR matching reduces rejection rate in heart transplantation. Leivestad T, et al. **Transpl Int** 1996;9 Suppl 1:S230–3

Suppressed alloreactivity and mixed chimerism in rats with accepted cardiac allografts by intrathymic injection of donor bone marrow cells. Matsuura T, et al. **Transpl Int** 1997;10(4):262–7

Total lymphoid irradiation, without intrathymic injection of donor cells, induces indefinite acceptance of heart but not islet or skin allografts in rats. Papalois BE, et al. **Transpl Int** 1996;9 Suppl 1:S372–8

Anti-integrin (LFA-1, VLA-4, and Mac-1) antibody treatment and acute cardiac graft rejection in the rat. Paul LC, et al. **Transpl Int** 1996;9(4):420–5

Both CD45RC+ and negative CD4+ suppressor cells are present in the rat cardiac allograft LF 08-0299-induced tolerance model. Andoins C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1282–4

Reversal of CTLA4Ig-mediated tolerance to cardiac allografts by exogenous interleukin-2. Arima T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1305–6

Steroid resistance in clinical heart transplantation: the role of simultaneous IL-2 and IL-4 mRNA expression. Baan CC, et al. **Transplant Proc** 1996 Dec;28(6):3239–40

Comparison between two strategies for rejection detection after heart transplantation: routine endomyocardial biopsy versus gallium-67 cardiac imaging. Bocchi EA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):586–8

T10B9 action: the effect of anti-T-cell antibody mitogenicity and graft rejection on the first dose cytokine response. Brown S, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):315–6

Comparison of cyclosporine monitoring with trough levels to levels obtained 6 hours after the morning dose in heart transplant patients: a prospective randomized study. Cantarovich M, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):602–4

Leflunomide abrogates accelerated heart allograft rejection in presensitized rats. Cheung A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1294–5

Induction of transplant tolerance by intrathymic inoculation of synthetic MHC class I allopeptides. Chowdhury NC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1136

Distinct fibronectin splicing variants: potential targets for therapeutic immunomodulation in organ allograft recipients. Coito AJ, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1060–1

Self-MHC restricted T cells specific for donor peptides infiltrate human grafts during rejection. Colovai AI, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1509–10

High interleukin-12 p40 mRNA expression in tolerant heart allografts in recipient rats treated by donor-specific transfusion. Cuturi MC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1170

Overcoming rejection in pig-to-primate cardiac xenotransplantation. Davis EA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):938–9

An in vitro model for studying the role of graft endothelial cells in rat heart allograft rejection: a study of the regulation and function of heart endothelial histocompatibility antigens and cell adhesion molecules. Derhaag JG, et al. **Transplant Proc** 1997 May;29(3):1717–8

The time pattern of organ infiltration and distribution of natural killer cells and macrophages in the course of acute graft rejection after allogeneic heart transplantation in the rat. Dresske B, et al. **Transplant Proc** 1997 May; 29(3):1715–6

Impact of natural killer cells and macrophages on the course of acute graft rejection following allogeneic heart transplantation in the rat. Dresske B, et al. **Transplant Proc** 1996 Dec;28(6):3259–60

The relationship of blood transfusion and immunosuppression to the Th1/Th2 paradigm. Frede SE, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1153–4

Costimulatory molecule-deficient dendritic cell progenitors induce T cell hyporesponsiveness in vitro and prolong the survival of vascularized cardiac allografts. Fu F, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1310

Selective immunosuppression induces tolerance after liver transplantation: an immunohistochemical and cytofluorographic analysis of the graft and recipient immune system. Gassel HJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1163

SP100030 is a novel T-cell-specific transcription factor inhibitor that possesses immunosuppressive activity in vivo. Goldman ME, et al. **Transplant Proc** 1996 Dec;28(6):3106–9

Effect of portal vein injection of allo-MHC-transfected hepatocytes on immunity prior to organ transplantation. Graeb C, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1017–9

Noninvasive monitoring of rejection therapy based on intramyocardial electrograms after orthotopic heart transplantation. Grasser B, et al. **Transplant Proc** 1996 Dec; 28(6):3276–7

Synergistic interaction between castanospermine and tacrolimus in a rat heart allograft model. Grochowicz PM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1259–60

Different response of intestinal and cardiac allografts to pretreatment with UV-B irradiated donor-specific leukocytes (DL) or DL alone. Gundlach M, et al. **Transplant Proc** 1996 Oct;28(5):2482–3

Allograft rejection and corticosteroids in acute pancreatitis following renal and cardiac transplantation. Hagopian EJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):583

MHC expression in organ transplants: lessons from the knock-out mice. Halloran PF, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1041–4

Dominant infiltration by TH2 cells into grafts following treatment with anti-CD4 monoclonal antibody. Hamano K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1053

Conversion from regular cyclosporine to microemulsion cyclosporine following heart transplantation. Heroux AL, et al. **Transplant Proc** 1996 Dec;28(6):3145–8

Castanospermine, an oligosaccharide-processing inhibitor, reduces membrane expression of adhesion molecules and prolongs heart allograft survival in rats. Hibberd AD, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1257–8

Role of cell surface molecules in tolerance induction after intrathymic injection of donor splenocytes. Hirano T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1072

Frequency and clinical correlations of allogeneic microchimerism after heart, liver, and lung transplantation. Hisanaga M, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1215–7

Influence of donor/recipient phenotype and degree of HLA mismatch on the development of transplant-associated coronary artery disease in heart transplant patients. Hornick P, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1420–1

Effect of variable doses of antilymphocyte serum on T cell depletion and cardiac allograft survival. Hylkema MN, et al. **Transplant Proc** 1997 May;29(3):1719–20

CTLA4Ig inhibits alloantibody responses to transfusions and transplants. Ibrahim S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1025

Treatment of murine cardiac allograft by monoclonal antibodies to IL-2 receptor alpha chain and beta chain. Isobe M, et al. **Transplant Proc** 1997 Jun;29(4):2301–2

A unique mechanism of tolerance by perioperative intrathymic injection of bone marrow cells with a short course of ALS and FK506 in the rat cardiac allograft model. Ito A, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1137–8

Bidirectional blockade of CD4 and MHC class II molecules is an effective immunosuppressive treatment. Ito H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1288–9

Recipient macrophage depletion reduces the severity of graft coronary arteriosclerosis in the rat retransplantation model. Izutani H, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):861–2

Humoral mechanism of split tolerance to lymphocyte and heart allografts after donor-specific transfusion. Jasklowska-Englisz M, et al. **Transplant Proc** 1997 Jun; 29(4):2185–6

Mechanisms of recombinant IFN gamma-induced acute heart allograft rejection in recipient rats made tolerant to donors by pre-graft donor-specific blood transfusion. Josien R, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1055–6

A new serum protein (KX-5) induced by liver transplantation suppresses heart allograft rejection in nonspecific manner. Kamada N, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1271

Sole immunosuppressive maintenance with cyclosporine A after heart transplantation. Koerner MM, et al. **Transplant Proc** 1996 Dec;28(6):3119–21

The effects of CD26/DPP IV-targeted therapy on acute allograft rejection. Korom S, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1274–5

High-dose cellular IL-10 exacerbates rejection and reverses effects of cyclosporine and tacrolimus in Mouse cardiac transplantation. Li W, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1081–2

Use of methylxanthines (MeXa) as immunosuppressive drugs for organ transplantation. Lin Y, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1279

Progressive change in tolerance mechanisms after withdrawing combination immunosuppression with cyclosporine and rapamycine or leflunomide. Lin Y, et al. **Transplant Proc** 1996 Dec;28(6):3159

Xanthines: ideal immunosuppressants for combination with cyclosporine? Lin Y, et al. **Transplant Proc** 1996 Dec; 28(6):3102

Route of administration determines the efficacy of rapamycin but not the mechanisms of tolerance induced by it in rats. Lin Y, et al. **Transplant Proc** 1996 Dec;28(6):3057

Efficacy of the malononitrilamide X 920715 as compared with leflunomide in cardiac allo- and xenotransplantation in rats. Lin Y, et al. **Transplant Proc** 1996 Dec;28(6):3036

Cyclosporine control of recipient lymphocyte traffic to the heart allograft. Maksymowicz M, et al. **Transplant Proc** 1996 Dec;28(6):3441–3

Importance of the CD28/B7 costimulatory pathway in the development of chronic ductopenic rejection in a new model of orthotopic rat liver allotransplantation. Mark W, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1029

Immunobiology of delayed xenograft rejection. Marquet RL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):955–6

HLA-DR matching defined by DNA typing in heart transplantation. Mascaretti L, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1464–6

Serum interleukin-6 level after cardiac xenotransplantation in primates. Matsumiya G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):916–9

Tacrolimus (FK506) proves superior to OKT3 for treating episodes of persistent rejection following intrathoracic transplantation. Meiser BM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):605–6

Neonatal bone fragments for the induction of xenograft acceptance: transplantation of xenogeneic hematopoietic stem cells and species-specific microenvironment for hematopoiesis. Murase N, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1201

Prolongation of cardiac allograft survival in rats following combination treatment with 2-chloro-2'-deoxyadenosine and cyclosporine: a novel immunosuppressive strategy. Nawrocki G, et al. **Transplant Proc** 1996 Dec;28(6):3538–9

Small, resting B cells induce prolonged survival of cardiac allografts mismatched for single minor, but not multiple minor, single major, or multiple major and minor histocompatibility antigens. Niimi M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1171

Different mechanisms of rejection of organ and cell allografts. Olszewski WL, et al. **Transplant Proc** 1996 Dec; 28(6):3444–6

Th2-type cytokines in the "infectious" tolerance pathway. Onodera K, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1290–1

CD4-targeted therapy induces "infectious" tolerance to cardiac allografts in sensitized rat recipients. Onodera K, et al. **Transplant Proc** 1997 May;29(3):1907–8

Critical evaluation of the association of acute with chronic graft rejection in kidney and heart transplant recipients. The Collaborative Transplant Study. Opelz G. **Transplant Proc** 1997 Feb-Mar;29(1-2):73–6

Intrathymic microchimerism predicts rejection response in allograft recipients. Ota H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1214

The impact of race and HLA matching on long-term survival following cardiac transplantation. Park MH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1460–3

Does endotoxin accelerate rejection in a cardiac allograft model? Pirenne J, et al. **Transplant Proc** 1996 Oct; 28(5):2463–4

Effect of HLA on early follow-up in heart transplants. Rementeria C, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1469

Cyclosporine neoral monitoring and its correlation with the "area under the curve". Sabbatiello R, et al. **Transplant Proc** 1996 Dec;28(6):3378

Donor pretreatment with methylprednisolone synergistically prolongs survival of cardiac allografts in sensitized rat recipients conditioned with rapamycin. Schmidbauer G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):607–8

Intrathymic spleen cell inoculation and ALS fails to induce tolerance to rat pancreas allografts. Schulak JA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1070–1

Does early steroid withdrawal influence rejection and infection episodes during the first 2 years after heart transplantation? Seydoux C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):620–4

Tolerance to a second donor-matched allograft following local immune modulation using transfer of sequences encoding CTLA4Ig. Shaked A, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1026

Role of a limited T-cell receptor V beta repertoire in alloantigen recognition and allograft rejection. Shirwan H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1050–1

The role of donor class I major histocompatibility complex peptides in the induction of allograft tolerance. Shirwan H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1134–5

Recipient-donor microchimerism is not a prerequisite for the maintenance of allograft tolerance. Shirwan H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1182–3

Prospective HLA matching is feasible in thoracic organ transplantation. Smith J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1467–8

Intrathymic immunomodulation of sensitized rat recipients of cardiac allografts: requirements for allorecognition pathways. Stadlbauer TH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1016

Antisense ICAM-1 oligonucleotides block allograft rejection in rats. Stepkowski SM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1285

Localization of tolerogenic epitopes in the alpha 1 helical region of the rat class I major histocompatibility complex molecule. Stepkowski SM, et al. **Transplant Proc** 1997 May; 29(3):1663–4

Indirect T-cell recognition in human allograft rejection. Suciu-Foca N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2/01):1012–3

Quantity of donor tissue and rat allograft survival. Sun J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1143–4

Early diagnosis of cardiac rejection by in situ detection of nonmuscle myosin heavy chain transcription. Suzuki J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1512

Donor-specific transfusion using mitomycin-C treated spleen cells induces significant prolongation of cardiac allograft in rats. Tanigawa T, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1149–50

Effectiveness of bactobolamine as a new immunosuppressive agent. Tomikawa S, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1276–8

Effects of intrathymic tolerance on mouse heart and skin allograft acceptance. Tu Y, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1063–4

Donor-specific transfusion in the nude rat prolongs survival of subsequently transplanted hamster cardiac xenografts. Valdivia LA, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):928–9

CsA therapy affects the direct and indirect antigen-presentation pathway in cardiac allograft recipients. van Besouw NM, et al. **Transplant Proc** 1996 Dec;28(6):3135–6

Induction of donor-specific tolerance by chimeric class I MHC molecules bearing donor alpha 1 helical amino acids. Wang M, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1224–5

Rapamycin and cyclosporine A treatment: a novel regimen to prevent chronic allograft rejection in sensitized hosts. Wasowska B, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):333

Pig-to-primate cardiac xenotransplantation and cyclophosphamide therapy. Waterworth PD, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):899–900

Syngeneic bone marrow cells expressing a single donor class I MHC molecule are more effective at inducing tolerance than donor bone marrow cells. Wong W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1131

Retroviral gene transfer of a donor class I MHC gene to recipient bone marrow cells induces tolerance to alloantigens in vivo. Wong W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1130

Genetic evidence that the antibody response to xenografts is directed at a restricted number of target antigens. Wu GD, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):954

Hematopoietic reconstitution by transplanted grafts in lethally irradiated recipients. Ye Q, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1202

The shift of Th1/Th2 ratios induced by portal venous administration of UVB-treated donor spleen cells prolonged mouse cardiac allografts. Yu S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1162

Prevention of heart allograft and kidney xenograft rejection by monoclonal antibody to CD45RB. Zhang Z, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1253

Tolerance in a rat cardiac allograft model after short-term treatment with LF 08-0299. Absence of clonal deletion and evidence of CD4+ suppressor cells. Andoins C, et al. **Transplantation** 1996 Dec 15;62(11):1543–9

Induction of donor specific transplantation tolerance to cardiac allografts following treatment with nondepleting (RIB 5/2) or depleting (OX-38) anti-CD4 mAb plus intrathymic or intravenous donor alloantigen. Arima T, et al. **Transplantation** 1997 Jan 27;63(2):284–92

Lack of cognate help by CD4+ T cells and anergy of CD8+ T cells are the principal mechanisms for anti-leukocyte function-associated antigen-1/intercellular adhesion molecule-1-induced cardiac allograft tolerance. Bashuda H, et al. **Transplantation** 1997 Jan 15;63(1):113–8

Apoptosis in murine cardiac grafts. Bergese SD, et al. **Transplantation** 1997 Jan 27;63(2):320–5

T cell independence of macrophage and natural killer cell infiltration, cytokine production, and endothelial activation during delayed xenograft rejection. Candinas D, et al. **Transplantation** 1996 Dec 27;62(12):1920–7

Immunomodulatory effects of the alkaloid sinomenine in the high responder ACI-to-Lewis cardiac allograft model. Candinas D, et al. **Transplantation** 1996 Dec 27; 62(12):1855–60

Cytokines and rejection of mouse cardiac allografts. Carlquist JF, et al. **Transplantation** 1996 Oct 27;62(8):1160–6

T-cell costimulatory blockade in experimental chronic cardiac allograft rejection: effects of cyclosporine and donor antigen. Chandraker A, et al. **Transplantation** 1997 Apr 27;63(8):1053–8

Amplification of natural regulatory immune mechanisms for transplantation tolerance. Chen ZK, et al. **Transplantation** 1996 Nov 15;62(9):1200–6

Acquired systemic tolerance to rat cardiac allografts induced by intrathymic inoculation of synthetic polymorphic MHC class I allopeptides. Chowdhury NC, et al. **Transplantation** 1996 Dec 27;62(12):1878–82

Inhibition of complement, evoked antibody, and cellular response prevents rejection of pig-to-primate cardiac xenografts. Davis EA, et al. **Transplantation** 1996 Oct 15; 62(7):1018–23

Expression of chemokine genes during rejection and long-term acceptance of cardiac allografts. Fairchild RL, et al. **Transplantation** 1997 Jun 27;63(12):1807–12

Costimulatory molecule-deficient dendritic cell progenitors (MHC class II+, CD80dim, CD86-) prolong cardiac allograft survival in nonimmunosuppressed recipients. Fu F, et al. **Transplantation** 1996 Sep 15;62(5):659–65

Induction of transplantation tolerance by chimeric donor/recipient class I RT1.Aa molecules. Ghobrial RR, et al. **Transplantation** 1996 Oct 15;62(7):1002–10

Expression of cytokine messenger RNA after heart transplantation: relationship with rejection and serum cytokines. Grant SC, et al. **Transplantation** 1996 Oct 15; 62(7):910–6

Evidence that the continued presence of the organ graft and not peripheral donor microchimerism is essential for maintenance of tolerance to alloantigen in vivo in anti-CD4 treated recipients. Hamano K, et al. **Transplantation** 1996 Sep 27;62(6):856–60

Effects of leflunomide and deoxyspergualin in the guinea pig-->rat cardiac model of delayed xenograft rejection: suppression of B cell and C-C chemokine responses but not induction of macrophage lectin. Hancock WW, et al. **Transplantation** 1997 Sep 15;64(5):696–704

Effect of graft preservation and IgM depletion on guinea pig to rat cardiac xenograft survival. Hori S, et al. **Transplantation** 1997 Jun 15;63(11):1554–61

Donor-specific tolerance by perioperative intrathymic injection of bone marrow cells in the rat cardiac allograft model: use of FK506 can shorten the necessary duration of pretransplant intrathymic conditioning. Ito A, et al. **Transplantation** 1997 Sep 15;64(5):752–7

Successful retransplantation of mouse-to-rat cardiac xenografts under immunosuppressive monotherapy with cyclosporine. Johnsson C, et al. **Transplantation** 1997 Mar 15;63(5):652–6

Role of Fc fragments in inhibition of xenogenic hyperacute rejection by intravenous immunoglobulin. Kojima T, et al. **Transplantation** 1996 Sep 15;62(5):559–62

Inhibition of CD26/dipeptidyl peptidase IV activity in vivo prolongs cardiac allograft survival in rat recipients. Korom S, et al. **Transplantation** 1997 May 27;63(10):1495–500

Apyrase administration prolongs discordant xenograft survival. Koyamada N, et al. **Transplantation** 1996 Dec 27; 62(12):1739–43

Coexistence of Th1- and Th2-type cytokine profiles in anti-CD2 monoclonal antibody-induced tolerance. Krieger NR, et al. **Transplantation** 1996 Nov 15;62(9):1285–92

Factors involved in rejection of concordant xenografts in complement-deficient rats. Lin Y, et al. **Transplantation** 1997 Jun 27;63(12):1705–12

Targeting of antihapten antibodies to activated T cells via an IL-2-hapten conjugate prolongs cardiac graft survival. Lussow AR, et al. **Transplantation** 1996 Dec 27; 62(12):1703–8

Serologic allogeneic chimerism. McDonald JC, et al. **Transplantation** 1997 Sep 27;64(6):865–71

Utilization of intravenous immunoglobulin to ameliorate alloantibodies in a highly sensitized patient with a cardiac assist device awaiting heart transplantation. Fluorescence-activated cell sorter analysis. McIntyre JA, et al. **Transplantation** 1996 Sep 15;62(5):691–3

Anti-GaL IgG antibodies in sera of newborn humans and baboons and its significance in pig xenotransplantation. Minanov OP, et al. **Transplantation** 1997 Jan 27;63(2):182–6

Interleukin (IL) 4, the cytokine that isn't there: reactivity of IL-4 antibodies with cells in IL-4 -/- mice. Mottram PL, et al. **Transplantation** 1997 Mar 27;63(6):911–4

Synthetic MHC class I peptide prolongs cardiac survival and attenuates transplant arteriosclerosis in the Lewis-->Fischer 344 model of chronic allograft rejection. Murphy B, et al. **Transplantation** 1997 Jul 15;64(1):14–9

Long-term survival of solid organ allografts by brief anti-lymphocyte function-associated antigen-1 monoclonal antibody monotherapy. Nakakura EK, et al. **Transplantation** 1996 Sep 15;62(5):547–52

Prolonged murine cardiac allograft acceptance: characteristics of persistent active alloimmunity after treatment with gallium nitrate versus anti-CD4 monoclonal antibody. Orosz CG, et al. **Transplantation** 1997 Apr 27; 63(8):1109–17

Nitric oxide synthase inhibition is associated with decreased survival of cardiac allografts in the rat. Paul LC, et al. **Transplantation** 1996 Oct 27;62(8):1193–5

Effect of continuous complement inhibition using soluble complement receptor type 1 on survival of pig-to-primate cardiac xenografts. Pruitt SK, et al. **Transplantation** 1997 Mar 27;63(6):900–2

Systemic administration of cellular interleukin-10 can exacerbate cardiac allograft rejection in mice. Qian S, et al. **Transplantation** 1996 Dec 27;62(12):1709–14

Acute rejection of vascularized heart allografts in the absence of IFNgamma. Saleem S, et al. **Transplantation** 1996 Dec 27;62(12):1908–11

Factors contributing to the development of chronic rejection in heterotopic rat heart transplantation. Schmid C, et al. **Transplantation** 1997 Jul 27;64(2):222–8

Prevention of hyperacute rejection by human decay accelerating factor in xenogeneic perfused working hearts. Schmoeckel M, et al. **Transplantation** 1996 Sep 27; 62(6):729–34

Prolongation of murine vascularized heart allograft survival by recipient-specific anti-major histocompatibility complex class II antibody. Smith RM, et al. **Transplantation** 1997 Aug 15;64(3):525–8

Effects of the pharmacokinetic interaction between orally administered sirolimus and cyclosporine on the synergistic prolongation of heart allograft survival in rats. Stepkowski SM, et al. **Transplantation** 1996 Oct 15;62(7):986–94

Murine interleukin 4 transgenic heart allograft survival prolonged with down-regulation of the Th1 cytokine mRNA in grafts. Takeuchi T, et al. **Transplantation** 1997 Jul 15;64(1):152–7

Effect of anticomplement agent K76 COOH on hamster-to-rat and guinea pig-to-rat heart xenotransplantation. Tanaka M, et al. **Transplantation** 1996 Sep 15;62(5):681–8

Human leukocyte antigen compatibility in heart transplantation: evidence for a differential role of HLA matching on short- and medium-term patient survival. Taylor CJ, et al. **Transplantation** 1997 May 15; 63(9):1346–51

New strategies for early diagnosis of heart allograft rejection. Tugulea S, et al. **Transplantation** 1997 Sep 27;64(6):842–7

Cytokine gene polymorphism and heart transplant rejection. Turner D, et al. **Transplantation** 1997 Sep 15;64(5):776–9

Donor-specific cytokine production by graft-infiltrating lymphocytes induces and maintains graft vascular disease in human cardiac allografts. van Besouw NM, et al. **Transplantation** 1997 May 15;63(9):1313–8

Effect of HLA-DR-shared blood transfusion on the clinical outcome of heart transplantation. van der Mast BJ, et al. **Transplantation** 1997 May 27;63(10):1514–9

Inability of serum myocyte death markers to predict acute cardiac allograft rejection. Wang CW, et al. **Transplantation** 1996 Dec 27;62(12):1938–41

Pretransplant administration of a single donor class I major histocompatibility complex molecule is sufficient for the indefinite survival of fully allogeneic cardiac allografts: evidence for linked epitope suppression. Wong W, et al. **Transplantation** 1997 May 27;63(10):1490–4

Syngeneic bone marrow expressing a single donor class I MHC molecule permits acceptance of a fully allogeneic cardiac allograft. Wong W, et al. **Transplantation** 1996 Nov 27;62(10):1462–8

Immunosuppression by inhibition of cellular adhesion mediated by leukocyte function-associated antigen-1/intercellular adhesion molecule-1 in murine cardiac transplantation. Xu XY, et al. **Transplantation** 1997 Mar 27;63(6):876–85

Effect of anti-CD4 monoclonal antibody combined with human CTLA4Ig on the survival of hamster liver and heart xenografts in Lewis rats. Yin DP, et al. **Transplantation** 1997 Jul 27;64(2):317–21

Effects of vesnarinone, a novel orally active inotropic agent with an immunosuppressive action, on experimental cardiac transplantation in rats. Yokoyama H, et al. **Transplantation** 1996 Dec 15;62(11):1540–3

[Pneumococcal vaccination following transplantation (letter)] Siegmund JB. **Dtsch Med Wochenschr** 1997 Sep 12; 122(37):1131 **(Ger)**

[Importance of the "immunosuppressive window" for induction of long-term organ acceptance exemplified by heterotopic allogenic heart transplantation in the rat model] Dresske B, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:181–5 (Eng. Abstr.) **(Ger)**

[Donor-specific tolerance induction by allopeptide immunization: an animal experiment study exemplified by allogenic heart transplantation in the rat model] Fändrich F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:719–24 (Eng. Abstr.) **(Ger)**

[Effect of omega-3 enriched lipid emulsions on experimental graft rejection] Grimm H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:173–9 (Eng. Abstr.) **(Ger)**

[Mechanisms of accommodation in heart xenotransplants of hamster to rat] Hechenleitner P, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:187–90 (Eng. Abstr.) **(Ger)**

[Effect of lung transplantation of survival time of heart transplants in the xenogenic, discordant guinea pig-rat model] Kelm C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:539–43 (Eng. Abstr.) **(Ger)**

[Effect of specific CD26/dipeptidylpeptidase IV (DPP IV) inhibition on acute transplant rejection and immune response in allotransplant recipients] Korom S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:191–4 (Eng. Abstr.) **(Ger)**

[CD28/B7--an elementary, co-stimulatory signal of T-cell activation after orthotopic liver transplantation] Mark W, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:299–302 (Eng. Abstr.) **(Ger)**

[Intrathymic immunomodulation brings about a therapeutic window for systemic administration of CTLA4Ig in a model of accelerated rejection] Stadlbauer TH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:195–9 (Eng. Abstr.) **(Ger)**

[Differential acute graft rejection and infection diagnosis with procalcitonin and cytokines] Staehler M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:205–9 (Eng. Abstr.) **(Ger)**

[Intramyocardial electrocardiogram (IMEG) in diagnosis of humoral rejection after heart transplantation] Grauhan O, et al. **Z Kardiol** 1996 Oct;85(10):745–52 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Successful bridge to retransplantation with the wearable Novacor left ventricular assist system. Jacquet L, et al. **J Heart Lung Transplant** 1996 Jun;15(6):620–2

LEGISLATION & JURISPRUDENCE

Pig heart transplant surgeon held in jail [news] Jayaraman KS. **Nature** 1997 Jan 30;385(6615):378

Should a criminal receive a heart transplant? Medical justice vs. societal justice. Schneiderman LJ, et al. **Theor Med** 1996 Mar;17(1):33–44

METHODS

Ventricular assist devices as a bridge to cardiac transplantation. A prelude to destination therapy. Holman WL, et al. **Ann Surg** 1997 Jun;225(6):695–704; discussion 705–6

Influence of bicaval anastomoses on late occurrence of atrial arrhythmia after heart transplantation. Brandt M, et al. **Ann Thorac Surg** 1997 Jul;64(1):70–2

Intravenous phenylephrine preconditioning of cardiac grafts from non-heart-beating donors. Cope JT, et al. **Ann Thorac Surg** 1997 Jun;63(6):1664–8

Significance of raised natriuretic peptides after bicaval and standard cardiac transplantation. El Gamel A, et al. **Ann Thorac Surg** 1997 Apr;63(4):1095–100

Modified technique for heterotopic heart transplantation in small primates. Minanov OP, et al. **Ann Thorac Surg** 1997 Jan;63(1):258–60

Management of patients with a cardiac transplant. Broomhead C. **Br J Hosp Med** 1995 Dec 13–1996 Jan 16; 54(11):571–3 (5 ref.)

Surgically denervated cardiac transplant. Rewired or permanently unplugged? [editorial; comment] Mancini D. **Circulation** 1997 Jul 1;96(1):6–8. Comment on: Circulation 1997 Jul 1;96(1):232–7.

Eliminating bradyarrhythmias after orthotopic heart transplantation. Rothman SA, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II278–82

Cardiac xenotransplantation. Artrip JH, et al. **Curr Opin Cardiol** 1997 Mar;12(2):172–8 (47 ref.)

Radical alternatives to transplantation. Starling RC. **Curr Opin Cardiol** 1997 Mar;12(2):166–71 (22 ref.)

Resting hemodynamics after total versus standard orthotopic heart transplantation in patients with high preoperative pulmonary vascular resistance. Aleksic I, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1037–44

Excellent outcome of cardiac transplantation using domino donor hearts. Smith JA, et al. **Eur J Cardiothorac Surg** 1996;10(8):628–33

Risk of left ventricular assist device as a bridge to heart transplant following postinfarction ventricular septal rupture. Kshettry VR, et al. **J Card Surg** 1997 Mar–Apr; 12(2):93–7

Orthotopic heart transplantation for dilated cardiomyopathy in a patient with persistent left superior vena cava and atresia of the right superior vena cava. Argüero R, et al. **J Cardiovasc Surg (Torino)** 1997 Aug;38(4):403–5

Surgical and arteriographic results of bronchial artery revascularization in lung and heart lung transplantation. Nørgaard MA, et al. **J Heart Lung Transplant** 1997 Mar; 16(3):302–12

Combined orthotopic heart and liver transplantation for genetic hemochromatosis. Surakomol S, et al. **J Heart Lung Transplant** 1997 May;16(5):573–5

Clinical experience with one hundred consecutive patients undergoing orthotopic heart transplantation with bicaval and pulmonary venous anastomoses. Trento A, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1496–502; discussion 1502–3

Mycophenolate mofetil, azathioprine and cyclophosphamide enhanced efficacy combined with cyclosporine in rat cardiac transplantation. Ostraat O, et al. **Scand J Immunol** 1997 Apr;45(4):343–8

Adenovirus-mediated gene transfer using ex vivo perfusion of the heart graft. Shiraishi M, et al. **Surg Today** 1996; 26(8):624–8

Orthotopic heart transplantation with bicaval anastomosis. Grande AM, et al. **Tex Heart Inst J** 1996;23(4):310–11

Resting hemodynamics after total versus standard orthotopic heart transplantation. Aleksic I, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):193–8

Advantages of inferior vena caval flow preservation in combined transplantation of the liver and heart. Detry O, et al. **Transpl Int** 1997;10(2):150–1

Chronic linkage after heterotopic heart transplantation. Morris-Thurgood J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):580

[A comparative study of standard and total orthotopic cardiac transplantation] Métras D, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):27–34 (Eng. Abstr.) **(Fre)**

[Heart-kidney transplantation of the same donor following failure of a first renal transplantation due to chronic rejection] Seydoux C, et al. **Schweiz Med Wochenschr** 1996 Dec 14;126(50):2181–3 (Eng. Abstr.) **(Fre)**

[Logistics characteristics and surgical aspects of heart transplantation] Carrel T, et al. **Schweiz Rundsch Med Prax** 1997 Mar 18;86(12):459–64 (18 ref.) (Eng. Abstr.) **(Fre)**

[Lung and heart-lung transplantation] Wagner TO, et al. **Internist (Berl)** 1996 Mar;37(3):272–82 (35 ref.) **(Ger)**

[Heart transplantation. Indications, results and perspectives] Wahlers T, et al. **Internist (Berl)** 1996 Mar;37(3):283–8 (25 ref.) **(Ger)**

[Orthotopic and heterotopic heart transplantation] Konertz W. **Z Kardiol** 1996;85 Suppl 4:69–73 (Eng. Abstr.) **(Ger)**

[Heart transplantation] Fukushima N. **Nippon Geka Gakkai Zasshi** 1996 Nov;97(11):990–6 (Eng. Abstr.) **(Jpn)**

MORTALITY

Lipid-lowering therapy and long-term survival in heart transplantation. Stapleton DD, et al. **Am J Cardiol** 1997 Sep 15;80(6):802–5

Psychiatric interview and psychometric predictors of cardiac transplant survival. Chacko RC, et al. **Am J Psychiatry** 1996 Dec;153(12):1607–12

Heart transplantation in septuagenarians [letter; comment] Robicsek F. **Ann Thorac Surg** 1997 Jul;64(1):289–90. Comment on: Ann Thorac Surg 1996 Dec;62(6):1731–6.

Survival and risk factors for death after cardiac transplantation in infants. A multi-institutional study. The Pediatric Heart Transplant Study. Canter C, et al. **Circulation** 1997 Jul 1;96(1):227–31

Left ventricular assist device infection is associated with increased mortality but is not a contraindication to transplantation. Herrmann M, et al. **Circulation** 1997 Feb 18;95(4):814–7

Early Doppler echocardiographic dysfunction is associated with an increased mortality after orthotopic cardiac transplantation. Ross HJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II289–93

Outcome of cardiac transplantation in children. Survival in a contemporary multi-institutional experience. Pediatric Heart Transplant Study. Shaddy RE, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II69–73

HMG-CoA reductase inhibitors reduce transplant coronary artery disease and mortality: evidence for antigen-independent mechanisms? [editorial; comment] Valantine HA, et al. **Circulation** 1997 Sep 2;96(5):1370–3 . Comment on: Circulation 1997 Sep 2;96(5):1398–402.

Simvastatin reduces graft vessel disease and mortality after heart transplantation: a four-year randomized trial [see comments] Wenke K, et al. **Circulation** 1997 Sep 2; 96(5):1398–402. Comment in: Circulation 1997 Sep 2;96(5):1370–3.

Disproportionate HLA matching may contribute to racial disparity in patient survival following cardiac transplantation. Park MH, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):625–8

Heart transplantation in patients over 54 years of age [editorial; comment] Pepper JR. **Eur Heart J** 1997 May; 18(5):708. Comment on: Eur Heart J 1997 May;18(5):870–8.

Heart transplantation in patients over 54 years of age. Mortality, morbidity and quality of life [see comments] Rickenbacher PR, et al. **Eur Heart J** 1997 May;18(5):870–8 . Comment in: Eur Heart J 1997 May;18(5):708.

Smoking after heart transplantation: an underestimated hazard? Nägele H, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):70–4

The Concerted Action 'Heart' European registry on clinical application of mechanical circulatory support systems: bridge to transplant. The Registry Scientific Committee. Quaini E, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):182–8

Restrictive criteria for heart transplantation candidacy maximize survival of patients with advanced heart failure. Frigerio M, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):160–8

Preoperative obesity is associated with decreased survival after heart transplantation. Grady KL, et al. **J Heart Lung Transplant** 1996 Sep;15(9):863–71

Prognosis determination in patients with advanced heart failure. Kao W, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):S2–6 (29 ref.)

Competing outcomes after heart transplantation: a comparison of eras and outcomes. McGiffin DC, et al. **J Heart Lung Transplant** 1997 Feb;16(2):190–8

Long conservation organs in heart transplantation: postoperative results and long-term follow-up in fourteen patients. Obadia JF, et al. **J Heart Lung Transplant** 1997 Feb;16(2):256–9

Improved long-term survival after heart transplantation predicted by successful early withdrawal from maintenance corticosteroid therapy. Taylor DO, et al. **J Heart Lung Transplant** 1996 Oct;15(10):1039–46

Do long-term results justify bridging to heart transplantation in patients with multi-organ dysfunction? Brandt M, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):277–81

HLA-DR matching defined by DNA typing in heart transplantation. Mascaretti L, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1464–6

The impact of race and HLA matching on long-term survival following cardiac transplantation. Park MH, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1460–3

[Cardiac transplantation: clinical results. Apropos of 150 cases] Logeais Y, et al. **Chirurgie** 1996;121(3):203–6 (Eng. Abstr.) **(Fre)**

[Pulmonary arterial hypertension and heart transplantation: hemodynamic evolution and survival] Delgado Jiménez JF, et al. **Rev Esp Cardiol** 1996 Nov;49(11):804–9 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Coronary plaque morphologic characteristics early and late after heart transplantation: in vivo analysis with intravascular ultrasonography. Klauss V, et al. **Am Heart J** 1997 Jan;133(1):29–35

Histopathology of restenosis after stenting of narrowed coronary arteries after cardiac transplantation during the teenage years. Foster MT, et al. **Am J Cardiol** 1997 Aug 1;80(3):389–93

Comparison of quantitative echocardiography with endomyocardial biopsy to define myocardial rejection in pediatric patients after cardiac transplantation. Neuberger S, et al. **Am J Cardiol** 1997 Feb 15;79(4):447–50

Expression of fibronectin splicing variants in organ transplantation: a differential pattern between rat cardiac allografts and isografts. Coito AJ, et al. **Am J Pathol** 1997 May;150(5):1757–72

Enhanced lymphocyte longevity and absence of proliferation and lymphocyte apoptosis in Quilty effects of human heart allografts. Dong C, et al. **Am J Pathol** 1997 Jul; 151(1):121–30

In situ expression of cytokines in human heart allografts. Van Hoffen E, et al. **Am J Pathol** 1996 Dec;149(6):1991–2003

Adhesion molecule P-selectin and vascular cell adhesion molecule-1 in enhanced heart allograft arteriosclerosis in the rat. Koskinen PK, et al. **Circulation** 1997 Jan 7; 95(1):191–6

Autoimmune response in chronic ongoing myocarditis demonstrated by heterotopic cardiac transplantation in mice. Nakamura H, et al. **Circulation** 1996 Dec 15; 94(12):3348–54

VCAM-1 and E-selectin expression during cytomegalovirus infection in post-transplant myocardial biopsies. Allen MD, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):528–37

Magnetic resonance coronary angiography in heart transplant recipients. Mohiaddin RH, et al. **Coron Artery Dis** 1996 Aug;7(8):591–7 (28 ref.)

The pathogenesis of cardiac allograft vasculopathy. Dong C, et al. **Curr Opin Cardiol** 1996 Mar;11(2):183–90 (54 ref.)

The challenge of endomyocardial biopsy interpretation in assessing cardiac allograft rejection. Winters GL. **Curr Opin Cardiol** 1997 Mar;12(2):146–52 (59 ref.)

Left atrial thrombus in heart transplant recipients [letter; comment] Fernández González AL, et al. **Eur Heart J** 1996 Nov;17(11):1756–7. Comment on: Eur Heart J 1995 Jan;16(1):120–5.

Early graft failure after heart transplantation due to coronary artery embolization with myocardial tissue. Miralles A, et al. **Eur J Cardiothorac Surg** 1996;10(10):916–8

Vascular remodelling in intramyocardial resistance vessels in hypertensive human cardiac transplant recipients. Jenkins JT, et al. **Heart** 1997 Apr;77(4):353–6

Are all bizarre intramyocardial artery-like structures in human cardiac allografts really coronary vessels? [letter; comment] Beranek JT. **Histopathology** 1997 Feb; 30(2):197–8. Comment on: Histopathology 1995 Nov;27(5):439–44.

Structure of skeletal muscle in heart transplant recipients. Lampert E, et al. **J Am Coll Cardiol** 1996 Oct;28(4):980–4

Magnetic resonance coronary angiography in heart transplant recipients. Davis SF, et al. **J Heart Lung Transplant** 1996 Jun;15(6):580–6

Role of hypercholesterolemia in accelerated transplant coronary vasculopathy: results of surgical therapy with partial ileal bypass in rabbits undergoing heterotopic heart transplantation. Esper E, et al. **J Heart Lung Transplant** 1997 Apr;16(4):420–35

Cardiac allograft rejection: do trough cyclosporine levels correlate with the grade of histologic rejection? el Gamel A, et al. **J Heart Lung Transplant** 1997 Mar;16(3):268–74

Histologically diagnosed Helicobacter pylori in heart transplant recipients. Huwez FU, et al. **J Heart Lung Transplant** 1997 Jun;16(6):596–9

A histopathologic grading system of hyperacute (humoral, antibody-mediated) cardiac xenograft and allograft rejection. Rose AG, et al. **J Heart Lung Transplant** 1996 Aug;15(8):804–17

Transferral of extrathoracic donor neoplasm by the cardiac allograft. Sack FU, et al. **J Heart Lung Transplant** 1997 Mar;16(3):298–301

Adult heart transplantation under tacrolimus (FK506) immunosuppression: histopathologic observations and comparison to a cyclosporine-based regimen with lympholytic (ATG) induction. Tsamandas AC, et al. **J Heart Lung Transplant** 1997 Jul;16(7):723–34

Myocardial apoptosis in a heterotopic murine heart transplantation model of chronic rejection and graft vasculopathy. White WL, et al. **J Heart Lung Transplant** 1997 Feb;16(2):250–5

Consistencies and controversies in the application of the International Society for Heart and Lung Transplantation working formulation for heart transplant biopsy specimens. Rapamycin Cardiac Rejection Treatment Trial Pathologists. Winters GL, et al. **J Heart Lung Transplant** 1996 Jul;15(7):728–35

An assessment of the distortion of arteries due to sectioning

in endomyocardial biopsies. Boyle JJ, et al. **J Pathol** 1997 Feb;181(2):243–6

Three–dimensional reconstruction of abnormal intramural coronary arteries in human cardiac allograft biopsies. Jenkins J, et al. **J Pathol** 1997 Feb;181(2):247–50

Ultrastructural evidence of myocardial alterations in the course of heterotopic heart transplantation. Ibba Manneschi L, et al. **J Submicrosc Cytol Pathol** 1996 Jul;28(3):401–8

Pulmonary interstitial fibrosis and haemosiderin–laden macrophages: late following heart transplantation. Egan JJ, et al. **Respir Med** 1996 Oct;90(9):547–51

Coronary calcification detected by ultrafast computed tomography is a predictor of cardiac events in heart transplant recipients. Lazem F, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):572–5

Expression of platelet–derived growth factor in the development of cardiac allograft vasculopathy in the rat. Lemström K, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1045–6

Myocytolysis in heart transplant patients. Sgrosso JL, et al. **Transplant Proc** 1996 Dec;28(6):3325–7

Retransplantation and reversibility of chronic vascular rejection. Zheng SX, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1541

Morphometric analysis of neointimal formation in murine cardiac allografts. Armstrong AT, et al. **Transplantation** 1997 Apr 15;63(7):941–7

Myocardial pseudovascular tubes are present in the delayed rejection of heart xenografts [letter; comment] Beranek JT. **Transplantation** 1997 Feb 15;63(3):486–7. Comment on: Transplantation 1994 Mar 27;57(6):900–6.

Apoptosis in murine cardiac grafts. Bergese SD, et al. **Transplantation** 1997 Jan 27;63(2):320–5

Irreversible chronic vascular rejection occurs only after development of advanced allograft vasculopathy: a comparative study of a rat cardiac allograft model using a retransplantation protocol. Forbes RD, et al. **Transplantation** 1997 Mar 15;63(5):743–9

Apoptosis of mononuclear cell infiltrates in cardiac allograft biopsy specimens questions studies of biopsy–cultured cells. Jollow KC, et al. **Transplantation** 1997 May 27; 63(10):1482–9

Quantitation of the changes in splenic architecture during the rejection of cardiac allografts or xenografts. Shen J, et al. **Transplantation** 1997 Aug 15;64(3):448–53

[Effect of adjuvant cytostasis after organ transplantation: an experimental study with a combined transplantation–tumor model] Zimmermann T, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:551–4 (Eng. Abstr.) **(Ger)**

[Role of the pathologist in the clinical management of the heart transplant patient (editorial)] Baroldi G. **Cardiologia** 1995 Oct;40(10):713–6 **(Ita)**

PHYSIOLOGY

Atrial natriuretic peptide in normotensive and hypertensive heart transplanted patients. Cugini P, et al. **Acta Cardiol** 1996;51(3):252–8

Signs of functional efferent reinnervation of the heart in patients after cardiac transplantation. Fagard R, et al. **Acta Cardiol** 1995;50(5):369–80

Variations of segmental endothelium–dependent and endothelium–independent vasomotor tone after cardiac transplantation (qualitative changes in endothelial function). Weis M, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):306–15

Comparison of adenosine to dipyridamole in degree of coronary hyperemic response in heart transplant recipients. Chou TM, et al. **Am J Cardiol** 1996 Oct 15;78(8):908–13

Serum aminoterminal propeptide of type III procollagen after cardiac transplantation and the effect of rejection. Høst NB, et al. **Am J Cardiol** 1996 Dec 15;78(12):1406–10

Effect of simvastatin on ejection fraction in cardiac transplant recipients. Jenkins GH, et al. **Am J Cardiol** 1996 Dec 15; 78(12):1453–6

Acute reversibility of pulmonary hypertension predicts neither long–term hemodynamic response nor outcome in patients awaiting heart transplantation. Levine TB, et al. **Am J Cardiol** 1997 Jan 1;79(1):105–6

Plasma levels of tissue plasminogen activator and plasminogen activator inhibitor–1 are correlated with the presence of transplant coronary artery disease in cardiac transplant recipients. Warshofsky MK, et al. **Am J Cardiol** 1997 Jul 15;80(2):145–9

Function of the transplanted heart: unique physiology and therapeutic implications. Cotts WG, et al. **Am J Med Sci** 1997 Sep;314(3):164–72

Humoral factor(s) produced by pressure overload enhance cardiac hypertrophy and natriuretic peptide expression. Iso T, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H113–8

Inflammatory cell–derived NO modulates cardiac allograft contractile and electrophysiological function. Worrall NK, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H28–37

Early hemodynamic effects of left atrial administration of epinephrine after cardiac transplantation. Myles PS, et al. **Anesth Analg** 1997 May;84(5):976–81

Hemodynamic response to anesthesia and pneumoperitoneum in orthotopic cardiac transplant recipients [see comments] Joshi GP, et al. **Anesthesiology** 1996 Oct;85(4):929–33. Comment in: Anesthesiology 1997 Jun;86(6):1425–7.

Effects of nitric oxide after cardiac transplantation in the setting of recipient pulmonary hypertension. Chen EP, et al. **Ann Thorac Surg** 1997 Jun;63(6):1546–55

Coronary microvascular reactivity after ischemic cold storage and reperfusion. Murphy CO, et al. **Ann Thorac Surg** 1997 Jan;63(1):20–6; discussion 26–7

Impaired vascular smooth muscle nitric oxide–dependent relaxation in human coronary arteries from "transplanted heart vasculopathy". Salas E, et al. **Arch Inst Cardiol Mex** 1997 Jan–Feb;67(1):11–6

Changes in calcium handling in atrophic heterotopically isotransplanted rat hearts. Kolář F, et al. **Basic Res Cardiol** 1995 Nov–Dec;90(6):475–81

Heart muscle and plasma vitamin Q with heart transplantation. Karlsson J, et al. **Can J Cardiol** 1997 Feb; 13(2):147–52

Electromyographic response to exercise in cardiac transplant patients: a new method for anaerobic threshold determination? Lucía A, et al. **Chest** 1997 Jun;111(6):1571–6

Dobutamine enhances cardiodepressant effects of receptor–mediated coronary endothelial stimulation. Bartunek J, et al. **Circulation** 1997 Jan 7;95(1):90–6

Power law behavior of RR–interval variability in healthy middle–aged persons, patients with recent acute myocardial infarction, and patients with heart transplants. Bigger JT Jr, et al. **Circulation** 1996 Jun 15;93(12):2142–51

Long–term sequential changes in exercise capacity and chronotropic responsiveness after cardiac transplantation [see comments] Givertz MM, et al. **Circulation** 1997 Jul 1;96(1):232–7. Comment in: Circulation 1997 Jul 1;96(1):6–8.

Surgically denervated cardiac transplant. Rewired or permanently unplugged? [editorial; comment] Mancini D. **Circulation** 1997 Jul 1;96(1):6–8. Comment on: Circulation 1997 Jul 1;96(1):232–7.

Vasopressin release during orthostatic hypotension after cardiac transplantation. Lord SW, et al. **Clin Auton Res** 1996 Dec;6(6):351–7

Cytomegalovirus infection associated accelerated heart allograft arteriosclerosis may impair the late function of the graft. Koskinen P, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):487–93

Renal function in cardiac transplant recipients: retrospective analysis of 133 consecutive patients in a single center. Tinawi M, et al. **Clin Transplant** 1997 Feb;11(1):1–8

Detecting chaos in HRV signals in human cardiac transplant recipients. Khadra LM, et al. **Comput Biomed Res** 1997 Jun;30(3):188–99

The prognostic significance of non–invasive cardiac tests in heart transplant recipients [see comments] Barbir M, et al. **Eur Heart J** 1997 Apr;18(4):692–6. Comment in: Eur Heart J 1997 Apr;18(4):537–8.

Which test for detecting accelerated coronary artery disease in the heart transplant patient? [editorial; comment] Delahaye F, et al. **Eur Heart J** 1997 Apr;18(4):537–8. Comment on: Eur Heart J 1997 Apr;18(4):692–6.

Right ventricular function in the donor heart. Kendall SW, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):609–15

Pulmonary diffusion impairment following heart transplantation: a prospective study [letter; comment] Cotes JE, et al. **Eur Respir J** 1997 Jan;10(1):253–4. Comment on: Eur Respir J 1996 Apr;9(4):663–8.

Heart rate and blood pressure variability in cardiac diseases: pharmacological implications. Cloarec–Blanchard L. **Fundam Clin Pharmacol** 1997;11(1):19–28 (98 ref.)

Effect of donor fasting on survival of pancreas and heart grafts after warm ischemia. Nishihara M, et al. **Hiroshima J Med Sci** 1996 Sep;45(3):93–7

Region–specific neuropeptide Y overflows at rest and during sympathetic activation in humans. Morris MJ, et al. **Hypertension** 1997 Jan;29(1 Pt 1):137–43

Beta–adrenoceptor desensitization despite cardiac denervation in human failing transplanted myocardium. Reithmann C, et al. **Int J Cardiol** 1996 Sep;56(1):11–5

Hamster cardiac xenograft in rat ear: effect of cyclosporine A and leflunomide on survival. Ikeda K, et al. **Int J Immunopharmacol** 1996 Jun–Jul;18(6–7):409–14

Persistent exercise intolerance following cardiac transplantation despite normal oxygen transport. Mettauer B, et al. **Int J Sports Med** 1996 May;17(4):277–86

Heart rate variability in the human transplanted heart: nonlinear dynamics and QT vs RR–QT alterations during exercise suggest a return of neurocardiac regulation in long–term recovery. Meyer M, et al. **Integr Physiol Behav Sci** 1996 Oct–Dec;31(4):289–305

Myocardial contractile effects of L–arginine in the human allograft. Paulus WJ, et al. **J Am Coll Cardiol** 1997 May; 29(6):1332–8

QT dispersion as a marker of risk in patients awaiting heart transplantation. Pinsky DJ, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1576–84

The clinical value of blunting of cyclic gray level variation for the detection of acute cardiac rejection: a two–dimensional, Doppler, and videodensitometric ultrasound study. Ciliberto GR, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):306–13

Renal functional reserve in kidney and heart transplant recipients. Ader JL, et al. **J Am Soc Nephrol** 1996 Aug; 7(8):1145–52

Physical training in heart transplant recipients. Kavanagh T. **J Cardiovasc Risk** 1996 Apr;3(2):154–9 (47 ref.)

Vascular bed–specific expression of an endothelial cell gene is programmed by the tissue microenvironment. Aird WC, et al. **J Cell Biol** 1997 Sep 8;138(5):1117–24

Prolongation of murine cardiac allograft survival by microspheres containing TNF alpha and IL1–beta neutralizing antibodies. Gerber DA, et al. **J Drug Target** 1995;3(4):311–5

Effects of fosinopril on the blood pressure and lipid profile of patients undergoing heart transplantation. Almenar L, et al. **J Heart Lung Transplant** 1997 Apr;16(4):454–9

Duration of left ventricular assist device support affects transplant survival. Ashton RC Jr, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1151–7

The combined effects of brain death and cardiac graft preservation on cardiopulmonary hemodynamics and function before and after subsequent heart transplantation. Bittner HB, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):764–77

Orthotopic heart transplantation hemodynamics: does atrial preservation improve cardiac output after transplantation? el–Gamel A, et al. **J Heart Lung Transplant** 1996 Jun; 15(6):564–71

Exercise capacity of heart transplant recipients: the importance of chronotropic incompetence. Gullestad L, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1075–83

Prognostic value of pulmonary hypertension in patients with chronic interstitial lung disease referred for lung or heart–lung transplantation. Harari S, et al. **J Heart Lung Transplant** 1997 Apr;16(4):460–3

Five years' follow–up of renal glomerular and tubular functions in heart transplant recipients. Hartmann A, et al. **J Heart Lung Transplant** 1996 Oct;15(10):972–9

Dehydroepiandrosterone and cardiac allograft vasculopathy. Herrington DM, et al. **J Heart Lung Transplant** 1996 Jan; 15(1 Pt 1):88–93

Infant and donor organ growth after heart transplantation in neonates with hypoplastic left heart syndrome. Hirsch R, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1093–100

Pulmonary hypertension in severe congestive heart failure: how important is it? Hunt SA. **J Heart Lung Transplant** 1997 Jun;16(6):S13–5 (21 ref.)

Time–dependent decrease of presynaptic inotropic supersensitivity: physiological evidence of sympathetic reinnervation after heart transplantation. Koglin J, et al. **J Heart Lung Transplant** 1997 Jun;16(6):621–8

Dobutamine echocardiography for prediction of ischemic events in heart transplant recipients. Lewis JF, et al. **J Heart Lung Transplant** 1997 Apr;16(4):390–3

Cyclosporine–induced hypertension: evidence for maintained baroreflex circulatory control. Lucini D, et al. **J Heart Lung Transplant** 1997 Jun;16(6):615–20

Absence of bradycardic response to apnea and hypoxia in heart transplant recipients with obstructive sleep apnea. Madden BP, et al. **J Heart Lung Transplant** 1997 Apr; 16(4):394–7

Redistribution of amiodarone in heart transplant recipients treated with the drug before operation. Nanas JN, et al. **J Heart Lung Transplant** 1997 Apr;16(4):387–9

An individualized protocol is more accurate than a standard protocol for assessing exercise capacity after heart transplantation. Olivari MT, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1069–74

Time course of coronary endothelial dysfunction in acute untreated rejection after heterotopic heart transplantation. Perrault LP, et al. **J Heart Lung Transplant** 1997 Jun; 16(6):643–57

Donor blood perfusion improves myocardial recovery after heart transplantation. Rao V, et al. **J Heart Lung Transplant** 1997 Jun;16(6):667–73

Exercise capacity after heart transplantation: influence of donor and recipient characteristics. Renlund DG, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):16–24

What health educators should know about pediatric heart transplant recipients. Duitsman D. **J Sch Health** 1996 Oct; 66(8):305–7

Heat shock protein 70 expression in native and heterotopically transplanted rat hearts. Mehta NK, et al. **J Surg Res** 1997 Jul 1;70(2):151–5

Intracoronary gene transfer of immunosuppressive cytokines to cardiac allografts: method and efficacy of adenovirus–mediated transduction. Brauner R, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1059–66; discussion 1066–7

Endothelial activation and development of coronary artery disease in transplanted human hearts [see comments] Labarrere CA, et al. **JAMA** 1997 Oct 8;278(14):1169–75. Comment in: JAMA 1997 Oct 8;278(14):1197–8.

Short endurance training improves lactate removal ability in patients with heart transplants. Lampert E, et al. **Med Sci Sports Exerc** 1996 Jul;28(7):801–7

Influence of post–surgery time after cardiac transplantation on exercise responses. Mercier J, et al. **Med Sci Sports Exerc** 1996 Feb;28(2):171–5

Effects of cardiac sympathetic innervation on coronary blood flow. Di Carli MF, et al. **N Engl J Med** 1997 Apr 24; 336(17):1208–15

Heart rate variability in myocardial infarction with and without malignant arrhythmias: comparison with heart transplant recipients and normal subjects. Rodrigues TR, et al. **Pacing Clin Electrophysiol** 1996 Nov;19(11 Pt 2):1857–62

Should 6–thioguanine nucleotides be monitored in heart transplant recipients given azathioprine? Schütz E, et al. **Ther Drug Monit** 1996 Jun;18(3):228–33

Novel actions of thyroid hormone: the role of

triiodothyronine in cardiac transplantation. Novitzky D. **Thyroid** 1996 Oct;6(5):531–6 (32 ref.)

Effects of cyclosporine A and methotrexate on induction of tumour necrosis factor–alpha in rat cardiac allografts. Ciesielski CJ, et al. **Transpl Immunol** 1997 Mar;5(1):25–34

An examination of tissue chimerism in the ACI to Lewis rat cardiac transplant model. Frede SE, et al. **Transpl Immunol** 1996 Sep;4(3):227–31

Accommodation of xenografts: expression of "protective genes" in endothelial and smooth muscle cells. Bach FH, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):56–8

Complete recovery of posttransplant primary heart dysfunction by prolonged mechanical assistance: report of two cases and arguments for a state of stunned myocardium. Dureau G, et al. **Transplant Proc** 1996 Oct; 28(5):2871–4

Normal value of oxygen deficit at the onset of moderate exercise in heart transplants. Epailly E, et al. **Transplant Proc** 1996 Oct;28(5):2875

Soluble complement receptor type 1 and antithrombin–III combination therapy prolongs xenograft survival: the role of thrombin and prostacyclin in hyperacute rejection. Fujiwara I, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):935–7

Noninvasive monitoring of rejection therapy based on intramyocardial electrograms after orthotopic heart transplantation. Grasser B, et al. **Transplant Proc** 1996 Dec; 28(6):3276–7

Influence of allograft coronary artery disease on survival and cardiac function in the decade following orthotopic cardiac transplantation. Grocott–Mason RM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):576–7

Effects of opiate receptor blockade with naloxone on thyrotropin secretion in heart transplant patients. Gumprecht J, et al. **Transplant Proc** 1996 Dec;28(6):3540–1

Is cardiac reinnervation in heart transplant recipients functionally significant? Insight from studies of diurnal blood pressure variability and cardiac mass. Jenkins GH, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):571

Outcomes of hepatitis C positive (HCV+) heart transplant recipients. Lake KD, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):581–2

Association of pretransplant anti–heart antibodies against human heat shock protein 60 with clinical course following cardiac transplantation. Latif N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1039–40

Coronary calcification detected by ultrafast computed tomography is a predictor of cardiac events in heart transplant recipients. Lazem F, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):572–5

Chronic linkage after heterotopic heart transplantation. Morris–Thurgood J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):580

Heart transplantation for doxorubicin–induced congestive heart failure in children and adolescents. Musci M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):578–9

Multicenter evaluation of immunosuppressive regimens in heart transplantation. The Collaborative Transplant Study. Opelz G. **Transplant Proc** 1997 Feb–Mar;29(1–2):617–9

Incidence and functional significance of sympathetic reinnervation after cardiac transplantation. Parry DS, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):569–70

Cyclosporine neoral pharmacokinetics in kidney and heart transplant patients. Schiavelli R, et al. **Transplant Proc** 1996 Dec;28(6):3343–4

In vitro and in vivo effects of leflunomide, brequinar, and cyclosporine on pyrimidine biosynthesis. Silva HT Jr, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1292–3

Cytoprotective effects of the 60kD heat–shock protein enhanced by heat stress in rat cardiac grafts with warm ischemic injuries. Tamaki T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1340–1

Induction of accommodation prevents hyperacute rejection. Vriens PW, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):597–8

Ventriculoarterial coupling and left ventricular efficiency in heart transplant recipients. Arnoult F, et al. **Transplantation** 1997 Aug 27;64(4):617–26

Pharmacodynamics of cyclosporine in heart and heart–lung transplant recipients. I: Blood cyclosporine concentrations and other risk factors for cardiac allograft rejection. Best NG, et al. **Transplantation** 1996 Nov 27;62(10):1429–35

The use of hibernation induction triggers for cardiac transplant preservation. Bolling SF, et al. **Transplantation** 1997 Jan 27;63(2):326–9

Long–term follow–up of hepatitis C virus infection among organ transplant recipients: implications for policies on organ procurement. Bouthot BA, et al. **Transplantation** 1997 Mar 27;63(6):849–53

Organ preservation solutions in heart transplantation--patterns of usage and related survival. Demmy TL, et al. **Transplantation** 1997 Jan 27;63(2):262–9

Outcomes in recipients of combined heart–kidney transplantation: multiorgan, same–donor transplant study of the International Society of Heart and Lung Transplantation/United Network for Organ Sharing Scientific Registry. Narula J, et al. **Transplantation** 1997 Mar 27;63(6):861–7

Doppler analysis of pulmonary venous flow profiles in orthotopic heart transplant recipients: a comparison with mitral flow profiles and atrial function. Spes CH, et al. **Z Kardiol** 1996 Oct;85(10):753–60

[Intravascular sonographic findings after orthotopic heart transplantation: comparison with clinical factors] Kerber S, et al. **Herz** 1996 Oct;21(5):320–9 (Eng. Abstr.) **(Ger)**

[Reducing perfusion damage after heart transplantation with the nitric oxide donor L–arginine] Szabó G, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:7–10 (Eng. Abstr.) **(Ger)**

[Describing and interpreting systemic hypertension in heart transplantation with non–invasive arterial pressure monitoring] Cugini P, et al. **Cardiologia** 1996 Jul; 41(7):653–9 (Eng. Abstr.) **(Ita)**

[Heart transplant over 55 years] Pederzolli C, et al. **G Ital Cardiol** 1997 Mar;27(3):263–9 (Eng. Abstr.) **(Ita)**

[Who are the "non–dippers": an insight from the ambulatory monitoring of arterial pressure in heart transplant patients] Cugini P, et al. **Recenti Prog Med** 1997 May;88(5):212–6 (Eng. Abstr.) **(Ita)**

[Hypertensive cardiac damage in heart transplantation. A noninvasive monitoring study of arterial pressure] Cugini P, et al. **Recenti Prog Med** 1996 Oct;87(10):460–5 (Eng. Abstr.) **(Ita)**

[Effects of rejection on the contractile reserve of the graft after heart transplantation] Bellotti G, et al. **Arq Bras Cardiol** 1996 Jul;67(1):5–9 (Eng. Abstr.) **(Por)**

[A comparison of bezafibrate and lovastatin treatment at the usual doses in post–heart transplant hyperlipemia] Zambrana García JL, et al. **Rev Esp Cardiol** 1996 Dec; 49(12):892–8 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Quality of life following transplantation of the heart, liver, and lungs. Littlefield C, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):36S–47S

Left ventricular assist devices. Psychosocial burden and implications for heart transplant programs. Shapiro PA, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):30S–35S

Spouse stressors while awaiting heart transplantation [see comments] Collins EG, et al. **Heart Lung** 1996 Jan–Feb; 25(1):4–13. Comment in: Heart Lung 1996 Sep–Oct;25(5):422.

Impact of the heart transplant waiting process on spouses. Collins EG, et al. **J Heart Lung Transplant** 1996 Jun; 15(6):623–30

Medical compliance and its predictors in the first year after heart transplantation. Dew MA, et al. **J Heart Lung Transplant** 1996 Jun;15(6):631–45

Improvement in quality of life in patients with heart failure who undergo transplantation. Grady KL, et al. **J Heart Lung Transplant** 1996 Aug;15(8):749–57

Psychosocial morbidity in children, and their families, awaiting heart or heart–lung transplantation. Serrano–Ikkos E, et al. **J Psychosom Res** 1997 Mar;42(3):253–60

She's got heart: a patient's story. Corneli DH. **N J Med** 1996 Sep;93(9):34–5

Patient and family adjustment to heart transplantation. Hwang HF. **Prog Cardiovasc Nurs** 1996 Spring;11(2):16–8, 39 (18 ref.)

[The psychological evaluation of patients with severe heart failure awaiting a heart transplant] Gentili P, et al. **Cardiologia** 1997 Feb;42(2):195–9 (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Staging of cardiac rejection by simultaneous administration of 123I–antimyosin and 111In–anti MHC class II antibodies. Isobe M, et al. **Acta Cardiol** 1996;51(6):515–20

Progressive heterogeneity of myocardial perfusion in heart transplant recipients detected by thallium–201 myocardial SPECT. Puskás C, et al. **J Nucl Med** 1997 May;38(5):760–5

REHABILITATION

Rehabilitation after cardiac transplantation. Case series and literature review. Joshi A, et al. **Am J Phys Med Rehabil** 1997 May–Jun;76(3):249–54

The place of perceived exertion ratings in exercise prescription for cardiac transplant patients before and after training. Shephard RJ, et al. **Br J Sports Med** 1996 Jun; 30(2):116–21

[Heart transplantation: after–care and rehabilitation. Current status and results of a survey by the German Transplantation Program. Thoracic Organ Transplantation Study Group of the German Society of Cardiology] Fleck E, et al. **Z Kardiol** 1996 Jan;85(1):67–77 **(Ger)**

STANDARDS

Timing of cardiac transplantation in children. Gersony WM. **Cardiologia** 1995 Oct;40(10):739–44 (22 ref.)

Identification of poorly performing transplant centers using the UNOS center–specific data. Burdick J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1495

STATISTICS & NUMERICAL DATA

Thoracic organ transplantation at Papworth Hospital. Braidley PC, et al. **Clin Transpl** 1996;:167–75

Pediatric heart transplantation at Loma Linda: 1985 to 1996. Chinnock RE. **Clin Transpl** 1996;:145–51

Worldwide thoracic organ transplantation: a report from the UNOS/ISHLT International Registry for Thoracic Organ Transplantation. Keck BM, et al. **Clin Transpl** 1996;:31–45

Two decades of cardiac transplantation at the Columbia–Presbyterian Medical Center: 1977–1997. Michler RE, et al. **Clin Transpl** 1996;:153–65

Selection and management of cardiac allograft donors. Novitzky D. **Curr Opin Cardiol** 1996 Mar;11(2):174–82 (51 ref.)

Cardiac transplantation in childhood cancer survivors in Great Britain. Levitt G, et al. **Eur J Cancer** 1996 May; 32A(5):826–30

Epidemiologic evidence of transmission of donor–related bacterial infection through a transplanted heart. Coll P, et al. **J Heart Lung Transplant** 1997 Apr;16(4):464–7

Predicting outcome after listing for heart transplantation in children: comparison of Kaplan–Meier and parametric competing risk analysis. Pediatric Heart Transplant Study Group. McGiffin DC, et al. **J Heart Lung Transplant** 1997 Jul;16(7):713–22

Psychosocial morbidity in children, and their families, awaiting heart or heart–lung transplantation. Serrano–Ikkos E, et al. **J Psychosom Res** 1997 Mar;42(3):253–60

Cardiac transplantation in New Zealand: eight years experience. Lund M, et al. **N Z Med J** 1997 Apr 25; 110(1042):139–42

[National registry of heart transplantation. Seventh report (1984–1995)] Arizón del Prado JM. **Rev Esp Cardiol** 1996 Nov;49(11):781–7 (Eng. Abstr.) **(Spa)**

TRENDS

Cardiac transplantation. Renlund DG, et al. **Am J Med Sci** 1997 Sep;314(3):127–8

Organs: allo, artificial, and hybrid. Calne R. **Artif Organs** 1996 Dec;20(12):1269

Extracorporeal membrane oxygenation as a bridge to cardiac transplantation in children. Ishino K, et al. **Artif Organs** 1996 Jun;20(6):728–32

Organ transplantation in Taiwan. Lee CJ. **Artif Organs** 1996 Dec;20(12):1270–3 (10 ref.)

Current status of heart transplantation [editorial] Costanzo MR. **Curr Opin Cardiol** 1996 Mar;11(2):161–5 (22 ref.)

Current status of cardiac transplantation in children. Addonizio LJ. **Curr Opin Pediatr** 1996 Oct;8(5):520–6 (44 ref.)

Transplants. Save a heart, save a life. Swan H. **Hosp Health Netw** 1997 Apr 5;71(7):96

Transplantation in the 21st century. Morris PJ. **Kidney Int Suppl** 1997 Mar;58:S51–5 (28 ref.)

[Indications, contraindications and differential therapeutic alternatives in heart transplantation. Current status and results of a survey by the German Transplantation Programs. Thoracic Organ Transplantation Study Group of the German Society of Cardiology--Heart and Lung Research] **Z Kardiol** 1996 Jul;85(7):519–27 (73 ref.) (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Coronary plaque morphologic characteristics early and late after heart transplantation: in vivo analysis with intravascular ultrasonography. Klauss V, et al. **Am Heart J** 1997 Jan;133(1):29–35

Echocardiographic indexes of rejection in pediatric cardiac transplant recipients managed without maintenance steroid immunosuppression. Harada K, et al. **Am J Cardiol** 1997 Mar 1;79(5):693–6

Stress echocardiography in special groups: in women, in left bundle branch block, in hypertension and after heart transplantation. Schartl M, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D63–7 (24 ref.)

Serial echocardiography in transplanted heart: an initial report of five cases. Saxena A, et al. **Indian Heart J** 1997 May–Jun;49(3):279–82

Myocardial acoustics in pediatric allograft rejection. Gotteiner NL, et al. **J Heart Lung Transplant** 1996 Jun; 15(6):596–604

Echocardiographic characteristics of biopsy–proven cellular rejection in infant heart transplant recipients. Santos–Ocampo SD, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):25–34

Unreliability of echocardiographic and Doppler indexes in the diagnosis of heart transplant acute rejection [see comments] Peteiro J, et al. **Rev Port Cardiol** 1996 Jul–Aug; 15(7–8):575–81, 548. Comment in: Rev Port Cardiol 1996 Jul–Aug;15(7–8):583–4.

Diagnosing cardiac rejection by echocardiography [editorial; comment] Pinto FJ. **Rev Port Cardiol** 1996 Jul–Aug; 15(7–8):583–4. Comment on: Rev Port Cardiol 199g Jul–Aug;15(7–8):575–81.

[Transesophageal echocardiographic findings in patients after heart transplantation] Ishizuka N, et al. **J Cardiol** 1997 Mar; 29(3):163–70 (Eng. Abstr.) **(Jpn)**

VETERINARY

Comparison of methods to evaluate acute rejection in heterotopic heart transplantation in rats. Koizumi H, et al. **Exp Anim** 1996 Jul;45(3):217–25

HEART VALVE DISEASES

Pre–anaesthetic evaluation and management of patients with cardiovascular disease. Hultman J. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 2):996–1003

Immunohistochemical abnormalities of fibrillin in cardiovascular tissues in Marfan's syndrome. Fleischer KJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):1012–7

Patients with valvular heart disease presenting with sustained ventricular tachyarrhythmias or syncope: results of programmed ventricular stimulation and long-term follow-up [see comments] Martínez-Rubio A, et al. **Circulation** 1997 Jul 15;96(2):500–8. Comment in: Circulation 1997 Jul 15;96(2):386–7.

Valvular heart disease. **Curr Opin Cardiol** 1996 Mar; 11(2):B35–47

Valvular heart disease. **Curr Opin Cardiol** 1997 Mar; 12(2):B45–58

Tears in bioprosthetic heart valve leaflets without calcific degeneration. Haziza F, et al. **J Heart Valve Dis** 1996 Jan; 5(1):35–9

Valvular heart disease: recommendations for investigation and management. Summary of guidelines produced by a working group of the British Cardiac Society and the Research Unit of the Royal College of Physicians [see comments] Prendergast BD, et al. **J R Coll Physicians Lond** 1996 Jul–Aug;30(4):309–15. Comment in: J R Coll Physicians Lond 1996 Nov–Dec;30(6):589–90. Comment in: J R Coll Physicians Lond 1997 Jan–Feb;31(1):113–4. Comment in: J R Coll Physicians Lond 1997 May–Jun;31(3):341–2.

Valvular heart disease [letter; comment] Thomas TA. **J R Coll Physicians Lond** 1997 Jan–Feb;31(1):113–4. Comment on: J R Coll Physicians Lond 1996 Jul–Aug;30(4):309–15.

Valvular heart disease [published erratum appears in N Engl J Med 1997 Aug 14;337(7):507] Carabello BA, et al. **N Engl J Med** 1997 Jul 3;337(1):32–41 (99 ref.)

[Clinical activity of native valve endocarditis] Hayashi J, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):665–8 (Eng. Abstr.) **(Jpn)**

[Acquired valvular disease—changes of the etiologies, diagnostic methods and therapeutic methods, and their effects] Tabayashi K. **Ryoikibetsu Shokogun Shirizu** 1996; (13):355–8 (13 ref.) **(Jpn)**

BLOOD

Atypical elevation of creatine phosphokinase and isoenzyme (CK-MB) levels in a patient with mitral valve disease [letter] Hoffman U, et al. **Eur Heart J** 1996 Nov; 17(11):1764–5

Associations between atrial natriuretic peptides, echocardiographic findings and mortality in an elderly population sample [see comments] Iivanainen AM, et al. **J Intern Med** 1997 Apr;241(4):261–8. Comment in: J Intern Med 1997 Apr;241(4):257–9.

CHEMICALLY INDUCED

Report links appetite suppressants with heart disease. FDA encourages reporting of like events [news] **Am J Health Syst Pharm** 1997 Aug 15;54(16):1785, 1788

Fen-phen and risk of valvular disease [news] SoRelle R. **Circulation** 1997 Sep 16;96(6):1705–6

A dangerous duo? A combination of common diet drugs (fen-phen) may lead to heart valve disease [editorial] Boughner DR. **CMAJ** 1997 Sep 15;157(6):705–6

Mitral, aortic and tricuspid valvular heart disease associated with ergotamine therapy for migraine [letter] Wilke A, et al. **Eur Heart J** 1997 Apr;18(4):701

From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Aug 6;278(5):379

Valvular heart disease associated with fenfluramine-phentermine [see comments] Connolly HM, et al. **N Engl J Med** 1997 Aug 28;337(9):581–8. Comment in: N Engl J Med 1997 Aug 28;337(9):629–30.

Diet pills redux [editorial; comment] Curfman GD. **N Engl J Med** 1997 Aug 28;337(9):629–30. Comment on: N Engl J Med 1997 Aug 28;337(9):581–8. Comment on: N Engl J Med 1997 Aug 28;337(9):602–6.

Further cases of valvular heart disease associated with fenfluramine-phentermine [letter] Graham DJ, et al. **N Engl J Med** 1997 Aug 28;337(9):635

CLASSIFICATION

Intensity of murmur and severity of regurgitation [letter; comment] Babu AN. **Am J Med** 1996 Dec;101(6):664. Comment on: Am J Med 1996 Feb;100(2):149–56.

COMPLICATIONS

Oral disease burden in patients undergoing prosthetic heart valve implantation. Terezhalmy GT, et al. **Ann Thorac Surg** 1997 Feb;63(2):402–4

Giant lambl excrescences. An unusual source of cerebral embolism. Nighoghossian N, et al. **Arch Neurol** 1997 Jan; 54(1):41–4

Obstruction of the left main coronary ostium due to an aortic vegetation: survival after early surgery. Millaire A, et al. **Clin Infect Dis** 1996 Jan;22(1):192–3

Endothelium-dependent vasodilatation is not selectively impaired in patients with chronic heart failure secondary to valvular heart disease and congenital heart disease [see comments] Nakamura M, et al. **Eur Heart J** 1996 Dec; 17(12):1875–81. Comment in: Eur Heart J 1996 Dec;17(12):1775–7.

Patent ductus arteriosus with combined valvular disease at age 91. Satoh T, et al. **Intern Med** 1997 May;36(5):340–4 (19 ref.)

Echocardiographic assessment of mitral stenosis and its associated valvular lesions in 205 patients and lack of association with mitral valve prolapse. Sagie A, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):141–8

"Diverticula" of anterior mitral valve leaflet as a cause of subvalvular aortic stenosis. Agathos EA, et al. **J Heart Valve Dis** 1996 May;5(3):309–11

Peculiar patterns of aortic regurgitation and carotid pulse due to dysfunction of a Medtronic Hall prosthetic valve: a case report. Fukuda N, et al. **J Heart Valve Dis** 1996 May;5(3):283–5

Mitral regurgitation caused by mitral paraannular cyst. Sekine S, et al. **J Heart Valve Dis** 1997 Jan;6(1):67–8

An echocardiographic study of valvular heart disease associated with systemic lupus erythematosus [see comments] Roldan CA, et al. **N Engl J Med** 1996 Nov 7;335(19):1424–30. Comment in: N Engl J Med 1997 May 1;336(18):1324; discussion 1324–5.

Laparoscopic cholecystectomy in patients with cardiac disease: hemodynamic advantage of the abdominal wall retraction method. Uchikoshi F, et al. **Surg Laparosc Endosc** 1997 Jun;7(3):196–201

[Accessory mitral valve tissue as a rare cause of subaortic stenosis and valvular aortic insufficiency] Gamillscheg A, et al. **Z Kardiol** 1997 Jul;86(7):549–53 (Eng. Abstr.) **(Ger)**

[Maze operation for chronic atrial fibrillation with valvular heart diseases] Abe T, et al. **Kyobu Geka** 1996 Aug; 49(9):709–13; discusssion 13–15 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Intensity of murmur and severity of regurgitation [letter; comment] Babu AN. **Am J Med** 1996 Dec;101(6):664. Comment on: Am J Med 1996 Feb;100(2):149–56.

Isolated tricuspid valve endocarditis in nonaddicted patients: a diagnostic challenge. Nandakumar R, et al. **Am J Med Sci** 1997 Sep;314(3):207–12 (41 ref.)

Osteopontin is associated with bioprosthetic heart valve calcification in humans. Shen M, et al. **C R Acad Sci III** 1997 Jan;320(1):49–57

Valvular heart disease in systemic lupus erythematosus [editorial] Crawford MH. **Eur Heart J** 1997 Apr; 18(4):535–6

A case of infective endocarditis complicated with anterior mitral valve leaflet abscess [letter] Kumbasar SD, et al. **Eur Heart J** 1997 Jun;18(6):1035–6

Stress echocardiography beyond coronary artery disease. Schwammenthal E, et al. **Eur Heart J** 1997 Jun;18 Suppl D:D130–7 (62 ref.)

Mitral valve aneurysm without infective endocarditis. Saxena A, et al. **Indian Heart J** 1995 Sep–Oct;47(5):501–2

Magnetic resonance imaging in valvular heart disease. Schmidt M, et al. **Int J Card Imaging** 1997 Jun;13(3):219–31 (96 ref.)

Does this patient have an abnormal systolic murmur? [see comments] Etchells E, et al. **JAMA** 1997 Feb 19; 277(7):564–71 (78 ref.). Comment in: JAMA 1997 Feb 19;277(7):572. Comment in: JAMA 1997 May 28;277(20):1593–4; discussion 1594. Comment in: JAMA 1997 May 28;277(20):1594.

[Heart valve diseases] Globits S. **Radiologe** 1997 May; 37(5):341–50 (41 ref.) (Eng. Abstr.) **(Ger)**

[Aberrant papillary muscle causes wall motion alterations: diagnostic implications] Mingrone R, et al. **G Ital Cardiol** 1996 Dec;26(12):1431–5 (Eng. Abstr.) **(Ita)**

[Differential diagnosis of heart valves changes in patients with bacterial endocarditis] Korytnikov KI. **Klin Med (Mosk)** 1997;75(3):16–8 **(Rus)**

[Changes in the cerebral circulation in persons with acquired heart defects] Mikhaĭlenko AA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(2):29–33 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Current concepts of anticoagulant therapy in pregnancy. Barbour LA. **Obstet Gynecol Clin North Am** 1997 Sep; 24(3):499–521 (113 ref.)

[Outcome of cardiac valve ring abscesses after medical treatment: attempt to identify criteria of favorable prognosis] Tribouilloy C, et al. **Presse Med** 1996 Sep 28; 25(28):1276–80 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Calcification of the mitral valve annulus and of the aortic valve in patients with transplanted kidneys. Krauz E, et al. **Transplant Proc** 1996 Dec;28(6):3483–4

ETIOLOGY

Cardiac involvement in connective tissue diseases and primary antiphospholipid syndrome: echocardiographic assessment and correlation with antiphospholipid antibodies. Gabrielli F, et al. **Acta Cardiol** 1996;51(5):425–39

Regression of metastatic carcinoid tumor after valvular surgery for carcinoid heart disease. Rayson D, et al. **Cancer** 1997 Feb 1;79(3):605–11

Endocarditis as a complication of a transjugular intrahepatic portosystemic stent-shunt. Finkielman JD, et al. **Clin Infect Dis** 1996 Feb;22(2):385–6

Etiology of valvular heart disease. Rose AG. **Curr Opin Cardiol** 1996 Mar;11(2):98–113 (106 ref.)

Successful treatment of Staphylococcus lugdunensis endocarditis complicated by multiple emboli: a case report and review of the literature. Koh TW, et al. **Int J Cardiol** 1996 Jul 26;55(2):193–7 (18 ref.)

Acquired left ventricular to right atrial intracardiac shunt after myocardial infarction: a case report and review of the literature. Newman JN Jr, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):716–20 (21 ref.)

Chylous ascites associated with atrioventricular valve regurgitation after Blalock-Taussig shunt. Ogasawara M, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):501–3

Valvular heart disease and systemic lupus erythematosus [letter; comment] Piette JC, et al. **N Engl J Med** 1997 May 1;336(18):1324; discussion 1324–5. Comment on: N Engl J Med 1996 Nov 7;335(19):1424–30.

Valvular dysfunction in antiphospholipid syndrome: prevalence, clinical features, and treatment. Nesher G, et al. **Semin Arthritis Rheum** 1997 Aug;27(1):27–35 (42 ref.)

[Coping with pathological changes in heart of patients with collagen disease] Matsumoto Y. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1833–9 (5 ref.) **(Jpn)**

[Two siblings of galactosialidosis with marked progression of cardiac involvement during 10 years] Hisahara S, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):562–5 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Involvement of cardiac valves in antiphospholipid syndrome] Sergakova LM, et al. **Klin Med (Mosk)** 1996; 74(9):39–42 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Prevalence and clinical significance of antiphospholipid antibodies in heart valve disease: a case-control study. Bouillanne O, et al. **Am Heart J** 1996 Oct;132(4):790–5

Isolated tricuspid valve disease in a patient with elevated levels of anticardiolipin antibodies. Sastry BK. **Indian Heart J** 1997 Jan–Feb;49(1):87–9

Relationship of preoperative antiendotoxin core antibodies and adverse outcomes following cardiac surgery. Bennett-Guerrero E, et al. **JAMA** 1997 Feb 26; 277(8):646–50

[Anti-endothelial antibodies and defects of heart valves in antiphospholipid syndrome: analysis of pathogenic mechanisms] Nasonov EL, et al. **Klin Med (Mosk)** 1997; 75(2):17–22 **(Rus)**

METABOLISM

Relationship between alterations in lymphocyte and myocardial beta-adrenoceptor density in patients with left heart valvular disease. Dzimiri N, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul;23(6–7):498–502

Effects of different left ventricular load conditions on myocardial beta-adrenoceptor density in patients with rheumatic heart valvular disease. Dzimiri N, et al. **Gen Pharmacol** 1996 Sep;27(6):1019–23

Zinc in rheumatic heart valves [letter] Bhattacharya SK, et al. **J Assoc Physicians India** 1995 Jan;43(1):72

MICROBIOLOGY

Surgical treatment of Brucella endocarditis. Quiroga J, et al. **Cardiovasc Surg** 1996 Apr;4(2):227–30

MORTALITY

25 years of aortic valve replacement using mechanical valves. Risk factors for early and late mortality [see comments] Hokken RB, et al. **Eur Heart J** 1997 Jul;18(7):1157–65. Comment in: Eur Heart J 1997 Jul;18(7):1043–4.

Associations between atrial natriuretic peptides, echocardiographic findings and mortality in an elderly population sample [see comments] Iivanainen AM, et al. **J Intern Med** 1997 Apr;241(4):261–8. Comment in: J Intern Med 1997 Apr;241(4):257–9.

[Follow-up results of surgery of acquired heart valve diseases and their improvement] Yagiu K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):333–5 **(Jpn)**

[Analysis of maternal and fetal risk in 594 pregnancies with heart disease] Wada H, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Apr; 48(4):255–62 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Effects of increasing flow rate on aortic stenotic indices: evidence from percutaneous transvenous balloon dilatation of the mitral valve in patients with combined aortic and mitral stenosis [published erratum appears in Heart 1997 Mar;77(3):294] Lee TM, et al. **Heart** 1996 Dec;76(6):490–4

Aortic valve replacement in small aortic annulus with or without annular enlargement. Kitamura M, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S289–93

[Clinicopathological analysis of rheumatic heart disease] Okada R. **J Cardiol** 1996;27 Suppl 2:3–11; discussion 12–3 (Eng. Abstr.) **(Jpn)**

[Surgical pathology of infective endocarditis] Saitoh F, et al. **J Cardiol** 1996;27 Suppl 2:91–4; discussion 95 (Eng. Abstr.) **(Jpn)**

[Variations in mesenchymal cell activity between rheumatic and non-rheumatic valve disease] Takeda A, et al. **J Cardiol** 1997;29 Suppl 2:29–35 (Eng. Abstr.) **(Jpn)**

HEART VALVE DISEASES

PHYSIOPATHOLOGY

Requirement for accurate measurement of regurgitant stroke volume by the combined continuous-wave Doppler and color Doppler flow convergence method. Nozaki S, et al. **Am Heart J** 1997 Jan;133(1):19-28

Fluoroscopic functional evaluation of bileaflet prostheses: effect of different intraoperative valve orientation. Montorsi P, et al. **Am J Card Imaging** 1996 Apr;10(2):101-7

Significance of sustained ventricular arrhythmias in patients with valvular heart disease [editorial; comment] Wellens HJ. **Circulation** 1997 Jul 15;96(2):386-7. Comment on: Circulation 1997 Jul 15;96(2):500-8.

Hemodynamic characterization of the CarboMedics mitral valve prosthesis. Bjørnerheim R, et al. **J Heart Valve Dis** 1997 Mar;6(2):115-22

Magnetic resonance imaging of blood velocity distribution around St. Jude medical aortic valves in patients. Houlind K, et al. **J Heart Valve Dis** 1996 Sep;5(5):511-7

[From overload to contractile deficiency in valvular cardiopathy] Scognamiglio R, et al. **Cardiologia** 1995 Dec; 40(12 Suppl 1):443-50 **(Ita)**

[Myocardial adrenergic nerve activity in valvular diseases assessed by iodine-123-metaiodobenzylguanidine myocardial scintigraphy] Imamura Y, et al. **J Cardiol** 1997; 29 Suppl 2:21-6 (Eng. Abstr.) **(Jpn)**

PSYCHOLOGY

Predicting completeness of symptom relief after major heart surgery. Jenkins CD, et al. **Behav Med** 1996 Summer; 22(2):45-57

RADIONUCLIDE IMAGING

[Myocardial adrenergic nerve activity in valvular diseases assessed by iodine-123-metaiodobenzylguanidine myocardial scintigraphy] Imamura Y, et al. **J Cardiol** 1997; 29 Suppl 2:21-6 (Eng. Abstr.) **(Jpn)**

REHABILITATION

[Evaluation of the effectiveness of an ambulatory after-care rehabilitation program] Röseler S, et al. **Gesundheitswesen** 1997 Apr;59(4):236-41 (Eng. Abstr.) **(Ger)**

[Possibilities for greater flexibility in a cardiologic rehabilitation clinic by supplementary ambulatory/partial inpatient therapeutic services] Karoff M, et al. **Rehabilitation (Stuttg)** 1996 Nov;35(4):205-10 (Eng. Abstr.) **(Ger)**

SURGERY

Functional status after cardiac surgery in elderly people [letter; comment] Rozzini R, et al. **Age Ageing** 1996 Sep; 25(5):413. Comment on: Age Ageing 1996 Jan;25(1):8-11.

MR and cerebrospinal fluid enzymes as sensitive indicators of subclinical cerebral injury after open-heart valve replacement surgery. Steinberg GK, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):205-12; discussion 213-5

Fluoroscopic functional evaluation of bileaflet prostheses: effect of different intraoperative valve orientation. Montorsi P, et al. **Am J Card Imaging** 1996 Apr;10(2):101-7

Efficacy of serial electrical cardioversion therapy in patients with chronic atrial fibrillation after valve replacement and implications for surgery to cure atrial fibrillation. Crijns HJ, et al. **Am J Cardiol** 1996 Nov 15;78(10):1140-4

Median sternotomy wound complication: the effect of reconstruction on lung function. Cohen M, et al. **Ann Plast Surg** 1997 Jul;39(1):36-43

Determinants of longer duration of endotracheal intubation after adult cardiac operations. Bando K, et al. **Ann Thorac Surg** 1997 Apr;63(4):1026-33

Perioperative risk and long-term results of heart transplantation after previous cardiac operations. Carrel T, et al. **Ann Thorac Surg** 1997 Apr;63(4):1133-7

Variable response to inhaled nitric oxide after cardiac surgery. Fullerton DA, et al. **Ann Thorac Surg** 1997 May; 63(5):1251-6

Addition of a thiazide: an effective remedy for furosemide resistance after cardiac operations. Vánky F, et al. **Ann Thorac Surg** 1997 Apr;63(4):993-7

Regression of metastatic carcinoid tumor after valvular surgery for carcinoid heart disease. Rayson D, et al. **Cancer** 1997 Feb 1;79(3):605-11

Issues in surgical treatment of endocarditis including intraoperative and postoperative management. Drinkwater DC Jr, et al. **Cardiol Clin** 1996 Aug;14(3):451-64 (32 ref.)

Open-heart surgery in Jehovah's Witness patients. Chikada M, et al. **Cardiovasc Surg** 1996 Jun;4(3):311-4

Cardiac surgery in the ninth decade of life. Glock Y, et al. **Cardiovasc Surg** 1996 Apr;4(2):241-5

Long-term outcome of patients who received Starr-Edwards valves between 1965 and 1977. Hayashi J, et al. **Cardiovasc Surg** 1996 Jun;4(3):281-7

Operative risks of the maze procedure associated with mitral valve surgery. Melo JQ, et al. **Cardiovasc Surg** 1997 Feb; 5(1):112-6

Gastric intramucosal pH and hepatic venous oximetry after cardiopulmonary bypass in valve replacement patients. Takahashi T, et al. **Cardiovasc Surg** 1996 Jun;4(3):308-10

Clinical experience with the first 100 ATS heart valve implants. Van Nooten G, et al. **Cardiovasc Surg** 1996 Jun; 4(3):288-92

Advances in surgical treatment of acquired valve disease [published erratum appears in Curr Opin Cardiol 1996 Jul;11(4):454] Antunes MJ, et al. **Curr Opin Cardiol** 1996 Mar;11(2):139-54 (111 ref.)

Diagnosis and management of prosthetic valve dysfunction. Binder T, et al. **Curr Opin Cardiol** 1996 Mar;11(2):131-8 (60 ref.)

Multivalvular disease [editorial] Griffin BP. **Curr Opin Cardiol** 1996 Mar;11(2):93-7 (41 ref.)

Mitral, tricuspid, and aortic valve repair or reconstruction. Hammond GL, et al. **Curr Opin Cardiol** 1997 Mar; 12(2):100-7 (47 ref.)

Allograft valves for aortic and mitral valve replacement. Reardon MJ, et al. **Curr Opin Cardiol** 1997 Mar; 12(2):114-22 (30 ref.)

Treating the non-electrical risks of atrial fibrillation. Gershlick AH. **Eur Heart J** 1997 May;18 Suppl C:C19-26 (39 ref.)

Mortality in patients supported by intra-aortic balloon pump in the course of cardiac surgery was related to perioperative myocardial infarction. Aksnes J, et al. **Eur J Cardiothorac Surg** 1996;10(6):408-11

Editorial comment on hemodynamic evaluation of the CarboMedics R, St Jude Medical HP and Sorin-Bicarbon valve in patients with small aortic anulus: Noera et al [editorial; comment] Chambers J. **Eur J Cardiothorac Surg** 1997 Mar;11(3):477-8. Comment on: Eur J Cardiothorac Surg 1997 Mar;11(3):473-5.

Mechanical valve in aortic position is a valid option in children and adolescents. Champsaur G, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):117-22

Open chest and delayed sternal closure after cardiac surgery. Christenson JT, et al. **Eur J Cardiothorac Surg** 1996; 10(5):305-11

Valve replacement in the small aortic annulus: prospective randomized trial of St. Jude with Medtronic Hall. Fiore AC, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):485-91; discussion 491-2

Are pulmonary homografts subjected to pulmonary hypertension more appropriate for aortic valve replacement than normal pulmonary homografts? Results of echocardiography in a multicentric study. Gaudino M, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):676-81

IMA use in combined valve surgery and coronary artery bypass grafting [letter; comment] Herijgers P, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):594-5. Comment on: Eur J Cardiothorac Surg 1996;10(4):248-52.

Phosphatidylcholine coated chest drains: are they better than conventional drains after open heart surgery? Kumar P, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):769-73

Hemodynamic evaluation of the Carbomedics R, St Jude Medical HP and Sorin-Bicarbon valve in patients with small aortic annulus [see comments] Noera G, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):473-5; discussion 475-6. Comment in: Eur J Cardiothorac Surg 1997 Mar;11(3):477-8.

Vocal cord dysfunction after cardiac surgery: an overlooked complication. Shafei H, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):564-6

Long-term relative survival after primary heart valve replacement. Ståhle E, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):81-91

Experience with cardiac tamponade following open heart surgery. Ball JB, et al. **Heart Vessels** 1996;11(1):39-43 (41 ref.)

Clinical course and hemodynamic observations after supraannular mitral valve replacement in infants and children. Adatia I, et al. **J Am Coll Cardiol** 1997 Apr; 29(5):1089-94

Thoracotomy approach for congenital and acquired heart defects: its possible applications in the current era. Cherian KM, et al. **J Card Surg** 1996 Jan-Feb;11(1):37-45

Acetylcholine reactivity in the pulmonary artery during cardiac surgery in patients with ischemic or valvular heart disease. Angdin M, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):458-62

Anticoagulant related complications in elderly patients with St. Jude mechanical valve prostheses. Arom KV, et al. **J Heart Valve Dis** 1996 Sep;5(5):505-10

Hemodynamic characterization of the CarboMedics mitral valve prosthesis. Bjørnerheim R, et al. **J Heart Valve Dis** 1997 Mar;6(2):115-22

Intracardiac air clearing in valvular surgery guided by transesophageal echocardiography. Dalmas JP, et al. **J Heart Valve Dis** 1996 Sep;5(5):553-7

Transcranial high-intensity Doppler signals in patients with mechanical heart valve prostheses: their relationship with abnormal intracavitary echoes. Deklunder G, et al. **J Heart Valve Dis** 1996 Nov;5(6):662-7

Wear patterns in the Sorin Bicarbon mechanical heart valve: a clinical explant study. Hasenkam JM, et al. **J Heart Valve Dis** 1997 Mar;6(2):105-14

Tears in bioprosthetic heart valve leaflets without calcific degeneration. Haziza F, et al. **J Heart Valve Dis** 1996 Jan; 5(1):35-9

Tricuspid valve replacement subsequent to previous open heart surgery. Hornick P, et al. **J Heart Valve Dis** 1996 Jan;5(1):20-5

Censored lifetime data in adaptive neural networks. Katz AS, et al. **J Heart Valve Dis** 1996 Jan;5(1):84-9

Tricuspid and pulmonary valve replacement in carcinoid heart disease: two case reports and a review of the literature. Konstantinov IE, et al. **J Heart Valve Dis** 1997 Mar;6(2):193-7 (35 ref.)

Aortic and mitral valve replacement with the Carpentier-Edwards pericardial bioprosthesis: 10-year results. Murakami T, et al. **J Heart Valve Dis** 1996 Jan; 5(1):45-9

Aortic valve replacement in patients 50 years old or younger with the St. Jude Medical valve: 14-year experience. Tatoulis J, et al. **J Heart Valve Dis** 1996 Sep;5(5):491-7

Six-and-half years' experience with the St. Jude BioImplant porcine prosthesis. Triggiani M, et al. **J Heart Valve Dis** 1997 Mar;6(2):138-44

Carpentier-Edwards supra-annular bioprosthesis in the aortic position. Has altered design affected performance? Wilson ES, et al. **J Heart Valve Dis** 1996 Jan;5(1):40-4

Freehand subcoronary aortic valve and aortic root replacement with cryopreserved homografts: intermediate term results. Yankah AC, et al. **J Heart Valve Dis** 1996 Sep;5(5):498-504

Effective control of refractory pulmonary hypertension after cardiac operations. Fullerton DA, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):363-8; discussion 368-70

Recovery of atrial function after combined treatment with surgical repair for organic heart disease and maze procedure for atrial fibrillation. Ueshima K, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):214-5

Ultrasonic decalcification of calcified valve and annulus during heart valve replacement. Unal M, et al. **Tex Heart Inst J** 1996;23(2):85-7

Is a bioprosthesis preferable in tricuspid valve replacement? Hayashi J, et al. **Thorac Cardiovasc Surg** 1996 Oct; 44(5):230-3

Radiographic detection of single strut leg separations as a putative basis for prophylactic explantation of Björk-Shiley convexo-concave heart valves. Chandler JG, et al. **World J Surg** 1996 Oct;20(8):953-9; discussion 959-60

[Intermediary results with the CarboMedics bileaflet valvular prosthesis] Aupart M, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90(4):457-62 (27 ref.) (Eng. Abstr.) **(Fre)**

[Transplantation of aortic and mitral valves: permanent valve replacement without anticoagulation?] Vetter HO, et al. **Herz** 1997 Apr;22(2):120-1 **(Ger)**

[Hemorheological effects of autologous blood storage before surgery for cardiac valvular diseases] Ichikawa H, et al. **J Cardiol** 1997;29 Suppl 2:37-40 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of active infective endocarditis] Asada K, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):669-72 (Eng. Abstr.) **(Jpn)**

[Clinical problems in surgical treatment for active infective endocarditis] Emmoto T, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):630-5 (Eng. Abstr.) **(Jpn)**

[Surgical treatment for active infective endocarditis] Fukunaga S, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):661-4 (Eng. Abstr.) **(Jpn)**

[Successful redo-AVR with cryopreserved allograft for prosthetic valve endocarditis : report of a case] Imanaka K, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):693-6 (Eng. Abstr.) **(Jpn)**

[Heart valvular disease in patients 70 years old and older] Kawano H, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):645-8 (Eng. Abstr.) **(Jpn)**

[Long-term results and special issues of operation for infective endocarditis] Kitamura M, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):636-9 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of infective endocarditis] Matsubayashi K, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):646-51 (Eng. Abstr.) **(Jpn)**

[Early and late results of cardiac and thoracic aortic surgery in patients older than 75 years from a quality of life point of view] Mitsumaru A, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):718-21 (Eng. Abstr.) **(Jpn)**

[A case report of aortic root replacement with fresh aortic homograft for valve detachment due infective endocarditis] Niwaya K, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):688-92 (Eng. Abstr.) **(Jpn)**

[Results of cardiac operation and thoracic aortic operation in patients aged 75 years or older] Shichijo T, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):714-7 (Eng. Abstr.) **(Jpn)**

[Surgical treatment for active infective endocarditis : septic embolization and mycotic aneurysms] Suzuki S, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):652-5 (Eng. Abstr.) **(Jpn)**

[Early and late results of surgical intervention for 32 active infective endocarditis patients in last 10 years] Tsukamoto M, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):640-5 (Eng. Abstr.) **(Jpn)**

[Surgical-treatment for active infective endocarditis] Yoshida M, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):656-60 (Eng. Abstr.) **(Jpn)**

[Long-term follow-up results of surgery of acquired heart valve diseases. Evaluation of the factors affecting the results by using a Cox proportional hazard model] Kitamura M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):338-40 **(Jpn)**

[Selection of surgical procedures in heart valve diseases based on follow-up results: comparative evaluation of valve replacement and valvoplasty] Kitamura M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):406-7 **(Jpn)**

[Valve replacement and valvoplasty in combined valvular diseases] Noji S, et al.
Nippon Kyobu Geka Gakkai Zasshi 1997 Mar;45(3):407–10 **(Jpn)**

[Evaluation of factors that affect the postoperative prognosis during the follow-up period] Noji S, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 Mar;44(3):336–8 **(Jpn)**

[Left atrial isolation for chronic atrial fibrillation associated with valvular disease and coronary artery disease in an 82-year-old man] Okada K, et al.
Nippon Kyobu Geka Gakkai Zasshi 1997 Feb;45(2):191–4 (Eng. Abstr.) **(Jpn)**

[Follow-up results of surgery of acquired heart valve diseases and their improvement] Yagiu K, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 Mar;44(3):333–5 **(Jpn)**

[Clinical evaluation of low cardiac output syndrome following adult open heart surgery] Kazui T, et al.
Rinsho Kyobu Geka 1989 Jun;9(3):252–7 (Eng. Abstr.) **(Jpn)**

[Combined valvular and coronary artery surgery] Yamazaki Y, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):387–91 (Eng. Abstr.) **(Jpn)**

[Aortic valve replacement with pulmonary autograft (Ross procedure). Initial experience] Affonso da Costa FD, et al. **Arq Bras Cardiol** 1996 Jan;66(1):15–9 (Eng. Abstr.) **(Por)**

THERAPY

Valvular heart disease: putting guidelines into practice [editorial] Wilkins GT. **BMJ** 1997 May 17;314(7092):1428–9

Anticoagulation for prosthetic valves during pregnancy [letter; comment] Mayosi BM, et al. **Clin Cardiol** 1996 Dec; 19(12):921. Comment on: Clin Cardiol 1996 Sep;19(9):682.

Transesophageal echocardiographic evaluation of native valvular disease and repair. Savino JS. **Crit Care Clin** 1996 Apr;12(2):321–81 (122 ref.)

Rheumatic heart disease. Feldman T. **Curr Opin Cardiol** 1996 Mar;11(2):126–30 (25 ref.)

Valve repair and replacement in children [see comments] Lewis DA, et al. **Curr Opin Cardiol** 1997 Jan;12(1):63–9 (37 ref.). Comment in: Curr Opin Cardiol 1997 Jan;12(1):41–3.

Valvular disease in pregnancy. Oakley CM.
Curr Opin Cardiol 1996 Mar;11(2):155–9 (28 ref.)

Noncoronary Cardiac Interventions. The first report of the Noncoronary Cardiac Interventions Registry of India, the Cardiological Society of India. Bahl VK, et al.
Indian Heart J 1997 Jan–Feb;49(1):97–101

[Interventional treatment of heart valve diseases] Garachemani A, et al. **Schweiz Rundsch Med Prax** 1997 Apr 16;86(16):666–71 (71 ref.) (Eng. Abstr.) **(Ger)**

[Interventional cardiology in pediatrics] Pfammatter JP. **Schweiz Rundsch Med Prax** 1997 Apr 23;86(17):693–9 (35 ref.) (Eng. Abstr.) **(Ger)**

[Experience in catheter balloon dilatation of the heart valves abd aorta in 1024 patients] Silin VA, et al.
Vestn Rentgenol Radiol 1996 Sep–Oct;(5):10–2 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Cardiac involvement in connective tissue diseases and primary antiphospholipid syndrome: echocardiographic assessment and correlation with antiphospholipid antibodies. Gabrielli F, et al. **Acta Cardiol** 1996;51(5):425–39

Requirement for accurate measurement of regurgitant stroke volume by the combined continuous-wave Doppler and color Doppler flow convergence method. Nozaki S, et al.
Am Heart J 1997 Jan;133(1):19–28

Cardiac valvular vegetations in cancer patients: a prospective echocardiographic study of 200 patients. Edoute Y, et al.
Am J Med 1997 Mar;102(3):252–8

Transesophageal echocardiographic evaluation of native valvular disease and repair. Savino JS. **Crit Care Clin** 1996 Apr;12(2):321–81 (122 ref.)

Transesophageal echocardiography and the perioperative management of valvular heart disease. Kraker PK, et al.
Curr Opin Cardiol 1997 Mar;12(2):108–13 (22 ref.)

Assessment of myocardial distribution of retrograde and antegrade cardioplegic solution in the same patients. Hirata N, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):242–7

Early identification of patients with native valve infectious endocarditis at risk for major complications by initial clinical presentation and baseline echocardiography. Goldman ME, et al. **Int J Cardiol** 1995 Dec;52(3):257–64

Determination of regurgitant flow and volume by integrating actual proximal velocities over hemispheres (IPROV) in two orthogonal planes. Eidenvall L, et al.
J Am Soc Echocardiogr 1996 Jul–Aug;9(4):527–38

Embolic thrombus on mitral anulus calcification. Malaterre HR, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec; 9(6):894–6

Infective endocarditis of the tricuspid valve in an orthotopic heart transplant recipient. Stewart MJ, et al.
J Heart Lung Transplant 1996 Jun;15(6):646–9

Transcranial high-intensity Doppler signals in patients with mechanical heart valve prostheses: their relationship with abnormal intracavitary echoes. Deklunder G, et al.
J Heart Valve Dis 1996 Nov;5(6):662–7

Valvular heart disease and systemic lupus erythematosus [letter; comment] McCarthy GM, et al. **N Engl J Med** 1997 May 1;336(18):1324; discussion 1324–5. Comment on: N Engl J Med 1996 Nov 7;335(19):1424–30.

An echocardiographic study of valvular heart disease associated with systemic lupus erythematosus [see comments] Roldan CA, et al. **N Engl J Med** 1996 Nov 7;335(19):1424–30. Comment in: N Engl J Med 1997 May 1;336(18):1324; discussion 1324–5.

Stress echocardiography for evaluation of hemodynamics: valvular heart disease, prosthetic valve function, and pulmonary hypertension. Bach DS. **Prog Cardiovasc Dis** 1997 May–Jun;39(6):543–54 (37 ref.)

[Value of echocardiography in the study of aortic valve homografts and autografts] Habib G, et al.
Arch Mal Coeur Vaiss 1996 Oct;89(10):1267–76 (Eng. Abstr.) **(Fre)**

[Dynamic 3-dimensional reconstruction of the heart using multiplanar transesophageal echocardiography] Hofmann T, et al. **Herz** 1997 Jun;22(3):176–8 (8 ref.) **(Ger)**

[Transesophageal echocardiography (Part 4): clinical application. Part 2] Hayashi H, et al. **Masui** 1996 Sep; 45(9):1105–14 (7 ref.) (Eng. Abstr.) **(Jpn)**

VETERINARY

Physiological valvular regurgitation in clinically normal young racehorses: prevalence and two-dimensional colour flow Doppler echocardiographic characteristics. Marr CM, et al. **Equine Vet J Suppl** 1995 Sep;(19):56–62

The problem of inherited diseases. 5: Valvular disease in Cavalier King Charles spaniels [news] Swift S.
J Small Anim Pract 1996 Oct;37(10):505–6

Blood and serous cysts in the atrioventricular valves of the bovine heart. Marcato PS, et al. **Vet Pathol** 1996 Jan; 33(1):14–21

HEART VALVE PROLAPSE

ULTRASONOGRAPHY

Diastolic prolapse of the pulmonary valve with regurgitation. Ansari A, et al. **Tex Heart Inst J** 1997;24(1):72–3

HEART VALVE PROSTHESIS

MR and cerebrospinal fluid enzymes as sensitive indicators of subclinical cerebral injury after open-heart valve replacement surgery. Steinberg GK, et al.
AJNR Am J Neuroradiol 1996 Feb;17(2):205–12; discussion 213–5

Safety of MR imaging in patients who have retained metallic materials after cardiac surgery. Hartnell GG, et al.
AJR Am J Roentgenol 1997 May;168(5):1157–9

Double-balloon dilatation of a stenosed bioprosthetic tricuspid valve in repaired tetralogy of Fallot. Benito F, et al. **Am Heart J** 1996 Oct;132(4):891–2

Contrast enhancement of mitral regurgitation to estimate left ventricular systolic pressure. Donovan CL, et al.
Am Heart J 1996 Oct;132(4):884–6

Radiographic detection of single-leg fracture in Björk-Shiley Convexo-Concave prosthetic valves: a phantom model study. Gilchrist IC, et al. **Am Heart J** 1997 Feb; 133(2):197–202

Progressive dehiscence and dynamic compression of an aortic root homograft: detection and characterization by transesophageal echocardiography. Nagueh SF, et al.
Am Heart J 1996 Nov;132(5):1070–3

Doppler echocardiographic assessment of the new ATS medical prosthetic valve in the aortic position. Karpuz H, et al. **Am J Card Imaging** 1996 Oct;10(4):254–60

Fluoroscopic functional evaluation of bileaflet prostheses: effect of different intraoperative valve orientation. Montorsi P, et al. **Am J Card Imaging** 1996 Apr;10(2):101–7

Usefulness of transesophageal echocardiography in the assessment of aortic graft dehiscence. Ballal RS, et al.
Am J Cardiol 1997 Aug 1;80(3):372–6

Estimation of pulmonary artery pressure by spectral analysis of the second heart sound. Chen D, et al.
Am J Cardiol 1996 Oct 1;78(7):785–9

Improvement in mitral regurgitation after aortic valve replacement. Harris KM, et al. **Am J Cardiol** 1997 Sep 15;80(6):741–5

Nonfatal stent fracture in porcine Wessex xenografts implanted in the mitral position. Ius P, et al.
Am J Cardiol 1996 Oct 15;78(8):972–3

Transthoracic echocardiographic assessment of periprosthetic mitral regurgitation using intravenous injection of sonicated albumin. Rodrigues AG, et al.
Am J Cardiol 1997 Mar 15;79(6):829–34

Comparison of age, gender, number of aortic valve cusps, concomitant coronary artery bypass grafting, and magnitude of left ventricular-systemic arterial peak systolic gradient in adults having aortic valve replacement for isolated aortic valve stenosis. Stephan PJ, et al.
Am J Cardiol 1997 Jan 15;79(2):166–72

Effects of dobutamine on aortic valve indexes in asymptomatic patients with bileaflet mechanical prostheses in the aortic valve position. Tsai CH, et al.
Am J Cardiol 1997 Jun 1;79(11):1546–9

Usefulness of dobutamine echocardiography in the hemodynamic assessment of mechanical prostheses in the aortic valve position. Zabalgoitia M, et al.
Am J Cardiol 1997 Aug 15;80(4):523–6

Does gallstone formation after open cardiac surgery result only from latent hemolysis by replaced valves? [see comments] Azemoto R, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2185–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1069–70.

Embolic stroke in a pregnant patient with a mechanical heart valve on optimal heparin therapy. Watson WJ, et al.
Am J Perinatol 1996 Aug;13(6):371–2

Perioperative changes of plasma endothelin-1 concentrations in patients undergoing cardiac valve surgery. Huang CH, et al. **Anaesth Intensive Care** 1996 Jun;24(3):342–7

A comparative study of the vasodilator effects of prostaglandin E1 in patients with pulmonary hypertension after mitral valve replacement and with adult respiratory distress syndrome. Kunimoto F, et al. **Anesth Analg** 1997 Sep;85(3):507–13

Haemophilus parainfluenzae infective endocarditis. Lee P, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):761–2 (12 ref.)

Steady flow velocity field and turbulent stress mappings downstream of a porcine bioprosthetic aortic valve in vitro. Lim WL, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):86–95

Median sternotomy wound complication: the effect of reconstruction on lung function. Cohen M, et al.
Ann Plast Surg 1997 Jul;39(1):36–43

Aortic valve replacement in the elderly. Risk factors and long-term results. Tseng EE, et al. **Ann Surg** 1997 Jun; 225(6):793–802; discussion 802–4

No-react detoxification process: a superior anticalcification method for bioprostheses. Abolhoda A, et al.
Ann Thorac Surg 1996 Dec;62(6):1724–30

Fate of trileaflet equine pericardial extracardiac conduit used for the correction of anomalies having pulmonic ventricle-pulmonary arterial discontinuity. Ando M, et al.
Ann Thorac Surg 1997 Jul;64(1):154–8

Allograft root on closed pulmonary valve for subaortic obstruction in double-inlet left ventricle with transposition of the great arteries. Bogers AJ, et al.
Ann Thorac Surg 1997 Feb;63(2):425–8

Anticoagulation in children with mechanical valve prostheses. Bradley SM, et al. **Ann Thorac Surg** 1997 Jul; 64(1):30–4; discussion 35–6

Aortic valve replacement with a pericardial bioprosthesis [letter; comment] Carpentier AF. **Ann Thorac Surg** 1997 Feb;63(2):599–600. Comment on: Ann Thorac Surg 1995 Dec;60(6):1836–44.

Preservation of anterior and posterior leaflet in mitral valve replacement with a tilting-disc valve. Choh JH.
Ann Thorac Surg 1997 Jul;64(1):271–3

Left ventricular mass regression early after aortic valve replacement. Christakis GT, et al. **Ann Thorac Surg** 1996 Oct;62(4):1084–9

1989: Right thoracotomy, femorofemoral bypass, and deep hypothermia for re-replacement of the mitral valve. Updated in 1997. Cohn LH. **Ann Thorac Surg** 1997 Aug; 64(2):578–9

Aortic approach to retained mitral leaflet after mitral valve replacement [letter; comment] Cowgill LD, et al.
Ann Thorac Surg 1997 Aug;64(2):593–4. Comment on: Ann Thorac Surg 1997 Feb;63(2):541–3.

Prosthetic mitral valve thrombosis after replacement with preservation of all chordae [letter; comment] Demirtaş MM. **Ann Thorac Surg** 1997 Feb;63(2):600–1. Comment on: Ann Thorac Surg 1996 Jul;62(1):179–83.

Open heart operations after renal transplantation. Dresler C, et al. **Ann Thorac Surg** 1997 Jan;63(1):143–6

Twenty-year clinical experience with porcine bioprostheses. Fann JI, et al. **Ann Thorac Surg** 1996 Nov;62(5):1301–11; discussion 1311–2

An alternative airway in cardiac surgery? [letter] Ghosh S, et al. **Ann Thorac Surg** 1997 Mar;63(3):921–2

Thirty-year results of Starr-Edwards prostheses in the aortic and mitral position. Gödje OL, et al. **Ann Thorac Surg** 1997 Mar;63(3):613–9

Mitral valve replacement and tricuspid valve repair after cardiac transplantation. Goldstein DJ, et al.
Ann Thorac Surg 1997 May;63(5):1463–5

Refinement of the alpha aminooleic acid bioprosthetic valve anticalcification technique. Gott JP, et al.
Ann Thorac Surg 1997 Jul;64(1):50–8

Composite aortic root replacement with direct coronary artery implantation. Hilgenberg AD, et al.
Ann Thorac Surg 1996 Oct;62(4):1090–5

Supplement: proceedings of the VI International Symposium on Cardiac Bioprostheses [letter; comment] Jamieson WR. **Ann Thorac Surg** 1997 Jul;64(1):293–4. Comment on: Ann Thorac Surg 1996 Sep;62(3):940–1.

Dynamic evaluation of the 21-mm Medtronic Intact aortic bioprosthesis by dobutamine echocardiography. Kadir I, et al. **Ann Thorac Surg** 1997 Apr;63(4):1128–32

Cardiopulmonary bypass in pregnancy [letter; comment] Kole SD, et al. **Ann Thorac Surg** 1997 Mar;63(3):915–6. Comment on: Ann Thorac Surg 1996 Jan;61(1):259–68.

Results of valve replacement with mechanical and biological prostheses in chronic renal dialysis patients. Lucke JC, et al. **Ann Thorac Surg** 1997 Jul;64(1):129–32; discussion 132–3

Impact of size mismatch and left ventricular function on performance of the St. Jude disc valve after aortic valve replacement. Lund O, et al. **Ann Thorac Surg** 1997 May; 63(5):1227–34

Hemodynamic performance of small aortic valve bioprostheses: is there a difference? McDonald ML, et al.

Ann Thorac Surg 1997 Feb;63(2):362–6
Synergistic immunosuppression caused by high–dose methylprednisolone and cardiopulmonary bypass. Mayumi H, et al. **Ann Thorac Surg** 1997 Jan;63(1):129–37
Drawback of aortoplasty for aneurysm of the ascending aorta associated with aortic valve disease. Mueller XM, et al. **Ann Thorac Surg** 1997 Mar;63(3):762–6; discussion 766–7
Long–term follow–up of small (size 20 and 21) Medtronic–Hall aortic valve prostheses. Obadia JF, et al. **Ann Thorac Surg** 1997 Aug;64(2):421–5
Medtronic intact porcine bioprosthesis [letter; comment] Odell JA. **Ann Thorac Surg** 1997 Apr;63(4):1218–9. Comment on: Ann Thorac Surg 1996 Sep;62(3):940–1.
Aortic valve replacement after previous coronary artery bypass grafting. Odell JA, et al. **Ann Thorac Surg** 1996 Nov;62(5):1424–30 (24 ref.)
Event status of the Starr–Edwards aortic valve to 20 years: a benchmark for comparison. Orszulak TA, et al. **Ann Thorac Surg** 1997 Mar;63(3):620–6
Risk of bacteremia complicating valve replacement in the presence of colon cancer [letter] Prabhakar G, et al. **Ann Thorac Surg** 1997 Aug;64(2):587–8
Calcification in cardiac bioprostheses [letter; comment] Schroll A. **Ann Thorac Surg** 1997 May;63(5):1514–5. Comment on: Ann Thorac Surg 1995 Aug;60(2 Suppl):S332–8.
Retention of native leaflets by a wrap–up technique in mitral valve replacement [letter; comment] Sezer H, et al. **Ann Thorac Surg** 1996 Oct;62(4):1250–2. Comment on: Ann Thorac Surg 1995 Jan;59(1):52–5. Comment on: Ann Thorac Surg 1995 Dec;60(6):1861–2.
Aortic valve replacement with patch enlargement of the aortic annulus. Sommers KE, et al. **Ann Thorac Surg** 1997 Jun;63(6):1608–12
Previous coronary artery bypass grafting is not a risk factor for aortic valve replacement. Sundt TM 3rd, et al. **Ann Thorac Surg** 1997 Sep;64(3):651–7; discussion 657–8
Oral disease burden in patients undergoing prosthetic heart valve implantation. Terezhalmy GT, et al. **Ann Thorac Surg** 1997 Feb;63(2):402–4
1989: Mitral annular calcification: a new technique for valve replacement. Updated in 1997. Vander Salm TJ, et al. **Ann Thorac Surg** 1997 Jun;63(6):1819–20
Obstruction of mechanical mitral prostheses: analysis of pathologic findings. Vitale N, et al. **Ann Thorac Surg** 1997 Apr;63(4):1101–6
Pulmonary valve replacement late after repair of tetralogy of Fallot. Yemets IM, et al. **Ann Thorac Surg** 1997 Aug; 64(2):526–30
Stent fracture in Wessex porcine heart valve bioprostheses. Hurlé A, et al. **Artif Organs** 1997 Feb;21(2):116–20
Efficacy of the chitosan posttreatment in calcification prevention of the glutaraldehyde–treated porcine aortic noncoronary cusp implanted in the right ventricular outflow tract in dogs. Kuribayashi R, et al. **Artif Organs** 1996 Jul;20(7):761–6
Identification of peak stresses in cardiac prostheses. A comparison of two–dimensional versus three–dimensional principal stress analyses. Fontaine AA, et al. **ASAIO J** 1996 May–Jun;42(3):154–63
Panel summary: spontaneous echo contrast in patients with mechanical heart valve implants. Hwang NH, et al. **ASAIO J** 1996 Jan–Feb;42(1):24–6
Transluminal aortic valve placement. A feasibility study with a newly designed collapsible aortic valve. Moazami N, et al. **ASAIO J** 1996 Sep–Oct;42(5):M381–5
Nonaldehyde sterilization of biologic tissue for use in implantable medical devices. Moore MA, et al. **ASAIO J** 1997 Jan–Feb;43(1):23–30
Bileaflet mechanical heart valves at low cardiac output. Wu ZJ, et al. **ASAIO J** 1996 Sep–Oct;42(5):M747–9
Elastic behaviour of sutured calf pericardium: influence of the suture threads. García Páez JM, et al. **Biomaterials** 1996 Sep;17(17):1677–83
Shelf–life of bioprosthetic heart valves: a structural and mechanical study. Julien M, et al. **Biomaterials** 1997 Apr; 18(8):605–12
Methods for the treatment of collagenous tissues for bioprostheses. Khor E. **Biomaterials** 1997 Jan;18(2):95–105 (110 ref.)
Prevention of prosthetic valve endocarditis by impregnation of gentamicin into surgical pledgets. Khor E, et al. **Biomaterials** 1996 Aug;17(16):1631–7
Novel anti–calcification treatment of biological tissues by grafting of sulphonated poly(ethylene oxide). Park KD, et al. **Biomaterials** 1997 Jan;18(1):47–51
Mechanical prosthetic heart valves. Zickler P. **Biomed Instrum Technol** 1997 Jul–Aug;31(4):403–6
Left ventricular volume reduction for end–stage heart failure: new horizon or false dawn? Bryan AJ, et al. **Br J Hosp Med** 1997 Apr 2–15;57(7):323–5
Anticoagulation trials. Grahame–Clarke C, et al. **Br J Hosp Med** 1996 Jun 19–Jul 9;56(1):25–8 (25 ref.)
Effects of aortic valve replacement on exercise duration and functional status in adults with valvular aortic stenosis. Munt BI, et al. **Can J Cardiol** 1997 Apr;13(4):346–50
Long–term changes in left ventricular mass, chamber size and function after valve replacement in patients with severe aortic stenosis and depressed ejection fraction. Pelà G, et al. **Cardiology** 1997 Jul–Aug;88(4):315–22
The sheep as an animal model for heart valve research. Ali ML, et al. **Cardiovasc Surg** 1996 Aug;4(4):543–9
Effects of aprotinin on plasma levels of neutrophil elastase and postoperative blood loss in cardiac surgery. Dernek S, et al. **Cardiovasc Surg** 1996 Aug;4(4):515–9
Non–penetrating traumatic tricuspid regurgitation after mitral valve replacement. Fujiwara T, et al. **Cardiovasc Surg** 1996 Jun;4(3):408–9
Cardiac surgery in the ninth decade of life. Glock Y, et al. **Cardiovasc Surg** 1996 Apr;4(2):241–5
Long–term outcome of patients who received Starr–Edwards valves between 1965 and 1977. Hayashi J, et al. **Cardiovasc Surg** 1996 Jun;4(3):281–7
The stentless Bravo 300 aortic porcine xenograft: supra–annular versus annular implantation. Hvass U, et al. **Cardiovasc Surg** 1997 Apr;5(2):220–4
An alternative procedure to intra–arterial aortoinfundibuloplasty. Katsumata T, et al. **Cardiovasc Surg** 1996 Jun;4(3):340–4
Mitral valve replacement after percutaneous transvenous mitral commissurotomy. Kotsuka Y, et al. **Cardiovasc Surg** 1996 Aug;4(4):530–5
Chordal preservation improves postoperative ventricular performance following valve replacement for chronic mitral regurgitation. Popovic Z, et al. **Cardiovasc Surg** 1996 Oct;4(5):628–34
Composite graft replacement of the aortic root in patients with Marfan's syndrome. Sekine S, et al. **Cardiovasc Surg** 1996 Oct;4(5):635–8
Gastric intramucosal pH and hepatic venous oximetry after cardiopulmonary bypass in valve replacement patients. Takahashi T, et al. **Cardiovasc Surg** 1996 Jun;4(3):308–10
Clinical experience with the first 100 ATS heart valve implants. Van Nooten G, et al. **Cardiovasc Surg** 1996 Jun; 4(3):288–92
Haemodynamic and echocardiographic characteristics of a stentless allograft mitral prosthesis: an in vitro study. Vetter HO, et al. **Cardiovasc Surg** 1996 Apr;4(2):237–40
Stentless valve replacement in the small aortic root. Walther T, et al. **Cardiovasc Surg** 1997 Apr;5(2):229–34
The stentless Toronto SPV bioprosthesis for aortic valve replacement. Walther T, et al. **Cardiovasc Surg** 1996 Aug; 4(4):536–42
Periodic intermittent electromechanical dissociation: hemodynamic correlate of a malfunctioning mechanical prosthetic valve. Shah D, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):377–8
Effect of aortic valve replacement on coronary flow velocity during metabolic stress in a patient with aortic stenosis. Takeuchi M, et al. **Cathet Cardiovasc Diagn** 1997 Mar; 40(3):287–90
Pseudoaneurysm of the left ventricle after mitral valve replacement. Surgical repair or medical follow–up [letter; comment] Demirtaş MM. **Chest** 1997 Feb;111(2):526–7. Comment on: Chest 1996 Feb;109(2):565–7. Comment on: Chest 1996 Feb;109(2):577–9.
Diagnosis of left atrial thrombus with the aid of transesophageal echocardiography during aortic valve replacement: a case report. Wang CH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar;59(3):186–9
AREVA: multicenter randomized comparison of low–dose versus standard–dose anticoagulation in patients with mechanical prosthetic heart valves [see comments] Acar J, et al. **Circulation** 1996 Nov 1;94(9):2107–12. Comment in: Circulation 1996 Nov 1;94(9):2055–6.
Comparison of high–dose with low–dose aspirin in patients with mechanical heart valve replacement treated with oral anticoagulant. Altman R, et al. **Circulation** 1996 Nov 1; 94(9):2113–6
Timing of valve replacement in aortic stenosis. Moving closer to perfection [editorial; comment] Carabello BA. **Circulation** 1997 May 6;95(9):2241–3. Comment on: Circulation 1997 May 6;95(9):2262–70.
Mitral valve repair [letter; comment] Chandra M. **Circulation** 1996 Oct 1;94(7):1790–1. Comment on: Circulation 1995 Nov 1;92(9):2496–503.
Aortic valve replacement for aortic stenosis with severe left ventricular dysfunction. Prognostic indicators. Connolly HM, et al. **Circulation** 1997 May 20;95(10):2395–400
Bioprosthetic versus mechanical prostheses for aortic valve replacement in the elderly. Davis EA, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II121–5
Acoustic assessment of the physical integrity of Björk–Shiley convexo–concave heart valves. Dow JJ, et al. **Circulation** 1997 Feb 18;95(4):905–9
Predictive value of prosthetic valve area index for early and late clinical results after valve replacement with the St Jude Medical valve prosthesis. Fernandez J, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II109–12
Importance of subvalvular preservation and early operation in mitral valve surgery. Lee EM, et al. **Circulation** 1996 Nov 1;94(9):2117–23
Comparison of human tissues and mechanical prostheses for aortic valve replacement in children. Lupinetti FM, et al. **Circulation** 1997 Jul 1;96(1):321–5
Patients with valvular heart disease presenting with sustained ventricular tachyarrhythmias or syncope: results of programmed ventricular stimulation and long–term follow–up [see comments] Martínez–Rubio A, et al. **Circulation** 1997 Jul 15;96(2):500–8. Comment in: Circulation 1997 Jul 15;96(2):386–7.
Fifteen–year experience with the medtronic–hall valve prosthesis. A follow–up study of 1104 consecutive patients. Nitter–Hauge S, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II105–8
Circulating microemboli in patients after aortic valve replacement with pulmonary autografts and mechanical valve prostheses. Nötzold A, et al. **Circulation** 1997 Sep 16;96(6):1843–6
Quantitative detection of outlet strut separations in Björk–Shiley convexo–concave mitral valves. Powell KA, et al. **Circulation** 1996 Dec 15;94(12):3251–6
Time–related changes in left ventricular function after double valve replacement for combined aortic and mitral regurgitation in a young rheumatic population. Predictors of postoperative left ventricular performance and role of chordal preservation. Skudicky D, et al. **Circulation** 1997 Feb 18;95(4):899–904
Prevention of bioprosthetic heart valve calcification by ethanol preincubation. Efficacy and mechanisms [see comments] Vyavahare N, et al. **Circulation** 1997 Jan 21; 95(2):479–88. Comment in: Circulation 1997 Jan 21;95(2):297–8.
Anticoagulation for prosthetic valves during pregnancy [editorial] [see comments] Conti CR. **Clin Cardiol** 1996 Sep; 19(9):682. Comment in: Clin Cardiol 1996 Dec;19(12):921.
Anticoagulation for prosthetic valves during pregnancy [letter; comment] Mayosi BM, et al. **Clin Cardiol** 1996 Dec; 19(12):921. Comment on: Clin Cardiol 1996 Sep;19(9):682.
Mechanical mitral valve prosthesis dysfunction from thrombus: transesophageal echocardiography has limitations. Perazella MA, et al. **Conn Med** 1996 Feb; 60(2):75–7
Echocardiography and Doppler assessment of prosthetic heart valves with transesophageal echocardiography. MacKenzie GS, et al. **Crit Care Clin** 1996 Apr; 12(2):383–409 (90 ref.)
Advances in surgical treatment of acquired valve disease [published erratum appears in Curr Opin Cardiol 1996 Jul;11(4):454] Antunes MJ, et al. **Curr Opin Cardiol** 1996 Mar;11(2):139–54 (111 ref.)
Diagnosis and management of prosthetic valve dysfunction. Binder T, et al. **Curr Opin Cardiol** 1996 Mar;11(2):131–8 (60 ref.)
Valve repair and replacement in children [see comments] Lewis DA, et al. **Curr Opin Cardiol** 1997 Jan;12(1):63–9 (37 ref.). Comment in: Curr Opin Cardiol 1997 Jan;12(1):41–3.
Prosthetic aortic valves [editorial; comment] Flameng W. **Eur Heart J** 1997 Jul;18(7):1043–4. Comment on: Eur Heart J 1997 Jul;18(7):1157–65.
Treating the non–electrical risks of atrial fibrillation. Gershlick AH. **Eur Heart J** 1997 May;18 Suppl C:C19–26 (39 ref.)
25 years of aortic valve replacement using mechanical valves. Risk factors for early and late mortality [see comments] Hokken RB, et al. **Eur Heart J** 1997 Jul;18(7):1157–65. Comment in: Eur Heart J 1997 Jul;18(7):1043–4.
Superiority of mitral valve repair in surgery for degenerative mitral regurgitation. Lee EM, et al. **Eur Heart J** 1997 Apr; 18(4):655–63
Pericardial valves in small aortic annuli: ten years' results. Aupart M, et al. **Eur J Cardiothorac Surg** 1996; 10(10):879–83
Fluid dynamics of the CarboMedics kinetic bileaflet prosthetic heart valve. Baldwin JT, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):287–92
Valve surgery combined with coronary artery operation: is the use of internal mammary artery a predictor for early complications? [see comments] Bauer EP, et al. **Eur J Cardiothorac Surg** 1996;10(4):248–52. Comment in: Eur J Cardiothorac Surg 1997 May;11(3):594–5.
Surgical treatment of acute endocarditis of the aortic valve with paravalvular abscess: considerations justifying the use of mechanical replacement devices. Bauernschmitt R, et al. **Eur J Cardiothorac Surg** 1996;10(9):741–7
An improved valve rotator. Belcher PR, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):988–90
Mechanical cardiac valve thrombosis in patients in critical hemodynamic compromise. Buttard P, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):710–3
Reoperation for hemolytic, anaemia complicating mitral valve repair. Cerfolio RJ, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):479–84
Editorial comment on hemodynamic evaluation of the CarboMedics R, St Jude Medical HP and Sorin–Bicarbon valve in patients with small aortic anulus: Noera et al [editorial; comment] Chambers J. **Eur J Cardiothorac Surg** 1997 Mar;11(3):477–8. Comment on: Eur J Cardiothorac Surg 1997 Mar;11(3):473–5.
Mechanical valve in aortic position is a valid option in children and adolescents. Champsaur G, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):117–22
Open chest and delayed sternal closure after cardiac surgery. Christenson JT, et al. **Eur J Cardiothorac Surg** 1996; 10(5):305–11
Non–destructive assessment of 62 Dutch Björk–Shiley convexo–concave heart valves. de Mol BA, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):703–8; discussion 708–9
Long–term results of surgery for active infective endocarditis. d'Udekem Y, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):46–52
Valve–in–valve or super imposition of mechanical valves on impacted bioprostheses [letter] Al Ebrahim K. **Eur J Cardiothorac Surg** 1997 Jul;12(1):162–3

Radical replacement of the aortic root in acute type A dissection: indications and outcome. Ergin MA, et al. **Eur J Cardiothorac Surg** 1996;10(10):840–4; discussion 845

Valve replacement in the small aortic annulus: prospective randomized trial of St. Jude with Medtronic Hall. Fiore AC, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):485–91; discussion 491–2

Thirty years survival after double valve replacement with Starr–Edwards prostheses in aortic and mitral position. Gödje O, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):391–3

Self management of oral anticoagulant therapy after heart valve replacement. Hasenkam JM, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):935–42

Left ventricular remodelling and improvement in Freestyle stentless valve haemodynamics. Jin XY, et al. **Eur J Cardiothorac Surg** 1997 Jul;12(1):63–9

Protamine–induced fulminating non–cardiogenic pulmonary edema following cardiopulmonary bypass. Kindler C, et al. **Eur J Cardiothorac Surg** 1996;10(6):463–6

Phosphatidylcholine coated chest drains: are they better than conventional drains after open heart surgery? Kumar P, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):769–73

Tricuspid valve reconstruction, a treatment option in acute endocarditis. Lange R, et al. **Eur J Cardiothorac Surg** 1996; 10(5):320–6

Spontaneous cardioversion and mitral valve repair: a role for surgical cardioversion (Cox–maze)? Large SR, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):76–80

Endothelialized biological heart valve prostheses in the non–human primate model. Lehner G, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):498–504

Hemodynamic evaluation of the Carbomedics R, St Jude Medical HP and Sorin–Bicarbon valve in patients with small aortic annulus [see comments] Noera G, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):473–5; discussion 475–6. Comment in: Eur J Cardiothorac Surg 1997 Mar;11(3):477–8.

Repair of late left ventricular rupture after repeat mitral valve replacement. Nomura F, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):991–3

The risk of stroke in the early postoperative period following mitral valve replacement. Orszulak TA, et al. **Eur J Cardiothorac Surg** 1995;9(11):615–9 discuss 620

Haemodynamic performance of a 16–mm Carbomedics aortic prosthesis. Oswal D, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1183–4

The influence of free hand suturing technique and zero pressure fixation on the hydrodynamic function of aortic root and aortic valve leaflets. Revanna P, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):280–6

Ross procedure in congenital patients: results and left ventricular function. Rubay JE, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):92–9

Vocal cord dysfunction after cardiac surgery: an overlooked complication. Shafei H, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):564–6

Stentless porcine bioprostheses for all types of aortic root pathology. Sidiropoulos A, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):917–21

Aortic valve replacement after aortic valvuloplasty for calcified aortic stenosis. Soyer R, et al. **Eur J Cardiothorac Surg** 1996;10(11):977–82

Postoperative assessment of chordal preservation and changes in cardiac geometry following mitral valve replacement. Straub U, et al. **Eur J Cardiothorac Surg** 1996; 10(9):734–40

Hydrodynamic function of tilting disc prostheses and bileaflet valves in double valve replacement. Strüber M, et al. **Eur J Cardiothorac Surg** 1996;10(6):422–7

The orientation of the bi–leaflet CarboMedics valve in the mitral position determines left ventricular spatial flow patterns. Van Rijk–Zwikker GL, et al. **Eur J Cardiothorac Surg** 1996;10(7):513–20

Emergency surgery for acute infective aortic valve endocarditis: performance of cryopreserved homografts and mode of failure. Vogt PR, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):53–61

The in vitro construction of a tissue engineered bioprosthetic heart valve. Zund G, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):493–7

Infective endocarditis due to Streptococcus suis serotype 2 [letter] Tayoro J, et al. **Eur J Clin Microbiol Infect Dis** 1996 Sep;15(9):765–6 (10 ref.)

Age–dependent differences in the anticoagulant effect of phenprocoumon in patients after heart valve surgery. Russmann S, et al. **Eur J Clin Pharmacol** 1997;52(1):31–5

Identification of Doppler microembolic signals with a bigate probe in patients with prosthetic heart valves. Lindner A, et al. **Eur J Med Res** 1997 Jul 28;2(7):299–301

Three–dimensional analysis of normal regurgitant jets in a St. Jude Medical mitral prosthesis. Greco C, et al. **G Ital Cardiol** 1997 Jun;27(6):612 **(Eng, Ita)**

Early results of minimally invasive aortic valve replacement. Experience with the first 34 cases. Minale C, et al. **G Ital Cardiol** 1997 May;27(5):458–61

Prophylactic replacement of Björk–Shiley convexo–concave heart valves: an easy–to–use tool to aid decision–making in individual patients [letter; comment] Amsel BJ. **Heart** 1997 May;77(5):487–8. Comment on: Heart 1996 Sep;76(3):264–8.

Welder identity, weld date, and the risk of outlet strut fracture in Björk–Shiley convexo–concave valves: the Dutch cohort study. Kallewaard M, et al. **Heart** 1996 Dec; 76(6):510–2

Severe aortic stenosis without left ventricular hypertrophy: prevalence, predictors, and short–term follow up after aortic valve replacement. Seiler C, et al. **Heart** 1996 Sep; 76(3):250–5

Prophylactic replacement of Björk–Shiley convexo–concave heart valves: an easy–to–use tool to aid decision–making in individual patients [see comments] Steyerberg EW, et al. **Heart** 1996 Sep;76(3):264–8. Comment in: Heart 1997 May;77(5):487–8.

The United Kingdom Heart Valve Registry: the first 10 years [editorial] Taylor K. **Heart** 1997 Apr;77(4):295–6

Experience with cardiac tamponade following open heart surgery. Ball JB, et al. **Heart Vessels** 1996;11(1):39–43 (41 ref.)

Spectral composition of heart sounds before and after mechanical heart valve implantation using a modified forward–backward Prony's method. Sava HP, et al. **IEEE Trans Biomed Eng** 1996 Jul;43(7):734–42

Spectral characterization and classification of Carpentier–Edwards heart valves implanted in the aortic position. Sava HP, et al. **IEEE Trans Biomed Eng** 1996 Oct;43(10):1046–8

Tubercular sternal osteomyelitis and mediastinitis after open heart surgery. Aggarwal B, et al. **Indian Heart J** 1997 May–Jun;49(3):313–4 (4 ref.)

Coronary embolism in a patient with mitral prosthesis treated by coronary angioplasty—a case report. Sridhar K, et al. **Indian Heart J** 1997 Mar–Apr;49(2):181–2

Surgery of the mitral valve [editorial] John S. **Indian J Chest Dis Allied Sci** 1996 Oct–Dec;38(4):223–5

A new in vitro test method for calcification of bioprosthetic heart valves. Glasmacher B, et al. **Int J Artif Organs** 1997 May;20(5):267–71

Percutaneous balloon valvuloplasty of stenosed mitral bioprosthesis. Lip GY, et al. **Int J Cardiol** 1997 Mar; 59(1):97–100

Regression of left ventricular dilatation and hypertrophy after aortic valve replacement. Waszyrowski T, et al. **Int J Cardiol** 1996 Dec 13;57(3):217–25

Spontaneous bacterial endocarditis and aortic valve replacement complicating pregnancy. Hautman GD, et al. **Int J Gynaecol Obstet** 1996 Aug;54(2):173–4

Right thoracotomy. Is it a safe approach in redo mitral valve replacement? [letter] el Sayed H, et al. **Int Surg** 1997 Jan–Mar;82(1):107

Emergency aortic valve replacement for critical aortic stenosis. A lifesaving treatment for patients with cardiogenic shock and multiple organ failure. Christ G, et al. **Intensive Care Med** 1997 Mar;23(3):297–300

Aortic valve replacement with a stentless porcine bioprosthesis (TSPV). Goldman BS, et al. **Isr J Med Sci** 1996 Oct;32(10):846–8

Surgical results in cardiac patients over the age of 80 years. Sahar G, et al. **Isr J Med Sci** 1996 Dec;32(12):1322–5

Mitral annuloplasty: different surgical techniques. Salati M, et al. **Isr J Med Sci** 1996 Oct;32(10):848–51 (30 ref.)

Clinical course and hemodynamic observations after supraannular mitral valve replacement in infants and children. Adatia I, et al. **J Am Coll Cardiol** 1997 Apr; 29(5):1089–94

Optimizing timing of surgical correction in patients with severe aortic regurgitation: role of symptoms. Klodas E, et al. **J Am Coll Cardiol** 1997 Sep;30(3):746–52

Accuracy of transesophageal echocardiography in preoperative determination of aortic anulus size during valve replacement. Abraham TP, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):149–54

Normal echocardiographic characteristics of the Sorin Bicarbon bileaflet prosthetic heart valve in the mitral and aortic positions. Badano L, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):632–43

Detection of thrombotic cuspal obstruction of an aortic bioprosthesis with transesophageal echocardiography. Capodilupo RC, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):685–8

Surgical aortic perigraft to right atrial shunt: transesophageal echocardiography findings. Malcolm ID. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):877–9

The development of valvular strands during thrombolytic therapy detected by transesophageal echocardiography. Narins CR, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec; 9(6):888–90

Improved transvalvular continuous–wave Doppler signal intensity after intravenous Albunex injection in patients with prosthetic aortic valves. Okura H, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):608–12

Bioprosthetic mitral valve thrombosis: clinical profile, transesophageal echocardiographic features, and follow–up after anticoagulant therapy. Oliver JM, et al. **J Am Soc Echocardiogr** 1996 Sep–Oct;9(5):691–9

Extrinsic obstruction of a Carbomedics prosthesis in the mitral position: echocardiographic and surgical findings. Shahid M, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug; 9(4):573–6

Characterization of normal leakage flow of monostrut tilting disk prosthetic mitral valves by multiplane transesophageal echocardiography. Temesvari A, et al. **J Am Soc Echocardiogr** 1997 Mar;10(2):155–8

Cardiac surgery and plasma digoxin levels. Anaokar SM, et al. **J Assoc Physicians India** 1996 Oct;44(10):694–7

Studies on prosthetic valve function—a transesophageal echocardiographic assessment [see comments] Sinha DP, et al. **J Assoc Physicians India** 1996 Aug;44(8):525–8. Comment in: J Assoc Physicians India 1996 Aug;44(8):519–20.

Cavitation dynamics of medtronic hall mechanical heart valve prosthesis: fluid squeezing effect. Lee CS, et al. **J Biomech Eng** 1996 Feb;118(1):97–105

Numerical analysis of three–dimensional Björk–Shiley valvular flow in an aorta. Shim EB, et al. **J Biomech Eng** 1997 Feb;119(1):45–51

Polyurethane heart valves: fatigue failure, calcification, and polyurethane structure. Bernacca GM, et al. **J Biomed Mater Res** 1997 Mar 5;34(3):371–9

Differential calcification of cusps and aortic wall of failed stented porcine bioprosthetic valves. Biedrzycki LM, et al. **J Biomed Mater Res** 1997 Mar 15;34(4):411–5

Platelet interaction with pyrolytic carbon heart–valve leaflets. Goodman SL, et al. **J Biomed Mater Res** 1996 Oct;32(2):249–58

Simultaneous assessment of bioprosthetic heart valve biomechanical properties and collagen crimp length. Hilbert SL, et al. **J Biomed Mater Res** 1996 Aug; 31(4):503–9

Calcification of polyurethanes implanted subdermally in rats is enhanced by calciphylaxis. Joshi RR, et al. **J Biomed Mater Res** 1996 Jun;31(2):201–7

Shrinkage temperature versus protein extraction as a measure of stabilization of photooxidized tissue. Moore MA, et al. **J Biomed Mater Res** 1996 Oct;32(2):209–14

Comparison of elasticities of components of a cardiac bioprosthesis leaflet. Páez JM, et al. **J Biomed Mater Res** 1996 Jan;30(1):47–52

Effect of alternative crosslinking techniques on the enzymatic degradation of bovine pericardia and their calcification. Vasudev SC, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):357–69

The proper use of glue: a 20–year experience with the GRF glue in acute aortic dissection. Bachet J, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):243–53; discussion 253–5 (30 ref.)

Current practice in Marfan's syndrome and annulo–aortic ectasia: aortic root replacement with a composite graft over a twenty–year period. Bachet J, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):157–66

Intermittent antegrade warm blood cardioplegia in aortic valve replacement. Calafiore AM, et al. **J Card Surg** 1996 Sep–Oct;11(5):348–54

Current practice in Marfan's aortic root surgery: reconstruction with aortic valve preservation or replacement? What to do with the mitral valve? David TE. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):147–50

Surgical management of aortic root abscess. David TE. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):262–6; discussion 266–9

Mitral valve reconstruction and mitral valve replacement for ischemic mitral insufficiency. Hausmann H, et al. **J Card Surg** 1997 Jan–Feb;12(1):8–14

Aortic root surgery in Marfan syndrome: current practice and evolving techniques. LeMaire SA, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):137–41 (38 ref.)

The Bentall procedure in patients with Marfan's syndrome. Nguyen KH, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):142–6

Prosthetic mitral valve evaluation. Louie EK, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):823–4

Gabexate mesilate, a new synthetic serine protease inhibitor: a pilot clinical trial in valvular heart surgery [see comments] Parodi F, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):235–7. Comment in: J Cardiothorac Vasc Anesth 1996 Oct;10(6):832–3.

High–dose esmolol and cardiopulmonary bypass for mitral valve replacement in the beating heart. Pivalizza EG, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):485–6

Cesarean section and reoperative aortic valve replacement in a 38–week parturient. Tzankis G, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):516–8

Cardiopulmonary bypass procedures in patients with cold–reactive hemagglutination. A case report and a literature review. Ko W, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):623–6 (15 ref.)

Long–term results of heart valve replacement with bileaflet prostheses. Renzulli A, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):241–7

Malfunctioning Starr–Edwards mitral valve 21 years after installation. Sakata K, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):81–2

Acute carpal tunnel syndrome as a complication of oral anticoagulant therapy. Black PR, et al. **J Hand Surg [Br]** 1997 Feb;22(1):50–1

Biceps rupture in a patient on long–term anticoagulation leading to compartment syndrome and nerve palsies. Richards AM, et al. **J Hand Surg [Br]** 1997 Jun;22(3):411–2

Cineradiographic evaluation of ATS open pivot bileaflet valves. Aoyagi S, et al. **J Heart Valve Dis** 1997 May; 6(3):258–63

The 20 mm Medtronic Hall prosthesis in the small aortic root. Aris A, et al. **J Heart Valve Dis** 1996 Jul;5(4):459–62

Anticoagulant related complications in elderly patients with St. Jude mechanical valve prostheses. Arom KV, et al. **J Heart Valve Dis** 1996 Sep;5(5):505–10

In vitro function and durability of a polyurethane heart valve: material considerations. Bernacca GM, et al. **J Heart Valve Dis** 1996 Sep;5(5):538–42

Valve replacement in aortic stenosis with preoperative mean gradient < 50 mmHg: hemodynamic outcome. Blackshear JL, et al. **J Heart Valve Dis** 1996 Nov;5(6):647–55

The Medtronic Parallel valve and the lessons learned [editorial; comment] [see comments] Bodnar E. **J Heart Valve Dis** 1996 Nov;5(6):572–3. Comment on: J Heart Valve Dis 1996 Nov;5(6):574–80. Comment on: J Heart Valve Dis 1996 Nov;5(6):581–90. Comment on: J Heart Valve Dis 1996 Nov;5(6):591–9. Comment on: J Heart Valve Dis 1996 Nov;5(6):600–6. Comment in: J Heart Valve Dis 1997 Jan;6(1):101.

The On-X [letter; comment] Bokros J. **J Heart Valve Dis** 1997 Jan;6(1):101. Comment on: J Heart Valve Dis 1996 Nov;5(6):572–3.

The Bicarbon heart valve prosthesis: short-term results. Casselman F, et al. **J Heart Valve Dis** 1997 Jul;6(4):410–5

Delrin material characteristics. Clark ES. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S184–9 (20 ref.)

Valve repair in rheumatic mitral valve disease: is it always worth trying? [see comments] Cotrufo M, et al. **J Heart Valve Dis** 1997 Jul;6(4):370–2. Comment in: J Heart Valve Dis 1997 Jul;6(4):373–4. Comment in: J Heart Valve Dis 1997 Jul;6(4):375–6. Comment in: J Heart Valve Dis 1997 Jul;6(4):377–9.

Repopulation of freeze-dried porcine valves with human fibroblasts and endothelial cells [see comments] Curtil A, et al. **J Heart Valve Dis** 1997 May;6(3):296–306. Comment in: J Heart Valve Dis 1997 May;6(3):292.

The appropriateness of mitral valve repair for rheumatic mitral valve disease [editorial; comment] David TE. **J Heart Valve Dis** 1997 Jul;6(4):373–4. Comment on: J Heart Valve Dis 1997 Jul;6(4):370–2.

Transcranial high-intensity Doppler signals in patients with mechanical heart valve prostheses: their relationship with abnormal intracavitary echoes. Deklunder G, et al. **J Heart Valve Dis** 1996 Nov;5(6):662–7

Clinical experience with the Björk-Shiley Delrin tilting disc heart valve. Dellsperger KC, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S169–77

The wisdom of repairing stenotic mitral lesions [editorial; comment] Duran CM. **J Heart Valve Dis** 1997 Jul;6(4):375–6. Comment on: J Heart Valve Dis 1997 Jul;6(4):370–2.

Calcific degeneration of bioprosthetic aortic valves in patients receiving steroid therapy. Eishi K, et al. **J Heart Valve Dis** 1996 Nov;5(6):668–72

Velocity measurements and flow patterns within the hinge region of a Medtronic Parallel bileaflet mechanical valve with clear housing [see comments] Ellis JT, et al. **J Heart Valve Dis** 1996 Nov;5(6):591–9. Comment in: J Heart Valve Dis 1996 Nov;5(6):572–3.

An in vitro investigation of the retrograde flow fields of two bileaflet mechanical heart valves [see comments] Ellis JT, et al. **J Heart Valve Dis** 1996 Nov;5(6):600–6. Comment in: J Heart Valve Dis 1996 Nov;5(6):572–3.

Surface and edge wear of Björk-Shiley Delrin heart valve discs. Engel PA, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S190–205

Echocardiographic monitoring of minimally invasive mitral valve surgery using an endoaortic clamp. Falk V, et al. **J Heart Valve Dis** 1996 Nov;5(6):630–7

Mechanical valve replacement in congenital heart disease [see comments] Fiane AE, et al. **J Heart Valve Dis** 1996 May;5(3):337–42. Comment in: J Heart Valve Dis 1996 Sep;5(5):570–1.

In vitro endothelialization of bioprosthetic heart valves. Fischlein T, et al. **J Heart Valve Dis** 1996 Jan;5(1):58–65

Postoperative hemodynamics of two bileaflet heart valves in the aortic position. Flameng W, et al. **J Heart Valve Dis** 1997 May;6(3):269–73

Comparison of magnetic resonance imaging and Laser Doppler Anemometry velocity measurements downstream of replacement heart valves: implications for in vivo assessment of prosthetic valve function. Fontaine AA, et al. **J Heart Valve Dis** 1996 Jan;5(1):66–73

Aortic valve replacement for aortic stenosis in patients with small aortic root. Franzen SF, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S284–8

Tricuspid inflow and regurgitant flow dynamics after mitral valve replacement: differences relating to surgical repair of the tricuspid valve. Fukuda N, et al. **J Heart Valve Dis** 1997 Mar;6(2):184–8

The use of mechanical prostheses in native aortic valve endocarditis. Gaudino M, et al. **J Heart Valve Dis** 1997 Jan;6(1):79–83 (24 ref.)

Mitral annuloplasty: a ring-side view. Ghosh PK. **J Heart Valve Dis** 1996 May;5(3):286–93 (103 ref.)

Post-radiation valvular and coronary artery disease. Gonzaga AT, et al. **J Heart Valve Dis** 1997 Mar;6(2):219–21

Hemodynamic evaluation of a new bileaflet valve prosthesis: an acute animal experimental study [see comments] Hasenkam JM, et al. **J Heart Valve Dis** 1996 Nov;5(6):574–80. Comment in: J Heart Valve Dis 1996 Nov;5(6):572–3.

Pyrolytic carbons in mechanical heart valves [editorial] Haubold A, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S1

Tears in bioprosthetic heart valve leaflets without calcific degeneration. Haziza F, et al. **J Heart Valve Dis** 1996 Jan;5(1):35–9

Study of an acoustic technique to detect cavitation produced by a tilting disc valve. Herman BA, et al. **J Heart Valve Dis** 1996 Jan;5(1):90–6

Tricuspid valve replacement subsequent to previous open heart surgery. Hornick P, et al. **J Heart Valve Dis** 1996 Jan;5(1):20–5

Magnetic resonance imaging of blood velocity distribution around St. Jude medical aortic valves in patients. Houlind K, et al. **J Heart Valve Dis** 1996 Sep;5(5):511–7

Low-profile porcine bioprosthesis (Liotta): pathologic findings and mode of failure in the long-term. Ius P, et al. **J Heart Valve Dis** 1996 May;5(3):323–7

Hemodynamic evaluation of 23 mm Pericarbon and 23 mm Hancock II bioprostheses in the aortic position at mid-term follow up. Ius P, et al. **J Heart Valve Dis** 1996 Nov;5(6):656–61

The use of enzyme activated milk for in vitro simulation of prosthetic valve thrombosis. Keggen LA, et al. **J Heart Valve Dis** 1996 Jan;5(1):74–83

Aortic valve replacement in small aortic annulus with or without annular enlargement. Kitamura M, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S289–93

Improving methods of chordal-sparing mitral valve replacement--Part II: Optimal tension for chordal resuspension. Komeda M, et al. **J Heart Valve Dis** 1996 Sep;5(5):477–83

Ross operation and right ventricular outflow tract reconstruction with stentless xenografts. Konertz W, et al. **J Heart Valve Dis** 1996 Jul;5(4):418–20

Hemodynamic performance of the Edwards Prima stentless valve [letter] Konertz W. **J Heart Valve Dis** 1997 Jul;6(4):441–2

Tricuspid and pulmonary valve replacement in carcinoid heart disease: two case reports and a review of the literature. Konstantinov IE, et al. **J Heart Valve Dis** 1997 Mar;6(2):193–7 (35 ref.)

Suture loop restriction of the medtronic hall valve: late presentation of a rare complication. Kuo J, et al. **J Heart Valve Dis** 1996 Jan;5(1):117–9

Effect of valve holder flexibility on cavitation initiation with mechanical heart valve prostheses: an in vitro study. Lee CS, et al. **J Heart Valve Dis** 1996 Jan;5(1):104–13

Strategies to mitigate mineralization in the bioprosthetic or homograft cusp and aortic wall [editorial] Levy RJ. **J Heart Valve Dis** 1997 Jan;6(1):7–8

Variability of regurgitation in Björk-Shiley mitral valves and relationship to disc occluder design: an in vitro two-dimensional color-Doppler flow mapping study. Lindower PD, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S178–83

Formaldehyde replaces glutaraldehyde in porcine bioprosthetic heart valves [see comments] McClurg WM, et al. **J Heart Valve Dis** 1996 May;5(3):343–7. Comment in: J Heart Valve Dis 1997 May;6(3):327–8.

Long-term biostability of polyacetal (Delrin) implants. McKellop HA, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S238–42

Structural analysis of the Björk-Shiley Delrin heart valve occluder. McMeeking RM, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S229–37

In vivo and in vitro models of calcification in porcine aortic valve cusps. Mako WJ, et al. **J Heart Valve Dis** 1997 May;6(3):316–23 (37 ref.)

One leaflet immobilization after mitral valve replacement with a bileaflet prosthesis. Masiello P, et al. **J Heart Valve Dis** 1996 Jan;5(1):114–6

A hemodynamic comparison of Omniscience and Medtronic Hall aortic prostheses [letter; comment] Mikhail A. **J Heart Valve Dis** 1996 Nov;5(6):675–7. Comment on: J Heart Valve Dis 1996 May;5(3):328–36.

Immunoglobulins and complement deposits in mitroflow pericardial bioprosthetic heart valves--a contributing factor to structural deterioration. Moczar M, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S276–83

Biocompatibility and immunologic properties of pericardial tissue stabilized by dye-mediated photooxidation. Moore MA, et al. **J Heart Valve Dis** 1997 May;6(3):307–15

In response to "Formaldehyde Replaces Glutaraldehyde in Porcine Bioprosthetic Heart Valves" [letter; comment] Moore MA, et al. **J Heart Valve Dis** 1997 May;6(3):327–8 . Comment on: J Heart Valve Dis 1996 May;5(3):343–7.

Aortic and mitral valve replacement with the Carpentier-Edwards pericardial bioprosthesis: 10-year results. Murakami T, et al. **J Heart Valve Dis** 1996 Jan;5(1):45–9

Mid-term results of mitral valve replacement combined with chordae tendineae replacement in patients with mitral stenosis. Okita Y, et al. **J Heart Valve Dis** 1997 Jan;6(1):37–42

A hemodynamic comparison of Omniscience and Medtronic Hall aortic prostheses [see comments] Plehn JF, et al. **J Heart Valve Dis** 1996 May;5(3):328–36. Comment in: J Heart Valve Dis 1996 Nov;5(6):675–7.

Tricuspid valve replacement in rheumatic disease: preoperative predictors of hospital mortality. Poveda JJ, et al. **J Heart Valve Dis** 1996 Jan;5(1):26–30

Left ventricular rupture following mitral valve replacement [see comments] Reardon MJ, et al. **J Heart Valve Dis** 1996 Jan;5(1):10–15. Comment in: J Heart Valve Dis 1996 Sep;5(5):571.

The influence of sizing and method of fixation on the hydrodynamic function of stentless, free-hand inserted porcine bioprosthesis: an in vitro study. Revanna P, et al. **J Heart Valve Dis** 1997 Jul;6(4):433–8

Mitral valve replacement in a Jehovah's Witness with dextrocardia and situs solitus. St. Rammos K, et al. **J Heart Valve Dis** 1996 Nov;5(6):673–4

Preservation of three-dimensional annular movement with the SJM-Seguin mitral annuloplasty ring. Seguin JR, et al. **J Heart Valve Dis** 1996 Nov;5(6):641–6

Early diagnosis of obstructed aortic valve prostheses: a clinical challenge [editorial; comment] Shah PM. **J Heart Valve Dis** 1997 May;6(3):234–5. Comment on: J Heart Valve Dis 1997 May;6(3):236–48.

Proteins and bioprosthetic calcification in the rat model. Shen M, et al. **J Heart Valve Dis** 1996 Jan;5(1):50–7

High-resolution magnetic resonance imaging to characterize the geometry of fatigued porcine bioprosthetic heart valves. Smith DB, et al. **J Heart Valve Dis** 1997 Jul;6(4):424–32 (32 ref.)

Valve replacement for aortic stenosis with severe congestive heart failure and pulmonary hypertension. Snopek G, et al. **J Heart Valve Dis** 1996 May;5(3):268–72

Summary and recommendations. Stein PD, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S246–8 (10 ref.)

Mitral valve repair combined with aortic valve replacement. Szentpetery S, et al. **J Heart Valve Dis** 1997 Jan;6(1):32–6

Hemodynamic assessment of replacement valves in the aortic position: is stress echocardiography necessary? [editorial] Takeda S, et al. **J Heart Valve Dis** 1997 Jul;6(4):380–2

A comparison of wear patterns in vivo and in vitro for Björk-Shiley Delrin heart valve discs. Thyagarajan K, et al. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S206–15

The hybrid autograft/xenograft aortic valve [editorial; comment] Vesely I. **J Heart Valve Dis** 1997 May;6(3):292–5 (35 ref.). Comment on: J Heart Valve Dis 1997 May;6(3):296–306.

Small aortic root: specific problems in the child. Vouhé PR. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S269–71 (9 ref.)

The Björk-Shiley Delrin tilting disc heart valve: historical perspective, design and need for scientific analyses after 25 years. Wieting DW. **J Heart Valve Dis** 1996 Aug;5 Suppl 2:S157–68 (37 ref.)

Carpentier-Edwards supra-annular bioprosthesis in the aortic position. Has altered design affected performance? Wilson ES, et al. **J Heart Valve Dis** 1996 Jan;5(1):40–4

Three-dimensional echocardiographic evaluation of configuration and dynamics of the mitral annulus in patients fitted with an annuloplasty ring. Yamaura Y, et al. **J Heart Valve Dis** 1997 Jan;6(1):43–7

Management of mitral valve stenosis in pregnancy: case presentation and review of the literature. Yaryura RA, et al. **J Heart Valve Dis** 1996 Jan;5(1):16–9 (32 ref.)

Use of dobutamine stress echocardiography in assessing mechanical aortic prostheses: comparison with exercise echocardiography. Zabalgoitia M, et al. **J Heart Valve Dis** 1997 May;6(3):253–7

Systolic hypertension in critical aortic stenosis and the effect of valve replacement. Ie E, et al. **J Hum Hypertens** 1996 Feb;10(2):65–7

Streptococcus vestibularis bacteraemia [letter] Cunliffe NA, et al. **J Infect** 1997 Jan;34(1):85

Lymphocyte and monocyte subset changes during cardiopulmonary bypass: effects of aging and gender [see comments] Rinder CS, et al. **J Lab Clin Med** 1997 Jun;129(6):592–602. Comment in: J Lab Clin Med 1997 Jun;129(6):578–9.

Effect of different oral anticoagulant intensities on prothrombin fragment 1 + 2 in Thai patients with mechanical heart valve prostheses. Tientadakul P, et al. **J Med Assoc Thai** 1997 Feb;80(2):81–6

A comparison of the hydrodynamical behaviour of three heart aortic prostheses by numerical methods. Cerrolaza M, et al. **J Med Eng Technol** 1996 Nov-Dec;20(6):219–28

A comparative study of linear and nonlinear simulations of the leaflets in a bioprosthetic heart valve during the cardiac cycle. Patterson EA, et al. **J Med Eng Technol** 1996 May-Jun;20(3):95–108

A case of prosthetic valve endocarditis caused by Cryptococcus neoformans var. neoformans. Banerjee U, et al. **J Med Vet Mycol** 1997 Mar-Apr;35(2):139–41

Tricuspid valve surgery: 15-year experience. Bleiweis MS, et al. **J Natl Med Assoc** 1996 Oct;88(10):645–8

Transcatheter embolization of mycotic iliac aneurysm after aortic valve replacement because of bacterial endocarditis. Akomea-Agyin C, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1671–2

Carpentier-Edwards pericardial valves in the mitral position: ten-year follow-up. Aupart MR, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):492–8

Minimally invasive aortic valve replacement. Benetti FJ, et al. **J Thorac Cardiovasc Surg** 1997 Apr;113(4):806–7

Concentration of glutaraldehyde in fixation of bioprosthetic valves [letter] Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):512–3

Results of allograft aortic valve replacement for complex endocarditis. Dearani JA, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):285–91

St. Jude Medical valve prosthesis: an analysis of long-term outcome and prognostic factors. Debétaz LF, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):134–48

Extent and pattern of regression of left ventricular hypertrophy in patients with small size CarboMedics aortic valves. De Paulis R, et al. **J Thorac Cardiovasc Surg** 1997

May;113(5):901–9

Aortic valve replacement after repair of pulmonary atresia and ventricular septal defect or tetralogy of Fallot. Dodds GA 3rd, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):736–41

Viscoelasticity of dynamically fixed bioprosthetic valves. II. Effect of glutaraldehyde concentration. Duncan AC, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):302–10

Morphology of the pulmonary and aortic roots with regard to the pulmonary autograft procedure. Hokken RB, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):453–61

Use of a bovine jugular vein graft with natural valve for right ventricular outflow tract reconstruction: a one-year animal study. Ichikawa Y, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):224–33

Assessment of the hemodynamic performance of small-size aortic valve prostheses [letter; comment] Izzat MB, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1121–3. Comment on: J Thorac Cardiovasc Surg 1996 Aug;112(2):273–80.

Aortic valve replacement in relapsing polychondritis. Lang-Lazdunski L, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):131–2

Early failure of freehand aortic stentless xenograft valves. Luciani GB, et al. **J Thorac Cardiovasc Surg** 1997 Jun; 113(6):1109–10

An analysis of valve re-replacement after aortic valve replacement with biologic devices. McGiffin DC, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):311–8

Low-intensity oral anticoagulation plus low-dose aspirin versus high-intensity oral anticoagulation alone: a randomized trial in patients with mechanical prosthetic heart valves. Meschengieser SS, et al. **J Thorac Cardiovasc Surg** 1997 May;113(5):910–6

Twenty-three-year survival of a bovine pericardial bioprosthesis [letter] Oswal D, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1127–8

St. Jude Medical cardiac valves in small aortic roots: follow-up to sixteen years [published erratum appears in J Thorac Cardiovasc Surg 1997 Jun;113(6):993] Sawant D, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):499–509

Minimally invasive mitral valve replacement: port-access technique, feasibility, and myocardial functional preservation. Schwartz DS, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1022–30; discussion 1030–1

Extended survival with a porcine mitral valve bioprosthesis [letter] Trujillo JJ, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1407–8

Complete intraoperative dislodgement of a St. Jude Medical Mechanical Heart Valve Hemodynamic Plus valve sewing cuff. Vitale N, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1669–71

Homograft replacement of the mitral valve [letter; comment] Vrandecic M, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1678–9. Comment on: J Thorac Cardiovasc Surg 1996 Feb;111(2):367–78; discussion 378–80.

Comparison of aortic valve replacement and percutaneous aortic balloon valvuloplasty for elderly patients with aortic stenosis. Hashimoto H, et al. **Jpn Circ J** 1996 Mar; 60(3):142–8

Timing of surgical treatment for active native value endocarditis. Iemura J, et al. **Jpn Circ J** 1997 Jun; 61(6):467–70

A man with a prosthetic valve, anaemia, fever, and splenomegaly [see comments] Mouallem M, et al. **Lancet** 1996 Nov 2;348(9036):1216. Comment in: Lancet 1997 Jan 11;349(9045):135–6. Comment in: Lancet 1997 Jan 11;349(9045):136.

Three-dimensional study of the effect of two leaflet opening angles on the time-dependent flow through a bileaflet mechanical heart valve. King MJ, et al. **Med Eng Phys** 1997 Apr;19(3):235–41

Heart valve replacement with CarboMedics bileaflet prosthesis: surgical results and clinical evaluation. A medium term follow-up. Caimmi P, et al. **Minerva Cardioangiol** 1997 Jan-Feb;45(1–2):9–13

Rumbles and prosthetic heart valves [letter; comment] Commerford PJ, et al. **N Engl J Med** 1997 Apr 24; 336(17):1259–60. Comment on: N Engl J Med 1996 Aug 8;335(6):407–16.

Anticoagulation and elective surgery [letter] Shalaby A, et al. **N Engl J Med** 1997 Sep 25;337(13):939; discussion 939–40

Anticoagulation and elective surgery [letter] Spandorfer J, et al. **N Engl J Med** 1997 Sep 25;337(13):938–9; discussion 939–40

Prosthetic heart valves [letter; comment] Weiss RL. **N Engl J Med** 1997 Jan 16;336(3):222; discussion 223–4. Comment on: N Engl J Med 1996 Aug 8;335(6):407–16.

Left ventricular pannus causing inflow obstruction late after mitral valve replacement for endocardial fibroelastosis. Dinarevic S, et al. **Pediatr Cardiol** 1996 Jul-Aug; 17(4):257–9

Mitral valve replacement for severe mitral regurgitation in infants with anomalous left coronary artery from the pulmonary artery. Yam MC, et al. **Pediatr Cardiol** 1996 Jul-Aug;17(4):271–4

The effect of protamine on the epicardial microflow and the graft flow in open-heart surgery. Belboul A, et al. **Perfusion** 1997 Mar;12(2):99–106

Emboli generation by the Medtronic Maxima hard-shell adult venous reservoir in cardiopulmonary bypass circuits: a preliminary report. Mitchell SJ, et al. **Perfusion** 1996 Mar; 11(2):145–55

Safer anticoagulant therapy after heart valve replacement. Recommendations for less intense regimens. Turpie AG. **Postgrad Med** 1997 Mar;101(3):85–6, 89–90, 93–4 (20 ref.)

Finite element stress analysis of a new design of synthetic leaflet heart valve. Clift SE, et al. **Proc Inst Mech Eng [H]** 1996;210(4):267–72

The influence of open leaflet geometry on the haemodynamic flow characteristics of polyurethane trileaflet artificial heart valves. Corden J, et al. **Proc Inst Mech Eng [H]** 1996; 210(4):273–87

Stress echocardiography for evaluation of hemodynamics: valvular heart disease, prosthetic valve function, and pulmonary hypertension. Bach DS. **Prog Cardiovasc Dis** 1997 May-Jun;39(6):543–54 (37 ref.)

Bone mineral density in patients given oral vitamin K antagonists. Lafforgue P, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):249–54

Surgical reintervention in prosthetic valve endocarditis. von der Emde J, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):261–6

The echo Doppler study of mitral and aortic prostheses function. Zdrenghea D, et al. **Rom J Intern Med** 1996 Jan-Jun;34(1–2):27–32

Carpentier-Edwards bioprosthesis. Experiences of 17 years with analysis of risk factors of early mortality. Fiane AE, et al. **Scand Cardiovasc J** 1997;31(1):39–44

Radical enarterectomy of severely calcified ascending aorta prevents stroke during open-heart surgery. Koul B, et al. **Scand Cardiovasc J** 1997;31(1):33–7

First documented isolation of vancomycin-resistant Enterococcus faecium in Sweden. Melhus A, et al. **Scand J Infect Dis** 1996;28(2):191–3 (23 ref.)

In vitro flow dynamics of a new mechanical cardiac valve prosthesis—"tricusp". Lentell JC, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3–4):117–23

Elevated circulating levels of von Willebrand factor and D-dimer in patients with heart failure and mechanical prosthesis. Mastroroberto P, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(2):77–81

Subcutaneous epoetin alfa as an adjunct to autologous blood donation before elective coronary artery bypass graft surgery. Gombotz H. **Semin Hematol** 1997 Apr;33(2 Suppl 2):69–70; discussion 71–2

Medtronic-Hall prosthetic aortic valve. Akins CW. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):242–8

The CarboMedics prosthetic heart valve: a second generation bileaflet prosthesis. Copeland JG. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):237–41 (17 ref.)

Carpentier pericardial valve. Cosgrove DM. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):269–75 (36 ref.)

Porcine valves: Hancock and Carpentier-Edwards aortic prostheses. Fann JI, et al. **Semin Thorac Cardiovasc Surg** 1996 Jul;8(3):259–68 (39 ref.)

Functional mitral stenosis resulting from a large mitral valve prosthesis vegetation. Citrin BS, et al. **South Med J** 1997 Feb;90(2):231–3

Obstruction of mechanical valve prostheses: clinical diagnosis and surgical or nonsurgical treatment. Aoyagi S, et al. **Surg Today** 1996;26(6):400–6

Imaging of the orifice of the left ventricular outflow tract: technique and initial results. Komoda T, et al. **Technol Health Care** 1997 Jul;5(3):207–17

Postoperative changes in myosin light chain and comparison with postoperative clinical variables in patients who have undergone valve surgery. Hisatomi K, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):296–9

Mortality and worsening of prognostic profile during waiting time for valve replacement in aortic stenosis. Lund O, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):289–95

Mitral insufficiency caused by systemic lupus erythematosus requiring valve replacement: three case reports and a review of the literature. Morin AM, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):313–6 (25 ref.)

Repair of coarctation of the aorta in adults with simultaneous aortic valve replacement and coronary artery bypass grafting. Thomka I, et al. **Thorac Cardiovasc Surg** 1997 Apr; 45(2):93–6

Low molecular weight heparin for thromboprophylaxis during pregnancy in 2 patients with mechanical mitral valve replacement [letter] Lee LH, et al. **Thromb Haemost** 1996 Oct;76(4):628–30

A comparison of a moderate with moderate-high intensity oral anticoagulant treatment in patients with mechanical heart valve prostheses. Pengo V, et al. **Thromb Haemost** 1997 May;77(5):839–44

Left ventricular function following conventional mitral valve replacement in patients with chronic mitral regurgitation. Iguchi A, et al. **Tohoku J Exp Med** 1996 Jul;179(3):157–66

Hemodynamic assessment of carbomedics bileaflet heart valves by ultrasound: studies in the aortic and mitral positions. Cape EG, et al. **Ultrasound Med Biol** 1996; 22(4):421–30

Radiographic detection of single strut leg separations as a putative basis for prophylactic explantation of Björk-Shiley convexo-concave heart valves. Chandler JG, et al. **World J Surg** 1996 Oct;20(8):953–9; discussion 959–60

[Three-dimensional echocardiography in evaluation of left ventricular systolic function after mitral valve replacement for chronic mitral diseases with preservation of mitral apparatus] Qiang M, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jul;76(7):516–8 (Eng. Abstr.) **(Chi)**

[Diagnosis and management on acute coronary artery occlusion in valve replacement surgery: a report of four cases] Zhu J, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Oct; 33(10):618–20 (Eng. Abstr.) **(Chi)**

[Valve replacement in congenital aortic stenosis] Dominik J, et al. **Cas Lek Cesk** 1997 Jan 22;136(2):48–50 (Eng. Abstr.) **(Cze)**

[Mitral valve replacement in Réunion Island. Short- and medium-term results] el Issa A. **Ann Cardiol Angeiol (Paris)** 1996 Jul-Sep;45(7):377–82 (21 ref.) (Eng. Abstr.) **(Fre)**

[Rheumatoid aortic insufficiency. Apropos of a case treated by mechanical valve replacement. Review of the literature] Moini C, et al. **Ann Cardiol Angeiol (Paris)** 1996 Jun; 45(6):329–33 (20 ref.) (Eng. Abstr.) **(Fre)**

[Tricuspid valve replacement: long-term clinical and echocardiographic follow-up] Farinas JM, et al. **Ann Chir** 1996;50(8):707–12 (Eng. Abstr.) **(Fre)**

[Pulmonary valve replacement in children] Saro-Servando E, et al. **Ann Chir** 1996;50(8):703–6 (27 ref.) (Eng. Abstr.) **(Fre)**

[Intermediary results with the CarboMedics bileaflet valvular prosthesis] Aupart M, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90(4):457–62 (27 ref.) (Eng. Abstr.) **(Fre)**

[Value of echocardiography in the study of aortic valve homografts and autografts] Habib G, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1267–76 (Eng. Abstr.) **(Fre)**

[Pre- and intraoperative management of heparin cross hypersensitivity. Apropos of a case] Latrémouille C, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1305–9 (Eng. Abstr.) **(Fre)**

[The Carpentier-Edwards porcine valve in the supra annular aortic position. Results after 12 years in a series of 1108 patients] Logeais Y, et al. **Arch Mal Coeur Vaiss** 1997 Jun; 90(6):779–88 (Eng. Abstr.) **(Fre)**

[Outcome of traumatic tricuspid insufficiency, treated surgically. Apropos of 9 cases] Richard P, et al. **Arch Mal Coeur Vaiss** 1997 Apr;90(4):451–6 (Eng. Abstr.) **(Fre)**

[Antithrombotic therapy in patients with mechanical valve prostheses] Roudaut R, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1543–50 (30 ref.) (Eng. Abstr.) **(Fre)**

[Initial results of mitral valvuloplasty using the Physio-Carpentier-Edwards ring] Sousa Uva M, et al. **Arch Mal Coeur Vaiss** 1997 Jun;90(6):789–95 (29 ref.) (Eng. Abstr.) **(Fre)**

[Long-term results over 20 years of aortic valve replacement with the standard Björk-Shiley prosthesis] Valla J, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1137–43 (17 ref.) (Eng. Abstr.) **(Fre)**

[Are there guidelines for timing readministration of anticoagulation with marcumar in patients with artificial heart valves after intracerebral hemorrhage (stroke, subarachnoid hemorrhage, subdural hematoma)? Kienast J, et al. **Internist (Berl)** 1997 Jan;38(1):83–5 **(Ger)**

[Is heart surgery in over 80-year-old patients justified?] Brandt M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1015–7 (Eng. Abstr.) **(Ger)**

[Heart rupture after mitral valve replacement. Pathologic-anatomic findings] Kuhnen C, et al. **Pathologe** 1997 May;18(3):238–42 (Eng. Abstr.) **(Ger)**

[Effect of postoperative retransfusion of autologous blood products on hemostasis in heart surgery] Walpoth-Aslan BN, et al. **Schweiz Med Wochenschr** 1996 Nov 9; 126(45):1940–3 (Eng. Abstr.) **(Ger)**

[Ostium stenosis of the left coronary artery after aortic valve replacement—2 case reports] Roithinger FX, et al. **Wien Klin Wochenschr** 1996;108(17):552–4 (Eng. Abstr.) **(Ger)**

[Ball variance and fracture of a Smeloff-Cutter prosthesis 24 years after aortic valve replacement] Hust MH, et al. **Z Kardiol** 1997 Jul;86(7):541–4 (Eng. Abstr.) **(Ger)**

[Overestimation of regurgitation velocities of intact mechanical heart valve prostheses and other small orifices with 10 mm2 Doppler echocardiography] Lepper W, et al. **Z Kardiol** 1997 May;86(5):354–62 (Eng. Abstr.) **(Ger)**

[Acute fungal endocarditis due to Trichosporon beigelli] Nesher N, et al. **Harefuah** 1997 Mar 16;132(6):396–8, 448, 447 (Eng. Abstr.) **(Heb)**

[Is tricuspid valve necessary in patients with mitral stenosis undergoing mitral valve repair or replacement?] Sagie A, et al. **Harefuah** 1996 Oct;131(7–8):260–3 (22 ref.) **(Heb)**

[Coumarin combined with low-dose acetylsalicylic acid in the prevention of thromboembolic complications in patients with mitral and aortic valve prostheses] Voith L, et al. **Orv Hetil** 1997 Apr 13;138(15):925–9 (Eng. Abstr.) **(Hun)**

[Reintervention in mitral valve prostheses. Analysis of risk factors] Arena G, et al. **Cardiologia** 1997 May;42(5):489–94 (Eng. Abstr.) **(Ita)**

[Research for the "ideal" aortic valve substitute] Colombo T. **G Ital Cardiol** 1997 Feb;27(2):146–51 (38 ref.) **(Ita)**

[Transeptal access to the mitral valve. Long-term results] Actis Dato GM, et al. **Minerva Cardioangiol** 1997 Mar; 45(3):95–100 (Eng. Abstr.) **(Ita)**

[Pseudoaneurysm of the left ventricle after mitral valve replacement. Diagnosis 6 years after the intervention] Antonielli E, et al. **Minerva Cardioangiol** 1997 May;

45(5):251–6 (Eng. Abstr.) **(Ita)**

[The preoperative treatment of patients with heart valve prostheses undergoing oral and maxillofacial surgical interventions. Our protocol] Tartaro GP, et al. **Minerva Stomatol** 1996 Oct;45(10):427–30 (Eng. Abstr.) **(Ita)**

[Right atrial thrombus recognized 18 years after tricuspid valve replacement: a case report] Ando S, et al. **J Cardiol** 1997;29 Suppl 2:59–64 (Eng. Abstr.) **(Jpn)**

[Left ventricular pseudoaneurysm recognized 9 years after mitral valve replacement and repeated heart failure of 3 years duration: a case report] Emoto R, et al. **J Cardiol** 1996;27 Suppl 2:65–71; discussion 72 (Eng. Abstr.) **(Jpn)**

[Mitral prosthetic valve replaced twice due to repeated prosthetic valve endocarditis: a case report] Hashida H, et al. **J Cardiol** 1997;29 Suppl 2:137–41 (Eng. Abstr.) **(Jpn)**

[Aortic valve replacement with stentless porcine aortic valve] Nakano K, et al. **J Cardiol** 1997;29 Suppl 2:73–8 (Eng. Abstr.) **(Jpn)**

[Preventive concomitant aortic root replacement for annuloaortic ectasia in a patient with Marfan syndrome undergoing mitral valve replacement for mitral regurgitation] Takeda M, et al. **J Cardiol** 1997;29 Suppl 2:97–101 (Eng. Abstr.) **(Jpn)**

[Cardiovascular imaging in a month. Abnormalities on a chest X-ray film in a 51-year-old man with dysfunction of mitral valve prosthesis] Tamiya E, et al. **J Cardiol** 1996 Jun; 27(6):339–40 **(Jpn)**

[Prosthetic endocarditis caused by Kingella denitrificans in a patient with diabetes mellitus] Yamaguchi Y, et al. **Kansenshogaku Zasshi** 1997 Jul;71(7):675–9 (Eng. Abstr.) **(Jpn)**

[The leaflet fracture of a 19 mm SJM (HP) valve during valve insertion to the calcified small aortic annulus] Akiyama K, et al. **Kyobu Geka** 1997 Jul;50(7):562–4 (Eng. Abstr.) **(Jpn)**

[A case report on mitral valve replacement associated with antiphospholipid syndrome in systemic lupus erythematosus] Araki Y, et al. **Kyobu Geka** 1997 Jun; 50(6):480–2 (Eng. Abstr.) **(Jpn)**

[Mitral valve re-replacement in patients aged 70 years and older: is age alone not operative risk factor?] Asakura T, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):649–52 (Eng. Abstr.) **(Jpn)**

[A case of radical operation for right-sided infective endocarditis due to Pseudomonas aeruginosa concurrent with VSD in the elderly person] Chikazawa G, et al. **Kyobu Geka** 1997 Jun;50(6):483–6 (Eng. Abstr.) **(Jpn)**

[CABG performed for LMT orifice stenosis 15 years after AVR in a case of aortitis syndrome] Chikazawa G, et al. **Kyobu Geka** 1997 May;50(5):396–9 (Eng. Abstr.) **(Jpn)**

[Successful surgical treatment for fungal endocarditis involving the aortic valve: report of a case] Fukui T, et al. **Kyobu Geka** 1996 Sep;49(10):855–8 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Simultaneous operation of aortic valve replacement and renal artery reconstruction in a patient of aortitis syndrome: a case report] Ikeda M, et al. **Kyobu Geka** 1996 Nov; 49(12):1005–7 (Eng. Abstr.) **(Jpn)**

[Echocardiographic evaluation of hemodynamic function of CarboMedics heart valve in the aortic position in patients with small aortic annuli] Imanaka K, et al. **Kyobu Geka** 1996 Jul;49(7):529–33 (Eng. Abstr.) **(Jpn)**

[PT-INR as a parameter for anticoagulant therapy after valve replacement surgery. Ishibashi Y, et al. **Kyobu Geka** 1996 Oct;49(11):906–8 (Eng. Abstr.) **(Jpn)**

[Aortic valve regurgitation due to quadricuspid valve: a report of complicated case] Kaminishi Y, et al. **Kyobu Geka** 1997 Jan;50(1):63–6 (Eng. Abstr.) **(Jpn)**

[A case report of an infective endocarditis caused by methicillin-resistant Staphylococcus aureus with successful mitral valve replacement] Kawahira T, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):680–3 (Eng. Abstr.) **(Jpn)**

[Heart valvular disease in patients 70 years old and older] Kawano H, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):645–8 (Eng. Abstr.) **(Jpn)**

[A case report of liaison psychiatry and open heart surgery in a patient with schizophrenia] Kawasaki H, et al. **Kyobu Geka** 1997 Mar;50(3):209–11 (Eng. Abstr.) **(Jpn)**

[Concomitant composite graft replacement of the aortic root and the aortic arch for type A aortic dissection] Kikuchi Y, et al. **Kyobu Geka** 1997 Jun;50(6):469–74 (Eng. Abstr.) **(Jpn)**

[A successful emergency reoperation of thrombosed CarboMedics valve in the mitral position] Kimura N, et al. **Kyobu Geka** 1997 Apr;50(4):313–6 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of aortic stenosis with polycythemia vera: a case report] Matsuyama N, et al. **Kyobu Geka** 1996 Dec; 49(13):1097–9 (15 ref.) (Eng. Abstr.) **(Jpn)**

[A case of valve thrombosis of CarboMedics prosthesis four years after mitral valve replacement: relationship of anticoagulant therapy to coagulation and fibrinolysis activating factors] Morishita A, et al. **Kyobu Geka** 1996 Oct;49(11):933–7 (Eng. Abstr.) **(Jpn)**

[A case of successful surgical treatment for active endocarditis 2 days after the onset of cerebral infarction] Nakamura K, et al. **Kyobu Geka** 1997 Apr;50(4):304–7 (Eng. Abstr.) **(Jpn)**

[Antiplatelet therapy after open heart surgery] Ohteki H, et al. **Kyobu Geka** 1996 May;49(5):353–8 (Eng. Abstr.) **(Jpn)**

[Perioperative management in patients with liver cirrhosis undergoing open heart surgery] Ota T, et al. **Kyobu Geka** 1996 Oct;49(11):916–20 (Eng. Abstr.) **(Jpn)**

[Quadricuspid aortic valve: report of a case associated with severe aortic regurgitation] Seki A, et al. **Kyobu Geka** 1996 Nov;49(12):1027–31 (31 ref.) (Eng. Abstr.) **(Jpn)**

[Mitral valve replacement and closure of ventricular septal defect in the first two months of life] Tanaka T, et al. **Kyobu Geka** 1997 Jul;50(7):577–9 (Eng. Abstr.) **(Jpn)**

[A case of coronary artery embolism after double valve replacement] Taniyasu N, et al. **Kyobu Geka** 1996 Jul; 49(7):583–6 (Eng. Abstr.) **(Jpn)**

[A case report of aortic valvuloplasty by rasping technique for aortic stenosis with small annulus simultaneously performed with mitral valve replacement] Taniyasu N, et al. **Kyobu Geka** 1997 Feb;50(2):155–7 (Eng. Abstr.) **(Jpn)**

[A case of aortic valve replacement for active infectious endocarditis with multi-organ failure preoperatively] Togashi K, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):684–7 (Eng. Abstr.) **(Jpn)**

[Single-stage correction of coarctation of the aorta with aortic regurgitation] Uchida N, et al. **Kyobu Geka** 1997 Apr;50(4):317–20 (Eng. Abstr.) **(Jpn)**

[Truncal valvoplasty for post-operative truncal valve regurgitation of truncus arteriosus: a case report] Yoshii S, et al. **Kyobu Geka** 1996 Nov;49(12):1022–5 (Eng. Abstr.) **(Jpn)**

[Postoperative electroencephalographic change in old patients with cardiac surgery] Yoshiko K, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):695–701 (Eng. Abstr.) **(Jpn)**

[Reoperation for malfunction of Ionescu-Shiley bovine pericardial bioprosthetic valves in the mitral position--special consideration with emergency operation] Abe M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan; 45(1):17–22 (Eng. Abstr.) **(Jpn)**

[Clinical study of re-do surgery after Bentall-type operation] Ando M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):606–13 (Eng. Abstr.) **(Jpn)**

[Third mitral valve replacement--review of clinical aspects and surgical management in 10 cases] Asakura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):614–22 (Eng. Abstr.) **(Jpn)**

[A case report of active aortic prosthetic valve endocarditis due to methicillin-resistant Staphylococcus epidermidis] Asakura T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1185–92 (Eng. Abstr.) **(Jpn)**

[A case of bicuspid aortic valve stenosis with single coronary artery] Ichikawa Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):796–9 (Eng. Abstr.) **(Jpn)**

[Beneficial effects of continuous hemodiafiltration after cardiac surgery in patients with chronic renal failure] Iida H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr; 45(4):550–5 (Eng. Abstr.) **(Jpn)**

[Surgical treatment of traumatic rupture of the aortic valve] Imamaki M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2050–3 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Selection of surgical procedures in heart valve diseases based on follow-up results: comparative evaluation of valve replacement and valvoplasty] Kitamura M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):406–7 **(Jpn)**

[Serratia marcescens prosthetic mitral valve endocarditis associated with hemolytic anemia] Kochi K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):860–4 (Eng. Abstr.) **(Jpn)**

[Aortic valve injury due to blunt trauma--treatment in acute phase] Kohno M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Oct;44(10):1882–6 (Eng. Abstr.) **(Jpn)**

[A successful mitral valve replacement for a 13-year-old girl with mitral stenosis and pulmonary hypertension after renal transplantation] Matsumura G, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):985–9 (Eng. Abstr.) **(Jpn)**

[A case of scheduled mitral valve replacement for mitral regurgitation caused by papillary muscle rupture after acute myocardial infarction] Minakata K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):639–44 (31 ref.) (Eng. Abstr.) **(Jpn)**

[A case of successful operation of tetralogy of Fallot in a 55-year-old man] Nishimura K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):59–63 (Eng. Abstr.) **(Jpn)**

[Valve replacement and valvoplasty in combined valvular diseases] Noji S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):407–10 **(Jpn)**

[Outcome of surgical treatment of acquired mitral valve diseases: efficacy of preservation or reconstruction of the chordae tendineae and mitral valve replacement] Ogino K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar; 45(3):412–3 **(Jpn)**

[Follow-up results and problems associated with mitral valve reconstruction using a prosthetic ring] Okada K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):329–30 **(Jpn)**

[Plausibility in selecting the method of mitral valve replacement preserving the posterior subvalvular tissue] Onizuka T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Mar;44(3):331–3 **(Jpn)**

[A case of quadricuspid aortic valve associated with aortic steno-insufficiency] Sasahashi N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1055–60 (35 ref.) (Eng. Abstr.) **(Jpn)**

[Mitral valve replacement and coronary artery bypass grafting for postinfarction mitral papillary muscle rupture] Sasaki Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 May;44(5):697–701 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Emergent mitral valve replacement in the second trimester of pregnancy] Sudoh Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1034–8 (Eng. Abstr.) **(Jpn)**

[Successful surgical repair of composite graft detachment occurred 5 months after combined Bentall's operation and graft replacement with active aortitis syndrome] Tanaka S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan; 45(1):67–72 (Eng. Abstr.) **(Jpn)**

[Aortic valve replacement due to Libman-Sacks endocarditis combined with infectious endocarditis] Taniyasu N, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1193–7 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Simultaneous mitral valve replacement and splenectomy in a patient with chronic idiopathic thrombocytopenic purpura] Yamada T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1809–13 (Eng. Abstr.) **(Jpn)**

[Late results of mitral valve replacement with porcine bioprosthesis] Aoyagi S, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):343–6 (Eng. Abstr.) **(Jpn)**

[Bioprosthetic valvular dysfunction in mitral position: three cases of commissural detachment] Aoyagi S, et al. **Rinsho Kyobu Geka** 1989 Apr;9(2):195–8 (Eng. Abstr.) **(Jpn)**

[Late clinical results of prosthetic valve replacement undergone more than ten years ago] Eguchi S, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):351–5 (Eng. Abstr.) **(Jpn)**

[Left ventricular rupture following mitral valve replacement] Fujita T, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):241–5 (16 ref.) (Eng. Abstr.) **(Jpn)**

[The porcine bioprosthetic valve in mitral positions: ten years later] Furuta S. **Rinsho Kyobu Geka** 1989 Aug;9(4):347–50 (Eng. Abstr.) **(Jpn)**

[A long-term evaluation of a Björk-Shiley valve prosthesis--eighteen year follow-up] Kawashima Y, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):335–8 (Eng. Abstr.) **(Jpn)**

[Long-term results of cardiac valve replacement: a 10- to 25-year retrospective study] Komatsu S, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):356–61 (Eng. Abstr.) **(Jpn)**

[Early and late results of St. Jude Medical prosthesis in aortic and mitral portion] Kuboyama I, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):374–80 (Eng. Abstr.) **(Jpn)**

[Mitral valve replacement following myomectomy for idiopathic hypertrophic subaortic stenosis] Shigenobu M, et al. **Rinsho Kyobu Geka** 1989 Aug;9(4):365–8 (Eng. Abstr.) **(Jpn)**

[Emergency surgery for thrombosed Björk-Shiley mitral valve prosthesis] Shigenobu M, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):487–9 (Eng. Abstr.) **(Jpn)**

[Results of heart valve replacement: especially on the selection criteria for valve prostheses and on a new anticoagulation regimen] Sugimura S, et al. **Rinsho Kyobu Geka** 1989 Jun;9(3):273–9 (Eng. Abstr.) **(Jpn)**

[Ten-year experience with the St. Jude Medical valve replacement: comparison with the Björk-Shiley valve] Watanabe S, et al. **Rinsho Kyobu Geka** 1989 Aug; 9(4):339–42 (Eng. Abstr.) **(Jpn)**

[New coronary tube for Cabrol's technique] Yokoyama M, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):160–2 (Eng. Abstr.) **(Jpn)**

[Prosthetic valve thrombosis in the aortic position] Morita K. **Ryoikibetsu Shokogun Shirizu** 1996;(13):411–4 (18 ref.) **(Jpn)**

[Postoperative cardiac arrhythmias] Yokoyama M. **Ryoikibetsu Shokogun Shirizu** 1996;(12):334–6 (5 ref.) **(Jpn)**

[Cardiac manifestations in osteogenesis imperfecta. A case report and therapeutic implications] Myrmel T, et al. **Tidsskr Nor Laegeforen** 1997 Feb 10;117(4):519–20 (Eng. Abstr.) **(Nor)**

[A patient with a prosthetic heart valve] Lubiszewska B. **Pol Arch Med Wewn** 1997 Mar;97(3):275–80 (12 ref.) **(Pol)**

[A problem with qualifying for heart surgery for a patient with severe congestive heart failure in both ventricles in the course of left aortic stenosis] Lukasik-Madej B, et al. **Pol Arch Med Wewn** 1995 Nov;94(5):447–50 (Eng. Abstr.) **(Pol)**

[Anatomo-clinical correlation. Case 3/96 (Instituto do Coração do Hospital das Clínicas-FMUSP)] **Arq Bras Cardiol** 1996 Jul;67(1):31–4 **(Por)**

[Results of aortic stenosis surgery in patients with severe ventricular dysfunction] Pomerantzeff PM, et al.

Arq Bras Cardiol 1996 Dec;67(6):375–8 (Eng. Abstr.) **(Por)**

[Mitral prosthesis dysfunction—report of 3 clinical cases with unusual ultrasonography features] Galrinho A, et al. **Rev Port Cardiol** 1996 Oct;15(10):731–6, 696 (Eng. Abstr.) **(Por)**

[Components of anesthesiological provision and central hemodynamics in hypothermia without perfusion] Naumenko SE, et al. **Anesteziol Reanimatol** 1997 Mar–Apr; (2):22–5 (Eng. Abstr.) **(Rus)**

[Dynamics of lipid peroxidation in correction of acquired heart diseases under conditions of hypothermia without perfusion] Tsvetovskaia GA, et al. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):39–41 **(Rus)**

[Aortic valve prosthesis and the plication of a dissecting aneurysm of the ascending aorta in a patient with infectious endocarditis against a background of chronic kidney failure and its management by regular hemodialysis] Uglov FG, et al. **Vestn Khir Im I I Grek** 1996;155(2):9–14 (28 ref.) (Eng. Abstr.) **(Rus)**

[Evaluation of planimetric parameters in various mechanical heart valve prostheses] Simkovic I, et al. **Rozhl Chir** 1996 Sep;75(9):438–40 (Eng. Abstr.) **(Slo)**

[Dynamic and cinematic evaluation of the function of bioprosthesis in the aortic position: tester of cardiac valves] Bustamante J, et al. **Arch Inst Cardiol Mex** 1996 May–Jun; 66(3):229–43 (Eng. Abstr.) **(Spa)**

[Asymptomatic aortic dissection in a patient with aortic valve prosthesis] Sánchez Calle JM, et al. **Rev Esp Cardiol** 1997 Apr;50(4):287–9 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Infective endocarditis and occult splenic abscess caused by Brucella melitensis infection: a case report and review of the literature. Saadeh AM, et al. **Acta Cardiol** 1996; 51(3):279–85 (32 ref.)

Comparison of frequency of left atrial thrombus in patients with mechanical prosthetic cardiac valves and stroke versus transient ischemic attacks. Barbetseas J, et al. **Am J Cardiol** 1997 Aug 15;80(4):526–8

Efficacy of serial electrical cardioversion therapy in patients with chronic atrial fibrillation after valve replacement and implications for surgery to cure atrial fibrillation. Crijns HJ, et al. **Am J Cardiol** 1996 Nov 15;78(10):1140–4

Postoperative mitral valve abscess. A case report. Pamidi S, et al. **Angiology** 1997 Aug;48(8):749–52

Spontaneous echo contrast in mechanical valve prosthesis [letter; comment] Cheng TO. **Ann Thorac Surg** 1997 Jun; 63(6):1826–7. Comment on: Ann Thorac Surg 1996 Dec;62(6):1790–5.

Mechanical valves [letter; comment] David TE, et al. **Ann Thorac Surg** 1996 Nov;62(5):1567–70. Comment on: Ann Thorac Surg 1995 Dec;60(6):1836–44.

Allograft aortic root replacement in prosthetic aortic valve endocarditis: a review of 32 patients. Dossche KM, et al. **Ann Thorac Surg** 1997 Jun;63(6):1644–9

Results with mechanical cardiac valvular prostheses [letter; comment] Horstkotte D. **Ann Thorac Surg** 1996 Nov; 62(5):1565–7. Comment on: Ann Thorac Surg 1995 Dec;60(6):1836–44.

Left atrial spontaneous echo contrast in asymptomatic patients with a mechanical valve prosthesis [see comments] Lee TM, et al. **Ann Thorac Surg** 1996 Dec;62(6):1790–5. Comment in: Ann Thorac Surg 1997 Jun;63(6):1826–7.

Mechanical valve performance [letter; comment] O'Hair DP, et al. **Ann Thorac Surg** 1996 Nov;62(5):1570–1. Comment on: Ann Thorac Surg 1995 Dec;60(6):1836–44.

Five-year follow-up after heart valve replacement with the CarboMedics bileaflet prosthesis. Rödler SM, et al. **Ann Thorac Surg** 1997 Apr;63(4):1018–25

Periprosthetic mitral leakage in a patient with a prior aortic valve prosthesis [letter] Terada Y, et al. **Ann Thorac Surg** 1997 Feb;63(2):597

Prosthetic valve endocarditis due to Streptococcus pneumoniae [letter] Collazos J, et al. **Arch Intern Med** 1996 Oct 14;156(18):2141, 2146, 2148 (10 ref.)

D-dimer and anticoagulation in patients with mechanical prosthetic heart valves. A 2-year follow-up. Giansante C, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1320–4

Is the dog a useful model for accelerated calcification study of cardiovascular bioprostheses? Chanda J, et al. **Artif Organs** 1997 May;21(5):391–5

The inflexible mitral annulus after valve prosthesis. Inherent risk of dynamic left ventricular outflow tract obstruction. Komoda T, et al. **ASAIO J** 1996 Sep–Oct;42(5):M372–5

Regional distribution of calcification in aortic valve cusps. An in vivo study. Mako WJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M365–7

Complement activation is involved in the structural deterioration of bovine pericardial bioprosthetic heart valves. Moczar M, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M375–81

Platelets are deposited early post-operatively on the leaflet of a mechanical heart valve in sheep without post-operative anticoagulants or antiplatelet agents. A scanning electron microscopic observation of the pyrolytic carbon surface in a mechanical heart valve. Okazaki Y, et al. **ASAIO J** 1996 Sep–Oct;42(5):M750–4

Biochemical pathways of tissue degeneration in bioprosthetic cardiac valves. The role of matrix metalloproteinases. Simionescu A, et al. **ASAIO J** 1996 Sep–Oct;42(5):M561–7

Transient pressure signals in mechanical heart valve cavitation. Wu ZJ, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M555–61

In vivo observation of cavitation on prosthetic heart valves. Zapanta CM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M550–5

Osteopontin is associated with bioprosthetic heart valve calcification in humans. Shen M, et al. **C R Acad Sci III** 1997 Jan;320(1):49–57

Recombinant tissue type plasminogen activator treatment of thrombosed mitral valve prosthesis during pregnancy. Fleyfel M, et al. **Can J Anaesth** 1997 Jul;44(7):735–8

Hemodynamic stabilization of acute prosthetic valve thrombosis using percutaneous catheter manipulation. Jabbour S, et al. **Cathet Cardiovasc Diagn** 1996 Nov; 39(3):314–6

Optimal antithrombotic therapy for mechanical prosthetic heart valves [editorial; comment] Chesebro JH, et al. **Circulation** 1996 Nov 1;94(9):2055–6. Comment on: Circulation 1996 Nov 1;94(9):2107–12.

Prosthetic heart valve dysfunction [letter; comment] Gavaliatsis IP. **Circulation** 1996 Dec 1;94(11):2994–5. Comment on: Circulation 1995 Sep 1;92(5):1348.

Mitral valve dysfunction resulting from thickening and stiffening of artificial mitral valve chordae. Kobayashi Y, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II129–32

Recurrent thrombosis of bileaflet prosthetic valves [letter; comment] Montorsi P, et al. **Circulation** 1997 Mar 18; 95(6):1672. Comment on: Circulation 1996 Jun 1;93(11):2088.

Oral ciprofloxacin therapy for prosthetic valve endocarditis due to Actinobacillus actinomycetemcomitans. Babinchak TJ. **Clin Infect Dis** 1995 Dec;21(6):1517–8

Prosthetic valve endocarditis due to Veillonella dispar: successful medical treatment following penicillin desensitization. Houston S, et al. **Clin Infect Dis** 1997 May; 24(5):1013–4

Community-acquired prosthetic valve endocarditis due to methicillin-resistant Staphylococcus aureus. Mallory MA, et al. **Clin Infect Dis** 1997 Jun;24(6):1272–3

Late failure of surgical treatment for bioprosthetic valve endocarditis due to Candida tropicalis. Mansur AJ, et al. **Clin Infect Dis** 1996 Feb;22(2):380–1

Clinical outcome and long-term prognosis of late prosthetic valve endocarditis: a 20-year experience. Tornos P, et al. **Clin Infect Dis** 1997 Mar;24(3):381–6

Influence of age on valve related events with Carpentier-Edwards pericardial bioprosthesis. Aupart M, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):929–34

Guidelines for reporting morbidity and mortality after cardiac valvular operations. Edmunds LH Jr, et al. **Eur J Cardiothorac Surg** 1996;10(9):812–6

Spontaneous obliteration of a pseudo-aneurysm complicating an aortic homograft. Federmann M, et al. **Eur J Cardiothorac Surg** 1996;10(8):705–6 (5 ref.)

Transcranial Doppler detection of microemboli in prosthetic heart valve patients: dependency upon valve type. Georgiadis D, et al. **Eur J Cardiothorac Surg** 1996; 10(4):253–7; discussion 257–8

Surgical approach for replacement of degenerated mitral bioprostheses [letter] Mazzucco A, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):329–31

Native and prosthetic valve endocarditis caused by Rothia dentocariosa: diagnostic and therapeutic considerations. Binder D, et al. **Infection** 1997 Jan–Feb;25(1):22–6

Recurrent aortic valve prosthesis dehiscence secondary to aortoarteritis: three case reports and literature review. Chau EM, et al. **Int J Cardiol** 1996 Oct 11;56(2):113–8 (12 ref.)

Intraoperative transesophageal echocardiographic diagnosis of prosthetic conduit compression after valved conduit replacement of the ascending aorta. Bruefach M 3rd, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):778–80

Prosthetic valve endocarditis due to Legionella pneumophila. Chen TT, et al. **J Cardiovasc Surg (Torino)** 1996 Dec; 37(6):631–3

Surgical management of endocarditis-induced aorto-atrial and aorto-ventricular fistula: a new technique. Gharagozloo F, et al. **J Cardiovasc Surg (Torino)** 1997 Apr; 38(2):131–5

Position-related factors in mitral and tricuspid bioprostheses degenerative changes. Leprince P, et al. **J Cardiovasc Surg (Torino)** 1997 Jun;38(3):223–6

Increased cellular expression of matrix proteins that regulate mineralization is associated with calcification of native human and porcine xenograft bioprosthetic heart valves. Srivatsa SS, et al. **J Clin Invest** 1997 Mar 1;99(5):996–1009

Electron microscopy and serological features of a patient with Q fever prosthetic valve endocarditis. Isalska BJ, et al. **J Clin Pathol** 1996 Aug;49(8):679–87

Thrombolytic therapy for mitral valve thrombosis. Lin TK, et al. **J Formos Med Assoc** 1997 May;96(5):382–5

Fibrinogen and leukocyte activation-the keys to understanding prosthetic valve thrombosis? [editorial] Butchart EG. **J Heart Valve Dis** 1997 Jan;6(1):9–16

Intracardiac air clearing in valvular surgery guided by transesophageal echocardiography. Dalmas JP, et al. **J Heart Valve Dis** 1996 Sep;5(5):553–7

Peculiar patterns of aortic regurgitation and carotid pulse due to dysfunction of a Medtronic Hall prosthetic valve: a case report. Fukuda N, et al. **J Heart Valve Dis** 1996 May;5(3):283–5

A microstructural flow analysis within a bileaflet mechanical heart valve hinge [see comments] Gross JM, et al. **J Heart Valve Dis** 1996 Nov;5(6):581–90. Comment in: J Heart Valve Dis 1996 Nov;5(6):572–3.

Periprosthetic leaks and valve dehiscence: alternative methods of repair. Konstantinov IE, et al. **J Heart Valve Dis** 1997 May;6(3):281–7

The impact of transesophageal echocardiography on the management of prosthetic valve endocarditis: experience of 31 cases and review of the literature. Lengyel M. **J Heart Valve Dis** 1997 Mar;6(2):204–11 (48 ref.)

Reoperation for prosthetic thrombosis and acute neurologic injury. Milano A, et al. **J Heart Valve Dis** 1997 May; 6(3):324–6

Risk of recurrence after reoperation for prosthetic valve endocarditis. Pansini S, et al. **J Heart Valve Dis** 1997 Jan; 6(1):84–7

Passive retrograde cerebral perfusion during routine cardiac valve surgery reverses middle cerebral artery blood flow and reduces the risk of stroke. Quigley RL, et al. **J Heart Valve Dis** 1997 May;6(3):288–91

Stentless fresh pulmonary homograft for recurrent mitral prosthetic valve endocarditis [letter; comment] Renzulli A, et al. **J Heart Valve Dis** 1997 May;6(3):329. Comment on: J Heart Valve Dis 1996 Nov;5(6):607–22.

Thrombolysis for prosthetic valve thrombosis: indications and results. Renzulli A, et al. **J Heart Valve Dis** 1997 Mar; 6(2):212–8

Left ventricular rupture following mitral valve replacement [letter; comment] Robicsek F. **J Heart Valve Dis** 1996 Sep; 5(5):571. Comment on: J Heart Valve Dis 1996 Jan;5(1):10–15.

Surgical management of prosthetic valve obstruction with the Sorin tilting disc prosthesis. Sivasubramanian S, et al. **J Heart Valve Dis** 1996 Sep;5(5):548–52

Impregnation of sewing ring with antibiotics to avoid prosthetic valve endocarditis [letter; comment] Actis Dato GM, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):145–6 . Comment on: J Thorac Cardiovasc Surg 1996 Aug;112(2):248–52.

Fungal prosthetic valve endocarditis in 16 patients. An 11-year experience in a tertiary care hospital. Melgar GR, et al. **Medicine (Baltimore)** 1997 Mar;76(2):94–103

Prosthetic heart valves [letter; comment] Pettelot G. **N Engl J Med** 1997 Jan 16;336(3):222–3; discussion 223–4 . Comment on: N Engl J Med 1996 Aug 8;335(6):407–16.

Gemella morbillorum prosthetic valve endocarditis [letter] Holland J, et al. **N Z Med J** 1996 Sep 27;109(1030):367

Infective endocarditis. Considerations for the timing of surgical intervention and type of infecting microorganism. Yamauchi S, et al. **Nippon Ika Daigaku Zasshi** 1997 Feb; 64(1):16–21

Bigated transcranial Doppler for the detection of clinically silent circulating emboli in normal persons and patients with prosthetic cardiac valves. Droste DW, et al. **Stroke** 1997 Mar;28(3):588–92

Doppler microembolic signals in children with prosthetic cardiac valves. Georgiadis D, et al. **Stroke** 1997 Jul; 28(7):1328–9

Clinically silent microemboli in patients with artificial prosthetic aortic valves are predominantly gaseous and not solid. Kaps M, et al. **Stroke** 1997 Feb;28(2):322–5

Fracture embolization of a Duromedics mitral prosthesis. Baumgartner FJ, et al. **Tex Heart Inst J** 1997;24(2):122–4

Obstruction of Sorin tilting disc mitral prostheses: lessons learned [letter; comment] Sivasubramanian S. **Tex Heart Inst J** 1997;24(1):76–7. Comment on: Tex Heart Inst J 1996;23(2):167–9.

Embolization of a complete prosthetic aortic valve to the abdominal aorta. Long-term survival after surgery. Villani M, et al. **Tex Heart Inst J** 1996;23(3):236–7

Survival despite almost complete fibrous obstruction of a Sorin tilting disc mitral prosthesis [see comments] Vitale N, et al. **Tex Heart Inst J** 1996;23(2):167–9. Comment in: Tex Heart Inst J 1997;24(1):76–7.

Fibrous tissue overgrowth and prosthetic valve endocarditis: report of a case. Kaneko Y, et al. **Thorac Cardiovasc Surg** 1997 Jun;45(3):150–2

Enhanced response to chemotactic activation of polymorphonuclear leukocytes from patients with heart valve replacement. Maugeri N, et al. **Thromb Haemost** 1997 Jan;77(1):71–4

Antithrombotic therapy following heart valve replacement. Turpie AG. **Thromb Haemost** 1997 Jul;78(1):382–5 (25 ref.)

Inhibition of blood coagulation activation and oral anticoagulants in patients with mechanical heart valve prostheses. Barcellona D, et al. **Thromb Res** 1996 Feb 1; 81(3):403–6

Relationship between changes in F1+2 and TAT levels and blood coagulation early after prosthetic valve replacement. Nakamura K, et al. **Thromb Res** 1997 Apr 15;86(2):161–71

Diminutive Russian prosthetic heart valve as an iatrogenic cause of mitral stenosis. Michaels AD, et al. **West J Med** 1997 May;166(5):347–50

[Thrombolytic therapy with rt-PA of recurrent thrombosis in tricuspid valve prosthesis during pregnancy] Di Roio C, et al. **Ann Fr Anesth Reanim** 1996;15(5):666–8 (Eng. Abstr.) **(Fre)**

[Thrombosis on the mitral valve prosthesis and disseminated cancer: treatment by fibrinolysis] Chevalier P, et al. **Arch Mal Coeur Vaiss** 1996 Sep;89(9):1209–11 (Eng. Abstr.) **(Fre)**

[Outcome of cardiac valve ring abscesses after medical treatment: attempt to identify criteria of favorable prognosis] Tribouilloy C, et al. **Presse Med** 1996 Sep 28;

25(28):1276–80 (Eng. Abstr.) **(Fre)**

[Localized pulmonary opacities detected by x-ray computed tomography] Giron J, et al. **Rev Pneumol Clin** 1996; 52(4):261–2 **(Fre)**

[Successful coronary angioplasty in a patient with acute myocardial infarction caused by prosthetic valve endocarditis] Takimoto E, et al. **J Cardiol** 1996;27 Suppl 2:103–8; discussion 109–10 (Eng. Abstr.) **(Jpn)**

[Anticoagulant therapy and obstetric management in a pregnant patient with mechanical prosthetic valve] Kimura K, et al. **Kyobu Geka** 1996 Sep;49(10):821–6 (Eng. Abstr.) **(Jpn)**

[A case report of type A dissection of the aorta presenting as a superior vena cava syndrome 10 years after aortic valve replacement] Murai N, et al. **Kyobu Geka** 1997 Feb; 50(2):146–9 (Eng. Abstr.) **(Jpn)**

[Hemobilia after percutaneous transhepatic gallbladder drainage for cholecystitis in a patient undergoing aortic valve replacement] Tago K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1020–3 (Eng. Abstr.) **(Jpn)**

[MRSA-induced prosthetic valve endocarditis complicated by synthetic graft infection that did not respond to repeated vancomycin administration but improved after surgery] Tanaka K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1767–71 (Eng. Abstr.) **(Jpn)**

[Mitral prosthetic valve endocarditis (M-PVE)] Abe T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):393–5 (17 ref.) **(Jpn)**

[Prosthetic valve endocarditis] Yamada S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):464–6 (9 ref.) **(Jpn)**

[The failing heart valve. History of the Björk-Shiley convex-concave heart valve] Sivertssen E. **Tidsskr Nor Laegeforen** 1996 Sep 20;116(22):2666–8 (Eng. Abstr.) **(Nor)**

[Long term results of the use of Björk-Shiley convex-concave heart valves. Ullevol hospital 1978–83] Sivertssen E, et al. **Tidsskr Nor Laegeforen** 1996 Sep 20; 116(22):2662–5 (Eng. Abstr.) **(Nor)**

[Rupture of the posterior wall of the left ventricle after mitral valve prosthesis] Dobrotin SS, et al. **Vestn Khir Im I I Grek** 1997;156(2):112–5 (Eng. Abstr.) **(Rus)**

[The potentials of echocardiography in the diagnosis of infectious endocarditis of a valve prosthesis] Shevchenko IuL, et al. **Vestn Khir Im I I Grek** 1997;156(3):97–100 (64 ref.) **(Rus)**

[Acute heart failure in a patient with a metal mitral prosthesis] Alvarez Blanco P, et al. **Rev Clin Esp** 1996 Jul; 196(7):469–70 **(Spa)**

[Early thrombosis of aortic porcine bioprosthesis] Gutiérrez Morlote J, et al. **Rev Esp Cardiol** 1996 Oct;49(10):773–5 (Eng. Abstr.) **(Spa)**

[Prevention of heart embolism in low-risk patients is expensive (letter)] Kobosko J. **Lakartidningen** 1996 Oct 30; 93(44):3885–6 **(Swe)**

INSTRUMENTATION

The Biomed caged-ball cardiac valve prosthesis. A study of 120 implants. Rosillo Izquierdo P, et al. **Arch Med Res** 1997 Spring;28(1):79–84

Stentless aortic valve replacement with the biocor prosthesis: indications and outcome. Achtelik M, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S314–6

The small aortic root and the Medtronic Hall valve: ultrafast computed tomography assessment of left ventricular mass following aortic valve replacement. Anderson WA, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S329–35

Double valve replacement with the Carpentier-Edwards pericardial valve: 10-year results. Aupart MR, et al. **J Heart Valve Dis** 1996 May;5(3):312–6

Doppler echocardiographic study of three different mechanical valves in the aortic position: the use of external nominal diameter indexed to body surface area [see comments] Bailly P, et al. **J Heart Valve Dis** 1997 May; 6(3):236–48. Comment in: J Heart Valve Dis 1997 May;6(3):234.

Development of the Chitra tilting disc heart valve prosthesis. Bhuvaneshwar GS, et al. **J Heart Valve Dis** 1996 Jul; 5(4):448–58

Hemodynamic characterization of the CarboMedics mitral valve prosthesis. Bjørnerheim R, et al. **J Heart Valve Dis** 1997 Mar;6(2):115–22

Hemodynamic performance of the Edwards Prima stentless valve. Bortolotti U, et al. **J Heart Valve Dis** 1997 Mar; 6(2):134–7

Doppler-echocardiographic assessment of the carbomedics supra-annular 'Top-Hat' prosthetic heart valve in the aortic position. de Brux JL, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S336–8

Hemodynamic performances of small diameter carbomedics and St. Jude valves. De Paulis R, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S339–43

Pyrolytic carbon indentation crack morphology. Ely JL, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S65–71

Theory of wear as related to the Björk-Shiley Delrin disc heart valve. Engel PA, et al. **J Heart Valve Dis** 1996 Aug; 5 Suppl 2:S216–28

The influence of the design on the medium to long-term hemodynamic behavior of 19 mm pericardial aortic valve prostheses. Gonzalez-Juanatey JR, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S317–23

Wear patterns in the Sorin Bicarbon mechanical heart valve: a clinical explant study. Hasenkam JM, et al. **J Heart Valve Dis** 1997 Mar;6(2):105–14

Hemodynamics of St. Jude Medical prostheses in the small aortic root: in vivo studies using dobutamine Doppler echocardiography. Kadir I, et al. **J Heart Valve Dis** 1997 Mar;6(2):123–9

Concomitant procedures in the small versus standard aortic root. Knez I, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S294–301

Choice of replacement valve in the elderly. Kobayashi Y, et al. **J Heart Valve Dis** 1997 Jul;6(4):404–9

Aortic valve replacement in elderly women with small aortic roots: comparing sorin pericardial and St.Jude Medical mechanical valves. Mahon BD, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S324–8

Can mechanical valve prostheses be recommended in the tricuspid position? [letter; comment] Peterffy A, et al. **J Heart Valve Dis** 1996 Sep;5(5):570–1. Comment on: J Heart Valve Dis 1996 May;5(3):337–42.

Small aortic root in the elderly: use of stentless bioprosthesis. Sintek CF, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S308–13

Evaluation of disc retention of Björk-Shiley Delrin heart valves. Thyagarajan K, et al. **J Heart Valve Dis** 1996 Aug; 5 Suppl 2:S243–5

Discrepancy of sizers for conventional and stentless aortic valve implants. Walther T, et al. **J Heart Valve Dis** 1997 Mar;6(2):145–8

Stentless bioprostheses for the small aortic root. Walther T, et al. **J Heart Valve Dis** 1996 Nov;5 Suppl 3:S302–7

In vivo comparison of hemocompatibility of materials used in mechanical heart valves. Yang Y, et al. **J Heart Valve Dis** 1996 Sep;5(5):532–7

An in vivo method for testing hemocompatibility of materials used in prosthetic heart valves. Yang Y, et al. **J Heart Valve Dis** 1996 Sep;5(5):526–31

The CryoLife-O'Brien composite stentless porcine aortic xenograft valve in 118 patients. Garlick RB, et al. **Jpn Circ J** 1997 Aug;61(8):682–6

The integrated design of mechanical bi-leaflet prosthetic heart valves. David T, et al. **Med Eng Phys** 1996 Sep; 18(6):452–62

Dynamic analysis and geometry models for the design of bi-leaflet prosthetic mechanical heart valves. David T, et al. **Med Eng Phys** 1996 Sep;18(6):463–76

Conduit-mounted cardiac valve prostheses: a review of their uses, design and in vivo performance. Gentle CR, et al. **Med Eng Phys** 1996 Jun;18(4):263–72 (89 ref.)

Prosthetic heart valves [letter; comment] Sundt TM, et al. **N Engl J Med** 1997 Jan 16;336(3):223; discussion 223–4. Comment on: N Engl J Med 1996 Aug 8;335(6):407–16.

Prosthetic heart valves [letter; comment] Walther T, et al. **N Engl J Med** 1997 Jan 16;336(3):222; discussion 223–4. Comment on: N Engl J Med 1996 Aug 8;335(6):407–16.

25 years follow-up of patients after replacement of the aortic valve with a Smeloff-Cutter prosthesis. Gödje O, et al. **Thorac Cardiovasc Surg** 1996 Oct;44(5):234–8

Is a bioprosthesis preferable in tricuspid valve replacement? Hayashi J, et al. **Thorac Cardiovasc Surg** 1996 Oct; 44(5):230–3

METHODS

Technique for reconstruction of the sinotubular junction. Bhatnagar G, et al. **Ann Thorac Surg** 1997 Feb;63(2):559–60

Prosthetic mitral valve replacement: late complications after native valve preservation [see comments] Esper E, et al. **Ann Thorac Surg** 1997 Feb;63(2):541–3. Comment in: Ann Thorac Surg 1997 Aug;64(2):593–4.

Single access for minimally invasive aortic valve replacement. Minale C, et al. **Ann Thorac Surg** 1997 Jul; 64(1):120–3

Two-directional aortic annular enlargement for aortic valve replacement in the small aortic annulus. Otaki M, et al. **Ann Thorac Surg** 1997 Jan;63(1):261–3

"Patch-glue" annular reconstruction for mitral valve replacement in severely calcified mitral annulus. Ruvolo G, et al. **Ann Thorac Surg** 1997 Feb;63(2):570–1

Aortic valve replacement via left thoracotomy after an esophageal operation. Takahara Y, et al. **Ann Thorac Surg** 1997 Jan;63(1):225–7

Mitral valve reconstruction: long-term results of 120 cases. Soyer R, et al. **Cardiovasc Surg** 1996 Dec;4(6):813–9

Tissue-engineered heart valves. Autologous valve leaflet replacement study in a lamb model. Shinoka T, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II164–8

Porcine mitral stentless valve mid-term clinical results. Vrandecic M, et al. **Eur J Cardiothorac Surg** 1997 Jul; 12(1):56–62

Valve replacement with the ATS open pivot bileaflet prosthesis. Westaby S, et al. **Eur J Cardiothorac Surg** 1996; 10(8):660–5

Combined aortic and mitral valve replacement in an adult with mucopolysaccharidosis (Maroteaux-Lamy syndrome). Hachida M, et al. **Heart Vessels** 1996;11(4):215–7

Mitral valve repair-related hemolysis: a report of two cases. Brandon Bravo Bruinsma GJ, et al. **Int J Cardiol** 1997 Aug 8;60(3):317–20

Intravalvular implantation of aortic valve prosthesis. Ghosh PK, et al. **J Card Surg** 1996 Nov-Dec;11(6):432–3

A continuous suture technique for mechanical or bioprosthetic aortic valve replacement. Ricchi A, et al. **J Card Surg** 1996 Jan-Feb;11(1):68–70

Improvement of jugular bulb oxygen tension after hemodynamic support by intra-aortic balloon counterpulsation. Loick HM, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):83–5

Mitral valve replacement with total preservation of native valve and subvalvular apparatus. Aagaard J, et al. **J Heart Valve Dis** 1997 May;6(3):274–8; discussion 279–80

Feasibility evaluation of a new pericardial bioprosthesis with dye mediated photo-oxidized bovine pericardial tissue. Bianco RW, et al. **J Heart Valve Dis** 1996 May;5(3):317–22

Aortic valve replacement: better myocardial protection by cold or warm retrograde blood cardioplegia? Boening A, et al. **J Heart Valve Dis** 1996 May;5(3):273–80

Surgery for aortic root aneurysm with aortic insufficiency [editorial; comment] David TE. **J Heart Valve Dis** 1996 May;5(3):238–9. Comment on: J Heart Valve Dis 1996 May;5(3):240–6. Comment on: J Heart Valve Dis 1996 May;5(3):247–50.

Surgery for rheumatic mitral regurgitation in patients below twenty years of age. An analysis of failures. Gometza B, et al. **J Heart Valve Dis** 1996 May;5(3):294–301

Mitral homograft for tricuspid valve endocarditis complicating a congenital fistula between the right coronary artery and right ventricle. Hvass U, et al. **J Heart Valve Dis** 1996 Sep;5(5):564–6

Long term results of mitral valve replacement with preservation of the posterior leaflet. Katircioglu F, et al. **J Heart Valve Dis** 1996 May;5(3):302–6

Replacement of the ascending aorta with composite valve grafts: long term results [see comments] Lepore V, et al. **J Heart Valve Dis** 1996 May;5(3):240–6. Comment in: J Heart Valve Dis 1996 May;5(3):238–9.

Surgical repair of extensive myocardial infarction: ventricular aneurysmectomy according to Dor with exclusion-closure of ventricular septal perforation and mitral replacement: a case report. Robicsek F. **J Heart Valve Dis** 1996 Sep; 5(5):561–3

Improved regional left ventricular performance in mitral valve replacement with orthotopic refixation of the anterior mitral leaflet. Straub UJ, et al. **J Heart Valve Dis** 1997 Jul;6(4):395–403

Aortic valve replacement in patients 50 years old or younger with the St. Jude Medical valve: 14-year experience. Tatoulis J, et al. **J Heart Valve Dis** 1996 Sep;5(5):491–7

Six-and-half years' experience with the St. Jude BioImplant porcine prosthesis. Triggiani M, et al. **J Heart Valve Dis** 1997 Mar;6(2):138–44

New-generation valved conduit: an experimental study. Chanda J, et al. **J Thorac Cardiovasc Surg** 1997 Aug; 114(2):218–23

Hemodynamic benefits of the Toronto Stentless Valve. Del Rizzo DF, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1431–45; discussion 1445–6

Right thoracotomy as a safer approach in redo mitral valve replacement [letter] el Sayed H, et al. **Tex Heart Inst J** 1996;23(2):188

Ultrasonic decalcification of calcified valve and annulus during heart valve replacement. Unal M, et al. **Tex Heart Inst J** 1996;23(2):85–7

[Successful redo-AVR with cryopreserved allograft for prosthetic valve endocarditis : report of a case] Imanaka K, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):693–6 (Eng. Abstr.) **(Jpn)**

[A case report of aortic root replacement with fresh aortic homograft for valve detachment due infective endocarditis] Niwaya K, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):688–92 (Eng. Abstr.) **(Jpn)**

[Simultaneous tricuspid valve operation in patients undergoing aortic and mitral double valve replacement] Ohtsuka G, et al. **Kyobu Geka** 1997 May;50(5):351–5; discussion 355–7 (Eng. Abstr.) **(Jpn)**

[A case of primary tissue failure in aortic bioprosthesis due to pannus formation] Kumano H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):1012–4 (Eng. Abstr.) **(Jpn)**

[Successful surgical treatment of intraoperative aortic dissection complicating aortic valve replacement] Ozaki S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul; 44(7):1022–6 (Eng. Abstr.) **(Jpn)**

[The problem of 19 mm St. Jude Medical valve prosthesis in the small aortic annuls--19 mm St. Jude Medical valve vs 23 mm St. Jude Medical valve] Yamanaka K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Jul;44(7):906–11 (Eng. Abstr.) **(Jpn)**

[Aortic valve replacement via ministernotomy] Rodríguez JE, et al. **Rev Esp Cardiol** 1996 Dec;49(12):928–30 (4 ref.) (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Incidence and risk of developing fungal prosthetic valve endocarditis after nosocomial candidemia. Nasser RM, et al. **Am J Med** 1997 Jul;103(1):25–32

Antibiotic-impregnated heart valve sewing rings for treatment and prophylaxis of bacterial endocarditis. Cimbollek M, et al. **Antimicrob Agents Chemother** 1996 Jun; 40(6):1432–7

Microbiological cultures of heart valves and valve tags are not valuable for patients without infective endocarditis who are undergoing valve replacement. Giladi M, et al. **Clin Infect Dis** 1997 May;24(5):884–8

Candida prosthetic valve endocarditis: prospective study of six cases and review of the literature. Nguyen MH, et al. **Clin Infect Dis** 1996 Feb;22(2):262-7 (21 ref.)

MORTALITY

Do small aortic valves influence long-term survival? [editorial; comment] Christakis GT, et al.
Ann Thorac Surg 1997 Apr;63(4):933-4. Comment on: Ann Thorac Surg 1997 Apr;63(4):964-70.

Background mortality and aortic valve replacement in the elderly [letter; comment] Moulijn AC, et al.
Ann Thorac Surg 1997 Jan;63(1):300-1. Comment on: Ann Thorac Surg 1996 Jun;61(6):1746-51.

Nineteen-millimeter aortic St. Jude Medical heart valve prosthesis: up to sixteen years' follow-up [see comments] Sawant D, et al. **Ann Thorac Surg** 1997 Apr;63(4):964-70 . Comment in: Ann Thorac Surg 1997 Apr;63(4):933-4.

Thirty years experience with heart valve surgery: isolated aortic valve replacement. Bessell JR, et al.
Aust N Z J Surg 1996 Dec;66(12):799-805

Thirty years experience with heart valve surgery: isolated mitral valve replacement. Bessell JR, et al.
Aust N Z J Surg 1996 Dec;66(12):806-12

The Denolin Lecture 1996. Mechanical heart valves. Conclusions from long-term follow-up. Nitter-Hauge S. **Eur Heart J** 1997 Jun;18(6):907-10 (17 ref.)

Survival and cause of death after mitral valve replacement in patients aged 80 years and over: collective results from the UK heart valve registry. Asimakopoulos G, et al.
Eur J Cardiothorac Surg 1997 May;11(5):922-8

Single-institution effectiveness assessment of open-heart surgery in octogenarians. de Mol BA, et al.
Eur J Cardiothorac Surg 1997 Aug;12(2):285-90

Guidelines for reporting morbidity and mortality after cardiac valvular operations. Edmunds LH Jr, et al.
Eur J Cardiothorac Surg 1996;10(9):812-6

Long-term relative survival after primary heart valve replacement. Ståhle E, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):81-91

Poor clinical performance of the Wessex porcine heart valve bioprosthesis at nine years' follow up. Hurlé A, et al.
Heart 1997 Apr;77(4):319-24

The Carbomedics prosthetic heart valve: four year follow-up in 100 patients. Aupart MR, et al.
J Cardiovasc Surg (Torino) 1996 Dec;37(6):597-601

The potential for normal long term survival and morbidity rates after valve replacement for aortic stenosis. Lund O, et al. **J Heart Valve Dis** 1996 May;5(3):258-67

[Long-term clinical results with a new surgical method for the fragile valvular annulus] Moro H, et al.
Kyobu Geka 1997 Mar;50(3):175-8; discussion 178-80 (Eng. Abstr.) **(Jpn)**

[Long-term results of cardiac valve replacement with a Delrin-disk model of the Björk-Shiley valve prosthesis--comparative analysis with the Spherical-disk model] Hirai M, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 Nov; 44(11):1986-92 (Eng. Abstr.) **(Jpn)**

[Surgical results of valve replacement with porcine bioprostheses] Saigenji H, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 May;44(5):634-40 (Eng. Abstr.) **(Jpn)**

[Surgical results of valve replacement with the Björk-Shiley tilting disc valves] Saigenji H, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 May;44(5):641-5 (Eng. Abstr.) **(Jpn)**

NURSING

The Ross procedure for replacement of diseased aortic valves. Bower JO. **AORN J** 1996 Dec;64(6):966, 969-72

Marfan's syndrome and surgical repair of ascending aortic aneurysms. Wieczorek P, et al. **AORN J** 1996 Dec; 64(6):895-913; quiz 916-8, 921-2 (46 ref.)

PSYCHOLOGY

Predicting completeness of symptom relief after major heart surgery. Jenkins CD, et al. **Behav Med** 1996 Summer; 22(2):45-57

REHABILITATION

[Evaluation of the effectiveness of an ambulatory after-care rehabilitation program] Röseler S, et al.
Gesundheitswesen 1997 Apr;59(4):236-41 (Eng. Abstr.) **(Ger)**

STANDARDS

In vitro function and durability assessment of a novel polyurethane heart valve prosthesis. Mackay TG, et al. **Artif Organs** 1996 Sep;20(9):1017-25

Study of the effect of atrial contraction on mitral prosthetic valve by high speed video camera. Naemura K, et al.
Artif Organs 1997 Apr;21(4):300-5

Nonsymmetric leaflet motion of St. Jude Medical mitral valves simulated with a computer-controlled hydraulic mock circulator. Ohta Y, et al. **Artif Organs** 1997 Apr; 21(4):335-9

Clinical use of CarboMedics and St. Jude Medical valves. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1299-303

Performance assessment of prosthetic heart valves using the energy index method. Souza-Campos F, et al.
ASAIO J 1996 May-Jun;42(3):170-6

A mechanism for the decrease in stiffness of bioprosthetic heart valve tissues after cross-linking. Vesely I.
ASAIO J 1996 Nov-Dec;42(6):993-9

Effect of applied uniaxial stress on rate and mechanical effects of cross-linking in tissue-derived biomaterials. Chachra D, et al. **Biomaterials** 1996 Oct;17(19):1865-75

Dynamic glutaraldehyde fixation of a porcine aortic valve xenograft. I. Effect of fixation conditions on the final tissue viscoelastic properties. Duncan AC, et al. **Biomaterials** 1996 Oct;17(19):1849-56

New polyurethane heart valve prosthesis: design, manufacture and evaluation. Mackay TG, et al.
Biomaterials 1996 Oct;17(19):1857-63

A new polymer valve for mechanical circulatory support systems. Suh SW, et al. **Int J Artif Organs** 1996 Dec; 19(12):712-8

Characterization of the resistance of pyrolytic carbon to abrasive wear. Vitale E, et al. **Int J Artif Organs** 1995 Dec; 18(12):777-85

Stress corrosion in prosthetic heart valves [letter; comment] Williams DF. **Int J Artif Organs** 1997 Mar;20(3):186-7. Comment on: Int J Artif Organs 1996 Aug;19(8):477-86.

Stress corrosion cracking in Björk-Shiley convexo-concave prosthetic heart valves due to random in vivo electrochemical pulsing [see comments] Xiao K, et al.
Int J Artif Organs 1996 Aug;19(8):477-86 (33 ref.). Comment in: Int J Artif Organs 1997 Mar;20(3):186-7.

Directions for improvement of substitute heart valves: National Heart, Lung, and Blood Institute's Working Group report on heart valves. Edmunds LH Jr, et al.
J Biomed Mater Res 1997 Fall;38(3):263-6

Discrepancies between labeled and actual dimensions of prosthetic valves and sizers. Cochran RP, et al.
J Card Surg 1996 Sep-Oct;11(5):318-24; discussion 325

Wear assessment in bileaflet heart valves. Arru P, et al.
J Heart Valve Dis 1996 Jun;5 Suppl 1:S133-43; discussion 144-8 (26 ref.)

A statistical approach to the quantitative comparison of pulsatile flow in vitro data of prosthetic heart valve testing. Barbaro V, et al. **J Heart Valve Dis** 1997 Jan;6(1):93-100

Pitfalls and outcomes from accelerated wear testing of mechanical heart valves. Campbell A, et al.
J Heart Valve Dis 1996 Jun;5 Suppl 1:S124-32; discussion 144-8

Mechanical performance of pyrolytic carbon in prosthetic heart valve applications. Cao H. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S32-49 (58 ref.)

Quality control of bioprosthetic heart valves by means of holographic interferometry. Deiwick M, et al.
J Heart Valve Dis 1996 Jul;5(4):441-7; discussion 439-40

Mechanical cardiac valve prostheses: wear characteristics and magnitudes in three bileaflet valves. Elizondo DR, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S115-23; discussion 144-8

Finite element analysis of indentation tests on pyrolytic carbon. Gilpin CB, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S72-8

Effect of repetitive impact on the mechanical strength of pyrolytic carbon. Kepner J, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S50-8

An initial investigation into the wear and damage within the pivots of three types of bileaflet mechanical heart valves. King MJ, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S111-4; discussion 144-8

Material properties, biocompatibility, and wear resistance of the Medtronic pyrolytic carbon. Leuer LH, et al.
J Heart Valve Dis 1996 Jun;5 Suppl 1:S105-9; discussion 110

Fatigue of isotropic pyrolytic carbon used in mechanical heart valves. Ma L, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S59-64

Wear in mechanical heart valves symposium, Aarhus, 1995 [editorial] Paulsen PK, et al. **J Heart Valve Dis** 1996 Jun; 5 Suppl 1:S2

In vitro testing of heart valve wear outside of the manufacturers laboratory--requirements and controversies. Reul H, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S97-103; discussion 103-4

Structural failure of pyrolytic carbon heart valves. Richard G, et al. **J Heart Valve Dis** 1996 Jun;5 Suppl 1:S79-85 (11 ref.)

Fatigue and fracture of pyrolytic carbon: a damage- tolerant approach to structural integrity and life prediction in "ceramic" heart valve prostheses. Ritchie RO.
J Heart Valve Dis 1996 Jun;5 Suppl 1:S9-31 (60 ref.)

Structural integrity assessment of heart valve prostheses: a damage tolerance analysis of the CarboMedics Prosthetic Heart Valve. Ryder JK, et al. **J Heart Valve Dis** 1996 Jun; 5 Suppl 1:S86-96 (32 ref.)

A cardiac surgeon's perspective. Taylor KM.
J Heart Valve Dis 1996 Jun;5 Suppl 1:S7-8 (0 ref.)

Shop order fracture rate as a risk factor for strut fracture in Björk-Shiley CC60 degrees heart valves. Walker AM, et al. **J Heart Valve Dis** 1997 May;6(3):264-7; discussion 268

An engineer's perspective. Yoganathan AP.
J Heart Valve Dis 1996 Jun;5 Suppl 1:S3-6 (0 ref.)

In vitro determination of the curvatures and bending strains acting on the leaflets of polyurethane trileaflet heart valves during leaflet motion. Corden J, et al.
Proc Inst Mech Eng [H] 1995;209(4):243-53

[European standards for cardiovascular implants] Hasenkam JM, et al. **Ugeskr Laeger** 1997 Jul 14;159(29):4497-501 **(Dan)**

STATISTICS & NUMERICAL DATA

Censored lifetime data in adaptive neural networks. Katz AS, et al. **J Heart Valve Dis** 1996 Jan;5(1):84-9

Numerical study of squeeze-flow in tilting disc mechanical heart valves. Makhijani VB, et al. **J Heart Valve Dis** 1996 Jan;5(1):97-103

Utilization of the St. Jude Medical prosthesis in the aortic position. Emery RW, et al.
Semin Thorac Cardiovasc Surg 1996 Jul;8(3):231-6

HEART VALVES

Banking cryopreserved heart valves in Europe: assessment of a 5-year operation in an international tissue bank in Brussels. Goffin Y, et al. **Eur J Cardiothorac Surg** 1996; 10(7):505-12

[Questionnaire of cryopreserved allograft valves in Kyushu and Yamaguchi area] Tokunaga S, et al. **Kyobu Geka** 1996 Dec;49(13):1063-8 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Valve repair and replacement in children [see comments] Lewis DA, et al. **Curr Opin Cardiol** 1997 Jan;12(1):63-9 (37 ref.). Comment in: Curr Opin Cardiol 1997 Jan;12(1):41-3.

Persistent right sinus venosus valve producing right ventricular outflow tract obstruction. Heydarian M, et al.
Pediatr Cardiol 1997 Mar-Apr;18(2):133-5

Spontaneous and induced alterations in the cardiac membranous ventricular septum of fetal, weanling, and adult rats. Solomon HM, et al. **Teratology** 1997 Mar; 55(3):185-94

ANATOMY & HISTOLOGY

Anatomy and development of the sinoatrial valves in the dogfish (Scyliorhinus canicula). Gallego A, et al.
Anat Rec 1997 Jun;248(2):224-32

Naming the cardiac valves and their component parts [editorial] Anderson RH. **J Heart Valve Dis** 1997 Mar; 6(2):103-4

Cine MR Fourier velocimetry of blood flow through cardiac valves: comparison with Doppler echocardiography. Mohiaddin RH, et al. **J Magn Reson Imaging** 1997 Jul-Aug; 7(4):657-63

[Normal values of valvular annular areas. Comparison of the results of a necropsy and an echocardiographic series] Evangelista A, et al. **Rev Esp Cardiol** 1996 Feb;49(2):111-6 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Type VI collagen in the cardiac valves and connective tissue septa during heart development. Kitten GT, et al.
Braz J Med Biol Res 1996 Sep;29(9):1189-93

Fibroblast growth factor-2 stimulates embryonic cardiac mesenchymal cell proliferation. Choy M, et al.
Dev Dyn 1996 Jun;206(2):193-200

CYTOLOGY

The use of flow cytometry for the investigation of viability of heart valve-derived fibroblasts. Wilczek P, et al.
Folia Histochem Cytobiol 1996;34 Suppl 1:41-2

EMBRYOLOGY

Spatial and temporal expression of the 72-kDa type IV collagenase (MMP-2) correlates with development and differentiation of valves in the embryonic avian heart. Alexander SM, et al. **Dev Dyn** 1997 Jul;209(3):261-8

Fibroblast growth factor-2 stimulates embryonic cardiac mesenchymal cell proliferation. Choy M, et al.
Dev Dyn 1996 Jun;206(2):193-200

ENZYMOLOGY

Spatial and temporal expression of the 72-kDa type IV collagenase (MMP-2) correlates with development and differentiation of valves in the embryonic avian heart. Alexander SM, et al. **Dev Dyn** 1997 Jul;209(3):261-8

IMMUNOLOGY

Libman-Sacks endocarditis in the antiphospholipid syndrome: immunopathologic findings in deformed heart valves. Ziporen L, et al. **Lupus** 1996 Jun;5(3):196-205

INNERVATION

Innervation of human atrioventricular and arterial valves. Marron K, et al. **Circulation** 1996 Aug 1;94(3):368-75

METABOLISM

Valvular interstitial cells express angiotensinogen and cathepsin D, and generate angiotensin peptides. Katwa LC, et al. **Int J Biochem Cell Biol** 1996 Jul;28(7):807-21

Formaldehyde replaces glutaraldehyde in porcine bioprosthetic heart valves [see comments] McClurg WM, et al. **J Heart Valve Dis** 1996 May;5(3):343-7. Comment in: J Heart Valve Dis 1997 May;6(3):327-8.

HEART VALVES

[Histopathological study of valvular deposits of amyloid protein in cardiac amyloidosis] Hisaki R, et al. **J Cardiol** 1996;27 Suppl 2:31–7; discussion 38 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Streptococcus mutans major adhesion surface protein, P1 (I/II), does not contribute to attachment to valvular vegetations or to the development of endocarditis in a rat model. Ryd M, et al. **Arch Oral Biol** 1996 Oct; 41(10):999–1002

Microbiological cultures of heart valves and valve tags are not valuable for patients without infective endocarditis who are undergoing valve replacement. Giladi M, et al. **Clin Infect Dis** 1997 May;24(5):884–8

Native valve endocarditis due to Corynebacterium striatum [letter] Juurlink DN, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec;15(12):963–5 (12 ref.)

PATHOLOGY

The nature of the annular attachment of a common atrioventricular valve in hearts with isomeric atrial appendages. Uemura H, et al. **Eur J Cardiothorac Surg** 1996; 10(7):540–5

Model experimental system for investigation of heart valve calcification in vitro. Kapolos J, et al. **J Biomed Mater Res** 1997 Fall;38(3):183–90

Libman–Sacks endocarditis in the antiphospholipid syndrome: immunopathologic findings in deformed heart valves. Ziporen L, et al. **Lupus** 1996 Jun;5(3):196–205

Blood and serous cysts in the atrioventricular valves of the bovine heart. Marcato PS, et al. **Vet Pathol** 1996 Jan; 33(1):14–21

PHYSIOLOGY

XTT-colorimetric assay as a marker of viability in cryoprocessed cardiac valve. Lu JH, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1189–94

[Cryopreserved homograft cardiac valves: structural modifications brought about by the use of sterilization and cryopreservation methods] Porqueddu M, et al. **Cardiologia** 1997 Apr;42(4):351–7 (52 ref.) **(Ita)**

[Cellular viability and immune response in homologous cryopreserved cardiac valves] Pompilio G, et al. **Minerva Cardioangiol** 1997 May;45(5):235–44 (34 ref.) (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

Physiological valvular regurgitation in clinically normal young racehorses: prevalence and two-dimensional colour flow Doppler echocardiographic characteristics. Marr CM, et al. **Equine Vet J Suppl** 1995 Sep;(19):56–62

Evaluation of the proximal flow field to circular and noncircular orifices of different aspect ratios. Myers JG Jr, et al. **J Biomech Eng** 1997 Aug;119(3):349–56

RADIOGRAPHY

[Preoperative coronary angiography in valve patients. Criteria for indication in a determined population] Muñoz San José JC, et al. **Rev Esp Cardiol** 1997 Jul;50(7):467–73 (Eng. Abstr.) **(Spa)**

SURGERY

Coronary artery bypass and valve replacement in octogenarians. Ranger WR, et al. **Am Surg** 1996 Nov; 62(11):941–6

Stroke associated with cardiac surgery. Determinants, timing, and stroke subtypes. Libman RB, et al. **Arch Neurol** 1997 Jan;54(1):83–7

Outcome of reoperative valve surgery via right thoracotomy. Steimle CN, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II126–8

Valve surgery combined with coronary artery operation: is the use of internal mammary artery a predictor for early complications? [see comments] Bauer EP, et al. **Eur J Cardiothorac Surg** 1996;10(4):248–52. Comment in: Eur J Cardiothorac Surg 1997 May;11(3):594–5.

Repair of the left AV valve in atrioventricular septal defect in adults. Yilmaz AT, et al. **J Card Surg** 1996 Sep–Oct; 11(5):363–7

Blood conservation in small adults undergoing valve surgery. Tempe D, et al. **J Cardiothorac Vasc Anesth** 1996 Jun; 10(4):502–6

Shed mediastinal blood in 500 elective cardiac surgery patients: is there enough for retransfusion routinely? Schirmer U, et al. **J Cardiovasc Surg (Torino)** 1997 Feb; 38(1):45–50

Feasibility evaluation of a new pericardial bioprosthesis with dye mediated photo-oxidized bovine pericardial tissue. Bianco RW, et al. **J Heart Valve Dis** 1996 May;5(3):317–22

Mechanical valve replacement in congenital heart disease [see comments] Fiane AE, et al. **J Heart Valve Dis** 1996 May; 5(3):337–42. Comment in: J Heart Valve Dis 1996 Sep;5(5):570–1.

Is aprotinin indicated for reoperative valvular surgery? Goldstein DJ, et al. **J Heart Valve Dis** 1997 Jan;6(1):88–92

Minimal access valve surgery through superior partial sternotomy: a preliminary study. Konertz W, et al. **J Heart Valve Dis** 1996 Nov;5(6):638–40

Aprotinin in primary valve replacement and reconstruction: a multicenter, double-blind, placebo-controlled trial. D'Ambra MN, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):1081–9

Efficacy and safety of aprotinin in aortocoronary bypass and valve replacement operations: a placebo-controlled randomized double-blind study. Rodrigus IE, et al. **Perfusion** 1996 Jul;11(4):313–8

Double-homograft repair of truncus arteriosus with severe truncal valve dysfunction. Conte S, et al. **Scand Cardiovasc J** 1997;31(4):245–7

Valve repair in infective endocarditis. Lukács L, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):326–30

[Selection of surgical procedures in heart valve diseases based on follow-up results: comparative evaluation of valve replacement and valvoplasty] Kitamura M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):406–7 **(Jpn)**

[Valve replacement and valvoplasty in combined valvular diseases] Noji S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Mar;45(3):407–10 **(Jpn)**

[Preoperative coronary angiography in valve patients. Criteria for indication in a determined population] Muñoz San José JC, et al. **Rev Esp Cardiol** 1997 Jul;50(7):467–73 (Eng. Abstr.) **(Spa)**

TRANSPLANTATION

Donor valves as substitutes for heart valve replacement. Ketheesan N, et al. **Ceylon Med J** 1997 Jun;42(2):85–90

Advances in surgical treatment of acquired valve disease [published erratum appears in Curr Opin Cardiol 1996 Jul;11(4):454] Antunes MJ, et al. **Curr Opin Cardiol** 1996 Mar;11(2):139–54 (111 ref.)

Replacement of right ventricle to pulmonary artery and right atrium to right ventricle homograft after a modified Rastelli operation. Amirghofran AA, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):588–90

Donor-specific anti-human leukocyte antigen class I antibodies after implantation of cardiac valve allografts. Hoekstra F, et al. **J Heart Lung Transplant** 1997 May; 16(5):570–2

Homograft replacement of the atrioventricular valves [see comments] Robicsek F. **J Heart Valve Dis** 1996 Nov; 5(6):607–22 (66 ref.). Comment in: J Heart Valve Dis 1997 May;6(3):329.

Late bioprosthetic valve endocarditis caused by Phialemonium aff. curvatum and Streptococcus sanguis: a case report. Schønheyder HC, et al. **J Med Vet Mycol** 1996 Jun–Jul;34(3):209–14

HLA antibodies specific for cryopreserved heart valve "homografts" in children. den Hamer I, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):417–9

Cryopreserved homograft monocusp valves for reconstruction of the right ventricular outflow tract [letter; comment] Vogt PR, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):423. Comment on: J Thorac Cardiovasc Surg 1996 Jul;112(1):33–7.

Heart valve donation from living donors: an underestimated resource? Schütt GR, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):989–90

[Harvesting the heart for preparation of heart valve allografts] Spatenka J, et al. **Rozhl Chir** 1997 Mar; 76(3):113–7 (Eng. Abstr.) **(Cze)**

[Preparation, storage, transportation and use of heart valves for allotransplantation] Spatenka J, et al. **Rozhl Chir** 1997 Mar;76(3):118–25 (Eng. Abstr.) **(Cze)**

[Valvular homografts] Bloch G, et al. **Chirurgie** 1997; 122(1):18–21 (24 ref.) (Eng. Abstr.) **(Fre)**

[Homograft in the therapy of cardiovascular diseases] Striffeler H, et al. **Schweiz Rundsch Med Prax** 1997 Mar 18;86(12):476–81 (Eng. Abstr.) **(Ger)**

[Cryopreserved homograft cardiac valves: structural modifications brought about by the use of sterilization and cryopreservation methods] Porqueddu M, et al. **Cardiologia** 1997 Apr;42(4):351–7 (52 ref.) **(Ita)**

ULTRASONOGRAPHY

Physiological valvular regurgitation in clinically normal young racehorses: prevalence and two-dimensional colour flow Doppler echocardiographic characteristics. Marr CM, et al. **Equine Vet J Suppl** 1995 Sep;(19):56–62

[Differential diagnosis of heart valves changes in patients with bacterial endocarditis] Korytnikov KI. **Klin Med (Mosk)** 1997;75(3):16–8 **(Rus)**

[Normal values of valvular annular areas. Comparison of the results of a necropsy and an echocardiographic series] Evangelista A, et al. **Rev Esp Cardiol** 1996 Feb;49(2):111–6 (Eng. Abstr.) **(Spa)**

HEART VENTRICLE

see related
VENTRICULAR FUNCTION
VENTRICULAR PRESSURE

Diagnostic criteria and management of subacute ventricular free wall rupture complicating acute myocardial infarction. Purcaro A, et al. **Am J Cardiol** 1997 Aug 15;80(4):397–405

Pathological case of the month. Arrhythmogenic right ventricular dysplasia. Arnold SR, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):743–4

Right outflow tract obstruction by a pedunculated neurofibroma: case report and literature review. Henderson W, et al. **Can J Cardiol** 1997 Apr;13(4):387–90 (17 ref.)

Left ventricular endoaneurysmorrhaphy: effect on left ventricular size, shape and function. Çiçek S, et al. **Cardiology** 1997 Jul–Aug;88(4):340–5

Delayed appearance of traumatic aorto-right ventricular fistula [letter; comment] Cheng TO. **Cathet Cardiovasc Diagn** 1995 Dec;36(4):375. Comment on: Cathet Cardiovasc Diagn 1995 Jun;35(2):136–8.

Human E2F-1 reactivates cell cycle progression in ventricular myocytes and represses cardiac gene transcription. Kirshenbaum LA, et al. **Dev Biol** 1996 Nov 1;179(2):402–11

Biventricular thrombus mimicking eosinophilic endomyocardial disease [letter] Koh TW, et al. **Eur Heart J** 1996 Nov;17(11):1770–1

Successful lysis of mobile right heart and pulmonary artery thrombi, diagnosis and monitoring by transoesophageal echocardiography [letter] [see comments] Lepper W, et al. **Eur Heart J** 1996 Oct;17(10):1603–4. Comment in: Eur Heart J 1997 Apr;18(4):697.

Left ventricular thrombus in acute myocardial infarction. van Dantzig JM, et al. **Eur Heart J** 1996 Nov;17(11):1640–5 (81 ref.)

Left ventricular myxoma presenting with constitutional symptoms and raised serum interleukin-6 both suppressed by naproxen [letter] Vaughan CJ, et al. **Eur Heart J** 1997 Apr;18(4):703

Images in cardio-thoracic surgery. Cardioscopic examination of left ventricular thrombus. Roth M, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):573

Learning-based ventricle detection from cardiac MR and CT images. Weng J, et al. **IEEE Trans Med Imaging** 1997 Aug; 16(4):378–91 (36 ref.)

Diverticulum of the left ventricle associated with subvalvar aortic stenosis. Fernández AL, et al. **Int J Cardiol** 1996 Oct 25;56(3):223–6

Intraventricular conduction disturbances. Kelkar PN, et al. **J Assoc Physicians India** 1996 Jun;44(6):402–6 (14 ref.)

Positive pressure inspiration differentially affects right and left ventricular outputs in postoperative cardiac surgery patients. van den Berg PC, et al. **J Crit Care** 1997 Jun; 12(2):56–65

Is the echocardiogram an appropriate ECG validity standard for the detection and change in left ventricular size? Crow RS, et al. **J Electrocardiol** 1996;29 Suppl:248–55

Improved ECG models for left ventricular mass adjusted for body size, with specific algorithms for normal conduction, bundle branch blocks, and old myocardial infarction. Rautaharju PM, et al. **J Electrocardiol** 1996;29 Suppl:261–9

Mitral homograft for tricuspid valve endocarditis complicating a congenital fistula between the right coronary artery and right ventricle. Hvass U, et al. **J Heart Valve Dis** 1996 Sep;5(5):564–6

Left ventricular rupture following mitral valve replacement [letter; comment] Robicsek F. **J Heart Valve Dis** 1996 Sep; 5(5):571. Comment on: J Heart Valve Dis 1996 Jan;5(1):10–15.

Fracture and migration of an Antheor vena cava filter [letter] Ferreiro C, et al. **J Vasc Interv Radiol** 1996 Jan–Feb; 7(1):149–50

An ominous complication of acute myocardial infarction. El-Omar MM, et al. **Postgrad Med J** 1996 May; 72(847):309–11

Left ventricular pseudoaneurysm after myocardial infarction. Usher BW. **Tenn Med** 1997 Apr;90(4):150–1

[Surgical correction of the ventricular geometry in post-infarction left ventricular aneurysms] Christenson JT, et al. **Arch Mal Coeur Vaiss** 1996 Dec;89(12):1627–32 (Eng. Abstr.) **(Fre)**

[Combination of true and false left ventricular aneurysm. Cine-MRI diagnosis] Darremont O, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1311–5 (Eng. Abstr.) **(Fre)**

[Estimation of left ventricular volumes and ejection fraction with acoustic quantification in myocardial infarction. Comparison with echocardiographic, angiographic and scintigraphic data] Jennesseaux C, et al. **Arch Mal Coeur Vaiss** 1996 Jul;89(7):843–9 (Eng. Abstr.) **(Fre)**

[Giant aneurysm of the interventricular septum. Value of imaging techniques] Revel F, et al. **Arch Mal Coeur Vaiss** 1997 Feb;90(2):285–9 (Eng. Abstr.) **(Fre)**

[Accidental insertion of a temporary pacemaker electrode in the left ventricle: radiological and electrocardiographic diagnosis] Rickenbacher P, et al. **Schweiz Med Wochenschr** 1996 Oct 5;126(40):1688–92 (Eng. Abstr.) **(Ger)**

[Morphological aspects, evolution and prognostic factors in pulmonary atresia with intact ventricular septum. Review of the literature and update] Maia MM, et al. **Arq Bras Cardiol** 1996 May;66(5):299–303 (89 ref.) **(Por)**

[Endomyocardial fibrosis with massive biventricular endocardial calcification] Morrone LF, et al. **Arq Bras Cardiol** 1996 Aug;67(2):103–5 (Eng. Abstr.) **(Por)**

[Surgical treatment of postinfarction left ventricular aneurysm] Mikheev AA, et al. **Klin Med (Mosk)** 1997;

75(8):27–30 (Eng. Abstr.) **(Rus)**

[Rupture of the posterior wall of the left ventricle after mitral valve prosthesis] Dobrotin SS, et al. **Vestn Khir Im I I Grek** 1997;156(2):112–5 (Eng. Abstr.) **(Rus)**

[Right ventricular thrombosis and pulmonary thrombosis associated with venous-peritoneal diversion (Le Veen). Diagnosis with transesophageal echocardiography] Gil Suay V, et al. **Arch Bronconeumol** 1996 Jan;32(1):40–2 (Eng. Abstr.) **(Spa)**

ABNORMALITIES

Epidural anesthesia for emergency caesarean section in a patient with single ventricle and aortic stenosis. Peng TC, et al. **Acta Anaesthesiol Sin** 1997 Mar;35(1):39–44

Truncus arteriosus with a single left ventricle: case report of a previously unrecognized entity. Paris YM, et al. **Am Heart J** 1997 Mar;133(3):377–80

An echocardiographic study comparing male Swedish elite orienteers with other elite endurance athletes. Henriksen E, et al. **Am J Cardiol** 1997 Feb 15;79(4):521–4

Familial incidence of late ventricular potentials and electrocardiographic abnormalities in arrhythmogenic right ventricular dysplasia. Hermida JS, et al. **Am J Cardiol** 1997 May 15;79(10):1375–80

Sudden death of a young person: Uhl's disease versus arrhythmogenic right ventricular dysplasia [letter] Misselbeck WJ, et al. **Am J Emerg Med** 1996 Mar; 14(2):234–5

Left and right ventricular dysplasia and Uhl's anomaly. A case report. Sutter A, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):141–5

Bidirectional cavopulmonary shunt in patients with anomalies of systemic and pulmonary venous drainage. McElhinney DB, et al. **Ann Thorac Surg** 1997 Jun;63(6):1676–84

Intraatrial baffle repair of isolated ventricular inversion with left atrial isomerism. McElhinney DB, et al. **Ann Thorac Surg** 1996 Nov;62(5):1529–32 (12 ref.)

Configuration of linear dynamic cardiomyoplasty for hypoplastic right ventricle. Morita K, et al. **Ann Thorac Surg** 1997 Mar;63(3):676–82

Aprotinin improves outcome of single-ventricle palliation. Tweddell JS, et al. **Ann Thorac Surg** 1996 Nov; 62(5):1329–35; discussion 1335–6

Patch augmentation of regurgitant common atrioventricular valve in univentricular physiology. van Son JA, et al. **Ann Thorac Surg** 1997 Aug;64(2):508–10

Three major coronary artery-to-left ventricular shunts: report of three cases and review of literature. Nawa S, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):300–4 (31 ref.)

Echocardiography of the right ventricle-to-pulmonary artery homograft conduit of patients with transposition of the great arteries or double outlet right ventricle undergoing the Rastelli procedure. Yüan SM, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jun; 59(6):359–66

Abnormal myocardial development [letter] Fontaine G, et al. **Circulation** 1997 Jan 7;95(1):278–9

Unusual type of brachydactyly associated with intraventricular septal defect and deafness: a new condition? Camera G, et al. **Clin Dysmorphol** 1997 Jan; 6(1):31–3

Patient selection for repair of complete atrioventricular canal guided by echocardiography. Santoro G, et al. **Eur J Cardiothorac Surg** 1996;10(6):439–42

Intracardiac repair of lesions associated with atrioventricular discordance. Szufladowicz M, et al. **Eur J Cardiothorac Surg** 1996;10(6):443–8

Acute aortic outflow obstruction by diminution of bulboventricular foramen size after volume unloading in univentricular physiology. Van Son JA, et al. **Eur J Cardiothorac Surg** 1996;10(9):809–11

An alternative method for repair of aortico-left ventricular tunnel associated with severe aortic stenosis presenting in a newborn. Weldner P, et al. **Eur J Cardiothorac Surg** 1996; 10(5):380–2

Double outlet right ventricle with unprotected pulmonary vasculature presenting in a woman of 65. Dickinson C, et al. **Heart** 1996 Aug;76(2):187

Left ventricular non-compaction in a patient with becker's muscular dystrophy. Stöllberger C, et al. **Heart** 1996 Oct; 76(4):380

Cardiorespiratory responses to exercise after repair of the univentricular heart. Ohuchi H, et al. **Int J Cardiol** 1997 Jan 3;58(1):17–30

Holmes heart in the adult: transesophageal echocardiographic findings and long-term natural survival. Vitarelli A, et al. **Int J Cardiol** 1996 Oct 25;56(3):301–5

Rare variants of divided right ventricle with sequestered apical trabecular component. Yoo SJ, et al. **Int J Cardiol** 1997 Aug 8;60(3):249–55

Hemodynamic effects of epinephrine, bicarbonate and calcium in the early postnatal period in a lamb model of single-ventricle physiology created in utero. Reddy VM, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1877–83

Transesophageal echocardiographic image of double-chambered right ventricle. Chang RY, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):347–52

Double-chambered right ventricle: echocardiographic features. Galiuto L, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):300–5

Cantrell's syndrome in an infant. Chen LJ, et al. **J Formos Med Assoc** 1997 Apr;96(4):288–90

Animal model of the univentricular heart and single ventricular physiology. Randsbaek F, et al. **J Invest Surg** 1996 Sep–Oct;9(5):375–84

Abnormal morphological patterns of the left ventricular myocardium in the critical stenosis of the aortic valve and the intact ventricular septum. Kim SH, et al. **J Korean Med Sci** 1997 Feb;12(1):49–54

MR appearance of isolated noncompaction of the left ventricle. Hany TF, et al. **J Magn Reson Imaging** 1997 Mar–Apr;7(2):437–8

The single ventricle heart in the fetus: accuracy of prenatal diagnosis and outcome. Rychik J, et al. **J Perinatol** 1997 May–Jun;17(3):183–8

Right heart bypass with an extracardiac conduit for functionally single ventricle with anomalous pulmonary venous connection to the right atrium. Roberts CS, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):297–8

Development of significant left and right ventricular hypoplasia in the second and third trimester fetus. Hornberger LK, et al. **J Ultrasound Med** 1996 Sep; 15(9):655–9

Isolated noncompaction of the myocardium in adults. Ritter M, et al. **Mayo Clin Proc** 1997 Jan;72(1):26–31

Angiographic determination of ventricular morphology: correlation with pathology in 36 hearts with single functional ventricles. Julsrud PR, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):208–12

Noonan syndrome with double-chambered right ventricle. Ozkutlu S, et al. **Pediatr Cardiol** 1996 Jul–Aug;17(4):251–3

Lung perfusion patterns after bidirectional cavopulmonary anastomosis (Hemi-Fontan procedure). Seliem MA, et al. **Pediatr Cardiol** 1997 May–Jun;18(3):191–6

Isolated congenital left ventricular diverticulum. Wu JM, et al. **Pediatr Cardiol** 1996 Jul–Aug;17(4):254–6

An unusual variation of left ventricular-right atrial communication. Komai H, et al. **Surg Today** 1996; 26(10):825–7

Spontaneous and induced alterations in the cardiac membranous ventricular septum of fetal, weanling, and adult rats. Solomon HM, et al. **Teratology** 1997 Mar; 55(3):185–94

Prenatal diagnosis of ventriculo-coronary communications in a second-trimester fetus using transvaginal and transabdominal color Doppler sonography. Chaoui R, et al. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):194–7

[Aortic-ventricular tunnel with right coronary artery atresia] Rauzier JM, et al. **Arch Mal Coeur Vaiss** 1997 May; 90(5):725–7 (Eng. Abstr.) **(Fre)**

[Coronary artery-cardiac fistulas. Review of the literature. Two accidentally discovered cases] Jazra C, et al. **J Med Liban** 1995;43(3):162–5 (25 ref.) (Eng. Abstr.) **(Fre)**

[Hypoplasia of the left heart ventricle—casuistic contribution to the development of this heart malformation] Thiel W. **DTW Dtsch Tierarztl Wochenschr** 1997 Apr;104(4):127–31 (Eng. Abstr.) **(Ger)**

[Atresia of the left-sided atrioventricular connection with single ventricle and transposition of great vessels in a adult patients] Kaemmerer H, et al. **Z Kardiol** 1996 Jul; 85(7):469–76 (Eng. Abstr.) **(Ger)**

[Total cavopulmonary anastomosis for definitive palliation of complex univentricular cardiovascular systems—potential preoperative risk factors] Kaulitz R, et al. **Z Kardiol** 1997 Jan;86(1):20–5 (Eng. Abstr.) **(Ger)**

[Total cavo-pulmonary anastomosis in heart surgery for the correction of univentricular heart] Hartyánszky I, et al. **Orv Hetil** 1996 Dec 29;137(52):2923–5 (Eng. Abstr.) **(Hun)**

[Double-chamber right ventricle: a case report] Monte I, et al. **Cardiologia** 1997 Jul;42(7):751–6 (Eng. Abstr.) **(Ita)**

[Left ventricular lesions in arrhythmogenic right ventricular dysplasia and 12-lead electrocardiographic findings] Wada Y, et al. **J Cardiol** 1996 Dec;28(6):337–44 (Eng. Abstr.) **(Jpn)**

[Appropriate early open heart palliation of univentricular atrioventricular connection with subaortic stenosis] Yamagishi M, et al. **Kyobu Geka** 1997 Jun;50(6):437–43; discussion 443–6 (Eng. Abstr.) **(Jpn)**

[Evaluation of total cavopulmonary shunt operation from late results] Matsuda H, et al. **Rinsho Kyobu Geka** 1989 Apr; 9(2):138–41 (Eng. Abstr.) **(Jpn)**

[Coronary artery to ventricular communication] Endo S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):817–20 (20 ref.) **(Jpn)**

[Double-chambered right ventricle] Fukushige J. **Ryoikibetsu Shokogun Shirizu** 1996;(13):52–4 (9 ref.) **(Jpn)**

[Congenital coronary ventricular fistula] Kato H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):837–9 (14 ref.) **(Jpn)**

[Congenital left ventricular diverticulum] Katoh J, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):175–7 (18 ref.) **(Jpn)**

[Ventricular inversion] Matsuoka Y. **Ryoikibetsu Shokogun Shirizu** 1996;(13):146–8 (7 ref.) **(Jpn)**

[Right ventricular dysplasia] Nagoshi H. **Ryoikibetsu Shokogun Shirizu** 1996;(13):40–4 (20 ref.) **(Jpn)**

[Uhl's anomaly] Nagoshi H. **Ryoikibetsu Shokogun Shirizu** 1996;(13):45–7 (11 ref.) **(Jpn)**

[Primary right ventricular hypoplasia] Nagoshi H. **Ryoikibetsu Shokogun Shirizu** 1996;(13):85–6 (11 ref.) **(Jpn)**

[Arrhythmogenic right ventricular dysplasia] Nagoshi H. **Ryoikibetsu Shokogun Shirizu** 1996;(13):94–7 (30 ref.) **(Jpn)**

[Single ventricle (type A, B, C, D)] Oba O. **Ryoikibetsu Shokogun Shirizu** 1996;(13):280–3 (18 ref.) **(Jpn)**

[Aortico-left ventricular tunnel] Saito A. **Ryoikibetsu Shokogun Shirizu** 1996;(13):249–51 (20 ref.) **(Jpn)**

[Valsalva fistula] Sugama M. **Ryoikibetsu Shokogun Shirizu** 1996;(13):326 (8 ref.) **(Jpn)**

[Left ventricular-right atrial communication] Takagi C, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):101–4 (20 ref.) **(Jpn)**

[Intraventricular right ventricular obstruction] Takenaka T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):48–51 (21 ref.) **(Jpn)**

[Congenital isolated hypoplasia of the right ventricle] Amaral FT, et al. **Arq Bras Cardiol** 1996 May;66(5):277–9 (Eng. Abstr.) **(Por)**

[The surgical procedure in an anomalous muscular bundle of the right ventricle combined with an interventricular heart septal defect] Lazarev SM. **Vestn Khir Im I I Grek** 1996;(1):21–5 (Eng. Abstr.) **(Rus)**

[Aortico-left ventricular tunnel associated with pulmonary valve stenosis] Martín Jiménez J, et al. **Rev Esp Cardiol** 1996 Dec;49(12):921–4 (9 ref.) (Eng. Abstr.) **(Spa)**

ANATOMY & HISTOLOGY

Lack of independent relationships between left ventricular mass and cardiovascular reactivity to physical and psychological stress in the Coronary Artery Risk Development in Young Adults (CARDIA) Study [see comments] Markovitz JH, et al. **Am J Hypertens** 1996 Sep; 9(9):915–23. Comment in: Am J Hypertens 1996 Sep;9(9):941–2.

24 h blood pressure profile affects the left ventricle independently of the pressure level. A study in untreated essential hypertension diagnosed by office blood pressure readings. Zakopoulos N, et al. **Am J Hypertens** 1997 Feb; 10(2):168–74

Effect of reperfusion on ventricular mass, topography, and function during healing of anterior infarction. Jugdutt BI. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1205–11

The morphologic consequences of systemic training. Shapiro LM. **Cardiol Clin** 1997 Aug;15(3):373–9 (34 ref.)

Fusion of short-axis and long-axis cardiac MR images. Goshtasby AA, et al. **Comput Med Imaging Graph** 1996 Mar–Apr;20(2):77–87

Assessment of baroreceptor-cardiac reflex sensitivity using time domain analysis in patients with IDDM and the relation to left ventricular mass index. Weston PJ, et al. **Diabetologia** 1996 Nov;39(11):1385–91

Accuracy of formulae for calculating left ventricular volumes of the equine heart. Lord PF, et al. **Equine Vet J Suppl** 1990 Jun;(9):53–6

Tracking geometrical descriptors on 3-D deformable surfaces: application to the left-ventricular surface of the heart. Clarysse P, et al. **IEEE Trans Med Imaging** 1997 Aug;16(4):392–404

Left ventricular myocardial tagging. Rademakers FE, et al. **Int J Card Imaging** 1997 Jun;13(3):233–45

Left ventricular regression equations from single plane cine and digital X-ray ventriculograms revisited. Reiber JH, et al. **Int J Card Imaging** 1996 Jun;12(2):69–78

Assessment of left ventricular dimensions and functions in athletes and sedentary subjects at rest and during exercise using echocardiography, Doppler sonography and radionuclide ventriculography. Huonker M, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S173–9 (64 ref.)

Sports-specific adaptation of left ventricular muscle mass in athlete's heart. I. An echocardiographic study with combined isometric and dynamic exercise trained athletes (male and female rowers). Urhausen A, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S145–51

Sports-specific adaptation of left ventricular muscle mass in athlete's heart. II: An echocardiographic study with 400-m runners and soccer players. Urhausen A, et al. **Int J Sports Med** 1996 Nov;17 Suppl 3:S152–6

Freehand three-dimensional echocardiography for measurement of left ventricular mass: in vivo anatomic validation using explanted human hearts. Gopal AS, et al. **J Am Coll Cardiol** 1997 Sep;30(3):802–10

Demonstration of the relationship between heart dimensions and QRS voltage amplitude [see comments] Castini D, et al. **J Electrocardiol** 1996 Jul;29(3):169–73. Comment in: J Electrocardiol 1996 Jul;29(3):175–7.

Improved reproducibility in measuring LV volumes and mass using multicoil breath-hold cine MR imaging. Sakuma H, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):124–7

Papillary muscle-left ventricular wall "complex". Komeda M, et al. **J Thorac Cardiovasc Surg** 1997 Feb; 113(2):292–300; discussion 300–1

The heart of the senior oarsman: an echocardiographic evaluation. Gustafsson F, et al. **Med Sci Sports Exerc** 1996 Aug;28(8):1045–8

Physiologic estradiol replacement therapy and cardiac

structure and function in normal postmenopausal women: a randomized, double-blind, placebo-controlled, crossover trial. Snabes MC, et al. **Obstet Gynecol** 1997 Mar; 89(3):332-9

Atrioventricular septal defect: quantitative anatomy of the left ventricle. Alvarez L, et al. **Pediatr Cardiol** 1996 Mar-Apr;17(2):97-103

Structure and function of myocardial fibrillar collagen. Caulfield JB, et al. **Technol Health Care** 1997 Apr; 5(1-2):95-113

The heart muscle's putative "secondary structure'. Functional implications of a band-like anisotropy. Lunkenheimer PP, et al. **Technol Health Care** 1997 Apr;5(1-2):53-64 (53 ref.)

The heart's fibre alignment assessed by comparing two digitizing systems. Methodological investigation into the inclination angle towards wall thickness. Lunkenheimer PP, et al. **Technol Health Care** 1997 Apr;5(1-2):65-77

Differentiation of intramyocardial fluid pressure from fiber stress. Rabbany SY, et al. **Technol Health Care** 1997 Apr; 5(1-2):145-57

The anisotropic structure of the human left and right ventricles. Schmid P, et al. **Technol Health Care** 1997 Apr; 5(1-2):29-43

A silicone rubber mould of the heart. Torrent-Guasp FF, et al. **Technol Health Care** 1997 Apr;5(1-2):13-20

[Trends for left ventricular echocardiographic findings and their related factors--a ten-year follow-up study in rural and urban Japanese populations] Kiyama M. **Nippon Koshu Eisei Zasshi** 1997 Jan;44(1):12-21 (Eng. Abstr.) **(Jpn)**

[Prevalence of hypertensive response to exercise in a group of healthy young male athletes. Relationship with left ventricular mass and prospective clinical implications] Longás Tejero MA, et al. **Rev Esp Cardiol** 1996 Feb; 49(2):104-10 (Eng. Abstr.) **(Spa)**

[Coronary perfusion: classification based on the type and relative extension of coronary irrigation. Morphologic determinants] Reig J, et al. **Rev Esp Cardiol** 1996 Sep; 49(9):675-81 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Differential changes in sympathetic activity in left and right ventricles in congestive heart failure after myocardial infarction. Ganguly PK, et al. **Am Heart J** 1997 Mar; 133(3):340-5

Effects of class III antiarrhythmic drugs on the Na(+)-activated K+ channels in guinea-pig ventricular cells. Mori K, et al. **Br J Pharmacol** 1996 Sep;119(1):133-41

Changes in the proportion of types I and III collagen in the left ventricular wall of patients with post-irradiative pericarditis. Chello M, et al. **Cardiovasc Surg** 1996 Apr; 4(2):222-6

Myosin isoforms and their light chains from the ventricular muscle of the urodelan amphibian Pleurodeles waltlii: comparison with myosin from skeletal muscles. Launay T, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jul;114(3):257-60

Quantitation of diltiazem in human cardiac tissue using high-performance liquid chromatography. Läer S, et al. **J Chromatogr Sci** 1997 Mar;35(3):93-6

The origin of increased cytoplasmic calcium upon reversal of the Na+/Ca(2+)-exchanger in isolated rat ventricular myocytes. Baartscheer A, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1963-73

CYTOLOGY

Effects of class III antiarrhythmic drugs on the Na(+)-activated K+ channels in guinea-pig ventricular cells. Mori K, et al. **Br J Pharmacol** 1996 Sep;119(1):133-41

Electrophysiological properties of L-type Ca2+ currents in isolated adult mouse ventricular myocytes. Nascimento JH. **Braz J Med Biol Res** 1996 Oct;29(10):1397-405

T-type calcium current is expressed in dedifferentiated adult rat ventricular cells in primary culture. Fares N, et al. **C R Acad Sci III** 1996 Jul;319(7):569-76

Resting tension participates in the modulation of active tension in isolated guinea pig ventricular myocytes. Cazorla O, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1629-37

Optical methods to evaluate the contractile function of unloaded isolated cardiac myocytes. Delbridge LM, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):11-25 (68 ref.)

The role of Gi-proteins and beta-adrenoceptors in the age-related decline of contraction in guinea-pig ventricular myocytes. Ferrara N, et al. **J Mol Cell Cardiol** 1997 Feb; 29(2):439-48

Use of the MTT assay in adult ventricular cardiomyocytes to assess viability: effects of adenosine and potassium on cellular survival. Gomez LA, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1255-66

Electrophysiology of rabbit ventricular myocytes following sustained rapid ventricular pacing. Rozanski GJ, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):721-32

Effects of exogenous and endogenous nitric oxide on the contractile function of cultured chick embryo ventricular myocytes. Ungureanu-Longrois D, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):677-87

Retinoic acid accelerates embryonic stem cell-derived cardiac differentiation and enhances development of ventricular cardiomyocytes. Wobus AM, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1525-39

Proton inhibition of transient outward potassium current in rat ventricular myocytes. Xu Z, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):481-90

A simple method for preparation of cultured cardiac fibroblasts from adult human ventricular tissue. Agocha AE, et al. **Mol Cell Biochem** 1997 Jul;172(1-2):195-8

[Age-related features of cardiomyocyte ultrastructure of the effluent region of the right ventricle in patients with Fallot's tetralogy] Egorova IF, et al. **Arkh Patol** 1996 May-Jun;58(3):58-61 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Pharmacologic stress-induced regional myocardial blood flow heterogeneity and left ventricular wall thickening abnormality: comparison of intravenous adenosine with dipyridamole in a model of critical coronary stenosis. Ofili EO, et al. **Am Heart J** 1997 Jan;133(1):78-86

Treatment and post-treatment effects of alpha- versus beta-receptor blockers on left ventricular structure and function in essential hypertension. Schobel HP, et al. **Am Heart J** 1996 Nov;132(5):1004-9

Mechanoenergetics of the negative inotropism of isoflurane in the canine left ventricle. No O2 wasting effect. Nakayama Y, et al. **Anesthesiology** 1997 Jul;87(1):82-93

Evaluation of the regional responsivity to ryanodine of human myocardium from patients with idiopathic dilated cardiomyopathy and secondary cardiomyopathies. Padrini R, et al. **Basic Res Cardiol** 1996 Sep-Oct;91(5):361-6

2,3-Butanedione 2-monoxime (BDM) induces calcium release from canine cardiac sarcoplasmic reticulum. Phillips RM, et al. **Biochem Biophys Res Commun** 1996 Dec 4; 229(1):154-7

Molecular structure and antioxidant specificity of purpurogallin in three types of human cardiovascular cells. Wu TW, et al. **Biochem Pharmacol** 1996 Oct 11; 52(7):1073-80

Species-dependent differences in inotropic effects and phosphoinositide hydrolysis induced by endothelin-3 in mammalian ventricular myocardium. Yang HT, et al. **Br J Pharmacol** 1997 Apr;120(8):1497-504

Zidovudine therapy and left ventricular function and mass in human immunodeficiency virus-infected patients. Cardoso JS, et al. **Cardiology** 1997 Jan-Feb;88(1):26-8

EUK-8 a synthetic catalytic scavenger of reactive oxygen species protects isolated iron-overloaded rat heart from functional and structural damage induced by ischemia/reperfusion. Pucheu S, et al. **Cardiovasc Drugs Ther** 1996 Jul;10(3):331-9

Effects of KT-362, a sarcolemmal and intracellular calcium antagonist, on calcium transients of cultured neonatal rat ventricular cells: a comparison with gallopamil and ryanodine. Tatsukawa Y, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):667-75

Hypotonic-induced stretch counteracts the efficacy of the class III antiarrhythmic agent E-4031 in guinea pig myocytes. Groh WJ, et al. **Cardiovasc Res** 1996 Feb; 31(2):237-45

Characterization of adult human heart fibroblasts in culture: a comparative study of growth, proliferation and collagen production in human and rabbit cardiac fibroblasts and their response to transforming growth factor-beta1. Agocha A, et al. **Cell Tissue Res** 1997 Apr;288(1):87-93

Effects of veratridine on the action potentials and contractility of right and left ventricles from normo- and hypertensive rats. Nand V, et al. **Clin Exp Pharmacol Physiol** 1997 Aug;24(8):570-6

The prognostic value of predischarge quantitative two-dimensional echocardiographic measurements and the effects of early lisinopril treatment on left ventricular structure and function after acute myocardial infarction in the GISSI-3 Trial. Gruppo Italiano per lo Studio della Sopravvivenza nell'Infarto Miocardico. Nicolosi GL, et al. **Eur Heart J** 1996 Nov;17(11):1646-56

Dual effects of endothelin-1 on the L-type Ca2+ current in ventricular cardiomyocytes. Kelso E, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):351-5

Block of Na+ channel by bepridil in isolated guinea-pig ventricular myocytes. Sato N, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):373-9

Different regulation of myofilament Ca2+ sensitivity in beta-escin-skinned cardiac and vascular smooth muscles. Tomita F, et al. **Eur J Pharmacol** 1997 May 20; 326(2-3):157-62

Mechanism of L- and T-type Ca2+ channel blockade by flunarizine in ventricular myocytes of the guinea-pig. Tytgat J, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):189-97

Neurospecificity of phyto-bufadienolides is not related to differences in Na+/K+ pump inhibition. Van der Walt JJ, et al. **Eur J Pharmacol** 1997 Jun 25;329(2-3):201-11

Cyclic AMP levels in ventricular myocytes from noradrenaline-treated guinea-pigs. Wynne DG, et al. **Eur J Pharmacol** 1996 Aug 29;310(2-3):235-42

Inhibition by bertosamil of cardiac responses to pinacidil or Bay k 8644 in isolated dog atria and ventricles. Yonezawa T, et al. **Eur J Pharmacol** 1996 Aug 1;309(1):51-8

Angiotensin II activates programmed myocyte cell death in vitro. Cigola E, et al. **Exp Cell Res** 1997 Mar 15; 231(2):363-71

Sarcoplasmic reticulum Ca(2+)-pump dysfunction in rat cardiomyocytes briefly exposed to hydroxyl radicals. Morris TE, et al. **Free Radic Biol Med** 1997;22(1-2):37-47

Sematilide blocks the inward rectifier potassium channel in isolated guinea pig ventricular myocytes. Takai H, et al. **Gen Pharmacol** 1997 May;28(5):665-70

Nipradilol, a new beta-adrenergic blocker, reduces left ventricular remodeling following myocardial infarction in spontaneously hypertensive rats. Sonoki H, et al. **Heart Vessels** 1997;12(1):19-26

The effect of angiotensin II on myosin heavy chain expression in cultured myocardial cells. Shalitin N, et al. **In Vitro Cell Dev Biol Anim** 1996 Oct;32(9):573-8

Effects of the dihydropyridine calcium channel blocker amlodipine on ventricular and atrial protein synthesis in an aortic constriction model of hypertension and, following chronic treatment, in the left ventricle of SHR rats. Patel VB, et al. **Int J Cardiol** 1997 Feb;58(3):241-55

An essential myosin light chain peptide induces supramaximal stimulation of cardiac myofibrillar ATPase activity. Rarick HM, et al. **J Biol Chem** 1996 Oct 25;271(43):27039-43

Kinin-induced prolongation of action-potential duration in right ventricular muscle from rat: involvement of B1 and B2 receptors. Gouin L, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):337-43

Effect of adenosine on ventricular parasystole. Tomcsányi J, et al. **J Electrocardiol** 1996 Jan;29(1):61-3

Disparate effects of ACE-inhibitors and calcium antagonists on left ventricular structure and function in essential hypertension. Aepfelbacher FC, et al. **J Hum Hypertens** 1997 May;11(5):321-5

Long-term effects of losartan on blood pressure and left ventricular structure in essential hypertension. Himmelmann A, et al. **J Hum Hypertens** 1996 Nov; 10(11):729-34

Mechanisms of amiodarone-induced inhibition of Ca2+ current in isolated neonatal rabbit ventricular myocytes. Chen F, et al. **J Investig Med** 1996 Dec;44(9):583-9

The cardiac troponin C isoform and the length dependence of Ca2+ sensitivity of tension in myocardium. Akella AB, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):381-9

Analysis of the ionic basis for cocaine's biphasic effect on action potential duration in guinea-pig ventricular myocytes. Clarkson CW, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):667-78

[3H]dofetilide binding to cardiac myocytes: modulation by extracellular potassium. Duff HJ, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):183-91

Effects of calcium channel antagonists on Ca2+ transients in rat and canine cardiomyocytes. Hensley J, et al. **J Mol Cell Cardiol** 1997 Mar;29(3):1037-43

Protective effect of dextran sulfate and heparin on adult rat cardiomyocytes damaged by free radicals. Hiebert L, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):229-35

Procaine enhancement of the rapid cooling contracture and inhibition of the decay of potentiated state in rabbit papillary muscle. Komai H, et al. **J Mol Cell Cardiol** 1995 Dec;27(12):2543-50

Effects of chronic angiotensin-converting enzyme inhibition on left ventricular and myocyte structure and function during recovery from chronic rapid pacing. Melton DM, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):697-710

PDGF-AA, a potent mitogen for cardiac fibroblasts from adult rats. Simm A, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):357-68

Inhibition of nitric oxide synthase by L-NAME improves ventricular performance in streptozotocin-diabetic rats. Smith JM, et al. **J Mol Cell Cardiol** 1997 Sep; 29(9):2393-402

Endotoxin and cytokines induce direct cardiodepressive effects in mammalian cardiomyocytes via induction of nitric oxide synthase. Stein B, et al. **J Mol Cell Cardiol** 1996 Aug; 28(8):1631-9

Effects of cadmium and nisoldipine on the delayed rectifier potassium current in guinea pig ventricular myocytes. Daleau P, et al. **J Pharmacol Exp Ther** 1997 May; 281(2):826-33

Biphasic effects of intrapipette cyclic guanosine monophosphate on L-type calcium current and contraction of guinea pig ventricular myocytes. Shirayama T, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1274-81

alpha 1-adrenoceptor-mediated negative inotropy of adrenaline in rat myocardium. Kissling G, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):195-205

Novel chloride-dependent acid loader in the guinea-pig ventricular myocyte: part of a dual acid-loading mechanism. Sun B, et al. **J Physiol (Lond)** 1996 Aug 15; 495 (Pt 1):65-82

Rebound stimulation of the cAMP-regulated Cl- current by acetylcholine in guinea-pig ventricular myocytes. Zakharov SI, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):105-20

Effects of long-term oral administration of amiodarone on the ventricular repolarization of rabbit hearts. Iwata H, et al. **Jpn Circ J** 1996 Sep;60(9):662-72

2,3-Butanedione monoxime suppresses excitation-contraction coupling in the canine blood-perfused left ventricle. Takasago T, et al. **Jpn J Physiol** 1997 Apr;47(2):205-15

Lithium attenuates the effects of dynorphin A(1-13) on inositol 1,4,5-trisphosphate and intracellular Ca2+ in rat ventricular myocytes. Sheng JZ, et al. **Life Sci** 1996; 59(25-26):2181-6

A selective type V phosphodiesterase inhibitor, E4021, protects the development of right ventricular overload and medial thickening of pulmonary arteries in a rat model of pulmonary hypertension. Takahashi T, et al. **Life Sci** 1996; 59(23):PL 371-7

Effects of dopexamine hydrochloride on calcium channels in isolated guinea pig ventricular myocytes. Dun W, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul-Aug; 18(6):353-7

Effects of 17 beta-estradiol on early afterdepolarizations and L-type Ca2+ currents induced by endothelin-1 in guinea pig papillary muscles and ventricular myocytes. Liu B, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan-Feb; 19(1):19-25

Heteropodatoxins: peptides isolated from spider venom that block Kv4.2 potassium channels. Sanguinetti MC, et al. **Mol Pharmacol** 1997 Mar;51(3):491-8

Modulation of L-type Ca current by denopamine, a nonparenteral partial beta 1 stimulant, in rabbit ventricular cells. Habuchi Y, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 Oct; 354(4):437-43

The novel cardioprotective agent BMS-180448 activates a potassium conductance in cardiac and vascular smooth muscle. Lodge NJ, et al.
Naunyn Schmiedebergs Arch Pharmacol 1996 Oct; 354(4):444-51

Dexamethasone and stress upregulate Kv1.5 K+ channel gene expression in rat ventricular myocytes. Levitan ES, et al. **Neuropharmacology** 1996;35(7):1001-6

Physiologic estradiol replacement therapy and cardiac structure and function in normal postmenopausal women: a randomized, double-blind, placebo-controlled, crossover trial. Snabes MC, et al. **Obstet Gynecol** 1997 Mar; 89(3):332-9

Contribution of the sodium-calcium exchanger to contractions in immature rabbit ventricular myocytes. Chin TK, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):480-5

The peptide "FRCRCFa", dialysed intracellularly, inhibits the Na/Ca exchange in rabbit ventricular myocytes with high affinity. Hobai IA, et al. **Pflugers Arch** 1997 Feb; 433(4):455-63

Multiple effects of salicylaldoxime on rat cardiac action potentials. Chunlei H, et al. **Pharmacol Toxicol** 1995 Dec; 77(6):386-90

Developmental changes in beta-adrenergic and muscarinic modulations of Ca2+ currents in fetal and neonatal ventricular cardiomyocytes of the rat. Masuda H, et al. **Reprod Fertil Dev** 1996;8(1):129-35

Effects of calcium channel blockers on spontaneous electrical activity of freshly isolated three-day-old embryonic chick ventricle. Prakash P, et al. **Reprod Fertil Dev** 1996; 8(5):921-9

Excitatory actions of adenosine on ventricular automaticity. Hernández J, et al. **Trends Pharmacol Sci** 1996 Apr; 17(4):141-4 (39 ref.)

[Long-term effects of a selective alpha 1-adrenergic inhibitor on right and left ventricular masses in patients with chronic pulmonary disease] Nakamoto T, et al.
Nippon Kyobu Shikkan Gakkai Zasshi 1997 Jan;35(1):30-7 (Eng. Abstr.) **(Jpn)**

EMBRYOLOGY

False tendons in the left ventricle of the heart in humans during pre- and postnatal periods. Grzybiak M, et al.
Folia Morphol (Warsz) 1996;55(2):89-99

ENZYMOLOGY

Pattern of superoxide dismutase enzymatic activity and RNA changes in rat heart ventricles after myocardial infarction. Assem M, et al. **Am J Pathol** 1997 Aug;151(2):549-55

Do adult rat ventricular myocytes express protein kinase C-alpha? Rybin V, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2485-91

Carnitine palmitoyltransferase in patients with cardiac ischemia due to atherosclerotic coronary artery disease and in patients with idiopathic dilated cardiomyopathy. Maurer I, et al. **Cardiology** 1997 May-Jun;88(3):258-63

Effect of losartan on right ventricular hypertrophy and cardiac angiotensin I-converting enzyme activity in pulmonary hypertensive rats. Kreutz R, et al.
Clin Exp Hypertens 1996 Jan;18(1):101-11

Regulation of phospholipases C and D in rat ventricular myocytes: stimulation by endothelin-1, bradykinin and phenylephrine. Clerk A, et al. **J Mol Cell Cardiol** 1997 Jun;29(6):1593-604

Phorbol myristate acetate-induced hypertrophy of neonatal rat cardiac myocytes is associated with decreased sarcoplasmic reticulum Ca2+ ATPase (SERCA2) gene expression and calcium reuptake. Hartong R, et al.
J Mol Cell Cardiol 1996 Dec;28(12):2467-77

Dedifferentiated human ventricular cardiac myocytes express inducible nitric oxide synthase mRNA but not protein in response to IL-1, TNF, IFNgamma, and LPS. Luss H, et al. **J Mol Cell Cardiol** 1997 Apr;29(4):1153-65

Identification of changes in cardiac phospholipase C activity in congestive heart failure. Meij JT, et al.
J Mol Cell Cardiol 1997 Jan;29(1):237-46

Effects of aging on Na(+)-pump current in rat ventricular myocytes. Kennedy RH, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):59-66

GROWTH & DEVELOPMENT

Possibility of postnatal left ventricular growth in selected infants with non-apex-forming left ventricles. Minich LL, et al. **Am Heart J** 1997 May;133(5):570-4

Developmental changes in transient outward current in mouse ventricle. Wang L, et al. **Circ Res** 1997 Jul; 81(1):120-7

An estimate of the participation of the sarcoplasmic reticulum in the intracellular Ca2+ regulation in adult and newborn ferret hearts. Bonnet V, et al.
Comp Biochem Physiol A Physiol 1996 Dec;115(4):341-8

False tendons in the left ventricle of the heart in humans during pre- and postnatal periods. Grzybiak M, et al.
Folia Morphol (Warsz) 1996;55(2):89-99

Developmental changes of the ultrarapid delayed rectifier K+ current in rat ventricular myocytes. Guo W, et al.
Pflugers Arch 1997 Feb;433(4):442-5

INJURIES

Survival after left ventricular rupture following blunt chest injury. Weiner Y, et al. **Am J Emerg Med** 1996 Mar; 14(2):186-8

Delayed presentation and repair of isolated traumatic ventricular septal defect. Sarris GE, et al.
Ann Thorac Surg 1996 Oct;62(4):1194-6

Ventricular perforation associated with central venous introducer-dilator systems. Porter JM, et al.
Can J Anaesth 1997 Mar;44(3):317-20

Ventricular perforation following stenting of left anterior descending artery [letter] Kaul U, et al.
Cathet Cardiovasc Diagn 1997 Sep;42(1):109

Cardiac arrhythmia caused by a Kirschner wire inside the heart. An unusual complication of finger osteosynthesis. Haapaniemi TA, et al. **J Hand Surg [Br]** 1997 Jun; 22(3):402-4

False left ventricular aneurysm with ventriculo-bronchial fistula and massive haemoptysis. Camero LG, et al.
Scand Cardiovasc J 1997;31(2):117-9

Ventricular laceration and cardiac tamponade during laparoscopic Nissen fundoplication. Firoozmand E, et al.
Surg Laparosc Endosc 1996 Oct;6(5):394-7 (10 ref.)

[Heart injury following closed thoracic injury] Bourguignon N, et al. **Ann Fr Anesth Reanim** 1996;15(7):1088-9 (Eng. Abstr.) **(Fre)**

INNERVATION

Cardiovascular reflexes from ventricular and coronary receptors. Hainsworth R. **Adv Exp Med Biol** 1995; 381:157-74 (62 ref.)

Effects of cardiac denervation on development of heart failure and catecholamine desensitization. Sato N, et al.
Circulation 1997 Apr 15;95(8):2130-40

Autonomic nervous system imbalance and left ventricular systolic dysfunction as potential candidates for arrhythmogenesis in Becker muscular dystrophy. Ducceschi V, et al. **Int J Cardiol** 1997 May 23;59(3):275-9

Beta-adrenoceptor desensitization despite cardiac denervation in human failing transplanted myocardium. Reithmann C, et al. **Int J Cardiol** 1996 Sep;56(1):11-5

Electrophysiologic effects of sodium channel blockade on anisotropic conduction and conduction block in canine myocardium: preferential slowing of longitudinal conduction by flecainide versus disopyramide or lidocaine. Kondo T, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1639-44

METABOLISM

Cardiac beta receptors' density or affinity modified by different Trypanosoma cruzi amount. Fernández AR, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996; 46(2):139-43

Regulation of gene transcription of angiotensin II receptor subtypes in the heart. Matsubara H, et al.
Adv Exp Med Biol 1996;396:23-32

Stimulation of atrial natriuretic peptide release by neurokinins in neonatal rat ventricular cardiomyocytes. Church DJ, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H935-44

Effects of Mg2+ on Ca2+ waves and Ca2+ transients of rat ventricular myocytes. Terada H, et al.
Am J Physiol 1996 Mar;270(3 Pt 2):H907-14

Changes in calcium handling in atrophic heterotopically isotransplanted rat hearts. Kolář F, et al.
Basic Res Cardiol 1995 Nov-Dec;90(6):475-81

Subtype 2 and atypical angiotensin receptors in the human heart. Regitz-Zagrosek V, et al. **Basic Res Cardiol** 1996; 91 Suppl 2:73-7 (18 ref.)

Effects of volatile anesthetic isoflurane on ATP-sensitive K+ channels in rabbit ventricular myocytes. Han J, et al.
Biochem Biophys Res Commun 1996 Dec 24;229(3):852-6

Protein synthesis during regression of left ventricular hypertrophy with lisinopril in abdominal aortic constriction model of hypertension. Siddiq T, et al.
Biochem Mol Med 1996 Feb;57(1):19-24

Effects of anti-peptide antibodies against human M2 muscarinic receptors on the cAMP generating system in guinea pig ventricles. Wang WZ, et al.
Blood Press Suppl 1996;3:22-4

Immunocytochemical studies of M2 muscarinic receptors in guinea pig atria and ventricles using anti-peptide antibodies. Zhu L, et al. **Blood Press Suppl** 1996;3:19-21

Characterization of the binding of endothelin ETB selective ligands in human and rat heart. Russell FD, et al.
Br J Pharmacol 1996 Oct;119(4):631-6

Enhancement of the ATP-sensitive K+ current by extracellular ATP in rat ventricular myocytes. Involvement of adenylyl cyclase-induced subsarcolemmal ATP depletion. Babenko A, et al. **Circ Res** 1997 Apr; 80(4):589-600

Role of the Kv4.3 K+ channel in ventricular muscle. A molecular correlate for the transient outward current [published erratum appears in Circ Res 1997 Jan;80(1):147] Dixon JE, et al. **Circ Res** 1996 Oct;79(4):659-68

Modulation by pH0 and intracellular Ca2+ of Na(+)-H+ exchange in diabetic rat isolated ventricular myocytes. Le Prigent K, et al. **Circ Res** 1997 Feb;80(2):253-60

Insulin-like growth factor II induces DNA synthesis in fetal ventricular myocytes in vitro. Liu Q, et al. **Circ Res** 1996 Oct;79(4):716-26

Thrombin activates the sarcolemmal Na(+)-H+ exchanger. Evidence for a receptor-mediated mechanism involving protein kinase C. Yasutake M, et al. **Circ Res** 1996 Oct; 79(4):705-15

Increased ventricular sialylation in patients with heart failure secondary to ischemic heart disease. Crook JR, et al.
Clin Cardiol 1997 May;20(5):455-8

A novel gene suppressed in the ventricle of carnitine-deficient juvenile visceral steatosis mice. Masuda M, et al. **FEBS Lett** 1997 May 19;408(2):221-4

Venticular expression of atrial and brain natriuretic peptides in patients with myocarditis. Takemura G, et al.
Int J Cardiol 1995 Dec;52(3):213-22

Collaborative roles for c-Jun N-terminal kinase, c-Jun, serum response factor, and Sp1 in calcium-regulated myocardial gene expression. McDonough PM, et al.
J Biol Chem 1997 Sep 19;272(38):24046-53

Identification and functional reconstitution of the type 2 inositol 1,4,5-trisphosphate receptor from ventricular cardiac myocytes. Perez PJ, et al. **J Biol Chem** 1997 Sep 19;272(38):23961-9

Differential effects of protein kinase C, Ras, and Raf-1 kinase on the induction of the cardiac B-type natriuretic peptide gene through a critical promoter-proximal M-CAT element. Thuerauf DJ, et al. **J Biol Chem** 1997 Mar 14; 272(11):7464-72

N-cadherin in adult rat cardiomyocytes in culture. I. Functional role of N-cadherin and impairment of cell-cell contact by a truncated N-cadherin mutant. Hertig CM, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):1-10

Potentiation of beta-adrenergic signaling by adenoviral-mediated gene transfer in adult rabbit ventricular myocytes. Drazner MH, et al. **J Clin Invest** 1997 Jan 15;99(2):288-96

Muscarinic receptor modulation of basal and beta-adrenergic stimulated function of the failing human left ventricle. Newton GE, et al. **J Clin Invest** 1996 Dec 15; 98(12):2756-63

Protein synthesis under conditions of anoxia and changing workload in ventricle strips from turtle heart. Bailey JR, et al. **J Exp Zool** 1997 Aug 1;278(5):273-82

Activation of inwardly rectifying potassium channels by muscarinic receptor-linked G protein in isolated human ventricular myocytes. Koumi S, et al. **J Membr Biol** 1997 May 1;157(1):71-81

Identification of ATP-sensitive potassium channel in frog ventricular myocytes. Munemori M, et al.
J Membr Biol 1996 Nov;154(1):45-51

Agonist-independent tonic inhibitory influence of Gi on adenylate cyclase activity in rabbit ventricular myocardium and its removal by pertussis toxin: a role of empty receptor-mediated Gi activation. Akaishi Y, et al.
J Mol Cell Cardiol 1997 Feb;29(2):765-75

L- and T-type calcium currents differ in finch and rat ventricular cardiomyocytes. Bogdanov KY, et al.
J Mol Cell Cardiol 1995 Dec;27(12):2581-93

Na-dependent regulation of intracellular free magnesium concentration in isolated rat ventricular myocytes. Handy RD, et al. **J Mol Cell Cardiol** 1996 Aug;28(8):1641-51

beta-Adrenergic and muscarinic receptor expression are regulated in opposite ways during senescence in rat left ventricle. Hardouin S, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):309-19

Cardiac Na+-H+ exchanger during postnatal development in the rat: changes in mRNA expression and sarcolemmal activity. Haworth RS, et al. **J Mol Cell Cardiol** 1997 Jan; 29(1):321-32

Chloride-hydroxyl exchange in the guinea-pig ventricular myocyte: no role for bicarbonate. Hun Leem C, et al.
J Mol Cell Cardiol 1997 Sep;29(9):2483-9

Alpha-adrenergic stimulation enhances inducible nitric oxide synthase expression in rat cardiac myocytes. Ikeda U, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1539-45

Dystrophin-glycoprotein complex purified from hamster cardiac muscle. Comparison of the complexes from cardiac and skeletal muscles of hamster and rabbit. Iwata Y, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2501-9

Differential localization and development-dependent expression of G-protein subunits, Go alpha and G beta, in rabbit heart. Kawai Y, et al. **J Mol Cell Cardiol** 1996 Jul;28(7):1555-64

Increased expression of cardiac phosphatases in patients with end-stage heart failure. Neumann J, et al.
J Mol Cell Cardiol 1997 Jan;29(1):265-72

Immediate-early gene responses to different cardiac loads in the ejecting rabbit left ventricle. Slinker BK, et al.
J Mol Cell Cardiol 1996 Jul;28(7):1565-74

Ontogeny of sarcoplasmic reticulum protein phosphorylation by Ca2+--calmodulin-dependent protein kinase. Xu A, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):405-18

Inhibition of L-type calcium current in rat ventricular cells by the tyrosine kinase inhibitor, genistein and its inactive analog, daidzein. Yokoshiki H, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):807–14

Decreased expression of ventricular angiotensin receptor type 1 mRNA after human heart transplantation. Regitz-Zagrosek V, et al. **J Mol Med** 1996 Dec; 74(12):777–82

Expression of alpha 1 adrenergic receptor subtype mRNAs in the rat cardiovascular system with aging. Miller JW, et al. **Mech Ageing Dev** 1996 Jun 7;87(2):75–89

Insulin-induced phosphorylation of a 38 kDa DNA-binding protein in ventricular cardiomyocytes: possible implication of nuclear protein phosphatase activity. von Holtey M, et al. **Mol Cell Endocrinol** 1996 Jul 1;120(2):107–14

Kynurenic acid and kynurenine aminotransferase in heart. Baran H, et al. **Pediatr Res** 1997 Mar;41(3):404–10

Metabolic compartmentalization in neonatal swine myocytes. Livingston BE, et al. **Pediatr Res** 1996 Jul;40(1):59–65

[Histochemical study of myocardial metabolism in experimental massive pulmonary embolism] Tverskaia MS, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):647–50 **(Rus)**

MICROBIOLOGY

Postmortem blood cultures. Evaluation of separate sampling of blood from the right and left cardiac ventricle. Schønheyder HC, et al. **APMIS** 1997 Jan;105(1):76–8

Salmonella endocarditis of a ventricular aneurysm: a case report and review of the literature. Amyot R, et al. **Can J Cardiol** 1997 Mar;13(3):299–301 (07 ref.)

PATHOLOGY

Increased left ventricular cavity size, not wall thickness, potentiates myocardial ischemia. Heupler S, et al. **Am Heart J** 1997 Jun;133(6):691–7

Correlation of thallium uptake with left ventricular wall thickness by cine magnetic resonance imaging in patients with acute and healed myocardial infarcts. Lawson MA, et al. **Am J Cardiol** 1997 Aug 15;80(4):434–41

Papillary muscle fractional shortening is a determinant of heart shape in patients with prior myocardial infarction. Tischler MD, et al. **Am J Cardiol** 1997 Jul 15;80(2):204–6

A case of right ventricular dilated cardiomyopathy. Okada E, et al. **Am J Cardiovasc Pathol** 1995;5(1):1–10

Polyploidy of myocyte nuclei in pressure overloaded human hearts: a flow cytometric study in left and right ventricular myocardium. Vliegen HW, et al. **Am J Cardiovasc Pathol** 1995;5(1):27–31

Left ventricular aneurysm caused by blunt chest trauma. Arcudi G, et al. **Am J Forensic Med Pathol** 1996 Sep; 17(3):194–6 (11 ref.)

Left and right ventricular dysplasia and Uhl's anomaly. A case report. Sutter A, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):141–5

Massive nitrogen loss in critical surgical illness: effect on cardiac mass and function. Hill AA, et al. **Ann Surg** 1997 Aug;226(2):191–7

Diagnostic transaortic cardioscopy of the left ventricle. Bauer EP, et al. **Ann Thorac Surg** 1996 Dec;62(6):1845–6

Cell-type specificity of preconditioning in an in vitro model. Liu Y, et al. **Basic Res Cardiol** 1996 Nov-Dec;91(6):450–7

Lipomatous metaplasia in left ventricular scar. Baroldi G, et al. **Can J Cardiol** 1997 Jan;13(1):65–71

A new method for isolation of cardiac myocytes by percutaneous endomyocardial biopsy. Abela GS, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):227–30

In-hospital outcome of elderly patients with acute inferior myocardial infarction and right ventricular involvement. Bueno H, et al. **Circulation** 1997 Jul 15;96(2):436–41

Noninvasive measurement of shortening in the fiber and cross-fiber directions in the normal human left ventricle and in idiopathic dilated cardiomyopathy. MacGowan GA, et al. **Circulation** 1997 Jul 15;96(2):535–41

Adenosine-sensitive ventricular tachycardia: right ventricular abnormalities delineated by magnetic resonance imaging. Markowitz SM, et al. **Circulation** 1997 Aug 19; 96(4):1192–200

Does magnesium modify left ventricular remodeling after experimental myocardial infarction? Ogunyankin KO, et al. **Coron Artery Dis** 1995 Sep;6(9):709–14

Cellular evidence for arrhythmogenic right ventricular dysplasia being an evolving disease [letter; comment] Cheng TO. **Eur Heart J** 1997 Apr;18(4):703–4. Comment on: Eur Heart J 1996 Nov;17(11):1717–22.

Arrhythmogenic right ventricular dysplasia: MR features. Midiri M, et al. **Eur Radiol** 1997;7(3):307–12

Comparison of transthoracic three dimensional echocardiography with magnetic resonance imaging in the assessment of right ventricular volume and mass. Vogel M, et al. **Heart** 1997 Aug;78(2):127–30

Stress-induced laboratory blood pressure in relation to ambulatory blood pressure and left ventricular mass among borderline hypertensive and normotensive individuals. Georgiades A, et al. **Hypertension** 1996 Oct;28(4):641–6

Regional myocardial shape alterations in patients with anterior myocardial infarction. Baur LH, et al. **Int J Card Imaging** 1996 Jun;12(2):89–96

Abnormalities of cardiocytes in regions bordering fibrous scars of dogs with heart failure. Sharov VG, et al. **Int J Cardiol** 1997 Aug 8;60(3):273–9

Growth hormone attenuates early left ventricular remodeling and improves cardiac function in rats with large myocardial infarction. Cittadini A, et al. **J Am Coll Cardiol** 1997 Apr; 29(5):1109–16

The surgical anatomy of ventricular septal defect part IV: double outlet ventricle. Anderson RH, et al. **J Card Surg** 1996 Jan-Feb;11(1):2–11

Late diagnosis of pericardial constriction associated with defibrillator patches and deformation of the left ventricle. Le Tourneau T, et al. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):539–41

Intracardiac extension of intravenous leiomyomatosis. A case report. Casillas JA, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):83–6

External jugular vein approach for percutaneous right ventricular biopsy. Anderson AS, et al. **J Heart Lung Transplant** 1997 May;16(5):576–8

Determination of left ventricular mass in clinical practice. Boudoulas H. **J Heart Valve Dis** 1997 May;6(3):222–7 (31 ref.)

Left ventricular concentric remodelling and carotid structural changes in essential hypertension. Cuspidi C, et al. **J Hypertens** 1996 Dec;14(12):1441–6

Measurement of left ventricular mass: methodology and expertise [editorial] Devereux RB, et al. **J Hypertens** 1997 Aug;15(8):801–9 (101 ref.)

A welcome debate on how to measure the left ventricular mass [editorial] Zanchetti A. **J Hypertens** 1997 Aug; 15(8):799

Transmural changes in stress-free myocyte morphology during pressure overload hypertrophy in the rat. Omens JH, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1975–83

Altered expression of atrial natriuretic peptide and contractile protein genes in hypertrophied ventricle of JVS mice with systemic carnitine deficiency. Yoshimine K, et al. **J Mol Cell Cardiol** 1997 Feb;29(2):571–8

Magnetic resonance imaging of apical hypertrophic cardiomyopathy. Soler R, et al. **J Thorac Imaging** 1997 Jul;12(3):221–5

Ventricular discrepancy as a sonographic sign of coarctation of the fetal aorta: how reliable is it? Brown DL, et al. **J Ultrasound Med** 1997 Feb;16(2):95–9

Disappearance of coronary artery-ventricular fistulas after a radical operation for tetralogy of Fallot. Kadokami T, et al. **Jpn Circ J** 1996 Aug;60(8):624–7

Arrhythmogenic right ventricular dysplasia (ARVD): an overlooked and underdiagnosed condition? Coumbe A, et al. **Med Sci Law** 1997 Jul;37(3):262–5

Familial right ventricular dysplasia (cardiomyopathy). Kearney DL, et al. **Pediatr Pathol Lab Med** 1995 Jan-Feb; 15(1):181–9

Atria and ventricles of copper-deficient rats exhibit similar hypertrophy and similar altered biochemical characteristics. Lear PM, et al. **Proc Soc Exp Biol Med** 1997 Sep;215(4):377–85

Lone ventricular cardiomyopathy, 1993–1996. Mokhobo KP, et al. **S Afr Med J** 1997 Jul;87(7):892–6

Three-vessel view of the fetal upper mediastinum: an easy means of detecting abnormalities of the ventricular outflow tracts and great arteries during obstetric screening. Yoo SJ, et al. **Ultrasound Obstet Gynecol** 1997 Mar;9(3):173–82

[Right precordial leads and sudden death. Relation with arrhythmogenic right ventricular dysplasia] Fontaine G, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1323–9 (Eng. Abstr.) **(Fre)**

[Right ventricular arrhythmogenic dysplasia] Loiselet P. **Presse Med** 1997 Feb 8;26(3):137–46 **(Fre)**

[Myocardial pump failure in dilated cardiomyopathy and pheochromocytoma] Weickert U, et al. **Pathologe** 1997 Mar;18(2):167–71 (Eng. Abstr.) **(Ger)**

[Arrhythmogenic dysplasia of the left ventricle and magnetic resonance: a happy union or a poor relationship? (editorial; comment)] Casolo GC. **G Ital Cardiol** 1996 May; 26(5):495–501. Comment on: G Ital Cardiol 1996 May;26(5):483–93. **(Ita)**

[Diagnostic contribution of magnetic resonance in clinically suspected arrhythmogenic dysplasia of the right ventricle (see comments)] Fattori R, et al. **G Ital Cardiol** 1996 May; 26(5):483–93 (Eng. Abstr.). Comment in: G Ital Cardiol 1996 May;26(5):495–501. **(Ita)**

[Effect of wall thickness of left ventricle on 201Tl myocardial SPECT images: myocardial phantom study] Koto M, et al. **Kaku Igaku** 1996 Jul;33(7):771–7 (Eng. Abstr.) **(Jpn)**

[Pulmonary atresia with intact ventricular septum] Yokota M. **Ryoikibetsu Shokogun Shirizu** 1996;(13):136–9 (15 ref.) **(Jpn)**

[Diagnosis by echocardiography of a case of myxoma in the left ventricle] García Angleu F, et al. **An Esp Pediatr** 1996 Oct;45(4):415–6 **(Spa)**

[Arrhythmogenic dysplasia of the right ventricle] Brugada J, et al. **Rev Esp Cardiol** 1997 Aug;50(8):541–7 (29 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Studies of the electrical activity of the ventricles and the origin of the QRS complex. Scher AM. **Acta Cardiol** 1995; 50(6):429–65 (68 ref.)

Electrical restitution in rat ventricular muscle. Nanasi PP, et al. **Acta Physiol Scand** 1996 Oct;158(2):143–53

Effect of an intravenous angiotensin-converting enzyme inhibitor on the electrophysiologic features of normal and hypertrophied feline ventricles. Rials SJ, et al. **Am Heart J** 1996 Nov;132(5):989–94

Midventricular diastolic pulse Doppler flow velocity profiles in the normal and abnormal left ventricle. Sniderman AD, et al. **Am J Cardiol** 1997 Aug 15;80(4):498–505

Restoring forces assessed with left atrial pressure clamps. Bell SP, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1015–20

Biaxial mechanics of the passively overstretched left ventricle. Emery JL, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2299–305

Myocardial VO2 of mechanically unloaded contraction of rat ventricular slices measured by a new approach. Yasuhara S, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):H1063–70

Recovery of systolic and diastolic left ventricular function early after cardiopulmonary bypass. De Hert SG, et al. **Anesthesiology** 1996 Nov;85(5):1063–75

Technical features of a CCD video camera system to record cardiac fluorescence data. Baxter WT, et al. **Ann Biomed Eng** 1997 Jul-Aug;25(4):713–25

The contractile response of the ventricular myocardium to adenosine A1 and A2 receptor stimulation. Dobson JG Jr, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:64–73

Intramural blood flow of skeletal muscle ventricles functioning as aortic counterpulsators. van Doorn CA, et al. **Ann Thorac Surg** 1997 Jul;64(1):86–93

Effects of stimulated free latissimus dorsi muscle graft on LVEDV and LVSW: a new dynamic cardiomyoplasty technique. Dudra J, et al. **Artif Organs** 1997 Apr; 21(4):306–11

Acceleration of contraction by beta-adrenoceptor stimulation is greater in ventricular myocytes from failing than non-failing human hearts. Harding SE, et al. **Basic Res Cardiol** 1996;91 Suppl 2:53–6

T-type calcium current is expressed in dedifferentiated adult rat ventricular cells in primary culture. Fares N, et al. **C R Acad Sci III** 1996 Jul;319(7):569–76

Clinical feasibility of echocardiographic automated border detection in monitoring left ventricular response to acute changes of preload in normal subjects. Grandi AM, et al. **Cardiology** 1997 Jul-Aug;88(4):393–6

Spatial changes in transmembrane potential during extracellular electrical shocks in cultured monolayers of neonatal rat ventricular myocytes. Gillis AM, et al. **Circ Res** 1996 Oct;79(4):676–90

Effects of thyroid hormone on left ventricular performance and regulation of contractile and Ca(2+)-cycling proteins in the baboon. Implications for the force-frequency and relaxation-frequency relationships. Khoury SF, et al. **Circ Res** 1996 Oct;79(4):727–35

Ras inhibits Jun-activated human atrial natriuretic peptide gene transcription in cultured ventricular myocytes. Kovacic-Milivojevic B, et al. **Circ Res** 1997 Apr; 80(4):580–8

Inhibition of L-type Ca2+ channel current in rat ventricular myocytes by terfenadine. Liu S, et al. **Circ Res** 1997 Aug; 81(2):202–10

Positive inotropy mediated by diacylglycerol in rat ventricular myocytes. Pi Y, et al. **Circ Res** 1997 Jul; 81(1):92–100

Characterization of gap junction channels in adult rabbit atrial and ventricular myocardium. Verheule S, et al. **Circ Res** 1997 May;80(5):673–81

Developmental changes in transient outward current in mouse ventricle. Wang L, et al. **Circ Res** 1997 Jul; 81(1):120–7

Endothelin-1 inhibits the slow component of cardiac delayed rectifier K+ currents via a pertussis toxin-sensitive mechanism. Washizuka T, et al. **Circ Res** 1997 Aug; 81(2):211–8

Phosphatase-mediated enhancement of cardiac cAMP-activated Cl-conductance by a Cl- channel blocker, anthracene-9-carboxylate. Zhou SS, et al. **Circ Res** 1997 Aug;81(2):219–28

Angiotensin II inhibits protein kinase A-dependent chloride conductance in heart via pertussis toxin-sensitive G proteins. Obayashi K, et al. **Circulation** 1997 Jan 7; 95(1):197–204

Noninvasive assessment of the ventricular relaxation time constant (tau) in humans by Doppler echocardiography. Scalia GM, et al. **Circulation** 1997 Jan 7;95(1):151–5

Analysis of the effect of apex-base wall curvature on the vectorial representation of ventricular depolarization: a model study. Szathmáry V. **Comput Biomed Res** 1997 Apr; 30(2):117–28

Voltage sum of filtered ECG signal--a sensitive parameter of ventricular activation. Slavkovsky P, et al. **Comput Methods Programs Biomed** 1996 Jun;50(1):1–11

Feasibility of transoesophageal echocardiography for evaluation of left ventricular performance in anaesthetised horses. Young LE, et al. **Equine Vet J Suppl** 1995 Sep; (19):63–70

The occurrence of stable subconductance levels in Na(+)-activated K+ channels in excised membrane patches from guinea-pig ventricular myocytes. Mistry DK, et al. **Exp Physiol** 1996 Nov;81(6):899–907

Logistic character of myocardial twitch force curve: simulation. Sakamoto T, et al. **Heart Vessels** 1996; 11(4):171–9

Mechanisms of coronary flow reserve impairment in human hypertension. An integrated approach by transthoracic and transesophageal echocardiography. Kozàkovà M, et al. **Hypertension** 1997 Feb;29(2):551–9

Electrocardiographic repolarization during stress from awakening on alarm call. Toivonen L, et al. **J Am Coll Cardiol** 1997 Sep;30(3):774–9

Left ventricular mass, geometry, and filling in endurance athletes: association with exercise blood pressure. Karjalainen J, et al. **J Appl Physiol** 1997 Feb;82(2):531–7

Relation between torsion and cross-sectional area change in the human left ventricle. Aelen FW, et al. **J Biomech** 1997 Mar;30(3):207–12

Activation and repolarization patterns are governed by different structural characteristics of ventricular myocardium: experimental study with voltage-sensitive dyes and numerical simulations. Efimov IR, et al. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):512–30

Evidence for the presence of M cells in the guinea pig ventricle. Sicouri S, et al. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):503–11

Alpha 1D-adrenoceptors do not contribute to inotropic responses of neonatal rat myocardium. Deng XF, et al. **J Cardiovasc Pharmacol** 1997 Jan;29(1):57–60

Demonstration of the relationship between heart dimensions and QRS voltage amplitude [see comments] Castini D, et al. **J Electrocardiol** 1996 Jul;29(3):169–73. Comment in: J Electrocardiol 1996 Jul;29(3):175–7.

Measuring spatial waves of repolarization in canine ventricles using high-resolution epicardial mapping. Lux RL, et al. **J Electrocardiol** 1996;29 Suppl:130–4

Effects of activation sequence on monophasic action potential configuration in the dog. Tachibana H, et al. **J Electrocardiol** 1997 Jan;30(1):65–70

Computer-assisted study of ECG indices of the dispersion of ventricular repolarization. Zaidi M, et al. **J Electrocardiol** 1996 Jul;29(3):199–211

Ventricular arrhythmias induced by ischaemia-reperfusion are unaffected by myocardial glutathione depletion. Connaughton M, et al. **J Mol Cell Cardiol** 1996 Apr; 28(4):679–88

Eicosapentaenoic acid incorporation in membrane phospholipids modulates receptor-mediated phospholipase C and membrane fluidity in rat ventricular myocytes in culture. de Jonge HW, et al. **J Mol Cell Cardiol** 1996 May; 28(5):1097–108

Direct activation of the ATP-sensitive potassium channel by oxygen free radicals in guinea-pig ventricular cells: its potentiation by MgADP [published erratum appears in J Mol Cell Cardiol 1997 Feb;29(2):855] Ichinari K, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1867–77

Developmental changes in action potential and membrane currents in fetal, neonatal and adult guinea-pig ventricular myocytes. Kato Y, et al. **J Mol Cell Cardiol** 1996 Jul; 28(7):1515–22

Unitary current through the inward rectifier K+ channel cloned from rabbit heart--comparison with the native K+ channel. Nagashima M, et al. **J Mol Cell Cardiol** 1996 May; 28(5):957–65

Developmental differences and regional similarities in the responses of rat cardiac skinned muscles to acidosis, inorganic phosphate and caffeine. Palmer S, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):797–805

Biphasic response of action potential duration to metabolic inhibition in rabbit and human ventricular myocytes: role of transient outward current and ATP-regulated potassium current. Verkerk AO, et al. **J Mol Cell Cardiol** 1996 Dec; 28(12):2443–56

Comparison of the effects of class I anti-arrhythmic drugs, cibenzoline, mexiletine and flecainide, on the delayed rectifier K+ current of guinea-pig ventricular myocytes. Wang DW, et al. **J Mol Cell Cardiol** 1996 May; 28(5):893–903

Inhibition of L-type calcium current in rat ventricular cells by the tyrosine kinase inhibitor, genistein and its inactive analog, daidzein. Yokoshiki H, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):807–14

Restoration of action potential duration and transient outward current by regression of left ventricular hypertrophy. Yokoshiki H, et al. **J Mol Cell Cardiol** 1997 May;29(5):1331–9

The effect of internal sodium and caesium on phasic contraction of patch-clamped rabbit ventricular myocytes. Levi AJ, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):1–19

Submicroscopic calcium signals as fundamental events of excitation--contraction coupling in guinea-pig cardiac myocytes. Lipp P, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):31–8

Mechanism of the negative force-frequency relationship in physiologically intact rat ventricular myocardium--studies by intracellular Ca2+ monitor with indo-1 and by 31P-nuclear magnetic resonance spectroscopy. Morii I, et al. **Jpn Circ J** 1996 Aug;60(8):593–603

Diastolic ventricular interaction: Starling (and Bernheim) revisited [comment] de Bono D. **Lancet** 1997 Jun 14; 349(9067):1712. Comment on: Lancet 1997 Jun 14;349(9067):1720–4.

Cardiac alpha(1)-adrenoceptors that regulate contractile function: subtypes and subcellular signal transduction mechanisms. Endoh M. **Neurochem Res** 1996 Feb; 21(2):217–29 (100 ref.)

Changes in hemodynamics, ventricular remodeling, and ventricular contractility during normal pregnancy: a longitudinal study. Gilson GJ, et al. **Obstet Gynecol** 1997 Jun;89(6):957–62

Accidental atrial and ventricular stimulation by pacemaker event marker. Böhm A, et al. **Pacing Clin Electrophysiol** 1997 May;20(5 Pt 1):1367–8

Perinatal left ventricular performance in fetal sheep: interaction between oxygen ventilation and contractility. Berning RA, et al. **Pediatr Res** 1997 Jan;41(1):57–64

Regional differences in the regulation of intracellular sodium and in action potential configuration in rabbit left ventricle. Cook SJ, et al. **Pflugers Arch** 1997 Feb;433(4):515–22

Developmental changes of the ultrarapid delayed rectifier K+ current in rat ventricular myocytes. Guo W, et al. **Pflugers Arch** 1997 Feb;433(4):442–5

Roles of the voltage-gated K+ channel subunits, Kv 1.5 and Kv 1.4, in the developmental changes of K+ currents in cultured neonatal rat ventricular cells. Guo W, et al. **Pflugers Arch** 1997 Jun;434(2):206–8

Developmental change in the voltage-dependence of the pacemaker current, if, in rat ventricle cells. Robinson RB, et al. **Pflugers Arch** 1997 Feb;433(4):533–5

The effects of changes to action potential duration on the calcium content of the sarcoplasmic reticulum in isolated guinea-pig ventricular myocytes. Terracciano CM, et al. **Pflugers Arch** 1997 Feb;433(4):542–4

Suppression of voltage-gated L-type Ca2+ currents by polyunsaturated fatty acids in adult and neonatal rat ventricular myocytes. Xiao YF, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4182–7

Re-entrant activity and its control in a model of mammalian ventricular tissue. Biktashev VN, et al. **Proc R Soc Lond B Biol Sci** 1996 Oct 22;263(1375):1373–82

Cytosolic Ca2+ concentration and contraction-relaxation properties of ventricular myocytes from Escherichia coli endotoxemic guinea pigs: effect of fluid resuscitation. Zhong J, et al. **Shock** 1997 May;7(5):383–8

Structure and function of myocardial fibrillar collagen. Caulfield JB, et al. **Technol Health Care** 1997 Apr; 5(1–2):95–113

The heart muscle's putative "secondary structure'. Functional implications of a band-like anisotropy. Lunkenheimer PP, et al. **Technol Health Care** 1997 Apr;5(1–2):53–64 (53 ref.)

A perspective on myocardial contractility. Palladino JL, et al. **Technol Health Care** 1997 Apr;5(1–2):135–44

Differentiation of intramyocardial fluid pressure from fiber stress. Rabbany SY, et al. **Technol Health Care** 1997 Apr; 5(1–2):145–57

Thresholds for premature contractions in murine hearts exposed to pulsed ultrasound. MacRobbie AG, et al. **Ultrasound Med Biol** 1997;23(5):761–5

[Methods for assessing ventricular relaxation and filling] Razzolini R. **Cardiologia** 1995 Dec;40(12 Suppl 1):371–3 **(Ita)**

[Structure of blood flow in the left ventricle and aorta using the analytical solutions of nonstationary hydrodynamics equations and morphometric study] Kiknadze GI, et al. **Dokl Akad Nauk** 1996 Nov;351(1):119–22 **(Rus)**

[The so-called jumping wave (editorial)] Medrano Castro GA. **Arch Inst Cardiol Mex** 1995 Nov-Dec;65(6):481–3 **(Spa)**

[Coronary perfusion: classification based on the type and relative extension of coronary irrigation. Morphologic determinants] Reig J, et al. **Rev Esp Cardiol** 1996 Sep; 49(9):675–81 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Shortening of Doppler-derived deceleration time of early diastolic transmitral flow in the presence of pulmonary hypertension through ventricular interaction. Nagaya N, et al. **Am J Cardiol** 1997 Jun 1;79(11):1502–6

Contribution of the ventricles and the atrial appendages to the elevation of plasma atrial natriuretic factor (ANF) during pacing-induced heart failure in conscious dogs. Shen W, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):319–28

Calcium-dependent electrophysiological alterations in hypertrophied rat cardiomyocytes. Ruocco C, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):425–9

Pathophysiology of precordial ST-segment depression in inferior wall acute myocardial infarction: an echocardiographic appraisal. Hasdai D, et al. **Cardiology** 1997 Jul-Aug;88(4):361–6

Alterations of Na+ currents in myocytes from epicardial border zone of the infarcted heart. A possible ionic mechanism for reduced excitability and postrepolarization refractoriness. Pu J, et al. **Circ Res** 1997 Jul;81(1):110–9

Acute ischemic ventricular arrhythmias in pigs with healed myocardial infarction: comparative effects of ischemia at a distance and ischemia at the infarct zone. Cinca J, et al. **Circulation** 1997 Jul 15;96(2):653–8

Cellular graded responses and ventricular vulnerability to reentry by a premature stimulus in isolated canine ventricle. Gotoh M, et al. **Circulation** 1997 Apr 15;95(8):2141–54

Altered ventricular repolarization during hypoglycaemia in patients with diabetes. Marques JL, et al. **Diabet Med** 1997 Aug;14(8):648–54

Growth hormone and heart performance. A novel mechanism of cardiac wall stress regulation in humans [see comments] Fazio S, et al. **Eur Heart J** 1997 Feb;18(2):340–7 . Comment in: Eur Heart J 1997 Feb;18(2):181–4.

Impact of atrioventricular delay on heart rate variability of paced patients with and without heart failure. Simantirakis E, et al. **Int J Cardiol** 1995 Dec;52(3):235–9

Repetitive monomorphic tachycardia from the left ventricular outflow tract: electrocardiographic patterns consistent with a left ventricular site of origin. Callans DJ, et al. **J Am Coll Cardiol** 1997 Apr;29(5):1023–7

Impact of volume loading and load reduction on ventricular refractoriness and conduction properties in canine congestive heart failure. Zhu WX, et al. **J Am Coll Cardiol** 1997 Sep;30(3):825–33

Adenosine-sensitive ventricular tachycardia: a conceptual approach. Lerman BB, et al. **J Cardiovasc Electrophysiol** 1996 Jun;7(6):559–69 (54 ref.)

A new experimental model of isolated myocardial ischemic injury: ECG findings of acute isolated right ventricular ischemic injury. Fantidis P, et al. **J Electrocardiol** 1997 Jan; 30(1):71–8

Isolated infarctions of the right ventricle [letter] Mittal SR, et al. **J Electrocardiol** 1997 Apr;30(2):157–8

Dispersion of ventricular repolarization in hypertrophic cardiomyopathy. Zaidi M, et al. **J Electrocardiol** 1996;29 Suppl:89–94

Effects of anoxia, acidosis and temperature on the contractile properties of turtle cardiac muscle strips. Shi H, et al. **J Exp Biol** 1997 Jul;200 (Pt 14):1965–73

The combined effects of brain death and cardiac graft preservation on cardiopulmonary hemodynamics and function before and after subsequent heart transplantation. Bittner HB, et al. **J Heart Lung Transplant** 1996 Aug; 15(8):764–77

Correlations between resting regional wall motion and regional myocardial blood flow (at rest and during exercise) in infarct-related myocardium--a study with [13N]ammonia positron emission tomography. Akutsu Y, et al. **Jpn Circ J** 1997 Aug;61(8):665–72

Radiofrequency catheter ablation for ventricular tachycardia with a right bundle branch block pattern and left axis deviation. Goseki Y, et al. **Jpn Circ J** 1995 Dec; 59(12):829–32

Stroke volume generation of the left ventricle and its relation to chamber shape in normal subjects and patients with mitral or aortic regurgitation. Hiro T, et al. **Jpn Circ J** 1996 Apr;60(4):216–27

A large right coronary artery-left ventricle fistula with mild volume overload on the left ventricle owing to its capacitive action--pulsed Doppler and cineangiographic analyses in a patient. Oka T, et al. **Jpn Circ J** 1997 Aug; 61(8):719–23

Cytoskeletal role in the contractile dysfunction of cardiocytes from hypertrophied and failing right ventricular myocardium. Tagawa H, et al. **Proc Assoc Am Physicians** 1996 May;108(3):218–29

[Ventricular relaxation and refilling in myocardial stunning] Sheiban I, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):375–81 **(Ita)**

RADIATION EFFECTS

The transcription of the XRCC1 gene in the heart of radiation-resistant and radiation-sensitive mice after ionizing irradiation. Labudova O, et al. **Pediatr Res** 1997 Mar;41(3):435–9

RADIOGRAPHY

Regional three-dimensional geometry of the normal human left ventricle using cine computed tomography. Lessick J, et al. **Ann Biomed Eng** 1996 Sep-Oct;24(5):583–94

The left ventriculographic pattern and serial electrocardiographic changes in hypertrophic cardiomyopathy patients with giant negative T waves. Hata S, et al. **Cardiology** 1996 Sep-Oct;87(5):365–73

Left ventricular regression equations from single plane cine and digital X-ray ventriculograms revisited. Reiber JH, et al. **Int J Card Imaging** 1996 Jun;12(2):69–78

Ultrafast computed tomography in infectious pseudoaneurysm of the left ventricular outflow tract. Berrizbeitia LD, et al. **J Thorac Cardiovasc Surg** 1997 Jul; 114(1):138–9

[An analysis of left ventricular function by left ventriculography] Sakai Y, et al. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:666–71 (9 ref.) **(Jpn)**

RADIONUCLIDE IMAGING

Correlation of thallium uptake with left ventricular wall thickness by cine magnetic resonance imaging in patients with acute and healed myocardial infarcts. Lawson MA, et al. **Am J Cardiol** 1997 Aug 15;80(4):434–41

SURGERY

Conduits in the pulmonary circulation. Brown JW, et al. **Adv Card Surg** 1996;8:109–29

Fate of trileaflet equine pericardial extracardiac conduit used for the correction of anomalies having pulmonic ventricle-pulmonary arterial discontinuity. Ando M, et al. **Ann Thorac Surg** 1997 Jul;64(1):154–8

Partial left ventriculectomy to treat end-stage heart disease. Batista RJ, et al. **Ann Thorac Surg** 1997 Sep;64(3):634–8

Direct anastomosis of pulmonary artery-to-right ventricular outflow for correction of tetralogy of Fallot with pulmonary atresia. Nomura F, et al. **Ann Thorac Surg** 1996 Oct;62(4):1199–202

Ventriculectomy. A direct application of Laplace's law [editorial] Kass DA. **Arq Bras Cardiol** 1996 Dec;67(6):401–2

Laser versus radiofrequency catheter ablation of ventricular myocardium in dogs: a comparative test. Weber HP, et al. **Cardiology** 1997 Jul-Aug;88(4):346–52

Radical alternatives to transplantation. Starling RC.
Curr Opin Cardiol 1997 Mar;12(2):166–71 (22 ref.)

Lecompte operation with preservation of the pulmonary valve for anomalies of ventriculoarterial connection with ventricular septal defect and subpulmonary stenosis. van Son JA, et al. **Eur J Cardiothorac Surg** 1996;10(7):585–9

Right ventricle to pulmonary artery connections. Dharmapuram AK, et al. **Indian Heart J** 1997 Jan–Feb; 49(1):65–70

Cardiorespiratory responses to exercise after repair of the univentricular heart. Ohuchi H, et al. **Int J Cardiol** 1997 Jan 3;58(1):17–30

The tricuspid valve in Ebstein's anomaly: what should be done on the valve and on the right ventricle? Chauvaud S. **Isr J Med Sci** 1996 Oct;32(10):844–5

Apico–aortic shunt: a support technique during surgery on the descending thoracic aorta. Kuribayashi R, et al.
J Cardiovasc Surg (Torino) 1997 Jun;38(3):271–6

Use of the His/RVA electrode catheter in children. Dick M 2nd, et al. **J Electrocardiol** 1996;29 Suppl:227–33

Left ventricular rupture following mitral valve replacement [see comments] Reardon MJ, et al. **J Heart Valve Dis** 1996 Jan;5(1):10–15. Comment in: J Heart Valve Dis 1996 Sep;5(5):571.

Evaluation of cryopreserved homografts in the right ventricular outflow tract after the Ross procedure: intermediate–term follow up. Ward KE, et al.
J Heart Valve Dis 1997 Mar;6(2):130–3

Heart reduction surgery: an analysis of the impact on cardiac function. Dickstein ML, et al.
J Thorac Cardiovasc Surg 1997 Jun;113(6):1032–40

Video–assisted cardioscopic resection of recurrent left ventricular myxoma. Li JY, et al.
J Thorac Cardiovasc Surg 1996 Dec;112(6):1673–4

Transcatheter neodymium–yttrium–aluminum–garnet laser coagulation of canine ventricle using a balloon–tipped cardioscope. Hirao K, et al. **Jpn Circ J** 1997 Aug; 61(8):695–703

Mid–term result of one and one half ventricular repair in a patient with pulmonary atresia and intact ventricular septum. Miyaji K, et al. **Jpn Heart J** 1996 Jul;37(4):509–13

Catheter ablation of canine ventricular myocardium. The use of repetitive short time constant capacitive shocks to increase lesion volume. Watanabe I, et al. **Jpn Heart J** 1997 Jan;38(1):107–15

Left–ventricular–volume reduction for end–stage heart failure [letter] [see comments] Angelini GD, et al.
Lancet 1997 Aug 16;350(9076):489. Comment in: Lancet 1997 Aug 16;350(9076):456.

Does surgical reduction of heart size reduce heart failure? [comment] Carpentier A. **Lancet** 1997 Aug 16; 350(9076):456. Comment on: Lancet 1997 Aug 16;350(9076):489.

Right ventricular disarticulation procedures: the role of late potentials in the genesis of postoperative ventricular arrhythmias. Doig JC, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):923–9

Left ventricular aneurysms: pathophysiologic observations and standard resection. Cox JL.
Semin Thorac Cardiovasc Surg 1997 Apr;9(2):113–22 (28 ref.)

Surgical management of left ventricular aneurysms: a clarification of the similarities and differences between the Jatene and Dor techniques. Cox JL.
Semin Thorac Cardiovasc Surg 1997 Apr;9(2):131–8

Left ventricular aneurysms: the endoventricular circular patch plasty. Dor V. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):123–30

The treatment of refractory ischemic ventricular tachycardia by endoventricular patch plasty reconstruction of the left ventricle. Dor V. **Semin Thorac Cardiovasc Surg** 1997 Apr; 9(2):146–55

Reconstructive left ventricular surgery for post–ischemic akinetic dilatation. Dor V.
Semin Thorac Cardiovasc Surg 1997 Apr;9(2):139–45

[Endoventricular patch–plasty for reconstruction of ventricular geometry and pump function in myocardial aneurysm] Bohm J, et al. **Z Kardiol** 1996;85 Suppl 4:43–6; discussion 47–8 (Eng. Abstr.) **(Ger)**

[New surgical procedure for patients with dilated heart and end–stage cardiac failure (Batista procedure)] Suma H, et al. **J Cardiol** 1997 Feb;29(2):117–20; discussion 120–2 (Eng. Abstr.) **(Jpn)**

[Reconstruction of right ventricular outflow tract–pulmonary artery utilizing autologous tissue in extreme tetralogy of Fallot after coil embolization for major aortopulmonary collateral artery: report of a case] Gohra H, et al.
Kyobu Geka 1996 Dec;49(13):1122–5 (Eng. Abstr.) **(Jpn)**

[Effects of partial ventriculectomy on left ventricular mechanical properties, shape, and geometry in patients with dilated cardiomyopathy] Bellotti G, et al.
Arq Bras Cardiol 1996 Dec;67(6):395–400 (Eng. Abstr.) **(Por)**

[Initial experience with partial left ventriculectomy as a treatment for end–stage heart failure (see comments)] Bombonato R, et al. **Arq Bras Cardiol** 1996 Apr; 66(4):189–92 (Eng. Abstr.). Comment in: Arq Bras Cardiol 1996 Apr;66(4):223–4. **(Por)**

[Initial experience with partial left ventriculectomy as a treatment for end–stage heart failure (editorial; comment)] Moreira LF. **Arq Bras Cardiol** 1996 Apr;66(4):223–4. Comment on: Arq Bras Cardiol 1996 Apr;66(4):189–92. **(Por)**

[Creation of additional left ventricular tract in female patient with hypertrophic cardiomyopathy] Poliakov VP, et al. **Khirurgiia (Mosk)** 1997;(1):63–4 **(Rus)**

ULTRASONOGRAPHY

Effects of physiologic load of pregnancy on left ventricular contractility and remodeling. Geva T, et al.
Am Heart J 1997 Jan;133(1):53–9

Usefulness of combined color Doppler/contrast in providing complete delineation of left ventricular cavity. Agrawal G, et al. **Am J Cardiol** 1997 Jul 1;80(1):98–101

Reproducibility of wall motion score and its correlation with left ventricular ejection fraction in patients with acute myocardial infarction. Badano L, et al. **Am J Cardiol** 1996 Oct 1;78(7):855–8

Comparison of continuous left ventricular volumes by transthoracic two–dimensional digital echo quantification with simultaneous conductance catheter measurements in patients with cardiac diseases. Chen CH, et al.
Am J Cardiol 1997 Sep 15;80(6):756–61

Estimation of left ventricular chamber and stroke volume by limited M–mode echocardiography and validation by two–dimensional and Doppler echocardiography. de Simone G, et al. **Am J Cardiol** 1996 Oct 1;78(7):801–7

Three–dimensional echocardiographic measurement of left ventricular volumes and ejection fraction using a multiplane transesophageal probe in patients. Hozumi T, et al. **Am J Cardiol** 1996 Nov 1;78(9):1077–80

Doppler indexes of left ventricular filling after exercise in 50–year–old healthy persons. Kangro T, et al.
Am J Cardiol 1997 Jun 1;79(11):1507–11

Midventricular diastolic pulse Doppler flow velocity profiles in the normal and abnormal left ventricle. Sniderman AD, et al. **Am J Cardiol** 1997 Aug 15;80(4):498–505

Age–associated changes in left ventricular outflow tract geometry in normal subjects. Swinne CJ, et al.
Am J Cardiol 1996 Nov 1;78(9):1070–3

Intracardiac versus transthoracic echocardiographic imaging of translation and rotation of left ventricular center of cavity area in dogs. Vandenberg BF, et al.
Am J Cardiol 1997 Aug 15;80(4):535–6

Blood pressure levels and variability, smoking, and left ventricular structure in normotension and in borderline and mild hypertension. Majahalme S, et al. **Am J Hypertens** 1996 Nov;9(11):1110–8

Cardiac structure and exercise blood pressure in urban and rural Canadian men of Icelandic descent. Naimark BJ, et al. **Am J Hypertens** 1996 Nov;9(11):1104–9

Carotid artery and left ventricular structural relationship in asymptomatic men at risk for cardiovascular disease. Linhart A, et al. **Atherosclerosis** 1996 Nov 15;127(1):103–12

Long–term changes in left ventricular mass, chamber size and function after valve replacement in patients with severe aortic stenosis and depressed ejection fraction. Pelà G, et al. **Cardiology** 1997 Jul–Aug;88(4):315–22

The vital role of papillary muscles in mitral and ventricular function: echocardiographic insights [letter; comment] Cheng TO. **Clin Cardiol** 1997 May;20(5):506. Comment on: Clin Cardiol 1997 Feb;20(2):93–8.

The vital role of papillary muscles in mitral and ventricular function: echocardiographic insights [see comments] Madu EC, et al. **Clin Cardiol** 1997 Feb;20(2):93–8 (30 ref.). Comment in: Clin Cardiol 1997 May;20(5):506.

Reduction of left ventricular spontaneous echo contrast in cardiomyopathy by acute inotropic intervention or aggressive therapy. Patel VG, et al. **Clin Cardiol** 1996 Feb; 19(2):105–9

Automated contour detection and acoustic quantification. Bosch JG, et al. **Eur Heart J** 1995 Oct;16 Suppl J:35–41 (12 ref.)

Echocardiographic right and left ventricular measurements in male elite endurance athletes. Henriksen E, et al.
Eur Heart J 1996 Jul;17(7):1121–8

The apical long–axis rather than the two–chamber view should be used in combination with the four–chamber view for accurate assessment of left ventricular volumes and function. Nosir YF, et al. **Eur Heart J** 1997 Jul; 18(7):1175–85

Unexpected complication of intra–aortic balloon counterpulsation via the ascending aorta: balloon migration. Santini F, et al. **Eur J Cardiothorac Surg** 1997 Mar; 11(3):579–81

The importance of transesophageal echocardiography during surgery of the thoracic aorta. Aadahl P, et al.
Eur J Vasc Endovasc Surg 1996 Nov;12(4):401–6

Quantitative three dimensional echocardiography in patients with pulmonary hypertension and compressed left ventricles: comparison with cross sectional echocardiography and magnetic resonance imaging. Apfel HD, et al. **Heart** 1996 Oct;76(4):350–4

Prediction of cardiac structure and function by repeated clinic and ambulatory blood pressure. Fagard RH, et al. **Hypertension** 1997 Jan;29(1 Pt 1):22–9

Regional myocardial shape alterations in patients with anterior myocardial infarction. Baur LH, et al.
Int J Card Imaging 1996 Jun;12(2):89–96

Combined use of contrast–enhanced 2–dimensional and color Doppler echocardiography for improved left ventricular endocardial border delineation using Levovist, a new venous echocardiographic contrast agent. Firschke C, et al. **Int J Card Imaging** 1997 Apr;13(2):137–44

Echocardiographic evaluation of cardiac function in paediatric oncology patients treated with or without anthracycline. Sung RY, et al. **Int J Cardiol** 1997 Aug 8; 60(3):239–48

Left ventricular systolic and diastolic function in septic shock. Poelaert J, et al. **Intensive Care Med** 1997 May; 23(5):553–60

Freehand three–dimensional echocardiography for measurement of left ventricular mass: in vivo anatomic validation using explanted human hearts. Gopal AS, et al. **J Am Coll Cardiol** 1997 Sep;30(3):802–10

Prediction of mortality risk by different methods of indexation for left ventricular mass [see comments] Liao Y, et al. **J Am Coll Cardiol** 1997 Mar 1;29(3):641–7. Comment in: J Am Coll Cardiol 1997 Mar 1;29(3):648–50.

Optimizing albunex in the left ventricle: an analysis of the technical parameters of four ultrasound systems in canines and humans. Block RJ, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec;9(6):787–94

Tomographic left ventricular volume determination in the presence of aneurysm by three–dimensional echocardiographic imaging. I: Asymmetric model hearts. Buck T, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug; 9(4):488–500

Reduced forward output states affect the left ventricular opacification of intravenously administered Albunex. Gandhok NK, et al. **J Am Soc Echocardiogr** 1997 Jan–Feb; 10(1):25–30

Echocardiographic demonstration of coronary sinus diverticula in patients with Wolff–Parkinson–White syndrome. Hamilton K, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):337–43

Determination of left ventricular mass and circumferential wall thickness by three–dimensional reconstruction: in vitro validation of a new method that uses a multiplane transesophageal transducer. Kühl HP, et al.
J Am Soc Echocardiogr 1997 Mar;10(2):107–19

Assessment of left ventricular wall motion abnormalities with the use of color kinesis: a valuable visual and training aid. Lau YS, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug; 10(6):665–72

Quantitative echocardiographic analysis of retained intracardiac air in pooled form: an experimental study. Orihashi K, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug; 9(4):567–72

Acute limb ischemia and heparin–induced thrombocytopenia: the value of echocardiography in eliminating a cardiac source of arterial emboli. Vignon P, et al.
J Am Soc Echocardiogr 1996 May–Jun;9(3):344–7

Calculation of left ventricular mass in man—a comment. Wikstrand J. **J Hypertens** 1997 Aug;15(8):811–3

Percutaneous removal of a fully expanded Wallstent from the right ventricle with transesophageal echocardiography guidance. Hartnell GG, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):371–4

Allometric scaling of left ventricular mass by body dimensions in males and females. Batterham AM, et al.
Med Sci Sports Exerc 1997 Feb;29(2):181–6

Pulsed Doppler echocardiographic assessment of changes in pulmonary artery pressure during oxygen breathing. Hamabe S, et al. **Respiration** 1996;63(1):35–41

Right–ventricular fibroma presenting as tricuspid stenosis—a case report. Bapat VN, et al. **Thorac Cardiovasc Surg** 1996 Jun;44(3):152–4

Verification of cardiac doppler tissue images using grey–scale M–mode images. Fleming AD, et al.
Ultrasound Med Biol 1996;22(5):573–81

Assessment of wall velocity gradient imaging using a test phantom. Nowicki A, et al. **Ultrasound Med Biol** 1996; 22(9):1255–60

[Automatic assessment of left ventricular cavity area by the automated contour tracking method] Yagi T, et al.
J Cardiol 1996 Dec;28(6):345–8 (Eng. Abstr.) **(Jpn)**

ULTRASTRUCTURE

Transverse–axial tubular system in guinea pig ventricular cardiomyocyte: 3D reconstruction, quantification and its possible role in K+ accumulation–depletion phenomenon in single cells. Amsellem J, et al. **Biol Cell** 1995;85(1):43–54

[Changes in myocardial ultrastructure in diphtheria intoxication] Frolov VA, et al. **Patol Fiziol Eksp Ter** 1996 Apr–Jun;(2):11–5 (Eng. Abstr.) **(Rus)**

HEART VENTRICLE, ARTIFICIAL see **HEART–ASSIST DEVICES**

HEART VOLUME see **CARDIAC VOLUME**

HEARTBURN

DRUG THERAPY

Double–blind, placebo–controlled study of ranitidine for gastroesophageal reflux symptoms during pregnancy. Larson JD, et al. **Obstet Gynecol** 1997 Jul;90(1):83–7

EPIDEMIOLOGY

Indigestion and heartburn: a descriptive study of prevalence in persons seeking care from chiropractors. Bryner P, et al. **J Manipulative Physiol Ther** 1996 Jun;19(5):317–23

ETIOLOGY

Excess adipose and heartburn. Clements WD, et al. **Postgrad Med J** 1997 Jun;73(860):369–71

PREVENTION & CONTROL

Prevention of heartburn relapse by low-dose famotidine: a test meal model for duration of symptom control. Mann SG, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):121–7

A double-blind, placebo-controlled study of the effectiveness and safety of nizatidine in the prevention of postprandial heartburn. Spiegel JE, et al. **Arch Intern Med** 1997 Jul 28; 157(14):1594–9

PSYCHOLOGY

Health care seeking by heartburn sufferers is associated with psychosocial factors. Johnston BT, et al. **Am J Gastroenterol** 1996 Dec;91(12):2500–4

THERAPY

Health care seeking by heartburn sufferers is associated with psychosocial factors. Johnston BT, et al. **Am J Gastroenterol** 1996 Dec;91(12):2500–4

HEARTWATER DISEASE

Heartwater in sheep and goats: a review. Yunker CE. **Onderstepoort J Vet Res** 1996 Jun;63(2):159–70

DIAGNOSIS

Development and evaluation of a recombinant antigen, monoclonal antibody-based competitive ELISA for heartwater serodiagnosis. Katz JB, et al. **J Vet Diagn Invest** 1997 Apr;9(2):130–5

Serological survey of heartwater relative to the distribution of the vector Amblyomma variegatum and other tick species in north Cameroon. Awa DN. **Vet Parasitol** 1997 Jan;68(1–2):165–73

EPIDEMIOLOGY

Serological survey of heartwater relative to the distribution of the vector Amblyomma variegatum and other tick species in north Cameroon. Awa DN. **Vet Parasitol** 1997 Jan;68(1–2):165–73

IMMUNOLOGY

Neutralization of bovine concanavalin-A T cell supernatant-mediated anti-Cowdria ruminantium activity with antibodies specific to interferon gamma but not to tumor necrosis factor. Mahan SM, et al. **Parasite Immunol** 1996 Jun;18(6):317–24

MICROBIOLOGY

Different organisms associated with heartwater as shown by analysis of 16S ribosomal RNA gene sequences. Allsopp M, et al. **Vet Parasitol** 1997 Aug;71(4):283–300

PREVENTION & CONTROL

Analysis of T-cell responses in cattle immunized against heartwater by vaccination with killed elementary bodies of Cowdria ruminantium. Totté P, et al. **Infect Immun** 1997 Jan;65(1):236–41

Neutralization of bovine concanavalin-A T cell supernatant-mediated anti-Cowdria ruminantium activity with antibodies specific to interferon gamma but not to tumor necrosis factor. Mahan SM, et al. **Parasite Immunol** 1996 Jun;18(6):317–24

Heartwater in Ghana: implications for control of ticks. Bell-Sakyi L, et al. **Trop Anim Health Prod** 1996 May;28(2 Suppl):59S–64S; discussion 74S–86S

The control of heartwater in west Africa—present and future. Sumption KJ. **Trop Anim Health Prod** 1996 May;28(2 Suppl):65S–73S (20 ref.)

Comparative efficacy of Freund's and Montanide ISA50 adjuvants for the immunisation of goats against heartwater with inactivated Cowdria ruminantium. Martinez D, et al. **Vet Parasitol** 1996 Dec 31;67(3–4):175–84

TRANSMISSION

Abortion in a heifer associated with the intra-uterine transmission of Cowdria ruminantium-like organisms following heartwater vaccination. van Halderen A, et al. **J S Afr Vet Assoc** 1996 Sep;67(3):158–60

Isolation of the causative agent of heartwater (Cowdria ruminantium) from three Amblyomma species in eight Districts of Kenya. Ngumi PN, et al. **Vet Rec** 1997 Jan 4;140(1):13–6

HEARTWORM DISEASE see **DIROFILARIASIS**

HEAT

consider also terms at THERM-

see related
CALORIMETRY
DESERT CLIMATE
HYPERTHERMIA, INDUCED
REWARMING

TROPICAL CLIMATE

Massive autoclaved allografts and autografts for limb salvage surgery. A 1–8 year follow-up of 23 patients. Asada N, et al. **Acta Orthop Scand** 1997 Aug;68(4):392–5

Reactivity of skin blood flow and heart rate to thermal stimulation in infants during the first postnatal days and after a two-month follow-up. Jahnukainen T, et al. **Acta Paediatr** 1996 Jun;85(6):733–8

Reactivity of skin blood flow and heart rate to external thermal stimulation in anencephaly. Jahnukainen T, et al. **Acta Paediatr** 1997 Apr;86(4):426–7

Respiratory pattern of newborn infants exposed to heat stress [letter; comment] Sulyok E. **Acta Paediatr** 1996 Dec; 85(12):1516–7. Comment on: Acta Paediatr 1996 Apr;85(4):467–70.

An evaluation of the role of skin temperature during heat adaptation. Regan JM, et al. **Acta Physiol Scand** 1996 Dec; 158(4):365–75

Thermal processing of foods, a retrospective, Part I: Uncertainties in thermal processing and statistical analysis. Ramesh MN, et al. **Adv Appl Microbiol** 1997;44:287–314 (90 ref.)

Thermal processing of foods, a retrospective, Part II: On-line methods for ensuring commercial sterility. Ramesh MN, et al. **Adv Appl Microbiol** 1997;44:315–45 (60 ref.)

Effect of thermal processing on the stability of fumonisins. Jackson LS, et al. **Adv Exp Med Biol** 1996;392:345–53 (38 ref.)

Analysis, heat stability and physiological effects of saponins from oats. Onning G, et al. **Adv Exp Med Biol** 1996; 405:365–75 (49 ref.)

Pressure effects on enzyme activity and stability at high temperatures. Michels PC, et al. **Adv Protein Chem** 1996; 48:341–76 (120 ref.)

Exposure of coke-oven workers to polycyclic aromatic hydrocarbons based on biological monitoring results. Mielyńska D, et al. **Am Ind Hyg Assoc J** 1997 Sep; 58(9):661–6

Heat stress ameliorates ATP depletion-induced sublethal injury in mouse proximal tubule cells. Borkan SC, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F347–55

Calcium homeostasis in cardiomyocytes isolated from heat-shocked rats. Cornelussen RN, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H1938–46

Thermal modulation of channel catfish intestinal dimensions, BBM fluidity, and glucose transport. Houpe KL, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1037–43

Role of nitrosyl factors in the hemodynamic adjustments to heat stress in the rat. Kregel KC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1537–43

Chronic heat improves mechanical and metabolic response of trained rat heart on ischemia and reperfusion. Levy E, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2085–94

Induction of heat shock protein 70 protects intestinal epithelial IEC-18 cells from oxidant and thermal injury. Musch MW, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C429–36

Modulation of baroreflex sensitivity and spectral power of blood pressure by heat stress and aging. Stauss HM, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H776–84

The heat-shock response attenuates lipopolysaccharide-mediated apoptosis in cultured sheep pulmonary artery endothelial cells. Wong HR, et al. **Am J Respir Cell Mol Biol** 1996 Dec;15(6):745–51

The effect of thermal heating on the length and histologic properties of the glenohumeral joint capsule. Hayashi K, et al. **Am J Sports Med** 1997 Jan-Feb;25(1):107–12

Effects of thermal environment on response to acute peripheral lipopolysaccharide challenge exposure in neonatal pigs. Klir JJ, et al. **Am J Vet Res** 1997 Apr; 58(4):364–9

The effect of a heat and moisture exchanger on humidity in a low-flow anaesthesia system. Henriksson BA, et al. **Anaesthesia** 1997 Feb;52(2):144–9

Biomarkers in hydrolysed urine, plasma and erythrocytes among workers exposed to thermal degradation products from toluene diisocyanate foam. Lind P, et al. **Analyst** 1997 Jan;122(1):51–6

Reliability of transcutaneous oximeter electrode heating power during exercise in patients with intermittent claudication. Gardner AW. **Angiology** 1997 Mar; 48(3):229–35

Seasonal and acute heat stress effects on steroid production by dominant follicles in cows. Wolfenson D, et al. **Anim Reprod Sci** 1997 May;47(1–2):9–19

High pressure and temperature. How to deactivate enzymes in two different ways. Cavaille D, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:212–7

The effect of hyperthermia on intracellular sodium concentrations of isolated human cells. Gaffin SL, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:637–9

Telemetry augments the validity of the rat as a model for heat acclimation. Matthew CB. **Ann N Y Acad Sci** 1997 Mar 15;813:233–8

The effect of hyperthermia on PGE2 production by primary brain culture after exposure to LPS. Shemi D, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:310–3

Warmed local anesthetic reduces pain of infiltration. Fialkov JA, et al. **Ann Plast Surg** 1996 Jan;36(1):11–3

Glutaraldehyde [letter] Ball CK. **AORN J** 1996 Jan; 63(1):22–5

Purification and characterization of thermostable D-hydantoinase from thermophilic Bacillus stearothermophilus SD-1. Lee SG, et al. **Appl Biochem Biotechnol** 1997 Feb-Mar;62(2–3):251–66

Tailing of thermal inactivation curve of Aspergillus niger spores. Fujikawa H, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3745–9

Physiological responses of men and women during exercise in hot environments with equivalent WBGT. Keatisuwan W, et al. **Appl Human Sci** 1996 Nov;15(6):249–58

Elucidating mechanisms of thermostabilization of poliovirus by D2O and MgCl2. Chen CH, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):108–16

MTHFR thermolabile genotype frequencies and longevity in Northern Ireland [letter] Harmon DL, et al. **Atherosclerosis** 1997 May;131(1):137–8

Stress-induced cell surface expression and antigenic alteration of the Ro/SSA autoantigen. Igarashi T, et al. **Autoimmunity** 1995;22(1):33–42

Destruction of Salmonella enteritidis in poultry feed by combination of heat and propionic acid. Matlho G, et al. **Avian Dis** 1997 Jan-Mar;41(1):58–61

Granisetron shows no pro-arrhythmic effect in normal subjects during or after exercise in a hot environment. Gray GW, et al. **Aviat Space Environ Med** 1996 Aug;67(8):759–61

Mental workload in heat: toward a framework for analyses of stress states. Razmjou S. **Aviat Space Environ Med** 1996 Jun;67(6):530–8

Refolding of SDS- and thermally denatured MM-creatine kinase using cyclodextrins. Couthon F, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):854–60

Translational control during recovery from heat shock in the absence of heat shock proteins. Gallie DR, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):462–7

Effect of heat-induced structural perturbation of secondary and tertiary structures on the chaperone activity of alpha-crystallin. Lee JS, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):277–82

A possible mechanism for hyperthermic radiosensitization mediated through hyperthermic lability of Ku subunits in DNA-dependent protein kinase. Matsumoto Y, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):568–72

Enhancement of superoxide production and protection against heat shock by HSP27 in fibroblasts. Souren JE, et al. **Biochem Biophys Res Commun** 1996 Oct 23; 227(3):816–21

Heat-treated myosin does not bind ATPase—inhibiting antibodies. Gröschel-Stewart U, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):611–9

Thermal denaturation of glutathione reductase from cyanobacterium Spirulina maxima. Rojo-Domínguez A, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):631–9

Effects of ubiquinone enriched diet on deterioration of mitochondrial respiratory function caused by fried beef derived mutagenic factor in rats. Sugiyama S, et al. **Biochem Mol Biol Int** 1996 Oct;40(2):305–14

Protein involvement in thermally induced structural transitions of pig erythrocyte ghosts. Zhadan GG, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):11–20

Kinetic evidence for peptide-induced oligomerization of the molecular chaperone DnaK at heat shock temperatures. Farr CD, et al. **Biochemistry** 1997 Sep 2;36(35):10793–800

Adipocyte fatty acid-binding protein: interaction with phospholipid membranes and thermal stability studied by FTIR spectroscopy. Gericke A, et al. **Biochemistry** 1997 Jul 8;36(27):8311–7

Preferential solvation changes upon lysozyme heat denaturation in mixed solvents. Kovrigin EL, et al. **Biochemistry** 1997 Jul 29;36(30):9195–9

Involvement of metallothioneins in regulation of macrophage activity after combined radiation and thermal injury. Khlopovskaya EI, et al. **Biochemistry (Mosc)** 1997 Mar; 62(3):294–6

Regulation of protein turnover by glutamine in heat-shocked skeletal myotubes. Zhou X, et al. **Biochim Biophys Acta** 1997 Jun 27;1357(2):234–42

Downregulation of c-myc expression after heat shock in human B-cell lines is independent of 5' mRNA sequences. Wennborg A, et al. **Biol Chem Hoppe Seyler** 1995 Nov; 376(11):671–80

Elevated temperature increases heat shock protein 70 synthesis in bovine two-cell embryos and compromises function of maturing oocytes. Edwards JL, et al. **Biol Reprod** 1996 Aug;55(2):341–6

Heat shock response, heat shock transcription factor and cell aging. Lee YK, et al. **Biol Signals** 1996 May-Jun; 5(3):180–91

Inactivation of hepatitis A and other enteroviruses during heat treatment (pasteurization). Nissen E, et al. **Biologicals** 1996 Dec;24(4):339–41

The effect of thermal treatment on sterility, molecular and mechanical properties of various polylactides. I. Poly(L-lactide). Gogolewski S, et al. **Biomaterials** 1996 Mar;17(5):523–8

Presence of antibodies to heat stress proteins and its possible significance in workers exposed to high temperature and carbon monoxide. Wu TC, et al. **Biomed Environ Sci** 1996 Dec;9(4):370–9

Preparation and characterization of double layered coating composed of hydroxyapatite and perovskite by thermal decomposition. Zhou P, et al. **Biomed Mater Eng** 1997; 7(1):67–81

Thermal denaturation of proteins for SDS-PAGE analysis

by microwave irradiation. Horscroft NJ, et al. **Biotechniques** 1997 Feb;22(2):224–6

Impact of terminal heat sterilization on the quality of peritoneal dialysis solutions. Martis L, et al. **Blood Purif** 1997;15(1):54–60

Heterophil/lymphocyte ratio as a selection criterion for heat resistance in domestic fowls. al-Murrani WK, et al. **Br Poult Sci** 1997 May;38(2):159–63

Effects of heat production attributable to forced walking on thermoregulatory physiological responses of chickens in a warm environment. Zhou W, et al. **Br Poult Sci** 1996 Sep;37(4):829–40

Effects of early heat exposure on thermoregulatory responses and blood viscosity of broilers prior to marketing. Zhou WT, et al. **Br Poult Sci** 1997 Jul;38(3):301–6

A functional medial preoptic nucleus (MPO) is required for scrotal thermal stimuli to alter the neuronal activity of thermoresponsive ventromedial hypothalamic (VMH) neurons. Li Q, et al. **Brain Res** 1996 Apr 15;716(1–2):134–40

Low but not high rate noxious radiant skin heating evokes a capsaicin-sensitive increase in spinal cord dorsal horn release of substance P. Zachariou V, et al. **Brain Res** 1997 Mar 28;752(1–2):143–50

Hematological effects of radiant heat-induced whole body hyperthermia on dogs. Woods JP, et al. **Can J Vet Res** 1996 Jan;60(1):75–8

Combating hypothermia, including recommendations for the use of oat bags. Dyson D, et al. **Can Vet J** 1997 Aug; 38(8):517–8

Heat inactivation of Ku autoantigen: possible role in hyperthermic radiosensitization. Burgman P, et al. **Cancer Res** 1997 Jul 15;57(14):2847–50

Metabolite changes associated with heat shocked avian fibroblast mitochondria. Schlesinger MJ, et al. **Cell Stress Chaperones** 1997 Mar;2(1):25–30

In vitro effect of hyperthermia on chemoenhancement and uptake of cisplatin in human pharyngeal carcinoma KB cells. Ohtsubo T, et al. **Chemotherapy** 1997 Jan–Feb; 43(1):43–50

Phylogenetic perspective on microbial life in hydrothermal ecosystems, past and present. Barns SM, et al. **Ciba Found Symp** 1996;202:24–32; discussion 32–9

Stable light isotope biogeochemistry of hydrothermal systems. Des Marais DJ. **Ciba Found Symp** 1996;202:83–94; discussion 94–8 (41 ref.)

Chemical and physical context for life in terrestrial hydrothermal systems: chemical reactors for the early development of life and hydrothermal ecosystems. Henley RW. **Ciba Found Symp** 1996;202:61–76; discussion 76–82 (40 ref.)

The role of remote sensing in finding hydrothermal mineral deposits on earth. Huntington JF. **Ciba Found Symp** 1996; 202:214–31; discussion 231–5 (19 ref.)

High temperature ecosystems and their chemical interactions with their environment. Pentecost A. **Ciba Found Symp** 1996;202:99–108; discussion 108–11 (40 ref.)

Hydrothermal systems as environments for the emergence of life. Shock EL. **Ciba Found Symp** 1996;202:40–52; discussion 52–60 (42 ref.)

Hyperthermophiles in the history of life. Stetter KO. **Ciba Found Symp** 1996;202:1–10; discussion 11–8 (19 ref.)

The Rhynie cherts: an early Devonian ecosystem preserved by hydrothermal activity. Trewin NH. **Ciba Found Symp** 1996;202:131–45; discussion 145–9

Ancient hydrothermal ecosystems on earth: a new palaeobiological frontier. Walter MR. **Ciba Found Symp** 1996;202:112–27; discussion 127–30 (78 ref.)

Stimulation of early eosinophil progenitors by a heat stable alveolar macrophage product from ovalbumin-sensitized and non-sensitized guinea pigs. Elsas MI, et al. **Clin Exp Allergy** 1997 Feb;27(2):208–17

Heat shock-enhanced T cell apoptosis with heat shock protein 70 on T cell surface in multicentric Castleman's disease. Ishiyama T, et al. **Clin Exp Immunol** 1996 Nov; 106(2):351–6

Collagen shortening. An experimental approach with heat. Vangsness CT Jr, et al. **Clin Orthop** 1997 Apr;(337):267–71

Exposure to high ambient temperature increases absorption and plasma concentrations of transdermal nicotine. Vanakoski J, et al. **Clin Pharmacol Ther** 1996 Sep; 60(3):308–15

Ankle to arm index response to exercise and heat stress in healthy subjects. Desvaux B, et al. **Clin Physiol** 1996 Jan; 16(1):1–7

Lactation and pregnancy effects on blood flow to mammary and reproductive systems in heat-stressed rabbits. Lublin A, et al. **Comp Biochem Physiol A Physiol** 1996 Dec; 115(4):277–85

Stress response of lysosomal cysteine proteinases in rat C6 glioma cells. Xu C, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):169–78

Thermal stabilization of collagen fibers by calcification. Kronick PL, et al. **Connect Tissue Res** 1996;33(4):275–82

PRK and collagen denaturation [letter] Klyce SD, et al. **Cornea** 1997 Sep;16(5):598–9

Heat transfer and lethality considerations in aseptic processing of liquid/particle mixtures: a review. Ramaswamy HS, et al. **Crit Rev Food Sci Nutr** 1997 Apr; 37(3):253–86 (163 ref.)

Thermal unfolding of beta-lactoglobulin, alpha-lactalbumin, and bovine serum albumin. A thermodynamic approach. Relkin P. **Crit Rev Food Sci Nutr** 1996 Jul;36(6):565–601 (180 ref.)

The stress-activated protein kinase pathway mediates cell death following injury induced by cis-platinum, UV irradiation or heat. Zanke BW, et al. **Curr Biol** 1996 May 1;6(5):606–13

Heat-induced conformational change and increased chaperone activity of lens alpha-crystallin. Das BK, et al. **Curr Eye Res** 1997 Apr;16(4):303–9

Distinct stress-inducible and developmentally regulated heat shock transcription factors in Xenopus oocytes. Gordon S, et al. **Dev Biol** 1997 Jan 1;181(1):47–63

The replacement of water with deuterium oxide significantly improves the thermal stability of the oral poliovirus vaccine. Crainic R, et al. **Dev Biol Stand** 1996;87:161–6

Thermostability of poliovirus and measles vaccines. Melnick JL. **Dev Biol Stand** 1996;87:155–60 (20 ref.)

Stabilising oral poliovaccine at high ambient temperatures. Newman JF, et al. **Dev Biol Stand** 1996;87:103–11 (15 ref.)

Stabilisation of poliovirus with pirodavir. Rombaut B, et al. **Dev Biol Stand** 1996;87:173–80

Induction of Hsp72 and transient nuclear localization of Hsp73 and Hsp72 correlate with the acquisition and loss of thermotolerance in postimplantation rat embryos. Thayer JM, et al. **Dev Dyn** 1997 Feb;208(2):227–43

Nursing behavior in rats is impaired in a small nestbox and with hyperthermic pups. Stern JM, et al. **Dev Psychobiol** 1996 Mar;29(2):101–22

Effects of temperature on the relative toxicities of Cd, Cu, Pb, and Zn to Folsomia candida (Collembola). Sandifer RD, et al. **Ecotoxicol Environ Saf** 1997 Jul;37(2):125–30

Efficiency of separation of DNA mutations by constant denaturant capillary electrophoresis is controlled by the kinetics of DNA melting equilibrium. Khrapko K, et al. **Electrophoresis** 1996 Dec;17(12):1867–74

Determination of denatured serum proteins in the casein fraction of heat-treated milk by capillary zone electrophoresis. Recio I, et al. **Electrophoresis** 1996 Jul; 17(7):1228–33

Physiological measurements in horses after strenuous exercise in hot, humid conditions. Art T, et al. **Equine Vet J Suppl** 1995 Nov;(20):120–4

Adaptations to daily exercise in hot and humid ambient conditions in trained thoroughbred horses. Geor RJ, et al. **Equine Vet J Suppl** 1996 Jul;(22):63–8

Clinical observations made in nonheat acclimated horses performing treadmill exercise in cool (20 degrees C/40%RH), hot, dry (30 degrees C/40%RH) or hot, humid (30 degrees C/80%RH) conditions. Harris PA, et al. **Equine Vet J Suppl** 1995 Nov;(20):78–84

Dietary fat affects heat production and other variables of equine performance, under hot and humid conditions. Kronfeld DS. **Equine Vet J Suppl** 1996 Jul;(22):24–34 (40 ref.)

Physiological responses in nonheat acclimated horses performing treadmill exercise in cool (20 degrees C/40% RH), hot dry (30 degrees C/40% RH) and hot humid (30 degrees C/80% RH) conditions. Marlin DJ, et al. **Equine Vet J Suppl** 1996 Jul;(22):70–84

Preparing for and competing in the heat: the human perspective. Maughan RJ, et al. **Equine Vet J Suppl** 1995 Nov;(20):8–15 (86 ref.)

An index of the environmental thermal load imposed on exercising horses and riders by hot weather conditions. Schroter RC, et al. **Equine Vet J Suppl** 1995 Nov;(20):16–22 (8 ref.)

Use of the Wet Bulb Globe Temperature (WBGT) index to quantify environmental heat loads during three-day-event competitions. Schroter RC, et al. **Equine Vet J Suppl** 1996 Jul;(22):3–6

Acclimation to three different hot climates with equivalent wet bulb globe temperatures. Griefahn B. **Ergonomics** 1997 Feb;40(2):223–34

The influence of exercise intensity on sweating efficiency of the whole body in a mild thermal condition. Kondo N, et al. **Ergonomics** 1996 Feb;39(2):225–31

Protein stability at high temperatures. Cowan DA. **Essays Biochem** 1995;29:193–207 (24 ref.)

Effects of caffeine ingestion on endurance racing in heat and humidity. Cohen BS, et al. **Eur J Appl Physiol** 1996; 73(3–4):358–63

Longitudinal effects of age on heat-activated sweat gland density and output in healthy active older men. Inoue Y. **Eur J Appl Physiol** 1996;74(1–2):72–7

Effects of different carbohydrate-electrolyte beverages on the appearance of ingested deuterium in body fluids during moderate exercise by humans in the heat. Koulmann N, et al. **Eur J Appl Physiol** 1997;75(6):525–31

Plasma arginine vasopressin, atrial natriuretic peptide and brain natriuretic peptide responses to long-term field training in the heat: effects of fluid ingestion and acclimatization. Mudambo KS, et al. **Eur J Appl Physiol** 1997;75(3):219–25

Effects of heat and intermittent exercise on leukocyte and sub-population cell counts. Severs Y, et al. **Eur J Appl Physiol** 1996;74(3):234–45

The role of the 90-kDa heat-shock protein and its associated cohorts in stabilizing the heme-regulated eIF-2alpha kinase in reticulocyte lysates during heat stress. Xu Z, et al. **Eur J Biochem** 1997 Jun 1;246(2):461–70

Effects of heat exposure in a Finnish sauna on the pharmacokinetics and metabolism of midazolam. Vanakoski J, et al. **Eur J Clin Pharmacol** 1996;51(3–4):335–8

Aging and human heat tolerance. Pandolf KB. **Exp Aging Res** 1997 Jan–Mar;23(1):69–105 (73 ref.)

Influence of skin temperature on heat pain threshold in humans. Pertovaara A, et al. **Exp Brain Res** 1996; 107(3):497–503

Previous heat shock treatment attenuates bicuculline-induced convulsions in rats. Yang RC, et al. **Exp Brain Res** 1996 Feb;108(1):18–22

Induction of experimental autoimmune thyroiditis (EAT) by heat-denaturated thyroglobulin (Tg). Brazillet MP, et al. **Exp Clin Endocrinol Diabetes** 1996;104 Suppl 3:23–5

Heat-aggregated IgG and interleukin-1-beta stimulate manganese superoxide dismutase in mesangial cells. Stephanz GB, et al. **Exp Nephrol** 1996 May–Jun;4(3):151–8

Heat-shock induced protein modifications and modulation of enzyme activities. Bensaude O, et al. **EXS** 1996; 77:199–219 (151 ref.)

Regulation of thermotolerance and ischemic tolerance. Nagata K. **EXS** 1996;77:467–81 (51 ref.)

Warming lignocaine reduces the pain of injection during local anaesthetic eyelid surgery. Bell RW, et al. **Eye** 1996;10 (Pt 5):558–60

Isolation of a cDNA coding for an ubiquitin-conjugating enzyme UBC1 of tomato—the first stress-induced UBC of higher plants. Feussner K, et al. **FEBS Lett** 1997 Jun 9;409(2):211–5

Isolation of the active form of RAC-protein kinase (PKB/Akt) from transfected COS-7 cells treated with heat shock stress and effects of phosphatidylinositol 3,4,5-trisphosphate and phosphatidylinositol 4,5-bisphosphate on its enzyme activity. Matsuzaki H, et al. **FEBS Lett** 1996 Nov 4;396(2–3):305–8

Melanization affects susceptibility of Cryptococcus neoformans to heat and cold. Rosas AL, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):265–72

The effect of azodicarbonamide concentrations on ethyl carbamate concentrations in bread and toast. Dennis MJ, et al. **Food Addit Contam** 1997 Jan;14(1):95–100

The effect of cooking on veterinary drug residues in food; 5. Oxfendazole. Rose MD, et al. **Food Addit Contam** 1997 Jan;14(1):15–26

Fractures of the base of the skull in charred bodies--post-mortem heat injuries or signs of mechanical traumatisation? Bohnert M, et al. **Forensic Sci Int** 1997 May 23;87(1):55–62

The relationship between yield and the antioxidant defense system in tomatoes grown under heat stress. Rainwater DT, et al. **Free Radic Res** 1996 Nov;25(5):421–35

Effects of cold preservation and rewarming on rat liver cell volume regulation and concentrative amino acid uptake. Serrar H, et al. **Gastroenterology** 1997 Apr;112(4):1344–53

Hyperthermia induces heat shock protein expression and protection against cerulein-induced pancreatitis in rats. Wagner AC, et al. **Gastroenterology** 1996 Nov; 111(5):1333–42

The influence of warming on rapid urease test results: a prospective evaluation. Laine L, et al. **Gastrointest Endosc** 1996 Oct;44(4):429–32

Does using a warmer influence the results of rapid urease testing for Helicobacter pylori? [letter; comment] Yousfi MM, et al. **Gastrointest Endosc** 1996 Mar;43(3):260–1. Comment on: Gastrointest Endosc 1996 Mar;43(3):222–4.

Thermal effects in excimer laser trephination of the cornea. Langenbucher A, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S142–8

Water pump failure in SIMS level 1 HotLine fluid warmers. **Health Devices** 1996 Sep;25(9):345–6

Reduction of oxidative stress does not affect recovery of myocardial function: warm continuous versus cold intermittent blood cardioplegia. Biagioli B, et al. **Heart** 1997 May;77(5):465–73

Heat shock response inhibits cytokine-inducible nitric oxide synthase expression in rat hepatocytes. de Vera ME, et al. **Hepatology** 1996 Nov;24(5):1238–45

Effects of inbreeding in three life stages of Drosophila buzzatii after embryos were exposed to a high temperature stress. Dahlgaard J, et al. **Heredity** 1997 Apr;78 (Pt 4):410–6

Reduced pregnancy rates following the transfer of human embryos frozen or thawed in culture media supplemented with normal serum albumin. Warnes GM, et al. **Hum Reprod** 1997 Jul;12(7):1525–30

RF heating of implanted spinal fusion stimulator during magnetic resonance imaging. Chou CK, et al. **IEEE Trans Biomed Eng** 1997 May;44(5):367–73

Kallikrein and salivary secretion in rats during heat exposure. Damas J. **Immunopharmacology** 1996 May;32(1–3):125–7

Molecular inactivation of testicular hyaluronidase in solid state after proton irradiation: a study based on target size, substrate binding and thermodynamic analysis of heat denaturation. Gupta GS, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):266–71

Temperature change in the pulp chamber during application of heat to composite and amalgam cores and its returning time to oral heat. Anil N, et al. **Int Dent J** 1996 Aug; 46(4):362–6

Mortality as a function of temperature. A study in Valencia, Spain, 1991–1993. Ballester F, et al. **Int J Epidemiol** 1997 Jun;26(3):551–61

Mathematically modeling the repair of heat-injured Listeria

monocytogenes as affected by temperature, pH, and salt concentration. Chawla CS, et al. **Int J Food Microbiol** 1996 Jul;30(3):231–42
Luminescent Salmonella strains as real time reporters of growth and recovery from sublethal injury in food. Chen J, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):27–43
Mathematical model for the combined effect of temperature and pH on the thermal resistance of Bacillus stearothermophilus and Clostridium sporogenes spores. Fernández PS, et al. **Int J Food Microbiol** 1996 Sep; 32(1–2):225–33
Characteristics of a multicomponent first-order model for thermal inactivation of microorganisms and enzymes. Fujikawa H, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):263–71
Effect of pH of the recovery medium on the apparent heat resistance of three strains of Bacillus cereus. González I, et al. **Int J Food Microbiol** 1996 Aug;31(1–3):341–7
Thermal destruction of Escherichia coli O157:H7 in beef and chicken: determination of D- and z-values. Juneja VK, et al. **Int J Food Microbiol** 1997 Apr 15;35(3):231–7
Modelling the heat stress and the recovery of bacterial spores. Mafart P, et al. **Int J Food Microbiol** 1997 Jul 22; 37(2–3):131–5
The effect of ethylenediaminetetraacetic acid on heat resistance and recovery of Clostridium sporogenes PA 3679 spores treated in HTST conditions. Silla Santos MH, et al. **Int J Food Microbiol** 1997 Mar 3;34(3):293–305
Functional properties of thermally treated legume flours. Nagmani B, et al. **Int J Food Sci Nutr** 1997 May; 48(3):205–14
Bicarbonate-dependent proton extrusion in Chinese hamster ovary (CHO) cells adapted to growth at pH 6.7. Coss RA, et al. **Int J Hyperthermia** 1997 May–Jun;13(3):325–36
Arrhenius analysis of the thermal response of human colonic adenocarcinoma cells in vitro using the multi-target, single-hit and the linear-quadratic model. Jordan A, et al. **Int J Hyperthermia** 1997 Jan–Feb;13(1):83–8
Brain hyperthermia alters local cerebral glucose utilization: a comparison of hyperthermic agents. Mickley GA, et al. **Int J Hyperthermia** 1997 Jan–Feb;13(1):99–114
Influence of tonicity and chloramphenicol on hyperthermic cytotoxicity and cell permeability under various heating rates. Morozov II, et al. **Int J Hyperthermia** 1997 Jan–Feb; 13(1):49–57
Estimation of cell survival in tumours heated to nonuniform temperature distributions. Rosner GL, et al. **Int J Hyperthermia** 1996 Mar–Apr;12(2):223–39
Heat shock causes protein aggregation and reduced protein solubility at the centrosome and other cytoplasmic locations. Vidair CA, et al. **Int J Hyperthermia** 1996 Sep–Oct;12(5):681–95
Heat-killed Bacillus subtilis inhibits T-cell proliferative response to mitogens and recall antigens. Gao J, et al. **Int J Immunopharmacol** 1996 Dec;18(12):701–6
Heat effects on the repair of DNA double-strand breaks in CHO cells. Dahm-Daphi J, et al. **Int J Radiat Biol** 1997 Aug;72(2):171–9
Resistance to heat radiosensitization and protein damage in thermotolerant and thermoresistant cells. Kampinga HH, et al. **Int J Radiat Biol** 1997 Mar;71(3):315–26
Heat-induced apoptosis and p53 in cultured mammalian cells. Nakano H, et al. **Int J Radiat Biol** 1997 May;71(5):519–29
Transfection of p53-knockout mouse fibroblasts with wild-type p53 increases the thermosensitivity and stimulates apoptosis induced by heat stress. Matsumoto H, et al. **Int J Radiat Oncol Biol Phys** 1997 Aug 1; 39(1):197–203
Effects of hyperhydration on total body water, temperature regulation and performance of elite young soccer players in a warm climate. Rico-Sanz J, et al. **Int J Sports Med** 1996 Feb;17(2):85–91
Hyperthermia and hypoxia increase tolerance of retinal ganglion cells to anoxia and excitotoxicity. Caprioli J, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2376–81
Human and monkey trabecular meshwork accumulate alpha B-crystallin in response to heat shock and oxidative stress. Tamm ER, et al. **Invest Ophthalmol Vis Sci** 1996 Nov; 37(12):2402–13
Field evaluation of heat as an added attractant to traps baited with carbon dioxide and octenol for Aedes taeniorhynchus. Kline DL, et al. **J Am Mosq Control Assoc** 1995 Dec; 11(4):454–6
A thermal heat summation model to predict the duration of the gonotrophic cycle of Culiseta melanura in nature. Mahmood F, et al. **J Am Mosq Control Assoc** 1997 Mar; 13(1):92–4
Effects of heat stress on mouse testicular cells and sperm chromatin structure. Sailer BL, et al. **J Androl** 1997 May–Jun;18(3):294–301
Heat stress causes testicular germ cell apoptosis in adult mice. Yin Y, et al. **J Androl** 1997 Mar–Apr;18(2):159–65
Intravenous vs. oral rehydration: effects on subsequent exercise-heat stress. Castellani JW, et al. **J Appl Physiol** 1997 Mar;82(3):799–806
Differential effects of exercise and heat stress on liver HSP70 accumulation with aging. Kregel KC, et al. **J Appl Physiol** 1996 Feb;80(2):547–51
Augmentation of exercise-induced muscle sympathetic nerve activity during muscle heating. Ray CA, et al. **J Appl Physiol** 1997 Jun;82(6):1719–25
Altered response in cutaneous sympathetic outflow to mental and thermal stimuli in primary palmoplantar hyperhidrosis. Iwase S, et al. **J Auton Nerv Syst** 1997 Jun 6;64(2–3):65–73
Effect of heat stress on muscle sympathetic nerve activity in humans. Niimi Y, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1–2):61–7
Rates of spontaneous mutation in an archaeon from geothermal environments. Jacobs KL, et al. **J Bacteriol** 1997 May;179(10):3298–303
Heat acclimation: cardiovascular response to hot/dry and hot/wet heat loads in rats. Moran D, et al. **J Basic Clin Physiol Pharmacol** 1996;7(4):375–87
Characterization of a thermostable lysine-specific metalloendopeptidase from the fruiting bodies of a basidiomycete, Grifola frondosa. Nonaka T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1014–20
Heat shock-induced DNA relaxation in vitro by DNA gyrase of Escherichia coli in the presence of ATP. Kataoka K, et al. **J Biol Chem** 1996 Oct 4;271(40):24806–10
Synchronized heat flux oscillations in yeast cell populations. Tesunik B, et al. **J Biol Chem** 1996 Oct 4;271(40):24442–8
Differential effect of alpha-tocopherol and ascorbate on oxidative injury induced in immune cells by thermal stress. Franci O, et al. **J Biol Regul Homeost Agents** 1996 Apr–Sep;10(2–3):54–9
Effects of heating with radiofrequency power on myocardial impulse conduction: is radiofrequency ablation exclusively thermally mediated? Simmers TA, et al. **J Cardiovasc Electrophysiol** 1996 Mar;7(3):243–7
Heat shock protein 27 stimulates recovery of RNA and protein synthesis following a heat shock. Carper SW, et al. **J Cell Biochem** 1997 Aug 1;66(2):153–64
Heat shock inhibits pre-rRNA processing at the primary site in vitro and alters the activity of some rRNA binding proteins. Ghoshal K, et al. **J Cell Biochem** 1996 Sep 15; 62(4):506–15
The Hsp70 homologue Lhs1p is involved in a novel function of the yeast endoplasmic reticulum, refolding and stabilization of heat-denatured protein aggregates. Saris N, et al. **J Cell Biol** 1997 May 19;137(4):813–24
Thermotolerance expression in mitotic CHO cells without increased translation of heat shock proteins. Borrelli MJ, et al. **J Cell Physiol** 1996 Dec;169(3):420–8
Distribution of HSP70, protein kinase C, and spectrin is altered in lymphocytes during a fever-like hyperthermia exposure. Di YP, et al. **J Cell Physiol** 1997 Jul;172(1):44–54
Changes of biological reducing activity in rat brain following closed head injury: a cyclic voltammetry study in normal and heat-acclimated rats. Beit-Yannai E, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):273–9
Reversion of thermic-shock effect on ram spermatozoa by adsorption of seminal plasma proteins revealed by partition in aqueous two-phase systems. García-López N, et al. **J Chromatogr B Biomed Appl** 1996 May 17;680(1–2):137–43
Active warming, not passive heat retention, maintains normothermia during combined epidural-general anesthesia for hip and knee arthroplasty. Berti M, et al. **J Clin Anesth** 1997 Sep;9(6):482–6
Heat tolerance of vancomycin resistant Enterococcus faecium. Panagea S, et al. **J Clin Pathol** 1996 Aug; 49(8):687–9
Stability of high-dose morphine chloride injection upon heat sterilization: comparison of UV-spectroscopy and HPLC. Steger PJ, et al. **J Clin Pharm Ther** 1996 Apr;21(2):73–8
Influences of bathing and hot weather on the pharmacokinetics of a new transdermal clonidine, M-5041T. Fujimura A, et al. **J Clin Pharmacol** 1996 Oct; 36(10):892–6
Effect of somatic cell count and stage of lactation on the quality and storage life of ultra high temperature milk. Auldist MJ, et al. **J Dairy Res** 1996 Aug;63(3):377–86
Distribution of proteins in concentrated skim milk reconstituted from low- and high-heat milk powders. Ward BR, et al. **J Dairy Res** 1996 Nov;63(4):643–8
Effects of ruminally inert fat and evaporative cooling on dairy cows in hot environmental temperatures. Chan SC, et al. **J Dairy Sci** 1997 Jun;80(6):1172–8
Protein degradation in response to spontaneous heating in alfalfa hay by in situ and ficin methods. Coblentz WK, et al. **J Dairy Sci** 1997 Apr;80(4):700–13
Particle size of roasted soybeans and the effect on milk production of dairy cows. Dhiman TR, et al. **J Dairy Sci** 1997 Aug;80(8):1722–7
Supplementation of nicotinic acid for lactating Holstein cows under heat stress conditions. Di Costanzo A, et al. **J Dairy Sci** 1997 Jun;80(6):1200–6
Physical treatments affecting the solid fat content of butter fat: thermal treatment of cream and membrane partition of butter oil. Fanni J, et al. **J Dairy Sci** 1996 Aug; 79(8):1460–6
Economic viability of crosses of Bos taurus and Bos indicus for dairying in warm climates. McDowell RE, et al. **J Dairy Sci** 1996 Jul;79(7):1292–303
Composition of colostrum from dairy heifers exposed to high air temperatures during late pregnancy and the early postpartum period. Nardone A, et al. **J Dairy Sci** 1997 May;80(5):838–44
Effects of heat treatment and physical processing of cottonseed on nutrient digestibility and production performance by lactating cows. Pires AV, et al. **J Dairy Sci** 1997 Aug;80(8):1685–94
Effect of gonadotropin-releasing hormone at estrus on subsequent luteal function and fertility in lactating Holsteins during heat stress. Ullah G, et al. **J Dairy Sci** 1996 Nov;79(11):1950–3
Effect of burnout temperature on strength of phosphate-bonded investments. Luk HW, et al. **J Dent** 1997 Mar;25(2):153–60
In vitro comparison between mouse B16 and human melanoma cell lines of the expression of ICAM-1 induced by cytokines and/or hyperthermia. Nakayama J, et al. **J Dermatol** 1997 Jun;24(6):351–60
Warm stethoscope [letter; comment] West RO. **J Fam Pract** 1997 Feb;44(2):214. Comment on: J Fam Pract 1996 Sep;43(3):218–20.
The effect of hyperosmolality on the rate of heat production of quiescent trabeculae isolated from the rat heart. Loiselle DS, et al. **J Gen Physiol** 1996 Dec;108(6):497–514
Heat-induced longevity extension in Drosophila. I. Heat treatment, mortality, and thermotolerance. Khazaeli AA, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan;52(1):B48–52
MRI of cervical fixation devices: sensation of heating caused by vibration of metallic components [letter] Hartwell RC, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):771–2
The crystal structure of an Fe-superoxide dismutase from the hyperthermophile Aquifex pyrophilus at 1.9 A resolution: structural basis for thermostability. Lim JH, et al. **J Mol Biol** 1997 Jul 11;270(2):259–74
Defective herpes simplex virus vectors expressing the rat brain stress-inducible heat shock protein 72 protect cultured neurons from severe heat shock. Fink SL, et al. **J Neurochem** 1997 Mar;68(3):961–9
Heat shock induces rapid dephosphorylation of tau in both female and male rats followed by hyperphosphorylation only in female rats: implications for Alzheimer's disease. Papasozomenos SC. **J Neurochem** 1996 Mar;66(3):1140–9
Nerve tissue-specific human glutamate dehydrogenase that is thermolabile and highly regulated by ADP. Shashidharan P, et al. **J Neurochem** 1997 May;68(5):1804–11
Comparison of human cerebral activation pattern during cutaneous warmth, heat pain, and deep cold pain. Casey KL, et al. **J Neurophysiol** 1996 Jul;76(1):571–81
Threshold for detecting temperature changes in a spider thermoreceptor. Ehn R, et al. **J Neurophysiol** 1996 Oct; 76(4):2608–13
EP receptor subtypes implicated in the PGE2-induced sensitization of polymodal receptors in response to bradykinin and heat. Kumazawa T, et al. **J Neurophysiol** 1996 Jun;75(6):2361–8
Anterior parietal cortical response to tactile and skin-heating stimuli applied to the same skin site. Tommerdahl M, et al. **J Neurophysiol** 1996 Jun;75(6):2662–70
Characteristics of temporal summation of second pain sensations elicited by brief contact of glabrous skin by a preheated thermode. Vierck CJ Jr, et al. **J Neurophysiol** 1997 Aug;78(2):992–1002
Comparison of heating of nonliving soft tissue produced by 45 kHz and 1 MHz frequency ultrasound machines. Ward AR, et al. **J Orthop Sports Phys Ther** 1996 Apr; 23(4):258–66
Role of calcium chelation in high-temperature antigen retrieval at different pH values. Morgan JM, et al. **J Pathol** 1997 Jun;182(2):233–7
Exponential heating in drug stability experiment and statistical evaluation of nonisothermal and isothermal prediction. Zhan X, et al. **J Pharm Sci** 1997 Jun; 86(6):709–15
Fluence rate as a determinant of synergistic interaction under simultaneous action of UV light and mild heat in Saccharomyces cerevisiae. Petin VG, et al. **J Photochem Photobiol B** 1997 Apr;38(2–3):123–8
Heat-evoked vasodilatation in human hairy skin: axon reflexes due to low-level activity of nociceptive afferents. Magerl W, et al. **J Physiol (Lond)** 1996 Dec 15;497 (Pt 3):837–48
Regulation of ram scrotal temperature during heat exposure, cold exposure, fever and exercise. Maloney SK, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):421–30
Thermosensitization of murine FM3A cells by transient incubation at low culture temperatures. Hatayama T, et al. **J Radiat Res (Tokyo)** 1995 Dec;36(4):248–57
Communications to the International Conference on Dehydration, Rehydration and Exercise in the Heat. Nottingham, United Kingdom, 1–5 November 1995. **J Sports Sci** 1996 Aug;14(4):347–70
Exercise in the heat: strategies to minimize the adverse effects on performance. Terrados N, et al. **J Sports Sci** 1995 Summer;13 Spec No:S55–62 (49 ref.)
Inhibition of thromboxane A2 activity during warm ischemia of the liver. Shirabe K, et al. **J Surg Res** 1996 Feb 15; 61(1):103–7
Selective survival of a thermostable direct hemolysin-producing Vibrio parahaemolyticus in the alimentary tract of a juvenile estuarine gastropod (Clithon retropictus). Kumazawa NH, et al. **J Vet Med Sci** 1997 Apr;59(4):277–9
Effect of warming of exercising legs on exercise capacity in patients with impaired exercise tolerance. Yamanouchi T, et al. **Jpn Heart J** 1996 Nov;37(6):855–63
Cell-killing efficiency and number of platinum atoms binding to DNA, RNA and protein molecules of HeLa cells treated with combinations of trans-diaminedichloroplatinum(II) and hyperthermia. Akaboshi M, et al. **Jpn J Cancer Res** 1997 May;88(5):506–11
Heat-related mortality among nursing-home patients [letter]

Mackenbach JP, et al. **Lancet** 1997 May 3;349(9061):1297–8

An efficiency comparison of four heat and moisture exchangers used in the laryngectomized patient. Grolman W, et al. **Laryngoscope** 1997 Jun;107(6):814–20

Quantitative measurements of linear birefringence during heating of native collagen. Maitland DJ, et al. **Lasers Surg Med** 1997;20(3):310–8

Identification of novel trans isomers of 20:5n–3 in liver lipids of rats fed a heated oil. Chardigny JM, et al. **Lipids** 1996 Feb;31(2):165–8

MR imaging and cervical fixation devices: evaluation of ferromagnetism, heating, and artifacts at 1.5 Tesla. Shellock FG. **Magn Reson Imaging** 1996;14(9):1093–8

Acclimatization, preconditioning and heat shock proteins. Steinmann CM, et al. **Med Hypotheses** 1996 Oct; 47(4):257–60

Improved running performance in hot humid conditions following whole body precooling. Booth J, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):943–9

Wet bulb globe temperature index and performance in competitive distance runners. McCann DJ, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):955–61

The effects of heat and exercise on sweat iron loss. Waller MF, et al. **Med Sci Sports Exerc** 1996 Feb;28(2):197–203

Involvement of erythrocyte membrane proteins in temperature-induced disturbances of the permeability barrier. Ivanov IT. **Membr Cell Biol** 1997;11(1):45–56

Induction of heat shock proteins and thermotolerance. Piper P. **Methods Mol Biol** 1996;53:313–7 (15 ref.)

HSP25 in isolated perfused rat hearts: localization and response to hyperthermia. Hoch B, et al. **Mol Cell Biochem** 1996 Jul–Aug;160–161:231–9

Heat-inducible promoters for gene therapy [news] Fricker J. **Mol Med Today** 1997 Mar;3(3):94–5

Effect of the deletion of the sigma 32-dependent promoter (P1) of the Escherichia coli topoisomerase I gene on thermotolerance. Qi H, et al. **Mol Microbiol** 1996 Aug; 21(4):703–11

Structural analysis of the subunits of the trehalose-6-phosphate synthase/phosphatase complex in Saccharomyces cerevisiae and their function during heat shock. Reinders A, et al. **Mol Microbiol** 1997 May; 24(4):687–95

High body temperature induces micronuclei in mouse bone marrow. Asanami S, et al. **Mutat Res** 1997 Apr 24; 390(1–2):79–83

Comparison of the effects of high ambient temperature and clonidine on autonomic functions in man. Arya DK, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):376–83

Neuronal differentiation in PC12 cells is accompanied by diminished inducibility of Hsp70 and Hsp60 in response to heat and ethanol. Dwyer DS, et al. **Neurochem Res** 1996 Jun;21(6):659–66

Intradermal recombinant human nerve growth factor induces pressure allodynia and lowered heat-pain threshold in humans. Dyck PJ, et al. **Neurology** 1997 Feb;48(2):501–5

Heat-sensitive myotonia in proximal myotonic myopathy. Sander HW, et al. **Neurology** 1996 Oct;47(4):956–62

Quantitative analysis of cutaneous calcitonin gene-related peptide content in response to acute cutaneous mechanical or thermal stimuli and immobilization-induced stress in rats. Tsuchiya T, et al. **Neuropeptides** 1996 Apr; 30(2):149–57

Analysis of neuronal death in the central nervous system using a new apoptosis model. Okura Y, et al. **Neurosci Res** 1996 Nov;26(3):279–88

Thermal diffusion flowmetry. Carter LP. **Neurosurg Clin N Am** 1996 Oct;7(4):749–54 (17 ref.)

Growth and behavioral changes in mice prenatally exposed to methylmercury and heat. Yin K, et al. **Neurotoxicol Teratol** 1997 Jan–Feb;19(1):65–71

Heat-shock inactivation of the TFIIH-associated kinase and change in the phosphorylation sites on the C-terminal domain of RNA polymerase II. Dubois MF, et al. **Nucleic Acids Res** 1997 Feb 15;25(4):694–700

Cooked food mutagens and breast cancer [editorial] Gaubatz JW. **Nutrition** 1996 Jun;12(6):449–50

Does warming of anesthetic solutions improve analgesia and akinesia in retrobulbar anesthesia? [letter] Hamilton RC. **Ophthalmology** 1997 Oct;104(10):1528–30

Does warming of anesthetic solutions improve analgesia and akinesia in retrobulbar anesthesia? Krause M, et al. **Ophthalmology** 1997 Mar;104(3):429–32

Forced-air warming system for perioperative use in neonates [letter] Komatsu H, et al. **Paediatr Anaesth** 1996;6(5):427–8

Secondary hyperalgesia to mechanical but not heat stimuli following a capsaicin injection in hairy skin. Ali Z, et al. **Pain** 1996 Dec;68(2–3):401–11

The effect of age on A delta- and C-fibre thermal pain perception. Chakour MC, et al. **Pain** 1996 Jan;64(1):143–52

Spatial summation of heat pain: a reassessment. Defrin R, et al. **Pain** 1996 Jul;66(1):23–9

Relationship between thresholds to thermally and to mechanically induced pain in patients with eating disorders and healthy subjects. de Zwaan M, et al. **Pain** 1996 Oct; 67(2–3):511–2

Independent effects of ischaemia and noradrenaline on thermal hyperalgesia in capsaicin-treated skin. Drummond PD. **Pain** 1996 Sep;67(1):129–33

Development of thermal nociception in rats. Falcon M, et al. **Pain** 1996 Sep;67(1):203–8

Enhanced withdrawal responses to heat and mechanical stimuli following intraplantar injection of capsaicin in rats. Gilchrist HD, et al. **Pain** 1996 Sep;67(1):179–88

Prostaglandin E receptor EP3 subtype is involved in thermal hyperalgesia through its actions in the preoptic hypothalamus and the diagonal band of Broca in rats. Hosoi M, et al. **Pain** 1997 Jul;71(3):303–11

Venlafaxine hydrochloride (Effexor) relieves thermal hyperalgesia in rats with an experimental mononeuropathy. Lang E, et al. **Pain** 1996 Nov;68(1):151–5

Selective activation of A-delta and C nociceptive afferents by different parameters of nociceptive heat stimulation: a tool for analysis of central mechanisms of pain [editorial; comment] Price DD. **Pain** 1996 Nov;68(1):1–3. Comment on: Pain 1996 Nov;68(1):133–40.

Nociceptive responses to high and low rates of noxious cutaneous heating are mediated by different nociceptors in the rat: behavioral evidence [see comments] Yeomans DC, et al. **Pain** 1996 Nov;68(1):133–40. Comment in: Pain 1996 Nov;68(1):1–3.

Nociceptive responses to high and low rates of noxious cutaneous heating are mediated by different nociceptors in the rat: electrophysiological evidence. Yeomans DC, et al. **Pain** 1996 Nov;68(1):141–50

Formalin fixation by boiling: is it suitable for the TUNEL staining? [letter] Ichimura E, et al. **Pathol Int** 1995 Dec; 45(12):971–2

Enhancing effect of non-ionic surfactant on the inactivation of lipopolysaccharide by steam-heat treatment I. Bamba T, et al. **PDA J Pharm Sci Technol** 1996 Nov–Dec; 50(6):360–5

Cyclo (His-Pro) modulation of body temperature at hot ambient temperature in the desert rat (Mastomys natalensis). Shukla R, et al. **Peptides** 1997;18(5):689–93

Warm cardiac surgery with continuous blood cardioplegia using a potassium infusion pump. Fried DW, et al. **Perfusion** 1997 Mar;12(1):21–6

Influence of cold and hot conditions on postactivation in human skeletal muscles. Meigal AY, et al. **Pflugers Arch** 1996 May;432(1):121–5

Exposure to high environmental temperature in the sauna does not change plasma indocyanine green (ICG) clearance in healthy subjects. Vanakoski J, et al. **Pharmacol Toxicol** 1996 Feb;78(2):94–8

Synergistic interaction of photodynamic treatment with the sensitizer aluminum phthalocyanine and hyperthermia on loss of clonogenicity of CHO cells. Rasch MH, et al. **Photochem Photobiol** 1996 Sep;64(3):586–93

Ecophysiological adaptations to dry thermal environments measured in two unrestrained Namibian scorpions, Parabuthus villosus (Buthidae) and Opisthophthalmus flavescens (Scorpionidae). Bridges CR, et al. **Physiol Zool** 1997 Mar–Apr;70(2):244–56

On the thermal capacity of a bird's egg warmed by a brood patch. Turner JS. **Physiol Zool** 1997 Jul–Aug;70(4):470–80

Thermotaxis of human trophoblastic cells. Higazi AA, et al. **Placenta** 1996 Nov;17(8):683–7

Effect of cooking on proteinase inhibitors of Dolichos lablab bean (Dolichos lablab perpureus L.). Devaraj VR, et al. **Plant Foods Hum Nutr** 1995 Sep;48(2):107–12

Influence of heat processing of African yam bean seed (Sphenostylis stenocarpa) flour on the growth and organ weights of rats. Onyeike EN, et al. **Plant Foods Hum Nutr** 1995 Sep;48(2):85–93

Enzyme inhibitors in tuber crops and their thermal stability. Prathibha S, et al. **Plant Foods Hum Nutr** 1995 Oct; 48(3):247–57

Heat generation and dissipation in plants: can the alternative oxidative phosphorylation pathway serve a thermoregulatory role in plant tissues other than specialized organs? Breidenbach RW, et al. **Plant Physiol** 1997 Aug; 114(4):1137–40

Improving eggshell quality at high temperatures with dietary sodium bicarbonate. Balnave D, et al. **Poult Sci** 1997 Apr; 76(4):588–93

Effect of high ambient temperature on feed digestibility in broilers. Bonnet S, et al. **Poult Sci** 1997 Jun;76(6):857–63

Bioavailability of digestible lysine in heat-damaged soybean meal for chick growth. Fernandez SR, et al. **Poult Sci** 1996 Feb;75(2):224–31

Group selection for adaptation to multiple-hen cages: production traits during heat and cold exposures. Hester PY, et al. **Poult Sci** 1996 Nov;75(11):1308–14

The effect of thermal processing and enzyme treatments of soybean meal on growth performance, ileal nutrient digestibilities, and chyme characteristics in broiler chicks. Marsman GJ, et al. **Poult Sci** 1997 Jun;76(6):864–72

Water consumption by broilers in high cyclic temperatures: bell versus nipple waterers. May JD, et al. **Poult Sci** 1997 Jul;76(7):944–7

Influence of dietary lysine levels and arginine:lysine ratios on performance of broilers exposed to heat or cold stress during the period of three to six weeks of age. Mendes AA, et al. **Poult Sci** 1997 Mar;76(3):472–81

Comparison between irradiated and thermally pasteurized liquid egg white on functional, physical, and microbiological properties. Wong YC, et al. **Poult Sci** 1996 Jun;75(6):803–8

Comparative evaluation of three commercial broiler stocks in hot versus temperate climates. Yalçin S, et al. **Poult Sci** 1997 Jul;76(7):921–9

Heat-stable and immunoreactive placental alkaline phosphatase in maternal serum from Down's syndrome and trisomy 18 pregnancies. Aitken DA, et al. **Prenat Diagn** 1996 Nov;16(11):1051–4

Synthetic routes to the food carcinogen 2 amino-3,8-dimethylimidazo[4,5-f]quinoxaline (8-MeIQx) and related compounds. Grivas S. **Princess Takamatsu Symp** 1995;23:1–8 (27 ref.)

Quantitative determination of heterocyclic amines in food products. Gross GA, et al. **Princess Takamatsu Symp** 1995; 23:20–9 (23 ref.)

Identification of new mutagenic heterocyclic amines and quantification of known heterocyclic amines. Wakabayashi K, et al. **Princess Takamatsu Symp** 1995;23:39–49 (31 ref.)

Frictional heating of bearing materials tested in a hip joint wear simulator. Lu Z, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):101–8

Mechanism by which garlic (Allium sativum) inhibits cyclooxygenase activity. Effect of raw versus boiled garlic extract on the synthesis of prostanoids. Ali M. **Prostaglandins Leukot Essent Fatty Acids** 1995 Dec; 53(6):397–400

Structural basis for thermostability and identification of potential active site residues for adenylate kinases from the archaeal genus Methanococcus. Haney P, et al. **Proteins** 1997 May;28(1):117–30

Hyperthermia and paraquat-induced G1 arrest in the yeast Saccharomyces cerevisiae is independent of the RAD9 gene. Nunes E, et al. **Radiat Environ Biophys** 1996 Feb; 35(1):55–7

The relationship between thermosensitivity and intracellular pH in cells deficient in Na+/H+ antiport function. Liu FF, et al. **Radiother Oncol** 1996 Jul;40(1):75–83

A human in vitro granuloma model using heat killed Candida albicans cells immobilized on plastic culture wells. Heinemann DE, et al. **Scand J Immunol** 1997 Jun; 45(6):596–604

Antibiotics and increased temperature against Borrelia burgdorferi in vitro. Reisinger E, et al. **Scand J Infect Dis** 1996;28(2):155–7

Illusion reveals pain locus in brain [news] Vogel G. **Science** 1996 Nov 22;274(5291):1301

Heat shock pretreatment prevents hydrogen peroxide injury of pulmonary endothelial cells and macrophages in culture. Wang YR, et al. **Shock** 1996 Aug;6(2):134–41

Bacterial ingestion, tumor necrosis factor-alpha, and heat induce programmed cell death in activated neutrophils. William R, et al. **Shock** 1996 Jan;5(1):47–51

Interactions of physical training and heat acclimation. The thermophysiology of exercising in a hot climate. Aoyagi Y, et al. **Sports Med** 1997 Mar;23(3):173–210 (311 ref.)

Clothing and exercise. II. Influence of clothing during exercise/work in environmental extremes. Pascoe DD, et al. **Sports Med** 1994 Aug;18(2):94–108 (92 ref.)

Heat treatment of human serum to inactivate HIV does not alter protein binding of selected drugs. Mosley AK, et al. **Ther Drug Monit** 1997 Aug;19(4):477–9

Commercial antithrombin concentrate contains inactive L-forms of antithrombin. Chang WS, et al. **Thromb Haemost** 1997 Feb;77(2):323–8

Inactivation of hepatitis A virus in plasma products by vapor heating. Barrett PN, et al. **Transfusion** 1997 Feb; 37(2):215–20

Kinetics of cellular viability in warm versus cold ischemia conditions of kidney preservation. A biometric study. Savioz D, et al. **Transplantation** 1996 Aug 15;62(3):414–7

Thermotolerance attenuates ischemia-reperfusion induced renal injury and increased expression of ICAM-1. Stokes KY, et al. **Transplantation** 1996 Oct 27;62(8):1143–9

Influence of wet suit wear on anxiety responses to underwater exercise. Koltyn KF, et al. **Undersea Hyperb Med** 1997; 24(1):23–8

Bovine immunodeficiency-like virus: inactivation in milk by pasteurisation. Venables C, et al. **Vet Rec** 1997 Mar 15; 140(11):275–7

Focal heat stimulation for the determination of the minimum alveolar concentration of halothane in the rabbit. Sobair AT, et al. **Vet Res Commun** 1997 Apr;21(3):149–59

Liquid pasteurization of an immunoglobulin preparation without stabilizer: effects on its biological and biochemical properties. Bridonneau P, et al. **Vox Sang** 1996;70(4):203–9

Heating lyophilised factor VIII does not alter its recognition by specific antibodies. Gilles JG, et al. **Vox Sang** 1997; 73(1):16–23

Liquid pasteurization of immunoglobulins without stabilizer [letter] Magnin AA, et al. **Vox Sang** 1997;72(4):252–3

Effect of autoclaving on dietary fibre content of beet root (Beta vulgaris). Evaluation by different methods. Villanueva MJ, et al. **Z Lebensm Unters Forsch** 1996 Oct; 203(4):345–50

Occurrence of thermotolerant Campylobacter species in domestic and wild monkeys from Peru. Tresierra-Ayala A, et al. **Zentralbl Veterinarmed [B]** 1997 Mar;44(1):61–4

[Antigenic retrieval using a pressure cooker] Balaton AJ, et al. **Ann Pathol** 1996 Sep;16(4):307–9 (Eng. Abstr.) **(Fre)**

[Control of photocoagulation intensity by thermo-induced release of a fluorescent marker encapsulated in liposomes: study of an in vivo vascular model] Desmettre T, et al. **J Fr Ophtalmol** 1996;19(11):667–78 (Eng. Abstr.) **(Fre)**

[Differentiation of antinociceptive effects of mu, delta and kappa agonists using heat, chemical and mechanical nociception] Murakawa K, et al. **Masui** 1996 Aug; 45(8):937–42 (Eng. Abstr.) **(Jpn)**

[Thermotolerance and heat shock protein (HSP 70) in vascular endothelial cells] Itoh YH, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1187–9 (Eng. Abstr.) **(Jpn)**

[Changes in arterial blood pressure and hypothalamic neural activity in response to caloric stimulation in guinea pigs] Inokuchi A, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1997 Feb;100(2):199–204 (Eng. Abstr.) **(Jpn)**

[Recommendation of maximum permissible exposure level—The Society of Japan Industrial Health] **Sangyo Eiseigaku Zasshi** 1996 Jul;38(4):172–209 **(Jpn)**

[Colouration of toki–shakuyaku–san extract granules and the production of high–molecular compounds under heat–stress storages] Hirayama H, et al. **Yakugaku Zasshi** 1996 May;116(5):411–6 (Eng. Abstr.) **(Jpn)**

[Study of the thermoresistance of Clostridium difficile spores] Meisel–Mikołajczyk F, et al. **Med Dosw Mikrobiol** 1995; 47(3–4):177–81 (Eng. Abstr.) **(Pol)**

[Physical cost of working under conditions of thermal load] Kułagowska E. **Med Pr** 1997;48(3):265–71 (Eng. Abstr.) **(Pol)**

[Effect of aggregate state, tonicity, and level of nutrients in media on recovery of Escherichia coli bacteria from heat damage] Morozov II. **Biofizika** 1996 May–Jun;41(3):636–41 (Eng. Abstr.) **(Rus)**

[Effect of specific ligands on heat inactivation of muscle glycogen phosphorylase b] Kornilaev BA, et al. **Biokhimiia** 1996 May;61(5):871–9 (Eng. Abstr.) **(Rus)**

[Detection of a new small RNA, induced by heat shock, in wheat seed ribosomes] Zhanybekova SSh, et al. **Biokhimiia** 1996 May;61(5):862–70 (Eng. Abstr.) **(Rus)**

[The role of connective tissue matrix in thermomechanical reactions of the aorta wall] Khestanov SA, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):357–60 **(Rus)**

[Information characteristics of cardiomyocytes during contrasting temperature exposures] Lushnikova EL, et al. **Biull Eksp Biol Med** 1994 May;117(5):543–4 **(Rus)**

[Multiple resistance and lipid peroxidation system of the thermostable Shigella sonnei strains] Shepelev AP, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):69–71 **(Rus)**

[Immunological reactions during adaptation to measured heat factor] Solov'ev AS. **Biull Eksp Biol Med** 1994 May; 117(5):502–4 **(Rus)**

[Biochemical parameters in the development of extreme hyperthermia] Goranchuk VV, et al. **Fiziol Cheloveka** 1997 Jul–Aug;23(4):98–105 **(Rus)**

[Functional state of the temperature analyzer of operators in the gas condensation industry under conditions of hot climate] Khudalberdiev MD, et al. **Fiziol Cheloveka** 1997 Jan–Feb;23(1):20–4 **(Rus)**

[Changes in the electrolyte content of human saliva, urine and sweat under repeated heat exposures] Klimina NV. **Fiziol Cheloveka** 1997 May–Jun;23(3):97–103 **(Rus)**

[Change in EEG spectral characteristics in man during relaxation using local warm air exposure] Umriukhin EA, et al. **Fiziol Cheloveka** 1997 Jul–Aug;23(4):136–8 **(Rus)**

[The initiation of cold shivering during the local heating of the rat hypothalamus under immersion hypothermia] Arokina NK, et al. **Fiziol Zh Im I M Sechenova** 1996 Oct–Nov;82(10–11):108–14 (Eng. Abstr.) **(Rus)**

[Regional blood flow distribution in waking rats under elevated external temperature] Turganbaeva AS, et al. **Fiziol Zh Im I M Sechenova** 1996 Aug–Sep;82(8–9):59–66 (Eng. Abstr.) **(Rus)**

[Consequences of exposure to extreme conditions in somatic cells of Drosophila melanogaster under conditions of disturbed synthesis of heat shock proteins] Kutskova IUA, et al. **Genetika** 1996 Oct;32(10):1406–16 (Eng. Abstr.) **(Rus)**

[The hygienic regulation of the ergothermic body exposure of adolescents based on the biocontrol of warming] Gumener PI, et al. **Gig Sanit** 1996 May–Jun;(3):24–7 (Eng. Abstr.) **(Rus)**

[Substantiation of the regulation of environmental heat load for workers exposed to heating microclimate (for example, steel smelting)] Afanas'eva RF, et al. **Med Tr Prom Ekol** 1997;(2):30–4 (Eng. Abstr.) **(Rus)**

[Experimental bases of the use of pharmacologic agents aimed at higher heat resistance of humans as means of individual protection] Makarov VI, et al. **Med Tr Prom Ekol** 1997; (5):35–8 (Eng. Abstr.) **(Rus)**

[Physiologic and hygienic characteristics of the work of road–building machine operators in hot climate] Retnev VM, et al. **Med Tr Prom Ekol** 1996;(8):16–9 (Eng. Abstr.) **(Rus)**

[Characteristics of microwave and thermal heating of samples of cell suspensions and solutions of several compounds] Morozov II, et al. **Radiats Biol Radioecol** 1996 Sep–Oct; 36(5):671–5 (Eng. Abstr.) **(Rus)**

[Clinical and laboratory studies of cholinergic urticaria] Mijailović B, et al. **Vojnosanit Pregl** 1996 Nov–Dec; 53(6):497–501 (Eng. Abstr.) **(Scr)**

[Heat transfer, convection and altitudinal gradient] Bozinovic F, et al. **Arch Biol Med Exp (Santiago)** 1987;20(1):85–8 (Eng. Abstr.) **(Spa)**

[Endometrial ablation by liquid heat using the EnAbl system in patients after abdominal hysterectomy. Study of safety] Bustos–Lopez HH, et al. **Ginecol Obstet Mex** 1997 May; 65:167–74 (Eng. Abstr.) **(Spa)**

[Metereology and health. The relationship between environmental temperature and mortality] Ballester Díez F. **Rev Esp Salud Publica** 1996 May–Jun;70(3):251–9 (Eng. Abstr.) **(Spa)**

[Development and characterization of a high–purity human factor VIII concentrate submitted to 2 specific virus inactivation treatments (FANDHI) (see comments)] Ristol P, et al. **Sangre (Barc)** 1996 Apr;41(2):125–30 (Eng. Abstr.) . Comment in: Sangre (Barc) 1996 Apr;41(2):97–100. **(Spa)**

[Evaluation of viral safety of a high–purity human factor VIII concentrate submitted to 2 specific virus inactivation treatments (FANDHI) (see comments)] Ristol P, et al. **Sangre (Barc)** 1996 Apr;41(2):131–6 (Eng. Abstr.). Comment in: Sangre (Barc) 1996 Apr;41(2):97–100. **(Spa)**

ADVERSE EFFECTS

Influence of blood supply, thermal and mechanical traumata on hearing function in an animal model. Braun V, et al. **Acta Neurochir (Wien)** 1996;138(8):977–82

Rhinoreactivity in a patient affected by the Darier–White disease. Zambetti G, et al. **Allergol Immunopathol (Madr)** 1996 Jan–Feb;24(1):29–32

Neoallergens in heated pecan nut: products of Maillard–type degradation? Berrens L. **Allergy** 1996 Apr;51(4):277–8

Comparison of a military chemical suit and an industrial usage vapor barrier suit across two thermal environments. Reneau PD, et al. **Am Ind Hyg Assoc J** 1997 Sep;58(9):646–9

Criteria for the diagnosis of heat–related deaths: National Association of Medical Examiners. Position paper. National Association of Medical Examiners Ad Hoc Committee on the Definition of Heat–Related Fatalities. Donoghue ER, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):11–4

Mortality in Chicago attributed to the July 1995 heat wave. Whitman S, et al. **Am J Public Health** 1997 Sep; 87(9):1515–8

Overheating alone can trigger malignant hyperthermia in piglets [see comments] Denborough M, et al. **Anaesth Intensive Care** 1996 Jun;24(3):348–54. Comment in: Anaesth Intensive Care 1996 Dec;24(6):725.

Severe hyponatremia after "purification" [letter] al–Zaki T, et al. **Ann Emerg Med** 1997 Jan;29(1):194–5

Physiological responses of women during exercise under dry–heat condition in winter and summer. Keatisuwan W, et al. **Appl Human Sci** 1996 Jul;15(4):169–76

Infrared tympanic temperature as a predictor of rectal temperature in warm and hot conditions. Hansen RD, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1048–52

Physiological, psychophysical, and psychological responses of firefighters to firefighting training drills. Smith DL, et al. **Aviat Space Environ Med** 1996 Nov;67(11):1063–8

Body heating induced by sub–resonant (350 MHz) microwave irradiation: cardiovascular and respiratory responses in anesthetized rats. Jauchem JR, et al. **Bioelectromagnetics** 1997;18(4):335–8

The effect of condensed tannins from heated and unheated cottonseed on the ileal digestibility of amino acids for the growing rat and pig. Yu F, et al. **Br J Nutr** 1996 Sep; 76(3):359–71

Involvement of central neurotensin in thermoregulatory and neuroimmune function in pregnant rats exposed to heat. Nakamura H, et al. **Brain Behav Immun** 1997 Jun; 11(2):141–52

Nociceptive masseter inhibitory reflexes evoked by laser radiant heat and electrical stimuli. Ellrich J, et al. **Brain Res** 1997 Aug 1;764(1–2):214–20

Heat shock zone of the burn wound [letter] Harada T, et al. **Burns** 1996 Nov;22(7):578–9

Full–thickness burn and venous thrombosis following intravenous infusion of microwave–heated crystalloid fluids. Sieunarine K, et al. **Burns** 1996 Nov;22(7):568–9

Erythema ab igne caused by a car heater. Helm TN, et al. **Cutis** 1997 Feb;59(2):81–2

Age–related effects of heat stress on protective enzymes for peroxides and microsomal monooxygenase in rat liver. Ando M, et al. **Environ Health Perspect** 1997 Jul; 105(7):726–33

Restoration of water and electrolyte balance in horses after repeated exercise in hot and humid conditions. Hyyppä S, et al. **Equine Vet J Suppl** 1996 Jul;(22):108–12

Redistribution of cardiac output in response to heat exposure in the pony. McConaghy FF, et al. **Equine Vet J Suppl** 1996 Jul;(22):42–6

Impact of heat exposure and moderate, intermittent exercise on cytolytic cells. Brenner IK, et al. **Eur J Appl Physiol** 1996;74(1–2):162–71

The ability of two cooked food mutagens to induce aberrant crypt foci in mice. Kristiansen E, et al. **Eur J Cancer Prev** 1997 Feb;6(1):53–7

Heat shock increases antigenic peptide generation but decreases antigen presentation. Pépin E, et al. **Eur J Immunol** 1996 Dec;26(12):2939–43

Characterization of heat–hyperalgesia in an experimental trigeminal neuropathy in rats. Imamura Y, et al. **Exp Brain Res** 1997 Aug;116(1):97–103

Thermotolerance and heat shock proteins: possible involvement of Ku autoantigen in regulating Hsp70 expression. Li GC, et al. **EXS** 1996;77:425–49 (116 ref.)

Role of ribosome degradation in the death of heat–stressed Salmonella typhimurium. Tolker–Nielsen T, et al. **FEMS Microbiol Lett** 1996 Sep 1;142(2–3):155–60

Preventing heat–related illness [editorial] Butler RN. **Geriatrics** 1997 Jun;52(6):7–8

Renal excretion of tetracycline is transiently decreased during short–term heat exposure. Vanakoski J, et al. **Int J Clin Pharmacol Ther** 1997 May;35(5):204–7

Heat–induced illness in dogs: 42 cases (1976–1993). Drobatz KJ, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1894–9

Influence of thermal and dietary stress on immune response of rabbits. Franci O, et al. **J Anim Sci** 1996 Jul;74(7):1523–9

Heat strain models applicable for protective clothing systems: comparison of core temperature response. Gonzalez RR, et al. **J Appl Physiol** 1997 Sep;83(3):1017–32

Age, fitness, and regional blood flow during exercise in the heat. Ho CW, et al. **J Appl Physiol** 1997 Apr;82(4):1126–35

Thermal necrosis after tibial reaming [letter; comment] Dodenhoff RM. **J Bone Joint Surg Br** 1997 Mar;79(2):341 . Comment on: J Bone Joint Surg Br 1996 Jul;78(4):584–7.

Thermal necrosis after tibial reaming [letter; comment] Eyres KS. **J Bone Joint Surg Br** 1997 Mar;79(2):341. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):584–7.

Histologic analysis of thermal effects of laser thermokeratoplasty and corneal ablation using Sirius–red polarization microscopy. Asiyo–Vogel MN, et al. **J Cataract Refract Surg** 1997 May;23(4):515–26

Active oxygen species generation by circulating leukocytes and gastric submucosal microcirculatory disturbances in the early period after thermal injury. Yoshida M, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S87–92

Skin tumours in cattle and sheep after freeze– or heat–branding. Yeruham I, et al. **J Comp Pathol** 1996 Jan; 114(1):101–6

Thresholds and tolerance of physical pain in suicidal and nonsuicidal adolescents. Orbach I, et al. **J Consult Clin Psychol** 1997 Aug;65(4):646–52

Adverse effects of summer amongst people with learning disabilities: neuroleptic malignant syndrome. Fitzgerald B, et al. **J Intellect Disabil Res** 1997 Jun;41 (Pt 3):273–7

Effects of repeated hyperthermal stress on blood cells in vivo. Kubota K, et al. **J Med** 1997;28(1–2):55–61

Risk of heat–related injury to disaster relief workers in a slow–onset flood disaster. Dellinger AM, et al. **J Occup Environ Med** 1996 Jul;38(7):689–92

The limits of bloodwarming: maximally heating blood with an inline microwave bloodwarmer. Herron DM, et al. **J Trauma** 1997 Aug;43(2):219–26; discussion 226–8

Heat–wave–related mortality—Milwaukee, Wisconsin, July 1995. **MMWR Morb Mortal Wkly Rep** 1996 Jun 21; 45(24):505–7

Intracerebroventricular injection of tumor necrosis factor–alpha induces thermal hyperalgesia in rats. Oka T, et al. **Neuroimmunomodulation** 1996 Mar–Jun;3(2–3):135–40

Protecting workers in hot environments. **Occup Health Saf** 1997 Aug;66(8):89

Heat shock induces transient p53–dependent cell cycle arrest at G1/S. Nitta M, et al. **Oncogene** 1997 Jul 31;15(5):561–8

Topical capsaicin selectively attenuates heat pain and A delta fiber–mediated laser–evoked potentials. Beydoun A, et al. **Pain** 1996 May–Jun;65(2–3):189–96

Environmental heat stress does not reduce blood ionized calcium concentration in hens acclimated to elevated temperatures. Samara MH, et al. **Poult Sci** 1996 Feb; 75(2):197–200

Hyperthermic seizures: an animal model for hot–water epilepsy. Ullal GR, et al. **Seizure** 1996 Sep;5(3):221–8

Heat–induced alterations in embryonic cytoskeletal and stress proteins precede somite malformations in rat embryos. Fisher BR, et al. **Teratog Carcinog Mutagen** 1996; 16(1):49–64

Heat contact urticaria—a case report. Chung HS, et al. **Yonsei Med J** 1996 Jun;37(3):230–5

[Resistance of Listeria monocytogenes to physical exposure] Augustin JC. **Pathol Biol (Paris)** 1996 Nov;44(9):790–807 (94 ref.) (Eng. Abstr.) **(Fre)**

[Thermal stress on the inner ear in laser stapedotomy] Jovanovic S, et al. **HNO** 1996 Jan;44(1):6–13 (Eng. Abstr.) **(Ger)**

[Thermal colorectal lesions] Neves C, et al. **Acta Med Port** 1996 Oct–Dec;9(10–12):407–8 (Eng. Abstr.) **(Por)**

[The enhancement of human thermal resistance by the single use of bemitil and fenibut] Makarov VI, et al. **Eksp Klin Farmakol** 1997 Jan–Feb;60(1):68–71 (Eng. Abstr.) **(Rus)**

[The clinical manifestations of heat–induced lesions in miners in the deep coal mines of the Donets Basin] Valutsina VM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):152–6 (Eng. Abstr.) **(Rus)**

[State of cardiovascular and blood coagulation systems during prolonged exposure to extreme stimuli] Morozov VN, et al. **Med Tr Prom Ekol** 1997;(1):5–8 (Eng. Abstr.) **(Rus)**

[An ultrastructural study of the hippocampal neurons in mice subjected to heat exposure] Pavlik LL, et al. **Tsitologiia** 1996;38(6):571–7 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Immunoreactivity of specific epitopes of PrPSc is enhanced by pretreatment in a hydrated autoclave. Yokoyama T, et al. **Clin Diagn Lab Immunol** 1996 Jul;3(4):470–1

[A method for the diagnosis and treatment of diseases using high–temperature short–term heat impulses] Makushkin SV, et al. **Voen Med Zh** 1997 Mar;318(3):64–7 **(Rus)**

HEAT

THERAPEUTIC USE

Thermal balance in term and preterm newborn infants nursed in an incubator equipped with a radiant heat source. Sjörs G, et al. **Acta Paediatr** 1997 Apr;86(4):403–9

Treatment of cutaneous leishmaniasis with localized current field (radio frequency) in Tabasco, Mexico. Velasco–Castrejon O, et al. **Am J Trop Med Hyg** 1997 Sep; 57(3):309–12

Anesthesia for fish envenomation [letter; comment] Bush SP. **Ann Emerg Med** 1997 May;29(5):692–3. Comment on: Ann Emerg Med 1996 Oct;28(4):456–7.

Microwave heating in the management of postmastectomy upper limb lymphedema. Gan JL, et al. **Ann Plast Surg** 1996 Jun;36(6):576–80; discussion 580–1

In–line blood/solution warmers. **Health Devices** 1996 Oct; 25(10):352–90

Sister Elizabeth Kenny, an Australian nurse, and treatment of poliomyelitis victims. Oppewal SR. **Image J Nurs Sch** 1997 Spring;29(1):83–7

Heat–moisture exchangers [letter; comment] Seakins P. **Intensive Care Med** 1996 Jul;22(7):714. Comment on: Intensive Care Med 1995 Feb;21(2):142–8.

Temperature monitoring during radiofrequency ablation. Dinerman JL, et al. **J Cardiovasc Electrophysiol** 1996 Feb; 7(2):163–73 (23 ref.)

Effects of passive body heating on the sleep of older female insomniacs. Dorsey CM, et al. **J Geriatr Psychiatry Neurol** 1996 Apr;9(2):83–90

The effects of heating with ultrasound on knee joint displacement. Reed B, et al. **J Orthop Sports Phys Ther** 1997 Sep;26(3):131–7

Effect of elevated temperature on cytotoxic effector cells. Singh VK, et al. **Pathobiology** 1996;64(3):150–5

Time constants in thermal laser medicine: II. Distributions of time constants and thermal relaxation of tissue. van Gemert MJ, et al. **Phys Med Biol** 1996 Aug;41(8):1381–99

Clinical trials: testing of adult chemical heating pad. Herman J, et al. **Sch Inq Nurs Pract** 1996 Summer;10(2):135–46; discussion 147–51

Feeding heated soyabean flour increases the density of B and T lymphocytes in the small intestine of calves. Lallès JP, et al. **Vet Immunol Immunopathol** 1996 Jun 15; 52(1–2):105–15

[Immunological monitoring of patients with disseminated colorectal cancer under thermochemotherapy] Iaremchuk AIa, et al. **Klin Khir** 1997;(1):35–7 (Eng. Abstr.) **(Rus)**

[Nonendoscopic thermal treatment methods in benign prostatic hyperplasia: hyperthermia, thermotherapy, thermoablation] Apolikhin OI, et al. **Urol Nefrol (Mosk)** 1996 Jul–Aug;(4):48–56 (70 ref.) **(Rus)**

[A method for the diagnosis and treatment of diseases using high–temperature short–term heat impulses] Makushkin SV, et al. **Voen Med Zh** 1997 Mar;318(3):64–7 **(Rus)**

[Thermal vibromassage in the treatment of children with dyskinesia of the biliary tract] Matveeva LA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1997 Jan–Feb;(1):12–4 (Eng. Abstr.) **(Rus)**

[The effect of body cooling and warming on motor unit function in patients with different clinical forms of parkinsonism] Lupandin IuV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(6):86–7 **(Rus)**

[Effect of various types of thermotherapy in the rehabilitation of persons with war injuries of the extremities] Durović A. **Vojnosanit Pregl** 1996 May–Jun;53(3):195–200 (Eng. Abstr.) **(Scr)**

HEAT COLLAPSE see **HEAT EXHAUSTION**

HEAT CRAMPS see **HEAT STRESS DISORDERS**

HEAT EXHAUSTION

Heat exhaustion during mass pilgrimage––is there a diagnostic role for pulse oximetry? el–Bakry AK, et al. **Resuscitation** 1996 Apr;31(2):121–6

DIAGNOSIS

Rectal temperature in marathon runners [letter; comment] Ash CJ, et al. **Ann Emerg Med** 1997 May;29(5):693. Comment on: Ann Emerg Med 1996 Oct;28(4):414–7.

Infrared thermometry in the diagnosis and treatment of heat exhaustion. Hansen RD, et al. **Int J Sports Med** 1996 Jan; 17(1):66–70

Heat–stroke–induced cerebellar atrophy: clinical course, CT and MRI findings. Albukrek D, et al. **Neuroradiology** 1997 Mar;39(3):195–7

EPIDEMIOLOGY

Epidemic heat stroke in a midwest community: risk factors, neurological complications and sequelae. Dixit SN, et al. **Wis Med J** 1997 May;96(5):39–41

IMMUNOLOGY

Concentrations of soluble tumor necrosis factor and interleukin–6 receptors in heatstroke and heatstress [see comments] Hammami MM, et al. **Crit Care Med** 1997 Aug; 25(8):1314–9. Comment in: Crit Care Med 1997 Aug;25(8):1263–9.

MORTALITY

Heat–related illness and death, Wisconsin, 1995. Knobeloch L, et al. **Wis Med J** 1997 May;96(5):33–8

PHYSIOPATHOLOGY

A miniswine model of acute exertional heat exhaustion. Gentile BJ, et al. **Aviat Space Environ Med** 1996 Jun; 67(6):560–7

PREVENTION & CONTROL

Protecting workers in hot environments. **Occup Health Saf** 1997 Aug;66(8):89

Surviving extreme conditions with thirst quenchers. Petty M. **Occup Health Saf** 1996 Sep;65(9):72–3

PSYCHOLOGY

Effects of moderate heat stress on driver vigilance in a moving vehicle. Wyon DP, et al. **Ergonomics** 1996 Jan; 39(1):61–75

THERAPY

American College of Sports Medicine position stand. Heat and cold illnesses during distance running. Armstrong LE, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):i–x (97 ref.)

HEAT LOSS see **BODY TEMPERATURE REGULATION**

HEAT PRODUCTION see **BODY TEMPERATURE REGULATION**

HEAT PROSTRATION see **HEAT EXHAUSTION**

HEAT–SHOCK PROTEINS

see related

MOLECULAR CHAPERONES

Antibody production to heat shock proteins with Mr 65 kD (HSP65) in cutaneous inflammation: a possible relation to focal infection. Izaki S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:197–200

Nitric oxide production during adjuvant–induced and collagen–induced arthritis. Cannon GW, et al. **Arthritis Rheum** 1996 Oct;39(10):1677–84

Recent literature on cell stress & chaperones. **Cell Stress Chaperones** 1996 Apr;1(1):91–5

Recent literature on cell stress & chaperones. **Cell Stress Chaperones** 1996 Dec;1(4):265–9

Heat shock proteins, molecular chaperones and the prion encephalopathies. Kenward N, et al. **Cell Stress Chaperones** 1996 Apr;1(1):18–22 (34 ref.)

The Hsf world: classification and properties of plant heat stress transcription factors. Nover L, et al. **Cell Stress Chaperones** 1996 Dec;1(4):215–23 (58 ref.)

Review of patents in the cell stress and chaperone field. Voellmy R. **Cell Stress Chaperones** 1996 Apr;1(1):29–32

Mutagenesis of two N–terminal Thr and five Ser residues in HslV, the proteolytic component of the ATP–dependent HslVU protease. Yoo SJ, et al. **FEBS Lett** 1997 Jul 21; 412(1):57–60

The heat shock/oxidative stress connection. Relevance to Alzheimer disease. Pappolla MA, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):21–34 (57 ref.)

The use of listeriolysin O in an ELISA, a skin test and a lymphocyte blastogenesis assay on sheep experimentally infected with Listeria monocytogenes, Listeria ivanovii or Listeria innocua. Baetz AL, et al. **Vet Microbiol** 1996 Jul; 51(1–2):151–9

[Stress response of pathogenic bacteria––are stress proteins virulence factors?] Yamamoto T. **Nippon Saikingaku Zasshi** 1996 Oct;51(4):1025–36 (15 ref.) **(Jpn)**

[Functions of Hsp90, a major stress protein, as a molecular chaperone] Kimura Y, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(7):883–7 (31 ref.) **(Jpn)**

[Structure and function of the DnaJ/Hsp40 family] Minami Y. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(7):875–82 (46 ref.) **(Jpn)**

[Collagen–specific molecular chaperone, HSP47] Nagata K. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(7):888–95 (32 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Development of antigen–delivery systems, based on the Escherichia coli hemolysin secretion pathway. Gentschev I, et al. **Gene** 1996 Nov 7;179(1):133–40

ANALYSIS

Heat shock protein 27 overexpression in breast cancer lymph node metastasis. Storm FK, et al. **Ann Surg Oncol** 1996 Nov;3(6):570–3

The effects in vivo of hypoxia on brain injury. Pearigen P, et al. **Brain Res** 1996 Jul 1;725(2):184–91

Proliferating cell nuclear antigen and heat shock protein 70 immunolocalization in invasive ductal breast cancer not otherwise specified. Lazaris ACh, et al. **Breast Cancer Res Treat** 1997 Mar;43(1):43–51

Comparison of flow cytometry and western blotting to measure Hsp70. He L, et al. **Cytometry** 1996 Nov 1; 25(3):280–6

Identification of stress proteins in endothelial cells. Portig I, et al. **Electrophoresis** 1996 Apr;17(4):803–8

Identification of stress proteins in lysates of human cell lines separated by two–dimensional electrophoresis and electroblotted simultaneously onto two different membranes. Vogt CP, et al. **Electrophoresis** 1996 May; 17(5):892–8

Toxicant–induced alterations in two–dimensional electrophoretic patterns of hepatic and renal stress proteins. Witzmann FA, et al. **Electrophoresis** 1996 Jan;17(1):198–202

alpha B–crystallin in the primate ciliary muscle and trabecular meshwork. Siegner A, et al. **Eur J Cell Biol** 1996 Oct;71(2):165–9

The endoplasmic reticulum–resident stress protein gp96 binds peptides translocated by TAP. Lammert E, et al. **Eur J Immunol** 1997 Apr;27(4):923–7

Localization of heat shock proteins in mouse male germ cells: an immunoelectron microscopical study. Biggiogera M, et al. **Exp Cell Res** 1996 Nov 25;229(1):77–85

Distribution of heat shock proteins in eutopic and ectopic endometrium in endometriosis and adenomyosis. Ota H, et al. **Fertil Steril** 1997 Jul;68(1):23–8

Specific expression of HSP47 in human tumor cell lines in vitro. Morino M, et al. **In Vivo** 1997 Jan–Feb;11(1):17–21

Localization of Helicobacter pylori urease and heat shock protein in human gastric biopsies. Dunn BE, et al. **Infect Immun** 1997 Apr;65(4):1181–8

Induction and characterization of heat shock proteins of Salmonella typhi and their reactivity with sera from patients with typhoid fever. Tang SW, et al. **Infect Immun** 1997 Jul;65(7):2983–6

Expression of stress proteins in porcine tissues: developmental changes and effect of immunological challenge. McComb MA, et al. **J Anim Sci** 1997 Jan;75(1):195–201

Identification of endoplasmic reticulum in the primitive eukaryote Giardia lamblia using cryoelectron microscopy and antibody to Bip. Soltys BJ, et al. **J Cell Sci** 1996 Jul; 109 (Pt 7):1909–17

Multiple sclerosis: altered expression of 70– and 27–kDa heat shock proteins in lesions and myelin. Aquino DA, et al. **J Neuropathol Exp Neurol** 1997 Jun;56(6):664–72

Expression of heat shock protein 27 in adult human third molar dental pulp. Sens DA, et al. **J Oral Pathol Med** 1996 Aug;25(7):382–7

Localization and regulation of renal Na+/myo–inositol cotransporter in diabetic rats. Wiese TJ, et al. **Kidney Int** 1996 Oct;50(4):1202–11

Specific and general stress proteins in Bacillus subtilis––a two–deimensional protein electrophoresis study. Bernhardt J, et al. **Microbiology** 1997 Mar;143(Pt 3):999–1017

Immunohistochemical study of 28–kD heat shock protein in the lens of young human embryos. Oguni M, et al. **Ophthalmic Res** 1996;28(5):270–4

Advanced glycosylation end–products and heat shock proteins accumulate in the basophilic degeneration of the myocardium and the corpora amylacea of the glia. Iwaki T, et al. **Pathol Int** 1996 Oct;46(10):757–63

Cellular localization of gp46 at the human fetal–maternal interface. Pak BJ, et al. **Placenta** 1997 Sep;18(7):477–80

Targeted disruption of the mouse alpha A–crystallin gene induces cataract and cytoplasmic inclusion bodies containing the small heat shock protein alpha B–crystallin. Brady JP, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4; 94(3):884–9

Heat shock protein expression in human placenta and umbilical cord. Li DG, et al. **Shock** 1996 May;5(5):320–3

[Expression of the stress–response protein 60 in iritis in experimental autoimmune encephalomyelitis––an immunohistochemical study] Kumagami T, et al. **Nippon Ganka Gakkai Zasshi** 1997 Apr;101(4):299–304 (Eng. Abstr.) **(Jpn)**

[Demonstration of heat shock protein, ubiquitin, in fire death autopsy cases by immunohistochemical study] Shoji T. **Nippon Hoigaku Zasshi** 1997 Apr;51(2):70–6 (Eng. Abstr.) **(Jpn)**

ANTAGONISTS & INHIBITORS

Blocking the endogenous increase in HSP 72 increases susceptibility to hypoxia and reoxygenation in isolated adult feline cardiocytes. Nakano M, et al. **Circulation** 1997 Mar 18;95(6):1523–31

Inhibition of HSP47 during the transition from solid to ascitic form of Sarcoma 180 in vivo. Shirakami T, et al. **In Vivo** 1995 Sep–Oct;9(5):509–12

Unraveling principles of lead discovery: from unfrustrated energy landscapes to novel molecular anchors. Rejto PA, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):8945–50

BIOSYNTHESIS

Overview of hyperthermophiles and their heat–shock proteins. Baross JA, et al. **Adv Protein Chem** 1996;48:1–34 (210 ref.)

Heat stress ameliorates ATP depletion–induced sublethal injury in mouse proximal tubule cells. Borkan SC, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F347–55

Induction of molecular chaperones by hyperosmotic stress in mouse inner medullary collecting duct cells. Rauchman MI, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F9–17

The stress response and the lung. Wong HR, et al.

Am J Physiol 1997 Jul;273(1 Pt 1):L1-9 (94 ref.)
Heat shock protein 72 level decreases during sleep in patients with obstructive sleep apnea syndrome. Noguchi T, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1316-22
The utility of FK506-binding protein as a fusion partner in scintillation proximity assays: application to SH2 domains. Sonatore LM, et al. **Anal Biochem** 1996 Sep 5;240(2):289-97
Strong expression of heat shock proteins in growth plate cartilage, an immunohistochemical study of HSP28, HSP70 and HSP110. Vanmuylder N, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):359-62
Tumor necrosis factor-alpha-induced cytoprotective mechanisms in cardiomyocytes. Analysis by mRNA phenotyping. Sharma HS, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:267-81
Effect of combined alpha IFN and prostaglandin A1 treatment on vesicular stomatitis virus replication and heat shock protein synthesis in epithelial cells. Pica F, et al. **Antiviral Res** 1996 Mar;29(2-3):187-98
Alkaline stress response in Enterococcus faecalis: adaptation, cross-protection, and changes in protein synthesis. Flahaut S, et al. **Appl Environ Microbiol** 1997 Feb;63(2):812-4
Regional distribution of HSP70 proteins after myocardial infraction. Kilgore JL, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):283-8
Translational control during recovery from heat shock in the absence of heat shock proteins. Gallie DR, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):462-7
Low micromolar levels of hydrogen peroxide and proteasome inhibitors induce the 60-kDa A170 stress protein in murine peritoneal macrophages. Ishii T, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):33-7
The heat shock response inhibits inducible nitric oxide synthase gene expression by blocking I kappa-B degradation and NF-kappa B nuclear translocation. Wong HR, et al. **Biochem Biophys Res Commun** 1997 Feb 13; 231(2):257-63
Induction of stress proteins in human skin keratinocytes by heat, ultraviolet and 8-methoxypsoralen. al-Masaud AA, et al. **Biochem Soc Trans** 1996 May;24(2):259S
Secretory heat-shock protein of the thermotolerant yeast Hansenula polymorpha. Identification and comparative characteristics. Tsiomenko AB, et al. **Biochemistry (Mosc)** 1997 Feb;62(2):123-8
Cell-nuclear accumulation of 72-kDa stress protein induced by dimethylated arsenics. Kato K, et al. **Biol Pharm Bull** 1997 Apr;20(4):364-9
Physiological aspects of Trypanosoma cruzi gene regulation during heat-shock. De Carvalho EF, et al. **Biol Res** 1994; 27(3-4):225-31
Enhanced hydrogen peroxide sensitivity and altered stress protein expression in iron-starved Mycobacterium smegmatis. Lundrigan MD, et al. **Biometals** 1997 Jul; 10(3):215-25
Hypoxia-induced ABR change and heat shock protein expression in the pontine auditory pathway of young rabbits. Inagaki M, et al. **Brain Res** 1997 May 16; 757(1):111-8
Pharmacologic blockade of non-NMDA receptors at deep prepiriform cortex attenuates heat shock protein expression in global ischemia. Kawaguchi K, et al. **Brain Res** 1997 Jan 23;746(1-2):59-62
The effect of hypoxia and catecholamines on regional expression of heat-shock protein-72 mRNA in neonatal piglet brain. Murphy SJ, et al. **Brain Res** 1996 Jul 15; 727(1-2):145-52
Induction of heat-shock protein (HSP72) in the cingulate and retrosplenial cortex by drugs that antagonize the effects of excitatory amino acids. Lan JQ, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):297-302
Rapid and transient up-regulation of Na+/myo-inositol cotransporter transcription in the brain of acute hypernatremic rats. Minami Y, et al. **Brain Res Mol Brain Res** 1996 Aug;40(1):64-70
Differential expression of c-fos, Hsp70 and Hsp27 after photothrombotic injury in the rat brain. Plumier JC, et al. **Brain Res Mol Brain Res** 1997 May;45(2):239-46
Expression and intracellular localization of heat shock proteins in multidrug resistance of a cisplatin resistant human ovarian cancer cell line. Kamishima T, et al. **Cancer Lett** 1997 Jun 24;116(2):205-11
Modification of growth and tumorigenicity in epidermal cell lines by DNA-mediated gene transfer of M(r) 27,000 heat shock protein (hsp27). Kindas-Mügge I, et al. **Cell Growth Differ** 1996 Sep;7(9):1167-74
Cell-specific heat-shock induction of Hsp23 in the eye of Drosophila melanogaster. Marin R, et al. **Cell Stress Chaperones** 1996 Apr;1(1):40-6
Synthesis of Hsp72 induced by exercise in high temperature. Chen HW, et al. **Chin J Physiol** 1995;38(4):241-6
Stage-specific localization of the small heat shock protein Hsp27 during oogenesis in Drosophila melanogaster. Marin R, et al. **Chromosoma** 1996 Sep;105(3):142-9
Heat shock proteins and circadian rhythms. Rensing L, et al. **Chronobiol Int** 1996 Oct;13(4):239-50 (74 ref.)
Distinct stress-inducible and developmentally regulated heat shock transcription factors in Xenopus oocytes. Gordon S, et al. **Dev Biol** 1997 Jan 1;181(1):47-63
Induction of Hsp72 and transient nuclear localization of Hsp73 and Hsp72 correlate with the acquisition and loss of thermotolerance in postimplantation rat embryos. Thayer JM, et al. **Dev Dyn** 1997 Feb;208(2):227-43
Induction of a 72-kDa heat shock protein and cytoprotection against thioacetamide-induced liver injury in rats. Fujimori S, et al. **Dig Dis Sci** 1997 Sep;42(9):1987-94
Differential induction of HSP60 and HSP72 by different stress situations in rats. Correlation with cerulein-induced pancreatitis. Otaka M, et al. **Dig Dis Sci** 1997 Jul; 42(7):1473-9
Isolation and characterization of a 14.5-kDa trichloroacetic-acid-soluble translational inhibitor protein from human monocytes that is upregulated upon cellular differentiation. Schmiedeknecht G, et al. **Eur J Biochem** 1996 Dec 1;242(2):339-51
Pre-exposure to subtoxic levels prevents kainic acid lesions in organotypic hippocampal slice cultures: effects of kainic acid on parvalbumin-immunoreactive neurons and expression of heat shock protein 72 following the induction of tolerance. Best N, et al. **Eur J Neurosci** 1996 Jun; 8(6):1209-19
Expression of heat shock protein-70 and limbic seizure-induced neuronal death in the rat brain. Zhang X, et al. **Eur J Neurosci** 1996 Jul;8(7):1432-40
Bronchial gamma delta T-lymphocytes and expression of heat shock proteins in mild asthma. Fajac I, et al. **Eur Respir J** 1997 Mar;10(3):633-8
Analysis of metal-regulated metallothionein and heat shock gene expression in HeLa-derived cadmium-resistant cells. Cigliano S, et al. **Exp Cell Res** 1996 Nov 1;228(2):173-80
Expression profile of stress proteins, intermediate filaments, and adhesion molecules in experimentally denervated and reinnervated rat facial muscle. Tews DS, et al. **Exp Neurol** 1997 Jul;146(1):125-34
Neutral trehalase Nth1p of Saccharomyces cerevisiae encoded by the NTH1 gene is a multiple stress responsive protein. Zähringer H, et al. **FEBS Lett** 1997 Aug 4; 412(3):615-20
Expression of listeriolysin O by intracellular Listeria monocytogenes following infection of lipopolysaccharide-treated or untreated J774.1 macrophage-like cells. Moriishi K, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3-4):213-22
Stress proteins and stress tolerance in an Antarctic, psychrophilic yeast, Candida psychrophila. Deegenaars ML, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):191-6
TNF alpha alters mitochondrial membrane potential in L929 but not in TNF alpha-resistant L929.12 cells: relationship with the expression of stress proteins, annexin 1 and superoxide dismutase activity. Polla BS, et al. **Free Radic Res** 1996 Aug;25(2):125-31
Heat shock response inhibits cytokine-inducible nitric oxide synthase expression in rat hepatocytes. de Vera ME, et al. **Hepatology** 1996 Nov;24(5):1238-45
Are stress proteins part of a cell's solution to toxicity or are they part of the problem? [editorial] Hightower LE, et al. **Hepatology** 1997 May;25(5):1279-81
Heat shock protein induction in murine liver after acute treatment with cocaine. Salminen WF Jr, et al. **Hepatology** 1997 May;25(5):1147-53
Increase of heat-shock protein and induction of gamma/delta T cells in peritoneal exudate of mice after injection of live Fusobacterium nucleatum. Saito K, et al. **Immunology** 1997 Feb;90(2):229-35
Marked induction of HSP47, a collagen-binding stress protein, during solid tumor formation of ascitic Sarcoma 180 in vivo. Morino M, et al. **In Vivo** 1995 Sep-Oct; 9(5):503-8
Specific expression of HSP27 in human tumor cell lines in vitro. Morino M, et al. **In Vivo** 1997 Mar-Apr;11(2):179-84
Specific expression of HSP47 in human tumor cell lines in vitro. Morino M, et al. **In Vivo** 1997 Jan-Feb;11(1):17-21
Decreased expression of HSP47 in highly malignant mouse fibrosarcoma. Shirakami T, et al. **In Vivo** 1995 Sep-Oct; 9(5):513-8
The Yersinia enterocolitica GsrA stress protein, involved in intracellular survival, is induced by macrophage phagocytosis. Yamamoto T, et al. **Infect Immun** 1997 Jun; 65(6):2190-6
Constitutive synthesis of heat shock protein (72 kD) in human peripheral blood mononuclear cells: implications for use as a clinical test of recent thermal stress. Bratton SL, et al. **Int J Hyperthermia** 1997 Mar-Apr;13(2):157-68
Heat shock protein 72 (HSP72), a hyperthermia-inducible immunogenic determinant on leukemic K562 and Ewing's sarcoma cells. Multhoff G. **Int J Hyperthermia** 1997 Jan-Feb;13(1):39-48
Expression of clusterin/sulfated glycoprotein-2 under conditions of heat stress in rat Sertoli cells and a mouse Sertoli cell line. Clark AM, et al. **J Androl** 1997 May-Jun; 18(3):257-63
In vivo exposure to ozone produces an increase in a 72-kDa heat shock protein in guinea pigs. Su WY, et al. **J Appl Physiol** 1997 Sep;83(3):707-11
Role of the Escherichia coli FadR regulator in stasis survival and growth phase-dependent expression of the uspA, fad, and fab genes. Farewell A, et al. **J Bacteriol** 1996 Nov; 178(22):6443-50
Cloning and characterization of cspL and cspP, two cold-inducible genes from Lactobacillus plantarum. Mayo B, et al. **J Bacteriol** 1997 May;179(9):3039-42
Induction of the heat shock protein ClpB affects cold acclimation in the cyanobacterium Synechococcus sp. strain PCC 7942. Porankiewicz J, et al. **J Bacteriol** 1997 Aug;179(16):5111-7
Proteasome inhibition leads to a heat-shock response, induction of endoplasmic reticulum chaperones, and thermotolerance. Bush KT, et al. **J Biol Chem** 1997 Apr 4;272(14):9086-92
A novel hsp110-related gene, apg-1, that is abundantly expressed in the testis responds to a low temperature heat shock rather than the traditional elevated temperatures. Kaneko Y, et al. **J Biol Chem** 1997 Jan 31;272(5):2640-5
Modulation of protein phosphorylation and stress protein expression by okadaic acid on heat shock cells. Chen KD, et al. **J Cell Biochem** 1996 May;61(2):255-65
Stable overexpression of human HSF-1 in murine cells suggests activation rather than expression of HSF-1 to be the key regulatory step in the heat shock gene expression. Mivechi NF, et al. **J Cell Biochem** 1995 Oct;59(2):266-80
Protein kinase C activation inhibits stress-induced synthesis of heat shock protein 27 in osteoblast-like cells: function of arachidonic acid. Suzuki A, et al. **J Cell Biochem** 1996 Jul;62(1):69-75
Prostaglandins stimulate the stress-induced synthesis of hsp27 and alpha B crystallin. Ito H, et al. **J Cell Physiol** 1997 Mar;170(3):255-62
Induction of Na+/myo-inositol cotransporter mRNA after focal cerebral ischemia: evidence for extensive osmotic stress in remote areas. Yamashita T, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1203-10
Constitutive expression of the 27-kDa heat shock protein (Hsp27) in sensory and motor neurons of the rat nervous system. Plumier JC, et al. **J Comp Neurol** 1997 Aug 4; 384(3):409-28
Effect of pre-induction of heat shock proteins on indomethacin-induced small-intestinal lesion in rats. Jin M, et al. **J Gastroenterol** 1997 Feb;32(1):34-9
Expression of a 60-kDa and a 72-kDa heat shock protein in rat pancreas after hyperthermia. Okuyama A, et al. **J Gastroenterol** 1996 Feb;31(1):143-5
Induction of heat shock proteins by tyrosine kinase inhibitors in rat cardiomyocytes and myogenic cells confers protection against simulated ischemia. Conde AG, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1927-38
Heat stress improves functional recovery and induces synthesis of 27- and 70-kDa heat shock proteins without preserving sarcoplasmic reticulum function in the ischemic rat heart. Kontos MC, et al. **J Mol Cell Cardiol** 1996 Sep; 28(9):1885-94
Constitutive expression of HSP 72 in swine heart. Locke M, et al. **J Mol Cell Cardiol** 1996 Mar;28(3):467-74
Differential accumulation of mRNA for immediate early genes and heat shock genes in heart after ischaemic injury. Plumier JC, et al. **J Mol Cell Cardiol** 1996 Jun; 28(6):1251-60
Differential heat shock protein induction by acetaminophen and a nonhepatotoxic regioisomer, 3'-hydroxyacetanilide, in mouse liver. Salminen WF Jr, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1533-40
Endothelial hypoxic stress proteins. Graven KK, et al. **Kidney Int** 1997 Feb;51(2):426-37 (78 ref.)
Expression of heat shock proteins in chronic pancreatitis: protective or pathogenic roles? Slater S, et al. **Lab Invest** 1997 Apr;76(4):533-45
Acclimatization, preconditioning and heat shock proteins. Steinmann CM, et al. **Med Hypotheses** 1996 Oct; 47(4):257-60
Chemotherapy-induced expression of alpha B-crystallin in neuroblastoma. Ishiguro Y, et al. **Med Pediatr Oncol** 1997 Jul;29(1):11-5
Induction of heat shock proteins and thermotolerance. Piper P. **Methods Mol Biol** 1996;53:313-7 (15 ref.)
Thermal response in murine L929 cells lacking alpha B-crystallin expression and alpha B-crystallin expressing L929 transfectants. Blackburn R, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):51-60
Examination of the molecular basis for the lack of alphaB-crystallin expression in L929 cells. Blackburn RV, et al. **Mol Cell Biochem** 1997 May;170(1-2):31-42
The Broad-Complex gene is a tissue-specific modulator of the ecdysone response of the Drosophila hsp23 gene. Dubrovsky EB, et al. **Mol Cell Biol** 1996 Nov; 16(11):6542-52
The heat shock/oxidative stress connection. Relevance to Alzheimer disease. Pappolla MA, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1-3):21-34 (57 ref.)
Increase in synthesis and stability of sigma 32 on treatment with inhibitors of DNA gyrase in Escherichia coli. Mizushima T, et al. **Mol Gen Genet** 1996 Dec 13; 253(3):297-302
Transcriptional regulation of the macrophage-induced gene (gspA) of Legionella pneumophila and phenotypic characterization of a null mutant. Abu Kwaik Y, et al. **Mol Microbiol** 1997 May;24(3):629-42
Plant-derived amino acids increase hippocampal BDNF, NGF, c-fos and hsp70 mRNAs. Andersson H, et al. **Neuroreport** 1997 May 27;8(8):1813-7
Hyaluronate on heat shock protein and synovial cells in a canine model of osteoarthritis. Asari A, et al. **Osteoarthritis Cartilage** 1996 Sep;4(3):213-5
Eliprodil prevents expression of the 70 kDa heat shock protein in MK801-injured neurones. Wang S, et al. **Pharmacol Toxicol** 1996 Sep;79(3):166-8
A rapid increase in the level of binding protein (BiP) is

accompanied by synthesis and degradation of storage proteins in pumpkin cotyledons. Hatano K, et al. **Plant Cell Physiol** 1997 Mar;38(3):344–51

Differential transcript induction of parsley pathogenesis–related proteins and of a small heat shock protein by ozone and heat shock. Eckey–Kaltenbach H, et al. **Plant Mol Biol** 1997 Jan;33(2):343–50

Chloroplastic isoforms of DnaJ and GrpE in pea. Schlicher T, et al. **Plant Mol Biol** 1997 Jan;33(1):181–5

Differential display–mediated isolation of a genomic sequence for a putative mitochondrial LMW HSP specifically expressed in condition of induced thermotolerance in Arabidopsis thaliana (L.) heynh. Visioli G, et al. **Plant Mol Biol** 1997 Jun;34(3):517–27

Synthesis of small heat–shock proteins is part of the developmental program of late seed maturation. Wehmeyer N, et al. **Plant Physiol** 1996 Oct;112(2):747–57

A novel 29–kDa chicken heat shock protein. Einat MF, et al. **Poult Sci** 1996 Dec;75(12):1528–30

Function and regulation of heat shock factor 2 during mouse embryogenesis. Rallu M, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2392–7

Cytotoxicity, zinc protection, and stress protein induction in rat proximal tubule cells exposed to cadmium chloride in primary cell culture. Liu J, et al. **Ren Fail** 1996 Nov; 18(6):867–82

Subacute exposure to cadmium chloride induces HSP–72 in rat liver. Curtis SL, et al. **Res Commun Mol Pathol Pharmacol** 1996 Nov;94(2):221–4

Heat–induced alterations in embryonic cytoskeletal and stress proteins precede somite malformations in rat embryos. Fisher BR, et al. **Teratog Carcinog Mutagen** 1996; 16(1):49–64

Stress proteins (HSP) and chemical–induced autoimmunity. Albers R, et al. **Toxicol Appl Pharmacol** 1996 Sep; 140(1):70–6

Vaccinia virus replication is independent of cellular HSP72 expression which is induced during virus infection. Sedger L, et al. **Virology** 1996 Nov 15;225(2):423–7

[Consequences of exposure to extreme conditions in somatic cells of Drosophila melanogaster under conditions of disturbed synthesis of heat shock proteins] Kutskova IUA, et al. **Genetika** 1996 Oct;32(10):1406–16 (Eng. Abstr.) **(Rus)**

[Stress proteins in bacteria] Basnak'ian IA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov–Dec; (6):99–103 (48 ref.) **(Rus)**

BLOOD

Is leptin a stress related peptide? [letter] Bornstein SR. **Nat Med** 1997 Sep;3(9):937

CEREBROSPINAL FLUID

Heat shock protein [letter; comment] Kedaria MB, et al. **J Neurosurg** 1997 Jan;86(1):172. Comment on: J Neurosurg 1996 Jul;85(1):138–45.

CHEMISTRY

The utility of FK506–binding protein as a fusion partner in scintillation proximity assays: application to SH2 domains. Sonatore LM, et al. **Anal Biochem** 1996 Sep 5;240(2):289–97

Salinity and osmotic stress–regulated proteins in cowpea Rhizobium 4a (peanut isolate). Wankhade S, et al. **Biochem Mol Biol Int** 1996 Jun;39(3):621–8

A 50 kilodalton protein associated with raf and pp60(v–src) protein kinases is a mammalian homolog of the cell cycle control protein cdc37. Perdew GH, et al. **Biochemistry** 1997 Mar 25;36(12):3600–7

Immunosuppressor binding to the immunophilin FKBP59 affects the local structural dynamics of a surface beta–strand: time–resolved fluorescence study. Rouviere N, et al. **Biochemistry** 1997 Jun 17;36(24):7339–52

Modeling the interaction between FK506 and FKBP12: a mechanism for formation of the calcineurin inhibitory complex. Ivery MT, et al. **Bioorg Med Chem** 1997 Feb; 5(2):217–32

Synthetic study of phosphopeptides related to heat shock protein HSP27. Wakamiya T, et al. **Bioorg Med Chem** 1997 Jan;5(1):135–45

Molecular chaperones and the heat shock response at Cold Spring Harbor. Hightower LE, et al. **Cell Stress Chaperones** 1997 Mar;2(1):1–11 (21 ref.)

Physical interactions between members of the DnaK chaperone machinery: characterization of the DnaK.GrpE complex. Reid KL, et al. **Cell Stress Chaperones** 1996 Jun; 1(2):127–37

Calcineurin–immunosuppressor complexes. Stoddard BL, et al. **Curr Opin Struct Biol** 1996 Dec;6(6):770–5 (39 ref.)

A small heat shock protein stably binds heat–denatured model substrates and can maintain a substrate in a folding–competent state. Lee GJ, et al. **EMBO J** 1997 Feb 3;16(3):659–71

Structure–function analysis of the Escherichia coli GrpE heat shock protein. Wu B, et al. **EMBO J** 1996 Sep 16; 15(18):4806–16

The beta–tubulin monomer release factor (p14) has homology with a region of the DnaJ protein. Llosa M, et al. **FEBS Lett** 1996 Nov 18;397(2–3):283–9

Cloning and characterization of the groE locus from Actinobacillus pleuropneumoniae. Vézina G, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):11–6

Two–dimensional electrophoretic analysis of compartment–specific hepatic protein charge modification induced by thioacetamide exposure in rats. Witzmann FA, et al. **Fundam Appl Toxicol** 1996 May;31(1):124–32

A comparison of structural relationships among alpha–crystallin, human Hsp27, gamma–crystallins and beta B2–crystallin. Singh K, et al. **Int J Biol Macromol** 1996 Dec;19(4):227–33

A lymphocyte cell surface heat shock protein homologous to the endoplasmic reticulum chaperone, immunoglobulin heavy chain binding protein BIP. Berger CL, et al. **Int J Cancer** 1997 Jun 11;71(6):1077–85

The mitochondrial hsp70 chaperone system. Effect of adenine nucleotides, peptide substrate, and mGrpE on the oligomeric state of mhsp70. Azem A, et al. **J Biol Chem** 1997 Aug 15;272(33):20901–6

Bacterial protease Lon is a site–specific DNA–binding protein. Fu GK, et al. **J Biol Chem** 1997 Jan 3;272(1):534–8

Structure–function studies on small heat shock protein oligomeric assembly and interaction with unfolded polypeptides. Leroux MR, et al. **J Biol Chem** 1997 Sep 26;272(39):24646–56

Unique structural features of a novel class of small heat shock proteins. Leroux MR, et al. **J Biol Chem** 1997 May 9; 272(19):12847–53

Human alphaB–crystallin. Small heat shock protein and molecular chaperone. Muchowski PJ, et al. **J Biol Chem** 1997 Jan 24;272(4):2578–82

Rapamycin inhibits protein kinase C activity and stimulates Na+ transport in A6 cells. Rokaw MD, et al. **J Biol Chem** 1996 Dec 13;271(50):32468–73

Protein phosphatase 5 is a major component of glucocorticoid receptor.hsp90 complexes with properties of an FK506–binding immunophilin. Silverstein AM, et al. **J Biol Chem** 1997 Jun 27;272(26):16224–30

How GroES regulates binding of nonnative protein to GroEL. Sparrer H, et al. **J Biol Chem** 1997 May 30; 272(22):14080–6

Characterization of a new high–temperature–induced 66–kDa heat–shock protein, antigenically related to heat–shock protein 72. Delpino A, et al. **J Cell Biochem** 1996 Oct; 63(1):51–60

Picture story. One–armed bandit. Felsenfeld AL. **Nat Struct Biol** 1997 May;4(5):338

Capturing the misfolds: chaperone–peptide–binding motifs [news; comment] Joachimiak A. **Nat Struct Biol** 1997 Jun; 4(6):430–4. Comment on: Nat Struct Biol 1997 Jun;4(6):477–82.

Purification, characterization, and structural analysis of a plant low–temperature–induced protein. Boothe JG, et al. **Plant Physiol** 1997 Feb;113(2):367–76

Monitoring protein–protein interactions in intact eukaryotic cells by beta–galactosidase complementation. Rossi F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8405–10

FK506–binding protein mutational analysis: defining the active–site residue contributions to catalysis and the stability of ligand complexes. DeCenzo MT, et al. **Protein Eng** 1996 Feb;9(2):173–80

Template–based docking of a prolactin receptor proline–rich motif octapeptide to FKBP12: implications for cytokine receptor signaling. Soman KV, et al. **Protein Sci** 1997 May; 6(5):999–1008

Hsc66 and Hsc20, a new heat shock cognate molecular chaperone system from Escherichia coli. Vickery LE, et al. **Protein Sci** 1997 May;6(5):1047–56

Mean field analysis of FKBP12 complexes with FK506 and rapamycin: implications for a role of crystallographic water molecules in molecular recognition and specificity. Rejto PA, et al. **Proteins** 1997 Jul;28(3):313–24

Exploring the energy landscapes of molecular recognition by a genetic algorithm: analysis of the requirements for robust docking of HIV–1 protease and FKBP–12 complexes. Verkhivker GM, et al. **Proteins** 1996 Jul; 25(3):342–53

Crystal structure of the nucleotide exchange factor GrpE bound to the ATPase domain of the molecular chaperone DnaK. Harrison CJ, et al. **Science** 1997 Apr 18; 276(5311):431–5

CLASSIFICATION

HSP100/Clp proteins: a common mechanism explains diverse functions. Schirmer EC, et al. **Trends Biochem Sci** 1996 Aug;21(8):289–96 (50 ref.)

DEFICIENCY

Thermoregulatory and heat–shock protein response deficits in cold–exposed diabetic mice. Matz JM, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R525–32

A new case of multiple mitochondrial enzyme deficiencies with decreased amount of heat shock protein 60. Briones P, et al. **J Inherit Metab Dis** 1997 Aug;20(4):569–77

DRUG EFFECTS

The effect of etoposide (VP–16) on mouse L fibroblasts: modulation of stress response, growth and apoptosis genes. Sacchi CM, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3659–64

Effect of protein kinase inhibitors on activity of mammalian small heat–shock protein (HSP25) kinase. Hayess K, et al. **Biochem Pharmacol** 1997 May 9;53(9):1239–47

Suppression of heat–induced hsp72 accumulation by cisplatin in human glioblastoma cells. Matsumoto H, et al. **Cancer Lett** 1996 Dec 20;110(1–2):253–7

Induction and subcellular localization of two major stress proteins in response to copper in the fathead minnow Pimephales promelas. Sanders BM, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1995 Nov;112(3):335–43

Two–dimensional electrophoretic analysis of compartment–specific hepatic protein charge modification induced by thioacetamide exposure in rats. Witzmann FA, et al. **Fundam Appl Toxicol** 1996 May;31(1):124–32

DNA–damaging agents induce the 72–kD heat shock protein in SV40 transformed normal human fibroblasts. Muramatsu T, et al. **J Dermatol** 1996 Sep;23(9):589–93

HSP72 expression in malignant hyperthermia and normal muscle following exposure to caffeine and halothane [letter] Brooksbank R, et al. **Muscle Nerve** 1997 Jan;20(1):123

GENETICS

Distinct expression of heat shock and acute phase genes during regional hepatic ischemia–reperfusion. Gingalewski C, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R634–40

Osmotic regulation of Na–myo–inositol cotransporter mRNA level and activity in endothelial and neural cells [published errata appear in Am J Physiol 1996 Sep;271(3 Pt 1):section C following table of contents and 1996 Dec;271(6 Pt 3):section C following table of contents] Wiese TJ, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C990–7

Heat shock response—pathophysiological implications. Leppä S, et al. **Ann Med** 1997 Feb;29(1):73–8 (50 ref.)

Hypochlorous acid activates the heat shock and soxRS systems of Escherichia coli. Dukan S, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4003–8

Molecular characterization of the gene encoding an 18–kilodalton small heat shock protein associated with the membrane of Leuconostoc oenos. Jobin MP, et al. **Appl Environ Microbiol** 1997 Feb;63(2):609–14

The canine sodium/myo–inositol cotransporter gene: structural organization and characterization of the promoter. Rim JS, et al. **Arch Biochem Biophys** 1997 May 1;341(1):193–9

Human heat shock protein gene polymorphisms and sudden infant death syndrome [see comments] Rahim RA, et al. **Arch Dis Child** 1996 Nov;75(5):451–2. Comment in: Arch Dis Child 1997 Apr;76(4):386.

Gene polymorphisms and the use of the bonferroni correction factor: when and when not to apply? [letter; comment] Tanner MS, et al. **Arch Dis Child** 1997 Apr;76(4):386. Comment on: Arch Dis Child 1996 Nov;75(5):451–2.

Tissue distribution and abundance of human FKBP51, and FK506–binding protein that can mediate calcineurin inhibition. Baughman G, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):437–43

Developmentally regulated expression of APG–1, a member of heat shock protein 110 family in murine male germ cells. Kaneko Y, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):113–6

Sequence and analysis of a dnaJ homologue gene in cyanobacterium Synechococcus sp. PCC7942. Oguchi K, et al. **Biochem Biophys Res Commun** 1997 Jul 18; 236(2):461–6

Repeat–induced point mutations of HSP80 gene of Neurospora crassa: methylation of duplicated DNA sequences in the vegetative state. Vijayaraghavan Y, et al. **Biochem Cell Biol** 1996;74(1):41–50

Molecular cloning and analysis of a HSP (heat shock protein)–like 42 kDa antigen gene of Mycoplasma hyopneumoniae. Chou SY, et al. **Biochem Mol Biol Int** 1997 Apr;41(4):821–31

Isolation and characterization of a human heart cDNA encoding a new member of the small heat shock protein family—HSPL27. Lam WY, et al. **Biochim Biophys Acta** 1996 Nov 8;1314(1–2):120–4

In vivo effect of DNA relaxation on the transcription of gene rpoH in Escherichia coli. López–Sánchez F, et al. **Biochim Biophys Acta** 1997 Jul 17;1353(1):79–83

Cloning of dnaK and dnaJ homologous genes from a purple non–sulfur bacterium Rhodopseudomonas species. Momma K, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):235–9

The recombinant dehydrin–like desiccation stress protein from the resurrection plant Craterostigma plantagineum displays no defined three–dimensional structure in its native state. Lisse T, et al. **Biol Chem** 1996 Sep;377(9):555–61

Variation in expression of hsp27 messenger ribonucleic acid during the cycle of the seminiferous epithelium and co–localization of hsp27 and microfilaments in Sertoli cells of the rat. Welsh MJ, et al. **Biol Reprod** 1996 Jul; 55(1):141–51

The differential osmoregulation and localization of taurine transporter mRNA and Na+/myo–inositol cotransporter mRNA in rat eyes. Morimura H, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):245–52

Physical mapping of several heat–shock genes in Pseudomonas aeruginosa and the cloning of the mopA (GroEL) gene. Farinha MA, et al. **Can J Microbiol** 1996 Apr;42(4):326–34

Analysis of gene expression during experimental uveitis in the rabbit. Rocha G, et al. **Can J Ophthalmol** 1996 Aug; 31(5):228–33

Heat shock protein gene expression during Xenopus development. Heikkila JJ, et al. **Cell Mol Life Sci** 1997 Jan;53(1):114–21

Heat shock protein gene expression during embryonic development of the zebrafish. Krone PH, et al. **Cell Mol Life Sci** 1997 Jan;53(1):122–9 (90 ref.)

HSP gene expression and HSF2 in mouse development. Loones MT, et al. **Cell Mol Life Sci** 1997 Feb;53(2):179–90 (119 ref.)

Regulation of heat shock gene induction and expression during Drosophila development. Michaud S, et al. **Cell Mol Life Sci** 1997 Jan;53(1):104–13 (112 ref.)

Heat stress proteins and transcription factors. Nover L, et al. **Cell Mol Life Sci** 1997 Jan;53(1):80–103 (415 ref.)

Regulation of hsp expression during rodent spermatogenesis. Sarge KD, et al. **Cell Mol Life Sci** 1997 Feb;53(2):191–7 (38 ref.)

Murine 86-kDa heat shock protein gene and promoter. Dale EC, et al. **Cell Stress Chaperones** 1997 Jun;2(2):87–93

The heat shock genes in the Drosophila montium subgroup: chromosomal localization and evolutionary implications. Drosopoulou E, et al. **Chromosoma** 1996 Aug;105(2):104–10

Messenger RNA expression of heat shock proteins (HSPs) during ocular development. Tanaka Y, et al. **Curr Eye Res** 1995 Dec;14(12):1125–33

Identification of a 97-kDa heat shock protein from S. franciscanus ovaries with 94% amino acid identity to the S. purpuratus egg surface receptor for sperm. Mauk R, et al. **Dev Biol** 1997 Apr 1;184(1):31–7

Temporospatial expression of the small HSP/alpha B-crystallin in cardiac and skeletal muscle during mouse development. Benjamin IJ, et al. **Dev Dyn** 1997 Jan; 208(1):75–84

Spatial and temporal activity of the alpha B-crystallin/small heat shock protein gene promoter in transgenic mice. Haynes JI 2nd, et al. **Dev Dyn** 1996 Sep;207(1):75–88

Juvenile hormone regulation and developmental expression of a Tenebrio desiccation stress protein gene. Graham LA, et al. **Dev Genet** 1996;18(4):296–305

Effect of caloric restriction on the expression of heat shock protein 70 and the activation of heat shock transcription factor 1. Heydari AR, et al. **Dev Genet** 1996;18(2):114–24

Laboratory diagnosis of chancroid using species-specific primers from Haemophilus ducreyi groEL and the polymerase chain reaction. Parsons LM, et al. **Diagn Microbiol Infect Dis** 1995 Nov;23(3):89–98

Construction of an internal standard for semiquantitative polymerase chain reaction analysis of heat shock proteins. Khan MA, et al. **Electrophoresis** 1996 Jan;17(1):40–3

Brugia pahangi: characterisation of a small heat shock protein cDNA clone. Thompson FJ, et al. **Exp Parasitol** 1996 Aug; 83(3):259–66

Transcriptional regulation of stress-inducible genes in procaryotes. Yura T, et al. **EXS** 1996;77:165–81 (62 ref.)

Isolation of mRNAs induced by a hazardous chemical in white-rot fungus, Coriolus versicolor, by differential display. Iimura Y, et al. **FEBS Lett** 1997 Jul 28;412(2):370–4

Isolation and characterisation of a cDNA encoding rat mitochondrial GrpE, a stress-inducible nucleotide-exchange factor of ubiquitous appearance in mammalian organs. Naylor DJ, et al. **FEBS Lett** 1996 Nov 4;396(2–3):181–8

Ehrlichia sennetsu groE operon and antigenic properties of the GroEL homolog. Zhang Y, et al. **FEMS Immunol Med Microbiol** 1997 May;18(1):39–46

HySP26 gene transcription is strongly induced during Saccharomyces cerevisiae growth at low pH. Carmelo V, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):85–8

Cloning and characterization of the groE locus from Actinobacillus pleuropneumoniae. Vézina G, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):11–6

Isolation and characterization of csbB, a gene controlled by Bacillus subtilis general stress transcription factor sigma B. Akbar S, et al. **Gene** 1996 Oct 24;177(1–2):123–8

The isolation of novel heat shock genes in Lactococcus lactis using RNA subtractive hybridization. Arnau J, et al. **Gene** 1997 Apr 1;188(2):229–34

Isolation of a mouse cDNA encoding mSTI1, a stress-inducible protein containing the TPR motif. Blatch GL, et al. **Gene** 1997 Jul 31;194(2):277–82

Cloning and expression of the Borrelia burgdorferi lon gene. Cloud JL, et al. **Gene** 1997 Jul 18;194(1):137–41

The 5' regulatory region from the Drosophila pseudoobscura hsp82 gene results in a high level of reporter gene expression in Lucilia cuprina embryos. Coates CJ, et al. **Gene** 1996 Oct 10;175(1–2):199–201

Sequence and transcriptional analysis of clpX, a class-III heat-shock gene of Bacillus subtilis. Gerth U, et al. **Gene** 1996 Nov 28;181(1–2):77–83

cDNA cloning of a 20-kDa protein (p20) highly homologous to small heat shock proteins: developmental and physiological changes in rat hindlimb muscles. Inaguma Y, et al. **Gene** 1996 Oct 31;178(1–2):145–50

Isolation and characterisation of a novel stress-inducible PDI-family gene from Aspergillus niger. Jeenes DJ, et al. **Gene** 1997 Jul 9;193(2):151–6

Cloning of apg-2 encoding a novel member of heat shock protein 110 family. Kaneko Y, et al. **Gene** 1997 Apr 11; 189(1):19–24

Cloning, structural analysis and expression of the gene encoding Hsp32 from Dictyostelium discoideum. Maria AC, et al. **Gene** 1997 Jul 9;193(2):173–80

The rpoH gene encoding sigma 32 homolog of Vibrio cholerae. Sahu GK, et al. **Gene** 1997 Apr 21;189(2):203–7

Basal level transcription of the human hsp86 gene is directed by intron-based elements. Lange P, et al. **Genes Cells** 1997 Mar;2(3):185–94

Genetic variation in the expression of the six hsp genes in the presence of heat shock in Drosophila melanogaster. Otsuka Y, et al. **Genes Genet Syst** 1997 Feb;72(1):19–24

The 93D (hsr-omega) locus of Drosophila: non-coding gene with house-keeping functions. Lakhotia SC, et al. **Genetica** 1996 May;97(3):339–48 (80 ref.)

Synergy between trehalose and Hsp104 for thermotolerance in Saccharomyces cerevisiae. Elliott B, et al. **Genetics** 1996 Nov;144(3):923–33

Response of two heat shock genes to selection for knockdown heat resistance in Drosophila melanogaster. McColl G, et al. **Genetics** 1996 Aug;143(4):1615–27

Negative regulation of gene expression of a novel proline-, threonine-, and glycine-rich protein by water stress in Lycopersicon chilense. Yu LX, et al. **Genome** 1996 Dec; 39(6):1185–93

Genomic cloning of a human heat shock protein 40 (Hsp40) gene (HSPF1) and its chromosomal localization to 19p13.2. Hata M, et al. **Genomics** 1996 Dec 15;38(3):446–9

Structures of the human gene for the protein disulfide isomerase-related polypeptide ERp60 and a processed gene and assignment of these genes to 15q15 and 1q21. Koivunen P, et al. **Genomics** 1997 Jun 15;42(3):397–404

HSP27 locus cosegregates with left ventricular mass independently of blood pressure. Hamet P, et al. **Hypertension** 1996 Dec;28(6):1112–7

Specific regulation of HSPs in human tumor cell lines by PSK. Morino M, et al. **In Vivo** 1997 May-Jun;11(3):261–4

Specific regulation of HSPs in human tumor cell lines by flavonoids. Morino M, et al. **In Vivo** 1997 May-Jun; 11(3):265–70

Characterization of the nucleotide sequence of the groE operon encoding heat shock proteins chaperone-60 and -10 of Francisella tularensis and determination of the T-cell response to the proteins in individuals vaccinated with F. tularensis. Ericsson M, et al. **Infect Immun** 1997 May; 65(5):1824–9

Cloning and baculovirus expression of a desiccation stress gene from the beetle, Tenebrio molitor. Graham LA, et al. **Insect Biochem Mol Biol** 1996 Feb;26(2):127–33

General and oxidative stress responses in Bacillus subtilis: cloning, expression, and mutation of the alkyl hydroperoxide reductase operon. Antelmann H, et al. **J Bacteriol** 1996 Nov;178(22):6571–8

capA, a cspA-like gene that encodes a cold acclimation protein in the psychrotrophic bacterium Arthrobacter globiformis SI55. Berger F, et al. **J Bacteriol** 1997 Sep; 179(18):5670–6

A mutation in the ftsK gene of Escherichia coli affects cell-cell separation, stationary-phase survival, stress adaptation, and expression of the gene encoding the stress protein UspA. Diez AA, et al. **J Bacteriol** 1997 Sep; 179(18):5878–83

CotM of Bacillus subtilis, a member of the alpha-crystallin family of stress proteins, is induced during development and participates in spore outer coat formation. Henriques AO, et al. **J Bacteriol** 1997 Mar;179(6):1887–97

The RIB element in the goaG-pspF intergenic region of Escherichia coli. Jovanovic G, et al. **J Bacteriol** 1997 May; 179(10):3095–102

The Bradyrhizobium japonicum rpoH1 gene encoding a sigma 32-like protein is part of a unique heat shock gene cluster together with groESL1 and three small heat shock genes. Narberhaus F, et al. **J Bacteriol** 1996 Sep; 178(18):5337–46

Expression and control of an operon from an intracellular symbiont which is homologous to the groE operon. Sato S, et al. **J Bacteriol** 1997 Apr;179(7):2300–4

Heat induction of hsp18 gene expression in Streptomyces albus G: transcriptional and posttranscriptional regulation. Servant P, et al. **J Bacteriol** 1996 Dec;178(24):7031–6

The lonS gene regulates swarmer cell differentiation of Vibrio parahaemolyticus. Stewart BJ, et al. **J Bacteriol** 1997 Jan;179(1):107–14

Transcriptional organization and regulation of the dnaK and groE operons of Chlamydia trachomatis. Tan M, et al. **J Bacteriol** 1996 Dec;178(23):6983–90

The Caulobacter heat shock sigma factor gene rpoH is positively autoregulated from a sigma32-dependent promoter. Wu J, et al. **J Bacteriol** 1997 Jan;179(2):514–21

Growth-phase-dependent expression of cspD, encoding a member of the CspA family in Escherichia coli. Yamanaka K, et al. **J Bacteriol** 1997 Aug;179(16):5126–30

Examination of the Tn5 transposase overproduction phenotype in Escherichia coli and localization of a suppressor of transposase overproduction killing that is an allele of rpoH. Yigit H, et al. **J Bacteriol** 1997 Mar; 179(5):1704–13

HSDJ, a human homolog of DnaJ, is farnesylated and is involved in protein import into mitochondria. Kanazawa M, et al. **J Biochem (Tokyo)** 1997 May;121(5):890–5

Structure and expression of the dnaKJ operon of Buchnera, an intracellular symbiotic bacteria of aphid. Sato S, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):41–8

Overexpression of HSF2-beta inhibits hemin-induced heat shock gene expression and erythroid differentiation in K562 cells. Leppä S, et al. **J Biol Chem** 1997 Jun 13; 272(24):15293–8

Molecular characterization of a small heat shock/alpha-crystallin protein in encysted Artemia embryos. Liang P, et al. **J Biol Chem** 1997 Jul 25; 272(30):19051–8

The yeast JEM1p is a DnaJ-like protein of the endoplasmic reticulum membrane required for nuclear fusion. Nishikawa S, et al. **J Biol Chem** 1997 May 16;272(20):12889–92

Effects of site-directed mutations on the chaperone-like activity of alphaB-crystallin. Plater ML, et al. **J Biol Chem** 1996 Nov 8;271(45):28558–66

Evidence that a rapidly turning over protein, normally degraded by proteasomes, regulates hsp72 gene transcription in HepG2 cells. Zhou M, et al. **J Biol Chem** 1996 Oct 4;271(40):24769–75

Inhibition of colony formation of NIH 3T3 cells by the expression of the small molecular weight heat shock protein HSP27: involvement of its phosphorylation and aggregation at the C-terminal region. Arata S, et al. **J Cell Physiol** 1997 Jan;170(1):19–26

Activation signals regulate heat shock transcription factor 1 in human B lymphocytes. Hardy L, et al. **J Cell Physiol** 1997 Mar;170(3):235–40

Ultraviolet light attenuates heat-inducible gene expression. Qiu L, et al. **J Cell Physiol** 1997 Sep;172(3):314–22

Transcription regulation of alpha B-crystallin in astrocytes: analysis of HSF and AP1 activation by different types of physiological stress. Head MW, et al. **J Cell Sci** 1996 May; 109 (Pt 5):1029–39

A yeast heat shock transcription factor (Hsf1) mutant is defective in both Hsc82/Hsp82 synthesis and spindle pole body duplication. Zarzov P, et al. **J Cell Sci** 1997 Aug; 110 (Pt 16):1879–91

Heat shock factor-1 protein in heat shock factor-1 gene-transfected human epidermoid A431 cells requires phosphorylation before inducing heat shock protein-70 production. Ding XZ, et al. **J Clin Invest** 1997 Jan 1; 99(1):136–43

Murine cells transfected with human Hsp27 cDNA resist TNF-induced cytotoxicity. Wang G, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jan; 19(1):9–20

DNA polymorphisms and variant penicillin-binding proteins as evidence that relatively penicillin-resistant pneumococci in western Canada are clonally related. Swiatlo E, et al. **J Infect Dis** 1996 Oct;174(4):884–8

The sequences of heat shock protein 40 (DnaJ) homologs provide evidence for a close evolutionary relationship between the Deinococcus-thermus group and cyanobacteria. Bustard K, et al. **J Mol Evol** 1997 Aug; 45(2):193–205

Multiple comparison of primary structure of the osmoregulatory Na+/myo-inositol cotransporter from bovine, human, and canine species. Mallee JJ, et al. **Mamm Genome** 1996 Mar;7(3):252

Expression of genes encoding the collagen-binding heat shock protein (Hsp47) and type II collagen in developing zebrafish embryos. Lele Z, et al. **Mech Dev** 1997 Jan; 61(1–2):89–98

Cloning of the 3' noncoding regions from several members of heat shock protein gene families by differential display. Joshi CP, et al. **Methods Mol Biol** 1997;85:107–21

Expression of heat shock protein D 48.5 of Escherichia coli is subject to modulation by catabolite repression. Peruski LF Jr. **Microbiol Res** 1996 Aug;151(3):273–80

The Bacillus subtilis clpC operon encodes DNA repair and competence proteins. Krüger E, et al. **Microbiology** 1997 Apr;143 (Pt 4):1309–16

Bradyzoite-specific gene expression in Toxoplasma gondii requires minimal genomic elements. Bohne W, et al **Mol Biochem Parasitol** 1997 Mar;85(1):89–98

Cloning and characterization of heat shock protein DnaJ homologues from Plasmodium falciparum and comparison with ring infected erythrocyte surface antigen. Watanabe J. **Mol Biochem Parasitol** 1997 Sep;88(1–2):253–8

Rapid assay of HSF1 and HSF2 gene expression by RT-PCR. Ding XZ, et al. **Mol Cell Biochem** 1996 May 24; 158(2):189–92

In vivo analysis of the Hsp90 cochaperone Sti1 (p60). Chang HC, et al. **Mol Cell Biol** 1997 Jan;17(1):318–25

Heat shock factor gains access to the yeast HSC82 promoter independently of other sequence-specific factors and antagonizes nucleosomal repression of basal and induced transcription. Erkine AM, et al. **Mol Cell Biol** 1996 Dec; 16(12):7004–17

Repression of the heat shock factor 1 transcriptional activation domain is modulated by constitutive phosphorylation. Kline MP, et al. **Mol Cell Biol** 1997 Apr; 17(4):2107–15

Regulation of Drosophila heat shock factor trimerization: global sequence requirements and independence of nuclear localization. Orosz A, et al. **Mol Cell Biol** 1996 Dec; 16(12):7018–30

Role of the mitochondrial DnaJ homolog Mdj1p as a chaperone for mitochondrially synthesized and imported proteins. Westermann B, et al. **Mol Cell Biol** 1996 Dec; 16(12):7063–71

Role of estrogen receptor/Sp1 complexes in estrogen-induced heat shock protein 27 gene expression. Porter W, et al. **Mol Endocrinol** 1996 Nov;10(11):1371–8

Heat stress transcription factors from tomato can functionally replace HSF1 in the yeast Saccharomyces cerevisiae. Boscheinen O, et al. **Mol Gen Genet** 1997 Jul;255(3):322–31

A novel homologue of the prokaryotic htrA gene is differentially expressed in the alga Haematococcus pluvialis

following stress. Hershkovits G, et al. **Mol Gen Genet** 1997 Apr 28;254(4):345–50

The dnaKJ operon belongs to the sigma32–dependent class of heat shock genes in Bradyrhizobium japonicum. Minder AC, et al. **Mol Gen Genet** 1997 Mar 26;254(2):195–206

UBI4, the polyubiquitin gene of Saccharomyces cerevisiae, is a heat shock gene that is also subject to catabolite derepression control. Watt R, et al. **Mol Gen Genet** 1997 Jan 27;253(4):439–47

Transcriptional regulation of the macrophage–induced gene (gspA) of Legionella pneumophila and phenotypic characterization of a null mutant. Abu Kwaik Y, et al. **Mol Microbiol** 1997 May;24(3):629–42

Specific binding of the Listeria monocytogenes transcriptional regulator PrfA to target sequences requires additional factor(s) and is influenced by iron. Böckmann R, et al. **Mol Microbiol** 1996 Nov;22(4):643–53

PspF and IHF bind co–operatively in the psp promoter–regulatory region of Escherichia coli. Jovanovic G, et al. **Mol Microbiol** 1997 Aug;25(3):473–81

Degradation by proteases Lon, Clp and HtrA, of Escherichia coli proteins aggregated in vivo by heat shock; HtrA protease action in vivo and in vitro. Laskowska E, et al. **Mol Microbiol** 1996 Nov;22(3):555–71

The Escherichia coli phage–shock–protein (psp) operon. Model P, et al. **Mol Microbiol** 1997 Apr;24(2):255–61 (50 ref.)

Three disparately regulated genes for sigma 32–like transcription factors in Bradyrhizobium japonicum. Narberhaus F, et al. **Mol Microbiol** 1997 Apr;24(1):93–104

Identification of a ClpC ATPase required for stress tolerance and in vivo survival of Listeria monocytogenes. Rouquette C, et al. **Mol Microbiol** 1996 Sep;21(5):977–87

Microbial pathogenesis in cystic fibrosis: co–ordinate regulation of heat–shock response and conversion to mucoidy in Pseudomonas aeruginosa. Schurr MJ, et al. **Mol Microbiol** 1997 Apr;24(2):411–20

Heat–shock inducible polyubiquitin gene UbI undergoes alternative initiation and alternative splicing in mature chicken testes. Mezquita J, et al. **Mol Reprod Dev** 1997 Apr;46(4):471–5

Cellular localization of Na+/MYO–inositol co–transporter mRNA in the rat brain. Inoue K, et al. **Neuroreport** 1996 Apr 26;7(6):1195–8

Expression of heat shock proteins in the developing rat retina. Kojima M, et al. **Neurosci Lett** 1996 Mar 1;205(3):215–7

Transcriptional modulation of viral reporter gene constructs following induction of the cellular stress response. Andrews JM, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1082–4

Novel drought–inducible genes in the highly drought–tolerant cowpea: cloning of cDNAs and analysis of the expression of the corresponding genes. Iuchi S, et al. **Plant Cell Physiol** 1996 Dec;37(8):1073–82

Isolation and responses to stress of a gene that encodes a luminal binding protein in Arabidopsis thaliana. Koizumi N. **Plant Cell Physiol** 1996 Sep;37(6):862–5

Molecular cloning, expression and subcellular localization of a BiP homolog from rice endosperm tissue. Muench DG, et al. **Plant Cell Physiol** 1997 Apr;38(4):404–12

The heat shock cognate 80 gene of tomato is flanked by matrix attachment regions. Chinn AM, et al. **Plant Mol Biol** 1996 Dec;32(5):959–68

The cyanobacterium Synechococcus sp. PCC 7942 possesses a close homologue to the chloroplast ClpC protein of higher plants. Clarke AK, et al. **Plant Mol Biol** 1996 Jul; 31(4):721–30

Differential regulation of small heat–shock genes in plants: analysis of a water–stress–inducible and developmentally activated sunflower promoter. Coca MA, et al. **Plant Mol Biol** 1996 Jul;31(4):863–76

Transcripts of a gene encoding a putative cell wall–plasma membrane linker protein are specifically cold–induced in Brassica napus. Goodwin W, et al. **Plant Mol Biol** 1996 Jul;31(4):771–81

Expression of a novel–type small proline–rich protein gene of alfalfa is induced by 2,4–dichlorophenoxiacetic acid in dedifferentiated callus cells. Györgyey J, et al. **Plant Mol Biol** 1997 Jul;34(4):593–602

Structural organization, expression and promoter activity of a cold–stress–inducible gene of potato (Solanum tuberosum L.) Kirch HH, et al. **Plant Mol Biol** 1997 Mar;33(5):897–909

Chromoplast development in ripening tomato fruit: identification of cDNAs for chromoplast–targeted proteins and characterization of a cDNA encoding a plastid–localized low–molecular–weight heat shock protein. Lawrence SD, et al. **Plant Mol Biol** 1997 Feb; 33(3):483–92

mRNA stability and localisation of the low–temperature–responsive barley gene family blt14. Phillips JR, et al. **Plant Mol Biol** 1997 Apr;33(6):1013–23

Isolation of pathogen/stress–inducible cDNAs from alfalfa by mRNA differential display. Truesdell GM, et al. **Plant Mol Biol** 1997 Mar;33(4):737–43

Expression and native structure of cytosolic class II small heat–shock proteins. Helm KW, et al. **Plant Physiol** 1997 Aug;114(4):1477–85

The rab16B promoter of rice contains two distinct abscisic acid–responsive elements. Ono A, et al. **Plant Physiol** 1996 Oct;112(2):483–91

Expression patterns and promoter activity of the cold–regulated gene ci21A of potato. Schneider A, et al. **Plant Physiol** 1997 Feb;113(2):335–45

Cell stress–regulated human major histocompatibility complex class I gene expressed in gastrointestinal epithelium. Groh V, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12445–50

The T/t common exon of simian virus 40, JC, and BK polyomavirus T antigens can functionally replace the J–domain of the Escherichia coli DnaJ molecular chaperone. Kelley WL, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):3679–84

Stress proteins on the yeast cell surface determine resistance to osmotin, a plant antifungal protein. Yun DJ, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7082–7

FK506–binding protein mutational analysis: defining the active–site residue contributions to catalysis and the stability of ligand complexes. DeCenzo MT, et al. **Protein Eng** 1996 Feb;9(2):173–80

Expression and crystallization of the yeast Hsp82 chaperone, and preliminary X–ray diffraction studies of the amino–terminal domain. Prodromou C, et al. **Proteins** 1996 Aug;25(4):517–22

Laser–controlled cells. Sikorski R, et al. **Science** 1997 Aug 15;277(5328):975

[Integration of IS186 element into the –10–region of the promoter of heat shock lon–gene in Escherichia coli] Ignatov KB, et al. **Bioorg Khim** 1997 Jan;23(1):18–20 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

During canine leishmaniasis a protein belonging to the 83–kDa heat–shock protein family elicits a strong humoral response. Angel SO, et al. **Acta Trop** 1996 Sep;62(1):45–56

Absence of peripheral blood T cell responses to 'shared epitope' containing peptides in recent onset rheumatoid arthritis. McColl GJ, et al. **Ann Rheum Dis** 1997 Apr; 56(4):240–6

Do stress proteins have a regulatory role in autoimmune rheumatoid arthritis? Bell CG. **Biochem Soc Trans** 1996 Aug;24(3):494S

Presence of antibodies to heat stress proteins and its possible significance in workers exposed to high temperature and carbon monoxide. Wu TC, et al. **Biomed Environ Sci** 1996 Dec;9(4):370–9

Stress proteins as agents of immunological change: some lessons from metallothionein. Borghesi LA, et al. **Cell Stress Chaperones** 1996 Jun;1(2):99–108 (114 ref.)

Humoral response against heat shock proteins and other mycobacterial antigens after intravesical treatment with bacille Calmette–Guérin (BCG) in patients with superficial bladder cancer. Zlotta AR, et al. **Clin Exp Immunol** 1997 Jul;109(1):157–65

Culture–negative listeriosis of the central nervous system diagnosed by detection of antibodies to listeriolysin O [letter] Gholizadeh Y, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):176–8

TAP–dependent major histocompatibility complex class I presentation of soluble proteins using listeriolysin. Darji A, et al. **Eur J Immunol** 1997 Jun;27(6):1353–9

Heat shock proteins as immunological carriers and vaccines. Suzue K, et al. **EXS** 1996;77:451–65 (100 ref.)

Generation of heat shock protein–based vaccines by intracellular loading of gp96 with antigenic peptides. Heikema A, et al. **Immunol Lett** 1997 Jun 1;57(1–3):69–74

Listeriolysin and IrpA are major protein targets of the human humoral response against Listeria monocytogenes. Grenningloh R, et al. **Infect Immun** 1997 Sep;65(9):3976–80

Induction and characterization of heat shock proteins of Salmonella typhi and their reactivity with sera from patients with typhoid fever. Tang SW, et al. **Infect Immun** 1997 Jul;65(7):2983–6

The role of heat shock protein, microbial and autoimmune agents in the aetiology of Behçet's disease. Lehner T. **Int Rev Immunol** 1997;14(1):21–32 (59 ref.)

Serodiagnosis of listeriosis based upon detection of antibodies against recombinant truncated forms of listeriolysin O. Gholizadeh Y, et al. **J Clin Microbiol** 1996 Jun;34(6):1391–5

Influences of transporter associated with antigen processing (TAP) on the repertoire of peptides associated with the endoplasmic reticulum–resident stress protein gp96. Arnold D, et al. **J Exp Med** 1997 Aug 4;186(3):461–6

Relationship of immune response to heat–shock protein A and characteristics of Helicobacter pylori–infected patients. Pérez–Pérez GI, et al. **J Infect Dis** 1996 Nov; 174(5):1046–50

Intranasal immunization of mice with PspA (pneumococcal surface protein A) can prevent intranasal carriage, pulmonary infection, and sepsis with Streptococcus pneumoniae. Wu HY, et al. **J Infect Dis** 1997 Apr; 175(4):839–46

Purification of heat shock protein–peptide complexes for use in vaccination against cancers and intracellular pathogens. Srivastava PK. **Methods** 1997 Jun;12(2):165–71 (24 ref.)

Heat shock response of Streptococcus pneumoniae: identification of immunoreactive stress proteins. Hamel J, et al. **Microb Pathog** 1997 Jul;23(1):11–21

Nickel binding and immunological properties of the C–terminal domain of the Helicobacter pylori GroES homologue (HspA). Kansau I, et al. **Mol Microbiol** 1996 Dec;22(5):1013–23

Immunotherapy of tumors with autologous tumor–derived heat shock protein preparations. Tamura Y, et al. **Science** 1997 Oct 3;278(5335):117–20

Anti–heat–shock protein antibodies in rheumatic and autoimmune diseases. Tishler M, et al. **Semin Arthritis Rheum** 1996 Oct;26(2):558–63 (25 ref.)

Heat shock protein–based cancer vaccines and related thoughts on immunogenicity of human tumors. Blachere NE, et al. **Semin Cancer Biol** 1995 Dec;6(6):349–55 (56 ref.)

ISOLATION & PURIFICATION

Stress proteins in Listeria monocytogenes. Phan–Thanh L, et al. **Electrophoresis** 1997 Aug;18(8):1464–71

Purification, structure and in vitro molecular–chaperone activity of Artemia p26, a small heat–shock/alpha–crystallin protein. Liang P, et al. **Eur J Biochem** 1997 Jan 15;243(1–2):225–32

Hrp12, a novel heat–responsive, tissue–specific, phosphorylated protein isolated from mouse liver. Samuel SJ, et al. **Hepatology** 1997 May;25(5):1213–22

Lack of relationship between the expression of Hsp27 heat shock estrogen receptor–associated protein and estrogen receptor or progesterone receptor status in male breast carcinoma. Muñoz de Toro MM, et al. **J Steroid Biochem Mol Biol** 1997 Mar;60(5–6):277–84

Purification of heat shock protein–peptide complexes for use in vaccination against cancers and intracellular pathogens. Srivastava PK. **Methods** 1997 Jun;12(2):165–71 (24 ref.)

Expression and purification of human heat–shock transcription factor 1. Soncin F, et al. **Protein Expr Purif** 1997 Feb;9(1):27–32

METABOLISM

Different interactions of cardiac and skeletal muscle ryanodine receptors with FK–506 binding protein isoforms. Barg S, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1726–33

In situ localization and osmotic regulation of the Na(+)–myo–inositol cotransporter in rat brain. Ibsen L, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):F877–85

Plasticity and stressor specificity of osmotic and heat shock responses of Gillichthys mirabilis gill cells. Kültz D. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1181–93

Fluid shear stress induces the phosphorylation of small heat shock proteins in vascular endothelial cells. Li S, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):C994–1000

Tumor necrosis factor–alpha–induced expression of heat shock protein 72 in adult feline cardiac myocytes. Nakano M, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1231–9

Attenuation of heat shock protein expression by coronary occlusion in hypertrophied hearts. Tajima M, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H526–33

Specificity and uniqueness of endothelial cell stress responses. Tucci M, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):L341–8

Induction of cystine transport and other stress proteins by disulfiram: effects on glutathione levels in cultured cells. Deneke SM, et al. **Am J Respir Cell Mol Biol** 1997 Aug; 17(2):227–34

Free radicals and heat shock protein in the heart. Kukreja RC, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:108–22 (64 ref.)

Stress relief protein modulation by calnexin. Vinayagamoorthy T, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:479–84

Induction of thermotolerance in chickens by temperature conditioning: heat shock protein expression. Yahav S, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:628–36

Prognostic significance of Hsp–27 in astrocytic brain tumors: an immunohistochemical study. Assimakopoulou M, et al. **Anticancer Res** 1997 Jul–Aug;17(4A):2677–82

Interaction between cell–surface–expressed 70–kilodalton heat shock protein–like antigen and CD3(+)4(–)8(–) killer T cells. Takashima S, et al. **Artif Organs** 1996 Aug; 20(8):857–61

Tissue distribution and abundance of human FKBP51, and FK506–binding protein that can mediate calcineurin inhibition. Baughman G, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):437–43

DnaJ potentiates the interaction between DnaK and alpha–helical peptides. de Crouy–Chanel A, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):627–30

Transient loss of alphaB–crystallin: an early cellular response to mechanical stretch. Mitton KP, et al. **Biochem Biophys Res Commun** 1997 Jun 9;235(1):69–73

Reciprocal effects of pro–inflammatory stimuli and anti–inflammatory drugs on the activity of heat shock factor–1 in human monocytes. Soncin F, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):479–84

Enhancement of superoxide production and protection against heat shock by HSP27 in fibroblasts. Souren JE, et al. **Biochem Biophys Res Commun** 1996 Oct 23; 227(3):816–21

Activation of the ATPase activity of heat–shock proteins Hsc70/Hsp70 by cysteine–string protein. Chamberlain LH, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):853–8

Inhibition of hsc70–catalysed clathrin uncoating by HSJ1 proteins. Cheetham ME, et al. **Biochem J** 1996 Oct 1;319 (Pt 1):103–8

Subcellular redistribution of HSP72 protein during cisplatin–induced apoptosis in HeLa cells. Meléndez–Zajgla J, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):253–61

Heat shock protein 80 of Neurospora crassa, a cytosolic molecular chaperone of the eukaryotic stress 90 family, interacts directly with heat shock protein 70. Freitag DG, et al. **Biochemistry** 1997 Aug 19;36(33):10221–9

Binding of immunophilins to the 90 kDa heat shock protein (hsp90) via a tetratricopeptide repeat domain is a conserved protein interaction in plants. Owens-Grillo JK, et al. **Biochemistry** 1996 Dec 3;35(48):15249-55

GrpE accelerates nucleotide exchange of the molecular chaperone DnaK with an associative displacement mechanism. Packschies L, et al. **Biochemistry** 1997 Mar 25;36(12):3417-22

Immunosuppressor binding to the immunophilin FKBP59 affects the local structural dynamics of a surface beta-strand: time-resolved fluorescence study. Rouviere N, et al. **Biochemistry** 1997 Jun 17;36(24):7339-52

Cooperative action of Hsp70, Hsp90, and DnaJ proteins in protein renaturation. Schumacher RJ, et al. **Biochemistry** 1996 Nov 26;35(47):14889-98

HSP binding and mitochondrial localization of p53 protein in human HT1080 and mouse C3H10T1/2 cell lines. Merrick BA, et al. **Biochim Biophys Acta** 1996 Sep 13; 1297(1):57-68

Purification of an atypical bovine interferon induced in response to heat shock in bovine cultured cells. Characterization in comparison with the classical alpha, beta and gamma interferon. Gachet Y, et al. **Biochimie** 1997; 79(1):43-52

IbpA and IbpB, the new heat-shock proteins, bind to endogenous Escherichia coli proteins aggregated intracellularly by heat shock. Laskowska E, et al. **Biochimie** 1996;78(2):117-22

Characterization of cyclophilin 40: highly conserved protein that directly associates with Hsp90. Yokoi H, et al. **Biol Pharm Bull** 1996 Apr;19(4):506-11

Conformational polymorphism in peptidic and nonpeptidic drug molecules. Taylor P, et al. **Biopolymers** 1996; 40(5):585-92

Platelet adhesion to collagen under flow causes dissociation of a phosphoprotein complex of heat-shock proteins and protein phosphatase 1. Polanowska-Grabowska R, et al. **Blood** 1997 Aug 15;90(4):1516-26

Expression of the collagen-related heat shock protein HSP47 in fibroblasts treated with hyperthermia or photodynamic therapy. Verrico AK, et al. **Br J Cancer** 1997;76(6):719-24

Heat shock protein synthesis is affected by intracellular pH: inhibition by monensin-induced alkalosis in C6 rat glioma cells. Neuhaus-Steinmetz U, et al. **Brain Res** 1996 Jun 10; 724(1):16-24

Analysis of glial fibrillary acidic protein, neurofilament protein, actin and heat shock proteins in human fetal brain during the second trimester. Aquino DA, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):1-10

Focal cerebral ischaemia increases the levels of several classes of heat shock proteins and their corresponding mRNAs. Wagstaff MJ, et al. **Brain Res Mol Brain Res** 1996 Dec; 42(2):236-44

Overexpression of resistance-related proteins (metallothioneins, glutathione-S-transferase pi, heat shock protein 27, and lung resistance-related protein) in osteosarcoma. Relationship with poor prognosis. Uozaki H, et al. **Cancer** 1997 Jun 15;79(12):2336-44

Heat-shock protein 72 cell-surface expression on human lung carcinoma cells in associated with an increased sensitivity to lysis mediated by adherent natural killer cells. Botzler C, et al. **Cancer Immunol Immunother** 1996 Dec; 43(4):226-30

Interaction of BiP with substance P and nucleotides. Weissbach H, et al. **Cell Mol Biol Res** 1995;41(5):397-403

Cell surface expression of heat shock proteins and the immune response. Multhoff G, et al. **Cell Stress Chaperones** 1996 Sep;1(3):167-76 (90 ref.)

Hsp30, the integral plasma membrane heat shock protein of Saccharomyces cerevisiae, is a stress-inducible regulator of plasma membrane H(+)-ATPase. Piper PW, et al. **Cell Stress Chaperones** 1997 Mar;2(1):12-24

Physical interactions between members of the DnaK chaperone machinery: characterization of the DnaK.GrpE complex. Reid KL, et al. **Cell Stress Chaperones** 1996 Jun; 1(2):127-37

Regulation and function of collagen-specific molecular chaperone, HSP47. Nagata K, et al. **Cell Struct Funct** 1996 Oct;21(5):425-30 (30 ref.)

HSF recruitment and loss at most Drosophila heat shock loci is coordinated and depends on proximal promoter sequences. Shopland LS, et al. **Chromosoma** 1996 Sep; 105(3):158-71

Overexpression of heat shock protein 72 in transgenic mice decreases infarct size in vivo. Hutter JJ, et al. **Circulation** 1996 Sep 15;94(6):1408-11

Comparison of binding characteristics of four rapamycin metabolites to the 14 and 52 kDa immunophilins with their pharmacologic activity measured by the mixed-lymphocyte culture assay. Goodyear N, et al. **Clin Biochem** 1996 Aug;29(4):309-13

The role of Hsp104 in stress tolerance and [PSI+] propagation in Saccharomyces cerevisiae. Lindquist S, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:451-60

Hsp47 and other ER-resident molecular chaperones form heterocomplexes with each other and with collagen type IV chains. Ferreira LR, et al. **Connect Tissue Res** 1996; 33(4):265-73

Expression of wound healing and stress-related proteins in keratoconus corneas. Zhou L, et al. **Curr Eye Res** 1996 Nov;15(11):1124-31

Effect of preinduction of heat shock proteins on acetic acid-induced colitis in rats. Otani S, et al. **Dig Dis Sci** 1997 Apr;42(4):833-46

Sequential action of two hsp70 complexes during protein import into mitochondria. Horst M, et al. **EMBO J** 1997 Apr 15;16(8):1842-9

A small heat shock protein stably binds heat-denatured model substrates and can maintain a substrate in a folding-competent state. Lee GJ, et al. **EMBO J** 1997 Feb 3;16(3):659-71

Identification and characterization of HslV HslU (ClpQ ClpY) proteins involved in overall proteolysis of misfolded proteins in Escherichia coli. Missiakas D, et al. **EMBO J** 1996 Dec 16;15(24):6899-909

Signal transduction pathways in response to protein misfolding in the extracytoplasmic compartments of E. coli: role of two new phosphoprotein phosphatases PrpA and PrpB. Missiakas D, et al. **EMBO J** 1997 Apr 1; 16(7):1670-85

The GroE chaperonin machine is a major modulator of the CIRCE heat shock regulon of Bacillus subtilis. Mogk A, et al. **EMBO J** 1997 Aug 1;16(15):4579-90

Stable association of chloroplastic precursors with protein translocation complexes that contain proteins from both envelope membranes and a stromal Hsp100 molecular chaperone. Nielsen E, et al. **EMBO J** 1997 Mar 3; 16(5):935-46

The nucleotide exchange factor MGE exerts a key function in the ATP-dependent cycle of mt-Hsp70-Tim44 interaction driving mitochondrial protein import. Schneider HC, et al. **EMBO J** 1996 Nov 1;15(21):5796-803

Steroid receptor interactions with heat shock protein and immunophilin chaperones. Pratt WB, et al. **Endocr Rev** 1997 Jun;18(3):306-60 (698 ref.)

The heat-shock protein HslVU from Escherichia coli is a protein-activated ATPase as well as an ATP-dependent proteinase. Seol JH, et al. **Eur J Biochem** 1997 Aug 1; 247(3):1143-50

Expression of heat shock protein 72 in renal cell carcinoma: possible role and prognostic implications in cancer patients. Santarosa M, et al. **Eur J Cancer** 1997 May;33(6):873-7

Induction of early immediate genes and programmed cell death following cardioplegic arrest in human hearts. Aebert H, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):261-7

The cellular stress response to exercise: role of stress proteins. Locke M. **Exerc Sport Sci Rev** 1997;25:105-36 (192 ref.)

Expression of 47 kDa heat shock protein (HSP47) during development of mouse cornea. Tanaka Y, et al. **Exp Eye Res** 1996 Oct;63(4):383-93

Heat-shock induced protein modifications and modulation of enzyme activities. Bensaude O, et al. **EXS** 1996; 77:199-219 (151 ref.)

The molecular basis of adaptation to ischemia in the heart: the role of stress proteins and anti-oxidants in the ischemic and reperfused heart. Heads RJ, et al. **EXS** 1996;76:383-407 (70 ref.)

Thermotolerance and heat shock proteins: possible involvement of Ku autoantigen in regulating Hsp70 expression. Li GC, et al. **EXS** 1996;77:425-49 (116 ref.)

Attenuated heat shock transcriptional response in aging: molecular mechanism and implication in the biology of aging. Liu AY, et al. **EXS** 1996;77:393-408 (74 ref.)

The transcriptional regulation of heat shock genes: a plethora of heat shock factors and regulatory conditions. Morimoto RI, et al. **EXS** 1996;77:139-63 (116 ref.)

Regulation of thermotolerance and ischemic tolerance. Nagata K. **EXS** 1996;77:467-81 (51 ref.)

Stress proteins in inflammation. Polla BS, et al. **EXS** 1996; 77:375-91 (84 ref.)

Stress proteins as molecular biomarkers for environmental toxicology. Ryan JA, et al. **EXS** 1996;77:411-24 (29 ref.)

UV activation of mammalian stress proteins. Tyrrell RM. **EXS** 1996;77:255-71 (89 ref.)

Sensing stress and responding to stress. Voellmy R. **EXS** 1996;77:121-37 (73 ref.)

K+ is an indispensable cofactor for GrpE stimulation of ATPase activity of DnaK x DnaJ complex from Thermus thermophilus. Motohashi K, et al. **FEBS Lett** 1997 Aug 4;412(3):633-6

Comparative mutational analysis of peptidyl prolyl cis/trans isomerases: active sites of Escherichia coli trigger factor and human FKBP12. Tradler T, et al. **FEBS Lett** 1997 Apr 28;407(2):184-90

Cholecystokinin stimulates heat shock protein 27 phosphorylation in rat pancreas both in vivo and in vitro. Groblewski GE, et al. **Gastroenterology** 1997 Apr; 112(4):1354-61

Biochemical characterization of a molecular switch involving the heat shock protein ClpC, which controls the activity of ComK, the competence transcription factor of Bacillus subtilis. Turgay K, et al. **Genes Dev** 1997 Jan 1;11(1):119-28

Nuclear entry, oligomerization, and DNA binding of the Drosophila heat shock transcription factor are regulated by a unique nuclear localization sequence. Zandi E, et al. **Genes Dev** 1997 May 15;11(10):1299-314

Assignment of the human FKBP12-rapamycin-associated protein (FRAP) gene to chromosome 1p36 by fluorescence in situ hybridization. Moore PA, et al. **Genomics** 1996 Apr 15;33(2):331-2

Targeting of active rat alpha 2,3-sialyltransferase to the yeast cell wall by the aid of the hsp 150 delta-carrier: toward synthesis of sLe(x)-decorated L-selectin ligands. Mattila P, et al. **Glycobiology** 1996 Dec;6(8):851-9

Immunophilins, ligands, and the control of signal transduction. Schreiber SL, et al. **Harvey Lect** 1995-96; 91:99-114 (89 ref.)

Differential activation of heat shock and nuclear factor kappaB transcription factors in postischemic reperfused rat liver. Tacchini L, et al. **Hepatology** 1997 Jul;26(1):186-91

Tissue distribution and immunohistochemical localization of the collagen-binding heat-shock protein gp46 in neonatal rats. Pak BJ, et al. **Histochem J** 1996 Dec;28(12):895-902

Phosphorylation of A 27-kDa protein correlates with survival of protein-synthesis-inhibited MCF-7 cells. Geier A, et al. **In Vitro Cell Dev Biol Anim** 1997 Feb;33(2):129-36

Heat-shock protein expression in cisplatin-sensitive and -resistant human tumor cells. Hettinga JV, et al. **Int J Cancer** 1996 Sep 17;67(6):800-7

Listeriolysin O production and pathogenicity of non-growing Listeria monocytogenes stored at refrigeration temperature. Buncic S, et al. **Int J Food Microbiol** 1996 Aug; 31(1-3):133-47

Mammalian cells adapted to growth at pH 6.7 have elevated HSP27 levels and are resistant to cisplatin. Wachsberger PR, et al. **Int J Hyperthermia** 1997 May-Jun;13(3):251-5; discussion 257-9

Structure-function analyses of the Ssc1p, Mdj1p, and Mge1p Saccharomyces cerevisiae mitochondrial proteins in Escherichia coli. Deloche O, et al. **J Bacteriol** 1997 Oct; 179(19):6066-75

Heat shock regulation of sigmaS turnover: a role for DnaK and relationship between stress responses mediated by sigmaS and sigma32 in Escherichia coli. Muffler A, et al. **J Bacteriol** 1997 Jan;179(2):445-52

Transcription of the mutL repair, miaA tRNA modification, hfq pleiotropic regulator, and hflA region protease genes of Escherichia coli K-12 from clustered Esigma32-specific promoters during heat shock. Tsui HC, et al. **J Bacteriol** 1996 Oct;178(19):5719-31

The cbpA chaperone gene function compensates for dnaJ in lambda plasmid replication during amino acid starvation of Escherichia coli. Węgrzyn A, et al. **J Bacteriol** 1996 Oct;178(19):5847-9

GroE assists refolding of recombinant human pro-urokinase. Xu Z, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):331-7

Spodoptera frugiperda caspase-1, a novel insect death protease that cleaves the nuclear immunophilin FKBP46, is the target of the baculovirus antiapoptotic protein p35. Ahmad M, et al. **J Biol Chem** 1997 Jan 17;272(3):1421-4

Cyclic nucleotide-dependent vasorelaxation is associated with the phosphorylation of a small heat shock-related protein. Beall AC, et al. **J Biol Chem** 1997 Apr 25; 272(17):11283-7

Inhibition of translational initiation by activators of the glucose-regulated stress protein and heat shock protein stress response systems. Role of the interferon-inducible double-stranded RNA-activated eukaryotic initiation factor 2alpha kinase. Brostrom CO, et al. **J Biol Chem** 1996 Oct 4;271(40):24995-5002

FAP48, a new protein that forms specific complexes with both immunophilins FKBP59 and FKBP12. Prevention by the immunosuppressant drugs FK506 and rapamycin. Chambraud B, et al. **J Biol Chem** 1996 Dec 20; 271(51):32923-9

FKBP-12 recognition is dispensable for signal generation by type I transforming growth factor-beta receptors. Charng MJ, et al. **J Biol Chem** 1996 Sep 20;271(38):22941-4

Characterization of hypothermia-induced cellular stress response in mouse tissues. Cullen KE, et al. **J Biol Chem** 1997 Jan 17;272(3):1742-6

The thiol-dependent reductase ERp57 interacts specifically with N-glycosylated integral membrane proteins [published erratum appears in J Biol Chem 1997 Aug 8;272(32):20312] Elliott JG, et al. **J Biol Chem** 1997 May 23; 272(21):13849-55

Hsp70 prevents activation of stress kinases. A novel pathway of cellular thermotolerance. Gabai VL, et al. **J Biol Chem** 1997 Jul 18;272(29):18033-7

Pax-6 and alphaB-crystallin/small heat shock protein gene regulation in the murine lens. Interaction with the lens-specific regions, LSR1 and LSR2. Gopal-Srivastava R, et al. **J Biol Chem** 1996 Sep 20;271(38):23029-36

p75, a member of the heat shock protein family, undergoes tyrosine phosphorylation in response to oxidative stress. Hadari YR, et al. **J Biol Chem** 1997 Jan 3;272(1):657-62

Role of the heat shock protein DnaJ in the lon-dependent degradation of naturally unstable proteins. Jubete Y, et al. **J Biol Chem** 1996 Nov 29;271(48):30798-803

Binding of an N-terminal rhodanese peptide to DnaJ and to ribosomes. Kudlicki W, et al. **J Biol Chem** 1996 Dec 6;271(49):31160-5

Structure-function studies on small heat shock protein oligomeric assembly and interaction with unfolded polypeptides. Leroux MR, et al. **J Biol Chem** 1997 Sep 26;272(39):24646-56

Endoplasmic reticulum chaperones GRP78 and calreticulin prevent oxidative stress, Ca2+ disturbances, and cell death in renal epithelial cells. Liu H, et al. **J Biol Chem** 1997 Aug 29;272(35):21751-9

Mouse lymphoma cells destined to undergo apoptosis in response to thapsigargin treatment fail to generate a calcium-mediated grp78/grp94 stress response. McCormick TS, et al. **J Biol Chem** 1997 Feb 28; 272(9):6087-92

Differential expression of B-crystallin and Hsp27 in skeletal

muscle during continuous contractile activity. Relationship to myogenic regulatory factors. Neufer PD, et al. **J Biol Chem** 1996 Sep 27;271(39):24089–95

Cyclic ADP-ribose binds to FK506-binding protein 12.6 to release Ca2+ from islet microsomes. Noguchi N, et al. **J Biol Chem** 1997 Feb 7;272(6):3133–6

The 27-kDa heat shock protein facilitates basic fibroblast growth factor release from endothelial cells. Piotrowicz RS, et al. **J Biol Chem** 1997 Mar 14;272(11):7042–7

Different thresholds in the responses of two heat shock transcription factors, HSF1 and HSF3. Tanabe M, et al. **J Biol Chem** 1997 Jun 13;272(24):15389–95

The 58-kDa cellular inhibitor of the double stranded RNA-dependent protein kinase requires the tetratricopeptide repeat 6 and DnaJ motifs to stimulate protein synthesis in vivo. Tang NM, et al. **J Biol Chem** 1996 Nov 8;271(45):28660–6

ATP-dependent degradation of CcdA by Lon protease. Effects of secondary structure and heterologous subunit interactions. Van Melderen L, et al. **J Biol Chem** 1996 Nov 1;271(44):27730–8

In vitro and in vivo efficacy of heat shock protein specific immunotoxins on human tumor cells. Piselli P, et al. **J Biol Regul Homeost Agents** 1995 Apr-Jun;9(2):55–62

Intracellular distribution of heat-induced stress glycoproteins. Jethmalani SM, et al. **J Cell Biochem** 1997 Jul 1;66(1):98–111

The Hsp70 homologue Lhs1p is involved in a novel function of the yeast endoplasmic reticulum, refolding and stabilization of heat-denatured protein aggregates. Saris N, et al. **J Cell Biol** 1997 May 19;137(4):813–24

Inhibition of colony formation of NIH 3T3 cells by the expression of the small molecular weight heat shock protein HSP27: involvement of its phosphorylation and aggregation at the C-terminal region. Arata S, et al. **J Cell Physiol** 1997 Jan;170(1):19–26

Endoplasmic reticulum stress-inducible protein GRP94 is associated with an Mg2+-dependent serine kinase activity modulated by Ca2+ and GRP78/BiP. Ramakrishnan M, et al. **J Cell Physiol** 1997 Feb;170(2):115–29

Is heat shock protein re-induction during tolerance related to the stressor-specific induction of heat shock proteins? Wiegant FA, et al. **J Cell Physiol** 1996 Nov;169(2):364–72

Regulation of actin filament dynamics by p38 map kinase-mediated phosphorylation of heat shock protein 27. Guay J, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):357–68

A yeast heat shock transcription factor (Hsf1) mutant is defective in both Hsc82/Hsp82 synthesis and spindle pole body duplication. Zarzov P, et al. **J Cell Sci** 1997 Aug; 110 (Pt 16):1879–91

Cortical application of potassium chloride induces the low-molecular weight heat shock protein (Hsp27) in astrocytes. Plumier JC, et al. **J Cereb Blood Flow Metab** 1997 Jul;17(7):781–90

A function for the QKRAA amino acid motif: mediating binding of DnaJ to DnaK. Implications for the association of rheumatoid arthritis with HLA-DR4. Auger I, et al. **J Clin Invest** 1997 Apr 15;99(8):1818–22

Heat shock protein 72 on tumor cells: a recognition structure for natural killer cells. Multhoff G, et al. **J Immunol** 1997 May 1;158(9):4341–50

Thapsigargin induces phosphorylation of the 27-kDa heat shock protein in human keratinocytes. Shi B, et al. **J Invest Dermatol** 1996 Nov;107(5):749–54

Increased expression of the 72-kDa heat shock protein and reduced sunburn cell formation in human skin after local hyperthermia [letter] Trautinger F, et al. **J Invest Dermatol** 1996 Sep;107(3):442–3

GroE modulates kinetic partitioning of folding intermediates between alternative states to maximize the yield of biologically active protein. Fedorov AN, et al. **J Mol Biol** 1997 May 16;268(4):712–23

The power stroke of the DnaK/DnaJ/GrpE molecular chaperone system. Pierpaoli EV, et al. **J Mol Biol** 1997 Jun 27;269(5):757–68

Heat shock protein changes in hibernation: a similarity with heart failure? Ferrari R, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2383–95

Defective herpes simplex virus vectors expressing the rat brain stress-inducible heat shock protein 72 protect cultured neurons from severe heat shock. Fink SL, et al. **J Neurochem** 1997 Mar;68(3):961–9

Modulation of the stress-induced synthesis of hsp27 and alpha B-crystallin by cyclic AMP in C6 rat glioma cells. Kato K, et al. **J Neurochem** 1996 Mar;66(3):946–50

gamma delta T-cell-human glial cell interactions. II. Relationship between heat shock protein expression and susceptibility to cytolysis. Freedman MS, et al. **J Neuroimmunol** 1997 Apr;74(1-2):143–8

Reactive astrocytes in acute stage after experimental brain injury: relationship to extravasated plasma protein and expression of heat shock protein. Okimura Y, et al. **J Neurotrauma** 1996 Jul;13(7):385–93

Effects of preconditioning with ebselen on glutathione metabolism and stress protein expression. Hoshida S, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1471–5

Stress proteins in the cellular response to ultraviolet radiation. Trautinger F, et al. **J Photochem Photobiol B** 1996 Sep; 35(3):141–8 (71 ref.)

The immunophilin FK506-binding protein modulates Ca2+ release channel closure in rat heart. Xiao RP, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):343–54

Effects of heat shock and teprenone on ethanol-induced damage to cultured rabbit gastric mucosal cells. Takahashi S, et al. **J Physiol Pharmacol** 1996 Sep;47(3):433–41

Expression of heat shock protein on lymphocytes in peripheral blood and synovial fluid from patients with rheumatoid arthritis. Sato H, et al. **J Rheumatol** 1996 Dec; 23(12):2027–32

Effect of water diuresis and water restriction on expression of HSPs-27, -60 and -70 in rat kidney. Medina R, et al. **Kidney Int** 1996 Oct;50(4):1191–4

Effects of partial nephrectomy on the expression of osmolyte transporters. Yamauchi A, et al. **Kidney Int** 1997 Jun; 51(6):1847–54

Ketoconazole inhibits organic osmolyte efflux and induces heat shock proteins in rat renal medulla. Ohno A, et al. **Kidney Int Suppl** 1996 Dec;57:S110–8

HSP25 in isolated perfused rat hearts: localization and response to hyperthermia. Hoch B, et al. **Mol Cell Biochem** 1996 Jul-Aug;160-161:231–9

FKBP12 physically and functionally interacts with aspartokinase in Saccharomyces cerevisiae. Alarcón CM, et al. **Mol Cell Biol** 1997 Oct;17(10):5968–75

Repression of the heat shock factor 1 transcriptional activation domain is modulated by constitutive phosphorylation. Kline MP, et al. **Mol Cell Biol** 1997 Apr; 17(4):2107–15

Suppression of grp78 core promoter element-mediated stress induction by the dbpA and dbpB (YB-1) cold shock domain proteins. Li WW, et al. **Mol Cell Biol** 1997 Jan; 17(1):61–8

Molecular cloning of human FKBP51 and comparisons of immunophilin interactions with Hsp90 and progesterone receptor. Nair SC, et al. **Mol Cell Biol** 1997 Feb; 17(2):594–603

Overexpression of unliganded steroid receptors activates endogenous heat shock factor. Xiao N, et al. **Mol Endocrinol** 1997 Aug;11(9):1365–74

Functional dissection of a cell-division inhibitor, SulA, of Escherichia coli and its negative regulation by Lon. Higashitani A, et al. **Mol Gen Genet** 1997 Apr 28; 254(4):351–7

The role of heat shock proteins in protection and pathophysiology of the arterial wall. Xu Q, et al. **Mol Med Today** 1996 Sep;2(9):372–9 (40 ref.)

The effect of N-terminal fragments of immunophilin on phospholipid composition of rat brain. Karaguezyan KG, et al. **Mol Membr Biol** 1996 Jan-Mar;13(1):49–51

A novel DnaJ-like protein in Escherichia coli inserts into the cytoplasmic membrane with a type III topology. Clarke DJ, et al. **Mol Microbiol** 1996 Jun;20(6):1273–86

Degradation by proteases Lon, Clp and HtrA, of Escherichia coli proteins aggregated in vivo by heat shock; HtrA protease action in vivo and in vitro. Laskowska E, et al. **Mol Microbiol** 1996 Nov;22(3):555–71

Microbial pathogenesis in cystic fibrosis: co-ordinate regulation of heat-shock response and conversion to mucoidy in Pseudomonas aeruginosa. Schurr MJ, et al. **Mol Microbiol** 1997 Apr;24(2):411–20

Noncoplanar PCB 95 alters microsomal calcium transport by an immunophilin FKBP12-dependent mechanism. Wong PW, et al. **Mol Pharmacol** 1997 May;51(5):693–702

Capturing the misfolds: chaperone-peptide-binding motifs [news; comment] Joachimiak A. **Nat Struct Biol** 1997 Jun; 4(6):430–4. Comment on: Nat Struct Biol 1997 Jun;4(6):477–82.

Dissociation of HSP72 and HSC73 heat shock mRNA inductions after spinal cord ischemia in rabbit. Sakurai M, et al. **Neurosci Lett** 1996 Oct 18;217(2-3):113–6

Neuronal injury in experimental status epilepticus in the rat: role of acidosis. Sasahira M, et al. **Neurosci Lett** 1997 Mar 21;224(3):177–80

Expression of the 27,000 mol. wt heat shock protein following kainic acid-induced status epilepticus in the rat. Plumier JC, et al. **Neuroscience** 1996 Dec;75(3):849–56

Brain tumor: immunohistochemical studies on the stress-response proteins, p53 protein and proliferating cell nuclear antigen. Kato S, et al. **Noshuyo Byori** 1995; 12(2):125–32

Bcl-2 and Hsp27 act at different levels to suppress programmed cell death. Guénal I, et al. **Oncogene** 1997 Jul 17;15(3):347–60

Carcinosarcoma of the urinary bladder: expression of epithelial markers and different expression of heat shock proteins between epithelial and sarcomatous elements. Kamishima T, et al. **Pathol Int** 1997 Feb-Mar; 47(2-3):166–73

Solute composition and heat shock proteins in rat renal medulla. Ohno A, et al. **Pflugers Arch** 1997 May; 434(1):117–22

The response of heat shock proteins 25 and 72 to ischaemia in different kidney zones. Schober A, et al. **Pflugers Arch** 1997 Jul;434(3):292–9

Accumulation of 19-kDa plasma membrane polypeptide during induction of freezing tolerance in wheat suspension-cultured cells by abscisic acid. Koike M, et al. **Plant Cell Physiol** 1997 Jun;38(6):707–16

A sigma32 mutant with a single amino acid change in the highly conserved region 2.2 exhibits reduced core RNA polymerase affinity. Joo DM, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):4907–12

A three-hybrid system for detecting small ligand-protein receptor interactions. Licitra EJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12817–21

Two eukaryote-specific regions of Hsp82 are dispensable for its viability and signal transduction functions in yeast. Louvion JF, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13937–42

The molecular chaperone hsp40 regulates the activity of P58IPK, the cellular inhibitor of PKR. Melville MW, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):97–102

Neurotrophic immunophilin ligands stimulate structural and functional recovery in neurodegenerative animal models. Steiner JP, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):2019–24

The heat shock stress response after brain lesions: induction of 72 kDa heat shock protein (cell types involved, axonal transport, transcriptional regulation) and protein synthesis inhibition. Planas AM, et al. **Prog Neurobiol** 1997 Apr; 51(6):607–36 (256 ref.)

Dynamic NMR studies of ligand-receptor interactions: design and analysis of a rapidly exchanging complex of FKBP-12/FK506 with a 24 kDa calcineurin fragment. Fejzo J, et al. **Protein Sci** 1996 Sep;5(9):1917–21

Template-based docking of a prolactin receptor proline-rich motif octapeptide to FKBP12: implications for cytokine receptor signaling. Soman KV, et al. **Protein Sci** 1997 May; 6(5):999–1008

Interaction of the thiol-dependent reductase ERp57 with nascent glycoproteins. Oliver JD, et al. **Science** 1997 Jan 3;275(5296):86–8

Discovering high-affinity ligands for proteins: SAR by NMR. Shuker SB, et al. **Science** 1996 Nov 29; 274(5292):1531–4

Discovery of FK 506 analogues that are nontoxic to mouse pancreatic beta cells in vitro but show diabetogenic potential when administered to the rat. Mollison KW, et al. **Transplant Proc** 1996 Dec;28(6):3185–8

Elevated concentrations of the small stress protein HSP27 in rat renal tumors. Takashi M, et al. **Urol Res** 1997; 25(3):173–7

[Expression pattern of the carbon monoxide generating stress protein (HSP-32/HO-1) in parenchymatous and non-parenchymatous liver cells after hemorrhagic shock] Wanner GA, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:737–41 (Eng. Abstr.) **(Ger)**

[Release of protein into the extracellular space as a nonspecific response to stress in Escherichia coli] Roshchina EK, et al. **Mikrobiologiia** 1997 Mar-Apr; 66(2):179–84 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effect of yeast and human DnaJ homologs on clathrin uncoating by 70 kilodalton heat shock protein. King C, et al. **Biochemistry** 1997 Apr 8;36(14):4067–73

Involvement of heat shock factor in regulating transcriptional activation of MDR1 gene in multidrug-resistant cells. Kim SH, et al. **Cancer Lett** 1997 May 1;115(1):9–14

Mechanism of TGFbeta receptor inhibition by FKBP12. Chen YG, et al. **EMBO J** 1997 Jul 1;16(13):3866–76

Isolation and characterization of a 14.5-kDa trichloroacetic-acid-soluble translational inhibitor protein from human monocytes that is upregulated upon cellular differentiation. Schmiedeknecht G, et al. **Eur J Biochem** 1996 Dec 1;242(2):339–51

Antigen-specific T cell receptor antagonism by antigen-presenting cells treated with the hemolysin of Listeria monocytogenes: a novel type of immune escape. Darji A, et al. **Eur J Immunol** 1997 Jul;27(7):1696–703

Pre-exposure to heat shock inhibits peroxynitrite-induced activation of poly(ADP) ribosyltransferase and protects against peroxynitrite cytotoxicity in J774 macrophages. Szabó C, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):221–6

T-cell anergy induced by antigen presenting cells treated with the hemolysin of Listeria monocytogenes. Darji A, et al. **Immunol Lett** 1997 Jun 1;57(1-3):33–7

Cytokine and adhesion molecule expression in human monocytes and endothelial cells stimulated with bacterial heat shock proteins. Galdiero M, et al. **Infect Immun** 1997 Feb;65(2):699–707

TNF-alpha, IL-1 alpha, IL-6 and ICAM-1 expression in human keratinocytes stimulated in vitro with Escherichia coli heat-shock proteins. Marcatili A, et al. **Microbiology** 1997 Jan;143 (Pt 1):45–53

Influence of the GroE molecular chaperone machine on the in vitro refolding of Escherichia coli beta-galactosidase. Ayling A, et al. **Protein Sci** 1996 Mar;5(3):478–87

T cells from rejected human kidney allografts respond to heat shock protein 72. Trieb K, et al. **Transpl Immunol** 1996 Mar;4(1):43–5

PHYSIOLOGY

Escherichia coli defects caused by null mutations in dnaK and dnaJ genes. Paciorek J, et al. **Acta Microbiol Pol** 1997; 46(1):7–17

HSP27 elevated in mild allergic inflammation protects airway epithelium from H2SO4 effects. Hastie AT, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):L401–9

Heat shock response--pathophysiological implications. Leppä S, et al. **Ann Med** 1997 Feb;29(1):73–8 (50 ref.)

Myocardial adaptation, stress proteins, and the second window of protection. Marber MS, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:123–41 (98 ref.)

Stress proteins and atherosclerosis. Roma P, et al. **Atherosclerosis** 1996 Dec 20;127(2):147-54 (97 ref.)
Structural alterations of the mitotic apparatus induced by the heat shock response in Drosophila cells. Debec A, et al. **Biol Cell** 1997 Mar;89(1):67-78
Subconductance states in single-channel activity of skeletal muscle ryanodine receptors after removal of FKBP12. Ahern GP, et al. **Biophys J** 1997 Jan;72(1):146-62
Heat shock proteins protect cultured fibroblasts from the cytotoxic effects of MPP+. Freyaldenhoven TE, et al. **Brain Res** 1996 Sep 30;735(1):42-9
HSP gene expression and HSF2 in mouse development. Loones MT, et al. **Cell Mol Life Sci** 1997 Feb;53(2):179-90 (119 ref.)
Heat shock and the role of the HSPs during neural plate induction in early mammalian CNS and brain development. Walsh D, et al. **Cell Mol Life Sci** 1997 Feb;53(2):198-211 (93 ref.)
Recent literature on cell stress & chaperones. **Cell Stress Chaperones** 1996 Jun;1(2):151-4
Transient accumulation, phosphorylation and changes in the oligomerization of Hsp27 during retinoic acid-induced differentiation of HL-60 cells: possible role in the control of cellular growth and differentiation. Chaufour S, et al. **Cell Stress Chaperones** 1996 Dec;1(4):225-35
Stress protein research in transplantation. Report on presentations at the Fourth Basic Sciences Symposium of the Transplantation Society. Duquesnoy RJ. **Cell Stress Chaperones** 1996 Apr;1(1):2-4
Molecular chaperones and the heat shock response at Cold Spring Harbor. Hightower LE, et al. **Cell Stress Chaperones** 1997 Mar;2(1):1-11 (21 ref.)
Enhancement of glucocorticoid receptor-mediated gene expression by cellular stress: evidence for the involvement of a heat shock-initiated factor or process during recovery from stress. Hu JL, et al. **Cell Stress Chaperones** 1996 Sep; 1(3):197-205
Oxidative stress-induced actin reorganization mediated by the p38 mitogen-activated protein kinase/heat shock protein 27 pathway in vascular endothelial cells. Huot J, et al. **Circ Res** 1997 Mar;80(3):383-92
Heat shock protein 70 messenger RNA reflects the severity of ischemia/hypoxia-reperfusion injury in the perfused rat liver. Aoe T, et al. **Crit Care Med** 1997 Feb;25(2):324-9
Induction of the heat shock response prevents tissue injury during acute inflammation of the rat ileum. Stojadinovic A, et al. **Crit Care Med** 1997 Feb;25(2):309-17
Stress proteins in reproductive toxicology. Dix DJ. **Environ Health Perspect** 1997 Apr;105(4):436-8
Distinct repression of translation by wortmannin and rapamycin. Pedersen S, et al. **Eur J Biochem** 1997 Jul 1; 247(1):449-56
Heat-shock protein 27 (HSP27) and its role in female reproductive organs. Devaja O, et al. **Eur J Gynaecol Oncol** 1997;18(1):16-22 (126 ref.)
K+ is an indispensable cofactor for GrpE stimulation of ATPase activity of DnaK x DnaJ complex from Thermus thermophilus. Motohashi K, et al. **FEBS Lett** 1997 Aug 4;412(3):633-6
Listeria monocytogenes infection of HeLa cells results in listeriolysin O-mediated transient activation of the Raf-MEK-MAP kinase pathway. Weiglein I, et al. **FEMS Microbiol Lett** 1997 Mar 15;148(2):189-95
Regulation and conservation of the heat-shock transcription factor sigma32. Yura T. **Genes Cells** 1996 Mar;1(3):277-84 (50 ref.)
DnaJ/hsp40 chaperone domain of SV40 large T antigen promotes efficient viral DNA replication. Campbell KS, et al. **Genes Dev** 1997 May 1;11(9):1098-110
Hyperthermia and hypoxia increase tolerance of retinal ganglion cells to anoxia and excitotoxicity. Caprioli J, et al. **Invest Ophthalmol Vis Sci** 1996 Nov;37(12):2376-81
Regulation of the dnaK operon of Streptomyces coelicolor A3(2) is governed by HspR, an autoregulatory repressor protein. Bucca G, et al. **J Bacteriol** 1997 Oct; 179(19):5999-6004
CotM of Bacillus subtilis, a member of the alpha-crystallin family of stress proteins, is induced during development and participates in spore outer coat formation. Henriques AO, et al. **J Bacteriol** 1997 Mar;179(6):1887-97
Heat shock protein 27 stimulates recovery of RNA and protein synthesis following a heat shock. Carper SW, et al. **J Cell Biochem** 1997 Aug 1;66(2):153-64
The molecular chaperone Hsp78 confers compartment-specific thermotolerance to mitochondria. Schmitt M, et al. **J Cell Biol** 1996 Sep;134(6):1375-86
Thermotolerance expression in mitotic CHO cells without increased translation of heat shock proteins. Borrelli MJ, et al. **J Cell Physiol** 1996 Dec;169(3):420-8
Aldosterone and dexamethasone stimulate calcineurin activity through a transcription-independent mechanism involving steroid receptor-associated heat shock proteins. Tumlin JA, et al. **J Clin Invest** 1997 Mar 15;99(6):1217-23
The listerial exotoxins listeriolysin and phosphatidylinositol-specific phospholipase C synergize to elicit endothelial cell phosphoinositide metabolism. Sibelius U, et al. **J Immunol** 1996 Nov 1;157(9):4055-60
Cultured neonatal rat heart cells can be preconditioned by ischemia, but not by heat shock. The role of stress proteins. Ovelgönne JH, et al. **J Mol Cell Cardiol** 1996 Aug; 28(8):1617-29
Chaperoning tumour antigens into the immune system [news] Featherstone C. **Lancet** 1996 Nov 23;348(9039):1438
Small heat shock protein suppression of Vpr-induced cytoskeletal defects in budding yeast. Gu J, et al. **Mol Cell Biol** 1997 Jul;17(7):4033-42
Leishmania major Hsp100 is required chiefly in the mammalian stage of the parasite. Hübel A, et al. **Mol Cell Biol** 1997 Oct;17(10):5987-95
Stationary-phase regulation of the Saccharomyces cerevisiae SOD2 gene is dependent on additive effects of HAP2/3/4/5- and STRE-binding elements. Flattery-O'Brien JA, et al. **Mol Microbiol** 1997 Jan; 23(2):303-12
Apoptosis of mouse dendritic cells is triggered by listeriolysin, the major virulence determinant of Listeria monocytogenes. Guzmán CA, et al. **Mol Microbiol** 1996 Apr;20(1):119-26
The Escherichia coli phage-shock-protein (psp) operon. Model P, et al. **Mol Microbiol** 1997 Apr;24(2):255-61 (50 ref.)
Effect of the deletion of the sigma 32-dependent promoter (P1) of the Escherichia coli topoisomerase I gene on thermotolerance. Qi H, et al. **Mol Microbiol** 1996 Aug; 21(4):703-11
Cellular stress response: stress proteins--physiology and implications for cancer. Benndorf R, et al. **Recent Results Cancer Res** 1997;143:129-44 (73 ref.)
Chaperone function of Hsp90-associated proteins [see comments] Bose S, et al. **Science** 1996 Dec 6; 274(5293):1715-7. Comment in: Science 1996 Dec 6;274(5293):1613-4.
Heat shock pretreatment prevents hydrogen peroxide injury of pulmonary endothelial cells and macrophages in culture. Wang YR, et al. **Shock** 1996 Aug;6(2):134-41
Expression of the 25-kDa heat-shock protein (HSP27) correlates with resistance to the toxicity of cadmium chloride, mercuric chloride, cis-platinum(II)-diammine dichloride, or sodium arsenite in mouse embryonic stem cells transfected with sense or antisense HSP27 cDNA. Wu W, et al. **Toxicol Appl Pharmacol** 1996 Nov; 141(1):330-9
HSP100/Clp proteins: a common mechanism explains diverse functions. Schirmer EC, et al. **Trends Biochem Sci** 1996 Aug;21(8):289-96 (50 ref.)
[Modification of the immune system by heat shock protein induced by bacterial infection] Nishimura H, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):578-81 (8 ref.) **(Jpn)**
[Stress proteins and autoimmune diseases] Minota S. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1048-54 (10 ref.) **(Jpn)**
[Autoimmune diseases and stress proteins] Minota S. **Rinsho Byori** 1997 Jan;45(1):19-26 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Receptor mechanisms of glucocorticoid and antiglucocorticoid effects] Golikov PP. **Vopr Med Khim** 1996 Jul-Sep;42(3):184-92 (76 ref.) (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

UVB irradiation induces changes in cellular localization and phosphorylation of mouse HSP27. Nozaki J, et al. **Photochem Photobiol** 1997 May;65(5):843-8

THERAPEUTIC USE

Hsp60 peptide therapy of NOD mouse diabetes induces a Th2 cytokine burst and downregulates autoimmunity to various beta-cell antigens. Elias D, et al. **Diabetes** 1997 May;46(5):758-64

HEAT-SHOCK PROTEINS 10 see **CHAPERONIN 10**

HEAT-SHOCK PROTEINS 60 see **CHAPERONIN 60**

HEAT-SHOCK PROTEINS 70

A hitchhiker's guide to the human Hsp70 family. Tavaria M, et al. **Cell Stress Chaperones** 1996 Apr;1(1):23-8 (27 ref.)

ANALYSIS

Identification and characterization of a constitutive HSP75 in sea urchin embryos. Sconzo G, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):24-9
Identification and characterization of a heat shock protein 70 family member in channel catfish (Ictalurus punctatus). Luft JC, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):169-74
Levels of 70-kDa heat shock protein through the cell cycle in several mammalian cell lines. Hang H, et al. **Cytometry** 1996 Dec 1;25(4):367-73
The different expression of proteins recognized by monoclonal anti-heat shock protein 70 (hsp70) antibody in human colonic diseases. Stulík J, et al. **Electrophoresis** 1997 Mar-Apr;18(3-4):625-8
Expression and activation of tissue transglutaminase in apoptotic cells of involuting rodent mammary tissue. Nemes Z Jr, et al. **Eur J Cell Biol** 1996 Jun;70(2):125-33
Cloning and some novel characteristics of mitochondrial Hsp70 from Chinese hamster cells. Singh B, et al. **Exp Cell Res** 1997 Aug 1;234(2):205-16
Characterization and cellular distribution of heat-shock proteins HSP70 and HSP60 in Trypanosoma cruzi. Giambiagi-deMarval M, et al. **Exp Parasitol** 1996 Aug; 83(3):335-45
Human stress protein response to formaldehyde exposure. Dietrich CJ, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):518-9
Biochemical analysis of the stress protein response in human oesophageal epithelium. Hopwood D, et al. **Gut** 1997 Aug; 41(2):156-63
Potential role of HSP70 as an indicator of response to radiation and hyperthermia treatments for recurrent breast cancer [letter; comment] Liu FF, et al. **Int J Hyperthermia** 1996 Mar-Apr;12(2):301-2. Comment on: Int J Hyperthermia 1996 Mar-Apr;12(2):197-208; discussion 209-10.
Heat-shock and cadmium chloride increase the vimentin mRNA and protein levels in U-937 human promonocytic cells. Vilaboa NE, et al. **J Cell Sci** 1997 Jan;110 (Pt 2):201-7
HSP70 and HSP90 homologs are associated with tubulin in hetero-oligomeric complexes, cilia and the cortex of Tetrahymena. Williams NE, et al. **J Cell Sci** 1997 Jul;110 (Pt 14):1665-72
Multiple sclerosis: altered expression of 70- and 27-kDa heat shock proteins in lesions and myelin. Aquino DA, et al. **J Neuropathol Exp Neurol** 1997 Jun;56(6):664-72
Immunological detection and subcellular localization of Hsp70 and Hsp60 homologs in Trichomonas vaginalis. Bozner P. **J Parasitol** 1997 Apr;83(2):224-9
Immunocytochemical expression of the 70 kD heat shock protein in ischaemic bowel disease. Lu XP, et al. **J Pathol** 1996 Aug;179(4):409-13
Monoclonal and polyclonal development of digestive tract tumors in chimeric mice. Farber E. **Jpn J Cancer Res** 1997 Feb;88(2):inside front cover

ANTAGONISTS & INHIBITORS

Effect of yeast and human DnaJ homologs on clathrin uncoating by 70 kilodalton heat shock protein. King C, et al. **Biochemistry** 1997 Apr 8;36(14):4067-73
N-Ethylmaleimide inactivates a nucleotide-free Hsp70 molecular chaperone. Liu Q, et al. **J Biol Chem** 1996 Nov 22;271(47):29937-44

BIOSYNTHESIS

Expression of heat shock protein 72 on peripheral blood mononuclear cells from patients with pustulosis palmaris et plantaris. Tamada Y, et al. **Acta Derm Venereol** 1996 Mar;76(2):115-7
Survival of human epidermal keratinocytes after short-duration high temperature: synthesis of HSP70 and IL-8. Bowman PD, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):C1988-94
Heat stress protects aged hypertrophied and nonhypertrophied rat hearts against ischemic damage. Cornelussen RN, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1333-41
Induction of heat shock protein 70 protects intestinal epithelial IEC-18 cells from oxidant and thermal injury. Musch MW, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C429-36
Continuous contractile activity induces fiber type specific expression of HSP70 in skeletal muscle. Neufer PD, et al. **Am J Physiol** 1996 Dec;271(6 Pt 1):C1828-37
Strong expression of heat shock proteins in growth plate cartilage, an immunohistochemical study of HSP28, HSP70 and HSP110. Vanmuylder N, et al. **Anat Embryol (Berl)** 1997 Apr;195(4):359-62
Tumor necrosis factor-alpha-induced cytoprotective mechanisms in cardiomyocytes. Analysis by mRNA phenotyping. Sharma HS, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:267-81
Induction of DnaK and GroEL heat shock proteins by fluoroquinolones in Escherichia coli. Mizushima T, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):193-5
Induction of heat shock proteins DnaK, GroEL, and GroES by salt stress in Lactococcus lactis. Kilstrup M, et al. **Appl Environ Microbiol** 1997 May;63(5):1826-37
Regional distribution of HSP70 proteins after myocardial infraction. Kilgore JL, et al. **Basic Res Cardiol** 1996 Jul-Aug;91(4):283-8
Simvastatin modulates the heat shock response and cytotoxicity mediated by oxidized LDL in cultured human endothelial smooth muscle cells. Pirillo A, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):437-41
Influence of heat shock protein 70 and metallothionein induction by zinc-bis-(DL-hydrogenaspartate) on the release of inflammatory mediators in a porcine model of recurrent endotoxemia. Klosterhalfen B, et al. **Biochem Pharmacol** 1996 Oct 25;52(8):1201-10
Induction of the stress protein Grp75 by amino acid deprivation in CHO cells does not involve an increase in Grp75 mRNA levels. Heal RD, et al. **Biochem Soc Trans** 1996 Aug;24(3):479S
Induction of the stress protein Grp75 by amino acid deprivation in CHO cells does not involve an increase in Grp75 mRNA levels. Heal RD, et al. **Biochim Biophys Acta** 1997 Jun 5;1357(1):31-40
Effects of hyperosmotic NaCl and glycerol stress on stress response of human HeLa cells. Hatayama T, et al. **Biol Pharm Bull** 1997 Jun;20(6):605-12
Elevated temperature increases heat shock protein 70

synthesis in bovine two-cell embryos and compromises function of maturing oocytes. Edwards JL, et al. **Biol Reprod** 1996 Aug;55(2):341–6

Effect of acute heat stress on heat shock protein 70 messenger RNA and on heat shock protein expression in the liver of broilers. Gabriel JE, et al. **Br Poult Sci** 1996 May; 37(2):443–9

Brain-gut induction of heat shock protein (HSP) 70 mRNA by psychophysiological stress in rats. Fukudo S, et al. **Brain Res** 1997 May 16;757(1):146–8

Effects of neuroprotective dose of fructose-1,6-bisphosphate on hypoxia-induced expression of c-fos and hsp70 mRNA in neonatal rat cerebrocortical slices. Hasegawa K, et al. **Brain Res** 1997 Mar 7;750(1–2):1–10

Differential expression of heat shock 70 proteins in primary cultures from rat cerebellum. Voisin PJ, et al. **Brain Res** 1996 Nov 11;739(1–2):215–34

Differential induction of heat shock mRNA in oligodendrocytes, microglia, and astrocytes following hyperthermia. Foster JA, et al. **Brain Res Mol Brain Res** 1997 May;45(2):207–18

Differential expression of c-fos, Hsp70 and Hsp27 after photothrombotic injury in the rat brain. Plumier JC, et al. **Brain Res Mol Brain Res** 1997 May;45(2):239–46

Differential effects of axotomy on the in vivo synthesis of the stress-inducible and constitutive 70-kDa heat-shock proteins in rat dorsal root ganglia. Tedeschi B, et al. **Brain Res Mol Brain Res** 1997 May;45(2):199–206

Heat shock-enhanced T cell apoptosis with heat shock protein 70 on T cell surface in multicentric Castleman's disease. Ishiyama T, et al. **Clin Exp Immunol** 1996 Nov; 106(2):351–6

Heat shock-induced inhibition of acute steroidogenesis in MA-10 cells is associated with inhibition of the synthesis of the steroidogenic acute regulatory protein. Liu Z, et al. **Endocrinology** 1997 Jul;138(7):2722–8

Induction of heat shock protein 70 genes in human lymphocytes during fever therapy. Dressel R, et al. **Eur J Clin Invest** 1996 Jun;26(6):499–505

Constitutive expression of heat shock proteins 70 and 90 in rat cerebellum. Stacchiotti A, et al. **Eur J Histochem** 1997; 41(2):127–32

Gradation of kainic acid-induced rat limbic seizures and expression of hippocampal heat shock protein-70. Zhang X, et al. **Eur J Neurosci** 1997 Apr;9(4):760–9

Analysis of metal-regulated metallothionein and heat shock gene expression in HeLa-derived cadmium-resistant cells. Cigliano S, et al. **Exp Cell Res** 1996 Nov 1;228(2):173–80

Variation of heat shock protein 70 through the cell cycle in HL-60 cells and its relationship to apoptosis. He L, et al. **Exp Cell Res** 1997 Apr 10;232(1):64–71

Partial homology of stress glycoprotein GP62 with HSP70. Jethmalani SM, et al. **Exp Cell Res** 1997 Apr 10;232(1):8–16

Expression analysis of mortalin, a unique member of the Hsp70 family of proteins, in rat tissues. Kaul SC, et al. **Exp Cell Res** 1997 Apr 10;232(1):56–63

The neuronal stress response: nuclear translocation of heat shock proteins as an indicator of hyperthermic stress. Manzerra P, et al. **Exp Cell Res** 1996 Nov 25;229(1):35–47

Expression of endothelin, fibronectin, and mortalin as aging and mortality markers. Kumazaki T, et al. **Exp Gerontol** 1997 Jan-Apr;32(1–2):95–103 (35 ref.)

Role of rebamipide on induction of heat-shock proteins and protection against reactive oxygen metabolite-mediated cell damage in cultured gastric mucosal cells. Hahm KB, et al. **Free Radic Biol Med** 1997;22(4):711–6

Hyperthermia induces heat shock protein expression and protection against cerulein-induced pancreatitis in rats. Wagner AC, et al. **Gastroenterology** 1996 Nov; 111(5):1333–42

Phagocytosis of Pseudomonas aeruginosa fails to elicit heat shock protein expression in human monocytes. Barazzone C, et al. **Inflammation** 1996 Jun;20(3):243–62

Glucose-regulated stresses induce resistance to camptothecin in human cancer cells. Tomida A, et al. **Int J Cancer** 1996 Nov 4;68(3):391–6

Does the chaperone heat shock protein hsp70 play a role in the control of developmental processes? Angelier N, et al. **Int J Dev Biol** 1996 Jun;40(3):521–9

Role of Hsp70 synthesis in the fate of the insulin-receptor complex after heat shock in cultured fetal hepatocytes. Zachayus JL, et al. **J Cell Biochem** 1996 May;61(2):216–29

Tissue-specific differences in heat shock protein hsc70 and hsp70 in the control and hyperthermic rabbit. Manzerra P, et al. **J Cell Physiol** 1997 Feb;170(2):130–7

DNA fragmentation and Prolonged expression of c-fos, c-jun, and hsp70 in kainic acid-induced neuronal cell death in transgenic mice overexpressing human CuZn-superoxide dismutase. Kondo T, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):241–56

DNA fragmentation and HSP70 protein induction in hippocampus and cortex occurs in separate neurons following permanent middle cerebral artery occlusions. States BA, et al. **J Cereb Blood Flow Metab** 1996 Nov; 16(6):1165–75

Nitric oxide induces heat-shock protein 70 expression in vascular smooth muscle cells via activation of heat shock factor 1. Xu Q, et al. **J Clin Invest** 1997 Sep 1; 100(5):1089–97

Tissue-specific variation in Hsp70 expression and thermal damage in Drosophila melanogaster larvae. Krebs RA, et al. **J Exp Biol** 1997 Jul;200 (Pt 14):2007–15

The highly inducible member of the 70 kDa family of heat shock proteins increases canine distemper virus polymerase activity. Oglesbee MJ, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2125–35

IL-1beta depresses expression of the 70-kilodalton heat shock protein and sensitizes glomerular cells to oxidant-initiated apoptosis. Yokoo T, et al. **J Immunol** 1997 Sep 15; 159(6):2886–92

alpha-Melanocyte stimulating hormone downregulates differentiation-driven heat shock protein 70 expression in keratinocytes. Orel L, et al. **J Invest Dermatol** 1997 Apr; 108(4):401–5

Heat stress improves functional recovery and induces synthesis of 27- and 70-kDa heat shock proteins without preserving sarcoplasmic reticulum function in the ischemic rat heart. Kontos MC, et al. **J Mol Cell Cardiol** 1996 Sep; 28(9):1885–94

Time course and regional expression of C-FOS and HSP70 in hippocampus and piriform cortex following soman-induced seizures. Baille-Le Crom V, et al. **J Neurosci Res** 1996 Sep 1;45(5):513–24

Expression of basic fibroblast growth factor mRNA after transient focal ischemia: comparison with expression of c-fos, c-jun, and hsp 70 mRNA. Iwata A, et al. **J Neurotrauma** 1997 Apr;14(4):201–10

Expression of heat shock protein 70 in rat spleen lymphocytes is affected by age but not by food restriction. Pahlavani MA, et al. **J Nutr** 1996 Sep;126(9):2069–75

Thermosensitization of murine FM3A cells by transient incubation at low culture temperatures. Hatayama T, et al. **J Radiat Res (Tokyo)** 1995 Dec;36(4):248–57

Induction of heat shock protein 72kDa expression is associated with attenuation of ischaemia-reperfusion induced microvascular injury. Chen G, et al. **J Surg Res** 1997 May;69(2):435–9

Synergistic cytotoxic effect of quercetin and heat treatment in a lymphoid cell line (OZ) with low HSP70 expression. Fujita M, et al. **Leuk Res** 1997 Feb;21(2):139–45

Growth suppression and induction of heat-shock protein-70 by 9-cis beta-carotene in cervical dysplasia-derived cells. Toba T, et al. **Life Sci** 1997;61(8):839–45

Handling stress does not affect the expression of hepatic heat shock protein 70 and conjugation enzymes in rainbow trout treated with beta-naphthoflavone. Vijayan MM, et al. **Life Sci** 1997;61(2):117–27

Beta 2-agonist-elevated stress response in human bronchial epithelial cells in vivo and in vitro. Hastie AT, et al. **Lung** 1997;175(5):287–98

Effect of hyperthermia on expression of histocompatibility antigens and heat-shock protein molecules on three human ocular melanoma cell lines. Blom DJ, et al. **Melanoma Res** 1997 Apr;7(2):103–9

Monophosphoryl lipid A induces pharmacologic 'preconditioning' in rabbit hearts without concomitant expression of 70-kDa heat shock protein. Yoshida K, et al. **Mol Cell Biochem** 1996 Jun 7;159(1):73–80

SSI1 encodes a novel Hsp70 of the Saccharomyces cerevisiae endoplasmic reticulum. Baxter BK, et al. **Mol Cell Biol** 1996 Nov;16(11):6444–56

Analyses of promoter-proximal pausing by RNA polymerase II on the hsp70 heat shock gene promoter in a Drosophila nuclear extract. Li B, et al. **Mol Cell Biol** 1996 Oct; 16(10):5433–43

Cytokine induction of heat shock protein in human granulosa-luteal cells. Kim AH, et al. **Mol Hum Reprod** 1996 Aug;2(8):549–54

Ontogeny of temperature-regulated heat shock protein 70 synthesis in preimplantation bovine embryos. Edwards JL, et al. **Mol Reprod Dev** 1997 Sep;48(1):25–33

Distinct transcripts are recognized by sense and antisense riboprobes for a member of the murine HSP70 gene family, HSP70.2, in various reproductive tissues. Murashov AK? Wolgemuth DJ. **Mol Reprod Dev** 1996 Jan;43(1):17–24

Neuronal differentiation in PC12 cells is accompanied by diminished inducibility of Hsp70 and Hsp60 in response to heat and ethanol. Dwyer DS, et al. **Neurochem Res** 1996 Jun;21(6):659–66

c-fos antisense oligonucleotide prevents delayed induction of hsp70 mRNA after soman-induced seizures. Baille V, et al. **Neuroreport** 1997 May 27;8(8):1819–22

Over-expression of HSP-70 protects astrocytes from combined oxygen-glucose deprivation. Papadopoulos MC, et al. **Neuroreport** 1996 Jan 31;7(2):429–32

The inducible 70,000 molecular/weight heat shock protein is expressed in the degenerating dentate hilus and piriform cortex after systemic administration of kainic acid in the rat. Armstrong JN, et al. **Neuroscience** 1996 Oct; 74(3):685–93

Induction of glucose-regulated protein (glucose-regulated protein 78/BiP and glucose-regulated protein 94) and heat shock protein 70 transcripts in the immature rat brain following status epilepticus. Little E, et al. **Neuroscience** 1996 Nov;75(1):209–19

Expression of heat-shock-proteins in the differentiation process of chondrocytes. Otsuka G, et al. **Nippon Geka Hokan** 1996 May 1;65(2):39–48

A novel G1-specific enhancer identified in the human heat shock protein 70 gene. Taira T, et al. **Nucleic Acids Res** 1997 May 15;25(10):1975–83

Expression of a 70-kDa heat-shock-related protein during transformation from free-living infective larvae to the parasitic stage in Strongyloides venezuelensis. Tsuji N, et al. **Parasitol Res** 1997;83(1):99–102

Developmental and afterload stress regulation of heat shock proteins in the ovine myocardium. Strandness E, et al. **Pediatr Res** 1997 Jan;41(1):51–6

Cold-induced heat shock protein expression in rat aorta and brown adipose tissue. Matz JM, et al. **Physiol Behav** 1996 Nov;60(5):1369–74

Low dose X-ray irradiation induces stress proteins but does not prevent gastric mucosal lesion. Sato EF, et al. **Physiol Chem Phys Med NMR** 1996;28(2):103–9

Induction of HSP70 and polyubiquitin expression associated with plant virus replication. Aranda MA, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15289–93

Cloning and characterization of rat Ku70: involvement of Ku autoantigen in the heat-shock response. Yang SH, et al. **Radiat Res** 1996 Dec;146(6):603–11

The influence of heat shock protein 70 induction on hemodynamic variables in a porcine model of recurrent endotoxemia. Klosterhalfen B, et al. **Shock** 1997 May; 7(5):358–63

Association of HSP73 with the acquired resistance to uranyl acetate-induced acute renal failure. Mizuno S, et al. **Toxicology** 1997 Feb 28;117(2–3):183–91

Acceleration of hepatocellular energy by idebenone during early reperfusion after cold preservation ameliorates heat shock protein 70 gene expression in a pig liver model. Schütz E, et al. **Transplantation** 1997 Sep 27;64(6):901–7

[Adaptogen ADAPT modulates synthesis of inducible stress protein HSP 70 and increases organism resistance to heat shock] Prodius PA, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):629–31 **(Rus)**

BLOOD

Elevated levels of heat-shock protein 70 (HSP70) in the mononuclear cells of patients with non-insulin-dependent diabetes mellitus. Yabunaka N, et al. **Diabetes Res Clin Pract** 1995 Nov;30(2):143–7

CEREBROSPINAL FLUID

Humoral response to hsp 65 and hsp 70 in cerebrospinal fluid in Parkinson's disease. Fiszer U, et al. **J Neurol Sci** 1996 Jul;139(1):66–70

CHEMISTRY

Construction of cDNA library from liver RNA of heat shocked rats and DNA sequence analysis of the clone containing the 3'-end untranslated region (3'UTR) of the heat inducible gene hsp70.2. Lisowska K, et al. **Acta Biochim Pol** 1996;43(2):313–7

The sugar kinase/heat shock protein 70/actin superfamily: implications of conserved structure for mechanism. Hurley JH. **Annu Rev Biophys Biomol Struct** 1996;25:137–62 (75 ref.)

Endoplasmic reticulum chaperone GRP94 subunit assembly is regulated through a defined oligomerization domain. Wearsch PA, et al. **Biochemistry** 1996 Dec 24; 35(51):16760–9

Molecular cloning of a cDNA encoding a Xenopus laevis 70-kDa heat shock cognate protein, hsc70.II. Ali A, et al. **Biochim Biophys Acta** 1996 Dec 11;1309(3):174–8

Physical interactions between members of the DnaK chaperone machinery: characterization of the DnaK.GrpE complex. Reid KL, et al. **Cell Stress Chaperones** 1996 Jun; 1(2):127–37

Chaperone-assisted protein folding. Martin J, et al. **Curr Opin Struct Biol** 1997 Feb;7(1):41–52 (99 ref.)

Substrate specificity of the DnaK chaperone determined by screening cellulose-bound peptide libraries. Rüdiger S, et al. **EMBO J** 1997 Apr 1;16(7):1501–7

Nucleotide binding to the heat-shock protein DnaK as studied by ESR spectroscopy. Neuhofen S, et al. **Eur J Biochem** 1996 Aug 15;240(1):78–82

Histological and subcellular distribution of 65 and 70 kD heat shock proteins in experimental nephrotoxic injury. Hernádez-Pando R, et al. **Exp Toxicol Pathol** 1995 Dec; 47(6):501–8

Cloning of apg-2 encoding a novel member of heat shock protein 110 family. Kaneko Y, et al. **Gene** 1997 Apr 11; 189(1):19–24

Dimerization characteristics of the 94-kDa glucose-regulated protein. Nemoto T, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):249–56

The mitochondrial hsp70 chaperone system. Effect of adenine nucleotides, peptide substrate, and mGrpE on the oligomeric state of mhsp70. Azem A, et al. **J Biol Chem** 1997 Aug 15;272(33):20901–6

The COOH-terminal peptide binding domain is essential for self-association of the molecular chaperone HSC70. Benaroudj N, et al. **J Biol Chem** 1997 Mar 28; 272(13):8744–51

Functional characterization and purification of an intracellular vitamin D-binding protein in vitamin D-resistant new world primate cells. Amino acid sequence homology with proteins in the hsp-70 family. Gacad MA, et al. **J Biol Chem** 1997 Mar 28;272(13):8433–40

Cer1p, a novel Hsp70-related protein required for posttranslational endoplasmic reticulum translocation in yeast. Hamilton TG, et al. **J Biol Chem** 1996 Nov 29; 271(48):30610–3

A novel hsp110-related gene, apg-1, that is abundantly expressed in the testis responds to a low temperature heat

shock rather than the traditional elevated temperatures. Kaneko Y, et al. **J Biol Chem** 1997 Jan 31;272(5):2640–5

Characterization of a new high-temperature-induced 66-kDa heat-shock protein, antigenically related to heat-shock protein 72. Delpino A, et al. **J Cell Biochem** 1996 Oct; 63(1):51–60

Picture story. One-armed bandit. Felsenfeld AL. **Nat Struct Biol** 1997 May;4(5):338

Interaction of Hsp70 chaperones with substrates. Rüdiger S, et al. **Nat Struct Biol** 1997 May;4(5):342–9 (75 ref.)

Mutations in the C-terminal fragment of DnaK affecting peptide binding. Burkholder WF, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10632–7

Hsc66 and Hsc20, a new heat shock cognate molecular chaperone system from Escherichia coli. Vickery LE, et al. **Protein Sci** 1997 May;6(5):1047–56

Crystal structure of the nucleotide exchange factor GrpE bound to the ATPase domain of the molecular chaperone DnaK. Harrison CJ, et al. **Science** 1997 Apr 18; 276(5311):431–5

DRUG EFFECTS

PCP and ketamine inhibit non-NMDA glutamate receptor mediated hsp70 induction. Sharp JW. **Brain Res** 1996 Jul 29;728(2):215–24

Memantine induces heat shock protein HSP70 in the posterior cingulate cortex, retrosplenial cortex and dentate gyrus of rat brain. Tomitaka S, et al. **Brain Res** 1996 Nov 18; 740(1–2):1–5

Effect of vitamin E deprivation and exercise training on induction of HSP70. Kelly DA, et al. **J Appl Physiol** 1996 Dec;81(6):2379–85

GENETICS

Identification of a microsatellite region composed of a long homopurine/homopyrimidine tract surrounded by AT-rich sequences upstream of the rat stress-inducible hsp 70.1 gene. Lisowska K, et al. **Acta Biochim Pol** 1997; 44(1):147–52

Hsp70 expression in human skeletal muscle after exercise. Puntschart A, et al. **Acta Physiol Scand** 1996 Aug; 157(4):411–7

Stable expression of a human HSP70 gene in a rat myogenic cell line confers protection against endotoxin. Chi SH, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):C1017–21

Endotoxin induces cardiac HSP70 and resistance to endotoxemic myocardial depression in rats. Meng X, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1316–24

Molecular cloning and antigenic mapping of heat-shock protein 70 from the malaria species Plasmodium berghei. Fan JY, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):570–6

Cloning, nucleotide sequence, and regulatory analysis of the Nitrosomonas europaea dnaK gene. Iizumi T, et al. **Appl Environ Microbiol** 1997 May;63(5):1777–84

An assay combining cell culture with reverse transcriptase PCR to detect and determine the infectivity of waterborne Cryptosporidium parvum. Rochelle PA, et al. **Appl Environ Microbiol** 1997 May;63(5):2029–37

Production and characterization of bovine herpesvirus 1 glycoprotein B ectodomain derivatives in an hsp70A gene promoter-based expression system. Li Y, et al. **Arch Virol** 1996;141(10):2019–29

Molecular cloning of a cDNA encoding the amphibian Pleurodeles waltl 70-kDa heat-shock cognate protein. Delelis-Fanien C, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):159–64

Developmentally regulated expression of APG-1, a member of heat shock protein 110 family in murine male germ cells. Kaneko Y, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):113–6

Atomic force microscopy proposes a novel model for stem-loop structure that binds a heat shock protein in the Staphylococcus aureus HSP70 operon. Ohta T, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):730–4

Selective expression of HSP70-1 gene in the adrenal cortex but not in the medulla of thermally stressed rats. Shimizu K, et al. **Biochem Biophys Res Commun** 1997 Apr 17; 233(2):550–4

Identification of sequence similarity between 60 kDa and 70 kDa molecular chaperones: evidence for a common evolutionary background? Flores AI, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):641–7

Mapping protein-DNA interactions with CIS-DDP: chromatin structure of promoter region of D. Melanogaster hsp 70 gene. Belikov SV, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):997–1002

Induction of the stress protein Grp75 by amino acid deprivation in CHO cells does not involve an increase in Grp75 mRNA levels. Heal RD, et al. **Biochem Soc Trans** 1996 Aug;24(3):479S

Characterization of an hsp70 related clone encoding a 33 kDa protein with homology to a protein which associates with polysomes. Chen MS, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):124–6

Expression of different forms of the heat-shock factor during the life cycle of the parasitic helminth Schistosoma mansoni. Levy-Holtzman R, et al. **Biochim Biophys Acta** 1996 Oct 7;1317(1):1–4

Cloning of dnaK and dnaJ homologous genes from a purple non-sulfur bacterium Rhodopseudomonas species. Momma K, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):235–9

Basal expression of stress-inducible hsp70 mRNA detected in hippocampal and cortical neurons of normal rabbit brain. Foster J, et al. **Brain Res** 1996 Jun 10;724(1):73–83

Expression of hsp70 mRNA is induced in the brain of transgenic mice overexpressing human CuZn-superoxide dismutase following transient global cerebral ischemia. Kondo T, et al. **Brain Res** 1996 Oct 21;737(1–2):321–6

H-ras transfection of the rat kidney cell line NRK-52E results in increased induction of c-fos, c-jun and hsp70 following sulofenur treatment. Gu H, et al. **Cancer Lett** 1996 Sep 10;106(2):199–205

Developmental control of heat shock and chaperone gene expression. Hsp 70 genes and heat shock factors during preimplantation phase of mouse development. Christians E, et al. **Cell Mol Life Sci** 1997 Feb;53(2):168–78 (62 ref.)

Amplification and altered expression of the hsc70/U14 snoRNA gene in a heat resistant Chinese hamster cell line. Chen MS, et al. **Cell Stress Chaperones** 1996 Apr;1(1):47–61

Potentiation of heat stress-induced hsp70 expression in vivo by aspirin. Fawcett TW, et al. **Cell Stress Chaperones** 1997 Jun;2(2):104–9

Deleterious consequences of Hsp70 overexpression in Drosophila melanogaster larvae. Krebs RA, et al. **Cell Stress Chaperones** 1997 Mar;2(1):60–71

Stress dose-dependent suppression of heat shock protein gene expression by inhibiting protein synthesis during heat shock treatment. Mizuno S, et al. **Cell Struct Funct** 1997 Feb; 22(1):7–13

HSP70-1 promoter region alleles and susceptibility to rheumatoid arthritis. Quadri SA, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):183–5

Complex multigene family of functionally distinct Hsp70s of yeast. Craig E, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:441–9 (59 ref.)

Isolation and characterization of a cDNA encoding a Xenopus 70-kDa heat shock cognate protein, Hsc70.I. Ali A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Apr;113(4):681–7

Identification and characterization of a novel hsc70-like gene in the human lung tumor cell line HS24. Schulte AM, et al. **DNA Cell Biol** 1997 Mar;16(3):257–68

Remodeling of regulatory nucleoprotein complexes on the Xenopus hsp70 promoter during meiotic maturation of the Xenopus oocyte. Landsberger N, et al. **EMBO J** 1997 Jul 16;16(14):4361–73

Changes in heat shock protein-90 and -70 messenger ribonucleic acid in uterine tissues of the ewe in relation to parturition and regulation by estradiol and progesterone. Wu WX, et al. **Endocrinology** 1996 Dec;137(12):5685–93

HSP70-Hom NcoI polymorphism and HLA-associations in the Finnish population and in patients with ankylosing spondylitis or reactive arthritis. Westman P, et al. **Eur J Immunogenet** 1994 Apr;21(2):81–90

Expression of hsc 70, but not hsp 70, in human third molar dental pulp. Sens DA, et al. **Eur J Oral Sci** 1997 Jun; 105(3):271–7

Cloning and some novel characteristics of mitochondrial Hsp70 from Chinese hamster cells. Singh B, et al. **Exp Cell Res** 1997 Aug 1;234(2):205–16

Transcription of the Leishmania major Hsp70-I gene locus does not proceed through the noncoding region. Dresel A, et al. **Exp Parasitol** 1997 Jul;86(3):206–12

Molecular analysis of the Rhodobacter capsulatus chaperone dnaKJ operon: purification and characterization of DnaK. Nickel CM, et al. **Gene** 1997 Jun 19;192(2):251–9

Cloning and characterization of hsc1+, a heat shock cognate gene of the fission yeast Schizosaccharomyces pombe. Oishi K, et al. **Gene** 1996 Nov 28;181(1–2):45–9

A novel HSP70 gene of Schizosaccharomyces pombe that confers K-252a resistance. Usui T, et al. **Gene** 1997 Apr 11;189(1):43–7

Cloning and characterization of a 70 kd heat shock cognate (hsc70) gene from the zebrafish (Danio rerio). Graser RT, et al. **Genetica** 1996–97;98(3):273–6

Response of two heat shock genes to selection for knockdown heat resistance in Drosophila melanogaster. McColl G, et al. **Genetics** 1996 Aug;143(4):1615–27

Localization of STCH to human chromosome 21q11.1. Brodsky G, et al. **Genomics** 1995 Dec 10;30(3):627–8

The Hsp70 heat-shock gene family of the mosquito Anopheles albimanus. Benedict MQ, et al. **Insect Mol Biol** 1993;2(2):93–102

Analysis of heat shock protein 70 in human chromosome 21 containing hybrids. Gabriele T, et al. **Int J Biochem Cell Biol** 1996 Aug;28(8):905–10

Phylogenetic analysis of mycoplasmas based on Hsp70 sequences: cloning of the dnaK (hsp70) gene region of Mycoplasma capricolum. Falah M, et al. **Int J Syst Bacteriol** 1997 Jan;47(1):38–45

Regulation of the dnaK operon of Streptomyces coelicolor A3(2) is governed by HspR, an autoregulatory repressor protein. Bucca G, et al. **J Bacteriol** 1997 Oct; 179(19):5999–6004

Sequencing of heat shock protein 70 (DnaK) homologs from Deinococcus proteolyticus and Thermomicrobium roseum and their integration in a protein-based phylogeny of prokaryotes. Gupta RS, et al. **J Bacteriol** 1997 Jan; 179(2):345–57

The dnaK operon of Bacillus subtilis is heptacistronic. Homuth G, et al. **J Bacteriol** 1997 Feb;179(4):1153–64

Transcriptional organization and regulation of the dnaK and groE operons of Chlamydia trachomatis. Tan M, et al. **J Bacteriol** 1996 Dec;178(23):6983–90

Dominant role of the second heat shock element in expression of the HSP70-1 gene in rat liver after whole body hyperthermia. Konishi T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1021–9

Saccharomyces cerevisiae KAR2 (BiP) gene expression is induced by loss of cytosolic HSP70/Ssa1p through a heat shock element-mediated pathway. Oka M, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):578–84

Structure and expression of the dnaKJ operon of Buchnera, an intracellular symbiotic bacteria of aphid. Sato S, et al. **J Biochem (Tokyo)** 1997 Jul;122(1):41–8

Sequential phosphorylation by mitogen-activated protein kinase and glycogen synthase kinase 3 represses transcriptional activation by heat shock factor-1. Chu B, et al. **J Biol Chem** 1996 Nov 29;271(48):30847–57

The phorbol ester 12-O-tetradecanoylphorbol 13-acetate enhances the heat-induced stress response. Holmberg CI, et al. **J Biol Chem** 1997 Mar 7;272(10):6792–8

Analysis of post-transcriptional regulation operating on transcription products of the tandemly linked Leishmania infantum hsp70 genes. Quijada L, et al. **J Biol Chem** 1997 Feb 14;272(7):4493–9

Sodium salicylate decreases intracellular ATP, induces both heat shock factor binding and chromosomal puffing, but does not induce hsp 70 gene transcription in Drosophila. Winegarden NA, et al. **J Biol Chem** 1996 Oct 25; 271(43):26971–80

The lumenal domain of Sec63p stimulates the ATPase activity of BiP and mediates BiP recruitment to the translocon in Saccharomyces cerevisiae. Corsi AK, et al. **J Cell Biol** 1997 Jun 30;137(7):1483–93

Messenger ribonucleic acid expression of heat shock proteins HSP70 and HSP90 in human endometrium and myometrium during the menstrual cycle. Komatsu T, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1385–9

Heat shock factor-1 protein in heat shock factor-1 gene-transfected human epidermoid A431 cells requires phosphorylation before inducing heat shock protein-70 production. Ding XZ, et al. **J Clin Invest** 1997 Jan 1; 99(1):136–43

In vitro expression of mRNA coding for a Cryptosporidium parvum oocyst wall protein. Mead JR, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):84S–85S

Polymorphism at the dnaK locus of Brucella species and identification of a Brucella melitensis species-specific marker. Cloeckaert A, et al. **J Med Microbiol** 1996 Sep; 45(3):200–5

Adenovirus-mediated gene transfer of a heat shock protein 70 (hsp 70i) protects against simulated ischemia. Mestril R, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2351–8

Correlation of diffusion MRI and heat shock protein in a rat embolic stroke model. Detre JA, et al. **J Neurol Sci** 1997 May 29;148(2):163–9

Intracellular localization of heat shock mRNAs (hsc70 and hsp70) to neural cell bodies and processes in the control and hyperthermic rabbit brain. Foster JA, et al. **J Neurosci Res** 1996 Dec 15;46(6):652–65

Hydrostatic pressure influences mRNA expression of transforming growth factor-beta 1 and heat shock protein 70 in chondrocyte-like cell line. Takahashi K, et al. **J Orthop Res** 1997 Jan;15(1):150–8

Adenovirus vector-mediated gene transduction to chondrocytes: in vitro evaluation of therapeutic efficacy of transforming growth factor-beta 1 and heat shock protein 70 gene transduction. Arai Y, et al. **J Rheumatol** 1997 Sep;24(9):1787–95

Gene expression in liver after toxic injury: analysis of heat shock response and oxidative stress-inducible genes. Schiaffonati L, et al. **Liver** 1997 Aug;17(4):183–91

Identification and functional characterization of conserved promoter elements from glass: a retinal development gene of Drosophila. Liu H, et al. **Mech Dev** 1996 May; 56(1–2):73–82

Molecular characterisation of a cognate 70 kDa heat shock protein of the protozoan Theileria parva. Daubenberger C, et al. **Mol Biochem Parasitol** 1997 Apr;85(2):265–9

Evidence for loss of mitochondria in Microsporidia from a mitochondrial-type HSP70 in Nosema locustae. Germot A, et al. **Mol Biochem Parasitol** 1997 Aug;87(2):159–68

Post-transcriptional control of hsp70 mRNA in Trypanosoma brucei. Häusler T, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):57–71

Single copy Babesia microti hsp70. Jie HB, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):241–6

Induction of HSP70 gene expression by modulation of Ca(+2) ion and cellular p53 protein by curcumin in colorectal carcinoma cells. Chen YC, et al. **Mol Carcinog** 1996 Dec;17(4):224–34

Heat shock gene-expression in HSP-70 and HSF1 gene-transfected human epidermoid A-431 cells. Ding XZ, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):145–52

Evidence for the involvement of mouse heat shock factor 1 in the atypical expression of the HSP70.1 heat shock gene during mouse zygotic genome activation. Christians E, et al. **Mol Cell Biol** 1997 Feb;17(2):778–88

Analyses of promoter-proximal pausing by RNA polymerase II on the hsp70 heat shock gene promoter in a Drosophila nuclear extract. Li B, et al. **Mol Cell Biol** 1996 Oct; 16(10):5433–43

Molecular architecture of the hsp70 promoter after deletion of the TATA box or the upstream regulation region. Weber

JA, et al. **Mol Cell Biol** 1997 Jul;17(7):3799–808

An Hsp70 antisense gene affects the expression of HSP70/HSC70, the regulation of HSF, and the acquisition of thermotolerance in transgenic Arabidopsis thaliana. Lee JH, et al. **Mol Gen Genet** 1996 Aug 27;252(1–2):11–9

The dnaKJ operon belongs to the sigma32–dependent class of heat shock genes in Bradyrhizobium japonicum. Minder AC, et al. **Mol Gen Genet** 1997 Mar 26;254(2):195–206

Heat–inducible promoters for gene therapy [news] Fricker J. **Mol Med Today** 1997 Mar;3(3):94–5

Disruption of hspR, the repressor gene of the dnaK operon in Streptomyces albus G. Grandvalet C, et al. **Mol Microbiol** 1997 Jan;23(1):77–84

Quantitative control of gene expression by nucleocytoplasmic interactions in early mouse embryos: consequence for reprogrammation by nuclear transfer. Chastant S, et al. **Mol Reprod Dev** 1996 Aug;44(4):423–32

Distinct transcripts are recognized by sense and antisense riboprobes for a member of the murine HSP70 gene family, HSP70.2, in various reproductive tissues. Murashov AK? Wolgemuth DJ. **Mol Reprod Dev** 1996 Jan;43(1):17–24

Gene expressions of ubiquitin and hsp70 following focal ischaemia in rat brain. Noga M, et al. **Neuroreport** 1997 Mar 24;8(5):1239–41

Developmental activation of an episomic hsp70 gene promoter in two–cell mouse embryos by transcription factor Sp1. Bevilacqua A, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1333–8

Saccharomyces cerevisiae IRE2/HAC1 is involved in IRE1–mediated KAR2 expression. Nikawa J, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4222–6

A novel G1–specific enhancer identified in the human heat shock protein 70 gene. Taira T, et al. **Nucleic Acids Res** 1997 May 15;25(10):1975–83

A rapid method to study heat shock protein 70–2 gene polymorphism in insulin–dependent diabetes mellitus. Chuang LM, et al. **Pancreas** 1996 Oct;13(3):268–72

Characterisation of a pea hsp70 gene which is both developmentally and stress–regulated. Dhankher OP, et al. **Plant Mol Biol** 1997 May;34(2):345–52

Light–inducible gene HSP70B encodes a chloroplast–localized heat shock protein in Chlamydomonas reinhardtii. Drzymalla C, et al. **Plant Mol Biol** 1996 Sep;31(6):1185–94

Presence of a mitochondrial–type 70–kDa heat shock protein in Trichomonas vaginalis suggests a very early mitochondrial endosymbiosis in eukaryotes. Germot A, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14614–7

Structure and expression of a rice hsp70 gene. Wang Q, et al. **Sci China C Life Sci** 1996 Jun;39(3):291–9

Heat shock protein 70 gene polymorphisms in rheumatoid arthritis. Vinasco J, et al. **Tissue Antigens** 1997 Jul; 50(1):71–3

Modulation of stress protein (hsp27 and hsp70) expression in CD4+ lymphocytic cells following acute infection with human immunodeficiency virus type–1. Wainberg Z, et al. **Virology** 1997 Jul 7;233(2):364–73

Beet pseudo–yellows virus is an authentic closterovirus. Coutts RH, et al. **Virus Genes** 1996;13(2):179–81

Molecular cloning of a Candida albicans gene (SSB1) coding for a protein related to the Hsp70 family. Maneu V, et al. **Yeast** 1997 Jun 15;13(7):677–81

IMMUNOLOGY

Humoral immune response to the 72 kDa heat shock protein from Plasmodium falciparum in populations at hypoendemic areas of malaria in western Brazilian Amazon. Alexandre CO, et al. **Acta Trop** 1997 Apr 15;64(3–4):155–66

Molecular cloning and antigenic mapping of heat–shock protein 70 from the malaria species Plasmodium berghei. Fan JY, et al. **Am J Trop Med Hyg** 1996 Nov;55(5):570–6

Intracellularly applied anti–P70 antibody blocks the induction of abnormal membrane properties by pentylenetetrazole in identified Euhadra neurons. Onozuka M, et al. **Brain Res** 1996 Apr 15;716(1–2):187–91

Identification of the C–terminal region of 70 kDa heat shock protein from Leishmania (Viannia) braziliensis as a target for the humoral immune response [published erratum appears in Cell Stress Chaperones 1996 Dec;1(4):263] Amorim AG, et al. **Cell Stress Chaperones** 1996 Sep; 1(3):177–87

Molecular cloning and expression of a Penicillium citrinum allergen with sequence homology and antigenic crossreactivity to a hsp 70 human heat shock protein. Shen HD, et al. **Clin Exp Allergy** 1997 Jun;27(6):682–90

An unique CD4+CD8+ intestinal intraepithelial lymphocyte specific for DnaK (Escherichia coli HSP70) may be selected by intestinal microflora of rats. Kimura Y, et al. **Immunobiology** 1996–97;196(5):550–66

Mapping of the linear antigenic determinants of the Leishmania infantum hsp70 recognized by leishmaniasis sera. Quijada L, et al. **Immunol Lett** 1996 Sep;52(2–3):73–9

Delayed–type hypersensitivity elicited by synthetic peptides complexed with Mycobacterium tuberculosis hsp 70. Roman E, et al. **Immunology** 1997 Jan;90(1):52–6

Synthetic peptides non–covalently bound to bacterial hsp 70 elicit peptide–specific T–cell responses in vivo. Román E, et al. **Immunology** 1996 Aug;88(4):487–92

Human T–cell clones to the 70–kilodalton heat shock protein of Mycobacterium leprae define mycobacterium–specific epitopes rather than shared epitopes. Adams E, et al. **Infect Immun** 1997 Mar;65(3):1061–70

Cellular immune responses to recombinant heat shock protein 70 from Histoplasma capsulatum. Allendoerfer R, et al. **Infect Immun** 1996 Oct;64(10):4123–8

A 77–kilodalton protein of Cryptococcus neoformans, a member of the heat shock protein 70 family, is a major antigen detected in the sera of mice with pulmonary cryptococcosis. Kakeya H, et al. **Infect Immun** 1997 May; 65(5):1653–8

The immune response to mycobacterial 70–kDa heat shock proteins frequently involves autoreactive T cells and is quantitatively disregulated in multiple sclerosis. Salvetti M, et al. **J Neuroimmunol** 1996 Apr;65(2):143–53

Comparison of anti–heat shock protein 70 (anti–hsp70) and anti–68–kDa inner ear protein in the sera of patients with Meniere's disease. Shin SO, et al. **Laryngoscope** 1997 Feb; 107(2):222–7

Heat shock cognate protein 71–associated peptides function as an epitope for Toxoplasma gondii–specific CD4+ CTL. Yang TH, et al. **Microbiol Immunol** 1997;41(7):553–61

The highly immunogenic enolase and Hsp70p are adventitious Candida albicans cell wall proteins. Eroles P, et al. **Microbiology** 1997 Feb;143 (Pt 2):313–20

Serological reactivity to heat shock protein 70 in patients with hydatid disease. Colebrook AL, et al. **Parasite Immunol** 1997 Jan;19(1):41–6

During canine viscero–cutaneous leishmaniasis the anti–Hsp70 antibodies are specifically elicited by the parasite protein. Quijada L, et al. **Parasitology** 1996 Mar; 112 (Pt 3):277–84

Heat–shock–proteins–antibodies in patients with Helicobacter pylori associated chronic gastritis. Leri O, et al. **Riv Eur Sci Med Farmacol** 1996 Mar–Apr;18(2):45–7

Identification of two types of autoreactive T lymphocyte clones cultured from cardiac allograft–infiltrating cells incubated with recombinant mycobacterial heat shock protein 71. Liu K, et al. **Transpl Immunol** 1997 Mar; 5(1):57–65

gamma delta T–lymphocytes and anti–heat shock protein reactivity in bovine leukemia virus infected cattle. Ungar–Waron H, et al. **Vet Immunol Immunopathol** 1996 May;51(1–2):79–87

ISOLATION & PURIFICATION

DnaK3, one of the three DnaK proteins of cyanobacterium Synechococcus sp. PCC7942, is quantitatively detected in the thylakoid membrane. Nimura K, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):334–40

Purification of immunogenic heat shock protein 70–peptide complexes by ADP–affinity chromatography. Peng P, et al. **J Immunol Methods** 1997 May 12;204(1):13–21

Localization of inducible heat shock protein mRNA in the guinea pig cochlea with a nonradioactive in situ hybridization technique. Gower VC, et al. **Laryngoscope** 1997 Feb;107(2):228–32

Purification and partial molecular characterization of GRP94, an ER resident chaperone. Wearsch PA, et al. **Protein Expr Purif** 1996 Feb;7(1):114–21

Identification and characterization of cytosolic Hansenula polymorpha proteins belonging to the Hsp70 protein family. Titorenko VI, et al. **Yeast** 1996 Jul;12(9):849–57

METABOLISM

Regulation of HSP70 by PTH: a model of gene regulation not mediated by changes in cAMP levels. Fukayama S, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C121–9

HSP induction inhibits iNOS mRNA expression and attenuates hypotension in endotoxin–challenged rats. Hauser GJ, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2529–35

Expression of heat shock protein 70 (HSP70) and EBV latent membrane protein 1 (LMP1) in Reed–Sternberg cells of Hodgkin's disease. Takahashi H, et al. **Anal Cell Pathol** 1996 Nov;12(2):71–83

Expression of p53 and hsp70 in relation to apoptosis during Meckel's cartilage development in the mouse. Trichilis A, et al. **Anat Embryol (Berl)** 1997 Aug;196(2):107–13

HSP 70 kDa dynamics in animals undergoing heat stress superimposed on heat acclimation. Horowitz M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:617–9

Immunohistochemical study of HSP–70 in two basic leprosy groups. Aroni K, et al. **Arch Dermatol Res** 1996 May; 288(5–6):252–4

DnaJ potentiates the interaction between DnaK and alpha–helical peptides. de Crouy–Chanel A, et al. **Biochem Biophys Res Commun** 1997 Apr 28;233(3):627–30

Protein glycosylation in a heat–resistant rat fibroblast cell model expressing human HSP70. Henle KJ, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):26–32

Intracellular distribution of stress glycoproteins in a heat–resistant cell model expressing human HSP70. Jethmalani SM, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):382–7

Purification of a dichlorophenol–indophenol oxidoreductase from rat and bovine synaptic membranes: tight complex association of a glyceraldehyde–3–phosphate dehydrogenase isoform, TOAD64, enolase–gamma and aldolase C. Bulliard C, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):555–63

Hsp–70 is closely associated with the transferrin receptor in exosomes from maturing reticulocytes. Mathew A, et al. **Biochem J** 1995 Jun 15;308 (Pt 3):823–30

Characterization of human proximal tubular cells after hypoxic preconditioning: constitutive and hypoxia–induced expression of heat shock proteins HSP70 (A, B, and C), HSC70, and HSP90. Turman MA, et al. **Biochem Mol Med** 1997 Feb;60(1):49–58

Heat shock protein 70 expression in skeletal muscle. McArdle A, et al. **Biochem Soc Trans** 1996 Aug;24(3):485S

Auxilin–induced interaction of the molecular chaperone Hsc70 with clathrin baskets. Barouch W, et al. **Biochemistry** 1997 Apr 8;36(14):4303–8

Kinetic evidence for peptide–induced oligomerization of the molecular chaperone DnaK at heat shock temperatures. Farr CD, et al. **Biochemistry** 1997 Sep 2;36(35):10793–800

Heat shock protein 80 of Neurospora crassa, a cytosolic molecular chaperone of the eukaryotic stress 90 family, interacts directly with heat shock protein 70. Freitag DG, et al. **Biochemistry** 1997 Aug 19;36(33):10221–9

GrpE accelerates nucleotide exchange of the molecular chaperone DnaK with an associative displacement mechanism. Packschies L, et al. **Biochemistry** 1997 Mar 25;36(12):3417–22

Cooperative action of Hsp70, Hsp90, and DnaJ proteins in protein renaturation. Schumacher RJ, et al. **Biochemistry** 1996 Nov 26;35(47):14889–98

In vitro complex–formation between the molecular chaperone DnaK and staphylococcal protein A derivatives produced in Escherichia coli and its use in the purification of DnaK. Gustavsson K, et al. **Biotechnol Appl Biochem** 1997 Apr;25 (Pt 2):173–80

Heat stress reduces glutamate toxicity in cultured neurons without hsp70 expression. Snider BJ, et al. **Brain Res** 1996 Aug 12;729(2):273–6

Regionally different effects of scopolamine on NMDA antagonist–induced heat shock protein HSP70. Tomitaka SI, et al. **Brain Res** 1997 Jul 25;763(2):255–8

Sense and antisense transcripts of the developmentally regulated murine hsp70.2 gene are expressed in distinct and only partially overlapping areas in the adult brain. Murashov AK, et al. **Brain Res Mol Brain Res** 1996 Apr; 37(1–2):85–95

Evidence for different mechanisms of induction of HSP70i: a comparison of cultured rat cortical neurons with astrocytes. Nishimura RN, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):227–39

Norepinephrine induces cardiac heat shock protein 70 and delayed cardioprotection in the rat through alpha 1 adrenoceptors. Meng X, et al. **Cardiovasc Res** 1996 Aug; 32(2):374–83

Binding of secretory precursor polypeptides to a translocon subcomplex is regulated by BiP. Lyman SK, et al. **Cell** 1997 Jan 10;88(1):85–96

Major stress protein Hsp70 interacts with NF–kB regulatory complex in human T–lymphoma cells. Guzhova IV, et al. **Cell Stress Chaperones** 1997 Jun;2(2):132–9

Increased HSF activation in muscles with a high constitutive Hsp70 expression. Locke M, et al. **Cell Stress Chaperones** 1996 Sep;1(3):189–96

Hsp70 protects macrophages infected with Salmonella choleraesuis against TNF–alpha–induced cell death. Nishimura H, et al. **Cell Stress Chaperones** 1997 Mar; 2(1):50–9

Physical interactions between members of the DnaK chaperone machinery: characterization of the DnaK.GrpE complex. Reid KL, et al. **Cell Stress Chaperones** 1996 Jun; 1(2):127–37

Reactions of protamine with the molecular chaperone DnaK. Witt SN, et al. **Cell Stress Chaperones** 1997 Jun;2(2):110–8

Complex multigene family of functionally distinct Hsp70s of yeast. Craig E, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:441–9 (59 ref.)

Binding sites for Hsp70 molecular chaperones in natural proteins. Gething MJ, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:417–28

Calnexin, calreticulin, and Bip/Kar2p in protein folding. Hebert DN, et al. **Cold Spring Harb Symp Quant Biol** 1995; 60:405–15 (70 ref.)

Molecular chaperones: clasping the prize. Gething MJ. **Curr Biol** 1996 Dec 1;6(12):1573–6 (19 ref.)

Chaperones get Hip. Protein folding. Ziegelhoffer T, et al. **Curr Biol** 1996 Mar 1;6(3):272–5 (20 ref.)

HSP70–2 is required for CDC2 kinase activity in meiosis I of mouse spermatocytes. Zhu D, et al. **Development** 1997 Aug;124(15):3007–14

Sequential action of two hsp70 complexes during protein import into mitochondria. Horst M, et al. **EMBO J** 1997 Apr 15;16(8):1842–9

Binding of mitochondrial precursor proteins to the cytoplasmic domains of the import receptors Tom70 and Tom20 is determined by cytoplasmic chaperones. Komiya T, et al. **EMBO J** 1997 Jul 16;16(14):4267–75

Heat shock disassembles the nucleolus and inhibits nuclear protein import and poly(A)+ RNA export. Liu Y, et al. **EMBO J** 1996 Dec 2;15(23):6750–7

Substrate specificity of the DnaK chaperone determined by screening cellulose–bound peptide libraries. Rüdiger S, et al. **EMBO J** 1997 Apr 1;16(7):1501–7

The nucleotide exchange factor MGE exerts a key function in the ATP–dependent cycle of mt–Hsp70–Tim44 interaction driving mitochondrial protein import. Schneider HC, et al. **EMBO J** 1996 Nov 1;15(21):5796–803

BAG–1 modulates the chaperone activity of Hsp70/Hsc70. Takayama S, et al. **EMBO J** 1997 Aug 15;16(16):4887–96

Stress-response proteins in human pituitary adenomas. Expression of heat-shock protein 72 (HSP-72). Kontogeorgos G, et al. **Endocrine** 1997 Feb;6(1):25–9

Muscle fibre stress in response to exercise: synthesis, accumulation and isoform transitions of 70-kDa heat-shock proteins. Hernando R, et al. **Eur J Biochem** 1997 Jan 15; 243(1–2):460–7

Nucleotide binding to the heat-shock protein DnaK as studied by ESR spectroscopy. Neuhofen S, et al. **Eur J Biochem** 1996 Aug 15;240(1):78–82

Evidence for the existence of a novel mechanism for the nuclear import of Hsc70. Lamian V, et al. **Exp Cell Res** 1996 Oct 10;228(1):84–91

Roles for hsp70 in protein translocation across membranes of organelles. Cyr DM, et al. **EXS** 1996;77:25–40 (75 ref.)

K+ is an indispensable cofactor for GrpE stimulation of ATPase activity of DnaK x DnaJ complex from Thermus thermophilus. Motohashi K, et al. **FEBS Lett** 1997 Aug 4;412(3):633–6

The heat shock factor and mitochondrial Hsp70 are necessary for survival of heat shock in Saccharomyces cerevisiae. Nwaka S, et al. **FEBS Lett** 1996 Dec 16;399(3):259–63

Nuclear translocation of constitutive heat shock protein 70 during S phase in synchronous macroplasmodia of Physarum polycephalum. Gevers M, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):89–94

Phosphorylation of GroEL, DnaK and other proteins from Thiobacillus ferrooxidans grown under different conditions. Seeger M, et al. **FEMS Microbiol Lett** 1996 May 1;138(2–3):129–34

Interaction between quercetin and heat shock. A preliminary study on the chick embryo. Janoutová J, et al. **Folia Biol (Praha)** 1996;42(5):231–4

Astrocyte survival and HSP70 heat shock protein induction following heat shock and acidosis. Narasimhan P, et al. **Glia** 1996 Jun;17(2):147–59

Stress proteins: a future role in cardioprotection? [editorial] Morris SD, et al. **Heart** 1996 Aug;76(2):97–8

Brief heat shock treatment induces a long-lasting alteration in the glycolipid receptor binding specificity and growth rate of Haemophilus influenzae. Hartmann E, et al. **Infect Immun** 1997 May;65(5):1729–33

A 77-kilodalton protein of Cryptococcus neoformans, a member of the heat shock protein 70 family, is a major antigen detected in the sera of mice with pulmonary cryptococcosis. Kakeya H, et al. **Infect Immun** 1997 May; 65(5):1653–8

The potential role of HSP70 as an indicator of response to radiation and hyperthermia treatments for recurrent breast cancer [see comments] Liu FF, et al. **Int J Hyperthermia** 1996 Mar-Apr;12(2):197–208; discussion 209–10. Comment in: Int J Hyperthermia 1996 Mar-Apr;12(2):301–2.

Differential effects of exercise and heat stress on liver HSP70 accumulation with aging. Kregel KC, et al. **J Appl Physiol** 1996 Feb;80(2):547–51

Structure-function analyses of the Ssc1p, Mdj1p, and Mge1p Saccharomyces cerevisiae mitochondrial proteins in Escherichia coli. Deloche O, et al. **J Bacteriol** 1997 Oct; 179(19):6066–75

Heat shock regulation of sigmaS turnover: a role for DnaK and relationship between stress responses mediated by sigmaS and sigma32 in Escherichia coli. Muffler A, et al. **J Bacteriol** 1997 Jan;179(2):445–52

Coupling chemical energy by the hsp70/tim44 complex to drive protein translocation into mitochondria. Cyr DM. **J Bioenerg Biomembr** 1997 Feb;29(1):29–34 (32 ref.)

Molecular chaperones and mitochondrial protein folding. Martin J. **J Bioenerg Biomembr** 1997 Feb;29(1):35–43

Refolding intermediates of acid-unfolded mitochondrial aspartate aminotransferase bind to hsp70. Artigues A, et al. **J Biol Chem** 1997 Jul 4;272(27):16852–61

Ubiquitin-dependent degradation of certain protein substrates in vitro requires the molecular chaperone Hsc70. Bercovich B, et al. **J Biol Chem** 1997 Apr 4;272(14):9002–10

HSP70 binding sites in the tumor suppressor protein p53. Fourie AM, et al. **J Biol Chem** 1997 Aug 1;272(31):19471–9

Hsp70 prevents activation of stress kinases. A novel pathway of cellular thermotolerance. Gabai VL, et al. **J Biol Chem** 1997 Jul 18;272(29):18033–7

N-terminal hydrophobic sorting signals of preproteins confer mitochondrial hsp70 independence for import into mitochondria. Gruhler A, et al. **J Biol Chem** 1997 Jul 11; 272(28):17410–5

p75, a member of the heat shock protein family, undergoes tyrosine phosphorylation in response to oxidative stress. Hadari YR, et al. **J Biol Chem** 1997 Jan 3;272(1):657–62

Modification of two distinct COOH-terminal domains is required for murine p53 activation by bacterial Hsp70. Hansen S, et al. **J Biol Chem** 1996 Nov 29;271(48):30922–8

Nitric oxide protects cultured rat hepatocytes from tumor necrosis factor-alpha-induced apoptosis by inducing heat shock protein 70 expression. Kim YM, et al. **J Biol Chem** 1997 Jan 10;272(2):1402–11

The early stage of chloroplast protein import involves Com70. Kourtz L, et al. **J Biol Chem** 1997 Jan 31; 272(5):2808–13

Mouse lymphoma cells destined to undergo apoptosis in response to thapsigargin treatment fail to generate a calcium-mediated grp78/grp94 stress response. McCormick TS, et al. **J Biol Chem** 1997 Feb 28; 272(9):6087–92

DnaK heat shock protein of Escherichia coli maintains the negative supercoiling of DNA against thermal stress. Ogata Y, et al. **J Biol Chem** 1996 Nov 15;271(46):29407–14

2-Cyclopenten-1-one, a new inducer of heat shock protein 70 with antiviral activity. Rossi A, et al. **J Biol Chem** 1996 Dec 13;271(50):32192–6

Functional interaction of the auxilin J domain with the nucleotide- and substrate-binding modules of Hsc70. Ungewickell E, et al. **J Biol Chem** 1997 Aug 1; 272(31):19594–600

Interaction of endoplasmic reticulum chaperone GRP94 with peptide substrates is adenine nucleotide-independent. Wearsch PA, et al. **J Biol Chem** 1997 Feb 21;272(8):5152–6

An intralysosomal hsp70 is required for a selective pathway of lysosomal protein degradation. Agarraberes FA, et al. **J Cell Biol** 1997 May 19;137(4):825–34

The Hsp70 homologue Lhs1p is involved in a novel function of the yeast endoplasmic reticulum, refolding and stabilization of heat-denatured protein aggregates. Saris N, et al. **J Cell Biol** 1997 May 19;137(4):813–24

In vivo nuclear transport kinetics in Saccharomyces cerevisiae: a role for heat shock protein 70 during targeting and translocation. Shulga N, et al. **J Cell Biol** 1996 Oct; 135(2):329–39

Distribution of HSP70, protein kinase C, and spectrin is altered in lymphocytes during a fever-like hyperthermia exposure. Di YP, et al. **J Cell Physiol** 1997 Jul;172(1):44–54

Proteins containing non-native disulfide bonds generated by oxidative stress can act as signals for the induction of the heat shock response. McDuffee AT, et al. **J Cell Physiol** 1997 May;171(2):143–51

Endoplasmic reticulum stress-inducible protein GRP94 is associated with an Mg2+-dependent serine kinase activity modulated by Ca2+ and GRP78/BiP. Ramakrishnan M, et al. **J Cell Physiol** 1997 Feb;170(2):115–29

Stress proteins and tolerance to focal cerebral ischemia. Chen J, et al. **J Cereb Blood Flow Metab** 1996 Jul;16(4):566–77

A function for the QKRAA amino acid motif: mediating binding of DnaJ to DnaK. Implications for the association of rheumatoid arthritis with HLA-DR4. Auger I, et al. **J Clin Invest** 1997 Apr 15;99(8):1818–22

The beet yellows closterovirus p65 homologue of HSP70 chaperones has ATPase activity associated with its conserved N-terminal domain but does not interact with unfolded protein chains. Agranovsky AA, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):535–42

Role of mitochondrial GrpE and phosphate in the ATPase cycle of matrix Hsp70. Dekker PJ, et al. **J Mol Biol** 1997 Jul 18;270(3):321–7

Mge1 functions as a nucleotide release factor for Ssc1, a mitochondrial Hsp70 of Saccharomyces cerevisiae. Miao B, et al. **J Mol Biol** 1997 Feb 7;265(5):541–52

The power stroke of the DnaK/DnaJ/GrpE molecular chaperone system. Pierpaoli EV, et al. **J Mol Biol** 1997 Jun 27;269(5):757–68

The second step of ATP binding to DnaK induces peptide release. Theyssen H, et al. **J Mol Biol** 1996 Nov 15; 263(5):657–70

Differential protection of primary rat cardiocytes by transfection of specific heat stress proteins. Cumming DV, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2343–9

Heat shock-induced manganese superoxide dismutase enhances the tolerance of cardiac myocytes to hypoxia-reoxygenation injury. Yamashita N, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1805–13

Time course of tolerance to ischemia-reperfusion injury and induction of heat shock protein 72 by heat stress in the rat heart. Yamashita N, et al. **J Mol Cell Cardiol** 1997 Jul; 29(7):1815–21

In vivo activation of neural heat shock transcription factor HSF1 by a physiologically relevant increase in body temperature. Brown IR, et al. **J Neurosci Res** 1996 Apr 1;44(1):52–7

Focal hyperexpression of hemeoxygenase-1 protein and messenger RNA in rat brain caused by cellular stress following subarachnoid injections of lysed blood. Matz PG, et al. **J Neurosurg** 1996 Nov;85(5):892–900

Ability of various members of the hsp70 family of chaperones to promote assembly of the glucocorticoid receptor into a functional heterocomplex with hsp90. Hutchison KA, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):251–8

Heat shock protein 70 expression in native and heterotopically transplanted rat hearts. Mehta NK, et al. **J Surg Res** 1997 Jul 1;70(2):151–5

Selective motor neuron death and heat shock protein induction after spinal cord ischemia in rabbits. Sakurai M, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):159–64

Inhibition of nucleolar function and morphological change by adriamycin associated with heat shock protein 70 accumulation. Abe T, et al. **Jpn J Cancer Res** 1996 Sep; 87(9):945–51

Effect of water diuresis and water restriction on expression of HSPs-27, -60 and -70 in rat kidney. Medina R, et al. **Kidney Int** 1996 Oct;50(4):1191–4

Interaction of erythropoietin RNA binding protein with erythropoietin RNA requires an association with heat shock protein 70. Scandurro AB, et al. **Kidney Int** 1997 Feb;51(2):579–84

Response of the neonatal rat cardiomyocyte in culture to energy depletion: effects of cytokines, nitric oxide, and heat shock proteins. Wang D, et al. **Lab Invest** 1996 Dec; 75(6):809–18

Induction of heat shock protein 70 (HSP70) by zinc bis (DL-hydrogen aspartate) reduces ischemic small-bowel tissue damage in rats. Tönns C, et al. **Langenbecks Arch Chir** 1997;382(1):43–8

Complexes between nascent polypeptides and their molecular chaperones in the cytosol of mammalian cells. Eggers DK, et al. **Mol Biol Cell** 1997 Aug;8(8):1559–73

Role of the human heat shock protein hsp70 in protection against stress-induced apoptosis. Mosser DD, et al. **Mol Cell Biol** 1997 Sep;17(9):5317–27

Mutational analysis of the hsp70-interacting protein Hip. Prapapanich V, et al. **Mol Cell Biol** 1996 Nov;16(11):6200–7

The requirement of heat shock cognate 70 protein for mitochondrial import varies among precursor proteins and depends on precursor length. Terada K, et al. **Mol Cell Biol** 1996 Nov;16(11):6103–9

Interactions of p60, a mediator of progesterone receptor assembly, with heat shock proteins hsp90 and hsp70. Chen S, et al. **Mol Endocrinol** 1996 Jun;10(6):682–93

Effect of heat stress on development in vitro and in vivo and on synthesis of heat shock proteins in porcine embryos. Kojima T, et al. **Mol Reprod Dev** 1996 Apr;43(4):452–7

Mutant analysis links the translocon and BiP to retrograde protein transport for ER degradation. Plemper RK, et al. **Nature** 1997 Aug 28;388(6645):891–5

Heat shock protein 72/73 in normal and diseased kidneys. Venkataseshan VS, et al. **Nephron** 1996;73(3):442–9

Dissociation of HSP72 and HSC73 heat shock mRNA inductions after spinal cord ischemia in rabbit. Sakurai M, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):113–6

Differential cellular distribution and dynamics of HSP70, cyclooxygenase-2, and c-Fos in the rat brain after transient focal ischemia or kainic acid. Sanz O, et al. **Neuroscience** 1997 Sep;80(1):221–32

Heme oxygenase-1 and heat shock protein 70 induction in glia and neurons throughout rat brain after experimental intracerebral hemorrhage. Matz PG, et al. **Neurosurgery** 1997 Jan;40(1):152–60; discussion 160–2

Synthetic leaders with potential BiP binding mediate high-yield secretion of correctly folded insulin precursors from Saccharomyces cerevisiae. Kjeldsen T, et al. **Protein Expr Purif** 1997 Apr;9(3):331–6

Apoptosis in heat-induced cell killing: the protective role of hsp-70 and the sensitization effect of the c-myc gene. Li WX, et al. **Radiat Res** 1996 Mar;145(3):324–30

Effect of glycine on cisplatin nephrotoxicity and heat-shock protein 70 expression in the rat kidney. Musio F, et al. **Ren Fail** 1997 Jan;19(1):33–46

HLA-DR4, 70 kD heat shock proteins, and rheumatoid arthritis [editorial] Auger I, et al. **Rev Rhum Engl Ed** 1997 Mar;64(3):141–4

Functional specificity among Hsp70 molecular chaperones. James P, et al. **Science** 1997 Jan 17;275(5298):387–9

Protein transport by purified yeast Sec complex and Kar2p without membranes. Matlack KE, et al. **Science** 1997 Aug 15;277(5328):938–41

Induction of heat shock protein 70 by zinc-bis-(DL-hydrogenaspartate) reduces cytokine liberation, apoptosis, and mortality rate in a rat model of LD100 endotoxemia. Klosterhalfen B, et al. **Shock** 1997 Apr;7(4):254–62

Human Hsp70 molecular chaperone binds two calcium ions within the ATPase domain. Sriram M, et al. **Structure** 1997 Mar 15;5(3):403–14

Selective proteolysis: 70-kDa heat-shock protein and ubiquitin-dependent mechanisms? Mayer RJ, et al. **Subcell Biochem** 1996;27:137–58 (77 ref.)

Induction of hsp 70 in HepG2 cells in response to hepatotoxicants. Salminen WF Jr, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):117–23

Yarrowia lipolytica SRP54 homolog and translocation of Kar2p. Lee IH, et al. **Yeast** 1997 May;13(6):499–513

[Increased intestinal ischemia tolerance by stress protein induction (HSP70 and metallothionein) in a zinc stimulation model] Tönns C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:613–8 (Eng. Abstr.) **(Ger)**

[Thermotolerance and heat shock protein (HSP 70) in vascular endothelial cells] Itoh YH, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1994 Oct 25; 54(12):1187–9 (Eng. Abstr.) **(Jpn)**

[Expression of the heat shock protein 70 in inflammatory myopathies] Ibi T, et al. **Rinsho Shinkeigaku** 1995 Oct; 35(10):1163–6 (Eng. Abstr.) **(Jpn)**

[Participation of DnaK chaperone and ATP in in vivo folding of firefly luciferase, synthesized by E. coli cells] Leont'eva OV, et al. **Biokhimiia** 1996 Apr;61(4):721–6 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Trigeminal ganglion neurons are protected by the heat shock proteins hsp70 and hsp90 from thermal stress but not from programmed cell death following nerve growth factor withdrawal. Wyatt S, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):52–6

Exogenous heat shock cognate protein Hsc 70 prevents axotomy-induced death of spinal sensory neurons. Houenou LJ, et al. **Cell Stress Chaperones** 1996 Sep; 1(3):161–6

HEAT-SHOCK PROTEINS 70

PHYSIOLOGY

Escherichia coli defects caused by null mutations in dnaK and dnaJ genes. Paciorek J, et al. **Acta Microbiol Pol** 1997; 46(1):7–17

Delayed preconditioning of cultured adult rat cardiac myocytes: role of 70- and 90-kDa heat stress proteins. Nayeem MA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H861–8

Glutamine protects intestinal epithelial cells: role of inducible HSP70. Wischmeyer PE, et al. **Am J Physiol** 1997 Apr; 272(4 Pt 1):G879–84

Windows for HSP 70. Snoeckx LH, et al.
Ann N Y Acad Sci 1996 Sep 30;793:167–76 (44 ref.)

HSP70 is essential to the neuroprotective effect of heat-shock. Sato K, et al. **Brain Res** 1996 Nov 18; 740(1–2):117–23

Evidence for a role of Hsp70 in the regulation of the heat shock response in mammalian cells. Baler R, et al.
Cell Stress Chaperones 1996 Apr;1(1):33–9

Quantitative evidence that both Hsc70 and Hsp70 contribute to thermal adaptation in hybrids of the livebearing fishes Poeciliopsis [published erratum appears in Cell Stress Chaperones 1996 Sep;1(3):207] diIorio PJ, et al.
Cell Stress Chaperones 1996 Jun;1(2):139–47

Hsp70 expression and function during gametogenesis. Dix DJ. **Cell Stress Chaperones** 1997 Jun;2(2):73–7 (52 ref.)

Thermal activation of the bovine Hsc70 molecular chaperone at physiological temperatures: physical evidence of a molecular thermometer. Leung SM, et al.
Cell Stress Chaperones 1996 Apr;1(1):78–89

Heat shock–induced myocardial protection against ischemic injury: a role for Hsp70? Plumier JC, et al.
Cell Stress Chaperones 1996 Apr;1(1):13–7 (51 ref.)

Modulation of intracellular protein degradation by SSB1–SIS1 chaperon system in yeast S. cerevisiae. Ohba M. **FEBS Lett** 1997 Jun 9;409(2):307–11

Brief heat shock treatment induces a long-lasting alteration in the glycolipid receptor binding specificity and growth rate of Haemophilus influenzae. Hartmann E, et al.
Infect Immun 1997 May;65(5):1729–33

Alterations in levels of DnaK and GroEL result in diminished survival and adherence of stressed Haemophilus ducreyi. Parsons LM, et al. **Infect Immun** 1997 Jun;65(6):2413–9

The degradation of apolipoprotein B100 is mediated by the ubiquitin–proteasome pathway and involves heat shock protein 70. Fisher EA, et al. **J Biol Chem** 1997 Aug 15; 272(33):20427–34

The refolding activity of the yeast heat shock proteins Ssa1 and Ssa2 defines their role in protein translocation. Bush GL, et al. **J Cell Biol** 1996 Dec;135(5):1229–37

In vivo gene transfection with heat shock protein 70 enhances myocardial tolerance to ischemia–reperfusion injury in rat. Suzuki K, et al. **J Clin Invest** 1997 Apr 1;99(7):1645–50

Overexpression of the heat shock protein 70 enhances the TCR/CD3- and Fas/Apo-1/CD95-mediated apoptotic cell death in Jurkat T cells. Liossis SN, et al.
J Immunol 1997 Jun 15;158(12):5668–75

The role of hsp70 and IP3–DAG mechanism in the adaptive stabilization of structures and heart protection. Meerson FZ, et al. **J Mol Cell Cardiol** 1996 May;28(5):835–43

Dietary energy tissue–specifically regulates endoplasmic reticulum chaperone gene expression in the liver of mice. Dhahbi JM, et al. **J Nutr** 1997 Sep;127(9):1758–64

Expression and roles of heat shock proteins in human breast cancer. Yano M, et al. **Jpn J Cancer Res** 1996 Sep; 87(9):908–15

Participation of the molecular chaperone DnaK in intracellular growth of Brucella suis within U937-derived phagocytes. Köhler S, et al. **Mol Microbiol** 1996 May; 20(4):701–12

HSP70 protects murine astrocytes from glucose deprivation injury. Xu L, et al. **Neurosci Lett** 1997 Mar 7;224(1):9–12

B-Myb and cyclin D1 mediate heat shock element dependent activation of the human HSP70 promoter. Kamano H, et al. **Oncogene** 1997 Mar 13;14(10):1223–9

Is HSP70 involved in nitric oxide–induced protection of the heart? Malyshev IYu, et al. **Physiol Res** 1996;45(4):267–72

The heat-shock protein 70 family reduces ischemia/reperfusion injury in small intestine. Tsuruma T, et al. **Transplant Proc** 1996 Oct;28(5):2629–30

[Participation of inducible stress-proteins in realizing the cardioprotective effect of Rhodiolae rosea] Afanas'ev SA, et al. **Biokhimiia** 1996 Oct;61(10):1779–84 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

Helium–neon laser irradiation is not a stressful treatment: a study on heat-shock protein (HSP70) level. Hashieh IA, et al. **Lasers Surg Med** 1997;20(4):451–60

HEAT-SHOCK PROTEINS 90

[Functions of Hsp90, a major stress protein, as a molecular chaperone] Kimura Y, et al.
Tanpakushitsu Kakusan Koso 1996 Jun;41(7):883–7 (31 ref.) **(Jpn)**

ANALYSIS

Immunofluorescence localization of the 90-kDa heat-shock protein to cytoskeleton. Czar MJ, et al. **Eur J Cell Biol** 1996 Aug;70(4):322–30

Localization of heat shock proteins in mouse male germ cells: an immunoelectron microscopical study. Biggiogera M, et al. **Exp Cell Res** 1996 Nov 25;229(1):77–85

HSP70 and HSP90 homologs are associated with tubulin in hetero–oligomeric complexes, cilia and the cortex of Tetrahymena. Williams NE, et al. **J Cell Sci** 1997 Jul;110 (Pt 14):1665–72

Analysis of the native forms of the 90 kDa heat shock protein (hsp90) in plant cytosolic extracts. Krishna P, et al.
Plant Mol Biol 1997 Feb;33(3):457–66

BIOSYNTHESIS

A novel 90-kDa stress protein induced in fish cells by fish rhabdovirus infection. Cho WJ, et al.
Biochem Biophys Res Commun 1997 Apr 17;233(2):316–9

Constitutive expression of heat shock proteins 70 and 90 in rat cerebellum. Stacchiotti A, et al. **Eur J Histochem** 1997; 41(2):127–32

Over–expression of Saccharomyces cerevisiae hsp90 enhances the virulence of this yeast in mice. Hodgetts S, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3–4):229–34

CHEMISTRY

Identification and structural characterization of the ATP/ADP-binding site in the Hsp90 molecular chaperone. Prodromou C, et al. **Cell** 1997 Jul 11;90(1):65–75

Crystal structure of an Hsp90–geldanamycin complex: targeting of a protein chaperone by an antitumor agent. Stebbins CE, et al. **Cell** 1997 Apr 18;89(2):239–50

Protein phosphatase 5 is a major component of glucocorticoid receptor.hsp90 complexes with properties of an FK506-binding immunophilin. Silverstein AM, et al.
J Biol Chem 1997 Jun 27;272(26):16224–30

Analysis of mammalian Cdc37, a protein kinase targeting subunit of heat shock protein 90. Stepanova L, et al.
Methods Enzymol 1997;283:220–9

A molecular clamp in the crystal structure of the N-terminal domain of the yeast Hsp90 chaperone [see comments] Prodromou C, et al. **Nat Struct Biol** 1997 Jun;4(6):477–82 . Comment in: Nat Struct Biol 1997 Jun;4(6):430–4.

A predicted consensus structure for the N-terminal fragment of the heat shock protein HSP90 family. Gerloff DL, et al. **Proteins** 1997 Mar;27(3):450–8

GENETICS

Interleukin 6 activates heat-shock protein 90 beta gene expression. Stephanou A, et al. **Biochem J** 1997 Jan 1;321 (Pt 1):103–6

Evaluation of stress–inducible hsp90 gene expression as a potential molecular biomarker in Xenopus laevis. Ali A, et al. **Cell Stress Chaperones** 1996 Apr;1(1):62–9

Murine 86-kDa heat shock protein gene and promoter. Dale EC, et al. **Cell Stress Chaperones** 1997 Jun;2(2):87–93

Changes in heat shock protein–90 and –70 messenger ribonucleic acid in uterine tissues of the ewe in relation to parturition and regulation by estradiol and progesterone. Wu WX, et al. **Endocrinology** 1996 Dec;137(12):5685–93

HSP90alpha gene expression may be a conserved feature of vertebrate somitogenesis. Sass JB, et al. **Exp Cell Res** 1997 Jun 15;233(2):391–4

Cloning and characterization of the Actinobacillus actinomycetemcomitans gene encoding a heat-shock protein 90 homologue. Winston JL, et al. **Gene** 1996 Nov 14;179(2):199–204

The htpG gene of Bacillus subtilis belongs to class III heat shock genes and is under negative control. Schulz A, et al. **J Bacteriol** 1997 May;179(10):3103–9

The phorbol ester 12–O–tetradecanoylphorbol 13–acetate enhances the heat-induced stress response. Holmberg CI, et al. **J Biol Chem** 1997 Mar 7;272(10):6792–8

Mutational analysis of Hsp90 alpha dimerization and subcellular localization: dimer disruption does not impede "in vivo' interaction with estrogen receptor. Meng X, et al. **J Cell Sci** 1996 Jul;109 (Pt 7):1677–87

Messenger ribonucleic acid expression of heat shock proteins HSP70 and HSP90 in human endometrium and myometrium during the menstrual cycle. Komatsu T, et al. **J Clin Endocrinol Metab** 1997 May;82(5):1385–9

Developmental expression of heat shock protein 90 in Eimeria bovis. Clark TG, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):259–63

In vivo analysis of the Hsp90 cochaperone Sti1 (p60). Chang HC, et al. **Mol Cell Biol** 1997 Jan;17(1):318–25

IMMUNOLOGY

Antibodies against Candida: potential therapeutics? Matthews R, et al. **Trends Microbiol** 1996 Sep;4(9):354–8 (41 ref.)

ISOLATION & PURIFICATION

One–step HPLC purification procedure for porcine brain 90-kDa heat shock protein. Chu LF, et al.
Protein Expr Purif 1997 Jul;10(2):180–4

METABOLISM

Functional importance of heat shock protein 90 associated with insulin receptor on insulin–stimulated mitogenesis. Takata Y, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):345–7

Mapping the 90 kDa heat shock protein binding region of the Ah receptor. Perdew GH, et al.
Biochem Mol Biol Int 1996 Jun;39(3):589–93

Characterization of human proximal tubular cells after hypoxic preconditioning: constitutive and hypoxia–induced expression of heat shock proteins HSP70 (A, B, and C), HSC70, and HSP90. Turman MA, et al.
Biochem Mol Med 1997 Feb;60(1):49–58

Geldanamycin, a heat shock protein 90–binding benzoquinone ansamycin, inhibits steroid–dependent translocation of the glucocorticoid receptor from the cytoplasm to the nucleus. Czar MJ, et al. **Biochemistry** 1997 Jun 24;36(25):7776–85

Hsp90–mediated folding of the lymphoid cell kinase p56lck. Hartson SD, et al. **Biochemistry** 1996 Oct 15;35(41):13451–9

Binding of immunophilins to the 90 kDa heat shock protein (hsp90) via a tetratricopeptide repeat domain is a conserved protein interaction in plants. Owens–Grillo JK, et al.
Biochemistry 1996 Dec 3;35(48):15249–55

Cooperative action of Hsp70, Hsp90, and DnaJ proteins in protein renaturation. Schumacher RJ, et al.
Biochemistry 1996 Nov 26;35(47):14889–98

Characterization of cyclophilin 40: highly conserved protein that directly associates with Hsp90. Yokoi H, et al.
Biol Pharm Bull 1996 Apr;19(4):506–11

Identification and structural characterization of the ATP/ADP-binding site in the Hsp90 molecular chaperone. Prodromou C, et al. **Cell** 1997 Jul 11;90(1):65–75

A pathway of multi–chaperone interactions common to diverse regulatory proteins: estrogen receptor, Fes tyrosine kinase, heat shock transcription factor Hsf1, and the aryl hydrocarbon receptor. Nair SC, et al.
Cell Stress Chaperones 1996 Dec;1(4):237–50

Tumor suppressor p53 gene forms multiple isoforms: evidence for single locus origin and cytoplasmic complex formation with heat shock proteins. Selkirk JK, et al.
Electrophoresis 1996 Nov;17(11):1764–71

The heat shock protein 83 (Hsp83) is required for Raf–mediated signalling in Drosophila. van der Straten A, et al. **EMBO J** 1997 Apr 15;16(8):1961–9

The role of the 90–kDa heat–shock protein and its associated cohorts in stabilizing the heme–regulated eIF–2alpha kinase in reticulocyte lysates during heat stress. Xu Z, et al.
Eur J Biochem 1997 Jun 1;246(2):461–70

Selective interaction of hsp90 with an estrogen receptor ligand–binding domain containing a point mutation. Aumais JP, et al. **J Biol Chem** 1997 May 2;272(18):12229–35

Hsp90 regulates androgen receptor hormone binding affinity in vivo. Fang Y, et al. **J Biol Chem** 1996 Nov 8; 271(45):28697–702

The amino–terminal domain of heat shock protein 90 (hsp90) that binds geldanamycin is an ATP/ADP switch domain that regulates hsp90 conformation. Grenert JP, et al.
J Biol Chem 1997 Sep 19;272(38):23843–50

Hormone–dependent transactivation by estrogen receptor chimeras that do not interact with hsp90. Evidence for transcriptional repressors. Lee HS, et al. **J Biol Chem** 1996 Oct 18;271(42):25727–30

ATP–binding properties of human Hsp90. Scheibel T, et al.
J Biol Chem 1997 Jul 25;272(30):18608–13

The function of steroid hormone receptors is inhibited by the hsp90–specific compound geldanamycin. Segnitz B, et al. **J Biol Chem** 1997 Jul 25;272(30):18694–701

The hsp90–binding antibiotic geldanamycin decreases Raf levels and epidermal growth factor signaling without disrupting formation of signaling complexes or reducing the specific enzymatic activity of Raf kinase. Stancato LF, et al. **J Biol Chem** 1997 Feb 14;272(7):4013–20

Nucleotides and two functional states of hsp90. Sullivan W, et al. **J Biol Chem** 1997 Mar 21;272(12):8007–12

Hsp90 is obligatory for the heme–regulated eIF–2alpha kinase to acquire and maintain an activable conformation. Uma S, et al. **J Biol Chem** 1997 Apr 25;272(17):11648–56

Differential protection of primary rat cardiocytes by transfection of specific heat stress proteins. Cumming DV, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2343–9

Ability of various members of the hsp70 family of chaperones to promote assembly of the glucocorticoid receptor into a functional heterocomplex with hsp90. Hutchison KA, et al. **J Steroid Biochem Mol Biol** 1996 Jun;58(3):251–8

Optimal ligand binding by the recombinant human glucocorticoid receptor and assembly of the receptor complex with heat shock protein 90 correlate with high intracellular ATP levels in Spodoptera frugiperda cells. Srinivasan G, et al. **J Steroid Biochem Mol Biol** 1997 Jan; 60(1–2):1–9

Binding affinity of proteins to hsp90 correlates with both hydrophobicity and positive charges. A surface plasmon resonance study. Csermely P, et al. **Life Sci** 1997; 61(4):411–8

Analysis of mammalian Cdc37, a protein kinase targeting subunit of heat shock protein 90. Stepanova L, et al.
Methods Enzymol 1997;283:220–9

Proteasome inactivation upon aging and on oxidation–effect of HSP 90. Conconi M, et al. **Mol Biol Rep** 1997 Mar; 24(1–2):45–50

In vivo analysis of the Hsp90 cochaperone Sti1 (p60). Chang HC, et al. **Mol Cell Biol** 1997 Jan;17(1):318–25

Molecular cloning of human FKBP51 and comparisons of immunophilin interactions with Hsp90 and progesterone receptor. Nair SC, et al. **Mol Cell Biol** 1997 Feb; 17(2):594–603

Inhibition of mineralocorticoid and glucocorticoid receptor function by the heat shock protein 90-binding agent geldanamycin. Bamberger CM, et al. **Mol Cell Endocrinol** 1997 Aug 8;131(2):233–40

Interactions of p60, a mediator of progesterone receptor assembly, with heat shock proteins hsp90 and hsp70. Chen S, et al. **Mol Endocrinol** 1996 Jun;10(6):682–93

Disruption of the glucocorticoid receptor assembly with heat shock protein 90 by a peptidic antiglucocorticoid. Dao-Phan HP, et al. **Mol Endocrinol** 1997 Jun;11(7):962–72

In vivo evidence for the generation of a glucocorticoid receptor–heat shock protein–90 complex incapable of binding hormone by the calmodulin antagonist phenoxybenzamine. Ning YM, et al. **Mol Endocrinol** 1996 Jan;10(1):14–23

Stable and specific binding of heat shock protein 90 by geldanamycin disrupts glucocorticoid receptor function in intact cells. Whitesell L, et al. **Mol Endocrinol** 1996 Jun; 10(6):705–12

Assessment of glucocorticoid receptor–heat shock protein 90 interactions in vivo during nucleocytoplasmic trafficking. Yang J, et al. **Mol Endocrinol** 1996 Jan; 10(1):3–13

Effect of heat stress on development in vitro and in vivo and on synthesis of heat shock proteins in porcine embryos. Kojima T, et al. **Mol Reprod Dev** 1996 Apr;43(4):452–7

A molecular clamp in the crystal structure of the N-terminal domain of the yeast Hsp90 chaperone [see comments] Prodromou C, et al. **Nat Struct Biol** 1997 Jun;4(6):477–82 . Comment in: Nat Struct Biol 1997 Jun;4(6):430–4.

PHARMACOLOGY

Trigeminal ganglion neurons are protected by the heat shock proteins hsp70 and hsp90 from thermal stress but not from programmed cell death following nerve growth factor withdrawal. Wyatt S, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):52–6

Pharmacologic shifting of a balance between protein refolding and degradation mediated by Hsp90. Schneider C, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14536–41

PHYSIOLOGY

Delayed preconditioning of cultured adult rat cardiac myocytes: role of 70- and 90-kDa heat stress proteins. Nayeem MA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H861–8

The role of the hsp90-based chaperone system in signal transduction by nuclear receptors and receptors signaling via MAP kinase. Pratt WB. **Annu Rev Pharmacol Toxicol** 1997;37:297–326 (183 ref.)

Increase of P-glycoprotein-mediated drug resistance by hsp 90 beta. Bertram J, et al. **Anticancer Drugs** 1996 Nov; 7(8):838–45

Folding of the glucocorticoid receptor by the heat shock protein (hsp) 90–based chaperone machinery. The role of p23 is to stabilize receptor.hsp90 heterocomplexes formed by hsp90.p60.hsp70. Dittmar KD, et al. **J Biol Chem** 1997 Aug 22;272(34):21213–20

Nerve growth factor–mediated activation of the mitogen–activated protein (MAP) kinase cascade involves a signaling complex containing B-Raf and HSP90. Jaiswal RK, et al. **J Biol Chem** 1996 Sep 27;271(39):23626–9

Increased heat shock protein 90 (hsp90) expression leads to increased apoptosis in the monoblastoid cell line U937 following induction with TNF-alpha and cycloheximide: a possible role in immunopathology. Galea-Lauri J, et al. **J Immunol** 1996 Nov 1;157(9):4109–18

Expression and roles of heat shock proteins in human breast cancer. Yano M, et al. **Jpn J Cancer Res** 1996 Sep; 87(9):908–15

Chaperone function of Hsp90-associated proteins [see comments] Bose S, et al. **Science** 1996 Dec 6; 274(5293):1715–7. Comment in: Science 1996 Dec 6;274(5293):1613–4.

A cyclophilin function in Hsp90–dependent signal transduction [see comments] Duina AA, et al. **Science** 1996 Dec 6;274(5293):1713–5. Comment in: Science 1996 Dec 6;274(5293):1613–4.

HEAT-SHOCK REACTION see **HEAT-SHOCK RESPONSE**

HEAT-SHOCK RESPONSE

see related

HEAT-SHOCK PROTEINS

Plasticity and stressor specificity of osmotic and heat shock responses of Gillichthys mirabilis gill cells. Kültz D. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1181–93

Induction of human endothelial cell apoptosis requires both heat shock and oxidative stress responses. Wang JH, et al. **Am J Physiol** 1997 May;272(5 Pt 1):C1543–51

Effect of heat shock and endotoxin stress on enterocyte viability apoptosis and function varies based on whether the cells are exposed to heat shock or endotoxin first. Xu DZ, et al. **Arch Surg** 1996 Nov;131(11):1222–8

Inhibition by polyols of the heat-shock-induced activation of trehalase in the yeast Zygosaccharomyces rouxii. Fernandez J, et al. **Biochem Mol Biol Int** 1996 Feb; 38(1):43–50

Expression of different forms of the heat-shock factor during the life cycle of the parasitic helminth Schistosoma mansoni. Levy-Holtzman R, et al. **Biochim Biophys Acta** 1996 Oct 7;1317(1):1–4

In vivo evidence for B1-receptor synthesis induction by heat stress in the rat. Lagneux C, et al. **Br J Pharmacol** 1997 Jul;121(6):1045–6

Regulation of heat shock gene induction and expression during Drosophila development. Michaud S, et al. **Cell Mol Life Sci** 1997 Jan;53(1):104–13 (112 ref.)

Heat shock and the role of the HSPs during neural plate induction in early mammalian CNS and brain development. Walsh D, et al. **Cell Mol Life Sci** 1997 Feb;53(2):198–211 (93 ref.)

Recent literature on cell stress & chaperones. **Cell Stress Chaperones** 1996 Apr;1(1):91–5

Diminished heat shock response in the aged myocardium. Locke M, et al. **Cell Stress Chaperones** 1996 Dec; 1(4):251–60

Discovery of the heat shock response. Ritossa F. **Cell Stress Chaperones** 1996 Jun;1(2):97–8

Heat shock in vertebrate cells. Schlesinger MJ. **Cell Stress Chaperones** 1996 Dec;1(4):213–4 (7 ref.)

Low stress response enhances vulnerability of islet cells in diabetes-prone BB rats. Bellmann K, et al. **Diabetes** 1997 Feb;46(2):232–6

Differential effects of heat shock on translation of normal mRNAs in primary spermatocytes, elongated spermatids, and Sertoli cells in seminiferous tubule culture. Cataldo L, et al. **Exp Cell Res** 1997 Feb 25;231(1):206–13

Partial homology of stress glycoprotein GP62 with HSP70. Jethmalani SM, et al. **Exp Cell Res** 1997 Apr 10;232(1):8–16

Variations in the heat-induced protein pattern of several Drosophila montium subgroup species (Diptera:Drosophilidae). Konstantopoulou I, et al. **Genome** 1997 Feb;40(1):132–7

Hyperthermia, teratogenesis and the heat shock response in mammalian embryos in culture. Edwards MJ, et al. **Int J Dev Biol** 1997 Apr;41(2):345–58 (93 ref.)

Heat shock regulation of sigmaS turnover: a role for DnaK and relationship between stress responses mediated by sigmaS and sigma32 in Escherichia coli. Muffler A, et al. **J Bacteriol** 1997 Jan;179(2):445–52

The association of the stress response and Toxoplasma gondii bradyzoite development. Weiss LM, et al. **J Eukaryot Microbiol** 1996 Sep-Oct;43(5):120S

Heat shock response and groEL sequence of Bartonella henselae and Bartonella quintana. Haake DA, et al. **Microbiology** 1997 Aug;143 (Pt 8):2807–15

Cell cycle, DNA damage and heat shock regulate suc22+ expression in fission yeast. Harris P, et al. **Mol Gen Genet** 1996 Sep 13;252(3):284–91

Differential responses of bovine oocytes and preimplantation embryos to heat shock. Edwards JL, et al. **Mol Reprod Dev** 1997 Feb;46(2):138–45

Transcriptional modulation of viral reporter gene constructs following induction of the cellular stress response. Andrews JM, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):1082–4

Parallel human genome analysis: microarray-based expression monitoring of 1000 genes. Schena M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10614–9

DRUG EFFECTS

Endotoxin induces cardiac HSP70 and resistance to endotoxemic myocardial depression in rats. Meng X, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1316–24

The phorbol ester 12-O-tetradecanoylphorbol 13-acetate enhances the heat-induced stress response. Holmberg CI, et al. **J Biol Chem** 1997 Mar 7;272(10):6792–8

Induction of hsp 70 in HepG2 cells in response to hepatotoxicants. Salminen WF Jr, et al. **Toxicol Appl Pharmacol** 1996 Nov;141(1):117–23

[Adaptogen ADAPT modulates synthesis of inducible stress protein HSP 70 and increases organism resistance to heat shock] Prodius PA, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):629–31 **(Rus)**

GENETICS

Heat shock response--pathophysiological implications. Leppä S, et al. **Ann Med** 1997 Feb;29(1):73–8 (50 ref.)

Evaluation of stress-inducible hsp90 gene expression as a potential molecular biomarker in Xenopus laevis. Ali A, et al. **Cell Stress Chaperones** 1996 Apr;1(1):62–9

Heat-shock response in Schizosaccharomyces pombe cells lacking cyclic AMP-dependent phosphorylation. Fernández J, et al. **Curr Genet** 1997 Feb;31(2):112–8

Regulation and conservation of the heat-shock transcription factor sigma32. Yura T. **Genes Cells** 1996 Mar;1(3):277–84 (50 ref.)

The response to extracytoplasmic stress in Escherichia coli is controlled by partially overlapping pathways. Connolly L, et al. **Genes Dev** 1997 Aug 1;11(15):2012–21

The Bradyrhizobium japonicum rpoH1 gene encoding a sigma 32-like protein is part of a unique heat shock gene cluster together with groESL1 and three small heat shock genes. Narberhaus F, et al. **J Bacteriol** 1996 Sep; 178(18):5337–46

Transcription of the mutL repair, miaA tRNA modification, hfq pleiotropic regulator, and hflA region protease genes of Escherichia coli K-12 from clustered Esigma32-specific promoters during heat shock. Tsui HC, et al. **J Bacteriol** 1996 Oct;178(19):5719–31

Ultraviolet light attenuates heat-inducible gene expression. Qiu L, et al. **J Cell Physiol** 1997 Sep;172(3):314–22

Changes in jun N-terminal kinase activation by stress during aging of cultured normal human fibroblasts. Adler V, et al. **Mol Carcinog** 1996 Sep;17(1):8–12

Heat stress transcription factors from tomato can functionally replace HSF1 in the yeast Saccharomyces cerevisiae. Boscheinen O, et al. **Mol Gen Genet** 1997 Jul;255(3):322–31

Two different mechanisms are involved in the heat-shock regulation of chaperonin gene expression in Bradyrhizobium japonicum. Babst M, et al. **Mol Microbiol** 1996 Feb;19(4):827–39

Microbial pathogenesis in cystic fibrosis: co-ordinate regulation of heat-shock response and conversion to mucoidy in Pseudomonas aeruginosa. Schurr MJ, et al. **Mol Microbiol** 1997 Apr;24(2):411–20

Differential regulation of small heat-shock genes in plants: analysis of a water-stress-inducible and developmentally activated sunflower promoter. Coca MA, et al. **Plant Mol Biol** 1996 Jul;31(4):863–76

Distribution of Mayaro virus RNA in polysomes during heat shock. Rosas SL, et al. **Virus Res** 1997 May;48(2):133–41

PHYSIOLOGY

Sublethal heat shock and cyclosporine exposure produce tolerance against subsequent cyclosporine toxicity. Yuan CM, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):F571–8

Heat shock response--pathophysiological implications. Leppä S, et al. **Ann Med** 1997 Feb;29(1):73–8 (50 ref.)

Effects of several factors on the heat-shock-induced thermotolerance of Listeria monocytogenes. Pagán R, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3225–32

Heat shock protects cultured rat astrocytes in a model of reperfusion injury. Takuma K, et al. **Brain Res** 1996 Oct 7;735(2):265–70

Evidence of apoptosis in primary neuronal cultures after heat shock. Vogel P, et al. **Brain Res** 1997 Aug 1; 764(1-2):205–13

Evidence for a role of Hsp70 in the regulation of the heat shock response in mammalian cells. Baler R, et al. **Cell Stress Chaperones** 1996 Apr;1(1):33–9

Translational thermotolerance in Saccharomyces cerevisiae. Hallberg EM, et al. **Cell Stress Chaperones** 1996 Apr; 1(1):70–7

Thermal activation of the bovine Hsc70 molecular chaperone at physiological temperatures: physical evidence of a molecular thermometer. Leung SM, et al. **Cell Stress Chaperones** 1996 Apr;1(1):78–89

Cell-specific heat-shock induction of Hsp23 in the eye of Drosophila melanogaster. Marin R, et al. **Cell Stress Chaperones** 1996 Apr;1(1):40–6

Variation of heat shock protein 70 through the cell cycle in HL-60 cells and its relationship to apoptosis. He L, et al. **Exp Cell Res** 1997 Apr 10;232(1):64–71

Resuscitation of Vibrio cholerae O1 strain TSI-4 from a viable but nonculturable state by heat shock. Wai SN, et al. **FEMS Microbiol Lett** 1996 Feb 15;136(2):187–91

Brief heat shock treatment induces a long-lasting alteration in the glycolipid receptor binding specificity and growth rate of Haemophilus influenzae. Hartmann E, et al. **Infect Immun** 1997 May;65(5):1729–33

Chemicals and heat generate different protein patterns in Acinetobacter calcoaceticus. Benndorf D, et al. **J Basic Microbiol** 1997;37(3):167–74

Protein synthesis in TE 671/RD (human rabdomiosarcoma) cells treated with thapsigargin and hyperthermia: impairment of HSP 70 induction. Delpino A, et al. **J Biol Regul Homeost Agents** 1995 Oct-Dec;9(4):132–8

Modulation of protein phosphorylation and stress protein expression by okadaic acid on heat shock cells. Chen KD, et al. **J Cell Biochem** 1996 May;61(2):255–65

Role of Hsp70 synthesis in the fate of the insulin-receptor complex after heat shock in cultured fetal hepatocytes. Zachayus JL, et al. **J Cell Biochem** 1996 May;61(2):216–29

The dynamic nuclear redistribution of an hnRNP K-homologous protein during Drosophila embryo development and heat shock. Flexibility of transcription sites in vivo. Buchenau P, et al. **J Cell Biol** 1997 Apr 21; 137(2):291–303

Differential protection of primary rat cardiocytes by transfection of specific heat stress proteins. Cumming DV, et al. **J Mol Cell Cardiol** 1996 Dec;28(12):2343–9

Heat stress lipids and schizophrenia. Bates PR, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Aug; 55(1-2):101–7 (66 ref.)

[The influence of hypoxia/reoxygenation on production and release of nitric oxide from cultured newborn rat cardiomyocytes] Wei L, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Sep;76(9):697–9 (Eng. Abstr.) **(Chi)**

["Heat-shock priming" reduces microvascular perfusion failure of critically perfused skin flaps--a possible mechanisms of tissue protection in acute ischemia] Rösken F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:527–30 (Eng. Abstr.) **(Ger)**

[Increased intestinal ischemia tolerance by stress protein induction (HSP70 and metallothionein) in a zinc stimulation model] Töns C, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:613–8 (Eng. Abstr.) **(Ger)**

[A mechanism of mRNA transport in fission yeast: nucleolar

involvement and heat shock inhibition in mRNA transport] Tani T. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1193–200 (23 ref.) **(Jpn)**

[Endothelial hyperactivation in heat shock in rats of different genetic strains] Manukhina EB, et al. **Fiziol Zh Im I M Sechenova** 1996 May–Jun;82(5–6):59–65 (Eng. Abstr.) **(Rus)**

HEAT STRESS DISORDERS

Changes in ATP level and iron-induced ultra-weak photon emission in bull spermatozoa, caused by membrane peroxidation during thermal stress. Gumińska M, et al. **Acta Biochim Pol** 1997;44(1):131–8

Heat stress reduces glutamate toxicity in cultured neurons without hsp70 expression. Snider BJ, et al. **Brain Res** 1996 Aug 12;729(2):273–6

Heat shock inhibits release of the signal recognition particle from the endoplasmic reticulum in barley aleurone layers. Chu B, et al. **J Biol Chem** 1997 Mar 14;272(11):7306–13

Heat stress induces a glycosylation of membrane sterol in myxoamoebae of a true slime mold, Physarum polycephalum. Murakami-Murofushi K, et al. **J Biol Chem** 1997 Jan 3;272(1):486–9

Heat shock response of Streptococcus pneumoniae: identification of immunoreactive stress proteins. Hamel J, et al. **Microb Pathog** 1997 Jul;23(1):11–21

Thermoelectric technique to precisely control hyperthermic exposures of human whole blood. DuBose DA, et al. **Mil Med** 1996 Dec;161(12):746–9

Applications of predictive environmental strain models. Reardon MJ, et al. **Mil Med** 1997 Feb;162(2):136–40 (35 ref.)

Prevention and management of heat-related illness among spectators and staff during the Olympic Games--Atlanta, July 6–23, 1996. **MMWR Morb Mortal Wkly Rep** 1996 Jul 26;45(29):631–3

[The ultrastructural changes in type-2 pneumocytes in experimental heat and endotoxic shock] Angelov A. **Eksp Med Morfol** 1994;32(3–4):27–39 (Eng. Abstr.) **(Bul)**

[Heat intolerance] Albukrek D, et al. **Harefuah** 1997 Apr 15;132(8):563–6 (47 ref.) **(Heb)**

COMPLICATIONS

Pathophysiology of bleeding in heat stress: an experimental study in sheep. Mohanty D, et al. **Exp Hematol** 1997 Jul; 25(7):615–9

Pathophysiology of overheating in a piglet model: findings compared with sudden infant death syndrome. Elder DE, et al. **J Paediatr Child Health** 1996 Apr;32(2):113–9

DIAGNOSIS

Oral and tympanic temperatures as heat strain indicators for workers wearing chemical protective clothing. Beaird JS, et al. **Am Ind Hyg Assoc J** 1996 Apr;57(4):344–7

Criteria for the diagnosis of heat-related deaths: National Association of Medical Examiners. Position paper. National Association of Medical Examiners Ad Hoc Committee on the Definition of Heat-Related Fatalities. Donoghue ER, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):11–4

Constitutive synthesis of heat shock protein (72 kD) in human peripheral blood mononuclear cells: implications for use as a clinical test of recent thermal stress. Bratton SL, et al. **Int J Hyperthermia** 1997 Mar–Apr;13(2):157–68

EPIDEMIOLOGY

Exertional heat illness in Marine Corps recruit training. Kark JA, et al. **Aviat Space Environ Med** 1996 Apr;67(4):354–60

Heat illness in Cyprus. Bricknell MC. **J R Army Med Corps** 1994 Jun;140(2):67–9

Heat illness: a comparison between UK and Cyprus reports. Bricknell MM. **J R Army Med Corps** 1996 Jun;142(2):59–61

Heat illness in the services. Dickinson JG. **J R Army Med Corps** 1994 Feb;140(1):7–12

Heat illness in the services [letter] Finnegan TP. **J R Army Med Corps** 1994 Oct;140(3):161–2

Deaths in the Chicago heat wave [letter; comment] Jones DS. **N Engl J Med** 1996 Dec 12;335(24):1848; discussion 1848–9. Comment on: N Engl J Med 1996 Jul 11;335(2):84–90. Comment on: N Engl J Med 1996 Jul 11;335(2):126–7.

Heat illness in the army in Cyprus. Bricknell MC. **Occup Med (Oxf)** 1996 Aug;46(4):304–12

ETIOLOGY

Comparison of a military chemical suit and an industrial usage vapor barrier suit across two thermal environments. Reneau PD, et al. **Am Ind Hyg Assoc J** 1997 Sep;58(9):646–9

Heat intolerance induced by antidepressants. Epstein Y, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:553–8

Role of endotoxins in the enhanced heat tolerance of fit subjects. Hales JR, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:545–7

The physiological strain induced by a new low burden chemical protective ensemble. Amos D, et al. **Aviat Space Environ Med** 1997 Feb;68(2):126–31

Sudden infant death syndrome: insulation from bedding and clothing and its effect modifiers. The National Cot Death Study Group. Williams SM, et al. **Int J Epidemiol** 1996 Apr;25(2):366–75

Exercise in the heat: strategies to minimize the adverse effects on performance. Terrados N, et al. **J Sports Sci** 1995 Summer;13 Spec No:S55–62 (49 ref.)

Risk factors predicting exertional heat illness in male Marine Corps recruits. Gardner JW, et al. **Med Sci Sports Exerc** 1996 Aug;28(8):939–44

Obesity and the occurrence of heat disorders. Chung NK, et al. **Mil Med** 1996 Dec;161(12):739–42

GENETICS

Repression of hybrid dysgenesis in Drosophila melanogaster by heat-shock-inducible sense and antisense P-element constructs. Simmons MJ, et al. **Genetics** 1996 Dec; 144(4):1529–44

METABOLISM

The effect of hyperthermia on intracellular sodium concentrations of isolated human cells. Gaffin SL, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:637–9

Reverse 3,3',5'-triiodothyronine (rT3) enhances hyperglycemic and lipemic effects of heat-stress in chickens. Bobek S, et al. **Horm Metab Res** 1997 May; 29(5):252–4

Effect of heat stress on glucose kinetics during exercise. Hargreaves M, et al. **J Appl Physiol** 1996 Oct;81(4):1594–7

Intracellular distribution of heat-induced stress glycoproteins. Jethmalani SM, et al. **J Cell Biochem** 1997 Jul 1;66(1):98–111

Heat stress induces tyrosine phosphorylation/activation of kinase FA/GSK-3 alpha (a human carcinoma dedifferentiation modulator) in A431 cells. Yang SD, et al. **J Cell Biochem** 1997 Jul 1;66(1):16–26

Tissue-specific variation in Hsp70 expression and thermal damage in Drosophila melanogaster larvae. Krebs RA, et al. **J Exp Biol** 1997 Jul;200 (Pt 14):2007–15

Heat stress improves functional recovery and induces synthesis of 27- and 70-kDa heat shock proteins without preserving sarcoplasmic reticulum function in the ischemic rat heart. Kontos MC, et al. **J Mol Cell Cardiol** 1996 Sep; 28(9):1885–94

Heat shock-induced manganese superoxide dismutase enhances the tolerance of cardiac myocytes to hypoxia-reoxygenation injury. Yamashita N, et al. **J Mol Cell Cardiol** 1997 Jul;29(7):1805–13

Time course of tolerance to ischemia-reperfusion injury and induction of heat shock protein 72 by heat stress in the rat heart. Yamashita N, et al. **J Mol Cell Cardiol** 1997 Jul; 29(7):1815–21

The heat shock-induced hyperphosphorylation of tau is estrogen-independent and prevented by androgens: implications for Alzheimer disease. Papasozomenos SC. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6612–7

[Differences in the stimulation of NO synthesis during heat shock in genetically different rats] Mikoian VD, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):634–7 **(Rus)**

MORTALITY

Criteria for the diagnosis of heat-related deaths: National Association of Medical Examiners. Position paper. National Association of Medical Examiners Ad Hoc Committee on the Definition of Heat-Related Fatalities. Donoghue ER, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):11–4

Mortality in Chicago attributed to the July 1995 heat wave. Whitman S, et al. **Am J Public Health** 1997 Sep; 87(9):1515–8

From the Centers for Disease Control and Prevention. Heat-related deaths--Dallas, Wichita, and Cooke counties, Texas, and United States, 1996. **JAMA** 1997 Aug 13; 278(6):462–3

Heat-related deaths — Dallas, Wichita, and Cooke counties, Texas, and United States, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Jun 13;46(23):528–31

Heat-wave-related mortality--Milwaukee, Wisconsin, July 1995. **MMWR Morb Mortal Wkly Rep** 1996 Jun 21; 45(24):505–7

PATHOLOGY

Morphological & morphometric studies on liver in rats subjected to repetitive heat stress. Sharma RK. **Indian J Med Res** 1997 Jul;106:20–6

PHYSIOPATHOLOGY

Heat stress protects the perfused rabbit heart from complement-mediated injury. Gralinski MR, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H571–8

Cardiovascular and sympathoadrenal responses to heat stress following water deprivation in rats. Massett MP, et al. **Am J Physiol** 1996 Mar;270(3 Pt 2):R652–9

Hyperthermia and heat illness. Pathophysiological implications for avoidance and treatment. Hales JR. **Ann N Y Acad Sci** 1997 Mar 15;813:534–44

HSP 70 kDa dynamics in animals undergoing heat stress superimposed on heat acclimation. Horowitz M, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:617–9

Heat acclimation and heat stress have different effects on cholinergic muscarinic receptors. Kaspler P, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:620–7

Involvement of nitric oxide in the pathophysiology of acute heat stress in the rat. Influence of a new antioxidant compound H-290/51. Sharma HS, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:581–90

Opioid receptor antagonists attenuate heat stress-induced reduction in cerebral blood flow, increased blood-brain barrier permeability, vasogenic edema and cell changes in the rat. Sharma HS, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:559–71

Age-related effects of heat stress on protective enzymes for peroxides and microsomal monooxygenase in rat liver. Ando M, et al. **Environ Health Perspect** 1997 Jul; 105(7):726–33

Effects of metabolic rate and ambient vapour pressure on heat strain in protective clothing. McLellan TM, et al. **Eur J Appl Physiol** 1996;74(6):518–27

The effect of climatic heat stress on intermittent supramaximal running performance in humans. Maxwell NS, et al. **Exp Physiol** 1996 Sep;81(5):833–45

Human heat tolerance in simulated environment. Nag PK, et al. **Indian J Med Res** 1997 May;105:226–34

Pathophysiology of overheating in a piglet model: findings compared with sudden infant death syndrome. Elder DE, et al. **J Paediatr Child Health** 1996 Apr;32(2):113–9

Aldosterone and vasopressin responses in the heat: hydration level and exercise intensity effects. Montain SJ, et al. **Med Sci Sports Exerc** 1997 May;29(5):661–8

Olympics in Atlanta: a fight against physics. Nielsen B. **Med Sci Sports Exerc** 1996 Jun;28(6):665–8

Relationship between aerobic power, blood volume, and thermoregulatory responses to exercise-heat stress. Yoshida T, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):867–73

Relating heat strain in the chemical defense ensemble to the ambient environment. Reneau P, et al. **Mil Med** 1996 Apr; 161(4):210–3

[Effect of heat shock on the endothelium-mediated reactions in the isolated rat aorta] Manukhina EB, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):148–51 **(Rus)**

[The protective effect of nitric oxide in heat shock] Manukhina EB, et al. **Izv Akad Nauk Ser Biol** 1997 Jan–Feb;(1):54–8 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

A lightweight ambient air-cooling unit for use in hazardous environments. Chen YT, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):10–4

Heat illness alert program. Practical implications for management and prevention. Khogali M. **Ann N Y Acad Sci** 1997 Mar 15;813:526–33

Control of liquid cooling garments: technical control of body heat storage. Hexamer M, et al. **Appl Human Sci** 1996 Jul; 15(4):177–85

Heat strain while wearing the current Canadian or a new hot-weather French NBC protective clothing ensemble. McLellan TM. **Aviat Space Environ Med** 1996 Nov; 67(11):1057–62

Setting heat stress limits for acclimatised soldiers exercising in heat. Bricknell MC. **J R Army Med Corps** 1997 Feb; 143(1):44–8

Prevention of heat strain by immersing the hands and forearms in water. House JR, et al. **J R Nav Med Serv** 1997;83(1):26–30

Exercise in the heat: strategies to minimize the adverse effects on performance. Terrados N, et al. **J Sports Sci** 1995 Summer;13 Spec No:S55–62 (49 ref.)

Wet bulb globe temperature index and performance in competitive distance runners. McCann DJ, et al. **Med Sci Sports Exerc** 1997 Jul;29(7):955–61

Preventing heat injury: military versus civilian perspective. Cooper JK. **Mil Med** 1997 Jan;162(1):55–8 (34 ref.)

The effects of prolonged passive heat exposure and basic military training on thermoregulatory and cardiovascular responses in recruits from a tropical country. Lim CL, et al. **Mil Med** 1997 Sep;162(9):623–7

Thirst quenchers cool the summer worker. Kendrick JM. **Occup Health Saf** 1997 Jul;66(7):45–6

[The protective effect of a NO-synthase inhibitor in heat shock] Manukhina EB, et al. **Izv Akad Nauk Ser Biol** 1996 Sep–Oct;(5):583–8 (Eng. Abstr.) **(Rus)**

THERAPY

Heat illness alert program. Practical implications for management and prevention. Khogali M. **Ann N Y Acad Sci** 1997 Mar 15;813:526–33

Heat illness in the services [letter] Gibson P, et al. **J R Army Med Corps** 1994 Oct;140(3):159

[The effect of a water-cooled vest on heat intolerance in a patient with anhidrosis due to familial amyloidosis of Finnish type] Ohnishi A, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1183–5 (Eng. Abstr.) **(Jpn)**

VETERINARY

The relationship between heat stress, survivability and blood composition of the domestic chicken. Bogin E, et al. **Eur J Clin Chem Clin Biochem** 1996 Jun;34(6):463–9

Heat-induced illness in dogs: 42 cases (1976–1993). Drobatz KJ, et al. **J Am Vet Med Assoc** 1996 Dec 1;209(11):1894–9

Responses of heat stressed chickens to exogenous reverse triiodothyronine (rT3). Bobek S, et al. **Zentralbl Veterinarmed A** 1996 Nov;43(9):521–30

HEAT STRESS SYNDROMES see **HEAT STRESS DISORDERS**

HEAT STROKE

Are these cases of heat stroke? [letter] Thacker AK, et al. **Indian Pediatr** 1996 May;33(5):434–5

BLOOD

Effect of classic heatstroke on serum procalcitonin. Nylén ES, et al. **Crit Care Med** 1997 Aug;25(8):1362–5

Blood lactate threshold and type II fibre predominance in patients with exertional heatstroke. Hsu YD, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):182–7

Activation of coagulation and fibrinolysis in heatstroke. Bouchama A, et al. **Thromb Haemost** 1996 Dec; 76(6):909–15

CHEMICALLY INDUCED

Oxybutynin–induced heatstroke in an elderly patient. Adubofour KO, et al. **Ann Pharmacother** 1996 Feb; 30(2):144–7

Heat stroke–like episode in a child caused by zonisamide. Shimizu T, et al. **Brain Dev** 1997 Jul;19(5):366–8

COMPLICATIONS

Heatstroke–induced cerebral ischemia and neuronal damage. Involvement of cytokines and monoamines. Lin MT. **Ann N Y Acad Sci** 1997 Mar 15;813:572–80 (54 ref.)

Central pontine myelinolysis in a patient with classic heat stroke [letter] McNamee T, et al. **Arch Neurol** 1997 Aug; 54(8):935–6

Liver transplantation in a case of fulminant liver failure after exertion [letter] Saissy JM. **Intensive Care Med** 1996 Aug; 22(8):831

Blood lactate threshold and type II fibre predominance in patients with exertional heatstroke. Hsu YD, et al. **J Neurol Neurosurg Psychiatry** 1997 Feb;62(2):182–7

Recurrent liver involvement in heatstroke. Sort P, et al. **Liver** 1996 Oct;16(5):335–7

[A case of hereditary sensory and autonomic neuropathy type IV diagnosed following the development of acute encephalopathy due to heat stroke] Juri T, et al. **No To Hattatsu** 1997 May;29(3):254–60 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Serial magnetic resonance images in a patient with congenital sensory neuropathy with anhidrosis and complications resembling heat stroke. Iwanaga R, et al. **J Neurol Sci** 1996 Oct;142(1–2):79–84

DRUG THERAPY

Effects of dantrolene on cooling times and cardiovascular parameters in an immature porcine model of heatstroke. Zuckerman GB, et al. **Crit Care Med** 1997 Jan;25(1):135–9

Heat stroke: opioid–mediated mechanisms. Romanovsky AA, et al. **J Appl Physiol** 1996 Dec;81(6):2565–70

Increased survival in experimental rat heatstroke by continuous perfusion of interleukin–1 receptor antagonist. Chiu WT, et al. **Neurosci Res** 1996 Jan;24(2):159–63

ENZYMOLOGY

Serum enzymes in heat stroke: prognostic implication. Alzeer AH, et al. **Clin Chem** 1997 Jul;43(7):1182–7

EPIDEMIOLOGY

Incidence and treatment of heat stroke [letter] Coles GV. **J Occup Environ Med** 1996 Jan;38(1):16

ETIOLOGY

Naltrexone modifies thermoregulatory symptoms and lessens the severity of heat stroke in guinea pigs. Romanovsky AA, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:548–52

IMMUNOLOGY

Heatstroke: community prevention and prospective immunotherapeutic interventions [editorial; comment] Farmer JC. **Crit Care Med** 1997 Aug;25(8):1263–4. Comment on: Crit Care Med 1997 Aug;25(8):1314–9.

Concentrations of soluble tumor necrosis factor and interleukin–6 receptors in heatstroke and heatstress [see comments] Hammami MM, et al. **Crit Care Med** 1997 Aug; 25(8):1314–9. Comment in: Crit Care Med 1997 Aug;25(8):1263–9.

Effect of classic heatstroke on serum procalcitonin. Nylén ES, et al. **Crit Care Med** 1997 Aug;25(8):1362–5

METABOLISM

Voltametric assessment of brain nitric oxide during heatstroke in rats. Canini F, et al. **Neurosci Lett** 1997 Aug 8; 231(2):67–70

[Increase of nitric oxide production in rat organs in heat shock] Manukhina EB, et al. **Biull Eksp Biol Med** 1996 May;121(5):520–3 **(Rus)**

MORTALITY

Heat–related deaths in Philadelphia—1993. Mirchandani HG, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):106–8

PATHOLOGY

Heat–related deaths in Philadelphia—1993. Mirchandani HG, et al. **Am J Forensic Med Pathol** 1996 Jun;17(2):106–8

Brain serotonin depletion attenuates heatstroke–induced cerebral ischemia and cell death in rats. Kao TY, et al. **J Appl Physiol** 1996 Feb;80(2):680–4

Predominance of type II fibres in exertional heat stroke. Epstein Y. **Lancet** 1997 Jul 12;350(9071):83–4

[A case of heat stroke with cortical laminar necrosis on vascular boundary zones] Akaboshi S, et al. **No To Hattatsu** 1996 Sep;28(5):434–7 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Hyperthermia–induced cardiac arrest in monkeys: limited efficacy of standard CPR. Eshel G, et al. **Aviat Space Environ Med** 1997 May;68(5):415–20

Disorders of temperature regulation. Lee–Chiong TL Jr, et al. **Compr Ther** 1995 Dec;21(12):697–704 (25 ref.)

Effects of dantrolene on cooling times and cardiovascular parameters in an immature porcine model of heatstroke. Zuckerman GB, et al. **Crit Care Med** 1997 Jan;25(1):135–9

Thermal regulatory dysfunction of growth hormone in classical heat stroke. Alzeer A, et al. **Eur J Endocrinol** 1996 Jun;134(6):727–30

Brain serotonin depletion attenuates heatstroke–induced cerebral ischemia and cell death in rats. Kao TY, et al. **J Appl Physiol** 1996 Feb;80(2):680–4

PREVENTION & CONTROL

Heatstroke: community prevention and prospective immunotherapeutic interventions [editorial; comment] Farmer JC. **Crit Care Med** 1997 Aug;25(8):1263–4. Comment on: Crit Care Med 1997 Aug;25(8):1314–9.

Heat stroke. Keeping your clients cool in the summer. Batscha CL. **J Psychosoc Nurs Ment Health Serv** 1997 Jul; 35(7):12–7

Protecting workers in hot environments. **Occup Health Saf** 1997 Aug;66(8):89

[Exertional heatstroke—diagnosis, treatment and prevention] Albukrek D, et al. **Harefuah** 1996 Jun 16;130(12):828–33 (41 ref.) **(Heb)**

[Adaptogen ADAPT modulates synthesis of inducible stress protein HSP 70 and increases organism resistance to heat shock] Prodius PA, et al. **Biull Eksp Biol Med** 1997 Jun; 123(6):629–31 **(Rus)**

THERAPY

Incidence and treatment of heat stroke [letter] Coles GV. **J Occup Environ Med** 1996 Jan;38(1):16

American College of Sports Medicine position stand. Heat and cold illnesses during distance running. Armstrong LE, et al. **Med Sci Sports Exerc** 1996 Dec;28(12):i–x (97 ref.)

HEAT WAVES see INFRARED RAYS

HEATING

Effects of nisin and temperature on survival, growth, and enterotoxin production characteristics of psychrotrophic Bacillus cereus in beef gravy. Beuchat LR, et al. **Appl Environ Microbiol** 1997 May;63(5):1953–8

Pressure and temperature effects on growth and viability of the hyperthermophilic archaeon Thermococcus peptonophilus. Canganella F, et al. **Arch Microbiol** 1997 Jul;168(1):1–7

In vitro and in vivo assessment of urethral warming catheters for the transperineal cryoablation of prostatic carcinoma. Cozzi PJ, et al. **Br J Urol** 1996 Oct;78(4):589–95

Full body forced air warming: commercial blanket vs air delivery beneath bed sheets. Kempen PM. **Can J Anaesth** 1996 Nov;43(11):1168–74

A simple method of warming local anaesthetic solutions [letter] Fuller JR, et al. **Eye** 1995;9 (Pt 6):809–10

Endometrial ablation by hysteroscopic instillation of hot saline solution. Goldrath MH, et al. **J Am Assoc Gynecol Laparosc** 1997 Feb;4(2):235–40 (13 ref.)

California residential air exchange rates and residence volumes. Wilson AL, et al. **J Expo Anal Environ Epidemiol** 1996 Jul–Sep;6(3):311–26

The effect of dry heat on the ME7 strain of mouse–passaged scrapie agent. Taylor DM, et al. **J Gen Virol** 1996 Dec; 77 (Pt 12):3161–4

Mind over matter about keeping warm [comment] Sperber AD, et al. **Lancet** 1997 May 10;349(9062):1337–8. Comment on: Lancet 1997 May 10;349(9062):1341–6.

Nitrogen dioxide, gas heating and respiratory illness [editorial] Pilotto LS, et al. **Med J Aust** 1997 Sep 15; 167(6):295–6

Redistribution of DNA topoisomerase II beta after in vitro stabilization of human erythroleukemic nuclei by heat or Cu++ revealed by confocal microscopy. Neri LM, et al. **Microsc Res Tech** 1997 Feb 1;36(3):179–87

Effect of heat stress on development in vitro and in vivo and on synthesis of heat shock proteins in porcine embryos. Kojima T, et al. **Mol Reprod Dev** 1996 Apr;43(4):452–7

Renal R2 chemoreceptor activity is attenuated after back heating in the rat. Wu MS, et al. **Neurosci Lett** 1997 Jun 27;229(2):101–4

Effect of cooking on the concentration of toxins associated with paralytic shellfish poison in lobster hepatopancreas. Lawrence JF, et al. **Toxicon** 1994 Jan;32(1):57–64

[Medical aspects of the use of gas jets with infrared irradiation for heating of industrial accommodations] Repin GN, et al. **Med Tr Prom Ekol** 1996;(9):42–5 (Eng. Abstr.) **(Rus)**

[Characteristics of microwave and thermal heating of samples of cell suspensions and solutions of several compounds] Morozov II, et al. **Radiats Biol Radioecol** 1996 Sep–Oct; 36(5):671–5 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Thermal–death times of opaque and translucent morphotypes of Vibrio vulnificus. Kim CM, et al. **Appl Environ Microbiol** 1997 Aug;63(8):3308–10

Magnetic field characteristics of electric bed–heating devices. Wilson BW, et al. **Bioelectromagnetics** 1996;17(3):174–9

Thermal burns from a chemical foot warmer packet [letter] Kelsey RS. **J Am Podiatr Med Assoc** 1996 Apr;86(4):186–7

From the Centers for Disease Control and Prevention. Home radiator burns among inner–city children—Chicago, September 1991–April 1994. **JAMA** 1996 Nov 6; 276(17):1374

Home radiator burns among inner–city children—Chicago, September 1991–April 1994. **MMWR Morb Mortal Wkly Rep** 1996 Sep 27;45(38):814–5

Kerosene heater–related injuries in children. Selbst SM, et al. **Pediatr Emerg Care** 1996 Apr;12(2):81–3

Dissipation of heat during polymerization of acrylics used for external skeletal fixator connecting bars. Martinez SA, et al. **Vet Surg** 1997 Jul–Aug;26(4):290–4

[Health risks from infrared emissions from radiant tube heaters in the workplace] Bergamaschi A, et al. **G Ital Med Lav** 1995 Jan–Nov;17(1–6):41–9 (Eng. Abstr.) **(Ita)**

INSTRUMENTATION

Shortening and superlon–wrapping the downstream tube can increase the useful range of the blood warmer. Tseng CC, et al. **Acta Anaesthesiol Sin** 1996 Sep;34(3):123–8

Thermal balance in term and preterm newborn infants nursed in an incubator equipped with a radiant heat source. Sjörs G, et al. **Acta Paediatr** 1997 Apr;86(4):403–9

Thermal equipment usage patterns in neonatal intensive care units: interunit variability and intraunit consistency. Seguin J, et al. **Am J Perinatol** 1997 May;14(5):267–70

Comparative study of antigen retrieval heating methods: microwave, microwave and pressure cooker, autoclave, and steamer. Taylor CR, et al. **Biotech Histochem** 1996 Sep;71(5):263–70

Domestic central heating radiators: a cause for concern in all age groups. Harper RD, et al. **Burns** 1996 May; 22(3):217–20

Magnetron–based inline microwave fluid warmer. Gibby GL, et al. **J Clin Monit** 1996 May;12(3):271–6

A safer alternative to the spirit lamp as a mirror warmer in otolaryngology. Coakley JF, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):329–30

[Dual accidental carbon monoxide poisoning] Theuerkauf I, et al. **Arch Kriminol** 1997 Mar–Apr;199(3–4):109–14 (Eng. Abstr.) **(Ger)**

[Bone bank management using a thermal disinfection system (Lobator SD–1). A critical analysis] Hofmann C, et al. **Unfallchirurg** 1996 Jul;99(7):498–508 (Eng. Abstr.) **(Ger)**

[Inactivation of HIV–1 in human femur heads using a heat disinfection system (Lobator SD–1)] von Garrel T, et al. **Unfallchirurg** 1997 May;100(5):375–81 (Eng. Abstr.) **(Ger)**

[Air–convection heater for abdominal surgery. Study of the relation between surgical time and the efficacy of body temperature maintenance (see comments)] Campos–Suárez JM, et al. **Rev Esp Anestesiol Reanim** 1997 Feb;44(2):47–51 (Eng. Abstr.). Comment in: Rev Esp Anestesiol Reanim 1997 Feb;44(2):45–6. **(Spa)**

[Warm air convection system and heat loss during vascular surgery] Muñiz G, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul;43(6):197–200 (Eng. Abstr.) **(Spa)**

METHODS

Warming devices in pediatric anesthesia. Leben J, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:812–7

Prevention of the adverse health effects of cold by using infrared heaters. Anttonen H, et al. **Arctic Med Res** 1995; 54 Suppl 2:55–9 (9 ref.)

Efficacy of intraoperative heat administration by ventilation with warm humidified gases and an oesophageal warming system [see comments] Beck E, et al. **Br J Anaesth** 1996 Oct;77(4):530–3. Comment in: Br J Anaesth 1997 Mar;78(3):343.

Intraoperative heat administration [letter; comment] Lloyd EL. **Br J Anaesth** 1997 Mar;78(3):343. Comment on: Br J Anaesth 1996 Oct;77(4):530–3.

Indoor air pollution by different heating systems: coal burning, open fireplace and central heating. Moriske HJ, et al. **Toxicol Lett** 1996 Nov;88(1–3):349–54

HEAVY CHAIN DISEASE

see related
IMMUNOGLOBULINS, HEAVY-CHAIN

HEAVY CHAIN DISEASE

COMPLICATIONS

Cast nephropathy in mu heavy chain disease. Preud'homme JL, et al. **Clin Nephrol** 1997 Aug;48(2):118–21

[Light and heavy chain deposition disease with cutaneous and renal manifestations] Safa G, et al. **Ann Dermatol Venereol** 1996;123(8):490–2 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

[Successful treatment of heavy-chain disease with etoposide] Ishikawa K, et al. **Nippon Ronen Igakkai Zasshi** 1997 Mar; 34(3):221–5 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Gamma-heavy chain deposition disease showing nodular glomerulosclerosis. Yasuda T, et al. **Clin Nephrol** 1995 Dec; 44(6):394–9

HEAVY CHAIN DISEASE, IGA TYPE see **IMMUNOPROLIFERATIVE SMALL INTESTINAL DISEASE**

HEAVY METALS see **METALS, HEAVY**

HEAVY WATER see **DEUTERIUM OXIDE**

HEBEPHRENIC SCHIZOPHRENIA see **SCHIZOPHRENIA, DISORGANIZED**

HECK'S DISEASE see **FOCAL EPITHELIAL HYPERPLASIA**

HEDGEHOGS

Fatal herpesvirus infection in a hedgehog (Erinaceus europaeus). Widén F, et al. **Vet Rec** 1996 Sep 7; 139(10):237–8

[Examination of commercial hedgehog feed for its quality (acceptance, digestibility, and nutritional composition)] Landes E, et al. **Tierarztl Prax** 1997 Apr;25(2):178–84 (Eng. Abstr.) **(Ger)**

[Rabid hedgehog in inner-city area of Budapest] Faragó Z. **Orv Hetil** 1997 Sep 7;138(36):2231–2 (Eng. Abstr.) **(Hun)**

ANATOMY & HISTOLOGY

Diencephalic connections of the superior colliculus in the hedgehog tenrec. Künzle H. **Exp Brain Res** 1996 Oct; 111(3):356–70

Catecholaminergic and serotoninergic fibres innervate the ventricular system of the hedgehog CNS. Michaloudi HC, et al. **J Anat** 1996 Oct;189 (Pt 2):273–83

Cortical and medullary somatosensory projections to the cochlear nuclear complex in the hedgehog tenrec. Wolff A, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):125–8

GENETICS

Isolation and characterization of six polymorphic microsatellite loci in the European hedgehog Erinaceus europaeus. Becher SA, et al. **Mol Ecol** 1997 Jan;6(1):89–90

Polarity, proliferation and the hedgehog pathway [news] Dean M. **Nat Genet** 1996 Nov;14(3):245–7

[Molecular systematic of hedgehogs (Erinaceidae, Insectivora) of the northeastern palearctic: testing the new method] Surin VL, et al. **Dokl Akad Nauk** 1997 Mar; 353(2):278–80 **(Rus)**

METABOLISM

Polarity, proliferation and the hedgehog pathway [news] Dean M. **Nat Genet** 1996 Nov;14(3):245–7

PHYSIOLOGY

Water turnover evaluated by the tritiated water method and by the nutritional method in European hedgehog (Erinaceus europaeus L.). Vignault MP, et al. **Comp Biochem Physiol A Physiol** 1996 Nov;115(3):187–94

Efferents from the lateral frontal cortex to spinomedullary target areas, trigeminal nuclei, and spinally projecting brainstem regions in the hedgehog tenrec. Künzle H, et al. **J Comp Neurol** 1996 Aug 12;372(1):88–110

Connections of the superior colliculus with the tegmentum and the cerebellum in the hedgehog tenrec. Künzle H. **Neurosci Res** 1997 Jun;28(2):127–45

Physiological response of the European hedgehog to predator and nonpredator odour. Ward JF, et al. **Physiol Behav** 1996 Dec;60(6):1469–72

HEDONISM see **PHILOSOPHY**

HEEL

see related
ACHILLES TENDON
CALCANEUS
TALUS

The painful foot, Part II: Common rearfoot deformities. Van Wyngarden TM. **Am Fam Physician** 1997 May 1; 55(6):2207–12 (07 ref.)

Low-energy extracorporeal shock wave therapy for painful heel: a prospective controlled single-blind study. Rompe JD, et al. **Arch Orthop Trauma Surg** 1996;115(2):75–9

Operative treatment of subcalcaneal pain. Tountas AA, et al. **Clin Orthop** 1996 Nov;(332):170–8

Infracalcaneal heel pain in the athlete. Agostinelli J, et al. **Clin Podiatr Med Surg** 1997 Jul;14(3):503–9 (14 ref.)

Diagnostic imaging of heel pain and plantar fasciitis. DiMarcangelo MT, et al. **Clin Podiatr Med Surg** 1997 Apr; 14(2):281–301 (47 ref.)

Chronic plantar heel pain: treatment with a short leg walking cast. Tisdel CL, et al. **Foot Ankle Int** 1996 Jan;17(1):41–2

Evaluation of magnetic foil and PPT Insoles in the treatment of heel pain. Caselli MA, et al. **J Am Podiatr Med Assoc** 1997 Jan;87(1):11–6

Unusual presentation of calcaneal osteomyelitis. Twenty-five years after inoculation. Rogoff RS, et al. **J Am Podiatr Med Assoc** 1997 Mar;87(3):125–30

Synovial osteochondromatosis of the retrocalcaneal bursa. A case report. Hashimoto N, et al. **J Bone Joint Surg Am** 1996 Nov;78(11):1741–5

A simple technique for assessing heel contact in orthoses. Grant AD, et al. **J Pediatr Orthop** 1996 May–Jun; 16(3):385–7

Magnetic resonance imaging in the evaluation of heel pain. Hall RL, et al. **Orthopedics** 1996 Mar;19(3):225–9

Miniwatermattress to prevent pressure sores over the heel [letter] Bhatnagar A. **Plast Reconstr Surg** 1997 Mar; 99(3):927–8

Heel pain as the inaugural manifestation of metastatic prostate cancer [letter] Gisserot O, et al. **Rev Rhum Engl Ed** 1996 Dec;63(11):870–1 (8 ref.)

ANATOMY & HISTOLOGY

Heel anatomy for retrograde tibiotalocalcaneal roddings: a roentgenographic and anatomic analysis. Flock TJ, et al. **Foot Ankle Int** 1997 Apr;18(4):233–5

BLOOD SUPPLY

Capillary blood sampling: should the heel be warmed? [letter; comment] Dunn PM. **Arch Dis Child Fetal Neonatal Ed** 1996 Sep;75(2):F143–4. Comment on: Arch Dis Child Fetal Neonatal Ed 1996 Mar;74(2):F139–40.

INJURIES

Free radial forearm flap to the foot after a shotgun injury: the day I became a patient. Cosgrove JM. **Br J Plast Surg** 1997 Jun;50(4):288–91

Lateral calcaneal artery flap for coverage of a posterior heel defect in a child. Schoen NS, et al. **J Foot Ankle Surg** 1996 Nov–Dec;35(6):567–72

Heel reconstruction. Cai J, et al. **Plast Reconstr Surg** 1997 Feb;99(2):448–53

[The repair of heel defect] Wu Z. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):130–1 (Eng. Abstr.) **(Chi)**

PATHOLOGY

Immobilizing heel pain in a runner [see comments] Sack KE. **Hosp Pract (Off Ed)** 1997 Mar 15;32(3):243. Comment in: Hosp Pract (Off Ed) 1997 May 15;32(5):25–6.

PHYSIOLOGY

The mechanical properties of the heel pad in elderly adults. Kinoshita H, et al. **Eur J Appl Physiol** 1996;73(5):404–9

PHYSIOPATHOLOGY

Rear foot inversion/eversion during gait relative to the subtalar joint neutral position [see comments] Pierrynowski MR, et al. **Foot Ankle Int** 1996 Jul;17(7):406–12. Comment in: Foot Ankle Int 1996 Dec;17(12):786.

RADIOGRAPHY

Radiographs in heel pain [letter; comment] Devitt N. **Bull Rheum Dis** 1997 Apr;46(2):1. Comment on: Bull Rheum Dis 1996 Jun;45(4):1–3.

SURGERY

Reconstruction of the heel pad in ankle disarticulation with a free muscle transfer. Pinzur MS, et al. **Am J Orthop** 1997 Jul;26(7):491–3

Free radial forearm flap to the foot after a shotgun injury: the day I became a patient. Cosgrove JM. **Br J Plast Surg** 1997 Jun;50(4):288–91

The distally based superficial sural flap for reconstruction of the lower leg and foot [letter; comment] Greant P. **Br J Plast Surg** 1997 Jun;50(4):295–6. Comment on: Br J Plast Surg 1996 Sep;49(6):383–9.

Arteriovenous fistula and pseudoaneurysm formation following heel endoscopy. O'Brien SP, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):240–1

Heel anatomy for retrograde tibiotalocalcaneal roddings: a roentgenographic and anatomic analysis. Flock TJ, et al. **Foot Ankle Int** 1997 Apr;18(4):233–5

Lateral calcaneal artery flap for coverage of a posterior heel defect in a child. Schoen NS, et al. **J Foot Ankle Surg** 1996 Nov–Dec;35(6):567–72

Heel reconstruction. Cai J, et al. **Plast Reconstr Surg** 1997 Feb;99(2):448–53

[The repair of heel defect] Wu Z. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 Mar;12(2):130–1 (Eng. Abstr.) **(Chi)**

ULTRASONOGRAPHY

The effect of ankle oedema on bone ultrasound assessment at the heel. Johansen A, et al. **Osteoporos Int** 1997;7(1):44–7

Ultrasonic measurement: an evaluation of three heel bone scanners compared with a bench-top system. Strelitzki R, et al. **Osteoporos Int** 1996;6(6):471–9

Diagnosis and treatment of heel pain in chronic inflammatory arthritis using ultrasound. Cunnane G, et al. **Semin Arthritis Rheum** 1996 Jun;25(6):383–9

HELA CELLS

Record of the first physician to see Henrietta Lacks at the Johns Hopkins Hospital: history of the beginning of the HeLa cell line. Jones HW Jr. **Am J Obstet Gynecol** 1997 Jun;176(6):S227–8

Differential expression of the human ST5 gene in HeLa-fibroblast hybrid cell lines mediated by YY1: evidence that YY1 plays a part in tumor suppression. Lichy JH, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4700–8

Nucleotide sequences of nuclear tRNA(Cys) genes from Nicotiana and Arabidopsis and expression in HeLa cell extract. Urban C, et al. **Plant Mol Biol** 1996 Nov; 32(3):549–52

CHEMISTRY

Heterogeneous structure of the polyubiquitin gene UbC of HeLa S3 cells. Nenoi M, et al. **Gene** 1996 Oct 10; 175(1–2):179–85

hnRNP proteins and B23 are the major proteins of the internal nuclear matrix of HeLa S3 cells. Mattern KA, et al. **J Cell Biochem** 1996 Aug;62(2):275–89

CYTOLOGY

Inhibition of colony formation of Hela cells by naturally occurring and synthetic agents. Abdullaev FI, et al. **Biofactors** 1995–96;5(3):133–8

DRUG EFFECTS

Toxicity and cytotoxicity of nigrin b, a two-chain ribosome-inactivating protein from Sambucus nigra: comparison with ricin. Battelli MG, et al. **Arch Toxicol** 1997;71(6):360–4

Inhibition of NADH oxidase activity and growth of HeLa cells by the antitumor sulfonylurea, N-(4-methylphenylsulfonyl)-N'-(4-chlorophenyl) urea (LY181984) and response to epidermal growth factor. Morré DJ, et al. **Biochim Biophys Acta** 1997 Feb 4; 1355(2):114–20

Paclitaxel-induced apoptosis in HeLa cells is serum dependent. Maldonado V, et al. **J Biochem Toxicol** 1996; 11(4):183–8

Mitochondrial damage by a new antitumour agent furanonaphthoquinone derivative in human cervical cancer HeLa cells. Pan J, et al. **J Electron Microsc (Tokyo)** 1997; 46(2):181–7

Antitumour-promoting and antitumour activities of the crude extract from the leaves of Juniperus chinensis. Ali AM, et al. **J Ethnopharmacol** 1996 Sep;53(3):165–9

Inhibition of plasma membrane NADH oxidase activity and growth of HeLa cells by natural and synthetic retinoids. Dai S, et al. **Mol Cell Biochem** 1997 Jan;166(1–2):101–9

Effect of hepatocyte growth factor on radiation response of HeLa, V79, CHO and primary cultured parenchymal hepatocyte in vitro. Yamazaki H, et al. **Radiat Med** 1996 Mar–Apr;14(2):81–5

Schedule dependence of the interaction of radiation and Taxol in HeLa cells. Talwar N, et al. **Radiat Res** 1997 Jul; 148(1):48–53

Copper ions differ from other thiol reactive metal ions in their effects on the concentration and redox status of thiols in HeLa cell cultures. Hultberg B, et al. **Toxicology** 1997 Feb 28;117(2–3):89–97

[A comparison of the patterns of delayed cell death after exposure to genotoxic agents] Gotlib VIa, et al. **Tsitologiia** 1996;38(9):974–82 (Eng. Abstr.) **(Rus)**

[The effect of trophoblast-specific beta 1-glycoprotein and oncoprecipitin A on the growth and morphology of HeLa-M tumor cells] Odintsova NA, et al. **Tsitologiia** 1997; 39(4–5):273–7 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

The alpha2L111R,N122D isoform of the Na,K-ATPase expressed in HeLa cells does not undergo an adipocyte-like increase in activity in response to insulin. Coppi MV, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):444–8

DNA ligase IV from HeLa cell nuclei. Robins P, et al. **J Biol Chem** 1996 Sep 27;271(39):24257–61

Characterization and localization of mitochondrial oligopeptidase (MOP) (EC 3.4.24.16) activity in the human cervical adenocarcinoma cell line HeLa. Krause DR, et al. **J Cell Biochem** 1997 Sep 1;66(3):297–308

Inhibition of ubiquitous mitochondrial creatine kinase expression in HeLa cells by an antisense oligodeoxynucleotide. Enjolras N, et al. **Mol Cell Biochem** 1997 Feb;167(1–2):113–25

IMMUNOLOGY

Degradation of human immunoglobulins and cytotoxicity on HeLa cells by live Trichomonas vaginalis. Min DY, et al. **Korean J Parasitol** 1997 Mar;35(1):39–46

METABOLISM

Anion channel blockers inhibit swelling-activated anion, cation, and nonelectrolyte transport in HeLa cells. Hall JA, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):C579–88

Expression of the rat brain creatine transporter in situ and in transfected HeLa cells. Saltarelli MD, et al. **Dev Neurosci** 1996;18(5–6):524–34

Identification of multiple regulatory elements of human L-histidine decarboxylase gene. Nakagawa S, et al. **J Biochem (Tokyo)** 1997 May;121(5):935–40

Cell-killing efficiency and number of platinum atoms binding to DNA, RNA and protein molecules of HeLa cells treated with combinations of trans-diaminedichloroplatinum(II) and hyperthermia. Akaboshi M, et al. **Jpn J Cancer Res** 1997 May;88(5):506–11

The induction of apoptosis in human cervical carcinoma (HeLa) cells by gamma-linolenic acid. de Kock M, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):403–11

MICROBIOLOGY

Effect of multiplicity of infection on Listeria monocytogenes pathogenicity for HeLa and Caco-2 cell lines. Francis MS, et al. **J Med Microbiol** 1996 Nov;45(5):323–30

In vitro study of a double infection by herpes simplex virus type 2 and Chlamydia trachomatis. Chiarini F, et al. **New Microbiol** 1996 Jul;19(3):263–6

Relationship between haemagglutination and HeLa-cell adherence of Rhodococcus equi. Bern D, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):147–53

[Serotypes of classical enteropathogenic Escherichia coli that produce changes in the small bowel ultrastructure and invasion of HeLa cells] Fagundes Neto U, et al. **Rev Assoc Med Bras** 1995 Sep-Oct;41(5):318–24 (Eng. Abstr.) **(Por)**

PHYSIOLOGY

Final checkpoint in the drug-promoted and poliovirus-promoted apoptosis is under post-translational control by growth factors. Tolskaya EA, et al. **J Cell Biochem** 1996 Dec 15;63(4):422–31

RADIATION EFFECTS

Correlation between slowly repairable double-strand breaks and thermal radiosensitization in the human HeLa S3 cell line. Kampinga HH, et al. **Int J Radiat Biol** 1997 Sep; 72(3):293–301

Inhibition of DNA synthesis and G1/S-phase transition in normal human fibroblasts elicited by a heat-labile trans-acting factor in gamma-irradiated HeLa cell extracts. Mirzayans R, et al. **Radiat Res** 1997 Jan;147(1):13–21

Schedule dependence of the interaction of radiation and Taxol in HeLa cells. Talwar N, et al. **Radiat Res** 1997 Jul; 148(1):48–53

[A comparison of the patterns of delayed cell death after exposure to genotoxic agents] Gotlib VIa, et al. **Tsitologiia** 1996;38(9):974–82 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Monitoring nuclear transport in HeLa cells using the green fluorescent protein. Chatterjee S, et al. **Biotechniques** 1996 Jul;21(1):62–3

East Hela and West Hela, in memory of Stella Mamaeva, 1939–1995. Chen TR. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):91–2

Inhibition of transcription by the TAR RNA of HIV-1 in a nuclear extract of HeLa cells. Yamamoto R, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3445–50

VIROLOGY

Defective HIV-1 provirus encoding a multitarget-ribozyme inhibits accumulation of spliced and unspliced HIV-1 mRNAs, reduces infectivity of viral progeny, and protects the cells from pathogenesis. Paik SY, et al. **Hum Gene Ther** 1997 Jun 10;8(9):1115–24

CD4, CXCR-4, and CCR-5 dependencies for infections by primary patient and laboratory-adapted isolates of human immunodeficiency virus type 1. Kozak SL, et al. **J Virol** 1997 Feb;71(2):873–82

In vitro study of a double infection by herpes simplex virus type 2 and Chlamydia trachomatis. Chiarini F, et al. **New Microbiol** 1996 Jul;19(3):263–6

HELIANTHUS

Occupational allergic contact dermatitis from sunflower. Gómez E, et al. **Contact Dermatitis** 1996 Sep;35(3):189–90

Influence of type of dietary fat (olive and sunflower oil) upon gastric acid secretion and release of gastrin, somatostatin, and peptide YY in man. Serrano P, et al. **Dig Dis Sci** 1997 Mar;42(3):626–33

Production responses by early lactation cows to whole sunflower seed or tallow supplementation of a diet based on barley. Markus SB, et al. **J Dairy Sci** 1996 Oct; 79(10):1817–25

Lactational responses of dairy cows fed unsaturated fat from extruded soybeans or sunflower seeds. Schingoethe DJ, et al. **J Dairy Sci** 1996 Jul;79(7):1244–9

Evaluation of Alternaria and its mycotoxins during ensiling of sunflower seeds. Dacero AM, et al. **Nat Toxins** 1997; 5(1):20–3

Colonic sunflower seed bezoar. Tsou VM, et al. **Pediatrics** 1997 Jun;99(6):896–7

CHEMISTRY

Disulphide structure of a sunflower seed albumin: conserved and variant disulphide bonds in the cereal prolamin superfamily. Egorov TA, et al. **FEBS Lett** 1996 Nov 4; 396(2–3):285–8

Purification, characterization, and sequencing of two cysteine proteinase inhibitors, Sca and Scb, from sunflower (Helianthus annuus) seeds. Kouzuma Y, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1106–13

Characterization of polar and nonpolar seed lipid classes from highly saturated fatty acid sunflower mutants. Alvarez-Ortega R, et al. **Lipids** 1997 Aug;32(8):833–7

ENZYMOLOGY

The predominant protein in peroxisomal cores of sunflower cotyledons is a catalase that differs in primary structure from the catalase in the peroxisomal matrix. Kleff S, et al. **Eur J Biochem** 1997 Apr 15;245(2):402–10

GENETICS

Interaction between proteins containing homeodomains associated to leucine zippers from sunflower. Gonzalez DH, et al. **Biochim Biophys Acta** 1997 Mar 20; 1351(1–2):137–49

GTG as translation initiation codon in the apocytochrome b gene of sunflower mitochondria. Siculella L, et al. **DNA Seq** 1996;6(6):365–9

Characterization of polar and nonpolar seed lipid classes from highly saturated fatty acid sunflower mutants. Alvarez-Ortega R, et al. **Lipids** 1997 Aug;32(8):833–7

Differential regulation of small heat-shock genes in plants: analysis of a water-stress-inducible and developmentally activated sunflower promoter. Coca MA, et al. **Plant Mol Biol** 1996 Jul;31(4):863–76

Differential and wound-inducible expression of 1-aminocylopropane-1-carboxylate oxidase genes in sunflower seedlings. Liu JH, et al. **Plant Mol Biol** 1997 Aug;34(6):923–33

Identification and expression of water stress- and abscisic acid-regulated genes in a drought-tolerant sunflower genotype. Ouvrard O, et al. **Plant Mol Biol** 1996 Jul; 31(4):819–29

East Gondwana ancestry of the sunflower alliance of families. Bremer K, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9188–90

Enhanced methionine levels and increased nutritive value of seeds of transgenic lupins (Lupinus angustifolius L.) expressing a sunflower seed albumin gene. Molvig L, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8393–8

METABOLISM

Studies on ion channel antagonist-binding sites in sunflower protoplasts. Vallée N, et al. **FEBS Lett** 1997 Jul 7; 411(1):115–8

Additivity of apparent and true ileal amino acid digestibilities in soybean meal, sunflower meal, and meat and bone meal for broilers. Angkanaporn K, et al. **Poult Sci** 1996 Sep; 75(9):1098–103

PHYSIOLOGY

Biochemical changes during regeneration of sunflower (Helianthus annuus L.). Martinelli L, et al. **Electrophoresis** 1996 Jan;17(1):191–7

HELICOBACTER

Parietal cell hyperactivity is not due to Helicobacter pylori infection in patients with duodenal ulcer [see comments] Valenzuela M, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2114–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1070–1.

Host factors in Helicobacter infection. Kapadia CR. **Gastroenterology** 1997 Jul;113(1):361–2

The stability of amoxycillin, clarithromycin and metronidazole in gastric juice: relevance to the treatment of Helicobacter pylori infection. Erah PO, et al. **J Antimicrob Chemother** 1997 Jan;39(1):5–12

A comparison of Helicobacter pylori and H. heilmannii gastritis. A matched control study involving 404 patients. Stolte M, et al. **Scand J Gastroenterol** 1997 Jan;32(1):28–33

Gastric ulcer associated with a Helicobacter-like organism in a cougar (Felis concolor). Hill JE, et al. **Vet Pathol** 1997 Jan;34(1):50–1

CLASSIFICATION

Helicobacter rodentium sp. nov., a urease-negative Helicobacter species isolated from laboratory mice. Shen Z, et al. **Int J Syst Bacteriol** 1997 Jul;47(3):627–34

A probability matrix for the identification of campylobacters, helicobacters and allied taxa. On SL, et al. **J Appl Bacteriol** 1996 Oct;81(4):425–32

DRUG EFFECTS

New pharmacokinetic in vitro model for studies of antibiotic activity against intracellular microorganisms. Hultén K, et al. **Antimicrob Agents Chemother** 1996 Dec;40(12):2727–31

In vitro antibacterial activity of omeprazole and its selectivity for Helicobacter spp. are dependent on incubation conditions. Sjöström JE, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):621–6

Evaluation of various oral antimicrobial formulations for eradication of Helicobacter hepaticus. Foltz CJ, et al. **Lab Anim Sci** 1996 Apr;46(2):193–7

GENETICS

Lack of p53 and ras mutations in Helicobacter hepaticus-induced liver tumors in A/JCr mice. Sipowicz MA, et al. **Carcinogenesis** 1997 Jan;18(1):233–6

Sequence similarities between large subunit ribosomal RNA gene intervening sequences from different Helicobacter species. Hurtado A, et al. **Gene** 1997 Jul 18;194(1):69–75

Infection of the ferret stomach by isogenic flagellar mutant strains of Helicobacter mustelae. Andrutis KA, et al. **Infect Immun** 1997 May;65(5):1962–6

Fecal PCR assay for diagnosis of Helicobacter infection in laboratory rodents. Beckwith CS, et al. **J Clin Microbiol** 1997 Jun;35(6):1620–3

IMMUNOLOGY

Local immunoglobulin G antibodies in the stomach may contribute to immunity against Helicobacter infection in mice. Ferrero RL, et al. **Gastroenterology** 1997 Jul; 113(1):185–94

Atrophic gastric changes in both Helicobacter felis and Helicobacter pylori infected mice are host dependent and separate from antral gastritis. Sakagami T, et al. **Gut** 1996 Nov;39(5):639–48

Novel intranasal immunization techniques for antibody induction and protection of mice against gastric Helicobacter felis infection. Weltzin R, et al. **Vaccine** 1997 Mar;15(4):370–6

ISOLATION & PURIFICATION

Helicobacter mustelae-associated gastric MALT lymphoma in ferrets. Erdman SE, et al. **Am J Pathol** 1997 Jul; 151(1):273–80

Identification methods for campylobacters, helicobacters, and related organisms. On SL. **Clin Microbiol Rev** 1996 Jul; 9(3):405–22 (198 ref.)

Gastritis in urease-immunized mice after Helicobacter felis challenge may be due to residual bacteria. Ermak TH, et al. **Gastroenterology** 1997 Oct;113(4):1118–28

The pig as an ulcer model [letter; comment] Mall AS, et al. **Gastroenterology** 1997 Jul;113(1):366–7. Comment on: Gastroenterology 1996 Jul;111(1):19–27.

Helicobacter trogontum sp. nov., isolated from the rat intestine. Mendes EN, et al. **Int J Syst Bacteriol** 1996 Oct; 46(4):916–21

Prevalence and varieties of Helicobacter species in dogs from random sources and pet dogs: animal and public health implications. Eaton KA, et al. **J Clin Microbiol** 1996 Dec; 34(12):3165–70

Helicobacter canis isolated from a dog liver with multifocal necrotizing hepatitis. Fox JG, et al. **J Clin Microbiol** 1996 Oct;34(10):2479–82

Isolation of a novel Helicobacter species, Helicobacter cholecystus sp. nov., from the gallbladders of Syrian hamsters with cholangiofibrosis and centrilobular pancreatitis. Franklin CL, et al. **J Clin Microbiol** 1996 Dec; 34(12):2952–8

Serodiagnosis of Helicobacter hepaticus infection in mice by an enzyme-linked immunosorbent assay. Livingston RS, et al. **J Clin Microbiol** 1997 May;35(5):1236–8

Helicobacter westmeadii sp. nov., a new species isolated from blood cultures of two AIDS patients. Trivett-Moore NL, et al. **J Clin Microbiol** 1997 May;35(5):1144–50

Comparison of diagnostic methods for detecting gastric Helicobacter-like organisms in dogs and cats. Happonen I, et al. **J Comp Pathol** 1996 Aug;115(2):117–27

Isolation of Helicobacter pullorum from patients with enteritis. Steinbrueckner B, et al. **Scand J Infect Dis** 1997; 29(3):315–8

Helicobacter cinaedi bacteraemia: varied clinical manifestations in three homosexual males. Tee W, et al. **Scand J Infect Dis** 1996;28(2):199–203

Helicobacter mustelae-associated gastric adenocarcinoma in ferrets (Mustela putorius furo). Fox JG, et al. **Vet Pathol** 1997 May;34(3):225–9

Occurrence and topographical mapping of gastric Helicobacter-like organisms and their association with histological changes in apparently healthy dogs and cats. Happonen I, et al. **Zentralbl Veterinarmed A** 1996 Jul; 43(5):305–15

PATHOGENICITY

Helicobacter hepaticus, a recently recognized bacterial pathogen, associated with chronic hepatitis and hepatocellular neoplasia in laboratory mice. Rice JM. **Emerg Infect Dis** 1995 Oct-Dec;1(4):129–31

The expanding genus of Helicobacter: pathogenic and

HELICOBACTER

zoonotic potential. Fox JG. **Semin Gastrointest Dis** 1997 Jul;8(3):124–41 (165 ref.)

Pathogenic role of gastric Helicobacter sp in domestic carnivores. Lecoindre P, et al. **Vet Res** 1997 May–Jun; 28(3):207–15 (34 ref.)

PHYSIOLOGY

The role of Helicobacter species in newly recognized gastrointestinal tract diseases of animals. Fox JG, et al. **Lab Anim Sci** 1997 Jun;47(3):222–55 (261 ref.)

HELICOBACTER INFECTIONS

Helicobacter pylori and peptic ulcer disease: evolution to revolution to resolution [see comments] Pattison CP, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1415–20 (70 ref.) . Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1403. Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1421–2.

Management of Helicobacter pylori Infection. Proceedings from a 3rd roundtable meeting. Ascot, England, 27–28 June 1996. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:1–115

Cure of Helicobacter pylori infection in the elderly: effects of eradication on gastritis and serological markers. Pilotto A, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1021–7

Does smoking predispose to peptic ulcer relapse after eradication of Helicobacter pylori? Chan FK, et al. **Am J Gastroenterol** 1997 Mar;92(3):442–5

Nonsteroidal anti–inflammatory drugs, Helicobacter pylori, and ulcers: where we stand. Graham DY. **Am J Gastroenterol** 1996 Oct;91(10):2080–6 (92 ref.)

Parietal cell mass, hydrochloric acid secretion, and Helicobacter pylori [letter; comment] Testino G. **Am J Gastroenterol** 1997 Jun;92(6):1070–1. Comment on: Am J Gastroenterol 1996 Oct;91(10):2114–9.

Helicobacter pylori. Seifrit B. **AORN J** 1997 Mar; 65(3):614–6, 619–20 (36 ref.)

Ethnicity as a risk factor for Helicobacter pylori infection and gastric cancer: environment, genetics, or both? [editorial] Talley NJ, et al. **Aust N Z J Med** 1996 Oct; 26(5):628–31

Prevalence of Helicobacter pylori at antral mucosa of patients with dyspepsia at University District Hospital. Mosquera RA, et al. **Bol Asoc Med P R** 1996 Oct–Dec;88(10–12):85–8

High prevalence of serum immunoglobulin G antibody to Helicobacter pylori and raised serum gastrin and pepsinogen levels in enlarged fold gastritis. Yasunaga Y, et al. **Can J Gastroenterol** 1997 Jul–Aug;11(5):433–6

Helicobacter pylori and gastric cancer: state of the art. Correa P. **Cancer Epidemiol Biomarkers Prev** 1996 Jun; 5(6):477–81

Helicobacter pylori: the versatile pathogen. McGuigan JE. **Dig Dis** 1996 Sep–Oct;14(5):289–303 (119 ref.)

Prevalence of Helicobacter pylori infection in 190 control subjects and in 236 patients with gastroesophageal reflux, erosive esophagitis or Barrett's esophagus. Csendes A, et al. **Dis Esophagus** 1997 Jan;10(1):38–42

Helicobacter pylori: clarifying the issues and curing the disease. Howden CW. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):389–92

Frontiers in Helicobacter pylori research: pathogenesis, host response, vaccine development and new therapeutic approaches. Michetti P, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):717–22

Mast cell involvement in gastritis with or without Helicobacter pylori infection. Nakajima S, et al. **Gastroenterology** 1997 Sep;113(3):746–54

Role of the host in Helicobacter disease [letter; comment] Nedrud JG, et al. **Gastroenterology** 1997 Feb;112(2):670. Comment on: Gastroenterology 1996 Jan;110(1):155–66. Comment on: Gastroenterology 1996 Jul;111(1):271.

European Helicobacter pylori Study Group. IXth International Workshop on Gastroduodenal Pathology and Helicobacter pylori. Copenhagen, Denmark, 16–19 October 1996. Abstracts. **Gut** 1996;39 Suppl 2:A1–131

European Helicobacter pylori Study Group. Xth International Workshop on Gastroduodenal Pathology and Helicobacter pylori. Lisbon, Portugal, 12–14 September 1997. Abstracts. **Gut** 1997;41 Suppl 1:A1–141

Relationship of p53 and c–erbB–2 expression to histopathological features, Helicobacter pylori infection and prognosis in gastric cancer. Shun CT, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):604–9

Helicobacter pylori: need for guidance [letter; comment] Bafna S. **Indian J Gastroenterol** 1997 Apr;16(2):78. Comment on: Indian J Gastroenterol 1997 Jan;16(1):3–5. Comment on: Indian J Gastroenterol 1997 Jan;16(1):16–7.

Helicobacter pylori—a review. Deodhar L. **Indian J Med Sci** 1996 Nov;50(11):293–8 (13 ref.)

2nd European Meeting on Pathogenesis and Host Response in Helicobacter pylori Infections. Galway, Ireland, March 23–25, 1997. Abstract. **Ir J Med Sci** 1997 Apr–Jun;166 Suppl 3:1–36

Guidelines for the management of Helicobacter pylori–related upper gastrointestinal diseases. Irish Helicobacter Pylori Study Group. Buckley M, et al. **Ir J Med Sci** 1996 Oct–Dec;165 Suppl 5:1–11 (74 ref.)

Gastric pathology by Helicobacter pylori: recent advances in physiopathology diagnosis and therapy. Naples, Italy, October 20, 1995. Budillon G, et al. **Ital J Gastroenterol** 1996 Jan;28(1):58–9

NIH consensus on Helicobacter pylori in peptic ulcer disease [letter; comment] [see comments] Zoorob RJ. **J Am Board Fam Pract** 1996 Sep–Oct;9(5):392. Comment on: J Am Board Fam Pract 1996 May–Jun;9(3):205–7. Comment in: J Am Board Fam Pract 1997 May–Jun;10(3):241–2.

Effects of sucralfate on vacuolating cytotoxin activity and adherence of Helicobacter pylori to human gastric epithelial cells. Smoot DT, et al. **J Assoc Acad Minor Phys** 1996;7(4):88–92

Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275–81

Proceedings of the 1st meeting of the Japanese Research Society for Helicobacter pylori–Related Gastroduodenal Diseases. Tokyo, Japan, April 15–16, 1995. **J Gastroenterol** 1996 Nov;31 Suppl 9:1–82

The 1st Western Pacific Helicobacter Congress. Guangzhou, People's Republic of China. 28 February–1 March 1996. Abstracts. **J Gastroenterol Hepatol** 1996;11 Suppl 1:A1–49

Review: Helicobacter pylori. Current issues and new directions. Forbes GM. **J Gastroenterol Hepatol** 1997 Jun; 12(6):419–24 (51 ref.)

Helicobacter pylori infection and the risk of gastric cancer among the Korean population. Kim HY, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):100–3

Helicobacter pylori: clinical aspects. McColl KE. **J Infect** 1997 Jan;34(1):7–13 (61 ref.)

Helicobacter pylori: current concepts. Neff G, et al. **J La State Med Soc** 1996 Aug;148(8):364–6 (15 ref.)

Helicobacter pylori infection and gastric pathology. Cracow, Poland, April 25–26, 1997. Abstracts. **J Physiol Pharmacol** 1997 Mar;48 Suppl 1:1–97

Basic and clinical aspects of Helicobacter pylori infection. International symposium of Jagiellonian Medical Faculty Fundation, Cracow, Poland, December 18, 1995. Abstracts. **J Physiol Pharmacol** 1995 Dec;46(4 Suppl 2):1–80

Not all Helicobacter pylori strains are created equal: should all be eliminated? [see comments] Blaser MJ. **Lancet** 1997 Apr 5;349(9057):1020–2. Comment in: Lancet 1997 Jul 5;350(9070):70–1; discussion 72. Comment in: Lancet 1997 Jul 5;350(9070):71; discussion 72. Comment in: Lancet 1997 Jul 5;350(9070):71–2.

Helicobacter pylori infection [see comments] Goodwin CS, et al. **Lancet** 1997 Jan 25;349(9047):265–9 (86 ref.). Comment in: Lancet 1997 Mar 22;349(9055):878–9. Comment in: Lancet 1997 Mar 22;349(9055):879. Comment in: Lancet 1997 Mar 22;349(9055):879–80.

The only good Helicobacter pylori is a dead Helicobacter pylori [letter; comment] Oderda G, et al. **Lancet** 1997 Jul 5;350(9070):71; discussion 72. Comment on: Lancet 1997 Apr 5;349(9057):1020–2.

Frequency of Helicobacter pylori infection in uremic hemodialyzed patients with antral gastritis [letter] Krawczyk W, et al. **Nephron** 1996;74(3):621–2

Helicobacter pylori infection. Hughes WT. **Pediatr Ann** 1996 Sep;25(9):491–3

Pathogenic properties of Helicobacter pylori [letter; comment] Nardone G, et al. **Scand J Gastroenterol** 1997 Apr;32(4):399–400. Comment on: Scand J Gastroenterol Suppl 1996;215:22–31.

The pH–Hp Challenge—From Mechanism to Management. Proceedings of a symposium. Copenhagen, Denmark, 29 April 1995. **Scand J Gastroenterol Suppl** 1996;215:1–122

Helicobacter pylori infection and dyspepsia. Armstrong D. **Scand J Gastroenterol Suppl** 1996;215:38–47 (86 ref.)

Helicobacter pylori and gastric cancer. Forman D. **Scand J Gastroenterol Suppl** 1996;215:48–51 (19 ref.)

Pathogenic properties of Helicobacter pylori [see comments] Moran AP. **Scand J Gastroenterol Suppl** 1996;215:22–31 (139 ref.). Comment in: Scand J Gastroenterol 1997 Apr;32(4):399–400.

Mucosal inflammation and disease in Helicobacter pylori infection. Veenendaal RA, et al. **Scand J Gastroenterol Suppl** 1996;218:86–91 (69 ref.)

Age at acquisition of Helicobacter pylori infection: comparison of a high and a low prevalence country. Lindkvist P, et al. **Scand J Infect Dis** 1996;28(2):181–4

Pathogenesis of gastric Helicobacter pylori. Moran AP. **Trends Microbiol** 1997 Jul;5(7):262–3

Manifestations of the local gastric immune response in gnotobiotic piglets infected with Helicobacter pylori. Krakowka S, et al. **Vet Immunol Immunopathol** 1996 Jul; 52(3):159–73

Helicobacter pylori infection: pediatric aspects. Sinatra FR. **West J Med** 1997 May;166(5):339–40

[Progresses in gastroenterology in China, 1996] Fan D, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):887–8 (0 ref.) **(Chi)**

[Micronucleus effect induced by Helicobacter pylori on human gastric mucous epithelial membrane] Ning T, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):139–40 (Eng. Abstr.) **(Chi)**

[Helicobacter pylori in 1997] Lassen AT, et al. **Ugeskr Laeger** 1997 Jun 9;159(24):3760–6 (40 ref.) (Eng. Abstr.) **(Dan)**

[Summary of the updated guideline 'Gastric Complaints' of the Dutch College of General Practitioners] Thomas S, et al. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):989–92 (Eng. Abstr.) **(Dut)**

[Ulcer disease and gastritis in time of Helicobacter pylori. Société Nationale Française de Gastro–entérologie et. Société Française de Chirurgie Digestive. Société Française d'Endoscopie Digestive. Société Française de Microbiologie. Société de Pathologie Infectieuse de Langue Française. Groupe d'Etude Français des Helicobacter.] **Gastroenterol Clin Biol** 1996;20(11):1009–12 (0 ref.) **(Fre)**

[Ulcerous disease and gastritis at the time of Helicobacter pylori] **Therapie** 1996 May–Jun;51(3):309–18 (0 ref.) **(Fre)**

[1997 Paul Ehrlich and Ludwig Darmstaedter Prize for the rediscovery of Helicobacter pylori to J. Robin Warren and Barry J. Marshall] Caspary WF. **Z Gastroenterol** 1997 Apr; 35(4):239–46 **(Ger)**

[Helicobacter pylori and malignant stomach neoplasms] Asaka M. **Nippon Naika Gakkai Zasshi** 1996 May 10; 85(5):767–71 (18 ref.) **(Jpn)**

[Gastric MALT lymphoma and Helicobacter pylori infection] Chiba T. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):233–40 (57 ref.) **(Jpn)**

[The course of gastric type epithelium in duodenal ulcer and duodenitis; role on the eradication of Helicobacter pylori] Urakami Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):893–902 (Eng. Abstr.) **(Jpn)**

[Helicobacter pylori and stomach ulcer—diagnosis and treatment in primary health care (letter)] Melby KK. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3392 **(Nor)**

[Is gastric cancer an infectious disease?] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Aug;88(8):555–62 (91 ref.) **(Spa)**

[H pylori—the most common infection in the world. Treatment should be based on correct indication!] Sjölund K, et al. **Lakartidningen** 1997 Aug 27;94(35):2909–10 **(Swe)**

BLOOD

Helicobacter pylori and vitamin A status in children [letter; comment] Khaled MA, et al. **Am J Clin Nutr** 1997 Sep; 66(3):707. Comment on: Am J Clin Nutr 1996 Oct;64(4):622–6.

Vitamin E and carotenoids in gastric biopsies: the relation to plasma concentrations in patients with and without Helicobacter pylori gastritis. Sanderson MJ, et al. **Am J Clin Nutr** 1997 Jan;65(1):101–6

Helicobacter pylori infection and blood groups [letter; comment] Carneiro F, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2646–7. Comment on: Am J Gastroenterol 1996 Jan;91(1):101–4.

Helicobacter pylori, hyperammonemia, and hepatic encephalopathy: is there a correlation? [letter] Rinaldi V, et al. **Am J Gastroenterol** 1997 Apr;92(4):723–4

Helicobacter pylori infection and blood group antigens: lack of clinical association. Umlauft F, et al. **Am J Gastroenterol** 1996 Oct;91(10):2135–8

Blood–group phenotypes, sulfomucins, and Helicobacter pylori in Barrett's esophagus. Torrado J, et al. **Am J Surg Pathol** 1997 Sep;21(9):1023–9

Helicobacter pylori infection and coagulation in healthy people. Parente F, et al. **BMJ** 1997 May 3;314(7090):1318–9

Effect of enprostil on omeprazole–induced hypergastrinemia and inhibition of gastric acid secretion in peptic ulcer patients. Tari A, et al. **Dig Dis Sci** 1997 Aug;42(8):1741–6

The Helicobacter pylori seroprevalence in blood donors related to Lewis (a,b) histo–blood group phenotype. Klaamas K, et al. **Eur J Gastroenterol Hepatol** 1997 Apr; 9(4):367–70

Helicobacter pylori Lewis expression is related to the host Lewis phenotype. Wirth HP, et al. **Gastroenterology** 1997 Oct;113(4):1091–8

Effects of Helicobacter pylori eradication therapy on hyperammonaemia in patients with liver cirrhosis [see comments] Miyaji H, et al. **Gut** 1997 Jun;40(6):726–30. Comment in: Gut 1997 Jun;40(6):805–6.

Blood groups Lewis(b) and ABH expression in gastric mucosa: lack of inter–relation with Helicobacter pylori colonisation and occurrence of gastric MALT lymphoma. Oberhuber G, et al. **Gut** 1997 Jul;41(1):37–42

Relationship of serum gastrin and Helicobacter pylori in the gastric antral and body mucosa [corrected and republished with original paging, article originally printed in Indian J Gastroenterol 1995 Jul; 14(3):99–101] Gill HH, et al. **Indian J Gastroenterol** 1995 Oct;14(4):99–101

Serum pepsinogen I levels and acid secretion in Helicobacter pylori associated enlarged fold gastritis. Yasunaga Y, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):457–61

Simple and rapid quantitative assay of 13C–labelled urea in human serum using liquid chromatography–atmospheric pressure chemical ionization mass spectrometry. Tanigawa T, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30; 683(2):135–42

Platelet activation In mice and human Helicobacter pylori infection. Elizalde JI, et al. **J Clin Invest** 1997 Sep 1; 100(5):996–1005

Serum pepsinogen C: a useful marker of Helicobacter pylori eradication? Plebani M, et al. **J Clin Lab Anal** 1996; 10(1):1–5

Seroprevalence of Helicobacter pylori in south Sweden and Iceland. Bergenzaun P, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1157–61

COMPLICATIONS

Occurrence and significance of Helicobacter pylori infection after gastric surgery. Bahnacy A, et al. **Acta Chir Hung** 1995–96;35(3–4):201–7

Helicobacter pylori: its role in ulcer disease and gastric cancer and how to detect the infection. Go MF. **Acta Gastroenterol Latinoam** 1996;26(1):45–9

NSAID–induced ulcers. Go MF. **Acta Gastroenterol Latinoam** 1996;26(2):115–8

Gastric MALT–lymphoma and Helicobacter pylori infection. Bayerdörffer E, et al. **Aliment Pharmacol Ther** 1997 Apr; 11 Suppl 1:89–94 (32 ref.)

Review article: symptom improvement through eradication of Helicobacter pylori in patients with non–ulcer dyspepsia. Laheij RJ, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):843–50 (89 ref.)

Re: W. de Boer: Gastric outlet obstruction and Helicobacter pylori [letter] Borody TJ, et al. **Am J Gastroenterol** 1997 Sep;92(9):1576–7

Helicobacter pylori and portal hypertensive gastropathy [letter; comment] Guslandi M. **Am J Gastroenterol** 1997 Apr;92(4):723. Comment on: Am J Gastroenterol 1996 Jul;91(7):1400–6.

Etiological involvement of Helicobacter pylori in "reflux" gastritis after gastrectomy. Nagahata Y, et al. **Am J Gastroenterol** 1996 Oct;91(10):2130–4

Ulcerogenesis: integrating the roles of Helicobacter pylori and acid secretion in duodenal ulcer. Peura DA. **Am J Gastroenterol** 1997 Apr;92(4 Suppl):8S–13S; discussion 13S–16S (63 ref.)

Guilty as charged: bugs and drugs in gastric ulcer. Sontag SJ. **Am J Gastroenterol** 1997 Aug;92(8):1255–61 (76 ref.)

Lansoprazole and omeprazole in the treatment of acid peptic disorders [see comments] Blum RA. **Am J Health Syst Pharm** 1996 Jun 15;53(12):1401–15 (174 ref.). Comment in: Am J Health Syst Pharm 1996 Dec 1;53(23):2882, 2884.

Eradication of Helicobacter pylori as the only successful treatment in rosacea [letter] Kolibášová K, et al. **Arch Dermatol** 1996 Nov;132(11):1393

Helicobacter pylori infection and growth delay in older children. Perri F, et al. **Arch Dis Child** 1997 Jul;77(1):46–9

Lack of evidence for an association between Helicobacter pylori infection and the anorexia of aging [letter; comment] Howden CW. **Arch Intern Med** 1997 Aug 11–25; 157(15):1771–3. Comment on: Arch Intern Med 1997 Feb 10;157(3):269–72.

Helicobacter pylori infection and anorexia of aging [see comments] Portnoi VA. **Arch Intern Med** 1997 Feb 10; 157(3):269–72. Comment in: Arch Intern Med 1997 Aug 11–25;157(15):1771–3.

Helicobacter pylori and atrophic gastritis. Kuipers EJ, et al. **Biomed Pharmacother** 1997;51(4):150–5 (67 ref.)

Helicobacter gastroduodenitis: a serious infectious disease [editorial] Axon A, et al. **BMJ** 1997 May 17; 314(7092):1430–1

Prospective study of Helicobacter pylori seropositivity and cardiovascular diseases in a general elderly population. Strandberg TE, et al. **BMJ** 1997 May 3;314(7090):1317–8

Do general practitioners inform patients of the association between Helicobactor pylori infection and gastric cancer prior to determining serostatus? Parry JM, et al. **Br J Gen Pract** 1997 May;47(418):311–2

Helicobacter pylori and gastric cancer. McFarlane GA, et al. **Br J Surg** 1997 Sep;84(9):1190–9 (163 ref.)

High prevalence of Helicobacter pylori infection in duodenal ulcer perforations not caused by non–steroidal anti–inflammatory drugs [see comments] Ng EK, et al. **Br J Surg** 1996 Dec;83(12):1779–81. Comment in: Br J Surg 1997 Jul;84(7):1029–30.

High prevalence of Helicobacter pylori infection in duodenal ulcer perforations not caused by non–steroidal anti–inflammatory drugs [letter; comment] Thulasimani M, et al. **Br J Surg** 1997 Jul;84(7):1029–30. Comment on: Br J Surg 1996 Dec;83(12):1779–81.

Duodenal ulcer and Helicobacter pylori infection at high altitude: experience from southern Saudi Arabia. Ahmed ME, et al. **Can J Gastroenterol** 1997 May–Jun;11(4):313–6

Helicobacter pylori highlights from the first Canadian Digestive Disease Week. Matisko A, et al. **Can J Gastroenterol** 1997 Jan–Feb;11(1):71–6

Helicobacter pylori antibodies in relation to precancerous gastric lesions in a high–risk Chinese population. Zhang L, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug; 5(8):627–30

Helicobacter pylori infection is related to atheroma in patients undergoing coronary angiography. Ossei–Gerning N, et al. **Cardiovasc Res** 1997 Jul;35(1):120–4

Helicobacter pylori infection and duodenal ulcer in children and adolescents. off Tsai CJ, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov–Dec;37(6):415–9

Helicobacter pylori and peptic ulcer disease: issues for primary care providers. Taniguchi DK, et al. **Compr Ther** 1996 Jul;22(7):434–9 (20 ref.)

Schönlein–Henoch purpura associated with gastric Helicobacter pylori infection [letter] Machet L, et al. **Dermatology** 1997;194(1):86

H. pylori infection in HIV–positive patients. A serohistological study. Fabris P, et al. **Dig Dis Sci** 1997 Feb;42(2):289–92

Role of Helicobacter pylori infection on upper gastrointestinal bleeding in the elderly: a case–control study. Pilotto A, et al. **Dig Dis Sci** 1997 Mar;42(3):586–91

Helicobacter pylori infection has no role in the pathogenesis of reflux esophagitis. Werdmuller BF, et al. **Dig Dis Sci** 1997 Jan;42(1):103–5

Frequency of Helicobacter pylori in gastroscopic biopsy of Ugandan Africans. Wabinga HR. **East Afr Med J** 1996 Oct; 73(10):691–3

Helicobacter pylori, gastritis and non–ulcer dyspepsia in Ethiopian patients. Tsega E, et al. **Ethiop Med J** 1996 Apr; 34(2):65–71

Gastric cancer and Helicobacter pylori. Muñoz N. **Eur J Cancer Prev** 1996 Oct;5(5):405–8 (33 ref.)

Helicobacter pylori and gastric cancer. Reed PI. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:49–55

Future directions in research of endogenous production on N–nitroso compounds. Stockbrügger RW. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:67–9 (21 ref.)

Extraintestinal pathology associated with Helicobacter infection [editorial] Gasbarrini A, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):231–3 (29 ref.)

Update on Helicobacter pylori research. Malignancies. Gasbarrini G, et al. **Eur J Gastroenterol Hepatol** 1997 Jun; 9(6):621–3

Consensus or confusion: a review of existing national guidelines on Helicobacter pylori–related disease. Lee J, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):527–31 (37 ref.)

Update on Helicobacter pylori research. Dyspepsia. Malfertheiner P, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):624–5

Duodenal ulcer disease. Tytgat GN. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):829–33 (44 ref.)

The prevalence of Helicobacter pylori infection and types of gastritis in diabetic patients. The Kraków Study. Mallecki M, et al. **Exp Clin Endocrinol Diabetes** 1996; 104(5):365–9

Effect of Helicobacter pylori eradication therapy on dyspeptic symptoms in primary care. Hobbs FD, et al. **Fam Pract** 1996 Jun;13(3):225–8

Widespread clonal B–cell disorder in Sjögren's syndrome predisposing to Helicobacter pylori–related gastric lymphoma. De Vita S, et al. **Gastroenterology** 1996 Jun; 110(6):1969–74

Gastric mucosa during treatment with lansoprazole: Helicobacter pylori is a risk factor for argyrophil cell hyperplasia [comment] Eissele R, et al. **Gastroenterology** 1997 Mar;112(3):707–17. Comment on: Gastroenterology 1997 Mar;112(3):1033–6.

Decision analysis and Helicobacter pylori ulcer disease: powerful clinical tool or potential for powerful clinical error? Fennerty MB. **Gastroenterology** 1996 Jun; 110(6):2018–9

Is the only good H. pylori a dead H. pylori? Fennerty MB. **Gastroenterology** 1996 Dec;111(6):1773–4

Curing Helicobacter pylori infection in patients with duodenal ulcer may provoke reflux esophagitis. Labenz J, et al. **Gastroenterology** 1997 May;112(5):1442–7

Helicobacter pylori infection and chronic gastric acid hyposecretion. El–Omar EM, et al. **Gastroenterology** 1997 Jul;113(1):15–24

Studies on the interrelation between Zollinger–Ellison syndrome, Helicobacter pylori, and proton pump inhibitor therapy. Weber HC, et al. **Gastroenterology** 1997 Jan; 112(1):84–91

Genetic alterations in gastric cancer: relation to histological subtypes, tumor stage, and Helicobacter pylori infection. Wu MS, et al. **Gastroenterology** 1997 May;112(5):1457–65

Gastric malignancy. Ellis KK, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):545–63 (111 ref.)

Significance of Helicobacter pylori infection and gastric cancer: implications for screening. Moayyedi P, et al. **Gastrointest Endosc Clin N Am** 1997 Jan;7(1):47–64 (141 ref.)

The clinical relevance of strain types of Helicobacter pylori. Atherton JC. **Gut** 1997 Jun;40(6):701–3 (36 ref.)

Evaluation of Helicobacter pylori in reflux oesophagitis and Barrett's oesophagus. Newton M, et al. **Gut** 1997 Jan; 40(1):9–13

Risk for gastric cancer in people with CagA positive or CagA negative Helicobacter pylori infection [see comments] Parsonnet J, et al. **Gut** 1997 Mar;40(3):297–301. Comment in: ACP J Club 1997 Sep–Oct;127(2):50.

Effects of aspirin and Helicobacter pylori on the gastroduodenal mucosal permeability to sucrose. Rabassa AA, et al. **Gut** 1996 Aug;39(2):159–63

Relation between Helicobacter pylori infection and gastrointestinal symptoms and syndromes. Rosenstock S, et al. **Gut** 1997 Aug;41(2):169–76

B–cell clonality and infection with Helicobacter pylori: implications for development of gastric lymphoma. Sorrentino D, et al. **Gut** 1996 Jun;38(6):837–40

Helicobacter pylori, ammonia and the brain [comment] Taylor–Robinson SD, et al. **Gut** 1997 Jun;40(6):805–6. Comment on: Gut 1997 Jun;40(6):726–30.

Lack of serologic evidence for Helicobacter pylori infection in head and neck cancer. Grandis JR, et al. **Head Neck** 1997 May;19(3):216–8

Helicobacter pylori seropositivity in subjects with acute myocardial infarction. Rathbone B, et al. **Heart** 1996 Oct; 76(4):308–11

Hyperhomocysteinaemia, Helicobacter pylori, and coronary heart disease. Sung JJ, et al. **Heart** 1996 Oct;76(4):305–7

Prospective relations between Helicobacter pylori infection, coronary heart disease and stroke in middle–aged men [letter; comment] Wincup PH, et al. **Heart** 1997 Mar; 77(3):294. Comment on: Heart 1996 Jun;75(6):568–72.

Relationship of p53 and c–erbB–2 expression to histopathological features, Helicobacter pylori infection and prognosis in gastric cancer. Shun CT, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):604–9

Helicobacter pylori infection and adenocarcinoma arising in Barrett's esophagus. Quddus MR, et al. **Hum Pathol** 1997 Sep;28(9):1007–9

Gastric lymphoma and Helicobacter pylori. Isaacson PG, et al. **Important Adv Oncol** 1996;:111–21 (58 ref.)

Liver tumorigenesis by Helicobacter hepaticus: considerations of mechanism. Canella KA, et al. **In Vivo** 1996 May–Jun;10(3):285–92 (70 ref.)

Long–term anti–inflammatory drug use and Helicobacter pylori infection: a clinical, endoscopic and histological study. Kulkarni SG, et al. **Indian J Gastroenterol** 1996 Oct; 15(4):118–21

Is Helicobacter pylori a gastric carcinogen? [editorial; comment] [see comments] Mohandas KM. **Indian J Gastroenterol** 1997 Jan;16(1):3–5. Comment on: Indian J Gastroenterol 1997 Jan;16(1):16–7. Comment in: Indian J Gastroenterol 1997 Apr;16(2):78.

Helicobacter pylori and intestinal metaplasia of gastric mucosa [see comments] Satarkar RP, et al. **Indian J Gastroenterol** 1997 Jan;16(1):16–7. Comment in: Indian J Gastroenterol 1997 Jan;16(1):3. Comment in: Indian J Gastroenterol 1997 Apr;16(2):78.

Endoscopic, histologic and microbiologic evaluation of upper abdominal pain with special reference to Helicobacter pylori infection [see comments] Kumar M, et al. **Indian Pediatr** 1996 Nov;33(11):905–9. Comment in: Indian Pediatr 1996 Nov;33(11):899–903.

Helicobacter pylori infection [editorial; comment] Patwari AK. **Indian Pediatr** 1996 Nov;33(11):899–903 (7 ref.). Comment on: Indian Pediatr 1996 Nov;33(11):905–9.

Chronic atrophic gastritis and Helicobacter pylori infection in primary biliary cirrhosis: a cross–sectional study with matching [see comments] Floreani A, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):13–7. Comment in: Ital J Gastroenterol Hepatol 1997 Feb;29(1):5–10.

Helicobacter and liver disease [editorial; comment] Fox JG, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):5–10 (68 ref.). Comment on: Ital J Gastroenterol Hepatol 1997 Feb;29(1):13–7.

Sweet's syndrome associated with Helicobacter pylori infection. Kürkçüoğlu N, et al. **J Am Acad Dermatol** 1997 Jul;37(1):123–4

Symptomatic gastric sarcoidosis and Helicobacter pylori infection. Pope JB, et al. **J Am Board Fam Pract** 1996 Nov–Dec;9(6):451–4

Successful dilatation of pyloric stricture resistant to balloon dilatation with electrocautery using a sphincterotome. Boron B, et al. **J Clin Gastroenterol** 1996 Oct;23(3):239–41

Nonulcer dyspepsia: association with chronic Helicobacter pylori infection–related gastritis? Ching CK, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S140–5 (79 ref.)

Role of Helicobacter pylori in chronic gastritis: a prospective study. Kudo M, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S174–8

Meta–analysis of risk factors for peptic ulcer. Nonsteroidal antiinflammatory drugs, Helicobacter pylori, and smoking. Kurata JH, et al. **J Clin Gastroenterol** 1997 Jan;24(1):2–17

Endoscopic diagnosis of gastritis in relation to Helicobacter pylori infection and subjective symptoms. Sakaki N. **J Clin Gastroenterol** 1995;21 Suppl 1:S135–9

Helicobacter pylori eradication helps resolve pyloric and duodenal stenosis. Tursi A, et al. **J Clin Gastroenterol** 1996 Sep;23(2):157–8

Endoscopic ultrasound in the evaluation of gastric small lymphocytic mucosa–associated lymphoid tumors. Pavlick AC, et al. **J Clin Oncol** 1997 May;15(5):1761–6

Association between Helicobacter pylori infection and serum pepsinogen concentrations in gastroduodenal disease. Matsumoto K, et al. **J Clin Pathol** 1996 Dec;49(12):1005–8

Helicobacter pylori seropositivity and cardiovascular risk factors in a multicultural workforce. Scragg RK, et al. **J Epidemiol Community Health** 1996 Oct;50(5):578–9

Helicobacter pylori infection and risk of peptic ulcer among cirrhotic patients. Wang CH, et al. **J Formos Med Assoc** 1997 Jan;96(1):55–8

Significance of Helicobacter pylori infection as a risk factor in gastric cancer: serological and histological studies. Barreto–Zuñiga R, et al. **J Gastroenterol** 1997 Jun; 32(3):289–94

Helicobacter pylori infection delays the healing of acetic acid–induced gastric ulcer in Japanese monkeys. Kodama R, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1097–102

Increased prevalence of Helicobacter pylori infection among patients affected with intestinal–type gastric cancer at non–cardiac locations. Wu MS, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):425–8

Seroprevalence and epidemiology of Helicobacter pylori infection in patients with cirrhosis. Calvet X, et al. **J Hepatol** 1997 Jun;26(6):1249–54

Helicobacter felis as a cofactor alone or together with stress in cryptosporidial activation in mice. Tatar G, et al. **J Int Med Res** 1995 Nov–Dec;23(6):473–9

Helicobacter pylori and the cell cycle [editorial; comment] Correa P. **J Natl Cancer Inst** 1997 Jun 18;89(12):836–7. Comment on: J Natl Cancer Inst 1997 Jun 18;89(12):863–8.

Portal hypertensive gastropathy in children with extrahepatic

portal venous obstruction: role of variceal obliteration by endoscopic sclerotherapy and Helicobacter pylori infection. Yachha SK, et al.
J Pediatr Gastroenterol Nutr 1996 Jul;23(1):20–3

Helicobacter pylori gastritis in a child with sickle cell anemia and recurrent abdominal pain. Kennedy L, et al.
J Pediatr Hematol Oncol 1997 Mar–Apr;19(2):163–4

Helicobacter pylori is not associated with nonspecific abdominal pain in children. Yoshida NR, et al.
J Pediatr Surg 1996 Jun;31(6):747–9

Pathogenesis to prescription: progress in understanding and treating acid related disorders. Hunt RH.
J R Nav Med Serv 1996 Summer;82(2):122–33 (125 ref.)

Helicobacter pylori: the cancer link [see comments] O'Connor F, et al. **J R Soc Med** 1996 Dec;89(12):674–8 (53 ref.). Comment in: J R Soc Med 1997 Mar;90(3):180. Comment in: J R Soc Med 1997 Jun;90(6):359.

Helicobacter pylori and iron deficiency [editorial; comment] Wood H, et al. **JAMA** 1997 Apr 9;277(14):1166–7. Comment on: JAMA 1997 Apr 9;277(14):1135–9.

Pervasive occult gastrointestinal bleeding in an Alaska native population with prevalent iron deficiency. Role of Helicobacter pylori gastritis [see comments] Yip R, et al. **JAMA** 1997 Apr 9;277(14):1135–9. Comment in: JAMA 1997 Apr 9;277(14):1166–7.

Chronic infections and coronary heart disease: is there a link? [see comments] Danesh J, et al. **Lancet** 1997 Aug 9; 350(9075):430–6 (62 ref.). Comment in: Lancet 1997 Aug 9;350(9075):378–9.

Association of Helicobacter pylori infection with primary Raynaud phenomenon [letter] Gasbarrini A, et al.
Lancet 1996 Oct 5;348(9032):966–7

Gastric Helicobacter pylori infection as a cause of idiopathic Parkinson disease and non-arteric anterior optic ischemic neuropathy. Altschuler E. **Med Hypotheses** 1996 Nov; 47(5):413–4

Immature cells and Helicobacter pylori infection in early gastric cancer. An immunohistochemical study. Testino G. **Minerva Med** 1997 May;88(5):183–6

Helicobacter pylori, gastric ulcer, and duodenal ulcer [letter; comment] Graham JR. **N Engl J Med** 1996 Dec 12; 335(24):1842; discussion 1842–3. Comment on: N Engl J Med 1996 Jul 25;335(4):242–9. Comment on: N Engl J Med 1996 Jul 25;335(4):278–80.

Helicobacter pylori, gastric ulcer, and duodenal ulcer [letter; comment] Mitchell HM, et al. **N Engl J Med** 1996 Dec 12;335(24):1841; discussion 1842–3. Comment on: N Engl J Med 1996 Jul 25;335(4):242–9. Comment on: N Engl J Med 1996 Jul 25;335(4):278–80.

Helicobacter pylori, gastric ulcer, and duodenal ulcer [letter; comment] Rubin CE. **N Engl J Med** 1996 Dec 12; 335(24):1841–2; discussion 1842–3. Comment on: N Engl J Med 1996 Apr 18;334(16):1018–22. Comment on: N Engl J Med 1996 Jul 25;335(4):278–80.

Helicobacter pylori infection and gastric carcinoma. Dwivedi M. **Natl Med J India** 1996 Sep–Oct;9(5):222–3

Prevalence of Helicobacter pylori antibodies in CAPD patients [letter] Antoniou S, et al. **Nephron** 1997;75(3):358–9

Chronic abdominal pain and Helicobacter pylori. Adams RM.
Pediatr Infect Dis J 1997 May;16(5):534–5

The infectious etiology of peptic ulcer disease. Diagnosis and implications for therapy. Brooks MJ, et al. **Prim Care** 1996 Sep;23(3):443–54 (39 ref.)

The growth of primary low-grade B-cell gastric lymphoma is sustained by Helicobacter pylori. Cammarota G, et al.
Scand J Gastroenterol 1997 Mar;32(3):285–7

Gastritis classified in accordance with the Sydney system in patients with primary Sjögren's syndrome. Collin P, et al. **Scand J Gastroenterol** 1997 Feb;32(2):108–11

Helicobacter pylori and gastric cancer: an overrated risk? Crespi M, et al. **Scand J Gastroenterol** 1996 Nov; 31(11):1041–6 (69 ref.)

Helicobacter pylori infection in young patients with gastric carcinoma. Kokkola A, et al. **Scand J Gastroenterol** 1996 Jul;31(7):643–7

Reversal of long-standing iron deficiency anaemia after eradication of Helicobacter pylori infection. Marignani M, et al. **Scand J Gastroenterol** 1997 Jun;32(6):617–22

Severity of Helicobacter pylori gastritis predicts duodenal ulcer recurrence. Miehlke S, et al.
Scand J Gastroenterol 1996 Sep;31(9):856–62

Helicobacter pylori and gastric cancer. Forman D.
Scand J Gastroenterol Suppl 1996;220:23–6 (17 ref.)

Helicobacter pylori and gastric carcinogenesis. Kuipers EJ, et al. **Scand J Gastroenterol Suppl** 1996;218:103–5 (33 ref.)

Role of Helicobacter pylori in the pathogenesis of atrophic gastritis. Kuipers EJ, et al. **Scand J Gastroenterol Suppl** 1997;223:28–34 (104 ref.)

Ulcer bleeding and perforation: non-steroidal anti-inflammatory drugs or Helicobacter pylori. Svanes C, et al. **Scand J Gastroenterol Suppl** 1996;220:128–31 (43 ref.)

Helicobacter cinaedi bacteraemia: varied clinical manifestations in three homosexual males. Tee W, et al.
Scand J Infect Dis 1996;28(2):199–203

Helicobacter pylori infection increases the risk of peptic ulcers in chronic users of non-steroidal anti-inflammatory drugs. Li EK, et al. **Scand J Rheumatol** 1996;25(1):42–6

Working Party report of the Gastroenterological Society of Singapore. Part I--Helicobacter pylori and peptic ulcer disease in Singapore. Kang JY, et al. **Singapore Med J** 1996 Jun;37(3):304–6

Working party report of the Gastroenterological Society of Singapore. Part II--Helicobacter pylori and non-ulcer dyspepsia in Singapore. Kang JY, et al.
Singapore Med J 1996 Aug;37(4):428–9

Helicobacter pylori and gastric neoplasia. Sharma BC, et al.
Trop Gastroenterol 1996 Oct–Dec;17(4):236–7 (23 ref.)

Incidence of Helicobacter pylori infection in Ghanaian patients with dyspeptic symptoms referred for upper gastrointestinal endoscopy. Baako BN, et al.
West Afr J Med 1996 Oct–Dec;15(4):223–7

[Prevalence of Helicobacter pylori infection in Tananarive, Madagascar] Cassel-Béraud AM, et al.
Bull Soc Pathol Exot 1997;90(1):6–9 (Eng. Abstr.) **(Fre)**

[Helicobacter pylori, achlorhydria and gastric atrophy: what kind of "ménage à trois"?] Bretagne JF, et al.
Gastroenterol Clin Biol 1997;21(2):117–23 (108 ref.) **(Fre)**

[Gastric MALT lymphoma and Helicobacter pylori (letter)] Moussu P, et al. **Gastroenterol Clin Biol** 1996;20(6–7):613–4 **(Fre)**

[Gastric lymphomas: role of Helicobacter pylori] Ruskoné-Fourmestraux A. **Presse Med** 1997 Feb 15; 26(4):184–9 (26 ref.) **(Fre)**

[Helicobacter pylori and MALT gastric lymphomas] Belaiche J. **Rev Med Liege** 1997 May;52(5):352–4 (12 ref.) **(Fre)**

[Stomach cancer and MALT lymphoma: prevention with Helicobacter pylori eradication] Fischbach W.
Dtsch Med Wochenschr 1997 Aug 1;122(31–32):983–7 (67 ref.) **(Ger)**

[Association of chronic urticaria with Helicobacter pylori-induced antrum gastritis] Bohmeyer J, et al.
Hautarzt 1996 Feb;47(2):106–8 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori associated gastrointestinal mucosal lesions: is there an increased risk during therapy with nonsteroidal antirheumatic agents?] Pöllmann G, et al.
Z Rheumatol 1997 Mar–Apr;56(2):71–5 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori infection as a cause of recurrent abdominal pain in children] Cinquetti M, et al.
Pediatr Med Chir 1997 Jan–Feb;19(1):17–21 (Eng. Abstr.) **(Ita)**

[The relationship between hemorrhagic gastric ulcers often appearing among in the great Hanshin-Awaji earthquake sufferers and Helicobacter pylori infections] Kurokawa M, et al. **Kansenshogaku Zasshi** 1996 Sep;70(9):970–5 (Eng. Abstr.) **(Jpn)**

[Helicobacter pylori infection--from gastritis to stomach cancer] Asaka M. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1540–5 (12 ref.) **(Jpn)**

[The effect of Helicobacter pylori infection and duodenogastric reflux on the histology of gastric mucosa in peptic ulcers] Kopański Z, et al. **Folia Med Cracov** 1996; 37(1–2):3–14 (Eng. Abstr.) **(Pol)**

[Duodenogastric reflux and Helicobacter pylori infection in chronic gastritis--evaluation of risk factor significance and risk factor interactions] Kopański Z, et al.
Folia Med Cracov 1995;36(1–4):21–32 (Eng. Abstr.) **(Pol)**

[Helicobacter pylori infections--relative risk factor for stomach neoplasm] Muszyński J, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):223–6 **(Pol)**

[Role of Helicobacter pylori in the etiology of duodenal ulcer recurrence after selective proximal vagotomy] Mitrokhina TV, et al. **Khirurgiia (Mosk)** 1996;(2):39–42 (Eng. Abstr.) **(Rus)**

[Reflux gastritis due to Helicobacter pylori as the cause of unsatisfactory results of cholecystectomy] Gnatiuk NG, et al. **Klin Khir** 1997;(1):16–7 (Eng. Abstr.) **(Rus)**

[Ulcer course features in the presence of Helicobacter and Herpes infections] Vinogradova MA, et al.
Klin Med (Mosk) 1997;75(5):26–7 **(Rus)**

[Correlation among endoscopic, histological, and microbiological findings in gastroduodenal pathology associated with Helicobacter pylori] Carmona Sáez TJ, et al. **An Med Interna** 1996 Jun;13(6):269–73 (Eng. Abstr.) **(Spa)**

[Survey on Helicobacter pylori and peptic ulcer in Spain] Pajares García JM, et al. **Rev Esp Enferm Dig** 1996 Oct; 88(10):695–9 (Eng. Abstr.) **(Spa)**

[Mexican consensus on Helicobacter pylori. National Consensus Group of the Mexican Association of Gastroenterology] **Rev Gastroenterol Mex** 1997 Jan–Mar; 62(1):41–5 (0 ref.) **(Spa)**

[Peptic ulcer: control of pH and/or eradication of Helicobacter pylori] Bosques Padilla F.
Rev Gastroenterol Mex 1996 Oct–Dec;61(4 Suppl 2):S25–9 **(Spa)**

[Swedish registries are of favour for epidemiological research] Lennholm B. **Lakartidningen** 1996 Nov 27; 93(48):4436 **(Swe)**

[A holistic perspective in a new Swedish study. Connection between H pylori and cancer] Lennholm B.
Lakartidningen 1996 Nov 27;93(48):4432–5 **(Swe)**

[Helicobacter pylori may cause stomach cancer. The connection is not yet completely surveyed] Wadström T, et al. **Lakartidningen** 1997 Aug 27;94(35):2947–50 (15 ref.) **(Swe)**

DIAGNOSIS

Imprint cytology in the diagnosis of Helicobacter pylori infection. Rey E, et al. **Acta Cytol** 1997 Jul–Aug; 41(4):1144–6

Helicobacter pylori: its role in ulcer disease and gastric cancer and how to detect the infection. Go MF.
Acta Gastroenterol Latinoam 1996;26(1):45–9

Symptomatology of Helicobacter pylori infection in children. Blecker U, et al. **Acta Paediatr** 1996 Oct;85(10):1156–8

Recurrent abdominal pain and Helicobacter pylori: a comment [letter; comment] Radke M. **Acta Paediatr** 1997 Jun;86(6):671–3. Comment on: Acta Paediatr 1996 Aug;85(8):961–4.

Non-endoscopic tests in the diagnosis of Helicobacter pylori infection. Atherton JC. **Aliment Pharmacol Ther** 1997 Apr; 11 Suppl 1:11–20 (107 ref.)

Endoscopic methods for the diagnosis of Helicobacter pylori. Cohen H, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:3–9 (28 ref.)

Feasibility of analysing [13C]urea breath tests for Helicobacter pylori by gas chromatography-mass spectrometry in the selected ion monitoring mode. Kasho VN, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):985–95

Helicobacter pylori serology and the management of young dyspeptics: a UK survey of gastroenterologists and general practitioners with an interest in gastroenterology. Lim AG, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):299–303

The influence of isolated doses of drugs, feeding and colonic bacterial ureolysis on urea breath test results. Perri F, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):705–9

Detection of serum antibodies to Helicobacter pylori by an immunochromatographic method. Anderson JC, et al.
Am J Gastroenterol 1997 Jul;92(7):1135–9

Evaluation of whole blood antibody kit to detect active Helicobacter pylori infection. Borody TJ, et al.
Am J Gastroenterol 1996 Dec;91(12):2509–12

Diagnostic tests for H. pylori: a prospective evaluation of their accuracy, without selecting a single test as the gold standard [letter; comment] Cutler AF.
Am J Gastroenterol 1997 Mar;92(3):538–9. Comment on: Am J Gastroenterol 1996 Oct;91(10):2125–9.

Diagnose and treat Helicobacter pylori as any other infectious disease [letter; comment] de Boer WA, et al.
Am J Gastroenterol 1996 Oct;91(10):2255–6. Comment on: Am J Gastroenterol 1996 Feb;91(2):188–90. Comment on: Am J Gastroenterol 1996 Feb;91(2):228–32.

Incorrect gold standard in diagnostic tests for Helicobacter pylori [letter; comment] Jamart J. **Am J Gastroenterol** 1997 Jun;92(6):1071. Comment on: Am J Gastroenterol 1996 Oct;91(10):2125–9.

Testing for Helicobacter pylori infection after antibiotic treatment [editorial; comment] Katelaris PH, et al.
Am J Gastroenterol 1997 Aug;92(8):1245–7. Comment on: Am J Gastroenterol 1997 Aug;92(8):1268–74.

Helicobacter pylori infection in Eastern Europe: seroprevalence in the Polish population of Lower Silesia. Matysiak-Budnik T, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2513–5

Gastric juice urease activity as a diagnostic test for Helicobacter pylori infection. Mokuolu AO, et al.
Am J Gastroenterol 1997 Apr;92(4):644–8

Double-contrast upper gastrointestinal examination with nonendoscopic biopsy: replacement for endoscopy? Ott DJ.
Am J Gastroenterol 1997 Jul;92(7):1233–4

13C-urea breath test for Helicobacter pylori: a second look analysis [letter; comment] Pattison CP, et al.
Am J Gastroenterol 1996 Nov;91(11):2447–9. Comment on: Am J Gastroenterol 1996 Apr;91(4):690–4.

Accuracy of invasive and noninvasive tests to diagnose Helicobacter pylori infection after antibiotic treatment [see comments] Rollán A, et al. **Am J Gastroenterol** 1997 Aug; 92(8):1268–74. Comment in: Am J Gastroenterol 1997 Aug;92(8):1245–7.

Diagnostic tests for Helicobacter pylori: a prospective evaluation of their accuracy, without selecting a single test as the gold standard [see comments] Thijs JC, et al.
Am J Gastroenterol 1996 Oct;91(10):2125–9. Comment in: Am J Gastroenterol 1997 Mar;92(3):538–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1071.

Prospective, multivariate evaluation of CLOtest performance. Weston AP, et al. **Am J Gastroenterol** 1997 Aug;92(8):1310–5

Evaluation of handling methods in the histological diagnosis of Helicobacter pylori: the effect of filter paper. Yokoi T, et al. **Am J Gastroenterol** 1996 Nov;91(11):2344–6

Comparison of agar gel (CLOtest) or reagent strip (PyloriTek) rapid urease tests for detection of Helicobacter pylori infection. Yousfi MM, et al. **Am J Gastroenterol** 1997 Jun;92(6):997–9

Detection methods of Helicobacter pylori: accuracy and costs. Onders RP. **Am Surg** 1997 Aug;63(8):665–8

Management strategies for Helicobacter pylori-seropositive patients with dyspepsia: clinical and economic consequences [see comments] Ofman JJ, et al.
Ann Intern Med 1997 Feb 15;126(4):280–91 (69 ref.). Comment in: Ann Intern Med 1997 Feb 15;126(4):315–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):244.

Helicobacter pylori: when to test, when to treat [editorial; comment] Rabeneck L, et al. **Ann Intern Med** 1997 Feb 15;126(4):315–6. Comment on: Ann Intern Med 1997 Feb 15;126(4):280–91.

Diagnosis and treatment of Helicobacter pylori infection among California Medicare patients. Roll J, et al.
Arch Intern Med 1997 May 12;157(9):994–8

37 kBq 14C-urea breath test and gastric biopsy analyses of H. pylori infection. Allardyce RA, et al.
Aust N Z J Surg 1997 Jan;67(1):31–4

Validation of a rapid whole blood test for diagnosing

Helicobacter pylori infection. A crucial reference just missed being cited [letter; comment] Bateson MC. **BMJ** 1997 Jun 7;314(7095):1690. Comment on: **BMJ** 1997 Jan 11;314(7074):119.

Sensitivity testing for Helicobacter pylori should be more widely available [letter; comment] Cammarota G, et al. **BMJ** 1996 Oct 26;313(7064):1079–80. Comment on: **BMJ** 1996 Jul 20;313(7050):172–3.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Likelihood ratios should be routinely reported [letter; comment] Dawes M, et al. **BMJ** 1997 Jun 7;314(7095):1690; discussion 1690–1. Comment on: **BMJ** 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Test needs full evaluation in primary care [letter; comment] Delaney B, et al. **BMJ** 1997 Jun 7;314(7095):1689–90; discussion 1690–1. Comment on: **BMJ** 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Conflicting results from the Helisal test [letter; comment] Duggan A, et al. **BMJ** 1997 Jun 7;314(7095):1688–9; discussion 1690–1. Comment on: **BMJ** 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Likelihood ratios provide more information with little effort [letter; comment] Hawke C. **BMJ** 1997 Jun 7;314(7095):1690; discussion 1690–1. Comment on: **BMJ** 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Endoscopy of only those who are positive for H pylori could miss other diagnoses [letter; comment] Johnston BT. **BMJ** 1997 Jun 7; 314(7095):1690; discussion 1690–1. Comment on: **BMJ** 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection [see comments] Moayyedi P, et al. **BMJ** 1997 Jan 11;314(7074):119. Comment in: **BMJ** 1997 Jun 7;314(7095):1688–9; discussion 1690–1. Comment in: **BMJ** 1997 Jun 7;314(7095):1689; discussion 1690–1. Comment in: **BMJ** 1997 Jun 7;314(7095):1689–90; discussion 1690–1. Comment in: **BMJ** 1997 Jun 7;314(7095):1690. Comment in: **BMJ** 1997 Jun 7;314(7095):1690; discussion 1690–1.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Assessment lacked certain considerations [letter; comment] Robinson RJ, et al. **BMJ** 1997 Jun 7;314(7095):1689; discussion 1690–1. Comment on: **BMJ** 1997 Jan 11;314(7074):119.

The use of a near patient serological test for H pylori [letter] Burton C. **Br J Gen Pract** 1996 Aug;46(409):492

Evaluation of salivary antibodies to detect infection with Helicobacter pylori. Loeb MB, et al. **Can J Gastroenterol** 1997 Jul–Aug;11(5):437–40

Helicobacter pylori highlights from the first Canadian Digestive Disease Week. Matisko A, et al. **Can J Gastroenterol** 1997 Jan–Feb;11(1):71–6

Validity of the 13–C–urea breath test for the diagnosis of Helicobacter pylori infection. Kajiwara M, et al. **Chem Pharm Bull (Tokyo)** 1997 Apr;45(4):741–3

The accuracy of the rapid urease test and 13C–urea breath test in the diagnosis of Helicobacter pylori infection. Ho AS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec; 58(6):400–6

H pylori 1997: testing and treatment options. Falk GW. **Cleve Clin J Med** 1997 Apr;64(4):187–92 (19 ref.)

Evaluation of a rapid, new method for detecting serum IgG antibodies to Helicobacter pylori. Sharma TK, et al. **Clin Chem** 1997 May;43(5):832–6

13C–urea breath test for Helicobacter pylori: cut–off point determination by cluster analysis. Mion F, et al. **Clin Sci (Colch)** 1997 Jul;93(1):3–6

Diagnosis of Helicobacter pylori in gastric brush and biopsy specimens stained by Romanowsky and immunocytochemical methods: comparison with the CLOtest. Faraker CA. **Cytopathology** 1996 Apr;7(2):108–19

Modification of Christensen urease test as an inexpensive tool for detection of Helicobacter pylori. Domínguez–Bello MG, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):149–52

Changes in gastrin and serum pepsinogens in monitoring of Helicobacter pylori response to therapy. Pérez–Paramo M, et al. **Dig Dis Sci** 1997 Aug;42(8):1734–40

Validity of a novel biopsy urease test (HUT) and a simplified 13C–urea breath test for diagnosis of Helicobacter pylori infection and estimation of the severity of gastritis. Labenz J, et al. **Digestion** 1996 Nov–Dec;57(6):391–7

Helicobacter pylori testing kits. **Drug Ther Bull** 1997 Mar; 35(3):23–4 (19 ref.)

Implications of Helicobacter pylori serological titer for the histological severity of antral gastritis. Sheu BS, et al. **Endoscopy** 1997 Jan;29(1):27–30

The effect of measurement error on the determination of Helicobacter pylori prevalence. Cockburn M, et al. **Epidemiology** 1997 Mar;8(2):205–9

Influence of oropharyngeal flora and specimen pretreatment on the recovery of Helicobacter pylori. Jonkers D, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):378–82

Quantitative polymerase chain reaction for the detection of Helicobacter pylori in gastric biopsy specimens. Monteiro L, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb; 16(2):143–9

Culture of Helicobacter pylori from gastric biopsies transported in biopsy urease test tubes. Rautelin H, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):380–3

Evaluation of a serological test for diagnosis of Helicobacter pylori infection in children. Raymond J, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):415–7

Effect of specimen collection techniques, transport media, and incubation of cultures on the detection rate of Helicobacter pylori. van der Hulst RW, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):211–5

Comparison of three urease tests for detection of Helicobacter pylori in gastric biopsy specimens. Boyanova L, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):911–4

The breath test—a call for more regional use. Heaney A, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):693–6

Ongoing gastric acid inhibition is a confounding factor in Helicobacter pylori diagnosis. Jonkers D, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):49–53

Update on Helicobacter pylori research. Diagnosis. Klein PD, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):617–8

Modified rapid urease test for detection of Helicobacter pylori infection. Malfertheiner P, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):53–6

The most important diagnostic modalities for Helicobacter pylori, now and in the future. Mégraud F. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S13–5; discussion S27–9 (4 ref.)

Do patients need to fast for a 13C–urea breath test? Moayyedi P, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):275–7

Extra–gastrointestinal diseases and Helicobacter pylori. Ponzetto A. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):616

Helicobacter pylori infection status in relation to antibiotic and non–steroidal prescribing in patients on maintenance treatment for chronic duodenal ulcer. Prach AT, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):251–6

Near patient testing for Helicobacter pylori: a detailed evaluation of the Cortecs Helisal Rapid Blood test. Stone MA, et al. **Eur J Gastroenterol Hepatol** 1997 Mar; 9(3):257–60

Practical diagnosis of Helicobacter pylori infection. van Zwet AA, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):501–7 (83 ref.)

Significance of the 14C–urea breath test in the determination of the location infected by Helicobacter pylori in the alimentary canal. Kopański Z, et al. **Eur J Med Res** 1997 Mar 24;2(3):136–8

Diagnostic tests for Helicobacter pylori infection. Cutler AF. **Gastroenterologist** 1997 Sep;5(3):202–12 (68 ref.)

Serum 13C–bicarbonate assay for the diagnosis of gastric Helicobacter pylori infection and response to treatment. Kim MJ, et al. **Gastroenterology** 1997 Jul;113(1):31–7

Helicobacter pylori Lewis expression is related to the host Lewis phenotype. Wirth HP, et al. **Gastroenterology** 1997 Oct;113(4):1091–8

The new urea membrane tests: BUT, RUT, or what? [editorial] Bickston SJ, et al. **Gastrointest Endosc** 1996 Nov; 44(5):626–7

Does staining gastric mucosa with methylene blue spraying method affect diagnosis of Helicobacter pylori? [letter; comment] Demirturk L, et al. **Gastrointest Endosc** 1996 Jan;43(1):81. Comment on: Gastrointest Endosc 1994 May–Jun;40(3):397–8.

Prospective comparison of H&E, Giemsa, and Genta stains for the diagnosis of Helicobacter pylori. Laine L, et al. **Gastrointest Endosc** 1997 Jun;45(6):463–7

Prospective comparison of commercially available rapid urease tests for the diagnosis of Helicobacter pylori. Laine L, et al. **Gastrointest Endosc** 1996 Nov;44(5):523–6

The influence of size or number of biopsies on rapid urease test results: a prospective evaluation. Laine L, et al. **Gastrointest Endosc** 1996 Jan;43(1):49–53

The influence of warming on rapid urease test results: a prospective evaluation. Laine L, et al. **Gastrointest Endosc** 1996 Oct;44(4):429–32

Quantitative breath testing does not predict the presence of peptic ulcer disease [letter] Lewis JD, et al. **Gastrointest Endosc** 1997 Jul;46(1):94

Evaluation of initial noninvasive therapy in pediatric patients presenting with suspected ulcer disease. Olson AD, et al. **Gastrointest Endosc** 1996 Nov;44(5):554–61

Topical anesthesia and urease tests [letter] Rey E, et al. **Gastrointest Endosc** 1996 Dec;44(6):760

Quantitative noninvasive testing for Helicobacter pylori does not predict gastroduodenal ulcer disease. Sharma TK, et al. **Gastrointest Endosc** 1996 Dec;44(6):679–82

Lack of association between helicobacter pylori and gastric atrophy or intestinal metaplasia in elderly patients. Liston R, et al. **Gerontology** 1996;42(2):97–103

Is saliva serology useful for the diagnosis of Helicobacter pylori? Christie JM, et al. **Gut** 1996 Jul;39(1):27–30

A citric acid solution is an optimal test drink in the 13C–urea breath test for the diagnosis of Helicobacter pylori infection. Domínguez–Muñoz JE, et al. **Gut** 1997 Apr; 40(4):459–62

The Helicobacter pylori breath test: a surrogate marker for peptic ulcer disease in dyspeptic patients. McColl KE, et al. **Gut** 1997 Mar;40(3):302–6

Comparison of serum, salivary, and rapid whole blood diagnostic tests for Helicobacter pylori and their validation against endoscopy based tests. Reilly TG, et al. **Gut** 1997 Apr;40(4):454–8

Detection of Helicobacter pylori infection using single serum specimens: comparison of five commercial serological tests. Allerberger F, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1656–9

Helicobacter pylori infection and adenocarcinoma arising in Barrett's esophagus. Quddus MR, et al. **Hum Pathol** 1997 Sep;28(9):1007–9

Molecular diagnosis of Helicobacter pylori. Westblom TU. **Immunol Invest** 1997 Jan–Feb;26(1–2):163–74 (77 ref.)

Helicobacter pylori gastritis masquerading as gastric lymphoma. Nagral S, et al. **Indian J Gastroenterol** 1995 Oct;14(4):151–2

Endoscopic, histologic and microbiologic evaluation of upper abdominal pain with special reference to Helicobacter pylori infection [see comments] Kumar M, et al. **Indian Pediatr** 1996 Nov;33(11):905–9. Comment in: Indian Pediatr 1996 Nov;33(11):899–903.

Changing patterns in the management of duodenal ulcers [editorial] McCormack G, et al. **Ir Med J** 1996 Jul–Aug; 89(4):126, 130

Comparison of various Helicobacter pylori detection methods: serology, histology and bacteriology. Sternberg A, et al. **Isr J Med Sci** 1997 Mar;33(3):160–3

Evidence against colonic mucosa colonisation by Helicobacter pylori. Lack of a specific antibody response in homogenates of rectal endoscopic biopsies. Luzza F, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):447–51

Cirrhosis negatively affects the efficiency of serologic diagnosis of Helicobacter pylori infection. Nardone G, et al. **Ital J Gastroenterol** 1996 Jul–Aug;28(6):332–6

Value of serology (ELISA) for the diagnosis of Helicobacter pylori infection: evaluation in patients attending endoscopy and in those with fundic atrophic gastritis. Tucci A, et al. **Ital J Gastroenterol** 1996 Sep;28(7):371–6

Helicobacter pylori in peptic ulcer disease: report of an NIH consensus conference [see comments] Berg AO. **J Am Board Fam Pract** 1996 May–Jun;9(3):205–7 (4 ref.) . Comment in: J Am Board Fam Pract 1996 Sep–Oct;9(5):392.

Breath test, endoscopy, and peptic ulcer disease [letter; comment] Rodney WM. **J Am Board Fam Pract** 1997 May–Jun;10(3):241–2. Comment on: J Am Board Fam Pract 1996 Sep–Oct;9(5):392.

Brush cytology: a reliable method to detect Helicobacter pylori. Dalla Libera M, et al. **J Clin Gastroenterol** 1996 Jun;22(4):317–21

Serum anti–Helicobacter pylori antibodies and gastritis. Yamamoto I, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S164–8

Fecal PCR assay for diagnosis of Helicobacter infection in laboratory rodents. Beckwith CS, et al. **J Clin Microbiol** 1997 Jun;35(6):1620–3

Serodiagnosis of Helicobacter pylori infection: comparison and correlation between enzyme–linked immunosorbent assay and rapid serological test results. Chen TS, et al. **J Clin Microbiol** 1997 Jan;35(1):184–6

Diagnosis of Helicobacter pylori infection in a colony of rhesus monkeys (Macaca mulatta). Handt LK, et al. **J Clin Microbiol** 1997 Jan;35(1):165–8

Serodiagnosis of Helicobacter hepaticus infection in mice by an enzyme–linked immunosorbent assay. Livingston RS, et al. **J Clin Microbiol** 1997 May;35(5):1236–8

Evaluation of Pyloriset Dry, a new rapid agglutination test for Helicobacter pylori antibody detection. Lozniewski A, et al. **J Clin Microbiol** 1996 Jul;34(7):1773–5

Immunoblot assay for serodiagnosis of Helicobacter pylori infections. Nilsson I, et al. **J Clin Microbiol** 1997 Feb; 35(2):427–32

Is the polymerase chain reaction or cure of Helicobacter pylori infection of help in the differential diagnosis of early gastric mucosa–associated lymphatic tissue lymphoma? Rudolph B, et al. **J Clin Oncol** 1997 Mar;15(3):1104–9

Comparison of diagnostic methods for detecting gastric Helicobacter–like organisms in dogs and cats. Happonen I, et al. **J Comp Pathol** 1996 Aug;115(2):117–27

Bacteremia caused by Helicobacter cinaedi in an AIDS patients. Hung CC, et al. **J Formos Med Assoc** 1997 Jul; 96(7):558–60

Serological tests for monitoring Helicobacter pylori eradication treatment. Hirschl AM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:33–6

Molecular typing of Helicobacter pylori: differences in pathogenicity among diverse strains. Ito A, et al. **J Gastroenterol** 1996 Feb;31(1):1–5

Detection of Helicobacter pylori DNA in gastric juice by the polymerase chain reaction: comparison with findings in bacterial culture and the detection of tissue IgA and serum IgG antibodies against Helicobacter pylori. Matsukura N, et al. **J Gastroenterol** 1995 Dec;30(6):689–95

Simple 13C–urea breath test with infra–red spectrophotometer. Taniguchi Y, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:37–40

Diagnosis of Helicobacter pylori infection. Azuma T, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):662–9 (65 ref.)

Clinical assessment of the bacterial load of Helicobacter pylori on gastric mucosa by a new multi–scaled rapid urease test. Chou CH, et al. **J Gastroenterol Hepatol** 1997 Jan; 12(1):1–6

Helicobacter pylori: bacteriology and laboratory diagnosis. Williams CL. **J Infect** 1997 Jan;34(1):1–5 (58 ref.)

Methodological validation and clinical usefulness of carbon–14–urea breath test for documentation of presence and eradication of Helicobacter pylori infection. Desroches JJ, et al. **J Nucl Med** 1997 Jul;38(7):1141–5

Carbon–14–urea breath test: a cautionary note [letter]

Warwick T. **J Nucl Med** 1996 Nov;37(11):1916

New approach to 13C–urea breath test: capsule–based modification with low–dose of 13C–urea in the diagnosis of Helicobacter pylori infection. Bielański W, et al. **J Physiol Pharmacol** 1996 Sep;47(3):545–53

From the Food and Drug Administration. Nightingale SL. **JAMA** 1996 Dec 4;276(21):1710

Helicobacter pylori infection [letter; comment] Harris A, et al. **Lancet** 1997 Mar 22;349(9055):879–80. Comment on: Lancet 1997 Jan 25;349(9047):265–9.

Helicobacter pylori infection [letter; comment] Numans ME, et al. **Lancet** 1997 Mar 22;349(9055):879. Comment on: Lancet 1997 Jan 25;349(9047):265–9.

14C–urea breath test: a useful non–invasive test in the diagnosis of Helicobacter pylori infection. Goh KL, et al. **Med J Malaysia** 1995 Sep;50(3):208–11

A prospective study of Helicobacter pylori nonulcer dyspepsia. Velanovich V. **Mil Med** 1996 Apr;161(4):197–9

Treatment of Helicobacter pylori infection [letter; comment] Monkemuller KE. **N Engl J Med** 1996 Dec 12; 335(24):1843–4. Comment on: N Engl J Med 1996 Jul 25;335(4):250.

Validation of a technique for the preparation of individual patient doses of 14C–urea. Clarkson A, et al. **Nucl Med Commun** 1997 Jan;18(1):57–9

Diagnostic and treatment guidelines for Helicobacter pylori. Fay M, et al. **Nurse Pract** 1996 Jul;21(7):28–30, 33–4, 38 (29 ref.)

Minimal chronic inactive gastritis: indicator of pre–existing helicobacter pylori gastritis? Oberhuber G, et al. **Pathol Res Pract** 1996 Oct;192(10):1016–21

Laboratory diagnosis of Helicobacter pylori infection by polymerase chain reaction. Ichikawa Y, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan;91(1):117–28

Assessment of the usefulness of endoscopic signs in Helicobacter pylori associated gastritis. Yela MC, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):3–12 **(Eng, Spa)**

13C–urea breath test in Helicobacter pylori diagnosis and eradication. Correlation to histology, origin of 'false' results, and influence of food intake. Epple HJ, et al. **Scand J Gastroenterol** 1997 Apr;32(4):308–14

A quantitative analysis of symptoms of non–ulcer dyspepsia as related to age, pathology, and Helicobacter infection. Lai ST, et al. **Scand J Gastroenterol** 1996 Nov; 31(11):1078–82

Gastric juice levels of lactoferrin and Helicobacter pylori infection. Nakao K, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):530–4

Evaluation of experimental therapeutics in a new mouse model of Helicobacter felis utilizing 16S rRNA polymerase chain reaction for detection. Smith JG, et al. **Scand J Gastroenterol** 1997 Apr;32(4):297–302

Usefulness of the 14C urea breath test as a semi–quantitative monitoring instrument after therapy for Helicobacter pylori infection. van de Wouw BA, et al. **Scand J Gastroenterol** 1997 Feb;32(2):112–7

Diagnosis of Helicobacter pylori infection. Review of diagnostic techniques and recommendations for their use in different clinical settings. de Boer WA. **Scand J Gastroenterol Suppl** 1997;223:35–42 (93 ref.)

Advantages and disadvantages of current diagnostic tests for the detection of Helicobacter pylori. Mégraud F. **Scand J Gastroenterol Suppl** 1996;215:57–62 (39 ref.)

Diagnosis of Helicobacter pylori infection. When to use which test and why. Rune SJ. **Scand J Gastroenterol Suppl** 1996;215:63–5

Diagnosis of Helicobacter pylori infection. Tytgat GN. **Scand J Gastroenterol Suppl** 1996;215:56

Helicobacter pylori–associated gastroduodenal disease in childhood. Blecker U. **South Med J** 1997 Jun;90(6):570–6; quiz 577 (75 ref.)

Immediate endoscopy or initial Helicobacter pylori serological testing for suspected peptic ulcer disease: estimating cost–effectiveness using decision analysis. Fendrick AM, et al. **Yale J Biol Med** 1996 Mar–Apr; 69(2):187–95

Molecular biology in diagnosis and epidemiology of Helicobacter pylori: PCR for the detection and AP–PCR for characterization of patient isolates. Schwarz E, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):368–78

[A comparison of purified urease antigen and whole cell antigen of Helicobacter pylori by ELISA test—study on the application and serum diagnoses of Helicobacter pylori urease diagnostic reagent] Chen JJ, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Feb; 17(1):44–6 (Eng. Abstr.) **(Chi)**

[Serodiagnosis of Helicobacter pylori infections by detection of immunoglobulin G antibodies with an immunoblot technique] Pan Z, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):9–11 (Eng. Abstr.) **(Chi)**

[Infection with Helicobacter pylori and its serologic detection] Havlasová J, et al. **Vnitr Lek** 1997 Feb; 43(2):111–4 (Eng. Abstr.) **(Cze)**

[Antigens in the serologic detection of Helicobacter pylori infection] Havlasová J, et al. **Vnitr Lek** 1997 Feb; 43(2):115–9 (Eng. Abstr.) **(Cze)**

[Helicobacter pylori. Which patients should be examined and treated?] Lauritsen K, et al. **Nord Med** 1997 Jun; 112(6):192–4 (Eng. Abstr.) **(Dan)**

[Current viewpoints on diagnosis and treatment of Helicobacter pylori infections] Veenendaal RA, et al. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2469–72 **(Dut)**

[Prevalence of Helicobacter pylori infection in Tananarive, Madagascar] Cassel–Béraud AM, et al. **Bull Soc Pathol Exot** 1997;90(1):6–9 (Eng. Abstr.) **(Fre)**

[Diagnosis and therapy of Helicobacter pylori infections in adults (letter; comment)] Bergmann WL. **Dtsch Med Wochenschr** 1997 Mar 14;122(11):348–9. Comment on: Dtsch Med Wochenschr 1996 Nov 1;121(44):1375–8. **(Ger)**

[Diagnosis and therapy of Helicobacter pylori infection in adults (see comments)] Caspary WF, et al. **Dtsch Med Wochenschr** 1996 Nov 1;121(44):1375–8. Comment in: Dtsch Med Wochenschr 1997 Mar 14;122(11):348–9. **(Ger)**

[Helicobacter pylori—talked about by both patients and physicians (editorial)] Caspary WF. **Dtsch Med Wochenschr** 1997 May 16;122(20):633–6 (19 ref.) **(Ger)**

[Detection of Helicobacter pylori in dermatoses. Clinical incidental finding or pathogenetic association?] Tebbe B, et al. **Hautarzt** 1996 Aug;47(8):587–90 (29 ref.) (Eng. Abstr.) **(Ger)**

[Diagnosis and therapy of Helicobacter pylori infection. Guidelines of the German Society of Digestive and Metabolic Diseases. Working Group of the German Society of Digestive and Metabolic Diseases] Caspary WF, et al. **Leber Magen Darm** 1996 Nov;26(6):301–4, 307–9 **(Ger)**

[Infections caused by Helicobacter pylori] Stock I, et al. **Med Monatsschr Pharm** 1997 Jan;20(1):2–8 (10 ref.) **(Ger)**

[Helicobacter pylori infection in childhood (editorial)] Rigillo N, et al. **Minerva Pediatr** 1996 Jan–Feb;48(1–2):1–9 (40 ref.) **(Ita)**

[The role of the laboratory in the diagnosis and monitoring of Helicobacter pylori infection (editorial)] Plebani M, et al. **Recenti Prog Med** 1996 Jun;87(6):280–4 (Eng. Abstr.) **(Ita)**

[Methodological study of 13C–urea breath test for detection of Helicobacter pylori infection] Ohara S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):530–6 (Eng. Abstr.) **(Jpn)**

[The contents of the stomach was full of 13CO2 gas in patients with Helicobacter pylori after oral administration of 13C–urea] Urita Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):229 **(Jpn)**

[A rapid Helicobacter test in general practice. A needed test or a textbook example of how to create health issues?] Claudi T, et al. **Tidsskr Nor Laegeforen** 1997 Feb 10; 117(4):560–1 **(Nor)**

[Helicobacter pylori infection—clinical consequences and management] Dzieniszewski J. **Pol Arch Med Wewn** 1997; 97 Spec No:13–22 (59 ref.) **(Pol)**

[Urease test, microbiologic tests, histologic and serologic tests for the evaluation of Helicobacter pylori infections in persons with peptic ulcer and gastritis] Jarczyk G, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):219–22 (Eng. Abstr.) **(Pol)**

[Progress in diagnosis of infections brought on by Helicobacter pylori] Chmiela M, et al. **Postepy Hig Med Dosw** 1997;51(1):75–93 (109 ref.) (Eng. Abstr.) **(Pol)**

[Clinical and morphological aspects of Helicobacter pylori invasion in reflux esophagitis] Galimov OV, et al. **Klin Khir** 1997;(1):17–8 (Eng. Abstr.) **(Rus)**

[Patient Helicobacter pylori infectivity after gastric resection] Potashov LV, et al. **Vestn Khir Im I I Grek** 1996; 155(6):17–20 (Eng. Abstr.) **(Rus)**

[The diagnosis of Helicobacter infections in patients with gastric and duodenal peptic ulcers] Potashov LV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov–Dec; (6):11–3 (Eng. Abstr.) **(Rus)**

[Diagnostic methods for the detection of Helicobacter pylori. Old and new techniques (editorial)] Corti RE, et al. **Acta Gastroenterol Latinoam** 1995;25(5):307–8 **(Spa)**

[Helicobacter pylori: comparative study of different diagnostic techniques] Fazzio S, et al. **Acta Gastroenterol Latinoam** 1995;25(5):269–76 (Eng. Abstr.) **(Spa)**

[Evaluation of methods for the diagnosis of Helicobacter pylori infection] Serrano N, et al. **G E N** 1995 Oct–Dec; 49(4):292–5 (Eng. Abstr.) **(Spa)**

[Breath test in the diagnosis of Helicobacter pylori infection: concordance with histological methods and correlation with anatomopathological lesions of the gastric mucosa] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Apr; 88(4):259–64 (Eng. Abstr.) **(Spa)**

[Comparative study of HELISAL T.M. RAPID BLOOD and ELISA, JATROX and pathologic anatomy in the diagnosis of Helicobacter pylori infection] Huelin J, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):825–7 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

"Modern therapies for Helicobacter pylori infection". Go MF. **Acta Gastroenterol Latinoam** 1996;26(2):119–23

Another therapeutic schedule in eradication of Helicobacter pylori. Včev A, et al. **Acta Med Croatica** 1997;51(2):95–9

Enhanced eradication of Helicobacter pylori by pre– versus post–prandial amoxycillin suspension with omeprazole: implications for antibiotic delivery. Atherton JC, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):631–5

Ranitidine bismuth citrate and clarithromycin twice daily in the eradication of Helicobacter pylori. Axon AT, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):81–7

Conference report: duodenal ulcer trials reported at the European Helicobacter pylori Study Group, Edinburgh 1995. Bell GD. **Aliment Pharmacol Ther** 1996 Feb; 10(1):49–54

Symptomatic and endoscopic duodenal ulcer relapse rates 12 months following Helicobacter pylori eradication treatment with omeprazole and amoxycillin with or without metronidazole. Bell GD, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):637–44

Helicobacter pylori eradication and its implications for the future. Blaser MJ. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:103–7 (26 ref.)

Successful low–dose amoxycillin, metronidazole and omeprazole combination therapy in a population with a high frequency of metronidazole–resistant Helicobacter pylori. Breuer T, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):523–7

Helicobacter pylori eradication using one–week low–dose lansoprazole plus amoxycillin and either clarithromycin or azithromycin. Cammarota G, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):997–1000

Only four days of quadruple therapy can effectively cure Helicobacter pylori infection. De Boer WA, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):633–8

One–day intensified lansoprazole–quadruple therapy for cure of Helicobacter pylori infection. de Boer WA, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):109–12

Cisapride in functional dyspepsia in general practice. A placebo–controlled, randomized, double–blind study. de Groot GH, et al. **Aliment Pharmacol Ther** 1997 Feb; 11(1):193–9

Omeprazole–amoxycillin versus omeprazole–amoxycillin–clarithromycin in the eradication of Helicobacter pylori. Delchier JC, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):263–8

Outcomes research in Helicobacter pylori infection. Fendrick AM. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:95–101 (19 ref.)

Helicobacter pylori eradication in clinical practice: one–week low–dose triple therapy is preferable to classical bismuth based triple therapy. Goddard AF, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1009–13

Lansoprazole, clarithromycin and metronidazole for seven days in Helicobacter pylori infection. Harris AW, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1005–8

Comparison of two low–dose one–week triple therapy regimens with and without metronidazole for cure of H. pylori infection. Jaup BH, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):275–7

Effects of lansoprazole plus amoxycillin on the cure of Helicobacter pylori infection in Japanese peptic ulcer patients. Kato M, et al. **Aliment Pharmacol Ther** 1996 Oct; 10(5):821–7

Comparison of ranitidine and lansoprazole in short–term low–dose triple therapy for Helicobacter pylori infection. Kihira K, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):511–4

Doubling the omeprazole dose (40 mg b.d. vs. 20 mg b.d.) in dual therapy with amoxycillin increases the cure rate of Helicobacter pylori infection in duodenal ulcer patients. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):515–22

One–week low–dose triple therapy for Helicobacter pylori is sufficient for relief from symptoms and healing of duodenal ulcers. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):89–93

Efficacy and tolerability of a one–week triple therapy consisting of pantoprazole, clarithromycin and amoxycillin for cure of Helicobacter pylori infection in patients with duodenal ulcer. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):95–100

Review article: symptom improvement through eradication of Helicobacter pylori in patients with non–ulcer dyspepsia. Laheij RJ, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):843–50 (89 ref.)

Long–term follow–up after cure of Helicobacter pylori infection with 4 days of quadruple therapy. Lai JY, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):645–50

Randomized comparison of differing periods of twice–a–day triple therapy for the eradication of Helicobacter pylori. Laine L, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):1029–33

Prospective evaluation of the macrolide antibiotic dirithromycin for the treatment of Helicobacter pylori. Laine L, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):269–73

The actions of bismuth in the treatment of Helicobacter pylori infection. Lambert JR, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:27–33 (62 ref.)

Helicobacter pylori serology and the management of young dyspeptics: a UK survey of gastroenterologists and general practitioners with an interest in gastroenterology. Lim AG, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):299–303

Helicobacter pylori eradication using a 7–day regimen of low–dose clarithromycin, lansoprazole and amoxycillin. Lim AG, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):537–40

The long–term management of patients with bleeding duodenal ulcers. McAlindon ME, et al.

Aliment Pharmacol Ther 1997 Jun;11(3):505–10

High-dose proton pump inhibitor plus amoxycillin for the treatment or retreatment of Helicobacter pylori infection. Malaty H, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):1001–4

The future of Helicobacter pylori eradication: a personal perspective. Marshall BJ. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:109–15 (30 ref.)

Resistance of Helicobacter pylori to antibiotics. Mégraud F. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:43–53 (39 ref.)

An increasing dose of omeprazole combined with amoxycillin cures Helicobacter pylori infection more effectively. Miehlke S, et al. **Aliment Pharmacol Ther** 1997 Apr; 11(2):323–9

One week triple therapy with omeprazole, clarithromycin and tinidazole for Helicobacter pylori: differing efficacy in previously treated and untreated patients. Moshkowitz M, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1015–9

Review article: clinical aspects of Helicobacter pylori eradication therapy in peptic ulcer disease. Penston JG. **Aliment Pharmacol Ther** 1996 Aug;10(4):469–86 (200 ref.)

The role of antisecretory drugs in the treatment of Helicobacter pylori infection. Peterson WL. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:21–5 (36 ref.)

Ranitidine bismuth citrate plus clarithromycin is effective for healing duodenal ulcers, eradicating H. pylori and reducing ulcer recurrence. RBC H. pylori Study Group [see comments] Peterson WL, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):251–61. Comment in: Aliment Pharmacol Ther 1996 Dec;10(6):1035.

Dose-response of omeprazole combined with amoxycillin on duodenal ulcer healing and eradication of Helicobacter pylori. Pommerien W, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):303–8

The treatment of Helicobacter pylori infection. Pounder RE, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:35–41 (35 ref.)

Furazolidone, amoxycillin, bismuth triple therapy for Helicobacter pylori infection. Segura AM, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):529–32

Omeprazole versus ranitidine: short-term triple-therapy in patients with Helicobacter pylori-positive duodenal ulcers. Spadaccini A, et al. **Aliment Pharmacol Ther** 1996 Oct; 10(5):829–31

Randomized study comparing omeprazole plus amoxycillin versus omeprazole plus clarithromycin for eradication of Helicobacter pylori. Spinzi G, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):317–22

Immediate repeat course of amoxycillin, metronidazole and omeprazole to eradicate Helicobacter pylori. Ström M, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):311–6

One-week triple therapy with omeprazole, amoxycillin and tinidazole for Helicobacter pylori infection: the significance of imidazole resistance. Thijs JC, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):305–9

Low-dose omeprazole plus clarithromycin and either tinidazole or amoxycillin for Helicobacter pylori infection. Tursi A, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):285–8

Low cure rate of Helicobacter pylori infection with omeprazole and furazolidone dual therapy for one week. Van Zwet AA, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):533–5

A one-week quadruple eradication regimen for Helicobacter pylori in routine clinical practice. Vautier G, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):107–8

A seven-day Helicobacter pylori treatment regimen using clarithromycin, omeprazole and tripotassium dicitrato bismuthate. Weldon MJ, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):279–83

The safety and efficacy of ranitidine bismuth citrate in combination with antibiotics for the eradication of Helicobacter pylori. Wyeth JW, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):623–30

One-week triple therapy with omeprazole, amoxycillin and clarithromycin for treatment of Helicobacter pylori infection. Yousfi MM, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):617–21

Metronidazole, ranitidine and clarithromycin combination for treatment of Helicobacter pylori infection (modified Bazzoli's triple therapy). Yousfi MM, et al. **Aliment Pharmacol Ther** 1996 Feb;10(1):119–22

Treatment strategies for Helicobacter pylori infection. Damianos AJ, et al. **Am Fam Physician** 1997 Jun; 55(8):2765–74, 2784–6 (34 ref.)

Relevance of the ferret model of Helicobacter-induced gastritis to evaluation of antibacterial therapies. Alder JD, et al. **Am J Gastroenterol** 1996 Nov;91(11):2347–54

Does pretreatment with omeprazole decrease the chance of eradication of Helicobacter pylori in peptic ulcer patients? Annibale B, et al. **Am J Gastroenterol** 1997 May;92(5):790–4

Bismuth subsalicylate instead of metronidazole with lansoprazole and clarithromycin for Helicobacter pylori infection: a randomized trial. Chey WD, et al. **Am J Gastroenterol** 1997 Sep;92(9):1483–6

Omeprazole and clarithromycin with and without metronidazole for the eradication of Helicobacter pylori. Chiba N. **Am J Gastroenterol** 1996 Oct;91(10):2139–43

Diagnose and treat Helicobacter pylori as any other infectious disease [letter; comment] de Boer WA, et al. **Am J Gastroenterol** 1996 Oct;91(10):2255–6. Comment on: Am J Gastroenterol 1996 Feb;91(2):188–90. Comment on: Am J Gastroenterol 1996 Feb;91(2):228–32.

Re: short-term treatment with lansoprazole [letter; comment] Dhar A, et al. **Am J Gastroenterol** 1996 Oct;91(10):2251. Comment on: Am J Gastroenterol 1995 Oct;90(10):1824–8.

Effective 2-wk therapy for Helicobacter pylori disease in children. Dohil R, et al. **Am J Gastroenterol** 1997 Feb; 92(2):244–7

Percentage changes in serum pepsinogens are useful as indices of eradication of Helicobacter pylori. Furuta T, et al. **Am J Gastroenterol** 1997 Jan;92(1):84–8

Helicobacter pylori does not migrate from the antrum to the corpus in response to omeprazole [see comments] Graham DY, et al. **Am J Gastroenterol** 1996 Oct;91(10):2120–4. Comment in: Am J Gastroenterol 1997 Apr;92(4):720–1.

Eradication of H. pylori in a developing country: comparison of lansoprazole versus omeprazole with norfloxacin, in a dual-therapy study. Gupta VK, et al. **Am J Gastroenterol** 1997 Jul;92(7):1140–2

Peptic ulcer disease: defining the treatment strategies in the era of Helicobacter pylori. Hunt RH. **Am J Gastroenterol** 1997 Apr;92(4 Suppl):36S–40S; discussion 40S–43S (56 ref.)

Testing for Helicobacter pylori infection after antibiotic treatment [editorial; comment] Katelaris PH, et al. **Am J Gastroenterol** 1997 Aug;92(8):1245–7. Comment on: Am J Gastroenterol 1997 Aug;92(8):1268–74.

Anti-Helicobacter pylori treatment in bleeding ulcers: randomized controlled trial comparing 2-day versus 7-day bismuth quadruple therapy. Kung NN, et al. **Am J Gastroenterol** 1997 Mar;92(3):438–41

Efficacy of omeprazole one year after cure of Helicobacter pylori infection in duodenal ulcer patients [see comments] Labenz J, et al. **Am J Gastroenterol** 1997 Apr;92(4):576–81 . Comment in: Am J Gastroenterol 1997 Apr;92(4):555–6.

Triple therapy with ranitidine or lansoprazole in the treatment of Helicobacter pylori-associated duodenal ulcer. Lazzaroni M, et al. **Am J Gastroenterol** 1997 Apr; 92(4):649–52

A comparison between omeprazole-based triple therapy and bismuth-based triple therapy for the treatment of Helicobacter pylori infection: a prospective randomized 1-yr follow-up study. Lerang F, et al. **Am J Gastroenterol** 1997 Apr;92(4):653–8

Highly effective twice-daily triple therapies for Helicobacter pylori infection and peptic ulcer disease: does in vitro metronidazole resistance have any clinical relevance? Lerang F, et al. **Am J Gastroenterol** 1997 Feb;92(2):248–53

Accuracy of invasive and noninvasive tests to diagnose Helicobacter pylori infection after antibiotic treatment [see comments] Rollán A, et al. **Am J Gastroenterol** 1997 Aug; 92(8):1268–74. Comment in: Am J Gastroenterol 1997 Aug;92(8):1245–7.

Acid secretion, response to omeprazole, and Helicobacter pylori status [editorial; comment] Treiber G, et al. **Am J Gastroenterol** 1997 Apr;92(4):555–6. Comment on: Am J Gastroenterol 1997 Apr;92(4):576–81.

Therapeutic options after failed Helicobacter pylori eradication therapy. van der Hulst RW, et al. **Am J Gastroenterol** 1996 Nov;91(11):2333–7

H. pylori treatment recognized by FDA [news] **Am J Health Syst Pharm** 1996 Jun 1;53(11):1229

Two products released for H. pylori treatment [news] **Am J Health Syst Pharm** 1996 Nov 1;53(21):2556

Six months' experience with a pharmacist-run Helicobacter pylori treatment clinic. Patchin GM, et al. **Am J Health Syst Pharm** 1996 Sep 1;53(17):2081–2

Eradication of Helicobacter pylori in patients with end-stage renal disease under dialysis treatment. Tamura H, et al. **Am J Kidney Dis** 1997 Jan;29(1):86–90

Long-term quality of life outcome after treatment for Helicobacter pylori gastric infection. Velanovich V. **Am Surg** 1997 Jun;63(6):551–4

Management strategies for Helicobacter pylori-seropositive patients with dyspepsia: clinical and economic consequences [see comments] Ofman JJ, et al. **Ann Intern Med** 1997 Feb 15;126(4):280–91 (69 ref.). Comment in: Ann Intern Med 1997 Feb 15;126(4):315–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):244.

Helicobacter pylori: when to test, when to treat [editorial; comment] Rabeneck L, et al. **Ann Intern Med** 1997 Feb 15;126(4):315–6. Comment on: Ann Intern Med 1997 Feb 15;126(4):280–91.

Management of Helicobacter pylori-positive patients with dyspepsia [letter; comment] Schwartz DN. **Ann Intern Med** 1997 Aug 1;127(3):244. Comment on: Ann Intern Med 1997 Feb 15;126(4):280–91.

Regression of gastric lymphoma with therapy for Helicobacter pylori infection [letter] Seymour JF, et al. **Ann Intern Med** 1997 Aug 1;127(3):247

Clarithromycin-induced fever in a patient with Helicobacter pylori gastritis [letter] Kadayifçi A, et al. **Ann Pharmacother** 1997 Jun;31(6):788

Use of PCR and culture to detect Helicobacter pylori in naturally infected cats following triple antimicrobial therapy. Perkins SE, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1486–90

Eradication of Helicobacter pylori as the only successful treatment in rosacea [letter] Kolibášová K, et al. **Arch Dermatol** 1996 Nov;132(11):1393

One week treatment for Helicobacter pylori infection. Walsh D, et al. **Arch Dis Child** 1997 Apr;76(4):352–5

Diagnosis and treatment of Helicobacter pylori infection among California Medicare patients. Roll J, et al. **Arch Intern Med** 1997 May 12;157(9):994–8

Pharmacoeconomic comparison of treatments for the eradication of Helicobacter pylori [see comments] Taylor JL, et al. **Arch Intern Med** 1997 Jan 13;157(1):87–97. Comment in: ACP J Club 1997 Jul-Aug;127(1):22.

Efficacy of ebrotidine and ranitidine combined with amoxicillin and metronidazole in the eradication of Helicobacter pylori in patients with duodenal ulcer. Popiela T, et al. **Arzneimittelforschung** 1997 Apr;47(4A):573–7

Omeprazole, amoxicillin and bismuth for peptic ulcer healing and Helicobacter pylori eradication. Treiber G, et al. **Arzneimittelforschung** 1997 Jan;47(1):47–50

Peptic disease: can we afford current management? Fletcher DR. **Aust N Z J Surg** 1997 Feb-Mar;67(2-3):75–80 (39 ref.)

Treatment of Helicobacter pylori infection. Reed PI, et al. **Biomed Pharmacother** 1997;51(1):13–21 (68 ref.)

Randomised double blind controlled study of recurrence of gastric ulcer after treatment for eradication of Helicobacter pylori infection. Axon AT, et al. **BMJ** 1997 Feb 22; 314(7080):565–8

Eradication of Helicobacter pylori: an objective assessment of current therapies. Penston JG, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):223–43 (376 ref.)

Lansoprazole plus clarithromycin: evaluation of a new dual therapy for Helicobacter pylori eradication. Phull PS, et al. **Br J Clin Pract** 1996 Oct-Nov;50(7):360–2

Examining the value of eradication therapy for H. pylori [letter; comment] Delaney B, et al. **Br J Gen Pract** 1996 Aug;46(409):491–2. Comment on: Br J Gen Pract 1996 Mar;46(404):177–9.

A pilot study of a randomized controlled trial of pragmatic eradication of Helicobactor pylori in primary care. Hippisley-Cox J, et al. **Br J Gen Pract** 1997 Jun; 47(419):375–7

Helicobacter pylori eradication [letter] Wilcock M. **Br J Gen Pract** 1997 Aug;47(421):529

Which proton pump inhibitor should we use? Williams CN. **Can J Gastroenterol** 1997 Jan-Feb;11(1):29

Helicobacter pylori: new developments and treatments. Veldhuyzen van Zanten SJ, et al. **Can Med Assoc J** 1997 Jun 1;156(11):1565–74 (112 ref.)

Effect of Helicobacter pylori eradication on subsequent development of cancer after endoscopic resection of early gastric cancer. Uemura N, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):639–42

Clarithromycin in the combination therapy for the eradication of Helicobacter pylori in peptic ulcer disease. Lo WC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar;59(3):171–6

Current treatment of Helicobacter pylori infection and peptic ulcer disease. Cleghorn G. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 May-Jun;38(3):178–82

H pylori 1997: testing and treatment options. Falk GW. **Cleve Clin J Med** 1997 Apr;64(4):187–92 (19 ref.)

Pathogenesis and treatment of acid peptic disorders: comparison of proton pump inhibitors with other antiulcer agents. Sanders SW. **Clin Ther** 1996 Jan-Feb;18(1):2–34; discussion 1 (178 ref.)

Urticaria during triple therapy for Helicobacter pylori infection: clinical implications. Delpre G, et al. **Dig Dis Sci** 1997 Apr;42(4):728–30

Clinical application of gastric histology to monitor treatment of dual therapy in H. pylori eradication. Yang HB, et al. **Dig Dis Sci** 1997 Sep;42(9):1835–40

Gastritis and Helicobacter pylori: forty years of antibiotic therapy. Lieber CS. **Digestion** 1997;58(3):203–10 (62 ref.)

A risk-benefit assessment of drugs used in the eradication of Helicobacter pylori infection. Hackelsberger A, et al. **Drug Saf** 1996 Jul;15(1):30–52 (277 ref.)

Pylorid, H. pylori and peptic ulcer. **Drug Ther Bull** 1996 Sep;34(9):69–70

Clarithromycin and omeprazole as helicobacter pylori eradication therapy in patients with H. pylori-associated gastric disorders. Markham A, et al. **Drugs** 1996 Jan; 51(1):161–78 (67 ref.)

Treatment of peptic ulcer in the elderly. Proton pump inhibitors and histamine H2 receptor antagonists. Lazzaroni M, et al. **Drugs Aging** 1996 Oct;9(4):251–61 (72 ref.)

Rapid increase in the prevalence of metronidazole-resistant Helicobacter pylori in the Netherlands. van der Wouden EJ, et al. **Emerg Infect Dis** 1997 Jul-Sep;3(3):385–9

Reflux esophagitis: a complication of Helicobacter pylori eradication therapy? [letter] Saccà N, et al. **Endoscopy** 1997 Mar;29(3):224

Sensitivity of Helicobacter pylori to metronidazole. Bateson MC, et al. **Eur J Cancer Prev** 1997 Jun;6(3):300–2

In vitro activity of omeprazole in combination with several antimicrobial agents against clinical isolates of Helicobacter pylori. Alarcón T, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec;15(12):937–40

Triple therapy as a cure for Helicobacter pylori infection. Bardhan KD. **Eur J Gastroenterol Hepatol** 1996 Oct;8 Suppl 1:S27–30 (36 ref.)

Cure of gastric ulcer disease after cure of Helicobacter pylori infection—German Gastric Ulcer Study [see comments] Bayerdörffer E, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):343–9. Comment in: Eur J Gastroenterol Hepatol 1996 Apr;8(4):333–4.

Helicobacter pylori eradication--a surrogate marker for

duodenal ulcer healing [comment] Buckley M, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):415–6. Comment on: Eur J Gastroenterol Hepatol 1996 May;8(5):421–3.

Short-term low-dose triple therapy with azithromycin, metronidazole and lansoprazole appears highly effective for the eradication of Helicobacter pylori. Caselli M, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):45–8

Quadruple therapy compared with dual therapy for eradication of Helicobacter pylori in ulcer patients: results of a randomized prospective single-centre study [see comments] de Boer WA, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1189–94. Comment in: ACP J Club 1996 May-Jun;124(3):64–5.

How to treat Helicobacter pylori infection—should treatment strategies be based on testing bacterial susceptibility? A personal viewpoint. de Boer WA, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):709–16 (59 ref.)

Proposal for use of a standard side effect scoring system in studies exploring Helicobacter pylori treatment regimens. de Boer WA, et al. **Eur J Gastroenterol Hepatol** 1996 Jul; 8(7):641–3

Economics of Helicobacter pylori eradication therapy. Deltenre MA. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S23–6; discussion S27–9 (22 ref.)

Ranitidine in a twice daily triple-therapy regimen for the eradication of Helicobacter pylori [see comments] Drake IM, et al. **Eur J Gastroenterol Hepatol** 1996 Dec; 8(12):1169–73. Comment in: Eur J Gastroenterol Hepatol 1997 May;9(5):544.

Eradication of Helicobacter pylori in peptic ulcer disease with amoxycillin, 2.0 g, and omeprazole, 80 or 120 mg: a prospective randomized trial. Fleischmann R, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):593–8

Helicobacter pylori eradication with short-term therapy leads to duodenal ulcer healing without the need for continued acid suppression therapy [see comments] Goh KL, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):421–3 . Comment in: Eur J Gastroenterol Hepatol 1996 May;8(5):415–6.

Update on Helicobacter pylori research. Eradication. Graham DY, et al. **Eur J Gastroenterol Hepatol** 1997 Jun; 9(6):626–8

Ranitidine in a twice daily triple therapy regimen for the eradication of Helicobacter pylori [letter; comment] Harris A. **Eur J Gastroenterol Hepatol** 1997 May;9(5):544. Comment on: Eur J Gastroenterol Hepatol 1996 Dec;8(12):1169–73.

Helicobacter pylori reinfection is rare in peptic ulcer patients cured by antimicrobial therapy. Miehlke S, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1161–3

Management of Helicobacter pylori-related disorders. Misiewicz JJ. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S17–20; discussion S20–1, S27–9 (12 ref.)

Clarithromycin or amoxycillin plus high-dose ranitidine in the treatment of Helicobacter pylori-positive functional dyspepsia. Schütze K, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):41–6

Reflections on gastric ulcer disease [comment] Tytgat GN. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):333–4. Comment on: Eur J Gastroenterol Hepatol 1996 Apr;8(4):343–9.

Resolution of protein-losing hypertrophic gastropathy by eradication of Helicobacter pylori. Yamada M, et al. **Eur J Pediatr** 1997 Mar;156(3):182–5

Effect of Helicobacter pylori eradication therapy on dyspeptic symptoms in primary care. Hobbs FD, et al. **Fam Pract** 1996 Jun;13(3):225–8

Curing Helicobacter pylori infection in patients with duodenal ulcer may provoke reflux esophagitis. Labenz J, et al. **Gastroenterology** 1997 May;112(5):1442–7

Should we treat H. pylori infection to prevent gastric cancer? Parsonnet J, et al. **Gastroenterology** 1997 Mar;112(3):1044–5

Regression of gastric MALT lymphoma after eradication of Helicobacter pylori is predicted by endosonographic staging. MALT Lymphoma Study Group. Sackmann M, et al. **Gastroenterology** 1997 Oct;113(4):1087–90

Helicobacter pylori: a vanishing problem? [editorial] Tytgat GN. **Gastroenterology** 1997 May;112(5):1435

Effect of Helicobacter pylori eradication on gastritis in relation to cagA: a prospective 1-year follow-up study. van der Hulst RW, et al. **Gastroenterology** 1997 Jul; 113(1):25–30

Bacterial density of Helicobacter pylori predicts the success of triple therapy in bleeding duodenal ulcer. Sheu BS, et al. **Gastrointest Endosc** 1996 Dec;44(6):683–8

Eradication of Helicobacter pylori as the first step in the treatment of peptic stenosis [letter; comment] Tursi A, et al. **Gastrointest Endosc** 1996 Dec;44(6):757. Comment on: Gastrointest Endosc 1996 Feb;43(2 Pt 1):98–101.

Current European concepts in the management of Helicobacter pylori infection. The Maastricht Consensus Report. European Helicobacter Pylori Study Group. **Gut** 1997 Jul;41(1):8–13 (50 ref.)

Ranitidine bismuth citrate with clarithromycin for the treatment of duodenal ulcer. Bardhan KD, et al. **Gut** 1997 Aug;41(2):181–6

Role of Helicobacter pylori in ulcer healing and recurrence of gastric and duodenal ulcers in longterm NSAID users. Response to omeprazole dual therapy [see comments] Bianchi Porro G, et al. **Gut** 1996 Jul;39(1):22–6. Comment in: Gut 1997 Apr;40(4):560–1.

Helicobacter pylori and ulcer healing [letter; comment] Dowling D. **Gut** 1997 Apr;40(4):560–1. Comment on: Gut 1996 Jul;39(1):22–6.

Treatment of Helicobacter pylori infection favourably affects gastric mucosal superoxide dismutases. Götz JM, et al. **Gut** 1997 May;40(5):591–6

Treating Helicobacter pylori—the best is yet to come? Harris A, et al. **Gut** 1996 Dec;39(96):781–3

Inhibiting acid and Helicobacter pylori? [comment] Healey Z, et al. **Gut** 1997 Jul;41(1):125–6. Comment on: Gut 1997 Jul;41(1):33–6.

Effect of curing Helicobacter pylori infection on intragastric acidity during treatment with ranitidine in patients with duodenal ulcer [see comments] Labenz J, et al. **Gut** 1997 Jul;41(1):33–6. Comment in: Gut 1997 Jul;41(1):125–6.

Does treatment of Helicobacter pylori with antibiotics alone heal duodenal ulcer? A randomised double blind placebo controlled study [seecomments] Lam SK, et al. **Gut** 1997 Jul;41(1):43–8

Treating Helicobacter pylori induced ulcers with antibiotics alone [comment] Lambert J. **Gut** 1997 Jul;41(1):129–30. Comment on: Gut 1997 Jul;41(1):43–8.

Follow-up on 242 patients with peptic ulcer disease one year after eradication of Helicobacter pylori infection. Berstad A, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):655–9

Pantoprazole-based dual and triple therapy for the eradication of Helicobacter pylori infection: a randomized controlled trial. Svoboda P, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):886–90

One-week low-dose triple therapy vs. two-week medium-dose double therapy for H.pylori infection. Tursi A, et al. **Hepatogastroenterology** 1996 Jul-Aug; 43(10):859–62

Triple-drug therapy of Helicobacter pylori infection in duodenal ulcer disease. Dayal VM, et al. **Indian J Gastroenterol** 1997 Apr;16(2):46–8

Helicobacter pylori eradication—evaluation of triple therapy containing omeprazole. Goenka MK, et al. **Indian J Gastroenterol** 1996 Jan;15(1):1–3

Healing of chronic antral gastritis: effect of sucralfate and colloidal bismuth subcitrate. Kumar M, et al. **Indian J Gastroenterol** 1996 Jul;15(3):90–3

Helicobacter pylori eradication—comparison of three drug regimens and symptomatic assessment in duodenitis and antral gastritis. Tan WC, et al. **Int J Clin Pract** 1997 Jun; 51(4):214–6

Eradication of Helicobacter pylori: the results of a pilot study of 3, 5 & 7 day triple antibiotic regime with bismuth for one month. O'Connor HJ, et al. **Ir J Med Sci** 1997 Jan–Mar; 166(1):32–4

European Consensus Guidelines identify acid pump inhibitor based triple therapy as today's treatment of choice for H. pylori eradication [news] **Ir Med J** 1996 Nov–Dec; 89(6):214

The value of anti-Helicobacter pylori IgG antibodies in establishing eradication of infection in children. Fradkin A, et al. **Isr J Med Sci** 1997 Feb;33(2):87–92

Reinfection or recrudescence after apparently successful eradication of Helicobacter pylori infection: can the type of gastritis solve the problem? Bruno M, et al. **Ital J Gastroenterol** 1996 May;28(4):216–9

Helicobacter pylori gastritis and non-ulcer dyspepsia in childhood. Efficacy of one-week triple antimicrobial therapy in eradicating the organism. Cucchiara S, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):430–5

The stability of amoxycillin, clarithromycin and metronidazole in gastric juice: relevance to the treatment of Helicobacter pylori infection. Erah PO, et al. **J Antimicrob Chemother** 1997 Jan;39(1):5–12

In-vitro and in-vivo antibacterial activity of plaunotol, a cytoprotective antiulcer agent, against Helicobacter pylori. Koga T, et al. **J Antimicrob Chemother** 1996 May; 37(5):919–29

One week treatment for Helicobacter pylori infection: a randomised study of quadruple therapy versus triple therapy. Phull PS, et al. **J Antimicrob Chemother** 1995 Dec; 36(6):1085–8

Effects of omeprazole and amoxycillin on the human oral and gastrointestinal microflora in patients with Helicobacter pylori infection. Stark CA, et al. **J Antimicrob Chemother** 1996 Dec;38(6):927–39

What is the best azithromycin-based therapy for Helicobacter pylori infection? [letter; comment] Tursi A, et al. **J Antimicrob Chemother** 1997 Jan;39(1):111. Comment on: J Antimicrob Chemother 1996 Apr;37(4):849–50.

Clarithromycin resistance in Helicobacter pylori: prevalence in untreated dyspeptic patients and stability in vitro. Xia HX, et al. **J Antimicrob Chemother** 1996 Mar;37(3):473–81

Comparison of colloidal bismuth subcitrate and metronidazole, both in combination with an H2-antagonist as therapy for Helicobacter pylori. Baffone W, et al. **J Chemother** 1997 Jun;9(3):208–12

How to achieve a near 100% cure rate for H. pylori infection in peptic ulcer patients. A personal viewpoint. de Boer WA. **J Clin Gastroenterol** 1996 Jun;22(4):313–6 (28 ref.)

Managing acid peptic disease in the Helicobacter pylori era. Marshall BJ. **J Clin Gastroenterol** 1995;21 Suppl 1:S155–9 (14 ref.)

Duodenal stenosis may not regress after eradication of Helicobacter pylori. Rinaldi V, et al. **J Clin Gastroenterol** 1997 Jun;24(4):288–9

One-week therapy for Helicobacter pylori. A randomized trial of two treatment regimens. Scheiman JM, et al. **J Clin Gastroenterol** 1996 Oct;23(3):170–3

Helicobacter pylori eradication helps resolve pyloric and duodenal stenosis. Tursi A, et al. **J Clin Gastroenterol** 1996 Sep;23(2):157–8

Resolution of a metaplastic duodenal polyp after cure of Helicobacter pylori infection. Yousfi MM, et al. **J Clin Gastroenterol** 1996 Jul;23(1):53–4

Insulin-like growth factor-I in Helicobacter pylori gastritis and response to eradication using bismuth based triple therapy. Taha AS, et al. **J Clin Pathol** 1996 Aug;49(8):676–8

Eradication of helicobacter pylori among patients from a primary care practice. Gomollón F, et al. **J Fam Pract** 1996 Dec;43(6):551–5

Sofalcone for treatment of Helicobacter pylori infection. Fujioka T, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:56–8

Amoxicillin for the treatment of Helicobacter pylori infection. Hirschl AM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:44–7

Serological tests for monitoring Helicobacter pylori eradication treatment. Hirschl AM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:33–6

Effect of lansoprazole in mono-, dual-, or triple therapy on Helicobacter pylori eradication. Kawano S, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:41–3

Endoscopic topical therapy for the treatment of Helicobacter pylori infection. Kihira K, et al. **J Gastroenterol** 1996 Nov; 31 Suppl 9:66–8

Patient factors that predict failure of omeprazole, clarithromycin, and tinidazole to eradicate Helicobacter pylori. Moayyedi P, et al. **J Gastroenterol** 1997 Feb; 32(1):24–7

Significant increase in eradication rates of Helicobacter pylori infection with two consecutive dual therapies (omeprazole and amoxycillin or omeprazole and clarithromycin). A randomized study in 450 Spanish patients. Moreno JA, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:48–52

Atopic dermatitis successfully treated by eradication of Helicobacter pylori. Murakami K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:77–82

Efficacy of clarithromycin in eradicating Helicobacter pylori. Satoh K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:53–5 (34 ref.)

Ecabet sodium eradicates Helicobacter pylori infection in gastric ulcer patients. Shimoyama T, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:59–62

Regression of atypical lymphoid hyperplasia after eradication of Helicobacter pylori. Tanahashi T, et al. **J Gastroenterol** 1997 Aug;32(4):543–7

Sucralfate and Helicobacter pylori. Terano A, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:63–5 (10 ref.)

Eradication of Helicobacter pylori followed by reinfection. Tonokatsu Y, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:75–6

Lansoprazole and amoxycillin: observations on the treatment of Helicobacter pylori infection. Hazell SL, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):93–9

Review: eradication of Helicobacter pylori. Problems and recommendations. Huang JQ, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):590–8 (78 ref.)

Anti-Helicobacter pylori agents. 1. 2-(Alkylguanidino)-4-furylthiazoles and related compounds. Katsura Y, et al. **J Med Chem** 1997 Aug 1; 40(16):2462–5

Cure of Helicobacter pylori infection and duration of remission of low-grade gastric mucosa-associated lymphoid tissue lymphoma [see comments] Neubauer A, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1350–5. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1328–30.

Hormonal, secretory and morphological alterations in gastric mucosa in the course of Helicobacter pylori eradication in patients with duodenal ulcer and non-ulcer dyspepsia. Bobrzyński A. **J Physiol Pharmacol** 1997 Jun;48 Suppl 3:1–56 (198 ref.)

Upper gastro-intestinal disease in Scotland: a survey of practice amongst Scottish gastroenterologists. Kubba AK, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):302–6

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Fennerty MB. **JAMA** 1996 Oct 9; 276(14):1135; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Olson CA. **JAMA** 1996 Oct 9; 276(14):1135–6; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Webb DD. **JAMA** 1996 Oct 9; 276(14):1136; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Triple therapy in duodenal ulcer healing—a follow up study. Qureshi H, et al. **JPMA J Pak Med Assoc** 1996 Sep; 46(9):194–5

Helicobacter pylori infection and serum pepsinogen I concentration in peptic ulcer patients: effect of bacterial eradication. Park SM, et al. **Korean J Intern Med** 1996 Jan;11(1):1–8

Regression of immunoproliferative small intestinal disease after eradication of Helicobacter pylori. Fischbach W, et al. **Lancet** 1997 Jan 4;349(9044):31–2

Healing of duodenal ulcer after eradication of Helicobacter heilmannii [letter] Goddard AF, et al. **Lancet** 1997 Jun 21;

349(9068):1815–6
Helicobacter pylori infection [letter; comment] Larson JT, et al. **Lancet** 1997 Mar 22;349(9055):878–9. Comment on: Lancet 1997 Jan 25;349(9047):265–9.
Regression of mucosa-associated lymphoid-tissue lymphoma of rectum after eradication of Helicobacter pylori [letter] Matsumoto T, et al. **Lancet** 1997 Jul 12;350(9071):115–6
Regression of MALT lymphoma and treatment for Helicobacter pylori [letter; comment] Walt RP. **Lancet** 1996 Oct 12;348(9033):1041–2. Comment on: Lancet 1996 Jul 27;348(9022):268–9.
Regression of mucosa-associated lymphoid-tissue lymphoma after eradication of Helicobacter pylori [letter] Wright DH. **Lancet** 1997 Sep 27;350(9082):960–1
Specialist and generalist physicians' adoption of antibiotic therapy to eradicate Helicobacter pylori infection. Hirth RA, et al. **Med Care** 1996 Dec;34(12):1199–204
Susceptibility of Helicobacter pylori isolates against agents commonly administered for eradication therapy and the efficacy of chemotherapy. Gotoh A, et al. **Microbiol Immunol** 1997;41(1):7–12
Identification and eradication of Helicobacter pylori in an isolated patient population. Myers D. **Mil Med** 1997 Jul; 162(7):507–9
A pitfall in assessing gastric lymphoma after eradication of Helicobacter pylori [letter] Fischbach W, et al. **N Engl J Med** 1997 May 22;336(21):1529–30
Effect of eradication of Helicobacter pylori in patients with fundic atrophic gastritis [letter] Tucci A, et al. **N Engl J Med** 1997 Mar 27;336(13):957–8
Diagnostic and treatment guidelines for Helicobacter pylori. Fay M, et al. **Nurse Pract** 1996 Jul;21(7):28–30, 33–4, 38 (29 ref.)
A twelve-month follow-up after Helicobacter pylori eradication. A clinical and histological evaluation. Bruno M, et al. **Panminerva Med** 1996 Sep;38(3):139–44
Evaluation of the efficacy and tolerability of four different therapeutic regimens for the Helicobacter pylori eradication. Tursi A, et al. **Panminerva Med** 1996 Sep; 38(3):145–9
Treatment of Helicobacter pylori infection: a review. Blecker U, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):391–9 (105 ref.)
Future indications for macrolides. Tarlow MJ, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):457–62 (27 ref.)
Short-term eradication therapy for Helicobacter pylori does not reduce the incidence of gastric metaplasia in duodenal ulcer patients. Rudnicka L, et al. **Pol J Pathol** 1997; 48(2):103–6
Helicobacter pylori infection. The importance of eradication in patients with gastric disease. Bonagura AF, et al. **Postgrad Med** 1996 Nov;100(5):115–6, 119–20, 123–4 passim (13 ref.)
Regression of a large gastric MALT lymphoma with antibiotic treatment to eradicate Helicobacter pylori. Martin J, et al. **Postgrad Med J** 1997 Feb;73(856):109–10
Highlights of the year in gastroenterology. Ballinger A, et al. **Practitioner** 1997 Mar;241(1572):137–40
Galenic formulations and Helicobacter pylori eradication [letter; comment] Boixeda D, et al. **Scand J Gastroenterol** 1996 Jul;31(7):736. Comment on: Scand J Gastroenterol 1996 Jan;31(1):49–53.
Eradication of Helicobacter pylori affects symptoms in non-ulcer dyspepsia. Gilvarry J, et al. **Scand J Gastroenterol** 1997 Jun;32(6):535–40
Unhealed duodenal ulcers despite Helicobacter pylori eradication. Gisbert JP, et al. **Scand J Gastroenterol** 1997 Jul;32(7):643–50
Cure of Helicobacter pylori infection improves gastric acid secretion in patients with corpus gastritis. Gutierrez O, et al. **Scand J Gastroenterol** 1997 Jul;32(7):664–8
Reversal of long-standing iron deficiency anaemia after eradication of Helicobacter pylori infection. Marignani M, et al. **Scand J Gastroenterol** 1997 Jun;32(6):617–22
Evaluation of experimental therapeutics in a new mouse model of Helicobacter felis utilizing 16S rRNA polymerase chain reaction for detection. Smith JG, et al. **Scand J Gastroenterol** 1997 Apr;32(4):297–302
Eradication of Helicobacter pylori: omeprazole in combination with antibiotics. Axon AT, et al. **Scand J Gastroenterol Suppl** 1996;215:82–9 (58 ref.)
Italian omeprazole triple therapy--a 1-week regimen. Bazzoli F. **Scand J Gastroenterol Suppl** 1996;215:118
Helicobacter pylori reinfection after apparent eradication—the Ipswich experience. Bell GD, et al. **Scand J Gastroenterol Suppl** 1996;215:96–104
Managing patients in general practice. Brun J. **Scand J Gastroenterol Suppl** 1996;215:116–7
Dual and triple therapy regimens of antisecretory agents and antibiotics for the eradication of Helicobacter pylori: an overview. Ciociola AA, et al. **Scand J Gastroenterol Suppl** 1996;218:3–9 (119 ref.)
Cost-effectiveness of Helicobacter pylori eradication therapy in duodenal ulcer disease. Jönsson B. **Scand J Gastroenterol Suppl** 1996;215:90–5
Helicobacter pylori eradication: therapy other than with bismuth or proton-pump inhibitors. Korman MG. **Scand J Gastroenterol Suppl** 1996;220:41–3 (25 ref.)
Long-term consequences of Helicobacter pylori eradication: clinical aspects. Labenz J, et al. **Scand J Gastroenterol Suppl** 1996;215:111–5 (35 ref.)
Management of Helicobacter pylori-positive peptic ulcer disease. Malfertheiner P. **Scand J Gastroenterol Suppl** 1996; 215:69
New developments in Helicobacter pylori eradication therapy. Pounder RE. **Scand J Gastroenterol Suppl** 1997; 223:43–5 (27 ref.)
Effects of permanent eradication or transient clearance of Helicobacter pylori on histology of gastric mucosa using omeprazole with or without antibiotics. Solcia E, et al. **Scand J Gastroenterol Suppl** 1996;215:105–10
Current indications for Helicobacter pylori eradication therapy. Tytgat GN. **Scand J Gastroenterol Suppl** 1996; 215:70–3 (23 ref.)
Review of Helicobacter pylori eradication regimens. Unge P. **Scand J Gastroenterol Suppl** 1996;215:74–81
Pooled analysis of anti-Helicobacter pylori treatment regimens. Unge P, et al. **Scand J Gastroenterol Suppl** 1996; 220:27–40 (307 ref.)
Quality of life and Helicobacter pylori eradication. Wilhelmsen I. **Scand J Gastroenterol Suppl** 1996;221:18–20
The diagnostic value of enzyme immunoassay and immunoblot in monitoring eradication of Helicobacter pylori. Sörberg M, et al. **Scand J Infect Dis** 1997; 29(2):147–51
Pharmacological therapy of Helico. cter pylori infection. Hoffman JS. **Semin Gastrointest Dis** 1997 Jul;8(3):156–63
Randomised controlled trial of ranitidine versus omeprazole in combination with antibiotics for eradication of Helicobacter pylori. Tham TC, et al. **Ulster Med J** 1996 Nov;65(2):131–6
Helicobacter pylori and stomach ulcers [letter] [see comments] Maloney A. **Vet Rec** 1996 Aug 17;139(7):172. Comment in: Vet Rec 1996 Aug 24;139(8):196.
Acid, protons and Helicobacter pylori. Sachs G, et al. **Yale J Biol Med** 1996 May-Jun;69(3):301–16 (47 ref.)
Pharmacotherapy for acid/peptic disorders. Schubert ML. **Yale J Biol Med** 1996 Mar-Apr;69(2):197–201 (23 ref.)
Evaluation of therapeutic regimens for the treatment of Helicobacter pylori infection. Lee DH, et al. **Yonsei Med J** 1996 Aug;37(4):270–7
Development of duodenal ulcer concomitant with successful Helicobacter pylori eradication. Pohle T, et al. **Z Gastroenterol** 1997 Jul;35(7):563–5
[Changes in the treatment of peptic ulcer (editorial)] Xiao S, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):3–4 **(Chi)**
[Current viewpoints on diagnosis and treatment of Helicobacter pylori infections] Veenendaal RA, et al. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2469–72 **(Dut)**
[The role of Helicobacter in ulcerous disease, current treatment] Deprez P. **J Pharm Belg** 1997 May-Jun; 52(3):135–6 **(Fre)**
[The treatment of Helicobacter pylori infection] de Korwin JD, et al. **Presse Med** 1996 Dec 14;25(39):1917–22 (25 ref.) (Eng. Abstr.) **(Fre)**
[Helicobacter pylori--when and how do gastroenterologists treat themselves? A clinical and practical survey] Labenz J, et al. **Dtsch Med Wochenschr** 1997 May 16; 122(20):637–42 (Eng. Abstr.) **(Ger)**
[Helicobacter pylori eradication: triple therapy versus dual therapy] Dammann HG. **Fortschr Med** 1996 Feb 10; 114(4):34–8 (34 ref.) (Eng. Abstr.) **(Ger)**
[Anti-Helicobacter pylori therapy. Who should be treated, how, how long?] Lux G. **Fortschr Med** 1996 Aug 20; 114(22–23):273–5 **(Ger)**
[Triple ranitidine therapy in Helicobacter pylori infection. Recommendation for effective, safe and cost effective combination for Helicobacter pylori eradication] Miederer S. **Fortschr Med** 1996 Nov 30;114(33):460–2 (Eng. Abstr.) **(Ger)**
[Helicobacter pylori eradication: modified triple therapy with lansoprazole] Müller P, et al. **Fortschr Med** 1996 Dec 20; 114(35–36):497–9 (17 ref.) (Eng. Abstr.) **(Ger)**
[Is gastric acid secretion inhibition necessary for successful eradication of Helicobacter pylori?] Müller P, et al. **Fortschr Med** 1996 Aug 20;114(22–23):275–6 **(Ger)**
[Eradication of Helicobacter pylori infection. A new therapy standard for duodenal ulcer] Caspary WF, et al. **Internist (Berl)** 1996 Dec;37(12):1204–11 (41 ref.) **(Ger)**
[What is the role of H2 receptor blockers today in ulcer therapy?] Creutzfeldt W. **Internist (Berl)** 1996 Sep; 37(9):937–8 **(Ger)**
[Toxic megacolon after Helicobacter pylori eradication therapy] Schweigart U, et al. **Internist (Berl)** 1997 Apr; 38(4):352–4 **(Ger)**
[Good results with Helicobacter pylori eradication for treatment of non-ulcer dyspepsia (letter)] Bock H, et al. **Leber Magen Darm** 1996 Sep;26(5):268 **(Ger)**
[Long-term inhibition of gastric acid secretion. Evaluation and healing of Helicobacter pylori infection? (editorial)] Labenz J, et al. **Leber Magen Darm** 1996 Sep;26(5):241–2 **(Ger)**
[Helicobacter pylori eradication: finally clarity (editorial)] Labenz J. **Leber Magen Darm** 1996 Nov;26(6):282–3 **(Ger)**
[Current developments in Helicobacter pylori therapy] Labenz J. **Leber Magen Darm** 1996 Jul;26(4):223–6 (0 ref.) **(Ger)**
[Helicobacter pylori eradication therapy with bismuth citrate/amoxycillin combination therapy] Stanescu A, et al. **Leber Magen Darm** 1996 Jan;26(1):32–6 (Eng. Abstr.) **(Ger)**
[Comparative effect of lansoprazole/amoxicillin with omeprazole/amoxicillin for the eradication of Helicobacter pylori in patients with duodenal ulcer] Kayser S, et al. **Schweiz Med Wochenschr** 1997 Apr 26;127(17):722–7 (Eng. Abstr.) **(Ger)**
[Effectiveness of short-term triple therapy for healing Helicobacter pylori infection in ulcer disease] Kobler E, et al. **Schweiz Med Wochenschr Suppl** 1997;89:14S–16S (Eng. Abstr.) **(Ger)**
[Therapy of Helicobacter infection] Koop H. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1448–50 (Eng. Abstr.) **(Ger)**
[Meta-analysis should be regarded with extreme caution (letter; comment)] Miehlke S, et al. **Z Gastroenterol** 1996 Aug;34(8):XVIII–XX; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**
[Meta-analysis raises more questions, than it answers (letter; comment)] Petersen KU. **Z Gastroenterol** 1996 Aug; 34(8):XVII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**
[Meta-analyses are hardly suitable for conclusively proving medical controversies (letter; comment)] Stolte M. **Z Gastroenterol** 1996 Aug;34(8):XVII–XVIII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**
[Helicobacter pylori: pretherapeutic resistance status in Germany (Ruhr area)] Tillenburg B, et al. **Z Gastroenterol** 1997 Mar;35(3):165–9 (Eng. Abstr.) **(Ger)**
[Treatment of Helicobacter pylori positive ulcer--the search for simple and effective therapy (editorial)] Eliakim R, et al. **Harefuah** 1996 Nov 15;131(10):405–6 **(Heb)**
[The eradication of Helicobacter pylori and the prevention of ulcer recurrence. The certainties and the open problems] Dobrilla G. **Recenti Prog Med** 1996 Jun;87(6):290–300 (60 ref.) (Eng. Abstr.) **(Ita)**
[Eradication of Helicobacter pylori in patients with end-stage renal disease undergoing dialysis treatment] Tokushima H, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug;38(8):349–55 (Eng. Abstr.) **(Jpn)**
[Two step therapy for education of Helicobacter pylori] Matsukura N. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):569 **(Jpn)**
[A case of gastric MALT lymphoma regressed endoscopically and pathologically after eradication of Helicobacter pylori] Seko A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):21–6 **(Jpn)**
[Time course of disappearance of Helicobacter pylori after topical therapy and new triple therapy] Wang XM, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):79 **(Jpn)**
[Helicobacter pylori infection--clinical consequences and management] Dzieniszewski J. **Pol Arch Med Wewn** 1997; 97 Spec No:13–22 (59 ref.) **(Pol)**
[Early results of treating Helicobacter pylori infections in patients with gastric ulcer and gastritis] Jarczyk G, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):174–8 (Eng. Abstr.) **(Pol)**
[The treatment of children with Helicobarter pylory by triple therapy can be shortened without the risk of losing it eradicating efficacy. Letter] Cilleruelo ML, et al. **An Esp Pediatr** 1996 Nov;45(5):550 **(Spa)**
[Triple-therapy treatment during 1 month versus 2 weeks in gastroduodenal disease due to Helicobacter pylori in children] Cilleruelo Pascual ML, et al. **An Esp Pediatr** 1996 May;44(5):456–60 (Eng. Abstr.) **(Spa)**
[Eradication treatment of Helicobacter pylori in children with triple therapy: can we do it in two weeks? Letter] Díez Domingo J, et al. **An Esp Pediatr** 1996 Nov;45(5):549 **(Spa)**
[Current criteria for the treatment of peptic ulcer] Díaz-Rubio García DM. **An R Acad Nac Med (Madr)** 1996; 113(1):213–21; discussion 221–5 **(Spa)**
[One-week treatment with omeprazole, clarithromycin and amoxicillin: high efficacy in the eradication of Helicobacter pylori and cicatrization of duodenal ulcer] Gisbert JP, et al. **Med Clin (Barc)** 1997 Apr 12;108(14):524–9 (Eng. Abstr.) **(Spa)**
[Infection by Helicobacter pylori and gastroduodenal disease: who should be treated (letter; comment)] Muñoz J, et al. **Med Clin (Barc)** 1997 Jan 11;108(1):34. Comment on: Med Clin (Barc) 1995 Nov 4;105(15):576–9. **(Spa)**
[Erradicating treatment of Helicobacter pylori with lansoprazole and amoxicillin in duodenal ulcer patients] Gisbert JP, et al. **Rev Clin Esp** 1996 Sep;196(9):588–93 (Eng. Abstr.) **(Spa)**
[Why, when and how to treat Helicobacter pylori infection in gastroduodenal ulcer disease?] Gisbert JP, et al. **Rev Clin Esp** 1996 Sep;196(9):610–21 (248 ref.) **(Spa)**
[What is the current role of clarithromycin in the eradication of Helicobacter pylori?] Gisbert JP, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):305–12 (108 ref.) **(Spa)**
[Is there a correlation between the values of breath tests and the response to the treatment for the eradication of Helicobacter pylori? (letter)] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Jul;88(7):465–9 (Eng. Abstr.) **(Spa)**
[The efficacy of using a short course of 6-day duration (OCA-6) in the treatment to eradicate Helicobacter pylori infection. Omeprazole, clarithromycin, amoxicillin (letter)]

Rodrigo Sáez L, et al. **Rev Esp Enferm Dig** 1997 Feb; 89(2):146–7 **(Spa)**

[Eradication of Helicobacter pylori and chronic abdominal pain (editorial)] Madrazo de la Garza JA. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4):398–9 **(Spa)**

[Eradication of Helicobacter pylori in patients with recurrent abdominal pain using a triple drug treatment] Ramírez Mayans J, et al. **Rev Gastroenterol Mex** 1996 Oct–Dec; 61(4):310–3 (Eng. Abstr.) **(Spa)**

[Ragnar Norrby on antibiotic resistance. Treatment of H pylori may result in a horror scenario] Norrby R. **Lakartidningen** 1996 Nov 20;93(47):4267–8 **(Swe)**

[The effect of tactivin and the intraduodenal administration of drug mixtures on the efficacy of the therapy of duodenal peptic ulcer] Katerenchuk ip. **Lik Sprava** 1996 Mar–Apr; (3–4):60–3 (Eng. Abstr.) **(Ukr)**

ECONOMICS

Clinical economics review: Helicobacter pylori–associated peptic ulcer disease. Bodger K, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):273–82 (52 ref.)

Pharmacoeconomic comparison of treatments for the eradication of Helicobacter pylori [see comments] Taylor JL, et al. **Arch Intern Med** 1997 Jan 13;157(1):87–97. Comment in: ACP J Club 1997 Jul–Aug;127(1):22.

Economics of Helicobacter pylori eradication therapy. Deltenre MA. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S23–6; discussion S27–9 (22 ref.)

Cost–effectiveness of Helicobacter pylori eradication therapy in duodenal ulcer disease. Jönsson B. **Scand J Gastroenterol Suppl** 1996;215:90–5

[Medico–economic aspects of the treatment of duodenal ulcer: from antisecretory treatment to eradication of Helicobacter pylori] Carrère MO, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1023–30 (Eng. Abstr.) **(Fre)**

ENZYMOLOGY

Helicobacter pylori stimulates inducible nitric oxide synthase expression and activity in a murine macrophage cell line. Wilson KT, et al. **Gastroenterology** 1996 Dec; 111(6):1524–33

Ornithine decarboxylase activity is a marker of premalignancy in longstanding Helicobacter pylori infection. Patchett SE, et al. **Gut** 1996 Dec;39(96):807–10

Essential role of urease in vitro and in vivo Helicobacter pylori colonization study using a wild–type and isogenic urease mutant strain. Karita M, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S160–3

Superoxide dismutase activity in Helicobacter pylori–positive antral gastritis in children. Broide E, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):609–13

Expression of human telomerase RNA is an early event of stomach carcinogenesis. Kuniyasu H, et al. **Jpn J Cancer Res** 1997 Feb;88(2):103–7

EPIDEMIOLOGY

Helicobacter pylori duodenal colonization in children. Bonamico M, et al. **Acta Paediatr** 1997 Apr;86(4):356–60

Recurrent abdominal pain and Helicobacter pylori in a community–based sample of London children [see comments] O'Donohoe JM, et al. **Acta Paediatr** 1996 Aug; 85(8):961–4. Comment in: Acta Paediatr 1997 Jun;86(6):671–3.

High risk of Helicobacter pylori infection associated with cow's milk antibodies in young diabetics. Pocecco M, et al. **Acta Paediatr** 1997 Jul;86(7):700–3

The prevalence of Helicobacter pylori infection among inhabitants and healthy employees of institutes for the intellectually disabled. Böhmer CJ, et al. **Am J Gastroenterol** 1997 Jun;92(6):1000–4

Helicobacter pylori infection in Eastern Europe: seroprevalence in the Polish population of Lower Silesia. Matysiak–Budnik T, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2513–5

Helicobacter pylori and the birth cohort effect: evidence of a continuous decrease of infection rates in childhood. Roosendaal R, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1480–2

Risk of infection with Helicobacter pylori and hepatitis A virus in different groups of hospital workers. Rudi J, et al. **Am J Gastroenterol** 1997 Feb;92(2):258–62

Helicobacter pylori infection and growth delay in older children. Perri F, et al. **Arch Dis Child** 1997 Jul;77(1):46–9

Seroprevalence of Helicobacter pylori in patients with surgical peptic ulcer. Lee WJ, et al. **Arch Surg** 1997 Apr; 132(4):430–3; discussion 434

Prevalence of Helicobacter pylori infection in different ethnic groups in New Zealand children and adults. Fraser AG, et al. **Aust N Z J Med** 1996 Oct;26(5):646–51

Comparison of two enzyme–linked immunosorbent assay tests for diagnosis of Helicobacter pylori infection in China. Groves FD, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):551–2

High seropositivity of anti–CagA antibody in Helicobacter pylori–infected patients irrelevant to peptic ulcers and normal mucosa in Japan. Maeda S, et al. **Dig Dis Sci** 1997 Sep;42(9):1841–7

Helicobacter pylori infection and gastric cancer. A nested case–control study in a rural area of Japan. Watanabe Y, et al. **Dig Dis Sci** 1997 Jul;42(7):1383–7

Recurrence of Helicobacter pylori infection after successful eradication: nature and possible causes. Xia HX, et al. **Dig Dis Sci** 1997 Sep;42(9):1821–34 (184 ref.)

Helicobacter antibodies in 1973 and 1994 in the adult population of Vammala, Finland. Kosunen TU, et al. **Epidemiol Infect** 1997 Aug;119(1):29–34

The effect of measurement error on the determination of Helicobacter pylori prevalence. Cockburn M, et al. **Epidemiology** 1997 Mar;8(2):205–9

Prevalence of and risk factors for Helicobacter pylori infection in the western part of Germany. Breuer T, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):47–52

Seroprevalence of Helicobacter pylori in a birth cohort of 21–year–old New Zealanders. Fawcett JP, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):365–9

Reinfection and duodenal ulcer relapse in south–east Asian patients following successful Helicobacter pylori eradication: results of a 2–year follow–up. Goh KL, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1157–60

Helicobacter pylori infection in a healthy population in Spain. Martín–de–Argila C, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1165–8

Epidemiology and association with extra–gastrointestinal diseases. Mégraud F, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):615

Helicobacter pylori reinfection is rare in peptic ulcer patients cured by antimicrobial therapy. Miehlke S, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1161–3

Helicobacter pylori infection and upper gastrointestinal patholgy in a British immigrant Indian community [see comments] Seery JP, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):191–4. Comment in: Eur J Gastroenterol Hepatol 1997 Jun;9(6):647–8.

The significance of selected epidemiologico–clinical factors in the prevalence of the Helicobacter pylori infection in young males. Kopański Z, et al. **Eur J Med Res** 1997 Aug 28;2(8):358–60

Helicobacter pylori disease in childhood. Blecker U. **Eur J Pediatr** 1996 Sep;155(9):753–5 (35 ref.)

Helicobacter pylori infection in symptomatic and asymptomatic children: a prospective clinical study. Oztürk H, et al. **Eur J Pediatr Surg** 1996 Oct;6(5):265–9

Helicobacter pylori: a vanishing problem? [editorial] Tytgat GN. **Gastroenterology** 1997 May;112(5):1435

Profile of Helicobacter pylori cytotoxin derived from two areas of Japan with different prevalence of atrophic gastritis. Ito S, et al. **Gut** 1996 Dec;39(96):800–6

Seroepidemiology of Helicobacter pylori infection and hepatitis A in a rural area: evidence against a common mode of transmission. Luzza F, et al. **Gut** 1997 Aug; 41(2):164–8

Helicobacter pylori infection in children: relation with current household living conditions. McCallion WA, et al. **Gut** 1996 Jul;39(1):18–21

Precancerous gastric lesions and Helicobacter pylori. Masci E, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):854–8

Helicobacter pylori in the Indian environment. Bhatia SJ, et al. **Indian J Gastroenterol** 1995 Oct;14(4):139–44 (63 ref.)

Epidemiology of Helicobacter pylori infection among 4742 randomly selected subjects from Northern Ireland. Murray LJ, et al. **Int J Epidemiol** 1997 Aug;26(4):880–7

Helicobacter pylori infection in families of Helicobacter pylori–positive children. Bonamico M, et al. **Ital J Gastroenterol** 1996 Dec;28(9):512–7

Seroepidemiology of Helicobacter pylori infection in a cohort of children monitored from 6 months to 11 years of age. Granström M, et al. **J Clin Microbiol** 1997 Feb;35(2):468–70

Helicobacter pylori among Egyptian patients with chronic liver diseases. A comparative study. Omar MM, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):563–70

Helicobacter pylori infection in childhood: H. pylori isolation rate in gastric juice in relation to positive serum antibody rates. Okuda M, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:6–8

Prevalence of Helicobacter pylori infection–associated histologic chronic gastritis in the Spanish population. Pajares JM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:1–5

Helicobacter pylori gastritis—epidemiology. Sipponen P. **J Gastroenterol** 1997 Apr;32(2):273–7 (32 ref.)

Prevalence of and risk factors for Helicobacter pylori infection in a multi–racial dyspeptic Malaysian population undergoing endoscopy. Goh KL. **J Gastroenterol Hepatol** 1997 Jun;12(6):S29–35

Risk factors of peptic ulcer disease: different impact of Helicobacter pylori in Dutch and Japanese populations? Schlemper RJ, et al. **J Gastroenterol Hepatol** 1996 Sep; 11(9):825–31

Increased prevalence of Helicobacter pylori infection among patients affected with intestinal–type gastric cancer at non–cardiac locations. Wu MS, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):425–8

Seroprevalence and epidemiology of Helicobacter pylori infection in patients with cirrhosis. Calvet X, et al. **J Hepatol** 1997 Jun;26(6):1249–54

A population–based serologic survey of Helicobacter pylori infection in children and adolescents in the United States. Staat MA, et al. **J Infect Dis** 1996 Nov;174(5):1120–3

Prevalence of Helicobacter pylori infection in asymptomatic children. Hardikar W, et al. **J Paediatr Child Health** 1995 Dec;31(6):537–41

Prevalence of Helicobacter pylori antibodies in children in Bloemfontein, South Africa. Pelser HH, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):135–9

Investigation for the prevalence of Helicobacter pylori infection in patients with gastric carcinoma in Madras, India. Sivaprakash R, et al. **Jpn J Med Sci Biol** 1996 Apr; 49(2):49–56

Helicobacter pylori infection in children [letter] Rowland M, et al. **Lancet** 1997 Jan 18;349(9046):209

Helicobacter pylori infection in an Australian regional city: prevalence and risk factors. Peach HG, et al. **Med J Aust** 1997 Sep 15;167(6):310–3

Helicobacter pylori infection in Malaysia [editorial] Mazlam MZ. **Med J Malaysia** 1995 Sep;50(3):205–7

Seroprevalence of Helicobacter pylori infection in patients with connective tissue diseases. Showji Y, et al. **Microbiol Immunol** 1996;40(7):499–503

The 13C urea breath test to assess Helicobacter pylori infection in school children. Dore SP, et al. **Natl Med J India** 1997 Mar–Apr;10(2):57–60

Helicobacter pylori infection in haemodialysis patients and renal transplant recipients. Ozgür O, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):289–91

Sociodemographic, hygienic and nutritional correlates of Helicobacter pylori infection of young Bangladeshi children. Clemens J, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1113–8

Epidemiological study of the prevalence of Helicobacter pylori infection in the general population in Asturias, Spain. Rodrigo Sáez L, et al. **Rev Esp Enferm Dig** 1997 Jul; 89(7):511–22 **(Eng, Spa)**

Seroprevalence of Helicobacter pylori in south Sweden and Iceland. Bergenzaun P, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1157–61

Seroprevalence of Helicobacter pylori infection in medical staff in Shanghai. Liu WZ, et al. **Scand J Gastroenterol** 1996 Aug;31(8):749–52

Relation between histologic subtypes and location of gastric cancer and Helicobacter pylori. Martín–de–Argila C, et al. **Scand J Gastroenterol** 1997 Apr;32(4):303–7

Relationship of cigarette smoking, alcohol use, and dietary habits with Helicobacter pylori infection in Japanese men. Shinchi K, et al. **Scand J Gastroenterol** 1997 Jul;32(7):651–5

Helicobacter pylori infection and gastroduodenal ulcer in self–defense officials in Japan [letter] Shinchi K, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1136

Rate of Helicobacter pylori acquisition among Finnish adults: a fifteen year follow–up. Sipponen P, et al. **Scand J Gastroenterol** 1996 Mar;31(3):229–32

Higher prevalence of Helicobacter pylori infection in dyspeptic patients who do not have gastric phase III of the migrating motor complex. Testoni PA, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1063–8

Long–term course and consequences of Helicobacter pylori gastritis. Results of a 32–year follow–up study. Valle J, et al. **Scand J Gastroenterol** 1996 Jun;31(6):546–50

Low seroprevalence of Helicobacter pylori antibodies in historical sera of patients with Crohn's disease. Wagtmans MJ, et al. **Scand J Gastroenterol** 1997 Jul;32(7):712–8

Helicobacter pylori reinfection after apparent eradication—the Ipswich experience. Bell GD, et al. **Scand J Gastroenterol Suppl** 1996;215:96–104

Pathological consequences of Helicobacter pylori infection. Dixon M. **Scand J Gastroenterol Suppl** 1996;215:21

Prevalence of Helicobacter pylori infection among sewage workers. Friis L, et al. **Scand J Work Environ Health** 1996 Oct;22(5):364–8

The expanding genus of Helicobacter: pathogenic and zoonotic potential. Fox JG. **Semin Gastrointest Dis** 1997 Jul;8(3):124–41 (165 ref.)

Helicobacter pylori serology in childhood. Gürakan F, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):329–34

Differing degree and distribution of gastritis in Helicobacter pylori–associated diseases. Meining A, et al. **Virchows Arch** 1997 Jul;431(1):11–5

Epidemiology of Helicobacter pylori infection in Barbados. Edwards CN, et al. **West Indian Med J** 1997 Mar;46(1):3–7

Prevalence of Helicobacter pylori infection and dyspepsia in young adults in Germany. Glasbrenner B, et al. **Z Gastroenterol** 1996 Aug;34(8):478–82

Molecular biology in diagnosis and epidemiology of Helicobacter pylori: PCR for the detection and AP–PCR for characterization of patient isolates. Schwarz E, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):368–78

[A serological study on the infection of Helicobacter pylori among children] Li M, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Feb; 17(1):33–5 (Eng. Abstr.) **(Chi)**

[Preliminary investigation of Helicobacter pylori infection in Linqu County of Shandong province] Jiang J, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr; 18(2):129–32 (Eng. Abstr.) **(Chi)**

[Serological study of the incidence of Helicobacter pylori infection in institutionalized children with brain diseases (letter)] Kalach N, et al. **Arch Pediatr** 1997 Apr;4(4):385–6 **(Fre)**

[Helicobacter infections of man and of domestic carnivores: comparative data] Lecoindre P, et al. **Bull Acad Natl Med** 1997 Mar 18;181(3):431–9 (Eng. Abstr.) **(Fre)**

[Characteristics of Helicobacter pylori infection in the Nouméa Hospital Center (letter)] Peroux JL, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1069–71 **(Fre)**

[Helicobacter pylori infection in developing countries]

Guisset M, et al. **Med Trop (Mars)** 1997;57(1):77–82 (26 ref.) (Eng. Abstr.) **(Fre)**

[Epidemiology of Helicobacter pylori] Ytzhak A, et al. **Harefuah** 1997 Mar 2;132(5):357–60 (29 ref.) **(Heb)**

[The prevalence of Helicobacter pylori positive serology in asymptomatic Japanese children] Kawakami S, et al. **Kansenshogaku Zasshi** 1996 Nov;70(11):1193–4 **(Jpn)**

[Changes in gastric mucosa and Helicobacter pylori infection in young health volunteers] Muszyński J, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):169–73 (Eng. Abstr.) **(Pol)**

[Incidence of Helicobacter infection in adolescents with and without gastroduodenal diseases] Parkhomenko LK, et al. **Klin Med (Mosk)** 1996;74(4):50–1 **(Rus)**

[Helicobacter pylori infection and gastric cancer in Mexico. A challenge for prevention and population control] López Carrillo L, et al. **Rev Gastroenterol Mex** 1997 Jan–Mar; 62(1):22–8 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Helicobacter pylori infection and upper gastrointestinal pathology in a British immigrant Indian community [letter; comment] Tovey FI. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):647–8. Comment on: Eur J Gastroenterol Hepatol 1997 Feb;9(2):191–4.

Helicobacter pylori in Melbourne Chinese immigrants: evidence for oral–oral transmission via chopsticks. Chow TK, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct; 10(5):562–9

ETIOLOGY

Helicobacter pylori infection, a paradigm for chronic mucosal inflammation: pathogenesis and implications for eradication and prevention. Cover TL, et al. **Adv Intern Med** 1996;41:85–117 (214 ref.)

Helicobacter pylori, individual host specificity and human disease. European Helicobacter Study Group Meeting, Copenhagen, October 16–19, 1996. Berg DE, et al. **Bioessays** 1997 Jan;19(1):86–90

Helicobacter pylori, gastric cancer and gastric MALT lymphoma. Williams CN. **Can J Gastroenterol** 1996 Oct; 10(6):359–60 (13 ref.)

Helicobacter pylori infection after partial gastrectomy for peptic ulcer and its role in relapsing disease. Leivonen MK, et al. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):371–4

Establishment of gastric Helicobacter pylori infection in Mongolian gerbils. Hirayama F, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:24–8

Infective dyspepsia in a heart transplant recipient. Huwez FU, et al. **J Gastroenterol** 1996 Dec;31(6):848–50

Oral carriage of Helicobacter pylori: a review. Madinier IM, et al. **J Periodontol** 1997 Jan;68(1):2–6 (55 ref.)

Helicobacter pylori in kidney allograft recipients: high prevalence of colonization and low incidence of active inflammatory lesions. Hruby Z, et al. **Nephron** 1997; 75(1):25–9

Helicobacter pylori infection in gastric xanthomas: immunohistochemical analysis of 145 lesions. Hori S, et al. **Pathol Int** 1996 Aug;46(8):589–93

Minimal chronic inactive gastritis: indicator of pre–existing helicobacter pylori gastritis? Oberhuber G, et al. **Pathol Res Pract** 1996 Oct;192(10):1016–21

Role of lipopolysaccharide and related cytokines in Helicobacter pylori infection. Pece S, et al. **Recenti Prog Med** 1997 May;88(5):237–41 (36 ref.)

[The epidemiology of helicobacteriosis in humans; studies of the survival capacity of the microbe in food] Böhmler G, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct; 103(10):438–43 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori: role in the onset of chronic gastritis and ulcer] Tsimmerman IS, et al. **Klin Med (Mosk)** 1997; 75(4):8–13 (60 ref.) **(Rus)**

[Helicobacter pylori and gastroduodenal pathology: its pathogenesis, diagnosis and therapeutic guidelines] Muñoz Gutiérrez J, et al. **Aten Primaria** 1997 Apr 30;19(7):377–82 (51 ref.) **(Spa)**

GENETICS

Helicobacter pylori infection and genetic polymorphisms for cancer–related genes in gastric carcinogenesis. Kato S, et al. **Biomed Pharmacother** 1997;51(4):145–9

Mice carrying a truncated Apc gene have diminished gastric epithelial proliferation, gastric inflammation, and humoral immunity in response to Helicobacter felis infection. Fox JG, et al. **Cancer Res** 1997 Sep 15;57(18):3972–8

Touchdown PCR: a rapid method to genotype Helicobacter pylori infection [letter] Navaglia F, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):157–60

Infection of the ferret stomach by isogenic flagellar mutant strains of Helicobacter mustelae. Andrutis KA, et al. **Infect Immun** 1997 May;65(5):1962–6

Genetic differences between duodenal ulcer patients who were positive or negative for Helicobacter pylori. Azuma T, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S151–4

Helicobacter pylori cagA+ strains and dissociation of gastric epithelial cell proliferation from apoptosis [see comments] Peek RM Jr, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):863–8. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):836–7.

Did the inheritance of a pathogenicity island modify the virulence of Helicobacter pylori? [see comments] Covacci A, et al. **Trends Microbiol** 1997 May;5(5):205–8 (25 ref.). Comment in: Trends Microbiol 1997 Jul;5(7):264–5.

HISTORY

Hunterian peptic ulcers and Helicobacter pylori. Walker MM, et al. **Ann R Coll Surg Engl** 1997 Sep;79(5):368–71

Barry Marshall and the resurrection of Johannes Fibiger. Weisse AB. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):105–12, 116

IMMUNOLOGY

High risk of Helicobacter pylori infection associated with cow's milk antibodies in young diabetics. Pocecco M, et al. **Acta Paediatr** 1997 Jul;86(7):700–3

Prevalence of serum antibodies to Helicobacter pylori and to CagA protein in liver transplant recipients. Rudi J, et al. **Am J Gastroenterol** 1997 Sep;92(9):1492–5

Characterisation of serum and mucosal antibodies against Helicobacter pylori. McBride PD, et al. **Biochem Soc Trans** 1997 May;25(2):334S

Detection of serum antibodies to CagA and VacA and of serum neutralizing activity for vacuolating cytotoxin in patients with Helicobacter pylori–induced gastritis. Donati M, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):478–82

T–cell, antibody, and cytokine responses to homologs of the 60–kilodalton heat shock protein in Helicobacter pylori infection. Sharma SA, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):440–6

Association of antral mucosal levels of interleukin 8 and reactive oxygen radicals in patients infected with Helicobacter pylori. Zhang QB, et al. **Clin Sci (Colch)** 1997 Jan;92(1):69–73

Immunopathology of Helicobacter pylori gastritis. Kirchner T, et al. **Digestion** 1997;58 Suppl 1:14–6 (5 ref.)

Role of gastric mucosal cytokines in the immunopathogenesis of Helicobacter pylori infection: new hypotheses but still few certitudes. Glupczynski Y, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):447–50

Human serum antibody response against iron–repressible outer membrane proteins of Helicobacter pylori. Worst DJ, et al. **FEMS Microbiol Lett** 1996 Oct 15;144(1):29–32

Gastritis in urease–immunized mice after Helicobacter felis challenge may be due to residual bacteria. Ermak TH, et al. **Gastroenterology** 1997 Oct;113(4):1118–28

Local immunoglobulin G antibodies in the stomach may contribute to immunity against Helicobacter infection in mice. Ferrero RL, et al. **Gastroenterology** 1997 Jul; 113(1):185–94

Host factors in Helicobacter infection. Kapadia CR. **Gastroenterology** 1997 Jul;113(1):361–2

Antigenic mimicry between Helicobacter pylori and gastric mucosa in the pathogenesis of body atrophic gastritis. Negrini R, et al. **Gastroenterology** 1996 Sep;111(3):655–65

Epithelium related deposition of activated complement in Helicobacter pylori associated gastritis. Berstad AE, et al. **Gut** 1997 Feb;40(2):196–203

In vitro evaluation of the role of antibodies against Helicobacter pylori in inhibiting adherence of the organism to gastric cells. Clyne M, et al. **Gut** 1997 Jun;40(6):731–8

Cytokines and Helicobacter pylori—a growth area [comment] Playford R. **Gut** 1996 Dec;39(96):881–2. Comment on: Gut 1996 Dec;39(96):787–94.

Atrophic gastric changes in both Helicobacter felis and Helicobacter pylori infected mice are host dependent and separate from antral gastritis. Sakagami T, et al. **Gut** 1996 Nov;39(5):639–48

Western blot analysis of serological response in Helicobacter pylori in acid peptic diseases. Chatha L, et al. **Indian J Med Res** 1997 Apr;105:170–5

Inflammatory bowel disease: an immunity–mediated condition triggered by bacterial infection with Helicobacter hepaticus. Cahill RJ, et al. **Infect Immun** 1997 Aug; 65(8):3126–31

Low antigenicity of the polysaccharide region of Helicobacter pylori lipopolysaccharides derived from tumors of patients with gastric cancer. Yokota S, et al. **Infect Immun** 1997 Sep;65(9):3509–12

Country–specific constancy by age in cagA+ proportion of Helicobacter pylori infections. Pérez–Pérez GI, et al. **Int J Cancer** 1997 Jul 29;72(3):453–6

Helicobacter pylori infection enhances mucosal interleukin–1 beta, interleukin–6, and the soluble receptor of interleukin–2. Basso D, et al. **Int J Clin Lab Res** 1996; 26(3):207–10

Enhanced T–helper 2 lymphocyte responses: immune mechanism of Helicobacter pylori infection. Fan XG, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):37–9 (30 ref.)

The value of anti–Helicobacter pylori IgG antibodies in establishing eradication of infection in children. Fradkin A, et al. **Isr J Med Sci** 1997 Feb;33(2):87–92

Early fall of anti Helicobacter pylori IgG in eradicated patients with non–ulcer dyspepsia [letter; comment] Di Mario F, et al. **Ital J Gastroenterol** 1995 Dec;27(9):510. Comment on: Ital J Gastroenterol 1994 Apr;26(3):107–10.

Tissue IgA antibody against Helicobacter pylori in patients with gastroduodenal diseases: comparison with bacterial culture, serum IgG antibody, and [13C]Urea breath test. Matsukura N, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S146–50

Lymphocyte proliferative response to Helicobacter pylori CagA protein in patients with duodenal ulcer or gastritis [letter] Tricerri A, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):81–2

Expression of B7–1 and B7–2 costimulatory molecules by human gastric epithelial cells: potential role in CD4+ T cell activation during Helicobacter pylori infection. Ye G, et al. **J Clin Invest** 1997 Apr 1;99(7):1628–36

Quantitative detection of secretory immunoglobulin A to Helicobacter pylori in gastric juice: antibody capture enzyme–linked immunosorbent assay. Hayashi S, et al. **J Clin Lab Anal** 1996;10(2):74–7

Evaluation of Pyloriset Dry, a new rapid agglutination test for Helicobacter pylori antibody detection. Lozniewski A, et al. **J Clin Microbiol** 1996 Jul;34(7):1773–5

Evaluation of eight enzyme immunoassays for detection of immunoglobulin G against Helicobacter pylori. Meijer BC, et al. **J Clin Microbiol** 1997 Jan;35(1):292–4

Serum CagA antibodies in asymptomatic subjects and patients with peptic ulcer: lack of correlation of IgG antibody in patients with peptic ulcer or asymptomatic Helicobacter pylori gastritis. Graham DY, et al. **J Clin Pathol** 1996 Oct; 49(10):829–32

Relationship of immune response to heat–shock protein A and characteristics of Helicobacter pylori–infected patients. Pérez–Pérez GI, et al. **J Infect Dis** 1996 Nov; 174(5):1046–50

Helicobacter pylori reinfection is virtually absent after successful eradication. van der Hulst RW, et al. **J Infect Dis** 1997 Jul;176(1):196–200

A study of accessory cells in the acquired lymphoid tissue of helicobacter gastritis. Sarsfield P, et al. **J Pathol** 1996 Sep;180(1):18–25

Prevalence of Helicobacter pylori antibodies in children in Bloemfontein, South Africa. Pelser HH, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):135–9

Serological indicators of Helicobacter pylori infection in adult dyspeptic patients and healthy blood donors. Rechciński T, et al. **Microbiol Immunol** 1997;41(5):387–93

Prevalence of Helicobacter pylori antibodies in normal children. Ader–Shotet F, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):172–4

Helicobacter pylori acquisition in infancy after decline of maternal passive immunity. Gold BD, et al. **Pediatr Res** 1997 May;41(5):641–6

Immune responses to mucosal infection: the Helicobacter pylori paradigm. Ferrero RL. **Res Immunol** 1997 Feb; 148(2):91–107 (117 ref.)

Heat–shock–proteins–antibodies in patients with Helicobacter pylori associated chronic gastritis. Leri O, et al. **Riv Eur Sci Med Farmacol** 1996 Mar–Apr;18(2):45–7

Antral mucosal cytokine gene expression in Helicobacter pylori infection and duodenal ulcer disease [letter; comment] Ajjan RA, et al. **Scand J Gastroenterol** 1997 Feb; 32(2):191–2. Comment on: Scand J Gastroenterol 1995 Dec;30(12):1153–9.

Characterization of lymphocytic infiltrates in Helicobacter pylori–associated gastritis. Hatz RA, et al. **Scand J Gastroenterol** 1996 Mar;31(3):222–8

Expression of mRNA for interferon–gamma, interleukin–10, and interleukin–12 (p40) in normal gastric mucosa and in mucosa infected with Helicobacter pylori. Karttunen RA, et al. **Scand J Gastroenterol** 1997 Jan;32(1):22–7

Expression of cytokine mRNA in gastric mucosa with Helicobacter pylori infection [see comments] Yamaoka Y, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1153–9. Comment in: Scand J Gastroenterol 1997 Feb;32(2);191–2.

Immune and inflammatory responses to Helicobacter pylori infection. Crabtree JE. **Scand J Gastroenterol Suppl** 1996; 215:3–10 (78 ref.)

Immunologic aspects of Helicobacter pylori infection and malignant transformation of B cells. Crabtree JE, et al. **Semin Gastrointest Dis** 1996 Jan;7(1):30–40 (111 ref.)

The immunobiology of Helicobacter pylori gastritis. Genta RM. **Semin Gastrointest Dis** 1997 Jan;8(1):2–11 (74 ref.)

Immunopathology of Helicobacter pylori infection and disease. Czinn SJ, et al. **Springer Semin Immunopathol** 1997; 18(4):495–513 (123 ref.)

Helicobacter pylori serology in childhood. Gürakan F, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):329–34

Porcine gastric mucosa associated lymphoid tissue (MALT): stimulation by colonization with the gastric bacterial pathogen, Helicobacter pylori. Green WB, et al. **Vet Immunol Immunopathol** 1997 May;56(1–2):119–31

[Application of serology and 14C–urea breath test to monitoring of the effect of anti–Helicobacter pylori chemotheraphy] Hu P, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):819–22 (Eng. Abstr.) **(Chi)**

[Relevance of antigastric autoantibodies in Helicobacter pylori gastritis] Faller G, et al. **Verh Dtsch Ges Pathol** 1996; 80:181–4 (Eng. Abstr.) **(Ger)**

[Immunologic reactions in infections caused by Helicobacter pylori] Chmiela M, et al. **Postepy Hig Med Dosw** 1997; 51(2):115–38 (138 ref.) (Eng. Abstr.) **(Pol)**

[Immunologic response in Helicobacter pylori gastric infection] Terrés AM, et al. **Rev Esp Enferm Dig** 1996 Sep; 88(9):625–9 (43 ref.) **(Spa)**

METABOLISM

Feasibility of analysing [13C]urea breath tests for Helicobacter pylori by gas chromatography–mass spectrometry in the selected ion monitoring mode. Kasho VN, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):985–95

Pharmacokinetic and pharmacodynamic interactions between omeprazole and amoxycillin in Helicobacter pylori-positive healthy subjects. Pommerien W, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):295–301

Enhanced cellular proliferation and p53 accumulation in gastric mucosa chronically infected with Helicobacter pylori. Hibi K, et al. **Am J Clin Pathol** 1997 Jul;108(1):26–34

Relation of lactoferrin levels in gastric mucosa with Helicobacter pylori infection and with the degree of gastric inflammation. Nakao K, et al. **Am J Gastroenterol** 1997 Jun;92(6):1005–11

Helicobacter pylori culture supernatant inhibits binding and proliferative response of human gastric cells to epidermal growth factor: implications for H.pylori interference with ulcer healing? Fujiwara Y, et al. **Digestion** 1997; 58(3):299–303

Acid secretion and Helicobacter pylori. Sachs G, et al. **Digestion** 1997;58 Suppl 1:8–13 (16 ref.)

Aberrant expression of gland-type gastric mucin in the surface epithelium of Helicobacter pylori-infected patients. Byrd JC, et al. **Gastroenterology** 1997 Aug;113(2):455–64

H. pylori and gastric phospholipids of peptic ulcer [letter; comment] Koyama T, et al. **Gastroenterology** 1997 Mar; 112(3):1056–7. Comment on: Gastroenterology 1994 Aug;107(2):362–8.

24-hour gastric pH and extent of duodenal gastric metaplasia in Helicobacter pylori-positive patients. Savarino V, et al. **Gastroenterology** 1997 Sep;113(3):741–5

Helicobacter pylori infection and omeprazole efficacy [letter; comment] Verdú EF, et al. **Gastroenterology** 1996 Nov; 111(5):1401–2. Comment on: Gastroenterology 1996 Mar;110(3):947–50.

Gastric acid secretion [letter; comment] Beales IL. **Gut** 1997 Jan;40(1):155. Comment on: Gut 1996 May;38(5):663–7.

Gastric mucosal secretion of interleukin-10: relations to histopathology, Helicobacter pylori status, and tumour necrosis factor-alpha secretion. Bodger K, et al. **Gut** 1997 Jun;40(6):739–44

Mucosal expression and luminal release of epidermal and transforming growth factors in patients with duodenal ulcer before and after eradication of Helicobacter pylori. Konturek PC, et al. **Gut** 1997 Apr;40(4):463–9

Helicobacter pylori and duodenal ulcers [letter; comment] Oshowo O, et al. **Gut** 1997 Jan;40(1):155–6. Comment on: Gut 1996 May;38(5):663–7.

Vitamin E concentrations in the human stomach and duodenum--correlation with Helicobacter pylori infection. Phull PS, et al. **Gut** 1996 Jul;39(1):31–5

Increased production of interleukin 1 beta and hepatocyte growth factor may contribute to foveolar hyperplasia in enlarged fold gastritis [see comments] Yasunaga Y, et al. **Gut** 1996 Dec;39(96):787–94. Comment in: Gut 1996 Dec;39(96):881–2.

Il-2 receptor expression on gastric mucosa T lymphocytes is enhanced in duodenal ulcer patients compared with non-ulcer dyspeptic patients. Ihan A, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1665–70

Transcriptional expression of gastrin mRNA in Helicobacter pylori infected patients. Gupta A, et al. **Indian J Med Res** 1997 Mar;105:136–40

Tissue IgA antibody against Helicobacter pylori in patients with gastroduodenal diseases: comparison with bacterial culture, serum IgG antibody, and [13C]Urea breath test. Matsukura N, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S146–50

Insulin-like growth factor-I in Helicobacter pylori gastritis and response to eradication using bismuth based triple therapy. Taha AS, et al. **J Clin Pathol** 1996 Aug;49(8):676–8

Effect of Helicobacter pylori lipopolysaccharide (LPS) and LPS derivatives on the production of tissue factor and plasminogen activator inhibitor type 2 by human blood mononuclear cells. Semeraro N, et al. **J Infect Dis** 1996 Dec;174(6):1255–60

Sucrose permeability in children with gastric damage and Helicobacter pylori infection [see comments] Vera JF, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):506–11. Comment in: J Pediatr Gastroenterol Nutr 1997 May;24(5):621–2.

Helicobacter pylori infection accelerates gene expression of glicentin in the gastric mucosa. Its association with intestinal metaplasia of the stomach. Ishihara S, et al. **Scand J Gastroenterol** 1997 May;32(5):460–4

P53 overexpression in gastric adenocarcinoma with Helicobacter pylori infection. Chang KH, et al. **Yonsei Med J** 1997 Apr;38(2):117–24

[Helicobacter pylori infection and gastric acid secretion] Courillon-Mallet A. **Gastroenterol Clin Biol** 1997; 21(2):139–46 (78 ref.) **(Fre)**

[Gastrin and its role in the development of ulcer disease] Lehmann FS. **Schweiz Med Wochenschr** 1997 Apr 5; 127(14):579–84 (35 ref.) (Eng. Abstr.) **(Ger)**

MICROBIOLOGY

Molecular pathogenesis of H. pylori disease. Go MF. **Acta Gastroenterol Latinoam** 1996;26(1):39–43

Effect of proton pump inhibitors on the detection of Helicobacter pylori in gastric biopsies. Dickey W, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):289–93

An evaluation of near-patient testing for Helicobacter pylori in general practice. Jones R, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):101–5

Helicobacter pylori and the risk and management of associated diseases: gastritis, ulcer disease, atrophic gastritis and gastric cancer. Kuipers EJ. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:71–88 (193 ref.)

Treatment strategies for Helicobacter pylori infection. Damianos AJ, et al. **Am Fam Physician** 1997 Jun; 55(8):2765–74, 2784–6 (34 ref.)

Detection of Helicobacter pylori in paraffin-embedded gastric biopsy specimens by in situ hybridization. Karttunen TJ, et al. **Am J Clin Pathol** 1996 Sep;106(3):305–11

Percentage changes in serum pepsinogens are useful as indices of eradication of Helicobacter pylori. Furuta T, et al. **Am J Gastroenterol** 1997 Jan;92(1):84–8

Genetic analysis of the cytotoxin-associated gene and the vacuolating toxin gene in Helicobacter pylori strains isolated from Taiwanese patients. Yang JC, et al. **Am J Gastroenterol** 1997 Aug;92(8):1316–21

Socioeconomic factors in Helicobacter pylori infection among Danish adults. Rosenstock SJ, et al. **Am J Public Health** 1996 Nov;86(11):1539–44

Edgar J. Poth Memorial Lecture. Is Helicobacter pylori a myth or the missing link? Schwesinger WH. **Am J Surg** 1996 Nov;172(5):411–7

Disappearance of Helicobacter without antibiotics in 12 patients with gastritis. Freeman HJ. **Can J Gastroenterol** 1997 Mar;11(2):167–72 (32 ref.)

Helicobacter pylori infection in ulcer pathogenesis. Malfertheiner P, et al. **Digestion** 1997;58 Suppl 1:17–20 (35 ref.)

Antral mucosal Helicobacter pylori infection density as a risk factor of duodenal ulcer. Talamini G, et al. **Digestion** 1997;58(3):211–7

Spiral bacteria in the human stomach: the gastric helicobacters. Dubois A. **Emerg Infect Dis** 1995 Jul-Sep; 1(3):79–85 (59 ref.)

Helicobacter hepaticus, a recently recognized bacterial pathogen, associated with chronic hepatitis and hepatocellular neoplasia in laboratory mice. Rice JM. **Emerg Infect Dis** 1995 Oct-Dec;1(4):129–31

Rapid increase in the prevalence of metronidazole-resistant Helicobacter pylori in the Netherlands. van der Wouden EJ, et al. **Emerg Infect Dis** 1997 Jul-Sep;3(3):385–9

PCR-RFLP typing of ureC from Helicobacter pylori isolated in Argentina from gastric biopsies before and after treatment with clarithromycin. Stone GG, et al. **Epidemiol Infect** 1997 Apr;118(2):119–24

Uptake on Helicobacter pylori research. Pathogenesis and host response. Crabtree JE, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):619–20

Gastrointestinal colonisation of BALB/cA mice by Helicobacter pylori monitored by heparin magnetic separation. Aleljung P, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):303–9

Cell envelope characteristics of Helicobacter pylori: their role in adherence to mucosal surfaces and virulence. Clyne M, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1; 16(2):141–55

Genetic relationship among isolates of Helicobacter pylori: evidence for the existence of a Helicobacter pylori species-complex. Hazell SL, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):27–32

A standardized mouse model of Helicobacter pylori infection: introducing the Sydney strain [published erratum appears in Gastroenterology 1997 Aug;113(2):732] Lee A, et al. **Gastroenterology** 1997 Apr;112(4):1386–97

Evaluation of a new reagent strip rapid urease test for detection of Helicobacter pylori infection. Yousfi MM, et al. **Gastrointest Endosc** 1996 Nov;44(5):519–22

Infection of the ferret stomach by isogenic flagellar mutant strains of Helicobacter mustelae. Andrutis KA, et al. **Infect Immun** 1997 May;65(5):1962–6

Role of adherence in interleukin-8 induction in Helicobacter pylori-associated gastritis. Rieder G, et al. **Infect Immun** 1997 Sep;65(9):3622–30

Increased frequency of sister chromatid exchange in Helicobacter pylori infection [letter] Ozkul Y, et al. **Infection** 1997 Jan-Feb;25(1):53–4

Recurrent Helicobacter cinaedi cellulitis and bacteraemia in a patient with HIV Infection. Sullivan AK, et al. **Int J STD AIDS** 1997 Jan;8(1):59–60

Effects of omeprazole and amoxycillin on the human oral and gastrointestinal microflora in patients with Helicobacter pylori infection. Stark CA, et al. **J Antimicrob Chemother** 1996 Dec;38(6):927–39

Helicobacter canis isolated from a dog liver with multifocal necrotizing hepatitis. Fox JG, et al. **J Clin Microbiol** 1996 Oct;34(10):2479–82

Analysis and typing of the vacA gene from cagA-positive strains of Helicobacter pylori isolated in Japan. Ito Y, et al. **J Clin Microbiol** 1997 Jul;35(7):1710–4

Equally high prevalences of infection with cagA-positive Helicobacter pylori in Chinese patients with peptic ulcer disease and those with chronic gastritis-associated dyspepsia. Pan ZJ, et al. **J Clin Microbiol** 1997 Jun; 35(6):1344–7

Molecular typing of Helicobacter pylori isolates from a multicenter U.S. clinical trial by ureC restriction fragment length polymorphism. Shortridge VD, et al. **J Clin Microbiol** 1997 Feb;35(2):471–3

Helicobacter westmeadii sp. nov., a new species isolated from blood cultures of two AIDS patients. Trivett-Moore NL, et al. **J Clin Microbiol** 1997 May;35(5):1144–50

Heterogeneity in susceptibility to metronidazole among Helicobacter pylori isolates from patients with gastritis or peptic ulcer disease. Weel JF, et al. **J Clin Microbiol** 1996 Sep;34(9):2158–62

Serum CagA antibodies in asymptomatic subjects and patients with peptic ulcer [letter] Fraggetta F, et al. **J Clin Pathol** 1997 Jul;50(7):620

Expression of vacuolating cytotoxin in clinical isolates of Helicobacter pylori. Kodama K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:9–11

Pathogenic diversity of Helicobacter pylori. Mégraud F. **J Gastroenterol** 1997 Apr;32(2):278–81 (28 ref.)

Relationship between progression of gastric mucosal atrophy and Helicobacter pylori infection: retrospective long-term endoscopic follow-up study. Sakaki N, et al. **J Gastroenterol** 1997 Feb;32(1):19–23

Long-term follow-up of gastric histology after Helicobacter pylori eradication. Forbes GM, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):670–3

Cytotoxin and urease activities of Helicobacter pylori isolates from Japanese patients with atrophic gastritis or duodenal ulcer. Murakita H, et al. **J Gastroenterol Hepatol** 1996 Sep; 11(9):819–24

Growth of Helicobacter pylori in candle jars. Fan XG, et al. **J Med Microbiol** 1997 Apr;46(4):354–5

Induction of ulceration and severe gastritis in Mongolian gerbil by Helicobacter pylori infection. Matsumoto S, et al. **J Med Microbiol** 1997 May;46(5):391–7

The role of Helicobacter species in newly recognized gastrointestinal tract diseases of animals. Fox JG, et al. **Lab Anim Sci** 1997 Jun;47(3):222–55 (261 ref.)

The only good Helicobacter pylori is a dead Helicobacter pylori [letter; comment] van Doorn LJ, et al. **Lancet** 1997 Jul 5;350(9070):71–2. Comment on: Lancet 1997 Apr 5;349(9057):1020–2.

Experimental Helicobacter pylori infection in association with other bacteria. Isogai H, et al. **Microbiol Immunol** 1997;41(4):361–5

A bug with excess gastric avidity [news; comment] Doolittle RF. **Nature** 1997 Aug 7;388(6642):515–6. Comment on: Nature 1997 Aug 7;388(6642):539–47.

Secretory, endoscopic and histopathologic changes and prevalence of Helicobacter pylori in the gastroduodenal mucosa in patients with chronic alcoholic pancreatitis. André SB, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep-Oct;51(5):175–9

The mouth-stomach crossing of Helicobacter pylori. Pustorino R, et al. **Riv Eur Sci Med Farmacol** 1996 Sep-Dec;18(5–6):183–6

Clinical value of Helicobacter pylori identification by histochemical methods in patients with chronic gastritis. Raica M, et al. **Rom J Morphol Embryol** 1996 Jan-Jun; 42(1–2):117–21

Colony variation of Helicobacter pylori: pathogenic potential is correlated to cell wall lipid composition. Bukholm G, et al. **Scand J Gastroenterol** 1997 May;32(5):445–54

Flagellin gene diversity among Helicobacter pylori strains and IL-8 secretion from gastric epithelial cells. Ohta-Tada U, et al. **Scand J Gastroenterol** 1997 May;32(5):455–9

High prevalence of the CagA-positive Helicobacter pylori strains in Japanese asymptomatic patients and gastric cancer patients. Shimoyama T, et al. **Scand J Gastroenterol** 1997 May;32(5):465–8

A comparison of Helicobacter pylori and H. heilmannii gastritis. A matched control study involving 404 patients. Stolte M, et al. **Scand J Gastroenterol** 1997 Jan;32(1):28–33

Isolation of Helicobacter pullorum from patients with enteritis. Steinbrueckner B, et al. **Scand J Infect Dis** 1997; 29(3):315–8

Clinical association of Helicobacter pylori gastritis in children [letter] Eltumi M, et al. **South Med J** 1997 Apr;90(4):461–2

Miles of isles [letter] Ochman H. **Trends Microbiol** 1997 Jun; 5(6):222

Helicobacter pylori: controversial and unsolved issues. Tytgat GN, et al. **Yale J Biol Med** 1996 May-Jun; 69(3):261–4

Helicobacter pylori and congestive gastropathy. Bahnacy A, et al. **Z Gastroenterol** 1997 Feb;35(2):109–12

[Infection with Helicobacter pylori, the end in sight?] Loffeld RJ. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2440–1 (20 ref.) **(Dut)**

[The role of Helicobacter in ulcerous disease, current treatment] Deprez P. **J Pharm Belg** 1997 May-Jun; 52(3):135–6 **(Fre)**

[Chronic gastritis with presence of Helicobacter heilmannii (letter)] Prophette B, et al. **Presse Med** 1996 Jul 6–13; 25(24):1124 **(Fre)**

[Ulcer--an infection?] Eissele R, et al. **Chirurg** 1996 Jan; 67(1):1–6 (35 ref.) (Eng. Abstr.) **(Ger)**

[Epidemiology and pathogenesis of Helicobacter pylori infection] Hackelsberger A, et al. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1439–43 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori and ulcer disease: diagnosis and treatment 1995] Kayser S, et al. **Schweiz Rundsch Med Prax** 1996 Sep 24;85(39):1197–200 (Eng. Abstr.) **(Ger)**

[Connection between Helicobacter pylori infection and chronic gastrointestinal urticaria] Kalas D, et al. **Orv Hetil** 1996 Sep 8;137(36):1969–72 (Eng. Abstr.) **(Hun)**

[Helicobacter pylori and peptic ulcer (letter; comment)]

Varga J, et al. **Orv Hetil** 1996 Dec 29;137(52):2947–8. Comment on: Orv Hetil 1996 Jul 7;137(27):1459–67. **(Hun)**

[Helicobacter pylori, chronic gastritis and precancerous gastric manifestations] Testino G, et al. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):145–51 (Eng. Abstr.) **(Ita)**

[Helicobacter pylori clones in the stomach] Matsukura N, et al. **Nippon Ika Daigaku Zasshi** 1997 Apr;64(2):187–8 **(Jpn)**

[Helicobacter pylori—comparison of selected diagnostic methods] Kopański Z, et al. **Folia Med Cracov** 1995; 36(1–4):33–45 (Eng. Abstr.) **(Pol)**

[The importance of nitric oxide (NO) in the development of Helicobacter pylori infection] Kopański Z, et al. **Folia Med Cracov** 1996;37(1–2):49–59 (110 ref.) (Eng. Abstr.) **(Pol)**

[Helicobacter pylori infection is carcinogenic for humans] Aruin LI. **Arkh Patol** 1997 May–Jun;59(3):74–8 (53 ref.) (Eng. Abstr.) **(Rus)**

[Eradication treatment of Helicobacter pylori in children with triple therapy: can we do it in two weeks? Letter] Díez Domingo J, et al. **An Esp Pediatr** 1996 Nov;45(5):549 **(Spa)**

[Again "down with the cells! up with the microbes!"?] Albarracín Teulon A. **An R Acad Nac Med (Madr)** 1996; 113(2):443–53 **(Spa)**

PATHOLOGY

CagA and the outcome of Helicobacter pylori infection [editorial; comment] Blaser MJ, et al. **Am J Clin Pathol** 1996 Nov;106(5):565–7. Comment on: Am J Clin Pathol 1996 Nov;106(5):670–5.

Gastric non-Hodgkin lymphomas of mucosa-associated lymphoid tissue are not associated with more aggressive Helicobacter pylori strains as identified by CagA [see comments] de Jong D, et al. **Am J Clin Pathol** 1996 Nov; 106(5):670–5. Comment in: Am J Clin Pathol 1996 Nov;106(5):565–7.

Point prevalence of peptic ulcer and gastric histology in healthy Indians with Helicobacter pylori infection. Misra V, et al. **Am J Gastroenterol** 1997 Sep;92(9):1487–91

Mucosa-associated lymphoid tissue (MALT) in Barrett's esophagus: prospective evaluation and association with gastric MALT, MALT lymphoma, and Helicobacter pylori. Weston AP, et al. **Am J Gastroenterol** 1997 May; 92(5):800–4

Helicobacter pylori and uremic gastritis: a histopathologic study and a correlation with endoscopic and bacteriologic findings. Moustafa FE, et al. **Am J Nephrol** 1997; 17(2):165–71

Helicobacter mustelae-associated gastric MALT lymphoma in ferrets. Erdman SE, et al. **Am J Pathol** 1997 Jul; 151(1):273–80

Analysis of cell damage and proliferation in Helicobacter pylori-infected human gastric mucosa from patients with gastric adenocarcinoma. Yabuki N, et al. **Am J Pathol** 1997 Sep;151(3):821–9

Biology and treatment of MALT lymphoma: the state-of-the-art in 1996. A workshop at the 6th International Conference on Malignant Lymphoma. Mucosa-Associated Lymphoid Tissue. Zucca E, et al. **Ann Oncol** 1996 Oct;7(8):787–92 (37 ref.)

Pathological case of the month. Helicobacter pylori gastritis. Shetty AK, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):855–6

Effects of Helicobacter pylori colonisation on the adherent gastric mucus barrier. Oliver L, et al. **Biochem Soc Trans** 1997 May;25(2):372S

Clinical application of gastric histology to monitor treatment of dual therapy in H. pylori eradication. Yang HB, et al. **Dig Dis Sci** 1997 Sep;42(9):1835–40

Helicobacter pylori colonization of Barrett's esophagus and its progression to cancer. Wright TA, et al. **Dis Esophagus** 1997 Jul;10(3):196–200

Non-neoplastic changes in gastric antrum: are they different in distally located intestinal and diffuse-type gastric adenocarcinoma? Knawy BA, et al. **Eur J Cancer Prev** 1997 Apr;6(2):167–70

Antibodies to CagA protein are associated with gastric atrophy in Helicobacter pylori infection. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):645–9

Antral and fundic D-cell numbers in Helicobacter pylori infection [see comments] Chamouard P, et al. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):361–5. Comment in: Eur J Gastroenterol Hepatol 1997 Apr;9(4):333–5.

Helicobacter pylori and acid secretion: where are we now? [comment] McColl KE. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):333–5 (20 ref.). Comment on: Eur J Gastroenterol Hepatol 1997 Apr;9(4):361–5.

A standardized mouse model of Helicobacter pylori infection: introducing the Sydney strain [published erratum appears in Gastroenterology 1997 Aug;113(2):732] Lee A, et al. **Gastroenterology** 1997 Apr;112(4):1386–97

24-hour gastric pH and extent of duodenal gastric metaplasia in Helicobacter pylori-positive patients. Savarino V, et al. **Gastroenterology** 1997 Sep;113(3):741–5

Gastric mucosal biopsy via a nasogastric tube: a nonendoscopic method for diagnosing fundic and antral mucosal gastritis and Helicobacter pylori infection in man. Cryer B, et al. **Gastrointest Endosc** 1996 Sep;44(3):317–23

Non-nonsteroidal anti-inflammatory drug, nonmalignant gastric ulcers. Bjorkman DJ, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):527–44 (102 ref.)

Relation between gastric acid output, Helicobacter pylori, and gastric metaplasia in the duodenal bulb [see comments] Harris AW, et al. **Gut** 1996 Oct;39(4):513–20. Comment in: Gut 1996 Oct;39(4):615–6.

Helicobacter pylori, gastric acid, and duodenal gastric metaplasia [comment] McColl KE. **Gut** 1996 Oct; 39(4):615–6. Comment on: Gut 1996 Oct;39(4):508–12. Comment on: Gut 1996 Oct;39(4):513–20.

Circadian gastric acidity in Helicobacter pylori positive ulcer patients with and without gastric metaplasia in the duodenum [see comments] Savarino V, et al. **Gut** 1996 Oct; 39(4):508–12. Comment in: Gut 1996 Oct;39(4):615–6.

Cellular proliferation and ploidy of the gastric mucosa: the role of Helicobacter pylori. Abdel-Wahab M, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):880–5

Expression of cytokeratins typical for ductal and squamous differentiation in the human stomach: an immunohistochemical study of normal foveolar epithelium, Helicobacter pylori gastritis and intestinal metaplasia. Schwerer MJ, et al. **Histopathology** 1996 Aug;29(2):131–7

Staining for Helicobacter pylori: an E-mail survey [letter; comment] Agbamu DA. **Hum Pathol** 1997 May;28(5):635–6 . Comment on: Hum Pathol 1996 Jan;27(1);1–4.

Long-term semi-quantitative follow-up of Helicobacter pylori associated gastritis. Tham TC, et al. **Ir J Med Sci** 1997 Jul–Sep;166(3):132–4

Helicobacter pylori and intestinal metaplasia. Evrensel T, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):215–9

Subtypes of intestinal metaplasia and their relationship to Helicobacter pylori. Evrensel T, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):221–4

Association of Helicobacter pylori and diffuse type gastric cancer. Handa Y, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:29–32

Induction of gastric ulcer and intestinal metaplasia in mongolian gerbils infected with Helicobacter pylori. Hirayama F, et al. **J Gastroenterol** 1996 Oct;31(5):755–7

Helicobacter pylori infection accelerates human gastric mucosal cell proliferation. Murakami K, et al. **J Gastroenterol** 1997 Apr;32(2):184–8

Histologically diagnosed Helicobacter pylori in heart transplant recipients. Huwez FU, et al. **J Heart Lung Transplant** 1997 Jun;16(6):596–9

Helicobacter pylori cagA+ strains and dissociation of gastric epithelial cell proliferation from apoptosis [see comments] Peek RM Jr, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):863–8. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):836–7.

Hormonal, secretory and morphological alterations in gastric mucosa in the course of Helicobacter pylori eradication in patients with duodenal ulcer and non-ulcer dyspepsia. Bobrzyński A. **J Physiol Pharmacol** 1997 Jun;48 Suppl 3:1–56 (198 ref.)

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Tsang P, et al. **JAMA** 1996 Oct 9; 276(14):1136; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Non-ulcer dyspepsia and Helicobacter pylori infection—morphological analysis according to the Sydney system—changes before and after treatment. Lewy-Trenda I, et al. **Pol J Pathol** 1996;47(2):57–63

Morphological and immunohistochemical examinations of the dynamic changes of gastric mucosa associated with the treatment of helicobacter pylori infection in children. Kozłowski W, et al. **Rocz Akad Med Bialymst** 1995; 40(3):678–84

Intestinal metaplasia and dysplastic modifications in H. pylori gastritis. Tăban S, et al. **Rom J Morphol Embryol** 1996 Jan–Jun;42(1–2):109–15

Gastric mucosa-associated lymphoid tissue in autoimmune thyroid diseases. Cammarota G, et al. **Scand J Gastroenterol** 1997 Sep;32(9):869–72

Inoculation of VacA- and CagA- Helicobacter pylori delays gastric ulcer healing in the rat. Li H, et al. **Scand J Gastroenterol** 1997 May;32(5):439–44

Helicobacter pylori inhibits the secretory activity of gastric parietal cells in patients with chronic gastritis. An ultrastructural study. Taguchi Y, et al. **Scand J Gastroenterol** 1997 Jul;32(7):656–63

Immature mucopeptic cell expansion in Helicobacter pylori-positive patients: a marker of progression towards gastric preneoplastic changes? [letter] Testino G, et al. **Scand J Gastroenterol** 1997 Jun;32(6):623–4

Intragastric pH during treatment with omeprazole: role of Helicobacter pylori and H. pylori-associated gastritis. Verdú EF, et al. **Scand J Gastroenterol** 1996 Dec; 31(12):1151–6

Histological spectrum of lymphoid follicles and aggregates in Helicobacter pylori gastritis. Amarapurkar AD, et al. **Trop Gastroenterol** 1997 Jan–Mar;18(1):22–3

Helicobacter mustelae-associated gastric adenocarcinoma in ferrets (Mustela putorius furo). Fox JG, et al. **Vet Pathol** 1997 May;34(3):225–9

[Pathology of Helicobacter infection] Kirchner T, et al. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1444–7 (Eng. Abstr.) **(Ger)**

[Lymphocytic gastritis: autoimmune disease or variant of Helicobacter gastritis?] Kushima R, et al. **Verh Dtsch Ges Pathol** 1996;80:208–11 (Eng. Abstr.) **(Ger)**

[Morphologic changes of gastric mucosa in Helicobacter pylori infection in patients with peptic ulcer disease and chronic gastritis] Raczyńska A, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):165–8 (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

Antral gastrin cell hyperfunction and Helicobacter pylori infection. Annibale B, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):607–15

Effects of ranitidine bismuth citrate on gastric acid secretion and gastrin release in subjects with and without Helicobacter pylori infection. Ciociola AA, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):905–12

Recurrence of duodenal ulcer after Helicobacter pylori eradication is related to high acid output. Harris AW, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):331–4

Reinfection versus recrudescence in Helicobacter pylori infection. van der Ende A, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:55–61 (68 ref.)

The role of Helicobacter pylori infection in non-ulcer dyspepsia. Veldhuyzen van Zanten SJ. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:63–9 (55 ref.)

Parietal cell hyperactivity is not due to Helicobacter pylori infection in patients with duodenal ulcer [see comments] Valenzuela M, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2114–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1070–1.

Pathophysiology of Helicobacter pylori-induced gastritis and peptic ulcer disease. Peek RM Jr, et al. **Am J Med** 1997 Feb;102(2):200–7 (93 ref.)

Biology and treatment of MALT lymphoma: the state-of-the-art in 1996. A workshop at the 6th International Conference on Malignant Lymphoma. Mucosa-Associated Lymphoid Tissue. Zucca E, et al. **Ann Oncol** 1996 Oct;7(8):787–92 (37 ref.)

Helicobacter pylori lipopolysaccharide inhibits acid secretion in pylorus-ligated conscious rats. Ootsubo C, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):532–7

Is the study of human cancer-associated factors, the best or the only model for human carcinogenesis research? I. The question of Helicobacter pylori infection as an accused human gastric carcinogen (editorial). Mathé G. **Biomed Pharmacother** 1997;51(1):1–4 (36 ref.)

Adherence of Helicobacter pylori to the gastric mucosa. Clyne M, et al. **Can J Gastroenterol** 1997 Apr;11(3):243–8 (93 ref.)

Impact of Helicobacter pylori colonization on immunoreactive epidermal growth factor and transforming growth factor-alpha in gastric juice. Its potential pathogenetic implications. Marcinkiewicz M, et al. **Dig Dis Sci** 1996 Nov;41(11):2150–5

Production of reactive oxygen species by gastric cells in association with Helicobacter pylori. Bagchi D, et al. **Free Radic Res** 1996 Jun;24(6):439–50

Gastric mucosal hydrophobicity in duodenal ulceration: role of Helicobacter pylori infection density and mucus lipids. Asante M, et al. **Gastroenterology** 1997 Aug;113(2):449–54

Helicobacter pylori infection activates NF-kappa B in gastric epithelial cells. Keates S, et al. **Gastroenterology** 1997 Oct; 113(4):1099–109

Acid secretion, serum pepsinogen A and Helicobacter pylori [letter] Testino G, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):81–2

Helicobacter pylori—can the mechanisms of pathogenesis guide us towards novel strategies for treatment and prevention? Falk P. **J Intern Med** 1996 Dec;240(6):319–32 (93 ref.)

Dysfunction in gastric myoelectric and motor activity in Helicobacter pylori positive gastritis patients with non-ulcer dyspesia. Thor P, et al. **J Physiol Pharmacol** 1996 Sep;47(3):469–76

Gastric Helicobacter pylori infection as a cause of idiopathic Parkinson disease and non-arteric anterior optic ischemic neuropathy. Altschuler E. **Med Hypotheses** 1996 Nov; 47(5):413–4

Abnormal gastric emptying and Helicobacter pylori infection in patients with cirrhosis of the liver. Kao CH, et al. **Nucl Med Commun** 1996 Oct;17(10):915–9

Helicobacter pylori-associated gastric lymphoma in a girl. Sharon N, et al. **Pediatr Hematol Oncol** 1997 Mar–Apr; 14(2):177–80

Helicobacter pylori infection and gastric emptying of indigestible solids in patients with dysmotility-like dyspepsia. Fock KM, et al. **Scand J Gastroenterol** 1997 Jul;32(7):676–80

Cure of Helicobacter pylori infection improves gastric acid secretion in patients with corpus gastritis. Gutierrez O, et al. **Scand J Gastroenterol** 1997 Jul;32(7):664–8

Gastric bicarbonate secretion and release of prostaglandin E2 are increased in duodenal ulcer patients but not in Helicobacter pylori-positive healthy subjects [see comments] Mertz-Nielsen A, et al. **Scand J Gastroenterol** 1996 Jan;31(1):38–43. Comment in: Scand J Gastroenterol 1996 Aug;31(8):831–2.

Helicobacter pylori infection in non-ulcer dyspeptic and ulcer patients. Determinants and consequences in 'real life'. Thürmer HL, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):744–8

HELICOBACTER INFECTIONS

The role of Helicobacter pylori in pathogenesis: the spectrum of clinical outcomes. Hunt RH.
Scand J Gastroenterol Suppl 1996;220:3–9 (69 ref.)

Helicobacter pylori and disturbance of gastric function associated with duodenal ulcer disease and gastric cancer. McColl KE, et al. **Scand J Gastroenterol Suppl** 1996; 215:32–7 (40 ref.)

Helicobacter pylori and non-ulcer dyspepsia. Talley NJ.
Scand J Gastroenterol Suppl 1996;220:19–22 (51 ref.)

Helicobacter pylori and peptic ulcer disease. Van der Hulst RW, et al. **Scand J Gastroenterol Suppl** 1996;220:10–8 (118 ref.)

The role of Helicobacter pylori in the pathophysiology of duodenal ulcer disease and gastric cancer. McColl KE, et al. **Semin Gastrointest Dis** 1997 Jul;8(3):142–55 (88 ref.)

Long-term effects of Helicobacter pylori infection on acid and pepsin secretion. Halter F, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):99–104 (39 ref.)

[Helicobacter pylori infection and gastric secretion (editorial)] Zaremba-Woroniecka A, et al.
Pol Merkurjusz Lek 1996 Sep;1(3):157–60 **(Pol)**

[Helicobacter pylori (letter; comment)] Macipe Costa RM, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):317. Comment on: Med Clin (Barc) 1995 Nov 4;105(15):576–9. **(Spa)**

PREVENTION & CONTROL

Transmission of Helicobacter pylori infection via flexible fiberoptic endoscopy [see comments] Akamatsu T, et al. **Am J Infect Control** 1996 Oct;24(5):396–401. Comment in: Am J Infect Control 1996 Oct;24(5):343–5.

Vaccine development against Helicobacter pylori infections. Haas R, et al. **Biologicals** 1997 Jun;25(2):175–7 (13 ref.)

Eradication of Helicobacter pylori and regression of B-cell lymphoma. Vanagunas A. **Biomed Pharmacother** 1997; 51(4):156–60 (32 ref.)

Eradication of Helicobacter pylori: an objective assessment of current therapies. Penston JG, et al.
Br J Clin Pharmacol 1997 Mar;43(3):223–43 (376 ref.)

Risk factors for upper gastrointestinal bleeding in intensive care unit patients: role of helicobacter pylori. Federal Hyperimmune Immunoglobulin Therapy Study Group. Ellison RT, et al. **Crit Care Med** 1996 Dec;24(12):1974–81

Prevention of Helicobacter pylori infection by lactobacilli in a gnotobiotic murine model. Kabir AM, et al. **Gut** 1997 Jul;41(1):49–55

Helicobacter pylori infection in the young in Bangladesh: prevalence, socioeconomic and nutritional aspects. Mahalanabis D, et al. **Int J Epidemiol** 1996 Aug;25(4):894–8

Vaccination against Helicobacter pylori. Lee A.
J Gastroenterol 1996 Nov;31 Suppl 9:69–74 (50 ref.)

Pathogenesis and prevention of stomach cancer. Youn HS, et al. **J Korean Med Sci** 1996 Oct;11(5):373–85 (96 ref.)

Helicobacter pylori and cancer [letter; comment] Melato M, et al. **J R Soc Med** 1997 Jun;90(6):359. Comment on: J R Soc Med 1996 Dec;89(12):674–8.

The only good Helicobacter pylori is a dead Helicobacter pylori [letter; comment] Graham DY. **Lancet** 1997 Jul 5; 350(9070):70–1; discussion 72. Comment on: Lancet 1997 Apr 5;349(9057):1020–2.

Prevention of Helicobacter pylori infection. Lee A.
Scand J Gastroenterol Suppl 1996;215:11–5 (23 ref.)

Helicobacter pylori and gastroduodenal disorders: new approaches for prevention, diagnosis and treatment. Kotloff KL. **Vaccine** 1996 Aug;14(12):1174–5

Protective immunization against Helicobacter stimulates long-term immunity. Radcliff FJ, et al. **Vaccine** 1996 Jun; 14(8):780–4

Novel intranasal immunization techniques for antibody induction and protection of mice against gastric Helicobacter felis infection. Weltzin R, et al. **Vaccine** 1997 Mar;15(4):370–6

[Will a specific preventive or curative vaccine for gastroduodenal ulcer be achieved?] Solano Aliende JA.
Rev Esp Enferm Dig 1997 Jan;89(1):46–7 **(Spa)**

RADIOGRAPHY

Helicobacter pylori and gastroduodenal diseases: a minor revolution for radiologists [comment] [see comments] Gelfand DW, et al. **AJR Am J Roentgenol** 1997 Jun; 168(6):1421–2. Comment on: AJR Am J Roentgenol 1997 Jun;168(6):1403. Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1415–20.

From red goggles to Helicobacter pylori [editorial; comment] Rogers LF. **AJR Am J Roentgenol** 1997 Jun;168(6):1403. Comment on: AJR Am J Roentgenol 1997 Jun;168(6):1415–20. Comment on: AJR Am J Roentgenol 1997 Jun;168(6):1421–2.

SURGERY

Helicobacter pylori gastritis associated with a gastric inflammatory fibroid tumour and sarcoidosis. Buciuto R, et al. **Eur J Surg** 1996 May;162(5):421–4

THERAPY

Gastric outlet obstruction and Helicobacter pylori [letter; comment] de Boer WA. **Am J Gastroenterol** 1997 Feb; 92(2):362–3. Comment on: Am J Gastroenterol 1996 May;91(5):987–90.

Do ulcers burn out or burn on? Managing duodenal ulcer diathesis in the Helicobacter pylori era. Ad Hoc Committee on FDA-Related Matters. Neil GA.
Am J Gastroenterol 1997 Mar;92(3):387–93 (59 ref.)

Testing to check success of treatment to eradicate H pylori [letter; comment] Phull PS, et al. **BMJ** 1996 Sep 21; 313(7059):752. Comment on: BMJ 1996 May 25;312(7042):1361–2. Comment on: BMJ 1996 May 25;312(7042):1362.

Why guidelines are required for the treatment of Helicobacter pylori infection in children. Sherman PM, et al.
Clin Invest Med 1996 Oct;19(5):362–7 (25 ref.)

Prospects for the development of a vaccine against Helicobacter pylori. Telford JL, et al. **Drugs** 1996 Dec; 52(6):799–804 (36 ref.)

Current European concepts in the management of Helicobacter pylori infection--the Maastricht Consensus Report. The European Helicobacter Pylori Study Group (EHPSG). Malfertheiner P, et al.
Eur J Gastroenterol Hepatol 1997 Jan;9(1):1–2 (0 ref.)

Therapeutic immunization against Helicobacter mustelae in naturally infected ferrets [see comments] Cuenca R, et al. **Gastroenterology** 1996 Jun;110(6):1770–5. Comment in: Gastroenterology 1996 Jun;110(6):2003–6.

Therapeutic immunization against Helicobacter infection [editorial; comment] Lee A. **Gastroenterology** 1996 Jun; 110(6):2003–6 (31 ref.). Comment on: Gastroenterology 1996 Jun;110(6):1770–5.

Prevention of ulcer recurrence after eradication of Helicobacter pylori: a prospective long-term follow-up study. Van der Hulst RW, et al. **Gastroenterology** 1997 Oct; 113(4):1082–6

Evaluation of initial noninvasive therapy in pediatric patients presenting with suspected ulcer disease. Olson AD, et al. **Gastrointest Endosc** 1996 Nov;44(5):554–61

Helicobacter pylori--can the mechanisms of pathogenesis guide us towards novel strategies for treatment and prevention? Falk P. **J Intern Med** 1996 Dec;240(6):319–32 (93 ref.)

Helicobacter pylori infection [letter; comment] Anand JK. **J R Soc Med** 1997 Mar;90(3):180. Comment on: J R Soc Med 1996 Dec;89(12):674–8.

[The updated guideline 'Gastric complaints' o the Dutch College of General Practitioners; a reaction from a gastroenterologist] Lamers CB. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):982–3 (Eng. Abstr.) **(Dut)**

[Diagnosis and therapy of Helicobacter pylori infection in adults (see comments)] Caspary WF, et al.
Dtsch Med Wochenschr 1996 Nov 1;121(44):1375–8. Comment in: Dtsch Med Wochenschr 1997 Mar 14;122(11):348–9. **(Ger)**

[Functional dyspepsia: approved equal to approved therapy? (letter)] Müller P, et al. **Dtsch Med Wochenschr** 1997 Apr 4;122(14):461 **(Ger)**

[Non-ulcerative dyspepsia associated with H. pylori: indications for eradication?] Dehesa Violante M.
Rev Gastroenterol Mex 1996 Oct–Dec;61(4 Suppl 2):S40–2 **(Spa)**

TRANSMISSION

Review article: is Helicobacter pylori transmitted by the gastro-oral route? Axon AT. **Aliment Pharmacol Ther** 1995 Dec;9(6):585–8 (33 ref.)

Transmission of Helicobacter pylori infection via flexible fiberoptic endoscopy [see comments] Akamatsu T, et al. **Am J Infect Control** 1996 Oct;24(5):396–401. Comment in: Am J Infect Control 1996 Oct;24(5):343–5.

Infections transmitted by endoscopy: an international problem [editorial; comment] Favero MS, et al.
Am J Infect Control 1996 Oct;24(5):343–5. Comment on: Am J Infect Control 1996 Oct;24(5):396–401.

A newly developed PCR assay of H. pylori in gastric biopsy, saliva, and feces. Evidence of high prevalence of H. pylori in saliva supports oral transmission. Li C, et al.
Dig Dis Sci 1996 Nov;41(11):2142–9

The transmission of Helicobacter pylori: which theory fits the facts? [editorial; comment] Axon AT.
Eur J Gastroenterol Hepatol 1996 Jan;8(1):1–2. Comment on: Eur J Gastroenterol Hepatol 1996 Jan;8(1):11–4.

Helicobacter pylori in the mouth--negative isolation from dental plaque and saliva [see comments] Luman W, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):11–4. Comment in: Eur J Gastroenterol Hepatol 1996 Jan;8(1):1–2.

Helicobacter pylori transmission: evidence from a comparison with hepatitis A virus. Webb PM, et al.
Eur J Gastroenterol Hepatol 1996 May;8(5):439–41

Helicobacter pylori: is it all in the family? Collins BJ.
Gut 1996 Nov;39(5):768

Helicobacter pylori infection in spouses of patients with duodenal ulcers and comparison of ribosomal RNA gene patterns. Georgopoulos SD, et al. **Gut** 1996 Nov; 39(5):634–8

Prevalence of Helicobacter pylori infection and related gastroduodenal lesions in spouses of Helicobacter pylori positive patients with duodenal ulcer. Parente F, et al.
Gut 1996 Nov;39(5):629–33

Effective reduction of Helicobacter pylori infection after upper gastrointestinal endoscopy by mechanical washing of the endoscope. Wu MS, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1660–4

Vector potential of houseflies (Musca domestica) for Helicobacter pylori. Grübel P, et al. **J Clin Microbiol** 1997 Jun;35(6):1300–3

Helicobacter pylori in Melbourne Chinese immigrants: evidence for oral–oral transmission via chopsticks. Chow TK, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct; 10(5):562–9

Does the use of chopsticks for eating transmit Helicobacter pylori? [letter] Leung WK, et al. **Lancet** 1997 Jul 5; 350(9070):31

Helicobacter pylori acquisition in infancy after decline of maternal passive immunity. Gold BD, et al. **Pediatr Res** 1997 May;41(5):641–6

The mouth–stomach crossing of Helicobacter pylori. Pustorino R, et al. **Riv Eur Sci Med Farmacol** 1996 Sep–Dec;18(5–6):183–6

Seroprevalence of Helicobacter pylori infection in medical staff in Shanghai. Liu WZ, et al. **Scand J Gastroenterol** 1996 Aug;31(8):749–52

Transmission of Helicobacter pylori. Mendall MA.
Semin Gastrointest Dis 1997 Jul;8(3):113–23 (101 ref.)

[Nosocomial transmission of Helicobacter pylori through fiberoptic gastroscopy] Zhao K, et al.
Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1996 Feb; 17(1):36–9 (Eng. Abstr.) **(Chi)**

[Flies--reservoirs and vectors of Helicobacter pylori] Grübel P, et al. **Fortschr Med** 1997 Jan 30;115(3):35–6 (Eng. Abstr.) **(Ger)**

[The modes of transmission of Helicobacter pylori infection] Tursi A, et al. **Recenti Prog Med** 1997 May;88(5):232–6 (56 ref.) (Eng. Abstr.) **(Ita)**

VETERINARY

Therapeutic immunization against Helicobacter mustelae in naturally infected ferrets [see comments] Cuenca R, et al. **Gastroenterology** 1996 Jun;110(6):1770–5. Comment in: Gastroenterology 1996 Jun;110(6):2003–6.

The pig as an ulcer model [letter; comment] Mall AS, et al. **Gastroenterology** 1997 Jul;113(1):366–7. Comment on: Gastroenterology 1996 Jul;111(1):19–27.

Demonstration of Helicobacter pylori-like organisms in the gastric mucosa of captive exotic carnivores. Jakob W, et al. **J Comp Pathol** 1997 Jan;116(1):21–33

Failure to isolate Helicobacter pylori from stray cats indicates that H. pylori in cats may be an anthroponosis--an animal infection with a human pathogen. El-Zaatari FA, et al. **J Med Microbiol** 1997 May;46(5):372–6

Scientific information document Helicobacter pylori [news] Tennant B. **J Small Anim Pract** 1996 Dec;37(12):609–10

Evaluation of various oral antimicrobial formulations for eradication of Helicobacter hepaticus. Foltz CJ, et al.
Lab Anim Sci 1996 Apr;46(2):193–7

The role of Helicobacter species in newly recognized gastrointestinal tract diseases of animals. Fox JG, et al.
Lab Anim Sci 1997 Jun;47(3):222–55 (261 ref.)

Diagnosing emerging bacterial infections: salmonellosis, campylobacteriosis, clostridial toxicosis, and helicobacteriosis. McDonough PL, et al.
Semin Vet Med Surg (Small Anim) 1996 Aug;11(3):187–97 (32 ref.)

Porcine gastric mucosa associated lymphoid tissue (MALT): stimulation by colonization with the gastric bacterial pathogen, Helicobacter pylori. Green WB, et al.
Vet Immunol Immunopathol 1997 May;56(1–2):119–31

Helicobacter mustelae-associated gastric adenocarcinoma in ferrets (Mustela putorius furo). Fox JG, et al.
Vet Pathol 1997 May;34(3):225–9

Gastric ulcer associated with a Helicobacter-like organism in a cougar (Felis concolor). Hill JE, et al. **Vet Pathol** 1997 Jan;34(1):50–1

Helicobacter pylori and stomach ulcers [letter] [see comments] Maloney A. **Vet Rec** 1996 Aug 17;139(7):172. Comment in: Vet Rec 1996 Aug 24;139(8):196.

Helicobacter pylori and stomach ulcers [letter; comment] Pike R, et al. **Vet Rec** 1996 Aug 24;139(8):196. Comment on: Vet Rec 1996 Aug 17;139(7):172.

Helicobacter pylori and stomach ulcers [letter; comment] Singleton P. **Vet Rec** 1996 Aug 24;139(8):196. Comment on: Vet Rec 1996 Aug 17;139(7):172.

Pathogenic role of gastric Helicobacter sp in domestic carnivores. Lecoindre P, et al. **Vet Res** 1997 May–Jun; 28(3):207–15 (34 ref.)

Occurrence and topographical mapping of gastric Helicobacter-like organisms and their association with histological changes in apparently healthy dogs and cats. Happonen I, et al. **Zentralbl Veterinarmed A** 1996 Jul; 43(5):305–15

[Helicobacter pylori: antibodies in sera of pigs and calves] Seidel KE, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov–Dec;109(11–12):434–9 (Eng. Abstr.) **(Ger)**

VIROLOGY

Study of transmission routes of Helicobacter pylori in relation to seroprevalence of hepatitis A virus. Furuta T, et al.
J Clin Microbiol 1997 Jul;35(7):1891–3

HELICOBACTER PYLORI

Occurrence and significance of Helicobacter pylori infection after gastric surgery. Bahnacy A, et al. **Acta Chir Hung** 1995–96;35(3–4):201–7

Imprint cytology in the diagnosis of Helicobacter pylori infection. Rey E, et al. **Acta Cytol** 1997 Jul–Aug; 41(4):1144–6

Helicobacter pylori: its role in ulcer disease and gastric

cancer and how to detect the infection. Go MF. **Acta Gastroenterol Latinoam** 1996;26(1):45–9
NSAID–induced ulcers. Go MF. **Acta Gastroenterol Latinoam** 1996;26(2):115–8
Molecular pathogenesis of H. pylori disease. Go MF. **Acta Gastroenterol Latinoam** 1996;26(1):39–43
Another therapeutic schedule in eradication of Helicobacter pylori. Včev A, et al. **Acta Med Croatica** 1997;51(2):95–9
Symptomatology of Helicobacter pylori infection in children. Blecker U, et al. **Acta Paediatr** 1996 Oct;85(10):1156–8
Recurrent abdominal pain and Helicobacter pylori in a community–based sample of London children [see comments] O'Donohoe JM, et al. **Acta Paediatr** 1996 Aug; 85(8):961–4. Comment in: Acta Paediatr 1997 Jun;86(6):671–3.
Helicobacter pylori and gastroduodenal diseases: a minor revolution for radiologists [comment] [see comments] Gelfand DW, et al. **AJR Am J Roentgenol** 1997 Jun; 168(6):1421–2. Comment on: AJR Am J Roentgenol 1997 Jun;168(6):1403. Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1415–20.
Helicobacter pylori and peptic ulcer disease: evolution to revolution to resolution [see comments] Pattison CP, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1415–20 (70 ref.) . Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1403. Comment in: AJR Am J Roentgenol 1997 Jun;168(6):1421–2.
From red goggles to Helicobacter pylori [editorial; comment] Rogers LF. **AJR Am J Roentgenol** 1997 Jun;168(6):1403. Comment on: AJR Am J Roentgenol 1997 Jun;168(6):1415–20. Comment on: AJR Am J Roentgenol 1997 Jun;168(6):1421–2.
Management of Helicobacter pylori Infection. Proceedings from a 3rd roundtable meeting. Ascot, England, 27–28 June 1996. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:1–115
Antral gastrin cell hyperfunction and Helicobacter pylori infection. Annibale B, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):607–15
Review article: is Helicobacter pylori transmitted by the gastro–oral route? Axon AT. **Aliment Pharmacol Ther** 1995 Dec;9(6):585–8 (33 ref.)
Ranitidine bismuth citrate and clarithromycin twice daily in the eradication of Helicobacter pylori. Axon AT, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):81–7
Clinical economics review: Helicobacter pylori–associated peptic ulcer disease. Bodger K, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):273–82 (52 ref.)
Successful low–dose amoxycillin, metronidazole and omeprazole combination therapy in a population with a high frequency of metronidazole–resistant Helicobacter pylori. Breuer T, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):523–7
Helicobacter pylori eradication using one–week low–dose lansoprazole plus amoxycillin and either clarithromycin or azithromycin. Cammarota G, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):997–1000
Effects of ranitidine bismuth citrate on gastric acid secretion and gastrin release in subjects with and without Helicobacter pylori infection. Ciociola AA, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):905–12
Only four days of quadruple therapy can effectively cure Helicobacter pylori infection. De Boer WA, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):633–8
One–day intensified lansoprazole–quadruple therapy for cure of Helicobacter pylori infection. de Boer WA, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):109–12
Cisapride in functional dyspepsia in general practice. A placebo–controlled, randomized, double–blind study. de Groot GH, et al. **Aliment Pharmacol Ther** 1997 Feb; 11(1):193–9
Omeprazole–amoxycillin versus omeprazole–amoxycillin–clarithromycin in the eradication of Helicobacter pylori. Delchier JC, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):263–8
Effect of proton pump inhibitors on the detection of Helicobacter pylori in gastric biopsies. Dickey W, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):289–93
Outcomes research in Helicobacter pylori infection. Fendrick AM. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:95–101 (19 ref.)
Helicobacter pylori eradication in clinical practice: one–week low–dose triple therapy is preferable to classical bismuth based triple therapy. Goddard AF, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1009–13
Lansoprazole, clarithromycin and metronidazole for seven days in Helicobacter pylori infection. Harris AW, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1005–8
Recurrence of duodenal ulcer after Helicobacter pylori eradication is related to high acid output. Harris AW, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):331–4
Comparison of two low–dose one–week triple therapy regimens with and without metronidazole for cure of H. pylori infection. Jaup BH, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):275–7
Feasibility of analysing [13C]urea breath tests for Helicobacter pylori by gas chromatography–mass spectrometry in the selected ion monitoring mode. Kasho VN, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):985–95
Comparison of ranitidine and lansoprazole in short–term low–dose triple therapy for Helicobacter pylori infection. Kihira K, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):511–4
Doubling the omeprazole dose (40 mg b.d. vs. 20 mg b.d.) in dual therapy with amoxycillin increases the cure rate of Helicobacter pylori infection in duodenal ulcer patients. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):515–22
One–week low–dose triple therapy for Helicobacter pylori is sufficient for relief from symptoms and healing of duodenal ulcers. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):89–93
Efficacy and tolerability of a one–week triple therapy consisting of pantoprazole, clarithromycin and amoxycillin for cure of Helicobacter pylori infection in patients with duodenal ulcer. Labenz J, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):95–100
Review article: symptom improvement through eradication of Helicobacter pylori in patients with non–ulcer dyspepsia. Laheij RJ, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):843–50 (89 ref.)
Randomized comparison of differing periods of twice–a–day triple therapy for the eradication of Helicobacter pylori. Laine L, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):1029–33
Prospective evaluation of the macrolide antibiotic dirithromycin for the treatment of Helicobacter pylori. Laine L, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):269–73
The actions of bismuth in the treatment of Helicobacter pylori infection. Lambert JR, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:27–33 (62 ref.)
Helicobacter pylori eradication using a 7–day regimen of low–dose clarithromycin, lansoprazole and amoxycillin. Lim AG, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):537–40
The long–term management of patients with bleeding duodenal ulcers. McAlindon ME, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):505–10
High–dose proton pump inhibitor plus amoxycillin for the treatment or retreatment of Helicobacter pylori infection. Malaty H, et al. **Aliment Pharmacol Ther** 1996 Dec; 10(6):1001–4
The future of Helicobacter pylori eradication: a personal perspective. Marshall BJ. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:109–15 (30 ref.)
An increasing dose of omeprazole combined with amoxycillin cures Helicobacter pylori infection more effectively. Miehlke S, et al. **Aliment Pharmacol Ther** 1997 Apr; 11(2):323–9
One week triple therapy with omeprazole, clarithromycin and tinidazole for Helicobacter pylori: differing efficacy in previously treated and untreated patients. Moshkowitz M, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1015–9
Review article: clinical aspects of Helicobacter pylori eradication therapy in peptic ulcer disease. Penston JG. **Aliment Pharmacol Ther** 1996 Aug;10(4):469–86 (200 ref.)
The role of antisecretory drugs in the treatment of Helicobacter pylori infection. Peterson WL. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:21–5 (36 ref.)
Ranitidine bismuth citrate plus clarithromycin is effective for healing duodenal ulcers, eradicating H. pylori and reducing ulcer recurrence. RBC H. pylori Study Group [see comments] Peterson WL, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):251–61. Comment in: Aliment Pharmacol Ther 1996 Dec;10(6):1035.
Cure of Helicobacter pylori infection in the elderly: effects of eradication on gastritis and serological markers. Pilotto A, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1021–7
Pharmacokinetic and pharmacodynamic interactions between omeprazole and amoxycillin in Helicobacter pylori–positive healthy subjects. Pommerien W, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):295–301
Dose–response of omeprazole combined with amoxycillin on duodenal ulcer healing and eradication of Helicobacter pylori. Pommerien W, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):303–8
The treatment of Helicobacter pylori infection. Pounder RE, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:35–41 (35 ref.)
Furazolidone, amoxycillin, bismuth triple therapy for Helicobacter pylori infection. Segura AM, et al. **Aliment Pharmacol Ther** 1997 Jun;11(3):529–32
Randomized study comparing omeprazole plus amoxycillin versus omeprazole plus clarithromycin for eradication of Helicobacter pylori. Spinzi G, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):317–22
Immediate repeat course of amoxycillin, metronidazole and omeprazole to eradicate Helicobacter pylori. Ström M, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):311–6
Low–dose omeprazole plus clarithromycin and either tinidazole or amoxycillin for Helicobacter pylori infection. Tursi A, et al. **Aliment Pharmacol Ther** 1996 Jun; 10(3):285–8
Low cure rate of Helicobacter pylori infection with omeprazole and furazolidone dual therapy for one week. Van Zwet AA, et al. **Aliment Pharmacol Ther** 1997 Jun; 11(3):533–5
A one–week quadruple eradication regimen for Helicobacter pylori in routine clinical practice. Vautier G, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):107–8
A seven–day Helicobacter pylori treatment regimen using clarithromycin, omeprazole and tripotassium dicitrato bismuthate. Weldon MJ, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):279–83
Metronidazole, ranitidine and clarithromycin combination for treatment of Helicobacter pylori infection (modified Bazzoli's triple therapy). Yousfi MM, et al. **Aliment Pharmacol Ther** 1996 Feb;10(1):119–22
Treatment strategies for Helicobacter pylori infection. Damianos AJ, et al. **Am Fam Physician** 1997 Jun; 55(8):2765–74, 2784–6 (34 ref.)
Vitamin E and carotenoids in gastric biopsies: the relation to plasma concentrations in patients with and without Helicobacter pylori gastritis. Sanderson MJ, et al. **Am J Clin Nutr** 1997 Jan;65(1):101–6
Enhanced cellular proliferation and p53 accumulation in gastric mucosa chronically infected with Helicobacter pylori. Hibi K, et al. **Am J Clin Pathol** 1997 Jul;108(1):26–34
Helicobacter pylori and duodenal ulcer: evidence for a histamine pathways–involving link. Bechi P, et al. **Am J Gastroenterol** 1996 Nov;91(11):2338–43
The prevalence of Helicobacter pylori infection among inhabitants and healthy employees of institutes for the intellectually disabled. Böhmer CJ, et al. **Am J Gastroenterol** 1997 Jun;92(6):1000–4
Re: W. de Boer: Gastric outlet obstruction and Helicobacter pylori [letter] Borody TJ, et al. **Am J Gastroenterol** 1997 Sep;92(9):1576–7
Evaluation of whole blood antibody kit to detect active Helicobacter pylori infection. Borody TJ, et al. **Am J Gastroenterol** 1996 Dec;91(12):2509–12
Helicobacter pylori infection and blood groups [letter; comment] Carneiro F, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2646–7. Comment on: Am J Gastroenterol 1996 Jan;91(1):101–4.
Does smoking predispose to peptic ulcer relapse after eradication of Helicobacter pylori? Chan FK, et al. **Am J Gastroenterol** 1997 Mar;92(3):442–5
Bismuth subsalicylate instead of metronidazole with lansoprazole and clarithromycin for Helicobacter pylori infection: a randomized trial. Chey WD, et al. **Am J Gastroenterol** 1997 Sep;92(9):1483–6
Omeprazole and clarithromycin with and without metronidazole for the eradication of Helicobacter pylori. Chiba N. **Am J Gastroenterol** 1996 Oct;91(10):2139–43
Diagnose and treat Helicobacter pylori as any other infectious disease [letter; comment] de Boer WA, et al. **Am J Gastroenterol** 1996 Oct;91(10):2255–6. Comment on: Am J Gastroenterol 1996 Feb;91(2):188–90. Comment on: Am J Gastroenterol 1996 Feb;91(2):228–32.
Gastric outlet obstruction and Helicobacter pylori [letter; comment] de Boer WA. **Am J Gastroenterol** 1997 Feb; 92(2):362–3. Comment on: Am J Gastroenterol 1996 May;91(5):987–90.
Re: short–term treatment with lansoprazole [letter; comment] Dhar A, et al. **Am J Gastroenterol** 1996 Oct;91(10):2251. Comment on: Am J Gastroenterol 1995 Oct;90(10):1824–8.
Effective 2–wk therapy for Helicobacter pylori disease in children. Dohil R, et al. **Am J Gastroenterol** 1997 Feb; 92(2):244–7
Percentage changes in serum pepsinogens are useful as indices of eradication of Helicobacter pylori. Furuta T, et al. **Am J Gastroenterol** 1997 Jan;92(1):84–8
Nonsteroidal anti–inflammatory drugs, Helicobacter pylori, and ulcers: where we stand. Graham DY. **Am J Gastroenterol** 1996 Oct;91(10):2080–6 (92 ref.)
Helicobacter pylori and portal hypertensive gastropathy [letter; comment] Guslandi M. **Am J Gastroenterol** 1997 Apr;92(4):723. Comment on: Am J Gastroenterol 1996 Jul;91(7):1400–6.
Peptic ulcer disease: defining the treatment strategies in the era of Helicobacter pylori. Hunt RH. **Am J Gastroenterol** 1997 Apr;92(4 Suppl):36S–40S; discussion 40S–43S (56 ref.)
Incorrect gold standard in diagnostic tests for Helicobacter pylori [letter; comment] Jamart J. **Am J Gastroenterol** 1997 Jun;92(6):1071. Comment on: Am J Gastroenterol 1996 Oct;91(10):2125–9.
Testing for Helicobacter pylori infection after antibiotic treatment [editorial; comment] Katelaris PH, et al. **Am J Gastroenterol** 1997 Aug;92(8):1245–7. Comment on: Am J Gastroenterol 1997 Aug;92(8):1268–74.
Anti–Helicobacter pylori treatment in bleeding ulcers: randomized controlled trial comparing 2–day versus 7–day bismuth quadruple therapy. Kung NN, et al. **Am J Gastroenterol** 1997 Mar;92(3):438–41
Efficacy of omeprazole one year after cure of Helicobacter pylori infection in duodenal ulcer patients [see comments] Labenz J, et al. **Am J Gastroenterol** 1997 Apr;92(4):576–81 . Comment in: Am J Gastroenterol 1997 Apr;92(4):555–6.
Triple therapy with ranitidine or lansoprazole in the treatment of Helicobacter pylori–associated duodenal ulcer. Lazzaroni M, et al. **Am J Gastroenterol** 1997 Apr; 92(4):649–52
A comparison between omeprazole–based triple therapy and bismuth–based triple therapy for the treatment of Helicobacter pylori infection: a prospective randomized 1–yr follow–up study. Lerang F, et al. **Am J Gastroenterol** 1997 Apr;92(4):653–8
Highly effective twice–daily triple therapies for Helicobacter pylori infection and peptic ulcer disease: does in vitro metronidazole resistance have any clinical relevance? Lerang F, et al. **Am J Gastroenterol** 1997 Feb;92(2):248–53
Helicobacter pylori infection in Eastern Europe: seroprevalence in the Polish population of Lower Silesia.

Matysiak-Budnik T, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2513-5

Point prevalence of peptic ulcer and gastric histology in healthy Indians with Helicobacter pylori infection. Misra V, et al. **Am J Gastroenterol** 1997 Sep;92(9):1487-91

Gastric juice urease activity as a diagnostic test for Helicobacter pylori infection. Mokuolu AO, et al. **Am J Gastroenterol** 1997 Apr;92(4):644-8

Etiological involvement of Helicobacter pylori in "reflux" gastritis after gastrectomy. Nagahata Y, et al. **Am J Gastroenterol** 1996 Oct;91(10):2130-4

Relation of lactoferrin levels in gastric mucosa with Helicobacter pylori infection and with the degree of gastric inflammation. Nakao K, et al. **Am J Gastroenterol** 1997 Jun;92(6):1005-11

Do ulcers burn out or burn on? Managing duodenal ulcer diathesis in the Helicobacter pylori era. Ad Hoc Committee on FDA-Related Matters. Neil GA. **Am J Gastroenterol** 1997 Mar;92(3):387-93 (59 ref.)

13C-urea breath test for Helicobacter pylori: a second look analysis [letter; comment] Pattison CP, et al. **Am J Gastroenterol** 1996 Nov;91(11):2447-9. Comment on: Am J Gastroenterol 1996 Apr;91(4):690-4.

Ulcerogenesis: integrating the roles of Helicobacter pylori and acid secretion in duodenal ulcer. Peura DA. **Am J Gastroenterol** 1997 Apr;92(4 Suppl):8S-13S; discussion 13S-16S (63 ref.)

Helicobacter pylori, hyperammonemia, and hepatic encephalopathy: is there a correlation? [letter] Rinaldi V, et al. **Am J Gastroenterol** 1997 Apr;92(4):723-4

Accuracy of invasive and noninvasive tests to diagnose Helicobacter pylori infection after antibiotic treatment [see comments] Rollán A, et al. **Am J Gastroenterol** 1997 Aug; 92(8):1268-74. Comment in: Am J Gastroenterol 1997 Aug;92(8):1245-7.

Helicobacter pylori and the birth cohort effect: evidence of a continuous decrease of infection rates in childhood. Roosendaal R, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1480-2

Risk of infection with Helicobacter pylori and hepatitis A virus in different groups of hospital workers. Rudi J, et al. **Am J Gastroenterol** 1997 Feb;92(2):258-62

Guilty as charged: bugs and drugs in gastric ulcer. Sontag SJ. **Am J Gastroenterol** 1997 Aug;92(8):1255-61 (76 ref.)

Parietal cell mass, hydrochloric acid secretion, and Helicobacter pylori [letter; comment] Testino G. **Am J Gastroenterol** 1997 Jun;92(6):1070-1. Comment on: Am J Gastroenterol 1996 Oct;91(10):2114-9.

Acid secretion, response to omeprazole, and Helicobacter pylori status [editorial; comment] Treiber G, et al. **Am J Gastroenterol** 1997 Apr;92(4):555-6. Comment on: Am J Gastroenterol 1997 Apr;92(4):576-81.

Helicobacter pylori infection and blood group antigens: lack of clinical association. Umlauft F, et al. **Am J Gastroenterol** 1996 Oct;91(10):2135-8

Therapeutic options after failed Helicobacter pylori eradication therapy. van der Hulst RW, et al. **Am J Gastroenterol** 1996 Nov;91(11):2333-7

Helicobacter pylori and acid peptic disorders of the esophagus: is it conceivable? Vicari J, et al. **Am J Gastroenterol** 1997 Jul;92(7):1097-102 (63 ref.)

Mucosa-associated lymphoid tissue (MALT) in Barrett's esophagus: prospective evaluation and association with gastric MALT, MALT lymphoma, and Helicobacter pylori. Weston AP, et al. **Am J Gastroenterol** 1997 May; 92(5):800-4

Comparison of agar gel (CLOtest) or reagent strip (PyloriTek) rapid urease tests for detection of Helicobacter pylori infection. Yousfi MM, et al. **Am J Gastroenterol** 1997 Jun;92(6):997-9

H. pylori treatment recognized by FDA [news] **Am J Health Syst Pharm** 1996 Jun 1;53(11):1229

Infections transmitted by endoscopy: an international problem [editorial; comment] Favero MS, et al. **Am J Infect Control** 1996 Oct;24(5):343-5. Comment on: Am J Infect Control 1996 Oct;24(5):396-401.

Eradication of Helicobacter pylori in patients with end-stage renal disease under dialysis treatment. Tamura H, et al. **Am J Kidney Dis** 1997 Jan;29(1):86-90

Pathophysiology of Helicobacter pylori-induced gastritis and peptic ulcer disease. Peek RM Jr, et al. **Am J Med** 1997 Feb;102(2):200-7 (93 ref.)

Helicobacter pylori and uremic gastritis: a histopathologic study and a correlation with endoscopic and bacteriologic findings. Moustafa FE, et al. **Am J Nephrol** 1997; 17(2):165-71

Socioeconomic factors in Helicobacter pylori infection among Danish adults. Rosenstock SJ, et al. **Am J Public Health** 1996 Nov;86(11):1539-44

Edgar J. Poth Memorial Lecture. Is Helicobacter pylori a myth or the missing link? Schwesinger WH. **Am J Surg** 1996 Nov;172(5):411-7

Detection methods of Helicobacter pylori: accuracy and costs. Onders RP. **Am Surg** 1997 Aug;63(8):665-8

Long-term quality of life outcome after treatment for Helicobacter pylori gastric infection. Velanovich V. **Am Surg** 1997 Jun;63(6):551-4

Management of Helicobacter pylori-positive patients with dyspepsia [letter; comment] Schwartz DN. **Ann Intern Med** 1997 Aug 1;127(3):244. Comment on: Ann Intern Med 1997 Feb 15;126(4):280-91.

Regression of gastric lymphoma with therapy for Helicobacter pylori infection [letter] Seymour JF, et al. **Ann Intern Med** 1997 Aug 1;127(3):247

Clarithromycin-induced fever in a patient with Helicobacter pylori gastritis [letter] Kadayifçi A, et al. **Ann Pharmacother** 1997 Jun;31(6):788

Hunterian peptic ulcers and Helicobacter pylori. Walker MM, et al. **Ann R Coll Surg Engl** 1997 Sep;79(5):368-71

Helicobacter pylori. Seifrit B. **AORN J** 1997 Mar; 65(3):614-6, 619-20 (36 ref.)

Eradication of Helicobacter pylori as the only successful treatment in rosacea [letter] Kolibášová K, et al. **Arch Dermatol** 1996 Nov;132(11):1393

Helicobacter pylori infection and growth delay in older children. Perri F, et al. **Arch Dis Child** 1997 Jul;77(1):46-9

One week treatment for Helicobacter pylori infection. Walsh D, et al. **Arch Dis Child** 1997 Apr;76(4):352-5

Antimicrobial management of Helicobacter pylori-associated gastrointestinal tract disease. Guay DR, et al. **Arch Fam Med** 1997 Mar-Apr;6(2):173-80 (00 ref.)

Lack of evidence for an association between Helicobacter pylori infection and the anorexia of aging [letter; comment] Howden CW. **Arch Intern Med** 1997 Aug 11-25; 157(15):1771-3. Comment on: Arch Intern Med 1997 Feb 10;157(3):269-72.

Helicobacter pylori infection and anorexia of aging [see comments] Portnoi VA. **Arch Intern Med** 1997 Feb 10; 157(3):269-72. Comment in: Arch Intern Med 1997 Aug 11-25;157(15):1771-3.

Diagnosis and treatment of Helicobacter pylori infection among California Medicare patients. Roll J, et al. **Arch Intern Med** 1997 May 12;157(9):994-8

Pharmacoeconomic comparison of treatments for the eradication of Helicobacter pylori [see comments] Taylor JL, et al. **Arch Intern Med** 1997 Jan 13;157(1):87-97. Comment in: ACP J Club 1997 Jul-Aug;127(1):22.

Pathological case of the month. Helicobacter pylori gastritis. Shetty AK, et al. **Arch Pediatr Adolesc Med** 1997 Aug; 151(8):855-6

Efficacy of ebrotidine and ranitidine combined with amoxicillin and metronidazole in the eradication of Helicobacter pylori in patients with duodenal ulcer. Popiela T, et al. **Arzneimittelforschung** 1997 Apr;47(4A):573-7

Omeprazole, amoxicillin and bismuth for peptic ulcer healing and Helicobacter pylori eradication. Treiber G, et al. **Arzneimittelforschung** 1997 Jan;47(1):47-50

Prevalence of Helicobacter pylori infection in different ethnic groups in New Zealand children and adults. Fraser AG, et al. **Aust N Z J Med** 1996 Oct;26(5):646-51

Ethnicity as a risk factor for Helicobacter pylori infection and gastric cancer: environment, genetics, or both? [editorial] Talley NJ, et al. **Aust N Z J Med** 1996 Oct; 26(5):628-31

37 kBq 14C-urea breath test and gastric biopsy analyses of H. pylori infection. Allardyce RA, et al. **Aust N Z J Surg** 1997 Jan;67(1):31-4

Peptic disease: can we afford current management? Fletcher DR. **Aust N Z J Surg** 1997 Feb-Mar;67(2-3):75-80 (39 ref.)

The microbiology of Helicobacter pylori. Hill M. **Biomed Pharmacother** 1997;51(4):161-3

Helicobacter pylori infection and genetic polymorphisms for cancer-related genes in gastric carcinogenesis. Kato S, et al. **Biomed Pharmacother** 1997;51(4):145-9

Helicobacter pylori and atrophic gastritis. Kuipers EJ, et al. **Biomed Pharmacother** 1997;51(4):150-5 (67 ref.)

Is the study of human cancer-associated factors, the best or the only model for human carcinogenesis research? I. The question of Helicobacter pylori infection as an accused human gastric carcinogen (editorial). Mathé G. **Biomed Pharmacother** 1997;51(1):1-4 (36 ref.)

Treatment of Helicobacter pylori infection. Reed PI, et al. **Biomed Pharmacother** 1997;51(1):13-21 (68 ref.)

Eradication of Helicobacter pylori and regression of B-cell lymphoma. Vanagunas A. **Biomed Pharmacother** 1997; 51(4):156-60 (32 ref.)

Helicobacter gastroduodenitis: a serious infectious disease [editorial] Axon A, et al. **BMJ** 1997 May 17; 314(7092):1430-1

Randomised double blind controlled study of recurrence of gastric ulcer after treatment for eradication of Helicobacter pylori infection. Axon AT, et al. **BMJ** 1997 Feb 22; 314(7080):565-8

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. A crucial reference just missed being cited [letter; comment] Bateson MC. **BMJ** 1997 Jun 7;314(7095):1690. Comment on: BMJ 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Likelihood ratios should be routinely reported [letter; comment] Dawes M, et al. **BMJ** 1997 Jun 7;314(7095):1690; discussion 1690-1. Comment on: BMJ 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Test needs full evaluation in primary care [letter; comment] Delaney B, et al. **BMJ** 1997 Jun 7;314(7095):1689-90; discussion 1690-1. Comment on: BMJ 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Conflicting results from the Helisal test [letter; comment] Duggan A, et al. **BMJ** 1997 Jun 7;314(7095):1688-9; discussion 1690-1. Comment on: BMJ 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Likelihood ratios provide more information with little effort [letter; comment] Hawke C. **BMJ** 1997 Jun 7;314(7095):1690; discussion 1690-1. Comment on: BMJ 1997 Jan 11;314(7074):119.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Endoscopy of only those who are positive for H pylori could miss other diagnoses [letter; comment] Johnston BT. **BMJ** 1997 Jun 7; 314(7095):1690; discussion 1690-1. Comment on: BMJ 1997 Jan 11;314(7074):119.

Helicobacter pylori infection and coagulation in healthy people. Parente F, et al. **BMJ** 1997 May 3;314(7090):1318-9

Testing to check success of treatment to eradicate H pylori [letter; comment] Phull PS, et al. **BMJ** 1996 Sep 21; 313(7059):752. Comment on: BMJ 1996 May 25;312(7042):1361-2. Comment on: BMJ 1996 May 25;312(7042):1362.

Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Assessment lacked certain considerations [letter; comment] Robinson RJ, et al. **BMJ** 1997 Jun 7;314(7095):1689; discussion 1690-1. Comment on: BMJ 1997 Jan 11;314(7074):119.

Prospective study of Helicobacter pylori seropositivity and cardiovascular diseases in a general elderly population. Strandberg TE, et al. **BMJ** 1997 May 3;314(7090):1317-8

Lansoprazole plus clarithromycin: evaluation of a new dual therapy for Helicobacter pylori eradication. Phull PS, et al. **Br J Clin Pract** 1996 Oct-Nov;50(7):360-2

The use of a near patient serological test for H pylori [letter] Burton C. **Br J Gen Pract** 1996 Aug;46(409):492

Examining the value of eradication therapy for H. pylori [letter; comment] Delaney B, et al. **Br J Gen Pract** 1996 Aug;46(409):491-2. Comment on: Br J Gen Pract 1996 Mar;46(404):177-9.

Do general practitioners inform patients of the association between Helicobactor pylori infection and gastric cancer prior to determining serostatus? Parry JM, et al. **Br J Gen Pract** 1997 May;47(418):311-2

Helicobacter pylori eradication [letter] Wilcock M. **Br J Gen Pract** 1997 Aug;47(421):529

Helicobacter pylori and gastric cancer. McFarlane GA, et al. **Br J Surg** 1997 Sep;84(9):1190-9 (163 ref.)

High prevalence of Helicobacter pylori infection in duodenal ulcer perforations not caused by non-steroidal anti-inflammatory drugs [letter; comment] Thulasimani M, et al. **Br J Surg** 1997 Jul;84(7):1029-30. Comment on: Br J Surg 1996 Dec;83(12):1779-81.

Helicobacter pylori, gastric cancer and gastric MALT lymphoma. Williams CN. **Can J Gastroenterol** 1996 Oct; 10(6):359-60 (13 ref.)

Helicobacter pylori: new developments and treatments. Veldhuyzen van Zanten SJ, et al. **Can Med Assoc J** 1997 Jun 1;156(11):1565-74 (112 ref.)

Helicobacter pylori and gastric cancer: state of the art. Correa P. **Cancer Epidemiol Biomarkers Prev** 1996 Jun; 5(6):477-81

Comparison of two enzyme-linked immunosorbent assay tests for diagnosis of Helicobacter pylori infection in China. Groves FD, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):551-2

Effect of Helicobacter pylori eradication on subsequent development of cancer after endoscopic resection of early gastric cancer. Uemura N, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Aug;6(8):639-42

Helicobacter pylori extract stimulates inflammatory nitric oxide production. Tsuji S, et al. **Cancer Lett** 1996 Nov 29;108(2):195-200

Helicobacter pylori infection is related to atheroma in patients undergoing coronary angiography. Ossei-Gerning N, et al. **Cardiovasc Res** 1997 Jul;35(1):120-4

Validity of the 13-C-urea breath test for the diagnosis of Helicobacter pylori infection. Kajiwara M, et al. **Chem Pharm Bull (Tokyo)** 1997 Apr;45(4):741-3

The accuracy of the rapid urease test and 13C-urea breath test in the diagnosis of Helicobacter pylori infection. Ho AS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec; 58(6):400-6

Current treatment of Helicobacter pylori infection and peptic ulcer disease. Cleghorn G. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 May-Jun;38(3):178-82

Helicobacter pylori infection and duodenal ulcer in children and adolescents. off Tsai CJ, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov-Dec;37(6):415-9

H pylori 1997: testing and treatment options. Falk GW. **Cleve Clin J Med** 1997 Apr;64(4):187-92 (19 ref.)

Why guidelines are required for the treatment of Helicobacter pylori infection in children. Sherman PM, et al. **Clin Invest Med** 1996 Oct;19(5):362-7 (25 ref.)

13C-urea breath test for Helicobacter pylori: cut-off point determination by cluster analysis. Mion F, et al. **Clin Sci (Colch)** 1997 Jul;93(1):3-6

Association of antral mucosal levels of interleukin 8 and reactive oxygen radicals in patients infected with Helicobacter pylori. Zhang QB, et al. **Clin Sci (Colch)** 1997 Jan;92(1):69-73

Pathogenesis and treatment of acid peptic disorders: comparison of proton pump inhibitors with other antiulcer agents. Sanders SW. **Clin Ther** 1996 Jan-Feb;18(1):2-34; discussion 1 (178 ref.)

Helicobacter pylori and peptic ulcer disease: issues for

primary care providers. Taniguchi DK, et al. **Compr Ther** 1996 Jul;22(7):434–9 (20 ref.)

Risk factors for upper gastrointestinal bleeding in intensive care unit patients: role of helicobacter pylori. Federal Hyperimmune Immunoglobulin Therapy Study Group. Ellison RT, et al. **Crit Care Med** 1996 Dec;24(12):1974–81

Schönlein–Henoch purpura associated with gastric Helicobacter pylori infection [letter] Machet L, et al. **Dermatology** 1997;194(1):86

Helicobacter pylori: the versatile pathogen. McGuigan JE. **Dig Dis** 1996 Sep–Oct;14(5):289–303 (119 ref.)

Urticaria during triple therapy for Helicobacter pylori infection: clinical implications. Delpre G, et al. **Dig Dis Sci** 1997 Apr;42(4):728–30

H. pylori infection in HIV-positive patients. A serohistological study. Fabris P, et al. **Dig Dis Sci** 1997 Feb;42(2):289–92

Changes in gastrin and serum pepsinogens in monitoring of Helicobacter pylori response to therapy. Pérez–Paramo M, et al. **Dig Dis Sci** 1997 Aug;42(8):1734–40

Role of Helicobacter pylori infection on upper gastrointestinal bleeding in the elderly: a case–control study. Pilotto A, et al. **Dig Dis Sci** 1997 Mar;42(3):586–91

Helicobacter pylori infection and gastric cancer. A nested case–control study in a rural area of Japan. Watanabe Y, et al. **Dig Dis Sci** 1997 Jul;42(7):1383–7

Helicobacter pylori infection has no role in the pathogenesis of reflux esophagitis. Werdmuller BF, et al. **Dig Dis Sci** 1997 Jan;42(1):103–5

Recurrence of Helicobacter pylori infection after successful eradication: nature and possible causes. Xia HX, et al. **Dig Dis Sci** 1997 Sep;42(9):1821–34 (184 ref.)

Clinical application of gastric histology to monitor treatment of dual therapy in H. pylori eradication. Yang HB, et al. **Dig Dis Sci** 1997 Sep;42(9):1835–40

Validity of a novel biopsy urease test (HUT) and a simplified 13C–urea breath test for diagnosis of Helicobacter pylori infection and estimation of the severity of gastritis. Labenz J, et al. **Digestion** 1996 Nov–Dec;57(6):391–7

Prevalence of Helicobacter pylori infection in 190 control subjects and in 236 patients with gastroesophageal reflux, erosive esophagitis or Barrett's esophagus. Csendes A, et al. **Dis Esophagus** 1997 Jan;10(1):38–42

Helicobacter pylori testing kits. **Drug Ther Bull** 1997 Mar; 35(3):23–4 (19 ref.)

Treatment of peptic ulcer in the elderly. Proton pump inhibitors and histamine H2 receptor antagonists. Lazzaroni M, et al. **Drugs Aging** 1996 Oct;9(4):251–61 (72 ref.)

Frequency of Helicobacter pylori in gastroscopic biopsy of Ugandan Africans. Wabinga HR. **East Afr Med J** 1996 Oct; 73(10):691–3

Reflux esophagitis: a complication of Helicobacter pylori eradication therapy? [letter] Saccà N, et al. **Endoscopy** 1997 Mar;29(3):224

Implications of Helicobacter pylori serological titer for the histological severity of antral gastritis. Sheu BS, et al. **Endoscopy** 1997 Jan;29(1):27–30

Helicobacter pylori, gastritis and non–ulcer dyspepsia in Ethiopian patients. Tsega E, et al. **Ethiop Med J** 1996 Apr; 34(2):65–71

Gastric cancer and Helicobacter pylori. Muñoz N. **Eur J Cancer Prev** 1996 Oct;5(5):405–8 (33 ref.)

Helicobacter pylori and gastric cancer. Reed PI. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:49–55

Future directions in research of endogenous production on N–nitroso compounds. Stockbrügger RW. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:67–9 (21 ref.)

The transmission of Helicobacter pylori: which theory fits the facts? [editorial; comment] Axon AT. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):1–2. Comment on: Eur J Gastroenterol Hepatol 1996 Jan;8(1):11–4.

Triple therapy as a cure for Helicobacter pylori infection. Bardhan KD. **Eur J Gastroenterol Hepatol** 1996 Oct;8 Suppl 1:S27–30 (36 ref.)

Cure of gastric ulcer disease after cure of Helicobacter pylori infection—German Gastric Ulcer Study [see comments] Bayerdörffer E, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):343–9. Comment in: Eur J Gastroenterol Hepatol 1996 Apr;8(4):333–4.

Prevalence of and risk factors for Helicobacter pylori infection in the western part of Germany. Breuer T, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):47–52

Helicobacter pylori eradication—a surrogate marker for duodenal ulcer healing [comment] Buckley M, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):415–6. Comment on: Eur J Gastroenterol Hepatol 1996 May;8(5):421–3.

Short–term low–dose triple therapy with azithromycin, metronidazole and lansoprazole appears highly effective for the eradication of Helicobacter pylori. Caselli M, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):45–8

Proposal for use of a standard side effect scoring system in studies exploring Helicobacter pylori treatment regimens. de Boer WA, et al. **Eur J Gastroenterol Hepatol** 1996 Jul; 8(7):641–3

Economics of Helicobacter pylori eradication therapy. Deltenre MA. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S23–6; discussion S27–9 (22 ref.)

Ranitidine in a twice daily triple–therapy regimen for the eradication of Helicobacter pylori [see comments] Drake IM, et al. **Eur J Gastroenterol Hepatol** 1996 Dec; 8(12):1169–73. Comment in: Eur J Gastroenterol Hepatol 1997 May;9(5):544.

Extraintestinal pathology associated with Helicobacter infection [editorial] Gasbarrini A, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):231–3 (29 ref.)

Reinfection and duodenal ulcer relapse in south–east Asian patients following successful Helicobacter pylori eradication: results of a 2–year follow–up. Goh KL, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1157–60

Helicobacter pylori eradication with short–term therapy leads to duodenal ulcer healing without the need for continued acid suppression therapy [see comments] Goh KL, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):421–3. Comment in: Eur J Gastroenterol Hepatol 1996 May;8(5):415–6.

Helicobacter pylori: clarifying the issues and curing the disease. Howden CW. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):389–92

Consensus or confusion: a review of existing national guidelines on Helicobacter pylori–related disease. Lee J, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):527–31 (37 ref.)

Helicobacter pylori and acid secretion: where are we now? [comment] McColl KE. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):333–5 (20 ref.). Comment on: Eur J Gastroenterol Hepatol 1997 Apr;9(4):361–5.

Current European concepts in the management of Helicobacter pylori infection—the Maastricht Consensus Report. The European Helicobacter Pylori Study Group (EHPSG). Malfertheiner P, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):1–2 (0 ref.)

Helicobacter pylori infection in a healthy population in Spain. Martín–de–Argila C, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1165–8

The most important diagnostic modalities for Helicobacter pylori, now and in the future. Mégraud F. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S13–5; discussion S27–9 (4 ref.)

Frontiers in Helicobacter pylori research: pathogenesis, host response, vaccine development and new therapeutic approaches. Michetti P, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):717–22

Helicobacter pylori reinfection is rare in peptic ulcer patients cured by antimicrobial therapy. Miehlke S, et al. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1161–3

Management of Helicobacter pylori–related disorders. Misiewicz JJ. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S17–20; discussion S20–1, S27–9 (12 ref.)

Helicobacter pylori infection and upper gastrointestinal patholgy in a British immigrant Indian community [see comments] Seery JP, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):191–4. Comment in: Eur J Gastroenterol Hepatol 1997 Jun;9(6):647–8.

Reflections on gastric ulcer disease [comment] Tytgat GN. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):333–4. Comment on: Eur J Gastroenterol Hepatol 1996 Apr;8(4):343–9.

Duodenal ulcer disease. Tytgat GN. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):829–33 (44 ref.)

Practical diagnosis of Helicobacter pylori infection. van Zwet AA, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):501–7 (83 ref.)

Helicobacter pylori transmission: evidence from a comparison with hepatitis A virus. Webb PM, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):439–41

Significance of the 14C–urea breath test in the determination of the location infected by Helicobacter pylori in the alimentary canal. Kopański Z, et al. **Eur J Med Res** 1997 Mar 24;2(3):136–8

Helicobacter pylori disease in childhood. Blecker U. **Eur J Pediatr** 1996 Sep;155(9):753–5 (35 ref.)

Resolution of protein–losing hypertrophic gastropathy by eradication of Helicobacter pylori. Yamada M, et al. **Eur J Pediatr** 1997 Mar;156(3):182–5

Helicobacter pylori infection in symptomatic and asymptomatic children: a prospective clinical study. Oztürk H, et al. **Eur J Pediatr Surg** 1996 Oct;6(5):265–9

Helicobacter pylori gastritis associated with a gastric inflammatory fibroid tumour and sarcoidosis. Buciuto R, et al. **Eur J Surg** 1996 May;162(5):421–4

The prevalence of Helicobacter pylori infection and types of gastritis in diabetic patients. The Kraków Study. Mallecki M, et al. **Exp Clin Endocrinol Diabetes** 1996; 104(5):365–9

Effect of Helicobacter pylori eradication therapy on dyspeptic symptoms in primary care. Hobbs FD, et al. **Fam Pract** 1996 Jun;13(3):225–8

Gastric mucosa during treatment with lansoprazole: Helicobacter pylori is a risk factor for argyrophil cell hyperplasia [comment] Eissele R, et al. **Gastroenterology** 1997 Mar;112(3):707–17. Comment on: Gastroenterology 1997 Mar;112(3):1033–6.

Is the only good H. pylori a dead H. pylori? Fennerty MB. **Gastroenterology** 1996 Dec;111(6):1773–4

Host factors in Helicobacter infection. Kapadia CR. **Gastroenterology** 1997 Jul;113(1):361–2

Helicobacter pylori lipopolysaccharide stimulates histamine release and DNA synthesis in rat enterochromaffin–like cells. Kidd M, et al. **Gastroenterology** 1997 Oct; 113(4):1110–7

Serum 13C–bicarbonate assay for the diagnosis of gastric Helicobacter pylori infection and response to treatment. Kim MJ, et al. **Gastroenterology** 1997 Jul;113(1):31–7

H. pylori and gastric phospholipids of peptic ulcer [letter; comment] Koyama T, et al. **Gastroenterology** 1997 Mar; 112(3):1056–7. Comment on: Gastroenterology 1994 Aug;107(2):362–8.

Curing Helicobacter pylori infection in patients with duodenal ulcer may provoke reflux esophagitis. Labenz J, et al. **Gastroenterology** 1997 May;112(5):1442–7

Mast cell involvement in gastritis with or without Helicobacter pylori infection. Nakajima S, et al. **Gastroenterology** 1997 Sep;113(3):746–54

Helicobacter pylori infection and chronic gastric acid hyposecretion. El–Omar EM, et al. **Gastroenterology** 1997 Jul;113(1):15–24

Should we treat H. pylori infection to prevent gastric cancer? Parsonnet J, et al. **Gastroenterology** 1997 Mar;112(3):1044–5

Are there three types of Helicobacter pylori gastritis? Rubin CE. **Gastroenterology** 1997 Jun;112(6):2108–10

Regression of gastric MALT lymphoma after eradication of Helicobacter pylori is predicted by endosonographic staging. MALT Lymphoma Study Group. Sackmann M, et al. **Gastroenterology** 1997 Oct;113(4):1087–90

24–hour gastric pH and extent of duodenal gastric metaplasia in Helicobacter pylori–positive patients. Savarino V, et al. **Gastroenterology** 1997 Sep;113(3):741–5

Helicobacter pylori: a vanishing problem? [editorial] Tytgat GN. **Gastroenterology** 1997 May;112(5):1435

Prevention of ulcer recurrence after eradication of Helicobacter pylori: a prospective long–term follow–up study. Van der Hulst RW, et al. **Gastroenterology** 1997 Oct; 113(4):1082–6

Studies on the interrelation between Zollinger–Ellison syndrome, Helicobacter pylori, and proton pump inhibitor therapy. Weber HC, et al. **Gastroenterology** 1997 Jan; 112(1):84–91

Helicobacter pylori stimulates inducible nitric oxide synthase expression and activity in a murine macrophage cell line. Wilson KT, et al. **Gastroenterology** 1996 Dec; 111(6):1524–33

The new urea membrane tests: BUT, RUT, or what? [editorial] Bickston SJ, et al. **Gastrointest Endosc** 1996 Nov; 44(5):626–7

Gastric mucosal biopsy via a nasogastric tube: a nonendoscopic method for diagnosing fundic and antral mucosal gastritis and Helicobacter pylori infection in man. Cryer B, et al. **Gastrointest Endosc** 1996 Sep;44(3):317–23

Evaluation of initial noninvasive therapy in pediatric patients presenting with suspected ulcer disease. Olson AD, et al. **Gastrointest Endosc** 1996 Nov;44(5):554–61

Eradication of Helicobacter pylori as the first step in the treatment of peptic stenosis [letter; comment] Tursi A, et al. **Gastrointest Endosc** 1996 Dec;44(6):757. Comment on: Gastrointest Endosc 1996 Feb;43(2 Pt 1):98–101.

Significance of Helicobacter pylori infection and gastric cancer: implications for screening. Moayyedi P, et al. **Gastrointest Endosc Clin N Am** 1997 Jan;7(1):47–64 (141 ref.)

Reversal of gastric somatostatin receptor inhibition by Helicobacter pylori lipopolysaccharide with ebrotidine and sulglycotide. Piotrowski J, et al. **Gen Pharmacol** 1997 May; 28(5):705–8

European Helicobacter pylori Study Group. Xth International Workshop on Gastroduodenal Pathology and Helicobacter pylori. Lisbon, Portugal, 12–14 September 1997. Abstracts. **Gut** 1997;41 Suppl 1:A1–141

Current European concepts in the management of Helicobacter pylori infection. The Maastricht Consensus Report. European Helicobacter Pylori Study Group. **Gut** 1997 Jul;41(1):8–13 (50 ref.)

European Helicobacter pylori Study Group. IXth International Workshop on Gastroduodenal Pathology and Helicobacter pylori. Copenhagen, Denmark, 16–19 October 1996. Abstracts. **Gut** 1996;39 Suppl 2:A1–131

Helicobacter pylori and duodenogastric reflux [letter; comment] Bechi P. **Gut** 1996 Nov;39(5):773–4. Comment on: Gut 1996 Jan;38(1):15–8.

Epithelium related deposition of activated complement in Helicobacter pylori associated gastritis. Berstad AE, et al. **Gut** 1997 Feb;40(2):196–203

Role of Helicobacter pylori in ulcer healing and recurrence of gastric and duodenal ulcers in longterm NSAID users. Response to omeprazole dual therapy [see comments] Bianchi Porro G, et al. **Gut** 1996 Jul;39(1):22–6. Comment in: Gut 1997 Apr;40(4):560–1.

Role of Helicobacter pylori surface structures in bacterial interaction with macrophages. Chmiela M, et al. **Gut** 1997 Jan;40(1):20–4

Helicobacter pylori: is it all in the family? Collins BJ. **Gut** 1996 Nov;39(5):768

A citric acid solution is an optimal test drink in the 13C–urea breath test for the diagnosis of Helicobacter pylori infection. Domínguez–Muñoz JE, et al. **Gut** 1997 Apr; 40(4):459–62

Helicobacter pylori and ulcer healing [letter; comment] Dowling D. **Gut** 1997 Apr;40(4):560–1. Comment on: Gut 1996 Jul;39(1):22–6.

Treatment of Helicobacter pylori infection favourably affects gastric mucosal superoxide dismutases. Götz JM, et al. **Gut** 1997 May;40(5):591–6

Treating Helicobacter pylori—the best is yet to come? Harris A, et al. **Gut** 1996 Dec;39(96):781–3

Relation between gastric acid output, Helicobacter pylori, and gastric metaplasia in the duodenal bulb [see comments]

Harris AW, et al. **Gut** 1996 Oct;39(4):513–20. Comment in: Gut 1996 Oct;39(4):615–6.

Inhibiting acid and Helicobacter pylori? [comment] Healey Z, et al. **Gut** 1997 Jul;41(1):125–6. Comment on: Gut 1997 Jul;41(1):33–6.

Mucosal expression and luminal release of epidermal and transforming growth factors in patients with duodenal ulcer before and after eradication of Helicobacter pylori. Konturek PC, et al. **Gut** 1997 Apr;40(4):463–9

Effect of curing Helicobacter pylori infection on intragastric acidity during treatment with ranitidine in patients with duodenal ulcer [see comments] Labenz J, et al. **Gut** 1997 Jul;41(1):33–6. Comment in: Gut 1997 Jul;41(1):125–6.

Does treatment of Helicobacter pylori with antibiotics alone heal duodenal ulcer? A randomised double blind placebo controlled study [seecomments] Lam SK, et al. **Gut** 1997 Jul;41(1):43–8

Treating Helicobacter pylori induced ulcers with antibiotics alone [comment] Lambert J. **Gut** 1997 Jul;41(1):129–30. Comment on: Gut 1997 Jul;41(1):43–8.

Seroepidemiology of Helicobacter pylori infection and hepatitis A in a rural area: evidence against a common mode of transmission. Luzza F, et al. **Gut** 1997 Aug; 41(2):164–8

The Helicobacter pylori breath test: a surrogate marker for peptic ulcer disease in dyspeptic patients. McColl KE, et al. **Gut** 1997 Mar;40(3):302–6

Helicobacter pylori, gastric acid, and duodenal gastric metaplasia [comment] McColl KE. **Gut** 1996 Oct; 39(4):615–6. Comment on: Gut 1996 Oct;39(4):508–12. Comment on: Gut 1996 Oct;39(4):513–20.

Effects of Helicobacter pylori eradication therapy on hyperammonaemia in patients with liver cirrhosis [see comments] Miyaji H, et al. **Gut** 1997 Jun;40(6):726–30. Comment in: Gut 1997 Jun;40(6):805–6.

Evaluation of Helicobacter pylori in reflux oesophagitis and Barrett's oesophagus. Newton M, et al. **Gut** 1997 Jan; 40(1):9–13

Prevalence of Helicobacter pylori infection and related gastroduodenal lesions in spouses of Helicobacter pylori positive patients with duodenal ulcer. Parente F, et al. **Gut** 1996 Nov;39(5):629–33

Vitamin E concentrations in the human stomach and duodenum--correlation with Helicobacter pylori infection. Phull PS, et al. **Gut** 1996 Jul;39(1):31–5

Cytokines and Helicobacter pylori--a growth area [comment] Playford R. **Gut** 1996 Dec;39(96):881–2. Comment on: Gut 1996 Dec;39(96):787–94.

Comparison of serum, salivary, and rapid whole blood diagnostic tests for Helicobacter pylori and their validation against endoscopy based tests. Reilly TG, et al. **Gut** 1997 Apr;40(4):454–8

Relation between Helicobacter pylori infection and gastrointestinal symptoms and syndromes. Rosenstock S, et al. **Gut** 1997 Aug;41(2):169–76

Circadian gastric acidity in Helicobacter pylori positive ulcer patients with and without gastric metaplasia in the duodenum [see comments] Savarino V, et al. **Gut** 1996 Oct; 39(4):508–12. Comment in: Gut 1996 Oct;39(4):615–6.

Effects of Helicobacter pylori vacuolating cytotoxin on primary cultures of human gastric epithelial cells. Smoot DT, et al. **Gut** 1996 Dec;39(96):795–9

Helicobacter pylori, ammonia and the brain [comment] Taylor-Robinson SD, et al. **Gut** 1997 Jun;40(6):805–6. Comment on: Gut 1997 Jun;40(6):726–30.

Increased production of interleukin 1 beta and hepatocyte growth factor may contribute to foveolar hyperplasia in enlarged fold gastritis [see comments] Yasunaga Y, et al. **Gut** 1996 Dec;39(96):787–94. Comment in: Gut 1996 Dec;39(96):881–2.

Helicobacter pylori seropositivity in subjects with acute myocardial infarction. Rathbone B, et al. **Heart** 1996 Oct; 76(4):308–11

Hyperhomocysteinaemia, Helicobacter pylori, and coronary heart disease. Sung JJ, et al. **Heart** 1996 Oct;76(4):305–7

Prospective relations between Helicobacter pylori infection, coronary heart disease and stroke in middle-aged men [letter; comment] Wincup PH, et al. **Heart** 1997 Mar; 77(3):294. Comment on: Heart 1996 Jun;75(6):568–72.

Cellular proliferation and ploidy of the gastric mucosa: the role of Helicobacter pylori. Abdel-Wahab M, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):880–5

Detection of Helicobacter pylori infection using single serum specimens: comparison of five commercial serological tests. Allerberger F, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1656–9

Precancerous gastric lesions and Helicobacter pylori. Masci E, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):854–8

Relationship of p53 and c-erbB-2 expression to histopathological features, Helicobacter pylori infection and prognosis in gastric cancer. Shun CT, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):604–9

Pantoprazole-based dual and triple therapy for the eradication of Helicobacter pylori infection: a randomized controlled trial. Svoboda P, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):886–90

One-week low-dose triple therapy vs. two-week medium-dose double therapy for H.pylori infection. Tursi A, et al. **Hepatogastroenterology** 1996 Jul-Aug; 43(10):859–62

Effective reduction of Helicobacter pylori infection after upper gastrointestinal endoscopy by mechanical washing of the endoscope. Wu MS, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1660–4

Barry Marshall and the resurrection of Johannes Fibiger. Weisse AB. **Hosp Pract (Off Ed)** 1996 Sep 15;31(9):105–12, 116

Helicobacter pylori infection and adenocarcinoma arising in Barrett's esophagus. Quddus MR, et al. **Hum Pathol** 1997 Sep;28(9):1007–9

Gastric lymphoma and Helicobacter pylori. Isaacson PG, et al. **Important Adv Oncol** 1996;:111–21 (58 ref.)

Helicobacter pylori: need for guidance [letter; comment] Bafna S. **Indian J Gastroenterol** 1997 Apr;16(2):78. Comment on: Indian J Gastroenterol 1997 Jan;16(1):3–5. Comment on: Indian J Gastroenterol 1997 Jan;16(1):16–7.

Helicobacter pylori in the Indian environment. Bhatia SJ, et al. **Indian J Gastroenterol** 1995 Oct;14(4):139–44 (63 ref.)

Triple-drug therapy of Helicobacter pylori infection in duodenal ulcer disease. Dayal VM, et al. **Indian J Gastroenterol** 1997 Apr;16(2):46–8

Helicobacter pylori eradication--evaluation of triple therapy containing omeprazole. Goenka MK, et al. **Indian J Gastroenterol** 1996 Jan;15(1):1–3

Healing of chronic antral gastritis: effect of sucralfate and colloidal bismuth subcitrate. Kumar M, et al. **Indian J Gastroenterol** 1996 Jul;15(3):90–3

Helicobacter pylori gastritis masquerading as gastric lymphoma. Nagral S, et al. **Indian J Gastroenterol** 1995 Oct;14(4):151–2

Transcriptional expression of gastrin mRNA in Helicobacter pylori infected patients. Gupta A, et al. **Indian J Med Res** 1997 Mar;105:136–40

Endoscopic, histologic and microbiologic evaluation of upper abdominal pain with special reference to Helicobacter pylori infection [see comments] Kumar M, et al. **Indian Pediatr** 1996 Nov;33(11):905–9. Comment in: Indian Pediatr 1996 Nov;33(11):899–903.

Helicobacter pylori infection [editorial; comment] Patwari AK. **Indian Pediatr** 1996 Nov;33(11):899–903 (7 ref.). Comment on: Indian Pediatr 1996 Nov;33(11):905–9.

Helicobacter pylori cytotoxin induces vacuolation of primary human mucosal epithelial cells. Harris PR, et al. **Infect Immun** 1996 Nov;64(11):4867–71

Helicobacter pylori infection enhances mucosal interleukin-1 beta, interleukin-6, and the soluble receptor of interleukin-2. Basso D, et al. **Int J Clin Lab Res** 1996; 26(3):207–10

Helicobacter pylori eradication--comparison of three drug regimens and symptomatic assessment in duodenitis and antral gastritis. Tan WC, et al. **Int J Clin Pract** 1997 Jun; 51(4):214–6

Helicobacter pylori infection in the young in Bangladesh: prevalence, socioeconomic and nutritional aspects. Mahalanabis D, et al. **Int J Epidemiol** 1996 Aug;25(4):894–8

Epidemiology of Helicobacter pylori infection among 4742 randomly selected subjects from Northern Ireland. Murray LJ, et al. **Int J Epidemiol** 1997 Aug;26(4):880–7

2nd European Meeting on Pathogenesis and Host Response in Helicobacter pylori Infections. Galway, Ireland, March 23–25, 1997. Abstract. **Ir J Med Sci** 1997 Apr-Jun;166 Suppl 3:1–36

Long-term semi-quantitative follow-up of Helicobacter pylori associated gastritis. Tham TC, et al. **Ir J Med Sci** 1997 Jul-Sep;166(3):132–4

European Consensus Guidelines identify acid pump inhibitor based triple therapy as today's treatment of choice for H. pylori eradication [news] **Ir Med J** 1996 Nov-Dec; 89(6):214

Changing patterns in the management of duodenal ulcers [editorial] McCormack G, et al. **Ir Med J** 1996 Jul-Aug; 89(4):126, 130

Reinfection or recrudescence after apparently successful eradication of Helicobacter pylori infection: can the type of gastritis solve the problem? Bruno M, et al. **Ital J Gastroenterol** 1996 May;28(4):216–9

Gastric pathology by Helicobacter pylori: recent advances in physiopathology diagnosis and therapy. Naples, Italy, October 20, 1995. Budillon G, et al. **Ital J Gastroenterol** 1996 Jan;28(1):58–9

Helicobacter pylori gastritis and non-ulcer dyspepsia in childhood. Efficacy of one-week triple antimicrobial therapy in eradicating the organism. Cucchiara S, et al. **Ital J Gastroenterol** 1996 Oct-Nov;28(8):430–5

Value of serology (ELISA) for the diagnosis of Helicobacter pylori infection: evaluation in patients attending endoscopy and in those with fundic atrophic gastritis. Tucci A, et al. **Ital J Gastroenterol** 1996 Sep;28(7):371–6

Serum pepsinogen I levels and acid secretion in Helicobacter pylori associated enlarged fold gastritis. Yasunaga Y, et al. **Ital J Gastroenterol** 1996 Oct-Nov;28(8):457–61

Chronic atrophic gastritis and Helicobacter pylori infection in primary biliary cirrhosis: a cross-sectional study with matching [see comments] Floreani A, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):13–7. Comment in: Ital J Gastroenterol Hepatol 1997 Feb;29(1):5–10.

Acid secretion, serum pepsinogen A and Helicobacter pylori [letter] Testino G, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):81–2

Sweet's syndrome associated with Helicobacter pylori infection. Kürkçüoğlu N, et al. **J Am Acad Dermatol** 1997 Jul;37(1):123–4

Helicobacter pylori in peptic ulcer disease: report of an NIH consensus conference [see comments] Berg AO. **J Am Board Fam Pract** 1996 May-Jun;9(3):205–7 (4 ref.) . Comment in: J Am Board Fam Pract 1996 Sep-Oct;9(5):392.

Symptomatic gastric sarcoidosis and Helicobacter pylori infection. Pope JB, et al. **J Am Board Fam Pract** 1996 Nov-Dec;9(6):451–4

Breath test, endoscopy, and peptic ulcer disease [letter; comment] Rodney WM. **J Am Board Fam Pract** 1997 May-Jun;10(3):241–2. Comment on: J Am Board Fam Pract 1996 Sep-Oct;9(5):392.

NIH consensus on Helicobacter pylori in peptic ulcer disease [letter; comment] [see comments] Zoorob RJ. **J Am Board Fam Pract** 1996 Sep-Oct;9(5):392. Comment on: J Am Board Fam Pract 1996 May-Jun;9(3):205–7. Comment in: J Am Board Fam Pract 1997 May-Jun;10(3):241–2.

One week treatment for Helicobacter pylori infection: a randomised study of quadruple therapy versus triple therapy. Phull PS, et al. **J Antimicrob Chemother** 1995 Dec; 36(6):1085–8

Effects of omeprazole and amoxycillin on the human oral and gastrointestinal microflora in patients with Helicobacter pylori infection. Stark CA, et al. **J Antimicrob Chemother** 1996 Dec;38(6):927–39

What is the best azithromycin-based therapy for Helicobacter pylori infection? [letter; comment] Tursi A, et al. **J Antimicrob Chemother** 1997 Jan;39(1):111. Comment on: J Antimicrob Chemother 1996 Apr;37(4):849–50.

Vacuoles induced by Helicobacter pylori toxin contain both late endosomal and lysosomal markers. Molinari M, et al. **J Biol Chem** 1997 Oct 3;272(40):25339–44

Successful dilatation of pyloric stricture resistant to balloon dilatation with electrocautery using a sphinctertome. Boron B, et al. **J Clin Gastroenterol** 1996 Oct;23(3):239–41

How to achieve a near 100% cure rate for H. pylori infection in peptic ulcer patients. A personal viewpoint. de Boer WA. **J Clin Gastroenterol** 1996 Jun;22(4):313–6 (28 ref.)

Gastric antioxidant, nitrites, and mucosal lipoperoxidation in chronic gastritis and Helicobacter pylori infection. Farinati F, et al. **J Clin Gastroenterol** 1996 Jun;22(4):275–81

Duodenal stenosis may not regress after eradication of Helicobacter pylori. Rinaldi V, et al. **J Clin Gastroenterol** 1997 Jun;24(4):288–9

One-week therapy for Helicobacter pylori. A randomized trial of two treatment regimens. Scheiman JM, et al. **J Clin Gastroenterol** 1996 Oct;23(3):170–3

Helicobacter pylori eradication helps resolve pyloric and duodenal stenosis. Tursi A, et al. **J Clin Gastroenterol** 1996 Sep;23(2):157–8

Resolution of a metaplastic duodenal polyp after cure of Helicobacter pylori infection. Yousfi MM, et al. **J Clin Gastroenterol** 1996 Jul;23(1):53–4

Platelet activation In mice and human Helicobacter pylori infection. Elizalde JI, et al. **J Clin Invest** 1997 Sep 1; 100(5):996–1005

Expression of B7-1 and B7-2 costimulatory molecules by human gastric epithelial cells: potential role in CD4+ T cell activation during Helicobacter pylori infection. Ye G, et al. **J Clin Invest** 1997 Apr 1;99(7):1628–36

Endoscopic ultrasound in the evaluation of gastric small lymphocytic mucosa-associated lymphoid tumors. Pavlick AC, et al. **J Clin Oncol** 1997 May;15(5):1761–6

Is the polymerase chain reaction or cure of Helicobacter pylori infection of help in the differential diagnosis of early gastric mucosa-associated lymphatic tissue lymphoma? Rudolph B, et al. **J Clin Oncol** 1997 Mar;15(3):1104–9

Association between Helicobacter pylori infection and serum pepsinogen concentrations in gastroduodenal disease. Matsumoto K, et al. **J Clin Pathol** 1996 Dec;49(12):1005–8

Insulin-like growth factor-I in Helicobacter pylori gastritis and response to eradication using bismuth based triple therapy. Taha AS, et al. **J Clin Pathol** 1996 Aug;49(8):676–8

Helicobacter pylori among Egyptian patients with chronic liver diseases. A comparative study. Omar MM, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):563–70

Subtypes of intestinal metaplasia and their relationship to Helicobacter pylori. Evrensel T, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):221–4

Helicobacter pylori and intestinal metaplasia. Evrensel T, et al. **J Environ Pathol Toxicol Oncol** 1996;15(2–4):215–9

Eradication of helicobacter pylori among patients from a primary care practice. Gomollón F, et al. **J Fam Pract** 1996 Dec;43(6):551–5

Helicobacter pylori infection and risk of peptic ulcer among cirrhotic patients. Wang CH, et al. **J Formos Med Assoc** 1997 Jan;96(1):55–8

Proceedings of the 1st meeting of the Japanese Research Society for Helicobacter pylori-Related Gastroduodenal Diseases. Tokyo, Japan, April 15–16, 1995. **J Gastroenterol** 1996 Nov;31 Suppl 9:1–82

Sofalcone for treatment of Helicobacter pylori infection. Fujioka T, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:56–8

Establishment of gastric Helicobacter pylori infection in Mongolian gerbils. Hirayama F, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:24–8

Effect of lansoprazole in mono-, dual-, or triple therapy on Helicobacter pylori eradication. Kawano S, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:41–3

Endoscopic topical therapy for the treatment of Helicobacter pylori infection. Kihira K, et al. **J Gastroenterol** 1996 Nov; 31 Suppl 9:66–8

Patient factors that predict failure of omeprazole,

clarithromycin, and tinidazole to eradicate Helicobacter pylori. Moayyedi P, et al. **J Gastroenterol** 1997 Feb; 32(1):24–7

Significant increase in eradication rates of Helicobacter pylori infection with two consecutive dual therapies (omeprazole and amoxycillin or omeprazole and clarithromycin). A randomized study in 450 Spanish patients. Moreno JA, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:48–52

Atopic dermatitis successfully treated by eradication of Helicobacter pylori. Murakami K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:77–82

Helicobacter pylori infection accelerates human gastric mucosal cell proliferation. Murakami K, et al. **J Gastroenterol** 1997 Apr;32(2):184–8

Prevalence of Helicobacter pylori infection–associated histologic chronic gastritis in the Spanish population. Pajares JM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:1–5

Relationship between progression of gastric mucosal atrophy and Helicobacter pylori infection: retrospective long–term endoscopic follow–up study. Sakaki N, et al. **J Gastroenterol** 1997 Feb;32(1):19–23

Efficacy of clarithromycin in eradicating Helicobacter pylori. Satoh K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:53–5 (34 ref.)

Ecabet sodium eradicates Helicobacter pylori infection in gastric ulcer patients. Shimoyama T, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:59–62

Helicobacter pylori gastritis—epidemiology. Sipponen P. **J Gastroenterol** 1997 Apr;32(2):273–7 (32 ref.)

Regression of atypical lymphoid hyperplasia after eradication of Helicobacter pylori. Tanahashi T, et al. **J Gastroenterol** 1997 Aug;32(4):543–7

Simple 13C–urea breath test with infra–red spectrophotometer. Taniguchi Y, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:37–40

Sucralfate and Helicobacter pylori. Terano A, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:63–5 (10 ref.)

Eradication of Helicobacter pylori followed by reinfection. Tonokatsu Y, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:75–6

The 1st Western Pacific Helicobacter Congress. Guangzhou, People's Republic of China. 28 February–1 March 1996. Abstracts. **J Gastroenterol Hepatol** 1996;11 Suppl 1:A1–49

Diagnosis of Helicobacter pylori infection. Azuma T, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):662–9 (65 ref.)

Clinical assessment of the bacterial load of Helicobacter pylori on gastric mucosa by a new multi–scaled rapid urease test. Chou CH, et al. **J Gastroenterol Hepatol** 1997 Jan; 12(1):1–6

Helicobacter pylori in Melbourne Chinese immigrants: evidence for oral–oral transmission via chopsticks. Chow TK, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct; 10(5):562–9

Long–term follow–up of gastric histology after Helicobacter pylori eradication. Forbes GM, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):670–3

Review: Helicobacter pylori. Current issues and new directions. Forbes GM. **J Gastroenterol Hepatol** 1997 Jun; 12(6):419–24 (51 ref.)

Prevalence of and risk factors for Helicobacter pylori infection in a multi–racial dyspeptic Malaysian population undergoing endoscopy. Goh KL. **J Gastroenterol Hepatol** 1997 Jun;12(6):S29–35

Lansoprazole and amoxycillin: observations on the treatment of Helicobacter pylori infection. Hazell SL, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):93–9

Review: eradication of Helicobacter pylori. Problems and recommendations. Huang JQ, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):590–8 (78 ref.)

Helicobacter pylori infection and the risk of gastric cancer among the Korean population. Kim HY, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):100–3

Helicobacter pylori infection delays the healing of acetic acid–induced gastric ulcer in Japanese monkeys. Kodama R, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1097–102

Risk factors of peptic ulcer disease: different impact of Helicobacter pylori in Dutch and Japanese populations? Schlemper RJ, et al. **J Gastroenterol Hepatol** 1996 Sep; 11(9):825–31

Histologically diagnosed Helicobacter pylori in heart transplant recipients. Huwez FU, et al. **J Heart Lung Transplant** 1997 Jun;16(6):596–9

Seroprevalence and epidemiology of Helicobacter pylori infection in patients with cirrhosis. Calvet X, et al. **J Hepatol** 1997 Jun;26(6):1249–54

Helicobacter pylori: clinical aspects. McColl KE. **J Infect** 1997 Jan;34(1):7–13 (61 ref.)

Helicobacter pylori: bacteriology and laboratory diagnosis. Williams CL. **J Infect** 1997 Jan;34(1):1–5 (58 ref.)

Helicobacter pylori reinfection is virtually absent after successful eradication. van der Hulst RW, et al. **J Infect Dis** 1997 Jul;176(1):196–200

Helicobacter pylori—can the mechanisms of pathogenesis guide us towards novel strategies for treatment and prevention? Falk P. **J Intern Med** 1996 Dec;240(6):319–32 (93 ref.)

Helicobacter pylori: current concepts. Neff G, et al. **J La State Med Soc** 1996 Aug;148(8):364–6 (15 ref.)

Induction of ulceration and severe gastritis in Mongolian gerbil by Helicobacter pylori infection. Matsumoto S, et al. **J Med Microbiol** 1997 May;46(5):391–7

Helicobacter pylori and the cell cycle [editorial; comment] Correa P. **J Natl Cancer Inst** 1997 Jun 18;89(12):836–7. Comment on: J Natl Cancer Inst 1997 Jun 18;89(12):863–8.

Cure of Helicobacter pylori infection and duration of remission of low–grade gastric mucosa–associated lymphoid tissue lymphoma [see comments] Neubauer A, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1350–5. Comment in: J Natl Cancer Inst 1997 Sep 17;89(18):1328–30.

Gastric mucosa–associated lymphoid tissue lymphomas: more than a fascinating model [editorial; comment] Roggero E, et al. **J Natl Cancer Inst** 1997 Sep 17;89(18):1328–30. Comment on: J Natl Cancer Inst 1997 Sep 17;89(18):1350–5.

Methodological validation and clinical usefulness of carbon–14–urea breath test for documentation of presence and eradication of Helicobacter pylori infection. Desroches JJ, et al. **J Nucl Med** 1997 Jul;38(7):1141–5

Carbon–14–urea breath test: a cautionary note [letter] Warwick T. **J Nucl Med** 1996 Nov;37(11):1916

Prevalence of Helicobacter pylori infection in asymptomatic children. Hardikar W, et al. **J Paediatr Child Health** 1995 Dec;31(6):537–41

A study of accessory cells in the acquired lymphoid tissue of helicobacter gastritis. Sarsfield P, et al. **J Pathol** 1996 Sep;180(1):18–25

Sucrose permeability in children with gastric damage and Helicobacter pylori infection [see comments] Vera JF, et al. **J Pediatr Gastroenterol Nutr** 1997 May;24(5):506–11. Comment in: J Pediatr Gastroenterol Nutr 1997 May;24(5):621–2.

Helicobacter pylori is not associated with nonspecific abdominal pain in children. Yoshida NR, et al. **J Pediatr Surg** 1996 Jun;31(6):747–9

Basic and clinical aspects of Helicobacter pylori infection. International symposium of Jagiellonian Medical Faculty Fundation, Cracow, Poland, December 18, 1995. Abstracts. **J Physiol Pharmacol** 1995 Dec;46(4 Suppl 2):1–80

Helicobacter pylori infection and gastric pathology. Cracow, Poland, April 25–26, 1997. Abstracts. **J Physiol Pharmacol** 1997 Mar;48 Suppl 1:1–97

Dysfunction in gastric myoelectric and motor activity in Helicobacter pylori positive gastritis patients with non–ulcer dyspesia. Thor P, et al. **J Physiol Pharmacol** 1996 Sep;47(3):469–76

Upper gastro–intestinal disease in Scotland: a survey of practice amongst Scottish gastroenterologists. Kubba AK, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):302–6

Pathogenesis to prescription: progress in understanding and treating acid related disorders. Hunt RH. **J R Nav Med Serv** 1996 Summer;82(2):122–33 (125 ref.)

Helicobacter pylori infection [letter; comment] Anand JK. **J R Soc Med** 1997 Mar;90(3):180. Comment on: J R Soc Med 1996 Dec;89(12):674–8.

Helicobacter pylori and cancer [letter; comment] Melato M, et al. **J R Soc Med** 1997 Jun;90(6):359. Comment on: J R Soc Med 1996 Dec;89(12):674–8.

Helicobacter pylori: the cancer link [see comments] O'Connor F, et al. **J R Soc Med** 1996 Dec;89(12):674–8 (53 ref.). Comment in: J R Soc Med 1997 Mar;90(3):180. Comment in: J R Soc Med 1997 Jun;90(6):359.

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Fennerty MB. **JAMA** 1996 Oct 9; 276(14):1135; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

From the Food and Drug Administration. Nightingale SL. **JAMA** 1996 Dec 4;276(21):1710

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Olson CA. **JAMA** 1996 Oct 9; 276(14):1135–6; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Webb DD. **JAMA** 1996 Oct 9; 276(14):1136; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Helicobacter pylori and iron deficiency [editorial; comment] Wood H, et al. **JAMA** 1997 Apr 9;277(14):1166–7. Comment on: JAMA 1997 Apr 9;277(14):1135–9.

Pervasive occult gastrointestinal bleeding in an Alaska native population with prevalent iron deficiency. Role of Helicobacter pylori gastritis [see comments] Yip R, et al. **JAMA** 1997 Apr 9;277(14):1135–9. Comment in: JAMA 1997 Apr 9;277(14):1166–7.

Triple therapy in duodenal ulcer healing—a follow up study. Qureshi H, et al. **JPMA J Pak Med Assoc** 1996 Sep; 46(9):194–5

Expression of human telomerase RNA is an early event of stomach carcinogenesis. Kuniyasu H, et al. **Jpn J Cancer Res** 1997 Feb;88(2):103–7

Investigation for the prevalence of Helicobacter pylori infection in patients with gastric carcinoma in Madras, India. Sivaprakash R, et al. **Jpn J Med Sci Biol** 1996 Apr; 49(2):49–56

Not all Helicobacter pylori strains are created equal: should all be eliminated? [see comments] Blaser MJ. **Lancet** 1997 Apr 5;349(9057):1020–2. Comment in: Lancet 1997 Jul 5;350(9070):70–1; discussion 72. Comment in: Lancet 1997 Jul 5;350(9070):71; discussion 72. Comment in: Lancet 1997 Jul 5;350(9070):71–2.

Regression of immunoproliferative small intestinal disease after eradication of Helicobacter pylori. Fischbach W, et al. **Lancet** 1997 Jan 4;349(9044):31–2

Helicobacter pylori infection [see comments] Goodwin CS, et al. **Lancet** 1997 Jan 25;349(9047):265–9 (86 ref.). Comment in: Lancet 1997 Mar 22;349(9055):878–9. Comment in: Lancet 1997 Mar 22;349(9055):879. Comment in: Lancet 1997 Mar 22;349(9055):879–80.

The only good Helicobacter pylori is a dead Helicobacter pylori [letter; comment] Graham DY. **Lancet** 1997 Jul 5; 350(9070):70–1; discussion 72. Comment on: Lancet 1997 Apr 5;349(9057):1020–2.

Helicobacter pylori infection [letter; comment] Harris A, et al. **Lancet** 1997 Mar 22;349(9055):879–80. Comment on: Lancet 1997 Jan 25;349(9047):265–9.

Helicobacter pylori infection [letter; comment] Larson JT, et al. **Lancet** 1997 Mar 22;349(9055):878–9. Comment on: Lancet 1997 Jan 25;349(9047):265–9.

Regression of mucosa–associated lymphoid–tissue lymphoma of rectum after eradication of Helicobacter pylori [letter] Matsumoto T, et al. **Lancet** 1997 Jul 12;350(9071):115–6

Helicobacter pylori infection [letter; comment] Numans ME, et al. **Lancet** 1997 Mar 22;349(9055):879. Comment on: Lancet 1997 Jan 25;349(9047):265–9.

The only good Helicobacter pylori is a dead Helicobacter pylori [letter; comment] Oderda G, et al. **Lancet** 1997 Jul 5;350(9070):71; discussion 72. Comment on: Lancet 1997 Apr 5;349(9057):1020–2.

Helicobacter pylori infection in children [letter] Rowland M, et al. **Lancet** 1997 Jan 18;349(9046):209

The only good Helicobacter pylori is a dead Helicobacter pylori [letter; comment] van Doorn LJ, et al. **Lancet** 1997 Jul 5;350(9070):71–2. Comment on: Lancet 1997 Apr 5;349(9057):1020–2.

Regression of MALT lymphoma and treatment for Helicobacter pylori [letter; comment] Walt RP. **Lancet** 1996 Oct 12;348(9033):1041–2. Comment on: Lancet 1996 Jul 27;348(9022):268–9.

Regression of mucosa–associated lymphoid–tissue lymphoma after eradication of Helicobacter pylori [letter] Wright DH. **Lancet** 1997 Sep 27;350(9082):960–1

Specialist and generalist physicians' adoption of antibiotic therapy to eradicate Helicobacter pylori infection. Hirth RA, et al. **Med Care** 1996 Dec;34(12):1199–204

Gastric Helicobacter pylori infection as a cause of idiopathic Parkinson disease and non–arteric anterior optic ischemic neuropathy. Altschuler E. **Med Hypotheses** 1996 Nov; 47(5):413–4

Helicobacter pylori infection in an Australian regional city: prevalence and risk factors. Peach HG, et al. **Med J Aust** 1997 Sep 15;167(6):310–3

14C–urea breath test: a useful non–invasive test in the diagnosis of Helicobacter pylori infection. Goh KL, et al. **Med J Malaysia** 1995 Sep;50(3):208–11

Helicobacter pylori infection in Malaysia [editorial] Mazlam MZ. **Med J Malaysia** 1995 Sep;50(3):205–7

Seroprevalence of Helicobacter pylori infection in patients with connective tissue diseases. Showji Y, et al. **Microbiol Immunol** 1996;40(7):499–503

A prospective study of Helicobacter pylori nonulcer dyspepsia. Velanovich V. **Mil Med** 1996 Apr;161(4):197–9

Immature cells and Helicobacter pylori infection in early gastric cancer. An immunohistochemical study. Testino G. **Minerva Med** 1997 May;88(5):183–6

A pitfall in assessing gastric lymphoma after eradication of Helicobacter pylori [letter] Fischbach W, et al. **N Engl J Med** 1997 May 22;336(21):1529–30

Helicobacter pylori, gastric ulcer, and duodenal ulcer [letter; comment] Graham JR. **N Engl J Med** 1996 Dec 12; 335(24):1842; discussion 1842–3. Comment on: N Engl J Med 1996 Jul 25;335(4):242–9. Comment on: N Engl J Med 1996 Jul 25;335(4):278–80.

Helicobacter pylori, gastric ulcer, and duodenal ulcer [letter; comment] Mitchell HM, et al. **N Engl J Med** 1996 Dec 12;335(24):1841; discussion 1842–3. Comment on: N Engl J Med 1996 Jul 25;335(4):242–9. Comment on: N Engl J Med 1996 Jul 25;335(4):278–80.

Treatment of Helicobacter pylori infection [letter; comment] Monkemuller KE. **N Engl J Med** 1996 Dec 12; 335(24):1843–4. Comment on: N Engl J Med 1996 Jul 25;335(4):250.

Helicobacter pylori, gastric ulcer, and duodenal ulcer [letter; comment] Rubin CE. **N Engl J Med** 1996 Dec 12; 335(24):1841–2; discussion 1842–3. Comment on: N Engl J Med 1996 Apr 18;334(16):1018–22. Comment on: N Engl J Med 1996 Jul 25;335(4):278–80.

Effect of eradication of Helicobacter pylori in patients with fundic atrophic gastritis [letter] Tucci A, et al. **N Engl J Med** 1997 Mar 27;336(13):957–8

The 13C urea breath test to assess Helicobacter pylori infection in school children. Dore SP, et al. **Natl Med J India** 1997 Mar–Apr;10(2):57–60

Helicobacter pylori infection and gastric carcinoma. Dwivedi M. **Natl Med J India** 1996 Sep–Oct;9(5):222–3

Helicobacter pylori infection in haemodialysis patients and renal transplant recipients. Ozgür O, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):289–91

Frequency of Helicobacter pylori infection in uremic hemodialyzed patients with antral gastritis [letter] Krawczyk W, et al. **Nephron** 1996;74(3):621–2

Validation of a technique for the preparation of individual patient doses of 14C–urea. Clarkson A, et al. **Nucl Med Commun** 1997 Jan;18(1):57–9

Abnormal gastric emptying and Helicobacter pylori infection in patients with cirrhosis of the liver. Kao CH, et al. **Nucl Med Commun** 1996 Oct;17(10):915–9

Diagnostic and treatment guidelines for Helicobacter pylori.

Fay M, et al. **Nurse Pract** 1996 Jul;21(7):28–30, 33–4, 38 (29 ref.)

A twelve-month follow-up after Helicobacter pylori eradication. A clinical and histological evaluation. Bruno M, et al. **Panminerva Med** 1996 Sep;38(3):139–44

Evaluation of the efficacy and tolerability of four different therapeutic regimens for the Helicobacter pylori eradication. Tursi A, et al. **Panminerva Med** 1996 Sep; 38(3):145–9

Helicobacter pylori infection. Hughes WT. **Pediatr Ann** 1996 Sep;25(9):491–3

Treatment of Helicobacter pylori infection: a review. Blecker U, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):391–9 (105 ref.)

Helicobacter pylori acquisition in infancy after decline of maternal passive immunity. Gold BD, et al. **Pediatr Res** 1997 May;41(5):641–6

Helicobacter pylori infection. The importance of eradication in patients with gastric disease. Bonagura AF, et al. **Postgrad Med** 1996 Nov;100(5):115–6, 119–20, 123–4 passim (13 ref.)

The infectious etiology of peptic ulcer disease. Diagnosis and implications for therapy. Brooks MJ, et al. **Prim Care** 1996 Sep;23(3):443–54 (39 ref.)

Epidemiological study of the prevalence of Helicobacter pylori infection in the general population in Asturias, Spain. Rodrigo Sáez L, et al. **Rev Esp Enferm Dig** 1997 Jul; 89(7):511–22 **(Eng, Spa)**

Assessment of the usefulness of endoscopic signs in Helicobacter pylori associated gastritis. Yela MC, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):3–12 **(Eng, Spa)**

Heat-shock-proteins-antibodies in patients with Helicobacter pylori associated chronic gastritis. Leri O, et al. **Riv Eur Sci Med Farmacol** 1996 Mar–Apr;18(2):45–7

The mouth-stomach crossing of Helicobacter pylori. Pustorino R, et al. **Riv Eur Sci Med Farmacol** 1996 Sep–Dec;18(5–6):183–6

Intestinal metaplasia and dysplastic modifications in H. pylori gastritis. Tăban S, et al. **Rom J Morphol Embryol** 1996 Jan–Jun;42(1–2):109–15

Antral mucosal cytokine gene expression in Helicobacter pylori infection and duodenal ulcer disease [letter; comment] Ajjan RA, et al. **Scand J Gastroenterol** 1997 Feb; 32(2):191–2. Comment on: Scand J Gastroenterol 1995 Dec;30(12):1153–9.

Galenic formulations and Helicobacter pylori eradication [letter; comment] Boixeda D, et al. **Scand J Gastroenterol** 1996 Jul;31(7):736. Comment on: Scand J Gastroenterol 1996 Jan;31(1):49–53.

The growth of primary low-grade B-cell gastric lymphoma is sustained by Helicobacter pylori. Cammarota G, et al. **Scand J Gastroenterol** 1997 Mar;32(3):285–7

Helicobacter pylori and gastric cancer: an overrated risk? Crespi M, et al. **Scand J Gastroenterol** 1996 Nov; 31(11):1041–6 (69 ref.)

13C-urea breath test in Helicobacter pylori diagnosis and eradication. Correlation to histology, origin of 'false' results, and influence of food intake. Epple HJ, et al. **Scand J Gastroenterol** 1997 Apr;32(4):308–14

Helicobacter pylori infection and gastric emptying of indigestible solids in patients with dysmotility-like dyspepsia. Fock KM, et al. **Scand J Gastroenterol** 1997 Jul;32(7):676–80

Eradication of Helicobacter pylori affects symptoms in non-ulcer dyspepsia. Gilvarry J, et al. **Scand J Gastroenterol** 1997 Jun;32(6):535–40

Unhealed duodenal ulcers despite Helicobacter pylori eradication. Gisbert JP, et al. **Scand J Gastroenterol** 1997 Jul;32(7):643–50

Cure of Helicobacter pylori infection improves gastric acid secretion in patients with corpus gastritis. Gutierrez O, et al. **Scand J Gastroenterol** 1997 Jul;32(7):664–8

Characterization of lymphocytic infiltrates in Helicobacter pylori-associated gastritis. Hatz RA, et al. **Scand J Gastroenterol** 1996 Mar;31(3):222–8

Expression of mRNA for interferon-gamma, interleukin-10, and interleukin-12 (p40) in normal gastric mucosa and in mucosa infected with Helicobacter pylori. Karttunen RA, et al. **Scand J Gastroenterol** 1997 Jan;32(1):22–7

Helicobacter pylori infection in young patients with gastric carcinoma. Kokkola A, et al. **Scand J Gastroenterol** 1996 Jul;31(7):643–7

A quantitative analysis of symptoms of non-ulcer dyspepsia as related to age, pathology, and Helicobacter infection. Lai ST, et al. **Scand J Gastroenterol** 1996 Nov; 31(11):1078–82

Reversal of long-standing iron deficiency anaemia after eradication of Helicobacter pylori infection. Marignani M, et al. **Scand J Gastroenterol** 1997 Jun;32(6):617–22

Relation between histologic subtypes and location of gastric cancer and Helicobacter pylori. Martín-de-Argila C, et al. **Scand J Gastroenterol** 1997 Apr;32(4):303–7

Gastric bicarbonate secretion and release of prostaglandin E2 are increased in duodenal ulcer patients but not in Helicobacter pylori-positive healthy subjects [see comments] Mertz-Nielsen A, et al. **Scand J Gastroenterol** 1996 Jan;31(1):38–43. Comment in: Scand J Gastroenterol 1996 Aug;31(8):831–2.

Severity of Helicobacter pylori gastritis predicts duodenal ulcer recurrence. Miehlke S, et al. **Scand J Gastroenterol** 1996 Sep;31(9):856–62

Induction of acute gastritis and epithelial apoptosis by Helicobacter pylori lipopolysaccharide. Piotrowski J, et al. **Scand J Gastroenterol** 1997 Mar;32(3):203–11

Relationship of cigarette smoking, alcohol use, and dietary habits with Helicobacter pylori infection in Japanese men. Shinchi K, et al. **Scand J Gastroenterol** 1997 Jul;32(7):651–5

Helicobacter pylori infection and gastroduodenal ulcer in self-defense officials in Japan [letter] Shinchi K, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1136

Rate of Helicobacter pylori acquisition among Finnish adults: a fifteen year follow-up. Sipponen P, et al. **Scand J Gastroenterol** 1996 Mar;31(3):229–32

A comparison of Helicobacter pylori and H. heilmannii gastritis. A matched control study involving 404 patients. Stolte M, et al. **Scand J Gastroenterol** 1997 Jan;32(1):28–33

Helicobacter pylori inhibits the secretory activity of gastric parietal cells in patients with chronic gastritis. An ultrastructural study. Taguchi Y, et al. **Scand J Gastroenterol** 1997 Jul;32(7):656–63

Immature mucopeptic cell expansion in Helicobacter pylori-positive patients: a marker of progression towards gastric preneoplastic changes? [letter] Testino G, et al. **Scand J Gastroenterol** 1997 Jun;32(6):623–4

Higher prevalence of Helicobacter pylori infection in dyspeptic patients who do not have gastric phase III of the migrating motor complex. Testoni PA, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1063–8

Helicobacter pylori infection in non-ulcer dyspeptic and ulcer patients. Determinants and consequences in 'real life'. Thürmer HL, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):744–8

Long-term course and consequences of Helicobacter pylori gastritis. Results of a 32-year follow-up study. Valle J, et al. **Scand J Gastroenterol** 1996 Jun;31(6):546–50

Expression of cytokine mRNA in gastric mucosa with Helicobacter pylori infection [see comments] Yamaoka Y, et al. **Scand J Gastroenterol** 1995 Dec;30(12):1153–9. Comment in: Scand J Gastroenterol 1997 Feb;32(2);191–2.

The pH-Hp Challenge—From Mechanism to Management. Proceedings of a symposium. Copenhagen, Denmark, 29 April 1995. **Scand J Gastroenterol Suppl** 1996;215:1–122

Helicobacter pylori infection and dyspepsia. Armstrong D. **Scand J Gastroenterol Suppl** 1996;215:38–47 (86 ref.)

Eradication of Helicobacter pylori: omeprazole in combination with antibiotics. Axon AT, et al. **Scand J Gastroenterol Suppl** 1996;215:82–9 (58 ref.)

Italian omeprazole triple therapy—a 1-week regimen. Bazzoli F. **Scand J Gastroenterol Suppl** 1996;215:118

Helicobacter pylori reinfection after apparent eradication—the Ipswich experience. Bell GD, et al. **Scand J Gastroenterol Suppl** 1996;215:96–104

Managing patients in general practice. Brun J. **Scand J Gastroenterol Suppl** 1996;215:116–7

Immune and inflammatory responses to Helicobacter pylori infection. Crabtree JE. **Scand J Gastroenterol Suppl** 1996; 215:3–10 (78 ref.)

Diagnosis of Helicobacter pylori infection. Review of diagnostic techniques and recommendations for their use in different clinical settings. de Boer WA. **Scand J Gastroenterol Suppl** 1997;223:35–42 (93 ref.)

Pathological consequences of Helicobacter pylori infection. Dixon M. **Scand J Gastroenterol Suppl** 1996;215:21

Helicobacter pylori and gastric cancer. Forman D. **Scand J Gastroenterol Suppl** 1996;215:48–51 (19 ref.)

Helicobacter pylori and gastric cancer. Forman D. **Scand J Gastroenterol Suppl** 1996;220:23–6 (17 ref.)

The role of Helicobacter pylori in pathogenesis: the spectrum of clinical outcomes. Hunt RH. **Scand J Gastroenterol Suppl** 1996;220:3–9 (69 ref.)

Cost-effectiveness of Helicobacter pylori eradication therapy in duodenal ulcer disease. Jönsson B. **Scand J Gastroenterol Suppl** 1996;215:90–5

Helicobacter pylori eradication: therapy other than with bismuth or proton-pump inhibitors. Korman MG. **Scand J Gastroenterol Suppl** 1996;220:41–3 (25 ref.)

Role of Helicobacter pylori in the pathogenesis of atrophic gastritis. Kuipers EJ, et al. **Scand J Gastroenterol Suppl** 1997;223:28–34 (104 ref.)

Long-term consequences of Helicobacter pylori eradication: clinical aspects. Labenz J, et al. **Scand J Gastroenterol Suppl** 1996;215:111–5 (35 ref.)

Helicobacter pylori and disturbance of gastric function associated with duodenal ulcer disease and gastric cancer. McColl KE, et al. **Scand J Gastroenterol Suppl** 1996; 215:32–7 (40 ref.)

Management of Helicobacter pylori-positive peptic ulcer disease. Malfertheiner P. **Scand J Gastroenterol Suppl** 1996; 215:69

New developments in Helicobacter pylori eradication therapy. Pounder RE. **Scand J Gastroenterol Suppl** 1997; 223:43–5 (27 ref.)

Effects of permanent eradication or transient clearance of Helicobacter pylori on histology of gastric mucosa using omeprazole with or without antibiotics. Solcia E, et al. **Scand J Gastroenterol Suppl** 1996;215:105–10

Ulcer bleeding and perforation: non-steroidal anti-inflammatory drugs or Helicobacter pylori. Svanes C, et al. **Scand J Gastroenterol Suppl** 1996;220:128–31 (43 ref.)

Helicobacter pylori and non-ulcer dyspepsia. Talley NJ. **Scand J Gastroenterol Suppl** 1996;220:19–22 (51 ref.)

Current indications for Helicobacter pylori eradication therapy. Tytgat GN. **Scand J Gastroenterol Suppl** 1996; 215:70–3 (23 ref.)

Review of Helicobacter pylori eradication regimens. Unge P. **Scand J Gastroenterol Suppl** 1996;215:74–81

Pooled analysis of anti-Helicobacter pylori treatment regimens. Unge P, et al. **Scand J Gastroenterol Suppl** 1996; 220:27–40 (307 ref.)

Helicobacter pylori and peptic ulcer disease. Van der Hulst RW, et al. **Scand J Gastroenterol Suppl** 1996;220:10–8 (118 ref.)

Quality of life and Helicobacter pylori eradication. Wilhelmsen I. **Scand J Gastroenterol Suppl** 1996;221:18–20

Helicobacter pylori infection increases the risk of peptic ulcers in chronic users of non-steroidal anti-inflammatory drugs. Li EK, et al. **Scand J Rheumatol** 1996;25(1):42–6

Prevalence of Helicobacter pylori infection among sewage workers. Friis L, et al. **Scand J Work Environ Health** 1996 Oct;22(5):364–8

Transmission of Helicobacter pylori. Mendall MA. **Semin Gastrointest Dis** 1997 Jul;8(3):113–23 (101 ref.)

Helicobacter pylori-associated gastroduodenal disease in childhood. Blecker U. **South Med J** 1997 Jun;90(6):570–6; quiz 577 (75 ref.)

Clinical association of Helicobacter pylori gastritis in children [letter] Eltumi M, et al. **South Med J** 1997 Apr;90(4):461–2

Pathogenesis of gastric Helicobacter pylori. Moran AP. **Trends Microbiol** 1997 Jul;5(7):262–3

Histological spectrum of lymphoid follicles and aggregates in Helicobacter pylori gastritis. Amarapurkar AD, et al. **Trop Gastroenterol** 1997 Jan–Mar;18(1):22–3

Helicobacter pylori serology in childhood. Gürakan F, et al. **Turk J Pediatr** 1996 Jul–Sep;38(3):329–34

Randomised controlled trial of ranitidine versus omeprazole in combination with antibiotics for eradication of Helicobacter pylori. Tham TC, et al. **Ulster Med J** 1996 Nov;65(2):131–6

Differing degree and distribution of gastritis in Helicobacter pylori-associated diseases. Meining A, et al. **Virchows Arch** 1997 Jul;431(1):11–5

Incidence of Helicobacter pylori infection in Ghanaian patients with dyspeptic symptoms referred for upper gastrointestinal endoscopy. Baako BN, et al. **West Afr J Med** 1996 Oct–Dec;15(4):223–7

Epidemiology of Helicobacter pylori infection in Barbados. Edwards CN, et al. **West Indian Med J** 1997 Mar;46(1):3–7

Helicobacter pylori infection: pediatric aspects. Sinatra FR. **West J Med** 1997 May;166(5):339–40

P53 overexpression in gastric adenocarcinoma with Helicobacter pylori infection. Chang KH, et al. **Yonsei Med J** 1997 Apr;38(2):117–24

Evaluation of therapeutic regimens for the treatment of Helicobacter pylori infection. Lee DH, et al. **Yonsei Med J** 1996 Aug;37(4):270–7

Prevalence of Helicobacter pylori infection and dyspepsia in young adults in Germany. Glasbrenner B, et al. **Z Gastroenterol** 1996 Aug;34(8):478–82

Development of duodenal ulcer concomitant with successful Helicobacter pylori eradication. Pohle T, et al. **Z Gastroenterol** 1997 Jul;35(7):563–5

[Progresses in gastroenterology in China, 1996] Fan D, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):887–8 (0 ref.) **(Chi)**

[Nosocomial transmission of Helicobacter pylori through fiberoptic gastroscopy] Zhao K, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Feb; 17(1):36–9 (Eng. Abstr.) **(Chi)**

[Changes in the treatment of peptic ulcer (editorial)] Xiao S, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):3–4 **(Chi)**

[Antigens in the serologic detection of Helicobacter pylori infection] Havlasová J, et al. **Vnitr Lek** 1997 Feb; 43(2):115–9 (Eng. Abstr.) **(Cze)**

[Infection with Helicobacter pylori and its serologic detection] Havlasová J, et al. **Vnitr Lek** 1997 Feb; 43(2):111–4 (Eng. Abstr.) **(Cze)**

[Helicobacter pylori in 1997] Lassen AT, et al. **Ugeskr Laeger** 1997 Jun 9;159(24):3760–6 (40 ref.) (Eng. Abstr.) **(Dan)**

[The updated guideline 'Gastric complaints' o the Dutch College of General Practitioners; a reaction from a gastroenterologist] Lamers CB. **Ned Tijdschr Geneeskd** 1997 May 17;141(20):982–3 (Eng. Abstr.) **(Dut)**

[Infection with Helicobacter pylori, the end in sight?] Loffeld RJ. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2440–1 (20 ref.) **(Dut)**

[Current viewpoints on diagnosis and treatment of Helicobacter pylori infections] Veenendaal RA, et al. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2469–72 **(Dut)**

[Serological study of the incidence of Helicobacter pylori infection in institutionalized children with brain diseases (letter)] Kalach N, et al. **Arch Pediatr** 1997 Apr;4(4):385–6 **(Fre)**

[Prevalence of Helicobacter pylori infection in Tananarive, Madagascar] Cassel-Béraud AM, et al. **Bull Soc Pathol Exot** 1997;90(1):6–9 (Eng. Abstr.) **(Fre)**

[Ulcer disease and gastritis in time of Helicobacter pylori. Société Nationale Française de Gastro-entérologie et. Société Française de Chirurgie Digestive. Société Française d'Endoscopie Digestive. Société Française de Microbiologie. Société de Pathologie Infectieuse de Langue Française. Groupe d'Etude Français des Helicobacter.] **Gastroenterol Clin Biol** 1996;20(11):1009–12 (0 ref.) **(Fre)**

[Helicobacter pylori, achlorhydria and gastric atrophy: what

kind of "ménage à trois"?] Bretagne JF, et al. **Gastroenterol Clin Biol** 1997;21(2):117–23 (108 ref.) **(Fre)**

[Helicobacter pylori infection and gastric acid secretion] Courillon-Mallet A. **Gastroenterol Clin Biol** 1997; 21(2):139–46 (78 ref.) **(Fre)**

[Gastric MALT lymphoma and Helicobacter pylori (letter)] Moussu P, et al. **Gastroenterol Clin Biol** 1996;20(6–7):613–4 **(Fre)**

[Helicobacter pylori infection in developing countries] Guisset M, et al. **Med Trop (Mars)** 1997;57(1):77–82 (26 ref.) (Eng. Abstr.) **(Fre)**

[The treatment of Helicobacter pylori infection] de Korwin JD, et al. **Presse Med** 1996 Dec 14;25(39):1917–22 (25 ref.) (Eng. Abstr.) **(Fre)**

[Gastric lymphomas: role of Helicobacter pylori] Ruskoné-Fourmestraux A. **Presse Med** 1997 Feb 15; 26(4):184–9 (26 ref.) **(Fre)**

[Helicobacter pylori and MALT gastric lymphomas] Belaiche J. **Rev Med Liege** 1997 May;52(5):352–4 (12 ref.) **(Fre)**

[Ulcerous disease and gastritis at the time of Helicobacter pylori] **Therapie** 1996 May–Jun;51(3):309–18 (0 ref.) **(Fre)**

[Ulcer--an infection?] Eissele R, et al. **Chirurg** 1996 Jan; 67(1):1–6 (35 ref.) (Eng. Abstr.) **(Ger)**

[Diagnosis and therapy of Helicobacter pylori infections in adults (letter; comment)] Bergmann WL. **Dtsch Med Wochenschr** 1997 Mar 14;122(11):348–9. Comment on: Dtsch Med Wochenschr 1996 Nov 1;121(44):1375–8. **(Ger)**

[Diagnosis and therapy of Helicobacter pylori infection in adults (see comments)] Caspary WF, et al. **Dtsch Med Wochenschr** 1996 Nov 1;121(44):1375–8. Comment in: Dtsch Med Wochenschr 1997 Mar 14;122(11):348–9. **(Ger)**

[Helicobacter pylori--talked about by both patients and physicians (editorial)] Caspary WF. **Dtsch Med Wochenschr** 1997 May 16;122(20):633–6 (19 ref.) **(Ger)**

[Stomach cancer and MALT lymphoma: prevention with Helicobacter pylori eradication] Fischbach W. **Dtsch Med Wochenschr** 1997 Aug 1;122(31–32):983–7 (67 ref.) **(Ger)**

[Helicobacter pylori--when and how do gastroenterologists treat themselves? A clinical and practical survey] Labenz J, et al. **Dtsch Med Wochenschr** 1997 May 16; 122(20):637–42 (Eng. Abstr.) **(Ger)**

[Functional dyspepsia: approved equal to approved therapy? (letter)] Müller P, et al. **Dtsch Med Wochenschr** 1997 Apr 4;122(14):461 **(Ger)**

[Flies--reservoirs and vectors of Helicobacter pylori] Grübel P, et al. **Fortschr Med** 1997 Jan 30;115(3):35–6 (Eng. Abstr.) **(Ger)**

[Triple ranitidine therapy in Helicobacter pylori infection. Recommendation for effective, safe and cost effective combination for Helicobacter pylori eradication] Miederer S. **Fortschr Med** 1996 Nov 30;114(33):460–2 (Eng. Abstr.) **(Ger)**

[Association of chronic urticaria with Helicobacter pylori-induced antrum gastritis] Bohmeyer J, et al. **Hautarzt** 1996 Feb;47(2):106–8 (Eng. Abstr.) **(Ger)**

[Detection of Helicobacter pylori in dermatoses. Clinical incidental finding or pathogenetic association?] Tebbe B, et al. **Hautarzt** 1996 Aug;47(8):587–90 (29 ref.) (Eng. Abstr.) **(Ger)**

[Diagnosis and therapy of Helicobacter pylori infection. Guidelines of the German Society of Digestive and Metabolic Diseases. Working Group of the German Society of Digestive and Metabolic Diseases] Caspary WF, et al. **Leber Magen Darm** 1996 Nov;26(6):301–4, 307–9 **(Ger)**

[Current developments in Helicobacter pylori therapy] Labenz J. **Leber Magen Darm** 1996 Jul;26(4):223–6 (0 ref.) **(Ger)**

[Infections caused by Helicobacter pylori] Stock I, et al. **Med Monatsschr Pharm** 1997 Jan;20(1):2–8 (10 ref.) **(Ger)**

[Comparative effect of lansoprazole/amoxicillin with omeprazole/amoxicillin for the eradication of Helicobacter pylori in patients with duodenal ulcer] Kayser S, et al. **Schweiz Med Wochenschr** 1997 Apr 26;127(17):722–7 (Eng. Abstr.) **(Ger)**

[Gastrin and its role in the development of ulcer disease] Lehmann FS. **Schweiz Med Wochenschr** 1997 Apr 5; 127(14):579–84 (35 ref.) (Eng. Abstr.) **(Ger)**

[Effectiveness of short-term triple therapy for healing Helicobacter pylori infection in ulcer disease] Kobler E, et al. **Schweiz Med Wochenschr Suppl** 1997;89:14S–16S (Eng. Abstr.) **(Ger)**

[Helicobacter pylori and ulcer disease: diagnosis and treatment 1995] Kayser S, et al. **Schweiz Rundsch Med Prax** 1996 Sep 24;85(39):1197–200 (Eng. Abstr.) **(Ger)**

[Relevance of antigastric autoantibodies in Helicobacter pylori gastritis] Faller G, et al. **Verh Dtsch Ges Pathol** 1996; 80:181–4 (Eng. Abstr.) **(Ger)**

[Lymphocytic gastritis: autoimmune disease or variant of Helicobacter gastritis?] Kushima R, et al. **Verh Dtsch Ges Pathol** 1996;80:208–11 (Eng. Abstr.) **(Ger)**

[1997 Paul Ehrlich and Ludwig Darmstaedter Prize for the rediscovery of Helicobacter pylori to J. Robin Warren and Barry J. Marshall] Caspary WF. **Z Gastroenterol** 1997 Apr; 35(4):239–46 **(Ger)**

[Meta-analysis should be regarded with extreme caution (letter; comment)] Miehlke S, et al. **Z Gastroenterol** 1996 Aug;34(8):XVIII–XX; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**

[Meta-analysis raises more questions, than it answers (letter; comment)] Petersen KU. **Z Gastroenterol** 1996 Aug; 34(8):XVII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**

[Meta-analyses are hardly suitable for conclusively proving medical controversies (letter; comment)] Stolte M. **Z Gastroenterol** 1996 Aug;34(8):XVII–XVIII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**

[Treatment of Helicobacter pylori positive ulcer--the search for simple and effective therapy (editorial)] Eliakim R, et al. **Harefuah** 1996 Nov 15;131(10):405–6 **(Heb)**

[Epidemiology of Helicobacter pylori] Ytzhak A, et al. **Harefuah** 1997 Mar 2;132(5):357–60 (29 ref.) **(Heb)**

[Connection between Helicobacter pylori infection and chronic gastrointestinal urticaria] Kalas D, et al. **Orv Hetil** 1996 Sep 8;137(36):1969–72 (Eng. Abstr.) **(Hun)**

[Effect of homogenized human pathogenic Helicobacter pylori on the viability of isolated rat gastric mucosal cells] Mózsik G, et al. **Orv Hetil** 1996 Aug 11;137(32):1749–52 (Eng. Abstr.) **(Hun)**

[Helicobacter pylori infection in childhood (editorial)] Rigillo N, et al. **Minerva Pediatr** 1996 Jan–Feb;48(1–2):1–9 (40 ref.) **(Ita)**

[Helicobacter pylori infection as a cause of recurrent abdominal pain in children] Cinquetti M, et al. **Pediatr Med Chir** 1997 Jan–Feb;19(1):17–21 (Eng. Abstr.) **(Ita)**

[The eradication of Helicobacter pylori and the prevention of ulcer recurrence. The certainties and the open problems] Dobrilla G. **Recenti Prog Med** 1996 Jun;87(6):290–300 (60 ref.) (Eng. Abstr.) **(Ita)**

[The role of the laboratory in the diagnosis and monitoring of Helicobacter pylori infection (editorial)] Plebani M, et al. **Recenti Prog Med** 1996 Jun;87(6):280–4 (Eng. Abstr.) **(Ita)**

[The modes of transmission of Helicobacter pylori infection] Tursi A, et al. **Recenti Prog Med** 1997 May;88(5):232–6 (56 ref.) (Eng. Abstr.) **(Ita)**

[Eradication of Helicobacter pylori in patients with end-stage renal disease undergoing dialysis treatment] Tokushima H, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug;38(8):349–55 (Eng. Abstr.) **(Jpn)**

[Helicobacter pylori and malignant stomach neoplasms] Asaka M. **Nippon Naika Gakkai Zasshi** 1996 May 10; 85(5):767–71 (18 ref.) **(Jpn)**

[Helicobacter pylori infection--from gastritis to stomach cancer] Asaka M. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1540–5 (12 ref.) **(Jpn)**

[Gastric MALT lymphoma and Helicobacter pylori infection] Chiba T. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):233–40 (57 ref.) **(Jpn)**

[Two step therapy for education of Helicobacter pylori] Matsukura N. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug; 94(8):569 **(Jpn)**

[Methodological study of 13C-urea breath test for detection of Helicobacter pylori infection] Ohara S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):530–6 (Eng. Abstr.) **(Jpn)**

[A case of gastric MALT lymphoma regressed endoscopically and pathologically after eradication of Helicobacter pylori] Seko A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):21–6 **(Jpn)**

[The course of gastric type epithelium in duodenal ulcer and duodenitis; role on the eradication of Helicobacter pylori] Urakami Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):893–902 (Eng. Abstr.) **(Jpn)**

[The contents of the stomach was full of 13CO2 gas in patients with Helicobacter pylori after oral administration of 13C-urea] Urita Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):229 **(Jpn)**

[Time course of disappearance of Helicobacter pylori after topical therapy and new triple therapy] Wang XM, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):79 **(Jpn)**

[Helicobacter pylori and stomach ulcer--diagnosis and treatment in primary health care (letter)] Melby KK. **Tidsskr Nor Laegeforen** 1996 Nov 20;116(28):3392 **(Nor)**

[Changes in gastric mucosa and Helicobacter pylori infection in young health volunteers] Muszyński J, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):169–73 (Eng. Abstr.) **(Pol)**

[Morphologic changes of gastric mucosa in Helicobacter pylori infection in patients with peptic ulcer disease and chronic gastritis] Raczyńska A, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):165–8 (Eng. Abstr.) **(Pol)**

[Helicobacter pylori infection and gastric secretion (editorial)] Zaremba-Woroniecka A, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):157–60 **(Pol)**

[Helicobacter pylori infection is carcinogenic for humans] Aruin LI. **Arkh Patol** 1997 May–Jun;59(3):74–8 (53 ref.) (Eng. Abstr.) **(Rus)**

[Role of Helicobacter pylori in the etiology of duodenal ulcer recurrence after selective proximal vagotomy] Mitrokhina TV, et al. **Khirurgiia (Mosk)** 1996;(2):39–42 (Eng. Abstr.) **(Rus)**

[Clinical and morphological aspects of Helicobacter pylori invasion in reflux esophagitis] Galimov OV, et al. **Klin Khir** 1997;(1):17–8 (Eng. Abstr.) **(Rus)**

[Reflux gastritis due to Helicobacter pylori as the cause of unsatisfactory results of cholecystectomy] Gnatiuk NG, et al. **Klin Khir** 1997;(1):16–7 (Eng. Abstr.) **(Rus)**

[Helicobacter pylori: role in the onset of chronic gastritis and ulcer] Tsimmerman IS, et al. **Klin Med (Mosk)** 1997; 75(4):8–13 (60 ref.) **(Rus)**

[Patient Helicobacter pylori infectivity after gastric resection] Potashov LV, et al. **Vestn Khir Im I I Grek** 1996; 155(6):17–20 (Eng. Abstr.) **(Rus)**

[The diagnosis of Helicobacter infections in patients with gastric and duodenal peptic ulcers] Potashov LV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov–Dec; (6):11–3 (Eng. Abstr.) **(Rus)**

[Triple-therapy treatment during 1 month versus 2 weeks in gastroduodenal disease due to Helicobacter pylori in children] Cilleruelo Pascual ML, et al. **An Esp Pediatr** 1996 May;44(5):456–60 (Eng. Abstr.) **(Spa)**

[Again "down with the cells! up with the microbes!"?] Albarracín Teulon A. **An R Acad Nac Med (Madr)** 1996; 113(2):443–53 **(Spa)**

[Current criteria for the treatment of peptic ulcer] Díaz-Rubio García DM. **An R Acad Nac Med (Madr)** 1996; 113(1):213–21; discussion 221–5 **(Spa)**

[Helicobacter pylori and gastroduodenal pathology: its pathogenesis, diagnosis and therapeutic guidelines] Muñoz Gutiérrez J, et al. **Aten Primaria** 1997 Apr 30;19(7):377–82 (51 ref.) **(Spa)**

[One-week treatment with omeprazole, clarithromycin and amoxicillin: high efficacy in the eradication of Helicobacter pylori and cicatrization of duodenal ulcer] Gisbert JP, et al. **Med Clin (Barc)** 1997 Apr 12;108(14):524–9 (Eng. Abstr.) **(Spa)**

[Helicobacter pylori (letter; comment)] Macipe Costa RM, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):317. Comment on: Med Clin (Barc) 1995 Nov 4;105(15):576–9. **(Spa)**

[Infection by Helicobacter pylori and gastroduodenal disease: who should be treated (letter; comment)] Muñoz J, et al. **Med Clin (Barc)** 1997 Jan 11;108(1):34. Comment on: Med Clin (Barc) 1995 Nov 4;105(15):576–9. **(Spa)**

[Why, when and how to treat Helicobacter pylori infection in gastroduodenal ulcer disease?] Gisbert JP, et al. **Rev Clin Esp** 1996 Sep;196(9):610–21 (248 ref.) **(Spa)**

[Erradicating treatment of Helicobacter pylori with lansoprazole and amoxicillin in duodenal ulcer patients] Gisbert JP, et al. **Rev Clin Esp** 1996 Sep;196(9):588–93 (Eng. Abstr.) **(Spa)**

[What is the current role of clarithromycin in the eradication of Helicobacter pylori?] Gisbert JP, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):305–12 (108 ref.) **(Spa)**

[Is there a correlation between the values of breath tests and the response to the treatment for the eradication of Helicobacter pylori? (letter)] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Jul;88(7):465–9 (Eng. Abstr.) **(Spa)**

[Is gastric cancer an infectious disease?] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Aug;88(8):555–62 (91 ref.) **(Spa)**

[Breath test in the diagnosis of Helicobacter pylori infection: concordance with histological methods and correlation with anatomopathological lesions of the gastric mucosa] Gisbert JP, et al. **Rev Esp Enferm Dig** 1996 Apr; 88(4):259–64 (Eng. Abstr.) **(Spa)**

[Survey on Helicobacter pylori and peptic ulcer in Spain] Pajares García JM, et al. **Rev Esp Enferm Dig** 1996 Oct; 88(10):695–9 (Eng. Abstr.) **(Spa)**

[The efficacy of using a short course of 6-day duration (OCA-6) in the treatment to eradicate Helicobacter pylori infection. Omeprazole, clarithromycin, amoxicillin (letter)] Rodrigo Sáez L, et al. **Rev Esp Enferm Dig** 1997 Feb; 89(2):146–7 **(Spa)**

[Mexican consensus on Helicobacter pylori. National Consensus Group of the Mexican Association of Gastroenterology] **Rev Gastroenterol Mex** 1997 Jan–Mar; 62(1):41–5 (0 ref.) **(Spa)**

[Non-ulcerative dyspepsia associated with H. pylori: indications for eradication?] Dehesa Violante M. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S40–2 **(Spa)**

[Helicobacter pylori infection and gastric cancer in Mexico. A challenge for prevention and population control] López Carrillo L, et al. **Rev Gastroenterol Mex** 1997 Jan–Mar; 62(1):22–8 (Eng. Abstr.) **(Spa)**

[Swedish registries are of favour for epidemiological research] Lennholm B. **Lakartidningen** 1996 Nov 27; 93(48):4436 **(Swe)**

[A holistic perspective in a new Swedish study. Connection between H pylori and cancer] Lennholm B. **Lakartidningen** 1996 Nov 27;93(48):4432–5 **(Swe)**

[H pylori--the most common infection in the world. Treatment should be based on correct indication!] Sjölund K, et al. **Lakartidningen** 1997 Aug 27;94(35):2909–10 **(Swe)**

[Helicobacter pylori may cause stomach cancer. The connection is not yet completely surveyed] Wadström T, et al. **Lakartidningen** 1997 Aug 27;94(35):2947–50 (15 ref.)

(Swe)
[The effect of tactivin and the intraduodenal administration of drug mixtures on the efficacy of the therapy of duodenal peptic ulcer] Katerenchuk ip. **Lik Sprava** 1996 Mar–Apr; (3–4):60–3 (Eng. Abstr.) (Ukr)

CHEMISTRY

Helicobacter pylori lipopolysaccharide induces gastric epithelial cells apoptosis. Piotrowski J, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):597–602

Comparison of the nucleic acids of helical and coccoid forms of Helicobacter pylori. Narikawa S, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):285–90

Recognition of glycoconjugates by Helicobacter pylori: an apparently high-affinity binding of human polyglycosylceramides, a second sialic acid–based specificity. Miller-Podraza H, et al. **Glycoconj J** 1996 Jun; 13(3):453–60

Identification, characterization, and immunogenicity of the lactoferrin-binding protein from Helicobacter pylori. Dhaenens L, et al. **Infect Immun** 1997 Feb;65(2):514–8

Identification of the N-acetylneuraminyllactose-specific laminin-binding protein of Helicobacter pylori. Valkonen KH, et al. **Infect Immun** 1997 Mar;65(3):916–23

A flagellar sheath protein of Helicobacter pylori is identical to HpaA, a putative N-acetylneuraminyllactose-binding hemagglutinin, but is not an adhesin for AGS cells. Jones AC, et al. **J Bacteriol** 1997 Sep;179(17):5643–7

Effect of Helicobacter pylori lipopolysaccharide (LPS) and LPS derivatives on the production of tissue factor and plasminogen activator inhibitor type 2 by human blood mononuclear cells. Semeraro N, et al. **J Infect Dis** 1996 Dec;174(6):1255–60

CLASSIFICATION

PCR-RFLP typing of ureC from Helicobacter pylori isolated in Argentina from gastric biopsies before and after treatment with clarithromycin. Stone GG, et al. **Epidemiol Infect** 1997 Apr;118(2):119–24

The clinical relevance of strain types of Helicobacter pylori. Atherton JC. **Gut** 1997 Jun;40(6):701–3 (36 ref.)

Analysis and typing of the vacA gene from cagA-positive strains of Helicobacter pylori isolated in Japan. Ito Y, et al. **J Clin Microbiol** 1997 Jul;35(7):1710–4

Molecular typing of Helicobacter pylori isolates from a multicenter U.S. clinical trial by ureC restriction fragment length polymorphism. Shortridge VD, et al. **J Clin Microbiol** 1997 Feb;35(2):471–3

Molecular typing of Helicobacter pylori: differences in pathogenicity among diverse strains. Ito A, et al. **J Gastroenterol** 1996 Feb;31(1):1–5

CYTOLOGY

Morphologic conversion of Helicobacter pylori from bacillary to coccoid form. Sörberg M, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):216–9

Coccoid and spiral Helicobacter pylori differ in their abilities to adhere to gastric epithelial cells and induce interleukin-8 secretion. Cole SP, et al. **Infect Immun** 1997 Feb; 65(2):843–6

Coccoid forms of Helicobacter pylori are the morphologic manifestation of cell death. Kusters JG, et al. **Infect Immun** 1997 Sep;65(9):3672–9

Urease-independent chemotactic responses of Helicobacter pylori to urea, urease inhibitors, and sodium bicarbonate. Mizote T, et al. **Infect Immun** 1997 Apr;65(4):1519–21

Is the coccoid form of Helicobacter pylori viable? Hua J, et al. **Microbios** 1996;87(351):103–12

[Study on coccoid formation of Helicobacter pylori] Taguchi H, et al. **Kansenshogaku Zasshi** 1997 Jun;71(6):545–6 (Jpn)

DRUG EFFECTS

"Modern therapies for Helicobacter pylori infection". Go MF. **Acta Gastroenterol Latinoam** 1996;26(2):119–23

Enhanced eradication of Helicobacter pylori by pre- versus post-prandial amoxycillin suspension with omeprazole: implications for antibiotic delivery. Atherton JC, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):631–5

Symptomatic and endoscopic duodenal ulcer relapse rates 12 months following Helicobacter pylori eradication treatment with omeprazole and amoxycillin with or without metronidazole. Bell GD, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):637–44

Conference report: duodenal ulcer trials reported at the European Helicobacter pylori Study Group, Edinburgh 1995. Bell GD. **Aliment Pharmacol Ther** 1996 Feb; 10(1):49–54

Helicobacter pylori eradication and its implications for the future. Blaser MJ. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:103–7 (26 ref.)

Long-term follow-up after cure of Helicobacter pylori infection with 4 days of quadruple therapy. Lai JY, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):645–50

Resistance of Helicobacter pylori to antibiotics. Mégraud F. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:43–53 (39 ref.)

One-week triple therapy with omeprazole, amoxycillin and tinidazole for Helicobacter pylori infection: the significance of imidazole resistance. Thijs JC, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):305–9

The safety and efficacy of ranitidine bismuth citrate in combination with antibiotics for the eradication of Helicobacter pylori. Wyeth JW, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):623–30

Does pretreatment with omeprazole decrease the chance of eradication of Helicobacter pylori in peptic ulcer patients? Annibale B, et al. **Am J Gastroenterol** 1997 May;92(5):790–4

Minimum inhibitory concentration of various single agents and the effect of their combinations against Helicobacter pylori, as estimated by a fast and simple in vitro assay method. Bamba H, et al. **Am J Gastroenterol** 1997 Apr; 92(4):659–62

Helicobacter pylori does not migrate from the antrum to the corpus in response to omeprazole [see comments] Graham DY, et al. **Am J Gastroenterol** 1996 Oct;91(10):2120–4. Comment in: Am J Gastroenterol 1997 Apr;92(4):720–1.

Eradication of H. pylori in a developing country: comparison of lansoprazole versus omeprazole with norfloxacin, in a dual-therapy study. Gupta VK, et al. **Am J Gastroenterol** 1997 Jul;92(7):1140–2

Six months' experience with a pharmacist-run Helicobacter pylori treatment clinic. Patchin GM, et al. **Am J Health Syst Pharm** 1996 Sep 1;53(17):2081–2

Transmission of Helicobacter pylori infection via flexible fiberoptic endoscopy [see comments] Akamatsu T, et al. **Am J Infect Control** 1996 Oct;24(5):396–401. Comment in: Am J Infect Control 1996 Oct;24(5):343–5.

Helicobacter pylori eradication for the treatment of low-grade gastric MALT lymphoma: follow-up together with sequential molecular studies. Montalban C, et al. **Ann Oncol** 1997;8 Suppl 2:37–9

In vitro susceptibility of Helicobacter pylori to protolichesterinic acid from the lichen Cetraria islandica. Ingolfsdottir K, et al. **Antimicrob Agents Chemother** 1997 Jan;41(1):215–7

Unique susceptibility of Helicobacter pylori to simethicone emulsifiers in alimentary therapeutic agents. Kane AV, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):500–2

In vitro synergy testing of clarithromycin and 14-hydroxyclarithromycin with amoxicillin or bismuth subsalicylate against Helicobacter pylori. Meyer JM, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1607–8

Is bactericidal activity of amoxicillin against Helicobacter pylori concentration dependent? [letter; comment] Midolo PD, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1327–8. Comment on: Antimicrob Agents Chemother 1995 Aug;39(8):1859–61.

Oxygen concentration influences proton pump inhibitor activity against Helicobacter pylori in vitro. Midolo PD, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1531–3

Susceptibility of Helicobacter pylori to bactericidal properties of medium-chain monoglycerides and free fatty acids. Petschow BW, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):302–6

Basis for the selective antibacterial activity in vitro of proton pump inhibitors against Helicobacter spp. Sjøstrøm JE, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1797–801

A PCR-oligonucleotide ligation assay to determine the prevalence of 23S rRNA gene mutations in clarithromycin-resistant Helicobacter pylori. Stone GG, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):712–4

Mutations in 23S rRNA are associated with clarithromycin resistance in Helicobacter pylori. Versalovic J, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):477–80

Susceptibility of Helicobacter pylori and Candida spp. to the east African plant Terminalia spinosa. Fabry W, et al. **Arzneimittelforschung** 1996 May;46(5):539–40

In vitro anti-Helicobacter pylori activity of ebrotidine. Palacín C, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):471–4

Anti-Helicobacter pylori activities of ebrotidine. A review of biochemical and animal experimental studies and data. Slomiany BL, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):475–82 (64 ref.)

On the antibacterial activity of normal and reversed magainin 2 analogs against Helicobacter pylori. Iwahori A, et al. **Biol Pharm Bull** 1997 Jul;20(7):805–8

Eradication of Helicobacter pylori: an objective assessment of current therapies. Penston JG, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):223–43 (376 ref.)

A pilot study of a randomized controlled trial of pragmatic eradication of Helicobactor pylori in primary care. Hippisley-Cox J, et al. **Br J Gen Pract** 1997 Jun; 47(419):375–7

Helicobacter pylori: primary susceptibility to clarithromycin in vitro in Nova Scotia. Best LM, et al. **Can J Gastroenterol** 1997 May-Jun;11(4):298–300

Which proton pump inhibitor should we use? Williams CN. **Can J Gastroenterol** 1997 Jan-Feb;11(1):29

Activity of east African medicinal plants against Helicobacter pylori. Fabry W, et al. **Chemotherapy** 1996 Sep–Oct; 42(5):315–7

The effect of cimetidine on serum acidic markers and Helicobacter pylori in gastric ulcer subjects. Lee CT, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan; 57(1):28–33

Omeprazole plus amoxicillin versus triple therapy eradicates Helicobacter pylori in the Chinese with peptic ulcer disease. Wang K, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Mar; 57(3):184–90

Antimicrobial susceptibility testing of Helicobacter pylori. Comparison of E-test, broth microdilution, and disk diffusion for ampicillin, clarithromycin, and metronidazole. Hachem CY, et al. **Diagn Microbiol Infect Dis** 1996 Jan; 24(1):37–41

Gastritis and Helicobacter pylori: forty years of antibiotic therapy. Lieber CS. **Digestion** 1997;58(3):203–10 (62 ref.)

A risk–benefit assessment of drugs used in the eradication of Helicobacter pylori infection. Hackelsberger A, et al. **Drug Saf** 1996 Jul;15(1):30–52 (277 ref.)

Pylorid, H. pylori and peptic ulcer. **Drug Ther Bull** 1996 Sep;34(9):69–70

Clarithromycin and omeprazole as helicobacter pylori eradication therapy in patients with H. pylori–associated gastric disorders. Markham A, et al. **Drugs** 1996 Jan; 51(1):161–78 (67 ref.)

Rapid increase in the prevalence of metronidazole-resistant Helicobacter pylori in the Netherlands. van der Wouden EJ, et al. **Emerg Infect Dis** 1997 Jul–Sep;3(3):385–9

Sensitivity of Helicobacter pylori to metronidazole. Bateson MC, et al. **Eur J Cancer Prev** 1997 Jun;6(3):300–2

In vitro activity of omeprazole in combination with several antimicrobial agents against clinical isolates of Helicobacter pylori. Alarcón T, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec;15(12):937–40

Risks related to lack of standardization of tests to detect in vitro metronidazole resistance in Helicobacter pylori. Henriksen TH, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):484–8

Evaluation of rapid molecular methods for detection of clarithromycin resistance in Helicobacter pylori. Szczebara F, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb; 16(2):162–4

Prevalence of primary Helicobacter pylori resistance to metronidazole and clarithromycin in The Netherlands. van Zwet AA, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov; 15(11):861–4

How to treat Helicobacter pylori infection—should treatment strategies be based on testing bacterial susceptibility? A personal viewpoint. de Boer WA, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):709–16 (59 ref.)

Eradication of Helicobacter pylori in peptic ulcer disease with amoxycillin, 2.0 g, and omeprazole, 80 or 120 mg: a prospective randomized trial. Fleischmann R, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):593–8

Update on Helicobacter pylori research. Eradication. Graham DY, et al. **Eur J Gastroenterol Hepatol** 1997 Jun; 9(6):626–8

Ranitidine in a twice daily triple therapy regimen for the eradication of Helicobacter pylori [letter; comment] Harris A. **Eur J Gastroenterol Hepatol** 1997 May;9(5):544. Comment on: Eur J Gastroenterol Hepatol 1996 Dec;8(12):1169–73.

Clarithromycin or amoxycillin plus high-dose ranitidine in the treatment of Helicobacter pylori–positive functional dyspepsia. Schütze K, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):41–6

Effect of omeprazole on Helicobacter pylori urease activity in vivo. Stoschus B, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):811–3

Inhibition of Helicobacter pylori by garlic extract (Allium sativum). Cellini L, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):273–7

Capsaicin as an inhibitor of the growth of the gastric pathogen Helicobacter pylori. Jones NL, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):223–7

Regression of duodenal mucosa-associated lymphoid tissue lymphoma after eradication of Helicobacter pylori. Nagashima R, et al. **Gastroenterology** 1996 Dec; 111(6):1674–8

Ranitidine bismuth citrate with clarithromycin for the treatment of duodenal ulcer. Bardhan KD, et al. **Gut** 1997 Aug;41(2):181–6

Inhibition of Helicobacter pylori binding to gastrointestinal epithelial cells by sialic acid–containing oligosaccharides. Simon PM, et al. **Infect Immun** 1997 Feb;65(2):750–7

Eradication of Helicobacter pylori: the results of a pilot study of 3, 5 & 7 day triple antibiotic regime with bismuth for one month. O'Connor HJ, et al. **Ir J Med Sci** 1997 Jan–Mar; 166(1):32–4

In-vitro activities of clarithromycin and other antimicrobial agents against Helicobacter pylori isolated from children [letter] Dhaenens L, et al. **J Antimicrob Chemother** 1996 Aug;38(2):318–9

In-vitro activity of lansoprazole against Helicobacter pylori. Figura N, et al. **J Antimicrob Chemother** 1997 May; 39(5):585–90

Kill kinetics of antimicrobial agents against Helicobacter pylori. Flamm RK, et al. **J Antimicrob Chemother** 1996 Oct;38(4):719–25

In-vitro activity of azithromycin in against intracellular Helicobacter pylori. Hulten K, et al. **J Antimicrob Chemother** 1996 Mar;37(3):483–9

Bactericidal effect of plaunotol, a cytoprotective antiulcer agent, against Helicobacter pylori. Koga T, et al. **J Antimicrob Chemother** 1996 Sep;38(3):387–97

In-vitro and in-vivo antibacterial activity of plaunotol, a cytoprotective antiulcer agent, against Helicobacter pylori. Koga T, et al. **J Antimicrob Chemother** 1996 May; 37(5):919–29

Bactericidal activity and synergy studies of proton pump inhibitors and antibiotics against Helicobacter pylori in

vitro. Midolo PD, et al. **J Antimicrob Chemother** 1997 Mar; 39(3):331–7

Clarithromycin resistance in Helicobacter pylori: prevalence in untreated dyspeptic patients and stability in vitro. Xia HX, et al. **J Antimicrob Chemother** 1996 Mar;37(3):473–81

Influence of medium composition on the growth and antigen expression of Helicobacter pylori. Walsh EJ, et al. **J Appl Microbiol** 1997 Jul;83(1):67–75

Effects of sucralfate on vacuolating cytotoxin activity and adherence of Helicobacter pylori to human gastric epithelial cells. Smoot DT, et al. **J Assoc Acad Minor Phys** 1996;7(4):88–92

Activity of amoxicillin, metronidazole, bismuth salicylate and six aminoglycosides against Helicobacter pylori. Brenciaglia MI, et al. **J Chemother** 1996 Feb;8(1):52–4

Inhibitory and bactericidal activity of rokitamycin against Helicobacter pylori and morphological alterations. Brenciaglia MI, et al. **J Chemother** 1996 Dec;8(6):425–31

A simple method for determining metronidazole resistance of Helicobacter pylori. Henriksen TH, et al. **J Clin Microbiol** 1997 Jun;35(6):1424–6

Direct activity of recombinant human lactoferrin against Helicobacter pylori. Miehlke S, et al. **J Clin Microbiol** 1996 Oct;34(10):2593–4

Comparative evaluation of the E test, agar dilution, and broth microdilution for testing susceptibilities of Helicobacter pylori strains to 20 antimicrobial agents. Piccolomini R, et al. **J Clin Microbiol** 1997 Jul;35(7):1842–6

Amoxicillin for the treatment of Helicobacter pylori infection. Hirschl AM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:44–7

Anti-Helicobacter pylori agents. 1. 2-(Alkylguanidino)-4-furylthiazoles and related compounds. Katsura Y, et al. **J Med Chem** 1997 Aug 1; 40(16):2462–5

Synthesis, gastroprotective, antisecretory and anti-Helicobacter effect of N-[3-(3-(1-piperidinylmethyl) phenoxy)propyl]-hydroxyacetamide 2-hydroxypropane-1,2,3-tricarboxylate bismuth (3+) complex (MX1)-MX1. Ivanov C, et al. **J Pharm Pharmacol** 1996 Mar;48(3):297–301

Bactericidal effect of ecabet sodium on clarithromycin- and metronidazole-resistant clinical isolates of Helicobacter pylori. Shibata K, et al. **Jpn J Antibiot** 1997 Jun; 50(6):525–31

Helicobacter pylori infection and serum pepsinogen I concentration in peptic ulcer patients: effect of bacterial eradication. Park SM, et al. **Korean J Intern Med** 1996 Jan;11(1):1–8

Incidental eradication of Helicobacter pylori [letter; comment] Harris A, et al. **Lancet** 1997 Jan 4;349(9044):59 . Comment on: Lancet 1996 Nov 16;348(9038):1390–1.

Incidental eradication of Helicobacter pylori by antibiotics given for unrelated conditions and declining incidence of gastric carcinoma [letter; comment] Simini B. **Lancet** 1996 Nov 16;348(9038):1390–1. Comment on: Lancet 1997 Jan 4;349(9044):59.

Susceptibility of Helicobacter pylori isolates against agents commonly administered for eradication therapy and the efficacy of chemotherapy. Gotoh A, et al. **Microbiol Immunol** 1997;41(1):7–12

Helicobacter pylori--in vitro susceptibility to garlic (Allium sativum) extract. Sivam GP, et al. **Nutr Cancer** 1997; 27(2):118–21

Atypical lymphoid infiltrations of the gastric mucosa--their interpretation and management by eradication of Helicobacter pylori. Eidt S, et al. **Pathol Res Pract** 1996 Jun;192(6):560–5

The chemotherapeutic effects of H+/K+ inhibitors on Helicobacter pylori infection. Logan RP. **Pharmacol Ther** 1996;69(1):79–83

Increased motility of Helicobacter pylori by methylcellulose could upregulate the expression of proinflammatory cytokines in human gastric epithelial cells. Jung HC, et al. **Scand J Clin Lab Invest** 1997 May;57(3):263–70

Dual and triple therapy regimens of antisecretory agents and antibiotics for the eradication of Helicobacter pylori: an overview. Ciociola AA, et al. **Scand J Gastroenterol Suppl** 1996;218:3–9 (119 ref.)

The diagnostic value of enzyme immunoassay and immunoblot in monitoring eradication of Helicobacter pylori. Sörberg M, et al. **Scand J Infect Dis** 1997; 29(2):147–51

Pharmacological therapy of Helicobacter pylori infection. Hoffman JS. **Semin Gastrointest Dis** 1997 Jul;8(3):156–63

Antibacterial activity of trichorabdal A from Rabdosia trichocarpa against Helicobacter pylori. Kadota S, et al. **Zentralbl Bakteriol** 1997 Jun;286(1):63–7

[Helicobacter pylori eradication: triple therapy versus dual therapy] Dammann HG. **Fortschr Med** 1996 Feb 10; 114(4):34–8 (34 ref.) (Eng. Abstr.) **(Ger)**

[Anti-Helicobacter pylori therapy. Who should be treated, how, how long?] Lux G. **Fortschr Med** 1996 Aug 20; 114(22–23):273–5 **(Ger)**

[Is gastric acid secretion inhibition necessary for successful eradication of Helicobacter pylori?] Müller P, et al. **Fortschr Med** 1996 Aug 20;114(22–23):275–6 **(Ger)**

[Helicobacter pylori eradication: modified triple therapy with lansoprazole] Müller P, et al. **Fortschr Med** 1996 Dec 20; 114(35–36):497–9 (17 ref.) (Eng. Abstr.) **(Ger)**

[Eradication of Helicobacter pylori infection. A new therapy standard for duodenal ulcer] Caspary WF, et al. **Internist (Berl)** 1996 Dec;37(12):1204–11 (41 ref.) **(Ger)**

[Good results with Helicobacter pylori eradication for treatment of non-ulcer dyspepsia (letter)] Bock H, et al. **Leber Magen Darm** 1996 Sep;26(5):268 **(Ger)**

[Long-term inhibition of gastric acid secretion. Evaluation and healing of Helicobacter pylori infection? (editorial)] Labenz J, et al. **Leber Magen Darm** 1996 Sep;26(5):241–2 **(Ger)**

[Helicobacter pylori eradication: finally clarity (editorial)] Labenz J. **Leber Magen Darm** 1996 Nov;26(6):282–3 **(Ger)**

[Helicobacter pylori eradication therapy with bismuth citrate/amoxycillin combination therapy] Stanescu A, et al. **Leber Magen Darm** 1996 Jan;26(1):32–6 (Eng. Abstr.) **(Ger)**

[Immune responses of IgG, IgA and anti-CagA IgG to Helicobacter pylori in dyspeptic and peptic ulcer patients] Tamássy K, et al. **Orv Hetil** 1997 Apr 20;138(16):985–8 (27 ref.) (Eng. Abstr.) **(Hun)**

[Anti-Helicobacter pylori activity in the garlic extract] Wong RM, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Sep; 93(9):688 **(Jpn)**

[Eradication of Helicobacter pylori and chronic abdominal pain (editorial)] Madrazo de la Garza JA. **Rev Gastroenterol Mex** 1996 Oct-Dec;61(4):398–9 **(Spa)**

[Eradication of Helicobacter pylori in patients with recurrent abdominal pain using a triple drug treatment] Ramírez Mayans J, et al. **Rev Gastroenterol Mex** 1996 Oct-Dec; 61(4):310–3 (Eng. Abstr.) **(Spa)**

[Ragnar Norrby on antibiotic resistance. Treatment of H pylori may result in a horror scenario] Norrby R. **Lakartidningen** 1996 Nov 20;93(47):4267–8 **(Swe)**

ENZYMOLOGY

The Pyloritek test and the CLO test: accuracy and incremental cost analysis. Puetz T, et al. **Am J Gastroenterol** 1997 Feb;92(2):254–7

Cloning, sequencing, expression, purification and preliminary characterization of a type II dehydroquinase from Helicobacter pylori. Bottomley JR, et al. **Biochem J** 1996 Oct 15;319 (Pt 2):559–65

Susceptibility of growth factors to degradation by Helicobacter pylori protease: effect of ebrotidine and sucralfate. Slomiany BL, et al. **Biochem Mol Biol Int** 1996 Sep;40(1):209–15

Suppression of Helicobacter pylori urease activity by sucralfate and sulglycotide. Slomiany BL, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):155–61

Kinetic studies of Helicobacter pylori urease inhibition by a novel proton pump inhibitor, rabeprazole. Park JB, et al. **Biol Pharm Bull** 1996 Feb;19(2):182–7

Helicobacter pylori and proteolytic activity. Nilius M, et al. **Eur J Clin Invest** 1996 Dec;26(12):1103–6

Effect of omeprazole on Helicobacter pylori urease activity in vivo. Stoschus B, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):811–3

Lack of evidence for sialidase activity in Helicobacter pylori. Hirmo S, et al. **FEMS Immunol Med Microbiol** 1997 Feb; 17(2):67–72

A flagellar-specific ATPase (FliI) is necessary for flagellar export in Helicobacter pylori. Jenks PJ, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):205–11

Hydrogen uptake hydrogenase in Helicobacter pylori. Maier RJ, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):71–6

Prospective comparison of commercially available rapid urease tests for the diagnosis of Helicobacter pylori. Laine L, et al. **Gastrointest Endosc** 1996 Nov;44(5):523–6

Does using a warmer influence the results of rapid urease testing for Helicobacter pylori? [letter; comment] Yousfi MM, et al. **Gastrointest Endosc** 1996 Mar;43(3):260–1. Comment on: Gastrointest Endosc 1996 Mar;43(3):222–4.

Synthesis and activity of Helicobacter pylori urease and catalase at low pH. Bauerfeind P, et al. **Gut** 1997 Jan; 40(1):25–30

Localization of Helicobacter pylori urease and heat shock protein in human gastric biopsies. Dunn BE, et al. **Infect Immun** 1997 Apr;65(4):1181–8

Analysis of F1F0-ATPase from Helicobacter pylori. McGowan CC, et al. **Infect Immun** 1997 Jul;65(7):2640–7

Identification and characterization of a metalloprotease activity from Helicobacter pylori. Windle HJ, et al. **Infect Immun** 1997 Aug;65(8):3132–7

Oxygen scavenging, NADH oxidase and metronidazole resistance in Helicobacter pylori. Smith MA, et al. **J Antimicrob Chemother** 1997 Mar;39(3):347–53

Sequencing, expression, and genetic characterization of the Helicobacter pylori ftsH gene encoding a protein homologous to members of a novel putative ATPase family. Ge Z, et al. **J Bacteriol** 1996 Nov;178(21):6151–7

Helicobacter pylori ABC transporter: effect of allelic exchange mutagenesis on urease activity. Hendricks JK, et al. **J Bacteriol** 1997 Sep;179(18):5892–902

Cloning and heterologous expression of an alpha1,3-fucosyltransferase gene from the gastric pathogen Helicobacter pylori. Ge Z, et al. **J Biol Chem** 1997 Aug 22;272(34):21357–63

Lewis X biosynthesis in Helicobacter pylori. Molecular cloning of an alpha(1,3)-fucosyltransferase gene. Martin SL, et al. **J Biol Chem** 1997 Aug 22;272(34):21349–56

Determination of optimal liquid medium for enzyme expression by Helicobacter pylori. Lin YL, et al. **J Clin Pathol** 1996 Oct;49(10):818–20

Helicobacter pylori does not have a hap mucinase gene that is quasi-identical to the Vibrio cholerae hap gene [letter; comment] Suerbaum S, et al. **Mol Microbiol** 1996 Jun; 20(5):1113–4. Comment on: Mol Microbiol 1994 Jul;13(1):153–60.

Evidence for arylamine N-acetyltransferase activity in the bacterium Helicobacter pylori. Chung JG, et al. **Toxicol Lett** 1997 Mar 14;91(1):63–71

GENETICS

Genetic analysis of the cytotoxin-associated gene and the vacuolating toxin gene in Helicobacter pylori strains isolated from Taiwanese patients. Yang JC, et al. **Am J Gastroenterol** 1997 Aug;92(8):1316–21

A PCR-oligonucleotide ligation assay to determine the prevalence of 23S rRNA gene mutations in clarithromycin-resistant Helicobacter pylori. Stone GG, et al. **Antimicrob Agents Chemother** 1997 Mar;41(3):712–4

Mutations in 23S rRNA are associated with clarithromycin resistance in Helicobacter pylori. Versalovic J, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):477–80

Isolation of a genetic locus associated with metronidazole resistance in Helicobacter pylori. Chang KC, et al. **Biochem Biophys Res Commun** 1997 Jul 30;236(3):785–8

Touchdown PCR: a rapid method to genotype Helicobacter pylori infection [letter] Navaglia F, et al. **Clin Chim Acta** 1997 Jun 27;262(1–2):157–60

PCR-RFLP typing of ureC from Helicobacter pylori isolated in Argentina from gastric biopsies before and after treatment with clarithromycin. Stone GG, et al. **Epidemiol Infect** 1997 Apr;118(2):119–24

Evaluation of rapid molecular methods for detection of clarithromycin resistance in Helicobacter pylori. Szczebara F, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb; 16(2):162–4

Heterogeneity of Helicobacter pylori. Blaser MJ. **Eur J Gastroenterol Hepatol** 1997 Apr;9 Suppl 1:S3–6; discussion S6–7 (17 ref.)

Helicobacter pylori genes hpcopA and hpcopP constitute a cop operon involved in copper export. Ge Z, et al. **FEMS Microbiol Lett** 1996 Dec 1;145(2):181–8

Genetic relationship among isolates of Helicobacter pylori: evidence for the existence of a Helicobacter pylori species-complex. Hazell SL, et al. **FEMS Microbiol Lett** 1997 May 1;150(1):27–32

H. pylori sequence "opens a lot of doors" [news] **Gastroenterology** 1997 Oct;113(4):1059

Clinical and pathological importance of heterogeneity in vacA, the vacuolating cytotoxin gene of Helicobacter pylori. Atherton JC, et al. **Gastroenterology** 1997 Jan; 112(1):92–9

A standardized mouse model of Helicobacter pylori infection: introducing the Sydney strain [published erratum appears in Gastroenterology 1997 Aug;113(2):732] Lee A, et al. **Gastroenterology** 1997 Apr;112(4):1386–97

Heterogeneous Helicobacter pylori isolates from members of a family with a history of peptic ulcer disease. van der Ende A, et al. **Gastroenterology** 1996 Sep;111(3):638–47

Helicobacter pylori Lewis expression is related to the host Lewis phenotype. Wirth HP, et al. **Gastroenterology** 1997 Oct;113(4):1091–8

Helicobacter pylori cagA gene and expression of cytokine messenger RNA in gastric mucosa. Yamaoka Y, et al. **Gastroenterology** 1996 Jun;110(6):1744–52

Helicobacter pylori infection in spouses of patients with duodenal ulcers and comparison of ribosomal RNA gene patterns. Georgopoulos SD, et al. **Gut** 1996 Nov; 39(5):634–8

Introduction of unmarked mutations in the Helicobacter pylori vacA gene with a sucrose sensitivity marker. Copass M, et al. **Infect Immun** 1997 May;65(5):1949–52

Effect of growth phase and acid shock on Helicobacter pylori cagA expression. Karita M, et al. **Infect Immun** 1996 Nov; 64(11):4501–7

Genomic DNA fingerprinting of clinical isolates of Helicobacter pylori using short oligonucleotide probes containing repetitive sequences. Marshall DG, et al. **J Appl Bacteriol** 1996 Nov;81(5):509–17

Identification and characterization of an operon of Helicobacter pylori that is involved in motility and stress adaptation. Beier D, et al. **J Bacteriol** 1997 Aug; 179(15):4676–83

High-level genetic diversity in the vapD chromosomal region of Helicobacter pylori. Cao P, et al. **J Bacteriol** 1997 May;179(9):2852–6

The Helicobacter pylori ureC gene codes for a phosphoglucosamine mutase. De Reuse H, et al. **J Bacteriol** 1997 Jun;179(11):3488–93

The Helicobacter pylori gene encoding phosphatidylserine synthase: sequence, expression, and insertional mutagenesis. Ge Z, et al. **J Bacteriol** 1997 Aug;179(16):4970–6

Cloning and genetic characterization of Helicobacter pylori catalase and construction of a catalase-deficient mutant strain. Odenbreit S, et al. **J Bacteriol** 1996 Dec; 178(23):6960–7

Cloning and characterization of the Helicobacter pylori flbA gene, which codes for a membrane protein involved in coordinated expression of flagellar genes. Schmitz A, et al. **J Bacteriol** 1997 Feb;179(4):987–97

The major sigma factor (RpoD) from Helicobacter pylori and other gram-negative bacteria shows an enhanced rate of divergence. Solnick JV, et al. **J Bacteriol** 1997 Oct;

179(19):6196–200
Lewis X biosynthesis in Helicobacter pylori. Molecular cloning of an alpha(1,3)-fucosyltransferase gene. Martin SL, et al. **J Biol Chem** 1997 Aug 22;272(34):21349–56
Essential role of urease in vitro and in vivo Helicobacter pylori colonization study using a wild-type and isogenic urease mutant strain. Karita M, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S160–3
Evaluation of 16S rRNA gene PCR with primers Hp1 and Hp2 for detection of Helicobacter pylori. Chong SK, et al. **J Clin Microbiol** 1996 Nov;34(11):2728–30
Rapid colorimetric hybridization assay for detecting amplified Helicobacter pylori DNA in gastric biopsy specimens. Lage AP, et al. **J Clin Microbiol** 1996 Mar; 34(3):530–3
Equally high prevalences of infection with cagA-positive Helicobacter pylori in Chinese patients with peptic ulcer disease and those with chronic gastritis-associated dyspepsia. Pan ZJ, et al. **J Clin Microbiol** 1997 Jun; 35(6):1344–7
Factors affecting reliability and reproducibility of amplification-based DNA fingerprinting of representative bacterial pathogens. Tyler KD, et al. **J Clin Microbiol** 1997 Feb;35(2):339–46
Strain differentiation and phylogenic relationships, in terms of base sequence of the ure B gene, of Helicobacter pylori. Akashi H, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:16–23
Pathogenic diversity of Helicobacter pylori. Mégraud F. **J Gastroenterol** 1997 Apr;32(2):278–81 (28 ref.)
Helicobacter pylori isolated from stomach corpus and antrum: comparison of DNA patterns. Cellini L, et al. **J Infect** 1996 May;32(3):219–21
Helicobacter pylori cagA+ strains and dissociation of gastric epithelial cell proliferation from apoptosis [see comments] Peek RM Jr, et al. **J Natl Cancer Inst** 1997 Jun 18; 89(12):863–8. Comment in: J Natl Cancer Inst 1997 Jun 18;89(12):836–7.
Cytotoxin genes of Helicobacter pylori in chronic gastritis, gastroduodenal ulcer and gastric cancer: an age and gender matched case-control study. Matsukura N, et al. **Jpn J Cancer Res** 1997 Jun;88(6):532–6
Genetic diversity of Helicobacter pylori. Logan RP, et al. **Lancet** 1996 Nov 30;348(9040):1462–3
Direct repeat sequences in the cagA gene of Helicobacter pylori: a ghost of a chance encounter? [letter] Evans DL Jr, et al. **Mol Microbiol** 1997 Jan;23(2):409–10
Variability of gene order in different Helicobacter pylori strains contributes to genome diversity. Jiang Q, et al. **Mol Microbiol** 1996 May;20(4):833–42
Optimized BlaM-transposon shuttle mutagenesis of Helicobacter pylori allows the identification of novel genetic loci involved in bacterial virulence. Odenbreit S, et al. **Mol Microbiol** 1996 Apr;20(2):361–73
Helicobacter pylori picB, a homologue of the Bordetella pertussis toxin secretion protein, is required for induction of IL-8 in gastric epithelial cells. Tummuru MK, et al. **Mol Microbiol** 1995 Dec;18(5):867–76
A bug with excess gastric avidity [news; comment] Doolittle RF. **Nature** 1997 Aug 7;388(6642):515–6. Comment on: Nature 1997 Aug 7;388(6642):539–47.
The complete genome sequence of the gastric pathogen Helicobacter pylori [see comments] Tomb JF, et al. **Nature** 1997 Aug 7;388(6642):539–47. Comment in: Nature 1997 Aug 7;388(6642):515–6.
cag, a pathogenicity island of Helicobacter pylori, encodes type I-specific and disease-associated virulence factors. Censini S, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10; 93(25):14648–53
Genotyping of Helicobacter pylori isolates by sequencing of PCR products and comparison with the RAPD technique. Kansau I, et al. **Res Microbiol** 1996 Oct; 147(8):661–9
Inoculation of VacA- and CagA- Helicobacter pylori delays gastric ulcer healing in the rat. Li H, et al. **Scand J Gastroenterol** 1997 May;32(5):439–44
Flagellin gene diversity among Helicobacter pylori strains and IL-8 secretion from gastric epithelial cells. Ohta-Tada U, et al. **Scand J Gastroenterol** 1997 May;32(5):455–9
High prevalence of the CagA-positive Helicobacter pylori strains in Japanese asymptomatic patients and gastric cancer patients. Shimoyama T, et al. **Scand J Gastroenterol** 1997 May;32(5):465–8
The cag pathogenicity island: mechanistic insights [letter; comment] Christie PJ. **Trends Microbiol** 1997 Jul;5(7):264–5 . Comment on: Trends Microbiol 1997 May;5(5):205–8.
Did the inheritance of a pathogenicity island modify the virulence of Helicobacter pylori? [see comments] Covacci A, et al. **Trends Microbiol** 1997 May;5(5):205–8 (25 ref.). Comment in: Trends Microbiol 1997 Jul;5(7):264–5.
Molecular biology in diagnosis and epidemiology of Helicobacter pylori: PCR for the detection and AP-PCR for characterization of patient isolates. Schwarz E, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):368–78
[Micronucleus effect induced by Helicobacter pylori on human gastric mucous epithelial membrane] Ning T, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):139–40 (Eng. Abstr.) **(Chi)**

GROWTH & DEVELOPMENT

Estimates of Helicobacter pylori densities in the gastric mucus layer by PCR, histologic examination, and CLOtest. Nowak JA, et al. **Am J Clin Pathol** 1997 Sep;108(3):284–8
Effects of Helicobacter pylori colonisation on the adherent gastric mucus barrier. Oliver L, et al. **Biochem Soc Trans** 1997 May;25(2):372S
Helicobacter pylori colonization of Barrett's esophagus and its progression to cancer. Wright TA, et al. **Dis Esophagus** 1997 Jul;10(3):196–200
Capsaicin as an inhibitor of the growth of the gastric pathogen Helicobacter pylori. Jones NL, et al. **FEMS Microbiol Lett** 1997 Jan 15;146(2):223–7
Influence of medium composition on the growth and antigen expression of Helicobacter pylori. Walsh EJ, et al. **J Appl Microbiol** 1997 Jul;83(1):67–75
Vector potential of houseflies (Musca domestica) for Helicobacter pylori. Grübel P, et al. **J Clin Microbiol** 1997 Jun;35(6):1300–3
Growth of Helicobacter pylori in candle jars. Fan XG, et al. **J Med Microbiol** 1997 Apr;46(4):354–5
Is the coccoid form of Helicobacter pylori viable? Hua J, et al. **Microbios** 1996;87(351):103–12
Refinement of, and new applications for, Helicobacter pylori colonization in pig gastric biopsy specimens cultured in vitro. Meyer-Rosberg K, et al. **Scand J Gastroenterol** 1996 Jun;31(6):541–5
Porcine gastric mucosa associated lymphoid tissue (MALT): stimulation by colonization with the gastric bacterial pathogen, Helicobacter pylori. Green WB, et al. **Vet Immunol Immunopathol** 1997 May;56(1-2):119–31

IMMUNOLOGY

High risk of Helicobacter pylori infection associated with cow's milk antibodies in young diabetics. Pocecco M, et al. **Acta Paediatr** 1997 Jul;86(7):700–3
An evaluation of near-patient testing for Helicobacter pylori in general practice. Jones R, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):101–5
Detection of serum antibodies to Helicobacter pylori by an immunochromatographic method. Anderson JC, et al. **Am J Gastroenterol** 1997 Jul;92(7):1135–9
Prevalence of serum antibodies to Helicobacter pylori and to CagA protein in liver transplant recipients. Rudi J, et al. **Am J Gastroenterol** 1997 Sep;92(9):1492–5
Characterisation of serum and mucosal antibodies against Helicobacter pylori. McBride PD, et al. **Biochem Soc Trans** 1997 May;25(2):334S
Vaccine development against Helicobacter pylori infections. Haas R, et al. **Biologicals** 1997 Jun;25(2):175–7 (13 ref.)
Evaluation of salivary antibodies to detect infection with Helicobacter pylori. Loeb MB, et al. **Can J Gastroenterol** 1997 Jul-Aug;11(5):437–40
High prevalence of serum immunoglobulin G antibody to Helicobacter pylori and raised serum gastrin and pepsinogen levels in enlarged fold gastritis. Yasunaga Y, et al. **Can J Gastroenterol** 1997 Jul-Aug;11(5):433–6
Helicobacter pylori antibodies in relation to precancerous gastric lesions in a high-risk Chinese population. Zhang L, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Aug; 5(8):627–30
Evaluation of a rapid, new method for detecting serum IgG antibodies to Helicobacter pylori. Sharma TK, et al. **Clin Chem** 1997 May;43(5):832–6
Detection of serum antibodies to CagA and VacA and of serum neutralizing activity for vacuolating cytotoxin in patients with Helicobacter pylori-induced gastritis. Donati M, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):478–82
T-cell, antibody, and cytokine responses to homologs of the 60-kilodalton heat shock protein in Helicobacter pylori infection. Sharma SA, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):440–6
Stimulation of IL-8 production in human gastric epithelial cells by Helicobacter pylori, IL-1beta and TNF-alpha requires tyrosine kinase activity, but not protein kinase C. Beales IL, et al. **Cytokine** 1997 Jul;9(7):514–20
Serum antibodies against Helicobacter pylori proteins VacA and CagA are associated with increased risk for gastric adenocarcinoma. Rudi J, et al. **Dig Dis Sci** 1997 Aug; 42(8):1652–9
Immunopathology of Helicobacter pylori gastritis. Kirchner T, et al. **Digestion** 1997;58 Suppl 1:14–6 (5 ref.)
Prospects for the development of a vaccine against Helicobacter pylori. Telford JL, et al. **Drugs** 1996 Dec; 52(6):799–804 (36 ref.)
Helicobacter antibodies in 1973 and 1994 in the adult population of Vammala, Finland. Kosunen TU, et al. **Epidemiol Infect** 1997 Aug;119(1):29–34
The effect of measurement error on the determination of Helicobacter pylori prevalence. Cockburn M, et al. **Epidemiology** 1997 Mar;8(2):205–9
Evaluation of a serological test for diagnosis of Helicobacter pylori infection in children. Raymond J, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):415–7
Antibodies to CagA protein are associated with gastric atrophy in Helicobacter pylori infection. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):645–9
Seroprevalence of Helicobacter pylori in a birth cohort of 21-year-old New Zealanders. Fawcett JP, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):365–9
Role of gastric mucosal cytokines in the immunopathogenesis of Helicobacter pylori infection: new hypotheses but still few certitudes. Glupczynski Y, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):447–50
The Helicobacter pylori seroprevalence in blood donors related to Lewis (a,b) histo-blood group phenotype. Klaamas K, et al. **Eur J Gastroenterol Hepatol** 1997 Apr; 9(4):367–70
Near patient testing for Helicobacter pylori: a detailed evaluation of the Cortecs Helisal Rapid Blood test. Stone MA, et al. **Eur J Gastroenterol Hepatol** 1997 Mar; 9(3):257–60
Different cytokine profile and antigen-specificity repertoire in Helicobacter pylori-specific T cell clones from the antrum of chronic gastritis patients with or without peptic ulcer. D'Elios MM, et al. **Eur J Immunol** 1997 Jul; 27(7):1751–5
The significance of selected epidemiologico-clinical factors in the prevalence of the Helicobacter pylori infection in young males. Kopański Z, et al. **Eur J Med Res** 1997 Aug 28;2(8):358–60
Gastritis in urease-immunized mice after Helicobacter felis challenge may be due to residual bacteria. Ermak TH, et al. **Gastroenterology** 1997 Oct;113(4):1118–28
Local immunoglobulin G antibodies in the stomach may contribute to immunity against Helicobacter infection in mice. Ferrero RL, et al. **Gastroenterology** 1997 Jul; 113(1):185–94
Antigenic mimicry between Helicobacter pylori and gastric mucosa in the pathogenesis of body atrophic gastritis. Negrini R, et al. **Gastroenterology** 1996 Sep;111(3):655–65
Effect of Helicobacter pylori eradication on gastritis in relation to cagA: a prospective 1-year follow-up study. van der Hulst RW, et al. **Gastroenterology** 1997 Jul; 113(1):25–30
Is saliva serology useful for the diagnosis of Helicobacter pylori? Christie JM, et al. **Gut** 1996 Jul;39(1):27–30
In vitro evaluation of the role of antibodies against Helicobacter pylori in inhibiting adherence of the organism to gastric cells. Clyne M, et al. **Gut** 1997 Jun;40(6):731–8
Risk for gastric cancer in people with CagA positive or CagA negative Helicobacter pylori infection [see comments] Parsonnet J, et al. **Gut** 1997 Mar;40(3):297–301. Comment in: ACP J Club 1997 Sep-Oct;127(2):50.
The proliferation of human T lymphocytes stimulated by Helicobacter pylori antigens. Chmiela M, et al. **Immunobiology** 1996 Jul;195(2):199–208
Identification, characterization, and immunogenicity of the lactoferrin-binding protein from Helicobacter pylori. Dhaenens L, et al. **Infect Immun** 1997 Feb;65(2):514–8
Helicobacter pylori lipopolysaccharide can activate 70Z/3 cells via CD14. Kirkland T, et al. **Infect Immun** 1997 Feb; 65(2):604–8
Expression of the human cell surface glycoconjugates Lewis x and Lewis y by Helicobacter pylori isolates is related to cagA status. Wirth HP, et al. **Infect Immun** 1996 Nov; 64(11):4598–605
Low antigenicity of the polysaccharide region of Helicobacter pylori lipopolysaccharides derived from tumors of patients with gastric cancer. Yokota S, et al. **Infect Immun** 1997 Sep;65(9):3509–12
Seroprevalences of hepatitis B and C viruses and Helicobacter pylori infection in a small, isolated population at high risk of gastric and liver cancer. Chen SY, et al. **Int J Cancer** 1997 May 29;71(5):776–9
Country-specific constancy by age in cagA+ proportion of Helicobacter pylori infections. Pérez-Pérez GI, et al. **Int J Cancer** 1997 Jul 29;72(3):453–6
Enhanced T-helper 2 lymphocyte responses: immune mechanism of Helicobacter pylori infection. Fan XG, et al. **Ir J Med Sci** 1996 Jan-Mar;165(1):37–9 (30 ref.)
The value of anti-Helicobacter pylori IgG antibodies in establishing eradication of infection in children. Fradkin A, et al. **Isr J Med Sci** 1997 Feb;33(2):87–92
Helicobacter pylori infection in families of Helicobacter pylori-positive children. Bonamico M, et al. **Ital J Gastroenterol** 1996 Dec;28(9):512–7
Early fall of anti Helicobacter pylori IgG in eradicated patients with non-ulcer dyspepsia [letter; comment] Di Mario F, et al. **Ital J Gastroenterol** 1995 Dec;27(9):510. Comment on: Ital J Gastroenterol 1994 Apr;26(3):107–10.
Carbohydrate binding specificity of the neutrophil-activating protein of Helicobacter pylori. Teneberg S, et al. **J Biol Chem** 1997 Jul 25;272(30):19067–71
Tissue IgA antibody against Helicobacter pylori in patients with gastroduodenal diseases: comparison with bacterial culture, serum IgG antibody, and [13C]Urea breath test. Matsukura N, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S146–50
Lymphocyte proliferative response to Helicobacter pylori CagA protein in patients with duodenal ulcer or gastritis [letter] Tricerri A, et al. **J Clin Gastroenterol** 1996 Jul; 23(1):81–2
Serum anti-Helicobacter pylori antibodies and gastritis. Yamamoto I, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S164–8
Quantitative detection of secretory immunoglobulin A to Helicobacter pylori in gastric juice: antibody capture enzyme-linked immunosorbent assay. Hayashi S, et al. **J Clin Lab Anal** 1996;10(2):74–7
Seroepidemiology of Helicobacter pylori infection in a cohort of children monitored from 6 months to 11 years of age. Granström M, et al. **J Clin Microbiol** 1997 Feb;35(2):468–70
Evaluation of Pyloriset Dry, a new rapid agglutination test for Helicobacter pylori antibody detection. Loźniewski A, et al. **J Clin Microbiol** 1996 Jul;34(7):1773–5
Evaluation of eight enzyme immunoassays for detection of immunoglobulin G against Helicobacter pylori. Meijer BC,

et al. **J Clin Microbiol** 1997 Jan;35(1):292–4

Immunoblot assay for serodiagnosis of Helicobacter pylori infections. Nilsson I, et al. **J Clin Microbiol** 1997 Feb; 35(2):427–32

Evaluation of enzyme immunoassay for detection of salivary antibody to Helicobacter pylori. Simor AE, et al. **J Clin Microbiol** 1996 Mar;34(3):550–3

Serum CagA antibodies in asymptomatic subjects and patients with peptic ulcer: lack of correlation of IgG antibody in patients with peptic ulcer or asymptomatic Helicobacter pylori gastritis. Graham DY, et al. **J Clin Pathol** 1996 Oct; 49(10):829–32

Serological tests for monitoring Helicobacter pylori eradication treatment. Hirschl AM, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:33–6

Vaccination against Helicobacter pylori. Lee A. **J Gastroenterol** 1996 Nov;31 Suppl 9:69–74 (50 ref.)

T helper 1 effector cells specific for Helicobacter pylori in the gastric antrum of patients with peptic ulcer disease. D'Elios MM, et al. **J Immunol** 1997 Jan 15;158(2):962–7

Seroprevalence of CagA–positive strains among Helicobacter pylori–infected, healthy young adults. Parsonnet J, et al. **J Infect Dis** 1997 May;175(5):1240–2

Relationship of immune response to heat–shock protein A and characteristics of Helicobacter pylori–infected patients. Pérez–Pérez GI, et al. **J Infect Dis** 1996 Nov; 174(5):1046–50

A population–based serologic survey of Helicobacter pylori infection in children and adolescents in the United States. Staat MA, et al. **J Infect Dis** 1996 Nov;174(5):1120–3

Prevalence of Helicobacter pylori antibodies in children in Bloemfontein, South Africa. Pelser HH, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):135–9

Serological indicators of Helicobacter pylori infection in adult dyspeptic patients and healthy blood donors. Rechciński T, et al. **Microbiol Immunol** 1997;41(5):387–93

Nickel binding and immunological properties of the C–terminal domain of the Helicobacter pylori GroES homologue (HspA). Kansau I, et al. **Mol Microbiol** 1996 Dec;22(5):1013–23

Prevalence of Helicobacter pylori antibodies in CAPD patients [letter] Antoniou S, et al. **Nephron** 1997;75(3):358–9

Loss of Helicobacter pylori hemagglutination with serial laboratory passage and correlation of hemagglutination with gastric epithelial cell adherence. Hopkins RJ, et al. **Pathobiology** 1996;64(5):247–54

Prevalence of Helicobacter pylori antibodies in normal children. Ader–Shotet F, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):172–4

Immune responses to mucosal infection: the Helicobacter pylori paradigm. Ferrero RL. **Res Immunol** 1997 Feb; 148(2):91–107 (117 ref.)

Seroprevalence of Helicobacter pylori infection in medical staff in Shanghai. Liu WZ, et al. **Scand J Gastroenterol** 1996 Aug;31(8):749–52

Low seroprevalence of Helicobacter pylori antibodies in historical sera of patients with Crohn's disease. Wagtmans MJ, et al. **Scand J Gastroenterol** 1997 Jul;32(7):712–8

Prevention of Helicobacter pylori infection. Lee A. **Scand J Gastroenterol Suppl** 1996;215:11–5 (23 ref.)

Mucosal inflammation and disease in Helicobacter pylori infection. Veenendaal RA, et al. **Scand J Gastroenterol Suppl** 1996;218:86–91 (69 ref.)

Age at acquisition of Helicobacter pylori infection: comparison of a high and a low prevalence country. Lindkvist P, et al. **Scand J Infect Dis** 1996;28(2):181–4

Immunologic aspects of Helicobacter pylori infection and malignant transformation of B cells. Crabtree JE, et al. **Semin Gastrointest Dis** 1996 Jan;7(1):30–40 (111 ref.)

Immunopathology of Helicobacter pylori infection and disease. Czinn SJ, et al. **Springer Semin Immunopathol** 1997; 18(4):495–513 (123 ref.)

Molecular mimicry between Helicobacter pylori and the host. Appelmelk BJ, et al. **Trends Microbiol** 1997 Feb;5(2):70–3 (31 ref.)

Novel intranasal immunization techniques for antibody induction and protection of mice against gastric Helicobacter felis infection. Weltzin R, et al. **Vaccine** 1997 Mar;15(4):370–6

Porcine gastric mucosa associated lymphoid tissue (MALT): stimulation by colonization with the gastric bacterial pathogen, Helicobacter pylori. Green WB, et al. **Vet Immunol Immunopathol** 1997 May;56(1–2):119–31

Phagocytosis of Helicobacter pylori bacteria differing in the heparan sulfate binding by human polymorphonuclear leukocytes. Chmiela M, et al. **Zentralbl Bakteriol** 1996 Mar; 283(3):346–50

[A serological study on the infection of Helicobacter pylori among children] Li M, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Feb; 17(1):33–5 (Eng. Abstr.) **(Chi)**

[Application of serology and 14C–urea breath test to monitoring of the effect of anti–Helicobacter pylori chemotheraphy] Hu P, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):819–22 (Eng. Abstr.) **(Chi)**

[Serodiagnosis of Helicobacter pylori infections by detection of immunoglobulin G antibodies with an immunoblot technique] Pan Z, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):9–11 (Eng. Abstr.) **(Chi)**

[Helicobacter pylori: antibodies in sera of pigs and calves] Seidel KE, et al. **Berl Munch Tierarztl Wochenschr** 1996 Nov–Dec;109(11–12):434–9 (Eng. Abstr.) **(Ger)**

[The prevalence of Helicobacter pylori positive serology in asymptomatic Japanese children] Kawakami S, et al. **Kansenshogaku Zasshi** 1996 Nov;70(11):1193–4 **(Jpn)**

[Prevalence of serum anti–Helicobacter pylori IgG antibody in persons with severe motor and intellectual disabilities—comparison between institutionalized persons and persons living at home] Takano N, et al. **No To Hattatsu** 1997 Jul;29(4):273–7 (Eng. Abstr.) **(Jpn)**

[Incidence of Helicobacter infection in adolescents with and without gastroduodenal diseases] Parkhomenko LK, et al. **Klin Med (Mosk)** 1996;74(4):50–1 **(Rus)**

[Will a specific preventive or curative vaccine for gastroduodenal ulcer be achieved?] Solano Aliende JA. **Rev Esp Enferm Dig** 1997 Jan;89(1):46–7 **(Spa)**

[Immunologic response in Helicobacter pylori gastric infection] Terrés AM, et al. **Rev Esp Enferm Dig** 1996 Sep; 88(9):625–9 (43 ref.) **(Spa)**

ISOLATION & PURIFICATION

A triple stain for the detection of Helicobacter pylori in gastric brushing cytology. Ghoussoub RA, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1178–82

Helicobacter pylori duodenal colonization in children. Bonamico M, et al. **Acta Paediatr** 1997 Apr;86(4):356–60

Helicobacter pylori infection, a paradigm for chronic mucosal inflammation: pathogenesis and implications for eradication and prevention. Cover TL, et al. **Adv Intern Med** 1996;41:85–117 (214 ref.)

Endoscopic methods for the diagnosis of Helicobacter pylori. Cohen H, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:3–9 (28 ref.)

Helicobacter pylori serology and the management of young dyspeptics: a UK survey of gastroenterologists and general practitioners with an interest in gastroenterology. Lim AG, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):299–303

CagA and the outcome of Helicobacter pylori infection [editorial; comment] Blaser MJ, et al. **Am J Clin Pathol** 1996 Nov;106(5):565–7. Comment on: Am J Clin Pathol 1996 Nov;106(5):670–5.

Gastric non–Hodgkin lymphomas of mucosa–associated lymphoid tissue are not associated with more aggressive Helicobacter pylori strains as identified by CagA [see comments] de Jong D, et al. **Am J Clin Pathol** 1996 Nov; 106(5):670–5. Comment in: Am J Clin Pathol 1996 Nov;106(5):565–7.

Detection of Helicobacter pylori in paraffin–embedded gastric biopsy specimens by in situ hybridization. Karttunen TJ, et al. **Am J Clin Pathol** 1996 Sep;106(3):305–11

Diagnostic tests for H. pylori: a prospective evaluation of their accuracy, without selecting a single test as the gold standard [letter; comment] Cutler AF. **Am J Gastroenterol** 1997 Mar;92(3):538–9. Comment on: Am J Gastroenterol 1996 Oct;91(10):2125–9.

Diagnostic tests for Helicobacter pylori: a prospective evaluation of their accuracy, without selecting a single test as the gold standard [see comments] Thijs JC, et al. **Am J Gastroenterol** 1996 Oct;91(10):2125–9. Comment in: Am J Gastroenterol 1997 Mar;92(3):538–9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1071.

Prospective, multivariate evaluation of CLOtest performance. Weston AP, et al. **Am J Gastroenterol** 1997 Aug;92(8):1310–5

Evaluation of handling methods in the histological diagnosis of Helicobacter pylori: the effect of filter paper. Yokoi T, et al. **Am J Gastroenterol** 1996 Nov;91(11):2344–6

Blood–group phenotypes, sulfomucins, and Helicobacter pylori in Barrett's esophagus. Torrado J, et al. **Am J Surg Pathol** 1997 Sep;21(9):1023–9

Management strategies for Helicobacter pylori–seropositive patients with dyspepsia: clinical and economic consequences [see comments] Ofman JJ, et al. **Ann Intern Med** 1997 Feb 15;126(4):280–91 (69 ref.). Comment in: Ann Intern Med 1997 Feb 15;126(4):315–6. Comment in: Ann Intern Med 1997 Aug 1;127(3):244.

Helicobacter pylori: when to test, when to treat [editorial; comment] Rabeneck L, et al. **Ann Intern Med** 1997 Feb 15;126(4):315–6. Comment on: Ann Intern Med 1997 Feb 15;126(4):280–91.

Specific detection of Helicobacter pylori and non–Helicobacter pylori flora in small– and large–cell primary gastric B–cell non–Hodgkin's lymphoma. Gisbertz IA, et al. **Ann Oncol** 1997;8 Suppl 2:33–6

Biology and treatment of MALT lymphoma: the state–of–the–art in 1996. A workshop at the 6th International Conference on Malignant Lymphoma. Mucosa–Associated Lymphoid Tissue. Zucca E, et al. **Ann Oncol** 1996 Oct;7(8):787–92 (37 ref.)

Use of PCR and culture to detect Helicobacter pylori in naturally infected cats following triple antimicrobial therapy. Perkins SE, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1486–90

Feasibility of Helicobacter pylori identification by a slide agglutination test. Maeland JA, et al. **APMIS** 1997 Feb; 105(2):157–60

Seroprevalence of Helicobacter pylori in patients with surgical peptic ulcer. Lee WJ, et al. **Arch Surg** 1997 Apr; 132(4):430–3; discussion 434

No evidence for the presence of Helicobacter pylori in atherosclerotic plaques in abdominal aortic aneurysm specimens [letter] Blasi F, et al. **Atherosclerosis** 1996 Oct 25;126(2):339–40

Detection of Helicobacter pylori in biopsy of patients with gastric carcinoma. Shibata T, et al. **Biomed Pharmacother** 1997;51(1):22–8 (40 ref.)

Prevalence of Helicobacter pylori at antral mucosa of patients with dyspepsia at University District Hospital. Mosquera RA, et al. **Bol Asoc Med P R** 1996 Oct–Dec;88(10–12):85–8

Disappearance of Helicobacter without antibiotics in 12 patients with gastritis. Freeman HJ. **Can J Gastroenterol** 1997 Mar;11(2):167–72 (32 ref.)

Helicobacter pylori highlights from the first Canadian Digestive Disease Week. Matisko A, et al. **Can J Gastroenterol** 1997 Jan–Feb;11(1):71–6

Helicobacter pylori and primary gastric lymphoma. A histopathologic and immunohistochemical analysis of 237 patients. Nakamura S, et al. **Cancer** 1997 Jan 1;79(1):3–11

Clarithromycin in the combination therapy for the eradication of Helicobacter pylori in peptic ulcer disease. Lo WC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar;59(3):171–6

Diagnosis of Helicobacter pylori in gastric brush and biopsy specimens stained by Romanowsky and immunocytochemical methods: comparison with the CLOtest. Faraker CA. **Cytopathology** 1996 Apr;7(2):108–19

Non–ulcer dyspepsia and Helicobacter pylori in type 2 diabetic patients: association with autonomic neuropathy. Persico M, et al. **Diabetes Res Clin Pract** 1996 Mar; 31(1–3):87–92

Modification of Christensen urease test as an inexpensive tool for detection of Helicobacter pylori. Domínguez–Bello MG, et al. **Diagn Microbiol Infect Dis** 1997 Jul;28(3):149–52

A new urea broth–based test to detect Helicobacter pylori presence in upper gastrointestinal biopsies. Weiss K, et al. **Diagn Microbiol Infect Dis** 1996 Feb;24(2):61–4

The presence of Helicobacter pylori in nonoperated duodenal ulcer patients compared to patients late after highly selective vagotomy. Csendes A, et al. **Dig Dis Sci** 1996 Dec;41(12):2366–8

A newly developed PCR assay of H. pylori in gastric biopsy, saliva, and feces. Evidence of high prevalence of H. pylori in saliva supports oral transmission. Li C, et al. **Dig Dis Sci** 1996 Nov;41(11):2142–9

High seropositivity of anti–CagA antibody in Helicobacter pylori–infected patients irrelevant to peptic ulcers and normal mucosa in Japan. Maeda S, et al. **Dig Dis Sci** 1997 Sep;42(9):1841–7

Impact of Helicobacter pylori colonization on immunoreactive epidermal growth factor and transforming growth factor–alpha in gastric juice. Its potential pathogenetic implications. Marcinkiewicz M, et al. **Dig Dis Sci** 1996 Nov;41(11):2150–5

Antral mucosal Helicobacter pylori infection density as a risk factor of duodenal ulcer. Talamini G, et al. **Digestion** 1997;58(3):211–7

Rapid increase in the prevalence of metronidazole–resistant Helicobacter pylori in the Netherlands. van der Wouden EJ, et al. **Emerg Infect Dis** 1997 Jul–Sep;3(3):385–9

Non–neoplastic changes in gastric antrum: are they different in distally located intestinal and diffuse–type gastric adenocarcinoma? Knawy BA, et al. **Eur J Cancer Prev** 1997 Apr;6(2):167–70

Influence of oropharyngeal flora and specimen pretreatment on the recovery of Helicobacter pylori. Jonkers D, et al. **Eur J Clin Microbiol Infect Dis** 1996 May;15(5):378–82

Quantitative polymerase chain reaction for the detection of Helicobacter pylori in gastric biopsy specimens. Monteiro L, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb; 16(2):143–9

Culture of Helicobacter pylori from gastric biopsies transported in biopsy urease test tubes. Rautelin H, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):380–3

Effect of specimen collection techniques, transport media, and incubation of cultures on the detection rate of Helicobacter pylori. van der Hulst RW, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):211–5

Comparison of three urease tests for detection of Helicobacter pylori in gastric biopsy specimens. Boyanova L, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):911–4

Update on Helicobacter pylori research. Malignancies. Gasbarrini G, et al. **Eur J Gastroenterol Hepatol** 1997 Jun; 9(6):621–3

Ongoing gastric acid inhibition is a confounding factor in Helicobacter pylori diagnosis. Jonkers D, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):49–53

Update on Helicobacter pylori research. Diagnosis. Klein PD, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):617–8

Helicobacter pylori in the mouth—negative isolation from dental plaque and saliva [see comments] Luman W, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):11–4. Comment in: Eur J Gastroenterol Hepatol 1996 Jan;8(1):1–2.

Modified rapid urease test for detection of Helicobacter pylori infection. Malfertheiner P, et al. **Eur J Gastroenterol Hepatol** 1996 Jan;8(1):53–6

Update on Helicobacter pylori research. Dyspepsia. Malfertheiner P, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):624–5

Epidemiology and association with extra–gastrointestinal diseases. Mégraud F, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):615

Do patients need to fast for a 13C–urea breath test? Moayyedi P, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):275–7

Extra–gastrointestinal diseases and Helicobacter pylori. Ponzetto A. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):616

HELICOBACTER PYLORI

Helicobacter pylori infection and upper gastrointestinal pathology in a British immigrant Indian community [letter; comment] Tovey FI. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):647–8. Comment on: Eur J Gastroenterol Hepatol 1997 Feb;9(2):191–4.

Practical diagnosis of Helicobacter pylori infection. van Zwet AA, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):501–7 (83 ref.)

Relationship between the mucosal production of reactive oxygen radicals and density of Helicobacter pylori in patients with duodenal ulcer. Zhang Q, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):261–5

Gastrointestinal colonisation of BALB/cA mice by Helicobacter pylori monitored by heparin magnetic separation. Aleljung P, et al. **FEMS Immunol Med Microbiol** 1996 Apr;13(4):303–9

Diagnostic tests for Helicobacter pylori infection. Cutler AF. **Gastroenterologist** 1997 Sep;5(3):202–12 (68 ref.)

Aberrant expression of gland-type gastric mucin in the surface epithelium of Helicobacter pylori–infected patients. Byrd JC, et al. **Gastroenterology** 1997 Aug;113(2):455–64

Dyspepsia and Helicobacter pylori: to endoscope or not to endoscope? The Omega-Study Group [letter; comment] Halter F. **Gastroenterology** 1996 Oct;111(4):1159. Comment on: Gastroenterology 1996 Jan;110(1):72–83.

Heterogeneous Helicobacter pylori isolates from members of a family with a history of peptic ulcer disease. van der Ende A, et al. **Gastroenterology** 1996 Sep;111(3):638–47

Does staining gastric mucosa with methylene blue spraying method affect diagnosis of Helicobacter pylori? [letter; comment] Demirturk L, et al. **Gastrointest Endosc** 1996 Jan;43(1):81. Comment on: Gastrointest Endosc 1994 May-Jun;40(3):397–8.

Prospective comparison of H&E, Giemsa, and Genta stains for the diagnosis of Helicobacter pylori. Laine L, et al. **Gastrointest Endosc** 1997 Jun;45(6):463–7

The influence of warming on rapid urease test results: a prospective evaluation. Laine L, et al. **Gastrointest Endosc** 1996 Oct;44(4):429–32

The influence of size or number of biopsies on rapid urease test results: a prospective evaluation. Laine L, et al. **Gastrointest Endosc** 1996 Jan;43(1):49–53

Topical anesthesia and urease tests [letter] Rey E, et al. **Gastrointest Endosc** 1996 Dec;44(6):760

Quantitative noninvasive testing for Helicobacter pylori does not predict gastroduodenal ulcer disease. Sharma TK, et al. **Gastrointest Endosc** 1996 Dec;44(6):679–82

Bacterial density of Helicobacter pylori predicts the success of triple therapy in bleeding duodenal ulcer. Sheu BS, et al. **Gastrointest Endosc** 1996 Dec;44(6):683–8

Prospective evaluation of a new urea-membrane test for the detection of Helicobacter pylori in gastric antral tissue. Young EL, et al. **Gastrointest Endosc** 1996 Nov; 44(5):527–31

Evaluation of a new reagent strip rapid urease test for detection of Helicobacter pylori infection. Yousfi MM, et al. **Gastrointest Endosc** 1996 Nov;44(5):519–22

Detection of Helicobacter pylori by rapid urease tests: is biopsy size a critical variable? [see comments] Yousfi MM, et al. **Gastrointest Endosc** 1996 Mar;43(3):222–4. Comment in: Gastrointest Endosc 1996 Mar;43(3):260–1.

Non-nonsteroidal anti-inflammatory drug, nonmalignant gastric ulcers. Bjorkman DJ, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):527–44 (102 ref.)

Lack of association between helicobacter pylori and gastric atrophy or intestinal metaplasia in elderly patients. Liston R, et al. **Gerontology** 1996;42(2):97–103

Gastric mucosal secretion of interleukin-10: relations to histopathology, Helicobacter pylori status, and tumour necrosis factor-alpha secretion. Bodger K, et al. **Gut** 1997 Jun;40(6):739–44

Helicobacter pylori infection in children: relation with current household living conditions. McCallion WA, et al. **Gut** 1996 Jul;39(1):18–21

Effects of aspirin and Helicobacter pylori on the gastroduodenal mucosal permeability to sucrose. Rabassa AA, et al. **Gut** 1996 Aug;39(2):159–63

B-cell clonality and infection with Helicobacter pylori: implications for development of gastric lymphoma. Sorrentino D, et al. **Gut** 1996 Jun;38(6):837–40

Lack of serologic evidence for Helicobacter pylori infection in head and neck cancer. Grandis JR, et al. **Head Neck** 1997 May;19(3):216–8

Helicobacter pylori after surgery for duodenal ulcer. Künzle JE, et al. **Hepatogastroenterology** 1997 Mar-Apr; 44(14):599–603

Stimulated gastrinemia, parietal cell mass and stimulated acid secretion in autonomous chronic gastritis: Helicobacter pylori influence. Testino G, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):650–4

Duodenal and gastric cell regenerating epithelia on margins of human duodenal ulcer and presence of H. pylori—an electron microscopic study. Ogata T. **Histol Histopathol** 1997 Jan;12(1):57–68

Staining for Helicobacter pylori: an E-mail survey [letter; comment] Agbamu DA. **Hum Pathol** 1997 May;28(5):635–6 . Comment on: Hum Pathol 1996 Jan;27(1);1–4.

Molecular diagnosis of Helicobacter pylori. Westblom TU. **Immunol Invest** 1997 Jan-Feb;26(1-2):163–74 (77 ref.)

Modified urea broth versus Christensen's urea broth for detecting Helicobacter pylori [letter] Arain GM, et al. **Indian J Gastroenterol** 1996 Jul;15(3):113–4

Relationship of serum gastrin and Helicobacter pylori in the gastric antral and body mucosa [corrected and republished with original paging, article originally printed in Indian J Gastroenterol 1995 Jul; 14(3):99–101] Gill HH, et al. **Indian J Gastroenterol** 1995 Oct;14(4):99–101

Isolation and characterization of Helicobacter pylori strains from peptic ulcer patients in Dhaka, Bangladesh. Haque M, et al. **Indian J Gastroenterol** 1995 Oct;14(4):128–30

Long-term anti-inflammatory drug use and Helicobacter pylori infection: a clinical, endoscopic and histological study. Kulkarni SG, et al. **Indian J Gastroenterol** 1996 Oct; 15(4):118–21

Is Helicobacter pylori a gastric carcinogen? [editorial; comment] [see comments] Mohandas KM. **Indian J Gastroenterol** 1997 Jan;16(1):3–5. Comment on: Indian J Gastroenterol 1997 Jan;16(1):16–7. Comment in: Indian J Gastroenterol 1997 Apr;16(2):78.

Helicobacter pylori and intestinal metaplasia of gastric mucosa [see comments] Satarkar RP, et al. **Indian J Gastroenterol** 1997 Jan;16(1):16–7. Comment in: Indian J Gastroenterol 1997 Jan;16(1):3. Comment in: Indian J Gastroenterol 1997 Apr;16(2):78.

Western blot analysis of serological response in Helicobacter pylori in acid peptic diseases. Chatha L, et al. **Indian J Med Res** 1997 Apr;105:170–5

Histamine and fibrinolytic activity in Helicobacter pylori positive and negative dyspeptic patients. Man WK, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S103–4

Guidelines for the management of Helicobacter pylori-related upper gastrointestinal diseases. Irish Helicobacter Pylori Study Group. Buckley M, et al. **Ir J Med Sci** 1996 Oct-Dec;165 Suppl 5:1–11 (74 ref.)

Comparison of various Helicobacter pylori detection methods: serology, histology and bacteriology. Sternberg A, et al. **Isr J Med Sci** 1997 Mar;33(3):160–3

Evidence against colonic mucosa colonisation by Helicobacter pylori. Lack of a specific antibody response in homogenates of rectal endoscopic biopsies. Luzza F, et al. **Ital J Gastroenterol** 1996 Oct-Nov;28(8):447–51

Brush cytology: a reliable method to detect Helicobacter pylori. Dalla Libera M, et al. **J Clin Gastroenterol** 1996 Jun;22(4):317–21

Endoscopic diagnosis of gastritis in relation to Helicobacter pylori infection and subjective symptoms. Sakaki N. **J Clin Gastroenterol** 1995;21 Suppl 1:S135–9

Helicobacter pylori detected deep in gastric glands: an ultrastructural quantitative study. Taniguchi Y, et al. **J Clin Gastroenterol** 1995;21 Suppl 1:S169–73

Serum pepsinogen C: a useful marker of Helicobacter pylori eradication? Plebani M, et al. **J Clin Lab Anal** 1996; 10(1):1–5

Detection of Chlamydia pneumoniae but not Helicobacter pylori in atherosclerotic plaques of aortic aneurysms. Blasi F, et al. **J Clin Microbiol** 1996 Nov;34(11):2766–9

Serodiagnosis of Helicobacter pylori infection: comparison and correlation between enzyme-linked immunosorbent assay and rapid serological test results. Chen TS, et al. **J Clin Microbiol** 1997 Jan;35(1):184–6

Evaluation of 16S rRNA gene PCR with primers Hp1 and Hp2 for detection of Helicobacter pylori. Chong SK, et al. **J Clin Microbiol** 1996 Nov;34(11):2728–30

Quantitative study of Helicobacter pylori in gastric mucus by competitive PCR using synthetic DNA fragments. Furuta T, et al. **J Clin Microbiol** 1996 Oct;34(10):2421–5

Study of transmission routes of Helicobacter pylori in relation to seroprevalence of hepatitis A virus. Furuta T, et al. **J Clin Microbiol** 1997 Jul;35(7):1891–3

Diagnosis of Helicobacter pylori infection in a colony of rhesus monkeys (Macaca mulatta). Handt LK, et al. **J Clin Microbiol** 1997 Jan;35(1):165–8

Complex polysaccharides as PCR inhibitors in feces: Helicobacter pylori model. Monteiro L, et al. **J Clin Microbiol** 1997 Apr;35(4):995–8

Optimal combination of media for primary isolation of Helicobacter pylori from gastric biopsy specimens. Piccolomini R, et al. **J Clin Microbiol** 1997 Jun; 35(6):1541–4

Typing of Helicobacter pylori with monoclonal antibodies against Lewis antigens in lipopolysaccharide. Simoons-Smit IM, et al. **J Clin Microbiol** 1996 Sep; 34(9):2196–200

Heterogeneity in susceptibility to metronidazole among Helicobacter pylori isolates from patients with gastritis or peptic ulcer disease. Weel JF, et al. **J Clin Microbiol** 1996 Sep;34(9):2158–62

Helicobacter pylori antibody titres in serum, plasma and successively thawed specimens: implications for epidemiological and clinical studies. Pearce DC, et al. **J Clin Pathol** 1996 Dec;49(12):1017–9

Demonstration of Helicobacter pylori-like organisms in the gastric mucosa of captive exotic carnivores. Jakob W, et al. **J Comp Pathol** 1997 Jan;116(1):21–33

Helicobacter pylori seropositivity and cardiovascular risk factors in a multicultural workforce. Scragg RK, et al. **J Epidemiol Community Health** 1996 Oct;50(5):578–9

Significance of Helicobacter pylori infection as a risk factor in gastric cancer: serological and histological studies. Barreto-Zuñiga R, et al. **J Gastroenterol** 1997 Jun; 32(3):289–94

Association of Helicobacter pylori and diffuse type gastric cancer. Handa Y, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:29–32

Detection of Helicobacter pylori DNA in gastric juice by the polymerase chain reaction: comparison with findings in bacterial culture and the detection of tissue IgA and serum IgG antibodies against Helicobacter pylori. Matsukura N, et al. **J Gastroenterol** 1995 Dec;30(6):689–95

Helicobacter pylori infection in childhood: H. pylori isolation rate in gastric juice in relation to positive serum antibody rates. Okuda M, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:6–8

Failure to isolate Helicobacter pylori from stray cats indicates that H. pylori in cats may be an anthroponosis—an animal infection with a human pathogen. El-Zaatari FA, et al. **J Med Microbiol** 1997 May;46(5):372–6

Superoxide dismutase activity in Helicobacter pylori–positive antral gastritis in children. Broide E, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):609–13

Helicobacter pylori gastritis in a child with sickle cell anemia and recurrent abdominal pain. Kennedy L, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr;19(2):163–4

Oral carriage of Helicobacter pylori: a review. Madinier IM, et al. **J Periodontol** 1997 Jan;68(1):2–6 (55 ref.)

Scientific information document Helicobacter pylori [news] Tennant B. **J Small Anim Pract** 1996 Dec;37(12):609–10

Practice guidelines for treatment of peptic ulcer disease [letter; comment] Tsang P, et al. **JAMA** 1996 Oct 9; 276(14):1136; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.

Does the use of chopsticks for eating transmit Helicobacter pylori? [letter] Leung WK, et al. **Lancet** 1997 Jul 5; 350(9070):31

Accuracy of near-patient blood tests for Helicobacter pylori [letter; comment] Wilcox MH. **Lancet** 1996 Nov 16; 348(9038):1390. Comment on: Lancet 1996 Aug 31;348(9027):617.

Experimental Helicobacter pylori infection in association with other bacteria. Isogai H, et al. **Microbiol Immunol** 1997;41(4):361–5

Identification and eradication of Helicobacter pylori in an isolated patient population. Myers D. **Mil Med** 1997 Jul; 162(7):507–9

Helicobacter pylori in kidney allograft recipients: high prevalence of colonization and low incidence of active inflammatory lesions. Hruby Z, et al. **Nephron** 1997; 75(1):25–9

Helicobacter pylori infection in gastric xanthomas: immunohistochemical analysis of 145 lesions. Hori S, et al. **Pathol Int** 1996 Aug;46(8):589–93

Helicobacter pylori in areas of intestinal metaplasia in gastric antral mucosa. Misra V, et al. **Pathology** 1997 Aug; 29(3):327–8

Helicobacter pylori–associated gastric lymphoma in a girl. Sharon N, et al. **Pediatr Hematol Oncol** 1997 Mar-Apr; 14(2):177–80

Chronic abdominal pain and Helicobacter pylori. Adams RM. **Pediatr Infect Dis J** 1997 May;16(5):534–5

Sociodemographic, hygienic and nutritional correlates of Helicobacter pylori infection of young Bangladeshi children. Clemens J, et al. **Pediatr Infect Dis J** 1996 Dec; 15(12):1113–8

Non-ulcer dyspepsia and Helicobacter pylori infection—morphological analysis according to the Sydney system—changes before and after treatment. Lewy-Trenda I, et al. **Pol J Pathol** 1996;47(2):57–63

Short-term eradication therapy for Helicobacter pylori does not reduce the incidence of gastric metaplasia in duodenal ulcer patients. Rudnicka L, et al. **Pol J Pathol** 1997; 48(2):103–6

Regression of a large gastric MALT lymphoma with antibiotic treatment to eradicate Helicobacter pylori. Martin J, et al. **Postgrad Med J** 1997 Feb;73(856):109–10

Laboratory diagnosis of Helicobacter pylori infection by polymerase chain reaction. Ichikawa Y, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan;91(1):117–28

Helicobacter pylori and lymphoid follicles in primary gastric MALT-lymphoma in Mexico. Herrera-Goepfert R, et al. **Rev Invest Clin** 1996 Jul-Aug;48(4):261–5

Clinical value of Helicobacter pylori identification by histochemical methods in patients with chronic gastritis. Raica M, et al. **Rom J Morphol Embryol** 1996 Jan-Jun; 42(1-2):117–21

Seroprevalence of Helicobacter pylori in south Sweden and Iceland. Bergenzaun P, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1157–61

Gastric mucosa-associated lymphoid tissue in autoimmune thyroid diseases. Cammarota G, et al. **Scand J Gastroenterol** 1997 Sep;32(9):869–72

Gastritis classified in accordance with the Sydney system in patients with primary Sjögren's syndrome. Collin P, et al. **Scand J Gastroenterol** 1997 Feb;32(2):108–11

Helicobacter pylori infection accelerates gene expression of glicentin in the gastric mucosa. Its association with intestinal metaplasia of the stomach. Ishihara S, et al. **Scand J Gastroenterol** 1997 May;32(5):460–4

Gastric juice levels of lactoferrin and Helicobacter pylori infection. Nakao K, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):530–4

Usefulness of the 14C urea breath test as a semi-quantitative monitoring instrument after therapy for Helicobacter pylori infection. van de Wouw BA, et al. **Scand J Gastroenterol** 1997 Feb;32(2):112–7

Intragastric pH during treatment with omeprazole: role of

Helicobacter pylori and H. pylori-associated gastritis. Verdú EF, et al. **Scand J Gastroenterol** 1996 Dec; 31(12):1151–6

Helicobacter pylori and gastric carcinogenesis. Kuipers EJ, et al. **Scand J Gastroenterol Suppl** 1996;218:103–5 (33 ref.)

Advantages and disadvantages of current diagnostic tests for the detection of Helicobacter pylori. Mégraud F. **Scand J Gastroenterol Suppl** 1996;215:57–62 (39 ref.)

Diagnosis of Helicobacter pylori infection. When to use which test and why. Rune SJ. **Scand J Gastroenterol Suppl** 1996;215:63–5

Diagnosis of Helicobacter pylori infection. Tytgat GN. **Scand J Gastroenterol Suppl** 1996;215:56

Working party report of the Gastroenterological Society of Singapore. Part II--Helicobacter pylori and non-ulcer dyspepsia in Singapore. Kang JY, et al. **Singapore Med J** 1996 Aug;37(4):428–9

Helicobacter pylori and gastric neoplasia. Sharma BC, et al. **Trop Gastroenterol** 1996 Oct–Dec;17(4):236–7 (23 ref.)

Helicobacter pylori and gastroduodenal disorders: new approaches for prevention, diagnosis and treatment. Kotloff KL. **Vaccine** 1996 Aug;14(12):1174–5

Helicobacter pylori and stomach ulcers [letter; comment] Pike R, et al. **Vet Rec** 1996 Aug 24;139(8):196. Comment on: Vet Rec 1996 Aug 17;139(7):172.

[Labeling DNA probe by polymerase chain reaction] Lü X, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar; 27(1):111–3 (Eng. Abstr.) **(Chi)**

[Helicobacter pylori. Which patients should be examined and treated?] Lauritsen K, et al. **Nord Med** 1997 Jun; 112(6):192–4 (Eng. Abstr.) **(Dan)**

[Medico-economic aspects of the treatment of duodenal ulcer: from antisecretory treatment to eradication of Helicobacter pylori] Carrère MO, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1023–30 (Eng. Abstr.) **(Fre)**

[Characteristics of Helicobacter pylori infection in the Nouméa Hospital Center (letter)] Peroux JL, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1069–71 **(Fre)**

[Isolation of Helicobacter pylori: necessity of control of transport conditions] Meunier O, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):82–5 (Eng. Abstr.) **(Fre)**

[The epidemiology of helicobacteriosis in humans; studies of the survival capacity of the microbe in food] Böhmler G, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct; 103(10):438–43 (Eng. Abstr.) **(Ger)**

[Epidemiology and pathogenesis of Helicobacter pylori infection] Hackelsberger A, et al. **Schweiz Rundsch Med Prax** 1996 Nov 5;85(45):1439–43 (Eng. Abstr.) **(Ger)**

[Helicobacter pylori, chronic gastritis and precancerous gastric manifestations] Testino G, et al. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):145–51 (Eng. Abstr.) **(Ita)**

[The relationship between hemorrhagic gastric ulcers often appearing among in the great Hanshin-Awaji earthquake sufferers and Helicobacter pylori infections] Kurokawa M, et al. **Kansenshogaku Zasshi** 1996 Sep;70(9):970–5 (Eng. Abstr.) **(Jpn)**

[Trial for isolation of Helicobacter pylori form fecal specimen by immunomagnetic beads separation] Osaki T, et al. **Kansenshogaku Zasshi** 1997 Jul;71(7):628–33 (Eng. Abstr.) **(Jpn)**

[Development of a detection system for Helicobacter pylori DNA in gastric juice] Tamatsukuri S, et al. **Kansenshogaku Zasshi** 1996 Jul;70(7):710–6 (Eng. Abstr.) **(Jpn)**

[Helicobacter pylori clones in the stomach] Matsukura N, et al. **Nippon Ika Daigaku Zasshi** 1997 Apr;64(2):187–8 **(Jpn)**

[A rapid Helicobacter test in general practice. A needed test or a textbook example of how to create health issues?] Claudi T, et al. **Tidsskr Nor Laegeforen** 1997 Feb 10; 117(4):560–1 **(Nor)**

[Duodenogastric reflux and Helicobacter pylori infection in chronic gastritis--evaluation of risk factor significance and risk factor interactions] Kopański Z, et al. **Folia Med Cracov** 1995;36(1–4):21–32 (Eng. Abstr.) **(Pol)**

[Helicobacter pylori--comparison of selected diagnostic methods] Kopański Z, et al. **Folia Med Cracov** 1995; 36(1–4):33–45 (Eng. Abstr.) **(Pol)**

[The effect of Helicobacter pylori infection and duodenogastric reflux on the histology of gastric mucosa in peptic ulcers] Kopański Z, et al. **Folia Med Cracov** 1996; 37(1–2):3–14 (Eng. Abstr.) **(Pol)**

[Early results of treating Helicobacter pylori infections in patients with gastric ulcer and gastritis] Jarczyk G, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):174–8 (Eng. Abstr.) **(Pol)**

[Urease test, microbiologic tests, histologic and serologic tests for the evaluation of Helicobacter pylori infections in persons with peptic ulcer and gastritis] Jarczyk G, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):219–22 (Eng. Abstr.) **(Pol)**

[Helicobacter pylori infections--relative risk factor for stomach neoplasm] Muszyński J, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):223–6 **(Pol)**

[Progress in diagnosis of infections brought on by Helicobacter pylori] Chmiela M, et al. **Postepy Hig Med Dosw** 1997;51(1):75–93 (109 ref.) (Eng. Abstr.) **(Pol)**

[Helicobacter pylori, endocrine cells of the gastric mucosa, and their function in duodenal ulcer] Zverkov IV, et al. **Arkh Patol** 1996 Jan–Feb;58(1):33–7 (Eng. Abstr.) **(Rus)**

[Diagnostic methods for the detection of Helicobacter pylori. Old and new techniques (editorial)] Corti RE, et al. **Acta Gastroenterol Latinoam** 1995;25(5):307–8 **(Spa)**

[Helicobacter pylori: comparative study of different diagnostic techniques] Fazzio S, et al. **Acta Gastroenterol Latinoam** 1995;25(5):269–76 (Eng. Abstr.) **(Spa)**

[Eradication treatment of Helicobacter pylori in children with triple therapy: can we do it in two weeks? Letter] Díez Domingo J, et al. **An Esp Pediatr** 1996 Nov;45(5):549 **(Spa)**

[Correlation among endoscopic, histological, and microbiological findings in gastroduodenal pathology associated with Helicobacter pylori] Carmona Sáez TJ, et al. **An Med Interna** 1996 Jun;13(6):269–73 (Eng. Abstr.) **(Spa)**

[Comparative study of HELISAL T.M. RAPID BLOOD and ELISA, JATROX and pathologic anatomy in the diagnosis of Helicobacter pylori infection] Huelin J, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):825–7 (Eng. Abstr.) **(Spa)**

[Peptic ulcer: control of pH and/or eradication of Helicobacter pylori] Bosques Padilla F. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S25–9 **(Spa)**

[Helicobacter pylori screening can be improved. A rapid whole-blood test is effective] Pettersson L, et al. **Lakartidningen** 1997 Aug 27;94(35):2951, 2954 **(Swe)**

METABOLISM

Non-endoscopic tests in the diagnosis of Helicobacter pylori infection. Atherton JC. **Aliment Pharmacol Ther** 1997 Apr; 11 Suppl 1:11–20 (107 ref.)

The influence of isolated doses of drugs, feeding and colonic bacterial ureolysis on urea breath test results. Perri F, et al. **Aliment Pharmacol Ther** 1995 Dec;9(6):705–9

Helicobacter pylori vacuolating cytotoxin binds to the 140-kDa protein in human gastric cancer cell lines, AZ-521 and AGS. Yahiro K, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):629–32

Consequences of attachment of Helicobacter pylori to gastric cells. Segal ED. **Biomed Pharmacother** 1997;51(1):5–12 (69 ref.)

Vacuolating toxin from Helicobacter pylori activates cellular signaling and pepsinogen secretion in human gastric adenocarcinoma cells. Chan EC, et al. **FEBS Lett** 1996 Dec 9;399(1–2):127–30

Cryptic domains of a 60 kDa heat shock protein of Helicobacter pylori bound to bovine lactoferrin. Amini HR, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3–4):247–55

Immunochemical properties of a 60 kDa cell surface-associated heat shock-protein (Hsp60) from Helicobacter pylori. Amini HR, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3–4):163–72

Helicobacter pylori utilises urea for amino acid synthesis. Williams CL, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):87–94

Isolation of a cell surface component of Helicobacter pylori that binds H type 2, Lewis(a), and Lewis(b) antigens. Alkout AM, et al. **Gastroenterology** 1997 Apr; 112(4):1179–87

Effect of Helicobacter pylori products and recombinant cytokines on gastrin release from cultured canine G cells. Beales I, et al. **Gastroenterology** 1997 Aug;113(2):465–71

Absence of effect of Lewis A and Lewis B expression on adherence of Helicobacter pylori to human gastric cells. Clyne M, et al. **Gastroenterology** 1997 Jul;113(1):72–80

MALT-type lymphoma of the stomach is associated with Helicobacter pylori strains expressing the CagA protein. Eck M, et al. **Gastroenterology** 1997 May;112(5):1482–6

The effect of gastrin-releasing peptide on gastrin and somatostatin messenger RNAs in humans infected with Helicobacter pylori. Gibbons AH, et al. **Gastroenterology** 1997 Jun;112(6):1940–7

The effect of environmental pH on the proton motive force of Helicobacter pylori. Meyer-Rosberg K, et al. **Gastroenterology** 1996 Oct;111(4):886–900

Helicobacter pylori infection and omeprazole efficacy [letter; comment] Verdú EF, et al. **Gastroenterology** 1996 Nov; 111(5):1401–2. Comment on: Gastroenterology 1996 Mar;110(3):947–50.

Adhesion of Helicobacter pylori strains to alpha-2,3-linked sialic acids. Hirmo S, et al. **Glycoconj J** 1996 Dec; 13(6):1005–11

Cell surface glycosaminoglycans are not involved in the adherence of Helicobacter pylori to cultured Hs 198.St human gastric cells, Hs 746T human gastric adenocarcinoma cells, or HeLa cells. Kawasaki H, et al. **Glycoconj J** 1996 Oct;13(5):873–7

Profile of Helicobacter pylori cytotoxin derived from two areas of Japan with different prevalence of atrophic gastritis. Ito S, et al. **Gut** 1996 Dec;39(96):800–6

Association of cytotoxin production and neutrophil activation by strains of Helicobacter pylori isolated from patients with peptic ulceration and chronic gastritis [see comments] Zhang QB, et al. **Gut** 1996 Jun;38(6):841–5. Comment in: Gut 1997 Mar;40(3):431.

Bactericidal effect of plaunotol, a cytoprotective antiulcer agent, against Helicobacter pylori. Koga T, et al. **J Antimicrob Chemother** 1996 Sep;38(3):387–97

Acid-induced dissociation of VacA, the Helicobacter pylori vacuolating cytotoxin, reveals its pattern of assembly. Cover TL, et al. **J Cell Biol** 1997 Aug 25;138(4):759–69

Expression of vacuolating cytotoxin in clinical isolates of Helicobacter pylori. Kodama K, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:9–11

Induction and epitope analysis of Helicobacter pylori heat shock protein. Yamaguchi H, et al. **J Gastroenterol** 1996 Nov;31 Suppl 9:12–5

A rapid and simple method to quantify Helicobacter pylori adhesion to human gastric MKN-28 cells. Hayashi S, et al. **J Gastroenterol Hepatol** 1997 May;12(5):373–5

Cytotoxin and urease activities of Helicobacter pylori isolates from Japanese patients with atrophic gastritis or duodenal ulcer. Murakita H, et al. **J Gastroenterol Hepatol** 1996 Sep; 11(9):819–24

High acid secretion may protect the gastric mucosa from injury caused by ammonia produced by Helicobacter pylori in duodenal ulcer patients. Shibata T, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):674–80

Binding of human plasminogen and lactoferrin by Helicobacter pylori coccoid forms. Khin MM, et al. **J Med Microbiol** 1996 Dec;45(6):433–9

Studies on the relationship between adhesive activity and haemagglutination by Helicobacter pylori. Osaki T, et al. **J Med Microbiol** 1997 Feb;46(2):117–21

Amino acid utilisation and deamination of glutamine and asparagine by Helicobacter pylori. Stark RM, et al. **J Med Microbiol** 1997 Sep;46(9):793–800

Identification of heparan sulphate binding surface proteins of Helicobacter pylori: inhibition of heparan sulphate binding with sulphated carbohydrate polymers. Utt M, et al. **J Med Microbiol** 1997 Jul;46(7):541–6

Flow cytometric analysis of the heat shock protein 60 expressed on the cell surface of Helicobacter pylori. Yamaguchi H, et al. **J Med Microbiol** 1996 Oct;45(4):270–7

New approach to 13C-urea breath test: capsule-based modification with low-dose of 13C-urea in the diagnosis of Helicobacter pylori infection. Bielański W, et al. **J Physiol Pharmacol** 1996 Sep;47(3):545–53

Physiological, immunohistochemical and molecular aspects of gastric adaptation to stress, aspirin and to H. pylori-derived gastrotoxins. Konturek PC. **J Physiol Pharmacol** 1997 Mar;48(1):3–42 (89 ref.)

The urea cycle of Helicobacter pylori. Mendz GL, et al. **Microbiology** 1996 Oct;142 (Pt 10):2959–67

The vacuolating cytotoxin of Helicobacter pylori. Cover TL. **Mol Microbiol** 1996 Apr;20(2):241–6 (41 ref.)

Acid, protons and Helicobacter pylori. Sachs G, et al. **Yale J Biol Med** 1996 May-Jun;69(3):301–16 (47 ref.)

PATHOGENICITY

In vitro models to study attachment and invasion of Helicobacter pylori. Birkness KA, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:293–5

Helicobacter pylori lipopolysaccharide inhibits acid secretion in pylorus-ligated conscious rats. Ootsubo C, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):532–7

Helicobacter pylori, individual host specificity and human disease. European Helicobacter Study Group Meeting, Copenhagen, October 16–19, 1996. Berg DE, et al. **Bioessays** 1997 Jan;19(1):86–90

Helicobacter pylori infection in ulcer pathogenesis. Malfertheiner P, et al. **Digestion** 1997;58 Suppl 1:17–20 (35 ref.)

Significance of ammonia in the genesis of gastric epithelial lesions induced by Helicobacter pylori: an in vitro study with different bacterial strains and urea concentrations. Sommi P, et al. **Digestion** 1996;57(5):299–304

Spiral bacteria in the human stomach: the gastric helicobacters. Dubois A. **Emerg Infect Dis** 1995 Jul–Sep; 1(3):79–85 (59 ref.)

Tumour necrosis factor alpha stimulates gastrin release from canine and human antral G cells: possible mechanism of the Helicobacter pylori-gastrin link. Beales IL, et al. **Eur J Clin Invest** 1996 Jul;26(7):609–11

Uptake on Helicobacter pylori research. Pathogenesis and host response. Crabtree JE, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):619–20

Helicobacter pylori interacts with heparin and heparin-dependent growth factors. Ascencio F, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3–4):265–72

Cell envelope characteristics of Helicobacter pylori: their role in adherence to mucosal surfaces and virulence. Clyne M, et al. **FEMS Immunol Med Microbiol** 1996 Dec 1; 16(2):141–55

The production of neuraminidase and fucosidase by Helicobacter pylori: their possible relationship to pathogenicity. Dwarakanath AD, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3–4):213–16

Oral bacteria inhibit Helicobacter pylori growth. Ishihara K, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):355–61

Production of reactive oxygen species by gastric cells in association with Helicobacter pylori. Bagchi D, et al. **Free Radic Res** 1996 Jun;24(6):439–50

Gastritis, Helicobacter pylori, and proton pump inhibitors [editorial] [see comments] Sachs G. **Gastroenterology** 1997 Mar;112(3):1033–6. Comment in: Gastroenterology 1997 Mar;112(3):707–17.

HELICOBACTER PYLORI

Helicobacter pylori—a review. Deodhar L.
Indian J Med Sci 1996 Nov;50(11):293–8 (13 ref.)
Determinants of Helicobacter pylori pathogenicity. Labigne A, et al. **Infect Agents Dis** 1996 Oct;5(4):191–202 (110 ref.)
Evidence for ethnic tropism of Helicobacter pylori. Campbell S, et al. **Infect Immun** 1997 Sep;65(9):3708–12
Role of vacuolating cytotoxin in gastritis due to Helicobacter pylori in gnotobiotic piglets. Eaton KA, et al.
Infect Immun 1997 Aug;65(8):3462–4
Binding and internalization of the Helicobacter pylori vacuolating cytotoxin by epithelial cells. Garner JA, et al.
Infect Immun 1996 Oct;64(10):4197–203
Role of adherence in interleukin-8 induction in Helicobacter pylori–associated gastritis. Rieder G, et al.
Infect Immun 1997 Sep;65(9):3622–30
The endotoxin of Helicobacter pylori is a modulator of host-dependent gastritis. Sakagami T, et al.
Infect Immun 1997 Aug;65(8):3310–6
Ecology of Helicobacter pylori in the human stomach. Blaser MJ. **J Clin Invest** 1997 Aug 15;100(4):759–62
Serum CagA antibodies in asymptomatic subjects and patients with peptic ulcer [letter] Fraggetta F, et al.
J Clin Pathol 1997 Jul;50(7):620
Induction of gastric ulcer and intestinal metaplasia in mongolian gerbils infected with Helicobacter pylori. Hirayama F, et al. **J Gastroenterol** 1996 Oct;31(5):755–7
Pathogenic diversity of Helicobacter pylori. Mégraud F.
J Gastroenterol 1997 Apr;32(2):278–81 (28 ref.)
Optimized BlaM–transposon shuttle mutagenesis of Helicobacter pylori allows the identification of novel genetic loci involved in bacterial virulence. Odenbreit S, et al. **Mol Microbiol** 1996 Apr;20(2):361–73
Serum IgG antibodies to Helicobacter pylori in patients with recurrent aphthous stomatitis and other oral disorders. Porter SR, et al.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1997 Mar;83(3):325–8
Role of lipopolysaccharide and related cytokines in Helicobacter pylori infection. Pece S, et al.
Recenti Prog Med 1997 May;88(5):237–41 (36 ref.)
Colony variation of Helicobacter pylori: pathogenic potential is correlated to cell wall lipid composition. Bukholm G, et al. **Scand J Gastroenterol** 1997 May;32(5):445–54
Pathogenic properties of Helicobacter pylori [letter; comment] Nardone G, et al. **Scand J Gastroenterol** 1997 Apr;32(4):399–400. Comment on: Scand J Gastroenterol Suppl 1996;215:22–31.
Pathogenic properties of Helicobacter pylori [see comments] Moran AP. **Scand J Gastroenterol Suppl** 1996;215:22–31 (139 ref.). Comment in: Scand J Gastroenterol 1997 Apr;32(4):399–400.
The expanding genus of Helicobacter: pathogenic and zoonotic potential. Fox JG. **Semin Gastrointest Dis** 1997 Jul;8(3):124–41 (165 ref.)
The immunobiology of Helicobacter pylori gastritis. Genta RM. **Semin Gastrointest Dis** 1997 Jan;8(1):2–11 (74 ref.)
The role of Helicobacter pylori in the pathophysiology of duodenal ulcer disease and gastric cancer. McColl KE, et al. **Semin Gastrointest Dis** 1997 Jul;8(3):142–55 (88 ref.)
The cag pathogenicity island: mechanistic insights [letter; comment] Christie PJ. **Trends Microbiol** 1997 Jul;5(7):264–5 . Comment on: Trends Microbiol 1997 May;5(5):205–8.
Did the inheritance of a pathogenicity island modify the virulence of Helicobacter pylori? [see comments] Covacci A, et al. **Trends Microbiol** 1997 May;5(5):205–8 (25 ref.). Comment in: Trends Microbiol 1997 Jul;5(7):264–5.
Miles of isles [letter] Ochman H. **Trends Microbiol** 1997 Jun;5(6):222
Helicobacter pylori and hormones. Calam J.
Yale J Biol Med 1996 Jan–Feb;69(1):39–49 (77 ref.)
Helicobacter pylori and its interaction with chief and parietal cells. Cave DR. **Yale J Biol Med** 1996 Jan–Feb;69(1):91–8 (44 ref.)
Long-term effects of Helicobacter pylori infection on acid and pepsin secretion. Halter F, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):99–104 (39 ref.)
Helicobacter pylori: bacterial factors and interaction with the epithelial cells. Mégraud F. **Yale J Biol Med** 1996 Jan–Feb;69(1):35–7 (16 ref.)
Helicobacter pylori: controversial and unsolved issues. Tytgat GN, et al. **Yale J Biol Med** 1996 May–Jun;69(3):261–4
Helicobacter pylori and congestive gastropathy. Bahnacy A, et al. **Z Gastroenterol** 1997 Feb;35(2):109–12
[Helicobacter pylori and ulcer disease (see comments)] Rácz I. **Orv Hetil** 1996 Jul 7;137(27):1459–67 (50 ref.) (Eng. Abstr.). Comment in: Orv Hetil 1996 Dec 29;137(52):2947–8. **(Hun)**
[Critical review on the WHO/IARC report regarding carcinogenicity of Helicobacter pylori] Tanida N, et al. **Nippon Rinsho** 1997 Apr;55(4):995–1002 (20 ref.) (Eng. Abstr.) **(Jpn)**
[The importance of nitric oxide (NO) in the development of Helicobacter pylori infection] Kopański Z, et al.
Folia Med Cracov 1996;37(1–2):49–59 (110 ref.) (Eng. Abstr.) **(Pol)**
[Chronic gastritis in children: evaluation after eleven years] Michalowicz-Wojczyńska E, et al. **Pediatr Pol** 1996 Sep;71(9):781–7 (Eng. Abstr.) **(Pol)**
[Helicobacter pylori infection—clinical consequences and management] Dzieniszewski J. **Pol Arch Med Wewn** 1997;97 Spec No:13–22 (59 ref.) **(Pol)**
[Immunologic reactions in infections caused by Helicobacter pylori] Chmiela M, et al. **Postepy Hig Med Dosw** 1997;51(2):115–38 (138 ref.) (Eng. Abstr.) **(Pol)**
[Cytotoxin vacuolization of Helicobacter pylori] Przondo-Mordarska A, et al. **Postepy Hig Med Dosw** 1996;50(4):309–20 (38 ref.) (Eng. Abstr.) **(Pol)**
[The pathogenic role of Helicobacter pylori] Ivashkin VT, et al. **Ter Arkh** 1993;65(2):11–3 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Pepsinogens and pepsins: aggresion on gastric mucosa and Helicobacter influence. Testino G, et al.
Acta Gastroenterol Latinoam 1995;25(5):301–5
Gastric MALT–lymphoma and Helicobacter pylori infection. Bayerdörffer E, et al. **Aliment Pharmacol Ther** 1997 Apr; 11 Suppl 1:89–94 (32 ref.)
Helicobacter pylori and the risk and management of associated diseases: gastritis, ulcer disease, atrophic gastritis and gastric cancer. Kuipers EJ.
Aliment Pharmacol Ther 1997 Apr;11 Suppl 1:71–88 (193 ref.)
Reinfection versus recrudescence in Helicobacter pylori infection. van der Ende A, et al.
Aliment Pharmacol Ther 1997 Apr;11 Suppl 1:55–61 (68 ref.)
The role of Helicobacter pylori infection in non–ulcer dyspepsia. Veldhuyzen van Zanten SJ.
Aliment Pharmacol Ther 1997 Apr;11 Suppl 1:63–9 (55 ref.)
Helicobacter pylori induces gene expression in human gastric cells identified by mRNA differential display. Wong L, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):484–8
Helicobacter pylori lipopolysaccharide inhibition of gastric somatostatin receptor: effect of sucralfate. Piotrowski J, et al. **Biochem Mol Biol Int** 1997 Jul;42(3):545–51
Helicobacter pylori survival in gastric mucosa by generation of a pH gradient. Chen G, et al. **Biophys J** 1997 Aug; 73(2):1081–8
Adherence of Helicobacter pylori to the gastric mucosa. Clyne M, et al. **Can J Gastroenterol** 1997 Apr;11(3):243–8 (93 ref.)
Helicobacter pylori culture supernatant inhibits binding and proliferative response of human gastric cells to epidermal growth factor: implications for H.pylori interference with ulcer healing? Fujiwara Y, et al. **Digestion** 1997; 58(3):299–303
Acid secretion and Helicobacter pylori. Sachs G, et al.
Digestion 1997;58 Suppl 1:8–13 (16 ref.)
The small GTP binding protein rab7 is essential for cellular vacuolation induced by Helicobacter pylori cytotoxin. Papini E, et al. **EMBO J** 1997 Jan 2;16(1):15–24
Helicobacter pylori stimulates granulocyte-macrophage colony–stimulating factor (GM-CSF) production from cultured antral biopsies and a human gastric epithelial cell line. Beales IL, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):451–5
Helicobacter pylori–human polymorphonuclear leucocyte interaction in the presence of ammonia. Mayo K, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):457–61
Gastric mucosal hydrophobicity in duodenal ulceration: role of Helicobacter pylori infection density and mucus lipids. Asante M, et al. **Gastroenterology** 1997 Aug;113(2):449–54
Adherence of Helicobacter pylori to areas of incomplete intestinal metaplasia in the gastric mucosa. Genta RM, et al. **Gastroenterology** 1996 Nov;111(5):1206–11
Pattern of adhesion molecule expression on vascular endothelium in Helicobacter pylori–associated antral gastritis. Hatz RA, et al. **Gastroenterology** 1997 Jun; 112(6):1908–19
Helicobacter pylori infection activates NF-kappa B in gastric epithelial cells. Keates S, et al. **Gastroenterology** 1997 Oct; 113(4):1099–109
Recognition of glycoconjugates by Helicobacter pylori. Comparison of two sialic acid–dependent specificities based on haemagglutination and binding to human erythrocyte glycoconjugates. Miller-Podraza H, et al. **Glycoconj J** 1997 Jun;14(4):467–71
Prevention of Helicobacter pylori infection by lactobacilli in a gnotobiotic murine model. Kabir AM, et al. **Gut** 1997 Jul;41(1):49–55
Blood groups Lewis(b) and ABH expression in gastric mucosa: lack of inter-relation with Helicobacter pylori colonisation and occurrence of gastric MALT lymphoma. Oberhuber G, et al. **Gut** 1997 Jul;41(1):37–42
Cytotoxin production and neutrophil activation by strains of Helicobacter pylori isolated from patients with peptic ulceration and chronic gastritis [letter; comment] Rautelin H, et al. **Gut** 1997 Mar;40(3):431. Comment on: Gut 1996 Jun;38(6):841–5.
Mechanisms involved in Helicobacter pylori–induced interleukin-8 production by a gastric cancer cell line, MKN45. Aihara M, et al. **Infect Immun** 1997 Aug; 65(8):3218–24
Coccoid and spiral Helicobacter pylori differ in their abilities to adhere to gastric epithelial cells and induce interleukin-8 secretion. Cole SP, et al. **Infect Immun** 1997 Feb; 65(2):843–6
Binding of Helicobacter pylori to sialic acid–containing glycolipids of various origins separated on thin-layer chromatograms. Miller-Podraza H, et al. **Infect Immun** 1997 Jun;65(6):2480–2
Increased frequency of sister chromatid exchange in Helicobacter pylori infection [letter] Ozkul Y, et al.
Infection 1997 Jan–Feb;25(1):53–4
Identification and characterization of an operon of Helicobacter pylori that is involved in motility and stress adaptation. Beier D, et al. **J Bacteriol** 1997 Aug; 179(15):4676–83
Analysis of interleukin-8 secretion induced by Helicobacter pylori from the gastric epithelial cell line MKN45: a mechanism independent of the intensity of cytotoxicity. Takagi A, et al. **J Gastroenterol Hepatol** 1997 May; 12(5):368–72
Pathogenesis and prevention of stomach cancer. Youn HS, et al. **J Korean Med Sci** 1996 Oct;11(5):373–85 (96 ref.)
Electron microscopic study of the morphological changes of gastric mucous cell induced by Helicobacter pylori in human gastric ulcers. Ogata T, et al.
J Submicrosc Cytol Pathol 1996 Apr;28(2):255–64
Bacterium-host interactions monitored by time-lapse photography. Löfman C, et al. **Nat Med** 1997 Aug; 3(8):930–1
Induction of host signal transduction pathways by Helicobacter pylori. Segal ED, et al.
Proc Natl Acad Sci U S A 1997 Jul 8;94(14):7595–9
Gastric inflammation and neutrophil-activating and cytotoxin-producing Helicobacter pylori strains. Rautelin H, et al. **Scand J Gastroenterol** 1996 Jul;31(7):639–42
[The antagonistic action of lactobacilli on Helicobacter pylori] Bazhenov LG, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 May–Jun; (3):89–91 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Case for the panel. Helicobacter pylori, III: ultrastructural detection of outer multicircular membranes of unknown origin and function. Silva MT, et al. **Ultrastruct Pathol** 1996 Nov–Dec;20(6):593–7

HELICOPTER AMBULANCES see **AIR AMBULANCES**

HELICOPTERS see **AIRCRAFT**

HELIGMOSOMATOIDEA

ANATOMY & HISTOLOGY

Two new nematode species of Bunomystrongylus n. gen. (Trichostrongylina:Heligmonellidae) collected from Bunomys spp. (Rodentia:Muridae) of Sulawesi, Indonesia. Hasegawa H, et al. **J Parasitol** 1996 Dec;82(6):998–1004

PHYSIOLOGY

Variability of sex ratio, mating probability and egg production in an intestinal nematode in its fluctuating host population [published erratum appears in Int J Parasitol 1996 Oct;26(10):1137–8] Haukisalmi V, et al.
Int J Parasitol 1996 Jul;26(7):755–63

HELIGMOSOMOIDES POLYGYRUS see **NEMATOSPIROIDES DUBIUS**

HELIOTHERAPY

Sun-related behaviour in individuals with dysplastic naevus syndrome. Brandberg Y, et al. **Acta Derm Venereol** 1996 Sep;76(5):381–4
Demographic evaluation of successful antipsoriatic climatotherapy at the Dead Sea (Israel) DMZ Clinic. Harari M, et al. **Int J Dermatol** 1997 Apr;36(4):304–8
Predictors of sunbathing and sunscreen use in college undergraduates. Hillhouse JJ, et al. **J Behav Med** 1996 Dec; 19(6):543–61
Commercial tanning bed treatment is an effective psoriasis treatment: results from an uncontrolled clinical trial. Fleischer AB Jr, et al. **J Invest Dermatol** 1997 Aug; 109(2):170–4
Assessment of sun-related behaviour in individuals with dysplastic naevus syndrome: a comparison between diary recordings and questionnaire responses. Brandberg Y, et al. **Melanoma Res** 1997 Aug;7(4):347–51
[Psoriasis treatment at the Dead Sea] Knudsen EA, et al. **Ugeskr Laeger** 1996 Nov 4;158(45):6440–3 (Eng. Abstr.) **(Dan)**

ADVERSE EFFECTS

Sunscreens, suntans, and skin cancer. Local councils should remove sunbeds from leisure centres [letter; comment] [see comments] Norris JF. **BMJ** 1996 Oct 12;313(7062):941–2 . Comment on: BMJ 1996 Jun 29;312(7047):1621–2. Comment in: BMJ 1997 Apr 26;314(7089):1280–1.
Dangers of sunbeds are greater in the commercial sector [letter; comment] Wright A, et al. **BMJ** 1997 Apr 26; 314(7089):1280–1. Comment on: BMJ 1996 Oct 12;313(7062):941–2.
"Safe sun": preventing adult disease in adolescence [editorial; comment] Litt IF. **J Adolesc Health** 1996 Dec;19(6):377. Comment on: J Adolesc Health 1996 Dec;19(6):409–15.
Promoting healthier behaviors, attitudes, and beliefs toward sun exposure in parents of young children. Rodrigue JR. **J Consult Clin Psychol** 1996 Dec;64(6):1431–6
[Degradation of the ozone layer and heliotherapy] Gushchin GK, et al. **Dokl Akad Nauk** 1997 May;354(1):127–30 **(Rus)**

PSYCHOLOGY

A survey of sunbathing practices on three Connecticut State beaches. Zitser BS, et al. **Conn Med** 1996 Oct;60(10):591–4
Attitudes toward health risks and sunbathing behavior. Beech JR, et al. **J Psychol** 1996 Nov;130(6):669–77

STATISTICS & NUMERICAL DATA

A survey of sunbathing practices on three Connecticut State beaches. Zitser BS, et al. **Conn Med** 1996 Oct;60(10):591–4
Predictors of sun exposure in adolescents in a southeastern U.S. population [see comments] Reynolds KD, et al. **J Adolesc Health** 1996 Dec;19(6):409–15. Comment in: J Adolesc Health 1996 Dec;19(6):377.
Sunbed use in Swedish urban adolescents related to behavioral characteristics. Boldeman C, et al. **Prev Med** 1997 Jan–Feb;26(1):114–9

HELIOTROPISM see **PHOTOTROPISM**

HELIUM

Effects of high helium pressure on intracellular and field potential responses in the CA1 region of the in vitro rat hippocampus. Southan AP, et al. **Eur J Neurosci** 1996 Dec; 8(12):2571–81
DNA double- and single-strand breaks induced by accelerated He2+ and N6+ ions in human cells: relative biological effectiveness is dependent on the relative contribution of the direct and indirect effects. Nygren J, et al. **Int J Radiat Biol** 1996 Oct;70(4):421–7
EEG and sleep disturbances during dives at 450 msw in helium-nitrogen-oxygen mixture. Rostain JC, et al. **J Appl Physiol** 1997 Aug;83(2):575–82
Limits to flight energetics of hummingbirds hovering in hypodense and hypoxic gas mixtures. Chai P, et al. **J Exp Biol** 1996 Oct;199 (Pt 10):2285–95
Hummingbird hovering performance in hyperoxic heliox: effects of body mass and sex. Chai P, et al. **J Exp Biol** 1996 Dec;199 (12):2745–55
The effects of breathing He–O2 mixtures on maximal oxygen consumption in normoxic and hypoxic men. Esposito F, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):215–22
Comparison of heliox and oxygen as washing gases for the nitrogen washout technique in preterm infants. Poets CF, et al. **Pediatr Res** 1996 Jun;39(6):1099–1102
[Effect of laparotomy and laparoscopy with CO2 or helium on bacterial translocation in the rat model] Jacobi CA, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:247–51 (Eng. Abstr.) **(Ger)**

ADMINISTRATION & DOSAGE

A comparison of the pathophysiologic effects of carbon dioxide, nitrous oxide, and helium pneumoperitoneum on intracranial pressure. Schöb OM, et al. **Am J Surg** 1996 Sep;172(3):248–53
Inhaled helium–oxygen revisited: effect of inhaled helium–oxygen during the treatment of status asthmaticus in children. Kudukis TM, et al. **J Pediatr** 1997 Feb; 130(2):217–24
Therapeutic options for severe, refractory status asthmaticus: inhalational anaesthetic agents, extracorporeal membrane oxygenation and helium/oxygen ventilation. Tobias JD, et al. **Paediatr Anaesth** 1997;7(1):47–57

ADVERSE EFFECTS

[Cytogenetic effects of hyperbaric factors] Kuzin SM, et al. **Aviakosm Ekolog Med** 1996;30(5):69–71 **(Rus)**

ANALYSIS

Modification of the open circuit N2 washout technique for measurement of functional residual capacity in premature infants. Hentschel R, et al. **Pediatr Pulmonol** 1997 Jun; 23(6):434–41
Detection of soft X-rays and a sensitive search for noble gases in comet Hale–Bopp. Krasnopolsky VA, et al. **Science** 1997 Sep 5;277(5331):1488–91

CHEMISTRY

Production of [18F]F2 using the 16O(3He,p)18F reaction. Bishop A, et al. **Nucl Med Biol** 1996 May;23(4):385–9

DIAGNOSTIC USE

Imaging of the lungs using 3He MRI: preliminary clinical experience in 18 patients with and without lung disease. Kauczor HU, et al. **J Magn Reson Imaging** 1997 May–Jun; 7(3):538–43
Dynamics of magnetization in hyperpolarized gas MRI of the lung. Johnson GA, et al. **Magn Reson Med** 1997 Jul; 38(1):66–71
Vocal cord dysfunction mimicking exercise-induced bronchospasm in adolescents [letter; comment] Weir M, et al. **Pediatrics** 1997 Jun;99(6):923–4. Comment on: Pediatrics 1996 Nov;98(5):971–4.
Normal and abnormal pulmonary ventilation: visualization at hyperpolarized He-3 MR imaging. Kauczor HU, et al. **Radiology** 1996 Nov;201(2):564–8
[The helium-3 MRT of pulmonary ventilation: the initial clinical applications] Kauczor HU, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):192–8 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Effects of pneumoperitoneum with carbon dioxide, argon, or helium on hemodynamic and respiratory function. Junghans T, et al. **Arch Surg** 1997 Mar;132(3):272–8
Augmented hyperventilation via normoxic helium breathing does not prevent exercise-induced hypoxemia. Buono MJ, et al. **Can J Appl Physiol** 1996 Aug;21(4):264–70
Ventilatory response to exercise in subjects breathing CO2 or HeO2. Babb TG. **J Appl Physiol** 1997 Mar;82(3):746–54
Oxygen pulse in guinea pigs in hyperbaric helium and hydrogen. Kayar SR, et al. **J Appl Physiol** 1997 Mar; 82(3):988–97
Ventilatory response to helium–oxygen breathing during exercise: effect of airway anesthesia. Krishnan BS, et al. **J Appl Physiol** 1997 Jul;83(1):82–8
Paradoxical helium and sulfur hexafluoride single-breath washouts in short-term vs. sustained microgravity. Lauzon AM, et al. **J Appl Physiol** 1997 Mar;82(3):859–65
Decompression comparison of helium and hydrogen in rats. Lillo RS, et al. **J Appl Physiol** 1997 Mar;82(3):892–901
A comparison of the hemodynamic and ventilatory effects of abdominal insufflation with helium and carbon dioxide in young swine. Liem TK, et al. **J Pediatr Surg** 1996 Feb; 31(2):297–300
Contribution of central 5-HT2 receptors in the occurrence of locomotor activity and myoclonia in freely moving rats exposed to high pressure. Kriem B, et al. **Neuroreport** 1996 Nov 4;7(15–17):2687–90
Ventilation and respiratory mechanics during exercise in younger subjects breathing CO2 or HeO2. Babb TG. **Respir Physiol** 1997 Jul;109(1):15–28
[The function of the brain structures in rabbits under the action of hyperbaric helium and nitrogen–oxygen mixtures] Sledkov AIu, et al. **Fiziol Zh** 1995 Sep–Dec;41(5–6):50–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Anomalous behavior of helium and sulfur hexafluoride during single-breath tests in sustained microgravity. Prisk GK, et al. **J Appl Physiol** 1996 Apr;80(4):1126–32

THERAPEUTIC USE

Heli-NO: enhanced gas exchange with nitric oxide in helium [letter] Petros AJ, et al. **Anesth Analg** 1996 Oct;83(4):888–9
Heliox therapy for pneumothorax: new indication for an old remedy. Barr J, et al. **Ann Emerg Med** 1997 Aug; 30(2):159–62
Helium and oxygen treatment of severe air–diving-induced neurologic decompression sickness. Shupak A, et al. **Arch Neurol** 1997 Mar;54(3):305–11
Helium/oxygen breathing improves hypoxemia after cardiac surgery. Yahagi N, et al. **Artif Organs** 1997 Jan;21(1):24–7
Oxy-helium treatment for refractory neurological decompression sickness: a case report. Goldenberg I, et al. **Aviat Space Environ Med** 1996 Jan;67(1):57–60
Prospective comparison of helium versus carbon dioxide pneumoperitoneum. Neuberger TJ, et al. **Gastrointest Endosc** 1996 Jan;43(1):38–41
Helium-oxygen therapy in the emergency department. McGee DL, et al. **J Emerg Med** 1997 May–Jun;15(3):291–6 (37 ref.)
HELIOX in children with acute severe asthma [letter] Carter ER, et al. **J Pediatr** 1997 Aug;131(2):333–4
Heliox in children with airway obstruction. Tobias JD. **Pediatr Emerg Care** 1997 Feb;13(1):29–32 (14 ref.)
Heliox in respiratory failure secondary to bronchiolitis: a new therapy. Paret G, et al. **Pediatr Pulmonol** 1996 Nov; 22(5):322–3
The safety of helium for abdominal insufflation. Fleming RY, et al. **Surg Endosc** 1997 Mar;11(3):230–4

HELIX (SNAILS)

Chemoattraction and penetration of Echinostoma trivolvis and E. caproni cercariae in the presence of Biomphalaria glabrata, Helisoma trivolvis, and Lymnaea elodes dialysate. Fried B, et al. **Parasitol Res** 1997;83(2):193–7

ANATOMY & HISTOLOGY

Morphology of interneurons in the procerebrum of the snail Helix aspersa. Ratté S, et al. **J Comp Neurol** 1997 Aug 4;384(3):359–72

CHEMISTRY

Annexin-immunoreactive proteins in the nervous system and eye of the gastropods, Aplysia and Helix. Kerschbaum HH, et al. **Brain Res** 1997 Jan 23;746(1–2):133–40
Isolation of bioactive compounds from Helix aspersa nerve tissue and the effect of pQPPLPRYamide on heart, esophagus and central neurons of H. aspersa and rectum of Anodonta woodiana. Ohtani M, et al. **Gen Pharmacol** 1997 Jul;29(1):103–11

CYTOLOGY

Neurons with different immunoreactivity form clusters in the CNS of Helix pomatia. Hernádi L, et al. **Acta Biol Hung** 1995;46(2–4):271–80

DRUG EFFECTS

Actions of neuroactive peptides and nitric oxide on Ascaris, Achatina and Helix tissues. Walker RJ, et al. **Acta Biol Hung** 1995;46(2–4):183–93
Dose-dependent effects of cadmium on the growth of snails in toxicity bioassays. Gomot A. **Arch Environ Contam Toxicol** 1997 Aug;33(2):209–16
Effect of molluscan neuropeptide RAPYFVamide on identified Helix pomatia L. neurons. Kiss T, et al. **Gen Pharmacol** 1997 Jul;29(1):97–102
Effects of cardioactive peptides on myocardial cAMP levels in the snail Helix aspersa. Reich G, et al. **Peptides** 1997; 18(3):355–60
[Effects of heavy metals on snail development. Use of snails as bio-indicators of heavy metal pollution for the preservation of human health] Gomot A. **Bull Acad Natl Med** 1997 Jan;181(1):59–74; discussion 74–5 (Eng. Abstr.) **(Fre)**
[Serotonin simulates the neuronal effects of nociceptive sensitization in the snail] Shevelkin AV, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May–Jun; 47(3):532–42 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

The specificity of an alpha-(1—>2)-L-galactosyltransferase from albumen glands of the snail Helix pomatia. Lüttge H, et al. **Carbohydr Res** 1997 Jan 17;297(3):281–8
[The properties of NADPHd-positive neurons in the brain of the snail] D'iakonova TL. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May–Jun; 47(3):543–52 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Allogeneic and xenogeneic grafts in pulmonate gastropod molluscs: fates of neural transplants. Gomot A, et al. **Dev Comp Immunol** 1996 May–Jun;20(3):193–205

METABOLISM

Na+ and Ca2+ cooperatively down regulate the A-type potassium currents in Helix neurons. Erdélyi L. **Acta Biol Hung** 1995;46(2–4):417–25
S-100-immunoreactive protein in Helix neurons. Hermann A, et al. **Acta Biol Hung** 1995;46(2–4):401–11
Annexins in the gastropod nervous system. Kerschbaum HH, et al. **Acta Biol Hung** 1995;46(2–4):413–6
S-100-immunoreactivity in spontaneously active snail neurons. Kubista H, et al. **Brain Res** 1996 Apr 15; 716(1–2):53–8
Synapsin-like molecules in Aplysia punctata and Helix pomatia: identification and distribution in the nervous system and during the formation of synaptic contacts in vitro. Cibelli G, et al. **Eur J Neurosci** 1996 Dec; 8(12):2530–43
Antibody-coated electrodes for detecting somatic exocytosis of somatostatin-like material in Helix neurones. Darbon P, et al. **J Neurosci Methods** 1996 Aug;67(2):197–201
Glial potassium channels activated by neuronal firing or intracellular cyclic AMP in Helix. Gommerat I, et al. **J Physiol (Lond)** 1996 Sep 15;495 (Pt 3):649–64
Receptor inactivation by dye-neuropeptide conjugates. 3. Comparative binding of dye-neuropeptide conjugates to FMRFamide receptors of Helix aspersa and Loligo pealei. Feigenbaum JJ, et al. **Peptides** 1996;17(8):1279–84
Effects of cardioactive peptides on myocardial cAMP levels in the snail Helix aspersa. Reich G, et al. **Peptides** 1997; 18(3):355–60
Modulation of ligand-gated dopamine channels in Helix neurones. Green KA, et al. **Pflugers Arch** 1997 Jul; 434(3):313–22
Direct and modulatory effects of FMRFamide, SKPYMRFamide and acetyl-SKPYMRFamide on LPa2, LPa3, and RPa3 identified neurons of Helix lucorum. Pivovarov AS, et al. **Regul Pept** 1996 Dec 17;67(3):169–78

MICROBIOLOGY

Molecular and phenotypic features of aeromonads isolated from snails (Helix aspersa) affected with a new summer disease. Kodjo A, et al. **Zentralbl Veterinarmed [B]** 1997 Jun;44(4):245–52

PHYSIOLOGY

Intracellular regulation of plasticity in Helix. Grinkevich LN, et al. **Acta Biol Hung** 1995;46(2–4):263–6
Actions of Zn2+ on spontaneous, stimulus and transmitter evoked events in Helix neurons. Kovács T, et al. **Acta Biol Hung** 1995;46(2–4):427–30
Two types of reorganization in multifunctional neural networks of Helix pomatia L. Rózsa KS. **Acta Biol Hung** 1995;46(2–4):247–62
Actions of neuroactive peptides and nitric oxide on Ascaris, Achatina and Helix tissues. Walker RJ, et al. **Acta Biol Hung** 1995;46(2–4):183–93
Instrumental conditioning of the activity of putative command neurons in the mollusk Helix. Tsitolovsky LE, et al. **Brain Res** 1997 Jan 16;745(1–2):271–82
Alterations of neuronal fibers after epileptic activity induced by pentylenetetrazole: fine structure investigated by calcium cytochemistry and neurobiotin labeling (buccal ganglia, Helix pomatia). Wiemann M, et al.

Cell Tissue Res 1996 Oct;286(1):43–53

Metabotropic GABA receptors regulate acetylcholine responses on snail neurons. Azatian KV, et al. **Gen Pharmacol** 1997 Jul;29(1):67–72

Effectors of metabolic depression in an estivating pulmonate snail (Helix aspersa): whole animal and in vitro tissue studies. Pedler S, et al. **J Comp Physiol [B]** 1996; 166(6):375–81

Mathematical model of pacemaker activity in bursting neurons of snail, Helix pomatia. Berezetskaya NM, et al. **J Theor Biol** 1996 Nov 21;183(2):207–18

Deterministic chaos in mathematical model of pacemaker activity in bursting neurons of snail, Helix pomatia. Komendantov AO, et al. **J Theor Biol** 1996 Nov 21; 183(2):219–30

Influence of the level of the transmembrane potential on the dynamics of the extinction of the amplitude of the synaptic reactions of the snail under voltage clamping conditions. Gusev PV. **Neurosci Behav Physiol** 1996 May–Jun; 26(3):266–72

Suppression of synaptic input of defense behavior command neurons by stimulation of neurons of the mesocerebrum in a preparation of the isolated CNS of the common snail. Maksimova OA. **Neurosci Behav Physiol** 1996 May–Jun; 26(3):259–65

Influence of egg cannibalism on growth, survival and feeding in hatchlings of the land snail Helix aspersa Müller (Gastropoda, Pulmonata, Stylommatophora). Desbuquois C. **Reprod Nutr Dev** 1997;37(2):191–202

[The effect of antibodies against nerve-specific protein S100 on calcium channels in the somatic membrane of snail neurons] Gainutdinov KhL, et al. **Dokl Akad Nauk** 1996 Oct;350(4):554–6 **(Rus)**

[Changes in the electrical characteristics of the command neurons during the acquisition of a conditioned defensive reflex in the snail] Gainutdinov KhL, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May–Jun; 46(3):614–6 **(Rus)**

[The role of G-proteins and second messenger systems in the plasticity of the avoidance reflex in the snail] Grinkevich LN, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep–Oct; 46(5):886–92 (Eng. Abstr.) **(Rus)**

[A comparison of serotonin- and dopaminergic neuronal systems in sexually mature and juvenile terrestrial mollusks of the genera Helix and Eobania] Ierusalimskiĭ VN, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May–Jun; 47(3):563–76 (Eng. Abstr.) **(Rus)**

[The effect of the serotonin level on the postsynaptically induced potentiation of neuronal responses in the snail] Malyshev AIu, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May–Jun; 47(3):553–62 (Eng. Abstr.) **(Rus)**

HELIX-LOOP-HELIX MOTIFS

Basic helix–loop–helix transcription factors and the cross-regulation of sulphate and phosphate metabolism in yeast. Crowther DJ, et al. **Biochem Soc Trans** 1996 May; 24(2):354–9 (53 ref.)

De novo design of native proteins: characterization of proteins intended to fold into antiparallel, rop-like, four-helix bundles. Betz SF, et al. **Biochemistry** 1997 Mar 4;36(9):2450–8

Global topology & stability and local structure & dynamics in a synthetic spin-labeled four-helix bundle protein. Gibney BR, et al. **Biochemistry** 1997 Mar 11; 36(10):2798–806

Covalently linking BHLH subunits of MASH-1 increases specificity of DNA binding. Künne AG, et al. **Biochemistry** 1997 Feb 4;36(5):1085–91

Ah receptor nuclear translocator protein heterogeneity is altered after heterodimerization with the Ah receptor. Tsai JC, et al. **Biochemistry** 1997 Jul 22;36(29):9066–72

Expression of the Id family helix–loop–helix regulators during growth and development in the hematopoietic system. Cooper CL, et al. **Blood** 1997 May 1;89(9):3155–65

Hematopoietic-specific genes are not induced during in vitro differentiation of scl-null embryonic stem cells. Elefanty AG, et al. **Blood** 1997 Aug 15;90(4):1435–47

Expression of SCL is normal in transfusion-dependent Diamond–Blackfan anemia but other bHLH proteins are deficient. Zhang MY, et al. **Blood** 1997 Sep 1;90(5):2068–74

Transient expression of the basic helix–loop–helix protein NSCL-2 in the mouse cerebellum during postnatal development. Haire MF, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):174–8

Prolonged alteration in E-box binding after a single systemic kainate injection: potential relation to F1/GAP-43 gene expression. Kinney WR, et al. **Brain Res Mol Brain Res** 1996 May;38(1):25–36

Expression and functional role of the Id HLH family in cultured astrocytes. Tzeng SF, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1-2):136–42

Collier, a novel regulator of Drosophila head development, is expressed in a single mitotic domain. Crozatier M, et al. **Curr Biol** 1996 Jun 1;6(6):707–18

MASH1 maintains competence for BMP2-induced neuronal differentiation in post-migratory neural crest cells. Lo L, et al. **Curr Biol** 1997 Jun 1;7(6):440–50

Cloning and characterization of chicken Paraxis: a regulator of paraxial mesoderm development and somite formation. Barnes GL, et al. **Dev Biol** 1997 Sep 1;189(1):95–111

Restricted expression of a novel murine atonal-related bHLH protein in undifferentiated neural precursors. Gradwohl G, et al. **Dev Biol** 1996 Nov 25;180(1):227–41

Mist1: a novel basic helix–loop–helix transcription factor exhibits a developmentally regulated expression pattern. Lemercier C, et al. **Dev Biol** 1997 Feb 1;182(1):101–13

Expression of the helix-loop-helix genes Id-1 and NSCL-1 during cerebellar development. Duncan MK, et al. **Dev Dyn** 1997 Jan;208(1):107–14

Maid: a maternally transcribed novel gene encoding a potential negative regulator of bHLH proteins in the mouse egg and zygote. Hwang SY, et al. **Dev Dyn** 1997 Jun; 209(2):217–26

Monoclonal antimyogenin antibodies define epitopes outside the bHLH domain where binding interferes with protein–protein and protein–DNA interactions. Wright WE, et al. **Dev Genet** 1996;19(2):131–8

Mash1 activates a cascade of bHLH regulators in olfactory neuron progenitors. Cau E, et al. **Development** 1997 Apr; 124(8):1611–21

A C. elegans E/Daughterless bHLH protein marks neuronal but not striated muscle development. Krause M, et al. **Development** 1997 Jun;124(11):2179–89

Two-step induction of chordotonal organ precursors in Drosophila embryogenesis. Okabe M, et al. **Development** 1997 Mar;124(5):1045–53

E47 activates the Ig-heavy chain and TdT loci in non-B cells. Choi JK, et al. **EMBO J** 1996 Sep 16;15(18):5014–21

Cdk2-dependent phosphorylation of Id2 modulates activity of E2A-related transcription factors. Hara E, et al. **EMBO J** 1997 Jan 15;16(2):332–42

The p48 DNA-binding subunit of transcription factor PTF1 is a new exocrine pancreas-specific basic helix–loop–helix protein. Krapp A, et al. **EMBO J** 1996 Aug 15; 15(16):4317–29

The semidominant Mi(b) mutation identifies a role for the HLH domain in DNA binding in addition to its role in protein dimerization. Steingrímsson E, et al. **EMBO J** 1996 Nov 15;15(22):6280–9

Conversion of ectoderm into a neural fate by ATH-3, a vertebrate basic helix–loop–helix gene homologous to Drosophila proneural gene atonal. Takebayashi K, et al. **EMBO J** 1997 Jan 15;16(2):384–95

Role of basic-helix-loop-helix transcription factors in Sertoli cell differentiation: identification of an E-box response element in the transferrin promoter. Chaudhary J, et al. **Endocrinology** 1997 Feb;138(2):667–75

The basic region/helix–loop–helix/leucine repeat transcription factor USF interferes with Ras transformation. Aperlo C, et al. **Eur J Biochem** 1996 Oct 1;241(1):249–53

Identification in a fish species of two Id (inhibitor of DNA binding/differentiation)-related helix–loop–helix factors expressed in the slow oxidative muscle fibers. Rescan PY. **Eur J Biochem** 1997 Aug 1;247(3):870–6

Attenuated function of a variant form of the helix–loop–helix protein, Id-3, generated by an alternative splicing mechanism. Deed RW, et al. **FEBS Lett** 1996 Sep 9; 393(1):113–6

tap, a Drosophila bHLH gene expressed in chemosensory organs. Gautier P, et al. **Gene** 1997 May 20;191(1):15–21

Cloning of the human twist gene: its expression is retained in adult mesodermally-derived tissues. Wang SM, et al. **Gene** 1997 Mar 10;187(1):83–92

Homeodomain factor Nkx2-5 controls left/right asymmetric expression of bHLH gene eHand during murine heart development. Biben C, et al. **Genes Dev** 1997 Jun 1; 11(11):1357–69

Interaction and functional collaboration of p300/CBP and bHLH proteins in muscle and B-cell differentiation. Eckner R, et al. **Genes Dev** 1996 Oct 1;10(19):2478–90

Transcriptional activation of the melanocyte-specific genes by the human homolog of the mouse Microphthalmia protein. Yasumoto K, et al. **J Biochem (Tokyo)** 1995 Nov; 118(5):874–81

Novel regulation of the helix–loop–helix protein Id1 by S5a, a subunit of the 26 S proteasome. Anand G, et al. **J Biol Chem** 1997 Aug 1;272(31):19140–51

Distinct mechanisms direct SCL/tal-1 expression in erythroid cells and CD34 positive primitive myeloid cells. Bockamp EO, et al. **J Biol Chem** 1997 Mar 28; 272(13):8781–90

Physical and functional interactions between the transcriptional inhibitors Id3 and ITF-2b. Evidence toward a novel mechanism regulating muscle-specific gene expression. Chen B, et al. **J Biol Chem** 1997 Jan 24; 272(4):2459–63

Cleavage site for sterol-regulated protease localized to a leu–Ser bond in the lumenal loop of sterol regulatory element-binding protein-2. Duncan EA, et al. **J Biol Chem** 1997 May 9;272(19):12778–85

A nuclear localization signal of human aryl hydrocarbon receptor nuclear translocator/hypoxia-inducible factor 1beta is a novel bipartite type recognized by the two components of nuclear pore-targeting complex. Eguchi H, et al. **J Biol Chem** 1997 Jul 11;272(28):17640–7

Conserved E boxes function as part of the enhancer in hypersensitive site 2 of the beta-globin locus control region. Role of basic helix–loop–helix proteins. Elnitski L, et al. **J Biol Chem** 1997 Jan 3;272(1):369–78

The basic helix–loop–helix–zipper transcription factor USF1 regulates expression of the surfactant protein-A gene. Gao E, et al. **J Biol Chem** 1997 Sep 12;272(37):23398–406

Characterization of a subset of the basic-helix–loop–helix–PAS superfamily that interacts with components of the dioxin signaling pathway. Hogenesch JB, et al. **J Biol Chem** 1997 Mar 28;272(13):8581–93

Activation of hypoxia-inducible transcription factor depends primarily upon redox-sensitive stabilization of its alpha subunit. Huang LE, et al. **J Biol Chem** 1996 Dec 13; 271(50):32253–9

Transactivation and inhibitory domains of hypoxia-inducible factor 1alpha. Modulation of transcriptional activity by oxygen tension. Jiang BH, et al. **J Biol Chem** 1997 Aug 1;272(31):19253–60

Differential interactions of Id proteins with basic-helix–loop–helix transcription factors. Langlands K, et al. **J Biol Chem** 1997 Aug 8;272(32):19785–93

Hypoxia-inducible factor-1 mediates transcriptional activation of the heme oxygenase-1 gene in response to hypoxia. Lee PJ, et al. **J Biol Chem** 1997 Feb 28; 272(9):5375–81

Mmot1, a new helix–loop–helix transcription factor gene displaying a sharp expression boundary in the embryonic mouse brain. Malgaretti N, et al. **J Biol Chem** 1997 Jul 11;272(28):17632–9

Basic helix–loop–helix protein sequences determining differential inhibition by calmodulin and S-100 proteins. Onions J, et al. **J Biol Chem** 1997 Sep 19;272(38):23930–7

Oxygen-regulated transferrin expression is mediated by hypoxia-inducible factor-1. Rolfs A, et al. **J Biol Chem** 1997 Aug 8;272(32):20055–62

Rtg3p, a basic helix–loop–helix/leucine zipper protein that functions in mitochondrial-induced changes in gene expression, contains independent activation domains. Rothermel BA, et al. **J Biol Chem** 1997 Aug 8; 272(32):19801–7

Identification of complexes between the COOH-terminal domains of sterol regulatory element-binding proteins (SREBPs) and SREBP cleavage-activating protein. Sakai J, et al. **J Biol Chem** 1997 Aug 8;272(32):20213–21

Mapping the protein/DNA contact sites of the Ah receptor and Ah receptor nuclear translocator. Swanson HI, et al. **J Biol Chem** 1996 Dec 6;271(49):31657–65

Glucose-dependent liver gene expression in upstream stimulatory factor 2 -/- mice. Vallet VS, et al. **J Biol Chem** 1997 Aug 29;272(35):21944–9

The molecular interaction of Fas and FAP-1. A tripeptide blocker of human Fas interaction with FAP-1 promotes Fas-induced apoptosis. Yanagisawa J, et al. **J Biol Chem** 1997 Mar 28;272(13):8539–45

Molecular analysis of a novel winged helix protein, WIN. Expression pattern, DNA binding property, and alternative splicing within the DNA binding domain. Yao KM, et al. **J Biol Chem** 1997 Aug 8;272(32):19827–36

Distinct roles for MAX protein isoforms in proliferation and apoptosis. Zhang H, et al. **J Biol Chem** 1997 Jul 11; 272(28):17416–24

Expression of basic helix–loop–helix transcription factors in explant hematopoietic progenitors. Quesenberry PJ, et al. **J Cell Biochem** 1996 Jun 1;61(3):478–88

The human H-twist gene is located at 7p21 and encodes a B-HLH protein that is 96% similar to its murine M-twist counterpart. Bourgeois P, et al. **Mamm Genome** 1996 Dec; 7(12):915–7

ALF1, a basic helix–loop–helix transcription factor, maps to mouse chromosome 9. Nielsen AL, et al. **Mamm Genome** 1996 Mar;7(3):244

Promoter selective transcriptional synergy mediated by sterol regulatory element binding protein and Sp1: a critical role for the Btd domain of Sp1. Athanikar JN, et al. **Mol Cell Biol** 1997 Sep;17(9):5193–200

Myc versus USF: discrimination at the cad gene is determined by core promoter elements. Boyd KE, et al. **Mol Cell Biol** 1997 May;17(5):2529–37

Selective utilization of basic helix–loop–helix–leucine zipper proteins at the immunoglobulin heavy-chain enhancer. Carter RS, et al. **Mol Cell Biol** 1997 Jan;17(1):18–23

Ectopic TAL-1/SCL expression in phenotypically normal or leukemic myeloid precursors: proliferative and antiapoptotic effects coupled with a differentiation blockade. Condorelli GL, et al. **Mol Cell Biol** 1997 May; 17(5):2954–69

Synergy between suppressor of Hairless and Notch in regulation of Enhancer of split m gamma and m delta expression. Eastman DS, et al. **Mol Cell Biol** 1997 Sep; 17(9):5620–8

Transcription enhancer factor 1 interacts with a basic helix–loop–helix zipper protein, Max, for positive regulation of cardiac alpha-myosin heavy-chain gene expression. Gupta MP, et al. **Mol Cell Biol** 1997 Jul; 17(7):3924–36

Transcriptional synergy between LIM-homeodomain proteins and basic helix–loop–helix proteins: the LIM2 domain determines specificity. Johnson JD, et al. **Mol Cell Biol** 1997 Jul;17(7):3488–96

The absence of the transcription activator TFE3 impairs activation of B cells in vivo. Merrell K, et al. **Mol Cell Biol** 1997 Jun;17(6):3335–44

The murine Sim-2 gene product inhibits transcription by active repression and functional interference. Moffett P, et al. **Mol Cell Biol** 1997 Sep;17(9):4933–47

Identification of positively and negatively acting elements

regulating expression of the E2F2 gene in response to cell growth signals. Sears R, et al. **Mol Cell Biol** 1997 Sep; 17(9):5227–35

Hormonal regulation of an islet-specific enhancer in the pancreatic homeobox gene STF-1. Sharma S, et al. **Mol Cell Biol** 1997 May;17(5):2598–604

Mutations in TWIST, a basic helix-loop-helix transcription factor, in Saethre-Chotzen syndrome [see comments] Howard TD, et al. **Nat Genet** 1997 Jan;15(1):36–41. Comment in: Nat Genet 1997 Jan;15(1):3–4.

Regulation of cardiac mesodermal and neural crest development by the bHLH transcription factor, dHAND [see comments] [published erratum appears in Nat Genet 1997 Aug;16(4):410] Srivastava D, et al. **Nat Genet** 1997 Jun;16(2):154–60. Comment in: Nat Genet 1997 Jun;16(2):119–21.

Requirement of the paraxis gene for somite formation and musculoskeletal patterning. Burgess R, et al. **Nature** 1996 Dec 12;384(6609):570–3

The homeodomain protein Pho2 and the basic-helix-loop-helix protein Pho4 bind DNA cooperatively at the yeast PHO5 promoter. Barbarić S, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4479–86

Identification of interaction partners for the basic-helix-loop-helix protein E47. Dear TN, et al. **Oncogene** 1997 Feb 27;14(8):891–8

The inhibition of cyclin B1 gene transcription in quiescent NIH3T3 cells is mediated by an E-box. Farina A, et al. **Oncogene** 1996 Sep 19;13(6):1287–96

The dual role of helix-loop—helix-zipper protein USF in ribosomal RNA gene transcription in vivo. Ghosh AK, et al. **Oncogene** 1997 Feb 6;14(5):589–94

Evidence to suggest that expression of MITF induces melanocyte differentiation and haploinsufficiency of MITF causes Waardenburg syndrome type 2A. Tachibana M. **Pigment Cell Res** 1997 Feb-Apr;10(1-2):25–33 (33 ref.)

A natural classification of the basic helix-loop-helix class of transcription factors. Atchley WR, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5172–6

Neuronal type information encoded in the basic-helix-loop-helix domain of proneural genes. Chien CT, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13239–44

Molecular characterization of two mammalian bHLH-PAS domain proteins selectively expressed in the central nervous system. Zhou YD, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):713–8

Engineered disulfide bonds in recombinant human interferon-gamma: the impact of the N-terminal helix A and the AB-loop on protein stability. Waschütza G, et al. **Protein Eng** 1996 Oct;9(10):905–12

Myc and Max homologs in Drosophila. Gallant P, et al. **Science** 1996 Nov 29;274(5292):1523–7

[Molecular analysis of MIDA1, which associates with Id1] Shoji W, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1219–25 (16 ref.) **(Jpn)**

DRUG EFFECTS

The DNA methyltransferase inhibitor 5-azacytidine specifically alters the expression of helix-loop-helix proteins Id1, Id2 and Id3 during neuronal differentiation. Persengiev SP, et al. **Neuroreport** 1997 Jul 7;8(9–10):2091–5

GENETICS

Helix-loop-helix-type transcription factor (HES-1) is expressed in osteoblastic cells, suppressed by 1,25(OH)2 vitamin D3, and modulates 1,25(OH)2 vitamin D3 enhancement of osteopontin gene expression. Matsue M, et al. **Bone** 1997 Apr;20(4):329–34

Molecular cloning of a human neuroD from a neuroblastoma cell line specifically expressed in the fetal brain and adult cerebellum. Yokoyama M, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):135–9

Id genes encoding inhibitors of transcription are expressed during in vitro astrocyte differentiation and in cell lines derived from astrocytic tumors. Andres-Barquin PJ, et al. **Cancer Res** 1997 Jan 15;57(2):215–20

Expression of neurogenic basic helix-loop-helix genes in primitive neuroectodermal tumors. Rostomily RC, et al. **Cancer Res** 1997 Aug 15;57(16):3526–31

Tissue-specific expression of human achaete-scute homologue-1 in neuroendocrine tumors: transcriptional regulation by dual inhibitory regions. Chen H, et al. **Cell Growth Differ** 1997 Jun;8(6):677–86

Defining the regulatory networks for muscle development. Molkentin JD, et al. **Curr Opin Genet Dev** 1996 Aug; 6(4):445–53 (58 ref.)

Basic helix-loop-helix genes in neural development. Lee JE. **Curr Opin Neurobiol** 1997 Feb;7(1):13–20 (45 ref.)

Regulation of paraxis expression and somite formation by ectoderm- and neural tube-derived signals. Sosić D, et al. **Dev Biol** 1997 May 15;185(2):229–43

Expression patterns of Id1, Id2, and Id3 are highly related but distinct from that of Id4 during mouse embryogenesis. Jen Y, et al. **Dev Dyn** 1996 Nov;207(3):235–52

MesP1: a novel basic helix-loop-helix protein expressed in the nascent mesodermal cells during mouse gastrulation. Saga Y, et al. **Development** 1996 Sep;122(9):2769–78

hairy mediates dominant repression in the Drosophila embryo. Barolo S, et al. **EMBO J** 1997 May 15; 16(10):2883–91

Rox, a novel bHLHZip protein expressed in quiescent cells that heterodimerizes with Max, binds a non-canonical E box and acts as a transcriptional repressor. Meroni G, et al. **EMBO J** 1997 May 15;16(10):2892–906

Efg1p, an essential regulator of morphogenesis of the human pathogen Candida albicans, is a member of a conserved class of bHLH proteins regulating morphogenetic processes in fungi. Stoldt VR, et al. **EMBO J** 1997 Apr 15; 16(8):1982–91

TCFL4: a gene at 17q21.1 encoding a putative basic helix-loop-helix leucine-zipper transcription factor. Bjerknes M, et al. **Gene** 1996 Nov 28;181(1-2):7–11

Overexpression of Stra13, a novel retinoic acid-inducible gene of the basic helix-loop-helix family, inhibits mesodermal and promotes neuronal differentiation of P19 cells. Boudjelal M, et al. **Genes Dev** 1997 Aug 15; 11(16):2052–65

Endothelial PAS domain protein 1 (EPAS1), a transcription factor selectively expressed in endothelial cells. Tian H, et al. **Genes Dev** 1997 Jan 1;11(1):72–82

Genomic organization and chromosomal localization of the gene TCF15 encoding the early mesodermal basic helix-loop-helix factor bHLH-EC2. Hidai H, et al. **Genomics** 1995 Dec 10;30(3):598–601

Genetic mapping of four mouse bHLH genes related to Drosophila proneural gene atonal. Isaka F, et al. **Genomics** 1996 Nov 1;37(3):400–2

Sclerotome-related helix-loop-helix type transcription factor (scleraxis) mRNA is expressed in osteoblasts and its level is enhanced by type-beta transforming growth factor. Liu Y, et al. **J Endocrinol** 1996 Dec;151(3):491–9

Relax, a novel rat bHLH transcriptional regulator transiently expressed in the ventricular proliferating zone of the developing central nervous system. Ravassard P, et al. **J Neurosci Res** 1997 Apr 15;48(2):146–58

The DNA methyltransferase inhibitor 5-azacytidine specifically alters the expression of helix-loop-helix proteins Id1, Id2 and Id3 during neuronal differentiation. Persengiev SP, et al. **Neuroreport** 1997 Jul 7;8(9–10):2091–5

Inhibition of muscle-specific gene expression by Id3: requirement of the C-terminal region of the protein for stable expression and function. Chen B, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):423–30

[Cloning, expression and characterization of HIV-1 gp60 partially or completely deleted in the V3 loop] Lavallée C, et al. **C R Acad Sci III** 1996 Nov;319(11):983–90 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Involvement of the E2A basic helix-loop-helix protein in immunoglobulin heavy chain class switching. Goldfarb AN, et al. **Mol Immunol** 1996 Aug;33(11-12):947–56

PHYSIOLOGY

Aryl hydrocarbon receptor-mediated signal transduction. Rowlands JC, et al. **Crit Rev Toxicol** 1997 Mar;27(2):109–34 (223 ref.)

A basic helix-loop-helix-leucine zipper transcription complex in yeast functions in a signaling pathway from mitochondria to the nucleus. Jia Y, et al. **Mol Cell Biol** 1997 Mar;17(3):1110–7

Haematopoiesis. Master regulator unmasked [news] Green T. **Nature** 1996 Oct 17;383(6601):575, 577

Expression and function of Enhancer of split bHLH proteins during Drosophila neurogenesis. Bray SJ. **Perspect Dev Neurobiol** 1997;4(4):313–23 (65 ref.)

[Helix-loop-helix transcription factor network regulating mammalian neurogenesis] Kageyama R, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):989–96 (25 ref.) **(Jpn)**

HELIX-TURN-HELIX MOTIFS

A 13-kDa protein with a helix-turn-helix motif is encoded by bacterial operons related to the SRP pathway. Samuelsson T, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):839–43

DNA polymerase beta in abasic site repair: a structurally conserved helix-hairpin-helix motif in lesion detection by base excision repair enzymes. Mullen GP, et al. **Biochemistry** 1997 Apr 22;36(16):4713–7 (27 ref.)

Cooperative interactions between paired domain and homeodomain. Jun S, et al. **Development** 1996 Sep; 122(9):2639–50

Linker length and composition influence the flexibility of Oct-1 DNA binding. van Leeuwen HC, et al. **EMBO J** 1997 Apr 15;16(8):2043–53

New insights on DNA recognition by ets proteins from the crystal structure of the PU.1 ETS domain-DNA complex [published erratum appears in J Biol Chem 1996 Dec 20;271(51):33156] Pio F, et al. **J Biol Chem** 1996 Sep 20; 271(38):23329–37

Recognition of promoter DNA by subdomain 4.2 of Escherichia coli sigma 70: a knowledge based model of -35 hexamer interaction with 4.2 helix-turn-helix motif. Reddy BV, et al. **J Biomol Struct Dyn** 1997 Feb; 14(4):407–19

Structural classification of HTH DNA-binding domains and protein-DNA interaction modes. Wintjens R, et al. **J Mol Biol** 1996 Sep 20;262(2):294–313 (89 ref.)

Analysis of frequency (frq) clock gene homologs: evidence for a helix-turn-helix transcription factor. Lewis MT, et al. **Mol Gen Genet** 1997 Jan 27;253(4):401–14

DNA-binding activity of the A-factor receptor protein and its recognition DNA sequences. Onaka H, et al. **Mol Microbiol** 1997 Jun;24(5):991–1000

A single substitution in the putative helix-turn-helix motif of the pleiotropic activator PrfA attenuates Listeria monocytogenes virulence. Sheehan B, et al. **Mol Microbiol** 1996 May;20(4):785–97

Different DNA contact schemes are used by two winged helix proteins to recognize a DNA binding sequence. Bravieri R, et al. **Nucleic Acids Res** 1997 Jul 15; 25(14):2888–96

GENETICS

Combinations of the alpha-helix-turn-alpha-helix motif of TetR with respective residues from LacI or 434Cro: DNA recognition, inducer binding, and urea-dependent denaturation. Backes H, et al. **Biochemistry** 1997 May 6; 36(18):5311–22

HELLP SYNDROME

Postpartum HELLP syndrome after a normotensive pregnancy. Esan K, et al. **Br J Gen Pract** 1997 Jul; 47(420):441–2

The HELLP syndrome. Geary M. **Br J Obstet Gynaecol** 1997 Aug;104(8):887–91 (58 ref.)

Neonatal morbidity and mortality associated with maternal haemolysis elevated liver enzymes and low platelets syndrome. Dötsch J, et al. **Eur J Pediatr** 1997 May; 156(5):389–91

HELLP syndrome: a condition of varied presentation. Gleeson R, et al. **Ir J Med Sci** 1996 Oct-Dec;165(4):265–7 (14 ref.)

[HELLP syndrome. Review and update] Dreyfus M, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):9–15 (30 ref.) (Eng. Abstr.) **(Fre)**

[Course and regression of HELLP syndrome] Figini E, et al. **Minerva Ginecol** 1996 Oct;48(10):405–8 (Eng. Abstr.) **(Ita)**

[Anesthesia for a patient with HELLP syndrome] Takahashi H, et al. **Masui** 1996 Nov;45(11):1380–3 (Eng. Abstr.) **(Jpn)**

[HELLP syndrome: case report and review of the literature] Mendoza H, et al. **Gastroenterol Hepatol** 1996 Mar; 19(3):159–61 (Eng. Abstr.) **(Spa)**

[HELLP syndrome. Analysis of 102 cases] Helguera-Martinez AM, et al. **Ginecol Obstet Mex** 1996 Dec;64:528–33 (Eng. Abstr.) **(Spa)**

BLOOD

Clinical use of human hepatocyte growth factor in the early detection of HELLP syndrome. Iioka H. **Gynecol Obstet Invest** 1996;41(2):103–5

Elevated serum levels of the c-erbB-2 encoded oncoprotein fragment in cases of pure preeclampsia and HELLP syndrome. Meden H, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):213–7

Marker for liver damage in neonates born to mothers with HELLP syndrome [letter] Knapen M, et al. **Lancet** 1997 May 24;349(9064):1519–20

The HELLP syndrome: its association with unexplained elevation of MSAFP and MShCG in the second trimester. Morssink LP, et al. **Prenat Diagn** 1997 Jul;17(7):601–6

COMPLICATIONS

Pregnancy complicated by liver dysfunction: possible pathogenesis of vasospasm. Matsuda Y, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):678–9

[Liver rupture in pregnancy: a life-threatening complication of the HELLP syndrome (see comments)] Weemhoff RA, et al. **Ned Tijdschr Geneeskd** 1996 Oct 26;140(43):2140–2 (Eng. Abstr.). Comment in: Ned Tijdschr Geneeskd 1997 Jan 25;141(4):215–6. **(Dut)**

[Liver hematomA and liver infarction: a severe complication of HELLP syndrome] Hahn U, et al. **Rofo Fortschr Geb Roatgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):460–2 **(Ger)**

[HELLP (hemolysis, elevated liver enzymes and low platelets) syndrome and acute pancreatitis complicated with severe preeclampsia] Yamada K, et al. **Masui** 1997 Mar; 46(3):373–5 (Eng. Abstr.) **(Jpn)**

[Indication for spinal anesthesia for cesarean section in HELLP syndrome coagulopathy] Blasi A, et al. **Rev Esp Anestesiol Reanim** 1997 Feb;44(2):79–82 (Eng. Abstr.) **(Spa)**

[Reversible severe ventricular dysfunction in female patient with eclampsia and HELLP syndrome] Moreno Gómez R, et al. **Rev Esp Cardiol** 1996 Nov;49(11):858–60 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Clinical utility of strict diagnostic criteria for the HELLP (hemolysis, elevated liver enzymes, and low platelets) syndrome [see comments] Audibert F, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):460–4. Comment in: Am J Obstet Gynecol 1997 May;176(5):1120–1.

Thrombotic thrombocytopenic purpura and HELLP (hemolysis, elevated liver enzymes, and low platelets)

syndrome: differential diagnostic problems [letter; comment] Kaiser C, et al. **Am J Obstet Gynecol** 1996 Aug; 175(2):506–7. Comment on: Am J Obstet Gynecol 1995 Apr;172(4 Pt 1):1107–25; discussion 1125–7.

Complete versus partial HELLP (hemolysis, elevated liver enzymes, and low platelets) syndrome [letter; comment] Van Bogaert LJ. **Am J Obstet Gynecol** 1997 May; 176(5):1120–1. Comment on: Am J Obstet Gynecol 1996 Aug;175(2):460–4.

HELLP syndrome in a pregnant patient with a past history of splenectomy for idiopathic thrombocytopenic purpura. Case report. Yamamoto H, et al. **Arch Gynecol Obstet** 1997; 259(2):105–7

Preeclampsia and liver infarction in early pregnancy associated with the antiphospholipid syndrome. Alsulyman OM, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):644–6

[The diagnosis and management of pregnancies complicated by the HELLP syndrome] Porozhanova V. **Akush Ginekol (Sofiia)** 1996;35(3):25–8 (8 ref.) **(Bul)**

[HELLP syndrome: recurrence in 4 consecutive pregnancies] Beinder E, et al. **Geburtshilfe Frauenheilkd** 1996 Sep; 56(9):501–3 (Eng. Abstr.) **(Ger)**

[Severe HELLP syndrome with temporary kidney and lung failure] Ulrich S, et al. **Geburtshilfe Frauenheilkd** 1996 Aug; 56(8):443–6 (Eng. Abstr.) **(Ger)**

[Differential HELLP syndrome diagnosis] Faridi A, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun;200(3):88–95 (50 ref.) (Eng. Abstr.) **(Ger)**

[Clinical and chemical laboratory course of HELLP syndrome--a retrospective analysis] Schwerk C, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun;200(3):109–14 (Eng. Abstr.) **(Ger)**

[Acute HELLP syndrome with spontaneous liver rupture sub partu] Upleger F, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun;200(3):127–8 (Eng. Abstr.) **(Ger)**

[A case of HELLP syndrome complicated by acute renal failure and acute respiratory failure] Kaiser T, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):276–7 (Eng. Abstr.) **(Pol)**

[Difference between preeclampsia, HELLP syndrome and eclampsia, maternal evaluation] Vigil-de Gracia PE, et al. **Ginecol Obstet Mex** 1996 Aug;64:377–82 (Eng. Abstr.) **(Spa)**

[HELLP syndrome in the "Daniel A Carrion" National Hospital: report of cases] Inchiyanagui C, et al. **Rev Gastroenterol Peru** 1996 May–Aug;16(2):162–6 (21 ref.) (Eng. Abstr.) **(Spa)**

DRUG THERAPY

[Corticoids and HELLP syndrome. A new indicator? (letter)] Leclercq G, et al. **Presse Med** 1997 May 24;26(17):808–9 **(Fre)**

ENZYMOLOGY

Proteases and their inhibitors are indicative in gestational disease. Kolben M, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1–2):59–65

[Lactate dehydrogenase isoenzymes in patients with HELLP syndrome] Hamm W, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun;200(3):115–8 (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

[The perinatal outcome in adolescents with eclampsia and the HELLP syndrome] Porozhanova V, et al. **Akush Ginekol (Sofiia)** 1996;35(1–2):14–6 (Eng. Abstr.) **(Bul)**

[HELLP syndrome. Severe consequence of hypertensive disease induced by pregnancy] Rojas-Poceros G, et al. **Ginecol Obstet Mex** 1996 Dec;64:523–7 (Eng. Abstr.) **(Spa)**

GENETICS

Acute fatty liver of pregnancy, hemolysis, elevated liver enzymes, and low platelets syndrome, and long chain 3-hydroxyacyl-coenzyme A dehydrogenase deficiency [see comments] Treem WR, et al. **Am J Gastroenterol** 1996 Nov; 91(11):2293–300. Comment in: Am J Gastroenterol 1996 Nov;91(11):2262–4.

[Postpartum rupture of a kidney cyst in familial polycystic kidney degeneration and HELLP syndrome] Backe J, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun;200(3):122–6 (Eng. Abstr.) **(Ger)**

[HELLP syndrome and trisomy 18 in a multi-parity patient] Mueller MD, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun; 200(3):119–21 (Eng. Abstr.) **(Ger)**

[HELLP syndrome in the 21st week of pregnancy in mosaic trisomy 9] Reister F, et al. **Zentralbl Gynakol** 1996; 118(12):669–72 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Hepatic necrosis and haemorrhage in pregnant patients with antiphospholipid antibodies. Amant F, et al. **Lupus** 1997; 6(6):552–5

METABOLISM

Immunohistological study in cases of HELLP syndrome (hemolysis, elevated liver enzymes and low platelets) and acute fatty liver of pregnancy. Halim A, et al. **Gynecol Obstet Invest** 1996;41(2):106–12

Elevations of serum interleukin-12 concentrations in women with severe pre-eclampsia and HELLP syndrome. Dudley DJ, et al. **J Reprod Immunol** 1996 Aug;31(1–2):97–107

PATHOLOGY

Immunohistological study in cases of HELLP syndrome (hemolysis, elevated liver enzymes and low platelets) and acute fatty liver of pregnancy. Halim A, et al. **Gynecol Obstet Invest** 1996;41(2):106–12

PHYSIOPATHOLOGY

The role of labetalol and propofol in the management of HELLP syndrome--a case report. Chu YL, et al. **Acta Anaesthesiol Sin** 1996 Mar;34(1):43–6

Increased release of tumor necrosis factor-alpha and interleukin-6 in women with the syndrome of hemolysis, elevated liver enzymes, and low platelet count. Haeger M, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):695–701

Postoperative incision complications after cesarean section in patients with antepartum syndrome of hemolysis, elevated liver enzymes, and low platelets (HELLP): does delayed primary closure make a difference? Briggs R, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):893–6

Doppler velocimetry of hepatic blood flow in postpartum patients with HELLP syndrome (hemolysis, elevated liver enzymes, and low platelets) [letter; comment] Kurzel RB, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1677–8. Comment on: Am J Obstet Gynecol 1994 Aug;171(2):526–30.

HELLP syndrome after the improvement of coagulation and fibrinolysis parameters in severe preeclampsia [letter] Furuhashi M, et al. **Int J Gynaecol Obstet** 1996 Mar; 52(3):279–80

Postpartum recovery after severe pre-eclampsia and HELLP-syndrome. Makkonen N, et al. **J Perinat Med** 1996;24(6):641–9

Maternal and neonatal outcome of pregnancies complicated with maternal HELLP syndrome. Raval DS, et al. **J Perinatol** 1997 Jul–Aug;17(4):266–9

[Longitudinal study of 24-hour blood pressure behavior in pregnancy and puerperium in patients with normal pregnancy, pre-eclampsia and HELLP syndrome] Ruschitzka F, et al. **Z Geburtshilfe Neonatol** 1996 May–Jun; 200(3):100–3 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

[Hemolysis, elevated liver enzymes and low blood platelet count in pregnancy (HELLP syndrome): computerized tomography assessment of a case] Grisanti M, et al. **Radiol Med (Torino)** 1996 Dec;92(6):823–5 **(Ita)**

SURGERY

[Liver rupture in pregnancy: a life-threatening complication in the HELLP syndrome (letter; comment)] Bakker FC, et al. **Ned Tijdschr Geneeskd** 1997 Jan 25;141(4):215–6. Comment on: Ned Tijdschr Geneeskd 1996 Oct 26;140(43):2140–2. **(Dut)**

THERAPY

Plasma exchange in a patient with postpartum HELLP syndrome. Hamada S, et al. **J Obstet Gynaecol Res** 1996 Aug;22(4):371–4

ULTRASONOGRAPHY

Doppler velocimetry of hepatic blood flow in postpartum patients with HELLP syndrome (hemolysis, elevated liver enzymes, and low platelets) [letter; comment] Kurzel RB, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1677–8. Comment on: Am J Obstet Gynecol 1994 Aug;171(2):526–30.

[Ultrasound examination of the liver in HELLP syndrome] Christensen S, et al. **Radiologe** 1997 Feb;37(2):170–2 (Eng. Abstr.) **(Ger)**

HELMETS see **HEAD PROTECTIVE DEVICES**

HELMINTH ANTIBODIES see **ANTIBODIES, HELMINTH**

HELMINTH ANTIGENS see **ANTIGENS, HELMINTH**

HELMINTH DNA see **DNA, HELMINTH**

HELMINTH GENES see **GENES, HELMINTH**

HELMINTH PROTEINS

ANALYSIS

Two-dimensional gel electrophoresis of Caenorhabditis elegans homogenates and identification of protein spots by microsequencing. Bini L, et al. **Electrophoresis** 1997 Mar–Apr;18(3–4):557–62

Target cell lysis by CTL granule exocytosis is independent of ICE/Ced-3 family proteases. Sarin A, et al. **Immunity** 1997 Feb;6(2):209–15

Echinococcus granulosus in Spain: strain differentiation by SDS-PAGE of somatic and excretory/secretory proteins. Siles-Lucas M, et al. **J Helminthol** 1996 Sep;70(3):253–7

Comparative analysis of the distribution of bradykinin-, GYIRFamide- and neuropeptide F-like immunoreactivities in the monogenean, Diclidophora merlangi. Mair GR, et al. **Parasitology** 1997 May;114 (Pt 5):467–73

BIOSYNTHESIS

CED-4 induces chromatin condensation in Schizosaccharomyces pombe and is inhibited by direct physical association with CED-9. James C, et al. **Curr Biol** 1997 Apr 1;7(4):246–52

Hookworm: developmental biology of the infectious process. Hawdon JM, et al. **Curr Opin Genet Dev** 1996 Oct; 6(5):618–23 (33 ref.)

Genetic enhancers of sem-5 define components of the gonad-independent guidance mechanism controlling sex myoblast migration in Caenorhabditis elegans hermaphrodites. Chen EB, et al. **Dev Biol** 1997 Feb 1; 182(1):88–100

Caenorhabditis elegans HOM-C genes regulate the response of vulval precursor cells to inductive signal. Clandinin TR, et al. **Dev Biol** 1997 Feb 1;182(1):150–61

Genes required for GLP-1 asymmetry in the early Caenorhabditis elegans embryo. Crittenden SL, et al. **Dev Biol** 1997 Jan 1;181(1):36–46

GLD-1, a cytoplasmic protein essential for oocyte differentiation, shows stage- and sex-specific expression during Caenorhabditis elegans germline development. Jones AR, et al. **Dev Biol** 1996 Nov 25;180(1):165–83

Expression of the microfilarial sheath protein 2 (shp2) of the filarial parasites Litomosoides sigmodontis and Brugia malayi. Conraths FJ, et al. **Exp Parasitol** 1997 Mar; 85(3):241–8

Characterization of a Schistosoma mansoni cDNA encoding a B-like cyclophilin and its expression in Escherichia coli. Klinkert MQ, et al. **Mol Biochem Parasitol** 1995 Dec; 75(1):99–111

Tissue localization and stage-specific expression of the phospholipid hydroperoxide glutathione peroxidase of Schistosoma mansoni. Roche C, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):187–95

Expression of a 70-kDa heat-shock-related protein during transformation from free-living infective larvae to the parasitic stage in Strongyloides venezuelensis. Tsuji N, et al. **Parasitol Res** 1997;83(1):99–102

Identification and in situ and in vitro characterization of secreted proteins produced by plant-parasitic nematodes. Curtis RH. **Parasitology** 1996 Dec;113 (Pt 6):589–97

Cloning and expression of DiT33 from Dirofilaria immitis: a specific and early marker of heartworm infection. Hong XQ, et al. **Parasitology** 1996 Mar;112 (Pt 3):331–8

Growth and cuticular synthesis in Ascaris suum larvae during development from third to fourth stage in vitro. Fetterer RH. **Vet Parasitol** 1996 Oct 25;65(3–4):275–82

BLOOD

Circulating antigen levels in serum of cattle naturally infected with Schistosoma mattheei. De Bont J, et al. **Parasitology** 1996 Nov;113 (Pt 5):465–71

Experimental Schistosoma bovis infection in goats. Circulating antigen and antibody responses to egg and adult worm antigens during infection and following treatment with praziquantel. Johansen MV, et al. **Parasitology** 1996 Oct;113 (Pt 4):367–75

Detection of the circulating antigens CAA and CCA in a group of Dutch travellers with acute schistosomiasis. van Lieshout L, et al. **Trop Med Int Health** 1997 Jun;2(6):551–7

CHEMISTRY

Caenorhabditis elegans LIN-2A and mammalian neuronal CASK are prototypical members of a subfamily of MAGUKs (membrane-associated guanylate kinases) characterized by a common kinase-like domain and a guanylate kinase domain predicted to bind ATP [letter] Baines AJ. **Biochem J** 1996 Dec 1;320 (Pt 2):694–6

Assembly of nematode cuticle: role of hydrophobic interactions in CUT-2 cross-linking. Parise G, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):295–301

Identification of novel paired homeodomain protein related to C. elegans unc-4 as a potential downstream target of MASH1. Saito T, et al. **Dev Biol** 1996 Nov 25;180(1):143–55

Structural and functional characterization of the extracellular calcium-binding protein BM-40/secreted protein, acidic, rich in cysteine/osteonectin from the nematode Caenorhabditis elegans. Maurer P, et al. **Eur J Biochem** 1997 Aug 15;248(1):209–16

The Caenorhabditis elegans death protein Ced-4 contains a motif with similarity to the mammalian 'death effector domain'. Bauer MK, et al. **FEBS Lett** 1997 Feb 3; 402(2–3):256–8

Direct physical interaction between the Caenorhabditis elegans 'death proteins' CED-3 and CED-4. Irmler M, et al. **FEBS Lett** 1997 Apr 7;406(1–2):189–90

SKN-1 domain folding and basic region monomer stabilization upon DNA binding. Carroll AS, et al. **Genes Dev** 1997 Sep 1;11(17):2227–38

Haemonchus contortus glycoproteins contain N-linked oligosaccharides with novel highly fucosylated core structures. Haslam SM, et al. **J Biol Chem** 1996 Nov 29; 271(48):30561–70

Molecular identification of a Schistosoma mansoni tegumental protein with similarity to cytoplasmic dynein light chains. Hoffmann KF, et al. **J Biol Chem** 1996 Oct

18;271(42):26117–23

ASABF, a novel cysteine-rich antibacterial peptide isolated from the nematode Ascaris suum. Purification, primary structure, and molecular cloning of cDNA. Kato Y, et al. **J Biol Chem** 1996 Nov 29;271(48):30493–8

2.5 A resolution crystal structure of the motile major sperm protein (MSP) of Ascaris suum. Bullock TL, et al. **J Mol Biol** 1996 Oct 25;263(2):284–96

Structure and stability of an immunoglobulin superfamily domain from twitchin, a muscle protein of the nematode Caenorhabditis elegans. Fong S, et al. **J Mol Biol** 1996 Dec 6;264(3):624–39

New crystal forms of the motile major sperm protein (MSP) of Ascaris suum. Bullock TL, et al. **J Struct Biol** 1996 May-Jun;116(3):432–7

Camguk, Lin-2, and CASK: novel membrane-associated guanylate kinase homologs that also contain CaM kinase domains. Dimitratos SD, et al. **Mech Dev** 1997 Apr; 63(1):127–30

OvB20, an Onchocerca volvulus-cloned antigen selected by differential immunoscreening with vaccination serum in a cattle model of onchocerciasis. Abdel-Wahab N, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1–2):187–99

Repetitive peptide motifs in the cuticlin of Ascaris suum. Bisoffi M, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):55–64

Characterisation of the phosphorylcholine-containing N-linked oligosaccharides in the excretory-secretory 62 kDa glycoprotein of Acanthocheilonema viteae. Haslam SM, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):53–66

Carboxy-terminal sequence divergence and processing of the polyprotein antigen from Dirofilaria immitis. Poole CB, et al. **Mol Biochem Parasitol** 1996 Nov 12;82(1):51–65

Molecular and functional properties of cytochrome c from adult Ascaris suum muscle. Takamiya S, et al. **Mol Biochem Parasitol** 1996 Jul;79(1):61–70

Trichinella pseudospiralis secretes a protein related to the Trichinella spiralis 43-kDa glycoprotein. Vassilatis DK, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):25–31

The mouse rostral cerebellar malformation gene encodes an UNC-5-like protein. Ackerman SL, et al. **Nature** 1997 Apr 24;386(6627):838–42

Vertebrate homologues of C. elegans UNC-5 are candidate netrin receptors. Leonardo ED, et al. **Nature** 1997 Apr 24;386(6627):833–8

Structural characteristics of the Ascaris allergen, ABA-1. McGibbon AM, et al. **Parasite** 1995 Mar;2(1):41–8

Purification and characterization of lactate dehydrogenase isoenzymes 1 and 2 from Molinema dessetae (Nematoda:Filarioidea). Marchat L, et al. **Parasitol Res** 1996;82(8):672–80

Isolation and partial characterization of a fatty-acid-binding protein from Ascaris suum reproductive tissue. Timanova AM, et al. **Parasitol Res** 1997;83(5):518–21

Molecular forms of tegumental and muscle acetylcholinesterases of Schistosoma. Camacho M, et al. **Parasitology** 1996 Feb;112 (Pt 2):199–204

Skn-1: evidence for a bipartite recognition helix in DNA binding. Pal S, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5556–61

DRUG EFFECTS

Praziquantel has no direct effect on (Na(+)+K+)-ATPases and (Ca2(+)-Mg2+)ATPases of Schistosoma mansoni. Cunha VM, et al. **Life Sci** 1997;60(20):PL 289–94

GENETICS

Molecular cloning of a new unc-33-like cDNA from rat brain and its relation to paraneoplastic neurological syndromes. Quach TT, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):329–32

The cold shock domain protein LIN-28 controls developmental timing in C. elegans and is regulated by the lin-4 RNA. Moss EG, et al. **Cell** 1997 Mar 7; 88(5):637–46

Wnt signaling polarizes an early C. elegans blastomere to distinguish endoderm from mesoderm [see comments] Thorpe CJ, et al. **Cell** 1997 Aug 22;90(4):695–705. Comment in: Cell 1997 Aug 22;90(4):581–4.

Quantitative analysis of Caenorhabditis elegans sperm motility and how it is affected by mutants spe11 and unc54. Royal DC, et al. **Cell Motil Cytoskeleton** 1997;37(2):98–110

Transfer and expression of neutrophil inhibitory factor gene in endothelial and epithelial cells prevent neutrophil adhesion. Jaffe HA, et al. **Chest** 1997 Jun;111(6 Suppl):94S–95S

Caenorhabditis elegans CED-4 stimulates CED-3 processing and CED-3-induced apoptosis. Seshagiri S, et al. **Curr Biol** 1997 Jul 1;7(7):455–60

Novel gene families involved in neural pathfinding. Müller BK, et al. **Curr Opin Genet Dev** 1996 Aug;6(4):469–74 (61 ref.)

cec-1, a soma-specific chromobox-containing gene in C. elegans. Agostoni E, et al. **Dev Biol** 1996 Sep 15; 178(2):316–26

C. elegans cell migration gene mig-10 shares similarities with a family of SH2 domain proteins and acts cell nonautonomously in excretory canal development. Manser J, et al. **Dev Biol** 1997 Apr 1;184(1):150–64

Structure, function, and expression of SEL-1, a negative regulator of LIN-12 and GLP-1 in C. elegans. Grant B, et al. **Development** 1997 Feb;124(3):637–44

A C. elegans E/Daughterless bHLH protein marks neuronal but not striated muscle development. Krause M, et al. **Development** 1997 Jun;124(11):2179–89

A Ras-mediated signal transduction pathway is involved in the control of sex myoblast migration in Caenorhabditis elegans. Sundaram M, et al. **Development** 1996 Sep; 122(9):2823–33

The tra-3 sex determination gene of Caenorhabditis elegans encodes a member of the calpain regulatory protease family. Barnes TM, et al. **EMBO J** 1996 Sep 2; 15(17):4477–84

hch-1, a gene required for normal hatching and normal migration of a neuroblast in C. elegans, encodes a protein related to TOLLOID and BMP-1. Hishida R, et al. **EMBO J** 1996 Aug 15;15(16):4111–22

Conservation of the Caenorhabditis elegans cuticle collagen gene col-12 in Caenorhabditis briggsae. Gilleard JS, et al. **Gene** 1997 Jul 9;193(2):181–6

Conservation of function and expression of unc-119 from two Caenorhabditis species despite divergence of non-coding DNA. Maduro M, et al. **Gene** 1996 Dec 12; 183(1–2):77–85

The Caenorhabditis elegans gene CeAPN1 encodes a homolog of Escherichia coli and yeast apurinic/apyrimidinic endonuclease. Masson JY, et al. **Gene** 1996 Nov 14;179(2):291–3

Structure and expression of the gsa-1 gene encoding a G protein alpha(s) subunit in C. elegans. Park JH, et al. **Gene** 1997 Jul 31;194(2):183–90

cut-1-like genes of Ascaris lumbricoides. Timinouni M, et al. **Gene** 1997 Jul 1;193(1):81–7

Caenorhabditis elegans sex-determining protein FEM-2 is a protein phosphatase that promotes male development and interacts directly with FEM-3. Chin-Sang ID, et al. **Genes Dev** 1996 Sep 15;10(18):2314–25

A bulged lin-4/lin-14 RNA duplex is sufficient for Caenorhabditis elegans lin-14 temporal gradient formation. Ha I, et al. **Genes Dev** 1996 Dec 1;10(23):3041–50

Evolution of sex determination in caenorhabditis: unusually high divergence of tra-1 and its functional consequences. de Bono M, et al. **Genetics** 1996 Oct;144(2):587–95

Mechanism of activation of the Caenorhabditis elegans ras homologue let-60 by a novel, temperature-sensitive, gain-of-function mutation. Eisenmann DM, et al. **Genetics** 1997 Jun;146(2):553–65

glp-3 is required for mitosis and meiosis in the Caenorhabditis elegans germ line. Kadyk LC, et al. **Genetics** 1997 Jan; 145(1):111–21

Interspecies comparison reveals evolution of control regions in the nematode sex-determining gene tra-2. Kuwabara PE. **Genetics** 1996 Oct;144(2):597–607

cDNA cloning of a human homologue of the Caenorhabditis elegans cell fate-determining gene mab-21: expression, chromosomal localization and analysis of a highly polymorphic (CAG)n trinucleotide repeat. Margolis RL, et al. **Hum Mol Genet** 1996 May;5(5):607–16

Identification and molecular cloning of a 67-kilodalton protein in Schistosoma japonicum homologous to a family of actin-binding proteins. Kurtis JD, et al. **Infect Immun** 1997 Jan;65(1):344–7

A novel cDNA clone of Schistosoma japonicum encoding the 34,000 Dalton eggshell precursor protein. Sugiyama H, et al. **Int J Parasitol** 1997 Jul;27(7):811–7

A complementary DNA encoding an antigen from Trichinella spiralis muscle larvae and its analog from Trichinella T5 of bobcat origin: sequence, cloning and expressions. Yao C, et al. **Int J Parasitol** 1997 Apr; 27(4):425–30

Polycistronic expression and RNA-binding specificity of the C. elegans homologue of the spliceosome-associated protein SAP49. Tanaka Y, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):739–45

Cloning of a cysteine protease required for the molting of Onchocerca volvulus third stage larvae. Lustigman S, et al. **J Biol Chem** 1996 Nov 22;271(47):30181–9

A nematode gene required for sperm vesicle fusion. Achanzar WE, et al. **J Cell Sci** 1997 May;110 (Pt 9):1073–81

PTL-1, a microtubule-associated protein with tau-like repeats from the nematode Caenorhabditis elegans. Goedert M, et al. **J Cell Sci** 1996 Nov;109 (Pt 11):2661–72

Molecular cloning and expression of the Caenorhabditis elegans klp-3, an ortholog of C terminus motor kinesins Kar3 and ncd. Khan ML, et al. **J Mol Biol** 1997 Aug 1; 270(5):627–39

A murine neural-specific homolog corrects cholinergic defects in Caenorhabditis elegans unc-18 mutants. Gengyo-Ando K, et al. **J Neurosci** 1996 Nov 1; 16(21):6695–702

Activation of the mec-3 promoter in two classes of stereotyped lineages in Caenorhabditis elegans. Wang L, et al. **Mech Dev** 1996 May;56(1–2):165–81

Promoter sequences for the establishment of mec-3 expression in the nematode Caenorhabditis elegans. Wang L, et al. **Mech Dev** 1996 May;56(1–2):183–96

Ancylostoma caninum anticoagulant peptide: cloning by PCR and expression of soluble, active protein in E. coli. Cappello M, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):113–7

Molecular cloning of a developmentally regulated protein isolated from excretory-secretory products of larval Dirofilaria immitis. Frank GR, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):231–40

Identification and characterization of the Meloidogyne incognita col1 cuticle collagen gene. Ray C, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):121–4

Molecular cloning and characterisation of a developmentally regulated putative metallopeptidase present in a host protective extract of Haemonchus contortus. Redmond DL, et al. **Mol Biochem Parasitol** 1997 Mar;85(1):77–87

Molecular characterization and expression of two putative protective excretory secretory proteins of Haemonchus contortus. Schallig HD, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):203–13

Developmental expression of a 43-kDa secreted glycoprotein from Trichinella spiralis. Vassilatis DK, et al. **Mol Biochem Parasitol** 1996 Jun;78(1–2):13–23

Chitinase genes expressed by infective larvae of the filarial nematodes, Acanthocheilonema viteae and Onchocerca volvulus. Wu Y, et al. **Mol Biochem Parasitol** 1996 Jan; 75(2):207–19

Cloning and expression of a cDNA encoding a nonintegrin laminin-binding protein from Echinococcus granulosus with localization of the laminin-binding domain. Zhang L, et al. **Mol Biochem Parasitol** 1997 Aug;87(2):183–92

ADM-1, a protein with metalloprotease- and disintegrin-like domains, is expressed in syncytial organs, sperm, and sheath cells of sensory organs in Caenorhabditis elegans. Podbilewicz B. **Mol Biol Cell** 1996 Dec;7(12):1877–93

A retrotransposon of the non-long terminal repeat class from the human blood fluke Schistosoma mansoni. Similarities to the chicken-repeat-1-like elements of vertebrates. Drew AC, et al. **Mol Biol Evol** 1997 Jun;14(6):602–10

cis regulatory requirements for hypodermal cell-specific expression of the Caenorhabditis elegans cuticle collagen gene dpy-7. Gilleard JS, et al. **Mol Cell Biol** 1997 Apr; 17(4):2301–11

Modulation of expression at the level of splicing of cut-1 RNA in the infective second-stage juvenile of the plant parasitic nematode Meloidogyne artiellia. De Giorgi C, et al. **Mol Gen Genet** 1997 Feb 20;253(5):589–98

Hox genes misled by local environments [letter; comment] Schnabel R, et al. **Nature** 1997 Feb 13;385(6617):588–9. Comment on: Nature 1996 Jul 25;382(6589):353–6.

Expression, purification and characterization of recombinant C. Elegans UNC-18. Ogawa H, et al. **Neurochem Int** 1996 Nov;29(5):553–63

Membrane topology of the C. elegans SEL-12 presenilin. Li X, et al. **Neuron** 1996 Nov;17(5):1015–21

EGF receptor binding and transformation by v-cbl is ablated by the introduction of a loss-of-function mutation from the Caenorhabditis elegans sli-1 gene. Thien CB, et al. **Oncogene** 1997 May 8;14(18):2239–49

Cloning of peroxiredoxin, a novel antioxidant enzyme, from the helminth parasite Fasciola hepatica. McGonigle S, et al. **Parasitology** 1997 Jul;115 (Pt 1):101–4

Characterization of two cDNAs encoding cysteine proteinases from the soybean cyst nematode Heterodera glycines. Urwin PE, et al. **Parasitology** 1997 Jun;114 (Pt 6):605–13

Assessment of normal and mutant human presenilin function in Caenorhabditis elegans. Levitan D, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14940–4

A genetic selection for Caenorhabditis elegans synaptic transmission mutants. Miller KG, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12593–8

Genetic control of cellular suicide. Yuan J. **Reprod Toxicol** 1997 Mar-Jun;11(2–3):377–84 (73 ref.)

Structural and functional conservation of the Caenorhabditis elegans timing gene clk-1 [see comments] Ewbank JJ, et al. **Science** 1997 Feb 14;275(5302):980–3. Comment in: Science 1997 Feb 14;275(5302):943–4.

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S-transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691–4

IMMUNOLOGY

Antibody responses of patients with cystic hydatid disease to recombinant myophilin of Echinococcus granulosus. Martin RM, et al. **Acta Trop** 1996 Aug;61(4):307–14

Schistosoma mansoni excretory circulating cathodic antigen shares Lewis-x epitopes with a human granulocyte surface antigen and evokes host antibodies mediating complement-dependent lysis of granulocytes. van Dam GJ, et al. **Blood** 1996 Dec 1;88(11):4246–51

Differential antigen recognition by T cell populations from strains of mice developing polar forms of granulomatous inflammation in response to eggs of Schistosoma mansoni. Hernandez HJ, et al. **Eur J Immunol** 1997 Mar;27(3):666–70

The novel cuticular collagen Ovcol-1 of Onchocerca volvulus is preferentially recognized by immunoglobulin G3 from putatively immune individuals. Stewart GR, et al. **Infect Immun** 1997 Jan;65(1):164–70

Production of both IFN-gamma and IL-5 by Onchocerca volvulus S1 antigen-specific CD4+ T cells from putatively immune individuals. Doetze A, et al. **Int Immunol** 1997 May;9(5):721–9

Differential regulation of antigen-specific IgG4 and IgE antibodies in response to recombinant filarial proteins. Garraud O, et al. **Int Immunol** 1996 Dec;8(12):1841–8

Low-molecular-weight protein ligands from Onchocerca volvulus preferentially stimulate the human gammadelta

T cell Vdelta1+ subset. Munk ME, et al. **J Infect Dis** 1996 Dec;174(6):1309–15

A recombinant protein from Schistosoma mansoni useful for the detection of S. mansoni and Schistosoma haematobium antibodies. Hancock K, et al. **J Parasitol** 1997 Aug; 83(4):612–8

Mapping of conformational B cell epitopes within alpha-helical coiled coil proteins. Cooper JA, et al. **Mol Immunol** 1997 Apr;34(6):433–40

Glutathione-binding proteins of Setaria digitata: antibody responses in human infected with Wuchereria bancrofti. Bal M, et al. **Parasite Immunol** 1996 Sep;18(9):473–7

Antigenic polypeptides of Echinococcus granulosus oncospheres and definition of protective molecules. Heath DD, et al. **Parasite Immunol** 1996 Jul;18(7):347–57

Molecular approaches to vaccinating against hookworm disease. Hotez PJ, et al. **Pediatr Res** 1996 Oct;40(4):515–21 (82 ref.)

Comparison of the immune response elicited by a free peptide and a lipopeptide construct. Ferru I, et al. **Pept Res** 1996 May-Jun;9(3):136–43

Induction of cytotoxic T-cell activity by the protective antigen of Schistosoma mansoni Sm28GST or its derived C-terminal lipopeptide. Pancré V, et al. **Scand J Immunol** 1996 Nov;44(5):485–92

pOVEX vector: prokaryotic expression and purification of onchocerciasis vaccine candidate antigens as fusion proteins with the 24 kD Onchocerca volvulus glutathione S-transferase. Liebau E, et al. **Trop Med Int Health** 1997 Jul;2(7):691–4

ISOLATION & PURIFICATION

Structural and functional analysis of a glutathione S-transferase from Ascaris suum. Liebau E, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):659–66

Purification and characterization of three larval excretory-secretory proteins of Dirofilaria immitis. Frank GR, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):221–9

Dimethylaminoethanol is a major component of the Litomosoides carinii microfilarial sheath. Hintz M, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1-2):325–8

Identification and characterization of Schistosoma mansoni p17.7, a cyclophilin. Kiang D, et al. **Mol Biochem Parasitol** 1996 Feb-Mar;76(1-2):73–82

The Schistosoma mansoni epidermal growth factor receptor homologue, SER, has tyrosine kinase activity and is localized in adult muscle. Ramachandran H, et al. **Mol Biochem Parasitol** 1996 Dec 2;83(1):1–10

Antigenic polypeptides of Echinococcus granulosus oncospheres and definition of protective molecules. Heath DD, et al. **Parasite Immunol** 1996 Jul;18(7):347–57

Ultrastructure of the surface structures and electron immunogold labeling of peptide immunoreactivity in the nervous system of Pseudothoracocotyla indica (Polyopisthocotylea: Monogenea). Brennan GP, et al. **Parasitol Res** 1996;82(7):638–46

Expression, purification, and characterization of the recombinant NAD-malic enzyme from Ascaris suum. Chooback L, et al. **Protein Expr Purif** 1997 Jun;10(1):51–4

METABOLISM

Caenorhabditis elegans LIN-2A and mammalian neuronal CASK are prototypical members of a subfamily of MAGUKs (membrane-associated guanylate kinases) characterized by a common kinase-like domain and a guanylate kinase domain predicted to bind ATP [letter] Baines AJ. **Biochem J** 1996 Dec 1;320 (Pt 2):694–6

Assembly of nematode cuticle: role of hydrophobic interactions in CUT-2 cross-linking. Parise G, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):295–301

Evidence for increased hydroxylation of pyrrolidone amino acid residues in the cuticle of mature Onchocerca volvulus. Sakwe AM, et al. **Biochim Biophys Acta** 1997 May 24; 1360(3):196–202

Multiple in vivo phosphorylated tyrosine phosphatase SHP-2 engages binding to Grb2 via tyrosine 584. Vogel W, et al. **Cell Growth Differ** 1996 Dec;7(12):1589–97

Mammalian homologues of C. elegans PAR-1 are asymmetrically localized in epithelial cells and may influence their polarity. Böhm H, et al. **Curr Biol** 1997 Aug 1;7(8):603–6

PAR-2 is asymmetrically distributed and promotes association of P granules and PAR-1 with the cortex in C. elegans embryos. Boyd L, et al. **Development** 1996 Oct; 122(10):3075–84

Neuronal cell migration in C. elegans: regulation of Hox gene expression and cell position. Harris J, et al. **Development** 1996 Oct;122(10):3117–31

lin-12 and glp-1 are required zygotically for early embryonic cellular interactions and are regulated by maternal GLP-1 signaling in Caenorhabditis elegans. Moskowitz IP, et al. **Development** 1996 Dec;122(12):4105–17

par-6, a gene involved in the establishment of asymmetry in early C. elegans embryos, mediates the asymmetric localization of PAR-3. Watts JL, et al. **Development** 1996 Oct;122(10):3133–40

Structural and functional characterization of the extracellular calcium-binding protein BM-40/secreted protein, acidic, rich in cysteine/osteonectin from the nematode Caenorhabditis elegans. Maurer P, et al. **Eur J Biochem** 1997 Aug 15;248(1):209–16

Strongyloides venezuelensis: adhesion of adult worms to culture vessels by orally secreted mucosubstances. Maruyama H, et al. **Exp Parasitol** 1997 Jan;85(1):10–5

SKN-1 domain folding and basic region monomer stabilization upon DNA binding. Carroll AS, et al. **Genes Dev** 1997 Sep 1;11(17):2227–38

Caenorhabditis elegans sex-determining protein FEM-2 is a protein phosphatase that promotes male development and interacts directly with FEM-3. Chin-Sang ID, et al. **Genes Dev** 1996 Sep 15;10(18):2314–25

A bulged lin-4/lin-14 RNA duplex is sufficient for Caenorhabditis elegans lin-14 temporal gradient formation. Ha I, et al. **Genes Dev** 1996 Dec 1;10(23):3041–50

Polycistronic expression and RNA-binding specificity of the C. elegans homologue of the spliceosome-associated protein SAP49. Tanaka Y, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):739–45

Novel Ca2+-binding protein (CAPS) related to UNC-31 required for Ca2+-activated exocytosis. Ann K, et al. **J Biol Chem** 1997 Aug 8;272(32):19637–40

The Caenorhabditis elegans p21-activated kinase (CePAK) colocalizes with CeRac1 and CDC42Ce at hypodermal cell boundaries during embryo elongation. Chen W, et al. **J Biol Chem** 1996 Oct 18;271(42):26362–8

Specific cleavage of alpha-fodrin during Fas- and tumor necrosis factor-induced apoptosis is mediated by an interleukin-1beta-converting enzyme/Ced-3 protease distinct from the poly(ADP-ribose) polymerase protease. Cryns VL, et al. **J Biol Chem** 1996 Dec 6;271(49):31277–82

Phosphatidylserine externalization during CD95-induced apoptosis of cells and cytoplasts requires ICE/CED-3 protease activity. Martin SJ, et al. **J Biol Chem** 1996 Nov 15;271(46):28753–6

Physical and functional interactions of Doc2 and Munc13 in Ca2+-dependent exocytotic machinery. Orita S, et al. **J Biol Chem** 1997 Jun 27;272(26):16081–4

c-Jun NH2-terminal kinase-mediated activation of interleukin-1beta converting enzyme/CED-3-like protease during anticancer drug-induced apoptosis. Seimiya H, et al. **J Biol Chem** 1997 Feb 14;272(7):4631–6

The Ced-3/interleukin 1beta converting enzyme-like homolog Mch6 and the lamin-cleaving enzyme Mch2alpha are substrates for the apoptotic mediator CPP32. Srinivasula SM, et al. **J Biol Chem** 1996 Oct 25; 271(43):27099–106

Interaction and regulation of the Caenorhabditis elegans death protease CED-3 by CED-4 and CED-9. Wu D, et al. **J Biol Chem** 1997 Aug 22;272(34):21449–54

Identification and reconstruction of the binding site within alphaMbeta2 for a specific and high affinity ligand, NIF. Zhang L, et al. **J Biol Chem** 1997 Jul 11;272(28):17558–64

Proteolytic activation of protein kinase C delta by an ICE/CED 3-like protease induces characteristics of apoptosis. Ghayur T, et al. **J Exp Med** 1996 Dec 1; 184(6):2399–404

Bcl-2 expression in neural cells blocks activation of ICE/CED-3 family proteases during apoptosis. Srinivasan A, et al. **J Neurosci** 1996 Sep 15;16(18):5654–60

Metabolism of AF1 (KNEFIRF-NH2) in the nematode, Ascaris suum, by aminopeptidase, endopeptidase and deamidase enzymes. Sajid M, et al. **Mol Biochem Parasitol** 1996 Jan;75(2):159–68

Positive and negative tissue-specific signaling by a nematode epidermal growth factor receptor. Lesa GM, et al. **Mol Biol Cell** 1997 May;8(5):779–93

Actin and major sperm protein in spermatids and spermatozoa of the parasitic nematode Heligmosomoides polygyrus. Mansir A, et al. **Mol Reprod Dev** 1996 Nov; 45(3):332–41

Role of CED-4 in the activation of CED-3 [letter] [see comments] Chinnaiyan AM, et al. **Nature** 1997 Aug 21; 388(6644):728–9. Comment in: Nature 1997 Aug 21;388(6644):714–5.

Double identity for proteins of the Bcl-2 family. Reed JC. **Nature** 1997 Jun 19;387(6635):773–6 (40 ref.)

Interaction between the C. elegans cell-death regulators CED-9 and CED-4. Spector MS, et al. **Nature** 1997 Feb 13;385(6617):653–6

The synaptic protein UNC-18 is phosphorylated by protein kinase C. Sassa T, et al. **Neurochem Int** 1996 Nov; 29(5):543–52

A serine proteinase in the penetration glands of the hexacanths of Hymenolepis diminuta (Cestoda, Cyclophyllidea). Moczon T. **Parasitol Res** 1996;82(1):67–71

A serine proteinase in the penetration glands of the cercariae of Plagiorchis elegans (Trematoda, Plagiorchiidae). Moczon T. **Parasitol Res** 1996;82(1):72–6

Onchocerca retinol- and ivermectin-binding protein activity. Lal PG, et al. **Parasitology** 1996 Feb;112 (Pt 2):221–5

Variation in the nature of attachment of phosphorylcholine to excretory-secretory products of adult Brugia pahangi. Nor ZM, et al. **Parasitology** 1997 Mar;114 (Pt 3):257–62

A family of fibrinogen-related proteins that precipitates parasite-derived molecules is produced by an invertebrate after infection. Adema CM, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8691–6

Skn-1: evidence for a bipartite recognition helix in DNA binding. Pal S, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5556–61

Interaction of CED-4 with CED-3 and CED-9: a molecular framework for cell death [see comments] Chinnaiyan AM, et al. **Science** 1997 Feb 21;275(5303):1122–6. Comment in: Science 1997 Feb 21;275(5303):1081–2.

Sex-specific assembly of a dosage compensation complex on the nematode X chromosome [see comments] Chuang PT, et al. **Science** 1996 Dec 6;274(5293):1736–9. Comment in: Science 1996 Dec 6;274(5293):1633–4.

Promiscuous chromosomal proteins: complexes about sex [comment] Kuroda MI, et al. **Science** 1996 Dec 6; 274(5293):1633–4. Comment on: Science 1996 Dec 6;274(5293):1732–6. Comment on: Science 1996 Dec 6;274(5293):1736–9.

Interaction and regulation of subcellular localization of CED-4 by CED-9 [see comments] Wu D, et al. **Science** 1997 Feb 21;275(5303):1126–9. Comment in: Science 1997 Feb 21;275(5303):1081–2.

PHARMACOLOGY

A peptide derived from neutrophil inhibitory factor (NIF) blocks neutrophil adherence to endothelial cells. Madden K, et al. **Inflamm Res** 1997 Jun;46(6):216–23

Polymorphonuclear leucocyte (PMN) inhibitory factor prevents PMN-dependent endothelial cell injury by an anti-adhesive mechanism. Ohno S, et al. **J Cell Physiol** 1997 May;171(2):212–6

Differences in cytokine responses to Onchocerca volvulus extract and recombinant Ov33 and OvLJ-1 proteins in exposed subjects with various parasitologic and clinical states. Brattig N, et al. **J Infect Dis** 1997 Sep;176(3):838–42

Secretion of an anti-inflammatory, immunomodulatory factor by Schistosomulae of Schistosoma mansoni. Ramaswamy K, et al. **J Inflamm** 1995-96;46(1):13–22

Ancylostoma caninum anticoagulant peptide: cloning by PCR and expression of soluble, active protein in E. coli. Cappello M, et al. **Mol Biochem Parasitol** 1996 Sep; 80(1):113–7

Neuroprotective effect of recombinant neutrophil inhibitory factor in transient focal cerebral ischaemia in the rat. Mackay KB, et al. **Neurodegeneration** 1996 Dec;5(4):319–23

Attenuation of the inflammatory response in an animal colitis model by neutrophil inhibitory factor, a novel beta 2-integrin antagonist. Meenan J, et al. **Scand J Gastroenterol** 1996 Aug;31(8):786–91

PHYSIOLOGY

Mammalian Unc-13 homologues as possible regulators of neurotransmitter release. Betz A, et al. **Biochem Soc Trans** 1996 Aug;24(3):661–6 (18 ref.)

Baculovirus P35 inhibits the glucocorticoid-mediated pathway of cell death. Robertson NM, et al. **Cancer Res** 1997 Jan 1;57(1):43–7

MEX-3 is a KH domain protein that regulates blastomere identity in early C. elegans embryos. Draper BW, et al. **Cell** 1996 Oct 18;87(2):205–16

Spatial and temporal controls target pal-1 blastomere-specification activity to a single blastomere lineage in C. elegans embryos. Hunter CP, et al. **Cell** 1996 Oct 18;87(2):217–26

CED-4--the third horseman of apoptosis [comment] Vaux DL. **Cell** 1997 Aug 8;90(3):389–90 (17 ref.). Comment on: Cell 1997 Aug 8;90(3):405–13.

SDC-3 coordinates the assembly of a dosage compensation complex on the nematode X chromosome. Davis TL, et al. **Development** 1997 Mar;124(5):1019–31

The Caenorhabditis elegans LIN-26 protein is required to specify and/or maintain all non-neuronal ectodermal cell fates. Labouesse M, et al. **Development** 1996 Sep; 122(9):2579–88

The Groucho-like transcription factor UNC-37 functions with the neural specificity gene unc-4 to govern motor neuron identity in C. elegans. Pflugrad A, et al. **Development** 1997 May;124(9):1699–709

ELT-1, a GATA-like transcription factor, is required for epidermal cell fates in Caenorhabditis elegans embryos. Page BD, et al. **Genes Dev** 1997 Jul 1;11(13):1651–61

Regionalisation along the anteroposterior axis of the freshwater planarian Dugesia(Girardia)tigrina by TCEN49 protein. Vispo M, et al. **Int J Dev Biol** 1996;Suppl 1:209S–210S

Inhibition of Ced-3/ICE-related proteases does not prevent cell death induced by oncogenes, DNA damage, or the Bcl-2 homologue Bak. McCarthy NJ, et al. **J Cell Biol** 1997 Jan 13;136(1):215–27

Ras is required for a limited number of cell fates and not for general proliferation in Caenorhabditis elegans. Yochem J, et al. **Mol Cell Biol** 1997 May;17(5):2716–22

Apoptosis. CED-4 is a stranger no more [news; comment] Hengartner MO. **Nature** 1997 Aug 21;388(6644):714–5. Comment on: Nature 1997 Aug 21;388(6644):728–9.

Chemosensory neurons function in parallel to mediate a pheromone response in C. elegans. Schackwitz WS, et al. **Neuron** 1996 Oct;17(4):719–28

DPY-26, a link between dosage compensation and meiotic chromosome segregation in the nematode [see comments] Lieb JD, et al. **Science** 1996 Dec 6;274(5293):1732–6. Comment in: Science 1996 Dec 6;274(5293):1633–4.

Control of C. elegans larval development by neuronal expression of a TGF-beta homolog. Ren P, et al. **Science** 1996 Nov 22;274(5291):1389–91

HELMINTH RNA see **RNA, HELMINTH**

HELMINTH STRUCTURAL GENES see **GENES,**

STRUCTURAL, HELMINTH

HELMINTHIASIS

see related
ANTHELMINTICS

Feed the children, not the parasites [letter; comment] Hendricks M, et al. **S Afr Med J** 1996 Nov;86(11):1430–2 . Comment on: S Afr Med J 1996 Jun;86(6):647–9.

BLOOD

Serum retinol concentrations and Schistosoma mansoni, intestinal helminths, and malarial parasitemia: a cross-sectional study in Kenyan preschool and primary school children. Friis H, et al. **Am J Clin Nutr** 1997 Sep; 66(3):665–71

[Blood eosinophilia and immunoglobulin E: the characteristics of their regulation in helminthiases and allergic diseases (editorial)] Ozeretskovskaia NN. **Med Parazitol (Mosk)** 1997 Apr–Jun;(2):3–9 (96 ref.) (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Clinical improvement of asthma after anthelminthic treatment in a tropical situation. Lynch NR, et al. **Am J Respir Crit Care Med** 1997 Jul;156(1):50–4

Multiple infection with Plasmodium and helminths in communities of low and relatively high socio-economic status. Tshikuka JG, et al. **Ann Trop Med Parasitol** 1996 Jun;90(3):277–93

Mees' lines in a patient with multiple parasitic infections. Hepburn MJ, et al. **Cutis** 1997 Jun;59(6):321–3

Intestinal helminthiasis, nutritional status, and their relationship; a cross-sectional study in urban slum school children in Indonesia. Hadju V, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):719–29

DIAGNOSIS

[Intestinal helminthiasis--general practice problem of the gastroenterologist] Volkheimer G. **Z Gastroenterol** 1996 Sep;34(9):534–41 (2 ref.) (Eng. Abstr.) **(Ger)**

DRUG THERAPY

A comparative trial of a single-dose ivermectin versus three days of albendazole for treatment of Strongyloides stercoralis and other soil-transmitted helminth infections in children. Marti H, et al. **Am J Trop Med Hyg** 1996 Nov; 55(5):477–81

Anthelmintics. A comparative review of their clinical pharmacology. de Silva N, et al. **Drugs** 1997 May; 53(5):769–88 (241 ref.)

Effects of albendazole on growth of primary school children and the prevalence and intensity of soil-transmitted helminths in Sierra Leone [letter] Koroma MM, et al. **J Trop Pediatr** 1996 Dec;42(6):371–2

Efficacy and safety of mebendazole in children with worm infestation. Rafi S, et al. **JPMA J Pak Med Assoc** 1997 May;47(5):140–1

Effect of intestinal helminthiasis on school attendance by early primary schoolchildren. Raj SM, et al. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr;91(2):131–2

EPIDEMIOLOGY

The microsimulation approach to epidemiologic modeling of helminthic infections, with special reference to schistosomiasis. Habbema JD, et al. **Am J Trop Med Hyg** 1996 Nov;55(5 Suppl):165–9 (13 ref.)

Prevalence of infection, mean worm burden and degree of worm aggregation as determinants of prevalence of disease due to intestinal helminths. José MV, et al. **Arch Med Res** 1997 Spring;28(1):121–7

Emerging and reemerging helminthiases and the public health of China. Hotez PJ, et al. **Emerg Infect Dis** 1997 Jul–Sep; 3(3):303–10 (48 ref.)

Intestinal parasites among food-handlers in Qualyobia Governorate, with reference to the pathogenic parasite blastocystis hominis. Sadek Y, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):471–8

Current views on geographic distribution and modes of infection of neurohelminthic diseases. Nishimura K, et al. **J Neurol Sci** 1997 Jan;145(1):5–14 (95 ref.)

Intestinal geohelminthiasis in the developing world [published erratum appears in Natl Med J India 1997 May–Jun;10(3):153] Ananthakrishnan S, et al. **Natl Med J India** 1997 Mar–Apr;10(2):67–71 (74 ref.)

Prevalence of intestinal parasitic infection among children in two villages in Lao PDR. Kobayashi J, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):562–5

Intestinal helminths of the red fox (Vulpes vulpes L.) in Galicia (Northwest Spain). Alvarez MF, et al. **Wiad Parazytol** 1995;41(4):429–42

[Profile of intestinal helminthiases in school aged children in the city of Abidjan] Menan EI, et al. **Bull Soc Pathol Exot** 1997;90(1):51–4 (Eng. Abstr.) **(Fre)**

[Protozoan infections and intestinal helminthiasis among the population of a village in the northern Sudan savannah area of Mali (West Africa)] Dolo A, et al. **Parassitologia** 1996 Dec;38(3):585–9 (Eng. Abstr.) **(Fre)**

[The use of Aidichie's model for the exact determination of the level of intestinal helminthiasis morbidity during a single examination of the population by means of a direct smear] Bespiatov VF. **Med Parazitol (Mosk)** 1996 Apr–Jun; (2):57–8 **(Rus)**

[Helminthiasis morbidity in an organized pediatric population in one of the regions of the Far North] Khodakova VI, et al. **Med Parazitol (Mosk)** 1996 Oct–Dec;(4):31–3 (Eng. Abstr.) **(Rus)**

ETIOLOGY

[Influence of socioeconomic conditions on the occurrence of intestinal helminthiases. Study of 1001 students in Abidjan (Ivory Coast)] Menan EI, et al. **Sante** 1997 May–Jun;7(3):205–9 (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

The basis of IgE responses to specific antigenic determinants in helminthiasis. Lobos E. **Chem Immunol** 1997;66:1–25 (126 ref.)

Worm kinetics and serum IgE in hooded lister rats infected with the acanthocephalan Moniliformis moniliformis and the nematode Nippostrongylus brasiliensis. Hindsbo O, et al. **Int J Parasitol** 1996 Nov;26(11):1287–94

Is the induction of apoptosis the mechanism of the protective effects of TNF alpha in helminth infection? Garside P, et al. **Parasite Immunol** 1996 Mar;18(3):111–3 (30 ref.)

METABOLISM

Effect of intestinal helminthiasis on intestinal permeability of early primary schoolchildren. Raj SM, et al. **Trans R Soc Trop Med Hyg** 1996 Nov–Dec;90(6):666–9

PARASITOLOGY

Critical resources that influence habitat selection decisions by gastrointestinal helminth parasites. Sukhdeo MV, et al. **Int J Parasitol** 1996 May;26(5):483–98 (145 ref.)

[Epidemiology of certain endemic parasitic diseases in the town of Guadalupe (Republic of Sao Tome and Principe) I. Schistosomiasis intercalatum and intestinal worms] Ripert C, et al. **Bull Soc Pathol Exot** 1996;89(4):252–8 (Eng. Abstr.) **(Fre)**

[The heart and parasitic diseases] Mafart B, et al. **Med Trop (Mars)** 1996;56(3 Suppl):40–4 (41 ref.) **(Fre)**

PATHOLOGY

[Morphophysiological and reproductive changes in the water vole (Arvicola terretris L.) caused by helminth infections] Galaktionov IuK, et al. **Dokl Akad Nauk** 1996 Jul; 349(2):272–4 **(Rus)**

PHYSIOPATHOLOGY

Relationships between soil-transmitted helminthiases and growth in urban slum schoolchildren in Ujung Pandang, Indonesia. Hadju V, et al. **Int J Food Sci Nutr** 1997 Mar; 48(2):85–93

Do haematophagous parasites secrete SOD and promote blood flow? Pritchard DI. **Int J Parasitol** 1996 Nov; 26(11):1339–40

[Morphophysiological and reproductive changes in the water vole (Arvicola terretris L.) caused by helminth infections] Galaktionov IuK, et al. **Dokl Akad Nauk** 1996 Jul; 349(2):272–4 **(Rus)**

PREVENTION & CONTROL

Routine use of mebendazole in pregnancy. de Silva NR, et al. **Ceylon Med J** 1996 Sep;41(3):99–101

Perspective: prospects for development of vaccines against human helminth infections [published erratum appears in J Infect Dis 1997 Mar;175(3):742] McCarthy JS, et al. **J Infect Dis** 1996 Dec;174(6):1384–90 (89 ref.)

Feed the children, not the parasites—an essential part of primary health care in South Africa [letter; comment] Walker AR, et al. **S Afr Med J** 1997 Feb;87(2):176–8. Comment on: S Afr Med J 1996 Jun;86(6):647–9.

Intestinal parasitic infections [news] **World Health Forum** 1996;17(2):210–11

[The prevention of helminthiases among the troops and the ways to optimize it] Nikitin AF, et al. **Voen Med Zh** 1996 Aug;317(8):32–5 **(Rus)**

VETERINARY

Naphthalophos combinations with benzimidazoles or levamisole as effective anthelmintics for sheep. Cooper NA, et al. **Aust Vet J** 1996 Sep;74(3):221–4

Parasites of the recently established round goby (Neogobium melanostomus) and tubenose goby (Proterorhinus marmoratus) (Cottidae) from the St. Clair River and Lake St. Clair, Michigan, USA. Pronin NM, et al. **Folia Parasitol (Praha)** 1997;44(1):1–6

Endoparasitic helminths of the European eel, Anguilla anguilla, from four disconnected meanders from the rivers Leie and Scheldt in western Flanders, Belgium. Schabuss M, et al. **Folia Parasitol (Praha)** 1997;44(1):12–8

Novel approaches to the control of helminth parasites of livestock. Proceedings of an international conference. Armidale, New South Wales, 18–21 April 1995. **Int J Parasitol** 1996 Aug–Sep;26(8–9):797–1007

Helminth infracommunities in Litoria genimaculata (Amphibia:Anura) from Birthday Creek, an upland rainforest stream in northern Queensland, Australia. Barton DP, et al. **Int J Parasitol** 1996 Dec;26(12):1381–5

Parasites of wild houbara bustards in the United Arab Emirates. Jones A, et al. **J Helminthol** 1996 Mar;70(1):21–5

Colonization and establishment of Pomphorhynchus laevis (Acanthocephala) in an isolated English river. Kennedy CR. **J Helminthol** 1996 Mar;70(1):27–31

Prevalence and seasonal changes in the gastro-intestinal helminths of Nigerian goats. Nwosu CO, et al. **J Helminthol** 1996 Dec;70(4):329–33

A helminthological survey of wild red foxes (Vulpes vulpes) from the metropolitan area of Copenhagen. Willingham AL, et al. **J Helminthol** 1996 Sep;70(3):259–63

Intestinal parasitism—protozoa and helminths—in primates at the Barcelona Zoo. Soledad Gómez M, et al. **J Med Primatol** 1996 Dec;25(6):419–23

Sphaerechinorhynchus ophiograndis n. sp. (Acanthocephala:Plagiorhynchidae:Sphaerechinor hynchinae), described from the intestine of a king cobra, Ophiophagus hannah. Bolette DP. **J Parasitol** 1997 Apr; 83(2):272–5

First record of Pachysentis canicola (Acanthocephala:Oligacanthorhynchida) and the occurrence of Mesocestoides sp. tetrathyridia (Cestoidea:Cyclophyllidea) in the western diamondback rattlesnake, Crotalus atrox (Serpentes:Viperidae). Bolette DP. **J Parasitol** 1997 Aug;83(4):751–2

Helminths of Anolis acutus (Sauria: Polychrotidae) from St. Croix, U.S. Virgin Islands. Goldberg SR, et al. **J Parasitol** 1997 Jun;83(3):530–1

Helminths from three treefrogs Hyla arenicolor, Hyla wrightorum, and Pseudacris triseriata (Hylidae) from Arizona. Goldberg SR, et al. **J Parasitol** 1996 Oct; 82(5):833–5

Intestinal helminths of river otters (Lutra canadensis) from the Pacific northwest. Hoberg EP, et al. **J Parasitol** 1997 Feb;83(1):105–10

Evolutionary constraints on population structure: the parasites of Fundulus zebrinus (Pisces:Cyprinodontidae) in the South Platte River of Nebraska. Janovy J Jr, et al. **J Parasitol** 1997 Aug;83(4):584–92

Gastrointestinal helminths in the river otter (Lutra canadensis) in Tennessee. Kollars TM Jr, et al. **J Parasitol** 1997 Feb;83(1):158–60

Koronacantha pectinaria n. comb. (Acanthocephala: Illiosentidae) from Microlepidotus brevipinnis (Haemulidae) and redescription of Tegorhynchus brevis. Monks S, et al. **J Parasitol** 1997 Jun;83(3):485–94

Koronacantha mexicana n. gen., n. sp. (Acanthocephala: Illiosentidae) from marine fishes in Chamela Bay, Jalisco, Mexico. Monks S, et al. **J Parasitol** 1996 Oct;82(5):788–92

Parasites of the deepwater sculpin, Myoxocephalus thompsoni (Cottidae), from Lake Michigan and Lake Huron. Muzzall PM, et al. **J Parasitol** 1997 Feb;83(1):160–2

Comparison of Leptorhynchoides thecatus (Acanthocephala) recruitment into green sunfish and largemouth bass populations. Olson PD, et al. **J Parasitol** 1996 Oct; 82(5):702–6

Acanthocephala of the bald eagle (Haliaeetus leucocephalus) in North America. Richardson DJ, et al. **J Parasitol** 1997 Jun;83(3):540–1

Copulation and sexual congress of Leptorhynchoides thecatus (Acanthocephala). Richardson DJ, et al. **J Parasitol** 1997 Jun;83(3):542–3

Overberg Research Projects. VII. Anthelmintic sales in the Swellendam area of the southern Cape. Louw JP. **J S Afr Vet Assoc** 1990 Dec;61(4):159–62

Incidental subcutaneous gordiid parasitism in a cat. Moisan PG, et al. **J Vet Diagn Invest** 1996 Apr;8(2):270–2

A comparison of parasitic helminths and arthropods from two subspecies of fox squirrels (Sciurus niger) in Florida. Coyner DF, et al. **J Wildl Dis** 1996 Jul;32(3):492–7

Renal coccidiosis and other parasitologic conditions in lesser snow goose goslings at Tha-anne River, west coast Hudson Bay. Gomis S, et al. **J Wildl Dis** 1996 Jul;32(3):498–504

Seasonal occurrence and maturation of Neoechinorhynchus rutili (Acanthocephala) in barbel, Barbus barbus (Pisces), of the Jihlava River, Czech Republic. Moravec F, et al. **Parasite** 1994 Sep;1(3):271–8

Longer tusks are healthy signs [news] Bagla P. **Science** 1997 Jun 27;276(5321):1972

How do anthelmintic drugs work? [editorial; comment] Prichard R. **Vet J** 1997 Jul;154(1):5–7. Comment on: Vet J 1997 Jul;154(1):11–34.

Workshop summary: anthelmintic resistance. Borgsteede FH, et al. **Vet Parasitol** 1996 Aug;64(1–2):129–32

Biological control. Aspects of biological control—with special reference to arthropods, protozoans and helminths of domesticated animals. Grønvold J, et al. **Vet Parasitol** 1996 Aug;64(1–2):47–64 (61 ref.)

Comparison of moxidectin oral gel and ivermectin oral paste against a spectrum of internal parasites of ponies with special attention to encysted cyathostome larvae. Monahan CM, et al. **Vet Parasitol** 1996 Jun;63(3–4):225–35

Sustainable helminth control of ruminants in developing countries. Waller PJ. **Vet Parasitol** 1997 Jul 31; 71(2–3):195–207 (33 ref.)

Parasitic zoonoses in wildlife. van Knapen F. **Vet Q** 1996; 18 Suppl 3:S141–2 (0 ref.)

Observations on the helminths of harbour porpoises

HELMINTHIASIS

(Phocoena phocoena) and common guillemots (Uria aalge) from the Belgian and German coasts. Brosens L, et al. **Vet Rec** 1996 Sep 14;139(11):254–7

A survey of anthelmintic resistance by nematodes on three sheep and two goat farms in Hisar (India). Singh S, et al. **Vet Res Commun** 1997 Aug;21(6):447–51

Intestinal helminths of the red fox (Vulpes vulpes L.) in Galicia (Northwest Spain). Alvarez MF, et al. **Wiad Parazytol** 1995;41(4):429–42

[Control of gastrointestinal helminthiasis in pasture–reared lambs] Chroust K. **Vet Med (Praha)** 1997 Mar;42(3):67–70 (Eng. Abstr.) **(Cze)**

[Occurrence of helminths in slaughtered sheep in Upper Bavaria. 2. Relationship between fecal egg count and worm burden] Rehbein S, et al. **Berl Munch Tierarztl Wochenschr** 1997 Apr;110(4):148–52 (Eng. Abstr.) **(Ger)**

[Diagnostic PCR in veterinary parasitology: tritrichomonosis, neosporosis/toxoplasmosis echinococcosis/cysticercosis] Felleisen R, et al. **Schweiz Arch Tierheilkd** 1996; 138(3):144–51 (18 ref.) (Eng. Abstr.) **(Ger)**

[Spectrum of species and incidence of endoparasites in foals and their mother mares from breeding farms with and without anthelmintic prophylaxis in upper Bavaria] Beelitz P, et al. **Tierarztl Prax** 1996 Feb;24(1):48–54 (Eng. Abstr.) **(Ger)**

[Parasitic metazoans of Stenella coeruleoalba (Cetacea: Delphinidae) stranded along the coast of Latium, 1985–1991] Cerioni S, et al. **Parassitologia** 1996 Dec; 38(3):505–10 (Eng. Abstr.) **(Ita)**

HELMINTHOSPORIUM

DRUG EFFECTS

A PCR–based method to characterise and identify benzimidazole resistance in Helminthosporium solani. McKay GJ, et al. **FEMS Microbiol Lett** 1997 Jul 15; 152(2):371–8

GENETICS

A fatty acid synthase gene in Cochliobolus carbonum required for production of HC–toxin, cyclo(D–prolyl–L–alanyl–D–alanyl–L–2–amino–9, 10–epoxi–8–oxodecanoyl). Ahn JH, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):207–14

Organization and expression of the double–stranded RNA genome of Helminthosporium victoriae 190S virus, a totivirus infecting a plant pathogenic filamentous fungus. Huang S, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12541–6

METABOLISM

A fatty acid synthase gene in Cochliobolus carbonum required for production of HC–toxin, cyclo(D–prolyl–L–alanyl–D–alanyl–L–2–amino–9, 10–epoxi–8–oxodecanoyl). Ahn JH, et al. **Mol Plant Microbe Interact** 1997 Mar;10(2):207–14

VIROLOGY

Expression, assembly, and proteolytic processing of Helminthosporium victoriae 190S totivirus capsid protein in insect cells. Huang S, et al. **Virology** 1997 Jul 21; 234(1):130–7

HELMINTHS

ANATOMY & HISTOLOGY

Observations on the free–living adult stage of Gordius dimorphus (Nematomorpha: Gordioidea). Poulin R. **J Parasitol** 1996 Oct;82(5):845–6

CHEMISTRY

Free and bound biotin molecules in helminths: a source of artifacts for avidin biotin–based immunoassays. Romaris F, et al. **Parasitol Res** 1996;82(7):617–22

CLASSIFICATION

Composition and structure of helminth communities in eels Anguilla anguilla from Italian coastal lagoons. Kennedy CR, et al. **J Helminthol** 1997 Mar;71(1):35–40

A checklist of helminths from the respiratory system and gastrointestinal tracts of African Anatidae. Alexander SJ, et al. **Onderstepoort J Vet Res** 1997 Mar;64(1):5–16

[Use of polymerase chain reaction for identifying helminth DNA from the species Trichinella, Fasciola, Echinococcus, Nematodirus, Taenia] Romanova EA, et al. **Parazitologiia** 1997 Jan–Feb;31(1):53–65 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Novel sources of anthelmintics. Bennet–Jenkins E, et al. **Int J Parasitol** 1996 Aug–Sep;26(8–9):937–47 (33 ref.)

Eprinomectin: a novel avermectin for use as a topical endectocide for cattle. Shoop WL, et al. **Int J Parasitol** 1996 Nov;26(11):1237–42

Pharmacology of anthelmintic resistance. Sangster N. **Parasitology** 1996;113 Suppl:S201–16 (88 ref.)

Modes of action of anthelmintic drugs [see comments] Martin RJ. **Vet J** 1997 Jul;154(1):11–34 (80 ref.). Comment in: Vet J 1997 Jul;154(1):5–7.

How do anthelmintic drugs work? [editorial; comment] Prichard R. **Vet J** 1997 Jul;154(1):5–7. Comment on: Vet J 1997 Jul;154(1):11–34.

[Helminth nervous system as a field for anthelmintic action] Boczoń K. **Wiad Parazytol** 1996;42(4):373–9 (26 ref.) (Eng. Abstr.) **(Pol)**

ENZYMOLOGY

Do haematophagous parasites secrete SOD and promote blood flow? Pritchard DI. **Int J Parasitol** 1996 Nov; 26(11):1339–40

GROWTH & DEVELOPMENT

Helminth growth in vertebrate hosts: does host sex matter? Poulin R. **Int J Parasitol** 1996 Nov;26(11):1311–5

IMMUNOLOGY

IgE, allergies and helminth parasites: a new perspective on an old conundrum. Bell RG. **Immunol Cell Biol** 1996 Aug; 74(4):337–45 (81 ref.)

Defence against the immune barrage: helminth survival strategies. Riffkin M, et al. **Immunol Cell Biol** 1996 Dec; 74(6):564–74 (118 ref.)

[Vaccines against parasitic diseases of domestic animals] Eckert J, et al. **Tierarztl Prax** 1996 Aug;24(4):322–9 (50 ref.) (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Prevalence of infection, mean worm burden and degree of worm aggregation as determinants of prevalence of disease due to intestinal helminths. José MV, et al. **Arch Med Res** 1997 Spring;28(1):121–7

Intestinal parasites among food–handlers in Qualyobia Governorate, with reference to the pathogenic parasite blastocystis hominis. Sadek Y, et al. **J Egypt Soc Parasitol** 1997 Aug;27(2):471–8

A helminthological survey of wild red foxes (Vulpes vulpes) from the metropolitan area of Copenhagen. Willingham AL, et al. **J Helminthol** 1996 Sep;70(3):259–63

A comparison of parasitic helminths and arthropods from two subspecies of fox squirrels (Sciurus niger) in Florida. Coyner DF, et al. **J Wildl Dis** 1996 Jul;32(3):492–7

Structure and diversity of endoparasitic infracommunities and the trophic level of Pseudoplatystoma corruscans and Schizodon borelli (Osteichthyes) of the high Paraná River. Machado MH, et al. **Mem Inst Oswaldo Cruz** 1996 Jul–Aug; 91(4):441–8

Contribution to the knowledge of helminthofauna of wild mammals of Somalia. Iori A, et al. **Parassitologia** 1996 Dec; 38(3):511–5

Using molecular tools for diagnosis in veterinary parasitology. Comes AM, et al. **Vet Res** 1996; 27(4–5):333–42 (52 ref.)

[Occurrence of helminths in slaughtered sheep in Upper Bavaria. 2. Relationship between fecal egg count and worm burden] Rehbein S, et al. **Berl Munch Tierarztl Wochenschr** 1997 Apr;110(4):148–52 (Eng. Abstr.) **(Ger)**

[Spectrum of species and incidence of endoparasites in foals and their mother mares from breeding farms with and without anthelmintic prophylaxis in upper Bavaria] Beelitz P, et al. **Tierarztl Prax** 1996 Feb;24(1):48–54 (Eng. Abstr.) **(Ger)**

[Parasitic metazoans of Stenella coeruleoalba (Cetacea: Delphinidae) stranded along the coast of Latium, 1985–1991] Cerioni S, et al. **Parassitologia** 1996 Dec; 38(3):505–10 (Eng. Abstr.) **(Ita)**

METABOLISM

Cytochromes in the respiratory chain of helminth mitochondria. Kita K, et al. **Int J Parasitol** 1997 Jun; 27(6):617–30 (87 ref.)

Parasite sulphur amino acid metabolism. Walker J, et al. **Int J Parasitol** 1997 Aug;27(8):883–97 (90 ref.)

Neuropeptides and their evolution. Shaw C. **Parasitology** 1996;113 Suppl:S35–45 (47 ref.)

PARASITOLOGY

Coccidian intestinal parasites in the Priapulidae (Priapulida). Saldarriaga JF, et al. **Parasitol Res** 1997;83(3):233–40

PATHOGENICITY

Defence against the immune barrage: helminth survival strategies. Riffkin M, et al. **Immunol Cell Biol** 1996 Dec; 74(6):564–74 (118 ref.)

Critical resources that influence habitat selection decisions by gastrointestinal helminth parasites. Sukhdeo MV, et al. **Int J Parasitol** 1996 May;26(5):483–98 (145 ref.)

Anisakis simplex induces not only anisakiasis: report on 28 cases of allergy caused by this nematode. Fernández de Corres L, et al. **J Investig Allergol Clin Immunol** 1996 Sep–Oct;6(5):315–9

PHYSIOLOGY

Helminth infracommunities in Litoria genimaculata (Amphibia:Anura) from Birthday Creek, an upland rainforest stream in northern Queensland, Australia. Barton DP, et al. **Int J Parasitol** 1996 Dec;26(12):1381–5

RADIATION EFFECTS

Effect of ultraviolet radiation on the infectivity of Taenia taeniaeformis eggs. Konno K, et al. **Jpn J Vet Res** 1997 Aug;45(2):75–9

ULTRASTRUCTURE

Ultrastructural features of the female reproductive system and female gametes of Nectonema munidae Brinkmann 1930 (Nematomorpha). Schmidt–Rhaesa A. **Parasitol Res** 1997;83(1):77–81

HELPER CELLS see **T–LYMPHOCYTES, HELPER–INDUCER**

HELPER–INDUCER T–LYMPHOCYTES see **T–LYMPHOCYTES, HELPER–INDUCER**

HELPER VIRUSES

see related

SATELLITE VIRUSES

A helper–dependent adenovirus vector system: removal of helper virus by Cre–mediated excision of the viral packaging signal. Parks RJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13565–70

ENZYMOLOGY

Support of a cucumber mosaic virus satellite RNA maps to a single amino acid proximal to the helicase domain of the helper virus. Roossinck MJ, et al. **J Virol** 1997 Jan; 71(1):608–12

GENETICS

Efficiency of transduction by recombinant Sindbis replicon virus varies among cell lines, including mosquito cells and rat sensory neurons. Corsini J, et al. **Biotechniques** 1996 Sep;21(3):492–7

Helper virus–free herpes simplex virus–1 plasmid vectors for gene therapy of Parkinson's disease and other neurological disorders. Geller AI, et al. **Exp Neurol** 1997 Mar; 144(1):98–102 (26 ref.)

A novel 'piggyback' packaging system for herpes simplex virus amplicon vectors. Pechan PA, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2003–13

Bacteriophage PSP3 and phiR73 activator proteins: analysis of promoter specificities. Julien B, et al. **J Bacteriol** 1996 Oct;178(19):5668–75

Sindbis virus replicons and Sindbis virus: assembly of chimeras and of particles deficient in virus RNA. Frolov I, et al. **J Virol** 1997 Apr;71(4):2819–29

Bovine viral diarrhea virus: characterization of a cytopathogenic defective interfering particle with two internal deletions. Kupfermann H, et al. **J Virol** 1996 Nov; 70(11):8175–81

PHYSIOLOGY

A cDNA clone from a defective RNA of citrus tristeza virus is infective in the presence of the helper virus. Yang G, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1765–9

A helper–dependent system for adenovirus vector production helps define a lower limit for efficient DNA packaging. Parks RJ, et al. **J Virol** 1997 Apr;71(4):3293–8

HELPING BEHAVIOR

The relationship between helping alliance and outcome in outpatient treatment of alcoholics: a comparative study of psychiatric treatment and multimodal behavioural therapy. Ojehagen A, et al. **Alcohol Alcohol** 1997 May–Jun; 32(3):241–9

Characteristics and consequences of help–giving practices in contrasting human services programs. Trivette CM, et al. **Am J Community Psychol** 1996 Apr;24(2):273–93

Neighbourhood support to families with a disabled child: observations on a coping strategy of caregivers in a Jamaican community–based rehabilitation programme. Bischoff R, et al. **Child Care Health Dev** 1996 Nov; 22(6):397–410

Children's reactions to the receipt of direct and indirect help. Shell RM, et al. **Child Dev** 1996 Aug;67(4):1391–405

Balancing engagement and detachment in caregiving. Carmack BJ. **Image J Nurs Sch** 1997;29(2):139–44

Helping others: a response to HIV disease. Gaskins S, et al. **J Assoc Nurses AIDS Care** 1997 May–Jun;8(3):35–9

Helping behaviors and the perception of helping intentions among Chinese students. Li F. **J Soc Psychol** 1997 Aug; 137(4):496–501

The effects of cognitive and affective perspective taking on empathic concern and altruistic helping. Oswald PA. **J Soc Psychol** 1996 Oct;136(5):613–23

Two varieties of helping in drunk–driving intervention: personal and situational factors. Newcomb MD, et al. **J Stud Alcohol** 1997 Mar;58(2):191–9

Examination–related feedback, mood and helping: a correlational study. Feldt RC, et al. **Psychol Rep** 1997 Feb; 80(1):239–42

Effects of sex of caller, implied sexual orientation of caller, and urgency on altruistic response using the wrong number

technique. Gore KY, et al. **Psychol Rep** 1997 Jun;80(3 Pt 1):927–30

[An analysis of decision-making process in help-seeking behavior] Shimada I. **Shinrigaku Kenkyu** 1995 Oct; 66(4):269–76 (Eng. Abstr.) **(Jpn)**

HELPLESSNESS, LEARNED

Agency, communion, and achievement motivation. Strage A. **Adolescence** 1997 Summer;32(126):299–312

Posttraumatic stress and depression. A neurochemical anatomy of the learned helplessness animal model. Petty F, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:529–32

Serotonergic modulation of learned helplessness. Petty F, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:538–41

Hopelessness and 4-year progression of carotid atherosclerosis. The Kuopio Ischemic Heart Disease Risk Factor Study. Everson SA, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1490–5

Homeless, helpless and hospitalised: the travails of a Chinese refugee. Looi JC, et al. **Aust N Z J Psychiatry** 1996 Oct; 30(5):694–7

Family dynamics, hopelessness and psychiatric disturbance in parasuicidal adolescents. Pillay AL, et al. **Aust N Z J Psychiatry** 1997 Apr;31(2):227–31

A comparative approach to the behavior called "learned helplessness'. Eisenstein EM, et al. **Behav Brain Res** 1997 Jul;86(2):149–60 (54 ref.)

Inescapable shock-induced potentiation of morphine analgesia in rats: involvement of opioid, GABAergic, and serotonergic mechanisms in the dorsal raphe nucleus. Sutton LC, et al. **Behav Neurosci** 1997 Aug;111(4):816–24

Antagonism by benzodiazepines of the effects of serotonin-, but not norepinephrine-, uptake blockers in the learned helplessness paradigm in rats. Martin P, et al. **Biol Psychiatry** 1996 May 15;39(10):882–90

Poststress glucose mitigates behavioral impairment in rats in the "learned helplessness" model of psychopathology. Minor TR, et al. **Biol Psychiatry** 1997 Sep 1;42(5):324–34

Learned helplessness increases 5-hydroxytryptamine1B receptor mRNA levels in the rat dorsal raphe nucleus. Neumaier JF, et al. **Biol Psychiatry** 1997 Mar 15; 41(6):668–74

Involvement of GABAB receptor systems in action of antidepressants. II: Baclofen attenuates the effect of desipramine whereas muscimol has no effect in learned helplessness paradigm in rats. Nakagawa Y, et al. **Brain Res** 1996 Jul 29;728(2):225–30

Involvement of GABAB receptor systems in experimental depression: baclofen but not bicuculline exacerbates helplessness in rats. Nakagawa Y, et al. **Brain Res** 1996 Nov 25;741(1–2):240–5

Antidepressant-like effects of CP-154,526, a selective CRF1 receptor antagonist. Mansbach RS, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):21–6

Richard L. Solomon and learned helplessness. Overmier JB. **Integr Physiol Behav Sci** 1996 Oct-Dec;31(4):331–7

Learned helplessness or expectancy-value? A psychological model for describing the experiences of different categories of unemployed people. García Rodríguez Y. **J Adolesc** 1997 Jun;20(3):321–32

Cognitive correlates of anxious and depressive symptomatology: an examination of the Helplessness/Hopelessness model. Waikar SV, et al. **J Anxiety Disord** 1997 Jan-Feb;11(1):1–16

Learned helplessness in the multiple sclerosis population. McGuinness S. **J Neurosci Nurs** 1996 Jun;28(3):163–70

Indices of brain beta-adrenergic receptor signal transduction in the learned helplessness animal model of depression. Gurguis GN, et al. **J Psychiatr Res** 1996 Mar-Apr; 30(2):135–46

To inform or not to inform—a decision with psychobiological implication. Rotenberg VS. **Med Law** 1997;16(1):49–52

Antidepressant-like effect of brain-derived neurotrophic factor (BDNF). Siuciak JA, et al. **Pharmacol Biochem Behav** 1997 Jan;56(1):131–7

Modulation of learned helplessness by 5-hydroxytryptamine2A receptor antisense oligodeoxynucleotides. Papolos DF, et al. **Psychiatry Res** 1996 Jul 31;63(2–3):197–203

Cases of Sprague-Dawley rats which did not respond to an 'alarm substance' in the forced swimming test. Tachibana T, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):1007–18

Effects of morphine, naloxone and their interaction in the learned-helplessness paradigm in rats. Besson A, et al. **Psychopharmacology (Berl)** 1996 Jan;123(1):71–8

[Effects of co-administration of an antidepressant and an anxiolytic drug in the "learned helplessness" paradigm: importance of hydroxyzine] Martin P, et al. **Encephale** 1996 Jul-Aug;22(4):270–9 (Eng. Abstr.) **(Fre)**

[Agonistic behavior during stress inhibits the development of learned helplessness in rats] Zhukov DA, et al. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):6–11 (Eng. Abstr.) **(Rus)**

HELSINKI DECLARATION

World Medical Association declaration of Helsinki. Recommendations guiding physicians in biomedical research involving human subjects [see comments] **JAMA** 1997 Mar 19;277(11):925–6. Comment in: JAMA 1997 Mar 19;277(11):922–3.

HEMACHATUS see **COBRA**

HEMADSORPTION

N1 neuraminidase of influenza virus A/FPV/Rostock/34 has haemadsorbing activity. Hausmann J, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1719–28

Neuraminidase hemadsorption activity, conserved in avian influenza A viruses, does not influence viral replication in ducks. Kobasa D, et al. **J Virol** 1997 Sep;71(9):6706–13

[Variants of the use of hemosorption in patients with acute clofelin poisoning] Sentsov VG, et al. **Anesteziol Reanimatol** 1997 Jan-Feb;(1):79–83 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Multiplication and haemadsorbing activity of infectious salmon anaemia virus in the established Atlantic salmon cell line. Sommer AI, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1891–5

HEMADSORPTION VIRUS 1 see **PARAINFLUENZA VIRUS 3, HUMAN**

HEMADSORPTION VIRUS 2 see **PARAINFLUENZA VIRUS 1, HUMAN**

HEMAGGLUTINATING VIRUS OF JAPAN see **PARAMYXOVIRUS**

HEMAGGLUTINATION

Haemagglutination properties of Moraxella (Branhamella) catarrhalis. Fitzgerald M, et al. **Br J Biomed Sci** 1996 Dec; 53(4):257–62

A 200 kDa protein is associated with haemagglutinating isolates of Moraxella (Branhamella) catarrhalis. Fitzgerald M, et al. **FEMS Immunol Med Microbiol** 1997 Jul; 18(3):209–16

Immunochemical characterization of a haemagglutinating antigen of Arcobacter spp. Tsang RS, et al. **FEMS Microbiol Lett** 1996 Feb 15;136(2):209–13

Studies on the relationship between adhesive activity and haemagglutination by Helicobacter pylori. Osaki T, et al. **J Med Microbiol** 1997 Feb;46(2):117–21

Hemagglutination with porcine reproductive and respiratory syndrome virus. Jusa ER, et al. **J Vet Med Sci** 1996 Jun; 58(6):521–7

The hemagglutinin of Staphylococcus saprophyticus binds to a protein receptor on sheep erythrocytes. Meyer HG, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):37–43

Loss of Helicobacter pylori hemagglutination with serial laboratory passage and correlation of hemagglutination with gastric epithelial cell adherence. Hopkins RJ, et al. **Pathobiology** 1996;64(5):247–54

Receptor specificity of influenza A viruses correlates with the agglutination of erythrocytes from different animal species. Ito T, et al. **Virology** 1997 Jan 20;227(2):493–9

Relationship between haemagglutination and HeLa-cell adherence of Rhodococcus equi. Bern D, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):147–53

DRUG EFFECTS

Decreased agglutinability of methoxy-polyethylene glycol attached red blood cells: significance as a blood substitute. Jeong ST, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):503–11

Effect of subinhibitory concentrations of ceftazidime, ciprofloxacin, and azithromycin on the hemagglutination and adherence of uropathogenic Escherichia coli strains. Vranes J. **Chemotherapy** 1996 May-Jun;42(3):177–85

[Use of cell-surface antigens of Bacteroides thetaiotaomicron in the passive hemagglutination test and in the inhibition of passive hemagglutination] Rokosz A, et al. **Med Dosw Mikrobiol** 1995;47(3–4):189–95 (Eng. Abstr.) **(Pol)**

HEMAGGLUTINATION INHIBITION TESTS

Agglutination-inhibition assay for the detection of recombinant proteins tagged with peptide epitopes. Dolezal O, et al. **Biotechniques** 1997 May;22(5):897–904

METHODS

Determination of immunity to measles virus in young adults: comparative evaluation of a commercial enzyme immunoassay and the hemagglutination inhibition techniques. Duvdevani P, et al. **Clin Diagn Virol** 1996 Oct; 7(1):1–6

Correlation between ELISA, hemagglutination inhibition, and neutralization tests after vaccination against tick-borne encephalitis. Holzmann H, et al. **J Med Virol** 1996 Jan; 48(1):102–7

HEMAGGLUTINATION TESTS

Heterophile antibodies to chicken erythrocytes in sheep infected with Trypanosoma congolense. Joshua RA, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):253–8

Gel test application for IgG subclass detection in auto-immune haemolytic anaemia. Fabijańska-Mitek J, et al. **Vox Sang** 1997;72(4):233–7

[Evaluation of a test for rapid detection of D-dimers for the exclusion of the diagnosis of venous thrombosis] Jacq F, et al. **Presse Med** 1997 Jul 12;26(24):1132–4 (Eng. Abstr.) **(Fre)**

[Rheologic study of the dissociation reaction of erythrocyte immunologic agglutinates: application to subgroup A erythrocytes] Rasia-Valverde JR, et al. **Transfus Clin Biol** 1997;4(2):203–11 (Eng. Abstr.) **(Fre)**

[Effects of incubation temperature on the results of passive hemagglutination test] Gorchakov IuL. **Klin Lab Diagn** 1993 May-Jun;(3):74–5 (Eng. Abstr.) **(Rus)**

METHODS

A simple solid-phase method for the identification of red cell-bound antibodies without elution. Nagamine K, et al. **Am J Clin Pathol** 1996 Sep;106(3):365–9

Improvement of the slide hemagglutination test for rapid Chagas' disease screening in epidemiological surveys. Nagasse-Sugahara TK, et al. **Braz J Med Biol Res** 1996 May;29(5):623–8

Bispecific rabbit Fab'-bovine serum albumin conjugate used in hemagglutination immunoassay for beta-microseminoprotein. Yukawa N, et al. **J Immunoassay** 1997 Aug;18(3):215–33

Receptor specificities of variant Gal(alpha1-4)Gal-binding PapG adhesins of uropathogenic Escherichia coli as assessed by hemagglutination phenotypes. Johnson JR, et al. **J Infect Dis** 1997 Feb;175(2):373–81

Indirect hemagglutination antibodies against Burkholderia pseudomallei in normal blood donors and suspected cases of melioidosis in Malaysia. Norazah A, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):263–6

STANDARDS

Specificity of a novel red blood cell agglutination assay ('SimpliRED') for HIV-1/HIV-2 infection. Toye P, et al. **East Afr Med J** 1997 Apr;74(4):237–8

VETERINARY

Evaluation of diagnostic procedures to detect Mycoplasma synoviae in commercial multiplier-breeder farms and commercial hatcheries in Florida. Ewing ML, et al. **Avian Dis** 1996 Oct-Dec;40(4):798–806

Genetic studies on primary antibody response to sheep erythrocytes in guinea fowl. Saxena VK, et al. **Br Poult Sci** 1997 May;38(2):156–8

HEMAGGLUTINATION, VIRAL

Structure of a truncated human surfactant protein D is less effective in agglutinating bacteria than the native structure and fails to inhibit haemagglutination by influenza A virus. Eda S, et al. **Biochem J** 1997 Apr 15;323 (Pt 2):393–9

Preliminary characterization of a non-haemagglutinating strain of rabbit haemorrhagic disease virus from the United Kingdom. Capucci L, et al. **Zentralbl Veterinarmed [B]** 1996 Jun;43(4):245–50

DRUG EFFECTS

Modulating the expression of some biological membrane glycoconjugates by a Nocardia opaca fraction. Dumitrescu M, et al. **Roum Arch Microbiol Immunol** 1995 Oct-Dec; 54(4):285–94

IMMUNOLOGY

[Monoclonal anti-idiotypic antibodies, imitating the antigenic determinant of hemagglutination site of Venezuelan equine encephalomyelitis virus glycoprotein E2] Lifke VV, et al. **Vopr Virusol** 1997 Jan-Feb;42(1):19–23 (Eng. Abstr.) **(Rus)**

HEMAGGLUTININ GLYCOPROTEINS, INFLUENZA VIRUS

ANALYSIS

Antigenic analysis of influenza viruses isolated in Thailand between 1991 and 1994. Suzuki H, et al. **New Microbiol** 1997 Jul;20(3):207–14

BIOSYNTHESIS

Molecular and immunological characterization of soluble aggregated A/Victoria/3/75 (H3N2) influenza haemagglutinin expressed in insect cells. Vanlandschoot P, et al. **Arch Virol** 1996;141(9):1715–26

High-efficiency incorporation of functional influenza virus glycoproteins into recombinant vesicular stomatitis viruses. Kretzschmar E, et al. **J Virol** 1997 Aug;71(8):5982–9

CHEMISTRY

Survey of the hemagglutinin (HA) cleavage site sequence of H5 and H7 avian influenza viruses: amino acid sequence at the HA cleavage site as a marker of pathogenicity

potential. Senne DA, et al. **Avian Dis** 1996 Apr-Jun; 40(2):425-37

Structural study of the relationship between the rate of membrane fusion and the ability of the fusion peptide of influenza virus to perturb bilayers. Colotto A, et al. **Biochemistry** 1997 Jun 24;36(25):7644-51

pH-induced destabilization of lipid bilayers by a lipopeptide derived from influenza hemagglutinin. Bailey AL, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):232-44

Effect of the N-terminal glycine on the secondary structure, orientation, and interaction of the influenza hemagglutinin fusion peptide with lipid bilayers. Gray C, et al. **Biophys J** 1996 May;70(5):2275-86

Interaction of the influenza hemagglutinin fusion peptide with lipid bilayers: area expansion and permeation. Longo ML, et al. **Biophys J** 1997 Sep;73(3):1430-9

Influenza virus hemagglutinin and neuraminidase cytoplasmic tails control particle shape. Jin H, et al. **EMBO J** 1997 Mar 17;16(6):1236-47

An early stage of membrane fusion mediated by the low pH conformation of influenza hemagglutinin depends upon membrane lipids. Chernomordik LV, et al. **J Cell Biol** 1997 Jan 13;136(1):81-93

The membrane topology of the fusion peptide region of influenza hemagglutinin determined by spin-labeling EPR. Macosko JC, et al. **J Mol Biol** 1997 Apr 18;267(5):1139-48

Studies using double mutants of the conformational transitions in influenza hemagglutinin required for its membrane fusion activity. Steinhauer DA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12873-8

Assembly of a rod-shaped chimera of a trimeric GCN4 zipper and the HIV-1 gp41 ectodomain expressed in Escherichia coli. Weissenhorn W, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6065-9

DRUG EFFECTS

Molecular mechanism underlying the action of a novel fusion inhibitor of influenza A virus. Luo G, et al. **J Virol** 1997 May;71(5):4062-70

Characterization of a hemagglutinin-specific inhibitor of influenza A virus. Luo G, et al. **Virology** 1996 Dec 1; 226(1):66-76

GENETICS

Changes in the hemagglutinin molecule of influenza type A (H3N2) virus associated with increased virulence for mice. Hartley CA, et al. **Arch Virol** 1997;142(1):75-88

Selection of neutralizing antibody escape mutants with type A influenza virus HA-specific polyclonal antisera: possible significance for antigenic drift. Cleveland SM, et al. **Epidemiol Infect** 1997 Apr;118(2):149-54

Antigenic and genetic analyses of H1N1 influenza A viruses from European pigs. Brown IH, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):553-62

DNA immunization for influenza virus: studies using hemagglutinin- and nucleoprotein-expressing DNAs. Robinson HL, et al. **J Infect Dis** 1997 Aug;176 Suppl 1:S50-5

Cross-protection among lethal H5N2 influenza viruses induced by DNA vaccine to the hemagglutinin. Kodihalli S, et al. **J Virol** 1997 May;71(5):3391-6

The molecular characterization of influenza virus strains isolated in South Africa during 1993 and 1994. Besselaar TG, et al. **Res Virol** 1996 Jul-Aug;147(4):239-45

Adaptation of egg-grown and transfectant influenza viruses for growth in mammalian cells: selection of hemagglutinin mutants with elevated pH of membrane fusion. Lin YP, et al. **Virology** 1997 Jul 7;233(2):402-10

An Arg-Lys insertion at the hemagglutinin cleavage site of an H5N2 avian influenza isolate. Perdue ML, et al. **Virus Genes** 1996;12(1):77-84

The HA1 of cold-adapted influenza B vaccine is not altered during replication in human vaccinees. Abbasi S, et al. **Virus Res** 1995 Dec;39(2-3):377-83

Mutations in the hemagglutinin and matrix genes of a virulent influenza virus variant, A/FM/1/47-MA, control different stages in pathogenesis. Smeenk CA, et al. **Virus Res** 1996 Oct;44(2):79-95 (44 ref.)

IMMUNOLOGY

Differences between original strains and their mouse-adapted variants of human (H1) and avian (H2) influenza A viruses in the reaction with cross-neutralizing monoclonal antibody recognizing conformational epitope. Lipatov AS, et al. **Acta Virol** 1996 Sep;40(4):227-30

B-cell activation by superstimulatory influenza virus hemagglutinin: a pathogenesis for autoimmunity? Cash E, et al. **Immunol Rev** 1996 Aug;152:67-88 (116 ref.)

A major T cell determinant from the influenza virus hemagglutinin (HA) can be a cryptic self peptide in HA transgenic mice. Shih FF, et al. **Int Immunol** 1997 Feb; 9(2):249-61

Conditions that induce tolerance in mature CD4+ T cells. Lanoue A, et al. **J Exp Med** 1997 Feb 3;185(3):405-14

Studies on the molecular basis for loss of the ability of recent influenza A (H1N1) virus strains to agglutinate chicken erythrocytes. Morishita T, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2499-506

Kinetics of generation and persistence on membrane class II molecules of a viral peptide expressed on foreign and self proteins. Bot A, et al. **J Immunol** 1996 Oct 15; 157(8):3436-42

Recombinant baculovirus influenza A hemagglutinin vaccines are well tolerated and immunogenic in healthy adults. Lakey DL, et al. **J Infect Dis** 1996 Oct; 174(4):838-41

Role of different lymphoid tissues in the initiation and maintenance of DNA-raised antibody responses to the influenza virus H1 glycoprotein. Boyle CM, et al. **J Virol** 1996 Dec;70(12):9074-8

Immunogenicity of a contiguous T-B synthetic epitope of the A/PR/8/34 influenza virus. Brumeanu TD, et al. **J Virol** 1997 Jul;71(7):5473-80

Preferential selection of receptor-binding variants of influenza virus hemagglutinin by the neutralizing antibody repertoire of transgenic mice expressing a human immunoglobulin mu minigene. Laeeq S, et al. **J Virol** 1997 Apr;71(4):2600-5

Influenza A virus hemagglutinin is a B cell-superstimulatory lectin. Rott O, et al. **Med Microbiol Immunol (Berl)** 1996 Feb;184(4):185-93

T cell activation and human immunodeficiency virus replication after influenza immunization of infected children. Ramilo O, et al. **Pediatr Infect Dis J** 1996 Mar; 15(3):197-203

Mucosal immunization with DNA encoding influenza hemagglutinin. Ban EM, et al. **Vaccine** 1997 Jun;15(8):811-3

Characterization of humoral immune responses induced by an influenza hemagglutinin DNA vaccine. Deck RR, et al. **Vaccine** 1997 Jan;15(1):71-8

Long-term maintenance of B cell immunity to influenza virus hemagglutinin in mice following DNA-based immunization. Justewicz DM, et al. **Virology** 1996 Oct 1; 224(1):10-7

Two evolutionary strategies of influenza viruses to escape host non-specific inhibitors: alteration of hemagglutinin or neuraminidase specificity. Gimsa U, et al. **Virus Res** 1996 Jun;42(1-2):127-35

ISOLATION & PURIFICATION

Molecular and immunological characterization of soluble aggregated A/Victoria/3/75 (H3N2) influenza haemagglutinin expressed in insect cells. Vanlandschoot P, et al. **Arch Virol** 1996;141(9):1715-26

Simultaneous purification of influenza haemagglutinin and neuraminidase proteins by immunochromatography. Gerentes L, et al. **J Virol Methods** 1996 Apr 26; 58(1-2):155-65

METABOLISM

Development of a membrane fusible drug carrier from erythrocytes by the spontaneous transfer of viral fusion protein from influenza virus-infected cells. Kogure K, et al. **Biol Pharm Bull** 1997 May;20(5):581-3

Monomeric inhibitors of influenza neuraminidase enhance the hemagglutination inhibition activities of polyacrylamides presenting multiple C-sialoside groups. Choi SK, et al. **Chem Biol** 1996 Feb;3(2):97-104

Phosphatidic acid formation by phospholipase D is required for transport from the endoplasmic reticulum to the Golgi complex. Bi K, et al. **Curr Biol** 1997 May 1;7(5):301-7

The glycosylation of the influenza A virus hemagglutinin by mammalian cells. A site-specific study. Mir-Shekari SY, et al. **J Biol Chem** 1997 Feb 14;272(7):4027-36

Interactions between newly synthesized glycoproteins, calnexin and a network of resident chaperones in the endoplasmic reticulum. Tatu U, et al. **J Cell Biol** 1997 Feb 10;136(3):555-65

Apical sorting of influenza hemagglutinin by transcytosis in retinal pigment epithelium. Bonilha VL, et al. **J Cell Sci** 1997 Aug;110 (Pt 15):1717-27

Low pH-induced pore formation by spike proteins of enveloped viruses. Käsermann F, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3025-32

Effects of glycosylation on the properties and functions of influenza virus hemagglutinin. Schulze IT. **J Infect Dis** 1997 Aug;176 Suppl 1:S24-8 (27 ref.)

Cleavage of influenza A virus H1 hemagglutinin by swine respiratory bacterial proteases. Callan RJ, et al. **J Virol** 1997 Oct;71(10):7579-85

Differences in sialic acid-galactose linkages in the chicken egg amnion and allantois influence human influenza virus receptor specificity and variant selection. Ito T, et al. **J Virol** 1997 Apr;71(4):3357-62

Membrane rearrangements in fusion mediated by viral proteins. Melikyan GB, et al. **Trends Microbiol** 1997 Sep; 5(9):349-55 (70 ref.)

Binding of the influenza A virus to cell-surface receptors: structures of five hemagglutinin-sialyloligosaccharide complexes determined by X-ray crystallography. Eisen MB, et al. **Virology** 1997 May 26;232(1):19-31

Avian influenza A viruses differ from human viruses by recognition of sialyloligosaccharides and gangliosides and by a higher conservation of the HA receptor-binding site. Matrosovich MN, et al. **Virology** 1997 Jun 23;233(1):224-34

Hemagglutinin specificity and neuraminidase coding capacity of neuraminidase-deficient influenza viruses. Yang P, et al. **Virology** 1997 Mar 3;229(1):155-65

PHARMACOLOGY

Viral peptide specific induction of MHC class II expression by murine T cell clones. Thomas DB, et al. **J Immunol** 1996 Sep 15;157(6):2386-94

Desensitization of the antigen receptor primes B cells for activation by superstimulatory influenza virus. Rott O, et al. **J Inflamm** 1995-96;46(1):51-60

PHYSIOLOGY

Interaction of the influenza hemagglutinin fusion peptide with lipid bilayers: area expansion and permeation. Longo ML, et al. **Biophys J** 1997 Sep;73(3):1430-9

Membrane fusion by influenza hemagglutinin. Skehel JJ, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:573-80 (55 ref.)

Dilation of the influenza hemagglutinin fusion pore revealed by the kinetics of individual cell-cell fusion events. Blumenthal R, et al. **J Cell Biol** 1996 Oct;135(1):63-71

Inner but not outer membrane leaflets control the transition from glycosylphosphatidylinositol-anchored influenza hemagglutinin-induced hemifusion to full fusion. Melikyan GB, et al. **J Cell Biol** 1997 Mar 10;136(5):995-1005

Oligosaccharides in the stem region maintain the influenza virus hemagglutinin in the metastable form required for fusion activity. Ohuchi R, et al. **J Virol** 1997 May; 71(5):3719-25

The role of the cytoplasmic tail region of influenza virus hemagglutinin in formation and growth of fusion pores. Melikyan GB, et al. **Virology** 1997 Aug 18;235(1):118-28

HEMAGGLUTININ-NEURAMINIDASE GLYCOPROTEIN see **HN PROTEIN**

HEMAGGLUTININS

Helicobacter pylori does not have a hap mucinase gene that is quasi-identical to the Vibrio cholerae hap gene [letter; comment] Suerbaum S, et al. **Mol Microbiol** 1996 Jun; 20(5):1113-4. Comment on: Mol Microbiol 1994 Jul;13(1):153-60.

ADMINISTRATION & DOSAGE

Antibody response and reactions to completion of a four-dose series with a two- or three-component acellular pertussis vaccine compared to whole cell pertussis vaccine. Pichichero ME, et al. **Scand J Infect Dis** 1996;28(2):159-63

ANALYSIS

Organization and nucleotide sequence of genes for hemagglutinin components of Clostridium botulinum type B progenitor toxin. Yang GH, et al. **Biochem Mol Biol Int** 1996 Aug;39(6):1141-6

Novel agglutinin in the midgut of the tick Ixodes ricinus. Uhlíř J, et al. **Folia Parasitol (Praha)** 1996;43(3):233-9

Expression of galectins in head and neck squamous cell carcinoma. Gillenwater A, et al. **Head Neck** 1996 Sep-Oct; 18(5):422-32

Mycoplasma synoviae has two distinct phase-variable major membrane antigens, one of which is a putative hemagglutinin. Noormohammadi AH, et al. **Infect Immun** 1997 Jul;65(7):2542-7

A flagellar sheath protein of Helicobacter pylori is identical to HpaA, a putative N-acetylneuraminyllactose-binding hemagglutinin, but is not an adhesin for AGS cells. Jones AC, et al. **J Bacteriol** 1997 Sep;179(17):5643-7

Strikingly different localization of galectin-3 and galectin-4 in human colon adenocarcinoma T84 cells. Galectin-4 is localized at sites of cell adhesion. Huflejt ME, et al. **J Biol Chem** 1997 May 30;272(22):14294-303

Purification and characterization of a human brain galectin-1 ligand. Chadli A, et al. **J Neurochem** 1997 Apr;68(4):1640-7

BIOSYNTHESIS

Differential expression of two beta-galactoside-binding lectins in the reproductive tracts of pregnant mice. Phillips B, et al. **Biol Reprod** 1996 Sep;55(3):548-58

Expression of the 67-kD laminin receptor, galectin-1, and galectin-3 in advanced human uterine adenocarcinoma. van den Brule FA, et al. **Hum Pathol** 1996 Nov;27(11):1185-91

BLOOD

Cleavage of the human C5A receptor by proteinases derived from Porphyromonas gingivalis: cleavage of leukocyte C5a receptor. Jagels MA, et al. **Adv Exp Med Biol** 1996; 389:155-64

The development of ABO isohemagglutinins in Taiwanese. Liu YJ, et al. **Hum Hered** 1996 Jul-Aug;46(4):181-4

Inverse correlation between IgG-antihinge region and antierythrocyte autoantibody in chronic benign and malignant cold agglutination. Terness P, et al. **J Clin Immunol** 1997 May;17(3):220-7

Citrate-dependent auto-antibody causing error in blood grouping. Joshi SR. **Vox Sang** 1997;72(4):229-32

[Isolation and characteristics of galactose-binding lectins from human blood serum] Rapoport EM, et al. **Bioorg Khim** 1996 May;22(5):353-7 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Characterization of monomeric forms of galectin-1 generated by site-directed mutagenesis. Cho M, et al. **Biochemistry** 1996 Oct 8;35(40):13081-8

Titration and mapping of the active site of cysteine proteinases from Porphyromonas gingivalis (gingipains)

using peptidyl chloromethanes. Potempa J, et al. **Biol Chem** 1997 Mar-Apr;378(3-4):223-30

Hemagglutinins in fungus extracts and their blood group specificity. Furukawa K, et al. **Exp Clin Immunogenet** 1995; 12(4):223-31

Fungal anti-A agglutinins with different affinities for subgroups A1 and A2 red cells. Ying R, et al. **Exp Clin Immunogenet** 1995;12(4):232-7

Unusual structural stability and ligand induced alterations in oligomerization of a galectin. Surolia A, et al. **FEBS Lett** 1997 Jun 16;409(3):417-20

Carbohydrate-binding specificities and physico-chemical properties of lectins in various tissue of phlebotominae sandflies. Palánová L, et al. **Folia Parasitol (Praha)** 1997; 44(1):71-6

Is human galectin-1 activity modulated by monomer/dimer equilibrium? [letter] Giudicelli V, et al. **Glycobiology** 1997 Apr;7(3):viii-x

Isohemagglutinins and xenoreactive antibodies: members of a distinct family of natural antibodies. Parker W, et al. **Hum Immunol** 1996 Feb;45(2):94-104

Vibrio mimicus attaches to the intestinal mucosa by outer membrane hemagglutinins specific to polypeptide moieties of glycoproteins. Alam M, et al. **Infect Immun** 1997 Sep; 65(9):3662-5

The Tla protein of Porphyromonas gingivalis W50: a homolog of the RI protease precursor (PrpRI) is an outer membrane receptor required for growth on low levels of hemin. Aduse-Opoku J, et al. **J Bacteriol** 1997 Aug; 179(15):4778-88

A novel developmental stage-specific lectin of the basidiomycete Pleurotus cornucopiae. Oguri S, et al. **J Bacteriol** 1996 Oct;178(19):5692-8

Galectin-1 from bovine spleen: biochemical characterization, carbohydrate specificity and tissue-specific isoform profiles. Ahmed H, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):1007-19

Structural and functional characterization of a novel tumor-derived rat galectin-1 having transforming growth factor (TGF) activity: the relationship between intramolecular disulfide bridges and TGF activity. Yamaoka K, et al. **J Biochem (Tokyo)** 1996 May; 119(5):878-86

The primary structure and carbohydrate specificity of a beta-galactosyl-binding lectin from toad (Bufo arenarum Hensel) ovary reveal closer similarities to the mammalian galectin-1 than to the galectin from the clawed frog Xenopus laevis. Ahmed H, et al. **J Biol Chem** 1996 Dec 20;271(51):33083-94

Transient changes of the conformation of hemagglutinin of influenza virus at low pH detected by time-resolved circular dichroism spectroscopy. Korte T, et al. **J Biol Chem** 1997 Apr 11;272(15):9764-70

Virulence-associated sequence duplication at the hemagglutinin cleavage site of avian influenza viruses. Perdue ML, et al. **Virus Res** 1997 Jun;49(2):173-86

GENETICS

Genomic study of hemagglutinins of swine influenza (H1N1) viruses associated with acute and chronic respiratory diseases in pigs. Arora DJ, et al. **Arch Virol** 1997; 142(2):401-12

Universal template plasmid for introduction of the triple-HA epitope sequence into cloned genes. Sato MH, et al. **Biotechniques** 1997 Aug;23(2):254-6

Cloning and expression of the mRNA of human galectin-4, an S-type lectin down-regulated in colorectal cancer. Rechreche H, et al. **Eur J Biochem** 1997 Aug 15; 248(1):225-30

The genomic structure of the human Charcot-Leyden crystal protein gene is analogous to those of the galectin genes. Dyer KD, et al. **Genomics** 1997 Mar 1;40(2):217-21

The hemagglutinin gene A (hagA) of Porphyromonas gingivalis 381 contains four large, contiguous, direct repeats. Han N, et al. **Infect Immun** 1996 Oct;64(10):4000-7

The hemagglutinin genes hagB and hagC of Porphyromonas gingivalis are transcribed in vivo as shown by use of a new expression vector. Lee SW, et al. **Infect Immun** 1996 Nov;64(11):4802-10

The Tla protein of Porphyromonas gingivalis W50: a homolog of the RI protease precursor (PrpRI) is an outer membrane receptor required for growth on low levels of hemin. Aduse-Opoku J, et al. **J Bacteriol** 1997 Aug; 179(15):4778-88

Nature of DNA binding and RNA polymerase interaction of the Bordetella pertussis BvgA transcriptional activator at the fha promoter. Boucher PE, et al. **J Bacteriol** 1997 Mar;179(5):1755-63

A flagellar sheath protein of Helicobacter pylori is identical to HpaA, a putative N-acetylneuraminyllactose-binding hemagglutinin, but is not an adhesin for AGS cells. Jones AC, et al. **J Bacteriol** 1997 Sep;179(17):5643-7

Cloning and sequencing of the gene encoding a novel lysine-specific cysteine proteinase (Lys-gingipain) in Porphyromonas gingivalis: structural relationship with the arginine-specific cysteine proteinase (Arg-gingipain). Okamoto K, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):398-406

Molecular cloning and characterization of Porphyromonas gingivalis lysine-specific gingipain. A new member of an emerging family of pathogenic bacterial cysteine proteinases. Pavloff N, et al. **J Biol Chem** 1997 Jan 17; 272(3):1595-600

Expression of the 14 kDa galactose-binding protein, galectin-1, on human tubular epithelial cells. Bürger A, et al. **Kidney Int** 1996 Sep;50(3):754-9

Domain-specific rearrangement between the two Arg-gingipain-encoding genes in Porphyromonas gingivalis: possible involvement of nonreciprocal recombination. Nakayama K. **Microbiol Immunol** 1997; 41(3):185-96

cDNA cloning of galectins from third stage larvae of the parasitic nematode Teladorsagia circumcincta. Newton SE, et al. **Mol Biochem Parasitol** 1997 Jun;86(2):143-53

The afimbrial adhesive sheath encoded by the afa-3 gene cluster of pathogenic Escherichia coli is composed of two adhesins. Garcia MI, et al. **Mol Microbiol** 1996 Feb; 19(4):683-93

The prpR1 and prR2 arginine-specific protease genes of Porphyromonas gingivalis W50 produce five biochemically distinct enzymes. Rangarajan M, et al. **Mol Microbiol** 1997 Mar;23(5):955-65

Tagging a Vibrio cholerae El Tor candidate vaccine strain by disruption of its hemagglutinin/protease gene using a novel reporter enzyme: Clostridium thermocellum endoglucanase A. Robert A, et al. **Vaccine** 1996 Nov; 14(16):1517-22

Virulence-associated sequence duplication at the hemagglutinin cleavage site of avian influenza viruses. Perdue ML, et al. **Virus Res** 1997 Jun;49(2):173-86

HISTORY

[The first human blood transfusion in Russia taking isohemagglutination factors into account] Nechaĭ AI. **Vestn Khir Im I I Grek** 1995;154(4-6):135 **(Rus)**

IMMUNOLOGY

Anti-galectin-1 autoantibodies in serum of patients with neurological diseases. Lutomski D, et al. **Clin Chim Acta** 1997 Jun 27;262(1-2):131-8

Immune response to the mannose-sensitive hemagglutinin in patients with cholera due to Vibrio cholerae O1 and O0139. Qadri F, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):429-34

Hemagglutinins in Anopheles quadrimaculatus, strains susceptible and refractory to Brugia malayi, and their role in the immune response to filarial parasites. Nayar JK, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jan; 116(1):109-17

Protective role of immunoglobulin G antibodies to filamentous hemagglutinin and pertactin of Bordetella pertussis in Bordetella parapertussis infection. He Q, et al. **Eur J Clin Microbiol Infect Dis** 1996 Oct;15(10):793-8

Comparative safety and immunogenicity of an acellular versus whole-cell pertussis component of diphtheria-tetanus-pertussis vaccines in Senegalese infants. Simondon F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Dec;15(12):927-32

Binding of ALA-substituted analogs of HA306-320 to DR1101, DR1301, and DR0402 molecules: correlation of DR-peptide interactions with recognition by a single TCR. Zeliszewski D, et al. **Hum Immunol** 1996 Sep 15;50(1):61-9

Characterization of a recombinant fragment that contains a carbohydrate recognition domain of the filamentous hemagglutinin. Liu DF, et al. **Infect Immun** 1997 Aug; 65(8):3465-8

A monoclonal antibody against neural crest-stage Xenopus laevis lectin perturbs craniofacial development of Xenopus. Evanson JE, et al. **J Craniofac Genet Dev Biol** 1996 Apr-Jun;16(2):74-93

Immunodominant domains present on the Bordetella pertussis vaccine component filamentous hemagglutinin. Leininger E, et al. **J Infect Dis** 1997 Jun;175(6):1423-31

Hepatitis C after immunoglobulin administration [letter; comment] Barton LL. **Pediatr Infect Dis J** 1996 Jun; 15(6):558. Comment on: Pediatr Infect Dis J 1995 Nov;14(11):982-92.

Induction of mucosal immune responses against a heterologous antigen fused to filamentous hemagglutinin after intranasal immunization with recombinant Bordetella pertussis. Renauld-Mongénie G, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7944-9

[Cold agglutinin disease and paroxysmal cold hemoglobinuria] Kannagi R, et al. **Nippon Rinsho** 1996 Sep; 54(9):2519-27 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Effect of lomefloxacin on the synthesis of antibodies to vaccine EV fraction I and hemagglutinins] Iordanova AI, et al. **Antibiot Khimioter** 1996 Apr;41(4):44-50 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Purification of a 63 kDa beta-D-galactoside binding lectin from cuttlefish, Todarodes pacificus. Ozeki Y. **Biochem Mol Biol Int** 1997 Mar;41(3):633-40

Purification of a cell-associated hemagglutinin from Shigella dysenteriae type 1. Guhathakurta B, et al. **FEMS Immunol Med Microbiol** 1996 Jun;14(2-3):63-6

Purification and characterization of novel hemagglutinins from Vibrio mimicus: a 39-kilodalton major outer membrane protein and lipopolysaccharide. Alam M, et al. **Infect Immun** 1996 Oct;64(10):4035-41

A novel beta-galactoside-binding lectin in cultured murine lymphocytic leukemia cells. Mai A, et al. **J Biochem (Tokyo)** 1996 Sep;120(3):478-80

METABOLISM

Does the lectin Helix pomatia agglutinin bind to hyaluronic acid in breast and colon cancer? Schumacher U, et al. **Acta Histochem** 1996 Nov;98(4):435-40

Biochemical and mutational analysis of a gingipain-like peptidase activity from Prevotella ruminicola B(1)4 and its role in ammonia production by ruminal bacteria. Madeira HM, et al. **Appl Environ Microbiol** 1997 Feb; 63(2):670-5

Thermodynamics of carbohydrate binding to galectin-1 from Chinese hamster ovary cells and two mutants. A comparison with four galactose-specific plant lectins. Gupta D, et al. **Biochemistry** 1996 Dec 3;35(48):15236-43

Anti-Sia-lb (anti-Gd) cold agglutinins bind the domain NeuNAc alpha2-3Gal in sialyl Lewis(x), sialyl Lewis(a), and related carbohydrates on nucleated cells and in soluble cancer-associated mucins. Gallart T, et al. **Blood** 1997 Aug 15;90(4):1576-87

Crossreactivity of hemolytic and hemagglutinating proteins in the coelomic fluid of lumbricidae (Annelida). Mohrig W, et al. **Comp Biochem Physiol A Physiol** 1996 Sep; 115(1):19-30

Labelling of breast carcinoma, thyroid carcinoma and melanoma with manno- and galacto-specific lectins from marine invertebrates. Opric MM, et al. **Eur J Histochem** 1996;40(3):211-8

Galectin-1 is expressed by thymic epithelial cells in myasthenia gravis. Hafer-Macko C, et al. **Glycoconj J** 1996 Aug;13(4):591-7

Adhesion of Helicobacter pylori strains to alpha-2,3-linked sialic acids. Hirmo S, et al. **Glycoconj J** 1996 Dec; 13(6):1005-11

Binding of ALA-substituted analogs of HA306-320 to DR1101, DR1301, and DR0402 molecules: correlation of DR-peptide interactions with recognition by a single TCR. Zeliszewski D, et al. **Hum Immunol** 1996 Sep 15;50(1):61-9

Bordetella pertussis binds the human complement regulator C4BP: role of filamentous hemagglutinin. Berggård K, et al. **Infect Immun** 1997 Sep;65(9):3638-43

Lack of functional complementation between Bordetella pertussis filamentous hemagglutinin and Proteus mirabilis HpmA hemolysin secretion machineries. Jacob-Dubuisson F, et al. **J Bacteriol** 1997 Feb;179(3):775-83

Activation of blood coagulation factor X by arginine-specific cysteine proteinases (gingipain-Rs) from Porphyromonas gingivalis. Imamura T, et al. **J Biol Chem** 1997 Jun 20; 272(25):16062-7

Identification of a heparin-binding hemagglutinin present in mycobacteria. Menozzi FD, et al. **J Exp Med** 1996 Sep 1;184(3):993-1001

Recombinant galectin-1 recognizes mucin and epithelial cell surface glycocalyces of gastrointestinal tract. Wasano K, et al. **J Histochem Cytochem** 1997 Feb;45(2):275-83

Analysis of the protease and adhesin domains of the PrpRI of Porphyromonas gingivalis. Curtis MA. **J Periodontal Res** 1997 Jan;32(1 Pt 2):133-9

Multiple colonization defects in a cysteine protease mutant of Porphyromonas gingivalis. Kuramitsu H, et al. **J Periodontal Res** 1997 Jan;32(1 Pt 2):140-2

Adherence of Porphyromonas gingivalis to matrix proteins via a fimbrial cryptic receptor exposed by its own arginine-specific protease. Kontani M, et al. **Mol Microbiol** 1997 Jun;24(6):1179-87

Deacylation of influenza virus hemagglutinin does not affect the kinetics of low pH induced membrane fusion. Schroth B, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R257-8

Changes in the distribution pattern of galectin-1 and galectin-3 in human placenta correlates with the differentiation pathways of trophoblasts. Maquoi E, et al. **Placenta** 1997 Jul-Aug;18(5-6):433-9

PHARMACOLOGY

Inhibition assay for the binding of biotinylated von Willebrand factor to platelet-bound microtiter wells in the presence of ristocetin or botrocetin. Miura S, et al. **Anal Biochem** 1996 May 1;236(2):215-20

beta Galactoside binding protein inhibits B cell growth and induces cell apoptosis. Murphy JJ, et al. **Biochem Soc Trans** 1997 May;25(2):248S

Generation of H2O2 by human neutrophils and changes of cytosolic Ca2+ and pH of rat thymocytes in response to galactoside-binding proteins (lectins or immunoglobulins). Timoshenko AV, et al. **Biosci Rep** 1997 Apr;17(2):219-30

Is human galectin-1 activity modulated by monomer/dimer equilibrium? [letter] Giudicelli V, et al. **Glycobiology** 1997 Apr;7(3):viii-x

Galectin-1, an endogenous lectin produced by thymic epithelial cells, induces apoptosis of human thymocytes. Perillo NL, et al. **J Exp Med** 1997 May 19;185(10):1851-8

Membrane fusion by the influenza hemagglutinin: the fusion pore. White JM, et al. **Soc Gen Physiol Ser** 1996;51:223-9 (39 ref.)

PHYSIOLOGY

Role of galectin-1 in the developing mouse olfactory system. Puche AC, et al. **Dev Biol** 1996 Oct 10;179(1):274-87

Role of cell-associated N-acetyl-D-glucosamine specific haemagglutinin in the adhesion of Vibrio cholerae O1 to rabbit intestinal epithelial cells in vitro. Sasmal D, et al. **FEMS Immunol Med Microbiol** 1996 Feb;13(2):101-5

Phenotypic expression of a mannose-sensitive hemagglutinin

HEMAGGLUTININS

by a Vibrio cholerae O1 E1Tor strain and evaluation of its role in intestinal adherence and colonization. Mukhopadhyay S, et al. **FEMS Microbiol Lett** 1996 May 1;138(2-3):227-32

A novel cryohemagglutinin associated with adherence of enteroaggregative Escherichia coli. Yamamoto T, et al. **Infect Immun** 1997 Aug;65(8):3478-84

A monoclonal antibody against neural crest-stage Xenopus laevis lectin perturbs craniofacial development of Xenopus. Evanson JE, et al. **J Craniofac Genet Dev Biol** 1996 Apr-Jun;16(2):74-93

Role of Bordetella bronchiseptica sialic acid-binding hemagglutinin as a putative colonization factor. Ishikawa H, et al. **J Vet Med Sci** 1997 Jan;59(1):43-4

Evidence for a role for galectin-1 in pre-mRNA splicing. Vyakarnam A, et al. **Mol Cell Biol** 1997 Aug;17(8):4730-7

THERAPEUTIC USE

Immunoprotective activity of the galactoside-specific lectin from mistletoe after tumor destructive therapy in glioma patients. Lenartz D, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3799-802

TOXICITY

Vibrio cholerae hemagglutinin/protease (HA/protease) causes morphological changes in cultured epithelial cells and perturbs their paracellular barrier function. Wu Z, et al. **Microb Pathog** 1996 Aug;21(2):111-23

HEMAGGLUTININS, PLANT see **LECTINS**

HEMAGGLUTININS, VIRAL

ANALYSIS

Characterization of porcine reproductive and respiratory syndrome virus hemagglutinin. Jusa ER, et al. **J Vet Med Sci** 1997 Apr;59(4):281-6

Recombinant fibre proteins of human adenoviruses Ad9, Ad15 and Ad19: localization of the haemagglutination properties and the type-specific determinant. Elz B, et al. **Res Virol** 1997 Jan-Feb;148(1):5-10

CHEMISTRY

Targeted delivery of human neurofibromin and c-Raf-1 mutants to the cytoplasmic membrane by use of the influenza virus hemagglutinin. Nur-E-Kamal MS, et al. **Biochim Biophys Acta** 1997 Apr 4;1338(2):233-43

Sequence and structure alignment of Paramyxoviridae attachment proteins and discovery of enzymatic activity for a morbillivirus hemagglutinin. Langedijk JP, et al. **J Virol** 1997 Aug;71(8):6155-67

[Localization of a group-specific, hemagglutinating epitope of alphavirus glycoprotein E2 using a phage peptide library] Kuz'micheva GA, et al. **Dokl Akad Nauk** 1997 Jan;352(1):113-6 **(Rus)**

DRUG EFFECTS

Stability of hemagglutinating activity of extracellular and intracellular forms of Japanese encephalitis virus exposed to acidic pH. Nawa M. **Microbiol Immunol** 1996; 40(5):365-71

GENETICS

Nucleotide sequence of the haemagglutinin-neuraminidase (HN) gene of a Malaysian heat resistant viscerotropic-velogenic Newcastle disease virus (NDV) strain AF2240. Tan WS, et al. **DNA Seq** 1995;6(1):47-50

Characterization of the vaccinia MVA hemagglutinin gene locus and its evaluation as an insertion site for foreign genes. Antoine G, et al. **Gene** 1996 Oct 24;177(1-2):43-6

Class I-restricted CTL induction by mucosal immunization with naked DNA encoding measles virus haemagglutinin. Etchart N, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1577-80

Sequence divergence of measles virus haemagglutinin during natural evolution and adaptation to cell culture. Rima BK, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):97-106

Humoral and cellular immune responses following vaccination with purified recombinant hemagglutinin from influenza A (H3N2) virus. Powers DC, et al. **J Infect Dis** 1997 Feb;175(2):342-51

The nucleotide sequence of the hemagglutinin gene of the LA strain of rinderpest virus, a seed virus strain used for vaccine production in Japan. Sugiyama M, et al. **J Vet Med Sci** 1996 Aug;58(8):769-71

Characterization of Newcastle disease virus vaccines by biological properties and sequence analysis of the hemagglutinin-neuraminidase protein gene. Seal BS, et al. **Vaccine** 1996 Jun;14(8):761-6

Immunization with plasmid DNA encoding for the measles virus hemagglutinin and nucleoprotein leads to humoral and cell-mediated immunity. Cardoso AI, et al. **Virology** 1996 Nov 15;225(2):293-9

Characterization of membrane-bound and membrane anchor-less forms of hemagglutinin glycoprotein of Rinderpest virus expressed by baculovirus recombinants. Naik S, et al. **Virus Genes** 1997;14(2):95-104

Comparative analysis of the attachment protein gene (H) of dolphin morbillivirus. Blixenkrone-Møller M, et al. **Virus Res** 1996 Jan;40(1):47-55

Analysis of the haemagglutinin gene of current wild-type canine distemper virus isolates from Germany. Haas L, et al. **Virus Res** 1997 May;48(2):165-71

Expression and properties of feline herpesvirus type 1 gD (hemagglutinin) by a recombinant baculovirus. Maeda K, et al. **Virus Res** 1996 Dec;46(1-2):75-80

Clustering of haemagglutinin gene sequences of measles viruses isolated in the Gambia. Outlaw MC, et al. **Virus Res** 1997 May;48(2):125-31

IMMUNOLOGY

Hemagglutinin-esterase glycoprotein gene of bovine corona virus delivered by adenovirus vector induces mucosal immunity in cotton rats. Baca-Estrada ME, et al. **Adv Exp Med Biol** 1997;412:431-3

Immune receptor repertoire for influenza haemagglutinin. Thomas DB, et al. **Biosci Rep** 1995 Dec;15(6):481-92

Increasing doses of purified influenza virus hemagglutinin and subvirion vaccines enhance antibody responses in the elderly. Keitel WA, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):507-10

Characterization of monoclonal antibodies to the hemagglutinin-esterase glycoprotein of a bovine coronavirus associated with winter dysentery and cross-reactivity to field isolates. Milane G, et al. **J Clin Microbiol** 1997 Jan;35(1):33-40

Class I-restricted CTL induction by mucosal immunization with naked DNA encoding measles virus haemagglutinin. Etchart N, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1577-80

Mucosal and systemic immune responses to measles virus haemagglutinin in mice immunized with a recombinant vaccinia virus. Etchart N, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2471-8

Antibodies to a new linear site at the topographical or functional interface between the haemagglutinin and fusion proteins protect against measles encephalitis. Fournier P, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1295-302

Protection against measles virus encephalitis by monoclonal antibodies binding to a cystine loop domain of the H protein mimicked by peptides which are not recognized by maternal antibodies. Ziegler D, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2479-89

The weak CD8+ CTL response to an influenza hemagglutinin epitope reflects limited T cell availability. Cao W, et al. **J Immunol** 1996 Jul 15;157(2):505-11

Humoral and cellular immune responses following vaccination with purified recombinant hemagglutinin from influenza A (H3N2) virus. Powers DC, et al. **J Infect Dis** 1997 Feb;175(2):342-51

A pulmonary influenza virus infection in SCID mice can be cured by treatment with hemagglutinin-specific antibodies that display very low virus-neutralizing activity in vitro. Mozdzanowska K, et al. **J Virol** 1997 Jun; 71(6):4347-55

Interaction of measles virus glycoproteins with the surface of uninfected peripheral blood lymphocytes induces immunosuppression in vitro [see comments] Schlender J, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13194-9 . Comment in: Proc Natl Acad Sci U S A 1996 Nov 12;93(23):12756-8.

Immunogenic and protective properties of haemagglutinin protein (H) of rinderpest virus expressed by a recombinant baculovirus. Naik S, et al. **Vaccine** 1997 Apr-May; 15(6-7):603-7

METABOLISM

Effects of brefeldin A on the expression and transport of influenza A virus haemagglutinin, M1 and M2 proteins within the cell. Ciampor F, et al. **Acta Virol** 1997 Apr; 41(2):83-91

Inhibition of influenza virus fusion by polyanionic proteins. Schoen P, et al. **Biochem Pharmacol** 1997 Apr 4; 53(7):995-1003

Differential fatty acid selection during biosynthetic S-acylation of a transmembrane protein (HEF) and other proteins in insect cells (Sf9) and in mammalian cells (CV1). Reverey H, et al. **J Biol Chem** 1996 Sep 27; 271(39):23607-10

The ectodomain of measles virus envelope glycoprotein does not gain access to the cytosol and MHC class I presentation pathway following virus-cell fusion. Cardoso AI, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2695-9

Neuropathogenicity of mouse hepatitis virus JHM isolates differing in hemagglutinin-esterase protein expression [see comments] Yokomori K, et al. **J Neurovirol** 1995 Dec; 1(5-6):330-9. Comment in: J Neurovirol 1995 Dec;1(5-6):323-5.

Characterization of porcine reproductive and respiratory syndrome virus hemagglutinin. Jusa ER, et al. **J Vet Med Sci** 1997 Apr;59(4):281-6

Adhesion of insect cells expressing the feline herpesvirus type 1 hemagglutinin (gD) to feline cell lines. Maeda K, et al. **J Vet Med Sci** 1997 Mar;59(3):217-9

Hemagglutinin-esterase, a novel structural protein of torovirus. Cornelissen LA, et al. **J Virol** 1997 Jul; 71(7):5277-86

CD46 short consensus repeats III and IV enhance measles virus binding but impair soluble hemagglutinin binding. Devaux P, et al. **J Virol** 1997 May;71(5):4157-60

Influenza virus hemagglutinin and neuraminidase glycoproteins stimulate the membrane association of the matrix protein. Enami M, et al. **J Virol** 1996 Oct; 70(10):6653-7

Measles virus hemagglutinin mediates monocyte aggregation and increased adherence to measles-infected endothelial cells. Soilu-Hänninen M, et al. **Med Microbiol Immunol (Berl)** 1996 Sep;185(2):73-80

Stability of hemagglutinating activity of extracellular and intracellular forms of Japanese encephalitis virus exposed to acidic pH. Nawa M. **Microbiol Immunol** 1996; 40(5):365-71

A 3D model for the measles virus receptor CD46 based on homology modeling, Monte Carlo simulations, and hemagglutinin binding studies. Mumenthaler C, et al. **Protein Sci** 1997 Mar;6(3):588-97

Mapping amino acids of the measles virus hemagglutinin responsible for receptor (CD46) downregulation. Bartz R, et al. **Virology** 1996 Oct 1;224(1):334-7

Biologic effects of introducing additional basic amino acid residues into the hemagglutinin cleavage site of a virulent avian influenza virus. Horimoto T, et al. **Virus Res** 1997 Jul;50(1):35-40

[Study of incorporation of highly-cleaved H7 hemagglutinin, expressed by a recombinant vector in virions of superinfecting influenza viruses] Grodnitskaia NA, et al. **Vopr Virusol** 1997 Jul-Aug;42(4):161-5 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

[The role of influenza virus hemagglutinin in blood anticoagulation processes] Zhilinskaia IN, et al. **Vopr Virusol** 1996 Jul-Aug;41(4):179-83 (Eng. Abstr.) **(Rus)**

HEMANGIOBLASTOMA

DIAGNOSIS

Identification of the feeding arteries of spinal vascular lesions via phase-contrast MR angiography with three-dimensional acquisition and phase display. Mascalchi M, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):351-8

Solid cerebellar hemangioblastoma with an evolving large cystic component. Kurosaki Y, et al. **Eur Radiol** 1997; 7(6):910-2

Intraosseous vertebral haemangioblastoma: MRI. Higgins JN, et al. **Neuroradiology** 1996 May;38 Suppl 1:S107-10

Cerebellar hemangioblastoma presenting as secondary erythrocytosis and aspiration pneumonia. Farrukh HM. **West J Med** 1996 Feb;164(2):169-71

[The value of magnetic resonance imaging in the diagnosis of spinal cord hemangioblastoma. Apropos of 12 cases] Sonier CB, et al. **J Neuroradiol** 1994 Apr;21(3):194-204 (Eng. Abstr.) **(Fre)**

[Hemangioblastoma: description of a disease picture and report of 41 cases] Zimmermann M, et al. **Zentralbl Neurochir** 1997;58(1):1-6 (Eng. Abstr.) **(Ger)**

ETIOLOGY

[Variety of pancreatic lesions observed in von Hippel-Lindau disease. Apropos of 8 cases] Hammel P, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1011-7 (Eng. Abstr.) **(Fre)**

GENETICS

Molecular genetic analysis of the von Hippel-Lindau disease tumor suppressor gene in familial and sporadic cerebellar hemangioblastomas. Tse JY, et al. **Am J Clin Pathol** 1997 Apr;107(4):459-66

Pathology, genetics and cell biology of hemangioblastomas. Wizigmann-Voos S, et al. **Histol Histopathol** 1996 Oct; 11(4):1049-61 (111 ref.)

von Hippel-Lindau gene deletion detected in the stromal cell component of a cerebellar hemangioblastoma associated with von Hippel-Lindau disease. Vortmeyer AO, et al. **Hum Pathol** 1997 May;28(5):540-3

The familial occurrence of brain tumors. Chang DS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):268-71

Should endolymphatic sac tumors be considered part of the von Hippel-Lindau complex? Pathology case report. Tibbs RE Jr, et al. **Neurosurgery** 1997 Apr;40(4):848-55; discussion 855 (29 ref.)

METABOLISM

Vascular growth factors and receptors in capillary hemangioblastomas and hemangiopericytomas. Hatva E, et al. **Am J Pathol** 1996 Mar;148(3):763-75

PATHOLOGY

Different expression of adhesion molecules on stromal cells and endothelial cells of capillary hemangioblastoma. Böhling T, et al. **Acta Neuropathol (Berl)** 1996 Nov; 92(5):461-6

Pathology, genetics and cell biology of hemangioblastomas. Wizigmann-Voos S, et al. **Histol Histopathol** 1996 Oct; 11(4):1049-61 (111 ref.)

Conditional switching of vascular endothelial growth factor (VEGF) expression in tumors: induction of endothelial cell shedding and regression of hemangioblastoma-like vessels by VEGF withdrawal. Benjamin LE, et al.

Proc Natl Acad Sci U S A 1997 Aug 5;94(16):8761–6

[Solitary capillary hemangioblastoma, cellular variant. Clinical, radiological, and anatomo–pathological study of 2 cases] Del Basso De Caro M, et al. **Pathologica** 1995 Oct;87(5):518–21 (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

Hemangioblastoma and oculomotor pathology. Isotalo E, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:119–22

SURGERY

Testicular embryonal cell carcinoma metastasizing to the site of a previously excised cerebellar haemangioblastoma. Chacko AG, et al. **Br J Neurosurg** 1996 Apr;10(2):197–200

Stereotactic multiple are radiotherapy. IV—Haemangioblastoma. Chakraborti PR, et al. **Br J Neurosurg** 1997 Apr;11(2):110–5

Cerebellar haemangioblastoma with extensive dissemination. Hande AM, et al. **Br J Neurosurg** 1996 Oct;10(5):507–11

Successful surgical removal of an asymptomatic optic nerve hemangioblastoma in von Hippel–Lindau disease. Raila FA, et al. **J Neuroimaging** 1997 Jan;7(1):48–50 (23 ref.)

Gamma knife radiosurgery in 11 hemangioblastomas. Niemelä M, et al. **J Neurosurg** 1996 Oct;85(4):591–6

Preoperative embolization of solid cervicomedullary junction hemangioblastomas: report of two cases. Vázquez–Añón V, et al. **Neuroradiology** 1997 Feb;39(2):86–9

Hemangioblastomas of the spinal cord and the brainstem: diagnostic and therapeutic features. Spetzger U, et al. **Neurosurg Rev** 1996;19(3):147–51

Is unchanged tumor volume after radiosurgery a measure of outcome? Yamamoto M, et al. **Stereotact Funct Neurosurg** 1996;66 Suppl 1:231–9

[Spinal cord hemangioblastomas and pseudotumors: therapeutic strategy] Brotchi J. **Chirurgie** 1997;122(2):130–1 **(Fre)**

[A case of cystic hemangioblastoma of the medulla oblongata] Masuda A, et al. **No Shinkei Geka** 1996 Oct;24(10):949–53 (17 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

Preoperative endovascular embolization of craniospinal hemangioblastomas. Eskridge JM, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):525–31

Multiple central nervous system hemangioblastomas [letter; comment] Plowman PN. **Med Pediatr Oncol** 1997 Aug; 29(2):152–4. Comment on: Med Pediatr Oncol 1996 Feb;26(2):116–24.

Preoperative embolization of highly vascular brain tumors: clinical and histopathological findings. Kuroiwa T, et al. **Noshuyo Byori** 1996 Apr;13(1):27–36

HEMANGIOENDOTHELIOMA

Intrascrotal hemangioendothelioma in infancy. Kolligian ME, et al. **Urology** 1997 Sep;50(3):456–8

CLASSIFICATION

Reticuloendothelial haemangioendothelioma [letter] Silverman JS, et al. **Histopathology** 1997 Apr;30(4):393–4

Hemangioendothelioma: a rare vascular tumor in childhood and adolescence. Costa MA, et al. **Pediatr Hematol Oncol** 1996 Jul–Aug;13(4):333–7 (23 ref.)

COMPLICATIONS

Angiotropic lymphoma: report of a case with histiocytic features. Snowden JA, et al. **J Clin Pathol** 1997 Jan; 50(1):67–70

Spindle cell (Kaposiform) hemangioendothelioma with Kasabach–Merritt syndrome in an infant: successful treatment with alpha–2A interferon. Deb G, et al. **Med Pediatr Oncol** 1997 May;28(5):358–61

Maffucci's syndrome associated with spindle cell hemangioendothelioma. Hisaoka M, et al. **Skeletal Radiol** 1997 Mar;26(3):191–4

CONGENITAL

Hepatic hemangioendothelioma: successful treatment with steroid in a very–low–birth–weight infant. Wu TJ, et al. **Acta Paediatr Sin** 1996 Jan–Feb;37(1):56–8

Giant infantile hemangioendothelioma of the liver. Scintigraphic diagnosis. Park CH, et al. **Clin Nucl Med** 1996 Apr;21(4):293–5

Haemangioendothelioma in an infant's wrist. Chia J, et al. **J Hand Surg [Br]** 1997 Feb;22(1):119–21

[Hemangioendothelioma of the liver in an infant] Merkle EM, et al. **Rontgenpraxis** 1996 Sep;49(9):223–5 **(Ger)**

DIAGNOSIS

Interpretation of serum alpha–feto protein in an infant with hepatomegaly. Kapoor G, et al. **Indian Pediatr** 1996 Jan; 33(1):65–9

Hemangioendothelioma of the temporal bone in a child. Eliashar R, et al. **Int J Pediatr Otorhinolaryngol** 1997 May 4;40(1):67–71

Malignant hemangioendothelioma of the aorta. Shijubo N, et al. **Intern Med** 1995 Nov;34(11):1126–9 (14 ref.)

Spindle cell hemangioendothelioma: a case presentation and literature review of a rare lower extremity tumor. Patel SV, et al. **J Foot Ankle Surg** 1996 Jul–Aug;35(4):309–11 (8 ref.)

Malignant hemangioendothelioma of the left calcaneus associated with fever and hematological abnormalities. Rong Y, et al. **Skeletal Radiol** 1997 Jan;26(1):64–6

[Malignant endovascular large–cell lymphoma: disclosing central nervous system involvement confirmed by cerebral biopsy] Viguier A, et al. **Rev Med Interne** 1997;18(6):4881–4 (18 ref.) (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Spindle cell (Kaposiform) hemangioendothelioma with Kasabach–Merritt syndrome in an infant: successful treatment with alpha–2A interferon. Deb G, et al. **Med Pediatr Oncol** 1997 May;28(5):358–61

EPIDEMIOLOGY

Hemangioendothelioma: a rare vascular tumor in childhood and adolescence. Costa MA, et al. **Pediatr Hematol Oncol** 1996 Jul–Aug;13(4):333–7 (23 ref.)

METABOLISM

Endostatin: an endogenous inhibitor of angiogenesis and tumor growth. O'Reilly MS, et al. **Cell** 1997 Jan 24; 88(2):277–85

PATHOLOGY

Multiple retiform hemangioendotheliomas. A low–grade angiosarcoma. Duke D, et al. **Am J Dermatopathol** 1996 Dec;18(6):606–10

Reactive angioendotheliomatosis. Case report and review of the literature. Lazova R, et al. **Am J Dermatopathol** 1996 Feb;18(1):63–9 (26 ref.)

Dabska tumor developing within a preexisting vascular malformation. Quecedo E, et al. **Am J Dermatopathol** 1996 Jun;18(3):302–7 (14 ref.)

Polymorphous hemangioendothelioma: a report of two cases, one affecting extranodal soft tissues, and review of the literature. Nascimento AG, et al. **Am J Surg Pathol** 1997 Sep;21(9):1083–9 (8 ref.)

Spindle cell hemangioendothelioma. An analysis of 78 cases with reassessment of its pathogenesis and biologic behavior. Perkins P, et al. **Am J Surg Pathol** 1996 Oct; 20(10):1196–204 (16 ref.)

Malignant endovascular papillary angioendothelioma (Dabska tumor) arising within a deep intramuscular hemangioma. Argani P, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):992–5 (13 ref.)

Pathological case of the month. Epithelioid hemangioendothelioma (intravascular bronchioloalveolar tumor) of the lung. Roepke JE, et al. **Arch Pediatr Adolesc Med** 1997 Mar;151(3):317–9

Orthotopic liver transplantation for type 2 hepatic infantile haemangioendothelioma. Calder CI, et al. **Histopathology** 1996 Mar;28(3):271–3

Spindle and epithelioid haemangioendothelioma of the inguinal lymph nodes. Cho NH, et al. **Histopathology** 1997 Jun;30(6):595–8

Kaposiform haemangioendothelioma associated with Kasabach–Merritt syndrome. Fukunaga M, et al. **Histopathology** 1996 Mar;28(3):281–4

Reticuloendothelial haemangioendothelioma [letter] Silverman JS, et al. **Histopathology** 1997 Apr;30(4):393–4

Multifocal hemangioendothelioma of the fetus and placenta. Marton T, et al. **Hum Pathol** 1997 Jul;28(7):866–9

Bilateral adrenal lymphoma with neoplastic angioendotheliosis. Kubo M, et al. **Intern Med** 1997 Jan; 36(1):47–52

Angiotropic lymphoma diagnosed by muscle biopsy. Suzuki S, et al. **Intern Med** 1997 Apr;36(4):304–7

Ossifying epithelioid hemangioendothelioma. Kiryu H, et al. **J Cutan Pathol** 1996 Dec;23(6):558–61

Retiform hemangioendothelioma. A new case in a child with diffuse endovascular papillary endothelial proliferation. Sanz–Trelles A, et al. **J Cutan Pathol** 1997 Aug;24(7):440–4 (12 ref.)

Intracranial epithelioid hemangioendothelioma: case report. Puca A, et al. **Neurosurgery** 1996 Feb;38(2):399–401

Intravascular papillary endothelial hyperplasia: collection of four cases and a review of the literature. Werner MS, et al. **Ophthal Plast Reconstr Surg** 1997 Mar;13(1):48–56 (16 ref.)

A 52–year–old man with a pyrexia of unknown origin and multiple cavities in the right kidney [clinical conference] Cassidy M, et al. **S Afr Med J** 1997 Feb;87(2):168–71

[Retiform hemangioendothelioma] Dufau JP, et al. **Ann Pathol** 1997 Mar;17(1):47–51 (Eng. Abstr.) **(Fre)**

[Infantile hepatic hemangioendothelioma of the liver: report of 11 cases] Presedo A, et al. **Cir Pediatr** 1996 Apr;9(2):51–4 (11 ref.) (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

[Radiological case of the month. Neonatal hepatic hemangioendothelioma] Klosowski S, et al. **Arch Pediatr** 1997 Apr;4(4):367–9 **(Fre)**

[Diagnosis of neonatal liver hemangioma] Kis E, et al. **Orv Hetil** 1997 Aug 17;138(33):2061–4 (Eng. Abstr.) **(Hun)**

RADIONUCLIDE IMAGING

Giant infantile hemangioendothelioma of the liver. Scintigraphic diagnosis. Park CH, et al. **Clin Nucl Med** 1996 Apr;21(4):293–5

SURGERY

Orthotopic liver transplantation for type 2 hepatic infantile haemangioendothelioma. Calder CI, et al. **Histopathology** 1996 Mar;28(3):271–3

Recurrent intravascular papillary endothelial hyperplasia. Katzman B, et al. **J Hand Surg [Br]** 1997 Feb;22(1):113–5

Extravascular papillary endothelial hyperplasia following surgery for De Quervain's disease. Rampoldi M, et al. **J Hand Surg [Br]** 1997 Feb;22(1):116–8

Unresectable hepatic tumors in childhood and the role of liver transplantation. Achilleos OA, et al. **J Pediatr Surg** 1996 Nov;31(11):1563–7

Angiosarcoma of the liver in children. Awan S, et al. **J Pediatr Surg** 1996 Dec;31(12):1729–32

Uterine polypoid hemangioendothelioma: conservative treatment. Peterson CM, et al. **Lasers Surg Med** 1996; 18(2):206–9

Pediatric intracranial hemangioendotheliomas: case report. Chen TC, et al. **Neurosurgery** 1997 Feb;40(2):410–4 (22 ref.)

[Angiosarcoma of the hand. Case report] Baranowski D, et al. **Handchir Mikrochir Plast Chir** 1997 May;29(3):147–52; discussion 153 (Eng. Abstr.) **(Ger)**

[Surgical treatment of malignant hemangioendothelioma originated from the right atrium: a case report] Ichikawa H, et al. **Kyobu Geka** 1997 Jan;50(1):67–70 (Eng. Abstr.) **(Jpn)**

THERAPY

Hepatic haemangioendothelioma presenting with early heart failure in a newborn: treatment with hepatic artery embolization and interferon. Fok TF, et al. **Acta Paediatr** 1996 Nov;85(11):1373–5

Hepatic hemangioendothelioma of infancy: treatment with interferon alpha. Woltering MC, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):348–51

VIROLOGY

Absence of Kaposi's sarcoma–associated herpesvirus–like DNA sequences in malignant vascular tumors of the serous membranes. Lin BT, et al. **Mod Pathol** 1996 Dec; 9(12):1143–6

No role for human herpes virus 8 in the etiology of infantile capillary hemangioma. Smoller BR, et al. **Mod Pathol** 1997 Jul;10(7):675–8

HEMANGIOENDOTHELIOMA, EPITHELIOID

Benign vascular tumours of the Mediastinum: presentation of three cases and review of the literature. Mineo TC, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):361–4

[Epithelioid hemangioendothelioma] Yamamoto H, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):297–9 (12 ref.) **(Jpn)**

COMPLICATIONS

Mediastinal epithelioid hemangioendothelioma in a patient with type IV Ehlers–Danlos syndrome: a case report and review of the literature. Begbie SD, et al. **Am J Clin Oncol** 1997 Aug;20(4):412–5 (21 ref.)

Haemoptysis and rapid onset respiratory failure in a patient with pulmonary epithelioid haemangioendothelioma [letter] Gabbay E, et al. **Aust N Z J Med** 1996 Oct;26(5):712–3

Alveolar haemorrhage revealing epithelioid haemangioendothelioma. Briens E, et al. **Respir Med** 1997 Feb;91(2):111–4

DIAGNOSIS

Immunohistochemical study of epithelioid hemangioendothelioma in the leg: a case report. Liang S, et al. **Acta Med Okayama** 1996 Oct;50(5):279–83

MR demonstration of right atrial involvement in multifocal epithelioid hemangioendothelioma. Bisesi MA, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):953–4

Cytology of epithelioid hemangioendothelioma [letter; comment] Chen KT. **Diagn Cytopathol** 1996 Mar; 14(2):187–8. Comment on: Diagn Cytopathol 1994;11(1):64–7.

Epithelioid hemangioendothelioma of the lumbar vertebral column: case report and review of literature. Ellis TS, et al. **Neurosurgery** 1996 Feb;38(2):402–7 (51 ref.)

Epithelioid hemangioendothelioma of bone. Tillman RM, et al. **Orthopedics** 1997 Feb;20(2):177–80

DRUG THERAPY

Case report: successful palliative treatment with intraperitoneal OK–432 injection for epithelioid haemangioendothelioma presenting with intractable ascites. Wei SC, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):39–43

Successful medical treatment of an epithelioid hemangioendothelioma of liver. Idilman R, et al. **Oncology** 1997 Mar–Apr;54(2):171–5

[Case of liver epithelioid hemangioendothelioma treated with percutaneous ethanol infusion] Shiro Y, et al.

HEMANGIOENDOTHELIOMA, EPITHELIOID

Nippon Naika Gakkai Zasshi 1996 Jun 10;85(6):933–5 **(Jpn)**

GENETICS

Complex translocation [7;22] identified in an epithelioid hemangioendothelioma. Boudousquie AC, et al. **Cancer Genet Cytogenet** 1996 Dec;92(2):116–21

PATHOLOGY

Cytologic evaluation of primary malignant vascular tumors of the liver. One case each of angiosarcoma and epithelioid hemangioendothelioma. Cho NH, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1468–76

Hepatic epithelioid hemangioendothelioma: biological questions based on pattern of recurrence in an allograft and tumor immunophenotype. Demetris AJ, et al. **Am J Surg Pathol** 1997 Mar;21(3):263–70

Epithelioid hemangioendothelioma of bone. Kleer CG, et al. **Am J Surg Pathol** 1996 Nov;20(11):1301–11

Epithelioid hemangioendothelioma of skin and soft tissues: clinicopathologic and immunohistochemical study of 30 cases. Mentzel T, et al. **Am J Surg Pathol** 1997 Apr; 21(4):363–74

Epithelioid hemangioendothelioma of the liver. A rare hepatic tumor. Läuffer JM, et al. **Cancer** 1996 Dec 1; 78(11):2318–27 (68 ref.)

Complex translocation [7;22] identified in an epithelioid hemangioendothelioma. Boudousquie AC, et al. **Cancer Genet Cytogenet** 1996 Dec;92(2):116–21

Cytology of epithelioid hemangioendothelioma [letter; comment] Chen KT. **Diagn Cytopathol** 1996 Mar; 14(2):187–8. Comment on: Diagn Cytopathol 1994;11(1):64–7.

Cytopathologic features of hepatic epithelioid hemangioendothelioma. Soslow RA, et al. **Diagn Cytopathol** 1997 Jul;17(1):50–3

Epithelioid hemangioendothelioma in pleural fluid [letter] Walts A. **Diagn Cytopathol** 1997 Apr;16(4):372–4

Primary epithelioid haemangioendothelioma of the peritoneum: an unusual mimic of diffuse malignant mesothelioma. Attanoos RL, et al. **Histopathology** 1997 Apr;30(4):375–7

Spindle and epithelioid haemangioendothelioma of the inguinal lymph nodes. Cho NH, et al. **Histopathology** 1997 Jun;30(6):595–8

Epithelioid haemangioma (benign haemangioendothelioma of bone)--a case report. Madhuri V, et al. **Indian J Cancer** 1996 Dec;33(4):173–7

Isolated cutaneous epithelioid hemangioendothelioma. Polk P, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):1026–8

Epithelioid hemangioendothelioma of the lumbar vertebral column: case report and review of literature. Ellis TS, et al. **Neurosurgery** 1996 Feb;38(2):402–7 (51 ref.)

Epithelioid hemangioendothelioma of the lung. Corrin B, et al. **Ultrastruct Pathol** 1996 Jul–Aug;20(4):345–7

[Pulmonary epithelioid hemangioendothelioma (or IVBAT). Report of a case of exclusively myxoid form] Lantuéjoul S, et al. **Ann Pathol** 1997 Apr;17(2):120–2 (Eng. Abstr.) **(Fre)**

[Paratesticular epithelioid hemangioendothelioma: an infrequent vascular tumor] López Cubillana P, et al. **Actas Urol Esp** 1996 Jun;20(6):591–2 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

A 63-year-old woman with weight loss and multiple lung nodules. Erasmus JJ, et al. **Chest** 1997 Jan;111(1):236–8

SECONDARY

Epithelioid hemangioendothelioma of the lung. Corrin B, et al. **Ultrastruct Pathol** 1996 Jul–Aug;20(4):345–7

SURGERY

Epithelioid haemangioendothelioma of the liver: report of a case submitted to orthotopic liver transplantation. Debernardi Venon W, et al. **Ital J Gastroenterol** 1996 Jan; 28(1):28–30

HEMANGIOMA

Cutaneous hemangiomas, vascular stains and malformations, and associated syndromes. Esterly NB. **Curr Probl Pediatr** 1996 Jan;26(1):3–39 (272 ref.)

A rare case of McCune-Albright syndrome associated with glaucoma retinal degeneration and arteriovenous malformations [letter] Scuderi G, et al. **Eye** 1996;10 (Pt 6):752–5

Contrasting strategic approaches to the management of subglottic hemangiomas. Froehlich P, et al. **Int J Pediatr Otorhinolaryngol** 1996 Jul;36(2):137–46 (30 ref.)

Cobb syndrome [letter] Basappa. **J Assoc Physicians India** 1996 Nov;44(11):846

Urethral hemangioma: case report. Hayashi T, et al. **J Urol** 1997 Aug;158(2):539–40 (3 ref.)

Superficial hemangiomas: associations and management. Enjolras O, et al. **Pediatr Dermatol** 1997 May–Jun; 14(3):173–9

Intramuscular haemangioma of the chest wall. A case report. Tatlis A, et al. **S Afr J Surg** 1996 Aug;34(3):143–5

Hepatic hemangioma: a review. Iqbal N, et al. **Tex Med** 1997 May;93(5):48–50 (24 ref.)

[Hepatic hemangioma: diagnosis and treatment] De Blasio R, et al. **Ann Ital Chir** 1996 Mar–Apr;67(2):233–7; discussion 237–8 (Eng. Abstr.) **(Ita)**

[Anesthetic problems in a very low birth weight infant with Kasabach-Merritt syndrome] Mizushima A, et al. **Masui** 1996 Aug;45(8):1009–14 (Eng. Abstr.) **(Jpn)**

[Hemangioma, angiosarcoma] Fukushige J. **Ryoikibetsu Shokogun Shirizu** 1996;(14):455–7 (10 ref.) **(Jpn)**

[Benign pericardial tumor (angioma, lipoma, teratoma)] Natsume T. **Ryoikibetsu Shokogun Shirizu** 1996;(14):295–6 (5 ref.) **(Jpn)**

[Hemangioma of the heart, angiosarcoma of the heart] Tadehara F, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (14):237–40 (19 ref.) **(Jpn)**

[Hemangioma and vascular malformations. Diagnosis and treatment] Roald HE, et al. **Tidsskr Nor Laegeforen** 1997 Apr 20;117(10):1480–2 (14 ref.) (Eng. Abstr.) **(Nor)**

BLOOD SUPPLY

Effects of AMI-25 on liver vessels and tumors on T1-weighted turbo-field-echo images: implications for tumor characterization. van Gansbeke D, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):482–9

CLASSIFICATION

[New terminology for peripheral vascular malformations. A stringent classification is of advantage for the overall view] Tovi M. **Lakartidningen** 1997 Jun 18;94(25):2373–5 **(Swe)**

COMPLICATIONS

Hemangiomas of the head, neck, and chest with associated vascular and brain anomalies: a complex neurocutaneous syndrome. Pascual-Castroviejo I, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):461–71

Coexistent orbital and cerebellar venous anomalies in linear sebaceous naevus syndrome. Seawright AA, et al. **Aust N Z J Ophthalmol** 1996 Nov;24(4):373–6

Skeletal haemangiomatosis presenting with spinal cord compression--postoperative management of progressive disease [letter; comment] Plowman PN. **Br J Radiol** 1997 Apr;70:429–31. Comment on: Br J Radiol 1996 Oct;69(826):965–7.

Hydrops fetalis due to placental chorioangioma: report of one case. Wang LH, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Mar–Apr;38(2):155–8

A case of Cobb syndrome associated with lymphangioma circumscriptum. Shim JH, et al. **Dermatology** 1996; 193(1):45–7 (11 ref.)

Chorangioma of the placenta with hydrops fetalis. Sabhikhi AK, et al. **Indian Pediatr** 1996 Jun;33(6):520–1

Choroidal folds associated with a sellar mass. Söylev MF, et al. **Int Ophthalmol** 1996–97;20(5):259–61

Extensive facial strawberry mark associated with cerebellar hypoplasia and vascular abnormalities. Matsui T, et al. **J Dermatol** 1997 Feb;24(2):113–6

Hemangioma of the uterus associated with hereditary hemorrhagic telangiectasia. Shanberge JN. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):708–10 (13 ref.)

Perineal and lip ulcerations as the presenting manifestation of hemangioma of infancy. Liang MG, et al. **Pediatrics** 1997 Feb;99(2):256–9

Bladder hemangioma as a cause of massive hematuria in a child. A case report and literature review. Mor Y, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):305–7

[Giant hepatic hemangioma causing dilatation of the intrahepatic biliary ducts] Issahar-Zadeh A, et al. **J Radiol** 1997 May;78(5):381–4 (Eng. Abstr.) **(Fre)**

[Recurrent angina pectoris in stress caused by hemangioma of the heart] Wahba A, et al. **Z Kardiol** 1997 Jul;86(7):545–8 (Eng. Abstr.) **(Ger)**

[Congenital subfold hemangioma in combination with hemangiomatosis of the head, face and neck] Vodolazov SI, et al. **Vestn Otorinolaringol** 1996 Sep–Oct;(5):35–6 (Eng. Abstr.) **(Rus)**

CONGENITAL

Infantile subglottic hemangioma: a review and presentation of two cases of surgical excision. Phipps CD, et al. **Int J Pediatr Otorhinolaryngol** 1997 Jul 18;41(1):71–9 (20 ref.)

Extensive facial hemangioma associated with cardiac and abdominal anomalies. Patel SD, et al. **J Am Acad Dermatol** 1997 Apr;36(4):636–8

Congenital hemangioma: evidence of accelerated involution. Boon LM, et al. **J Pediatr** 1996 Mar;128(3):329–35

Successful interferon therapy in a neonate with life-threatening Kasabach-Merritt syndrome. Nako Y, et al. **J Perinatol** 1997 May–Jun;17(3):244–7

Congenital hepatic hemangioma in the neonate. Kane JW, et al. **MCN Am J Matern Child Nurs** 1997 Jul–Aug; 22(4):187–93

DIAGNOSIS

Clinical evaluation of ultrasmall superparamagnetic iron oxide particles for liver imaging. Saini S, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S409–12

Optimal MR protocol for hepatic hemangiomas. Comparison of conventional spin-echo sequences with T2-weighted turbo spin-echo and serial gradient-echo (FLASH) sequences with gadolinium enhancement. Kim TK, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):565–71

Vanishing tumor of the temporalis muscle: repeated hemorrhage in an intramuscular venous hemangioma. Itosaka H, et al. **AJNR Am J Neuroradiol** 1997 May; 18(5):983–5

Venous hemangioma of the mesocolon [letter] Kinoshita T, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):600–1

Cavernous hemangiomas of the liver: enlargement over time. Nghiem HV, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):137–40

A case of bilateral cavernous hemangioma associated with intracerebral hemangioma. Bell D, et al. **Arch Ophthalmol** 1997 Jun;115(6):818–9

Imaging quiz case 2. Facial nerve hemangioma. Hoffman M, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul;123(7):763, 765–6 (8 ref.)

Racemose haemangioma of the iris [letter] Shields JA, et al. **Br J Ophthalmol** 1996 Aug;80(8):770–1

Case report: sclerotic skeletal haemangiomatosis presenting with spinal cord compression—CT and MRI findings [see comments] Chrysikopoulos H, et al. **Br J Radiol** 1996 Oct; 69(826):965–7. Comment in: Br J Radiol 1997 Apr;70:429–31.

Capillary-venous malformation in the labia majora in a 12-year-old girl. Kempinaire A, et al. **Dermatology** 1997; 194(4):405–7

Facial nerve angioma. Pulec JL. **Ear Nose Throat J** 1996 Apr;75(4):225–38

Enhancement characteristics of liver metastases, hepatocellular carcinomas, and hemangiomas with Gd-EOB-DTPA: preliminary results with dynamic MR imaging. Reimer P, et al. **Eur Radiol** 1997;7(2):275–80

Primary benign haemangioma of the right ventricle. Airan B, et al. **Indian Heart J** 1996 Jul–Aug;48(4):405–6

An unusual case of benign neonatal hemangiomatosis mimicking juvenile xanthogranuloma [letter] Kuniyuki S. **Int J Dermatol** 1997 Apr;36(4):316–7

Case report. Pericardial hemangioma. Brodwater B, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):954–6 (8 ref.)

The diagnostic accuracy/efficacy of MRI in differentiating hepatic hemangiomas from metastatic colorectal/breast carcinoma: a multiple reader ROC analysis using a jackknife technique. Lee MG, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):905–13

Effects of AMI-25 on liver vessels and tumors on T1-weighted turbo-field-echo images: implications for tumor characterization. van Gansbeke D, et al. **J Magn Reson Imaging** 1997 May–Jun;7(3):482–9

Paraneoplastic opsoclonus associated with cancer of the gall bladder [letter] Corcia P, et al. **J Neurol Neurosurg Psychiatry** 1997 Mar;62(3):293

Cellular hemangioma of the posterior mediastinum: unusual presentation of a rare vascular neoplasm. Parker JR, et al. **J Okla State Med Assoc** 1997 Jan;90(1):7–9 (8 ref.)

Synovial hemangioma of the knee. Price NJ, et al. **J Pediatr Orthop** 1997 Jan–Feb;17(1):74–7 (21 ref.)

Hemangioma of the umbilical cord mimicking an omphalocele. Miller KA, et al. **J Pediatr Surg** 1997 Jun; 32(6):810–2

Sternal hemangioma: a rare tumor. Medalion B, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1402–3

Hepatic hemangiomas. Semelka RC, et al. **Magn Reson Imaging Clin N Am** 1997 May;5(2):241–53 (27 ref.)

Multiple calvarial cavernous haemangiomas: case report and review of the literature. Kumar NA, et al. **Neuroradiology** 1996 May;38 Suppl 1:S83–5 (10 ref.)

Intradiploic haemangioma associated with epidural haematoma. Uemura K, et al. **Neuroradiology** 1996 Jul; 38(5):456–7

Hemangioma of the ciliary body: a case report and review of the literature. Isola VM. **Ophthalmologica** 1996; 210(4):239–43 (14 ref.)

Radiologic case study. Intramuscular hemangioma. Maki DD, et al. **Orthopedics** 1996 Oct;19(10):916, 907–9

Malignant rhabdoid tumor presenting as a hemangioma. Albregts AE, et al. **Pediatr Dermatol** 1996 Nov–Dec; 13(6):468–71

A deep-tissue hemangioma presenting as a rapidly progressive expanding mass and thrombocytopenia in an infant. Ward DG, et al. **Pediatr Emerg Care** 1996 Dec; 12(6):422–4

Pulmonary sclerosing hemangioma: report of a case with emphasis on dynamic MR imaging findings. Nakanishi K, et al. **Radiat Med** 1997 Mar–Apr;15(2):117–9

Differentiation of liver hemangiomas from metastases and hepatocellular carcinoma at MR imaging enhanced with blood-pool contrast agent Code-7227. Harisinghani MG, et al. **Radiology** 1997 Mar;202(3):687–91

Splenic hemangiomas and hamartomas: MR imaging characteristics of 28 lesions. Ramani M, et al. **Radiology** 1997 Jan;202(1):166–72

Focal liver lesions: fast T2-weighted MR imaging with half-Fourier rapid acquisition with relaxation enhancement. Van Hoe L, et al. **Radiology** 1996 Dec; 201(3):817–23

Indocyanine green angiography of circumscribed choroidal hemangiomas. Piccolino FC, et al. **Retina** 1996;16(1):19–28

Clinics in diagnostic imaging (20). Masseter muscle

haemangioma. Yang WT. **Singapore Med J** 1996 Dec; 37(6):659–62

Hemangioma of the temporal bone in a patient presumed to have Ménière's syndrome. Burton L, et al. **South Med J** 1997 Jul;90(7):736–9

Intercostal hemangioma. Ono N, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):324–5

[The testicular feminization syndrome combined with disseminated hemangiomatosis] Nedkova V, et al. **Akush Ginekol (Sofiia)** 1996;35(4):35–7 (Eng. Abstr.) **(Bul)**

[Vertebral hemangioma symptomatic during pregnancy. A case report and review of the literature] Abi-Fadel W, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(1):90–4 (20 ref.) (Eng. Abstr.) **(Fre)**

[Imaging of symptomatic giant hemangioma] Bouras T, et al. **J Radiol** 1996 Nov;77(11):1145–8 (Eng. Abstr.) **(Fre)**

[Intramuscular hemangioma. Contribution of MRI] Sans N, et al. **J Radiol** 1997 Jan;78(1):65–8 (Eng. Abstr.) **(Fre)**

[Diagnostic imaging of hemangiomas of the liver] Müller MJ, et al. **Rontgenpraxis** 1996 Dec;49(12):305–8 **(Ger)**

[Space-occupying lesions in the liver—rational step-wise diagnosis] Brambs HJ. **Schweiz Rundsch Med Prax** 1996 Nov 19;85(47):1518–23 (Eng. Abstr.) **(Ger)**

[Intrapericardial angioma adhering to the trunk of the pulmonary artery. Diagnostic value of computerized axial tomography] Minutiello L. **Minerva Cardioangiol** 1996 Jun; 44(6):319–23 (Eng. Abstr.) **(Ita)**

[Angiomas of the maxillofacial area: a clinical study with MR and angio-MR] Cortese A, et al. **Minerva Stomatol** 1996 Sep;45(9):415–9 (Eng. Abstr.) **(Ita)**

[Primary orbital tumors in children] Składzień J, et al. **Otolaryngol Pol** 1996;50(1):32–6 (Eng. Abstr.) **(Pol)**

[Hepatic hemangioma. Analysis of 103 cases. Clinical considerations and imaging methods] Genzini T, et al. **Arq Gastroenterol** 1995 Oct-Dec;32(4):162–7 (Eng. Abstr.) **(Por)**

[Hepatic hemangioma—an increasing diagnostic problem in clinical practice (editorial)] Parise ER. **Arq Gastroenterol** 1995 Oct-Dec;32(4):159–61 **(Por)**

[Hemangioma of the right ventricle] Caires G, et al. **Rev Port Cardiol** 1997 Jun;16(6):561–7 (17 ref.) (Eng. Abstr.) **(Por)**

[Diagnosis and surgical policy in benign lesions of liver] Malinovskii NN, et al. **Khirurgiia (Mosk)** 1997;(2):21–3 (7 ref.) (Eng. Abstr.) **(Rus)**

[Benign neoplasms of the urethra in men] Segal AS, et al. **Urol Nefrol (Mosk)** 1996 May-Jun;(3):39–42 (Eng. Abstr.) **(Rus)**

[Thrombocytopenia with multiple internal and cutaneous tumors] Vallina E, et al. **Rev Clin Esp** 1996 Dec; 196(12):863–5 **(Spa)**

DRUG THERAPY

Megadose methylprednisolone for Kasabach-Merritt syndrome [letter; comment] Ozsoylu S. **Eur J Pediatr** 1996 Feb;155(2):149–50. Comment on: Eur J Pediatr 1995 May;154(5):365–8.

A new treatment with bleomycin for complicated cutaneous hemangioma in children. Sarihan H, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):158–62

Local steroid therapy in cutaneous hemangiomas. Gangopadhyay AN, et al. **Indian Pediatr** 1996 Jan; 33(1):31–3

Role of steroid in childhood haemangioma: a 10 years review. Gangopadhyay AN, et al. **Int Surg** 1997 Jan-Mar; 82(1):49–51

[High dose oral prednisone for hemangiomas in infants] Sadan N, et al. **Harefuah** 1997 May 15;132(10):684–91, 744 (Eng. Abstr.) **(Heb)**

[Infantile laryngeal hemangioma: conservative treatment with corticoids] Delgado Moreno F, et al. **An Esp Pediatr** 1996 Aug;45(2):221–4 **(Spa)**

EPIDEMIOLOGY

[Primary orbital tumors in children] Składzień J, et al. **Otolaryngol Pol** 1996;50(1):32–6 (Eng. Abstr.) **(Pol)**

ETIOLOGY

[Choroidal angioma and Sturge-Weber syndrome] Bacin F, et al. **J Fr Ophtalmol** 1997;20(5):405–7 **(Fre)**

GENETICS

Deletion of PTEN in a patient with Bannayan-Riley-Ruvalcaba syndrome suggests allelism with Cowden disease. Arch EM, et al. **Am J Med Genet** 1997 Sep 5;71(4):489–93

Hemangioma in twins. Cheung DS, et al. **Ann Plast Surg** 1997 Mar;38(3):269–74

IMMUNOLOGY

Increased circulating transforming growth factor beta1 in a patient with giant hepatic hemangioma: possible contribution to an impaired immune function. Ito N, et al. **Hepatology** 1997 Jan;25(1):93–6

IL-6 is an in vitro and in vivo autocrine growth factor for middle T antigen-transformed endothelial cells. Giraudo E, et al. **J Immunol** 1996 Sep 15;157(6):2618–23

METABOLISM

Vascular endothelial growth factor confers a growth advantage in vitro and in vivo to stromal cells cultured from neonatal hemangiomas. Berard M, et al. **Am J Pathol** 1997 Apr;150(4):1315–26

Monocyte chemoattractant protein-1 mRNA expression in hemangiomas and vascular malformations. Isik FF, et al. **J Surg Res** 1996 Feb 15;61(1):71–6

PATHOLOGY

Littoral cell angioma in a patient with Epstein syndrome. Sallah S, et al. **Acta Haematol** 1997;98(2):113–5

Remote hemorrhage of a pontine cavernous angioma fifty-two years after cerebral irradiation. Bejjani GK, et al. **Acta Neurochir (Wien)** 1997;139(6):583–4

Large chorioangioma: antenatal color-flow Doppler ultrasonic imaging and its correlation with postpartum pathology. Experience of two cases. Kung FT, et al. **Acta Obstet Gynecol Scand** 1997 Mar;76(3):277–9

Arteriovenous hemangioma of the gallbladder: CT and pathologic findings [letter] Furukawa H, et al. **AJR Am J Roentgenol** 1997 May;168(5):1383

Intravascular large cell lymphoma coexisting within hemangiomas of the skin. Rubin MA, et al. **Am J Surg Pathol** 1997 Jul;21(7):860–4

Giant hemangioma in infant. A case presentation and literature review. Malamou-Mitsi VD, et al. **Arch Anat Cytol Pathol** 1996;44(4):199–201 (14 ref.)

Tufted angioma: is it the same as angioblastoma (Nakagawa)? [letter; comment] Cho KH. **Arch Dermatol** 1997 Jun; 133(6):789. Comment on: Arch Dermatol 1996 Jun;132(6):703–4, 706–7.

Depression associated with pontine vascular malformation. Klein P, et al. **Biol Psychiatry** 1997 Sep 15;42(6):519–21

Intra-axial endophytic tumors in the pons and/or medulla oblongata. II. Intraoperative findings, postoperative results, and 2-year follow up in 25 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):135–46

Clinical evaluation of cutaneous lesions of the back: spinal signatures that do not go away. Humphreys RP. **Clin Neurosurg** 1996;43:175–87 (6 ref.)

Angiomyomatous hamartoma of a cervical lymph node combined with haemangiomatoids and vascular transformation of sinuses. Laeng RH, et al. **Histopathology** 1996 Jul;29(1):80–4

Malignant peripheral nerve sheath tumour with vascular differentiation: a report of four cases. Morphopoulos GD, et al. **Histopathology** 1996 May;28(5):401–10 (41 ref.)

Diffuse venous synovial haemangioma arising from the knee joint. Munshi PK, et al. **Indian J Med Sci** 1995 Jun; 49(6):142–3

Epithelioid hemangiomas of the maxillofacial area. A report of three cases and a review of the literature. Martín-Granizo R, et al. **Int J Oral Maxillofac Surg** 1997 Jun;26(3):212–4 (10 ref.)

Metastatic tufted angioma. Penson R, et al. **Int J STD AIDS** 1997 Aug;8(8):530–1

Disseminated cutaneous epithelioid hemangioma. Kanik AB, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 2):851–3

An unique tumour of the geniohyoid muscle: an intramuscular haemangioma. Harar RP, et al. **J Laryngol Otol** 1997 Aug;111(8):769–71 (14 ref.)

Haemangioma of the maxillary sinus. Raboso E, et al. **J Laryngol Otol** 1997 Jul;111(7):638–40 (11 ref.)

Hemifacial spasm caused by a venous angioma. Case report. Chen HJ, et al. **J Neurosurg** 1996 Oct;85(4):716–7

Cavernous angioma of the diencephalon. Zotta D, et al. **J Neurosurg Sci** 1995 Sep;39(3):159–63

Epithelioid hemangioma of small tubular bones: a report of three cases, two of them associated with pregnancy. Lamovec J, et al. **Mod Pathol** 1996 Aug;9(8):821–7

Sinus pericranii associated with a cerebellar venous angioma—case report. Sakai K, et al. **Neurol Med Chir (Tokyo)** 1997 Jun;37(6):464–7

Indurated purple-red plaque [clinical conference] Francis JS, et al. **Pediatr Dermatol** 1997 Jan-Feb;14(1):53–5

Liver hemangioma: US-guided 18-gauge core-needle biopsy. Heilo A, et al. **Radiology** 1997 Sep;204(3):719–22

Epithelioid haemangioma of the heart. de Nictolis M, et al. **Virchows Arch** 1996 May;428(2):119–23

[Ovarian angioma. Report of 3 asymptomatic cases] Rivasi F, et al. **Ann Pathol** 1996 Dec;16(6):439–41 (Eng. Abstr.) **(Fre)**

[A case of giant cavernous hemangioma of the retroperitoneum] Bellini F, et al. **Minerva Chir** 1996 Oct; 51(10):867–70 (14 ref.) (Eng. Abstr.) **(Ita)**

[Intramuscular hemangioma. Report of a case] Cristallini EG, et al. **Pathologica** 1997 Feb;89(1):59–61 (Eng. Abstr.) **(Ita)**

[Hemo-lymphangioma of the scrotum: a case report] Koizumi S, et al. **Hinyokika Kiyo** 1997 Apr;43(4):307–9 (Eng. Abstr.) **(Jpn)**

[Subglottic hemangioma as a rare cause of dyspnea in infants] Czubkowska I, et al. **Pediatr Pol** 1996 Jun;71(6):559–65 (Eng. Abstr.) **(Pol)**

[Hemangioma of the tympanic cavity in a patient with chronic suppurative otitis media] Sluchanko AP, et al. **Vestn Otorinolaringol** 1996 Nov-Dec;(6):45 **(Rus)**

[Racemose angioma of the nervous system: tumor or ontogenic defect?] Matsko DE, et al. **Vopr Onkol** 1996; 42(6):91–6 (25 ref.) **(Rus)**

[Infantile laryngeal hemangioma: conservative treatment with corticoids] Delgado Moreno F, et al. **An Esp Pediatr** 1996 Aug;45(2):221–4 **(Spa)**

[Venous hemangioma of the mediastinum: apropos of a case] Vázquez Oliva R, et al. **An Med Interna** 1995 Aug; 12(8):388–90 (20 ref.) (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Aqueduct compression from venous angioma: MR findings. Blackmore CC, et al. **AJNR Am J Neuroradiol** 1996 Mar; 17(3):458–60

Flow characteristics of soft-tissue vascular anomalies evaluated by direct puncture scintigraphy. Inoue Y, et al. **Eur J Nucl Med** 1997 May;24(5):505–10

RADIOGRAPHY

Iodized-oil retention within hepatic hemangioma: characteristics on iodized-oil CT. Moon WK, et al. **Abdom Imaging** 1996 Sep-Oct;21(5):420–6

Arteriovenous hemangioma of the gallbladder: CT and pathologic findings [letter] Furukawa H, et al. **AJR Am J Roentgenol** 1997 May;168(5):1383

Case quiz. Peh WC, et al. **Australas Radiol** 1996 Feb; 40(1):91–3

Esophageal hemangioma. Ghiatas AA, et al. **Eur Radiol** 1997; 7(7):1062–3

Differential diagnosis of early homogeneously enhancing hepatocellular carcinoma and hemangioma by two-phase CT. Hanafusa K, et al. **J Comput Assist Tomogr** 1997 May-Jun;21(3):361–8

Haemangioma of the zygoma: case report. Pinna V, et al. **Neuroradiology** 1997 Mar;39(3):216–8

Unusual frontal osteoma, mimicking a haemangioma. Saraç K, et al. **Neuroradiology** 1996 Jul;38(5):458–9

Diagnosis of subglottic hemangioma by chest CT. Chetty A, et al. **Pediatr Pulmonol** 1997 Jun;23(6):464–7 (6 ref.)

Clinics in diagnostic imaging (25). Aggressive vertebral haemangioma. Griffith JF, et al. **Singapore Med J** 1997 May;38(5):226–30

[Estimation of radiation exposure in interventional neuroradiology of the head in children compared to exposure of adult patients] Hentschel F, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):176–80 (Eng. Abstr.) **(Ger)**

[Diagnosis of neonatal liver hemangioma] Kis E, et al. **Orv Hetil** 1997 Aug 17;138(33):2061–4 (Eng. Abstr.) **(Hun)**

RADIONUCLIDE IMAGING

The value of renal scintigraphy in the conservative management of a patient with tuberous sclerosis. Bongers V, et al. **Clin Nucl Med** 1997 Mar;22(3):176–8

Liver hemangioma. A perioperative Tc-99m RBC SPECT correlation. Krausz Y, et al. **Clin Nucl Med** 1997 Jan; 22(1):35–7

Appearance of a hepatic hemangioma on prostate immunoscintigraphy. Value of early images. Krynyckyi BR, et al. **Clin Nucl Med** 1996 Jul;21(7):541–3

The use of three-phase scintigraphy for diagnosing hemangiomas of the extremities. A clinical evaluation. Murata Y, et al. **Clin Nucl Med** 1997 Jun;22(6):372–5

Three-phase Tc-99m labeled RBC scintigraphy of a splenic hemangioma. Phillpott J, et al. **Clin Nucl Med** 1997 Mar; 22(3):158–60

False-positive results for hepatic hemangioma on Tc-99m RBC SPECT caused by a liver metastasis from small-cell lung carcinoma. Shih WJ, et al. **Clin Nucl Med** 1996 Nov; 21(11):898–9

Flow characteristics of soft-tissue vascular anomalies evaluated by direct puncture scintigraphy. Inoue Y, et al. **Eur J Nucl Med** 1997 May;24(5):505–10

Perfusion and blood-pool scintigraphy in the evaluation of head and neck hemangiomas. Murata Y, et al. **J Nucl Med** 1997 Jun;38(6):882–5

Distinguishing small hepatic hemangiomas from vascular liver metastases in gastrinoma: use of a somatostatin-receptor scintigraphic agent. Termanini B, et al. **Radiology** 1997 Jan;202(1):151–8

[Diagnosis of hepatic angiomas and 99m-Tc labeled red cells scintigraphy] Zerbib E, et al. **J Radiol** 1996 Sep;77(9):683–5 (11 ref.) **(Fre)**

[Importance of iterative reconstruction ISA in the diagnosis of liver hemangioma] Meller J, et al. **Nuklearmedizin** 1997 Mar;36(2):65–70 (Eng. Abstr.) **(Ger)**

RADIOTHERAPY

External radiotherapy for circumscribed choroidal haemangiomas using a modified retinoblastoma technique. Eide N, et al. **Acta Ophthalmol Scand** 1995 Dec; 73(6):547–50

Radiotherapy for ocular angiomas [editorial; comment] Plowman PN, et al. **Br J Ophthalmol** 1997 Apr;81(4):258–9 . Comment on: Br J Ophthalmol 1997 Apr;81(4):267–73.

Long-term results after low dose ocular irradiation for choroidal haemangiomas [see comments] Schilling H, et al. **Br J Ophthalmol** 1997 Apr;81(4):267–73. Comment in: Br J Ophthalmol 1997 Apr;81(4):258.

A clinical study of radiation cataract formation in adult life following gamma irradiation of the lens in early childhood [see comments] Wilde G, et al. **Br J Ophthalmol** 1997 Apr;

81(4):261–6. Comment in: Br J Ophthalmol 1997 Apr;81(4):257.

Laser treatment of complicated head and neck hemangiomas in infancy. Chang CJ, et al. **Chang Keng I Hsueh** 1996 Jun; 19(2):135–41

Radiation therapy for choroidal and retinal hemangiomas. Augsburger JJ, et al. **Front Radiat Ther Oncol** 1997; 30:265–80 (19 ref.)

Outcome of radiation therapy for patients with Kasabach–Merritt syndrome. Mitsuhashi N, et al. **Int J Radiat Oncol Biol Phys** 1997 Sep 1;39(2):467–73

Response of cavernous sinus hemangioma to radiotherapy: a case report. Jamjoom AB. **Neurosurg Rev** 1996; 19(4):261–4

Radiotherapy in the treatment of symptomatic vertebral hemangiomas: technical case report. Bremnes RM, et al. **Neurosurgery** 1996 Nov;39(5):1054–8 (37 ref.)

Intracranial tumors after radium treatment for skin hemangioma during infancy—a cohort and case–control study. Karlsson P, et al. **Radiat Res** 1997 Aug;148(2):161–7

Radiotherapy in the maxillary hemangioma. Rovirosa A, et al. **Tumori** 1996 Nov–Dec;82(6):610–3

[Outcome of radiotherapy of choroid hemangioma] Wiegel T. **Strahlenther Onkol** 1997 Jun;173(6):339–40 **(Ger)**

[The efficacy of radiotherapy in vertebral hemangiomas] Winkler C, et al. **Strahlenther Onkol** 1996 Dec; 172(12):681–4 (Eng. Abstr.) **(Ger)**

[Ionizing irradiation as a risk factor in thyroid cancer. A case report] Pichi Graziani M, et al. **Minerva Chir** 1996 May;51(5):355–8 (Eng. Abstr.) **(Ita)**

[Argon laser treatment of urethral angioma. Report of the first case] Borrego Hernando J, et al. **Arch Esp Urol** 1996 Oct;49(8):859–61 (12 ref.) (Eng. Abstr.) **(Spa)**

SURGERY

Reconstruction of head and neck hemangiomas with tissue expansion in the pediatric population. Chang CJ, et al. **Ann Plast Surg** 1997 Jan;38(1):15–8

Hemangioma of the nasal bones [letter] Karacaoğlan N, et al. **Ann Plast Surg** 1997 Aug;39(2):218–9

Surgical treatment of hemangiomas of the nose. Pitanguy I, et al. **Ann Plast Surg** 1996 Jun;36(6):586–92; discussion 592–3

Surgical treatment of giant haemangioma of the liver. Brouwers MA, et al. **Br J Surg** 1997 Mar;84(3):314–6

Intra–axial endophytic tumors in the pons and/or medulla oblongata. II. Intraoperative findings, postoperative results, and 2–year follow up in 25 children. Behnke J, et al. **Childs Nerv Syst** 1997 Mar;13(3):135–46

Laser treatment of port–wine stains and hemangiomas. Garden JM, et al. **Dermatol Clin** 1997 Jul;15(3):373–83 (47 ref.)

Cryogen spray cooling during Nd:YAG laser treatment of hemangiomas. A preliminary animal model study. Hoffman WL, et al. **Dermatol Surg** 1997 Aug;23(8):635–41

Treatment of a submucosal hemangioma of the esophagus using simultaneous video–assisted thoracoscopy and esophagoscopy: description of a new minimally invasive technique. Rämö OJ, et al. **Endoscopy** 1997 Jun;29(5):S27–8

Intramural right atrial myocardial hemangioma treated by emergency surgery. Hangler HB, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):782–4

Bulky–pedunculated hemolymphangioma of the esophagus: rare case in a two–years old girl. Canavese F, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):170–2

Blue rubber bleb nevus syndrome: endoscopic removal of the gastrointestinal hemangiomas. Bak YT, et al. **Gastrointest Endosc** 1997 Jan;45(1):90–2

Management of large vascular lesions of the lip: case reports. Salins PC, et al. **Int J Oral Maxillofac Surg** 1997 Feb; 26(1):45–8

Diode laser photocoagulation of choroidal hemangioma. Lanzetta P, et al. **Int Ophthalmol** 1995–96;19(4):239–47

Treatment of extensive urethral hemangioma with KTP/532 laser. Lauvetz RW, et al. **Lasers Surg Med** 1996;18(1):92–5

The significance of birthmarks [letter; comment] Arianayagam C. **Med J Aust** 1997 Jan 6;166(1):56. Comment on: Med J Aust 1996 May 20;164(10):618–23.

Treatment of benign cutaneous vascular proliferations with the 585–nm flashlamp–pulsed tunable dye laser. Krunic A, et al. **N C Med J** 1996 May–Jun;57(3):180–2

Vertebral haemangiomas with spinal cord compression: the place of preoperative percutaneous vertebroplasty with methyl methacrylate. Ide C, et al. **Neuroradiology** 1996 Aug;38(6):585–9

Unilateral cleft lip repair in the presence of a vermilion hemangioma. Williams JK, et al. **Plast Reconstr Surg** 1997 Jan;99(1):230–3

Clinicopathologic correlation of argon laser photocoagulation of retinal angiomas in a patient with von Hippel–Lindau disease followed for more than 20 years. Rosa RH Jr, et al. **Retina** 1996;16(2):145–56

In utero endoscopic devascularization of a large chorioangioma. Quintero RA, et al. **Ultrasound Obstet Gynecol** 1996 Jul;8(1):48–52

[The place of enucleation in the surgical management of hepatic hemangioma. Report of a case and review of the literature] Sarkis R, et al. **J Med Liban** 1995;43(4):227–9 (Eng. Abstr.) **(Fre)**

[Venous angiomatous hamartoma of the mesenteric root. Therapy of chylous ascites abd chylothorax—case report] Manger T, et al. **Chirurg** 1997 Feb;68(2):168–73 (Eng. Abstr.) **(Ger)**

[Intestinal hamartomatous venous hemangioma in childhood] Sichardt G, et al. **Chirurg** 1997 Feb;68(2):190–2 (Eng. Abstr.) **(Ger)**

[Diagnosis and therapy of vascular malformations in the head–neck area and their differentiation form hemangiomas] Stocker HI, et al. **Handchir Mikrochir Plast Chir** 1996 Nov;28(6):292–301 (Eng. Abstr.) **(Ger)**

[Differential therapy of cerebral arteriovenous malformations. An analysis with reference to personal microsurgery experiences] Schaller C, et al. **Nervenarzt** 1996 Oct;67(10):860–9 (72 ref.) (Eng. Abstr.) **(Ger)**

[Migration of an aneurysm clip in the ventricular system] Sievert T, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):451–3 **(Ger)**

[Surgical therapy of primary and secondary liver tumors] Broelsch CE, et al. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):91–3 (Eng. Abstr.) **(Ger)**

[Intramedullary spinal metastasis of bronchial carcinoma coincident with intramedullary spinal angioma] Dietl RH, et al. **Zentralbl Neurochir** 1996;57(1):25–9 (Eng. Abstr.) **(Ger)**

[The surgical treatment of a rare primary cardiac tumor: hemangioma. A report of 2 cases] Galli R, et al. **Cardiologia** 1997 Jan;42(1):89–93 (7 ref.) (Eng. Abstr.) **(Ita)**

[Anesthetic problems in a very low birth weight infant with Kasabach–Merritt syndrome] Mizushima A, et al. **Masui** 1996 Aug;45(8):1009–14 (Eng. Abstr.) **(Jpn)**

THERAPY

Symptomatic hemangiomas and venous malformations in infants, children, and young adults: treatment with percutaneous injection of sodium tetradecyl sulfate. O'Donovan JC, et al. **AJR Am J Roentgenol** 1997 Sep; 169(3):723–9

Subglottic haemangioma. Sherrington CA, et al. **Arch Dis Child** 1997 May;76(5):458–9

The response of parotid hemangiomas to the use of systemic interferon alfa–2a or corticosteroids. Blei F, et al. **Arch Otolaryngol Head Neck Surg** 1997 Aug;123(8):841–4

Interferon–alpha therapy for multiple hemangiomas associated with coarctation of the aorta. Hijii T, et al. **Heart Vessels** 1996;11(4):211–4

Detachable balloon occlusion of vascular malformations in young patients. Sreeram N, et al. **Int J Cardiol** 1996 Oct 11;56(2):119–24

Successful treatment of infantile hemangiomas with interferon–alpha–2b. Chang E, et al. **J Pediatr Hematol Oncol** 1997 May–Jun;19(3):237–44

Successful interferon therapy in a neonate with life–threatening Kasabach–Merritt syndrome. Nako Y, et al. **J Perinatol** 1997 May–Jun;17(3):244–7

Asymptomatic cervical haemangioma treated by percutaneous vertebroplasty. Dousset V, et al. **Neuroradiology** 1996 May;38(4):392–4

Acrylic vertebroplasty in symptomatic cervical vertebral haemangiomas: report of 2 cases. Feydy A, et al. **Neuroradiology** 1996 May;38(4):389–91

Treatment of massive or life–threatening hemangiomas with recombinant alpha(2a)–interferon. Bauman NM, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):99–110

Hemangiomas and vascular malformations. Morelli JG. **Pediatr Ann** 1996 Feb;25(2):91, 94–6 (20 ref.)

Management of hemangiomas. **Pediatr Dermatol** 1997 Jan–Feb;14(1):57–83

Nd:YAG laser irradiation in conjunction with cryogen spray cooling induces deep and spatially selective photocoagulation in animal models. Anvari B, et al. **Phys Med Biol** 1997 Feb;42(2):265–82

Management of hemangioma of infancy: review of 245 patients. Achauer BM, et al. **Plast Reconstr Surg** 1997 Apr; 99(5):1301–8

Successful treatment of an esophageal hemangioma by endoscopic injection sclerotherapy: report of a case. Aoki T, et al. **Surg Today** 1997;27(5):450–2

[Differential therapy of cerebral angiomas] Grzyska U, et al. **Wien Med Wochenschr** 1997;147(7–8):186–93 (50 ref.) (Eng. Abstr.) **(Ger)**

[Treatment with Ethibloc of lymphangiomas and venous angiomas] Esteban MJ, et al. **Cir Pediatr** 1996 Oct; 9(4):158–62 (Eng. Abstr.) **(Spa)**

[Clarification about hemangiomas is needed! Disagreement on treatment as well as terminology] Svendsen P, et al. **Lakartidningen** 1997 Jan 15;94(3):137–9 **(Swe)**

ULTRASONOGRAPHY

Placental chorioangioma associated with fetal cardiac complication. Demiriz M, et al. **Acta Obstet Gynecol Scand** 1997 Aug;76(7):708–9

Large chorioangioma: antenatal color–flow Doppler ultrasonic imaging and its correlation with postpartum pathology. Experience of two cases. Kung FT, et al. **Acta Obstet Gynecol Scand** 1997 Mar;76(3):277–9

Ultrasonographic diagnostics of maxillo–facial haemangiomas. Różyło TK, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:179–81

Placental chorioangioma: a case report and literature review. Esen UI, et al. **Br J Clin Pract** 1997 Apr–May;51(3):181–2

Color Doppler flow imaging of hepatocellular carcinomas. Comparison with metastatic tumors and hemangiomas by three–step grading for color hues. Lee MG, et al. **Clin Imaging** 1996 Jul–Sep;20(3):199–203

Possibility of differentiating small hyperechoic liver tumours using contrast–enhanced colour Doppler ultrasonography: a preliminary study. Tano S, et al. **Clin Radiol** 1997 Jan; 52(1):41–5

Large chorioangioma associated with hydrops fetalis: prenatal diagnosis and management. D'Ercole C, et al. **Fetal Diagn Ther** 1996 Sep–Oct;11(5):357–60

Prenatal diagnosis of hepatic hemangioma. Dreyfus M, et al. **Fetal Diagn Ther** 1996 Jan–Feb;11(1):57–60

Varying clinical course of large placental chorioangiomas. Report of 3 cases. Zoppini C, et al. **Fetal Diagn Ther** 1997 Jan–Feb;12(1):61–4

Our experience in the diagnostics of liver and spleen hemangiomas. Velkova K, et al. **Folia Med (Plovdiv)** 1997; 39(1):85–91

Lesion contrast enhancement in medical ultrasound imaging. Stetson PF, et al. **IEEE Trans Med Imaging** 1997 Aug; 16(4):416–25

Circumscribed choroidal hemangioma diagnosed by ultrasonography. A retrospective analysis of 40 cases. Verbeek AM, et al. **Int Ophthalmol** 1995–96;19(3):185–9

Brain hemangiomas of infancy. Sonographic detection and follow–up. Hundt C, et al. **J Neuroimaging** 1997 Apr; 7(2):81–5

Clinical utility of color Doppler sonography in the differentiation of hepatocellular carcinoma from metastases and hemangioma. Lin ZY, et al. **J Ultrasound Med** 1997 Jan;16(1):51–8

Application of artificial neural networks for the classification of liver lesions by image texture parameters. Sujana H, et al. **Ultrasound Med Biol** 1996;22(9):1177–81

Sonodynamic changes after transcatheter arterial embolization in a vaginal hemangioma: case report. Emoto M, et al. **Ultrasound Obstet Gynecol** 1997 Jul;10(1):66–7

Cutaneous hemangioma of the thigh: prenatal diagnosis. Gonçalves LF, et al. **Ultrasound Obstet Gynecol** 1997 Feb; 9(2):128–30

VETERINARY

Ocular neoplasms of vascular origin in the horse. Bolton JR, et al. **Equine Vet J Suppl** 1990 Sep;(10):73–5

Lingual hemangioma in a puppy: a case report and literature review. Schoofs SH. **J Am Anim Hosp Assoc** 1997 Mar–Apr;33(2):161–5 (23 ref.)

Gingival vascular hamartoma with associated paraneoplastic hyperglycemia in a kitten. Padgett SL, et al. **J Am Vet Med Assoc** 1997 Apr 1;210(7):914–5

VIROLOGY

"Hemangiodermatitis" associated with chronic hepatitis C virus infection [letter; comment] Mazzone A, et al. **Mayo Clin Proc** 1996 Nov;71(11):1124–5. Comment on: Mayo Clin Proc 1995 Jun;70(6):559–64.

Programmed endothelial cell death induced by an avian hemangioma retrovirus is density dependent. Sela–Donenfeld D, et al. **Virology** 1996 Sep 1;223(1):233–7

HEMANGIOMA, CAPILLARY

Epidural angioma: description of one case. Gaiani L, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):331–4 **(Eng, Ita)**

Testicular juvenile capillary hemangioma. Nistal M, et al. **J Urol** 1996 Nov;156(5):1771

Capillary hemangioma of the tympanic membrane. Magliulo G, et al. **Otolaryngol Head Neck Surg** 1997 Jan;116(1):137

COMPLICATIONS

Retinal capillary hemangioma in Marshall–Stickler syndrome. Shields JA, et al. **Am J Ophthalmol** 1997 Jul; 124(1):120–2

Resolution of astigmatism after surgical resection of capillary hemangiomas in infants. Plager DA, et al. **Ophthalmology** 1997 Jul;104(7):1102–6

Pulmonary capillary hemangiomatosis as a rare cause of pulmonary hypertension. Masur Y, et al. **Pathol Res Pract** 1996 Mar;192(3):290–5; discussion 296–9 (27 ref.)

Beckwith–Wiedemann syndrome and splenic hemangioma: report of a case. Herman TE, et al. **Pediatr Radiol** 1997 Apr;27(4):350–2

[Capillary and cavernous hemangioma disclosed by painful amyotrophy of the thigh] Dematteis M, et al. **Rev Neurol (Paris)** 1996 Jun–Jul;152(6–7):473–5 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Primary intraosseous hemangioma of the orbit: CT and MR appearance. Sweet C, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):379–81

Magnetic resonance imaging features of an epidural spinal haemangioma. Gupta S, et al. **Australas Radiol** 1996 Aug; 40(3):342–4

Intraneural capillary hemangioma of the cauda equina. Mastronardi L, et al. **Eur Spine J** 1997;6(4):278–80 (13 ref.)

Cellular haemangioma of caecum in a child. Lanjewar DN, et al. **Histopathology** 1996 Dec;29(6):585–6

MRI of capillary hemangioma of the testis. Essig M, et al. **J Comput Assist Tomogr** 1997 May–Jun;21(3):402–4
False positive MIBG scan. Frappaz D, et al. **Med Pediatr Oncol** 1997 Dec;29(6):589–92
Diagnostic and therapeutic challenges. Schatz H. **Retina** 1996;16(4):337–40
Ipsilateral facial and uveal arteriovenous and capillary angioma, microphthalmos, heterochromia of the iris, and hypotony: an oculocutaneous syndrome simulating Sturge–Weber syndrome. Gass JD. **Trans Am Ophthalmol Soc** 1996;94:227–37; discussion 237–9

DRUG THERAPY

Tufted angioma associated with platelet trapping syndrome: response to aspirin. Léauté–Labrèze C, et al. **Arch Dermatol** 1997 Sep;133(9):1077–9 (12 ref.)
Regression of remote capillary haemangioma after local intralesional injection of corticosteroids [letter] Zadok D, et al. **Eye** 1996;10 (Pt 6):759
Treatment of periocular capillary hemangioma with topical clobetasol propionate. Cruz OA, et al. **Ophthalmology** 1995 Dec;102(12):2012–5
[Therapeutic effectiveness of local administration of corticosteroids in the treatment of orbital capillary hemangioma] Gerinec A, et al. **Cesk Slov Oftalmol** 1996 Nov;52(6):356–61 (Eng. Abstr.) **(Slo)**

ENZYMOLOGY

Histochemical study on hemangiomas in childhood. Stefanova P, et al. **Folia Med (Plovdiv)** 1996;38(1):69–73

METABOLISM

Juvenile hemangioma of the testis: analysis of expression of angiogenic factors. Uchida K, et al. **Urology** 1997 Feb; 49(2):285–6

PATHOLOGY

Proliferation and apoptosis within juvenile capillary hemangiomas. Mancini AJ, et al. **Am J Dermatopathol** 1996 Oct;18(5):505–14
Pathological case of the month. Capillary hemangioma of the lung. Davis MM, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1309–10
Tufted angioma, a particular form of angioma. Vanhooteghem O, et al. **Dermatology** 1997;194(4):402–4
Pulmonary capillary haemangiomatosis. Ishii H, et al. **Histopathology** 1996 Sep;29(3):275–8
Epidermal nevus syndrome with hemangioma simplex [letter] Kawachi R, et al. **J Dermatol** 1997 Jan;24(1):66–7
Capillary haemangioma of the parotid in an adult: an unusual case and a review of the literature. Hughes RG, et al. **J Laryngol Otol** 1997 Jun;111(6):588–9 (13 ref.)
Infants with Kasabach–Merritt syndrome do not have "true" hemangiomas. Enjolras O, et al. **J Pediatr** 1997 Apr; 130(4):631–40
Pulmonary capillary hemangiomatosis as a rare cause of pulmonary hypertension. Masur Y, et al. **Pathol Res Pract** 1996 Mar;192(3):290–5; discussion 296–9 (27 ref.)
[Intramural hemangioma of the portal vein] Danz M, et al. **Pathologe** 1997 May;18(3):243–5 (Eng. Abstr.) **(Ger)**
[Infantile capillary hemangioma of the outer ala nasi. Report of a case] Grijalba Uche M, et al. **An Otorrinolaringol Ibero Am** 1997;24(2):161–7 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Pathological case of the month. Capillary hemangioma of the lung. Davis MM, et al. **Arch Pediatr Adolesc Med** 1996 Dec;150(12):1309–10

SURGERY

Resolution of astigmatism after surgical resection of capillary hemangiomas in infants. Plager DA, et al. **Ophthalmology** 1997 Jul;104(7):1102–6

THERAPY

[Periorbital capillary hemangiomas in children—treatment and monitoring of treatment] Orawiec B, et al. **Klin Oczna** 1996 Mar;98(3):217–20 (Eng. Abstr.) **(Pol)**

ULTRASONOGRAPHY

Sonographic features of head and neck hemangiomas and vascular malformations: review of 23 patients. Yang WT, et al. **J Ultrasound Med** 1997 Jan;16(1):39–44
Testicular capillary hemangioma: an unusual diagnosis suggested by duplex color flow ultrasound findings. Stille JR, et al. **J Urol** 1997 Apr;157(4):1458–9
[Periorbital capillary hemangiomas in children—treatment and monitoring of treatment] Orawiec B, et al. **Klin Oczna** 1996 Mar;98(3):217–20 (Eng. Abstr.) **(Pol)**

ULTRASTRUCTURE

Ultrastructural study of hemangiomas in children. Stefanova P, et al. **Folia Med (Plovdiv)** 1996;38(1):61–8
High frequency of apoptosis in infantile capillary haemangioma. Iwata J, et al. **J Pathol** 1996 Aug; 179(4):403–8

HEMANGIOMA, CAVERNOUS

Epidural angioma: description of one case. Gaiani L, et al. **Chir Organi Mov** 1996 Jul–Sep;81(3):331–4 **(Eng, Ita)**
Kasabach–Merritt syndrome and Down's syndrome. Ram SP. **J R Soc Med** 1997 Mar;90(3):159–60
Cavernoma of the cavernous sinus: case report. Bristot R, et al. **Surg Neurol** 1997 Aug;48(2):160–3
Benign vascular tumours of the Mediastinum: presentation of three cases and review of the literature. Mineo TC, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):361–4
[Giant cavernous hemangioma of the liver] Greif F, et al. **Harefuah** 1996 Dec 1;131(11):471–4, 536, 535 (Eng. Abstr.) **(Heb)**
[Vascular testicular tumors] Llarena Ibarguren R, et al. **Arch Esp Urol** 1996 Jun;49(5):474–8 (23 ref.) (Eng. Abstr.) **(Spa)**

BLOOD SUPPLY

Central vascular malformation of the mandible: a case report. Beziat JL, et al. **J Oral Maxillofac Surg** 1997 Apr; 55(4):415–9

COMPLICATIONS

Spontaneous hemoperitoneum from a giant multicystic hemangioma of the liver: a case report. Scribano E, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):418–9
Cavernous haemangioma of the iris in a leprosy patient [letter] Ebenezer GJ, et al. **Br J Ophthalmol** 1997 Jul; 81(7):610–2
SUNCT syndrome associated with cavernous angioma of the brain stem. De Benedittis G. **Cephalalgia** 1996 Nov; 16(7):503–6
Panic attacks caused by temporal tumors: an exemplary new case and a review. Kellner M, et al. **Depress Anxiety** 1996–97;4(5):243–5 (23 ref.)
Cerebral haemorrhage in long–term survivors of childhood acute lymphoblastic leukaemia. Humpl T, et al. **Eur J Pediatr** 1997 May;156(5):367–70
Cavernous angioma with olivary hypertrophy and contralateral cerebellar diaschisis. Komaba Y, et al. **Intern Med** 1997 Jul;36(7):504–7
Traumatic rupture of hepatic hemangioma. Hotokezaka M, et al. **J Clin Gastroenterol** 1996 Jul;23(1):69–71 (20 ref.)
Extraneural hemangioma: a case report of acute cubital tunnel syndrome. Nakamura I, et al. **J Hand Surg [Br]** 1996 Nov; 21(6):1097–8
Superficial siderosis and episodic fourth nerve paresis. Report of a case with clinical and magnetic resonance imaging findings. Hashimoto M, et al. **J Neuroophthalmol** 1996 Dec; 16(4):277–80
Renal cavernous hemangioma in a patient with the acquired immunodeficiency syndrome. Moody JA, et al. **J Urol** 1996 Nov;156(5):1759–60
Dural cavernous angioma causing acute subdural hemorrhage—case report. Suzuki K, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):580–2
Supratentorial cavernous angiomas and epileptic seizures: preoperative course and postoperative outcome [letter; comment] Schroeder HW, et al. **Neurosurgery** 1996 Dec; 39(6):1271. Comment on: Neurosurgery 1996 Jul;39(1):26–32; discussion 32–4.
Cavernous hemangioma with cone dysfunction. Gündüz K, et al. **Ophthalmologica** 1996;210(6):367–71
Bilateral horizontal gaze palsy with pontine cavernous hemangioma: a case report. Shimura M, et al. **Ophthalmologica** 1997;211(5):320–2
[Association of venous angioma and cavernoma of the posterior fossa] Chaix Y, et al. **Arch Pediatr** 1996 Jul; 3(7):685–8 (Eng. Abstr.) **(Fre)**
[Cavernous hemangioma of the rectum: an uncommon cause of pelvic pain. Apropos of 2 cases] Lautard M, et al. **Chirurgie** 1997;122(2):149–52 (18 ref.) (Eng. Abstr.) **(Fre)**
[Capillary and cavernous hemangioma disclosed by painful amyotrophy of the thigh] Dematteis M, et al. **Rev Neurol (Paris)** 1996 Jun–Jul;152(6–7):473–5 (Eng. Abstr.) **(Fre)**
[Complex partial status epilepticus in a patient with a frontal cavernous angiomas] Eguchi T, et al. **No Shinkei Geka** 1996 Mar;24(3):259–62 (Eng. Abstr.) **(Jpn)**
[A case of acromegaly associated with variegated spinal disorders] Suga T, et al. **No Shinkei Geka** 1996 Oct; 24(10):927–32 (Eng. Abstr.) **(Jpn)**
[Simple partial seizure consisting of complex visual hallucinations due to left temporo–occipital lesion] Takahashi N, et al. **Rinsho Shinkeigaku** 1996 May; 36(5):665–9 (Eng. Abstr.) **(Jpn)**

CONGENITAL

Fetal cavernous angioma—case report. Hashimoto H, et al. **Neurol Med Chir (Tokyo)** 1997 Apr;37(4):346–9 (23 ref.)

DIAGNOSIS

Hepatic cavernous hemangioma: appearance on T2–weighted fast spin–echo MR imaging with and without fat suppression. Soyer P, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):461–5
Serial dynamic magnetic resonance imaging of orbital cavernous hemangioma. Ohtsuka K, et al. **Am J Ophthalmol** 1997 Mar;123(3):396–8
A case of bilateral cavernous hemangioma associated with intracerebral hemangioma. Bell D, et al. **Arch Ophthalmol** 1997 Jun;115(6):818–9
Radiology for the surgeon. Case 13. Giant cavernous hemangioma of the liver. Mott BD, et al. **Can J Surg** 1997 Feb;40(1):13, 66–7
Intramuscular cavernous hemangioma of the masseter muscle. Hsiao CW, et al. **Chang Keng I Hsueh** 1995 Dec; 18(4):335–40
Supra– and infratentorial multiple cavernous angiomas in an infant: report with MR evaluation of an unusual case. Fujii M, et al. **Childs Nerv Syst** 1996 Sep;12(9):564–7
Cerebral venous angiomas associated with hemorrhagic lesions. Their MRI manifestations. Uchino A, et al. **Clin Imaging** 1996 Jul–Sep;20(3):157–63
Adrenal cavernous hemangioma: MRI, CT, and US appearance. Marotti M, et al. **Eur Radiol** 1997;7(5):691–4
A case of exophytic hepatic hemangioma mimicking adrenal tumor. Maekawa S, et al. **Hinyokika Kiyo** 1997 Feb; 43(2):123–6
Pedunculated giant hemangioma of liver. Kumarakrishnan S, et al. **Indian J Gastroenterol** 1997 Jan;16(1):35–6
Giant cavernous hemangiomas of liver mimicking metastasis. Sood A, et al. **J Assoc Physicians India** 1996 Nov; 44(11):784–5
Clinical image. MRI of scrotal hemangioma. Aizenstein RI, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):888–9 (8 ref.)
Diffuse cavernous hemangioma of the rectum: MR imaging with endorectal surface coil and sphincter–saving surgery. Hasegawa H, et al. **J Gastroenterol** 1996 Dec;31(6):875–9
A small cavernous vascular malformation in the hand mimicking a glomus tumour. al–Qattan MM. **J Hand Surg [Br]** 1996 Oct;21(5):693–4
Biliary obstruction caused by portal cavernoma in a patient with laterality sequence [letter; comment] Beltrami M, et al. **J Hepatol** 1997 Jun;26(6):1427–8. Comment on: J Hepatol 1996 Jul;25(1):58–63.
Multiple cavernous hemangiomas of the liver in patients with systemic lupus erythematosus [letter] Suzuki T, et al. **J Rheumatol** 1997 Apr;24(4):810–1
Cavernous angioma of the brain stem mimicking multiple sclerosis [letter] Vrethem M, et al. **N Engl J Med** 1997 Mar 20;336(12):875–6
Foramen of Monro mass: MRI appearances permit diagnosis of cavernous haemangioma. Kaim A, et al. **Neuroradiology** 1997 Apr;39(4):265–9
Familial presumed cerebral cavernous angiomas diagnosed by MRI: three generations. Mori T, et al. **Neuroradiology** 1996 Oct;38(7):641–5
Cavernous hemangioma in the submandibular gland masquerading as sialadenitis: case report. McMenamin M, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Aug;84(2):146–8
Cavernous hemangioma of the adrenal gland: MRI appearance. Hayasaka K, et al. **Radiat Med** 1996 Jul–Aug; 14(4):193–5
Submillimeter–pixel MR images of hepatic cavernous hemangiomas. Maeda H, et al. **Radiat Med** 1997 Jan–Feb; 15(1):17–22
Clinics in diagnostic imaging (14). Cavernous haemangioma of the liver. Ooi GC, et al. **Singapore Med J** 1996 Jun; 37(3):312–4 (10 ref.)
Cystic extra–axial cavernoma of the cerebellopontine angle. Brunori A, et al. **Surg Neurol** 1996 Nov;46(5):475–6
Solitary cavernous hemangioma of the duodenum: report of a case. Fujikawa T, et al. **Surg Today** 1996;26(10):807–9
[Spinal epidural cavernous angioma. Apropos of 2 cases. Review of the literature] Yettou H, et al. **Neurochirurgie** 1996;42(6):300–4; discussion 304–5 (28 ref.) (Eng. Abstr.) **(Fre)**
[Cavernous hemangioma of the optic papilla: clinical and echographic findings] Irene R, et al. **Klin Monatsbl Augenheilkd** 1996 Dec;209(6):380–2 (Eng. Abstr.) **(Ger)**
[Cavernous hemangioma of urinary bladder: a case report and review of the literature] Minamide M, et al. **Hinyokika Kiyo** 1996 Sep;42(9):683–5 (Eng. Abstr.) **(Jpn)**
[Pulmonary cavernous hemangioma—identification of its endothelial cell origin by immunohistological staining] Ienaga H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Dec;34(12):1427–30 (Eng. Abstr.) **(Jpn)**
[Spinal intramedullary cavernous angioma associated with hematomyelia: case report with sequential MRI follow–up and histological verification of hematoidin deposits] Nagashima C, et al. **No Shinkei Geka** 1996 Dec; 24(12):1125–32 (Eng. Abstr.) **(Jpn)**
[Clinical study of intraspinal neoplasms in children] Takahashi I, et al. **No Shinkei Geka** 1996 Jul;24(7):605–11 (Eng. Abstr.) **(Jpn)**
[Anterior extramuscular neck mass] Pulido Rivas P, et al. **Rev Clin Esp** 1997 Feb;197(2):131–2 **(Spa)**
[A young woman with right hemiparesia, diplopia and familial antecedents of neurologic disease] Sánchez–Chaparro MA, et al. **Rev Clin Esp** 1996 Oct; 196(10):723–4 **(Spa)**

DRUG THERAPY

Megadose methylprednisolone therapy for Kasabach–Merritt

syndrome [letter; comment] Ozsoylu S. **J Pediatr** 1996 Dec; 129(6):947–8. Comment on: J Pediatr 1996 Jan;128(1):141–6.

Efficacy of bleomycin treatment for symptomatic hemangiomas in children. Kullendorff CM. **Pediatr Surg Int** 1997 Sep;12(7):526–8

ENZYMOLOGY

Histochemical study on hemangiomas in childhood. Stefanova P, et al. **Folia Med (Plovdiv)** 1996;38(1):69–73

ETIOLOGY

Central vascular malformation of the mandible: a case report. Beziat JL, et al. **J Oral Maxillofac Surg** 1997 Apr; 55(4):415–9

GENETICS

Refined localization of the cerebral cavernous malformation gene (CCM1) to a 4–cM interval of chromosome 7q contained in a well–defined YAC contig. Johnson EW, et al. **Genome Res** 1995 Nov;5(4):368–80

Familial cavernous hemangioma with atypical neuroimaging. Passarin MG, et al. **Ital J Neurol Sci** 1996 Aug; 17(4):295–300

Linkage of the locus for cerebral cavernous hemangiomas to human chromosome 7q in four families of Mexican–American descent. Polymeropoulos MH, et al. **Neurology** 1997 Mar;48(3):752–7

De novo familial cavernous malformation presenting with hemorrhage 12.5 years after the initial hemorrhagic Ictus: natural history of an infantile form. Tekkök IH, et al. **Pediatr Neurosurg** 1996 Sep;25(3):151–5 (16 ref.)

[Familial cerebral cavernous angiomatosis] Mouly S, et al. **Rev Neurol (Paris)** 1996 Dec;152(12):752–4 (Eng. Abstr.) **(Fre)**

[Familial occurrence of intracerebral cavernous angioma: report of cases in brothers] Yamamura K, et al. **No Shinkei Geka** 1995 Dec;23(12):1105–9 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Familial multiple cavernous angioma in the brain and spinal cord] Kimura T, et al. **No To Shinkei** 1996 Oct;48(10):955–9 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Familial multiple cavernomatosis] Terriza F, et al. **Rev Neurol** 1997 Apr;25(140):560–2 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

Proliferating cell nuclear antigen (PCNA) in cerebral cavernomas: an immunocytochemical study of 42 cases. Notelet L, et al. **Surg Neurol** 1997 Apr;47(4):364–70

PATHOLOGY

Malignant endovascular papillary angioendothelioma (Dabska tumor) arising within a deep intramuscular hemangioma. Argani P, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):992–5 (13 ref.)

Intra–articular hemangioma of the knee with meniscal and bony attachment. Pinar H, et al. **Arthroscopy** 1997 Aug; 13(4):507–10

Giant hemifacial angioma and PHACE syndrome [letter] Quecedo E, et al. **Br J Dermatol** 1997 Apr;136(4):649–50

Cavernous haemangiomas in the cavernous sinus [letter; comment] Başkaya MK. **Br J Neurosurg** 1996 Aug; 10(4):422–3. Comment on: Br J Neurosurg 1995;9(1):77–80.

Spinal intradural extramedullary cavernous angiomas: report of four cases and review of the literature. Rao GP, et al. **Br J Neurosurg** 1997 Jun;11(3):228–32 (17 ref.)

Vascular abnormalities of the uterus, concerning a case of diffuse cavernous angiomatosis of the uterus. Gantchev S. **Gen Diagn Pathol** 1997 Jul;143(1):71–4

Diffuse expansive cavernous hemangioma of the gallbladder. Mayorga M, et al. **Gen Diagn Pathol** 1997 Feb; 142(3–4):211–5 (8 ref.)

Dissecting aneurysm of the pulmonary artery associated with a large facial cavernous haemangioma. Shanks JH, et al. **Histopathology** 1997 Apr;30(4):390–2

Familial cavernous hemangioma with atypical neuroimaging. Passarin MG, et al. **Ital J Neurol Sci** 1996 Aug; 17(4):295–300

Giant hemangioma of the sternocleidomastoid muscle: report of a case. Zhan FH, et al. **J Oral Maxillofac Surg** 1997 Feb;55(2):190–3

Gaze–evoked amaurosis caused by intraconal cavernous hemangioma: a case report. Tsai RK, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 May; 13(5):324–7

Cavernous angioma of the cauda equina: report of two cases and review of the literature. Cervoni L, et al. **Neurosurg Rev** 1995;18(4):281–3

Immunohistochemically identifiable tissue plasminogen activator in cavernous angioma: mechanism for re–hemorrhage and lesion growth. Frim DM, et al. **Pediatr Neurosurg** 1996 Sep;25(3):137–41; discussion 141–2

Mitochondrial enlargement and crystalloid matrix arrays: distinctive finding in childhood portal hypertension due to cavernous transformation of the portal vein. Daugherty CC, et al. **Pediatr Pathol Lab Med** 1996 Mar–Apr; 16(2):263–74

[Adrenal angioma] Borghesi MR. **Pathologica** 1996 Feb; 88(1):40–2 (9 ref.) (Eng. Abstr.) **(Ita)**

[Intramedullary cavernous angioma in a 10–year–old child: a case report] Bastida Eizaguirre M, et al. **An Esp Pediatr** 1997 Apr;46(4):403–5 **(Spa)**

[Familial multiple cavernomatosis] Terriza F, et al. **Rev Neurol** 1997 Apr;25(140):560–2 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Haemangioma of the oesophagus: CT demonstration. Dumbleton SA, et al. **Australas Radiol** 1997 Feb;41(1):65–6

Cavernous hemangioma of the liver: pathologic correlation with dynamic CT findings. Yamashita Y, et al. **Radiology** 1997 Apr;203(1):121–5

RADIONUCLIDE IMAGING

Focal hyperemia on RBC blood–flow imaging. A scintigraphic marker of arterioportal venous shunting in hepatic cavernous hemangiomas? Dwamena BA, et al. **Clin Nucl Med** 1997 Aug;22(8):542–5

Diagnosis of orbital cavernous hemangioma with Tc–99m RBC SPECT. Ki WW, et al. **Clin Nucl Med** 1997 Aug; 22(8):546–9

Perfusion and blood–pool scintigraphy in the evaluation of head and neck hemangiomas. Murata Y, et al. **J Nucl Med** 1997 Jun;38(6):882–5

Cavernous hemangioma of the liver. Diagnostic value of 99mTc–labeled red cell scintigraphy: results in 28 patients. Isla C, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):29–38 **(Eng, Spa)**

RADIOTHERAPY

Occult cerebrovascular malformations after irradiation. Pozzati E, et al. **Neurosurgery** 1996 Oct;39(4):677–82; discussion 682–4

SURGERY

Lesionectomy in epileptogenic temporal lobe lesions: preoperative seizure course and postoperative outcome. Casazza M, et al. **Acta Neurochir Suppl (Wien)** 1997;68:64–9

Cavernomas of the central nervous system in children. A report of 22 cases. Di Rocco C, et al. **Acta Neurochir (Wien)** 1996;138(11):1267–74; discussion 1273–4 (40 ref.)

Cavernous haemangioma of the pineal region. Lombardi D, et al. **Acta Neurochir (Wien)** 1996;138(6):678–83 (16 ref.)

Seizure control following surgery in supratentorial cavernous malformations: a retrospective study in 77 patients. Zevgaridis D, et al. **Acta Neurochir (Wien)** 1996; 138(6):672–7

Antiphospholipid syndrome and neurosurgery [letter; comment] Kiyama S. **Anaesthesia** 1997 Jun;52(6):612. Comment on: Anaesthesia 1997 Jan;52(1):72–6.

Excision of orbital cavernous hemangioma: refinement of strategy. Thériault JF, et al. **Can J Ophthalmol** 1996 Aug; 31(5):246–8

Endoscopic polypectomy under laparotomy throughout the alimentary tract for a patient with blue rubber bleb nevus syndrome. Shimada S, et al. **Gastrointest Endosc** 1997 May; 45(5):423–7 (25 ref.)

Giant hemangiomas of the liver: surgical treatment by liver resection. Borgonovo G, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):231–4

A giant hepatic hemangioma with secondary portal hypertension: a case report of successful surgical treatment. Takahashi T, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1212–4

Symptomatic giant cavernous haemangioma of the liver: is enucleation a safe method? A single institution report. Demiryürek H, et al. **HPB Surg** 1997;10(5):299–304

Treatment of a giant haemangioma of the liver with Kasabach–Merritt syndrome by orthotopic liver transplant a case report. Longeville JH, et al. **HPB Surg** 1997; 10(3):159–62

Orbital cavernous angiomas: surgical experience on a series of 13 cases. Acciarri N, et al. **J Neurosurg Sci** 1995 Dec; 39(4):203–9

Stereotactically guided cavernous malformation surgery. Boecher–Schwarz HG, et al. **Minim Invasive Neurosurg** 1996 Jun;39(2):50–5

Early fatal rebleeding from a cerebellar cavernous malformation—case report. Yoshimoto Y, et al. **Neurol Med Chir (Tokyo)** 1997 Apr;37(4):343–5

Surgical removal of cavernous angioma in the medulla oblongata. A case report. Abe M, et al. **Neurosurg Rev** 1997;20(2):128–31 (10 ref.)

Successful excision of hemorrhagic cavernous angioma in a patient with severe factor VII deficiency: perioperative treatment with factor VII concentrate. Brunori A, et al. **Neurosurg Rev** 1997;20(1):67–70

Surgical management of brain–stem cavernomas. Pechstein U, et al. **Neurosurg Rev** 1997;20(2):87–93

Supratentorial cavernous angiomas and epileptic seizures: preoperative course and postoperative outcome [see comments] Casazza M, et al. **Neurosurgery** 1996 Jul; 39(1):26–32; discussion 32–4. Comment in: Neurosurgery 1996 Dec;39(6):1271. Comment in: Neurosurgery 1997 Apr;40(4):885.

Cavernous malformation presenting as an extra–axial cerebellopontine angle mass: case report. Kim M, et al. **Neurosurgery** 1997 Jan;40(1):187–90

The contralateral transcallosal approach: experience with 32 patients. Lawton MT, et al. **Neurosurgery** 1996 Oct; 39(4):729–34; discussion 734–5

Supratentorial cavernous angiomas and epileptic seizures: preoperative course and postoperative outcome [letter; comment] Schroeder HW, et al. **Neurosurgery** 1997 Apr; 40(4):885. Comment on: Neurosurgery 1996 Jul;39(1):26–32; discussion 32–4.

Supratentorial cavernous angiomas and epileptic seizures: preoperative course and postoperative outcome [letter; comment] Schroeder HW, et al. **Neurosurgery** 1996 Dec; 39(6):1271. Comment on: Neurosurgery 1996 Jul;39(1):26–32; discussion 32–4.

Vaginal cavernous hemangioma in pregnancy. Rezvani FF. **Obstet Gynecol** 1997 May;89(5 Pt 2):824–5

Dural cavernous angiomas in a child. Hsiang JN, et al. **Pediatr Neurosurg** 1996 Aug;25(2):105–8

Use of hydroxyapatite for reconstruction after surgical removal of intraosseous hemangioma in the zygomatic bone. Hirano S, et al. **Plast Reconstr Surg** 1997 Jul; 100(1):86–90 (18 ref.)

Successful resection of a giant hepatic haemangioma. Verma GR, et al. **Trop Gastroenterol** 1996 Oct–Dec;17(4):232–3

[Cavernous cerebral angioma: indications for neurosurgical removal] Kloet A, et al. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2494–8 (30 ref.) **(Dut)**

[Colorectal cavernous hemangiomatosis treated by total coloproctectomy and ileo–anal anastomosis] Singland JD, et al. **Ann Chir** 1997;51(4):382–4 (Eng. Abstr.) **(Fre)**

[Cavernous hemangioma of the geniculate ganglion. Value of otoneurosurgical collaboration] Collange S, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(5):385–7 (Eng. Abstr.) **(Fre)**

[Treatment of cavernous hemangiomas with the neodymium:YAG laser] Gosepath K, et al. **Laryngorhinootologie** 1997 May;76(5):284–8 (Eng. Abstr.) **(Ger)**

[Cerebral cavernomas—clinical aspects and therapy] Meixensberger J, et al. **Wien Med Wochenschr** 1997; 147(7–8):194–8 (47 ref.) (Eng. Abstr.) **(Ger)**

[Diagnosis and surgical treatment of cavernous hemangioma of the liver] Vecherko VN, et al. **Khirurgiia (Mosk)** 1996; (2):22–3; discussion 24 (Eng. Abstr.) **(Rus)**

[An infected cavernous hemangioma of the greater omentum in a child] Slizovskiĭ GV, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):69 **(Rus)**

[Options in the surgical treatment of diffuse cavernous hemangioma of the rectum] Castellví J, et al. **Rev Esp Enferm Dig** 1996 Aug;88(8):566–8 (Eng. Abstr.) **(Spa)**

THERAPY

Preoperative transcatheter arterial embolization for giant cavernous hemangioma of the liver with consumption coagulopathy. Suzuki H, et al. **Am J Gastroenterol** 1997 Apr;92(4):688–91 (29 ref.)

Transcatheter arterial embolization of two symptomatic giant cavernous hemangiomas of the liver. Althaus S, et al. **Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):364–7

Successful management with interferon alpha–2a after prednisone therapy failure in an infant with a giant cavernous hemangioma. Castello MA, et al. **Med Pediatr Oncol** 1997 Mar;28(3):213–5

ULTRASONOGRAPHY

Successful outcome in a pregnancy complicated by large hepatic hemangioma. Marques R, et al. **Acta Obstet Gynecol Scand** 1997 Jul;76(6):606–7

Cardiac cavernous hemangioma mimicking pericardial cyst: atypical echocardiographic appearance of a rare cardiac tumor. Landolphi DR, et al. **J Am Soc Echocardiogr** 1997 Jun;10(5):579–81

Prenatal diagnosis of an extensive haemangioma of the fetal leg: a case report. Raman S, et al. **J Obstet Gynaecol Res** 1996 Aug;22(4):375–8

Sonographic features of head and neck hemangiomas and vascular malformations: review of 23 patients. Yang WT, et al. **J Ultrasound Med** 1997 Jan;16(1):39–44

US case of the day. Cavernous hemangioma of the bladder. Kogan MG, et al. **Radiographics** 1996 Mar;16(2):443–7

[Vascularization patterns in focal liver lesions: comparison of plain and signal–enhanced amplitude–modulated color duplex ultrasonography] Hosten N, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):507–13 (Eng. Abstr.) **(Ger)**

ULTRASTRUCTURE

Ultrastructural study of hemangiomas in children. Stefanova P, et al. **Folia Med (Plovdiv)** 1996;38(1):61–8

HEMANGIOMA, HISTIOCYTOID see **HEMANGIOMA**

HEMANGIOMA, INTRAMUSCULAR see **HEMANGIOMA**

HEMANGIOMA, LOBULAR CAPILLARY see **GRANULOMA, PYOGENIC**

HEMANGIOPERICYTOMA

[Hemangiopericytoma of the heart] Ono K, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(14):241–5 (29 ref.) **(Jpn)**

[Hemangiopericytoma of the renal sinus. Report of a case and review of the literature] Carcamo Valor P, et al. **Arch Esp Urol** 1996 Nov;49(9):944–9 (25 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Systemic and regional tumour metabolism in a patient with non-islet cell tumour hypoglycaemia: role of increased levels of free insulin-like growth factors [letter] Møller N, et al. **Diabetologia** 1996 Dec;39(12):1534–5

COMPLICATIONS

Hemangiopericytoma: an unusual cause of upper gastrointestinal hemorrhage. Grimsley BR, et al. **Am Surg** 1997 Mar;63(3):248–51

Primary pulmonary malignant hemangiopericytoma associated with coagulopathy. Wu YC, et al. **Ann Thorac Surg** 1997 Sep;64(3):841–3

Mechanisms of tumor-induced hypoglycemia with intraabdominal hemangiopericytoma. Chung J, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):919–25

Hypophosphatemia induced in mice by transplantation of a tumor-derived cell line from a patient with oncogenic rickets. Chalew SA, et al. **J Pediatr Endocrinol Metab** 1996 Nov–Dec;9(6):593–7

External carotid artery ligation for life-threatening hemorrhage in exsanguinating orbital facial congenital hemangiopericytoma. Fanning NF, et al. **J Pediatr Surg** 1997 Aug;32(8):1252–4

Are soft-tissue sarcomas of the thigh particularly prone to thromboembolic phenomena? [letter] Richards AM, et al. **Plast Reconstr Surg** 1997 Sep;100(4):1074–5

[Renal hemangiopericytoma and secondary hypertension] Angulo Cuesta J, et al. **Arch Esp Urol** 1996 Sep;49(7):766–8 (Eng. Abstr.) **(Spa)**

CONGENITAL

Congenital hemangiopericytoma of the skin. Ferreira CM, et al. **Int J Dermatol** 1997 Jul;36(7):521–3

Preoperative chemotherapy for congenital hemangiopericytoma and a review of the literature. del Rosario ML, et al. **J Pediatr Hematol Oncol** 1997 May–Jun; 19(3):247–50 (26 ref.)

External carotid artery ligation for life-threatening hemorrhage in exsanguinating orbital facial congenital hemangiopericytoma. Fanning NF, et al. **J Pediatr Surg** 1997 Aug;32(8):1252–4

Congenital hemangiopericytoma/infantile myofibromatosis: radical surgery versus a conservative "wait and see" approach. Toren A, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):387–93

DIAGNOSIS

Intracranial hemangiopericytomas: MR and CT features. Chiechi MV, et al. **AJNR Am J Neuroradiol** 1996 Aug; 17(7):1365–71

Sellar and suprasellar hemangiopericytoma mimicking pituitary adenoma. Morrison DA, et al. **Arch Ophthalmol** 1997 Sep;115(9):1201–3

Primary intrathoracic extrapulmonary hemangiopericytoma. CT and MR findings. Kusumoto S, et al. **Clin Imaging** 1997 Jan–Feb;21(1):51–3

Haemangiopericytoma: current status, diagnosis and management. Pandey M, et al. **Eur J Surg Oncol** 1997 Aug; 23(4):282–5 (56 ref.)

Congenital hemangiopericytoma of the skin. Ferreira CM, et al. **Int J Dermatol** 1997 Jul;36(7):521–3

Hemangiopericytoma: a rare pineal mass. Sell JJ, et al. **Neuroradiology** 1996 Nov;38(8):782–4

Case report: MR appearance of hemangiopericytoma of the thigh. Tanaka H, et al. **Radiat Med** 1996 Sep–Oct; 14(5):275–8

[A voluminous prevesical hemangiopericytoma. A clinical case report] Donnola G, et al. **Minerva Chir** 1997 May; 52(5):673–8 (31 ref.) (Eng. Abstr.) **(Ita)**

DRUG THERAPY

Ifosfamide-based chemotherapy for recurrent or metastatic hemangiopericytoma. Celik I, et al. **Acta Oncol** 1997; 36(3):348

Preoperative chemotherapy for congenital hemangiopericytoma and a review of the literature. del Rosario ML, et al. **J Pediatr Hematol Oncol** 1997 May–Jun; 19(3):247–50 (26 ref.)

GENETICS

Homozygous deletions of the CDKN2/p16 gene in dural hemangiopericytomas. Ono Y, et al. **Acta Neuropathol (Berl)** 1996;91(3):221–5

Congenital hemangiopericytoma: two cases of familiar presentation. Margarit J, et al. **Eur J Pediatr Surg** 1997 Aug;7(4):245–7

The contribution of cytogenetics to the histogenesis of meningeal hemangiopericytoma. Zattara-Cannoni H, et al. **J Neurooncol** 1996 Aug;29(2):137–42

IMMUNOLOGY

Ki-67 and biological behaviour in meningeal haemangiopericytomas. Probst-Cousin S, et al. **Histopathology** 1996 Jul;29(1):57–61

Immunohistochemical characterization of hemangioblastomas and hemangiopericytomas. Hatva E, et al. **Am J Pathol** 1996 Mar;148(3):763–75

High-molecular weight IGF-2 expression in a haemangiopericytoma associated with hypoglycaemia. Höög A, et al. **APMIS** 1997 Jun;105(6):469–82 (58 ref.)

Ki-67 and biological behaviour in meningeal haemangiopericytomas. Probst-Cousin S, et al. **Histopathology** 1996 Jul;29(1):57–61

Insulin-like growth factor II expression in primary meningeal hemangiopericytoma and its metastasis to the liver accompanied by hypoglycemia. Sohda T, et al. **Hum Pathol** 1996 Aug;27(8):858–61

Characteristics of tumor cell bioactivity in oncogenic osteomalacia. Nelson AE, et al. **Mol Cell Endocrinol** 1996 Nov 29;124(1–2):17–23

PATHOLOGY

A systemic "dumb-bell" haemangiopericytoma. Tancioni F, et al. **Acta Neurochir (Wien)** 1996;138(7):884–5

Hemangiopericytoma: a report of two cases arising on the lip. Kothari PS, et al. **Br J Oral Maxillofac Surg** 1996 Oct; 34(5):454–6

Primary orbital hemangiopericytoma: a case report. Tsai CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jun; 59(6):382–5

Sinonasal hemangiopericytomas: a clinicopathologic and immunohistochemical study of seven cases. Catalano PJ, et al. **Head Neck** 1996 Jan–Feb;18(1):42–53

Haemangiopericytoma of the nasal cavity. Mangwana S, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):311–2

Hemangiopericytoma of renal sinus expanding to the renal hilum: an unusual presentation causes misinterpretation as transitional cell carcinoma. Choi YJ, et al. **J Korean Med Sci** 1996 Aug;11(4):351–5

The contribution of cytogenetics to the histogenesis of meningeal hemangiopericytoma. Zattara-Cannoni H, et al. **J Neurooncol** 1996 Aug;29(2):137–42

Pericytosis and edema generation: a unique clinicopathological variant of meningioma. Robinson JC, et al. **Neurosurgery** 1996 Oct;39(4):700–6; discussion 706–7

Infantile myofibromatosis with hemangiopericytoma-like features of the tongue: a case study including ultrastructure. Magid MS, et al. **Pediatr Pathol Lab Med** 1997 Mar–Apr; 17(2):303–13

Hemangiopericytoma of the sigmoid mesentery: report of a case with immunohistochemical findings. Nakagawa T, et al. **Surg Today** 1997;27(1):64–7

RADIOGRAPHY

Primary hemangiopericytoma of bone located in the tibia. Sahin-Akyar G, et al. **Skeletal Radiol** 1997 Jan;26(1):47–50

[Primary pulmonary hemangiopericytoma detected on routine chest X-ray examination] Tokumoto H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Oct; 34(10):1125–9 (Eng. Abstr.) **(Jpn)**

SECONDARY

Insulin-like growth factor II expression in primary meningeal hemangiopericytoma and its metastasis to the liver accompanied by hypoglycemia. Sohda T, et al. **Hum Pathol** 1996 Aug;27(8):858–61

Meningeal hemangiopericytoma metastatic to the heart. Masui T, et al. **Radiat Med** 1996 Mar–Apr;14(2):91–4

SURGERY

Outcome of 31 intracranial haemangiopericytomas: poor predictive value of cell proliferation indices. Vuorinen V, et al. **Acta Neurochir (Wien)** 1996;138(12):1399–408

Hemangiopericytoma of the chest wall. Yanagihara K, et al. **Ann Thorac Surg** 1997 Feb;63(2):537–9

Primary hemangiopericytoma in the axis bone: case report and review of literature. Lin YJ, et al. **Neurosurgery** 1996 Aug;39(2):397–9; discussion 399–400 (32 ref.)

[Malignant hemangiopericytoma of the pelvis: treatment using internal hemipelvectomy] Heymans O, et al. **Acta Orthop Belg** 1997 Mar;63(1):40–2 (Eng. Abstr.) **(Fre)**

[Hemangiopericytoma of the infratemporal fossa of nasopharyngeal manifestation. Value of the cervico-transoral approach] Hémar P, et al. **Rev Laryngol Otol Rhinol (Bord)** 1996;117(5):381–4 (14 ref.) (Eng. Abstr.) **(Fre)**

THERAPY

Haemangiopericytoma: current status, diagnosis and management. Pandey M, et al. **Eur J Surg Oncol** 1997 Aug; 23(4):282–5 (56 ref.)

Congenital hemangiopericytoma/infantile myofibromatosis: radical surgery versus a conservative "wait and see" approach. Toren A, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):387–93

ULTRASTRUCTURE

Infantile myofibromatosis with hemangiopericytoma-like features of the tongue: a case study including ultrastructure. Magid MS, et al. **Pediatr Pathol Lab Med** 1997 Mar–Apr; 17(2):303–13

VETERINARY

Immunohistochemical characterization of hemangiopericytomas and other spindle cell tumors in the dog. Pérez J, et al. **Vet Pathol** 1996 Jul;33(4):391–7

HEMANGIOSARCOMA

Primary hemangiosarcoma of the mediastinum. Kardamakis D, et al. **Lung Cancer** 1996 Dec;16(1):81–6

Angiosarcoma of the chest wall. Suzuki T, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):213–5

[Hemangioma, angiosarcoma] Fukushige J. **Ryoikibetsu Shokogun Shirizu** 1996;(14):455–7 (10 ref.) **(Jpn)**

[Hemangioma of the heart, angiosarcoma of the heart] Tadehara F, et al. **Ryoikibetsu Shokogun Shirizu** 1996; (14):237–40 (19 ref.) **(Jpn)**

CHEMICALLY INDUCED

Thorotrast and the liver--revisited. Srinivasan R, et al. **J Toxicol Clin Toxicol** 1997;35(2):199–202

Vinylchloride monomer exposure by the plastic industry workers basic condition for liver angiosarcoma appearance. Hozo I, et al. **Med Arh** 1996;50(1–2):9–14

Epidemiologic notes and reports. Angiosarcoma of the liver among polyvinyl chloride workers--Kentucky. 1974 [classical article] **MMWR Morb Mortal Wkly Rep** 1997 Feb 7;46(5):97–101

Two new cases of liver angiosarcoma: history and perspectives of liver angiosarcoma among plastic industry workers. Hozo I, et al. **Toxicol Ind Health** 1997 Sep–Oct; 13(5):639–47

CHEMISTRY

An immunocytochemical assessment of 19 cases of cutaneous angiosarcoma. Orchard GE, et al. **Histopathology** 1996 Mar;28(3):235–40

COMPLICATIONS

Plexiform neurofibromatosis and angiosarcoma of the liver in von Recklinghausen disease. Andreu V, et al. **Am J Gastroenterol** 1997 Jul;92(7):1229–30

Angiosarcoma of the heart presenting as fatal pulmonary hemorrhage. Ebi N, et al. **Intern Med** 1997 Mar;36(3):191–3

Diffuse alveolar hemorrhage caused by lung metastasis of ovarian angiosarcoma. Nara M, et al. **Intern Med** 1996 Aug; 35(8):653–6

Intra-abdominal haemorrhage from mesenteric angiosarcoma. Shaper NJ, et al. **J R Soc Med** 1996 Nov; 89(11):644–5

Continuous subcutaneous infusion of ketorolac in cancer neuropathic pain unresponsive to opioid and adjuvant drugs. A case report. Ripamonti C, et al. **Tumori** 1996 Jul–Aug;82(4):413–5

[Surprising finding of a hepatic hemangiosarcoma with concomitant peliosis hepatis] Scherer G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):305–8 **(Ger)**

[A case of hepatic angiosarcoma associated with idiopathic portal hypertension] Oshimoto H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):573–7 **(Jpn)**

DIAGNOSIS

Angiosarcoma at unusual sites. A report of two cases with aspiration cytology and diagnostic pitfalls. Mullick SS, et al. **Acta Cytol** 1997 May–Jun;41(3):839–44

Malignant hemangioendothelioma (angiosarcoma) of the skull: plain film, CT, and MR appearance. Bourekas EC, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec; 17(10):1946–8

Bilateral angiosarcoma of the breast on MR imaging. Marchant LK, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1009–10

Multicentric epithelioid angiosarcoma of the bone. Pitfalls in clinical and morphological diagnosis. Balicki D, et al. **Blood Cells Mol Dis** 1996;22(3):205–13

Primary cardiac angiosarcoma: clinical and pathological diagnostic problems. Afzal MN, et al. **Can J Cardiol** 1997 Mar;13(3):293–6

Dermatofibrosarcoma protuberans as a diagnostic pitfall in fine-needle aspiration diagnosis of angiosarcoma of the breast [letter] Kocjan G, et al. **Diagn Cytopathol** 1996 Feb; 14(1):94–5

Cutaneous epithelioid angiosarcoma: a potential diagnostic trap for cytopathologists. Ng WK, et al. **Diagn Cytopathol** 1997 Feb;16(2):160–6; discussion 166–7

Angiosarcoma of the breast: mammographic, sonographic, and pathological findings. Schnarkowski P, et al. **Eur J Radiol** 1997 Jan;24(1):54–6

Pseudomesotheliomatous angiosarcoma: a pleuropulmonary lesion simulating malignant pleural mesothelioma. Falconieri G, et al. **Histopathology** 1997 May;30(5):419–24

Primary epithelioid angiosarcoma of the lung presenting as

pulmonary hemorrhage. Sheppard MN, et al. **Hum Pathol** 1997 Mar;28(3):383–5

Angiosarcoma. Vonderheide RH, et al. **J Clin Oncol** 1997 Apr;15(4):1708–9

Primary angiosarcoma of the rib. Batt H, et al. **South Med J** 1997 Apr;90(4):454–6 (8 ref.)

Mesenteric tumor emboli manifested as recurrent abdominal pain. Duckworth C, et al. **South Med J** 1997 Apr; 90(4):419–22

[Clinical case of the month. Primary sarcoma of the pulmonary artery] Pestieau S, et al. **Rev Med Liege** 1996 Nov;51(11):681–3 **(Fre)**

[Splenomegaly and portal hypertension of unusual etiology in a 62–year–old patient] Zahner J, et al. **Internist (Berl)** 1996 Aug;37(8):844–7 **(Ger)**

[Angioleiomyosarcoma of the lung––primary tumor or metastasis?] Schlittenbauer M, et al. **Pneumologie** 1996 Feb; 50(2):215–8 (Eng. Abstr.) **(Ger)**

[A case of hepatic hemangiosarcoma in which heterogeneous MRI findings were useful for diagnosis] Oba S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jan;94(1):49–55 (13 ref.) **(Jpn)**

[Angiosarcoma of the spleen (letter)] Marín Pérez–Tabernero A, et al. **Rev Esp Enferm Dig** 1997 Jan;89(1):70–1 **(Spa)**

DRUG THERAPY

Hepatic angiosarcoma in a child: successful therapy with surgery and adjuvant chemotherapy. Gunawardena SW, et al. **Med Pediatr Oncol** 1997 Feb;28(2):139–43

EPIDEMIOLOGY

Occupationally related angiosarcoma of the liver in the United Kingdom 1972–1994. Lee FI, et al. **Gut** 1996 Aug; 39(2):312–8

Angiosarcoma of the liver in Great Britain in proximity to vinyl chloride sites. Elliott P, et al. **Occup Environ Med** 1997 Jan;54(1):14–8

ETIOLOGY

Radiation–associated angiosarcoma of the small bowel. A case of multiploidy and a fulminant clinical course. Case report. Hansen SH, et al. **APMIS** 1996 Dec;104(12):891–4

Angiosarcoma occurring with chronic osteomyelitis and residual foreign material: case report of a late World War II wound complication. Schneider T, et al. **Aust N Z J Surg** 1997 Aug;67(8):576–8

Angiosarcoma of the scalp associated with renal transplantation. Kibe Y, et al. **Br J Dermatol** 1997 May; 136(5):752–6 (24 ref.)

Radiation–associated angiosarcoma: diagnostic and therapeutic implications––two case reports and a review of the literature [letter; comment] Perin T, et al. **Cancer** 1997 Aug 1;80(3):519–21. Comment on: Cancer 1996 Jun 15;77(12):2496–502.

A patient with classical Kaposi's sarcoma and angiosarcoma: bad luck or a common aetiology? Steiner MC, et al. **Clin Oncol (R Coll Radiol)** 1997;9(3):186–8

Angiosarcoma of the breast after conservative surgery and radiation therapy for breast carcinoma: three new cases [letter] Molitor JL, et al. **Eur J Cancer** 1996 Sep; 32A(10):1820

Angiosarcoma of the bladder after therapeutic irradiation for prostate cancer. Navon JD, et al. **J Urol** 1997 Apr; 157(4):1359–60

Stewart–Treves angiosarcoma of arm and ipsilateral breast in post–traumatic lymphedema. Trattner A, et al. **Lymphology** 1996 Jun;29(2):57–9

Disseminated angiosarcoma presenting as a hemophagocytic syndrome in a renal allograft recipient. Dargent JL, et al. **Transpl Int** 1997;10(1):61–4

[Angiosarcoma arising from an arterio–venous fistula in a renal transplant recipient. An unusual complication] Medioni LD, et al. **Ann Pathol** 1996;16(3):200–2 (19 ref.) (Eng. Abstr.) **(Fre)**

[Angiosarcoma of the breast after breast–preserving therapy of invasive ductal carcinoma] Friedrich M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):195–7 **(Ger)**

GENETICS

p53 gene mutation pattern in rat liver tumors induced by vinyl chloride. Barbin A, et al. **Cancer Res** 1997 May 1; 57(9):1695–8

Connexin 37 mutations in rat hepatic angiosarcomas induced by vinyl chloride. Saito T, et al. **Cancer Res** 1997 Feb 1; 57(3):375–7

Mutations of p53 tumor–suppressor gene in angiosarcoma. Naka N, et al. **Int J Cancer** 1997 Jun 11;71(6):952–5

Sporadic and Thorotrast–induced angiosarcomas of the liver manifest frequent and multiple point mutations in K–ras–2. Przygodzki RM, et al. **Lab Invest** 1997 Jan;76(1):153–9

PATHOLOGY

Cytologic evaluation of primary malignant vascular tumors of the liver. One case each of angiosarcoma and epithelioid hemangioendothelioma. Cho NH, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1468–76

Cytologic findings in a case of postirradiation angiosarcoma of the breast [letter] Layfield LJ, et al. **Acta Cytol** 1997 Mar–Apr;41(2):612–4

Fine needle aspiration of primary angiosarcoma of bone [letter] Schindler S, et al. **Acta Cytol** 1997 Jul–Aug; 41(4):1225–8

Multiple retiform hemangioendotheliomas. A low–grade angiosarcoma. Duke D, et al. **Am J Dermatopathol** 1996 Dec;18(6):606–10

Malignant hemangioendothelioma: a case of sudden unexpected death in infancy. Perrot LJ. **Am J Forensic Med Pathol** 1997 Mar;18(1):96–9

Epithelioid angiosarcoma of the breast. Clinicopathological, immunohistochemical, and ultrastructural study of a case. Macías–Martínez V, et al. **Am J Surg Pathol** 1997 May; 21(5):599–604

Further evidence supporting the sinus lining cell nature of splenic littoral cell angiosarcoma [letter] Rosso R, et al. **Am J Surg Pathol** 1996 Dec;20(12):1531

Angiosarcoma arising in a solitary schwannoma (neurilemoma) of the sciatic nerve. Trassard M, et al. **Am J Surg Pathol** 1996 Nov;20(11):1412–7

Cutaneous angiosarcomas with a starry–sky pattern. Smith KJ, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):980–4

Establishment of an in vitro cell derived from human angiosarcoma. Hisa T, et al. **Bull Cancer** 1996 Jul; 83(7):589–91

Transesophageal echocardiography–guided transvenous endomyocardial biopsy used to diagnose primary cardiac angiosarcoma. Hammoudeh AJ, et al. **Cathet Cardiovasc Diagn** 1996 Mar;37(3):347–9

Comparative aspects of nonmelanoma skin cancer. Walder EJ. **Clin Dermatol** 1995 Nov–Dec;13(6):569–78 (21 ref.)

Malignant peripheral nerve sheath tumour with vascular differentiation: a report of four cases. Morphopoulos GD, et al. **Histopathology** 1996 May;28(5):401–10 (41 ref.)

An immunocytochemical assessment of 19 cases of cutaneous angiosarcoma. Orchard GE, et al. **Histopathology** 1996 Mar;28(3):235–40

Angiosarcomas of the breast developing post radiotherapy. Parham DM, et al. **Histopathology** 1997 Aug;31(2):189–95

Epithelioid angiosarcoma of bone. Hasegawa T, et al. **Hum Pathol** 1997 Aug;28(8):985–9

Renal angiosarcoma: a case report. Hiratsuka Y, et al. **Int J Urol** 1997 Jan;4(1):90–3 (22 ref.)

Superinfected cutaneous angiosarcoma: a highly malignant neoplasm simulating an inflammatory process. Díaz–Cascajo C, et al. **J Cutan Pathol** 1997 Jan;24(1):56–60

Angiosarcoma which developed on the abdominal wall: report of a case. Funaki M, et al. **J Dermatol** 1997 May; 24(5):342–4 (6 ref.)

Angiosarcoma of the head and neck. el–Sharkawi S. **J Laryngol Otol** 1997 Feb;111(2):175–6

Angiosarcoma of the liver: MR imaging pre– and post–chemotherapy. Worawattanakul S, et al. **Magn Reson Imaging** 1997;15(5):613–7

Angiosarcoma of the scalp. Visor RL, et al. **Otolaryngol Head Neck Surg** 1997 Jul;117(1):138

Hemangiosarcoma of the spleen. Report of a case. Reale A, et al. **Pathologica** 1996 Feb;88(1):49–51

Splenomegaly. al–Omishy H, et al. **Postgrad Med J** 1997 Feb; 73(856):125–6

Epithelioid angiosarcoma of the thyroid. Clinicopathological analysis of seven cases from non–Alpine areas. Maiorana A, et al. **Virchows Arch** 1996 Oct;429(2–3):131–7

[Clinico–pathologic spectrum of cutaneous angiosarcoma and the difficulties of pathologic diagnosis] Laporte JL, et al. **Ann Pathol** 1996 Sep;16(4):247–53 (62 ref.) **(Fre)**

[Early stage Stewart–Treves syndrome: report of 2 cases and review of the literature] Bisceglia M, et al. **Pathologica** 1996 Dec;88(6):483–90 (97 ref.) (Eng. Abstr.) **(Ita)**

[A case of malignant hemangioendothelioma of the lung with rapid growth of pulmonary metastasis] Tatsuta M, et al. **Kyobu Geka** 1997 Apr;50(4):321–4 (5 ref.) (Eng. Abstr.) **(Jpn)**

RADIOGRAPHY

Primary sarcoma of the aortic wall. Hashimoto M, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):322–3

Renal angiosarcoma: a case report. Hiratsuka Y, et al. **Int J Urol** 1997 Jan;4(1):90–3 (22 ref.)

RADIOTHERAPY

Oral pilocarpine improves radiotherapy–induced dry eyes. Kumar S, et al. **Clin Oncol (R Coll Radiol)** 1997;9(1):62–3

Lead contact lens for crystalline lens shielding in electron therapy for eyelid tumors. Kishi K, et al. **Radiat Med** 1996 Mar–Apr;14(2):107–9

SECONDARY

Diffuse alveolar hemorrhage caused by lung metastasis of ovarian angiosarcoma. Nara M, et al. **Intern Med** 1996 Aug; 35(8):653–6

A case of angiosarcoma of the breast. Ohta M, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):91–4

[Angioleiomyosarcoma of the lung––primary tumor or metastasis?] Schlittenbauer M, et al. **Pneumologie** 1996 Feb; 50(2):215–8 (Eng. Abstr.) **(Ger)**

[Wilson–Jones type angiosarcoma with marked response to intrapleural administration of interleukin–2] Yamada Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1441–5 (Eng. Abstr.) **(Jpn)**

SURGERY

Hepatic angiosarcoma in a child: successful therapy with surgery and adjuvant chemotherapy. Gunawardena SW, et al. **Med Pediatr Oncol** 1997 Feb;28(2):139–43

Primary angiosarcoma of the brain: case report. Antoniadis C, et al. **Neurosurgery** 1996 Mar;38(3):583–5; discussion 585–6

Right ventricular bypass for palliation of cardiac sarcoma. Calderón M, et al. **Tex Heart Inst J** 1996;23(2):178–9

[Heart angiosarcoma and heart transplantation. Report of a case] Almenar L, et al. **Rev Esp Cardiol** 1996 Jul; 49(7):539–41 (Eng. Abstr.) **(Spa)**

THERAPY

Primary cardiac angiosarcoma: 53 months' survival after multidisciplinary therapy. Nakamichi T, et al. **Ann Thorac Surg** 1997 Apr;63(4):1160–1

Primary sarcoma of pulmonary artery and valve: multimodality treatment by chemotherapy and homograft replacement. Zerkowski HR, et al. **J Thorac Cardiovasc Surg** 1996 Oct;112(4):1122–4 (12 ref.)

[Primary angiosarcoma of the breast. Apropos of 2 cases] Melhouf MM, et al. **Bull Cancer** 1997 Feb;84(2):218–22 (55 ref.) (Eng. Abstr.) **(Fre)**

[Angiosarcoma of the breast. Apropos of 8 cases and review of the literature] Molitor JL, et al. **Bull Cancer** 1997 Feb; 84(2):206–11 (44 ref.) (Eng. Abstr.) **(Fre)**

[Wilson–Jones type angiosarcoma with marked response to intrapleural administration of interleukin–2] Yamada Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1441–5 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Cardiac angiosarcoma. Ohtahara A, et al. **Intern Med** 1996 Oct;35(10):795–8 (7 ref.)

Angiosarcomas of the interatrial septum mimicking atrial myxomas. Rodrigues AG, et al. **J Am Soc Echocardiogr** 1996 Mar–Apr;9(2):209–12 (10 ref.)

[Primary right atrial hemangiosarcoma manifesting as cardiac tamponade: a case report with transesophageal echocardiography] Kihara H, et al. **J Cardiol** 1996 Jun; 27(6):329–33 (Eng. Abstr.) **(Jpn)**

VETERINARY

Ocular neoplasms of vascular origin in the horse. Bolton JR, et al. **Equine Vet J Suppl** 1990 Sep;(10):73–5

Injury models of the vascular endothelium: apoptosis and loss of thromboresistance induced by a viral protein. Eldor A, et al. **Haemostasis** 1996 Oct;26 Suppl 4:37–45 (46 ref.)

Intraosseous hemangiosarcoma with metastasis in a three–month–old llama. Hamir AN, et al. **J Vet Diagn Invest** 1997 Apr;9(2):210–3

Surgery and doxorubicin in dogs with hemangiosarcoma. Ogilvie GK, et al. **J Vet Intern Med** 1996 Nov–Dec; 10(6):379–84

Critical appraisal meets clinical reality: evaluating evidence in the literature using canine hemangiosarcoma as an example. Bonnett B, et al. **Vet Clin North Am Small Anim Pract** 1996 Jan;26(1):39–61 (53 ref.)

Haemangiosarcoma of the conjunctiva of a giant panda [letter] Lopez M, et al. **Vet Rec** 1996 Jan 6;138(1):24

[A pony with a metastasized hemangiosarcoma] Geelen SN, et al. **Tijdschr Diergeneeskd** 1996 Oct 1;121(19):544–6 (Eng. Abstr.) **(Dut)**

VIROLOGY

Detection of Kaposi's sarcoma–associated herpesvirus–like DNA sequence in angiosarcoma. McDonagh DP, et al. **Am J Pathol** 1996 Oct;149(4):1363–8

Sequences of human herpesvirus 8 are not detected in various non–Kaposi sarcoma vascular lesions [letter] Lebbé C, et al. **Arch Dermatol** 1997 Jul;133(7):919–20

Herpesvirus–like DNA sequences in classic Kaposi's sarcoma and angiosarcoma in Japan [letter] Koizumi H, et al. **Br J Dermatol** 1996 Dec;135(6):1009–10

Absence of human herpesvirus–8 DNA in angiosarcomas and other skin tumours in immunocompetent patients, and in graft–versus–host disease in the immunosuppressed recipients of bone marrow transplants [letter] Takata M, et al. **Br J Dermatol** 1997 Jul;137(1):156–7

Absence of Kaposi's sarcoma–associated herpesvirus–like DNA sequences in malignant vascular tumors of the serous membranes. Lin BT, et al. **Mod Pathol** 1996 Dec; 9(12):1143–6

HEMARTHROSIS

COMPLICATIONS

Acute compartment syndrome in ruptured Baker's cyst. Krome J, et al. **J South Orthop Assoc** 1997 Summer; 6(2):110–4

DIAGNOSIS

Cuff tear arthropathy with hemarthrosis. A report on 3 elderly patients. Sjödén GO, et al. **Acta Orthop Scand** 1996 Dec;67(6):571–4

Magnetic resonance imaging, scintigraphy, and arthroscopic evaluation of traumatic hemarthrosis of the knee. Adalberth

T, et al. **Am J Sports Med** 1997 Mar–Apr;25(2):231–7
Clinical and radiological assessment of haemophilic arthropathy in children [letter] Celiker R, et al. **Clin Rheumatol** 1997 Jan;16(1):109–10
Evolving stages of lipohemarthrosis of the knee. Sequential magnetic resonance imaging findings in cadavers with clinical correlation. Ryu KN, et al. **Invest Radiol** 1997 Jan; 32(1):7–11
Synovial hemangioma of the knee. Price NJ, et al. **J Pediatr Orthop** 1997 Jan–Feb;17(1):74–7 (21 ref.)
Hemarthrosis of the knee and bone contusion. Ariyoshi M, et al. **Kurume Med J** 1997;44(2):135–9
Pseudotumor and arthropathy in the knees of a hemophiliac. Gaary E, et al. **Skeletal Radiol** 1996 Jan;25(1):85–7 (18 ref.)
[MRI in hemarthrosis of the knee joint: assessment of cause of bleeding, injury pattern and therapy] Bachmann G, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):270–5 (Eng. Abstr.) **(Ger)**
[Traumatic hemarthrosis of the knee joint—clinical significance of nuclear magnetic resonance tomography] Jürgensen I, et al. **Unfallchirurg** 1996 Sep;99(9):665–70 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

[Intra-articular oxygen administration in the combined treatment of hemophilic arthropathies] Chantsev AV, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):80–1 **(Rus)**

ETIOLOGY

Minimal trauma knee hemarthrosis. Ames PR, et al. **Bull Hosp Jt Dis** 1996;54(4):258–60
Spontaneous recurrent hemarthrosis of the knee with lesion of the lateral meniscus and arthrosis of the lateral compartment. Pellacci F, et al. **Chir Organi Mov** 1997 Jan–Mar;82(1):69–72 **(Eng, Ita)**
Clinical and radiological assessment of haemophilic arthropathy in children [letter] Celiker R, et al. **Clin Rheumatol** 1997 Jan;16(1):109–10
Haemarthrosis following thrombolytic therapy for acute myocardial infarction. Finlayson J, et al. **Injury** 1997 Mar; 28(2):146–7
Recurrent hemarthrosis after total knee arthroplasty. Kindsfater K, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S52–5
Recurrent hemarthrosis following a total knee arthroplasty. Oishi CS, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S56–8
Recurrent hemarthrosis after total knee arthroplasty. Worland RL, et al. **J Arthroplasty** 1996 Dec;11(8):977–8
Spontaneous recurrent hemarthrosis of the knee joint: endovascular treatment of a ruptured aneurysm with platinum microcoils. A case report. Klein GE, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):594–6
[Recurrent late hemarthrosis after total knee replacement] Hendel D, et al. **Harefuah** 1997 Mar 2;132(5):325–6, 383 (Eng. Abstr.) **(Heb)**

PHYSIOPATHOLOGY

Evolving stages of lipohemarthrosis of the knee. Sequential magnetic resonance imaging findings in cadavers with clinical correlation. Ryu KN, et al. **Invest Radiol** 1997 Jan; 32(1):7–11
Cartilage damage as a result of hemarthrosis in a human in vitro model. Roosendaal G, et al. **J Rheumatol** 1997 Jul; 24(7):1350–4

PREVENTION & CONTROL

Open synovectomy for the prevention of recurrent hemarthrosis of the ankle in patients with hemophilia. A report of five cases with magnetic resonance imaging documentation. Plazanet F, et al. **Rev Rhum Engl Ed** 1997 Mar;64(3):166–71

SURGERY

Arthroscopic synovectomy for recurrent hemarthrosis of the ankle in hemophilia. Patti JE, et al. **Arthroscopy** 1996 Dec; 12(6):652–6
[Complete elbow prosthesis for inflammatory and hemophiliac arthropathy. A retrospective analysis of 22 cases] Chantelot C, et al. **Ann Chir Main Memb Super** 1997; 16(1):49–57 (Eng. Abstr.) **(Fre)**

THERAPY

[The combined conservative and surgical treatment of joint diseases in hemophilia patients] Kargin VD, et al. **Klin Med (Mosk)** 1996;74(2):66 **(Rus)**

ULTRASONOGRAPHY

[The sonographic characteristics of hemophilic arthropathies] Bessmel'tsev SS, et al. **Vestn Khir Im I I Grek** 1996; 155(3):45–8 (Eng. Abstr.) **(Rus)**

HEMATEMESIS

BLOOD

Fibronectin, platelet factor 4 and beta-thromboglobulin in endemic hepatosplenic schistosomiasis: relation to acute hematemesis. el-Bassiouni NE, et al. **Haemostasis** 1997 Jan–Feb;27(1):39–48

CHEMICALLY INDUCED

Relationship between upper gastrointestinal bleeding and non steroidal anti-inflammatory drugs in children. Li Voti G, et al. **Pediatr Surg Int** 1997 Apr;12(4):264–5

ETIOLOGY

Cough-induced Mallory-Weiss tear in a child. Annunziata GM, et al. **Clin Pediatr (Phila)** 1996 Aug;35(8):417–9
Duodenal carcinoid tumour with psammoma bodies: a rare cause of haematemesis. Rämö OJ, et al. **Eur J Surg** 1997 Mar;163(3):227–30
Pedunculated giant hemangioma of liver. Kumarakrishnan S, et al. **Indian J Gastroenterol** 1997 Jan;16(1):35–6
Gastric tuberculosis presenting with hematemesis. Rathnaraj S, et al. **Indian J Gastroenterol** 1997 Jul;16(3):110–1 (3 ref.)
Haematemesis and haemothorax following traumatic rupture of diaphragm--a case report. Singh S, et al. **J Indian Med Assoc** 1995 Nov;93(11):431–2
Strangulated femoral hernia presenting as haematemesis. Rudra T, et al. **J R Soc Med** 1997 May;90(5):275–6
[Hematemesis disclosing hemorrhagic fever with renal syndrome] Cleau D, et al. **Gastroenterol Clin Biol** 1996; 20(12):1129–30 (Eng. Abstr.) **(Fre)**
[46-year-old patient with recurrent hematemesis] Gülberg V, et al. **Internist (Berl)** 1996 May;37(5):515–7 **(Ger)**
[Dens axis fracture, spinal pain and hematemesis] Rexroth G, et al. **Internist (Berl)** 1997 Feb;38(2):160–4 **(Ger)**
[Recurrent hematemesis and hemobilia in ruptured hepatic artery aneurysm--differential diagnostic aspects of acute, upper gastrointestinal hemorrhage] Baartz T, et al. **Leber Magen Darm** 1996 Jan;26(1):42–6 (Eng. Abstr.) **(Ger)**
[Emergency admission with suspected anemia-causing bleeding in the upper gastrointestinal tract (clinical conference)] Schulthess G, et al. **Schweiz Rundsch Med Prax** 1996 Oct 29;85(44):1413–6 (Eng. Abstr.) **(Ger)**

PATHOLOGY

[An autopsy case of rheumatoid arthritis associated with proliferative endarteritis died of sudden severe melaena] Yokoyama T, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Jun;19(3):179–84 (Eng. Abstr.) **(Jpn)**

THERAPY

Endoscopic hemoclipping for duodenal Dieulafoy's lesion [letter; comment] Hokama A, et al. **Am J Gastroenterol** 1996 Nov;91(11):2450. Comment on: Am J Gastroenterol 1996 Apr;91(4):818–9.
Management of haematemesis and melaena. Roberts SK, et al. **Med J Aust** 1997 May 19;166(10):549–53 (41 ref.)

HEMATIN see **HEMIN**

HEMATINICS

Platelet stimulating agents—off the launching pad [news] Nimer SD. **Nat Med** 1997 Feb;3(2):154–5
Proceedings of the roundtable of experts in surgery blood management. Vienna, April 7–9, 1995. **Semin Hematol** 1997 Apr;33(2 Suppl 2):1–80

ADMINISTRATION & DOSAGE

Call for endorsement of a petition to the Food and Drug Administration to always add vitamin B-12 to any folate fortification or supplement [see comments] Herbert V, et al. **Am J Clin Nutr** 1997 Feb;65(2):572–3. Comment in: Am J Clin Nutr 1997 Aug;66(2):450–1.
A safety and efficacy comparison study of two dosing regimens of epoetin alfa in patients undergoing major orthopedic surgery. Goldberg MA, et al. **Am J Orthop** 1996 Aug;25(8):544–52
The effect of folic acid supplementation on the risk for cancer or dysplasia in ulcerative colitis. Lashner BA, et al. **Gastroenterology** 1997 Jan;112(1):29–32
Fortifying food with folic acid [letter] Johnston RB Jr, et al. **J Womens Health** 1997 Apr;6(2):233–4
Folic acid supplementation improves erythropoietin response [letter] Pronai W. **Nephron** 1997;76(1):120
The impact of epoetin alfa on quality of life during cancer chemotherapy: a fresh look at an old problem. Glaspy J. **Semin Hematol** 1997 Jul;34(3 Suppl 2):20–6
Perioperative epoetin alfa increases red blood cell mass and reduces exposure to transfusions: results of randomized clinical trials. Goldberg MA. **Semin Hematol** 1997 Jul;34(3 Suppl 2):41–7 (30 ref.)
[How to evaluate the iron therapy (editorial)] Li R. **Chung Hua Nei Ko Tsa Chih** 1996 Feb;35(2):78–9 **(Chi)**
[Is there an indication for intravenous iron replacement in, for example, by autologous blood donation-induced iron deficiency and is there a theoretically possible indication for intravenous administration for the not approved Ferrum Hausmann preparation?] Kruse HJ, et al. **Internist (Berl)** 1996 Oct;37(10):1059 **(Ger)**
[Vitamin B12-variant in cyanide poisoning. Hydroxycobalamin is a new effective antidote] Personne M, et al. **Lakartidningen** 1997 Mar 5;94(10):877–8 **(Swe)**

BLOOD

Therapeutic, toxic, and lethal concentrations in human fluids of 90 drugs affecting the cardiovascular and hematopoietic systems. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997; 35(4):345–51

CHEMISTRY

Compatibility of iron dextran with neonatal parenteral nutrient solutions. Mayhew SL, et al. **Am J Health Syst Pharm** 1997 Mar 1;54(5):570–1

METABOLISM

Effect of ethanol on folate binding by isolated rat renal brush border membranes. Ross DM, et al. **Alcohol** 1996 Sep–Oct; 13(5):449–54
Cobalamin. Markle HV. **Crit Rev Clin Lab Sci** 1996; 33(4):247–356 (327 ref.)
Hematolymphopoietic and inflammatory cytokines in neural development. Mehler MF, et al. **Trends Neurosci** 1997 Aug; 20(8):357–65 (79 ref.)

PHARMACOKINETICS

Hydroxocobalamin analysis and pharmacokinetics [letter] Osterich JD, et al. **J Toxicol Clin Toxicol** 1997; 35(4):409–15; discussion 417

PHARMACOLOGY

Stimulation of newborn-like hemoglobin synthesis in adult rats by recombinant human erythropoietin and suppression by aspirin. Abdelrahman HG, et al. **Acta Haematol** 1996; 96(4):214–20
Cupric and ferric ions inactivate HIV. Sagripanti JL, et al. **AIDS Res Hum Retroviruses** 1996 Mar 1;12(4):333–7
Dietary folate affects the response of rats to nickel deprivation. Uthus EO, et al. **Biol Trace Elem Res** 1996 Apr;52(1):23–35
[The effect of angelica polysaccharide on proliferation and differentiation of hematopoietic progenitor cell] Wang Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):363–6 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

G-CSF (filgrastim) as an adjunct to MOPP/ABVD therapy in Hodgkin's disease. Gustavsson A. **Acta Oncol** 1997; 36(5):483–8
Genotypic/phenotypic heterogeneity of selective vitamin B12 malabsorption (Grasbeck-Imerslund syndrome) in two Bedouin families. Ismail EA, et al. **Acta Paediatr** 1997 Apr; 86(4):424–5
Severity of AIDS and the response to EPO in uremia. Ifudu O, et al. **Am J Kidney Dis** 1997 Jul;30(1):28–35
Baseline hemoglobin as a predictor of risk of transfusion and response to Epoetin alfa in orthopedic surgery patients. de Andrade JR, et al. **Am J Orthop** 1996 Aug;25(8):533–42
Iron supplementation moderates but does not cure the Belgrade anemia. Garrick M, et al. **Biometals** 1997 Apr; 10(2):65–76
Folate supplementation and methotrexate [letter; comment] Houtman PM. **Br J Rheumatol** 1996 Oct;35(10):1031–2. Comment on: Br J Rheumatol 1995 Dec;34(12):1172–4.
Folic acid to prevent neural tube defects: scientific advances and public health issues. Mills JL, et al. **Curr Opin Obstet Gynecol** 1996 Dec;8(6):394–7 (18 ref.)
Intravenous iron sucrose complex in the treatment of iron deficiency anemia during pregnancy. al-Momen AK, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Nov;69(2):121–4
Normalization of plasma vitamin B12 concentration by intranasal hydroxocobalamin in vitamin B12-deficient patients. Slot WB, et al. **Gastroenterology** 1997 Aug; 113(2):430–3
Suboptimal compliance with periconceptual folic acid in an Irish hospital population. Milner M, et al. **Ir Med J** 1996 Jan–Feb;89(1):28–30
Impact of therapy with epoetin alfa on clinical outcomes in patients with nonmyeloid malignancies during cancer chemotherapy in community oncology practice. Procrit Study Group. Glaspy J, et al. **J Clin Oncol** 1997 Mar; 15(3):1218–34
Chronic administration of iron dextran into the peritoneal cavity of rats. Park SE, et al. **Perit Dial Int** 1997 Mar–Apr; 17(2):179–85
Proceedings of the roundtable of experts in surgery blood management. Vienna, Austria, April 7–9, 1995. **Semin Hematol** 1996 Apr;33(2 Suppl 2):1–80 (0 ref.)
Perisurgical use of epoetin alfa in orthopedic surgery patients. Adamson J. **Semin Hematol** 1997 Apr;33(2 Suppl 2):55–8; discussion 59 (11 ref.)
Erythropoietin, iron metabolism, and red blood cell production. Adamson J. **Semin Hematol** 1997 Apr;33(2 Suppl 2):5–7; discussion 8–9
Epoetin alfa as an adjunct to autologous blood donation in patients with a low hematocrit scheduled for elective orthopedic surgery. Adamson J. **Semin Hematol** 1997 Apr; 33(2 Suppl 2):15–6; discussion 17
Autologous blood donation plus epoetin alfa in nonanemic orthopedic surgery patients. Baudoux E. **Semin Hematol** 1997 Apr;33(2 Suppl 2):31–2; discussion 33
Epoetin alfa as an adjuvant to autologous blood donation. Beris P. **Semin Hematol** 1997 Apr;33(2 Suppl 2):27–9;

HEMATINICS

discussion 30
Epoetin alfa: new directions in orthopedic surgery. Beris P. **Semin Hematol** 1997 Apr;33(2 Suppl 2):60–2; discussion 63
Perioperative epoetin alfa reduces transfusion requirements in coronary artery bypass graft surgery. D'Ambra M. **Semin Hematol** 1997 Apr;33(2 Suppl 2):73; discussion 74
Subcutaneous epoetin alfa as an adjunct to autologous blood donation before elective coronary artery bypass graft surgery. Gombotz H. **Semin Hematol** 1997 Apr;33(2 Suppl 2):69–70; discussion 71–2
Autologous blood donation and epoetin alfa in cancer surgery. Jeekel J. **Semin Hematol** 1997 Apr;33(2 Suppl 2):43–6; discussion 47 (13 ref.)
Effectiveness of perioperative epoetin alfa in patients scheduled for elective hip surgery. Laupacis A. **Semin Hematol** 1997 Apr;33(2 Suppl 2):51–3; discussion 54
Potential of epoetin alfa in patients in autologous blood donation programs for orthopedic surgery. McClelland B. **Semin Hematol** 1997 Apr;33(2 Suppl 2):2–3; discussion 4 (10 ref.)
Epoetin alfa for autologous blood donation in patients with rheumatoid arthritis and concomitant anemia. Mercuriali F. **Semin Hematol** 1997 Apr;33(2 Suppl 2):18–20; discussion 21
Epoetin alfa increases the volume of autologous blood donated by patients scheduled to undergo orthopedic surgery. Mercuriali F. **Semin Hematol** 1997 Apr;33(2 Suppl 2):10–2; discussion 13–4
Consensus statement: using epoetin alfa to decrease the risk of allogeneic blood transfusion in the surgical setting. Roundtable of Experts in Surgery Blood Management. Messmer K. **Semin Hematol** 1997 Apr;33(2 Suppl 2):78–80 (0 ref.)
Improving the outcome of acute normovolemic hemodilution with epoetin alfa. Monk T. **Semin Hematol** 1997 Apr;33(2 Suppl 2):48; discussion 49–50
Enhanced efficacy of autologous blood donation with epoetin alfa. Nydegger U. **Semin Hematol** 1997 Apr;33(2 Suppl 2):39–40; discussion 41–2
Epoetin alfa plus autologous blood donation in patients with a low hematocrit scheduled to undergo orthopedic surgery. Tryba M. **Semin Hematol** 1997 Apr;33(2 Suppl 2):22–4; discussion 25–6
Epoetin alfa plus autologous blood donation and normovolemic hemodilution in patients scheduled for orthopedic or vascular surgery. Tryba M. **Semin Hematol** 1997 Apr;33(2 Suppl 2):34–6; discussion 37–8
Use of epoetin alfa in autologous blood donation programs for patients scheduled for elective cardiac surgery. Walpoth B, et al. **Semin Hematol** 1997 Apr;33(2 Suppl 2):75–6; discussion 77
Teratology Society Consensus Statement on use of folic acid to reduce the risk of birth defects. Holmes L, et al. **Teratology** 1997 Jun;55(6):381 (3 ref.)
Preliminary study of the effect of iron dextran on a non-regenerative anaemia of housed lambs. Green LE, et al. **Vet Rec** 1997 Mar 1;140(9):219–22

URINE

Therapeutic, toxic, and lethal concentrations in human fluids of 90 drugs affecting the cardiovascular and hematopoietic systems. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997; 35(4):345–51

HEMATOCELE

CHEMICALLY INDUCED

Late complications after systemic methotrexate treatment of unruptured ectopic pregnancies: a report of three cases. Zullo F, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27;70(2):213–4

DIAGNOSIS

[A case of chronic scrotal hematocele] Moriyama M, et al. **Hinyokika Kiyo** 1996 Jul;42(7):543–5 (Eng. Abstr.) **(Jpn)**

VETERINARY

Theriogenology question of the month. Scrotal hematocele. Blanchard TL, et al. **J Am Vet Med Assoc** 1996 Dec 15; 209(12):2013–4

HEMATOCHEZIA see **GASTROINTESTINAL HEMORRHAGE**

HEMATOCOLPOS

COMPLICATIONS

Vaginal carcinoma associated with haematocolpos: a case report and review of vaginal adenosis as a precursor lesion. Cook S, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov; 35(4):465–7
Hematocolpos. An unusual cause of sciatica in an adolescent girl. London NJ, et al. **Spine** 1996 Jun 1;21(11):1381–2

ULTRASONOGRAPHY

Rectal sonography for diagnosing hematocolpometra. A case report. Kushnir O, et al. **J Reprod Med** 1997 Aug; 42(8):519–20
An unusual late presentation of hematocolpos diagnosed by sonography [letter] Flam F, et al. **Ultrasound Obstet Gynecol** 1997 May;9(5):353

HEMATOCRIT

Prospective crossover study of the effect of phlebotomy and intravenous crystalloid on hematocrit. Kass LE, et al. **Acad Emerg Med** 1997 Mar;4(3):198–201
Comparison between CDI-100 continuous SO2, Hb, and Hct monitoring, intermittent ABL-4 saturation and Hb monitoring, and lab Hb and Hct monitoring. Nauwynck M, et al. **Acta Anaesthesiol Belg** 1996;47(4):199–206
The effect of intravascular transfusion for severely anemic fetuses on umbilical artery Doppler flow velocity waveforms. Gungor M, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):711–4
Haemorheology in insulin-dependent diabetes is still normal five years after onset of the disease. Sandhagen B, et al. **Acta Paediatr Suppl** 1997 Feb;418:21–3
Postural hemodilution in nephrotic edema: a cause of spurious hemorrhage after renal biopsy. Clive DM. **Am J Kidney Dis** 1997 Apr;29(4):627–30
Improving the efficacy of preoperative autologous blood donation in patients with low hematocrit: a randomized, double-blind, controlled trial of recombinant human erythropoietin. Price TH, et al. **Am J Med** 1996 Aug 26; 101(2A):22S–27S
Nontraditional effects of protein binding and hematocrit on uptake of indocyanine green by perfused rat liver. Ott P, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G227–38
Cerebral O2 transport with hematocrit reduced by cross-linked hemoglobin transfusion. Ulatowski JA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H466–75
Perfusate viscosity and hematocrit determine pulmonary vascular responsiveness to NO synthase inhibitors. Wilson PS, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1757–65
Normalization of hematocrit with recombinant human erythropoietin in chronic hemodialysis patients does not fully improve their exercise tolerance abilities. Suzuki M, et al. **Artif Organs** 1995 Dec;19(12):1258–61
The effect of parathyroidectomy on hematocrit and erythropoietin dose in patients on hemodialysis. Rault R, et al. **ASAIO J** 1996 Sep-Oct;42(5):M901–3
Hematological parameters of the mother and neonatal status during normal labor. Vitoratos N, et al. **Biol Neonate** 1997; 71(3):156–61
Appropriate hematocrit levels of erythropoietin supplementary therapy in end-stage renal failure complicated by coronary artery disease. Nagao K, et al. **Can J Cardiol** 1997 Aug;13(8):747–53 (23 ref.)
Open-heart surgery in Jehovah's Witness patients. Chikada M, et al. **Cardiovasc Surg** 1996 Jun;4(3):311–4
Maternal hematocrit and albumin as predictors of intrauterine growth retardation and preterm delivery. Forest JC, et al. **Clin Biochem** 1996 Dec;29(6):563–6
Effect of blood blow and haematocrit on the relationship between muscle venous PO2 and oxygen uptake in dog maximally contracting gastrocnemius in situ. Kohzuki H, et al. **Clin Exp Pharmacol Physiol** 1997 Feb;24(2):182–7
Haematocrit, plasma volume and noradrenaline in humans during simulated weightlessness for 42 days. Johansen LB, et al. **Clin Physiol** 1997 Mar;17(2):203–10
Haemoglobin, haematocrit, and insulin resistance [letter] Lemne C, et al. **Diabet Med** 1996 Nov;13(11):1000
Reciprocal association between insulin sensitivity and the haematocrit in man. Catalano C, et al. **Eur J Clin Invest** 1997 Jul;27(7):634–7
Existence of a platelet-adhesion defect in patients with cirrhosis independent of hematocrit: studies under flow conditions. Ordinas A, et al. **Hepatology** 1996 Nov; 24(5):1137–42
Hepatic ICG removal in the pig depends on plasma protein and hematocrit: evidence of sinusoidal binding disequilibrium and unstirred water layer effects. Ott P, et al. **Hepatology** 1997 Sep;26(3):679–90
The effect of hematocrit on the efficiency of hemodialysis in cases of chronic renal failure. Nand N, et al. **Indian J Med Sci** 1996 Feb;50(2):29–33
Correlation between laser Doppler perfusion monitoring and hematocrit in hamster cheek pouch microcirculation. Colantuoni A, et al. **Int J Microcirc Clin Exp** 1997 Jan-Feb; 17(1):33–40
Haemoconcentration in neurological decompression illness. Boussuges A, et al. **Int J Sports Med** 1996 Jul;17(5):351–5
Role of hematocrit in the recruitment of pulmonary diffusing capacity: comparison of human and dog [published erratum appears in J Appl Physiol 1996 Jun;80(6):1849] Wu EY, et al. **J Appl Physiol** 1996 Mar;80(3):1014–20
Effects of particle concentration on the partitioning of suspensions at small divergent bifurcations. Ditchfield R, et al. **J Biomech Eng** 1996 Aug;118(3):287–94
Pro: a hematocrit of 20% is adequate to wean a patient from cardiopulmonary bypass. Martineau RJ. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):291–3
Con: a hematocrit of 20% is not adequate for separation from cardiopulmonary bypass. Mossad E, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):294–5
The use of the iSTAT portable analyzer in patients undergoing cardiopulmonary bypass. Connelly NR, et al. **J Clin Monit** 1996 Jul;12(4):311–5
Blood glucose reagent strip tests in the operating room: influence of hematocrit, partial pressure of oxygen, and blood glucose level--a comparison of the BM-test 1-44, BM-Accutest, and Satellite G reagent strip systems. Cross MH, et al. **J Clin Monit** 1996 Jan;12(1):27–33
Blood pressure, insulin, and haematocrit values in Japanese subjects over 60 years of age. Yanagawa T, et al. **J Hum Hypertens** 1997 Jun;11(6):355–9
Increase of fetal hematocrit decreases the middle cerebral artery peak systolic velocity in pregnancies complicated by rhesus alloimmunization. Mari G, et al. **J Matern Fetal Med** 1997 Jul-Aug;6(4):206–8
Higher hematocrit improves cerebral outcome after deep hypothermic circulatory arrest. Shin'oka T, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1610–20; discussion 1620–1
Risk of hemorrhage and appropriate use of blood transfusions in pediatric blunt splenic injuries. Shafi S, et al. **J Trauma** 1997 Jun;42(6):1029–32
Hematologic and body fluid changes during simulated high altitude exposure in naproxen-treated rats. Biswas HM, et al. **Jpn J Physiol** 1996 Feb;46(1):67–73
Activation of ET(A) receptors is partially responsible for the rapid increase in haematocrit induced by bacterial lipopolysaccharide in the rat. Allcock GH, et al. **Life Sci** 1997;60(19):PL 271–6
Mapping genes controlling hematocrit in the spontaneously hypertensive rat. Pravenec M, et al. **Mamm Genome** 1997 Jun;8(6):387–9
Continuous measurements by impedance of haematocrit and plasma volume variations during dialysis. Maasrani M, et al. **Med Biol Eng Comput** 1997 May;35(3):167–71
An index of plasma refilling in hemodialysis patients. Tabei K, et al. **Nephron** 1996;74(2):266–74
Heterophile antibodies to chicken erythrocytes in sheep infected with Trypanosoma congolense. Joshua RA, et al. **Onderstepoort J Vet Res** 1996 Sep;63(3):253–8
Hematocrit in oxygen transport and swimming in rainbow trout (Oncorhynchus mykiss). Gallaugher P, et al. **Respir Physiol** 1995 Dec;102(2–3):279–92
Hemoglobin, hematocrit, and stroke incidence and mortality in women and men [letter] Gillum RF, et al. **Stroke** 1996 Oct;27(10):1910
Early changes in hemoglobin and hematocrit levels after packed red cell transfusion in patients with acute anemia. Elizalde JI, et al. **Transfusion** 1997 Jun;37(6):573–6
Very anemic donors may pass copper sulfate screening tests [letter] Newman B. **Transfusion** 1997 Jun;37(6):670–1
Interference of angiotensin-converting enzyme inhibitors on erythropoiesis in kidney transplant recipients: role of growth factors and cytokines. Morrone LF, et al. **Transplantation** 1997 Sep 27;64(6):913–8
Hemolysis of albunex-supplemented, 40% hematocrit human erythrocytes in vitro by 1-MHz pulsed ultrasound: acoustic pressure and pulse length dependence. Brayman AA, et al. **Ultrasound Med Biol** 1996;22(7):927–38
Safe hemoglobin or hematocrit levels in surgical patients. Lundsgaard-Hansen P. **World J Surg** 1996 Nov-Dec; 20(9):1182–8
[Continuous monitoring of blood volume change by measuring hematocrit during cardiopulmonary bypass] Horibe M, et al. **Masui** 1996 Feb;45(2):189–93 (Eng. Abstr.) **(Jpn)**
[Change in blood viscosity and hematocrit during cooling of an animal] Lipina OV, et al. **Biofizika** 1996 May-Jun; 41(3):678–80 (Eng. Abstr.) **(Rus)**

METHODS

The spun micro-haematocrit and mean red cell volume are affected by changes in the oxygenation state of red blood cells. Bryner MA, et al. **Clin Lab Haematol** 1997 Jun; 19(2):99–103

VETERINARY

Effect of exogenous somatotropin on hematological variables of lactating cows and their offspring. Eppard PJ, et al. **J Dairy Sci** 1997 Aug;80(8):1582–91
Changes in haematocrit after treatment of uncomplicated canine babesiosis: a comparison between diminazene and trypan blue, and an evaluation of the influence of parasitaemia. Jacobson LS, et al. **J S Afr Vet Assoc** 1996 Jun;67(2):77–82

HEMATO-ENCEPHALIC BARRIER see **BLOOD-BRAIN BARRIER**

HEMATOLOGIC DISEASES

Annual Congress of the German and the Austrian Society of Hematology and Oncology. Dusseldorf, 3–7 October 1996. Abstracts. **Ann Hematol** 1996;73 Suppl 2:A1–197
38th annual meeting of the American Society of Hematology. Orlando, Florida, December 6–10, 1996. Abstract. Part I. **Blood** 1996 Nov 15;88(10 Su 1 Pt 1):1a–786a
38th annual meeting of the American Society of Hematology. Orlando, Florida, December 6–10, 1996. Abstracts. Part 2. **Blood** 1996 Nov 15;88(10 Su 1 Pt 2):1b–399b
Cytokines at the research-clinical interface: potential applications. Holyoake TL. **Blood Rev** 1996 Sep; 10(3):189–200 (117 ref.)
ABC of clinical haematology. Haematological emergencies. Frewin R, et al. **BMJ** 1997 May 3;314(7090):1333–6 (0 ref.)

ABC of clinical haematology. Haematological disorders at the extremes of life. Newland AC, et al. **BMJ** 1997 Apr 26;314(7089):1262–5 (0 ref.)

Annual scientific meeting of the British Society for Haematology. Harrogate, United Kingdom, 14–17 April 1997. Abstracts. **Br J Haematol** 1997 Apr;97 Suppl 1:1–94

Normal aging and patterns of hematologic disease. Freedman ML. **Compr Ther** 1996 May;22(5):304–10 (24 ref.)

Congenital & acquired cytopenias of infancy & childhood. Miller DR. **Compr Ther** 1996 Dec;22(12):788–95 (17 ref.)

26th Annual meeting of the International Society for Experimental Hematology. Cannes, France, August 24–28, 1997. Abstracts. **Exp Hematol** 1997 Aug;25(8):727–926

XXXV Congress of the Italian Society of Hematology. Pavia–Cernobbio, September 10–13, 1995. Abstracts. **Haematologica** 1996 Mar–Apr;81(2 Suppl):1–76

XVth Congress of the French Society of Hematology. Paris, France, February 9–10, 1996. Abstracts. **Hematol Cell Ther** 1996 Feb;38(1):1–158 **(Eng, Fre)**

Cyclin-dependent kinase inhibitors (CKIs) and hematological malignancies. Baghdassarian N, et al. **Hematol Cell Ther** 1996 Aug;38(4):313–23 (79 ref.)

Prevention of fungal infections in hematology patients. Philpott-Howard J. **Infect Control Hosp Epidemiol** 1996 Aug;17(8):545–51 (68 ref.)

26th Congress of the International Society of Haematology. Singapore, 25–29 August 1996. Abstracts [published erratum appears in Int J Hematol 1996 Dec;65(1):93] **Int J Hematol** 1996;64 Suppl 1:S1–202

European Society for Paediatric Haematology and Immunology. 16th annual meeting. May 14–17, 1997, Thessaloniki, Greece. Abstracts. **Pediatr Res** 1997 May; 41(5):727–89

Hematological paraneoplastic syndromes. Staszewski H. **Semin Oncol** 1997 Jun;24(3):329–33 (23 ref.)

[Apoptosis and blood disorders (editorial)] Zhang Z. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):651–2 **(Chi)**

[64th annual meeting of the Swiss Society of Internal Medicine and annual meeting of the Swiss Society of Hematology. Zurich, 21–23 March 1996. Abstracts] **Schweiz Med Wochenschr Suppl** 1996;74:1S–50S **(Fre)**

[The 38th congress of the Japanese Society of Clinical Hematology. Omiya City, Saitama, Japan. November 13–15, 1996. Abstracts] **Rinsho Ketsueki** 1996 Oct; 37(10):871–1243 **(Jpn)**

[Hematologic diseases in the Japanese] Takatsuki K. **Rinsho Ketsueki** 1997 Mar;38(3):162–5 (17 ref.) **(Jpn)**

BLOOD

Plasma levels of activated FVII in various diseases. Yamada A, et al. **Blood Coagul Fibrinolysis** 1996 Nov;7(8):794–8

Reticulocytes in haematological disorders. d'Onofrio G, et al. **Clin Lab Haematol** 1996 Dec;18 Suppl 1:29–34

Quantitation of hemopoietic cell antigens in flow cytometry. Poncelet P, et al. **Eur J Histochem** 1996;40 Suppl 1:15–32 (120 ref.)

Constitutively hyposialylated human T-lymphocyte clones in the Tn-syndrome: binding characteristics of plant and animal lectins. Mrkoci K, et al. **Glycoconj J** 1996 Aug; 13(4):567–73

Abnormal hemoglobins with high oxygen affinity and erythrocytosis. Wajcman H, et al. **Hematol Cell Ther** 1996 Aug;38(4):305–12 (36 ref.)

Enzyme-linked immunosorbent assay for human MRP-8/MRP-14 proteins and their quantitation in plasma of hematological patients. Ivanov GE, et al. **Immunol Lett** 1996 Jan;49(1–2):7–13

Micronucleated erythrocytes in splenectomized patients with and without chemotherapy. Zúñiga G, et al. **Mutat Res** 1996 Dec 12;361(2–3):107–12

Macrophage colony-stimulating factor levels in the plasma of bone marrow aspirate in several hematological malignancies [letter; comment] Denizot Y, et al. **Stem Cells** 1996 May;14(3):363–5. Comment on: Stem Cells 1995 Jul;13(4):421–7.

Serum thrombopoietin level in various hematological diseases. Usuki K, et al. **Stem Cells** 1996 Sep;14(5):558–65

[Diagnostic value of hematopoietic stem cells] Gidáli J, et al. **Orv Hetil** 1997 May 11;138(19):1171–6 (47 ref.) (Eng. Abstr.) **(Hun)**

CHEMICALLY INDUCED

Risk of low red or white blood cell count related to estimated benzene exposure in a rubberworker cohort (1940–1975) [see comments] Ward E, et al. **Am J Ind Med** 1996 Mar; 29(3):247–57. Comment in: Am J Ind Med 1996 Mar;29(3):225–6.

Hospitalization for serious blood and skin disorders following use of co-trimoxazole. Myers MW, et al. **Br J Clin Pharmacol** 1997 Apr;43(4):446–8

Hospitalization for serious blood and skin disorders following co-trimoxazole. Myers MW, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):649–51

Benzene-induced hematotoxicity and bone marrow compensation in B6C3F1 mice. Farris GM, et al. **Fundam Appl Toxicol** 1997 Apr;36(2):119–29

A subchronic toxicity study of Rokanol B-2 in rats. Krysiak B, et al. **Int J Occup Med Environ Health** 1996;9(4):351–64

Fever, lymphadenopathy, eosinophilia, lymphocytosis, hepatitis, and dermatitis: a severe adverse reaction to minocycline. MacNeil M, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 2):347–50

Comparison of the hemodynamic and hematologic toxicity of a protamine variant after reversal of low-molecular-weight heparin anticoagulation in a canine model. Hulin MS, et al. **Lab Anim Sci** 1997 Apr; 47(2):153–60

Haematological complications of proguanil in a patient with chronic renal failure [letter] Sirsat RA, et al. **Nephron** 1997; 75(1):108

Hematologic complications of rheumatic disease therapies. George CS, et al. **Rheum Dis Clin North Am** 1997 May; 23(2):425–37 (82 ref.)

COMPLICATIONS

Outbreak of hepatitis C virus infection in patients with hematologic disorders treated with intravenous immunoglobulins: different prognosis according to the immune status. Rossi G, et al. **Blood** 1997 Aug 1; 90(3):1309–14

Cerebrovascular disease as the initial clinical presentation of haematological disorders. Arboix A, et al. **Eur Neurol** 1997; 37(4):207–11

Pathology of malaria with special references to haematological changes in malaria. Solanki RL, et al. **Indian J Pathol Microbiol** 1996 Dec;39(5):391–414

Pneumocystis carinii pneumonia in HIV-negative patients with haematologic disease. van der Lelie J, et al. **Infection** 1997 Mar–Apr;25(2):78–81

HTLV-I and HTLV-II infections in hematologic disorder patients, cancer patients, and healthy individuals from Rio de Janeiro, Brazil. Farias de Carvalho SM, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jul 1;15(3):238–42

Benzydamine hydrochloride (Andolex) improves oral mucosal health in the immunocompromised patient [letter] [published erratum appears in S Afr Med J 1996 Dec;86(12):1566] Solomon C, et al. **S Afr Med J** 1996 Sep; 86(9):1136–7

Hematologic disorders and nonimmune hydrops fetalis. Arcasoy MO, et al. **Semin Perinatol** 1995 Dec;19(6):502–15 (96 ref.)

Malignant hemangioendothelioma of the left calcaneus associated with fever and hematological abnormalities. Rong Y, et al. **Skeletal Radiol** 1997 Jan;26(1):64–6

[Cutaneous manifestations related to malignant hematologic diseases] Aractingi S, et al. **Presse Med** 1997 Apr 26; 26(14):678–83 (25 ref.) **(Fre)**

[Clinical evaluation of cefpirome sulfate for severe infections in patients with hematological disorders. Hanshin Study Group of Hematopoietic Disorders and Infections] Hamazaki H, et al. **Jpn J Antibiot** 1997 Jan;50(1):12–21 (Eng. Abstr.) **(Jpn)**

[Comparison between monotherapy with imipenem/cilastatin sodium (IPM/CS) and combinations of IPM/CS and other drugs for treating bacterial infections in patients with hematopoietic disorders] Sawae Y, et al. **Jpn J Antibiot** 1996 Dec;49(12):1049–61 (Eng. Abstr.) **(Jpn)**

[Clinical efficacy of lomefloxacin for associated infection in patients with hematological diseases] Suzuki T, et al. **Kansenshogaku Zasshi** 1997 Feb;71(2):143–52 (Eng. Abstr.) **(Jpn)**

[Septicemia associated with hematopoietic disorders and its features according to respective primary disorders] Yokota T, et al. **Kansenshogaku Zasshi** 1996 Feb;70(2):108–15 (Eng. Abstr.) **(Jpn)**

[Hyperuricemia in hematological disorders] Iwata J. **Nippon Rinsho** 1996 Dec;54(12):3349–53 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Hematological paraneoplasias in breast cancer] Kozlov DV, et al. **Klin Med (Mosk)** 1997;75(1):14–6 (41 ref.) **(Rus)**

CONGENITAL

Congenital dyserythropoiesis characterized by marked macrocytosis, vitamin B12- and folate-independent megaloblastic change and absence of the defining features of congenital dyserythropoietic anaemia types I or III. Wickramasinghe SN, et al. **Br J Haematol** 1996 Oct; 95(1):73–6

[Intrauterine fetal stem cell transplantation] Pschera H. **Gynakol Geburtshilfliche Rundsch** 1996;36(2):105–7 (21 ref.) (Eng. Abstr.) **(Ger)**

[WHO and hereditary blood diseases. Human genetics programme] Bulyzhenkov VE. **Vestn Ross Akad Med Nauk** 1997;(1):3–4 (16 ref.) **(Rus)**

DIAGNOSIS

Laboratory diagnosis of anemia and related diseases using multivariate analysis. Shiga S, et al. **Am J Hematol** 1997 Feb;54(2):108–17

Blood smears and prenatal diagnosis. Forestier F, et al. **Br J Haematol** 1996 Nov;95(2):278–80

Use and evaluation of leucocyte monoclonal antibodies in the diagnostic laboratory: a review. Reilly JT. **Clin Lab Haematol** 1996 Mar;18(1):1–5 (19 ref.)

Quality control procedures for flow cytometric applications in the hematology laboratory. D'hautcourt JL. **Hematol Cell Ther** 1996 Dec;38(6):467–70

Pseudopyropoikilocytosis: a striking artefact. Bain BJ, et al. **J Clin Pathol** 1996 Sep;49(9):772–3

An enhanced immunocytochemical method for staining bone marrow trephine sections. Erber WN, et al. **J Clin Pathol** 1997 May;50(5):389–93

Limited value of serum holo-transcobalamin II measurements in the differential diagnosis of macrocytosis. Wickramasinghe SN, et al. **J Clin Pathol** 1996 Sep; 49(9):755–8

[Diagnostic and therapeutic splenectomy in hematological diseases] Böhner H, et al. **Dtsch Med Wochenschr** 1997 Feb 7;122(6):163–6 (18 ref.) **(Ger)**

[Hematological emergencies] Tobler A. **Schweiz Rundsch Med Prax** 1997 Feb 18;86(8):302–7 (13 ref.) (Eng. Abstr.) **(Ger)**

[Chromosome analysis and FISH method] Eguchi M, et al. **Rinsho Byori** 1996 Jun;44(6):541–7 (5 ref.) (Eng. Abstr.) **(Jpn)**

[Recent advances in laboratory approaches to hematologic disorders] Kuwajima M, et al. **Rinsho Byori** 1996 Aug; 44(8):727–8 (0 ref.) (Eng. Abstr.) **(Jpn)**

[Diagnostic problems of hematological disorder using automated blood cell analyzer] Watanabe T, et al. **Rinsho Byori** 1996 Aug;44(8):729–35 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Bone marrow MRI in hematological disorders] Heshiki A. **Rinsho Ketsueki** 1997 May;38(5):345–8 (11 ref.) **(Jpn)**

[Hematological "masks" in systemic lupus erythematosus] Krasovskiĭ II, et al. **Ter Arkh** 1997;69(5):58–61 (24 ref.) (Eng. Abstr.) **(Rus)**

[New cytogenetic techniques in hematologic diagnosis (editorial)] Gonzáles Sarmiento R. **Sangre (Barc)** 1996 Jun; 41(3):185–8 **(Spa)**

DRUG THERAPY

Cytokines in the treatment of hematological disorders: recent progress and perspectives. Robak T. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):5–9 (33 ref.)

2-chloro-2'-deoxyadenosine: clinical applications in hematology. Delannoy A. **Blood Rev** 1996 Sep;10(3):148–66 (160 ref.)

Morphological features following G-CSF treatment. Azzarà A, et al. **Haematologica** 1997 Jul–Aug;82(4):504–5

Parenteral iron therapy: indications and safety. Marwaha RK, et al. **Indian Pediatr** 1997 Mar;34(3):261–2

Pharmacokinetic studies of intravenous glycosylated recombinant human granulocyte colony-stimulating factor in various hematological disorders: inverse correlation between the half-life and bone marrow myeloid cell pool. Watari K, et al. **Int J Hematol** 1997 Jul;66(1):57–67

Preliminary observations on the interference of antiblastic agents in membrane fluidity and leukocyte potential. Florio S, et al. **J Chemother** 1996 Oct;8(5):399–402

Effects of different sampling strategies on predictions of blood cyclosporine concentrations in haematological patients with multidrug resistance by Bayesian and non-linear least squares methods. Wu G, et al. **Pharmacol Res** 1995 Dec;32(6):355–62

Desmopressin: twenty years after [letter] Mannucci PM, et al. **Thromb Haemost** 1997 Aug;78(2):958

[Glucocorticoids in hematology and medical oncology] Illiger HJ. **Internist (Berl)** 1997 May;38(5):485–8 **(Ger)**

[Echocardiographic evaluation of cardiotoxicity induced by anthracycline therapy] Okada Y, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):585–9 (Eng. Abstr.) **(Jpn)**

[Experience in the use of Broviac catheters in children with hematologic neoplastic diseases] Swiątkiewicz V, et al. **Pediatr Pol** 1996 Aug;71(8):673–7 (Eng. Abstr.) **(Pol)**

ENZYMOLOGY

Flow cytometry of leucocyte alkaline phosphatase in normal and pathologic leucocytes. Rambaldi A, et al. **Br J Haematol** 1997 Mar;96(4):815–22

EPIDEMIOLOGY

Hematotoxicity among Chinese workers heavily exposed to benzene [see comments] Rothman N, et al. **Am J Ind Med** 1996 Mar;29(3):236–46. Comment in: Am J Ind Med 1996 Mar;29(3):225–6.

Occupational exposures and haematological abnormalities among ordnance factory workers: a case control study. West RR, et al. **Leuk Res** 1997 Jul;21(7):675–80

[Status of the pediatric oncohematologic service in Russia] Rumiantsev AG, et al. **Gematol Transfuziol** 1996 Mar–Apr; 41(2):3–7 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Hematologic disorders and growth factor support in HIV infection. Scadden DT. **Hematol Oncol Clin North Am** 1996 Oct;10(5):1149–61 (100 ref.)

Limited value of serum holo-transcobalamin II measurements in the differential diagnosis of macrocytosis. Wickramasinghe SN, et al. **J Clin Pathol** 1996 Sep; 49(9):755–8

Hematologic complications of human immunodeficiency virus infection and the acquired immunodeficiency syndrome. Coyle TE. **Med Clin North Am** 1997 Mar; 81(2):449–70 (154 ref.)

Risks of beryllium disease related to work processes at a metal, alloy, and oxide production plant. Kreiss K, et al. **Occup Environ Med** 1997 Aug;54(8):605–12

Hematologic disorders in trauma patients during parenteral

alimentation with lipids. Faintuch J, et al.
Rev Hosp Clin Fac Med Sao Paulo 1996 Mar–Apr; 51(2):60–4

Hematologic problems and organ transplantation. Dmitrewski J, et al. **World J Surg** 1996 Nov–Dec; 20(9):1160–5 (43 ref.)

[Hematologic manifestations related to hepatitis A virus. 3 cases] Maiga MY, et al. **Gastroenterol Clin Biol** 1997; 21(4):327–30 (28 ref.) (Eng. Abstr.) **(Fre)**

[Hematologic abnormalities in pulmonary tuberculosiss] Bozóky G, et al. **Orv Hetil** 1997 Apr 27;138(17):1053–6 (Eng. Abstr.) **(Hun)**

[Mutations of c–kit receptor tyrosine kinase in hematologic disease] Ikeda H, et al. **Rinsho Ketsueki** 1997 Mar; 38(3):177–80 (10 ref.) **(Jpn)**

[Thrombopoietin signal transduction via its receptor encoded by c–mpl: its association with hematological diseases] Takatoku M, et al. **Rinsho Ketsueki** 1997 Mar;38(3):203–8 (13 ref.) **(Jpn)**

[Hematologic aspects of heart transplantation] Goncalvesová E, et al. **Bratisl Lek Listy** 1997 May;98(5):253–7 (Eng. Abstr.) **(Slo)**

GENETICS

Activating mutations in cytokine receptors: implications for receptor function and role in disease. Gonda TJ, et al. **Blood** 1997 Jan 15;89(2):355–69 (138 ref.)

Clinical use of B– and T–cell gene rearrangement analysis in hematopoietic disorders. Krause JR. **Clin Lab Med** 1996 Mar;16(1):1–21

A "miniaturized" method for the karyotypic analysis of bone marrow or blood samples in hematological malignancies. Brigaudeau C, et al. **Hematol Cell Ther** 1996 Jul;38(3):275–7

G—>T transition at cDNA nt 110 (K37Q) in the PKLR (pyruvate kinase) gene is the molecular basis of a case of hereditary increase of red blood cell ATP. Beutler E, et al. **Hum Mutat** 1997;9(3):282–5

Analysis of the McLeod syndrome gene in three patients with neuroacanthocytosis. Shizuka M, et al. **J Neurol Sci** 1997 Sep 10;150(2):133–5

Arms and the man or hands and the child: congenital anomalies and hematologic syndromes. Alter BP. **J Pediatr Hematol Oncol** 1997 Jul–Aug;19(4):287–91 (22 ref.)

Does the mechanism of protection from falciparum malaria by red cell genetic disorders involve a switch to a balanced TH1/TH2 cytokine production mode? Bayoumi RA. **Med Hypotheses** 1997 Jan;48(1):11–7

[Detection of numerical chromosomal aberrations in hematopoietic malignancy by in situ hybridization on bone marrow aspirate paraffin sections] Okada T, et al. **Rinsho Byori** 1996 Dec;44(12):1175–82 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Activating mutations in cytokine receptors: implications for receptor function and role in disease. Gonda TJ, et al. **Blood** 1997 Jan 15;89(2):355–69 (138 ref.)

Enzyme–linked immunosorbent assay for human MRP–8/MRP–14 proteins and their quantitation in plasma of hematological patients. Ivanov GE, et al. **Immunol Lett** 1996 Jan;49(1–2):7–13

Haematological reactions in children with food allergy. Zapolska B, et al. **Rocz Akad Med Bialymst** 1995; 40(3):557–60

METABOLISM

General versus subpopulation values in Bayesian prediction of aminoglycoside pharmacokinetics in hematology–oncology patients. Radomski KM, et al. **Am J Health Syst Pharm** 1997 Mar 1;54(5):541–4

The role of metalloproteinases and their inhibitors in hematological disorders. Guedez L, et al. **Crit Rev Oncog** 1996;7(3–4):205–25 (177 ref.)

Molecular understanding of hematopoietin/cytokine receptor signaling defects in hematopoietic disorders. Soede–Bobok AA, et al. **J Mol Med** 1997 Jul;75(7):470–7 (80 ref.)

PATHOLOGY

Hematologic disorders associated with deletions of chromosome 20q: a clinicopathologic study of 107 patients. Kurtin PJ, et al. **Am J Clin Pathol** 1996 Nov;106(5):680–8

Analysis of intramedullary cell density by MRI using the multiple spin–echo technique. Masumoto A, et al. **Am J Hematol** 1997 Jul;55(3):134–8

Staining of the nucleolar organizer regions: relevance in hematology. Baatout S. **Blood Rev** 1996 Sep;10(3):185–8 (33 ref.)

Infrared optoelectronic volumetry, the ideal way to measure limb volume. Tierney S, et al. **Eur J Vasc Endovasc Surg** 1996 Nov;12(4):412–7

Estimation of bone marrow cellularity by means of vertebral magnetic resonance. Rozman M, et al. **Haematologica** 1997 Mar–Apr;82(2):166–70

Apoptosis in blood diseases. Review new data. Binet JL, et al. **Hematol Cell Ther** 1996 Jul;38(3):253–64 (123 ref.)

Pathology of malaria with special references to haematological changes in malaria. Solanki RL, et al. **Indian J Pathol Microbiol** 1996 Dec;39(5):391–414

Haematological validation of a computer–based bone marrow reporting system. Nguyen DT, et al. **J Clin Pathol** 1997 May;50(5):375–8

Characterization of a new hereditary thrombopathy in a closed colony of Wistar rats. Smith SV, et al. **J Lab Clin Med** 1996 Dec;128(6):601–11

Significance of bone marrow stromal cells in hematopoiesis and hematological disorders. Nagao T. **Tokai J Exp Clin Med** 1995 Jul;20(2):121–30 (83 ref.)

PHYSIOPATHOLOGY

Rheumatologic features of hematologic disorders. Mody GM, et al. **Curr Opin Rheumatol** 1996 Jan;8(1):57–61 (27 ref.)

Fever and neutropenia in children with malignant disease. Roguin A, et al. **Pediatr Hematol Oncol** 1996 Nov–Dec; 13(6):503–10

PREVENTION & CONTROL

High–dose carboplatin, etoposide and melphalan (CEM) with peripheral blood progenitor cell support as late intensification for high–risk cancer: non–haematological, haematological toxicities and role of growth factor administration. Benedetti Panici P, et al. **Br J Cancer** 1997; 75(8):1205–12

Reducing chemotherapy–associated toxicity in elderly cancer patients. Zagonel V, et al. **Cancer Treat Rev** 1996 May; 22(3):223–44 (135 ref.)

Role of splenectomy in chronic lymphocytic leukemia. Cusack JC Jr, et al. **J Am Coll Surg** 1997 Sep;185(3):237–43

[Clinical use of Amifostine (WR–2721) as a preparation protecting healthy tissues from the cytotoxic effects of chemotherapy and radiation therapy] Wrembel–Wargocka J, et al. **Przegl Lek** 1996;53(11):820–5 (15 ref.) (Eng. Abstr.) **(Pol)**

PSYCHOLOGY

A memorial service for families of children who died from cancer and blood disorders. Heiney SP, et al. **J Pediatr Oncol Nurs** 1996 Apr;13(2):72–9; discussion 80

[Methods of coping with the disease and treatment in children with neoplastic blood diseases] Szweda E, et al. **Pediatr Pol** 1996 Aug;71(8):655–8 (Eng. Abstr.) **(Pol)**

RADIONUCLIDE IMAGING

[Immunoscintigraphy examination of bone marrow in patients with hematologic diseases] Maturová M, et al. **Vnitr Lek** 1997 Feb;43(2):95–7 (Eng. Abstr.) **(Cze)**

[Echocardiographic evaluation of cardiotoxicity induced by anthracycline therapy] Okada Y, et al. **Gan To Kagaku Ryoho** 1997 Mar;24(5):585–9 (Eng. Abstr.) **(Jpn)**

SURGERY

Elective laparoscopic splenectomy for hematologic disorders. Stephens BJ, et al. **Am Surg** 1997 Aug;63(8):700–3

Role of splenectomy in chronic lymphocytic leukemia. Cusack JC Jr, et al. **J Am Coll Surg** 1997 Sep;185(3):237–43

Laparoscopic or open splenectomy for hematologic disease: which approach is superior? Friedman RL, et al. **J Am Coll Surg** 1997 Jul;185(1):49–54

Comparison of laparoscopic and open splenectomy in children with hematologic disorders [see comments] Farah RR, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):41–6. Comment in: J Pediatr 1997 Jul;131(1 Pt 1):6–7.

Splenectomy for haematological disease. Jameson JS, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):307–11

Indications for and results of splenectomy in different hematological disorders. Böhner H, et al. **Langenbecks Arch Chir** 1997;382(2):79–82

Laparoscopic splenectomy. The emerging standard. Glasgow RE, et al. **Surg Endosc** 1997 Feb;11(2):108–12

Laparoscopic splenectomy by the lateral approach: a safe and effective alternative to open splenectomy for hematologic diseases. Smith CD, et al. **Surgery** 1996 Nov; 120(5):789–94

Emergency surgery in hematologic patients. Gold MS, et al. **World J Surg** 1996 Nov–Dec;20(9):1133–40

Selected hematologic problems in surgical patients—introduction. Rudowski WJ. **World J Surg** 1996 Nov–Dec;20(9):1131–2

Role of splenectomy in hematologic disorders. Schwartz SI. **World J Surg** 1996 Nov–Dec;20(9):1156–9

[Hematologic indications for splenectomy in childhood] Vyhnánek M, et al. **Rozhl Chir** 1997 Apr;76(4):200–2 (Eng. Abstr.) **(Cze)**

[Mesenteric–portal thrombosis after hematologic splenectomy] Kunin N, et al. **J Chir (Paris)** 1996; 133(9–10):453–8 (Eng. Abstr.) **(Fre)**

[Diagnostic and therapeutic splenectomy in hematological diseases] Böhner H, et al. **Dtsch Med Wochenschr** 1997 Feb 7;122(6):163–6 (18 ref.) **(Ger)**

THERAPY

A controlled trial of long–term administration of intravenous immunoglobulin to prevent late infection and chronic graft–vs.–host disease after marrow transplantation: clinical outcome and effect on subsequent immune recovery. Sullivan KM, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):44–53

ABC of clinical haematology. Bone marrow and stem cell transplantation. Duncombe A. **BMJ** 1997 Apr 19; 314(7088):1179–82 (0 ref.)

ABC of clinical haematology. The future of haematology, molecular biology, and gene therapy. Fielding AK, et al. **BMJ** 1997 May 10;314(7091):1396–9 (0 ref.)

Early organ toxicity following allogeneic bone marrow transplantation in congenital hemopathies. Di Bartolomeo P, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:152–6

Clinical results of a stringent policy on prophylactic platelet transfusion: non–randomized comparative analysis in 190 bone marrow transplant patients from a single institution. Gil–Fernández JJ, et al. **Bone Marrow Transplant** 1996 Nov;18(5):931–5

Gene therapy for hematopoietic and immune disorders. Kohn DB. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S55–8 (23 ref.)

Second bone marrow transplant for children who relapsed or rejected their first graft: experience of the Italian Pediatric Hematology and Oncology Group (AIEOP). Miniero R, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:135–8

Minimizing graft rejection in allogeneic T cell–depleted bone marrow transplantation. Rigden JP, et al. **Bone Marrow Transplant** 1996 Nov;18(5):913–9

Endothelial cell markers in bone marrow transplant recipients with and without acute graft–versus–host disease. Salat C, et al. **Bone Marrow Transplant** 1997 May;19(9):909–14

Allogeneic and autologous transplantation for haematological diseases, solid tumours and immune disorders. Current practice in Europe in 1996 and proposals for an operational classification. Accreditation Sub–Committee of the European Group for Blood and Marrow Transplantation (EBMT). Schmitz N, et al. **Bone Marrow Transplant** 1996 Apr;17(4):471–7 (52 ref.)

Short– and long–term follow–up of thyroid dysfunction after allogeneic bone marrow transplantation without the use of preparative total body irradiation. Toubert ME, et al. **Br J Haematol** 1997 Aug;98(2):453–7

Gene therapy for haematopoietic and lymphoid disorders. Kohn DB. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:54–7 (13 ref.)

Bone marrow transplantation for inherited diseases [see comments] O'Marcaigh AS, et al. **Curr Opin Oncol** 1997 Mar;9(2):126–30 (21 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

General principles of management of autoimmune haematological disorders. Ghosh K. **Indian J Med Sci** 1996 May;50(5):138–43

Febrile complications in the first 100 days after bone marrow transplantation in children: a single center's experience. Dell'Orto M, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug; 14(4):335–47

Pediatric hematology/oncology in Russia. Durnov L, et al. **Pediatr Hematol Oncol** 1997 Mar–Apr;14(2):103–7 (8 ref.)

Pediatric oncology and hematology in Manchester, England. Eden OB, et al. **Pediatr Hematol Oncol** 1997 May–Jun; 14(3):191–7 (19 ref.)

Present status of pediatric hematology–oncology in China. Lu S, et al. **Pediatr Hematol Oncol** 1997 Jan–Feb;14(1):11–5 (18 ref.)

Center for Paediatric Haematology and Oncology, University of Trondheim, Trondheim, Norway. Moe PJ. **Pediatr Hematol Oncol** 1997 Mar–Apr;14(2):101–2

St. Jude Children's Research Hospital. Pratt CB. **Pediatr Hematol Oncol** 1997 Jan–Feb;14(1):1–4

Academic pediatrics in the Emma Children's Hospital, Academic Medical Center in Amsterdam (The Netherlands). Stuve W, et al. **Pediatr Hematol Oncol** 1997 May–Jun;14(3):199–203 (3 ref.)

National Antithrombin Investigators Program. Antithrombin Deficiency—Basis for Therapy. Proceedings of a symposium. Phoenix, Arizona, October 21–23, 1995. **Semin Hematol** 1995 Oct;32(4 Suppl 2):1–74

Minimal residual disease post–bone marrow transplantation for hemato–oncological diseases. Toren A, et al. **Stem Cells** 1996 May;14(3):300–11 (80 ref.)

Purging: the separation of normal from malignant cells for autologous transplantation. Champlin R. **Transfusion** 1996 Oct;36(10):910–8 (134 ref.)

[Blood transfusion therapy of hematological diseases (discussion)] **Nippon Naika Gakkai Zasshi** 1996 Jun 10; 85(6):892–913 **(Jpn)**

[Terminal care. II. Easing of symptoms of cancer patients. 5. Management of adverse effects of antineoplastic agents] Kurihara M, et al. **Nippon Naika Gakkai Zasshi** 1996 Dec 10;85(12):2032–8 (5 ref.) **(Jpn)**

[Hematologic diseases and blood transfusion] Ueda T, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):857–61 (4 ref.) **(Jpn)**

[The use of G–CSF in hematological disorders] Dan K. **Rinsho Ketsueki** 1997 May;38(5):367–70 (10 ref.) **(Jpn)**

[Use of interferon alpha in treatment of hematopoietic and lymphatic system diseases (editorial)] Popławska–Szczygłowska L. **Pol Tyg Lek** 1996 May; 51(19–22):257–9 **(Pol)**

[Transplantation of human fetal tissues in hematology] Sukhikh GT, et al. **Biull Eksp Biol Med** 1994 Apr; 117(4):375–7 (20 ref.) **(Rus)**

VETERINARY

Hematologic abnormalities associated with retroviral

infections in the cat. Shelton GH, et al. **Semin Vet Med Surg (Small Anim)** 1995 Nov;10(4):220–33 (86 ref.)

Congenital erythrocyte enzyme deficiencies. Harvey JW. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1003–11 (45 ref.)

VIROLOGY

Hematologic complications of HIV infection. Hambleton J. **Oncology (Huntingt)** 1996 May;10(5):671–80 (68 ref.)

Hematologic manifestations of viral infections. Friedman AD. **Pediatr Ann** 1996 Oct;25(10):555–60 (24 ref.)

HEMATOLOGIC MALIGNANCIES see **HEMATOLOGIC NEOPLASMS**

HEMATOLOGIC NEOPLASMS

see related
LEUKEMIA
LYMPHOMA

Rising incidence of Candida parapsilosis fungemia in patients with hematologic malignancies: clinical aspects, predisposing factors, and differential pathogenicity of the causative strains. Girmenia C, et al. **Clin Infect Dis** 1996 Sep;23(3):506–14

Hematologic malignancies. **Curr Opin Hematol** 1997 Jul; 4(4):B129–73

Hematologic malignancies [editorial] Bernstein I. **Curr Opin Hematol** 1997 Jul;4(4):225–6 (8 ref.)

XVth Congress of the French Society of Hematology. Paris, France, February 9–10, 1996. Abstracts. **Hematol Cell Ther** 1996 Feb;38(1):1–158 **(Eng, Fre)**

BLOOD

Effect of chemotherapy on thyroid hormone concentration in patients with malignant hematologic diseases. Nellen Hummel H, et al. **Arch Med Res** 1997 Summer;28(2):215–7

Immunophenotyping of peripheral blood mononuclear cells collected by cytotoxic and cytotoxic/G–CSF mobilization. Kubota A, et al. **Clin Lab Haematol** 1996 Sep;18(3):181–5

Cost–effectiveness analysis of serum vancomycin concentration monitoring in patients with hematologic malignancies. Fernández de Gatta MD, et al. **Clin Pharmacol Ther** 1996 Sep;60(3):332–40

Leukemia inhibitory factor concentrations in the bone marrow plasma of healthy subjects and patients with hematologic malignancies. Lorgeot V, et al. **Eur Cytokine Netw** 1997 Mar;8(1):57–9

Quantitation of hemopoietic cell antigens in flow cytometry. Poncelet P, et al. **Eur J Histochem** 1996;40 Suppl 1:15–32 (120 ref.)

Pretransplant factor XII levels correlate with prognosis in patients undergoing autologous graft for hematological malignancies. Longo G, et al. **Haematologica** 1997 May–Jun;82(3):360–1

Itraconazole for prophylaxis of systemic mycoses in neutropenic patients with haematological malignancies. Böhme A, et al. **J Antimicrob Chemother** 1996 Dec; 38(6):953–61

Concentrations of serum leukemia inhibitory factor (LIF) in patients with hematologic malignancies [letter] Lorgeot V, et al. **Leukemia** 1997 Feb;11(2):311–2

Serum interferon–gamma and C–reactive protein levels as predictors of acute graft–vs–host disease in allogeneic hematopoietic precursor cell (marrow or peripheral blood progenitor cells) recipients. Lange A, et al. **Transplant Proc** 1996 Dec;28(6):3522–5

[Hypocholesterolemia in hematologic neoplasms] Aixalá M, et al. **Sangre (Barc)** 1997 Feb;42(1):7–10 (Eng. Abstr.) **(Spa)**

[The examination of peripheral blood and bone marrow in the diagnosis of malignant blood diseases] García Marcos MA, et al. **Sangre (Barc)** 1996 Aug;41(4):275–80 (20 ref.) **(Spa)**

[The hematology laboratory in the study of malignant blood diseases. Introduction] San Miguel Izquierdo JF. **Sangre (Barc)** 1996 Aug;41(4):273 **(Spa)**

CHEMICALLY INDUCED

Benzene and blood: one hundred years of evidence [editorial; comment] Landrigan PJ. **Am J Ind Med** 1996 Mar; 29(3):225–6. Comment on: Am J Ind Med 1996 Mar;29(3):227–35. Comment on: Am J Ind Med 1996 Mar;29(3):236–46. Comment on: Am J Ind Med 1996 Mar;29(3):247–57.

Review of epidemiologic evidence on benzene and lymphatic and hematopoietic cancers. Savitz DA, et al. **Am J Ind Med** 1997 Mar;31(3):287–95 (74 ref.)

Benzene poisoning, a risk factor for hematological malignancy, is associated with the NQO1 609C–>T mutation and rapid fractional excretion of chlorzoxazone. Rothman N, et al. **Cancer Res** 1997 Jul 15;57(14):2839–42

Benzene and the dose–related incidence of hematologic neoplasms in China. Chinese Academy of Preventive Medicine––National Cancer Institute Benzene Study Group. Hayes RB, et al. **J Natl Cancer Inst** 1997 Jul 16; 89(14):1065–71

COMPLICATIONS

Spinal cord compression due to extramedullary hematopoiesis in the proliferative phase of polycythemia vera. de Morais JC, et al. **Acta Haematol** 1996;96(4):242–4

Fusarium, a significant emerging pathogen in patients with hematologic malignancy: ten years' experience at a cancer center and implications for management. Boutati EI, et al. **Blood** 1997 Aug 1;90(3):999–1008 (111 ref.)

Predictive ability of creatinine clearance estimate models in pediatric bone marrow transplant patients. Jacobson P, et al. **Bone Marrow Transplant** 1997 Mar;19(5):481–5 (15 ref.)

Amphotericin B lipid complex (ABLC) for the treatment of confirmed or presumed fungal infections in immunocompromised patients with hematologic malignancies. Mehta J, et al. **Bone Marrow Transplant** 1997 Jul;20(1):39–43

Parathyroid hormone–related protein in hypercalcaemia associated with haematological malignancy [see comments] Firkin F, et al. **Br J Haematol** 1996 Sep;94(3):486–92. Comment in: Br J Haematol 1997 Apr;97(1):239–40.

Cefepime/amikacin versus ceftazidime/amikacin as empirical therapy for febrile episodes in neutropenic patients: a comparative study. The French Cefepime Study Group. Cordonnier C, et al. **Clin Infect Dis** 1997 Jan;24(1):41–51

Variability of plasma fluconazole levels in patients with hematologic malignancy. Ellis ME, et al. **Clin Infect Dis** 1997 Jan;24(1):86–7

Guidelines for the investigation of invasive fungal infections in haematological malignancy and solid organ transplantation. British Society for Medical Mycology. Denning DW, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):424–36

Tolerance and efficacy of Amphotericin B inhalations for prevention of invasive pulmonary aspergillosis in haematological patients. Erjavec Z, et al. **Eur J Clin Microbiol Infect Dis** 1997 May;16(5):364–8

Bacteremia due to glucose non–fermenting gram–negative bacilli in patients with hematological neoplasias and solid tumors. Martino R, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):610–5

Risk of reactivation of a recent invasive fungal infection in patients with hematological malignancies undergoing further intensive chemo–radiotherapy. A single–center experience and review of the literature. Martino R, et al. **Haematologica** 1997 May–Jun;82(3):297–304 (38 ref.)

Bacteremia in patients with hematological malignancies. Analysis of risk factors, etiological agents and prognostic indicators. Pagano L, et al. **Haematologica** 1997 Jul–Aug; 82(4):415–9

Endotoxemia in febrile patients with hematological malignancies. Relationship of type of bacteremia, clinical findings and serum cytokine pattern. Engervall P, et al. **Infection** 1997 Jan–Feb;25(1):2–7

Empiric antibiotic monotherapy with carbapenems in febrile neutropenia: a review. Cometta A, et al. **J Chemother** 1996 Oct;8(5):375–81 (27 ref.)

Chronic hepatitis C in long–term survivors of haematological malignancy treated at a single centre [letter; comment] Butler AC. **J Clin Pathol** 1996 Oct;49(10):864. Comment on: J Clin Pathol 1996 Mar;49(3):230–32.

Arbitrary primed PCR rules out Clostridium difficile cross–infection among patients in a haematology unit. Lemann F, et al. **J Hosp Infect** 1997 Feb;35(2):107–15

Comparative analysis of prognostic indicators of aspergillosis in haematological malignancies and HIV infection. Tumbarello M, et al. **J Infect** 1997 Jan;34(1):55–60

The use of immunohistochemistry to improve sensitivity and specificity in the diagnosis of systemic mycoses in patients with haematological malignancies. Jensen HE, et al. **J Pathol** 1997 Jan;181(1):100–5

Oral aspergillosis in compromised patients [letter] Sugata T, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Jun;81(6):632–3

Outpatient antimicrobial protocol for febrile neutropenia: a nonrandomized prospective trial using ceftriaxone, amikacin, and oral adjuvant agents. Sahu S, et al. **Pediatr Hematol Oncol** 1997 May–Jun;14(3):205–11

Pulmonary complications in children with hematologic malignancies: accuracy of diagnosis with chest radiography and CT. Winer–Muram HT, et al. **Radiology** 1997 Sep; 204(3):643–9

Respiratory conditions associated with haematological malignancies [see comments] Wickremasinghe M. **Thorax** 1997 Apr;52(4):390–1. Comment in: Thorax 1997 Apr;52(4):392–3. Comment in: Thorax 1997 Apr;52(4):394–5.

A prospective randomized study of three types of platelet concentrates in patients with haematological malignancy: corrected platelet count increments and frequency of nonhaemolytic febrile transfusion reactions. Anderson NA, et al. **Transfus Med** 1997 Mar;7(1):33–9

[Diagnostic value of serum soluble interleukin–2 receptor levels in interstitial pneumonia of the patients with hematological disorders] Kohda K, et al. **Rinsho Ketsueki** 1997 Feb;38(2):146–8 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Multiparameter immunophenotypic analysis of fine needle aspiration biopsies and other hematologic specimens by laser scanning cytometry. Clatch RJ, et al. **Acta Cytol** 1997 Jan–Feb;41(1):109–22

Comparative utility of diagnostic bone–marrow components: a 10–year study. Barekman CL, et al. **Am J Hematol** 1997 Sep;56(1):37–41

Magnetic resonance imaging of the bone marrow in hematologic malignancies. Moulopoulos LA, et al. **Blood** 1997 Sep 15;90(6):2127–47 (92 ref.)

[Clinical uses of flow cytometry in hematological oncology] D'Ostilio A, et al. **Recenti Prog Med** 1997 Apr;88(4):157–65 (54 ref.) (Eng. Abstr.) **(Ita)**

[Pulmonary complications in hematological diseases] Ichinose Y. **Rinsho Ketsueki** 1997 Mar;38(3):172–6 (5 ref.) **(Jpn)**

[The diagnosis of paraproteinemic hemoblastoses] Lugovskaia SA. **Klin Lab Diagn** 1997 Feb;(2):25–32 **(Rus)**

[Possible use of erythrocyte antioxidant enzymes as markers of the course of disease in patients with hemoblastoses] Kumerova AO, et al. **Vopr Med Khim** 1996 Apr–Jun; 42(2):144–7 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Phase I–II study of high–dose busulfan and cyclophosphamide followed by autologous peripheral blood stem cell transplantation for hematological malignancies: toxicities and hematopoietic recovery. Ballester OF, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):9–14

Severe hepatitis related to chemotherapy in hepatitis B virus carriers with hematologic malignancies. Survey in Japan, 1987–1991. Nakamura Y, et al. **Cancer** 1996 Nov 15; 78(10):2210–5

Phase I/II trial of cure–oriented high–dose chemoradiotherapy with transplantation of CD34+ peripheral blood stem cells purified by the immunomagnetic bead method for refractory hematological malignancies. Nagoya CD34+ PBSCT Study Group. Ogura M, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S51–7

Fludarabine. An update of its pharmacology and use in the treatment of haematological malignancies. Adkins JC, et al. **Drugs** 1997 Jun;53(6):1005–37 (259 ref.)

Cytotoxic activity of cyclosporin A and [3–keto–Bmt1]–[Val2]–cyclosporin (SDZ PSC 833) on tumour cells from patients with haematological malignancies. Martinsson P, et al. **Eur J Clin Pharmacol** 1997;52(3):199–203

Prolonged low doses of oral etoposide may be effective in individual patients with advanced lymphoproliferative disorders refractory to aggressive chemotherapy [letter] Caruso R, et al. **Haematologica** 1997 Jan–Feb;82(1):126–7

All–trans retinoic acid in hematological malignancies, an update. GER (Gruppo Ematologico Retinoidi). Sacchi S, et al. **Haematologica** 1997 Jan–Feb;82(1):106–21 (117 ref.)

Clinical experience with fludarabine in hemato–oncology. Keating MJ, et al. **Hematol Cell Ther** 1996 Dec;38 Suppl 2:S83–91 (61 ref.)

Pharmacology of purine nucleoside analogues. Plunkett W, et al. **Hematol Cell Ther** 1996 Dec;38 Suppl 2:S67–74 (77 ref.)

Cytokine therapy for hematological malignancies. Ezaki K. **Int J Hematol** 1996 Dec;65(1):17–29 (63 ref.)

Preliminary observations on the interference of antiblastic agents in membrane fluidity and leukocyte potential. Florio S, et al. **J Chemother** 1996 Oct;8(5):399–402

Itraconazole for treatment of oral candidosis in pediatric cancer patients. Aanpreung P, et al. **J Med Assoc Thai** 1997 Jun;80(6):358–62

Antisense strategy: biological utility and prospects in the treatment of hematological malignancies. Warzocha K, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):267–81 (101 ref.)

Postchemotherapy connective tissue diseases––more than just rheumatism? [editorial] Amft N, et al. **Lupus** 1996 Aug; 5(4):255–6

The modulation of plasma lipids and lipoproteins during bone marrow transplantation is unrelated to exogenously administered recombinant human granulocyte–monocyte colony–stimulating factor (rHu GM–CSF). Dann EJ, et al. **Med Oncol** 1996 Jun;13(2):81–6

[A new purine analog in the treatment of hematologic malignancy. I. Fludarabine] Vášová I, et al. **Vnitr Lek** 1997 Jan;43(1):45–50 (41 ref.) (Eng. Abstr.) **(Cze)**

[Clinical value of interferon–alpha in the treatment of malignant hematologic diseases (editorial)] Harousseau JL. **Presse Med** 1997 May 31;26(18):857–9 (Eng. Abstr.) **(Fre)**

[Bropirimine (U–54461S) early phase II clinical studies––to investigate the efficacy and safety of bropirimine treatment on various malignant tumors (urological, hematologic, and dermal cancers)] Furue H, et al. **Gan To Kagaku Ryoho** 1997 Jan;24(1):67–75 (Eng. Abstr.) **(Jpn)**

[Effective clinical use of cyclophosphamide in hematological malignancies] Miyazaki H, et al. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1891–5 (11 ref.) (Eng. Abstr.) **(Jpn)**

[TUT–7 early phase II clinical study for various solid tumors and hematologic malignancies] Taguchi T, et al. **Gan To Kagaku Ryoho** 1997 Aug;24(10):1253–61 (Eng. Abstr.) **(Jpn)**

[Doxorubicin–induced myocardial damage in elderly patients with hematologic malignancies] Niitsu N, et al. **Nippon Ronen Igakkai Zasshi** 1997 Jan;34(1):38–42 (Eng. Abstr.) **(Jpn)**

HEMATOLOGIC NEOPLASMS

EPIDEMIOLOGY

Review of epidemiologic evidence on benzene and lymphatic and hematopoietic cancers. Savitz DA, et al. **Am J Ind Med** 1997 Mar;31(3):287–95 (74 ref.)

Elevated incidence of hematologic malignancies in patients with Sjögren's syndrome compared with patients with rheumatoid arthritis (Finland). Kauppi M, et al. **Cancer Causes Control** 1997 Mar;8(2):201–4

Further follow-up of New Zealand participants in United Kingdom atmospheric nuclear weapons tests in the Pacific. Pearce N, et al. **Cancer Causes Control** 1997 Mar; 8(2):139–45

The distribution of leukaemia in association with domestic water quality in south west England. Foster AM, et al. **Eur J Cancer Prev** 1997 Feb;6(1):11–9

Benzene and the dose-related incidence of hematologic neoplasms in China. Chinese Academy of Preventive Medicine--National Cancer Institute Benzene Study Group. Hayes RB, et al. **J Natl Cancer Inst** 1997 Jul 16; 89(14):1065–71

ETIOLOGY

Tobacco smoking and risk of haematological malignancies in adults: a case-control study. Pasqualetti P, et al. **Br J Haematol** 1997 Jun;97(3):659–62

Circulating prostate-specific antigen/CD14-double-positive cells: a biomarker indicating low risk for hematogeneous metastasis of prostate cancer [letter] Brandt B, et al. **J Natl Cancer Inst** 1997 Jan 15;89(2):174

GENETICS

Lineage specificity in haematological neoplasms. Knuutila S. **Br J Haematol** 1997 Jan;96(1):2–11 (130 ref.)

Trisomy 14 is a non-random karyotypic abnormality associated with myeloid malignancies. Toze CL, et al. **Br J Haematol** 1997 Jul;98(1):177–85

XYY male and hematologic malignancy. Oguma N, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):179–81 (22 ref.)

A simplified polymerase chain reaction assay for detection of chromosomal translocations in hematologic malignancies. Poteat HT, et al. **Diagn Mol Pathol** 1997 Feb; 6(1):3–9

Constitutional trisomy 8 as first mutation in multistep carcinogenesis: clinical, cytogenetic, and molecular data on three cases. Seghezzi L, et al. **Genes Chromosomes Cancer** 1996 Oct;17(2):94–101

Detection of numerical aberrations in hematologic neoplasias by fluorescence in situ hybridization. Cuneo A, et al. **Haematologica** 1997 Jan-Feb;82(1):85–90 (61 ref.)

Telomeres and telomerase in human hematologic neoplasia. Yamada O. **Int J Hematol** 1996 Aug;64(2):87–99 (72 ref.)

Molecular analysis of the adenomatous polyposis coli gene in sarcomas, hematological malignancies and noncolonic, neoplastic tissues. Wada M, et al. **J Mol Med** 1997 Feb; 75(2):139–44

Rapid detection of karyotype changes in interphase bone marrow cells by oligonucleotide primed in situ hybridization (PRINS). Wilkens L, et al. **J Pathol** 1997 Apr;181(4):368–73

Correlation of bcl-2 with P-glycoprotein expression in chronic lymphocytic leukaemia and other haematological neoplasms but of neither marker with ex vivo chemosensitivity or patient survival. Bosanquet AG, et al. **Leuk Lymphoma** 1996 Dec;24(1-2):141–7

Microsatellite instability in hematologic malignancies. Gartenhaus RB. **Leuk Lymphoma** 1997 May;25(5-6):455–61 (38 ref.)

Inactivation of the p15INK4B and p16INK4 genes in hematologic malignancies. Heyman M, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):235–45 (161 ref.)

p16ink4a gene and hematological malignancies. Quesnel B, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):11–24 (126 ref.)

CDKN2 (MTS1/p16INK4A) gene alterations in hematological malignancies. Uchida T, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):449–61 (71 ref.)

ETV6 gene rearrangements in hematopoietic malignant disorders. Wlodarska I, et al. **Leuk Lymphoma** 1996 Oct; 23(3-4):287–95 (54 ref.)

Molecular epidemiology of hematological neoplasms--present status and future directions. Shpilberg O, et al. **Leuk Res** 1997 Apr;21(4):265–84 (167 ref.)

Recent progress in molecular mechanisms of leukemogenesis: the cyclin-dependent kinase 4-inhibitor gene in human leukemias. Hirai H, et al. **Leukemia** 1997 Apr;11 Suppl 3:358–60

DNA methylation changes in hematologic malignancies: biologic and clinical implications. Issa JP, et al. **Leukemia** 1997 Mar;11 Suppl 1:S7–11 (58 ref.)

Alterations of the cyclin-dependent kinase inhibitor p19 (INK4D) is rare in hematopoietic malignancies. Shiohara M, et al. **Leukemia** 1996 Dec;10(12):1897–900

Development of a sensitive PCR to detect allele loss in a model hematopoietic neoplasm. Fairman J, et al. **PCR Methods Appl** 1994 Aug;4(1):6–12

[Molecular anomalies in malignant hemopathies (editorial)] Mauvieux L, et al. **Presse Med** 1997 Jun 21;26(21):1005–7 (Eng. Abstr.) **(Fre)**

[Cytogenetics in the study of malignant blood diseases] García JL, et al. **Sangre (Barc)** 1996 Aug;41(4):289–95 (41 ref.) **(Spa)**

[Molecular biology in malignant blood diseases. Methodological aspects: Southern blotting techniques and the polymerase chain reaction] González M, et al. **Sangre (Barc)** 1996 Aug;41(4):311–9 (29 ref.) **(Spa)**

[Molecular biology in malignant blood diseases. Clinical applications. Study of immunoglobulin and T-cell receptor genes and molecular analysis of the translocations] González M, et al. **Sangre (Barc)** 1996 Aug;41(4):321–34 (95 ref.) **(Spa)**

IMMUNOLOGY

Flow cytometric evaluation of proliferating cell nuclear antigen expression in human hematopoietic malignancies. Erlanson M, et al. **Acta Oncol** 1997;36(1):17–22

Specificities of anti-platelet antibodies in multitransfused patients with haemato-oncological disorders. Kurz M, et al. **Br J Haematol** 1996 Dec;95(3):564–9

Cellular immunotherapy and autologous transplantation for hematologic malignancy. Margolin KA, et al. **Immunol Rev** 1997 Jun;157:231–40 (83 ref.)

Cytohistological and immunological classification of canine malignant lymphomas: comparison with human non-Hodgkin's lymphomas. Fournel-Fleury C, et al. **J Comp Pathol** 1997 Jul;117(1):35–59

Reactivity of anti-AraC-resistant cell monoclonal antibody, YU-311, in formalin-fixed paraffin-embedded specimens of various hematopoietic disorders. Fukuda T, et al. **Leuk Res** 1996 Nov-Dec;20(11-12):953–61

Definition of HLA-DQ as a transplantation antigen. Petersdorf EW, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15358–63

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 May;47(5):408–13

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 Nov;48(5):609–14

Decrease in Thy-1 expression on peripheral CD34 positive cells induced by G-CSF mobilization. The Tohoku Children Leukemia Study Group. Tsuchiya S, et al. **Tohoku J Exp Med** 1997 Jun;182(2):157–62

Frequency and specificity of platelet-specific alloantibodies in HLA-immunized haematologic-oncologic patients. Schnaidt M, et al. **Transfus Med** 1996 Jun;6(2):111–4

[CD34+ cells: biological aspects] Benedetti F. **Tumori** 1996 Mar-Apr;82(2 Suppl):S3–13 (73 ref.) (Eng. Abstr.) **(Ita)**

[The immunology laboratory in malignant blood diseases] López Berges MC, et al. **Sangre (Barc)** 1996 Aug; 41(4):281–8 (44 ref.) **(Spa)**

[The cytotoxic function of normal leukocytes and in chronic tumorous diseases of the blood] Vozniuk VP, et al. **Lik Sprava** 1996 Mar-Apr;(3-4):9–12 (45 ref.) **(Ukr)**

METABOLISM

Expression and identification of aberrant c-kit transcripts in human cancer cells. Takaoka A, et al. **Cancer Lett** 1997 May 19;115(2):257–61

CD40/CD40 ligand interactions in normal, reactive and malignant lympho-hematopoietic tissues. Gruss HJ, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):393–422 (236 ref.)

Multidrug resistance-associated protein (MRP) in haematological malignancies. Nooter K, et al. **Leuk Lymphoma** 1996 Feb;20(5-6):381–7 (34 ref.)

MICROBIOLOGY

Overgrowth of Enterococcus faecium in the feces of patients with hematologic malignancies. Suppola JP, et al. **Clin Infect Dis** 1996 Oct;23(4):694–7

Bacteremia due to glucose non-fermenting gram-negative bacilli in patients with hematological neoplasias and solid tumors. Martino R, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jul;15(7):610–5

MORTALITY

Early identification of patients at risk of death due to infections, hemorrhage, or graft failure after allogeneic bone marrow transplantation on the basis of the leukocyte counts. Mehta J, et al. **Bone Marrow Transplant** 1997 Feb; 19(4):349–55

Symptom distress, coping style and biological variables as predictors of survival after bone marrow transplantation. Molassiotis A, et al. **J Psychosom Res** 1997 Mar; 42(3):275–85

Mortality from pancreatic and lymphopoietic cancer among workers in ethylene and propylene chlorohydrin production. Olsen GW, et al. **Occup Environ Med** 1997 Aug;54(8):592–8

PATHOLOGY

Bone marrow mastocytosis associated with an undifferentiated extramedullary tumor of hemopoietic origin. Horny HP, et al. **Arch Pathol Lab Med** 1997 Apr; 121(4):423–6

Intrathoracic extramedullary hematopoietic tumor in hemoglobin C disease [letter; comment] Stokes GN, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):355. Comment on: Arch Pathol Lab Med 1996 May;120(5):504–6.

Laparoscopic liver biopsy to evaluate hepatic dysfunction in patients with hematologic malignancies: a useful tool to effect changes in management. Iqbal M, et al. **Bone Marrow Transplant** 1996 Apr;17(4):655–62

Colony counting is a major source of variation in CFU-GM results between centres. Lumley MA, et al. **Br J Haematol** 1997 May;97(2):481–4

Hematologic malignancies developing in Syrian golden hamsters during induction of pancreatic carcinoma. Cualing HD, et al. **Carcinogenesis** 1996 Sep;17(9):1983–8

Advances in the detection of minimal residual disease. Radich J, et al. **Curr Opin Hematol** 1997 Jul;4(4):242–7 (31 ref.)

Meiosis in hematological malignancies. In situ cytogenetic morphology. Logothetou-Rella H. **Histol Histopathol** 1996 Oct;11(4):943–63

Description of primordial germ cells, oogonia, oocytes and embryo-like growth in squash preparations of tissues from hematological malignancies. Logothetou-Rella H. **Histol Histopathol** 1996 Oct;11(4):965–84

Eosinophils and human cancer. Samoszuk M. **Histol Histopathol** 1997 Jul;12(3):807–12 (61 ref.)

Apoptosis in haematological malignancies. DiGiuseppe JA, et al. **J Clin Pathol** 1997 May;50(5):361–4

Cytohistological and immunological classification of canine malignant lymphomas: comparison with human non-Hodgkin's lymphomas. Fournel-Fleury C, et al. **J Comp Pathol** 1997 Jul;117(1):35–59

Differential diagnosis based on immunological-phenotyping in suspected malignant bone marrow involvement in childhood. Gussetis ES, et al. **Pediatr Hematol Oncol** 1997 Jan-Feb;14(1):29–41

[Cell cultures in the study of malignant blood diseases] del Cañizo MC, et al. **Sangre (Barc)** 1996 Aug;41(4):297–303 (55 ref.) **(Spa)**

[The examination of peripheral blood and bone marrow in the diagnosis of malignant blood diseases] García Marcos MA, et al. **Sangre (Barc)** 1996 Aug;41(4):275–80 (20 ref.) **(Spa)**

[Applications of fluorescence in situ hybridization in the study of hematologic neoplasms] Hernández JM, et al. **Sangre (Barc)** 1996 Aug;41(4):305–9 (38 ref.) **(Spa)**

[Cytogenetic study of 121 patients suffering from various hematologic neoplasms using the in situ hybridization technique] Pérez Losada A, et al. **Sangre (Barc)** 1996 Jun; 41(3):201–9 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Hematopoietic recovery after allogeneic blood stem-cell transplantation compared with bone marrow transplantation in patients with hematologic malignancies. Pavletic ZS, et al. **J Clin Oncol** 1997 Apr;15(4):1608–16

Telomeres and telomerase in normal and malignant haematologic cells. Leber B, et al. **Leuk Lymphoma** 1996 Dec;24(1-2):1–9 (58 ref.)

PREVENTION & CONTROL

Correspondence re: C.V. Rao, et al., Inhibition of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-induced lymphoma formation by oltipraz. Cancer Res., 56: 3395–3398, 1996 [letter] Roebuck BD, et al. **Cancer Res** 1997 Jul 1;57(13):2806–7

PSYCHOLOGY

Symptom distress, coping style and biological variables as predictors of survival after bone marrow transplantation. Molassiotis A, et al. **J Psychosom Res** 1997 Mar; 42(3):275–85

RADIONUCLIDE IMAGING

[Clinical usefulness of 123I-BMIPP (beta-methyl iodophenyl pentadecanoic (acid) myocardial SPECT in patients with hematological malignancies with adriamycin-induced cardiomyopathy] Niitsu N, et al. **Gan To Kagaku Ryoho** 1996 Nov;23(13):1793–7 (Eng. Abstr.) **(Jpn)**

RADIOTHERAPY

Phase I/II trial of cure-oriented high-dose chemoradiotherapy with transplantation of CD34+ peripheral blood stem cells purified by the immunomagnetic bead method for refractory hematological malignancies. Nagoya CD34+ PBSCT Study Group. Ogura M, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S51–7

Recent progress in radioimmunotherapy for cancer. Meredith RF, et al. **Oncology (Huntingt)** 1997 Jul;11(7):979–84, 987; discussion 987–8 (50 ref.)

SURGERY

Hematopoietic recovery after allogeneic blood stem-cell transplantation compared with bone marrow transplantation in patients with hematologic malignancies. Pavletic ZS, et al. **J Clin Oncol** 1997 Apr;15(4):1608–16

THERAPY

Gene transfer in haematological malignancy. Brenner MK. **Ann Med** 1996 Dec;28(6):491–7 (56 ref.)

Peripheral blood progenitor cell transplantation: where do we stand? Chairman's Summary of the European School of Oncology Task Force meeting Peripheral Blood progenitor cell's held September 29–30, 1995. Boogaerts MA, et al. **Ann Oncol** 1996;7 Suppl 2:1–4 (20 ref.)

Multivariate analyses of prognostic factors associated with hematopoietic recovery in autograft patients with different

sources of progenitor cells. A GATMO experience. Argintine Group of Bone Marrow Transplant. Pavlovsky S, et al. **Ann Oncol** 1996 Sep;7(7):719–24

The outcome of unrelated donor bone marrow transplantation in patients with hematologic malignancies using tacrolimus (FK506) and low dose methotrexate for graft–versus–host disease prophylaxis. Devine SM, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):25–33

A controlled trial of long–term administration of intravenous immunoglobulin to prevent late infection and chronic graft–vs.–host disease after marrow transplantation: clinical outcome and effect on subsequent immune recovery. Sullivan KM, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):44–53

Allogeneic peripheral blood stem cell transplantation in patients with advanced hematologic malignancies: a retrospective comparison with marrow transplantation. Bensinger WI, et al. **Blood** 1996 Oct 1;88(7):2794–800

Transplantation of allogeneic CD34+ peripheral blood stem cells in patients with advanced hematologic malignancy. Bensinger WI, et al. **Blood** 1996 Dec 1;88(11):4132–8

Use of partially mismatched related donors extends access to allogeneic marrow transplant. Henslee–Downey PJ, et al. **Blood** 1997 May 15;89(10):3864–72

CD34+ cell dose predicts survival, posttransplant morbidity, and rate of hematologic recovery after allogeneic marrow transplants for hematologic malignancies. Mavroudis D, et al. **Blood** 1996 Oct 15;88(8):3223–9

Association of specific cytomegalovirus genotypes with death from myelosuppression after marrow transplantation. Torok–Storb B, et al. **Blood** 1997 Sep 1;90(5):2097–102

Lenograstim administration to HLA–identical donor–recipient pairs to accelerate marrow recovery post–transplant. Atkinson K, et al. **Bone Marrow Transplant** 1997 Jan;19(1):15–21

Mixed hematopoietic chimerism after allogeneic bone marrow transplantation: the impact of quantitative PCR analysis for prediction of relapse and graft rejection in children. Bader P, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):697–702

Early reactivation of cytomegalovirus and high risk of interstitial pneumonitis following T–depleted BMT for adults with hematological malignancies. Couriel D, et al. **Bone Marrow Transplant** 1996 Aug;18(2):347–53

Autologous bone marrow mixed with HLA–haploidentical allogeneic marrow transplantation for treatment of patients with malignant blood diseases. Da WM, et al. **Bone Marrow Transplant** 1997 Jan;19(2):107–12

An aerobic exercise program for patients with haematological malignancies after bone marrow transplantation. Dimeo F, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1157–60

Molecular studies of chimerism and minimal residual disease after allogeneic peripheral blood progenitor cell or bone marrow transplantation. Elmaagacli AH, et al. **Bone Marrow Transplant** 1996 Aug;18(2):397–403

Allogeneic transplantation of positively selected peripheral blood CD34+ progenitor cells from matched related donors. Finke J, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1081–6

Allogeneic bone marrow transplantation with matched unrelated donors for patients with hematologic malignancies using a preparative regimen of high–dose cyclophosphamide and fractionated total body irradiation. Geller RB, et al. **Bone Marrow Transplant** 1997 Aug; 20(3):219–25

GM–CSF accelerates neutrophil recovery after autologous hematopoietic stem cell transplantation. Greenberg P, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1057–64

Decreased interleukin 10 and increased interferon–gamma production in patients with chronic graft–versus–host disease after allogeneic bone marrow transplantation. Körholz D, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):691–5

Elevated serum HLA class I levels coincide with acute and chronic graft–versus–host disease. Liem LM, et al. **Bone Marrow Transplant** 1997 Aug;20(3):227–34

High incidence of chronic GVHD after primary allogeneic peripheral blood stem cell transplantation in patients with hematologic malignancies. Majolino I, et al. **Bone Marrow Transplant** 1996 Apr;17(4):555–60

Transfusion requirements after bone marrow transplantation from HLA–identical siblings: effects of donor–recipient ABO incompatibility. Mehta J, et al. **Bone Marrow Transplant** 1996 Jul;18(1):151–6

Allogeneic peripheral blood stem cell transplantation for haematological malignancies—an analysis of kinetics of engraftment and GVHD risk. Miflin G, et al. **Bone Marrow Transplant** 1997 Jan;19(1):9–13

Target value tailored (TVT) apheresis approach for blood progenitor cell collection after high–dose chemotherapy and rh–G–CSF. Mitterer M, et al. **Bone Marrow Transplant** 1996 Sep;18(3):611–7

High–dose chemotherapy with autologous stem cell transplantation is feasible and safe in a regional hospital. A 6–year experience in southern Switzerland. Regazzoni S, et al. **Bone Marrow Transplant** 1997 Jan;19(1):3–7

Interleukin–2 after autologous stem cell transplantation for hematologic malignancy: a phase I/II study. Robinson N, et al. **Bone Marrow Transplant** 1997 Mar;19(5):435–42

Partially mismatched blood cell transplants for high–risk hematologic malignancy. Russell JA, et al. **Bone Marrow Transplant** 1997 May;19(9):861–6

Allogeneic blood cell transplants for haematological malignancy: preliminary comparison of outcomes with bone marrow transplantation. Russell JA, et al. **Bone Marrow Transplant** 1996 May;17(5):703–8

Treatment of relapse after allogeneic BMT with donor leukocyte infusions in 16 patients. Russell LA, et al. **Bone Marrow Transplant** 1996 Aug;18(2):411–4

Melphalan alone prior to allogeneic bone marrow transplantation from HLA–identical sibling donors for hematologic malignancies: alloengraftment with potential preservation of fertility in women. Singhal S, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1049–55

Unrelated donor bone marrow transplantation without T cell depletion using a chemotherapy only condition regimen. Low incidence of failed engraftment and severe acute GVHD. Topolsky D, et al. **Bone Marrow Transplant** 1996 Apr;17(4):549–54

Tacrolimus and methotrexate for the prophylaxis of acute graft–versus–host disease in allogeneic bone marrow transplantation in patients with hematologic malignancies. Uberti JP, et al. **Bone Marrow Transplant** 1997 Jun; 19(12):1233–8

Allogeneic peripheral blood progenitor cell transplantation: analysis of short–term engraftment and acute GVHD incidence in 33 cases. allo–PBPCT Spanish Group. Urbano–Ispizua A, et al. **Bone Marrow Transplant** 1996 Jul;18(1):35–40

A pilot study of busulfan and melphalan as preparatory regimen prior to allogeneic bone marrow transplantation in refractory or relapsed hematological malignancies. Vey N, et al. **Bone Marrow Transplant** 1996 Sep;18(3):495–9

Royal College of Physicians Consensus Conference on unrelated donor BMT: its use in leukaemias and allied disorders; 29–30 October 1996 [letter] **Br J Haematol** 1997 Feb;96(2):424–5

Thymic function in adults: evidence derived from immune recovery patterns following myeloablative chemotherapy and stem cell infusion. Cavenagh JD, et al. **Br J Haematol** 1997 Jun;97(3):673–6

Avascular necrosis of bone after allogeneic bone marrow transplantation: analysis of risk factors for 4388 patients by the Société Française de Greffe de Moëlle (SFGM). Socié G, et al. **Br J Haematol** 1997 Jun;97(4):865–70

High–dose therapy with peripheral blood stem cell transplantation results in a significant reduction of the haemopoietic progenitor cell compartment. Voso MT, et al. **Br J Haematol** 1996 Sep;94(4):759–66

Gene therapy of solid tumors and hematopoietic neoplasms. Bachier CR, et al. **Cancer Treat Res** 1997;77:3–26 (65 ref.)

The use of radiolabeled antibodies in bone marrow transplantation for hematologic malignancies. Matthews DC, et al. **Cancer Treat Res** 1997;77:121–39 (42 ref.)

Risk factors for pneumothorax during percutaneous Hickman line insertion in patients with solid and haematological tumours [letter; comment] Malcolm PN, et al. **Clin Oncol (R Coll Radiol)** 1996;8(3):206. Comment on: Clin Oncol (R Coll Radiol) 1995;7(6):373–6.

Supportive care in hematologic malignancies, including hematopoietic growth factors, transfusions, and infectious complications. Fetscher S, et al. **Curr Opin Hematol** 1997 Jul;4(4):248–55 (65 ref.)

Transplantation [editorial; comment] Jones RJ. **Curr Opin Oncol** 1997 Mar;9(2):115–6. Comment on: Curr Opin Oncol 1997 Mar;9(2):117–21. Comment on: Curr Opin Oncol 1997 Mar;9(2):122–5. Comment on: Curr Opin Oncol 1997 Mar;9(2):126–30. Comment on: Curr Opin Oncol 1997 Mar;9(2):131–8.

Cytokine therapy for hematological malignancies. Ezaki K, et al. **Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:182–94 (30 ref.)

Stem cells and stem cell transplantation. Carlo–Stella C, et al. **Haematologica** 1996 Nov–Dec;81(6):573–87 (84 ref.)

Plasma cytokines in graft vs host disease and complications following bone marrow transplantation. Abdallah AN, et al. **Hematol Cell Ther** 1997 Feb;39(1):27–32

Cellular immunotherapy and autologous transplantation for hematologic malignancy. Margolin KA, et al. **Immunol Rev** 1997 Jun;157:231–40 (83 ref.)

Thirty–eighth Annual Meeting of the American Society of Hematology. Markman M. **J Cancer Res Clin Oncol** 1997; 123(4):235–6

Successful collection and transplantation of peripheral blood stem cells in cancer patients using large–volume leukaphereses. Murea S, et al. **J Clin Apheresis** 1996; 11(4):185–94

Donor leukocyte infusions in 140 patients with relapsed malignancy after allogeneic bone marrow transplantation [see comments] Collins RH Jr, et al. **J Clin Oncol** 1997 Feb;15(2):433–44. Comment in: J Clin Oncol 1997 Feb;15(2):416–7.

Influence of age on the outcome of 500 autologous bone marrow transplant procedures for hematologic malignancies. Kusnierz–Glaz CR, et al. **J Clin Oncol** 1997 Jan;15(1):18–25

Autologous transplantation of blood stem cells mobilized with filgrastim alone in 93 patients with malignancies: the number of CD34+ cells reinfused is the only factor predicting both granulocyte and platelet recovery. Faucher C, et al. **J Hematother** 1996 Dec;5(6):663–70

Allogeneic bone marrow transplant in pediatric patients with high–risk hematopoietic malignancies early in the course of their disease. Amylon MD, et al. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):54–61

Emerging applications of gene transfer in the hematopoietic cancers. Brenner MK. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):1–6 (36 ref.)

Combination of antisense oligonucleotide and low–dose chemotherapy in hematological malignancies. Benner E, et al. **J Pharmacol Toxicol Methods** 1997 Jun;37(4):229–35 (34 ref.)

Allogeneic stem cell transplantation for the treatment of hematologic malignancies: current indications and challenges. Appelbaum FR. **J Rheumatol Suppl** 1997 May; 48:41–5 (31 ref.)

Unrelated donor bone marrow transplantation for hematological malignancies–current status. Davies SM, et al. **Leuk Lymphoma** 1996 Oct;23(3–4):221–6 (19 ref.)

Pilocarpine hydrochloride for symptomatic relief of xerostomia due to chronic graft–versus–host disease or total–body irradiation after bone–marrow transplantation for hematologic malignancies. Singhal S, et al. **Leuk Lymphoma** 1997 Feb;24(5–6):539–43

Long–term safety of GM–CSF (molgramostim) administration after allogeneic bone marrow transplantation for hematologic malignancies: five–year follow–up of a double–blind randomized placebo–controlled study. Singhal S, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):301–7

ALL and beyond: implications for other hematologic malignancies. Thomas ED. **Leukemia** 1997 May;11 Suppl 4:S43–5 (7 ref.)

Infections in neutropenic patients. II: Management. Engervall P, et al. **Med Oncol** 1996 Mar;13(1):63–9 (74 ref.)

Bone marrow transplantation using unrelated donors for haematological malignancies. Ringdén O. **Med Oncol** 1997 Mar;14(1):11–22 (116 ref.)

Liposomal amphotericin B as early empiric antimycotic therapy of pneumonia in granulocytopenic patients. Böhme A, et al. **Mycoses** 1996 Nov–Dec;39(11–12):419–26

Six years' experience of total parenteral nutrition in children with hematological malignancies at a single center: management, efficacy, and complications. Barzaghi A, et al. **Pediatr Hematol Oncol** 1996 Jul–Aug;13(4):349–58

Pediatric hematology/oncology in Russia. Durnov L, et al. **Pediatr Hematol Oncol** 1997 Mar–Apr;14(2):103–7 (8 ref.)

History of pediatric hematology–oncology in the Czech Republic. Kavan P, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):307–13 (6 ref.)

Interferon–alpha in childhood haematological malignancies. Simkó R, et al. **Postgrad Med J** 1996 Dec;72(854):709–13 (58 ref.)

Definition of HLA–DQ as a transplantation antigen. Petersdorf EW, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15358–63

Mechanical and infective central venous catheter–related complications: a prospective non–randomized study using Hickman and Groshong catheters in children with hematological malignancies. Biagi E, et al. **Support Care Cancer** 1997 May;5(3):228–33

Bacterial contamination of peripheral blood progenitor cells for transplantation. Jestice HK, et al. **Transfus Med** 1996 Jun;6(2):103–10

Serum interferon–gamma and C–reactive protein levels as predictors of acute graft–vs–host disease in allogeneic hematopoietic precursor cell (marrow or peripheral blood progenitor cells) recipients. Lange A, et al. **Transplant Proc** 1996 Dec;28(6):3522–5

[The role of interleukin–2—based immunotherapy in hematological malignancies] Ackerstein A, et al. **Harefuah** 1996 May 1;130(9):613–7 (45 ref.) **(Heb)**

[CD34+ cells: biological aspects] Benedetti F. **Tumori** 1996 Mar–Apr;82(2 Suppl):S3–13 (73 ref.) (Eng. Abstr.) **(Ita)**

[The prevention of hemorrhagic cystitis during the performance of bone marrow and peripheral blood stem cell transplantation in the hematologic cancer clinic] Uss AL, et al. **Ter Arkh** 1996;68(10):49–52 (Eng. Abstr.) **(Rus)**

VETERINARY

Tumours of the haematopoietic system. Barthold SW. **IARC Sci Publ** 1996;(126):365–83 (74 ref.)

Experimental field studies with Mya arenaria (Bivalvia) on the induction and effect of hematopoietic neoplasia. Weinberg JR, et al. **J Invertebr Pathol** 1997 Mar; 69(2):183–94

Possible relationships between canine hematopoietic neoplasia, other malignancies and immune mediated diseases. Theilen G. **Leukemia** 1997 Apr;11 Suppl 3:187–8

VIROLOGY

Presence of Epstein–Barr virus genome in the bone marrow of patients with hematopoietic malignancies. Watanabe H, et al. **Acta Haematol** 1997;98(1):32–6

Human herpesvirus type–8 (HHV–8) in haematopoietic neoplasia. Gaidano G, et al. **Leuk Lymphoma** 1997 Jan; 24(3–4):257–66 (53 ref.)

HEMATOLOGIC TESTS

Evaluation of whole blood antibody kit to detect active Helicobacter pylori infection. Borody TJ, et al. **Am J Gastroenterol** 1996 Dec;91(12):2509–12

Field evaluation of the QBC technique for rapid diagnosis

of vivax malaria. Wang X, et al.
Bull World Health Organ 1996;74(6):599–603
Pre-adaptation, adaptation and de-adaptation to high altitude in humans: cardio-ventilatory and haematological changes. Savourey G, et al. **Eur J Appl Physiol** 1996;73(6):529–35
Additional value of biochemical tests in suspected acute appendicitis. Hallan S, et al. **Eur J Surg** 1997 Jul; 163(7):533–8
Haematology and coagulation indices in paired samples of arterial and venous blood from patients with arterial disease. Blann AD, et al. **Haemostasis** 1996 Mar–Apr; 26(2):72–8
Emergency blood test guidelines [letter; comment] van Heyningen C. **Postgrad Med J** 1997 Jan;73(855):62. Comment on: Postgrad Med J 1995 Feb;71(832):81–5.
[Euglobulin lysis time] Sakuragawa N. **Nippon Rinsho** 1997 Mar;55 Suppl 1:139–44 (4 ref.) **(Jpn)**
[Recent advances in laboratory test of blood coagulation/fibrinolysis, and its perspectives] Tezono K, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:123–8 (11 ref.) **(Jpn)**
[Problems on emergency laboratory tests for blood cell counts (BCC) and coagulation] Takubo T, et al.
Rinsho Byori 1996 Oct;44(10):952–5 (5 ref.) (Eng. Abstr.) **(Jpn)**
[Immuno-physiological and hematological aspects of flight certification examination] Goranchuk VV, et al.
Aviakosm Ekolog Med 1996;30(1):54–7 (12 ref.) (Eng. Abstr.) **(Rus)**
[Hematological studies in the diagnosis of diseases] Morozova VT. **Klin Lab Diagn** 1996 Nov–Dec;(6):3–7 **(Rus)**
[Helicobacter pylori screening can be improved. A rapid whole-blood test is effective] Pettersson L, et al.
Lakartidningen 1997 Aug 27;94(35):2951, 2954 **(Swe)**

INSTRUMENTATION

The use of the iSTAT portable analyzer in patients undergoing cardiopulmonary bypass. Connelly NR, et al. **J Clin Monit** 1996 Jul;12(4):311–5
[The diagnosis of deep venous thromboses of the leg using a new rapid test (SimpliRED)] Wildberger JE, et al.
Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr 1997 Jul;167(1):79–82 (Eng. Abstr.) **(Ger)**
[Hematological analyzers in the diagnosis of iron-deficiency anemias] Lugovskaia SA, et al. **Klin Lab Diagn** 1996 Nov–Dec;(6):7–10 **(Rus)**
[The use of modern hematological analyzers in clinical diagnostic laboratories] Pochtar' ME, et al.
Klin Lab Diagn 1996 Nov–Dec;(6):10–7 **(Rus)**
[Use of the hematological system Technicon H-1 for analysis of the effect of laser irradiation] Siatkovskiĭ VA, et al.
Klin Lab Diagn 1993 May–Jun;(3):20–3 (Eng. Abstr.) **(Rus)**

METHODS

Laboratory tests in evaluation of acute febrile illness in pediatric emergency room patients. Procop GW, et al.
Am J Clin Pathol 1997 Jan;107(1):114–21
Detection of drug-dependent, platelet-reactive antibodies by solid-phase red cell adherence assays. Leach MF, et al.
Br J Haematol 1997 Jun;97(4):755–61
Rapid quantitative analysis of protein tyrosine residue phosphorylation in defined cell populations in whole blood and bone marrow aspirates. Müller C, et al.
Br J Haematol 1996 Sep;94(3):461–3
A simple and accurate method to determine equilibrated post-dialysis urea concentration. Canaud B, et al.
Kidney Int 1997 Jun;51(6):2000–5
[Osmotic fragility test] Fujii H. **Nippon Rinsho** 1997 Mar;55 Suppl 1:153–5 (2 ref.) **(Jpn)**
[Ferrokinetics] Takahashi Y, et al. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:75–83 (4 ref.) **(Jpn)**
[Erythron transferrin uptake--a new refind parameter to assess erythropoietic activity] Takahashi Y, et al.
Nippon Rinsho 1997 Mar;55 Suppl 1:84–7 (5 ref.) **(Jpn)**
[Methods for estimating red cell life span] Uchiyama Y.
Nippon Rinsho 1997 Mar;55 Suppl 1:145–8 (10 ref.) **(Jpn)**
[Importance of automatic blood analysis in clinical practice] Baĭdun LV, et al. **Gematol Transfuziol** 1996 Mar–Apr; 41(2):36–41 **(Rus)**
[The determination of the presence of blood in stains on material evidence by using the HemoFAN diagnostic test from the Lachema firm] Gurtovaia SV, et al.
Sud Med Ekspert 1996 Jul–Sep;39(3):29–30 **(Rus)**

STANDARDS

Calibration verification of the International Normalized Ratio [see comments] [published erratum appears in Am J Clin Pathol 1997 Mar;107(3):379] Critchfield GC, et al.
Am J Clin Pathol 1996 Dec;106(6):786–94. Comment in: Am J Clin Pathol 1996 Dec;106(6):699–700.
Diurnal change of blood count analytes in normal subjects. Jones AR, et al. **Am J Clin Pathol** 1996 Dec;106(6):723–7
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. A crucial reference just missed being cited [letter; comment] Bateson MC. **BMJ** 1997 Jun 7;314(7095):1690. Comment on: BMJ 1997 Jan 11;314(7074):119.
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Likelihood ratios should be routinely reported [letter; comment] Dawes M, et al.
BMJ 1997 Jun 7;314(7095):1690; discussion 1690–1. Comment on: BMJ 1997 Jan 11;314(7074):119.
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Test needs full evaluation in primary care [letter; comment] Delaney B, et al.
BMJ 1997 Jun 7;314(7095):1689–90; discussion 1690–1. Comment on: BMJ 1997 Jan 11;314(7074):119.
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Conflicting results from the Helisal test [letter; comment] Duggan A, et al. **BMJ** 1997 Jun 7;314(7095):1688–9; discussion 1690–1. Comment on: BMJ 1997 Jan 11;314(7074):119.
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Likelihood ratios provide more information with little effort [letter; comment] Hawke C. **BMJ** 1997 Jun 7;314(7095):1690; discussion 1690–1. Comment on: BMJ 1997 Jan 11;314(7074):119.
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Endoscopy of only those who are positive for H pylori could miss other diagnoses [letter; comment] Johnston BT. **BMJ** 1997 Jun 7; 314(7095):1690; discussion 1690–1. Comment on: BMJ 1997 Jan 11;314(7074):119.
How to minimise factitious hyperkalaemia in blood samples from general practice [letter] [see comments] Johnston JD, et al. **BMJ** 1997 Apr 19;314(7088):1200–1. Comment in: BMJ 1997 Jul 19;315(7101):190.
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection [see comments] Moayyedi P, et al. **BMJ** 1997 Jan 11;314(7074):119. Comment in: BMJ 1997 Jun 7;314(7095):1688–9; discussion 1690–1. Comment in: BMJ 1997 Jun 7;314(7095):1689; discussion 1690–1. Comment in: BMJ 1997 Jun 7;314(7095):1689–90; discussion 1690–1. Comment in: BMJ 1997 Jun 7;314(7095):1690. Comment in: BMJ 1997 Jun 7;314(7095):1690; discussion 1690–1.
Validation of a rapid whole blood test for diagnosing Helicobacter pylori infection. Assessment lacked certain considerations [letter; comment] Robinson RJ, et al.
BMJ 1997 Jun 7;314(7095):1689; discussion 1690–1. Comment on: BMJ 1997 Jan 11;314(7074):119.
[Standardization Committee for Haematology. External Quality Assurance Program for General Hematology. Evaluation of the 1994 results] Gutiérrez G, et al.
Sangre (Barc) 1996 Apr;41(2):115–23 (Eng. Abstr.) **(Spa)**

STATISTICS & NUMERICAL DATA

Mixture models in haematology: a series of case studies [see comments] McLaren CE. **Stat Methods Med Res** 1996 Jun; 5(2):129–53 (83 ref.). Comment in: Stat Methods Med Res 1996 Jun;5(2):107–27.

UTILIZATION

A written guideline implementation can lead to reductions in laboratory testing in an intensive care unit. Mehari SM, et al. **Anaesth Intensive Care** 1997 Feb;25(1):33–7
Evaluating laboratory usage in the intensive care unit: patient and institutional characteristics that influence frequency of blood sampling. Zimmerman JE, et al. **Crit Care Med** 1997 May;25(5):737–48

VETERINARY

Clinical hematology. In-clinic analysis, quality control, reference values, and system selection. Knoll JS, et al.
Vet Clin North Am Small Anim Pract 1996 Sep; 26(5):981–1002 (21 ref.)
The validity of some haematological and ELISA methods for the diagnosis of canine heartworm disease. Martini M, et al. **Vet Res Commun** 1996;20(4):331–9

HEMATOLOGY

see related
HEMATOLOGIC DISEASES

Annual Congress of the German and the Austrian Society of Hematology and Oncology. Dusseldorf, 3–7 October 1996. Abstracts. **Ann Hematol** 1996;73 Suppl 2:A1–197
41st Annual meeting of the GTH (Gesellschaft für, Thrombose- und Hämostaseforochung). Vienna, Austria, 22–25 February 1997. Abstracts. **Ann Hematol** 1997;74 Suppl 2:I–IX, A59–154
A comparison of the effectiveness of malignancy detection in body fluid examination by the cytopathology and hematology laboratories. Kendall B, et al.
Arch Pathol Lab Med 1997 Sep;121(9):976–9
38th annual meeting of the American Society of Hematology. Orlando, Florida, December 6–10, 1996. Abstracts. Part 2. **Blood** 1996 Nov 15;88(10 Su 1 Pt 2):1b–399b
38th annual meeting of the American Society of Hematology. Orlando, Florida, December 6–10, 1996. Abstract. Part I. **Blood** 1996 Nov 15;88(10 Su 1 Pt 1):1a–786a
Annual scientific meeting of the British Society for Haematology. Harrogate, United Kingdom, 14–17 April 1997. Abstracts. **Br J Haematol** 1997 Apr;97 Suppl 1:1–94
26th Annual meeting of the International Society for Experimental Hematology. Cannes, France, August 24–28, 1997. Abstracts. **Exp Hematol** 1997 Aug;25(8):727–926
XXXV Congress of the Italian Society of Hematology. Pavia-Cernobbio, September 10–13, 1995. Abstracts.
Haematologica 1996 Mar–Apr;81(2 Suppl):1–76
Publish or perish: prospects for European Hematological Journals [editorial] Cazzola M. **Haematologica** 1996 Nov–Dec;81(6):489–91
XVth Congress of the French Society of Hematology. Paris, France, February 9–10, 1996. Abstracts.
Hematol Cell Ther 1996 Feb;38(1):1–158 **(Eng, Fre)**
26th Congress of the International Society of Haematology. Singapore, 25–29 August 1996. Abstracts [published erratum appears in Int J Hematol 1996 Dec;65(1):93]
Int J Hematol 1996;64 Suppl 1:S1–202
Lessons from a hematology/oncology psychosocial conference. Drell MJ.
J Am Acad Child Adolesc Psychiatry 1996 Mar;35(3):392–4
Sickle cell-related pain: perceptions of medical practitioners. Shapiro BS, et al. **J Pain Symptom Manage** 1997 Sep; 14(3):168–74
[A hematologist on the Internet] Nielsen OJ.
Ugeskr Laeger 1997 Aug 4;159(32):4839–40 **(Dan)**
[64th annual meeting of the Swiss Society of Internal Medicine and annual meeting of the Swiss Society of Hematology. Zurich, 21–23 March 1996. Abstracts]
Schweiz Med Wochenschr Suppl 1996;74:1S–50S **(Fre)**
[The 38th congress of the Japanese Society of Clinical Hematology. Omiya City, Saitama, Japan. November 13–15, 1996. Abstracts] **Rinsho Ketsueki** 1996 Oct; 37(10):871–1243 **(Jpn)**
[Problems of noninvasive diagnosis in a clinical laboratory: materials and methods] Men'shikov VV, et al.
Klin Lab Diagn 1996 Jul–Aug;(4):33–8 **(Rus)**
[Clinical experimental research in hematology: planning, data management and the presentation of the results] Kulikov SM, et al. **Ter Arkh** 1996;68(7):65–72 **(Rus)**
[An outbreak of nosocomial candidiasis in a hematology ward] Liubimova AV, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 Jan–Feb;(1):23–6 (Eng. Abstr.) **(Rus)**
[The hematology laboratory in the study of malignant blood diseases. Introduction] San Miguel Izquierdo JF.
Sangre (Barc) 1996 Aug;41(4):273 **(Spa)**

EDUCATION

So you want to train in haematology. Colvin BT.
Br J Hosp Med 1996 Sep 18–Oct 1;56(6):283–4
Haematology self-assessment exercise. **Clin Lab Haematol** 1996 Mar;18(1):66–8

HISTORY

A tribute to Jan Gosta Waldenström [editorial] Kyle RA, et al. **Blood** 1997 Jun 15;89(12):4245–7
Erik von Willebrand—von Willebrand's disease. Shampo MA, et al. **Mayo Clin Proc** 1996 Nov;71(11):1088
Walter H. Seegers. An appreciation. Blombäck B.
Thromb Res 1996 Dec 1;84(5):303–10
A short history of transfusion medicine. Greenwalt TJ.
Transfusion 1997 May;37(5):550–63 (130 ref.)
[The role of the Medical Department of Moscow University in the development of hematology in Russia] Vorob'ev RI.
Probl Sotsialnoi Gig Istor Med 1994 Nov–Dec;(6):49–50 **(Rus)**

INSTRUMENTATION

Multiparameter immunophenotypic analysis of fine needle aspiration biopsies and other hematologic specimens by laser scanning cytometry. Clatch RJ, et al. **Acta Cytol** 1997 Jan–Feb;41(1):109–22
Identification of hematopoietic stem cells by the SE-9000 automated hematology analyzer in peripheral blood stem cell harvest samples. Takekawa K, et al. **Acta Haematol** 1997;98(1):54–5
Detection and classification of acute leukemia by the Coulter STKS Hematology Analyzer. Hoyer JD, et al.
Am J Clin Pathol 1996 Sep;106(3):352–8
Automated five-part white blood cell differential counts. Efficiency of software-generated white blood cell suspect flags of the hematology analyzers Sysmex SE-9000, Sysmex NE-8000, and Coulter STKS.
Thalhammer-Scherrer R, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):573–7
The impact of an integrated haematology screening system on laboratory practice. Macdonald AJ, et al.
Clin Lab Haematol 1996 Dec;18(4):271–6
Mean corpuscular volume-dependent deviations in red blood cell distribution width between Sysmex NE-8000 and SF-3000. Bartels PC, et al.
Eur J Clin Chem Clin Biochem 1997 Jul;35(7):549–50
Evaluation of the ABX Cobas Vega automated hematology analyzer and comparison with the Coulter STKS. Ferrero-Vacher C, et al. **Hematol Cell Ther** 1997 Jun; 39(3):149–58
What do we at present know about the ALCAT test and what is lacking? Bindslev-Jensen C, et al.
Monogr Allergy 1996;32:228–32 (5 ref.)
An internal laboratory evaluation of peripheral blood film abnormalities not detected by an automated blood cell counter (Coulter STKS). Hogan J, et al. **Pathology** 1996 Aug;28(3):287
[Short evaluation of the QBC-Vet Autoread System] Wegmann D, et al. **Tierarztl Prax** 1997 Apr;25(2):185–91 (Eng. Abstr.) **(Ger)**
[Unit for examining an intact blood smear. Osmotic resistance of erythrocytes] Tiurin-Kuz'min AIu. **Klin Lab Diagn** 1997

Jul;(7):47–8 **(Rus)**
[Blood viscosity analyzer] Dobrovol'skiĭ NA, et al. **Med Tekh** 1997 May–Jun;(3):13–6 (Eng. Abstr.) **(Rus)**
[Automated hematology: its evolution envisioned by "an old hematologist" (editorial)] Outeiriño Hernanz J. **Sangre (Barc)** 1997 Feb;42(1):3–4 **(Spa)**

METHODS

The Kleihauer technique: an accurate method of quantifying fetomaternal haemorrhage? Duckett JR, et al. **Br J Obstet Gynaecol** 1997 Jul;104(7):845–6
Image bank, diagnostic codification and telediagnosis in hematology. Flandrin G. **Leuk Lymphoma** 1997 Mar; 25(1–2):97–104
What do we at present know about the ALCAT test and what is lacking? Bindslev-Jensen C, et al. **Monogr Allergy** 1996;32:228–32 (5 ref.)
[Strategy for remote diagnosis and the image bank. A specific application for telepathology for hematology (editorial)] Flandrin G. **Ann Pathol** 1996;16(3):155–8 (14 ref.) **(Fre)**

ORGANIZATION & ADMINISTRATION

Where should oral anticoagulation monitoring take place? [editorial] Hobbs FD, et al. **Br J Gen Pract** 1997 Aug; 47(421):479–80
Multinational, multicultural, and multiprofessional lessons [editorial] Collins NH. **J Hematother** 1997 Jun;6(3):189–90
[Organizational models for the hematology areas of the district hospitals of Catalonia] Salinas R, et al. **Sangre (Barc)** 1996 Jun;41(3):211–20 (Eng. Abstr.) **(Spa)**

STANDARDS

Proficiency testing of hemoglobinopathy techniques in Ontario laboratories. Lafferty J, et al. **Am J Clin Pathol** 1997 May;107(5):567–75
Automated five-part white blood cell differential counts. Efficiency of software-generated white blood cell suspect flags of the hematology analyzers Sysmex SE-9000, Sysmex NE-8000, and Coulter STKS. Thalhammer-Scherrer R, et al. **Arch Pathol Lab Med** 1997 Jun;121(6):573–7
An open thesaurus for diagnostic codification in practical hematology. Flandrin G, et al. **Leuk Lymphoma** 1997 Mar; 25(1–2):104–9
Clinical hematology. In-clinic analysis, quality control, reference values, and system selection. Knoll JS, et al. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):981–1002 (21 ref.)
[Hematology Standardization Committee. Recommendations of the International Council for Standardization in Hematology (ICSH) for the evaluation of hematologic autoanalyzers] Besson I, et al. **Sangre (Barc)** 1996 Jun; 41(3):253–8 **(Spa)**
[Standardization Committee for Haematology. External Quality Assurance Program for General Hematology. Evaluation of the 1994 results] Gutiérrez G, et al. **Sangre (Barc)** 1996 Apr;41(2):115–23 (Eng. Abstr.) **(Spa)**

STATISTICS & NUMERICAL DATA

[Reference intervals and biological profile in a group of healthy elderly population in the Paris region] Cals MJ, et al. **Ann Biol Clin (Paris)** 1996;54(7):307–15 (Eng. Abstr.) **(Fre)**

TRENDS

ABC of clinical haematology. The future of haematology, molecular biology, and gene therapy. Fielding AK, et al. **BMJ** 1997 May 10;314(7091):1396–9 (0 ref.)
Hematology on the African continent. Jacobs P. **Exp Hematol** 1997 May;25(5):369–73 (0 ref.)
Haematology. New irons in the fire. Nieuwenhuis HK, et al. **Lancet** 1996 Dec 21–28;348 Suppl 2:sII9 (5 ref.)
Pediatric hematology and oncology in Cameroon, Africa: past and future perspectives. Abena Obama MT. **Pediatr Hematol Oncol** 1996 Jul–Aug;13(4):315–7 (5 ref.)
[Recent advances in hematology] Ruiź-Argüelles GJ, et al. **Gac Med Mex** 1996 May–Jun;132(3):277–93 (65 ref.) **(Spa)**

HEMATOMA

An unusual case of acute postpartum broad ligament haematoma. Maxwell C, et al. **Aust N Z J Obstet Gynaecol** 1997 May;37(2):239–41
Hematoma of the rectus abdominis muscle: case report and review of the literature. Dubinsky IL. **J Emerg Med** 1997 Mar–Apr;15(2):165–7 (07 ref.)
Neonatal subgaleal haematoma: associated risk factors, complications and outcome. Chadwick LM, et al. **J Paediatr Child Health** 1996 Jun;32(3):228–32
Diagnosis and management of duodenal injuries in children. Shilyansky J, et al. **J Pediatr Surg** 1997 Jun;32(6):880–6
[Spontaneous perirenal hematoma: diagnostic and therapeutic approach] Mantel A, et al. **Prog Urol** 1996 Jun;6(3):409–14 (Eng. Abstr.) **(Fre)**
[Subintimal hematoma of coronary artery] Iwase T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):610–3 (20 ref.) **(Jpn)**
[Aortic intramural hematoma and penetrating aortic ulcer] Vilacosta I, et al. **Rev Esp Cardiol** 1996;49 Suppl 4:63–76 (51 ref.) (Eng. Abstr.) **(Spa)**

BLOOD

Pelvic hematoma following angiography: another cause of elevated serum CA-125. Eddy GL Sr. **Gynecol Oncol** 1997 May;65(2):370–2

CHEMICALLY INDUCED

Unusual occurrence of spontaneous haematomas in three asymptomatic HIV-infected haemophilia patients a few days after the onset of ritonavir treatment [letter] Ginsburg C, et al. **AIDS** 1997 Mar;11(3):388–9
Hepatic bleeding and hemorrhagic shock following thrombolytic therapy in patients with acute myocardial infarction [letter] Gárcia-Jiménez A, et al. **Chest** 1997 Jun; 111(6):1787 (5 ref.)
Brachial plexopathy secondary to anticoagulant-induced hematoma as a complication of axillary arteriography. Shoup DW, et al. **J Am Osteopath Assoc** 1997 Feb; 97(2):102–5 (18 ref.)
Life-threatening retroperitoneal hematoma caused by anticoagulant therapy for myocardial infarction after SWL. Katz R, et al. **J Endourol** 1997 Feb;11(1):23–5
Spontaneous rectus sheath hematoma during treatment of pulmonary embolism with warfarin: report of a case. Chi TW, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Oct;12(10):601–4
Nontraumatic intramural hematoma of the duodenum complicating warfarin therapy. Gutstein DE, et al. **Mt Sinai J Med** 1997 Sep–Oct;64(4–5):339–41
Epidural hematoma after epidural anesthesia in a patient with peripheral vascular disease. Case report. Martínez-Palli G, et al. **Reg Anesth** 1996 Jul–Aug;21(4):342–6
The effect of low-dose subcutaneous heparin on postoperative wound hematomas: randomized clinical trial on hospitalized inguinal hernia patients in Germany [letter; comment] Goris RJ. **World J Surg** 1996 Mar–Apr; 20(3):378–9. Comment on: World J Surg 1995 May–Jun;19(3):416–8; discussion 419.
[Multi-truncular nerve compression by hematoma of the pyramidal muscle during anticoagulant therapy (letter)] Bouscarat F, et al. **Presse Med** 1997 Mar 8;26(7):320 **(Fre)**
[Retroperitoneal hematoma during heparin therapy. Comments on 3 cases] Di Rosa C, et al. **Minerva Chir** 1997 Apr;52(4):493–7 (30 ref.) (Eng. Abstr.) **(Ita)**

COMPLICATIONS

MR of cerebral abnormalities concomitant with primary intracerebral hematomas. Offenbacher H, et al. **AJNR Am J Neuroradiol** 1996 Mar;17(3):573–8
Intramural hematoma of the esophagus: ED diagnosis and treatment [letter] Ho CL, et al. **Am J Emerg Med** 1997 May;15(3):322–3
Subchorial hematoma: a probable cause of reversible nonimmune hydrops fetalis. Uchide K, et al. **Am J Perinatol** 1997 May;14(5):281–3
Brachial plexus injury due to compression: an alternate mechanism of injury: case report and review of the literature. Desai DC, et al. **Am Surg** 1997 Jun;63(6):487–9 (5 ref.)
Transient paraparesis after postdural puncture spinal hematoma in a patient receiving ketorolac. Gerancher JC, et al. **Anesthesiology** 1997 Feb;86(2):490–4 (26 ref.)
Posttraumatic left ventricular pseudoaneurysm due to intramyocardial dissecting hematoma. Maselli D, et al. **Ann Thorac Surg** 1997 Sep;64(3):830–1
Acute paraplegia in the absence of trauma. Maloy AL, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):225–6, 231
Giant duodenal hematoma in hemophilia A. Benjamin B, et al. **Indian Pediatr** 1996 May;33(5):411–4
Spontaneous, extra-dural haematoma causing spinal cord compression. Mustafa M, et al. **Int Orthop** 1996;20(6):383–4
Peritonsillar haematoma. Fergie N, et al. **J Laryngol Otol** 1997 Mar;111(3):266–8
Subperiosteal orbital haematoma presenting as proptosis at birth. Skull SA, et al. **J Paediatr Child Health** 1997 Jun; 33(3):256–8 (18 ref.)
Headache in intracerebral hematomas. Melo TP, et al. **Neurology** 1996 Aug;47(2):494–500
Bilateral total ophthalmoplegia due to midbrain hematoma. Worthington JM, et al. **Neurology** 1996 Apr;46(4):1176–7
Hemoperitoneum in peritoneal dialysis secondary to retroperitoneal hematoma [letter] Fernández Girón F, et al. **Perit Dial Int** 1996 Nov–Dec;16(6):644
An unusual case of anuria: spontaneous perirenal hematoma in a solitary kidney. Beccari M, et al. **Ren Fail** 1996 Jan; 18(1):147–50
Spinal cord dysfunction caused by non-traumatic hematomyelia. Karavelis A, et al. **Spinal Cord** 1996 May; 34(5):268–71 (20 ref.)
Acute brain swelling during removal of supratentorial cystic lesion caused by contralateral extradural hematoma: case report. Medina M, et al. **Surg Neurol** 1997 May; 47(5):428–31
[A case of hemorrhage from a vaginal hematoma complicated by retroperitoneal and gluteal hematomas during labor ending with a cesarean section] Kichukova D, et al. **Akush Ginekol (Sofiia)** 1997;36(1):28 **(Bul)**
[Bilirubin encephalopathy in an icteric bile-vomiting infant with high intestinal obstruction] de Weerd W, et al. **Ned Tijdschr Geneeskd** 1997 Jan 18;141(3):155–7 (Eng. Abstr.) **(Dut)**
[A rare cause of postpartum hemorrhage: a genital thrombus] Riethmuller D, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(2):154–8 (Eng. Abstr.) **(Fre)**
[Respiratory obstruction caused by retropharyngeal hematoma secondary to cervical spinal injury. Report of a case] Corbanese U, et al. **Minerva Anestesiol** 1995 Jul–Aug;61(7–8):339–42 (Eng. Abstr.) **(Ita)**
[A case of vesical endometriosis associated with Wunderlich syndrome] Shishido T, et al. **Hinyokika Kiyo** 1997 May; 43(5):363–5 (Eng. Abstr.) **(Jpn)**
[Pericardial hematoma 2 years after coronary surgery] García Fuster R, et al. **Rev Esp Cardiol** 1997 Jan;50(1):58–61 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Intradiploic hematoma [letter] Uemura K, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):397–8
Spontaneous rectus sheath hematoma during pregnancy mimicking abruptio placenta. Ramirez MM, et al. **Am J Perinatol** 1997 Jul;14(6):321–3
Ultrasonography and computed tomography reduce unnecessary surgery in abdominal rectus sheath haematoma. Moreno Gallego A, et al. **Br J Surg** 1997 Sep; 84(9):1295–7
Cervical mass lesion presenting as reflex sympathetic dystrophy of the hand. Bhatnagar A, et al. **Clin Exp Rheumatol** 1997 Jan–Feb;15(1):101–4
Medium-vessel PAN-type vasculitis associated with myelodysplastic syndrome and presenting as bilateral perinephric hematomas [letter] Brickner LA, et al. **Clin Exp Rheumatol** 1997 Mar–Apr;15(2):221–2
Serial endoscopic findings of spontaneous intramural hematoma of the esophagus. Van Laethem JL, et al. **Endoscopy** 1997 Jan;29(1):44–6
Intramural posttraumatic hematoma of the ascending aorta in a patient with a double aortic arch. Fattori R, et al. **Eur Radiol** 1997;7(1):51–3
Laparoscopic finding and imaging of the iatrogenic duodenal intramural hematoma. Han SJ, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):139–42
Forensic diaphanoscopy: how to investigate invisible subcutaneous hematomas on living subjects. Horisberger B, et al. **Int J Legal Med** 1997;110(2):73–8
Pelvic haematoma following trucut biopsy of the prostate. Anjum MI. **Int Urol Nephrol** 1996;28(6):781–5
Importance of clot structure in gradient-echo magnetic resonance imaging of hematoma. Taber KH, et al. **J Magn Reson Imaging** 1996 Nov–Dec;6(6):878–83
Congenital abnormality of the liver initially misdiagnosed as splenic haematoma. Dunlop DG, et al. **J R Soc Med** 1996 Dec;89(12):702–4
Posttraumatic retroperitoneal rupture of the right colon simulating a retroperitoneal hematoma. Duruisseau O, et al. **J Trauma** 1997 Apr;42(4):741–2
Diagnosis and treatment of thoracic aortic intramural hematoma. Muluk SC, et al. **J Vasc Surg** 1996 Dec; 24(6):1022–9
Images in clinical medicine. Aortic intramural hematoma. Harris KM, et al. **N Engl J Med** 1997 Jun 26;336(26):1875
Chronic encapsulated intracerebral haematomas [see comments] Ilkko E, et al. **Neuroradiology** 1996 Aug; 38(6):551–4. Comment in: Neuroradiology 1997 Feb;39(2):145.
Chronic encapsulated intracerebral haematomas [letter; comment] Schubiger O. **Neuroradiology** 1997 Feb;39(2):145 . Comment on: Neuroradiology 1996 Aug;38(6):551–4.
Nontraumatic spinal epidural hematoma: report of four cases and review of the literature. Lonjon MM, et al. **Neurosurgery** 1997 Aug;41(2):483–6; discussion 486–7 (28 ref.)
Postoperative blood flow monitoring after free-tissue transfer by means of the hydrogen clearance technique. Machens HG, et al. **Plast Reconstr Surg** 1997 Feb;99(2):493–505
Definitive diagnosis of intramural hematoma of the thoracic aorta with MR imaging [editorial; comment] Bluemke DA. **Radiology** 1997 Aug;204(2):319–21. Comment on: Radiology 1997 Aug;204(2):349–55.
Intramural hematoma of the thoracic aorta: MR image findings and their prognostic implications [see comments] Murray JG, et al. **Radiology** 1997 Aug;204(2):349–55. Comment in: Radiology 1997 Aug;204(2):319–21.
Hemophilic pseudotumor: spectrum of MR findings. Jaovisidha S, et al. **Skeletal Radiol** 1997 Aug;26(8):468–74
Spontaneous subcapsular hepatic hemorrhage associated with pregnancy: report of a case. Yotsumoto G, et al. **Surg Today** 1997;27(7):657–60
[Right retroauricular hematoma of late manifestation. Contribution of cardiac imaging] Meurin P, et al. **Ann Cardiol Angeiol (Paris)** 1996 Nov;45(9):503–6 (11 ref.) (Eng. Abstr.) **(Fre)**
[Clinical case of the month. Intramural aortic hematoma: an acute special aortic dissection] Radermecker MA, et al. **Rev Med Liege** 1996 May;51(5):332–5 **(Fre)**
[Intramural hematoma of the thoracic aorta: diagnostic imaging and differential diagnosis] Sommer T, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Sep;165(3):249–56 (Eng. Abstr.) **(Ger)**
[Intrapulmonary hematoma diagnosed by magnetic resonance imaging] Fukuyama S, et al.

Nippon Kyobu Shikkan Gakkai Zasshi 1997 Feb;35(2):245–9 (Eng. Abstr.) **(Jpn)**

[Hematoma of the rectus sheath as a gynecologic problem] Czekanowski R, et al. **Ginekol Pol** 1996 Jun;67(6):322–4 (Eng. Abstr.) **(Pol)**

[Isodense acute cerebral hematoma on computerized tomography] Ibarra B, et al. **Rev Neurol** 1997 Feb; 25(138):262 **(Spa)**

DRUG THERAPY

The effect of non-activated prothrombin complex concentrate (Proplex ST) on intraperitoneal hematoma in a hemophilia A patient with a factor VIII inhibitor. Kagawa H, et al. **Intern Med** 1996 Apr;35(4):319–22

Antioxidant effect of alpha-tocopherol on fracture haematoma in rabbits. Durak K, et al. **J Int Med Res** 1996 Sep–Oct;24(5):419–24

Neuroprotection by dextromethorphan in acute experimental subdural hematoma in the rat. Duhaime AC, et al. **J Neurotrauma** 1996 Feb;13(2):79–84

Medical therapy for intracerebral hematoma with the gamma-aminobutyric acid-A agonist muscimol. Lyden PD, et al. **Stroke** 1997 Feb;28(2):387–91

[Conservative treatment of post-traumatic hepatic hematoma. Case reports] Brunero M, et al. **Minerva Pediatr** 1996 Sep; 48(9):387–91 (Eng. Abstr.) **(Ita)**

ETIOLOGY

Effect of syringe size on bruising following subcutaneous heparin injection. Hadley SA, et al. **Am J Crit Care** 1996 Jul;5(4):271–6

Postoperative incision complications after cesarean section in patients with antepartum syndrome of hemolysis, elevated liver enzymes, and low platelets (HELLP): does delayed primary closure make a difference? Briggs R, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):893–6

Spontaneous liver hematoma in pregnancy not clearly associated with preeclampsia: a case presentation and literature review. Schwartz ML, et al. **Am J Obstet Gynecol** 1997 Jun;176(6):1328–32; discussion 1332–3 (19 ref.)

Acute radial nerve compression following routine venipuncture in an anticoagulated patient. Davison BL, et al. **Am J Orthop** 1996 Oct;25(10):712–3

Neck haematoma and airway obstruction in a pre-eclamptic patient: a complication of internal jugular vein cannulation. Lo WK, et al. **Anaesth Intensive Care** 1997 Aug;25(4):423–5

Serious spinal cord injury due to haematomyelia caused by spinal anaesthesia in a patient treated with low-dose heparin [see comments] Greaves JD. **Anaesthesia** 1997 Feb; 52(2):150–4. Comment in: Anaesthesia 1997 Jul;52(7):716.

Bilateral spontaneous subperiosteal hematoma of the orbits: a case report [letter] Griffeth MT, et al. **Arch Ophthalmol** 1997 May;115(5):679–80

Chronic subungual hematomas: a presumed immunologic puzzle resolved with a diagnosis of child abuse. Gavin LA, et al. **Arch Pediatr Adolesc Med** 1997 Jan;151(1):103–5

Vault haematoma following laparoscopic hysterectomy. Rosen DM, et al. **Aust N Z J Obstet Gynaecol** 1997 May; 37(2):220–2

Intracerebral haematoma formation in herpes simplex encephalitis: a case report. Malik A, et al. **Australas Radiol** 1997 Aug;41(3):303–5

Case quiz. Spontaneous rupture of a renal tumour with a perinephric haematoma. Ooi GC, et al. **Australas Radiol** 1997 Feb;41(1):79–81

Chronic extradural haematoma with delayed expansion. Manjunath-Prasad KS, et al. **Br J Neurosurg** 1997 Feb; 11(1):78–9

Residents' corner. Answer to case of the month #48. Intramural hematoma of the esophagus after sclerotherapy of esophageal varices. Mehta M, et al. **Can Assoc Radiol J** 1997 Jun;48(3):203–4

Epidural anaesthesia and spinal haematoma. Wulf H. **Can J Anaesth** 1996 Dec;43(12):1260–71 (103 ref.)

Coronary artery perforation with subepicardial hematoma. Furushima H, et al. **Cathet Cardiovasc Diagn** 1997 May; 41(1):59–61

Intramural esophageal hematoma after cardioversion. Hess U, et al. **Dis Esophagus** 1997 Jul;10(3):225–8 (12 ref.)

Sequential endoscopic findings in spontaneous intramural hematoma of the esophagus. Hsu MT, et al. **Endoscopy** 1996 Jun;28(5):465

Spontaneous haematoma of the umbilical cord with a single umbilical artery. Csecsei K, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Feb;64(2):231–3

Subpleural haematoma presenting as a 'pseudotumour' following fine-needle aspiration biopsy of the breast. Chadwick DR, et al. **Eur J Surg Oncol** 1996 Dec; 22(6):638–9

Intramural duodenal hematoma after endoscopic biopsy in leukemic patients. Lipson SA, et al. **Gastrointest Endosc** 1996 Nov;44(5):620–3

Intrahepatic hematoma with secondary Salmonella infection via biliary fistula. Cerwenka H, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):529–32

Massive intrahepatic hemorrhage as first manifestation of polyarteritis nodosa. Schröder W, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):148–52

Extracorporeal shock wave lithotripsy-induced renal laceration. Fukumori T, et al. **Int J Urol** 1997 Jul; 4(4):419–21

Subcapsular hematoma and hypertension following percutaneous needle biopsy of a transplanted kidney. Machida J, et al. **Int J Urol** 1996 May;3(3):228–30

Scrotal bruising as a sign of retroperitoneal haematoma following extracorporeal shock wave lithotripsy. Biri H, et al. **Int Urol Nephrol** 1997;29(3):287–90

Two cases of retrovesical haematoma following prostatic biopsy. Saçak V, et al. **Int Urol Nephrol** 1997;29(2):207–11

Vascular complications of laparoscopic surgery. Vasquez JM, et al. **J Am Assoc Gynecol Laparosc** 1994 Feb;1(2):163–7

Risk factors predicting surgically significant intracranial hematomas in patients with head injuries. Hung CC, et al. **J Formos Med Assoc** 1996 Apr;95(4):294–7

Subcapsular hematoma of the liver and pylethrombosis in the setting of cholestatic liver injury. Sakamoto H, et al. **J Gastroenterol** 1996 Dec;31(6):880–4

Extracapsular haemorrhage from a parathyroid adenoma presenting as a massive cervical haematoma. Hellier WP, et al. **J Laryngol Otol** 1997 Jun;111(6):585–7

Extradural hematoma following maxillary sinusitis. Case illustration. Sakamoto T, et al. **J Neurosurg** 1997 Jul; 87(1):132

Head injuries due to falls caused by seizures: a group at high risk for traumatic intracranial hematomas. Zwimpfer TJ, et al. **J Neurosurg** 1997 Mar;86(3):433–7

Thigh hematoma in the active and aging person with spinal cord injury. Odderson IR, et al. **J Spinal Cord Med** 1997 Jan;20(1):70–3

Leech therapy for massive scrotal hematoma following percutaneous transluminal angioplasty. Goessl C, et al. **J Urol** 1997 Aug;158(2):545

Acute renal failure from a subcapsular hematoma in a solitary kidney: an unusual complication of extracorporeal shock wave lithotripsy. Lipski B, et al. **J Urol** 1997 Jun; 157(6):2245

Penile fracture. Khan MA, et al. **JPMA J Pak Med Assoc** 1996 Jun;46(6):132–3

Intraorbital subperiosteal hematoma due to paranasal mucocele--case report. Aoki H, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):627–9

Experimental intracerebral hemorrhage: description of a double injection model in rats. Deinsberger W, et al. **Neurol Res** 1996 Oct;18(5):475–7

Stereotactic core breast biopsy of a minimal carcinoma complicated by a large hematoma: a management dilemma. Deutch BM, et al. **Radiology** 1997 Feb;202(2):431–3

Subcapsular splenic hematoma due to infectious mononucleosis. Tosato F, et al. **Riv Eur Sci Med Farmacol** 1995 Sep–Oct;17(5):157–9

Retroclival hematoma secondary to pituitary apoplexy. Goodman JM, et al. **Surg Neurol** 1997 Jan;47(1):79–80

Subcapsular hematoma of the spleen associated with acute pancreatitis. Thompson JE Jr, et al. **Surgery** 1997 Feb; 121(2):231–3

Subintimal hematoma of the aorta after deceleration injury [letter; comment] Baciewicz FA Jr. **Tex Heart Inst J** 1996; 23(3):248–9. Comment on: Tex Heart Inst J 1995;22(3):268–70. Comment on: Tex Heart Inst J 1996;23(1):70–1.

Expanding intrathoracic hemorrhagic lesion penetrating the thoracic wall: a rare complication of chronic tuberculous pleurisy. Nomori H, et al. **Thorac Cardiovasc Surg** 1995 Dec;43(6):358–60

Recurrent bleeding of angiomyolipomas in tuberous sclerosis. Chatterjee T, et al. **Urol Int** 1996;56(1):44–7

[Unilateral spontaneous adrenal hematoma during the postpartum period. Apropos of a case] Badaoui R, et al. **Cah Anesthesiol** 1996;44(4):369–71 (17 ref.) (Eng. Abstr.) **(Fre)**

[Subcapsular hematoma of the liver. Six cases and review of the literature] Matar N, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(1):89–93 (21 ref.) (Eng. Abstr.) **(Fre)**

[Post-traumatic hematoma of the duodenum. A case in a young child] Boulos L, et al. **J Radiol** 1997 Jan;78(1):61–4 (Eng. Abstr.) **(Fre)**

[Subcapsular hematoma complicating acute pyelonephritis] Jemni H, et al. **J Radiol** 1996 Aug;77(8):575–8 (Eng. Abstr.) **(Fre)**

[Subcapsular hematoma of the liver complicating hepatic fascioliasis] Sauvage PJ, et al. **J Radiol** 1996 Aug; 77(8):583–4 **(Fre)**

[Obstructive intramural hematoma of the esophagus after sclerotherapy] Benoit R, et al. **Presse Med** 1996 Sep 28; 25(28):1281–4 (18 ref.) (Eng. Abstr.) **(Fre)**

[Scurvy disclosed by hematuria and large parietal and pelvic hematomas (letter)] Boudon P, et al. **Rev Med Interne** 1997; 18(4):340–1 **(Fre)**

[Spontaneous retroperitoneal hematoma in adrenal metastasis] Tappe U, et al. **Dtsch Med Wochenschr** 1997 Apr 11; 122(15):471–4 (Eng. Abstr.) **(Ger)**

[Orbital hematomas] Schick B, et al. **Laryngorhinootologie** 1996 Jun;75(6):363–7 (Eng. Abstr.) **(Ger)**

[Liver hematomA and liver infarction: a severe complication of HELLP syndrome] Hahn U, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):460–2 **(Ger)**

[Incidence and therapy of peripheral arterial vascular complications after heart catheter examinations] Heintzen MP, et al. **Z Kardiol** 1997 Apr;86(4):264–72 (Eng. Abstr.) **(Ger)**

[A case of chronic expanding hematoma resected 37 years after lobectomy] Arinaga M, et al. **Kyobu Geka** 1997 Jul; 50(7):581–4 (Eng. Abstr.) **(Jpn)**

[A chronic encapsulated expanding hematoma with cyst formation caused by rupture of arteriovenous malformation: a case report] Sakamoto T, et al. **No Shinkei Geka** 1997 Jan;25(1):73–7 (Eng. Abstr.) **(Jpn)**

[Subepicardial hematoma] Nakano T, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(13):554–5 (4 ref.) **(Jpn)**

[Perirenal hematoma as a complication caused by extracorporeal lithotripsy] Kovačević Z, et al. **Vojnosanit Pregl** 1996 May–Jun;53(3):229–31 **(Scr)**

[Wunderlich's syndrome: report of 3 cases] Ara Goñi MA, et al. **Actas Urol Esp** 1997 Feb;21(2):158–62 (17 ref.) (Eng. Abstr.) **(Spa)**

[Renal hematoma as a result of internal ureteral catheterization] Lujan Galán M, et al. **Actas Urol Esp** 1997 Apr;21(4):427–9 (6 ref.) (Eng. Abstr.) **(Spa)**

[Retroperitoneal hematoma after percutaneous transluminal coronary angioplasty] Gómez Sánchez-Biedma C, et al. **An Med Interna** 1996 Aug;13(8):395–7 (Eng. Abstr.) **(Spa)**

[Subcapsular splenic hematoma associated with cytomegalovirus in an immunocompetent patient (letter)] Losada L, et al. **Enferm Infecc Microbiol Clin** 1997 Feb; 15(2):121–2 **(Spa)**

[Indication for spinal anesthesia for cesarean section in HELLP syndrome coagulopathy] Blasi A, et al. **Rev Esp Anestesiol Reanim** 1997 Feb;44(2):79–82 (Eng. Abstr.) **(Spa)**

[Massive hemorrhage caused by musculoskeletal trauma in the dorsal region (letter)] Güemes M, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):228–9 **(Spa)**

[Severe airway obstruction in 4 cases of postoperative obstructive hematoma (letter)] Ledesma M, et al. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):39–40 (Eng. Abstr.) **(Spa)**

[Measurement of intracranial pressure as a factor in the prognosis of the course of serious cranio-encephalic injuries] Arrotegui JI, et al. **Rev Neurol** 1997 Jul; 25(143):1022–4 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

The immune microenvironment of human fracture/soft-tissue hematomas and its relationship to systemic immunity. Hauser CJ, et al. **J Trauma** 1997 May; 42(5):895–903; discussion 903–4

Production of interleukin-10 in human fracture soft-tissue hematomas. Hauser CJ, et al. **Shock** 1996 Jul;6(1):3–6

METABOLISM

A comparison of the penetration of cefuroxime and cephamandole into bone, fat and haematoma fluid in patients undergoing total hip replacement. Lovering AM, et al. **J Antimicrob Chemother** 1997 Jul;40(1):99–104

Page kidney in a hemodialyzed patient [letter] [see comments] Nomura S, et al. **Nephron** 1996;72(1):106–7. Comment in: Nephron 1997;76(3):351.

MORTALITY

Operative results in hypertensive intracerebral hematomas in patients over 60. Piotrowski WP, et al. **Gerontology** 1996; 42(6):339–47

[Spontaneous intracerebral hematomas in the material of the Department of Neurosurgery of Medical Academy in Lublin (see comments)] Zderkiewicz E, et al. **Neurol Neurochir Pol** 1996 Jul–Aug;30(4):617–24 (Eng. Abstr.). Comment in: Neurol Neurochir Pol 1997 Jan–Feb;31(1):187. **(Pol)**

PATHOLOGY

Spinal cord injury due to haematomyelia [letter; comment] Tan J, et al. **Anaesthesia** 1997 Jul;52(7):716. Comment on: Anaesthesia 1997 Feb;52(2):150–4.

Sequential endoscopic findings in spontaneous intramural hematoma of the esophagus. Hsu MT, et al. **Endoscopy** 1996 Jun;28(5):465

Diaschisis of specific cerebellar lobules: pontine haematoma studied with high-resolution PET and MRI. Jacobs A, et al. **J Neurol** 1996 Feb;243(2):131–6

Bilateral total deafness due to pontine haematoma. Egan CA, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):628–31

Ancient hematoma: a unifying concept for a post-traumatic lesion mimicking an aggressive soft tissue neoplasm. Mentzel T, et al. **Mod Pathol** 1997 Apr;10(4):334–40

Kidney biopsy complicated by perirenal haematoma induces flare of systemic lupus erythematosus: two cases. Bachmeyer C, et al. **Nephrol Dial Transplant** 1996 Nov; 11(11):2299–301

Spin-echo MRI of chronic intracerebral haematomas. Brander A, et al. **Neuroradiology** 1997 Jan;39(1):25–9

Increasing irritability with sudden onset of flaccid weakness. Patel H, et al. **Semin Pediatr Neurol** 1996 Sep;3(3):192–7

[Measurement of intracranial pressure as a factor in the prognosis of the course of serious cranio-encephalic injuries] Arrotegui JI, et al. **Rev Neurol** 1997 Jul; 25(143):1022–4 (Eng. Abstr.) **(Spa)**

PHYSIOPATHOLOGY

Role of lysophosphatidic acid in endothelin-1- and hematoma-induced alteration of cerebral microcirculation. Yakubu MA, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):R703-9

Intradiploic haematoma behaving as a progressive mass lesion. Goel A, et al. **Br J Neurosurg** 1996 Dec;10(6):611-2

Role of endothelin-1 in cerebral hematoma-induced modification of cerebral vascular reactivity in piglets. Yakubu MA, et al. **Brain Res** 1996 Sep 23;734(1-2):149-56

A study of prognostic predictors of supratentorial haematomas. Misra UK, et al. **J Neurol** 1996 Jan; 243(1):96-100

Acute macroglossia causing upper-airway obstruction. Tytherleigh MG. **J Otolaryngol** 1996 Aug;25(4):271-2

Superacute phase blood pressure elevation may relate to massive hematoma in hypertensive putaminal hemorrhage. Isozumi K, et al. **Keio J Med** 1997 Jun;46(2):81-4

Perirenal haematoma as the presenting feature of polyarteritis nodosa: is it more common in Turkey? Oksüzoğlu BC, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):582-4

5-Hydroxytryptamine-induced vasoconstriction after cerebral hematoma in piglets. Yakubu MA, et al. **Pediatr Res** 1997 Mar;41(3):317-20

[Spontaneous hematomas of the cerebellum over the age of 60 years] Van Calenbergh F, et al. **Neurochirurgie** 1996; 42(3):162-7; discussion 167-8 (24 ref.) (Eng. Abstr.) **(Fre)**

[Isodense acute cerebral hematoma on computerized tomography] Ibarra B, et al. **Rev Neurol** 1997 Feb; 25(138):262 **(Spa)**

PREVENTION & CONTROL

Femoral complications and bed rest duration after coronary arteriography. Lim R, et al. **Am J Cardiol** 1997 Jul 15; 80(2):222-3

Effects of intraoperative manual descending compressions on saphenous vein incision healing. Moody CA, et al. **AORN J** 1995 Dec;62(6):913-23

Prevention of seromas and hematomas after face-lift surgery with the use of postoperative vacuum drains. Perkins SW, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jul; 123(7):743-5

Central venous cannulation: how to do it. Okutubo FA. **Br J Hosp Med** 1997 Apr 16-May 6;57(8):368-70

A new device for prevention of postoperative haematoma in the surgery of varicose veins. Raso AM, et al. **J Cardiovasc Surg (Torino)** 1997 Apr;38(2):177-80

PSYCHOLOGY

Associative agnosia and optic aphasia: qualitative or quantitative difference? De Renzi E, et al. **Cortex** 1997 Mar; 33(1):115-30

Music alexia in a patient with mild pure alexia: disturbed visual perception of nonverbal meaningful figures. Horikoshi T, et al. **Cortex** 1997 Mar;33(1):187-94

RADIOGRAPHY

Displaced extrapleural fat as revealed by CT scanning: evidence of extrapleural hematoma. Aquino SL, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):687-9

A mediastinal hematoma after a fall. Earls JP, et al. **AJR Am J Roentgenol** 1997 Sep;169(3):659

Spontaneous intramural haematoma of the oesophagus: radiologic recognition. Clark W, et al. **Australas Radiol** 1996 Aug;40(3):269-72

Spontaneous intramural small bowel haemorrhage: importance of non-contrast CT. Lane MJ, et al. **Clin Radiol** 1997 May;52(5):378-80

Spontaneous rectus sheath hematoma during treatment of pulmonary embolism with warfarin: report of a case. Chi TW, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Oct;12(10):601-4

Bilateral epidural hematoma in a neonate. Lieu AS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Jul; 12(7):434-6

[Dissecting hematoma of the thoracic aorta] Fossati P, et al. **J Radiol** 1997 Jul;78(7):517-8 **(Fre)**

[Rectus sheath hematoma--detection of hemorrhage of ruptured aneurysm of the epigastric artery in CT] Weishaupt D, et al. **Vasa** 1997;26(1):55-7 (Eng. Abstr.) **(Ger)**

[A 69-year-old woman with unconsciousness] Morimoto K, et al. **J Cardiol** 1996 Aug;28(2):113-4 **(Jpn)**

RADIONUCLIDE IMAGING

Large subcapsular hematoma in transplant kidney seen on renal scan. Goyal M, et al. **Clin Nucl Med** 1996 Apr; 21(4):345-6

Tc-99m MIBI lung imaging of a large pulmonary hematoma. Sobić-Saranović D, et al. **Clin Nucl Med** 1997 Mar; 22(3):188-90

[Positron-emission tomography in intracranial hematomas] Rudas MS, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Jan-Mar;(1):27-30 (Eng. Abstr.) **(Rus)**

RADIOTHERAPY

Treatment of hemophilic pseudotumor with low-dose radiotherapy. Ozbek N, et al. **Turk J Pediatr** 1996 Jan-Mar; 38(1):91-4

SURGERY

The difficult airway: propofol infusion as an alternative to gaseous induction. Ludbrook GL, et al. **Anaesth Intensive Care** 1997 Feb;25(1):71-3

Intraoperative jugular desaturation during surgery for traumatic intracranial hematomas. Gopinath SP, et al. **Anesth Analg** 1996 Nov;83(5):1014-21

Chronic expanding hematoma in the chest. Hanagiri T, et al. **Ann Thorac Surg** 1997 Aug;64(2):559-61

Internal thoracic artery pedicle hematoma management with radial artery extension [letter] Ramasubrahmanyam G, et al. **Ann Thorac Surg** 1997 Jan;63(1):304

Hematoma and abscess of the nasal septum in children. Canty PA, et al. **Arch Otolaryngol Head Neck Surg** 1996 Dec; 122(12):1373-6

Arthroscopic shaving of a hematoma after total knee arthroplasty. Zaman TM, et al. **Arthroscopy** 1996 Aug; 12(4):500-1

Operative results in hypertensive intracerebral hematomas in patients over 60. Piotrowski WP, et al. **Gerontology** 1996; 42(6):339-47

'Efficient' timely evacuation of intracranial haematoma--the effect of transport direct to a specialist centre. Wright KD, et al. **Injury** 1996 Dec;27(10):719-21

Characterization and surgical resection of an organized pericardial hematoma assisted by transesophageal echocardiography. Kimura BJ, et al. **J Am Soc Echocardiogr** 1996 Sep-Oct;9(5):712-5

Capsulectomy: a cure for the page kidney. Moriarty KP, et al. **J Pediatr Surg** 1997 Jun;32(6):831-3

Vulvovaginal hematomas complicating delivery. Rationale for drainage of the hematoma cavity. Zahn CM, et al. **J Reprod Med** 1996 Aug;41(8):569-74

The effect of immediate decompression on the optic nerve in retrobulbar hematoma. Göçer AI, et al. **Neurosurg Rev** 1996;19(3):169-73

Xanthogranuloma with massive hematoma in the third ventricle: case report. Tomita H, et al. **Neurosurgery** 1996 Sep;39(3):591-4

Traumatic injury of the penis: surgical management. Cortellini P, et al. **Scand J Urol Nephrol** 1996 Dec; 30(6):517-9

[Management of hematoma of the nasal septum and abscesses of the nasal septum] Kastenbauer ER. **Laryngorhinootologie** 1997 Jan;76(1):A1-5 **(Ger)**

[Excision of a chronic expanding hematoma developing after thoracoplasty: a case report] Isogami K, et al. **Kyobu Geka** 1997 Jun;50(6):495-7 (Eng. Abstr.) **(Jpn)**

[A case of non-traumatic intramural hematoma of the duodenum effectively treated with percutaneous transhepatic aspiration drainage] Nakazawa T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):186-90 **(Jpn)**

[Surgical decompression of the orbit in a case of post-traumatic retrobulbar hematoma] Kmera-Muszyńska M, et al. **Klin Oczna** 1996 Mar;98(3):229-31 (Eng. Abstr.) **(Pol)**

[A retroperitoneal hematoma after appendectomy] Astakhov GI, et al. **Vestn Khir Im I I Grek** 1997;156(1):110 **(Rus)**

[An intramural hematoma of the duodenum in a child] Konstantinov PI, et al. **Vestn Khir Im I I Grek** 1996;(1):66 **(Rus)**

[Phoniatric surgery and conservative treatment of vocal cord hematoma] Milutinović Z. **Srp Arh Celok Lek** 1997 Mar-Apr;125(3-4):89-92 (Eng. Abstr.) **(Scc)**

THERAPY

Percutaneous decompression of an iliopsoas hematoma. Holscher RS, et al. **Abdom Imaging** 1997 Jan-Feb; 22(1):114-6

Treatment of acute auricular haematoma. Quine SM, et al. **J Laryngol Otol** 1996 Sep;110(9):862-3

Leech therapy for massive scrotal hematoma following percutaneous transluminal angioplasty. Goessl C, et al. **J Urol** 1997 Aug;158(2):545

Diagnosis and treatment of thoracic aortic intramural hematoma. Muluk SC, et al. **J Vasc Surg** 1996 Dec; 24(6):1022-9

[Gravity or suction drainage in thyroid surgery? Control of efficacy with ultrasound determination of residual hematoma (published erratum appears in Langenbecks Arch Chir 1997;382(2):116)] Schwarz W, et al. **Langenbecks Arch Chir** 1996;381(6):337-42 (Eng. Abstr.) **(Ger)**

[Chronic expanding hematoma following pneumonectomy managed with a thoracic balloon: a case report] Shimokawa T, et al. **Kyobu Geka** 1997 May;50(5):417-20 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

Subcapsular hematoma and hypertension following percutaneous needle biopsy of a transplanted kidney. Machida J, et al. **Int J Urol** 1996 May;3(3):228-30

Characterization and surgical resection of an organized pericardial hematoma assisted by transesophageal echocardiography. Kimura BJ, et al. **J Am Soc Echocardiogr** 1996 Sep-Oct;9(5):712-5

Neonatal radiology casebook. Splenic hematoma as a cause of hypovolemic shock in a very low birth weight neonate. Opalach RM, et al. **J Perinatol** 1996 Jul-Aug;16(4):313-4

Scrotal hematoma due to neonatal adrenal hemorrhage: the value of ultrasonography in avoiding unnecessary surgery. Miele V, et al. **Pediatr Radiol** 1997 Aug;27(8):672-4

[The use of transesophageal echocardiography in the diagnosis of aortic hematoma after an aortic recoarctation angioplasty] Mercé J, et al. **Rev Esp Cardiol** 1997 May; 50(5):355-6 (Eng. Abstr.) **(Spa)**

VETERINARY

The use of ultrasonography in the diagnosis and treatment of a haematoma in the corpus cavernosum penis of a stallion. Hyland J, et al. **Aust Vet J** 1995 Dec;72(12):468-9

Evaluation of closed-suction drainage for treating auricular hematomas. Swaim SF, et al. **J Am Anim Hosp Assoc** 1996 Jan-Feb;32(1):36-43

Use of Doppler ultrasonography and positive-contrast corpus cavernosography to evaluate a persistent penile hematoma in a bull. Anderson DE, et al. **J Am Vet Med Assoc** 1996 Nov 1;209(9):1611-4

Theriogenology question of the month. Excessive hemorrhaging from ovarian hematomas on both ovaries. Sedrish SA, et al. **J Am Vet Med Assoc** 1997 Jan 15; 210(2):179-80

Acute small intestinal injury associated with hematomas in the mesentery of four horses. Van Hoogmoed L, et al. **J Am Vet Med Assoc** i996 Oct 15;209(8):1453-6

Immunopathogenesis of canine aural haematoma. Joyce JA, et al. **J Small Anim Pract** 1997 Apr;38(4):152-8

Haematoma of the heel as a cause of lameness in dairy cattle [see comments] Blowey RW. **Vet Rec** 1997 May 10; 140(19):507-8. Comment in: Vet Rec 1997 May 24;140(21):564.

Haematoma of the heel as a cause of lameness in dairy cattle [letter; comment] Nash GD. **Vet Rec** 1997 May 24; 140(21):564. Comment on: Vet Rec 1997 May 10;140(19):507-8.

VIROLOGY

Spontaneous retropharyngeal haematoma attributable to Epstein-Barr virus infection. Jones TM, et al. **J Laryngol Otol** 1996 Nov;110(11):1075-7

HEMATOMA, EPIDURAL

[Neonatal extradural hematoma (letter)] Mallet EC, et al. **Arch Pediatr** 1996 Jun;3(6):608-9 **(Fre)**

[Acute epidural hematoma of posterior fossa: comparative analysis between 20 cases in adults and 10 cases in children] Suyama Y, et al. **No Shinkei Geka** 1996 Jul;24(7):621-4 (Eng. Abstr.) **(Jpn)**

CHEMICALLY INDUCED

Management of spinal epidural hematoma after tissue plasminogen activator. A case report. Connolly ES Jr, et al. **Spine** 1996 Jul 15;21(14):1694-8 (29 ref.)

[Cervical extradural hematoma under coagulants. Review of etiologies and prognosis] Hage P, et al. **Rev Neurol (Paris)** 1997 Feb;155(1):67-8 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Epidural hematoma complicating cholestasis of pregnancy. Yarnell RW, et al. **Curr Opin Obstet Gynecol** 1996 Jun; 8(3):239-42

Spinal epidural hematoma progressing to Brown-Sequard syndrome: report of a case. Hancock JB, et al. **J Emerg Med** 1997 May-Jun;15(3):309-12

[Transient neurological manifestations disclosing spontaneous acute cervical epidural hematoma] Le Coz P, et al. **Rev Neurol (Paris)** 1997 Jun;153(5):325-30 (37 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Nontraumatic spinal epidural hematomas. MR features. Lövblad KO, et al. **Acta Radiol** 1997 Jan;38(1):8-13

Spinal epidural hematoma detected by lumbar epidural puncture. Harvey SC, et al. **Anesth Analg** 1997 May; 84(5):1136-9

Cervical spinal epidural haematoma: the double jeopardy. Phookan G, et al. **Ann Med** 1996 Oct;28(5):407-11

Imaging findings of spontaneous spinal epidural hematoma. Chen CJ, et al. **J Formos Med Assoc** 1997 Apr;96(4):283-7

Vertex epidural hematomas: considerations in the MRI era. Song JH, et al. **J Korean Med Sci** 1996 Jun;11(3):278-81

Spontaneous spinal extradural hematoma during pregnancy. Carroll SG, et al. **J Matern Fetal Med** 1997 Jul-Aug; 6(4):218-9

Acute spontaneous spinal epidural hematoma--a life-threatening emergency. Rahman NU, et al. **JPMA J Pak Med Assoc** 1997 May;47(5):148-50 (17 ref.)

Central gadolinium enhancement of an acute spontaneous spinal epidural haematoma. Chen CJ, et al. **Neuroradiology** 1996 May;38 Suppl 1:S114-6

Intradiploic haemangioma associated with epidural haematoma. Uemura K, et al. **Neuroradiology** 1996 Jul; 38(5):456-7

Epidural hematoma of the lumbar spine, simulating extruded lumbar disk herniation: clinical, discographic, and enhanced magnetic resonance imaging features. A case report.

HEMATOMA, EPIDURAL

Watanabe N, et al. **Spine** 1997 Jan 1;22(1):105–9

[MR imaging of spontaneous spinal epidural hematoma] Shima H, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Mar;57(4):165–9 (Eng. Abstr.) **(Jpn)**

[Ewing's sarcoma at the occipital bone presenting as acute epidural hematoma: a case report] Yamashita Y, et al. **No Shinkei Geka** 1997 Jun;25(6):567–71 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Spontaneous cervicothoracic epidural hematoma following prolonged valsalva secondary to trumpet playing. David S, et al. **Am J Emerg Med** 1997 Jan;15(1):73–5

Spinal epidural hematoma detected by lumbar epidural puncture. Harvey SC, et al. **Anesth Analg** 1997 May; 84(5):1136–9

Spontaneous spinal epidural hematomas: is the role of dural arteriovenous malformations underestimated? Brunori A, et al. **Eur Spine J** 1996;5(4):264–7

Cervical spontaneous epidural hematoma as a complication of non-Hodgkin's lymphoma. Mastronardi L, et al. **Eur Spine J** 1996;5(4):268–71

Spinal epidural hematoma and ankylosing spondylitis. Van de Straete S, et al. **J Belge Radiol** 1997 Jun;80(3):109–10

Epidural hematoma in an ambulatory surgical patient. Porterfield WR, et al. **J Clin Anesth** 1997 Feb;9(1):74–7

Skull infarction and epidural hematomas in a patient with sickle cell anemia. Resar LM, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):413–5

Bacterial meningitis and lumbar epidural hematoma due to lumbar acupunctures: a case report. Chen CY, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 May; 13(5):328–31

Cervical epidural hematoma after chiropractic manipulation in a healthy young woman: case report. Segal DH, et al. **Neurosurgery** 1996 Nov;39(5):1043–5

Delayed extradural hematoma after mild head injury: report of three cases. Riesgo P, et al. **Surg Neurol** 1997 Sep; 48(3):226–31

[Epidural spinal hematoma following thrombolytic therapy for an acute myocardial infarct] Zafra Sánchez J, et al. **Rev Esp Cardiol** 1997 Jun;50(6):448–50 (Eng. Abstr.) **(Spa)**

[Spinal epidural hematoma in anticoagulated patient. Letter] Rodríguez J, et al. **Rev Neurol** 1997 Feb;25(138):308–9 **(Spa)**

PATHOLOGY

Primary Candida albicans empyema associated with epidural hematomas in craniocervical junction. Duffner F, et al. **Clin Neuropathol** 1997 May–Jun;16(3):143–6

PHYSIOPATHOLOGY

Prognostic factors in severely head injured adult patients with epidural haematoma's. Servadei F. **Acta Neurochir (Wien)** 1997;139(4):273–8 (44 ref.)

[Spinal epidural hematoma in anticoagulated patient. Letter] Rodríguez J, et al. **Rev Neurol** 1997 Feb;25(138):308–9 **(Spa)**

RADIOGRAPHY

Conservative management of extradural haematomas: effects of skull fractures on resorption rate. Tuncer R, et al. **Acta Neurochir (Wien)** 1997;139(3):203–7

Delayed presentation of an epidural hematoma. Ferrera PC, et al. **Am J Emerg Med** 1997 Jan;15(1):76–8

SURGERY

Surgery in primary supratentorial intracerebral hematoma: a meta-analysis of randomized trials. Prasad K, et al. **Acta Neurol Scand** 1997 Feb;95(2):103–10

Transoral evacuation of a clivus extradural haematoma with good recovery: a case report. Marks SM, et al. **Br J Neurosurg** 1997 Jun;11(3):245–7

Operative treatment of spontaneous spinal epidural hematomas: a study of the factors determining postoperative outcome. Groen RJ, et al. **Neurosurgery** 1996 Sep;39(3):494–508; discussion 508–9 (22 ref.)

Acute spontaneous spinal epidural hematoma: the influence of magnetic resonance imaging on diagnosis and treatment. Jamjoom ZA. **Surg Neurol** 1996 Oct;46(4):345–9

[Midline and vertex epidural hematomas: clinical aspects, surgical indications and therapy] Kunz U, et al. **Unfallchirurg** 1996 Sep;99(9):628–32 (Eng. Abstr.) **(Ger)**

[Spontaneous spinal epidural hematoma: case report] Nakamura H, et al. **No Shinkei Geka** 1997 Apr;25(4):379–83 (20 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

Nonoperative treatment of acute extradural hematomas: analysis of 80 cases. Bezircioğlu H, et al. **J Trauma** 1996 Oct;41(4):696–8

HEMATOMA, SUBDURAL

Rapid resolution of symptomatic acute subdural hematoma: case report. Matsuyama T, et al. **Surg Neurol** 1997 Aug; 48(2):193–6

An overview of chronic subdural hematoma: experience with 2300 cases. Sambasivan M. **Surg Neurol** 1997 May; 47(5):418–22

Arterial subdural hematoma [letter; comment] Spitzer D, et al. **Surg Neurol** 1997 Aug;48(2):210. Comment on: Surg Neurol 1997 Jan;47(1):9–11.

[The cases of acute spontaneous subdural hematoma] Yagi T, et al. **No Shinkei Geka** 1996 Jul;24(7):665–9 (23 ref.) (Eng. Abstr.) **(Jpn)**

BLOOD

Subdural hematoma and lupus anticoagulants. Moll S, et al. **Stroke** 1997 Mar;28(3):646–8

CHEMICALLY INDUCED

Spontaneous acute subdural hematoma precipitated by cocaine abuse: case report. Keller TM, et al. **Surg Neurol** 1997 Jan;47(1):12–4; discussion 14–5

COMPLICATIONS

Intracranial hypertension syndrome as an unusual form of presentation of spinal subarachnoid haemorrhage and subdural haematoma. Benito-León J, et al. **Acta Neurochir (Wien)** 1997;139(3):261–2

Connective tissue reactions in subdural haematomas: imaging with contrast-enhancement MRI. Spreer J, et al. **Acta Neurochir (Wien)** 1997;139(6):560–5

Impairment of short-term memory in left hemispheric traumatic brain injuries. Maeshima S, et al. **Brain Inj** 1997 Apr;11(4):279–86

Hematogenous infections of subdural hematomas [letter; comment] Barton LL. **Clin Infect Dis** 1997 Jun;24(6):1284 . Comment on: Clin Infect Dis 1996 Sep;23(3):662.

Subdural hematoma as a cause of contralateral dystonia. Nobbe FA, et al. **Clin Neurol Neurosurg** 1997 Feb; 99(1):37–9

Urinary retention and space-occupying lesions of the frontal cortex. Lang EW, et al. **Eur Neurol** 1996;36(1):43–7

Chordoid meningioma associated with chronic subdural hematoma. Kumar S, et al. **Indian Pediatr** 1996 Sep; 33(9):783–5

Sudden deterioration in an elderly trauma patient [clinical conference] Nadel ES, et al. **J Emerg Med** 1997 May–Jun; 15(3):367–70

Tremor caused by ipsilateral chronic subdural hematoma. Case illustration. Lin JJ, et al. **J Neurosurg** 1997 Sep; 87(3):474

Renal artery pseudoaneurysm: a cause of delayed hematuria in blunt trauma. Farrell TM, et al. **J Trauma** 1996 Dec; 41(6):1067–8

Parkinsonism due to chronic subdural hematoma. Sunada I, et al. **Neurol Med Chir (Tokyo)** 1996 Feb;36(2):99–101

Symptomatic subacute subdural hematoma associated with cerebral hemispheric swelling and ischemia. Aoki N, et al. **Neurol Res** 1996 Apr;18(2):145–9

Haemophilus influenzae type b secondary infection of subdural hematomas [letter; comment] Barton LL. **Pediatr Infect Dis J** 1997 May;16(5):539. Comment on: Pediatr Infect Dis J 1996 Dec;15(12):1139–40.

Staphylococcus aureus dissemination to a preexisting subdural hematoma [letter] [see comments] Levy I, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1139–40. Comment in: Pediatr Infect Dis J 1997 May;16(5):539.

Dementia in a diabetic man. Odawara M, et al. **Postgrad Med J** 1997 Jun;73(860):379–80

[A case of infected subdural hematoma complicating chronic subdural hematoma in a healthy adult man] Yamasaki F, et al. **No To Shinkei** 1997 Jan;49(1):81–4 (Eng. Abstr.) **(Jpn)**

[Successful treatment of subdural hematoma with operation in a patient with acute promyelocytic leukemia] Okubo C, et al. **Rinsho Ketsueki** 1997 Jun;38(6):539–43 (Eng. Abstr.) **(Jpn)**

[Chronic subdural hematoma secondary to an accidental dural puncture during lumbar epidural anesthesia] García-Sánchez MJ, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):327–9 (Eng. Abstr.) **(Spa)**

CONGENITAL

Acute subdural hematoma associated with cerebral infarction in the full-term neonate. Steinbok P, et al. **Pediatr Neurosurg** 1995;23(4):206–15

DIAGNOSIS

Recanalization of the falcine sinus after venous sinus thrombosis. Kesava PP. **AJNR Am J Neuroradiol** 1996 Oct; 17(9):1646–8

Definition and pathophysiology of subdural hygroma. Wippold FJ 2nd. **AJR Am J Roentgenol** 1996 Oct; 167(4):1061

Chronic subdural haematoma and neural dysregulation of pancreatic islets. Rais NM, et al. **J Assoc Physicians India** 1995 Jun;43(6):444–5

Chronic subdural hematoma in the elderly: a case report. Elie M, et al. **J Geriatr Psychiatry Neurol** 1996 Apr; 9(2):100–1 (12 ref.)

Atraumatic subdural hematoma associated with pre-eclampsia. Giannina G, et al. **J Matern Fetal Med** 1997 Mar–Apr;6(2):93–5

Simultaneous spinal and intracranial chronic subdural hematoma. Case illustration. Leber KA, et al. **J Neurosurg** 1997 Oct;87(4):644

Subdural hemorrhage of the cauda equina. A rare complication of cerebrospinal fluid shunt. Case report. Wurm G, et al. **Neurosurg Rev** 1996;19(2):113–7

Subdural hemorrhage as an initial sign of glutaric aciduria type 1: a diagnostic pitfall. Woelfle J, et al. **Pediatr Radiol** 1996 Nov;26(11):779–81

Differential diagnosis of electrocardiographic changes in altered mental state. Ooi SB. **Singapore Med J** 1995 Oct; 36(5):549, 571–2

Spontaneous lumbar subdural haematoma--a case report. Png MA. **Singapore Med J** 1997 Feb;38(2):76–8

Spinal subdural hematoma. Shimada Y, et al. **Skeletal Radiol** 1996 Jul;25(5):477–80

[Vitreous and fundus changes in Terson syndrome. 3 case reports] Meier P, et al. **Klin Monatsbl Augenheilkd** 1996 Oct;209(4):244–8 (Eng. Abstr.) **(Ger)**

ENZYMOLOGY

Enhanced acetylcholinesterase in chronic subdural hematomas. Shiraishi K. **Nagoya J Med Sci** 1997 Mar; 60(1–2):43–8

EPIDEMIOLOGY

Subdural hematoma and lupus anticoagulants. Moll S, et al. **Stroke** 1997 Mar;28(3):646–8

ETIOLOGY

Intracranial subdural haematoma--a rare complication following spinal anaesthesia. Bjärnhall M, et al. **Acta Anaesthesiol Scand** 1996 Nov;40(10):1249–51

Chronic subdural haematoma and Streptococcus pneumoniae-associated haemolytic-uraemic syndrome [letter] Sajjanhar T, et al. **Acta Paediatr** 1996 Sep; 85(9):1135–6

Subdural hematoma following roller coaster ride while anticoagulated. Snyder RW, et al. **Am J Med** 1997 May; 102(5):488–9

Intrathecal hematoma and arachnoiditis after prophylactic blood patch through a catheter [letter] Aldrete JA, et al. **Anesth Analg** 1997 Jan;84(1):233–4

Hematogenous dissemination of Escherichia coli to a preexistent subdural hematoma in a child [letter; comment] [see comments] Miedema CJ, et al. **Clin Infect Dis** 1996 Sep;23(3):662. Comment on: Clin Infect Dis 1995 Aug;21(2):458–9. Comment in: Clin Infect Dis 1997 Jun;24(6):1284.

Detection of ruptured cerebral bridging veins at autopsy. Maxeiner H. **Forensic Sci Int** 1997 Sep 19;89(1–2):103–10

Wegener's granulomatosis with dural involvement as the initial clinical manifestation. Shiotani A, et al. **Intern Med** 1997 Jul;36(7):514–8

Atraumatic subdural hematoma associated with pre-eclampsia. Giannina G, et al. **J Matern Fetal Med** 1997 Mar–Apr;6(2):93–5

Contralateral massive acute subdural collection after endoscopic third ventriculostomy - a case report. Mohanty A, et al. **Minim Invasive Neurosurg** 1997 Jun;40(2):59–61

Acute subdural hematoma without subarachnoid hemorrhage due to ruptured intracranial aneurysm--case report. Ishibashi A, et al. **Neurol Med Chir (Tokyo)** 1997 Jul; 37(7):533–7

Bilateral chronic subdural hematomas associated with intracranial hypotension--case report. Nakajima H, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):647–9

Dural cavernous angioma causing acute subdural hemorrhage--case report. Suzuki K, et al. **Neurol Med Chir (Tokyo)** 1996 Aug;36(8):580–2

Cerebral venous sinus thrombosis associated with systemic multiple hemangiomas manifesting as chronic subdural hematoma--case report. Takamura Y, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):650–3

Ginkgo biloba [letter; comment] Gilbert GJ. **Neurology** 1997 Apr;48(4):1137. Comment on: Neurology 1996 Jun;46(6):1775–6.

Ginkgo biloba [letter; comment] Odawara M, et al. **Neurology** 1997 Mar;48(3):789–90. Comment on: Neurology 1996 Jun;46(6):1775–6.

Acute subdural hematoma caused by a ruptured giant intracavernous aneurysm: case report. McLaughlin MR, et al. **Neurosurgery** 1996 Feb;38(2):388–92

Intracranial hematoma in experienced teenage equestrians. McAbee GN, et al. **Pediatr Neurol** 1996 Oct;15(3):235–6

Bilateral subdural hematomas in a newborn infant. Stephens RP, et al. **Pediatrics** 1997 Apr;99(4):619–21

Postpartum bilateral subdural hematomas following spinal anesthesia: case report. Cohen JE, et al. **Surg Neurol** 1997 Jan;47(1):6–8

Acute spontaneous subdural hematoma of arterial origin: a report of five cases [see comments] Koç RK, et al. **Surg Neurol** 1997 Jan;47(1):9–11 (21 ref.). Comment in: Surg Neurol 1997 Aug;48(2):210.

Acute subdural hematomas due to rupture of cortical arteries: a study of the points of rupture in 19 cases. Matsuyama T, et al. **Surg Neurol** 1997 May;47(5):423–7

[Arachnoid cysts and subdural hematomas] Attané F, et al. **Rev Neurol (Paris)** 1996 Nov;152(11):695–9 (22 ref.) (Eng. Abstr.) **(Fre)**

[An elderly patient with traumatic acute subdural hematoma who "talked and deteriorated"] Komatsu H, et al. **Masui** 1996 Jun;45(6):746–9 (Eng. Abstr.) **(Jpn)**

[Three cases of acute subdural hematoma in abused children]

Fukui K, et al. **No Shinkei Geka** 1996 Oct;24(10):945–8 (Eng. Abstr.) **(Jpn)**

[A ruptured aneurysm of the distal posterior inferior cerebellar artery associated with acute subdural hematoma of the posterior fossa: a case report] Miyagi A, et al. **No Shinkei Geka** 1997 Jun;25(6):537–41 (Eng. Abstr.) **(Jpn)**

[A case of chronic subdural hematoma associated with idiopathic thrombocytopenic purpura (ITP)] Miyamoto T, et al. **No Shinkei Geka** 1997 Feb;25(2):157–61 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Acute subdural hematoma caused by professional boxing] Sawauchi S, et al. **No Shinkei Geka** 1996 Oct;24(10):905–11 (Eng. Abstr.) **(Jpn)**

[Subdural hematoma associated with arachnoid cyst] Muñoz A, et al. **Neurologia** 1996 Aug–Sep;11(7):263–7 (Eng. Abstr.) **(Spa)**

METABOLISM

Marked alterations in the cellular localisation and levels of apolipoprotein E following acute subdural haematoma in rat. Horsburgh K, et al. **Brain Res** 1997 Jul 18;763(1):103–10

Electrophoretic demonstration of high molecular weight fibrin degradation products persisting in chronic subdural hematomas. Toyosawa M, et al. **Electrophoresis** 1997 Jan; 18(1):118–21

Effect of the novel high–affinity glycine–site N–methyl–D–aspartate antagonist ACEA–1021 on 125I–MK–801 binding after subdural hematoma in the rat: an in vivo autoradiographic study. Di X, et al. **J Neurosurg** 1996 Oct;85(4):655–61

Rate constant of gadolinium (Gd)–DTPA transfer into chronic subdural hematomas. Mori K, et al. **Neurol Res** 1996 Apr;18(2):126–34

MORTALITY

Computed tomographic criteria and survival rate for patients with acute subdural hematoma. Zumkeller M, et al. **Neurosurgery** 1996 Oct;39(4):708–12; discussion 712–3

[Acute traumatic subdural haematomas: study of 110 cases] Figueiredo Neto N de, et al. **Arq Neuropsiquiatr** 1996 Jun; 54(2):238–44 (Eng. Abstr.) **(Por)**

PATHOLOGY

Connective tissue reactions in subdural haematomas: imaging with contrast–enhancement MRI. Spreer J, et al. **Acta Neurochir (Wien)** 1997;139(6):560–5

MR imaging of experimental subdural bleeding. Correlates of brain deformation and tissue water content, and changes in vital physiological parameters. Orlin JR, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):610–20

Supratentorial arachnoid cyst and associated subdural hematoma: neuroradiologic studies. Ochi M, et al. **Eur Radiol** 1996;6(5):640–4

Detection of ruptured cerebral bridging veins at autopsy. Maxeiner H. **Forensic Sci Int** 1997 Sep 19;89(1–2):103–10

Subdural sarcoma associated with chronic subdural hematoma. Report of two cases and review of the literature. Cinalli G, et al. **J Neurosurg** 1997 Mar;86(3):553–7 (12 ref.)

Post–traumatic acute subdural haematoma of the posterior fossa extending toward the cerebello–pontine region. Report of a case. Servadei F, et al. **J Neurosurg Sci** 1995 Sep;39(3):187–90

Interhemispheric chronic subdural hematoma—case report. Minami M, et al. **Neurol Med Chir (Tokyo)** 1997 Feb; 37(2):177–80

Magnetic resonance imaging of sequelae of temporal lobe herniation secondary to traumatic acute subdural hematoma: Kernohan's notch and posterior cerebral artery territory infarctions contralateral to the supratentorial lesion—case report. Namura S, et al. **Neurol Med Chir (Tokyo)** 1997 Jan;37(1):32–5

Ultrastructure of collagen fibers in the outer membrane of recurrent chronic subdural hematoma. Takahashi Y, et al. **Neurol Med Chir (Tokyo)** 1996 Sep;36(9):627–30; discussion 630–1

Experimental acute subdural hematoma in infant piglets. Shaver EG, et al. **Pediatr Neurosurg** 1996 Sep;25(3):123–9

[Magnetic resonance imaging of Kernohan's notch in chronic subdural hematoma] Yamasaki F, et al. **No To Shinkei** 1997 Jun;49(6):563–6 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Prognostic factors in severely head injured adult patients with acute subdural haematoma's. Servadei F. **Acta Neurochir (Wien)** 1997;139(4):279–85 (40 ref.)

Recurrence of spontaneous intracranial hypotension with subdural hematomas. Sato Y, et al. **Cephalalgia** 1997 Feb; 17(1):42–5

Early dynamics of acute extradural and subdural hematomas. Firsching R, et al. **Neurol Res** 1997 Jun;19(3):257–60

Chronic subdural hematomas in adults: prognostic factors. Analysis of 70 cases. Merlicco G, et al. **Neurosurg Rev** 1995;18(4):247–51

Cerebral blood flow and intracranial pressure in chronic subdural hematomas. Tanaka A, et al. **Surg Neurol** 1997 Apr;47(4):346–51

RADIOGRAPHY

The spontaneous reabsorbtion of posttraumatic interhemispheric subdural haematoma. Urculo E, et al. **Acta Neurochir (Wien)** 1996;138(6):776–7

Inter–hemispheric scissure, a rare location for a traumatic subdural hematoma, case report and review of the literature. Rapanà A, et al. **Clin Neurol Neurosurg** 1997 May;99(2):124–9 (65 ref.)

"Hyperacute" subdural hematoma: CT mimic of recurrent episodes of bleeding in the setting of child abuse. Sargent S, et al. **J Forensic Sci** 1996 Mar;41(2):314–6

The computed tomographic attenuation and the age of subdural hematomas. Lee KS, et al. **J Korean Med Sci** 1997 Aug;12(4):353–9

Interhemispheric chronic subdural hematoma—case report. Minami M, et al. **Neurol Med Chir (Tokyo)** 1997 Feb; 37(2):177–80

Early dynamics of acute extradural and subdural hematomas. Firsching R, et al. **Neurol Res** 1997 Jun;19(3):257–60

Disappearing subdural hematomas in children. Duhaime AC, et al. **Pediatr Neurosurg** 1996 Sep;25(3):116–22

[Natural course of non–operative cases of acute subdural hematoma: sequential computed tomographic study in the acute and subacute stages] Izumihara A, et al. **No Shinkei Geka** 1997 Apr;25(4):307–14 (21 ref.) (Eng. Abstr.) **(Jpn)**

SURGERY

Operations and re–operations for chronic subdural haematomas during a 25–year period in a well defined population. Mellergård P, et al. **Acta Neurochir (Wien)** 1996;138(6):708–13

A prospective comparison of fibre–optic and fluid–filled single lumen bolt subdural pressure transducers in ventilated neurosurgical patients. Bavetta S, et al. **Br J Neurosurg** 1996 Jun;10(3):279–84

Postoperative subdural empyema caused by Propionibacterium acnes—a report of two cases. Critchley G, et al. **Br J Neurosurg** 1996 Jun;10(3):321–3

Frontal small craniostomy and irrigation for treatment of chronic subdural haematoma. Yoshimoto Y, et al. **Br J Neurosurg** 1997 Apr;11(2):150–1

Preoperative evaluation of a woman with rheumatoid arthritis. Longworth DL, et al. **Cleve Clin J Med** 1997 Mar;64(3):133–5

Subdural haematoma: an evaluation of treatment methods. Bhatty GB. **J Indian Med Assoc** 1996 Jan;94(1):7–10

Huge calcified chronic subdural hematoma in the elderly—report of a case. Loh JK, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):272–6

Treatment of post–traumatic subdural haematoma. Adeloya A. **Natl Med J India** 1997 Jan–Feb;10(1):23–4

Infected subdural effusion associated with resolving subdural hematoma—case report. Aoki N, et al. **Neurol Med Chir (Tokyo)** 1997 Aug;37(8):637–9

Neurosurgical treatment for hydrocephalus, subdural hematomas, and arachnoid cysts in glutaric aciduria type 1 [letter; comment] Martínez–Lage JF. **Neuropediatrics** 1996 Dec;27(6):335–6. Comment on: Neuropediatrics 1996 Jun;27(3):115–23.

Subdural hemorrhage caused by de novo aneurysm complicating extracranial–intracranial bypass surgery: case report. Kohno K, et al. **Neurosurgery** 1996 May; 38(5):1051–5 (17 ref.)

Arachnoid cysts associated with subdural hematomas and hygromas: analysis of 16 cases, long–term follow–up, and review of the literature. Parsch CS, et al. **Neurosurgery** 1997 Mar;40(3):483–90 (66 ref.)

Management and outcomes of posterior fossa subdural hematomas in neonates. Perrin RG, et al. **Neurosurgery** 1997 Jun;40(6):1190–9; discussion 1199–200

Chronic subdural hematoma: surgical treatment and outcome in 104 patients. Ernestus RI, et al. **Surg Neurol** 1997 Sep; 48(3):220–5

Subdural–peritoneal shunt: treatment for bilateral chronic subdural hematoma. Misra M, et al. **Surg Neurol** 1996 Oct; 46(4):378–83

Acute subdural hematoma associated with nontraumatic aneurysm rupture. Meyer F, et al. **Zentralbl Neurochir** 1997; 58(2):66–70 (31 ref.)

[Treatment outcome in patients with chronic subdural hematoma with reference to age and concurrent internal diseases] Zumkeller M, et al. **Wien Med Wochenschr** 1997; 147(3):55–62 (Eng. Abstr.) **(Ger)**

[Subacute subdural hematoma: report of 3 cases] Nomura S, et al. **Nippon Geka Hokan** 1996 Jan 1;65(1):30–5 (Eng. Abstr.) **(Jpn)**

[A ruptured aneurysm of the distal posterior inferior cerebellar artery associated with acute subdural hematoma of the posterior fossa: a case report] Miyagi A, et al. **No Shinkei Geka** 1997 Jun;25(6):537–41 (Eng. Abstr.) **(Jpn)**

[Successful treatment of subdural hematoma with operation in a patient with acute promyelocytic leukemia] Okubo C, et al. **Rinsho Ketsueki** 1997 Jun;38(6):539–43 (Eng. Abstr.) **(Jpn)**

[Direct effects of the intrathecal administration of normal saline for the brain expansion after the removal of subdural hematoma] Zderkiewicz E, et al. **Neurol Neurochir Pol** 1996 May–Jun;30(3):457–65 (Eng. Abstr.) **(Pol)**

[Chronic subdural hematoma: analysis of 35 cases] Araújo JF, et al. **Arq Neuropsiquiatr** 1996 Mar;54(1):71–4 (Eng. Abstr.) **(Por)**

[The principles and late results of the surgical treatment of chronic subdural hematoma in nursing infants] Brodskiĭ IuS, et al. **Klin Khir** 1994;(12):13–5 (Eng. Abstr.) **(Rus)**

[A new method of surgical intervention: endoscopic removal of subdural hematoma using microsurgical technique and video system] Danchin AG, et al. **Klin Khir** 1996;(5):14–6 **(Rus)**

THERAPY

Altered mental status in an anticoagulated patient [clinical conference] Nadel ES, et al. **J Emerg Med** 1997 Jan–Feb; 15(1):95–8

Subdural hematoma. de Almeida GM, et al. **Surg Neurol** 1997 Jan;47(1):2–5

HEMATOMETRA

COMPLICATIONS

Hematometra and ruptured hematosalpinx with ipsilateral renal agenesis presenting as diffuse peritonitis: a case report [letter] Kinjo K, et al. **Intensive Care Med** 1997 Mar; 23(3):354

HEMATOPOIESIS

10th Symposium on Molecular Biology of Hematopoiesis and Treatment of Leukemias and Lymphomas. Hamburg, Germany July 2–6, 1997. Abstracts. **Acta Haematol** 1997; 98 Suppl 1:1–127

Adhesive interactions in hemopoiesis. Wilson JG. **Acta Haematol** 1997;97(1–2):6–12 (97 ref.)

Functional aspects of apoptosis in hematopoiesis and consequences of failure. McKenna SL, et al. **Adv Cancer Res** 1997;71:121–64 (284 ref.)

Coexpression of flt–3 ligand/flt–3 and SCF/c–kit signal transduction system in bile–duct–ligated SI and W mice. Omori M, et al. **Am J Pathol** 1997 Apr;150(4):1179–87

Interleukin–6 and megakaryocytopoiesis: an update. Baatout S. **Ann Hematol** 1996 Oct;73(4):157–62 (90 ref.)

Interleukin–12–induced interferon–gamma inhibits hematopoiesis in vivo in mice. Quesniaux VF, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:189–95

Choroidal hematopoiesis in an adult [letter] Sharpe RW, et al. **Arch Ophthalmol** 1996 Nov;114(11):1421–2

Expression of G1–phase cell cycle genes during hematopoietic lineage. Della Ragione F, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):73–6

Delay of radiation–induced decline and recovery of hematopoiesis following treatment with anti–HLA–DR antibody. Deeg HJ, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):105–11

Infection of human marrow stroma by human immunodeficiency virus–1 (HIV–1) is both required and sufficient for HIV–1–induced hematopoietic suppression in vitro: demonstration by gene modification of primary human stroma. Bahner I, et al. **Blood** 1997 Sep 1; 90(5):1787–98

Granulocytic differentiation of normal hematopoietic precursor cells induced by transcription factor PU.1 correlates with negative regulation of the c–myb promoter. Bellon T, et al. **Blood** 1997 Sep 1;90(5):1828–39

Kinetic evidence of the regeneration of multilineage hematopoiesis from primitive cells in normal human bone marrow transplanted into immunodeficient mice. Cashman JD, et al. **Blood** 1997 Jun 15;89(12):4307–16

Lineage– and stage–specific expression of runt box polypeptides in primitive and definitive hematopoiesis. Corsetti MT, et al. **Blood** 1997 Apr 1;89(7):2359–68

FLT3 ligand preserves the ability of human CD34+ progenitors to sustain long–term hematopoiesis in immune–deficient mice after ex vivo retroviral–mediated transduction. Dao MA, et al. **Blood** 1997 Jan 15; 89(2):446–56

Long–term maintenance of hematopoiesis in irradiated mice by retrovirally transduced peripheral blood stem cells. Drize N, et al. **Blood** 1997 Mar 1;89(5):1811–7

Local clonal analysis of the hematopoietic system shows that multiple small short–living clones maintain life–long hematopoiesis in reconstituted mice. Drize NJ, et al. **Blood** 1996 Oct 15;88(8):2927–38

Short– and long–term multilineage repopulating hematopoietic stem cells in late fetal and newborn mice: models for human umbilical cord blood. Harrison DE, et al. **Blood** 1997 Jul 1;90(1):174–81

Increased recruitment of hematopoietic progenitor cells underlies the ex vivo expansion potential of FLT3 ligand. Haylock DN, et al. **Blood** 1997 Sep 15;90(6):2260–72

Clonality analysis of hematopoiesis in essential thrombocythemia: advantages of studying T lymphocytes and platelets. el–Kassar N, et al. **Blood** 1997 Jan 1; 89(1):128–34

Donor leukocyte infusion for leukemic relapse after allogeneic marrow transplantation: lack of residual donor hematopoiesis predicts aplasia. Keil F, et al. **Blood** 1997 May 1;89(9):3113–7

Long–term malignant hematopoiesis in human acute leukemia bone marrow biopsies implanted in severe combined immunodeficiency mice. Legrand F, et al. **Blood** 1997 Sep 1;90(5):2001–9

Impaired hematopoiesis in paroxysmal nocturnal hemoglobinuria/aplastic anemia is not associated with a

selective proliferative defect in the glycosylphosphatidylinositol-anchored protein-deficient clone. Maciejewski JP, et al. **Blood** 1997 Feb 15; 89(4):1173-81

Adult mice with targeted mutation of the interleukin-11 receptor (IL11Ra) display normal hematopoiesis. Nandurkar HH, et al. **Blood** 1997 Sep 15;90(6):2148-59

Hematopoiesis in mice lacking the entire granulocyte-macrophage colony-stimulating factor/interleukin-3/interleukin-5 functions. Nishinakamura R, et al. **Blood** 1996 Oct 1;88(7):2458-64

Primitive long-term culture initiating cells (LTC-ICs) in granulocyte colony-stimulating factor mobilized peripheral blood progenitor cells have similar potential for ex vivo expansion as primitive LTC-ICs in steady state bone marrow. Prosper F, et al. **Blood** 1997 Jun 1;89(11):3991-7

CD44 regulates hematopoietic progenitor distribution, granuloma formation, and tumorigenicity. Schmits R, et al. **Blood** 1997 Sep 15;90(6):2217-33

Improved reconstitution of CD4 T cells and B cells but worsened reconstitution of serum IgG levels after allogeneic transplantation of blood stem cells instead of marrow [letter; comment] Storek J, et al. **Blood** 1997 May 15;89(10):3891-3. Comment on: Blood 1996 Oct 1;88(7):2775-9.

flt3 ligand in cooperation with transforming growth factor-beta1 potentiates in vitro development of Langerhans-type dendritic cells and allows single-cell dendritic cell cluster formation under serum-free conditions. Strobl H, et al. **Blood** 1997 Aug 15; 90(4):1425-34

Hepatocyte growth factor is constitutively produced by human bone marrow stromal cells and indirectly promotes hematopoiesis. Takai K, et al. **Blood** 1997 Mar 1; 89(5):1560-5

CD34 expression patterns during early mouse development are related to modes of blood vessel formation and reveal additional sites of hematopoiesis. Wood HB, et al. **Blood** 1997 Sep 15;90(6):2300-11

Hematopoietic potential of IL-2-cultured peripheral blood stem cells from breast cancer patients. Areman EM, et al. **Bone Marrow Transplant** 1996 Sep;18(3):521-5

Successful hematopoietic reconstitution by transplantation of umbilical cord blood cells in a transfusion-dependent child with Diamond-Blackfan anemia. Bonno M, et al. **Bone Marrow Transplant** 1997 Jan;19(1):83-5

Pre-emptive ganciclovir treatment can play a role in restoration of hematopoiesis after allogeneic bone marrow transplantation. Choi JH, et al. **Bone Marrow Transplant** 1997 Jan;19(2):187-90

Erythroid burst-forming units (BFU-E) predict hematopoietic recovery after peripheral blood progenitor cell transplantation in patients with advanced breast cancer. Cooper BW, et al. **Bone Marrow Transplant** 1997 Jun; 19(11):1089-94

Peripheral blood stem cell support does not accelerate haemopoietic recovery from miniBEAM chemotherapy. Fielding AK, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):507-11

Fibroblasts retrovirally transfected with the human IL-3 gene initiate and sustain multilineage human hematopoiesis in SCID mice: comparison of CD34-enriched vs CD34-enriched and in vitro expanded grafts. Goan SR, et al. **Bone Marrow Transplant** 1996 Sep;18(3):513-9

Proliferation of macrophage-lineage cells in the bone marrow, severe thymic atrophy, and extramedullary hematopoiesis of possible donor origin in an autopsy case of post-transplantation graft-versus-host disease. Kazama T, et al. **Bone Marrow Transplant** 1996 Aug;18(2):437-41

Sequential analysis of early hematopoietic reconstitution following allogeneic bone marrow transplantation with fluorescence in situ hybridization (FISH). Lapointe C, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1143-8

Hematopoietic and immune recovery after transplantation of cord blood progenitor cells in children. Locatelli F, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1095-101

Factors affecting engraftment and hematopoietic recovery after unpurged autografting in acute leukemia. Mehta J, et al. **Bone Marrow Transplant** 1996 Aug;18(2):319-24

Generation of normal lymphocyte populations following transplantation of adenosine-deaminase-deficient fetal liver cells. Migchielsen AA, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1137-43

Functional activity of CD44 isoforms in haemopoiesis of the rat. Khaldoyanidi S, et al. **Br J Haematol** 1997 Jan; 96(1):31-45

The dendritic cell lineage in haemopoiesis. Reid CD. **Br J Haematol** 1997 Feb;96(2):217-23 (55 ref.)

In vivo haemoprotective activity of tetrapeptide AcSDKP combined with granulocyte-colony stimulating factor following sublethal irradiation. Watanabe T, et al. **Br J Haematol** 1996 Sep;94(4):619-27

Hematopoiesis research in aplastic anaemia induced by accidental protracted radiation. Socié G, et al. **C R Acad Sci III** 1996 Aug;319(8):711-6

Immunodeficiency and chronic myelogenous leukemia-like syndrome in mice with a targeted mutation of the ICSBP gene. Holtschke T, et al. **Cell** 1996 Oct 18;87(2):307-17

Stem cell renewal and determination during clonal expansion in normal and leukaemic haemopoiesis. McCulloch EA. **Cell Prolif** 1993 Sep;26(5):399-425 (240 ref.)

Selective stimulation of granulopoiesis in vitro by established bone marrow stromal cells. Iguchi A, et al. **Cell Struct Funct** 1997 Jun;22(3):357-64

Test tube data and in vivo realities. **Ciba Found Symp** 1997; 204:88-93 (5 ref.)

Selection versus instruction? **Ciba Found Symp** 1997;204:33-9 (4 ref.)

How do stem cells decide what to do? Cross MA, et al. **Ciba Found Symp** 1997;204:3-14; discussion 14-8 (34 ref.)

CSF-deficient mice--what have they taught us? Lieschke GJ. **Ciba Found Symp** 1997;204:60-74; discussion 74-7 (41 ref.)

Gene regulatory mechanisms operative on hematopoietic cells: proliferation, differentiation, and neoplasia. Calabretta B, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1-2):117-24 (36 ref.)

Development of the hematopoietic system. Orkin SH. **Curr Opin Genet Dev** 1996 Oct;6(5):597-602 (44 ref.)

Mechanism of action and clinical trials of Mpl ligand. Sheridan WP, et al. **Curr Opin Hematol** 1997 Sep;4(5):312-6 (35 ref.)

Extramedullary haematopoiesis in hereditary spherocytosis simulating mediastinal tumour [letter] Reman O, et al. **Eur J Haematol** 1997 Feb;58(2):124-6

Early transplantation to a normal microenvironment prevents the development of Steel hematopoietic stem cell defects. Barker JE. **Exp Hematol** 1997 Jun;25(6):542-7

The MS-5 murine stromal cell line and hematopoietic growth factors synergize to support the megakaryocytic differentiation of embryonic stem cells. Berthier R, et al. **Exp Hematol** 1997 Jun;25(6):481-90

"Stem cell candidates" purified by liquid culture in the presence of Steel factor, IL-3, and 5FU are strictly stroma-dependent and have myeloid, lymphoid, and megakaryocytic potential. Bertolini F, et al. **Exp Hematol** 1997 Apr;25(4):350-6

PAF and hematopoiesis. VIII. Biosynthesis and metabolism of PAF by human bone marrow stromal cells. Denizot Y, et al. **Exp Hematol** 1996 Sep;24(11):1327-32

Thrombopoietin: the primary regulator of megakaryocytopoiesis and thrombopoiesis. Eaton DL, et al. **Exp Hematol** 1997 Jan;25(1):1-7 (74 ref.)

Hematopoietic precursor cell exhaustion is a cause of proliferative defect in primitive hematopoietic stem cells (PHSC) after chemotherapy. Gardner RV, et al. **Exp Hematol** 1997 Jun;25(6):495-501

Macrophages from motheaten and viable motheaten mutant mice show increased proliferative responses to GM-CSF: detection of potential HCP substrates in GM-CSF signal transduction. Jiao H, et al. **Exp Hematol** 1997 Jul; 25(7):592-600

Regulation of CD34 expression in differentiating M1 cells. Krause DS, et al. **Exp Hematol** 1997 Sep;25(10):1051-61

Nontransformed colony-derived stromal cell lines from normal human marrows. III. The maintenance of hematopoiesis from CD34+ cell populations. Li J, et al. **Exp Hematol** 1997 Jul;25(7):582-91

Human immunoglobulin preparations suppress the occurrence of Epstein-Barr virus-associated lymphoproliferation. Nadal D, et al. **Exp Hematol** 1997 Mar;25(3):223-31

Loss of flk-2/flt3 expression during commitment of multipotent mouse hematopoietic progenitor cells to the mast cell lineage. Pharr PN, et al. **Exp Hematol** 1997 Jul; 25(7):620-8

Mouse bone marrow stromal cell line MC3T3-G2/PA6 with hematopoietic-supporting activity expresses high levels of stem cell antigen Sca-1. Satoh M, et al. **Exp Hematol** 1997 Aug;25(9):972-9

Destruction of hematopoietic microenvironment by cytotoxic T cells. Takashita E, et al. **Exp Hematol** 1997 Sep; 25(10):1034-41

Specific binding of interferon-gamma to high affinity receptors on human erythroid colony-forming cells. Taniguchi S, et al. **Exp Hematol** 1997 Mar;25(3):193-8

Sequential treatment with rmIL-3 or simultaneous treatment with rmIL-3 or rhIL-11 with thrombopoietin (TPO) fails to enhance in vivo neonatal rat thrombocytopoiesis. van de Ven C, et al. **Exp Hematol** 1997 Aug;25(9):1005-12

Alternatives to stem cell renewal from a developmental viewpoint. Van Zant G, et al. **Exp Hematol** 1997 Mar; 25(3):187-92

Early histogenesis in human embryonic liver. Moussa I. **Folia Med (Plovdiv)** 1996;38(3-4):21-7

Role of glutathione metabolism and apoptosis in the regression of liver hemopoiesis. Yamamasu S, et al. **Free Radic Biol Med** 1997;23(1):100-9

Effects of macrophage- and granulocyte-colony stimulating factors on thymidylate synthase and thymidine kinase activity in rat hematopoietic cells. Kudo H, et al. **Haematologica** 1997 Mar-Apr;82(2):187-8

The hemopoietic system: a phylogenetic approach. Galíndez EJ, et al. **Histol Histopathol** 1997 Jul;12(3):823-6 (48 ref.)

Failure of lymphopoiesis after adoptive transfer of NF-kappaB-deficient fetal liver cells. Horwitz BH, et al. **Immunity** 1997 Jun;6(6):765-72

Overexpression of HOXB3 in hematopoietic cells causes defective lymphoid development and progressive myeloproliferation. Sauvageau G, et al. **Immunity** 1997 Jan; 6(1):13-22

Eosinophils negatively regulate eosinophilopoiesis by decreasing IL-5 levels. Enokihara H, et al. **Int Arch Allergy Immunol** 1996;111 Suppl 1:2-4

Stage-specific alterations in murine B lymphopoiesis with age. Stephan RP, et al. **Int Immunol** 1996 Apr;8(4):509-18

Hematological changes in anorexia nervosa are correlated with total body fat mass depletion. Lambert M, et al. **Int J Eat Disord** 1997 May;21(4):329-34

Lymphohaematopoietic abnormalities and systemic lymphoproliferative disorder in interleukin-2 receptor gamma chain-deficient mice. Ikebe M, et al. **Int J Exp Pathol** 1997 Jun;78(3):133-48

The human/sheep xenograft model: a large animal model of human hematopoiesis. Zanjani ED, et al. **Int J Hematol** 1996 Apr;63(3):179-92 (88 ref.)

B cell development in mice. Kearney JF, et al. **Int Rev Immunol** 1997;15(3-4):207-41 (168 ref.)

B lymphocyte development in the rabbit. Knight KL, et al. **Int Rev Immunol** 1997;15(3-4):129-63 (108 ref.)

Avian B cell development. Masteller EL, et al. **Int Rev Immunol** 1997;15(3-4):185-206 (82 ref.)

Hematopoiesis and the defect in paroxysmal nocturnal hemoglobinuria [editorial (comment)] Rosse WF. **J Clin Invest** 1997 Sep 1;100(5):953-4. Comment on: J Clin Invest 1997 Sep 1;100(5):1028-36.

Murine embryonic stem cells without pig-a gene activity are competent for hematopoiesis with the PNH phenotype but not for clonal expansion [see comments] Rosti V, et al. **J Clin Invest** 1997 Sep 1;100(5):1028-36. Comment in: J Clin Invest 1997 Sep 1;100(5):953-4.

Factors that influence the collection and engraftment of allogeneic peripheral-blood stem cells in patients with hematologic malignancies. Brown RA, et al. **J Clin Oncol** 1997 Sep;15(9):3067-74

Concomitant and sequential administration of recombinant human granulocyte colony-stimulating factor and recombinant human interleukin-3 to accelerate hematopoietic recovery after autologous bone marrow transplantation for malignant lymphoma. Lemoli RM, et al. **J Clin Oncol** 1996 Nov;14(11):3018-25

Hematopoietic recovery after allogeneic blood stem-cell transplantation compared with bone marrow transplantation in patients with hematologic malignancies. Pavletic ZS, et al. **J Clin Oncol** 1997 Apr;15(4):1608-16

Granulocyte-macrophage colony-stimulating factor/interleukin-3 fusion protein versus granulocyte-macrophage colony-stimulating factor after autologous bone marrow transplantation for non-Hodgkin's lymphoma: results of a randomized double-blind trial. Vose JM, et al. **J Clin Oncol** 1997 Apr; 15(4):1617-23

Involvement of Interleukin (IL) 8 receptor in negative regulation of myeloid progenitor cells in vivo: evidence from mice lacking the murine IL-8 receptor homologue. Broxmeyer HE, et al. **J Exp Med** 1996 Nov 1; 184(5):1825-32

Impaired host defense, hematopoiesis, granulomatous inflammation and type 1-type 2 cytokine balance in mice lacking CC chemokine receptor 1. Gao JL, et al. **J Exp Med** 1997 Jun 2;185(11):1959-68

Altered hematopoiesis, behavior, and sexual function in mu opioid receptor-deficient mice. Tian M, et al. **J Exp Med** 1997 Apr 21;185(8):1517-22

T cell receptor (TCR)-beta gene recombination: dissociation from cell cycle regulation and developmental progression during T cell ontogeny. Tourigny MR, et al. **J Exp Med** 1997 May 5;185(9):1549-56

Impaired bone marrow microenvironment and immune function in T cell protein tyrosine phosphatase-deficient mice. You-Ten KE, et al. **J Exp Med** 1997 Aug 29; 186(5):683-93

The contribution of animal models to the development of treatments for hematologic recovery following myeloablative therapy: a review. Schneidkraut MJ, et al. **J Hematother** 1996 Dec;5(6):631-46 (226 ref.)

Large-scale selection of CD34+ peripheral blood progenitors and expansion of neutrophil precursors for clinical applications. Zimmerman TM, et al. **J Hematother** 1996 Jun;5(3):247-53

Enhanced HIV-1 activity in bone marrow can lead to myelopoietic suppression partially contributed by gag p24. Rameshwar P, et al. **J Immunol** 1996 Nov 1;157(9):4244-50

In vitro T lymphopoiesis: a model system for stem cell gene therapy for AIDS. Rosenzweig M, et al. **J Med Primatol** 1996 Jun;25(3):192-200

Spinal cord compression due to extramedullary haematopoiesis in thalassaemia: a case report and review of the literature [letter] Martina IS, et al. **J Neurol** 1996 Apr;243(4):364-6

Bone marrow failure by cytomegalovirus is associated with an in vivo deficiency in the expression of essential stromal hemopoietin genes. Mayer A, et al. **J Virol** 1997 Jun; 71(6):4589-98

Macrophage inflammatory protein-1 alpha (LD78) expressed in human bone marrow: its role in regulation of hematopoiesis and osteoclast recruitment. Kukita T, et al. **Lab Invest** 1997 Mar;76(3):399-406

Granulocyte colony-stimulating factor receptor at various differentiation stages of normal and leukemic hematopoietic cells. Shinjo K, et al. **Leuk Lymphoma** 1997 Mar; 25(1-2):37-46 (49 ref.)

Perturbation in the ability of bone marrow stroma from patients with acute myeloid leukemia but not chronic myeloid leukemia to support normal early hematopoietic progenitor cells. Sparrow RL, et al. **Leuk Res** 1997 Jan;

21(1):29-36

Comparison of haematological recovery kinetics after myeloablative therapy between sibling allogeneic bone marrow and peripheral blood progenitor cell transplantation in the same adult acute lymphoblastic leukaemia patient [letter] Stockschläder M, et al. **Leuk Res** 1996 Nov-Dec;20(11-12):993-6

JURL-MK1 (c-kit(high)/CD30-/CD40-) and JURL-MK2 (c-kit(low)/CD30+/CD40+) cell lines: 'two-sided' model for investigating leukemic megakaryocytopoiesis. Di Noto R, et al. **Leukemia** 1997 Sep;11(9):1554-64

Multiparameter phenotype mapping of normal and post-chemotherapy B lymphopoiesis in pediatric bone marrow. Dworzak MN, et al. **Leukemia** 1997 Aug; 11(8):1266-73

Cytosine methylation changes during normal hematopoiesis and in acute myeloid leukemia. Lübbert M, et al. **Leukemia** 1997 Mar;11 Suppl 1:S12-8 (46 ref.)

Comparison of the immunoglobulin gene transcripts between immature B lineage acute lymphoblastic leukemia and the normal phenotypic counterparts in the bone marrow. Mori H, et al. **Leukemia** 1997 Aug;11(8):1274-80

Does transmembrane communication through gap junctions enable stem cells to overcome stromal inhibition? Rosendaal M, et al. **Leukemia** 1997 Aug;11(8):1281-9

Analysis of factors controlling primary germ layer formation and early hematopoiesis using embryonic stem cell in vitro differentiation. Wiles MV, et al. **Leukemia** 1997 Apr;11 Suppl 3:454-6

p53 overexpression in myeloid leukemic disorders is associated with increased apoptosis of hematopoietic marrow cells and ineffective hematopoiesis. Orazi A, et al. **Mod Pathol** 1996 Jan;9(1):48-52

A novel transcript encoding an N-terminally truncated AML1/PEBP2 alphaB protein interferes with transactivation and blocks granulocytic differentiation of 32Dcl3 myeloid cells. Zhang YW, et al. **Mol Cell Biol** 1997 Jul;17(7):4133-45

Haematopoietic effects of ACE inhibitors and local bone marrow renin-angiotensin system: An hypothesis [letter; comment] Haznedaroğlu IC. **Nephrol Dial Transplant** 1996 Nov;11(11):2373. Comment on: Nephrol Dial Transplant 1996 Apr;11(4):749-751.

Granulopoiesis in newly diagnosed childhood solid tumors. Liang DC, et al. **Pediatr Hematol Oncol** 1997 Sep-Oct; 14(5):423-31

Development and function of T cells in T cell antigen receptor/CD3 zeta knockout mice reconstituted with Fc epsilon RI gamma. Liu CP, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):616-21

Hematopoietic activity of a stromal cell transmembrane protein containing epidermal growth factor-like repeat motifs. Moore KA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4011-6

Hematopoiesis in the fetal liver is impaired by targeted mutagenesis of a gene encoding a non-DNA binding subunit of the transcription factor, polyomavirus enhancer binding protein 2/core binding factor. Niki M, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5697-702

Absence of fetal liver hematopoiesis in mice deficient in transcriptional coactivator core binding factor beta. Sasaki K, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29; 93(22):12359-63

Absence of granulocyte colony-stimulating factor signaling and neutrophil development in CCAAT enhancer binding protein alpha-deficient mice. Zhang DE, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):569-74

Hematopoiesis and growth factors in elderly cancer patients. Tafuri A, et al. **Rays** 1997 Jan-Mar;22(1 Suppl):37-41

The pineal hormone melatonin in hematology and its potential efficacy in the treatment of thrombocytopenia. Lissoni P, et al. **Recenti Prog Med** 1996 Dec;87(12):582-5

Nitric oxide in human haematopoiesis. Ouaaz F. **Res Immunol** 1995 Nov-Dec;146(9):678-81 (34 ref.)

Human red cells from prenatal stages of hemopoiesis. Lithium flux components. Corchs JL, et al. **Rev Esp Fisiol** 1996 Jun;52(2):77-82

Normal and leukemic human stem cells assayed in SCID mice. Dick JE. **Semin Immunol** 1996 Aug;8(4):197-206 (69 ref.)

Function and signal transduction mediated by the interleukin 3 receptor system in hematopoiesis. Hara T, et al. **Stem Cells** 1996 Nov;14(6):605-18 (99 ref.)

Regulatory roles of the ligand for Flk2/Flt3 tyrosine kinase receptor on human hematopoiesis. Namikawa R, et al. **Stem Cells** 1996 Jul;14(4):388-95 (69 ref.)

The hematopoietic development of dendritic cells: a distinct pathway for myeloid differentiation. Young JW, et al. **Stem Cells** 1996 Jul;14(4):376-87 (77 ref.)

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 May;47(5):408-13

Significance of bone marrow stromal cells in hematopoiesis and hematological disorders. Nagao T. **Tokai J Exp Clin Med** 1995 Jul;20(2):121-30 (83 ref.)

Neonatal bone fragments for the induction of xenograft acceptance: transplantation of xenogeneic hematopoietic stem cells and species-specific microenvironment for hematopoiesis. Murase N, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1201

Induction of mixed hematopoietic chimerism and specific transplantation tolerance to allogeneic and xenogeneic grafts by selective elimination of donor-reactive host cells following nonmyeloablative conditioning. Prigozhina TB, et al. **Transplant Proc** 1997 Sep;29(6):2644-6

Factors controlling haemopoiesis in ovine long-term bone marrow cultures. Marsicano G, et al. **Vet Immunol Immunopathol** 1997 Mar;55(4):291-301

[Hematopoietic growth factors: general presentation] Guillosson JJ. **Ann Pharm Fr** 1996;54(4):145-50 (Eng. Abstr.) **(Fre)**

[Dysmegakaryocytopoiesis and thrombopoiesis in autoimmune thrombocytopenias] Bellucci S. **C R Seances Soc Biol Fil** 1996;190(5-6):541-8 (25 ref.) (Eng. Abstr.) **(Fre)**

[Dysmegakaryocytopoiesis and dysthrombopoiesis in myeloproliferative syndromes] Brière J, et al. **C R Seances Soc Biol Fil** 1996;190(5-6):533-9 (Eng. Abstr.) **(Fre)**

[Bone marrow failure--current progress in pathophysiology] Hotta T. **Rinsho Ketsueki** 1996 Jun;37(6):472-7 (43 ref.) **(Jpn)**

[Thrombopoietin] Mizoguchi H. **Rinsho Ketsueki** 1996 Jun; 37(6):483-7 (13 ref.) **(Jpn)**

[Serum erythropoietin levels and bone marrow hematopoiesis in patients with aplastic anemia] Ogawa T. **Rinsho Ketsueki** 1996 Jul;37(7):604-9 (Eng. Abstr.) **(Jpn)**

[Phlogogenic and hematopoiesis-stimulating activity of liver and lung macrophages during liver regeneration] Pliushch IV, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):494-8 **(Rus)**

["Graft versus leukemia" during mixed chimeric hematopoiesis] Seledtsova GV, et al. **Biull Eksp Biol Med** 1997 May;123(5):562-5 **(Rus)**

[An evaluation of the immunotropic and hemopoietic effects of hyperbaric oxygenation as an experimental pathological model] Pogabalo AV, et al. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):72-5 (Eng. Abstr.) **(Rus)**

[Lymphogranulomatosis: a systems analysis of the age- and sex-related characteristics of hemopoiesis and metabolism] Genkin AA, et al. **Ter Arkh** 1997;69(2):37-45 (Eng. Abstr.) **(Rus)**

[Long-term culture: evidence of the capacity of stroma to sustain hematopoiesis of a second inoculum] López Holgado N, et al. **Sangre (Barc)** 1996 Oct;41(5):345-9 (Eng. Abstr.) **(Spa)**

[Hemopoietic potential of umbilical cord blood stem cells] Querol S, et al. **Sangre (Barc)** 1997 Apr;42(2):105-11 (59 ref.) **(Spa)**

[The use of cryopreserved hemopoietic cells of the human embryonic liver in stable depressions of hematopoiesis in cancer patients] Bilyns'kyi BT, et al. **Lik Sprava** 1996 Oct-Dec;(10-12):77-9 (Eng. Abstr.) **(Ukr)**

DRUG EFFECTS

Effect of blood substitute, recombinant hemoglobin, on in vivo hematopoietic recovery from AZT toxicity. Moqattash S, et al. **Acta Haematol** 1997;98(2):76-82

Effect of granulocyte colony-stimulating factor on granulopoiesis of congenital neutropenic children. Benkö I, et al. **Acta Physiol Hung** 1996;84(3):261-2

Effects of perinatal zidovudine on hematopoiesis: a comparison of effects on progenitors from human fetuses versus mothers. Shah MM, et al. **AIDS** 1996 Sep; 10(11):1239-47

Phase II study of roquinimex in myelodysplastic syndrome. Rosenfeld CS, et al. **Am J Clin Oncol** 1997 Apr; 20(2):189-92

Thrombopoietin: in vitro predictions, in vivo realities. Kaushansky K. **Am J Hematol** 1996 Nov;53(3):188-91 (31 ref.)

The anovulation in female mice resulting from postnatal injections of estrogen is correlated with altered levels of CD8+ lymphocytes. Deshpande RR, et al. **Am J Reprod Immunol** 1997 Aug;38(2):114-20

Blood concentrations of G-CSF and myelopoiesis in patients undergoing aortocoronary bypass surgery. Usui A, et al. **Ann Hematol** 1997 Apr;74(4):169-73

Direct and indirect stimulation of megakaryocytopoiesis by TAN-1511 A, a microbial lipopeptide. Nishi K, et al. **Anticancer Res** 1996 Nov-Dec;16(6B):3695-703

The effect of 1,25-vitamin D3 on maturation of monocytes from HIV-infected patients varies with degree of immunodeficiency. Haug CJ, et al. **APMIS** 1996 Jul-Aug; 104(7-8):539-48

Calcium ionophore (A23187) differential effect on red cells from pre and postnatal haemopoiesis. Corchs JL, et al. **Arch Physiol Biochem** 1996;104(2):148-51

Influences of gender, development, pregnancy and ethanol consumption on the hematotoxicity of inhaled 10 ppm benzene. Corti M, et al. **Arch Toxicol** 1996;70(3-4):209-17

Megakaryocytopoietic activity of a truncated variant of mouse thrombopoietin. Hoshi S, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):823-6

Effects of alpha-galactosylceramides on bone marrow cells in vitro and hematopoiesis in vivo. Motoki K, et al. **Biol Pharm Bull** 1996 Jul;19(7):952-5

Pharmacodynamics and pharmacokinetics of recombinant human granulocyte colony-stimulating factor (rhG-CSF) after administration of a rectal dosage vehicle. Watanabe Y, et al. **Biol Pharm Bull** 1996 Aug;19(8):1059-63

Pharmacodynamic activity (leukopoietic effect) of recombinant human granulocyte colony-stimulating factor (rhG-CSF) after rectal administration in rabbits with leukopenia induced by cyclophosphamide. Watanabe Y, et al. **Biol Pharm Bull** 1996 Aug;19(8):1064-7

Enkephalins in hematopoiesis. Boranic M, et al. **Biomed Pharmacother** 1997;51(1):29-37 (100 ref.)

Biologic and clinical effects of granulocyte colony-stimulating factor in normal individuals. Anderlini P, et al. **Blood** 1996 Oct 15;88(8):2819-25 (76 ref.)

Ability of early acting cytokines to directly promote survival and suppress apoptosis of human primitive CD34+CD38- bone marrow cells with multilineage potential at the single-cell level: key role of thrombopoietin. Borge OJ, et al. **Blood** 1997 Sep 15;90(6):2282-92

Thrombopoietin does not induce lineage-restricted commitment of Mpl-R expressing pluripotent progenitors but permits their complete erythroid and megakaryocytic differentiation. Goncalves F, et al. **Blood** 1997 May 15; 89(10):3544-53

Prevention of thrombocytopenia and neutropenia in a nonhuman primate model of marrow suppressive chemotherapy by combining pegylated recombinant human megakaryocyte growth and development factor and recombinant human granulocyte colony-stimulating factor. Harker LA, et al. **Blood** 1997 Jan 1;89(1):155-65

Isolation and identification of hematopoietic stem cell-stimulating substances from Kampo (Japanese herbal) medicine, Juzen-taiho-to. Hisha H, et al. **Blood** 1997 Aug 1;90(3):1022-30

Hematopoietic potential and retroviral transduction of CD34+ Thy-1+ peripheral blood stem cells from asymptomatic human immunodeficiency virus type-1-infected individuals mobilized with granulocyte colony-stimulating factor. Junker U, et al. **Blood** 1997 Jun 15;89(12):4299-306

Distinctions between CD8+ and CD4+ T-cell regenerative pathways result in prolonged T-cell subset imbalance after intensive chemotherapy. Mackall CL, et al. **Blood** 1997 May 15;89(10):3700-7

Leptin stimulates fetal and adult erythroid and myeloid development. Mikhail AA, et al. **Blood** 1997 Mar 1; 89(5):1507-12

Recombinant methionyl human stem cell factor and filgrastim for peripheral blood progenitor cell mobilization and transplantation in non-Hodgkin's lymphoma patients--results of a phase I/II trial. Moskowitz CH, et al. **Blood** 1997 May 1;89(9):3136-47

Hematopoietic and lymphopoietic responses in human granulocyte-macrophage colony-stimulating factor (GM-CSF) receptor transgenic mice injected with human GM-CSF. Nishijima I, et al. **Blood** 1997 Aug 1;90(3):1031-8

Synergistic effect of FLT-3 ligand on the granulocyte colony-stimulating factor-induced mobilization of hematopoietic stem cells and progenitor cells into blood in mice. Sudo Y, et al. **Blood** 1997 May 1;89(9):3186-91

Circulating immature cell counts on the harvest day predict the yields of CD34+ cells collected after granulocyte colony-stimulating factor plus chemotherapy-induced mobilization of peripheral blood stem cell [letter] Teshima T, et al. **Blood** 1997 Jun 15;89(12):4660-1

Dual action of retinoic acid on human embryonic/fetal hematopoiesis: blockade of primitive progenitor proliferation and shift from multipotent/erythroid/monocytic to granulocytic differentiation program. Tocci A, et al. **Blood** 1996 Oct 15;88(8):2878-88

Suppression of megakaryocyte colony growth by plasma from foals infected with equine infectious anemia virus. Tornquist SJ, et al. **Blood** 1997 Sep 15;90(6):2357-63

Fc gammaRIII-mediated regulation of hematopoiesis in murine bone marrow cells by interleukin-3 and CD95 (Fas/Apo-1). Yoshikawa H, et al. **Blood** 1997 Sep 1; 90(5):1911-9

Serotonin stimulates megakaryocytopoiesis via the 5-HT2 receptor. Yang M, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):127-33

Inhibitors of haemopoiesis and their potential clinical relevance. Parker AN, et al. **Blood Rev** 1995 Dec; 9(4):226-33 (79 ref.)

Granulocyte-macrophage colony-stimulating factor accelerates hematopoietic recovery after autologous bone marrow or peripheral blood progenitor cell transplantation and high-dose chemotherapy for lymphoma. Colombat P, et al. **Bone Marrow Transplant** 1996 Aug;18(2):293-9

Administration of G-CSF can be delayed after transplantation of autologous G-CSF-primed blood stem cells: a randomized study. Faucher C, et al. **Bone Marrow Transplant** 1996 Apr;17(4):533-6

G-CSF stimulation of donor myelopoiesis prolongs survival of relapsed BCR-ABL-positive acute lymphoblastic leukemia after allogeneic marrow transplantation. Keil F, et al. **Bone Marrow Transplant** 1996 Sep;18(3):655-7

Use of hematopoietic growth factors for treatment of aplastic anemia. Kojima S. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S36-8 (24 ref.)

Delayed effects of rhG-CSF mobilization treatment and apheresis on circulating CD34+ and CD34+ Thy-1dim CD38- progenitor cells, and lymphoid subsets in normal stem cell donors for allogeneic transplantation. Körbling M, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1073-9

Combination therapy with G-CSF and erythropoietin after autologous bone marrow transplantation for lymphoid malignancies: a randomized trial. Vannucchi AM, et al. **Bone Marrow Transplant** 1996 Apr;17(4):527-31

The role of cytokines following bone marrow transplantation: indications and controversies. Weinthal JA. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S10-4 (30 ref.)

Haematological toxicity: a marker of adjuvant chemotherapy efficacy in stage II and III breast cancer. Saarto T, et al. **Br J Cancer** 1997;75(2):301-5

In vivo effect of platelet factor 4 (PF4) and tetrapeptide AcSDKP on haemopoiesis of mice treated with 5-fluorouracil. Aidoudi S, et al. **Br J Haematol** 1996 Sep; 94(3):443-8

A cellular model for drug interactions on hematopoiesis: the use of human umbilical cord blood progenitors as a model for the study of drug-related myelosuppression of normal hematopoiesis. Léglise MC, et al. **Cell Biol Toxicol** 1996 Feb;12(1):39-53

The antiproliferative activity of the tetrapeptide Acetyl-N-SerAspLysPro, an inhibitor of haematopoietic stem cell proliferation, is not mediated by a thymosin beta 4-like effect on actin assembly. Cheviron N, et al. **Cell Prolif** 1996 Aug;29(8):437-46

Acidic fibroblast growth factor (FGF1) increases survival and haematopoietic recovery in total body irradiated C3H/HeNCr mice. Ding I, et al. **Cytokine** 1997 Jan; 9(1):59-65

Effect of aluminum on hematopoiesis after intraperitoneal exposure in rats. Chmielnicka J, et al. **Ecotoxicol Environ Saf** 1996 Apr;33(3):201-6

Effects of thrombopoietin (c-mpl ligand) on growth of blast cells from patients with transient abnormal myelopoiesis and acute myeloblastic leukemia. Hirai H, et al. **Eur J Haematol** 1997 Jul;59(1):38-46

Enhanced hematopoiesis in sublethally irradiated mice treated with various quinolones. Shalit I, et al. **Eur J Haematol** 1997 Feb;58(2):92-8

Metabolic basis of benzene toxicity. Ross D. **Eur J Haematol Suppl** 1996;60:111-8 (82 ref.)

Localization of megakaryocytes in normal mice and following administration of platelet antiserum, 5-fluorouracil, or radiostrontium: evidence for the site of platelet production. Davis RE, et al. **Exp Hematol** 1997 Jul;25(7):638-48

Combined effects of interleukin-3 and interleukin-11 on hematopoiesis in irradiated mice. Galmiche MC, et al. **Exp Hematol** 1996 Sep;24(11):1298-306

In vitro synergistic inhibition of human bone marrow hemopoietic progenitor growth by a 3'-azido-3'-deoxy-thymidine, 2',3'-dideoxycytidine combination. Lerza R, et al. **Exp Hematol** 1997 Mar; 25(3):252-5

Norepinephrine protects mice from acute lethal doses of carboplatin. Maestroni GJ, et al. **Exp Hematol** 1997 Jun; 25(6):491-4

Lack of efficacy of thrombopoietin and granulocyte colony-stimulating factor after high dose total-body irradiation and autologous stem cell or bone marrow transplantation in rhesus monkeys. Neelis KJ, et al. **Exp Hematol** 1997 Sep;25(10):1094-103

Simultaneous administration of TPO and G-CSF after cytoreductive treatment of rhesus monkeys prevents thrombocytopenia, accelerates platelet and red cell reconstitution, alleviates neutropenia, and promotes the recovery of immature bone marrow cells. Neelis KJ, et al. **Exp Hematol** 1997 Sep;25(10):1084-93

Effects of recombinant human interleukin-11 (Neumega rhIL-11 growth factor) on megakaryocytopoiesis in human bone marrow. Orazi A, et al. **Exp Hematol** 1996 Sep; 24(11):1289-97

High-dose granulocyte-colony stimulating factor (G-CSF) in vitro induces the growth of high proliferative potential colony forming cells (HPP-CFC) in patients undergoing blood stem cell mobilization. Perez-Oteyza J, et al. **Exp Hematol** 1997 Jun;25(6):516-20

Corticosteroids alter hematopoiesis in vitro by enhancing human monocyte secretion of granulocyte colony-stimulating factor. Rinehart J, et al. **Exp Hematol** 1997 May;25(5):405-12

Recombinant human c-Mpl ligand (thrombopoietin) not only acts on megakaryocyte progenitors, but also on erythroid and multipotential progenitors in vitro. Tanimukai S, et al. **Exp Hematol** 1997 Sep;25(10):1025-33

Granulocyte colony-stimulating factor-primed leukocyte transfusions in candida tropicalis fungemia in neutropenic patients. Di Mario A, et al. **Haematologica** 1997 May-Jun; 82(3):362-3

High doses of recombinant human erythropoietin fail to accelerate platelet reconstitution in allogeneic bone marrow transplantation. Results of a pilot study. Vannucchi AM, et al. **Haematologica** 1997 Jan-Feb;82(1):53-6

Influence of Photofrin on the hematopoietic accessory function of murine peritoneal cells. Hunt DW, et al. **Immunopharmacol Immunotoxicol** 1997 Aug;19(3):349-65

Treatment with 15-deoxyspergualin induces temporal suppression of hemopoiesis and changes thymocyte populations in mice. Mochida-Nishimura K, et al. **Immunopharmacology** 1996 Oct;35(1):65-70

Reduction in the duration of myelotoxicity associated with radioimmunotherapy with infusions of the hemoregulatory peptide, HP5b in mice. Alisauskas RM, et al. **Int J Cancer** 1997 Jan 27;70(3):323-9

Combined modality radioprotection: enhancement of survival and hematopoietic recovery in gamma-irradiated mice by the joint use of liposomal muramyl tripeptide phosphatidylethanolamine (MTP-PE) and indomethacin. Fedoročko P, et al. **Int J Immunopharmacol** 1996 May; 18(5):329-37

Effect of combination interleukin-3 (IL-3) and granulocyte-macrophage colony stimulating factor (GM-CSF) on hematopoiesis administered to retrovirus-infected immunodeficient mice receiving dose-escalation zidovudine (AZT). Gallicchio VS, et al. **Int J Immunopharmacol** 1995 Nov;17(11):865-78

Acceleration of hemopoietic recovery in dogs after extended-field partial-body irradiation by treatment with colony-stimulating factors: rhG-CSF and rhGM-CSF. Nothdurft W, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1145-54

Role of growth factors in hastening hematopoietic recovery following HLA matched sibling allogeneic bone marrow transplantation [published erratum appears in J Assoc Physicians India 1995 Oct;43(10):711] Parikh PM, et al. **J Assoc Physicians India** 1995 Jun;43(6):404-5

Granulocyte-macrophage colony-stimulating factor with induction treatment of acute myelogenous leukemia [letter; comment] Adkins DR, et al. **J Clin Oncol** 1997 Feb; 15(2):862-3. Comment on: J Clin Oncol 1996 Jul;14(7):2150-9.

Increasing 4'-epidoxorubicin and fixed ifosfamide doses plus granulocyte-macrophage colony-stimulating factor in advanced soft tissue sarcomas: a pilot study. Frustaci S, et al. **J Clin Oncol** 1997 Apr;15(4):1418-26

Comparative study of dose escalation versus interval reduction to obtain dose-intensification of epirubicin and cyclophosphamide with granulocyte colony-stimulating factor in advanced breast cancer. Lalisang RI, et al. **J Clin Oncol** 1997 Apr;15(4):1367-76

Role of a second transplant in the management of poor-prognosis lymphomas: a report from the European Blood and Bone Marrow Registry. Vandenberghe E, et al. **J Clin Oncol** 1997 Apr;15(4):1595-600

A preliminary study on the radioprotection of mouse hematopoiesis by dang-gui-shao-yao-san. Hsu HY, et al. **J Ethnopharmacol** 1996 Dec;55(1):43-8

STAT5 involvement in the differentiation response of primary chicken myeloid progenitor cells to chicken myelomonocytic growth factor. Woldman I, et al. **J Immunol** 1997 Jul 15;159(2):877-86

Secondary cytokines interact in sequence with interleukin-1alpha (IL-1alpha) with or without macrophage colony-stimulating factor (M-CSF) to further accelerate granulopoietic recovery in myelosuppressed animals. Kovacs CJ, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):453-60

Immunomodulatory and hematopoietic effects of recombinant human interleukin-6 in patients with advanced renal cell cancer. Schuler M, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):903-10

Thrombospondin, a negative modulator of megakaryocytopoiesis. Chen YZ, et al. **J Lab Clin Med** 1997 Feb;129(2):231-8

Expression of the activated (Y501-F501) hck tyrosine kinase in 32Dcl3 myeloid cells prolongs survival in the absence of IL-3 and blocks granulocytic differentiation in response to G-CSF. English BK. **J Leukoc Biol** 1996 Nov; 60(5):667-73

PAF and haematopoiesis: IX. Platelet-activating factor increases DNA synthesis in human bone marrow cells. Denizot Y, et al. **J Lipid Mediat Cell Signal** 1996 Dec; 15(1):1-4

Effects of lipidic mediators on the growth of human myeloid and erythroid marrow progenitors. Dupuis F, et al. **J Lipid Mediat Cell Signal** 1997 Jul;16(3):117-25 (33 ref.)

Structure-activity relationships of novel hematoregulatory peptides. Bhatnagar PK, et al. **J Med Chem** 1996 Sep 13; 39(19):3814-9

Design of low molecular weight hematoregulatory agents from the structure-activity relationship of a dimeric pentapeptide. Cuthbertson AS, et al. **J Med Chem** 1997 Aug 29;40(18):2876-82

New molecule under study: Flt3 ligand may mobilize dendritic cells [news] McBride G. **J Natl Cancer Inst** 1997 Sep 3;89(17):1257

Trilineage hematopoietic toxicity associated with valproic acid therapy. Bottom KS, et al. **J Pediatr Hematol Oncol** 1997 Jan-Feb;19(1):73-6

Lecithinization of IL-6 enhances its thrombopoietic activity in mice. Igarashi R, et al. **J Pharm Pharmacol** 1997 Jan; 49(1):113-8

Effect of a single dose of ethanol on granulopoiesis in female rats: relationship to phase of estrous cycle. Stojanović N, et al. **J Stud Alcohol** 1996 Jul;57(4):344-8

Mobilization of peripheral blood progenitor cells following CHOP treatment combined with delayed granulocyte colony-stimulating factor administration in patients with non-Hodgkin's lymphoma. Takano H, et al. **Leuk Lymphoma** 1996 May;21(5-6):473-8

GATA factors and the origins of adult and embryonic blood in Xenopus: responses to retinoic acid. Bertwistle D, et al. **Mech Dev** 1996 Jul;57(2):199-214

Stem cell factor (SCF) synergizes with megakaryocyte colony stimulating activity in post-irradiated aplastic plasma in stimulating human megakaryocytopoiesis. Deutsch VR, et al. **Med Oncol** 1996 Mar;13(1):31-42

Characterization of the growth factor activity of amniotic fluid on cells from hematopoietic and lymphoid organs of different life stages. Heidari Z, et al. **Microbiol Immunol** 1996;40(8):583-9

Dose intensity phase I/II trial with carboplatin, ifosfamide, etoposide and vincristine combined with filgrastim in patients with small-cell lung cancer. Hanauske AR, et al. **Oncology** 1997 Sep-Oct;54(5):363-70

Intensive chemotherapy plus recombinant human granulocyte-colony stimulating factor support for distant metastatic nasopharyngeal carcinoma. A preliminary report. Wang CH, et al. **Oncology** 1997 Jan-Feb;54(1):34-7

Modulation of haemopoietic radiation response of mice by diclofenac in fractionated treatment. Hofer M, et al. **Physiol Res** 1996;45(3):213-20

Avian hematopoiesis in response to avian cytokines. Nicolas-Bolnet C, et al. **Poult Sci** 1995 Dec;74(12):1970-6

Zinc porphyrins: potent inhibitors of hematopoieses in animal and human bone marrow. Lutton JD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1432-6

IL12, a direct stimulator and indirect inhibitor of haematopoiesis. Jacobsen SE. **Res Immunol** 1995 Sep-Oct; 146(7-8):506-14 (34 ref.)

The effect of recombinant human erythropoietin on haematopoiesis in patients undergoing haemodialysis. Swanepoel C, et al. **S Afr Med J** 1996 Aug;86(8):952-5

Recombinant human ligand for MPL, megakaryocyte growth and development factor (MGDF), stimulates thrombopoiesis in vivo in normal and myelosuppressed baboons. Andrews RG, et al. **Stem Cells** 1996 Nov; 14(6):661-77

Differential effect of erythropoietin and GM-CSF on megakaryocytopoiesis from primitive bone marrow cells in serum-free conditions. Cardier JE, et al. **Stem Cells** 1997; 15(4):286-90

In vivo effects of pegylated recombinant human megakaryocyte growth and development factor on hematopoiesis in normal mice. Kabaya K, et al. **Stem Cells** 1996 Nov;14(6):651-60

FLT3/FLK-2 (STK-1) Ligand does not stimulate human megakaryopoiesis in vitro. Ratajczak MZ, et al. **Stem Cells** 1996 Jan;14(1):146-50

Thrombopoietin-stimulated ex vivo expansion of human bone marrow megakaryocytes. Schattner M, et al. **Stem Cells** 1996 Mar;14(2):207-14

Comparative effects of insulin-like growth factor II (IGF-II) and IGF-II mutants specific for IGF-II/CIM6-P or IGF-I receptors on in vitro hematopoiesis. Schwartz GN, et al. **Stem Cells** 1996 May;14(3):337-50

Inhibition of enriched stem cells in vivo and in vitro by the hemoregulatory peptide SK&F108636. Veiby OP, et al. **Stem Cells** 1996 Mar;14(2):215-24

Acute hematopoietic toxicity of aniline in rats. Khan MF, et al. **Toxicol Lett** 1997 Jun 16;92(1):31-7

Recombinant human interleukin-3 induces extramedullary hematopoiesis at subcutaneous injection sites in cynomolgus monkeys. Khan KN, et al. **Toxicol Pathol** 1996 Jul-Aug; 24(4):391-7

Effects of rapamycin after syngeneic bone marrow transplantation in irradiated mice. Quesniaux V, et al. **Transplant Proc** 1996 Dec;28(6):3065-71

Hematopoietic effects and clinical application of granulopoietic growth factors. Höglund M. **Ups J Med Sci** 1996;101(2):121-48 (232 ref.)

Romurtide, a synthetic muramyl dipeptide derivative, promotes megakaryocytopoiesis through stimulation of cytokine production in nonhuman primates with myelosuppression. Namba K, et al. **Vaccine** 1997 Mar; 15(4):405-13

Thrombopoietin and platelet development. Kaushansky K. **West J Med** 1996 Mar;164(3):209-11 (50 ref.)

[The effect of erythropoietin on megakaryocytopoiesis depressed by dialysable substances in experimental animals] Zorcheva R, et al. **Eksp Med Morfol** 1994;32(3-4):49-56 (Eng. Abstr.) **(Bul)**

[Will transfer of cytostatic drug resistance genes increase hematopoiesis resistance in the treatment of malignant tumors?] Jelínek J, et al. **Cas Lek Cesk** 1997 Jan 8; 136(1):22-6 (Eng. Abstr.) **(Cze)**

[High-dose chemotherapy and peripheral hemtopoietic cells (PBPC) in solid tumors] Rosti G, et al. **Tumori** 1996 Mar-Apr;82(2 Suppl):S19-22 (27 ref.) (Eng. Abstr.) **(Ita)**

[Long-term hematopoietic reconstitution after myeloablative antitumor therapy and circulating hematopoietic stem cell transplantation] Siena S, et al. **Tumori** 1996 Mar-Apr;82(2 Suppl):S23-7 (Eng. Abstr.) **(Ita)**

[Effect of the inhibitors of 3-hydroxy-3-methylglutaryl coenzyme-A reductase, pravastatin and simvastatin, on colony formation by hematopoietic progenitor cells] Kunitama M, et al. **Rinsho Ketsueki** 1996 Nov; 37(11):1314-7 (Eng. Abstr.) **(Jpn)**

[Mechanisms of hemostimulating effect of glyciram] Zhdanov VV, et al. **Biull Eksp Biol Med** 1997 May;123(5):555-9 **(Rus)**

[The role of binding activity of hematopoietic microenvironment cells in the recovery of various hematopoietic stems inhibited by cytostatics] Zhdanov VV, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):490-4 **(Rus)**

[The blood-stimulating properties of lysine baicalinate] Agafonov VI, et al. **Eksp Klin Farmakol** 1996 Sep-Oct; 59(5):36-9 (Eng. Abstr.) **(Rus)**

[The nature of hematopoiesis in animals with experimentally

depressed immune system: natural and bifidumbacterin-induced recovery] Fedorova IM, et al. **Vestn Ross Akad Med Nauk** 1997;(3):40-3 (Eng. Abstr.) **(Rus)**

[Hemopoietic stem cell transplantation in lymphogranulomatosis] Uss AL, et al. **Vopr Onkol** 1997; 43(2):188-91 (Eng. Abstr.) **(Rus)**

GENETICS

Haematopoietic cytokines and increased megakaryocytic proliferation in chromosome 5q deletion [letter; comment] Haznedaroğlu IC, et al. **Acta Haematol** 1997;97(4):244. Comment on: Acta Haematol 1996;95(2):122-8.

Genetics, phenotype, and natural history of autosomal dominant cyclic hematopoiesis. Palmer SE, et al. **Am J Med Genet** 1996 Dec 30;66(4):413-22

Genetic analysis of tyrosine kinase function in B cell development. Satterthwaite A, et al. **Annu Rev Immunol** 1996;14:131-54 (167 ref.)

A role for the Wnt gene family in hematopoiesis: expansion of multilineage progenitor cells. Austin TW, et al. **Blood** 1997 May 15;89(10):3624-35

The hemoglobin-deficit mouse: analysis of phenotype and hematopoiesis in the transplant model. Bloom ML, et al. **Blood** 1997 Sep 1;90(5):2062-7

Hematopoietic-specific genes are not induced during in vitro differentiation of scl-null embryonic stem cells. Elefanty AG, et al. **Blood** 1997 Aug 15;90(4):1435-47

Altered myeloid development and acute leukemia in transgenic mice expressing PML-RAR alpha under control of cathepsin G regulatory sequences. Grisolano JL, et al. **Blood** 1997 Jan 15;89(2):376-87

Defects in yolk sac hematopoiesis in Mll-null embryos. Hess JL, et al. **Blood** 1997 Sep 1;90(5):1799-806

Lineage-specific regulation of hematopoiesis by HOX-B8 (HOX-2.4): inhibition of granulocytic differentiation and potentiation of monocytic differentiation. Krishnaraju K, et al. **Blood** 1997 Sep 1;90(5):1840-9

Mice bearing a targeted interruption of the homeobox gene HOXA9 have defects in myeloid, erythroid, and lymphoid hematopoiesis. Lawrence HJ, et al. **Blood** 1997 Mar 15; 89(6):1922-30

Altered erythrocytes and a leaky block in B-cell development in CD24/HSA-deficient mice. Nielsen PJ, et al. **Blood** 1997 Feb 1;89(3):1058-67

Expression of Wiskott-Aldrich syndrome protein (WASP) gene during hematopoietic differentiation. Parolini O, et al. **Blood** 1997 Jul 1;90(1):70-5

Retroviral-mediated transfer of the green fluorescent protein gene into murine hematopoietic cells facilitates scoring and selection of transduced progenitors in vitro and identification of genetically modified cells in vivo. Persons DA, et al. **Blood** 1997 Sep 1;90(5):1777-86

Mutations in the murine fitness 1 gene result in defective hematopoiesis. Potter MD, et al. **Blood** 1997 Sep 1; 90(5):1850-7

Genetic influences determining progenitor cell mobilization and leukocytosis induced by granulocyte colony-stimulating factor. Roberts AW, et al. **Blood** 1997 Apr 15;89(8):2736-44

Bone marrow and thymus expression of interferon-gamma results in severe B-cell lineage reduction, T-cell lineage alterations, and hematopoietic progenitor deficiencies. Young HA, et al. **Blood** 1997 Jan 15;89(2):583-95

Mixed hematopoietic chimerism after allogeneic bone marrow transplantation: the impact of quantitative PCR analysis for prediction of relapse and graft rejection in children. Bader P, et al. **Bone Marrow Transplant** 1997 Apr; 19(7):697-702

Clonal haemopoiesis in normal elderly women: implications for the myeloproliferative disorders and myelodysplastic syndromes. Champion KM, et al. **Br J Haematol** 1997 Jun; 97(4):920-6

Failure of embryonic hematopoiesis and lethal hemorrhages in mouse embryos heterozygous for a knocked-in leukemia gene CBFB-MYH11. Castilla LH, et al. **Cell** 1996 Nov 15;87(4):687-96

Characterization of zebrafish mutants with defects in embryonic hematopoiesis. Ransom DG, et al. **Development** 1996 Dec;123:311-9

A molecular aspect of hematopoiesis and endoderm development common to vertebrates and Drosophila. Rehorn KP, et al. **Development** 1996 Dec;122(12):4023-31

Hematopoietic mutations in the zebrafish. Weinstein BM, et al. **Development** 1996 Dec;123:303-9

Targeted disruption of the PU.1 gene results in multiple hematopoietic abnormalities. McKercher SR, et al. **EMBO J** 1996 Oct 15;15(20):5647-58

c-Myb and Ets proteins synergize to overcome transcriptional repression by ZEB. Postigo AA, et al. **EMBO J** 1997 Jul 1;16(13):3924-34

The scl gene product is required for the generation of all hematopoietic lineages in the adult mouse. Robb L, et al. **EMBO J** 1996 Aug 15;15(16):4123-9

The LIM-only protein Lmo2 is a bridging molecule assembling an erythroid, DNA-binding complex which includes the TAL1, E47, GATA-1 and Ldb1/NLI proteins. Wadman IA, et al. **EMBO J** 1997 Jun 2; 16(11):3145-57

Expression of the Wilms' tumor gene (WT1) in normal hemopoiesis. Baird PN, et al. **Exp Hematol** 1997 Apr; 25(4):312-20

Multilineage gene expression precedes commitment in the hemopoietic system. Hu M, et al. **Genes Dev** 1997 Mar 15;11(6):774-85

Promotion of platelet production by hTPO cDNA injection [letter] Zhao JZ, et al. **Haematologica** 1997 May-Jun; 82(3):383

Systemic hematological effects of granulocyte colony-stimulating factor produced by irradiated gene-transfected fibroblasts. Rosenthal FM, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2147-56

Patterns of hemopoietic reconstitution in nonobese diabetic mice: dichotomy of allogeneic resistance versus competitive advantage of disease-resistant marrow. Kaufman CL, et al. **J Immunol** 1997 Mar 1;158(5):2435-42

HNMP-1: a novel hematopoietic and neural membrane protein differentially regulated in neural development and injury. Bolin LM, et al. **J Neurosci** 1997 Jul 15; 17(14):5493-502

Thrombocytemia and abnormal megakaryopoiesis associated with abnormality of chromosome 1p34 in myelodysplastic syndromes. Jondeau K, et al. **Leukemia** 1996 Nov; 10(11):1692-5

Application of differential display in studying developmental processes. Guimarães MJ, et al. **Methods Mol Biol** 1997; 85:175-94

Transcriptional regulation during myelopoiesis. Lenny N, et al. **Mol Biol Rep** 1997 Aug;24(3):157-68 (164 ref.)

Overexpression of HOXA10 in murine hematopoietic cells perturbs both myeloid and lymphoid differentiation and leads to acute myeloid leukemia. Thorsteinsdottir U, et al. **Mol Cell Biol** 1997 Jan;17(1):495-505

Clonal hematopoiesis and acquired thalassemia in common variable immunodeficiency. Belickova M, et al. **Mol Med** 1994 Nov;1(1):56-61

Embryonic lethality and impairment of haematopoiesis in mice heterozygous for an AML1-ETO fusion gene. Yergeau DA, et al. **Nat Genet** 1997 Mar;15(3):303-6

Paroxysmal nocturnal hemoglobinuria: new insights from murine Pig-a-deficient hematopoiesis. Devetten MP, et al. **Proc Assoc Am Physicians** 1997 Mar;109(2):99-110 (68 ref.)

The role of HOX homeobox genes in normal and leukemic hematopoiesis. Lawrence HJ, et al. **Stem Cells** 1996 May; 14(3):281-91 (99 ref.)

[Genetic control of hematopoiesis] Roméo PH. **C R Seances Soc Biol Fil** 1997;191(1):105-11 (12 ref.) (Eng. Abstr.) **(Fre)**

[Amplification of hypervariable genomic regions for establishment of the type of hematopoiesis in hemoblastosis patients after allogeneic bone marrow transplantation] Demidova IA, et al. **Genetika** 1997 Apr;33(4):546-9 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Genetic analysis of tyrosine kinase function in B cell development. Satterthwaite A, et al. **Annu Rev Immunol** 1996;14:131-54 (167 ref.)

Early T lymphocyte progenitors. Shortman K, et al. **Annu Rev Immunol** 1996;14:29-47 (85 ref.)

HLA-DR-mediated signals for hematopoiesis and induction of apoptosis involve but are not limited to a nitric oxide pathway. Lee JW, et al. **Blood** 1997 Jul 1;90(1):217-25

Diverse effects of anti-CD44 antibodies on the stromal cell-mediated support of normal but not leukaemic (CML) haemopoiesis in vitro. Ghaffari S, et al. **Br J Haematol** 1997 Apr;97(1):22-8

Bcl-2 rescues T lymphopoiesis in interleukin-7 receptor-deficient mice. Akashi K, et al. **Cell** 1997 Jun 27; 89(7):1033-41

Vascular cell adhesion molecule-1 expression by hematopoiesis-supporting stromal cells is not essential for lymphoid or myeloid differentiation in vivo or in vitro. Friedrich C, et al. **Eur J Immunol** 1996 Nov;26(11):2773-80

A role for BP-3/BST-1 antigen in early T cell development. Vicari AP, et al. **Int Immunol** 1996 Feb;8(2):183-91

Xenotransplantation of baboon bone marrow cells: a historical review of the protocols as a possible treatment modality for HIV/AIDS. Relf MV. **J Assoc Nurses AIDS Care** 1996 Sep-Oct;7(5):27-35 (38 ref.)

Human fetal liver cells induce colonies in spleen of lethally irradiated mice. Rezzoug F, et al. **J Clin Immunol** 1997 May;17(3):205-11

Patterns of hemopoietic reconstitution in nonobese diabetic mice: dichotomy of allogeneic resistance versus competitive advantage of disease-resistant marrow. Kaufman CL, et al. **J Immunol** 1997 Mar 1;158(5):2435-42

HLA-DR-triggered inhibition of hemopoiesis involves Fas/Fas ligand interactions and is prevented by c-kit ligand. Lee JW, et al. **J Immunol** 1997 Oct 1;159(7):3211-9

Fas system-mediated apoptosis suppresses lymphopoiesis. Yasutomo K, et al. **J Immunol** 1996 Sep 1;157(5):1981-6

Expression of CD34 and other haematopoietic antigens on neuroblastoma cells: consequences for autologous bone marrow and peripheral blood stem cell transplantation. Voigt A, et al. **J Neuroimmunol** 1997 Sep;78(1-2):117-26

Cascade regulation of cytokine production in granulopoiesis. Sugimoto K, et al. **Leukemia** 1997 Apr;11 Suppl 3:464-7

The significance of megakaryocytopoietic cytokines and thrombopoietin in immune thrombocytopenic purpura: a hypothesis [letter] Haznedaroğlu IC, et al. **N Z Med J** 1996 Oct 11;109(1031):389

Expression of bone marrow stromal cell specific antigen during murine development: its expression in embryonic hematopoietic tissues as well as in other developing tissues. Akasaka Y, et al. **Pathol Int** 1996 Apr;46(4):243-52

IL12, a direct stimulator and indirect inhibitor of haematopoiesis. Jacobsen SE. **Res Immunol** 1995 Sep-Oct; 146(7-8):506-14 (34 ref.)

Ontogeny of NK cells and the bone marrow microenvironment: where does IL15 fit in? Puzanov IJ, et al. **Res Immunol** 1997 Mar-Apr;148(3):195-201 (46 ref.)

Hematopoietic changes induced by a single injection of anti-CD3 monoclonal antibody into normal mice. Schneider E, et al. **Stem Cells** 1997;15(2):154-60

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 Nov;48(5):609-14

Oral application of romurtide, a synthetic muramyl dipeptide derivative, stimulates nonspecific resistance to microbial infections and hematopoiesis in mice. Namba K, et al. **Vaccine** 1996 Aug;14(12):1149-53

[Role of T-lymphocytes in impaired adaptive reaction of the hemopoietic system in emotional stress developed after preliminary gamma-irradiation] Moroz BB, et al. **Patol Fiziol Eksp Ter** 1996 Jul-Sep;(3):10-3 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Expression and function of integrins on hematopoietic progenitor cells. Coulombel L, et al. **Acta Haematol** 1997; 97(1-2):13-21 (92 ref.)

Expression and function of adhesion receptors in acute myelogenous leukemia: parallels with normal erythroid and myeloid progenitors. Liesveld JL. **Acta Haematol** 1997; 97(1-2):53-62 (108 ref.)

Hematopoietic modulation by the tachykinins. Rameshwar P, et al. **Acta Haematol** 1997;98(2):59-64 (44 ref.)

Integrin-mediated regulation of hematopoiesis: do BCR/ABL-induced defects in integrin function underlie the abnormal circulation and proliferation of CML progenitors? Verfaillie CM, et al. **Acta Haematol** 1997; 97(1-2):40-52 (160 ref.)

Blood flow to the haemopoietic bone marrow. Iversen PO. **Acta Physiol Scand** 1997 Apr;159(4):269-76 (51 ref.)

Cytokine receptor signal transduction and the control of hematopoietic cell development. Watowich SS, et al. **Ann Rev Cell Dev Biol** 1996;12:91-128 (280 ref.)

The significance and distinct interactions of various growth factors in physiologic and pathologic megakaryocytopoiesis/thrombocytopoiesis [letter] Haznedaroglu IC, et al. **Aust N Z J Med** 1997 Apr; 27(2):191-2

Megakaryocytes and platelets in myeloproliferative disorders. Briere J, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):65-88 (103 ref.)

The evolution of megakaryocytes to platelets. Nurden P, et al. **Baillieres Clin Haematol** 1997 Feb;10(1):1-27 (101 ref.)

Megakaryocytes and platelets in vascular disease. van der Loo B, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):109-23 (102 ref.)

Positive and negative regulation of megakaryocytopoiesis. Wendling F, et al. **Baillieres Clin Haematol** 1997 Feb; 10(1):29-45 (85 ref.)

The SCL/TAL1 gene: roles in normal and malignant haematopoiesis. Robb L, et al. **Bioessays** 1997 Jul; 19(7):607-13 (69 ref.)

Haematopoiesis in drug-induced agranulocytosis. Ruvidić R. **Biomed Pharmacother** 1996;50(6-7):275-8 (30 ref.)

Stem cell factor and hematopoiesis. Broudy VC. **Blood** 1997 Aug 15;90(4):1345-64 (313 ref.)

In vivo effects of Flt3/Flk2 ligand on mobilization of hematopoietic progenitors in primates and potent synergistic enhancement with granulocyte colony-stimulating factor. Papayannopoulou T, et al. **Blood** 1997 Jul 15;90(2):620-9

Receptor protein tyrosine phosphatase gamma, Ptp gamma, regulates hematopoietic differentiation. Sorio C, et al. **Blood** 1997 Jul 1;90(1):49-57

Transcription factor GATA-2 is required for proliferation/survival of early hematopoietic cells and mast cell formation, but not for erythroid and myeloid terminal differentiation. Tsai FY, et al. **Blood** 1997 May 15; 89(10):3636-43

Cytokines active on granulomonopoiesis: release and consumption by human marrow myeloid stromal cells. Sensebe L, et al. **Br J Haematol** 1997 Aug;98(2):274-82

The role of collagen in hematopoiesis. Fernández M, et al. **Braz J Med Biol Res** 1996 Sep;29(9):1201-7

Interleukin-7 and lymphopoiesis: biological and clinical implications. Appasamy PM. **Cancer Treat Res** 1995; 80:235-60

Receptors for hematopoietic regulatory cytokines: overview of structure and function. Gullberg U, et al. **Cancer Treat Res** 1995;80:1-24 (118 ref.)

Control of thrombocytopoiesis: current state of the art. Hoffman R, et al. **Cancer Treat Res** 1995;80:25-49 (144 ref.)

Lymphoid potential, probed before circulation in mouse, is restricted to caudal intraembryonic splanchnopleura. Cumano A, et al. **Cell** 1996 Sep 20;86(6):907-16

Definitive hematopoiesis is autonomously initiated by the AGM region. Medvinsky A, et al. **Cell** 1996 Sep 20; 86(6):897-906

Regulatory mechanisms in stem cell biology. Morrison SJ, et al. **Cell** 1997 Feb 7;88(3):287-98 (112 ref.)

HEMATOPOIESIS

A requirement for Flk1 in primitive and definitive hematopoiesis and vasculogenesis. Shalaby F, et al. **Cell** 1997 Jun 13;89(6):981–90

Transforming growth factor beta 1 functions in monocytic differentiation of hematopoietic cells through autocrine and paracrine mechanisms. Turley JM, et al. **Cell Growth Differ** 1996 Nov;7(11):1535–44

Suppression of myelopoiesis and myeloid leukemia cell line proliferation by a novel bone marrow-derived factor, reptimed. DeKoter RP, et al. **Cell Immunol** 1997 Feb 1; 175(2):120–7

Indicators of haematopoietic recovery after bone marrow transplantation: the role of reticulocyte measurements. d'Onofrio G, et al. **Clin Lab Haematol** 1996 Dec;18 Suppl 1:45–53

Stimulation of systemic bone formation induced by experimental blood loss. Lucas TS, et al. **Clin Orthop** 1997 Jul;(340):267–75

Hormones, lymphohemopoietic cytokines and the neuroimmune axis. Johnson RW, et al. **Comp Biochem Physiol A Physiol** 1997 Mar;116(3):183–201 (210 ref.)

A role for leptin and its cognate receptor in hematopoiesis. Bennett BD, et al. **Curr Biol** 1996 Sep 1;6(9):1170–80

Chemokines: molecular double agents. Horuk R, et al. **Curr Biol** 1996 Dec 1;6(12):1581–2 (22 ref.)

Hematopoiesis: wandering progenitor cells. Lasky LA. **Curr Biol** 1996 Oct 1;6(10):1238–40 (11 ref.)

Hematopoiesis: origin pinned down at last? Robb L. **Curr Biol** 1997 Jan 1;7(1):R10–2

Ontogeny of hematopoiesis in the avian embryo: a general paradigm. Dieterlen-Lievre F, et al. **Curr Top Microbiol Immunol** 1996;212:119–28 (30 ref.)

TGF-beta receptor type II deficiency results in defects of yolk sac hematopoiesis and vasculogenesis. Oshima M, et al. **Dev Biol** 1996 Oct 10;179(1):297–302

In vitro characterization of a novel avian haemopoietic growth factor derived from stromal cells. Siatskas C, et al. **Dev Comp Immunol** 1996 Mar-Apr;20(2):139–56

Identification of a lineage of multipotent hematopoietic progenitors. Morrison SJ, et al. **Development** 1997 May; 124(10):1929–39

Aging and haemopoiesis. Implications for treatment with haemopoietic growth factors. Chatta GS, et al. **Drugs Aging** 1996 Jul;9(1):37–47 (101 ref.)

Histone H1(0) expression is restricted to progenitor cells during human hematopoiesis. Valiron O, et al. **Eur J Cell Biol** 1997 Jan;72(1):39–45

The role of cytokines in haematopoiesis. Schwarzmeier JD. **Eur J Haematol Suppl** 1996;60:69–74 (11 ref.)

Action of thrombopoietin at the megakaryocyte progenitor level is critical for the subsequent proplatelet production [published erratum appears in Exp Hematol 1997 Mar;25(3):270] Horie K, et al. **Exp Hematol** 1997 Feb; 25(2):169–76

Stem cell factor-induced expression of p27kip-1 during hematopoietic differentiation. Huss R, et al. **Exp Mol Pathol** 1995 Oct;63(2):129–34

Where do hematopoietic stem cells come from? Dieterlen-Lièvre F, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):3–8 (53 ref.)

Gamma 2b provides only some of the signals normally given via mu in B cell development. Kurtz BS, et al. **Int Immunol** 1997 Mar;9(3):415–26

The molecular control of development in normal and leukemic blood cells. Sachs L. **Int J Dev Biol** 1996;Suppl 1:61S–62S

Deregulated expression of c-myc in megakaryocytes of transgenic mice increases megakaryopoiesis and decreases polyploidization. Thompson A, et al. **J Biol Chem** 1996 Sep 20;271(38):22976–82

Regulation and reconstitution of human hematopoiesis. Yu J. **J Formos Med Assoc** 1996 Apr;95(4):281–93 (85 ref.)

The flt3 ligand promotes the survival of primitive hemopoietic progenitor cells with myeloid as well as B lymphoid potential. Suppression of apoptosis and counteraction by TNF-alpha and TGF-beta. Veiby OP, et al. **J Immunol** 1996 Oct 1;157(7):2953–60

A population of interstitial cells in the anterior pituitary with a hematopoietic origin and a rapid turnover: a relationship with folliculo-stellate cells? Allaerts W, et al. **J Neuroimmunol** 1997 Sep;78(1-2):184–97

Gene transfer-mediated generation of drug-resistant hemopoiesis. Bertolini F, et al. **Leuk Lymphoma** 1996 Mar; 21(1-2):17–23 (31 ref.)

The role of stromal cell heparan sulphate in regulating haemopoiesis. Coombe DR. **Leuk Lymphoma** 1996 May; 21(5-6):399–406 (82 ref.)

The mechanisms involved in the impairment of hematopoiesis after autologous bone marrow transplantation. Domenech J, et al. **Leuk Lymphoma** 1997 Jan;24(3-4):239–56 (126 ref.)

Role of hepatocyte growth factor in hemopoiesis. Ikehara S. **Leuk Lymphoma** 1996 Oct;23(3-4):297–303 (29 ref.)

In leukemic hematopoiesis CD34 antigen does not have the same significance as it does normal hematopoiesis. Del Cañizo MC, et al. **Leuk Res** 1997 Jul;21(7):651–6

Thrombopoietin and the physiology of platelet production [editorial] Kaushansky K. **Leuk Res** 1996 Sep;20(9):705–7

Tumor necrosis factor-alpha suppresses hematopoiesis in children with myelodysplasia. Winter SS, et al. **Med Pediatr Oncol** 1997 Jan;28(1):69–74

Role of CSF-1 in bone and bone marrow development. Cecchini MG, et al. **Mol Reprod Dev** 1997 Jan;46(1):75–83; discussion 83–4 (32 ref.)

Gotta find GATA a friend [news] Krause DS, et al. **Nat Med** 1997 Sep;3(9):960–1

Haematopoiesis. Master regulator unmasked [news] Green T. **Nature** 1996 Oct 17;383(6601):575, 577

Transcription factor GATA-3 is required for development of the T-cell lineage. Ting CN, et al. **Nature** 1996 Dec 5;384(6608):474–8

Comparative morphometric study of immunohistochemical versus conventional staining for the evaluation of megakaryocytopoiesis in normal and pathological bone marrow biopsies. Marisavljević D, et al. **Pathol Int** 1997 May;47(5):301–7

Circulating megakaryocytes and their progenitors in early thrombocytopenia in preterm neonates. Murray NA, et al. **Pediatr Res** 1996 Jul;40(1):112–9

Defective in vitro granulopoiesis in patients with anorexia nervosa. Vaisman N, et al. **Pediatr Res** 1996 Jul; 40(1):108–11

Adrenergic regulation of haematopoiesis. Maestroni GJ. **Pharmacol Res** 1995 Nov;32(5):249–53 (36 ref.)

The role of fibroblast growth factor-2 (FGF-2) in hematopoiesis. Allouche M, et al. **Prog Growth Factor Res** 1995;6(1):35–48 (86 ref.)

Induction of granulocytic differentiation in myeloblasts by 17-beta-estradiol involves the leukotriene D4 receptor. Dietsch V, et al. **Recept Signal Transduct** 1996;6(2):63–75

Development of the blood-forming tissues of the tammar wallaby Macropus eugenii. Basden K, et al. **Reprod Fertil Dev** 1996;8(6):989–94

Normal and leukemic human stem cells assayed in SCID mice. Dick JE. **Semin Immunol** 1996 Aug;8(4):197–206 (69 ref.)

Development and applications of the SCID-hu mouse model. McCune JM. **Semin Immunol** 1996 Aug;8(4):187–96 (66 ref.)

Blood cell transplantation: concepts and concerns. Kapustay PM. **Semin Oncol Nurs** 1997 Aug;13(3):151–63 (44 ref.)

Temporary appearance of a circulating granulocyte-macrophage colony-stimulating factor in lethal murine malaria. Owhashi M, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):530–4

Cytokine regulation of early lymphohematopoietic development. Hirayama F, et al. **Stem Cells** 1996 Jul; 14(4):369–75 (41 ref.)

Importance of parenchymal:stromal cell ratio for the ex vivo reconstitution of human hematopoiesis. Koller MR, et al. **Stem Cells** 1997;15(4):305–13

Endogenously produced interleukin 6 is an accessory cytokine for dendritic cell hematopoiesis. Santiago-Schwarz F, et al. **Stem Cells** 1996 Mar; 14(2):225–31

Serum thrombopoietin level in various hematological diseases. Usuki K, et al. **Stem Cells** 1996 Sep;14(5):558–65

Role of c-Fes in normal and neoplastic hematopoiesis. Yates KE, et al. **Stem Cells** 1996 Jan;14(1):117–23 (66 ref.)

Suppression of haematopoiesis by sera from patients with aplastic anemia. Liu H, et al. **Tokushima J Exp Med** 1996 Dec;43(3-4):107–11

[Positive and negative regulation of megakaryocytopoiesis] Bellucci S, et al. **C R Seances Soc Biol Fil** 1996; 190(5-6):515–32 (85 ref.) (Eng. Abstr.) **(Fre)**

[Significance of thrombopoietin and its receptor c-Mpl in regulation of thrombocytopoiesis in thrombocytopenia] Strauss G, et al. **Klin Padiatr** 1996 Jul-Aug;208(4):168–71 (Eng. Abstr.) **(Ger)**

[Molecular mechanism and clinical aspects of blood cell production] Miura Y. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1419–30 **(Jpn)**

[The role of glycosaminoglycans and proteoglycans in hemopoiesis and the physiological functions of the blood cells] Kharchenko MF, et al. **Fiziol Zh Im I M Sechenova** 1996 May-Jun;82(5-6):18–25 (40 ref.) (Eng. Abstr.) **(Rus)**

[Results of studies of regulatory mechanisms of hematopoiesis in health and disease] Gol'dberg ED, et al. **Vestn Ross Akad Med Nauk** 1997;(5):56–60 (60 ref.) (Eng. Abstr.) **(Rus)**

[Inhibitory factors in hematopoiesis: present and future] Putintseva E. **Sangre (Barc)** 1996 Dec;41(6):459–63 (54 ref.) **(Spa)**

RADIATION EFFECTS

Enhanced hematopoiesis in sublethally irradiated mice treated with various quinolones. Shalit I, et al. **Eur J Haematol** 1997 Feb;58(2):92–8

Effect of gamma radiation on fetal haemopoiesis of mouse. Hossain M, et al. **Indian J Exp Biol** 1996 Sep;34(9):880–2

Combined modality radioprotection: enhancement of survival and hematopoietic recovery in gamma-irradiated mice by the joint use of liposomal muramyl tripeptide phosphatidylethanolamine (MTP-PE) and indomethacin. Fedoročko P, et al. **Int J Immunopharmacol** 1996 May; 18(5):329–37

Long-term haemopoietic injury in mouse by 1 Gy X-rays at different postconceptional stages. Escribano S, et al. **Int J Radiat Biol** 1997 Feb;71(2):215–23

[Long-term hematopoietic reconstitution after myeloablative antitumor therapy and circulating hematopoietic stem cell transplantation] Siena S, et al. **Tumori** 1996 Mar-Apr;82(2 Suppl):S23–7 (Eng. Abstr.) **(Ita)**

[Dynamic hematopoietic system function in persons exposed to ionizing radiation (1986–1993)] Klimenko VI, et al. **Lik Sprava** 1996 Jul-Sep;(7-9):41–4 **(Rus)**

HEMATOPOIESIS, EXTRAMEDULLARY

Spinal cord compression due to extramedullary hematopoiesis in the proliferative phase of polycythemia vera. de Morais JC, et al. **Acta Haematol** 1996;96(4):242–4

Acute cardiac tamponade associated with pericardial extramedullary hematopoiesis in agnogenic myeloid metaplasia. Imam TH, et al. **Acta Haematol** 1997;98(1):42–3

MR of thoracic cord compression caused by epidural extramedullary hematopoiesis in myelodysplastic syndrome. Dibbern DA Jr, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):363–6

Chest case of the day. Extramedullary hematopoiesis (EMH). Gilkeson RC, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):267, 270–3

Retroperitoneal extramedullary hematopoiesis: sonographic, CT, and MR imaging appearance. Mesurolle B, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1139–40

Perirenal extramedullary hematopoiesis in agnogenic myeloid metaplasia: MR imaging findings [letter] Rapezzi D, et al. **AJR Am J Roentgenol** 1997 May;168(5):1388–9

Bone marrow mastocytosis associated with an undifferentiated extramedullary tumor of hemopoietic origin. Horny HP, et al. **Arch Pathol Lab Med** 1997 Apr; 121(4):423–6

Intrathoracic extramedullary hematopoietic tumor in hemoglobin C disease [letter; comment] Hoyer JD, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):355–6. Comment on: Arch Pathol Lab Med 1996 May;120(5):504–6.

Intrathoracic extramedullary hematopoietic tumor in hemoglobin C disease [letter; comment] Stokes GN, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):355. Comment on: Arch Pathol Lab Med 1996 May;120(5):504–6.

Physiological dose of estrogen regulates extrathymic T cells in female mice. Yahata T, et al. **Cell Immunol** 1996 Aug 1;171(2):269–76

Paravertebral mass in a patient with thalassemia intermedia. Alam R, et al. **Chest** 1997 Jul;112(1):265–7

Nodular hematopoiesis of the liver diagnosed by fine-needle aspiration cytology. Lemos LB, et al. **Diagn Cytopathol** 1997 Jan;16(1):51–4 (40 ref.)

Extramedullary haematopoiesis in thyroid multinodular goitre preceding clinical evidence of agnogenic myeloid metaplasia. Leoni F, et al. **Histopathology** 1996 Jun; 28(6):559–61

CD86 (B7-2) on human B cells. A functional role in proliferation and selective differentiation into IgE- and IgG4-producing cells. Jeannin P, et al. **J Biol Chem** 1997 Jun 20;272(25):15613–9

Extrathymic origin of human gamma delta T cells during fetal development. McVay LD, et al. **J Immunol** 1996 Oct 1;157(7):2873–82

Scintigraphic diagnosis of intrathoracic extramedullary hematopoiesis in alcohol-related macrocytosis. De Geeter F, et al. **J Nucl Med** 1996 Mar;37(3):473–5

Extensive extramedullary hematopoiesis in a thyroid nodule. Lazzi S, et al. **Mod Pathol** 1996 Nov;9(11):1062–5

[Hemothorax in the posterior mediastinum in extramedullary hemopoiesis] Malinovská V, et al. **Vnitr Lek** 1996 Aug; 42(8):555–6 (Eng. Abstr.) **(Cze)**

[Spinal cord compression by extramedullary hematopoiesis in thalassemia major] Müller-Lisse GU, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):505–7 (8 ref.) **(Ger)**

DRUG EFFECTS

Splenic hematopoiesis after granulocyte-colony stimulating factor therapy in a lupus patient [letter] Tsoi WC, et al. **Am J Hematol** 1996 Dec;53(4):283–4 (4 ref.)

Spontaneous splenic rupture following administration of granulocyte colony-stimulating factor (G-CSF): occurrence in an allogeneic donor of peripheral blood stem cells. Becker PS, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):45–9

FLT3 ligand induces the generation of functionally active dendritic cells in mice. Shurin MR, et al. **Cell Immunol** 1997 Aug 1;179(2):174–84

[Changes in lymphocytopoiesis in the thymus gland of the progeny of rats receiving progesterone] Churilova NI, et al. **Morfologiia** 1996;110(5):76–81 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Decidua as a site of extrathymic V gamma I T-cell differentiation. Hayakawa S, et al. **Am J Reprod Immunol** 1996 Mar;35(3):233–8

FLT3 ligand induces the generation of functionally active dendritic cells in mice. Shurin MR, et al. **Cell Immunol** 1997 Aug 1;179(2):174–84

Deregulated TCR alpha beta T cell population provokes extramedullary hematopoiesis in mice deficient in the common gamma chain. Sharara LI, et al. **Eur J Immunol** 1997 Apr;27(4):990–8

Identification of lambda light chain amyloid in eight canine and two feline extramedullary plasmacytomas. Platz SJ, et al. **J Comp Pathol** 1997 Jan;116(1):45–54

PHYSIOLOGY

Erythropoiesis and vasculogenesis in embryoid bodies lacking visceral yolk sac endoderm. Bielinska M, et al. **Blood** 1996 Nov 15;88(10):3720–30

Interleukin–7 is a critical growth factor in early human T–cell development. Plum J, et al. **Blood** 1996 Dec 1; 88(11):4239–45

Extramedullary haematopoiesis in thalassaemia: results of radiotherapy: a report of three patients. Pistevou–Gompaki K, et al. **Clin Oncol (R Coll Radiol)** 1996;8(2):120–2

Assessment of the contribution of the spleen to granulocytopoiesis and erythropoiesis of the mid–gestation human fetus. Calhoun DA, et al. **Early Hum Dev** 1996 Nov 21;46(3):217–27

Extramedullary hematopoiesis in the adult mouse liver is associated with specific hepatic sinusoidal endothelial cells. Cardier JE, et al. **Hepatology** 1997 Jul;26(1):165–75

Regulation of an extrathymic T–cell development pathway by oncostatin M. Clegg CH, et al. **Nature** 1996 Nov 21; 384(6606):261–3

RADIATION EFFECTS

Radiotherapy combined with erythropoietin for the treatment of extramedullary hematopoiesis in an alloimmunized patient with thalassemia intermedia. Cianciulli P, et al. **Ann Hematol** 1996 Jun;72(6):379–81

HEMATOPOIETIC AGENTS see **HEMATINICS**

HEMATOPOIETIC CELL GROWTH FACTORS

see related
RECEPTORS, COLONY–STIMULATING FACTOR

4th International Lübeck Conference on the Pathophysiology and Pharmacology of Erythropoietin and other Hematopoietic Growth Factors. Lübeck, Germany, 27–29 June 1997. Abstracts. **Ann Hematol** 1997 May; 74(5):A163–79

Hematopoietic growth factors. **Curr Opin Hematol** 1997 May; 4(3):B93–128

Standardization of the CFU–GM assay using hematopoietic growth factors. Lewis ID, et al. **J Hematother** 1996 Dec; 5(6):625–30

The contribution of animal models to the development of treatments for hematologic recovery following myeloablative therapy: a review. Schneidkraut MJ, et al. **J Hematother** 1996 Dec;5(6):631–46 (226 ref.)

Growth factors and their impact on transfusion medicine. Miller YM, et al. **Vox Sang** 1996;71(4):196–204 (48 ref.)

[Hematopoietic growth factors: general presentation] Guillosson JJ. **Ann Pharm Fr** 1996;54(4):145–50 (Eng. Abstr.) **(Fre)**

ADMINISTRATION & DOSAGE

[High dose chemotherapy of solid tumors] Höffken K, et al. **Med Klin** 1997 Jul 15;92(7):410–4 (18 ref.) (Eng. Abstr.) **(Ger)**

ANALYSIS

Hematopoietic growth factors in leukemia. Touw IP, et al. **Pathol Res Pract** 1996 Jul;192(7):734–42 (81 ref.)

BIOSYNTHESIS

Differential regulation of proinflammatory and hematopoietic cytokines in human macrophages after infection with human immunodeficiency virus. Esser R, et al. **Blood** 1996 Nov 1;88(9):3474–81

Inadequate production of hematopoietic growth factors in hairy cell leukemia: up–regulation of interleukin 6 by recombinant IFN–alpha in vitro. Schwarzmeier JD, et al. **Cancer Res** 1996 Oct 15;56(20):4679–85

Structure–activity relationships of novel hematoregulatory peptides. Bhatnagar PK, et al. **J Med Chem** 1996 Sep 13; 39(19):3814–9

CHEMICAL SYNTHESIS

Preparation of a recombinant chimaera of insulin–like growth factor II and interleukin 3 with high proliferative potency for haemopoietic cells. Difalco MR, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):407–13

GENETICS

Activation of hematopoietic growth factor signal transduction pathways by the human oncogene BCR/ABL. Sattler M, et al. **Cytokine Growth Factor Rev** 1997 Mar; 8(1):63–79 (165 ref.)

Bone marrow failure by cytomegalovirus is associated with an in vivo deficiency in the expression of essential stromal hemopoietin genes. Mayer A, et al. **J Virol** 1997 Jun; 71(6):4589–98

Cloning, expression, and characterization of a cDNA encoding a novel human growth factor for primitive hematopoietic progenitor cells. Hiraoka A, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7577–82

IMMUNOLOGY

Allergen–induced increase in bone marrow progenitors in airway hyperresponsive dogs: regulation by a serum hemopoietic factor. Inman MD, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):305–11

ISOLATION & PURIFICATION

In vitro characterization of a novel avian haemopoietic growth factor derived from stromal cells. Siatskas C, et al. **Dev Comp Immunol** 1996 Mar–Apr;20(2):139–56

METABOLISM

Molecular understanding of hematopoietin/cytokine receptor signaling defects in hematopoietic disorders. Soede–Bobok AA, et al. **J Mol Med** 1997 Jul;75(7):470–7 (80 ref.)

PHARMACOLOGY

Thrombopoietin is synergistic with other hematopoietic growth factors and physiologic platelet agonists for platelet activation in vitro. Wun T, et al. **Am J Hematol** 1997 Mar; 54(3):225–32

Effect of hematopoietic growth factors on the rate of neutrophil recovery following peripheral blood stem cell transplantation [letter; comment] Klumpp TR, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):1–2. Comment on: Biol Blood Marrow Transplant 1995 Nov;1(1);3–17.

Ability of early acting cytokines to directly promote survival and suppress apoptosis of human primitive CD34+CD38– bone marrow cells with multilineage potential at the single–cell level: key role of thrombopoietin. Borge OJ, et al. **Blood** 1997 Sep 15;90(6):2282–92

Suppression of apoptosis in hematopoietic factor–dependent progenitor cell lines by expression of the FAC gene. Cumming RC, et al. **Blood** 1996 Dec 15;88(12):4558–67

Activation of the stress–activated protein kinases by multiple hematopoietic growth factors with the exception of interleukin–4. Foltz IN, et al. **Blood** 1997 May 1; 89(9):3092–6

Predictive factors affecting mobilization and peripheral blood stem cell (PBSC) collection using single apheresis (SA) for rescuing patients after high–dose chemotherapy (HD.CHE) in various malignancies. Koumakis G, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1065–72

Detection of a dormant 20q– leukemia clone in bone marrow cultures with hematopoietic growth factors: implications for secondary leukemia post–transplant. Redei I, et al. **Bone Marrow Transplant** 1997 Mar;19(5):521–3

Combination of SCF, IL–6, IL–3, and GM–CSF increases the mitotic index in short term bone marrow cultures from acute promyelocytic leukemia (APL) patients. Williams B, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):77–81

Aging and haemopoiesis. Implications for treatment with haemopoietic growth factors. Chatta GS, et al. **Drugs Aging** 1996 Jul;9(1):37–47 (101 ref.)

The MS–5 murine stromal cell line and hematopoietic growth factors synergize to support the megakaryocytic differentiation of embryonic stem cells. Berthier R, et al. **Exp Hematol** 1997 Jun;25(6):481–90

Differential regulation by hematopoietic growth factors of apoptosis and mitosis in acute myeloblastic leukemia cells. Murohashi I, et al. **Exp Hematol** 1997 Sep;25(10):1042–50

Recombinant human c–Mpl ligand (thrombopoietin) not only acts on megakaryocyte progenitors, but also on erythroid and multipotential progenitors in vitro. Tanimukai S, et al. **Exp Hematol** 1997 Sep;25(10):1025–33

Retrovirus–mediated gene expression in hematopoietic cells correlates inversely with growth factor stimulation. Lu M, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2263–71

Host immunologic augmentation for the control of infection. Wingard JR, et al. **Infect Dis Clin North Am** 1996 Jun; 10(2):345–64 (111 ref.)

Standardization of the CFU–GM assay using hematopoietic growth factors [letter] Rich IN. **J Hematother** 1997 Jun; 6(3):191–3

The flt3 ligand promotes the survival of primitive hemopoietic progenitor cells with myeloid as well as B lymphoid potential. Suppression of apoptosis and counteraction by TNF–alpha and TGF–beta. Veiby OP, et al. **J Immunol** 1996 Oct 1;157(7):2953–60

Promotion of proliferation of murine hematopoietic stem cells by growth factors in murine amniotic fluid. Heidari Z, et al. **J Reprod Immunol** 1996 Aug;31(1–2):51–64

CD34+Thy–1+Lin– stem cells from mobilized peripheral blood. Murray LJ, et al. **Leuk Lymphoma** 1996 Jun; 22(1–2):37–42, follow. 186, color plate I (57 ref.)

Haemopoietic growth factors, the cell cycle of acute myeloblastic leukaemia progenitors and sensitivity to cytosine arabinoside. Smith MA, et al. **Leuk Lymphoma** 1996 Nov;23(5–6):467–72 (36 ref.)

Peripheral blood CD34+ cells: method of purification and ex vivo expansion. Bohbot A, et al. **Nouv Rev Fr Hematol** 1995;37(6):359–65

The effect of a hematopoietic–promoting factor (HPF) extracted from porcine kidney on the proliferation of human hematopoietic progenitor cells. Takahashi TA, et al. **Res Commun Mol Pathol Pharmacol** 1996 Feb; 91(2):185–93

PHYSIOLOGY

Peripheral blood mobilization of hematopoietic stem cells: cytokine–mediated regulation of adhesive interactions within the hematopoietic microenvironment. Santucci MA, et al. **Acta Haematol** 1997;97(1–2):90–6 (52 ref.)

Synergism of hemopoietic growth factors on endothelial cell proliferation. Sigounas G, et al. **Angiology** 1997 Feb; 48(2):141–7

Haemopoietic growth factors and leukaemogenesis. Pierce A, et al. **Biochem Soc Trans** 1997 May;25(2):366–70 (45 ref.)

Receptors for hematopoietic regulatory cytokines: overview of structure and function. Gullberg U, et al. **Cancer Treat Res** 1995;80:1–24 (118 ref.)

Selection versus instruction? **Ciba Found Symp** 1997;204:33–9 (4 ref.)

Test tube data and in vivo realities. **Ciba Found Symp** 1997; 204:88–93 (5 ref.)

Effect of flt3 ligand on in vitro growth and expansion of colony–forming bone marrow cells from patients with aplastic anemia. Wodnar–Filipowicz A, et al. **Exp Hematol** 1997 Jul;25(7):573–81

Role of hepatocyte growth factor in hemopoiesis. Ikehara S. **Leuk Lymphoma** 1996 Oct;23(3–4):297–303 (29 ref.)

The Charlotte Friend Memorial Lecture. The role of hematopoietic growth factors in the development and suppression of myeloid leukemias. Metcalf D. **Leukemia** 1997 Oct;11(10):1599–604 (55 ref.)

[Hematopoietic growth factors—physiology and therapeutic use] Balint B, et al. **Vojnosanit Pregl** 1997 Mar–Apr; 54(2):145–54 **(Scr)**

THERAPEUTIC USE

Incidence and prevention of nonhaematological toxicity of high–dose chemotherapy. Hoekman K, et al. **Ann Med** 1996 Apr;28(2):175–82 (66 ref.)

Hematopoietic growth factors as adjuncts to the treatment of acute myeloid leukemia. Schiffer CA. **Blood** 1996 Nov 15;88(10):3675–85 (69 ref.)

Use of haemopoietic growth factors: commentary on the ASCO/ECOG guidelines. American Society of Clinical Oncology/Eastern Co–operative Oncology Group. Byrne JL, et al. **Blood Rev** 1997 Mar;11(1):16–27 (83 ref.)

Treatment of the neutropenia of Felty syndrome. Rashba EJ, et al. **Blood Rev** 1996 Sep;10(3):177–84 (57 ref.)

What is the most effective treatment of children with severe aplastic anemia who lack a matched sibling donor? Johnson FL. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S39–44 (66 ref.)

Use of hematopoietic growth factors for treatment of aplastic anemia. Kojima S. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S36–8 (24 ref.)

The role of cytokines following bone marrow transplantation: indications and controversies. Weinthal JA. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S10–4 (30 ref.)

Mobilization of peripheral blood progenitor cells by hematopoietic growth factors. Chao NJ. **Can J Oncol** 1995 Dec;5 Suppl 1:43–6

Recombinant cytokines and hematopoietic growth factors in allogeneic and autologous bone marrow transplantation. Lazarus HM. **Cancer Treat Res** 1997;77:255–301 (379 ref.)

Supportive care in hematologic malignancies, including hematopoietic growth factors, transfusions, and infectious complications. Fetscher S, et al. **Curr Opin Hematol** 1997 Jul;4(4):248–55 (65 ref.)

Hematopoietic growth factors in cancer patients with invasive fungal infections. Offner F. **Eur J Clin Microbiol Infect Dis** 1997 Jan;16(1):56–63 (55 ref.)

Hematopoietic growth factors in an age of uncertainty [editorial; comment] Shurin SB. **J Pediatr** 1996 Nov; 129(5):625–6. Comment on: J Pediatr 1996 Nov;129(5):656–60.

Therapeutic potential of the hematopoietic growth factors. Usha D, et al. **J Postgrad Med** 1994 Oct–Dec;40(4):210–5 (26 ref.)

Hematopoietic growth factors in acute leukemia. Rowe JM, et al. **Leukemia** 1997 Mar;11(3):328–41 (135 ref.)

Hematopoietic progenitor cell expansion [editorial] Reiffers J, et al. **Nouv Rev Fr Hematol** 1995;37(6):333

Bone marrow uptake of fluorine–18–fluorodeoxyglucose following treatment with hematopoietic growth factors: initial evaluation. Knopp MV, et al. **Nucl Med Biol** 1996 Aug;23(6):845–9

Haemopoietic growth factors. Ketley NJ, et al. **Postgrad Med J** 1997 Apr;73(858):215–21 (48 ref.)

Hematopoiesis and growth factors in elderly cancer patients. Tafuri A, et al. **Rays** 1997 Jan–Mar;22(1 Suppl):37–41

Clinical use of hematopoietic growth factors in the myelodysplastic syndromes. Ganser A, et al. **Semin Hematol** 1996 Jul;33(3):186–95 (95 ref.)

[Current status of the clinical application of hematopoietic growth factors in oncology] Karthaus M, et al. **Ther Umsch** 1996 Nov;53(11):863–73 (49 ref.) (Eng. Abstr.) **(Ger)**

[Clinical application of platelet hematopoiesis factor, thrombopoietin(c–Mp1ligand)] Fujimoto K, et al. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):850–6 (7 ref.) **(Jpn)**

HEMATOPOIETIC GROWTH FACTORS RECEPTORS see **RECEPTORS, COLONY–STIMULATING FACTOR**

HEMATOPOIETIC NEOPLASMS see **HEMATOLOGIC NEOPLASMS**

HEMATOPOIETIC STEM CELL TRANSPLANTATION

10th Symposium on Molecular Biology of Hematopoiesis and Treatment of Leukemias and Lymphomas. Hamburg, Germany July 2–6, 1997. Abstracts. **Acta Haematol** 1997; 98 Suppl 1:1–127

Homing and trafficking of hemopoietic progenitor cells. Papayannopoulou T, et al. **Acta Haematol** 1997; 97(1–2):97–104 (73 ref.)

Transplantation of bone marrow and peripheral stem cells. Alvegård T. **Acta Oncol** 1996;35 Suppl 7:137–40

High-dose chemotherapy and autologous blood stem cell transplantation in children with metastatic neuroblastoma. Kai T, et al. **Acta Paediatr Jpn** 1997 Feb;39(1):54–60

Should soybean agglutinin purging be performed in breast cancer patients undergoing autologous stem cell transplantation? A retrospective analysis of 48 patients. Ben-Yosef R, et al. **Am J Clin Oncol** 1997 Aug;20(4):419–23

The significance of light chain-restricted bone marrow plasma cells after peripheral blood stem cell transplantation for multiple myeloma. Maia DM, et al. **Am J Clin Pathol** 1997 Jun;107(6):643–52

Outpatient therapy with aldesleukin after autologous bone marrow transplantation [letter] Matos da Silva AC, et al. **Am J Health Syst Pharm** 1996 Jul 15;53(14):1722, 1724

Autologous bone marrow versus non-mobilized peripheral blood stem cell transplantation for lymphoid malignancies: a prospective, comparative trial. Weisdorf DJ, et al. **Am J Hematol** 1997 Mar;54(3):202–8

Impact of obesity on allogeneic stem cell transplant patients: a matched case-controlled study. Fleming DR, et al. **Am J Med** 1997 Mar;102(3):265–8

Assessment of the composition of bone marrow prior to and following autologous BMT and PBSCT by magnetic resonance. Schick F, et al. **Ann Hematol** 1996 Jun; 72(6):361–70

Philadelphia chromosome-positive secondary acute myeloid leukemia following high-dose chemotherapy with peripheral blood progenitor cell support for relapsed low-grade non-Hodgkin's lymphoma. Stockschläder M, et al. **Ann Hematol** 1996 Dec;73(6):291–3

Autologous stem cell transplantation in solid tumours of childhood. Atra A, et al. **Ann Med** 1996 Apr;28(2):159–64 (43 ref.)

High-dose chemotherapy with autologous stem cell support in advanced ovarian cancer. Grénman SE, et al. **Ann Med** 1996 Apr;28(2):151–8 (64 ref.)

Incidence and prevention of nonhaematological toxicity of high-dose chemotherapy. Hoekman K, et al. **Ann Med** 1996 Apr;28(2):175–82 (66 ref.)

Autologous stem cell transplantation in breast cancer. Joensuu H. **Ann Med** 1996 Apr;28(2):145–9 (35 ref.)

Autologous stem cell transplantation in the treatment of cancer. Niskanen E. **Ann Med** 1996 Feb;28(1):57–62 (62 ref.)

Autologous stem cell transplantations [editorial] Remes K, et al. **Ann Med** 1996 Apr;28(2):79–81

Autologous stem cell transplants in lymphomas. Vandenberghe EA, et al. **Ann Med** 1996 Apr;28(2):137–43 (74 ref.)

European School of Oncology Task Force Programme Workshop on Peripheral Blood Progenitor Cells. Paris, France, September 29–30, 1995. **Ann Oncol** 1996;7 Suppl 2:1–58

Peripheral blood progenitor cell transplantation: where do we stand? Chairman's Summary of the European School of Oncology Task Force meeting Peripheral Blood progenitor cell's held September 29–30, 1995. Boogaerts MA, et al. **Ann Oncol** 1996;7 Suppl 2:1–4 (20 ref.)

Cord blood transplants raise hopes, concern in the U.S. [news] Dickman S. **Ann Oncol** 1996 Mar;7(3):216–7

Sequential high-dose therapy and autologous stem cell transplantation for treatment of mantle cell lymphoma. Dreger P, et al. **Ann Oncol** 1997 Apr;8(4):401–3

Stem cells with short-term and long-term repopulating ability in the mouse. Fibbe WE, et al. **Ann Oncol** 1996;7 Suppl 2:15–8 (18 ref.)

Bone marrow and peripheral blood stem cell transplantation in multiple myeloma [editorial; comment] Gahrton G. **Ann Oncol** 1997 Mar;8(3):219–21 (27 ref.). Comment on: Ann Oncol 1997 Mar;8(3):243–6.

High-dose therapy with peripheral blood progenitor cell transplantation in multiple myeloma [see comments] Goldschmidt H, et al. **Ann Oncol** 1997 Mar;8(3):243–6. Comment in: Ann Oncol 1997 Mar;8(3):219–21.

Treatment of mantle-cell lymphomas with the VAD +/- chlorambucil regimen with or without subsequent high-dose therapy and peripheral blood stem-cell transplantation. Gressin R, et al. **Ann Oncol** 1997;8 Suppl 1:103–6

Allogeneic transplantation of peripheral blood progenitor cells. Link H, et al. **Ann Oncol** 1996;7 Suppl 2:41–5 (43 ref.)

Multivariate analyses of prognostic factors associated with hematopoietic recovery in autograft patients with different sources of progenitor cells. A GATMO experience. Argintine Group of Bone Marrow Transplant. Pavlovsky S, et al. **Ann Oncol** 1996 Sep;7(7):719–24

The study of haemopoietic stem cells in patients: concepts, approaches and cautionary tales. Testa NG, et al. **Ann Oncol** 1996;7 Suppl 2:5–8 (24 ref.)

Immediate breast reconstruction in the high-risk adjuvant setting. Wey PD, et al. **Ann Plast Surg** 1997 Apr; 38(4):342–4

Autologous haemopoietic stem cell transplantation in a patient with severe pulmonary hypertension complicating connective tissue disease [letter] Tamm M, et al. **Ann Rheum Dis** 1996 Oct;55(10):779–80

Mobilisation of blood progenitor cells with ifosfamide and etoposide (VP-16) in combination with recombinant human G-CSF (Filgrastim) in patients with malignant lymphomas or solid tumours. Baars JW, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3089–95

Pharmacokinetics of high-dose intravenous melphalan in patients undergoing peripheral blood hematopoietic progenitor-cell transplantation. Pinguet F, et al. **Anticancer Res** 1997 Jan-Feb;17(1B):605–11

The clinical applications of granulocyte colony-stimulating factor in hematopoietic stem cell transplantation: a review. Tabbara IA, et al. **Anticancer Res** 1996 Nov-Dec; 16(6B):3901–5 (43 ref.)

Lack of ability of ciprofloxacin-rifampin prophylaxis to decrease infection-related morbidity in neutropenic patients given cytotoxic therapy and peripheral blood stem cell transplants. Hidalgo M, et al. **Antimicrob Agents Chemother** 1997 May;41(5):1175–7

Chemotherapy-induced eccrine squamous syringometaplasia. A distinctive eruption in patients receiving hematopoietic progenitor cells [see comments] Valks R, et al. **Arch Dermatol** 1997 Jul;133(7):873–8. Comment in: Arch Dermatol 1997 Jul;133(7):905–6.

Outcome of rheumatoid arthritis and psoriasis following autologous stem cell transplantation for hematologic malignancy. Cooley HM, et al. **Arthritis Rheum** 1997 Sep; 40(9):1712–5

Autologous hemopoietic stem cell transplantation: a possible cure for rheumatoid arthritis? Wicks I, et al. **Arthritis Rheum** 1997 Jun;40(6):1005–11 (59 ref.)

Multiple cycles of aggressive chemotherapy prior to autologous peripheral stem cell transplantation for lymphoma. Goss G, et al. **Aust N Z J Med** 1997 Jun; 27(3):323–9

Intermediate dose cyclophosphamide combined with a growth factor is a safe and effective regimen for mobilisation of peripheral blood progenitor cells. Goss G, et al. **Aust N Z J Med** 1996 Jun;26(3):411–3

Novel approaches in blood and marrow transplantation. Report on the 2nd annual scientific meeting of The American Society for Blood and Marrow Transplantation. Joint Special Conference with the American Association for Cancer Research. Jointly sponsored by the College of Physicians and Surgeons of Columbia University. October 2–6, 1996, San Diego, CA. **Biol Blood Marrow Transplant** 1996 Oct;2(3):145–72

American Society for Blood and Marrow Transplantation guidelines for training. Appelbaum F, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):56

Spontaneous splenic rupture following administration of granulocyte colony-stimulating factor (G-CSF): occurrence in an allogeneic donor of peripheral blood stem cells. Becker PS, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):45–9

Tandem peripheral blood progenitor cell transplants as initial therapy for metastatic breast cancer. Ghalie R, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):40–6

Effect of hematopoietic growth factors on the rate of neutrophil recovery following peripheral blood stem cell transplantation [letter; comment] Klumpp TR, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):1–2. Comment on: Biol Blood Marrow Transplant 1995 Nov;1(1);3–17.

Improved engraftment of human cord blood stem cells in NOD/LtSz-scid/scid mice after irradiation or multiple-day injections into unirradiated recipients. Lowry PA, et al. **Biol Blood Marrow Transplant** 1996 Feb; 2(1):15–23

High degree of occult tumor contamination in bone marrow and peripheral blood stem cells of patients undergoing autologous transplantation for non-Hodgkin's lymphoma. McCann JC, et al. **Biol Blood Marrow Transplant** 1996 Feb; 2(1):37–43

Low dose subcutaneous interleukin-2 after autologous transplantation generates sustained in vivo natural killer cell activity. Miller JS, et al. **Biol Blood Marrow Transplant** 1997 Apr;3(1):34–44

Long-term engraftment, graft-vs.-host disease, and immunologic reconstitution after experimental transplantation of allogeneic peripheral blood cells from G-CSF-treated donors. Pan L, et al. **Biol Blood Marrow Transplant** 1996 Oct;2(3):126–33

American Society for Blood and Marrow Transplantation guidelines for clinical centers. Phillips G, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):54–5

Nonlinear effects of radiation dose on donor-cell reconstitution by limited numbers of purified stem cells. Rebel VI, et al. **Biol Blood Marrow Transplant** 1995 Nov; 1(1):32–9

Transplantation of purified hematopoietic stem cells: requirements for overcoming the barriers of allogeneic engraftment [published erratum appears in Biol Blood Marrow Transplant 1997 Apr;3(1):50] Shizuru JA, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):3–14

Influence of preparatory regimen and source of hematopoietic cells on outcome of autotransplantation for non-Hodgkin's lymphoma. Stockerl-Goldstein KE, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):76–85

Enriched hematopoietic stem cells: basic biology and clinical utility [see comments] Szilvassy SJ, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):3–17 (184 ref.) . Comment in: Biol Blood Marrow Transplant 1996 Feb;2(1):1–2.

What risk of inducing GVHD is associated with allogeneic grafts of PBPC as compared to bone marrow? [letter] van Bekkum DW. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):107

The significance of tumor contamination in the bone marrow from high-risk primary breast cancer patients treated with high-dose chemotherapy and hematopoietic support. Vredenburgh JJ, et al. **Biol Blood Marrow Transplant** 1997 Jun;3(2):91–7

High-dose cyclophosphamide, carmustine, and etoposide with autologous transplantation in Hodgkin's disease: a prognostic model for treatment outcomes. Wheeler C, et al. **Biol Blood Marrow Transplant** 1997 Jun;3(2):98–106

Strategies for hematopoietic stem cell gene therapy: insights from computer simulation studies. Abkowitz JL, et al. **Blood** 1997 May 1;89(9):3192–8

Allogeneic blood stem cell transplantation: considerations for donors [editorial] Anderlini P, et al. **Blood** 1997 Aug 1; 90(3):903–8

Stem cell transplantation for secondary acute myeloid leukemia: evaluation of transplantation as initial therapy or following induction chemotherapy. Anderson JE, et al. **Blood** 1997 Apr 1;89(7):2578–85 (23 ref.)

Superiority of tandem autologous transplantation over standard therapy for previously untreated multiple myeloma. Barlogie B, et al. **Blood** 1997 Feb 1;89(3):789–93

Inhibition of human immunodeficiency virus-1 (HIV-1) replication after transduction of granulocyte colony-stimulating factor-mobilized CD34+ cells from HIV-1-infected donors using retroviral vectors containing anti-HIV-1 genes. Bauer G, et al. **Blood** 1997 Apr 1; 89(7):2259–67

Allogeneic peripheral blood stem cell transplantation in patients with advanced hematologic malignancies: a retrospective comparison with marrow transplantation. Bensinger WI, et al. **Blood** 1996 Oct 1;88(7):2794–800

Transplantation of allogeneic CD34+ peripheral blood stem cells in patients with advanced hematologic malignancy. Bensinger WI, et al. **Blood** 1996 Dec 1;88(11):4132–8

Megakaryocytic progenitors can be generated ex vivo and safely administered to autologous peripheral blood progenitor cell transplant recipients. Bertolini F, et al. **Blood** 1997 Apr 15;89(8):2679–88

Allogeneic bone marrow transplantation versus autologous stem cell transplantation in multiple myeloma: a retrospective case-matched study from the European Group for Blood and Marrow Transplantation. Björkstrand BB, et al. **Blood** 1996 Dec 15;88(12):4711–8

Kinetic evidence of the regeneration of multilineage hematopoiesis from primitive cells in normal human bone marrow transplanted into immunodeficient mice. Cashman JD, et al. **Blood** 1997 Jun 15;89(12):4307–16

Sustained, retransplantable, multilineage engraftment of highly purified adult human bone marrow stem cells in vivo. Civin CI, et al. **Blood** 1996 Dec 1;88(11):4102–9

Dose-intensive melphalan with blood stem cell support for the treatment of AL amyloidosis: one-year follow-up in five patients. Comenzo RL, et al. **Blood** 1996 Oct 1; 88(7):2801–6

Molecular monitoring of minimal residual disease in follicular and mantle cell non-Hodgkin's lymphomas treated with high-dose chemotherapy and peripheral blood progenitor cell autografting. Corradini P, et al. **Blood** 1997 Jan 15; 89(2):724–31

Randomized trial of autologous filgrastim-primed bone marrow transplantation versus filgrastim-mobilized peripheral blood stem cell transplantation in lymphoma patients. Damiani D, et al. **Blood** 1997 Jul 1;90(1):36–42

Transplantation and gene transfer of the human glucocerebrosidase gene into immunoselected primate CD34+Thy-1+ cells. Donahue RE, et al. **Blood** 1996 Dec 1;88(11):4166–72

Long-term maintenance of hematopoiesis in irradiated mice by retrovirally transduced peripheral blood stem cells. Drize N, et al. **Blood** 1997 Mar 1;89(5):1811–7

Retroviral gene transduction of adult peripheral blood or marrow-derived CD34+ cells for six hours without growth factors or on autologous stroma does not improve marking efficiency assessed in vivo. Emmons RV, et al. **Blood** 1997 Jun 1;89(11):4040–6

Early recurrence or persistence of autoimmune diseases after unmanipulated autologous stem cell transplantation [see comments] Euler HH, et al. **Blood** 1996 Nov 1;88(9):3621–5 . Comment in: Blood 1997 Jun 15;89(12):4659.

Differential maintenance of primitive human SCID-repopulating cells, clonogenic progenitors, and long-term culture-initiating cells after incubation on human bone marrow stromal cells. Gan OI, et al. **Blood** 1997 Jul 15;90(2):641–50

Engraftment of allogeneic hematopoietic progenitor cells with purine analog-containing chemotherapy: harnessing graft-versus-leukemia without myeloablative therapy. Giralt S, et al. **Blood** 1997 Jun 15;89(12):4531–6

Allogeneic peripheral blood progenitor cell transplantation in a murine model: evidence for an improved

graft-versus-leukemia effect. Glass B, et al. **Blood** 1997 Aug 15;90(4):1694-700

Quantitative and cell-cycle differences in progenitor cells mobilized by recombinant human interleukin-7 and recombinant human granulocyte colony-stimulating factor. Grzegorzewski KJ, et al. **Blood** 1996 Dec 1;88(11):4139-48

Engraftment and development of human CD34(+)-enriched cells from umbilical cord blood in NOD/LtSz-scid/scid mice. Hogan CJ, et al. **Blood** 1997 Jul 1;90(1):85-96

High-dose therapy and autologous hematopoietic progenitor cell transplantation for recurrent or refractory Hodgkin's disease: analysis of the Stanford University results and prognostic indices. Horning SJ, et al. **Blood** 1997 Feb 1; 89(3):801-13

Cytokine-facilitated transduction leads to low-level engraftment in nonablated hosts. Kittler EL, et al. **Blood** 1997 Jul 15;90(2):865-72

Candida parapsilopsis fungemias in bone marrow transplant recipients: implications for azole prophylactic therapy [letter; comment] López-Jiménez J, et al. **Blood** 1997 May 1;89(9):3491-2. Comment on: Blood 1996 Jan 15;87(2):838-9.

Flt-3 ligand synergizes with granulocyte colony-stimulating factor to increase neutrophil numbers and to mobilize peripheral blood stem cells with long-term repopulating potential. Molineux G, et al. **Blood** 1997 Jun 1; 89(11):3998-4004

In vitro maintenance of highly purified, transplantable hematopoietic stem cells. Moore KA, et al. **Blood** 1997 Jun 15;89(12):4337-47

Immunotherapy with recombinant human interleukin-2 and recombinant interferon-alpha in lymphoma patients postautologous marrow or stem cell transplantation. Nagler A, et al. **Blood** 1997 Jun 1;89(11):3951-9

Potential and distribution of transplanted hematopoietic stem cells in a nonablated mouse model. Nilsson SK, et al. **Blood** 1997 Jun 1;89(11):4013-20

Improved immune reconstitution after allotransplantation of peripheral blood stem cells instead of bone marrow [see comments] Ottinger HD, et al. **Blood** 1996 Oct 1; 88(7):2775-9. Comment in: Blood 1997 May 15;89(10):3891-3.

Evidence of both ontogeny and transplant dose-regulated expansion of hematopoietic stem cells in vivo. Pawliuk R, et al. **Blood** 1996 Oct 15;88(8):2852-8

Phenotype and function of human hematopoietic cells engrafting immune-deficient CB17-severe combined immunodeficiency mice and nonobese diabetic-severe combined immunodeficiency mice after transplantation of human cord blood mononuclear cells. Pflumio F, et al. **Blood** 1996 Nov 15;88(10):3731-40

Interleukin-7 is a critical growth factor in early human T-cell development. Plum J, et al. **Blood** 1996 Dec 1; 88(11):4239-45

Highly sensitive chemiluminescent method for the detection of maternal cell contamination in human cord blood stored for allotransplantation: the experience of the Milano cord blood bank [letter] Poli F, et al. **Blood** 1997 Apr 15; 89(8):3061-2

Itraconazole more bioavailable in solution [letter] Prentice AG, et al. **Blood** 1996 Nov 1;88(9):3662-3

Cytomegalovirus-specific T-cell immunity in recipients of autologous peripheral blood stem cell or bone marrow transplants. Reusser P, et al. **Blood** 1997 May 15; 89(10):3873-9

A murine model for human cord blood transplantation: near-term fetal and neonatal peripheral blood cells can achieve long-term bone marrow engraftment in sublethally irradiated adult recipients. Scaradavou A, et al. **Blood** 1997 Feb 1;89(3):1089-99

Effect of CD34+ selection and various schedules of stem cell reinfusion and granulocyte colony-stimulating factor priming on hematopoietic recovery after high-dose chemotherapy for breast cancer. Somlo G, et al. **Blood** 1997 Mar 1;89(5):1521-8

Improved reconstitution of CD4 T cells and B cells but worsened reconstitution of serum IgG levels after allogeneic transplantation of blood stem cells instead of marrow [letter; comment] Storek J, et al. **Blood** 1997 May 15;89(10):3891-3. Comment on: Blood 1996 Oct 1;88(7):2775-9.

Hematopoietic stem cell-based gene therapy for acquired immunodeficiency syndrome: efficient transduction and expression of RevM10 in myeloid cells in vivo and in vitro. Su L, et al. **Blood** 1997 Apr 1;89(7):2283-90

Partially differentiated ex vivo expanded cells accelerate hematologic recovery in myeloablated mice transplanted with highly enriched long-term repopulating stem cells. Szilvassy SJ, et al. **Blood** 1996 Nov 1;88(9):3642-53

Autologous stem cell transplantation: exogenous granulocyte colony-stimulating factor or granulocyte-macrophage colony-stimulating factor modulate the endogenous cytokine levels [letter] Testa U, et al. **Blood** 1997 Apr 1; 89(7):2615-7

The biology and clinical uses of blood stem cells. To LB, et al. **Blood** 1997 Apr 1;89(7):2233-58 (290 ref.)

Cycle initiation and colony formation in culture by murine marrow cells with long-term reconstituting potential in vivo. Trevisan M, et al. **Blood** 1996 Dec 1;88(11):4149-58

The unexpected G0/G1 cell cycle status of mobilized hematopoietic stem cells from peripheral blood. Uchida N, et al. **Blood** 1997 Jan 15;89(2):465-72

Rapid engraftment without significant graft-versus-host disease after allogeneic transplantation of CD34+ selected cells from peripheral blood. Urbano-Ispizua A, et al. **Blood** 1997 Jun 1;89(11):3967-73

Engraftment of embryonic hematopoietic cells in conditioned newborn recipients. Yoder MC, et al. **Blood** 1997 Mar 15; 89(6):2176-83

Long-term hematopoietic culture-initiating cells are more abundant in mobilized peripheral blood grafts than in bone marrow but have a more limited ex vivo expansion potential. Srour EF, et al. **Blood Cells Mol Dis** 1996; 22(1):68-81

Ex vivo expansion of haemopoietic progenitor cells. Alcorn MJ, et al. **Blood Rev** 1996 Sep;10(3):167-76 (80 ref.)

Mobilization and selection of CD34-positive hematopoietic progenitors. Cagnoni PJ, et al. **Blood Rev** 1996 Mar; 10(1):1-7 (69 ref.)

Gene-marking and haemopoietic stem-cell transplantation. Heslop HE, et al. **Blood Rev** 1995 Dec;9(4):220-5 (39 ref.)

ABC of clinical haematology. Bone marrow and stem cell transplantation. Duncombe A. **BMJ** 1997 Apr 19; 314(7088):1179-82 (0 ref.)

High-dose chemotherapy and stem cell transplantation in solid tumors. Proceedings of a meeting. Berlin, Germany, 27-28 April 1996. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S1-74

22nd Annual meeting of the EBMT and 12th meeting of the Nurses Group. Vienna, Austria, March 3-7, 1996. Abstracts. **Bone Marrow Transplant** 1996 Mar;17 Suppl 1:S1-188

Advances in CML-Therapy. Interferon and Autografting 4th International Workshop. Proceedings. Wachenburg/Weinheim, Germany, 23-24 June 1995. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S1-74

23rd Annual meeting of the European Group for Blood and Marrow Transplantation and 13th meeting of the Nurses Group. Aix-les-Bains, France, March 23-27, 1997. Abstracts. **Bone Marrow Transplant** 1997 Mar;19 Suppl 1:S1-259

Restoration of T and NK cell function in GM-CSF mobilized stem cell products from breast cancer patients by monocyte depletion. Ageitos AG, et al. **Bone Marrow Transplant** 1997 Jul;20(2):117-23

Comparison of peripheral blood progenitor cell mobilization in patients with multiple myeloma: high-dose cyclophosphamide plus GM-CSF vs G-CSF alone. Alegre A, et al. **Bone Marrow Transplant** 1997 Aug;20(3):211-7

Quinton-Mahurkar catheter as short-term central venous access for PBSC collection: single-center experience of 370 aphereses in 110 patients. Alegre A, et al. **Bone Marrow Transplant** 1996 Nov;18(5):865-9

Hematopoietic potential of IL-2-cultured peripheral blood stem cells from breast cancer patients. Areman EM, et al. **Bone Marrow Transplant** 1996 Sep;18(3):521-5

Lenograstim administration to HLA-identical donor-recipient pairs to accelerate marrow recovery post-transplant. Atkinson K, et al. **Bone Marrow Transplant** 1997 Jan;19(1):15-21

Phase I-II study of high-dose busulfan and cyclophosphamide followed by autologous peripheral blood stem cell transplantation for hematological malignancies: toxicities and hematopoietic recovery. Ballester OF, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):9-14

An acute cerebellar syndrome following high-dose chemotherapy and a blood cell autotransplant. Barnard K, et al. **Bone Marrow Transplant** 1997 Jul;20(1):87-8

High-dose busulfan, melphalan, thiotepa and peripheral blood stem cell infusion for the treatment of metastatic breast cancer. Bensinger WI, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1183-9

Syngeneic marrow transplantation in patients with multiple myeloma. Bensinger WI, et al. **Bone Marrow Transplant** 1996 Sep;18(3):527-31

Long-term engraftment failure after marrow ablation and autologous hematopoietic reconstitution: differences between peripheral blood stem cell and bone marrow recipients. Bentley SA, et al. **Bone Marrow Transplant** 1997 Mar;19(6):557-63

Feasibility of a PB CD34+ cell transplantation procedure using standard leukapheresis products in very small children. Berger M, et al. **Bone Marrow Transplant** 1997 Aug;20(3):191-8

A new 'two step' procedure for 4.5 log depletion of T and B cells in allogeneic transplantation and of neoplastic cells in autologous transplantation. Bertolini F, et al. **Bone Marrow Transplant** 1997 Mar;19(6):615-9

G-CSF post-autologous progenitor cell transplantation: a randomized study of 5, 10, and 16 micrograms/kg/day. Bolwell B, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):215-9

Successful hematopoietic reconstitution by transplantation of umbilical cord blood cells in a transfusion-dependent child with Diamond-Blackfan anemia. Bonno M, et al. **Bone Marrow Transplant** 1997 Jan;19(1):83-5

Mobilization of peripheral stem cells with intensive chemotherapy (ICE regimen) and G-CSF in chronic myeloid leukemia. Boqué C, et al. **Bone Marrow Transplant** 1996 Nov;18(5):879-84

Prognostic factors for survival after high-dose therapy and autologous stem cell transplantation for patients with relapsing Hodgkin's disease: analysis of 280 patients from the French registry. Société Française de Greffe de Moëlle. Brice P, et al. **Bone Marrow Transplant** 1997 Jul;20(1):21-6

Ex vivo manipulations of CD34+ peripheral blood progenitor cells. Brugger W, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S5-7 (25 ref.)

High-dose fractionated total-body irradiation, etoposide and cyclophosphamide for treatment of malignant lymphoma: comparison of autologous bone marrow and peripheral blood stem cells. Brunvand MW, et al. **Bone Marrow Transplant** 1996 Jul;18(1):131-41

Myeloablative therapy, stem cell rescue and gene transfer in advanced Ewing tumors. Burdach S, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S67-8

High-dose chemotherapy with AHPCS for the treatment of breast cancer. The University of Colorado results. Cagnoni PJ, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S26-9 (25 ref.)

Allogeneic peripheral blood stem cell transplantation in the treatment of leukemia in China [letter] Cao LX, et al. **Bone Marrow Transplant** 1997 Feb;19(4):403-4

Antibody responses to tetanus toxoid and Haemophilus influenzae type b conjugate vaccines following autologous peripheral blood stem cell transplantation (PBSCT). Chan CY, et al. **Bone Marrow Transplant** 1997 Jul;20(1):33-8

Granulocyte-macrophage colony-stimulating factor accelerates hematopoietic recovery after autologous bone marrow or peripheral blood progenitor cell transplantation and high-dose chemotherapy for lymphoma. Colombat P, et al. **Bone Marrow Transplant** 1996 Aug;18(2):293-9

Erythroid burst-forming units (BFU-E) predict hematopoietic recovery after peripheral blood progenitor cell transplantation in patients with advanced breast cancer. Cooper BW, et al. **Bone Marrow Transplant** 1997 Jun; 19(11):1089-94

Autologous and allogeneic transplantation for multiple myeloma at a single centre. Couban S, et al. **Bone Marrow Transplant** 1997 Apr;19(8):783-9

High-dose chemotherapy and autologous stem cell transplantation in advanced epithelial ovarian cancer. Cure H, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S34-5

Outpatient total body irradiation for pediatric patients undergoing stem cell transplantation. Dagher R, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1065-7

G-CSF primed peripheral blood progenitor cells (PBPC) autotransplantation in stage IV Neuroblastoma and poor risk solid tumors. Dallorso S, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:182-4

Autologous bone marrow transplantation for patients with acute myeloblastic leukemia in relapse after autologous blood stem cell transplantation. de la Rubia J, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1167-73

The use of an expanded circulating hematopoietic progenitor cell pool associated with bone marrow fibrosis for the support of autologous transplantation in IgD multiple myeloma. de la Serna J, et al. **Bone Marrow Transplant** 1997 May;19(10):1033-6

Busulfan and cyclophosphamide (BU/CY2) as preparative regimen for patients with lymphoma. de Magalhaes-Silverman M, et al. **Bone Marrow Transplant** 1997 Apr;19(8):777-81

High-dose busulfan and cyclophosphamide followed by autologous transplantation in patients with advanced breast cancer. Demirer T, et al. **Bone Marrow Transplant** 1996 May;17(5):769-74

Factors influencing collection of peripheral blood stem cells in patients with multiple myeloma. Demirer T, et al. **Bone Marrow Transplant** 1996 Jun;17(6):937-41

Pediatric experience with autologous peripheral blood progenitor cell transplantation: influence of CD34+ cell dose in engraftment kinetics. Diaz MA, et al. **Bone Marrow Transplant** 1996 Oct;18(4):699-703

Benefits of blood cell transplant cryopreservation with oxypolygelatine (Gelifundol) plasma substitute. Di Nicola M, et al. **Bone Marrow Transplant** 1996 Sep;18(3):619-23

Elimination of bcl-2-IgH-positive follicular lymphoma cells from blood transplants with high recovery of hematopoietic progenitors by the miltenyi CD34+ cell sorting system. Di Nicola M, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1117-21

Misoprostol prophylaxis for high-dose chemotherapy-induced mucositis: a randomized double-blind study. Dueñas-Gonzalez A, et al. **Bone Marrow Transplant** 1996 May;17(5):809-12

Increased levels of megakaryocyte progenitors in peripheral blood mobilised by chemotherapy and/or haemopoietic growth factor protocols. Dyson PG, et al. **Bone Marrow Transplant** 1996 Oct;18(4):705-12

Molecular studies of chimerism and minimal residual disease after allogeneic peripheral blood progenitor cell or bone marrow transplantation. Elmaagacli AH, et al. **Bone Marrow Transplant** 1996 Aug;18(2):397-403

Blood progenitor cell (BPC) mobilization studied in multiple myeloma, solid tumor and non-Hodgkin's lymphoma patients after combination chemotherapy and G-CSF. Engelhardt M, et al. **Bone Marrow Transplant** 1997 Mar; 19(6):529-37

Administration of G-CSF can be delayed after transplantation of autologous G-CSF-primed blood stem cells: a randomized study. Faucher C, et al. **Bone Marrow Transplant** 1996 Apr;17(4):533-6

High-dose BCNU and autologous progenitor cell

transplantation given with intra-arterial cisplatinum and simultaneous radiotherapy in the treatment of high-grade gliomas: benefit for selected patients. Fernández-Hidalgo OA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):143-9

Treatment of relapsed non-Hodgkin's lymphoma after BEAM chemotherapy and autologous transplantation by BU/CY chemotherapy and salvage transplantation. Fetscher S, et al. **Bone Marrow Transplant** 1997 Mar; 19(5):527-8

Peripheral blood stem cell support does not accelerate haemopoietic recovery from miniBEAM chemotherapy. Fielding AK, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):507-11

High-dose therapy for the treatment of breast cancer: evaluation of effect of regimen on outcome. Fields KK, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S30-3

The role of high-dose chemotherapy and stem cell rescue in the treatment of malignant brain tumors. Finlay JL. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S1-5 (20 ref.)

Thrombotic microangiopathy as a complication of high-dose chemotherapy for breast cancer. Fisher DC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):193-8

A novel high-dose chemotherapy protocol with autologous hematopoietic rescue in patients with metastatic breast cancer or recurrent non-Hodgkin's lymphoma. Fontelonga A, et al. **Bone Marrow Transplant** 1997 May;19(10):983-8

"Pegase" program for evaluation of autologous stem cell transplantation in breast cancer. SFGM and PEGASE Group. Gisselbrecht C, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S21-3

Fibroblasts retrovirally transfected with the human IL-3 gene initiate and sustain multilineage human hematopoiesis in SCID mice: comparison of CD34-enriched vs CD34-enriched and in vitro expanded grafts. Goan SR, et al. **Bone Marrow Transplant** 1996 Sep;18(3):513-9

Autografting for CML--overview and perspectives. Goldman JM. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S71-4 (17 ref.)

Umbilical cord blood transplantation from unrelated donors in an adult weighing 90 kilograms. Role of immunosuppression in engraftment. González-Barca E, et al. **Bone Marrow Transplant** 1997 Aug;20(4):333-6

The European Group for Blood and Marrow Transplantation (EBMT): a report from the president and the chairmen of the working parties. Gratwohl A, et al. **Bone Marrow Transplant** 1996 Oct;18(4):677-91

GM-CSF accelerates neutrophil recovery after autologous hematopoietic stem cell transplantation. Greenberg P, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1057-64

Cure of X-linked lymphoproliferative disease (XLP) with allogeneic hematopoietic stem cell transplantation (HSCT): report from the XLP registry. Gross TG, et al. **Bone Marrow Transplant** 1996 May;17(5):741-4

Peripheral stem cell mobilization and engraftment in patients over age 60. Guba SC, et al. **Bone Marrow Transplant** 1997 Jul;20(1):1-3

Peripheral blood mononuclear cells from autologous hematopoietic stem cell transplantation recipients produce and respond to IL-12. Guillaume T, et al. **Bone Marrow Transplant** 1996 Oct;18(4):733-9

An incremental response to high-dose therapy in multiple myeloma. Hawkins T, et al. **Bone Marrow Transplant** 1996 Jun;17(6):929-35

CD34 positive PBPC expanded ex vivo may not provide durable engraftment following myeloablative chemoradiotherapy regimens. Holyoake TL, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1095-101

High-dose chemo-radiotherapy cycles for LD small cell lung cancer patients using G-CSF and blood stem cells. Humblet Y, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S36-9

Autologous blood cell transplantation in B-CLL: response to chemotherapy prior to mobilization predicts the stem cell yield. Itälä M, et al. **Bone Marrow Transplant** 1997 Apr;19(7):647-51

Cyclophosphamide 3 g/m2 and G-CSF is an effective and safe outpatient-based PBSC mobilising regimen: a single centre experience [letter] Jindra P, et al. **Bone Marrow Transplant** 1997 Jul;20(1):91-3

What is the most effective treatment of children with severe aplastic anemia who lack a matched sibling donor? Johnson FL. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S39-44 (66 ref.)

In utero haematopoietic stem cell transplantation: current perspectives and future potential. Jones DR, et al. **Bone Marrow Transplant** 1996 Nov;18(5):831-7 (62 ref.)

The effects of a simplified method for cryopreservation and thawing procedures on peripheral blood stem cells. Katayama Y, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):283-7

Allogeneic bone marrow and peripheral stem cell transplantation from a haplo-identical mother and CD34 positive selection for CML. Kato K, et al. **Bone Marrow Transplant** 1996 Aug;18(2):449-52

Haploidentical related umbilical cord blood stem cell transplant in a child with acute non-lymphocytic leukemia. Katzenstein HM, et al. **Bone Marrow Transplant** 1997 Apr; 19(8):765-9

Autologous peripheral blood progenitor cell transplantation for non-Hodgkin's lymphoma with extensive bone marrow necrosis. Khan AM, et al. **Bone Marrow Transplant** 1997 May;19(10):1037-9

Results with high-dose chemotherapy and unpurged autologous stem cell transplantation in 73 patients with chronic myelogenous leukemia: the MD Anderson experience. Khouri IF, et al. **Bone Marrow Transplant** 1996 May;17(5):775-9

Relationship of CD34+ cell dose to early and late hematopoiesis following autologous peripheral blood stem cell transplantation. Kiss JE, et al. **Bone Marrow Transplant** 1997 Feb;19(4):303-10

Factors associated with response to platelet transfusion following hematopoietic stem cell transplantation. Klumpp TR, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1035-41

Phase II study of high-dose cyclophosphamide, etoposide, and carboplatin (CEC) followed by autologous hematopoietic stem cell rescue in women with metastatic or high-risk non-metastatic breast cancer: multivariate analysis of factors affecting survival and engraftment. Klumpp TR, et al. **Bone Marrow Transplant** 1997 Aug; 20(4):273-81

Phenotype of lymphocyte subsets after autologous peripheral blood stem cell transplantation. Koehne G, et al. **Bone Marrow Transplant** 1997 Jan;19(2):149-56

Chemopurging of peripheral blood-derived progenitor cells by alkyl-lysophospholipid and its effect on haematopoietic rescue after high-dose therapy. Koenigsmann MP, et al. **Bone Marrow Transplant** 1996 Sep;18(3):549-57

Gene therapy for hematopoietic and immune disorders. Kohn DB. **Bone Marrow Transplant** 1996 Dec;18 Suppl 3:S55-8 (23 ref.)

Effective high-dose chemotherapy followed by autologous peripheral blood stem cell transplantation in a patient with the aggressive form of cytophagic histiocytic panniculitis. Koizumi K, et al. **Bone Marrow Transplant** 1997 Jul; 20(2):171-3

Do patients with metastatic and recurrent rhabdomyosarcoma benefit from high-dose therapy with hematopoietic rescue? Report of the German/Austrian Pediatric Bone Marrow Transplantation Group. Koscielniak E, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):227-31

Telomere length of blood-derived mononuclear cells from cancer patients during G-CSF-enhanced marrow recovery. Kronenwett R, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S10-4

Detection of cancer cells in peripheral blood stem cells of women with breast cancer by RT-PCR and cell culture. Krüger WH, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S18-20

Unrelated mismatched cord blood transplantation in an adult with secondary AML. Lambertengh Deliliers G, et al. **Bone Marrow Transplant** 1996 Aug;18(2):469-72

Blood cell and bone marrow transplants. Lazarus HM, et al. **Bone Marrow Transplant** 1996 Nov;18(5):839-41

rhGM-CSF vs placebo following rhGM-CSF-mobilized PBPC transplantation: a phase III double-blind randomized trial. Legros M, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):209-13

Cyclosporin A/alpha interferon-induced autologous graft-versus-host disease following peripheral blood stem cell transplant for chronic myeloid leukaemia: a clinico-pathological study. Lim SH, et al. **Bone Marrow Transplant** 1997 Jul;20(1):83-5

Interleukin-12 induced cytolytic activity in lymphocytes from recipients of autologous and allogeneic stem cell transplants. Lindgren CG, et al. **Bone Marrow Transplant** 1997 May;19(9):867-73

Allogeneic peripheral blood stem cell transplant for myelodysplasia after chemotherapy for post-transplant lymphoma in a cardiac transplant recipient at 10 years. Lister J, et al. **Bone Marrow Transplant** 1997 May; 19(9):943-5

Hematopoietic and immune recovery after transplantation of cord blood progenitor cells in children. Locatelli F, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1095-101

Subcutaneous versus intravenous low-dose IL-2 therapy after autologous transplantation: results of a prospective, non-randomized study. López-Jiménez J, et al. **Bone Marrow Transplant** 1997 Mar;19(5):429-34

Quality assurance of CD34+ cell estimation in leucapheresis products. Lumley MA, et al. **Bone Marrow Transplant** 1996 Oct;18(4):791-6

Peripheral blood progenitor cell transplantation: a single centre experience comparing two mobilisation regimens in 67 patients. Mahendra P, et al. **Bone Marrow Transplant** 1996 Apr;17(4):503-7 (14 ref.)

High-dose therapy and autologous stem cell rescue for poor risk and refractory lymphoma: a single centre experience of 123 patients. Mahendra P, et al. **Bone Marrow Transplant** 1996 Jun;17(6):973-8

Successful engraftment of allogeneic PBSC after conditioning with busulfan alone. Majolino I, et al. **Bone Marrow Transplant** 1997 Mar;19(6):621-3

Peripheral blood stem cells for allogeneic transplantation. Majolino I, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:171-4 (23 ref.)

Mobilization of peripheral blood progenitor cells by cyclophosphamide and rhGM-CSF in multiple myeloma. Martínez E, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):1-7

Rapid progression of flat warts in a patient with malignant lymphoma after PBSCT. Maruyama F, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1009-11

Unrelated peripheral blood stem cell transplantation for Fanconi anemia. Massumoto C, et al. **Bone Marrow Transplant** 1997 Feb;19(3):299-300

High-dose chemotherapy with carboplatin, cyclophosphamide and etoposide and autologous transplantation for multiple myeloma relapsing after a previous transplant. Mehta J, et al. **Bone Marrow Transplant** 1997 Jul;20(2):113-6

Factors affecting engraftment and hematopoietic recovery after unpurged autografting in acute leukemia. Mehta J, et al. **Bone Marrow Transplant** 1996 Aug;18(2):319-24

High-dose chemotherapy and autologous stem cell support for patients with malignant melanoma. Meisenberg B. **Bone Marrow Transplant** 1996 Jun;17(6):903-6 (25 ref.)

Mobilized peripheral blood progenitor cells (PBPC) in support of tandem cycles of high-dose chemotherapy (HDC). Meisenberg BR, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1087-93

Allogeneic peripheral blood stem cell transplantation for haematological malignancies--an analysis of kinetics of engraftment and GVHD risk. Miflin G, et al. **Bone Marrow Transplant** 1997 Jan;19(1):9-13

Role of CD34+ cells in engraftment after high-dose melphalan in multiple myeloma patients given peripheral blood stem cell rescue. Millar BC, et al. **Bone Marrow Transplant** 1996 Nov;18(5):871-8

Immunologic phenotype and function in human bone marrow, blood stem cells and umbilical cord blood. Mills KC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):53-61

Target value tailored (TVT) apheresis approach for blood progenitor cell collection after high-dose chemotherapy and rh-G-CSF. Mitterer M, et al. **Bone Marrow Transplant** 1996 Sep;18(3):611-7

Tumor contamination in stem cell products from patients with neuroblastoma and breast cancer. Moss TJ. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S17

Prolonged resolution of hemophagocytic lymphohistiocytosis following myeloablative chemotherapy and subsequent autologous peripheral blood stem cell transplantation. Ohga S, et al. **Bone Marrow Transplant** 1997 Mar;19(6):633-5

Prolonged thrombocytopenia after administration of granulocyte colony-stimulating factor and leukapheresis in a donor for allogeneic peripheral blood stem cell transplantation [letter] Okamoto S, et al. **Bone Marrow Transplant** 1996 Aug;18(2):482-3

Autologous peripheral blood stem cell transplantation in a patient with previous invasive middle ear mucormycosis. Olalla I, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1183-4

G-CSF (filgrastim)-stimulated whole blood kept unprocessed at 4 degrees C does support a BEAM-like regimen in bad-risk lymphoma. Ossenkoppele GJ, et al. **Bone Marrow Transplant** 1996 Aug;18(2):427-31

Multicyclic, dose-intensive chemotherapy supported by hemopoietic progenitors in refractory myeloma patients. Palumbo A, et al. **Bone Marrow Transplant** 1997 Jan; 19(1):23-9

Cyclosporine-induced autologous graft-versus-host disease following autologous blood stem cell transplantation for lymphoma. Pati AR, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1081-3

Sequential high-dose ICE chemotherapy with circulating progenitor cells (CPC) in small cell lung cancer: an EBMT study. Perey L, et al. **Bone Marrow Transplant** 1996 Sep; 18 Suppl 1:S40-3

Antifungal effects of yeast-derived rhu-GM-CSF in patients receiving high-dose chemotherapy given with or without autologous stem cell transplantation: a retrospective analysis. Peters BG, et al. **Bone Marrow Transplant** 1996 Jul;18(1):93-102 (60 ref.)

High-dose chemotherapy as salvage treatment for germ cell tumors. The ongoing IT94 study. Pico JL, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S63-6 (31 ref.)

The administration of growth factors post-PBPC transplantation abrogates the dose-effect of CFU-GM on the rate of PMN recovery [letter] Pierelli L, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1189-90

Allogeneic blood stem cell transplantation in advanced hematologic cancers. Przepiorka D, et al. **Bone Marrow Transplant** 1997 Mar;19(5):455-60

Chimerism after allogeneic hematopoietic cell transplantation in childhood acute lymphoblastic leukemia. Ramírez M, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1161-5

Clinical evidence for an engraftment syndrome associated with early and steep neutrophil recovery after autologous blood stem cell transplantation. Ravoet C, et al. **Bone Marrow Transplant** 1996 Nov;18(5):943-7

Peripheral blood stem cell transplantation in a multiple myeloma patient with end-stage renal failure. Rebibou JM, et al. **Bone Marrow Transplant** 1997 Jul;20(1):63-5

Successful engraftment after primary graft failure in aplastic anemia using G-CSF mobilized peripheral stem cell transfusions. Redei I, et al. **Bone Marrow Transplant** 1997 Jan;19(2):175-7

High-dose chemotherapy with autologous stem cell transplantation is feasible and safe in a regional hospital. A 6-year experience in southern Switzerland. Regazzoni S, et al. **Bone Marrow Transplant** 1997 Jan;19(1):3-7

Incidence of relapse following blood stem cell transplantation for acute myeloid leukemia in first remission [letter;

comment] Reiffers J. **Bone Marrow Transplant** 1996 May; 17(5):899–901. Comment on: Bone Marrow Transplant 1995 Apr;15(4):652–3.

Measurement of reticulated platelets following peripheral blood progenitor cell and bone marrow transplantation: implications for marrow reconstitution and the use of thrombopoietin. Richards EM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1029–33

Peripheral blood stem cells mobilized from patients with acute myeloid leukaemia have different platelet repopulating abilities compared with those mobilized from patients with other diseases. Roberts MM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):41–5

Interleukin-2 after autologous stem cell transplantation for hematologic malignancy: a phase I/II study. Robinson N, et al. **Bone Marrow Transplant** 1997 Mar;19(5):435–42

Ocular toxicity following high dose chemotherapy and autologous transplant. Rubin P, et al. **Bone Marrow Transplant** 1996 Jul;18(1):253–6

Second allogeneic transplants for leukemia using blood instead of bone marrow as a source of hemopoietic cells. Russell JA, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):501–5

Partially mismatched blood cell transplants for high-risk hematologic malignancy. Russell JA, et al. **Bone Marrow Transplant** 1997 May;19(9):861–6

Allogeneic blood cell transplants for haematological malignancy: preliminary comparison of outcomes with bone marrow transplantation. Russell JA, et al. **Bone Marrow Transplant** 1996 May;17(5):703–8

Effective autologous peripheral blood stem cell transplantation in plasma cell leukemia followed by T-large granular lymphocyte expansion: a case report. Sajeva MR, et al. **Bone Marrow Transplant** 1996 Jul;18(1):225–7

Phase II study of high-dose busulfan, melphalan and thiotepa with autologous peripheral blood stem cell support in patients with malignant disease. Schiffman KS, et al. **Bone Marrow Transplant** 1996 Jun;17(6):943–50

Sequential intermediate high-dose chemotherapy in the primary treatment of poor risk testicular cancer. Schmoll HJ, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S48–9

Value of preapheresis cell counts on PBPC harvest and effect of reinfused cell dose on engraftment. Schwella N, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S8–9

Melphalan combined with a carboplatin dose based on glomerular filtration rate followed by autologous stem cell rescue for children with solid tumours. Shaw PJ, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1043–7

Collection and use of peripheral blood stem cells in young children with refractory solid tumors. Shen V, et al. **Bone Marrow Transplant** 1997 Feb;19(3):197–204

Serum thrombopoietin levels in patients undergoing autologous peripheral blood stem cell transplantation. Shimazaki C, et al. **Bone Marrow Transplant** 1997 Apr; 19(8):771–5

High-dose chemotherapy and ASCR of patients with relapsed or refractory germ cell tumors: long-term follow-up. Siegert W, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S60

Peripheral blood stem cell transplantation for relapsed or refractory aggressive lymphoma in patients over 60 years of age. Stamatoullas A, et al. **Bone Marrow Transplant** 1997 Jan;19(1):31–5

Successful HLA-identical sibling cord blood transplantation in a 6-year-old boy with leukocyte adhesion deficiency syndrome. Starý J, et al. **Bone Marrow Transplant** 1996 Jul;18(1):249–52

The dielectrophoresis enrichment of CD34+ cells from peripheral blood stem cell harvests. Stephens M, et al. **Bone Marrow Transplant** 1996 Oct;18(4):777–82

High-dose melphalan +/- total body irradiation and autologous hematopoietic stem cell rescue for adult patients with Ewing's sarcoma or peripheral neuroectodermal tumor. Stewart DA, et al. **Bone Marrow Transplant** 1996 Aug;18(2):315–8

Autologous stem cell transplantation for poor prognosis Hodgkin's disease in first complete remission: a retrospective study from the Spanish GEL-TAMO cooperative group. Sureda A, et al. **Bone Marrow Transplant** 1997 Aug;20(4):283–8

Characterization, quantitation and mobilization of early hematopoietic progenitors: implications for transplantation. Sutherland HJ, et al. **Bone Marrow Transplant** 1996 Sep; 18 Suppl 1:S1–4 (27 ref.)

The important balance between cytokines derived from type 1 and type 2 helper T cells in the control of graft-versus-host disease. Tanaka J, et al. **Bone Marrow Transplant** 1997 Mar;19(6):571–6

Separation of chemotherapy plus G-CSF-mobilized peripheral blood mononuclear cells by counterflow centrifugal elutriation: in vitro characterization of two different CD34+ cell populations. Teofili L, et al. **Bone Marrow Transplant** 1996 Aug;18(2):421–5

Results of a pilot study of 40 patients using high-dose therapy with hematopoietic rescue after standard-dose adjuvant therapy for high-risk breast cancer. Tomás JF, et al. **Bone Marrow Transplant** 1997 Feb;19(4):331–6

Treatment intensification which includes high-dose induction improves survival of lung carcinoma patients treated by high-dose chemotherapy with hematopoietic progenitor cell rescue but does not prevent high rate of relapses. Tomeczko J, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S44–7

Complete remission following donor PBSC after low-dose cytarabine chemotherapy for early relapse of acute myelogenous leukemia after allogeneic stem cell transplantation. Trenschel R, et al. **Bone Marrow Transplant** 1997 Feb;19(4):381–3

Blood and marrow stem cell transplants in auto-immune disease: a consensus report written on behalf of the European League against Rheumatism (EULAR) and the European Group for Blood and Marrow Transplantation (EBMT). Tyndall A, et al. **Bone Marrow Transplant** 1997 Apr;19(7):643–5 (0 ref.)

Allogeneic peripheral blood progenitor cell transplantation: analysis of short-term engraftment and acute GVHD incidence in 33 cases. allo-PBPCT Spanish Group. Urbano-Ispizua A, et al. **Bone Marrow Transplant** 1996 Jul;18(1):35–40

A blood stem cell transplant in a person with concomitant Hodgkin disease and testicular carcinoma. Varterasian ML, et al. **Bone Marrow Transplant** 1997 Apr;19(8):857–8

Preferential sequestration in vitro of BCR/ABL negative hematopoietic progenitor cells among cytokine nonresponsive CML marrow CD34+ cells. Veena P, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1213–21

Effect of the in vivo priming regimen for peripheral blood stem cells (PBSC) mobilization on in vitro generation of cytotoxic effectors by IL-2 activation of PBSC in a murine model. Verma UN, et al. **Bone Marrow Transplant** 1997 Feb;19(3):265–73

Quantitative comparison of multiple myeloma tumor contamination in bone marrow harvest and leukapheresis autografts. Vescio RA, et al. **Bone Marrow Transplant** 1996 Jul;18(1):103–10

Cord blood stem cell transplantation for Diamond-Blackfan anemia. Vettenranta K, et al. **Bone Marrow Transplant** 1997 Mar;19(5):507–8

High-dose sequential chemotherapy with stem cell support for non-metastatic breast cancer. Viens P, et al. **Bone Marrow Transplant** 1997 Aug;20(3):199–203

Allogeneic peripheral blood progenitor cell (PBPC) transplantation in children. Villa M, et al. **Bone Marrow Transplant** 1996 Jul;18(1):231–3

Successful collection and transplantation of allogeneic peripheral blood progenitor cells from a very low-weight donor [letter] Villa M, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1025–6

Cytological and cytochemical study of the peripheral blood mononuclear cells in leukapheresis products mobilized with rhG-CSF [letter] Villegas A, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1199

Mobilization of peripheral blood progenitor cells for allogeneic transplantation: efficacy and toxicity of a high-dose rhG-CSF regimen. Waller CF, et al. **Bone Marrow Transplant** 1996 Aug;18(2):279–83

Induction, mobilization of peripheral blood stem cells (PBSC), high-dose chemotherapy and PBSC infusion in patients with untreated stage IV breast cancer: outcomes by intent to treat analyses. Weaver CH, et al. **Bone Marrow Transplant** 1997 Apr;19(7):661–70

Treatment-related mortality in 1000 consecutive patients receiving high-dose chemotherapy and peripheral blood progenitor cell transplantation in community cancer centers. Weaver CH, et al. **Bone Marrow Transplant** 1997 Apr;19(7):671–8

Engraftment and outcomes of patients receiving myeloablative therapy followed by autologous peripheral blood stem cells with a low CD34+ cell content. Weaver CH, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1103–10

High-dose chemotherapy and autologous peripheral blood progenitor cell transplant for the treatment of Hodgkin's disease. Weaver CH, et al. **Bone Marrow Transplant** 1996 May;17(5):715–21

The alkyl-lysophospholipid, ET-18-OCH3 synergistically enhances the Merocyanine 540-mediated photoinactivation of leukemia cells: implications for the extracorporeal purging of autologous hematopoietic stem cells [published erratum appears in Bone Marrow Transplant 1997 Jul;20(1):95] Yamazaki T, et al. **Bone Marrow Transplant** 1997 Jan;19(2):113–9

High dose mitoxantrone with thiotepa, cyclophosphamide and autologous stem cell rescue for high risk stage II and stage III breast cancer. German GABG-4/EH-93-Study. Zander AR, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S24–5

Separation of peripheral blood derived stem cells in children. Zingsem J, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S15–6

Successful cord blood stem cell transplantation for congenital erythropoietic porphyria (Gunther's disease). Zix-Kieffer I, et al. **Bone Marrow Transplant** 1996 Jul;18(1):217–20

High-dose carboplatin, etoposide and melphalan (CEM) with peripheral blood progenitor cell support as late intensification for high-risk cancer: non-haematological, haematological toxicities and role of growth factor administration. Benedetti Panici P, et al. **Br J Cancer** 1997; 75(8):1205–12

High-dose chemotherapy supported by peripheral blood progenitor cells in poor prognosis metastatic breast cancer--phase I/II study. Edinburgh Breast Group. Cameron DA, et al. **Br J Cancer** 1996 Dec;74(12):2013–7

Comparison of marrow vs blood-derived stem cells for autografting in previously untreated multiple myeloma. Raje N, et al. **Br J Cancer** 1997;75(11):1684–9

A study of ovarian cancer patients treated with dose-intensive chemotherapy supported with peripheral blood progenitor cells mobilised by filgrastim and cyclophosphamide. Weaver A, et al. **Br J Cancer** 1996 Dec; 74(11):1821–7

Collection of peripheral blood stem cells from normal donors 60 years of age or older. Anderlini P, et al. **Br J Haematol** 1997 May;97(2):485–7

Thymic function in adults: evidence derived from immune recovery patterns following myeloablative chemotherapy and stem cell infusion. Cavenagh JD, et al. **Br J Haematol** 1997 Jun;97(3):673–6

Circulating thrombopoietin concentrations in thrombocytopenic patients, including cancer patients following chemotherapy, with or without peripheral blood progenitor cell transplantation. Meng YG, et al. **Br J Haematol** 1996 Dec;95(3):535–41

Stem cell mobilization in normal donors for allogeneic transplantation: analysis of safety and factors affecting efficacy. Miflin G, et al. **Br J Haematol** 1996 Nov; 95(2):345–8

Long-term haematological reconstitution following BEAM and autologous transplantation of circulating progenitor cells in non-Hodgkin's lymphoma. Rossi A, et al. **Br J Haematol** 1997 Mar;96(3):620–6

High-dose therapy with peripheral blood stem cell transplantation results in a significant reduction of the haemopoietic progenitor cell compartment. Voso MT, et al. **Br J Haematol** 1996 Sep;94(4):759–66

Blood and marrow stem cell transplants in autoimmune disease. A consensus report written on behalf of the European League Against Rheumatism (EULAR) and the European Group for Blood and Marrow Transplantation (EBMT). Tyndall A, et al. **Br J Rheumatol** 1997 Mar; 36(3):390–2 (16 ref.)

High-dose chemotherapy with autologous stem cell rescue in breast cancer. Dillman RO, et al. **Breast Cancer Res Treat** 1996;37(3):277–89

Immunocytochemical detection of breast cancer cells in marrow and peripheral blood of patients undergoing high dose chemotherapy with autologous stem cell support. Franklin WA, et al. **Breast Cancer Res Treat** 1996; 41(1):1–13

Autologous transplantation for patients with advanced breast cancer with emphasis on bony metastasis. Glück S. **Can J Oncol** 1995 Dec;5 Suppl 1:58–62

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Dec;5 Suppl 1:33–9 (31 ref.)

A phase I/II study of sequential, dose-escalated, high dose ifosfamide plus doxorubicin with peripheral blood stem cell support for the treatment of patients with advanced soft tissue sarcomas. Bokemeyer C, et al. **Cancer** 1997 Oct 1; 80(7):1221–7

Aerobic exercise in the rehabilitation of cancer patients after high dose chemotherapy and autologous peripheral stem cell transplantation. Dimeo FC, et al. **Cancer** 1997 May 1;79(9):1717–22

Endocrine function and bone metabolism 5 years after autologous bone marrow/blood-derived progenitor cell transplantation. Keilholz U, et al. **Cancer** 1997 Apr 15; 79(8):1617–22

High-dose chemotherapy with hematopoietic rescue in breast cancer: from theory to practice. Bezwoda WR. **Cancer Chemother Pharmacol** 1997;40 Suppl:S79–87 (33 ref.)

Phase I/II trial of cure-oriented high-dose chemoradiotherapy with transplantation of CD34+ peripheral blood stem cells purified by the immunomagnetic bead method for refractory hematological malignancies. Nagoya CD34+ PBSCT Study Group. Ogura M, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S51–7

High-dose carboplatin plus paclitaxel with granulocyte colony-stimulating factor and peripheral blood stem-cell support in non-small-cell lung cancer. Shea TC. **Cancer Chemother Pharmacol** 1997;40 Suppl:S74–8

High-dose chemotherapy with autologous hematopoietic stem-cell transplantation in breast cancer. Tokuda Y, et al. **Cancer Chemother Pharmacol** 1997;40 Suppl:S94–9

Transplantation of CD34+ hematopoietic progenitor cells [see comments] Berenson RJ, et al. **Cancer Invest** 1996; 14(6):589–96 (79 ref.). Comment in: Cancer Invest 1996;14(6):640–1.

Blood stem cell transplantation in non-Hodgkin's lymphoma. Bishop MR, et al. **Cancer Invest** 1997;15(2):138–42 (55 ref.)

The role of high-dose chemotherapy with hematopoietic stem cell support in the treatment of patients with epithelial ovarian carcinoma. Hussein AM. **Cancer Invest** 1997; 15(3):288–95 (50 ref.)

Are CD34+ selected cells the better choice for grafting? [editorial; comment] Körbling M. **Cancer Invest** 1996; 14(6):640–1. Comment on: Cancer Invest 1996;14(6):589–96.

Bone marrow transplantation in multiple myeloma. Schlossman RL, et al. **Cancer Invest** 1997;15(1):65–75 (69 ref.)

Autologous stem cell transplantation for the treatment of chronic myelogenous leukemia. Bhatia R, et al. **Cancer Treat Res** 1997;77:357–74 (60 ref.)

HEMATOPOIETIC STEM CELL TRANSPLANTATION

Primitive hematopoietic stem and progenitor cells in human umbilical cord blood: an alternative source of transplantable cells. Broxmeyer HE. **Cancer Treat Res** 1996; 84:139–48 (72 ref.)

Immune ablation and hematopoietic stem cell rescue for severe autoimmune diseases (SADS). Burt RK. **Cancer Treat Res** 1997;77:317–32 (76 ref.)

Ex vivo expansion of hematopoietic stem and progenitor cells for transplantation. LaIuppa JA, et al. **Cancer Treat Res** 1997;77:159–86 (125 ref.)

Umbilical cord blood: an alternative to the transplantation of bone marrow stem cells. Weber–Nordt RM, et al. **Cancer Treat Rev** 1996 Sep;22(5):381–91 (75 ref.)

Culture expanded canine mesenchymal stem cells possess osteochondrogenic potential in vivo and in vitro. Kadiyala S, et al. **Cell Transplant** 1997 Mar–Apr;6(2):125–34

Effect of high–dose chemotherapy on intestinal permeability in humans. Keefe DM, et al. **Clin Sci (Colch)** 1997 Apr; 92(4):385–9

Ceftazidime and ciprofloxacin as empiric therapy in febrile neutropenic patients undergoing hematopoietic stem cell transplantation. Ghazal HH, et al. **Clin Ther** 1997 May–Jun; 19(3):520–6

Report from the International Bone Marrow Transplant Registry and Autologous Blood and Marrow Transplant Registry – North America. Passweg JR, et al. **Clin Transpl** 1995;:117–27

Stem cell manipulation: why and how performing peripheral blood progenitor cell purging. Rizzoli V, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):101–15 (156 ref.)

Phenotype and engraftment potential of cytokine–mobilized peripheral blood mononuclear cells. Mielcarek M, et al. **Curr Opin Hematol** 1997 May;4(3):176–82 (80 ref.)

Graft–versus–host effect after allogeneic hematopoietic stem cell transplantation: GVHD and GVL. Nash RA, et al. **Curr Opin Immunol** 1996 Oct;8(5):674–80 (64 ref.)

Disease, transplantation and regeneration. **Curr Opin Neurobiol** 1996 Oct;6(5):713–40

Neuronal progenitors as tools for cell replacement in the nervous system. Brüstle O, et al. **Curr Opin Neurobiol** 1996 Oct;6(5):688–95 (81 ref.)

Transplantation. **Curr Opin Oncol** 1997 Mar;9(2):B41–7

High–dose chemotherapy for the treatment of breast and ovarian cancer [see comments] Cagnoni PJ, et al. **Curr Opin Oncol** 1997 Mar;9(2):122–5 (32 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

Clinical use of hematopoietic growth factors. Ganser A, et al. **Curr Opin Oncol** 1996 Jul;8(4):265–9 (28 ref.)

Graft–versus–host disease [see comments] Marcellus DC, et al. **Curr Opin Oncol** 1997 Mar;9(2):131–8 (41 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

Autologous stem cell transplantation for solid tumors in children. Ladenstein R, et al. **Curr Opin Pediatr** 1997 Feb; 9(1):55–69 (130 ref.)

Tandem high–dose therapy with ifosfamide, epirubicin, carboplatin and peripheral blood stem cell support is an effective adjuvant treatment for high–risk primary breast cancer. Haas R, et al. **Eur J Cancer** 1997 Mar;33(3):372–8

High–dose melphalan followed by autograft employing non–cryopreserved peripheral blood progenitor cells in children. Jones N, et al. **Eur J Cancer** 1996 Oct; 32A(11):1938–42

Reticulocyte recovery is faster in allogeneic and autologous peripheral blood stem cell transplantation than in bone marrow transplantation [letter] Santamaria A, et al. **Eur J Haematol** 1997 May;58(5):362–4

Salvage treatment of relapsing Wilms' tumour by autologous bone marrow transplantation. Kullendorff CM, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):177–9

Relative to adult marrow, fetal liver repopulates nearly five times more effectively long–term than short–term. Harrison DE, et al. **Exp Hematol** 1997 Apr;25(4):293–7

Lack of efficacy of thrombopoietin and granulocyte colony–stimulating factor after high dose total–body irradiation and autologous stem cell or bone marrow transplantation in rhesus monkeys. Neelis KJ, et al. **Exp Hematol** 1997 Sep;25(10):1094–103

Stem cell transplantation in the normal nonmyeloablated host: relationship between cell dose, schedule, and engraftment. Rao SS, et al. **Exp Hematol** 1997 Feb;25(2):114–21

In utero allogeneic hematopoietic stem cell transplantation to induce tolerance. Hajdu K, et al. **Fetal Diagn Ther** 1996 Jul–Aug;11(4):241–8

Hematopoietic stem cell gene transfer [editorial] Barranger JA. **Gene Ther** 1996 May;3(5):379–80

Complete remission of refractory gestational trophoblastic disease with brain metastases treated with multicycle ifosfamide, carboplatin, and etoposide (ICE) and stem cell rescue. van Besien K, et al. **Gynecol Oncol** 1997 May; 65(2):366–9

Peripheral blood stem cells in acute myeloid leukemia: biology and clinical applications. Aglietta M, et al. **Haematologica** 1996 Jan–Feb;81(1):77–92 (129 ref.)

Allogeneic hematopoietic stem cells from sources other than bone marrow: biological and technical aspects. Bertolini F, et al. **Haematologica** 1997 Mar–Apr;82(2):220–38 (205 ref.)

Peripheral blood stem cell transplantation for the treatment of multiple myeloma: biological and clinical implications. Cappio FC, et al. **Haematologica** 1996 Jul–Aug; 81(4):356–75 (177 ref.)

Lack of efficacy of a double autograft program to prolong survival of chronic myelogenous leukemia patients in blastic transformation. Capria S, et al. **Haematologica** 1996 Jul–Aug;81(4):349–51

Stem cells and stem cell transplantation. Carlo–Stella C, et al. **Haematologica** 1996 Nov–Dec;81(6):573–87 (84 ref.)

Use of granulocyte–macrophage colony–stimulating factor (GM–CSF) in combination with hydroxyurea as post–transplant therapy in chronic myelogenous leukemia patients autografted with unmanipulated hematopoietic cells. Carlo–Stella C, et al. **Haematologica** 1997 May–Jun; 82(3):291–6

When to perform peripheral blood progenitor cell collection in hematological patients? [letter] D'Arena G, et al. **Haematologica** 1997 Jan–Feb;82(1):124–5

Peripheral blood stem cells for allogeneic transplantation. Recommendations from the GITMO 1996. Gruppo Italiano Trapianti di Midollo Osseo. Majolino I, et al. **Haematologica** 1996 Nov–Dec;81(6):529–32

Allogeneic stem cell transplantation for advanced low–grade lymphoproliferative disorders: report of six cases. Martínez C, et al. **Haematologica** 1996 Jul–Aug;81(4):330–4

Fractionated infusions of cryopreserved stem cells may prevent DMSO–induced major cardiac complications in graft recipients. Martino M, et al. **Haematologica** 1996 Jan–Feb;81(1):59–61

Two consecutive courses of rh–G–CSF–mobilized peripheral blood stem cells for primary marrow alloengraftment failure: case report. Martino M, et al. **Haematologica** 1996 Sep–Oct;81(5):464–7

Blood cell transplantation: past, present and future. Boiron JM, et al. **Hematol Cell Ther** 1996 Oct;38(5):399–407 (62 ref.)

Flow cytometry for CD34 determination in hematopoietic grafts. Drénou B. **Hematol Cell Ther** 1996 Dec;38(6):505–12 (59 ref.)

High–dose chemotherapy and autologous hematopoietic stem cell transplantation in patients with second primary malignancies. Fetscher S, et al. **Hematol Cell Ther** 1997 Apr;39(2):79–83

Autologous stem cell transplantation in aggressive non–Hodgkin's lymphoma. Gisselbrecht C. **Hematol Cell Ther** 1996 Aug;38(4):297–304 (43 ref.)

Umbilical cord blood transplant in human. Gluckman E. **Hematol Cell Ther** 1996 Oct;38(5):393–7 (31 ref.)

Allogeneic blood stem cell transplantation: the US experience. Körbling M. **Hematol Cell Ther** 1996 Oct; 38(5):456–7 (11 ref.)

4th Cell therapy workshop. Introduction. Mannoni P. **Hematol Cell Ther** 1996 Apr;38(2):201–3

Peripheral blood stem cell CD34+ autologous transplant in relapsed follicular lymphoma. Marin GH, et al. **Hematol Cell Ther** 1997 Feb;39(1):33–40

Gene transfer applied to the modulation of alloreactivity. Tiberghien P, et al. **Hematol Cell Ther** 1996 Apr; 38(2):221–4 (25 ref.)

Autotransplants in multiple myeloma: pushing the envelope. Jagannath S, et al. **Hematol Oncol Clin North Am** 1997 Apr;11(2):363–81 (58 ref.)

Advances in the treatment of plasma cell diseases. Comenzo RL. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):67–70, 73–4, 79–84 passim (11 ref.)

Use of safety–modified retroviruses to introduce chemotherapy resistance sequences into normal hematopoietic cells for chemoprotection during the therapy of breast cancer: a pilot trial. Deisseroth AB, et al. **Hum Gene Ther** 1996 Feb 10;7(3):401–16

Reconstitution of B cell subsets in Rag deficient mice by transplantation of in vitro differentiated embryonic stem cells. Potocnik AJ, et al. **Immunol Lett** 1997 Jun 1; 57(1–3):131–7

Blood stem cell transplantation: current concepts. Kamble R, et al. **Indian J Med Res** 1997 Jan;105:1–8 (55 ref.)

Applications of hematopoietic stem cells and gene transfer. Huss R. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):147–60 (224 ref.)

Recovery of leukocyte function after super–high–dose chemotherapy with peripheral blood stem cell transplantation in testicular cancer patients. Yamada Y, et al. **Int J Cancer** 1997 Jul 3;72(1):39–42

ACOG committee opinion. Routine storage of umbilical cord blood for potential future transplantation. Number 183, April 1997. Committee on Obstetric Practice. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1997 Aug;58(2):257–9

Allogenic transplantation of mobilized peripheral blood progenitor cells: towards tailored cell therapy. Dreger P, et al. **Int J Hematol** 1997 Jul;66(1):1–11 (89 ref.)

Detection of donor–type alveolar macrophages in transplantation with highly purified CD34+ bone marrow cells [letter] Fujimori Y, et al. **Int J Hematol** 1997 Jul; 66(1):117–9

Study of the collection and separation of umbilical cord blood for use in hematopoietic progenitor cell transplantation. Isoyama K, et al. **Int J Hematol** 1996 Feb;63(2):95–102

The First International Symposium on Allogeneic Peripheral Blood Progenitor Cell Transplantation Geneva, 26–28 October 1995. Kawano Y, et al. **Int J Hematol** 1996 Apr; 63(3):247–50

No CD117 expression on B progenitors in the regenerating bone marrow [letter] Muroi K, et al. **Int J Hematol** 1997 Aug;66(2):245–7

Successful engraftment of sibling cord–blood stem cell transplantation in a child with acute promyelocytic leukemia. Ohnuma K, et al. **Int J Hematol** 1996 Oct; 64(3–4):271–8

Long–term survival and differentiation of human peripheral blood CD34+ cells in SCID mice. Sakamaki S, et al. **Int J Hematol** 1997 Jun;65(4):375–84

G–CSF–induced mobilization of peripheral blood stem cells for allografting: comparative study of daily single versus divided dose of G–CSF. Yano T, et al. **Int J Hematol** 1997 Aug;66(2):169–78

The human/sheep xenograft model: a large animal model of human hematopoiesis. Zanjani ED, et al. **Int J Hematol** 1996 Apr;63(3):179–92 (88 ref.)

Transplanting oligodendrocyte progenitors into the adult CNS. Franklin RJ, et al. **J Anat** 1997 Jan;190 (Pt 1):23–33 (52 ref.)

Pediatric large volume peripheral blood progenitor cell collections from patients under 25 kg: a primer. Gorlin JB, et al. **J Clin Apheresis** 1996;11(4):195–203

Allogeneic peripheral blood stem cell transfusion from human leukocyte antigen–mismatched sibling for the treatment of engraftment failure after bone marrow transplantation for severe aplastic anemia. Takamatsu Y, et al. **J Clin Apheresis** 1997;12(2):100–2

Human fetal liver cells induce colonies in spleen of lethally irradiated mice. Rezzoug F, et al. **J Clin Immunol** 1997 May;17(3):205–11

High–dose chemotherapy with autologous hematopoietic stem–cell support for breast cancer in North America. Antman KH, et al. **J Clin Oncol** 1997 May;15(5):1870–9

Is minimal residual disease in the peripheral–blood stem–cell transplantation of chronic myelogenous leukemia important? [letter] Besa EC. **J Clin Oncol** 1997 Sep; 15(9):3166–7

High–dose therapy with autologous hematopoietic rescue for follicular low–grade non–Hodgkin's lymphoma. Bierman PJ, et al. **J Clin Oncol** 1997 Feb;15(2):445–50

Allogeneic–blood stem–cell collection following mobilization with low–dose granulocyte colony–stimulating factor. Bishop MR, et al. **J Clin Oncol** 1997 Apr;15(4):1601–7

Phase I trial of recombinant fusion protein PIXY321 for mobilization of peripheral–blood cells. Bishop MR, et al. **J Clin Oncol** 1996 Sep;14(9):2521–6

Factors that influence the collection and engraftment of allogeneic peripheral–blood stem cells in patients with hematologic malignancies. Brown RA, et al. **J Clin Oncol** 1997 Sep;15(9):3067–74

Mobilization and transplantation of Philadelphia–negative peripheral–blood progenitor cells early in chronic myelogenous leukemia. Carella AM, et al. **J Clin Oncol** 1997 Apr;15(4):1575–82

Phase I trial of cyclosporine–induced autologous graft–versus–host disease in patients with multiple myeloma undergoing high–dose chemotherapy with autologous stem–cell rescue. Giralt S, et al. **J Clin Oncol** 1997 Feb; 15(2):667–73

High–dose chemotherapy with autologous stem–cell rescue in patients with recurrent and high–risk pediatric brain tumors. Graham ML, et al. **J Clin Oncol** 1997 May; 15(5):1814–23

Phase I pharmacokinetic study of multicycle high–dose carboplatin followed by peripheral–blood stem–cell infusion in patients with cancer. Johansen MJ, et al. **J Clin Oncol** 1997 Apr;15(4):1481–91

High–dose chemotherapy with hematopoietic rescue in patients with stage III to IV ovarian cancer: long–term results [see comments] Legros M, et al. **J Clin Oncol** 1997 Apr;15(4):1302–8. Comment in: J Clin Oncol 1997 Apr;15(4):1291–3.

Peripheral–blood stem–cell transplantation versus autologous bone marrow transplantation in Hodgkin's and non–Hodgkin's lymphomas: a new matched–pair analysis of the European Group for Blood and Marrow Transplantation Registry Data. Lymphoma Working Party of the European Group for Blood and Marrow Transplantation. Majolino I, et al. **J Clin Oncol** 1997 Feb; 15(2):509–17

Treatment of germ cell cancer with two cycles of high–dose ifosfamide, carboplatin, and etoposide with autologous stem–cell support [see comments] Margolin BK, et al. **J Clin Oncol** 1996 Oct;14(10):2631–7. Comment in: J Clin Oncol 1996 Oct;14(10):2625–6.

Outpatient high–dose chemotherapy with autologous stem–cell rescue for hematologic and nonhematologic malignancies. Meisenberg BR, et al. **J Clin Oncol** 1997 Jan; 15(1):11–7

Similar breast cancer cell contamination of single–day peripheral–blood progenitor–cell collections obtained after priming with hematopoietic growth factor alone or after cyclophosphamide followed by growth factor. Passos–Coelho JL, et al. **J Clin Oncol** 1996 Sep; 14(9):2569–75

Hematopoietic recovery after allogeneic blood stem–cell transplantation compared with bone marrow transplantation in patients with hematologic malignancies. Pavletic ZS, et al. **J Clin Oncol** 1997 Apr;15(4):1608–16

Repetitive cycles of cyclophosphamide, thiotepa, and carboplatin intensification with peripheral–blood progenitor cells and filgrastim in advanced breast cancer patients. Shapiro CL, et al. **J Clin Oncol** 1997 Feb; 15(2):674–83

High–dose chemotherapy and stem–cell rescue in the

treatment of high-risk breast cancer: prognostic indicators of progression-free and overall survival. Somlo G, et al. **J Clin Oncol** 1997 Aug;15(8):2882-93

High-dose chemotherapy with autologous transplantation for persistent/relapsed ovarian cancer: a multivariate analysis of survival for 100 consecutively treated patients [see comments] Stiff PJ, et al. **J Clin Oncol** 1997 Apr; 15(4):1309-17. Comment in: J Clin Oncol 1997 Apr;15(4):1291-3.

Intensive sequential chemotherapy with repeated blood stem-cell support for untreated poor-prognosis non-Hodgkin's lymphoma [see comments] Stoppa AM, et al. **J Clin Oncol** 1997 May;15(5):1722-9. Comment in: J Clin Oncol 1997 May;15(5):1713-6.

Adult Burkitt's and Burkitt-like non-Hodgkin's lymphoma--outcome for patients treated with high-dose therapy and autologous stem-cell transplantation in first remission or at relapse: results from the European Group for Blood and Marrow Transplantation. Sweetenham JW, et al. **J Clin Oncol** 1996 Sep;14(9):2465-72

Unique role of cytogenetics in the prognosis of patients with myeloma receiving high-dose therapy and autotransplants. Tricot G, et al. **J Clin Oncol** 1997 Jul;15(7):2659-66

Role of a second transplant in the management of poor-prognosis lymphomas: a report from the European Blood and Bone Marrow Registry. Vandenberghe E, et al. **J Clin Oncol** 1997 Apr;15(4):1595-600

Intensified and high-dose chemotherapy with granulocyte colony-stimulating factor and autologous stem-cell transplantation support as first-line therapy in high-risk diffuse large-cell lymphoma. Vitolo U, et al. **J Clin Oncol** 1997 Feb;15(2):491-8

Single-photon emission computed tomography gallium imaging versus computed tomography: predictive value in patients undergoing high-dose chemotherapy and autologous stem-cell transplantation for non-Hodgkin's lymphoma. Vose JM, et al. **J Clin Oncol** 1996 Sep; 14(9):2473-9

Persistence of hepatic hepatitis B virus after serological clearance of HBsAg with autologous peripheral stem cell transplantation. Lau GK, et al. **J Clin Pathol** 1997 Aug; 50(8):706-8

Impaired stem cell collection by consecutive courses of high-dose mobilizing chemotherapy using cyclophosphamide, etoposide, and G-CSF. Akard LP, et al. **J Hematother** 1996 Jun;5(3):271-7

Characteristics of peripheral blood progenitor cells frozen after 24 hours of liquid storage. Beaujean F, et al. **J Hematother** 1996 Dec;5(6):681-6

Tumor cell contamination of bone marrow harvest products: clinical consequences in a cohort of advanced-stage breast cancer patients undergoing high-dose chemotherapy. Brockstein BE, et al. **J Hematother** 1996 Dec;5(6):617-24

Allogeneic peripheral blood progenitor cells: current status and future directions. Dreger P, et al. **J Hematother** 1996 Aug;5(4):331-7 (65 ref.)

Autologous transplantation of blood stem cells mobilized with filgrastim alone in 93 patients with malignancies: the number of CD34+ cells reinfused is the only factor predicting both granulocyte and platelet recovery. Faucher C, et al. **J Hematother** 1996 Dec;5(6):663-70

PBSC collection following 67Ga infusion for a nuclear medicine study. Gorlin JB, et al. **J Hematother** 1996 Aug; 5(4):321-2

Positive selection and transplantation of peripheral CD34+ progenitor cells: feasibility and purging efficacy in pediatric patients with neuroblastoma. Handgretinger R, et al. **J Hematother** 1997 Jun;6(3):235-42

Thrombocytopenia after high-dose chemotherapy and autologous stem cell transplantation: an unresolved problem and possible approaches to resolve it. Hassan HT, et al. **J Hematother** 1996 Aug;5(4):407-14 (57 ref.)

Immunomagnetic purging of lymphoma cells from autografts. Kvalheim G, et al. **J Hematother** 1996 Oct;5(5):561-2

Standardization of the CFU-GM assay using hematopoietic growth factors. Lewis ID, et al. **J Hematother** 1996 Dec; 5(6):625-30

Ex vivo expansion of hematopoietic progenitors from CD34+ cells selected from leukapheresis products of lymphoma and myeloma patients: feasibility and enhancement by fibronectin. Mahé B, et al. **J Hematother** 1996 Dec;5(6):671-9

Harvest quality and factors affecting collection and engraftment of CD34+ cells in patients with breast cancer scheduled for high-dose chemotherapy and peripheral blood progenitor cell support. Papadopoulos KP, et al. **J Hematother** 1997 Feb;6(1):61-8

The contribution of animal models to the development of treatments for hematologic recovery following myeloablative therapy: a review. Schneidkraut MJ, et al. **J Hematother** 1996 Dec;5(6):631-46 (226 ref.)

Immunocytochemical detection of breast cancer cells: a comparison of three attachment factors. Theocharous P, et al. **J Hematother** 1997 Feb;6(1):21-9

Myeloma stem cells in autografting in multiple myeloma. To LB, et al. **J Hematother** 1996 Oct;5(5):557-9 (14 ref.)

DNA-based HLA typing for cord blood stem cell transplantation. Trachtenberg EA, et al. **J Hematother** 1996 Jun;5(3):295-300 (41 ref.)

Human-mouse xenografts in stem cell research. Wermann K, et al. **J Hematother** 1996 Aug;5(4):379-90 (69 ref.)

Effect of hypothermia on the merocyanine 540-mediated purging of hematopoietic cells. Yamazaki T, et al. **J Hematother** 1997 Feb;6(1):31-9

Phagocytosis and burst activity of granulocytes and monocytes after stem cell transplantation. Miyagawa B, et al. **J Lab Clin Med** 1997 Jun;129(6):634-7

High dose chemotherapy with autologous stem cell rescue for patients with medulloblastoma. Dunkel IJ, et al. **J Neurooncol** 1996 Jul;29(1):69-74 (20 ref.)

Should children with hemoglobinopathies be offered unrelated-donor cord blood stem cell transplantation? [editorial; comment] Harris RE, et al. **J Pediatr** 1997 May; 130(5):689-91. Comment on: J Pediatr 1997 May;130(5):695-703.

Umbilical cord blood stem cells: application for the treatment of patients with hemoglobinopathies [see comments] Kelly P, et al. **J Pediatr** 1997 May;130(5):695-703 (83 ref.). Comment in: J Pediatr 1997 May;130(5):689-91.

Placental blood transplantation and autologous banking--caveat emptor. Johnson FL. **J Pediatr Hematol Oncol** 1997 May-Jun;19(3):183-6

In utero hematopoietic stem cell transplants prolong survival of postnatal kidney transplantation in monkeys. Mychaliska GB, et al. **J Pediatr Surg** 1997 Jul;32(7):976-81

Role of Hematopoietic Stem Cell Transplantation for Autoimmune Diseases. Proceedings of a conference. Seattle, Washington, October 27, 1995. **J Rheumatol Suppl** 1997 May;48:1-102

Allogeneic stem cell transplantation for the treatment of hematologic malignancies: current indications and challenges. Appelbaum FR. **J Rheumatol Suppl** 1997 May; 48:41-5 (31 ref.)

Hematopoietic stem cell transplantation for autoimmune diseases. Brooks PM. **J Rheumatol Suppl** 1997 May; 48:19-22 (22 ref.)

Choosing appropriate patients with systemic sclerosis for treatment by autologous stem cell transplantation. Clements PJ, et al. **J Rheumatol Suppl** 1997 May;48:85-8 (13 ref.)

The potential role of autologous stem cell transplantation in patients with systemic lupus erythematosus. Hahn BH. **J Rheumatol Suppl** 1997 May;48:89-93 (35 ref.)

Hematopoietic stem cell transplantation in nonmalignant diseases. Storb R. **J Rheumatol Suppl** 1997 May;48:30-5 (29 ref.)

The evolving role of blood and marrow transplantation for the treatment of autoimmune diseases. Sullivan KM, et al. **J Rheumatol Suppl** 1997 May;48:1-4 (59 ref.)

The use of autologous transplantation in the treatment of malignant disorders. Territo M. **J Rheumatol Suppl** 1997 May;48:36-40 (24 ref.)

Pros and cons of stem cell transplantation for autoimmune disease. Thomas ED. **J Rheumatol Suppl** 1997 May; 48:100-2 (15 ref.)

Hematopoietic stem cell transplantation in rheumatic diseases other than systemic sclerosis and systemic lupus erythematosus. Tyndall A. **J Rheumatol Suppl** 1997 May; 48:94-7 (25 ref.)

Systemic adjuvant therapy of breast cancer. Garrett TJ, et al. **J Surg Oncol** 1997 Feb;64(2):167-72 (35 ref.)

In utero hematopoietic stem cell transplantation. A status report. Flake AW, et al. **JAMA** 1997 Sep 17;278(11):932-7 (49 ref.)

Researchers struggle with trials of stem-cell transplants for breast cancer [news] Stephenson J. **JAMA** 1997 Jun 18; 277(23):1827-9

High dose chemotherapy with peripheral blood stem cells transplantation in patients with relapsed or refractory lymphomas preliminary reports. Chang CS, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Mar; 13(3):149-54

High dose consolidation with autologous stem cell rescue (ASCR) for nephroblastoma initially treated according to the SIOP 9/GPOH trial and study. Hempel L, et al. **Klin Padiatr** 1996 Jul-Aug;208(4):186-9

A single centre experience with allogeneic stem cell transplantation for severe aplastic anaemia in childhood. Ladenstein R, et al. **Klin Padiatr** 1997 Jul-Aug;209(4):201-8

Graft-versus-tumour and graft-versus-leukaemia effect in patient with concurrent breast cancer and acute myelocytic leukaemia [letter] Ben-Yosef R, et al. **Lancet** 1996 Nov 2;348(9036):1242-3

Peripheral blood stem-cell transplantation for refractory autoimmune thrombocytopenic purpura [letter] Lim SH, et al. **Lancet** 1997 Feb 15;349(9050):475

Autologous blood stem cell transplantation for autoimmune diseases. Snowden JA, et al. **Lancet** 1996 Oct 26; 348(9035):1112-3

Treatment of systemic sclerosis with autologous haemopoietic stem cell transplantation [letter] [see comments] Tyndall A, et al. **Lancet** 1997 Jan 25; 349(9047):254. Comment in: Lancet 1997 Mar 22;349(9055):881.

Hematologic recovery and survival of lymphoma patients after autologous stem-cell transplantation: comparison of bone marrow and peripheral blood progenitor cells. Brice P, et al. **Leuk Lymphoma** 1996 Aug;22(5-6):449-56

Twelve years experience with high-dose therapy and autologous stem cell transplantation for high-risk Hodgkin's disease patients in first remission after MOPP/ABVD chemotherapy. Carella AM, et al. **Leuk Lymphoma** 1996 Mar;21(1-2):63-70

Sequential intensive treatment with the F-MACHOP regimen (+/- radiotherapy) and autologous stem cell transplantation for primary systemic CD30 (Ki-1)--positive anaplastic large cell lymphoma in adults. Fanin R, et al. **Leuk Lymphoma** 1997 Jan;24(3-4):369-77

Autologous transplantation with tumor-free graft: a model for multiple myeloma patients. Gazitt Y, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):203-12 (65 ref.)

Outcome for patients with leukemia, multiple myeloma and lymphoma who relapse after high dose therapy and autologous stem cell support. Johnsen HE, et al. **Leuk Lymphoma** 1996 Dec;24(1-2):81-91

Peripheral blood progenitor cell mobilization with Dexa-Beam/G-CSF, ether lipid purging, and autologous transplantation after high-dose CBV treatment: a safe and effective regimen in patients with poor risk malignant lymphomas. Knauf WU, et al. **Leuk Lymphoma** 1996 Oct; 23(3-4):305-11

Technetium-99m sestamibi scanning in multiple myeloma stem cell transplantation. Look RM, et al. **Leuk Lymphoma** 1996 Feb;20(5-6):453-6

Comparison of interferon tolerance after autologous bone marrow or peripheral blood stem cell transplants for myeloma patients who have responded to induction therapy. Powles R, et al. **Leuk Lymphoma** 1996 May; 21(5-6):421-7

Allogenic transplants with peripheral blood progenitor cells: a report of six cases. Rozman C, et al. **Leuk Lymphoma** 1996 Feb;20(5-6):471-4

Hematopoietic stem cell transplants for multiple myeloma. Tricot G, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):25-36 (79 ref.)

Predictors for optimal mobilization and subsequent engraftment of peripheral blood progenitor cells following intermediate dose cyclophosphamide and G-CSF. Morton J, et al. **Leuk Res** 1997 Jan;21(1):21-7

Comparison of haematological recovery kinetics after myeloablative therapy between sibling allogeneic bone marrow and peripheral blood progenitor cell transplantation in the same adult acute lymphoblastic leukaemia patient [letter] Stockschläder M, et al. **Leuk Res** 1996 Nov-Dec;20(11-12):993-6

Purification of repopulating hemopoietic cells based on binding of biotinylated Kit ligand. de Jong MO, et al. **Leukemia** 1996 Nov;10(11):1813-22

The role of stem cell transplantation in the treatment of chronic lymphocytic leukemia. Dreger P, et al. **Leukemia** 1997 Apr;11 Suppl 2:S42-5 (25 ref.)

Studies of decitabine with allogeneic progenitor cell transplantation. Giralt S, et al. **Leukemia** 1997 Mar;11 Suppl 1:S32-4

Myeloablative therapy with blood stem cell transplantation is effective in mantle cell lymphoma. Haas R, et al. **Leukemia** 1996 Dec;10(12):1975-9

Pure red cell aplasia caused by B19 parvovirus infection after autologous blood stem cell transplantation in a patient with chronic lymphocytic leukemia [letter] Itälä M, et al. **Leukemia** 1997 Jan;11(1):171

Infusion of donor-derived peripheral blood leukocytes after transplantation of cord blood progenitor cells can increase the graft-versus-leukaemia effect. Locatelli F, et al. **Leukemia** 1997 May;11(5):729-31

Normal G-CSF-mobilized CD34+ peripheral blood stem cells in paroxysmal nocturnal hemoglobinuria: a perspective for autologous transplantation [letter] Musto P, et al. **Leukemia** 1997 Jun;11(6):890-2

Allogeneic vs autologous stem cell transplantation vs chemotherapy in patients with acute myeloid leukemia in first remission: the BGMT 87 study. Reiffers J, et al. **Leukemia** 1996 Dec;10(12):1874-82

Bone marrow transplantation in first remission. Rowe JM. **Leukemia** 1997 May;11 Suppl 4:S12-4 (23 ref.)

Transplantation of autologous peripheral blood progenitor cells procured after high-dose cytarabine-based consolidation chemotherapy for adults with acute myelogenous leukemia in first remission. Schiller G, et al. **Leukemia** 1997 Sep;11(9):1533-9

Cytomegalovirus after autografting for leukemia: clinical significance and lack of effect on engraftment. Singhal S, et al. **Leukemia** 1997 Jun;11(6):835-8

Facilitated engraftment of human hematopoietic cells in severe combined immunodeficient mice following a single injection of Cl2MDP liposomes. Terpstra W, et al. **Leukemia** 1997 Jul;11(7):1049-54

ALL and beyond: implications for other hematologic malignancies. Thomas ED. **Leukemia** 1997 May;11 Suppl 4:S43-5 (7 ref.)

Bone marrow transplantation for acute lymphocytic leukemia (ALL). Weisdorf DJ. **Leukemia** 1997 May;11 Suppl 4:S20-2 (13 ref.)

Potential for clinical use of viable pluripotent progenitor cells in blood bank stored human umbilical cord blood. Lu S, et al. **Life Sci** 1997;61(12):1113-23

Autologous marrow stem cell transplantation for severe systemic lupus erythematosus of long duration. Marmont AM, et al. **Lupus** 1997;6(6):545-8

Multiple myeloma, high-dose treatment and autologous stem cell transplantation--current status. Björkstrand B. **Med Oncol** 1996 Mar;13(1):23-30 (90 ref.)

Autologous bone marrow and peripheral blood stem cell transplantation in haematological malignancies: current status. Marcoullis G, et al. **Med Oncol** 1995 Dec; 12(4):209-18 (91 ref.)

Efficacy and toxicity of radiation in preparative regimens

for pediatric stem cell transplantation. II: Deleterious consequences. Miale TD, et al. **Med Oncol** 1996 Mar; 13(1):43–61 (130 ref.)

Uncertain role of high dose chemotherapy with autologous stem cell support in pediatric pleuro–pulmonary blastoma (PPB) [letter; comment] Békássy AN, et al. **Med Pediatr Oncol** 1997 Jan;28(1):75–6. Comment on: Med Pediatr Oncol 1995 Dec;25(6):479–84.

Feasibility of sequential high–dose chemotherapy and peripheral blood stem cell support for pediatric central nervous system malignancies. Jakacki RI, et al. **Med Pediatr Oncol** 1997 Dec;29(6):553–9

Metastatic primitive neuroectodermal tumour of the ovary: successful treatment with mega–dose chemotherapy followed by peripheral blood progenitor cell rescue. Lawlor ER, et al. **Med Pediatr Oncol** 1997 Oct;29(4):308–12

Stem cells to treat HIV [news] Fricker J. **Mol Med Today** 1997 May;3(5):186–7

Placental–blood transplantation [letter; comment] Abecasis MM, et al. **N Engl J Med** 1997 Jan 2;336(1):69; discussion 69–70. Comment on: N Engl J Med 1996 Jul 18;335(3):157–66.

Placental–blood transplantation [letter; comment] Ammann AJ. **N Engl J Med** 1997 Jan 2;336(1):68; discussion 69–70 . Comment on: N Engl J Med 1996 Jul 18;335(3):199–201.

Placental–blood transplantation [letter; comment] Bertolini F, et al. **N Engl J Med** 1997 Jan 2;336(1):68–9; discussion 69–70. Comment on: N Engl J Med 1996 Jul 18;335(3):157–66.

Placental–blood transplantation [letter; comment] Locatelli F, et al. **N Engl J Med** 1997 Jan 2;336(1):69; discussion 69–70. Comment on: N Engl J Med 1996 Jul 18;335(3):157–66.

Identification of primitive human hematopoietic cells capable of repopulating NOD/SCID mouse bone marrow: implications for gene therapy. Larochelle A, et al. **Nat Med** 1996 Dec;2(12):1329–37

Engraftment of CD34+ peripheral blood progenitor cells into multiple myeloma patients following total body irradiation. Pico JL, et al. **Nouv Rev Fr Hematol** 1995; 37(6):381–3

Ex vivo hematopoietic cell expansion: a theoretical and technological challenge. Poloni A, et al. **Nouv Rev Fr Hematol** 1995;37(6):367–73 (51 ref.)

Hematopoietic progenitor cell expansion [editorial] Reiffers J, et al. **Nouv Rev Fr Hematol** 1995;37(6):333

Peripheral blood progenitor cell transplantation in France. Reiffers J, et al. **Nouv Rev Fr Hematol** 1995;37(6):321–5 (16 ref.)

Allogeneic transplantation of peripheral blood progenitor cells. Schmitz N. **Nouv Rev Fr Hematol** 1995;37(6):377–9

Clinical trials referral resource. New autologous stem–cell transplant protocols. Cheson BD, et al. **Oncology (Huntingt)** 1997 Feb;11(2):178–80

State of the art in umbilical cord transplantation. Kurtzberg J. **Oncology (Huntingt)** 1996 Jul;10(7):1086, 1091

Cord blood transplantation: a promising future. Rottman GA, et al. **Pediatrics** 1997 Mar;99(3):475–6

Purification of primitive human hematopoietic cells capable of repopulating immune–deficient mice. Bhatia M, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5320–5

Expansion in vitro of transplantable human cord blood stem cells demonstrated using a quantitative assay of their lympho–myeloid repopulating activity in nonobese diabetic–scid/scid mice. Conneally E, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9836–41

Pluripotent hemopoietic stem cells are c–kit<low. Doi H, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2513–7

Improved retroviral gene transfer into murine and Rhesus peripheral blood or bone marrow repopulating cells primed in vivo with stem cell factor and granulocyte colony–stimulating factor. Dunbar CE, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11871–6

Results of MDR–1 vector modification trial indicate that granulocyte/macrophage colony–forming unit cells do not contribute to posttransplant hematopoietic recovery following intensive systemic therapy [published erratum appears in Proc Natl Acad Sci U S A 1997 May 13;94(10):5495] Hanania EG, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15346–51

Local production of the p40 subunit of interleukin 12 suppresses T–helper 1–mediated immune responses and prevents allogeneic myoblast rejection. Kato K, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9085–9

Generation of NK1.1+ T cell antigen receptor alpha/beta+ thymocytes associated with intact thymic structure [published erratum appears in Proc Natl Acad Sci U S A 1997 May 27;94(11):5979] Nakagawa K, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2472–7

Pig but not human interferon–gamma initiates human cell–mediated rejection of pig tissue in vivo. Sultan P, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8767–72

Allogeneic peripheral blood stem cell transplantation. Buckner CD, et al. **Rinsho Ketsueki** 1997 Mar;38(3):157–61 (23 ref.)

The role of autologous hematopoietic stem cell transplantation in multiple myeloma. Harousseau JL, et al. **Semin Hematol** 1997 Jan;34(1 Suppl 1):61–6 (45 ref.)

Mobilization of hematopoietic progenitor cells with Epoetin alfa. Kessinger AM, et al. **Semin Hematol** 1996 Jan;33(1 Suppl 1):10–5 (40 ref.)

Normal and leukemic human stem cells assayed in SCID mice. Dick JE. **Semin Immunol** 1996 Aug;8(4):197–206 (69 ref.)

Allogeneic hematopoietic stem cell transplantation for acute leukemia. Appelbaum FR. **Semin Oncol** 1997 Feb; 24(1):114–23 (45 ref.)

Dose escalation of paclitaxel with high–dose carboplatin using peripheral blood progenitor cell support in patients with advanced ovarian cancer. Fennelly DW, et al. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2–26–S2–30

Mobilization of peripheral blood progenitor cells with paclitaxel–based chemotherapy. Shea TC. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2–105–S2–107 (17 ref.)

Nursing care of the blood cell transplant recipient. Buchsel PC, et al. **Semin Oncol Nurs** 1997 Aug;13(3):172–83 (39 ref.)

Gene therapy and blood cell transplantation. Cuaron LJ, et al. **Semin Oncol Nurs** 1997 Aug;13(3):200–7 (28 ref.)

Blood cell transplantation: concepts and concerns. Kapustay PM. **Semin Oncol Nurs** 1997 Aug;13(3):151–63 (44 ref.)

Pediatric blood cell transplantation. Secola R. **Semin Oncol Nurs** 1997 Aug;13(3):184–93 (52 ref.)

Diseases treated with blood cell transplants. Yoder LH. **Semin Oncol Nurs** 1997 Aug;13(3):164–71 (60 ref.)

Advances in Cancer Treatment: The Chabner Symposium. Tribute to Dr. Bruce A. Chabner. April 7, 1995. **Stem Cells** 1996 Jan;14(1):i, 1–150

Growth of human hematopoietic cells in immunodeficient mice conditioned with cyclophosphamide and busulfan. Basch RS, et al. **Stem Cells** 1997;15(4):314–23

Transplantation of allogeneic peripheral blood stem cells mobilized by recombinant human granulocyte colony stimulating factor. Bensinger WI, et al. **Stem Cells** 1996 Jan;14(1):90–105 (87 ref.)

High–dose chemotherapy with autologous stem cell rescue for breast cancer: yesterday, today and tomorrow. Brockstein BE, et al. **Stem Cells** 1996 Jan;14(1):79–89 (71 ref.)

Serum–free culture conditions for cells capable of producing long–term survival in lethally irradiated mice. Brown RL, et al. **Stem Cells** 1997;15(3):237–45

Optimization of peripheral blood stem cell mobilization. Demirer T, et al. **Stem Cells** 1996 Jan;14(1):106–16 (77 ref.)

Comparison between bone marrow and G–CSF–mobilized peripheral blood allografts undergoing clinical scale CD34+ cell selection. Hassan HT, et al. **Stem Cells** 1996 Jul;14(4):419–29

Peripheral blood progenitor cell transplantation: a replacement for marrow auto– or allografts. Körbling M, et al. **Stem Cells** 1996 Mar;14(2):185–95 (72 ref.)

Purging peripheral blood progenitor cell grafts from lymphoma cells: quantitative comparison of immunomagnetic CD34+ selection systems. Paulus U, et al. **Stem Cells** 1997;15(4):297–304

Minimal residual disease post–bone marrow transplantation for hemato–oncological diseases. Toren A, et al. **Stem Cells** 1996 May;14(3):300–11 (80 ref.)

Prophylactic antibiotics eliminate bacteremia and allow safe outpatient management following high–dose chemotherapy and autologous stem cell rescue. Meisenberg B, et al. **Support Care Cancer** 1996 Sep;4(5):364–9

Complications associated with central venous catheters used for the collection of peripheral blood progenitor cells to support high–dose chemotherapy and autologous stem cell rescue. Meisenberg BR, et al. **Support Care Cancer** 1997 May;5(3):223–7

In vivo depletion of host CD4+ and CD8+ cells permits engraftment of bone marrow stem cells and tolerance induction with minimal conditioning. Exner BG, et al. **Surgery** 1997 Aug;122(2):221–7

Bacterial contamination of peripheral blood progenitor cells for transplantation. Jestice HK, et al. **Transfus Med** 1996 Jun;6(2):103–10

Preapheresis peripheral blood CD34+ mononuclear cell counts as predictors of progenitor cell yield. Benjamin RJ, et al. **Transfusion** 1997 Jan;37(1):79–85

Large–volume apheresis for the harvest of peripheral blood progenitor cells for autologous transplantation. Smolowicz AG, et al. **Transfusion** 1997 Feb;37(2):188–92

Allogeneic peripheral blood progenitor cell transplantation: the Taiwan experience [letter] Tzeng CH, et al. **Transfusion** 1997 Feb;37(2):244–6

Comparison of the content and subpopulations of CD3 and CD34 positive cells in bone marrow harvests and G–CSF–mobilized peripheral blood leukapheresis products from healthy adult donors. Hassan HT, et al. **Transpl Immunol** 1996 Dec;4(4):319–23

F1 hybrid resistance and self–tolerance in graft–versus–host mice. Baron C, et al. **Transplant Proc** 1996 Oct;28(5):2921–2

Stem cell transfusion as a new method for the induction of tolerance in organ transplantation. de Vries–van der Zwan A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1209–10

Long–term survival of limb allografts after weaning of cyclosporine: possible role of microchimerism. Durlik M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1226–7

Costimulatory molecule–deficient dendritic cell progenitors induce T cell hyporesponsiveness in vitro and prolong the survival of vascularized cardiac allografts. Fu F, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1310

A unique mechanism of tolerance by perioperative intrathymic injection of bone marrow cells with a short course of ALS and FK506 in the rat cardiac allograft model. Ito A, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1137–8

Serum interferon–gamma and C–reactive protein levels as predictors of acute graft–vs–host disease in allogeneic hematopoietic precursor cell (marrow or peripheral blood progenitor cells) recipients. Lange A, et al. **Transplant Proc** 1996 Dec;28(6):3522–5

Expression of dendritic cell markers on bone marrow cells in a fraction enriched for the ability to prolong skin allograft survival in ALS–treated murine recipients. Masli S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1147–8

Neonatal bone fragments for the induction of xenograft acceptance: transplantation of xenogeneic hematopoietic stem cells and species–specific microenvironment for hematopoiesis. Murase N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1201

CD34+ stem cell augmentation of allogeneic, elutriated marrow grafts improves engraftment but cyclosporine A is still required to reduce GVHD and morbidity. Noga SJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):728–32

Potential role of CD34 stem cells in tolerance induction. Rachamim N, et al. **Transplant Proc** 1997 Jun;29(4):1935–6

Is microchimerism needed for allograft tolerance? Schlitt HJ. **Transplant Proc** 1997 Feb–Mar;29(1–2):82–4

Improved engraftment and chimerism by anti–NK cell treatment in allogeneic transplantation of hematopoietic stem cells. Touraine JL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):719

Immunological tolerance following stem cell transplantation in human fetuses in utero. Touraine JL, et al. **Transplant Proc** 1997 Aug;29(5):2477

Vascularized bone marrow allotransplantation in rats prolongs a simultaneous skin allograft. Tsuchida Y, et al. **Transplant Proc** 1997 May;29(3):1732–3

Retroviral gene transfer of a donor class I MHC gene to recipient bone marrow cells induces tolerance to alloantigens in vivo. Wong W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1130

Syngeneic bone marrow cells expressing a single donor class I MHC molecule are more effective at inducing tolerance than donor bone marrow cells. Wong W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1131

Hematopoietic reconstitution by transplanted grafts in lethally irradiated recipients. Ye Q, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1202

Recruitment of engrafted donor cells postnatally into the blood with cytokines after in utero transplantation in mice. Carrier E, et al. **Transplantation** 1997 Aug 27;64(4):627–33

The Belfast Cord Blood Bank. Bharucha C, et al. **Ulster Med J** 1997 May;66(1):9–12

Peripheral blood progenitor cell collection during hematopoietic recovery following autologous blood progenitor cell transplantation. Schwella N, et al. **Vox Sang** 1997;72(2):118–20

The use of umbilical cord blood stem cells for hematopoietic reconstitution. Dovat S, et al. **West J Med** 1997 May; 166(5):342–3

[A study on the peripheral blood stem cells mobilization, collection and their effects on engraftment] Wang L, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):659–62 (Eng. Abstr.) **(Chi)**

[Purging of hemopoietic progenitor cells in autologous transplantation] Hrubá A, et al. **Cas Lek Cesk** 1997 Mar 12;136(5):151–3 (Eng. Abstr.) **(Cze)**

[The human hematopoietic stem cell biology and clinical use] Hansen NE, et al. **Ugeskr Laeger** 1997 Jun 30; 159(27):4253–6 **(Dan)**

[Peripheral blood stem cell allograft] Blaise D. **Hematol Cell Ther** 1996 Oct;38(5):455 **(Fre)**

[Peripheral blood stem cells] Chabannon C. **Hematol Cell Ther** 1996 Oct;38(5):451–2 **(Fre)**

[The cell as viewed by French foundations of transplantation: regular aspects] Houssin D, et al. **Hematol Cell Ther** 1996 Oct;38(5):458 **(Fre)**

[Peripheral blood stem cell allograft from HLA–unrelated donors] Kuentz M. **Hematol Cell Ther** 1996 Oct;38(5):453–4 **(Fre)**

[Utilization of herpes simplex virus–1 thymidine kinase gene in stem cell transplantation therapy] Tiberghien P, et al. **Hematol Cell Ther** 1996 Oct;38(5):464 **(Fre)**

[Therapeutic intensification and autotransplantation of hematopoietic stem cells in metastatic breast cancers] Lotz JP, et al. **Presse Med** 1996 Nov 16;25(35):1737–43 (35 ref.) (Eng. Abstr.) **(Fre)**

[A model of congenital erythropoietic porphyria for gene transfer in hematopoietic cells] de Verneuil H, et al. **Transfus Clin Biol** 1997;4(3):263–6 (Eng. Abstr.) **(Fre)**

[High dose therapy with transplantation of autologous peripheral hematopoietic stem cells. II. Indications and clinical results] Gunsilius E, et al. **Acta Med Austriaca** 1997; 24(3):102–7 (53 ref.) (Eng. Abstr.) **(Ger)**

[High dose therapy with transplantation of autologous peripheral hematopoietic stem cells. I. Basic principles and clinical development] Gunsilius E, et al. **Acta Med Austriaca** 1997;24(3):97–101 (53 ref.) (Eng. Abstr.) **(Ger)**

[High dose chemotherapy with autologous stem cell transplantation] Weissinger F, et al. **Fortschr Med** 1997 Mar 30;115(9):39–43 (20 ref.) (Eng. Abstr.) **(Ger)**

[Intrauterine fetal stem cell transplantation] Pschera H. **Gynakol Geburtshilfliche Rundsch** 1996;36(2):105–7 (21 ref.) (Eng. Abstr.) **(Ger)**

[Value of hematopoietic stem cell transplantation in treatment

of leukemia] Runde V, et al. **Internist (Berl)** 1996 Oct; 37(10):1030–9 (39 ref.) **(Ger)**

[High dose chemotherapy of solid tumors] Höffken K, et al. **Med Klin** 1997 Jul 15;92(7):410–4 (18 ref.) (Eng. Abstr.) **(Ger)**

[Transplantation of hematopoietic stem cells. I: Definitions, principle indications, complications] Link H, et al. **Med Klin** 1997 Aug 15;92(8):480–91, 505 (106 ref.) (Eng. Abstr.) **(Ger)**

[Principle and foundations of high dose therapy with stem cell transplantation] Haas R, et al. **Zentralbl Gynakol** 1996; 118(10):575–7 **(Ger)**

[Significance of stem cell–supported high–dose chemotherapy in the treatment of gynecological malignancies: indications and current clinical trials in the Federal Republic of Germany] Nitz U, et al. **Zentralbl Gynakol** 1997;119(5):195–203 (Eng. Abstr.) **(Ger)**

[Diagnostic value of hematopoietic stem cells] Gidáli J, et al. **Orv Hetil** 1997 May 11;138(19):1171–6 (47 ref.) (Eng. Abstr.) **(Hun)**

[Immunologic bases of graft vs. host disease: 1997] Uher F. **Orv Hetil** 1997 Aug 31;138(35):2163–8 (33 ref.) (Eng. Abstr.) **(Hun)**

[The treatment of serious autoimmune diseases. Immune ablation integrated with hematopoietic stem cells (editorial)] Marmont AM. **Recenti Prog Med** 1996 Oct; 87(10):480–6 (90 ref.) **(Ita)**

[CD34+ cells: biological aspects] Benedetti F. **Tumori** 1996 Mar–Apr;82(2 Suppl):S3–13 (73 ref.) (Eng. Abstr.) **(Ita)**

[The use of peripheral blood progenitor cells (PBPC) in oncology. Introduction] Gianni AM. **Tumori** 1996 Mar–Apr;82(2 Suppl):S1–2 **(Ita)**

[High–dose chemotherapy and peripheral hemtopoietic cells (PBPC) in solid tumors] Rosti G, et al. **Tumori** 1996 Mar–Apr;82(2 Suppl):S19–22 (27 ref.) (Eng. Abstr.) **(Ita)**

[Long–term hematopoietic reconstitution after myeloablative antitumor therapy and circulating hematopoietic stem cell transplantation] Siena S, et al. **Tumori** 1996 Mar–Apr;82(2 Suppl):S23–7 (Eng. Abstr.) **(Ita)**

[Investigation of chemotherapy combined with peripheral blood stem cell transplantation (PBSCT) both in elderly and in recurred patients with small cell lung cancer] Daido K, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):883–7 **(Jpn)**

[Chemohyperthermic peritoneal perfusion and high–dose chemotherapy followed by peripheral blood stem cell transplantation in advanced colon cancer—a case report] Fujimura T, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1578–80 (Eng. Abstr.) **(Jpn)**

[Allogeneic peripheral blood stem cell transplantation] Harada M. **Gan To Kagaku Ryoho** 1996 Dec;23(14):1877–85 (35 ref.) (Eng. Abstr.) **(Jpn)**

[Present state of cord–blood stem cell transplantation] Nishihira H, et al. **Gan To Kagaku Ryoho** 1997 Apr; 24(6):650–6 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Hematopoietic stem cell transplantation for children with cancer] Ohira M. **Gan To Kagaku Ryoho** 1997 Apr; 24(6):644–9 (3 ref.) (Eng. Abstr.) **(Jpn)**

[Two cases of adenosquamous cell carcinoma of advanced cervical cancer treated by carboplatin–based chemotherapy with peripheral blood stem cell autotransplant] Takeda S, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):1013–7 (Eng. Abstr.) **(Jpn)**

[Recent progress on peripheral blood stem cell transplantation] Harada M.
Nihon Rinsho Meneki Gakkai Kaishi 1995 Dec;18(6):605 (0 ref.) **(Jpn)**

[Introduction and prospect of peripheral blood stem cell transplantation] Nakanishi Y.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:24–8 (Eng. Abstr.) **(Jpn)**

[Case of embryonal cell carcinoma treated with massive dosages of therapeutic agents together with transplantation of autologous peripheral stem cells] Gokuma T, et al.
Nippon Naika Gakkai Zasshi 1997 Feb 10;86(2):307–9 **(Jpn)**

[Peripheral blood stem cell transplantation] Harada M.
Nippon Naika Gakkai Zasshi 1996 Jun 10;85(6):886–91 (9 ref.) **(Jpn)**

[Clinical application of gene technology for diagnosis and treatment of leukemia] Hashino S, et al. **Rinsho Byori** 1997 Jan;45(1):58–65 (Eng. Abstr.) **(Jpn)**

[Clinical application of allogeneic peripheral blood stem cell transplantation] Harada M, et al. **Rinsho Ketsueki** 1996 Jul; 37(7):598–603 (19 ref.) **(Jpn)**

[Cord blood stem cell transplantation for a patient with acute myelogenous leukemia (M1)] Hattori K, et al.
Rinsho Ketsueki 1996 Dec;37(12):1371–6 (Eng. Abstr.) **(Jpn)**

[Cytokine expression and hematopoietic recovery after transplantation] Hirayama Y, et al. **Rinsho Ketsueki** 1997 Jun;38(6):469–71 **(Jpn)**

[Hematopoietic stem cell transplantation for multiple myeloma] Miwa A. **Rinsho Ketsueki** 1997 Apr; 38(4):296–301 **(Jpn)**

[G–CSF–combined preparatory regimen for autologous peripheral blood stem cell transplantation in acute myelogenous leukemia] Miyamoto T, et al.
Rinsho Ketsueki 1997 Jun;38(6):484–8 **(Jpn)**

[Peripheral blood stem cell transplantation for acute leukemia] Mizuno S, et al. **Rinsho Ketsueki** 1996 Jul; 37(7):584–90 **(Jpn)**

[Umbilical cord blood transplantation for a patient with Diamond–Blackfan syndrome] Morimoto T, et al.
Rinsho Ketsueki 1997 Jul;38(7):610–5 (Eng. Abstr.) **(Jpn)**

[Mobilization and collection of peripheral blood stem cells] Shimazaki C, et al. **Rinsho Ketsueki** 1996 Jul;37(7):574–8 (10 ref.) **(Jpn)**

[High–clore chemotherapy followed by autologous peripheral blood stem cell transplantation (PBSCT) for patients with malignant lymphoma—its role in the treatment strategy for non–Hodgkin's lymphoma, and ESHAP + PBSCT therapy] Tanosaki R, et al.
Rinsho Ketsueki 1996 Jul;37(7):591–7 (24 ref.) **(Jpn)**

[Current status and problems of G–CSF–induced mobilization of peripheral blood stem cell] Teshima T, et al. **Rinsho Ketsueki** 1997 Jun;38(6):479–83 **(Jpn)**

[The detection of minimal residual disease by DEK/CAN chimeric m–RNA in a case of AML M2 with translocation t(6;9) (p23;q34) after chemotherapy and peripheral blood stem cell transplantation] Toyosawa M, et al.
Rinsho Ketsueki 1997 Jan;38(1):33–40 (Eng. Abstr.) **(Jpn)**

[Leukoencephalopathy probably caused by tacrolimus hydrate after stem cell transplantation in a girl with MDS 7 monosomy] Yoshimoto T, et al. **Rinsho Ketsueki** 1997 Jul;38(7):616–21 (Eng. Abstr.) **(Jpn)**

[High dose therapy with autologous stem cell support in malignant disorders. Excerpt from the statement by the advisory group of the State Health Services] Holte H, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2577–81 (Eng. Abstr.) **(Nor)**

[High–dose therapy with autologous stem cell support in malignant lymphoma and breast cancer. Experiences with hematopoietic stem cells isolate from blood] Kolstad A, et al. **Tidsskr Nor Laegeforen** 1996 Sep 10;116(21):2547–51 (Eng. Abstr.) **(Nor)**

[High–dose therapy of cancer with CD34 positive cells as stem cell support] Kvalheim G, et al.
Tidsskr Nor Laegeforen 1996 Sep 10;116(21):2542–6 (Eng. Abstr.) **(Nor)**

[High–dose therapy with stem cell support and support by a cabinet minister] Nylenna M, et al.
Tidsskr Nor Laegeforen 1996 Sep 10;116(21):2537–9 **(Nor)**

[Use of hematopoietic stem cells in gene therapy (editorial)] Smogorzewska EM. **Pol Arch Med Wewn** 1996 Dec; 96(6):511–9 **(Pol)**

[Kinetics of hematopoietic clones in reconstituted mice] Drize NI, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):180–3 **(Rus)**

[The effect of leukemia–inhibitory factor on the hematopoiesis and stromal precursor cells in long–term culture of murine bone marrow] Drize NI, et al.
Biull Eksp Biol Med 1996 Sep;122(9):325–8 **(Rus)**

[The number of functional hematopoietic clones in mice with bone marrow recovery depends upon the dose of transplanted cells] Drize NI, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):86–9 **(Rus)**

["Graft versus leukemia" during mixed chimeric hematopoiesis] Seledtsova GV, et al.
Biull Eksp Biol Med 1997 May;123(5):562–5 **(Rus)**

[Transplantation of human fetal tissues in hematology] Sukhikh GT, et al. **Biull Eksp Biol Med** 1994 Apr; 117(4):375–7 (20 ref.) **(Rus)**

[Distribution of hematopoietic stem cells in the mononuclear fraction of human umbilical cord blood] Iurasov SV, et al. **Gematol Transfuziol** 1996 Mar–Apr;41(2):13–6 (Eng. Abstr.) **(Rus)**

[Hemopoietic stem cell transplantation in lymphogranulomatosis] Uss AL, et al. **Vopr Onkol** 1997; 43(2):188–91 (Eng. Abstr.) **(Rus)**

[Hemopoietic stem cell transplantation in pediatrics] Madero López L, et al. **An Esp Pediatr** 1997 May;46(5):424–6 **(Spa)**

[Infection prevention in the patient undergoing hematopoietic stem cell transplantation] Baro J, et al.
Enferm Infecc Microbiol Clin 1997 May;15 Suppl 2:90–7 (80 ref.) **(Spa)**

[PCR study of bcl–2 rearrangement in autologous transplantation of peripheral stem cells in follicular non–Hodgkin's lymphoma] Ataulfo González F, et al.
Med Clin (Barc) 1997 May 17;108(19):730–3 (Eng. Abstr.) **(Spa)**

[Autologous hemopoietic progenitor cell transplantation in chronic myelogenous leukemia] Carreras E.
Med Clin (Barc) 1997 Jun 28;109(5):181–5 (50 ref.) **(Spa)**

[The intensive treatment of multiple myeloma with support from hematopoietic progenitors] Paz–Ares L, et al.
Med Clin (Barc) 1997 Feb 15;108(6):226–9 (37 ref.) **(Spa)**

[Allogeneic transplant of peripheral blood hematopoietic progenitors. Preliminary experience] Rozman C, et al.
Med Clin (Barc) 1996 Jan 20;106(2):66–8 (Eng. Abstr.) **(Spa)**

[The autotransplantation of hemopoietic progenitors in acute myeloblastic leukemia (editorial; comment)] Sierra Gil J, et al. **Med Clin (Barc)** 1997 Feb 15;108(6):221–3 (41 ref.) . Comment on: Med Clin (Barc) 1997 Feb 15;108(6):201–6. **(Spa)**

[Allogeneic transplantation of peripheral blood hemopoietic progenitors: a step forward? (clinical conference)] Urbano–Ispizua A. **Med Clin (Barc)** 1997 Feb 15; 108(6):230–5 (28 ref.) **(Spa)**

[Autologous transplantation of peripheral blood stem cells in malignant lymphomas] Sánchez Luceros A, et al.
Medicina (B Aires) 1995;55(4):366–72 (30 ref.) (Eng. Abstr.) **(Spa)**

[Two cases of heterologous transplantation with peripheral blood] Gómez–Almaguer D, et al. **Rev Invest Clin** 1997 Jan–Feb;49(1):41–5 (33 ref.) (Eng. Abstr.) **(Spa)**

[Report on umbilical cord blood transplantation. Working Group on Cord Blood Transplantation] **Sangre (Barc)** 1997 Apr;42(2):141–51 (7 ref.) **(Spa)**

[Evaluation of clinical experience in umbilical cord blood transplantation] Fernández MN. **Sangre (Barc)** 1997 Apr; 42(2):135–40 (19 ref.) **(Spa)**

[Alloreactivity and umbilical cord blood transplantation] Gallardo D, et al. **Sangre (Barc)** 1997 Apr;42(2):113–6 (22 ref.) **(Spa)**

[Allogeneic umbilical cord blood transplantation in overweight patients: evaluation of outcome, alloreactivity and morbidity. Preliminary results of a phase I study] Romero R, et al. **Sangre (Barc)** 1997 Apr;42(2):123–33 **(Spa)**

[The use of cryopreserved hemopoietic cells of the human embryonic liver in stable depressions of hematopoiesis in cancer patients] Bilyns'kyĭ BT, et al. **Lik Sprava** 1996 Oct–Dec;(10–12):77–9 (Eng. Abstr.) **(Ukr)**

ADVERSE EFFECTS

Severe anal condylomata acuminata following high–dose chemotherapy and autologous hematopoietic stem cell transplantation: a case report. D'Hondt L, et al.
Acta Gastroenterol Belg 1996 Oct–Dec;59(4):254–5

Early–onset secondary malignancies after high–dose chemotherapy and autologous hematopoietic stem cell transplantation. Fetscher S, et al. **Ann Hematol** 1997 Feb; 74(2):73–7

Granulocyte colony–stimulating factor reduces the capacity of blood mononuclear cells to induce graft–versus–host disease: impact on blood progenitor cell transplantation. Zeng D, et al. **Blood** 1997 Jul 1;90(1):453–63

Microbial contamination of peripheral blood stem cell collections. Attarian H, et al. **Bone Marrow Transplant** 1996 May;17(5):699–702

Combined foscarnet –ganciclovir treatment for cytomegalovirus infections after allogeneic hemopoietic stem cell transplantation (Hsct). Bacigalupo A, et al.
Bone Marrow Transplant 1996 Nov;18 Suppl 2:110–4

Mucosal melanoma following autologous stem cell transplantation for non–Hodgkin's lymphoma (NHL). Ben–Yosef R, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):1017–9

Reversible brain MRI changes in acyclovir neurotoxicity. Blohm ME, et al. **Bone Marrow Transplant** 1997 May; 19(10):1049–51

Rapid engraftment after allogeneic ABO–incompatible peripheral blood progenitor cell transplantation complicated by severe hemolysis. Bornhäuser M, et al.
Bone Marrow Transplant 1997 Feb;19(3):295–7

Anaphylaxis during autologous peripheral blood progenitor cell infusion. Essayan DM, et al.
Bone Marrow Transplant 1997 Apr;19(7):749–52

Factors predicting morbidity following hematopoietic stem cell transplantation. Gordon B, et al.
Bone Marrow Transplant 1997 Mar;19(5):497–501

Acute portal vein thrombosis after autologous stem cell transplantation. Grigg A, et al.
Bone Marrow Transplant 1996 Nov;18(5):949–53

Renal Salmonella enteritidis abscess in a patient with severe aplastic anemia after allogeneic stem cell transplantation. Hashino S, et al. **Bone Marrow Transplant** 1996 Oct; 18(4):807–8

t(3;21) following peripheral blood stem cell transplantation in chronic phase chronic myeloid leukaemia. Jacob A, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1255–8

Infectious complications during neutropenia subsequent to peripheral blood stem cell transplantation. Kolbe K, et al.
Bone Marrow Transplant 1997 Jan;19(2):143–7

Vasculitis post–autologous transplant causing pulmonary shadows in a patient with Hodgkin's disease. McCloy M, et al. **Bone Marrow Transplant** 1996 May;17(5):869–70

High incidence of chronic GVHD after primary allogeneic peripheral blood stem cell transplantation in patients with hematologic malignancies. Majolino I, et al.
Bone Marrow Transplant 1996 Apr;17(4):555–60

Rapid progression of flat warts in a patient with malignant lymphoma after PBSCT. Maruyama F, et al.
Bone Marrow Transplant 1996 Nov;18(5):1009–11

Suppression of progenitor cell growth by vancomycin following autologous stem cell transplantation. Meehan KR, et al. **Bone Marrow Transplant** 1997 May; 19(10):1029–32

P. carinii pneumonia (PCP) following tandem cycles of high–dose chemotherapy and autologous PBPC support [letter] Meisenberg B, et al. **Bone Marrow Transplant** 1996 Oct;18(4):823

Increased frequency of autoaggression syndrome associated with autologous stem cell transplantation in breast cancer patients. Moreb JS, et al. **Bone Marrow Transplant** 1997 Jan;19(2):101–6

Cryptosporidiosis after CD34–selected autologous peripheral blood stem cell transplantation (PBSCT). Treatment with

paromomycin, azithromycin and recombinant human interleukin-2. Nachbaur D, et al.
Bone Marrow Transplant 1997 Jun;19(12):1261-3

Infectious complications of autologous bone marrow and peripheral stem cell transplantation for refractory leukemia and lymphoma. Nosanchuk JD, et al.
Bone Marrow Transplant 1996 Aug;18(2):355-9

Hemolytic uremic syndrome following autologous peripheral blood stem cell transplantation in a patient with malignant lymphoma. Ohno E, et al. **Bone Marrow Transplant** 1997 May;19(10):1045-7

Early and fatal immune haemolysis after so-called 'minor' ABO-incompatible peripheral blood stem cell allotransplantation. Oziel-Taieb S, et al.
Bone Marrow Transplant 1997 Jun;19(11):1155-6

Role of tumor cells contaminating the graft in breast cancer recurrence after high-dose chemotherapy. Pedrazzoli P, et al. **Bone Marrow Transplant** 1997 Jul;20(2):167-9

Spontaneous graft-versus-host disease following autologous peripheral blood progenitor cell transplantation in chronic myeloid leukaemia. Rainey MG, et al.
Bone Marrow Transplant 1996 Jun;17(6):1077-9

A survey of the prophylaxis and treatment of acute GVHD in Europe: a report of the European Group for Blood and Marrow, Transplantation (EBMT). Chronic Leukaemia Working Party of the EBMT. Ruutu T, et al.
Bone Marrow Transplant 1997 Apr;19(8):759-64

Risk of cytomegalovirus infection after peripheral blood stem cell transplantation. Sakuma H, et al.
Bone Marrow Transplant 1997 Jan;19(1):49-53

BK papova virus pneumonia following hematopoietic stem cell transplantation. Sandler ES, et al.
Bone Marrow Transplant 1997 Jul;20(2):163-5

Tumor cell contamination of peripheral blood stem cell transplants and bone marrow in high-risk breast cancer patients. Schulze R, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1223-8

Severe acute graft-versus-host disease of conjunctivae after allogeneic blood progenitor cell infusion. Spiro TP, et al.
Bone Marrow Transplant 1996 Jun;17(6):1179-80

Very low-dose methotrexate in the treatment of GVHD in children. Vettenranta K, et al. **Bone Marrow Transplant** 1997 Jul;20(1):75-7

Angina pectoris occurring during granulocyte colony-stimulating factor-combined preparatory regimen for autologous peripheral blood stem cell transplantation in a patient with acute myelogenous leukaemia. Fukumoto Y, et al. **Br J Haematol** 1997 Jun;97(3):666-8

Prolonged nausea and vomiting after high dose chemotherapy and autologous peripheral stem cell transplantation in the treatment of high risk breast carcinoma. Hecht JR, et al. **Cancer** 1997 May 1; 79(9):1698-702

Interstitial pneumonitis as a late complication of high dose therapy with cyclophosphamide/thiotepa and peripheral blood progenitor cell rescue for carcinoma of the breast. Mahendra P, et al. **Clin Oncol (R Coll Radiol)** 1996; 8(3):198-200

Successful treatment of hepatic veno-occlusive disease in a peripheral blood progenitor cell transplant patient with a transjugular intrahepatic portosystemic stent-shunt (TIPS). de la Rubia J, et al. **Haematologica** 1996 Nov-Dec; 81(6):536-9

Massive delayed hemolysis following peripheral blood stem cell transplantation with minor ABO incompatibility. Laurencet FM, et al. **Hematol Cell Ther** 1997 Jun; 39(3):159-62

Graft-versus-host disease and graft-versus-leukemia. Michallet M. **Hematol Cell Ther** 1996 Oct;38(5):459-60 (15 ref.)

Low-dose filgrastim significantly enhances neutrophil recovery following autologous peripheral-blood stem-cell transplantation in patients with lymphoproliferative disorders: evidence for clinical and economic benefit. McQuaker IG, et al. **J Clin Oncol** 1997 Feb;15(2):451-7

Myeloid progenitors in remission bone marrow in patients with malignant blood diseases: clues for slow hematopoietic regeneration after ABMT? Hokland P, et al.
J Hematother 1996 Jun;5(3):279-88

Concomitant mobilization of plasma cells and hematopoietic progenitors into peripheral blood of patients with multiple myeloma. Lemoli RM, et al. **J Hematother** 1996 Aug; 5(4):339-49

Cytomegalovirus pp65 antigenemia after autologous marrow and peripheral blood stem cell transplantation. Boeckh M, et al. **J Infect Dis** 1996 Nov;174(5):907-12

Steroid-refractory cutaneous graft-versus-host disease after transplantation of haploidentical parental CD34+ cells in children with Down's syndrome and recurrent acute leukemia. Mogul MJ, et al. **J Pediatr Hematol Oncol** 1997 Mar-Apr;19(2):142-4

Longterm followup and quality of life after hematopoietic stem cell transplantation. Sullivan KM.
J Rheumatol Suppl 1997 May;48:46-52 (50 ref.)

Antimycotic therapy with liposomal amphotericin-B for patients undergoing bone marrow or peripheral blood stem cell transplantation. Krüger W, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):491-9

Antimicrobial prophylaxis to prevent opportunistic infections in patients with chronic lymphocytic leukemia after allogeneic blood or marrow transplantation. Mehta J, et al. **Leuk Lymphoma** 1997 Jun;26(1-2):83-8

High risk of therapy-related leukemia after BEAM chemotherapy and autologous stem cell transplantation for previously treated lymphomas is mainly related to primary chemotherapy and not to the BEAM-transplantation procedure. Pedersen-Bjergaard J, et al. **Leukemia** 1997 Oct; 11(10):1654-60

Hepatic veno-occlusive disease after myeloablative treatment and bone marrow transplantation: value of gray-scale and Doppler US in 100 patients. Lassau N, et al. **Radiology** 1997 Aug;204(2):545-52

Microbiologic contamination of peripheral blood progenitor cells collected for hematopoietic cell transplantation. Espinosa MT, et al. **Transfusion** 1996 Sep;36(9):789-93

[Gastrointestinal complications in stem cell transplantation] Karthaus M, et al. **Dtsch Med Wochenschr** 1997 Sep 12; 122(37):1121-7 (41 ref.) **(Ger)**

[The prevention of hemorrhagic cystitis during the performance of bone marrow and peripheral blood stem cell transplantation in the hematologic cancer clinic] Uss AL, et al. **Ter Arkh** 1996;68(10):49-52 (Eng. Abstr.) **(Rus)**

[Toxic complications of high-dose polychemotherapy in the transplantation of bone marrow and of peripheral blood stem cells] Uss AL, et al. **Ter Arkh** 1997;69(2):46-50 (Eng. Abstr.) **(Rus)**

[Granulocyte recovery and early infection complications in oncologic pediatric patients treated with hematopoietic stem cell transplantation] Cañete Nieto A, et al.
An Esp Pediatr 1997 May;46(5):428-32 (Eng. Abstr.) **(Spa)**

ECONOMICS

Peripheral blood stem cell and bone marrow transplantation for solid tumors and lymphomas: hematologic recovery and costs. A randomized, controlled trial. Hartmann O, et al. **Ann Intern Med** 1997 Apr 15;126(8):600-7

An economic evaluation of peripheral blood stem cell transplantation as an alternative to autologous bone marrow transplantation in multiple myeloma. Duncan N, et al.
Bone Marrow Transplant 1996 Dec;18(6):1175-8

Economic analysis of a randomized clinical trial to compare filgrastim-mobilized peripheral-blood progenitor-cell transplantation and autologous bone marrow transplantation in patients with Hodgkin's and non-Hodgkin's lymphoma. Smith TJ, et al.
J Clin Oncol 1997 Jan;15(1):5-10

Economic analyses of new technologies: the case of stem-cell transplantation [editorial; comment] Waters TM, et al.
J Clin Oncol 1997 Jan;15(1):2-4. Comment on: J Clin Oncol 1997 Jan;15(1):5-10.

A review of the costs, cost-effectiveness and third-party charges of bone marrow transplantation. Westerman IL, et al. **Stem Cells** 1996 May;14(3):312-9 (25 ref.)

[Difference in costs of autologous transplantation of peripheral and bone marrow hematopoietic stem cells. A retrospective analysis over 1 year of transplantation in lymphoma, Hodgkin's disease and myeloma in a Center] Rio B, et al. **Ann Med Interne (Paris)** 1996;147(5):313-9 (Eng. Abstr.) **(Fre)**

[Economic costs of autologous hematopoietic progenitor cell transplantation (letter)] Manasanch L, et al.
Med Clin (Barc) 1997 Apr 12;108(14):558 **(Spa)**

HISTORY

The evolution of clinical peripheral blood stem cell transplantation. Körbling M, et al.
Bone Marrow Transplant 1996 May;17(5):675-8

From stem cells to lymphocytes: biology and transplantation. Aguila HL, et al. **Immunol Rev** 1997 Jun;157:13-40 (282 ref.)

Immunology of hematopoietic stem cell transplantation: a brief review of its history. Dupont B. **Immunol Rev** 1997 Jun;157:5-12 (44 ref.)

INSTRUMENTATION

Tunneled, double lumen Broviac catheters are useful, efficient and safe in children undergoing peripheral blood progenitor cell harvesting and transplantation. Leibundgut K, et al. **Bone Marrow Transplant** 1996 Apr;17(4):663-7

Non-tunneled catheters for the collection and transplantation of peripheral blood stem cells in children. Madero L, et al. **Bone Marrow Transplant** 1997 Jul;20(1):53-6

LEGISLATION & JURISPRUDENCE

Joint position paper on the regulatory approach to hematopoietic cell components in the United States [editorial] **J Hematother** 1997 Apr;6(2):91-2

METHODS

Treatment of human fetuses and induction of immunological tolerance in humans by in utero transplantation of stem cells into fetal recipients. Touraine JL. **Acta Haematol** 1996; 96(3):115-9

Irradiated blood components [letter; comment] Benson K, et al. **Am J Clin Pathol** 1997 Feb;107(2):251; discussion 253-4. Comment on: Am J Clin Pathol 1996 Jul;106(1):6-11.

Erythropoietin permits high-dose chemotherapy with peripheral blood stem-cell transplant for a Jehovah's Witness [letter] Estrin JT, et al. **Am J Hematol** 1997 May; 55(1):51-2

Purging of peripheral blood progenitor cells. Brugger W, et al. **Ann Oncol** 1996;7 Suppl 2:11-3 (23 ref.)

Mobilization/transplantation of Ph1-negative blood progenitor cells in chronic myelogenous leukaemia. Carella AM, et al. **Ann Oncol** 1996;7 Suppl 2:19-22 (27 ref.)

Cord blood as an alternative source of haemopoietic stem cells. Hows J, et al. **Ann Oncol** 1996;7 Suppl 2:47-51 (19 ref.)

Intensive therapy with peripheral stem cell transplantation in 16 patients with mantle cell lymphoma. Ketterer N, et al. **Ann Oncol** 1997 Jul;8(7):701-4

Peripheral blood stem cells for autografting. Shpall EJ, et al. **Annu Rev Med** 1997;48:241-51 (57 ref.)

Quantitation of circulating hematopoietic progenitor cells early after transplantation. Gebauer W, et al.
Beitr Infusionsther Transfusionsmed 1996;33:165-9

Storage of peripheral blood stem cell samples alters flow cytometric CD34+ results. Gutensohn K, et al.
Beitr Infusionsther Transfusionsmed 1996;33:170-4

Circulating immature cell counts on the harvest day predict the yields of CD34+ cells collected after granulocyte colony-stimulating factor plus chemotherapy-induced mobilization of peripheral blood stem cell [letter] Teshima T, et al. **Blood** 1997 Jun 15;89(12):4660-1

Ex vivo expansion of CD34+ peripheral blood progenitor cells: implications for the expansion of contaminating epithelial tumor cells. Vogel W, et al. **Blood** 1996 Oct 1; 88(7):2707-13

Adenoviral vectors in hematology: purging, stem cell gene transfer, or both [letter; comment] Wroblewski JM, et al. **Blood** 1997 Jun 15;89(12):4664-5. Comment on: Blood 1996 Jun 15;87(12):5032-9.

Severe combined immunodeficiency mice engrafted with human T cells, B cells, and myeloid cells after transplantation with human fetal bone marrow or liver cells and implanted with human fetal thymus: a model for studying human gene therapy. Yurasov S, et al. **Blood** 1997 Mar 1;89(5):1800-10

Haploidentical cord blood transplant contaminated with maternal T cells in a patient with advanced leukaemia. Abecasis MM, et al. **Bone Marrow Transplant** 1996 May; 17(5):891-5

Preliminary results of stem cell mobilization in chronic myeloid leukemia with a moderate intensity chemotherapy regimen and G-CSF or G-CSF plus IL-3. Aulitzky WE, et al. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S67-9

Transplant of bone marrow and cord blood hematopoietic stem cells in pediatric practice, revisited according to the fundamental principles of bioethics. Burgio GR, et al.
Bone Marrow Transplant 1997 Jun;19(12):1163-8 (50 ref.)

Autologous transplantation with peripheral blood stem cells collected after granulocyte colony-stimulating factor in patients with acute myelogenous leukemia. Demirer T, et al. **Bone Marrow Transplant** 1996 Jul;18(1):29-34

Peripheral blood progenitor cell (PBPC) transplantation with a single apheresis in various malignancies [letter] Efremidis AP, et al. **Bone Marrow Transplant** 1996 Apr;17(4):673-4

Allogeneic transplantation of positively selected peripheral blood CD34+ progenitor cells from matched related donors. Finke J, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1081-6

Autografting Ph-negative blood precursor cells in chronic myeloid leukaemia. Frassoni F, et al.
Bone Marrow Transplant 1996 May;17 Suppl 3:S59-62

Umbilical cord blood transplant in human. Gluckman E.
Bone Marrow Transplant 1996 Nov;18 Suppl 2:166-70 (17 ref.)

Mobilization of peripheral blood progenitor cells with high-dose cyclophosphamide (4 or 7 g/m2) and granulocyte colony-stimulating factor in patients with multiple myeloma. Goldschmidt H, et al.
Bone Marrow Transplant 1996 May;17(5):691-7

Peripheral blood stem cell transplantation in myeloma using CD34 selected cells. Johnson RJ, et al.
Bone Marrow Transplant 1996 May;17(5):723-7

Third autologous stem cell transplants for late relapse of multiple myeloma. Jourdan E, et al.
Bone Marrow Transplant 1996 May;17(5):885-6

Use of rhG-CSF in the collection of peripheral blood stem cells for autologous blood stem cell transplantation in acute myeloblastic leukemia. Jurado M, et al.
Bone Marrow Transplant 1996 Oct;18(4):821-2

Allogeneic peripheral blood stem cell transplantation using normal patient-related pediatric donors. Körbling M, et al. **Bone Marrow Transplant** 1996 Nov;18(5):885-90

Delayed effects of rhG-CSF mobilization treatment and apheresis on circulating CD34+ and CD34+ Thy-1dim CD38- progenitor cells, and lymphoid subsets in normal stem cell donors for allogeneic transplantation. Körbling M, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1073-9

Autologous stem cell transplantation with stem cells preserved in the presence of 4.5 and 2.2% DMSO [letter] Lakota J, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):262-3

Peripheral blood stem cell (PBSC) collection in extremely low-weight infants. Nussbaumer W, et al.
Bone Marrow Transplant 1996 Jul;18(1):15-7

Granisetron in the prevention of vomiting induced by conditioning for stem cell transplantation: a prospective randomized study. Okamoto S, et al.
Bone Marrow Transplant 1996 May;17(5):679-83

Imprecision of counting CFU-GM colonies and CD34-expressing cells. Serke S, et al. **Bone Marrow Transplant** 1997 Jul;20(1):57-61

Relevance of myeloablative conditioning in the engraftment of limiting numbers of normal and genetically marked lympho-hematopoietic stem cells. Varas F, et al. **Bone Marrow Transplant** 1996 Nov;18(5):981-9

Peripheral blood stem cell apheresis in normal donors: feasibility and yield of second collections. Anderlini P, et al. **Br J Haematol** 1997 Feb;96(2):415-7

In vivo mobilization of karyotypically normal peripheral blood progenitor cells in high-risk MDS, secondary or therapy-related acute myelogenous leukaemia. Carella AM, et al. **Br J Haematol** 1996 Oct;95(1):127-30

ICE, mini-ICE or high-dose hydroxyurea to mobilize Philadelphia (Ph1)-negative PBPC in chronic myelogenous leukaemia [letter; comment] Carella AM, et al. **Br J Haematol** 1996 Oct;95(1):213-5. Comment on: Br J Haematol 1996 Jun 2;93(4):863-8.

Successful autografting in chronic myelogenous leukaemia using Philadelphia negative blood progenitor cells mobilized with rHuG-CSF alone in a patient responding to alpha-interferon. Carreras E, et al. **Br J Haematol** 1997 Feb;96(2):421-3

Treatment of chronic myeloid leukaemia in first chronic phase with idarubicin and cytarabine: mobilization of Philadelphia-negative peripheral blood stem cells. Chalmers EA, et al. **Br J Haematol** 1997 Mar;96(3):627-34

Successful engraftment of haploidentical stem cell transplant for familial haemophagocytic lymphohistiocytosis using both bone marrow and peripheral blood stem cells. Collins P, et al. **Br J Haematol** 1997 Mar;96(3):644-6

Prospective randomized study comparing the efficacy of bioequivalent doses of glycosylated and nonglycosylated rG-CSF for mobilizing peripheral blood progenitor cells. de Arriba F, et al. **Br J Haematol** 1997 Feb;96(2):418-20

Allogeneic peripheral blood progenitor cell (PBPC) transplantation in children with haematological malignancies. Diaz MA, et al. **Br J Haematol** 1997 Jan; 96(1):161-4

Immunomagnetic selection of CD34+ peripheral blood stem cells for autografting in patients with breast cancer. Hohaus S, et al. **Br J Haematol** 1997 Jun;97(4):881-8

Mobilization of predominantly Philadelphia chromosome-negative blood progenitors using cyclophosphamide and rHUG-CSF in early chronic-phase chronic myeloid leukaemia: correlation with Sokal prognostic index and haematological control. Hughes TP, et al. **Br J Haematol** 1997 Mar;96(3):635-40

Progenitor cell yield in sequential blood stem cell mobilization in the same patients: insights into chemotherapy dose escalation and combination of haemopoietic growth factor and chemotherapy. Lie AK, et al. **Br J Haematol** 1996 Oct;95(1):39-44

Stem cell mobilization in resistant or relapsed lymphoma: superior yield of progenitor cells following a salvage regimen comprising ifosphamide, etoposide and epirubicin compared to intermediate-dose cyclophosphamide. McQuaker IG, et al. **Br J Haematol** 1997 Jul;98(1):228-33

A pilot study of 220 mg/m2 melphalan followed by autologous stem cell transplantation in patients with advanced haematological malignancies: pharmacokinetics and toxicity. Moreau P, et al. **Br J Haematol** 1996 Dec; 95(3):527-30

Intermediate-dose busulphan before autografting for advanced-phase chronic myeloid leukaemia. Rule SA, et al. **Br J Haematol** 1996 Sep;94(4):694-8

Transplantation of peripheral blood progenitor cells from HLA-identical sibling donors. European Group for Blood and Marrow Transplantation (EBMT). Schmitz N, et al. **Br J Haematol** 1996 Dec;95(4):715-23

Biological properties of peripheral blood progenitor cells mobilized by cyclophosphamide and granulocyte colony-stimulating factor. Scott MA, et al. **Br J Haematol** 1997 May;97(2):474-80

Autologous stem cell transplantation: evaluation of erythropoietic reconstitution by highly fluorescent reticulocyte counts, erythropoietin, soluble transferrin receptors, ferritin, TIBC and iron dosages. Testa U, et al. **Br J Haematol** 1997 Mar;96(4):762-75

Autologous bone marrow support and bone disease in metastatic breast cancer. Nabholtz JM, et al. **Can J Oncol** 1995 Jul;5(2):369-75 (31 ref.)

Positive selection and ex vivo expansion of hematopoietic progenitors as autografts for high-dose chemotherapy, potential importance in patients with bone metastases. Purdy MH. **Can J Oncol** 1995 Dec;5 Suppl 1:63-8

High dose etoposide-based myeloablative therapy followed by autologous blood progenitor cell rescue in the treatment of multiple myeloma. Long GD, et al. **Cancer** 1996 Dec 15;78(12):2502-9

Autologous and allogeneic blood stem cell transplantation: potential advantage of blood-over marrow-derived stem cell grafts. Körbling M. **Cancer Invest** 1997;15(2):127-37 (77 ref.)

The role of granulocyte colony-stimulating factor in hematopoietic stem cell transplantation. Tabbara IA, et al. **Cancer Invest** 1997;15(4):353-7 (43 ref.)

Allogeneic umbilical cord blood transplantation. Wagner JE. **Cancer Treat Res** 1997;77:187-216 (71 ref.)

The CD34 antigen: potential clinical advantages of CD34 selection. Holyoake TL, et al. **Clin Oncol (R Coll Radiol)** 1996;8(4):214-21 (78 ref.)

Hematopoietic cell transplantation for the induction of allo- and xenotolerance. Sykes M. **Clin Transplant** 1996 Aug; 10(4):357-63 (48 ref.)

Mobilization of peripheral blood progenitor cells for allogeneic transplantation. Teshima A, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):101-14 (106 ref.)

Peripheral blood progenitor cell (PBPC) transplantation with a single apheresis in patients with lymphoma, myeloma and solid tumors. Efremidis AP, et al. **Eur J Haematol** 1996 Oct;57(4):269-77

Mobilization and collection of PBSC in healthy donors: a retrospective analysis of the Italian Bone Marrow Transplantation Group (GITMO). Majolino I, et al. **Haematologica** 1997 Jan-Feb;82(1):47-52

Delineation of the human hematolymphoid system: potential applications of defined cell populations in cellular therapy. Chen BP, et al. **Immunol Rev** 1997 Jun;157:41-51 (65 ref.)

Hematopoietic stem cell transplants from unrelated donors. Hansen JA, et al. **Immunol Rev** 1997 Jun;157:141-51 (68 ref.)

Successful collection and transplantation of peripheral blood stem cells in cancer patients using large-volume leukaphereses. Murea S, et al. **J Clin Apheresis** 1996; 11(4):185-94

Safety of large-volume leukapheresis for collection of peripheral blood progenitor cells. Reik RA, et al. **J Clin Apheresis** 1997;12(1):10-3 (16 ref.)

Engraftment and molecular monitoring of CD34+ peripheral-blood stem-cell transplants for follicular lymphoma: a pilot study. McQuaker IG, et al. **J Clin Oncol** 1997 Jun;15(6):2288-95

Gene marking and gene therapy for transplantation medicine. Dilloo D, et al. **J Hematother** 1996 Oct;5(5):553-5 (7 ref.)

Using mislabeled medium: who is at fault? [letter] Noga SJ, et al. **J Hematother** 1996 Oct;5(5):445-7

Rapid debulking and CD34 enrichment of filgrastim-mobilized peripheral blood stem cells by semiautomated density gradient centrifugation in a closed system. Przepiorka D, et al. **J Hematother** 1996 Oct; 5(5):497-502

Comparative analysis of breast cancer contamination in mobilized and nonmobilized hematopoietic grafts. Ross AA, et al. **J Hematother** 1996 Oct;5(5):549-52

Autologous stem cell transplantation for autoimmune diseases: issues in protocol development. McSweeney PA, et al. **J Rheumatol Suppl** 1997 May;48:79-84

Stem cell transplantation for severe autoimmune disorders, with special reference to rheumatic diseases. Marmont AM. **J Rheumatol Suppl** 1997 May;48:13-8 (48 ref.)

Interleukin-6 and granulocyte colony-stimulating factor synergistically increase peripheral blood progenitor cells in myelosuppressive mice. Suzuki H, et al. **Jpn J Cancer Res** 1996 Sep;87(9):938-44

Autologous haemopoietic stem cell transplantation [letter; comment] Collins RH. **Lancet** 1997 Mar 22;349(9055):881 . Comment on: Lancet 1997 Jan 25;349(9047):254.

In-utero transplantation of parental CD34 haematopoietic progenitor cells in a patient with X-linked severe combined immunodeficiency (SCIDXI). Wengler GS, et al. **Lancet** 1996 Nov 30;348(9040):1484-7

Rationalizing autotransplant strategies for chronic myeloid leukemia. Daley GQ. **Leuk Lymphoma** 1996 May; 21(5-6):353-8 (39 ref.)

CD34+Thy-1+Lin- stem cells from mobilized peripheral blood. Murray LJ, et al. **Leuk Lymphoma** 1996 Jun; 22(1-2):37-42, follow. 186, color plate I (57 ref.)

Mobilization of peripheral blood progenitor cells following CHOP treatment combined with delayed granulocyte colony-stimulating factor administration in patients with non-Hodgkin's lymphoma. Takano H, et al. **Leuk Lymphoma** 1996 May;21(5-6):473-8

Preclinical studies of streptolysin-O in enhancing antisense oligonucleotide uptake in harvests from chronic myeloid leukaemia patients. Broughton CM, et al. **Leukemia** 1997 Sep;11(9):1435-41

The 30/35 kDa chymotryptic fragment of fibronectin enhances retroviral-mediated gene transfer in purified chronic myelogenous leukemia bone marrow progenitors. Traycoff CM, et al. **Leukemia** 1997 Jan;11(1):159-67

Autologous peripheral blood stem cells: collection and processing. Hansson M, et al. **Med Oncol** 1996 Jun; 13(2):71-9 (50 ref.)

Efficacy and toxicity of radiation in preparative regimens for pediatric stem cell transplantation. I: Clinical applications and therapeutic effects. Miale TD, et al. **Med Oncol** 1995 Dec;12(4):231-49 (162 ref.)

Cellular therapy. Flake AW, et al. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):159-77 (20 ref.)

Policies and procedures for the establishment of an allogeneic blood stem cell collection programme. Stroncek D, et al. **Transfus Med** 1997 Jun;7(2):77-87 (32 ref.)

Comparison of two blood cell separators in collecting peripheral blood stem cell components. Stroncek DF, et al. **Transfus Med** 1997 Jun;7(2):95-9

Evaluation of methods for preparing and thawing cryopreserved CD34+ and CD34- cell lines for use as reagents in flow cytometry of hematopoietic progenitor cells. Bowman CA, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):985-8

Concentration of citrate anticoagulant in peripheral blood progenitor cell collections [see comments] Burger SR, et al. **Transfusion** 1996 Sep;36(9):798-801. Comment in: Transfusion 1997 Jul;37(7):768.

Citrate ratio in collection of peripheral blood progenitors [letter; comment] Gorlin JB, et al. **Transfusion** 1997 Jul; 37(7):768. Comment on: Transfusion 1996 Sep;36(9):798-801.

Analysis of apheresis content of progenitor cell collections from normal donors to whom granulocyte-colony-stimulating factor is administered. Weinthal JA, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):943-7

Transplantation of hemopoietic cells from the fetal liver to treat patients with congenital diseases postnatally or prenatally. Touraine JL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):712-3

[Successful transplantation of fetal blood in a boy with leukocyte integrin deficiency syndrome] Starý J, et al. **Cas Lek Cesk** 1996 Nov 6;135(21):695-8 (Eng. Abstr.) **(Cze)**

[Contribution of hematopoietic growth factors and especially in the context of grafts of hematopoietic stem cells] Fouillard L. **Ann Pharm Fr** 1996;54(4):157-61 (Eng. Abstr.) **(Fre)**

[In utero cellular therapy] Forestier F. **Contracept Fertil Sex** 1997 Jun;25(6):I-IV **(Fre)**

[Transplantation of hematopoietic stem cells] Hertenstein B, et al. **Internist (Berl)** 1996 Mar;37(3):295-303 (41 ref.) **(Ger)**

[The usefulness of high dose etoposide for peripheral blood stem cell harvest] Yamamuro O, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Nov; 48(11):1097-100 **(Jpn)**

[Collection and processing of umbilical cord blood for transplantation] Regidor C, et al. **Sangre (Barc)** 1997 Apr; 42(2):117-22 (39 ref.) **(Spa)**

PSYCHOLOGY

Health-related quality of life in women with breast cancer undergoing autologous stem-cell transplantation. Larsen J, et al. **Cancer Nurs** 1996 Oct;19(5):368-75

Blood cell transplantation: its impact on one family. Rivera LM. **Semin Oncol Nurs** 1997 Aug;13(3):194-9

STANDARDS

Standards for PBSC mobilisation and collection. Linch DC, et al. **Ann Oncol** 1996;7 Suppl 2:9-10 (11 ref.)

German consensus on immunogenetic donor search for transplantation of allogeneic bone marrow and peripheral blood stem cells. Ottinger HD, et al. **Bone Marrow Transplant** 1997 Jul;20(2):101-5

Survey of supportive care standards for paediatric allogeneic stem cell transplantation patients in Europe: a first report from the EBMT Paediatric Diseases Working Party. Peters C, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:17-24

Joint position paper on the regulatory approach to hematopoietic cell components in the United States [editorial] **J Hematother** 1997 Apr;6(2):91-2

North American Multicenter Study on flow cytometric enumeration of CD34+ hematopoietic stem cells [see comments] Brecher ME, et al. **J Hematother** 1996 Jun; 5(3):227-36. Comment in: J Hematother 1996 Jun;5(3):209-10. Comment in: J Hematother 1996 Jun;5(3):211-2.

Standardization of absolute CD34 cell enumeration [letter; comment] Knape CC. **J Hematother** 1996 Jun;5(3):211-2. Comment on: J Hematother 1996 Jun;5(3):227-36.

The ISHAGE guidelines for CD34+ cell determination by flow cytometry. International Society of Hematotherapy and Graft Engineering. Sutherland DR, et al. **J Hematother** 1996 Jun;5(3):213-26

Assessment of peripheral blood stem cell grafts by CD34+ cell enumeration: toward a standardized flow cytometric approach [editorial; comment] Sutherland DR. **J Hematother** 1996 Jun;5(3):209-10. Comment on: J Hematother 1996 Jun;5(3):227-36.

Regulation of placental and umbilical cord blood stem cells [editorial] Wagner JE. **J Hematother** 1997 Feb;6(1):1-3

Ethical issues in umbilical cord blood banking. Working Group on Ethical Issues in Umbilical Cord Blood Banking. Sugarman J, et al. **JAMA** 1997 Sep 17;278(11):938-43 (31 ref.)

The blood cell transplant program. Nelson JP. **Semin Oncol Nurs** 1997 Aug;13(3):208-15 (23 ref.)

Future considerations in transplantation. Wujcik D. **Semin Oncol Nurs** 1997 Aug;13(3):216-8 (20 ref.)

Sources and sequelae of bacterial contamination of hematopoietic stem cell components: implications for the safety of hematotherapy and graft engineering. Webb IJ, et al. **Transfusion** 1996 Sep;36(9):782-8

STATISTICS & NUMERICAL DATA

Blood and marrow transplantation activity in Europe 1995. European Group for Blood and Marrow Transplantation (EBMT). Gratwohl A, et al. **Bone Marrow Transplant** 1997 Mar;19(5):407-19

Outcome of cord-blood transplantation from related and unrelated donors. Eurocord Transplant Group and the European Blood and Marrow Transplantation Group. Gluckman E, et al. **N Engl J Med** 1997 Aug 7;337(6):373-81

HEMATOPOIETIC STEM CELL TRANSPLANTATION

Donor peripheral blood stem cell infusions in recipients of living-related liver allografts. Tsaroucha AK, et al. **Transplantation** 1997 Jul 27;64(2):362-4

[Intensive chemotherapy with hematopoietic stem cell autograft in solid malignant tumors in children: current evaluation and prespectives (editorial)] Sommelet D. **Arch Pediatr** 1996 Jul;3(7):643-8 (17 ref.) **(Fre)**

[Hemopoietic progenitor cell transplantation: 20 years' experience at the Hematology School "Farreras-Valenti"/Clinical Hospital of Barcelona] Rozman C, et al. **Med Clin (Barc)** 1997 May 10;108(18):681-6 (Eng. Abstr.) **(Spa)**

TRENDS

Stem cell transplantation: past, present and future. Thomas ED. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):1-5 (31 ref.)

Peripheral blood stem cell transplantation in common solid tumours: passing phase or new era? [editorial] Ledermann JA. **Clin Oncol (R Coll Radiol)** 1996;8(4):209-11 (21 ref.)

The potential of bone marrow stem cell transplantation in the treatment of autoimmune diseases [editorial] Messner RP. **J Rheumatol** 1997 May;24(5):819-21

Hematopoietic stem cell transplants for autoimmune disease: role of EULAR. European League Against Rheumatism. van de Putte LB, et al. **J Rheumatol Suppl** 1997 May; 48:98-9

Future considerations in transplantation. Wujcik D. **Semin Oncol Nurs** 1997 Aug;13(3):216-8 (20 ref.)

Future trends in the transplantation of hematopoietic cells. Wiktor-Jedrzejczak W. **Transplant Proc** 1996 Dec; 28(6):3423-5 (24 ref.)

[Blood stem-cell transplantation. Its current status and outlook] Lange W, et al. **Dtsch Med Wochenschr** 1997 Jan 31;122(5):129-31 (11 ref.) **(Ger)**

UTILIZATION

The use of mobilized peripheral blood stem cells from normal donors for allografting. Anderlini P, et al. **Stem Cells** 1997; 15(1):9-17 (56 ref.)

HEMATOPOIETIC STEM CELLS

see related

COLONY-FORMING UNITS ASSAY

Scientific, logistical, and ethical issues related to creation of a stem cell repository for use in experimental trials of gene therapy for AIDS. Fraser JK, et al. **AIDS Res Hum Retroviruses** 1997 Jul 20;13(11):905-7

Association of immunophenotype with cerebrospinal fluid involvement in childhood B-lineage acute lymphoblastic leukemia. Donskoy E, et al. **Am J Clin Pathol** 1997 May; 107(5):608-16

Increased levels of CD34+ hemopoietic progenitor cells in atopic subjects. Sehmi R, et al. **Am J Respir Cell Mol Biol** 1996 Nov;15(5):645-55

Transduction of human hematopoietic progenitor cells with retroviral vectors based on the gibbon ape leukemia virus. Eglitis MA, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):477-80

Novel approaches in blood and marrow transplantation. Report on the 2nd annual scientific meeting of The American Society for Blood and Marrow Transplantation. Joint Special Conference with the American Association for Cancer Research. Jointly sponsored by the College of Physicians and Surgeons of Columbia University. October 2-6, 1996, San Diego, CA. **Biol Blood Marrow Transplant** 1996 Oct;2(3):145-72

Stable transduction of recombinant adeno-associated virus into hematopoietic stem cells from normal and sickle cell patients. Lubovy M, et al. **Biol Blood Marrow Transplant** 1996 Feb;2(1):24-30

Selection of murine lymphoid and hematopoietic cells using polystyrene tissue culture devices containing covalently immobilized antibody. Berson AE, et al. **Biotechniques** 1996 Jun;20(6):1098-103

Peripheral blood stem cell apheresis in normal donors: the neglected side [letter; comment] Anderlini P, et al. **Blood** 1996 Nov 1;88(9):3663-4. Comment on: Blood 1996 Jun 1;87(11):4916-7.

Estimation of the number of hematopoietic precursor cells during fetal mouse development by covariance analysis. Berger CN, et al. **Blood** 1996 Oct 1;88(7):2502-9

Frequency of fetal cells in sorted subpopulations of nucleated erythroid and CD34+ hematopoietic progenitor cells from maternal peripheral blood. Little MT, et al. **Blood** 1997 Apr 1;89(7):2347-58

CD34+ cell dose predicts survival, posttransplant morbidity, and rate of hematologic recovery after allogeneic marrow transplants for hematologic malignancies. Mavroudis D, et al. **Blood** 1996 Oct 15;88(8):3223-9

Stable mixed hematopoietic chimerism in DLA-identical littermate dogs given sublethal total body irradiation before and pharmacological immunosuppression after marrow transplantation. Storb R, et al. **Blood** 1997 Apr 15; 89(8):3048-54

Circulating immature cell counts on the harvest day predict the yields of CD34+ cells collected after granulocyte colony-stimulating factor plus chemotherapy-induced mobilization of peripheral blood stem cell [letter] Teshima T, et al. **Blood** 1997 Jun 15;89(12):4660-1

Large-volume leukapheresis for peripheral blood stem cell collection in children: a simplified single-apheresis approach. Alegre A, et al. **Bone Marrow Transplant** 1996 Jun;17(6):923-7

Counterflow centrifugal elutriation as a method of T cell depletion may cause loss of immature CD34+ cells. Chang Q, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1145-50

Dose-dependent mobilisation of haematopoietic progenitor cells in healthy volunteers receiving glycosylated rHuG-CSF. Höglund M, et al. **Bone Marrow Transplant** 1996 Jul;18(1):19-27

Improved yield of peripheral blood progenitor cells on the Cobe Spectra. Jestice HK, et al. **Bone Marrow Transplant** 1996 Sep;18(3):597-601

Peripheral blood progenitor cell collections in children with low platelet counts are safe [letter] Leibundgut K, et al. **Bone Marrow Transplant** 1997 Aug;20(4):345-6

The absolute number of circulating CD34+ cells predicts the number of hematopoietic stem cells that can be collected by apheresis. Schots R, et al. **Bone Marrow Transplant** 1996 Apr;17(4):509-15

Imprecision of counting CFU-GM colonies and CD34-expressing cells. Serke S, et al. **Bone Marrow Transplant** 1997 Jul;20(1):57-61

Effect of the in vivo priming regimen for peripheral blood stem cells (PBSC) mobilization on in vitro generation of cytotoxic effectors by IL-2 activation of PBSC in a murine model. Verma UN, et al. **Bone Marrow Transplant** 1997 Feb;19(3):265-73

Density enrichment and characterization of hematopoietic progenitors and stem cells from umbilical cord blood. Yurasov SV, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):517-25

Collection of circulating progenitor cells after epirubicin, paclitaxel and filgrastim in patients with metastatic breast cancer. Pedrazzoli P, et al. **Br J Cancer** 1997;75(9):1368-72

Combined negative and positive selection of mobilized CD34 blood cells. Di Nicola M, et al. **Br J Haematol** 1996 Sep; 94(4):716-21

In vitro maintenance and retroviral transduction of human myeloma cells in long-term marrow cultures. Stewart AK, et al. **Cancer Gene Ther** 1997 May-Jun;4(3):148-56

Primitive hematopoietic stem and progenitor cells in human umbilical cord blood: an alternative source of transplantable cells. Broxmeyer HE. **Cancer Treat Res** 1996; 84:139-48 (72 ref.)

Adeno-associated virus vectors for gene therapy of the hematopoietic system. Chatterjee S, et al. **Curr Top Microbiol Immunol** 1996;218:61-73 (55 ref.)

Gene transduction into murine primitive hematopoietic cells with 2-gene retroviral vectors using a Transwell coculture system. Asami N, et al. **Eur J Haematol** 1996 Oct; 57(4):278-85

CFU-GM are not increased in peripheral blood of patients with chronic lymphocytic leukaemia [letter; comment] Scalzulli PR, et al. **Eur J Haematol** 1996 Aug;57(2):180-1 . Comment on: Eur J Haematol 1995 Apr;54(4):235-40.

A clinically suitable ex vivo expansion culture system for LTC-IC and CFC using stroma-conditioned medium. Bhatia R, et al. **Exp Hematol** 1997 Aug;25(9):980-91

G-CSF-mobilized peripheral blood progenitor cells: in vitro growth pattern and hematopoietic growth factor receptor profile. Roberts AW, et al. **Exp Hematol** 1997 Apr; 25(4):298-305

Hematopoietic stem cell gene transfer [editorial] Barranger JA. **Gene Ther** 1996 May;3(5):379-80

Constitutive systemic expression of IL-1Ra or soluble TNF receptor by genetically modified hematopoietic cells suppresses LPS induction of IL-6 and IL-10. Doughty LA, et al. **Gene Ther** 1997 Mar;4(3):252-7

Novel retroviral packaging cell lines: complementary tropisms and improved vector production for efficient gene transfer. Forestell SP, et al. **Gene Ther** 1997 Jun;4(6):600-10

Stromal cells maintain the radioprotective capacity of CFU-S during retroviral infection. Goncalves F, et al. **Gene Ther** 1996 Sep;3(9):761-8

Bone marrow gene transfer in three patients with adenosine deaminase deficiency. Hoogerbrugge PM, et al. **Gene Ther** 1996 Feb;3(2):179-83

Loss of retroviral gene expression in bone marrow reconstituted mice correlates with down-regulation of gene expression in long-term culture initiating cells. Lange C, et al. **Gene Ther** 1997 Apr;4(4):303-8

Circulating hematopoietic progenitor cells in leukapheresis: flow cytometric estimation [letter] D'Arena G, et al. **Haematologica** 1996 Jan-Feb;81(1):95-6

When to perform peripheral blood progenitor cell collection in hematological patients? [letter] D'Arena G, et al. **Haematologica** 1997 Jan-Feb;82(1):124-5

Mobilization and collection of PBSC in healthy donors: a retrospective analysis of the Italian Bone Marrow Transplantation Group (GITMO). Majolino I, et al. **Haematologica** 1997 Jan-Feb;82(1):47-52

Transduction of human CD34+ haemopoietic progenitors of various origin using an original retrovirus vector derived from Fr-MuLV and clinically relevant procedures. Cohen-Haguenauer O, et al. **Hematol Cell Ther** 1996 Apr; 38(2):205-6

Gene transfer into hematopoietic cells. Nienhuis AW. **Hematol Cell Ther** 1996 Apr;38(2):204

Gene marking. Brenner M. **Hum Gene Ther** 1996 Oct 20; 7(16):1927-36 (54 ref.)

Frequency analysis of multidrug resistance-1 gene transfer into human primitive hematopoietic progenitor cells using the cobblestone area-forming cell assay and detection of vector-mediated P-glycoprotein expression by rhodamine-123. Fruehauf S, et al. **Hum Gene Ther** 1996 Jun 20;7(10):1219-31

Retrovirus-mediated gene expression in hematopoietic cells correlates inversely with growth factor stimulation. Lu M, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2263-71

Gene transfer into hematopoietic stem cells of nonhuman primates. Van Beusechem VW, et al. **Hum Gene Ther** 1996 Sep 10;7(14):1649-68 (99 ref.)

Identification of the earliest B lineage stage in mouse bone marrow. Li YS, et al. **Immunity** 1996 Dec;5(6):527-35

Characterization of the first definitive hematopoietic stem cells in the AGM and liver of the mouse embryo. Sánchez MJ, et al. **Immunity** 1996 Dec;5(6):513-25

Corepression of RelA and c-rel inhibits immunoglobulin kappa gene transcription and rearrangement in precursor B lymphocytes. Scherer DC, et al. **Immunity** 1996 Dec; 5(6):563-74

Viral vectors for gene therapy of hematopoietic cells. Medin JA, et al. **Immunotechnology** 1997 Mar;3(1):3-19 (103 ref.)

Micropreparation of hemopoietic stem cells from the mouse bone marrow suspension by gravitational field-flow fractionation. Urbánková E, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):449-52

Adjustment of the interface detector (location 71) to the absolute number of mononuclear cells in the peripheral blood: no improvement of the collection efficiency of the Fenwal CS3000 plus during progenitor cell harvests. Baars JW, et al. **J Clin Apheresis** 1997;12(2):68-73

Evaluation of a new protocol for peripheral blood stem cell collection with the Fresenius AS 104 cell separator. Menichella G, et al. **J Clin Apheresis** 1997;12(2):82-6

Factors that influence the collection and engraftment of allogeneic peripheral-blood stem cells in patients with hematologic malignancies. Brown RA, et al. **J Clin Oncol** 1997 Sep;15(9):3067-74

Effect of different chemotherapy regimens on peripheral-blood stem-cell collections in patients with breast cancer receiving granulocyte colony-stimulating factor. Demirer T, et al. **J Clin Oncol** 1997 Feb; 15(2):684-90

Isolation of the most immature population of murine fetal thymocytes that includes progenitors capable of generating T, B, and myeloid cells. Hattori N, et al. **J Exp Med** 1996 Nov 1;184(5):1901-8

Improved retroviral vectors for hematopoietic stem cell protection and in vivo selection. Baum C, et al. **J Hematother** 1996 Aug;5(4):323-9 (40 ref.)

Characteristics of peripheral blood progenitor cells frozen after 24 hours of liquid storage. Beaujean F, et al. **J Hematother** 1996 Dec;5(6):681-6

Improved priming for mobilization of and optimal timing for harvest of peripheral blood stem cells. Knudsen LM, et al. **J Hematother** 1996 Aug;5(4):399-406

Concomitant mobilization of plasma cells and hematopoietic progenitors into peripheral blood of patients with multiple myeloma. Lemoli RM, et al. **J Hematother** 1996 Aug; 5(4):339-49

High purity, recovery, and selection of human blood cells with a novel high gradient magnetic separator. Richards AJ, et al. **J Hematother** 1996 Aug;5(4):415-26

Stem cell mobilization in normal donors. Tabilio A, et al. **J Hematother** 1997 Jun;6(3):227-34

Regulation of placental and umbilical cord blood stem cells [editorial] Wagner JE. **J Hematother** 1997 Feb;6(1):1-3

How should CD34+ cells be analysed? A study of three classes of antibody and five leucocyte preparation procedures. Macey MG, et al. **J Immunol Methods** 1997 May 26;204(2):175-88

Re: B-cell non-Hodgkin's lymphoma: evidence for the t(14;18) translocation in all hematopoietic cell lineages [letter; comment] Siebert R, et al. **J Natl Cancer Inst** 1997 Jan 1;89(1):93-5. Comment on: J Natl Cancer Inst 1996 Jul 17;88(14):973-9.

High-efficiency transduction of human lymphoid progenitor cells and expression in differentiated T cells. An DS, et al. **J Virol** 1997 Feb;71(2):1397-404

Identification of primitive human hematopoietic cells capable of repopulating NOD/SCID mouse bone marrow: implications for gene therapy. Larochelle A, et al. **Nat Med** 1996 Dec;2(12):1329-37

Induction of high levels of allogeneic hematopoietic reconstitution and donor-specific tolerance without myelosuppressive conditioning. Sykes M, et al. **Nat Med** 1997 Jul;3(7):783-7

More or less hematopoietic stem cells [letter; comment] Vickers M. **Nat Med** 1996 Dec;2(12):1281-3. Comment on: Nat Med 1996 Sep;2(9):1011-6.

A common precursor for primitive erythropoiesis and definitive haematopoiesis. Kennedy M, et al. **Nature** 1997 Apr 3;386(6624):488-93

Canine fucosidosis: a model for retroviral gene transfer into haematopoietic stem cells. Ferrara ML, et al. **Neuromuscul Disord** 1997 Jul;7(5):361-6

Storage of newborn stem cells for future use [see comments] Wiley JM, et al. **Obstet Gynecol** 1997 Feb;89(2):300-3. Comment in: Obstet Gynecol 1997 Jun;89(6):1049-50.

Clues to leukemia and blood cell origins revealed [news] **Oncology (Huntingt)** 1996 Jun;10(6):959

Evaluation of methods for preparing and thawing cryopreserved CD34+ and CD34- cell lines for use as reagents in flow cytometry of hematopoietic progenitor cells. Bowman CA, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):985-8

Cryopreservation of hematopoietic progenitor cells with 5-percent dimethyl sulfoxide at -80 degrees C without rate-controlled freezing. Galmés A, et al. **Transfusion** 1996 Sep;36(9):794-7

Combined foscarnet-ganciclovir treatment for cytomegalovirus infections after allogeneic hemopoietic stem cell transplantation. Bacigalupo A, et al. **Transplantation** 1996 Aug 15;62(3):376-80

[Gene transfer in human hematopoietic stem cells isolated from peripheral blood] Mannoni P. **C R Seances Soc Biol Fil** 1996;190(1):67-75 (26 ref.) (Eng. Abstr.) **(Fre)**

[Selection of retroviral vector producing cell lines and gene transfer into hematopoietic cells] Bagnis C, et al. **Hematol Cell Ther** 1996 Apr;38(2):207-9 (Eng. Abstr.) **(Fre)**

[Peripheral blood stem cells] Chabannon C. **Hematol Cell Ther** 1996 Oct;38(5):451-2 **(Fre)**

[Flow cytometry analysis of CD34 expressing hematopoietic cells in blood and cytapheresis products] Gutensohn K, et al. **Infusionsther Transfusionsmed** 1996 Jun;23 Suppl 2:1-23 (68 ref.) **(Ger)**

[Kinetics of peripheral blood CD34-positive cells and optimal timing of blood stem cell harvest after urological anticancer chemotherapy] Nishiyama T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Oct;87(10):1183-90 (Eng. Abstr.) **(Jpn)**

[Induction of apoptosis by fibronectin via its interaction with VLA5] Sugahara H. **Nippon Rinsho** 1996 Jul;54(7):1809-14 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Mobilization and collection of peripheral blood stem cells] Shimazaki C, et al. **Rinsho Ketsueki** 1996 Jul;37(7):574-8 (10 ref.) **(Jpn)**

[Characterization of peripheral blood stem cells] Sonoda Y, et al. **Rinsho Ketsueki** 1996 Jul;37(7):568-73 (12 ref.) **(Jpn)**

[Recombinant fibronectin fragments in stem cell gene therapy] Kato I. **Tanpakushitsu Kakusan Koso** 1997 Jun; 42(8):1296-305 (33 ref.) **(Jpn)**

[The effect of the murine stromal cell line MS-5 on the proliferation and apoptosis of human erythromyeloid leukemic cell line K562] Zaritskiĭ AIu, et al. **Vopr Onkol** 1997;43(3):304-8 (Eng. Abstr.) **(Rus)**

[Gene transfer into hematopoietic cells: the present and the future] Barquinero Máñez J, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):272-6 (34 ref.) **(Spa)**

CHEMISTRY

Solid-phase method for differential display of genes expressed in hematopoietic stem cells. Røsok O, et al. **Biotechniques** 1996 Jul;21(1):114-21

Peripheral blood stem cell harvesting and CD34-positive cell selection. Shpall EJ, et al. **Cancer Treat Res** 1997;77:143-57 (65 ref.)

In vivo ablation of surface immunoglobulin on mature B cells by inducible gene targeting results in rapid cell death [see comments] Lam KP, et al. **Cell** 1997 Sep 19;90(6):1073-83 . Comment in: Cell 1997 Sep 19;90(6):971-3.

Flk-1 expression defines a population of early embryonic hematopoietic precursors. Kabrun N, et al. **Development** 1997 May;124(10):2039-48

Characterization of MEC 14.7, a new monoclonal antibody recognizing mouse CD34: a useful reage for identifying and characterizing blood vessels and hematopoietic precursors. Garlanda C, et al. **Eur J Cell Biol** 1997 Aug; 73(4):368-77

Immunophenotype definition of the stem/progenitor cell compartment. Implications for the identification of blast cells in acute leukemia. Moretti S, et al. **Eur J Histochem** 1996;40 Suppl 1:43-52 (59 ref.)

Characterization of the P-selectin ligand on human hematopoietic progenitors. Tracey JB, et al. **Exp Hematol** 1996 Nov;24(13):1494-500

Current experimental strategies for investigating human hematopoietic stem cell biology. Ratajczak MZ, et al. **Folia Histochem Cytobiol** 1996;34(2):59-67 (31 ref.)

Differences in phycoerythrin- or fluorescein-isothiocyanate conjugated 8G12 on CD34+ cell evaluation. Ortuño F, et al. **Haematologica** 1997 May-Jun;82(3):334-5

No CD117 expression on B progenitors in the regenerating bone marrow [letter] Muroi K, et al. **Int J Hematol** 1997 Aug;66(2):245-7

Thrombomucin, a novel cell surface protein that defines thrombocytes and multipotent hematopoietic progenitors. McNagny KM, et al. **J Cell Biol** 1997 Sep 22; 138(6):1395-407

Differential expression of receptors for hemopoietic growth factors on subsets of CD34+ hemopoietic cells. Wognum AW, et al. **Leuk Lymphoma** 1996 Dec;24(1-2):11-25 (92 ref.)

Cell-surface markers for assessing gene transfer into human hematopoietic cells [see comments] Phillips K, et al. **Nat Med** 1996 Oct;2(10):1154-6 (25 ref.). Comment in: Nat Med 1996 Dec;2(12):1280-1.

CLASSIFICATION

Peripheral blood stem cells mobilized from patients with acute myeloid leukaemia have different platelet repopulating abilities compared with those mobilized from patients with other diseases. Roberts MM, et al. **Bone Marrow Transplant** 1996 Jul;18(1):41-5

Isolation and phenotypic characterization of CD117-positive cells. Neu S, et al. **Leuk Res** 1996 Nov-Dec; 20(11-12):963-71

Functional differences between subpopulations of mobilized peripheral blood-derived CD34+ cells expressing different levels of HLA-DR, CD33, CD38 and c-kit antigens. Sakabe H, et al. **Stem Cells** 1997;15(1):73-81

Comparison of the content and subpopulations of CD3 and CD34 positive cells in bone marrow harvests and G-CSF-mobilized peripheral blood leukapheresis products from healthy adult donors. Hassan HT, et al. **Transpl Immunol** 1996 Dec;4(4):319-23

CYTOLOGY

Homing and trafficking of hemopoietic progenitor cells. Papayannopoulou T, et al. **Acta Haematol** 1997; 97(1-2):97-104 (73 ref.)

Peripheral blood mobilization of hematopoietic stem cells: cytokine-mediated regulation of adhesive interactions within the hematopoietic microenvironment. Santucci MA, et al. **Acta Haematol** 1997;97(1-2):90-6 (52 ref.)

Characterization of the molecules involved in the hematopoietic microenvironment provided by mouse stromal cell line MC3T3-G2/PA6 using a unique reporter system that analyzes the direct cell-to-cell interaction. Satoh M, et al. **Acta Haematol** 1997;98(2):95-103

Identification of hematopoietic stem cells by the SE-9000 automated hematology analyzer in peripheral blood stem cell harvest samples. Takekawa K, et al. **Acta Haematol** 1997;98(1):54-5

Growth and differentiation of eosinophils from human peripheral blood CD 34+ cells. Shalit M. **Allerg Immunol (Paris)** 1997 Jan;29(1):7-10

Characterization of eosinophil progenitor cells in feline bone marrow. Young KM, et al. **Am J Vet Res** 1997 Apr; 58(4):348-53

Interleukin-6 and megakaryocytopoiesis: an update. Baatout S. **Ann Hematol** 1996 Oct;73(4):157-62 (90 ref.)

A statistically significant sex difference in the number of colony-forming cells from human peripheral blood. Hörner S, et al. **Ann Hematol** 1997 Jun;74(6):259-63

Immunotyping of blasts in human bone marrow. Oertel J, et al. **Ann Hematol** 1996 Mar;72(3):125-9

Stem cells with short-term and long-term repopulating ability in the mouse. Fibbe WE, et al. **Ann Oncol** 1996;7 Suppl 2:15-8 (18 ref.)

Thrombopoietin: understanding and manipulating platelet production. Kaushansky K. **Annu Rev Med** 1997;48:1-11 (82 ref.)

A long-term culture system for the expansion of hematopoietic stem cells from embryonic yolk sac with the capacity to seed erythroid and lymphoid development in vitro and to reconstitute the lymphoid compartment in severe combined immunodeficient mice. Ji H, et al. **Artif Organs** 1996 Oct;20(10):1093-109

Expression of G1-phase cell cycle genes during hematopoietic lineage. Della Ragione F, et al. **Biochem Biophys Res Commun** 1997 Feb 3;231(1):73-6

Ca2+-ATPase inhibitors and Ca2+-ionophore induce osteoclast-like cell formation in the cocultures of mouse bone marrow cells and calvarial cells. Takami M, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):111-5

Preparation of a recombinant chimaera of insulin-like growth factor II and interleukin 3 with high proliferative potency for haemopoietic cells. Difalco MR, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):407-13

Heterogeneity of expression of CD68 and other macrophage-associated antigens in human long-term bone marrow culture. Wilkins BS, et al. **Biologicals** 1996 Dec; 24(4):333-7

Strategies for hematopoietic stem cell gene therapy: insights from computer simulation studies. Abkowitz JL, et al. **Blood** 1997 May 1;89(9):3192-8

Clonal proliferation and cytokine requirement of murine progenitors for natural killer cells. Aiba Y, et al. **Blood** 1997 Jun 1;89(11):4005-12

A role for the Wnt gene family in hematopoiesis: expansion of multilineage progenitor cells. Austin TW, et al. **Blood** 1997 May 15;89(10):3624-35

Granulocytic differentiation of normal hematopoietic precursor cells induced by transcription factor PU.1 correlates with negative regulation of the c-myb promoter. Bellon T, et al. **Blood** 1997 Sep 1;90(5):1828-39

Individual CD34+CD38lowCD19-CD10- progenitor cells from human cord blood generate B lymphocytes and granulocytes. Berardi AC, et al. **Blood** 1997 May 15; 89(10):3554-64

Expression of LTC4 synthase during the development of eosinophils in vitro from cord blood progenitors. Boyce JA, et al. **Blood** 1996 Dec 1;88(11):4338-47

Implication of a new molecule IK in CD34+ hematopoietic progenitor cell proliferation and differentiation. Cao LX, et al. **Blood** 1997 May 15;89(10):3615-23

Kinetic evidence of the regeneration of multilineage hematopoiesis from primitive cells in normal human bone marrow transplanted into immunodeficient mice. Cashman JD, et al. **Blood** 1997 Jun 15;89(12):4307-16

CD34+ hematopoietic progenitors from human cord blood differentiate along two independent dendritic cell pathways in response to granulocyte-macrophage colony-stimulating factor plus tumor necrosis factor alpha: II. Functional analysis. Caux C, et al. **Blood** 1997 Aug 15;90(4):1458-70

Sustained, retransplantable, multilineage engraftment of highly purified adult human bone marrow stem cells in vivo. Civin CI, et al. **Blood** 1996 Dec 1;88(11):4102-9

FLT3 ligand preserves the ability of human CD34+ progenitors to sustain long-term hematopoiesis in immune-deficient mice after ex vivo retroviral-mediated transduction. Dao MA, et al. **Blood** 1997 Jan 15; 89(2):446-56

Fc gammaRII (CD32) is linked to apoptotic pathways in murine granulocyte precursors and mature eosinophils. de Andrés B, et al. **Blood** 1997 Aug 1;90(3):1267-74

The development of human megakaryocytes: III. Development of mature megakaryocytes from highly purified committed progenitors in synthetic culture media and inhibition of thrombopoietin-induced polyploidization by interleukin-3. Dolzhanskiy A, et al. **Blood** 1997 Jan 15; 89(2):426-34

Local clonal analysis of the hematopoietic system shows that multiple small short-living clones maintain life-long hematopoiesis in reconstituted mice. Drize NJ, et al. **Blood** 1996 Oct 15;88(8):2927-38

Hematopoietic-specific genes are not induced during in vitro differentiation of scl-null embryonic stem cells. Elefanty AG, et al. **Blood** 1997 Aug 15;90(4):1435-47

Telomerase regulation, cell cycle, and telomere stability in primitive hematopoietic cells. Engelhardt M, et al. **Blood** 1997 Jul 1;90(1):182-93

Differential maintenance of primitive human SCID-repopulating cells, clonogenic progenitors, and long-term culture-initiating cells after incubation on human bone marrow stromal cells. Gan OI, et al. **Blood** 1997 Jul 15;90(2):641-50

Specific domains of fibronectin mediate adhesion and migration of early murine erythroid progenitors. Goltry KL, et al. **Blood** 1997 Jul 1;90(1):138-47

Targeted disruption of guanosine diphosphate-dissociation inhibitor for Rho-related proteins, GDID4: normal hematopoietic differentiation but subtle defect in superoxide production by macrophages derived from in vitro embryonal stem cell differentiation. Guillemot JC, et al. **Blood** 1996 Oct 1;88(7):2722-31

Extended long-term culture reveals a highly quiescent and primitive human hematopoietic progenitor population. Hao QL, et al. **Blood** 1996 Nov 1;88(9):3306-13

Short- and long-term multilineage repopulating hematopoietic stem cells in late fetal and newborn mice: models for human umbilical cord blood. Harrison DE, et al. **Blood** 1997 Jul 1;90(1):174-81

Increased recruitment of hematopoietic progenitor cells underlies the ex vivo expansion potential of FLT3 ligand. Haylock DN, et al. **Blood** 1997 Sep 15;90(6):2260-72

Transduction of hematopoietic cells by foamy virus vectors. Hirata RK, et al. **Blood** 1996 Nov 1;88(9):3654-61

Engraftment and development of human CD34(+)-enriched cells from umbilical cord blood in NOD/LtSz-scid/scid mice. Hogan CJ, et al. **Blood** 1997 Jul 1;90(1):85-96

Enhanced detection, maintenance, and differentiation of primitive human hematopoietic cells in cultures containing murine fibroblasts engineered to produce human steel factor, interleukin-3, and granulocyte colony-stimulating factor. Hogge DE, et al. **Blood** 1996 Nov 15;88(10):3765-73

Cytokine-facilitated transduction leads to low-level engraftment in nonablated hosts. Kittler EL, et al. **Blood** 1997 Jul 15;90(2):865-72

Population size and radiosensitivity of murine hematopoietic endogenous long-term repopulating cells. McCarthy KF. **Blood** 1997 Feb 1;89(3):834-41

Expression of activated mutants of the human interleukin-3/interleukin-5/granulocyte-macrophage colony-stimulating factor receptor common beta subunit in primary hematopoietic cells induces factor-independent proliferation and differentiation. McCormack MP, et al. **Blood** 1997 Aug 15;90(4):1471-81

Involvement of p21cip-1 and p27kip-1 in the molecular mechanisms of steel factor-induced proliferative synergy in vitro and of p21cip-1 in the maintenance of stem/progenitor cells in vivo. Mantel C, et al. **Blood** 1996 Nov 15;88(10):3710-9

Role of bcl-2 in the development of lymphoid cells from the hematopoietic stem cell. Matsuzaki Y, et al. **Blood** 1997 Feb 1;89(3):853-62

Leptin stimulates fetal and adult erythroid and myeloid development. Mikhail AA, et al. **Blood** 1997 Mar 1; 89(5):1507-12

Transendothelial migration of CD34+ and mature hematopoietic cells: an in vitro study using a human bone marrow endothelial cell line. Möhle R, et al. **Blood** 1997 Jan 1;89(1):72-80

In vitro maintenance of highly purified, transplantable hematopoietic stem cells. Moore KA, et al. **Blood** 1997 Jun 15;89(12):4337-47

Interleukin-10 inhibits spontaneous colony-forming unit-granulocyte-macrophage growth from human peripheral blood mononuclear cells by suppression of endogenous granulocyte-macrophage colony-stimulating

factor release. Oehler L, et al. **Blood** 1997 Feb 15; 89(4):1147–53

Granulocytic and monocytic differentiation of CD34hi cells is associated with distinct changes in the expression of the PU.1–regulated molecules, CD64 and macrophage colony–stimulating factor receptor. Olweus J, et al. **Blood** 1996 Nov 15;88(10):3741–54

Evidence of both ontogeny and transplant dose–regulated expansion of hematopoietic stem cells in vivo. Pawliuk R, et al. **Blood** 1996 Oct 15;88(8):2852–8

Extensive amplification and self–renewal of human primitive hematopoietic stem cells from cord blood. Piacibello W, et al. **Blood** 1997 Apr 15;89(8):2644–53

Primitive long–term culture initiating cells (LTC–ICs) in granulocyte colony–stimulating factor mobilized peripheral blood progenitor cells have similar potential for ex vivo expansion as primitive LTC–ICs in steady state bone marrow. Prosper F, et al. **Blood** 1997 Jun 1;89(11):3991–7

Functional and phenotypic characterization of cord blood and bone marrow subsets expressing FLT3 (CD135) receptor tyrosine kinase. Rappold I, et al. **Blood** 1997 Jul 1;90(1):111–25

Cell cycle analysis and synchronization of pluripotent hematopoietic progenitor stem cells. Reddy GP, et al. **Blood** 1997 Sep 15;90(6):2293–9

The expression of Bcl–x is downregulated during differentiation of human hematopoietic progenitor cells along the granulocyte but not the monocyte/macrophage lineage. Sanz C, et al. **Blood** 1997 May 1;89(9):3199–204

Influence of interleukin–3 and other growth factors on alpha4beta1 integrin–mediated adhesion and migration of human hematopoietic progenitor cells. Schofield KP, et al. **Blood** 1997 Sep 1;90(5):1858–66

Quantitative analysis of cobblestone area–forming cells in bone marrow of patients with aplastic anemia by limiting dilution assay. Schrezenmeier H, et al. **Blood** 1996 Dec 15;88(12):4474–80

Inhibition of immature erythroid progenitor cell proliferation by macrophage inflammatory protein–1alpha by interacting mainly with a C–C chemokine receptor, CCR1. Su S, et al. **Blood** 1997 Jul 15;90(2):605–11

Cycle initiation and colony formation in culture by murine marrow cells with long–term reconstituting potential in vivo. Trevisan M, et al. **Blood** 1996 Dec 1;88(11):4149–58

Transcription factor GATA–2 is required for proliferation/survival of early hematopoietic cells and mast cell formation, but not for erythroid and myeloid terminal differentiation. Tsai FY, et al. **Blood** 1997 May 15; 89(10):3636–43

The unexpected G0/G1 cell cycle status of mobilized hematopoietic stem cells from peripheral blood. Uchida N, et al. **Blood** 1997 Jan 15;89(2):465–72

Anandamide, a natural ligand for the peripheral cannabinoid receptor is a novel synergistic growth factor for hematopoietic cells. Valk P, et al. **Blood** 1997 Aug 15; 90(4):1448–57

Ex vivo expansion of CD34+ peripheral blood progenitor cells: implications for the expansion of contaminating epithelial tumor cells. Vogel W, et al. **Blood** 1996 Oct 1; 88(7):2707–13

Primitive human hematopoietic cells are enriched in cord blood compared with adult bone marrow or mobilized peripheral blood as measured by the quantitative in vivo SCID–repopulating cell assay. Wang JC, et al. **Blood** 1997 Jun 1;89(11):3919–24

Fate of contaminating t(14; 18)+ lymphoma cells during ex vivo expansion of CD34–selected hematopoietic progenitor cells. Widmer L, et al. **Blood** 1996 Oct 15;88(8):3166–75

In vitro expansion of hematopoietic progenitors and maintenance of stem cells: comparison between FLT3/FLK–2 ligand and KIT ligand. Yonemura Y, et al. **Blood** 1997 Mar 15;89(6):1915–21

Bone marrow and thymus expression of interferon–gamma results in severe B–cell lineage reduction, T–cell lineage alterations, and hematopoietic progenitor deficiencies. Young HA, et al. **Blood** 1997 Jan 15;89(2):583–95

Umbilical cord blood collection and separation for haematopoietic progenitor cell banking. Ademokun JA, et al. **Bone Marrow Transplant** 1997 May;19(10):1023–8

Ex vivo manipulations of CD34+ peripheral blood progenitor cells. Brugger W, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S5–7 (25 ref.)

Efficacy and kinetics of bone marrow processing and enrichment of haematopoietic progenitor cells (HPC) by a large–volume apheresis procedure. Cassens U, et al. **Bone Marrow Transplant** 1997 Apr;19(8):835–40

Detection of stromal cells in peripheral blood progenitor cell collections from breast cancer patients. Fernández M, et al. **Bone Marrow Transplant** 1997 Aug;20(4):265–71

External quality assurance for CD34 cell enumeration—results of a preliminary national trial. Royal Microscopical Society Clinical Flow Cytometry Group QA Schemes. Lowdell MW, et al. **Bone Marrow Transplant** 1996 May;17(5):849–53

Quality assurance of CD34+ cell estimation in leucapheresis products. Lumley MA, et al. **Bone Marrow Transplant** 1996 Oct;18(4):791–6

The efficiency of tumor cell purging using immunomagnetic CD34+ cell separation systems. Roots–Weiss A, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1239–46

Umbilical cord blood processing: volume reduction and recovery of CD34+ cells. Sousa T, et al. **Bone Marrow Transplant** 1997 Feb;19(4):311–3

Characterization, quantitation and mobilization of early hematopoietic progenitors: implications for transplantation. Sutherland HJ, et al. **Bone Marrow Transplant** 1996 Sep; 18 Suppl 1:S1–4 (27 ref.)

In vitro expansion and characterization of dendritic cells derived from human bone marrow CD34+ cells. Ye Z, et al. **Bone Marrow Transplant** 1996 Nov;18(5):997–1008

Separation of peripheral blood derived stem cells in children. Zingsem J, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S15–6

Stromal cells negatively regulate primitive haemopoietic progenitor cell activation via a phosphatidylinositol–anchored cell adhesion/signalling mechanism. Gordon MY, et al. **Br J Haematol** 1997 Mar; 96(3):647–53

Murine marrow stromal response to myelotoxic agents in vitro. Hauser SP, et al. **Br J Haematol** 1996 Dec; 95(4):596–604

Variations in culture pH affect the cloning efficiency and differentiation of progenitor cells in ex vivo haemopoiesis. McAdams TA, et al. **Br J Haematol** 1997 Jun;97(4):889–95

Thrombopoietin–independent effect of interferon–gamma on the proliferation of human megakaryocyte progenitors. Muraoka K, et al. **Br J Haematol** 1997 Aug;98(2):265–73

G–CSF–mobilized CD34 peripheral blood stem cells are significantly less apoptotic than unstimulated peripheral blood CD34 cells: role of G–CSF as survival factor. Philpott NJ, et al. **Br J Haematol** 1997 Apr;97(1):146–52

Umbilical vein endothelial cells are an important source of c–kit and stem cell factor which regulate the proliferation of haemopoietic progenitor cells. Yamaguchi H, et al. **Br J Haematol** 1996 Sep;94(4):606–11

Increased hematopoietic progenitor cell maintenance in long–term bone marrow cultures containing minimal numbers of contaminating breast cancer cells. Mann SL, et al. **Breast Cancer Res Treat** 1997 Jun;44(2):115–21

Stimulation of osteoclast–like cell formation by Pasteurella multocida toxin from hemopoietic progenitor cells in mouse bone marrow cultures. Jutras I, et al. **Can J Vet Res** 1996 Jan;60(1):34–9

Autologous and allogeneic blood stem cell transplantation: potential advantage of blood–over marrow–derived stem cell grafts. Körbling M. **Cancer Invest** 1997;15(2):127–37 (77 ref.)

The response of IL–3 dependent B6SUtA bone marrow cells to both erythropoietin and chemical inducers of differentiation. Ishiguro K, et al. **Cancer Lett** 1996 Dec 20;110(1–2):233–41

Ex vivo expansion of hematopoietic stem and progenitor cells for transplantation. LaLuppa JA, et al. **Cancer Treat Res** 1997;77:159–86 (125 ref.)

Intestinal epithelial cell line induction of T cell differentiation from bone marrow precursors. Maric D, et al. **Cell Immunol** 1996 Sep 15;172(2):172–9

Culture expanded canine mesenchymal stem cells possess osteochondrogenic potential in vivo and in vitro. Kadiyala S, et al. **Cell Transplant** 1997 Mar–Apr;6(2):125–34

How do stem cells decide what to do? Cross MA, et al. **Ciba Found Symp** 1997;204:3–14; discussion 14–8 (34 ref.)

Control of the sizes and contents of precursor B cell repertoires in bone marrow. Melchers F. **Ciba Found Symp** 1997;204:172–82; discussion 182–6 (24 ref.)

High–efficiency recovery of immature haematopoietic progenitor cells with extensive proliferative capacity from human cord blood cryopreserved for 10 years. Broxmeyer HE, et al. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:45–53

Gene regulatory mechanisms operative on hematopoietic cells: proliferation, differentiation, and neoplasia. Calabretta B, et al. **Crit Rev Eukaryot Gene Expr** 1997;7(1–2):117–24 (36 ref.)

Stem cell manipulation: why and how performing peripheral blood progenitor cell purging. Rizzoli V, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):101–15 (156 ref.)

Hematopoiesis: wandering progenitor cells. Lasky LA. **Curr Biol** 1996 Oct 1;6(10):1238–40 (11 ref.)

Development of the hematopoietic system. Orkin SH. **Curr Opin Genet Dev** 1996 Oct;6(5):597–602 (44 ref.)

Lymphocyte development [editorial] Storb U, et al. **Curr Opin Immunol** 1996 Apr;8(2):155–9 (28 ref.)

Regulation of thymocyte development from immature progenitors. Zúñiga–Pflücker JC, et al. **Curr Opin Immunol** 1996 Apr;8(2):215–24 (96 ref.)

Acute avian leukemia viruses as tools to study hematopoietic cell differentiation. McNagny KM, et al. **Curr Top Microbiol Immunol** 1996;212:143–62 (114 ref.)

Quantification of CD34+ cells mobilized into the peripheral blood predicts the yield of the leukapheresis product and can replace progenitor assays. D'Hondt L, et al. **Cytokines Cell Mol Ther** 1997 Mar;3(1):21–6

Mobilization of peripheral blood progenitor cells for allogeneic transplantation. Teshima A, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):101–14 (106 ref.)

Automatic analysis of growth onset, growth rate and colony size of individual bone marrow progenitors. Boezeman J, et al. **Cytometry** 1997 Aug 1;28(4):305–10

Analysis of variation in results of CD34+ hematopoietic progenitor cell enumeration in a multicenter study. Gratama JW, et al. **Cytometry** 1997 Jun 15;30(3):109–17

Tenascin–C lines the migratory pathways of avian primordial germ cells and hematopoietic progenitor cells. Anstrom KK, et al. **Dev Dyn** 1996 Aug;206(4):437–46

Identification of a lineage of multipotent hematopoietic progenitors. Morrison SJ, et al. **Development** 1997 May; 124(10):1929–39

Immortalization and leukemic transformation of a myelomonocytic precursor by retrovirally transduced HRX–ENL. Lavau C, et al. **EMBO J** 1997 Jul 16; 16(14):4226–37

Lyn tyrosine kinase is essential for erythropoietin–induced differentiation of J2E erythroid cells. Tilbrook PA, et al. **EMBO J** 1997 Apr 1;16(7):1610–9

Early transplantation to a normal microenvironment prevents the development of Steel hematopoietic stem cell defects. Barker JE. **Exp Hematol** 1997 Jun;25(6):542–7

The MS–5 murine stromal cell line and hematopoietic growth factors synergize to support the megakaryocytic differentiation of embryonic stem cells. Berthier R, et al. **Exp Hematol** 1997 Jun;25(6):481–90

"Stem cell candidates" purified by liquid culture in the presence of Steel factor, IL–3, and 5FU are strictly stroma–dependent and have myeloid, lymphoid, and megakaryocytic potential. Bertolini F, et al. **Exp Hematol** 1997 Apr;25(4):350–6

Quiescence, cycling, and turnover in the primitive hematopoietic stem cell compartment. Bradford GB, et al. **Exp Hematol** 1997 May;25(5):445–53

Hematopoietic precursor cell exhaustion is a cause of proliferative defect in primitive hematopoietic stem cells (PHSC) after chemotherapy. Gardner RV, et al. **Exp Hematol** 1997 Jun;25(6):495–501

Relative to adult marrow, fetal liver repopulates nearly five times more effectively long–term than short–term. Harrison DE, et al. **Exp Hematol** 1997 Apr;25(4):293–7

Osteoclast development from hematopoietic stem cells: apparent divergence of the osteoclast lineage prior to macrophage commitment. Hayase Y, et al. **Exp Hematol** 1997 Jan;25(1):19–25

Pluripotent and lineage–committed CD34+ subsets in leukapheresis products mobilized by G–CSF, GM–CSF vs. a combination of both. Ho AD, et al. **Exp Hematol** 1996 Nov;24(13):1460–8

Monoclonal antibody crosslinking of the alpha 4 or beta 1 integrin inhibits committed clonogenic hematopoietic progenitor proliferation. Hurley RW, et al. **Exp Hematol** 1997 Apr;25(4):321–8

In vitro expansion of murine hematopoietic progenitor cells by leukemia inhibitory factor, stem cell factor, and interleukin–1 beta. Imamura M, et al. **Exp Hematol** 1996 Sep;24(11):1280–8

High–resolution cell cycle analysis of defined phenotypic subsets within primitive human hematopoietic cell populations. Jordan CT, et al. **Exp Hematol** 1996 Sep; 24(11):1347–55

Differential ability of flt3–ligand, interleukin–11, and Steel factor to support the generation of B cell progenitors and myeloid cells from primitive murine fetal liver cells. Lemieux ME, et al. **Exp Hematol** 1997 Aug;25(9):951–7

Granulocyte–colony stimulating factor and stem cell factor are the crucial factors in long–term culture of human primitive hematopoietic cells supported by a murine stromal cell line. Nishi N, et al. **Exp Hematol** 1996 Sep; 24(11):1312–21

Alterations in the progenitor cell population follow recovery from myeloablative therapy and bone marrow transplantation. Novitzky N, et al. **Exp Hematol** 1997 Jun; 25(6):471–7

Antibodies to the beta 1–integrin chain, CD44, or ICAM–3 stimulate adhesion of blast colony–forming cells and may inhibit their growth. Oostendorp RA, et al. **Exp Hematol** 1997 Apr;25(4):345–9

High–dose granulocyte–colony stimulating factor (G–CSF) in vitro induces the growth of high proliferative potential colony forming cells (HPP–CFC) in patients undergoing blood stem cell mobilization. Perez–Oteyza J, et al. **Exp Hematol** 1997 Jun;25(6):516–20

Differentiation of human CD34+CD38– cord blood stem cells into B cell progenitors in vitro. Rawlings DJ, et al. **Exp Hematol** 1997 Jan;25(1):66–72

RhG–CSF–mobilized CD34+ peripheral blood progenitors are myeloperoxidase–negative and noncycling irrespective of CD33 or CD13 coexpression. Rumi C, et al. **Exp Hematol** 1997 Mar;25(3):246–51

TGF–beta and MIP–1 alpha exert their main inhibitory activity on very primitive CD34+2CD38– cells but show opposite effects on more mature CD34+CD38+ human hematopoietic progenitors. Van Ranst PC, et al. **Exp Hematol** 1996 Nov;24(13):1509–15

Alternatives to stem cell renewal from a developmental viewpoint. Van Zant G, et al. **Exp Hematol** 1997 Mar; 25(3):187–92

Circulating hematopoietic stem cell populations in human fetuses: implications for fetal gene therapy and alterations with in utero red cell transfusion. Eddleman KA, et al. **Fetal Diagn Ther** 1996 Jul–Aug;11(4):231–40

Cytokine stimulation of human fetal hematopoietic cells. Ek S, et al. **Fetal Diagn Ther** 1996 Sep–Oct;11(5):318–25

Colony formation of human fetal CD34+ hematopoietic cells. Ek S, et al. **Fetal Diagn Ther** 1996 Sep–Oct; 11(5):326–34

Comparative study of hemopoietic precursors from fetal and adult bone marrow: utilization of stem cells derived from miscarriages. Michejda M, et al. **Fetal Diagn Ther** 1996

Nov-Dec;11(6):373-82
Current experimental strategies for investigating human hematopoietic stem cell biology. Ratajczak MZ, et al. **Folia Histochem Cytobiol** 1996;34(2):59-67 (31 ref.)
Role of glutathione metabolism and apoptosis in the regression of liver hemopoiesis. Yamamasu S, et al. **Free Radic Biol Med** 1997;23(1):100-9
Sustained retroviral gene marking and expression in lymphoid and myeloid cells derived from transduced hematopoietic progenitor cells. Plavec I, et al. **Gene Ther** 1996 Aug; 3(8):717-24
Concentration-dependent effects of hematopoietic growth factors during in vitro expansion of mouse stem cells and progenitor cells. Jönsson JI, et al. **Growth Factors** 1997; 14(1):59-66
Exposure to extremely low frequency magnetic fields has no effect on growth rate or clonogenic potential of multipotential haemopoietic progenitor cells. Reipert BM, et al. **Growth Factors** 1996;13(3-4):205-17
Neutron RBEs for cytopenia and repopulation of stroma and hematopoietic stem cells: mathematical models of marrow cell kinetics. Jones TD, et al. **Health Phys** 1997 Apr; 72(4):530-43
Comparison of T cell depletion strategies from bone marrow, umbilical cord and peripheral blood using five separation systems. Feugier P, et al. **Hematol Cell Ther** 1997 Apr; 39(2):67-73
The role of mel-18, a mammalian Polycomb group gene, during IL-7-dependent proliferation of lymphocyte precursors. Akasaka T, et al. **Immunity** 1997 Jul;7(1):135-46
Failure of lymphopoiesis after adoptive transfer of NF-kappaB-deficient fetal liver cells. Horwitz BH, et al. **Immunity** 1997 Jun;6(6):765-72
Pro-thymocyte expansion by c-kit and the common cytokine receptor gamma chain is essential for repertoire formation. Rodewald HR, et al. **Immunity** 1997 Mar;6(3):265-72
PU.1 functions in a cell-autonomous manner to control the differentiation of multipotential lymphoid-myeloid progenitors. Scott EW, et al. **Immunity** 1997 Apr; 6(4):437-47
Where do hematopoietic stem cells come from? Dieterlen-Lièvre F, et al. **Int Arch Allergy Immunol** 1997 Jan;112(1):3-8 (53 ref.)
Preferential inhibitory effect of soluble factor(s) in human bone marrow stromal cells on proliferation of K562 leukemia cells versus normal myeloid progenitor cells. Aoyagi A, et al. **Int J Hematol** 1996 Apr;63(3):205-13
Study of the collection and separation of umbilical cord blood for use in hematopoietic progenitor cell transplantation. Isoyama K, et al. **Int J Hematol** 1996 Feb;63(2):95-102
Long-term survival and differentiation of human peripheral blood CD34+ cells in SCID mice. Sakamaki S, et al. **Int J Hematol** 1997 Jun;65(4):375-84
Automated imaging and quantitation of tumor cells and CFU-GM colonies in microcapillary cultures: toward therapeutic index-based drug screening. Murphy MJ Jr, et al. **Invest New Drugs** 1996;13(4):303-14
Transcriptional activation of the cdc2 gene is associated with Fas-induced apoptosis of human hematopoietic cells. Furukawa Y, et al. **J Biol Chem** 1996 Nov 8; 271(45):28469-77
The kinase domain of Jak2 mediates induction of bcl-2 and delays cell death in hematopoietic cells. Sakai I, et al. **J Biol Chem** 1997 May 9;272(19):12350-8
Effects of recombinant human bone morphogenetic protein-2 on human bone marrow cells cultured with various biomaterials. Kim KJ, et al. **J Biomed Mater Res** 1997 Jun 5;35(3):279-85
Culture materials affect ex vivo expansion of hematopoietic progenitor cells. LaIuppa JA, et al. **J Biomed Mater Res** 1997 Sep 5;36(3):347-59
Growth kinetics, self-renewal, and the osteogenic potential of purified human mesenchymal stem cells during extensive subcultivation and following cryopreservation. Bruder SP, et al. **J Cell Biochem** 1997 Feb;64(2):278-94
Role of acid/base homeostasis in the suppression of apoptosis in haemopoietic cells by v-Abl protein tyrosine kinase. Chen Q, et al. **J Cell Sci** 1997 Feb;110 (Pt 3):379-87
Determining factors for the outcome of peripheral blood progenitor cells harvests. Keung YK, et al. **J Clin Apheresis** 1996;11(1):23-6
Selective transgene expression for detection and elimination of contaminating carcinoma cells in hematopoietic stem cell sources [see comments] Chen L, et al. **J Clin Invest** 1996 Dec 1;98(11):2539-48. Comment in: J Clin Invest 1996 Dec 1;98(11):2435.
Quantitative analysis reveals expansion of human hematopoietic repopulating cells after short-term ex vivo culture. Bhatia M, et al. **J Exp Med** 1997 Aug 18; 186(4):619-24
Colony growth of human hematopoietic progenitor cells in the absence of serum is supported by a proteinase inhibitor identified as antileukoproteinase. Goselink HM, et al. **J Exp Med** 1996 Oct 1;184(4):1305-12
Identification of novel lymphoid tissues in murine intestinal mucosa where clusters of c-kit+ IL-7R+ Thy1+ lympho-hemopoietic progenitors develop [see comments] Kanamori Y, et al. **J Exp Med** 1996 Oct 1;184(4):1449-59 . Comment in: J Exp Med 1996 Oct 1;184(4):1203-6.
Extramedullary expansion of hematopoietic progenitor cells in interleukin (IL)-6-sIL-6R double transgenic mice. Peters M, et al. **J Exp Med** 1997 Feb 17;185(4):755-66
Analysis of interleukin 6 receptor and gp130 expressions and proliferative capability of human CD34+ cells. Tajima S, et al. **J Exp Med** 1996 Oct 1;184(4):1357-64
Preferential proliferation of murine colony-forming units in culture in a chemically defined condition with a macrophage colony-stimulating factor-negative stromal cell clone. Takakura N, et al. **J Exp Med** 1996 Dec 1; 184(6):2301-9
Expansion of blood CD34+ cells: committed precursor expansion does not affect immature hematopoietic progenitors. David S, et al. **J Hematother** 1997 Apr; 6(2):151-8
Ex vivo expansion of CD34 + CD38- cord blood cells. De Bruyn C, et al. **J Hematother** 1997 Apr;6(2):93-102
Optimization of CD34+ cell selection using immunomagnetic beads: implications for use in cryopreserved peripheral blood stem cell collections. Farley TJ, et al. **J Hematother** 1997 Feb;6(1):53-60
Lineage commitment of HLA-DR/CD38-defined progenitor cell subpopulations in bone marrow and mobilized peripheral blood assessed by four-color immunofluorescence. Harvey K, et al. **J Hematother** 1997 Jun;6(3):243-52
Large volume leukapheresis maximizes the progenitor cell yield for allogeneic peripheral blood progenitor donation. Kobbe G, et al. **J Hematother** 1997 Apr;6(2):125-31
flt-3 ligand is more potent than c-kit ligand for the synergistic stimulation of ex vivo hematopoietic cell expansion. Koller MR, et al. **J Hematother** 1996 Oct; 5(5):449-59
Efficient collection of peripheral blood stem cells using the Fresenius AS104 in chronic myelocytic leukemia patients with very high numbers of platelets. Komatsu F, et al. **J Hematother** 1997 Apr;6(2):133-6
Large-scale isolation of CD34+ cells using the Amgen cell selection device results in high levels of purity and recovery. McNiece I, et al. **J Hematother** 1997 Feb; 6(1):5-11
Ex vivo expansion of frozen/thawed CD34+ cells isolated from frozen human apheresis products. Martinson JA, et al. **J Hematother** 1997 Feb;6(1):69-75
Rapid debulking and CD34 enrichment of filgrastim-mobilized peripheral blood stem cells by semiautomated density gradient centrifugation in a closed system. Przepiorka D, et al. **J Hematother** 1996 Oct; 5(5):497-502
Daily measurements of blood CD34+ cells after stem cell mobilization predict stem cell yield and posttransplant hematopoietic recovery. Remes K, et al. **J Hematother** 1997 Feb;6(1):13-9
Comparison of whole serum-deprived media for ex vivo expansion of hematopoietic progenitor cells from cord blood and mobilized peripheral blood mononuclear cells. Sandstrom CE, et al. **J Hematother** 1996 Oct;5(5):461-73
The effects of Flk-2/flt3 ligand as compared with c-kit ligand on short-term and long-term proliferation of CD34+ hematopoietic progenitors elicited from human fetal liver, umbilical cord blood, bone marrow, and mobilized peripheral blood. Shapiro F, et al. **J Hematother** 1996 Dec;5(6):655-62
Prethymic CD34+ progenitors capable of developing into T cells are not committed to the T cell lineage. Blom B, et al. **J Immunol** 1997 Apr 15;158(8):3571-7
Overexpression of c-Fos induces apoptosis of CD43+ pro-B cells. Hu L, et al. **J Immunol** 1996 Nov 1;157(9):3804-11
Hemopoietic progenitors in the murine fetal liver capable of rapidly generating T cells. Kawamoto H, et al. **J Immunol** 1997 Apr 1;158(7):3118-24
A functional B cell receptor transgene allows efficient IL-7-independent maturation of B cell precursors. Melamed D, et al. **J Immunol** 1997 Aug 1;159(3):1233-9
IL-4 and insulin-like growth factor-I inhibit the decline in Bcl-2 and promote the survival of IL-3-deprived myeloid progenitors. Minshall C, et al. **J Immunol** 1997 Aug 1; 159(3):1225-32
IL-10 modulates formation of osteoclasts in murine hemopoietic cultures. Owens JM, et al. **J Immunol** 1996 Jul 15;157(2):936-40
Thrombopoietin directly and potently stimulates multilineage growth and progenitor cell expansion from primitive (CD34+ CD38-) human bone marrow progenitor cells: distinct and key interactions with the ligands for c-kit and flt3, and inhibitory effects of TGF-beta and TNF-alpha. Ramsfjell V, et al. **J Immunol** 1997 Jun 1;158(11):5169-77
Suppressive effects of recombinant human monokine induced by IFN-gamma (rHuMig) chemokine on the number of committed and primitive hemopoietic progenitors in liquid cultures of CD34+ human bone marrow cells. Schwartz GN, et al. **J Immunol** 1997 Jul 15;159(2):895-904
Thymus-independent generation of NK1+ T cells in vitro from fetal liver precursors. Shimamura M, et al. **J Immunol** 1997 Apr 15;158(8):3682-9
The flt3 ligand promotes the survival of primitive hemopoietic progenitor cells with myeloid as well as B lymphoid potential. Suppression of apoptosis and counteraction by TNF-alpha and TGF-beta. Veiby OP, et al. **J Immunol** 1996 Oct 1;157(7):2953-60
STAT5 involvement in the differentiation response of primary chicken myeloid progenitor cells to chicken myelomonocytic growth factor. Woldman I, et al. **J Immunol** 1997 Jul 15;159(2):877-86
Improved methods for the generation of dendritic cells from nonproliferating progenitors in human blood. Bender A, et al. **J Immunol Methods** 1996 Sep 27;196(2):121-35
Dengue virus inhibits human hematopoietic progenitor growth in vitro. Murgue B, et al. **J Infect Dis** 1997 Jun; 175(6):1497-501
Isolation, characterization, and biologic features of bone marrow endothelial cells. Almeida-Porada G, et al. **J Lab Clin Med** 1996 Oct;128(4):399-407
Requirement for CD44 in proliferation and homing of hematopoietic precursor cells. Khaldoyanidi S, et al. **J Leukoc Biol** 1996 Nov;60(5):579-92
Phenotypic and functional differences between human dendritic cells derived in vitro from hematopoietic progenitors and from monocytes/macrophages. Triozzi PL, et al. **J Leukoc Biol** 1997 May;61(5):600-8
In vitro T lymphopoiesis: a model system for stem cell gene therapy for AIDS. Rosenzweig M, et al. **J Med Primatol** 1996 Jun;25(3):192-200
Suppressive effects of human herpesvirus 6 on in vitro colony formation of hematopoietic progenitor cells. Isomura H, et al. **J Med Virol** 1997 Aug;52(4):406-12
Protective effect of recombinant human leukemia inhibitory factor against thrombocytopenia in carboplatin-treated mice. Akiyama Y, et al. **Jpn J Cancer Res** 1997 Jun; 88(6):584-9
Macrophage inflammatory protein-1 alpha (LD78) expressed in human bone marrow: its role in regulation of hematopoiesis and osteoclast recruitment. Kukita T, et al. **Lab Invest** 1997 Mar;76(3):399-406
Elevation of lymphocyte and hematopoietic stem cell numbers in mice transgenic for human granulocyte CSF. Yamada T, et al. **Lab Invest** 1996 Feb;74(2):384-94
Concepts of hemopoietic cell amplification. Synergy, redundancy and pleiotropy of cytokines affecting the regulation of erythropoiesis. de Haan G, et al. **Leuk Lymphoma** 1996 Aug;22(5-6):385-94 (64 ref.)
Peripheral blood progenitor cell mobilization with Dexa-Beam/G-CSF, ether lipid purging, and autologous transplantation after high-dose CBV treatment: a safe and effective regimen in patients with poor risk malignant lymphomas. Knauf WU, et al. **Leuk Lymphoma** 1996 Oct; 23(3-4):305-11
VLA-4-mediated interactions between normal human hematopoietic progenitors and stromal cells. Oostendorp RA, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):423-35 (94 ref.)
Cellular interactions among marrow stromal and normal/neoplastic pre-B- and B-lymphoblastic cells. Patrick CW Jr, et al. **Leuk Lymphoma** 1996 Jul; 22(3-4):205-19 (117 ref.)
Perturbation in the ability of bone marrow stroma from patients with acute myeloid leukemia but not chronic myeloid leukemia to support normal early hematopoietic progenitor cells. Sparrow RL, et al. **Leuk Res** 1997 Jan; 21(1):29-36
Purification of repopulating hemopoietic cells based on binding of biotinylated Kit ligand. de Jong MO, et al. **Leukemia** 1996 Nov;10(11):1813-22
Role of the stem cell factor (SCF) receptor and the alternative forms of its ligand (SCF) in the induction of long-term growth by stroma cells. Friel J, et al. **Leukemia** 1997 Apr;11 Suppl 3:493-5
In vitro analysis of potency restriction during epiblast differentiation. Kanatsu M, et al. **Leukemia** 1997 Apr;11 Suppl 3:457-9
Thrombopoietin: basic biology and clinical promise. Kaushansky K. **Leukemia** 1997 Apr;11 Suppl 3:426-7
The combined effects of all-trans retinoic acid and TGF-beta on the initial proliferation of normal human bone marrow progenitor cells. Lardon F, et al. **Leukemia** 1996 Dec; 10(12):1937-43
Stage-specific cell-cycling of hematopoietic progenitor cells. Mahmud N, et al. **Leukemia** 1997 Apr;11 Suppl 3:461-3
Regulation of megakaryocytopoiesis by thrombopoietin and stromal cells. Nagata Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:435-8
Development of erythroid cells from mouse embryonic stem cells in culture: potential use for erythroid transcription factor study. Nakano T, et al. **Leukemia** 1997 Apr;11 Suppl 3:496-500
In vitro long-term culture of human primitive hematopoietic cells supported by murine stromal cell line MS-5. Nishi N, et al. **Leukemia** 1997 Apr;11 Suppl 3:468-73
Does transmembrane communication through gap junctions enable stem cells to overcome stromal inhibition? Rosendaal M, et al. **Leukemia** 1997 Aug;11(8):1281-9
MafB represses erythroid genes and differentiation through direct interaction with c-Ets-1. Sieweke MH, et al. **Leukemia** 1997 Apr;11 Suppl 3:486-8
Receptor tyrosine kinases involved in hematopoietic progenitor cells. Suda T, et al. **Leukemia** 1997 Apr;11 Suppl 3:451-3
Self-renewal of hematopoietic progenitor cells under defined condition. Takakura N, et al. **Leukemia** 1997 Apr;11 Suppl 3:460
An acute myeloid leukemia gene, AML1, regulates transcriptional activation and hemopoietic myeloid cell differentiation antagonistically by two alternative spliced forms. Tanaka T, et al. **Leukemia** 1997 Apr;11 Suppl 3:299-302
Hypersensitivity of bcr-abl-positive progenitors to hyperthermia in patients with chronic myeloid leukemia.

Thijsen SF, et al. **Leukemia** 1997 Oct;11(10):1762–8

Effects of homoharringtonine alone and in combination with alpha interferon and cytosine arabinoside on 'in vitro' growth and induction of apoptosis in chronic myeloid leukemia and normal hematopoietic progenitors. Visani G, et al. **Leukemia** 1997 May;11(5):624–8

A new type–II membrane protein in erythropoietic organs enhances erythropoiesis. Yanai N, et al. **Leukemia** 1997 Apr;11 Suppl 3:484–5

Potential for clinical use of viable pluripotent progenitor cells in blood bank stored human umbilical cord blood. Lu S, et al. **Life Sci** 1997;61(12):1113–23

A local renin–angiotensin system in the bone marrow. Haznedaroğlu IC, et al. **Med Hypotheses** 1996 Jun; 46(6):507–10

Feasibility of peripheral blood stem cell (PBSC) and peripheral blood mononuclear cell (PBMNC) separation in children with a body weight below 20 KG. Urban C, et al. **Med Pediatr Oncol** 1997 Aug;29(2):115–20

Collagen gel culture of the human hematopoietic progenitors CFU–GM, CFU–E, and BFU–E. Allegraud A, et al. **Methods Mol Biol** 1997;75:221–30 (7 ref.)

High proliferative potential colony–forming cells. Bertoncello I, et al. **Methods Mol Biol** 1997;75:265–72 (17 ref.)

In vitro clonal culture of human hematopoietic progenitor cells. Clark BR, et al. **Methods Mol Biol** 1997;75:257–63 (6 ref.)

Culturing primitive hemopoietic cells. Long–term mouse marrow cultures and the establishment of factor–dependent (FDCP–Mix) hemopoietic cell lines. Spooncer E, et al. **Methods Mol Biol** 1997;75:209–19 (8 ref.)

A deletion mutation in the SH2–N domain of Shp–2 severely suppresses hematopoietic cell development. Qu CK, et al. **Mol Cell Biol** 1997 Sep;17(9):5499–507

I. A bioactive designer cytokine for human hematopoietic progenitor cell expansion. Fischer M, et al. **Nat Biotechnol** 1997 Feb;15(2):142–5

A truncated RAR alpha co–operates with the v–erbB oncogene to transform early haematopoietic progenitors in vitro and in vivo. Altabef M, et al. **Oncogene** 1997 Mar 27;14(12):1471–9

Characterization of factor–independent variants derived from TF–1 hematopoietic progenitor cells: the role of the Raf/MAP kinase pathway in the anti–apoptotic effect of GM–CSF. Chao JR, et al. **Oncogene** 1997 Feb 13; 14(6):721–8

In bone marrow derived Baf–3 cells, inhibition of apoptosis by IL–3 is mediated by two independent pathways. Leverrier Y, et al. **Oncogene** 1997 Jan 30;14(4):425–30

Transcriptional activation potential of normal and tumor–associated myb isoforms does not correlate with their ability to block GCSF–induced terminal differentiation of murine myeloid precursor cells. Patel G, et al. **Oncogene** 1996 Sep 19;13(6):1197–208

Chimeric oncoprotein E2a–Pbx1 induces apoptosis of hematopoietic cells by a p53–independent mechanism that is suppressed by Bcl–2. Smith KS, et al. **Oncogene** 1997 Jun 19;14(24):2917–26

Defective in vitro granulopoiesis in patients with anorexia nervosa. Vaisman N, et al. **Pediatr Res** 1996 Jul; 40(1):108–11

Purification of primitive human hematopoietic cells capable of repopulating immune–deficient mice. Bhatia M, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5320–5

Temporal mapping of gene expression levels during the differentiation of individual primary hematopoietic cells. Cheng T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13158–63

Expansion in vitro of transplantable human cord blood stem cells demonstrated using a quantitative assay of their lympho–myeloid repopulating activity in nonobese diabetic–scid/scid mice. Conneally E, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9836–41

Hematopoietic cells differentiate into both microglia and macroglia in the brains of adult mice. Eglitis MA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4080–5

Leptin can induce proliferation, differentiation, and functional activation of hemopoietic cells. Gainsford T, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14564–8

Thrombopoietic potential and serial repopulating ability of murine hematopoietic stem cells constitutively expressing interleukin 11. Hawley RG, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10297–302

In vitro and in vivo differentiation into B cells, T cells, and myeloid cells of primitive yolk sac hematopoietic precursor cells expanded > 100–fold by coculture with a clonal yolk sac endothelial cell line. Lu LS, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14782–7

Human blood–mobilized hematopoietic precursors differentiate into osteoclasts in the absence of stromal cells. Matayoshi A, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10785–90

Inhibition of granulocytic differentiation by mNotch1. Milner LA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13014–9

Cyclophosphamide/granulocyte colony–stimulating factor induces hematopoietic stem cells to proliferate prior to mobilization. Morrison SJ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1908–13

Interleukin 7 independent development of human B cells. Prieyl JA, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10348–53

In vivo repopulating hematopoietic stem cells are present in the murine yolk sac at day 9.0 postcoitus. Yoder MC, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6776–80

NIH nixes appeal to bypass patent law [news] Marshall E. **Science** 1997 Aug 8;277(5327):759–60

Hematopoietic stem cells in the mouse embryonic yolk sac. Auerbach R, et al. **Stem Cells** 1996 May;14(3):269–80 (65 ref.)

Growth of human hematopoietic cells in immunodeficient mice conditioned with cyclophosphamide and busulfan. Basch RS, et al. **Stem Cells** 1997;15(4):314–23

Effects of recombinant human thrombopoietin alone and in combination with erythropoietin and early–acting cytokines on human mobilized purified CD34+ progenitor cells cultured in serum–depleted medium. Birkmann J, et al. **Stem Cells** 1997;15(1):18–32

Serum–free culture conditions for cells capable of producing long–term survival in lethally irradiated mice. Brown RL, et al. **Stem Cells** 1997;15(3):237–45

Differential effect of erythropoietin and GM–CSF on megakaryocytopoiesis from primitive bone marrow cells in serum–free conditions. Cardier JE, et al. **Stem Cells** 1997; 15(4):286–90

In vitro growth of mobilized peripheral blood progenitor cells is significantly enhanced by stem cell factor. Cesana C, et al. **Stem Cells** 1997;15(3):207–13

Optimization of peripheral blood stem cell mobilization. Demirer T, et al. **Stem Cells** 1996 Jan;14(1):106–16 (77 ref.)

Extensive amplification of single cells from CD34+ subpopulations in umbilical cord blood and identification of long–term culture–initiating cells present in two subsets. de Wynter EA, et al. **Stem Cells** 1996 Sep;14(5):566–76

In vitro differentiation of murine Sca–1+Lin– cells into myeloid, B cell and T cell lineages. Ito M, et al. **Stem Cells** 1996 Jul;14(4):412–8

Importance of parenchymal:stromal cell ratio for the ex vivo reconstitution of human hematopoiesis. Koller MR, et al. **Stem Cells** 1997;15(4):305–13

Optimization of the cycling of clonogenic and primitive cord blood progenitors by various growth factors. Movassagh M, et al. **Stem Cells** 1997;15(3):214–22

Raf–1 protein is required for growth factor–induced proliferation of primitive hematopoietic progenitors stimulated with synergistic combinations of cytokines. Muszynski KW, et al. **Stem Cells** 1997;15(1):63–72

T cell differentiation/maturation of CD34+ stem cells from HIV–seropositive hemophiliacs in cultured thymic epithelial fragments. Ruiz M, et al. **Stem Cells** 1996 Jan; 14(1):132–45

Arrest of in vitro T cell differentiation of normal bone marrow–derived CD34+ stem cells with thymic epithelial fragments from children with AIDS. Ruiz ME, et al. **Stem Cells** 1996 Sep;14(5):533–47

Functional and morphological characterization of immunomagnetically selected CD34+ hematopoietic progenitor cells. Servida F, et al. **Stem Cells** 1996 Jul; 14(4):430–8

The kinetics of G–CSF mobilization of CD34+ cells in healthy people. Stroncek DF, et al. **Transfus Med** 1997 Mar;7(1):19–24

The COBE Spectra cell separator is more effective than the Haemonetics MCS–3P cell separator for peripheral blood progenitor cell harvest after mobilization with cyclophosphamide and filgrastim. Morton JA, et al. **Transfusion** 1997 Jun;37(6):631–3

Mobilization kinetics of CD34+/Thy–1dim progenitor cells during recombinant human granulocyte–colony–stimulating factor administration in normal donors. Seong C, et al. **Transfusion** 1997 Apr; 37(4):406–10

Composition of peripheral blood progenitor cell components collected from healthy donors. Stroncek DF, et al. **Transfusion** 1997 Apr;37(4):411–7

Collection of peripheral blood progenitor cells after the administration of cyclophosphamide, etoposide, and granulocyte–colony–stimulating factor: an analysis of 497 patients. Weaver CH, et al. **Transfusion** 1997 Sep; 37(9):896–903

Documentation in bone–marrow–augmented organ recipients of the presence of dendritic cell progenitors of donor origin. Aitouche A, et al. **Transplant Proc** 1997 Jun; 29(4):2175–6

Interaction between human humoral factors and swine bone marrow cells (an experimental report). Bianchi de Di Risio CC, et al. **Transplant Proc** 1997 Jun;29(4):1997–8

Nitric oxide production by dendritic cells is associated with impairment of T cell responses. Bonham CA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1116–7

Monoclonal antibodies to the cell surface of a unique human lymphoid/myeloid cell line detect epitopes absent from peripheral blood mononuclear cells. Cusano G, et al. **Transplant Proc** 1997 Jun;29(4):2046

Soluble factor(s) alone produced by primary porcine microvascular endothelial cells support the proliferation and differentiation of human CD34+ hematopoietic progenitor cells with a high replating potential. Davis TA, et al. **Transplant Proc** 1997 Jun;29(4):2003–4

Ex vivo expansion of primitive murine hematopoietic progenitor cells on porcine endothelial cells. Davis TA, et al. **Transplant Proc** 1997 Jun;29(4):2005

Enrichment of hematopoietic stem cells from human vertebral body marrow. Kenyon NS, et al. **Transplant Proc** 1997 Jun;29(4):1951

Characterization of baboon vertebral body marrow. Kenyon NS, et al. **Transplant Proc** 1997 Jun;29(4):1952

An automated method for flow–cytometric analysis of human vertebral body marrow. Knapp JC, et al. **Transplant Proc** 1997 Jun;29(4):1953

Characterization of pediatric vertebral bone marrow. Kong SS, et al. **Transplant Proc** 1997 Jun;29(4):1955

Immunomagnetic method of CD34(+) cell separation. Markiewicz M, et al. **Transplant Proc** 1996 Dec; 28(6):3526–7

Phenotypic analysis of a human hematopoietic cell line with lymphoid and myeloid features using simultaneous multicolor flow cytometry. Russo DA, et al. **Transplant Proc** 1997 Jun;29(4):1962

Identification of donor hematopoietic progenitor cells after allogeneic liver transplantation. Sakamoto T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1211

Immune markers and hematopoiesis of cadaveric bone marrow for transplantation. Söderdahl G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):714–5

Characterization of hematopoietic stem cells in the adult liver. Taniguchi H, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1212–3

Retroviral gene transfer of a donor class I MHC gene to recipient bone marrow cells induces tolerance to alloantigens in vivo. Wong W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1130

Fractionation of feline bone marrow with the soybean agglutinin lectin yields populations enriched for erythroid and myeloid elements: transplantation of soybean agglutinin–negative cells into lethally irradiated recipients. Gengozian N, et al. **Transplantation** 1997 Aug 15; 64(3):510–8

Analysis for recovery and loss of mononuclear cells and colony–forming units granulocyte–macrophage during ex vivo processing of autologous bone marrow. Schwella N, et al. **Vox Sang** 1996;70(3):132–8

[The effect of angelica polysaccharide on proliferation and differentiation of hematopoietic progenitor cell] Wang Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):363–6 (Eng. Abstr.) **(Chi)**

[Transgenic human thymopoiesis from retrovirally transduced umbilical cord blood hematopoietic stem cells: experimental studies in the SCID–hu mouse] Champseix C, et al. **Transfus Clin Biol** 1997;4(3):267–73 (Eng. Abstr.) **(Fre)**

[Differentiation of hematopoietic stem cell and expression of GPI–anchor protein in paroxysmal nocturnal hemoglobinuria] Kanamaru A, et al. **Nippon Naika Gakkai Zasshi** 1996 Jul 10;85(7):1160–4 (12 ref.) **(Jpn)**

[In vitro expansion of human hematopoietic stem cells] Tsuji K. **Rinsho Ketsueki** 1996 Jul;37(7):579–83 (9 ref.) **(Jpn)**

[Analysis of self–renewal mechanism of hematopoietic stem cells using transgenic mice expressing cytokine receptors] Takagi M, et al. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1297–305 (27 ref.) **(Jpn)**

[Biological properties of the colony–promoting activity in extracts prepared from murine kidney] Bamba T, et al. **Yakugaku Zasshi** 1996 Sep;116(9):719–27 (Eng. Abstr.) **(Jpn)**

[Kinetics of hematopoietic clones in reconstituted mice] Drize NI, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):180–3 **(Rus)**

[Repopulation defect of hematopoietic stem cells after retrovirus transfer of foreign gene] Drize NI, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):75–8 **(Rus)**

[The number of functional hematopoietic clones in mice with bone marrow recovery depends upon the dose of transplanted cells] Drize NI, et al. **Biull Eksp Biol Med** 1997 Jul;124(7):86–9 **(Rus)**

[The role of binding activity of hematopoietic microenvironment cells in the recovery of various hematopoietic stems inhibited by cytostatics] Zhdanov VV, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):490–4 **(Rus)**

[Clonogenic hematopoietic cells (CFU–S) of mouse embryonic liver during short–term in–vivo cultivation] Domaratskaia EI, et al. **Izv Akad Nauk Ser Biol** 1997 May–Jun;(3):261–5 (Eng. Abstr.) **(Rus)**

[The similar capacity for self–maintenance of clonogenic hemopoietic cells (CFU–S–11) from the liver and peripheral blood of sexually mature mice] Starostin VI, et al. **Izv Akad Nauk Ser Biol** 1997 Jan–Feb;(1):100–2 (Eng. Abstr.) **(Rus)**

[Effect of inactivated Ebola virus on colony forming activity of human hematopoietic stem cells] Chepurnov AA, et al. **Vopr Virusol** 1997 Mar–Apr;42(2):91–2 (Eng. Abstr.) **(Rus)**

[Evaluation of bone–marrow cell cryopreservation using long–term cultures] Mellado–Damas N, et al. **Sangre (Barc)** 1997 Feb;42(1):17–20 (Eng. Abstr.) **(Spa)**

[Hemopoietic potential of umbilical cord blood stem cells] Querol S, et al. **Sangre (Barc)** 1997 Apr;42(2):105–11 (59 ref.) **(Spa)**

DRUG EFFECTS

Effects of perinatal zidovudine on hematopoiesis: a comparison of effects on progenitors from human fetuses versus mothers. Shah MM, et al. **AIDS** 1996 Sep;

10(11):1239–47

Effect of HIV type 1 Tat protein on butyric acid–induced differentiation in a hematopoietic progenitor cell line. Mondal D, et al. **AIDS Res Hum Retroviruses** 1996 Nov 1;12(16):1529–36

Thrombopoietin: in vitro predictions, in vivo realities. Kaushansky K. **Am J Hematol** 1996 Nov;53(3):188–91 (31 ref.)

Ultrastructural characterization of preosteoclasts derived from bone marrow progenitors stimulated by osteoclast colony stimulating factor. Lee MY, et al. **Anat Rec** 1996 Oct;246(2):176–84

Flt3 ligand prolongs survival of CD34+ + + human umbilical cord blood myeloid progenitors in serum–depleted culture medium. Takahira H, et al. **Ann Hematol** 1996 Mar;72(3):131–5

Mobilization/transplantation of Ph1–negative blood progenitor cells in chronic myelogenous leukaemia. Carella AM, et al. **Ann Oncol** 1996;7 Suppl 2:19–22 (27 ref.)

Allogeneic transplantation of peripheral blood progenitor cells. Link H, et al. **Ann Oncol** 1996;7 Suppl 2:41–5 (43 ref.)

Mode of cytostatic action of mesoionic oxatriazole nitric oxide donors in proliferating human hematopoietic cells. Vilpo JA, et al. **Anticancer Drug Des** 1997 Mar;12(2):75–89

Mobilisation of blood progenitor cells with ifosfamide and etoposide (VP–16) in combination with recombinant human G–CSF (Filgrastim) in patients with malignant lymphomas or solid tumours. Baars JW, et al. **Anticancer Res** 1996 Sep–Oct;16(5B):3089–95

In vitro potency of inhibition by antiviral drugs of hematopoietic progenitor colony formation correlates with exposure at hemotoxic levels in human immunodeficiency virus–positive humans. Dornsife RE, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):514–9

Protection and rescue from 2',3'–dideoxypyrimidine nucleoside analog toxicity by hemin in human bone marrow progenitor cells. Fowler DA, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):191–5

Selective protection of toxicity of 2',3'–dideoxypyrimidine nucleoside analogs by beta–D–uridine in human granulocyte–macrophage progenitor cells. Faraj A, et al. **Antiviral Res** 1996 Mar;29(2–3):261–7

Interaction of 2–chlorodeoxyadenosine in combination either with interferons or recombinant human tumor necrosis factor alpha on myeloid progenitor cells in vitro. Korycka A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(4):259–64

Intermediate dose cyclophosphamide combined with a growth factor is a safe and effective regimen for mobilisation of peripheral blood progenitor cells. Goss G, et al. **Aust N Z J Med** 1996 Jun;26(3):411–3

Preparation of a recombinant chimaera of insulin–like growth factor II and interleukin 3 with high proliferative potency for haemopoietic cells. Difalco MR, et al. **Biochem J** 1997 Sep 1;326 (Pt 2):407–13

Collection of peripheral blood stem cells following administration of paclitaxel, cyclophosphamide, and filgrastim in patients with breast and ovarian cancer. Weaver CH, et al. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):83–90

The effect of DLE fractions on GM–progenitors of haematopoietic stem cells in vitro. Barnet K, et al. **Biotherapy** 1996;9(1–3):171–4

Interleukin–2 (IL–2) upregulates BAG–1 gene expression through serine–rich region within IL–2 receptor beta c chain. Adachi M, et al. **Blood** 1996 Dec 1;88(11):4118–23

The effects of vitamin D binding protein–macrophage activating factor and colony–stimulating factor–1 on hematopoietic cells in normal and osteopetrotic rats. Benis KA, et al. **Blood** 1996 Oct 15;88(8):2898–905

Cytokine prestimulation as a gene therapy strategy: implications for using the MDR1 gene as a dominant selectable marker. Blau CA, et al. **Blood** 1997 Jan 1; 89(1):146–54

Thrombopoietin, but not erythropoietin promotes viability and inhibits apoptosis of multipotent murine hematopoietic progenitor cells in vitro. Borge OJ, et al. **Blood** 1996 Oct 15;88(8):2859–70

Selection of myeloid progenitors lacking BCR/ABL mRNA in chronic myelogenous leukemia patients after in vitro treatment with the tyrosine kinase inhibitor genistein. Carlo–Stella C, et al. **Blood** 1996 Oct 15;88(8):3091–100

Role of interleukin–2 (IL–2), IL–7, and IL–15 in natural killer cell differentiation from cord blood hematopoietic progenitor cells and from gamma c transduced severe combined immunodeficiency X1 bone marrow cells. Cavazzana–Calvo M, et al. **Blood** 1996 Nov 15; 88(10):3901–9

Granulocyte colony–stimulating factor activation of Stat3 alpha and Stat3 beta in immature normal and leukemic human myeloid cells. Chakraborty A, et al. **Blood** 1996 Oct 1;88(7):2442–9

O6–benzylguanine potentiates the in vivo toxicity and clastogenicity of temozolomide and BCNU in mouse bone marrow. Chinnasamy N, et al. **Blood** 1997 Mar 1; 89(5):1566–73

Thrombopoietin does not induce lineage–restricted commitment of Mpl–R expressing pluripotent progenitors but permits their complete erythroid and megakaryocytic differentiation. Goncalves F, et al. **Blood** 1997 May 15; 89(10):3544–53

Quantitative and cell–cycle differences in progenitor cells mobilized by recombinant human interleukin–7 and recombinant human granulocyte colony–stimulating factor. Grzegorzewski KJ, et al. **Blood** 1996 Dec 1;88(11):4139–48

Platelet factor 4 and other CXC chemokines support the survival of normal hematopoietic cells and reduce the chemosensitivity of cells to cytotoxic agents. Han ZC, et al. **Blood** 1997 Apr 1;89(7):2328–35

In vitro differentiation of CD34+ hematopoietic progenitor cells toward distinct dendritic cell subsets of the birbeck granule and MIIC–positive Langerhans cell and the interdigitating dendritic cell type. Herbst B, et al. **Blood** 1996 Oct 1;88(7):2541–8

Isolation and identification of hematopoietic stem cell–stimulating substances from Kampo (Japanese herbal) medicine, Juzen–taiho–to. Hisha H, et al. **Blood** 1997 Aug 1;90(3):1022–30

Hematopoietic potential and retroviral transduction of CD34+ Thy–1+ peripheral blood stem cells from asymptomatic human immunodeficiency virus type–1–infected individuals mobilized with granulocyte colony–stimulating factor. Junker U, et al. **Blood** 1997 Jun 15;89(12):4299–306

Soluble thrombopoietin receptor (Mpl) and granulocyte colony–stimulating factor receptor directly stimulate proliferation of primitive hematopoietic progenitors of mice in synergy with steel factor or the ligand for Flt3/Flk2. Ku H, et al. **Blood** 1996 Dec 1;88(11):4124–31

Granulocyte colony–stimulating factor–induced comobilization of CD4– CD8– T cells and hematopoietic progenitor cells (CD34+) in the blood of normal donors. Kusnierz–Glaz CR, et al. **Blood** 1997 Apr 1;89(7):2586–95

Orderly process of sequential cytokine stimulation is required for activation and maximal proliferation of primitive human bone marrow CD34+ hematopoietic progenitor cells residing in G0. Ladd AC, et al. **Blood** 1997 Jul 15; 90(2):658–68

Cycling status of CD34+ cells mobilized into peripheral blood of healthy donors by recombinant human granulocyte colony–stimulating factor. Lemoli RM, et al. **Blood** 1997 Feb 15;89(4):1189–96

Antisense inhibition of c–fes proto–oncogene blocks PMA–induced macrophage differentiation in HL60 and in FDC–P1/MAC–11 cells. Manfredini R, et al. **Blood** 1997 Jan 1;89(1):135–45

The biologic properties of recombinant human thrombopoietin in the proliferation and megakaryocytic differentiation of acute myeloblastic leukemia cells. Matsumura I, et al. **Blood** 1996 Oct 15;88(8):3074–82

Impaired steel factor responsiveness differentially affects the detection and long–term maintenance of fetal liver hematopoietic stem cells in vivo. Miller CL, et al. **Blood** 1997 Feb 15;89(4):1214–23

Recombinant methionyl human stem cell factor and filgrastim for peripheral blood progenitor cell mobilization and transplantation in non–Hodgkin's lymphoma patients—results of a phase I/II trial. Moskowitz CH, et al. **Blood** 1997 May 1;89(9):3136–47

Activation of JNK signaling pathway by erythropoietin, thrombopoietin, and interleukin–3. Nagata Y, et al. **Blood** 1997 Apr 15;89(8):2664–9

In vivo effects of Flt3/Flk2 ligand on mobilization of hematopoietic progenitors in primates and potent synergistic enhancement with granulocyte colony–stimulating factor. Papayannopoulou T, et al. **Blood** 1997 Jul 15;90(2):620–9

Phenotypic and functional changes induced at the clonal level in hematopoietic stem cells after 5–fluorouracil treatment. Randall TD, et al. **Blood** 1997 May 15;89(10):3596–606

Inactivation of the Fanconi anemia group C gene augments interferon–gamma–induced apoptotic responses in hematopoietic celis. Rathbun RK, et al. **Blood** 1997 Aug 1;90(3):974–85

Genetic influences determining progenitor cell mobilization and leukocytosis induced by granulocyte colony–stimulating factor. Roberts AW, et al. **Blood** 1997 Apr 15;89(8):2736–44

E3, a hematopoietic–specific transcript directly regulated by the retinoic acid receptor alpha. Scott LM, et al. **Blood** 1996 Oct 1;88(7):2517–30

Effect of CD34+ selection and various schedules of stem cell reinfusion and granulocyte colony–stimulating factor priming on hematopoietic recovery after high–dose chemotherapy for breast cancer. Somlo G, et al. **Blood** 1997 Mar 1;89(5):1521–8

In vitro expansion of hematopoietic progenitor cells induces functional expression of Fas antigen (CD95). Takenaka K, et al. **Blood** 1996 Oct 15;88(8):2871–7

Dual action of retinoic acid on human embryonic/fetal hematopoiesis: blockade of primitive progenitor proliferation and shift from multipotent/erythroid/monocytic to granulocytic differentiation program. Tocci A, et al. **Blood** 1996 Oct 15;88(8):2878–88

Antisense oligodeoxyribonucleotides suppress hematologic cell growth through stepwise release of deoxyribonucleotides. Vaerman JL, et al. **Blood** 1997 Jul 1;90(1):331–9

Granulocyte colony–stimulating factor mobilizes into peripheral blood the complete clonal repertoire of hematopoietic precursors residing in the bone marrow of mice. Varas F, et al. **Blood** 1996 Oct 1;88(7):2495–501

Characterization of cis–acting sequences and trans–acting signals regulating early growth response 1 and c–fos promoters through the granulocyte–macrophage colony–stimulating factor receptor in BA/F3 cells. Watanabe S, et al. **Blood** 1997 Feb 15;89(4):1197–206

Interleukin–10 increases Bcl–2 expression and survival in primary human CD34+ hematopoietic progenitor cells. Weber–Nordt RM, et al. **Blood** 1996 Oct 1;88(7):2549–58

Characterization of cell cycle status and E2F complexes in mobilized CD34+ cells before and after cytokine stimulation. Williams CD, et al. **Blood** 1997 Jul 1; 90(1):194–203

Inhibitors of haemopoiesis and their potential clinical relevance. Parker AN, et al. **Blood Rev** 1995 Dec; 9(4):226–33 (79 ref.)

Preliminary results of stem cell mobilization in chronic myeloid leukemia with a moderate intensity chemotherapy regimen and G–CSF or G–CSF plus IL–3. Aulitzky WE, et al. **Bone Marrow Transplant** 1996 May;17 Suppl 3:S67–9

Phase I–II study of high–dose busulfan and cyclophosphamide followed by autologous peripheral blood stem cell transplantation for hematological malignancies: toxicities and hematopoietic recovery. Ballester OF, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):9–14

G–CSF post–autologous progenitor cell transplantation: a randomized study of 5, 10, and 16 micrograms/kg/day. Bolwell B, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):215–9

G–CSF mobilization of haemopoietic cell populations in SCID mice engrafted with human leukaemia. Clutterbuck RD, et al. **Bone Marrow Transplant** 1997 Aug;20(4):325–32

Increased levels of megakaryocyte progenitors in peripheral blood mobilised by chemotherapy and/or haemopoietic growth factor protocols. Dyson PG, et al. **Bone Marrow Transplant** 1996 Oct;18(4):705–12

Administration of G–CSF can be delayed after transplantation of autologous G–CSF–primed blood stem cells: a randomized study. Faucher C, et al. **Bone Marrow Transplant** 1996 Apr;17(4):533–6

Allogeneic transplantation of positively selected peripheral blood CD34+ progenitor cells from matched related donors. Finke J, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1081–6

Mobilization of peripheral blood progenitor cells with high–dose cyclophosphamide (4 or 7 g/m2) and granulocyte colony–stimulating factor in patients with multiple myeloma. Goldschmidt H, et al. **Bone Marrow Transplant** 1996 May;17(5):691–7

Changes in reticulocyte fractions during peripheral stem cell harvesting exclusively mobilized with rhG–CSF [letter; comment] González FA, et al. **Bone Marrow Transplant** 1996 Sep;18(3):673. Comment on: Bone Marrow Transplant 1996 Feb;17(2):163–8.

Dose–dependent mobilisation of haematopoietic progenitor cells in healthy volunteers receiving glycosylated rHuG–CSF. Höglund M, et al. **Bone Marrow Transplant** 1996 Jul;18(1):19–27

Use of rhG–CSF in the collection of peripheral blood stem cells for autologous blood stem cell transplantation in acute myeloblastic leukemia. Jurado M, et al. **Bone Marrow Transplant** 1996 Oct;18(4):821–2

Chemopurging of peripheral blood–derived progenitor cells by alkyl–lysophospholipid and its effect on haematopoietic rescue after high–dose therapy. Koenigsmann MP, et al. **Bone Marrow Transplant** 1996 Sep;18(3):549–57

Delayed effects of rhG–CSF mobilization treatment and apheresis on circulating CD34+ and CD34+ Thy–1dim CD38– progenitor cells, and lymphoid subsets in normal stem cell donors for allogeneic transplantation. Körbling M, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1073–9

Predictive factors affecting mobilization and peripheral blood stem cell (PBSC) collection using single apheresis (SA) for rescuing patients after high–dose chemotherapy (HD.CHE) in various malignancies. Koumakis G, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1065–72

Autologous stem cell transplantation with stem cells preserved in the presence of 4.5 and 2.2% DMSO [letter] Lakota J, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):262–3

Successful mobilisation of blood stem cells following previous autologous bone marrow transplantation [letter] McQuaker IG, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):263–4

Peripheral blood progenitor cell transplantation: a single centre experience comparing two mobilisation regimens in 67 patients. Mahendra P, et al. **Bone Marrow Transplant** 1996 Apr;17(4):503–7 (14 ref.)

Mobilization of peripheral blood progenitor cells by cyclophosphamide and rhGM–CSF in multiple myeloma. Martínez E, et al. **Bone Marrow Transplant** 1996 Jul; 18(1):1–7

Suppression of progenitor cell growth by vancomycin following autologous stem cell transplantation. Meehan KR, et al. **Bone Marrow Transplant** 1997 May; 19(10):1029–32

Peripheral blood stem cell (PBSC) collection in extremely low–weight infants. Nussbaumer W, et al. **Bone Marrow Transplant** 1996 Jul;18(1):15–7

Successful engraftment after primary graft failure in aplastic anemia using G–CSF mobilized peripheral stem cell transfusions. Redei I, et al. **Bone Marrow Transplant** 1997 Jan;19(2):175–7

HEMATOPOIETIC STEM CELLS

GM-CSF-mobilized peripheral blood CD34+ cells differ from steady-state bone marrow CD34+ cells in adhesion molecule expression. Watanabe T, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1175-81

Increase of mobilized CD34-positive peripheral blood progenitor cells in patients with Hodgkin's disease, non-Hodgkin's lymphoma, and cancer of the testis. Zeller W, et al. **Bone Marrow Transplant** 1996 May;17(5):709-13

High-dose mitoxantrone with peripheral blood progenitor cell rescue: toxicity, pharmacokinetics and implications for dosage and schedule. Ballestrero A, et al. **Br J Cancer** 1997; 76(6):797-804

Estimation of the haematological toxicity of minor groove alkylators using tests on human cord blood cells. Ghielmini M, et al. **Br J Cancer** 1997;75(6):878-83

BB-10010/MIP-1 alpha in vivo maintains haemopoietic recovery following repeated cycles of sublethal irradiation. Lord BI, et al. **Br J Cancer** 1996 Oct;74(7):1017-22

Continuous infusion of macrophage inflammatory protein MIP-1alpha enhances leucocyte recovery and haemopoietic progenitor cell mobilization after cyclophosphamide. Marshall E, et al. **Br J Cancer** 1997; 75(12):1715-20

A study of ovarian cancer patients treated with dose-intensive chemotherapy supported with peripheral blood progenitor cells mobilised by filgrastim and cyclophosphamide. Weaver A, et al. **Br J Cancer** 1996 Dec; 74(11):1821-7

In vivo effect of platelet factor 4 (PF4) and tetrapeptide AcSDKP on haemopoiesis of mice treated with 5-fluorouracil. Aidoudi S, et al. **Br J Haematol** 1996 Sep; 94(3):443-8

Mobilization of predominantly Philadelphia chromosome-negative blood progenitors using cyclophosphamide and rHUG-CSF in early chronic-phase chronic myeloid leukaemia: correlation with Sokal prognostic index and haematological control. Hughes TP, et al. **Br J Haematol** 1997 Mar;96(3):635-40

Progenitor cell yield in sequential blood stem cell mobilization in the same patients: insights into chemotherapy dose escalation and combination of haemopoietic growth factor and chemotherapy. Lie AK, et al. **Br J Haematol** 1996 Oct;95(1):39-44

Multilineage mobilization of peripheral blood progenitor cells in humans following administration of PEG-rHuMGDF. Rasko JE, et al. **Br J Haematol** 1997 Jun;97(4):871-80

Thrombopoietin alone stimulates the early proliferation and survival of human erythroid, myeloid and multipotential progenitors in serum-free culture. Yoshida M, et al. **Br J Haematol** 1997 Aug;98(2):254-64

Mobilization of peripheral blood progenitor cells by hematopoietic growth factors. Chao NJ. **Can J Oncol** 1995 Dec;5 Suppl 1:43-6

Differential toxicity of camptothecin, topotecan and 9-aminocamptothecin to human, canine, and murine myeloid progenitors (CFU-GM) in vitro. Erickson-Miller CL, et al. **Cancer Chemother Pharmacol** 1997;39(5):467-72

The response of IL-3 dependent B6SUtA bone marrow cells to both erythropoietin and chemical inducers of differentiation. Ishiguro K, et al. **Cancer Lett** 1996 Dec 20;110(1-2):233-41

In vitro toxicity induced by deoxynivalenol (DON) on human and rat granulomonocytic progenitors. Lautraite S, et al. **Cell Biol Toxicol** 1997 Mar;13(3):175-83

A cellular model for drug interactions on hematopoiesis: the use of human umbilical cord blood progenitors as a model for the study of drug-related myelosuppression of normal hematopoiesis. Léglise MC, et al. **Cell Biol Toxicol** 1996 Feb;12(1):39-53

Induction of apoptosis and inhibition of cell growth are independent responses to interferon-alpha in hematopoietic cell lines. Sangfelt O, et al. **Cell Growth Differ** 1997 Mar; 8(3):343-52

The antiproliferative activity of the tetrapeptide Acetyl-N-SerAspLysPro, an inhibitor of haematopoietic stem cell proliferation, is not mediated by a thymosin beta 4-like effect on actin assembly. Cheviron N, et al. **Cell Prolif** 1996 Aug;29(8):437-46

Stimulator of proliferation of spleen colony-forming cells in acute sterile inflammation. Milenković P, et al. **Cell Prolif** 1993 Nov;26(6):503-10

Stimulation of early eosinophil progenitors by a heat stable alveolar macrophage product from ovalbumin-sensitized and non-sensitized guinea pigs. Elsas MI, et al. **Clin Exp Allergy** 1997 Feb;27(2):208-17

Serum-free culture of human megakaryocyte progenitors. Masters GS, et al. **Clin Lab Haematol** 1997 Mar;19(1):61-5

Use of stem cell factor to mobilize hematopoietic progenitors. Bearman SI. **Curr Opin Hematol** 1997 May;4(3):157-62

Effects of interleukin 6 administration on platelets and haemopoietic progenitor cells in peripheral blood. Clarke D, et al. **Cytokine** 1996 Sep;8(9):717-23

Conditioned medium from primary porcine endothelial cells alone promotes the growth of primitive human haematopoietic progenitor cells with a high replating potential: evidence for a novel early haematopoietic activity. Davis TA, et al. **Cytokine** 1997 Apr;9(4):263-75

Inclusion of IL-3 during retrovirally-mediated transduction on stromal support does not increase the extent of gene transfer into long-term engrafting human hematopoietic progenitors. Dao MA, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):81-9

Mobilization of peripheral blood progenitor cells for allogeneic transplantation. Teshima A, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):101-14 (106 ref.)

Effects of prostaglandins on human hematopoietic osteoclast precursors. Roux S, et al. **Endocrinology** 1997 Apr; 138(4):1476-82

Effects of low concentrations of benzene on mouse hematopoietic cells in vivo: a preliminary report. Farris GM, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1275-6

Hydroquinone stimulates granulocyte-macrophage progenitor cells in vitro and in vivo. Henschler R, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1271-4

Alterations in fetal thymic and liver hematopoietic cells as indicators of exposure to developmental immunotoxicants. Holladay SD, et al. **Environ Health Perspect** 1996 Aug;104 Suppl 4:809-13 (34 ref.)

Impact of benzene metabolites on differentiation of bone marrow progenitor cells. Irons RD, et al. **Environ Health Perspect** 1996 Dec;104 Suppl 6:1247-50

Effects of TNP-470, a potent angiogenesis inhibitor, on growth of hematopoietic progenitors [letter] Hasuike T, et al. **Eur J Haematol** 1997 Apr;58(4):293-4

Enhanced hematopoiesis in sublethally irradiated mice treated with various quinolones. Shalit I, et al. **Eur J Haematol** 1997 Feb;58(2):92-8

Human FLT3 ligand acts on myeloid as well as multipotential progenitors derived from purified CD34+ blood progenitors expressing different levels of c-kit protein. Sonoda Y, et al. **Eur J Haematol** 1997 Apr;58(4):257-64

The effects of benzene and other leukaemogenic agents on haematopoietic stem and progenitor cell differentiation. Irons RD, et al. **Eur J Haematol Suppl** 1996;60:119-24 (40 ref.)

Human alkyltransferase-transduced murine myeloid progenitors are enriched in vivo by BCNU treatment of transplanted mice. Allay JA, et al. **Exp Hematol** 1997 Sep; 25(10):1069-76

Effects of short-term in vivo administration of G-CSF on bone marrow prior to harvesting. Dicke KA, et al. **Exp Hematol** 1997 Jan;25(1):34-8

In vitro synergistic inhibition of human bone marrow hemopoietic progenitor growth by a 3'-azido-3'-deoxy-thymidine, 2',3'-dideoxycytidine combination. Lerza R, et al. **Exp Hematol** 1997 Mar; 25(3):252-5

Colony-forming cells expressing high levels of CD34 are the main targets for granulocyte colony-stimulating factor and macrophage colony-stimulating factor in the human fetal liver. Muench MO, et al. **Exp Hematol** 1997 Apr; 25(4):277-87

Gene transfer to augment the therapeutic index of anticancer chemotherapy [editorial] Baum C, et al. **Gene Ther** 1996 Jan;3(1):1-3

Use of granulocyte-macrophage colony-stimulating factor (GM-CSF) in combination with hydroxyurea as post-transplant therapy in chronic myelogenous leukemia patients autografted with unmanipulated hematopoietic cells. Carlo-Stella C, et al. **Haematologica** 1997 May-Jun; 82(3):291-6

Two consecutive courses of rh-G-CSF-mobilized peripheral blood stem cells for primary marrow alloengraftment failure: case report. Martino M, et al. **Haematologica** 1996 Sep-Oct;81(5):464-7

Comparison of toxicity induced by HT-2 toxin on human and rat granulo-monocytic progenitors with an in vitro model. Lautraite S, et al. **Hum Exp Toxicol** 1996 Mar; 15(3):208-13

Use of safety-modified retroviruses to introduce chemotherapy resistance sequences into normal hematopoietic cells for chemoprotection during the therapy of breast cancer: a pilot trial. Deisseroth AB, et al. **Hum Gene Ther** 1996 Feb 10;7(3):401-16

TPSg, an anti-human immunodeficiency virus (HIV-1) agent, isolated from the Cupressaceae Thuja occidentale L. (Arborvitae) enhances in vivo hemopoietic progenitor cells recovery in sublethally irradiated mice. Hassan HT, et al. **Immunol Lett** 1996 Apr;50(1-2):119-22

Dimethyl sulfoxide induces programmed cell death and reversible G1 arrest in the cell cycle of human lymphoid pre-T cell line. Trubiani O, et al. **Immunol Lett** 1996 Apr; 50(1-2):51-7

Human thymocyte responsiveness to stem cell factor: synergy with interleukin-2 for the generation of NK/LAK cytotoxicity. Uittenbogaart CH, et al. **Immunol Lett** 1996 Aug;52(1):45-52

CD28-B7 interactions function to co-stimulate clonal deletion of double-positive thymocytes. Amsen D, et al. **Int Immunol** 1996 Dec;8(12):1927-36

G-CSF-induced mobilization of peripheral blood stem cells for allografting: comparative study of daily single versus divided dose of G-CSF. Yano T, et al. **Int J Hematol** 1997 Aug;66(2):169-78

Acceleration of hemopoietic recovery in dogs after extended-field partial-body irradiation by treatment with colony-stimulating factors: rhG-CSF and rhGM-CSF. Nothdurft W, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1145-54

Modulation of E2F activity is linked to interferon-induced growth suppression of hematopoietic cells. Iwase S, et al. **J Biol Chem** 1997 May 9;272(19):12406-14

Dexamethasone stimulates osteoclast-like cell formation by directly acting on hemopoietic blast cells and enhances osteoclast-like cell formation stimulated by parathyroid hormone and prostaglandin E2. Kaji H, et al. **J Bone Miner Res** 1997 May;12(5):734-41

Allogeneic-blood stem-cell collection following mobilization with low-dose granulocyte colony-stimulating factor. Bishop MR, et al. **J Clin Oncol** 1997 Apr;15(4):1601-7

Mobilization of peripheral-blood progenitor cells with high-dose etoposide and granulocyte colony-stimulating factor in patients with breast cancer, non-Hodgkin's lymphoma, and Hodgkin's disease. Copelan EA, et al. **J Clin Oncol** 1997 Feb;15(2):759-65

Progenitor-cell mobilization after low-dose cyclophosphamide and granulocyte colony-stimulating factor: an analysis of progenitor-cell quantity and quality and factors predicting for these parameters in 101 pretreated patients with malignant lymphoma. Watts MJ, et al. **J Clin Oncol** 1997 Feb;15(2):535-46

Definition of a natural killer NKR-P1A+/CD56-/CD16- functionally immature human NK cell subset that differentiates in vitro in the presence of interleukin 12 [published erratum appears in J Exp Med 1997 Mar 17;185(6):1150-1] Bennett IM, et al. **J Exp Med** 1996 Nov 1;184(5):1845-56

Molecular and functional characterization of two novel human C-C chemokines as inhibitors of two distinct classes of myeloid progenitors. Patel VP, et al. **J Exp Med** 1997 Apr 7;185(7):1163-72

rhG-CSF in healthy donors: mobilization of peripheral hemopoietic progenitors and effect on peripheral blood leukocytes. Sica S, et al. **J Hematother** 1996 Aug;5(4):391-7

Influence on CD8 of TCR/CD3-generated signals in CTL clones and CTL precursor cells. Anel A, et al. **J Immunol** 1997 Jan 1;158(1):19-28

Thrombopoietin promotes adhesion of primitive human hemopoietic cells to fibronectin and vascular cell adhesion molecule-1: role of activation of very late antigen (VLA)-4 and VLA-5. Cui L, et al. **J Immunol** 1997 Aug 15; 159(4):1961-9

IL-10 modulates formation of osteoclasts in murine hemopoietic cultures. Owens JM, et al. **J Immunol** 1996 Jul 15;157(2):936-40

Indirect suppression of IL-7-responsive B cell precursors by vasoactive intestinal peptide. Shimozato T, et al. **J Immunol** 1997 Jun 1;158(11):5178-84

Myeloid differentiation treatment to diminish the presence of immune-suppressive CD34+ cells within human head and neck squamous cell carcinomas. Young MR, et al. **J Immunol** 1997 Jul 15;159(2):990-6

Protection of hematopoietic progenitors from ultraviolet C by interleukin-1 and tumor necrosis factor-alpha. Moreb JS, et al. **J Interferon Cytokine Res** 1997 Jul;17(7):395-400

Interferon-gamma enhances megakaryocyte colony-stimulating activity in murine bone marrow cells. Tsuji-Takayama K, et al. **J Interferon Cytokine Res** 1996 Sep;16(9):701-8

Efficacy and safety of human leucocyte interferon-alpha treatment in patients younger than 60 years of age with polycythaemia vera. Stasi R, et al. **J Intern Med** 1997 Aug; 242(2):143-7

Effects of lipidic mediators on the growth of human myeloid and erythroid marrow progenitors. Dupuis F, et al. **J Lipid Mediat Cell Signal** 1997 Jul;16(3):117-25 (33 ref.)

Design of low molecular weight hematoregulatory agents from the structure-activity relationship of a dimeric pentapeptide. Cuthbertson AS, et al. **J Med Chem** 1997 Aug 29;40(18):2876-82

Phorbol ester enhancement of IL-3-dependent proliferation of primitive hematopoietic progenitors of mice in culture. Musashi M, et al. **J Pharmacol Exp Ther** 1997 Jan; 280(1):225-31

Photodynamic effects of meso-tetra (4-sulfonatophenyl)porphine on human leukemia cells HEL and HL60, human lymphocytes and bone marrow progenitor cells. Grebeňová D, et al. **J Photochem Photobiol B** 1997 Jul;39(3):269-78

Promotion of proliferation of murine hematopoietic stem cells by growth factors in murine amniotic fluid. Heidari Z, et al. **J Reprod Immunol** 1996 Aug;31(1-2):51-64

Interleukin-6 and granulocyte colony-stimulating factor synergistically increase peripheral blood progenitor cells in myelosuppressive mice. Suzuki H, et al. **Jpn J Cancer Res** 1996 Sep;87(9):938-44

CD34+Thy-1+Lin- stem cells from mobilized peripheral blood. Murray LJ, et al. **Leuk Lymphoma** 1996 Jun; 22(1-2):37-42, follow. 186, color plate I (57 ref.)

A comparison of the effect of the 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase inhibitors simvastatin, lovastatin and pravastatin on leukaemic and normal bone marrow progenitors. Newman A, et al. **Leuk Lymphoma** 1997 Feb;24(5-6):533-7

The comparison of 2-chlorodeoxyadenosine (2-Cd A) in combination with interferon alpha (IFN alpha) or interferon gamma (IFN gamma) on granulocyte-macrophage progenitor cells (CFU-GM) and clonogenic blasts in (CFU-L) in vitro cultures. Robak T, et al. **Leuk Lymphoma** 1996 Mar;21(1-2):161-8

Haemopoietic growth factors, the cell cycle of acute myeloblastic leukaemia progenitors and sensitivity to cytosine arabinoside. Smith MA, et al. **Leuk Lymphoma** 1996 Nov;23(5-6):467-72 (36 ref.)

In vitro activity on myeloid progenitors of a combination

of 2-chloro-2'-deoxyadenosine and interferon alpha: the effects of IL-1 and GM-CSF. Ballarino P, et al. **Leuk Res** 1996 Sep;20(9):777-80

Synergistic effects of interleukin-11 with other growth factors on the expansion of hematopoietic progenitors from normal individuals and chronic myeloid leukemia patients resistant to treatment with cytosine arabinoside or eilatin. Einat M, et al. **Leuk Res** 1996 Sep;20(9):751-9

Merocyanine 540 mediated photolysis of normal bone marrow, committed hemopoietic progenitors and neoplastic cells. implications for bone marrow purging. Lydaki E, et al. **Leuk Res** 1997 Jul;21(7):641-50

Predictors for optimal mobilization and subsequent engraftment of peripheral blood progenitor cells following intermediate dose cyclophosphamide and G-CSF. Morton J, et al. **Leuk Res** 1997 Jan;21(1):21-7

Stroma-conditioned media improve expansion of human primitive hematopoietic stem cells and progenitor cells. Breems DA, et al. **Leukemia** 1997 Jan;11(1):142-50

Effect of bcr-abl oligodeoxynucleotides on the clonogenic growth of chronic myelogenous leukaemia cells. de Fabritiis P, et al. **Leukemia** 1997 Jun;11(6):811-9

The combined effects of all-trans retinoic acid and TGF-beta on the initial proliferation of normal human bone marrow progenitor cells. Lardon F, et al. **Leukemia** 1996 Dec; 10(12):1937-43

Effect of a vitamin D3 analog, EB1089, on hematopoietic stem cells from normal and myeloid leukemic blasts. Lee YY, et al. **Leukemia** 1996 Nov;10(11):1751-7

Thrombopoietin augments ex vivo expansion of human cord blood-derived hematopoietic progenitors in combination with stem cell factor and flt3 ligand. Ohmizono Y, et al. **Leukemia** 1997 Apr;11(4):524-30

A fraction unresponsive to growth inhibition by TGF-beta among the high-proliferative potential progenitor cells in bone marrow of p53-deficient mice. Sasaki H, et al. **Leukemia** 1997 Feb;11(2):239-44

Induction of apoptosis by benzene metabolites in HL60 and CD34+ human bone marrow progenitor cells. Moran JL, et al. **Mol Pharmacol** 1996 Sep;50(3):610-5

Peripheral blood CD34+ cells: method of purification and ex vivo expansion. Bohbot A, et al. **Nouv Rev Fr Hematol** 1995;37(6):359-65

Ex vivo expansion of human peripheral blood progenitors. Chabannon C, et al. **Nouv Rev Fr Hematol** 1995;37(6):351-8

Expansion of blood CD34 positive cells: committed precursors expansion does not affect immature hematopoietic progenitors. David S, et al. **Nouv Rev Fr Hematol** 1995;37(6):343-9

Selection and expansion of CD34+ cells. McNiece IK. **Nouv Rev Fr Hematol** 1995;37(6):375-6

Ex vivo hematopoietic cell expansion: a theoretical and technological challenge. Poloni A, et al. **Nouv Rev Fr Hematol** 1995;37(6):367-73 (51 ref.)

Allogeneic transplantation of peripheral blood progenitor cells. Schmitz N. **Nouv Rev Fr Hematol** 1995;37(6):377-9

Characterization of factor-independent variants derived from TF-1 hematopoietic progenitor cells: the role of the Raf/MAP kinase pathway in the anti-apoptotic effect of GM-CSF. Chao JR, et al. **Oncogene** 1997 Feb 13; 14(6):721-8

Activation of quiescent ABL-transduced hemopoietic stem cells. Chung SW, et al. **Oncogene** 1996 Dec 5; 13(11):2397-405

Mobilized peripheral blood transplants may overtake ABMT within two years [news] **Oncology (Huntingt)** 1995 Jul; 9(7):597

Synergistic response of cord blood myeloid progenitor cells to the combined administration of human granulocyte colony-stimulating factor and human stem cell factor in vitro. Fujita A, et al. **Pediatr Res** 1996 Sep;40(3):388-92

Inhibition of human immunodeficiency virus-1 reverse transcriptase by heme and synthetic heme analogs. Staudinger R, et al. **Proc Assoc Am Physicians** 1996 Jan; 108(1):47-54

Cloning, expression, and characterization of a cDNA encoding a novel human growth factor for primitive hematopoietic progenitor cells. Hiraoka A, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7577-82

Cytokine manipulation of primitive human hematopoietic cell self-renewal. Zandstra PW, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4698-703

Stem cell factor has contrasting effects in combination with 5-fluorouracil or total-body irradiation on frequencies of different hemopoietic cell subsets and engraftment of transplanted bone marrow. Down JD, et al. **Radiat Res** 1997 Jun;147(6):680-5

Induction of granulocytic differentiation in myeloblasts by 17-beta-estradiol involves the leukotriene D4 receptor. Dietsch V, et al. **Recept Signal Transduct** 1996;6(2):63-75

The effect of ulinastatin on CFU-C colony formation in mouse myelocyte cultures. Endo S, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jan;95(1):109-12

Stimulatory effects of polar glycopeptidolipids of Mycobacterium chelonae on murine haematopoietic stem cells and megakaryocyte progenitors. Vincent-Naulleau S, et al. **Res Immunol** 1997 Feb;148(2):127-36

Mobilization of hematopoietic progenitor cells with Epoetin alfa. Kessinger AM, et al. **Semin Hematol** 1996 Jan;33(1 Suppl 1):10-5 (40 ref.)

Mobilization of peripheral blood progenitor cells with paclitaxel-based chemotherapy. Shea TC. **Semin Oncol** 1997 Feb;24(1 Suppl 2):S2-105-S2-107 (17 ref.)

Transplantation of allogeneic peripheral blood stem cells mobilized by recombinant human granulocyte colony stimulating factor. Bensinger WI, et al. **Stem Cells** 1996 Jan;14(1):90-105 (87 ref.)

Differential effect of erythropoietin and GM-CSF on megakaryocytopoiesis from primitive bone marrow cells in serum-free conditions. Cardier JE, et al. **Stem Cells** 1997; 15(4):286-90

In vitro growth of mobilized peripheral blood progenitor cells is significantly enhanced by stem cell factor. Cesana C, et al. **Stem Cells** 1997;15(3):207-13

In vitro production of megakaryocytes from PIXY321 versus GM-CSF-mobilized peripheral blood progenitor cells. Lefebvre P, et al. **Stem Cells** 1997;15(2):112-8

Optimization of the cycling of clonogenic and primitive cord blood progenitors by various growth factors. Movassagh M, et al. **Stem Cells** 1997;15(3):214-22

Changes in markers, receptors and adhesion molecules expressed on murine hemopoietic stem cells after a single injection of 5-fluorouracil. Nishio N, et al. **Stem Cells** 1996 Sep;14(5):584-91

Exposure of tilapian fish to the pesticide lindane results in hypocellularity of the primary hematopoietic organ (pronephros) and the spleen without altering activity of phagocytic cells in these organs. Hart LJ, et al. **Toxicology** 1997 Mar 28;118(2-3):211-21

Murine thymic lymphoma is associated with a species-specific hematopoietic progenitor cell subpopulation. Irons RD, et al. **Toxicology** 1996 Oct 28; 113(1-3):59-67

Analysis of apheresis content of progenitor cell collections from normal donors to whom granulocyte-colony-stimulating factor is administered. Weinthal JA, et al. **Transfusion** 1996 Nov-Dec; 36(11-12):943-7

Effect of malononitrilamides on human bone marrow. Czech J, et al. **Transplant Proc** 1996 Dec;28(6):3051-2

Striking augmentation of hematopoietic cell chimerism in noncytoablated allogeneic bone marrow recipients by FLT3 ligand and tacrolimus. Iyengar AR, et al. **Transplantation** 1997 May 15;63(9):1193-9

Effect in supralethally irradiated rats of granulocyte colony-stimulating factor and lisofylline on hematopoietic reconstitution by syngeneic bone marrow or whole organ passenger leukocytes. Murase N, et al. **Transplantation** 1997 Jun 27;63(12):1840-3

Programmed cell death of peripheral myeloid precursor cells in Down patients: effect of zinc therapy. Trubiani O, et al. **Ultrastruct Pathol** 1996 Sep-Oct;20(5):457-62

The effect of lead on the bone marrow stem cells of mice infected with Listeria monocytogenes. Bincoletto C, et al. **Vet Hum Toxicol** 1996 Jun;38(3):186-90

[The effects of histamine H2 receptor agonist, antagonist and antineoplastic agent on the in vitro growth of PB CFU-GM from normal individuals and HL-60 leukemia cells] He Q, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):340-5 (Eng. Abstr.) **(Chi)**

[Predictive value of the hemogram for myelotoxicity induced by the association of carboplatin-fluorouracil on the 4th day of the therapeutic regimen] Cappelaere P, et al. **Bull Cancer** 1996 Jul;83(7):559-65 (36 ref.) (Eng. Abstr.) **(Fre)**

[Mobilization of peripheral blood stem cells with conventional chemotherapy] Venturini M, et al. **Tumori** 1996 Mar-Apr;82(2 Suppl):S14-8 (25 ref.) (Eng. Abstr.) **(Ita)**

[Effect of the inhibitors of 3-hydroxy-3-methylglutaryl coenzyme-A reductase, pravastatin and simvastatin, on colony formation by hematopoietic progenitor cells] Kunitama M, et al. **Rinsho Ketsueki** 1996 Nov; 37(11):1314-7 (Eng. Abstr.) **(Jpn)**

[Current status and problems of G-CSF-induced mobilization of peripheral blood stem cell] Teshima T, et al. **Rinsho Ketsueki** 1997 Jun;38(6):479-83 **(Jpn)**

[The effect of leukemia-inhibitory factor on the hematopoiesis and stromal precursor cells in long-term culture of murine bone marrow] Drize NI, et al. **Biull Eksp Biol Med** 1996 Sep;122(9):325-8 **(Rus)**

ENZYMOLOGY

Changes in aldehyde dehydrogenase isozymes expression in long-term cultures of human hematopoietic progenitor cells. Meier-Tackmann D, et al. **Adv Exp Med Biol** 1997; 414:47-57

Antioxidant enzyme activity in murine hematopoietic bone marrow following treatment with interleukin 1 alpha: influence of tumor. Johnke RM, et al. **Anticancer Res** 1997 May-Jun;17(3C):2169-74

Use of myeloperoxidase mRNA as a marker for myeloid lineage in acute leukemias. Crisan D, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):828-34

Differential inhibition of telomerase activity during induction of differentiation in hematopoietic, melanoma, and glioma cells in culture. Cheng AJ, et al. **Biochem Biophys Res Commun** 1997 Aug 18;237(2):438-44

The role of phosphotyrosine phosphatases in haematopoietic cell signal transduction. Frearson JA, et al. **Bioessays** 1997 May;19(5):417-27 (85 ref.)

Focal adhesion kinase upregulated by granulocyte-macrophage colony-stimulating factor but not by interleukin-3 in differentiating myeloid cells. Kume A, et al. **Blood** 1997 May 1;89(9):3434-42

Expression and function of murine receptor tyrosine kinases, TIE and TEK, in hematopoietic stem cells. Yano M, et al. **Blood** 1997 Jun 15;89(12):4317-26

Jak3 activation in human lymphocyte precursor cells. Sharfe N, et al. **Clin Exp Immunol** 1997 Jun;108(3):552-6

Association of inhibitory tyrosine protein kinase p50csk with protein tyrosine phosphatase PEP in T cells and other hemopoietic cells. Cloutier JF, et al. **EMBO J** 1996 Sep 16;15(18):4909-18

Expression of DNA-dependent protein kinase holoenzyme upon induction of lymphocyte differentiation and V(D)J recombination. Grawunder U, et al. **Eur J Biochem** 1996 Nov 1;241(3):931-40

Human HPK1, a novel human hematopoietic progenitor kinase that activates the JNK/SAPK kinase cascade. Hu MC, et al. **Genes Dev** 1996 Sep 15;10(18):2251-64

Developmental regulation of alpha 1,3-fucosyltransferase expression in CD34 positive progenitors and maturing myeloid cells isolated from normal human bone marrow. Le Marer N, et al. **Glycobiology** 1997 Apr;7(3):357-65

Telomerase activity in human hematopoietic progenitor cells. Hohaus S, et al. **Haematologica** 1997 May-Jun;82(3):262-8

Characterization of rainbow trout terminal deoxynucleotidyl transferase structure and expression. TdT and RAG1 co-expression define the trout primary lymphoid tissues. Hansen JD. **Immunogenetics** 1997;46(5):367-75

Conditioned media obtained from a human mastocytosis cell strain induce mast cells expressing chymase but not tryptase from human progenitors. Li L, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):289-90

Reversal of 1,3-bis(2-chloroethyl)-1-nitrosourea-induced severe immunodeficiency by transduction of murine long-lived hemopoietic progenitor cells using O6-methylguanine DNA methyltransferase complementary DNA. Maze R, et al. **J Immunol** 1997 Jan 15;158(2):1006-13

Surface expression of hemopoietic cell phosphatase fails to complement CD45 deficiency and inhibits TCR-mediated signal transduction in a Jurkat T cell clone. Musci MA, et al. **J Immunol** 1997 Feb 15;158(4):1565-71

Esterase isoenzyme profiles of 255 leukemia-lymphoma cell lines from all hematopoietic cell lineages. Gignac SM, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):143-51,follow. 186, color plate XII

Telomerase activity during the cell cycle and in gamma-irradiated hematopoietic cells. Leteurtre F, et al. **Leukemia** 1997 Oct;11(10):1681-9

Receptor tyrosine kinases involved in hematopoietic progenitor cells. Suda T, et al. **Leukemia** 1997 Apr;11 Suppl 3:451-3

Differential expression of telomerase activity in hematopoietic progenitors from adult human bone marrow. Chiu CP, et al. **Stem Cells** 1996 Mar;14(2):239-48

Telomerase activity and phenotypic characterization in harvested bone marrow from a child with a germline cell cancer. Russo DA, et al. **Transplant Proc** 1997 Jun; 29(4):2002

IMMUNOLOGY

Latent membrane protein antibody reacts with normal hematopoietic precursor cells and leukemic blasts in tissues lacking Epstein-Barr virus genome by polymerase chain reaction. Hammer RD, et al. **Am J Clin Pathol** 1996 Oct; 106(4):469-74

Allergen-induced increase in bone marrow progenitors in airway hyperresponsive dogs: regulation by a serum hemopoietic factor. Inman MD, et al. **Am J Respir Cell Mol Biol** 1996 Sep;15(3):305-11

Recombinant human granulocyte colony-stimulating factor increases circulating CD34-postive cells in patients with AIDS. Nielsen SD, et al. **Ann Hematol** 1997 May; 74(5):215-20

Immunotyping of blasts in human bone marrow. Oertel J, et al. **Ann Hematol** 1996 Mar;72(3):125-9

Flt3 ligand prolongs survival of CD34++ + human umbilical cord blood myeloid progenitors in serum-depleted culture medium. Takahira H, et al. **Ann Hematol** 1996 Mar;72(3):131-5

Detection of trisomy 12 in CD34+ progenitor cells in a patient with B-cell chronic lymphocytic leukemia by fluorescence in situ hybridization. Gahn B, et al. **Ann Oncol** 1997;8 Suppl 2:55-7

Early T lymphocyte progenitors. Shortman K, et al. **Annu Rev Immunol** 1996;14:29-47 (85 ref.)

Modified cytotoxic T lymphocyte precursor frequency assay by measuring released europium in a time resolved fluorometer. Haque K, et al. **Arch Immunol Ther Exp (Warsz)** 1997;45(1):37-42

NK cell lines of different maturational status can be obtained from mouse foetal liver. Manoussaka M, et al. **Biochem Soc Trans** 1997 May;25(2):174S

Major histocompatibility complex restriction between hematopoietic stem cells and stromal cells in vivo. Hashimoto F, et al. **Blood** 1997 Jan 1;89(1):49-54

Differential expression of transforming growth factor-beta, basic fibroblast growth factor, and their receptors in CD34+ hematopoietic progenitor cells from patients with myelofibrosis and myeloid metaplasia. Le Bousse-Kerdilès MC, et al. **Blood** 1996 Dec 15;88(12):4534-46

HLA class II restricted T-cell reactivity to a developmentally regulated antigen shared by leukemic cells

and CD34+ early progenitor cells. Mutis T, et al. **Blood** 1997 Aug 1;90(3):1083–90

Isolation of a T–cell clone showing HLA–DRB1*0405–restricted cytotoxicity for hematopoietic cells in a patient with aplastic anemia. Nakao S, et al. **Blood** 1997 May 15;89(10):3691–9

Alloantigen presenting function of normal human CD34+ hematopoietic cells. Rondelli D, et al. **Blood** 1996 Oct 1; 88(7):2619–75

The characterization, molecular cloning, and expression of a novel hematopoietic cell antigen from CD34+ human bone marrow cells. Uchida N, et al. **Blood** 1997 Apr 15; 89(8):2706–16

Ex vivo manipulations of CD34+ peripheral blood progenitor cells. Brugger W, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S5–7 (25 ref.)

Pediatric experience with autologous peripheral blood progenitor cell transplantation: influence of CD34+ cell dose in engraftment kinetics. Diaz MA, et al. **Bone Marrow Transplant** 1996 Oct;18(4):699–703

Lymphokine–activated killer (LAK) cell generation from peripheral blood stem cells by in vitro incubation with low–dose interleukin–2 plus granulocyte–macrophage colony–stimulating factor. Herrera C, et al. **Bone Marrow Transplant** 1997 Mar;19(6):545–51

Peripheral blood stem cell transplantation in myeloma using CD34 selected cells. Johnson RJ, et al. **Bone Marrow Transplant** 1996 May;17(5):723–7

External quality assurance for CD34 cell enumeration–-results of a preliminary national trial. Royal Microscopical Society Clinical Flow Cytometry Group QA Schemes. Lowdell MW, et al. **Bone Marrow Transplant** 1996 May;17(5):849–53

Quality assurance of CD34+ cell estimation in leucapheresis products. Lumley MA, et al. **Bone Marrow Transplant** 1996 Oct;18(4):791–6

Isolation of CD34+ hematopoietic progenitor cells in chronic myeloid leukemia by magnetic activated cell sorting (MACS). Martín–Henao GA, et al. **Bone Marrow Transplant** 1996 Sep;18(3):603–9

Immunologic phenotype and function in human bone marrow, blood stem cells and umbilical cord blood. Mills KC, et al. **Bone Marrow Transplant** 1996 Jul;18(1):53–61

The efficiency of tumor cell purging using immunomagnetic CD34+ cell separation systems. Roots–Weiss A, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1239–46

The dielectrophoresis enrichment of CD34+ cells from peripheral blood stem cell harvests. Stephens M, et al. **Bone Marrow Transplant** 1996 Oct;18(4):777–82

Preferential sequestration in vitro of BCR/ABL negative hematopoietic progenitor cells among cytokine nonresponsive CML marrow CD34+ cells. Veena P, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1213–21

GM–CSF–mobilized peripheral blood CD34+ cells differ from steady–state bone marrow CD34+ cells in adhesion molecule expression. Watanabe T, et al. **Bone Marrow Transplant** 1997 Jun;19(12):1175–81

Concordant expression of class II and class III CD34 epitopes on haemopoietic cells in leukapheresis and cord blood samples with CD45/CD34 dual staining. Rudin CE, et al. **Br J Haematol** 1997 May;97(2):488–91

Transplantation of CD34+ hematopoietic progenitor cells [see comments] Berenson RJ, et al. **Cancer Invest** 1996; 14(6):589–96 (79 ref.). Comment in: Cancer Invest 1996;14(6):640–1.

Intestinal epithelial cell line induction of T cell differentiation from bone marrow precursors. Maric D, et al. **Cell Immunol** 1996 Sep 15;172(2):172–9

Composition and function of T–cell receptor and B–cell receptor complexes on precursor lymphocytes. Borst J, et al. **Curr Opin Immunol** 1996 Apr;8(2):181–90 (64 ref.)

Signalling in lymphocyte development. Owen MJ, et al. **Curr Opin Immunol** 1996 Apr;8(2):191–8 (64 ref.)

Lymphocyte development [editorial] Storb U, et al. **Curr Opin Immunol** 1996 Apr;8(2):155–9 (28 ref.)

Regulation of thymocyte development from immature progenitors. Zúñiga–Pflücker JC, et al. **Curr Opin Immunol** 1996 Apr;8(2):215–24 (96 ref.)

Quantification of CD34+ cells mobilized into the peripheral blood predicts the yield of the leukapheresis product and can replace progenitor assays. D'Hondt L, et al. **Cytokines Cell Mol Ther** 1997 Mar;3(1):21–6

CD34 progenitor cell subset analyses in normal human bone marrow and marrow harvested after intermediate–dose chemotherapy. Laughlin MJ, et al. **Cytometry** 1996 Dec 15;26(4):235–42

Frequency of T–cell progenitors in nude mice. Crispe IN. **Dev Immunol** 1996;4(4):257–61

Enrichment of early fetal–liver hemopoietic stem cells of the rat using monoclonal antibodies against the transferrin receptor, Thy–1, and MRC–OX82. Crook K, et al. **Dev Immunol** 1996;4(4):235–46

Change in FAS antigen expression during differentiation of CD34–positive cells isolated from peripheral blood stem cell harvest samples [letter] Yamane T, et al. **Eur J Haematol** 1997 Apr;58(4):289–90

The chemokine SDF–1, stromal cell–derived factor 1, attracts early stage B cell precursors via the chemokine receptor CXCR4. D'Apuzzo M, et al. **Eur J Immunol** 1997 Jul;27(7):1788–93

Structural identification of the hematopoietic progenitor antigen ER–MP12 as the vascular endothelial adhesion molecule PECAM–1 (CD31). Ling V, et al. **Eur J Immunol** 1997 Feb;27(2):509–14

Pluripotent and lineage–committed CD34+ subsets in leukapheresis products mobilized by G–CSF, GM–CSF vs. a combination of both. Ho AD, et al. **Exp Hematol** 1996 Nov;24(13):1460–8

CD3 gamma, CD3 delta, and CD3 zeta mRNA in adult human marrow hematopoietic progenitors correlates with surface CD2 and CD7 expression. Long H, et al. **Exp Hematol** 1996 Oct;24(12):1402–8

TGF–beta and MIP–1 alpha exert their main inhibitory activity on very primitive CD34+2CD38– cells but show opposite effects on more mature CD34+CD38+ human hematopoietic progenitors. Van Ranst PC, et al. **Exp Hematol** 1996 Nov;24(13):1509–15

Human CD34+ cells do not express glutathione S–transferases alpha. Czerwinski M, et al. **Gene Ther** 1997 Mar;4(3):268–70

Human umbilical cord blood: immunophenotypic heterogeneity of CD34+ hematopoietic progenitor cells. D'Arena G, et al. **Haematologica** 1996 Sep–Oct;81(5):404–9

Flow cytometry for CD34 determination in hematopoietic grafts. Drénou B. **Hematol Cell Ther** 1996 Dec;38(6):505–12 (59 ref.)

Expression of differentiation antigens and adhesion molecules on CD34+ cells in peripheral blood and bone marrow after chemotherapy followed by administration of granulocyte colony stimulating factor. Masauzi N. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):771–83

Retroviral transduction of CD34–enriched hematopoietic progenitor cells under serum–free conditions. Sekhar M, et al. **Hum Gene Ther** 1996 Jan;7(1):33–8

Generation of dendritic cells expressing bcr–abl from CD34–positive chronic myeloid leukemia precursor cells. Smit WM, et al. **Hum Immunol** 1997 Apr 1;53(2):216–23

Vanin–1, a novel GPI–linked perivascular molecule involved in thymus homing. Aurrand–Lions M, et al. **Immunity** 1996 Nov;5(5):391–405

Induction of TCR gene rearrangements in uncommitted stem cells by a subset of IL–7 producing, MHC class–II–expressing thymic stromal cells. Oosterwegel MA, et al. **Immunity** 1997 Mar;6(3):351–60

In vivo occupancy of the kappa light chain enhancers in primary pro– and pre–B cells: a model for kappa locus activation. Shaffer AL, et al. **Immunity** 1997 Feb; 6(2):131–43

Characterization of IgG Fc receptors on CD34 antigen–expressing cell lines (KG–1 and KG–1a). Wu Z, et al. **Immunol Cell Biol** 1996 Feb;74(1):57–64

Use of isolated immature–stage B cells to understand negative selection and tolerance induction at the molecular level. Norvell A, et al. **Immunol Res** 1996;15(3):191–207 (71 ref.)

From stem cells to lymphocytes: biology and transplantation. Aguila HL, et al. **Immunol Rev** 1997 Jun;157:13–40 (282 ref.)

Delineation of the human hematolymphoid system: potential applications of defined cell populations in cellular therapy. Chen BP, et al. **Immunol Rev** 1997 Jun;157:41–51 (65 ref.)

Aspects of lymphocyte developmental biology. von Boehmer H. **Immunol Today** 1997 Jun;18(6):260–2 (38 ref.)

Reconstitution of SCID mice with haemopoietic precursors: a detailed analysis of gamma delta T–cell reconstitution. Kelly KA, et al. **Immunology** 1997 May;91(1):65–72

Monoclonal antibody LR–1 recognizes murine heat–stable antigen, a marker of antigen–presenting cells and developing hematopoietic cells. Hunt DW, et al. **Int Arch Allergy Immunol** 1996 Nov;111(3):218–29

Early expression of Ig mu chain from a transgene significantly reduces the duration of the pro–B stage but does not affect the small pre–B stage. Arakawa H, et al. **Int Immunol** 1996 Aug;8(8):1319–28

Direct evidence for the commitment of hematopoietic stem cells to T, B and myeloid lineages in murine fetal liver. Kawamoto H, et al. **Int Immunol** 1997 Jul;9(7):1011–9

Heterogeneity of N insertion capacity in fetal hematopoietic stem cells. Komagata Y, et al. **Int Immunol** 1996 Jun; 8(6):837–45

Cross–linking of B cell antigen receptor–related structure of pre–B cell lines induces tyrosine phosphorylation of p85 and p110 subunits and activation of phosphatidylinositol 3–kinase. Kuwahara K, et al. **Int Immunol** 1996 Aug; 8(8):1273–85

Herpesvirus saimiri immortalization of alpha beta and gamma delta human T–lineage cells derived from CD34+ intrathymic precursors in vitro. Pacheco–Castro A, et al. **Int Immunol** 1996 Nov;8(11):1797–805

Ligation of MHC class I induces apoptosis in human pre–B cell lines, in promyelocytic cell lines and in CD40–stimulated mature B cells. Wallén–Ohman M, et al. **Int Immunol** 1997 Apr;9(4):599–606

A human non–XLA immunodeficiency disease characterized by blockage of B cell development at an early proB cell stage. Meffre E, et al. **J Clin Invest** 1996 Oct 1; 98(7):1519–26

Engraftment and molecular monitoring of CD34+ peripheral–blood stem–cell transplants for follicular lymphoma: a pilot study. McQuaker IG, et al. **J Clin Oncol** 1997 Jun;15(6):2288–95

Cross–linking the murine heat–stable antigen induces apoptosis in B cell precursors and suppresses the anti–CD40–induced proliferation of mature resting B lymphocytes. Chappel MS, et al. **J Exp Med** 1996 Nov 1;184(5):1638–49

Delayed maturation of CD4– CD8– Fc gamma RII/III+ T and natural killer cell precursors in Fc epsilon RI gamma transgenic mice. Flamand V, et al. **J Exp Med** 1996 Nov 1;184(5):1725–35

CD40 ligation on human cord blood CD34+ hematopoietic progenitors induces their proliferation and differentiation into functional dendritic cells. Flores–Romo L, et al. **J Exp Med** 1997 Jan 20;185(2):341–9

Ordering of human bone marrow B lymphocyte precursors by single–cell polymerase chain reaction analyses of the rearrangement status of the immunoglobulin H and L chain gene loci. Ghia P, et al. **J Exp Med** 1996 Dec 1; 184(6):2217–29

Whence the intestinal intraepithelial lymphocyte? [comment] Klein JR. **J Exp Med** 1996 Oct 1;184(4):1203–6. Comment on: J Exp Med 1996 Oct 1;184(4):1449–59.

Surrogate or conventional light chains are required for membrane immunoglobulin mu to activate the precursor B cell transition [published erratum appears in J Exp Med 1997 Jan 6;185(1):183] Papavasiliou F, et al. **J Exp Med** 1996 Nov 1;184(5):2025–30

A skin homing molecule defines the langerhans cell progenitor in human peripheral blood. Strunk D, et al. **J Exp Med** 1997 Mar 17;185(6):1131–6

Positive selection and transplantation of peripheral CD34+ progenitor cells: feasibility and purging efficacy in pediatric patients with neuroblastoma. Handgretinger R, et al. **J Hematother** 1997 Jun;6(3):235–42

Toward a worldwide standard for CD34+ enumeration? [letter] Johnsen HE. **J Hematother** 1997 Apr;6(2):83–9

QBEnd10 (CD34) antibody is unsuitable for routine use in the ISHAGE CD34+ cell determination assay [letter] Weinberg DS, et al. **J Hematother** 1996 Dec;5(6):599–603

Mouse CD1 is mainly expressed on hemopoietic–derived cells. Brossay L, et al. **J Immunol** 1997 Aug 1; 159(3):1216–24

Fetal liver contains committed NK progenitors, but is not a site for development of CD34+ cells into T cells. Jaleco AC, et al. **J Immunol** 1997 Jul 15;159(2):694–702

Hemopoietic progenitors in the murine fetal liver capable of rapidly generating T cells. Kawamoto H, et al. **J Immunol** 1997 Apr 1;158(7):3118–24

Antigenic phenotype and gene expression pattern of lymphohemopoietic progenitors during early mouse ontogeny. Marcos MA, et al. **J Immunol** 1997 Mar 15; 158(6):2627–37

B220 expression by T lymphoid progenitor cells in mouse fetal liver. Sagara S, et al. **J Immunol** 1997 Jan 15; 158(2):666–76

IL–1 beta convertase (ICE) does not play a requisite role in apoptosis induced in T lymphoblasts by Fas–dependent or Fas–independent CTL effector mechanisms. Smith DJ, et al. **J Immunol** 1997 Jan 1;158(1):163–70

Dendritic cells that process and present nominal antigens to naive T lymphocytes are derived from CD2+ precursors. Takamizawa M, et al. **J Immunol** 1997 Mar 1; 158(5):2134–42

Somatically mutated B cell pool provides precursors for insulin antibodies. Thomas JW, et al. **J Immunol** 1996 Jul 15;157(2):763–71

Class I–deficient hemopoietic cells and nonhemopoietic cells dominantly induce unresponsiveness of natural killer cells to class I–deficient bone marrow cell grafts. Wu MF, et al. **J Immunol** 1997 Feb 15;158(4):1628–33

Phenotype and function of hematopoietic–derived cells in the CNS of SCID mouse–Lewis rat bone marrow chimeras. Jones RE, et al. **J Neurosci Res** 1996 Sep 15;45(6):723–34

A gift of life: umbilical cord blood [editorial; comment] Cairo MS. **J Pediatr** 1997 May;130(5):686–8. Comment on: J Pediatr 1997 May;130(5):718–24.

Cultured human decidual stromal cells express antigens associated with hematopoietic cells. Montes MJ, et al. **J Reprod Immunol** 1996 Feb;30(1):53–66

Transduction of CD34+ hematopoietic progenitor cells with an antitat gene protects T–cell and macrophage progeny from AIDS virus infection. Rosenzweig M, et al. **J Virol** 1997 Apr;71(4):2740–6

Fas antigen (CD95) and hematopoietic progenitor cells. Nagafuji K, et al. **Leuk Lymphoma** 1996 Dec;24(1–2):43–56 (49 ref.)

Reactivity of anti–AraC–resistant cell monoclonal antibody, YU–311, in formalin–fixed paraffin–embedded specimens of various hematopoietic disorders. Fukuda T, et al. **Leuk Res** 1996 Nov–Dec;20(11–12):953–61

Fas/Apo–1 (CD95) expression and apoptosis in patients with myelodysplastic syndromes. Bouscary D, et al. **Leukemia** 1997 Jun;11(6):839–45

CD34+ megakaryoblastic leukaemic cells are CD38–, but CD61+ and glycophorin A+: improved criteria for diagnosis of AML–M7? Helleberg C, et al. **Leukemia** 1997 Jun;11(6):830–4

Peripheral blood is a source of BCR–ABL–negative pre–progenitors in early chronic phase chronic myeloid leukemia. Lewis ID, et al. **Leukemia** 1997 Apr;11(4):581–7

Activation of beta1 integrins on CML progenitors reveals cooperation between beta1 integrins and CD44 in the regulation of adhesion and proliferation. Lundell BI, et al. **Leukemia** 1997 Jun;11(6):822–9

Genetically transferred central and peripheral immune tolerance via retroviral–mediated expression of immunogenic epitopes in hematopoietic progenitors or

peripheral B lymphocytes. Zambidis ET, et al. **Mol Med** 1997 Mar;3(3):212–24

Engraftment of CD34+ peripheral blood progenitor cells into multiple myeloma patients following total body irradiation. Pico JL, et al. **Nouv Rev Fr Hematol** 1995; 37(6):381–3

Early increase of gut intraepithelial mast cell precursors following Strongyloides venezuelensis infection in mice. Tegoshi T, et al. **Parasitology** 1997 Feb;114 (Pt 2):181–7

HIV–1–related mechanisms of suppression of CD34+ hematopoietic progenitors. Zauli G, et al. **Pathobiology** 1996;64(1):53–8

Pluripotent hemopoietic stem cells are c-kit<low. Doi H, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2513–7

A novel pair of immunoglobulin–like receptors expressed by B cells and myeloid cells [see comments] Kubagawa H, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5261–6 . Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(12):5993–5.

Interleukin 7 independent development of human B cells. Prieyl JA, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17; 93(19):10348–53

Cross–talk between the T cell antigen receptor and the glucocorticoid receptor regulates thymocyte development. Ashwell JD, et al. **Stem Cells** 1996 Sep;14(5):490–500 (58 ref.)

Effects of recombinant human thrombopoietin alone and in combination with erythropoietin and early–acting cytokines on human mobilized purified CD34+ progenitor cells cultured in serum–depleted medium. Birkmann J, et al. **Stem Cells** 1997;15(1):18–32

The immunopathophysiology of acute graft–versus–host–disease. Ferrara JL, et al. **Stem Cells** 1996 Sep;14(5):473–89 (139 ref.)

Dendritic cells in immune response induction. Marland G, et al. **Stem Cells** 1996 Sep;14(5):501–7 (41 ref.)

HLA–G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 May;47(5):408–13

Development of registries of HLA–typed volunteer marrow donors [editorial; comment] Hansen JA. **Tissue Antigens** 1996 Jun;47(6):460–3. Comment on: Tissue Antigens 1996 Jun;47(6):457–9.

CpG methylation patterns in the 5' part of the nonclassical HLA–G gene in peripheral blood CD34+ cells and CD2+ lymphocytes. Onno M, et al. **Tissue Antigens** 1997 Apr; 49(4):356–64

CD69 expression on primitive progenitor cells and hematopoietic malignancies. Tassone P, et al. **Tissue Antigens** 1996 Jul;48(1):65–8

Decrease in Thy–1 expression on peripheral CD34 positive cells induced by G–CSF mobilization. The Tohoku Children Leukemia Study Group. Tsuchiya S, et al. **Tohoku J Exp Med** 1997 Jun;182(2):157–62

Factors affecting mobilization of CD34+ cells in normal donors treated with filgrastim. Anderlini P, et al. **Transfusion** 1997 May;37(5):507–12

Recruitment of CD34+ cells during large–volume leukapheresis [letter; comment] Cull G, et al. **Transfusion** 1997 Jun;37(6):672–3. Comment on: Transfusion 1996 Oct;36(10):879–85.

Mobilization kinetics of CD34+/Thy–1dim progenitor cells during recombinant human granulocyte–colony–stimulating factor administration in normal donors. Seong C, et al. **Transfusion** 1997 Apr; 37(4):406–10

PCR–flow analysis used to detect the levels of chimerism in peripheral blood of bone–marrow infused organ allograft recipients at the time of rejection episodes. Garcia–Morales R, et al. **Transplant Proc** 1997 Jun;29(4):2179–80

Immune response after syngeneic and allogeneic blood cell transplantation. Grzelak I, et al. **Transplant Proc** 1997 Jun; 29(4):2181–2

Expression of dendritic cell markers on bone marrow cells in a fraction enriched for the ability to prolong skin allograft survival in ALS–treated murine recipients. Masli S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1147–8

Detection of keratinocyte–specific helper T–lymphocyte precursor cells for prediction of acute graft–versus–host–disease. van Dijk AM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):720–1

Positive selection of EqCD8+ precursors increases equine lymphokine–activated killing. Lunn DP, et al. **Vet Immunol Immunopathol** 1996 Sep;53(1–2):1–13

[The diversity of human hematopoietic stem/progenitor cells. I. Two–color flow cytometric analysis of the different functional subpopulations of CD 34+ hematopoietic stem/progenitor cells riched from human bone marrow] Xi YZ, et al. **Shih Yen Sheng Wu Hsueh Pao** 1996 Mar; 29(1):49–57 (Eng. Abstr.) **(Chi)**

[CDw90 (Thy–1) expression on CD34 positive cells in peripheral blood stem cell harvest] Miyamoto K, et al. **Rinsho Ketsueki** 1997 Jan;38(1):9–13 (Eng. Abstr.) **(Jpn)**

[Alloreactivity and umbilical cord blood transplantation] Gallardo D, et al. **Sangre (Barc)** 1997 Apr;42(2):113–6 (22 ref.) **(Spa)**

METABOLISM

Beta–1–integrin expression in adult acute lymphoblastic leukemia: possible relationship with the stem cell antigen CD34. Cacciola RR, et al. **Acta Haematol** 1997; 97(1–2):63–6 (41 ref.)

Expression and function of integrins on hematopoietic progenitor cells. Coulombel L, et al. **Acta Haematol** 1997; 97(1–2):13–21 (92 ref.)

Long–term bone marrow cultures in polycythaemia vera and essential thrombocythaemia. Jantunen R, et al. **Acta Haematol** 1996;96(4):227–31

Expression of an L–selectin ligand on hematopoietic progenitor cells. Sackstein R. **Acta Haematol** 1997; 97(1–2):22–8 (51 ref.)

Correlation between CD34 expression and chromosomal abnormalities but not clinical outcome in acute myeloid leukemia. Fruchart C, et al. **Am J Hematol** 1996 Nov; 53(3):175–80

Kaposi's sarcoma cells express the macrophage–associated antigen mannose receptor and develop in peripheral blood cultures of Kaposi's sarcoma patients. Uccini S, et al. **Am J Pathol** 1997 Mar;150(3):929–38

A new lymphoblastoid cell line defective in class II HLA expression. Mańczak M, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2–3):171–8

Expression in hematopoietic cells of GATA–1 transcripts from the alternative "testis" promoter during development and cell differentiation. Moroni E, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):299–304

Selective expression of mRNA coding for the truncated form of erythropoietin receptor in hematopoietic cells and its decrease in patients with polycythemia vera. Chiba S, et al. **Blood** 1997 Jul 1;90(1):97–104

Expression of the human immunodeficiency virus type–1 coreceptors CXCR–4 (fusin, LESTR) and CKR–5 in CD34+ hematopoietic progenitor cells. Deichmann M, et al. **Blood** 1997 May 15;89(10):3522–8

A novel herpes vector for the high–efficiency transduction of normal and malignant human hematopoietic cells. Dilloo D, et al. **Blood** 1997 Jan 1;89(1):119–27

Transplantation and gene transfer of the human glucocerebrosidase gene into immunoselected primate CD34+Thy–1+ cells. Donahue RE, et al. **Blood** 1996 Dec 1;88(11):4166–72

High–dose multidrug resistance in primary human hematopoietic progenitor cells transduced with optimized retroviral vectors. Eckert HG, et al. **Blood** 1996 Nov 1; 88(9):3407–15

Expression of the RET receptor tyrosine kinase and GDNFR–alpha in normal and leukemic human hematopoietic cells and stromal cells of the bone marrow microenvironment. Gattei V, et al. **Blood** 1997 Apr 15; 89(8):2925–37

CD30 ligand is frequently expressed in human hematopoietic malignancies of myeloid and lymphoid origin. Gattei V, et al. **Blood** 1997 Mar 15;89(6):2048–59

Identification of a serpin specifically expressed in multipotent and bipotent hematopoietic progenitor cells and in activated T cells. Hampson IN, et al. **Blood** 1997 Jan 1; 89(1):108–18

Aberrant overexpression of the Wilms tumor gene (WT1) in human leukemia. Inoue K, et al. **Blood** 1997 Feb 15; 89(4):1405–12

P–selectin glycoprotein ligand–1 is broadly expressed in cells of myeloid, lymphoid, and dendritic lineage and in some nonhematopoietic cells. Laszik Z, et al. **Blood** 1996 Oct 15;88(8):3010–21

Cytokine receptor expression on hematopoietic stem and progenitor cells. McKinstry WJ, et al. **Blood** 1997 Jan 1; 89(1):65–71

Primitive hematopoietic cells in murine bone marrow express the CD34 antigen. Morel F, et al. **Blood** 1996 Nov 15; 88(10):3774–84

Phenotypic and functional evidence for the expression of CD4 by hematopoietic stem cells isolated from human fetal liver. Muench MO, et al. **Blood** 1997 Feb 15;89(4):1364–75

Expression of interleukin–7 receptor by lineage–negative human bone marrow progenitors with enhanced lymphoid proliferative potential and B–lineage differentiation capacity. Ryan DH, et al. **Blood** 1997 Feb 1;89(3):929–40

A hematopoietic cell L–selectin ligand exhibits sulfate–independent binding activity. Sackstein R, et al. **Blood** 1997 Apr 15;89(8):2773–81

Expression of growth factor receptors in unilineage differentiation culture of purified hematopoietic progenitors. Testa U, et al. **Blood** 1996 Nov 1; 88(9):3391–406

FLT3 receptor expression on the surface of normal and malignant human hematopoietic cells. Turner AM, et al. **Blood** 1996 Nov 1;88(9):3383–90

Genetic correction of p67phox deficient chronic granulomatous disease using peripheral blood progenitor cells as a target for retrovirus mediated gene transfer. Weil WM, et al. **Blood** 1997 Mar 1;89(5):1754–61

Human T lymphocytes and hematopoietic cell lines express CD24–associated carbohydrate epitopes in the absence of CD24 mRNA or protein. Williams LA, et al. **Blood** 1996 Oct 15;88(8):3048–55

CD34 expression patterns during early mouse development are related to modes of blood vessel formation and reveal additional sites of hematopoiesis. Wood HB, et al. **Blood** 1997 Sep 15;90(6):2300–11

Genomic structure, chromosomal localization, start of transcription, and tissue expression of the human p40–phox, a new component of the nicotinamide adenine dinucleotide phosphate–oxidase complex. Zhan S, et al. **Blood** 1996 Oct 1;88(7):2714–21

Cationic phosphonolipids as non viral vectors for DNA transfection in hematopoietic cell lines and CD34+ cells. Floch V, et al. **Blood Cells Mol Dis** 1997;23(1):69–87

The development of human megakaryocytes. II. CD4 expression occurs during haemopoietic differentiation and is an early step in megakaryocyte maturation. Basch RS, et al. **Br J Haematol** 1996 Sep;94(3):433–42

Cytokine and chemokine production by CD34+ haemopoietic progenitor cells: detection in single cells. Behringer D, et al. **Br J Haematol** 1997 Apr;97(1):9–14

The engagement of CD4 surface antigen in the HEL haemopoietic cell line up–regulates the transforming growth factor–beta1 (TGF–beta1) promoter activity. Gibellini D, et al. **Br J Haematol** 1997 Jun;97(3):571–8

Analysis of Tie receptor tyrosine kinase in haemopoietic progenitor and leukaemia cells. Kukk E, et al. **Br J Haematol** 1997 Jul;98(1):195–203

Expression and modulation of cellular receptors for interferon–gamma, tumour necrosis factor, and Fas on human bone marrow CD34+ cells. Sato T, et al. **Br J Haematol** 1997 May;97(2):356–65

Erythropoietin receptor expression on human bone marrow erythroid precursor cells by a newly–devised quantitative flow–cytometric assay. Shinjo K, et al. **Br J Haematol** 1997 Mar;96(3):551–8

A low but functionally significant MDR1 expression protects primitive haemopoietic progenitor cells from anthracycline toxicity. Smeets M, et al. **Br J Haematol** 1997 Feb; 96(2):346–55

Differences in the distribution of CD34 epitopes on normal haemopoietic progenitor cells and leukaemic blast cells. Steen R, et al. **Br J Haematol** 1996 Sep;94(4):597–605

The predominant E2F complex in human primary haemopoietic cells and in AML blasts contains E2F–4, DP–1 and p130. Williams CD, et al. **Br J Haematol** 1997 Mar;96(4):688–96

p62(dok): a constitutively tyrosine–phosphorylated, GAP–associated protein in chronic myelogenous leukemia progenitor cells. Carpino N, et al. **Cell** 1997 Jan 24; 88(2):197–204

Cross–linking of integrins induces tyrosine phosphorylation of the proto–oncogene product Vav and the protein tyrosine kinase Syk in human factor–dependent myeloid cells. Gotoh A, et al. **Cell Growth Differ** 1997 Jun; 8(6):721–9

Proliferating cell nuclear antigen and Ki–67 antigen expression in human haematopoietic cells during growth stimulation and differentiation. Landberg G, et al. **Cell Prolif** 1993 Sep;26(5):427–37

Excision of Ets by an inducible site–specific recombinase causes differentiation of Myb–Ets–transformed hematopoietic progenitors. Rossi F, et al. **Curr Biol** 1996 Jul 1;6(7):866–72

Composition and function of T–cell receptor and B–cell receptor complexes on precursor lymphocytes. Borst J, et al. **Curr Opin Immunol** 1996 Apr;8(2):181–90 (64 ref.)

Surface antigen expression on CD34+ cord blood cells: comparative analysis by flow cytometry and limiting dilution (LD) RT–PCR of chymopapain–treated or untreated cells. Ziegler BL, et al. **Cytometry** 1996 Sep 1; 25(1):46–57

Expression of the Ly–6E.1 (Sca–1) transgene in adult hematopoietic stem cells and the developing mouse embryo. Miles C, et al. **Development** 1997 Jan;124(2):537–47

Histone H1(0) expression is restricted to progenitor cells during human hematopoiesis. Valiron O, et al. **Eur J Cell Biol** 1997 Jan;72(1):39–45

The influence of growth hormone substitution therapy on erythroid and myeloid progenitor cells and on peripheral blood cells in adult patients with growth hormone deficiency. Kotzmann H, et al. **Eur J Clin Invest** 1996 Dec; 26(12):1175–81

High–level expression of the ER–MP58 antigen on mouse bone marrow hematopoietic progenitor cells marks commitment to the myeloid lineage. de Bruijn MF, et al. **Eur J Immunol** 1996 Dec;26(12):2850–8

The Wilms' tumor gene is expressed in a subset of CD34+ progenitors and downregulated early in the course of differentiation in vitro. Maurer U, et al. **Exp Hematol** 1997 Aug;25(9):945–50

Loss of flk–2/flt3 expression during commitment of multipotent mouse hematopoietic progenitor cells to the mast cell lineage. Pharr PN, et al. **Exp Hematol** 1997 Jul; 25(7):620–8

Specific binding of interferon–gamma to high affinity receptors on human erythroid colony–forming cells. Taniguchi S, et al. **Exp Hematol** 1997 Mar;25(3):193–8

Binding of histamine H3–receptor antagonists to hematopoietic progenitor cells. Evidence for a histamine transporter unrelated to histamine H3 receptors. Corbel S, et al. **FEBS Lett** 1997 Mar 10;404(2–3):289–93

Expression of differentiation antigens and adhesion molecules on CD34+ cells in peripheral blood and bone marrow after chemotherapy followed by administration of granulocyte colony stimulating factor. Masauzi N. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):771–83

In vitro and in vivo liposome–mediated gene transfer leads to human MDR1 expression in mouse bone marrow progenitor cells. Aksentijevich I, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1111–22

Transduction of human hematopoietic cells and cell lines using a retroviral vector containing a modified murine CD4

reporter gene. Bauer TR Jr, et al. **Hum Gene Ther** 1997 Feb 10;8(3):243–52

In vivo retrovirus–mediated gene transfer into multiple hematopoietic lineages in rabbits without preconditioning. Nelson DM, et al. **Hum Gene Ther** 1997 Apr 10;8(6):747–54

Stage–specific expression of mouse BST–1/BP–3 on the early B and T cell progenitors prior to gene rearrangement of antigen receptor. Ishihara K, et al. **Int Immunol** 1996 Sep; 8(9):1395–404

Heterogeneity of N insertion capacity in fetal hematopoietic stem cells. Komagata Y, et al. **Int Immunol** 1996 Jun; 8(6):837–45

Expression and functional characterization of the P–selectin glycoprotein ligand–1 in various cells. Fujimoto TT, et al. **Int J Hematol** 1996 Oct;64(3–4):231–9

Serotonin uptake, storage and metabolism in megakaryoblasts. Yang M, et al. **Int J Hematol** 1996 Feb; 63(2):137–42

Characterization of a novel tyrosine phosphorylated 100–kDa protein that binds to SHP–2 and phosphatidylinositol 3'–kinase in myeloid cells. Carlberg K, et al. **J Biol Chem** 1997 Jun 20;272(25):15943–50

P210 and P190(BCR/ABL) induce the tyrosine phosphorylation and DNA binding activity of multiple specific STAT family members. Ilaria RL Jr, et al. **J Biol Chem** 1996 Dec 6;271(49):31704–10

The related adhesion focal tyrosine kinase forms a complex with paxillin in hematopoietic cells. Salgia R, et al. **J Biol Chem** 1996 Dec 6;271(49):31222–6

Insulin receptor substrate–2 is the major 170–kDa protein phosphorylated on tyrosine in response to cytokines in murine lymphohemopoietic cells. Welham MJ, et al. **J Biol Chem** 1997 Jan 10;272(2):1377–81

Expression of basic helix–loop–helix transcription factors in explant hematopoietic progenitors. Quesenberry PJ, et al. **J Cell Biochem** 1996 Jun 1;61(3):478–88

HEMCAM, an adhesion molecule expressed by c–kit+ hemopoietic progenitors. Vainio O, et al. **J Cell Biol** 1996 Dec;135(6 Pt 1):1655–68

Growth factor receptor expression during in vitro differentiation of partially purified populations containing murine stem cells. Ashihara E, et al. **J Cell Physiol** 1997 Jun;171(3):343–56

Biochemical analysis of p120/130: a protein–tyrosine kinase substrate restricted to T and myeloid cells. da Silva AJ, et al. **J Immunol** 1997 Mar 1;158(5):2007–16

Tyrosine phosphorylation of Shc is not required for proliferation or viability signaling by granulocyte–macrophage colony–stimulating factor in hematopoietic cell lines. Durstin M, et al. **J Immunol** 1996 Jul 15;157(2):534–40

B220 expression by T lymphoid progenitor cells in mouse fetal liver. Sagara S, et al. **J Immunol** 1997 Jan 15; 158(2):666–76

Dendritic cells that process and present nominal antigens to naive T lymphocytes are derived from CD2+ precursors. Takamizawa M, et al. **J Immunol** 1997 Mar 1; 158(5):2134–42

Activation of the aryl hydrocarbon receptor/transcription factor and bone marrow stromal cell–dependent preB cell apoptosis. Yamaguchi K, et al. **J Immunol** 1997 Mar 1; 158(5):2165–73

Gene transfer of the uroporphyrinogen III synthase cDNA into haematopoietic progenitor cells in view of a future gene therapy in congenital erythropoietic porphyria. Mazurier F, et al. **J Inherit Metab Dis** 1997 Jun; 20(2):247–57

Adeno–associated virus type 2–mediated transduction of murine hematopoietic cells with long–term repopulating ability and sustained expression of a human globin gene in vivo. Ponnazhagan S, et al. **J Virol** 1997 Apr; 71(4):3098–104

Granulocyte colony–stimulating factor receptor at various differentiation stages of normal and leukemic hematopoietic cells. Shinjo K, et al. **Leuk Lymphoma** 1997 Mar; 25(1–2):37–46 (49 ref.)

CD44 and hyaluronan binding by human myeloid cells. Smadja–Joffe F, et al. **Leuk Lymphoma** 1996 May; 21(5–6):407–20, color plates following 528 (112 ref.)

Molecular analysis of hematopoietic colonies derived from chronic myeloid leukemia patients: interphase fluorescence in situ hybridization compared with RT–PCR. Thijsen SF, et al. **Leukemia** 1997 Feb;11(2):301–5

Hypersensitivity of bcr–abl–positive progenitors to hyperthermia in patients with chronic myeloid leukemia. Thijsen SF, et al. **Leukemia** 1997 Oct;11(10):1762–8

The BCR/ABL oncogene alters interaction of the adapter proteins CRKL and CRK with cellular proteins. Uemura N, et al. **Leukemia** 1997 Mar;11(3):376–85

Isolation of cytokine–inducible genes from hematopoietic cells by differential display. Zhu Y, et al. **Methods Mol Biol** 1997;85:153–61

Core binding factor cannot synergistically activate the myeloperoxidase proximal enhancer in immature myeloid cells without c–Myb. Britos–Bray M, et al. **Mol Cell Biol** 1997 Sep;17(9):5127–35

Abrogation of interleukin–3 dependence of myeloid cells by the v–src oncogene requires SH2 and SH3 domains which specify activation of STATs. Chaturvedi P, et al. **Mol Cell Biol** 1997 Jun;17(6):3295–304

Involvement of the protein tyrosine phosphatase SHP–1 in Ras–mediated activation of the mitogen–activated protein kinase pathway. Krautwald S, et al. **Mol Cell Biol** 1996 Nov;16(11):5955–63

Overexpression of HOXA10 in murine hematopoietic cells perturbs both myeloid and lymphoid differentiation and leads to acute myeloid leukemia. Thorsteinsdottir U, et al. **Mol Cell Biol** 1997 Jan;17(1):495–505

Tyrosine phosphorylation of p120cbl in BCR/abl transformed hematopoietic cells mediates enhanced association with phosphatidylinositol 3–kinase. Jain SK, et al. **Oncogene** 1997 May 8;14(18):2217–28

Raf/MAPK and rapamycin–sensitive pathways mediate the anti–apoptotic function of p21Ras in IL–3–dependent hematopoietic cells. Kinoshita T, et al. **Oncogene** 1997 Aug 7;15(6):619–27

Analysis of germline and expressed T cell receptor variable region genes in Crohn's disease. Thurley C, et al. **Pathol Res Pract** 1996 Oct;192(10):1022–30

Temporal mapping of gene expression levels during the differentiation of individual primary hematopoietic cells. Cheng T, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13158–63

An upstream, DNase I hypersensitive region of the hematopoietic–expressed transcription factor GATA–1 gene confers developmental specificity in transgenic mice. McDevitt MA, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7976–81

The level of mRNA encoding the amphotropic retrovirus receptor in mouse and human hematopoietic stem cells is low and correlates with the efficiency of retrovirus transduction. Orlic D, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11097–102

Endothelin expression in human megakaryoblastic leukemia cell lines and normal platelet precursors. Mathieu MN, et al. **Regul Pept** 1997 Jan 29;68(2):91–7

Coexpression of Kit and the receptors for erythropoietin, interleukin 6 and GM–CSF on hemopoietic cells. de Jong MO, et al. **Stem Cells** 1997;15(4):275–85

Thrombopoietic activity of recombinant human interleukin 11 (rHuIL–11) in normal and myelosuppressed nonhuman primates. Schlerman FJ, et al. **Stem Cells** 1996 Sep; 14(5):517–32

Lectin binding and uptake in human (myelo)monocytic cell lines: HL60 and U937. Schumacher U, et al. **Ultrastruct Pathol** 1996 Sep–Oct;20(5):463–71

[Fas antigen expression on human hematopoietic progenitor cells] Nagafuji K, et al. **Nippon Rinsho** 1996 Jul; 54(7):1790–6 (20 ref.) (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Microbial contamination of peripheral blood stem cell collections. Attarian H, et al. **Bone Marrow Transplant** 1996 May;17(5):699–702

RevM10–expressing T cells derived in vivo from transduced human hematopoietic stem–progenitor cells inhibit human immunodeficiency virus replication. Bonyhadi ML, et al. **J Virol** 1997 Jun;71(6):4707–16

Human cytomegalovirus latent gene expression in granulocyte–macrophage progenitors in culture and in seropositive individuals. Kondo K, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11137–42

Bacterial contamination of peripheral blood progenitor cells for transplantation. Jestice HK, et al. **Transfus Med** 1996 Jun;6(2):103–10

[Microorganism persistence in hematopoietic tissue: means for detecting it and its significance] Sanin AV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jul–Aug; (4):108–11 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Inhibition of marrow CFU–E colony formation from human immunodeficiency virus–infected patients by beta– and gamma–interferon. Dallalio G, et al. **Am J Hematol** 1996 Oct;53(2):118–20

The human immunodeficiency virus type 1 Tat protein potentiates zidovudine–induced cellular toxicity in transgenic mice. Prakash O, et al. **Arch Biochem Biophys** 1997 Jul 15;343(2):173–80

Quantitation of circulating hematopoietic progenitor cells early after transplantation. Gebauer W, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:165–9

Nonlinear effects of radiation dose on donor–cell reconstitution by limited numbers of purified stem cells. Rebel VI, et al. **Biol Blood Marrow Transplant** 1995 Nov; 1(1):32–9

Influence of preparatory regimen and source of hematopoietic cells on outcome of autotransplantation for non–Hodgkin's lymphoma. Stockerl–Goldstein KE, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):76–85

Enriched hematopoietic stem cells: basic biology and clinical utility [see comments] Szilvassy SJ, et al. **Biol Blood Marrow Transplant** 1995 Nov;1(1):3–17 (184 ref.) . Comment in: Biol Blood Marrow Transplant 1996 Feb;2(1):1–2.

Does the granulocyte–macrophage colony–forming unit content in ex vivo–expanded grafts predict the recovery of the recipient leukocytes? Albella B, et al. **Blood** 1997 Jul 1;90(1):464–70

Mouse strain–dependent changes in frequency and proliferation of hematopoietic stem cells during aging: correlation between lifespan and cycling activity. de Haan G, et al. **Blood** 1997 Mar 1;89(5):1543–50

Long–term maintenance of hematopoiesis in irradiated mice by retrovirally transduced peripheral blood stem cells. Drize N, et al. **Blood** 1997 Mar 1;89(5):1811–7

Retroviral gene transduction of adult peripheral blood or marrow–derived CD34+ cells for six hours without growth factors or on autologous stroma does not improve marking efficiency assessed in vivo. Emmons RV, et al. **Blood** 1997 Jun 1;89(11):4040–6

Autocrine loop through cholecystokinin–B/gastrin receptors involved in growth of human leukemia cells. Iwata N, et al. **Blood** 1996 Oct 1;88(7):2683–9

Identification of human juvenile chronic myelogenous leukemia stem cells capable of initiating the disease in primary and secondary SCID mice. Lapidot T, et al. **Blood** 1996 Oct 1;88(7):2655–64

Patterns of hematopoietic lineage involvement in children with neurofibromatosis type 1 and malignant myeloid disorders. Miles DK, et al. **Blood** 1996 Dec 1; 88(11):4314–20

Flt–3 ligand synergizes with granulocyte colony–stimulating factor to increase neutrophil numbers and to mobilize peripheral blood stem cells with long–term repopulating potential. Molineux G, et al. **Blood** 1997 Jun 1; 89(11):3998–4004

Fas–mediated apoptosis of the hematopoietic progenitor cells in mice infected with murine cytomegalovirus. Mori T, et al. **Blood** 1997 May 15;89(10):3565–73

Potential and distribution of transplanted hematopoietic stem cells in a nonablated mouse model. Nilsson SK, et al. **Blood** 1997 Jun 1;89(11):4013–20

Selective expansion of primitive normal hematopoietic cells in cytokine–supplemented cultures of purified cells from patients with chronic myeloid leukemia. Petzer AL, et al. **Blood** 1997 Jul 1;90(1):64–9

Mobilization of CD34+ progenitor cells by granulocyte colony–stimulating factor in human immunodeficiency virus type 1–infected adults. Slobod KS, et al. **Blood** 1996 Nov 1;88(9):3329–35

Partially differentiated ex vivo expanded cells accelerate hematologic recovery in myeloablated mice transplanted with highly enriched long–term repopulating stem cells. Szilvassy SJ, et al. **Blood** 1996 Nov 1;88(9):3642–53

Rapid engraftment without significant graft–versus–host disease after allogeneic transplantation of CD34+ selected cells from peripheral blood. Urbano–Ispizua A, et al. **Blood** 1997 Jun 1;89(11):3967–73

Lack of t(14;18) polymerase chain reaction–positive cells in highly purified CD34+ cells and their CD19 subsets in patients with follicular lymphoma. Voso MT, et al. **Blood** 1997 May 15;89(10):3763–8

Increased numbers of long–term culture–initiating cells in the apheresis product of patients randomized to receive increasing doses of stem cell factor administered in combination with chemotherapy and a standard dose of granulocyte colony–stimulating factor. Weaver A, et al. **Blood** 1996 Nov 1;88(9):3323–8

Mcl–1, a Bcl–2 family member, delays the death of hematopoietic cells under a variety of apoptosis–inducing conditions. Zhou P, et al. **Blood** 1997 Jan 15;89(2):630–43

Long–term hematopoietic culture–initiating cells are more abundant in mobilized peripheral blood grafts than in bone marrow but have a more limited ex vivo expansion potential. Srour EF, et al. **Blood Cells Mol Dis** 1996; 22(1):68–81

Ex vivo expansion of haemopoietic progenitor cells. Alcorn MJ, et al. **Blood Rev** 1996 Sep;10(3):167–76 (80 ref.)

Mobilization and selection of CD34–positive hematopoietic progenitors. Cagnoni PJ, et al. **Blood Rev** 1996 Mar; 10(1):1–7 (69 ref.)

Monoclonal plasma cells in the blood stem cell harvest from patients with multiple myeloma are associated with shortened relapse–free survival after transplantation. Gertz MA, et al. **Bone Marrow Transplant** 1997 Feb;19(4):337–42

Relationship of CD34+ cell dose to early and late hematopoiesis following autologous peripheral blood stem cell transplantation. Kiss JE, et al. **Bone Marrow Transplant** 1997 Feb;19(4):303–10

Detection of cancer cells in peripheral blood stem cells of women with breast cancer by RT–PCR and cell culture. Krüger WH, et al. **Bone Marrow Transplant** 1996 Sep;18 Suppl 1:S18–20

IL–2 effects on allogeneic and autologous transplant haemopoietic progenitors in long–term cultures. López–Jiménez J, et al. **Bone Marrow Transplant** 1996 Nov; 18(5):899–905

Deficient reconstitution of early progenitors after allogeneic bone marrow transplantation. Podestà M, et al. **Bone Marrow Transplant** 1997 May;19(10):1011–7

Plasma cells in peripheral blood stem cell harvests from patients with multiple myeloma are predominantly polyclonal. Pope B, et al. **Bone Marrow Transplant** 1997 Aug;20(3):205–10

Collection and use of peripheral blood stem cells in young children with refractory solid tumors. Shen V, et al. **Bone Marrow Transplant** 1997 Feb;19(3):197–204

Relevance of myeloablative conditioning in the engraftment of limiting numbers of normal and genetically marked lympho–hematopoietic stem cells. Varas F, et al. **Bone Marrow Transplant** 1996 Nov;18(5):981–9

Preferential sequestration in vitro of BCR/ABL negative hematopoietic progenitor cells among cytokine nonresponsive CML marrow CD34+ cells. Veena P, et

al. **Bone Marrow Transplant** 1997 Jun;19(12):1213–21

Primary proliferating immature myeloid cells from CML patients are not resistant to induction of apoptosis by DNA damage and growth factor withdrawal. Albrecht T, et al. **Br J Haematol** 1996 Dec;95(3):501–7

Colony counting is a major source of variation in CFU–GM results between centres. Lumley MA, et al. **Br J Haematol** 1997 May;97(2):481–4

Extended multidrug resistance in haemopoietic cells. Marks DC, et al. **Br J Haematol** 1996 Dec;95(4):587–95

Evaluation of "discordant maturation' in chronic myeloid leukaemia using cultures of primitive progenitor cells and their production of clonogenic progeny (CFU–GM). Marley SB, et al. **Br J Haematol** 1996 Nov;95(2):299–305

Generation of multinuclear tartrate–resistant acid phosphatase positive osteoclasts in liquid culture of purified human peripheral blood CD34+ progenitors [see comments] Pierelli L, et al. **Br J Haematol** 1997 Jan; 96(1):64–9. Comment in: Br J Haematol 1997 Jun;97(4):934–6.

Detection of melanoma cells in peripheral blood stem cell harvests of patients with progressive metastatic malignant melanoma. Probst–Kepper M, et al. **Br J Haematol** 1997 Aug;98(2):488–90

Biological properties of peripheral blood progenitor cells mobilized by cyclophosphamide and granulocyte colony–stimulating factor. Scott MA, et al. **Br J Haematol** 1997 May;97(2):474–80

In–vitro clonogenicity of mobilized peripheral blood CD34–expressing cells: inverse correlation to both relative and absolute numbers of CD34–expressing cells. Serke S, et al. **Br J Haematol** 1996 Nov;95(2):234–40

High–dose therapy with peripheral blood stem cell transplantation results in a significant reduction of the haemopoietic progenitor cell compartment. Voso MT, et al. **Br J Haematol** 1996 Sep;94(4):759–66

Selective elimination (purging) of contaminating malignant cells from hematopoietic stem cell autografts using recombinant adenovirus. Wroblewski JM, et al. **Cancer Gene Ther** 1996 Jul–Aug;3(4):257–64

Interleukin–3 plus interleukin–6 may improve chromosomal analysis of multiple myeloma: cytologic and cytogenetic evidence in thirty–four patients. Cuneo A, et al. **Cancer Genet Cytogenet** 1996 Sep;90(2):171–5

Stem cell renewal and determination during clonal expansion in normal and leukaemic haemopoiesis. McCulloch EA. **Cell Prolif** 1993 Sep;26(5):399–425 (240 ref.)

An artificial intelligent diagnostic system on differential recognition of hematopoietic cells from microscopic images. Beksaç M, et al. **Cytometry** 1997 Jun 15; 30(3):145–50

Immunophenotype definition of the stem/progenitor cell compartment. Implications for the identification of blast cells in acute leukemia. Moretti S, et al. **Eur J Histochem** 1996;40 Suppl 1:43–52 (59 ref.)

Reverse transcriptase–polymerase chain reaction (RT–PCR)–controlled immunomagnetic purging of breast cancer cells using the magnetic cell separation (MACS) system: a sensitive method for monitoring purging efficiency. Hildebrandt M, et al. **Exp Hematol** 1997 Jan; 25(1):57–65

Early hemopoietic progenitors in the peripheral blood of patients with severe aplastic anemia (SAA) after treatment with antilymphocyte globulin (ALG), cyclosporin–A and G–CSF. Bacigalupo A, et al. **Haematologica** 1997 Mar–Apr;82(2):133–7

Allogeneic hematopoietic stem cells from sources other than bone marrow: biological and technical aspects. Bertolini F, et al. **Haematologica** 1997 Mar–Apr;82(2):220–38 (205 ref.)

Response of the blast stem cells of acute myeloblastic leukemia to G–CSF, GM–CSF, or the ligand for C–KIT, alone or in combination. McCulloch EA, et al. **Hematopathol Mol Hematol** 1996;10(3):111–22

Haematopoietic progenitor cells transfected with a differentiation antigen show cellular transformation and tumour growth in mice. Huss R, et al. **Int J Exp Pathol** 1997 Jun;78(3):177–85

Pediatric large volume peripheral blood progenitor cell collections from patients under 25 kg: a primer. Gorlin JB, et al. **J Clin Apheresis** 1996;11(4):195–203

Safety of large–volume leukapheresis for collection of peripheral blood progenitor cells. Reik RA, et al. **J Clin Apheresis** 1997;12(1):10–3 (16 ref.)

The influence of flow cytometric gating strategy on the standardization of CD34+ cell quantitation: an Australian multicenter study. Australasian BMT Scientists Study Group. Chang A, et al. **J Hematother** 1996 Dec;5(6):605–16

Standardization of the CFU–GM assay using hematopoietic growth factors. Lewis ID, et al. **J Hematother** 1996 Dec; 5(6):625–30

Ex vivo expansion of hematopoietic progenitors from CD34+ cells selected from leukapheresis products of lymphoma and myeloma patients: feasibility and enhancement by fibronectin. Mahé B, et al. **J Hematother** 1996 Dec;5(6):671–9

Harvest quality and factors affecting collection and engraftment of CD34+ cells in patients with breast cancer scheduled for high–dose chemotherapy and peripheral blood progenitor cell support. Papadopoulos KP, et al. **J Hematother** 1997 Feb;6(1):61–8

Comparative analysis of breast cancer contamination in mobilized and nonmobilized hematopoietic grafts. Ross AA, et al. **J Hematother** 1996 Oct;5(5):549–52

Trilineage hematopoietic toxicity associated with valproic acid therapy. Bottom KS, et al. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):73–6

Emerging applications of gene transfer in the hematopoietic cancers. Brenner MK. **J Pediatr Hematol Oncol** 1997 Jan–Feb;19(1):1–6 (36 ref.)

Detection of large macrophage colony forming cells in the peripheral blood of patients with rheumatoid arthritis. Horie S, et al. **J Rheumatol** 1997 Aug;24(8):1517–21

Development of basophils in Mongolian gerbils: formation of basophilic cell clusters in the bone marrow after Nippostrongylus brasiliensis infection. Okada M, et al. **Lab Invest** 1997 Jan;76(1):89–97

Proliferation and differentiation of myelodysplastic CD34+ cells. Sawada K. **Leuk Lymphoma** 1996 Jun;22(1–2):43–51 (127 ref.)

Diagnostic applications of haemopoietic progenitor culture techniques in polycythaemias and thrombocythaemias. Westwood NB, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:95–103 (91 ref.)

In leukemic hematopoiesis CD34 antigen does not have the same significance as it does normal hematopoiesis. Del Cañizo MC, et al. **Leuk Res** 1997 Jul;21(7):651–6

Morphological changes and apoptosis in bone marrow from patients with myelodysplastic syndromes treated with granulocyte–CSF and erythropoietin [see comments] Hellström–Lindberg E, et al. **Leuk Res** 1997 May; 21(5):415–25. Comment in: Leuk Res 1997 May;21(5):427–8.

Incidence and role of apoptosis in myelodysplastic syndrome: morphological and ultrastructural assessment. Bogdanović AD, et al. **Leukemia** 1997 May;11(5):656–9

Fas/Apo–1 (CD95) expression and apoptosis in patients with myelodysplastic syndromes. Bouscary D, et al. **Leukemia** 1997 Jun;11(6):839–45

BCR/ABL–negative progenitors are enriched in the adherent fraction of CD34+ cells circulating in the blood of chronic phase chronic myeloid leukemia patients. Grand FH, et al. **Leukemia** 1997 Sep;11(9):1486–92

Cytogenetic analysis of CD34+ subpopulations in AML and MDS characterized by the expression of CD38 and CD117. Haase D, et al. **Leukemia** 1997 May;11(5):674–9

All–trans retinoic acid potentiates the inhibitory effects of interferon alpha on chronic myeloid leukemia progenitors in vitro. Mahon FX, et al. **Leukemia** 1997 May;11(5):667–73

Establishment of multipotential and antigen presenting cell lines derived from myeloid leukemias in GM–CSF transgenic mice. Rasko JE, et al. **Leukemia** 1997 May; 11(5):732–42

Clonality analysis of hematopoietic cell lineages in acute myeloid leukemia and translocation (8;21): only myeloid cells are part of the malignant clone [published erratum appears in Leukemia 1997 Jun;11(6):896] van Lom K, et al. **Leukemia** 1997 Feb;11(2):202–5

p53 overexpression in myeloid leukemic disorders is associated with increased apoptosis of hematopoietic marrow cells and ineffective hematopoiesis. Orazi A, et al. **Mod Pathol** 1996 Jan;9(1):48–52

Human acute myeloid leukemia is organized as a hierarchy that originates from a primitive hematopoietic cell. Bonnet D, et al. **Nat Med** 1997 Jul;3(7):730–7

Cell populations in the bone marrow of guinea pig fetuses with intrauterine growth retardation. Ernst LM, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):561–8

Results of MDR–1 vector modification trial indicate that granulocyte/macrophage colony–forming unit cells do not contribute to posttransplant hematopoietic recovery following intensive systemic therapy [published erratum appears in Proc Natl Acad Sci U S A 1997 May 13;94(10):5495] Hanania EG, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15346–51

Distinct qualitative differences between normal and abnormal hemopoietic stem cells in vivo and in vitro. Kawamura M, et al. **Stem Cells** 1997;15(1):56–62

Molecular basis of paroxysmal nocturnal hemoglobinuria. Parker CJ. **Stem Cells** 1996 Jul;14(4):396–411 (56 ref.)

Large–volume leukapheresis in pediatric patients [letter; comment] Cassens U, et al. **Transfusion** 1997 Jun; 37(6):671–2. Comment on: Transfusion 1996 Oct;36(10):879–85.

Large–volume leukapheresis in pediatric patients: processing more blood diminishes the apparent magnitude of intra–apheresis recruitment [see comments] Gorlin JB, et al. **Transfusion** 1996 Oct;36(10):879–85. Comment in: Transfusion 1997 Jun;37(6):671–2. Comment in: Transfusion 1997 Jun;37(6):672–3.

Telomerase activity and phenotypic characterization in harvested bone marrow from a child with a germline cell cancer. Russo DA, et al. **Transplant Proc** 1997 Jun; 29(4):2002

Estimation of the progenitor cell yield in a leukapheresis product by previous measurement of CD34+ cells in the peripheral blood. Möhle R, et al. **Vox Sang** 1996;71(2):90–6

Peripheral blood progenitor cell collection during hematopoietic recovery following autologous blood progenitor cell transplantation. Schwella N, et al. **Vox Sang** 1997;72(2):118–20

[Acceleration of hematopoietic reconsitution in mice transplanted with syngeneic bone marrow cells by IL–6 gene therapy] Cai R, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):97–101 (Eng. Abstr.) **(Chi)**

[Experimental study on in vivo hematopoietic regulation of IL–6 gene–transfected tumor vaccine] Ge L, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):93–6 (Eng. Abstr.) **(Chi)**

[A study on the peripheral blood stem cells mobilization, collection and their effects on engraftment] Wang L, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Oct;34(10):659–62 (Eng. Abstr.) **(Chi)**

[Flow cytometric characterization of maturation processes and primitive stem cell population in pre–B–cell ALL in childhood] Baersch G, et al. **Klin Padiatr** 1996 Jul–Aug; 208(4):160–7 (Eng. Abstr.) **(Ger)**

[Cell composition of umbilical cord blood in complicated and uncomplicated pregnancy] Alekseev IV, et al. **Gematol Transfuziol** 1996 Mar–Apr;41(2):16–8 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Lineage– and differentiation stage–specific expression of LSM–1 (LPAP), a possible substrate for CD45, in human hematopoietic cells. Shimizu Y, et al. **Am J Hematol** 1997 Jan;54(1):1–11

A possible role for L–selectin in the release of polymorphonuclear leukocytes from bone marrow. van Eeden SF, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1717–24

Cytokine receptor signal transduction and the control of hematopoietic cell development. Watowich SS, et al. **Ann Rev Cell Dev Biol** 1996;12:91–128 (280 ref.)

Haemopoietic growth factors and leukaemogenesis. Pierce A, et al. **Biochem Soc Trans** 1997 May;25(2):366–70 (45 ref.)

Protein kinase C plays a key role in the cross–talk between intracellular signalings via prostanoid receptors in a megakaryoblastic cell line, MEG–01s. Watanabe T, et al. **Biochim Biophys Acta** 1996 Nov 22;1304(2):161–9

Does angiotensin play a role in human fetal erythropoiesis? Anderson EM, et al. **Biol Neonate** 1997;71(3):194–7

Bone marrow stroma–derived prolactin is involved in basal and platelet–activating factor–stimulated in vitro erythropoiesis. Bellone G, et al. **Blood** 1997 Jul 1;90(1):21–7

Expression of the Id family helix–loop–helix regulators during growth and development in the hematopoietic system. Cooper CL, et al. **Blood** 1997 May 1;89(9):3155–65

Retroviral transduction of human progenitor cells: use of granulocyte colony–stimulating factor plus stem cell factor to mobilize progenitor cells in vivo and stimulation by Flt3/Flk–2 ligand in vitro. Elwood NJ, et al. **Blood** 1996 Dec 15;88(12):4452–62

Cloning and characterization of exodus, a novel beta–chemokine. Hromas R, et al. **Blood** 1997 May 1; 89(9):3315–22

CD44–mediated adhesiveness of human hematopoietic progenitors to hyaluronan is modulated by cytokines. Legras S, et al. **Blood** 1997 Mar 15;89(6):1905–14

Wilms' tumor gene expression in human CD34+ hematopoietic progenitors during fetal development and early clonogenic growth [letter] Menssen HD, et al. **Blood** 1997 May 1;89(9):3486–7

Phenotype and function of human hematopoietic cells engrafting immune–deficient CB17–severe combined immunodeficiency mice and nonobese diabetic–severe combined immunodeficiency mice after transplantation of human cord blood mononuclear cells. Pflumio F, et al. **Blood** 1996 Nov 15;88(10):3731–40

The expression of Bcl–x is downregulated during differentiation of human hematopoietic progenitor cells along the granulocyte but not the monocyte/macrophage lineage. Sanz C, et al. **Blood** 1997 May 1;89(9):3199–204

CD44 regulates hematopoietic progenitor distribution, granuloma formation, and tumorigenicity. Schmits R, et al. **Blood** 1997 Sep 15;90(6):2217–33

P–selectin glycoprotein ligand–1 is essential for adhesion to P–selectin but not E–selectin in stably transfected hematopoietic cell lines. Snapp KR, et al. **Blood** 1997 Feb 1;89(3):896–901

Receptor protein tyrosine phosphatase gamma, Ptp gamma, regulates hematopoietic differentiation. Sorio C, et al. **Blood** 1997 Jul 1;90(1):49–57

Synergistic effect of FLT–3 ligand on the granulocyte colony–stimulating factor–induced mobilization of hematopoietic stem cells and progenitor cells into blood in mice. Sudo Y, et al. **Blood** 1997 May 1;89(9):3186–91

Augmented production of interleukin–6 by normal human osteoblasts in response to CD34+ hematopoietic bone marrow cells in vitro. Taichman RS, et al. **Blood** 1997 Feb 15;89(4):1165–72

Transcription factors, normal myeloid development, and leukemia. Tenen DG, et al. **Blood** 1997 Jul 15;90(2):489–519 (455 ref.)

Flt3 ligand level reflects hematopoietic progenitor cell function in aplastic anemia and chemotherapy–induced bone marrow aplasia. Wodnar–Filipowicz A, et al. **Blood** 1996 Dec 15;88(12):4493–9

Clonogenic capacity and ex vivo expansion potential of umbilical cord blood progenitor cells are not impaired by cryopreservation. Almici C, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1079–84

Antitumor and accessory immune activities of peripheral blood stem cells mobilized with granulocyte–macrophage

colony-stimulating factor. Triozzi PL, et al. **Bone Marrow Transplant** 1996 Jul;18(1):47–52

The purification of CD34 cells from human cord blood: comparison of separation techniques and cytokine requirements for optimal growth of clonogenic progenitors. Charbord P, et al. **Br J Haematol** 1996 Sep;94(3):449–54

The role of CS1 moiety of fibronectin in VLA mediated haemopoietic progenitor trafficking. Craddock CF, et al. **Br J Haematol** 1997 Apr;97(1):15–21

Functional activity of CD44 isoforms in haemopoiesis of the rat. Khaldoyanidi S, et al. **Br J Haematol** 1997 Jan; 96(1):31–45

Haemopoietic progenitor homing and mobilization. Turner ML, et al. **Br J Haematol** 1996 Sep;94(4):592–6 (55 ref.)

T cell progenitors in the murine fetal liver: differences from those in the adult bone marrow. Watanabe Y, et al. **Cell Immunol** 1997 Apr 10;177(1):18–25

Stem cell renewal and determination during clonal expansion in normal and leukaemic haemopoiesis. McCulloch EA. **Cell Prolif** 1993 Sep;26(5):399–425 (240 ref.)

High-efficiency recovery of immature haematopoietic progenitor cells with extensive proliferative capacity from human cord blood cryopreserved for 10 years. Broxmeyer HE, et al. **Clin Exp Immunol** 1997 Jan;107 Suppl 1:45–53

Development of the hematopoietic system. Orkin SH. **Curr Opin Genet Dev** 1996 Oct;6(5):597–602 (44 ref.)

Signalling in lymphocyte development. Owen MJ, et al. **Curr Opin Immunol** 1996 Apr;8(2):191–8 (64 ref.)

Uncoupling of stem cell inhibition from monocyte chemoattraction in MIP-1alpha by mutagenesis of the proteoglycan binding site. Graham GJ, et al. **EMBO J** 1996 Dec 2;15(23):6506–15

Gene transfer to hematopoietic cells--the clinical experience. Richter J. **Eur J Haematol** 1997 Aug;59(2):67–75 (36 ref.)

Induction of erythroid gene expression by microcell fusion. Kanamori H, et al. **Exp Cell Res** 1997 Apr 10;232(1):90–6

Response to "Mobilization of peripheral blood 'stem' cells: where there is smoke, is there fire?" Yes, there have been many fires, leaving cold coals [letter; comment] Cronkite EP. **Exp Hematol** 1997 Mar;25(3):185–6 (19 ref.). Comment on: Exp Hematol 1995 Apr;23(4):293–5.

Interleukin-7R alpha mRNA expression increases as stem cells differentiate into T and B lymphocyte progenitors. Orlic D, et al. **Exp Hematol** 1997 Mar;25(3):217–22

Phenotypic and functional characterization of committed and primitive myeloid and lymphoid hematopoietic precursors in human fetal liver. Roy V, et al. **Exp Hematol** 1997 May; 25(5):387–94

Gestational age and cell viability determine the effect of frozen storage on human fetal hematopoietic progenitor cell preparations. Anderson EM, et al. **Fetal Diagn Ther** 1996 Nov-Dec;11(6):427–32

Expansion of polyclonal B-cell precursors in bone marrow from children treated for acute lymphoblastic leukemia. Duval M, et al. **Hematol Cell Ther** 1997 Jun;39(3):139–47

Cytokine-mediated expansion does not deplete cord blood cells with stem cell characteristics. Rice AM, et al. **Hematol Cell Ther** 1997 Jun;39(3):125–31

Extramedullary hematopoiesis in the adult mouse liver is associated with specific hepatic sinusoidal endothelial cells. Cardier JE, et al. **Hepatology** 1997 Jul;26(1):165–75

Partial cloning of rat CD34 cDNA and expression during stem cell-dependent liver regeneration in the adult rat. Omori N, et al. **Hepatology** 1997 Sep;26(3):720–7

The expression of fetuin in the development and maturation of the hemopoietic and immune systems. Dziegielewska K, et al. **Histochem Cell Biol** 1996 Sep;106(3):319–30

Human B-cell progenitors and bone marrow microenvironment. Campana D, et al. **Hum Cell** 1996 Dec; 9(4):317–22 (30 ref.)

Uncontrolled triggering of programmed cell death (apoptosis) in haematopoietic stem cells: a new hypothesis for the pathogenesis of aplastic anaemia. Laveder F, et al. **Immunol Cell Biol** 1996 Apr;74(2):159–62

Differentiation of eosinophils from cord blood cell precursors: kinetics of Fc epsilon RI and Fc epsilon RII expression. Capron M, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):48–50

Bone marrow progenitors in allergic airways diseases: studies in canine and human models. Denburg JA, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):181–3

In vitro development of hematopoietic system from mouse embryonic stem cells: a new approach for embryonic hematopoiesis. Nakano T. **Int J Hematol** 1996 Dec; 65(1):1–8

PU.1 is essential for p47(phox) promoter activity in myeloid cells. Li SL, et al. **J Biol Chem** 1997 Jul 11;272(28):17802–9

Requirement of the caspase-3/CPP32 protease cascade for apoptotic death following cytokine deprivation in hematopoietic cells. Ohta T, et al. **J Biol Chem** 1997 Sep 12;272(37):23111–6

HMG-I(Y) phosphorylation status as a nuclear target regulated through insulin receptor substrate-1 and the I4R motif of the interleukin-4 receptor. Wang D, et al. **J Biol Chem** 1997 Oct 3;272(40):25083–90

P-selectin glycoprotein ligand 1 is a ligand for L-selectin on neutrophils, monocytes, and CD34+ hematopoietic progenitor cells. Spertini O, et al. **J Cell Biol** 1996 Oct; 135(2):523–31

Induction of IL-6 production by bone marrow stromal cells on the adhesion of IL-6-dependent hematopoietic cells. Ogasawara H, et al. **J Cell Physiol** 1996 Oct;169(1):209–16

The chemokine SDF-1 is a chemoattractant for human CD34+ hematopoietic progenitor cells and provides a new mechanism to explain the mobilization of CD34+ progenitors to peripheral blood. Aiuti A, et al. **J Exp Med** 1997 Jan 6;185(1):111–20

Involvement of Interleukin (IL) 8 receptor in negative regulation of myeloid progenitor cells in vivo: evidence from mice lacking the murine IL-8 receptor homologue. Broxmeyer HE, et al. **J Exp Med** 1996 Nov 1; 184(5):1825–32

Identification of a committed T cell precursor population in adult human peripheral blood. Bruno L, et al. **J Exp Med** 1997 Mar 3;185(5):875–84

Identification of a novel developmental stage marking lineage commitment of progenitor thymocytes. Carlyle JR, et al. **J Exp Med** 1997 Jul 21;186(2):173–82

Intrinsic and extrinsic control of hemopoietic stem cell numbers: mapping of a stem cell gene. de Haan G, et al. **J Exp Med** 1997 Aug 18;186(4):529–36

Multilineage hemopoietic stem cell defects in Budd Chiari syndrome. Dayal S, et al. **J Hepatol** 1997 Feb;26(2):293–7

Pathophysiology of CML: do defects in integrin function contribute to the premature circulation and massive expansion of the BCR/ABL positive clone? Verfaillie CM, et al. **J Lab Clin Med** 1997 Jun;129(6):584–91 (52 ref.)

Monocytes from mobilized stem cells inhibit T cell function. Ino K, et al. **J Leukoc Biol** 1997 May;61(5):583–91

Distinct alterations in lineage committed progenitor cells exist in the peripheral blood of patients with rheumatoid arthritis and primary Sjogren's syndrome. Santiago-Schwarz F, et al. **J Rheumatol** 1996 Mar; 23(3):439–46

Development of basophils in Mongolian gerbils: formation of basophilic cell clusters in the bone marrow after Nippostrongylus brasiliensis infection. Okada M, et al. **Lab Invest** 1997 Jan;76(1):89–97

Characterization of a newly established human bone marrow endothelial cell line: distinct adhesive properties for hematopoietic progenitors compared with human umbilical vein endothelial cells. Schweitzer KM, et al. **Lab Invest** 1997 Jan;76(1):25–36

Concepts of hemopoietic cell amplification. Synergy, redundancy and pleiotropy of cytokines affecting the regulation of erythropoiesis. de Haan G, et al. **Leuk Lymphoma** 1996 Aug;22(5-6):385–94 (64 ref.)

Significance of quantitative analysis of AML1/ETO transcripts in peripheral blood stem cells from t(8;21) acute myelogenous leukemia. Miyamoto T, et al. **Leuk Lymphoma** 1997 Mar;25(1-2):69–75 (37 ref.)

Role of the stem cell factor (SCF) receptor and the alternative forms of its ligand (SCF) in the induction of long-term growth by stroma cells. Friel J, et al. **Leukemia** 1997 Apr;11 Suppl 3:493–5

The p53-deficient hemopoietic stem cells: their resistance to radiation-apoptosis, but lasted transiently. Hirabayashi Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:489–92

Autologous bone marrow purging by in situ IL-2 activation of endogenous killer cells. Margolin KA, et al. **Leukemia** 1997 May;11(5):723–8

Signal transduction by the GM-CSF, IL-3 and IL-5 receptors. Miyajima A, et al. **Leukemia** 1997 Apr;11 Suppl 3:418–22 (16 ref.)

Normal G-CSF-mobilized CD34+ peripheral blood stem cells in paroxysmal nocturnal hemoglobinuria: a perspective for autologous transplantation [letter] Musto P, et al. **Leukemia** 1997 Jun;11(6):890–2

Constitutive activation of Stat-related DNA-binding proteins in erythroid cells by the Friend spleen focus-forming virus. Ohashi T, et al. **Leukemia** 1997 Apr; 11 Suppl 3:251–4

Effects of homoharringtonine alone and in combination with alpha interferon and cytosine arabinoside on 'in vitro' growth and induction of apoptosis in chronic myeloid leukemia and normal hematopoietic progenitors. Visani G, et al. **Leukemia** 1997 May;11(5):624–8

A local renin-angiotensin system in the bone marrow. Haznedaroğlu IC, et al. **Med Hypotheses** 1996 Jun; 46(6):507–10

Activation of quiescent ABL-transduced hemopoietic stem cells. Chung SW, et al. **Oncogene** 1996 Dec 5; 13(11):2397–405

Absence of p53 permits propagation of mutant cells following genotoxic damage. Griffiths SD, et al. **Oncogene** 1997 Feb 6;14(5):523–31

p94fer facilitates cellular recovery of gamma irradiated pre-T cells. Halachmy S, et al. **Oncogene** 1997 Jun 19; 14(24):2871–80

Raf/MAPK and rapamycin-sensitive pathways mediate the anti-apoptotic function of p21Ras in IL-3-dependent hematopoietic cells. Kinoshita T, et al. **Oncogene** 1997 Aug 7;15(6):619–27

Effect of recombinant granulocyte colony-stimulating factor on erythropoiesis in the human fetus and neonate. Calhoun DA, et al. **Pediatr Res** 1996 Dec;40(6):872–5

Circulating megakaryocytes and their progenitors in early thrombocytopenia in preterm neonates. Murray NA, et al. **Pediatr Res** 1996 Jul;40(1):112–9

In vitro photoinhibition by psoralen and ultraviolet A radiation of human hematopoietic progenitors. Procaccini EM, et al. **Photodermatol Photoimmunol Photomed** 1996 Oct;12(5):200–3

Increased sensitivity to apoptotic stimuli in c-abl-deficient progenitor B-cell lines. Dorsch M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13131–6

Ligand-dependent development of the endothelial and hemopoietic lineages from embryonic mesodermal cells expressing vascular endothelial growth factor receptor 2. Eichmann A, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5141–6

Regulation of the myeloperoxidase enhancer binding proteins Pu1, C-EBP alpha, -beta, and -delta during granulocyte-lineage specification. Ford AM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10838–43

Thrombopoietic potential and serial repopulating ability of murine hematopoietic stem cells constitutively expressing interleukin 11. Hawley RG, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10297–302

Inhibition of granulocytic differentiation by mNotch1. Milner LA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12; 93(23):13014–9

Hematopoietic activity of a stromal cell transmembrane protein containing epidermal growth factor-like repeat motifs. Moore KA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4011–6

Hematopoiesis in the fetal liver is impaired by targeted mutagenesis of a gene encoding a non-DNA binding subunit of the transcription factor, polyomavirus enhancer binding protein 2/core binding factor. Niki M, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5697–702

Identification of genes induced by factor deprivation in hematopoietic cells undergoing apoptosis using gene-trap mutagenesis and site-specific recombination. Russ AP, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15279–84

Nitric oxide in human haematopoiesis. Ouaaz F. **Res Immunol** 1995 Nov-Dec;146(9):678–81 (34 ref.)

Hematopoietic progenitor cells. Leitman SF, et al. **Semin Hematol** 1996 Oct;33(4):341–58 (130 ref.)

Growth of human hematopoietic cells in immunodeficient mice conditioned with cyclophosphamide and busulfan. Basch RS, et al. **Stem Cells** 1997;15(4):314–23

Vav: function and regulation in hematopoietic cell signaling. Bonnefoy-Bérard N, et al. **Stem Cells** 1996 May; 14(3):250–68 (125 ref.)

Importance of parenchymal:stromal cell ratio for the ex vivo reconstitution of human hematopoiesis. Koller MR, et al. **Stem Cells** 1997;15(4):305–13

The role of HOX homeobox genes in normal and leukemic hematopoiesis. Lawrence HJ, et al. **Stem Cells** 1996 May; 14(3):281–91 (99 ref.)

Functional differences between subpopulations of mobilized peripheral blood-derived CD34+ cells expressing different levels of HLA-DR, CD33, CD38 and c-kit antigens. Sakabe H, et al. **Stem Cells** 1997;15(1):73–81

F1 hybrid resistance and self-tolerance in graft-versus-host mice. Baron C, et al. **Transplant Proc** 1996 Oct;28(5):2921–2

Blocking of the B7-CD28 pathway increases apoptosis induced in activated T cells by in vitro-generated CD95L (FasL) positive dendritic cells. Lu L, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1094–5

[The human hematopoietic stem cell biology and clinical use] Hansen NE, et al. **Ugeskr Laeger** 1997 Jun 30; 159(27):4253–6 **(Dan)**

[Hemopoietic stem cell and adhesion molecules] Kobayashi M, et al. **Rinsho Byori** 1996 Sep;Suppl 102:84–9 (18 ref.) **(Jpn)**

[Ion channels in non excitable cells] Bertrán GC, et al. **Medicina (B Aires)** 1995;55(5 Pt 1):449–56 (Eng. Abstr.) **(Spa)**

[Long-term culture: evidence of the capacity of stroma to sustain hematopoiesis of a second inoculum] López Holgado N, et al. **Sangre (Barc)** 1996 Oct;41(5):345–9 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

Population size and radiosensitivity of murine hematopoietic endogenous long-term repopulating cells. McCarthy KF. **Blood** 1997 Feb 1;89(3):834–41

BB-10010/MIP-1 alpha in vivo maintains haemopoietic recovery following repeated cycles of sublethal irradiation. Lord BI, et al. **Br J Cancer** 1996 Oct;74(7):1017–22

Delayed appearance of radiation-induced mutations at the Hprt locus in murine hemopoietic cells. Harper K, et al. **Exp Hematol** 1997 Mar;25(3):263–9

Neutron RBEs for cytopenia and repopulation of stroma and hematopoietic stem cells: mathematical models of marrow cell kinetics. Jones TD, et al. **Health Phys** 1997 Apr; 72(4):530–43

TPSg, an anti-human immunodeficiency virus (HIV-1) agent, isolated from the Cupressaceae Thuja occidentale L. (Arborvitae) enhances in vivo hemopoietic progenitor cells recovery in sublethally irradiated mice. Hassan HT, et al. **Immunol Lett** 1996 Apr;50(1-2):119–22

Limiting dilution analysis of T-cell progenitors in the bone marrow of thymic lymphoma-susceptible B10 and -resistant C3H mice after fractionated whole-body X-irradiation. Kamisaku H, et al. **Int J Radiat Biol** 1997 Aug;72(2):191–9

Effect of a maternal injection of 239Pu on the number of CFU-S in the foetal liver of the C3H and BDF1 mouse. Kubota Y, et al. **Int J Radiat Biol** 1997 Jul;72(1):71–8

Sensitivity of murine haemopoietic stem cell populations to X-rays and 1 MeV fission neutrons in vitro and in vivo under hypoxic conditions. Meijne EI, et al. **Int J Radiat Biol** 1996 Nov;70(5):571–7

Reactive oxygen species inducible by low-intensity laser irradiation alter DNA synthesis in the haemopoietic cell line U937. Callaghan GA, et al. **Lasers Surg Med** 1996; 19(2):201–6

Role of tyrosine phosphorylation in radiation-induced cell cycle-arrest of leukemic B-cell precursors at the G2-M transition checkpoint. Tuel-Ahlgren L, et al. **Leuk Lymphoma** 1996 Feb;20(5–6):417–26

Differential effects of recombinant human granulocyte colony-stimulating factor (rhG-CSF) on the radiation sensitivity of normal versus leukemic bone marrow progenitor cell populations. Waddick KG, et al. **Leuk Lymphoma** 1997 Mar;25(1–2):77–90

Predictors for optimal mobilization and subsequent engraftment of peripheral blood progenitor cells following intermediate dose cyclophosphamide and G-CSF. Morton J, et al. **Leuk Res** 1997 Jan;21(1):21–7

The p53-deficient hemopoietic stem cells: their resistance to radiation-apoptosis, but lasted transiently. Hirabayashi Y, et al. **Leukemia** 1997 Apr;11 Suppl 3:489–92

Telomerase activity during the cell cycle and in gamma-irradiated hematopoietic cells. Leteurtre F, et al. **Leukemia** 1997 Oct;11(10):1681–9

p94fer facilitates cellular recovery of gamma irradiated pre-T cells. Halachmy S, et al. **Oncogene** 1997 Jun 19; 14(24):2871–80

Radiation-induced genomic instability in haemopoietic cells: implications for radiation pathology. Wright EG. **Radiat Oncol Investig** 1997;5(3):115–8 (20 ref.)

Biodosimetry of Chernobyl cleanup workers from Estonia and Latvia using the glycophorin A in vivo somatic cell mutation assay. Bigbee WL, et al. **Radiat Res** 1997 Feb; 147(2):215–24

Effects of recombinant cytokines on colony formation by irradiated human cord blood CD34+ hematopoietic progenitor cells. Goff JP, et al. **Radiat Res** 1997 Jan; 147(1):61–9

Cumulative genetic damage in hematopoietic stem cells in a patient with a 40-year exposure to alpha particles emitted by thorium dioxide. Littlefield LG, et al. **Radiat Res** 1997 Aug;148(2):135–44

The phenomenology and possible mechanisms of a new experimental method for accelerating postirradiation restoration of hemopoietic stem cell potential. Rozhdestvensky LM, et al. **Radiat Res** 1996 Nov; 146(5):569–76

Frequency of micronuclei in the peripheral blood and bone marrow of cancer-prone mice chronically exposed to 2450 MHz radiofrequency radiation. Vijayalaxmi, et al. **Radiat Res** 1997 Apr;147(4):495–500

TRANSPLANTATION see **HEMATOPOIETIC STEM CELL TRANSPLANTATION**

ULTRASTRUCTURE

Staining and morphologic features of bone marrow hematopoietic cells in desert tortoises (Gopherus agassizii). Garner MM, et al. **Am J Vet Res** 1996 Nov;57(11):1608–15

Ultrastructural characterization of preosteoclasts derived from bone marrow progenitors stimulated by osteoclast colony stimulating factor. Lee MY, et al. **Anat Rec** 1996 Oct;246(2):176–84

Detection of trisomy 12 and Rb-deletion in CD34+ cells of patients with B-cell chronic lymphocytic leukemia. Gahn B, et al. **Blood** 1997 Jun 15;89(12):4275–81

Cytological and cytochemical study of the peripheral blood mononuclear cells in leukapheresis products mobilized with rhG-CSF [letter] Villegas A, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1199

Telomeres and telomerase in normal and malignant haematopoietic cells. Norrback KF, et al. **Eur J Cancer** 1997 Apr;33(5):774–80 (57 ref.)

Detection of mouse IL-8 receptor homologue expression on peripheral blood leukocytes and mature myeloid lineage cells in bone marrow. Wang J, et al. **J Leukoc Biol** 1996 Sep;60(3):372–81

Flow cytometry measurement of GM-CSF receptors in acute leukemic blasts, and normal hemopoietic cells. Lanza F, et al. **Leukemia** 1997 Oct;11(10):1700–10

VIROLOGY

Inhibition of human immunodeficiency virus-1 (HIV-1) replication after transduction of granulocyte colony-stimulating factor-mobilized CD34+ cells from HIV-1-infected donors using retroviral vectors containing anti-HIV-1 genes. Bauer G, et al. **Blood** 1997 Apr 1; 89(7):2259–67

Adenoviral vectors and hematopoietic cells [letter; comment] Fu SQ, et al. **Blood** 1997 Feb 15;89(4):1460–2. Comment on: Blood 1996 Jun 15;87(12):5032–9.

Direct growth suppression of myeloid bone marrow progenitor cells but not cord blood progenitors by human cytomegalovirus in vitro. Holberg-Petersen M, et al. **Blood** 1996 Oct 1;88(7):2510–6

Loss of primitive hematopoietic progenitors in patients with human immunodeficiency virus infection. Marandin A, et al. **Blood** 1996 Dec 15;88(12):4568–78

Human cytomegalovirus suppression of and latency in early hematopoietic progenitor cells. Sindre H, et al. **Blood** 1996 Dec 15;88(12):4526–33

Spread of human cytomegalovirus (HCMV) after infection of human hematopoietic progenitor cells: model of HCMV latency. Zhuravskaya T, et al. **Blood** 1997 Sep 15; 90(6):2482–91

Preclinical assessment of human hematopoietic progenitor cell transduction in long-term marrow cultures. Dubé ID, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2089–100

A rapid and quantitative assay to estimate gene transfer into retrovirally transduced hematopoietic stem/progenitor cells using a 96-well format PCR and fluorescent detection system universal for MMLV-based proviruses. Gerard CJ, et al. **Hum Gene Ther** 1996 Feb 10;7(3):343–54

Dengue virus inhibits human hematopoietic progenitor growth in vitro. Murgue B, et al. **J Infect Dis** 1997 Jun; 175(6):1497–501

Mechanism of human immunodeficiency virus type 1 localization in CD4-negative thymocytes: differentiation from a CD4-positive precursor allows productive infection. Kitchen SG, et al. **J Virol** 1997 Aug;71(8):5713–22

JC virus infection of hematopoietic progenitor cells, primary B lymphocytes, and tonsillar stromal cells: implications for viral latency. Monaco MC, et al. **J Virol** 1996 Oct; 70(10):7004–12

HIV-1-related mechanisms of suppression of CD34+ hematopoietic progenitors. Zauli G, et al. **Pathobiology** 1996;64(1):53–8

Murine leukemia virus infects early bone marrow progenitors in immunocompetent mice. Tumas-Brundage KM, et al. **Virology** 1996 Oct 15;224(2):573–5

HEMATOPOIETIC SYSTEM

ANATOMY & HISTOLOGY

Tumours of the haematopoietic system. Barthold SW. **IARC Sci Publ** 1996;(126):365–83 (74 ref.)

CYTOLOGY

[Roles of protein tyrosine kinases in activation, proliferation and apoptosis of immuno-hematopoietic cells] Minami Y, et al. **Tanpakushitsu Kakusan Koso** 1996 Sep;41(12 Suppl):1666–72 (25 ref.) **(Jpn)**

DRUG EFFECTS

High-dose carboplatin, etoposide and melphalan (CEM) with peripheral blood progenitor cell support as late intensification for high-risk cancer: non-haematological, haematological toxicities and role of growth factor administration. Benedetti Panici P, et al. **Br J Cancer** 1997; 75(8):1205–12

Hematopoietic augmentation by a beta-(1,4)-linked mannan. Egger SF, et al. **Cancer Immunol Immunother** 1996 Dec; 43(4):195–205

Recovery of the hematopoietic system by Si-Jun-Zi-Tang in whole body irradiated mice. Hsu HY, et al. **J Ethnopharmacol** 1996 Nov;54(2–3):69–75

Melatonin-induced T-helper cell hematopoietic cytokines resembling both interleukin-4 and dynorphin. Maestroni GJ, et al. **J Pineal Res** 1996 Oct;21(3):131–9

Therapeutic, toxic, and lethal concentrations in human fluids of 90 drugs affecting the cardiovascular and hematopoietic systems. Repetto MR, et al. **J Toxicol Clin Toxicol** 1997; 35(4):345–51

Melatonin and the immune-hematopoietic system therapeutic and adverse pharmacological correlates. Maestroni GJ, et al. **Neuroimmunomodulation** 1996 Nov-Dec;3(6):325–32 (66 ref.)

Structural basis for the haemotoxicity of dapsone: the importance of the sulphonyl group. Mahmud R, et al. **Toxicology** 1997 Feb 14;117(1):1–11

EMBRYOLOGY

Estimation of the number of hematopoietic precursor cells during fetal mouse development by covariance analysis. Berger CN, et al. **Blood** 1996 Oct 1;88(7):2502–9

Initiation of murine embryonic erythropoiesis: a spatial analysis. Silver L, et al. **Blood** 1997 Feb 15;89(4):1154–64

Dual action of retinoic acid on human embryonic/fetal hematopoiesis: blockade of primitive progenitor proliferation and shift from multipotent/erythroid/monocytic to granulocytic differentiation program. Tocci A, et al. **Blood** 1996 Oct 15;88(8):2878–88

Developmental change of megakaryocyte maturation and DNA ploidy in human fetus. Ma DC, et al. **Eur J Haematol** 1996 Aug;57(2):121–7

Hematopoietic stem cell emergence in embryonic life: developmental hematology revisited. Péault B. **J Hematother** 1996 Aug;5(4):369–78 (98 ref.)

IMMUNOLOGY

Differential association of phosphatases with hematopoietic co-receptors bearing immunoreceptor tyrosine-based inhibition motifs. Vély F, et al. **Eur J Immunol** 1997 Aug; 27(8):1994–2000

METABOLISM

Differential association of phosphatases with hematopoietic co-receptors bearing immunoreceptor tyrosine-based inhibition motifs. Vély F, et al. **Eur J Immunol** 1997 Aug; 27(8):1994–2000

The role of serine/threonine phosphorylation in hematopoietic cytokine receptor signal transduction. Mufson RA. **FASEB J** 1997 Jan;11(1):37–44 (56 ref.)

Stem cell antigen 2 expression in adult and developing mice. Antica M, et al. **Immunol Lett** 1997 Jan;55(1):47–51

Murine Hn1 on chromosome 11 is expressed in hemopoietic and brain tissues. Tang W, et al. **Mamm Genome** 1997 Sep; 8(9):695–6

Transgenic mice containing the human erythropoietin receptor gene exhibit correct hematopoietic and neural expression. Liu C, et al. **Proc Assoc Am Physicians** 1996 Nov;108(6):449–54

PHYSIOLOGY

The acute phase response and the hematopoietic system: the role of cytokines. Trey JE, et al. **Crit Rev Oncol Hematol** 1995 Nov;21(1–3):1–18 (175 ref.)

p210BCR/ABL, p190BCR/ABL, and TEL/ABL activate similar signal transduction pathways in hematopoietic cell lines. Okuda K, et al. **Oncogene** 1996 Sep 19;13(6):1147–52

PHYSIOPATHOLOGY

Leukaemogenesis, gene interplay, and the role of the haemopoietic environment. Lawler M. **Radiat Oncol Investig** 1997;5(3):154–7 (18 ref.)

RADIATION EFFECTS

Radioprotection of hematopoietic tissue by fibroblast growth factors in fractionated radiation experiments. Ding I, et al. **Acta Oncol** 1997;36(3):337–40

Recovery of the hematopoietic system by Si-Jun-Zi-Tang in whole body irradiated mice. Hsu HY, et al. **J Ethnopharmacol** 1996 Nov;54(2–3):69–75

Genomic instability in haematopoietic cells of F1 generation mice of irradiated male parents. Luke GA, et al. **Mutagenesis** 1997 May;12(3):147–52

[Changes in the hematopoietic system and in the concentrations of blood-regulatory cytokines after acute irradiation and a combined radiation-thermal lesion] Ul'ianova LP, et al. **Radiats Biol Radioecol** 1997 Mar-Apr; 37(2):182–8 (Eng. Abstr.) **(Rus)**

SECRETION

In vivo study of interferon-alpha-secreting cells in pig foetal lymphohaematopoietic organs following in utero TGEV coronavirus injection. Splíchal I, et al. **Res Immunol** 1997 May;148(4):247–56

VIROLOGY

In vivo replication of hamster polyomavirus DNA displays lymphotropism in hamsters susceptible to lymphoma induction. Prokoph H, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2165–72

HEMATOPOIETINS see **HEMATOPOIETIC CELL GROWTH FACTORS**

HEMATOPORPHYRIN D see **HEMATOPORPHYRIN DERIVATIVE**

HEMATOPORPHYRIN DERIVATIVE

see related
HEMATOPORPHYRIN PHOTORADIATION

ADMINISTRATION & DOSAGE

Haematoporphyrin derivative--photodynamic therapy of colorectal carcinoma, sensitized using verapamil and adriamycin. Purkiss SF, et al. **Surg Oncol** 1996 Aug; 5(4):169–75

ADVERSE EFFECTS

A comet assay of DNA damage and repair in K562 cells after photodynamic therapy using haematoporphyrin derivative, methylene blue and meso-tetrahydroxyphenylchlorin. McNair FI, et al. **Br J Cancer** 1997;75(12):1721–9

ANALYSIS

Chromatographic analysis of photodynamically significant porphyrin dimers and trimers. Owens JW, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):327–36

CHEMISTRY

31P NMR spectroscopy of photodynamically treated cells. Schunck T, et al. **Anticancer Res** 1997 Jul-Aug; 17(4A):2513–7

METABOLISM

Singlet oxygen producing photosensitizers in photophoresis. van Iperen HP, et al. **J Photochem Photobiol B** 1997 Apr; 38(2–3):203–8

PHARMACOKINETICS

Subcellular localization of Photofrin and aminolevulinic acid and photodynamic cross-resistance in vitro in radiation-induced fibrosarcoma cells sensitive or resistant

HEMATOPORPHYRIN DERIVATIVE

to photofrin-mediated photodynamic therapy. Wilson BC, et al. **Photochem Photobiol** 1997 Jan;65(1):166-76

PHARMACOLOGY

Differential response of photosensitized young and old human erythrocytes to photodynamic activation. Rollan A, et al. **Cancer Lett** 1997 Jan 1;111(1-2):207-13

The effects of electric fields on photosensitized erythrocytes: possible enhancement of photodynamic activation. Ward T, et al. **Cancer Lett** 1996 Aug 23;106(1):69-74

Influence of Photofrin on the hematopoietic accessory function of murine peritoneal cells. Hunt DW, et al. **Immunopharmacol Immunotoxicol** 1997 Aug;19(3):349-65

The mechanism of Photofrin photobleaching and its consequences for photodynamic dosimetry. Georgakoudi I, et al. **Photochem Photobiol** 1997 Jan;65(1):135-44

Production of lipid-derived free radicals in L1210 murine leukemia cells is an early oxidative event in the photodynamic action of Photofrin. Kelley EE, et al. **Photochem Photobiol** 1997 Mar;65(3):576-80

Cooperative effects of photodynamic treatment of cells in microcolonies. Dahle J, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1773-8

[In vitro comparison of the photodynamic activity of meso-tetra (m-hydroxyphenyl) chlorin and hematoporphyrin derivative] Rezzoug H, et al. **Bull Cancer** 1996 Oct;83(10):816-22 (Eng. Abstr.) **(Fre)**

THERAPEUTIC USE

Determination of the maximal tumor/normal skin ratio after HpD or m-THPC administration in hairless mouse (SKh-1) by fluorescence spectroscopy--a non-invasive method. Bossu E, et al. **Anticancer Drugs** 1997 Jan;8(1):67-72

Photodynamic treatment of subcutaneous tumors in mice with photofrin II and Argon ion laser. You JS, et al. **Chin Med J (Engl)** 1996 Jan;109(1):83-8

Photodynamic therapy for the treatment of tumor ingrowth in expandable esophageal stents. Scheider DM, et al. **Endoscopy** 1997 May;29(4):271-4

Photofrin-mediated photodynamic therapy of chemically-induced premalignant lesions and squamous cell carcinoma of the palatal mucosa in rats. Nauta JM, et al. **Int J Oral Maxillofac Surg** 1997 Jun;26(3):223-31

HEMATOPORPHYRIN PHOTORADIATION

Cytotoxic effect of photodynamic therapy with Photofrin II on intimal hyperplasia. Eton D, et al. **Ann Vasc Surg** 1996 May;10(3):273-82

Photodynamic treatment of subcutaneous tumors in mice with photofrin II and Argon ion laser. You JS, et al. **Chin Med J (Engl)** 1996 Jan;109(1):83-8

Photodynamic therapy of oral cancer. A review of basic mechanisms and clinical applications. Nauta JM, et al. **Eur J Oral Sci** 1996 Apr;104(2 (Pt 1)):69-81 (138 ref.)

Cross-resistance to photofrin-mediated photodynamic therapy and UV light and recovery from photodynamic therapy damage in Rif-8A mouse fibrosarcoma cells measured using viral capacity. DiProspero L, et al. **J Photochem Photobiol B** 1997 Apr;38(2-3):143-51

[Photodynamic laser therapy of advanced breast carcinomas] Schmidt S. **Geburtshilfe Frauenheilkd** 1996 Oct; 56(10):M153-6 **(Ger)**

[Endogenous porphyrins for photodynamic therapy of cataracts in vitro] Joussen AM, et al. **Ophthalmologe** 1997 Jun;94(6):428-35 (Eng. Abstr.) **(Ger)**

[Experiences with fluorescence diagnosis and photodynamic therapy in a multimodality therapy concept of operated, recurrent bronchial carcinoma] Freitag L, et al. **Pneumologie** 1996 Oct;50(10):693-9 (Eng. Abstr.) **(Ger)**

HISTORY

[Historical development of photodynamic therapy] Kick G, et al. **Hautarzt** 1996 Aug;47(8):644-9 (Eng. Abstr.) **(Ger)**

INSTRUMENTATION

Cooperative clinical trial of photodynamic therapy with photofrin II and excimer dye laser for early gastric cancer. Mimura S, et al. **Lasers Surg Med** 1996;19(2):168-72

Light-emitting diodes as a light source for intraoperative photodynamic therapy. Schmidt MH, et al. **Neurosurgery** 1996 Mar;38(3):552-6; discussion 556-7

METHODS

Photodynamic therapy for early stage squamous cell carcinoma of the lung [see comments] Cortese DA, et al. **Mayo Clin Proc** 1997 Jul;72(7):595-602. Comment in: Mayo Clin Proc 1997 Jul;72(7):688-90.

Photodynamic therapy for early stage central type of lung cancer [editorial; comment] Kato H. **Mayo Clin Proc** 1997 Jul;72(7):688-90. Comment on: Mayo Clin Proc 1997 Jul;72(7):595-602.

[Photodynamic therapy (PDT)] Wolf P. **Hautarzt** 1997 Feb; 48(2):137-48; quiz 148 (10 ref.) **(Ger)**

HEMATOPORPHYRINS

ANALYSIS

Correlation of subcellular and intratumoral photosensitizer localization with ultrastructural features after photodynamic therapy. Peng Q, et al. **Ultrastruct Pathol** 1996 Mar-Apr;20(2):109-129 (200 ref.)

PHARMACOKINETICS

Effects of chloroquine in hematoporphyrin-treated animals. Egger NG, et al. **Chem Biol Interact** 1996 Oct 21; 102(2):69-78

PHARMACOLOGY

Influence of a haematoporphyrin derivative on the protoporphyrin IX synthesis and photodynamic effect after 5-aminolaevulinic acid sensitization in human colon carcinoma cells. Messmann H, et al. **Br J Cancer** 1997; 76(7):878-83

Electric field-enhanced activation of hematoporphyrin derivative: effects on a human tumour cell line. Ward T, et al. **Cancer Lett** 1997 Feb 26;113(1-2):145-51

Non-iron porphyrins inhibit beta-haematin (malaria pigment) polymerisation. Basilico N, et al. **FEBS Lett** 1997 Jun 9; 409(2):297-9

Effects of Photofrin photodynamic action on mitochondrial respiration and superoxide radical generation [published erratum appears in Free Radic Res 1997 Jun;26(6):594] Salet C, et al. **Free Radic Res** 1997 Mar;26(3):201-8

THERAPEUTIC USE

In vivo intravascular laser photodynamic therapy in rabbit atherosclerotic lesions using a lateral direction fiber. Katoh T, et al. **Lasers Surg Med** 1997;20(4):373-81

Photodynamic therapy of 9L gliosarcoma with liposome-delivered photofrin. Jiang F, et al. **Photochem Photobiol** 1997 Apr;65(4):701-6

[Photodynamic therapy for early stage lung cancer] Sakai H, et al. **Nippon Rinsho** 1996 May;54(5):1332-6 (Eng. Abstr.) **(Jpn)**

HEMATOSIDE see **G(M3) GANGLIOSIDE**

HEMATOXYLIN

Bismuth hematoxylin stain for arginine residues. Roach JB Jr, et al. **Biotech Histochem** 1997 Jan;72(1):49-54

Identification of intracellular stages of Cyclospora species by light microscopy of thick sections using hematoxylin. Nhieu JT, et al. **Hum Pathol** 1996 Oct;27(10):1107-9

DIAGNOSTIC USE

The applicability of hematoxylin-eosin staining plus fluorescence or confocal laser scanning microscopy to the study of elastic fibers in cartilages. de Carvalho HF, et al. **C R Acad Sci III** 1996 Nov;319(11):991-6

PHARMACOLOGY

Inhibitors of the polymerase chain reaction in Papanicolaou stain. Removal with a simple destaining procedure. Chen JT, et al. **Acta Cytol** 1996 Sep-Oct;40(5):873-7

HEMATURIA

Case records of the Medical College of Virginia, Virginia Commonwealth University Clinicopathologic Conference. A 27-year-old man with hematuria. Edmond M, et al. **Am J Med Sci** 1997 Jan;313(1):58-63

Hematuria. Roy S 3rd. **Pediatr Ann** 1996 May;25(5):284-7 (18 ref.)

Recurrence of ANCA-associated microscopic polyangiitis after cadaveric renal transplant. Le Mao G, et al. **Transplant Proc** 1996 Oct;28(5):2803-4

[7-year-follow up (1987-1994) of a population with asymptomatic persistent microhematuria and normal renal function] Bonfante L, et al. **Minerva Med** 1996 Nov; 87(11):525-9 (Eng. Abstr.) **(Ita)**

[Hematuria] Burtsev VI, et al. **Klin Med (Mosk)** 1997; 75(6):66-9 (0 ref.) **(Rus)**

BLOOD

Diagnosis of glomerular haematuria: role of dysmorphic red cell, G1 cell and bright-field microscopy. Dinda AK, et al. **Scand J Clin Lab Invest** 1997 May;57(3):203-8

CHEMICALLY INDUCED

Djenkol beans as a cause of hematuria in children. Vachvanichsanong P, et al. **Nephron** 1997;76(1):39-42

CLASSIFICATION

[Primary and secondary glomerular diseases] Arakawa M, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):128-32 (7 ref.) **(Jpn)**

COMPLICATIONS

Hematuria-loin pain syndrome: its existence as a discrete clinicopathological entity cannot be supported. Hall R, et al. **Clin J Pain** 1997 Jun;13(2):171-7 (35 ref.)

Loin pain-hematuria syndrome associated with thin glomerular basement membrane disease and hemorrhage into renal tubules. Hebert LA, et al. **Kidney Int** 1996 Jan; 49(1):168-73

A 69-year-old woman with hemoptysis, bilateral alveolar infiltrates, and microscopic hematuria. Hasday JD, et al. **Md Med J** 1997 Aug;46(7):367-74

A child with panniculitis and microhaematuria/proteinuria--an unusual presentation of p-ANCA-positive vasculitis. Korzets Z, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):787-9

Urinary inhibitors of crystallization in hypercalciuric children with hematuria and nephrolithiasis. Perrone HC, et al. **Pediatr Nephrol** 1996 Aug;10(4):435-7

[A case of crescentic glomerulonephritis with extensive hematuria resulting in severe anemia] Kodama K, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):22-6 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Microscopic haematuria--whom to investigate [editorial] Clarkson AR. **Aust N Z J Med** 1996 Feb;26(1):7-10 (25 ref.)

Can hematuria be a predictor as well as a symptom or sign of bladder cancer? Friedman GD, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Dec;5(12):993-6

Evaluation of preserved urinary red blood cells by light microscopy [letter] Matsuyama T, et al. **Clin Nephrol** 1997 Apr;47(4):271-2

Dipstick testing of urine [letter; comment] Jones A. **Clin Radiol** 1997 Jul;52(7):566. Comment on: Clin Radiol 1996 Apr;51(4):282-4.

Office evaluation of the child with hematuria. Boineau FG, et al. **Compr Ther** 1997 Sep;23(9):583-8

The evaluation and treatment of prolonged hematuria in adolescents. Slaughenhoupt BL, et al. **J Ky Med Assoc** 1997 Aug;95(8):315-7

Long-term outcome of flexible ureterorenoscopy in the diagnosis and treatment of lateralizing essential hematuria. Nakada SY, et al. **J Urol** 1997 Mar;157(3):776-9 (10 ref.)

Fixation of urinary sediment [letter] van der Snoek BE, et al. **Lancet** 1997 Sep 27;350(9082):933-4

A method for differentiation of glomerular and nonglomerular hematuria by an automated urinary flowcytometer [letter] Hyodo T, et al. **Nephron** 1996; 73(2):348

The validity of the criteria to differentiate the origin of hematuria in the automated urinary flow cytometer [letter] Hyodo T, et al. **Nephron** 1997;75(1):112

Outpatient evaluation of hematuria: locating the source of bleeding. McCarthy JJ. **Postgrad Med** 1997 Feb; 101(2):125-8, 131 (7 ref.)

[Examination of patients with monosymptomatic dipstick hematuria. A questionnaire study in Danish departments of surgery] Flyger HL, et al. **Ugeskr Laeger** 1996 Nov 18; 158(47):6756-8 (Eng. Abstr.) **(Dan)**

[Microscopic hematuria, dipstick hematuria. Evaluation of medical technology (editorial)] Walter S. **Ugeskr Laeger** 1996 Nov 18;158(47):6743 **(Dan)**

[Use of the automatic hematologic Technicon H1 analyser to specify the character of hematuria] Kościów K. **Przegl Lek** 1995;52(12):588-9 (Eng. Abstr.) **(Pol)**

[Macroscopic hematuria. The form of presentation of Crohn's disease in childhood] Mota CR, et al. **An Esp Pediatr** 1996 May;44(5):496-8 (22 ref.) **(Spa)**

DRUG THERAPY

Role of finasteride in the treatment of recurrent hematuria secondary to benign prostatic hyperplasia. Carlin BI, et al. **Prostate** 1997 May 15;31(3):180-2

EPIDEMIOLOGY

Hematuria in pancreas-kidney transplantation. Ricart MJ, et al. **Transplant Proc** 1996 Dec;28(6):3330-1

ETIOLOGY

Transrectal color Doppler ultrasonography for postejaculation hematuria. Hong SJ, et al. **Abdom Imaging** 1996 Nov-Dec;21(6):551-3

Is the red cell morphology really useful to detect the source of hematuria? Favaro S, et al. **Am J Nephrol** 1997; 17(2):172-5

Isolated hematuria in adults: IgA nephropathy is a predominant cause of hematuria compared with thin glomerular basement membrane nephropathy. Tanaka H, et al. **Am J Nephrol** 1996;16(5):412-6

Hematuria and proteinuria as predictors of Schistosoma haematobium infection. Hammad TA, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):363-7

Frank haematuria during pregnancy due to placenta praevia percreta. Dauleh MI, et al. **Br J Urol** 1997 May;79(5):815-6

Haematuria 2 years after transurethral resection of the prostate. Meganathan V, et al. **Br J Urol** 1997 Jul;80(1):149

Haematuria and vesico-cutaneous fistula after hip surgery. Memon FR, et al. **Br J Urol** 1997 Jun;79(6):1005-6

Arteriovenous malformation of the ureter--a rare cause of haematuria. Tang CN, et al. **Br J Urol** 1997 Sep;80(3):500-1

Seminoma in an undescended testis presenting with frank haematuria. Walker R, et al. **Br J Urol** 1997 Feb;79(2):290-1

Plasma renin activity as a marker of renovascular injury in

patients with rheumatoid arthritis. Mavrikakis ME, et al. **Clin Exp Rheumatol** 1996 Nov-Dec;14(6):613-7
Sport-related hematuria: a review. Jones GR, et al. **Clin J Sport Med** 1997 Apr;7(2):119-25 (64 ref.)
A long-term follow-up study of asymptomatic hematuria and/or proteinuria in adults. Yamagata K, et al. **Clin Nephrol** 1996 May;45(5):281-8
Audit IVU referral in patients with asymptomatic microscopic haematuria [letter; comment] Hinchliffe A, et al. **Clin Radiol** 1996 Dec;51(12):893. Comment on: Clin Radiol 1996 Apr;51(4):282-4.
Imaging in haematuria [editorial] Webb JA. **Clin Radiol** 1997 Mar;52(3):167-71 (62 ref.)
Repeated macroscopic haematuria caused by intravesical migration of a preperitoneal prosthesis. Savioz D, et al. **Eur J Surg** 1997 Aug;163(8):631-2
The predictive value of microscopic haematuria in patients with lower urinary tract symptoms and benign prostatic hyperplasia. Ezz el Din K, et al. **Eur Urol** 1996;30(4):409-13
The diagnostic value of macroscopic haematuria in diagnosing urological cancers: a meta-analysis. Buntinx F, et al. **Fam Pract** 1997 Feb;14(1):63-8
Gross hematuria in a young woman with seizures and skin lesions. Accad MF, et al. **Hosp Pract (Off Ed)** 1997 May 15;32(5):204-6, 208
Hematuria: a presentation of carcinoma of the stomach. Nijhawan S, et al. **Indian J Gastroenterol** 1996 Jul;15(3):102
Haematuria: glomerular or non-glomerular? Singbal R, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):281-6
Hematuria associated with ruptured abdominal aortic aneurysms. Pomper SR, et al. **Int Surg** 1995 Jul-Sep; 80(3):261-3
Maternal urological injuries associated with vaginal deliveries: change of pattern. Kattan SA. **Int Urol Nephrol** 1997;29(2):155-61
'Raver's' haematuria. Sultana SR, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):419-20
Renal artery pseudoaneurysm: a cause of delayed hematuria in blunt trauma. Farrell TM, et al. **J Trauma** 1996 Dec; 41(6):1067-8
Nephrogenic adenoma of the urethra presenting as gross hematuria in a child. Kidd CJ, et al. **J Urol** 1997 Mar; 157(3):983
A prospective study of the natural history of idiopathic non-proteinuric hematuria. Nieuwhof C, et al. **Kidney Int** 1996 Jan;49(1):222-5
Asymptomatic urinary abnormalities. Hematuria and proteinuria. Ahmed Z, et al. **Med Clin North Am** 1997 May; 81(3):641-52 (42 ref.)
Radiology quiz #7. Transitional cell carcinoma of bladder. Francis RA. **Mo Med** 1996 Sep;93(9):567-8
Diagnostic value of dysmorphic urinary red cells [letter; comment] György AZ. **N Engl J Med** 1996 Oct 24; 335(17):1323. Comment on: N Engl J Med 1996 May 30;334(22):1440.
Spontaneous renal arteriovenous fistula as a cause of haematuria. Fogazzi GB, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):350-6 (67 ref.)
Short-term experimental hypercalciuria does not produce hematuria in normal subjects. Welch TR, et al. **Nephron** 1996;73(2):165-8
Hypoplastic tubules occurring in diffuse mesangial sclerosis [letter] Shimamura T, et al. **Pathol Int** 1996 Nov; 46(11):904-6
Outpatient evaluation of hematuria: locating the source of bleeding. McCarthy JJ. **Postgrad Med** 1997 Feb; 101(2):125-8, 131 (7 ref.)
Abdominal mass and haematuria. Hewitt PM, et al. **Postgrad Med J** 1997 Aug;73(862):517-8
Haematuria. Rockall AG, et al. **Postgrad Med J** 1997 Mar; 73(857):129-36 (35 ref.)
Role of finasteride in the treatment of recurrent hematuria secondary to benign prostatic hyperplasia. Carlin BI, et al. **Prostate** 1997 May 15;31(3):180-2
Haematuria: intravenous urography, ultrasound or both? Speelman HR, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Dec;165(6):524-8
Bladder hemangioma as a cause of massive hematuria in a child. A case report and literature review. Mor Y, et al. **Scand J Urol Nephrol** 1997 Jun;31(3):305-7
A case of gross hematuria arising during embolization for renal arteriovenous malformation. Kamai T, et al. **Urol Int** 1997;58(1):55-7
[Hematuria: current strategies] Patard JJ. **Ann Urol (Paris)** 1996;30(6-7):274-5 (Eng. Abstr.) **(Fre)**
[Renal varices. X-ray computed tomographic diagnosis and treatment by embolization] Lenoir S, et al. **J Radiol** 1997 Jan;78(1):69-72 (13 ref.) (Eng. Abstr.) **(Fre)**
[Analysis of 895 consultations for hematuria in the emergency department in an urology unit] Errando Smet C, et al. **J Urol (Paris)** 1996;102(4):168-71 (Eng. Abstr.) **(Fre)**
[Malformation of the renal venous and caudal caval system disclosed by recurrent hematuria (letter; comment)] Lenoir S, et al. **Prog Urol** 1996 Jun;6(3):459. Comment on: Prog Urol 1995 Dec;5(6):992-6. **(Fre)**
[Scurvy disclosed by hematuria and large parietal and pelvic hematomas (letter)] Boudon P, et al. **Rev Med Interne** 1997; 18(4):340-1 **(Fre)**
[A rare cause of hematuria: heterozygote sickle trait (letter)] Yeche S, et al. **Rev Med Interne** 1996;17(7):602 **(Fre)**
[Differentiation between glomerular and non-glomerular erythrocyturia: what is the value of differential microhematuria diagnosis?] Gerc V, et al. **Schweiz Rundsch Med Prax** 1997 Jul 30;86(31-32):1198-203 (28 ref.) (Eng. Abstr.) **(Fre)**
[A case from practice (357)] Heim M. **Schweiz Rundsch Med Prax** 1996 Sep 17;85(38):1185-6 **(Ger)**
[Hematuria] Blöchlinger AM, et al. **Ther Umsch** 1996 Sep; 53(9):672-5 (Eng. Abstr.) **(Ger)**
[Morbidity of transperineal echo-guided prostatic biopsy, our experience] Zambolin T, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):217-9 (6 ref.) (Eng. Abstr.) **(Ita)**
[Hematuria due to an unusual cause in an adolescent] Casini T, et al. **Pediatr Med Chir** 1996 May-Jun;18(3):321-2 (Eng. Abstr.) **(Ita)**
[Nutcracker phenomenon] Ubara Y, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):289-92 (20 ref.) **(Jpn)**
[Complications of renal oligobiopsy with regard to highly selective renal artery embolization as a method treatment--case report] Hyla-Klekot L, et al. **Przegl Lek** 1996;53(7):582-4 (Eng. Abstr.) **(Pol)**
[Chronic juvenile arthritis, hematuria and renal tuberculosis (letter)] Gómez Rodríguez N, et al. **An Med Interna** 1995 Sep;12(9):462-3 **(Spa)**
[Hematuria and pleural effusion: are they manifestations of the same entity? (letter)] Ortiz de Saracho y Bobo J, et al. **An Med Interna** 1997 Mar;14(3):154-5 **(Spa)**
[Posttraumatic hematuria associated with pelvic arteriovenous fistula] Fernández Gómez JM, et al. **Arch Esp Urol** 1997 May;50(4):400-3 (Eng. Abstr.) **(Spa)**
[A large mass at the urinary bladder level associated with a deep venous thrombosis] Stiefel García-Junco P, et al. **Rev Clin Esp** 1996 Sep;196(9):657-8 **(Spa)**

GENETICS

Identification of 17 mutations in ten exons in the COL4A5 collagen gene, but no mutations found in four exons in COL4A6: a study of 250 patients with hematuria and suspected of having Alport syndrome. Heiskari N, et al. **J Am Soc Nephrol** 1996 May;7(5):702-9
Benign familial hematuria due to mutation of the type IV collagen alpha4 gene. Lemmink HH, et al. **J Clin Invest** 1996 Sep 1;98(5):1114-8
Thin GBM nephropathy: premature glomerular obsolescence is associated with hypertension and late onset renal failure. Nieuwhof CM, et al. **Kidney Int** 1997 May;51(5):1596-601
[Myoglobinuria and familial hematuria with dominant autosomal transmission: mitochondrial disorder or basal lamina disorder?] Martin-Du Pan RC, et al. **Rev Med Suisse Romande** 1996 Sep;116(9):735-41 (40 ref.) **(Fre)**
[Benign familial hematuria (thin basement membrane disease)] Nagasawa T, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):223-6 (13 ref.) **(Jpn)**

HISTORY

The famous case of rheumatic hematuria described by Giammatteo Ferrari da Grado, professor at the University of Pavia (1432-1472). Dal Canton I, et al. **Am J Nephrol** 1997;17(3-4):282-5

IMMUNOLOGY

Allergic factors as the probable causes of erythrocyturia in children. Uścinowicz M, et al. **Rocz Akad Med Bialymst** 1995;40(3):561-7

PATHOLOGY

A 51-year-old woman with nephrotic syndrome, hematuria, and renal insufficiency. Fogo A, et al. **Am J Kidney Dis** 1997 May;29(5):806-10 (30 ref.)
Thin glomerular basement membrane disease: light microscopic and electron microscopic studies. Suh KS, et al. **J Korean Med Sci** 1997 Jun;12(3):234-9
A patient with microhematuria and proteinuria: do we still need electronmicroscopy? Mihatsch MJ, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2368-70
Evaluation of the source and count of urinary erythrocytes in healthy individuals using an automated urinary flowcytometer [letter] Hyodo T, et al. **Nephron** 1996; 73(2):349

PHYSIOPATHOLOGY

Induction of microhematuria by an IgA isotype switch variant of a monoclonal anti-Thy-1.1 antibody in the rat. van Dixhoorn MG, et al. **Kidney Int** 1996 Nov; 50(5):1612-23

PREVENTION & CONTROL

Effects of choreito consumption on urine variables of healthy cats fed a magnesium-supplemented commercial diet. Buffington CA, et al. **Am J Vet Res** 1997 Feb;58(2):146-9
Screening proteinuria and hematuria in Malaysian children. Zainal D, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):785-8
[Self-test of morning urine with urinary dipsticks for 7 consecutive days for asymptomatic microscopic hematuria] Kamoi K, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Jul; 87(7):992-6 (Eng. Abstr.) **(Jpn)**

SURGERY

Renal autotransplantation in patients with loin pain-hematuria syndrome. Karvelas JP, et al. **Can J Surg** 1996 Apr;39(2):121-5
The loin pain-hematuria syndrome. Taguchi Y. **Can J Surg** 1996 Apr;39(2):93
The evaluation and treatment of prolonged hematuria in adolescents. Slaughenhoupt BL, et al. **J Ky Med Assoc** 1997 Aug;95(8):315-7

THERAPY

Survival after embolization of the internal iliac arteries in ten patients with severe haematuria due to recurrent pelvic carcinoma [see comments] Jenkins CN, et al. **Clin Radiol** 1996 Dec;51(12):865-8. Comment in: Clin Radiol 1996 Dec;51(12):825-7.
Long-term outcome of flexible ureterorenoscopy in the diagnosis and treatment of lateralizing essential hematuria. Nakada SY, et al. **J Urol** 1997 Mar;157(3):776-9 (10 ref.)
Symptomless microhaematuria in schoolchildren: causes for variable management strategies. Benbassat J, et al. **QJM** 1996 Nov;89(11):845-54 (89 ref.)

URINE

Haematuria and urinary red blood cell morphology [letter; comment] Simpson LO. **N Z Med J** 1996 Oct 11; 109(1031):389. Comment on: N Z Med J 1996 Aug 9;109(1027):303.
The erythrocyte cast. Fogazzi GB, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1649-52
[Evaluation of urinary NMP22 (nuclear matrix protein 22) as a diagnostic marker for urothelial cancer--screening for urothelial cancer in patients with microscopic hematuria. NMP Study Group] Akaza H, et al. **Gan To Kagaku Ryoho** 1997 May;24(7):837-42 (Eng. Abstr.) **(Jpn)**

VETERINARY

Idiopathic renal hematuria in a dog; the usefulness of a method of partial occlusion of the renal artery. Mishina M, et al. **J Vet Med Sci** 1997 Apr;59(4):293-5

HEME

Probing the heme iron coordination structure of alkaline chloroperoxidase. Blanke SR, et al. **Biochemistry** 1996 Nov 19;35(46):14537-43
Probing the heme iron coordination structure of pressure-induced cytochrome P420cam. Martinis SA, et al. **Biochemistry** 1996 Nov 19;35(46):14530-6
Spectral changes of lignin peroxidase during reversible inactivation. Nie G, et al. **Biochemistry** 1997 Apr 29; 36(17):5113-9
Role of calcium in maintaining the heme environment of manganese peroxidase. Sutherland GR, et al. **Biochemistry** 1997 Mar 25;36(12):3654-62
In vivo spin trapping of nitric oxide by heme: electron paramagnetic resonance detection ex vivo. Hall DM, et al. **Methods Enzymol** 1996;268:188-92

ADMINISTRATION & DOSAGE

Delivery of oligoribonucleotides to human hepatoma cells using cationic lipid particles conjugated to ferric protoporphyrin IX (heme). Takle GB, et al. **Antisense Nucleic Acid Drug Dev** 1997 Jun;7(3):177-85

ANALOGS & DERIVATIVES

The energy dependent redox responses of heme and copper in cytochrome oxidase in rat brain in situ. Matsunaga A, et al. **Adv Exp Med Biol** 1996;388:305-10
Activity, peroxide compound formation, and heme d synthesis in Escherichia coli HPII catalase. Obinger C, et al. **Arch Biochem Biophys** 1997 Jun 1;342(1):58-67
Improvement of glucose metabolism in patients with type II diabetes after treatment with a hemodialysate. Jacob S, et al. **Arzneimittelforschung** 1996 Mar;46(3):269-72
CbiX: a novel metal-binding protein involved in sirohaem biosynthesis in Bacillus megaterium. Beck R, et al. **Biochem Soc Trans** 1997 Feb;25(1):77S
Structures of the siroheme- and Fe4S4-containing active center of sulfite reductase in different states of oxidation: heme activation via reduction-gated exogenous ligand exchange. Crane BR, et al. **Biochemistry** 1997 Oct 7; 36(40):12101-19
Resonance Raman spectroscopic characterization of alpha-hydroxyheme and verdoheme complexes of heme oxygenase. Takahashi S, et al. **Biochemistry** 1997 Feb 11; 36(6):1402-10
Photoperturbation of the heme a3-CuB binuclear center of cytochrome c oxidase CO complex observed by Fourier transform infrared spectroscopy. Park S, et al. **Biophys J** 1996 Aug;71(2):1036-47
Role of carbon monoxide in heme-induced vasodilation. Kozma F, et al. **Eur J Pharmacol** 1997 Apr 4;323(2-3):R1-2
Evidence for a crosslink between c-heme and a lysine residue in cytochrome P460 of Nitrosomonas europaea. Arciero DM, et al. **FEBS Lett** 1997 Jun 30;410(2-3):457-60

Siroheme biosynthesis in Saccharomyces cerevisiae requires the products of both the MET1 and MET8 genes. Hansen J, et al. **FEBS Lett** 1997 Jan 13;401(1):20–4

Heme C incorporation into the c-type cytochromes FixO and FixP is essential for assembly of the Bradyrhizobium japonicum cbb3-type oxidase. Zufferey R, et al. **FEBS Lett** 1997 Jul 21;412(1):75–8

Gene cluster for dissimilatory nitrite reductase (nir) from Pseudomonas aeruginosa: sequencing and identification of a locus for heme d1 biosynthesis. Kawasaki S, et al. **J Bacteriol** 1997 Jan;179(1):235–42

A role for Salmonella typhimurium cbiK in cobalamin (vitamin B12) and siroheme biosynthesis. Raux E, et al. **J Bacteriol** 1997 May;179(10):3202–12

Siroheme biosynthesis in higher plants. Analysis of an S-adenosyl-L-methionine-dependent uroporphyrinogen III methyltransferase from Arabidopsis thaliana. Leustek T, et al. **J Biol Chem** 1997 Jan 31;272(5):2744–52

Heme oxygenase-1, intermediates in verdoheme formation and the requirement for reduction equivalents. Liu Y, et al. **J Biol Chem** 1997 Mar 14;272(11):6909–17

Oxidation of the meso-methylmesoheme regioisomers by heme oxygenase. Electronic control of the reaction regiospecificity. Torpey J, et al. **J Biol Chem** 1996 Oct 18;271(42):26067–73

The 2.8 A structure of hydroxylamine oxidoreductase from a nitrifying chemoautotrophic bacterium, Nitrosomonas europaea [see comments] Igarashi N, et al. **Nat Struct Biol** 1997 Apr;4(4):276–84. Comment in: Nat Struct Biol 1997 Apr;4(4):247–50. Comment in: Nat Struct Biol 1997 Apr;4(4):262.

Isolation and characterization of a cDNA that encodes maize uroporphyrinogen III methyltransferase, an enzyme involved in the synthesis of siroheme, which is prosthetic group of nitrite reductase. Sakakibara H, et al. **Plant J** 1996 Nov;10(5):883–92

Radioprotective effects of a protein-free hemodialysate in human epidermis. Beetz A, et al. **Skin Pharmacol** 1996; 9(3):197–202

ANALYSIS

Haem O and a putative cytochrome bo in a mutant of Bacillus cereus impaired in the synthesis of haem A. Del Arenal IP, et al. **Arch Microbiol** 1997 Jan;167(1):24–31

Haem precursors and porphobilinogen deaminase in erythrocytes and lymphocytes of patients with acute intermittent porphyria. Gross U, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Feb;43(1):29–35

1H-NMR study of diamagnetic cytochrome P450cam: assignment of heme resonances and substrate dependance of one cysteinate beta proton. Mouro C, et al. **FEBS Lett** 1997 Sep 8;414(2):203–8

Elevated zinc protoporphyrin associated with thalassemia trait and hemoglobin E. Graham EA, et al. **J Pediatr** 1996 Jul;129(1):105–10

Determination of nitric oxide synthase cofactors: heme, FAD, FMN, and tetrahydrobiopterin. Klatt P, et al. **Methods Enzymol** 1996;268:358–65

Heme compounds in dinosaur trabecular bone. Schweitzer MH, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6291–6

ANTAGONISTS & INHIBITORS

Irgasan DP 300 (5-chloro-2-(2,4-dichlorophenoxy)-phenol) induces cytochrome P450s and inhibits haem biosynthesis in rat hepatocytes cultured on Matrigel. Jinno H, et al. **Xenobiotica** 1997 Jul;27(7):681–92

BIOSYNTHESIS

Importance of haem biosynthesis in the control of intestinal iron absorption. Laftah A, et al. **Biochem Soc Trans** 1997 Feb;25(1):58S

Urinary porphyrins and heme biosynthetic enzyme activities measured by HPLC in arsenic toxicity. García-Vargas GG, et al. **Biomed Chromatogr** 1996 Nov-Dec;10(6):278–84 (40 ref.)

Tissue-specific regulation of iron metabolism and heme synthesis: distinct control mechanisms in erythroid cells [see comments] Ponka P. **Blood** 1997 Jan 1;89(1):1–25 (311 ref.). Comment in: Blood 1997 Jul 1;90(1):473–4.

Comparison of delta-aminolaevulinic acid and its methyl ester as an inducer of porphyrin synthesis in cultured cells. Washbrook R, et al. **Br J Cancer** 1997;75(10):1417–20

Porphyrin biosynthesis in normal and haem mutants of Saccharomyces cerevisiae. Studies on the inheritance of the HEM R+ phenotype. De Siervi A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):167–73

Environmental chemical exposures and disturbances of heme synthesis. Daniell WE, et al. **Environ Health Perspect** 1997 Feb;105 Suppl 1:37–53 (196 ref.)

Expression of the heme biosynthetic pathway genes hemCD, hemH, hemM, and hemA of Escherichia coli. McNicholas PM, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):143–8

Abnormalities of heme biosynthesis in experimental acute renal failure. Fontanellas A, et al. **J Am Soc Nephrol** 1996 Apr;7(4):628–32

Metals control activity and expression of the heme biosynthesis enzyme delta-aminolevulinic acid dehydratase in Bradyrhizobium japonicum. Chauhan S, et al. **J Bacteriol** 1997 Sep;179(17):5516–20

Role of the hemA gene product and delta-aminolevulinic acid in regulation of Escherichia coli heme synthesis. Verderber E, et al. **J Bacteriol** 1997 Jul;179(14):4583–90

Regulation of heme biosynthesis in Salmonella typhimurium: activity of glutamyl-tRNA reductase (HemA) is greatly elevated during heme limitation by a mechanism which increases abundance of the protein. Wang LY, et al. **J Bacteriol** 1997 May;179(9):2907–14

Heme biosynthesis by the malarial parasite. Import of delta-aminolevulinate dehydrase from the host red cell. Bonday ZQ, et al. **J Biol Chem** 1997 Aug 29; 272(35):21839–46

Inhibitory effect of selenium on enzymes involved in heme biosynthetic pathway in chick embryos. Padmaja K, et al. **J Enzyme Inhib** 1996 Aug;11(1):1–11

The effect of L-cysteine and N-acetylcysteine on porphyrin/heme biosynthetic pathway in cells treated with 5-aminolevulinic acid and exposed to radiation. He D, et al. **Photodermatol Photoimmunol Photomed** 1996 Oct; 12(5):194–9

[Unusual pathways and environmentally regulated genes of bacterial heme biosynthesis] Jahn D, et al. **Naturwissenschaften** 1996 Sep;83(9):389–400 (67 ref.) (Eng. Abstr.) **(Ger)**

[Heme synthesis and its abnormality] Sassa S. **Rinsho Ketsueki** 1997 Apr;38(4):249–52 (9 ref.) **(Jpn)**

CHEMISTRY

Effect of the vinyl-globin interactions on the temperature-dependent broadening of the Soret spectra: a study with horse myoglobin and Scapharca dimeric hemoglobin reconstituted with unnatural 2,4-heme derivatives. Boffi A, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):43–51

Evidence for heme-heme excitonic coupling in the Soret circular dichroism of hemoglobin. Goldbeck RA, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):610–4

Spectroscopic effects of polarity and hydration in the distal heme pocket of deoxymyoglobin. Christian JF, et al. **Biochemistry** 1997 Sep 16;36(37):11198–204

Electron transfer across the O2- generating flavocytochrome b of neutrophils. Evidence for a transition from a low-spin state to a high-spin state of the heme iron component. Doussière J, et al. **Biochemistry** 1996 Oct 15; 35(41):13400–10

Isolation and characterization of vibrational spectra of individual heme active sites in cytochrome bc1 complexes from Rhodobacter capsulatus. Gao F, et al. **Biochemistry** 1996 Oct 1;35(39):12812–9

Structural characterization of Paracoccus denitrificans cytochrome c peroxidase and assignment of the low and high potential heme sites. Hu W, et al. **Biochemistry** 1997 Jul 1;36(26):7958–66

Role of the heme propionates in the interaction of heme with apomyoglobin and apocytochrome b5. Hunter CL, et al. **Biochemistry** 1997 Feb 4;36(5):1010–7

Dissociation of heme from myoglobin and cytochrome b5: comparison of behavior in solution and the gas phase. Hunter CL, et al. **Biochemistry** 1997 Feb 4;36(5):1018–25

Role of the polarity of the heme environment for the CO stretch modes in cytochrome P-450cam-CO. Jung C, et al. **Biochemistry** 1996 Nov 26;35(47):15088–94

Electron transfer in tetrahemic cytochromes c3: spectroelectrochemical evidence for a conformational change triggered by heme IV reduction. Kazanskaya I, et al. **Biochemistry** 1996 Oct 15;35(41):13411–8

Tetrahydrobiopterin binding to macrophage inducible nitric oxide synthase: heme spin shift and dimer stabilization by the potent pterin antagonist 4-amino-tetrahydrobiopterin. Mayer B, et al. **Biochemistry** 1997 Jul 8;36(27):8422–7

Comparative Fourier transform infrared studies of the secondary structure and the CO heme ligand environment in cytochrome P-450cam and cytochrome P-420cam. Mouro C, et al. **Biochemistry** 1997 Jul 1;36(26):8125–34

13C NMR spectroscopic and X-ray crystallographic study of the role played by mitochondrial cytochrome b5 heme propionates in the electrostatic binding to cytochrome c. Rodríguez-Marañón MJ, et al. **Biochemistry** 1996 Dec 17; 35(50):16378–90

Interactions between substrate analogues and heme ligands in nitric oxide synthase. Wang J, et al. **Biochemistry** 1997 Apr 15;36(15):4595–606

Substitutions at position 146 of cytochrome b affect drastically the properties of heme bL and the Qo site of Rhodobacter capsulatus cytochrome bc1 complex. Saribaş AS, et al. **Biochim Biophys Acta** 1997 Mar 28; 1319(1):99–108

Proton-NMR investigation of the heme cavity in the cyanomet derivative of the cooperative homodimeric hemoglobin from Scapharca inaequivalvis. Wu Y, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):261–75

Probing pH and pressure effects on the apomyoglobin heme pocket with the 2'-(N,N-dimethylamino)-6-naphthoyl-4-trans-cyclohexanoic acid fluorophore. Sire O, et al. **Biophys J** 1996 Jun;70(6):2903–14

Hydrogen peroxide decomposes the heme compound in forensic specimens and improves the efficiency of PCR. Akane A. **Biotechniques** 1996 Sep;21(3):392–4

Molecular modelling study of the binding of inhibitors of aromatase to the cytochrome P-450 heme. Ahmed S, et al. **Drug Des Discov** 1996 Oct;14(2):91–102

Membrane-bound c-type cytochromes in Heliobacillus mobilis. Characterisation by EPR and optical spectroscopy in membranes and detergent-solubilised material. Nitschke W, et al. **Eur J Biochem** 1996 Dec 15;242(3):695–702

NMR studies of cooperativity in the tetrahaem cytochrome c3 from Desulfovibrio vulgaris. Turner DL, et al. **Eur J Biochem** 1996 Nov 1;241(3):723–31

Mutagenesis of residues 27 and 78 modulates heme orientation in cytochrome b5. Mortuza GB, et al. **FEBS Lett** 1997 Aug 4;412(3):610–4

Redox cycling of human methaemoglobin by H2O2 yields persistent ferryl iron and protein based radicals. Patel RP, et al. **Free Radic Res** 1996 Aug;25(2):117–23

On the origin of heme absorption band shifts and associated protein structural relaxation in myoglobin following flash photolysis. Franzen S, et al. **J Biol Chem** 1997 Apr 11; 272(15):9655–60

Electron transfer between the FMN and heme domains of cytochrome P450BM-3. Effects of substrate and CO. Hazzard JT, et al. **J Biol Chem** 1997 Mar 21;272(12):7922–6

Existence of two heme B centers in cytochrome b561 from bovine adrenal chromaffin vesicles as revealed by a new purification procedure and EPR spectroscopy. Tsubaki M, et al. **J Biol Chem** 1997 Sep 12;272(37):23206–10

Solution of 1H NMR structure of the heme cavity in the oxygen-avid myoglobin from the trematode Paramphistomum epiclitum. Zhang W, et al. **J Biol Chem** 1997 Jan 31;272(5):3000–6

Assembly of the gigantic hemoglobin of the earthworm Lumbricus terrestris. Roles of subunit equilibria, non-globin linker chains, and valence of the heme iron. Zhu H, et al. **J Biol Chem** 1996 Nov 22;271(47):30007–21

Stoichiometry of subunits and heme content of hemoglobin from the earthworm Lumbricus terrestris. Zhu H, et al. **J Biol Chem** 1996 Nov 22;271(47):29999–30006

Heme stability in the human embryonic hemoglobins. Robson N, et al. **J Inorg Biochem** 1996 Nov 15;64(3):137–47

Triangular kinetic schemes applied to the stability of a heme-globin complex. Stephanos JJ, et al. **J Inorg Biochem** 1997 May 1;66(2):83–98

An alternative model for haem ligation in nitrate reductase and analogous respiratory cytochrome b complexes [letter] van der Oost J, et al. **Mol Microbiol** 1996 Oct;22(1):193–6

Ferredoxin and ferredoxin-heme maquettes. Gibney BR, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15041–6

Probing the structure of the linker connecting the reductase and heme domains of cytochrome P450BM-3 using site-directed mutagenesis. Govindaraj S, et al. **Protein Sci** 1996 Jul;5(7):1389–93

The heme redox center of chloroplast cytochrome f is linked to a buried five-water chain. Martinez SE, et al. **Protein Sci** 1996 Jun;5(6):1081–92

[Long-range electron transfer in globular proteins by polaron excitation] Lakhno VL, et al. **Biofizika** 1997 Mar-Apr; 42(2):313–9 (Eng. Abstr.) **(Rus)**

GENETICS

Porphyrin biosynthesis in normal and haem mutants of Saccharomyces cerevisiae. Studies on the inheritance of the HEM R+ phenotype. De Siervi A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):167–73

Mutagenesis of residues 27 and 78 modulates heme orientation in cytochrome b5. Mortuza GB, et al. **FEBS Lett** 1997 Aug 4;412(3):610–4

Expression of the heme biosynthetic pathway genes hemCD, hemH, hemM, and hemA of Escherichia coli. McNicholas PM, et al. **FEMS Microbiol Lett** 1997 Jan 1;146(1):143–8

Hb J-Europa [beta 62(E6)Ala-->Asp]: normal oxygen binding properties in a new variant involving a residue located distal to the heme. Kiger L, et al. **Hemoglobin** 1996 May;20(2):135–40

Transcriptional regulation of delta-aminolevulinic acid dehydratase synthesis by oxygen in Bradyrhizobium japonicum and evidence for developmental control of the hemB gene. Chauhan S, et al. **J Bacteriol** 1997 Jun; 179(11):3706–10

A single mutation in the heme 4 environment of Desulfovibrio desulfuricans Norway cytochrome c3 (Mr 26,000) greatly affects the molecule reactivity. Aubert C, et al. **J Biol Chem** 1997 Jun 13;272(24):15128–34

METABOLISM

Effect of nitric oxide on heme metabolism in pulmonary artery endothelial cells. Yee EL, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L512–8

The unique heme-heme interactions of the homodimeric Scapharca inaequivalvis hemoglobin as probed in the protein reconstituted with unnatural 2,4 heme derivatives. Zamparelli C, et al. **Arch Biochem Biophys** 1997 Mar 15; 339(2):275–82

Cysteine-200 of human inducible nitric oxide synthase is essential for dimerization of haem domains and for binding of haem, nitroarginine and tetrahydrobiopterin. Cubberley RR, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):141–6

Characterization of bovine endothelial nitric oxide synthase as a homodimer with down-regulated uncoupled NADPH oxidase activity: tetrahydrobiopterin binding kinetics and role of haem in dimerization. List BM, et al. **Biochem J** 1997 Apr 1;323 (Pt 1):159–65

Effect of thiol reagents on functional properties and heme

oxidation in the hemoglobin of Geochelone carbonaria. Torsoni MA, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):355–64

New physiological importance of two classic residual products: carbon monoxide and bilirubin. Marilena G. **Biochem Mol Med** 1997 Aug;61(2):136–42 (43 ref.)

1,2,3–Thiadiazole: a novel heterocyclic heme ligand for the design of cytochrome P450 inhibitors. Babu BR, et al. **Biochemistry** 1997 Jun 10;36(23):7209–16

Bis–methionine ligation to heme iron in mutants of cytochrome b562. 1. Spectroscopic and electrochemical characterization of the electronic properties. Barker PD, et al. **Biochemistry** 1996 Oct 22;35(42):13618–26

Bis–methionine ligation to heme iron in mutants of cytochrome b562. 2. Characterization by NMR of heme–ligand interactions. Barker PD, et al. **Biochemistry** 1996 Oct 22;35(42):13627–35

Role of the heme propionates in the interaction of heme with apomyoglobin and apocytochrome b5. Hunter CL, et al. **Biochemistry** 1997 Feb 4;36(5):1010–7

Dissociation of heme from myoglobin and cytochrome b5: comparison of behavior in solution and the gas phase. Hunter CL, et al. **Biochemistry** 1997 Feb 4;36(5):1018–25

Purification and characterization of an extracellular heme–binding protein, HasA, involved in heme iron acquisition. Izadi N, et al. **Biochemistry** 1997 Jun 10; 36(23):7050–7

Kinetics of nitric oxide dissociation from five– and six–coordinate nitrosyl hemes and heme proteins, including soluble guanylate cyclase. Kharitonov VG, et al. **Biochemistry** 1997 Jun 3;36(22):6814–8

Oxidation of low–density lipoprotein by hemoglobin stems from a heme–initiated globin radical: antioxidant role of haptoglobin. Miller YI, et al. **Biochemistry** 1997 Oct 7; 36(40):12189–98

Notomastus lobatus chloroperoxidase and Amphitrite ornata dehaloperoxidase both contain histidine as their proximal heme iron ligand. Roach MP, et al. **Biochemistry** 1997 Feb 25;36(8):2197–202

Absorption spectral studies on heme ligand interactions of P–450nor. Imai Y, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):66–74

Heme–CO binding to tryptophan–containing calmodulin mutants. Leclerc L'Hostis E, et al. **Biochim Biophys Acta** 1996 Oct 11;1313(3):209–16

A myoglobin variant with a polar substitution in a conserved hydrophobic cluster in the heme binding pocket. Maurus R, et al. **Biochim Biophys Acta** 1997 Aug 15;1341(1):1–13

Requirement of heme to replace the sparking sterol function in the yeast Saccharomyces cerevisiae. Smith SJ, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):71–6

Hypoxia triggers neuroprotective alterations in hippocampal gene expression via a heme–containing sensor. Gage AT, et al. **Brain Res** 1996 May 6;719(1–2):172–8

Metabolic changes in the heme pathway driven by cyclophosphamide treatment in mice. Casas A, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Feb;43(1):95–101

Translational control of erythroid delta–aminolevulinate synthase in immature human erythroid cells by heme. Smith SJ, et al. **Cell Mol Biol (Noisy–le–grand)** 1997 Feb; 43(1):103–14

Nonsteric factors dominate binding of nitric oxide, azide, imidazole, cyanide, and fluoride to the rhizobial heme–based oxygen sensor FixL. Winkler WC, et al. **Chem Biol** 1996 Oct;3(10):841–50

Heme regulates SOD2 transcription by activation and repression in Saccharomyces cerevisiae. Pinkham JL, et al. **Curr Genet** 1997 Apr;31(4):281–91

A functional heme–binding site of soluble guanylyl cyclase requires intact N–termini of alpha 1 and beta 1 subunits. Foerster J, et al. **Eur J Biochem** 1996 Sep 1;240(2):380–6

The role of the 90–kDa heat–shock protein and its associated cohorts in stabilizing the heme–regulated eIF–2alpha kinase in reticulocyte lysates during heat stress. Xu Z, et al. **Eur J Biochem** 1997 Jun 1;246(2):461–70

Haemopexin and uptake of haem by liver cells [letter] Bonkovsky HL, et al. **Eur J Clin Chem Clin Biochem** 1996 Nov;34(11):931–2

In heme catabolism C2 and C4 vinyl groups reduction of cobalt protoporphyrin forms cobalt mesoporphyrin and alters the nature of action of the metalloporphyrin in vivo. Chandra R, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jul–Sep;21(3):269–74

Artificial peroxidase–like hemoproteins based on antibodies constructed from a specifically designed ortho–carboxy substituted tetraarylporphyrin hapten and exhibiting a high affinity for iron–porphyrins. Quilez R, et al. **FEBS Lett** 1996 Oct 14;395(1):73–6

Bound water in the proton translocation mechanism of the haem–copper oxidases. Riistama S, et al. **FEBS Lett** 1997 Sep 8;414(2):275–80

Artemisinin enhances heme–catalysed oxidation of lipid membranes. Berman PA, et al. **Free Radic Biol Med** 1997; 22(7):1283–8

Covalent crosslinking of the heme prosthetic group to myoglobin by H2O2: toxicological implications. Osawa Y, et al. **Free Radic Biol Med** 1996;21(1):35–41

Strain and sex differences in the effect of enflurane and isoflurane on heme metabolism in mice. Buzaleh AM, et al. **Gen Pharmacol** 1996 Sep;27(6):1009–12

Effect of chronic anesthesia on the drug–metabolizing enzyme system and heme pathway regulation. Buzaleh AM, et al. **Gen Pharmacol** 1997 Apr;28(4):577–82

Griseofulvin–induced hepatopathy due to abnormalities in heme pathway. Polo CF, et al. **Gen Pharmacol** 1997 Aug; 29(2):207–10

Heme compounds as iron sources for nonpathogenic Rhizobium bacteria. Noya F, et al. **J Bacteriol** 1997 May; 179(9):3076–8

Utilization of host iron sources by Corynebacterium diphtheriae: identification of a gene whose product is homologous to eukaryotic heme oxygenases and is required for acquisition of iron from heme and hemoglobin. Schmitt MP. **J Bacteriol** 1997 Feb;179(3):838–45

Evaluation of peroxisomal heme in yeast. Soga O, et al. **J Biochem (Tokyo)** 1997 Jan;121(1):25–8

Characterization of an upstream activation sequence and two Rox1p–responsive sites controlling the induction of the yeast HEM13 gene by oxygen and heme deficiency. Amillet JM, et al. **J Biol Chem** 1996 Oct 4;271(40):24425–32

Spatial relationship between L–arginine and heme binding sites of endothelial nitric–oxide synthase. Berka V, et al. **J Biol Chem** 1996 Dec 27;271(52):33293–300

Characterization of the products of the heme detoxification pathway in malarial late trophozoites by X–ray diffraction. Bohle DS, et al. **J Biol Chem** 1997 Jan 10;272(2):713–6

Redox properties of cytochrome c nitrite reductase from Desulfovibrio desulfuricans ATCC 27774. Costa C, et al. **J Biol Chem** 1996 Sep 20;271(38):23191–6

Autocatalytic processing of heme by lactoperoxidase produces the native protein–bound prosthetic group. DePillis GD, et al. **J Biol Chem** 1997 Apr 4;272(14):8857–60

Intramembrane bis–heme motif for transmembrane electron transport conserved in a yeast iron reductase and the human NADPH oxidase. Finegold AA, et al. **J Biol Chem** 1996 Dec 6;271(49):31021–4

Nitric oxide prevents oxidative damage produced by tert–butyl hydroperoxide in erythroleukemia cells via nitrosylation of heme and non–heme iron. Electron paramagnetic resonance evidence. Gorbunov NV, et al. **J Biol Chem** 1997 May 9;272(19):12328–41

Secobarbital–mediated inactivation of cytochrome P450 2B1 and its active site mutants. Partitioning between heme and protein alkylation and epoxidation. He K, et al. **J Biol Chem** 1996 Oct 18;271(42):25864–72

Heme oxygenase–2 is a hemoprotein and binds heme through heme regulatory motifs that are not involved in heme catalysis. McCoubrey WK Jr, et al. **J Biol Chem** 1997 May 9;272(19):12568–74

Heme binding to a conserved Cys–Pro–Val motif is crucial for the catalytic function of mitochondrial heme lyases. Steiner H, et al. **J Biol Chem** 1996 Dec 20;271(51):32605–11

A 65–kDa protein mediates the positive role of heme in regulating the transcription of CYP2B1/B2 gene in rat liver. Sultana S, et al. **J Biol Chem** 1997 Apr 4; 272(14):8895–900

Comparison of peroxidase reaction mechanisms of prostaglandin H synthase–1 containing heme and mangano protoporphyrin IX. Tsai Al, et al. **J Biol Chem** 1997 Apr 4;272(14):8885–94

Triangular kinetic schemes applied to the stability of a heme–globin complex. Stephanos JJ, et al. **J Inorg Biochem** 1997 May 1;66(2):83–98

Correlation of antimalarial activity of artemisinin derivatives with binding affinity with ferroprotoporphyrin IX. Paitayatat S, et al. **J Med Chem** 1997 Feb 28;40(5):633–8

The regulation of heme turnover and carbon monoxide biosynthesis in cultured primary rat olfactory receptor neurons. Ingi T, et al. **J Neurosci** 1996 Sep 15;16(18):5621–8

Heme binding by a bacterial repressor protein, the gene product of the ferric uptake regulation (fur) gene of Escherichia coli. Smith A, et al. **J Protein Chem** 1996 Aug; 15(6):575–83

Erythropoietin gene regulation depends on heme–dependent oxygen sensing and assembly of interacting transcription factors. Huang LE, et al. **Kidney Int** 1997 Feb;51(2):548–52 (34 ref.)

The Paracoccus denitrificans ccmA, B and C genes: cloning and sequencing, and analysis of the potential of their products to form a haem or apo– c–type cytochrome transporter. Page MD, et al. **Microbiology** 1997 Feb;143 (Pt 2):563–76

Quelling the red menace: haem capture by bacteria [see comments] Lee BC. **Mol Microbiol** 1995 Nov;18(3):383–90 (82 ref.). Comment in: Mol Microbiol 1996 Apr;20(1):238.

Haem iron–transport system in enterohaemorrhagic Escherichia coli O157:H7. Torres AG, et al. **Mol Microbiol** 1997 Feb;23(4):825–33

Haem–ligand switching during catalysis in crystals of a nitrogen–cycle enzyme. Williams PA, et al. **Nature** 1997 Sep 25;389(6649):406–12

Ferredoxin and ferredoxin–heme maquettes. Gibney BR, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15041–6

Dose–related increase in liver heme catabolism during rabbit aflatoxicosis. Guerre P, et al. **Toxicol Lett** 1997 Jul 21; 92(2):101–8

Haemozoin formation in malaria parasites: is there a haem polymerase? Ridley RG. **Trends Microbiol** 1996 Jul; 4(7):253–4

Liver haem metabolism in adjuvant–induced arthritic rats. Toda A, et al. **Xenobiotica** 1996 Apr;26(4):415–23

PHARMACOLOGY

Supplementation of a cereal–milk formula with haem iron palliates the adverse effects of iron deficiency on calcium and magnesium metabolism in rats. Pallarés I, et al. **Ann Nutr Metab** 1996;40(2):81–90

Ferriheme and ferroheme are isosteric inhibitors of fatty acid binding to rat liver fatty acid binding protein. Stewart JM, et al. **Biochem Cell Biol** 1996;74(2):249–55

Heme from Alzheimer's brain inhibits muscarinic receptor binding via thiyl radical generation. Venters HD Jr, et al. **Brain Res** 1997 Aug 1;764(1–2):93–100

Effect of heme and vacuole deficiency on FRE1 gene expression and ferrireductase activity in Saccharomyces cerevisiae. Amillet JM, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):25–9

Hsp90 is obligatory for the heme–regulated eIF–2alpha kinase to acquire and maintain an activable conformation. Uma S, et al. **J Biol Chem** 1997 Apr 25;272(17):11648–56

Inhibition of hemozoin formation in Plasmodium falciparum trophozoite extracts by heme analogs: possible implication in the resistance to malaria conferred by the beta–thalassemia trait. Martiney JA, et al. **Mol Med** 1996 Mar;2(2):236–46

Inhibition of human immunodeficiency virus–1 reverse transcriptase by heme and synthetic heme analogs. Staudinger R, et al. **Proc Assoc Am Physicians** 1996 Jan; 108(1):47–54

PHYSIOLOGY

Cytochrome P450 and its interactions with the heme biosynthetic pathway. De Matteis F, et al. **Can J Physiol Pharmacol** 1996 Jan;74(1):1–8 (59 ref.)

Hepatic 5–aminolevulinic acid synthase mRNA stability is modulated by inhibitors of heme biosynthesis and by metalloporphyrins. Cable EE, et al. **Eur J Biochem** 1996 Aug 15;240(1):112–7

Role of heme–hemopexin in human T–lymphocyte proliferation. Smith A, et al. **Exp Cell Res** 1997 May 1; 232(2):246–54

The role of heme in gene expression. Sassa S, et al. **Int J Hematol** 1996 Apr;63(3):167–78 (71 ref.)

Effects of starvation for heme on the synthesis of porphyrins in Escherichia coli. Nakayashiki T, et al. **Mol Gen Genet** 1997 Jul;255(4):376–81

Role of heme in cytochrome P450 transcription and function in mice treated with lead acetate. Jover R, et al. **Mol Pharmacol** 1996 Sep;50(3):474–81

HEME OXYGENASE

ANALYSIS

Expression of heme oxygenase–2 (HO–2)–like immunoreactivity in rat tissues. Grozdanovic Z, et al. **Acta Histochem** 1996 Apr;98(2):203–14

Carbon monoxide–induced relaxation and distribution of haem oxygenase isoenzymes in the pig urethra and lower oesophagogastric junction. Werkström V, et al. **Br J Pharmacol** 1997 Jan;120(2):312–8

Heme oxygenase–2 in primary afferent neurons of the guinea–pig. Vollerthun R, et al. **Histochem Cell Biol** 1996 Jun;105(6):453–8

Quantitative measurement of heme oxygenase–1 in the human renal adenocarcinoma. Goodman AI, et al. **J Cell Biochem** 1996 Dec 1;63(3):342–8

Hypoxia–ischemia, but not hypoxia alone, induces the expression of heme oxygenase–1 (HSP32) in newborn rat brain. Bergeron M, et al. **J Cereb Blood Flow Metab** 1997 Jun;17(6):647–58

Heme metabolism in promastigotes of Leishmania donovani. Srivastava P, et al. **Mol Cell Biochem** 1997 Jun; 171(1–2):65–8

Heme oxygenase–2 and nitric oxide synthase in guinea–pig intracardiac neurones. Hassall CJ, et al. **Neuroreport** 1997 Mar 3;8(4):1043–6

Immunocytochemical localization of heme oxygenase–2 in the rat cerebellum. Yamanaka M, et al. **Neurosci Res** 1996 Mar;24(4):403–7

ANTAGONISTS & INHIBITORS

Characterization of porphyrin heme oxygenase inhibitors. Vreman HJ, et al. **Can J Physiol Pharmacol** 1996 Mar; 74(3):278–85

Zinc porphyrins: potent inhibitors of hematopoieses in animal and human bone marrow. Lutton JD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1432–6

Pitfalls using metalloporphyrins in carbon monoxide research. Grundemar L, et al. **Trends Pharmacol Sci** 1997 Jun;18(6):193–5 (35 ref.)

Interpreting zinc protoporphyrin values. Pierce T. **Vet Hum Toxicol** 1996 Feb;38(1):43

BIOSYNTHESIS

Evidence for a functional link between stress response and vascular control in hepatic portal circulation. Bauer M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G929–35

cAMP induces heme oxygenase–1 gene expression and carbon monoxide production in vascular smooth muscle. Durante W, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H317–23

Expression of oxidative stress–responsive genes and cytokine genes during caerulein–induced acute pancreatitis. Fu K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):G696–705

Relationship between oxidative stress and heme oxygenase induction by copper sulfate. Ossola JO, et al. **Arch Biochem Biophys** 1997 Jan 15;337(2):332–7

Heme oxygenase induction with attenuation of experimentally induced corneal inflammation. Laniado-Schwartzman M, et al. **Biochem Pharmacol** 1997 Apr 25;53(8):1069–75

Regulation of heme oxygenase-2 by glucocorticoids in neonatal rat brain: characterization of a functional glucocorticoid response element. Raju VS, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):89–104

Induction of heme oxygenase-1 (HO-1) in glia after traumatic brain injury. Fukuda K, et al. **Brain Res** 1996 Oct 14; 736(1–2):68–75

Heme-oxygenase-1 induction in glia throughout rat brain following experimental subarachnoid hemorrhage. Matz P, et al. **Brain Res** 1996 Mar 25;713(1–2):211–22

Transient induction of heme oxygenase after cortical stab wound injury. Dwyer BE, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):251–9

Induction of hepatic heme oxygenase-1 and ferritin in rats by cancer chemopreventive dithiolethiones. Primiano T, et al. **Carcinogenesis** 1996 Nov;17(11):2291–6

Angiotensin II-induced hypertension increases heme oxygenase-1 expression in rat aorta. Ishizaka N, et al. **Circulation** 1997 Sep 16;96(6):1923–9

Isolation and characterization of a cDNA from the rat brain that encodes hemoprotein heme oxygenase-3. McCoubrey WK Jr, et al. **Eur J Biochem** 1997 Jul 15;247(2):725–32

Long-term induction of haem oxygenase-1 (HSP-32) in astrocytes and microglia following transient focal brain ischaemia in the rat. Koistinaho J, et al. **Eur J Neurosci** 1996 Nov;8(11):2265–72

Expression of stress proteins heme oxygenase-1 and -2 in acute pancreatitis and pancreatic islet betaTC3 and acinar AR42J cells. Sato H, et al. **FEBS Lett** 1997 Mar 24; 405(2):219–23

Thiol compounds interact with nitric oxide in regulating heme oxygenase-1 induction in endothelial cells. Involvement of superoxide and peroxynitrite anions. Foresti R, et al. **J Biol Chem** 1997 Jul 18;272(29):18411–7

Glomerular inflammation induces resistance to tubular injury in the rat. A novel form of acquired, heme oxygenase-dependent resistance to renal injury. Vogt BA, et al. **J Clin Invest** 1996 Nov 1;98(9):2139–45

Hemodynamic forces induce the expression of heme oxygenase in cultured vascular smooth muscle cells. Wagner CT, et al. **J Clin Invest** 1997 Aug 1;100(3):589–96

Induction of the haem oxygenase gene expression during the reperfusion of ischemic rat myocardium. Maulik N, et al. **J Mol Cell Cardiol** 1996 Jun;28(6):1261–70

Induction of hepatic heme oxygenase and changes in cytochrome P-450s in response to oxidative stress produced by stilbenes and stilbene oxides in rats. Oguro T, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1455–62

Mechanism of induction of heme oxygenase by metalloporphyrins in primary chick embryo liver cells: evidence against a stress-mediated response. Cable EE, et al. **Mol Cell Biochem** 1997 Apr;169(1–2):13–20

Permanent focal and transient global cerebral ischemia increase glial and neuronal expression of heme oxygenase-1, but not heme oxygenase-2, protein in rat brain. Geddes JW, et al. **Neurosci Lett** 1996 Jun 7; 210(3):205–8

Hyperoxic regulation of lung heme oxygenase in neonatal rats. Dennery PA, et al. **Pediatr Res** 1996 Dec;40(6):815–21

Hepatic heme oxygenase is inducible in neonatal rats during the early postnatal period. Tom DJ, et al. **Pediatr Res** 1996 Aug;40(2):288–93

Low dose X-ray irradiation induces stress proteins but does not prevent gastric mucosal lesion. Sato EF, et al. **Physiol Chem Phys Med NMR** 1996;28(2):103–9

Overexpression of heme oxygenase-1 in human pulmonary epithelial cells results in cell growth arrest and increased resistance to hyperoxia. Lee PJ, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10393–8

[Organ specific expression pattern of a carbon monoxide generating stress protein (hemoxygenase-1/heatshock protein 32) following hemorrhagic shock] Bauer M, et al. **Anaesthesist** 1997 Apr;46(4):339–42 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Resonance Raman spectroscopic characterization of alpha-hydroxyheme and verdoheme complexes of heme oxygenase. Takahashi S, et al. **Biochemistry** 1997 Feb 11; 36(6):1402–10

DRUG EFFECTS

Synergistic effect of retinoic acid on Sn-PP mediated suppression of heme oxygenase activity in vivo in rats. Chandra R, et al. **J Inorg Biochem** 1997 May 15;66(3):153–8

GENETICS

Induction of heme oxygenase-1 (HSP32) mRNA in skeletal muscle following contractions. Essig DA, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):C59–67

Effect of nitric oxide on heme metabolism in pulmonary artery endothelial cells. Yee EL, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L512–8

Increases in the mRNA levels of gamma-glutamyltransferase and heme oxygenase-1 in the rat lung after ozone exposure. Takahashi Y, et al. **Biochem Pharmacol** 1997 Apr 4; 53(7):1061–4

Regulation of expression of the human heme oxygenase-1 gene in transfected chick embryo liver cell cultures. Lu TH, et al. **Biochim Biophys Acta** 1997 Jun 26; 1352(3):293–302

Corticosterone promotes increased heme oxygenase-2 protein and transcript expression in the newborn rat brain. Maines MD, et al. **Brain Res** 1996 May 25;722(1–2):83–94

Diminished heme oxygenase-1 mRNA expression in RPE cells from diabetic donors as quantitated by competitive RT/PCR. da Silva JL, et al. **Curr Eye Res** 1997 Apr; 16(4):380–6

Assignment of the mouse heme oxygenase genes: heme oxygenase-1 (Hmox1) to chromosome 10 band C1 and heme oxygenase-2 (Hmox2) to chromosome 16 band B1. Saito-Ohara F, et al. **Cytogenet Cell Genet** 1997; 77(3–4):180–1

Isolation and characterization of a cDNA from the rat brain that encodes hemoprotein heme oxygenase-3. McCoubrey WK Jr, et al. **Eur J Biochem** 1997 Jul 15;247(2):725–32

Lipid metabolite involvement in the activation of the human heme oxygenase-1 gene. Basu-Modak S, et al. **Free Radic Biol Med** 1996;20(7):887–97

Microsatellite polymorphism in the human heme oxygenase-1 gene promoter and its application in association studies with Alzheimer and Parkinson disease. Kimpara T, et al. **Hum Genet** 1997 Jul;100(1):145–7

Concomitant transcriptional activation of nitric oxide synthase and heme oxygenase genes during nitric oxide-mediated macrophage cytostasis. Kurata S, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):49–52

Cloning and sequencing of mouse complementary DNA for heme oxygenase-2. Matsumoto M, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1079–81

Hypoxia-inducible factor-1 mediates transcriptional activation of the heme oxygenase-1 gene in response to hypoxia. Lee PJ, et al. **J Biol Chem** 1997 Feb 28; 272(9):5375–81

Induction of heme oxygenase-1 expression in vascular smooth muscle cells. A link to endotoxic shock. Yet SF, et al. **J Biol Chem** 1997 Feb 14;272(7):4295–301

Transcriptional control of the heme oxygenase gene in mouse M1 cells during their TPA-induced differentiation into macrophages. Kurata S, et al. **J Cell Biochem** 1996 Sep 1;62(3):314–24

Prion protein fragment 106–126 differentially induces heme oxygenase-1 mRNA in cultured neurons and astroglial cells. Rizzardini M, et al. **J Neurochem** 1997 Feb; 68(2):715–20

Cloning and expression of cDNA for soluble form of rat heme oxygenase-1. Hidaka T, et al. **Kurume Med J** 1996; 43(4):313–24

Approaches to define pathways of redox regulation of a eukaryotic gene: the heme oxygenase 1 example. Tyrrell RM. **Methods** 1997 Mar;11(3):313–8

Activation of heme oxygenase-1 expression by disturbance of endoplasmic reticulum calcium homeostasis in rat neuronal cell culture. Gissel C, et al. **Neurosci Lett** 1997 Aug 8;231(2):75–8

Overexpression of the heme oxygenase gene in renal cell carcinoma. Goodman AI, et al. **Proc Soc Exp Biol Med** 1997 Jan;214(1):54–61

METABOLISM

Carbon monoxide and carotid body chemoreception. Overholt JL, et al. **Adv Exp Med Biol** 1996;410:341–4

Heme oxygenase activity and acute and chronic ethanol exposure in the hippocampus, frontal cerebral cortex, and cerebellum of the near-term fetal guinea pig. Cook MN, et al. **Alcohol** 1997 Mar–Apr;14(2):117–24

Differences in basal and hyperoxia-associated HO expression in oxidant-resistant hamster fibroblasts. Dennery PA, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L672–9

Heme oxygenase substrates acutely lower blood pressure in hypertensive rats. Johnson RA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):H1132–8

NO-mediated activation of heme oxygenase: endogenous cytoprotection against oxidative stress to endothelium. Motterlini R, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):H107–14

Histidine-132 does not stabilize a distal water ligand and is not an important residue for the enzyme activity in heme oxygenase-1. Matera KM, et al. **Biochemistry** 1997 Apr 22;36(16):4909–15

Carbon monoxide formation in the ductus arteriosus in the lamb: implications for the regulation of muscle tone. Coceani F, et al. **Br J Pharmacol** 1997 Feb;120(4):599–608

Corticosterone promotes increased heme oxygenase-2 protein and transcript expression in the newborn rat brain. Maines MD, et al. **Brain Res** 1996 May 25;722(1–2):83–94

Ontogeny of heme oxygenase activity in the hippocampus, frontal cerebral cortex, and cerebellum of the guinea pig. Cook MN, et al. **Brain Res Dev Brain Res** 1996 Mar 29; 92(1):18–23

Heme oxygenase-1 (HO-1) protein induction in rat brain following focal ischemia. Nimura T, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):201–8

Nitric oxide induces heme oxygenase-1 gene expression and carbon monoxide production in vascular smooth muscle cells. Durante W, et al. **Circ Res** 1997 Apr;80(4):557–64

Interrelation between nitric oxide synthase and heme oxygenase in rat endothelial cells. Seki T, et al. **Eur J Pharmacol** 1997 Jul 16;331(1):87–91

Heme oxygenase-1 is regulated by angiotensin II in rat vascular smooth muscle cells. Ishizaka N, et al. **Hypertension** 1997 Mar;29(3):790–5

Mitochondrial heme oxygenase of Mastomys coucha. Srivastava P, et al. **Int J Biochem Cell Biol** 1996 Sep; 28(9):1071–7

Morphological relations between haem oxygenases, NO-synthase and VIP in the canine and feline gastrointestinal tracts. Ny L, et al. **J Auton Nerv Syst** 1997 Jul 14;65(1):49–56

Heme oxygenase-mediated resistance to oxygen toxicity in hamster fibroblasts. Dennery PA, et al. **J Biol Chem** 1997 Jun 6;272(23):14937–42

Heme oxygenase-1, intermediates in verdoheme formation and the requirement for reduction equivalents. Liu Y, et al. **J Biol Chem** 1997 Mar 14;272(11):6909–17

Heme oxygenase-2 is a hemoprotein and binds heme through heme regulatory motifs that are not involved in heme catalysis. McCoubrey WK Jr, et al. **J Biol Chem** 1997 May 9;272(19):12568–74

Oxidation of alpha-meso-formylmesoheme by heme oxygenase. Electronic control of the reaction regiospecificity. Torpey J, et al. **J Biol Chem** 1997 Aug 29;272(35):22008–14

Oxidation of the meso-methylmesoheme regioisomers by heme oxygenase. Electronic control of the reaction regiospecificity. Torpey J, et al. **J Biol Chem** 1996 Oct 18;271(42):26067–73

Heme oxygenase activity and immunohistochemical localization in bovine pulmonary artery and vein. Marks GS, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):1–6

Synergistic effect of retinoic acid on Sn-PP mediated suppression of heme oxygenase activity in vivo in rats. Chandra R, et al. **J Inorg Biochem** 1997 May 15;66(3):153–8

Heme oxygenase-1 expression and its relation to oxidative stress during primary culture of cardiomyocytes. Hoshida S, et al. **J Mol Cell Cardiol** 1996 Sep;28(9):1845–55

Focal hyperexpression of hemeoxygenase-1 protein and messenger RNA in rat brain caused by cellular stress following subarachnoid injections of lysed blood. Matz PG, et al. **J Neurosurg** 1996 Nov;85(5):892–900

Ontogeny and developmental regulation of heme oxygenase. Dennery PA, et al. **J Perinatol** 1996 May–Jun;16(3 Pt 2):S79–83 (32 ref.)

Heme oxygenase-dependent carbon monoxide production is a hepatic adaptive response to sepsis. Downard PJ, et al. **J Surg Res** 1997 Jul 15;71(1):7–12

Carbon monoxide and nitric oxide homology: differential modulation of heme oxygenases in brain and detection of protein and activity. Maines M. **Methods Enzymol** 1996; 268:473–88

Localization of heme oxygenase in rat retina: effect of light adaptation. Nishimura RN, et al. **Neurosci Lett** 1996 Feb 16;205(1):13–6

Regional difference in induction of heme oxygenase-1 protein following rat transient forebrain ischemia. Takeda A, et al. **Neurosci Lett** 1996 Mar 1;205(3):169–72

Heme oxygenase-1 and heat shock protein 70 induction in glia and neurons throughout rat brain after experimental intracerebral hemorrhage. Matz PG, et al. **Neurosurgery** 1997 Jan;40(1):152–60; discussion 160–2

Localization of nitric oxide synthase and haemoxygenase, and functional effects of nitric oxide and carbon monoxide in the pig and human intravesical ureter. Iselin CE, et al. **Neurourol Urodyn** 1997;16(3):209–27

Duration of action and tissue distribution of zinc protoporphyrin in neonatal rats. Rodgers PA, et al. **Pediatr Res** 1996 Jun;39(6):1041–9

Tissue distribution of synthetic heme analogues: studies with tin, chromium, and zinc mesoporphyrins. Bundock EA, et al. **Pharmacology** 1996 Mar;52(3):187–98

[Expression pattern of the carbon monoxide generating stress protein (HSP-32/HO-1) in parenchymatous and non-parenchymatous liver cells after hemorrhagic shock] Wanner GA, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:737–41 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Occurrence and putative hormone regulatory function of a constitutive heme oxygenase in rat pancreatic islets. Henningsson R, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C703–9

The heme oxygenase system: a regulator of second messenger gases. Maines MD. **Annu Rev Pharmacol Toxicol** 1997; 37:517–54 (212 ref.)

Heme oxygenase and NO-synthase in the human prostate--relation to adrenergic, cholinergic and peptide-containing nerves. Hedlund P, et al. **J Auton Nerv Syst** 1997 Apr 14;63(3):115–26

Induction of heme oxygenase-1 inhibits the monocyte transmigration induced by mildly oxidized LDL. Ishikawa K, et al. **J Clin Invest** 1997 Sep 1;100(5):1209–16

RADIATION EFFECTS

Overxpression of Bcl-2 inhibits UVA-mediated immediate apoptosiinrat 6 fibroblasts: evidence for the involvement of Bcl-2 as an antioxidant. Pourzand C, et al. **Cancer Res** 1997 Apr 15;57(8):1405–11

HEME SYNTHETASE see **FERROCHELATASE**

HEMEL see **ALTRETAMINE**

HEMEPROTEINS

Is haemozoin a target for antimalarial drugs? Meshnick SR. **Ann Trop Med Parasitol** 1996 Aug;90(4):367–72 (40 ref.)

Detection of nitric oxide by electron spin resonance in chemical, photochemical, cellular, physiological, and pathophysiological systems. Kalyanaraman B. **Methods Enzymol** 1996;268:168–87

ADVERSE EFFECTS

Adaptation to the nephrotoxicity of heme proteins. Nath KA. **Exp Nephrol** 1996 May–Jun;4(3):139–43 (27 ref.)

ANTAGONISTS & INHIBITORS

Non-iron porphyrins inhibit beta-haematin (malaria pigment) polymerisation. Basilico N, et al. **FEBS Lett** 1997 Jun 9; 409(2):297–9

BIOSYNTHESIS

Inhibition of hemozoin formation in Plasmodium falciparum trophozoite extracts by heme analogs: possible implication in the resistance to malaria conferred by the beta-thalassemia trait. Martiney JA, et al. **Mol Med** 1996 Mar;2(2):236–46

Patterns of haemozoin accumulation in tissue. Sullivan AD, et al. **Parasitology** 1996 Mar;112 (Pt 3):285–94

Haemozoin formation in malaria parasites: is there a haem polymerase? Ridley RG. **Trends Microbiol** 1996 Jul; 4(7):253–4

CHEMICAL SYNTHESIS

[Formation of hemichrome during reaction of hemoglobin with polar phosphatidylcholine derivatives] Andreiuk GM, et al. **Bioorg Khim** 1997 Apr;23(4):290–3 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Reactions of reactive metabolites with hemoproteins--toxicological implications: covalent alteration of hemoproteins. Osawa Y, et al. **Adv Exp Med Biol** 1996;387:37–45 (34 ref.)

The effect of ligand field strength on nonresonance Raman characteristics of hemoproteins. Johjima T, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):601–6

Design of an artificial hemoprotein based on human serum albumin. Shumyantseva VV, et al. **Biochem Mol Biol Int** 1996 Jun;39(3):503–10

Probing the catalytic mechanism of sulfite reductase by X-ray crystallography: structures of the Escherichia coli hemoprotein in complex with substrates, inhibitors, intermediates, and products. Crane BR, et al. **Biochemistry** 1997 Oct 7;36(40):12120–37

Characterization of ferrous FixL-nitric oxide adducts by resonance Raman spectroscopy. Lukat-Rodgers GS, et al. **Biochemistry** 1997 Apr 8;36(14):4178–87

Spectral splitting in the alpha (Q0,0) absorption band of ferrous cytochrome c and other heme proteins. Reddy KS, et al. **Biochemistry** 1996 Oct 1;35(39):12820–30

Thermal access to amplified chemical potential and the determination of equilibrium constants in protein solutions at subfreezing temperatures. Yang AS, et al. **Biophys Chem** 1996 Feb 8;58(3):341–54

Theoretical study of the electrostatic and steric effects on the spectroscopic characteristics of the metal-ligand unit of heme proteins. 2. C-O vibrational frequencies, 17O isotropic chemical shifts, and nuclear quadrupole coupling constants. Kushkuley B, et al. **Biophys J** 1997 Feb;72(2 Pt 1):899–912

Assignment of the hyperfine-shifted 1H-NMR signals of the heme in the oxygen sensor FixL from Rhizobium meliloti. Bertolucci C, et al. **Chem Biol** 1996 Jul;3(7):561–6

Spectral demonstration of semihemoglobin formation during CN-hemin incorporation into human apohemoglobins. Vasudevan G, et al. **J Biol Chem** 1997 Jan 3;272(1):517–24

Spin-lattice relaxation of denatured nitrosyl hemoproteins. Wajnberg E, et al. **J Magn Reson B** 1996 Nov;113(2):119–24

Nitric oxide synthases: analogies to cytochrome P450 monooxygenases and characterization of recombinant rat neuronal nitric oxide synthase hemoprotein. McMillan K, et al. **Methods Enzymol** 1996;268:460–72

Formation of hydroxyeicosatetraenoic acids from hemozoin-catalyzed oxidation of arachidonic acid. Green MD, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):183–8

The heme redox center of chloroplast cytochrome f is linked to a buried five-water chain. Martinez SE, et al. **Protein Sci** 1996 Jun;5(6):1081–92

[Conformation properties of heme-containing proteins using spin labels] Postnikova GB. **Biokhimiia** 1996 Jun; 61(6):947–67 (59 ref.) (Eng. Abstr.) **(Rus)**

GENETICS

Gene regulation of HBP 23 by metalloporphyrins and protoporphyrin IX in liver and hepatocyte cultures. Immenschuh S, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):667–70

Stable high-copy-number bacteriophage lambda promoter vectors for overproduction of proteins in Escherichia coli. Love CA, et al. **Gene** 1996 Oct 17;176(1–2):49–53

Molecular characterization of a heme-binding protein of Bacteroides fragilis BE1. Otto BR, et al. **Infect Immun** 1996 Oct;64(10):4345–50

Paraquat regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K-12 is SoxRS independent but modulated by sigma S. Membrillo-Hernández J, et al. **J Bacteriol** 1997 May;179(10):3164–70

Nitric oxide, nitrite, and Fnr regulation of hmp (flavohemoglobin) gene expression in Escherichia coli K-12. Poole RK, et al. **J Bacteriol** 1996 Sep; 178(18):5487–92

Roles of RpoS (sigmaS), IHF and ppGpp in the expression of the hmp gene encoding the flavohemoglobin (Hmp) of Escherichia coli K-12. Membrillo-Hernandez J, et al. **Mol Gen Genet** 1997 May 20;254(5):599–603

Rhizobium leguminosarum bv. viciae contains a second fnr/fixK-like gene and an unusual fixL homologue. Patschkowski T, et al. **Mol Microbiol** 1996 Jul;21(2):267–80

ISOLATION & PURIFICATION

Isolation and characterization of a novel monomeric zinc- and heme-containing protein from bovine brain. Fundel SM, et al. **FEBS Lett** 1996 Oct 14;395(1):33–8

Isolation of heme-binding proteins from Vibrio anguillarum using affinity chromatography. Mazoy R, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):19–23

Purification, characterization and cDNA cloning of a novel anticoagulant of the intrinsic pathway, (prolixin-S) from salivary glands of the blood sucking bug, Rhodnius prolixus. Sun J, et al. **Thromb Haemost** 1996 Apr; 75(4):573–7

METABOLISM

A novel heme protein that acts as a carbon monoxide-dependent transcriptional activator in Rhodospirillum rubrum. Aono S, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):752–6

Nitric oxide binding and crystallization of recombinant nitrophorin I, a nitric oxide transport protein from the blood-sucking bug Rhodnius prolixus. Andersen JF, et al. **Biochemistry** 1997 Apr 15;36(15):4423–8

Kinetics of nitric oxide dissociation from five- and six-coordinate nitrosyl hemes and heme proteins, including soluble guanylate cyclase. Kharitonov VG, et al. **Biochemistry** 1997 Jun 3;36(22):6814–8

Fluoride binding in hemoproteins: the importance of the distal cavity structure. Neri F, et al. **Biochemistry** 1997 Jul 22;36(29):8947–53

Nonsteric factors dominate binding of nitric oxide, azide, imidazole, cyanide, and fluoride to the rhizobial heme-based oxygen sensor FixL. Winkler WC, et al. **Chem Biol** 1996 Oct;3(10):841–50

Formation of haemozoin/beta-haematin under physiological conditions is not spontaneous. Pandey AV, et al. **FEBS Lett** 1996 Sep 16;393(2–3):189–93

Depolymerization of malarial hemozoin: a novel reaction initiated by blood schizontocidal antimalarials. Pandey AV, et al. **FEBS Lett** 1997 Feb 3;402(2–3):236–40

Artificial peroxidase-like hemoproteins based on antibodies constructed from a specifically designed ortho-carboxy substituted tetraarylporphyrin hapten and exhibiting a high affinity for iron-porphyrins. Quilez R, et al. **FEBS Lett** 1996 Oct 14;395(1):73–6

Haemin binding as a factor in the virulence of Porphyromonas gingivalis. Smalley JW, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):65–70

Measuring the oxidation of heme compounds in heart homogenates from rats supplemented with dietary antioxidants. North JA, et al. **Free Radic Biol Med** 1997; 22(1–2):175–84

Lipase secretion by bacterial hybrid ATP-binding cassette exporters: molecular recognition of the LipBCD, PrtDEF, and HasDEF exporters. Akatsuka H, et al. **J Bacteriol** 1997 Aug;179(15):4754–60

Expression, purification, and properties of recombinant barley (Hordeum sp.) hemoglobin. Optical spectra and reactions with gaseous ligands. Duff SM, et al. **J Biol Chem** 1997 Jul 4;272(27):16746–52

Evidence for electron transfer-dependent formation of a nitrogenase iron protein-molybdenum-iron protein tight complex. The role of aspartate 39. Lanzilotta WN, et al. **J Biol Chem** 1997 Feb 14;272(7):4157–65

Function and expression of flavohemoglobin in Saccharomyces cerevisiae. Evidence for a role in the oxidative stress response. Zhao XJ, et al. **J Biol Chem** 1996 Oct 11;271(41):25131–8

The hmu locus of Yersinia pestis is essential for utilization of free haemin and haem--protein complexes as iron sources. Hornung JM, et al. **Mol Microbiol** 1996 May; 20(4):725–39

On the molecular mechanism of chloroquine's antimalarial action. Sullivan DJ Jr, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11865–70

PHARMACOKINETICS

Clearance kinetics of parasites and pigment-containing leukocytes in severe malaria. Day NP, et al. **Blood** 1996 Dec 15;88(12):4694–700

PHARMACOLOGY

The interaction of the heme-octapeptide, N-acetylmicroperoxidase-8 with antimalarial drugs: solution studies and modeling by molecular mechanics methods. Marques HM, et al. **J Inorg Biochem** 1996 Oct; 64(1):7–23

PHYSIOLOGY

PO2 affinities, heme proteins, and reactive oxygen intermediates involved in intracellular signal cascades for sensing oxygen. Acker H. **Adv Exp Med Biol** 1996; 410:59–64 (36 ref.)

A monoclonal antibody directed against the 97-kilodalton gonococcal hemin-binding protein inhibits hemin utilization by Neisseria gonorrhoeae. Lee BC, et al. **Infect Immun** 1997 Jul;65(7):2970–4

RADIATION EFFECTS

Mechanistic studies on uroporphyrin I-induced photoinactivation of some heme-enzymes. Afonso SG, et al. **Int J Biochem Cell Biol** 1996 Apr;28(4):415–20

HEMERALOPIA see **VISION DISORDERS**

HEMERYTHRIN

ANALOGS & DERIVATIVES

Structures of wild-type chloromet and L103N hydroxomet Themiste zostericola myohemerythrins at 1.8 A resolution. Martins LJ, et al. **Biochemistry** 1997 Jun 10;36(23):7044–9

Functional role of leucine-103 in myohemerythrin. Raner GM, et al. **Biochemistry** 1997 Jun 10;36(23):7037–43

Contribution of increased length and intact capping sequences to the conformational preference for helix in a 31-residue peptide from the C terminus of myohemerythrin. Reymond MT, et al. **Biochemistry** 1997 Apr 29;36(17):5234–44

Primary structure of a myohemerythrin-like cadmium-binding protein, isolated from a terrestrial annelid oligochaete. Nejmeddine A, et al. **C R Acad Sci III** 1997 Jun;320(6):459–68

A rubrerythrin operon and nigerythrin gene in Desulfovibrio vulgaris (Hildenborough). Lumppio HL, et al. **J Bacteriol** 1997 Jul;179(14):4607–15

CHEMISTRY

EXAFS comparison of the dimanganese core structures of manganese catalase, arginase, and manganese-substituted ribonucleotide reductase and hemerythrin. Stemmler TL, et al. **Biochemistry** 1997 Aug 12;36(32):9847–58

HEMIANOPSIA

Line bisection with a head-mounted pointing device: an investigation of the role of right hand use and bilateral hemisphere activation in left neglect. Hjaltason H, et al. **Neuropsychologia** 1997 Aug;35(8):1175–9

Learning spatial sequences in unilateral neglect. Cohen A, et al. **Psychol Res** 1997;60(1–2):42–52

CHEMICALLY INDUCED

Adverse event with first-dose perindopril in congestive heart failure [letter; comment] Tan LB, et al. **Lancet** 1997 Aug 16;350(9076):521. Comment on: Lancet 1997 Jun 7;349(9066):1671–2.

DIAGNOSIS

The localizing value of a quadrantanopia. Jacobson DM. **Arch Neurol** 1997 Apr;54(4):401–4

Inhibitory tagging of locations in the blind field of hemianopic patients. Danziger S, et al. **Conscious Cogn** 1997 Jun–Sep;6(2–3):291–307

[Hemi-neglect versus hemianopia. Differential diagnosis] Kerkhoff G, et al. **Fortschr Neurol Psychiatr** 1997 Jun; 65(6):278–89 (61 ref.) (Eng. Abstr.) **(Ger)**

ETIOLOGY

Gamma knife pallidotomy: case report. Bonnen JG, et al. **Acta Neurochir (Wien)** 1997;139(5):442–5

Traumatic chiasmal syndrome: a feature photograph. Goh KY, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):614–5

Transposition of homonymous hemianopia after craniopharyngioma surgery [letter] De Vile CJ, et al. **Eye** 1997;11 (Pt 1):127–30

Hemifield slide diplopia from altitudinal visual field defects. Borchert MS, et al. **J Neuroophthalmol** 1996 Jun; 16(2):107–9

Temporal crescent syndrome with magnetic resonance correlation. Chavis PS, et al. **J Neuroophthalmol** 1997 Sep; 17(3):151–5

Lateral and radial neglect as a function of spatial position: a case study. Halligan PW, et al. **Neuropsychologia** 1995 Dec;33(12):1697–702

Head and trunk orientation modulate visual neglect. Schindler I, et al. **Neuroreport** 1997 Aug 18;8(12):2681–5

[Temporal hemianopia and diabetes insipidus following head injury] Zaaroor M, et al. **Harefuah** 1997 Jan 1;132(1):14–5, 72 (Eng. Abstr.) **(Heb)**

HEMIANOPSIA

[A case of central homonymous hemianopsia due to cerebral infarction of the occipital tip] Kiriyama K, et al. **Rinsho Shinkeigaku** 1996 Jul;36(7):902–5 (Eng. Abstr.) **(Jpn)**

[Transient prosopagnosia and lasting topographical disorientation after the total removal of a right occipital arteriovenous malformation] Suzuki K, et al. **Rinsho Shinkeigaku** 1996 Sep;36(9):1114–7 (Eng. Abstr.) **(Jpn)**

["Associative" visual agnosia for objects, pictures, faces and letters with altitudinal hemianopia] Suzuki K, et al. **Rinsho Shinkeigaku** 1997 Jan;37(1):31–6 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

The central visual field in homonymous hemianopia. Evidence for unilateral foveal representation. Gray LG, et al. **Arch Neurol** 1997 Mar;54(3):312–7

PHYSIOPATHOLOGY

Hemispatial sunglasses: effect on unilateral spatial neglect. Arai T, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):230–2

Field-specific deficits in visual imagery following hemianopia due to unilateral occipital infarcts. Butter CM, et al. **Brain** 1997 Feb;120 (Pt 2):217–28

Anatomical and neurological correlates of acute and chronic visuospatial neglect following right hemisphere stroke. Samuelsson H, et al. **Cortex** 1997 Jun;33(2):271–85

Homonymous bilateral hemianopsia: electrophysiological study of a case. Magni R, et al. **Eur J Ophthalmol** 1996 Jan-Mar;6(1):63–8 (55 ref.)

Hemispatial neglect in the visual hallucination of a patient with Anton's syndrome. Suzuki K, et al. **Eur Neurol** 1997; 37(1):63–4

Ibotenic acid lesions of the substantia nigra pars reticulata ipsilateral to a visual cortical lesion fail to restore visual orienting responses in the cat. Ciaramitaro VM, et al. **J Comp Neurol** 1997 Jan 27;377(4):596–610

Target predictability influences the distribution of coordinated eye-head gaze saccades in patients with homonymous hemianopia. Schoepf D, et al. **Neurol Res** 1996 Oct;18(5):425–39

Hemianopic anosognosia. Celesia GG, et al. **Neurology** 1997 Jul;49(1):88–97

Are there sex differences in hemispatial visual neglect after unilateral stroke? McGlone J, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr; 10(2):125–34 (57 ref.)

Early visual processing in neglect patients: a study with steady-state VEPs. Angelelli P, et al. **Neuropsychologia** 1996 Dec;34(12):1151–7

A case of 'sign blindness' following left occipital damage in a deaf signer. Hickok G, et al. **Neuropsychologia** 1995 Dec;33(12):1597–606

Magnetoencephalographic evidence for non-geniculostriate visual input to human cortical area V5. Holliday IE, et al. **Neuropsychologia** 1997 Aug;35(8):1139–46

Mechanisms of unilateral spatial neglect in copying a single object. Ishiai S, et al. **Neuropsychologia** 1996 Oct; 34(10):965–71

One hand is better than two: motor extinction of left hand advantage in unilateral neglect [comment] Robertson IH, et al. **Neuropsychologia** 1994 Jan;32(1):1–11. Comment on: Neuropsychologia 1992 Jun;30(6):553–63.

Visually guided reaching with the forelimb contralateral to a "blind" hemisphere in the monkey: contribution of the cerebellum. Savaki HE, et al. **Neuroscience** 1996 Nov; 75(1):143–59

Hemianopic visual field defects in children with intracranial shunts: report of two cases. Molia L, et al. **Neurosurgery** 1996 Sep;39(3):599–603

The role of light scatter in the residual visual sensitivity of patients with complete cerebral hemispherectomy. King SM, et al. **Vis Neurosci** 1996 Jan-Feb;13(1):1–13

PSYCHOLOGY

Object-centered not scene-based visual neglect. Tipper SP, et al. **J Exp Psychol Hum Percept Perform** 1996 Oct; 22(5):1261–78

Sustained attention and awareness of disability in chronic neglect. Hjaltason H, et al. **Neuropsychologia** 1996 Dec; 34(12):1229–33

RADIOGRAPHY

Sudden "stroke-like' onset of homonymous hemianopsia due to bacterial brain abscess. Shintani S, et al. **J Neurol Sci** 1996 Nov;143(1-2):190–4 (13 ref.)

Left homonomous hemianopsia (affecting left halves of both fields). Francis RA. **Mo Med** 1996 Apr;93(4):155–6

THERAPY

Hemispatial sunglasses: effect on unilateral spatial neglect. Arai T, et al. **Arch Phys Med Rehabil** 1997 Feb;78(2):230–2

Can visual function be restored in patients with homonymous hemianopia? Pambakian AL, et al. **Br J Ophthalmol** 1997 Apr;81(4):324–8 (64 ref.)

HEMIBODY IRRADIATION

see related
WHOLE-BODY IRRADIATION

The role of whole-pelvic irradiation in the treatment of early-stage uterine carcinosarcoma. Chi DS, et al. **Gynecol Oncol** 1997 Jun;65(3):493–8 (21 ref.)

Long-term survival with whole abdominopelvic irradiation in platinum-refractory persistent or recurrent ovarian cancer. Cmelak AJ, et al. **Gynecol Oncol** 1997 Jun; 65(3):453–60

Whole abdominal external beam radiation in the treatment of primary carcinoma of the fallopian tube. Kojs Z, et al. **Gynecol Oncol** 1997 Jun;65(3):473–7

Acceleration of hemopoietic recovery in dogs after extended-field partial-body irradiation by treatment with colony-stimulating factors: rhG-CSF and rhGM-CSF. Nothdurft W, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 15;37(5):1145–54

Half-body irradiation in the treatment of multiple myeloma: a report of nine cases. Plesničar A, et al. **Tumori** 1996 Nov-Dec;82(6):588–91

[Radiotherapy of bone metastases. A review of the literature] Simon JM. **Bull Cancer Radiother** 1996;83(4):290–8 (67 ref.) **(Fre)**

METHODS

Altered fractionation of hemithorax irradiation for pleural mesothelioma and failure patterns after treatment. Holsti LR, et al. **Acta Oncol** 1997;36(4):397–405

HEMICHOLINIUM 3

METABOLISM

Effects of chlorpyrifos on high-affinity choline uptake and [3H]hemicholinium-3 binding in rat brain. Liu J, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):84–90

HEMICRANIA see **MIGRAINE**

HEMIFACIAL MICROSOMIA see **FACIAL ASYMMETRY**

HEMIMELIA see **ECTROMELIA**

HEMIN

Study of a lanthanide fluorescence system with a coupled reaction based on hemin catalysis. Zheng XY, et al. **Analyst** 1997 May;122(5):455–8

ANALOGS & DERIVATIVES

Spectral demonstration of semihemoglobin formation during CN-hemin incorporation into human apohemoglobins. Vasudevan G, et al. **J Biol Chem** 1997 Jan 3;272(1):517–24

ANALYSIS

[A hemin study of hemorrhages in the area of stab-cutting wounds] Ivanov IN, et al. **Sud Med Ekspert** 1997 Jan-Mar; 40(1):15–7 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS

Non-iron porphyrins inhibit beta-haematin (malaria pigment) polymerisation. Basilico N, et al. **FEBS Lett** 1997 Jun 9; 409(2):297–9

Urate protects a blood-sucking insect against hemin-induced oxidative stress. Souza AV, et al. **Free Radic Biol Med** 1997;22(1-2):209–14

CHEMICAL SYNTHESIS

Reaction between ferriprotoporphyrin IX and the antimalarial endoperoxide artesunate gives an intermediate species with enhanced redox catalytic activity. Adams PA, et al. **J Pharm Pharmacol** 1996 Feb;48(2):183–7

CHEMISTRY

Spectral and interferometrical study of the interaction of haemin with glutathione. Sahini VE, et al. **Biophys Chem** 1996 Feb 8;58(3):245–53

Investigations of B- and beta-hematin. Blauer G, et al. **J Inorg Biochem** 1997 May 1;66(2):145–52

[Comparative assessment of carboxymethylcellulose sorption properties with respect to hemin and globin] Nekliudov AD, et al. **Prikl Biokhim Mikrobiol** 1996 May-Jun; 32(3):290–3 (Eng. Abstr.) **(Rus)**

GENETICS

A site-directed Staphylococcus aureus hemB mutant is a small-colony variant which persists intracellularly. von Eiff C, et al. **J Bacteriol** 1997 Aug;179(15):4706–12

METABOLISM

Inhibition of oxidation of aromatic amines in heme-containing hydrogen peroxide systems by substituted 4,6-di-tert-butyl-pyrocatechols. Metelitza DI, et al. **Biochemistry (Mosc)** 1997 Mar;62(3):275–84

Formation of haemozoin/beta-haematin under physiological conditions is not spontaneous. Pandey AV, et al. **FEBS Lett** 1996 Sep 16;393(2-3):189–93

Haemin binding as a factor in the virulence of Porphyromonas gingivalis. Smalley JW, et al. **FEMS Microbiol Lett** 1996 Jul 15;141(1):65–70

Correlation of membrane lipid peroxidation with oxidation of hemoglobin variants: possibly related to the rates of hemin release. Chiu DT, et al. **Free Radic Biol Med** 1996; 21(1):89–95

Sequence and genetic analysis of the hemin storage (hms) system of Yersinia pestis. Lillard JW Jr, et al. **Gene** 1997 Jul 1;193(1):13–21

A monoclonal antibody directed against the 97-kilodalton gonococcal hemin-binding protein inhibits hemin utilization by Neisseria gonorrhoeae. Lee BC, et al. **Infect Immun** 1997 Jul;65(7):2970–4

Characterization of hemin binding activity of Streptococcus pneumoniae. Tai SS, et al. **Infect Immun** 1997 Mar; 65(3):1083–7

The Tla protein of Porphyromonas gingivalis W50: a homolog of the RI protease precursor (PrpRI) is an outer membrane receptor required for growth on low levels of hemin. Aduse-Opoku J, et al. **J Bacteriol** 1997 Aug; 179(15):4778–88

Isolation and characterization of a hemin-regulated gene, hemR, from Porphyromonas gingivalis. Karunakaran T, et al. **J Bacteriol** 1997 Mar;179(6):1898–908

Detection and comparison of specific hemin binding by Porphyromonas gingivalis and Prevotella intermedia. Tompkins GR, et al. **J Bacteriol** 1997 Feb;179(3):620–6

Quaternary structure regulates hemin dissociation from human hemoglobin. Hargrove MS, et al. **J Biol Chem** 1997 Jul 11;272(28):17385–9

Isolation and characterization of a hemin-binding cell envelope protein from Porphyromonas gingivalis. Kim SJ, et al. **Microb Pathog** 1996 Jul;21(1):65–70

PHARMACOKINETICS

Iron acquisition by oral hemolytic spirochetes: isolation of a hemin-binding protein and identification of iron reductase activity. Scott D, et al. **Can J Microbiol** 1996 Oct; 42(10):1072–9

PHARMACOLOGY

Protection and rescue from 2',3'-dideoxypyrimidine nucleoside analog toxicity by hemin in human bone marrow progenitor cells. Fowler DA, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):191–5

Viral infection. II. Hemin induces overexpression of p67 as it partially prevents appearance of an active p67-deglycosylase in baculovirus-infected insect cells. Saha D, et al. **Arch Biochem Biophys** 1997 Jun 15; 342(2):373–82

Hyperresistance of leukemia cells to photodynamic inactivation after long-term exposure to hemin. Lin F, et al. **Cancer Res** 1996 Oct 15;56(20):4636–43

Hemin-induced erythroid differentiation of human myeloleukemia K562 cell line and its modification by bioresponse modifiers. Nakajima O, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Feb;43(1):115–34

Mechanism of differentiation of human erythroleukaemic cell line K562 by hemin. Baliga BS, et al. **Cell Prolif** 1993 Nov; 26(6):519–29

Effects of combinations of stem cell factor and hemin on erythropoiesis after azidothymidine treatment of immunosuppressed mice. Hamburger AW. **Eur J Haematol** 1996 Aug;57(2):128–33

Hemin-induced membrane sulfhydryl oxidation: possible involvement of thiyl radicals. Chiu DT, et al. **Free Radic Res** 1997 Jul;27(1):55–62

The outcome of poliovirus infections in K562 cells is cytolytic rather than persistent after hemin-induced differentiation. Benton PA, et al. **J Virol** 1996 Aug; 70(8):5525–32

PHYSIOLOGY

An upregulation of interleukin-2 receptor, transferrin receptor expression and cytokine production mediated by hemin in human peripheral blood mononuclear cells. Tsuji A, et al. **Int J Urol** 1996 May;3(3):191–5

Overexpression of HSF2-beta inhibits hemin-induced heat shock gene expression and erythroid differentiation in K562 cells. Leppä S, et al. **J Biol Chem** 1997 Jun 13; 272(24):15293–8

Modulation of globin gene expression in cultured erythroid precursors derived from normal individuals: transcriptional and posttranscriptional regulation by hemin. Kollia P, et al. **Proc Assoc Am Physicians** 1997 Jul;109(4):420–8

THERAPEUTIC USE

Hematin therapy in children with protoporphyric liver disease. Potter C, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):402–7

TOXICITY

Enhanced in vitro neurotoxicity of artemisinin derivatives in the presence of haemin. Smith SL, et al. **Biochem Pharmacol** 1997 Jan 10;53(1):5–10

HEMIPARESIS see **HEMIPLEGIA**

HEMIPELVECTOMY

Internal hemipelvectomy and endoprosthetic pelvic replacement: long-term follow-up results. Bruns J, et al. **Arch Orthop Trauma Surg** 1997;116(1-2):27-31

Massive pelvis injuries treated with amputations: case reports and literature review. Lawless MW, et al. **J Trauma** 1997 Jun;42(6):1169-75 (19 ref.)

Hemipelvectomy for soft tissue sarcoma: clinical results in fifty-three patients. Prewitt TW, et al. **Surg Oncol** 1995; 4(5):261-9

[Malignant hemangiopericytoma of the pelvis: treatment using internal hemipelvectomy] Heymans O, et al. **Acta Orthop Belg** 1997 Mar;63(1):40-2 (Eng. Abstr.) **(Fre)**

[Chondrosarcoma and hemipelvectomy] Mladenović Lj, et al. **Srp Arh Celok Lek** 1997 Jul-Aug;125(7-8):244-5 (Eng. Abstr.) **(Scc)**

REHABILITATION

Pelvic reconstruction with a free fillet lower leg flap. Yamamoto Y, et al. **Plast Reconstr Surg** 1997 Apr; 99(5):1439-41

[Hemipelvectomy due to blast injuries: possibilities of occupational rehabilitation] Cesarec M, et al. **Arh Hig Rada Toksikol** 1996 Sep;47(3):289-93 (Eng. Abstr.) **(Scr)**

HEMIPLEGIA

Acetazolamide responsiveness in familial hemiplegic migraine [letter] Athwal BS, et al. **Ann Neurol** 1996 Nov;40(5):820-1

A mechanical model to study the relationship between gait speed and muscular strength. Nadeau S, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):386-94

Test-retest reliability of the Chattecx Balance System in the patient with hemiplegia. Levine D, et al. **J Rehabil Res Dev** 1996 Feb;33(1):36-44

[A case of Dyke-Davidoff-Masson syndrome with total hemiatrophy] Hozumi A, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1143-9 (17 ref.) (Eng. Abstr.) **(Jpn)**

[A particular type of epilepsy in patients with congenital hemiparesis associated with polymicrogyria or unilateral pachygyria] Caraballo RH, et al. **Rev Neurol** 1997 Jul; 25(143):1058-63 (Eng. Abstr.) **(Spa)**

BLOOD

Assessment of upper limb function in hemiplegia by measuring transcutaneous oxygen tension. Kurabayashi H, et al. **Am J Phys Med Rehabil** 1996 Sep-Oct;75(5):353-5

Transcutaneous oxygen measurement in stroke: circulatory disorder of the affected leg? Lem FC, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):998-1002

Concurrent development of hemiplegia and angina pectoris in a 46-year-old man with familial hypercholesterolemia and elevated serum Lp(a) concentrations. Kazumi T, et al. **J Atheroscler Thromb** 1994;1(2):129-31

The relation between crossed cerebellar blood flow and severities of hemiplegia: a technetium-(99m) hexamethylpropylene amine oxine SPECT study using Patlak plot method. Watanabe H, et al. **Tohoku J Exp Med** 1996 Jul;179(3):177-81

CEREBROSPINAL FLUID

Varicella-zoster virus DNA in CSF and arteries in delayed contralateral hemiplegia: evidence for viral invasion of cerebral arteries. Melanson M, et al. **Neurology** 1996 Aug; 47(2):569-70

CLASSIFICATION

Assessment of upper limb function in hemiplegia by measuring transcutaneous oxygen tension. Kurabayashi H, et al. **Am J Phys Med Rehabil** 1996 Sep-Oct;75(5):353-5

COMPLICATIONS

Unilateral Heberden's nodes in a case of Erb-Duchenne paralysis [letter; comment] Zorzin L, et al. **Ann Rheum Dis** 1996 Nov;55(11):857-8. Comment on: Ann Rheum Dis 1995 Nov;54(11):936-7.

Calcitonin treatment in reflex sympathetic dystrophy: a preliminary study. Hamamci N, et al. **Br J Clin Pract** 1996 Oct-Nov;50(7):373-5

The syndrome of delayed posthemiplegic hemidystonia, hemiatrophy, and partial seizure: clinical, neuroimaging, and motor-evoked potential studies. Thajeb P. **Clin Neurol Neurosurg** 1996 Aug;98(3):207-12

Sparing effect of hemiparesis on palindromic rheumatism. Ouguchi Y, et al. **Clin Rheumatol** 1997 Mar;16(2):204-6

Recovery of erosive rheumatoid arthritis after human immunodeficiency virus-1 infection and hemiplegia. Lapadula G, et al. **J Rheumatol** 1997 Apr;24(4):747-51

Visual outcome in children with congenital hemiplegia: correlation with MRI findings. Mercuri E, et al. **Neuropediatrics** 1996 Aug;27(4):184-8

A longitudinal study of early intellectual development in hemiplegic children. Muter V, et al. **Neuropsychologia** 1997 Mar;35(3):289-98

Amelioration of hemiplegia-associated osteopenia more than 4 years after stroke by 1 alpha-hydroxyvitamin D3 and calcium supplementation. Sato Y, et al. **Stroke** 1997 Apr; 28(4):736-9

Pure motor hemiplegia with conjugate lateral gaze palsy in pontine lacunar infarction. Heo JH, et al. **Yonsei Med J** 1996 Feb;37(1):86-8

[Ambulation after fracture of the femur: recuperation in Parkinsonian and hemiplegic patients] Gialanella B, et al. **G Ital Med Lav Ergon** 1996 Jan-May;18(1-3):51-5 (Eng. Abstr.) **(Ita)**

[Hypertrophic osteoarthropathy in hemiparesis] Jajić I, et al. **Reumatizam** 1996;43(2):14-6 (Eng. Abstr.) **(Scr)**

[Hyperkinetic motor behavior contralateral to hemiparesis caused by hemispheric stroke (letter)] Arjona A, et al. **Rev Clin Esp** 1997 Aug;197(8):595 **(Spa)**

CONGENITAL

Visual outcome in children with congenital hemiplegia: correlation with MRI findings. Mercuri E, et al. **Neuropediatrics** 1996 Aug;27(4):184-8

Late remission of congenital hemiparesis: the value of MRI. Niemann G, et al. **Neuropediatrics** 1996 Aug;27(4):197-201

DIAGNOSIS

Case of the month. September 1996--new onset hemiparesis. Hamilton RL. **Brain Pathol** 1997 Jan;7(1):715-6

The scalability of the Rivermead Motor Assessment in acute stroke patients. Adams SA, et al. **Clin Rehabil** 1997 Feb; 11(1):42-51

Progressive hemiparesis in frontal lobe degeneration. Schmidtke K, et al. **Eur Neurol** 1997;38(2):105-12 (56 ref.)

Physical disability in patients with hemiparesis. Abdulwahab SS. **Int J Rehabil Res** 1996 Jun;19(2):157-61

Late blink reflex changes in lesions of thalamus and internal capsule. Chia LG. **Neurology** 1997 Sep;49(3):874-6

Late remission of congenital hemiparesis: the value of MRI. Niemann G, et al. **Neuropediatrics** 1996 Aug;27(4):197-201

Herpes zoster ophthalmicus with delayed contralateral hemiplegia. François P, et al. **Pediatr Infect Dis J** 1996 May;15(5):471-2

Acquired hemidystonia in childhood: a clinical and neuroradiological study of thirteen patients. Nardocci N, et al. **Pediatr Neurol** 1996 Sep;15(2):108-13

Low-velocity graded treadmill stress testing in hemiparetic stroke patients. Macko RF, et al. **Stroke** 1997 May; 28(5):988-92

DRUG THERAPY

Comparison of two injection techniques using botulinum toxin in spastic hemiplegia. Childers MK, et al. **Am J Phys Med Rehabil** 1996 Nov-Dec;75(6):462-9

Kinematic changes following botulinum toxin injection after traumatic brain injury. Wilson DJ, et al. **Brain Inj** 1997 Mar;11(3):157-67

Botulinum toxin A in the hemiplegic upper limb: a double-blind trial [see comments] Corry IS, et al. **Dev Med Child Neurol** 1997 Mar;39(3):185-93. Comment in: Dev Med Child Neurol 1997 Jul;39(7):491-2.

Alternating hemiplegia of childhood: treatment of attacks with chloral hydrate and niaprazine [letter] Veneselli E, et al. **Eur J Pediatr** 1997 Feb;156(2):157-8

Is infantile alternating hemiplegia mediated by glutamate toxicity and can it be treated with memantine? [letter] Korinthenberg R. **Neuropediatrics** 1996 Oct;27(5):277-8

EPIDEMIOLOGY

Hemineglect in acute stroke--incidence and prognostic implications. The Copenhagen Stroke Study. Pedersen PM, et al. **Am J Phys Med Rehabil** 1997 Mar-Apr;76(2):122-7

ETIOLOGY

Gamma knife pallidotomy: case report. Bonnen JG, et al. **Acta Neurochir (Wien)** 1997;139(5):442-5

Asymmetry of gait initiation in hemiparetic stroke subjects. Hesse S, et al. **Arch Phys Med Rehabil** 1997 Jul; 78(7):719-24

Kernohan-Woltman notch phenomenon: an unusual cause of ipsilateral motor deficit. Zafonte RD, et al. **Arch Phys Med Rehabil** 1997 May;78(5):543-5

Muscle activity adapts to anti-gravity posture during pedalling in persons with post-stroke hemiplegia. Brown DA, et al. **Brain** 1997 May;120 (Pt 5):825-37

Familial hemiplegic migraine and episodic ataxia type-2 are caused by mutations in the Ca2+ channel gene CACNL1A4. Ophoff RA, et al. **Cell** 1996 Nov 1; 87(3):543-52

Development of osteopenia in the hemiplegic finger in patients with stroke. Sato Y, et al. **Eur Neurol** 1996; 36(5):278-83

Hemiplegia. Raman TS, et al. **Indian Pediatr** 1997 Jan; 34(1):55-9

Clinical and etiological profile of ataxic hemiparesis. Kumar N, et al. **J Assoc Physicians India** 1996 Jun;44(6):383-4

Pontine-crossed paralysis consequent to multiple trauma: case report. Keller TM, et al. **J Trauma** 1996 Nov; 41(5):923-5

Rapid recovery from left hemiplegia. Gass A, et al. **Lancet** 1997 Mar 15;349(9054):772

Supratentorial glioma manifesting as acute onset of pure motor hemiparesis--case report. Yamaki T, et al. **Neurol Med Chir (Tokyo)** 1997 May;37(5):422-5

Ipsilateral hemiplegia caused by right internal capsule and thalamic hemorrhage: demonstration of predominant ipsilateral innervation of motor and sensory systems by MRI, MEP, and SEP. Hosokawa S, et al. **Neurology** 1996 Apr;46(4):1146-9

Ataxic hemiparesis and hemiageusia from an isolated post-traumatic midbrain lesion. Johnson TM. **Neurology** 1996 Nov;47(5):1348-9

Audiogenic startle reflex in acute hemiplegia. Voordecker P, et al. **Neurology** 1997 Aug;49(2):470-3

Inverse relationship between sensation of effort and muscular force during recovery from pure motor hemiplegia: a single-case study. Rode G, et al. **Neuropsychologia** 1996 Feb;34(2):87-95

Herpes zoster ophthalmicus with delayed contralateral hemiplegia. François P, et al. **Pediatr Infect Dis J** 1996 May;15(5):471-2

Spontaneous regression of intraspinal neuroblastoma. Kullendorff CM, et al. **Pediatr Surg Int** 1997 Apr; 12(4):305-7

Vitamin D deficiency and osteopenia in the hemiplegic limbs of stroke patients. Sato Y, et al. **Stroke** 1996 Dec; 27(12):2183-7

[Pure motor hemiplegia with ipsilateral lingual palsy caused by pontine infarction] Aidi S, et al. **Rev Neurol (Paris)** 1996 Dec;152(12):759-61 (Eng. Abstr.) **(Fre)**

[Sturge-Weber angiomatosis responsible for hemiplegia without cerebral infarction in term pregnancy] Chabriat H, et al. **Rev Neurol (Paris)** 1996 Aug-Sep;152(8-9):536-41 (56 ref.) (Eng. Abstr.) **(Fre)**

[Ataxic crural hemiparesis caused by posterior spinal arterial infarction] Masson C, et al. **Rev Neurol (Paris)** 1997 Feb; 155(1):65-6 (Eng. Abstr.) **(Fre)**

[Temporary hemiparesis and Raynaud symptoms in eosinophilic fasciitis] Sach M, et al. **Internist (Berl)** 1997 Jul;38(7):688-91 **(Ger)**

[Expert assessment general practice: did carotid pressure trial cause a stroke?] Cyran W. **Z Arztl Fortbild (Jena)** 1995 Dec;89(8):879-82 **(Ger)**

[First manifestation of choriocarcinoma in a 24-year-old patient in the form of hemiparesis] Klare P, et al. **Zentralbl Gynakol** 1997;119(6):282-3 (Eng. Abstr.) **(Ger)**

[A 36-year-old woman with acute onset left hemiplegia and anosognosia (clinical conference)] Goto K, et al. **No To Shinkei** 1997 Mar;49(3):291-300 (Eng. Abstr.) **(Jpn)**

[A case report of alternating abducens hemiplegia with special reference to the supranuclear pathway to the facial nucleus] Horiuchi I, et al. **Rinsho Shinkeigaku** 1997 Apr; 37(4):334-7 (Eng. Abstr.) **(Jpn)**

[Progressive ataxic hemiparesis with asymmetric cortical and cerebral peduncular atrophy--report of two cases] Nishimura Y, et al. **Rinsho Shinkeigaku** 1996 Jun; 36(6):764-9 (Eng. Abstr.) **(Jpn)**

[Hemimegalocephaly-agyria as the possible cause of the development of the Lennox-Gastaut syndrome] Badalian LO, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(2):90-2 (8 ref.) **(Rus)**

[Pure motor hemiparesis caused by mesencephalic lacunar infarction (letter)] Mayer MA, et al. **Med Clin (Barc)** 1996 Nov 2;107(15):598 **(Spa)**

GENETICS

Factor V Leiden mutation: an unrecognized cause of hemiplegic cerebral palsy, neonatal stroke, and placental thrombosis. Thorarensen O, et al. **Ann Neurol** 1997 Sep; 42(3):372-5

Families linked and unlinked to chromosome 19 with familial hemiplegic migraine [editorial] Peroutka SJ. **Cephalalgia** 1996 May;16(3):138

Familial hemiplegic migraine: a clinical comparison of families linked and unlinked to chromosome 19.DMG RG. Terwindt GM, et al. **Cephalalgia** 1996 May;16(3):153-5

Focal brain dysfunction in a 41-year old man with familial alternating hemiplegia. Dangond F, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(1):35-41 (37 ref.)

A 3-Mb region for the familial hemiplegic migraine locus on 19p13.1-p13.2: exclusion of PRKCSH as a candidate gene. Dutch Migraine Genetic Research Group. Ophoff RA, et al. **Eur J Hum Genet** 1996;4(6):321-8

Reversible cerebellar perfusion in familial hemiplegic migraine [letter] Lee TG, et al. **Lancet** 1996 Nov 16; 348(9038):1383

Interictal cortical excitability to magnetic stimulation in familial hemiplegic migraine. van der Kamp W, et al. **Neurology** 1997 May;48(5):1462-4

Familial hemiplegic migraine in developmental age: report of two cases. Lendvai D, et al. **Riv Eur Sci Med Farmacol** 1996 Jul-Aug;18(4):143-7

PATHOLOGY

Disuse muscle atrophy of lower limbs in hemiplegic patients. Hachisuka K, et al. **Arch Phys Med Rehabil** 1997 Jan; 78(1):13-8

Bilateral perioral sensory symptom after unilateral stroke: does it have a localizing value? Kim JS. **J Neurol Sci** 1996 Sep 1;140(1-2):123-8

Focal status epilepticus and hemiparesis in an 8-year-old boy. Barron TF. **Semin Pediatr Neurol** 1996 Sep;3(3):187-91

HEMIPLEGIA

PHYSIOPATHOLOGY

Development and reorganization of descending motor pathways in children with hemiplegic cerebral palsy. Carr LJ. **Acta Paediatr Suppl** 1996 Oct;416:53–7

The painful hemiplegic shoulder: effects of intra-articular triamcinolone acetonide. Dekker JH, et al. **Am J Phys Med Rehabil** 1997 Jan–Feb;76(1):43–8

Hemiplegic gait. Relationships between walking speed and other temporal parameters. Roth EJ, et al. **Am J Phys Med Rehabil** 1997 Mar–Apr;76(2):128–33

Asymmetry of gait initiation in hemiparetic stroke subjects. Hesse S, et al. **Arch Phys Med Rehabil** 1997 Jul; 78(7):719–24

Transcutaneous oxygen measurement in stroke: circulatory disorder of the affected leg? Lem FC, et al. **Arch Phys Med Rehabil** 1997 Sep;78(9):998–1002

The motor syndrome associated with exaggerated inhibition within the primary motor cortex of patients with hemiparetic. Classen J, et al. **Brain** 1997 Apr;120 (Pt 4):605–19

Cervical spine movements in hemiparetic patients. Tsur A, et al. **Brain Inj** 1996 Sep;10(9):697–701

Spatial zones for muscle coactivation and the control of postural stability. Levin MF, et al. **Brain Res** 1997 May 16;757(1):43–59

Hemiconvulsion–hemiplegia–epilepsy syndrome. A clinical, electroencephalographic and neuroradiological study. Salih MA, et al. **Childs Nerv Syst** 1997 May;13(5):257–63

Anatomical and neurological correlates of acute and chronic visuospatial neglect following right hemisphere stroke. Samuelsson H, et al. **Cortex** 1997 Jun;33(2):271–85

Electrical and mechanical output of the knee muscles during isometric and isokinetic activity in stroke and healthy adults [see comments] Davies JM, et al. **Disabil Rehabil** 1996 Feb; 18(2):83–90. Comment in: Disabil Rehabil 1996 Dec;18(12):638.

Electromyographic and positional changes in the elbows of spastic hemiparetic patients during walking. Dickstein R, et al. **Electroencephalogr Clin Neurophysiol** 1996 Dec; 101(6):491–6

Electromyographic analysis of postural responses during standing leg flexion in adults with hemiparesis. Hedman LD, et al. **Electroencephalogr Clin Neurophysiol** 1997 Apr; 105(2):149–55

Medial medullary syndrome associated with patent foramen ovale in a weightlifter. Sweeney BJ, et al. **Eur Neurol** 1996; 36(6):391

Le fou rire prodromique [letter] Ertekin C, et al. **J Neurol** 1997 Apr;244(4):271–2

Impairment and recovery of left motor function in patients with right hemiplegia. Marque P, et al. **J Neurol Neurosurg Psychiatry** 1997 Jan;62(1):77–81

Analysis of ballistic movements in ataxic hemiparesis following a pontine stroke. Bartholomé E, et al. **J Neurol Sci** 1996 Aug;139(2):238–41

Gait patterns in children with hemiplegic spastic cerebral palsy [see comments] Hullin MG, et al. **J Pediatr Orthop B** 1996 Fall;5(4):247–51. Comment in: J Pediatr Orthop B 1996 Fall;5(4):223–4.

Effect of ankle–foot orthosis on active ankle moment in patients with hemiparesis. Miyazaki S, et al. **Med Biol Eng Comput** 1997 Jul;35(4):381–5

Firing up the swallowing mechanism [news; comment] Diamant NE. **Nat Med** 1996 Nov;2(11):1190–1. Comment on: Nat Med 1996 Nov;2(11):1217–24.

The cortical topography of human swallowing musculature in health and disease [see comments] Hamdy S, et al. **Nat Med** 1996 Nov;2(11):1217–24. Comment in: Nat Med 1996 Nov;2(11):1190–1.

Human cortical plasticity: functional recovery with mirror movements. Nirkko AC, et al. **Neurology** 1997 Apr; 48(4):1090–3

Interictal cortical excitability to magnetic stimulation in familial hemiplegic migraine. van der Kamp W, et al. **Neurology** 1997 May;48(5):1462–4

Audiogenic startle reflex in acute hemiplegia. Voordecker P, et al. **Neurology** 1997 Aug;49(2):470–3

Mechanisms of central motor reorganization in pediatric hemiplegic patients. Maegaki Y, et al. **Neuropediatrics** 1997 Jun;28(3):168–74

Familial hemiplegic migraine in developmental age: report of two cases. Lendvai D, et al. **Riv Eur Sci Med Farmacol** 1996 Jul–Aug;18(4):143–7

The energy cost of level walking in patients with hemiplegia. Zamparo P, et al. **Scand J Med Sci Sports** 1995 Dec; 5(6):348–52

Dynamometric assessment of the plantarflexors in hemiparetic subjects: relations between muscular, gait and clinical parameters. Nadeau S, et al. **Scand J Rehabil Med** 1997 Sep;29(3):137–46

Predominance of postural imbalance in left hemiparetic patients. Rode G, et al. **Scand J Rehabil Med** 1997 Mar; 29(1):11–6

Two forms of hemitonic seizure in patients with infantile hemiplegia and epilepsy. Adachi N, et al. **Seizure** 1997 Feb; 6(1):73–9

Localization of lesion in denial of hemiplegia after acute stroke. Ellis S, et al. **Stroke** 1997 Jan;28(1):67–71

Acute alternating hemiplegia. A case report. Tekgül H, et al. **Turk J Pediatr** 1996 Oct–Dec;38(4):521–6

[EEG anomalies in the prodromic phase of Rasmussen's syndrome. Report of two cases] Beaumanoir A, et al. **Neurophysiol Clin** 1997;27(1):25–32 (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Psychological aspects of hemiplegia. Goodman R. **Arch Dis Child** 1997 Mar;76(3):177–8

IQ and its predictors in childhood hemiplegia. Goodman R, et al. **Dev Med Child Neurol** 1996 Oct;38(10):881–90

Denial of hemiplegia: an investigation into the theories of causation. Small M, et al. **Eur Neurol** 1996;36(6):353–63

Bimanual movement coordination in spastic hemiparesis. Steenbergen B, et al. **Exp Brain Res** 1996 Jun;110(1):91–8

Rating child psychiatric caseness from detailed case histories. Goodman R, et al. **J Child Psychol Psychiatry** 1996 May; 37(4):369–79

Anticipatory responses to a self-applied load in normal subjects and hemiparetic patients. Bennis N, et al. **J Physiol Paris** 1996;90(1):27–42

Motor function in young and aged hemiplegic rats: effects of a Ginkgo biloba extract. Brailowsky S, et al. **Neurobiol Aging** 1997 Mar–Apr;18(2):219–27

Localization of lesion in denial of hemiplegia after acute stroke. Ellis S, et al. **Stroke** 1997 Jan;28(1):67–71

[Chronic dissociative hemiparesis in borderline personality disorder] Rothermundt M, et al. **Psychiatr Prax** 1996 Sep; 23(5):250–1 **(Ger)**

RADIOGRAPHY

Regional cerebral blood perfusion in children with hemiplegia: A SPECT study. Sztriha L, et al. **Neuropediatrics** 1996 Aug;27(4):178–83

RADIONUCLIDE IMAGING

Alternating hemiplegia of childhood: report of a case having a long history. Nezu A, et al. **Brain Dev** 1997 Apr; 19(3):217–21

[Scintigraphy studies of lymph flow in paralyzed upper extremities] Werner GT, et al. **Vasa** 1997;26(1):25–8 (Eng. Abstr.) **(Ger)**

REHABILITATION

The effects of an occupationally embedded exercise on bilaterally assisted supination in persons with hemiplegia. Nelson DL, et al. **Am J Occup Ther** 1996 Sep;50(8):639–46

Upper limb functional electrical stimulation for walker ambulation in hemiplegia: a case report. Weingarden HP, et al. **Am J Phys Med Rehabil** 1997 Jan–Feb;76(1):63–7

Functional electrostimulation in poststroke rehabilitation: a meta-analysis of the randomized controlled trials. Glanz M, et al. **Arch Phys Med Rehabil** 1996 Jun;77(6):549–53

Shoehorn–type ankle–foot orthoses: prediction of flexibility. Nagaya M. **Arch Phys Med Rehabil** 1997 Jan;78(1):82–4

Experience of clinical use of the Odstock dropped foot stimulator. Burridge J, et al. **Artif Organs** 1997 Mar; 21(3):254–60

Natural versus artificial sensors applied in peroneal nerve stimulation. Upshaw BJ, et al. **Artif Organs** 1997 Mar; 21(3):227–31

Gait initiation, development of a measuring device for use in a clinical environment. Dawson M, et al. **Biomed Tech (Berl)** 1996 Jul–Aug;41(7–8):213–7

Effects of electrical stimulation on flexion contractures in the hemiplegic wrist. Pandyan AD, et al. **Clin Rehabil** 1997 May;11(2):123–30

The relationship of knee muscle performance and gait in stroke patients [letter; comment] Bohannon R. **Disabil Rehabil** 1996 Dec;18(12):638. Comment on: Disabil Rehabil 1996 Feb;18(2):83–90.

Hemiplegic shoulder pain (HSP): natural history and investigation of associated features. Wanklyn P, et al. **Disabil Rehabil** 1996 Oct;18(10):497–501

Long-term unrestrained measurement of stride length and walking velocity utilizing a piezoelectric gyroscope. Miyazaki S. **IEEE Trans Biomed Eng** 1997 Aug;44(8):753–9

A quantitative approach in the treatment of hemiplegic patients using an electropneumatic platform. Pepino A, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):410–5 (9 ref.)

Gait function in spastic hemiparetic patients walking barefoot, with firm shoes, and with ankle–foot orthosis. Hesse S, et al. **Int J Rehabil Res** 1996 Jun;19(2):133–41

The effects of neuromuscular stimulation–induced muscle contraction versus elevation on hand edema in CVA patients. Faghri PD. **J Hand Ther** 1997 Jan–Mar; 10(1):29–34

Clinical evaluation of a new biofeedback standing balance training device. Lee MY, et al. **J Med Eng Technol** 1996 Mar–Apr;20(2):60–6

The development and clinical evaluation of a standing biofeedback trainer. Wong AM, et al. **J Rehabil Res Dev** 1997 Jul;34(3):322–7

Inverse relationship between sensation of effort and muscular force during recovery from pure motor hemiplegia: a single–case study. Rode G, et al. **Neuropsychologia** 1996 Feb;34(2):87–95

Use of neuromuscular electrical stimulation and [corrected] dorsal wrist splint to improve the hand function of a child with spastic hemiparesis [published erratum appears in Phys Ther 1997 Aug;77(8):859] Carmick J. **Phys Ther** 1997 Jun; 77(6):661–71

Clinical experiences with a convertible thermoplastic knee–ankle–foot orthosis for post-stroke hemiplegic patients. Kakurai S, et al. **Prosthet Orthot Int** 1996 Dec; 20(3):191–4

Self-selected walking speed in patients with hemiparesis after stroke. Witte US, et al. **Scand J Rehabil Med** 1997 Sep; 29(3):161–5

Treadmill aerobic exercise training reduces the energy expenditure and cardiovascular demands of hemiparetic gait in chronic stroke patients. A preliminary report. Macko RF, et al. **Stroke** 1997 Feb;28(2):326–30

[Biofeedback of back coupling. Theory and practice in the hemiplegic patient] Geerinckx P. **J Belge Med Phys Rehabil** 1980;3(4):280–9 **(Dut)**

[Recovery of the "instrument–hand" and the "communication–hand" in the hemiparetic child] Pisaturo C, et al. **Minerva Pediatr** 1997 Jun;49(6):261–8 (Eng. Abstr.) **(Ita)**

SURGERY

Techniques of psoas tenotomy and rectus femoris transfer: "new" operations for cerebral palsy diplegia--a description [see comments] Patrick JH. **J Pediatr Orthop B** 1996 Fall; 5(4):242–6. Comment in: J Pediatr Orthop B 1996 Fall;5(4):223–4.

THERAPY

'Botulinum toxin A in the hemiplegic upper limb: a double–blind trial' [letter; comment] Arens LJ, et al. **Dev Med Child Neurol** 1997 Jul;39(7):491–2. Comment on: Dev Med Child Neurol 1997 Mar;39(3):185–93.

Long–lasting reductions of spasticity induced by skin electrical stimulation. Dewald JP, et al. **IEEE Trans Rehabil Eng** 1996 Dec;4(4):231–42 (57 ref.)

[Clinical observation on treatment of 40 cases of apoplexy hemiplegia complicated shoulder–hand syndrome with electro–acupuncture] Guo ZX, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Nov; 15(11):646–8 (Eng. Abstr.) **(Chi)**

VETERINARY

Efficacy of prosthetic laryngoplasty with and without bilateral ventriculocordectomy as treatments for laryngeal hemiplegia in horses. Tetens J, et al. **Am J Vet Res** 1996 Nov;57(11):1668–73

Horner's syndrome and ipsilateral laryngeal hemiplegia in three cats. Holland CT. **J Small Anim Pract** 1996 Sep; 37(9):442–6

HEMIPTERA

Use of Bactimos briquets (B.t.i. formulation) combined with the backswimmer Notonecta irrorata (Hemiptera:Notonectidae) for control of mosquito larvae. Neri–Barbosa JF, et al. **J Am Mosq Control Assoc** 1997 Mar;13(1):87–9

Comparison of Perillus bioculatus and Podisus maculiventris (Hemiptera:Pentatomidae) as potential control agents of the Colorado potato beetle (Coleoptera:Chrysomelidae). Hough–Goldstein J, et al. **J Econ Entomol** 1996 Oct; 89(5):1116–23

The biology and predatory potential of notonectid bug, Enithares indica (Fabr) against mosquito larvae. Wattal S, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):633–6

ANATOMY & HISTOLOGY

Three–dimensional structure of nucleotide–bearing crossbridges in situ: oblique section reconstruction of insect flight muscle in AMPPNP at 23 degrees C. Winkler H, et al. **J Mol Biol** 1996 Nov 29;264(2):302–22

DRUG EFFECTS

Enzymatic oxidation products of allelochemicals as a basis for resistance against insects: effects on the corn leafhopper Dalbulus maidis. Dowd PF, et al. **Nat Toxins** 1996; 4(2):85–91

EMBRYOLOGY

Structure of the insect head as revealed by the EN protein pattern in developing embryos. Rogers BT, et al. **Development** 1996 Nov;122(11):3419–32

GENETICS

Genetic analysis of Triatoma infestans following insecticidal control interventions in central Bolivia. Dujardin JP, et al. **Acta Trop** 1996 May;61(3):263–6

Molecular cloning and characterization of an insect aquaporin functional comparison with aquaporin 1. Le Caherec F, et al. **Eur J Biochem** 1996 Nov 1;241(3):707–15

Patterns of postmating reproductive isolation in a newly discovered species pair, Aquarius remigis and A. remigoides (Hemiptera;Gerridae). Gallant SL, et al. **Heredity** 1997 Jun;78 (Pt 6):571–7

IMMUNOLOGY

Occupational asthma caused by hypersensitivity to ground bugs. García Lázaro MA, et al. **J Allergy Clin Immunol** 1997 Feb;99(2):267–8

MICROBIOLOGY

Attachment of Metarhizium anisopliae to the southern green stink bug Nezara viridula cuticle and fungistatic effect of cuticular lipids and aldehydes. Sosa-Gomez DR, et al. **J Invertebr Pathol** 1997 Jan;69(1):31-9

PHYSIOLOGY

Anticoagulant activity of Triatoma infestans and Panstrongylus megistus saliva (Hemiptera/Triatominae). Pereira MH, et al. **Acta Trop** 1996 May;61(3):255-61

Role of the neuroendocrine complex in the control of adult diapause in the bean bug, Riptortus clavatus. Morita A, et al. **Arch Insect Biochem Physiol** 1997;35(3):347-55

Direct evidence for the nature of the binding of mitochondria to microtubules in ovarian nutritive tubes of an hemipteran insect. Stebbings H. **Cell Tissue Res** 1997 Aug;289(2):333-7

ULTRASTRUCTURE

Electron tomography of insect flight muscle in rigor and AMPPNP at 23 degrees C. Schmitz H, et al. **J Mol Biol** 1996 Nov 29;264(2):279-301

HEMLOCK

Water hemlock (Cicuta douglasii) toxicoses in sheep: pathologic description and prevention of lesions and death. Panter KE, et al. **J Vet Diagn Invest** 1996 Oct;8(4):474-80

HEMOBILIA

Massive haemobilia after percutaneous liver biopsy in a patient with POEMS syndrome successfully treated by arterial embolization. Grieco A, et al. **Eur J Gastroenterol Hepatol** 1996 Jun;8(6):595-8 (20 ref.)

[Hemobilia. Etiopathogenic, clinical, and therapeutic considerations] Siragusa G, et al. **Minerva Chir** 1996 Oct; 51(10):861-6 (27 ref.) (Eng. Abstr.) **(Ita)**

CHEMICALLY INDUCED

Antibiotic-induced iatrogenic hemobilia. Huilgol VR, et al. **Am J Gastroenterol** 1997 Apr;92(4):706-7 (11 ref.)

Warfarin therapy complicated by recurrent hemobilia in a patient with sarcoidosis. Pollack BJ, et al. **Gastrointest Endosc** 1997 Jul;46(1):72-6

COMPLICATIONS

Bleeding causing biliary obstruction after endoscopic sphincterotomy. Mosenkis BN, et al. **Am J Gastroenterol** 1997 Apr;92(4):708-9 (5 ref.)

Endoscopic management of obstructive jaundice caused by hemobilia. Kroser J, et al. **Gastrointest Endosc** 1996 Nov; 44(5):618-9

Asymptomatic hemobilia with idiopathic thrombocytopenic purpura. Daidoh H, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1470-1

Endoscopic treatment of biliary colic resulting from hemobilia after nonoperative management of blunt hepatic injury: case report and review of the literature. Clancy TE, et al. **J Trauma** 1997 Sep;43(3):527-9 (23 ref.)

ETIOLOGY

Hemobilia: a rare complication following cholecystectomy. Jafarey AM, et al. **Endoscopy** 1997 Jan;29(1):53-4

Polyarteritis nodosa presenting with hemobilia and intestinal hemorrhage. Yazici Z, et al. **Eur Radiol** 1997;7(7):1059-61

Arterioportal fistula and hemobilia with associated acute cholecystitis: a complication of percutaneous liver biopsy. Cacho G, et al. **Hepatogastroenterology** 1996 Jul-Aug; 43(10):1020-3

Hepatoma cast obstructing common bile duct: not always a terminal event [letter] Contractor QQ, et al. **Indian J Gastroenterol** 1997 Jul;16(3):121

Hepatic artery pseudoaneurysm and hemobilia following laparoscopic cholecystectomy. Kapoor R, et al. **Indian J Gastroenterol** 1997 Jan;16(1):32-3

An unusual cause of haemobilia: biliary ascariasis. Corr P, et al. **Pediatr Radiol** 1997 Apr;27(4):348-9

[Arteriobiliary fistula as a complication of biliary surgery] Pääkkönen M, et al. **Duodecim** 1995;111(18):1780-2 **(Fin)**

[Hemobilia after laparoscopic cystectomy. Apropos of a case. Review of the literature] Kassasseya A, et al. **Ann Chir** 1997;51(2):159-62 (26 ref.) (Eng. Abstr.) **(Fre)**

[Hemobilia disclosing very small hepatocellular carcinoma ruptured into the biliary ducts] Cajot O, et al. **Gastroenterol Clin Biol** 1997;21(5):426-9 (19 ref.) (Eng. Abstr.) **(Fre)**

[Postoperative hemobilia. Apropos of a case (letter)] Mselmi A, et al. **J Chir (Paris)** 1996;133(9-10):469-70 (Eng. Abstr.) **(Fre)**

[Hemobilia in cholecystolithiasis as a rare cause of massive upper gastrointestinal hemorrhage] Ritz JP, et al. **Chirurg** 1997 Jan;68(1):87-9 (Eng. Abstr.) **(Ger)**

[Classification problems in iatrogenic hepatic traumas. 10 years of personal experience: 17 cases] Pezzullo LS, et al. **Minerva Chir** 1997 Jun;52(6):743-6 (Eng. Abstr.) **(Ita)**

[Hemobilia after percutaneous transhepatic gallbladder drainage for cholecystitis in a patient undergoing aortic valve replacement] Tago K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1020-3 (Eng. Abstr.) **(Jpn)**

[A case report of hemobilia and biliary obstruction caused by a pseudoaneurysm as a complication of percutaneous placement of Wallstent] Murayama M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):139-42 **(Jpn)**

[Aneurysm of the left hepatic artery--a rare cause of hemobilia after laparoscopic cholecystectomy: case report] Mráz P Jr, et al. **Rozhl Chir** 1996 Oct;75(10):496-8 (Eng. Abstr.) **(Slo)**

PREVENTION & CONTROL

Prevention of hemobilia during percutaneous biliary drainage: long-term follow-up. Goodwin SC, et al. **J Vasc Interv Radiol** 1997 Sep-Oct;8(5):881-3

SURGERY

Selective surgical indications for iatrogenic hemobilia. Dousset B, et al. **Surgery** 1997 Jan;121(1):37-41

Multiple intrahepatic stones caused by hemobilia in liver transplant recipients. Pitre J, et al. **Surgery** 1997 Mar; 121(3):352-4

THERAPY

Endovascular treatment with microcoils of traumatic haemobilia: case report. Celdrán A, et al. **Eur J Surg** 1995 Nov;161(11):857-8

Poly (2-hydroxyethyl methacrylate) particles for management of hemorrhage of complicated origin: treatment of hemobilia. Horák D, et al. **J Biomed Mater Res** 1996 Fall;33(3):193-7

Successful endoscopic injection sclerotherapy for bleeding from bile duct varices. Ito T, et al. **Surg Today** 1997; 27(2):174-6

[Emergency treatment of hemobilia using embolization] Abada HT, et al. **J Belge Radiol** 1996 Nov;79(5):221-3 (Eng. Abstr.) **(Fre)**

[Interventional treatment of hemobilia] Sokiranski R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):417-20 (Eng. Abstr.) **(Ger)**

VETERINARY

Pleural effusion as a complication of extrahepatic biliary tract rupture in a dog. Barnhart MD, et al. **J Am Anim Hosp Assoc** 1996 Sep-Oct;32(5):409-12

HEMOCHROMATOSIS

Physicians dumping iron. Lindenmayer JM. **Med Health R I** 1997 Aug;80(8):266-7

[Hemochromatosis, hemosiderosis] Higaki Y, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(15):487-9 (16 ref.) **(Jpn)**

[Idiopathic hemochromatosis, analysis of 19 cases] Rodríguez Cuartero A, et al. **An Med Interna** 1997 Jan;14(1):20-3 (Eng. Abstr.) **(Spa)**

[Hemochromatosis: frequent but few times diagnosed] Garassini MA, et al. **G E N** 1995 Oct-Dec;49(4):317-23 (25 ref.) **(Spa)**

BLOOD

Postsclerotherapy pigmentation. Is serum ferritin level an accurate indicator? Scott C, et al. **Dermatol Surg** 1997 Apr; 23(4):281-2; discussion 283

Clinical and biochemical abnormalities in people heterozygous for hemochromatosis [see comments] Bulaj ZJ, et al. **N Engl J Med** 1996 Dec 12;335(24):1799-805. Comment in: N Engl J Med 1996 Dec 12;335(24):1837-9.

Mixture models in haematology: a series of case studies [see comments] McLaren CE. **Stat Methods Med Res** 1996 Jun; 5(2):129-53 (83 ref.). Comment in: Stat Methods Med Res 1996 Jun;5(2):107-27.

[Study of structural transitions in erythrocyte membranes during hereditary hemochromatosis] Akoev VR, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):279-84 **(Rus)**

[A case of primary hemochromatosis with normal blood ferritin (letter)] Yela San Bernardino MC, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):219 **(Spa)**

COMPLICATIONS

Heart transplantation for end-stage heart failure caused by iron overload. Koerner MM, et al. **Br J Haematol** 1997 May;97(2):293-6

Factors affecting glucose tolerance in hereditary hemochromatosis. Hramiak IM, et al. **Clin Invest Med** 1997 Apr;20(2):110-8

Hemochromatosis arthropathy. Neumann DP. **Conn Med** 1996 Aug;60(8):465-7

Haemochromatosis presenting with loss of libido and impotence. Fisher NC, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):705-7

Diffuse hyperpigmentation in a man with diabetes. Hariharan R, et al. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):45, 49

Sustained ventricular tachycardia in cardiac hemochromatosis treated with amiodarone. Yalçinkaya S, et al. **J Electrocardiol** 1997 Apr;30(2):147-9

Combined orthotopic heart and liver transplantation for genetic hemochromatosis. Surakomol S, et al. **J Heart Lung Transplant** 1997 May;16(5):573-5

Diabetes mellitus and risk of large bowel cancer [letter; comment] Nelson R, et al. **J Natl Cancer Inst** 1997 Aug 20;89(16):1232-3. Comment on: J Natl Cancer Inst 1997 May 7;89(9):660-1.

Re: Excess risk of primary liver cancer in patients with diabetes mellitus [letter; comment] Nelson R, et al. **J Natl Cancer Inst** 1997 Feb 19;89(4):327-8. Comment on: J Natl Cancer Inst 1996 Oct 16;88(20):1472-7.

Haemochromatosis Cys282Tyr mutation in pyridoxine-responsive sideroblastic anaemia [letter; comment] Yaouanq J, et al. **Lancet** 1997 May 17; 349(9063):1475-6. Comment on: Lancet 1997 Feb 1;349(9048):296-7.

Spontaneous multiple vertebral fractures revealed primary haemochromatosis. Duquenne M, et al. **Osteoporos Int** 1996;6(4):338-40

Familial chronic fatigue. George DK, et al. **Postgrad Med J** 1997 May;73(859):311-3

Fatal Listeria meningitis, endocarditis and pericarditis in a patient with haemochromatosis. Manso C, et al. **Scand J Infect Dis** 1997;29(3):308-9 (14 ref.)

[Restrictive cardiac involvement in a patient with dyserythropoietic anemia and secondary hemochromatosis] Barriales Alvarez V, et al. **Rev Esp Cardiol** 1996 Aug; 49(8):618-20 (Eng. Abstr.) **(Spa)**

CONGENITAL

Neonatal haemochromatosis: report of a patient with favourable outcome. Müller-Berghaus J, et al. **Eur J Pediatr** 1997 Apr;156(4):296-8

DIAGNOSIS

Hepatic iron overload: diagnosis and quantification with MR imaging. Ernst O, et al. **AJR Am J Roentgenol** 1997 May; 168(5):1205-8

Screening and early detection of hemochromatosis [letter; comment] McDonnell S, et al. **Am Fam Physician** 1997 Feb 1;55(2):440-2. Comment on: Am Fam Physician 1996 Jun;53(8):2623-8, 2631-2.

Hereditary hemochromatosis: presentation and diagnosis in the 1990s. Bacon BR, et al. **Am J Gastroenterol** 1997 May; 92(5):784-9

Diabetes and epistaxis in a 57-year-old man [clinical conference] **Am J Med** 1997 Jul;103(1):74-82

Jaundice and bleeding from peripheral intravenous sites in a neonate. Neonatal hemochromatosis (idiopathic neonatal iron-storage disease). Leal-khouri S, et al. **Arch Dermatol** 1996 Dec;132(12):1507-8, 1511

Screening of patients with iron overload to identify hemochromatosis and porphyria cutanea tarda. O'Reilly FM, et al. **Arch Dermatol** 1997 Sep;133(9):1098-101

Mild liver enzyme abnormalities: eliminating hemochromatosis as cause. Witte DL. **Clin Chem** 1997 Aug; 43(8 Pt 2):1535-8 (26 ref.)

Practice guideline development task force of the College of American Pathologists. Hereditary hemochromatosis. Witte DL, et al. **Clin Chim Acta** 1996 Feb 28;245(2):139-200 (202 ref.)

Diagnosis and management of hemochromatosis. Bacon BR. **Gastroenterology** 1997 Sep;113(3):995-9 (23 ref.)

Utility of hepatic iron index in American patients with hereditary hemochromatosis: a multicenter study. Kowdley KV, et al. **Gastroenterology** 1997 Oct;113(4):1270-7

Image of the month. Marshall AT, et al. **Gastroenterology** 1997 Feb;112(2):326, 673

Diffuse hyperpigmentation in a man with diabetes. Hariharan R, et al. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):45, 49

Correlation of liver density by magnetic resonance imaging and hepatic iron levels. A noninvasive means to exclude homozygous hemochromatosis. Lawrence SP, et al. **J Clin Gastroenterol** 1996 Sep;23(2):113-7

Hemochromatosis-like arthropathy in diabetes mellitus without hemochromatosis. McCarthy GM, et al. **J Rheumatol** 1996 Aug;23(8):1453-6

Neonatal hemochromatosis: an unusual presentation of iron storage disease. Gruber KK, et al. **J S C Med Assoc** 1996 Aug;92(8):344-6

MR imaging of diffuse liver disease. Hepatic fat and iron. Siegelman ES. **Magn Reson Imaging Clin N Am** 1997 May; 5(2):347-65 (104 ref.)

Hemochromatosis [letter; comment] Colli A. **N Engl J Med** 1997 May 22;336(21):1531. Comment on: N Engl J Med 1996 Dec 12;335(24):1815.

Images in clinical medicine. Hemochromatosis [see comments] Wortsman J. **N Engl J Med** 1996 Dec 12; 335(24):1815. Comment in: N Engl J Med 1997 May 22;336(21):1531.

Hepatic iron overload in thalassemic patients: proposal and validation of an MRI method of assessment. Bonetti MG, et al. **Pediatr Radiol** 1996 Sep;26(9):650-6

[Interesting differential diagnosis. Hemochromatosis osteoarthropathy] Kittner T, et al. **Rontgenpraxis** 1996 Jan; 49(1):16-8 **(Ger)**

[Current diagnosis: hereditary metabolic diseases of the liver (primary hemochromatosis, Wilson disease)] Stremmel W. **Schweiz Rundsch Med Prax** 1996 Nov 19;85(47):1513-7 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

[Ocular side effects of deferoxamine therapy in aplastic anemia with transfusion-induced hemochromatosis] Spraul CW, et al. **Klin Monatsbl Augenheilkd** 1996 Jul;209(1):31-6 (Eng. Abstr.) **(Ger)**

HEMOCHROMATOSIS

EPIDEMIOLOGY

Prevalence of hereditary hemochromatosis in a Massachusetts corporation: is Celtic origin a risk factor? Smith BN, et al. **Hepatology** 1997 Jun;25(6):1439–46 (53 ref.)

Iron in an Australian population: too little or too much? Leggett BA. **J Gastroenterol Hepatol** 1996 Nov; 11(11):1037–9

Prevalence of hemochromatosis among first–time and repeat blood donors in Norway. Bell H, et al. **J Hepatol** 1997 Feb;26(2):272–9

Population screening for haemochromatosis: expectations based on a study of relatives of symptomatic probands [see comments] Bradley LA, et al. **J Med Screen** 1996;3(4):171–7 . Comment in: J Med Screen 1996 ;3(4):170.

ETHNOLOGY

Iron overload disorders among Hispanics--San Diego, California, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Nov 15;45(45):991–3

ETIOLOGY

Hepatocellular carcinoma in a non–cirrhotic coal miner with secondary haemochromatosis. De Tomás J, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):633–4

Defective iron homeostasis in beta 2–microglobulin knockout mice recapitulates hereditary hemochromatosis in man. Santos M, et al. **J Exp Med** 1996 Nov 1;184(5):1975–85

Haemochromatosis in a case of thalassaemia haemoglobin E disease presenting with cirrhosis of liver. Mitra R, et al. **J Indian Med Assoc** 1996 Jan;94(1):29–30

[Perinatal hemochromatosis and deforming sequelae of oligoamines: causal or casual association?] González de Dios J, et al. **An Esp Pediatr** 1997 Jun;46(6):603–6 **(Spa)**

GENETICS

Hereditary hemochromatosis: presentation and diagnosis in the 1990s. Bacon BR, et al. **Am J Gastroenterol** 1997 May; 92(5):784–9

Haplotype analysis of hemochromatosis: evaluation of different linkage–disequilibrium approaches and evolution of disease chromosomes. Ajioka RS, et al. **Am J Hum Genet** 1997 Jun;60(6):1439–47

Association mapping of disease loci, by use of a pooled DNA genomic screen. Barcellos LF, et al. **Am J Hum Genet** 1997 Sep;61(3):734–47

The significance of the 187G (H63D) mutation in hemochromatosis [letter] Beutler E. **Am J Hum Genet** 1997 Sep;61(3):762–4

Mutation analysis of the HLA–H gene in Italian hemochromatosis patients. Carella M, et al. **Am J Hum Genet** 1997 Apr;60(4):828–32

Diabetes and epistaxis in a 57–year–old man [clinical conference] **Am J Med** 1997 Jul;103(1):74–82

Tricho–hepato–enteric syndrome: further delineation of a distinct syndrome with neonatal hemochromatosis phenotype, intractable diarrhea, and hair anomalies. Verloes A, et al. **Am J Med Genet** 1997 Feb 11;68(4):391–5

High–speed DNA genotyping using microfabricated capillary array electrophoresis chips. Woolley AT, et al. **Anal Chem** 1997 Jun 1;69(11):2181–6

Clinical features of genetic hemochromatosis in women compared with men. Moirand R, et al. **Ann Intern Med** 1997 Jul 15;127(2):105–10

Factors influencing disease expression in hemochromatosis. Crawford DH, et al. **Annu Rev Nutr** 1996;16:139–60 (74 ref.)

Identification of a mouse homolog for the human hereditary haemochromatosis candidate gene. Hashimoto K, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):35–9

Inappropriately high iron regulatory protein activity in monocytes of patients with genetic hemochromatosis. Cairo G, et al. **Blood** 1997 Apr 1;89(7):2546–53

Rapid diagnosis of the HLA–H gene Cys 282 Tyr mutation in hemochromatosis by polymerase chain reaction--a very rare mutation in the Chinese population [letter] Chang JG, et al. **Blood** 1997 May 1;89(9):3492–3

Genetic and clinical description of hemochromatosis probands and heterozygotes: evidence that multiple genes linked to the major histocompatibility complex are responsible for hemochromatosis. Barton JC, et al. **Blood Cells Mol Dis** 1997;23(1):135–45; discussion 145a–b

Hemochromatosis: association of severity of iron overload with genetic markers. Barton JC, et al. **Blood Cells Mol Dis** 1996;22(3):195–204

Mutation analysis in hereditary hemochromatosis. Beutler E, et al. **Blood Cells Mol Dis** 1996;22(2):187–94; discussion 194a–194b

Localization of the hemochromatosis disease gene: linkage disequilibrium analysis using an American patient collection. Seese NK, et al. **Blood Cells Mol Dis** 1996; 22(1):36–46; discussion 47–8

Reversible severe hereditary hemochromatotic cardiomyopathy. Madani TA, et al. **Can J Cardiol** 1997 Apr;13(4):391–4

Practice guideline development task force of the College of American Pathologists. Hereditary hemochromatosis. Witte DL, et al. **Clin Chim Acta** 1996 Feb 28;245(2):139–200 (202 ref.)

Genetic hemochromatosis: pathogenesis, diagnosis, and therapy. Barisani D, et al. **Dig Dis** 1996 Sep–Oct; 14(5):304–15 (72 ref.)

Liver transplantation for hereditary hemochromatosis. Poulos JE, et al. **Dig Dis** 1996 Sep–Oct;14(5):316–22 (19 ref.)

Predictive value of family history in diagnosis of hereditary hemochromatosis. Assy N, et al. **Dig Dis Sci** 1997 Jun; 42(6):1312–5

Positional cloning strategy of the hemochromatosis gene and structural analysis of 6p21.3. Le Gall JY, et al. **DNA Seq** 1996;7(1):39–42

Utility of hepatic iron index in American patients with hereditary hemochromatosis: a multicenter study. Kowdley KV, et al. **Gastroenterology** 1997 Oct;113(4):1270–7

Clone–contig and STS maps of the hereditary hemochromatosis region on human chromosome 6p21.3–p22. Lauer P, et al. **Genome Res** 1997 May; 7(5):457–70

A 1.1–Mb transcript map of the hereditary hemochromatosis locus. Ruddy DA, et al. **Genome Res** 1997 May;7(5):441–56

A 4.5–megabase YAC contig and physical map over the hemochromatosis gene region. Burt MJ, et al. **Genomics** 1996 Apr 15;33(2):153–8

Hereditary hemochromatosis: generation of a transcription map within a refined and extended map of the HLA class I region. Totaro A, et al. **Genomics** 1996 Feb 1;31(3):319–26

Iron overload in light of the identification of a haemochromatosis gene. Hollán S. **Haematologia (Budap)** 1997;28(3):109–16 (23 ref.)

Hereditary hemochromatosis: recent advances in molecular genetics and clinical management. Camaschella C, et al. **Haematologica** 1997 Jan–Feb;82(1):77–84 (94 ref.)

The relationship between iron overload, clinical symptoms, and age in 410 patients with genetic hemochromatosis. Adams PC, et al. **Hepatology** 1997 Jan;25(1):162–6

Clinical and family studies in genetic hemochromatosis: microsatellite and HFE studies in five atypical families. Adams PC, et al. **Hepatology** 1997 Oct;26(4):986–90

No association between genetic hemochromatosis and alpha1–antitrypsin deficiency. Fargion S, et al. **Hepatology** 1996 Nov;24(5):1161–4

Excess iron induces hepatic oxidative stress and transforming growth factor beta1 in genetic hemochromatosis. Houglum K, et al. **Hepatology** 1997 Sep;26(3):605–10

Hemochromatosis and "HLA–H": definite! Jazwinska EC, et al. **Hepatology** 1997 Feb;25(2):495–6

The frequency of hemochromatosis–associated alleles is increased in British patients with sporadic porphyria cutanea tarda. Roberts AG, et al. **Hepatology** 1997 Jan; 25(1):159–61

Prevalence of hereditary hemochromatosis in a Massachusetts corporation: is Celtic origin a risk factor? Smith BN, et al. **Hepatology** 1997 Jun;25(6):1439–46 (53 ref.)

Allelic association of microsatellites of 6p in Italian hemochromatosis patients. Camaschella C, et al. **Hum Genet** 1996 Apr;97(4):476–81

Mutations in the MHC class I–like candidate gene for hemochromatosis in French patients. Borot N, et al. **Immunogenetics** 1997;45(5):320–4

Absence of the hemochromatosis gene Cys282Tyr mutation in three ethnic groups from Algeria (Mzab), Ethiopia, and Senegal. Roth M, et al. **Immunogenetics** 1997;46(3):222–5

The MHC contains multiple genes potentially relevant to hemochromatosis [editorial] Tay GK, et al. **Immunogenetics** 1997;45(5):336–40

The hemochromatosis founder mutation in HLA–H disrupts beta2–microglobulin interaction and cell surface expression. Feder JN, et al. **J Biol Chem** 1997 May 30;272(22):14025–8

Hereditary hemochromatosis. Holman JR. **J Fam Pract** 1997 Mar;44(3):304–8

Determinants of disease expression in Australian haemochromatosis patients. Crawford DH. **J Gastroenterol Hepatol** 1996 Nov;11(11):1043–5 (7 ref.)

Current status in identifying the haemochromatosis gene. Jazwinska EC. **J Gastroenterol Hepatol** 1996 Nov; 11(11):1041–3 (9 ref.)

Combined orthotopic heart and liver transplantation for genetic hemochromatosis. Surakomol S, et al. **J Heart Lung Transplant** 1997 May;16(5):573–5

Hepatic stellate cell activation in genetic haemochromatosis. Lobular distribution, effect of increasing hepatic iron and response to phlebotomy. Ramm GA, et al. **J Hepatol** 1997 Mar;26(3):584–92

The haemochromatosis gene [editorial] Riedel HD, et al.. **J Hepatol** 1997 Apr;26(4):941–4 (23 ref.)

Recombinations defining centromeric and telomeric borders for the hereditary haemochromatosis locus. Ajioka RS, et al. **J Med Genet** 1997 Jan;34(1):28–33

Global prevalence of putative haemochromatosis mutations. Merryweather–Clarke AT, et al. **J Med Genet** 1997 Apr; 34(4):275–8

Haemochromatosis: a gene at last? Robson KJ, et al. **J Med Genet** 1997 Feb;34(2):148–51

46,XX, inv(6)(p21.1p23) in a pedigree with hereditary haemochromatosis. Venditti CP, et al. **J Med Genet** 1997 Jan;34(1):24–7

Recurrence of neonatal haemochromatosis in half sibs born of unaffected mothers. Verloes A, et al. **J Med Genet** 1996 Jun;33(6):444–9

Bone and joint involvement in genetic hemochromatosis: role of cirrhosis and iron overload. Sinigaglia L, et al. **J Rheumatol** 1997 Sep;24(9):1809–13

Genetic haemochromatosis. Report of a meeting of physicians and scientists at the Royal Free Hospital School of Medicine [clinical conference] **Lancet** 1997 Jun 7; 349(9066):1688–93

Haemochromatosis gene mutation in liver disease patients [letter; comment] Aldersley MA, et al. **Lancet** 1997 Apr 5;349(9057):1025–6. Comment on: Lancet 1997 Feb 1;349(9048):296–7. Comment on: Lancet 1997 Feb 1;349(9048):321–3.

Genetic irony beyond haemochromatosis: clinical effects of HLA–H mutations [see comments] Beutler E. **Lancet** 1997 Feb 1;349(9048):296–7. Comment in: Lancet 1997 Apr 5;349(9057):1025–6. Comment in: Lancet 1997 May 17;349(9063):1475–6.

Increased frequency of the haemochromatosis Cys282Tyr mutation in sporadic porphyria cutanea tarda [see comments] Roberts AG, et al. **Lancet** 1997 Feb 1; 349(9048):321–3. Comment in: Lancet 1997 Apr 5;349(9057):1025–6.

Haemochromatosis gene mutation in hepatocellular cancer [letter] Willis G, et al. **Lancet** 1997 Aug 23;350(9077):565–6

Gene identification by chromosomal in–situ hybridization, microdissection and polymerase chain reaction amplification. Sallie R. **Med Hypotheses** 1996 Jun; 46(6):533–5

Two polymorphic repeats in the candidate region for the haemochromatosis gene. Grifa A, et al. **Mol Cell Probes** 1996 Dec;10(6):469–70

Hereditary hemochromatosis: a HpaI polymorphism within the HLA–H gene. Totaro A, et al. **Mol Cell Probes** 1997 Jun;11(3):229–30

HLA–H and associated proteins in patients with hemochromatosis. Beutler E, et al. **Mol Med** 1997 Jun; 3(6):397–402

Hemochromatosis in heterozygotes [editorial; comment] Powell LW, et al. **N Engl J Med** 1996 Dec 12; 335(24):1837–9. Comment on: N Engl J Med 1996 Dec 12;335(24):1799–1805.

Haemochromatosis and HLA–H [letter; comment] Jazwinska EC, et al. **Nat Genet** 1996 Nov;14(3):249–51. Comment on: Nat Genet 1996 Aug;13(4):399–408.

Haemochromatosis and HLA–H [letter; comment] Jouanolle AM, et al. **Nat Genet** 1996 Nov;14(3):251–2. Comment on: Nat Genet 1996 Aug;13(4):399–408.

Putting a hold on "HLA–H" [letter; comment] Mercier B, et al. **Nat Genet** 1997 Mar;15(3):234. Comment on: Nat Genet 1996 Aug;13(4):399–408.

Discovery of the hemochromatosis gene will require rethinking the regulation of iron metabolism. Fleet JC. **Nutr Rev** 1996 Sep;54(9):285–7 (6 ref.)

Familial chronic fatigue. George DK, et al. **Postgrad Med J** 1997 May;73(859):311–3

The prevalence of hereditary haemochromatosis in a diabetic population. Turnbull AJ, et al. **QJM** 1997 Apr;90(4):271–5

[Genetic hemochromatosis] Jouanolle AM, et al. **Ann Biol Clin (Paris)** 1997 May–Jun;55(3):189–93 (13 ref.) (Eng. Abstr.) **(Fre)**

[Has the hemochromatosis gene been identified? A newly discovered MHC class I gene is mutated in patients with hereditary hemochromatosis] Riedel HD, et al. **Z Gastroenterol** 1997 Feb;35(2):155–7 **(Ger)**

[Hemochromatosis arthropathy--an early manifestation of genetic hemochromatosis] Gottschalk R, et al. **Z Rheumatol** 1997 May–Jun;56(3):156–62 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Lymphocyte subsets in experimental hemochromatosis. Melo RA, et al. **Acta Haematol** 1997;98(2):72–5

Continuous low–dose subcutaneous desferrioxamine (DFO) to prevent allergic manifestations in patients with iron overload. Cianciulli P, et al. **Ann Hematol** 1996 Dec; 73(6):279–81

Anomalies of the CD8+ T cell pool in haemochromatosis: HLA–A3–linked expansions of CD8+CD28– T cells. Arosa FA, et al. **Clin Exp Immunol** 1997 Mar;107(3):548–54

Relative impact of HLA phenotype and CD4–CD8 ratios on the clinical expression of hemochromatosis. Porto G, et al. **Hepatology** 1997 Feb;25(2):397–402

Immunohistochemistry of HLA–H, the protein defective in patients with hereditary hemochromatosis, reveals unique pattern of expression in gastrointestinal tract. Parkkila S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2534–9

METABOLISM

Tricho–hepato–enteric syndrome: further delineation of a distinct syndrome with neonatal hemochromatosis phenotype, intractable diarrhea, and hair anomalies. Verloes A, et al. **Am J Med Genet** 1997 Feb 11;68(4):391–5

Case report: arthropathy as the presenting symptom in hereditary hemochromatosis. Tanglao EC, et al. **Am J Med Sci** 1996 Dec;312(6):306–9

Factors affecting glucose tolerance in hereditary hemochromatosis. Hramiak IM, et al. **Clin Invest Med** 1997 Apr;20(2):110–8

Urinary concentrating defect in experimental hemochromatosis. Zhou XJ, et al. **J Am Soc Nephrol** 1996 Jan;7(1):128–34

Contributions of the Brisbane Liver Group to knowledge of iron metabolism. Bothwell TH. **J Gastroenterol Hepatol** 1996 Nov;11(11):1025–7 (9 ref.)

Alcohol and iron: one glass of red or more? Fletcher LM. **J Gastroenterol Hepatol** 1996 Nov;11(11):1039–41 (6 ref.)
Hepatic stellate cell activation in genetic haemochromatosis. Lobular distribution, effect of increasing hepatic iron and response to phlebotomy. Ramm GA, et al. **J Hepatol** 1997 Mar;26(3):584–92
Abnormal bile acid metabolism and neonatal haemochromatosis: a subset with poor prognosis. Siafakas CG, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep; 25(3):321–6

PATHOLOGY

A reappraisal of hepatic siderosis in patients with end-stage cirrhosis: practical implications for the diagnosis of hemochromatosis. Deugnier Y, et al. **Am J Surg Pathol** 1997 Jun;21(6):669–75
Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 10–1997. A 68–year–old woman with hepatic encephalopathy [clinical conference] **N Engl J Med** 1997 Mar 27;336(13):939–47

PHYSIOPATHOLOGY

Factors affecting glucose tolerance in hereditary hemochromatosis. Hramiak IM, et al. **Clin Invest Med** 1997 Apr;20(2):110–8
Excess iron induces hepatic oxidative stress and transforming growth factor beta1 in genetic hemochromatosis. Houglum K, et al. **Hepatology** 1997 Sep;26(3):605–10
Genetic hemochromatosis in Italian patients with porphyria cutanea tarda: possible explanation for iron overload. Fargion S, et al. **J Hepatol** 1996 May;24(5):564–9

PREVENTION & CONTROL

Population screening for haemochromatosis: a unifying analysis of published intervention trials [see comments] Bradley LA, et al. **J Med Screen** 1996;3(4):178–84. Comment in: J Med Screen 1996 ;3(4):170.
Screening for haemochromatosis [editorial; comment] Edwards CQ. **J Med Screen** 1996;3(4):170. Comment on: J Med Screen 1996 ;3(4):171–7. Comment on: J Med Screen 1996 ;3(4):178–84.
Upstream like a salmon (early diagnosis of hemochromatosis) [editorial] Barlow JF. **S D J Med** 1997 Jan;50(1):7
Haemochromatosis. **Wkly Epidemiol Rec** 1996 Nov 15; 71(46):349–50 **(Eng, Fre)**

RADIOGRAPHY

Hemochromatosis arthropathy. Neumann DP. **Conn Med** 1996 Aug;60(8):465–7

SURGERY

Liver transplantation for hereditary hemochromatosis. Poulos JE, et al. **Dig Dis** 1996 Sep–Oct;14(5):316–22 (19 ref.)
Rapid development of hepatocellular siderosis after liver transplantation for neonatal hemochromatosis. Egawa H, et al. **Transplantation** 1996 Nov 27;62(10):1511–3

THERAPY

Iatrogenic ferroma: a cause of failure of serum ferritin to respond to phlebotomy. Plumb R, et al. **Am J Med** 1997 Feb;102(2):220–1
Reversible severe hereditary hemochromatotic cardiomyopathy. Madani TA, et al. **Can J Cardiol** 1997 Apr;13(4):391–4
Diagnosis and management of hemochromatosis. Bacon BR. **Gastroenterology** 1997 Sep;113(3):995–9 (23 ref.)
Hookworms to treat haemachromatosis? [letter] Simon D, et al. **Postgrad Med J** 1997 Apr;73(858):254–5

ULTRASONOGRAPHY

Images in cardiovascular medicine. Cardiac hemochromatosis. Passen EL, et al. **Circulation** 1996 Nov 1;94(9):2302–3

VETERINARY

Quantitative image analysis as an alternative to chemical analysis for follow–up of liver biopsies from a toucan with hemochromatosis. A technique with potential value for the follow–up of hemochromatosis in humans. Roels S, et al. **Anal Quant Cytol Histol** 1996 Jun;18(3):221–4

HEMOCOAGULASE see **REPTILASE**

HEMOCUPREIN see **SUPEROXIDE DISMUTASE**

HEMOCYANIN

ADMINISTRATION & DOSAGE

Effects of monophosphoryllipid–A on the immunization of mice with keyhole limpet hemocyanin– and muramyldipeptide–ganglioside Gfpt1 conjugates. Jennemann R, et al. **J Biochem (Tokyo)** 1996 Feb; 119(2):378–84

CHEMISTRY

Primary structure of hemocyanin from Palinurus vulgaris. Jekel PA, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):243–6
Amino–terminal oxygen–binding functional unit of the Rapana thomasiana grosse (gastropod) hemocyanin: carbohydrate content, monosaccharide composition and amino acid sequence studies. Stoeva S, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 May; 117(1):101–7
The binding of azide to copper–containing and cobalt–containing forms of hemocyanin from the mediterranean crab Carcinus aestuarii. Alzuet G, et al. **Eur J Biochem** 1997 Jul 15;247(2):688–94
Small–angle X–ray scattering reveals differences between the quaternary structures of oxygenated and deoxygenated tarantula hemocyanin. Decker H, et al. **FEBS Lett** 1996 Sep 16;393(2–3):226–30
Keyhole limpet hemocyanin (KLH), I: Reassociation from Immucothel followed by separation of KLH1 and KLH2. Harris JR, et al. **Micron** 1997 Feb;28(1):31–41
Keyhole limpet hemocyanin (KLH), II: Characteristic reassociation properties of purified KLH1 and KLH2. Harris JR, et al. **Micron** 1997 Feb;28(1):43–56

GENETICS

Complete amino acid sequence of dioxygen–binding functional unit of the Rapana thomasiana hemocyanin. Stoeva S, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):403–10
Primary structure of hemocyanin from Palinurus vulgaris. Jekel PA, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Oct; 115(2):243–6
Molecular cloning of hemocyanin cDNA from Penaeus vannamei (Crustacea, Decapoda): structure, evolution and physiological aspects. Sellos D, et al. **FEBS Lett** 1997 Apr 28;407(2):153–8
Developmental changes in hemocyanin expression in the Dungeness crab, Cancer magister. Durstewitz G, et al. **J Biol Chem** 1997 Feb 14;272(7):4347–50
cDNA cloning of a developmentally regulated hemocyanin subunit in the crustacean Cancer magister and phylogenetic analysis of the hemocyanin gene family. Durstewitz G, et al. **Mol Biol Evol** 1997 Mar;14(3):266–76

IMMUNOLOGY

RU–486 blocks differentially suppressive effect of stress on in vivo anti–KLH immunoglobulin response. Fleshner M, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1344–52
Tumor cell reactivity mediated by IgM antibodies in sera from melanoma patients vaccinated with GM2 ganglioside covalently linked to KLH is increased by IgG antibodies. Livingston P, et al. **Cancer Immunol Immunother** 1997 Jan; 43(6):324–30
Function of C3 in a humoral response: iC3b/C3dg bound to an immune complex generated with natural antibody and a primary antigen promotes antigen uptake and the expression of co–stimulatory molecules by all B cells, but only stimulates immunoglobulin synthesis by antigen–specific B cells. Thornton BP, et al. **Clin Exp Immunol** 1996 Jun;104(3):531–7
Immunoglobulin response to intrapulmonary immunization of asthmatics. Schuyler M, et al. **Immunology** 1997 Jun; 91(2):167–75
Lack of Th1 or Th2 polarization of CD4+ T cell response induced by particulate antigen targeted to phagocytic cells. Sedlik C, et al. **Int Immunol** 1997 Jan;9(1):91–103
TGF–beta production regulates the development of the 2,4,6–trinitrophenol–conjugated keyhole limpet hemocyanin–induced colonic inflammation in IL–2–deficient mice. Lúdvíksson BR, et al. **J Immunol** 1997 Oct 1;159(7):3622–8
Assessment of humoral immune response in mink (Mustela vison): antibody production and detection. Smits JE, et al. **J Wildl Dis** 1996 Apr;32(2):358–61
Offspring of xenogeneically–reconstituted scid/scid mice are capable of a primary xenogeneic immune response to DNP–KLH. Greenwood JD, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1–2):145–55

METABOLISM

Limulus hemocyanin, an unusual ligand for myelin basic protein from central nervous system. Gröschel–Stewart U, et al. **Cell Mol Life Sci** 1997 Apr;53(4):291–3
Levuglandin E2–protein adducts in human plasma and vasculature. Salomon RG, et al. **Chem Res Toxicol** 1997 May;10(5):536–45
The binding of azide to copper–containing and cobalt–containing forms of hemocyanin from the mediterranean crab Carcinus aestuarii. Alzuet G, et al. **Eur J Biochem** 1997 Jul 15;247(2):688–94
Influence of antibody binding on oxygen binding behavior of Panulirus interruptus hemocyanin. Perton FG, et al. **FEBS Lett** 1997 May 19;408(2):124–6
Nitrate binding to Limulus polyphemus subunit type II hemocyanin and its functional implications. Hazes B, et al. **J Mol Biol** 1996 Oct 4;262(4):532–41

PHARMACOLOGY

Limulus hemocyanin, an unusual ligand for myelin basic protein from central nervous system. Gröschel–Stewart U, et al. **Cell Mol Life Sci** 1997 Apr;53(4):291–3

THERAPEUTIC USE

A randomised phase II study of sialyl–Tn and DETOX–B adjuvant with or without cyclophosphamide pretreatment for the active specific immunotherapy of breast cancer. Miles DW, et al. **Br J Cancer** 1996 Oct;74(8):1292–6
A T helper cell 2 (Th2) immune response against non–self antigens modifies the cytokine profile of autoimmune T cells and protects against experimental allergic encephalomyelitis. Falcone M, et al. **J Exp Med** 1997 Mar 3;185(5):901–7
Antibodies against mucin–associated sialyl–Tn epitopes correlate with survival of metastatic adenocarcinoma patients undergoing active specific immunotherapy with synthetic STn vaccine. MacLean GD, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jan; 19(1):59–68
Enhancing the effect of THERATOPE STn–KLH cancer vaccine in patients with metastatic breast cancer by pretreatment with low–dose intravenous cyclophosphamide. MacLean GD, et al. **J Immunother Emphasis Tumor Immunol** 1996 Jul; 19(4):309–16

ULTRASTRUCTURE

Structure of keyhole limpet hemocyanin type 1 (KLH1) at 15 A resolution by electron cryomicroscopy and angular reconstitution. Orlova EV, et al. **J Mol Biol** 1997 Aug 22;271(3):417–37
Three–dimensional reconstruction of Limulus polyphemus hemocyanin from cryoelectron microscopy. Taveau JC, et al. **J Mol Biol** 1997 Mar 14;266(5):1002–15
Keyhole limpet hemocyanin (KLH), II: Characteristic reassociation properties of purified KLH1 and KLH2. Harris JR, et al. **Micron** 1997 Feb;28(1):43–56
Keyhole limpet hemocyanin (KLH), I: Reassociation from Immucothel followed by separation of KLH1 and KLH2. Harris JR, et al. **Micron** 1997 Feb;28(1):31–41

HEMOCYTES

Calcium homeostasis and yeast phagocytosis in hemocytes of the colonial ascidian Botryllus schlosseri. Ballarin L, et al. **Comp Biochem Physiol A Physiol** 1997 Sep; 118(1):153–8
Identification and cloning of an integrin beta subunit from hemocytes of the freshwater crayfish Pacifastacus leniusculus. Holmblad T, et al. **J Exp Zool** 1997 Feb 15; 277(3):255–61
Experimental field studies with Mya arenaria (Bivalvia) on the induction and effect of hematopoietic neoplasia. Weinberg JR, et al. **J Invertebr Pathol** 1997 Mar; 69(2):183–94

CHEMISTRY

Scavenger receptors in innate immunity. Pearson AM. **Curr Opin Immunol** 1996 Feb;8(1):20–8 (92 ref.)
Purification and characterization of a proline–rich antibacterial peptide, with sequence similarity to bactenecin–7, from the haemocytes of the shore crab, Carcinus maenas. Schnapp D, et al. **Eur J Biochem** 1996 Sep 15;240(3):532–9
Limulus factor D, a 43–kDa protein isolated from horseshoe crab hemocytes, is a serine protease homologue with antimicrobial activity. Kawabata S, et al. **FEBS Lett** 1996 Dec 2;398(2–3):146–50
A cysteine protease inhibitor stored in the large granules of horseshoe crab hemocytes: purification, characterization, cDNA cloning and tissue localization. Agarwala KL, et al. **J Biochem (Tokyo)** 1996 Jan;119(1):85–94
Tachycitin, a small granular component in horseshoe crab hemocytes, is an antimicrobial protein with chitin–binding activity. Kawabata S, et al. **J Biochem (Tokyo)** 1996 Dec; 120(6):1253–60

CLASSIFICATION

Two hemocyte populations in Triatoma infestans: ultrastructural and lectin–binding characterization. Hypša V, et al. **Folia Parasitol (Praha)** 1997;44(1):62–70

CYTOLOGY

Sub–populations of haemocytes in the adult and developing marine mussel, Mytilus edulis, identified by use of monoclonal antibodies. Dyrynda EA, et al. **Cell Tissue Res** 1997 Sep;289(3):527–36
The separation and characterisation of haemocytes from the mussel Mytilus edulis. Pipe RK, et al. **Cell Tissue Res** 1997 Sep;289(3):537–45
Evidence for circulating hemocyte proliferation in the shrimp Penaeus japonicus. Sequeira T, et al. **Dev Comp Immunol** 1996 Mar–Apr;20(2):97–104

DRUG EFFECTS

The effects of opiates and opioid neuropeptides on mosquito hemocytes. Pryor SC, et al. **Acta Biol Hung** 1995; 46(2–4):329–40
Tributyltin affects phagocytic activity of Ciona intestinalis hemocytes. Cooper EL, et al.

HEMOCYTES

Comp Biochem Physiol C Pharmacol Toxicol Endocrinol 1995 Nov;112(3):285–9

The effects of copper on actin and fibronectin organization in Mytilus galloprovincialis haemocytes. Fagotti A, et al. **Dev Comp Immunol** 1996 Nov–Dec;20(6):383–91

Production of rotenone–inactivating substance(s) by rotenone–resistant insect cell line. Yanagimoto Y, et al. **In Vitro Cell Dev Biol Anim** 1996 Jul–Aug;32(7):399–402

Peptide RGDS inhibits the fibronectin–enhanced phagocytosis of yeast cells by Galleria mellonella hemocytes in vitro. Wittwer D, et al. **J Invertebr Pathol** 1996 Sep;68(2):199–200

Induction of micronuclei in haemocytes and gill cells of zebra mussels, Dreissena polymorpha, exposed to clastogens. Mersch J, et al. **Mutat Res** 1996 Nov 4;371(1–2):47–55

Detection of micronuclei in gill cells and haemocytes of mussels exposed to benzo[a]pyrene. Venier P, et al. **Mutat Res** 1997 Apr 24;390(1–2):33–44

ENZYMOLOGY

Activation of prophenoloxidase in the plasma and haemocytes of the marine mussel Perna viridis Linnaeus. Asokan R, et al. **Dev Comp Immunol** 1997 Jan–Feb; 21(1):1–12

Peroxidase–release associated with phagocytosis in Mytilus galloprovincialis haemocytes. Torreilles J, et al. **Dev Comp Immunol** 1997 May–Jun;21(3):267–75

Hemocyte surface phenoloxidase (PO) and immune response to lipopolysaccharide (LPS) in Ceratitis capitata. Charalambidis ND, et al. **Insect Biochem Mol Biol** 1996 Sep–Oct;26(8–9):867–74

IMMUNOLOGY

Monoclonal antibodies against pupa–specific surface antigens of Sarcophaga peregrina (flesh fly) hemocytes. Hori S, et al. **Biochem Biophys Res Commun** 1997 Jul 18; 236(2):497–501

Sub–populations of haemocytes in the adult and developing marine mussel, Mytilus edulis, identified by use of monoclonal antibodies. Dyrynda EA, et al. **Cell Tissue Res** 1997 Sep;289(3):527–36

Phagocytosis of latex beads by Biomphalaria glabrata hemocytes is modulated in a strain–specific manner by adsorbed plasma components. Fryer SE, et al. **Dev Comp Immunol** 1996 Jan–Feb;20(1):23–37

LPS (lipopolysaccharide)–activated immune responses in a hemocyte cell line from Estigmene acraea (Lepidoptera). Wittwer D, et al. **Dev Comp Immunol** 1997 Jul–Aug; 21(4):323–36

Clavanins, alpha–helical antimicrobial peptides from tunicate hemocytes. Lee IH, et al. **FEBS Lett** 1997 Jan 3; 400(2):158–62

Microbial induced hemocytic immune reactions in chilopods. Nevermann L, et al. **In Vivo** 1996 Mar–Apr;10(2):161–7

Granular cells are required for encapsulation of foreign targets by insect haemocytes. Pech LL, et al. **J Cell Sci** 1996 Aug;109 (Pt 8):2053–60

Cytotoxic activity of tunicate hemocytes. Parrinello N. **Prog Mol Subcell Biol** 1996;15:190–217 (105 ref.)

METABOLISM

In vitro phagocytosis of Escherichia coli and release of lipopolysaccharide by adhering hemocytes of the silkworm, Bombyx mori. Taniai K, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):623–7

Localization of a putative inositol 1,4,5–triphosphate receptor in the Limulus granulocyte. Solon E, et al. **Dev Comp Immunol** 1997 May–Jun;21(3):277–85

In vitro activities in mussel hemocytes as biomarkers of environmental quality: a case study in the Abra Estuary (Biscay Bay). Cajaraville MP, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):253–60

Effect of PDGF and TGF–beta on the release of biogenic amines from invertebrate immunocytes and their possible role in the stress response. Ottaviani E, et al. **FEBS Lett** 1997 Feb 24;403(3):236–8

cDNA cloning of Clavanins: antimicrobial peptides of tunicate hemocytes. Zhao C, et al. **FEBS Lett** 1997 Jun 30;410(2–3):490–2

Induction of ACTH– and TNF–alpha–like molecules in the hemocytes of Calliphora vomitoria (Insecta, Diptera). Franchini A, et al. **Tissue Cell** 1996 Oct;28(5):587–92

PARASITOLOGY

Effect of fixed epimastigote forms of Trypanosoma cruzi on the hemocytes and the prophenoloxidase–activating system of the crayfish Pacifastacus leniusculus. Barracco MA, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1321–7

PATHOLOGY

Detection of mutant p53 in clam leukemia cells. Barker CM, et al. **Exp Cell Res** 1997 May 1;232(2):240–5

PHYSIOLOGY

Modulation of Crassostrea virginica hemocyte reactive oxygen species production by Listonella anguillarum. Bramble L, et al. **Dev Comp Immunol** 1997 Jul–Aug; 21(4):337–48

Isolation and identification of a plasmatocyte–spreading peptide from the hemolymph of the lepidopteran insect Pseudoplusia includens. Clark KD, et al. **J Biol Chem** 1997 Sep 12;272(37):23440–7

Mitotic activity of the hemocytes in the tick Ixodes ricinus (Acari; Ixodidae). Kuhn KH. **Parasitol Res** 1996; 82(6):511–7

ULTRASTRUCTURE

Two hemocyte populations in Triatoma infestans: ultrastructural and lectin–binding characterization. Hypša V, et al. **Folia Parasitol (Praha)** 1997;44(1):62–70

Morphological characterization of the hemocytes of the clam, Ruditapes decussatus (Mollusca: Bivalvia). López C, et al. **J Invertebr Pathol** 1997 Jan;69(1):51–7

VIROLOGY

Host haemocyte inactivation by an insect parasitoid: transient expression of a polydnavirus gene. Asgari S, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2653–62

HEMODIAFILTRATION

Prolonged artificial liver support in a child with fulminant hepatic failure. Okamoto K, et al. **ASAIO J** 1996 May–Jun; 42(3):233–5

Continuous haemofiltration and haemodiafiltration for acute renal failure in severely burned patients. Leblanc M, et al. **Burns** 1997 Mar;23(2):160–5

Continuous venovenous hemofiltration with dialysis and lactate clearance in critically ill patients [editorial; comment] Benjamin E. **Crit Care Med** 1997 Jan;25(1):4–5 . Comment on: Crit Care Med 1997 Jan;25(1):58–62.

Effect of continuous venovenous hemofiltration with dialysis on lactate clearance in critically ill patients [see comments] Levraut J, et al. **Crit Care Med** 1997 Jan;25(1):58–62. Comment in: Crit Care Med 1997 Jan;25(1):4–5.

On–line hemodiafiltration with pre– and postdilution: a comparison of efficacy. Ahrenholz P, et al. **Int J Artif Organs** 1997 Feb;20(2):81–90

Removal of constitutive and inducible nitric oxide synthase–active compounds in a modified hemodiafiltration with on–line production of substitution fluid: the contribution of convection and diffusion. Arese M, et al. **Int J Artif Organs** 1996 Dec;19(12):704–11

Cortisol and catecholamine kinetics during continuous hemodiafiltration in patients with multiple organ dysfunction syndrome. Tsubo T, et al. **Intensive Care Med** 1996 Nov;22(11):1176–8

A simple and accurate method to determine equilibrated post–dialysis urea concentration. Canaud B, et al. **Kidney Int** 1997 Jun;51(6):2000–5

Clinical usefulness of frequent short–time hemodiafiltration: trial for the effective removal of beta–2–microglobulin. Kubo S, et al. **Nephron** 1996;72(1):93–7

High–performance hemodiafiltration and blood pressure stability. Takenaka T, et al. **Nephron** 1997;75(1):30–5

Acute renal failure in patients with kidney transplant: continuous versus intermittent renal replacement therapy. Ronco C, et al. **Ren Fail** 1996 May;18(3):461–70 (36 ref.)

Can hemodialysis technique modify the hypercatabolic state? Sunder–Plassmann G, et al. **Ren Fail** 1996 May; 18(3):395–404 (70 ref.)

Should continuous renal replacement therapy be used for 'non–renal' indications in critically ill patients with shock? van Bommel EF. **Resuscitation** 1997 Jan;33(3):257–70 (124 ref.)

Intraoperative use of continuous arteriovenous hemodiafiltration in orthotopic liver transplantation. Perrigault PF, et al. **Transplant Proc** 1996 Oct;28(5):2841

[The effect of acetate–free biofiltration on anemia and use of erythropoietin] Eiselt J, et al. **Cas Lek Cesk** 1996 Aug 21;135(16):525–9 (Eng. Abstr.) **(Cze)**

ADVERSE EFFECTS

Glutamine and other amino acid losses during continuous venovenous hemodiafiltration. Novák I, et al. **Artif Organs** 1997 May;21(5):359–63

Heparin use in continuous renal replacement procedures: the struggle between filter coagulation and patient hemorrhage. van de Wetering J, et al. **J Am Soc Nephrol** 1996 Jan; 7(1):145–50

Vascular reactivity during combined ultrafiltration–hemodialysis: influence of dialysate–derived contaminants. van Kuijk WH, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2664–9

Popliteal cysts from advanced amyloidosis in long–term haemofiltration/haemodiafiltration. Dantoine T, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1512–5

INSTRUMENTATION

Urea removal by neonatal hemo(dia)filters in hyperazotemic rabbits. Gouyon JB, et al. **Intensive Care Med** 1997 Jun; 23(6):677–83

Proximally delivered dilute heparin does not improve circuit life in continuous venovenous haemodiafiltration. Leslie GD, et al. **Intensive Care Med** 1996 Nov;22(11):1261–4

[Continuous "high flux" dialysis: an effective renal replacement therapy for intensive care patients] Ronco C, et al. **Zentralbl Chir** 1997;122(5):378–82 (30 ref.) (Eng. Abstr.) **(Ger)**

METHODS

Polyacrylonitrile membrane interposition between a xenograft and an animal in fulminant liver failure. The concept of xenohemodiafiltration. Argibay PF, et al. **ASAIO J** 1996 Sep–Oct;42(5):M411–6

Albumin priming does not prolong hemofilter life. Reeves JH, et al. **ASAIO J** 1997 May–Jun;43(3):193–6

Optimization of sodium removal in paired filtration dialysis by single pool sodium and conductivity kinetic models. Di Filippo S, et al. **Blood Purif** 1997;15(1):34–44

The addition of aminoacids and phosphate to hemodiafiltration solutions in newborns with hyperammonemic coma. Fründ S, et al. **Clin Nephrol** 1996 Jul;46(1):64–6

Proximally delivered dilute heparin does not improve circuit life in continuous venovenous haemodiafiltration. Leslie GD, et al. **Intensive Care Med** 1996 Nov;22(11):1261–4

Removal of branched–chain amino acids and alpha–ketoisocaproate by haemofiltration and haemodiafiltration. Gouyon JB, et al. **J Inherit Metab Dis** 1996;19(5):610–20

Alternate repetition of short fore– and backfiltrations reduces convective albumin loss. Shinzato T, et al. **Kidney Int** 1996 Aug;50(2):432–5

An analytical solution to solute transport in continuous arterio–venous hemodiafiltration (CAVHD). Akcahuseyin E, et al. **Med Eng Phys** 1996 Jan;18(1):26–35

[Prevention and treatment of postoperative septic MOF and DIC and efficacy of blood purification] Hirasawa H, et al. **Nippon Geka Gakkai Zasshi** 1996 Dec;97(12):1079–84 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Beneficial effects of continuous hemodiafiltration after cardiac surgery in patients with chronic renal failure] Iida H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr; 45(4):550–5 (Eng. Abstr.) **(Jpn)**

[Continuous hemodiafiltration] Nikiforov IuV, et al. **Anesteziol Reanimatol** 1996 May–Jun;(3):60–3 (35 ref.) **(Rus)**

STANDARDS

Favorable effect of new artificial liver support on survival of patients with fulminant hepatic failure. Yoshiba M, et al. **Artif Organs** 1996 Nov;20(11):1169–72

Acid–base balance determination on ultrafiltrate in two–chamber technique hemodiafiltration (PFD). Ghezzi PM, et al. **Int J Artif Organs** 1995 Nov;18(11):726–30

STATISTICS & NUMERICAL DATA

[Survey on the practice of extrarenal hemofiltration in pediatrics] Gouyon JB, et al. **Arch Pediatr** 1996 Aug; 3(8):769–74 (Eng. Abstr.) **(Fre)**

HEMODIALYSIS

see related
KIDNEY, ARTIFICIAL

Comparative efficacy of hemodialysis and hemoperfusion in severe theophylline intoxication. Shannon MW. **Acad Emerg Med** 1997 Jul;4(7):674–8

Cardiac arrhythmias in patients on maintenance hemodialysis. Erem C, et al. **Acta Cardiol** 1997;52(1):25–36

Impact of hemodialysis on comprehensive ventricular repolarization. Tuncer C, et al. **Acta Cardiol** 1997; 52(3):305–12

Elimination of low–osmolality contrast media by hemodialysis. Furukawa T, et al. **Acta Radiol** 1996 Nov; 37(6):966–71

Elimination of ioversol by hemodialysis. Ueda J, et al. **Acta Radiol** 1996 Sep;37(5):826–9

Effect of CAPD and hemodialysis on parathyroid function. Malberti F, et al. **Adv Perit Dial** 1996;12:239–44

Delayed graft function after renal transplantation in patients undergoing peritoneal dialysis and hemodialysis. Pérez Fontán M, et al. **Adv Perit Dial** 1996;12:101–4

Similarities in functional state of the kidney in patients treated with CAPD and hemodialysis. van Olden RW, et al. **Adv Perit Dial** 1996;12:97–100

Clinical considerations in hemodialysis access infection. Albers FJ. **Adv Ren Replace Ther** 1996 Jul;3(3):208–17 (46 ref.)

Epidemiological perspective on infections in chronic dialysis patients. Bloembergen WE, et al. **Adv Ren Replace Ther** 1996 Jul;3(3):201–7 (35 ref.)

Blood pressure measurement in the hemodialysis setting. Bluestone PA, et al. **Adv Ren Replace Ther** 1997 Apr; 4(2):174–8 (13 ref.)

The hemodialysis patient: object of diagnosis or part of the treatment team? Burnell MS. **Adv Ren Replace Ther** 1997 Apr;4(2):145–51 (22 ref.)

Dialysis prescription and kinetics in acute renal failure. Clark WR, et al. **Adv Ren Replace Ther** 1997 Apr;4(2 Suppl 1):64–71 (44 ref.)

Use of dietetic–specific nutritional diagnostic codes in clinical reasoning relevant to the nutritional management of core clinical outcome indicators in hemodialysis patients. Kelly MP. **Adv Ren Replace Ther** 1997 Apr;4(2):125–35 (87 ref.)

Using nursing diagnoses to achieve desired outcomes for hemodialysis clients. Lobley LS. **Adv Ren Replace Ther** 1997 Apr;4(2):112–24 (28 ref.)

To dialyze or not to dialyze: an ethical and evidence–based approach to the patient with acute renal failure in the

intensive care unit. MacKay K, et al. **Adv Ren Replace Ther** 1997 Jul;4(3):288–96

Acute renal failure in the pediatric patient. Mendley SR, et al. **Adv Ren Replace Ther** 1997 Apr;4(2 Suppl 1):93–101 (29 ref.)

Nephrology pharmacy practice in the outpatient dialysis setting. Pahre S. **Adv Ren Replace Ther** 1997 Apr; 4(2):179–81

Dialysis support in the pediatric intensive care unit. Parekh RS, et al. **Adv Ren Replace Ther** 1996 Oct;3(4):326–36 (46 ref.)

African-Americans on maintenance dialysis: a review of racial differences in incidence, treatment, and survival. Price DA, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):3–12 (42 ref.)

Central venous catheters for maintenance hemodialysis: a cautionary approach. Swartz RD, et al. **Adv Ren Replace Ther** 1997 Jul;4(3):275–84 (86 ref.)

Relationship between biocompatibility and neutrophil function in hemodialysis patients. Vanholder R. **Adv Ren Replace Ther** 1996 Oct;3(4):312–4 (19 ref.)

Chloramine removal from water used in hemodialysis. Ward DM. **Adv Ren Replace Ther** 1996 Oct;3(4):337–47 (55 ref.)

The approach to anticoagulation in patients treated with extracorporeal therapy in the intensive care unit. Ward DM. **Adv Ren Replace Ther** 1997 Apr;4(2):160–73 (134 ref.)

Update on vascular access for hemodialysis. Burdick JF, et al. **Adv Surg** 1996;30:223–32 (20 ref.)

Hepatitis C antibodies in haemodialysis and pattern of end-stage renal failure in Gassim, Saudi Arabia. Soyannwo MA, et al. **Afr J Med Med Sci** 1996 Mar;25(1):13–22

A technique for inserting inadvertently removed tunneled hemodialysis catheters using existing subcutaneous tracts. Lin BH, et al. **AJR Am J Roentgenol** 1997 Oct; 169(4):1157–8

Effects of hemodialysis on left ventricular diastolic filling. Chakko S, et al. **Am J Cardiol** 1997 Jan 1;79(1):106–8

Changing perspective of carnitine function and the need for exogenous carnitine of patients treated with hemodialysis [editorial; comment] Borum PR. **Am J Clin Nutr** 1996 Dec; 64(6):976–7. Comment on: Am J Clin Nutr 1996 Dec;64(6):922–7.

L-carnitine and acetyl-L-carnitine status during hemodialysis with acetate in humans: a kinetic analysis [see comments] Jackson JM, et al. **Am J Clin Nutr** 1996 Dec; 64(6):922–7. Comment in: Am J Clin Nutr 1996 Dec;64(6):976–7.

Use of bioelectrical impedance analysis measurements in the clinical management of patients undergoing dialysis. Kushner RF, et al. **Am J Clin Nutr** 1996 Sep;64(3 Suppl):503S–509S (58 ref.)

Racial group differences in plasma concentrations of antioxidant vitamins and carotenoids in hemodialysis patients. Rock CL, et al. **Am J Clin Nutr** 1997 Mar; 65(3):844–50

Patterns of hepatitis C viremia in patients receiving hemodialysis. Umlauft F, et al. **Am J Gastroenterol** 1997 Jan;92(1):73–8

More information on vancomycin clearance by new hemodialysis membranes [letter; comment] Mueller BA, et al. **Am J Health Syst Pharm** 1996 Jun 1;53(11):1339–40, 1348. Comment on: Am J Health Syst Pharm 1995 Dec 15;52(24):2794–6.

Interaction between hypertension and other cardiovascular risk factors in survival of hemodialyzed patients. Kimura G, et al. **Am J Hypertens** 1996 Oct;9(10 Pt 1):1006–12

A longitudinal study on the effect of nifedipine therapy and its discontinuation on [Ca2+]i and proliferation of B lymphocytes of dialysis patients. Alexiewicz JM, et al. **Am J Kidney Dis** 1997 Feb;29(2):233–8

Effect of bicarbonate administration on plasma potassium in dialysis patients: interactions with insulin and albuterol. Allon M, et al. **Am J Kidney Dis** 1996 Oct;28(4):508–14

Prognostic value of serum cardiac troponin I and T in chronic dialysis patients: a 1-year outcomes analysis. Apple FS, et al. **Am J Kidney Dis** 1997 Mar;29(3):399–403

30 years of dialytic therapy: an overview. Avram MM. **Am J Kidney Dis** 1996 Dec;28(6):907–9

High C-reactive protein is a strong predictor of resistance to erythropoietin in hemodialysis patients. Bárány P, et al. **Am J Kidney Dis** 1997 Apr;29(4):565–8

Prediction of early death in end-stage renal disease patients starting dialysis. Barrett BJ, et al. **Am J Kidney Dis** 1997 Feb;29(2):214–22

The relationship of recirculation to access blood flow. Besarab A, et al. **Am J Kidney Dis** 1997 Feb;29(2):223–9

Treatment of acute methanol intoxication with hemodialysis using an ethanol-enriched, bicarbonate-based dialysate. Chow MT, et al. **Am J Kidney Dis** 1997 Oct;30(4):568–70

Ambulatory blood pressure monitoring in dialysis patients and estimation of mean interdialytic blood pressure. Coomer RW, et al. **Am J Kidney Dis** 1997 May; 29(5):678–84

Biochemical aberrations in a dialysis patient following parathyroidectomy. Cruz DN, et al. **Am J Kidney Dis** 1997 May;29(5):759–62 (6 ref.)

Screening for extreme postdialysis urea rebound using the Smye method: patients with access recirculation identified when a slow flow method is not used to draw the postdialysis blood. Daugirdas JT, et al. **Am J Kidney Dis** 1996 Nov;28(5):727–31

Hemodialysis patient-assessed functional health status predicts continued survival, hospitalization, and dialysis-attendance compliance. DeOreo PB. **Am J Kidney Dis** 1997 Aug;30(2):204–12

Discontinuing dialysis in persistent vegetative state: the roles of autonomy, community, and professional moral agency. Eiser AR, et al. **Am J Kidney Dis** 1997 Aug;30(2):291–6

The safety of intravenous iron dextran in hemodialysis patients. Fishbane S, et al. **Am J Kidney Dis** 1996 Oct; 28(4):529–34

A 6-month study of low-dose recombinant human erythropoietin alone and in combination with androgens for the treatment of anemia in chronic hemodialysis patients. Gaughan WJ, et al. **Am J Kidney Dis** 1997 Oct; 30(4):495–500

Ambulatory blood pressure monitoring in renal dialysis and transplant patients. Goldsmith DJ, et al. **Am J Kidney Dis** 1997 Apr;29(4):593–600

Clinical outcome relative to the dose of dialysis is not what you think: the fallacy of the mean [editorial] Gotch FA, et al. **Am J Kidney Dis** 1997 Jul;30(1):1–15 (32 ref.)

Proximal calciphylaxis in four insulin-requiring diabetic hemodialysis patients [letter; comment] Handa SP, et al. **Am J Kidney Dis** 1997 May;29(5):812. Comment on: Am J Kidney Dis 1996 Sep;28(3):409–14.

Development of systemic lupus erythematosus in a male patient after 14 years on hemodialysis. Al-Hawas F, et al. **Am J Kidney Dis** 1997 Apr;29(4):631–2

Gynecologic and reproductive issues in women on dialysis. Holley JL, et al. **Am J Kidney Dis** 1997 May;29(5):685–90

Effect of recombinant human erythropoietin on lymphocyte phenotyping and phagocyte activity in hemodialysis patients. Huraib S, et al. **Am J Kidney Dis** 1997 Jun; 29(6):866–70

Hemodialysis alternative with ascites ultrafiltration for an end-stage renal failure patient associated with tense ascites secondary to decompensated liver cirrhosis. Hwang JC, et al. **Am J Kidney Dis** 1996 Dec;28(6):899–903

Uremia therapy in patients with end-stage renal disease and human immunodeficiency virus infection: has the outcome changed in the 1990s? Ifudu O, et al. **Am J Kidney Dis** 1997 Apr;29(4):549–52

Elimination study of silver in a hemodialyzed burn patient treated with silver sulfadiazine cream. Iwasaki S, et al. **Am J Kidney Dis** 1997 Aug;30(2):287–90

A critical evaluation of ultrasound measurement of inferior vena cava diameter in assessing dry weight in normotensive and hypertensive hemodialysis patients [see comments] Katzarski KS, et al. **Am J Kidney Dis** 1997 Oct;30(4):459–65 . Comment in: Am J Kidney Dis 1997 Oct;30(4):577–8.

Determinants of albumin concentration in hemodialysis patients. Kaysen GA, et al. **Am J Kidney Dis** 1997 May; 29(5):658–68

Hypertension in hemodialysis patients: more questions than answers [editorial; comment] Kirchner KA. **Am J Kidney Dis** 1997 Oct;30(4):577–8. Comment on: Am J Kidney Dis 1997 Oct;30(4):459–65. Comment on: Am J Kidney Dis 1997 Oct;30(4):466–74.

Antibiotic prophylaxis for hemodialysis access placement [editorial; comment] Kovalik EC, et al. **Am J Kidney Dis** 1997 Sep;30(3):448. Comment on: Am J Kidney Dis 1997 Sep;30(3):343–8.

Use of low-dose low molecular weight heparin in hemodialysis. Lai KN, et al. **Am J Kidney Dis** 1996 Nov; 28(5):721–6

Correction of hypercalcemia and hypophosphatemia by hemodialysis using a conventional, calcium-containing dialysis solution enriched with phosphorus. Leehey DJ, et al. **Am J Kidney Dis** 1997 Feb;29(2):288–90

Multidisciplinary predialysis programs: quantification and limitations of their impact on patient outcomes in two Canadian settings. Levin A, et al. **Am J Kidney Dis** 1997 Apr;29(4):533–40

Pulse oxymetry evaluation of oxygen saturation in the upper extremity with an arteriovenous fistula before and during hemodialysis. Lin G, et al. **Am J Kidney Dis** 1997 Feb; 29(2):230–2

Hemodialysis access blood flow rates can be measured by a differential conductivity technique and are predictive of access clotting. Lindsay RM, et al. **Am J Kidney Dis** 1997 Oct;30(4):475–82

Effects of hypervolemia on interdialytic hemodynamics and blood pressure control in hemodialysis patients [see comments] Luik AJ, et al. **Am J Kidney Dis** 1997 Oct; 30(4):466–74. Comment in: Am J Kidney Dis 1997 Oct;30(4):577–8.

Long-term vascular access for hemodialysis using silicon dual-lumen catheters with guidewire replacement of catheters for technique salvage. McLaughlin K, et al. **Am J Kidney Dis** 1997 Apr;29(4):553–9

Hypertension in the hemodialysis population [letter; comment] Mailloux LU. **Am J Kidney Dis** 1997 May; 29(5):811–2. Comment on: Am J Kidney Dis 1996 Nov;28(5):737–40.

PD or not PD? That is the question [editorial; comment] Maiorca R, et al. **Am J Kidney Dis** 1997 Sep;30(3):445–7 . Comment on: Am J Kidney Dis 1997 Sep;30(3):334–42.

Quality of life in patients on chronic dialysis: self-assessment 3 months after the start of treatment. The Necosad Study Group. Merkus MP, et al. **Am J Kidney Dis** 1997 Apr; 29(4):584–92

Blood volume changes during three different profiles of dialysate sodium variation with similar intradialytic sodium balances in chronic hemodialyzed patients. Movilli E, et al. **Am J Kidney Dis** 1997 Jul;30(1):58–63

Echo color Doppler imaging of carotid vessels in hemodialysis patients: evidence of high levels of atherosclerotic lesions. Pascazio L, et al. **Am J Kidney Dis** 1996 Nov;28(5):713–20

Prospective analysis of the factors influencing the antibody response to hepatitis B vaccine in hemodialysis patients. Peces R, et al. **Am J Kidney Dis** 1997 Feb;29(2):239–45

Assessing health and quality of life outcomes in dialysis: a report on an Institute of Medicine workshop. Rettig RA, et al. **Am J Kidney Dis** 1997 Jul;30(1):140–55 (85 ref.)

Bacterial endocarditis in hemodialysis patients. Robinson DL, et al. **Am J Kidney Dis** 1997 Oct;30(4):521–4

Low whole blood and erythrocyte levels of glutathione in hemodialysis and peritoneal dialysis patients. Ross EA, et al. **Am J Kidney Dis** 1997 Oct;30(4):489–94

Patient assessments of adequacy of dialysis and protein nutrition. Sehgal AR, et al. **Am J Kidney Dis** 1997 Oct; 30(4):514–20

Prevalence, recognition, and implications of mental impairment among hemodialysis patients. Sehgal AR, et al. **Am J Kidney Dis** 1997 Jul;30(1):41–9

Recirculation, urea disequilibrium, and dialysis efficiency: peripheral arteriovenous versus central venovenous vascular access. Sherman RA, et al. **Am J Kidney Dis** 1997 Apr;29(4):479–89 (38 ref.)

Postdialysis fatigue. Sklar AH, et al. **Am J Kidney Dis** 1996 Nov;28(5):732–6

Eradication of Helicobacter pylori in patients with end-stage renal disease under dialysis treatment. Tamura H, et al. **Am J Kidney Dis** 1997 Jan;29(1):86–90

Carbamylated hemoglobin in hemodialysis patients. Tarif N, et al. **Am J Kidney Dis** 1997 Sep;30(3):361–5

Resistance to recombinant erythropoietin in a hemodialysis patient with heterozygous hemoglobinopathy J-Meinung. Tarng DC, et al. **Am J Kidney Dis** 1997 May;29(5):769–72 (26 ref.)

Nandrolone decanoate reduces serum lipoprotein(a) concentrations in hemodialysis patients. Teruel JL, et al. **Am J Kidney Dis** 1997 Apr;29(4):569–75

Dialysis-induced serum factors inhibit adherence of monocytes and granulocytes to adult human endothelial cells. Thylén P, et al. **Am J Kidney Dis** 1997 Jan;29(1):78–85

Growth rates in pediatric dialysis patients and renal transplant recipients. Turenne MN, et al. **Am J Kidney Dis** 1997 Aug; 30(2):193–203

Effects of antiplatelet drugs on dialysis-associated platelet deposition in polytetrafluoroethylene grafts. Windus DW, et al. **Am J Kidney Dis** 1997 Apr;29(4):560–4

Vascular access survival among incident hemodialysis patients in the United States. Woods JD, et al. **Am J Kidney Dis** 1997 Jul;30(1):50–7

Preoperative vancomycin prophylaxis decreases incidence of postoperative hemodialysis vascular access infections [see comments] Zibari GB, et al. **Am J Kidney Dis** 1997 Sep; 30(3):343–8. Comment in: Am J Kidney Dis 1997 Sep;30(3):448.

Time course of the effect of nifedipine therapy and its discontinuation on [Ca2+]i and phagocytosis of polymorphonuclear leukocytes from hemodialysis patients. Alexiewicz JM, et al. **Am J Nephrol** 1997;17(1):12–6

Serum bicarbonate is an independent determinant of protein catabolic rate in chronic hemodialysis. Bastani B, et al. **Am J Nephrol** 1996;16(5):382–5

Ketanserin and erythropoiesis in hemodialysis patients with polycystic kidneys [letter] Borawski J, et al. **Am J Nephrol** 1996;16(5):451–2

Effects of conventional vs. low-molecular-weight heparin on lipid profile in hemodialysis patients. Elisaf MS, et al. **Am J Nephrol** 1997;17(2):153–7

Successful therapy of tuberculosis in hemodialysis patients. al-Homrany M. **Am J Nephrol** 1997;17(1):32–5

Long-term effect of intravenous calcitriol on the treatment of severe hyperparathyroidism, parathyroid gland mass and bone mineral density in haemodialysis patients. Huraib S, et al. **Am J Nephrol** 1997;17(2):118–23

Correlates of vascular access and nonvascular access-related hospitalizations in hemodialysis patients. Ifudu O, et al. **Am J Nephrol** 1996;16(2):118–23

Do increased plasma endothelin levels correlate with clinical parameters of hemodialysis patients? A preliminary study [letter] Karayalcin U, et al. **Am J Nephrol** 1997;17(1):100–1

Helicobacter pylori and uremic gastritis: a histopathologic study and a correlation with endoscopic and bacteriologic findings. Moustafa FE, et al. **Am J Nephrol** 1997; 17(2):165–71

Antibody level after hepatitis B vaccination in hemodialysis patients: influence of hepatitis C virus infection. Navarro JF, et al. **Am J Nephrol** 1996;16(2):95–7

Tumoral calcinosis in patients on hemodialysis. Case report and review of the literature. Pečovnik-Balon B, et al. **Am J Nephrol** 1997;17(1):93–5 (16 ref.)

Neutral-lipid transfers and cholesteryl ester transfer protein in hemodialyzed patients. Reade V, et al. **Am J Nephrol** 1996;16(5):394–401

How erythropoietin affects bone marrow of uremic patients. Sikole A, et al. **Am J Nephrol** 1997;17(2):128–36

Mathematical approach for estimating iron needs in hemodialysis patients on erythropoietin therapy. Tarng DC, et al. **Am J Nephrol** 1997;17(2):158–64

Vector autoregressive modeling for analyzing feedback

regulation between heart rate and blood pressure. Matsukawa S, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H478–86

Balloon versus patch angioplasty as an adjuvant treatment to surgical thrombectomy of hemodialysis grafts. Bitar G, et al. **Am J Surg** 1997 Aug;174(2):140–2

Pheochromocytoma, chronic renal insufficiency, and hemodialysis: a combination leading to a diagnostic and therapeutic dilemma. Box JC, et al. **Am Surg** 1997 Apr; 63(4):314–6

Catheter-related bacteremia and outcome of attempted catheter salvage in patients undergoing hemodialysis. Marr KA, et al. **Ann Intern Med** 1997 Aug 15;127(4):275–80

Rationale for the use of a low molecular weight heparin during hemodialysis with polysulphone membrane in uremic patients. Moia M, et al. **Ann Ital Med Int** 1997 Apr–Jun;12(2):67–71

Effect of intermittent hemodialysis on nondepolarizing skeletal muscle relaxants. Cerulli J, et al. **Ann Pharmacother** 1997 May;31(5):635–7

Results of valve replacement with mechanical and biological prostheses in chronic renal dialysis patients. Lucke JC, et al. **Ann Thorac Surg** 1997 Jul;64(1):129–32; discussion 132–3

Hepatitis C virus infection in two groups of paediatric patients: one maintained on haemodialysis and the other on continuous ambulatory peritoneal dialysis. al-Mugeiren M, et al. **Ann Trop Paediatr** 1996 Dec;16(4):335–9

Acute perigraft seroma simulating anastomotic bleeding of a PTFE graft applied as an arteriovenous shunt for hemodialysis. Eid A, et al. **Ann Vasc Surg** 1996 May; 10(3):290–1

Strategies to increase the use of autogenous arteriovenous fistula in end-stage renal disease. Miller A, et al. **Ann Vasc Surg** 1997 Jul;11(4):397–405

Superior patency of perforating antecubital vein arteriovenous fistulae for hemodialysis. Sparks SR, et al. **Ann Vasc Surg** 1997 Mar;11(2):165–7

Pharmacokinetics of fleroxacin after multiple oral dosing in patients receiving regular hemodialysis. Uehlinger DE, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1903–9

Serum concentration of the aminopropeptide of type I procollagen in patients on haemo- and peritoneal dialysis. Jensen PB, et al. **APMIS** 1997 May;105(5):371–7

A prospective study of risk factors and decision making in discontinuation of dialysis. Bajwa K, et al. **Arch Intern Med** 1996 Dec 9–23;156(22):2571–7

Effect of chronic renal hemodialysis on serum total, free and acyl carnitine concentrations in adult chronic pyelonephritis patients. Alhomida AS. **Arch Med Res** 1997 Spring;28(1):101–7

Does greater pediatric experience influence treatment choices in chronic disease management? Dialysis modality choice for children with end-stage renal disease. Furth SL, et al. **Arch Pediatr Adolesc Med** 1997 Jun;151(6):545–50

Effects of recombinant human erythropoietin and exercise training on exercise capacity in hemodialysis patients. Akiba T, et al. **Artif Organs** 1995 Dec;19(12):1262–8

The inferior vena cava diameter as a marker of dry weight in chronic hemodialyzed patients. Ando Y, et al. **Artif Organs** 1995 Dec;19(12):1237–42

In vivo evaluation of platelet activation by different cellulosic membranes. Cases A, et al. **Artif Organs** 1997 Apr; 21(4):330–4

Determinants of ammonia clearance by hemodialysis. Cordoba J, et al. **Artif Organs** 1996 Jul;20(7):800–3

Influence of dialysis membranes on interleukin-1 beta and interleukin-1 receptor antagonist production by peripheral blood mononuclear cells. Higuchi T, et al. **Artif Organs** 1997 Apr;21(4):265–71

Polyurethane catheters for long-term hemodialysis access. Hirsch DJ, et al. **Artif Organs** 1997 May;21(5):349–54

Dilemma of membrane biocompatibility and reuse. Klinkmann H, et al. **Artif Organs** 1996 May;20(5):426–32 (57 ref.)

A personal experience with hemodialysis: 1966 to 1991. Lundin AP. **Artif Organs** 1996 Dec;20(12):1330–2

Generation of nitrate during dialysis as a measure of nitric oxide synthesis. Mårtensson L, et al. **Artif Organs** 1997 Feb;21(2):163–7

Inconsequence of membrane choice in acute renal failure? Mujais SK, et al. **Artif Organs** 1996 May;20(5):454–5 (10 ref.)

Potential hazards of deionization systems used for water purification in hemodialysis [letter] Polaschegg HD. **Artif Organs** 1997 Jan;21(1):86

Metabolic acidosis in hemodialysis patients: a study of prevalence and factors affecting intradialytic bicarbonate gain. Sepandj F, et al. **Artif Organs** 1996 Sep;20(9):976–80

Clinical use of omniflow vascular graft as arteriovenous bridging graft for hemodialysis. Wang SS, et al. **Artif Organs** 1996 Dec;20(12):1278–81

Soluble TNF alpha receptors are increased in chronic renal insufficiency and hemodialysis and inhibit neutrophil priming by TNF alpha. Ward R, et al. **Artif Organs** 1996 May;20(5):390–5

Blood density monitoring during dialysis. Yamauchi T, et al. **Artif Organs** 1996 Sep;20(9):981–5

Dialysis clearance of buflomedil in hemodialysed patients. Rey E, et al. **Arzneimittelforschung** 1996 May;46(5):492–5

Simplified measurement of intra-access pressure. Besarab A, et al. **ASAIO J** 1996 Sep–Oct;42(5):M682–7

Differential glucocorticoid responsiveness of hemodialysis patients' lymphocytes. Briggs WA, et al. **ASAIO J** 1997 Jan–Feb;43(1):31–4

Coronary revascularization in patients on dialysis. What treatment option should we choose? Cruz DN, et al. **ASAIO J** 1996 May–Jun;42(3):139–41 (91 ref.)

Quantitative detection of hepatitis C virus RNA in patients undergoing hemodialysis. de Medina M, et al. **ASAIO J** 1997 Jan–Feb;43(1):19–22

Use of bioelectric impedance analysis and dual-energy X-ray absorptiometry for monitoring the nutritional status of dialysis patients. Dumler F. **ASAIO J** 1997 May–Jun; 43(3):256–60 (38 ref.)

Pharmacokinetics of imipenem and cilastatin during continuous venovenous hemodialysis in patients who are critically ill. Hashimoto S, et al. **ASAIO J** 1997 Jan–Feb; 43(1):84–8

Clinical experience with an anatomic snuff box arteriovenous fistula in hemodialysis patients. Horimi H, et al. **ASAIO J** 1996 May–Jun;42(3):177–80

Anemia severity and missed dialysis treatments in erythropoietin-treated hemodialysis patients. Ifudu O, et al. **ASAIO J** 1996 May–Jun;42(3):146–9

Extracellular and intracellular fluid volume monitoring during dialysis by multifrequency impedancemetry. Jaffrin MY, et al. **ASAIO J** 1996 Sep–Oct;42(5):M533–8

Validation of a novel ultrasound dilution method to measure cardiac output during hemodialysis. Kisloukhine VV, et al. **ASAIO J** 1996 Sep–Oct;42(5):M906–7

Dialyzers and dialysis membranes. Research directions [editorial] Leypoldt JK. **ASAIO J** 1996 May–Jun; 42(3):133–5 (24 ref.)

Validation of body composition assessment techniques in the dialysis population. Lukaski HC. **ASAIO J** 1997 May–Jun; 43(3):251–5 (31 ref.)

The impact of co-morbid risk factors at the start of dialysis upon the survival of ESRD patients. Mailloux LU, et al. **ASAIO J** 1996 May–Jun;42(3):164–9

Quantity of dialysis: quality of life--what is the relationship? Morton AR, et al. **ASAIO J** 1996 Sep–Oct;42(5):M713–7

Has peritoneal dialysis peaked? The impact of the CANUSA study. The Canadian-USA Multicenter study [editorial] Nolph KD. **ASAIO J** 1996 May–Jun;42(3):136–8

Assessment of total body water in hemodialysis patients by a single oral dose of antipyrine. Odar-Cederlöf I, et al. **ASAIO J** 1996 Jul–Aug;42(4):271–4

The site of injection affects erythropoietin levels during dialysis. Petersen J, et al. **ASAIO J** 1996 Jul–Aug; 42(4):263–5

Erythropoietin can be administered during dialysis. A kinetic analysis. Petersen J, et al. **ASAIO J** 1996 Jan–Feb; 42(1):27–33

The effect of parathyroidectomy on hematocrit and erythropoietin dose in patients on hemodialysis. Rault R, et al. **ASAIO J** 1996 Sep–Oct;42(5):M901–3

Hemodialysis access flow measurement. Comparison of ultrasound dilution and duplex ultrasonography. Sands J, et al. **ASAIO J** 1996 Sep–Oct;42(5):M899–901

Access flow measured during hemodialysis. Sands J, et al. **ASAIO J** 1996 Sep–Oct;42(5):M530–2

Bioincompatible membranes place patients with acute renal failure at increased risk of infection [letter; comment] Shaldon S. **ASAIO J** 1996 Nov–Dec;42(6):1032–3. Comment on: ASAIO J 1995 Jul–Sep;41(3):M709–12.

A new blood compatible and permselective hollow fiber membrane for hemodialysis. Yamashita S, et al. **ASAIO J** 1996 Nov–Dec;42(6):1019–26

On the usefulness of glycylglycine in hemodialysis and peritoneal dialysis solutions. Yatzidis H, et al. **ASAIO J** 1996 Nov–Dec;42(6):984–92

Hyperhomocysteinemia, hyperfibrinogenemia, and lipoprotein (a) excess in maintenance dialysis patients: a matched case–control study. Bostom AG, et al. **Atherosclerosis** 1996 Aug 23;125(1):91–101

Folate status is the major determinant of fasting total plasma homocysteine levels in maintenance dialysis patients. Bostom AG, et al. **Atherosclerosis** 1996 Jun; 123(1–2):193–202

Susceptibility of VLDL to oxidation in patients on regular haemodialysis. McEneny J, et al. **Atherosclerosis** 1997 Mar 21;129(2):215–20

Atherogenic lipoprotein changes in the absence of hyperlipidemia in patients with chronic renal failure treated by hemodialysis. Shoji T, et al. **Atherosclerosis** 1997 Jun; 131(2):229–36

Oxidation of low density lipoprotein in hemodialysis patients: effect of dialysis and comparison with matched controls. Westhuyzen J, et al. **Atherosclerosis** 1997 Mar 21; 129(2):199–205

High density lipoprotein (HDL) particle composition in patients with end stage renal failure (ESRF) on chronic dialysis. Lee P, et al. **Aust N Z J Med** 1997 Jun;27(3):285–93

Modulation of ouabain sensitive sodium potassium pump of erythrocytes from patients with chronic renal failure: role of acute hemodialysis. Prasad R, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1087–94

Thyroid function and plasma selenium in chronic uremic patients on hemodialysis treatment. Napolitano G, et al. **Biol Trace Elem Res** 1996 Dec;55(3):221–30

Nutritional status in chronic hemodialysis patients. Komindr S, et al. **Biomed Environ Sci** 1996 Sep;9(2–3):256–62

Dynamical control of the dialysis process. Part I: Structural considerations and first mathematical approach. Scharfetter H, et al. **Biomed Tech (Berl)** 1996 Jul–Aug;41(7–8):196–202

Erythropoietin and cardiovascular risk. Allegra V, et al. **Blood Purif** 1995 Nov–Dec;13(6):301–13

Metabolic acidosis and nutrition in dialysis patients. Bergström J. **Blood Purif** 1995 Nov–Dec;13(6):361–7 (26 ref.)

Expression of adhesion molecules and activation markers on lymphocytes and monocytes during hemodialysis. Braun N. **Blood Purif** 1997;15(2):61–76

Hemostatic and fibrinolytic response to desmopressin in uremic patients. Chen KS, et al. **Blood Purif** 1997; 15(2):84–91

Quantification of hemodialysis: analysis of methods and the relevance to patient outcome. Clark WR, et al. **Blood Purif** 1997;15(2):92–111 (73 ref.)

Early use of the Gore-Tex Stretch Graft. Dawidson IJ, et al. **Blood Purif** 1996;14(5):337–44

Determining the adequacy of sodium balance in hemodialysis using a kinetic model. Di Filippo S, et al. **Blood Purif** 1996; 14(6):431–6

Causes and interventions for malnutrition in patients undergoing maintenance dialysis. Fouque D. **Blood Purif** 1997;15(2):112–20 (61 ref.)

Local fibrinolysis in native arteriovenous fistulas of haemodialysis patients. Haznedaroğlu IC, et al. **Blood Purif** 1996;14(3):227–33

Assessment of the nutritional state of dialysis patients. Kerr PG, et al. **Blood Purif** 1996;14(5):382–7 (25 ref.)

Influence of erythropoietin treatment on dialyzer reuse. Kes P, et al. **Blood Purif** 1997;15(2):77–83

Blood purification procedures for acute renal failure: convenient strategy related to clinical conditions. Meloni C, et al. **Blood Purif** 1996;14(3):242–8

Lipoprotein abnormalities in chronic renal failure and dialysis patients. Monzani G, et al. **Blood Purif** 1996;14(3):262–72

Serum soluble interleukin 2 receptor in hemodialysis patients treated with recombinant human erythropoietin. Sennesael JJ, et al. **Blood Purif** 1995 Nov–Dec;13(6):347–56

Two-pool versus single-pool models in the determination of urea kinetic parameters. Vanholder R, et al. **Blood Purif** 1996;14(6):437–50

Antioxidant enzymes--superoxide dismutase and glutathione peroxidase--in haemodialyzed patients. Zima T, et al. **Blood Purif** 1996;14(3):257–61

Retrospective study on the usefulness of radius and lumbar bone density in the separation of hemodialysis patients with fractures from those without fractures. Yamaguchi T, et al. **Bone** 1996 Nov;19(5):549–55

Is the response to rhGH in haemodialysis patients less effective than in patients with chronic renal failure? Société de Néphrologie Pédiatrique. Cochat P, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:21–2

Can recombinant human growth hormone (rhGH) improve the adequacy of dialysis (KT/V)? Fischbach M. **Br J Clin Pract Symp Suppl** 1996 Aug;85:52–3

What are the clinical benefits of correcting the catabolic state in haemodialysis patients? Jensen PB, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:47–51

The influence of growth hormone treatment on bone metabolism in dialysis patients. Sieniawska M, et al. **Br J Clin Pract Symp Suppl** 1996 Aug;85:61–3

Male reproductive function in uraemia: efficacy of haemodialysis and renal transplantation. Prem AR, et al. **Br J Urol** 1996 Oct;78(4):635–8

Late diagnosis of chronic renal failure and the quality of life during dialysis treatment. Sesso R, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1283–9

Methotrexate removal during haemodialysis in a patient with advanced laryngeal carcinoma. Thomson AH, et al. **Cancer Chemother Pharmacol** 1996;38(6):566–70

Dialysis grafts arterial plug: retrieval using the tulip sheath device in vitro. Sharafuddin MJ, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):154–8

A simple trick to facilitate bleeding control after percutaneous hemodialysis fistula and graft interventions. Vorwerk D, et al. **Cardiovasc Intervent Radiol** 1997 Mar–Apr;20(2):159–60

The efficacy of percutaneous transluminal angioplasty in the treatment of failing vascular access in chronic hemodialysis patients. Lio JY, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Nov; 58(5):335–40

The role of the oxidative state of glutathione and glutathione-related enzymes in anemia of hemodialysis patients. Paşaoğlu H, et al. **Clin Biochem** 1996 Dec; 29(6):567–72

Cardiac troponin I, cardiac troponin T, and creatine kinase MB in dialysis patients without ischemic heart disease: evidence of cardiac troponin T expression in skeletal muscle. McLaurin MD, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):976–82

Is echinocytic transformation of erythrocytes related to lipid peroxidation in hemodialysed uraemic patients? [letter; comment] Agroyannis B, et al. **Clin Chim Acta** 1997 May 28;261(2):185–7. Comment on: Clin Chim Acta 1996 Aug 30;252(2):137–45.

Plasma ubiquinol/cholesterol ratios in patients with hyperlipidaemia, those with diabetes mellitus and in patients requiring dialysis. McDonnell MG, et al. **Clin Chim Acta** 1996 Sep 30;253(1–2):117–26

Long-term follow up of ionic plasma fluoride level in patients receiving hemodialysis treatment. Nicolay A, et al.

Clin Chim Acta 1997 Jul 4;263(1):97–104

Neuropsychiatric toxicity in a patient undergoing hemodialysis and receiving treatment with oral acyclovir. Collins A, et al. **Clin Infect Dis** 1996 Jan;22(1):187–8

Indoxyl–beta–D–glucuronide and 3–indoxyl sulfate in plasma of hemodialysis patients. Agatsuma S, et al. **Clin Nephrol** 1996 Apr;45(4):250–6

Prevalence and clinical expression of HCV–genotypes in haemodialysis–patients of two geographically remote countries: Belgium and Saudi–Arabia. Bosmans JL, et al. **Clin Nephrol** 1997 Apr;47(4):256–62

Is hepatitis C virus–RNA detection by nested polymerase chain reaction clinically relevant in hemodialysis patients? Dussol B, et al. **Clin Nephrol** 1996 Apr;45(4):257–60

Phlebotomy for pulmonary edema in dialysis patients. Eiser AR, et al. **Clin Nephrol** 1997 Jan;47(1):47–9

Does pyuria indicate infection in asymptomatic dialysis patients? Eisinger RP, et al. **Clin Nephrol** 1997 Jan; 47(1):50–1

Paracetamol–induced pancreatitis and fulminant hepatitis in a hemodialysis patient. Farrell J, et al. **Clin Nephrol** 1997 Aug;48(2):132–3

Hepatitis C virus genotypes in hemodialyzed patients: a multicentric study. Goessens C, et al. **Clin Nephrol** 1997 Jun;47(6):367–71

Iatrogenic hypercalcemia in hemodialysis patients in spite of the use of low dialysate calcium [letter] Goicoechea M, et al. **Clin Nephrol** 1997 Jul;48(1):67–8

Evaluation of drug–related problems in an outpatient hemodialysis unit and the impact of a clinical pharmacist. Grabe DW, et al. **Clin Nephrol** 1997 Feb;47(2):117–21

Intravenous alfacalcidol improves insulin resistance in hemodialysis patients. Günal AI, et al. **Clin Nephrol** 1997 Aug;48(2):109–13

Plasma concentrations of vitamin C, vitamin E and/or malondialdehyde as markers of oxygen free radical production during hemodialysis. Hultqvist M, et al. **Clin Nephrol** 1997 Jan;47(1):37–46

Pyridoxal–5' –phosphate stimulation of aminotransferase activities in serum of hemodialysis patients and renal–transplant recipients [letter] Jung K. **Clin Nephrol** 1996 Jun;45(6):416–7

Serotonin metabolism in patients undergoing hemodialysis. Kanai H, et al. **Clin Nephrol** 1996 Apr;45(4):244–9

Acute necrotizing pancreatitis, lactic acidosis and prolonged hypoglycemia in a hemodialysed patient—a logical but unfortunately fatal combination. Korzets A, et al. **Clin Nephrol** 1996 Jun;45(6):410–2

Maintenance therapy with intravenous iron in hemodialysis patients receiving erythropoietin [letter] Kotaki M, et al. **Clin Nephrol** 1997 Jul;48(1):63–4

Severe metabolic alkalosis corrected by hemodialysis [letter] Leblanc M, et al. **Clin Nephrol** 1997 Jul;48(1):65

Importance of volume factors in dialysis related hypertension. Lins RL, et al. **Clin Nephrol** 1997 Jul;48(1):29–33

An evaluation of the effectiveness of oral iron therapy in hemodialysis patients receiving recombinant human erythropoietin. Markowitz GS, et al. **Clin Nephrol** 1997 Jul;48(1):34–40

The effect of oral 1 alpha–hydroxycalciferol treatment on bone mineral density in hemodialysis patients. Morita A, et al. **Clin Nephrol** 1996 Dec;46(6):389–93

Depressor effect of L–arginine in normotensive patients on regular dialysis treatment [letter] Nakayama M, et al. **Clin Nephrol** 1996 Oct;46(4):286

Is the determination of LDL cholesterol according to Friedewald accurate in CAPD and HD patients? Nauck M, et al. **Clin Nephrol** 1996 Nov;46(5):319–25

Risk modeling in acute renal failure requiring dialysis: the introduction of a new model. Paganini EP, et al. **Clin Nephrol** 1996 Sep;46(3):206–11

Complete seroconversion after vaccination against hepatitis B virus in hemodialysis patients [letter; comment] Radović MM, et al. **Clin Nephrol** 1997 Mar;47(3):206. Comment on: Clin Nephrol 1994 Feb;41(2):113–6. Comment on: Clin Nephrol 1996 Mar;45(3):180–2.

Use of vancomycin in dialysis patients [letter] Saghafi D. **Clin Nephrol** 1996 May;45(5):366

Measurement of serum ionized versus total levels of magnesium and calcium in hemodialysis patients. Saha H, et al. **Clin Nephrol** 1996 Nov;46(5):326–31

Kinetics of phosphorus during hemodialysis and the calculation of its effective dialysis clearance. Schück O, et al. **Clin Nephrol** 1997 Jun;47(6):379–83

Comment to Sunder–Plassmann and Hörl [letter; comment] Shaldon S. **Clin Nephrol** 1997 Jun;47(6):408. Comment on: Clin Nephrol 1997 Mar;47(3):141–57.

Hemodialysis and hemoperfusion in the successful treatment of a poisoning with a herbicide containing glufosinate ammonium and a surfactant [letter] Shinohara M, et al. **Clin Nephrol** 1997 Jul;48(1):61

The effect of needle gauges on recirculation: a reply to Hasbargen et al [letter; comment] Stragier A, et al. **Clin Nephrol** 1996 Nov;46(5):355. Comment on: Clin Nephrol 1995 Nov;44(5):322–4.

Higher response rate to hepatitis B vaccination observed in chronic hemodialysis patients [letter] Swan AM, et al. **Clin Nephrol** 1997 Mar;47(3):207–8

Skeletal muscle metabolism before and after gemfibrozil treatment in dialysed patients with chronic renal failure. Thompson CH, et al. **Clin Nephrol** 1996 Jun;45(6):386–9

The effect of propionyl L–carnitine on skeletal muscle metabolism in renal failure. Thompson CH, et al. **Clin Nephrol** 1997 Jun;47(6):372–8

Plasma concentration of human adrenomedullin in patients on hemodialysis. Washimine H, et al. **Clin Nephrol** 1995 Dec;44(6):389–93

Risk factors for left ventricular hypertrophy in chronic hemodialysis patients. Washio M, et al. **Clin Nephrol** 1997 Jun;47(6):362–6

Visualization of bone structure with Tc–99m MIBI in a patient on hemodialysis. Kinuya S, et al. **Clin Nucl Med** 1997 May;22(5):331–2

Autonomic nervous function during haemodialysis assessed by spectral analysis of heart–rate variability. Cavalcanti S, et al. **Clin Sci (Colch)** 1997 Apr;92(4):351–9

Human erythrocyte choline uptake in uraemia: the role of intracellular substrate and an investigation into the effects of haemodialysis. Flanagan GJ, et al. **Clin Sci (Colch)** 1996 Sep;91(3):353–8

Long–term function of vascular access for hemodialysis. Enzler MA, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):511–5

Cancer incidence in 854 kidney transplant recipients from a single institution: comparison with normal population and with patients under dialytic treatment. Montagnino G, et al. **Clin Transplant** 1996 Oct;10(5):461–9

Comparative study of mitral annular calcification (MAC) with cardiac arrhythmias in dialysis patients. Jeren–Strujić B, et al. **Coll Antropol** 1997 Jun;21(1):167–74

Patch testing in suspected allergic contact dermatitis due to Emla cream in haemodialyzed patients. le Coz CJ, et al. **Contact Dermatitis** 1996 Nov;35(5):316–7

Autonomic function during hemodialysis–induced collapses with different heart rate pattern. Enzmann G, et al. **Contrib Nephrol** 1996;119:202–7

Nitric oxide in hemodialysis and its relation to hypotensive episodes. Patrikarea A, et al. **Contrib Nephrol** 1996; 119:208–11

Bioelectrical impedance techniques in medicine. Part II: Monitoring of physiological events by impedance. Valentinuzzi ME, et al. **Crit Rev Biomed Eng** 1996; 24(4–6):353–466 (408 ref.)

Dialysis and transplantation. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):B187–218

Hepatitis C in dialysis and transplantation. Diego JM, et al. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):497–503 (94 ref.)

Screening for cardiovascular disease in dialysis patients. Murphy SW, et al. **Curr Opin Nephrol Hypertens** 1996 Nov; 5(6):532–40 (76 ref.)

Differential suppression of dialysis patients' lymphocyte IFN–gamma production by glucocorticoids and cyclosporine. Briggs WA, et al. **Cytokine** 1996 Oct; 8(10):804–8

Suppression of dialysis patients' lymphocyte IL–2R expression by glucocorticoids and cyclosporine. Briggs WA, et al. **Cytokine** 1997 Aug;9(8):624–8

LDL apheresis reduces the susceptibility of LDL to in vitro oxidation in a diabetic patient with hemodialysis treatment. Inoue I, et al. **Diabetes Care** 1996 Oct;19(10):1103–7

Echocardiographic assessment of left ventricular hypertrophy diastolic dysfunction and pericardial disease in patients on maintenance haemodialysis. Hakim JG, et al. **East Afr Med J** 1996 Aug;73(8):505–8

Thyroid cell proliferation–inhibiting activity in serum of patients with chronic renal failure on hemodialysis. Nishikawa M, et al. **Endocr J** 1996 Aug;43(4):441–5

A study on the biological significance of midregion and intact parathyroid hormone in hemodialysis patients. Yamaguchi T, et al. **Endocr J** 1997 Apr;44(2):289–97

Influence of haemodialysis on lipase activity. Montalto G, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar;35(3):237–8

Comparison of dose requirement, serum erythropoietin and blood pressure following intravenous and subcutaneous erythropoietin treatment of dialysis patients. IV and SC erythropoietin. Jensen JD, et al. **Eur J Clin Pharmacol** 1996; 50(3):171–7

Pharmacokinetics of meloxicam in patients with end–stage renal failure on haemodialysis: a comparison with healthy volunteers. Türck D, et al. **Eur J Clin Pharmacol** 1996; 51(3–4):309–13

Reduction of retinal exudates in diabetic retinopathy after heparin–induced extracorporal LDL–precipitation (HELP). A case report. Janknecht P, et al. **Eur J Ophthalmol** 1996 Jul–Sep;6(3):340–2

Elimination of iomeprol by hemodialysis. Ueda J, et al. **Eur J Radiol** 1996 Nov;23(3):197–200

Comparative results of early and delayed cannulation of arteriovenous graft in haemodialysis. Sottiurai VS, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):139–41

In vitro endothelialisation of arteriovenous loop grafts for haemodialysis. Swedenborg J, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):272–7

Thoracic complications in uremic patients and in patients undergoing dialytic treatment: state of the art. Gavelli G, et al. **Eur Radiol** 1997;7(5):708–17 (76 ref.)

Vascular rupture complicating transluminal angioplasty applied on a failed dialysis vascular access in a patient under chronic steroid therapy. Melki PS, et al. **Eur Radiol** 1997; 7(3):313–5

Accumulation of the endogenous L–arginine analogue NG–monomethyl–L–arginine in human end–stage renal failure patients on regular haemodialysis. Mendes Ribeiro AC, et al. **Exp Physiol** 1996 May;81(3):475–81

Soluble and membrane bound IL–2 receptors (alpha and beta chains) in chronic hemodialyzed patients. Koziol–Montewka M, et al. **Folia Histochem Cytobiol** 1997; 35(2):79–80

Decreased bioavailability of insulin–like growth factor–I, a cause of catabolism in hemodialysis patients? Lindgren BF, et al. **Growth Regul** 1996 Sep;6(3):137–43

Long–term use of the low molecular weight heparin tinzaparin in haemodialysis. Simpson HK, et al. **Haemostasis** 1996 Mar–Apr;26(2):90–7

Monitoring attentional style and medical regimen adherence in hemodialysis patients. Christensen AJ, et al. **Health Psychol** 1997 May;16(3):256–62

4–Methylpyrazole (4–MP) is effectively removed by haemodialysis in the pig model. Jacobsen D, et al. **Hum Exp Toxicol** 1996 Jun;15(6):494–6

The effect of hematocrit on the efficiency of hemodialysis in cases of chronic renal failure. Nand N, et al. **Indian J Med Sci** 1996 Feb;50(2):29–33

Outcome of dialysed patients with acute renal failure. Acharya UT, et al. **Indian Pediatr** 1996 May;33(5):387–90

Vascular access in pediatric hemodialysis. Kurien R, et al. **Indian Pediatr** 1996 Sep;33(9):767–70

Elimination of nasal carriage of Staphylococcus aureus in hemodialysis patients. Kluytmans JA, et al. **Infect Control Hosp Epidemiol** 1996 Dec;17(12):793–7

Renal considerations, dialysis, and ultrafiltration during cardiopulmonary bypass. Sutton RG. **Int Anesthesiol Clin** 1996 Spring;34(2):165–76 (42 ref.)

Long–term effects of low molecular weight heparin on lipid parameters in hemodialysis patients. Elisaf MS, et al. **Int Angiol** 1996 Sep;15(3):252–6

A partial dialysate collection method. Cheng YL, et al. **Int J Artif Organs** 1997 Jan;20(1):14–7

Use of a phosphorus–enriched dialysate to hemodialyze patients with ethylene glycol intoxication. Chow MT, et al. **Int J Artif Organs** 1997 Feb;20(2):101–4

Combined measurement of tissue fluid, blood volume and hemodynamics in hemodialysis. De Vries JP, et al. **Int J Artif Organs** 1995 Nov;18(11):705–11

Bioelectrical impedance analysis: clinical tool in assessing total body water and thoracic fluid. De Vries PM, et al. **Int J Artif Organs** 1995 Nov;18(11):693–9

Predilution hemofiltration: a new technology applied to an old therapy. Ledebo I. **Int J Artif Organs** 1995 Nov; 18(11):735–42 (33 ref.)

Use of continuous blood volume monitoring to detect inadequately high dry weight. Lopot F, et al. **Int J Artif Organs** 1996 Jul;19(7):411–4

Bioelectrical impedance and hemodialysis. Mandolfo S, et al. **Int J Artif Organs** 1995 Nov;18(11):700–4

Prescription and surveillance of the acetate–free biofiltration sessions: the bicarbonate cycle. Pacitti A, et al. **Int J Artif Organs** 1995 Nov;18(11):722–5

Anticardiolipin antibodies and lipoprotein (a) levels in patients with chronic renal failure treated with dialysis: associations with atherothrombotic disease. Petersen LJ, et al. **Int J Artif Organs** 1996 Jun;19(6):339–42

Hypertension in the dialysis population: no easy answers [editorial] Salem MM. **Int J Artif Organs** 1996 Dec; 19(12):693–4 (15 ref.)

Acute hemodialysis catheters: how safe are they? [editorial] el–Shahawy A, et al. **Int J Artif Organs** 1996 Oct; 19(10):571–3 (34 ref.)

ARF–continuing controversies [editorial] Shaldon S. **Int J Artif Organs** 1996 Aug;19(8):446–7 (14 ref.)

Autonomic neuropathy in hemodialysis patients treated with recombinant human erythropoietin. Stojcheva–Taneva OO, et al. **Int J Artif Organs** 1996 Oct;19(10):574–7

Bioimpedance analysis (BIA) in hemodialysis: technical aspects. Talluri A, et al. **Int J Artif Organs** 1995 Nov; 18(11):687–92

Urea volume estimates in peritoneal dialysis: pitfalls and corrections [editorial] Tzamaloukas AH, et al. **Int J Artif Organs** 1996 Jun;19(6):321–4 (25 ref.)

The effects of rHuEPO administration on pulmonary functions in haemodialysis patients. Uçok K, et al. **Int J Artif Organs** 1996 Jun;19(6):336–8

A simple mathematical model of intradialytic sodium kinetics: "in vivo" validation during hemodialysis with constant or variable sodium. Ursino M, et al. **Int J Artif Organs** 1996 Jul;19(7):393–403

Influence of acetate and bicarbonate hemodialysis on the plasma erythropoietin concentration in patients with chronic renal failure. Więcek A, et al. **Int J Artif Organs** 1997 Feb;20(2):108–11

Vitamin C status of patients with chronic renal failure, dialysis patients and patients after renal transplantation. Böhm V, et al. **Int J Vitam Nutr Res** 1997;67(4):262–6

Immediate postoperative complications following hemodialysis access procedures. Wada H, et al. **Int Surg** 1996 Jan–Mar;81(1):99–101

1.25(OH)2 cholecalciferol pulse therapy and the effects of different dialysis membranes on serum PTH levels of haemodialysis patients. Boran M, et al. **Int Urol Nephrol** 1997;29(2):251–8

Influence of some immune factors on the IL–6 and soluble IL–2 receptors in haemodialysed patients. Koziol–Montewka M, et al. **Int Urol Nephrol** 1997; 29(3):369–75

Plasma erythropoietin level and iron reserves in

haemodialysis patients with and without acquired cystic kidney disease. Majdan M, et al. **Int Urol Nephrol** 1997; 29(1):113–8

A randomized cross–over comparison of the hemodynamic response to intermittent hemodialysis and continuous hemofiltration in ICU patients with acute renal failure. Misset B, et al. **Intensive Care Med** 1996 Aug;22(8):742–6

Pheochromocytoma in a long–term hemodialysis patient, discovered as an adrenal incidentaloma. Asaka S, et al. **Intern Med** 1997 Jun;36(6):403–7 (18 ref.)

Hemodialysis treatment may improve inspiratory muscle strength and endurance. Weiner P, et al. **Isr J Med Sci** 1997 Feb;33(2):134–8

Comparison of survival of an expanded polytetrafluoroethylene graft designed for early cannulation to standard wall polytetrafluoroethylene grafts. Coyne DW, et al. **J Am Coll Surg** 1996 Oct;183(4):401–5

An unusual approach for difficult dialysis access. Jones JW Jr. **J Am Coll Surg** 1997 Sep;185(3):287–9

A prospective comparison of two expanded polytetrafluoroethylene grafts for linear forearm hemodialysis access: does the manufacturer matter? Kaufman JL, et al. **J Am Coll Surg** 1997 Jul;185(1):74–9

Graft surveillance and angioplasty prolongs dialysis graft patency. Roberts AB, et al. **J Am Coll Surg** 1996 Nov; 183(5):486–92

Characterization of myocardial tissue in patients undergoing maintenance hemodialysis by quantitative echocardiography. Morales MA, et al. **J Am Soc Echocardiogr** 1996 Jul–Aug;9(4):480–7

Protein intake and dialysis dose [letter; comment] Baltzan MA. **J Am Soc Nephrol** 1996 Jul;7(7):1088. Comment on: J Am Soc Nephrol 1996 Jan;7(1):166–8.

The effects of recombinant human erythropoietin on functional health and well–being in chronic dialysis patients. Beusterien KM, et al. **J Am Soc Nephrol** 1996 May;7(5):763–73

Access flow measurements in hemodialysis patients: in vivo validation of an ultrasound dilution technique. Bosman PJ, et al. **J Am Soc Nephrol** 1996 Jun;7(6):966–9

Effect of immunoglobulin light chains from hemodialysis and continuous ambulatory peritoneal dialysis patients on polymorphonuclear leukocyte functions. Cohen G, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1592–9

Diagnosis and management of coronary artery disease in patients with end–stage renal disease on hemodialysis. de Lemos JA, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2044–54 (96 ref.)

Risk factors for vascular disease and arteriovenous fistula dysfunction in hemodialysis patients. De Marchi S, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1169–77

Equations for normalized protein catabolic rate based on two–point modeling of hemodialysis urea kinetics. Depner TA, et al. **J Am Soc Nephrol** 1996 May;7(5):780–5

Predicting mortality in intensive care patients with acute renal failure treated with dialysis. Douma CE, et al. **J Am Soc Nephrol** 1997 Jan;8(1):111–7

Effects of recombinant human erythropoietin on porphyrin metabolism in uremic patients on hemodialysis. Fontanellas A, et al. **J Am Soc Nephrol** 1996 May;7(5):774–9

Correcting acidosis in hemodialysis: effect on phosphate clearance and calcification risk. Harris DC, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1607–12

Vaccine–induced hepatitis B surface antigen positivity in adult hemodialysis patients: incidental and surveillance data. Janzen L, et al. **J Am Soc Nephrol** 1996 Aug; 7(8):1228–34

Psychologic functioning, quality of life, and behavioral compliance in patients beginning hemodialysis. Kimmel PL, et al. **J Am Soc Nephrol** 1996 Oct;7(10):2152–9

Chronic dialysis in patients over age 65 [editorial] Latos DL. **J Am Soc Nephrol** 1996 May;7(5):637–46

Significance of anti–E2 in the diagnosis of HCV infection in patients on maintenance hemodialysis: anti–E2 is frequently detected among anti–HCV antibody–negative patients. Lee DS, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2409–13

Favorable effect of hemodialysis on decreased serum antioxidant activity in hemodialysis patients demonstrated by electron spin resonance. Nagase S, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1157–63

Safety and efficacy of low–dose subcutaneous erythropoietin in hemodialysis patients. Parker KP, et al. **J Am Soc Nephrol** 1997 Feb;8(2):288–93

Effect of controlled extracorporeal blood cooling on ultrafiltration–induced blood volume changes during hemodialysis. Schneditz D, et al. **J Am Soc Nephrol** 1997 Jun;8(6):956–64

Noninvasive measurement of blood volume in hemodialysis patients. Schneditz D, et al. **J Am Soc Nephrol** 1996 Aug; 7(8):1241–4

Studies on platelet membrane glycoproteins and platelet function during hemodialysis. Sloand JA, et al. **J Am Soc Nephrol** 1997 May;8(5):799–803

Lipopolysaccharide–binding protein and bactericidal/permeability–increasing factor during hemodialysis: clinical determinants and role of different membranes. Sundaram S, et al. **J Am Soc Nephrol** 1997 Mar;8(3):463–70

Transmembrane passage of cytokine–inducing bacterial products across new and reprocessed polysulfone dialyzers. Sundaram S, et al. **J Am Soc Nephrol** 1996 Oct; 7(10):2183–91

Homocysteine and folate concentrations in blood from patients treated with hemodialysis. Tamura T, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2414–8

Pharmacokinetics of netivudine in haemodialysis patients [letter] Le Roy F, et al. **J Antimicrob Chemother** 1996 Nov; 38(5):913–5

Comparison of sodium nitroprusside added peritoneal dialysis and standard haemodialysis. Nand N, et al. **J Assoc Physicians India** 1996 Nov;44(11):780–3

Surface modification of chitosan membranes by complexation–interpenetration of anionic polysaccharides for improved blood compatibility in hemodialysis. Amiji MM. **J Biomater Sci Polym Ed** 1996;8(4):281–98

In vitro evaluation of heparinized Cuprophan hemodialysis membranes. Hinrichs WL, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):443–50

Evidence for both abnormal set point of PTH stimulation by calcium and adaptation to serum calcium in hemodialysis patients with hyperparathyroidism. Rodriguez M, et al. **J Bone Miner Res** 1997 Mar;12(3):347–55

Kinetics, safety, and efficacy of ramipril after long–term administration in hemodialyzed patients. Fillastre JP, et al. **J Cardiovasc Pharmacol** 1996 Feb;27(2):269–74

Treatment of hypercholesterolemia with heparin–induced extracorporeal low–density lipoprotein precipitation (HELP). Lees RS, et al. **J Clin Apheresis** 1996;11(3):132–7 (37 ref.)

The contribution of personal rating to the clinimetric functioning of a generic quality of life instrument. Mozes B, et al. **J Clin Epidemiol** 1996 Dec;49(12):1419–22

Effect of dialysis on exogenous dopamine in haemodialysed critically ill patients. Delval F, et al. **J Clin Pharm Ther** 1996 Jun;21(3):165–71

The effect of renal insufficiency and hemodialysis on the pharmacokinetics of nalmefene. Matzke GR, et al. **J Clin Pharmacol** 1996 Feb;36(2):144–51

Acebutolol overdose treated with hemodialysis and extracorporeal membrane oxygenation. Rooney M, et al. **J Clin Pharmacol** 1996 Aug;36(8):760–3

Interferon treatment for chronic hepatitis C in haemodialysis patients: suggestions based on a small series. Okuda K, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):616–20

Complete endoscopic carpal tunnel release in long–term haemodialysis patients. Okutsu I, et al. **J Hand Surg [Br]** 1996 Oct;21(5):668–71

Physician–based transactions: the sale of medical practices, ambulatory surgery centers, and dialysis facilities. Becker S, et al. **J Health Care Finance** 1995 Winter;22(2):13–26

Control of varicella–zoster infection on renal and other specialist units. Jones EM, et al. **J Hosp Infect** 1997 Jun; 36(2):133–40

Ambulatory blood pressure monitoring in hemodialysis patients. Elisaf M, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S43–7

Arterial blood pressure and left ventricular hypertrophy in haemodialysis patients. de Lima JJ, et al. **J Hypertens** 1996 Aug;14(8):1019–24

Energy intake in patients on continuous ambulatory peritoneal dialysis and haemodialysis. Fernström A, et al. **J Intern Med** 1996 Oct;240(4):211–8

High–technology medicine and the old: the dialysis example. Kjellstrand CM. **J Intern Med** 1996 Mar;239(3):195–210 (94 ref.)

Dialysis and transplantation affect cerebral abnormalities of end–stage renal disease. Michaelis T, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):341–7

A case report of pancreatic mucinous cystadenoma in a patient receiving chronic hemodialysis. Ishii Y, et al. **J Med** 1996;27(5–6):351–61

Infection with GB virus C (GBV–C) in patients with chronic liver disease or on maintenance hemodialysis in Indonesia. Tsuda F, et al. **J Med Virol** 1996 Jul;49(3):248–52

Immunity to diphtheria and tetanus in a young population on a dialysis regimen or with a renal transplant [see comments] Ghio L, et al. **J Pediatr** 1997 Jun;130(6):987–9 . Comment in: J Pediatr 1997 Jun;130(6):850–1.

Dyslipidemia in patients with chronic renal failure and in renal transplant patients. Shah B, et al. **J Postgrad Med** 1994 Apr–Jun;40(2):57–60

Hemodialysis access graft stenosis: percutaneous transluminal angioplasty. Lumsden AB, et al. **J Surg Res** 1997 Mar; 68(2):181–5

Hemodialysis graft declotting: description of the "lyse and wait" technique. Cynamon J, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):825–9

Percutaneous intervention for permanent hemodialysis access: a review. Gray RJ. **J Vasc Interv Radiol** 1997 May–Jun;8(3):313–27 (105 ref.)

Admixture of heparin with urokinase to decrease thrombolysis time and urokinase dose in polytetrafluoroethylene dialysis graft recanalization. Harrell DS, et al. **J Vasc Interv Radiol** 1996 Mar–Apr; 7(2):193–7

Percutaneous transluminal angioplasty versus endovascular stent placement in the treatment of venous stenoses in patients undergoing hemodialysis: intermediate results. Quinn SF, et al. **J Vasc Interv Radiol** 1995 Nov–Dec; 6(6):851–5

Cragg covered stents in hemodialysis access: initial and midterm results. Sapoval MR, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):335–42

Percutaneous balloon–assisted aspiration thrombectomy of clotted hemodialysis access grafts. Sharafuddin MJ, et al. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):177–83

Local delivery of heparin with balloon angioplasty: results of a prospective randomized trial. Sheley RC, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):853–8

Hemodynamic screening and early percutaneous intervention reduce hemodialysis access thrombosis and increase graft longevity. Sullivan KL, et al. **J Vasc Interv Radiol** 1997 Mar–Apr;8(2):163–70 (45 ref.)

Screening for dialysis access graft malfunction: comparison of physical examination with US. Trerotola SO, et al. **J Vasc Interv Radiol** 1996 Jan–Feb;7(1):15–20

Manual thromboaspiration and dilation of thrombosed dialysis access: mid–term results of a simple concept. Turmel–Rodrigues L, et al. **J Vasc Interv Radiol** 1997 Sep–Oct;8(5):813–24

Treatment of thrombosed dialysis access grafts: randomized trial of surgical thrombectomy versus mechanical thrombectomy with the Amplatz device. Uflacker R, et al. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):185–92

Durability of early prosthetic dialysis graft cannulation: results of a prospective, nonrandomized clinical trial. Hakaim AG, et al. **J Vasc Surg** 1997 Jun;25(6):1002–5; discussion 1005–6

A double–blind controlled trial of recombinant interferon–alpha 2b in haemodialysis patients with chronic hepatitis C virus infection and abnormal aminotransferase levels. Nephrologists' Group for the Study of HCV infection. Fernández JL, et al. **J Viral Hepat** 1997 Mar; 4(2):113–9

Grafts vs fistulas for hemodialysis patients: equal access for all? [editorial; comment] Chertow GM. **JAMA** 1996 Oct 23–30;276(16):1343–4. Comment on: JAMA 1996 Oct 23–30;276(16):1303–8.

Predictors of type of vascular access in hemodialysis patients [see comments] Hirth RA, et al. **JAMA** 1996 Oct 23–30; 276(16):1303–8. Comment in: JAMA 1996 Oct 23–30;276(16):1343–4.

Vascular access in patients receiving hemodialysis [letter] Qureshi N. **JAMA** 1997 Feb 12;277(6):455; discussion 456–7

Advance directives and withdrawal of dialysis in the United States, Germany, and Japan. Sehgal AR, et al. **JAMA** 1996 Nov 27;276(20):1652–6

Vascular access in patients receiving hemodialysis [letter] Tesi RJ, et al. **JAMA** 1997 Feb 12;277(6):455–6; discussion 456–7

Vascular access in patients receiving hemodialysis [letter] Tokars JI, et al. **JAMA** 1997 Feb 12;277(6):455; discussion 456–7

Predictors of mortality in hemodialysis. Jamil B, et al. **JPMA J Pak Med Assoc** 1996 Mar;46(3):58–60

Non–compliance to diet and fluid restrictions in haemodialysis patients. Safdar N, et al. **JPMA J Pak Med Assoc** 1995 Nov;45(11):293–5

Increased lipoprotein (a) and its relationships with other parameters of lipoprotein metabolism in chronic renal failure treated by hemodialysis. Yiğitoğlu MR, et al. **Jpn Heart J** 1997 Jan;38(1):83–9

Marked decrease in intraocular pressure in a neovascular glaucoma patient during hemodialysis. Tokuyama T, et al. **Jpn J Ophthalmol** 1997 Mar–Apr;41(2):101–3

The relationship between health locus of control and compliance of hemodialysis patients. Lin CC, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Apr; 13(4):243–54

Monitoring of extracellular and total body water during haemodialysis using multifrequency bio–electrical impedance analysis. Johnson DW, et al. **Kidney Blood Press Res** 1996;19(2):94–9

Percutaneous interventions to support failing hemodialysis fistulas and grafts. Vorwerk D. **Kidney Blood Press Res** 1997;20(3):145–7

Influence of nycthemeral blood pressure pattern in treated hypertensive patients on hemodialysis. Amar J, et al. **Kidney Int** 1997 Jun;51(6):1863–6

Use of vancomycin in high–flux hemodialysis: experience with 130 courses of therapy. Barth RH, et al. **Kidney Int** 1996 Sep;50(3):929–36

Effect of chronic human recombinant erythropoietin therapy on antibody responses to immunization in chronic hemodialysis patients. Birmingham DJ, et al. **Kidney Int** 1996 Aug;50(2):543–9

High dose–B–vitamin treatment of hyperhomocysteinemia in dialysis patients. Bostom AG, et al. **Kidney Int** 1996 Jan; 49(1):147–52

Fractional direct dialysis quantification: a new approach for prescription and monitoring hemodialysis therapy. Charytan C, et al. **Kidney Int** 1996 Dec;50(6):1845–9

Development of a population–specific regression equation to estimate total body water in hemodialysis patients. Chertow GM, et al. **Kidney Int** 1997 May;51(5):1578–82

Effect of a two compartment distribution on apparent urea distribution volume. Daugirdas JT, et al. **Kidney Int** 1997 Apr;51(4):1270–3

Carbamylated hemoglobin: a potential marker for the adequacy of hemodialysis therapy in end–stage renal failure. Davenport A, et al. **Kidney Int** 1996 Oct; 50(4):1344–51

Reticulocyte hemoglobin content in the evaluation of iron status of hemodialysis patients. Fishbane S, et al. **Kidney Int** 1997 Jul;52(1):217–22

Histological prevalence of beta 2-microglobulin amyloidosis in hemodialysis: a prospective post-mortem study. Jadoul M, et al. **Kidney Int** 1997 Jun;51(6):1928–32

Non-invasive, optical measurement of absolute blood volume in hemodialysis patients. Johnson DW, et al. **Kidney Int** 1996 Jan;49(1):255–60

Validation of a revised slow-stop flow recirculation method. Kapoian T, et al. **Kidney Int** 1997 Sep;52(3):839–42

Quasi-steadiness approximation for the two-compartment solute kinetic model. Koike J, et al. **Kidney Int** 1997 Sep; 52(3):821–31

Low efficiency of active immunization against diphtheria in chronic hemodialysis patients. Kreft B, et al. **Kidney Int** 1997 Jul;52(1):212–6

Nutritional and prognostic correlates of bioimpedance indexes in hemodialysis patients. Maggiore Q, et al. **Kidney Int** 1996 Dec;50(6):2103–8

Stenting of central venous stenoses in hemodialysis patients: long-term results. Mickley V, et al. **Kidney Int** 1997 Jan; 51(1):277–80 (31 ref.)

Nitric oxide release in the peripheral blood during hemodialysis. Rysz J, et al. **Kidney Int** 1997 Jan; 51(1):294–300

Hepatitis G virus infection in hemodialysis patients. Sampietro M, et al. **Kidney Int** 1997 Jan;51(1):348–52

Plasma leptin is partly cleared by the kidney and is elevated in hemodialysis patients. Sharma K, et al. **Kidney Int** 1997 Jun;51(6):1980–5

Determination of residual renal function with iohexol clearance in hemodialysis patients. Swan SK, et al. **Kidney Int** 1996 Jan;49(1):232–5

Effective suppression of parathyroid hormone by 1 alpha-hydroxy-vitamin D2 in hemodialysis patients with moderate to severe secondary hyperparathyroidism. Tan AU Jr, et al. **Kidney Int** 1997 Jan;51(1):317–23

The post-hemodialysis rebound: predicting and quantifying its effect on Kt/V. Tattersall JE, et al. **Kidney Int** 1996 Dec;50(6):2094–102

Effects of ultrapure and non-sterile dialysate on the inflammatory response during in vitro hemodialysis. Tielemans C, et al. **Kidney Int** 1996 Jan;49(1):236–43

Splanchnic erythrocyte content decreases during hemodialysis: a new compensatory mechanism for hypovolemia. Yu AW, et al. **Kidney Int** 1997 Jun; 51(6):1986–90

Is hypertension a mortality risk factor in dialysis? Duranti E, et al. **Kidney Int Suppl** 1996 Jun;55:S173–4

Living on chronic hemodialysis between dryness and fluid overload. Franz M, et al. **Kidney Int Suppl** 1997 Jun; 59:S39–42 (35 ref.)

Nitrogen balance in hospitalized chronic hemodialysis patients. Ikizler TA, et al. **Kidney Int Suppl** 1996 Dec; 57:S53–6

Acquired perforating dermatosis in renal and diabetic patients. Farrell AM. **Lancet** 1997 Mar 29;349(9056):895–6

Extra- and intracellular volume monitoring by impedance during haemodialysis using Cole-Cole extrapolation. Jaffrin MY, et al. **Med Biol Eng Comput** 1997 May;35(3):266–70

Continuous measurements by impedance of haematocrit and plasma volume variations during dialysis. Maasrani M, et al. **Med Biol Eng Comput** 1997 May;35(3):167–71

Influence of ionic shifts during dialysis on volume estimations with multifrequency impedance analysis. Scharfetter H, et al. **Med Biol Eng Comput** 1997 Mar;35(2):96–102

Estimation of parameters in a two-pool urea kinetic model for hemodialysis. Burgelman M, et al. **Med Eng Phys** 1997 Jan;19(1):69–76

Body composition changes in chronic hemodialysis patients before and after hemodialysis as assessed by dual-energy x-ray absorptiometry. Georgiou E, et al. **Metabolism** 1997 Sep;46(9):1059–62

Plasminogen activator inhibitor-1 activity in chronic renal disease and dialysis. Irish AB. **Metabolism** 1997 Jan; 46(1):36–40

Protein oxidation in hemodialysis and kidney transplantation. Odetti P, et al. **Metabolism** 1996 Nov;45(11):1319–22

Intravenous 1,25(OH)2D therapy increases the intact parathyroid hormone secretion set point in hemodialyzed patients. Brossard JH, et al. **Miner Electrolyte Metab** 1997; 23(1):25–32

Changes of bone markers during long-term intravenous calcitriol therapy in maintenance dialysis patients. Lee SH, et al. **Miner Electrolyte Metab** 1996;22(4):219–23

A crossover comparison of intermittent oral and intravenous administration of calcitriol on the parathyroid hormone concentration in hemodialysis patients. Peng SJ, et al. **Miner Electrolyte Metab** 1997;23(1):13–8

Effects of omega 3-PUFA on plasma fibrinogen levels in hypertriglyceridemic hemodialysis patients. Persichetti S, et al. **Minerva Urol Nefrol** 1996 Sep;48(3):137–8

The graying of dialysis in America [see comments] Jones FS. **N C Med J** 1996 Nov-Dec;57(6):359–62. Comment in: N C Med J 1997 May-Jun;58(3):165.

Renal Bone Disease, Parathyroid Hormone and Vitamin D. Proceedings of ISN satellite symposium. Seville, Spain, July 7–11, 1995. **Nephrol Dial Transplant** 1996;11 Suppl 3:1–157

Clinical Relevance of Dialysis Membrane Biocompatibility. Proceedings of a conference. Miami, USA, February 1995. **Nephrol Dial Transplant** 1995;10 Suppl 10:1–59

Quality Care for Haemodialysis Patients. Proceedings of a meeting. Wiesbaden, Germany, 11–13 May 1995. **Nephrol Dial Transplant** 1996;11 Suppl 2:1–153

Relationship between nitrogen balance, protein, and energy intake in haemodialysis patients. Alvestrand A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:130–3 (30 ref.)

Torsade de pointes in haemodialysis patients [editorial] [see comments] Bahrle S, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):944–6 (7 ref.). Comment in: Nephrol Dial Transplant 1997 Feb;12(2):365.

Dialysis fluid and water: their roles in biocompatibility. Berland Y, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:45–7 (32 ref.)

Increased silicon levels in dialysis patients due to high silicon content in the drinking water, inadequate water treatment procedures, and concentrate contamination: a multicentre study [letter] Birchall D, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1188–9

Plasma potassium in patients with terminal renal failure during and after haemodialysis; relationship with dialytic potassium removal and total body potassium. Blumberg A, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1629–34

Transplantation versus haemodialysis in elderly patients. Renal Registry Committee. Bonal J, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):261–4

Inverse relationships between haemoglobin and ristocetin-induced platelet aggregation in haemodialysis patients under erythropoietin therapy. Borawski J, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2444–8

Evidence for adaptation of the entire PTH-calcium curve to sustained changes in the serum calcium in haemodialysis patients. Borrego MJ, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):505–13

Low polymorphonuclear cell degranulation during citrate anticoagulation: a comparison between citrate and heparin dialysis. Bos JC, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1387–93

Percentage of hypochromic red blood cells as predictor of erythropoietic and iron response after i.v. iron supplementation in maintenance haemodialysis patients. Braun J, et al. **Nephrol Dial Transplant** 1997 Jun; 12(6):1173–81

Heterozygosity for factor V Leiden in a haemodialysis patient with recurrent shunt thrombosis [letter] Bremer C, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1775–6

Intravenous administration of iron gluconate during haemodialysis. Calvar C, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):574–5

Relationships between plasma ferritin and aminotransferase profile in haemodialysis patients with hepatitis C virus. Caramelo C, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1792–6

Cell-associated adhesion molecules as early markers of bioincompatibility. Carreno MP, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2248–57

The equivalent renal urea clearance: a new parameter to assess dialysis dose. Casino FG, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1574–81

Clinical assessment of dry weight. Charra B, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:16–9 (24 ref.)

Adequacy of haemodialysis and nutrition in maintenance haemodialysis patients: clinical evaluation of a new on-line urea monitor. Chauveau P, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1568–73

Epidemiology of hepatitis C virus infection in chronic haemodialysis. Chauveau P. **Nephrol Dial Transplant** 1996; 11 Suppl 4:39–41 (16 ref.)

Sodium and water profiling in chronic uraemia. Churchill DN. **Nephrol Dial Transplant** 1996;11 Suppl 8:38–41 (15 ref.)

The dialysis patient today. Davison AM. **Nephrol Dial Transplant** 1995;10 Suppl 10:2–6 (17 ref.)

Unsuspected subclavian vein stenosis resulting from a permanent pacing wire. Deighan CJ, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2333–4

Internal filtration--advantage in haemodialysis? Dellanna F, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:83–6

L-carnitine normalizes the reduced carnitine palmitoyl transferase activity in red cells from haemodialysis patients [letter] de los Reyes B, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1300–1

Adequacy of dialysis: trace elements in dialysis fluids. D'Haese PC, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:92–7 (34 ref.)

Treatment of beta 2-microglobulin amyloidosis by extracorporeal therapies other than haemodialysis, by medication and by surgery. Drüeke TB. **Nephrol Dial Transplant** 1996;11 Suppl 2:150–3 (25 ref.)

Delayed referral for dialysis [editorial] Eadington DW. **Nephrol Dial Transplant** 1996 Nov;11(11):2124–6 (10 ref.)

Relationship of ambulatory blood pressure monitoring data to echocardiographic findings in haemodialysis patients. Ertürk S, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2050–4

Influence of hepatitis C virus (HCV) viraemia upon serum aminotransferase activity in chronic dialysis patients. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1394–8

Intradermal versus intramuscular hepatitis b re-vaccination in non-responsive chronic dialysis patients: a prospective randomized study with cost-effectiveness evaluation. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Jun; 12(6):1204–11

Response to the hepatitis B virus vaccine in haemodialysis patients: influence of malnutrition and its importance as a risk factor for morbidity and mortality [see comments] Fernández E, et al. **Nephrol Dial Transplant** 1996 Aug; 11(8):1559–63. Comment in: Nephrol Dial Transplant 1997 Mar;12(3):623–4.

Chronic metabolic correction in haemodialysed patients actually has a direct suppressive effect on PTH secretion. Another view of published data [letter; comment] Fournier A, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):627. Comment on: Nephrol Dial Transplant 1995;10(6):821–4.

Renal replacement therapy in Japan: better outcome than in the USA [comment; comment] Friedman E. **Nephrol Dial Transplant** 1996 Nov;11(11):2154. Comment on: Nephrol Dial Transplant 1996 Nov;11(11):2139–42.

Aeromonas hydrophila necrotizing fasciitis and gas gangrene in a diabetic patient on haemodialysis. Furusu A, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1730–4

Urea rebound and delivered Kt/V determination with a continuous urea sensor. Garred LJ, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):535–42

Biochemical markers for non-invasive diagnosis of hyperparathyroid bone disease and adynamic bone in patients on haemodialysis. Gerakis A, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2430–8

Validation in the sheep of an ultrasound velocity dilution technique for haemodialysis graft flow. Gleed RD, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1464–7

High flux dialysis membranes improve plasma lipoprotein profiles in patients with end-stage renal disease. Goldberg IJ, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:104–7

Mechanisms of intra-dialyser granulocyte activation: a sequential dialyser elution study. Grooteman MP, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):492–9

Protein catabolism in maintenance haemodialysis: the influence of the dialysis membrane. Gutierrez A. **Nephrol Dial Transplant** 1996;11 Suppl 2:108–11 (40 ref.)

Activation of human neutrophils after contact with cellulose-based haemodialysis membranes: intracellular calcium signalling in single cells. Hänsch GM, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2453–60

Type II diabetes mellitus and chronic renal insufficiency: renal transplantation or haemodialysis treatment? Hirschl MM. **Nephrol Dial Transplant** 1996;11 Suppl 9:98–9

Torsades de pointes during low-dosage sotalol therapy in haemodialysis patients [see comments] Huynh-Do U, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1153–4. Comment in: Nephrol Dial Transplant 1997 Feb;12(2):365.

Zinc in plasma and platelets in patients on regular haemodialysis [letter] Iotova P, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):370–1

Central venous catheters for haemodialysis: looking for optimal blood flow. Jean G, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1689–91

Multifrequency bioimpedance in assessment of dry weight in haemodialysis. Katzarski K, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:20–3

Monitoring of blood volume during haemodialysis treatment of acute renal and multiple organ failures. Katzarski KS. **Nephrol Dial Transplant** 1996;11 Suppl 8:20–3 (46 ref.)

Identifying the high-risk dialysis patient: what are the benefits? [editorial] Khan IH, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2176–8

Enhanced gene expression of scavenger receptor in peripheral blood monocytes from patients on cuprophane haemodialysis. Konishi Y, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1167–72

Angioaccess for haemodialysis, Tours, France, 3–5 June 1996. Konner K, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):357–60

The management of iron metabolism in recombinant human erythropoietin treated dialysis patients by Dutch nephrologists [news] Kooistra MP, et al. **Nephrol Dial Transplant** 1997 May;12(5):879–83

Pre-operative autologous blood donation in haemodialysis patients [letter] Kyriazis J, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2372–3

Effects of body core temperature reduction on haemodynamic stability and haemodialysis efficacy at constant ultrafiltration. Levin NW, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:31–4

Quality of water and dialysate in haemodialysis [editorial] Lonnemann G, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):946–9

Correlation of whole blood activated partial thromboplastin time and plasma activated partial thromboplastin time in haemodialysis patients [letter] Low CL, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2523

Ethical problems in dialysis and transplantation. Maiorca R, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:100–12

Predictive value of dialysis adequacy and nutritional indices for mortality and morbidity in CAPD and HD patients. A longitudinal study. Maiorca R, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2295–305

Differing dialysis treatment strategies and outcome. Maiorca R, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:134–9 (22 ref.)

Vena cava diameter measurement for estimation of dry weight in haemodialysis patients. Mandelbaum A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:24–7

Recombinant human erythropoietin (epoetin) and autologous blood transfusion in chronic haemodialysed patients: two observations [letter] Montagnac R, et al.

Nephrol Dial Transplant 1997 Apr;12(4):854

Renal replacement therapy in a disaster area: the Hanshin earthquake experience (invited report) [news] Naito H. **Nephrol Dial Transplant** 1996 Nov;11(11):2135–8

The effect of sodium and ultrafiltration modelling on plasma volume changes and haemodynamic stability in intensive care patients receiving haemodialysis for acute renal failure: a prospective, stratified, randomized, cross-over study. Paganini EP, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:32–7

How to manage the dialysis patient with chronic viral hepatitis who is considered for renal transplantation [editorial] Paparella M, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2122–4 (10 ref.)

Implications of cytokine measurements during in vitro and clinical haemodialysis. Pereira BJ. **Nephrol Dial Transplant** 1995;10 Suppl 10:18–26 (112 ref.)

Electrolyte modelling: sodium. Is dialysate sodium profiling actually useful? Petitclerc T, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:35–8 (21 ref.)

Effectiveness and tolerance of interferon-alpha 2b in the treatment of chronic hepatitis C in haemodialysis patients. Pol S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:58–61

Peritoneal dialysis and haemodialysis: are they comparable? Prichard SS. **Nephrol Dial Transplant** 1997;12 Suppl 1:65–7 (18 ref.)

Hepatitis E virus (HEV) infection in haemodialysis patients. The Multicentre Haemodialysis Cohort Study on Viral Hepatitis. Psichogiou M, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1093–5

Ethylene oxide allergy in dialysis patients. Purello D'Ambrosio F, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1461–3

Sodium profiling in elderly haemodialysis patients. Raja RM. **Nephrol Dial Transplant** 1996;11 Suppl 8:42–5 (16 ref.)

Electrolyte modelling in haemodialysis—potassium. Redaelli B. **Nephrol Dial Transplant** 1996;11 Suppl 2:39–41

Early increase in blood nitric oxide, detected by electron paramagnetic resonance as nitrosylhaemoglobin, in haemodialysis. Roccatello D, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):292–7

Measurement of effective delivery of the prescribed dialysis treatment. Ronco C, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 2:68–74 (19 ref.)

Blood volume monitoring and control. Santoro A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:42–7 (18 ref.)

On-line urea kinetics in haemodiafiltration. Santoro A, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1084–92

Treatment with erythropoietin and loss of dialyser clearance. Schaefer RM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:81–2 (10 ref.)

Excess of DD homozygotes in haemodialysed patients with type II diabetes. The Diabetic Nephropathy Study Group. Schmidt S, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):427–9

Current status of renal replacement therapy in Japan: results of the annual survey of the Japanese Society for Dialysis Therapy [news] [corrected and republished in Nephrol Dial Transplant 1997 May;12(5):889–98] Shinzato T, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2143–50

Survival in long-term haemodialysis patients: results from the annual survey of the Japanese Society for Dialysis Therapy [news] [see comments] [corrected and republished in Nephrol Dial Transplant 1997 May;12(5):884–8] Shinzato T, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2139–42 . Comment in: Nephrol Dial Transplant 1996 Nov;11(11):2154.

The adjustment of post-dialysis dry weight based on non-invasive measurements in children. Sönmez F, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1564–7

Safety of intravenous injection of iron saccharate in haemodialysis patients. Sunder-Plassmann G, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1797–802

The dilemma of evaluating iron status in dialysis patients—limitations of available diagnostic procedures. Sunder-Plassmann G, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1575–80

Pharmacokinetics of carboplatin and etoposide in a haemodialysis patient with Merkel-cell carcinoma. Suzuki S, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):137–40

Recirculation and the post-dialysis rebound. Tattersall JE, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:75–80

Regular low-dose intravenous iron therapy improves response to erythropoietin in haemodialysis patients. Taylor JE, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1079–83

Decrease in the haemoglobin level in haemodialysis patients undergoing antiandrogen therapy. Teruel JL, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1262–3

How to prescribe optimal haemodialysis. Valderrábano F, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:60–7 (57 ref.)

Haemodialysis therapy in the elderly. Vandelli L, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:89–94 (21 ref.)

Endothelium-dependent vasodilatation and distensibility of large arteries in chronic haemodialysis patients. van Guldener C, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:14–8

Aluminium speciation in cerebrospinal fluid of acutely aluminium-intoxicated dialysis patients before and after desferrioxamine treatment; a step in the understanding of the element's neurotoxicity. Van Landeghem GF, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1692–8

Successful haemodialysis in sotalol-induced torsade de pointes in a patient with progressive renal failure. van Uum SH, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):331–3

beta 2-Microglobulin amyloidosis: effect of ESRF treatment modality and dialysis membrane type. Van Ypersele de Strihou C. **Nephrol Dial Transplant** 1996;11 Suppl 2:147–9

Volume sensitivity of blood pressure in end-stage renal disease. Ventura JE, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):485–91

Hydrodynamic thrombectomy of haemodialysis grafts and fistulae: results of 51 procedures. Vorwerk D, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1058–64

Serum ionic fluoride levels in haemodialysis and continuous ambulatory peritoneal dialysis patients. al-Wakeel JS, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1420–4

Effect of treatment with simvastatin on serum cholesteryl ester transfer in patients on dialysis. PERFECT Study Collaborative Group. Walker RJ, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):87–92

Subclinical pulmonary oedema and intermittent haemodialysis. Wallin CJ, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2269–75

Assessment of dry weight in haemodialysis patients by the volume markers ANP and cGMP. Wolfram G, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:28–30 (13 ref.)

The effect of arteriovenous fistulae in haemodialysis patients on whole body and segmental bioelectrical impedance. Woodrow G, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):524–7

Pruritus and skin hydration during dialysis [letter] Yosipovitch G, et al. **Nephrol Dial Transplant** 1997 Aug; 12(8):1769–70

A clinical correlative study of bone densitometric changes in hemodialysis patients with hyperparathyroidism [letter] Adam B, et al. **Nephron** 1996;74(2):483–4

Effect of intravenous recombinant erythropoietin administration on plasma and erythrocyte magnesium concentrations in patients on hemodialysis [letter] Allegra A, et al. **Nephron** 1996;74(2):499–500

Increased susceptibility to membrane lipid peroxidation in renal failure. Anderton JG, et al. **Nephron** 1996;74(2):373–7

Intravenous calcitriol therapy restores reduced antigen-induced T-lymphocyte response in 1,25-(OH)2D3-deficient hemodialysis patients. Antonen J, et al. **Nephron** 1996;74(4):680–6

Clonidine removal by hemoperfusion in a uremic patient [letter] Bertoli M. **Nephron** 1996;72(1):117–8

Agreement between the classical urea kinetic model and direct dialysis quantification: importance of urea rebound. Bosticardo GM, et al. **Nephron** 1996;74(4):674–9

Long-term effects of intravenous 1 alpha (OH)D3 combined with CaCO3 and low-calcium dialysis on secondary hyperparathyroidism and biochemical bone markers in patients on chronic hemodialysis. Brandi L, et al. **Nephron** 1996;74(1):89–103

Release of thyroid hormones from protein-binding sites by low-molecular-weight heparin in hemodialysis patients [letter] Brodersen HP, et al. **Nephron** 1997;75(3):366–7

Death from suicide and discontinuation of renal replacement therapy: 23-years' clinical experience [letter] Catalano C, et al. **Nephron** 1996;73(4):737–8

Seroprevalence of hepatitis E in hemodialysis patients in Turkey [letter] Cengiz K, et al. **Nephron** 1996;74(4):730

Does recombinant human erythropoietin affect plasma lipids in hemodialysis patients? [letter] Cengiz K. **Nephron** 1996; 74(4):731–2

The incidence and significance of increased backscatter in myocardial ultrasonography of patients on hemodialysis. Cetinkaya F, et al. **Nephron** 1996;73(2):191–4

Superinfection with hepatitis C virus in hemodialysis patients with hepatitis B surface antigenemia: its prevalence and clinical significance in Taiwan. Chen KS, et al. **Nephron** 1996;73(2):158–64

A case study of inappropriate idiopathic erythropoietin production in a patient on regular hemodialysis for 10 years: is beetjuice a factor? [letter] Dalmak S, et al. **Nephron** 1997; 75(1):118

Leukocyte CD14 and CD45 expression during hemodialysis: polysulfone versus cuprophane. Dhondt AW, et al. **Nephron** 1996;74(2):342–8

Effects of hand dominance and sleep side preference on hemodialysis vascular access survival. Diskin CJ, et al. **Nephron** 1996;74(4):724–8

The importance of delay in cannulation after hemodialysis vascular access surgery [letter] Diskin CJ, et al. **Nephron** 1996;74(1):245–9

Impact of profile haemodialysis on intra-/extracellular fluid shifts and the release of vasoactive hormones in elderly patients on regular dialysis treatment. Ebel H, et al. **Nephron** 1997;75(3):264–71

Are the increased Lp(a) levels in hemodialysis patients related to glucose intolerance and hemodialysis duration? [letter] Elisaf M, et al. **Nephron** 1996;74(3):623–4

Is interdialytic blood pressure profile related to structural changes of arteries in haemodialysis patients [letter] Fabbian F, et al. **Nephron** 1996;74(2):491–2

Page kidney in a hemodialyzed patient [letter; comment] Faubert PF, et al. **Nephron** 1997;76(3):351. Comment on: Nephron 1996;72(1):106–7.

Adequacy of dialysis estimated by urea kinetics in children: is there a benefit from a larger dialysis dosis? [letter] Fischback M, et al. **Nephron** 1996;72(1):104–5

Is aluminum toxicity responsible for uremic pruritus in chronic hemodialysis patients? Friga V, et al. **Nephron** 1997; 75(1):48–53

Evolution of anemia of chronic renal failure after the treatment of hyperparathyroidism [letter] Garcia-Canton C, et al. **Nephron** 1996;74(2):444–5

Iron absorption in patients with chronic uremia on maintenance hemodialysis and in healthy volunteers measured with a simple oral iron load test. Goch J, et al. **Nephron** 1996;73(3):403–6

Activated clotting time is not a sensitive parameter to monitor anticoagulation with low molecular weight heparin in hemodialysis. Greiber S, et al. **Nephron** 1997; 76(1):15–9

Hepatitis E seroprevalence in dialysis in southern Reunion Island [letter] Guiserix J, et al. **Nephron** 1996;74(1):230

Prevalence of Epstein-Barr virus antibody in the chronic hemodialysed population in the south of the Reunion Island [letter] Guiserix J, et al. **Nephron** 1996;74(2):475

Measurement of recirculation without peripheral venipuncture [letter] Guiserix J, et al. **Nephron** 1997; 76(2):242

Inhibition of the accumulation of uremic toxins in the blood and their precursors in the feces after oral administration of Lebenin, a lactic acid bacteria preparation, to uremic patients undergoing hemodialysis. Hida M, et al. **Nephron** 1996;74(2):349–55

Hemodialysis immediately after acute myocardial infarction. Ifudu O, et al. **Nephron** 1996;74(1):104–9

Polymorphonuclear cells in chronic hemodialysis patients have intact phagocytotic and impaired bactericidal activities. Iida T, et al. **Nephron** 1997;75(1):41–7

A study on regulating factors of plasma refilling during hemodialysis. Iimura O, et al. **Nephron** 1996;74(1):19–25

Kobe earthquake and the patients on hemodialysis [letter] Inui A, et al. **Nephron** 1996;74(4):733

Increased risk of cardiovascular disease with erythropoietin in chronic dialysis patients [see comments] Iseki K, et al. **Nephron** 1996;72(1):30–6. Comment in: Nephron 1997;76(1):116; discussion 117.

Seasonal changes in vitamin A and beta-carotene levels in chronic hemodialysis patients [letter] Kavukçu S, et al. **Nephron** 1996;74(2):466–7

Acute hypotension and shock in the hyperkalemic patient on maintenance haemodialysis [letter] Kes P, et al. **Nephron** 1996;72(3):484–6

Calcium-free hemodialysis for the management of hypercalcemia. Koo WS, et al. **Nephron** 1996;72(3):424–8

Blood rheology after renal transplantation. Koppensteiner R, et al. **Nephron** 1996;74(2):328–32

Frequency of Helicobacter pylori infection in uremic hemodialyzed patients with antral gastritis [letter] Krawczyk W, et al. **Nephron** 1996;74(3):621–2

Human erythropoietin improves blood plasma phospholipids concentration in chronically hemodialyzed patients [letter] Krawczyk W, et al. **Nephron** 1996;72(1):109–10

Immunogenicity and efficacy of hepatitis B vaccination in Indian chronic renal failure patients on hemodialysis and after renal transplantation [letter] Krishnamurthy G, et al. **Nephron** 1996;74(2):424–5

Liver blood flow in chronic hemodialysis patients. Leblanc M, et al. **Nephron** 1996;73(3):396–402

Recanalization of thrombosed hemodialysis shunt by venous transposition [letter] Leone G, et al. **Nephron** 1996;72(1):108

Is hepatitis C virus RNA detectable in dialysis ultrafiltrate? [letter] Manzini P, et al. **Nephron** 1996;72(1):102–3

Anaphylactoid reaction induced by nafamostat mesilate in a hemodialysis patient [letter] Maruyama H, et al. **Nephron** 1996;74(2):468–9

High prevalence of hepatitis E virus antibodies in Spanish hemodialysis patients [letter] Mateos ML, et al. **Nephron** 1997;76(2):231–2

Serum ferritin level in hemodialysis patients [letter] Meisels IS, et al. **Nephron** 1996;72(3):496

L-carnitine does not alleviate uremic pruritus in hemodialysis patients [letter] Mettang T, et al. **Nephron** 1997;75(3):372

The treatment of chronic hemodialysis vascular access by directional atherectomy. Mizumoto D, et al. **Nephron** 1996; 74(1):45–52

Hospitalizations in dialysis end-stage renal failure patients. Morduchowicz G, et al. **Nephron** 1996;73(3):413–6

Decreased serum antioxidant activity of hemodialysis patients demonstrated by methylguanidine synthesis and microsomal lipid peroxidation. Nagase S, et al. **Nephron** 1996;74(3):555–60

Accumulation of indoxyl-beta-D-glucuronide in uremic serum: suppression of its production by oral sorbent and efficient removal by hemodialysis. Niwa T, et al. **Nephron** 1996;74(1):72–8

Remnant-like particle cholesterol may indicate atherogenic risk in patients on chronic hemodialysis. Oda H, et al. **Nephron** 1997;76(1):7–14

Plasma atrial natriuretic peptide, body weight and twenty-four-hour blood pressure monitoring in chronic hemodialysis patients. Ojanen S, et al. **Nephron** 1996; 73(2):174–8

Nutritional markers and survival in maintenance dialysis patients [editorial] Pollock CA, et al. **Nephron** 1996; 74(4):625–41 (176 ref.)

Combined chemotherapy and radiotherapy for esophageal carcinoma in a hemodialyzed patient. Long-term survival. Rebibou JM, et al. **Nephron** 1996;74(3):611–2

alpha-Ketoglutarate application in hemodialysis patients improves amino acid metabolism. Riedel E, et al. **Nephron** 1996;74(2):261-5

Creatine kinase subform analysis in hemodialysis patients without acute coronary syndromes. Robbins MJ, et al. **Nephron** 1997;76(3):296-9

Characteristics of anti-HCV antibody-positive patients with hepatocellular carcinoma on chronic hemodialysis: recommendation of periodic ultrasonography for early detection. Sakai Y, et al. **Nephron** 1996;74(2):386-9

Acute renal failure associated with mannitol infusion and reversal with ultrafiltration and hemodialysis [letter] Sakemi T, et al. **Nephron** 1996;73(4):733-4

Nosocomial hepatitis C in dialysis units [editorial] Sampietro M, et al. **Nephron** 1996;74(2):251-60 (123 ref.)

Needle pricks in dialysis population [letter] al Shohaib S. **Nephron** 1996;74(2):476

Intravenous ferric saccharate as an iron supplement in dialysis patients. Silverberg DS, et al. **Nephron** 1996;72(3):413-7

An index of plasma refilling in hemodialysis patients. Tabei K, et al. **Nephron** 1996;74(2):266-74

Autonomic dysfunction in hemodialysis patients with persistent hypotension. Takahashi H, et al. **Nephron** 1996; 72(3):418-23

Blood monitoring of bezafibrate in a chronic hemodialysis patient [letter] Takeda K, et al. **Nephron** 1997;76(4):487-8

Monocyte and granulocyte CD11b/CD18, CD62L expression and sICAM-1 concentration in the interdialytic period. Thylén P, et al. **Nephron** 1996;74(2):275-82

Detection of peptidoglycan and endotoxin in dialysate, using silkworm larvae plasma and limulus amebocyte lysate methods. Tsuchida K, et al. **Nephron** 1997;75(4):438-43

The effect of hemodialysis upon serum levels of fluoride. Usuda K, et al. **Nephron** 1997;75(2):175-8

GB virus C and hepatitis C virus infections in hemodialysis patients in eight Japanese centers. Watanabe T, et al. **Nephron** 1997;76(2):171-5

Coronary artery disease in dialysis patients. Wizemann V. **Nephron** 1996;74(4):642-51

High prevalence of hepatitis C virus antibody in patients with chronic renal failure at the start of hemodialysis therapy [letter] Yonemura K, et al. **Nephron** 1996;73(3):484-5

Adenohypophyseal-gonadal dysfunction in male haemodialyzed patients before and after subtotal parathyroidectomy. Zofková I, et al. **Nephron** 1996; 74(3):536-40

Management conditions during dialysis therapy influence the occurrence of complications after renal transplantation? Ueda H, et al. **Nippon Jinzo Gakkai Shi** 1996 Oct; 38(10):455-9

Phosphate end dialysis value: a misleading parameter of hemodialysis efficiency. French Society for Pediatric Nephrology. Fischbach M, et al. **Pediatr Nephrol** 1997 Apr; 11(2):193-5

Oxalate elimination via hemodialysis or peritoneal dialysis in children with chronic renal failure. Hoppe B, et al. **Pediatr Nephrol** 1996 Aug;10(4):488-92

Acquired renal cystic disease in children and young adults on maintenance dialysis. Mattoo TK, et al. **Pediatr Nephrol** 1997 Aug;11(4):447-50

Management of patients with hemolytic uremic syndrome demonstrating severe azotemia but not anuria. Schulman SL, et al. **Pediatr Nephrol** 1996 Oct;10(5):671-4

Calcium acetate versus calcium carbonate as oral phosphate binder in pediatric and adolescent hemodialysis patients. Wallot M, et al. **Pediatr Nephrol** 1996 Oct;10(5):625-30

Insulin resistance in uremia: effect of dialysis modality. Mak RH. **Pediatr Res** 1996 Aug;40(2):304-8

XVIth Annual Conference on Peritoneal Dialysis. Seattle, Washington, February 21-23, 1996. Abstracts. **Perit Dial Int** 1996;16 Suppl 2:S1-106

Long-term outcomes of peritoneal dialysis. Cancarini GC, et al. **Perit Dial Int** 1997;17 Suppl 2:S115-8 (16 ref.)

The removal index for evaluation of dialysis. Chen TW, et al. **Perit Dial Int** 1996 Mar-Apr;16(2):128-34

Should growth hormone be used in dialysis-dependent children? [editorial] Geary DF. **Perit Dial Int** 1996 Nov-Dec;16(6):551-2

The CANUSA study. Canada-USA. Gotch FA. **Perit Dial Int** 1997;17 Suppl 2:S111-4

Chronic induction of C-reactive protein by hemodialysis, but not by peritoneal dialysis therapy. Haubitz M, et al. **Perit Dial Int** 1996 Mar-Apr;16(2):158-62

The referral pattern of patients with ESRD is a determinant in the choice of dialysis modality. Lameire N, et al. **Perit Dial Int** 1997;17 Suppl 2:S161-6

Low prevalence of vancomycin-resistant Enterococcus in dialysis outpatients with a history of vancomycin use [letter] Low CL, et al. **Perit Dial Int** 1996 Nov-Dec; 16(6):651-2

Plasticizers in renal failure: aspects of metabolism and toxicity. Mettang T, et al. **Perit Dial Int** 1997;17 Suppl 2:S31-6 (34 ref.)

Personal dialysis capacity. Rippe B. **Perit Dial Int** 1997;17 Suppl 2:S131-4

Body surface area limitations in achieving adequate therapy in peritoneal dialysis patients. Rocco MV. **Perit Dial Int** 1996 Nov-Dec;16(6):617-22

Integration of peritoneal dialysis in active uremia treatment. Ronco C, et al. **Perit Dial Int** 1997;17 Suppl 2:S155-60 (9 ref.)

Peritoneal dialysis by twin bags is a good alternative to hemodialysis for sparsely populated areas [letter] Stegmayr BG, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):95-6

Divergent effects of hemodialysis and continuous ambulatory peritoneal dialysis on cardiac diastolic function. Weiss G, et al. **Perit Dial Int** 1997 Jul-Aug;17(4):353-9

Gastric antral vascular ectasia in a patient on hemodialysis improved with CAPD [see comments] Yorioka N, et al. **Perit Dial Int** 1996 Mar-Apr;16(2):177-8. Comment in: Perit Dial Int 1996 Sep-Oct;16(5):536.

Hemodialysis increases the preference for salt in soup. Leshem M, et al. **Physiol Behav** 1997 Jan;61(1):65-9

Arteriovenous shunts for hemodialysis: a useful clinical progression from the microsurgical laboratory [letter] Lim LH, et al. **Plast Reconstr Surg** 1997 Sep;100(3):809-10

Aggressive lithium treatment for mania in a hemodialysis patient with end-stage renal disease [letter] Quentzel SJ, et al. **Psychosomatics** 1997 Jul-Aug;38(4):398-9

Survivors of acute renal failure who do not recover renal function [see comments] Bhandari S, et al. **QJM** 1996 Jun; 89(6):415-21. Comment in: QJM 1996 Jun;89(6):397-9.

NHP or SIP--a comparative study in renal insufficiency associated anemia. Essink-Bot ML, et al. **Qual Life Res** 1996 Feb;5(1):91-100

Occluded hemodialysis shunts: Dutch multicenter experience with the hydrolyser catheter. Overbosch EH, et al. **Radiology** 1996 Nov;201(2):485-8

Upper extremity central venous obstruction in hemodialysis patients: treatment with Wallstents. Vesely TM, et al. **Radiology** 1997 Aug;204(2):343-8

Hemodialysis fistulas and grafts: use of cutting balloons to dilate venous stenoses. Vorwerk D, et al. **Radiology** 1996 Dec;201(3):864-7

Systolic function impairment in higher erythropoietin requirement patients in hemodialysis. Trovato GM, et al. **Recenti Prog Med** 1997 May;88(5):217-22

A simple prognostic index for patients with acute renal failure requiring dialysis. French Multicentric Prospective Study on Furosemide in Acute Renal Failure Requiring Dialysis. Cantarovich F, et al. **Ren Fail** 1996 Jul;18(4):585-92

Evaluation of the hypothalamic-pituitary axis in uremic males using dynamic tests. The possible role of testicular inhibin: a preliminary report. Chryssicopoulos A, et al. **Ren Fail** 1996 Nov;18(6):911-21

Effect of oral L-carnitine on serum myoglobin in hemodialysis patients. Feinfeld DA, et al. **Ren Fail** 1996 Jan;18(1):91-6

Hemodialysis exacerbates enzymuria in patients with acute renal failure: brief report. Fink JC, et al. **Ren Fail** 1996 Nov;18(6):947-50

Superoxide dismutase and catalase activities in patients undergoing hemodialysis and continuous ambulatory peritoneal dialysis. Hernández de Rojas A, et al. **Ren Fail** 1996 Nov;18(6):937-46

Oral glucose tolerance test after high-dose i.v. biotin administration in normoglucemic hemodialysis patients. Koutsikos D, et al. **Ren Fail** 1996 Jan;18(1):131-7

Hemodialysis in the treatment of acute renal failure in tropical Africa: a 20-year review at the Korle Bu Teaching Hospital, Accra. Mate-Kole MO, et al. **Ren Fail** 1996 May; 18(3):517-24

Acute renal failure in patients with kidney transplant: continuous versus intermittent renal replacement therapy. Ronco C, et al. **Ren Fail** 1996 May;18(3):461-70 (36 ref.)

Acute renal failure caused by nontraumatic rhabdomyolysis. Tozzo C, et al. **Ren Fail** 1997 May;19(3):439-42

Different types of dialyzer membranes: does the bio(in)compatibility matter in the treatment of ARF? Vanholder R, et al. **Ren Fail** 1996 May;18(3):471-9 (42 ref.)

Complete success of intradermal vaccination against hepatitis B in advanced chronic renal failure and hemodialysis patients. Vlassopoulos D, et al. **Ren Fail** 1997 May; 19(3):455-60

Multifrequency impedance in the assessment of body water losses during dialysis [comment] Ward LC, et al. **Ren Physiol Biochem** 1995 Sep-Oct;18(5):267-70. Comment on: Ren Physiol Biochem 1994 Nov-Dec;17(6):326-32.

Measurement of body composition changes during hemodialysis by bioimpedance analysis. Morais AA, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Jul-Aug; 51(4):121-3

Activation of FXII during haemodialysis. Svensson M, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):649-52

Effects of haemodialysis session on plasma beta-endorphin, ACTH and cortisol in patients with end-stage renal disease. Letizia C, et al. **Scand J Urol Nephrol** 1996 Oct; 30(5):399-402

Better response to s.c. erythropoietin in CAPD than HD patients. Stegmayr BG. **Scand J Urol Nephrol** 1997 Apr; 31(2):183-7

Androgen therapy for anaemia of chronic renal failure. Indications in the erythropoietin era. Teruel JL, et al. **Scand J Urol Nephrol** 1996 Oct;30(5):403-8

Effects of androgen therapy on prostatic markers in hemodialyzed patients. Teruel JL, et al. **Scand J Urol Nephrol** 1996 Apr;30(2):129-31

Dialysis in schizophrenia: successful only in a subtype? [letter] Reichelt KL. **Schizophr Res** 1996 May;19(2-3):223-4

Vigabatrin dosing during haemodialysis. Bachmann D, et al. **Seizure** 1996 Sep;5(3):239-42

Optimizing the treatment of the dialysis patient: a painful lesson. Depner TA. **Semin Nephrol** 1997 Jul;17(4):285-97 (103 ref.)

Practical ethical issues of dialysis in the elderly. Grapsa I, et al. **Semin Nephrol** 1996 Jul;16(4):339-52 (155 ref.)

Acute dialysis and continuous renal replacement: the emergence of new technology involving the nephrologist in the intensive care setting. Yagi N, et al. **Semin Nephrol** 1997 Jul;17(4):306-20 (126 ref.)

Minimizing digoxin-like immunoreactivity with TDx digoxin in dialysis patients [letter] Martín-Suárez A, et al. **Ther Drug Monit** 1997 Jun;19(3):364-5

The anticoagulant and hemorrhagic effects of DHG, a new depolymerized holothurian glycosaminoglycan, on experimental hemodialysis in dogs. Minamiguchi K, et al. **Thromb Haemost** 1997 Jun;77(6):1148-53

Pharmacokinetics of recombinant hirudin in hemodialyzed end-stage renal failure patients. Vanholder R, et al. **Thromb Haemost** 1997 Apr;77(4):650-5

Tissue factor pathway inhibitor (TFPI) activity in uremic patients during hemodialysis. Cella G, et al. **Thromb Res** 1996 Mar 15;81(6):671-7

Radioiodine treatment of thyroid carcinoma in patients on maintenance hemodialysis. Daumerie C, et al. **Thyroid** 1996 Aug;6(4):301-4

Successful treatment of a patient with Graves' disease on hemodialysis complicated by antithyroid drug-induced granulocytopenia and angina pectoris. Miyasaka Y, et al. **Thyroid** 1997 Aug;7(4):621-4

Mycophenolate mofetil in patients with acute renal failure: evidence of metabolite (MPAG) accumulation and removal by dialysis. Zanker B, et al. **Transpl Int** 1996;9 Suppl 1:S308-10

Comparative study of chronic ambulatory peritoneal dialysis versus hemodialysis patients after kidney transplantation: clinical and financial assessment. Binaut R, et al. **Transplant Proc** 1997 Aug;29(5):2428

Comparative study of infection in renal allograft recipients and patients in regular dialysis treatment. Boni RC, et al. **Transplant Proc** 1996 Dec;28(6):3376

Living donor kidney transplantation in predialysis patients: experience of marginal donors in Europe and the United States. Donnelly P, et al. **Transplant Proc** 1996 Dec; 28(6):3566-70

Prevalence and seroconversion to HCV in hemodialyzed patients, and epidemiological factors. Morales MF, et al. **Transplant Proc** 1996 Dec;28(6):3402-5

Blood levels of chromium in diabetic and nondiabetic hemodialysis patients. Romero RA, et al. **Transplant Proc** 1996 Dec;28(6):3382-4

Impairment of DNA repair in the course of long-term hemodialysis and under cyclosporine immunosuppression after renal transplantation. Vamvakas S, et al. **Transplant Proc** 1996 Dec;28(6):3468-73

Dialysis treatment in children with amyloidosis due to juvenile rheumatoid arthritis. Sieniawska M, et al. **Turk J Pediatr** 1996 Jan-Mar;38(1):59-66

Hepatitis B vaccine in hemodialysis patients with hepatitis C viral infection. Cheng CH, et al. **Vaccine** 1997 Aug-Sep; 15(12-13):1353-7

Reversal of blood flow direction for the salvage of forearm straight and looped ePTFE-shunts. Mickley V, et al. **Vasa** 1996;25(3):257-60

Hemodialysis and hemoperfusion for treatment of valproic acid and gabapentin poisoning. Fernandez MC, et al. **Vet Hum Toxicol** 1996 Dec;38(6):438-43

Hepatitis E virus in haemodialysis [letter] Wang CH, et al. **Vox Sang** 1997;73(1):54-5

Antioxidant status in patients on chronic hemodialysis therapy: impact of parenteral selenium supplementation [see comments] Koenig JS, et al. **Wien Klin Wochenschr** 1997 Jan 17;109(1):13-9. Comment in: Wien Klin Wochenschr 1997 Jan 17;109(1):3-6.

Anticoagulation with r-hirudin in regular haemodialysis with heparin-induced thrombocytopenia (HIT II). The first long-term application of r-hirudin in a haemodialysis patient [see comments] Nowak G, et al. **Wien Klin Wochenschr** 1997 May 23;109(10):354-8. Comment in: Wien Klin Wochenschr 1997 May 23;109(10):343-5.

[Antioxidants and malondialdehyde during hemodialysis with cellulose diacetate and polysulfone membranes] Eiselt J, et al. **Cas Lek Cesk** 1996 Nov 6;135(21):691-4 (Eng. Abstr.) **(Cze)**

[Stenosis and thrombosis of the central venous tract as a cause of manifestations of venous hypertension after establishment of an arteriovenous anastomosis for hemodialysis] Bachleda P, et al. **Rozhl Chir** 1996 Oct; 75(10):492-5 (Eng. Abstr.) **(Cze)**

[Transposition of the basilic vein in the arm for vascular access in hemodialysis] Lindner J. **Rozhl Chir** 1997 Mar; 76(3):126-8 (Eng. Abstr.) **(Cze)**

[Methods of continuous extracorporeal replacement of renal function] Opatrný K Jr. **Vnitr Lek** 1996 Dec;42(12):818-24 (Eng. Abstr.) **(Cze)**

[Iron supplementation during erythropoietin therapy in patients on hemodialysis] Svára F, et al. **Vnitr Lek** 1996 Dec;42(12):849-52 (Eng. Abstr.) **(Cze)**

[Hepatitis C virus in hemodialysis patients and blood donors in Lebanon] Naman RE, et al. **J Med Liban** 1996;44(1):4-9 (Eng. Abstr.) **(Fre)**

[Relative depletion in native vitamin D: a potential risk factor in Algerian hemodialysis patients with radiological evidence of hyperparathyroidism and osteomalacia independent of calcitriolemia] Atik A, et al. **Nephrologie**

1997;18(2):47–52 (Eng. Abstr.) **(Fre)**

[Pregnancy in chronic hemodialysis] Guiserix J. **Nephrologie** 1996;17(5):297–301 (Eng. Abstr.) **(Fre)**

[Clinical significance of detection and quantification of hepatitis C virus RNA in hemodialysis: proposal for a rational diagnostic strategy] Halfon P, et al. **Nephrologie** 1997;18(2):53–8 (Eng. Abstr.) **(Fre)**

[Diabetes, dialysis, health costs (editorial)] Laville M. **Nephrologie** 1996;17(6):319–20 (13 ref.) **(Fre)**

[Recombinant human erythropoietin (epoetin) and autologous blood transfusion in chronic hemodialysis. Apropos of 2 cases] Montagnac R, et al. **Nephrologie** 1997;18(1):23–6 (Eng. Abstr.) **(Fre)**

[Hepatitis c virus infection in dialysis: necessity of prevention and screening] Poignet JL. **Nephrologie** 1997;18(2):39–40 **(Fre)**

[Alkaline phosphatase of bone origin in hemodialyzed patients. 110 assays] Ureña P, et al. **Presse Med** 1996 Oct 5;25(29):1320–5 (Eng. Abstr.) **(Fre)**

[Surgery in chronically dialysed kidney failure patients] **Prog Urol** 1996 Oct;6(5):687–712 (147 ref.) **(Fre)**

[Heparin-associated platelet aggregation syndrome with skin necrosis during hemodialysis] Bredlich RO, et al. **Dtsch Med Wochenschr** 1997 Mar 14;122(11):328–32 (Eng. Abstr.) **(Ger)**

[Therapy of the patient with chronic renal failure. A study from general practice of an ambulatory dialysis center] Urban B. **Fortschr Med** 1996 Oct 20;114(29):380 **(Ger)**

[Porphyria cutanea tarda in a long-term hemodialysis patient] Földes M, et al. **Hautarzt** 1996 Dec;47(12):932–5 (Eng. Abstr.) **(Ger)**

[Malnutrition in hemodialysis patients. Self-assessment, medical evaluation and "verifiable" parameters] Kuhlmann MK, et al. **Med Klin** 1997 Jan 15;92(1):13–7 (Eng. Abstr.) **(Ger)**

[Coronary risk factors in chronic hemodialysis patients] Lübbecke F, et al. **Med Klin** 1996 Nov 15;91(11):687–93 (Eng. Abstr.) **(Ger)**

[At a glance--joint amyloidosis in a dialysis patient] **Schweiz Med Wochenschr** 1996 Dec 28;126(51–52):2244 **(Ger)**

[Ultrasound diagnosis of soft tissue changes in dialysis-associated amyloidosis] Rapp-Bernhardt U, et al. **Ultraschall Med** 1997 Apr;18(2):91–4 (Eng. Abstr.) **(Ger)**

[The clinical significance of renal cell carcinoma in dialysis dependent patients in comparison with kidney transplant recipients] Wiesel M, et al. **Urologe A** 1997 Mar;36(2):126–9 (Eng. Abstr.) **(Ger)**

[Systemic inflammatory reactions to extracorporeal therapy measures (I): Hemodialysis and hemofiltration] Schlee H, et al. **Wien Klin Wochenschr** 1997 May 9;109(9):301–11 (78 ref.) (Eng. Abstr.) **(Ger)**

[Superinfection with multi-resistant Staphylococcus aureus of the hand caused by shunt vein occlusion in a dialysis patient] Hoch J, et al. **Zentralbl Chir** 1996;121 Suppl:79–81 **(Ger)**

[Risk of infection and wound healing disorders in dialysis patients] Zimmermann J, et al. **Zentralbl Chir** 1996;121 Suppl:58–60 (14 ref.) **(Ger)**

[The effect of calcitriol on renal anemia in patients under chronic hemodialysis] Abou-Khalil N, et al. **Orv Hetil** 1996 Jul 7;137(27):1469–72 (Eng. Abstr.) **(Hun)**

[ACE inhibitor therapy of hemodialyzed patients] Pató E, et al. **Orv Hetil** 1997 Jul 27;138(30):1903–7 (26 ref.) (Eng. Abstr.) **(Hun)**

[Effect of dialysis on Na+/K+-ATP-ase activity in uremic children] Vásárhelyi B, et al. **Orv Hetil** 1996 Oct 6; 137(40):2193–6 (Eng. Abstr.) **(Hun)**

["Banding" of the venous side of an arteriovenous fistula for hemodialysis complicated with steal syndrome: a clinical case] Staniscia G, et al. **Ann Ital Chir** 1997 Mar-Apr; 68(2):241–3 (Eng. Abstr.) **(Ita)**

[Hand ischemia due to "steal syndrome" in vascular access for hemodialysis] Porcellini M, et al. **G Chir** 1997 Jan-Feb; 18(1–2):27–30 (Eng. Abstr.) **(Ita)**

[Heart surgery with cardiopulmonary bypass in patients on chronic dialysis treatment: our experience] Galli R, et al. **G Ital Cardiol** 1996 Sep;26(9):1025–30 (Eng. Abstr.) **(Ita)**

[Relationship between late ventricular potentials and ventricular arrhythmias in patients in chronic dialysis treatment] Pomini G, et al. **Minerva Cardioangiol** 1997 Apr; 45(4):155–65 (Eng. Abstr.) **(Ita)**

[Coagulation in hemodialysis] Camici M, et al. **Minerva Med** 1996 Nov;87(11):509–14 (Eng. Abstr.) **(Ita)**

[Luteinizing hormone-releasing hormone for prostate cancer in a hemodialysis patient: a case report] Mizusawa H, et al. **Hinyokika Kiyo** 1997 Jun;43(6):421–3 (Eng. Abstr.) **(Jpn)**

[Changes in the extent of mitral regurgitation during hemodialysis: color Doppler echocardiographic study] Tamano K, et al. **J Cardiol** 1997 Jan;29(1):29–36 (Eng. Abstr.) **(Jpn)**

[A case report of active infectious endocarditis caused by MRSA with chronic renal failure] Egoh Y, et al. **Kyobu Geka** 1996 Jul;49(8 Suppl):677–9 (Eng. Abstr.) **(Jpn)**

[Postoperative immunological capacity after coronary artery bypass grafting in a patient with chronic hemodialysis: comparison with data from patients without chronic hemodialysis] Shirasawa B, et al. **Kyobu Geka** 1996 Sep; 49(10):809–12 (Eng. Abstr.) **(Jpn)**

[Perioperative management of uremia and fluid balance in patients with compromised renal function undergoing open heart surgery] Tanaka S, et al. **Kyobu Geka** 1997 Apr; 50(4):286–91 (Eng. Abstr.) **(Jpn)**

[Surgical treatment to the lung cancer in a patient receiving hemodialysis] Yamamoto N, et al. **Kyobu Geka** 1996 Aug; 49(9):787–90 (Eng. Abstr.) **(Jpn)**

[Cesarean section under spinal anesthesia for a patient with chronic renal failure] Azuma K, et al. **Masui** 1996 Jul; 45(7):880–3 (Eng. Abstr.) **(Jpn)**

[Intra-operative management during laparotomy for patients under hemodialysis] Horibe M, et al. **Masui** 1996 Sep; 45(9):1135–9 (Eng. Abstr.) **(Jpn)**

[Measurement of relative plasma volume and plasma refilling rate during ultrafiltration of hemodialysis by measuring apparatus of plasma colloidal osmotic pressure] Abe R, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jul;88(7):684–93 (Eng. Abstr.) **(Jpn)**

[Serum levels of remnant-like particles-cholesterol (RLP-C) in patients on hemodialysis] Hamada C, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug;38(8):329–34 (Eng. Abstr.) **(Jpn)**

[Continuous ambulatory peritoneal dialysis ameliorated metabolic disturbances of a patient with chronic renal failure caused by glycogen storage disease type I] Hayakawa H, et al. **Nippon Jinzo Gakkai Shi** 1996 Nov; 38(11):530–4 (Eng. Abstr.) **(Jpn)**

[Two cases of autosomal dominant polycystic kidney disease treated with hemodialysis associated with polycystic liver complications related to the cause of death] Saima S, et al. **Nippon Jinzo Gakkai Shi** 1996 Jun;38(6):278–84 (Eng. Abstr.) **(Jpn)**

[Effect of histamine H2-receptor antagonists on the phosphorus-binding ability of phosphate binders in hemodialysis patients] Takahashi N, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec;38(12):610–7 (Eng. Abstr.) **(Jpn)**

[Eradication of Helicobacter pylori in patients with end-stage renal disease undergoing dialysis treatment] Tokushima H, et al. **Nippon Jinzo Gakkai Shi** 1996 Aug;38(8):349–55 (Eng. Abstr.) **(Jpn)**

[Successful emergency coronary artery bypass grafting in a patient with systemic lupus erythematosus under hemodialysis therapy] Moriyama Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):195–7 (Eng. Abstr.) **(Jpn)**

[Cardiac surgery in patients on chronic hemodialysis] Shibuya M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Sep;44(9):1698–703 (Eng. Abstr.) **(Jpn)**

[Hemodialysis case of kidney failure due to ruptured renal angiomyolipoma associated with tuberous sclerosis] Inoue K, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10; 85(1):121–2 **(Jpn)**

[Hemodialysis] Maeda K. **Nippon Naika Gakkai Zasshi** 1997 Mar 10;86(3):506–9 (3 ref.) **(Jpn)**

[Case of p-ANCA-positive rapidly progressing glomerulonephritis requiring hemodialysis: effectiveness of anti-MPO antibody determiantion in predicting pulmonary hemorrhage] Matsuda T, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):675–7 **(Jpn)**

[Case of bilateral renal artery stenosis with successful weaning from hemodialysis following percutaneous transluminal angioplasty] Nakae H, et al. **Nippon Naika Gakkai Zasshi** 1997 May 10;86(5):846–8 **(Jpn)**

[Consecutive serum concentrations of cisplatinum in a patient with endometrial carcinoma during hemodialysis] Satoh T, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Apr; 48(4):303–6 **(Jpn)**

[The effect of human recombinant erythropoietin on distribution of membrane phospholipids in blood platelets of patients with uremia treated with repeated hemodialysis] Krawczyk W, et al. **Pol Arch Med Wewn** 1997 Feb; 97(2):120–5 (Eng. Abstr.) **(Pol)**

[Influence of hemodialysis on changes in cerebral artery blood flow velocity in patients with chronic renal failure] Kwieciński J, et al. **Pol Arch Med Wewn** 1996 Jul;96(1):8–14 (Eng. Abstr.) **(Pol)**

[The effect of repeated use of cuprophane and polysulfone dialyzers during hemodialysis on the count of natural killer cells in blood] Liszka M, et al. **Pol Arch Med Wewn** 1997 Mar;97(3):224–31 (Eng. Abstr.) **(Pol)**

[Long-term treatment with large doses of alphacalicidol in secondary hyperparathyroidism of patients dialyzed for end stage renal failure] Matuszkiewicz-Rowińska J, et al. **Pol Arch Med Wewn** 1996 Jul;96(1):15–22 (Eng. Abstr.) **(Pol)**

[Effect of low-dose recombinant humane erythropoietin therapy on the quality of life in patients with anemia in the course of end-stage renal failure treated with dialysis] Matuszkiewicz-Rowińska J, et al. **Pol Arch Med Wewn** 1996 Aug;96(2):143–52 (Eng. Abstr.) **(Pol)**

[The effect of recombinant human erythropoietin (rHu-EPO) on the autonomic nervous system in patients hemodialyzed for chronic kidney failure] Pacyk G, et al. **Pol Arch Med Wewn** 1997 Jan;97(1):22–9 (Eng. Abstr.) **(Pol)**

[The effect of hemodialysis with frequent use of cuprophan and polysulfone membranes on activation of complement in patients with chronic renal failure] Zukowska-Szczechowska E, et al. **Pol Arch Med Wewn** 1996 Nov;96(5):458–68 (Eng. Abstr.) **(Pol)**

[Effect of deferoxamine on erythropoiesis in patients hemodialyzed for chronic renal insufficiency treated with erythropoietin] Kalinowski M, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):232–4 (Eng. Abstr.) **(Pol)**

[The influence of recombinant human erythropoietin on platelet phospholipid fatty acid composition in patients on long term hemodialysis] Krawczyk W, et al. **Pol Merkuriusz Lek** 1996 Dec;1(6):394–7 (Eng. Abstr.) **(Pol)**

[Clinical and metabolic effects of erythropoietin administration in hemodialyzed children] Dyras P, et al. **Przegl Lek** 1996;53(11):793–6 (Eng. Abstr.) **(Pol)**

[The influence of multiple dialyzer reuse on selected coagulation parameters] Juźwiuk J, et al. **Przegl Lek** 1997; 54(1):6–9 (Eng. Abstr.) **(Pol)**

[Experimental in vitro model of an artificial kidney--measurement of trace element levels using the ICP method. Preliminary studies] Koniński P, et al. **Przegl Lek** 1996;53(11):797–800 (Eng. Abstr.) **(Pol)**

[Influence of long-term human recombinant erythropoietin treatment on secretion of pancreatic polypeptide and gastrin in hemodialysed patients with chronic renal failure] Nieszporek T, et al. **Przegl Lek** 1995;52(12):590–3 (Eng. Abstr.) **(Pol)**

[Levels of dimethyl-L-arginine in ultrafiltrate and blood pressure in patients during hemodialysis] Popławski A, et al. **Przegl Lek** 1995;52(9):431–5 (Eng. Abstr.) **(Pol)**

[Altered circadian rhythm of platelet aggregation in patients on longterm hemodialysis] Rydzewski A, et al. **Przegl Lek** 1997;54(3):167–70 (Eng. Abstr.) **(Pol)**

[The influence of multiple use of cuprophan dialysers on hemodynamic changes in children with chronic kidney failure] Szczepańska M, et al. **Przegl Lek** 1995;52(11):552–7 (Eng. Abstr.) **(Pol)**

[Survival of the hepatitis C virus in a dialysis population in Goiânia, Goiás] Naghettini AV, et al. **Rev Soc Bras Med Trop** 1997 Mar-Apr;30(2):113–7 (Eng. Abstr.) **(Por)**

[Changes in the ocular tension of dialysis patients] Moţa E, et al. **Oftalmologia** 1997;41(1):15–8 (Eng. Abstr.) **(Rum)**

[Extrarenal purification of blood in patients with multiple organ failure: results and prognostic criteria] Nikiforov IuV, et al. **Anesteziol Reanimatol** 1997 May-Jun;(3):42–5 (Eng. Abstr.) **(Rus)**

[Infectious complications in patients in the terminal stages of chronic renal insufficiency] Kolendo SE, et al. **Antibiot Khimioter** 1996;41(7–8):34–9 (Eng. Abstr.) **(Rus)**

[Changes in the activity of the blood antioxidant enzymes during hemodialysis of patients with terminal kidney failure] Bogdan GM, et al. **Ter Arkh** 1995;67(12):37–9 (Eng. Abstr.) **(Rus)**

[The basic principles of blood purification during hemodialysis] Denisov AIu. **Ter Arkh** 1996;68(6):69–74 **(Rus)**

[The effect of Recormon therapy on the quality of life of patients on hemodialysis treatment] Riabov SI, et al. **Ter Arkh** 1996;68(8):43–6 (Eng. Abstr.) **(Rus)**

[Hemodialysis in the treatment of acute kidney failure in hemorrhagic fever with renal syndrome] Shumov AM, et al. **Ter Arkh** 1996;68(6):31–2 (Eng. Abstr.) **(Rus)**

[The course and outcome of acute kidney failure in patients treated by hemodialysis] Shutov AM, et al. **Ter Arkh** 1997; 69(6):51–3 (Eng. Abstr.) **(Rus)**

[The use of xidifon for the correction of phosphorus-calcium metabolism in patients in the terminal stage of chronic kidney failure who are on programmed hemodialysis] Konstantinova OV, et al. **Urol Nefrol (Mosk)** 1997 May-Jun;(3):23–5 (Eng. Abstr.) **(Rus)**

[The mathematical modelling of water-osmotic equilibrium during the performance of hemodialysis] Orlova EV, et al. **Urol Nefrol (Mosk)** 1996 Jul-Aug;(4):17–9 (Eng. Abstr.) **(Rus)**

[Cardiovascular system function in patients with chronic kidney failure on hemodialysis] Rzhevskaia ON, et al. **Urol Nefrol (Mosk)** 1997 Mar-Apr;(2):45–51 (159 ref.) **(Rus)**

[Aortic valve prosthesis and the plication of a dissecting aneurysm of the ascending aorta in a patient with infectious endocarditis against a background of chronic kidney failure and its management by regular hemodialysis] Uglov FG, et al. **Vestn Khir Im I I Grek** 1996;155(2):9–14 (28 ref.) (Eng. Abstr.) **(Rus)**

[Urinary system tumors in patients with endemic nephropathy on chronic hemodialysis] Bukvić D, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:181–3 (Eng. Abstr.) **(Scc)**

[Radiographic changes in the sella turcica in female patients on chronic hemodialysis] Dimitrijević Z, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:119–20 (Eng. Abstr.) **(Scc)**

[Changes in intraocular pressure during dialysis] Dujić M, et al. **Srp Arh Celok Lek** 1997 Sep-Oct;125(9–10):257–60 (Eng. Abstr.) **(Scc)**

[The effect of parathormone on arterial blood pressure in patients on hemodialysis] Kostić S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:115–6 (Eng. Abstr.) **(Scc)**

[The effect of hemodialysis on endothelin-1 plasma levels in children with terminal renal insufficiency] Peco-Antić

A, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:92–4 (Eng. Abstr.) **(Scc)**

[Continuous blood pressure monitoring over a 24-hour period in children with terminal renal failure treated with hemodialysis] Pejčić I, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:94–6 (Eng. Abstr.) **(Scc)**

[Echocardiographic evaluation of left ventricular size and function in children with arterial hypertension on hemodialysis] Pejčić Lj, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:96–8 (Eng. Abstr.) **(Scc)**

[Hepatitis C virus infection in patients on chronic hemodialysis] Plješa S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:120–3 (Eng. Abstr.) **(Scc)**

[Incidence and clinical manifestations of hepatitis C virus infection in patients on hemodialysis] Radović M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:123–5 (Eng. Abstr.) **(Scc)**

[The effect of hemodialysis and continuous ambulatory peritoneal dialysis on renal anemia] Stojimirović B, et al. **Srp Arh Celok Lek** 1997 May–Jun;125(5–6):163–7 (Eng. Abstr.) **(Scc)**

[Analysis of data on hemodialyzed patients for the development of a data base] Stošović M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:140–1 (Eng. Abstr.) **(Scc)**

[Monitoring the nutritional status in patients on hemodialysis] Stošović M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:128–9 (Eng. Abstr.) **(Scc)**

[Use of leukocyte-depleted blood in patients treated with hemodialysis] Vavić N, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:133–5 (Eng. Abstr.) **(Scc)**

[The effect of alphacalcidol on calcium and phosphate metabolism in patients treated with hemodialysis] Veljković S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:117–8 (Eng. Abstr.) **(Scc)**

[Arterial hypertension in patients on chronic hemodialysis] Zogović J, et al. **Srp Arh Celok Lek** 1996 Sep–Oct; 124(9–10):246–50 (Eng. Abstr.) **(Scc)**

[The effect of cellulose diacetate dialysis membranes on lipids and lipoproteins in uremic patients] Jakić M, et al. **Lijec Vjesn** 1997 Feb;119(2):56–9 (Eng. Abstr.) **(Scr)**

[Serum phospholipids in patients in a chronic hemodialysis program] Ristić V, et al. **Med Pregl** 1996;49(7–8):269–71 (Eng. Abstr.) **(Scr)**

[Lipid status in patients on a chronic hemodialysis program] Tepšić V, et al. **Med Pregl** 1997 Jan–Feb;50(1–2):45–7 (Eng. Abstr.) **(Scr)**

[Pharmacotherapy of silent myocardial ischemia in patients on hemodialysis] Gonsorčík J, et al. **Vnitr Lek** 1996 Dec; 42(12):837–41 (Eng. Abstr.) **(Slo)**

[Usefulness of calcium acetate as a chelating of phosphorus in patients in hemodialysis with secondary hyperthyroidism] Torregrosa Prats JV, et al. **An Med Interna** 1995 Aug;12(8):377–81 (Eng. Abstr.) **(Spa)**

[Rate of protein catabolism as an indicator of protein ingestion in uremic patients on hemodialysis] Sanz París A, et al. **Nutr Hosp** 1996 Nov–Dec;11(6):328–33 (Eng. Abstr.) **(Spa)**

[Intraoperative anesthetic management of kidney failure in adult liver transplantation. Conventional hemodialysis] Sevillano A, et al. **Rev Esp Anestesiol Reanim** 1997 Feb; 44(2):62–9 (Eng. Abstr.) **(Spa)**

[Cardiovascular risk factors in 15 patients in chronic hemodialysis in Temuco city. Descriptive comparison with the general Chilean population] Montecinos P, et al. **Rev Med Chil** 1996 Sep;124(9):1087–92 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Ascites in a patient undergoing maintenance hemodialysis. Kes P, et al. **Acta Med Croatica** 1997;51(1):57–61

Cardiovascular complications in end-stage renal disease and hemodialysis patients. Kes P, et al. **Acta Med Croatica** 1996; 50(4–5):199–208 (95 ref.)

Frequency of mitral annular calcification in patients on hemodialysis estimated by 2-dimensional echocardiography. Raos V, et al. **Acta Med Croatica** 1996; 50(4–5):179–83

Histopathology and clinical results of carpal tunnel syndrome in idiopathic cases and hemodialysis patients. Kinugasa K, et al. **Acta Med Okayama** 1997 Apr;51(2):63–70

Impaired leucocyte rolling, adhesion and transendothelial migration following cuprophane haemodialysis. Thorlacius H, et al. **Acta Physiol Scand** 1997 Apr;159(4):277–83

Hemodialysis-related arthropathy. A prospective MR study with SE and GRE sequences. Karakida O, et al. **Acta Radiol** 1997 Jan;38(1):158–64

Sonographic findings in patients with dialysis-related amyloidosis [letter; comment] Malghem J, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):844–5. Comment on: AJR Am J Roentgenol 1996 Jan;166(1):153–6.

McCollum Award Lecture, 1996: protein-energy malnutrition in maintenance dialysis patients. Kopple JD. **Am J Clin Nutr** 1997 May;65(5):1544–57 (134 ref.)

Elimination of an outbreak of gram-negative bacteremia in a hemodialysis unit. Humar A, et al. **Am J Infect Control** 1996 Oct;24(5):359–63

Angiotensin-converting enzyme inhibitor therapy in chronic hemodialysis patients: any evidence of erythropoietin resistance? Cruz DN, et al. **Am J Kidney Dis** 1996 Oct; 28(4):535–40

Spontaneous tendon ruptures in patients on chronic dialysis [letter; comment] Donck J, et al. **Am J Kidney Dis** 1997 Jun;29(6):982. Comment on: Am J Kidney Dis 1996 Dec;28(6):861–6.

Bone disease in long-term dialysis. Golder R, et al. **Am J Kidney Dis** 1996 Dec;28(6):918–23

Autonomic neuropathy predisposing to arrhythmias in hemodialysis patients. Jassal SV, et al. **Am J Kidney Dis** 1997 Aug;30(2):219–23

Spontaneous tendon ruptures in patients on chronic dialysis [see comments] Jones N, et al. **Am J Kidney Dis** 1996 Dec; 28(6):861–6 (29 ref.). Comment in: Am J Kidney Dis 1997 Jun;29(6):982.

Elderly patients in chronic hemodialysis: risk factors for left ventricular hypertrophy. Neves PL, et al. **Am J Kidney Dis** 1997 Aug;30(2):224–8

Iron utilization after iron dextran administration for iron deficiency in patients with dialysis-associated anemia: a prospective analysis and comparison of two agents. Roe DJ, et al. **Am J Kidney Dis** 1996 Dec;28(6):855–60

Randomized cross-over study of adverse reactions and cost implications of intravenous push compared with infusion of iron dextran in hemodialysis patients. St. Peter WL, et al. **Am J Kidney Dis** 1996 Oct;28(4):523–8

Hyperparathyroidism in the hemodialysis population: a survey of 612 patients. Salem MM. **Am J Kidney Dis** 1997 Jun;29(6):862–5

Prevalence and risk factors for osteopenia in dialysis patients. Stein MS, et al. **Am J Kidney Dis** 1996 Oct;28(4):515–22

Porphyria cutanea tarda in a dialyzed patient with hepatitis C virus infection: dramatic efficacy of small repeated phlebotomies. Poux JM, et al. **Am J Med** 1997 Aug; 103(2):163–4

Hypotension during hemodialysis: role for nitric oxide. Kang ES, et al. **Am J Med Sci** 1997 Mar;313(3):138–46

Severe gastrointestinal complications of dialysis-related amyloidosis in two patients on long-term hemodialysis. Araki H, et al. **Am J Nephrol** 1996;16(2):149–53

Severe hypersensitivity reaction during hemodialysis. Kraske GK, et al. **Ann Allergy Asthma Immunol** 1997 Feb; 78(2):217–20

Comparison of surgical bypass and percutaneous balloon dilatation with primary stent placement in the treatment of central venous obstruction in the dialysis patient: one-year follow-up. Bhatia DS, et al. **Ann Vasc Surg** 1996 Sep;10(5):452–5

Severe destructive beta 2-microglobulin arthropathy after 28 years of hemodialysis. Appel H, et al. **Arthritis Rheum** 1997 Apr;40(4):709

Clinical images: aluminum-modified renal osteopathy. Buttgereit F, et al. **Arthritis Rheum** 1997 Sep;40(9):1724

Alterations in echinocyte transformation and erythrocyte sedimentation rate during hemodialysis. Agroyannis B, et al. **Artif Organs** 1997 Apr;21(4):327–30

Long-term clinical evaluation of an adsorbent column (BM-01) of direct hemoperfusion type for beta 2-microglobulin on the treatment of dialysis-related amyloidosis. Gejyo F, et al. **Artif Organs** 1995 Dec; 19(12):1222–6

Bacterial challenge of NISSHO ultrafilter ETF 609: results of in vitro testing. Krautzig S, et al. **Artif Organs** 1996 Jul;20(7):798–800

Histopathological impacts of hepatitis virus infection in hemodialysis patients: should liver biopsy be performed before renal transplantation? Ozdoğan M, et al. **Artif Organs** 1997 May;21(5):355–8

The role of erythrocytes in the deperoxidative processes in people on hemodialysis. Biasioli S, et al. **ASAIO J** 1996 Sep–Oct;42(5):M890–4

Red cell injury assessed in a numeric model of a peripheral dialysis needle. De Wachter DS, et al. **ASAIO J** 1996 Sep–Oct;42(5):M524–9

Nutritional status as a predictor of morbidity and mortality in maintenance dialysis patients. Kopple JD. **ASAIO J** 1997 May–Jun;43(3):246–50 (48 ref.)

Increased nitric oxide production in hypotensive hemodialysis patients. Lin SH, et al. **ASAIO J** 1996 Sep–Oct;42(5):M895–9

Hemodialysis related interleukin-2 receptor release by peripheral blood mononuclear cells. Memoli B, et al. **ASAIO J** 1996 Jan–Feb;42(1):60–3

National surveillance of dialysis associated diseases in the United States--1994. Tokars JI, et al. **ASAIO J** 1997 Jan–Feb;43(1):108–19

National surveillance of dialysis associated diseases in the United States, 1993. Tokars JI, et al. **ASAIO J** 1996 May–Jun;42(3):219–29

Peripheral venous blood is not the appropriate specimen to determine the amount of recirculation during hemodialysis. Van Stone JC. **ASAIO J** 1996 Jan–Feb;42(1):41–5

Nutritional monitoring techniques in dialysis. Can routine monitoring impact outcome? Zabetakis PM. **ASAIO J** 1997 May–Jun;43(3):243–5 (20 ref.)

Fluoxetine: a treatment option for severe symptomatic postural hypotension in a diabetic haemodialysis patient [letter] Chin CK, et al. **Aust N Z J Med** 1996 Oct;26(5):714

High frequency of marked hyperphosphatemia during intravenous calcitriol therapy in hemodialysis patients with refractory hyperparathyroidism. Descombes E, et al. **Blood Purif** 1996;14(3):234–41

Mechanisms of loss of lean body mass in patients on chronic dialysis. Dinarello CA, et al. **Blood Purif** 1996;14(5):388–94 (27 ref.)

Influence of the hydration state on blood pressure values in a group of patients on regular maintenance hemodialysis. Dionisio P, et al. **Blood Purif** 1997;15(1):25–33

Beneficial effect of cold dialysate for the prevention of hemodialysis-induced hypoxia. Hegbrant J, et al. **Blood Purif** 1997;15(1):15–24

Hemodynamic instability during different forms of dialysis therapy: do we really know why? [editorial] Henderson LW. **Blood Purif** 1996;14(6):395–404 (37 ref.)

Hemodynamic stability during different forms of dialysis therapy: a pathogenetic analysis. Hendrikus W, et al. **Blood Purif** 1996;14(6):405–20 (118 ref.)

Acquired perforating dermatosis in a British dialysis population. Morton CA, et al. **Br J Dermatol** 1996 Nov; 135(5):671–7

Cold stress provokes sympathoinhibitory presyncope in healthy subjects and hemodialysis patients with low cardiac output. Ligtenberg G, et al. **Circulation** 1997 May 6; 95(9):2271–6

Erosive azotemic osteoarthropathy of the hands in chronic ambulatory peritoneal dialysis and hemodialysis. Gonzalez T, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):367–71

Midodrine treatment for patients with hemodialysis hypotension. Flynn JJ 3rd, et al. **Clin Nephrol** 1996 Apr; 45(4):261–7

Effect of recombinant human erythropoietin on interleukin-1 beta and interleukin-6 in patients on maintenance hemodialysis [letter] Sayinalp N, et al. **Clin Nephrol** 1995 Dec;44(6):404

The effects of hemodialysis on duodenal and gastric mucosal changes in uremic patients. Var C, et al. **Clin Nephrol** 1996 May;45(5):310–4

Correlation of drug-related aluminum intake and dialysis treatment with deposition of argyrophilic aluminum-containing inclusions in CNS and in organ systems of patients with dialysis-associated encephalopathy. Reusche E, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):342–7

Body fluid dynamics during dialysis and in dialysis hypotension. Koomans HA. **Contrib Nephrol** 1996; 119:173–81 (16 ref.)

A pathophysiological overview of dialysis hypotension. Maggiore Q, et al. **Contrib Nephrol** 1996;119:182–8 (18 ref.)

Neurohumoral response to volume depletion and central hypovolemia in dialysis patients. Mallamaci F, et al. **Contrib Nephrol** 1996;119:189–96 (14 ref.)

Tear hyperosmolarity in renal dialysis patients asymptomatic for dry eye. Charlton JF, et al. **Cornea** 1996 Jul;15(4):335–9

Hemodialysis vascular access: emerging concepts. Himmelfarb J, et al. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):485–91 (43 ref.)

Relationship between insulin and hemodialysis-associated hypotension. Kahn AM, et al. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):1–5 (47 ref.)

Nitric oxide mediates the cardiovascular instability of haemodialysis patients. Yokokawa K, et al. **Curr Opin Nephrol Hypertens** 1996 Jul;5(4):359–63 (67 ref.)

Plasma free thyroxine (FT4) concentrations during hemodialysis in patients with chronic renal failure: effects of plasma non-esterified fatty acids on FT4 measurement. Nishikawa M, et al. **Endocr J** 1996 Oct;43(5):487–93

Pharmacokinetics of an antifibrotic agent, pirfenidone, in haemodialysis patients [letter] Taniyama M, et al. **Eur J Clin Pharmacol** 1997;52(1):77–8

Sonographic findings in haemodialysis-related chronic arthropathy. Coari G, et al. **Eur Radiol** 1996;6(6):890–4

Competition of iron and aluminum for transferrin: the molecular basis for aluminum deposition in iron-overloaded dialysis patients? Van Landeghem GF, et al. **Exp Nephrol** 1997 May–Jun;5(3):239–45

Medical and dialytic management of hyperkalemia in hemodialysis patients [editorial] Allon M. **Int J Artif Organs** 1996 Dec;19(12):697–9 (17 ref.)

Effectiveness of universal precautions in limiting nosocomial transmission of hepatitis C virus in haemodialysis units [letter] Aucella F, et al. **Int J Artif Organs** 1996 Jul; 19(7):435–6

HGV/HGBV-C, a new virus in the dialysis setting [editorial] Beccari M. **Int J Artif Organs** 1997 Jan;20(1):12–3 (10 ref.)

Arteriosclerosis in dialysis patients. Bommer J, et al. **Int J Artif Organs** 1996 Nov;19(11):638–44

Hemodialysis associated hypoxia extends into the post-dialysis period. Dhakal MP, et al. **Int J Artif Organs** 1997 Apr;20(4):204–7

Do potassium deficient diets and K+ removal by dialysis contribute to the cardiovascular morbidity and mortality of patients with end stage renal disease? [editorial] Dolson GM. **Int J Artif Organs** 1997 Mar;20(3):134–5 (15 ref.)

Rise in blood pressure during hemodialysis-ultrafiltration: a "paradoxical" phenomenon? [editorial] Dorhout Mees EJ. **Int J Artif Organs** 1996 Oct;19(10):569–70 (14 ref.)

A cross-over study of a new low molecular weight heparin (Logiparin) in hemodialysis. Koutsikos D, et al. **Int J Artif Organs** 1996 Aug;19(8):467–71

Monitoring sodium removal and delivered dialysis by conductivity. Locatelli F, et al. **Int J Artif Organs** 1995 Nov;18(11):716–21

Acquired renal cystic disease and tumor markers in chronic hemodialysis patients. Polenakovic M, et al. **Int J Artif Organs** 1997 Feb;20(2):96–100

Elevated plasma lipoprotein(a) levels and hypoalbuminemia

in peritoneal dialysis patients. Ross EA, et al. **Int J Artif Organs** 1995 Dec;18(12):751–6

Clinical significance of intradialytic blood volume monitoring [editorial] Santoro A, et al. **Int J Artif Organs** 1997 Jan; 20(1):1–6 (25 ref.)

Altered 5-aminolevulinic acid metabolism leading to pseudoporphyria in hemodialysed patients. Guolo M, et al. **Int J Biochem Cell Biol** 1996 Mar;28(3):311–7

Parametric analysis of heart rate variability during hemodialysis. Cavalcanti S, et al. **Int J Biomed Comput** 1996 Aug;42(3):215–24

Coagulation inhibitors and fibrinolytic parameters in patients on peritoneal dialysis and haemodialysis. Alwakeel J, et al. **Int Urol Nephrol** 1996;28(2):255–61

The effect of calcitriol on renal anaemia in patients undergoing long-term dialysis. Nazem AK, et al. **Int Urol Nephrol** 1997;29(1):119–27

Comparative study of cystic variations of the kidneys in haemodialysis and continuous ambulatory peritoneal dialysis patients. Sasaki H, et al. **Int Urol Nephrol** 1996; 28(2):247–54

What is the role of lipoprotein abnormalities and platelet aggregation defects in cardiovascular disease in chronic dialysis patients? Winkler J, et al. **Int Urol Nephrol** 1997; 29(1):91–4

Intermittent hemodialysis in critically ill patients with multiple organ dysfunction syndrome is associated with intestinal intramucosal acidosis. Van der Schueren G, et al. **Intensive Care Med** 1996 Aug;22(8):747–51

Upper extremity musculoskeletal manifestations of dialysis-associated amyloidosis. Fitzpatrick DC, et al. **Iowa Orthop J** 1996;16:135–8 (28 ref.)

Uremic pruritus: roles of parathyroid hormone and substance P. Cho YL, et al. **J Am Acad Dermatol** 1997 Apr; 36(4):538–43

Low-calcium dialysate worsens secondary hyperparathyroidism [letter; comment] Argilés A, et al. **J Am Soc Nephrol** 1996 Apr;7(4):635–6. Comment on: J Am Soc Nephrol 1995 Jul;6(1):132–5.

Thrombolysis versus surgery for the treatment of thrombosed dialysis access grafts. Beathard GA. **J Am Soc Nephrol** 1995 Dec;6(6):1619–24

Reassessing the cardiac risk profile in chronic hemodialysis patients: a hypothesis on the role of oxidant stress and other non-traditional cardiac risk factors. Becker BN, et al. **J Am Soc Nephrol** 1997 Mar;8(3):475–86 (136 ref.)

Cell aggregation and apoptosis induced by hemodialysis membranes. Carracedo J, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1586–91

Performance characteristics of a dialysis-related amyloidosis questionnaire. Chertow GM, et al. **J Am Soc Nephrol** 1996 Aug;7(8):1235–40

Predialysis systolic blood pressure correlates strongly with mean 24-hour systolic blood pressure and left ventricular mass in stable hemodialysis patients. Conion PJ, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2658–63

Impaired delivery of hemodialysis prescriptions: an analysis of causes and an approach to evaluation. Coyne DW, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1315–8

Long-term effects of erythropoietin therapy on fistula stenosis and plasma concentrations of PDGF and MCP-1 in hemodialysis patients. De Marchi S, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1147–56

Beta 2-microglobulin amyloidosis in chronic dialysis patients: a case report and review of the literature. Farrell J, et al. **J Am Soc Nephrol** 1997 Mar;8(3):509–14 (26 ref.)

The evaluation of iron status in hemodialysis patients. Fishbane S, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2654–7

Increased energy expenditure in hemodialysis patients. Ikizler TA, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2646–53

A clustering of epidural abscesses in chronic hemodialysis patients: risks of salvaging access catheters in cases of infection. Kovalik EC, et al. **J Am Soc Nephrol** 1996 Oct; 7(10):2264–7

Risk of fatal cerebrovascular accident in patients on peritoneal dialysis versus hemodialysis. Mattana J, et al. **J Am Soc Nephrol** 1997 Aug;8(8):1342–7

Renal transplantation relieves the symptoms but does not reverse beta 2-microglobulin amyloidosis. Mourad G, et al. **J Am Soc Nephrol** 1996 May;7(5):798–804

Cerebral edema after rapid dialysis is not caused by an increase in brain organic osmolytes. Silver SM. **J Am Soc Nephrol** 1995 Dec;6(6):1600–6

Acidosis and coma after hemodialysis. Taylor R, et al. **J Am Soc Nephrol** 1997 May;8(5):853–6

Antibiotic-resistant endocarditis in a hemodialysis patient. Vijayvargiya R, et al. **J Am Soc Nephrol** 1996 Apr; 7(4):536–42

Streptokinase therapy in treatment of thrombosis of arteriovenous fistula [letter] Taparia BN, et al. **J Assoc Physicians India** 1995 Jun;43(6):445

Dilator-associated complications of central vein catheter insertion: possible mechanisms of injury and suggestions for prevention [see comments] Oropello JM, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):634–7. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):539–40; discussion 541. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):540; discussion 541. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):540–1. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):541.

High incidence of hepatitis C virus infection in hemodialysis patients in units with high prevalence. Pujol FH, et al. **J Clin Microbiol** 1996 Jul;34(7):1633–6

Differential prevalence of hepatitis C virus subtypes in healthy blood donors, patients on maintenance hemodialysis, and patients with hepatocellular carcinoma in Surabaya, Indonesia. Soetjipto, et al. **J Clin Microbiol** 1996 Dec;34(12):2875–80

Magnetic resonance imaging in patients with hemodialysis-related arthropathy. Peng SF, et al. **J Formos Med Assoc** 1997 Jun;96(6):435–40

Staphylococcus aureus carriage and infections among patients in four haemo- and peritoneal-dialysis centres in Denmark. The Danish Study Group of Peritonitis in Dialysis (DASPID). Zimakoff J, et al. **J Hosp Infect** 1996 Aug; 33(4):289–300

Epidemiologic study of contact dermatitis in hemodialysis patients. Gonzalo MA, et al. **J Investig Allergol Clin Immunol** 1997 Jan–Feb;7(1):20–3

Nosocomial transmission of hepatitis C virus in haemodialysis patients. de Lamballerie X, et al. **J Med Virol** 1996 Aug; 49(4):296–302

Infection with GB virus C/hepatitis G virus in Brazilian hemodialysis and hepatitis patients and asymptomatic individuals. Lampe E, et al. **J Med Virol** 1997 May; 52(1):61–7

Infection with GB virus C and hepatitis C virus in hemodialysis patients and blood donors in Beijing. Wang Y, et al. **J Med Virol** 1997 May;52(1):26–30

Recombinant tissue plasminogen activator to declot dialysis fistulas. Boobes Y, et al. **J Nephrol** 1997 Mar–Apr; 10(2):107–10

Dialysis membrane biocompatibility and mortality and morbidity in acute renal failure [editorial] Himmelfarb J, et al. **J Nephrol** 1997 Mar–Apr;10(2):63–4

Erythropoietin treatment in renal anemia. How high should the target hematocrit be? [editorial] Minetti L. **J Nephrol** 1997 May–Jun;10(3):117–9

Long-term effect of low molecular weight heparin on serum lipids in hypertriglyceridemic chronic hemodialysis patients. Vlassopoulos D, et al. **J Nephrol** 1997 Mar–Apr; 10(2):111–4

Dialysis arthropathy: identification and evaluation of a subset of patients with unexplained inflammatory effusions. Ferrari AJ, et al. **J Rheumatol** 1997 Sep;24(9):1780–6

Incidence and management of arterial emboli from hemodialysis graft surgical thrombectomy. Trerotola SO, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):557–62

Distal revascularization-interval ligation for limb salvage and maintenance of dialysis access in ischemic steal syndrome. Berman SS, et al. **J Vasc Surg** 1997 Sep;26(3):393–402; discussion 402–4

Prospective randomized comparison of surgical versus endovascular management of thrombosed dialysis access grafts. Marston WA, et al. **J Vasc Surg** 1997 Sep; 26(3):373–80; discussion 380–1

The effect of granulocyte-macrophage colony-stimulating factor (GM-CSF) on hepatitis B vaccination in haemodialysis patients. Hess G, et al. **J Viral Hepat** 1996 May;3(3):149–53

Frequency of metabolic bone disease in haemodialysis patients. Hussain R, et al. **JPMA J Pak Med Assoc** 1996 Apr;46(4):83–6

Treatment of PermCath-related sepsis in uremic patients. Chang JM, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Mar; 13(3):155–61

Undiagnosed hepatitis C virus infection in hemodialysis patients: value of HCV RNA and liver enzyme levels. Caramelo C, et al. **Kidney Int** 1996 Dec;50(6):2027–31

Influence of dialysis on plasma lipid peroxidation products and antioxidant levels. Daschner M, et al. **Kidney Int** 1996 Oct;50(4):1268–72

Increased reticulated platelets in dialysis patients. Himmelfarb J, et al. **Kidney Int** 1997 Mar;51(3):834–9

Interaction between beta 2-microglobulin and advanced glycation end products in the development of dialysis related-amyloidosis. Hou FF, et al. **Kidney Int** 1997 May; 51(5):1514–9

Predictors of stroke in patients receiving chronic hemodialysis. Iseki K, et al. **Kidney Int** 1996 Nov; 50(5):1672–5

Low diastolic blood pressure, hypoalbuminemia, and risk of death in a cohort of chronic hemodialysis patients. Iseki K, et al. **Kidney Int** 1997 Apr;51(4):1212–7

Bone health of adult hemodialysis patients is related to vitamin K status. Kohlmeier M, et al. **Kidney Int** 1997 Apr; 51(4):1218–21

A randomized controlled study of iron supplementation in patients treated with erythropoietin. Macdougall IC, et al. **Kidney Int** 1996 Nov;50(5):1694–9

Dialysis-related amyloidosis of the tongue in long-term hemodialysis patients. Matsuo K, et al. **Kidney Int** 1997 Sep;52(3):832–8

Amyloid beta 2-microglobulin is modified with imidazolone, a novel advanced glycation end product, in dialysis-related amyloidosis. Niwa T, et al. **Kidney Int** 1997 Jan; 51(1):187–94

The set point of calcium and the reduction of parathyroid hormone in hemodialysis patients. Pahl M, et al. **Kidney Int** 1996 Jan;49(1):226–31

Hepatitis C virus infection in dialysis and renal transplantation. Pereira BJ, et al. **Kidney Int** 1997 Apr; 51(4):981–99 (273 ref.)

Long term effect of renal transplantation on dialysis-related amyloid deposits and symptomatology. Tan SY, et al. **Kidney Int** 1996 Jul;50(1):282–9

A case of carpal tunnel syndrome due to dialysis-related amyloidosis in a patient undergoing long-term hemodialysis. Chung YJ, et al. **Korean J Intern Med** 1997 Jan;12(1):75–9

High-dose alfacalcidol improves anaemia in patients on haemodialysis. Albitar S, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):514–8

HGV infection in dialysis patients [letter] Beccari M, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2370–1

Segmental necrosis of the ascending colon in haemodialysis patients [letter; comment] Berger A, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1893. Comment on: Nephrol Dial Transplant 1995 Dec;10(12):2281–5.

Haemodialysis access without thrombosis: is it possible? [editorial] Blankestijn PJ, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2394–7

Genotype distribution and transmission of hepatitis C virus (HCV) in French haemodialysed patients. Bouchardeau F, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2250–2

Dialysis amyloidosis: clinical aspects and therapeutic approach. Brancaccio D, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:102–5 (22 ref.)

Tolerance of haemodialysis: a randomized cross-over trial of 5-h versus 4-h treatment time. Brunet P, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:46–51

Dialysis-related amyloidosis: visceral involvement and protein constituents. Campistol JM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:142–5 (44 ref.)

Interferon treatment for hepatitis C virus infection in patients on haemodialysis. Chan TM, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1414–9

Segmental necrosis of ascending colon in haemodialysis patients [see comments] Charra B, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2281–5. Comment in: Nephrol Dial Transplant 1996 Sep;11(9):1893.

Clinical impact of biocompatible dialysis membranes on patient morbidity and mortality: an appraisal of the evidence. Churchill DN. **Nephrol Dial Transplant** 1995;10 Suppl 10:52–6 (22 ref.)

Arterial injuries following diagnostic, therapeutic, and accidental arterial cannulation in haemodialysis patients. Cina G, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1448–52

Hepatitis C virus genotype in anti-HCV-positive hemodialysed patients. Colleoni N, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2258–64

Hepatitis G virus infection in haemodialysed patients: epidemiology and clinical relevance. Cornu C, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1326–9

Low serum levels of alkaline phosphatase of bone origin: a good marker of adynamic bone disease in haemodialysis patients. Couttenye MM, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1065–72

beta 2-microglobulin and amyloidosis: who is at risk? Davison AM. **Nephrol Dial Transplant** 1995;10 Suppl 10:48–51 (22 ref.)

Interleukin-1 receptors and receptor antagonist in haemodialysis. Donati D, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):111–8

Impact of dialysis room and reuse strategies on the incidence of hepatitis C virus infection in haemodialysis units. dos Santos JP, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2017–22

A comparative survey on the incidence of kidney graft primary vascular thrombosis among CAPD and haemodialysis patients [letter; comment] Escuin F, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1896–7. Comment on: Nephrol Dial Transplant 1994;9(8):1166–9.

Autonomic nervous system and adrenergic receptors in chronic hypotensive haemodialysis patients. Esforzado Armengol N, et al. **Nephrol Dial Transplant** 1997 May; 12(5):939–44

Serologic survey for control of hepatitis C in haemodialysis patients: third-generation assays and analysis of costs. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):298–303

Hepatitis E virus infection in haemodialysis patients: a seroepidemiological survey. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):133–6

Physiological abnormalities of skeletal muscle in dialysis patients. Fahal IH, et al. **Nephrol Dial Transplant** 1997 Jan; 12(1):119–27

The effect of dialysis membrane on serum beta 2-microglobulin (beta 2M) in chronic haemodialysis patients [letter] Farrell J, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):856

Guidelines for dosing of intravenous calcitriol in dialysis patients with hyperparathyroidism. Fernandez E, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:96–101 (21 ref.)

Heparin-induced thrombocytopenia--background and implications for haemodialysis [editorial] Finazzi G, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2120–2 (15 ref.)

Incidence and risk factors of hepatitis C virus infection in a haemodialysis unit. Forns X, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):736–40

Hepatitis G virus infection in a haemodialysis unit: prevalence and clinical implications. Forns X, et al. **Nephrol Dial Transplant** 1997 May;12(5):956–60

Ultrasonographic intervention of parathyroid hyperplasia in chronic dialysis patients: a theoretical approach. Fukagawa M, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:125–9 (32 ref.)

Cat-scratch disease in a patient undergoing haemodialysis. Goral S, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):811–4

Lymphocyte subsets in dialyser eluates: a new parameter of bioincompatibility? Grooteman MP, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1073–8

High risk of severe endocarditis in patients on chronic dialysis [letter] Hanslik T, et al. **Nephrol Dial Transplant** 1997 Jun; 12(6):1301–2

The 'first-use syndrome' revisited: a dialysis centre's perspective. Ing TS, et al. **Nephrol Dial Transplant** 1995; 10 Suppl 10:39–44 (66 ref.)

Does dialysis-related amyloidosis regress after transplantation? [editorial] Jadoul M, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):655–7 (14 ref.)

Transmission routes of HCV infection in dialysis. Jadoul M. **Nephrol Dial Transplant** 1996;11 Suppl 4:36–8 (25 ref.)

Onset of coronary artery disease prior to initiation of haemodialysis in patients with end-stage renal disease. Joki N, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):718–23

QT interval lengthening during haemodialysis: is there a potential risk for torsade de pointes? [letter; comment] Korkmaz ME, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):365. Comment on: Nephrol Dial Transplant 1996 Jun;11(6):944–6. Comment on: Nephrol Dial Transplant 1996 Jun;11(6):1153–4.

Quadriparesis and faecal incontinence in a long-term haemodialysis patient. Korzets A, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):224–5

Orthostatic hypoxaemia in dialysed adult polycystic kidney disease patients. Korzets Z, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):733–5

New indicators to evaluate bacteriological quality of the dialysis fluid and the associated inflammatory response in ESRD patients. Krautzig S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:87–91 (29 ref.)

Effect of 22-oxacalcitriol on hyperparathyroidism of dialysis patients: results of a preliminary study. Kurokawa K, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:121–4

Prevalence of dialysis-related amyloidosis in diabetic patients. Diabetes Amyloid Study Group. Lehnert H, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2004–7

Preventing haemodynamic instability in patients at risk for intra-dialytic hypotension. Leunissen KM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:11–5 (45 ref.)

Influence of membranes on morbidity. Locatelli F. **Nephrol Dial Transplant** 1996;11 Suppl 2:116–20 (16 ref.)

Hypertension in haemodialysis patients: is it only hypervolaemia? [editorial] Luik AJ, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1557–60 (34 ref.)

Nosocomial transmission of hepatitis C virus within a British dialysis centre. McLaughlin KJ, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):304–9

Prevention of haemodynamic risks by continuous blood volume measurement and control. Mann H, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:48–51

Intradialytic renal haemodynamics--potential consequences for the management of the patient with acute renal failure [editorial] Manns M, et al. **Nephrol Dial Transplant** 1997 May;12(5):870–2 (18 ref.)

Uraemic pruritus and exposure to di(2-ethylhexyl) phthalate (DEHP) in haemodialysis patients. Mettang T, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2439–43

New aspects in the pathogenesis of dialysis-related amyloidosis: role of beta 2-microglobulin modified with advanced glycation end products in bone and joint destruction. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 2:140–3 (17 ref.)

Advanced glycation of beta 2-microglobulin in the pathogenesis of bone lesions in dialysis-associated amyloidosis. Miyata T, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 3:86–90 (37 ref.)

Indwelling silicone femoral catheters: experience of three haemodialysis centres. Montagnac R, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):772–5

Pruritus and skin hydration during dialysis. Morton CA, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2031–6

The dialysis patient with cystic bone defects and spinal cord symptoms. Mourad G, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1870–3

Vascular access thrombosis--what are the possibilities of intervention? [editorial] Mysliwiec M. **Nephrol Dial Transplant** 1997 May;12(5):876–8 (11 ref.)

Preliminary evidence for a role of apolipoprotein E alleles in identifying haemodialysis patients at high vascular risk. Olmer M, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):691–3

Helicobacter pylori infection in haemodialysis patients and renal transplant recipients. Ozgür O, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):289–91

Calciphylaxis in a haemodialysis patient: functional protein S deficiency? Perez-Mijares R, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1856–9

Pruritus in dialysis patients: a neglected problem [editorial] Ponticelli C, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2174–6

The susceptible patient. Raine AE. **Nephrol Dial Transplant** 1996;11 Suppl 2:6–10 (35 ref.)

Muscular strength and bone mineral density in haemodialysis patients. Spindler A, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):128–32

Resistance to recombinant human erythropoietin treatment in thalassaemic patients on chronic haemodialysis: a real clinical entity? [letter] Tarng DC, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1893–5

Uraemic pericarditis: a reversible inflammatory state of resistance to recombinant human erythropoietin in haemodialysis patients. Tarng DC, et al. **Nephrol Dial Transplant** 1997 May;12(5):1051–4

Acute haemodialysis membrane-associated reactions. Tielemans C, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:112–5 (32 ref.)

The role of dialysis membranes in infection. Vanholder R, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:101–3

Thrombosis of angioaccess in haemodialysed patients treated with human recombinant erythropoietin [letter] Viron B, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):368–70

Liver disease in dialysis patients with antibodies to hepatitis C virus. al-Wakeel J, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2265–8

Effects of haemodialysis on coagulation and platelets: are we measuring membrane biocompatibility? Ward RA. **Nephrol Dial Transplant** 1995;10 Suppl 10:12–17 (46 ref.)

The impact of vascular access for haemodialysis on patient morbidity and mortality [editorial; comment] Woods JD, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):657–9 (11 ref.). Comment on: Nephrol Dial Transplant 1997 Apr;12(4):852.

The heart rate response pattern to dialysis hypotension in haemodialysis patients. Zoccali C, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):519–23

High risk of retinal damage by desferrioxamine in dialysis patients [letter] Albalate M, et al. **Nephron** 1996;73(4):726–7

May colchicine therapy be of value in the prevention of dialysis amyloidosis? [letter] Arik N, et al. **Nephron** 1996; 73(2):365–6

Neutrophil reactive oxygen species production during haemodialysis: role of activated platelet adhesion to neutrophils through P-selectin. Bonomini M, et al. **Nephron** 1997;75(4):402–11

Increased incidence of tuberculosis in patients undergoing haemodialysis. Cengiz K. **Nephron** 1996;73(3):421–4

Low serum vitamin B12 levels in chronic high-flux haemodialysis patients. Chandna SM, et al. **Nephron** 1997; 75(3):259–63

Malignant tumors in hemodialysis patients. Čučković C, et al. **Nephron** 1996;73(4):710–2

The periodicity of vascular access thrombosis. Diskin CJ, et al. **Nephron** 1996;73(4):532–5

The importance of timing of surgery for hemodialysis vascular access thrombectomy. Diskin CJ, et al. **Nephron** 1997;75(2):233–7

Quenching the thirst in dialysis patients. Dominic SC, et al. **Nephron** 1996;73(4):597–600

Treatment of hemodialysis ascites with continuous ambulatory peritoneal dialysis [letter] Duranay M, et al. **Nephron** 1996;73(2):327–8

Plasma levels of terminal complement complex in the evaluation of bioincompatibility [letter] Duranay M, et al. **Nephron** 1996;73(2):331

Assessment of renal osteodystrophy in dialysis patients: use of bone alkaline phosphatase, bone mineral density and parathyroid ultrasound in comparison with bone histology. Fletcher S, et al. **Nephron** 1997;75(4):412–9

Leukopenia and rheological anomalies in leukocytes during hemodialysis in patients with chronic renal failure. Iijima S, et al. **Nephron** 1996;74(3):561–6

Active inhibitory effect of nafamostat mesylate against the elevation of plasma myeloperoxidase during hemodialysis. Inose K, et al. **Nephron** 1997;75(4):420–5

Evaluation of blood coagulation-fibrinolysis system in patients receiving chronic hemodialysis. Ishii Y, et al. **Nephron** 1996;73(3):407–12

Fifteen-year follow-up of acquired renal cystic disease - a gender difference. Ishikawa I, et al. **Nephron** 1997; 75(3):315–20

The changes of Mac-1 and L-selectin expression on granulocytes and soluble L-selectin level during hemodialysis. Kawabata K, et al. **Nephron** 1996;73(4):573–9

Progression of cerebral atrophy in hemodialysis patients: what about hypertension? [letter] Macia M, et al. **Nephron** 1996;73(2):332

Comparison of plasma erythropoietin concentrations and iron status in hemodialyzed patients not requiring and requiring rHuEpo therapy. Majdan M, et al. **Nephron** 1996; 73(3):425–9

Computed tomographic measurement of lung density changes in lung water with hemodialysis. Metry G, et al. **Nephron** 1997;75(4):394–401

Beta2-Microglobulin dialysis amyloid and its formation: role of 3-deoxyglucosone and advanced glycation end products [editorial] Niwa T. **Nephron** 1997;76(4):373–91 (238 ref.)

Use of parenteral supplements in dialysis patients [letter] Paskalev E. **Nephron** 1997;76(2):230

Acute changes of endothelin 1 in children on hemodialysis [letter] Peco-Antić A, et al. **Nephron** 1996;73(3):482–3

Free protein S deficiency in hemodialysis patients due to vascular calcifications? Perez-Mijares R, et al. **Nephron** 1996;74(2):356–60

Laser Doppler flowmeter assessment of skin microcirculation in uremic patients on hemodialysis treatment. Rossi M, et al. **Nephron** 1996;73(4):544–8

Tonic convulsion associated with sinus arrest due to hyperkalemia in a chronic hemodialysis patient [letter] Sakemi T, et al. **Nephron** 1996;73(2):370–1

Hemodialysis-induced upregulation of granulocyte adhesion molecules CD11b/CD18 is independent from 5-lipoxygenase activity. Sellmayer A, et al. **Nephron** 1997; 76(4):418–24

Improvement of anemia and secondary hyperparathyroidism with erythropoietin treatment in hemodialysis patients [letter] Seyrek N, et al. **Nephron** 1996;73(2):338–9

Vascular access infection associated with methicillin-resistant Staphylococcus aureus nasal carriage in a hemodialysis patient [letter] Takeda K, et al. **Nephron** 1997;76(3):371–2

Risk factors for HCV infection in two haemodialysis units in The Netherlands. Keur I, et al. **Neth J Med** 1997 Mar; 50(3):97–101

Bone metabolism and daily physical activity in women undergoing hemodialysis. Ota S, et al. **Nippon Jinzo Gakkai Shi** 1997 May;39(4):441–6

Pattern of cerebral blood flow and cognition in patients undergoing chronic haemodialysis treatment. Fazekas G, et al. **Nucl Med Commun** 1996 Jul;17(7):603–8

Specific problems of arterial, Swan-Ganz, and hemodialysis catheters. Rello J, et al. **Nutrition** 1997 Apr;13(4 Suppl):36S–41S (55 ref.)

Short dialyzed children respond less to growth hormone than patients prior to dialysis. German Study Group for Growth Hormone Treatment in Chronic Renal Failure. Wühl E, et al. **Pediatr Nephrol** 1996 Jun;10(3):294–8

Efficacy of low-dose desferrioxamine for the estimation of aluminium overload in haemodialysis patients. Janssen MJ, et al. **Pharm World Sci** 1996 Oct;18(5):187–91

Unusual presentations of extrapulmonary tuberculosis in three hemodialysis patients. Fang JT, et al. **Ren Fail** 1997 May; 19(3):485–90

Tumoral calcinosis in hemodialysis patients. A review of three cases. Franco M, et al. **Rev Rhum Engl Ed** 1997 Jan; 64(1):59–62 (19 ref.)

Effects of hemodialysis on bone mineral as followed by using neutron activation analysis. Foltýnová V, et al. **Sb Lek** 1996;97(3):343–50

Hemodialysis effect on serum boron level in the patients with long term hemodialysis [published erratum appears in Sci Total Environ 1997 Jan 30;193(3):279] Usuda K, et al. **Sci Total Environ** 1996 Nov 22;191(3):283–90

A 1990s perspective of hepatitis C, human immunodeficiency virus, and tuberculosis infections in dialysis patients. Murthy BV, et al. **Semin Nephrol** 1997 Jul;17(4):346–63 (185 ref.)

Hemodialysis-related amyloidosis of the sternoclavicular joint. Cameron EW, et al. **Skeletal Radiol** 1997 Jul; 26(7):428–30

Natural course of erosive arthropathy of the hand in patients undergoing hemodialysis. Cotten A, et al. **Skeletal Radiol** 1997 Jan;26(1):20–6

Magnetic resonance imaging of dialysis-related amyloidosis of the shoulder and hip. Escobedo EM, et al. **Skeletal Radiol** 1996 Jan;25(1):41–8

Parathyroid carcinoma in patients with chronic renal failure on maintenance hemodialysis. Miki H, et al. **Surgery** 1996 Nov;120(5):897–901 (10 ref.)

The presence of antibodies against a PF4-heparin complex in patients on haemodialysis [letter] Boon DM, et al. **Thromb Haemost** 1996 Sep;76(3):480

Frequency of antibodies directed against heparin-platelet factor 4 in patients exposed to heparin through chronic hemodialysis [letter] de Sancho M, et al. **Thromb Haemost** 1996 Apr;75(4):695–6

Mean platelet volume, platelet count and platelet dimensional width during hemodialysis. Ozdemir O, et al. **Thromb Res** 1997 Jun 1;86(5):405–8

The effects of hemodialysis on total intrauterine volume. Brost BC, et al. **Ultrasound Obstet Gynecol** 1996 Jul; 8(1):34–6

Incidence of pyrexia in patients undergoing haemodialysis. Egwari LO, et al. **West Afr J Med** 1996 Apr-Jun; 15(2):101–6

[The causes, diagnosis and treatment of aluminum toxicity in patients with chronic renal failure undergoing dialysis] Wang G, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan; 35(1):36–40 (Eng. Abstr.) **(Chi)**

[Changes in the conjunctiva and cornea in dialyzed patients] Stibor V, et al. **Cesk Slov Oftalmol** 1996 Oct;52(5):286–90 (Eng. Abstr.) **(Cze)**

[Diastolic dysfunction in chronic renal failure patients under hemodialysis] Douchet MP, et al. **Ann Cardiol Angeiol (Paris)** 1996 Dec;45(10):589–92 (15 ref.) (Eng. Abstr.) **(Fre)**

[A severe complication in chronic hemodialysis: intestinal pseudo-obstruction due to amyloidosis (letter)] Versini P, et al. **Ann Pathol** 1997 Jul;17(3):215–6 **(Fre)**

[Ophthalmologic manifestations of dialysis. Retrospective study on 81 patients] Hachache T, et al. **Nephrologie** 1996; 17(2):117–21 (Eng. Abstr.) **(Fre)**

[Risk factors for acute hypersensitivity reactions in hemodialysis] Simon P, et al. **Nephrologie** 1996;17(3):163–70 (Eng. Abstr.) **(Fre)**

[Coma induced by intravenous acyclovir in a hemodialyzed patient (letter)] Abad S, et al. **Presse Med** 1997 Jun 28; 26(22):1050 **(Fre)**

[Mesenteric ischemia in hemodialyzed patients] Hachache T, et al. **Presse Med** 1997 Mar 22;26(9):410–3 (Eng. Abstr.) **(Fre)**

[Complications of treatment by dialysis (editorial)] Leteif M, et al. **Presse Med** 1997 Mar 22;26(9):407–9 (Eng. Abstr.) **(Fre)**

[Management of renal osteopathy in patients with chronic dialysis] Kiss D, et al. **Schweiz Med Wochenschr** 1996 Oct 19;126(42):1792–8 (Eng. Abstr.) **(Ger)**

[Venous hypertension of the arm. A complication of vascular access in hemodialysis] Caruso U, et al. **Minerva Chir** 1996 Oct;51(10):877–9 (Eng. Abstr.) **(Ita)**

[A case of ureteral malacoplakia in a hemodialysis patient] Suzuki N, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Aug; 87(8):1056–9 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Serum and urinary pyridinium cross-links in patients with predialysis chronic renal failure] Kagebayashi Y, et al. **Nippon Jinzo Gakkai Shi** 1996 Jun;38(6):248–53 (Eng. Abstr.) **(Jpn)**

[Blood pressure and renin in long-term hemodialysis patients] Shin J, et al. **Nippon Jinzo Gakkai Shi** 1996 Jan;38(1):13–21 (Eng. Abstr.) **(Jpn)**

[Evaluation of changes in destructive spondylarthropathy (DSA) in long-term dialysis patients] Utsunomiya M, et al. **Nippon Jinzo Gakkai Shi** 1997 Mar;39(2):129–34 (Eng. Abstr.) **(Jpn)**

[Hemodialysis-associated amyloidosis] Maeda K, et al. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1590–4 (14 ref.) **(Jpn)**

[Frequency of hepatitis GB virus C in patients on maintenance hemodialysis] Shimizu M, et al. **Nippon Rinsho** 1997 Mar;55(3):545–8 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Myelopathy caused by hypertrophy of the posterior longitudinal ligament of the cervical spine in a patient with long-term hemodialysis] Mizuno J, et al. **No Shinkei Geka** 1996 Jul;24(7):655–9 (Eng. Abstr.) **(Jpn)**

[Destructive spondyloarthropathy of the cervical spine in hemodialyzed patients] Fukutake T, et al. **No To Shinkei** 1997 Aug;49(8):713–22 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Non-uremic neuropathy in hemodialysis patients] Kondo H, et al. **No To Shinkei** 1997 Aug;49(8):737–43 (Eng. Abstr.) **(Jpn)**

[Chemotherapy for two patients with non-Hodgkin's lymphoma in hemodialysis] Sano F, et al. **Rinsho Ketsueki** 1996 Aug;37(8):688–93 (Eng. Abstr.) **(Jpn)**

[Cardiac arrhythmias in hemodialysis patients] Murakami S, et al. **Ryoikibetsu Shokogun Shirizu** 1996;(12):402–6 (8 ref.) **(Jpn)**

[Hypertension in dialysis patients] Tagawa H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):126–9 (16 ref.) **(Jpn)**

[Hypotension in dialysis patients] Tagawa H. **Ryoikibetsu Shokogun Shirizu** 1996;(12):130–2 (5 ref.) **(Jpn)**

[Injuries to the knee extensor system in patients with longterm hemodialysis] Twaróg Z, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):393–6 (Eng. Abstr.) **(Pol)**

[Does erythropoietin treatment influence the lipid status of patients on maintenance hemodialysis?] Król E, et al. **Pol Arch Med Wewn** 1995 Nov;94(5):410–7 (Eng. Abstr.) **(Pol)**

[Viral hepatitis type B and C in patients with chronic renal failure treated with dialysis] Niemczyk S. **Pol Arch Med Wewn** 1996 Nov;96(5):484–9 (37 ref.) **(Pol)**

[Pulmonary infarction as a complication of thrombotic changes in an arteriovenous fistula of a patient with terminal renal insufficiency treated with long-term hemodialysis and recombinant human erythropoietin] Wanic-Kossowska M, et al. **Pol Merkuriusz Lek** 1996 Jul; 1(1):47–8 (Eng. Abstr.) **(Pol)**

[Conditions and consequences of cardiac alterations in patients with end-stage renal disease on maintenance hemodialysis] Zabicka H. **Postepy Hig Med Dosw** 1996; 50(3):277–91 (100 ref.) (Eng. Abstr.) **(Pol)**

[Aluminum toxicity in patients with chronic renal failure] Wanic-Kossowska M, et al. **Przegl Lek** 1995;52(12):603–5 (32 ref.) **(Pol)**

[The role of stomach pathology as a risk factor in ulcer formation at different times of chronic dialysis treatment] Ryss ES, et al. **Ter Arkh** 1993;65(2):19–23 (Eng. Abstr.) **(Rus)**

[Visceral protein status and hyperlipoproteinemia in patients on hemodialysis] Peruničić-Peković G, et al. **Med Pregl** 1997 Mar-Apr;50(3-4):112–4 (Eng. Abstr.) **(Scr)**

[Hyperinsulinism in hyperlipoproteinemia in patients on a chronic hemodialysis program] Rašić-Milutinović Z, et al. **Med Pregl** 1997 May-Jun;50(5–6):220–3 (Eng. Abstr.) **(Scr)**

[Hyperthyroidism and hemodialysis] Martín Hernández T, et al. **An Med Interna** 1995 Aug;12(8):391–2 (Eng. Abstr.) **(Spa)**

[Model of urea kinetics in a study of malnutrition in dialysis (editorial)] Ortiz González A, et al. **Nutr Hosp** 1996 Nov-Dec;11(6):303–4 **(Spa)**

[Use of erythropoietin in patients with chronic renal insufficiency and in hemodialysis] Cuero CJ, et al. **Rev Med Panama** 1996 Jan-May;21(1-2):55–9 (Eng. Abstr.) **(Spa)**

ECONOMICS

The economic cost of dialysis: a comparison between peritoneal dialysis and in-center hemodialysis in a Spanish unit. Rodríguez-Carmona A, et al. **Adv Perit Dial** 1996; 12:93–6

Care pathway reduces hospitalizations and cost for hemodialysis vascular access surgery. Becker BN, et al. **Am J Kidney Dis** 1997 Oct;30(4):525–31

Impact of capitation on free-standing dialysis facilities: can you survive? McMurray SD, et al. **Am J Kidney Dis** 1997 Oct;30(4):542–8

Outcomes and cost-effectiveness of initiating dialysis and continuing aggressive care in seriously ill hospitalized adults. SUPPORT Investigators. Study to Understand Prognoses and Preferences for Outcomes and Risks of Treatments. Hamel MB, et al. **Ann Intern Med** 1997 Aug 1;127(3):195–202

Who really determines dialysis? [letter; comment] Polaschegg HD. **ASAIO J** 1996 Nov-Dec;42(6):1031–2. Comment on: ASAIO J 1995 Oct-Dec;41(4):821–3.

Atherosclerotic renovascular disease as a cause of end-stage renal disease: cost considerations. Textor SC. **Blood Purif** 1996;14(4):305–14

Variations in living donor graft rates by dialysis clinic: effect on outcome and cost of chronic renal failure therapy. Baltzan MA, et al. **Clin Nephrol** 1997 Jun;47(6):351–5

The costs of dialysis in the USA. Garella S. **Nephrol Dial Transplant** 1997;12 Suppl 1:10–21 (44 ref.)

The costs of dialysis treatments for patients with end-stage renal disease in France. Jacobs C. **Nephrol Dial Transplant** 1997;12 Suppl 1:29–32 (5 ref.)

The costs of renal services in Britain. Mallick NP. **Nephrol Dial Transplant** 1997;12 Suppl 1:25–8 (0 ref.)

The costs of dialysis in Italy. Piccoli G, et al. **Nephrol Dial Transplant** 1997;12 Suppl 1:33–44 (46 ref.)

The costs of dialysis in Canada. Prichard SS. **Nephrol Dial Transplant** 1997;12 Suppl 1:22–4 (2 ref.)

As fiduciaries physicians hold in trust: life, death, and money--and least of those is money. Kjellstrand CM. **Ren Fail** 1996 May;18(3):417–23 (32 ref.)

Where do we go from here--the future of nephrology in South Africa. van Zyl-Smit R, et al. **S Afr Med J** 1997 May;87(5):591–4

Hemodialysis and transplantation cost-effectiveness analysis. Cogny-Van Weydevelt F, et al. **Transplant Proc** 1996 Oct; 28(5):2838

HISTORY

A history of natural membranes in dialysis. Diamandopoulos AA. **Am J Nephrol** 1997;17(3-4):304–14

History of the science of dialysis. Gottschalk CW, et al. **Am J Nephrol** 1997;17(3–4):289–98

Origins and early reception of clinical dialysis. Peitzman SJ. **Am J Nephrol** 1997;17(3–4):299–303

Special issue in memoriam of Albert Válek. **Int J Artif Organs** 1997 Feb;20(2):67–126

The hemodialysis membranes: a historical perspective, current state and future prospect. Cheung AK, et al. **Semin Nephrol** 1997 May;17(3):196–213

A brief history of vascular access for hemodialysis: an unfinished story. Kapoian T, et al. **Semin Nephrol** 1997 May;17(3):239–45

How end-stage renal disease (ESRD)-Medicare developed. Schreiner GE. **Semin Nephrol** 1997 May;17(3):152–9

Dialysis equipment and dialysate, past, present and the future. Van Stone JC. **Semin Nephrol** 1997 May;17(3):214–7

INSTRUMENTATION

Dialyzer reprocessing with peroxyacetic acid as sole cleansing and sterilizing agent. Kes P, et al. **Acta Med Croatica** 1997;51(2):87–93

The effect of hollow-fiber dialyzer Plivadial Altra-Flux 140 on beta-2-microglobulin removal. Kes P, et al. **Acta Med Croatica** 1997;51(2):105–9

Clinical evaluation of Altra-Flux 140 cellulose diacetate hollow-fiber dialyzer. Kes P, et al. **Acta Med Croatica** 1996; 50(1):45–8

The role of platelet-activating factor in the biocompatibility of hemodialysis membranes. Tetta C, et al. **Adv Exp Med Biol** 1996;416:243–8 (40 ref.)

Peritoneal catheter-related complications: a comparison between hemodialysis and intermittent peritoneal dialysis in the break-in period. Cheng YL, et al. **Adv Perit Dial** 1996;12:231–4

The use of biocompatible dialysis membranes in acute renal failure. Himmelfarb J, et al. **Adv Ren Replace Ther** 1997 Apr;4(2 Suppl 1):72–80 (86 ref.)

Biocompatible membranes preserve residual renal function in patients undergoing regular hemodialysis. Hartmann J, et al. **Am J Kidney Dis** 1997 Sep;30(3):366–73

Improved preservation of residual renal function in chronic hemodialysis patients using polysulfone dialyzers. McCarthy JT, et al. **Am J Kidney Dis** 1997 Apr; 29(4):576–83

Maintaining blood compartment volume in dialyzers reprocessed with peracetic acid maintains Kt/V but not beta2-microglobulin removal. Ouseph R, et al. **Am J Kidney Dis** 1997 Oct;30(4):501–6

Long-term performance and complications of the Tesio twin catheter system for hemodialysis access. Prabhu PN, et al. **Am J Kidney Dis** 1997 Aug;30(2):213–8

Paradoxical cerebral air embolism from a hemodialysis catheter. Yu AS, et al. **Am J Kidney Dis** 1997 Mar; 29(3):453–5 (13 ref.)

High-flux hemodialysis postpones clinical manifestation of dialysis-related amyloidosis. Küchle C, et al. **Am J Nephrol** 1996;16(6):484–8

Reinforced versus nonreinforced polytetrafluoroethylene grafts for hemodialysis access. Schuman ES, et al. **Am J Surg** 1997 May;173(5):407–10

Continuous renal replacement therapy in critically ill patients: monitoring circuit function. Holt AW, et al. **Anaesth Intensive Care** 1996 Aug;24(4):423–9

Malposition of a dialysis catheter in the accessory hemiazygos vein. Muhm M, et al. **Anesth Analg** 1996 Oct;83(4):883–5

A new technique for hemodialysis access surgery: use of the pneumatic tourniquet. Dickson CS, et al. **Ann Vasc Surg** 1996 Jul;10(4):373–7

Red cell injury assessed in a numeric model of a peripheral dialysis needle. De Wachter DS, et al. **ASAIO J** 1996 Sep-Oct;42(5):M524–9

Dialysis. Soltys M. **Biomed Instrum Technol** 1997 Jul-Aug; 31(4):410–2

Ex vivo elution of hemodialyzers. An additional criterion for the assessment of bioincompatibility. Grooteman MP, et al. **Blood Purif** 1996;14(6):421–30

Flow-cytometric study of granulocyte activation during hemodialysis with different membranes. Mordacchini M, et al. **Blood Purif** 1995 Nov-Dec;13(6):322–6

Mechanisms and kinetics of the synthesis and release of platelet-activating factor (PAF) by polyacrylonitrile membranes. Guastoni C, et al. **Clin Nephrol** 1996 Aug; 46(2):132–8

Comparison of aluminum removal between hemodialysis with polycarbonate low flux membrane and hemofiltration with polysulfone high flux membrane in end-stage renal failure patients [letter] Klemm A, et al. **Clin Nephrol** 1997 Feb; 47(2):133–4

Single or dual lumen long-term hemodialysis catheters--does it matter which? [letter] Kumwenda MJ. **Clin Nephrol** 1997 Jul;48(1):61–3

Blood recirculation in temporary central catheters for acute hemodialysis. Leblanc M, et al. **Clin Nephrol** 1996 May; 45(5):315–9

Transfer of cytokine-inducing bacterial products across hemodialyzer membranes in the presence of plasma or whole blood. Pereira BJ, et al. **Clin Nephrol** 1996 Dec; 46(6):394–401

The effect of needle gauges on recirculation: a reply to Hasbargen et al [letter; comment] Portolés J, et al. **Clin Nephrol** 1997 Jan;47(1):65–6. Comment on: Clin Nephrol 1995 Nov;44(5):322–4.

Biocompatible dialysis membranes and acute renal failure: a study in post-operative acute tubular necrosis in cadaveric renal transplant recipients. Valeri A, et al. **Clin Nephrol** 1996 Dec;46(6):402–9

Local thrombolysis with recombinant tissue plasminogen activator for thrombosed vascular access in hemodialysis patients [letter] [see comments] Vlassopoulos D, et al. **Clin Nephrol** 1996 Jul;46(1):77–8. Comment in: Clin Nephrol 1997 Mar;47(3):208.

Stripping of failing haemodialysis catheters using the Ampltaz gooseneck snare. Rockall AG, et al. **Clin Radiol** 1997 Aug;52(8):616–20

Measuring the adequacy of hemodialysis access. Besarab A, et al. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):527–31 (57 ref.)

The effects of dialyzer reuse on plasma antioxidative mechanisms in patients on regular hemodialysis treatment. Gündüz Z, et al. **Free Radic Biol Med** 1996;21(2):225–31

Impact of spacing filaments external to hollow fibers on dialysate flow distribution and dialyzer performance. Ronco C, et al. **Int J Artif Organs** 1997 May;20(5):261–6

Permeability and adsorption capacity of dialysis membranes to lipid A. Weber C, et al. **Int J Artif Organs** 1997 Mar; 20(3):144–52

Biocompatible dialysis membrane in acute renal failure: the best choice. French Study Group on Acute Renal Failure [letter] Brivet F, et al. **Intensive Care Med** 1996 Aug; 22(8):833–4

Potential transfer of endotoxin across high-flux polysulfone membranes. Bommer J, et al. **J Am Soc Nephrol** 1996 Jun; 7(6):883–8

Hemodialysis vascular access morbidity [editorial] Feldman HI, et al. **J Am Soc Nephrol** 1996 Apr;7(4):523–35 (88 ref.)

A comparison of three brands of polysulfone membranes. Hoenich NA, et al. **J Am Soc Nephrol** 1996 Jun;7(6):871–6

The use of heated citric acid for dialyzer reprocessing. Levin NW, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1578–85

Endotoxin rejection by ultrafiltration through high-flux, hollow fiber filters. Yamamoto C, et al. **J Biomed Mater Res** 1996 Nov;32(3):467–71

Transvenous removal of fibrin sheaths from tunneled hemodialysis catheters. Haskal ZJ, et al. **J Vasc Interv Radiol** 1996 Jul-Aug;7(4):513–7

Gianturco Z stents for hemodialysis grafts [letter; comment] Roy S. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):985. Comment on: J Vasc Interv Radiol 1995 May-Jun;6(3):387–96.

You are asked to place a dialysis access catheter in a patient.

What is your preferred access site, and why? Trerotola SO. **J Vasc Interv Radiol** 1997 Jan-Feb;8(1 Pt 1):75-6 (10 ref.)

Thrombolysis versus surgical thrombectomy for the treatment of dialysis graft thrombosis: pilot study comparing costs. Vesely TM, et al. **J Vasc Interv Radiol** 1996 Jul-Aug;7(4):507-12

Hemodialyzer mass transfer-area coefficients for urea increase at high dialysate flow rates. The Hemodialysis (HEMO) Study. Leypoldt JK, et al. **Kidney Int** 1997 Jun; 51(6):2013-7

Effect of the membrane biocompatibility on nutritional parameters in chronic hemodialysis patients. Parker TF 3rd, et al. **Kidney Int** 1996 Feb;49(2):551-6

Is adsorption an important characteristic of dialysis membranes? Pascual M, et al. **Kidney Int** 1996 Feb; 49(2):309-13 (60 ref.)

Boron diffusion across the dialysis membrane during hemodialysis. Usuda K, et al. **Miner Electrolyte Metab** 1997;23(2):100-4

In-vivo induction of monocyte chemotactic and activating factor in patients with chronic renal failure. Akahoshi T, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2244-9

Dialysis membrane biocompatibility: effects on cellular elements. Coli L, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:27-32

Meltspun cellulose diacetate and polysulfone membranes have the same effect on complement activation and expression of leukocyte adhesion molecules and complement receptors. Dameche L, et al. **Nephrol Dial Transplant** 1995;10 Suppl 10:33-8

Recent advances in the biocompatibility of haemodialysis membranes. Hakim RM. **Nephrol Dial Transplant** 1995;10 Suppl 10:7-11 (50 ref.)

Haemodialyser performance--a need for in-vivo data? [editorial] Hoenich NA. **Nephrol Dial Transplant** 1995 Dec; 10(12):2172-4

Indwelling silicone femoral catheters: experience of three haemodialysis centres. Montagnac R, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):772-5

Cellular proliferation and second messenger formation altered by dialysis membranes. Pacini S, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):500-4

In vitro mitochondrial test to assess haemodialyser biocompatibility. Tabouy LJ, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1635-9

Advantages and limits of the jugular catheter approach [editorial] Twardowski ZJ. **Nephrol Dial Transplant** 1995 Dec;10(12):2178-82

Plasma levels of terminal complement complex in the evaluation of bioincompatibility [letter] Duranay M, et al. **Nephron** 1996;73(2):331

Infectivity from hydraulic circuits of individual dialysate supply systems [letter] Guiserix J. **Nephron** 1996;74(2):470

Biocompatibility of haemodialysis membranes: haemodialysis-related leukotriene B4 and C4 generation. France. Hornych A, et al. **Nephron** 1996;74(1):11-8

Recovery from ischemic acute renal failure: independence from dialysis membrane type. Kränzlin B, et al. **Nephron** 1996;73(4):644-51

Hemodialysis catheter survival and complications in children and adolescents. Goldstein SL, et al. **Pediatr Nephrol** 1997 Feb;11(1):74-7

The technology of dialyzer reuse. Schoenfeld PY. **Semin Nephrol** 1997 Jul;17(4):321-30 (56 ref.)

[A new method of ex vivo whole blood perfusion of isolated mammalian organs, exemplified by the kidney of swine] von Baeyer H, et al. **Biomed Tech (Berl)** 1997 Mar; 42(3):61-8 (Eng. Abstr.) **(Ger)**

[From sample collection to testing. C. Evaluation of efficacy of blood-collecting tubes designed for hemodialysis] Ise T, et al. **Rinsho Byori** 1996 Nov;Suppl 103:27-34 **(Jpn)**

[Permanent catheter as an alternative vascular access for hemodialysis] Milkowski A, et al. **Przegl Lek** 1996; 53(11):805-10 (Eng. Abstr.) **(Pol)**

METHODS

Prescribing hemodialysis using a nomogram approach to urea kinetic modelling. Kes P. **Acta Med Croatica** 1996; 50(3):137-44

Grams to milliequivalents: a concise guide to adjusting hemodialysate composition. Carlsen DB, et al. **Adv Ren Replace Ther** 1996 Jul;3(3):261-5 (2 ref.)

Hemodialysis in Ibadan: a preliminary report on the first 100 dialysis. Arije A, et al. **Afr J Med Med Sci** 1995 Sep; 24(3):255-9 (7 ref.)

Plasma glucose turnover and oxidation during hemodialysis: nutritional effect of dialysis fluid. Skutches CL, et al. **Am J Clin Nutr** 1997 Jan;65(1):128-35

The USRDS Dialysis Morbidity and Mortality Study: Wave 2. United States Renal Data System. **Am J Kidney Dis** 1997 Aug;30(2 Suppl 1):S67-85

Dialysate sodium delivery can alter chronic blood pressure management. Flanigan MJ, et al. **Am J Kidney Dis** 1997 Mar;29(3):383-91

Sodium ramping in hemodialysis: a study of beneficial and adverse effects. Sang GL, et al. **Am J Kidney Dis** 1997 May;29(5):669-77

Effective clearance of methotrexate using high-flux hemodialysis membranes. Wall SM, et al. **Am J Kidney Dis** 1996 Dec;28(6):846-54

Advantages of polytetrafluoroethylene arteriovenous loops in the thigh for hemodialysis access. Khadra MH, et al. **Am J Surg** 1997 Apr;173(4):280-3

Low-calcium dialysis in calciphylaxis [letter] Lipsker D, et al. **Arch Dermatol** 1997 Jun;133(6):798-9

Hemodialysis urea rebound and membrane biocompatibility: accuracy of Kt/V estimations. Navarro JF, et al. **Artif Organs** 1997 Feb;21(2):91-5

Membranes in artificial organs. Schmidt B. **Artif Organs** 1996 May;20(5):375-80 (16 ref.)

Dialysis time. What should it be? Charra B. **ASAIO J** 1997 May-Jun;43(3):228-9

Replacing renal function with gastrointestinal nitrogen extraction [editorial] Friedman EA. **ASAIO J** 1996 Nov-Dec;42(6):929-31 (35 ref.)

Duration and adequacy of dialysis. Overview: the science is easy, the ethic is difficult. Kjellstrand CM. **ASAIO J** 1997 May-Jun;43(3):220-4

Heparin free hemodialysis using heparin coated hemophan. Mujais SK, et al. **ASAIO J** 1996 Sep-Oct;42(5):M538-41

Treatment time for hemodialysis. What should it be? Port FK. **ASAIO J** 1997 May-Jun;43(3):225-7 (16 ref.)

Difference between delivered and prescribed blood flow in hemodialysis. Sands J, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M717-9

Death on dialysis and the time/flux trade-off [editorial] Henderson LW, et al. **Blood Purif** 1997;15(1):1-14

Increasing numbers of AV fistulas for hemodialysis access. Sands J, et al. **Clin Nephrol** 1997 Aug;48(2):114-7

Clearance of fluoride by hemodialysis [letter] Usuda K, et al. **Clin Nephrol** 1996 May;45(5):363-4

Influence of changes in ionized calcium on cardiovascular reactivity during hemodialysis. van Kuijk WH, et al. **Clin Nephrol** 1997 Mar;47(3):190-6

Multiple-dose pharmacokinetics of cefpirome in long-term hemodialysis with high-flux membranes. Thalhammer F, et al. **Clin Pharmacol Ther** 1996 Dec;60(6):645-50

Calcium free hemodialysis: experience in the treatment of 33 patients with severe hypercalcemia. Camus C, et al. **Intensive Care Med** 1996 Feb;22(2):116-21

Amino acid losses and nitrogen balance during slow diurnal hemodialysis in critically ill patients with renal failure. Kihara M, et al. **Intensive Care Med** 1997 Jan;23(1):110-3

The benefits and side-effects of ramped hypertonic sodium dialysis [letter; comment] Locatelli F, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2704-6. Comment on: J Am Soc Nephrol 1996 Feb;7(2):242-6.

Parameters of prognostic relevance to the patency of vascular access in hemodialysis patients. Prischl FC, et al. **J Am Soc Nephrol** 1995 Dec;6(6):1613-8

Effective hemodialysis and hemofiltration driven by an extracorporeal membrane oxygenation pump in infants with hyperammonemia. Summar M, et al. **J Pediatr** 1996 Mar; 128(3):379-82

Vascular access for haemodialysis. Lear Pa. **J R Soc Med** 1996;89 Suppl 29:21

Image-guided insertion of the Uldall tunneled hemodialysis catheter: technical success and clinical follow-up. Schnabel KJ, et al. **J Vasc Interv Radiol** 1997 Jul-Aug;8(4):579-86

Relationship of dose of hemodialysis and cause-specific mortality. Bloembergen WE, et al. **Kidney Int** 1996 Aug; 50(2):557-65

Effect of the dialysis membrane on mortality of chronic hemodialysis patients. Hakim RM, et al. **Kidney Int** 1996 Aug;50(2):566-70

The dose of hemodialysis and patient mortality. Held PJ, et al. **Kidney Int** 1996 Aug;50(2):550-6

Effects of different membranes and dialysis technologies on patient treatment tolerance and nutritional parameters. The Italian Cooperative Dialysis Study Group. Locatelli F, et al. **Kidney Int** 1996 Oct;50(4):1293-302

Effect of a new model of hemodialysis potassium removal on the control of ventricular arrhythmias. Redaelli B, et al. **Kidney Int** 1996 Aug;50(2):609-17

Blood transfusion during heparin-free hemodialysis. Sepulveda S, et al. **Kidney Int** 1997 Jun;51(6):2018-21

Alternative puncture site for implantable permanent haemodialysis catheters. Apsner R, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2293-5

Biotechnology in profiled dialysis. Bonomini V, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:63-7 (25 ref.)

Tolerance of haemodialysis: a randomized cross-over trial of 5-h versus 4-h treatment time. Brunet P, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:46-51

Ultrasound-guided cannulation versus the landmark-guided technique for acute haemodialysis access. Farrell J, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1234-7

Continuous administration of intravenous iron during haemodialysis. Granolleras C, et al. **Nephrol Dial Transplant** 1997 May;12(5):1007-8

Bicarbonate haemodialysis as a treatment of metformin overdose. Heaney D, et al. **Nephrol Dial Transplant** 1997 May;12(5):1046-7

Clinical assessment of continuous dialysate osmolality and ultrafiltration control in haemodialysis by seven different profiles [letter] Jean G. **Nephrol Dial Transplant** 1996 Nov; 11(11):2374-5

Relevance of the ulnaris fistula as a dialysis shunt [letter] Kinnaert P. **Nephrol Dial Transplant** 1995 Dec;10(12):2379

Two different techniques and outcomes for insertion of long-term tunnelled haemodialysis catheters. Kumwenda MJ. **Nephrol Dial Transplant** 1997 May;12(5):1013-6

Ultrasound-guided cannulation of the femoral vein for acute haemodialysis access. Kwon TH, et al. **Nephrol Dial Transplant** 1997 May;12(5):1009-12

How to keep the dialysis patients normotensive? What is the secret of Tassin? Laurent G. **Nephrol Dial Transplant** 1997 Jun;12(6):1104

Comparison of high-efficiency and standard haemodialysis providing equal urea clearances by partial and total dialysate quantification. Mactier RA, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1182-6

Ionic dialysance as a method for the on-line monitoring of delivered dialysis without blood sampling. Manzoni C, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2023-30

Haemodialysis without anticoagulant: haemostasis parameters, fibrinogen kinetic, and dialysis efficiency. Romão JE Jr, et al. **Nephrol Dial Transplant** 1997 Jan; 12(1):106-10

Profiling dialysis: a new approach to dialysis intolerance [editorial] Bonomini V, et al. **Nephron** 1997;75(1):1-6 (26 ref.)

First-choice vascular access in patients over 65 years of age starting dialysis [letter] Gómez Campderá FJ, et al. **Nephron** 1996;73(2):342-3

Emergency hemodialysis using lactate-buffered dialysate [letter] Guiserix J, et al. **Nephron** 1997;75(1):101-2

Calculation of an 'adequate' Kt/V in the individual patient [letter] Schück O, et al. **Nephron** 1996;74(1):225-6

Vascular access for hemodialysis in children. Brittinger WD, et al. **Pediatr Nephrol** 1997 Feb;11(1):87-95 (36 ref.)

Dosage recommendation of vancomycin during haemodialysis with highly permeable membranes. Zoer J, et al. **Pharm World Sci** 1997 Aug;19(4):191-6

Effects of dialysis membrane on intradialytic vancomycin administration. Scott MK, et al. **Pharmacotherapy** 1997 Mar-Apr;17(2):256-62

Outcome of tunneled hemodialysis catheters placed via the right internal jugular vein by interventional radiologists. Trerotola SO, et al. **Radiology** 1997 May;203(2):489-95

Changes in the quality of life of patients with end-stage renal disease treated with high-efficiency bicarbonate hemodialysis in Mexico. De Icaza E, et al. **Ren Fail** 1997 Jan;19(1):99-110

Prognostic indexes and mortality in critically ill patients with acute renal failure treated with different dialytic techniques. Rialp G, et al. **Ren Fail** 1996 Jul;18(4):667-75

Can hemodialysis technique modify the hypercatabolic state? Sunder-Plassmann G, et al. **Ren Fail** 1996 May; 18(3):395-404 (70 ref.)

[Femoral indwelling silicone catheter: experience of three hemodialysis centers] Montagnac R, et al. **Nephrologie** 1996;17(8):447-52 (Eng. Abstr.) **(Fre)**

[Radiologically implanted subcutaneous tunneled central venous catheters for dialysis: the course and complications] Kluge A, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Mar;166(3):230-2 (Eng. Abstr.) **(Ger)**

[The analysis of plasma beta 2-microglobulin concentration in patients with chronic renal failure treated by hemodialysis] Król Z, et al. **Pediatr Pol** 1996 Feb; 71(2):121-5 (Eng. Abstr.) **(Pol)**

[Prolonged use of the femoral catheter as a temporary access for hemodialysis] Weyde W, et al. **Przegl Lek** 1997; 54(3):171-2 (Eng. Abstr.) **(Pol)**

[Prescription of hemodialysis in patients with chronic renal insufficiency] **Gac Med Mex** 1994 Jul-Aug;130(4):269-71 (0 ref.) **(Spa)**

MORTALITY

Cardiovascular factors influencing survival in dialysis patients. Alpert MA. **Adv Perit Dial** 1996;12:110-9 (57 ref.)

Comparison of long-term survival between hemodialysis and peritoneal dialysis. Maiorca R, et al. **Adv Perit Dial** 1996; 12:79-88 (34 ref.)

Predictive value of nutritional markers (albumin, creatinine, cholesterol, and hematocrit) for patients on dialysis for up to 30 years. Avram MM, et al. **Am J Kidney Dis** 1996 Dec;28(6):910-7

Enrollment parathyroid hormone level is a new marker of survival in hemodialysis and peritoneal dialysis therapy for uremia. Avram MM, et al. **Am J Kidney Dis** 1996 Dec; 28(6):924-30

Modeling mortality risk in hemodialysis patients using laboratory values as time-dependent covariates [see comments] Culp K, et al. **Am J Kidney Dis** 1996 Nov; 28(5):741-6. Comment in: Am J Kidney Dis 1997 Aug;30(2):308-9.

Hemodialysis versus peritoneal dialysis: a comparison of adjusted mortality rates [see comments] Fenton SS, et al. **Am J Kidney Dis** 1997 Sep;30(3):334-42. Comment in: Am J Kidney Dis 1997 Sep;30(3):445-7.

Albumin trend and mortality [letter; comment] Goldwasser P. **Am J Kidney Dis** 1997 Aug;30(2):308-9. Comment on: Am J Kidney Dis 1996 Nov;28(5):741-6.

Impact of the initial levels of laboratory variables on survival in chronic dialysis patients. Iseki K, et al. **Am J Kidney Dis** 1996 Oct;28(4):541-8

Hypertension in the hemodialysis population: any relation to one-year survival? [see comments] Salem MM, et al. **Am J Kidney Dis** 1996 Nov;28(5):737-40. Comment in: Am J Kidney Dis 1997 May;29(5):811-2.

Prealbumin is the best nutritional predictor of survival in hemodialysis and peritoneal dialysis. Sreedhara R, et al. **Am J Kidney Dis** 1996 Dec;28(6):937-42

Nutritional status as a predictor of morbidity and mortality in maintenance dialysis patients. Kopple JD. **ASAIO J** 1997 May-Jun;43(3):246-50 (48 ref.)

Arterial hypertension and mortality in dialysis patients. RPDT Working Group. Quarello F, et al. **Contrib Nephrol** 1996;119:141-6 (18 ref.)

Influence of smoking on the survival rate of diabetic patients requiring hemodialysis. Biesenbach G, et al. **Diabetes Care** 1996 Jun;19(6):625-8

Survival during renal replacement therapy for diabetic end-stage renal disease in Pima Indians. Nelson RG, et al. **Diabetes Care** 1996 Dec;19(12):1333-7

Relationship of dose of hemodialysis and cause-specific mortality. Bloembergen WE, et al. **Kidney Int** 1996 Aug; 50(2):557-65

Effect of the dialysis membrane on mortality of chronic hemodialysis patients. Hakim RM, et al. **Kidney Int** 1996 Aug;50(2):566-70

The dose of hemodialysis and patient mortality. Held PJ, et al. **Kidney Int** 1996 Aug;50(2):550-6

Low diastolic blood pressure, hypoalbuminemia, and risk of death in a cohort of chronic hemodialysis patients. Iseki K, et al. **Kidney Int** 1997 Apr;51(4):1212-7

Survival in haemodialysis: is there a role for vascular access? [letter] [see comments] de Almeida E, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):852. Comment in: Nephrol Dial Transplant 1997 Apr;12(4):657-9.

Late diagnosis of chronic renal failure and mortality on maintenance dialysis. Sesso R, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2417-20

Survival in long-term haemodialysis patients: results from the annual survey of the Japanese Society for Dialysis Therapy [news] [corrected and republished article originally printed in Nephrol Dial Transplant 1996 Nov;11(11):2139-42] Shinzato T, et al. **Nephrol Dial Transplant** 1997 May;12(5):884-8

Sudden death in chronic dialysis patients. Takeda K, et al. **Nephrol Dial Transplant** 1997 May;12(5):952-5

The study of outcomes for CAPD versus hemodialysis patients. Port FK, et al. **Perit Dial Int** 1996 Nov-Dec; 16(6):628-33

An analysis of the patency of vascular access grafts for hemodialysis using the Medicare Part B claims database. Kennedy MT, et al. **Semin Vasc Surg** 1996 Sep;9(3):262-5

[Patient survival, a change in methods, and hospitalization in CAPD abd hemodialysis] Sitter T, et al. **Dtsch Med Wochenschr** 1997 Jan 31;122(5):109-15 (Eng. Abstr.) **(Ger)**

NURSING

Nursing interventions related to vascular access infections. Thomas-Hawkins C. **Adv Ren Replace Ther** 1996 Jul; 3(3):218-21 (56 ref.)

Comparative distribution and use of humour within nurse-patient communication [published erratum appears in Int J Nurs Stud 1996 Dec;33(6):675] Mallett J, et al. **Int J Nurs Stud** 1996 Oct;33(5):530-50

PSYCHOLOGY

Withdrawal from dialysis: a review with an emphasis on the black experience. Leggat JE Jr, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):22-9 (44 ref.)

Factors influencing dialysis patients' completion of advance directives. Holley JL, et al. **Am J Kidney Dis** 1997 Sep; 30(3):356-60

Dialysis patient attitudes toward financial incentives for kidney donation. Sehgal AR, et al. **Am J Kidney Dis** 1997 Mar;29(3):410-8

Choice of treatment improves quality of life. A study on patients undergoing dialysis. Szabo E, et al. **Arch Intern Med** 1997 Jun 23;157(12):1352-6

Survivor guilt and chronic illness. Vamos M. **Aust N Z J Psychiatry** 1997 Aug;31(4):592-6

Ambivalence and dialysis discontinuation. Cohen LM, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6):431-5 (42 ref.)

Use of a token economy to increase compliance during hemodialysis. Carton JS, et al. **J Appl Behav Anal** 1996 Spring;29(1):111-3

Body consciousness, illness-related impairment, and patient adherence in hemodialysis. Christensen AJ, et al. **J Consult Clin Psychol** 1996 Feb;64(1):147-52

Psychiatric complications of hemodialysis at a kidney center in Nigeria. Aghanwa HS, et al. **J Psychosom Res** 1997 May; 42(5):445-51

Quality of life in dialysis patients. A spanish multicentre study. Spanish Cooperative Renal Patients Quality of Life Study Group. Moreno F, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:125-9

Cynical hostility, powerful others control expectancies, and patient adherence in hemodialysis. Christensen AJ, et al. **Psychosom Med** 1997 May-Jun;59(3):307-12

Denying the dying. Advance directives and dialysis discontinuation. Cohen LM, et al. **Psychosomatics** 1997 Jan-Feb;38(1):27-34

Erythropoietin and visual hallucinations in patients on dialysis. Steinberg H, et al. **Psychosomatics** 1996 Nov-Dec; 37(6):556-63

Psychosocial and cognitive factors associated with adherence to dietary and fluid restriction regimens by people on chronic haemodialysis. Sensky T, et al. **Psychother Psychosom** 1996;65(1):36-42

Quality of life in predialytic uremic patients. Klang B, et al. **Qual Life Res** 1996 Feb;5(1):109-16

[Quality of life of patients treated by hemodialysis] Riabov SI, et al. **Klin Med (Mosk)** 1996;74(8):29-31 **(Rus)**

[The psychosomatic aspects of patient adaptation to hemodialysis treatment] Petrova NN, et al. **Ter Arkh** 1997; 69(4):66-9 **(Rus)**

[Voice frequencies in patients treated with chronic hemodialysis] Nešić M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:99-101 (Eng. Abstr.) **(Scc)**

STANDARDS

NKF-DOQI clinical practice guidelines for hemodialysis adequacy. National Kidney Foundation. **Am J Kidney Dis** 1997 Sep;30(3 Suppl 2):S15-66

Improvement in adequacy of delivered dialysis for adult in-center hemodialysis patients in the United States, 1993 to 1995. Helgerson SD, et al. **Am J Kidney Dis** 1997 Jun; 29(6):851-61

Methodological limitations of the ESRD Core Indicators Project: an ESRD network's experience with implementing an ESRD quality survey. Medical Review Board of the ESRD Network of New England. Owen WF Jr, et al. **Am J Kidney Dis** 1997 Sep;30(3):349-55

Hemocompatible cellulose dialysis membranes modified with phospholipid polymers. Ishihara K, et al. **Artif Organs** 1995 Dec;19(12):1215-21

Dialysis in rats with acute renal failure: evaluation of three different dialyzer membranes. Kränzlin B, et al. **Artif Organs** 1996 Nov;20(11):1162-8

Characterization of molecular transport in artificial kidneys. Leypoldt JK, et al. **Artif Organs** 1996 May;20(5):381-9 (37 ref.)

Clinical trial of new polyurethane vascular grafts for hemodialysis: compared with expanded polytetrafluoroethylene grafts. Nakagawa Y, et al. **Artif Organs** 1995 Dec;19(12):1227-32

The well being of hemodialysis patients [editorial] Nosé Y. **Artif Organs** 1995 Dec;19(12):1201

Anterior chest wall axillary artery to contralateral axillary vein graft for vascular access in hemodialysis. Ono K, et al. **Artif Organs** 1995 Dec;19(12):1233-6

Effects of one year of hemodialysis on weight and blood pressure in 434 patients. Salem MM, et al. **Artif Organs** 1997 May;21(5):402-4

Normalization of hematocrit with recombinant human erythropoietin in chronic hemodialysis patients does not fully improve their exercise tolerance abilities. Suzuki M, et al. **Artif Organs** 1995 Dec;19(12):1258-61

A novel method to evaluate thromboresistance of drip chambers with filter used in extracorporeal blood circuits for hemodialysis. Yamazaki M, et al. **Artif Organs** 1997 Feb;21(2):160-3

The effect of blood contact and reuse on the transport properties of high-flux dialysis membranes. Kunas GA, et al. **ASAIO J** 1996 Jul-Aug;42(4):288-94

Further experience with a percutaneously inserted double-lumen Silastic catheter for end-stage renal failure patients with refractory vascular access problems. Mustata S, et al. **ASAIO J** 1996 Jul-Aug;42(4):244-5

Assessment of the best compatible dialysis system: feasible application for bioelectrical impedance. Bazzato G, et al. **Int J Artif Organs** 1995 Nov;18(11):712-5

Protein removal by a new polymethylmethacrylate membrane [letter; comment] Calzavara P, et al. **Int J Artif Organs** 1996 Aug;19(8):493-4. Comment on: Int J Artif Organs 1996 Apr;19(4):232-9.

Coagulation activation in extracorporeal hemodialysis. Camici M, et al. **Int J Artif Organs** 1997 Mar;20(3):163-5

Effect of different dialysis membranes on platelet function. A tool for biocompatibility evaluation. De Sanctis LB, et al. **Int J Artif Organs** 1996 Jul;19(7):404-10

The concept of "dry weight" in maintenance hemodialysis: flaws in clinical application [editorial] Ifudu O. **Int J Artif Organs** 1996 Jul;19(7):384-6 (22 ref.)

Comparison between urea removal in hemodialysis and continuous ambulatory peritoneal dialysis using a mathematical kinetic model. Kanamori T, et al. **Int J Artif Organs** 1997 Mar;20(3):158-62

Computational analysis of blood volume dynamics during hemodialysis. Lopot F, et al. **Int J Artif Organs** 1997 Feb; 20(2):91-5 (4 ref.)

In vitro blood compatibility evaluation of hollow fibre membrane using a controlled flow system: a comparative study. Matata BM, et al. **Int J Artif Organs** 1996 Oct; 19(10):582-9

A clinical study to assess the effect of heparin in dialyzer rinsing solutions. Opatrný K Jr, et al. **Int J Artif Organs** 1997 Feb;20(2):112-8

Hemodialysis using a constant potassium gradient: rationale of a multicenter study. Redaelli B, et al. **Int J Artif Organs** 1995 Nov;18(11):731-4

Beta 2-microglobulin removal by synthetic dialysis membranes. Mechanisms and kinetics of the molecule. Ronco C, et al. **Int J Artif Organs** 1997 Mar;20(3):136-43

Ethylene-oxide and steam-sterilised polysulfone membrane in dialysis patients with eosinophilia. Santoro A, et al. **Int J Artif Organs** 1996 Jun;19(6):329-35

Comparative study on reused haemodialysis membranes. Sótonyi P, et al. **Int J Artif Organs** 1996 Jul;19(7):387-92

A comparison of the dual lumen and coaxial catheters for temporary hemodialysis access. Walters GK, et al. **Int J Artif Organs** 1997 Apr;20(4):208-12

Audit of quality of hospital haemodialysis in Scotland. The Scottish Renal Registry [news] **Nephrol Dial Transplant** 1997 Jan;12(1):29-32

Is it worth performing kidney replacement therapy on patients Over 80? [news] Röhrich B, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2412-3

Renal replacement therapy. What are the differences between Japan and Europe? Valderrábano F. **Nephrol Dial Transplant** 1996 Nov;11(11):2151-3

Further evidence for nosocomial spread of hepatitis C virus infection in hemodialysis units [letter] Dimković N, et al. **Nephron** 1996;74(2):488

Adequacy of hemodialysis 1996 [editorial] Shohat J, et al. **Nephron** 1997;76(1):1-6

End-stage renal disease: a proving ground for quality improvement in health care. Rutherford WE, et al. **Semin Nephrol** 1997 May;17(3):218-25 (28 ref.)

STATISTICS & NUMERICAL DATA

Racial differences in incidence, outcome, and quality of life for African-Americans on hemodialysis. Owen WF Jr. **Blood Purif** 1996;14(4):278-85

Using USRDS generated hospitalization tables to compare local dialysis patient hospitalization rates to national rates. Strawderman RL, et al. **Kidney Int** 1996 Aug;50(2):571-8

Elderly patients on dialysis: epidemiology of an epidemic. Giuseppe P, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:26-30

A conceptual-methodological framework for a participatory use of the EDTA registry [editorial] Tognoni G. **Nephrol Dial Transplant** 1997 Feb;12(2):251-3

Epidemiologic analysis of diabetic patients on chronic dialysis. Sunagawa H, et al. **Nephron** 1996;74(2):361-6

[Dialysis therapy in the Czech Republic in 1995] Lachmanová J, et al. **Cas Lek Cesk** 1997 Jun 26; 136(13):395-8 (Eng. Abstr.) **(Cze)**

[Survey on the practice of extrarenal hemofiltration in pediatrics] Gouyon JB, et al. **Arch Pediatr** 1996 Aug; 3(8):769-74 (Eng. Abstr.) **(Fre)**

[Terminal chronic renal insufficiency in the south of Réunion. Epidemiology, survival on dialysis] Guiserix J, et al. **Nephrologie** 1997;18(3):103-11 (Eng. Abstr.) **(Fre)**

[Access to chronic dialysis treatment: deficient and unequal] Sesso R, et al. **Rev Assoc Med Bras** 1996 Apr-Jun; 42(2):84-8 (Eng. Abstr.) **(Por)**

[The conclusions from an analysis of 9 approaches to determining the value of KT/Vur] Novikov AI, et al. **Urol Nefrol (Mosk)** 1996 May-Jun;(3):26-31 (Eng. Abstr.) **(Rus)**

[Replacement treatment of chronic renal insufficiency. Current perspectives (editorial)] Ortuño Mirete J. **Rev Clin Esp** 1997 May;197(5):306-16 (97 ref.) **(Spa)**

TRENDS

Continuous renal replacement therapies in the acute renal failure setting: current concepts. Mehta RL. **Adv Ren Replace Ther** 1997 Apr;4(2 Suppl 1):81-92 (92 ref.)

Dialysis in the 21st century. Henderson LW. **Am J Kidney Dis** 1996 Dec;28(6):951-7

ESRD modality selection into the 21st century: the importance of non medical factors. Nissenson AR, et al. **ASAIO J** 1997 May-Jun;43(3):143-50 (25 ref.)

Technology ... telemedicine project to monitor renal dialysis patients [news] **Hosp Health Netw** 1997 Apr 20;71(8):21

Pediatric hemodialysis: lessons from the past, ideas for the future. Bunchman TE. **Kidney Int Suppl** 1996 Jan;53:S64-7

Dialysis membranes in the year 2000: performance and biocompatibility. Akizawa T, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:16-9 (20 ref.)

Future prospects: is there a better way? Bonomini V. **Nephrol Dial Transplant** 1995;10 Suppl 10:57-9 (16 ref.)

Stages of future technological developments in haemodialysis. Cheung AK. **Nephrol Dial Transplant** 1996; 11 Suppl 8:52-8 (43 ref.)

Adequacy of hemodialysis 1996 [editorial] Shohat J, et al. **Nephron** 1997;76(1):1-6

The dialysis facility of the future: the financial and social environment. Steinman TI. **Semin Nephrol** 1997 Jul; 17(4):298-305 (24 ref.)

UTILIZATION

Is it worth performing kidney replacement therapy on patients Over 80? [news] Röhrich B, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2412-3

Renal replacement therapy in an era of socioeconomic changes--report from the Polish Registry [news] Rutkowski B, et al. **Nephrol Dial Transplant** 1997 Jun; 12(6):1105-8

Renal transplantation, chronic dialysis, and chronic renal insufficiency in children and adolescents. The 1995 Annual Report of the North American Pediatric Renal Transplant Cooperative Study. Warady BA, et al. **Pediatr Nephrol** 1997 Feb;11(1):49-64

Geographical variation in the referral of patients with chronic end stage renal failure for renal replacement therapy. Boyle PJ, et al. **QJM** 1996 Feb;89(2):151-7

VETERINARY

Short-term hemodialysis treatment in dogs and cats with total uretic obstruction. Mashita T, et al. **Jpn J Vet Res** 1997 Aug;45(2):59–65

Role of hemodialysis in the management of dogs and cats with renal failure. Cowgill LD, et al. **Vet Clin North Am Small Anim Pract** 1996 Nov; 26(6):1347–78 (64 ref.)

HEMODIALYSIS, HOME

Reversal of left-ventricular hypertrophy in uremic patients by treatment with daily hemodialysis (DHD). Buoncristiani U, et al. **Contrib Nephrol** 1996;119:152–6

Supportive versus cognitive-behavioral intervention programs in achieving adjustment to home peritoneal kidney dialysis. Hener T, et al. **J Consult Clin Psychol** 1996 Aug;64(4):731–41

REHABILITATION

Benefits of a multidisciplinary predialysis program in maintaining employment among patients on home dialysis. Rasgon SA, et al. **Adv Perit Dial** 1996;12:132–5

HEMODIALYSIS SOLUTIONS

Correction of hypercalcemia and hypophosphatemia by hemodialysis using a conventional, calcium-containing dialysis solution enriched with phosphorus. Leehey DJ, et al. **Am J Kidney Dis** 1997 Feb;29(2):288–90

Beneficial effect of cold dialysate for the prevention of hemodialysis-induced hypoxia. Hegbrant J, et al. **Blood Purif** 1997;15(1):15–24

Impact of terminal heat sterilization on the quality of peritoneal dialysis solutions. Martis L, et al. **Blood Purif** 1997;15(1):54–60

Satisfactory control of secondary hyperparathyroidism with low-calcium dialysate in patients not receiving vitamin D. Teruel JL, et al. **Miner Electrolyte Metab** 1997;23(1):19–24

Risk/benefit in prophylaxis and treatment of secondary hyperparathyroidism. A comparison of two low calcium peritoneal dialysis fluids. Bro S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:47–9

Removal of lipid A and Pseudomonas aeruginosa endotoxin from dialysis fluids by high-flux polysulfone ultrafilter (dialyzer). Rafiee-Tehrani M, et al. **PDA J Pharm Sci Technol** 1996 Sep-Oct;50(5):306–10

[Personal experience in the preparation of concentrated hemodialysis solutions] Toskić-Radojičić M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:130–2 (Eng. Abstr.) **(Sec)**

ADMINISTRATION & DOSAGE

Dialysate sodium delivery can alter chronic blood pressure management. Flanigan MJ, et al. **Am J Kidney Dis** 1997 Mar;29(3):383–91

Sodium ramping in hemodialysis: a study of beneficial and adverse effects. Sang GL, et al. **Am J Kidney Dis** 1997 May;29(5):669–77

ANALYSIS

Adequacy of dialysis: trace elements in dialysis fluids. D'Haese PC, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:92–7 (34 ref.)

Comparison of high-efficiency and standard haemodialysis providing equal urea clearances by partial and total dialysate quantification. Mactier RA, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1182–6

Detection of peptidoglycan and endotoxin in dialysate, using silkworm larvae plasma and limulus amebocyte lysate methods. Tsuchida K, et al. **Nephron** 1997;75(4):438–43

CHEMISTRY

Treatment of acute methanol intoxication with hemodialysis using an ethanol-enriched, bicarbonate-based dialysate. Chow MT, et al. **Am J Kidney Dis** 1997 Oct;30(4):568–70

Optimization of sodium removal in paired filtration dialysis by single pool sodium and conductivity kinetic models. Di Filippo S, et al. **Blood Purif** 1997;15(1):34–44

How to achieve optimal correction of acidosis in end-stage renal failure patients. Zucchelli P, et al. **Blood Purif** 1995 Nov-Dec;13(6):375–84 (34 ref.)

Iatrogenic hypercalcemia in hemodialysis patients in spite of the use of low dialysate calcium [letter] Goicoechea M, et al. **Clin Nephrol** 1997 Jul;48(1):67–8

What is the appropriate dialysate calcium concentration for the dialysis patient? Ritz E, et al. **Nephrol Dial Transplant** 1996;11 Suppl 3:91–5 (23 ref.)

[Electrochemical regeneration of the dialyzing solution] Eventov VL, et al. **Urol Nefrol (Mosk)** 1997 Mar-Apr; (2):13–6 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Lyphatic absorption in CAPD patients with loss of ultrafiltration capacity. Heimbürger O, et al. **Blood Purif** 1995 Nov-Dec;13(6):327–39

PHARMACOLOGY

Hypercalcaemia, hypermagnesaemia, hyperphosphataemia and hyperaluminaemia in CAPD: improvement in serum biochemistry by reduction in dialysate calcium and magnesium concentrations. Hutchison AJ, et al. **Nephron** 1996;72(1):52–8

[The levels of adenine nucleotides and hypoxanthine in blood of patients on long-term hemodialysis using dialysis fluid containing acetate or bicarbonate] Bułło B, et al. **Przegl Lek** 1997;54(1):3–5 (Eng. Abstr.) **(Pol)**

STANDARDS

New indicators to evaluate bacteriological quality of the dialysis fluid and the associated inflammatory response in ESRD patients. Krautzig S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:87–91 (29 ref.)

THERAPEUTIC USE

Emergency hemodialysis using lactate-buffered dialysate [letter] Guiserix J, et al. **Nephron** 1997;75(1):101–2

HEMODIALYSIS UNITS, HOSPITAL

Consultation-liaison psychiatry to renal medicine: work with an inpatient unit. Rustomjee S, et al. **Aust N Z J Psychiatry** 1996 Apr;30(2):229–37

Impact of dialysis room and reuse strategies on the incidence of hepatitis C virus infection in haemodialysis units. dos Santos JP, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2017–22

Hepatitis G virus infection in a haemodialysis unit: prevalence and clinical implications. Forns X, et al. **Nephrol Dial Transplant** 1997 May;12(5):956–60

Further evidence for nosocomial spread of hepatitis C virus infection in hemodialysis units [letter] Dimković N, et al. **Nephron** 1996;74(2):488

Dialysis unit without hepatitis C virus infection in Slovenia [letter] Seme K, et al. **Nephron** 1996;73(2):322

Risk factors for HCV infection in two haemodialysis units in The Netherlands. Keur I, et al. **Neth J Med** 1997 Mar; 50(3):97–101

The dialysis facility of the future: the financial and social environment. Steinman TI. **Semin Nephrol** 1997 Jul; 17(4):298–305 (24 ref.)

[Occupational dangers to health of nursing staffs in hemodialysis units] Washio M, et al. **Sangyo Ika Daigaku Zasshi** 1996 Sep 1;18(3):239–45 (20 ref.) (Eng. Abstr.) **(Jpn)**

MANPOWER

Noise pollution in an intensive care unit for nephrology and dialysis. Buemi M, et al. **Nephrol Dial Transplant** 1995 Dec; 10(12):2235–9

ORGANIZATION & ADMINISTRATION

Tracking multidisciplinary outcomes in the dialysis patient population. Harding DG. **Adv Ren Replace Ther** 1997 Jan; 4(1):89–91

Hemodialysis in Ibadan: a preliminary report on the first 100 dialysis. Arije A, et al. **Afr J Med Med Sci** 1995 Sep; 24(3):255–9 (7 ref.)

Staff security and work pressure: contrasting patterns of stability and change across five dialysis units. Alleyne S, et al. **Soc Sci Med** 1996 Aug;43(4):525–35

STATISTICS & NUMERICAL DATA

Long term survey of hepatitis C virus infection in hemodialysis units in Fukuoka, Japan. Yamaji K, et al. **J Epidemiol** 1996 Dec;6(4):166–71

HEMODILUTION

Isovolaemic haemodilution with hydroxyethylstarch has no effect on somatosensory evoked potentials in healthy volunteers. Detsch O, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):665–70

The effect of acute normovolemic hemodilution on homologous blood requirements and total estimated red blood cell volume lost. Kahraman S, et al. **Acta Anaesthesiol Scand** 1997 May;41(5):614–7

Nitrous oxide reduces inspired oxygen fraction but does not compromise circulation and oxygenation during hemodilution in pigs. Schou H, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):923–30

Hemodilution significantly decreases tolerance to isoflurane-induced cardiovascular depression. Schou H, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):218–28

Use of a PFC-based oxygen carrier to lower the transfusion trigger in a canine model of hemodilution and surgical blood loss. Batra S, et al. **Adv Exp Med Biol** 1997; 411:377–81

Effects of hemodilution and oxygen breathing on gut oxygenation in anesthetized dogs. Walker TA, et al. **Adv Exp Med Biol** 1997;411:323–9

Hemodilution, central blood volume, and renal responses after an isotonic saline infusion in humans. Johansen LB, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R549–56

Effects of hemodilution on gastric regional perfusion and intramucosal pH. Kleen M, et al. **Am J Physiol** 1996 Nov; 271(5 Pt 2):H1849–55

Effects of a hemoglobin-based oxygen carrier (HBOC-201) on hemodynamics and oxygen transport in patients undergoing preoperative hemodilution for elective abdominal aortic surgery. Kasper SM, et al. **Anesth Analg** 1996 Nov;83(5):921–7

Does normovolemic hemodilution decrease myocardial oxygen consumption despite increased heart work? [letter; comment] Zander R. **Anesth Analg** 1997 Jul;85(1):227–8. Comment on: Anesth Analg 1996 Sep;83(3):451–8.

The effect of dextran infusion on antithrombin III concentrations and on platelet function during minor surgery. Randell T, et al. **Ann Chir Gynaecol** 1996; 85(1):17–21

Decreased whole blood factor IX activity following hemodilution with hemoglobin A-zero in-vitro. Kim MS, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May;25(3):289–95

Influence of low and medium molecular weight hydroxyethyl starch on platelets during a long-term hemodilution in patients with cerebrovascular diseases. Treib J, et al. **Arzneimittelforschung** 1996 Nov;46(11):1064–6

Influence of hemodilution on cefuroxime levels and bacterial contamination of intra- and postoperative processed wound blood during hip replacement. Wollinsky KH, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:191–5

Time course of increased haemodilution in hypotension induced by extradural anaesthesia [see comments] Drobin D, et al. **Br J Anaesth** 1996 Aug;77(2):223–6. Comment in: Br J Anaesth 1997 Jan;78(1):111.

Effect of progressive haemodilution with hydroxyethyl starch, gelatin and albumin on blood coagulation. Egli GA, et al. **Br J Anaesth** 1997 Jun;78(6):684–9

Plasma dilution and the rate of infusion of Ringer's solution. Hahn RG, et al. **Br J Anaesth** 1997 Jul;79(1):64–7

Effects of chronic beta-blockade on compensatory mechanisms during acute isovolaemic haemodilution in patients with coronary artery disease. Spahn DR, et al. **Br J Anaesth** 1997 Apr;78(4):381–5

Normovolaemic haemodilution attenuates cardiac depression induced by sodium bicarbonate in canine metabolic acidosis. Tanaka M, et al. **Br J Anaesth** 1996 Sep; 77(3):408–12

Pulmonary gas exchange capacity is reduced during normovolaemic haemodilution in healthy human subjects. Le Merre C, et al. **Can J Anaesth** 1996 Jul;43(7):672–7

Bovine haemoglobin is more potent than autologous red blood cells in restoring muscular tissue oxygenation after profound isovolaemic haemodilution in dogs [see comments] Standl T, et al. **Can J Anaesth** 1996 Jul; 43(7):714–23. Comment in: Can J Anaesth 1996 Jul;43(7):647–52.

Effects of preoperative intentional hemodilution on the extravasation rate of albumin and fluid. Payen JF, et al. **Crit Care Med** 1997 Feb;25(2):243–8

Volume replacement with gelatin or hydroxyethylstarch solutions does not impair somatosensory evoked potential monitoring: a haemodilution study in conscious volunteers. Detsch O, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):599–605

Acute haemodilution and prostaglandin E1-induced hypotension: effects on the coagulation-fibrinolysis system. Fukusaki M, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):443–9

The effect of blood transfusion and haemodilution on cerebral oxygenation and haemodynamics in newborn infants investigated by near infrared spectrophotometry. Liem KD, et al. **Eur J Pediatr** 1997 Apr;156(4):305–10

Pathophysiological effects of hemodilution in chronic mountain sickness in rats. Du HK, et al. **J Appl Physiol** 1996 Feb;80(2):574–82

Limited intentional normovolemic hemodilution: ST-segment changes and use of homologous blood products in patients with left main coronary artery stenosis. Herregods L, et al. **J Cardiothorac Vasc Anesth** 1997 Feb; 11(1):18–23

Effects of hemodilution during controlled hypotension of hepatic, renal, and pancreatic function in humans. Fukusaki M, et al. **J Clin Anesth** 1996 Nov;8(7):545–50

Catecholamine and renin-angiotensin response during controlled hypotension induced by prostaglandin E1 combined with hemodilution during isoflurane anesthesia. Fukusaki M, et al. **J Clin Anesth** 1997 Jun;9(4):321–7

Cerebral oxygen transport and metabolism during graded isovolemic hemodilution in experimental global ischemia. Tu YK, et al. **J Neurol Sci** 1997 Sep 10;150(2):115–22

Effect of delayed albumin hemodilution on infarction volume and brain edema after transient middle cerebral artery occlusion in rats. Belayev L, et al. **J Neurosurg** 1997 Oct; 87(4):595–601

Hypervolemic-hemodilution during cerebral ischemia in rats: effect of diaspirin cross-linked hemoglobin (DCLHb) on neurologic outcome and infarct volume. Cole DJ, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):44–50

Influence of moderate haemodilution with fluosol or normal saline on carbaryl disposition in Sprague-Dawley rats. Shrewsbury RP, et al. **J Pharm Pharmacol** 1997 Mar; 49(3):236–40

Emergency treatment of polycythaemia in a renal transplant recipient: role of intraoperative phlebotomy [letter] Joshi MK, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2377–8

Comparison of cerebral blood flow measured by laser-Doppler flowmetry and hydrogen clearance in cats after cerebral insult and hypervolemic hemodilution. Kramer MS, et al. **Neurosurgery** 1996 Feb;38(2):355–61

Changes in plasma ionized calcium and magnesium in blood donors after donation of 450 mL blood. Effects of

HEMODILUTION

hemodilution and Donnan equilibrium. Fogh-Andersen N, et al. **Scand J Clin Lab Invest Suppl** 1996;224:245-50

Epoetin alfa: new directions in orthopedic surgery. Beris P. **Semin Hematol** 1996 Apr;33(2 Suppl 2):60-2; discussion 63 (7 ref.)

Epoetin alfa plus autologous blood donation and normovolemic hemodilution in patients scheduled for orthopedic or vascular surgery. Tryba M. **Semin Hematol** 1996 Apr;33(2 Suppl 2):34-6; discussion 37-8

Hemodynamic effects of isovolemic hemodilution during descending thoracic aortic cross clamping and lower torso reperfusion. Poli de Figueiredo LF, et al. **Surgery** 1997 Jul;122(1):32-8

Is acute normovolemic hemodilution cost-effective? [letter; comment] Singbartl G, et al. **Transfusion** 1996 Sep; 36(9):849-50. Comment on: Transfusion 1995 Jul;35(7):559-65.

Hemodilution, what is right? Koopman-van Gemert AW. **Transplant Proc** 1996 Oct;28(5):2934-6 (14 ref.)

Influence of preload, afterload, and contractility on myocardial ultrasonic tissue characterization with integrated backscatter. Naito J, et al. **Ultrasound Med Biol** 1996;22(3):305-12

Hemodilution in clinical surgery: state of the art 1996. Kreimeier U, et al. **World J Surg** 1996 Nov-Dec; 20(9):1208-17 (95 ref.)

[Contributions and prospects of hemoglobin derivatives] Remy B, et al. **Schweiz Med Wochenschr** 1997 Jun 21; 127(25):1088-96 (57 ref.) (Eng. Abstr.) **(Fre)**

[Assuring normovolemia in extreme hemodilution] Adams HA. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct;31(8):494-6 (20 ref.) **(Ger)**

[Effect of hydroxyethyl starch solution on kidney function in surgical intensive care patients] Dehne MG, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):348-54 (Eng. Abstr.) **(Ger)**

[Is hemofiltration following acute kidney failure in elderly cardiovascular surgery patients justified?] Grünenfelder J, et al. **Schweiz Med Wochenschr** 1997 Jan 18;127(3):53-9 (Eng. Abstr.) **(Ger)**

[Gelatin for volume replacement in hemodilution: hemodynamic study] Falchi S, et al. **Minerva Anestesiol** 1995 Jul-Aug;61(7-8):299-305 (Eng. Abstr.) **(Ita)**

[Plasmapheresis and intraoperative hemodilution. Comparison of 2 methods] Sonzogni V, et al. **Minerva Anestesiol** 1995 Jul-Aug;61(7-8):293-7 (Eng. Abstr.) **(Ita)**

[Effect of hemodilution with dextran and albumin on activated clotting time (ACT)] Inoue M, et al. **Masui** 1997 Jun;46(6):809-12 (Eng. Abstr.) **(Jpn)**

[Intraoperative ST-T depression during extreme hemodilution] Sugimoto M, et al. **Masui** 1996 Aug; 45(8):1005-8 (Eng. Abstr.) **(Jpn)**

[Preoperative autotransfusion and hemodilution and its value in reconstructive vascular surgery] Pukacki F, et al. **Wiad Lek** 1996;49(1-6):26-35 (Eng. Abstr.) **(Pol)**

ADVERSE EFFECTS

Measurement of gastrointestinal intramucosal pH is a poor guide to tolerable levels of anemia during isovolemic hemodilution in a canine model of coronary stenosis. Layland M, et al. **Arch Surg** 1997 May;132(5):547-52

Haemodilution induces a hypercoagulable state [letter; comment] Entholzner EK, et al. **Br J Anaesth** 1996 Dec; 77(6):809. Comment on: Br J Anaesth 1996 Mar;76(3):412-4.

Possible mechanism to explain increased coagulability of blood after haemodilution [letter; comment] Fletcher JE, et al. **Br J Anaesth** 1997 Apr;78(4):478. Comment on: Br J Anaesth 1996 Mar;76(3):412-4. Comment on: Br J Anaesth 1996 Jul;77(1):132.

Haemodilution induces a hypercoagulable state [letter] Mardel SN, et al. **Br J Anaesth** 1996 Nov;77(5):700-1

Combined effects of prolonged prostaglandin E1-induced hypotension and haemodilution on human hepatic function. Fukusaki M, et al. **Eur J Anaesthesiol** 1997 Mar; 14(2):157-63

Dilutional hypocalcaemia from urological irrigating fluids. Hahn RG. **Int Urol Nephrol** 1997;29(2):201-6

Influence of severe hemodilution on brain function and brain oxidative metabolism in the cat. Bauer R, et al. **Intensive Care Med** 1996 Jan;22(1):47-51

Normal saline in microsurgery may not be all it seems [letter] Ruttmann TG, et al. **Plast Reconstr Surg** 1997 Apr; 99(4):1196-7

ECONOMICS

Intraoperative hemodilution is more cost-effective than preoperative autologous donation for patients undergoing procedures associated with a low risk for transfusion. Rosenblatt MA, et al. **J Clin Anesth** 1997 Feb;9(1):26-9

METHODS

Preoperative acute hypervolemic hemodilution with hydroxyethylstarch: an alternative to acute normovolemic hemodilution? Mielke LL, et al. **Anesth Analg** 1997 Jan; 84(1):26-30

Alteration of cerebral microcirculation by hemodilution with hemosome in awake rats. Wang YC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan; 24(1):35-42

A randomised prospective study of outpatient haemodilution for central retinal vein obstruction. Luckie AP, et al. **Aust N Z J Ophthalmol** 1996 Aug;24(3):223-32

Guidelines for autologous transfusion. II. Perioperative haemodilution and cell salvage. British Committee for Standards in Haematology Blood Transfusion Task Force. Autologous Transfusion Working Party. Napier JA, et al. **Br J Anaesth** 1997 Jun;78(6):768-71

Elective surgery in an anaemic Jehovah's Witness. Cooper R, et al. **Br J Hosp Med** 1996 Jul 10-Aug 20;56(2-3):107-8

Isovolemic hemodilution with purified and polymerized bovine hemoglobin in a rabbit model of focal cerebral ischemia. Chu D, et al. **Chin J Physiol** 1997 Jun 30; 40(2):63-9

Acute decrease in plasma potassium concentration following intravenous mannitol as a result of hemodilution in stable chronic hemodialysis patients [letter] Swan AM, et al. **Clin Nephrol** 1997 Apr;47(4):276-7

Hemodilution with other blood reinfusion techniques in total hip arthroplasty. Oishi CS, et al. **Clin Orthop** 1997 Jun; (339):132-9

Isovolemic hemodilution increases retinal tissue oxygen tension. Neely KA, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Nov; 234(11):688-94

Higher hematocrit improves cerebral outcome after deep hypothermic circulatory arrest. Shin'oka T, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1610-20; discussion 1620-1

Global tissue oxygenation during normovolaemic haemodilution in young children. Aly Hassan A, et al. **Paediatr Anaesth** 1997;7(3):197-204

Observations on isovolemic hemodilution in acute ischemic stroke. Comes L, et al. **Rom J Intern Med** 1996 Jan-Jun; 34(1-2):43-7

Improving the outcome of acute normovolemic hemodilution with epoetin alfa. Monk T. **Semin Hematol** 1997 Apr;33(2 Suppl 2):48; discussion 49-50

Epoetin alfa plus autologous blood donation and normovolemic hemodilution in patients scheduled for orthopedic or vascular surgery. Tryba M. **Semin Hematol** 1997 Apr;33(2 Suppl 2):34-6; discussion 37-8

Mathematical considerations in the practice of acute normovolemic hemodilution. Kick O, et al. **Transfusion** 1997 Feb;37(2):141-3

[Do corticotherapy and hemodilution decrease postoperative inflammation after maxillofacial surgery?] Peillon D, et al. **Ann Fr Anesth Reanim** 1996;15(2):157-61 (Eng. Abstr.) **(Fre)**

[Normovolemic hemodilution in central retinal vein thrombosis. Personal experience apropos of 14 cases] Locht B, et al. **Bull Soc Belge Ophtalmol** 1995;259:89-92 (Eng. Abstr.) **(Fre)**

[Preoperative normovolemic hemodilution] el Hairy A, et al. **Cah Anesthesiol** 1996;44(4):383-8 **(Fre)**

[Albumin as volume replacement: pro] Boldt J. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Sep; 31(7):427-8 **(Ger)**

[Changes in coagulation physiology and rheology after preoperative normovolemic hemodilution] Hensel M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):481-7 (Eng. Abstr.) **(Ger)**

[Acute effects of complete blood exchange with ultra-purified hemoglobin solution or hydroxyethyl starch on liver and kidney in the animal model] Standl T, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):354-61 (Eng. Abstr.) **(Ger)**

[Albumin as volume replacement: contra] von Bormann B. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Sep; 31(7):429-31 **(Ger)**

[Autologous blood transfusion: results with routine use of autologous blood transfusion, normovolemic hemodilution and postoperative retransfusion of drainage blood salvaged with the Solcotrans system] Lagana S, et al. **Swiss Surg** 1996;2(6):244-51 (Eng. Abstr.) **(Ger)**

[Hemodilution therapy with neuron metabolism specific therapy in ischemic stroke--encouraging results of a comparative study] Koppi S, et al. **Wien Med Wochenschr** 1996;146(3):41-8 (Eng. Abstr.) **(Ger)**

[Isovolemic hemodilution in coronary heart disease--clinical and hemodynamic effects] Neubaur TE, et al. **Z Kardiol** 1996 Jan;85(1):1-5 (Eng. Abstr.) **(Ger)**

[Prolonged normovolemic hemodilution in therapy of patients with obliterating endarteritis of lower limb vessels] Lipnitskii EM, et al. **Klin Med (Mosk)** 1996;74(7):24-5 (Eng. Abstr.) **(Rus)**

[Experience in using prolonged normovolemic hemodilution in patients with diabetic angiopathies of the vessels of the lower extremities] Lipnitskiĭ EM, et al. **Vestn Khir Im I I Grek** 1996;155(5):96-8 (Eng. Abstr.) **(Rus)**

STANDARDS

Hypertensive, hypervolemic, hemodilutional therapy for aneurysmal subarachnoid hemorrhage. Is it efficacious? No. Oropello JM, et al. **Crit Care Clin** 1996 Jul;12(3):709-30 (79 ref.)

Hypertensive, hypervolemic, hemodilutional therapy for aneurysmal subarachnoid hemorrhage. Is it efficacious? Yes. Ullman JS, et al. **Crit Care Clin** 1996 Jul;12(3):697-707 (70 ref.)

Efficacy of autotransfusion in spine surgery: comparison of autotransfusion alone and with hemodilution and apheresis. Blais RE, et al. **Spine** 1996 Dec 1;21(23):2795-800

Royal College of Physicians, Edinburgh: final consensus statement. Consensus Conference on Autologous Transfusion, 4-6 October, 1995. Thomas MJ. **Vox Sang** 1996;70(3):183-4

UTILIZATION

Mathematical considerations in the practice of acute normovolemic hemodilution. Kick O, et al. **Transfusion** 1997 Feb;37(2):141-3

HEMODYNAMICS

Hemodynamic, sympathetic and angiotensin II responses to PEEP ventilation before and during administration of isoflurane. Aneman A, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):41-8

Beneficial effects of pre-treatment with vitamin A on cardiac and pulmonary functions in endotoxaemic pigs. Eriksson M, et al. **Acta Anaesthesiol Scand** 1996 May;40(5):538-48

Effects of thoracic vs. lumbar epidural anaesthesia on systemic haemodynamics and coronary circulation in sevoflurane anaesthetized dogs. Hirabayashi Y, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1127-31

Central cardiovascular and oxygen variables during haemorrhage in the pig. Krantz T, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):719-24

The efficacy of clonidine for reducing perioperative haemodynamic changes and volatile anaesthetic requirements in children. Nishina K, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):746-51

Low cardiac output abolishes cardiovascular responses to infra-renal aortic cross-clamping in the pig. Seeman-Lodding H, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):232-8

Hemodynamic measures in prediction of pre-eclampsia. Ekholm E. **Acta Obstet Gynecol Scand Suppl** 1997; 164:101-3

Effects of additional premedication on romifidine and ketamine anaesthesia in horses. Marntell S, et al. **Acta Vet Scand** 1996;37(3):315-25

Applications of NIRS for measurements of tissue oxygenation and haemodynamics during surgery. Thorniley MS, et al. **Adv Exp Med Biol** 1997;411:481-93

Prolonged hemodynamic effects of intermittent, brief chemoreceptor stimulation in humans. Trzebski A, et al. **Adv Exp Med Biol** 1996;410:421-9

Comparison between conventional hemodynamic monitoring and polarographic tissue pO2-monitoring of the liver in early septicemia of the pig. Wagner K, et al. **Adv Exp Med Biol** 1996;388:85-92

Pathogenesis and innovative treatment of septic shock. Ognibene FP. **Adv Intern Med** 1997;42:313-38 (89 ref.)

Hemodynamic alterations in alcohol-related transitory hypertension. King AC, et al. **Alcohol** 1996 Jul-Aug; 13(4):387-93

Evaluation of the significance of a transvalvular catheter on aortic valve gradient in aortic stenosis: a direct hemodynamic and Doppler echocardiographic study. Adele C, et al. **Am J Cardiol** 1997 Feb 15;79(4):513-6

Usefulness of hemodynamic changes during adenosine infusion in predicting the diagnostic accuracy of adenosine technetium-99m sestamibi single-photon emission computed tomography (SPECT). Amanullah AM, et al. **Am J Cardiol** 1997 May 15;79(10):1319-22

Hemodynamic assessment of patients with low-flow, low-gradient valvular aortic stenosis. Blitz LR, et al. **Am J Cardiol** 1996 Sep 15;78(6):657-61

Circulating interleukin-6 in severe heart failure. MacGowan GA, et al. **Am J Cardiol** 1997 Apr 15;79(8):1128-31

Effects of short-term exercise training and activity restriction on functional capacity in patients with severe chronic congestive heart failure. Meyer K, et al. **Am J Cardiol** 1996 Nov 1;78(9):1017-22

Tailored stent treatment for severe supravalvular aortic stenosis. Suárez de Lezo J, et al. **Am J Cardiol** 1996 Nov 1;78(9):1081-3

Usefulness of dobutamine echocardiography in the hemodynamic assessment of mechanical prostheses in the aortic valve position. Zabalgoitia M, et al. **Am J Cardiol** 1997 Aug 15;80(4):523-6

Effect of backrest position on hemodynamic and right ventricular measurements in critically ill adults. Wilson AE, et al. **Am J Crit Care** 1996 Jul;5(4):264-70

Resuscitation of the critically ill in the ED: responses of blood pressure, heart rate, shock index, central venous oxygen saturation, and lactate. Rady MY, et al. **Am J Emerg Med** 1996 Mar;14(2):218-25

Hemodynamics in white coat hypertension compared to ambulatory hypertension and normotension. Soma J, et al. **Am J Hypertens** 1996 Nov;9(11):1090-8

Exercise training by individuals with predialysis renal failure: cardiorespiratory endurance, hypertension, and renal function. Boyce ML, et al. **Am J Kidney Dis** 1997 Aug; 30(2):180-92

Cardiovascular effects of recombinant human erythropoietin in predialysis patients. Portolés J, et al. **Am J Kidney Dis** 1997 Apr;29(4):541-8

Renal and systemic hemodynamics, in falciparum malaria. Sitprija V, et al. **Am J Nephrol** 1996;16(6):513–9

Central hemodynamic changes associated with pregnancy in a long-term cardiac transplant recipient. Kim KM, et al. **Am J Obstet Gynecol** 1996 May;174(5):1651–3

Heat stress protects aged hypertrophied and nonhypertrophied rat hearts against ischemic damage. Cornelussen RN, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1333–41

Stimulation of dog RVLM and A5 area changes sympathetic outflow to vascular beds without effect on the heart. Dickerson LW, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R821–39

Enhanced constrictor responses of skeletal muscle arterioles during chronic myocardial infarction. Didion SP, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1502–8

Time course of the human pulmonary vascular response to 8 hours of isocapnic hypoxia. Dorrington KL, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1126–34

Myogenic contribution to agonist-induced renal vasoconstriction during normoxia and hypoxia. Eichinger MR, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1945–51

SR Ca(2+)-ATPase activity and expression in ventricular myocardium of dogs with heart failure. Gupta RC, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H12–8

Effect of repetitive stunning on myocardial metabolism in pig hearts. Hacker TA, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1395–402

Cardiovascular response to stress: baroreflex resetting and hemodynamics. Hatton DC, et al. **Am J Physiol** 1997 May; 272(5 Pt 2):R1588–94

Correlation between myocardial contractile force and cytosolic inorganic phosphate during early ischemia. He MX, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1333–41

In vivo aortic wall characteristics at the early stage of atherosclerosis in rabbits. Hironaka K, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1142–7

Systemic hemodynamic determinants of blood pressure in women: age, physical activity, and hormone replacement. Hunt BE, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H777–85

Baroreflex control of sinus node during dynamic exercise in humans: effects of central command and muscle reflexes. Iellamo F, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1157–64

Effect of reperfusion on ventricular mass, topography, and function during healing of anterior infarction. Jugdutt BI. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1205–11

Differentiated norepinephrine spillover in human skeletal muscle. Karlsson AK, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R16–21

Modeling blood flow in vessels with changeable caliber for physiology and biophysics courses. Kozlova EK, et al. **Am J Physiol** 1997 Jun;272(6 Pt 3):S26–30

Measurement of intraventricular pressure and cardiac performance in the intact closed-chest anesthetized mouse. Lorenz JN, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1137–46

Roles of carotid baroreceptor and cardiac afferents in hemodynamic responses to acute central hypovolemia. Ludbrook J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1538–48

Role of adenosine receptors in late preconditioning against myocardial stunning in conscious rabbits. Maldonado C, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1324–32

Smoking impairs baroreflex sensitivity in humans. Mancia G, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1555–60

Chronic stress induces sensitization in sympathoadrenal responses to stress in borderline hypertensive rats. Mansi JA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R813–20

Effects of pregnancy and progesterone metabolites on arterial baroreflex in conscious rats. Masilamani S, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R924–34

Oxygen-derived free radicals contribute to neural stunning in the canine heart. Miura H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1569–75

K(ATP)-channel inhibition improves hemodynamics and cellular energetics in hemorrhagic shock. Salzman AL, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H688–94

Facilitation of postischemic reperfusion with alpha-PBN: assessment using NMR and Doppler flow techniques. Schulz JB, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1986–95

Low-frequency ultradian insulin rhythms are coupled to cardiovascular, autonomic, and neuroendocrine rhythms. Shannahoff-Khalsa DS, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R962–8

Sympathetic and vascular responses to head-down neck flexion in humans. Shortt TL, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1780–4

Hemodynamic changes in early pregnancy in chronically instrumented, conscious rats. Slangen BF, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1779–84

Hemodynamic changes in pseudopregnancy in chronically instrumented conscious rats. Slangen BF, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H695–700

Aortic distensibility and compliance in conscious pregnant rats. Slangen BF, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1260–5

A comprehensive model for right-left heart interaction under the influence of pericardium and baroreflex. Sun Y, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1499–515

Left ventricular spherical dilation and regional contractile dysfunction in dogs with heart failure. Suzuki M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1058–67

Impact of exercise training on ventricular properties in a canine model of congestive heart failure. Todaka K, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1382–90

Regional blood flow in Dahl-Iwai salt-sensitive rats and the effects of dietary L-arginine supplementation. Tomohiro A, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1013–9

Mechanism for changes in vasopressin during acute exposure at 3 atm abs air. Torii R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R259–64

Endothelin causes portal and pulmonary hypertension in porcine endotoxemic shock. Yamamoto S, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1239–49

Significance of NO in hemorrhage-induced hemodynamic alterations, organ injury, and mortality in rats. Yao YM, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1616–23

Developmental changes in flow-wave propagation velocity in embryonic chick vascular system. Yoshigi M, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1523–9

Efficacy of cardiopulmonary resuscitation using intratracheal insufflation. Brochard L, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1323–9

Ventilatory and hemodynamic effects of continuous positive airway pressure in left heart failure. Lenique F, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):500–5

Stab wounds to the back and flank in the hemodynamically stable patient: a decision algorithm based on contrast-enhanced computed tomography with colonic opacification. Kirton OC, et al. **Am J Surg** 1997 Mar; 173(3):189–93

Cardiorespiratory and metabolic effects of walking, standing, and standing with a splint during the recuperative period from maximal exercise in horses. Hubbell JA, et al. **Am J Vet Res** 1997 Sep;58(9):1003–9

Alterations in colonic arterial and venous plasma neuropeptide concentrations in horses during low-flow ischemia and reperfusion of the large colon. Moore RM, et al. **Am J Vet Res** 1996 Aug;57(8):1200–5

Effect of chronic and acute thyroid hormone reduction on perioperative outcome. Bennett-Guerrero E, et al. **Anesth Analg** 1997 Jul;85(1):30–6 (68 ref.)

Response to clamping of the inferior vena cava as a factor for predicting postreperfusion syndrome during liver transplantation. Garutti Martinez I, et al. **Anesth Analg** 1997 Feb;84(2):254–9

Hemodynamic effects, myocardial ischemia, and timing of tracheal extubation with propofol-based anesthesia for cardiac surgery [see comments] Myles PS, et al. **Anesth Analg** 1997 Jan;84(1):12–9. Comment in: Anesth Analg 1997 Jul;85(1):228–9.

Hemodynamic response and change in organ blood volume during spinal anesthesia in elderly men with cardiac disease. Rooke GA, et al. **Anesth Analg** 1997 Jul;85(1):99–105

Hemodynamic response to anesthesia and pneumoperitoneum in orthotopic cardiac transplant recipients [see comments] Joshi GP, et al. **Anesthesiology** 1996 Oct;85(4):929–33. Comment in: Anesthesiology 1997 Jun;86(6):1425–7.

Endovascular presence of Chlamydia pneumoniae in patients with hemodynamically effective carotid artery stenosis. Maass M, et al. **Angiology** 1997 Aug;48(8):699–706

Hemodynamics, endothelial gene expression, and atherogenesis. Gimbrone MA Jr, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:1–10; discussion 10–1 (60 ref.)

Hemodynamic changes during displacement of the beating heart by the Utrecht Octopus method. Gründeman PF, et al. **Ann Thorac Surg** 1997 Jun;63(6 Suppl):S88–92

Impaired blood flow response following pressure load in diabetic patients with cardiac autonomic neuropathy. van Marum RJ, et al. **Arch Phys Med Rehabil** 1997 Sep; 78(9):1003–6

Reduced resuscitation fluid volume for second-degree burns with delayed initiation of ascorbic acid therapy. Tanaka H, et al. **Arch Surg** 1997 Feb;132(2):158–61

Endothelial, haemostatic and haemorheological modifications in migraineurs. Bianchi A, et al. **Artery** 1996;22(2):93–100

Effect of pulsatility and hemodynamic power on recovery of renal function. Konishi H, et al. **ASAIO J** 1996 Sep–Oct; 42(5):M720–3

Access flow measured during hemodialysis. Sands J, et al. **ASAIO J** 1996 Sep–Oct;42(5):M530–2

Hemodialysis access flow measurement. Comparison of ultrasound dilution and duplex ultrasonography. Sands J, et al. **ASAIO J** 1996 Sep–Oct;42(5):M899–901

Effects of head down tilt on hemodynamics, fluid volumes, and plasma Na-K pump inhibitor in rats. Pamnani MB, et al. **Aviat Space Environ Med** 1996 Oct;67(10):928–34

Effect of aortic impedance on preload-afterload mismatch in canine hearts in situ. Yano M, et al. **Basic Res Cardiol** 1997 Apr;92(2):115–22

Changes in cerebral hemodynamics and oxygenation during hypothermic cardiopulmonary bypass in neonates and infants. Van Bel F, et al. **Biol Neonate** 1996;70(3):141–54

Model studies of leukocyte-endothelium-blood interactions. II. Hemodynamic impact of leukocytes adherent to the wall of post-capillary vessels. Chapman GB, et al. **Biorheology** 1997 Jan-Feb;34(1):37–56

Effects of intermittent pneumatic compression on venous haemodynamics and fibrinolytic activity. Christen Y, et al. **Blood Coagul Fibrinolysis** 1997 Apr;8(3):185–90

Hemodynamic effects of plasma exchange in septic patients: preliminary report. Berlot G, et al. **Blood Purif** 1997; 15(1):45–53

Hemodynamic instability during different forms of dialysis therapy: do we really know why? [editorial] Henderson LW. **Blood Purif** 1996;14(6):395–404 (37 ref.)

Hemodynamic stability during different forms of dialysis therapy: a pathogenetic analysis. Hendrikus W, et al. **Blood Purif** 1996;14(6):405–20 (118 ref.)

Haemodynamic and metabolic response to endovascular repair of infra-renal aortic aneurysms. Baxendale BR, et al. **Br J Anaesth** 1996 Nov;77(5):581–5

Assessment of cardiovascular changes during laparoscopic hernia repair using oesophageal Doppler. Haxby EJ, et al. **Br J Anaesth** 1997 May;78(5):515–9

Haemodynamic and neuroendocrine responses after pneumoperitoneum during cholecystectomy [letter; comment] Lentschener C, et al. **Br J Anaesth** 1996 Dec; 77(6):810. Comment on: Br J Anaesth 1996 May;76(5):640–4.

Haemodynamic consequences of embolizing aneurysms: a transcranial Doppler study. Rowe JG, et al. **Br J Neurosurg** 1995;9(6):749–57

Oxygen delivery as a factor in the development of fatal postoperative complications after oesophagectomy. Kusano C, et al. **Br J Surg** 1997 Feb;84(2):252–7

Regional assessment of tissue oxygenation and the temporal evolution of hemodynamic parameters and water diffusion during acute focal ischemia in rat brain. Dijkhuizen RM, et al. **Brain Res** 1997 Mar 7;750(1–2):161–70

Haemodynamic effects of mechanical peritoneal retraction during laparoscopic cholecystectomy. Couture P, et al. **Can J Anaesth** 1997 May;44(5 Pt 1):467–72

Haemodynamic and ventilatory changes during laparoscopic cholecystectomy in elderly ASA III patients. Dhoste K, et al. **Can J Anaesth** 1996 Aug;43(8):783–8

Simultaneous evaluation of the Doppler-derived transmitral flow velocity waveform and left ventricular isovolumic relaxation time in patients with coronary artery disease. Hashimoto T, et al. **Cardiology** 1996 Nov-Dec;87(6):560–5

Immediate hemodynamic effects of thrombolytic therapy on the ischemic myocardium. Quigley RL, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):325–30

Evaluation of non-invasive techniques to assess vasoconstriction in healthy volunteers using methoxamine as a probe drug. Dixon RM, et al. **Cephalalgia** 1996 Nov; 16(7):507–17

Brain death alters cardiopulmonary hemodynamics and impairs right ventricular power reserve against an elevation of pulmonary vascular resistance. Bittner HB, et al. **Chest** 1997 Mar;111(3):706–11

Cardiac resuscitation. The search for hemodynamically more effective methods. Gazmuri RJ, et al. **Chest** 1997 Mar; 111(3):712–23 (143 ref.)

Hyperdynamic circulation in prehepatic portal hypertension: role of tumor necrosis factor-alpha. Chu CJ, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar; 59(3):145–50

Hemodynamic exercise testing. A valuable tool in the selection of cardiac transplantation candidates. Chomsky DB, et al. **Circulation** 1996 Dec 15;94(12):3176–83

Relations of left ventricular mass to demographic and hemodynamic variables in American Indians: the Strong Heart Study. Devereux RB, et al. **Circulation** 1997 Sep 2;96(5):1416–23

Short-term hemodynamic effects of immunoadsorption in dilated cardiomyopathy [see comments] Dörffel WV, et al. **Circulation** 1997 Apr 15;95(8):1994–7. Comment in: Circulation 1997 Apr 15;95(8):1979–80.

Ischemic, hemodynamic, and neurohormonal responses to mental and exercise stress. Experience from the Psychophysiological Investigations of Myocardial Ischemia Study (PIMI). Goldberg AD, et al. **Circulation** 1996 Nov 15;94(10):2402–9

Right ventricular performance and contractile reserve in patients with severe heart failure. Assessment by pressure-area relations and association with outcome. Gorcsan J 3rd, et al. **Circulation** 1996 Dec 15;94(12):3190–7

Angina pectoris in patients with aortic stenosis and normal coronary arteries. Mechanisms and pathophysiological concepts [see comments] Julius BK, et al. **Circulation** 1997 Feb 18;95(4):892–8. Comment in: Circulation 1997 Feb 18;95(4):790–2.

Presence of a critical coronary artery stenosis does not abolish the protective effect of ischemic preconditioning. Kapadia SJ, et al. **Circulation** 1997 Mar 4;95(5):1286–92

Influence of aortic impedance on the development of pressure-overload left ventricular hypertrophy in rats. Kobayashi S, et al. **Circulation** 1996 Dec 15;94(12):3362–8

Association between thrombolytic treatment and the prognosis of hemodynamically stable patients with major pulmonary embolism: results of a multicenter registry [see comments] Konstantinides S, et al. **Circulation** 1997 Aug 5;96(3):882–8. Comment in: Circulation 1997 Aug 5;96(3):716–8.

Vasopressin deficiency contributes to the vasodilation of septic shock [see comments] Landry DW, et al. **Circulation** 1997 Mar 4;95(5):1122–5. Comment in: Circulation 1997 Mar 4;95(5):1108–10.

Hemodynamic effects of chronic prenatal ventricular pacing for the treatment of complete atrioventricular block. Liddicoat JR, et al. **Circulation** 1997 Aug 5;96(3):1025–30

HEMODYNAMICS

Coupling of hemodynamic measurements with oxygen consumption during exercise does not improve risk stratification in patients with heart failure. Mancini D, et al. **Circulation** 1996 Nov 15;94(10):2492–6

Septal function during left ventricular unloading. Moon MR, et al. **Circulation** 1997 Mar 4;95(5):1320–7

Loading manipulations improve the prognostic value of Doppler evaluation of mitral flow in patients with chronic heart failure. Pozzoli M, et al. **Circulation** 1997 Mar 4; 95(5):1222–30

Post–cardiopulmonary bypass pulmonary hypertension in lambs with increased pulmonary blood flow. A role for endothelin 1. Reddy VM, et al. **Circulation** 1997 Feb 18; 95(4):1054–61

Attenuated cardiac sympathetic responsiveness during dynamic exercise in patients with heart failure. Rundqvist B, et al. **Circulation** 1997 Feb 18;95(4):940–5

Coupling of hemodynamic measurements with oxygen during exercise does not improve risk stratification in patients with heart failure [letter] Wilson JR, et al. **Circulation** 1997 Sep 16;96(6):2095–7

Effects of aging on left ventricular relaxation in humans. Analysis of left ventricular isovolumic pressure decay. Yamakado T, et al. **Circulation** 1997 Feb 18;95(4):917–23

Thomas Young. Fye WB. **Clin Cardiol** 1997 Jan;20(1):87–8

Cardiovascular and hormonal responses to a meal in hypertrophic cardiomyopathy: a comparison of patients with and without postprandial exacerbation of symptoms. Gilligan DM, et al. **Clin Cardiol** 1996 Feb;19(2):129–35

Evaluation of hemodynamics, vascular reactivity and baroreceptor compensation in the insulin resistant Zucker obese rats. Pamidimukkala J, et al. **Clin Exp Hypertens** 1996 Nov;18(8):1089–104

Clinical and haemodynamic sequelae of deep venous thrombosis: retrospective evaluation after 7–13 years. Janssen MC, et al. **Clin Sci (Colch)** 1997 Jul;93(1):7–12

The effect of transcutaneous electrical nerve stimulation on coronary and systemic haemodynamics in syndrome X. Sanderson JE, et al. **Coron Artery Dis** 1996 Jul;7(7):547–52

Monitoring of cerebral hemodynamics with jugular bulb catheters. Feldman Z, et al. **Crit Care Clin** 1997 Jan; 13(1):51–77 (76 ref.)

Hemodynamics and positive end–expiratory pressure in critically ill patients. Klinger JR. **Crit Care Clin** 1996 Oct; 12(4):841–64 (68 ref.)

Myocardial mechanics and energetics during continuous positive airway pressure in sedated pigs. Huberfeld SI, et al. **Crit Care Med** 1996 Dec;24(12):2027–34

Effect of hemocarboperfusion on organ blood flow and survival in porcine endotoxic shock. Odnopozov VA, et al. **Crit Care Med** 1996 Dec;24(12):2021–6

Central and regional hemodynamics during acute hypovolemia and volume substitution in volunteers. Riddez L, et al. **Crit Care Med** 1997 Apr;25(4):635–40

Rapid monitoring of gastrointestinal intraluminal PCO2 as an end–organ perfusion index [editorial; comment] Tao W, et al. **Crit Care Med** 1997 Sep;25(9):1458–9 (28 ref.). Comment on: Crit Care Med 1997 Sep;25(9):1575–8.

Neonatal hemodynamic responses to extreme ranges of controlled graded hypoxia. Torrance SM, et al. **Crit Care Med** 1996 Nov;24(11):1886–92

Anemia worsens hyperdynamic circulation of patients with cirrhosis and portal hypertension. Cirera I, et al. **Dig Dis Sci** 1997 Aug;42(8):1697–702

Hemodynamic responses to cold stress in blacks: effect of application site. Duey WJ, et al. **Ethn Dis** 1996 Autumn; 6(3–4):272–8

Repolarization abnormalities with prolonged hyperventilation in apparently healthy subjects: incidence, mechanisms and affecting factors. Alexopoulos D, et al. **Eur Heart J** 1996 Sep;17(9):1432–7

Non–invasive assessment of cardiac physiology by tissue Doppler echocardiography. A comparison with invasive haemodynamics. Zamorano J, et al. **Eur Heart J** 1997 Feb; 18(2):330–9

Haemodynamic monitoring during alkalinized lignocaine epidural block: a comparison with subarachnoid anaesthesia. Casati A, et al. **Eur J Anaesthesiol** 1997 May; 14(3):300–6

Haemodynamic effects of pneumoperitoneum in elderly patients with an increased cardiac risk. Zollinger A, et al. **Eur J Anaesthesiol** 1997 May;14(3):266–75

Exercise training mode affects the hemodynamic responses to lower body negative pressure in women. Franke WD, et al. **Eur J Appl Physiol** 1996;73(1–2):169–74

Effect of short–term endurance training on exercise capacity, haemodynamics and atrial natriuretic peptide secretion in heart transplant recipients. Geny B, et al. **Eur J Appl Physiol** 1996;73(3–4):259–66

Resting hemodynamics after total versus standard orthotopic heart transplantation in patients with high preoperative pulmonary vascular resistance. Aleksic I, et al. **Eur J Cardiothorac Surg** 1997 Jun;11(6):1037–44

Hemodynamic assessment in pelvic inflammatory disease by transvaginal color Doppler ultrasonography. Alataş C, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec;70(1):75–8

Cardiac function in premature infants with bronchopulmonary dysplasia––a 1–year follow up [letter; comment] Trevisanuto D, et al. **Eur J Pediatr** 1996 Jul; 155(7):622. Comment on: Eur J Pediatr 1995 Oct;154(10):853–8.

Role of platelet–activating factor on cardiovascular dysfunction in postischemic shock in pigs. Abu–Zidan FM, et al. **Eur Surg Res** 1997;29(2):133–41

Evidence for reduced coronary flow reserve in patients with insulin–dependent diabetes. A possible cause for diabetic heart disease in man. Strauer BE, et al. **Exp Clin Endocrinol Diabetes** 1997;105(1):15–20

Effect of intermittent long–lasting electrical tooth stimulation on pulpal blood flow and immunocompetent cells: a hemodynamic and immunohistochemical study in young rat molars. Fristad I, et al. **Exp Neurol** 1997 Jul;146(1):230–9

Hemodynamics of pancreatic ischemia in cardiogenic shock in pigs. Reilly PM, et al. **Gastroenterology** 1997 Sep; 113(3):938–45

Paracentesis–induced circulatory dysfunction: mechanism and effect on hepatic hemodynamics in cirrhosis. Ruiz–del–Arbol L, et al. **Gastroenterology** 1997 Aug; 113(2):579–86

Is pressure recovery an important cause of "Doppler aortic stenosis" with no gradient at cardiac catheterisation? [editorial] Chambers J. **Heart** 1996 Nov;76(5):381–3

Sequelae after modified Fontan operation: postoperative haemodynamic data and organ function. Kaulitz R, et al. **Heart** 1997 Aug;78(2):154–9

Hypercoagulability and haemodynamic abnormalities in atrial fibrillation [comment] Lip GY. **Heart** 1997 May;77(5):395–6 . Comment on: Heart 1997 May;77(5):407–11.

Hepatic sinusoidal fibrosis induced by cholesterol and stilbestrol in the rabbit: 2. Hemodynamic and drug disposition studies. Mastaï R, et al. **Hepatology** 1996 Oct; 24(4):865–70

Comparison of vascular nitric oxide production and systemic hemodynamics in cirrhosis versus prehepatic portal hypertension in rats. Niederberger M, et al. **Hepatology** 1996 Oct;24(4):947–51

Long–term hemodynamic effects of portocaval shunt and Sugiura procedure in patients with cirrhosis. Vons C, et al. **HPB Surg** 1996;9(4):209–13

Regulation of vascular adaptation during pregnancy and post–partum: effects of nitric oxide inhibition and steroid hormones. Liao QP, et al. **Hum Reprod** 1996 Dec; 11(12):2777–84

Left ventricular filling in arterial hypertension. Influence of obesity and hemodynamic and structural confounders. Mureddu GF, et al. **Hypertension** 1997 Feb;29(2):544–50

Superiority of brain natriuretic peptide as a hormonal marker of ventricular systolic and diastolic dysfunction and ventricular hypertrophy [see comments] Yamamoto K, et al. **Hypertension** 1996 Dec;28(6):988–94. Comment in: Hypertension 1997 Aug;30(2 Pt 1):305–6.

Application of active contours for photochromic tracer flow extraction. Androutsos D, et al. **IEEE Trans Med Imaging** 1997 Jun;16(3):284–93

Haemodynamic changes during dobutamine stress echocardiography in patients with and without ischaemia. Mishra MB, et al. **Int J Cardiol** 1997 Jan 3;58(1):71–6

The hemodynamics of erectile dysfunction following nerve–sparing radical retropubic prostatectomy. Mulhall JP, et al. **Int J Impot Res** 1996 Jun;8(2):91–4

Effects of extreme lateral posture on hemodynamics and plasma atrial natriuretic peptide levels in critically ill patients. Bein T, et al. **Intensive Care Med** 1996 Jul; 22(7):651–5

Hemodynamic and gas exchange responses to inhalation of nitric oxide in patients with the acute respiratory distress syndrome and in hypoxemic patients with chronic obstructive pulmonary disease. Blanch L, et al. **Intensive Care Med** 1997 Jan;23(1):51–7

Cytokine removal and cardiovascular hemodynamics in septic patients with continuous venovenous hemofiltration. Heering P, et al. **Intensive Care Med** 1997 Mar;23(3):288–96

A randomized cross–over comparison of the hemodynamic response to intermittent hemodialysis and continuous hemofiltration in ICU patients with acute renal failure. Misset B, et al. **Intensive Care Med** 1996 Aug;22(8):742–6

Effects of Trendelenburg versus passive leg raising: autotransfusion in humans [letter] Terai C, et al. **Intensive Care Med** 1996 Jun;22(6):613–4

Hemodynamic characterization of the diabetic Psammomys obesus––an animal model of type II diabetes mellitus. Hilzenrat N, et al. **Isr J Med Sci** 1996 Nov;32(11):1074–8

Effects of oleic acid lung injury and positive end–expiratory pressure on central hemodynamics and regional blood flow. Walfisch S, et al. **Isr J Med Sci** 1997 Jan;33(1):14–7

Hemodynamic data and survival in children with pulmonary hypertension. Clabby ML, et al. **J Am Coll Cardiol** 1997 Aug;30(2):554–60

William Heberden revisited: postprandial angina–interval between food and exercise and meal composition are important determinants of time to onset of ischemia and maximal exercise tolerance. Kearney MT, et al. **J Am Coll Cardiol** 1997 Feb;29(2):302–7

From research to clinical practice: current role of intracoronary physiologically based decision making in the cardiac catheterization laboratory. Kern MJ, et al. **J Am Coll Cardiol** 1997 Sep;30(3):613–20 (62 ref.)

Left ventricular Doppler filling pattern in dilated cardiomyopathy: relation to hemodynamics and left atrial function. Ito T, et al. **J Am Soc Echocardiogr** 1997 Jun; 10(5):518–25

Critical role of the extracorporeal blood temperature in the hemodynamic response during hemofiltration. van Kuijk WH, et al. **J Am Soc Nephrol** 1997 Jun;8(6):949–55

Vascular reactivity during combined ultrafiltration–hemodialysis: influence of dialysate–derived contaminants. van Kuijk WH, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2664–9

Comparative hemodynamic effects of periodic obstructive and simulated central apneas in sedated pigs. Chen L, et al. **J Appl Physiol** 1997 Aug;83(2):485–94

Effect of heat stress on muscle sympathetic nerve activity in humans. Niimi Y, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1–2):61–7

Reflex haemodynamic responses caused by distension of the uterus in anaesthetized pigs. Vacca G, et al. **J Auton Nerv Syst** 1997 Mar 19;63(1–2):1–11

Effects of strength training on cardiovascular responses during a submaximal walk and a weight–loaded walking test in older females. Parker ND, et al. **J Cardiopulm Rehabil** 1996 Jan–Feb;16(1):56–62

Cardiorespiratory changes in patients undergoing pulmonary resection using different anesthetic management techniques. Boldt J, et al. **J Cardiothorac Vasc Anesth** 1996 Dec; 10(7):854–9

Intestinal permeability, circulating endotoxin, and postoperative systemic responses in cardiac surgery patients. Oudemans–van Straaten HM, et al. **J Cardiothorac Vasc Anesth** 1996 Feb;10(2):187–94

Biplane transesophageal color–flow Doppler imaging in assessing severity of mitral regurgitation: influence of hemodynamic circumstances and mechanism of regurgitation. Pieper EP, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):748–55

Vasoactive mediators affect the clearance of lipids from emulsion models of plasma lipoproteins in rats. Mackintosh VS, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):447–54

Physiological changes during acute obstruction of the superior vena cava, azygos, and internal thoracic veins in dogs. Urayama H, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):87–92

Circumferential deformation and shear stress induce differential responses in saphenous vein endothelium exposed to arterial flow. Golledge J, et al. **J Clin Invest** 1997 Jun 1;99(11):2719–26

Relationship between hepatic blood flow, liver tests, haemodynamic values and clinical characteristics in patients with chronic liver disease. Gadano A, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):167–71

Plasma concentrations of cyclic 3', 5'–guanosine monophosphate in patients with cirrhosis: relationship with atrial natriuretic peptide and haemodynamics. Kirstetter P, et al. **J Gastroenterol Hepatol** 1997 Mar;12(3):233–6

Effects of endoscopic variceal sclerotherapy on azygos vein blood flow and systemic haemodynamics. Yokoyama M, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):780–5

Fluid homeostasis after heart transplantation: the role of cardiac denervation. Braith RW, et al. **J Heart Lung Transplant** 1996 Sep;15(9):872–80

Valve replacement in aortic stenosis with preoperative mean gradient < 50 mmHg: hemodynamic outcome. Blackshear JL, et al. **J Heart Valve Dis** 1996 Nov;5(6):647–55

Mechanical pumping of portal blood to the liver: hemodynamic effects of a new experimental treatment for portal hypertension. Bernadich C, et al. **J Hepatol** 1996 Jul;25(1):98–105

Effects of portacaval shunting on hyperdynamic circulation in bile duct–ligated cirrhotic rats. Wong J, et al. **J Hepatol** 1997 Feb;26(2):369–75

Metabolic, humoral and haemodynamic characteristics of normotensive offspring from hypertensive families. Horký K, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S85–7

Animal model of the univentricular heart and single ventricular physiology. Randsbaek F, et al. **J Invest Surg** 1996 Sep–Oct;9(5):375–84

Intact cerebral blood flow reactivity during remifentanil/nitrous oxide anesthesia. Baker KZ, et al. **J Neurosurg Anesthesiol** 1997 Apr;9(2):134–40

Haemodynamic effects of differing blood transfusion rates in infants less than 1500 g. Nosè Y, et al. **J Paediatr Child Health** 1996 Apr;32(2):177–82

The hemodynamics of the umbilical artery in normal and pre–eclamptic pregnancies. A new application of SQUID biomagnetometry. Anastasiadis P, et al. **J Perinat Med** 1997;25(1):35–42

Direct observations of sympathetic cholinergic vasodilatation of skeletal muscle small arteries in the cat. Matsukawa K, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):213–25

Circulatory response evoked by a 3 s bout of dynamic leg exercise in humans. Wieling W, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):601–11

Analysis of the hemodynamics of a bypass with adjunctive arterio–venous fistula using a direct electrical circuit model. Spivak H, et al. **J Surg Res** 1996 Jul 1;63(2):381–6

Hemodynamic benefits of the Toronto Stentless Valve. Del Rizzo DF, et al. **J Thorac Cardiovasc Surg** 1996 Dec; 112(6):1431–45; discussion 1445–6

Hemodynamic effect of progressive right atrial dilatation in atriopulmonary connections. Lardo AC, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):2–8

A novel model to study the effects of burn lymph on pulmonary vascular hemodynamic variables. Hao Q, et al. **J Trauma** 1997 Sep;43(3):453–7

Effect of positive end–expiratory pressure on extravascular lung water and cardiopulmonary function in dogs with experimental severe hydrostatic pulmonary edema.

Hirakawa A, et al. **J Vet Med Sci** 1996 Apr;58(4):349–54

Comparison of systemic and renal hemodynamics measured by Doppler ultrasonography in canine experimental hypovolemia. Miyamoto T, et al. **J Vet Med Sci** 1997 May; 59(5):347–52

Coronary microvascular dysfunction is associated with ischemic-like electrocardiogram during exercise in patients with anginal chest pain and normal coronary angiograms. Chen JW, et al. **Jpn Heart J** 1996 Nov;37(6):865–78

Role of platelet-activating factor and prostanoids in hemodynamic changes in rat experimental endotoxic shock. Ebara T, et al. **Jpn J Pharmacol** 1996 Jul;71(3):247–53

Impact of nitric oxide deficiency on blood pressure and glomerular hemodynamic adaptations to pregnancy in the rat. Deng A, et al. **Kidney Int** 1996 Oct;50(4):1132–8

Exercise performance after PTMC in mitral stenosis: the relation with hemodynamics, ventilatory response and skeletal muscle function. Kakimoto T, et al. **Kobe J Med Sci** 1996 Oct;42(5):307–23

A technique of chronic intravascular catheterization for monitoring haemodynamic and laboratory values in conscious swine. Haberstroh J, et al. **Lab Anim** 1997 Jan; 31(1):70–3

A model for the extended studies of hepatic hemodynamics and metabolism in swine. Drougas JG, et al. **Lab Anim Sci** 1996 Dec;46(6):648–55

Cardiovascular status after postural change in compensated cirrhosis: an argument for vasodilatory concept. Hartleb M, et al. **Liver** 1997 Feb;17(1):1–6

Hypertension hemodynamics. Fouad-Tarazi FM. **Med Clin North Am** 1997 Sep;81(5):1131–45 (107 ref.)

The kidney in blood pressure regulation and development of hypertension. Navar LG. **Med Clin North Am** 1997 Sep; 81(5):1165–98 (179 ref.)

The role of mechanical stresses in microvascular remodeling. Skalak TC, et al. **Microcirculation** 1996 Jun;3(2):143–65 (198 ref.)

Regional vs systemic responses to mental stress: a potential mechanism for non-demand-related ischemia. Silverman DG, et al. **Microvasc Res** 1996 May;51(3):396–9

Renal haemodynamics in the elderly. Fliser D, et al. **Nephrol Dial Transplant** 1996;11 Suppl 9:2–8 (92 ref.)

Preventing haemodynamic instability in patients at risk for intra-dialytic hypotension. Leunissen KM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:11–5 (45 ref.)

Effects of body core temperature reduction on haemodynamic stability and haemodialysis efficacy at constant ultrafiltration. Levin NW, et al. **Nephrol Dial Transplant** 1996;11 Suppl 2:31–4

The effect of sodium and ultrafiltration modelling on plasma volume changes and haemodynamic stability in intensive care patients receiving haemodialysis for acute renal failure: a prospective, stratified, randomized, cross-over study. Paganini EP, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:32–7

Effect of haemodynamic variables on surgically created arteriovenous fistula flow. Yerdel MA, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1684–8

Circulating neuropeptide Y in humans: relation to changes in catecholamine levels and changes in hemodynamics. Hauser GJ, et al. **Neuropeptides** 1996 Apr;30(2):159–65

Hemodynamic and oxygen transport monitoring in management of burns. Schiller WR, et al. **New Horiz** 1996 Nov;4(4):475–82

Early physiologic patterns in acute illness and accidents: toward a concept of circulatory dysfunction and shock based on invasive and noninvasive hemodynamic monitoring. Shoemaker WC, et al. **New Horiz** 1996 Nov; 4(4):395–412

Invasive and noninvasive oxygen consumption and hemodynamic monitoring in elderly surgical patients. Yu M. **New Horiz** 1996 Nov;4(4):443–52 (111 ref.)

Comparison of the respiratory and hemodynamic responses of healthy subjects to exercise in three different protocols. Bogaard HJ, et al. **Occup Med (Oxf)** 1996 Aug;46(4):293–8

Acute hemodynamic improvement by pacing in patients with severe congestive heart failure. Auricchio A, et al. **Pacing Clin Electrophysiol** 1997 Feb;20(2 Pt 1):313–24

Acute hemodynamic effects of atrioventricular pacing at differing sites in the right ventricle individually and simultaneously. Buckingham TA, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):909–15

Hemodynamic effects and clinical determinants of defibrillation threshold for transvenous atrial defibrillation using biatrial biphasic shocks in patients with chronic atrial fibrillation. Lok NS, et al. **Pacing Clin Electrophysiol** 1997 Apr;20(4 Pt 1):899–908

Changes in cerebral cyclic nucleotides and cerebral blood flow during prolonged asphyxia and recovery in newborn pigs. Pourcyrous M, et al. **Pediatr Res** 1997 May; 41(5):617–23

Serial assessment of ductus arteriosus hemodynamics in hyaline membrane disease. Phillipos EZ, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1149–53

Localized near-infrared spectroscopy and functional optical imaging of brain activity. Tamura M, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):737–42

Cerebral oxygenation and haemodynamics in the foetus and newborn infant. Wyatt JS. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):697–700 (30 ref.)

Assessment of the haemodynamic response to exercise by means of electrical impedance cardiography: method, validation and clinical applications. Bogaard HJ, et al. **Physiol Meas** 1997 May;18(2):95–105 (53 ref.)

The physiology behind exercise testing. Myers JN. **Prim Care** 1994 Sep;21(3):415–37 (96 ref.)

Portal hemodynamics and humoral factors involved in a portal hypertensive rabbit model. Lin PW, et al. **Proc Natl Sci Counc Repub China B** 1995 Oct;19(4):240–5

Sequential hemodynamic changes for large volume paracentesis in post-hepatitic cirrhotic patients with massive ascites. Wang SS, et al. **Proc Natl Sci Counc Repub China B** 1996 Oct;20(4):117–22

Relationship between circulating levels of calcitonin gene-related peptide, nitric oxide metabolites and hemodynamic changes in human septic shock. Arnalich F, et al. **Regul Pept** 1996 Sep 9;65(2):115–21

Adverse haemodynamic effects of the rapid intravenous injection of hypotonic solutions in sheep. Huang YF, et al. **Res Vet Sci** 1996 May;60(3):209–12

Non-invasive haemodynamic effects of two nasal positive pressure ventilation modalities in stable chronic obstructive lung disease patients. Marangoni S, et al. **Respiration** 1997; 64(2):138–44

Longitudinal Doppler study of fetal haemodynamic parameters throughout pregnancy: preliminary results. Matias A, et al. **Rev Port Cardiol** 1996 Dec;15(12):917–22

Blood flow regulation by S-nitrosohemoglobin in the physiological oxygen gradient. Stamler JS, et al. **Science** 1997 Jun 27;276(5321):2034–7

Does nitric oxide mediate circulatory failure induced by 35-GHz microwave heating? Ryan KL, et al. **Shock** 1996 Jul;6(1):71–6

In vivo production of nitric oxide in the canine heart in IgE-mediated anaphylaxis. Saitoh J, et al. **Shock** 1996 Jul; 6(1):66–70

Pathophysiologic plasma levels of leukotriene C4 in relation to the hemodynamic dysfunction and mediator release of graded bacteremia. Zeltsman D, et al. **Shock** 1997 Apr; 7(4):282–7

Hemodynamic and sympathoinhibitory effects of nasal CPAP in congestive heart failure. Bradley TD. **Sleep** 1996 Dec; 19(10 Suppl):S232–5 (26 ref.)

Hemodynamic consequences of obstructive sleep apnea. Weiss JW, et al. **Sleep** 1996 Jun;19(5):388–97

An approach for the use of Doppler ultrasound as a screening tool for hemodynamically significant stenosis (despite heterogeneity of Doppler performance). A multicenter experience. Asymptomatic Carotid Atherosclerosis Study Investigators. Howard G, et al. **Stroke** 1996 Nov; 27(11):1951–7

Hemodynamic study of the anterior communicating artery. Ujiie H, et al. **Stroke** 1996 Nov;27(11):2086–93; discussion 2094

Laparoscopic cholecystectomy in patients with cardiac disease: hemodynamic advantage of the abdominal wall retraction method. Uchikoshi F, et al. **Surg Laparosc Endosc** 1997 Jun;7(3):196–201

Hemodynamic alteration by fetal surgery accelerates myocyte proliferation in fetal guinea pig hearts. Saiki Y, et al. **Surgery** 1997 Aug;122(2):412–9

Increased mediastinal pressure and decreased cardiac output during laparoscopic Nissen fundoplication. Talamini MA, et al. **Surgery** 1997 Aug;122(2):345–52; discussion 352–3

Structure conditions function and vice versa [editorial] Lunkenheimer PP. **Technol Health Care** 1997 Apr; 5(1–2):1–12 (84 ref.)

A perspective on myocardial contractility. Palladino JL, et al. **Technol Health Care** 1997 Apr;5(1–2):135–44

Regression of post-Fontan protein-losing enteropathy. After surgical correction of hemodynamic faults other than high right atrial pressure. Ventriglia F, et al. **Tex Heart Inst J** 1996;23(3):233–5

Resting hemodynamics after total versus standard orthotopic heart transplantation. Aleksic I, et al. **Thorac Cardiovasc Surg** 1996 Aug;44(4):193–8

Identification of quantifiable hemodynamic factors in the assessment of cerebral aneurysm behavior. On behalf of the Subcommittee on Biorheology of the Scientific and Standardization Committee of the ISTH. Burleson AC, et al. **Thromb Haemost** 1996 Jul;76(1):118–23 (67 ref.)

Immunological and hemodynamic mechanisms in chronic renal allograft rejection. Paul LC, et al. **Transpl Immunol** 1996 Mar;4(1):39–42 (27 ref.)

Hemodynamic and metabolic effects of transjugular intrahepatic portosystemic shunt (TIPS) during anesthesia for orthotopic liver transplantation. Antonini M, et al. **Transpl Int** 1996;9(4):403–7 (9 ref.)

Influence of donor base deficit status on recipient outcomes in liver transplantation. delaTorre AN, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):474

Initial cardiac arrest is a risk factor for failure of organ procurement in brain-dead patients. Delaunay L, et al. **Transplant Proc** 1996 Oct;28(5):2894

Right ventricular ejection fraction predicts urgent need for heart transplantation. Frey B, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):592

Influence of allograft coronary artery disease on survival and cardiac function in the decade following orthotopic cardiac transplantation. Grocott-Mason RM, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):576–7

Differences in hemodynamic stability at reperfusion during intestinal transplantation with and without colon in pigs. Spada M, et al. **Transplant Proc** 1996 Oct;28(5):2711–2

Validation of big endothelin plasma levels compared with established neurohumoral markers in patients with severe chronic heart failure. Stanek B, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):595–6

Influence of cyclic guanosine monophosphate changes on hemodynamics after reperfusion in liver transplantation. Bzeizi KI, et al. **Transplantation** 1997 Feb 15;63(3):403–6

[The characteristics of changes in the hemodynamics and respiratory function of children with severe closed abdominal trauma] Tsareva M, et al. **Khirurgiia (Sofiia)** 1996;49(3):24–9 (Eng. Abstr.) **(Bul)**

[Role of nitric oxide in hemodynamic and extravascular lung water in a dog endotoxin shock model] Wu X, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Oct;76(10):738–41 (Eng. Abstr.) **(Chi)**

[Thoracic electric impedance and fluid balance during aortic surgery] Jónsson F, et al. **Ugeskr Laeger** 1996 Oct 28; 158(44):6256–9 (Eng. Abstr.) **(Dan)**

[Comparison of hemodynamic and ventilatory effects of pneumoperitoneum using carbon dioxide or abdominal suspension during laparoscopic cholecystectomy] Demers P, et al. **Ann Chir** 1996;50(8):593–600 (Eng. Abstr.) **(Fre)**

[Effect of the ventricular preload on the basal and stimulated coronary circulation of the isolated rat heart] Latulippe JF, et al. **Ann Chir** 1996;50(8):689–95 (Eng. Abstr.) **(Fre)**

[5 years results of percutaneous mitral commissurotomy. Apropos of a series of 606 patients; late results after mitral dilatation] Iung B, et al. **Arch Mal Coeur Vaiss** 1996 Dec; 89(12):1591–8 (30 ref.) (Eng. Abstr.) **(Fre)**

[Improvement of patients' condition by using a mechanical heart-assist device] Jacquet L. **Arch Mal Coeur Vaiss** 1996 Nov;89 Spec No 6:75–9 (13 ref.) (Eng. Abstr.) **(Fre)**

[To surpass coronary luminology with interventional physiology] Kern MJ. **Arch Mal Coeur Vaiss** 1997 May; 90 Spec No 2:41–50 (33 ref.) (Eng. Abstr.) **(Fre)**

[Influence of anemia on hemodynamic changes in patients with cirrhosis] Denié C, et al. **Gastroenterol Clin Biol** 1997; 21(1):29–33 (Eng. Abstr.) **(Fre)**

[Pain conditioned changes in animal behavior] Otto K. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb;104(2):46–8 (Eng. Abstr.) **(Ger)**

[Indicators of circulation, respiration and muscle strength in puberty] Knussmann R, et al. **Z Morphol Anthropol** 1995 Dec;81(1):101–10 (Eng. Abstr.) **(Ger)**

[Pulmonary hemodynamics: not exactly everything is obvious (editorial)] Agostoni PG. **Cardiologia** 1997 Jan;42(1):7–10 **(Ita)**

[The birth of hemodynamics] Cosmacini G. **Cardiologia** 1996 Dec;41(12):1221–3 **(Ita)**

[The extra- and intracranial correlations of cerebral hemodynamics] Antignani PL, et al. **Clin Ter** 1996 May; 147(5):253–7 (Eng. Abstr.) **(Ita)**

[Cardiomyoplasty. Critical review of experimental and clinical results] Calsamiglia G, et al. **G Ital Cardiol** 1996 Dec;26(12):1467–79 (57 ref.) (Eng. Abstr.) **(Ita)**

[Pulmonary venous flow in patients with chronic heart failure: feasibility and additional value compared to transmitral flow for non-invasive estimation of pulmonary wedge pressure] Capomolla S, et al. **G Ital Cardiol** 1996 Oct;26(10):1123–37 (Eng. Abstr.) **(Ita)**

[Gelatin for volume replacement in hemodilution: hemodynamic study] Falchi S, et al. **Minerva Anestesiol** 1995 Jul-Aug;61(7–8):299–305 (Eng. Abstr.) **(Ita)**

[Secretion of atrial natriuretic peptide from the left ventricle and heart in patients with hypertrophic cardiomyopathy: relationship with hemodynamic and echocardiographic profiles] Ishii Y, et al. **J Cardiol** 1997 Jul;30(1):19–28 (Eng. Abstr.) **(Jpn)**

[Efficacy of increase of cardiac index during exercise in the chronic phase of various cardiovascular diseases: evaluation by exercise tolerance and brain natriuretic peptide] Omiya K, et al. **J Cardiol** 1997 Mar;29(3):149–56 (Eng. Abstr.) **(Jpn)**

[Successful repair of a newborn case with total anomalous pulmonary venous connection presenting hemodynamically common pulmonary vein atresia] Takeuchi T, et al. **Kyobu Geka** 1997 Apr;50(4):298–301 (Eng. Abstr.) **(Jpn)**

[The effect of epidural anesthesia with combined use of vasodilator on hemodynamics and stress hormone levels during hepatectomy] Arai M, et al. **Masui** 1997 Feb; 46(2):158–65 (Eng. Abstr.) **(Jpn)**

[Usefulness of alpha 2-adrenoceptor agonists and practical problems associated with their use in clinical anesthesia—1. Premedication, anesthetic adjuvants, and hemodynamic effects] Nishikawa T, et al. **Masui** 1996 Dec; 45(12):1490–502 (113 ref.) (Eng. Abstr.) **(Jpn)**

[Anesthesia induction for laryngeal mask insertion—comparison of propofol with midazolam and propofol with thiopental] Nishiyama T, et al. **Masui** 1997 Feb;46(2):188–92 (Eng. Abstr.) **(Jpn)**

[Hemodynamic changes during laparoscopic cholecystectomy under different anesthesia methods] Yokoyama M, et al. **Masui** 1996 Feb;45(2):160–6 (Eng. Abstr.) **(Jpn)**

[Evaluation of the severity of cardiogenic shock by monitoring of their hemodynamics] Matsuzaki M, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10;85(1):27–32 (5 ref.) **(Jpn)**

HEMODYNAMICS

[Etiology and physiopathology of cardiogenic shock—mechanism of circulatory regulation and disturbance of the function] Sugimachi M, et al. **Nippon Naika Gakkai Zasshi** 1996 Jan 10;85(1):7–11 (5 ref.) **(Jpn)**

[Color Doppler echocardiographic estimation for cardiac function] Matsumura M, et al. **Nippon Rinsho** 1997 Mar; 55 Suppl 1:588–93 (10 ref.) **(Jpn)**

[Hemodynamic measurement by Swan–Ganz catheter] Muramatsu T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:514–8 (5 ref.) **(Jpn)**

[Evaluation of cardiac function by pulsed and continuous Doppler echocardiography and tissue Doppler imaging] Oki T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:594–8 (9 ref.) **(Jpn)**

[Mechanocardiogram] Sawayama T, et al. **Nippon Rinsho** 1997 Mar;55 Suppl 1:575–80 (3 ref.) **(Jpn)**

[Hemodynamic simulation study of cerebral arteriovenous malformations: changes of wall stress and early detection of NPPB] Nagasawa S, et al. **No Shinkei Geka** 1996 Oct; 24(10):897–903 (Eng. Abstr.) **(Jpn)**

[Relations between stress in daily life and hypertensive cardiovascular accidents] Tochikubo O. **Rinsho Byori** 1997 Jan;45(1):32–8 (Eng. Abstr.) **(Jpn)**

[Correlation between aortic transvalvular gradient obtained with Doppler ultrasonography and with hemodynamics study. Role of the underlying etiology] Gonçalves LM, et al. **Rev Port Cardiol** 1996 Oct;15(10):717–22, 695 (Eng. Abstr.) **(Por)**

[Components of anesthesiological provision and central hemodynamics in hypothermia without perfusion] Naumenko SE, et al. **Anesteziol Reanimatol** 1997 Mar–Apr; (2):22–5 (Eng. Abstr.) **(Rus)**

[Changes in hemodynamics and the sympathetic–adrenal system during combined transcutaneous electric nerve stimulation in minor surgical interventions] Ostreikov IF, et al. **Anesteziol Reanimatol** 1995 Nov–Dec;(6):20–3 **(Rus)**

[Effects of microgravity on indices of hemodynamics in monkeys during postural tests] Krotov VP, et al. **Aviakosm Ekolog Med** 1997;31(2):14–20 (Eng. Abstr.) **(Rus)**

[Effects of the tone of arterial vessels on the antiorthostatic response of hemodynamics] Osadchiĭ LI, et al. **Aviakosm Ekolog Med** 1997;31(2):20–4 (Eng. Abstr.) **(Rus)**

[Hemodynamic structure of antiorthostatic reactions: relationship of mechanical activity of the heart and arterial pressure] Osadchiĭ LI, et al. **Aviakosm Ekolog Med** 1997; 31(3):19–23 (Eng. Abstr.) **(Rus)**

[Possibilities of the use of static ergometric functional test in clinical practice] Vartbaronov RA, et al. **Aviakosm Ekolog Med** 1996;30(2):44–8 (Eng. Abstr.) **(Rus)**

[Hemodynamic reactions in acute period of massive embolism of pulmonary arteries] Tverskaia MS, et al. **Biull Eksp Biol Med** 1997 May;123(5):579–83 **(Rus)**

[The central hemodynamic status of patients with arteriosclerosis obliterans of the arteries of the lower extremities] Gubka AV, et al. **Klin Khir** 1996;(7):19–21 **(Rus)**

[The effects of plasmapheresis on central hemodynamics and cerebral circulation in hypertensive patients] Alizade IG, et al. **Klin Med (Mosk)** 1996;74(5):32–3 (Eng. Abstr.) **(Rus)**

[Changes in the hemodynamic indices of patients with juvenile hypertension and different hemodynamic types of circulation] Chernoguz LS, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):42–5 **(Rus)**

[The interrelationship of hemodynamic indices with the phasic structure parameters of the left ventricle in hypertension patients] Selivonenko VG, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):57–8 (Eng. Abstr.) **(Rus)**

[Bioelectric activity of the myocardium and central hemodynamics in patients with vibration disease] Liubchenko PN, et al. **Med Tr Prom Ekol** 1996;(12):11–4 (Eng. Abstr.) **(Rus)**

[Central hemodynamic function and the correction of heart rhythm disorders at the rehabilitation stage in IHD patients] Sidorova LD, et al. **Ter Arkh** 1996;68(8):15–9 (Eng. Abstr.) **(Rus)**

[Central and regional hemodynamics during the physiological course of pregnancy and the systemic circulatory disorders in gestoses] Strizhakov AN, et al. **Vestn Ross Akad Med Nauk** 1996;(6):72–7 (Eng. Abstr.) **(Rus)**

[The effect of combined transcerebral magnetic and electric impulse therapy on the cerebral and central hemodynamic status of stroke patients in the early rehabilitation period] Gorbunov FE, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 May–Jun; (3):21–4 (Eng. Abstr.) **(Rus)**

[Bromide–iodide baths and magnetic–laser radiation in the correction of disorders of hemodynamics and of the adaptation processes in metallurgical workers] Konevskikh LA, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Jul–Aug;(4):20–2 (Eng. Abstr.) **(Rus)**

[Autonomic regulation of cardiac activity and the status of central hemodynamics in patients with idiopathic mitral valve prolapse] Shmyrev VI, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(3):25–8 (Eng. Abstr.) **(Rus)**

[Heart failure in acute myocardial infarct and the importance of hemodynamic monitoring] Kohn R. **Bratisl Lek Listy** 1996 Aug;97(8):479–81 (Eng. Abstr.) **(Slo)**

[Effects of percutaneous intrahepatic portosystemic shunt on splanchnic and systemic hemodynamics in patients with portal hypertension] François E, et al. **Gastroenterol Hepatol** 1997 Jan;20(1):1–4 (Eng. Abstr.) **(Spa)**

[Blood pressure levels in young students. Correlation between body mass and metabolic and hemodynamic factors] De Lena SM, et al. **Medicina (B Aires)** 1996;56(2):161–8 (Eng. Abstr.) **(Spa)**

[Post-reperfusion syndrome in orthotopic liver transplantation (see comments)] Acosta F, et al. **Rev Esp Anestesiol Reanim** 1996 Oct;43(8):276–80 (Eng. Abstr.). Comment in: Rev Esp Anestesiol Reanim 1997 Apr;44(4):162–4. **(Spa)**

[Hemodynamic response to intubation with Macintosh and McCoy blades] Román J, et al. **Rev Esp Anestesiol Reanim** 1996 May;43(5):177–9 (Eng. Abstr.) **(Spa)**

[Anesthesia in laparoscopic cholecystectomy with CO2: comparison of the hemodynamic and respiratory behavior using 2 different anesthetic techniques (see comments)] Rubio–Martínez CJ, et al. **Rev Esp Anestesiol Reanim** 1996 Jan;43(1):12–6 (Eng. Abstr.). Comment in: Rev Esp Anestesiol Reanim 1996 Jun–Jul;43(6):227–8. **(Spa)**

[Anesthesia for laparoscopic cholecystectomy with CO2: comparison of hemodynamic and ventilatory behavior using 2 different anesthetic techniques (letter; comment)] Sabaté A, et al. **Rev Esp Anestesiol Reanim** 1996 Jun–Jul; 43(6):227–8. Comment on: Rev Esp Anestesiol Reanim 1996 Jan;43(1):12–6. **(Spa)**

[Atrioventricular stimulation in symptomatic obstructive hypertrophic myocardiopathy: still too many questions (comment)] Penas Lado M, et al. **Rev Esp Cardiol** 1996 Nov;49(11):823–5. Comment on: Rev Esp Cardiol 1996 Nov;49(11):815–22. **(Spa)**

[Immediate hemodynamic response to atrioventricular+ stimulation in severe hypertrophic obstructive myocardiopathy (see comments)] Tascón Pérez JC, et al. **Rev Esp Cardiol** 1996 Nov;49(11):815–22 (Eng. Abstr.). Comment in: Rev Esp Cardiol 1996 Nov;49(11):823–5. **(Spa)**

[Registry of activities at the Section of Hemodynamics and Interventional Cardiology in 1995] Zueco J, et al. **Rev Esp Cardiol** 1996 Oct;49(10):714–22 (Eng. Abstr.) **(Spa)**

[Noncardiogenic pulmonary edema associated with hydrochlorothiazide use] Saldaña A, et al. **Rev Med Chil** 1996 Jun;124(6):720–4 (Eng. Abstr.) **(Spa)**

[Insulin as vasoactive hormone. Significance for diabetes, obesity and hypertension] Lind L, et al. **Lakartidningen** 1997 Aug 6;94(32–33):2730–2 (47 ref.) **(Swe)**

[The correlations between the arterial and venous components of the hemodynamics and cerebrospinal fluid pressure in arterial hypotension] Herasymchuk RD. **Lik Sprava** 1996 Mar–Apr;(3–4):45–9 (Eng. Abstr.) **(Ukr)**

DRUG EFFECTS

Comparison of cardiovascular changes after administration of gadodiamide injection and gadopentetate dimeglumine in dogs. Bøkenes J, et al. **Acad Radiol** 1997 Mar;4(3):204–9

Acute hemodynamic effects of recently developed monomer and dimer magnetic resonance imaging contrast media: a comparative study. Geschwind JF, et al. **Acad Radiol** 1996 Aug;3(8):667–77

Low-dose intravenous clonidine in children: plasma concentrations and haemodynamic response. Bergendahl HT, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):381–4

Metabolic, ventilatory and circulatory effects of doxapram in anaesthetized pigs during normoxia and hypoxia. Björk L, et al. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 1):919–26

Haemodynamic interaction of high-dose fentanyl and increasing doses of vecuronium in patients undergoing myocardial revascularization. Couture P, et al. **Acta Anaesthesiol Scand** 1996 Jan;40(1):32–8

Cardiovascular effects of desflurane and isoflurane in patients with coronary artery disease. Grundmann U, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1101–7

Haemodynamics during inhalation of a 50% nitrous-oxide–in–oxygen mixture with and without hypovolaemia. Hahn RG, et al. **Acta Anaesthesiol Scand** 1997 Apr;41(4):485–91

Haemodynamic effects of high-dose vecuronium compared with pancuronium in beta-blocked patients with coronary artery disease during fentanyl–diazepam–nitrous oxide anaesthesia. Husby P, et al. **Acta Anaesthesiol Scand** 1996 Jan;40(1):26–31

Hemodynamic effects of tracheal and intravenous adrenaline in infants with congenital heart anomalies. Jonmarker C, et al. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 1):927–31

Hemodynamic and coronary vascular effects of dexmedetomidine in the anesthetized goat. Lawrence CJ, et al. **Acta Anaesthesiol Scand** 1997 Aug;41(7):830–6

Alleviation of the peripheral hemodynamic effects of dexmedetomidine by the calcium channel blocker isradipine. Roekaerts PM, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):364–70

Hemodilution significantly decreases tolerance to isoflurane-induced cardiovascular depression. Schou H, et al. **Acta Anaesthesiol Scand** 1997 Feb;41(2):218–28

The haemodynamic effects of rocuronium and vecuronium are different under balanced anaesthesia. Stevens JB, et al. **Acta Anaesthesiol Scand** 1997 Apr;41(4):502–5

Effects of desflurane on systemic, preportal and renal circulatory responses to infra-renal aortic cross-clamping in the pig. Sundeman H, et al. **Acta Anaesthesiol Scand** 1996 Sep;40(8 Pt 1):876–82

Lidocaine-induced hemodynamic effects are enhanced by the inhibition of endothelium-derived relaxing factor in dogs. Toyoyama H, et al. **Acta Anaesthesiol Scand** 1997 Jun; 41(6):766–73

A comparison of lidocaine, fentanyl, and esmolol for attenuation of cardiovascular response to laryngoscopy and tracheal intubation. Feng CK, et al. **Acta Anaesthesiol Sin** 1996 Jun;34(2):61–7

Effects of dobutamine, epinephrine and norepinephrine on the hemodynamics of dogs during hemorrhagic shock. Luo X, et al. **Acta Anaesthesiol Sin** 1997 Jun;35(2):61–71

Short-term treatment with ramipril normalizes renal haemodynamics and the natriuretic response to a sodium load in type 1 diabetic patients with early nephropathy. Stenvinkel P, et al. **Acta Diabetol** 1997 Mar;34(1):10–7

Acute haemodynamic effects of diltiazem and its distribution in relation to the myocardial infarction size. Hrdina R, et al. **Acta Medica (Hradec Kralove)** 1996;39(3):107–13

Haemodynamic ischaemia in paediatric moyamoya disease associated with renovascular hypertension. Takagi Y, et al. **Acta Neurochir (Wien)** 1997;139(3):257–8

Comparative study of the circulatory effects of aminoguanidine and N-nitro-L-arginine in hyperdynamic endotoxemia. Tárnoky K, et al. **Acta Physiol Hung** 1996; 84(2):157–70

Effect of nitric oxide and renal nerves on renomedullary haemodynamics in SHR and Wistar rats, studied with laser Doppler technique. Bergström G, et al. **Acta Physiol Scand** 1996 Jan;156(1):27–36

Role of L-arginine in preventing myocardial and endothelial injury following ischaemia/reperfusion in the rat isolated heart. Li XS, et al. **Acta Physiol Scand** 1996 Jan; 156(1):37–44

Bolus injection of MR contrast agents: hemodynamic effects evaluated by intracerebral laser Doppler flowmetry in rats. Doerfler A, et al. **AJNR Am J Neuroradiol** 1997 Mar; 18(3):427–34

Acute hemodynamic, pituitary, and adrenocortical responses to alcohol in adult female sheep. Cudd TA, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9):1675–81

Contrasting effects of urethane, ketamine, and thiopental anesthesia on ethanol–clonidine hemodynamic interaction. el-Mas MM, et al. **Alcohol Clin Exp Res** 1997 Feb; 21(1):19–27

Hemodynamic effects of fructose 1,6-diphosphate in patients with normal and impaired left ventricular function. Markov AK, et al. **Am Heart J** 1997 May;133(5):541–9

Enalapril reduces QTc dispersion in mild congestive heart failure secondary to coronary artery disease. Barr CS, et al. **Am J Cardiol** 1997 Feb 1;79(3):328–33

Effects of short-term treatment of nicorandil on exercise-induced myocardial ischemia and abnormal cardiac autonomic activity in microvascular angina. Chen JW, et al. **Am J Cardiol** 1997 Jul 1;80(1):32–8

Hemodynamic effects of the class III antiarrhythmic drug, d-sotalol, in patients with congestive heart failure. Gottlieb SS, et al. **Am J Cardiol** 1996 Dec 15;78(12):1411–5

Hemodynamic effects of a single intravenous injection of synthetic human brain natriuretic peptide in patients with heart failure secondary to ischemic or idiopathic dilated cardiomyopathy. Hobbs RE, et al. **Am J Cardiol** 1996 Oct 15;78(8):896–901

Dose dependence of chronic positive inotropic effect of vesnarinone in patients with congestive heart failure due to idiopathic or ischemic cardiomyopathy. Kass DA, et al. **Am J Cardiol** 1996 Sep 15;78(6):652–6

Hemodynamic effects of acute ethanol in young adults. Kelly LF, et al. **Am J Cardiol** 1996 Oct 1;78(7):851–4

Lack of effect of estrogen on rest and treadmill exercise in postmenopausal women without known cardiac disease. Lee M, et al. **Am J Cardiol** 1997 Sep 15;80(6):793–7

Effect of acute administration of estradiol 17 beta on aortic blood flow in menopausal women. Leonardo F, et al. **Am J Cardiol** 1997 Sep 15;80(6):791–3

Acute reversibility of pulmonary hypertension predicts neither long-term hemodynamic response nor outcome in patients awaiting heart transplantation. Levine TB, et al. **Am J Cardiol** 1997 Jan 1;79(1):105–6

Cardiac effects of calcium antagonists in systemic hypertension. Michalewicz L, et al. **Am J Cardiol** 1997 May 22;79(10A):39–46; discussion 47–8 (145 ref.)

Acute hemodynamic effects of estrogen administration in postmenopausal women. Sbarouni E, et al. **Am J Cardiol** 1997 Aug 15;80(4):532–5

Influence of gender on physiologic response and accuracy of dobutamine echocardiography. Secknus MA, et al. **Am J Cardiol** 1997 Sep 15;80(6):721–4

Direct comparison of arbutamine and dobutamine stress testing with myocardial perfusion imaging and echocardiography in patients with coronary artery disease. Shehata AR, et al. **Am J Cardiol** 1997 Sep 15;80(6):716–20

Hemodynamic analysis during isoproterenol-induced vasovagal syncope. Shen WK, et al. **Am J Cardiol** 1997 Sep 15;80(6):817–22

Acute hemodynamic effects of intravenous ibutilide in patients with or without reduced left ventricular function. Stambler BS, et al. **Am J Cardiol** 1997 Aug 15;80(4):458–63

Comparison of cocaine–induced vasoconstriction of left and right coronary arterial systems. Vongpatanasin W, et al. **Am J Cardiol** 1997 Feb 15;79(4):492–3

Cardiovascular and renal effects of low–dose atrial natriuretic peptide in compensated cirrhosis. La Villa G, et al. **Am J Gastroenterol** 1997 May;92(5):852–7

Hemodynamic effects of the Fab fragment of digoxin antibody (digibind) in corticotropin (ACTH)–induced hypertension. Li M, et al. **Am J Hypertens** 1997 Mar; 10(3):332–6

Insulin resistance and salt sensitivity. A renal hemodynamic abnormality? Weir MR. **Am J Hypertens** 1996 Dec;9(12 Pt 2):193S–199S (74 ref.)

Medium–term effectiveness of L–thyroxine treatment in idiopathic dilated cardiomyopathy [see comments] Moruzzi P, et al. **Am J Med** 1996 Nov;101(5):461–7. Comment in: Am J Med 1996 Nov;101(5):459–60.

Effect of nifedipine on fetal and maternal hemodynamics and blood gases in the pregnant ewe. Blea CW, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):922–30

Fetal and maternal hemodynamic and metabolic effects of maternal nitroglycerin infusions in sheep. Bootstaylor BS, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):644–50

Central hemodynamic effects of oxytocin and interaction with magnesium and pregnancy in the isolated perfused rat heart. Coulson CC, et al. **Am J Obstet Gynecol** 1997 Jul;177(1):91–3

Hemodynamic effects of oral nifedipine in preeclamptic hypertensive emergencies. Scardo JA, et al. **Am J Obstet Gynecol** 1996 Aug;175(2):336–8; discussion 338–40

Control of oxidative metabolism in volume–overloaded rat hearts: effect of propionyl–L–carnitine. El Alaoui–Talibi Z, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1615–24

Cholesterol feeding does not alter renal hemodynamic response to acetylcholine and angiotensin II in rabbits. Carroll JF, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R940–7

Hemodynamic and renal effects of cross–linked hemoglobin infusion. Cases A, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R793–9

Hemodynamic, hormonal, and renal effects of adrenomedullin in conscious sheep. Charles CJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):R2040–7

Endothelin–1 myocardial clearance, production, and effect on capillary permeability in vivo. Dupuis J, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1239–45

Participation of adenosine in the renal hemodynamic abnormalities of hypothyroidism. Franco M, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):F254–62

Ovine fetal cardiovascular, renal, and fluid balance responses to 3 days of high arginine vasopressin levels. Gibson KJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1069–76

BNP: pathophysiological and potential therapeutic roles in acute congestive heart failure. Grantham JA, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1077–83

Role of sympathetic nervous system in cardiovascular effects of centrally administered endothelin–1 in rats. Gulati A, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1177–86

Physiological role of nitric oxide in regulation of renal function in humans. Haynes WG, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):F364–71

Regional myocardial effects of intracoronary bradykinin in conscious dogs. Houel R, et al. **Am J Physiol** 1997 Mar; 272(3 Pt 2):H1266–74

Atrial natriuretic peptide in preeclampsia: metabolic clearance, sodium excretion and renal hemodynamics. Irons DW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F483–7

Mechanisms mediating gastric hyperemic and acid responses to central TRH analog at a cytoprotective dose. Király A, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G31–8

Role of nitrosyl factors in the hemodynamic adjustments to heat stress in the rat. Kregel KC, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1537–43

Hemodynamic effects of intracoronary VEGF delivery: evidence of tachyphylaxis and NO dependence of response. Lopez JJ, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1317–23

Role of nitric oxide in the arterial pressure and renal adaptations to long–term changes in sodium intake. Manning RD Jr, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1162–9

Infarct size reduction with the nucleoside transport inhibitor R–75231 in swine. Martin BJ, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1857–65

Cardiovascular effects of homologous bradykinin in rainbow trout. Olson KR, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):R1112–20

Ryanodine and left ventricular function in intact dogs: dissociation of force–based and velocity–based indexes. Prabhu SD, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1561–8

A novel model of conduit coronary constriction reveals local actions of endothelin–1 and prostaglandin F2alpha. Rigel DF, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H2054–64

Effects of dextran on microvascular ischemia–reperfusion injury in striated muscle. Steinbauer M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 2):H1710–6

Hemodynamic effects of L– and D–S–nitroso–beta,beta–dimethylcysteine in rats. Travis MD, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1493–501

Effects of chronic dexfenfluramine treatment on pulmonary hemodynamics in dogs. Naeije R, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1347–50

Combined inhalation of nitric oxide and oxygen in chronic obstructive pulmonary disease. Yoshida M, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):526–9

Physiologic effects of anesthesia induced and maintained by intravenous administration of a climazolam–ketamine combination in ponies premedicated with acepromazine and xylazine. Bettschart–Wolfensberger R, et al. **Am J Vet Res** 1996 Oct;57(10):1472–7

Cardiopulmonary effects of propofol infusion in llamas. Duke T, et al. **Am J Vet Res** 1997 Feb;58(2):153–6

Oncotic, hemodilutional, and hemostatic effects of isotonic saline and hydroxyethyl starch solutions in clinically normal ponies. Jones PA, et al. **Am J Vet Res** 1997 May; 58(5):541–8

Acid–base, metabolic, and hemodynamic effects of sodium bicarbonate or tromethamine administration in anesthetized dogs with experimentally induced metabolic acidosis. Moon PF, et al. **Am J Vet Res** 1997 Jul;58(7):771–6

Cardiopulmonary effects of sevoflurane, compared with halothane, enflurane, and isoflurane, in dogs. Mutoh T, et al. **Am J Vet Res** 1997 Aug;58(8):885–90

Effects of a carfentanil–xylazine combination on cardiopulmonary function and plasma catecholamine concentrations in female bongo antelopes. Schumacher J, et al. **Am J Vet Res** 1997 Feb;58(2):157–61

Cardiopulmonary and gastrointestinal motility effects of xylazine/ketamine–induced anesthesia in horses previously treated with glycopyrrolate. Singh S, et al. **Am J Vet Res** 1996 Dec;57(12):1762–70

Comparison of antinociceptive, cardiovascular, and respiratory effects, head ptosis, and position of pelvic limbs in mares after caudal epidural administration of xylazine and detomidine hydrochloride solution. Skarda RT, et al. **Am J Vet Res** 1996 Sep;57(9):1338–45

Evaluation of analgesia and cardiorespiratory effects of epidurally administered butorphanol in isoflurane–anesthetized dogs. Troncy E, et al. **Am J Vet Res** 1996 Oct;57(10):1478–82

Adverse cardiovascular effects of ketamine infusion in patients with catecholamine–dependent heart failure. Christ G, et al. **Anaesth Intensive Care** 1997 Jun;25(3):255–9

Amrinone versus dobutamine in cardiac surgical patients with severe pulmonary hypertension after cardiopulmonary bypass: a prospective, randomized double–blinded trial. Jenkins IR, et al. **Anaesth Intensive Care** 1997 Jun; 25(3):245–9

Neuromuscular and cardiovascular advantages of combinations of mivacurium and rocuronium over either drug alone [see comments] Kim SY, et al. **Anaesthesia** 1996 Oct;51(10):929–31. Comment in: Anaesthesia 1997 Mar;52(3):279–80. Comment in: Anaesthesia 1997 Mar;52(3):280.

The cardiovascular responses to double lumen endobronchial intubation and the effect of esmolol. Thompson JP, et al. **Anaesthesia** 1997 Aug;52(8):790–4

A comparison of the hemodynamic effects of amrinone and sodium nitroprusside in infants after cardiac surgery. Bailey JM, et al. **Anesth Analg** 1997 Feb;84(2):294–8

Blunting the hemodynamic response to skull–pin placement [letter; comment] Colley PS. **Anesth Analg** 1997 Apr; 84(4):942. Comment on: Anesth Analg 1996 Dec;83(6):1256–61.

The effects of epidural fentanyl on hemodynamic responses during emergence from isoflurane anesthesia and tracheal extubation: a comparison with intravenous fentanyl. Inagaki Y, et al. **Anesth Analg** 1997 Aug;85(2):328–35

Effects of epidural and intravenous buprenorphine on halothane minimum alveolar anesthetic concentration and hemodynamic responses. Inagaki Y, et al. **Anesth Analg** 1997 Jan;84(1):100–5

Effects of a hemoglobin–based oxygen carrier (HBOC–201) on hemodynamics and oxygen transport in patients undergoing preoperative hemodilution for elective abdominal aortic surgery. Kasper SM, et al. **Anesth Analg** 1996 Nov;83(5):921–7

The effect of milrinone on hemodynamics and left ventricular function after emergence from cardiopulmonary bypass. Kikura M, et al. **Anesth Analg** 1997 Jul;85(1):16–22

Early hemodynamic effects of left atrial administration of epinephrine after cardiac transplantation. Myles PS, et al. **Anesth Analg** 1997 May;84(5):976–81

Hemodynamic effects of anesthesia in patients with ischemic heart failure chronically treated with angiotensin–converting enzyme inhibitors. Ryckwaert F, et al. **Anesth Analg** 1997 May;84(5):945–9

The effects of atrial natriuretic peptide infusion on hemodynamic, renal, and hormonal responses during gastrectomy. Shirakami G, et al. **Anesth Analg** 1997 Oct; 85(4):907–12

Perioperative sympatholysis. Beneficial effects of the alpha 2–adrenoceptor agonist mivazerol on hemodynamic stability and myocardial ischemia. McSPI—Europe Research Group. **Anesthesiology** 1997 Feb;86(2):346–63

Hypoxic pulmonary vasoconstriction in nonventilated lung areas contributes to differences in hemodynamic and gas exchange responses to inhalation of nitric oxide [see comments] Benzing A, et al. **Anesthesiology** 1997 Jun; 86(6):1254–61. Comment in: Anesthesiology 1997 Jun;86(6):1228–30.

Pharmacokinetic–pharmacodynamic modeling of the new steroid hypnotic eltanolone in healthy volunteers. Hering WJ, et al. **Anesthesiology** 1996 Dec;85(6):1290–9

Reduction by fentanyl of the Cp50 values of propofol and hemodynamic responses to various noxious stimuli [see comments] Kazama T, et al. **Anesthesiology** 1997 Aug; 87(2):213–27. Comment in: Anesthesiology 1997 Aug;87(2):201–2.

Oral clonidine premedication does not alter the efficacy of simulated intravenous test dose containing low dose epinephrine in awake volunteers. Tanaka M, et al. **Anesthesiology** 1997 Aug;87(2):285–8

Analysis of cardiovascular responses to PACAP–27, PACAP–38, and vasoactive intestinal polypeptide. Champion HC, et al. **Ann N Y Acad Sci** 1996 Dec 26; 805:429–41; discussion 442

Beta–adrenergic blocking agents in the treatment of congestive heart failure: mechanisms and clinical results. Doughty RN, et al. **Annu Rev Med** 1997;48:103–14 (70 ref.)

Cardiovascular effects of intravenous midazolam after open heart surgery. Shekerdemian L, et al. **Arch Dis Child** 1997 Jan;76(1):57–61

The effects of surfactant on haemodynamics in hyaline membrane disease. Skinner J. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F67–9

The effect of a nitric oxide donor and an inhibitor of nitric oxide synthase on blood flow and vascular resistance in feline submandibular, parotid and pancreatic glands. Lohinai Z, et al. **Arch Oral Biol** 1996 Jul;41(7):699–704

Synthesis of vinca alkaloids and related compounds. Part 84. Sulfonamide derivatives of some vinca alkaloids with cardiovascular activity. Moldvai I, et al. **Arch Pharm (Weinheim)** 1997 Jun;330(6):190–8

Effects of pneumoperitoneum with carbon dioxide, argon, or helium on hemodynamic and respiratory function. Junghans T, et al. **Arch Surg** 1997 Mar;132(3):272–8

Pharmacokinetic behaviour and cardiovascular effects of intravenously administered hypoxoside and rooperol. Coetzee JF, et al. **Arzneimittelforschung** 1996 Oct; 46(10):997–1000

Pharmacological profile of valsartan, a non–peptide angiotensin II type 1 receptor antagonist. 3rd communication: hemodynamic effects of valsartan in rats and dogs. Hayashi N, et al. **Arzneimittelforschung** 1997 May;47(5):620–5

General pharmacological properties of the new angiotensin II receptor antagonist (+/–)–1–(cyclohexyloxycarbonyloxy) ethyl 2–ethoxy–1–[[2'–(1H–tetrazol–5–yl) biphenyl–4–yl] methyl]–1 H–benzimidazole–7–carboxylate. Part II: Effect on cardiovascular system and renal functions. Kito G, et al. **Arzneimittelforschung** 1996 Jul;46(7):681–6

Effects of the new calcium antagonist efonidipine hydrochloride on resting and exercise hemodynamics in patients with stable effort angina. Saito T, et al. **Arzneimittelforschung** 1996 Sep;46(9):861–7

Cardiovascular and antiarrhythmic effects of the azulene–1–carboxamidine derivative N1,N1–dimethyl–N2–(2–pyridylmethyl)–5–isopropyl–3, 8–dimethylazulene–1–carboxamidine. Saitoh M, et al. **Arzneimittelforschung** 1997 Jul;47(7):810–5

Effects of the alpha–/beta–blocking agent carvedilol on hepatic and systemic hemodynamics in patients with cirrhosis and portal hypertension. Sekiyama T, et al. **Arzneimittelforschung** 1997 Apr;47(4):353–5

Haemodynamic effects of lercanidipine in anaesthetized open–chest dogs. Sironi G, et al. **Arzneimittelforschung** 1996 Mar;46(3):256–61

Pharmacological profile of valsartan, a non–peptide angiotensin II type 1 receptor antagonist. 5th communication: hemodynamic effects of valsartan in dog heart failure models. Yamamoto S, et al. **Arzneimittelforschung** 1997 May;47(5):630–4

An improved blood substitute. In vivo evaluation of its hemodynamic effects. Simoni J, et al. **ASAIO J** 1996 Sep–Oct;42(5):M773–82

Hemodynamic changes associated with reduction in total cholesterol by treatment with the HMG–CoA reductase inhibitor pravastatin. Muramatsu J, et al. **Atherosclerosis** 1997 Apr;130(1–2):179–82

A central cholinergic link in the cardiovascular effects of the benzodiazepine receptor partial inverse agonist FG 7142. Berntson GG, et al. **Behav Brain Res** 1996 Jan; 74(1–2):91–103

Effect of dopamine antagonism on the behavioral and hemodynamic responses to cocaine in piglets. Monitto CL, et al. **Biol Neonate** 1996;70(1):52–9

Effects of 8–epi–prostaglandin F2 alpha and U46,619 on pulmonary hemodynamics in piglets. Truog WE, et al. **Biol Neonate** 1997;71(5):306–16

Cardiovascular effects of YM430, a 1,4–dihydropyridine derivative with beta–adrenoceptor blocking activity, in dogs and rats. Shibasaki K, et al. **Biol Pharm Bull** 1997 Mar;20(3):230–6

Vanadate as factor of cardiovascular regulation by interactions with the catecholamine and nitric oxide systems. Carmignani M, et al. **Biol Trace Elem Res** 1996 Jan;51(1):1–12

Benidipine counteracts sodium–induced alterations in systemic and regional hemodynamics. Shimamoto H, et al.

Blood Press 1997 Jan;6(1):18–23

Central nervous and cardiovascular effects of i.v. infusions of ropivacaine, bupivacaine and placebo in volunteers. Knudsen K, et al. **Br J Anaesth** 1997 May;78(5):507–14

Effects of clonidine on the pituitary hormonal response to pelvic surgery. Lyons FM, et al. **Br J Anaesth** 1997 Feb; 78(2):134–7

Effects on haemodynamics and catecholamine release of xenon anaesthesia compared with total i.v. anaesthesia in the pig. Marx T, et al. **Br J Anaesth** 1997 Mar;78(3):326–7

Effects of rocuronium and vecuronium on intracranial pressure, mean arterial pressure and heart rate in neurosurgical patients [see comments] Schramm WM, et al. **Br J Anaesth** 1996 Nov;77(5):607–11. Comment in: Br J Anaesth 1997 Mar;78(3):342.

Effects of chronic beta-blockade on compensatory mechanisms during acute isovolaemic haemodilution in patients with coronary artery disease. Spahn DR, et al. **Br J Anaesth** 1997 Apr;78(4):381–5

Normovolaemic haemodilution attenuates cardiac depression induced by sodium bicarbonate in canine metabolic acidosis. Tanaka M, et al. **Br J Anaesth** 1996 Sep; 77(3):408–12

The effect of acute vs chronic treatment with beta-adrenoceptor blockade on exercise performance, haemodynamic and metabolic parameters in healthy men and women. Gullestad L, et al. **Br J Clin Pharmacol** 1996 Jan;41(1):57–67

Pharmacokinetics and haemodynamic effects of the angiotensin converting enzyme inhibitor cilazapril in hypertensive patients with normal and impaired renal function. Kloke HJ, et al. **Br J Clin Pharmacol** 1996 Nov; 42(5):615–20

Evaluation of partial beta-adrenoceptor agonist activity. Lipworth BJ, et al. **Br J Clin Pharmacol** 1997 Jan; 43(1):9–14 (32 ref.)

Effects of picotamide, an antiplatelet agent, on cardiovascular, events in 438 claudicant patients with diabetes: a retrospective analysis of the ADEP study. Milani M, et al. **Br J Clin Pharmacol** 1996 Dec;42(6):782–5

Effects of acute and chronic angiotensin converting enzyme inhibition by spirapril on cardiovascular regulation in essential hypertensive patients. Assessment by spectral analysis and haemodynamic measurements. Veerman DP, et al. **Br J Clin Pharmacol** 1996 Jan;41(1):49–56

Effects of age on cardiovascular responses to adrenaline in man. White M, et al. **Br J Clin Pharmacol** 1997 Apr; 43(4):407–14

Cardiovascular effects of a novel, potent and selective phosphodiesterase 5 inhibitor, DMPPO: in vitro and in vivo characterization. Delpy E, et al. **Br J Pharmacol** 1996 Jul; 118(6):1377–84

Systemic, pulmonary and coronary haemodynamic actions of the novel dopamine receptor agonist in awake pigs at rest and during treadmill exercise Z1046. Duncker DJ, et al. **Br J Pharmacol** 1997 Mar;120(6):1101–13

Lack of haemodynamic effects of nitric oxide on post-capillary pulmonary hypertension induced by acute sino-aortic denervation. Galinier M, et al. **Br J Pharmacol** 1997 Jan;120(1):7–12

Effects of glibenclamide on the regional haemodynamic actions of alpha-trinositol and its influence on responses to vasodilators in conscious rats. Gardiner SM, et al. **Br J Pharmacol** 1996 Feb;117(3):507–515

Influence of aminoguanidine and the endothelin antagonist, SB 209670, on the regional haemodynamic effects of endotoxaemia in conscious rats. Gardiner SM, et al. **Br J Pharmacol** 1996 Aug;118(7):1822–8

Cardiovascular effects of a low-dose combination of ramipril and felodipine in spontaneously hypertensive rats. Mervaala EM, et al. **Br J Pharmacol** 1997 Jun;121(3):503–10

Cocaine-induced microvascular vasoconstriction but differential systemic haemodynamic responses in Yucatan versus Yorkshire varieties of swine. Miao L, et al. **Br J Pharmacol** 1996 Feb;117(3):559–565

A study of tolerance to apomorphine. Montastruc JL, et al. **Br J Pharmacol** 1996 Mar;117(5):781–6

Direct cardiac and vascular actions of adrenomedullin in conscious sheep. Parkes DG, et al. **Br J Pharmacol** 1997 Mar;120(6):1179–85

Cardiovascular responses to intrathecal neuropeptide gamma in conscious rats: receptor characterization and mechanism of action. Poulat P, et al. **Br J Pharmacol** 1996 Jan; 117(2):250–7

Involvement of nitric oxide, but not prostaglandins, in the vascular sympathoinhibitory effects of losartan in the pithed spontaneously hypertensive rat. Richer C, et al. **Br J Pharmacol** 1996 Jan;117(2):315–24

Role of brainstem adenosine A1 receptors in the cardiovascular response to hypothalamic defence area stimulation in the anaesthetized rat. St Lambert JH, et al. **Br J Pharmacol** 1996 Jan;117(2):277–82

Assessment of the role of the renin-angiotensin system in cardiac contractility utilizing the renin inhibitor remikiren. van Kats JP, et al. **Br J Pharmacol** 1996 Mar;117(5):891–901

Cardiovascular effects produced by bradykinin microinjection into the nucleus tractus solitarii of anesthetized rats. Caligiorne SM, et al. **Brain Res** 1996 May 13;720(1-2):183–90

Cardiovascular effects of neurotensin microinjections into the nucleus of the solitary tract. Ciriello J, et al. **Brain Res** 1997 Feb 21;749(1):35–43

Cyclo(Gly-Gln) inhibits the cardiorespiratory depression produced by beta-endorphin and morphine. Unal CB, et al. **Brain Res** 1997 Jan 30;747(1):52–9

Evaluation of two different oxygen inspiratory fractions on the hemodynamic effects of N omega-nitro-L-arginine methyl ester in anesthetized dogs. Zappellini A, et al. **Braz J Med Biol Res** 1996 Jan;29(1):33–9

Chronic cocaine administration does not modify haemodynamic responses to isoflurane anaesthesia in sheep. Bernards CM, et al. **Can J Anaesth** 1997 Feb;44(2):202–7

Cardiac performance during unilateral lumbar spinal block after crystalloid preload. Casati A, et al. **Can J Anaesth** 1997 Jun;44(6):623–8

Should atropine be routine in children? [letter; comment] Guyton DC, et al. **Can J Anaesth** 1996 Jul;43(7):754–5. Comment on: Can J Anaesth 1995 Aug;42(8):724–9.

Haemodynamic comparison of sevoflurane and isoflurane anaesthesia in surgical patients. Inada T, et al. **Can J Anaesth** 1997 Feb;44(2):140–5

Dose-response to anaesthetic induction with sufentanil: haemodynamic and electroencephalographic effects. Sareen J, et al. **Can J Anaesth** 1997 Jan;44(1):19–25

Esmolol blunts the haemodynamic responses to tracheal intubation in treated hypertensive patients. Sharma S, et al. **Can J Anaesth** 1996 Aug;43(8):778–82

Response of large superficial dorsal hand veins to locally infused nitroglycerine in young, normal subjects. Lui AS, et al. **Can J Physiol Pharmacol** 1996 Sep;74(9):1034–8

Platelet-aggregation inhibition and hemodynamic effects of beraprost sodium, a new oral prostacyclin derivative: a study in healthy male subjects. Nony P, et al. **Can J Physiol Pharmacol** 1996 Aug;74(8):887–93

Comparison of hemodynamic and sympathoneural responses to adenosine and lower body negative pressure in man. Rongen GA, et al. **Can J Physiol Pharmacol** 1997 Feb; 75(2):128–34

Hematological and clinical responses to combined mitoxantrone and cyclophosphamide administration to normal cats: a correction [letter] Henry CJ. **Can Vet J** 1994 Dec;35(12):743

Effects of antihypertensive drugs on various aspects of renal function. de Leeuw PW, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):803–8 (27 ref.)

Systemic and regional hemodynamic effects of gallopamil in patients with essential hypertension. Ketelhut RG, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):39–42

Natriuretic effect of nitrendipine is preceded by transient systemic and renal hemodynamic effects. Krekels MM, et al. **Cardiovasc Drugs Ther** 1997 Mar;11(1):33–8

Acute hemodynamic effects and preload-dependent cardiovascular profile of the partial phosphodiesterase inhibitor nanterinone in patients with mild to moderate heart failure. Remme WJ, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):137–44

Acute hemodynamic effects of amlodipine 15 days after a myocardial infarction in normotensive patients treated with atenolol. Rocha P, et al. **Cardiovasc Drugs Ther** 1997 Apr; 11(2):139–47

Hemodynamic effects of intravenous elgodipine in coronary artery disease during rest and exercise, and basic pharmacokinetic parameters. Silke B, et al. **Cardiovasc Drugs Ther** 1996 Nov;10(5):573–80

Acute and short-term effects of the nonpeptide endothelin-1 receptor antagonist bosentan in humans. Sütsch G, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):717–25

Comparison of the hemodynamic effects of metoprolol and carvedilol in hypertensive patients. Weber K, et al. **Cardiovasc Drugs Ther** 1996 May;10(2):113–7

Different response of the rat left and right heart to norepinephrine. Irlbeck M, et al. **Cardiovasc Res** 1996 Jan; 31(1):157–62

Cardiopulmonary effects of endothelin-1 in man. Kiely DG, et al. **Cardiovasc Res** 1997 Feb;33(2):378–86

Haemodynamic correlates of early and delayed responses to sublingual administration of isosorbide dinitrate in migraine patients: a transcranial Doppler study. Bellantonio P, et al. **Cephalalgia** 1997 May;17(3):183–7

Atrial natriuretic peptide and brain natriuretic peptide in cor pulmonale. Hemodynamic and endocrine effects [see comments] Cargill RI, et al. **Chest** 1996 Nov;110(5):1220–5 . Comment in: Chest 1996 Nov;110(5):1136–8.

Selective activation of A3 adenosine receptors with N6-(3-iodobenzyl)adenosine-5'-N-methyluronamide protects against myocardial stunning and infarction without hemodynamic changes in conscious rabbits. Auchampach JA, et al. **Circ Res** 1997 Jun;80(6):800–9

Hemodynamic effects of L- and D-S-nitrosocysteine in the rat. Stereoselective S-nitrosothiol recognition sites. Davisson RL, et al. **Circ Res** 1996 Aug;79(2):256–62

Angiotensin-converting enzyme inhibition restores flow-dependent and cold pressor test-induced dilations in coronary arteries of hypertensive patients. Antony I, et al. **Circulation** 1996 Dec 15;94(12):3115–22

Increased tolerance of the chronically hypoxic immature heart to ischemia. Contribution of the KATP channel. Baker JE, et al. **Circulation** 1997 Mar 4;95(5):1278–85

Opposite effects of angiotensin AT1 and AT2 receptor antagonists on recovery of mechanical function after ischemia-reperfusion in isolated working rat hearts. Ford WR, et al. **Circulation** 1996 Dec 15;94(12):3087–9

Comparative hemodynamic, left ventricular functional, and antiadrenergic effects of chronic treatment with metoprolol versus carvedilol in the failing heart. Gilbert EM, et al. **Circulation** 1996 Dec 1;94(11):2817–25

Pharmacological stress thallium scintigraphy with 2-cyclohexylmethylidenehydrazinoadenosine (WRC-0470). A novel, short-acting adenosine A2A receptor agonist. Glover DK, et al. **Circulation** 1996 Oct 1;94(7):1726–32

Additional information on solving the riddle of phentolamine's action [letter; comment] Gould L. **Circulation** 1996 Aug 1;94(3):586. Comment on: Circulation 1995 Oct 1;92(7):1793–800.

Persistent inhibition of platelets during continuous nitroglycerin therapy despite hemodynamic tolerance. Hébert D, et al. **Circulation** 1997 Mar 4;95(5):1308–13

Hemodynamic and renal excretory effects of human brain natriuretic peptide infusion in patients with congestive heart failure. A double-blind, placebo-controlled, randomized crossover trial. Marcus LS, et al. **Circulation** 1996 Dec 15;94(12):3184–9

Equipotent antihypertensive agents variously affect pulsatile hemodynamics and regression of cardiac hypertrophy in spontaneously hypertensive rats. Mitchell GF, et al. **Circulation** 1996 Dec 1;94(11):2923–9

Early versus delayed angiotensin-converting enzyme inhibition in experimental chronic heart failure. Effects on survival, hemodynamics, and cardiovascular remodeling. Mulder P, et al. **Circulation** 1997 Mar 4;95(5):1314–9

Potent and long-lasting vasodilatory effects of adrenomedullin in humans. Comparisons between normal subjects and patients with chronic heart failure. Nakamura M, et al. **Circulation** 1997 Mar 4;95(5):1214–21

Hemodynamic effects of repetitive cocaine administration [letter; comment] Pagel PS, et al. **Circulation** 1997 Aug 5;96(3):1050. Comment on: Circulation 1996 Aug 1;94(3):534–41.

Beneficial hemodynamic and renal effects of adrenomedullin in an ovine model of heart failure. Rademaker MT, et al. **Circulation** 1997 Sep 16;96(6):1983–90

Blockade of nitric oxide synthesis reduces myocardial oxygen consumption in vivo. Sherman AJ, et al. **Circulation** 1997 Mar 4;95(5):1328–34

Sustained hemodynamic efficacy of therapy tailored to reduce filling pressures in survivors with advanced heart failure. Steimle AE, et al. **Circulation** 1997 Aug 19; 96(4):1165–72

Effects of dobutamine stimulation on myocardial blood flow, glucose metabolism, and wall motion in normal and dysfunctional myocardium [see comments] Sun KT, et al. **Circulation** 1996 Dec 15;94(12):3146–54. Comment in: Circulation 1996 Dec 15;94(12):3055–61.

Acute hemodynamic responses to inhaled nitric oxide in patients with limited scleroderma and isolated pulmonary hypertension. Williamson DJ, et al. **Circulation** 1996 Aug 1;94(3):477–82

Haemodynamic and hormonal effects of two different oral glucose loads in normal human subjects. Puvi-Rajasingham S, et al. **Clin Auton Res** 1997 Jun;7(3):155–61

Tissue variation of acute haemodynamic changes by NG-nitro-L-arginine in stroke-prone spontaneously hypertensive and Wistar-Kyoto rats. Higashino H, et al. **Clin Exp Pharmacol Physiol** 1997 Mar-Apr;24(3-4):249–55

Cardiovascular effects of oral hypoglycaemic drugs. Howes LG, et al. **Clin Exp Pharmacol Physiol** 1996 Mar; 23(3):201–6 (54 ref.)

Effects of sarafotoxin S6c on renal haemodynamics and urine formation in anaesthetized dogs. Matsuo G, et al. **Clin Exp Pharmacol Physiol** 1997 Jul;24(7):487–91

Prolonged systemic and regional haemodynamic effects of intracerebroventricular angiotensin II in conscious sheep. May CN. **Clin Exp Pharmacol Physiol** 1996 Oct-Nov; 23(10-11):878–84

Haemodynamic effects of NO-synthase inhibitors, NG-monomethyl-L-arginine, NG-nitro-L-arginine and NG-nitro-L-arginine methyl ester, and NO-donor, glyceryl trinitrate, in conscious SHRSP and WKY. Higashino H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S151–3

Comparative haemodynamic studies of endothelin-1, -2 and -3 on conscious SHRSP and WKY. Higashino H, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S199–201

Cardiovascular and renal protective effects of losartan in spontaneously hypertensive rats with diabetes mellitus. Kohzuki M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S366–7

Evolution of dose-related cardiovascular responses to L-glutamate microinjected into the nucleus tractus solitarii after removal of the nodose ganglion in rat. Talman WT, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S37–9

Cardiovascular effects of intracerebroventricularly administered growth hormone-releasing factor in spontaneously hypertensive rat. Watanabe M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S58–9

Cardiovascular adaptation to orthostatic stress during vasodilator therapy. Lipsitz LA, et al. **Clin Pharmacol Ther** 1996 Oct;60(4):461–71

Cerebral and ocular hemodynamic effects of sumatriptan in the nitroglycerin headache model. Schmetterer L, et al. **Clin Pharmacol Ther** 1996 Aug;60(2):199–205

Effects of antiglaucoma drugs on ocular hemodynamics in healthy volunteers. Schmetterer L, et al. **Clin Pharmacol Ther** 1997 May;61(5):583–95

Effects of pentoxifylline on hemodynamics and oxygenation

in septic and nonseptic patients. Bacher A, et al. **Crit Care Med** 1997 May;25(5):795–800

Effects of inhaled nitric oxide and nebulized prostacyclin on hypoxic pulmonary vasoconstriction in anesthetized sheep. Booke M, et al. **Crit Care Med** 1996 Nov;24(11):1841–8

N-acetylcysteine improves indocyanine green extraction and oxygen transport during hepatic dysfunction. Devlin J, et al. **Crit Care Med** 1997 Feb;25(2):236–42

The atrial natriuretic peptide receptor antagonist HS 142-1 improves cardiovascular filling and mean arterial pressure in a hyperdynamic ovine model of sepsis. Hinder F, et al. **Crit Care Med** 1997 May;25(5):820–6

Relationship between hemodynamic and vital support measures and pharmacokinetic variability of amikacin in critically ill patients with sepsis. Lugo G, et al. **Crit Care Med** 1997 May;25(5):806–11

Dobutamine improves gastrointestinal mucosal blood flow in a porcine model of endotoxic shock [see comments] Nevière R, et al. **Crit Care Med** 1997 Aug;25(8):1371–7. Comment in: Crit Care Med 1997 Aug;25(8):1266–7.

Hemodynamic effects of intravenous somatostatin administered in the postoperative period. Petru A, et al. **Crit Care Med** 1997 Sep;25(9):1468–71

Cardiovascular function during the postresuscitation phase after cardiac arrest in pigs: a comparison of epinephrine versus vasopressin. Prengel AW, et al. **Crit Care Med** 1996 Dec;24(12):2014–9

Initial evaluation of diaspirin cross-linked hemoglobin (DCLHb) as a vasopressor in critically ill patients. Reah G, et al. **Crit Care Med** 1997 Sep;25(9):1480–8

N-acetylcysteine attenuates endotoxin-induced leukocyte-endothelial cell adhesion and macromolecular leakage in vivo. Schmidt H, et al. **Crit Care Med** 1997 May; 25(5):858–63

Scorpion venom leads to gastrointestinal ischemia despite increased oxygen delivery in pigs. Sofer S, et al. **Crit Care Med** 1997 May;25(5):834–40

Hemodynamic effects of carcinine in the anesthetized, instrumented, open-chest rat. Steinberg C, et al. **Crit Care Med** 1996 Dec;24(12):2042–5

The endothelin receptor antagonist, bosentan, in combination with the cyclooxygenase inhibitor, diclofenac, counteracts pulmonary hypertension in porcine endotoxin shock. Wanecek M, et al. **Crit Care Med** 1997 May;25(5):848–57

Cardiovascular, metabolic, and hormonal responses to noradrenaline in diabetic patients with autonomic neuropathy. Dejgaard A, et al. **Diabet Med** 1996 Nov; 13(11):983–9

Discordant effects of guanidines on renal structure and function and on regional vascular dysfunction and collagen changes in diabetic rats. Nyengaard JR, et al. **Diabetes** 1997 Jan;46(1):94–106

Hemodynamic actions of insulin in rat skeletal muscle: evidence for capillary recruitment. Rattigan S, et al. **Diabetes** 1997 Sep;46(9):1381–8

Metformin improves hemodynamic and rheological responses to L-arginine in NIDDM patients. Marfella R, et al. **Diabetes Care** 1996 Sep;19(9):934–9

Comparative effects of glibenclamide and metformin on ambulatory blood pressure and cardiovascular reactivity in NIDDM. Sundaresan P, et al. **Diabetes Care** 1997 May; 20(5):692–7

Haemodynamic and other effects of sulphonylurea drugs on the heart. Végh A, et al. **Diabetes Res Clin Pract** 1996 Jul;31 Suppl:S43–53 (75 ref.)

Effects of insulin and lipid emulsion on renal haemodynamics and renal sodium handling in IDDM patients. Pelikánová T, et al. **Diabetologia** 1996 Sep;39(9):1074–82

Systemic and hepatic hemodynamics in hepatosplenic Manson's schistosomiasis with and without propranolol. Mies S, et al. **Dig Dis Sci** 1997 Apr;42(4):751–61

Hemodynamic effects of N-acetylamrinone in a porcine model of group B streptococcal sepsis. Allen EM, et al. **Drug Metab Dispos** 1996 Sep;24(9):1028–31

The haemodynamic effects of milrinone HCl in halothane anaesthetised horses. Muir WW. **Equine Vet J Suppl** 1995 Sep;(19):108–13

Management of atrial fibrillation in the setting of heart failure. Crijns HJ, et al. **Eur Heart J** 1997 May;18 Suppl C:C45–9 (35 ref.)

The haemodynamic effect of prophylactic peri-operative dopexamine in coronary artery bypass patients. Hurley J, et al. **Eur Heart J** 1995 Nov;16(11):1705–9

Effect of dopexamine hydrochloride on renal vascular resistance index and haemodynamic responses following coronary artery bypass graft surgery. Sherry E, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):184–9

Cardiovascular and metabolic responses to clonidine and midazolam premedication. Taittonen M, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):190–6

Administration of sufentanil and nitrous oxide blunts cardiovascular effects of desflurane but does not prevent an increase in middle cerebral artery blood flow velocity. Tonner PH, et al. **Eur J Anaesthesiol** 1997 Jul;14(4):389–96

Pharmacological manipulation of cardiovascular responses to lower body negative pressure. Perko G, et al. **Eur J Appl Physiol** 1996;73(5):459–64

Inhaled nitric oxide after lung ischemia reperfusion; effect on hemodynamics and oxygen free radical scavenger system. Fukahara K, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):343–9

The effects of hyperinsulinaemia on myocardial mass, blood pressure regulation and central haemodynamics in rats. Holmäng A, et al. **Eur J Clin Invest** 1996 Nov;26(11):973–8

Nucleoside transport inhibition by draflazine in unstable coronary disease. Andersen K, et al. **Eur J Clin Pharmacol** 1996;51(1):7–13

Cardiovascular effects of different infusion rates of sufentanil in patients undergoing coronary surgery. Borenstein M, et al. **Eur J Clin Pharmacol** 1997;51(5):359–66

Calcium antagonist treatment and cardiovascular responses to a cold pressor test at high altitude. Hankø E, et al. **Eur J Clin Pharmacol** 1996;51(3–4):265–7

Haemodynamic effects and pharmacokinetics of oral d- and l-nebivolol in hypertensive patients. Himmelmann A, et al. **Eur J Clin Pharmacol** 1996;51(3–4):259–64

Neutral endopeptidase 24.11 inhibition may not exhibit beneficial haemodynamic effects in patients with congestive heart failure. Kentsch M, et al. **Eur J Clin Pharmacol** 1996; 51(3–4):269–72

Efficacy of an ultrashort-acting beta-adrenoceptor blocker (ONO-1101) in attenuating cardiovascular responses to endotracheal intubation. Kitamura A, et al. **Eur J Clin Pharmacol** 1997;51(6):467–71

Adaptive changes in the acute haemodynamic effects of cilazapril during chronic treatment. Comparison with long-term clinical effect. Larsen J, et al. **Eur J Clin Pharmacol** 1996;50(6):433–41

Effects of grapefruit juice ingestion—pharmacokinetics and haemodynamics of intravenously and orally administered felodipine in healthy men. Lundahl J, et al. **Eur J Clin Pharmacol** 1997;52(2):139–45

Placental transfer and maternal and fetal hemodynamic effects of ketanserin in the pregnant ewe. Schneider TJ, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep; 68(1–2):179–84

Effects and side effects of mydriatic eyedrops in neonates. Oğüt MS, et al. **Eur J Ophthalmol** 1996 Apr–Jun;6(2):192–6

The impact of surfactant replacement therapy on cerebral and systemic circulation and lung function. Schipper JA, et al. **Eur J Pediatr** 1997 Mar;156(3):224–7

Increases in inotropic state without change in heart rate: combined use of dobutamine and zatebradine in conscious dogs. Hettrick DA, et al. **Eur J Pharmacol** 1996 Dec 5; 316(2–3):237–44

Nitrotyrosine attenuates the hemodynamic effects of adrenoceptor agonists in vivo: relevance to the pathophysiology of peroxynitrite. Kooy NW, et al. **Eur J Pharmacol** 1996 Aug 29;310(2–3):155–61

The peroxynitrite product 3-nitro-L-tyrosine attenuates the hemodynamic responses to angiotensin II in vivo. Kooy NW, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):165–70

Comparison of the cardiovascular effects of two novel superoxide dismutase mimetics, SC-55858 and SC-54417, in conscious dogs. Lowe D, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):81–6

MK-801 and memantine inhibit a centrally induced increase in myocardial oxygen demand in rabbits. Monassier L, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):109–13

Effects of adenosine A2A receptor agonist, CGS 21680, on blood pressure, cardiac index and arterial conductance in anaesthetized rats. Nekooeian AA, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):163–9

Effects of endothelin-1 on arterial and venous resistances in anaesthetized rats. Palacios B, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):183–8

Cocaine increases circulating levels of atrial natriuretic peptide and pro atrial natriuretic peptide N-terminal fragment in conscious rats. Pelkonen M, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):55–62

Haemodynamic and hormonal responses to long-term inhibition of nitric oxide synthesis in rats with portal hypertension. Pilette C, et al. **Eur J Pharmacol** 1996 Sep 19;312(1):63–8

'Quality of life' after therapy in rats with myocardial infarction: dissociation between hemodynamic and behavioral improvement. Schoemaker RG, et al. **Eur J Pharmacol** 1996 Feb 29;298(1):17–25

L-733,060, a novel tachykinin NK1 receptor antagonist; effects in [Ca2+]i mobilisation, cardiovascular and dural extravasation assays. Seabrook GR, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):129–35

Cardiovascular effects produced by R-(+)-8-hydroxy-2-(di-n-propylamino) tetralin in the preoptic area of conscious rats. Szabó A, et al. **Eur J Pharmacol** 1996 Nov 14;315(2):187–94

Cardiovascular and respiratory actions of U50,488H in the unanaesthetized ovine foetus. Szeto HH, et al. **Eur J Pharmacol** 1996 Feb 15;297(1–2):77–82

Structure-activity analysis for the effects of gamma-MSH/ACTH-like peptides on cerebral hemodynamics in rats. Van Bergen P, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):357–68

Selective vasoconstriction by alniditan in the carotid vascular bed of anaesthetized dogs. Van de Water A, et al. **Eur J Pharmacol** 1996 Mar 28;299(1–3):127–37

Beneficial effects of dantrolene on lipopolysaccharide-induced haemodynamic alterations in rats and mortality in mice. Wu CC, et al. **Eur J Pharmacol** 1997 May 26;327(1):17–24

New non-ionic contrast: effects on the cardiovascular system. Pagny JY, et al. **Eur J Radiol** 1996 Nov;23 Suppl 1:S2–5 (23 ref.)

Platelet activating factor antagonism improves cardiovascular function in non-hypotensive sepsis in pigs. Abu-Zidan FM, et al. **Eur J Surg** 1996 Jun;162(6):499–504

Behavioral, neuroendocrine and biochemical effects of different doses of 5-HTP in panic disorder. van Vliet IM, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):103–10

Lisuride and bromocryptine in L-Dopa stable-responder parkinsonian patients: a comparative, double-blind evaluation of cardiopressor and neurochemical effects. Micieli G, et al. **Funct Neurol** 1996 Nov–Dec;11(6):317–25

The myocardial lesions produced by the potassium channel opener aprikalim in monkeys and rats are prevented by blockade of cardiac beta-adrenoceptors. Belin V, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):259–67

Cardiovascular effects of fumonisins in swine. Smith GW, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):169–72

Systemic, pulmonary, brachial, renal and hepato-splanchnic hemodynamic effects of spirapril in severe congestive heart failure. Bellissant E, et al. **Fundam Clin Pharmacol** 1996; 10(2):127–35

Influence of indomethacin on the haemodynamic effects of lipopolysaccharide in rats. Fatehi-Hassanabad Z, et al. **Fundam Clin Pharmacol** 1996;10(3):258–63

Hemodynamic and neurohormonal effects of flosequinan in patients with heart failure. Isnard R, et al. **Fundam Clin Pharmacol** 1997;11(1):83–9

Differential effects of nitric oxide synthase inhibitors on endotoxin-induced liver damage in rats. Vos TA, et al. **Gastroenterology** 1997 Oct;113(4):1323–33

Cardiac and hemodynamic effects of TZC-5665, a novel pyridazinone derivative, and its metabolite in humans and dogs. Araki S, et al. **Gen Pharmacol** 1997 Apr;28(4):545–53

Calcitonin gene-related peptide: vasoactive effects and potential therapeutic role. Brain SD, et al. **Gen Pharmacol** 1996 Jun;27(4):607–11 (36 ref.)

Effects of enalapril in rats with pressure overload cardiac hypertrophy. Di Paola Eugenio D, et al. **Gen Pharmacol** 1997 Apr;28(4):531–3

Effects of adenosine infusion on renal function, plasma ANP and ADH concentrations and central hemodynamics in anesthetized pigs. Elias AN, et al. **Gen Pharmacol** 1997 Mar;28(3):429–33

General pharmacology of meloxicam—Part II: Effects on blood pressure, blood flow, heart rate, ECG, respiratory minute volume and interactions with paracetamol, pirenzepine, chlorthalidone, phenprocoumon and tolbutamide. Engelhardt G, et al. **Gen Pharmacol** 1996 Jun; 27(4):679–88

Modification of systemic and regional circulatory effects of intracerebroventricular administration of endothelin-1 by propranolol in anesthetized rats. Kumar A, et al. **Gen Pharmacol** 1996 Sep;27(6):1025–33

Hemodynamic profile of activation of histamine H3 receptors by R-alpha-methylhistamine in the guinea pig. McLeod RL, et al. **Gen Pharmacol** 1996 Sep;27(6):1001–7

Brain alpha 1-adrenoceptor in the cardiovascular responses to BHT-920 and phenylephrine. Ricci D, et al. **Gen Pharmacol** 1996 Mar;27(2):299–304

Cholecystokinin (CCK) and C-terminal fragments of CCK: effects of CCK-33, CCK-8 and CCK-4 in the cardiovascular system of diabetic rats. Wiśniewska RJ, et al. **Gen Pharmacol** 1996 Mar;27(2):399–405

Acute effect of low dose theophylline on the circulatory disturbances of cirrhosis. Forrest EH, et al. **Gut** 1997 Jan; 40(1):139–44

Hemodynamic evaluation of the addition of isosorbide-5-mononitrate to nadolol in cirrhotic patients with insufficient response to the beta-blocker alone. Merkel C, et al. **Hepatology** 1997 Jul;26(1):34–9

Effect of rapid intra-atrial saline infusion on atrial pressures and atrial natriuretic hormone secretion. Shenker Y, et al. **Horm Metab Res** 1997 Jan;29(1):33–7

Hypertension in obese Zucker rats. Role of angiotensin II and adrenergic activity. Alonso-Galicia M, et al. **Hypertension** 1996 Dec;28(6):1047–54

Effect of an endothelin antagonist on hemodynamic responses to angiotensin II. Balakrishnan SM, et al. **Hypertension** 1996 Nov;28(5):806–9

N-acetylcysteine does not influence the activity of endothelium-derived relaxing factor in vivo. Creager MA, et al. **Hypertension** 1997 Feb;29(2):668–72

Nifedipine attenuates systemic and renal vasoconstriction during nitric oxide inhibition in humans. Dijkhorst-Oei LT, et al. **Hypertension** 1997 May;29(5):1192–8

Hemodynamics of chemoreflex activation in unanesthetized rats. Franchini KG, et al. **Hypertension** 1997 Sep;30(3 Pt 2):699–703

Contrasting autonomic and hemodynamic effects of insulin in healthy elderly versus young subjects. Hausberg M, et al. **Hypertension** 1997 Mar;29(3):700–5

Brain "ouabain" and angiotensin II in salt-sensitive hypertension in spontaneously hypertensive rats. Huang BS, et al. **Hypertension** 1996 Dec;28(6):1005–12

Synthesis and secretion of natriuretic peptides in the hypertensive TGR(mREN-2)27 transgenic rat. Marttila M, et al. **Hypertension** 1996 Dec;28(6):995–1004

Chronic renal neuroadrenergic hypertension is associated with increased renal norepinephrine sensitivity and volume contraction. Plato CF, et al. **Hypertension** 1996 Dec; 28(6):1034–40

Insulin and insulin-like growth factor in normal and pathological cardiovascular physiology [clinical conference] Sowers JR. **Hypertension** 1997 Mar;29(3):691–9

(157 ref.)
Effects of alcohol on sympathetic activity, hemodynamics, and chemoreflex sensitivity. van de Borne P, et al. **Hypertension** 1997 Jun;29(6):1278–83
Hemodynamic and metabolic effects of intravenous formyl–methionyl–leucyl–phenylalanine (FMLP) in rabbits. Jonsson M, et al. **In Vivo** 1997 Mar–Apr;11(2):133–9
Furosemide: much more than a diuretic. Singhi SC. **Indian Pediatr** 1996 Oct;33(10):886–7
Differentiation of inodilatory responses by non–invasive measures of cardiovascular performance in healthy man. De Mey C, et al. **Int J Clin Pharmacol Ther** 1996 Dec; 34(12):525–32
Effect of brain acetylcholine depletion on bicuculline–induced cardiovascular and locomotor responses. Tellioğlu T, et al. **Int J Neurosci** 1997 Feb; 89(3–4):143–52
Acute cardiovascular effects of intravenous cyclosporine. Navarro JF, et al. **Int Urol Nephrol** 1996;28(4):575–81
Nitric oxide synthase inhibition by L–NAME in leukocytopenic patients with severe septic shock. Kiehl MG, et al. **Intensive Care Med** 1997 May;23(5):561–6
Comparison of norepinephrine and dobutamine to epinephrine for hemodynamics, lactate metabolism, and gastric tonometric variables in septic shock: a prospective, randomized study. Levy B, et al. **Intensive Care Med** 1997 Mar;23(3):282–7
Influence of enoximone on systemic and splanchnic oxygen utilization and endotoxin release following cardiopulmonary bypass. Loick HM, et al. **Intensive Care Med** 1997 Mar;23(3):267–75
Response to nitric oxide inhalation in early acute lung injury. Lundin S, et al. **Intensive Care Med** 1996 Aug;22(8):728–34
Prostacyclin (PGI2): new aspects of an old substance in the treatment of critically ill patients. Scheeren T, et al. **Intensive Care Med** 1997 Feb;23(2):146–58 (103 ref.)
Gadopentetate dimeglumine and iodinated contrast media. Hemodynamic side effects after bolus injections in pigs. Kuhtz–Buschbeck JP, et al. **Invest Radiol** 1997 Feb; 32(2):111–9
Effect of bolus milrinone on hemodynamic variables and pulmonary vascular resistance in patients with severe left ventricular dysfunction: a rapid test for reversibility of pulmonary hypertension. Givertz MM, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1775–80
Effect of inhaled nitric oxide on normal human left ventricular function. Hayward CS, et al. **J Am Coll Cardiol** 1997 Jul;30(1):49–56
Hemodynamic and clinical effects of oral levodopa in children with congestive heart failure. Mendelsohn AM, et al. **J Am Coll Cardiol** 1997 Jul;30(1):237–42
Hemodynamic effects of epinephrine, bicarbonate and calcium in the early postnatal period in a lamb model of single–ventricle physiology created in utero. Reddy VM, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1877–83
Hemodynamic characteristics, myocardial kinetics and microvascular rheology of FS–069, a second–generation echocardiographic contrast agent capable of producing myocardial opacification from a venous injection. Skyba DM, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1292–300
Does digoxin provide additional hemodynamic and autonomic benefit at higher doses in patients with mild to moderate heart failure and normal sinus rhythm? Slatton ML, et al. **J Am Coll Cardiol** 1997 May;29(6):1206–13
Pharmacologic myocardial protection during percutaneous transluminal coronary angioplasty by intracoronary application of dipyridamole: impact on hemodynamic function and left ventricular performance. Strauer BE, et al. **J Am Coll Cardiol** 1996 Nov 1;28(5):1119–26
Hemodynamic effects of microbubble echo contrast. Schwarz KQ, et al. **J Am Soc Echocardiogr** 1996 Nov–Dec; 9(6):795–804
Abnormal glomerular response to atrial natriuretic peptide in rats with aortocaval fistulas. Norling LL, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1038–44
Central and regional hemodynamic effects during infusion of Big endothelin–1 in healthy humans. Ahlborg G, et al. **J Appl Physiol** 1996 Jun;80(6):1921–7
Effect of nitric oxide synthase inhibition on cardiorespiratory responses in the conscious rat. Gozal D, et al. **J Appl Physiol** 1996 Nov;81(5):2068–77
Cardiovascular responses to beta–stimulation with isoproterenol in deep hypothermia. Lauri T. **J Appl Physiol** 1996 Aug;81(2):573–7
Angiotensin–converting enzyme inhibition and the norepinephrine spillover response to dynamic exercise. Leuenberger U, et al. **J Appl Physiol** 1996 Sep; 81(3):1138–42
Thrombin increases fluid flux in isolated rat lungs by a hemodynamic and not a permeability mechanism. Waypa GB, et al. **J Appl Physiol** 1996 Apr;80(4):1197–204
Changes in cardiovascular responsiveness to dopexamine and beta 1– and beta 2–adrenoceptor function after the chronic treatment of beta–adrenoceptor antagonists and agonists in anaesthetized dogs. Chang DH, et al. **J Auton Pharmacol** 1996 Oct;16(5):269–79
Effects of the angiotensin AT1 receptor antagonist GR138950 on haemodynamic function in dogs. Hunt AA, et al. **J Auton Pharmacol** 1997 Feb;17(1):1–11
Cocaine toxicity and isoflurane anesthesia: hemodynamic, myocardial metabolic, and regional blood flow effects in swine. Boylan JF, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):772–7
Hemodynamic instability and excessive vasoconstrictor use during cardiopulmonary bypass [letter] Charbonnet CJ, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):683
Propofol–alfentanil versus fentanyl–midazolam in coronary artery surgery. Collard E, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):869–76
Evaluation of the effects of mivacurium chloride on hemodynamics and left ventricular function in patients with coronary artery disease undergoing abdominal aortic surgery. Goossens S, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):62–6
Effects of prostacyclin on myocardial hemodynamics and metabolism after coronary artery bypass grafting. Kieler–Jensen N, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):741–7
Comparative effects of plain and epinephrine–containing bupivacaine on the hemodynamic response to cervical plexus anesthesia in patients undergoing carotid endarterectomy. McGlade DP, et al. **J Cardiothorac Vasc Anesth** 1996 Aug;10(5):593–7
Effects of dobutamine and enoximone on transmitral and pulmonary venous flow characteristics in patients with left ventricular dysfunction after coronary artery bypass grafting. Vroom MB, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):756–63
Effects of a new cardiotonic phosphodiesterase III inhibitor, olprinone, on cardiohemodynamics and plasma hormones in conscious pigs with heart failure. Adachi H, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):763–71
The cardiac and vascular effects of lacidipine. Agabiti–Rosei E. **J Cardiovasc Pharmacol** 1995;25 Suppl 3:S1–5 (17 ref.)
Hemodynamic response to adenosine infusion before and after coronary artery bypass surgery. Anderson RE, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):331–6
Therapeutic effects of nitric oxide–donor isosorbide dinitrate on atherosclerosis–induced alterations in hemodynamics and arterial viscoelasticity are independent of the wall elastic component. Augier T, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):752–9
Pharmacokinetic–pharmacodynamic model relating spiraprilat plasma concentrations to systemic and regional hemodynamic effects in congestive heart failure. Bellissant E, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):253–60
Pharmacokinetic–pharmacodynamic model relating lisinopril plasma concentrations to regional hemodynamic effects in healthy volunteers. Bellissant E, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):470–8
Sustained antiplatelet properties of nitroglycerin during hemodynamic tolerance in rats. Booth BP, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):432–8
Reversal by L– and D–enantiomers of NG–nitro–arginine of endotoxin–induced hypotension and vascular hyporesponsiveness. Cheng X, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):75–81
Cardiovascular and renal actions of the endothelin(B) receptor in pigs. Cirino M, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):704–12
Cyclooxygenase inhibition and vascular reactivity in a rat model of hyperdynamic sepsis. Fox GA, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):30–5
Quinidine pharmacodynamics in normal and isoproterenol–induced hypertrophied blood–perfused working rabbit hearts. Gillis AM, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):916–26
Combined effects of caffeine and nicotine on cardiovascular hemodynamics in canine model. Jain AC, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):574–9
Effects of a new angiotensin–converting enzyme inhibitor (idrapril) in rats with left ventricular dysfunction after myocardial infarction. Jeremic G, et al. **J Cardiovasc Pharmacol** 1996 Mar;27(3):347–54
Central and peripheral effects of asymmetric dimethylarginine, an endogenous nitric oxide synthetase inhibitor. Jin JS, et al. **J Cardiovasc Pharmacol** 1996 Sep; 28(3):439–46
Comparison of hemodynamic effects of nitric oxide (NO) donors with different NO–releasing properties in rats. Kita Y, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):223–8
Captopril and norepinephrine–induced hypertrophy and haemodynamics in rats. Laycock SK, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):667–72
Levosimendan potentiates the inotropic actions of dopamine in conscious dogs. McGough MF, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):36–47
Mechanisms of the cardiovascular response to posterior hypothalamic nucleus administration of carbachol. Martin JR. **J Cardiovasc Pharmacol** 1996 Jun;27(6):891–900
Hemodynamic effects of isoprostanes (8–iso–prostaglandin F2alpha and E2) in isolated guinea pig hearts. Möbert J, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):789–94
Coronary effects of diadenosine tetraphosphate resemble those of adenosine in anesthetized pigs: involvement of ATP–sensitive potassium channels. Nakae I, et al. **J Cardiovasc Pharmacol** 1996 Jul;28(1):124–33
Potent antifibrillatory effect of combined blockade of calcium channels and 5–HT2 receptors with nexopamil during myocardial ischemia and reperfusion in dogs: comparison to diltiazem. Nearing BD, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):777–87
Hemodynamic changes, plasma catecholamine responses, and echocardiographically detected contractile reserve during two different dobutamine–infusion protocols. Poldermans D, et al. **J Cardiovasc Pharmacol** 1997 Jun;29(6):808–13
Safety and pharmacologic activity of a new nitrate ester, ITF 296, after intravenous administration in healthy volunteers. Sardina M, et al. **J Cardiovasc Pharmacol** 1995; 26 Suppl 4:S72–9
Hemodynamic and humoral effects at rest and after head–up tilt tests during 24–hour infusion of a new nitrate ester, ITF 296, compared with ISDN and placebo in healthy volunteers: a double–blind, randomized, within–subject study. Sardina M, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 4:S80–90
Effects of angiotensin II receptor blockade during exercise: comparison of losartan and saralasin. Symons JD, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):223–31
Hemodynamic and autonomic effects of intravenous saterinone in patients with chronic heart failure. Szabó BM, et al. **J Cardiovasc Pharmacol** 1997 May;29(5):618–23
Hemodynamic characterization of a novel neuropeptide Y receptor antagonist. Tadepalli AS, et al. **J Cardiovasc Pharmacol** 1996 May;27(5):712–8
Effect of the new nitrate ester ITF 296 on coronary and systemic hemodynamics in the conscious dog: comparison with nitroglycerin and nicorandil. Ueno A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 4:S13–20
Hemodynamic effects of calcium–sensitizing agents. Vegh A, et al. **J Cardiovasc Pharmacol** 1995;26 Suppl 1:S20–31 (98 ref.)
Cardiovascular effects of (–)–11–OH–delta 8–tetrahydrocannabinol–dimethylheptyl in rats. Vidrio H, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):332–6
Effects of vascular endothelial growth factor on hemodynamics and cardiac performance. Yang R, et al. **J Cardiovasc Pharmacol** 1996 Jun;27(6):838–44
Hemodynamic characterization of YM435, a novel dopamine DA1 receptor agonist, in anesthetized dogs. Yatsu T, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):382–8
Effects of intravenous lidocaine and/or esmolol on hemodynamic responses to laryngoscopy and intubation: a double–blind, controlled clinical trial. Kindler CH, et al. **J Clin Anesth** 1996 Sep;8(6):491–6
Hemodynamic effects of intrathecal sufentanil compared with epidural bupivacaine in laboring parturients. Pham LH, et al. **J Clin Anesth** 1996 Sep;8(6):497–501; discussion 502–3
Effects of intravenous and oral clonidine on hemodynamic and plasma–catecholamine response due to endotracheal intubation. Zalunardo MP, et al. **J Clin Anesth** 1997 Mar; 9(2):143–7
Hemodynamic effects of parathyroid hormone–related peptide–(1–34) in humans. Wolzt M, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2548–51
The vascular effects of L–Arginine in humans. The role of endogenous insulin. Giugliano D, et al. **J Clin Invest** 1997 Feb 1;99(3):433–8
Effects of yohimbine on autonomic measures are determined by individual values for area under the concentration–time curve. Grasing K, et al. **J Clin Pharmacol** 1996 Sep; 36(9):814–22
Cardiovascular effects of anabolic steroids in weight–trained subjects. Palatini P, et al. **J Clin Pharmacol** 1996 Dec; 36(12):1132–40
Continuous measurement of hemodynamic alterations during pharmacologic cardiovascular stress using automated impedance cardiography. Scherhag AW, et al. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):21S–28S
Acute tolerance to subjective but not cardiovascular effects of d–amphetamine in normal, healthy men. Brauer LH, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):72–6
Nitric oxide in brain death related cardiovascular dysfunction. Bittner HB, et al. **J Crit Care** 1996 Mar; 11(1):43–9
Hemodynamic effects of pyruvate infusion in dogs. Romand JA, et al. **J Crit Care** 1995 Dec;10(4):165–73
Effects of carbon dioxide pneumoperitoneum in pigs with impaired pulmonary function. Dörsam J, et al. **J Endourol** 1997 Jun;11(3):185–9
Studies on the immunomodulatory effects of Ashwagandha. Ziauddin M, et al. **J Ethnopharmacol** 1996 Feb;50(2):69–76
Haemodynamic effects of combined treatment with molsidomine and propranolol on portal hypertension in conscious and unrestrained cirrhotic rats. Hori N, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):985–92
Haemodynamic effects of chronic tetrandrine treatment in portal hypertensive rats. Huang YT, et al. **J Gastroenterol Hepatol** 1997 Aug;12(8):585–9
Renal and haemodynamic responses to a novel kappa opioid receptor agonist, niravoline (RU 51,599), in rats with cirrhosis. Moreau R, et al. **J Gastroenterol Hepatol** 1996 Sep;11(9):857–63
Inhaled nitric oxide: effects on hemodynamics, myocardial contractility, and regional blood flow in dogs with mechanically induced pulmonary artery hypertension. Girard C, et al. **J Heart Lung Transplant** 1996 Jul; 15(7):700–8
Effects of chronic therapy with nadolol on portal hemodynamics and on splanchnic impedance indices using Doppler sonography: comparison between acute and chronic effects. Bolognesi M, et al. **J Hepatol** 1997 Feb; 26(2):305–11
Time profile of the haemodynamic effects of terlipressin in portal hypertension. Escorsell A, et al. **J Hepatol** 1997 Mar; 26(3):621–7

Aminoguanidine corrects hyperdynamic circulation without ameliorating portal hypertension and portal hypertensive gastropathy in anesthetized portal hypertensive rats. Lee FY, et al. **J Hepatol** 1997 Mar;26(3):687–93

Effect of octreotide on total effective vascular compliance in patients with posthepatitic cirrhosis. Lin HC, et al. **J Hepatol** 1996 Jan;24(1):81–7

Effect of oxygen inhalation on systemic, central, and splanchnic haemodynamics in cirrhosis. Møller S, et al. **J Hepatol** 1996 Sep;25(3):316–28

Effect of octreotide on systemic, central, and splanchnic haemodynamics in cirrhosis. Møller S, et al. **J Hepatol** 1997 May;26(5):1026–33

Effects of simvastatin, pentoxifylline and spironolactone on hepatic fibrosis and portal hypertension in rats with bile duct ligation. Oberti F, et al. **J Hepatol** 1997 Jun; 26(6):1363–71

Acute effects of propylthiouracil on hemodynamics and oxygen content in patients with alcoholic cirrhosis. Sogni P, et al. **J Hepatol** 1997 Mar;26(3):628–33

Correlation between peripheral hemodynamic changes and left ventricular diastolic function in hypertensive patients treated with urapidil. Arosio E, et al. **J Hum Hypertens** 1996 Mar;10(3):171–6

Hemodynamic and 24–h blood pressure profile of amlodipine monotherapy. Ibrahim MM, et al. **J Hum Hypertens** 1996 Jul;10(7):489–94

Heterogeneous vascular response to vasopressin: radial artery versus forearm blood flow. Hayoz D, et al. **J Hypertens** 1997 Jan;15(1):35–41

Hydrochlorothiazide exerts no direct vasoactivity in the human forearm. Pickkers P, et al. **J Hypertens** 1995 Dec; 13(12 Pt 2):1833–6

Fixed–dose combination of perindopril with indapamide in spontaneously hypertensive rats: haemodynamic, biological and structural effects. Richard V, et al. **J Hypertens** 1996 Dec;14(12):1447–54

Centrally acting antihypertensives: a renaissance of interest. Mechanisms and haemodynamics. van Zwieten PA. **J Hypertens Suppl** 1997 Jan;15(1):S3–8 (56 ref.)

Effects of polymerization on the hypertensive action of diaspirin cross–linked hemoglobin in rats [see comments] Abassi Z, et al. **J Lab Clin Med** 1997 Jun;129(6):603–10. Comment in: J Lab Clin Med 1997 Jun;129(6):580–3.

Nisoldipine attenuates myocardial stunning induced by multiple coronary occlusions in conscious pigs and this effect is independent of changes in hemodynamics or coronary blood flow. Park SW, et al. **J Mol Cell Cardiol** 1996 Apr;28(4):655–66

ACTH–suppressive and vasodilator actions of adrenomedullin in conscious sheep. Parkes DG, et al. **J Neuroendocrinol** 1995 Dec;7(12):923–9

A comparison of the hemodynamic and ventilatory effects of abdominal insufflation with helium and carbon dioxide in young swine. Liem TK, et al. **J Pediatr Surg** 1996 Feb; 31(2):297–300

Pharmacokinetics of continuous infusion fentanyl in newborns. Santeiro ML, et al. **J Perinatol** 1997 Mar–Apr; 17(2):135–9

The in–vivo cardiovascular effects of a putative class III anti–arrhythmic drug, AM 92016. Hagerty MJ, et al. **J Pharm Pharmacol** 1996 Apr;48(4):417–21

Pharmacodynamics of ZM 241385, a potent A2a adenosine receptor antagonist, after enteric administration in rat, cat and dog. Poucher SM, et al. **J Pharm Pharmacol** 1996 Jun; 48(6):601–6

The pharmacodynamics of 6–(3–dimethylaminopropionyl)forskolin and a possible metabolite in beagles. Kametani S, et al. **J Pharm Sci** 1996 Apr;85(4):377–80

Cardiovascular effects of Sar–[D–Phe8]des–Arg9–bradykinin, a metabolically protected agonist of B1 receptor for kinins, in the anesthetized rabbit pretreated with a sublethal dose of bacterial lipopolysaccharide. Audet R, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):6–15

Mechanisms of the regional hemodynamic effects of a mu–opioid receptor agonist microinjected into the hypothalamic paraventricular nuclei of conscious unrestrained rats. Bachelard H, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):460–70

Vascular and hemodynamic differences between organic nitrates and nitrites. Bauer JA, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):326–31

Effects of prolonged ethinyl estradiol treatment on calcium channel binding and in vivo calcium–mediated hemodynamic responses in ovariectomized rats. Bowling N, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):218–25

Effects of sarafotoxin S6c on antidiuresis and norepinephrine overflow induced by stimulation of renal nerves in anesthetized dogs. Matsuo G, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):905–10

Differences in beta 3–adrenergic receptor cardiovascular regulation in conscious primates, rats and dogs. Shen YT, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1435–43

Differential involvement of serotonin 2A/C and thromboxane A2/prostanoid receptors in high– vs. low–shear rate arterial thrombosis in rabbits. Valentin JP, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):761–9

Comparing the subjective, psychomotor and physiological effects of intravenous nalbuphine and morphine in healthy volunteers. Zacny JP, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1159–69

A comparative study of cardiovascular, endocrine and behavioural effects of betamethasone and dexamethasone administration to fetal sheep. Derks JB, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):217–26

Possible involvement of glucocorticoids in the modulation of interleukin–1–induced cardiovascular responses in rats. Watanabe T, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):231–9

Antidepressant drugs and the cardiovascular system: a comparison of tricylics and selective serotonin reuptake inhibitors and their relevance for the treatment of psychiatric patients with cardiovascular problems. Coupland N, et al. **J Psychopharmacol (Oxf)** 1997; 11(1):83–92 (117 ref.)

Hemodynamic and inotropic effects of nitric oxide in pulmonary hypertension. Chen EP, et al. **J Surg Res** 1997 May;69(2):288–94

The effect of thyroid hormone supplementation on hemodynamic stability and survival in an endotoxin–induced model of physiologic stress. Glembot TM, et al. **J Surg Res** 1996 Feb 15;61(1):77–83

Nifedipine protects small intestine from cyclosporine–induced hemodynamic and functional impairment. Sun S, et al. **J Surg Res** 1997 May;69(2):295–9

Intravenous co–infusion of adenosine and norepinephrine preconditions the heart without adverse hemodynamic effects [see comments] Cohen MV, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):236–42. Comment in: J Thorac Cardiovasc Surg 1997 Aug;114(2):234–5.

The endothelin antagonist bosentan: hemodynamic effects during normoxia and hypoxic pulmonary hypertension in pigs. Holm P, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):890–7

Metabolic and hemodynamic effects of intravenous glutamate infusion early after coronary operations. Svedjeholm R, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1468–77

Role of platelet–activating factor antagonism in posthemorrhage septic shock in pigs. Abu–Zidan FM, et al. **J Trauma** 1996 Oct;41(4):634–40

Effect of chronic cocaine administration on the hemodynamic response to acute hemorrhage in awake and anesthetized sheep. Bernards CM, et al. **J Trauma** 1997 Jan;42(1):42–8

Growth hormone impaired compensation of hemorrhagic shock after trauma and sepsis in swine. Unneberg K, et al. **J Trauma** 1996 Nov;41(5):775–80

Hemodynamic effects of calcium gluconate administered to conscious horses. Grubb TL, et al. **J Vet Intern Med** 1996 Nov–Dec;10(6):401–4

Pharmacokinetic and pharmacodynamic properties of conventional and CD–formulated diltiazem in cats. Johnson LM, et al. **J Vet Intern Med** 1996 Sep–Oct;10(5):316–20

Effects of inhaled nitric oxide on hypoxic pulmonary vasoconstriction in dogs and a case report of venae cavae syndrome. Hirakawa A, et al. **J Vet Med Sci** 1996 Jun; 58(6):551–3

Comparison of circulatory effects between arginine vasopressin (AVP) and dopamine in conscious newborn goats. Sakamoto H, et al. **J Vet Med Sci** 1996 Jun; 58(6):511–4

Effects of antihypertensive drugs on maternal and fetal hemodynamics and uterine blood flow in pregnant goats––comparison of nicardipine and labetalol. Sakamoto H, et al. **J Vet Med Sci** 1996 Jun;58(6):515–9

Midazolam and ketamine induction before halothane anaesthesia in ponies: cardiorespiratory, endocrine and metabolic changes. Luna SP, et al. **J Vet Pharmacol Ther** 1997 Apr;20(2):153–9

Rapid coronary vasodilation by nitroglycerin tapes. Hara M, et al. **Jpn Heart J** 1996 Sep;37(5):603–10

Dose–effect relationships of prostaglandin E1 in severe endstage chronic heart failure. Stanek B, et al. **Jpn Heart J** 1997 Jan;38(1):53–65

Adenosine for reversal of hemorrhagic shock in rabbits. Abdel–Zaher AO, et al. **Jpn J Pharmacol** 1996 Nov; 72(3):247–54

Regional hemodynamic effects of candesartan cilexetil (TCV–116), an angiotensin II AT1–receptor antagonist, in conscious spontaneously hypertensive rats. Kanagawa R, et al. **Jpn J Pharmacol** 1997 Mar;73(3):185–90

Modulation of renal hemodynamics by IGF–1 is absent in spontaneously hypertensive rats. Inishi Y, et al. **Kidney Int** 1997 Jul;52(1):165–70

Effect of thiopental, saffan, and propofol anesthesia on cardiovascular parameters and bronchial smooth muscle in the rhesus monkey. Foster A, et al. **Lab Anim Sci** 1996 Jun;46(3):327–34

Effects of dopamine and adrenaline infusions in severe infection [letter; comment] Barry B, et al. **Lancet** 1996 Oct 19;348(9034):1099–100. Comment on: Lancet 1996 Jul 27;348(9022):219–23.

Short– and long–term hemodynamic response to octreotide in portal hypertensive patients: a double–blind, controlled study. Zironi G, et al. **Liver** 1996 Aug;16(4):225–34

Hemodynamics of respiratory failure in rabbit model: effect of surfactant supplementation. Barsotti M, et al. **Lung** 1996; 174(4):255–68

Effects of ethosuximide on the cerebral vasculature and hemodynamics of rats. Velkova K, et al. **Methods Find Exp Clin Pharmacol** 1995 Dec;17(10):677–84

Influence of atropine on the cardiovascular effects of noradrenaline and tyramine in elder volunteers. Poller U, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jul; 356(1):100–6

Effects of an orally effective endothelin–A receptor antagonist in dogs with pacing–induced heart failure. McConnell PI, et al. **Nebr Med J** 1996 Nov;81(11):349–55

Administration of recombinant erythropoietin determines increase of peripheral resistances in patients with hypovolemic shock [letter] Allegra A, et al. **Nephron** 1996; 74(2):431–2

Renal denervation altered the hemodynamic and renal effects following intracerebroventricular administration of the I1–imidazoline receptor agonist, rilmenidine, in pentobarbital anaesthetized rats. Penner SB, et al. **Neurochem Int** 1997 Jan;30(1):55–62

Cardiorespiratory effects of cocaine and procaine at the ventral brainstem. Dehkordi O, et al. **Neurotoxicology** 1996 Summer;17(2):387–95

Midazolam following open heart surgery in children: haemodynamic effects of a loading dose [published erratum appears in Paediatr Anaesth 1996;6(6):448] Macnab AJ, et al. **Paediatr Anaesth** 1996;6(5):387–97

Effects of bradykinin receptor antagonist on the release of beta–endorphin and bradykinin and on hemodynamic changes in a canine model of experimental acute pancreatitis. Satake K, et al. **Pancreas** 1996 Jan;12(1):92–7

Endotoxin induces biphasic alterations in small intestinal myoelectric activity in fasted newborn piglets. Li JX, et al. **Pediatr Res** 1996 Dec;40(6):822–6

Hemodynamics and tissue blood flow after porcine surfactant replacement in surfactant–depleted newborn piglets. Moen A, et al. **Pediatr Res** 1996 Aug;40(2):215–24

Acute effects on systemic and pulmonary hemodynamics of intratracheal instillation of porcine surfactant or saline in surfactant–depleted newborn piglets. Moen A, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):486–92

Ecgonine methyl ester, a major cocaine metabolite, causes cerebral vasodilation in neonatal sheep. Pane MA, et al. **Pediatr Res** 1997 Jun;41(6):815–21

Effects of dexamethasone on retinal and choroidal blood flow during normoxia and hyperoxia in newborn piglets. Stiris TA, et al. **Pediatr Res** 1996 Oct;40(4):592–6

Partial liquid ventilation combined with inhaled nitric oxide in acute respiratory failure with pulmonary hypertension in piglets. Zobel G, et al. **Pediatr Res** 1997 Feb;41(2):172–7

Hemodynamic profile of neuropeptide Y in dogs: effect of ganglionic blockade. Hashim MA, et al. **Peptides** 1997; 18(2):235–9

Inhibition of nitric oxide synthase by isothioureas: cardiovascular and antinociceptive effects. Handy RL, et al. **Pharmacol Biochem Behav** 1996 Oct;55(2):179–84

Possible novel pharmacodynamic action of cocaine: cardiovascular and behavioral evidence. Tella SR. **Pharmacol Biochem Behav** 1996 Jun;54(2):343–54

Hemodynamic changes do not mediate the cardioprotection induced by the A1, adenosine receptor agonist CCPA in the rabbit. Casati C, et al. **Pharmacol Res** 1997 Jan; 35(1):51–5

Short–term and long–term cardiovascular actions of different doses of perindopril in the rabbit. Fennessy PA, et al. **Pharmacol Res** 1996 Sep–Oct;34(3–4):135–41

Effects of chronic treatment with lisinopril on cardiovascular complications in streptozotocin diabetic and DOCA hypertensive rats. Sevak AR, et al. **Pharmacol Res** 1996 Nov–Dec;34(5–6):201–9

Differential hemodynamic effects of the nitric oxide donor pirsidomine in comparison to SIN–1, nitroprusside and nitroglycerin. Arkonac BM, et al. **Pharmacology** 1996 Feb; 52(2):92–100

Hemodynamic and cardiac effects of BMS–180448, a novel K+ATP opener, in anesthetized dogs and isolated rat hearts. D'Alonzo AJ, et al. **Pharmacology** 1996 Feb; 52(2):101–12

Pharmacological modulation of the cardiovascular response to hypertonic NaCl injection in the anteroventral area of the rat brain third ventricle. Rosa F, et al. **Pharmacology** 1997 Feb;54(2):98–107

Hemodynamic response to intentionally altered flow continuity of dobutamine and dopamine by an infusion pump in infants. Stowe CD, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1018–23

Effect of chronic treatment with propranolol on the cardiovascular responses to chronic cold exposure. Sun Z, et al. **Physiol Behav** 1997 Aug;62(2):379–84

Influence of selected antiarrhythmic drugs on the hemodynamic parameters in rabbits during anesthesia. Part III. Ketamine anesthesia. Orszulak–Michalak D. **Pol J Pharmacol** 1995 Sep–Oct;47(5):407–16

Influence of lidocaine on the hemodynamic parameters in rabbits during general anesthesia. Orszulak–Michalak D. **Pol J Pharmacol** 1996 Mar–Apr;48(2):153–62

Interaction of cholecystokinin (CCK–8) with agonist and antagonist of beta–adrenergic receptors in circulatory system of diabetic rats. Wiśniewska RJ, et al. **Pol J Pharmacol** 1996 May–Jun;48(3):293–7

Cardio–pulmonary function during acute unilateral occlusion of the pulmonary artery in broilers fed diets containing normal or high levels of arginine–HCl. Wideman RF Jr, et al. **Poult Sci** 1996 Dec;75(12):1587–602

Effects of captopril on renal functions, renal and portal hemodynamics in patients with cirrhosis. Tsai YT, et al. **Proc Natl Sci Counc Repub China B** 1996 Apr;20(2):44–50

HEMODYNAMICS

Differential release of prostacyclin and nitric oxide evoked from pulmonary and systemic vascular beds of the pig by endothelin-1. Clement MG, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):279–85

Protective actions of a thromboxane receptor antagonist, SQ 29548 on the ischemic myocardium: morphologic and hemodynamic effects. Singh J, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Feb; 56(2):105–10

Pharmacokinetics and pharmacodynamics of intra-graft iloprost in femorodistal bypass surgery. Watson HR, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 May; 56(5):389–93

Smoking status and nicotine administration differentially modify hemodynamic stress reactivity in men and women. Girdler SS, et al. **Psychosom Med** 1997 May–Jun; 59(3):294–306

Comparison between hemodynamic changes after single-dose and incremental subarachnoid anesthesia. Casati A, et al. **Reg Anesth** 1996 Jul–Aug;21(4):298–303

Cardiopulmonary effects of medetomidine in sheep and in ponies. Bryant CE, et al. **Res Vet Sci** 1996 May; 60(3):267–71

Cardiopulmonary effects of desflurane in the dog during spontaneous and artificial ventilation. Clarke KW, et al. **Res Vet Sci** 1996 Jul;61(1):82–6

Cardiac performance in conscious healthy dogs during dobutamine infusion. McEntee K, et al. **Res Vet Sci** 1996 Nov;61(3):234–9

Effects of the AT1-selective angiotensin II antagonist, telmisartan, on hemodynamics and ventricular function after cardiopulmonary resuscitation in pigs. Strohmenger HU, et al. **Resuscitation** 1997 Aug;35(1):61–8

Haemodynamic and metabolic effects of gallopamil as additive to calcium-containing and calcium-free cardioplegic solutions in mature pig hearts. Randsbaek F, et al. **Scand Cardiovasc J** 1997;31(2):83–9

The acute effect of smoking on systemic haemodynamics, kidney and endothelial functions in insulin-dependent diabetic patients with microalbuminuria. Hansen HP, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):393–9

Effect of prednisolone on amino acid-induced changes in renal haemodynamics and tubular function. Ivarsen P, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):449–59

Effects of hypertonic saline on regional function and blood flow in canine hearts during acute coronary occlusion. Kien ND, et al. **Shock** 1997 Apr;7(4):274–81

The influence of heat shock protein 70 induction on hemodynamic variables in a porcine model of recurrent endotoxemia. Klosterhalfen B, et al. **Shock** 1997 May; 7(5):358–63

Liposomal cefoxitin in a porcine model of intra-abdominal sepsis: hemodynamic changes. Soltes S, et al. **Shock** 1996; 6 Suppl 1:S43–9

Monoamine oxidase inhibitors and cardiac anesthesia revisited. Noorily SH, et al. **South Med J** 1997 Aug; 90(8):836–8

Hemodynamic and metabolic effects of vasopressin blockade in endotoxin shock. Matsuoka T, et al. **Surgery** 1997 Feb; 121(2):162–73

Anticoagulant properties of rabbit lungs in tissue thromboplastin-induced intravascular coagulation. Vad H, et al. **Thromb Haemost** 1997 Apr;77(4):679–84

Effects of nonsedating antihistamine, astemizole, on the in situ canine heart assessed by cardiohemodynamic and monophasic action potential monitoring. Sugiyama A, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):89–95

Beneficial effects of prostaglandin E1 on hemodynamic changes during liver transplantation in pigs. Oishi M, et al. **Transpl Int** 1996;9 Suppl 1:S100–4

Hemodynamic analysis of post-reperfusion syndrome and the effect of preventing this syndrome using thromboxane A2 synthetase inhibitor (OKY-046) in swine liver transplantation. Ishine N, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):378–81

Attenuation of ischemic liver injury by a non-selective endothelin receptor antagonist. Jin MB, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1335

Postischemic improvement of hepatic microhemodynamics by a mixed ETA-, ETB-receptor antagonist (RO-47-0203). Koeppel TA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1365–6

Right ventricular failure—insights provided by a new model of chronic pulmonary hypertension. Chen EP, et al. **Transplantation** 1997 Jan 27;63(2):209–16

Cardiopulmonary effects of desflurane in ponies, after induction of anaesthesia with xylazine and ketamine. Clarke KW, et al. **Vet Rec** 1996 Aug 24;139(8):180–5

Cardiovascular and pulmonary effects of sevoflurane anesthesia in horses. Aida H, et al. **Vet Surg** 1996 Mar–Apr; 25(2):164–70

Cardiopulmonary effects of using carbon dioxide for laparoscopic surgery in dogs. Duke T, et al. **Vet Surg** 1996 Jan–Feb;25(1):77–82

Cardiovascular effects of 1.0, 1.5, and 2.0 minimum alveolar concentrations of isoflurane in experimentally induced hypothyroidism in dogs. McMurphy RM, et al. **Vet Surg** 1996 Mar–Apr;25(2):171–8

[A research of acute hemodynamics and hormonal changes of intravenous captopril in patients with cor pulmonale and pulmonary hypertension] Tang B, et al. **Chung Hua Chieh Ho Ho Hu Hsi Tsa Chih** 1995 Oct; 18(5):303–5, 319 (Eng. Abstr.) **(Chi)**

[Effects of Radix angelicae sinensis on systemic and portal hemodynamics in cirrhotics with portal hypertension] Huang Z, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan; 35(1):15–8 (Eng. Abstr.) **(Chi)**

[Hemodynamic and renal effects of strong diuretic atrial natriuretic peptide in patients with acute myocardial infarction] Wu H, et al. **Chung Hua Nei Ko Tsa Chih** 1995 Dec;34(12):816–8 (Eng. Abstr.) **(Chi)**

[Effects of aspirin and nifedipine alone or in combination on hemodynamics in anesthetized dogs] Song YM, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):72–4 (Eng. Abstr.) **(Chi)**

[Concentration-effect relationship, hemodynamics and respiration after infusion of the steroid anesthetic eltanolone in healthy subjects] Hering W, et al. **Anaesthesist** 1996 Dec; 45(12):1142–50 (Eng. Abstr.) **(Ger)**

[Circulatory reactions under spinal anesthesia. The catheter technique versus the single dose procedure] Holst D, et al. **Anaesthesist** 1997 Jan;46(1):38–42 (Eng. Abstr.) **(Ger)**

[Interaction of nimodipine and propofol in dogs. Hemodynamics and cardiodynamics] Rolf N, et al. **Anaesthesist** 1997 May;46(5):398–402 (Eng. Abstr.) **(Ger)**

[Cardiovascular effects after bolus administration of cisatracurium. A comparison with vecuronium] Soukup J, et al. **Anaesthesist** 1996 Nov;45(11):1024–9 (Eng. Abstr.) **(Ger)**

[Hemodynamic effects of three different dosages of the induction hypnotic, eltanolone, in coronary surgery patients] Tassani P, et al. **Anaesthesist** 1996 Mar; 45(3):249–54 (Eng. Abstr.) **(Ger)**

[S-(+)-Ketamine and circulation] Zielmann S, et al. **Anaesthesist** 1997 Mar;46 Suppl 1:S43–6 (15 ref.) (Eng. Abstr.) **(Ger)**

[Neuromuscular and cardiovascular effect of mivacurium in anesthesia induction in patients with renal failure] Blobner M, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Feb; 31(1):15–21 (Eng. Abstr.) **(Ger)**

[Echocardiography values in the halothane uptake phase--measurement by acoustic quantification and manual evaluation] Laux G, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jan; 32(1):30–5 (Eng. Abstr.) **(Ger)**

[Evaluation of the antinociceptive effect of xylazine after epidural administration in dogs under general anesthesia with isoflurane] Rector E, et al. **Berl Munch Tierarztl Wochenschr** 1997 Jan;110(1):15–23 (Eng. Abstr.) **(Ger)**

[Chronic intermittent urokinase therapy: anti-ischemic and hemodynamic effects] Leschke M, et al. **Z Kardiol** 1997; 86 Suppl 1:85–94 (45 ref.) (Eng. Abstr.) **(Ger)**

[Differential therapy of cardiogenic shock with dopamine/milrinone in comparison with dopamine/dobutamine] Meissner A, et al. **Z Kardiol** 1996 Nov;85(11):839–46 (Eng. Abstr.) **(Ger)**

[Acute effects of enoximone after intracoronary administration on hemodynamics, myocardial perfusion and regional wall motion] Mitrovic V, et al. **Z Kardiol** 1996 Nov;85(11):856–67 (Eng. Abstr.) **(Ger)**

[Hemodynamic and humoral effects of parenteral therapy with intravenously administered ACE inhibitor quinaprilat in patients with advanced heart failure] Mitrovic V, et al. **Z Kardiol** 1996 Nov;85(11):828–38 (Eng. Abstr.) **(Ger)**

[The new potassium channel blocker tedisamil and its hemodynamic, anti-ischemic and neurohumoral effect in patients with coronary heart disease] Mitrovic V, et al. **Z Kardiol** 1996 Dec;85(12):961–72 (Eng. Abstr.) **(Ger)**

[Effect of resorption of Purisole (mannitol/sorbitol solution) as a distention medium in hysteroscopic operations on cardiovascular and laboratory parameters and energy metabolism--a prospective non-randomized observational study] Aydeniz B, et al. **Zentralbl Gynakol** 1996; 118(2):73–82 (Eng. Abstr.) **(Ger)**

[Hemodynamic effects of continuous intrathecal infusions of clonidine from a telemetric pump] D'Aleo P, et al. **Cardiologia** 1997 Jun;42(6):639–41 **(Ita)**

[Potassium channel activators: hemodynamic effects at the systemic and coronary level] Perrone Filardi P, et al. **Cardiologia** 1995 Dec;40(12 Suppl 1):87–9 **(Ita)**

[Hemodynamic and metabolic impairment during hepatectomy: effect of continuous dobutamine infusion] Finco G, et al. **Chir Ital** 1995;47(5):33–9 (Eng. Abstr.) **(Ita)**

[Nitrate compounds in patients awaiting heart transplantation] Gavazzi A. **G Ital Cardiol** 1996 Sep; 26(9):1089–94 **(Ita)**

[Acute changes in the hemodynamic profile and circulating levels of atrial natriuretic peptide induced by dobutamine in severe heart failure] La Vecchia L, et al. **G Ital Cardiol** 1996 Aug;26(8):863–74 (Eng. Abstr.) **(Ita)**

[The effect of low-rose prostaglandin E1 on circulation, respiration and body temperature during surgical anesthesia] Hayashida M, et al. **Masui** 1997 Mar; 46(3):363–72 (Eng. Abstr.) **(Jpn)**

[Hemodynamic effects of amrinone combined with dopamine in patients undergoing living renal transplantation] Okuno Y, et al. **Masui** 1997 Jan;46(1):87–94 (Eng. Abstr.) **(Jpn)**

[Acute effects of human recombinant erythropoietin on cardiovascular dynamics and vasoactive substances] Suga M, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec;38(12):634–9 (Eng. Abstr.) **(Jpn)**

[Hemodynamic effects of amrinone, phosphodiesterase inhibitor, early after coronary artery bypass grafting] Shibata T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov;44(11):2027–31 (Eng. Abstr.) **(Jpn)**

[Effects of efonidipine hydrochloride, a calcium antagonist derived from dihydropyridine, on acute myocardial ischemia in anesthetized open-chest dogs] Yokoyama T, et al. **Nippon Yakurigaku Zasshi** 1996 Dec;108(6):307–21 (Eng. Abstr.) **(Jpn)**

[The influence of multiple use of cuprophan dialysers on hemodynamic changes in children with chronic kidney failure] Szczepańska M, et al. **Przegl Lek** 1995;52(11):552–7 (Eng. Abstr.) **(Pol)**

[Effects of induction propofol mono-narcosis on the central and cerebral hemodynamics] Grinberg BI, et al. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):56–8 (Eng. Abstr.) **(Rus)**

[A comparative study of the effectiveness of 5% human albumin and 10% hydroxyethyl starch (HAES-steril) for correcting hemodynamics and O2 transport in surgical interventions] Hankeln K, et al. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):23–6 (Eng. Abstr.) **(Rus)**

[Assessment of central hemodynamics during long microsurgical interventions using beforal in children] Medvedeva EA, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):43–4 (Eng. Abstr.) **(Rus)**

[Effect of intravenous infusion of polyosm preparation on diuresis and indices of systemic and cerebral hemodynamics] Plotnikov MB, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):299–301 **(Rus)**

[Effect of calcium and its antagonists on hemodynamics and respiration] Sanotskaia NV, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):138–43 **(Rus)**

[Respiration and blood circulation impairment during experimental poisoning with organophosphorus pesticides] Tarakanov IA, et al. **Biull Eksp Biol Med** 1994 May; 117(5):470–5 **(Rus)**

[The effect of antianginal preparations on the hemodynamics and metabolism of the ischemic myocardium] Makolkin VI, et al. **Eksp Klin Farmakol** 1996 Jul–Aug;59(4):18–20 (Eng. Abstr.) **(Rus)**

[The effect of verapamil on cardio- and hemodynamics in rats with various models of hypertension] Spasov AA, et al. **Eksp Klin Farmakol** 1997 May–Jun;60(3):30–3 (Eng. Abstr.) **(Rus)**

[Changes in the central hemodynamics during the treatment of hypertension with Renitec and its combination with hydrochlorothiazide] Malaia LT, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):57–60 (Eng. Abstr.) **(Rus)**

[The structural-functional status of the myocardium and central and regional hemodynamics in patients with essential hypertension under the influence of treatment with korinfar and its combination with anaprilin] Polivoda SN, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):32–4 **(Rus)**

[Effect of lactin and thyroidin on systemic hemodynamics and oxygen regimen of the body in hemorrhagic shock] Dzhurko BI. **Patol Fiziol Eksp Ter** 1996 Oct–Dec;(4):23–5 (Eng. Abstr.) **(Rus)**

[Hemodynamic effects of oral captopril in patients with critical aortic stenosis] Martínez Sánchez C, et al. **Arch Inst Cardiol Mex** 1996 Jul–Aug;66(4):322–30 (Eng. Abstr.) **(Spa)**

[Gas exchange and hemodynamic effects of nitric oxide inhalation in patients with acute respiratory distress syndrome] Betbesé AJ, et al. **Med Clin (Barc)** 1996 Jul 6; 107(6):201–6 (Eng. Abstr.) **(Spa)**

[Cardiocirculatory effects of halothane and isoflurane in respiratory distress caused by oleic acid] Cobreces-García MJ, et al. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):3–6 (Eng. Abstr.) **(Spa)**

[Patients with acute adult respiratory distress syndrome: effects of inhaled nitric oxide on gas exchange and hemodynamics] Andresen M, et al. **Rev Med Chil** 1996 Jul; 124(7):813–9 (Eng. Abstr.) **(Spa)**

[The effect of obzidan on the central and hepatic portal hemodynamics in patients with liver cirrhosis] Rusyn VI, et al. **Klin Khir** 1995;(1):7–8 **(Ukr)**

[The effect of diltiazem on systemic and cerebral hemodynamics and on the blood rheological properties in patients with ischemic stroke and atherosclerotic involvement of the major cerebral arteries] Ishchenko MM, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):127–31 (Eng. Abstr.) **(Ukr)**

GENETICS

Autosomal dominant hypertension and brachydactyly in a Turkish kindred resembles essential hypertension. Schuster H, et al. **Hypertension** 1996 Dec;28(6):1085–92

Platelet alpha 2-adrenoreceptors, catecholamines, hemodynamic variables, and anxiety in panic patients and their asymptomatic relatives. Cameron OG, et al. **Psychosom Med** 1996 Jul–Aug;58(4):289–301

PHYSIOLOGY

A new model of uncontrolled hemorrhage that allows correlation of blood pressure and hemorrhage. Silbergleit R, et al. **Acad Emerg Med** 1996 Oct;3(10):917–21

The hemodynamics of transjugular intrahepatic portosystemic shunts: investigations with Doppler sonography and development of an in vitro model. Daniel

BL, et al. **Acad Radiol** 1996 Jun;3(6):455–62

Identification of regional myocardial ischemia using contrast-enhanced dynamic magnetic resonance imaging in an experimental canine model of hemodynamically significant coronary arterial stenosis. Higgins CB, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S392–4

Pathophysiology of aortic cross-clamping. Gelman S. **Acta Anaesthesiol Scand Suppl** 1997;110:41–2

Structural and architectural changes during arterial development and the role of hemodynamics. Stehbens WE. **Acta Anat (Basel)** 1996;157(4):261–74 (95 ref.)

The hemodynamic manifestation of normal myocardial relaxation. A framework for experimental and clinical evaluation. Gillebert TC, et al. **Acta Cardiol** 1997; 52(3):223–46 (50 ref.)

Different secretion profiles of atrial and brain natriuretic peptides after acute volume loading in patients with ischemic heart disease. Matsumoto N, et al. **Acta Cardiol** 1997;52(3):261–72

ANP concentrations during interchanging DDD-VVI pacing modes in patients with retrograde ventriculoatrial conduction. Papadopoulos CL, et al. **Acta Cardiol** 1997; 52(1):37–47

Three-dimensional metabolic and hemodynamic imaging of the normal and ischemic rat brain. Ginsberg MD, et al. **Acta Neurochir Suppl (Wien)** 1996;66:44–9

Pulmonary artery pressure in term and preterm neonates revisited [letter] Subhedar NV, et al. **Acta Paediatr** 1997 Jul;86(7):781–2

Local vascular responses to elevation of an organ above the heart. Asgeirsson B, et al. **Acta Physiol Scand** 1996 Jan; 156(1):9–18

An isolated blood-perfused guinea-pig lung model for simultaneous registration of haemodynamic, microvascular and respiratory variables. Nyhlén K, et al. **Acta Physiol Scand** 1997 Apr;159(4):293–302

The S factor—a new derived hemodynamic oxygenation parameter—a useful tool for simplified mathematical modeling of global problems of oxygen transport. Farrell K, et al. **Adv Exp Med Biol** 1997;411:149–55

Mathematical modelling of local regulation of blood flow by veno-arterial diffusion of vasoactive metabolites. Kopyltsov AV, et al. **Adv Exp Med Biol** 1997;411:303–11

Length of resting period between stimulation cycles modulates hemodynamic response to a motor stimulus. Obrig H, et al. **Adv Exp Med Biol** 1997;411:471–80

The role of vasopressin and angiotensin II in the hemodynamic response to dynamic exercise. Symons JD, et al. **Adv Exp Med Biol** 1995;381:215–21

Measuring intraaneurysmal flow: risk of perforation [letter] [see comments] Debrun G. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1392. Comment in: AJNR Am J Neuroradiol 1997 Aug;18(7):1392.

Measuring intraaneurysmal flow: risk of perforation [letter; comment] Strother CM. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1392. Comment on: AJNR Am J Neuroradiol 1997 Aug;18(7):1392.

Chronic alcohol consumption causes accelerated myocardial preconditioning to ischemia-reperfusion injury. McDonough KH. **Alcohol Clin Exp Res** 1997 Aug; 21(5):869–73

Mitral flow velocity changes after 6 months of optimized therapy provide important hemodynamic and prognostic information in patients with chronic heart failure. Traversi E, et al. **Am Heart J** 1996 Oct;132(4):809–19

Predictors of response to exercise training in severe chronic congestive heart failure. Meyer K, et al. **Am J Cardiol** 1997 Jul 1;80(1):56–60

Skeletal muscle hypoperfusion during recovery from maximal supine bicycle exercise in patients with heart failure. Sumimoto T, et al. **Am J Cardiol** 1996 Oct 1;78(7):841–4

Influences of aortic pressure gradient and ventricular septal thickness with systolic coronary flow in aortic valve stenosis. Tamborini G, et al. **Am J Cardiol** 1996 Dec 1; 78(11):1303–6

Hemodynamics following real and hypnosis-simulated phlebotomy. Casiglia E, et al. **Am J Clin Hypn** 1997 Jul; 40(1):368–75

Renal and vascular effects of chronic endothelin receptor antagonism in malignant hypertensive rats. Li JS, et al. **Am J Hypertens** 1996 Aug;9(8):803–11

Hemodynamic and endocrine responsiveness to mental arithmetic task and mirror drawing test in patients with essential hypertension. Yoshiuchi K, et al. **Am J Hypertens** 1997 Mar;10(3):243–9

Effects of hypervolemia on interdialytic hemodynamics and blood pressure control in hemodialysis patients [see comments] Luik AJ, et al. **Am J Kidney Dis** 1997 Oct; 30(4):466–74. Comment in: Am J Kidney Dis 1997 Oct;30(4):577–8.

A comparison of retinal and choroidal hemodynamics in patients with primary open-angle glaucoma and normal-pressure glaucoma. Duijm HF, et al. **Am J Ophthalmol** 1997 May;123(5):644–56

Myoglobin enhances cardiac performance in antarctic icefish species that express the protein. Acierno R, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R100–6

Increased sciatic nerve blood flow in diabetic rats: assessment by "molecular" vs. particulate microspheres. Chang K, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):E164–73

Evidence for increased beta-adrenoreceptor responsiveness induced by 14 days of simulated microgravity in humans. Convertino VA, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R93–9

Circadian and ultradian control of cardiac output in spontaneous hypertension in rats. Oosting J, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H66–75

NO-containing factors mediate hindlimb vasodilation produced by superior laryngeal nerve stimulation. Possas OS, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H234–43

Mechanical workload-myocardial water content relationship in isolated rat hearts. Schertel ER, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H271–8

Inhibition of intrarenal NO stimulates renin secretion through a macula densa-mediated mechanism. Schnackenberg CG, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R879–86

Systemic and renal hemodynamic effects of hemorrhage in conscious lambs. Smith FG, et al. **Am J Physiol** 1997 Jul; 273(1 Pt 2):H339–46

K+ATP channels and adenosine are not necessary for coronary autoregulation. Stepp DW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1299–308

Endothelin-1 limits increases in blood flow to native and collateral-dependent myocardium. Symons JD, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R41–8

Myocardial bioenergetics during acute hibernation. Zhang J, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1452–63

Abnormal brain hemodynamic responses during passive orthostatic challenge in panic disorder. Faravelli C, et al. **Am J Psychiatry** 1997 Mar;154(3):378–83

Digital Starling forces and hemodynamics during early laminitis induced by an aqueous extract of black walnut (Juglans nigra) in horses. Eaton SA, et al. **Am J Vet Res** 1995 Oct;56(10):1338–44

The effect of four different surgical prone positions on cardiovascular parameters in healthy volunteers. Wadsworth R, et al. **Anaesthesia** 1996 Sep;51(9):819–22

Acute, arterial hypoxia. Overview. Mertzlufft F, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):370–2

Electrocardiographic and hemodynamic changes and their association with myocardial infarction during coronary artery bypass surgery. A multicenter study. Multicenter Study of Perioperative Ischemia (McSPI) Research Group. Jain U, et al. **Anesthesiology** 1997 Mar;86(3):576–91

Accuracy of the inverse Womersley method for the calculation of hemodynamic variables. Cezeaux JL, et al. **Ann Biomed Eng** 1997 May-Jun;25(3):536–46

Alteration of hemodynamics in aneurysm models by stenting: influence of stent porosity. Lieber BB, et al. **Ann Biomed Eng** 1997 May-Jun;25(3):460–9

Hemodynamic control during left heart bypass with a piezometric tower [letter] Noera G, et al. **Ann Thorac Surg** 1997 Sep;64(3):889–90

Basic determinants of myocardial hypertrophy: a review of molecular mechanisms. Copper G 4th. **Annu Rev Med** 1997; 48:13–23 (53 ref.)

Haemodynamic consequences of immediate intra-anaesthesia application of intermittent positive pressure breathing in horses. Ratajczak K, et al. **Arch Vet Pol** 1995;35(1–2):5–17

Dose response effect of diaspirin crosslinked hemoglobin (DCLHb) on systemic hemodynamics and regional blood circulation in rats. Barve A, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar; 25(1–2):75–84

Controller for an axial flow blood pump. Konishi H, et al. **Artif Organs** 1996 Jun;20(6):618–20

The heart-Hemopump interaction: a study of Hemopump flow as a function of cardiac activity. Meyns B, et al. **Artif Organs** 1996 Jun;20(6):641–9

Development of a novel centrifugal pump: magnetic rotary pump. Naganuma S, et al. **Artif Organs** 1997 Jul; 21(7):746–50

Transport of hemodynamically unstable patients by a mobile mechanical circulatory support team. Reiss N, et al. **Artif Organs** 1996 Aug;20(8):959–63

Clinical experience with the Nikkiso centrifugal pump. Shomura Y, et al. **Artif Organs** 1996 Jun;20(6):711–4

Hemodynamic system analysis of intraarterial microaxial pumps in vitro and in vivo. Siess T, et al. **Artif Organs** 1996 Jun;20(6):650–61

Basic performance of a miniature intraventricular axial pump. Umezu M, et al. **Artif Organs** 1996 Jun;20(6):689–93

Biventricular assist using a portable driver in combination with implanted devices: preliminary experience. von Segesser LK, et al. **Artif Organs** 1997 Jan;21(1):72–5

Fluctuations of the hemodynamic derivatives during left ventricular assistance using oscillated blood flow. Yambe T, et al. **Artif Organs** 1996 Jun;20(6):637–40

Nonlinear mathematical analysis of the hemodynamic parameters during left ventricular assistance with oscillated blood flow. Yambe T, et al. **Artif Organs** 1997 Jul; 21(7):625–9

Normalization of priming solution ionized calcium concentration improves hemodynamic stability of neonates receiving venovenous ECMO [letter; comment] Cheung PY. **ASAIO J** 1996 Nov-Dec;42(6):1033–4. Comment on: ASAIO J 1995 Oct-Dec;41(4):884–8.

Cardio-respiratory changes during the onset of head-down tilt. Soubiran C, et al. **Aviat Space Environ Med** 1996 Jul; 67(7):648–53

Evidence for vascular tone regulation by resident or infiltrating leukocytes. Marceau F. **Biochem Pharmacol** 1996 Nov 22;52(10):1481–8 (74 ref.)

Cardiovascular, neuroendocrine, and monoaminergic responses to psychological stressors: possible differences between remitted panic disorder patients and healthy controls. Leyton M, et al. **Biol Psychiatry** 1996 Sep 1; 40(5):353–60

Dynamical control of the dialysis process. Part I: Structural considerations and first mathematical approach. Scharfetter H, et al. **Biomed Tech (Berl)** 1996 Jul-Aug;41(7–8):196–202

Metabolic and adrenergic characteristics of young men with insulin resistance. Moan A, et al. **Blood Press Suppl** 1996; 1:30–7

Hemodynamic and humoral correlates of insulin resistance in non-obese borderline hypertensives—a preliminary report. Phillips RA, et al. **Blood Press Suppl** 1996;1:72–4

Haemodynamic conditions enhancing gas embolism after venous injury during laparoscopy: a study in pigs. Bazin JE, et al. **Br J Anaesth** 1997 May;78(5):570–5

Increased intraperitoneal pressure up to 15 mm Hg does not reliably induce haemodynamic changes in pigs. Lentschener C, et al. **Br J Anaesth** 1997 May;78(5):576–8

Role of vasopressin in the haemodynamic response to laparoscopic cholecystectomy. Walder AD, et al. **Br J Anaesth** 1997 Mar;78(3):264–6

Temporal differences between the involvement of angiotensin II and endothelin in the cardiovascular responses to endotoxaemia in conscious rats. Gardiner SM, et al. **Br J Pharmacol** 1996 Dec;119(8):1619–27

Trigeminal-parabrachial connections: possible pathway for nociception-induced cardiovascular reflex responses. Allen GV, et al. **Brain Res** 1996 Apr 9;715(1–2):125–35

Doppler-derived diastolic indices in dilated cardiomyopathy: a hemodynamic evaluation relating pre- and afterload parameters to flow velocity. Bartel T, et al. **Can J Cardiol** 1996 Oct;12(10):953–8

Hemodynamic responses to Pasteurella haemolytica inoculation in calves given type 2 serotonergic antagonist. Desmecht D, et al. **Can J Physiol Pharmacol** 1996 May; 74(5):572–9

Arterial remodeling: relation to hemodynamics. Langille BL. **Can J Physiol Pharmacol** 1996 Jul;74(7):834–41 (100 ref.)

Changes in blood flow distribution and capillary function after deep hypothermia in rat. Tveita T, et al. **Can J Physiol Pharmacol** 1996 Apr;74(4):376–81

Physiologic consequences of training. Charlton GA, et al. **Cardiol Clin** 1997 Aug;15(3):345–54 (59 ref.)

Doppler transmitral flow pattern is an independent prognostic factor in acute myocardial infarction. García-Rubira JC, et al. **Cardiology** 1997 Mar-Apr; 88(2):203–6

Surgery of descending thoracic aortic aneurysms with centrifugal pump support. Biglioli P, et al. **Cardiovasc Surg** 1997 Feb;5(1):99–103

Reduced blood flow accelerates intimal hyperplasia in endarterectomized canine arteries. Chen C, et al. **Cardiovasc Surg** 1997 Apr;5(2):161–8

The relationship between functional class, pulmonary artery pressure and size in left atrial myxoma. Nakano T, et al. **Cardiovasc Surg** 1996 Jun;4(3):320–3

Stentless valve replacement in the small aortic root. Walther T, et al. **Cardiovasc Surg** 1997 Apr;5(2):229–34

Utilization of translesional hemodynamics: comparison of pressure and flow methods in stenosis assessment in patients with coronary artery disease. Di Mario C, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):189–201

Periodic intermittent electromechanical dissociation: hemodynamic correlate of a malfunctioning mechanical prosthetic valve. Shah D, et al. **Cathet Cardiovasc Diagn** 1996 Aug;38(4):377–8

Hemodynamic compromise as a factor in clinical progression of Sturge-Weber syndrome. Okudaira Y, et al. **Childs Nerv Syst** 1997 Apr;13(4):214–9

Characterization of arterial hemodynamics in rats with established hypertension. Chen HI, et al. **Chin J Physiol** 1996;39(1):49–55

Effects of changes in blood flow rate on cell death and cell proliferation in carotid arteries of immature rabbits. Cho A, et al. **Circ Res** 1997 Sep;81(3):328–37

Hemodynamic regulation of tumor necrosis factor-alpha gene and protein expression in adult feline myocardium. Kapadia SR, et al. **Circ Res** 1997 Aug;81(2):187–95

Platelet-derived growth factor ligand and receptor expression in response to altered blood flow in vivo. Mondy JS, et al. **Circ Res** 1997 Sep;81(3):320–7

Coronary and systemic hemodynamic effects of sustained inhibition of nitric oxide synthesis in conscious dogs. Evidence for cross talk between nitric oxide and cyclooxygenase in coronary vessels. Puybasset L, et al. **Circ Res** 1996 Aug;79(2):343–57 (51 ref.)

Hemodynamic patterns of age-related changes in blood pressure. The Framingham Heart Study. Franklin SS, et al. **Circulation** 1997 Jul 1;96(1):308–15

Effect of sympathoinhibition on exercise performance in patients with heart failure. Lang CC, et al. **Circulation** 1997 Jul 1;96(1):238–45

Cardiac sympathetic responses to acute vasodilation. Normal ventricular function versus congestive heart failure. Newton GE, et al. **Circulation** 1996 Dec 15;94(12):3161–7

Cardiovascular and hormonal responses to food ingestion in humans with spinal cord transection. Baliga RR, et al. **Clin Auton Res** 1997 Jun;7(3):137–41

Reproducibility of the cardiovascular reactivity to a computerized version of the Stroop stress test in

normotensive and hypertensive subjects. Fauvel JP, et al. **Clin Auton Res** 1996 Aug;6(4):219–24

Systemic and regional (including superior mesenteric) haemodynamic responses during supine exercise while fasted and fed in normal man. Puvi-Rajasingham S, et al. **Clin Auton Res** 1997 Jun;7(3):149–54

Certain cardiovascular indices predict syncope in the postural tachycardia syndrome. Sandroni P, et al. **Clin Auton Res** 1996 Aug;6(4):225–31

Relationship between exercise hyperpnea, hemodynamics, and blood gases before and during glyceryl trinitrate infusion in patients with exercise-induced elevation of pulmonary artery wedge pressure. Jørgensen LH, et al. **Clin Cardiol** 1997 Sep;20(9):773–7

Hemodynamic profiles in severe preeclamptic and superimposed preeclamptic pregnancies. Uncu G, et al. **Clin Exp Obstet Gynecol** 1996;23(3):157–60

Cardiovascular effects of intracerebroventricularly administered growth hormone-releasing factor in spontaneously hypertensive rat. Watanabe M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S58–9

Influence of changes in ionized calcium on cardiovascular reactivity during hemodialysis. van Kuijk WH, et al. **Clin Nephrol** 1997 Mar;47(3):190–6

Haemodynamic changes during vasodepressor syncope in children and autonomic function. Tanaka H, et al. **Clin Physiol** 1997 Mar;17(2):121–33

An analysis of arterial disease mortality and BUPA health screening data in men, in relation to outdoor temperature. Donaldson GC, et al. **Clin Sci (Colch)** 1997 Mar;92(3):261–8

Computer simulation of human blood flow and vascular resistance. Burnette RR. **Comput Biol Med** 1996 Sep; 26(5):363–9

The assignment of velocity profiles in finite element simulations of pulsatile flow in arteries. Redaelli A, et al. **Comput Biol Med** 1997 May;27(3):233–47

Old and new approaches for evaluating autonomic control of circulation in man. Grassi G, et al. **Contrib Nephrol** 1996; 119:165–72 (26 ref.)

Small hemodynamic effect of typical rapid volume infusions in critically ill patients. Axler O, et al. **Crit Care Med** 1997 Jun;25(6):965–70

Circulation and hemodynamics. **Curr Opin Nephrol Hypertens** 1997 Jan;6(1):B27–40

Preservation of physiological responses to hypoglycemia 2 days after antecedent hypoglycemia in patients with IDDM [see comments] George E, et al. **Diabetes Care** 1997 Aug; 20(8):1293–8. Comment in: Diabetes Care 1997 Aug;20(8):1228–30.

Enhanced urinary excretion of cGMP in liver cirrhosis. Relationship to hemodynamic changes, neurohormonal activation, and urinary sodium excretion. Fernández-Rodriguez CM, et al. **Dig Dis Sci** 1997 Jul; 42(7):1416–20

Noninvasive monitoring of hemodynamic changes in acute pancreatitis in rabbits. Gyöngyösi M, et al. **Dig Dis Sci** 1997 May;42(5):955–61

Pulmonary venous flow velocity patterns in 143 normal subjects aged 20 to 80 years old. An echo 2D colour Doppler cooperative study. Gentile F, et al. **Eur Heart J** 1997 Jan;18(1):148–64

Reproducibility of quantitative measurements from intracoronary ultrasound images. Beat-to-beat variability and influence of the cardiac cycle. Peters RJ, et al. **Eur Heart J** 1996 Oct;17(10):1593–9

Biplane transoesophageal echocardiographic detection of myocardial ischaemia in patients with coronary artery disease undergoing non-cardiac surgery: segmental wall motion vs. electrocardiography and haemodynamic performance. Kolev N, et al. **Eur J Anaesthesiol** 1997 Jul; 14(4):412–20

Attenuation of the haemodynamic responses to noxious stimuli in patients undergoing cataract surgery. A comparison of magnesium sulphate, esmolol, lignocaine, nitroglycerine and placebo given i.v. with induction of anaesthesia. van den Berg AA, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):134–47

Haemodynamic response to exercise in healthy young and elderly subjects. Bogaard HJ, et al. **Eur J Appl Physiol** 1997;75(5):435–42

The effect of training on cardiovascular responses to arm exercise in individuals with tetraplegia. Hopman MT, et al. **Eur J Appl Physiol** 1996;74(1–2):172–9

Change in sympathetic activity, cardiovascular functions and plasma hormone concentrations due to cold water immersion in men. Janský L, et al. **Eur J Appl Physiol** 1996;74(1–2):148–52

Cardiovascular and respiratory responses to passive leg cycle exercise in people with spinal cord injuries. Muraki S, et al. **Eur J Appl Physiol** 1996;74(1–2):23–8

Fluid dynamics of the CarboMedics kinetic bileaflet prosthetic heart valve. Baldwin JT, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):287–92

Mechanical cardiac valve thrombosis in patients in critical hemodynamic compromise. Buttard P, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):710–3

Editorial comment on hemodynamic evaluation of the CarboMedics R, St Jude Medical HP and Sorin-Bicarbon valve in patients with small aortic anulus: Noera et al [editorial; comment] Chambers J. **Eur J Cardiothorac Surg** 1997 Mar;11(3):477–8. Comment on: Eur J Cardiothorac Surg 1997 Mar;11(3):473–5.

Surgical therapy of esophageal carcinoma: the influence of surgical approach and esophageal resection on cardiopulmonary function. Jacobi CA, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):32–7

Hemodynamic evaluation of the Carbomedics R, St Jude Medical HP and Sorin-Bicarbon valve in patients with small aortic annulus [see comments] Noera G, et al. **Eur J Cardiothorac Surg** 1997 Mar;11(3):473–5; discussion 475–6. Comment in: Eur J Cardiothorac Surg 1997 Mar;11(3):477–8.

Pulmonary artery banding: adequacy and long-term outcome. Pinho P, et al. **Eur J Cardiothorac Surg** 1997 Jan;11(1):105–11

The influence of free hand suturing technique and zero pressure fixation on the hydrodynamic function of aortic root and aortic valve leaflets. Revanna P, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):280–6

Ventilation by external high-frequency oscillations improves cardiac function after coronary artery bypass grafting. Sidenö B, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):248–57

Hydrodynamic function of tilting disc prostheses and bileaflet valves in double valve replacement. Strüber M, et al. **Eur J Cardiothorac Surg** 1996;10(6):422–7

Postoperative hemodynamics depend on cardiopulmonary bypass temperature: the potential role of endothelin-1. Tönz M, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):157–61

Age and reproductive status affect basal venous tone in the rat. Hohmann M, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep;68(1–2):185–9

Effects of one-lung ventilation on pulmonary hemodynamics and gas exchange in the newborn. Tönz M, et al. **Eur J Pediatr Surg** 1997 Aug;7(4):212–5

Endocrine and cardiovascular responses to a series of graded physical and psychological stress stimuli in healthy volunteers. Kok FW, et al. **Eur Neuropsychopharmacol** 1995 Dec;5(4):515–22

Cardiovascular and renal effects of systemic hypoxia in chronically instrumented conscious WKY and SHR rats. Habermann G, et al. **Exp Clin Endocrinol Diabetes** 1997; 105 Suppl 2:26–8

Comparison between acute hypoxia-induced and mechanically-induced pulmonary artery hypertension on the hemodynamics, myocardial contractility and regional blood flow in dogs. Girard C, et al. **Fundam Clin Pharmacol** 1995;9(6):554–61

Hemodynamics of "domino" heart transplantation. The role of ventriculo-ventricular interaction and after load mismatch [editorial] Yacoub MH. **G Ital Cardiol** 1997 Jun; 27(6):540–3 **(Eng, Ita)**

Haemodynamic adaptation two months after transjugular intrahepatic portosystemic shunt (TIPS) in cirrhotic patients. Colombato LA, et al. **Gut** 1996 Oct;39(4):600–4

Hemodynamic adaptation to orthostatic stress after orthotopic heart transplantation. Doering LV, et al. **Heart Lung** 1996 Sep-Oct;25(5):339–51

Atrial reservoir and active transport function after cardioversion of chronic atrial fibrillation. Ito Y, et al. **Heart Vessels** 1996;11(1):30–8

Cardio respiratory changes associated with graded exercise and determination of aerobic power in male medical students (18–19 years). Biswas DA, et al. **Indian J Physiol Pharmacol** 1996 Jan;40(1):79–82

Effect of noise stress on some cardiovascular parameters and audiovisual reaction time. Saha S, et al. **Indian J Physiol Pharmacol** 1996 Jan;40(1):35–40

Vasopressor responses in autosomal dominant cerebellar ataxia. Singh KK, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):145–50

Strange hemodynamic attractor parameter with 1/R total artificial heart automatic control algorithm. Yambe T, et al. **Int J Artif Organs** 1996 May;19(5):302–6

Symptomatic and hemodynamic recovery following dobutamine stress echo: benefit of low-dose esmolol administration. Abdullah EE, et al. **Int J Card Imaging** 1997 Feb;13(1):53–7

Clinical application of the conductance catheter technique in the adult human right ventricle. Bishop A, et al. **Int J Cardiol** 1997 Feb;58(3):211–21

Interleukin-6 correlates with hemodynamic impairment during dobutamine administration in chronic heart failure. Deng MC, et al. **Int J Cardiol** 1996 Dec 6;57(2):129–34

Cardiorespiratory responses to exercise after repair of the univentricular heart. Ohuchi H, et al. **Int J Cardiol** 1997 Jan 3;58(1):17–30

Spectral analysis of cyclic fluctuations in haemodynamic parameters in critically ill patients. Todorovic M, et al. **Int J Clin Monit Comput** 1996 Nov;13(4):253–60

Hemodynamic surrogate end-points in phase I studies? De Mey C. **Int J Clin Pharmacol Ther** 1997 Apr;35(4):175–9 (18 ref.)

Vasculogenic female sexual dysfunction: the hemodynamic basis for vaginal engorgement insufficiency and clitoral erectile insufficiency. Park K, et al. **Int J Impot Res** 1997 Mar;9(1):27–37

Semi-invasive laser-Doppler flowmetry technique. New application for recordings of hemodynamics in combination with manometry of human small intestine. Thollander M, et al. **Int J Microcirc Clin Exp** 1997 Jan-Feb;17(1):15–21

A controlled study of the effects of the Transcendental Meditation program on cardiovascular reactivity and ambulatory blood pressure. Wenneberg SR, et al. **Int J Neurosci** 1997 Jan;89(1–2):15–28

Race and sex differences in cardiovascular recovery from acute stress. Gillin JL, et al. **Int J Psychophysiol** 1996 Aug-Sep;23(1–2):83–90

Relations among memory performance, mental workload and cardiovascular responses. Vincent A, et al. **Int J Psychophysiol** 1996 Oct;23(3):181–98

Effect of fluid ingestion on orthostatic responses following acute exercise. Davis JE, et al. **Int J Sports Med** 1997 Apr; 18(3):174–8

High altitude pulmonary edema: hemodynamic aspects. Hultgren HN. **Int J Sports Med** 1997 Jan;18(1):20–5 (59 ref.)

Comparison of commonly used clinical indicators of hypovolaemia with gastrointestinal tonometry. Hamilton-Davies C, et al. **Intensive Care Med** 1997 Mar; 23(3):276–81

The hemodynamic consequences of mechanical ventilation: an evolving story. Pinsky MR. **Intensive Care Med** 1997 May;23(5):493–503 (93 ref.)

Cerebral haemodynamic changes induced by spinal cord stimulation in man. Mazzone P, et al. **Ital J Neurol Sci** 1996 Feb;17(1):55–7

Maternal and fetal effects of laparoscopic insufflation in the gravid baboon. Reedy MB, et al. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4):399–406

Effect of high intensity exercise training on central hemodynamic responses to exercise in men with reduced left ventricular function. Dubach P, et al. **J Am Coll Cardiol** 1997 Jun;29(7):1591–8

A systematic approach to echocardiographic image acquisition and three-dimensional reconstruction with a subxiphoid rotational scan. Bates JR, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):257–65

An echocardiographic approach to the assessment of aortic stenosis. Bednarz JE, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):286–94 (18 ref.)

Double-chambered right ventricle: echocardiographic features. Galiuto L, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):300–5

How positionally stable is a transesophageal echocardiographic probe? Implications for three-dimensional reconstruction. Legget ME, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):266–73

Flow dependence of the aortic valve area in patients with aortic stenosis: assessment by application of the continuity equation. Rask LP, et al. **J Am Soc Echocardiogr** 1996 May-Jun;9(3):295–9

Role of arterial design on pulse wave reflection in a fractal pulmonary network. Bennett SH, et al. **J Appl Physiol** 1996 Mar;80(3):1033–56

Hemodynamic and norepinephrine responses to pacing-induced heart failure in conscious sinoaortic-denervated dogs. Brändle M, et al. **J Appl Physiol** 1996 Oct;81(4):1855–62

Circulatory sequelae of administering CPAP in hyperdynamic sepsis are time dependent. Fox GA, et al. **J Appl Physiol** 1996 Aug;81(2):976–84

Dehydration markedly impairs cardiovascular function in hyperthermic endurance athletes during exercise. González-Alonso J, et al. **J Appl Physiol** 1997 Apr; 82(4):1229–36

Enhanced beta-adrenergic-mediated cardiovascular responses in endurance athletes. Hopkins MG, et al. **J Appl Physiol** 1996 Feb;80(2):516–21

Hyperdynamic sepsis depresses circulatory compensation to normovolemic anemia in conscious rats. Morisaki H, et al. **J Appl Physiol** 1996 Feb;80(2):656–64

Cerebral oxygenation changes in response to motor stimulation. Obrig H, et al. **J Appl Physiol** 1996 Sep; 81(3):1174–83

Cardiorespiratory response patterns to afferent stimulation of muscle nerves in the rabbit. Raimondi G, et al. **J Appl Physiol** 1996 Jul;81(1):266–73

Erythropoietin does not demonstrate circadian rhythm in healthy men. Roberts D, et al. **J Appl Physiol** 1996 Mar; 80(3):847–51

Failure of prostaglandins to modulate the time course of blood flow during dynamic forearm exercise in humans. Shoemaker JK, et al. **J Appl Physiol** 1996 Oct;81(4):1516–21

Cardiovascular response to submaximal exercise in sustained microgravity. Shykoff BE, et al. **J Appl Physiol** 1996 Jul; 81(1):26–32

Cardiovascular responses to treadmill and cycle ergometer exercise in children and adults. Turley KR, et al. **J Appl Physiol** 1997 Sep;83(3):948–57

Syncope and aortic valve stenosis: clues to diagnosis and pathophysiology. Thrasher JR, et al. **J Ark Med Soc** 1996 Sep;93(4):191–3

Changes in tissue blood flow and sympathetic activities to various organs during prolonged hemorrhagic hypotension in monkeys. Tanaka S, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):121–8

Two-phase model of blood flow through stenosed tubes in the presence of a peripheral layer: applications. Srivastava VP. **J Biomech** 1996 Oct;29(10):1377–82

Effects of frictional losses and pulsatile flow on the collapse of stenotic arteries. Downing JM, et al. **J Biomech Eng** 1997 Aug;119(3):317–24

Wall shear rate distribution in an abdominal aortic bifurcation model: effects of vessel compliance and phase angle

between pressure and flow waveforms. Lee CS, et al. **J Biomech Eng** 1997 Aug;119(3):333–42

Fluid dynamics of a partially collapsible stenosis in a flow model of the coronary circulation. Siebes M, et al. **J Biomech Eng** 1996 Nov;118(4):489–97

Hemodynamic effects in acute cardiomyoplasty of different wrapped muscle activation times as measured by pressure–volume relations. Lorusso R, et al. **J Card Surg** 1996 May–Jun;11(3):217–25

Effects of angiotensin II receptor blockade during exercise: comparison of losartan and saralasin. Symons JD, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):223–31

Effect of cataract extraction with intraocular lens implantation on ocular hemodynamics. Spraul CW, et al. **J Cataract Refract Surg** 1996 Oct;22(8):1091–6

Hemodynamic changes during laparoscopic cholecystectomy in patients with severe cardiac disease. Hein HA, et al. **J Clin Anesth** 1997 Jun;9(4):261–5

The peripheral pulse wave: information overlooked [see comments] Murray WB, et al. **J Clin Monit** 1996 Sep; 12(5):365–77. Comment in: J Clin Monit 1996 Sep;12(5):349–50.

Central venous pressure, pulmonary artery occlusion pressure, intrathoracic blood volume, and right ventricular end–diastolic volume as indicators of cardiac preload. Lichtwarck–Aschoff M, et al. **J Crit Care** 1996 Dec; 11(4):180–8

Cardiovascular derangement in septic shock and nitric oxide [editorial; comment] Lodato RF. **J Crit Care** 1996 Dec; 11(4):151–4 (21 ref.). Comment on: J Crit Care 1996 Dec;11(4):155–66.

Circuit factors in the high cardiac output of sepsis [see comments] Magder S, et al. **J Crit Care** 1996 Dec; 11(4):155–66. Comment in: J Crit Care 1996 Dec;11(4):151–4.

Hyperglucagonaemia in cirrhotic patients and its relationship to the severity of cirrhosis and haemodynamic values. Lin HC, et al. **J Gastroenterol Hepatol** 1996 May;11(5):422–8

Nocturnal ophthalmic arterial hemodynamics in primary open–angle glaucoma. Harris A, et al. **J Glaucoma** 1997 Jun;6(3):170–4

Prognostic value of pulmonary hypertension in patients with chronic interstitial lung disease referred for lung or heart–lung transplantation. Harari S, et al. **J Heart Lung Transplant** 1997 Apr;16(4):460–3

Hemodynamics and gas exchange after single lung transplantation and unilateral thoracoscopic lung reduction. Keller CA, et al. **J Heart Lung Transplant** 1997 Feb; 16(2):199–208

Hemodynamic evaluation of a new bileaflet valve prosthesis: an acute animal experimental study [see comments] Hasenkam JM, et al. **J Heart Valve Dis** 1996 Nov; 5(6):574–80. Comment in: J Heart Valve Dis 1996 Nov;5(6):572–3.

Study of an acoustic technique to detect cavitation produced by a tilting disc valve. Herman BA, et al. **J Heart Valve Dis** 1996 Jan;5(1):90–6

Hemodynamic evaluation of 23 mm Pericarbon and 23 mm Hancock II bioprostheses in the aortic position at mid–term follow up. Ius P, et al. **J Heart Valve Dis** 1996 Nov; 5(6):656–61

Effect of valve holder flexibility on cavitation initiation with mechanical heart valve prostheses: an in vitro study. Lee CS, et al. **J Heart Valve Dis** 1996 Jan;5(1):104–13

Numerical study of squeeze–flow in tilting disc mechanical heart valves. Makhijani VB, et al. **J Heart Valve Dis** 1996 Jan;5(1):97–103

Use of dobutamine stress echocardiography in assessing mechanical aortic prostheses: comparison with exercise echocardiography. Zabalgoitia M, et al. **J Heart Valve Dis** 1997 May;6(3):253–7

Plasma endothelin–1 and –3 in cirrhosis: relationship with systemic hemodynamics, renal function and neurohumoral systems. Bernardi M, et al. **J Hepatol** 1996 Feb;24(2):161–8

Serum and urinary nitrate levels in liver cirrhosis: endotoxemia, renal function and hyperdynamic circulation. Campillo B, et al. **J Hepatol** 1996 Nov;25(5):707–14

Bilioenteric anastomosis reverses hyperkinetic circulation in bile duct–ligated cirrhotic rats. Jalink D, et al. **J Hepatol** 1996 Dec;25(6):924–31

Systemic haemodynamic changes in patients with cystic fibrosis with and without chronic liver disease. Williams SG, et al. **J Hepatol** 1996 Dec;25(6):900–8

Hemodynamic effects of aerobic vs resistance exercise. Copeland SR, et al. **J Hum Hypertens** 1996 Nov; 10(11):747–53

Theodore Caldwell Janeway (1872–1917): the quest for precision. O'Brien E. **J Hum Hypertens** 1996 Aug; 10(8):501–4

Gestational diabetes mellitus and hypertension in pregnancy: hemodynamics and diurnal arterial pressure profile. Oren S, et al. **J Hum Hypertens** 1996 Aug;10(8):505–9

Evaluating sympathetic and haemodynamic responses to mental stressors: hankering or achievement? [editorial] Grassi G. **J Hypertens** 1996 Oct;14(10):1155–7

Circulatory control and the supercontrollers. Korner PI. **J Hypertens** 1995 Dec;13(12 Pt 2):1508–21 (133 ref.)

Elevated plasma levels of interleukin–1 receptor antagonist and interleukin–10 in patients with acute myocardial infarction. Shibata M, et al. **J Interferon Cytokine Res** 1997 Mar;17(3):145–50

Evaluation of transit–time and electromagnetic flow measurement in a chronically instrumented nonhuman primate model. Koenig SC, et al. **J Invest Surg** 1996 Nov–Dec;9(6):455–61

Hemodynamic, renal, and hormonal responses to lower body positive pressure in human subjects. Mannix ET, et al. **J Lab Clin Med** 1996 Dec;128(6):585–93

MR flow quantification using RACE: clinical application to the carotid arteries. Möller HE, et al. **J Magn Reson Imaging** 1996 May–Jun;6(3):503–12

Hemodynamic comparison of mild and severe preeclampsia: concept of stroke systemic vascular resistance index. Scardo J, et al. **J Matern Fetal Med** 1996 Sep–Oct; 5(5):268–72

Median preoptic neurones projecting to the supraoptic nucleus are sensitive to haemodynamic changes as well as to rise in plasma osmolality in rats. Aradachi H, et al. **J Neuroendocrinol** 1996 Jan;8(1):35–43

Management of intracranial hemodynamics in the adult: a research analysis of head positioning and recommendations for clinical practice and future research. Simmons BJ. **J Neurosci Nurs** 1997 Feb;29(1):44–9 (31 ref.)

Hemodynamic indices of myocardial dysfunction correlate with dipyridamole thallium–201 SPECT. Chin BB, et al. **J Nucl Med** 1996 May;37(5):723–9

The roles of adenosine in regulating the respiratory and cardiovascular systems in chronically hypoxic, adult rats. Thomas T, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):439–47

Possible involvement of glucocorticoids in the modulation of interleukin–1–induced cardiovascular responses in rats. Watanabe T, et al. **J Physiol (Lond)** 1996 Feb 15;491 (Pt 1):231–9

Acute increase of myocardial workload, hemodynamic instability, and myocardial histological changes induced by brain death in the cat. Bruinsma GJ, et al. **J Surg Res** 1997 Feb 15;68(1):7–15

Prostaglandin E1 resuscitates hepatic organic anion transport independent of its hemodynamic effect after warm ischemia. Shinohara H, et al. **J Surg Res** 1997 Feb 15; 68(1):56–62

The influence of resuscitation on hemodynamics and oxygen radical–induced reperfusion injury after arterialized liver transplantation in the rat. Walcher F, et al. **J Surg Res** 1996 Sep;65(1):9–14

Hemodynamic changes after complete unilateral ureteral obstruction in the young lamb. Kim KM, et al. **J Urol** 1997 Sep;158(3 Pt 2):1090–3

Effects of vascular stent surface area and hemodynamics on intimal thickening [see comments] Newman VS, et al. **J Vasc Interv Radiol** 1996 May–Jun;7(3):387–93. Comment in: J Vasc Interv Radiol 1996 Nov–Dec;7(6):948–9.

Cytokine inhibitors in patients with heart failure and impaired functional capacity. Missov E, et al. **Jpn Circ J** 1997 Sep; 61(9):749–54

Hemodynamic factors regulating blood pressure during sleep in patients with mild essential hypertension. Tochikubo O, et al. **Jpn Circ J** 1997 Jan;61(1):25–37

The effects of different light intensities during the daytime on the forearm blood flow and mean body temperature in the evening. Aizawa S, et al. **Jpn J Physiol** 1996 Dec; 46(6):481–4

Role of atrial natriuretic factor, hemodynamic changes and renal nerves in the renal effects of intraperitoneal morphine in conscious rats. Flores O, et al. **Kidney Blood Press Res** 1997;20(1):18–24

Rapid increase in inspired desflurane concentration does not elicit a hyperdynamic circulatory response in the pig. Karzai W, et al. **Lab Anim** 1997 Jul;31(3):279–82

The nature of spatiotemporal changes in cerebral hemodynamics as manifested in functional magnetic resonance imaging. Mitra PP, et al. **Magn Reson Med** 1997 Apr;37(4):511–8

Self–organising discovery, recognition and prediction of haemodynamic patterns in the intensive care unit. Spencer RG, et al. **Med Biol Eng Comput** 1997 Mar;35(2):117–23

Computation of vascular flow dynamics from intravascular ultrasound images. Chandran KB, et al. **Med Eng Phys** 1996 Jun;18(4):295–304

A lumped parameter model to evaluate the fluid dynamics of different coronary bypasses. Pietrabissa R, et al. **Med Eng Phys** 1996 Sep;18(6):477–84

Effect of transvascular fluid exchange on pressure–flow relationship in tumors: a proposed mechanism for tumor blood flow heterogeneity. Netti PA, et al. **Microvasc Res** 1996 Jul;52(1):27–46

Role of cardiac renin–angiotensin system in the development of pressure–overload left ventricular hypertrophy in rats with abdominal aortic constriction. Reddy DS, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):1–11

Respiratory and haemodynamic modifications during right heart catheterization in COLD patients. Scalvini S, et al. **Monaldi Arch Chest Dis** 1995 Dec;50(6):438–42

A study on regulating factors of plasma refilling during hemodialysis. Iimura O, et al. **Nephron** 1996;74(1):19–25

A biomathematical model of intracranial arteriovenous malformations based on electrical network analysis: theory and hemodynamics. Hademenos GJ, et al. **Neurosurgery** 1996 May;38(5):1005–14; discussion 1014–5

Computer modeling of intracranial saccular and lateral aneurysms for the study of their hemodynamics [letter; comment] Steiger HJ, et al. **Neurosurgery** 1997 Jul; 41(1):326–7. Comment on: Neurosurgery 1995 Oct;37(4):774–82; discussion 782–4.

Hemodynamic instability after carotid endarterectomy: risk factors and associations with operative complications. Wong JH, et al. **Neurosurgery** 1997 Jul;41(1):35–41; discussion 41–3

Cerebral hemodynamic and metabolic changes caused by brain retraction after aneurysmal subarachnoid hemorrhage. Yundt KD, et al. **Neurosurgery** 1997 Mar; 40(3):442–50; discussion 450–1

A study of the contribution of changes in the cerebral blood volume to the haemodynamic response to anoxia in rat brain. Jones RA, et al. **NMR Biomed** 1996 Sep;9(6):233–40

Changes in hemodynamics, ventricular remodeling, and ventricular contractility during normal pregnancy: a longitudinal study. Gilson GJ, et al. **Obstet Gynecol** 1997 Jun;89(6):957–62

Hemodynamic and sympathetic nerve responses to painful stimuli in normotensive and borderline hypertensive subjects. Schobel HP, et al. **Pain** 1996 Aug;66(2–3):117–24

Influence of twist on vein and PTFE graft hemodynamics: an ex vivo experimental study. Karacagil S, et al. **Panminerva Med** 1997 Jun;39(2):95–9

Head–up tilt test: a highly sensitive, specific test for children with unexplained syncope. Alehan D, et al. **Pediatr Cardiol** 1996 Mar–Apr;17(2):86–90

Supranormal cardiac output in the dopamine– and dobutamine–dependent preterm infant. Lopez SL, et al. **Pediatr Cardiol** 1997 Jul–Aug;18(4):292–6

Echocardiographic evidence of improved hemodynamics during inhaled nitric oxide therapy for persistent pulmonary hypertension of the newborn. Ochikubo CG, et al. **Pediatr Cardiol** 1997 Jul–Aug;18(4):282–7

The influence of extracorporeal membrane oxygenation on cerebral oxygenation and hemodynamics in normoxemic and hypoxemic piglets. Liem KD, et al. **Pediatr Res** 1996 Feb;39(2):209–15

The effects of systemic hypotension on postnatal intestinal hemodynamics and oxygenation. Nowicki PT, et al. **Pediatr Res** 1996 Jan;39(1):105–11

Nitric oxide contributes to surfactant–induced vasodilation in surfactant–depleted newborn piglets. Yu XQ, et al. **Pediatr Res** 1997 Aug;42(2):151–6

Cardiorespiratory parameters and respiratory reflexes in rabbits during hyperthermia. Javorka K, et al. **Physiol Res** 1996;45(6):439–47

Blood system response of chickens to changes in environmental temperature. Yahav S, et al. **Poult Sci** 1997 Apr;76(4):627–33

The influence of open leaflet geometry on the haemodynamic flow characteristics of polyurethane trileaflet artificial heart valves. Corden J, et al. **Proc Inst Mech Eng [H]** 1996; 210(4):273–87

Stress echocardiography for evaluation of hemodynamics: valvular heart disease, prosthetic valve function, and pulmonary hypertension. Bach DS. **Prog Cardiovasc Dis** 1997 May–Jun;39(6):543–54 (37 ref.)

Aging or disease? Cardiovascular reactivity in Finnish men over the middle years. Jennings JR, et al. **Psychol Aging** 1997 Jun;12(2):225–38

Estradiol, progesterone and cardiovascular response to stress. Sita A, et al. **Psychoneuroendocrinology** 1996 Apr; 21(3):339–46

Hemodynamic responses to laboratory stressors in children and adolescents: the influences of age, race, and gender. Allen MT, et al. **Psychophysiology** 1997 May;34(3):329–39

Haemodynamic effects of descending aortic occlusion during cardiopulmonary resuscitation. Deakin CD, et al. **Resuscitation** 1996 Nov;33(1):49–52

A comparison of prolonged manual and mechanical external chest compression after cardiac arrest in dogs. Wik L, et al. **Resuscitation** 1996 Oct;32(3):241–50

Haemodynamic response to tracheal intubation or laryngeal mask insertion in hypertensive patients. Rooke GO, et al. **S Afr J Surg** 1997 Feb;35(1):24–6

Hemodynamic studies and esophageal morphometric analyses in portal hypertensive rats with left adrenal vein ligation. Lee FY, et al. **Scand J Gastroenterol** 1997 Jul;32(7):725–30

Haemodynamic changes in early phase reflex sympathetic dystrophy. Matsumura H, et al. **Scand J Plast Reconstr Surg Hand Surg** 1996 Jun; 30(2):133–8

The cerebral regulation of cardiovascular and respiratory functions. Harper RM. **Semin Pediatr Neurol** 1996 Mar; 3(1):13–22 (81 ref.)

Reduction of blood loss during spinal surgery by epidural blockade under normotensive general anesthesia. Kakiuchi M. **Spine** 1997 Apr 15;22(8):889–94

Hemodynamics during laparoscopic extra– and intraperitoneal insufflation. An experimental study. Bannenberg JJ, et al. **Surg Endosc** 1997 Sep;11(9):911–4

Laparoscopic cholecystectomy using abdominal wall retraction. Hemodynamics and gas exchange, a comparison with conventional pneumoperitoneum. Meijer DW, et al. **Surg Endosc** 1997 Jun;11(6):645–9

Hemodynamic and respiratory changes during laparoscopic cholecystectomy with high and reduced intraabdominal pressure. Rishimani AS, et al. **Surg Laparosc Endosc** 1996 Jun;6(3):201–4

Anti–interleukin–8 monoclonal antibody reduces free radical production and improves hemodynamics and survival rate in endotoxic shock in rabbits. Carvalho GL, et al. **Surgery** 1997 Jul;122(1):60–8

HEMODYNAMICS

Hemodynamic effects of isovolemic hemodilution during descending thoracic aortic cross clamping and lower torso reperfusion. Poli de Figueiredo LF, et al. **Surgery** 1997 Jul;122(1):32–8

Biological consequences of thrombin receptor deficiency in mice. Darrow AL, et al. **Thromb Haemost** 1996 Dec; 76(6):860–6

Doppler sensors and harnesses for cardiac and peripheral arterial flow monitoring. Arbeille P. **Ultrasound Med Biol** 1997;23(3):415–23

Color flow mapping and hemodynamics [editorial] Beach KW. **Ultrasound Med Biol** 1997;23(3):319

Controlled cross circulation in dogs: effects on donor hemodynamics. Kuntz CA, et al. **Vet Surg** 1996 Jan–Feb; 25(1):29–39

Cardiorespiratory consequences to hobble restraint. Roeggla M, et al. **Wien Klin Wochenschr** 1997 May 23; 109(10):359–61

[Changes in cardiac function during recreational diving] Boussuges A, et al. **Arch Mal Coeur Vaiss** 1997 Feb; 90(2):263–8 (42 ref.) (Eng. Abstr.) **(Fre)**

[First experience in treatment of terminal cardiac insufficiency using multisite stimulation] Cazeau S, et al. **Bull Acad Natl Med** 1996 Dec;180(9):2065–75; discussion 2075–8 (Eng. Abstr.) **(Fre)**

[Hyperdynamic hemodynamics following high-dose interleukin 2–interferon alpha therapy in patients with metastatic renal cell carcinoma. Immunotherapy as a clinical sepsis model?] Finck–Seelen, et al. **Anaesthesist** 1996 Dec;45(12):1171–8 (Eng. Abstr.) **(Ger)**

[The effect of preischemic blood sugar concentration on hemodynamics and regional organ blood flow during and following cardiopulmonary resuscitation (CPR) in swine] Gervais HW, et al. **Anaesthesist** 1996 Oct;45(10):941–9 (Eng. Abstr.) **(Ger)**

[Experimental simulation of dyskinetic heart wall aneurysms] Hadland H, et al. **Biomed Tech (Berl)** 1996 Jul–Aug; 41(7–8):190–5 (Eng. Abstr.) **(Ger)**

[Sleep—respiration—hemodynamics] Grote L. **Internist (Berl)** 1996 May;37(5):470–82 (76 ref.) **(Ger)**

[Primary chronic open angle glaucoma—are there vascular risk factors?] Drance SM. **Klin Monatsbl Augenheilkd** 1996 Jun;208(6):A9–13 (58 ref.) **(Ger)**

[Rhythmic circulatory dysregulation in stiff man syndrome] Diedrich U. **Nervenarzt** 1996 Dec;67(12):1027–9 (Eng. Abstr.) **(Ger)**

[Hemodynamically-induced syncope] Brunner–La Rocca HP, et al. **Ther Umsch** 1997 Mar;54(3):127–34 (20 ref.) (Eng. Abstr.) **(Ger)**

[Modification of cardiopulmonary performance parameters in patients with obstructive sleep apnea treated with nCPAP therapy] Konermann M, et al. **Wien Med Wochenschr** 1996;146(13–14):340–3 (Eng. Abstr.) **(Ger)**

[Cardiopulmonary normal values in geriatrics] Gassmann KG, et al. **Z Gerontol Geriatr** 1997 May–Jun;30(3):193–9 (55 ref.) (Eng. Abstr.) **(Ger)**

[Pathogenesis of venous congestion symptoms after Fontan operation] Buchhorn R, et al. **Z Kardiol** 1997 Jan; 86(1):26–34 (Eng. Abstr.) **(Ger)**

[Transesophageal Doppler echocardiography assessment of mitral valve insufficiency: Comparison of jet area, pulmonary venous flow profile, proximal jet diameter, maximal regurgitation flow rate and regurgitation orifice area with angiography] Frieske R, et al. **Z Kardiol** 1997 May;86(5):346–53 (Eng. Abstr.) **(Ger)**

[Endothelins in cardiovascular diseases] Kähler J, et al. **Z Kardiol** 1997 Jun;86(6):406–16 (72 ref.) (Eng. Abstr.) **(Ger)**

[Overestimation of regurgitation velocities of intact mechanical heart valve prostheses and other small orifices with 10 mm2 Doppler echocardiography] Lepper W, et al. **Z Kardiol** 1997 May;86(5):354–62 (Eng. Abstr.) **(Ger)**

[Cardiovascular effects of thyroid hormones] Mohr–Kahaly S, et al. **Z Kardiol** 1996;85 Suppl 6:219–31 (126 ref.) (Eng. Abstr.) **(Ger)**

[Isovolemic hemodilution in coronary heart disease—clinical and hemodynamic effects] Neubaur TE, et al. **Z Kardiol** 1996 Jan;85(1):1–5 (Eng. Abstr.) **(Ger)**

[Early postoperative changes in systolic and diastolic function at rest and during stress in patients with hypertrophic obstructive cardiomyopathy (HOCM) after myectomy] Schwartzkopff B, et al. **Z Kardiol** 1997 Jun;86(6):438–49 (Eng. Abstr.) **(Ger)**

[Measuring stress hemodynamics in pulmonary circulation during the inpatient phase after myocardial infarct: a rightfully "forgotten" evaluation?] Spielberg C, et al. **Z Kardiol** 1997 Jul;86(7):485–95 (Eng. Abstr.) **(Ger)**

[Laparoscopic cholecystectomy—effect of position changes and CO2 pneumoperitoneum on hemodynamic, respiratory and endocrinologic parameters] Berg K, et al. **Zentralbl Chir** 1997;122(5):395–404 (Eng. Abstr.) **(Ger)**

[Hypertension and peripheral arterial hemodynamics] Milio G, et al. **Minerva Cardioangiol** 1997 May;45(5):193–6 (Eng. Abstr.) **(Ita)**

[Factors affecting exercise capacity after coronary bypass grafting] Murabayashi T, et al. **Kyobu Geka** 1997 Jun; 50(6):450–8 (Eng. Abstr.) **(Jpn)**

[Changes in ventilation efficacy due to pulmonary resection and postoperative exercise restricting factors] Akiyama H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):2040–9 (Eng. Abstr.) **(Jpn)**

[Experimental study on the effect of simple percutaneous left heart bypass (LHB) in cases of brain death—hemodynamic and histological evaluation] Kokaji K. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):974–84 (Eng. Abstr.) **(Jpn)**

[Effects of ischemic preconditioning on the recovery of myocardial function after unprotected ischemia and cardioplegia in the isolated and crystalloid perfused rat hearts] Otani H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jan;45(1):23–30 (Eng. Abstr.) **(Jpn)**

[Evaluation and index of age-related change in circulatory function] Shimada K. **Nippon Ronen Igakkai Zasshi** 1996 Nov;33(11):820–4 **(Jpn)**

[Evaluation of hemodynamics of pelvic veins in pregnant women by the ultrasonic pulsed doppler flow velocity analysis] Sakai M, et al. **Nippon Sanka Fujinka Gakkai Zasshi** 1996 Apr;48(4):263–8 (Eng. Abstr.) **(Jpn)**

[Measurements of cerebral hemodynamic and metabolic changes by near-infrared spectroscopy] Hoshi Y. **No To Hattatsu** 1996 Mar;28(2):146–8 (Eng. Abstr.) **(Jpn)**

[Regulation of antithrombogenicity in endothelium by hemodynamic forces] Kawai Y, et al. **Rinsho Byori** 1997 Apr;45(4):315–20 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Evaluation of changes in pulmonary vein compliance in prognosis of clinical results after mitral valve replacement] Pogorzelska H, et al. **Przegl Lek** 1995;52(12):594–8 (Eng. Abstr.) **(Pol)**

[Analysis of hemodynamic changes in patients with essential arterial hypertension at rest and during exercise] Stępień K, et al. **Przegl Lek** 1997;54(3):189–93 (49 ref.) (Eng. Abstr.) **(Pol)**

[The analysis of systemic hemodynamics and of myocardial functional status in patients in critical states] Ivanov GG. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):10–3 (Eng. Abstr.) **(Rus)**

[Status of the renal arterial system in experimental aortic coarctation and after its repair] Shormanov SV, et al. **Arkh Patol** 1996 Jan–Feb;58(1):37–41 (Eng. Abstr.) **(Rus)**

[Prediction of G-load (Gz) tolerance based on various functional tests] Suvorov PM, et al. **Aviakosm Ekolog Med** 1996;30(5):4–9 (Eng. Abstr.) **(Rus)**

[The role of prostaglandin E2 in the neurohumoral regulation of cardiovascular system] Savchuk VI, et al. **Biull Eksp Biol Med** 1997 May;123(5):538–41 **(Rus)**

[Changes in the systemic hemodynamics during electric stimulation of ventral regions of the medulla oblongata] Tkachenko BI, et al. **Biull Eksp Biol Med** 1996 Jun; 121(6):613–8 **(Rus)**

[Characterization of the accuracy of mean values of the basic hemodynamic parameters during exertion tests] Vilkov VG, et al. **Fiziol Cheloveka** 1996 Nov–Dec;22(6):111–7 **(Rus)**

["Middle molecules" and products of lipid peroxidation as a system of non-specific regulators of hemodynamics in competitive skiiers] Volchegorskiĭ IA, et al. **Fiziol Cheloveka** 1996 Nov–Dec;22(6):106–10 **(Rus)**

[Intraoperative hemodynamics in relative living donors] Belorusov OS, et al. **Khirurgiia (Mosk)** 1997;(5):46–8 (Eng. Abstr.) **(Rus)**

[Stress-induced hemodynamic changes in shepherds during migration and winter stay in the mountains] Bekbolotova AK, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):15–8 **(Rus)**

[Changes in electroencephalograms and brain blood filling in guinea pigs in experimental bronchospasm] Karashurov SE. **Patol Fiziol Eksp Ter** 1996 Apr–Jun;(2):9–11 (Eng. Abstr.) **(Rus)**

[Mechanism of hemodynamic effects of right cardiac shunting] Sokolov MV, et al. **Patol Fiziol Eksp Ter** 1997 Jul–Sep;(3):13–5 (Eng. Abstr.) **(Rus)**

[Hemodynamic and respiratory changes during lung transplant] Planas A, et al. **Rev Esp Anestesiol Reanim** 1997 Jun–Jul;44(6):218–22 (Eng. Abstr.) **(Spa)**

[Pulmonary arterial hypertension and heart transplantation: hemodynamic evolution and survival] Delgado Jiménez JF, et al. **Rev Esp Cardiol** 1996 Nov;49(11):804–9 (Eng. Abstr.) **(Spa)**

[Relation of the levels of systemic prostaglandins and hemodynamic changes present during orthotopic transplant of the liver] Rull R, et al. **Rev Esp Enferm Dig** 1996 Dec; 88(12):840–6 (Eng. Abstr.) **(Spa)**

RADIATION EFFECTS

The effects of different light intensities during the daytime on the forearm blood flow and mean body temperature in the evening. Aizawa S, et al. **Jpn J Physiol** 1996 Dec; 46(6):481–4

Late response to whole-lung irradiation alone and with whole-body hyperthermia in dogs. Gillette SM, et al. **Radiat Res** 1997 Feb;147(2):257–62

HEMOFILTRATION

Cytokines clearance during venovenous hemofiltration in the trauma patient. Sanchez-Izquierdo JA, et al. **Am J Kidney Dis** 1997 Oct;30(4):483–8

Continuous arteriovenous hemofiltration attenuates polymorphonuclear leukocyte phagocytosis in porcine intra-abdominal sepsis. DiScipio AW, et al. **Am J Surg** 1997 Mar;173(3):174–80

Modified ultrafiltration after cardiopulmonary bypass in pediatric cardiac surgery. Draaisma AM, et al. **Ann Thorac Surg** 1997 Aug;64(2):521–5

Isolation of "myocardial depressant factor(s)" from the ultrafiltrate of heart failure patients with acute renal failure. Blake P, et al. **ASAIO J** 1996 Sep–Oct;42(5):M911–5

Hemofiltration in a cardiac intensive care unit: time for a rational approach. Tsang GM, et al. **ASAIO J** 1996 Sep–Oct;42(5):M710–3

The effects of temperature on the filtration of diluted blood through 3 mu m and 5 mu m filters. Adams RA, et al. **Biorheology** 1995 Nov–Dec;32(6):643–53

Significant reduction of factor D and immunosuppressive complement fragment Ba by hemofiltration. Kaiser JP, et al. **Blood Purif** 1995 Nov–Dec;13(6):314–21

Blood purification procedures for acute renal failure: convenient strategy related to clinical conditions. Meloni C, et al. **Blood Purif** 1996;14(3):242–8

Continuous haemofiltration and haemodiafiltration for acute renal failure in severely burned patients. Leblanc M, et al. **Burns** 1997 Mar;23(2):160–5

Hemostatic alterations during continuous venovenous hemofiltration in acute renal failure. Stefanidis I, et al. **Clin Nephrol** 1996 Sep;46(3):199–205

Renal considerations, dialysis, and ultrafiltration during cardiopulmonary bypass. Sutton RG. **Int Anesthesiol Clin** 1996 Spring;34(2):165–76 (42 ref.)

Predilution hemofiltration: a new technology applied to an old therapy. Ledebo I. **Int J Artif Organs** 1995 Nov; 18(11):735–42 (33 ref.)

Evaluation of myoglobin clearance during continuous hemofiltration in a swine model of acute renal failure. Nicolau DP, et al. **Int J Artif Organs** 1996 Oct; 19(10):578–81

Cytokine removal and cardiovascular hemodynamics in septic patients with continuous venovenous hemofiltration. Heering P, et al. **Intensive Care Med** 1997 Mar;23(3):288–96

Effect of hemofiltration on hemodynamics and systemic concentrations of anaphylatoxins and cytokines in human sepsis. Hoffmann JN, et al. **Intensive Care Med** 1996 Dec; 22(12):1360–7

A randomized cross-over comparison of the hemodynamic response to intermittent hemodialysis and continuous hemofiltration in ICU patients with acute renal failure. Misset B, et al. **Intensive Care Med** 1996 Aug;22(8):742–6

Critical role of the extracorporeal blood temperature in the hemodynamic response during hemofiltration. van Kuijk WH, et al. **J Am Soc Nephrol** 1997 Jun;8(6):949–55

Pharmacokinetics of ceftriaxone in patients undergoing continuous veno-venous hemofiltration. Kroh UF, et al. **J Clin Pharmacol** 1996 Dec;36(12):1114–9

Continuous venovenous haemodiafiltration in the acute phase of neonatal maple syrup urine disease. Jouvet P, et al. **J Inherit Metab Dis** 1997 Aug;20(4):463–72

Intravenous ribavirin therapy in a neonate with disseminated adenovirus infection undergoing extracorporeal membrane oxygenation: pharmacokinetics and clearance by hemofiltration. Aebi C, et al. **J Pediatr** 1997 Apr; 130(4):612–5

Daily hemofiltration in severe heart failure. Iorio L, et al. **Kidney Int Suppl** 1997 Jun;59:S62–5

Intra-arterial chemotherapy with concomitant hemofiltration (chemofiltration) for treatment of loco-regional or pelvic metastases from malignant melanoma. Gutman M, et al. **Melanoma Res** 1996 Apr;6(2):167–71

Continuous hemofiltration in the treatment of acute renal failure [see comments] Forni LG, et al. **N Engl J Med** 1997 May 1;336(18):1303–9 (28 ref.). Comment in: N Engl J Med 1997 Sep 4;337(10):712–3; discussion 713–4. Comment in: N Engl J Med 1997 Sep 4;337(10):713; discussion 713–4.

Continuous hemofiltration [letter; comment] Hostetter TH, et al. **N Engl J Med** 1997 Sep 4;337(10):712–3; discussion 713–4. Comment on: N Engl J Med 1997 May 1;336(18):1303–9.

Continuous hemofiltration [letter; comment] van Bommel EF, et al. **N Engl J Med** 1997 Sep 4;337(10):713; discussion 713–4. Comment on: N Engl J Med 1997 May 1;336(18):1303–9.

Pharmacokinetics of antimicrobial agents in anuric patients during continuous venovenous haemofiltration. Joos B, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1582–5

Comparison of lactate and bicarbonate buffered haemofiltration fluids: use in critically ill patients. Thomas AN, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1212–7

Heparin-associated thrombocytopenia during continuous venovenous hemofiltration [letter] Berlot G, et al. **Nephron** 1996;74(1):241–2

Continuous hemofiltration in children with abdominal complications of hemolytic-uremic syndrome [letter] Cavagnaro F, et al. **Nephron** 1996;74(2):433–4

Hemofiltration in multiorgan failure syndrome secondary to sepsis: a critical analysis of heterogeneity [editorial] Gotlob L. **Nephron** 1996;73(2):125–30 (86 ref.)

Continuous pleural hemofiltration in a very small pre-term infant [letter] Jodorkovsky RA, et al. **Pediatr Nephrol** 1996 Dec;10(6):811–2

Conventional haemofiltration during routine coronary bypass surgery. Babka RM, et al. **Perfusion** 1997 May;12(3):187–92

Protective effects of a thromboxane synthetase inhibitor and continuous arteriovenous hemofiltration in rat endotoxic shock. Heidemann SM, et al.
Prostaglandins Leukot Essent Fatty Acids 1997 Jun; 56(6):473–8

Acute renal failure in patients with kidney transplant: continuous versus intermittent renal replacement therapy. Ronco C, et al. **Ren Fail** 1996 May;18(3):461–70 (36 ref.)

Can hemodialysis technique modify the hypercatabolic state? Sunder-Plassmann G, et al. **Ren Fail** 1996 May; 18(3):395–404 (70 ref.)

Impact of continuous hemofiltration on cytokines and cytokine inhibitors in oliguric patients suffering from systemic inflammatory response syndrome. van Bommel EF, et al. **Ren Fail** 1997 May;19(3):443–54

Release of interleukin-8 and calprotectin during and after paediatric cardiopulmonary bypass with and without ultrafiltration. Saatvedt K, et al.
Scand J Thorac Cardiovasc Surg 1996;30(2):53–9

Acute dialysis and continuous renal replacement: the emergence of new technology involving the nephrologist in the intensive care setting. Yagi N, et al.
Semin Nephrol 1997 Jul;17(4):306–20 (126 ref.)

Parkinsonian syndrome in a dialysis-supported patient receiving high-dose chemotherapy for multiple myeloma [letter] Fleming DR, et al. **South Med J** 1997 Mar; 90(3):364–5

Evaluation of the abnormal platelet function in von Willebrand disease by the blood filtration test. Pareti FI, et al. **Thromb Haemost** 1996 Sep;76(3):460–8

More on kininogen measurements in platelet concentrates that are white cell (WBC) reduced with WBC-reduction filters [letter; comment] [see comments] Colman RW, et al. **Transfusion** 1996 Oct;36(10):939–41. Comment on: Transfusion 1995 Nov-Dec;35(11):967. Comment in: Transfusion 1996 Oct;36(10):852–3.

Altered filterability of fresh sickle cell trait donor blood [letter] Ould Amar AK, et al. **Vox Sang** 1997;73(1):55–6

[Methods of continuous extracorporeal replacement of renal function] Opatrný K Jr. **Vnitr Lek** 1996 Dec;42(12):818–24 (Eng. Abstr.) **(Cze)**

[Renal problems in elderly patients after interventions on heart, thorax and/or large vessels] Eichler I, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:1013–4 (Eng. Abstr.) **(Ger)**

[Systemic inflammatory reactions to extracorporeal therapy measures (I): Hemodialysis and hemofiltration] Schlee H, et al. **Wien Klin Wochenschr** 1997 May 9;109(9):301–11 (78 ref.) (Eng. Abstr.) **(Ger)**

[The duration of the benefits of ultrafiltration in patients with moderate heart failure] Assanelli E, et al. **Cardiologia** 1997 Jan;42(1):95–8 **(Ita)**

[Perioperative management of uremia and fluid balance in patients with compromised renal function undergoing open heart surgery] Tanaka S, et al. **Kyobu Geka** 1997 Apr; 50(4):286–91 (Eng. Abstr.) **(Jpn)**

[Acute renal failure following surgical insult] Hirasawa H, et al. **Nippon Geka Gakkai Zasshi** 1996 Sep;97(9):765–70 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Pharmacological correction of low cardiac output syndrome in hemofiltration] Nikiforov IuV, et al.
Anesteziol Reanimatol 1997 May-Jun;(3):87–9 (Eng. Abstr.) **(Rus)**

[Extrarenal purification of blood in patients with multiple organ failure: results and prognostic criteria] Nikiforov IuV, et al. **Anesteziol Reanimatol** 1997 May-Jun;(3):42–5 (Eng. Abstr.) **(Rus)**

[Plasma contents of cytokines (TNF-alpha, IL-1 beta, IL-6) and their clearance during continuous hemofiltration in patients with sepsis and multiple organ failure] Timokhov VS, et al. **Anesteziol Reanimatol** 1997 May-Jun;(3):59–62 (Eng. Abstr.) **(Rus)**

[Continuous hemofiltration. Development of an experimental model] Gastiasoro Cuesta E, et al. **An Esp Pediatr** 1996 Nov;45(5):514–8 (Eng. Abstr.) **(Spa)**

ADVERSE EFFECTS

Ventricular tachycardia after ultrafiltration during cardiopulmonary bypass [letter] Terada Y, et al.
Ann Thorac Surg 1997 Apr;63(4):1215–6

Profound hypercalcemia in continuous veno-venous hemofiltration dialysis with trisodium citrate anticoagulation and hepatic failure [letter] Nowak MA, et al. **Clin Chem** 1997 Feb;43(2):412–3

Popliteal cysts from advanced amyloidosis in long-term haemofiltration/haemodiafiltration. Dantoine T, et al.
Nephrol Dial Transplant 1997 Jul;12(7):1512–5

[Acute ischemia of the leg as a result of femoral artery injury in the course of continuous arteriovenous hemofiltration] Michalik M, et al. **Wiad Lek** 1997;50(1-3):47–9 (Eng. Abstr.) **(Pol)**

HISTORY

Kinetics of hemodiafiltration. II. Clinical characterization of a new blood cleansing modality. 1975 [classical article] Henderson LW, et al. **J Am Soc Nephrol** 1997 Mar; 8(3):494–508; discussion 494–5, 497–500

INSTRUMENTATION

An oxygenator with a built-in hemoconcentrator. In vitro performance and pre clinical in vivo assessment of the final prototype. Nishida H, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M593–7

Dialysis. Soltys M. **Biomed Instrum Technol** 1997 Jul-Aug; 31(4):410–2

Continuous venovenous haemofiltration in neonates with renal insufficiency resulting from low cardiac output syndrome after cardiac surgery. Leyh RG, et al.
Cardiovasc Surg 1996 Aug;4(4):520–5

Comparison of aluminum removal between hemodialysis with polycarbonate low flux membrane and hemofiltration with polysulfone high flux membrane in end-stage renal failure patients [letter] Klemm A, et al. **Clin Nephrol** 1997 Feb; 47(2):133–4

Determination of the red blood cell ability to traverse cylindrical pores. Abatti PJ. **IEEE Trans Biomed Eng** 1997 Mar;44(3):209–12

Urea removal by neonatal hemo(dia)filters in hyperazotemic rabbits. Gouyon JB, et al. **Intensive Care Med** 1997 Jun; 23(6):677–83

Isolation of haemorphin-related peptides from filter membranes collected in connection with haemofiltration of human subjects. Nyberg G, et al. **J Chromatogr A** 1996 Feb 2;723(1):43–9

Haemodiafiltration with sorbent-regenerated ultrafiltrate as replacement fluid: a multicenter study. de Francisco AL, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):528–34

Use of pump-assisted hemofiltration in children with acute renal failure. Ellis EN, et al. **Pediatr Nephrol** 1997 Apr; 11(2):196–200

[Use of continuous veno-venous high volume hemofiltration (CVVHVH) in patients with multiple organ failure. Principle and applications] Lange R, et al.
Zentralbl Chir 1996;121(7):535–40; discussion 541–4 (Eng. Abstr.) **(Ger)**

METHODS

Regional chemotherapy with blood filtration for non resectable liver metastases. Taton G. **Acta Chir Belg** 1997 Apr;97(2):60–4 (26 ref.)

First results of a clinical pilot study on intraarterial chemotherapy with haemofiltration of locally advanced gastrointestinal cancers. Taton G, et al. **Acta Chir Belg** 1996 Sep-Oct;96(5):206–10

Modified ultrafiltration reduces postoperative morbidity after cavopulmonary connection. Koutlas TC, et al.
Ann Thorac Surg 1997 Jul;64(1):37–42; discussion 43

Derivation of sieving coefficients to determine the efficacy of the hemoconcentrator in removal of four inflammatory mediators produced during cardiopulmonary bypass. Clar A, et al. **ASAIO J** 1997 May-Jun;43(3):163–70

Haemofiltration: how to do it. Barton IK, et al.
Br J Hosp Med 1997 Mar 5-18;57(5):188–93

Hemofiltration in very severe hypothermia with favorable outcome. Brodersen HP, et al. **Clin Nephrol** 1996 Jun; 45(6):413–5

Erythropoietin in patients with acute renal failure and continuous veno-venous haemofiltration. Morgera S, et al. **Int Urol Nephrol** 1997;29(2):245–50

Continuous venovenous haemofiltration using polyacrylonitrile filters does not activate contact system and intrinsic coagulation pathways. Salmon J, et al.
Intensive Care Med 1997 Jan;23(1):38–43

Use of the modified technique of ultrafiltration in pediatric open-heart surgery: a prospective study. Ad N, et al.
Isr J Med Sci 1996 Dec;32(12):1326–31

Novel polymeric solid-phase extraction material for complex biological matrices. Portable and disposable artificial kidney. Davankov VA, et al.
J Chromatogr B Biomed Appl 1997 Feb 7;689(1):117–22

Removal of branched-chain amino acids and alpha-ketoisocaproate by haemofiltration and haemodiafiltration. Gouyon JB, et al.
J Inherit Metab Dis 1996;19(5):610–20

Effective hemodialysis and hemofiltration driven by an extracorporeal membrane oxygenation pump in infants with hyperammonemia. Summar M, et al. **J Pediatr** 1996 Mar; 128(3):379–82

Continuous hemofiltration [letter; comment] Hsu CY, et al. **N Engl J Med** 1997 Sep 4;337(10):713; discussion 713–4. Comment on: N Engl J Med 1997 May 1;336(18):1303–9.

The effect of sodium and ultrafiltration modelling on plasma volume changes and haemodynamic stability in intensive care patients receiving haemodialysis for acute renal failure: a prospective, stratified, randomized, cross-over study. Paganini EP, et al. **Nephrol Dial Transplant** 1996;11 Suppl 8:32–7

Comparison of a lactate-versus acetate-based hemofiltration replacement fluid in patients with acute renal failure. Morgera S, et al. **Ren Fail** 1997 Jan;19(1):155–64

Five years of experience with percutaneous cannula for establishing venous bypass access in orthotopic liver transplantation. Frenette L, et al. **Transplant Proc** 1996 Oct; 28(5):2974–7

Prestorage leukocyte reduction with in-line filtration of whole blood: evaluation of red cells and plasma storage. Rapaille A, et al. **Vox Sang** 1997;73(1):28–35

[Determination of total free erythrocyte carnitine in an ultrafiltrate of hemolysate] Iordache A, et al.
Pathol Biol (Paris) 1996 Oct;44(8):720–3 (Eng. Abstr.) **(Fre)**

[Intermittent hemofiltration in the treatment of acute kidney failure in glomerulonephritis patients] Milovanov IuS, et al. **Ter Arkh** 1997;69(6):27–30 (Eng. Abstr.) **(Rus)**

[Plasma myoglobin and continuous hemofiltration in patients with rhabdomyolysis and acute kidney failure] Timokhov VS, et al. **Ter Arkh** 1997;69(6):40–4 (Eng. Abstr.) **(Rus)**

[Traumatic asphyxia and continuous venovenous hemofiltration. Report of a case] Casas ML, et al.
Rev Esp Anestesiol Reanim 1997 Jan;44(1):30–2 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Out of hospital outcome and quality of life in survivors of combined acute multiple organ and renal failure treated with continuous venovenous hemofiltration/hemodiafiltration. Gopal I, et al.
Intensive Care Med 1997 Jul;23(7):766–72

STANDARDS

Predilution hemofiltration. Clinical experience and removal of small molecular weight solutes. David S, et al.
Int J Artif Organs 1995 Nov;18(11):743–50

Clinical evaluation of AK 100 ULTRA for predilution HF with on-line prepared bicarbonate substitution fluid. Comparison with HD and acetate postdilution HF. Limido D, et al. **Int J Artif Organs** 1997 Mar;20(3):153–7

STATISTICS & NUMERICAL DATA

[Survey on the practice of extrarenal hemofiltration in pediatrics] Gouyon JB, et al. **Arch Pediatr** 1996 Aug; 3(8):769–74 (Eng. Abstr.) **(Fre)**

VETERINARY

Effects of continuous venovenous hemofiltration on cardiopulmonary function in a porcine model of endotoxin-induced shock. Murphey ED, et al.
Am J Vet Res 1997 Apr;58(4):408–13

Swine model of continuous arteriovenous hemofiltration. Nicolau DP, et al. **Lab Anim Sci** 1996 Jun;46(3):355–7

HEMOFILTRATION, CONTINUOUS ARTERIOVENOUS see **HEMOFILTRATION**

HEMOGLOBIN A

ANALOGS & DERIVATIVES

Temporal changes and reversibility of carbamylated hemoglobin in renal failure. Han JS, et al.
Am J Kidney Dis 1997 Jul;30(1):36–40

Carbamylated hemoglobin in hemodialysis patients. Tarif N, et al. **Am J Kidney Dis** 1997 Sep;30(3):361–5

Specificity of hemoglobin A1c measurement by cation exchange liquid chromatography. Evaluation of a Mono S column method. Koskinen LK. **Clin Chim Acta** 1996 Sep 30;253(1-2):159–69

Carbamylated hemoglobin: a potential marker for the adequacy of hemodialysis therapy in end-stage renal failure. Davenport A, et al. **Kidney Int** 1996 Oct; 50(4):1344–51

ANALYSIS

Catalase against met-Hb excess during oximetries of dilute Hb-A samples. Ricco G, et al. **Boll Soc Ital Biol Sper** 1996 Jul-Aug;72(7-8):195–202

Specificity of hemoglobin A1c measurement by cation exchange liquid chromatography. Evaluation of a Mono S column method. Koskinen LK. **Clin Chim Acta** 1996 Sep 30;253(1-2):159–69

Decreased HbA1c levels due to sulfonamide-induced hemolysis in two IDDM patients. Tack CJ, et al.
Diabetes Care 1996 Jul;19(7):775–6

Prognostic value of hemoglobin concentration in radiotherapy for cancer of supraglottic larynx. Tarnawski R, et al. **Int J Radiat Oncol Biol Phys** 1997 Jul 15; 38(5):1007–11

Use of the Oximeter-539 WTW, equipped with a sensor Trioxmatic-300, for the functional analysis of dilute solutions of human Hb-A. Ricco G, et al.
Panminerva Med 1997 Jun;39(2):153–7

Rapid mid-trimester prenatal diagnosis of beta-thalassaemia and other haemoglobinopathies using a non-radioactive anion exchange HPLC technique--an Indian experience. Rao VB, et al. **Prenat Diagn** 1997 Aug;17(8):725–31

CHEMISTRY

Mapping cross-linking sites in modified proteins with mass spectrometry: an application to cross-linked hemoglobins. Yang T, et al. **Anal Biochem** 1996 Nov 1;242(1):55–63

Heterotropic effects of chloride on the ligation microstates of hemoglobin at constant water activity. Huang Y, et al.
Biophys J 1996 Oct;71(4):2106–16

Tension in haemoglobin revealed by Fe-His(F8) bond rupture in the fully liganded T-state. Paoli M, et al.
J Mol Biol 1997 Aug 15;271(2):161–7

A comparison of the dielectric behaviour of human haemoglobin SC with SS and AA in solution. Laogun AA, et al. **Phys Med Biol** 1997 Apr;42(4):707–15

Chimeric hemoglobins--hybrids of human and swine hemoglobin: assembly and stability of interspecies hybrids. Rao MJ, et al. **Protein Sci** 1996 May;5(5):956–65

HEMOGLOBIN A

DRUG EFFECTS

Erythropoietin reduces anemia and transfusions after chemotherapy with paclitaxel and carboplatin. Dunphy FR, et al. **Cancer** 1997 Apr 15;79(8):1623–8

GENETICS

The role of proline beta 5(A2) in the functional properties of human adult hemoglobin. Baudin V, et al. **Hemoglobin** 1996 Feb;20(1):55–62

Human haemoglobin from transgenic tobacco [letter] Dieryck W, et al. **Nature** 1997 Mar 6;386(6620):29–30

Molecular origin of the mosaic sequence arrangements of higher primate alpha–globin duplication units. Bailey AD, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5177–82

IMMUNOLOGY

Screening for colorectal cancer by immunochemical fecal occult blood testing. Saito H. **Jpn J Cancer Res** 1996 Oct; 87(10):1011–24 (89 ref.)

METABOLISM

Ubiquitin aldehyde increases adenosine triphosphate–dependent proteolysis of hemoglobin alpha–subunits in beta–thalassemic hemolysates. Shaeffer JR, et al. **Blood** 1997 Aug 1;90(3):1300–8

A comparative study on the functional properties of the wild European mouflon and domestic sheep hemoglobins. Corda M, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jul;117(3):417–20

Hemoglobin/myoglobin desaturation during speed skating. Rundell KW, et al. **Med Sci Sports Exerc** 1997 Feb; 29(2):248–58

Tissue oxygenation in patients with hemoglobinopathy H [see comments] Papassotiriou I, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):323–34. Comment in: Pediatr Hematol Oncol 1997 Jul–Aug;14(4):295–7.

Circulating transferrin receptor during erythropoietin medication of anemic patients with rheumatoid arthritis. Pettersson T, et al. **Scand J Rheumatol** 1996;25(5):321–4

PHARMACOLOGY

Stroma–free human hemoglobin A decreases R3230Ac rat mammary adenocarcinoma blood flow and oxygen partial pressure. Hahn JS, et al. **Radiat Res** 1997 Feb;147(2):185–94

TOXICITY

The cytotoxic activities of human hemoglobin and diaspirin crosslinked hemoglobin. Hsia N, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):533–51

Hemoglobin potentiates excitotoxic injury in cortical cell culture. Regan RF, et al. **J Neurotrauma** 1996 Apr; 13(4):223–31

HEMOGLOBIN A, GLYCOSYLATED

ANALYSIS

Comparison between a rapid glycohaemoglobin (HbA1c) immunoassay and other indices of glycaemic control. Le Marois E, et al. **Acta Diabetol** 1996 Sep;33(3):232–5

Relationship between home glucose testing and hemoglobin A1c in type II diabetes patients. Wieland LD, et al. **Am J Health Syst Pharm** 1997 May 1;54(9):1062–5

Glycated haemoglobin (HbA1c) measurements in subjects with haemoglobin variants, using the DCA 2000. Eaton SE, et al. **Ann Clin Biochem** 1997 Mar;34 (Pt 2):205–7

Glycated haemoglobin analysis. John WG. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):17–31 (88 ref.)

Near infrared spectroscopy of nitrosyl haemoglobin––relevance to in vivo detection of nitric oxide. Cooper CE, et al. **Biochem Soc Trans** 1996 Aug; 24(3):448S

Determination of hemoglobin A1C in normal and diabetic mice: neonatal streptozotocin–induced diabetic mice and KK–Ay mice. Kitazawa N, et al. **Biol Pharm Bull** 1996 Aug;19(8):1078–9

Capillary electrophoresis system for hemoglobin A1c determinations evaluated. Doelman CJ, et al. **Clin Chem** 1997 Apr;43(4):644–8

Immunoturbidimetric method for determination hemoglobin A1c [letter] Grey V, et al. **Clin Chem** 1996 Dec; 42(12):2046–7

Comparative evaluation of three assay systems for automated determination of hemoglobin A1c. Halwachs–Baumann G, et al. **Clin Chem** 1997 Mar;43(3):511–7

Adaptation of latex–enhanced assay for percent glycohemoglobin to a Dade Dimension analyzer. Holownia P, et al. **Clin Chem** 1997 Jan;43(1):76–84

Evaluation of the Menarini–Arkray HA 8140 hemoglobin A1c analyzer. John WG, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):968–75

Hemoglobin A1c measurement: new precise immunoassay method involving latex particle agglutination. John WG. **Clin Chem** 1996 Nov;42(11):1874–5

Electrospray mass spectrometry for measurement of glycohemoglobin [editorial; comment] Miedema K. **Clin Chem** 1997 May;43(5):705–7. Comment on: Clin Chem 1997 May;43(5):779–85.

Potential of electrospray mass spectrometry for quantifying glycohemoglobin. Roberts NB, et al. **Clin Chem** 1997 May; 43(5):771–8

An urgent use for hemoglobin A1c? [letter] Tormey WP, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1463–4

Soluble highly coloured phenylboronic acids and their use in glycohemoglobin quantification. Frantzen F, et al. **Clin Chim Acta** 1997 Jul 25;263(2):207–24

The clinical usefulness of glucated haemoglobin in diabetes care evaluated by use of a medical technology assessment strategy. Larsen ML. **Dan Med Bull** 1997 Jun;44(3):303–15 (174 ref.)

Standardization of glycated haemoglobin assays throughout the Northern region of England: a pilot study. Gibb I, et al. **Diabet Med** 1997 Jul;14(7):584–8

Impaired vibration perception threshold and long–term mean HbA1c in patients with type 1 diabetes mellitus. Kullberg CE, et al. **Diabet Med** 1996 Dec;13(12):1027–32

Possibilities and advantages with home sampling of HbA1c: eight years experience. Snellman K, et al. **Diabet Med** 1997 May;14(5):401–3

The absence of a glycemic threshold for the development of long–term complications: the perspective of the Diabetes Control and Complications Trial. **Diabetes** 1996 Oct; 45(10):1289–98

Effect of granulocyte–colony stimulating factor on generation of oxygen–derived free radicals and myeloperoxidase activity in neutrophils from poorly controlled NIDDM patients. Sato N, et al. **Diabetes** 1997 Jan;46(1):133–7

Subclinical and clinical eating disorders in IDDM negatively affect metabolic control. Affenito SG, et al. **Diabetes Care** 1997 Feb;20(2):182–4

Seasonal variation of HbA1c in adult diabetic patients [letter] Asplund J. **Diabetes Care** 1997 Feb;20(2):234

Phobic symptoms, particularly the fear of blood and injury, are associated with poor glycemic control in type I diabetic adults. Berlin I, et al. **Diabetes Care** 1997 Feb;20(2):176–8

HbA1c assay on capillary blood sample collected at home: a reliable method [letter] Bognetti ER, et al. **Diabetes Care** 1996 Nov;19(11):1307–8

Rapid HbA1c testing in a community setting. Carter JS, et al. **Diabetes Care** 1996 Jul;19(7):764–7

Hypoglycemia: incidence and clinical predictors in a large population–based sample of children and adolescents with IDDM. Davis EA, et al. **Diabetes Care** 1997 Jan;20(1):22–5

Glycated hemoglobin and related factors in diabetic children and adolescents under 18 years of age: a Belgian experience. Dorchy H, et al. **Diabetes Care** 1997 Jan;20(1):2–6

Long–term therapy of IDDM with an implantable insulin pump. The Implantable Insulin Pump Trial Study Group. Dunn FL, et al. **Diabetes Care** 1997 Jan;20(1):59–63

Evaluations of retinopathy in the VA Cooperative Study on Glycemic Control and Complications in Type II Diabetes (VA CSDM). A feasibility study. Emanuele N, et al. **Diabetes Care** 1996 Dec;19(12):1375–81

Comparison of fasting and 2–hour glucose and HbA1c levels for diagnosing diabetes. Diagnostic criteria and performance revisited. Engelgau MM, et al. **Diabetes Care** 1997 May;20(5):785–91

Interlaboratory variation of GHb assays in Victoria, Australia. Gilbert RE, et al. **Diabetes Care** 1996 Jul; 19(7):730–4

Comparisons of studies on diabetic complications hampered by differences in GHb measurements. Kullberg CE, et al. **Diabetes Care** 1996 Jul;19(7):726–9

Comparison of metabolic control in a cross–sectional study of 2,873 children and adolescents with IDDM from 18 countries. The Hvidøre Study Group on Childhood Diabetes. Mortensen HB, et al. **Diabetes Care** 1997 May; 20(5):714–20

Glycemic control and prevention of retinopathy in Japanese NIDDM patients. A 10–year follow–up study. Nakagami T, et al. **Diabetes Care** 1997 Apr;20(4):621–2

Glycosylated hemoglobin in pregnancy [letter] Narayan KM, et al. **Diabetes Care** 1996 Dec;19(12):1455

A two–step strategy for identification of high–risk subjects for a clinical trial of prevention of NIDDM. Narayan KM, et al. **Diabetes Care** 1996 Sep;19(9):972–8

Alternate site testing for HbA1c using the Primus CLC330 GHb analyzer. Phillipov G, et al. **Diabetes Care** 1997 Apr; 20(4):607–9

Erythrocyte Na(+)–K(+)–ATPase activity, metabolic control, and neuropathy in IDDM patients [published erratum appears in Diabetes Care 1997 Feb;20(2):236] Raccah D, et al. **Diabetes Care** 1996 Jun;19(6):564–8

High variability of glycated hemoglobin concentrations in patients with IDDM followed over 9 years. What is the best index of long–term glycemic control? Singh BM, et al. **Diabetes Care** 1997 Mar;20(3):306–8

Decreased serum 1,5–anhydroglucitol in nondiabetic subjects with a family history of NIDDM. Tsukui S, et al. **Diabetes Care** 1996 Sep;19(9):940–4

Age and sex effects on HbA1c. A study in a healthy Chinese population. Yang YC, et al. **Diabetes Care** 1997 Jun; 20(6):988–91

Multicentre evaluation of the DCA 2000 system for measuring glycated haemoglobin. DCA 2000 Study Group. Guerci B, et al. **Diabetes Metab** 1997 Jun;23(3):195–201

The association between retinopathy, nephropathy, cardiovascular disease and long–term metabolic control in type 1 diabetes mellitus: a 5 year follow–up study of 442 adult patients in routine care. Agardh CD, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):113–21

Improvement of the compliance with blood glucose monitoring in young insulin–dependent diabetes mellitus patients by the Sensorlink system. Dorchy H, et al. **Diabetes Res Clin Pract** 1997 May;36(2):77–82

Glycaemic control and its determinants in diabetic patients in Ethiopia. Gebre–Yohannes A, et al. **Diabetes Res Clin Pract** 1997 Mar;35(2–3):129–34

Haemoglobin A(1c) measurement for diabetes among subjects with a previous history of impaired glucose tolerance. Qiao Q, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):189–94

Standardization of HbA1c value and its comparison to immunoassay––two years of experience. Shiba T, et al. **Diabetes Res Clin Pract** 1996 May;32(3):175–82

High glycosylated hemoglobin levels increase the risk of progression to diabetes mellitus in subjects with glucose intolerance. Yoshinaga H, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1–3):71–9

Altered properties of the fibrin gel structure in patients with IDDM. Jörneskog G, et al. **Diabetologia** 1996 Dec; 39(12):1519–23

Correlation of HbA1c concentration and single–fiber EMG findings in diabetic neuropathy. Chang CW, et al. **Electromyogr Clin Neurophysiol** 1996 Oct–Nov; 36(7):425–32

Quantitation of glycated hemoglobins in human adult blood by capillary isoelectric focusing. Conti M, et al. **Electrophoresis** 1996 Oct;17(10):1590–6

A re–evaluation of glycohaemoglobin standardisation: the Italian experience with 119 laboratories and 12 methods. Mosca A, et al. **Eur J Clin Chem Clin Biochem** 1997 Mar; 35(3):243–8

Evaluation of an immunoturbidimetric assay for haemoglobin A1c on a Cobas Mira S analyser. Weets I, et al. **Eur J Clin Chem Clin Biochem** 1996 May;34(5):449–53

Hb Toranomon [beta 112(G14)Cys––>Trp]: a new unstable electrophoretically silent hemoglobin. Harano T, et al. **Hemoglobin** 1996 Nov;20(4):361–9

Nonlinear filtering for the estimation of glycated hemoglobin in the presence of fetal hemoglobin using microcolumn ion–exchange chromatography. Tan YL. **IEEE Trans Biomed Eng** 1996 May;43(5):545–7

Inappropriate hemoglobin A1c level, interference or bonus? [editorial; comment] Ohba Y. **Intern Med** 1997 May; 36(5):321. Comment on: Intern Med 1997 May;36(5):351–6.

Evaluation of Ames DCA 2000 for the rapid measurement of HbA1c in an outpatient clinic. McGlone O, et al. **Ir Med J** 1997 Jan–Feb;90(1):36–7

Heterogeneity of hemoglobin A1d: assessment and partial characterization of two new minor hemoglobins, A1d3a and A1d3b, increased in uremic and diabetic patients, respectively. Bissé E, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):349–56

Haemoglobin O Padova and falsely low haemoglobin A1c in a patient with type I diabetes. Schnedl WJ, et al. **J Clin Pathol** 1997 May;50(5):434–5

Glycemic control in patients with type I diabetes and normoalbuminuria after long diabetes duration. Kullberg CE, et al. **J Diabetes Complications** 1997 May–Jun; 11(3):151–7

Cognitive function and glycosylated hemoglobin in older patients with type II diabetes. Worrall GJ, et al. **J Diabetes Complications** 1996 Nov–Dec;10(6):320–4

Treatment of periodontal disease in diabetics reduces glycated hemoglobin. Grossi SG, et al. **J Periodontol** 1997 Aug;68(8):713–9

Survey and assessment of the actual state of routine measurement of glycohaemoglobin/GHb by commercial methods: warning to the users and the providers. Hoshine T, et al. **J Pharm Biomed Anal** 1997 Jun;15(9–10):1551–62

Glycosylated hemoglobin concentration for assessment of glycemic control in diabetic cats. Elliott DA, et al. **J Vet Intern Med** 1997 May–Jun;11(3):161–5

Early detection of undiagnosed non–insulin–dependent diabetes mellitus [editorial; comment] Harris MI, et al. **JAMA** 1996 Oct 16;276(15):1261–2. Comment on: JAMA 1996 Oct 16;276(15):1246–52.

Use of glycosylated hemoglobin levels for diagnosing diabetes mellitus [letter; comment] Medow MA. **JAMA** 1997 Jan 15;277(3):211. Comment on: JAMA 1996 Oct 16;276(15):1246–52.

A clinical approach for the diagnosis of diabetes mellitus: an analysis using glycosylated hemoglobin levels. Meta–analysis Research Group on the Diagnosis of Diabetes Using Glycated Hemoglobin Levels [see comments] [published erratum appears in JAMA 1997 Apr 9;277(14):1125] Peters AL, et al. **JAMA** 1996 Oct 16; 276(15):1246–52. Comment in: JAMA 1996 Oct 16;276(15):1261–2. Comment in: JAMA 1997 Jan 15;277(3):211. Comment in: ACP J Club 1997 Mar–Apr;126(2):46.

Will glycosylated haemoglobin replace the oral glucose–tolerance test? Stewart M. **Lancet** 1997 Jan 25; 349(9047):223–4

Enhanced estimation of glycated haemoglobin. Tan YL. **Med Biol Eng Comput** 1996 Nov;34(6):498–500

Glycohaemoglobin: a crucial measurement in modern diabetes management. Progress towards standardisation and improved precision of measurement. Australian Diabetes Society, the Royal College of Pathologists of Australasia and the Australasian Association of Clinical Biochemists [consensus development conference] Colman PG, et al.

Med J Aust 1997 Jul 21;167(2):96–8 (7 ref.)
Pulmonary dysfunction in type 1 diabetes in relation to metabolic long–term control and to incipient diabetic nephropathy. Schnack C, et al. **Nephron** 1996;74(2):395–400
Determination of glycated hemoglobins in the rat: comparison between two different chromatographic methods and application in experimental diabetology. De Tata V, et al. **Res Exp Med (Berl)** 1996;196(1):9–16
Vitamin E modifies neither fructosamine nor HbA1c levels in poorly controlled diabetes. Gómez–Pérez FJ, et al. **Rev Invest Clin** 1996 Nov–Dec;48(6):421–4
Lack of association between cystopathy and progression of diabetic nephropathy in insulin–dependent diabetes mellitus. Torffvit O, et al. **Scand J Urol Nephrol** 1997 Aug; 31(4):365–9
Glycosylated haemoglobins in women with low risk for diabetes in pregnancy. Loke DF, et al. **Singapore Med J** 1995 Oct;36(5):501–4
[Multicenter evaluation of thr Abbott glycosylated hemoglobin assay on IMx] Bon Ch, et al. **Ann Biol Clin (Paris)** 1996;54(3–4):151–7 (Eng. Abstr.) **(Fre)**
[Rapid determination by immunoassay of glycosylated hemoglobin in capillary blood compared to an affinity method for boronate and ion capturing on venous blood] Boz M, et al. **Ann Biol Clin (Paris)** 1997 Mar–Apr; 55(2):139–44 (Eng. Abstr.) **(Fre)**
[Determination of Hb A1c in chronic renal failure. Contribution of new methodologies] Flory E, et al. **Ann Biol Clin (Paris)** 1996;54(5):211–4 (Eng. Abstr.) **(Fre)**
[How effective is glucose control in insulin–dependent diabetics followed–up in specialized hospital consultation? (letter)] Grimaldi A, et al. **Presse Med** 1996 Sep 28; 25(28):1301–2 **(Fre)**
[Glycosylated hemoglobin in nonselected under–18–year–old young diabetics. Comparison of 2 HPLC methods] Dorchy H, et al. **Rev Med Brux** 1997 Apr;18(2):59–63 (Eng. Abstr.) **(Fre)**
[Diagnosis of diabetes mellitus: oral glucose tolerance test or HbA1C] Salomon F. **Schweiz Rundsch Med Prax** 1997 Apr 16;86(16):672 **(Ger)**
[Determination of glycosylated hemoglobin in hemoglobin variants (letter)] Schnedl WJ, et al. **Wien Klin Wochenschr** 1996;108(14):444 **(Ger)**
[The concentration of glucose, glycosylated hemoglobin and fructosamine in blood of patients with cerebral hemorrhage in the acute stage of the disease] Chmielewska B, et al. **Ann Univ Mariae Curie Sklodowska [Med]** 1995;50:123–30 (Eng. Abstr.) **(Pol)**
[False high levels glycosylated hemoglobin in 2 diabetic patients with persistence of fetal hemoglobin] Villanueva CL, et al. **Rev Med Chil** 1995 Sep;123(9):1129–32 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Near infrared spectroscopy of nitrosyl haemoglobin—relevance to in vivo detection of nitric oxide. Cooper CE, et al. **Biochem Soc Trans** 1996 Aug; 24(3):448S
Degradation of glycated hemoglobin by erythrocytic proteolytic enzymes. Raghothama C, et al. **Clin Chim Acta** 1996 Feb 28;245(2):201–8

DRUG EFFECTS

The effect of delta–gluconolactone, an oxidised analogue of glucose, on the nonenzymatic glycation of human and rat haemoglobin. Lindsay RM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):239–47
Acarbose in the treatment of type I diabetes [see comments] Hollander P, et al. **Diabetes Care** 1997 Mar;20(3):248–53. Comment in: ACP J Club 1997 Jul–Aug;127(1):13.
Troglitazone, an insulin action enhancer, improves metabolic control in NIDDM patients. Troglitazone Study Group [published erratum appears in Diabetologia 1996 Oct;39(10):1245] Kumar S, et al. **Diabetologia** 1996 Jun; 39(6):701–9
Effect of modest vitamin E supplementation on blood glycated hemoglobin and triglyceride levels and red cell indices in type I diabetic patients. Jain SK, et al. **J Am Coll Nutr** 1996 Oct;15(5):458–61

METABOLISM

Prevalence of diabetic retinopathy in relation to age at onset of the diabetes, treatment, duration and glycemic control. Henricsson M, et al. **Acta Ophthalmol Scand** 1996 Dec; 74(6):523–7
Progression of retinopathy is related to glycaemic control even in patients with mild diabetes mellitus. Henricsson M, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):528–32
Interpreting glycosylated hemoglobin in diabetic patients on peritoneal dialysis. Tzamaloukas AH. **Adv Perit Dial** 1996; 12:171–5 (40 ref.)
Longitudinal patterns of glycemic control and diabetes care from diagnosis in a population–based cohort with type 1 diabetes. The Wisconsin Diabetes Registry. Palta M, et al. **Am J Epidemiol** 1996 Nov 15;144(10):954–61
Glycated haemoglobin analysis. John WG. **Ann Clin Biochem** 1997 Jan;34 (Pt 1):17–31 (88 ref.)
Failure of glucose–binding lectins Con A and Lentil Lectin to identify glycation of haemoglobin. Frantzen F, et al. **Carbohydr Res** 1996 Mar 22;283:187–94
Investigation of the mechanism underlying the variability of glycated haemoglobin in non–diabetic subjects not related to glycaemia. Gould BJ, et al. **Clin Chim Acta** 1997 Apr 4;260(1):49–64
Impact of concentrations of glycated hemoglobin, alpha–tocopherol, copper, and manganese on oxidation of low–density lipoproteins in patients with type I diabetes, type II diabetes and control subjects. Leonhardt W, et al. **Clin Chim Acta** 1996 Oct 29;254(2):173–86
The effect of delta–gluconolactone, an oxidised analogue of glucose, on the nonenzymatic glycation of human and rat haemoglobin. Lindsay RM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):239–47
Degradation of glycated hemoglobin. Role of erythrocytic proteolytic enzymes and oxidant damage. Raghothama C, et al. **Clin Chim Acta** 1997 Aug 8;264(1):13–25
Glycated proteins as indices of glycaemic control in diabetic patients with chronic renal failure. Morgan L, et al. **Diabet Med** 1996 Jun;13(6):514–9
Age related changes in glycated haemoglobin in patients with insulin–dependent diabetes mellitus. Pound N, et al. **Diabet Med** 1996 Jun;13(6):510–3
Uremia and HbA1c [letter] Hansen KW, et al. **Diabetes Care** 1997 Aug;20(8):1341–2
Influence of long–term glycemic control on the development of cardiac autonomic neuropathy in pediatric patients with type I diabetes [letter] Holder M, et al. **Diabetes Care** 1997 Jun;20(6):1042–3
Long–term intensive insulin therapy in IDDM: effects on HbA1c, risk for severe and mild hypoglycaemia, status of counterregulation and awareness of hypoglycaemia. Pampanelli S, et al. **Diabetologia** 1996 Jun;39(6):677–86
Serum lipoprotein (a) in type 1 diabetic children and adolescents: relationships with HbA1c and subclinical complications [see comments] Willems D, et al. **Eur J Pediatr** 1996 Mar;155(3):175–8. Comment in: Eur J Pediatr 1996 Nov;155(11):995–6.
Relation between stable glycated hemoglobin A1C and plasma glucose levels in diabetes–model mice. Dan K, et al. **Exp Anim** 1997 Apr;46(2):135–40
A diabetic case with hemoglobin J–Meerut and low HbA1C levels [see comments] Yagame M, et al. **Intern Med** 1997 May;36(5):351–6 (25 ref.). Comment in: Intern Med 1997 May;36(5):321.
Therapeutic effect of benfluorex in type II diabetic patients on diet regimen alone. Velussi M, et al. **J Diabetes Complications** 1996 Sep–Oct;10(5):261–6
Clinical significance of glycosylated haemoglobin (HbA1C) over fasting blood sugar for monitoring metabolic control in diabetic patients with or without complications. Babbar A, et al. **J Indian Med Assoc** 1996 Nov;94(11):414–6
Is there a correlation between cardiac sympathetic neuropathy or diabetic somatic neuropathy and glycosylated haemoglobin or blood pressure in patients with non–insulin–dependent diabetes mellitus? Okada S, et al. **J Int Med Res** 1995 Nov–Dec;23(6):467–72
Efficacy of preconception care of diabetic women in a community setting. Rodgers BD, et al. **J Reprod Med** 1996 Jun;41(6):422–6
The effect of exercise conditioning, diet, and drug therapy on glycosylated hemoglobin levels in type 2 (NIDDM) diabetics. Khan S, et al. **J Sports Med Phys Fitness** 1995 Dec;35(4):281–8
Growth parameters, growth hormone (GH) response to clonidine and circulating insulin–like growth factor–I (IGF–I), free thyroxine (FT4) and cortisol concentrations in relation to glycaemic control in children with insulin–dependent diabetes mellitus. Soliman AT, et al. **J Trop Pediatr** 1996 Aug;42(4):228–32
Effect of BMI, insulin dose and number of injections on glycaemic . control in insulin–using diabetic patients. Studygroup Diabetes Rijnmond (SDR). Jacobs ML, et al. **Neth J Med** 1997 Apr;50(4):153–9
Elevated glycosylated hemoglobin in a patient receiving recombinant erythropoietin [letter] Schwartz ID, et al. **Pediatr Nephrol** 1996 Dec;10(6):809–10
[Analysis of glycosylated A1c hemoglobin by liquid phase chromatography and immunoagglutination] Sellami M, et al. **Arch Inst Pasteur Tunis** 1995 Jan–Apr;72(1–2):3–6 (Eng. Abstr.) **(Fre)**
[The role of metabolic control in diabetes mellitus] Magnusson K, et al. **Versicherungsmedizin** 1997 Feb 1; 49(1):4–7 (35 ref.) (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Effects of glycosylated hemoglobin on vascular responses in vitro. Oltman CL, et al. **Cardiovasc Res** 1997 Apr; 34(1):179–84

PHYSIOLOGY

Influence of glycemic control on viscosity and density of plasma and whole blood in type–1 diabetic patients. Mellinghoff AC, et al. **Diabetes Res Clin Pract** 1996 Jul; 33(2):75–82
Impairment of endothelium–dependent relaxation by increasing percentages of glycosylated human hemoglobin. Possible mechanisms involved. Angulo J, et al. **Hypertension** 1996 Oct;28(4):583–92

STANDARDS

Standardization of glycated haemoglobin assays throughout the Northern region of England: a pilot study. Gibb I, et al. **Diabet Med** 1997 Jul;14(7):584–8

URINE

[Significance of the HbA1c values in type I diabetes mellitus] Niederau CM. **Dtsch Med Wochenschr** 1997 Sep 12; 122(37):1130 **(Ger)**

HEMOGLOBIN A(1) see **HEMOGLOBIN A, GLYCOSYLATED**

HEMOGLOBIN A2

ANALYSIS

Hemoglobin A2 levels in healthy persons, sickle cell disease, sickle cell trait, and beta–thalassemia by capillary isoelectric focusing. Craver RD, et al. **Am J Clin Pathol** 1997 Jan;107(1):88–91
A rapid anion exchange high–performance liquid chromatography method for the measurement of HbA2 in whole blood. Keevil BG, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):253–6

CHEMISTRY

Polymerization of three hemoglobin A2 variants containing Val6 and inhibition of hemoglobin S polymerization by hemoglobin A2. Adachi K, et al. **J Biol Chem** 1996 Oct 4;271(40):24557–63

GENETICS

Restoration of the CCAAT box or insertion of the CACCC motif activate delta–globin gene expression. Tang DC, et al. **Blood** 1997 Jul 1;90(1):421–7
delta–Thalassemic phenotype due to two "novel" delta–globin gene mutations: CD11[GTC–>GGC (A8)–HbA2–Pylos] and CD 85[TTT–>TCT(F1)–HbA2–Etolia]. Drakoulakou O, et al. **Hum Mutat** 1997;9(4):344–7

METABOLISM

Expression studies of delta–globin gene alleles associated with reduced hemoglobin A2 levels in Greek Cypriots. Trifillis P, et al. **J Biol Chem** 1996 Oct 25;271(43):26931–8

HEMOGLOBIN C

GENETICS

HbC compound heterozygotes [HbC/Hb Riyadh and HbC/Hb N–Baltimore] with opposing effects upon HbC crystallization. Hirsch RE, et al. **Br J Haematol** 1997 May; 97(2):259–65

METABOLISM

A comparative study on the functional properties of the wild European mouflon and domestic sheep hemoglobins. Corda M, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jul;117(3):417–20

HEMOGLOBIN C DISEASE

BLOOD

Mean cell haemoglobin concentration in subjects with haemoglobin C, D, E and S traits. Hinchliffe RF, et al. **Clin Lab Haematol** 1996 Dec;18(4):245–8
[Community–based programs for hereditary hemoglobinopathies in Brazilian high school students] Compri MB, et al. **Rev Saude Publica** 1996 Apr; 30(2):187–95 (Eng. Abstr.) **(Por)**

DIAGNOSIS

Difficulty in applying discriminant function to patients with HbE trait [letter; comment] Liu TC, et al. **Clin Lab Haematol** 1996 Jun;18(2):128–9. Comment on: Clin Lab Haematol 1995 Mar;17(1):31–3.
[Hb, C, D and E hemoglobinopathies] Ohba Y, et al. **Nippon Rinsho** 1996 Sep;54(9):2448–53 (22 ref.) (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

Haemoglobin C gene in south eastern Nigeria. Usanga EA, et al. **East Afr Med J** 1996 Sep;73(9):566–7

GENETICS

HbC compound heterozygotes [HbC/Hb Riyadh and HbC/Hb N–Baltimore] with opposing effects upon HbC crystallization. Hirsch RE, et al. **Br J Haematol** 1997 May; 97(2):259–65

PATHOLOGY

Intrathoracic extramedullary hematopoietic tumor in hemoglobin C disease [letter; comment] Hoyer JD, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):355–6. Comment on: Arch Pathol Lab Med 1996 May;120(5):504–6.
Intrathoracic extramedullary hematopoietic tumor in

HEMOGLOBIN C DISEASE

hemoglobin C disease [letter; comment] Stokes GN, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):355. Comment on: Arch Pathol Lab Med 1996 May;120(5):504–6.

HEMOGLOBIN E

Altered membrane phospholipid organization and erythrophagocytosis in E beta–thalassemia. Srinivasan PT, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):65–70

Presence of immunoglobulins, C3 and cytolytic C5b–9 complement components on the surface of erythrocytes from patients with beta–thalassaemia/HbE disease. Malasit P, et al. **Br J Haematol** 1997 Mar;96(3):507–13

Mean cell haemoglobin concentration in subjects with haemoglobin C, D, E and S traits. Hinchliffe RF, et al. **Clin Lab Haematol** 1996 Dec;18(4):245–8

Haemochromatosis in a case of thalassaemia haemoglobin E disease presenting with cirrhosis of liver. Mitra R, et al. **J Indian Med Assoc** 1996 Jan;94(1):29–30

Elevated zinc protoporphyrin associated with thalassemia trait and hemoglobin E. Graham EA, et al. **J Pediatr** 1996 Jul;129(1):105–10

[Hb, C, D and E hemoglobinopathies] Ohba Y, et al. **Nippon Rinsho** 1996 Sep;54(9):2448–53 (22 ref.) (Eng. Abstr.) **(Jpn)**

ANALYSIS

Hemoglobin E and pyrimidine 5' nucleotidase deficiency [letter] Nadkarni AH, et al. **Blood** 1997 Aug 15;90(4):1716

CHEMISTRY

Hb E and alpha–thalassemia; variability in the assembly of beta E chain containing tetramers. Huisman TH. **Hemoglobin** 1997 May;21(3):227–36

GENETICS

Interaction of hemoglobin E and pyrimidine 5' nucleotidase deficiency. Rees DC, et al. **Blood** 1996 Oct 1;88(7):2761–7

Difficulty in applying discriminant function to patients with HbE trait [letter; comment] Liu TC, et al. **Clin Lab Haematol** 1996 Jun;18(2):128–9. Comment on: Clin Lab Haematol 1995 Mar;17(1):31–3.

Clinical expression of a rare beta–globin gene mutation co–inherited with haemoglobin E–disease. van Solinge WW, et al. **Eur J Clin Chem Clin Biochem** 1996 Dec; 34(12):949–54

Hb E and alpha–thalassemia; variability in the assembly of beta E chain containing tetramers. Huisman TH. **Hemoglobin** 1997 May;21(3):227–36

Hb Aubenas [beta 62(B8)Glu–>Gly]: a new variant normally synthesized, affecting the same codon as in Hb E. Lacan P, et al. **Hemoglobin** 1996 May;20(2):113–24

The occurrence of beta–thalassemia mutation and its interaction with hemoglobin E in the eastern India. De M, et al. **Int J Hematol** 1997 Jul;66(1):31–4

Molecular studies of haemoglobin–E in tribal populations of Tripura [letter; comment] De M, et al. **Lancet** 1997 May 3;349(9061):1297. Comment on: Lancet 1997 May 3;349(9061):1263.

HEMOGLOBIN, ERYTHROCYTE, MEAN CELL see **ERYTHROCYTE INDICES**

HEMOGLOBIN F see **FETAL HEMOGLOBIN**

HEMOGLOBIN F DISEASE see **BETA–THALASSEMIA**

HEMOGLOBIN H

ANALYSIS

Proficiency testing of hemoglobinopathy techniques in Ontario laboratories. Lafferty J, et al. **Am J Clin Pathol** 1997 May;107(5):567–75

Oxygen parameters in the presence of hemoglobin H [comment] Siggaard–Andersen O, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):295–7. Comment on: Pediatr Hematol Oncol 1997 Jul–Aug;14(4):323–34.

GENETICS

Molecular defects in Hb H hydrops fetalis. Chan V, et al. **Br J Haematol** 1997 Feb;96(2):224–8

Atypical HbH disease in a Surinamese patient resulting from a combination of the –SEA and –alpha 3.7 deletions with HbC heterozygosity. Giordano PC, et al. **Br J Haematol** 1997 Mar;96(4):801–5

The molecular basis of Hb H disease in Turkey. Oner C, et al. **Hemoglobin** 1997 Jan;21(1):41–51

METABOLISM

Binding of nitric oxide to thiols and hemes in hemoglobin H: implications for alpha–thalassemia and hypertension. Reddy PL, et al. **Clin Chem** 1997 Aug;43(8 Pt 1):1442–7

Tissue oxygenation in patients with hemoglobinopathy H [see comments] Papassotiriou I, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):323–34. Comment in: Pediatr Hematol Oncol 1997 Jul–Aug;14(4):295–7.

HEMOGLOBIN H DISEASE see

ALPHA–THALASSEMIA

HEMOGLOBIN J

ANALYSIS

Resistance to recombinant erythropoietin in a hemodialysis patient with heterozygous hemoglobinopathy J–Meinung. Tarng DC, et al. **Am J Kidney Dis** 1997 May;29(5):769–72 (26 ref.)

GENETICS

Fortuitous diagnosis of the association of hemoglobin J–Broussais with beta + thalassemia. Durou MR, et al. **Ann Biol Clin (Paris)** 1996;54(8–9):321–3

Hb J–Baltimore [beta 16(A13)Gly–>Asp] associated with beta(+)–thalassemia in a Spanish family. Arribalzaga K, et al. **Hemoglobin** 1996 Feb;20(1):79–84

A diabetic case with hemoglobin J–Meerut and low HbA1C levels [see comments] Yagame M, et al. **Intern Med** 1997 May;36(5):351–6 (25 ref.). Comment in: Intern Med 1997 May;36(5):321.

METABOLISM

A diabetic case with hemoglobin J–Meerut and low HbA1C levels [see comments] Yagame M, et al. **Intern Med** 1997 May;36(5):351–6 (25 ref.). Comment in: Intern Med 1997 May;36(5):321.

HEMOGLOBIN M

GENETICS

A new case of Hb F–M–Osaka [G gamma 63(E7)His–>Tyr] showed only benign neonatal cyanosis. Urabe D, et al. **Hemoglobin** 1996 May;20(2):169–73

HEMOGLOBIN S see **HEMOGLOBIN, SICKLE**

HEMOGLOBIN SC DISEASE

Factitious sickle cell acute painful episodes: a secondary type of Munchausen syndrome. Ballas SK. **Am J Hematol** 1996 Dec;53(4):254–8 (7 ref.)

New views of sickle cell disease. Rosse WF. **N C Med J** 1997 Jan–Feb;58(1):62–6

BLOOD

Hematologic profile and lymphocyte subpopulations in hemoglobin SC disease: comparison with hemoglobin SS and black controls. The Transfusion Safety Study Group. Wong WY, et al. **Am J Hematol** 1996 Jul;52(3):150–4

A multiparameter analysis of sickle erythrocytes in patients undergoing hydroxyurea therapy. Bridges KR, et al. **Blood** 1996 Dec 15;88(12):4701–10

Surface properties of irreversibly sickled cells differ from those of the bulk of sickle cells. Studies by partitioning in aqueous phase systems. Walter H, et al. **J Chromatogr B Biomed Appl** 1996 May 17; 680(1–2):197–200

COMPLICATIONS

Images in hematology. Hemoglobin SC disease. Moll S, et al. **Am J Hematol** 1997 Apr;54(4):313

Carcinoma of the breast in a sickle cell disease patient: case report. Adebamowo CA, et al. **East Afr Med J** 1996 Jul; 73(7):489–90

Acute splenic complications in children with sickle cell–hemoglobin C disease. Aquino VM, et al. **J Pediatr** 1997 Jun;130(6):961–5

Valsalva vitreous haemorrhage and retinopathy in sickle cell haemoglobin C disease [letter] Konotey–Ahulu F. **Lancet** 1997 Jun 14;349(9067):1774

Sudden hearing loss in sickle cell disease: a case report. Schreibstein JM, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):541–4

Chest infections and syndromes in sickle cell disease of childhood. Dreyer ZE. **Semin Respir Infect** 1996 Sep; 11(3):163–72 (67 ref.)

[Hemoglobinopathies and retinopathies in Lomé UHC] Balo KP, et al. **J Fr Ophtalmol** 1996;19(8–9):497–504 (Eng. Abstr.) **(Fre)**

[Osteomyelitis by Salmonella enteritidis and sickle cell hemoglobinopathy. Report of a case and review of the literature] Pierrotti LC, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 May–Jun; 51(3):96–8 (8 ref.) (Eng. Abstr.) **(Por)**

DIAGNOSIS

Proficiency testing of hemoglobinopathy techniques in Ontario laboratories. Lafferty J, et al. **Am J Clin Pathol** 1997 May;107(5):567–75

DRUG THERAPY

A multiparameter analysis of sickle erythrocytes in patients undergoing hydroxyurea therapy. Bridges KR, et al. **Blood** 1996 Dec 15;88(12):4701–10

GENETICS

Beta–globin gene haplotype in Hb SC disease. Steinberg MH, et al. **Am J Hematol** 1996 Jul;52(3):189–91

PHYSIOPATHOLOGY

Headache and scalp edema in sickle cell disease. Pari G, et al. **Can J Neurol Sci** 1996 Aug;23(3):224–6

Stroke in children and young adults. Kittner SJ, et al. **Curr Opin Neurol** 1996 Feb;9(1):53–6 (24 ref.)

ULTRASONOGRAPHY

Renal length in sickle cell disease: observations from a cohort study. Walker TM, et al. **Clin Nephrol** 1996 Dec;46(6):384–8

HEMOGLOBIN, SICKLE

A rat model for sickle cell–mediated vaso–occlusion in retina. Lutty GA, et al. **Microvasc Res** 1996 Nov;52(3):270–80

ANALYSIS

Proficiency testing of hemoglobinopathy techniques in Ontario laboratories. Lafferty J, et al. **Am J Clin Pathol** 1997 May;107(5):567–75

Hb S/Hb Lepore with mild sickling symptoms: a hemoglobin variant with mostly delta–chain sequences ameliorates sickle–cell disease. Fairbanks VF, et al. **Am J Hematol** 1997 Feb;54(2):164–5

Hematologic profile and lymphocyte subpopulations in hemoglobin SC disease: comparison with hemoglobin SS and black controls. The Transfusion Safety Study Group. Wong WY, et al. **Am J Hematol** 1996 Jul;52(3):150–4

Validation of an automated HPLC method for quantification of hemoglobin S. Fisher SI, et al. **Clin Chem** 1997 Sep; 43(9):1667–9

The prevalence of hemoglobin S and glucose–6–phosphate dehydrogenase deficiency in Jordanian newborn. Talafih K, et al. **J Obstet Gynaecol Res** 1996 Oct;22(5):417–20

Fatal fat embolism syndrome in a child with undiagnosed hemoglobin S/beta+ thalassemia: a complication of acute parvovirus B19 infection. Kolquist KA, et al. **Pediatr Pathol Lab Med** 1996 Jan–Feb;16(1):71–82

ANTAGONISTS & INHIBITORS

Polymerization of three hemoglobin A2 variants containing Val6 and inhibition of hemoglobin S polymerization by hemoglobin A2. Adachi K, et al. **J Biol Chem** 1996 Oct 4;271(40):24557–63

CHEMISTRY

Definite answers from random events [comment] Briehl RW. **Biophys J** 1997 Jan;72(1):3–4 (12 ref.). Comment on: Biophys J 1997 Jan;72(1):343–52.

Homogeneous nucleation in sickle hemoglobin: stochastic measurements with a parallel method [see comments] Cao Z, et al. **Biophys J** 1997 Jan;72(1):343–52. Comment in: Biophys J 1997 Jan;72(1):3–4.

Heterotropic effects of chloride on the ligation microstates of hemoglobin at constant water activity. Huang Y, et al. **Biophys J** 1996 Oct;71(4):2106–16

Solubility of sickle hemoglobin measured by a kinetic micromethod. Liao D, et al. **Biophys J** 1996 May; 70(5):2442–7

Gelation kinetics of dilute hemoglobin from sickle cell anemia patients. Fasanmade AA. **Hemoglobin** 1996 Nov; 20(4):415–28

Compound heterozygosity for Hb S and the hybrid HbS Lepore, P–Nilotic, and Kenya; comparison of hematological and hemoglobin composition data. Huisman TH. **Hemoglobin** 1997 May;21(3):249–57

A recombinant sickle hemoglobin triple mutant with independent inhibitory effects on polymerization. Himanen JP, et al. **J Biol Chem** 1996 Oct 11;271(41):25152–6

Influence of the A helix structure on the polymerization of hemoglobin S. Lesecq S, et al. **J Biol Chem** 1997 Jun 13; 272(24):15242–6

Role of hydrophobic amino acids at beta85 and beta88 in stabilizing F helix conformation of hemoglobin S. Reddy LR, et al. **J Biol Chem** 1996 Oct 4;271(40):24564–8

Nucleation and polymerization of sickle hemoglobin with Leu beta 88 substituted by Ala. Cao Z, et al. **J Mol Biol** 1997 Feb 7;265(5):580–9

Roles of alpha 114 and beta 87 amino acid residues in the polymerization of hemoglobin S: implications for gene therapy. Ho C, et al. **J Mol Biol** 1996 Nov 1;263(3):475–85

The structural link between polymerization and sickle cell disease. Mirchev R, et al. **J Mol Biol** 1997 Feb 7; 265(5):475–9

A comparison of the dielectric behaviour of human haemoglobin SC with SS and AA in solution. Laogun AA, et al. **Phys Med Biol** 1997 Apr;42(4):707–15

DRUG EFFECTS

Hydroxyurea–induced denaturation of normal and sickle cell hemoglobins in vitro. Roa D, et al. **J Clin Lab Anal** 1997; 11(4):208–13

GENETICS

Recombinant sickle hemoglobin containing a lysine substitution at Asp–85(alpha): expression in yeast,

functional properties, and participation in gel formation. Himanen JP, et al. **Blood** 1997 Jun 1;89(11):4196–203

A mild form of Hb S–beta–thalassemia syndrome is assured in Sicilian patients by beta+mutant IVS–I nt 6(T–>C) [letter] Mirabile E, et al. **Eur J Haematol** 1997 Jan; 58(1):67–9

Frequency of sickle cell gene in Arabia. el–Hazmi MA, et al. **Gene Geogr** 1996 Aug;10(2):87–91

Historical and anthropological correlates of beta S haplotypes and alpha– and beta–thalassemia alleles in the Arabian Peninsula. Adekile AD. **Hemoglobin** 1997 May; 21(3):281–96 (84 ref.)

Sickle cell gene in the population of Saudi Arabia. el–Hazmi MA, et al. **Hemoglobin** 1996 Aug;20(3):187–98

Compound heterozygosity for Hb S and the hybrid HbS Lepore, P–Nilotic, and Kenya; comparison of hematological and hemoglobin composition data. Huisman TH. **Hemoglobin** 1997 May;21(3):249–57

First case of Hb S and beta zero–thalassemia detected in an Argentinean girl. Soria NW, et al. **Hemoglobin** 1996 May; 20(2):125–9

Nucleation and polymerization of sickle hemoglobin with Leu beta 88 substituted by Ala. Cao Z, et al. **J Mol Biol** 1997 Feb 7;265(5):580–9

Prenatal detection of Hb mutations using transcervical cells. Adinolfi M, et al. **Prenat Diagn** 1997 Jun;17(6):539–43

Sickle cell anemia research and a recombinant DNA technique [letter; comment] Stasiak A, et al. **Science** 1997 Jul 25;277(5325):460–2. Comment on: Science 1996 Sep 6;273(5280):1386–9.

Recombinant DNA technique and sickle cell anemia research [letter; comment] Thomas KR, et al. **Science** 1997 Mar 7; 275(5305):1404–5. Comment on: Science 1996 Sep 6;273(5280):1386–9.

METABOLISM

A recombinant sickle hemoglobin triple mutant with independent inhibitory effects on polymerization. Himanen JP, et al. **J Biol Chem** 1996 Oct 11;271(41):25152–6

PHYSIOLOGY

K:Cl cotransport in red cells of transgenic mice expressing high levels of human hemoglobin S. Romero JR, et al. **Am J Hematol** 1997 Jun;55(2):112–4

HEMOGLOBIN SUBSTITUTES see **BLOOD SUBSTITUTES**

HEMOGLOBINOMETRY

Baseline hemoglobin as a predictor of risk of transfusion and response to Epoetin alfa in orthopedic surgery patients. de Andrade JR, et al. **Am J Orthop** 1996 Aug;25(8):533–42

Measurement of blood loss in clinical studies. Flordal PA. **Eur J Anaesthesiol Suppl** 1997 Mar;14:35–7

Haematological changes in falciparum malaria and tumor necrosis factor. Khan AS, et al. **JPMA J Pak Med Assoc** 1996 Sep;46(9):198–201

'Never say die'—survival of a woman with massive abruptio placentae and a haemoglobin concentration of 0.6 g/dl [letter] Janowski K, et al. **S Afr Med J** 1996 Sep;86(9 Suppl):1207

[Has evolution made a mistake? Living with hemoglobin! (letter)] Michaelis G. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jul; 32(7):471–3 **(Ger)**

INSTRUMENTATION

Evaluation of the AVOXimeter: precision, long–term stability, linearity, and use without heparin. Bailey SR, et al. **J Clin Monit** 1997 May;13(3):191–8

[Microlight–guided spectrophotometry of the cochlea] Leuwer R, et al. **HNO** 1997 May;45(5):372–7 (Eng. Abstr.) **(Ger)**

[A simple, lightweight device for measurement of hemoglobin; the HemoCue Blood Hemoglobin Test] Nishiyama T, et al. **Masui** 1997 Feb;46(2):284–5 (Eng. Abstr.) **(Jpn)**

METHODS

The effect of splenectomy in hereditary spherocytosis by dual angle laser light cytometry. Ricard MP, et al. **Clin Lab Haematol** 1996 Dec;18(4):249–51

Assessment of the severity of hereditary spherocytosis using routine haematological data obtained with dual angle laser scattering cytometry. Ricard MP, et al. **Clin Lab Haematol** 1996 Jun;18(2):75–8

Enhanced estimation of glycated haemoglobin. Tan YL. **Med Biol Eng Comput** 1996 Nov;34(6):498–500

A new method for the assessment of tissue hemoglobin oxygenation in patients with chronic venous insufficiency. Thum J, et al. **Microvasc Res** 1996 May;51(3):317–26

Clinical evaluation of near–infrared spectroscopy for testing cerebrovascular reactivity in patients with carotid artery disease. Smielewski P, et al. **Stroke** 1997 Feb;28(2):331–8

[Clinical significance of free hemoglobin in blood serum in viral hepatitis] Levina LD, et al. **Klin Lab Diagn** 1993 May–Jun;(3):23–5 (Eng. Abstr.) **(Rus)**

[Rapid differential diagnosis of fetal blood versus maternal blood (letter)] Ricard MP, et al. **Sangre (Barc)** 1996 Oct; 41(5):400–1 **(Spa)**

STANDARDS

[Hematology Standardization Committee. Recommendations of the International Council for Standardization in Hematology (ICSH) for the evaluation of hematologic autoanalyzers] Besson I, et al. **Sangre (Barc)** 1996 Jun; 41(3):253–8 **(Spa)**

HEMOGLOBINOPATHIES

Hemoglobinopathies in Southeast Asia: molecular biology and clinical medicine. Fucharoen S, et al. **Hemoglobin** 1997 Jul;21(4):299–319 (78 ref.)

BLOOD

Pulse oximetry in mixed haemoglobinopathy [letter] Corkeron MA, et al. **Anaesth Intensive Care** 1996 Oct; 24(5):619–20

Mean cell haemoglobin concentration in subjects with haemoglobin C, D, E and S traits. Hinchliffe RF, et al. **Clin Lab Haematol** 1996 Dec;18(4):245–8

[Analysis of glycosylated A1c hemoglobin by liquid phase chromatography and immunoagglutination] Sellami M, et al. **Arch Inst Pasteur Tunis** 1995 Jan–Apr;72(1–2):3–6 (Eng. Abstr.) **(Fre)**

[The unstable hemoglobin disease] Maeda M, et al. **Nippon Rinsho** 1996 Sep;54(9):2436–41 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Mechanisms for the enhanced red cell destruction in hemoglobinopathy] Ohba Y. **Nippon Rinsho** 1996 Sep; 54(9):2376–81 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Community–based programs for hereditary hemoglobinopathies in Brazilian high school students] Compri MB, et al. **Rev Saude Publica** 1996 Apr; 30(2):187–95 (Eng. Abstr.) **(Por)**

[Use of the Sysmex NE1500 counter for the detection of hemoglobinopathies (letter)] Rabasa MP, et al. **Sangre (Barc)** 1996 Oct;41(5):401–3 **(Spa)**

COMPLICATIONS

Thromboembolic complication of splenectomy in unstable hemoglobin disorders: Hb Olmsted, Hb Koln [letter; comment] Phyliky RL, et al. **Am J Hematol** 1997 May; 55(1):53. Comment on: Am J Hematol 1996 Feb;51(2):133–6.

DIAGNOSIS

Beta–globin haplotypes from blood spots for follow–up of newborn hemoglobinopathy screening. Hiti AL, et al. **Am J Hematol** 1997 Jan;54(1):76–8

Resistance to recombinant erythropoietin in a hemodialysis patient with heterozygous hemoglobinopathy J–Meinung. Tarng DC, et al. **Am J Kidney Dis** 1997 May;29(5):769–72 (26 ref.)

A rule–based expert system for laboratory diagnosis of hemoglobin disorders. Nguyen AN, et al. **Arch Pathol Lab Med** 1996 Sep;120(9):817–27

Sequence–based diagnosis of hemoglobinopathies in the clinical laboratory. Reddy PL, et al. **Clin Lab Med** 1997 Mar;17(1):85–96 (16 ref.)

Hb Uxbridge [beta 20 (B2)Val–>Gly]: a new variant with mild increase in oxygen affinity found during a neonatal screening program. Wajcman H, et al. **Hemoglobin** 1996 Nov;20(4):339–50

Detection of haemoglobin variants for the diagnosis of beta thalassaemia & other haemoglobinopathies using anion exchange high performance liquid chromatography. Rao VB, et al. **Indian J Med Res** 1996 Dec;104:365–73

NESTROFT as a screening test for the detection of thalassaemia & common haemoglobinopathies—an evaluation against a high performance liquid chromatographic method. Thomas S, et al. **Indian J Med Res** 1996 Aug;104:194–7

Iowa newborn hemoglobinopathy screening and comprehensive care: a model for rural states [letter] Peters C, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):416–8

Haemoglobinopathies. Old J. **Prenat Diagn** 1996 Dec; 16(13):1181–6 (46 ref.)

Rapid mid–trimester prenatal diagnosis of beta–thalassaemia and other haemoglobinopathies using a non–radioactive anion exchange HPLC technique—an Indian experience. Rao VB, et al. **Prenat Diagn** 1997 Aug;17(8):725–31

Prenatal diagnosis for inborn errors of metabolism and haemoglobinopathies: the Montreal Children's Hospital experience. Sasi K, et al. **Prenat Diagn** 1997 Jul;17(7):681–5

Acceptance of first–trimester prenatal diagnosis for the haemoglobinopathies in Lebanon. Zahed L, et al. **Prenat Diagn** 1997 May;17(5):423–8

[Biological diagnosis of hemoglobinopathies by phenotype analysis] Siguret V, et al. **Ann Biol Clin (Paris)** 1997 Mar–Apr;55(2):103–12 (28 ref.) (Eng. Abstr.) **(Fre)**

[Hb, C, D and E hemoglobinopathies] Ohba Y, et al. **Nippon Rinsho** 1996 Sep;54(9):2448–53 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Neonatal screening of hemoglobinopathies in a population residing in Portugal] Peres MJ, et al. **Acta Med Port** 1996 Apr–Jun;9(4–6):135–9 (Eng. Abstr.) **(Por)**

DRUG THERAPY

Hydroxyurea therapy in highly unstable hemoglobin carriers [letter] Rose C, et al. **Blood** 1996 Oct 1;88(7):2807–8

EPIDEMIOLOGY

Major factors determining the frequencies of hemoglobinopathies in Oman [letter] Rajab A, et al. **Am J Med Genet** 1997 Aug 8;71(2):240–2

Iron deficiency and anaemia in children with a high prevalence of haemoglobinopathies: implications for screening. Linpisarn S, et al. **Int J Epidemiol** 1996 Dec; 25(6):1262–6

[Hemoglobinopathy in the county of Copenhagen] Birgens HS, et al. **Ugeskr Laeger** 1997 Jun 16;159(25):3934–9 (Eng. Abstr.) **(Dan)**

[Neonatal screening for hemoglobinopathies in the Brussels region] Tshilolo L, et al. **Rev Med Brux** 1997 Apr; 18(2):70–3 (Eng. Abstr.) **(Fre)**

[Detection campaign for hemoglobinopathies and thalassemias among school children in northern Extremadura] Martín Núñez G, et al. **Sangre (Barc)** 1995 Dec;40(6):459–64 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Distribution of hemoglobinopathy variants by ethnicity in a multiethnic state. Lorey FW, et al. **Genet Epidemiol** 1996; 13(5):501–12

GENETICS

Different hematological phenotypes caused by the interaction of triplicated alpha–globin genes and heterozygous beta–thalassemia. Camaschella C, et al. **Am J Hematol** 1997 Jun;55(2):83–8

Atypical HbH disease in a Surinamese patient resulting from a combination of the –SEA and –alpha 3.7 deletions with HbC heterozygosity. Giordano PC, et al. **Br J Haematol** 1997 Mar;96(4):801–5

A new type of hereditary persistence of fetal haemoglobin (HPFH): HPFH Tunisia beta + (+C–200)G gamma. Pissard S, et al. **Br J Haematol** 1996 Oct;95(1):67–72

Sequence–based diagnosis of hemoglobinopathies in the clinical laboratory. Reddy PL, et al. **Clin Lab Med** 1997 Mar;17(1):85–96 (16 ref.)

Maximal gamma–globin expression in the compound heterozygous state for –175G gamma HPFH and beta degree 39 nonsense thalassaemia: a case study. Pistidda P, et al. **Eur J Haematol** 1997 May;58(5):320–5

Distribution of hemoglobinopathy variants by ethnicity in a multiethnic state. Lorey FW, et al. **Genet Epidemiol** 1996; 13(5):501–12

Hereditary hemoglobinopathies in a population from southeast Brazil. Sonati MF, et al. **Hemoglobin** 1996 May; 20(2):175–9

Hemolytic anemias due to hemoglobinopathies. Poyart C, et al. **Mol Aspects Med** 1996 Apr;17(2):129–42

Pitfalls of genetic testing [letter; comment] Bunn HF, et al. **N Engl J Med** 1996 Oct 17;335(16):1236; discussion 1236–7 . Comment on: N Engl J Med 1996 May 2;334(18):1192–4.

METABOLISM

Pharmacokinetics and safety of single oral doses of VX–366 (isobutyramide) in healthy volunteers. Brettman LR, et al. **J Clin Pharmacol** 1996 Jul;36(7):617–22

Tissue oxygenation in patients with hemoglobinopathy H [see comments] Papassotiriou I, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):323–34. Comment in: Pediatr Hematol Oncol 1997 Jul–Aug;14(4):295–7.

Oxygen parameters in the presence of hemoglobin H [comment] Siggaard–Andersen O, et al. **Pediatr Hematol Oncol** 1997 Jul–Aug;14(4):295–7. Comment on: Pediatr Hematol Oncol 1997 Jul–Aug;14(4):323–34.

PHYSIOPATHOLOGY

Unstable hemoglobin as a cause of congenital hemolytic anemia. Singh R, et al. **Indian Pediatr** 1996 Jul;33(7):587–9

Fetal erythropoiesis and the diagnosis and treatment of hemoglobin disorders in the fetus and child. Olivieri NF. **Semin Perinatol** 1997 Feb;21(1):63–9 (53 ref.)

PREVENTION & CONTROL

Infants in Sandwell are screened for haemoglobinopathy gene [letter; comment] Rao J, et al. **BMJ** 1996 Nov 30; 313(7069):1403. Comment on: BMJ 1996 Aug 17;313(7054):407–11.

A cost–effectiveness evaluation of newborn hemoglobinopathy screening from the perspective of state health care systems. Gessner BD, et al. **Early Hum Dev** 1996 Jul 19;45(3):257–75

Newborn metabolic disorder screening program: sickle cell disease and other hemoglobinopathies [news] Parkhurst J. **J Okla State Med Assoc** 1997 Jul–Aug;90(6):256–7

[Neonatal screening for hemoglobinopathies in the Brussels region] Tshilolo L, et al. **Rev Med Brux** 1997 Apr; 18(2):70–3 (Eng. Abstr.) **(Fre)**

THERAPY

Current status of allogeneic transplantation for haemoglobinopathies. Roberts I. **Br J Haematol** 1997 Jul;

HEMOGLOBINOPATHIES

98(1):1-7 (55 ref.)

Genetic treatment of the haemoglobinopathies: recombinations and new combinations. Sadelain M. **Br J Haematol** 1997 Aug;98(2):247-53 (63 ref.)

Should children with hemoglobinopathies be offered unrelated-donor cord blood stem cell transplantation? [editorial; comment] Harris RE, et al. **J Pediatr** 1997 May; 130(5):689-91. Comment on: J Pediatr 1997 May;130(5):695-703.

Umbilical cord blood stem cells: application for the treatment of patients with hemoglobinopathies [see comments] Kelly P, et al. **J Pediatr** 1997 May;130(5):695-703 (83 ref.). Comment in: J Pediatr 1997 May;130(5):689-91.

[New treatments of hemoglobinopathies] de Montalembert M. **Presse Med** 1997 Jun 14;26(20):972-6 (32 ref.) **(Fre)**

HEMOGLOBINS

Comparison between CDI-100 continuous SO2, Hb, and Hct monitoring, intermittent ABL-4 saturation and Hb monitoring, and lab Hb and Hct monitoring. Nauwynck M, et al. **Acta Anaesthesiol Belg** 1996;47(4):199-206

Cerebral O2 transport with hematocrit reduced by cross-linked hemoglobin transfusion. Ulatowski JA, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H466-75

Biomonitoring of epichlorohydrin by hemoglobin adducts. Landin HH, et al. **Anal Biochem** 1996 Aug 15;240(1):1-6

Hydrogels prepared by electron irradiation of poly(ethylene oxide) in water solution: unexpected dependence of cross-link density and protein diffusion coefficients on initial PEO molecular weight. Kofinas P, et al. **Biomaterials** 1996 Aug;17(15):1547-50

Interferences of o-raffinose cross-linked hemoglobin in three methods for serum creatinine. Ali AC, et al. **Clin Chem** 1997 Sep;43(9):1738-43

Interference of o-raffinose cross-linked hemoglobin with routine Hitachi 717 assays. Ali AC, et al. **Clin Chem** 1997 Sep;43(9):1794-6

Evaluation of HemogloBind for removal of o-raffinose cross-linked hemoglobin (Hemolink) from serum. Balion CM, et al. **Clin Chem** 1997 Sep;43(9):1796-7

Effect of hemoglobin- and Perflubron-based oxygen carriers on common clinical laboratory tests. Ma Z, et al. **Clin Chem** 1997 Sep;43(9):1732-7

Effect of Hemopure on the performance of Ektachem and Hitachi clinical analyzers. Moreira PL, et al. **Clin Chem** 1997 Sep;43(9):1790-1

Effect of Hemopure on prothrombin time and activated partial thromboplastin time on seven coagulation analyzers. Moreira PL, et al. **Clin Chem** 1997 Sep;43(9):1792

Effect of hemoglobin-based oxygen carrier-201 on common chemistry laboratory procedures. Sarkozi L, et al. **Clin Chem** 1997 Sep;43(9):1792-4

New blood free biphasic medium with haemoglobin for cultivation of Leishmania donovani promastigotes. Agarwal M, et al. **Indian J Exp Biol** 1996 Dec; 34(12):1233-6

Scanning (atomic) force microscopy imaging of earthworm haemoglobin calibrated with spherical colloidal gold particles. Xu S, et al. **J Microsc** 1997 Jul;187 (Pt 1):43-53

Evaluation of angiogenic inhibitors with an in vivo quantitative angiogenesis method using agarose microencapsulation and mouse hemoglobin enzyme-linked immunosorbent assay. Okada N, et al. **Jpn J Cancer Res** 1996 Sep;87(9):952-7

Isoelectric focusing differences in the mobility of blood and semen PGM1 bands--the role of hemoglobin as a cause. Takayama T, et al. **Nippon Hoigaku Zasshi** 1996 Oct; 50(5):331-5

New Jersey researchers testing unique blood substitute [news] **Oncology (Huntingt)** 1995 Jun;9(6):486, 489

ADMINISTRATION & DOSAGE

Alteration of cerebral microcirculation by hemodilution with hemosome in awake rats. Wang YC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan; 24(1):35-42

Submicron polymer membrane hemoglobin nanocapsules as potential blood substitutes: preparation and characterization. Yu WP, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May; 24(3):169-83

Surface modification of hemoglobin vesicles with poly(ethylene glycol) and effects on aggregation, viscosity, and blood flow during 90% exchange transfusion in anesthetized rats. Sakai H, et al. **Bioconjug Chem** 1997 Jan-Feb;8(1):23-30

Induction of protective immunity in cattle against infection with Fasciola hepatica by vaccination with cathepsin L proteinases and with hemoglobin. Dalton JP, et al. **Infect Immun** 1996 Dec;64(12):5066-74

Hemoglobin increases mortality from bacterial endotoxin. Su D, et al. **Infect Immun** 1997 Apr;65(4):1258-66

Blood volume and cardiac index in rats after exchange transfusion with hemoglobin-based oxygen carriers. Migita R, et al. **J Appl Physiol** 1997 Jun;82(6):1995-2002

Liposome encapsulation attenuates hemoglobin-induced vasoconstriction in rabbit arterial segments. Rudolph AS, et al. **J Appl Physiol** 1997 Jun;82(6):1826-35

Isovolemic hemodilution with a bovine hemoglobin-based oxygen carrier: effects on hemodynamics and oxygen transport in comparison with a nonoxygen-carrying volume substitute [see comments] Krieter H, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):3-9. Comment in: J Cardiothorac Vasc Anesth 1997 Feb;11(1):1-2.

Hemoglobin-based oxygen carriers: problems and promise [editorial; comment] Tremper KK. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):1-2. Comment on: J Cardiothorac Vasc Anesth 1997 Feb;11(1):3-9. Comment on: J Cardiothorac Vasc Anesth 1997 Feb;11(1):10-2.

Role of complement in rats injected with liposome-encapsulated hemoglobin. Goins B, et al. **J Surg Res** 1997 Mar;68(2):99-105

Complement activation in vitro by the red cell substitute, liposome-encapsulated hemoglobin: mechanism of activation and inhibition by soluble complement receptor type 1. Szebeni J, et al. **Transfusion** 1997 Feb;37(2):150-9

ADVERSE EFFECTS

Recombinant human hemoglobin does not affect renal function in humans: analysis of safety and pharmacokinetics. Viele MK, et al. **Anesthesiology** 1997 Apr;86(4):848-58

The toxicities of native and modified hemoglobins. Everse J, et al. **Free Radic Biol Med** 1997;22(6):1075-99 (209 ref.)

Nitric oxide binding and the adverse effects of cell-free hemoglobins: what makes us different from earthworms [editorial; comment] Loscalzo J. **J Lab Clin Med** 1997 Jun; 129(6):580-3 (30 ref.). Comment on: J Lab Clin Med 1997 Jun;129(6):603-10.

Role of complement in rats injected with liposome-encapsulated hemoglobin. Goins B, et al. **J Surg Res** 1997 Mar;68(2):99-105

Pulmonary hypertension and systemic vasoconstriction may offset the benefits of acellular hemoglobin blood substitutes. de Figueiredo LF, et al. **J Trauma** 1997 May;42(5):847-54; discussion 854-6

ANALYSIS

Some haematological and immunological parameters of farmed deer in Hungary. Zomborszky Z, et al. **Acta Vet Hung** 1997;45(1):75-84

Correlation between absolute deoxyhaemoglobin [dHb] measured by near infrared spectroscopy (NIRS) and absolute R2' as determined by magnetic resonance imaging (MRI). Punwani S, et al. **Adv Exp Med Biol** 1997; 413:129-37

Signal sources in bold contrast fMRI. Turner R. **Adv Exp Med Biol** 1997;413:19-25 (31 ref.)

Observations of stillbirths, birthweight and maternal haemoglobin in teenage pregnancy in Ibadan, Nigeria. Onadeko MO, et al. **Afr J Med Med Sci** 1996 Mar; 25(1):81-6

Expected hemoglobin decrease following percutaneous transluminal coronary angioplasty. Jauch W, et al. **Am J Cardiol** 1997 Jul 1;80(1):71-4

Effective community intervention to improve hemoglobin status in preschoolers receiving once-weekly iron supplementation. Palupi L, et al. **Am J Clin Nutr** 1997 Apr; 65(4):1057-61

Reticulocyte hemoglobin: an integrated parameter for evaluation of erythropoietic activity. Brugnara C, et al. **Am J Clin Pathol** 1997 Aug;108(2):133-42

The erythrocyte cell hemoglobin distribution width segregates thalassemia traits from other nonthalassemic conditions with microcytosis. Liu TC, et al. **Am J Clin Pathol** 1997 May;107(5):601-7

Comparative study of bedside and laboratory measurements of hemoglobin. Krenzischek DA, et al. **Am J Crit Care** 1996 Nov;5(6):427-32

Adjustment of DLCO for hemoglobin concentration. Marrades RM, et al. **Am J Respir Crit Care Med** 1997 Jan; 155(1):236-41

Blood doping and erythropoietin. The effects of variation in hemoglobin concentration and other related factors on physical performance. Ekblom B. **Am J Sports Med** 1996; 24(6 Suppl):S40-2

The shift of haemoglobin oxygen saturation with hypothermia--an underestimated effect? [letter] Weightman WM, et al. **Anaesth Intensive Care** 1996 Oct; 24(5):614-5

A CE/ESI-MS interface for stable, low-flow operation. Kirby DP, et al. **Anal Chem** 1996 Dec 15;68(24):4451-7

Should the transfusion trigger and hemoglobin low critical limit be identical? Lum G. **Ann Clin Lab Sci** 1997 Mar-Apr; 27(2):130-4

Evaluation of brain oxygenation during selective cerebral perfusion by near-infrared spectroscopy. Katoh T, et al. **Ann Thorac Surg** 1997 Aug;64(2):432-6

Haemoglobin values in venous and skin puncture blood [letter; comment] Hinchliffe RF, et al. **Arch Dis Child** 1996 Aug;75(2):170-1. Comment on: Arch Dis Child 1996 Jan;74(1):36-9.

Microdisperse form of immobilized hemoglobin modelling the erythrocytes. Kuznetsova NP, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):463-72

Accuracy of two pulse oximeters during maximal cycling exercise. Wood RJ, et al. **Aust J Sci Med Sport** 1997 Jun; 29(2):47-50

Detection of nitrosyl complexes in human substantia nigra, in relation to Parkinson's disease. Shergill JK, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):298-305

Hematological parameters of the mother and neonatal status during normal labor. Vitoratos N, et al. **Biol Neonate** 1997; 71(3):156-61

Proposal on RBC transfusion guidelines for BMT [letter] Aoki Y. **Bone Marrow Transplant** 1996 Jul;18(1):261

A new method for measuring menstrual blood loss and its use in screening women before endometrial ablation [letter; comment] O'Brien P. **Br J Obstet Gynaecol** 1997 Apr; 104(4):510. Comment on: Br J Obstet Gynaecol 1996 Oct;103(10):1029-33.

Perioperative on-site haemoglobin determination: as accurate as laboratory values? [see comments] Jaeger M, et al. **Can J Anaesth** 1996 Aug;43(8):795-8. Comment in: Can J Anaesth 1997 Apr;44(4):451; discussion 452. Comment in: Can J Anaesth 1997 Apr;44(4):451-2.

Photometric haemoglobin assessment [letter; comment] Kerkkamp HE. **Can J Anaesth** 1997 Apr;44(4):451; discussion 452. Comment on: Can J Anaesth 1996 Aug;43(8):795-8.

Photometric haemoglobin assessment [letter; comment] Luger TJ, et al. **Can J Anaesth** 1997 Apr;44(4):451-2. Comment on: Can J Anaesth 1996 Aug;43(8):795-8.

Serum concentrations of micronutrients, packed cell volume, and blood hemoglobin during the first two gestations and lactations of sows. Girard CL, et al. **Can J Vet Res** 1996 Jul;60(3):179-85

Cytochrome P4501A2: enzyme induction and genetic control in determining 4-aminobiphenyl-hemoglobin adduct levels. Landi MT, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Sep;5(9):693-8

Determination of albumin and hemoglobin adducts in workers exposed to styrene and styrene oxide. Yeowell-O'Connell K, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):205-15

Hemoglobin adducts of acrylamide and acrylonitrile in laboratory workers, smokers and nonsmokers. Bergmark E. **Chem Res Toxicol** 1997 Jan;10(1):78-84

Application of the Department of Health and Human Services proposed waived status requirements for in vitro diagnostic testing devices: case study. Ehrmeyer SS, et al. **Clin Chem** 1997 Sep;43(9):1610-7

Interference of methylene blue with CO-Oximetry of hemoglobin derivatives. Gourlain H, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):1078-80

Data processing in CO-oximeters that use overdetermined systems [letter] Yukawa N, et al. **Clin Chem** 1997 Jan; 43(1):189-91

The effect of toilet sanitizers and detergents on immunological occult blood tests. Imafuku Y, et al. **Clin Chim Acta** 1996 Sep 30;253(1-2):51-9

Application of near infrared spectroscopy to the determination of haemoglobin. Vályi-Nagy I, et al. **Clin Chim Acta** 1997 Aug 8;264(1):117-25

A fast hemoglobin variant on newborn screening is associated with alpha-thalassemia trait. Miller ST, et al. **Clin Pediatr (Phila)** 1997 Feb;36(2):75-8

Haemoglobin, haematocrit, and insulin resistance [letter] Lemne C, et al. **Diabet Med** 1996 Nov;13(11):1000

Evaluation of pulse oximetry in anaesthetised foals using multiple combinations of transducer type and transducer attachment site. Chaffin MK, et al. **Equine Vet J** 1996 Nov; 28(6):437-45

Peri-operative haemoglobin: an overview of current opinion regarding the acceptable level of haemoglobin in the peri-operative period. Wedgwood JJ, et al. **Eur J Anaesthesiol** 1996 Jul;13(4):316-24 (58 ref.)

Haemoglobin adducts of N-nitroso compounds. Richter E. **Eur J Cancer Prev** 1996 Sep;5 Suppl 1:115-9 (32 ref.)

Lipid interference in the determination of the concentration of haemoglobin in plasma using the ACA SX analyzer. Heller C, et al. **Eur J Clin Chem Clin Biochem** 1996 Oct; 34(10):811-6

Quantification of loss of haemoglobin components from the circulating red blood cell in vivo. Willekens FL, et al. **Eur J Haematol** 1997 Apr;58(4):246-50

Fetal pulse oximetry: influence of tissue blood content and hemoglobin concentration in a new in-vitro model. Edrich T, et al. **Eur J Obstet Gynecol Reprod Biol** 1997 Mar;72 Suppl:S29-34

Iron deficiency anemia in pregnancy [letter; comment] Paul Y. **Indian Pediatr** 1996 Nov;33(11):969-70. Comment on: Indian Pediatr 1996 Jul;33(7):606.

Identification of five hemoglobins in B6C3F1 mice by mass spectrometry and sequence analysis. Palm L, et al. **Int J Biochem Cell Biol** 1996 Dec;28(12):1319-26

Serum erythropoietin during normal pregnancy: relationship to hemoglobin and iron status markers and impact of iron supplementation in a longitudinal, placebo-controlled study on 118 women. Milman N, et al. **Int J Hematol** 1997 Aug; 66(2):159-68

Association between pre-PTCA blood haemoglobin concentration and the risk of symptomatic restenosis after successful PTCA of primary coronary stenoses. Gustavsson CG, et al. **J Cardiovasc Risk** 1997 Feb;4(1):37-40

Study of haptoglobin-hemoglobin complexes by titration curves, capillary electrophoresis and capillary isoelectric focusing. Righetti PG, et al. **J Chromatogr A** 1997 Apr 11;767(1-2):255-62

In vitro metabolism of LVV-hemorphin-7 in human plasma studied by reversed-phase high-performance liquid chromatography and micro-electrospray mass

spectrometry. Sanderson K, et al. **J Chromatogr A** 1996 Aug 30;743(1):207–12

Reversed–phase high–performance liquid chromatography coupled with second–order derivative spectroscopy for the quantitation of aromatic amino acids in peptides: application to hemorphins. Zhao Q, et al. **J Chromatogr A** 1996 Feb 2;723(1):35–41

New support for the affinity chromatography of hemoglobin. Görner T, et al. **J Chromatogr B Biomed Appl** 1997 Jun 20;694(1):39–48

Analysis of single erythrocytes by injection–based capillary isoelectric focusing with laser–induced native fluorescence detection. Lillard SJ, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):363–9

Simultaneous solid–phase extraction and gas chromatographic–mass spectrometric determination of hemoglobin adducts from tobacco–specific nitrosamines and aromatic amines. Kutzer C, et al. **J Chromatogr Sci** 1997 Jan;35(1):1–6

The relationship between hemoglobin levels and diabetic retinopathy. Qiao Q, et al. **J Clin Epidemiol** 1997 Feb; 50(2):153–8

Quantification of glycated hemoglobin by electrospray ionization mass spectrometry. Nakanishi T, et al. **J Mass Spectrom** 1997 Jul;32(7):773–8

Mass spectrometric identification and quantification of hemorphins extracted from human adrenal and pheochromocytoma tissue. Cerpa–Poljak A, et al. **J Neurochem** 1997 Apr;68(4):1712–9

Serum ferritin, erythrocyte protoporphyrin and hemoglobin are valid indicators of iron status of school children in a malaria–holoendemic population. Stoltzfus RJ, et al. **J Nutr** 1997 Feb;127(2):293–8

Haemoglobin concentration and erythrocyte sedimentation rate in primary care patients [see comments] Kanfer EJ, et al. **J R Soc Med** 1997 Jan;90(1):16–8. Comment in: J R Soc Med 1997 Mar;90(3):179–80. Comment in: J R Soc Med 1997 Apr;90(4):236. Comment in: J R Soc Med 1997 Apr;90(4):236–7.

Haemoglobin and ESR [letter; comment] Lane R. **J R Soc Med** 1997 Apr;90(4):236. Comment on: J R Soc Med 1997 Jan;90(1):16–8.

Haemoglobin and ESR [letter; comment] Porter AW. **J R Soc Med** 1997 Apr;90(4):236–7. Comment on: J R Soc Med 1997 Jan;90(1):16–8.

Hemoglobin types, erythrocyte membrane skeleton and plasma iron concentration in calves with poikilocytosis. Okabe J, et al. **J Vet Med Sci** 1996 Jul;58(7):629–34

Reticulocyte hemoglobin content in the evaluation of iron status of hemodialysis patients. Fishbane S, et al. **Kidney Int** 1997 Jul;52(1):217–22

Comparison of methods to determine chromophore concentrations from fluorescence spectra of turbid samples. Durkin AJ, et al. **Lasers Surg Med** 1996;19(1):75–89

Mechanism and echo time dependence of the fast response in fMR. Dymond RC, et al. **Magn Reson Med** 1997 Jul; 38(1):1–6

Serum erythropoietin levels in children with leukemia. Dowd MD, et al. **Med Pediatr Oncol** 1997 Apr;28(4):259–67

In vivo spin trapping of nitric oxide by heme: electron paramagnetic resonance detection ex vivo. Hall DM, et al. **Methods Enzymol** 1996;268:188–92

Detection of nitric oxide by electron spin resonance in chemical, photochemical, cellular, physiological, and pathophysiological systems. Kalyanaraman B. **Methods Enzymol** 1996;268:168–87

Electron paramagnetic resonance characterization of rat neuronal nitric oxide production ex vivo. Kozlov AV, et al. **Methods Enzymol** 1996;268:229–36

Percentage of hypochromic red blood cells as predictor of erythropoietic and iron response after i.v. iron supplementation in maintenance haemodialysis patients. Braun J, et al. **Nephrol Dial Transplant** 1997 Jun; 12(6):1173–81

Early increase in blood nitric oxide, detected by electron paramagnetic resonance as nitrosylhaemoglobin, in haemodialysis. Roccatello D, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):292–7

Decrease in the haemoglobin level in haemodialysis patients undergoing antiandrogen therapy. Teruel JL, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1262–3

The effect of behavioural states on cerebral oxygenation during endotracheal suctioning of preterm babies. Bernert G, et al. **Neuropediatrics** 1997 Apr;28(2):111–5

Rhesus isoimmunization: increased hemolysis during early infancy. Hayde M, et al. **Pediatr Res** 1997 May;41(5):716–21

Use of near–infrared spectroscopy in the adult. Kirkpatrick PJ. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):701–5 (11 ref.)

Non–invasive measurements of breast tissue optical properties using frequency–domain photon migration. Tromberg BJ, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29; 352(1354):661–8

The ratio of amount of haemoglobin to total surface area of erythrocytes in birds in relation to body mass, age of nestlings, and season of the year. Kostelecka–Myrcha A. **Physiol Zool** 1997 May–Jun;70(3):278–82

Rapid analysis of hemoglobin from whole human blood by matrix–assisted laser desorption/ionization time–of–flight mass spectrometry. Houston CT, et al. **Rapid Commun Mass Spectrom** 1997;11(13):1435–9

The use of on–line capillary electrophoresis/electrospray ionization with detection via an ion trap storage/reflectron time–of–flight mass spectrometer for rapid mutation–site analysis of hemoglobin variants. Li MX, et al. **Rapid Commun Mass Spectrom** 1997;11(1):99–108

Simultaneous measurement of total hemoglobin and its derivatives in blood using CO–oximeters: analytical principles; their application in selecting analytical wavelengths and reference methods; a comparison of the results of the choices made. Brunelle JA, et al. **Scand J Clin Lab Invest Suppl** 1996;224:47–69 (34 ref.)

Somatostatin in the treatment of gastrointestinal bleeding caused by angiodysplasia. Andersen MR, et al. **Scand J Gastroenterol** 1996 Oct;31(10):1037–9

Fecal marker variability in colorectal cancer: calprotectin versus hemoglobin. Gilbert JA, et al. **Scand J Gastroenterol** 1996 Oct;31(10):1001–5

The Functional Assessment of Cancer Therapy–Anemia (FACT–An) Scale: a new tool for the assessment of outcomes in cancer anemia and fatigue. Cella D. **Semin Hematol** 1997 Jul;34(3 Suppl 2):13–9

Iron status of Filipino infants and preschoolers using plasma ferritin and transferrin receptor levels. Kuizon MD, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):343–9

Hemoglobin, hematocrit, and stroke incidence and mortality in women and men [letter] Gillum RF, et al. **Stroke** 1996 Oct;27(10):1910

Clinical evaluation of near–infrared spectroscopy for testing cerebrovascular reactivity in patients with carotid artery disease. Smielewski P, et al. **Stroke** 1997 Feb;28(2):331–8

Laboratory parameters following contact laser ablation of the prostate for benign prostatic hypertrophy. Gomella LG, et al. **Tech Urol** 1995 Fall;1(3):168–71

Losartan decreases hemoglobin in renal transplant recipients. Ducloux D, et al. **Transplant Proc** 1997 Aug;29(5):2402–3

Reproductive and socio–economic correlates of maternal haemoglobin levels in a rural area of Papua New Guinea. Tracer DP. **Trop Med Int Health** 1997 Jun;2(6):513–8

Relationship between maternal and neonatal iron stores. Tekinalp G, et al. **Turk J Pediatr** 1996 Oct–Dec; 38(4):439–45

Reference ranges and the influence of age and sex on haematological values of the endangered Catalonian donkey. Folch P, et al. **Vet J** 1997 Sep;154(2):163–8

Experimental detection of canine haemoglobin (occult blood) in canine faeces by reversed passive latex agglutination. Jinbo T, et al. **Vet Res Commun** 1997 Jul;21(5):347–53

Safe hemoglobin or hematocrit levels in surgical patients. Lundsgaard–Hansen P. **World J Surg** 1996 Nov–Dec; 20(9):1182–8

[Changes of serum enzymes, lactate and hemoglobin concentrations in the blood of young trotting horses due to training exertion] Krzywanek H, et al. **Zentralbl Veterinarmed A** 1996 Aug;43(6):345–52 (Eng. Abstr.) **(Ger)**

[A simple, lightweight device for measurement of hemoglobin; the HemoCue Blood Hemoglobin Test] Nishiyama T, et al. **Masui** 1997 Feb;46(2):284–5 (Eng. Abstr.) **(Jpn)**

[Hemoglobin, iron deficiency and anemia in pregnant women. Diagnostic aspects] Haram K, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):962–6 (37 ref.) (Eng. Abstr.) **(Nor)**

[Accepted low hemoglobin levels in the perioperative period. A questionnaire survey among Norwegian anesthesiologists] Kongsgaard UE, et al. **Tidsskr Nor Laegeforen** 1996 Nov 10;116(27):3219–21 (Eng. Abstr.) **(Nor)**

[The effect of the use of milk fortified with iron and vitamin C on hemoglobin levels and nutritional status of children under 2] Torres MA, et al. **Rev Saude Publica** 1995 Aug; 29(4):301–7 (Eng. Abstr.) **(Por)**

[Effect of diaminodiphenylsulfone on parameters of diurnal rhythm of hematological indices in mice] Iushchenko AA, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):455–9 **(Rus)**

BIOSYNTHESIS

Stimulation of newborn–like hemoglobin synthesis in adult rats by recombinant human erythropoietin and suppression by aspirin. Abdelrahman HG, et al. **Acta Haematol** 1996; 96(4):214–20

Tiazofurin–induced autosecretion of IL–6 and hemoglobin production in K562 human leukemia cells. Talley CJ, et al. **Am J Hematol** 1997 Apr;54(4):301–5

A possible involvement of Stat5 in erythropoietin–induced hemoglobin synthesis. Wakao H, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):198–205

Can ferritin provide iron for hemoglobin synthesis? [letter] Ponka P, et al. **Blood** 1997 Apr 1;89(7):2611–3

Hematopoietic cell phosphatase negatively regulates erythropoietin–induced hemoglobinization in erythroleukemic SKT6 cells. Sharlow ER, et al. **Blood** 1997 Sep 15;90(6):2175–87

Utilization of intracellular ferritin iron for hemoglobin synthesis in developing human erythroid precursors. Vaisman B, et al. **Blood** 1997 Jul 15;90(2):831–8

Epo–induced hemoglobinization of SKT6 cells is mediated by minimal cytoplasmic domains of the Epo or prolactin receptors without modulation of GATA–1 or EKLF. Reese TT, et al. **Growth Factors** 1997;14(2–3):161–76

Effects of a diphenyl–ether herbicide, oxyfluorfen, on human BFU–E/CFU–E development and haemoglobin synthesis. Rio B, et al. **Hum Exp Toxicol** 1997 Feb;16(2):115–22

Chicken extract stimulates haemoglobin restoration in iron deficient rats. Geissler C, et al. **Int J Food Sci Nutr** 1996 Jul;47(4):351–60

GlbN (cyanoglobin) is a peripheral membrane protein that is restricted to certain Nostoc spp. Hill DR, et al. **J Bacteriol** 1996 Nov;178(22):6587–98

5–Aminolevulinate synthase expression and hemoglobin synthesis in a human myelogenous leukemia cell line. Nagai T, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):487–95

Inorganic iron can be used to build hemoglobin (Stockman, 1893). Ahrens RA. **J Nutr** 1997 May;127(5 Suppl):1022S–1023S

Effect of long–term low–dose aluminum–containing agents on hemoglobin synthesis in patients with chronic renal insufficiency. Lin JL, et al. **Nephron** 1996;74(1):33–8

Association of –158 (C—>T) (XmnI) DNA polymorphism in G gamma–globin promoter with delayed switchover from fetal to adult hemoglobin synthesis. Peri KG, et al. **Pediatr Res** 1997 Feb;41(2):214–7

Formation of nitrosyl hemoglobin and nitrotyrosine during murine leishmaniasis. Giorgio S, et al. **Photochem Photobiol** 1996 Jun;63(6):750–4

Erythropoietin, iron metabolism, and red blood cell production. Adamson J. **Semin Hematol** 1997 Apr;33(2 Suppl 2):5–7; discussion 8–9

CEREBROSPINAL FLUID

Rapid analysis of endogenous LVV–hemorphin–7 in cerebrospinal fluid by size–exclusion chromatography and electrospray ionization mass spectrometry. Silberring J, et al. **J Chromatogr A** 1997 Aug 8;777(1):41–5

CHEMICAL SYNTHESIS

Protein engineering strategies for designing more stable hemoglobin–based blood substitutes. Olson JS, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):227–41 (29 ref.)

CHEMISTRY

Natural and artificial carbohydrate–glued protein aggregates. Matsubara K, et al. **Adv Biophys** 1997;34:253–62 (24 ref.)

The role of amino groups in hemoglobin oxygen binding. Anderson PJ, et al. **Adv Exp Med Biol** 1996;388:611–5

The separation of hemoglobin–acetaldehyde adducts by cation exchange chromatography: a brief history. Itälä L, et al. **Alcohol Alcohol Suppl** 1994;2:509–13 (38 ref.)

Improved electrophoresis and transfer of picogram amounts of protein with hemoglobin. Gillespie PG, et al. **Anal Biochem** 1997 Mar 15;246(2):239–45

Determination of intermediates of hemoglobin–haptoglobin complex of haptoglobin polymers by "Crossed hemoglobin electrophoresis". Okazaki T, et al. **Anal Biochem** 1996 Aug 1;239(2):123–9

Use of a polybrene capillary coating in capillary electrophoresis for rapid analysis of hemoglobin variants with on–line detection via an ion trap storage/reflectron time–of–flight mass spectrometer. Li MX, et al. **Anal Chem** 1997 Jul 1;69(13):2451–6

Effect of the vinyl–globin interactions on the temperature–dependent broadening of the Soret spectra: a study with horse myoglobin and Scapharca dimeric hemoglobin reconstituted with unnatural 2,4–heme derivatives. Boffi A, et al. **Arch Biochem Biophys** 1997 Apr 1;340(1):43–51

Identification of the subunit loci in the extracellular multisubunit hemoglobin from annelid Perinereis aibuhitensis. Yamaki M, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):23–31

Synthesis and mass spectrometric identification of the major amino acid adducts formed between sulphur mustard and haemoglobin in human blood. Noort D, et al. **Arch Toxicol** 1997;71(3):171–8

Structure and stability of human hemoglobin microparticles prepared with a double emulsion technique. Cedrati N, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):457–62

A starch–hemoglobin resuscitative compound. Cerny LC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Mar; 24(2):153–60

Recent and future developments in modified hemoglobin and microencapsulated hemoglobin as red blood cell substitutes. Chang TM. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):1–24 (86 ref.)

Viscosity measurements for LEH suspended in different plasma expanders. Chung TW, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):393–406

Simulation of oxygen saturation of hemoglobin solution, RBC suspension and hemosome by a neural network system. Kan P, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Mar;24(2):143–51

Detection of residual polyethylene glycol derivatives in pyridoxylated–hemoglobin–polyoxyethylene conjugate. Miles PJ, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May; 25(3):315–26

Evidence for heme–heme excitonic coupling in the Soret circular dichroism of hemoglobin. Goldbeck RA, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):610–4

HEMOGLOBINS

Thermodynamic stability of the asymmetric doubly-ligated hemoglobin tetramer (alpha+CNbeta+CN)(alphabeta): methodological and mechanistic issues. Ackers GK, et al. **Biochemistry** 1997 Sep 9;36(36):10822-9

Stereochemistry of the Fe(II)- and Fe(III)-cyanide complexes of the homodimeric Scapharca inaequivalvis hemoglobin. A resonance Raman and FTIR study. Boffi A, et al. **Biochemistry** 1997 Apr 15;36(15):4505-9

Three-dimensional reconstruction of native and reassembled Lumbricus terrestris extracellular hemoglobin. Localization of the monomeric globin chains. de Haas F, et al. **Biochemistry** 1997 Jun 17;36(24):7330-8

Can a two-state MWC allosteric model explain hemoglobin kinetics? Henry ER, et al. **Biochemistry** 1997 May 27; 36(21):6511-28 (74 ref.)

Quaternary structure sensitive tyrosine interactions in hemoglobin: a UV resonance Raman study of the double mutant rHb (beta99Asp-->Asn, alpha42Tyr-->Asp). Huang S, et al. **Biochemistry** 1997 May 20;36(20):6197-206

Assignment and analysis of fluorine nuclear magnetic resonance spectra of 4-fluorotryptophan myoglobins and hemoglobins. Pearson JG, et al. **Biochemistry** 1997 Mar 25;36(12):3590-9

Contribution of surface histidyl residues in the alpha-chain to the Bohr effect of human normal adult hemoglobin: roles of global electrostatic effects. Sun DP, et al. **Biochemistry** 1997 Jun 3;36(22):6663-73

Investigation by electrospray ionization mass spectrometry of the extracellular hemoglobin from the polychaete annelid Alvinella pompejana: an unusual hexagonal bilayer hemoglobin. Zal F, et al. **Biochemistry** 1997 Sep 30; 36(39):11777-86

Solution NMR study of the structural basis of the Bohr effect in the monomeric hemoglobins from Chironomus thummi thummi. Zhang W, et al. **Biochemistry** 1997 Feb 18; 36(7):1689-98

Photochemical reactions of nitrosyl hemoglobin during exposure to low-power laser irradiation. Borisenko GG, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):661-6

Diffusion coefficients of oxygen and hemoglobin measured by facilitated oxygen diffusion through hemoglobin solutions. Bouwer ST, et al. **Biochim Biophys Acta** 1997 Mar 7;1338(1):127-36

Near infrared absorption spectra of human deoxy- and oxyhaemoglobin in the temperature range 20-40 degrees C. Sfareni R, et al. **Biochim Biophys Acta** 1997 Jul 18; 1340(2):165-9

Proton-NMR investigation of the heme cavity in the cyanomet derivative of the cooperative homodimeric hemoglobin from Scapharca inaequivalvis. Wu Y, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):261-75

Structure of chain d of the gigantic hemoglobin of the earthworm. Xie Q, et al. **Biochim Biophys Acta** 1997 Feb 8;1337(2):241-7

Electrospray mass spectrometry of alpha and beta chains of selected hemoglobins and their TNBA and TNB conjugates. Adamczyk M, et al. **Bioconjug Chem** 1997 May-Jun;8(3):400-6

PEG thiazolidine-2-thione, a novel reagent for facile protein modification: conjugation of bovine hemoglobin. Greenwald RB, et al. **Bioconjug Chem** 1996 Nov-Dec; 7(6):638-41

Determination of the seven apparent equilibrium constants for the binding of oxygen by hemoglobin from measured fractional saturations. Alberty RA. **Biophys Chem** 1997 Jan 31;63(2-3):119-32

Functional heterogeneity of the alpha and beta subunits in the association reaction between hemoglobin and carbon monoxide. Perrella M, et al. **Biophys Chem** 1996 Oct 30; 61(2-3):169-76

Comparison between internal microviscosity of low-density erythrocytes and the microviscosity of hemoglobin solutions: an electron paramagnetic resonance study. Gennaro AM, et al. **Biophys J** 1996 Jul;71(1):389-93

Near-infrared spectra of Scapharca homodimeric hemoglobin: characterization of the deoxy and photodissociated derivatives. Huang J, et al. **Biophys J** 1996 Jun;70(6):2924-9

The oxygen-binding intermediates of human hemoglobin: evaluation of their contributions to cooperativity using zinc-containing hybrids. Huang Y, et al. **Biophys J** 1996 Oct;71(4):2094-105

Triplet state magnetic resonance and fluorescence spectroscopy of metal-substituted hemoglobins. Polm MW, et al. **Biophys J** 1997 Jan;72(1):373-82

A myoglobin mutant designed to mimic the oxygen-avid Ascaris suum hemoglobin: elucidation of the distal hydrogen bonding network by solution NMR. Zhang W, et al. **Biophys J** 1997 Aug;73(2):1019-30

Primary structure and biological activity of hemoglobin-related hypothalamic peptides. Galoyan AA. **Biopolymers** 1997;43(2):135-7 (30 ref.)

Hemoglobin as a source of endogenous bioactive peptides: the concept of tissue-specific peptide pool. Ivanov VT, et al. **Biopolymers** 1997;43(2):171-88 (60 ref.)

The hemorphins: a new class of opioid peptides derived from the blood protein hemoglobin. Nyberg F, et al. **Biopolymers** 1997;43(2):147-56 (63 ref.)

Molecular dynamics of a hemoglobin crosslinking reaction. Pavlik PA, et al. **Biopolymers** 1996 Oct;39(4):615-8

Opioid peptides derived from hemoglobin: hemorphins. Zhao Q, et al. **Biopolymers** 1997;43(2):75-98 (60 ref.)

Use of lightguide spectrophotometry to investigate the effect of postural changes on skin oxygenation in deep venous insufficiency. Hanna GB, et al. **Br J Surg** 1997 Apr; 84(4):520-3

Elevated levels of hemoglobin-associated acetaldehyde related to alcohol drinking in the atypical genotype of low Km aldehyde dehydrogenase. Takeshita T, et al. **Cancer Res** 1997 Apr 1;57(7):1241-3

Oxygen binding and aggregation of hemoglobin from the common European frog, Rana temporaria. Bardgard A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun;117(2):225-31

Asymmetric hemoglobins, their thiol content, and blood glutathione of the scalloped hammerhead shark, Sphyrna lewini. Dafré AL, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Mar; 116(3):323-31

Recombinant [Phe(beta)63]hemoglobin shows rapid oxidation of the beta chains and low-affinity, non-cooperative oxygen binding to the alpha subunits. Kiger L, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):365-73

Structural characterisation of acetaldehyde adducts formed by a synthetic peptide mimicking the N-terminus of the hemoglobin beta-chain under reducing and nonreducing conditions. Sillanaukee P, et al. **Eur J Biochem** 1996 Aug 15;240(1):30-6

Quaternary structure of the extracellular haemoglobin of the lugworm Arenicola marina: a multi-angle-laser-light-scattering and electrospray-ionisation-mass-spectrometry analysis. Zal F, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):85-92

Antihypertensive effect of angiotensin I-converting enzyme inhibitory peptides derived from hemoglobin. Mito K, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):93-8

Characterisation of S-nitrosohaemoglobin by mass spectrometry. Ferranti P, et al. **FEBS Lett** 1997 Jan 2; 400(1):19-24

Hemoglobin: a mechanism for the generation of hydroxyl radicals. Van Dyke BR, et al. **Free Radic Biol Med** 1996; 20(7):985-9

Chromatographic characterization of hemoglobin benzo[a]pyrene-7,8-diol-9,10-epoxide adducts. Myers SR, et al. **Fundam Appl Toxicol** 1996 Jan;29(1):94-101

Cloning and analysis of a cDNA encoding a two-domain hemoglobin chain from the water flea Daphnia magna. Tokishita S, et al. **Gene** 1997 Apr 11;189(1):73-8

Hemoglobin disorders in Macao. Ribeiro ML, et al. **Hemoglobin** 1997 May;21(3):271-9

The effects of in vivo and in vitro non-enzymatic glycosylation and glycoxidation on physico-chemical properties of haemoglobin in control and diabetic patients. Watala C, et al. **Int J Biochem Cell Biol** 1996 Dec; 28(12):1393-403

Hemoglobin transition from larval to adult types occurs within a single erythroid cell population during metamorphosis of the salamander Hynobius retardatus. Yamaguchi M, et al. **Int J Dev Biol** 1997 Aug;41(4):581-9

The anodic hemoglobin of Anguilla anguilla. Molecular basis for allosteric effects in a root-effect hemoglobin. Fago A, et al. **J Biol Chem** 1997 Jun 20;272(25):15628-35

Mutation of residue Phe97 to Leu disrupts the central allosteric pathway in Scapharca dimeric hemoglobin. Pardanani A, et al. **J Biol Chem** 1997 May 16; 272(20):13171-9

Assembly of human hemoglobin. Studies with Escherichia coli-expressed alpha-globin. Sanna MT, et al. **J Biol Chem** 1997 Feb 7;272(6):3478-86

The globin-based free radical of ferryl hemoglobin is detected in normal human blood. Svistunenko DA, et al. **J Biol Chem** 1997 Mar 14;272(11):7114-21

The unique hemoglobin system of Pleuragramma antarcticum, an antarctic migratory teleost. Structure and function of the three components. Tamburrini M, et al. **J Biol Chem** 1996 Sep 27;271(39):23780-5

Spectral demonstration of semihemoglobin formation during CN-hemin incorporation into human apohemoglobins. Vasudevan G, et al. **J Biol Chem** 1997 Jan 3;272(1):517-24

Assembly of the gigantic hemoglobin of the earthworm Lumbricus terrestris. Roles of subunit equilibria, non-globin linker chains, and valence of the heme iron. Zhu H, et al. **J Biol Chem** 1996 Nov 22;271(47):30007-21

TCR recognition of the Hb(64-76)/I-Ek determinant: single conservative amino acid changes in the complementarity-determining region 3 dramatically alter antigen fine specificity. Hsu BL, et al. **J Immunol** 1996 Sep 15;157(6):2291-8

Production and characteristics of an infusible oxygen-carrying fluid based on hemoglobin intramolecularly cross-linked with sebacic acid [see comments] Bucci E, et al. **J Lab Clin Med** 1996 Aug; 128(2):146-53. Comment in: J Lab Clin Med 1996 Aug;128(2):126-7.

Three-dimensional reconstruction by cryoelectron microscopy of the giant hemoglobin of the polychaete worm Alvinella pompejana. de Haas F, et al. **J Mol Biol** 1996 Nov 22;264(1):111-20

Asymmetric hemoglobin hybrids. Marden MC, et al. **J Mol Biol** 1996 Oct 18;263(1):90-7

Conformation-invariant structures of the alpha1beta1 human hemoglobin dimer. Nichols WL, et al. **J Mol Biol** 1997 Jul 25;270(4):598-615

Tension in haemoglobin revealed by Fe-His(F8) bond rupture in the fully liganded T-state. Paoli M, et al. **J Mol Biol** 1997 Aug 15;271(2):161-7

The crystal structure of horse deoxyhaemoglobin trapped in the high-affinity (R) state. Wilson J, et al. **J Mol Biol** 1996 Dec 13;264(4):743-56

Effects of phase separating systems on lyophilized hemoglobin. Heller MC, et al. **J Pharm Sci** 1996 Dec; 85(12):1358-62

Hemoglobin-dialdehyde dextran conjugates: improvement of their oxygen-binding properties with anionic groups. Bonneaux F, et al. **J Protein Chem** 1996 Jul;15(5):461-5

Amino acid sequences of hemoglobin beta chains of five species of pinnipeds: Neophoca cinerea, Otaria byronia, Eumetopias jubatus, Pusa hispida, and Pagophilus groenlandica. Ikehara T, et al. **J Protein Chem** 1996 Oct; 15(7):659-65

PCR amplification of cDNAs of fish hemoglobin beta chains using a consensus primer: cDNA-derived amino acid sequences of beta chains from the catfish Parasilurus asotus and the scad Decapterus maruadsi. Suzuki T, et al. **J Protein Chem** 1996 May;15(4):389-94

Structural features of Glycera dibranchiata monomer hemoglobins. Primary sequences of monomer hemoglobin components II and III. Teske JG, et al. **J Protein Chem** 1997 Feb;16(2):139-50

Reaction of human hemoglobin toward the alkylating agent S-(2-chloroethyl)glutathione. Erve JC, et al. **J Toxicol Environ Health** 1996 Oct 11;49(2):127-43

Carbamylated hemoglobin: a potential marker for the adequacy of hemodialysis therapy in end-stage renal failure. Davenport A, et al. **Kidney Int** 1996 Oct; 50(4):1344-51

Intrinsic fluorescence of hemoglobins and myoglobins. Gryczynski Z, et al. **Methods Enzymol** 1997;278:538-69 (63 ref.)

A test of the role of the proximal histidines in the Perutz model for cooperativity in haemoglobin. Barrick D, et al. **Nat Struct Biol** 1997 Jan;4(1):78-83

Kinetic of in vitro generation of some hemorphins: early release of LVV-hemorphin-7, precursor of VV-hemorphin-7. Dagouassat N, et al. **Neuropeptides** 1996 Feb;30(1):1-5

Nitric oxide-haemoglobin interaction: a new biochemical hypothesis for signal changes in fMRI. Di Salle F, et al. **Neuroreport** 1997 Jan 20;8(2):461-4

Ordered water molecules as key allosteric mediators in a cooperative dimeric hemoglobin. Royer WE Jr, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14526-31

Expression, purification, crystallization, and preliminary X-ray diffraction analysis of the homodimeric bacterial hemoglobin from Vitreoscilla stercoraria. Tarricone C, et al. **Proteins** 1997 Jan;27(1):154-6

Effects of the allosteric modification of hemoglobin on brain oxygen and infarct size in a feline model of stroke. Watson JC, et al. **Stroke** 1997 Aug;28(8):1624-30

Unusual structure of the oxygen-binding site in the dimeric bacterial hemoglobin from Vitreoscilla sp. Tarricone C, et al. **Structure** 1997 Apr 15;5(4):497-507

Biological fate of sulphur mustard: identification of valine and histidine adducts in haemoglobin from casualties of sulphur mustard poisoning. Black RM, et al. **Xenobiotica** 1997 May;27(5):499-512

[The alkaline Bohr effect: regulation of O2 binding with triliganded hemoglobin Hb(O2)3] Dzhagarov BM, et al. **Biofizika** 1996 May-Jun;41(3):606-12 (Eng. Abstr.) **(Rus)**

[Formation of hemichrome during reaction of hemoglobin with polar phosphatidylcholine derivatives] Andreiuk GM, et al. **Bioorg Khim** 1997 Apr;23(4):290-3 (Eng. Abstr.) **(Rus)**

[Comparative assessment of carboxymethylcellulose sorption properties with respect to hemin and globin] Nekliudov AD, et al. **Prikl Biokhim Mikrobiol** 1996 May-Jun; 32(3):290-3 (Eng. Abstr.) **(Rus)**

[Various physico-chemical properties of hemoglobins in representatives of different classes of vertebrates] Konoshenko SV, et al. **Ukr Biokhim Zh** 1996 Jul-Aug; 68(4):108-12 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

beta-Thalassemia and hemoglobin types in Argentina: determination of most frequent mutations. Soria NW, et al. **Am J Hematol** 1997 Feb;54(2):160-3

International Hemoglobin Information Center. Variants of the alpha chain. **Hemoglobin** 1996 Aug;20(3):215-312

Alphabetical hemoglobin variant list. **Hemoglobin** 1996 Aug; 20(3):313-35

International Hemoglobin Information Center variant list. Carver MF, et al. **Hemoglobin** 1996 Aug;20(3):213

DEFICIENCY

The hemoglobin-deficit mouse: analysis of phenotype and hematopoiesis in the transplant model. Bloom ML, et al. **Blood** 1997 Sep 1;90(5):2062-7

DIAGNOSTIC USE

Small vessels in the human brain: MR venography with deoxyhemoglobin as an intrinsic contrast agent. Reichenbach JR, et al. **Radiology** 1997 Jul;204(1):272-7

DRUG EFFECTS

Stimulation of newborn-like hemoglobin synthesis in adult rats by recombinant human erythropoietin and suppression by aspirin. Abdelrahman HG, et al. **Acta Haematol** 1996; 96(4):214–20

Stable acetaldehyde adducts: structural characterization of acetaldehyde adducts of human hemoglobin N-terminal beta-globin chain peptides. Braun KP, et al. **Alcohol Clin Exp Res** 1997 Feb;21(1):40–3

Beedi smoking and hematological variation. Sreerama KK, et al. **Arch Environ Health** 1997 Mar–Apr;52(2):150

Hemoglobin and DNA adduct formation in Fischer-344 rats exposed to 2,4- and 2,6-toluene diamine. Wilson PM, et al. **Arch Toxicol** 1996;70(10):591–8

Effect of organotin compounds on trout hemoglobins. Santroni AM, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):301–4

Hemoglobin adducts of benzo[a]pyrene diolepoxide in newspaper vendors: association with traffic exhaust. Pastorelli R, et al. **Carcinogenesis** 1996 Nov;17(11):2389–94

Monitoring of in vitro and in vivo exposure to sulfur mustard by GC/MS determination of the N-terminal valine adduct in hemoglobin after a modified Edman degradation. Fidder A, et al. **Chem Res Toxicol** 1996 Jun;9(4):788–92

Characterization of sulfur mustard induced structural modifications in human hemoglobin by liquid chromatography—tandem mass spectrometry. Noort D, et al. **Chem Res Toxicol** 1996 Jun;9(4):781–7

The effect of delta-gluconolactone, an oxidised analogue of glucose, on the nonenzymatic glycation of human and rat haemoglobin. Lindsay RM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):239–47

The effect of GM-CSF on reticulocytes, haemoglobin and haematocrit in patients receiving chemotherapy for solid tumours. Paterakis GS, et al. **Clin Lab Haematol** 1996 Mar; 18(1):7–12

Dobutamine increases cerebral blood flow velocity and jugular bulb hemoglobin saturation in septic patients. Berré J, et al. **Crit Care Med** 1997 Mar;25(3):392–8

Determination of dichlorobenzidine-hemoglobin adducts by GC/MS-NCI. Joppich-Kuhn R, et al. **Int Arch Occup Environ Health** 1997;69(4):240–6

Determination of hemoglobin adducts in workers exposed to 2,4, 6-trinitrotoluene. Sabbioni G, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):243–8

Hydroxyurea-induced denaturation of normal and sickle cell hemoglobins in vitro. Roa D, et al. **J Clin Lab Anal** 1997; 11(4):208–13

Impact of therapy with epoetin alfa on clinical outcomes in patients with nonmyeloid malignancies during cancer chemotherapy in community oncology practice. Procrit Study Group. Glaspy J, et al. **J Clin Oncol** 1997 Mar; 15(3):1218–34

Clinical and hematologic effects of hydroxyurea in children with sickle cell anemia. Jayabose S, et al. **J Pediatr** 1996 Oct;129(4):559–65

Reactive oxygen species do not cause arsine-induced hemoglobin damage. Hatlelid KM, et al. **J Toxicol Environ Health** 1997 Apr 11;50(5):463–74

Haematological and erythrocyte membrane changes induced by methacrylonitrile. Samikkannu T, et al. **Toxicol Lett** 1997 Jun 16;92(1):15–20

GENETICS

Contemporary implications of an African legacy: the lesser red cell mass in black West Indians [editorial; comment] Solomons N. **Am J Clin Nutr** 1997 Mar;65(3):887–8. Comment on: Am J Clin Nutr 1997 Mar;65(3):831–6.

Hb S/Hb Lepore with mild sickling symptoms: a hemoglobin variant with mostly delta-chain sequences ameliorates sickle-cell disease. Fairbanks VF, et al. **Am J Hematol** 1997 Feb;54(2):164–5

beta-Thalassemia and hemoglobin types in Argentina: determination of most frequent mutations. Soria NW, et al. **Am J Hematol** 1997 Feb;54(2):160–3

Associations of subtypes of hemoglobin with delta-aminolevulinic acid dehydratase genotype and dimercaptosuccinic acid-chelatable lead levels. Schwartz BS, et al. **Arch Environ Health** 1997 Mar–Apr;52(2):97–103

Hemoglobin and DNA adduct formation in Fischer-344 rats exposed to 2,4- and 2,6-toluene diamine. Wilson PM, et al. **Arch Toxicol** 1996;70(10):591–8

A hemoglobin-based blood substitute: transplanting a novel allosteric effect of crocodile Hb. Komiyama N, et al. **Biol Chem** 1996 Sep;377(9):543–8 (26 ref.)

Multiplex mutagenically separated PCR: diagnosis of beta-thalassemia and hemoglobin variants. Chang JG, et al. **Biotechniques** 1997 Mar;22(3):520–7

Infants in Sandwell are screened for haemoglobinopathy gene [letter; comment] Rao J, et al. **BMJ** 1996 Nov 30; 313(7069):1403. Comment on: BMJ 1996 Aug 17;313(7054):407–11.

Cloning and analysis of a cDNA encoding a two-domain hemoglobin chain from the water flea Daphnia magna. Tokishita S, et al. **Gene** 1997 Apr 11;189(1):73–8

Hemoglobin disorders in Macao. Ribeiro ML, et al. **Hemoglobin** 1997 May;21(3):271–9

Quantitative genetic analysis of arterial oxygen saturation in Tibetan highlanders. Beall CM, et al. **Hum Biol** 1997 Oct; 69(5):597–604

Detection of haemoglobin variants for the diagnosis of beta thalassaemia & other haemoglobinopathies using anion exchange high performance liquid chromatography. Rao VB, et al. **Indian J Med Res** 1996 Dec;104:365–73

Molecular mechanisms of hemoglobin switching. Jane SM, et al. **Int J Biochem Cell Biol** 1996 Nov;28(11):1197–209 (116 ref.)

Identification of five hemoglobins in B6C3F1 mice by mass spectrometry and sequence analysis. Palm L, et al. **Int J Biochem Cell Biol** 1996 Dec;28(12):1319–26

The hemoglobin polymorphism of the Sardinian wild dwarf horse and the oxygen binding properties of the four different horse hemoglobins. Pellegrini MG, et al. **Ital J Biochem** 1997 Mar;46(1):7–14

Scapharca inaequivalvis tetrameric hemoglobin A and B chains: cDNA sequencing and genomic organization. Piro MC, et al. **J Mol Evol** 1996 Dec;43(6):594–601

The amino acid sequences of two alpha chains of hemoglobins from Komodo dragon Varanus komodoensis and phylogenetic relationships of amniotes. Fushitani K, et al. **Mol Biol Evol** 1996 Sep;13(7):1039–43

Transgenic tobacco expressing Vitreoscilla hemoglobin exhibits enhanced growth and altered metabolite production [see comments] Holmberg N, et al. **Nat Biotechnol** 1997 Mar;15(3):244–7. Comment in: Nat Biotechnol 1997 Mar;15(3):222–3.

Cell-specific expression of the promoters of two nonlegume hemoglobin genes in a transgenic legume, Lotus corniculatus. Andersson CR, et al. **Plant Physiol** 1997 Jan; 113(1):45–57

Heme compounds in dinosaur trabecular bone. Schweitzer MH, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10; 94(12):6291–6

Four adult hemoglobin types in one mulatto family. de Araújo JT, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):201–5

Examples of chemical modification and recombinant DNA approaches with hemoglobin. Manning JM. **Transfus Clin Biol** 1996;3(2):109–11

IMMUNOLOGY

Erythrocruorin of Glossoscolex paulistus (Oligochaeta, Glossoscolecidae): modulation of oxygen affinity by specific antibodies. Cardillo F, et al. **Biochem Mol Biol Int** 1997 Mar;41(3):497–509

Hemoglobin-specific antibody in a multiply transfused patient with sickle cell disease. Noronha PA, et al. **Blood** 1997 Mar 15;89(6):2155–8

The recognition of haemoglobin by antibodies raised for the immunoassay of beta-amyloid. Cutler P, et al. **FEBS Lett** 1997 Jul 28;412(2):341–5

Flow-cytometric analysis of T-cell receptor expression in peripheral blood lymphocytes. Liebers V, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):133–9

TCR recognition of the Hb(64–76)/I-Ek determinant: single conservative amino acid changes in the complementarity-determining region 3 dramatically alter antigen fine specificity. Hsu BL, et al. **J Immunol** 1996 Sep 15;157(6):2291–8

ISOLATION & PURIFICATION

Separation of proteins of nearly the same size but having different isoelectric points by convective electrophoresis. Kontturi AK, et al. **Acta Chem Scand** 1996 Feb;50(2):102–6

The separation of hemoglobin-acetaldehyde adducts by cation exchange chromatography: a brief history. Itälä L, et al. **Alcohol Alcohol Suppl** 1994;2:509–13 (38 ref.)

Purification and spectroscopic characterization of a recombinant chloroplastic hemoglobin from the green unicellular alga Chlamydomonas eugametos. Couture M, et al. **Eur J Biochem** 1996 Dec 15;242(3):779–87

Selective precipitation of human hemoglobin by organic solvents and metal cations. Frantzen F, et al. **Hemoglobin** 1997 Mar;21(2):155–72

Isolation of haemorphin-related peptides from filter membranes collected in connection with haemofiltration of human subjects. Nyberg G, et al. **J Chromatogr A** 1996 Feb 2;723(1):43–9

Solid-phase extraction of phospholipids from hemoglobin solutions using Empore styrene-divinylbenzene disks. Horne T, et al. **J Chromatogr B Biomed Sci Appl** 1997 Aug 1;695(2):259–67

METABOLISM

The role of amino groups in hemoglobin oxygen binding. Anderson PJ, et al. **Adv Exp Med Biol** 1996;388:611–5

Modification of low density lipoproteins by erythrocytes and hemoglobin under hypoxic conditions. Balagopalakrishna C, et al. **Adv Exp Med Biol** 1997;411:337–45

Towards near-infrared imaging of the brain. Shinohara Y, et al. **Adv Exp Med Biol** 1997;413:85–9

Assessment of local brain activation. A simultaneous PET and near-infrared spectroscopy study. Villringer K, et al. **Adv Exp Med Biol** 1997;413:149–53

How to evaluate slow oxygenation changes to estimate absolute cerebral haemoglobin concentration by near infrared spectrophotometry in neonates. Wolf M, et al. **Adv Exp Med Biol** 1997;411:495–501

Influence of O2-Hb kinetics and the Fåhraeus effect on the arteriolar role in gas exchange. Ye GF, et al. **Adv Exp Med Biol** 1997;411:203–7

Methaemoglobinaemia. Griffin JP. **Adverse Drug React Toxicol Rev** 1997 Mar;16(1):45–63 (65 ref.)

The no-reflow phenomenon and dense fibrillary gliosis, cause of dark T2-weighted MR signal in stroke [letter; comment] Halls SB. **AJNR Am J Neuroradiol** 1996 Feb;17(2):394–5. Comment on: AJNR Am J Neuroradiol 1994 Aug;15(7):1387–93.

Effect of improved vitamin A status on response to iron supplementation in Pakistani infants [see comments] Northrop-Clewes CA, et al. **Am J Clin Nutr** 1996 Nov; 64(5):694–9. Comment in: Am J Clin Nutr 1996 Nov;64(5):789–90.

A discriminant function for preeclampsia: case-control study of minor hemoglobins, red cell enzymes, and clinical laboratory values. Braun KP, et al. **Am J Perinatol** 1997 May;14(5):297–302

Air blast-induced pulmonary oxidative stress: interplay among hemoglobin, antioxidants, and lipid peroxidation. Gorbunov NV, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L320–34

A prospective, randomized trial limiting perioperative red blood cell transfusions in vascular patients. Bush RL, et al. **Am J Surg** 1997 Aug;174(2):143–8

Cerebral hemoglobin and optical pathlength influence near-infrared spectroscopy measurement of cerebral oxygen saturation. Kurth CD, et al. **Anesth Analg** 1997 Jun;84(6):1297–305

Oxidative interaction of unpaired hemoglobin chains with lipids and proteins: a key for modified serum lipoproteins in thalassemia. Altamentova SM, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):39–46

Peroxynitrite-mediated nitration of peptides: characterization of the products by electrospray and combined gas chromatography-mass spectrometry. Yi D, et al. **Arch Biochem Biophys** 1997 Aug 15;344(2):253–9

The unique heme-heme interactions of the homodimeric Scapharca inaequivalvis hemoglobin as probed in the protein reconstituted with unnatural 2,4 heme derivatives. Zamparelli C, et al. **Arch Biochem Biophys** 1997 Mar 15; 339(2):275–82

A first evaluation of the natural high molecular weight polymeric Lumbricus terrestris hemoglobin as an oxygen carrier. Hirsch RE, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Sep; 25(5):429–44

The oxygen carrying capability of hemoglobin vesicles evaluated in rat exchange transfusion models. Kobayashi K, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul;25(4):357–66

Facilitated oxygen transport with modified and encapsulated hemoglobins across non-flowing solution membrane. Nishide H, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):335–46

Development of neo red cells (NRC) with the enzymatic reduction system of methemoglobin. Ogata Y, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul; 25(4):417–27

Physiological effect of polyethylene glycol conjugation on stroma-free bovine hemoglobin in the conscious dog after partial exchange transfusion. Conover CD, et al. **Artif Organs** 1997 May;21(5):369–78

Hemoglobin is utilized by Candida albicans in the hyphal form but not yeast form. Tanaka WT, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):350–3

Phenylhydrazine causes sulfhydryl oxidation and protein aggregation in hemoglobin-free human erythrocyte membranes. Hashmi AN, et al. **Biochem Mol Biol Int** 1996 Oct;40(3):543–50

Effect of thiol reagents on functional properties and heme oxidation in the hemoglobin of Geochelone carbonaria. Torsoni MA, et al. **Biochem Mol Biol Int** 1996 Oct; 40(2):355–64

High-affinity binding of melatonin to hemoglobin. Gilad E, et al. **Biochem Mol Med** 1995 Dec;56(2):115–20

Dynamics of cyanide binding to ferrous Scapharca inaequivalvis homodimeric hemoglobin. Boffi A, et al. **Biochemistry** 1997 Apr 15;36(15):4510–4

Role of hemopexin in protection of low-density lipoprotein against hemoglobin-induced oxidation. Miller YI, et al. **Biochemistry** 1996 Oct 8;35(40):13112–7

Oxidation of low-density lipoprotein by hemoglobin stems from a heme-initiated globin radical: antioxidant role of haptoglobin. Miller YI, et al. **Biochemistry** 1997 Oct 7; 36(40):12189–98

Lack of size and shape alteration of oxygenated and deoxygenated Lumbricus terrestris hemoglobin? Krebs A, et al. **Biochim Biophys Acta** 1996 Oct 17;1297(2):115–8

Encapsulation of hemoglobin in a bicontinuous cubic phase lipid. Lesile SB, et al. **Biochim Biophys Acta** 1996 Dec 4; 1285(2):246–54

Characterization of hydrogen peroxide removal activities in mouse hemolysates: catalase activity and hydrogen peroxide removal activity by hemoglobin. Masuoka N, et al. **Biochim Biophys Acta** 1997 Aug 22;1361(2):131–7

Methemoglobin formation in hemoglobin vesicles and reduction by encapsulated thiols. Takeoka S, et al. **Bioconjug Chem** 1997 Jul–Aug;8(4):539–44

A hemoglobin-based blood substitute: transplanting a novel allosteric effect of crocodile Hb. Komiyama N, et al. **Biol Chem** 1996 Sep;377(9):543–8 (26 ref.)

Haemoglobin is inversely related to plasma lactate and heart

rate in the newborn piglet. Haaland K, et al. **Biol Neonate** 1996;69(5):350–6

Effects of NaCl on the linkages between O2 binding and subunit assembly in human hemoglobin: titration of the quaternary enhancement effect. Doyle ML, et al. **Biophys Chem** 1997 Feb 28;64(1–3):271–87

Oxygen binding to fallow-deer (Dama dama) hemoglobin: stepwise enthalpies at pH 7.4. Johnson CR, et al. **Biophys Chem** 1996 Mar 7;59(1–2):107–17

Effect of lipid and propofol on oxidation of haemoglobin by reactive oxygen species. Stratford N, et al. **Br J Anaesth** 1997 Mar;78(3):320–2

Haemoglobin changes during anaesthesia [letter; comment] Wildsmith JA. **Br J Anaesth** 1997 Jan;78(1):111. Comment on: Br J Anaesth 1996 Aug;77(2):223–6.

Inadequate erythropoietin response to anaemia in HIV patients: relationship to serum levels of tumour necrosis factor-alpha, interleukin-6 and their soluble receptors. Kreuzer KA, et al. **Br J Haematol** 1997 Feb;96(2):235–9

A novel approach to investigating the erythroid lineage, using both receptor analysis and haemoglobin detection. McGuckin CP, et al. **Br J Haematol** 1996 Dec;95(3):457–60

The alternate iron transport pathway: mobilferrin and integrin in reticulocytes. Umbreit JN, et al. **Br J Haematol** 1997 Mar;96(3):521–9

Monitoring of flaps by measurement of intracapillary haemoglobin oxygenation with EMPHO II: experimental and clinical study. Wolff KD, et al. **Br J Oral Maxillofac Surg** 1996 Dec;34(6):524–9

Decrease in parietal cerebral hemoglobin oxygenation during performance of a verbal fluency task in patients with Alzheimer's disease monitored by means of near-infrared spectroscopy (NIRS)—correlation with simultaneous rCBF-PET measurements. Hock C, et al. **Brain Res** 1997 May 2;755(2):293–303

T-cell recognition of tumor-associated carbohydrates: the nature of the glycan moiety plays a decisive role in determining glycopeptide immunogenicity. Galli-Stampino L, et al. **Cancer Res** 1997 Aug 1;57(15):3214–22

Structural characterization by mass spectrometry of hemoglobin adducts formed after in vivo exposure to methyl bromide. Ferranti P, et al. **Carcinogenesis** 1996 Dec; 17(12):2661–71

Hemoglobin adducts of benzo[a]pyrene diolepoxide in newspaper vendors: association with traffic exhaust. Pastorelli R, et al. **Carcinogenesis** 1996 Nov;17(11):2389–94

Adduct formation on DNA and haemoglobin in mice intraperitoneally administered with styrene. Pauwels W, et al. **Carcinogenesis** 1996 Dec;17(12):2673–80

Monitoring of exposure to acrylonitrile by determination of N-(2-cyanoethyl)valine at the N-terminal position of haemoglobin. Tavares R, et al. **Carcinogenesis** 1996 Dec; 17(12):2655–60

Dosimetry of glycidyl ethers in mice by quantification of haemoglobin adducts. Pérez HL, et al. **Chem Biol Interact** 1997 Jan 24;103(1):1–16

Haemoglobin adducts of epoxybutanediol from exposure to 1,3-butadiene or butadiene epoxides. Pérez HL, et al. **Chem Biol Interact** 1997 Aug 1;105(3):181–98

Adducts to N-terminal valines in hemoglobin from butadiene metabolites. Rydberg P, et al. **Chem Biol Interact** 1996 Sep 6;101(3):193–205

Comparison of styrene-7,8-oxide adducts formed via reaction with cysteine, N-terminal valine and carboxylic acid residues in human, mouse and rat hemoglobin. Yeowell-O'Connell K, et al. **Chem Biol Interact** 1997 Aug 29;106(1):67–85

Disruption of hemoglobin oxygen transport does not impact oxygen-dependent physiological processes in developing embryos of zebra fish (Danio rerio). Pelster B, et al. **Circ Res** 1996 Aug;79(2):358–62

The effect of delta-gluconolactone, an oxidised analogue of glucose, on the nonenzymatic glycation of human and rat haemoglobin. Lindsay RM, et al. **Clin Chim Acta** 1997 Jul 25;263(2):239–47

Analysis of the affinity of each haptoglobin polymer for hemoglobin by two-dimensional affinity electrophoresis. Okazaki T, et al. **Clin Chim Acta** 1997 Feb 17;258(2):137–44

Functional characterisation of Eskimo dog hemoglobin: I. Interaction of Cl- and 2,3-DPG and its importance to oxygen unloading at low temperature. Bårdgard AJ, et al. **Comp Biochem Physiol A Physiol** 1997 Jul;117(3):367–73

Functional characterisation of Eskimo dog hemoglobin: II. The interplay of HCO(3)- and Cl-. Bårdgard AJ, et al. **Comp Biochem Physiol A Physiol** 1997 Jul;117(3):375–81

Oxygen binding and aggregation of hemoglobin from the common European frog, Rana temporaria. Bardgard A, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun;117(2):225–31

A comparative study on the functional properties of the wild European mouflon and domestic sheep hemoglobins. Corda M, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jul;117(3):417–20

Catalysis of the dealkylation/debenzylation of phenoxazone ethers by hemoglobin in the absence of peroxides: implications for investigations of embryonic biotransformation. Juchau MR, et al. **Drug Metab Dispos** 1996 Dec;24(12):1362–8

Monitoring human exposure to 2-hydroxyethylating carcinogens. Farmer PB, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:449–52

Model of the pH-dependence of the concentrations of complexes involving metabolites, haemoglobin and magnesium ions in the human erythrocyte. Mulquiney PJ, et al. **Eur J Biochem** 1997 Apr 1;245(1):71–83

Iron status in young Danes. Evaluation by serum ferritin and haemoglobin in a population survey of 634 individuals aged 14–23 yr. Milman N, et al. **Eur J Haematol** 1997 Mar; 58(3):160–6

Blood haemoglobin and the long-term incidence of acute myocardial infarction after transurethral resection of the prostate. Hahn RG, et al. **Eur Urol** 1997;31(2):199–203

Formation of haemozoin/beta-haematin under physiological conditions is not spontaneous. Pandey AV, et al. **FEBS Lett** 1996 Sep 16;393(2–3):189–93

Interaction between Actinobacillus actinomycetemcomitans lipopolysaccharides and human hemoglobin. Grenier D, et al. **FEMS Microbiol Lett** 1997 Jun 1;151(1):77–81

A new index for assessing arterial oxygen profile in patients with respiratory failure. Iluchev D. **Folia Med (Plovdiv)** 1996;38(1):39–43

Correlation of membrane lipid peroxidation with oxidation of hemoglobin variants: possibly related to the rates of hemin release. Chiu DT, et al. **Free Radic Biol Med** 1996; 21(1):89–95

Effect of aromatic nitroxides on hemolysis of human erythrocytes entrapped with isolated hemoglobin chains. Gabbianelli R, et al. **Free Radic Biol Med** 1997;23(2):278–84

Urate protects a blood-sucking insect against hemin-induced oxidative stress. Souza AV, et al. **Free Radic Biol Med** 1997;22(1–2):209–14

Relationship between dose in vivo of ethylene oxide and exposure to ethene studied in exposed workers. Granath F, et al. **Hum Exp Toxicol** 1996 Oct;15(10):826–33

Comparative studies on the interaction of protoporphyrin with hemoglobin and myoglobin. Sil S, et al. **Indian J Biochem Biophys** 1996 Aug;33(4):285–91

Identification and purification of a hemoglobin-binding outer membrane protein from Neisseria gonorrhoeae. Chen CJ, et al. **Infect Immun** 1996 Dec;64(12):5008–14

The effects of in vivo and in vitro non-enzymatic glycosylation and glycoxidation on physico-chemical properties of haemoglobin in control and diabetic patients. Watala C, et al. **Int J Biochem Cell Biol** 1996 Dec; 28(12):1393–403

A method for the estimation of the hemoglobin distribution in gastroscopic images. Englmeier KH, et al. **Int J Biomed Comput** 1996 Jun;41(3):153–65

The pharmacokinetics and pharmacodynamics of the oral iron chelator deferiprone (L1) in relation to hemoglobin levels. Fassos FF, et al. **Int J Clin Pharmacol Ther** 1996 Jul;34(7):288–92

Analysis of P50 and oxygen transport in patients after cardiac surgery. Oudemans-van Straaten HM, et al. **Intensive Care Med** 1996 Aug;22(8):781–9

Contribution of PO2, P50, and Hb to changes in arteriovenous O2 content during exercise in heart failure. Peregо GB, et al. **J Appl Physiol** 1996 Feb;80(2):623–31

Rate of uptake of CO by hemoglobin in pig erythrocytes as a function of PO2. Te Nijenhuis FC, et al. **J Appl Physiol** 1996 Oct;81(4):1544–9

Use of heme reporters for studies of cytochrome biosynthesis and heme transport. Goldman BS, et al. **J Bacteriol** 1996 Nov;178(21):6338–47

Heme compounds as iron sources for nonpathogenic Rhizobium bacteria. Noya F, et al. **J Bacteriol** 1997 May; 179(9):3076–8

Utilization of host iron sources by Corynebacterium diphtheriae: identification of a gene whose product is homologous to eukaryotic heme oxygenases and is required for acquisition of iron from heme and hemoglobin. Schmitt MP. **J Bacteriol** 1997 Feb;179(3):838–45

Neisseria meningitidis tonB, exbB, and exbD genes: Ton-dependent utilization of protein-bound iron in Neisseriae. Stojiljkovic I, et al. **J Bacteriol** 1997 Feb; 179(3):805–12

Proton-linked subunit kinetic heterogeneity for carbon monoxide binding to hemoglobin from Chelidonichthys kumu. Coletta M, et al. **J Biol Chem** 1996 Nov 22; 271(47):29859–64

Biosynthesis and maturation of the malaria aspartic hemoglobinases plasmepsins I and II. Francis SE, et al. **J Biol Chem** 1997 Jun 6;272(23):14961–8

Probing the hemoglobin central cavity by direct quantification of effector binding using fluorescence lifetime methods. Gottfried DS, et al. **J Biol Chem** 1997 Jan 17;272(3):1571–8

Quaternary structure regulates hemin dissociation from human hemoglobin. Hargrove MS, et al. **J Biol Chem** 1997 Jul 11;272(28):17385–9

Ligand linked assembly of Scapharca dimeric hemoglobin. Royer WE Jr, et al. **J Biol Chem** 1997 Feb 28; 272(9):5689–94

Stoichiometry of subunits and heme content of hemoglobin from the earthworm Lumbricus terrestris. Zhu H, et al. **J Biol Chem** 1996 Nov 22;271(47):29999–30006

Effect of hemoglobin on the oxygen uptake of patients with coronary artery disease. Roy BA, et al. **J Cardiopulm Rehabil** 1996 Jul-Aug;16(4):251–7

In vitro metabolism of LVV-hemorphin-7 in human plasma studied by reversed-phase high-performance liquid chromatography and micro-electrospray mass spectrometry. Sanderson K, et al. **J Chromatogr A** 1996 Aug 30;743(1):207–12

Monitoring for occupational exposure to 4,4'-methylenebis(2-chloroaniline) by gas chromatographic-mass spectrometric analysis of haemoglobin adducts, blood, plasma and urine. Vaughan GT, et al. **J Chromatogr B Biomed Appl** 1996 Apr 12; 678(2):197–204

Mobilferrin is an intermediate in iron transport between transferrin and hemoglobin in K562 cells. Conrad ME, et al. **J Clin Invest** 1996 Sep 15;98(6):1449–54

Magnetic resonance evidence of hypoxia in a homozygous alpha-knockout of a transgenic mouse model for sickle cell disease. Fabry ME, et al. **J Clin Invest** 1996 Dec 1; 98(11):2450–5

Oxygen equilibria of cathodic eel hemoglobin analysed in terms of the MWC model and Adair's successive oxygenation theory. Feuerlein RJ, et al. **J Comp Physiol [B]** 1996;165(8):597–606

Oxygen and carbon dioxide transport in vertebrate erythrocytes: an evolutionary change in the role of membrane transport. Nikinmaa M. **J Exp Biol** 1997 Jan;200 (Pt 2):369–80 (118 ref.)

Structural basis for T cell recognition of altered peptide ligands: a single T cell receptor can productively recognize a large continuum of related ligands. Kersh GJ, et al. **J Exp Med** 1996 Oct 1;184(4):1259–68

Segmentation analysis in functional MRI: activation sensitivity and gray-matter specificity of RARE and FLASH. Hutchinson M, et al. **J Magn Reson Imaging** 1997 Mar-Apr;7(2):361–4

Modelling of gas transport function of erythrocytes in haemoglobin sorption immobilization. Kuznetsova NP, et al. **J Microencapsul** 1997 Jul-Aug;14(4):437–44

The globin fragment LVV-hemorphin-7 is an endogenous ligand for the AT4 receptor in the brain. Moeller I, et al. **J Neurochem** 1997 Jun;68(6):2530–7

Nitric oxide detection with intracerebral microdialysis: important considerations in the application of the hemoglobin-trapping technique. Zhang Y, et al. **J Neurosci Methods** 1996 Oct;68(2):165–73

Copper as a supplement to iron for hemoglobin building in the rat (Hart et al., 1928). Klevay LM. **J Nutr** 1997 May; 127(5 Suppl):1034S–1036S

In-vitro interaction of artemisinin with intact human erythrocytes, erythrocyte ghosts, haemoglobin and carbonic anhydrase. Bakhshi HB, et al. **J Pharm Pharmacol** 1997 Feb;49(2):223–6

Trifluoperazine is more effective than chlorpromazine in releasing oxygen from haemoglobin and myoglobin. Bhattacharyya J, et al. **J Pharm Pharmacol** 1996 Sep; 48(9):965–7

Oxygen transport and utilization during feeding in the young lamb. Grant DA, et al. **J Physiol (Lond)** 1997 Aug 15;503 (Pt 1):195–202

The comparative role of haemoglobinaemia and hypoxia in the development of canine babesial nephropathy. Lobetti RG, et al. **J S Afr Vet Assoc** 1996 Dec;67(4):188–98

Recombinant human erythropoietin trial in thalassemia intermedia. Nişli G, et al. **J Trop Pediatr** 1996 Dec; 42(6):330–4

Alteration of intraerythrocyte proteolytic degradation of hemoglobin during Hodgkin's disease. Pivnik AV, et al. **Leuk Lymphoma** 1996 Jul;22(3–4):345–9

Proteolytic degradation of host hemoglobin by schistosomes. Brindley PJ, et al. **Mol Biochem Parasitol** 1997 Oct; 89(1):1–9 (57 ref.)

Characterization of native falcipain, an enzyme involved in Plasmodium falciparum hemoglobin degradation. Francis SE, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):189–200

Identification of hemoglobin degradation products in Plasmodium falciparum. Kamchonwongpaisan S, et al. **Mol Biochem Parasitol** 1997 Jun;86(2):179–86

Generation of hemoglobin peptides in the acidic digestive vacuole of Plasmodium falciparum implicates peptide transport in amino acid production. Kolakovich KA, et al. **Mol Biochem Parasitol** 1997 Aug;87(2):123–35

Hemoglobin catabolism and iron utilization by malaria parasites. Rosenthal PJ, et al. **Mol Biochem Parasitol** 1996 Dec 20;83(2):131–9 (77 ref.)

Cysteine protease inhibitors block schistosome hemoglobin degradation in vitro and decrease worm burden and egg production in vivo. Wasilewski MM, et al. **Mol Biochem Parasitol** 1996 Oct 30;81(2):179–89

Comment on the MicroReview by B. Craig Lee (Quelling the red menace: haem capture by bacteria) [letter; comment] Jacques M. **Mol Microbiol** 1996 Apr;20(1):238 . Comment on: Mol Microbiol 1995 Nov;18(3):383–90.

Molecular characterization of hpuAB, the haemoglobin-haptoglobin-utilization operon of Neisseria meningitidis. Lewis LA, et al. **Mol Microbiol** 1997 Feb; 23(4):737–49

Receptor binding properties of a hemorphin analogue in rat brain membrane preparations. Szikra J, et al. **Neurobiology (Bp)** 1996;4(3):279–80

Interpretation of BOLD MRI signals in rat brain using simultaneously measured near-infrared spectrophotometric information. Kida I, et al. **NMR Biomed** 1996 Dec; 9(8):333–8

The noninvasive measurement of absolute cerebral deoxyhemoglobin concentration and mean optical path length in the neonatal brain by second derivative near infrared spectroscopy. Cooper CE, et al. **Pediatr Res** 1996 Jan;39(1):32–8

Erythropoietin course in newborns with Rh hemolytic disease transfused and not transfused in utero. Dallacasa P, et al. **Pediatr Res** 1996 Aug;40(2):357–60

Delayed vasodilation and altered oxygenation after cerebral ischemia in fetal sheep. Marks KA, et al. **Pediatr Res** 1996 Jan;39(1):48–54

[14C]cyanate labeling of sheep red cells: covalent binding to hemoglobin continues in vivo for a day. Mock DM, et al. **Pediatr Res** 1997 Mar;41(3):424–9

Cerebral oxygenation measured by near infrared spectroscopy during cardiopulmonary bypass and deep hypothermic circulatory arrest in piglets. Nomura F, et al. **Pediatr Res** 1996 Dec;40(6):790–6

Hemorphin peptides are released from hemoglobin by cathepsin D. radioimmunoassay against the C-part of V-V-hemorphin-7: an alternative assay for the cathepsin D activity. Garreau I, et al. **Peptides** 1997;18(2):293–300

Measurements of scattering and absorption changes in muscle and brain. Gratton E, et al.
Philos Trans R Soc Lond B Biol Sci 1997 Jun 29; 352(1354):727–35 (50 ref.)

Cerebral haemoglobin oxygenation during sustained visual stimulation—a near-infrared spectroscopy study. Heekeren HR, et al. **Philos Trans R Soc Lond B Biol Sci** 1997 Jun 29;352(1354):743–50

The influence of demographic factors on phase-modulated spectroscopy in adults. Levy WJ.
Philos Trans R Soc Lond B Biol Sci 1997 Jun 29; 352(1354):751–3

Localized near-infrared spectroscopy and functional optical imaging of brain activity. Tamura M, et al.
Philos Trans R Soc Lond B Biol Sci 1997 Jun 29; 352(1354):737–42

Half-life of nitric oxide in aqueous solutions with and without haemoglobin. Hakim TS, et al. **Physiol Meas** 1996 Nov; 17(4):267–77

Effect of selected Egyptian cooking methods on faba bean nutritive value and dietary protein utilization 2: ability of faba bean products to support hemoglobin response in rats. Bakr AA, et al. **Plant Foods Hum Nutr** 1997;50(1):81–91

Allosteric intermediates indicate R2 is the liganded hemoglobin end state. Schumacher MA, et al.
Proc Natl Acad Sci U S A 1997 Jul 22;94(15):7841–4

Structure and inhibition of plasmepsin II, a hemoglobin-degrading enzyme from Plasmodium falciparum. Silva AM, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10034–9

Allosteric effectors do not alter the oxygen affinity of hemoglobin crystals. Mozzarelli A, et al. **Protein Sci** 1997 Feb;6(2):484–9

Oxygen binding by single crystals of hemoglobin: the problem of cooperativity and inequivalence of alpha and beta subunits. Bettati S, et al. **Proteins** 1996 Aug; 25(4):425–37

Effect of haemoglobin oxygenation on Bohr proton release and CO2 excretion in the rainbow trout. Brauner CJ, et al. **Respir Physiol** 1996 Oct;106(1):65–70

Correlation between hemoglobin oxygen affinity and activities of lipid peroxidation during hyperthermia. Zinchuk V. **Rocz Akad Med Bialymst** 1995;40(2):390–5

Simultaneous measurement of total hemoglobin and its derivatives in blood using CO-oximeters: analytical principles; their application in selecting analytical wavelengths and reference methods; a comparison of the results of the choices made. Brunelle JA, et al.
Scand J Clin Lab Invest Suppl 1996;224:47–69 (34 ref.)

Enhanced efficacy of autologous blood donation with epoetin alfa. Nydegger U. **Semin Hematol** 1997 Apr;33(2 Suppl 2):39–40; discussion 41–2

Effects of the allosteric modification of hemoglobin on brain oxygen and infarct size in a feline model of stroke. Watson JC, et al. **Stroke** 1997 Aug;28(8):1624–30

Relationship of hemoglobin to occupational exposure to motor vehicle exhaust. Potula V, et al.
Toxicol Ind Health 1996 Sep-Oct;12(5):629–37

A physiological toxicokinetic model for 1,3-butadiene in rodents and man: blood concentrations of 1,3-butadiene, its metabolically formed epoxides, and of haemoglobin adducts--relevance of glutathione depletion. Csanády GA, et al. **Toxicology** 1996 Oct 28;113(1–3):300–5

A proposed biochemical mechanism involving hemoglobin for blast overpressure-induced injury. Elsayed NM, et al. **Toxicology** 1997 Jul 25;121(1):81–90

Biological monitoring of butadiene exposure by measurement of haemoglobin adducts. Richardson KA, et al.
Toxicology 1996 Oct 28;113(1–3):112–8

Hemoglobin-nitric oxide interaction and its implications. Motterlini R, et al. **Transfus Med Rev** 1996 Apr;10(2):77–84 (48 ref.)

Early changes in hemoglobin and hematocrit levels after packed red cell transfusion in patients with acute anemia. Elizalde JI, et al. **Transfusion** 1997 Jun;37(6):573–6

Intraoperative bleeding: a mathematical model for minimizing hemoglobin loss. Smetannikov Y, et al. **Transfusion** 1996 Sep;36(9):832–5

The in vitro uptake and incorporation of hemoglobin by adult Haemonchus-contortus. Fetterer RH, et al.
Vet Parasitol 1997 Apr;69(1–2):77–87

Micronutrients: effects of variation in [Hb] and iron deficiency on physical performance. Ekblom B.
World Rev Nutr Diet 1997;82:122–30 (64 ref.)

Biological fate of sulphur mustard: in vitro alkylation of human haemoglobin by sulphur mustard. Black RM, et al.
Xenobiotica 1997 Jan;27(1):11–32

[Hemoglobin derivatives in blood of cattle during during winter housing. Effect of age as well as developmental and functional conditions] Steinhardt M, et al.
DTW Dtsch Tierarztl Wochenschr 1997 Mar;104(3):99–103 (Eng. Abstr.) **(Ger)**

[Experimental investigations on the resorption of essential materials in rat kidneys] Huth F, et al. **Frankf Z Pathol** 1966;75(4):275–96 **(Ger)**

[Cerebral blood volume, cerebral hemoglobin and cytochrome AA3 during hypotension induced by prostaglandin E1 or epidural anesthesia under general anesthesia] Shinohara M, et al. **Masui** 1996 Aug;45(8):961–6 (Eng. Abstr.) **(Jpn)**

[Effect of hypochlorite and hydrogen peroxide on the ability of hemoglobin to stimulate lipid peroxidation of low density lipoproteins] Osipov AN, et al. **Biofizika** 1997 Mar-Apr; 42(2):400–7 (Eng. Abstr.) **(Rus)**

[Increase in oxygen-transporting efficiency of hemoglobin when chemically modified] Kuznetsova NP, et al.
Biokhimiia 1996 Apr;61(4):680–9 (Eng. Abstr.) **(Rus)**

[Correlation between electrophoretic mobility of human blood erythrocytes and hemoglobin level in health and in renal pathology] Matiushichev VB, et al.
Fiziol Cheloveka 1997 Jul-Aug;23(4):110–2 **(Rus)**

[Interaction of proteins with platinum and palladium compounds with differing biological activities] Zhmareva EN, et al. **Ukr Biokhim Zh** 1996 May-Jun;68(3):74–9 (Eng. Abstr.) **(Rus)**

[The indices of intraerythrocyte metabolism and hemoglobin oxygen affinity in volleyball players under intensive physical loads] Popichev MI, et al.
Vopr Kurortol Fizioter Lech Fiz Kult 1997 Mar-Apr; (2):21–2 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Interactions of ultrapure bovine hemoglobin with renal epithelial cells in vivo and in vitro. Somers M, et al.
Am J Physiol 1997 Jul;273(1 Pt 2):F38–52

Introduction of negative charges to a crosslinked hemoglobin: lack of effect on plasma half time. Thomas M, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May;25(3):309–14

Sustained endothelial dependent dilation in pial arterioles after crosslinked hemoglobin transfusion. Ulatowski JA, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar;25(1–2):115–20

Use of designed peptide linkers and recombinant hemoglobin mutants for drug delivery: in vitro release of an angiotensin II analog and kinetic modeling of delivery. Trimble SP, et al. **Bioconjug Chem** 1997 May-Jun;8(3):416–23

Phase I study of the safety and pharmacologic effects of diaspirin cross-linked hemoglobin solution. Przybelski RJ, et al. **Crit Care Med** 1996 Dec;24(12):1993–2000

PHARMACOLOGY

Hemodynamic and renal effects of cross-linked hemoglobin infusion. Cases A, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R793–9

Mechanism of hemoglobin-induced protection against endotoxemia in rats: a ferritin-independent pathway. Otterbein L, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L268–75

The effects of cross-linked hemoglobin on regional vascular conductance in dogs. Dietz NM, et al. **Anesth Analg** 1997 Aug;85(2):265–73

Dose response effect of diaspirin crosslinked hemoglobin (DCLHb) on systemic hemodynamics and regional blood circulation in rats. Barve A, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):75–84

Effect of subarachnoid administration of alpha-alpha diaspirin crosslinked hemoglobin on cerebral blood flow in rats. Cole DJ, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):95–104

Alpha-alpha diaspirin crosslinked hemoglobin, nitric oxide, and cerebral ischemic injury in rats. Cole DJ, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):141–52

Transitional vacuole formation following a bolus infusion of PEG-hemoglobin in the rat. Conover C, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 Nov; 24(6):599–611

Reduction of hydroxyl radical generation in a rat hindlimb model of ischemia-reperfusion injury using crosslinked hemoglobin-superoxide dismutase-catalase. D'Agnillo F, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar;25(1–2):163–80

Effects of partial blood replacement with pyridoxalated hemoglobin polyoxyethylene conjugate solution on transient cerebral ischemia in gerbil. Hanzawa K, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):105–14

Diaspirin cross-linked hemoglobin does not alter isolated human umbilical artery or vein tone. Jing M, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 Nov; 24(6):621–8

Ferrrous hemoglobin scavenging of endothelium derived nitric oxide is a principal mechanism for hemoglobin mediated vasoactivities in isolated rat thoracic aorta. Kim HW, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar;25(1–2):121–33

Decreased whole blood factor IX activity following hemodilution with hemoglobin A-zero in-vitro. Kim MS, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 May;25(3):289–95

Resuscitation with diaspirin crosslinked hemoglobin increases cerebral and renal blood perfusion in hemorrhaged rats. Kumar A, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):85–94

Hypertonic acetate-alpha alpha hemoglobin for small volume resuscitation of hemorrhagic shock. Poli de Figueiredo LF, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar;25(1–2):61–73

Crosslinked hemoglobin-superoxide dismutase-catalase scavenges free radicals in a rat model of intestinal ischemia-reperfusion injury. Razack S, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):181–92

Effect of diaspirin crosslinked hemoglobin on systemic and regional blood circulation in pregnant rats. Sen AP, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 May; 25(3):275–88

Modified hemoglobin solution, with desired pharmacological properties, does not activate nuclear transcription factor NF-kappa B in human vascular endothelial cells. Simoni J, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan-Mar;25(1–2):193–210

Expression of adhesion molecules and von Willebrand factor in human coronary artery endothelial cells incubated with differently modified hemoglobin solutions. Simoni J, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):211–25

Complement activation and thromboxane secretion by liposome-encapsulated hemoglobin in rats in vivo: inhibition by soluble complement receptor type 1. Szebeni J, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jul;25(4):347–55

Endothelin-1 is not involved in hemoglobin associated vasoactivities. Tai J, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jan-Mar; 25(1–2):135–40

Enhancement of erythrocyte sedimentation rate by polymerized hemoglobin. Tsai SP, et al.
Artif Cells Blood Substit Immobil Biotechnol 1996 Sep; 24(5):513–23

Effect of liposome encapsulated hemoglobin "neo red cells" on severe hemorrhagic shock. Usuba A, et al.
Artif Cells Blood Substit Immobil Biotechnol 1997 Jul; 25(4):379–92

Complement activation in human serum by liposome-encapsulated hemoglobin: the role of natural anti-phospholipid antibodies. Szebeni J, et al.
Biochim Biophys Acta 1996 Dec 4;1285(2):127–30

Electrophysiological actions of hemoglobin on rat hippocampal CA1 pyramidal neurons. Yip S, et al.
Brain Res 1996 Mar 25;713(1–2):134–42

Mechanism of the contractile effect of diaspirin-cross-linked hemoglobin in rat isolated aorta strip denuded of endothelium as revealed using an oil-immersion procedure. Rioux F, et al. **Can J Physiol Pharmacol** 1996 Oct; 74(10):1171–9

In vitro effects of a novel hemoglobin-based oxygen carrier on routine chemistry, therapeutic drug, coagulation, hematology, and blood bank assays. Callas DD, et al.
Clin Chem 1997 Sep;43(9):1744–8

Oxalated pyridoxalated hemoglobin polyoxyethylene conjugate normalizes the hyperdynamic circulation in septic sheep. Bone HG, et al. **Crit Care Med** 1997 Jun; 25(6):1010–8

Phase I study of the safety and pharmacologic effects of diaspirin cross-linked hemoglobin solution. Przybelski RJ, et al. **Crit Care Med** 1996 Dec;24(12):1993–2000

Liposome-encapsulated hemoglobin modulates lipopolysaccharide-induced tumor necrosis factor-alpha production in mice. Rudolph AS, et al. **Crit Care Med** 1997 Mar;25(3):460–8

Kinetics of cytokine gene expression in macrophage and endothelial cell lines following liposome encapsulated haemoglobin (LEH) treatment in vitro. Zhu XL, et al.
Cytokine 1996 Jul;8(7):541–7

Crosslinked hemoglobin inhibits endothelium-dependent relaxations in isolated canine arteries. Katušić ZS, et al.
Gen Pharmacol 1996 Mar;27(2):239–44

PEG-hemoglobin: effects on tumor oxygenation and response to chemotherapy. Teicher BA, et al. **In Vivo** 1997 Jul-Aug;11(4):301–11

Effect of hemoglobin and immunization status on energy metabolism of weanling pigs. Gentry JL, et al.
J Anim Sci 1997 Apr;75(4):1032–40

A mechanism of nitric oxide-induced surfactant dysfunction. Hallman M, et al. **J Appl Physiol** 1996 Jun;80(6):2035–43

Differences between normal and autoimmune T cell responses to autologous erythrocytes and haemoglobin: impairment of haptoglobin-mediated inhibition in NZB spleen cells. Calkins CE, et al. **J Autoimmun** 1996 Aug; 9(4):453–62

Inhibition of endothelium-dependent relaxation by hemoglobin in rabbit aortic strips: comparison between acellular hemoglobin derivatives and cellular hemoglobins.

Nakai K, et al. **J Cardiovasc Pharmacol** 1996 Jul; 28(1):115–23

Selective activation of the calcium signaling pathway by altered peptide ligands. Sloan-Lancaster J, et al. **J Exp Med** 1996 Oct 1;184(4):1525–30

Actions of diaspirin cross-linked hemoglobin on isolated rat and dog vessels. Hart JL, et al. **J Lab Clin Med** 1997 Mar; 129(3):356–63

Hemoglobin-induced contraction of pig pulmonary veins. Muldoon SM, et al. **J Lab Clin Med** 1996 Dec; 128(6):579–84

Hypervolemic-hemodilution during cerebral ischemia in rats: effect of diaspirin cross-linked hemoglobin (DCLHb) on neurologic outcome and infarct volume. Cole DJ, et al. **J Neurosurg Anesthesiol** 1997 Jan;9(1):44–50

Diaspirin cross-linked hemoglobin resuscitation improves cerebral perfusion after head injury and shock. Chappell JE, et al. **J Trauma** 1996 Nov;41(5):781–8

The influence of polyethylene glycol conjugation on bovine hemoglobin's intrinsic effect on the gastrointestinal system of the rat. Conover CD, et al. **Life Sci** 1996;59(22):1861–9

Effect of liposome-encapsulated hemoglobin on triglyceride, total cholesterol, low-density lipoprotein, and high-density lipoprotein cholesterol measurements. Abdullah F, et al. **Lipids** 1997 Apr;32(4):377–81

Minimally modified low density lipoproteins induce aortic smooth muscle cell proliferation via the activation of mitogen activated protein kinase. Balagopalakrishna C, et al. **Mol Cell Biochem** 1997 May;170(1–2):85–9

Inverse relationships between haemoglobin and ristocetin-induced platelet aggregation in haemodialysis patients under erythropoietin therapy. Borawski J, et al. **Nephrol Dial Transplant** 1996 Dec;11(12):2444–8

Investigation of inhibition angiotensin-converting enzyme (ACE) activity and opioid activity of two hemorphins, LVV-hemorphin-5 and VV-hemorphin-5, isolated from a defined peptic hydrolysate of bovine hemoglobin. Zhao Q, et al. **Neuropeptides** 1997 Apr;31(2):147–53

Bovine hemoglobin increases skeletal muscle oxygenation during 95% artificial arterial stenosis. Horn EP, et al. **Surgery** 1997 Apr;121(4):411–8

Hemoglobin enhances the binding of bacterial endotoxin to human endothelial cells. Roth RI. **Thromb Haemost** 1996 Aug;76(2):258–62

The effects of physical and chemical agents on the secretion and stability of a Fusobacterium necrophorum hemolysin. Amoako KK, et al. **Vet Microbiol** 1996 Jul;51(1–2):115–24

[Acute effects of complete blood exchange with ultra-purified hemoglobin solution or hydroxyethyl starch on liver and kidney in the animal model] Standl T, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):354–61 (Eng. Abstr.) **(Ger)**

PHYSIOLOGY

Life without hemoglobin [editorial] Zander R, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):488–90 **(Eng, Ger)**

Oxygenation properties of hemoglobin from the turtle Geochelone carbonaria. Torsoni MA, et al. **Braz J Med Biol Res** 1995 Nov-Dec;28(11–12):1129–31

Dependency of MCV and haemoglobin concentration on plasma vitamin B12 levels in relation to sex and age. vant Sant P, et al. **Clin Lab Haematol** 1997 Mar;19(1):27–31

Physiologic responses to exchange transfusion with hemoglobin vesicles as an artificial oxygen carrier in anesthetized rats: changes in mean arterial pressure and renal cortical tissue oxygen tension. Izumi Y, et al. **Crit Care Med** 1996 Nov;24(11):1869–73

Hemoglobin damages the cultured endothelial cell monolayer from bovine cerebral arteries. Machi T, et al. **Fukuoka Igaku Zasshi** 1996 Sep;87(9):189–96

After-effects of a high altitude expedition on blood. Böning D, et al. **Int J Sports Med** 1997 Apr;18(3):179–85

Low-affinity hemoglobin increases tissue PO2 and decreases arteriolar diameter and flow in the rat cremaster muscle. Kunert MP, et al. **Microvasc Res** 1996 Jul;52(1):58–68

Insensitivity of VO2max to hemoglobin-P50 as sea level and altitude. Wagner PD. **Respir Physiol** 1997 Mar; 107(3):205–12

Blood flow regulation by S-nitrosohemoglobin in the physiological oxygen gradient. Stamler JS, et al. **Science** 1997 Jun 27;276(5321):2034–7

[The higher structure and physiological significance of hemoglobin] Harano T, et al. **Nippon Rinsho** 1996 Sep; 54(9):2305–10 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Human hemoglobin structure and respiratory transport] Imamura T. **Nippon Rinsho** 1996 Sep;54(9):2320–5 (6 ref.) (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

Photochemical reactions of nitrosyl hemoglobin during exposure to low-power laser irradiation. Borisenko GG, et al. **Biochemistry (Mosc)** 1997 Jun;62(6):661–6

[Changes in the physico-chemical and functional properties of human hemoglobin after laser irradiation in vitro] Irzhak LI, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):15–7 **(Rus)**

THERAPEUTIC USE

Effect of blood substitute, recombinant hemoglobin, on in vivo hematopoietic recovery from AZT toxicity. Moqattash S, et al. **Acta Haematol** 1997;98(2):76–82

Role of ET and NO in resuscitative effect of diaspirin cross-linked hemoglobin after hemorrhage in rat. Gulati A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H827–36

Effects of a hemoglobin-based oxygen carrier (HBOC-201) on hemodynamics and oxygen transport in patients undergoing preoperative hemodilution for elective abdominal aortic surgery. Kasper SM, et al. **Anesth Analg** 1996 Nov;83(5):921–7

Systemic responses to SFHS-infusion in hemorrhaged dogs. Amend J, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan; 24(1):19–34

Resuscitation with increasing doses of diaspirin crosslinked hemoglobin in swine. Marchand G, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):469–87

Diaspirin crosslinked hemoglobin (DCLHb): more effective than lactated Ringer's solution in restoring central venous oxygen saturation after hemorrhagic shock in rats. Powell CC, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 May;24(3):197–200

Treatment of massive hemorrhage with liposome encapsulated human hemoglobin (NRC) and hydroxyethyl starch (HES) in beagles. Takaori M, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):643–53

Bovine haemoglobin is more potent than autologous red blood cells in restoring muscular tissue oxygenation after profound isovolaemic haemodilution in dogs [see comments] Standl T, et al. **Can J Anaesth** 1996 Jul; 43(7):714–23. Comment in: Can J Anaesth 1996 Jul;43(7):647–52.

Isovolemic hemodilution with purified and polymerized bovine hemoglobin in a rabbit model of focal cerebral ischemia. Chu D, et al. **Chin J Physiol** 1997 Jun 30; 40(2):63–9

Resuscitation of pulmonary contusion: effects of a red cell substitute. Cohn SM, et al. **Crit Care Med** 1997 Mar; 25(3):484–91

Pyridoxalated hemoglobin polyoxyethylene conjugate does not restore hypoxic pulmonary vasoconstriction in ovine sepsis. Fischer SR, et al. **Crit Care Med** 1997 Sep; 25(9):1551–9

Nitric oxide overproduction in septic shock--methemoglobin concentrations and blockade with diaspirin cross-linked hemoglobin [editorial; comment] Kilbourn RG. **Crit Care Med** 1997 Sep;25(9):1446–7. Comment on: Crit Care Med 1997 Sep;25(9):1588–93.

Dose-response relationship between aortic infusions of polymerized bovine hemoglobin and return of circulation in a canine model of ventricular fibrillation and advanced cardiac life support. Paradis NA. **Crit Care Med** 1997 Mar; 25(3):476–83

Initial evaluation of diaspirin cross-linked hemoglobin (DCLHb) as a vasopressor in critically ill patients. Reah G, et al. **Crit Care Med** 1997 Sep;25(9):1480–8

Polymerized hemoglobin restores cardiovascular and kidney function in endotoxin-induced shock in the rat. Heneka MT, et al. **J Clin Invest** 1997 Jan 1;99(1):47–54

Effect of hemodilution with diaspirin cross-linked hemoglobin on intracranial pressure, cerebral perfusion pressure, and fluid requirements after head injury and shock. Chappell JE, et al. **J Neurosurg** 1997 Jan;86(1):131–8

Resuscitation from hemorrhagic shock with diaspirin cross-linked hemoglobin, blood, or hetastarch. DeAngeles DA, et al. **J Trauma** 1997 Mar;42(3):406–12; discussion 412–4

Clinical utility of human polymerized hemoglobin as a blood substitute after acute trauma and urgent surgery. Gould SA, et al. **J Trauma** 1997 Aug;43(2):325–31; discussion 331–2

Effect of small-volume resuscitation on intracranial pressure and related cerebral variables. Shackford SR. **J Trauma** 1997 May;42(5 Suppl):S48–53

Use of recombinant hemoglobin solution in reversing lethal hemorrhagic hypovolemic oxygen debt shock. Siegel JH, et al. **J Trauma** 1997 Feb;42(2):199–212

Cellular responses to surgical trauma, hemorrhage, and resuscitation with diaspirin cross-linked hemoglobin in rats. Xu L, et al. **J Trauma** 1997 Jan;42(1):32–41

Combined neuroprotection and reperfusion therapy for stroke. Effect of lubeluzole and diaspirin cross-linked hemoglobin in experimental focal ischemia. Aronowski J, et al. **Stroke** 1996 Sep;27(9):1571–6; discussion 1576–7

Clinical development of human polymerized hemoglobin as a blood substitute. Gould SA, et al. **World J Surg** 1996 Nov-Dec;20(9):1200–7 (36 ref.)

TOXICITY

Interactions of ultrapure bovine hemoglobin with renal epithelial cells in vivo and in vitro. Somers M, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):F38–52

The cytotoxic activities of human hemoglobin and diaspirin crosslinked hemoglobin. Hsia N, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Sep; 24(5):533–51

The physiological and histopathological response of dogs to exchange transfusion with polyethylene glycol-modified bovine hemoglobin (PEG-Hb). Shum KL, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):655–83

Estrogens attenuate neuronal injury due to hemoglobin, chemical hypoxia, and excitatory amino acids in murine cortical cultures. Regan RF, et al. **Brain Res** 1997 Aug 1;764(1–2):133–40

Hemoglobin exacerbates the ocular inflammatory response to endotoxin. McGahan MC, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Oct;234(10):643–7

Effects of polymerization on the hypertensive action of diaspirin cross-linked hemoglobin in rats [see comments] Abassi Z, et al. **J Lab Clin Med** 1997 Jun;129(6):603–10. Comment in: J Lab Clin Med 1997 Jun;129(6):580–3.

Hypotensive effects of stroma-free haemoglobin solutions attributable to adenine nucleotides. MacDonald SL, et al. **Transfus Med** 1991 Mar;1(1):17–23

ULTRASTRUCTURE

Natural and artificial carbohydrate-glued protein aggregates. Matsubara K, et al. **Adv Biophys** 1997;34:253–62 (24 ref.)

Identification of the subunit loci in the extracellular multisubunit hemoglobin from annelid Perinereis aibuhitensis. Yamaki M, et al. **Arch Biochem Biophys** 1996 Nov 1;335(1):23–31

Three-dimensional reconstruction by cryoelectron microscopy of the giant hemoglobin of the polychaete worm Alvinella pompejana. de Haas F, et al. **J Mol Biol** 1996 Nov 22;264(1):111–20

Three-dimensional reconstruction of the hexagonal bilayer hemoglobin of the hydrothermal vent tube worm Riftia pachyptila by cryoelectron microscopy. de Haas F, et al. **Proteins** 1996 Nov;26(3):241–56

[The higher structure and physiological significance of hemoglobin] Harano T, et al. **Nippon Rinsho** 1996 Sep; 54(9):2305–10 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Human hemoglobin structure and respiratory transport] Imamura T. **Nippon Rinsho** 1996 Sep;54(9):2320–5 (6 ref.) (Eng. Abstr.) **(Jpn)**

URINE see HEMOGLOBINURIA

HEMOGLOBINS, ABNORMAL

Thromboembolic complication of splenectomy in unstable hemoglobin disorders: Hb Olmsted, Hb Koln [letter; comment] Phyliky RL, et al. **Am J Hematol** 1997 May; 55(1):53. Comment on: Am J Hematol 1996 Feb;51(2):133–6.

The unusual pathobiology of hemoglobin constant spring red blood cells. Schrier SL, et al. **Blood** 1997 Mar 1; 89(5):1762–9

Mean cell haemoglobin concentration in subjects with haemoglobin C, D, E and S traits. Hinchliffe RF, et al. **Clin Lab Haematol** 1996 Dec;18(4):245–8

Abnormal hemoglobins with high oxygen affinity and erythrocytosis. Wajcman H, et al. **Hematol Cell Ther** 1996 Aug;38(4):305–12 (36 ref.)

Number of abnormal hemoglobins reported in the literature through March 1996. **Hemoglobin** 1996 Aug;20(3):337

[The unstable hemoglobin disease] Maeda M, et al. **Nippon Rinsho** 1996 Sep;54(9):2436–41 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Hb, C, D and E hemoglobinopathies] Ohba Y, et al. **Nippon Rinsho** 1996 Sep;54(9):2448–53 (22 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Unstable hemoglobin as a cause of congenital hemolytic anemia. Singh R, et al. **Indian Pediatr** 1996 Jul;33(7):587–9

ANALYSIS

Hb S/Hb Lepore with mild sickling symptoms: a hemoglobin variant with mostly delta-chain sequences ameliorates sickle-cell disease. Fairbanks VF, et al. **Am J Hematol** 1997 Feb;54(2):164–5

Clinical application of capillary isoelectric focusing on fused silica capillary for determination of hemoglobin variants. Mohammad AA, et al. **Clin Chem** 1997 Sep;43(9):1798–9

Cation-exchange HPLC evaluated for presumptive identification of hemoglobin variants. Riou J, et al. **Clin Chem** 1997 Jan;43(1):34–9

Haemoglobin Hallamshire (beta146 HIS --> TYR): a new high oxygen affinity haemoglobin responsible for familial erythrocytosis. Leach M, et al. **Clin Lab Haematol** 1996 Dec;18(4):237–9

Haemoglobin O Arab in the Pomak population of Thrace. Skaragas G, et al. **Gene Geogr** 1996 Aug;10(2):123–33

A Dutch family with Hb Atlanta [beta 75(E19)Leu-->Pro] Aygün V, et al. **Hemoglobin** 1996 Nov;20(4):351–9

Hb Zürich [beta 63(E7)His-->Arg] found in a Japanese woman. Harano T, et al. **Hemoglobin** 1996 Nov; 20(4):429–34

The levels of abnormal hemoglobin in persons with heterozygosities for an alpha chain variant and for beta-thalassemia. Molchanova TP, et al. **Hemoglobin** 1997 Mar;21(2):173–7

Is cellulose acetate electrophoresis a suitable technique for detection of Hb Bart's at birth? Desai S, et al. **Hum Hered** 1997 Jul-Aug;47(4):181–4

Haemoglobin O Padova and falsely low haemoglobin A1c in a patient with type I diabetes. Schnedl WJ, et al. **J Clin Pathol** 1997 May;50(5):434–5

Sickle cell and G-6-PD deficiency gene in cord blood

samples: experience at King Khalid University Hospital, Riyadh. al-Nuaim L, et al. **J Trop Pediatr** 1997 Apr; 43(2):71-4

Prenatal diagnosis of haemoglobin Bart's disease by cordocentesis at 12-14 weeks' gestation. Lam YH, et al. **Prenat Diagn** 1997 Jun;17(6):501-4

[Determination of glycosylated hemoglobin in hemoglobin variants (letter)] Schnedl WJ, et al. **Wien Klin Wochenschr** 1996;108(14):444 **(Ger)**

[The association of beta zero-thalassemia and Hb D Punjab in a family of Indian origin. The second case reported in Spain] Ropero P, et al. **Med Clin (Barc)** 1997 Mar 15; 108(10):385-8 (34 ref.) (Eng. Abstr.) **(Spa)**

CHEMISTRY

Gamma chain abnormal human fetal hemoglobin variants. Huisman TH. **Am J Hematol** 1997 Jul;55(3):159-63 (46 ref.)

Circular dichroism spectroscopy of Lucina I hemoglobin. Boffi A, et al. **FEBS Lett** 1997 Jul 14;411(2-3):335-8

Structural and functional studies of hemoglobin Moabit (alpha 86(F7) Leu-->Arg. Gulbis B, et al. **Hematol Cell Ther** 1997 Jun;39(3):137-8

The role of proline beta 5(A2) in the functional properties of human adult hemoglobin. Baudin V, et al. **Hemoglobin** 1996 Feb;20(1):55-62

Compound heterozygosity for Hb S and the hybrid HbS Lepore, P-Nilotic, and Kenya; comparison of hematological and hemoglobin composition data. Huisman TH. **Hemoglobin** 1997 May;21(3):249-57

Hb T-Cambodia, a beta chain variant with the mutations of Hb E and Hb D-Punjab, confirmed by DNA analysis. Hutt PJ, et al. **Hemoglobin** 1997 May;21(3):205-18

Hb Nagasaki [beta 17 (A14)Lys-->Glu]: a second case found in a Japanese family. Nakamura T, et al. **Hemoglobin** 1997 Mar;21(2):187-8

Hb Niigata [beta 1 (NA1) Val-->Leu]: the fifth variant with retention of the initiator methionine and partial acetylation. Ohba Y, et al. **Hemoglobin** 1997 Mar;21(2):179-86

Clinical and hematological response to hydroxyurea in a patient with Hb Lepore/beta-thalassemia. Rigano P, et al. **Hemoglobin** 1997 May;21(3):219-26

Hb Bruxelles, deletion of Phebeta42, shows a low oxygen affinity and low cooperativity of ligand binding. Griffon N, et al. **J Biol Chem** 1996 Oct 18;271(42):25916-20

Hb Montefiore (126(H9)Asp-->Tyr). High oxygen affinity and loss of cooperativity secondary to C-terminal disruption. Wajcman H, et al. **J Biol Chem** 1996 Sep 20; 271(38):22990-8

Combined mass spectrometric methods for the characterization of human hemoglobin variants localized within alpha T9 peptide: identification of Hb Villeurbanne alpha 89 (FG1) His-->Tyr. Déon C, et al. **J Mass Spectrom** 1997 Aug;32(8):880-7

Structures of a hemoglobin-based blood substitute: insights into the function of allosteric proteins. Kroeger KS, et al. **Structure** 1997 Feb 15;5(2):227-37 (57 ref.)

GENETICS

Presence of hemoglobinopathies in Sicily: a historic perspective. Schilirò G, et al. **Am J Med Genet** 1997 Mar 17;69(2):200-6

A seven year anthropobiological survey on the distribution of abnormal hemoglobins in Cameroon. Martorana MC, et al. **Anthropol Anz** 1996 Sep;54(3):229-37

Haemoglobin Lleida: a new alpha 2-globin variant (12 bp deletion) with mild thalassaemic phenotype. Ayala S, et al. **Br J Haematol** 1996 Sep;94(4):639-44

Hb Utrecht [alpha 2 129(H12)Leu-->Pro], a new unstable alpha 2-chain variant associated with a mild alpha-thalassaemic phenotype. Harteveld CL, et al. **Br J Haematol** 1996 Sep;94(3):483-5

Verification of Hb O-Arab [beta 121(GH4)Glu-->Lys] by dual restriction enzyme analysis. Akar N, et al. **Hemoglobin** 1996 May;20(2):161-3

Hb Setif [alpha 94(G1)Asp-->Tyr] in Malta. Borg I, et al. **Hemoglobin** 1997 Jan;21(1):91-6

Characterization of Hb Camperdown [beta 104(G6)Arg-->Ser] by capillary electrophoresis and automated solid phase DNA sequencing. Debernardi S, et al. **Hemoglobin** 1996 May;20(2):155-60

HB Hinwil or beta 38(C4)Thr-->Asn: a new beta chain variant detected in a Swiss family. Frischknecht H, et al. **Hemoglobin** 1996 Feb;20(1):31-40

Hb Puttelange [beta 140(H19)Ala-->Val] in an Italian man with polycythemia. Galanello R, et al. **Hemoglobin** 1997 Jan;21(1):17-26

HB Gouda [alpha 72(EF1)His-->Gln], a new silent alpha chain variant. Giordano PC, et al. **Hemoglobin** 1996 Feb; 20(1):21-9

A new observation of Hb Yamagata with a different nucleotide substitution: beta 132 AAA-->AAT. Han JY, et al. **Hemoglobin** 1996 May;20(2):165-8

Hb Geelong [beta 139(H17)Asn-->Asp] found in a Japanese male. Harano T, et al. **Hemoglobin** 1997 Jul;21(4):377-83

Hb Toranomon [beta 112(G14)Cys-->Trp]: a new unstable electrophoretically silent hemoglobin. Harano T, et al. **Hemoglobin** 1996 Nov;20(4):361-9

HB Swan River [alpha 6(A4)ASP-->Gly] observed in a Japanese man. Harano T, et al. **Hemoglobin** 1996 Feb; 20(1):75-8

Hb Sun Prairie: diagnostic pitfalls in thalassemic hemoglobinopathies. Ho PJ, et al. **Hemoglobin** 1996 May; 20(2):103-12

Compound heterozygosity for Hb S and the hybrid HbS Lepore, P-Nilotic, and Kenya; comparison of hematological and hemoglobin composition data. Huisman TH. **Hemoglobin** 1997 May;21(3):249-57

Hb T-Cambodia, a beta chain variant with the mutations of Hb E and Hb D-Punjab, confirmed by DNA analysis. Hutt PJ, et al. **Hemoglobin** 1997 May;21(3):205-18

Hb Cook [beta 132(H10)Lys-->Thr]: a new hemoglobin variant in a southeast Asian family. Hutt PJ, et al. **Hemoglobin** 1996 Nov;20(4):371-6

A new fast-moving variant causing erythrocytosis and mild hemolysis: Hb Gambara [beta 82(EF6)Lys-->Glu]. Ivaldi G, et al. **Hemoglobin** 1997 Jul;21(4):345-61

Hb D-Punjab in the United Arab Emirates. el-Kalla S, et al. **Hemoglobin** 1997 Jul;21(4):369-75

Hb Osler [beta 145(HC2)Tyr-->Asp] results from posttranslational modification. Kattamis AC, et al. **Hemoglobin** 1997 Mar;21(2):109-20

Hb Nunobiki or alpha 2 141 (HC3)Arg-->Cys beta 2 in a Belgian female results from a CGT-->TGT mutation in the alpha 2-globin gene. Kazanetz EG, et al. **Hemoglobin** 1996 Nov;20(4):443-5

Hb J-Europa [beta 62(E6)Ala-->Asp]: normal oxygen binding properties in a new variant involving a residue located distal to the heme. Kiger L, et al. **Hemoglobin** 1996 May;20(2):135-40

Hb Aubenas [beta 62(B8)Glu-->Gly]: a new variant normally synthesized, affecting the same codon as in Hb E. Lacan P, et al. **Hemoglobin** 1996 May;20(2):113-24

Hb Zengcheng [beta 114(G16)Leu-->Met] in a Cambodian family. Lacan P, et al. **Hemoglobin** 1997 Jul;21(4):363-7

Hb Seal Rock [(alpha 2)142 term-->Glu, codon 142 TAA-->GAA]: an extended alpha chain variant associated with anemia, microcytosis, and alpha-thalassemia-2 (-3.7 Kb). Merritt D, et al. **Hemoglobin** 1997 Jul;21(4):331-44

Hb Sögn or alpha 2 beta 2 14(A11)Leu-->Arg in combination with an alpha-thalassemia heterozygosity. Miller DR, et al. **Hemoglobin** 1996 May;20(2):131-4

Hb Camperdown [alpha 2 beta 2 104(G6)Arg-->Ser] identified by DNA analysis in a Brazilian family. Miranda SR, et al. **Hemoglobin** 1996 May;20(2):147-53

Hb Tsurumai [beta 82(EF6)Lys-->Gln]: a new Hb variant with high oxygen affinity and erythrocytosis. Ohba Y, et al. **Hemoglobin** 1996 May;20(2):141-6

Compound heterozygosity for Hb Lepore-Boston and Hb Neapolis (Dhonburi) [beta 126(H4)Val-->Gly] in a patient from Naples, Italy. Pagano L, et al. **Hemoglobin** 1997 Jan; 21(1):1-15

Hb Valletta [beta 87(F3)Thr-->Pro] due to an A-->C substitution at codon 87 in a Calabrian family with alpha-thalassemia. Qualtieri A, et al. **Hemoglobin** 1997 Jan; 21(1):97-103

Hb Watts [alpha 74(EF3) or alpha 75(EF4)Asp-->0]: a shortened alpha chain variant due to the deletion of three nucleotides in exon 2 of the alpha 2-globin gene. Rahbar S, et al. **Hemoglobin** 1997 Jul;21(4):321-30

The relative levels of different types of beta-mRNA and beta-globin in BFU-E derived colonies from patients with beta chain variants; further evidence for somatic mosaicism in the Hb Costa Rica carrier [beta 77(EF1)His-->Arg] Smetanina NS, et al. **Hemoglobin** 1996 Aug;20(3):199-212

Multivariant confirmation of sickle cell disease using a non-radioactive minisequencing reaction. Tuuminen T, et al. **Hemoglobin** 1997 Jan;21(1):71-89

Hb Uxbridge [beta 20 (B2)Val-->Gly]: a new variant with mild increase in oxygen affinity found during a neonatal screening program. Wajcman H, et al. **Hemoglobin** 1996 Nov;20(4):339-50

Hb Lepore-Baltimore (delta 68Leu-beta 84Thr) and Hb Lepore-Washington-Boston (delta 87Gln-beta IVS-II-8) in central Portugal and Spanish Alta Extremadura. Ribeiro ML, et al. **Hum Genet** 1997 May;99(5):669-73

delta-Thalassemic phenotype due to two "novel" delta-globin gene mutations: CD11[GTC-->GGC (A8)-HbA2-Pylos] and CD 85[TTT-->TCT(F1)-HbA2-Etolia]. Drakoulakou O, et al. **Hum Mutat** 1997;9(4):344-7

Destabilization of human alpha-globin mRNA by translation anti-termination is controlled during erythroid differentiation and is paralleled by phased shortening of the poly(A) tail. Morales J, et al. **J Biol Chem** 1997 Mar 7;272(10):6607-13

Hb Montefiore (126(H9)Asp-->Tyr). High oxygen affinity and loss of cooperativity secondary to C-terminal disruption. Wajcman H, et al. **J Biol Chem** 1996 Sep 20; 271(38):22990-8

Distribution of types for six PCR-based loci; LDLR, GYPA, HBGG, D7S8, GC and HLA-DQA1 in central Pyrenees and Teruel (Spain). Bell B, et al. **J Forensic Sci** 1997 May; 42(3):510-3

Population data on the loci LDLR, GYPA, HBGG, D7S8, and GC in three southwest European populations. Rodriguez-Calvo MS, et al. **J Forensic Sci** 1996 Mar; 41(2):291-6

Production, purification, and characterization of recombinant human hemoglobin rainier expressed in Saccharomyces cerevisiae. Motwani N, et al. **Protein Expr Purif** 1996 Dec; 8(4):447-55

Assessment of qualitative functional parameters of stored red blood cells from donors with sickle cell trait (AS) or with heterozygote (AC) status. Ould Amar AK, et al. **Transfus Clin Biol** 1996;3(4):225-33

The presurgical management with erythrocytapheresis of a patient with a high-oxygen-affinity, unstable Hb variant (Hb Bryn Mawr). Larson PJ, et al. **Transfusion** 1997 Jul; 37(7):703-7

Compound heterozygosity for hemoglobin Knossos [alpha 2 beta 2 27 (B9) Ala-Ser] and IVS I-1 mutation. Gürgey A, et al. **Turk J Pediatr** 1997 Apr-Jun;39(2):253-7

ISOLATION & PURIFICATION

The first Japanese case of Hb Santa Ana, an unstable abnormal hemoglobin, identified rapidly by electrospray ionization mass spectrometry. Miyazaki A, et al. **Intern Med** 1997 May;36(5):365-70

METABOLISM

Hb Montefiore (126(H9)Asp-->Tyr). High oxygen affinity and loss of cooperativity secondary to C-terminal disruption. Wajcman H, et al. **J Biol Chem** 1996 Sep 20; 271(38):22990-8

PHYSIOLOGY

Structural and functional studies of hemoglobin Moabit (alpha 86(F7) Leu-->Arg. Gulbis B, et al. **Hematol Cell Ther** 1997 Jun;39(3):137-8

HEMOGLOBINURIA

Rhabdomyolysis and myohemoglobinuric acute renal failure [editorial] Zager RA. **Kidney Int** 1996 Feb;49(2):314-26 (148 ref.)

DIAGNOSIS

Difficulty in applying discriminant function to patients with HbE trait [letter; comment] Liu TC, et al. **Clin Lab Haematol** 1996 Jun;18(2):128-9. Comment on: Clin Lab Haematol 1995 Mar;17(1):31-3.

DRUG THERAPY

Danazol for paroxysmal nocturnal hemoglobinuria. Harrington WJ Sr, et al. **Am J Hematol** 1997 Feb; 54(2):149-54 (31 ref.)

GENETICS

Interaction of hemoglobin E and pyrimidine 5' nucleotidase deficiency. Rees DC, et al. **Blood** 1996 Oct 1;88(7):2761-7

Clinical expression of a rare beta-globin gene mutation co-inherited with haemoglobin E-disease. van Solinge WW, et al. **Eur J Clin Chem Clin Biochem** 1996 Dec; 34(12):949-54

PHYSIOPATHOLOGY

Danazol for paroxysmal nocturnal hemoglobinuria. Harrington WJ Sr, et al. **Am J Hematol** 1997 Feb; 54(2):149-54 (31 ref.)

URINE

Hemoglobin interference with urinary Bence Jones protein analysis on electrophoresis [published erratum appears in Ann Clin Lab Sci 1996 Mar-Apr;26(2):194] Hobbs GA, et al. **Ann Clin Lab Sci** 1996 Jan-Feb;26(1):71-5

VETERINARY

Met-haemoglobinuria in naturally occurring Babesia canis infection. Lobetti RG, et al. **J S Afr Vet Assoc** 1996 Jun; 67(2):88-90

HEMOGLOBINURIA, PAROXYSMAL

Molecular basis of paroxysmal nocturnal hemoglobinuria. Parker CJ. **Stem Cells** 1996 Jul;14(4):396-411 (56 ref.)

[Differentiation of hematopoietic stem cell and expression of GPI-anchor protein in paroxysmal nocturnal hemoglobinuria] Kanamaru A, et al. **Nippon Naika Gakkai Zasshi** 1996 Jul 10;85(7):1160-4 (12 ref.) **(Jpn)**

[Bone marrow failure—current progress in pathophysiology] Hotta T. **Rinsho Ketsueki** 1996 Jun;37(6):472-7 (43 ref.) **(Jpn)**

[Abnormalities in blood cell production] Kanamaru A. **Rinsho Ketsueki** 1996 Jun;37(6):478-82 (12 ref.) **(Jpn)**

BLOOD

Megakaryocyte progenitors in paroxysmal nocturnal haemoglobinuria are sensitive to complement. Basara N, et al. **Eur J Haematol** 1996 Sep;57(3):227-9

Anti-thymocyte globulin treatment of a patient for paroxysmal nocturnal haemoglobinuria-aplastic anaemia syndrome: complement activation and transient decrease of the PNH clone. Ebenbichler CF, et al. **Immunobiology** 1996-97;196(5):513-21

Excess soluble urokinase-type plasminogen activator receptor in the plasma of patients with paroxysmal nocturnal hemoglobinuria inhibits cell-associated fibrinolytic activity. Ninomiya H, et al. **Int J Hematol** 1997 Apr;65(3):285-91

Expression of glycosyl-phosphatidylinositol-linked

glycoproteins in blood cells from paroxysmal nocturnal haemoglobinuria patients: a flow cytometry study using CD55, CD58 and CD59 monoclonal antibodies. Navenot JM, et al. **Leuk Lymphoma** 1996 Mar;21(1-2):143-51

Normal G-CSF-mobilized CD34+ peripheral blood stem cells in paroxysmal nocturnal hemoglobinuria: a perspective for autologous transplantation [letter] Musto P, et al. **Leukemia** 1997 Jun;11(6):890-2

Paroxysmal nocturnal hemoglobinuria: the price for a chance. Bessler M. **Schweiz Med Wochenschr** 1996 Nov 9; 126(45):1912-21 (49 ref.)

Analysis of the expression of glycosylphosphatidylinositol anchored proteins on platelets from patients with paroxysmal nocturnal hemoglobinuria. Maciejewski JP, et al. **Thromb Res** 1996 Sep 15;83(6):433-47

Expression of blood group i antigen and fetal hemoglobin in paroxysmal nocturnal hemoglobinuria. Navenot JM, et al. **Transfusion** 1997 Mar;37(3):291-7

[Complement in paroxysmal nocturnal hemoglobinuria] Porcel-Pérez JM, et al. **Rev Clin Esp** 1996 Mar;196 Spec No:31-5 (36 ref.) **(Spa)**

CHEMICALLY INDUCED

Development of paroxysmal nocturnal hemoglobinuria after chemotherapy [letter] Hakim F, et al. **Blood** 1996 Dec 15; 88(12):4725-6

COMPLICATIONS

Lactic acidosis secondary to severe anemia in a patient with paroxysmal nocturnal hemoglobinuria. Essex DW, et al. **Am J Hematol** 1997 Jun;55(2):110-1

Bilateral papilledema with retinal hemorrhages in association with cerebral venous sinus thrombosis and paroxysmal nocturnal hemoglobinuria. Hauser D, et al. **Am J Ophthalmol** 1996 Oct;122(4):592-3

Trisomy 8 in a patient who responded to therapy with all-trans-retinoic acid and developed paroxysmal nocturnal haemoglobinuria. Viniou N, et al. **Br J Haematol** 1997 Apr; 97(1):135-6

Cholangitis and paroxysmal nocturnal hemoglobinuria [letter] Durand JM, et al. **Dig Dis Sci** 1997 Feb;42(2):279-80

Acute leukaemia in paroxysmal nocturnal haemoglobinuria. Case report and review of the literature. Cornélis F, et al. **Hematol Cell Ther** 1996 Jul;38(3):285-8

DIAGNOSIS

Paroxysmal nocturnal hemoglobinuria presenting as moyamoya syndrome. Lin HC, et al. **Brain Dev** 1996 Mar-Apr;18(2):157-9

Imaging interpretation session: 1996. Paroxysmal nocturnal hemoglobinuria (PNH). **Radiographics** 1997 Jan-Feb; 17(1):263-5

[Paroxysmal nocturnal hemoglobinuria] Schütz A, et al. **Rontgenpraxis** 1996 Dec;49(12):303-4 **(Ger)**

[Nocturnal paroxysmal hemoglobinuria--case report] Boguradzki P, et al. **Pol Arch Med Wewn** 1996 Jul; 96(1):54-7 (Eng. Abstr.) **(Pol)**

[A case of the diagnosis of paroxysmal nocturnal hemoglobinuria] Ivanova SV, et al. **Ter Arkh** 1996; 68(11):73-4 **(Rus)**

DRUG THERAPY

Cyclosporin-responsive pancytopenia and HLA class II alleles of a patient with paroxysmal nocturnal hemoglobinuria [letter] Horikawa K, et al. **Int J Hematol** 1996 Feb;63(2):165-6

ETIOLOGY

Myelodysplasia following aplastic anaemia-paroxysmal nocturnal haemoglobinuria syndrome after treatment with immunosuppression and G-CSF: evidence for the emergence of a separate clone. Jin JY, et al. **Br J Haematol** 1996 Sep;94(3):510-2

Sequential development of myelodysplasia and paroxysmal nocturnal hemoglobinuria in a patient with preceding aplastic anemia [letter] Nagakura S, et al. **Int J Hematol** 1997 Feb;65(2):187-9

Hematopoiesis and the defect in paroxysmal nocturnal hemoglobinuria [editorial (comment)] Rosse WF. **J Clin Invest** 1997 Sep 1;100(5):953-4. Comment on: J Clin Invest 1997 Sep 1;100(5):1028-36.

Murine embryonic stem cells without pig-a gene activity are competent for hematopoiesis with the PNH phenotype but not for clonal expansion [see comments] Rosti V, et al. **J Clin Invest** 1997 Sep 1;100(5):1028-36. Comment in: J Clin Invest 1997 Sep 1;100(5):953-4.

Paroxysmal nocturnal hemoglobinuria: new insights from murine Pig-a-deficient hematopoiesis. Devetten MP, et al. **Proc Assoc Am Physicians** 1997 Mar;109(2):99-110 (68 ref.)

[Paroxysmal nocturnal hemoglobinuria and complement regulatory factors] Kinoshita T. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):634-6 (15 ref.) **(Jpn)**

GENETICS

A patient with paroxysmal nocturnal hemoglobinuria bearing four independent PIG-A mutant clones. Nishimura J, et al. **Blood** 1997 May 1;89(9):3470-6

Both paroxysmal nocturnal hemoglobinuria (PNH) type II cells and PNH type III cells can arise from different point mutations involving the same codon of the PIG-A gene [letter] Rollinson S, et al. **Blood** 1997 Apr 15;89(8):3069-71

Increased frequency of somatic mutations at glycophorin A loci in patients with aplastic anaemia, myelodysplastic syndrome and paroxysmal nocturnal haemoglobinuria. Hattori H, et al. **Br J Haematol** 1997 Aug;98(2):384-91

PIG-A gene mutations in four Taiwanese patients with paroxysmal nocturnal haemoglobinuria following aplastic anaemia. Lin LI, et al. **Br J Haematol** 1997 May; 97(2):286-92

Recurrent PIG-A mutation (IVS5+1G-->A) in a paediatric case of paroxysmal nocturnal haemoglobinuria: detection by the protein truncation test. Maugard C, et al. **Br J Haematol** 1997 Jul;98(1):21-4

Paroxysmal nocturnal haemoglobinuria due to an 88 bp direct tandem repeat insertion in the PIG-A gene. Pavlu J, et al. **Br J Haematol** 1997 Aug;98(2):289-91

Somatic mutations in paroxysmal nocturnal hemoglobinuria: a blessing in disguise? Luzzatto L, et al. **Cell** 1997 Jan 10; 88(1):1-4 (22 ref.)

Factor V Leiden mutation investigated by amplification created restriction enzyme site (ACRES) in PNH patients with and without thrombosis. Nafa K, et al. **Haematologica** 1996 Nov-Dec;81(6):540-2

Somatic mutation in paroxysmal nocturnal hemoglobinuria. Luzzatto L. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):125-31, 135-6, 139-40 (7 ref.)

Paroxysmal nocturnal hemoglobinuria as a molecular disease. Rosse WF. **Medicine (Baltimore)** 1997 Mar;76(2):63-93 (330 ref.)

Resistance to apoptosis caused by PIG-A gene mutations in paroxysmal nocturnal hemoglobinuria. Brodsky RA, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8756-60

A knock-out model of paroxysmal nocturnal hemoglobinuria: Pig-a(-) hematopoiesis is reconstituted following intercellular transfer of GPI-anchored proteins. Dunn DE, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7938-43

[Paroxysmal nocturnal hemoglobinuria] Wada H, et al. **Nippon Rinsho** 1996 Sep;54(9):2507-12 (21 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Antibody selection against CD52 produces a paroxysmal nocturnal haemoglobinuria phenotype in human lymphocytes by a novel mechanism. Taylor VC, et al. **Biochem J** 1997 Mar 15;322 (Pt 3):919-25

Report on a patient with paroxysmal cold hemoglobinuria [published erratum appears in Int J Hematol 1997 Jul;66(1):121] Subbarayan PR, et al. **Int J Hematol** 1997 Feb;65(2):165-7

Flow cytometry and immunoblotting analysis of monoclonal antibodies directed to complement regulatory proteins. Blanchard D, et al. **Transfus Clin Biol** 1997;4(1):131-4

[Cold agglutinin disease and paroxysmal cold hemoglobinuria] Kannagi R, et al. **Nippon Rinsho** 1996 Sep; 54(9):2519-27 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Hemophagocytosis in a child with paroxysmal cold hemoglobinuria] Takeda M, et al. **Rinsho Ketsueki** 1996 Aug;37(8):707-12 (Eng. Abstr.) **(Jpn)**

METABOLISM

Glycosylphosphatidyl-inositol (GPI)-linked protein deficiency on the platelets of patients with aplastic anaemia and paroxysmal nocturnal haemoglobinuria: two distinct patterns correlating with expression on neutrophils. Jin JY, et al. **Br J Haematol** 1997 Mar;96(3):493-6

PATHOLOGY

Relationship between the phenotypes of circulating erythrocytes and cultured erythroblasts in paroxysmal nocturnal hemoglobinuria. Shichishima T, et al. **Blood** 1997 Jul 1;90(1):435-43

Impaired migration in vitro of neutrophils from patients with paroxysmal nocturnal haemoglobinuria. Pedersen TL, et al. **Br J Haematol** 1996 Oct;95(1):45-51

Resistance to apoptosis caused by PIG-A gene mutations in paroxysmal nocturnal hemoglobinuria. Brodsky RA, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8756-60

A knock-out model of paroxysmal nocturnal hemoglobinuria: Pig-a(-) hematopoiesis is reconstituted following intercellular transfer of GPI-anchored proteins. Dunn DE, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7938-43

PHYSIOPATHOLOGY

Paroxysmal nocturnal hemoglobinura in the Chinese [letter] Kwong YL, et al. **Am J Hematol** 1997 Mar;54(3):264-5

Mechanism of intravascular hemolysis in paroxysmal nocturnal hemoglobinuria (PNH). Nakakuma H. **Am J Hematol** 1996 Sep;53(1):22-9 (71 ref.)

G-CSF and cyclosporin induce an increase of normal cells in hypoplastic paroxysmal nocturnal hemoglobinuria. Schubert J, et al. **Ann Hematol** 1997 May;74(5):225-30

Impaired hematopoiesis in paroxysmal nocturnal hemoglobinuria/aplastic anemia is not associated with a selective proliferative defect in the glycosylphosphatidylinositol-anchored protein-deficient clone. Maciejewski JP, et al. **Blood** 1997 Feb 15; 89(4):1173-81

Paroxysmal nocturnal hemoglobinuria (PNH): mechanism of intravascular hemolysis. Nakakuma H, et al. **Crit Rev Oncol Hematol** 1996 Nov;24(3):213-29 (191 ref.)

THERAPY

Treatment with recombinant human erythropoietin (rHuEpo) in a patient with paroxysmal nocturnal haemoglobinuria: evaluation of membrane proteins CD55 and CD59 with cytofluorometric assay. Astori C, et al. **Br J Haematol** 1997 Jun;97(3):586-8

Clinical characteristics predict response to antithymocyte globulin in paroxysmal nocturnal haemoglobinuria. Paquette RL, et al. **Br J Haematol** 1997 Jan;96(1):92-7

Anti-thymocyte globulin treatment of a patient for paroxysmal nocturnal haemoglobinuria-aplastic anaemia syndrome: complement activation and transient decrease of the PNH clone. Ebenbichler CF, et al. **Immunobiology** 1996-97;196(5):513-21

Normal G-CSF-mobilized CD34+ peripheral blood stem cells in paroxysmal nocturnal hemoglobinuria: a perspective for autologous transplantation [letter] Musto P, et al. **Leukemia** 1997 Jun;11(6):890-2

HEMOLYMPH

Studies on haemolymph nodes. IV. Comparison of the route of entry of carbon particles into parathymic nodes after intravenous and intraperitoneal injection. Abu-Hijleh MF, et al. **J Anat** 1996 Jun;188 (Pt 3):565-73

Haemolymph from female beetles infected with Hymenolepis diminuta metacestodes retards the development of ovarian follicles in recipient Tenebrio molitor (Coleoptera). Major M, et al. **Parasitology** 1997 Feb;114 (Pt 2):175-9

CHEMISTRY

Serine proteinase inhibitors from insect hemolymph. Polanowski A, et al. **Acta Biochim Pol** 1996;43(3):445-53 (42 ref.)

Further biochemical and biophysical characterisation of scyllin, Scylla serrata hemolymph lectin. Chattopadhyay T, et al. **Biochem Mol Biol Int** 1997 Jun;42(1):183-91

Structure and differential target sensitivity of the stimulable cytotoxic complex from hemolymph of the Mediterranean mussel Mytilus galloprovincialis. Hubert F, et al. **Biochim Biophys Acta** 1997 Jul 10;1361(1):29-41

Purification and properties of a lipid transfer particle from Bombyx mori: comparison to the lipid transfer particle from Manduca sexta. Tsuchida K, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):57-65

On the presence of prophenoloxidase in the hemolymph of the horseshoe crab, Limulus. Nellaiappan K, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1996 Jan; 113(1):163-8

A heterogeneous sialic acid-binding lectin with affinity for bacterial LPS from horse mussel (Modiolus modiolus) hemolymph. Tunkijjanukij S, et al. **Comp Biochem Physiol B Biochem Mol Biol** 1997 Jun; 117(2):273-86

Gloverin, an antibacterial protein from the immune hemolymph of Hyalophora pupae. Axén A, et al. **Eur J Biochem** 1997 Jul 15;247(2):614-9

Evidence for glycosylation of the juvenile-hormone-binding protein from Galleria mellonella hemolymph. Duk M, et al. **Eur J Biochem** 1996 Dec 15;242(3):741-6

Ovarian and hemolymph ecdysteroids in the terrestrial isopod Armadillidium vulgare (Malacostracan Crustacea). Suzuki S, et al. **Gen Comp Endocrinol** 1996 Nov;104(2):129-38

Sequence of the hexameric juvenile hormone-binding protein from the hemolymph of Locusta migratoria. Braun RP, et al. **J Biol Chem** 1996 Dec 6;271(49):31756-62

Isolation and identification of a plasmatocyte-spreading peptide from the hemolymph of the lepidopteran insect Pseudoplusia includens. Clark KD, et al. **J Biol Chem** 1997 Sep 12;272(37):23440-7

Characterization of novel cysteine-rich antimicrobial peptides from scorpion blood. Ehret-Sabatier L, et al. **J Biol Chem** 1996 Nov 22;271(47):29537-44

Isolation and characterization of the high-density lipoproteins from the hemolymph and ovary of the penaeid shrimp Penaeus semisulcatus (de Haan): apoproteins and lipids. Lubzens E, et al. **J Exp Zool** 1997 Aug 15; 278(6):339-48

Circulating levels of Locusta diuretic hormone: the effects of feeding. Audsley N, et al. **Peptides** 1997;18(1):59-65

CYTOLOGY

Cell-mediated haemolytic activity of haemolymph from the Colorado potato beetle (Leptinotarsa decemlineata Say.) Glupov VV. **Cytobios** 1996;86(344):35-51

Detection of mutant p53 in clam leukemia cells. Barker CM, et al. **Exp Cell Res** 1997 May 1;232(2):240-5

Morphological characterization of the hemocytes of the clam, Ruditapes decussatus (Mollusca: Bivalvia). López C, et al. **J Invertebr Pathol** 1997 Jan;69(1):51-7

[Behavior of hemolymph amebocytes from planorbidae in the presence of Schistosoma mansoni larvae parasitism, after inoculation of Indian ink or fracture of the shell] de Seta L, et al. **Rev Saude Publica** 1996 Aug;30(4):332-40 (Eng. Abstr.) **(Por)**

ENZYMOLOGY

New possible molluscicides from Calendula micrantha officinalis and Ammi majus. II. Molluscicidal, physiological, and egg-laying effects against Biomphalaria alexandrina and Bulinus truncatus. Rawi SM, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):261-7

Detection of peptidoglycan and beta-glucan with silkworm larvae plasma test. Tsuchiya M, et al. **FEMS Immunol Med Microbiol** 1996 Sep;15(2-3):129-34

Detection of phenoloxidase activity in the hemolymph of tsetse flies, refractory and susceptible to infection with Trypanosoma brucei rhodesiense. Nigam Y, et al. **J Invertebr Pathol** 1997 May;69(3):279-81

Electrophoretic separation and identification of phenoloxidases in hemolymph and midgut of adult Anopheles stephensi mosquitoes. Sidjanski S, et al. **J Parasitol** 1997 Aug;83(4):686-91

Effects of inhibitors of serine protease, phenoloxidase and dopa decarboxylase on the melanization of Dirofilaria immitis microfilariae with Armigeres subalbatus haemolymph in vitro. Liu CT, et al. **Parasitology** 1997 Jul; 115 (Pt 1):57-68

Degradation of Dip-allatostatins by hemolymph from the cockroach, Diploptera punctata. Garside CS, et al. **Peptides** 1997;18(1):17-25

IMMUNOLOGY

The role of hemolymph coagulation in innate immunity. Muta T, et al. **Curr Opin Immunol** 1996 Feb;8(1):41-7 (48 ref.)

Phagocytosis of latex beads by Biomphalaria glabrata hemocytes is modulated in a strain-specific manner by adsorbed plasma components. Fryer SE, et al. **Dev Comp Immunol** 1996 Jan-Feb;20(1):23-37

An invertebrate (Molluscan) plasma protein that binds to vertebrate immunoglobulins and its potential for yielding false-positives in antibody-based detection systems. Hahn UK, et al. **Dev Comp Immunol** 1996 Jan-Feb;20(1):39-50

Lipopolysaccharide-binding proteins and their involvement in the bacterial clearance from the hemolymph of the silkworm Bombyx mori. Koizumi N, et al. **Eur J Biochem** 1997 Aug 15;248(1):217-24

Antibacterial immune response in Astacus leptodactylus (Crustacea, Decapoda). Xylander WE, et al. **In Vivo** 1997 Mar-Apr;11(2):195-200

Cellular hemolymph response of Simulium vittatum (Diptera:Simuliidae) to intrathoracic injection of Onchocerca lienalis (Filarioidea:Onchocercidae) microfilariae. Cupp MS, et al. **J Med Entomol** 1997 Jan; 34(1):56-63

METABOLISM

Immunoaffinity purification of juvenile hormone-binding protein from Galleria mellonella hemolymph. Wieczorek E, et al. **Acta Biochim Pol** 1996;43(4):603-10

The concentrations of vitellogenin (vitellin) and protein in hemolymph, ovary and hepatopancreas in different ovarian stages of the freshwater prawn, Macrobrachium rosenbergii. Lee FY, et al. **Comp Biochem Physiol A Physiol** 1997 Aug;117(4):433-9

Changes in protein metabolism in hemolymph and fat body of the silkworm, Bombyx mori (Lepidoptera: Bombycidae) in response to organophosphorus insecticides toxicity. Nath BS, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):169-73

Conservation of hexamerin endocytosis in Diptera. Burmester T, et al. **Eur J Biochem** 1997 Mar 15;244(3):713-20

Urate protects a blood-sucking insect against hemin-induced oxidative stress. Souza AV, et al. **Free Radic Biol Med** 1997;22(1-2):209-14

Identification and characterization of methyl farnesoate binding proteins from the crab, Cancer magister. Tamone SL, et al. **Gen Comp Endocrinol** 1997 Feb;105(2):168-75

Isolation of a calcium-binding phosphoprotein from the oocytes and hemolymph of the blood-sucking insect Rhodnius prolixus. Silva-Neto MA, et al. **J Biol Chem** 1996 Nov 22;271(47):30227-32

MICROBIOLOGY

Use of hemolymph test for detection of rickettsiae in Malaysian ticks. Tay ST, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):642-4

PHYSIOLOGY

Evidence for circulating hemocyte proliferation in the shrimp Penaeus japonicus. Sequeira T, et al. **Dev Comp Immunol** 1996 Mar-Apr;20(2):97-104

Effectors of metabolic depression in an estivating pulmonate snail (Helix aspersa): whole animal and in vitro tissue studies. Pedler S, et al. **J Comp Physiol [B]** 1996; 166(6):375-81

HEMOLYSIN FACTORS

Haemolytic activity of Aeromonas species isolated in Libya. Ghenghesh KS, et al. **Arch Inst Pasteur Tunis** 1995 Jan-Apr;72(1-2):13-5

CHEMISTRY

Partial characterization of the cohemolytic factor produced by Streptococcus uberis and comparison with the CAMP-factor. Lopes MF, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3-4):205-12

HEMOLYSINS

Building doors into cells. Bayley H. **Sci Am** 1997 Sep; 277(3):62-7

The use of listeriolysin O in an ELISA, a skin test and a lymphocyte blastogenesis assay on sheep experimentally infected with Listeria monocytogenes, Listeria ivanovii or Listeria innocua. Baetz AL, et al. **Vet Microbiol** 1996 Jul; 51(1-2):151-9

ANALYSIS

Pleiotropic effects of a mutation in rfaC on Escherichia coli hemolysin. Bauer ME, et al. **Infect Immun** 1997 Jun; 65(6):2218-24

Crosslinked plasmalemmal cholesterol is sequestered to caveolae: analysis with a new cytochemical probe. Fujimoto T, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1197-205

Characterization of Actinobacillus actinomycetemcomitans hemolysin. Kimizuka R, et al. **Microbiol Immunol** 1996; 40(10):717-23

BIOSYNTHESIS

Conversion of bacterial gene products to secretion-competent fusion proteins. Mollenkopf HJ, et al. **Biotechniques** 1996 Nov;21(5):854, 856-60

Expression of listeriolysin O by intracellular Listeria monocytogenes following infection of lipopolysaccharide-treated or untreated J774.1 macrophage-like cells. Moriishi K, et al. **FEMS Immunol Med Microbiol** 1996 Dec 31; 16(3-4):213-22

Variation in the agr-dependent expression of alpha-toxin and protein A among clinical isolates of Staphylococcus aureus from patients with septicaemia. Li S, et al. **FEMS Microbiol Lett** 1997 Jul 1;152(1):155-61

Expression of an antisense hla fragment in Staphylococcus aureus reduces alpha-toxin production in vitro and attenuates lethal activity in a murine model. Kernodle DS, et al. **Infect Immun** 1997 Jan;65(1):179-84

The role of the amino terminus in the kinetics and assembly of alpha-hemolysin of Staphylococcus aureus. Vandana S, et al. **J Biol Chem** 1997 Oct 3;272(40):24858-63

Factors affecting production of haemolysin by strains of Vibrio fluvialis. Rahim Z, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):113-6

Production of haemolysin and enterotoxin by Aeromonas jandaei and Aeromonas trota strains after animal passage. Singh DV, et al. **J Diarrhoeal Dis Res** 1996 Dec;14(4):274-9

Selective survival of a thermostable direct hemolysin-producing Vibrio parahaemolyticus in the alimentary tract of a juvenile estuarine gastropod (Clithon retropictus). Kumazawa NH, et al. **J Vet Med Sci** 1997 Apr;59(4):277-9

Behaviour of Aeromonas spp. after animal passage. Almeida VC, et al. **Mem Inst Oswaldo Cruz** 1996 Jul-Aug; 91(4):499-500

The enterohemolysin phenotype of bovine Shiga-like toxin-producing Escherichia coli (SLTEC) is encoded by the EHEC-hemolysin gene. Wieler LH, et al. **Vet Microbiol** 1996 Sep;52(1-2):153-64

[Cytolysins and homologous proteins produced by gram-negative bacteria. II. Hemolysins of Aeromonas, Serratia, Proteus and Morganella and proteins from gram-negative bacteria related to cytolysins] Różalski A. **Postepy Hig Med Dosw** 1996;50(4):363-74 (69 ref.) (Eng. Abstr.) **(Pol)**

BLOOD

Hemolysins and plasmid profiles of Vibrio parahaemolyticus. Vadivelu J, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):126-31

CHEMISTRY

The heptameric prepore of a staphylococcal alpha-hemolysin mutant in lipid bilayers imaged by atomic force microscopy. Fang Y, et al. **Biochemistry** 1997 Aug 5; 36(31):9518-22

A predicted beta-sheet from class S components of staphylococcal gamma-hemolysin is essential for the secondary interaction of the class F component. Meunier O, et al. **Biochim Biophys Acta** 1997 Jun 12;1326(2):275-86

Staphylococcal alpha-toxin: the role of the N-terminus in formation of the heptameric pore --- a fluorescence study. Valeva A, et al. **Biochim Biophys Acta** 1997 Apr 26; 1325(2):281-6

Reversible adsorption and nonreversible insertion of Escherichia coli alpha-hemolysin into lipid bilayers. Bakás L, et al. **Biophys J** 1996 Oct;71(4):1869-76

Designed protein pores as components for biosensors. Braha O, et al. **Chem Biol** 1997 Jul;4(7):497-505

Characterization of hemolytic and cytotoxic Gallysins: a relationship with arylphorins. Beresford PJ, et al. **Dev Comp Immunol** 1997 May-Jun;21(3):253-66

Crystallization and preliminary X-ray analysis of a thiol-activated cytolysin. Feil SC, et al. **FEBS Lett** 1996 Nov 18;397(2-3):290-2

Small-angle X-ray scattering study on CEL-III, a hemolytic lectin from Holothuroidea Cucumaria echinata, and its oligomer induced by the binding of specific carbohydrate. Fujisawa T, et al. **FEBS Lett** 1997 Sep 1;414(1):79-83

Purification and characterisation of a hemolysin with phospholipase C activity from Vibrio cholerae O139. Pal S, et al. **FEMS Microbiol Lett** 1997 Feb 1;147(1):115-20

Analysis of functional domains of Vibrio parahaemolyticus thermostable direct hemolysin using monoclonal antibodies. Tang G, et al. **FEMS Microbiol Lett** 1997 May 15; 150(2):289-96

Prelytic and lytic conformations of erythrocyte-associated Escherichia coli hemolysin. Moayeri M, et al. **Infect Immun** 1997 Jun;65(6):2233-9

Tripartite hemolysin BL from Bacillus cereus. Hemolytic analysis of component interactions and a model for its characteristic paradoxical zone phenomenon. Beecher DJ, et al. **J Biol Chem** 1997 Jan 3;272(1):233-9

Intramolecular chaperone activity of the pro-region of Vibrio cholerae El Tor cytolysin. Nagamune K, et al. **J Biol Chem** 1997 Jan 10;272(2):1338-43

Carbohydrate-mediated regulation of interaction of Vibrio cholerae hemolysin with erythrocyte and phospholipid vesicle. Saha N, et al. **J Biol Chem** 1997 Jan 3;272(1):162-7

The role of the amino terminus in the kinetics and assembly of alpha-hemolysin of Staphylococcus aureus. Vandana S, et al. **J Biol Chem** 1997 Oct 3;272(40):24858-63

Staphylococcus aureus alpha-toxin: characterization of protein/lipid interactions, 2D crystallization on lipid monolayers, and 3D structure. Ellis MJ, et al. **J Struct Biol** 1997 Apr;118(3):178-88

Penetrating insights into pore formation [news] Hughson FM. **Nat Struct Biol** 1997 Feb;4(2):89-92 (28 ref.)

Crossing the hydrophobic barrier: insertion of membrane proteins [comment] Engelman DM. **Science** 1996 Dec 13; 274(5294):1850-1. Comment on: Science 1996 Dec 13;274(5294):1859-66.

Structure of staphylococcal alpha-hemolysin, a heptameric transmembrane pore [see comments] Song L, et al. **Science** 1996 Dec 13;274(5294):1859-66. Comment in: Science 1996 Dec 13;274(5294):1805-1.

The structure of Staphylococcus aureus epidermolytic toxin A, an atypic serine protease, at 1.7 A resolution. Cavarelli J, et al. **Structure** 1997 Jun 15;5(6):813-24

[Thermostable Pseudomonas pseudomallei hemolysin] Denisov II, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jan-Feb;(1):16-9 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

The effects of physical and chemical agents on the secretion and stability of a Fusobacterium necrophorum hemolysin. Amoako KK, et al. **Vet Microbiol** 1996 Jul;51(1-2):115-24

Stability and stabilization of Fusobacterium necrophorum hemolysin. Amoako KK, et al. **Vet Microbiol** 1996 May; 50(1-2):149-53

GENETICS

Hemolysin phenotypes and genotypes of eaeA-positive and eaeA-negative bovine verotoxigenic Escherichia coli. Sandhu KS, et al. **Adv Exp Med Biol** 1997;412:295-302

A nucleic acid sequence-based amplification system for detection of Listeria monocytogenes hlyA sequences. Blais BW, et al. **Appl Environ Microbiol** 1997 Jan;63(1):310-3

Identification of a gene for Cyt1A-like hemolysin from Bacillus thuringiensis subsp. medellin and expression in a crystal-negative B. thuringiensis strain. Thiery I, et al. **Appl Environ Microbiol** 1997 Feb;63(2):468-73

Nucleotide sequence of the vmhA gene encoding hemolysin from Vibrio mimicus. Kim GT, et al. **Biochim Biophys Acta** 1997 Apr 12;1360(2):102-4

Sequence and expression of an Eisenia-fetida-derived cDNA clone that encodes the 40-kDa fetidin antibacterial protein. Lassegues M, et al. **Eur J Biochem** 1997 Jun 15; 246(3):756-62

Distribution of the synergistic haemolysin genes hld and slush with respect to agr in human staphylococci. Donvito B, et al. **FEMS Microbiol Lett** 1997 Jun 15;151(2):139-44

Cloning and characterization of a Prevotella melaninogenica hemolysin. Allison HE, et al. **Infect Immun** 1997 Jul; 65(7):2765-71

The gene slyA of Salmonella typhimurium is required for destruction of M cells and intracellular survival but not for invasion or colonization of the murine small intestine. Daniels JJ, et al. **Infect Immun** 1996 Dec;64(12):5075-84

Synergistic hemolytic activity of Staphylococcus lugdunensis is mediated by three peptides encoded by a non-agr genetic locus. Donvito B, et al. **Infect Immun** 1997 Jan;65(1):95-100

Analysis of expression of the alpha-toxin gene (hla) of Staphylococcus aureus by using a chromosomally encoded hla::lacZ gene fusion. Ohlsen K, et al. **Infect Immun** 1997 Sep;65(9):3606-14

Incomplete activation of Escherichia coli hemolysin (HlyA) due to mutations in the 3' region of hlyC. Guzmán-Verri C, et al. **J Bacteriol** 1997 Sep;179(18):5959-62

Enhancing transcription through the Escherichia coli hemolysin operon, hlyCABD: RfaH and upstream JUMPStart DNA sequences function together via a postinitiation mechanism. Leeds JA, et al. **J Bacteriol** 1997 Jun;179(11):3519-27

Molecular cloning and characterization of the genes encoding

the L1 and L2 components of hemolysin BL from Bacillus cereus. Ryan PA, et al. **J Bacteriol** 1997 Apr;179(8):2551–6

Analysis of the thermostable direct hemolysin (tdh) gene and the tdh-related hemolysin (trh) genes in urease-positive strains of Vibrio parahaemolyticus isolated on the West Coast of the United States. Okuda J, et al. **J Clin Microbiol** 1997 Aug;35(8):1965–71

Characterization of cytotoxic, hemolytic Aeromonas caviae clinical isolates and their identification by determining presence of a unique hemolysin gene. Wang G, et al. **J Clin Microbiol** 1996 Dec;34(12):3203–5

The thermostable direct hemolysin gene (tdh) of Vibrio hollisae is dissimilar in prevalence to and phylogenetically distant from the tdh genes of other vibrios: implications in the horizontal transfer of the tdh gene. Nishibuchi M, et al. **Microbiol Immunol** 1996;40(1):59–65

Analysis of the structural gene encoding a hemolysin in Vibrio mimicus. Rahman MM, et al. **Microbiol Immunol** 1997;41(2):169–73

Characterization of epitopes involved in the neutralization of Pasteurella haemolytica serotype A1 leukotoxin. Lainson FA, et al. **Microbiology** 1996 Sep;142 (Pt 9):2499–507

Analysis of the EHEC hly operon and its location in the physical map of the large plasmid of enterohaemorrhagic Escherichia coli O157:h7. Schmidt H, et al. **Microbiology** 1996 Apr;142 (Pt 4):907–14

Mini-TnhlyAs: a new tool for the construction of secreted fusion proteins. Gentschev I, et al. **Mol Gen Genet** 1996 Sep 13;252(3):266–74

Increased distal gene transcription by the elongation factor RfaH, a specialized homologue of NusG. Bailey MJ, et al. **Mol Microbiol** 1996 Nov;22(4):729–37

Cloning and analysis of a Borrelia burgdorferi membrane-interactive protein exhibiting haemolytic activity. Guina T, et al. **Mol Microbiol** 1997 Jun; 24(6):1201–13

Iron-regulated haemolysin gene from Edwardsiella tarda. Hirono I, et al. **Mol Microbiol** 1997 May;24(4):851–6

Phosphorylation-dependent binding of BvgA to the upstream region of the cyaA gene of Bordetella pertussis. Karimova G, et al. **Mol Microbiol** 1996 May;20(3):489–96

Induction of haemolytic activity in Escherichia coli by the slyA gene product. Oscarsson J, et al. **Mol Microbiol** 1996 Apr;20(1):191–9

An isogenic haemolysin-deficient mutant of Haemophilus ducreyi lacks the ability to produce cytopathic effects on human foreskin fibroblasts. Palmer KL, et al. **Mol Microbiol** 1996 Jul;21(1):13–9

Cloning and characterization of the genes encoding the hemolysin of Haemophilus ducreyi. Palmer KL, et al. **Mol Microbiol** 1995 Dec;18(5):821–30

[Rapid detection of the hemolysin genes in Aeromonas sobria by the polymerase chain reaction] Shibata M, et al. **Kansenshogaku Zasshi** 1996 Dec;70(12):1266–70 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Specific immune response against Gardnerella vaginalis hemolysin in patients with bacterial vaginosis. Cauci S, et al. **Am J Obstet Gynecol** 1996 Dec;175(6):1601–5

Effect of antibodies to staphylococcal alpha and beta toxins and Staphylococcus aureus on the cytotoxicity for and adherence of the organism to bovine mammary epithelial cells. Cifrian E, et al. **Am J Vet Res** 1996 Sep;57(9):1308–11

TAP-dependent major histocompatibility complex class I presentation of soluble proteins using listeriolysin. Darji A, et al. **Eur J Immunol** 1997 Jun;27(6):1353–9

Protective immunity against Clostridium difficile toxin A induced by oral immunization with a live, attenuated Vibrio cholerae vector strain. Ryan ET, et al. **Infect Immun** 1997 Jul;65(7):2941–9

A standard immunoglobulin preparation produced from bovine colostra shows antibody reactivity and neutralization activity against Shiga-like toxins and EHEC-hemolysin of Escherichia coli O157:H7. Lissner R, et al. **Infection** 1996 Sep–Oct;24(5):378–83

Serodiagnosis of listeriosis based upon detection of antibodies against recombinant truncated forms of listeriolysin O. Gholizadeh Y, et al. **J Clin Microbiol** 1996 Jun;34(6):1391–5

Protective efficacy of an affinity-purified hemolysin vaccine against experimental swine pleuropneumonia. Haga Y, et al. **J Vet Med Sci** 1997 Feb;59(2):115–20

Characterization of epitopes involved in the neutralization of Pasteurella haemolytica serotype A1 leukotoxin. Lainson FA, et al. **Microbiology** 1996 Sep;142 (Pt 9):2499–507

ISOLATION & PURIFICATION

Cell-mediated haemolytic activity of haemolymph from the Colorado potato beetle (Leptinotarsa decemlineata Say.) Glupov VV. **Cytobios** 1996;86(344):35–51

A lethal cardiotoxic protein isolated from Bidder's organ of common Indian toad, Bufo melanostictus Schneider. Gomes A, et al. **Indian J Exp Biol** 1996 Mar;34(3):211–5

Purification and characterization of a hemolysin produced by Vibrio mimicus. Miyoshi S, et al. **Infect Immun** 1997 May;65(5):1830–5

Isolation of a contact-dependent haemolysin from Mycobacterium tuberculosis. Deshpande RG, et al. **J Med Microbiol** 1997 Mar;46(3):233–8

Hemolytic activity in extracts of the diatom Nitzschia. Rangel M, et al. **Toxicon** 1997 Feb;35(2):305–9

Identification and partial characterization of an Actinomyces pyogenes hemolysin. Funk PG, et al. **Vet Microbiol** 1996 May;50(1–2):129–42

Purification and further characterization of a haemolysin of Actinomyces pyogenes. Ding H, et al. **Zentralbl Veterinarmed [B]** 1996 May;43(3):179–88

METABOLISM

The sae locus of Staphylococcus aureus controls exoprotein synthesis at the transcriptional level. Giraudo AT, et al. **Arch Microbiol** 1997 Jul;168(1):53–8

Binding assay of low density lipoprotein to Asp-hemolysin from Aspergillus fumigatus. Fukuchi Y, et al. **Biol Pharm Bull** 1996 Oct;19(10):1380–1

Crossreactivity of hemolytic and hemagglutinating proteins in the coelomic fluid of lumbricidae (Annelida). Mohrig W, et al. **Comp Biochem Physiol A Physiol** 1996 Sep; 115(1):19–30

Cell membrane permeability and mitochondrial dysfunction-inducing activities in cell-free supernatants from Serpulina hyodysenteriae serotypes 1 and 2. Witters NA, et al. **Comp Immunol Microbiol Infect Dis** 1996 Jun; 19(3):233–44

Contribution of individual tryptophan residues to the structure and activity of theta-toxin (perfringolysin O), a cholesterol-binding cytolysin. Sekino-Suzuki N, et al. **Eur J Biochem** 1996 Nov 1;241(3):941–7

Assembly of Staphylococcus aureus gamma-hemolysin into a pore-forming ring-shaped complex on the surface of human erythrocytes. Sugawara N, et al. **FEBS Lett** 1997 Jun 30;410(2–3):333–7

Interactions between Fusobacterium necrophorum hemolysin, erythrocytes and erythrocyte membranes. Amoako KK, et al. **FEMS Microbiol Lett** 1997 May 1; 150(1):101–6

Association of RTX toxins with erythrocytes. Bauer ME, et al. **Infect Immun** 1996 Nov;64(11):4665–72

SlyA, a transcriptional regulator of Salmonella typhimurium, is required for resistance to oxidative stress and is expressed in the intracellular environment of macrophages. Buchmeier N, et al. **Infect Immun** 1997 Sep;65(9):3725–30

In vitro proteolytic processing and activation of the recombinant precursor of El Tor cytolysin/hemolysin (pro-HlyA) of Vibrio cholerae by soluble hemagglutinin/protease of V. cholerae, trypsin, and other proteases. Nagamune K, et al. **Infect Immun** 1996 Nov; 64(11):4655–8

Listeriolysin O production and pathogenicity of non-growing Listeria monocytogenes stored at refrigeration temperature. Buncic S, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):133–47

Incidence and toxigenicity of Aeromonas hydrophila in seafood. Tsai GJ, et al. **Int J Food Microbiol** 1996 Aug; 31(1–3):121–31

Incomplete activation of Escherichia coli hemolysin (HlyA) due to mutations in the 3' region of hlyC. Guzmán-Verri C, et al. **J Bacteriol** 1997 Sep;179(18):5959–62

Lack of functional complementation between Bordetella pertussis filamentous hemagglutinin and Proteus mirabilis HpmA hemolysin secretion machineries. Jacob-Dubuisson F, et al. **J Bacteriol** 1997 Feb;179(3):775–83

Analysis of the in vivo activation of hemolysin (HlyA) from Escherichia coli. Ludwig A, et al. **J Bacteriol** 1996 Sep; 178(18):5422–30

Studies on the energetics of proaerolysin secretion across the outer membrane of Aeromonas species. Evidence for a requirement for both the protonmotive force and ATP. Letellier L, et al. **J Biol Chem** 1997 Apr 25; 272(17):11109–13

Conformational changes due to membrane binding and channel formation by staphylococcal alpha-toxin. Vécsey-Semjén B, et al. **J Biol Chem** 1997 Feb 28; 272(9):5709–17

Selective growth of thermostable direct hemolysin-producing Vibrio parahaemolyticus in the alimentary tract of a gastropod, Clithon retropictus, at a selected estuary in Japan. Kumazawa NH, et al. **J Vet Med Sci** 1996 Sep;58(9):921–3

Synthesis, maturation and export of the E. coli hemolysin. Koronakis V, et al. **Med Microbiol Immunol (Berl)** 1996 Sep;185(2):65–71 (55 ref.)

Pore-forming properties of proteolytically nicked staphylococcal alpha-toxin: the ion channel in planar lipid bilayer membranes. Krasilnikov OV, et al. **Med Microbiol Immunol (Berl)** 1997 Jun;186(1):53–61

Streptococcus pneumoniae produces a second haemolysin that is distinct from pneumolysin. Canvin JR, et al. **Microb Pathog** 1997 Mar;22(3):129–32

Independent interaction of the acyltransferase HlyC with two maturation domains of the Escherichia coli toxin HlyA. Stanley P, et al. **Mol Microbiol** 1996 May;20(4):813–22

Redistribution of phosphatidylethanolamine at the cleavage furrow of dividing cells during cytokinesis. Emoto K, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12867–72

The structure of Staphylococcus aureus epidermolytic toxin A, an atypic serine protease, at 1.7 A resolution. Cavarelli J, et al. **Structure** 1997 Jun 15;5(6):813–24

Stability and stabilization of Fusobacterium necrophorum hemolysin. Amoako KK, et al. **Vet Microbiol** 1996 May; 50(1–2):149–53

Identification and partial characterization of an Actinomyces pyogenes hemolysin. Funk PG, et al. **Vet Microbiol** 1996 May;50(1–2):129–42

PHARMACOLOGY

Stimulation of gastric acid secretion by cAMP in a novel alpha-toxin-permeabilized gland model. Yao X, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):C61–73

Synthesis of 4- and 5-series leukotrienes in the lung microvasculature challenged with Escherichia coli hemolysin: critical dependence on exogenous free fatty acid supply. Grimminger F, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):317–24

Haemolytic activity of stonustoxin from stonefish (Synanceja horrida) venom: pore formation and the role of cationic amino acid residues. Chen D, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):685–91

Mechanism of action of hemolysin III from Bacillus cereus. Baida GE, et al. **Biochim Biophys Acta** 1996 Oct 23; 1284(2):122–4

Purification, characterization and activities of two hemolytic and antibacterial proteins from coelomic fluid of the annelid Eisenia fetida andrei. Milochau A, et al. **Biochim Biophys Acta** 1997 Jan 4;1337(1):123–32

A mutant cell line resistant to Vibrio parahaemolyticus thermostable direct hemolysin (TDH): its potential in identification of putative receptor for TDH. Tang G, et al. **Biochim Biophys Acta** 1997 May 24;1360(3):277–82

The effects of calcium and other polyvalent cations on channel formation by Escherichia coli alpha-hemolysin in red blood cells and lipid bilayer membranes. Döbereiner A, et al. **Eur J Biochem** 1996 Sep 1;240(2):454–60

Antigen-specific T cell receptor antagonism by antigen-presenting cells treated with the hemolysin of Listeria monocytogenes: a novel type of immune escape. Darji A, et al. **Eur J Immunol** 1997 Jul;27(7):1696–703

Antibacterial and hemolytic activities of linenscin OC2, a hydrophobic substance produced by Brevibacterium linens OC2. Boucabeille C, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):295–301

T-cell anergy induced by antigen presenting cells treated with the hemolysin of Listeria monocytogenes. Darji A, et al. **Immunol Lett** 1997 Jun 1;57(1–3):33–7

Interaction of earthworm hemolysin with lipid membranes requires sphingolipids. Lange S, et al. **J Biol Chem** 1997 Aug 15;272(33):20884–92

Escherichia coli hemolysin and Staphylococcus aureas alpha-toxin potently induce neutrophil adhesion to cultured human endothelial cells. Krüll M, et al. **J Immunol** 1996 Nov 1;157(9):4133–40

Influence of Cys-130 S. aureus alpha-toxin on planar lipid bilayer and erythrocyte membranes. Krasilnikov OV, et al. **J Membr Biol** 1997 Mar 15;156(2):157–72

Permeability increase induced by Escherichia coli hemolysin A in human macrophages is due to the formation of ionic pores: a patch clamp characterization. Menestrina G, et al. **J Membr Biol** 1996 Jan;149(2):113–21

Hemolysate induces structural and functional injury to cultured cerebral endothelial cells. Kwan AL, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Feb; 13(2):67–74

Generation of a membrane-bound, oligomerized pre-pore complex is necessary for pore formation by Clostridium septicum alpha toxin. Sellman BR, et al. **Mol Microbiol** 1997 Feb;23(3):551–8

Pore-forming toxins trigger shedding of receptors for interleukin 6 and lipopolysaccharide. Walev I, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7882–7

Specific antimicrobial and hemolytic activities of 18-residue peptides derived from the amino terminal region of the toxin pardaxin. Thennarasu S, et al. **Protein Eng** 1996 Dec; 9(12):1219–24

Biochemical and physiological characteristics of HlyA, a pore-forming cytolysin of Vibrio cholerae serogroup O1. Sathyamoorthy V, et al. **Toxicon** 1997 Apr;35(4):515–27

Botulinolysin, a thiol-activated hemolysin produced by Clostridium botulinum, inhibits endothelium-dependent relaxation of rat aortic ring. Sugimoto N, et al. **Toxicon** 1997 Jul;35(7):1011–23

PHYSIOLOGY

Inhibition of the transport function of membrane proteins by some substituted phenothiazines in E. coli and multidrug resistant tumor cells. Molnár J, et al. **Anticancer Res** 1997 Jan-Feb;17(1A):481–6

Apolipoprotein B inhibits the hemolytic activity of asp-hemolysin from Aspergillus fumigatus. Fukuchi Y, et al. **Biol Pharm Bull** 1996 Apr;19(4):547–50

Pore-forming properties of the plasmid-encoded hemolysin of enterohemorrhagic Escherichia coli O157:H7. Schmidt H, et al. **Eur J Biochem** 1996 Oct 15;241(2):594–601

Development of antigen-delivery systems, based on the Escherichia coli hemolysin secretion pathway. Gentschev I, et al. **Gene** 1996 Nov 7;179(1):133–40

An Edwardsiella tarda strain containing a mutation in a gene with homology to shlB and hpmB is defective for entry into epithelial cells in culture. Strauss EJ, et al. **Infect Immun** 1997 Sep;65(9):3924–32

The Arcanobacterium (Actinomyces) pyogenes hemolysin, pyolysin, is a novel member of the thiol-activated cytolysin family. Billington SJ, et al. **J Bacteriol** 1997 Oct; 179(19):6100–6

Study of the haemolytic process and receptors of

thermostable direct haemolysin from Vibrio parahaemolyticus. Douet JP, et al. **Res Microbiol** 1996 Nov-Dec;147(9):687-96

THERAPEUTIC USE

Protection of experimentally infected pigs by suilysin, the thiol-activated haemolysin of Streptococcus suis. Jacobs AA, et al. **Vet Rec** 1996 Sep 7;139(10):225-8

TOXICITY

Functional analysis of Serpulina hyodysenteriae hemolysin lytic activity. Hyatt DR, et al. **Adv Exp Med Biol** 1997; 412:259-62

Impact of arachidonic versus eicosapentaenoic acid on exotonin-induced lung vascular leakage: relation to 4-series versus 5-series leukotriene generation. Grimminger F, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):513-9

Bacterial hemolysins and leukotoxins affect target cells by forming large exogenous pores into their plasma membrane: Escherichia coli hemolysin A as a case example. Menestrina G, et al. **Biosci Rep** 1995 Dec;15(6):543-51

HlyA hemolysin of Vibrio cholerae O1 biotype E1 Tor. Identification of the hemolytic complex and evidence for the formation of anion-selective ion-permeable channels. Menzl K, et al. **Eur J Biochem** 1996 Sep 15;240(3):646-54

Membrane attack induced by HlyA, a pore-forming toxin of Vibrio cholerae. Huntley JS, et al. **Hum Exp Toxicol** 1997 Feb;16(2):101-5

Phosphorylation of a 25 kDa protein is induced by thermostable direct hemolysin of Vibrio parahaemolyticus. Yoh M, et al. **Int J Biochem Cell Biol** 1996 Dec; 28(12):1365-9

Structure-function studies of the adenylate cyclase toxin of Bordetella pertussis and the leukotoxin of Pasteurella haemolytica by heterologous C protein activation and construction of hybrid proteins. Westrop G, et al. **J Bacteriol** 1997 Feb;179(3):871-9

Human endothelial cell activation and mediator release in response to the bacterial exotoxins Escherichia coli hemolysin and staphylococcal alpha-toxin. Grimminger F, et al. **J Immunol** 1997 Aug 15;159(4):1909-16

Balance of electrostatic and hydrophobic interactions in the lysis of model membranes by E. coli alpha-haemolysin. Ostolaza H, et al. **J Membr Biol** 1997 Jul 15;158(2):137-45

Production and characterization of monoclonal antibodies against stonustoxin from Synanceja horrida. Yuen R, et al. **Toxicon** 1995 Dec;33(12):1557-64

Haemolytic activities of plant saponins and adjuvants. Effect of Periandra mediterranea saponin on the humoral response to the FML antigen of Leishmania donovani. Santos WR, et al. **Vaccine** 1997 Jun;15(9):1024-9

HEMOLYSIS

see related
ANEMIA, HEMOLYTIC
OSMOTIC FRAGILITY

Lipofuscin product accumulation, insufficient antioxidant defence in erythrocytes and plasma and enhanced susceptibility to oxidative haemolysis after thermal trauma. Bekyarova G, et al. **Acta Chir Plast** 1997;39(2):60-4

The reactivity of taurine with hypochlorous acid and its application for eye drops. Koyama I, et al. **Adv Exp Med Biol** 1996;403:9-18

Does gallstone formation after open cardiac surgery result only from latent hemolysis by replaced valves? [see comments] Azemoto R, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2185-9. Comment in: Am J Gastroenterol 1997 Jun;92(6):1069-70.

Mechanism of intravascular hemolysis in paroxysmal nocturnal hemoglobinuria (PNH). Nakakuma H. **Am J Hematol** 1996 Sep;53(1):22-9 (71 ref.)

Case reports: delayed hemolytic transfusion reaction in sickle cell disease. Syed SK, et al. **Am J Med Sci** 1996 Oct; 312(4):175-81

Prolongation of bleeding time by acute hemolysis in rats: a role for nitric oxide. Wollny T, et al. **Am J Physiol** 1997 Jun;272(6 Pt 2):H2875-84

Regulation of the complement-mediated elimination of red blood cells modified with biotin and streptavidin. Muzykantov VR, et al. **Anal Biochem** 1996 Oct 1; 241(1):109-19

Hemolysis within infusion systems may accelerate adenosine degradation [letter] Demmy TL, et al. **Ann Thorac Surg** 1996 Oct;62(4):1242

Hemolytic activity reevaluation of putative nonpathogenic Listeria monocytogenes strains. Lachica RV. **Appl Environ Microbiol** 1996 Nov;62(11):4293-5

Usefulness of cryohemolysis test in the diagnosis of hereditary spherocytosis. Romero RR, et al. **Arch Med Res** 1997 Summer;28(2):247-51

Relationship between pump speed design and hemolysis in an axial flow blood pump. Anai H, et al. **Artif Organs** 1996 Jun;20(6):564-7

A teaspoon pump for pumping blood with high hydraulic efficiency and low hemolysis potential. Dame D. **Artif Organs** 1996 Jun;20(6):613-7

The method for keeping low perfusion flow weaning from centrifugal pumps: an evaluation of hemolysis in the circulator units. Hachiro Y, et al. **Artif Organs** 1997 Jul; 21(7):710-3

A magnetically suspended and hydrostatically stabilized centrifugal blood pump. Hart RM, et al. **Artif Organs** 1996 Jun;20(6):591-6

Evaluation of hemolysis in a pulsatile assist device for centrifugal pump. Iwaya F, et al. **Artif Organs** 1997 Jul; 21(7):700-3

Hemolysis test of disposable type vibrating flow pump. Kobayashi S, et al. **Artif Organs** 1997 Jul;21(7):691-3

Comparison of centrifugal and roller pump hemolysis rates at low flow. Moon YS, et al. **Artif Organs** 1996 Jun; 20(6):579-81

Comparative hemolysis study of clinically available centrifugal pumps. Naito K, et al. **Artif Organs** 1996 Jun; 20(6):560-3

Hemolytic effect of the secondary vane incorporated into the back side of the impeller. Ohara Y, et al. **Artif Organs** 1997 Jul;21(7):694-9

New method of evaluating sublethal damage to erythrocytes by blood pumps. Shimono T, et al. **Artif Organs** 1996 Jun; 20(6):568-71

Hemolytic characteristics of a pivot bearing supported Gyro centrifugal pump (C1E3) simulating various clinical applications. Takami Y, et al. **Artif Organs** 1996 Sep; 20(9):1042-9

Hemolytic effect of surface roughness of an impeller in a centrifugal blood pump. Takami Y, et al. **Artif Organs** 1997 Jul;21(7):686-90

Effect of surface roughness on hemolysis in a pivot bearing supported Gyro centrifugal pump (C1E3). Takami Y, et al. **Artif Organs** 1996 Nov;20(11):1155-61

Prediction of hemolysis in turbulent shear orifice flow. Tamagawa M, et al. **Artif Organs** 1996 Jun;20(6):553-9

The hemolysis test of the Gyro C1E3 pump in pulsatile mode. Tayama E, et al. **Artif Organs** 1997 Jul;21(7):675-9

Reconsideration of total erythrocyte destruction phenomenon. Tayama E, et al. **Artif Organs** 1997 Jul; 21(7):704-9

Effects of surface roughness on mechanical hemolysis. Umezu M, et al. **Artif Organs** 1996 Jun;20(6):575-8

Tandem operation of a turbo blood pump (BP-80--type centrifugal pump) to reduce hemolysis. Wakisaka Y, et al. **Artif Organs** 1996 Jun;20(6):572-4

Effects of self washout structure on the antithrombogenicity and the hemolytic properties of a centrifugal pump. Wakisaka Y, et al. **Artif Organs** 1997 Feb;21(2):148-53

The role of the centrifugal pump in hemolysis during neonatal extracorporeal support. McDonald JV, et al. **ASAIO J** 1997 Jan-Feb;43(1):35-8

Effect of surface roughness on hemolysis in a centrifugal blood pump. Takami Y, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M858-62

A dynamic method for setting roller pumps nonocclusively reduces hemolysis and predicts retrograde flow. Tamari Y, et al. **ASAIO J** 1997 Jan-Feb;43(1):39-52

The hemolytic activity of homocysteine is increased by the activated polymorphonuclear leukocytes. Olinescu R, et al. **Biochem Biophys Res Commun** 1996 Sep 24;226(3):912-6

Selective lysis of bacteria but not mammalian cells by diastereomers of melittin: structure-function study. Oren Z, et al. **Biochemistry** 1997 Feb 18;36(7):1826-35

Calcium-induced bilirubin-dependent hemolysis of human erythrocytes. Ali MK, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):124-30

Mechanism of action of hemolysin III from Bacillus cereus. Baida GE, et al. **Biochim Biophys Acta** 1996 Oct 23; 1284(2):122-4

Group II phospholipases A2 are indirectly cytolytic in the presence of exogenous phospholipid. Vadas P. **Biochim Biophys Acta** 1997 Jun 2;1346(2):193-7

Effect of mercuric ions on human erythrocytes. Relationships between hypotonic swelling and cell aggregation. Zolla L, et al. **Biochim Biophys Acta** 1997 Sep 4;1328(2):273-80

An investigation into the ability of C-terminal homologues of Escherichia coli low molecular mass penicillin-binding proteins 4, 5 and 6 to undergo membrane interaction. Harris F, et al. **Biochimie** 1997 Apr;79(4):171-4

Rapid engraftment after allogeneic ABO-incompatible peripheral blood progenitor cell transplantation complicated by severe hemolysis. Bornhäuser M, et al. **Bone Marrow Transplant** 1997 Feb;19(3):295-7

Early and fatal immune haemolysis after so-called 'minor' ABO-incompatible peripheral blood stem cell allotransplantation. Oziel-Taieb S, et al. **Bone Marrow Transplant** 1997 Jun;19(11):1155-6

The effects of electric fields on photosensitized erythrocytes: possible enhancement of photodynamic activation. Ward T, et al. **Cancer Lett** 1996 Aug 23;106(1):69-74

Severe hemolysis following partial coil-occlusion of patent ductus arteriosus. Henry G, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):410-2 (8 ref.)

A case of severe intravascular hemolysis following coil occlusion of the ductus [letter] Kapoor A. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):467

Hemolysis following coil embolization of a patent ductus arteriosus. Shim D, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):287-90

Abdominal pain and massive intravascular hemolysis in a 47-year-old man. Pun KC, et al. **Chest** 1996 Nov; 110(5):1353-5

Photo quiz. Hemolysis induced by Clostridium perfringens. Singh A. **Clin Infect Dis** 1996 Feb;22(2):221, 361

Cell-mediated haemolytic activity of haemolymph from the Colorado potato beetle (Leptinotarsa decemlineata Say.) Glupov VV. **Cytobios** 1996;86(344):35-51

Study of the interference of haemolysis in the determination of creatinine in the Technicon DAX-72 (Bayer) [letter; comment] Guix P, et al. **Eur J Clin Chem Clin Biochem** 1997 Feb;35(2):115-6. Comment on: Eur J Clin Chem Clin Biochem 1993 Dec;31(12):875-96.

Requirements for antibacterial and hemolytic activities in the bovine neutrophil derived 13-residue peptide indolicidin. Subbalakshmi C, et al. **FEBS Lett** 1996 Oct 14;395(1):48-52

Kupffer cell erythrophagocytosis and graft-versus-host hemolysis in liver transplantation. Clavien PA, et al. **Gastroenterology** 1996 Jun;110(6):1891-6

Early implantation of multiple spring coils for severe haemolysis after incomplete transcatheter occlusion of persistent arterial duct. Cheung YF, et al. **Heart** 1997 May; 77(5):477-8

Massive delayed hemolysis following peripheral blood stem cell transplantation with minor ABO incompatibility. Laurencet FM, et al. **Hematol Cell Ther** 1997 Jun; 39(3):159-62

Glucose oxidase-induced lysis of erythrocytes. Sen T, et al. **Indian J Exp Biol** 1995 Jan;33(1):75-6

CAMP test for the identification of Vibrio cholerae 0139. George V, et al. **Indian J Med Res** 1996 Jan;103:55-7

Mitral valve repair-related hemolysis: a report of two cases. Brandon Bravo Bruinsma GJ, et al. **Int J Cardiol** 1997 Aug 8;60(3):317-20

Acute hemolysis related to consumption of fava beans: a case study and medical nutrition therapy approach. Hampl JS, et al. **J Am Diet Assoc** 1997 Feb;97(2):182-3

Tripartite hemolysin BL from Bacillus cereus. Hemolytic analysis of component interactions and a model for its characteristic paradoxical zone phenomenon. Beecher DJ, et al. **J Biol Chem** 1997 Jan 3;272(1):233-9

Modulation of structure and antibacterial and hemolytic activity by ring size in cyclic gramicidin S analogs. Kondejewski LH, et al. **J Biol Chem** 1996 Oct 11; 271(41):25261-8

Carbohydrate-mediated regulation of interaction of Vibrio cholerae hemolysin with erythrocyte and phospholipid vesicle. Saha N, et al. **J Biol Chem** 1997 Jan 3;272(1):162-7

Impact of oxygenator design on hemolysis, shear stress, and white blood cell and platelet counts. De Somer D, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):884-9

Haemolysis in hepatitis A virus infections coinciding with the occurrence of autoantibodies against triosephosphate isomerase and the reactivation of latent persistent Epstein-Barr virus infection. Ritter S, et al. **J Med Virol** 1996 Nov;50(3):272-5

Massive hemolysis: a rare complication of transcatheter coil embolization. Duszak R Jr, et al. **J Vasc Interv Radiol** 1996 Jul-Aug;7(4):603-6

Hemolysate inhibits L-type Ca2+ channels in rat basilar smooth muscle cells. Kim CJ, et al. **J Vasc Res** 1996 May-Jun;33(3):258-64

Copper poisoning in rabbits associated with acute intravascular hemolysis. Cooper GL, et al. **J Vet Diagn Invest** 1996 Jul;8(3):394-6

66-year-old woman with fever and hemolysis. Jones TK, et al. **Mayo Clin Proc** 1996 Oct;71(10):1007-10

Possible selective elimination of red blood cells under the influence of colloidal silica. Gerashchenko BI, et al. **Med Hypotheses** 1996 Jul;47(1):69-70

Trichomonas vaginalis haemolysis: pH regulates a contact-independent mechanism based on pore-forming proteins. Fiori PL, et al. **Microb Pathog** 1996 Feb; 20(2):109-18

Induction of haemolytic activity in Escherichia coli by the slyA gene product. Oscarsson J, et al. **Mol Microbiol** 1996 Apr;20(1):191-9

Tyrosine phosphorylation and [Ca2+]i elevation induced by hemolysate in bovine endothelial cells: implications for cerebral vasospasm. Marton LS, et al. **Neurol Res** 1996 Aug;18(4):349-53

Rhesus isoimmunization: increased hemolysis during early infancy. Hayde M, et al. **Pediatr Res** 1997 May;41(5):716-21

Neurone-specific enolase and Sangtec 100 assays during cardiac surgery: Part III—Dose haemolysis affect their accuracy? Gao F, et al. **Perfusion** 1997 May;12(3):171-7

Study of the haemolytic process and receptors of thermostable direct haemolysin from Vibrio parahaemolyticus. Douet JP, et al. **Res Microbiol** 1996 Nov-Dec;147(9):687-96

Blood cardioplegia does not increase haemolysis. A comparison between crystalloid and blood cardioplegia in coronary artery bypass grafting. Rinne TT. **Scand J Thorac Cardiovasc Surg** 1996;30(2):65-9

The sickle cell hemolytic transfusion reaction syndrome [see comments] Petz LD, et al. **Transfusion** 1997 Apr; 37(4):382-92. Comment in: Transfusion 1997 Apr;37(4):357-61.

Simultaneous occurrence of posttransfusion purpura due to anti-HPA-1a and a delayed transfusion reaction due to anti-Jk(b) [letter] Swanson JL, et al. **Transfusion** 1997 Apr; 37(4):449-50

Leukocyte phenotypic changes in an in vitro model of ABO hemolytic transfusion reaction. Ugani M, et al. **Transfusion** 1997 Sep;37(9):904-9

Hemolysis of albunex-supplemented, 40% hematocrit human erythrocytes in vitro by 1-MHz pulsed ultrasound: acoustic

pressure and pulse length dependence. Brayman AA, et al. **Ultrasound Med Biol** 1996;22(7):927–38

Hemolysis in vivo from exposure to pulsed ultrasound. Dalecki D, et al. **Ultrasound Med Biol** 1997;23(2):307–13

Minimal static excess pressure minimises the effect of extracorporeal shock waves on cells and reduces it on gallstones. Delius M. **Ultrasound Med Biol** 1997;23(4):611–7

Correlation of ultrasound-induced hemolysis with cavitation detector output in vitro. Everbach EC, et al. **Ultrasound Med Biol** 1997;23(4):619–24

Ultrasonically induced hemolysis at high cell and gas body concentrations in a thin-disc exposure chamber. Miller DL, et al. **Ultrasound Med Biol** 1997;23(4):625–33

Contrast-agent gas bodies enhance hemolysis induced by lithotripter shock waves and high-intensity focused ultrasound in whole blood. Miller DL, et al. **Ultrasound Med Biol** 1996;22(8):1089–95

Comparative sensitivity of human erythrocytes and lymphocytes to sonolysis by 1-MHz ultrasound. Miller MW, et al. **Ultrasound Med Biol** 1997;23(4):635–8

Erythrocyte hemolysis by organic tin and lead compounds. Kleszcyńska H, et al. **Z Naturforsch [C]** 1997 Jan–Feb; 52(1–2):65–9

Evaluation of the synergistic haemolysis (CAMP-like) test in the identification of motile, mesophilic Aeromonas species. Gubash SM. **Zentralbl Bakteriol** 1997 Jun; 286(1):41–5

[Pancytopenia with hemolysis of undetermined mechanism related to alcoholism [letter]] Menecier P, et al. **Presse Med** 1996 Oct 26;25(32):1563 **(Fre)**

[Importance of the specific surface area in the study of the biological effects of dusts of industrial use] Governa M, et al. **G Ital Med Lav** 1995 Jan–Nov;17(1–6):105–9 (Eng. Abstr.) **(Ita)**

[Severe hemolysis and sudden death in a 62-year-old man (clinical conference)] **Rinsho Byori** 1997 Jun;45(6):535–56 (Eng. Abstr.) **(Jpn)**

[Kinetics of acid lysis of erythrocytes in the presence of ligands of various plasma membrane integral proteins] Trikulenko AV, et al. **Biofizika** 1996 Nov–Dec; 41(6):1275–7 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Inhibitory effect of estrogens on the oxidative hemolysis induced by 2-amidinopropane hydrochloride, a free radical generator. Vibert-Li JL, et al. **Acta Med Okayama** 1996 Jun;50(3):125–30

Intravenous immune globulin in neonatal immune hemolytic disease: does it reduce hemolysis? Hammerman C, et al. **Acta Paediatr** 1996 Nov;85(11):1351–3

Antifungal and hemolytic activity of aerial parts of alfalfa (Medicago) species in relation to saponin composition. Jurzysta M, et al. **Adv Exp Med Biol** 1996;404:565–74

Hemolytic activity of triterpene glycosides from the Dendrochirotida order holothurian. Kalinin VI, et al. **Adv Exp Med Biol** 1996;404:557–64

Severe intravascular hemolysis associated with interferon treatment for chronic myeloid leukemia [letter] Tuckfield A, et al. **Am J Hematol** 1996 Sep;53(1):52–3

Henna (Lawsonia inermis Linn.) inducing haemolysis among G6PD-deficient newborns. A new clinical observation. Kandil HH, et al. **Ann Trop Paediatr** 1996 Dec;16(4):287–91

Stimulation of haemolytic activity of sea anemone cytolysins by 8-anilino-1-naphthalenesulphonate. Khoo HE, et al. **Biochem Biophys Res Commun** 1997 Mar 17;232(2):422–6

Haemolytic activity of stonustoxin from stonefish (Synanceja horrida) venom: pore formation and the role of cationic amino acid residues. Chen D, et al. **Biochem J** 1997 Aug 1;325 (Pt 3):685–91

Apolipoprotein B inhibits the hemolytic activity of asp-hemolysin from Aspergilius fumigatus. Fukuchi Y, et al. **Biol Pharm Bull** 1996 Apr;19(4):547–50

Suppressive effect of FC-43 perfluorocarbon emulsion on enhanced oxidative haemolysis in the early postburn phase. Bekyarova G, et al. **Burns** 1997 Mar;23(2):117–21

In vitro effects of an azo compound on the haemolysis and unsaturated fatty acids of red blood cells. Pekiner B, et al. **Clin Chim Acta** 1997 Jul 25;263(2):157–64

Decreased HbA1c levels due to sulfonamide-induced hemolysis in two IDDM patients. Tack CJ, et al. **Diabetes Care** 1996 Jul;19(7):775–6

Effects of group-A streptolysin O on neonatal and adult red blood cell deformability and haemolysis. Pöschl JM, et al. **Eur J Clin Invest** 1996 Jun;26(6):461–4

Hydrophobicity, hydrophobic moment and angle subtended by charged residues modulate antibacterial and haemolytic activity of amphipathic helical peptides. Dathe M, et al. **FEBS Lett** 1997 Feb 17;403(2):208–12

Peroxynitrite-induced hemolysis of human erythrocytes and its inhibition by antioxidants. Kondo H, et al. **FEBS Lett** 1997 Aug 18;413(2):236–8

Formation of free radicals and protein mixed disulfides in rat red cells exposed to dapsone hydroxylamine. Bradshaw TP, et al. **Free Radic Biol Med** 1997;22(7):1183–93

Effect of aromatic nitroxides on hemolysis of human erythrocytes entrapped with isolated hemoglobin chains. Gabbianelli R, et al. **Free Radic Biol Med** 1997;23(2):278–84

Protection of oxidative hemolysis by demethyldiisoeugenol in normal and beta-thalassemic red blood cells. Ko FN, et al. **Free Radic Biol Med** 1997;22(1–2):215–22

Sequence of toxic events in arsine-induced hemolysis in vitro: implications for the mechanism of toxicity in human erythrocytes. Winski SL, et al. **Fundam Appl Toxicol** 1997 Aug;38(2):123–8

Isolation and characterisation of bioactive steroid from a prawn. Indap MM, et al. **Indian J Exp Biol** 1996 Jun; 34(6):588–9

Ochratoxin induced hemolysis in rabbits. Zofair SM, et al. **Indian J Exp Biol** 1996 Jun;34(6):592–3

Site-specific mutagenesis of Clostridium perfringens alpha-toxin: replacement of Asp-56, Asp-130, or Glu-152 causes loss of enzymatic and hemolytic activities. Nagahama M, et al. **Infect Immun** 1997 Aug;65(8):3489–92

A repertoire of novel antibacterial diastereomeric peptides with selective cytolytic activity. Oren Z, et al. **J Biol Chem** 1997 Jun 6;272(23):14643–9

Factors affecting production of haemolysin by strains of Vibrio fluvialis. Rahim Z, et al. **J Diarrhoeal Dis Res** 1996 Jun;14(2):113–6

Protective action of some Cu(II) complexes against photohemolysis induced by m. chloroperbenzoic acid. el-Naggar MM. **J Inorg Biochem** 1997 Mar;65(4):263–6

Minimal haemolysis in blood co-infused with amino acid and dextrose solutions in vitro. Jankov RP, et al. **J Paediatr Child Health** 1997 Jun;33(3):250–2

Does vitamin C cause hemolysis in premature newborn infants? Results of a multicenter double-blind, randomized, controlled trial. Doyle J, et al. **J Pediatr** 1997 Jan; 130(1):103–9

Antimicrobial and hemolytic activities of crabrolin, a 13-residue peptide from the venom of the European hornet, Vespa crabro, and its analogs. Krishnakumari V, et al. **J Pept Res** 1997 Aug;50(2):88–93

The influence of 2-hydroxypropyl-beta-cyclodextrin on the haemolysis induced by bile acids. Panini R, et al. **J Pharm Pharmacol** 1996 Jun;48(6):641–4

Mechanism of alpha-cyclodextrin-induced hemolysis. 1. The two-step extraction of phosphatidylinositol from the membrane. Fauvelle F, et al. **J Pharm Sci** 1997 Aug; 86(8):935–43

Hemolysis after acetaminophen overdose in a patient with glucose-6-phosphate dehydrogenase deficiency. Wright RO, et al. **J Toxicol Clin Toxicol** 1996;34(6):731–4 (16 ref.)

Oxidation of erythrocyte protein and lipid, and hemolysis in rabbit red blood cells treated with benzo[a]pyrene or adriamycin. Lee SK, et al. **J Toxicol Environ Health** 1997 Aug 29;51(6):557–69

Photodynamic effects on human and chicken erythrocytes studied with microirradiation and confocal laser scanning microscopy. König K, et al. **Lasers Surg Med** 1996; 19(3):284–98

Inhibitory effects of jasmine green tea epicatechin isomers on free radical-induced lysis of red blood cells. Zhang A, et al. **Life Sci** 1997;61(4):383–94

Food restriction increases the protection of erythrocytes against the hemolysis induced by peroxyl radicals. Pieri C, et al. **Mech Ageing Dev** 1996 May 24;87(1):15–23

Suppression of delayed-type hypersensitivity and hemolysis induced by previously photooxidized psoralen: effect of fluence rate and psoralen concentration. Kyagova AA, et al. **Photochem Photobiol** 1997 Apr;65(4):694–700

Interaction of ultraviolet-B-rich and ultraviolet-A-rich radiation in ketoprofen-induced photohemolysis. Eberlein-König B, et al. **Photodermatol Photoimmunol Photomed** 1996 Jun; 12(3):109–13

Photoaugmentation effects demonstrated in vitro. Selvaag E. **Photodermatol Photoimmunol Photomed** 1996 Dec; 12(6):227–32

Effect of bilirubin on erythrocyte shape and haemolysis, under hypotonic, aggregating or non-aggregating conditions, and correlation with cell age. Brites D, et al. **Scand J Clin Lab Invest** 1997 Jul;57(4):337–49

Folate and homocysteine status and haemolysis in patients treated with sulphasalazine for arthritis. Krogh Jensen M, et al. **Scand J Clin Lab Invest** 1996 Aug;56(5):421–9

Addition of L-carnitine to additive solution-suspended red cells stored at 4 degrees C reduces in vitro hemolysis and improves in vivo viability. Arduini A, et al. **Transfusion** 1997 Feb;37(2):166–74

Anticomplement activity of lysine complexes of propolis phenolic constituents and their synthetic analogs. Georgieva P, et al. **Z Naturforsch [C]** 1997 Jan–Feb; 52(1–2):60–4

[Lipid peroxidation and hemolysis in HES cryopreserved erythrocytes] Langer R, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:111–6 (Eng. Abstr.) **(Ger)**

[The effects of administration of haptoglobin for hemolysis by extracorporeal circulation] Kanamori Y, et al. **Rinsho Kyobu Geka** 1989 Oct;9(5):463–7 (Eng. Abstr.) **(Jpn)**

[Effects of exocorpol and haptoglobin on hemolysis during ECC] Nagamine S, et al. **Rinsho Kyobu Geka** 1989 Aug; 9(4):381–4 (Eng. Abstr.) **(Jpn)**

[Effects of photodegradation of nifedipine on dog erythrocyte membranes] Hayase N, et al. **Yakugaku Zasshi** 1997 Apr;117(4):202–10 (Eng. Abstr.) **(Jpn)**

[A conjugate of ristomycin A ristosaminylaglycon-polymyxin B: the spectrum of its antimicrobial action and its membranolytic activity] Polin AN, et al. **Antibiot Khimioter** 1997;42(5):24–8 (Eng. Abstr.) **(Rus)**

[Heterogeneity of pores formed in erythrocyte membrane by lipophilic hemolysins] Chernitskiĭ EA, et al. **Biofizika** 1996 Nov–Dec;41(6):1270–4 (Eng. Abstr.) **(Rus)**

[Effect of Fe2+ ions on the hemolysis induced by products of psoralen photo-oxidation] Zhuravel' NN, et al. **Biofizika** 1997 Jan–Feb;42(1):182–6 (Eng. Abstr.) **(Rus)**

[Modulation of melittin-induced hemolysis of erythrocytes] Rudenko SV, et al. **Biokhimiia** 1996 Dec;61(12):2116–24 (Eng. Abstr.) **(Rus)**

GENETICS

Isolation and characterization of hemolytic genes from Actinobacillus actinomycetemcomitans. Kato T, et al. **FEMS Microbiol Lett** 1996 Oct 1;143(2–3):217–21

Hns mutant unveils the presence of a latent haemolytic activity in Escherichia coli K-12 [letter] Gomez-Gomez JM, et al. **Mol Microbiol** 1996 Feb;19(4):909–10

IMMUNOLOGY

Cytokines as intercellular signals in hemolytic transfusion reactions. Davenport RD. **Biol Signals** 1996 Jul–Aug; 5(4):240–5 (20 ref.)

The serum resistance of malaria-infected erythrocytes. Kawamoto Y, et al. **Immunology** 1997 May;91(1):7–12

Severe hemolysis caused by graft-derived anti-B production after lung transplantation. Taaning E, et al. **J Heart Lung Transplant** 1996 Aug;15(8):850–1

Delayed hemolytic transfusion reactions in sickle cell disease: simultaneous destruction of recipients' red cells [see comments] King KE, et al. **Transfusion** 1997 Apr; 37(4):376–81. Comment in: Transfusion 1997 Apr;37(4):357–61.

IgA red cell autoantibodies and autoimmune hemolysis. Sokol RJ, et al. **Transfusion** 1997 Feb;37(2):175–81

Anti-D testing in intravenous immunoglobulins: shouldn't it be considered [letter] Pisani G, et al. **Vox Sang** 1996; 71(2):132

[Immunological effects of erythrocyte and leukocyte transfusion. Work Group Blood Group Serology of the Medical Advisory Commission of the College for Blood Transfusion of the Netherlands Red Cross] Brand A, et al. **Ned Tijdschr Geneeskd** 1997 Jan 18;141(3):136–40 (36 ref.) (Eng. Abstr.) **(Dut)**

[Immuno-hemolytic transfusion reactions. II Physiopathologic basis and diagnosis] Le Pennec PY, et al. **Transfus Clin Biol** 1996;3(3):149–55 (Eng. Abstr.) **(Fre)**

[Severe hemolysis related to an association of erythrocyte allo- and autoantibodies in a thalassemia patients] Mizon P, et al. **Transfus Clin Biol** 1996;3(4):257–61 (Eng. Abstr.) **(Fre)**

[Immuno-hemolytic transfusion accidents. I. General remarks] Rouger P. **Transfus Clin Biol** 1996;3(3):145–7 (Eng. Abstr.) **(Fre)**

[Immuno-hemolytic transfusion reactions. IV. Analysis, risks and prevention] Tissier AM, et al. **Transfus Clin Biol** 1996; 3(3):167–80 (148 ref.) (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

Complement-inhibiting activity of human seminal plasma and semen quality. Chowdhury NA, et al. **Arch Androl** 1996 Mar-Apr;36(2):109–18

Entamoeba histolytica: kinetics of hemolytic activity, erythrophagocytosis and digestion of erythrocytes. Mora-Galindo J, et al. **Arch Med Res** 1997;28 Spec No:200–1

Hemolysis in different centrifugal pumps. Kawahito K, et al. **Artif Organs** 1997 Apr;21(4):323–6

Hemolysis in membrane plasma separators: is it caused by filter or user? [editorial] Nosé Y. **Artif Organs** 1996 Sep; 20(9):975

Eccentric inlet port of the pivot bearing supported Gyro centrifugal pump. Takami Y, et al. **Artif Organs** 1997 Apr; 21(4):312–7

Hemolytic effects of surface roughness of a pump housing in a centrifugal blood pump. Takami Y, et al. **Artif Organs** 1997 May;21(5):428–32

Paroxysmal nocturnal hemoglobinuria (PNH): mechanism of intravascular hemolysis. Nakakuma H, et al. **Crit Rev Oncol Hematol** 1996 Nov;24(3):213–29 (191 ref.)

Intravascular haemolysis in hypertrophic cardiomyopathy [letter] Lambert M, et al. **Eur Heart J** 1996 Oct; 17(10):1601–2

Effect of P2-purinoceptor antagonists on hemolysate-induced and adenosine 5'-triphosphate-induced contractions of dog basilar artery in vitro. Sima B, et al. **Neurosurgery** 1996 Oct;39(4):815–21; discussion 821–2

Lysis of human red blood cells 1: Effect of contact time on water induced hemolysis. Krzyzaniak JF, et al. **PDA J Pharm Sci Technol** 1996 Jul–Aug;50(4):223–6

Differences in blood activation related to roller/centrifugal pumps and heparin-coated/uncoated surfaces in a cardiopulmonary bypass model circuit. Moen O, et al. **Perfusion** 1996 Mar;11(2):113–23

Serum hemolytic and bactericidal activity in breast and formula-fed infants. Barriga C, et al. **Rev Esp Fisiol** 1995 Dec;51(4):213–8

Crowding stress induces changes in serum haemolytic and agglutinating activity in the gilthead sea bream Sparus

aurata. Tort L, et al. **Vet Immunol Immunopathol** 1996 May; 51(1–2):179–88

[In vitro evaluation of hemolytic effects with use of infusion pumps with finger peristaltic action of blood pumping] Lerche D, et al.
Anasthesiol Intensivmed Notfallmed Schmerzther 1996 Nov; 31(9):568–72 (Eng. Abstr.) **(Ger)**

[Bone marrow morphology and various hemolytic markers in growing rats with alimentary lead deficiency] Eberle J, et al. **Z Ernahrungswiss** 1996 Dec;35(4):332–40 (Eng. Abstr.) **(Ger)**

[Molecular basis and pathophysiology of red cell enzymopathies] Kanno H. **Nippon Rinsho** 1996 Sep; 54(9):2382–9 (27 ref.) (Eng. Abstr.) **(Jpn)**

[Mechanisms for the enhanced red cell destruction in hemoglobinopathy] Ohba Y. **Nippon Rinsho** 1996 Sep; 54(9):2376–81 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Mechanisms of enhanced erythrocyte destruction in patients with erythrocyte membrane disorders] Yasunaga M, et al. **Nippon Rinsho** 1996 Sep;54(9):2390–6 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Pathogenesis of erythrocyte destruction in autoimmune hemolytic anemia] Yatomi Y. **Nippon Rinsho** 1996 Sep; 54(9):2397–401 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Search for correlations between parameters of the kinetics of acid hemolysis of erythrocytes and the functional state of the body] Golenda IL, et al. **Fiziol Cheloveka** 1996 Jul–Aug;22(4):130–6 **(Rus)**

[Age-related dynamics of the blood clinical picture and acid hemolysis according to data of automated rapid-analysis in Kemerovo] Ivanov VI, et al. **Fiziol Cheloveka** 1996 Nov–Dec;22(6):76–81 **(Rus)**

RADIATION EFFECTS

Effect of postirradiation treatment on the radiation-induced haemolysis of human erythrocytes. Soszyński M, et al.
Int J Radiat Biol 1997 Mar;71(3):337–43

Molecular mechanism of drug photosensitization: VIII. Effect of inorganic ions on membrane damage photosensitized by naproxen. Giuffrida S, et al.
J Inorg Biochem 1996 Sep;63(4):253–63

Interaction of ultraviolet-B-rich and ultraviolet-A-rich radiation in ketoprofen-induced photohemolysis. Eberlein-König B, et al.
Photodermatol Photoimmunol Photomed 1996 Jun; 12(3):109–13

Photohemolytic potency of oral antidiabetic drugs in vitro: effects of antioxidants and a nitrogen atmosphere. Selvaag E. **Photodermatol Photoimmunol Photomed** 1996 Aug; 12(4):166–70

Photoaugmentation effects demonstrated in vitro. Selvaag E. **Photodermatol Photoimmunol Photomed** 1996 Dec; 12(6):227–32

Inhibition of thiazide photohemolysis in vitro by antioxidants and a nitrogen atmosphere. Selvaag E.
Photodermatol Photoimmunol Photomed 1996 Oct; 12(5):211–5

[Effects of photodegradation of nifedipine on dog erythrocyte membranes] Hayase N, et al.
Yakugaku Zasshi 1997 Apr;117(4):202–10 (Eng. Abstr.) **(Jpn)**

HEMOLYTIC DISEASE OF NEWBORN see **ERYTHROBLASTOSIS, FETAL**

HEMOLYTIC PLAQUE TECHNIQUE

Cellular basis for elevated prolactin secretion during incubation behavior in Bantam chickens: analysis by reverse hemolytic plaque assay. Lopez ME, et al. **Biol Reprod** 1996 Apr;54(4):826–33

Plaque-forming cell responses and antibody titers following injection of sheep red blood cells in nonstressed, acute, and/or chronically stressed handled and nonhandled animals. Bhatnagar S, et al. **Dev Psychobiol** 1996 Mar; 29(2):171–81

HEMOLYTIC TITRATION ASSAY see **COMPLEMENT HEMOLYTIC ACTIVITY ASSAY**

HEMOLYTIC-UREMIC SYNDROME

Haemolytic-uraemic syndrome: of sausages and legislation [editorial; comment] Beers M.
Aust N Z J Public Health 1996 Oct;20(5):453–5. Comment on: Aust N Z J Public Health 1996 Oct;20(5):457–62. Comment on: Aust N Z J Public Health 1996 Oct;20(5):462–6.

Apheresis in grade 4 bone marrow transplant associated thrombotic microangiopathy: a case series. Dua A, et al.
J Clin Apheresis 1996;11(4):176–84 (39 ref.)

Typical and atypical hemolytic uremic syndrome. Proesmans W. **Kidney Blood Press Res** 1996;19(3–4):205–8 (15 ref.)

[Hemolytic uremic syndrome] Nakajima M, et al.
Nippon Naika Gakkai Zasshi 1997 Jun 10;86(6):929–33 **(Jpn)**

BLOOD

Plasma von Willebrand Factor Antigen (vWF:AG) and thrombomodulin (TM) levels in Adult Thrombotic Thrombocytopenic Purpura/Hemolytic Uremic Syndromes (TTP/HUS) and bone marrow transplant-associated thrombotic microangiopathy (BMT-TM). Zeigler ZR, et al. **Am J Hematol** 1996 Dec; 53(4):213–20

Plasmatic parameters of coagulation activation in thrombotic microangiopathy. Sagripanti A, et al.
Biomed Pharmacother 1996;50(8):357–62

Thrombotic thrombocytopenic purpura and sporadic hemolytic-uremic syndrome plasmas induce apoptosis in restricted lineages of human microvascular endothelial cells. Mitra D, et al. **Blood** 1997 Feb 15;89(4):1224–34

Abnormal histograms of platelets and spuriously normalizing platelet counts by Sysmex cell counters in hemolytic uremic syndrome due to Escherichia coli O157:H7 infection [letter] Komiyama Y, et al. **Thromb Haemost** 1997 Jun;77(6):1220–1

CHEMICALLY INDUCED

Thrombotic microangiopathy associated with alpha-interferon therapy for chronic myelocytic leukemia. Honda K, et al. **Am J Kidney Dis** 1997 Jul;30(1):123–30

Cyclosporine-associated thrombotic microangiopathy/hemolytic uremic syndrome following kidney and kidney-pancreas transplantation [see comments] Young BA, et al. **Am J Kidney Dis** 1996 Oct;28(4):561–71 (62 ref.). Comment in: Am J Kidney Dis 1997 May;29(5):813–4.

Quinine-induced hemolytic uremic syndrome. McDonald SP, et al. **Clin Nephrol** 1997 Jun;47(6):397–400 (21 ref.)

Haemolytic uraemic syndrome in a patient with lung cancer: further evidence for a toxic interaction between mitomycin-C and tamoxifen. Ellis PA, et al.
Clin Oncol (R Coll Radiol) 1996;8(6):402–3

Prognostic factors and early resumption of cyclosporin A in renal allograft recipients with thrombotic microangiopathy and hemolytic uremic syndrome. Wiener Y, et al. **Clin Transplant** 1997 Jun;11(3):157–62

Mitomycin-C induced hemolytic uremic syndrome: a case report and literature review. Wu DC, et al.
Jpn J Clin Oncol 1997 Apr;27(2):115–8 (27 ref.)

The successful conversion to Tacrolimus (FK506) of a renal transplant recipient with cyclosporin-induced haemolytic-uraemic syndrome. Richardson D, et al.
Nephrol Dial Transplant 1996 Dec;11(12):2498–500

Hemolytic uremic syndrome/thrombotic thrombocytopenic purpura in a patient with Behçet's disease treated with cyclosporin [letter] Docci D, et al. **Nephron** 1997; 75(3):356–7

The reproducibility of cyclosporin-induced hemolytic uremic syndrome in a renal allograft recipient [letter] Ok E, et al. **Nephron** 1996;74(1):238

COMPLICATIONS

Chronic subdural haematoma and Streptococcus pneumoniae-associated haemolytic-uraemic syndrome [letter] Sajjanhar T, et al. **Acta Paediatr** 1996 Sep; 85(9):1135–6

Helical CT findings of acute renal cortical necrosis in hemolytic uremic syndrome [letter] Yoon HK, et al.
AJR Am J Roentgenol 1997 Sep;169(3):917

The hemolytic uremic syndrome presenting as bilateral leg ischemia. Takino M, et al. **Am J Emerg Med** 1997 Jul; 15(4):365–7

Does treatment of bloody diarrhea due to Shigella dysenteriae type 1 with ampicillin precipitate hemolytic uremic syndrome? Bin Saeed AA, et al.
Emerg Infect Dis 1995 Oct–Dec;1(4):134–7

Scleroderma renal crisis complicated by hemolytic uremic syndrome in a case of elderly onset systemic sclerosis. Yamanaka K, et al. **J Dermatol** 1997 Mar;24(3):184–8

Acute renal failure in the paediatric intensive care unit. Wong W, et al. **N Z Med J** 1996 Dec 13;109(1035):459–61

Membranoproliferative glomerulonephritis and haemolytic-uraemic syndrome in a patient with congenital chloride diarrhoea. Mattoo TK, et al.
Nephrol Dial Transplant 1996 Dec;11(12):2482–4

Sjögren's syndrome associated with haemolytic-uraemic syndrome as the presenting clinical manifestation. Settefrati N, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2316–9

Continuous hemofiltration in children with abdominal complications of hemolytic-uremic syndrome [letter] Cavagnaro F, et al. **Nephron** 1996;74(2):433–4

Development of focal segmental sclerosis and hyalinosis in hemolytic uremic syndrome. Caletti MG, et al.
Pediatr Nephrol 1996 Dec;10(6):687–92

Haemolytic uraemic syndrome superimposed on acute glomerulonephritis [letter] Proesmans W.
Pediatr Nephrol 1996 Oct;10(5):679

Long-term neurological sequelae of hemolytic-uremic syndrome: a preliminary report. Qamar IU, et al.
Pediatr Nephrol 1996 Aug;10(4):504–6

Cardiomyopathy: a late complication of hemolytic uremic syndrome. Walker AM, et al. **Pediatr Nephrol** 1997 Apr; 11(2):221–2

Acute renal failure due to hemolytic uremic syndrome in adult patients. Sens YA, et al. **Ren Fail** 1997 Mar; 19(2):279–82

Primary Sjögren's syndrome complicated by hemolytic uremic syndrome. Agapitos E, et al.
Scand J Rheumatol 1996;25(4):263–5

Thrombotic microangiopathy during pregnancy. McCrae KR, et al. **Semin Hematol** 1997 Apr;34(2):148–58 (99 ref.)

[Digestive manifestations in hemolytic uremic syndrome in children] Bernard A, et al. **Arch Pediatr** 1996 Jun; 3(6):533–40 (Eng. Abstr.) **(Fre)**

[Ischemic colitis disclosing neoplastic microangiopathy (letter)] Baty V, et al. **Gastroenterol Clin Biol** 1996; 20(11):1028–9 **(Fre)**

[Fever, acute colitis and renal insufficiency in a 44-year-old woman] Klisnick A, et al. **Rev Med Interne** 1997;18 Suppl 3:305s–307s **(Fre)**

[A case of fatal hemolytic-uremic syndrome with central nervous system manifestations] Iwanowski L, et al.
Neurol Neurochir Pol 1996 May–Jun;30(3):495–502 (Eng. Abstr.) **(Pol)**

[Thrombotic thrombocytopenic purpura and hemolytic uremic syndrome (TTP/HUS). Description of a series of 35 patients] Martínez Francés A, et al. **Med Clin (Barc)** 1997 Jun 7;109(2):49–52 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Thrombotic thrombocytopenic purpura and hemolytic uremic syndrome in pregnancy: review of 11 cases [see comments] Egerman RS, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):950–6. Comment in: Am J Obstet Gynecol 1997 Jun;176(6):1397–8.

Heterogeneity of atypical haemolytic uraemic syndromes. Neuhaus TJ, et al. **Arch Dis Child** 1997 Jun;76(6):518–21 (40 ref.)

Hemolytic uremic syndrome due to shiga-like toxin producing Escherichia coli 048:H21 in South Australia. Goldwater PN, et al. **Emerg Infect Dis** 1995 Oct–Dec; 1(4):132–3

Hemolytic uremic syndrome following hemorrhagic colitis caused by verotoxin-producing Escherichia coli 0157:H7: early signs of hemolytic uremic syndrome. Tsuji A, et al.
Keio J Med 1996 Mar;45(1):44–7

Hemolytic uremic syndrome as a presenting form of HIV infection. Badesha PS, et al. **Nephron** 1996;72(3):472–5 (39 ref.)

Early gestational hemolytic uremic syndrome: case report and review of literature. Ribeiro FM, et al. **Ren Fail** 1997 May;19(3):475–9

Acute renal failure due to hemolytic uremic syndrome in adult patients. Sens YA, et al. **Ren Fail** 1997 Mar; 19(2):279–82

[A novel marker of development of HUS associated with enterohemorrhagic Escherichia coli infection--thrombomodulin levels in the blood] Nagayama K. **Nippon Rinsho** 1997 Mar;55(3):747–50 (Eng. Abstr.) **(Jpn)**

[A case of fatal hemolytic-uremic syndrome with central nervous system manifestations] Iwanowski L, et al.
Neurol Neurochir Pol 1996 May–Jun;30(3):495–502 (Eng. Abstr.) **(Pol)**

DRUG THERAPY

Iloprost in the treatment of thrombotic microangiopathy: report of thirteen cases. Sagripanti A, et al.
Biomed Pharmacother 1996;50(8):350–6

EPIDEMIOLOGY

Hemolytic-uremic syndrome in adolescents. Siegler RL, et al. **Arch Pediatr Adolesc Med** 1997 Feb;151(2):165–9

Haemolytic-uraemic syndrome in Western Australia, 1980 to 1994 [see comments] Cameron C, et al.
Aust N Z J Public Health 1996 Oct;20(5):462–6. Comment in: Aust N Z J Public Health 1996 Oct;20(5):453–5.

Surveillance of haemolytic uraemic syndrome in children.
Commun Dis Rep CDR Wkly 1997 Feb 28;7(9):75, 78

Hemolytic uremic syndrome [editorial] Beers M, et al.
Emerg Infect Dis 1995 Oct–Dec;1(4):154–5

Hemolytic uremic syndrome surveillance to monitor trends in infection with Escherichia coli O157:H7 and other shiga toxin-producing E. coli. Mahon BE, et al.
Emerg Infect Dis 1997 Jul–Sep;3(3):409–12 (15 ref.)

Verocytotoxin-producing Escherichia coli infection in hemolytic uremic syndrome in part of western Europe. van de Kar NC, et al. **Eur J Pediatr** 1996 Jul;155(7):592–5

Molecular microbiological investigation of an outbreak of hemolytic-uremic syndrome caused by dry fermented sausage contaminated with Shiga-like toxin-producing Escherichia coli. Paton AW, et al. **J Clin Microbiol** 1996 Jul;34(7):1622–7

A cluster of Escherichia coli O157:H7 infections with the hemolytic-uremic syndrome and death in California. A mandate for improved surveillance. Shefer AM, et al.
West J Med 1996 Jul–Aug;165(1–2):15–9

[Epidemiology of acute post-diarrhea hemolytic-uremic syndrome in children in 4 French departments] Cloarec S, et al. **Arch Pediatr** 1996 Dec;3(12):1209–14 (Eng. Abstr.) **(Fre)**

[Epidemiological study of hemolytic uremic syndrome associated with enterohemorrhagic Escherichia coli in Japan] Takeda T, et al. **Nippon Rinsho** 1997 Mar; 55(3):693–9 (0 ref.) **(Jpn)**

[Hemolytic uremic syndrome (editorial)] Exeni RA.
Medicina (B Aires) 1996;56(2):197–8 **(Spa)**

ETIOLOGY

Thrombotic microangiopathy in a patient with chronic myelogenous leukemia on hydroxyurea. Shammas F, et al.

Acta Haematol 1997;97(3):184–6

Hemolytic uremic syndrome following autologous peripheral blood stem cell transplantation in a patient with malignant lymphoma. Ohno E, et al. **Bone Marrow Transplant** 1997 May;19(10):1045–7

Hemolytic uremic syndrome after autologous BMT without TBI [letter; comment] Raybon KB, et al.
Bone Marrow Transplant 1996 May;17(5):897–8. Comment on: Bone Marrow Transplant 1994 Oct;14(4):495–504.

Lipopolysaccharide-specific antibodies in plasma and stools of children with Shigella-associated leukemoid reaction and hemolytic-uremic syndrome. Azim T, et al.
Clin Diagn Lab Immunol 1996 Nov;3(6):701–5

Shiga toxin-producing Escherichia coli serotype OX3:H21 as a cause of hemolytic-uremic syndrome. Keskimäki M, et al. **Clin Infect Dis** 1997 Jun;24(6):1278–9; discussion 1280–2

Hemolytic uremic syndrome [editorial] Beers M, et al.
Emerg Infect Dis 1995 Oct-Dec;1(4):154–5

Does treatment of bloody diarrhea due to Shigella dysenteriae type 1 with ampicillin precipitate hemolytic uremic syndrome? Bin Saeed AA, et al.
Emerg Infect Dis 1995 Oct-Dec;1(4):134–7

An outbreak of hemolytic uremic syndrome associated with antibiotic treatment of hospital inpatients for dysentery. Al-Qarawi S, et al. **Emerg Infect Dis** 1995 Oct-Dec; 1(4):138–40

Thrombotic microangiopathy related to infection in an HIV-positive patient [letter] Mayo J, et al.
Eur J Clin Microbiol Infect Dis 1996 Mar;15(3):254–6 (14 ref.)

Pulmonary veno-occlusive disease accompanied by microangiopathic hemolytic anemia 1 year after a second bone marrow transplantation for acute lymphoblastic leukemia. Kuga T, et al. **Int J Hematol** 1996 Aug; 64(2):143–50

Escherichia coli 0157:H7--two case reports. Lee JM, et al.
Ir J Med Sci 1997 Jan-Mar;166(1):20–2 (6 ref.)

Association of verotoxin-producing E. coli and verotoxin with hemolytic uremic syndrome. Arbus GS.
Kidney Int Suppl 1997 Mar;58:S91–6 (78 ref.)

Pathogenesis and treatment of thrombotic microangiopathy. Ruggenenti P, et al. **Kidney Int Suppl** 1997 Mar;58:S97–101 (38 ref.)

Haemolytic-uraemic syndrome in a patient infected by HIV [letter] Benitez M, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):362–3

A child with haemolytic uraemic syndrome: do we have to care about aetiological heterogeneity? Filler G, et al.
Nephrol Dial Transplant 1997 May;12(5):1064–6

Acute cortical necrosis in acquired immunodeficiency syndrome (AIDS). Hertig A, et al.
Nephrol Dial Transplant 1997 Mar;12(3):585–7

Recurrence of haemolytic-uraemic syndrome in renal transplants: a single-centre report. Miller RB, et al.
Nephrol Dial Transplant 1997 Jul;12(7):1425–30

Hemolytic-uremic syndrome associated with pseudomembranous colitis caused by Clostridium difficile [letter] Mogyorosi A, et al. **Nephron** 1997;76(4):491

Hemolytic-uremic syndrome after Escherichia coli urinary tract infection [letter] Hassink RI, et al.
Pediatr Infect Dis J 1997 Aug;16(8):828

Possible person-to-person transmission of Escherichia coli O111--associated hemolytic uremic syndrome. Boudailliez B, et al. **Pediatr Nephrol** 1997 Feb;11(1):36–9

A typical hemolytic uremic syndrome in human immunodeficiency virus-1-infected children. Turner ME, et al. **Pediatr Nephrol** 1997 Apr;11(2):161–3

Nonrecurrent hemolytic uremic syndrome (HUS de novo) as cause of acute renal failure after renal transplant. Mazzali M, et al. **Ren Fail** 1997 Mar;19(2):271–7

Thrombotic thrombocytopenic purpura/hemolytic uremic syndrome relapse: frequency, pathogenesis, and meaning. Bell WR. **Semin Hematol** 1997 Apr;34(2):134–9

Cancer- and drug-associated thrombotic thrombocytopenic purpura and hemolytic uremic syndrome. Gordon LI, et al. **Semin Hematol** 1997 Apr;34(2):140–7 (80 ref.)

Human immunodeficiency virus infection and thrombotic microangiopathy. Hymes KB, et al. **Semin Hematol** 1997 Apr;34(2):117–25 (80 ref.)

Transplantation-associated thrombotic thrombocytopenic purpura and hemolytic uremic syndrome. Schriber JR, et al. **Semin Hematol** 1997 Apr;34(2):126–33 (76 ref.)

Hemolytic uremic syndromes in childhood. Gordjani N, et al. **Semin Thromb Hemost** 1997;23(3):281–93 (155 ref.)

Haemolytic uraemic syndrome associated with OKT3 [letter; comment] Morris-Stiff G, et al. **Transpl Int** 1996;9(5):522–3 . Comment on: Transpl Int 1996;9(1):68–75.

[Epidemiology of acute post-diarrhea hemolytic-uremic syndrome in children in 4 French departments] Cloarec S, et al. **Arch Pediatr** 1996 Dec;3(12):1209–14 (Eng. Abstr.) **(Fre)**

[Escherichia coli O157:H7 ischemic colitis with hemolytic-uremic syndrome (letter)] Bellaïche G, et al.
Gastroenterol Clin Biol 1996;20(6-7):614–5 **(Fre)**

[Hemolytic-uremic syndrome and Campylobacter jejuni enteritis (letter)] Lacaille A, et al. **Presse Med** 1996 Oct 5;25(29):1349 **(Fre)**

[Hemolytic uremic syndrome after hemorrhoid sclerotherapy (letter)] Eugene M, et al. **Rev Med Interne** 1997;18(1):80–1 **(Fre)**

[How is hemolytic-uremic syndrome in childhood acquired in Switzerland?] Kernland KH, et al.
Schweiz Med Wochenschr 1997 Jul 22;127(29-30):1229–33 (Eng. Abstr.) **(Ger)**

[Hemolytic uremic syndrome] Arai T, et al.
Nippon Rinsho 1996 Sep;54(9):2551–60 (63 ref.) (Eng. Abstr.) **(Jpn)**

[Predictive indicators for progression to severe complications(hemolytic-uremic syndrome and encephalopathy) and their prevention in enterohemorrhagic Escherichia coli infection] Joh K.
Nippon Rinsho 1997 Mar;55(3):700–5 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Verotoxin induced hemolytic uremic syndrome: pathophysiology of neurological involvement] Takagi C, et al. **Nippon Rinsho** 1997 Mar;55(3):731–5 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Primary tubular impairment by verocytotoxin in hemolytic uremic syndrome] Uchida H, et al. **Nippon Rinsho** 1997 Mar;55(3):726–30 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Renal thrombotic microangiopathy] Sakakibara K.
Ryoikibetsu Shokogun Shirizu 1997;(16 Pt 1):316–9 (18 ref.) **(Jpn)**

[Nephropathy by food poisoning] Yoshikawa Y, et al.
Ryoikibetsu Shokogun Shirizu 1997;(16 Pt 1):560–2 (8 ref.) **(Jpn)**

[Hemolytic uremic syndrome as a clinical manifestation of oxidative stress] Balashova TS, et al.
Vestn Ross Akad Med Nauk 1996;(9):20–3 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Cytokines in haemolytic uraemic syndrome associated with verocytotoxin-producing Escherichia coli infection. Inward CD, et al. **Arch Dis Child** 1997 Aug;77(2):145–7

Immune response to Escherichia coli O157:H7 in hemolytic uremic syndrome following salmonellosis. Flores FX, et al. **Pediatr Nephrol** 1997 Aug;11(4):488–90

METABOLISM

Different expression of the plasminogen activation system in renal thrombotic microangiopathy and the normal human kidney. Xu Y, et al. **Kidney Int** 1996 Dec; 50(6):2011–9

The neutrophil oxidative burst in diarrhoea-associated haemolytic uraemic syndrome. Hughes DA, et al.
Pediatr Nephrol 1996 Aug;10(4):445–7

MICROBIOLOGY

Evaluation of DNA "fingerprinting" for predicting the potential of E. coli O157:H7 isolates to cause hemolytic uremic syndrome (HUS). McAdoo KK, et al.
Adv Exp Med Biol 1997;412:193–200

Clostridium perfringens septicemia with massive hemolysis in a patient with Hodgkin's lymphoma. Singer AJ, et al.
Am J Emerg Med 1997 Mar;15(2):152–4

Cytokines in haemolytic uraemic syndrome associated with verocytotoxin-producing Escherichia coli infection. Inward CD, et al. **Arch Dis Child** 1997 Aug;77(2):145–7

Haemolytic-uraemic syndrome in the Hunter: public health implications [see comments] Miles TA, et al.
Aust N Z J Public Health 1996 Oct;20(5):457–62. Comment in: Aust N Z J Public Health 1996 Oct;20(5):453–5.

Verocytotoxin-producing Escherichia coli in children with hemolytic uremic syndrome in the Czech Republic. Bielaszewska M, et al. **Clin Nephrol** 1996 Jul;46(1):42–4

Four cases of hemolytic uremic syndrome--source contaminated swimming water? Cransberg K, et al.
Clin Nephrol 1996 Jul;46(1):45–9

Unpasteurised apple juice causes outbreak of haemolytic uraemic syndrome in North America.
Commun Dis Rep CDR Wkly 1996 Nov 15;6(46):399

Hemolytic uremic syndrome due to shiga-like toxin producing Escherichia coli 048:H21 in South Australia. Goldwater PN, et al. **Emerg Infect Dis** 1995 Oct-Dec; 1(4):132–3

An outbreak of hemolytic uremic syndrome due to Escherichia coli O157:H7: or was it? [letter] Goldwater PN, et al. **Emerg Infect Dis** 1996 Apr-Jun;2(2):153–4

Hemolytic uremic syndrome surveillance to monitor trends in infection with Escherichia coli O157:H7 and other shiga toxin-producing E. coli. Mahon BE, et al.
Emerg Infect Dis 1997 Jul-Sep;3(3):409–12 (15 ref.)

Isolation of enterohemorrhagic Escherichia coli O157 strains from patients with hemolytic-uremic syndrome by using immunomagnetic separation, DNA-based methods, and direct culture. Karch H, et al. **J Clin Microbiol** 1996 Mar; 34(3):516–9

Molecular microbiological investigation of an outbreak of hemolytic-uremic syndrome caused by dry fermented sausage contaminated with Shiga-like toxin-producing Escherichia coli. Paton AW, et al. **J Clin Microbiol** 1996 Jul;34(7):1622–7

Enterohemolytic phenotypes and genotypes of shiga toxin-producing Escherichia coli O111 strains from patients with diarrhea and hemolytic-uremic syndrome. Schmidt H, et al. **J Clin Microbiol** 1996 Oct;34(10):2364–7

Immune response to non-O157 Vero toxin-producing Escherichia coli in patients with hemolytic uremic syndrome [see comments] Ludwig K, et al.
J Infect Dis 1996 Nov;174(5):1028–39. Comment in: J Infect Dis 1996 Nov;174(5):1136–9.

Maternal diarrhea and ischemic enteritis in newborn twins: possible association with an hemolytic uremic syndrome outbreak [letter] Couper R, et al.
J Pediatr Gastroenterol Nutr 1997 Sep;25(3):366

Association of verotoxin-producing E. coli and verotoxin with hemolytic uremic syndrome. Arbus GS.
Kidney Int Suppl 1997 Mar;58:S91–6 (78 ref.)

Verocytotoxin-producing Escherichia coli infection in family members of children with hemolytic uremic syndrome. Rivas M, et al. **Medicina (B Aires)** 1996;56(2):119–25

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 17-1997. A 67-year-old woman with vomiting, bloody diarrhea, and azotemia [clinical conference] **N Engl J Med** 1997 May 29; 336(22):1587–94

Hemolytic-uremic syndrome associated with acute Campylobacter upsaliensis gastroenteritis [letter] Carter JE, et al. **Nephron** 1996;74(2):489

Shiga-like toxin-producing Escherichia coli O111 and associated hemolytic-uremic syndrome: a family outbreak. Banatvala N, et al. **Pediatr Infect Dis J** 1996 Nov; 15(11):1008–11

[Present problems in detection of sources of infection and chains of infection with enterohemorrhagic E. coli (EHEC)] Weber A, et al.
Berl Munch Tierarztl Wochenschr 1997 Jun;110(6):211–3 (Eng. Abstr.) **(Ger)**

[Epidemiological study of hemolytic uremic syndrome associated with enterohemorrhagic Escherichia coli in Japan] Takeda T, et al. **Nippon Rinsho** 1997 Mar; 55(3):693–9 (0 ref.) **(Jpn)**

MORTALITY

Childhood hemolytic uremic syndrome in Argentina: long-term follow-up and prognostic features. Spizzirri FD, et al. **Pediatr Nephrol** 1997 Apr;11(2):156–60

PATHOLOGY

Endotheliopathy: a continuum of hemolytic uremic syndrome due to mitomycin therapy. Groff JA, et al.
Am J Kidney Dis 1997 Feb;29(2):280–4

Late renal allograft failure secondary to thrombotic microangiopathy associated with disseminated malignancy. Gohh RY, et al. **Am J Nephrol** 1997;17(2):176–80

Long-term (15-25 years) outcome of childhood hemolytic-uremic syndrome. Gagnadoux MF, et al.
Clin Nephrol 1996 Jul;46(1):39–41

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 17-1997. A 67-year-old woman with vomiting, bloody diarrhea, and azotemia [clinical conference] **N Engl J Med** 1997 May 29; 336(22):1587–94

Recurrent hemolytic uremic syndrome with hypocomplementemia and intestinal lymphangiectasia. Bogdanović R, et al. **Nephron** 1997;76(4):481–4

Is fibrinogen degradation product-E a predictive marker for a sporadic case of hemolytic uremic syndrome with bloody diarrhea? [letter] Aihara Y, et al. **Pediatr Nephrol** 1997 Jun; 11(3):389–90

The neutrophil oxidative burst in diarrhoea-associated haemolytic uraemic syndrome. Hughes DA, et al.
Pediatr Nephrol 1996 Aug;10(4):445–7

[Renal pathology of VTEC related HUS] Shigematsu H.
Nippon Rinsho 1997 Mar;55(3):721–5 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Pathomorphology of the kidneys in hemolytic-uremic syndrome in children] Khodasevich LS, et al.
Arkh Patol 1997 May-Jun;59(3):38–44 (Eng. Abstr.) **(Rus)**

[Pathomorphology of extrarenal alterations in hemolytic-uremic syndrome in children] Khodasevich LS, et al. **Arkh Patol** 1997 May-Jun;59(3):44–8 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

24-hour blood pressure monitoring in children and adolescents after recovery from hemolytic uremic syndrome. Bald M, et al. **Clin Nephrol** 1996 Jul;46(1):50–3

Haemolytic uraemic syndrome and thrombocytopenic thrombotic purpura [editorial] Zijlstra JG, et al.
Int J Artif Organs 1997 Apr;20(4):191–4 (18 ref.)

Apoptosis of microvascular endothelial cells in the pathophysiology of thrombotic thrombocytopenic purpura/sporadic hemolytic uremic syndrome. Laurence J, et al. **Semin Hematol** 1997 Apr;34(2):98–105 (34 ref.)

[Involvement of the central nervous system in hemolytic uremic syndrome/thrombotic thrombocytopenic purpura] Ohlmann D, et al. **Nervenarzt** 1996 Oct;67(10):880–2 (Eng. Abstr.) **(Ger)**

[Pathogenesis of hemolytic uremic syndrome and thrombotic thrombocytopenia purpura] Gruenbaum G, et al.
Harefuah 1997 May 1;132(9):665–9 (34 ref.) **(Heb)**

SURGERY

Bilateral nephrectomy stopped disease progression in plasma-resistant hemolytic uremic syndrome with neurological signs and coma. Remuzzi G, et al.
Kidney Int 1996 Jan;49(1):282–6

Renal transplantation in adults with thrombotic thrombocytopenic purpura/haemolytic-uraemic syndrome.

Conlon PJ, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1810–4

Simultaneous pancreas-kidney transplant in two children with hemolytic-uremic syndrome. Bendel-Stenzel MR, et al. **Pediatr Nephrol** 1997 Aug;11(4):485–7

[Severe hemolytic-uremic syndrome complicated by cholelithiasis treated with laparoscopic cholecystectomy in a 12-year old boy] Jarmoliński T, et al. **Pol Tyg Lek** 1996 Apr;51(14–18):230–2 (Eng. Abstr.) **(Pol)**

THERAPY

Thrombotic thrombocytopenic purpura and hemolytic uremic syndrome in pregnancy: review of 11 cases [see comments] Egerman RS, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):950–6. Comment in: Am J Obstet Gynecol 1997 Jun;176(6):1397–8.

The role of plasma exchange for TTP/HUS post-bone marrow transplant [letter] Chown SR, et al. **Bone Marrow Transplant** 1996 May;17(5):898–9

Successful outcome of treating hemolytic uremic syndrome associated with cancer chemotherapy with immunoadsorption. D'Souza RJ, et al. **Clin Nephrol** 1997 Jan;47(1):58–9

Pathogenesis and treatment of thrombotic microangiopathy. Ruggenenti P, et al. **Kidney Int Suppl** 1997 Mar;58:S97–101 (38 ref.)

An experience of the therapeutic use of an endotoxin adsorption column for microangiopathic haemolytic uraemic syndrome [letter] Okada H, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1774

Continuous hemofiltration in children with abdominal complications of hemolytic-uremic syndrome [letter] Cavagnaro F, et al. **Nephron** 1996;74(2):433–4

Management of patients with hemolytic uremic syndrome demonstrating severe azotemia but not anuria. Schulman SL, et al. **Pediatr Nephrol** 1996 Oct;10(5):671–4

Management of thrombotic thrombocytopenic purpura and hemolytic uremic syndrome. Kwaan HC, et al. **Semin Hematol** 1997 Apr;34(2):159–66 (64 ref.)

[Advances in the treatment of hemolytic uremic syndrome (HUS)] Ito K, et al. **Nippon Rinsho** 1997 Mar;55(3):715–20 (20 ref.) (Eng. Abstr.) **(Jpn)**

[The old and new problems of the antibiotics treatment in hemorrhagic enterocolitis and hemolytic uremic syndrome, according to Japanese epidemiological studies] Kohsaka T, et al. **Nippon Rinsho** 1997 Mar;55(3):706–14 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Aiming serotherapy of HUS–IVIG, serum lipoprotein and C3] Nishioka K, et al. **Nippon Rinsho** 1997 Mar; 55(3):758–62 (34 ref.) **(Jpn)**

URINE

Nitric oxide in the urine of a patient with hemolytic uremic syndrome [letter] Dedeoglu IO, et al. **Pediatr Nephrol** 1996 Dec;10(6):812–3

HEMOPERFUSION

Comparative efficacy of hemodialysis and hemoperfusion in severe theophylline intoxication. Shannon MW. **Acad Emerg Med** 1997 Jul;4(7):674–8

Low-density lipoprotein hemoperfusion using a modified polyacrylate adsorber: in vitro, ex vivo, and first clinical results. Bosch T. **Artif Organs** 1996 Apr;20(4):344–5

Development of a potassium-specific adsorbent for direct hemoperfusion. Terai C, et al. **Artif Organs** 1996 Nov; 20(11):1227–32

Hemodialysis and hemoperfusion in the successful treatment of a poisoning with a herbicide containing glufosinate ammonium and a surfactant [letter] Shinohara M, et al. **Clin Nephrol** 1997 Jul;48(1):61

Effect of hemocarboperfusion on organ blood flow and survival in porcine endotoxic shock. Odnopozov VA, et al. **Crit Care Med** 1996 Dec;24(12):2021–6

Hemoperfusion with alpha-amanitin: an in vitro study. Mydlik M, et al. **Int J Artif Organs** 1997 Feb;20(2):105–7

Eighteen cases exposed to sarin in Matsumoto, Japan [see comments] Suzuki J, et al. **Intern Med** 1997 Jul;36(7):466–70 . Comment in: Intern Med 1997 Jul;36(7):447.

Theophylline intoxication: clinical features and pharmacokinetics during treatment with charcoal hemoperfusion. Shechter P, et al. **Isr J Med Sci** 1996 Sep; 32(9):766–70 (18 ref.)

Effect of charcoal hemoperfusion on clearance of pentamidine isethionate after accidental overdose. Watts RG, et al. **J Toxicol Clin Toxicol** 1997;35(1):89–92

Clonidine removal by hemoperfusion in a uremic patient [letter] Bertoli M. **Nephron** 1996;72(1):117–8

The function of transgenic human DAF-expressing porcine livers during hemoperfusion with human blood. Pöhlein C, et al. **Transpl Int** 1996;9 Suppl 1:S392–6

Quantitative analysis of the microcirculation of xenogeneic haemoperfused rat livers by intravital microscopy. Seehofer D, et al. **Transpl Int** 1996;9 Suppl 1:S97–9

Morphology of hDAF (CD55) transgenic pig kidneys following ex-vivo hemoperfusion with human blood. Storck M, et al. **Transplantation** 1997 Jan 27;63(2):304–10

Successful treatment of phenol poisoning with charcoal hemoperfusion [published erratum appears in Vet Hum Toxicol 1996 Apr;38(2):117] Christiansen RG, et al. **Vet Hum Toxicol** 1996 Feb;38(1):27–8

Hemodialysis and hemoperfusion for treatment of valproic acid and gabapentin poisoning. Fernandez MC, et al. **Vet Hum Toxicol** 1996 Dec;38(6):438–43

[The effect of high-dose intraarterial chemotherapy with percutaneous hepatic venous isolation and charcoal hemoperfusion (HVI.CHP) for unresectable multiple hepatocellular carcinoma—comparison with other therapeutic modalities] Iwasaki T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1426–8 (Eng. Abstr.) **(Jpn)**

[A case of advanced hepatoma cured by repeated percutaneous isolated liver perfusion using hepatic venous isolation and charcoal hemoperfusion] Kitagawa T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1592–5 (Eng. Abstr.) **(Jpn)**

[Evaluation of concomitant use of cyclosporin and percutaneous isolated liver perfusion under complete venous isolation and charcoal hemoperfusion] Kusunoki N, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1408–11 (Eng. Abstr.) **(Jpn)**

[Treatment of arteriosclerotic obstruction by blood purification] Agishi T. **Nippon Geka Gakkai Zasshi** 1996 Jul;97(7):563–7 (9 ref.) (Eng. Abstr.) **(Jpn)**

[Hemosorption in intensive care treatment of severe forms of bronchial asthma in children] Repina EG, et al. **Anesteziol Reanimatol** 1996 Nov-Dec;(6):54–5 (Eng. Abstr.) **(Rus)**

[Experience in the treatment of severe forms of sepsis by extracorporeal therapy and hyperbaric oxygenation] Zhidkov KP, et al. **Anesteziol Reanimatol** 1997 May-Jun; (3):49–51 (Eng. Abstr.) **(Rus)**

[The comparative efficacy of hemosorption and xenosorption in bronchial asthma patients] Kovalenko NN, et al. **Lik Sprava** 1995 Mar-Apr;(3–4):159–62 (Eng. Abstr.) **(Rus)**

[The evaluation of the efficacy of hemosorption and plasmapheresis in IHD complicated by chronic heart failure] Koriakova NN, et al. **Ter Arkh** 1996;68(5):71–3 (Eng. Abstr.) **(Rus)**

[The use of extracorporeal blood purification for the treatment of cardiac rhythm disorders] Nedostup AV, et al. **Ter Arkh** 1996;68(4):9–11 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

[The hemostatic system and thrombohemorrhagic complications during the hemosorption treatment of patients with chronic glomerulonephritis with nephrotic syndrome] Kolesnyk MO, et al. **Lik Sprava** 1995 Sep-Dec; (9–12):78–80 (Eng. Abstr.) **(Ukr)**

INSTRUMENTATION

[Evaluation of factors affecting the formation of thrombi in hemoperfusion columns] Sevela K, et al. **Vnitr Lek** 1996 Jun;42(6):408–13 (Eng. Abstr.) **(Cze)**

[A universal perfusion headpiece for hemosorption and a variant of its attachment to flasks] Semenov VN, et al. **Anesteziol Reanimatol** 1996 Sep-Oct;(5):87–8 **(Rus)**

METHODS

Pharmacological evaluation of portal venous isolation and charcoal haemoperfusion for high-dose intra-arterial chemotherapy of the pancreas. Tominaga M, et al. **Br J Surg** 1997 Aug;84(8):1072–6

Use of extracorporeal liver assist device and auxiliary liver transplantation in fulminant hepatic failure. McCarthy M, et al. **Eur J Gastroenterol Hepatol** 1997 Apr;9(4):407–12

Polymyxin B-immobilized fiber improves hyperdynamic state in MRSA septic patients [letter] Kawamata T, et al. **Intensive Care Med** 1997 Jan;23(1):130–1

Oleander poisoning treated by resin haemoperfusion. Durakovic Z, et al. **J Indian Med Assoc** 1996 Apr; 94(4):149–50

Reduction of plasma nitric oxide in a patient with endotoxic shock by hemoadsorption therapy [letter] Shimada N, et al. **Nephron** 1997;75(1):115

[The immunological and morphological aspects of hemoperfusion with pig donor spleen in treating psoriasis patients] Korol' VN, et al. **Lik Sprava** 1996 Oct-Dec; (10–12):138–42 (Eng. Abstr.) **(Rus)**

STANDARDS

Long-term clinical evaluation of an adsorbent column (BM-01) of direct hemoperfusion type for beta 2-microglobulin on the treatment of dialysis-related amyloidosis. Gejyo F, et al. **Artif Organs** 1995 Dec; 19(12):1222–6

HEMOPERICARDIUM see **PERICARDIAL EFFUSION**

HEMOPERITONEUM

Autotransfusion with laparoscopically salvaged blood in trauma: report on 21 cases. Zantut LF, et al. **Surg Laparosc Endosc** 1996 Feb;6(1):46–8

CHEMICALLY INDUCED

Spontaneous hemoperitoneum from brodifacoum overdose. Morgan BW, et al. **Am J Emerg Med** 1996 Nov;14(7):656–9

DIAGNOSIS

Validity of visual inspection of diagnostic peritoneal lavage fluid. Gow KW, et al. **Can J Surg** 1996 Apr;39(2):114–9

Pelvic haematoma following trucut biopsy of the prostate. Anjum MI. **Int Urol Nephrol** 1996;28(6):781–5

Endometriosis with massive bloody ascites. Mejia EM, et al. **J Am Board Fam Pract** 1997 Jan-Feb;10(1):59–61

[The paraclinical diagnosis of hemoperitoneum] Leşe M. **Chirurgia (Bucur)** 1996 May-Jun;45(3):151–4 (28 ref.) **(Rum)**

EPIDEMIOLOGY

Increased prevalence and recurrence of retrograde menstruation in baboons with spontaneous endometriosis. D'Hooghe TM, et al. **Hum Reprod** 1996 Sep;11(9):2022–5

Hemoperitoneum occurs in over half of menstruating women on peritoneal dialysis [letter] Holley JL, et al. **Perit Dial Int** 1996 Nov-Dec;16(6):650

ETIOLOGY

Spontaneous hemoperitoneum from a giant multicystic hemangioma of the liver: a case report. Scribano E, et al. **Abdom Imaging** 1996 Sep-Oct;21(5):418–9

Spontaneous rupture of the uterine vessels in a pregnancy complicated by endometriosis. Mizumoto Y, et al. **Acta Obstet Gynecol Scand** 1996 Oct;75(9):860–2 (7 ref.)

Hemoperitoneum in patients with ascites. Akriviadis EA. **Am J Gastroenterol** 1997 Apr;92(4):567–75 (87 ref.)

Uterine tumour resembling an ovarian sex-cord tumour presenting with spontaneous haemoperitoneum in pregnancy. Di Vagno G, et al. **Aust N Z J Obstet Gynaecol** 1996 May;36(2):213–5

Acute massive haemoperitoneum due to mild pelvic endometriosis. Kumar S. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):490–1

Postcoital hemoperitoneum without identifiable bleeding source: a case report. Yian MT, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Oct;58(4):291–3

Ruptured hepatocellular carcinoma: an important cause of spontaneous haemoperitoneum in Italy. Vivarelli M, et al. **Eur J Surg** 1995 Dec;161(12):881–6

Quiz case of the month. Right ureteral-peritoneal fistula with haematoperitoneum. Sardanelli F, et al. **Eur Radiol** 1997; 7(3):439–40

Acute hemoperitoneum after large-volume paracentesis. Arnold C, et al. **Gastroenterology** 1997 Sep;113(3):978–82

Haemoperitoneum secondary to rupture of retroperitoneal variceal. Molina-Perez M, et al. **HPB Surg** 1997; 10(5):329–30; discussion 330–1

Carcinoid tumor presenting as acute abdomen due to hemoperitoneum. Rungta U, et al. **Indian J Gastroenterol** 1995 Oct;14(4):147–8

Hemoperitoneum—a rare manifestation of early hemorrhagic disease of newborn [letter] Gupta BD, et al. **Indian Pediatr** 1996 Oct;33(10):874–5

Severe intraperitoneal hemorrhage in ectopic pregnancy [letter] Heinonen S, et al. **Int J Gynaecol Obstet** 1996 Feb; 52(2):189–90

A rare case of severe acute pancreatitis complicated with pancreatic pseudocysts, obstructive jaundice and intraperitoneal hemorrhage. Fujita N, et al. **Intern Med** 1996 Oct;35(10):785–90

Rupture of metastatic nodule on the peritoneal surface secondary to hepatocellular carcinoma. Okano J, et al. **Intern Med** 1996 Oct;35(10):783–4

Postoperative hemorrhage due to avulsion of perihepatic adhesions after pneumoperitoneum. Rogers RG, et al. **J Am Assoc Gynecol Laparosc** 1996 Aug;3(4):631–3

Extrahepatic portal vein puncture and intra-abdominal hemorrhage during transjugular intrahepatic portosystemic shunt creation. Davis AG, et al. **J Vasc Interv Radiol** 1996 Nov-Dec;7(6):863–6

Hemoperitoneum in peritoneal dialysis secondary to retroperitoneal hematoma [letter] Fernández Girón F, et al. **Perit Dial Int** 1996 Nov-Dec;16(6):644

Hemoperitoneum due to carcinomatosis in the liver of a CAPD patient. Fine A, et al. **Perit Dial Int** 1996 Mar-Apr; 16(2):181–3

Erosion of a mesenteric vessel by a Tenckhoff catheter. Miller R, et al. **Perit Dial Int** 1996 Sep-Oct;16(5):528–9

[Severe complications in diagnostic laparoscopy. 9 years experience in 747 examinations] Adamek HE, et al. **Med Klin** 1996 Nov 15;91(11):694–7 (Eng. Abstr.) **(Ger)**

[Hemoperitoneum caused by leiomyoma of the colon] Di Roma A, et al. **Minerva Chir** 1996 Sep;51(9):725–7 (Eng. Abstr.) **(Ita)**

[Classification problems in iatrogenic hepatic traumas. 10 years of personal experience: 17 cases] Pezzullo LS, et al. **Minerva Chir** 1997 Jun;52(6):743–6 (Eng. Abstr.) **(Ita)**

[Hemoperitoneum caused by lesions to the appendix epiploica. An unusual complication of colonoscopy] Sorrentino M, et al. **Minerva Chir** 1996 Oct;51(10):835–7 (Eng. Abstr.) **(Ita)**

[Retroperitoneal hematoma after percutaneous transluminal coronary angioplasty] Gómez Sánchez-Biedma C, et al. **An Med Interna** 1996 Aug;13(8):395–7 (Eng. Abstr.) **(Spa)**

[Hemoperitoneum as the first manifestation of ileal leiomyoma (letter)] Hallal H, et al. **An Med Interna** 1996 Aug;13(8):409–10 **(Spa)**

[Spontaneous hemoperitoneum due to rupture of a

HEMOPERITONEUM

regenerating nodule as primary manifestation of hepatic cirrhosis (letter)] Carrasco M, et al. **Med Clin (Barc)** 1997 Jun 21;109(4):157–8 **(Spa)**

[Hemoperitoneal splenic infarct of cryptogenic origin (letter)] Escudero de Fernández MD, et al.
Rev Esp Enferm Dig 1997 Jun;89(6):491–3 **(Spa)**

PHYSIOPATHOLOGY

A new model of uncontrolled hemorrhage that allows correlation of blood pressure and hemorrhage. Silbergleit R, et al. **Acad Emerg Med** 1996 Oct;3(10):917–21

Effect of permissive hypotension in continuous uncontrolled intra-abdominal hemorrhage. Silbergleit R, et al.
Acad Emerg Med 1996 Oct;3(10):922–6

SURGERY

[Severe pelvic injury with pelvic mass hemorrhage: determining severity of hemorrhage and clinical experience with emergency stabilization] Pohlemann T, et al.
Unfallchirurg 1996 Oct;99(10):734–43 (Eng. Abstr.) **(Ger)**

THERAPY

[Selective intra-arterial embolization in spontaneous rupture of hepatocarcinoma] Trillo Parejo P, et al.
Rev Esp Enferm Dig 1996 Aug;88(8):569–72 (Eng. Abstr.) **(Spa)**

ULTRASONOGRAPHY

Abdominal injuries without hemoperitoneum: a potential limitation of focused abdominal sonography for trauma (FAST). Chiu WC, et al. **J Trauma** 1997 Apr;42(4):617–23; discussion 623–5

VETERINARY

Increased prevalence and recurrence of retrograde menstruation in baboons with spontaneous endometriosis. D'Hooghe TM, et al. **Hum Reprod** 1996 Sep;11(9):2022–5

HEMOPEXIN

CHEMISTRY

The helping hand of collagenase-3 (MMP-13): 2.7 A crystal structure of its C-terminal haemopexin-like domain. Gomis-Rüth FX, et al. **J Mol Biol** 1996 Dec 6; 264(3):556–66

GENETICS

The hemopexin-type repeats of human vitronectin are recognized by Streptococcus pyogenes. Liang OD, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):445–9

Molecular cloning of a hemopexin-like cDNA from rainbow trout liver. Miot S, et al. **DNA Seq** 1996;6(6):311–8

IMMUNOLOGY

The hemopexin-type repeats of human vitronectin are recognized by Streptococcus pyogenes. Liang OD, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):445–9

METABOLISM

Specific, high affinity binding of tissue inhibitor of metalloproteinases-4 (TIMP-4) to the COOH-terminal hemopexin-like domain of human gelatinase A. TIMP-4 binds progelatinase A and the COOH-terminal domain in a similar manner to TIMP-2. Bigg HF, et al.
J Biol Chem 1997 Jun 13;272(24):15496–500

The hemopexin-like domain (C domain) of human gelatinase A (matrix metalloproteinase-2) requires Ca2+ for fibronectin and heparin binding. Binding properties of recombinant gelatinase A C domain to extracellular matrix and basement membrane components. Wallon UM, et al. **J Biol Chem** 1997 Mar 14;272(11):7473–81

PHARMACOLOGY

Role of hemopexin in protection of low-density lipoprotein against hemoglobin-induced oxidation. Miller YI, et al. **Biochemistry** 1996 Oct 8;35(40):13112–7

Haemopexin and uptake of haem by liver cells [letter] Bonkovsky HL, et al. **Eur J Clin Chem Clin Biochem** 1996 Nov;34(11):931–2

PHYSIOLOGY

Role of heme-hemopexin in human T-lymphocyte proliferation. Smith A, et al. **Exp Cell Res** 1997 May 1; 232(2):246–54

HEMOPHAGOCYTIC SYNDROME, INFECTION-ASSOCIATED see **HISTIOCYTOSIS, NON-LANGERHANS-CELL**

HEMOPHILIA

see related

HEMARTHROSIS

A database for a National Haemophilia Centre. O'Connor GI, et al. **Clin Lab Haematol** 1996 Sep;18(3):195–200

Presenting features at diagnosis and complications of hemophilia in Dakar: apropos of 25 cases. Thiam D, et al. **Hematol Cell Ther** 1997 Feb;39(1):1–4

Remembering Ron. A glimpse into the heart of doctoring. Porter WG. **N C Med J** 1997 Mar-Apr;58(2):110–2

Arrests made in HIV blood scandal [news] Nathan R. **Nat Med** 1996 Nov;2(11):1169

Hemophilia and EACA [letter] Radivoyevitch MA.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 1996 Aug;82(2):118

BLOOD

The incidence of factor VIII inhibitors in patients with severe hemophilia A. Hoyer LW. **Adv Exp Med Biol** 1995; 386:35–45 (28 ref.)

Clinical presentation and management of patients with circulating anticoagulants. Moliterno A, et al.
Adv Exp Med Biol 1995;386:153–5

The function of factor VIIa in hemophilia A: an hypothesis. Nemerson Y. **Adv Exp Med Biol** 1995;386:157–61

Acquired factor VIII inhibitors in nonhemophilic patients. Söhngen D, et al. **Ann Hematol** 1997 Feb;74(2):89–93

Intracellular retention of a factor VIII protein with an Arg2307—>Gln mutation as a cause of haemophilia A. Voorberg J, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):931–7

Adsorption of immunoglobulin G and anti-factor VIII inhibitory antibody from haemophiliac plasma to derivatized polystyrenes. Cornelius RM, et al.
Biomaterials 1997 Mar;18(5):429–36

Coagulation-dependent inhibition of fibrinolysis: role of carboxypeptidase-U and the premature lysis of clots from hemophilic plasma. Broze GJ Jr, et al. **Blood** 1996 Nov 15;88(10):3815–23

Glutathione and cysteine in HIV-infected hemophiliacs. López Galera RM, et al. **Clin Chim Acta** 1996 Oct 15; 254(1):63–72

Comparative study of four different pharmacokinetic computer programs: case study of a factor VIII preparation. Pascual B, et al. **Eur J Clin Pharmacol** 1997; 52(1):59–64

Acquired factor VIII inhibitor in a patient with tuberculosis [letter] Aurousseau MH, et al. **Haemostasis** 1996 Nov-Dec; 26(6):319–20

Anti-factor VIII inhibitors and lupus anticoagulants in haemophilia A patients. Blanco AN, et al.
Thromb Haemost 1997 Apr;77(4):656–9

Interleukin-1 in haemophilic arthritis [letter] Tagariello G, et al. **Thromb Haemost** 1996 Jun;75(6):979–80

A multicenter study of recombinant factor VIII (Recombinate) in previously treated patients with hemophilia A. The Recombinate Previously Treated Patient Study Group. White GC 2nd, et al.
Thromb Haemost 1997 Apr;77(4):660–7

Surgery in hemophilia A patients with factor VIII inhibitor: 10-year experience. Scharf R, et al. **World J Surg** 1996 Nov-Dec;20(9):1171–81

[Effect of factor VIII concentrates of very high purity on CD4+ cell count in hemophiliacs infected with HIV] Molina Alejandro R, et al. **Rev Clin Esp** 1996 Jun; 196(6):365–9 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

Empirically derived classification of coagulation disorders in 224 patients. Santavirta N, et al. **Haematologica** 1996 Jul-Aug;81(4):316–23

The revised classification of von Willebrand disease including the previously masqueraded female hemophilia A (type 2N). Nishino M, et al. **Int J Hematol** 1997 Jul;66(1):21–30 (64 ref.)

COMPLICATIONS

Unusual occurrence of spontaneous haematomas in three asymptomatic HIV-infected haemophilia patients a few days after the onset of ritonavir treatment [letter] Ginsburg C, et al. **AIDS** 1997 Mar;11(3):388–9

Maintaining safer sex behaviours in HIV-infected adolescents with haemophilia. The Hemophilia Behavioral Evaluative Intervention Project Committee. Forsberg AD, et al.
AIDS Care 1996 Dec;8(6):629–40

Haemophilia and HIV infection in Hong Kong. Lee SS, et al. **AIDS Care** 1996 Jun;8(3):365–72

Correlation of titer of antibody to principal neutralizing domain of HIVMN strain with disease progression in Japanese hemophiliacs seropositive for HIV type 1. Yamanaka T, et al. **AIDS Res Hum Retroviruses** 1997 Mar 1;13(4):317–26

Immunosuppression may lead to progression of hepatitis C virus-associated liver disease in hemophiliacs coinfected with HIV. Rockstroh JK, et al. **Am J Gastroenterol** 1996 Dec;91(12):2563–8

Thrombocytopenia in HIV-infected and uninfected hemophiliacs. Multicenter Hemophilia Cohort study. Ehmann WC, et al. **Am J Hematol** 1997 Apr;54(4):296–300

Bloody arthritis. Annesley-Williams DJ, et al.
Ann Rheum Dis 1997 Jan;56(1):12–4

Arthroscopic synovectomy for recurrent hemarthrosis of the ankle in hemophilia. Patti JE, et al. **Arthroscopy** 1996 Dec; 12(6):652–6

Hepatitis C genotypes in Australian haemophilia patients. Baker RI, et al. **Aust N Z J Med** 1996 Dec;26(6):789–92

Transfusion-transmitted disease. Lee CA.
Baillieres Clin Haematol 1996 Jun;9(2):369–94 (107 ref.)

A multicenter controlled, randomized, open trial of interferon alpha2b treatment of anti-human immunodeficiency virus-negative hemophilic patients with chronic hepatitis C. Hepatitis Study Group of the Association of Italian Hemophilia Centers. Rumi MG, et al. **Blood** 1997 May 15; 89(10):3529–33

Hemophilia and nonprogressing human immunodeficiency virus type 1 infection. Vicenzi E, et al. **Blood** 1997 Jan 1;89(1):191–200

Development of anti-interferon antibodies and breakthrough hepatitis during treatment for HCV infection in haemophiliacs. Hanley JP, et al. **Br J Haematol** 1996 Sep; 94(3):551–6

Investigation of chronic hepatitis C infection in individuals with haemophilia [letter; comment] Lee CA, et al. **Br J Haematol** 1997 Feb;96(2):425–6. Comment in: Br J Haematol 1997 Jun;97(3):689–90. Comment in: Br J Haematol 1997 Jun;97(3):690–1.

The natural history of chronic hepatitis C in haemophiliacs [letter; comment] Lee CA, et al. **Br J Haematol** 1997 Mar; 96(4):875–6. Comment on: Br J Haematol 1996 Sep;94(4):746–52.

Liver biopsy in haemophilia [letter; comment] Ludlam CA, et al. **Br J Haematol** 1997 Jun;97(3):690–1. Comment on: Br J Haematol 1997 Feb;96(2):425–6.

Liver biopsy in haemophilia [letter; comment] Makris M, et al. **Br J Haematol** 1997 Jun;97(3):689–90. Comment on: Br J Haematol 1997 Feb;96(2):425–6.

The natural history of chronic hepatitis C in haemophiliacs [see comments] Makris M, et al. **Br J Haematol** 1996 Sep; 94(4):746–52. Comment in: Br J Haematol 1997 Mar;96(4):875–6.

The role for liver biopsy in haemophiliacs infected with the hepatitis C virus. Wong VS, et al. **Br J Haematol** 1997 May;97(2):343–7

Acquired haemophilia, an unusual cause of severe postpartum haemorrhage. Kadir RA, et al. **Br J Obstet Gynaecol** 1997 Jul;104(7):854–6

HIV protease inhibitors and increased bleeding in hemophilia? [news] Hélal A. **Can Med Assoc J** 1997 Jan 1;156(1):90, 94–5 **(Eng, Fre)**

Clinical and radiological assessment of haemophilic arthropathy in children [letter] Celiker R, et al.
Clin Rheumatol 1997 Jan;16(1):109–10

The development of a Marjolin's cancer in a human immunodeficiency virus-positive hemophilic man and review of the literature. Rahimizadeh A, et al.
Dermatol Surg 1997 Jul;23(7):560–3 (40 ref.)

Liver transplantation for haemophiliacs with hepatitis C cirrhosis [see comments] McCarthy M, et al. **Gut** 1996 Dec; 39(96):870–5. Comment in: Gut 1996 Dec;39(96):887–8.

Rapid liver failure related to chronic C hepatitis in an HIV seropositive hemophilic patient with severe immunodepression. Dragoni F, et al. **Haematologica** 1996 Jul-Aug;81(4):335–8

HEMOCO: a French prospective study of hemophiliacs infected by human immunodeficiency virus type 1 (HIV-1). Boufassa F, et al. **Hematol Cell Ther** 1996 Apr;38(2):193–8

Giant duodenal hematoma in hemophilia A. Benjamin B, et al. **Indian Pediatr** 1996 May;33(5):411–4

Infection control practices in the home: a survey of households of HIV-infected persons with hemophilia [see comments] Lobato MN, et al.
Infect Control Hosp Epidemiol 1996 Nov;17(11):721–5. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):714–7.

Renal replacement therapy for hemophiliacs [editorial] Roy-Chaudhury P, et al. **Int J Artif Organs** 1997 May; 20(5):241–3

Serum beta 2-microglobulin at HIV-1 seroconversion as a predictor of severe immunodeficiency during 10 years of followup. Phillips AN, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1996 Nov 1;13(3):262–6

AIDS-associated non-Hodgkin's lymphomas as primary and secondary AIDS diagnoses in hemophiliacs. Hemophilia Malignancy Study Group. Ragni MV, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1996 Sep; 13(1):78–86

Growth hormone secretion in HIV-positive versus HIV-negative hemophilic males with abnormal growth and pubertal development. The Hemophilia Growth and Development Study. Ratner Kaufman F, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1997 Jun 1;15(2):137–44

Substance use, coping, and safer sex practices among adolescents with hemophilia and human immunodeficiency virus. The Hemophilia Behavioral Intervention Evaluative Project Committee. King G, et al. **J Adolesc Health** 1996 Jun;18(6):435–41

Lumbosacral radiculopathy and hemophilia. Bhatia B, et al.
J Assoc Physicians India 1996 Aug;44(8):561–2

Combined factors V and VIII deficiency climbs onto the map [editorial] Sadler JE. **J Clin Invest** 1997 Feb 15; 99(4):555–6 (6 ref.)

Long-term evolution of the 5'UTR and a region of NS4 containing a CTL epitope of hepatitis C virus in two haemophilic patients. Devereux HL, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):583–90

A high hepatitis E virus seroprevalence among renal transplantation and haemophilia patient populations [letter] Buffet C, et al. **J Hepatol** 1996 Jan;24(1):122–5

Molecular investigation of GB virus C infection in

hemophiliacs in Japan. Kinoshita T, et al. **J Infect Dis** 1997 Feb;175(2):454–7

The association between hepatitis C virus genotype and human immunodeficiency virus disease progression in a cohort of hemophilic men [see comments] Sabin CA, et al. **J Infect Dis** 1997 Jan;175(1):164–8. Comment in: J Infect Dis 1997 Aug;176(2):542–3.

ENT surgery in children with inherited bleeding disorders. Conlon B, et al. **J Laryngol Otol** 1996 Oct;110(10):947–9

High prevalence of GB virus C strains genetically related to strains with Asian origin in Nicaraguan hemophiliacs. González–Pérez MA, et al. **J Med Virol** 1997 Jun; 52(2):149–55

Hepatitis C (HCV) genotype and viral titer distribution among Argentinean hemophilic patients in the presence or absence of human immunodeficiency virus (HIV) co–infection. Picchio GR, et al. **J Med Virol** 1997 Jun; 52(2):219–25

Treatment for abdominal aortic aneurysm in a patient with hemophilia A: a case report and review of the literature. Kobayashi M, et al. **J Vasc Surg** 1997 May;25(5):945–8 (16 ref.)

Genotypes and multiple infections with hepatitis C virus in patients with haemophilia A in Japan. Fujimura Y, et al. **J Viral Hepat** 1996 Mar;3(2):79–84

Dose of non–heat–treated factor VIII concentrate and HIV–1 RNA levels [letter; comment] Montoro JB, et al. **JAMA** 1997 Jan 1;277(1):20–1. Comment on: JAMA 1996 Jul 10;276(2):105–10.

Periarticular aneurysm formation in haemophilia. Saris DB, et al. **Lancet** 1997 Mar 15;349(9054):766–8

Metastatic seminoma simulating malignant lymphoma in an HIV infected hemophiliac. Diaz JI, et al. **Leuk Lymphoma** 1996 Sep;23(1–2):165–71

B non–Hodgkin's lymphoma in a haemophilia patient with idiopathic CD4+ T–lymphocytopenia. Paolini R, et al. **Leuk Lymphoma** 1996 Mar;21(1–2):177–80

Cranial hemophilic pseudotumor: case report. Sim KB, et al. **Neurosurgery** 1996 Dec;39(6):1239–42 (21 ref.)

Interferon–alpha–2b treatment of chronic hepatitis C in children with hemophilia. Zwiener RJ, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):906–8

Haemophilia. Cahill MR, et al. **Postgrad Med J** 1997 Apr; 73(858):201–6 (43 ref.)

HIV heterosexual transmission to stable sexual partners of HIV–infected Brazilian hemophiliacs. Nicolau JE, et al. **Rev Paul Med** 1996 May–Jun;114(3):1186–9

Open synovectomy for the prevention of recurrent hemarthrosis of the ankle in patients with hemophilia. A report of five cases with magnetic resonance imaging documentation. Plazanet F, et al. **Rev Rhum Engl Ed** 1997 Mar;64(3):166–71

Pseudotumor and arthropathy in the knees of a hemophiliac. Gaary E, et al. **Skeletal Radiol** 1996 Jan;25(1):85–7 (18 ref.)

Hemophilic pseudotumor: spectrum of MR findings. Jaovisidha S, et al. **Skeletal Radiol** 1997 Aug;26(8):468–74

A non–parametric test for interval–censored failure time data with application to AIDS studies. Sun J. **Stat Med** 1996 Jul 15;15(13):1387–95

Radiological score in paediatric haemophilic patients with early and late onset of factor VIII–prophylaxis [letter] Dzinaj T, et al. **Thromb Haemost** 1996 Oct;76(4):630–1

Successful electroconvulsive treatment of a schizophrenic patient suffering from severe haemophilia A [letter] Glaub T, et al. **Thromb Haemost** 1996 Jun;75(6):978

Treatment of hemophilic pseudotumor with low–dose radiotherapy. Ozbek N, et al. **Turk J Pediatr** 1996 Jan–Mar; 38(1):91–4

Effect of high– versus intermediate–purity blood coagulation factor concentrates on HIV–1 replication. Schögl D, et al. **Vox Sang** 1996;70(4):195–7

Surgery in hemophilia A patients with factor VIII inhibitor: 10–year experience. Scharf R, et al. **World J Surg** 1996 Nov–Dec;20(9):1171–81

Endoscopic injection treatment of gastrointestinal bleeding in hemophiliacs. Ziemski JM, et al. **World J Surg** 1996 Nov–Dec;20(9):1166–70

[Septic arthritis in an HIV–positive hemophiliac] Bar Dayan Y, et al. **Harefuah** 1996 Sep;131(5–6):145–6, 216 (Eng. Abstr.) **(Heb)**

[Thoracotomy as treatment for pneumothorax associated with pneumocystic carinii pneumonia in a patient with hemophilia A and the acquired immunodeficiency syndrome] Yoshida S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1464–8 (Eng. Abstr.) **(Jpn)**

[Hepatitis GB virus C infection in Japanese hemophiliacs with persistent hepatitis C virus infection] Toyoda H, et al. **Nippon Rinsho** 1997 Mar;55(3):554–8 (Eng. Abstr.) **(Jpn)**

[Salmonella septic arthritis in a hemophiliac with AIDS: aggressive treatment (letter)] Ferré R, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):573–4 **(Spa)**

[Anti–HVC IgM as maker of chronic hepatitis C in hemophiliacs (letter)] Aguilar Franco C, et al. **Rev Clin Esp** 1996 Nov;196(11):799–800 **(Spa)**

[Treatment with interferon alpha of hemophiliacs with chronic hepatitis C (letter)] Aguilar Franco C, et al. **Rev Clin Esp** 1996 Oct;196(10):727–8 **(Spa)**

[Q fever in a hemophiliac patient with HIV infection (letter)] Aguilar C, et al. **Sangre (Barc)** 1995 Dec;40(6):521–2 **(Spa)**

[Virus in hemophilia: current status and future perspectives] Aguilar C, et al. **Sangre (Barc)** 1996 Apr;41(2):141–5 (73 ref.) **(Spa)**

DIAGNOSIS

Prenatal diagnosis of haemophilia. Ljung RC. **Baillieres Clin Haematol** 1996 Jun;9(2):243–57 (23 ref.)

DDAVP infusion in haemophilia A carriers: different behaviour of plasma factor VIII and von Willebrand factor. Casonato A, et al. **Blood Coagul Fibrinolysis** 1996 Jul; 7(5):549–53

Feasibility of prenatal diagnosis and carrier detection in South African haemophilia A patients. Dangerfield BT, et al. **Br J Haematol** 1997 Jun;97(3):558–60

Molecular diagnosis of hemophilia A in Chinese patients by an analysis of inversions in the factor VIII gene. Chen YD, et al. **Hematopathol Mol Hematol** 1996;10(1–2):63–7

Results of a screening for von Willebrand disease type 2N in patients with suspected haemophilia A or von Willebrand disease type 1. Schneppenheim R, et al. **Thromb Haemost** 1996 Oct;76(4):598–602

[Diagnosis of hemophilia A carrier state using analysis of intergenic and intergenic polymorphism of factor VIII gene] Sawecka J, et al. **Pol Arch Med Wewn** 1995 Nov; 94(5):425–31 (Eng. Abstr.) **(Pol)**

[Hemophilia A: analysis of intron 18 and intron 7 of factor VIII gene and their role in a diagnostic strategy for carrier detection in a Chilean population] Quiroga T, et al. **Rev Med Chil** 1996 Jul;124(7):777–84 (Eng. Abstr.) **(Spa)**

[A minor trauma can cause life–threatening bleeding. Varying course in eleven patients] Lindgren A, et al. **Lakartidningen** 1996 Dec 4;93(49):4532; 4534–6 **(Swe)**

DRUG THERAPY

Monitoring but no drug–regimen changes advised for hemophilia patients taking protease inhibitors [news] **Am J Health Syst Pharm** 1996 Sep 1;53(17):1999

Desmopressin nasal spray for hemophilia A and type I von Willebrand disease [letter] Seremetis SV, et al. **Ann Intern Med** 1997 May 1;126(9):744–5

Successful treatment of acquired hemophilia with oral immunosuppressive therapy. Shaffer LG, et al. **Ann Intern Med** 1997 Aug 1;127(3):206–9

Treatment of patients with hemophilia A and inhibitors to factor FVIII with cimetidine. Ambriz Fernandez R, et al. **Arch Med Res** 1996 Spring;27(1):15–8

Recombinant clotting factor concentrates. Lusher JM. **Baillieres Clin Haematol** 1996 Jun;9(2):291–303 (51 ref.)

The choice of plasma–derived clotting factor concentrates. Mannucci PM. **Baillieres Clin Haematol** 1996 Jun; 9(2):273–90 (75 ref.)

Recombinant factor VIIa in joint and muscle bleeding episodes. Bech RM. **Haemostasis** 1996;26 Suppl 1:135–8

Dosing and monitoring NovoSeven treatment. Hedner U. **Haemostasis** 1996;26 Suppl 1:102–8

Major surgery in haemophilic patients with inhibitors using recombinant factor VIIa. Ingerslev J, et al. **Haemostasis** 1996;26 Suppl 1:118–23

Experience with recombinant factor VIIa in Australia and New Zealand. McPherson J, et al. **Haemostasis** 1996;26 Suppl 1:109–17

NovoSeven (recombinant factor VIIa) in centeral nervous systems bleeds. Rice KM, et al. **Haemostasis** 1996;26 Suppl 1:131–4

American experience with home use of NovoSeven: recombinant factor VIIa in hemophiliacs with inhibitors. Shapiro AD. **Haemostasis** 1996;26 Suppl 1:143–9

Thrombelastgram as a hemostatic monitor during recombinant factor VIIa treatment in hemophilia A patients with inhibitor to factor VIII. Yoshioka A, et al. **Haemostasis** 1996;26 Suppl 1:139–42

Attitudes, practices, and infection risks of hemophilia treatment center nurses who teach infection control for the home [see comments] Lobato MN, et al. **Infect Control Hosp Epidemiol** 1996 Nov;17(11):726–31. Comment in: Infect Control Hosp Epidemiol 1996 Nov;17(11):714–7.

The effect of non–activated prothrombin complex concentrate (Proplex ST) on intraperitoneal hematoma in a hemophilia A patient with a factor VIII inhibitor. Kagawa H, et al. **Intern Med** 1996 Apr;35(4):319–22

Haemophilia prophylaxis in young patients—a long–term follow–up. Löfqvist T, et al. **J Intern Med** 1997 May; 241(5):395–400

From the Centers for Disease Control and Prevention. Transmission of hepatitis C virus infection associated with home infusion therapy for hemophilia. **JAMA** 1997 Oct 1;278(13):1057–8

Dose of non–heat–treated factor VIII concentrate and HIV–1 RNA levels [letter; comment] Montoro JB, et al. **JAMA** 1997 Jan 1;277(1):20–1. Comment on: JAMA 1996 Jul 10;276(2):105–10.

Transmission of hepatitis C virus infection associated with home infusion therapy for hemophilia. **MMWR Morb Mortal Wkly Rep** 1997 Jul 4;46(26):597–9

Recombinant, B–domain deleted factor VIII (r–VIII SQ): pharmacokinetics and initial safety aspects in hemophilia A patients. Fijnvandraat K, et al. **Thromb Haemost** 1997 Feb;77(2):298–302

Safety profile of porcine factor VIII and its use as hospital and home–therapy for patients with haemophilia–A and inhibitors: the results of an international survey. Hay CR, et al. **Thromb Haemost** 1996 Jan;75(1):25–9

In vivo studies of activated porcine factor VIII. Littlewood JD, et al. **Thromb Haemost** 1996 Nov;76(5):743–8

Prophylaxis in children with hemophilia: is it the optimal treatment? Lusher JM. **Thromb Haemost** 1997 Jul; 78(1):726–9 (37 ref.)

Rapid elimination of a high–titered F VIII inhibitor by high dose recombinant F VIII combined with high dose immunoglobulin infusion [letter] Mauz–Korholz C, et al. **Thromb Haemost** 1997 Aug;78(2):959

Multicenter retrospective study on the utilization of FEIBA in France in patients with factor VIII and factor IX inhibitors. French FEIBA Study Group. Factor Eight Bypassing Activity. Negrier C, et al. **Thromb Haemost** 1997 Jun;77(6):1113–9

Immunological aspects of recombinant factor VIIa (rFVIIa) in clinical use. Nicolaisen EM, et al. **Thromb Haemost** 1996 Aug;76(2):200–4

Prospective multicenter study on subcutaneous concentrated desmopressin for home treatment of patients with von Willebrand disease and mild or moderate hemophilia A. Rodeghiero F, et al. **Thromb Haemost** 1996 Nov; 76(5):692–6

Factor VIII inhibitor and severity of hemophilia [letter] Schoppmann A, et al. **Thromb Haemost** 1996 Aug; 76(2):280–1

Successful clinical use of a plasma–derived, dual virus inactivated factor VII concentrate incorporating solvent–detergent and dry heat treatment [letter] Smith MP, et al. **Thromb Haemost** 1997 Feb;77(2):406–7

The potential impact of recombinant factor VIII on hemophilia care and the demand for blood and blood products. VanAken WG. **Transfus Med Rev** 1997 Jan; 11(1):6–14 (44 ref.)

Immune Tolerance and the Treatment of Hemophiliacs with an Inhibitor. Proceedings of a workshop. Rome, August 21–23, 1994. **Vox Sang** 1996;70 Suppl 1:1–79

Immune tolerance and the immune modulation protocol. Berntorp E, et al. **Vox Sang** 1996;70 Suppl 1:36–41

Immune tolerance for the treatment of factor VIII inhibitors—twenty years' 'bonn protocol'. Brackmann HH, et al. **Vox Sang** 1996;70 Suppl 1:30–5

Immune tolerance in two high responder, severe hemophilia A patients with inhibitors: the importance of high doses and the duration of the treatment. Ciavarella N, et al. **Vox Sang** 1996;70 Suppl 1:72–3

Induction of tolerance using porcine factor VIII. Hay CR, et al. **Vox Sang** 1996;70 Suppl 1:68–9

Delineating physiological (natural) autoreactivity from pathological autoimmunity. Kazatchkine MD. **Vox Sang** 1996;70 Suppl 1:24–9 (16 ref.)

Epidemiology of inhibitors in haemophilia A. Kreuz W, et al. **Vox Sang** 1996;70 Suppl 1:2–8

The treatment of factor VIII inhibitors—a general overview. White GC, et al. **Vox Sang** 1996;70 Suppl 1:19–23 (10 ref.)

[Immunosuppressive treatment of a spontaneous inhibitor hemophilia A using cyclophosphamide, vincristine and prednisone following prior Factor VIII stimulation] Dürig J, et al. **Schweiz Med Wochenschr** 1996 Nov 23; 126(47):2026–31 (Eng. Abstr.) **(Ger)**

ECONOMICS

The economics of immune tolerance and treatment of hemophiliacs with inhibitors. Kessler CM, et al. **Vox Sang** 1996;70 Suppl 1:74–6

ENZYMOLOGY

Activity of granzyme A, a serine protease in the killing granules of cytotoxic T lymphocytes, is reduced in cells from HIV–infected hemophiliacs. Chiang CF, et al. **AIDS Res Hum Retroviruses** 1996 Feb 10;12(3):235–9

EPIDEMIOLOGY

Hemophilia and AIDS in married men: functioning of family members. Hemophilia PAC Project. Forehand R, et al. **Am J Orthopsychiatry** 1997 Jul;67(3):470–84

Low prevalence of hepatitis G viraemia in haemophilia patients in Australia [letter] Baker R, et al. **Br J Haematol** 1997 Mar;96(3):654–5

Autopsy findings in patients with human immunodeficiency virus infection with emphasis on the risk factor of hemophilia. Bierhoff E, et al. **Gen Diagn Pathol** 1996 May; 141(5–6):295–304

Model of the impact of HIV infection on the size of future hemophilia and carrier birth cohorts. Ragni MV, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Oct 1;13(2):160–8

Update: hemophilia surveillance project [news] **J Okla State Med Assoc** 1997 Feb;90(2):72

Hemophilia and AIDS in Kansas [news] Mehrhof A, et al. **Kans Med** 1995 Winter;96(4):177

[20–year follow–up of hemophiliac patients infected with HIV] Ayala Gaytán JJ, et al. **Rev Invest Clin** 1995 Nov–Dec;47(6):473–6 (Eng. Abstr.) **(Spa)**

[Seroprevalence of hepatitis A in hemophiliacs] Molina R, et al. **Sangre (Barc)** 1996 Oct;41(5):363–5 (Eng. Abstr.) **(Spa)**

HEMOPHILIA

ETIOLOGY

Acquired hemophilia: a rare complication of Sjögren's syndrome. Vignes S, et al. **Clin Exp Rheumatol** 1996 Sep–Oct;14(5):559–60

Acquired haemophilia A in women postpartum: management of bleeding episodes and natural history of the factor VIII inhibitor. Michiels JJ, et al. **Eur J Haematol** 1997 Aug; 59(2):105–9

GENETICS

Molecular etiology of factor VIII deficiency in hemophilia A. Antonarakis SE, et al. **Adv Exp Med Biol** 1995;386:19–34 (60 ref.)

Factor VIII and IX gene polymorphisms and carrier analysis in Indian population. Shetty S, et al. **Am J Hematol** 1997 Apr;54(4):271–5

The locus for combined factor V–factor VIII deficiency (F5F8D) maps to 18q21, between D18S849 and D18S1103. Neerman–Arbez M, et al. **Am J Hum Genet** 1997 Jul; 61(1):143–50

Partial correction of a severe molecular defect in hemophilia A, because of errors during expression of the factor VIII gene. Young M, et al. **Am J Hum Genet** 1997 Mar; 60(3):565–73

Prevalence, male germ-line origin and new patterns of inversions in haemophilia A. Valleix S, et al. **Ann Genet** 1997;40(1):35–40

The molecular basis of haemophilia A and B. Giannelli F, et al. **Baillieres Clin Haematol** 1996 Jun;9(2):211–28 (64 ref.)

Intracellular retention of a factor VIII protein with an Arg2307-->Gln mutation as a cause of haemophilia A. Voorberg J, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):931–7

Further characterization of factor VIII–deficient mice created by gene targeting: RNA and protein studies. Bi L, et al. **Blood** 1996 Nov 1;88(9):3446–50

The missense mutation Arg593 --> Cys is related to antibody formation in a patient with mild hemophilia A. Fijnvandraat K, et al. **Blood** 1997 Jun 15;89(12):4371–7

Loss of tolerance to exogenous and endogenous factor VIII in a mild hemophilia A patient with an Arg593 to Cys mutation. Thompson AR, et al. **Blood** 1997 Sep 1; 90(5):1902–10

Unexpected low prevalence of FVIII gene inversion in severe hemophilia A patients from north-eastern Italy [letter] Vianello F, et al. **Blood Coagul Fibrinolysis** 1996 Oct; 7(7):711–2

Mutations in the FVIII gene in seven families with mild haemophilia A [letter] Mazurier C, et al. **Br J Haematol** 1997 Feb;96(2):426–7

The obstetric experience of carriers of haemophilia. Kadir RA, et al. **Br J Obstet Gynaecol** 1997 Jul;104(7):803–10

A semi-automated method for analysis of intron 13 and intron 22 dinucleotide repeat polymorphisms of the factor VIII gene. Yip B, et al. **Clin Lab Haematol** 1996 Jun;18(2):111–4

Inversion mutation as a major cause of severe hemophilia A in Italian patients. Mori PG, et al. **Haematologica** 1997 Jan–Feb;82(1):75–6

Factor VIII C2 domain missense mutations exhibit defective trafficking of biologically functional proteins. Pipe SW, et al. **J Biol Chem** 1996 Oct 11;271(41):25671–6

Linkage of combined factors V and VIII deficiency to chromosome 18q by homozygosity mapping. Nichols WC, et al. **J Clin Invest** 1997 Feb 15;99(4):596–601

The Factor VIII Mutation Database on the World Wide Web: the haemophilia A mutation, search, test and resource site. HAMSTeRS update (version 3.0). Kemball-Cook G, et al. **Nucleic Acids Res** 1997 Jan 1;25(1):128–32

Amplification of Bcl I region of the factor VIII gene by PCR. Ishak R, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):364–6

Factor VIII Ise (R2159C) in a patient with mild hemophilia A, an abnormal factor VIII with retention of function but modification of C2 epitopes. Suzuki H, et al. **Thromb Haemost** 1997 May;77(5):862–7

Inhibitor development in haemophilia A patients with inversion of the intron 22 of the factor VIII gene [letter] Tizzano EF, et al. **Thromb Haemost** 1996 Jul;76(1):125–6

[Molecular biologic study and the factor VIII gene in hemophilia A] Bock I, et al. **Orv Hetil** 1996 Nov 17; 137(46):2573–5 (Eng. Abstr.) **(Hun)**

[Hemophilia A and inversion in the factor VIII gene] Inaba H, et al. **Rinsho Byori** 1997 Feb;Suppl 104:99–106 (16 ref.) **(Jpn)**

[Diagnosis of hemophilia A carrier state using analysis of intergenic and intergenic polymorphism of factor VIII gene] Sawecka J, et al. **Pol Arch Med Wewn** 1995 Nov; 94(5):425–31 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Tolerance and intolerance to factor VIII: a clinical perspective. Briët E. **Adv Exp Med Biol** 1995;386:193–9 (32 ref.)

Immune tolerance to Factor VIII: the international registry data. Mariani G, et al. **Adv Exp Med Biol** 1995;386:201–8 (19 ref.)

Interferon-alpha treatment and formation of factor VIII antibodies [letter; comment] Makris M, et al. **Ann Intern Med** 1997 May 15;126(10):829; discussion 829–30. Comment on: Ann Intern Med 1996 Aug 15;125(4):297–9.

Interferon-alpha treatment and formation of factor VIII antibodies [letter; comment] Stricker RB. **Ann Intern Med** 1997 May 15;126(10):829; discussion 829–30. Comment on: Ann Intern Med 1996 Aug 15;125(4):297–9.

Inhibitors in congenital haemophilia. Brettler DB. **Baillieres Clin Haematol** 1996 Jun;9(2):319–29 (46 ref.)

The inhibitor antibody response is more complex in hemophilia A patients than in most nonhemophiliacs with factor VIII autoantibodies. Recombinate and Kogenate Study Groups. Prescott R, et al. **Blood** 1997 May 15; 89(10):3663–71

Prevalence of anti–FVIII antibodies in severe haemophilia A patients with inversion of intron 22. Vianello F, et al. **Br J Haematol** 1997 Jun;97(4):807–9

Antibody against human immunodeficiency virus type 1 (HIV-1) Tat protein may have influenced the progression of AIDS in HIV-1–infected hemophiliac patients. Re MC, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):230–2

Anti–factor VIII inhibitor alloantibodies recognizing the A2 domain in the human factor VIII heavy chain poorly bind to porcine factor VIII. Sawamoto Y, et al. **Int J Hematol** 1997 Feb;65(2):151–8

T cell differentiation/maturation of CD34+ stem cells from HIV-seropositive hemophiliacs in cultured thymic epithelial fragments. Ruiz M, et al. **Stem Cells** 1996 Jan; 14(1):132–45

Restricted epitope specificity of anti–FVIII antibodies that appeared during a recent outbreak of inhibitors. Gilles JG, et al. **Thromb Haemost** 1997 May;77(5):938–43

Factor VIII inhibitors. Gilles JG, et al. **Thromb Haemost** 1997 Jul;78(1):641–6 (52 ref.)

HLA class II profile: a weak determinant of factor VIII inhibitor development in severe haemophilia A. UKHCDO Inhibitor Working Party. Hay CR, et al. **Thromb Haemost** 1997 Feb;77(2):234–7

HLA genotype of patients with severe haemophilia A due to intron 22 inversion with and without inhibitors of factor VIII. Oldenburg J, et al. **Thromb Haemost** 1997 Feb; 77(2):238–42

Factor VIII inhibitors in previously treated haemophilia A patients with a double virus–inactivated plasma derived factor VIII concentrate. Peerlinck K, et al. **Thromb Haemost** 1997 Jan;77(1):80–6

T lymphocyte proliferative responses induced by recombinant factor VIII in hemophilia A patients with inhibitors. Singer ST, et al. **Thromb Haemost** 1996 Jul; 76(1):17–22

Graves' disease and autoimmune factor VIII deficiency. Sievert R, et al. **Thyroid** 1996 Jun;6(3):245–7

Soluble interleukin 2 receptor and soluble CD8 levels in previously treated human immunodeficiency virus–negative hemophiliacs multiply transfused with a monoclonal antibody–purified factor VIII concentrate. Smid WM, et al. **Transfusion** 1997 Jan;37(1):86–9

Hepatitis A vaccine responses in HIV–positive persons with haemophilia. Tilzey AJ, et al. **Vaccine** 1996 Aug; 14(11):1039–41

Immune Tolerance and the Treatment of Hemophiliacs with an Inhibitor. Proceedings of a workshop. Rome, August 21–23, 1994. **Vox Sang** 1996;70 Suppl 1:1–79

Inhibitors to coagulation: can we afford immune tolerance induction regimens? Aledort LM. **Vox Sang** 1996;70 Suppl 1:77–8

Induction of immune tolerance, the future of the Registry. Ewing NP. **Vox Sang** 1996;70 Suppl 1:47–51 (43 ref.)

The international registry of immune tolerance: 1994 update. Ghirardini A, et al. **Vox Sang** 1996;70 Suppl 1:42–6

Immunological and laboratory aspects of immune tolerance. Kazatchkine M, et al. **Vox Sang** 1996;70 Suppl 1:52–9

[Acquired autoantibodies against human factor VIII: a new case] Cailleux N, et al. **J Mal Vasc** 1996;21(5):324–8 (Eng. Abstr.) **(Fre)**

[Immunosuppressive treatment of a spontaneous inhibitor hemophilia A using cyclophosphamide, vincristine and prednisone following prior Factor VIII stimulation] Dürig J, et al. **Schweiz Med Wochenschr** 1996 Nov 23; 126(47):2026–31 (Eng. Abstr.) **(Ger)**

[Successful induction of immune tolerance and novel hemostatic effects in a hemophilia A with high-responder inhibitor by regular infusions of factor VIII] Shima M, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1303–8 (Eng. Abstr.) **(Jpn)**

METABOLISM

Nitric oxide production and disease evolution in HIV-infected hemophilic patients [letter] de Bracco MM, et al. **AIDS** 1997 May;11(6):822–4

Recombinant factor IX secreted by transduced human keratinocytes is biologically active. Gerrard AJ, et al. **Br J Haematol** 1996 Dec;95(3):561–3

Interferon-gamma secretion defects in haemophilia A patients receiving highly purified plasma-derived or recombinant factor VIII. Newton-Nash DK, et al. **Br J Haematol** 1996 Dec;95(3):554–60

Growth hormone secretion in HIV–positive versus HIV–negative hemophilic males with abnormal growth and pubertal development. The Hemophilia Growth and Development Study. Ratner Kaufman F, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jun 1;15(2):137–44

NURSING

Immune tolerance: a nursing perspective. Butler RB. **Vox Sang** 1996;70 Suppl 1:70–1

PATHOLOGY

Autopsy findings in patients with human immunodeficiency virus infection with emphasis on the risk factor of hemophilia. Bierhoff E, et al. **Gen Diagn Pathol** 1996 May; 141(5–6):295–304

PHYSIOPATHOLOGY

A hemophilia model in zebrafish: analysis of hemostasis. Jagadeeswaran P, et al. **Blood Cells Mol Dis** 1997;23(1):52–7

Qualitative modeling of normal blood coagulation and its pathological states using stochastic activity networks. Mounts WM, et al. **Int J Biol Macromol** 1997 Jul; 20(4):265–81

Assessment of bleeding for the evaluation of therapeutic preparations in small animal models of antibody-induced hemophilia and von Willebrand disease. Turecek PL, et al. **Thromb Haemost** 1997 Mar;77(3):591–9

PREVENTION & CONTROL

Prophylactic therapy for hemophilia in a developing country, Turkey. Kavakli K, et al. **Pediatr Hematol Oncol** 1997 Mar–Apr;14(2):151–9

PSYCHOLOGY

The role of family processes and coping strategies in the relationship between parental chronic illness and childhood internalizing problems. Steele RG, et al. **J Abnorm Child Psychol** 1997 Apr;25(2):83–94

Correlates of psychological distress among mothers of children and adolescents with hemophilia and HIV infection. Drotar D, et al. **J Pediatr Psychol** 1997 Feb; 22(1):1–14

The factor structure of coping strategies in hemophilia. Santavirta N, et al. **J Psychosom Res** 1996 Jun;40(6):617–24

SURGERY

Myocardial revascularization in a hemophiliac. Nahas C, et al. **Cardiovasc Surg** 1996 Aug;4(4):557–8

Orthopaedic surgery in hemophilia. 20 Years' experience in Sweden. Löfqvist T, et al. **Clin Orthop** 1996 Nov; (332):232–41

Hope for haemophilic patients with hepatitis [comment] Lee CA. **Gut** 1996 Dec;39(96):887–8. Comment on: Gut 1996 Dec;39(96):870–5.

Liver transplantation for haemophiliacs with hepatitis C cirrhosis [see comments] McCarthy M, et al. **Gut** 1996 Dec; 39(96):870–5. Comment in: Gut 1996 Dec;39(96):887–8.

[Complete elbow prosthesis for inflammatory and hemophiliac arthropathy. A retrospective analysis of 22 cases] Chantelot C, et al. **Ann Chir Main Memb Super** 1997; 16(1):49–57 (Eng. Abstr.) **(Fre)**

THERAPY

Management of hemophilias--gene therapy to come? Vajó Z, et al. **Acta Physiol Hung** 1996;84(2):191–8 (27 ref.)

Clinical update on the use of recombinant factor VII. Glazer S, et al. **Adv Exp Med Biol** 1995;386:163–74 (40 ref.)

Porcine factor VIII therapy in patients with factor VIII inhibitors. Hay C, et al. **Adv Exp Med Biol** 1995;386:143–51 (11 ref.)

Apheresis. Nilsson IM, et al. **Adv Exp Med Biol** 1995; 386:175–84

IVIg in the treatment of patients with factor VIII inhibitors. Sultan Y, et al. **Adv Exp Med Biol** 1995;386:185–9

Development of oral lesions in human immunodeficiency virus–infected transfusion recipients and hemophiliacs. Hilton JF, et al. **Am J Epidemiol** 1997 Jan 15;145(2):164–74

Use of plasma exchange in hereditary deficiency of factor V and factor VIII. Sallah AS, et al. **Am J Hematol** 1996 Jul;52(3):229–30

Treatment of inherited coagulation disorders [letter; comment] Goldsmith JC. **Am J Med** 1996 Oct;101(4):448 . Comment on: Am J Med 1995 Dec;99(6):675–82.

The treatment of haemophilia, including prophylaxis, constant infusion and DDAVP. Berntorp E. **Baillieres Clin Haematol** 1996 Jun;9(2):259–71 (54 ref.)

Gene therapy for haemophilia. Pasi KJ. **Baillieres Clin Haematol** 1996 Jun;9(2):305–17 (31 ref.)

Complete short-term correction of canine hemophilia A by in vivo gene therapy. Connelly S, et al. **Blood** 1996 Nov 15;88(10):3846–53

Recommendations for the treatment of factor VIII inhibitors: from the UK Haemophilia Centre Directors' Organisation Inhibitor Working Party. Hay CR, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):134–8

Treatment for haemophilia by postcode [letter] [see comments] Ludlam CA, et al. **BMJ** 1997 Mar 8; 314(7082):749. Comment in: BMJ 1997 Jun 28;314(7098):1907.

Treatment for haemophilia by calendar in Hungary [letter; comment] Sas G. **BMJ** 1997 Jun 28;314(7098):1907. Comment on: BMJ 1997 Mar 8;314(7082):749.

Low response to high-dose intravenous immunoglobulin in the treatment of acquired factor VIII inhibitor. Crenier L, et al. **Br J Haematol** 1996 Dec;95(4):750–3

Postoperative management of hemophilia A and low titer inhibitor at home using factor VIII continuous infusion. Travis SF, et al. **Clin Pediatr (Phila)** 1996 Jan;35(1):40–2

Gene therapy for the haemophilias [editorial] Jones LK, et al. **Gene Ther** 1995 Dec;2(10):699–701

Expression of factor VII by muscle cells in vitro and in vivo following direct gene transfer: modelling gene therapy for haemophilia [published erratum appears in Gene Ther 1996 Aug;3(8):740] Miller G, et al. **Gene Ther** 1995 Dec; 2(10):736–42

New Aspects of Haemophilia Treatment. Proceedings of the 3rd symposium. Copenhagen, Denmark, September 21–23, 1995. **Haemostasis** 1996;26 Suppl 1:1–166

Gut epithelial cells as targets for gene therapy of hemophilia. Lozier JN, et al. **Hum Gene Ther** 1997 Aug 10; 8(12):1481–90

Retroviral–mediated in vivo gene transfer into muscle cells and synthesis of human factor IX in mice. Baru M, et al. **Intervirology** 1995;38(6):356–60

An ex vivo keratinocyte model for gene therapy of hemophilia B. Page SM, et al. **J Invest Dermatol** 1997 Aug; 109(2):139–45

Recombinant factor VIII: are we really getting more for less? [editorial; comment] Gorlin JB, et al. **J Pediatr** 1997 Apr; 130(4):507–9. Comment on: J Pediatr 1997 Apr;130(4):537–40.

Superior in vivo response of recombinant factor VIII concentrate in children with hemophilia A [see comments] Kelly KM, et al. **J Pediatr** 1997 Apr;130(4):537–40. Comment in: J Pediatr 1997 Apr;130(4):507–9.

The use of implantable venous access devices (IVADs) in children with hemophilia. Perkins JL, et al. **J Pediatr Hematol Oncol** 1997 Jul–Aug;19(4):339–44

Prophylactic therapy programs for hemophilia in developing countries [editorial] Willoughby ML. **Pediatr Hematol Oncol** 1997 Mar–Apr;14(2):ix–xii

Magnetic resonance imaging of myocardial infarction during prothrombin complex concentrate therapy of hemophilia A. Gruen DR, et al. **Pediatr Radiol** 1997 Mar;27(3):271–2

Haemophilia. Cahill MR, et al. **Postgrad Med J** 1997 Apr; 73(858):201–6 (43 ref.)

Gene therapy for hemophilia A. Connelly S, et al. **Thromb Haemost** 1997 Jul;78(1):31–6 (70 ref.)

Restricted epitope specificity of anti–FVIII antibodies that appeared during a recent outbreak of inhibitors. Gilles JG, et al. **Thromb Haemost** 1997 May;77(5):938–43

Oliver Memorial Lecture 1989. The evolution and future of haemophilia therapy. Bloom AL. **Transfus Med** 1991 Mar; 1(1):5–12 (43 ref.)

Soluble interleukin 2 receptor and soluble CD8 levels in previously treated human immunodeficiency virus–negative hemophiliacs multiply transfused with a monoclonal antibody–purified factor VIII concentrate. Smid WM, et al. **Transfusion** 1997 Jan;37(1):86–9

[Genetic therapy for hemophiliacs––therapeutic potential and technological limits] Michou AI, et al. **Transfus Clin Biol** 1997;4(3):251–61 (25 ref.) (Eng. Abstr.) **(Fre)**

[Prostate carcinoma associated spontaneous factor VIII:C inhibitor hemophilia. Successful therapy of severe hemorrhagic complication with porcine factor VIII in a 75–year–old patient] Orth T, et al. **Med Klin** 1997 Apr 15;92(4):241–5 (Eng. Abstr.) **(Ger)**

[Intraoperative use of plasma–derived activated factor VII (F VII a) in a hemophilia A patient with inhibitors] Matsuyama K, et al. **Masui** 1996 Feb;45(2):235–8 (Eng. Abstr.) **(Jpn)**

[Reality and clinical application of blood coagulation factor preparations] Sakuragawa N. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):811–7 (5 ref.) **(Jpn)**

[Successful induction of immune tolerance and novel hemostatic effects in a hemophilia A with high–responder inhibitor by regular infusions of factor VIII] Shima M, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1303–8 (Eng. Abstr.) **(Jpn)**

[The combined conservative and surgical treatment of joint diseases in hemophilia patients] Kargin VD, et al. **Klin Med (Mosk)** 1996;74(2):66 **(Rus)**

[Recombinant factor VIIa. A new alternative for patients with hemophilia] Tengborn L. **Lakartidningen** 1997 Jan 15; 94(3):140–2 (22 ref.) **(Swe)**

VETERINARY

Hemophilia A in a German shorthaired pointer: clinical presentations and diagnosis. Joseph SA, et al. **J Am Anim Hosp Assoc** 1996 Jan–Feb;32(1):25–8

The problem of inherited diseases. 3: Haemophilia in the German Shepherd [news] Tennant B. **J Small Anim Pract** 1996 Aug;37(8):405–6

Studies to detect carriers of haemophilia A in German shepherd dogs using diagnostic DNA polymorphisms in the human factor VIII gene. Clark P, et al. **Vet J** 1997 Jan;153(1):71–4

[Hemophilia A in the dog: symptoms, blood coagulation analysis and treatment] Mischke R, et al. **Berl Munch Tierarztl Wochenschr** 1996 Aug;109(8):279–87 (Eng. Abstr.) **(Ger)**

VIROLOGY

Hepatitis C virus in saliva of haemophiliac patients attending an oral surgery unit. Roy KM, et al. **Br J Oral Maxillofac Surg** 1996 Apr;34(2):162–5

Predictor of the rate of CD4 lymphocyte loss in HIV–1–seropositive asymptomatic hemophiliacs by in vitro immunoglobulin synthesis. Cavallin F, et al. **Clin Immunol Immunopathol** 1996 Dec;81(3):224–8

Serum beta 2–microglobulin at HIV–1 seroconversion as a predictor of severe immunodeficiency during 10 years of followup. Phillips AN, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):262–6

Model of the impact of HIV infection on the size of future hemophilia and carrier birth cohorts. Ragni MV, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Oct 1;13(2):160–8

Hepatitis C virus genotypes in a cohort of Australian blood donors and haemophiliac and liver transplant patients. Chen J, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):182–7

Hepatitis C virus genotypes in French haemophiliacs: kinetics and reappraisal of mixed infections. Tuveri R, et al. **J Med Virol** 1997 Jan;51(1):36–41

Longitudinal genotype analysis and quantification of hepatitis C virus in haemophilic patients receiving interferon–alpha therapy. Devereux H, et al. **J Viral Hepat** 1996 Jan; 3(1):43–8

The incidence of viremia and the heterogeneity of hepatitis C virus genotypes among blood donors, hemophiliacs and patients with chronic liver disease. Kuperan P, et al. **Pathology** 1996 Nov;28(4):348–51

Hepatitis C virus type 4 in Portuguese haemophiliacs [letter] Araújo F, et al. **Thromb Haemost** 1997 Apr;77(4):805

The prevalence of antibody to parvovirus B19 in hemophiliacs and in the general population. Eis–Hübinger AM, et al. **Zentralbl Bakteriol** 1996 Jul;284(2–3):232–40

[Hemophilia and infection (editorial; comment)] Tusell JM. **Med Clin (Barc)** 1997 May 3;108(17):658–62. Comment on: Med Clin (Barc) 1997 May 3;108(17):641–6. **(Spa)**

HEMOPHILIA A see **HEMOPHILIA**

HEMOPHILIA B see **CHRISTMAS DISEASE**

HEMOPHILIA C see **FACTOR XI DEFICIENCY**

HEMOPHILIA, VASCULAR see **VON WILLEBRAND'S DISEASE**

HEMOPHILUS see **HAEMOPHILUS**

HEMOPHILUS INFECTIONS see **HAEMOPHILUS INFECTIONS**

HEMOPHTHALMOS see **EYE HEMORRHAGE**

HEMOPNEUMOTHORAX

Spontaneous hemopneumothorax. Tatebe S, et al. **Ann Thorac Surg** 1996 Oct;62(4):1011–5

DIAGNOSIS

Minimally invasive therapy in diagnosis and treatment of spontaneous haematopneumothorax [editorial] Siegel JH. **Eur J Emerg Med** 1997 Mar;4(1):3–4

Hemopneumothorax missed by auscultation in penetrating chest injury. Chen SC, et al. **J Trauma** 1997 Jan;42(1):86–9

[The effect of performance of diagnostic and therapeutic procedures on successful treatment of hemopneumothorax in isolated thoracic trauma] Subotić D, et al. **Acta Chir Iugosl** 1995;42(1):49–54 (Eng. Abstr.) **(Scr)**

RADIOGRAPHY

Emergency treatment of life–threatening spontaneous haematopneumothorax. Meysman M, et al. **Eur J Emerg Med** 1996 Dec;3(4):274–6

SURGERY

Emergency treatment of life–threatening spontaneous haematopneumothorax. Meysman M, et al. **Eur J Emerg Med** 1996 Dec;3(4):274–6

Minimally invasive therapy in diagnosis and treatment of spontaneous haematopneumothorax [editorial] Siegel JH. **Eur J Emerg Med** 1997 Mar;4(1):3–4

Video–assisted thoracoscopic surgery for spontaneous hemopneumothorax. Tatebe S, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):113–5

[A case report of spontaneous hemopneumothorax] Konobu T, et al. **Kyobu Geka** 1997 May;50(5):425–7 (Eng. Abstr.) **(Jpn)**

[Two clinical case of spontaneous hemopneumothorax caused by aberrant vessel] Muraoka M, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul;45(7):1028–33 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Emergency surgery making use of video–assisted thoracoscopy––2 case reports] Yamada K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Apr;45(4):632–4 (Eng. Abstr.) **(Jpn)**

THERAPY

[The effect of performance of diagnostic and therapeutic procedures on successful treatment of hemopneumothorax in isolated thoracic trauma] Subotić D, et al. **Acta Chir Iugosl** 1995;42(1):49–54 (Eng. Abstr.) **(Scr)**

HEMOPTYSIS

Hemoptysis: etiology, evaluation, and outcome in a tertiary referral hospital. Hirshberg B, et al. **Chest** 1997 Aug; 112(2):440–4

Hemoptysis from an emphysematous bulla developing after open–heart surgery: report of a case. Nakajima J, et al. **Surg Today** 1997;27(3):266–8

Recurrence of ANCA–associated microscopic polyangiitis after cadaveric renal transplant. Le Mao G, et al. **Transplant Proc** 1996 Oct;28(5):2803–4

CHEMICALLY INDUCED

Very early onset of acute amiodarone pulmonary toxicity presenting with hemoptysis. Goldstein I, et al. **Chest** 1997 May;111(5):1446–7

Diffuse pulmonary hemorrhage after streptokinase administration for acute myocardial infarction. Swanson GA, et al. **Pharmacotherapy** 1997 Mar–Apr;17(2):390–4

COMPLICATIONS

A 69–year–old woman with hemoptysis, bilateral alveolar infiltrates, and microscopic hematuria. Hasday JD, et al. **Md Med J** 1997 Aug;46(7):367–74

DIAGNOSIS

Clubbing, arthralgia and haemoptysis in a patient with metastatic carcinoma of the breast [letter] Gregory RK, et al. **Ann Oncol** 1996 Sep;7(7):756–7 (4 ref.)

Catamenial hemoptysis. Diagnosis with MRI. Cassina PC, et al. **Chest** 1997 May;111(5):1447–50

Hemoptysis as the presenting symptom in bronchiolitis obliterans organizing pneumonia. Mroz BJ, et al. **Chest** 1997 Jun;111(6):1775–8 (11 ref.)

Endobronchial hamartoma presenting as massive haemoptysis. Sharkey RA, et al. **Eur Respir J** 1996 Oct; 9(10):2179–80

False left ventricular aneurysm with ventriculo–bronchial fistula and massive haemoptysis. Camero LG, et al. **Scand Cardiovasc J** 1997;31(2):117–9

[Guideline on the management of threatening hemoptysis. The SEPAR Working Group] **Arch Bronconeumol** 1997 Jan;33(1):31–40 **(Spa)**

DRUG THERAPY

Photodynamic therapy to control life–threatening hemorrhage from hereditary hemorrhagic telangiectasia. McCaughan JS Jr, et al. **Lasers Surg Med** 1996;19(4):492–4

ETIOLOGY

Haemoptysis and rapid onset respiratory failure in a patient with pulmonary epithelioid haemangioendothelioma [letter] Gabbay E, et al. **Aust N Z J Med** 1996 Oct;26(5):712–3

Haemoptysis: a rare cause. Hynes JE, et al. **Br J Radiol** 1997 Mar;70:317–8

Negative pressure induced airway and pulmonary injury. Bhavani–Shankar K, et al. **Can J Anaesth** 1997 Jan; 44(1):78–81

Detecting lung cancer as a cause of hemoptysis in patients with a normal chest radiograph: bronchoscopy vs CT [see comments] Colice GL. **Chest** 1997 Apr;111(4):877–84. Comment in: Chest 1997 Apr;111(4):842–3.

Hemoptysis and unilateral intra–alveolar hemorrhage complicating intravenous thrombolysis for myocardial infarction. Hammoudeh AJ, et al. **Clin Cardiol** 1996 Jul; 19(7):595–6

Fatal haemoptysis due to pulmonary artery aneurysm in Behçet's disease. Gebitekin C, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):233–6

A patient with haemoptysis and a smaller right lung. Kuo PH, et al. **Eur Respir J** 1996 Apr;9(4):847–9

Recurrent hemoptysis in a young male. Mohan A, et al. **Indian J Chest Dis Allied Sci** 1997 Jan–Mar;39(1):47–50

Endovascular stenting of an aortopulmonary fistula presenting with hemoptysis. A case report. Campagna AC, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):643–6

Massive hemoptysis in a child due to pulmonary arteriovenous malformation. Chung Y, et al. **J Emerg Med** 1997 May–Jun;15(3):317–9

Mediastinal teratoma presenting as massive hemoptysis in an adult. Gunes S, et al. **J Emerg Med** 1997 May–Jun; 15(3):313–6 (14 ref.)

Pulmonary vascular obstructive disease and hemoptysis in a child with tetralogy of Fallot and patent ductus arteriosus. Liang CD, et al. **J Formos Med Assoc** 1997 Feb;96(2):121–4

A female with aneurysm of aortic arch due to lung cancer [clinical conference] Kikuchi K, et al. **Keio J Med** 1997 Jun;46(2):90–3

A mechanic who coughed up blood for 15 months. Buchanan JA, et al. **Lancet** 1997 Jul 5;350(9070):28

Case records of the University of Maryland and Baltimore VA Medical Centers. A 73–year–old woman with hemoptysis and shortness of breath [clinical conference] Shanholtz C. **Md Med J** 1997 Mar;46(3):131–7

Hemoptysis in sarcoidosis: a case report. Parker AL, et al. **Med Health R I** 1996 Sep;79(9):328–30

Case records of the Massachusetts General Hospital. Weekly

clinicopathological exercises. Case 33–1997. A 75–year–old man with chest pain, hemoptysis, and a pulmonary lesion [clinical conference] **N Engl J Med** 1997 Oct 23; 337(17):1220–6

Major hemoptysis in a child with cystic fibrosis from multiple aberrant bronchial arteries treated with tranexamic acid. Chang AB, et al. **Pediatr Pulmonol** 1996 Dec;22(6):416–20

Hemoptysis in children. Pianosi P, et al. **Pediatr Rev** 1996 Oct;17(10):344–8

Overlooked inhaled foreign bodies: late sequelae and the likelihood of recovery. al–Majed SA, et al. **Respir Med** 1997 May;91(5):293–6

Large bilateral pulmonary artery aneurysms in Behçet's disease: rupture of the contralateral lesion after aneurysmorrhaphy. de Montpréville VT, et al. **Respiration** 1996;63(1):49–51

Oesophagobronchial fistula through a midoesophageal diverticulum associated with fatal pulmonary bleeding. Svane S. **Scand Cardiovasc J** 1997;31(4):243–4

Salvage lung resection for massive hemoptysis after resolution of pulmonary aspergillosis in a patient with acute leukemia. Venuta F, et al. **Scand Cardiovasc J** 1997; 31(1):51–3

Accessory cardiac bronchus presenting with haemoptysis. Keane MP, et al. **Thorax** 1997 May;52(5):490–1

[Clinical judgement and decision making in practice. A patient with hemoptysis] Stehouwer CD, et al. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):515–20 (9 ref.) (Eng. Abstr.) **(Dut)**

[Hemoptysis caused by pulmonary arterial aneurysm, disclosing Behçet disease. Apropos of 2 cases] Kooli C, et al. **Rev Pneumol Clin** 1997;53(1):51–6 (Eng. Abstr.) **(Fre)**

[An operative case of suture–granuloma which resulted from an intra–pulmonary treatment 10 years ago and manifested hemoptysis] Baba K, et al. **Kyobu Geka** 1996 Nov; 49(12):1048–51 (Eng. Abstr.) **(Jpn)**

[A case of Pryce's type I pulmonary sequestration with hemoptysis and bruit] Tamaki T, et al. **Kyobu Geka** 1996 Nov;49(12):1040–3 (7 ref.) (Eng. Abstr.) **(Jpn)**

[Massive hemoptysis in a patient with a tuberculous thoracic aneurysm] Hatakeyama S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Jan; 35(1):106–10 (Eng. Abstr.) **(Jpn)**

[Massive hemoptysis associated with tracheopathia osteochondroplastica] Fernandez–Fernandez FJ, et al. **An Med Interna** 1996 Feb;13(2):73–4 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

Transcatheter indigeneous coil embolization in recurrent massive hemoptysis secondary to post–tubercular bronchiectasis. Sharma S, et al. **J Assoc Physicians India** 1995 Feb;43(2):127–9

Control of tubercular haemoptysis by bronchial artery embolization. Mani S, et al. **Trop Doct** 1997 Jul;27(3):149–50

PATHOLOGY

Hemoptysis, hepatopulmonary syndrome, and respiratory failure: clinical conference on management dilemmas [clinical conference] Schnader J, et al. **Chest** 1997 Jun; 111(6):1724–32

RADIOGRAPHY

A patient with haemoptysis, rapidly changing pulmonary infiltrates and left flank pain. Lai YP, et al. **Eur Respir J** 1996 Oct;9(10):2184–7

Measuring the clinical impact of thoracic computed tomographic scanning [editorial] Turner MO. **Thorax** 1997 May;52(5):404–6

[Interventional radiology in thoracic emergencies] Florio FP, et al. **Minerva Med** 1997 Jan–Feb;88(1–2):31–8 (16 ref.) (Eng. Abstr.) **(Ita)**

RADIONUCLIDE IMAGING

Massive cardiac Ga–67 uptake in a child with pulmonary hypertension, heart failure, and bleeding. Karimeddini MK, et al. **Clin Nucl Med** 1997 Feb;22(2):128–9

SURGERY

Severe hemoptysis requiring lobectomy in an 11–year–old patient with Kartagener's syndrome. Schwarzenberg H, et al. **Ann Thorac Surg** 1997 Sep;64(3):852–4

Salvage lung resection for massive hemoptysis after resolution of pulmonary aspergillosis in a patient with acute leukemia. Venuta F, et al. **Scand Cardiovasc J** 1997; 31(1):51–3

THERAPY

Massive hemoptysis in pregnancy treated with bronchial artery embolization. Downs TW, et al. **Am J Perinatol** 1997 Jan;14(1):51–3

Embolization of apparently normal pulmonary arteries as a treatment for hemoptysis: case report. Millward SF, et al. **Can Assoc Radiol J** 1997 Feb;48(1):19–21

Treatment of massive haemoptysis with microcoil embolization after en bloc double–lung transplantation with bronchial artery revascularization. Carlsen J, et al. **Eur Respir J** 1997 Feb;10(2):492–3

Transcatheter indigeneous coil embolization in recurrent massive hemoptysis secondary to post–tubercular bronchiectasis. Sharma S, et al. **J Assoc Physicians India** 1995 Feb;43(2):127–9

Superselective bronchial artery embolization for hemoptysis with a coaxial microcatheter system. Tanaka N, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):65–70

The factors related to recurrence after transcatheter arterial embolization for the treatment of hemoptysis. Kim KJ, et al. **Korean J Intern Med** 1997 Jan;12(1):45–51

Major hemoptysis in a child with cystic fibrosis from multiple aberrant bronchial arteries treated with tranexamic acid. Chang AB, et al. **Pediatr Pulmonol** 1996 Dec;22(6):416–20

Treatment of recurrent hemoptysis in a child with cystic fibrosis by repeated bronchial artery embolizations and long–term tranexamic acid. Wong LT, et al. **Pediatr Pulmonol** 1996 Oct;22(4):275–9

Control of massive hemoptysis due to pulmonary tuberculosis with bronchial arterial embolization [letter; comment] Lampmann LE. **Radiology** 1997 Sep;204(3):875–6. Comment on: Radiology 1996 Sep;200(3):691–4.

Control of tubercular haemoptysis by bronchial artery embolization. Mani S, et al. **Trop Doct** 1997 Jul;27(3):149–50

[Investigation of complications of bronchial artery embolization using superselective catheter system and platinum coil–major complications as vascular detachment] Adachi T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):846–50 (Eng. Abstr.) **(Jpn)**

[Two cases of recurrent, massive hemoptysis with contralateral, concurrent hemoptysis] Hamamoto Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):785–9 (Eng. Abstr.) **(Jpn)**

[Guideline on the management of threatening hemoptysis. The SEPAR Working Group] **Arch Bronconeumol** 1997 Jan;33(1):31–40 **(Spa)**

HEMORHEOLOGY

Hemodynamic changes in recurrent intracranial terminal aneurysm after endovascular treatment. Banerjee RK, et al. **Acad Radiol** 1996 Mar;3(3):202–11

Haemorheology in insulin–dependent diabetes is still normal five years after onset of the disease. Sandhagen B, et al. **Acta Paediatr Suppl** 1997 Feb;418:21–3

Effect of perfluorochemical emulsion on hemorheology and shear induced blood trauma. Possible mechanisms and future applications. Kameneva MV, et al. **Adv Exp Med Biol** 1997;411:383–90

Flow dynamics in a fatal aneurysm of the basilar artery. Kerber CW, et al. **AJNR Am J Neuroradiol** 1996 Sep; 17(8):1417–21

Estimation of shear and flow rates in pial arterioles during somatosensory stimulation. Ngai AC, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1712–7

Neutrophil rheologic changes in septic shock. Yodice PC, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):38–42

Stratified multiphase model for blood flow in a venular bifurcation. Das B, et al. **Ann Biomed Eng** 1997 Jan–Feb; 25(1):135–53 (32 ref.)

Analysis of pig's coronary arterial blood flow with detailed anatomical data. Kassab GS, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):204–17

Steady flow velocity field and turbulent stress mappings downstream of a porcine bioprosthetic aortic valve in vitro. Lim WL, et al. **Ann Biomed Eng** 1997 Jan–Feb;25(1):86–95

Relative involvement of GPIb/IX–vWF axis and GPIIb/IIIa in thrombus growth at high shear rates in the guinea pig. André P, et al. **Arterioscler Thromb Vasc Biol** 1997 May; 17(5):919–24

Mechanisms involved in endothelial responses to hemodynamic forces. Davies PF. **Atherosclerosis** 1997 Jun; 131 Suppl:S15–7 (18 ref.)

The effects of temperature on the filtration of diluted blood through 3 mu m and 5 mu m filters. Adams RA, et al. **Biorheology** 1995 Nov–Dec;32(6):643–53

Flow–pressure drop measurement and calculation in a tapered femoral artery of a dog. Banerjee RK, et al. **Biorheology** 1995 Nov–Dec;32(6):655–84

Nonlinear viscoelasticity and the thrombelastograph: 1. Studies on bovine plasma clots. Burghardt WR, et al. **Biorheology** 1995 Nov–Dec;32(6):621–30

Analysis of flow acceleration during erythrocyte filtration: dependence of hematocrit and cell rigidity. Lindmark K, et al. **Biorheology** 1996 Jul–Oct;33(4–5):379–95

Effects of sedimentation of small red blood cell aggregates on blood flow in narrow horizontal tubes. Murata T. **Biorheology** 1996 May–Jun;33(3):267–83

Optimum kinetic energy dissipation in blood flow in glass capillaries by flow field determination: analysis of curvature effect by axial tomographic and image velocimetry techniques. Prakash B, et al. **Biorheology** 1996 Jan–Feb; 33(1):59–74

The effect of blood viscoelasticity on pulsatile flow in stationary and axially moving tubes. Sharp MK, et al. **Biorheology** 1996 May–Jun;33(3):185–208

A blood analog for laser–induced photochemical anemometry. Sharp MK, et al. **Biorheology** 1996 Nov–Dec; 33(6):471–6

Changes in HL–60 cell deformability during differentiation induced by DMSO. Tsai MA, et al. **Biorheology** 1996 Jan–Feb;33(1):1–15

The superposition of steady on oscillatory shear and its effect on the viscoelasticity of human blood and a blood–like model fluid. Vlastos G, et al. **Biorheology** 1997 Jan–Feb; 34(1):19–36

Wall shear rate measurements in an elastic curved artery model. Weston MW, et al. **Biorheology** 1997 Jan–Feb; 34(1):1–17

Fluid shear stress modulates von Willebrand factor release from human vascular endothelium. Galbusera M, et al. **Blood** 1997 Aug 15;90(4):1558–64

Platelet and fibrin deposition at the damaged vessel wall: cooperative substrates for neutrophil adhesion under flow conditions. Kuijper PH, et al. **Blood** 1997 Jan 1;89(1):166–75

Impaired hemorheology in patients with postmastectomy lymphedema. Djavanmard MP, et al. **Breast Cancer Res Treat** 1996;38(3):283–8

Integrated regulation of pressure and flow in the coronary microcirculation. Muller JM, et al. **Cardiovasc Res** 1996 Oct;32(4):668–78 (59 ref.)

Shear stress modulates expression of Cu/Zn superoxide dismutase in human aortic endothelial cells. Inoue N, et al. **Circ Res** 1996 Jul;79(1):32–7

Exercise test: trend of the leukocyte flow properties, polymorphonuclear membrane fluidity and cytosolic Ca2+ content in normals, in subjects with previous acute myocardial infarction and in subjects with aortocoronary by–pass. Caimi G, et al. **Clin Hemorheol Microcirc** 1997 Mar–Apr;17(2):127–35

The role of blood rheology in regulating blood pressure. London M. **Clin Hemorheol Microcirc** 1997 Mar–Apr; 17(2):93–106 (58 ref.)

Hemorheology, plasma protein composition and von Willebrand factor in type I diabetic nephropathy. Zimmermann J, et al. **Clin Nephrol** 1996 Oct;46(4):230–6

Gene regulation by mechanical forces. Oluwole BO, et al. **Endothelium** 1997;5(2):85–93 (29 ref.)

Vessel wall and flow characteristics after carotid endarterectomy: eversion endarterectomy compared with Dacron patch plasty. Baan J Jr, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):583–91

Development of an in vitro model to study the response of saphenous vein endothelium to pulsatile arterial flow and circumferential deformation. Golledge J, et al. **Eur J Vasc Endovasc Surg** 1997 Jun;13(6):605–12

Wall shear stress and early atherosclerotic lesions in the abdominal aorta in young adults. Pedersen EM, et al. **Eur J Vasc Endovasc Surg** 1997 May;13(5):443–51

Haemorheology in patients with branch retinal vein occlusion with and without risk factors. Remky A, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S8–12

Influence of low molecular weight hydroxyethyl starch (HES 40/0.5–0.55) on hemostasis and hemorheology. Treib J, et al. **Haemostasis** 1996 Sep–Oct;26(5):258–65

Hemorheological profile in patients with cardiovascular risk factors. Vayá A, et al. **Haemostasis** 1996 Oct;26 Suppl 4:166–70

Pathophysiology of vaso–occlusion. Ballas SK, et al. **Hematol Oncol Clin North Am** 1996 Dec;10(6):1221–39 (132 ref.)

Pressure wave propagation in arteries. A model with radial dilatation for simulating the behavior of a real artery. Wang YY, et al. **IEEE Eng Med Biol Mag** 1997 Jan–Feb; 16(1):51–6

Platelets mediate tumor cell adhesion to the subendothelium under flow conditions: involvement of platelet GPIIb–IIIa and tumor cell alpha(v) integrins. Dardik R, et al. **Int J Cancer** 1997 Jan 17;70(2):201–7

Cardiovascular effects of exercise: role of endothelial shear stress. Niebauer J, et al. **J Am Coll Cardiol** 1996 Dec; 28(7):1652–60

In vitro evaluation of forward and reverse volumetric flow across a regurgitant aortic valve using Doppler power–weighted mean velocities. Minich LL, et al. **J Am Soc Echocardiogr** 1997 Jul–Aug;10(6):623–31

Autotransfusion after total knee arthroplasty. Effects on blood cells, plasma chemistry, and whole blood rheology. Dalén T, et al. **J Arthroplasty** 1997 Aug;12(5):517–25

Effects of coronary artery diseases on haemorheological parameters and trace elements. Barutçu UB, et al. **J Basic Clin Physiol Pharmacol** 1995;6(3–4):289–94

Waves in initially stressed fluid–filled thick tubes. Demiray H. **J Biomech** 1997 Mar;30(3):273–6

A numerical fluid mechanical study of repaired congenital heart defects. Application to the total cavopulmonary connection. Dubini G, et al. **J Biomech** 1996 Jan; 29(1):111–21

Intimal thickening under shear in a carotid bifurcation—a numerical study. Lee D, et al. **J Biomech** 1996 Jan; 29(1):1–11

A novel video technique for visualizing flow structures in cardiovascular models. Shortland AP, et al. **J Biomech** 1996 Feb;29(2):239–44

The accuracy of magnetic resonance phase velocity measurements in stenotic flow. Siegel JM Jr, et al. **J Biomech** 1996 Dec;29(12):1665–72

On the wave transmission and reflection properties of stenoses. Stergiopulos N, et al. **J Biomech** 1996 Jan; 29(1):31–8

Compliance and diameter mismatch affect the wall shear rate distribution near an end–to–end anastomosis. Weston MW, et al. **J Biomech** 1996 Feb;29(2):187–98

Modeling of flow in a straight stented and nonstented side wall aneurysm model. Aenis M, et al. **J Biomech Eng** 1997

May;119(2):206–12
Measurements of velocity and wall shear stress inside a PTFE vascular graft model under steady flow conditions. Loth F, et al. **J Biomech Eng** 1997 May;119(2):187–94
Quantitative characterization of vascular endothelial cell morphology and orientation using Fourier transform analysis. Palmer BM, et al. **J Biomech Eng** 1997 May; 119(2):159–65
The influence of the blunting of the apex on the flow in a vertebro–basilar junction model. Ravensbergen J, et al. **J Biomech Eng** 1997 May;119(2):195–205
Experimental investigation of pulsatile flows in tubes. Shi ZD, et al. **J Biomech Eng** 1997 May;119(2):213–6
Mechanism of endothelial cell shape change and cytoskeletal remodeling in response to fluid shear stress. Malek AM, et al. **J Cell Sci** 1996 Apr;109 (Pt 4):713–26
New color Doppler technique for detecting turbulent tumor blood flow: a possible aid to hepatocellular carcinoma diagnosis. Yasuhara K, et al. **J Clin Ultrasound** 1997 May; 25(4):183–8
Endothelial P-selectin and VCAM–1 each can function as primary adhesive mechanisms for T cells under conditions of flow. Konstantopoulos K, et al. **J Leukoc Biol** 1997 Feb; 61(2):179–87
Hemorrheologic effects of pyrimido–pyrimidine derivatives. Ambrus JL, et al. **J Med** 1996;27(1–2):21–32
A comparison of the hydrodynamical behaviour of three heart aortic prostheses by numerical methods. Cerrolaza M, et al. **J Med Eng Technol** 1996 Nov–Dec;20(6):219–28
Hemorheologic profiles of plasma fibrinogen and blood viscosity from silent to acute and chronic cerebral infarctions. Tsuda Y, et al. **J Neurol Sci** 1997 Mar 20; 147(1):49–54
Localisation of endothelin–1 in rat aortae, the relationship to flow and elastic tissue tears. Jones GT, et al. **J Vasc Res** 1996 Sep–Oct;33(5):425–31
Computational design of a bypass graft that minimizes wall shear stress gradients in the region of the distal anastomosis. Lei M, et al. **J Vasc Surg** 1997 Apr;25(4):637–46
Acute myocardial infarction plasma augments platelet thrombus growth in high shear rates [letter] Goto S, et al. **Lancet** 1997 Feb 22;349(9051):543–4
Computerised multiparametric analysis from images of blood flow through frog mesenteric arterial bifurcation. Umrani J, et al. **Med Biol Eng Comput** 1997 Jul;35(4):373–80
Vascular communication and endothelial cell function in the control of arteriolar flow distribution. Frame MD, et al. **Microcirculation** 1996 Jun;3(2):233–5 (11 ref.)
The role of mechanical stresses in microvascular remodeling. Skalak TC, et al. **Microcirculation** 1996 Jun;3(2):143–65 (198 ref.)
A shear stress component to the modulation of capillary hydraulic conductivity (Lp). Williams DA. **Microcirculation** 1996 Jun;3(2):229–32
Role of tumor vascular architecture in nutrient and drug delivery: an invasion percolation–based network model. Baish JW, et al. **Microvasc Res** 1996 May;51(3):327–46
Effects of oxygen tension on flow–induced vasodilation in porcine coronary resistance arterioles. Jimenez AH, et al. **Microvasc Res** 1996 May;51(3):365–77
Hemodynamic forces modulate simultaneously the release of growth factors and the organisation of cytoskeleton of aortic smooth muscle–cells. Cucina A, et al. **Minerva Cardioangiol** 1996 Dec;44(12):637–43
Blood rheology after renal transplantation. Koppensteiner R, et al. **Nephron** 1996;74(2):328–32
Hemorheology in cerebral ischemia. Kowal P. **Neurol Neurochir Pol** 1996;30 Suppl 2:7–11
In vitro determination of the curvatures and bending strains acting on the leaflets of polyurethane trileaflet heart valves during leaflet motion. Corden J, et al. **Proc Inst Mech Eng [H]** 1995;209(4):243–53
[Hemorheological parameters in the prognosis of the risk of fetal retardation in pregnancy with arterial hypertension] Stoev S, et al. **Akush Ginekol (Sofiia)** 1996;35(4):23–4 (Eng. Abstr.) **(Bul)**
[Effect of temperature on rheologic properties of blood and internal viscosity of erythrocytes] Urbanová R. **Cas Lek Cesk** 1996 Oct 23;135(20):660–3 (Eng. Abstr.) **(Cze)**
[Rheology and occlusive arterial disease of the legs] Dupuy–Fons C, et al. **J Mal Vasc** 1996;21(3):165–70 (Eng. Abstr.) **(Fre)**
[Erythrocyte rheology and heart hypertrophy in diabetes mellitus] Valensi P, et al. **J Mal Vasc** 1996;21(3):185–7 (Eng. Abstr.) **(Fre)**
[Hemorheologic assessment in hypoxic and hypoxic–hypercapnic states] Cortinovis A, et al. **Minerva Med** 1996 Dec;87(12):553–63 (Eng. Abstr.) **(Ita)**
[Hemorheology in different types of obesity] Cortinovis A, et al. **Minerva Med** 1997 Mar;88(3):59–73 (Eng. Abstr.) **(Ita)**
[Disturbances of the normal structuring of the blood flow in the microvessels as the cause of hemorheological disorders] Mchedlishvili GI. **Fiziol Zh Im I M Sechenova** 1996 Dec;82(12):41–7 (27 ref.) **(Rus)**
[Blood rheology in patients with gastric cancer] Karabanov GN, et al. **Khirurgiia (Mosk)** 1997;(4):20–3 (Eng. Abstr.) **(Rus)**
[The blood rheological properties in patients with amputation stumps and concomitant ischemic heart disease] Kaznacheev LN, et al. **Ter Arkh** 1997;69(5):69–71 (Eng. Abstr.) **(Rus)**
[The therapeutic correction of disorders in thrombocyte–vascular hemostasis and of changes in the rheological properties of the blood in patients with arterial hypertension] Zadionchenko VS, et al. **Ter Arkh** 1996; 68(5):63–7 (Eng. Abstr.) **(Rus)**
[The correlations of lipid peroxidation, antioxidant protection and microrheological disorders in the development of IHD] Zakirova AN. **Ter Arkh** 1996;68(9):37–40 (Eng. Abstr.) **(Rus)**
[Hemorheological profiles in patients with arterial hypertension and bronchial asthma] Murav'ev AV, et al. **Vestn Ross Akad Med Nauk** 1997;(8):19–22 (Eng. Abstr.) **(Rus)**

DRUG EFFECTS

Comment on: effect of pravastatin sodium and simvastatin on plasma fibrinogen level and blood rheology in type II hyperlipoproteinemia [letter; comment] Mikhailidis DP, et al. **Atherosclerosis** 1996 Dec 20;127(2):287–90. Comment on: Atherosclerosis 1996 May;122(2):225–33.
Effects of pravastatin sodium and simvastatin on plasma fibrinogen level and blood rheology in type II hyperlipoproteinemia [see comments] Tsuda Y, et al. **Atherosclerosis** 1996 May;122(2):225–33. Comment in: Atherosclerosis 1996 Dec 20;127(2):287–90.
The effect of RheothRx Injection on the hemorheological parameters in patients with acute myocardial infarction. Toth K, et al. **Clin Hemorheol Microcirc** 1997 Mar–Apr; 17(2):117–25
Effect of HMG–CoA reductase inhibitors on red blood cell membrane lipids and haemorheological parameters, in patients affected by familial hypercholesterolemia. Martinez M, et al. **Haemostasis** 1996 Oct;26 Suppl 4:171–6
[The effect of angiography with disodium fluorescein on the hemorheologic parameters of diabetics] Sargento L, et al. **Acta Med Port** 1996 Oct–Dec;9(10–12):303–7 (Eng. Abstr.) **(Por)**
[A method for selecting drugs that affect the rheological properties of the blood in vitro] Plotnikov MB, et al. **Eksp Klin Farmakol** 1996 Nov–Dec;59(6):54–5 (Eng. Abstr.) **(Rus)**
[The effect of a new hypolipemic preparation fluvastatin (Lescol) on rheological indices and hemostatic parameters] Filippova VG, et al. **Ter Arkh** 1997;69(4):43–5 (Eng. Abstr.) **(Rus)**
[The antioxidant histochrome: its effect on lipid peroxidation and the blood rheological properties in patients with unstable stenocardia] Zakirova AN, et al. **Ter Arkh** 1996; 68(8):12–4 (Eng. Abstr.) **(Rus)**
[The use of mildronate and trental in treating disorders of hemorheology and the intracardiac hemodynamics in patients with chronic obstructive bronchitis] Sakharchuk II, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):122–5 (Eng. Abstr.) **(Ukr)**

INSTRUMENTATION

Conservation of flow demonstrated using the two–slit velocimeter and cross correlator in epiilluminated surface microvessels of the mouse brain. Rosenblum WI. **Microcirculation** 1996 Jun;3(2):187–90
A novel instrument for studying the flow behaviour of erythrocytes through microchannels simulating human blood capillaries. Sutton N, et al. **Microvasc Res** 1997 May; 53(3):272–81
[Evaluation of erythrocyte deformability using a cell transit analyzer "CTA". Comparison with the technique of initial filtration flow rate. Application to the blood of diabetic patients] Khodabandehlou T, et al. **J Mal Vasc** 1996; 21(3):175–80 (Eng. Abstr.) **(Fre)**

METHODS

Noninvasive analysis of renal artery blood flow dynamics with MR cine phase–contrast flow measurements. Schoenberg SO, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2477–84
Fluid mechanics of arterial stenosis: relationship to the development of mural thrombus. Bluestein D, et al. **Ann Biomed Eng** 1997 Mar–Apr;25(2):344–56
Seasonal variations of hemorheological and lipid parameters in middle–aged healthy subjects. Otto C, et al. **Clin Chim Acta** 1996 Dec 9;256(1):87–94
Derivation of correlation coefficient formula for determination of Doppler angle using time domain correlation ultrasonic flowmeter. Güler I. **J Med Syst** 1997 Apr;21(2):75–86
A novel instrument for studying the flow behaviour of erythrocytes through microchannels simulating human blood capillaries. Sutton N, et al. **Microvasc Res** 1997 May; 53(3):272–81
A new in vivo method for the direct measurement of nutrient artery blood flow. Dunlap JN, et al. **Orthopedics** 1997 Jul; 20(7):613–9
Hemorheology in occupational lead exposure. Osterode W. **Scand J Work Environ Health** 1996 Oct;22(5):369–73

HEMORRHAGE

Pulmonary hemorrhage in infants and children. Dearborn DG. **Curr Opin Pediatr** 1997 Jun;9(3):219–24 (50 ref.)
Thrombosis and hemorrhage in oncology patients. Bick RL, et al. **Hematol Oncol Clin North Am** 1996 Aug; 10(4):875–907 (207 ref.)
Abnormal vaginal bleeding in young women. Kenney A. **Int J STD AIDS** 1997 Feb;8(2):82–6; quiz 86–7 (10 ref.)
Bleeding disorders in Noonan syndrome: three case reports and review of the literature. Singer ST, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):130–4
Segmental hemorrhagic infarction of testicle. Baratelli GM, et al. **J Urol** 1996 Oct;156(4):1442 (3 ref.)
Spontaneous mediastinal hemorrhage: a case report with a review of the literature [published erratum appears in Md Med J 1997 Apr;46(4):171] Gomelsky A, et al. **Md Med J** 1997 Feb;46(2):83–7 (34 ref.)
Percutaneous liver biopsy complications in patients with chronic renal failure [letter] Ozdoğan M, et al. **Nephron** 1996;74(2):442–3
Pressure–driven hemorrhage does not model uncontrolled hemorrhage [editorial; comment] Lewis FR. **Shock** 1996 Oct;6(4):307. Comment on: Shock 1996 Oct;6(4):298–306.
[Hemorrhagic cystitis as a presenting symptom of acute infection with Salmonella typhi] Arad E, et al. **Harefuah** 1996 Jun 16;130(12):815–6 (Eng. Abstr.) **(Heb)**
[Alveolar hemorrhage, skin eruption, and gastrointestinal bleeding accompanied by crescentric glomerulonephritis in a patient with cytoplasmic anti–neutrophil cytoplasmic antibody] Kishimoto N, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 Jul;34(7):790–5 (Eng. Abstr.) **(Jpn)**
[Hemorrhagic myocardial infarction] Imakita M. **Ryoikibetsu Shokogun Shirizu** 1996;(12):672–5 (16 ref.) **(Jpn)**
[Comparative analysis of the efficacy of recovery of circulating blood volume after blood loss in newborn and adult mammals] Dzhurko BI, et al. **Biull Eksp Biol Med** 1996 Oct;122(10):391–4 **(Rus)**

BLOOD

Impaired renin response to hemorrhage in hypertensive rabbits. Courneya CA. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1524–30
Effect of repetitive bleeding on NADH–cytochrome b5 methemoglobin reductase activity and molybdenum content in erythrocytes in rats. Yang Y, et al. **Biomed Environ Sci** 1996 Dec;9(4):393–8
Plasma catecholamine response in trained rats following hemorrhage. Trudeau F, et al. **Can J Appl Physiol** 1996 Dec;21(6):481–91
Effect of chronic cocaine administration on the hemodynamic response to acute hemorrhage in awake and anesthetized sheep. Bernards CM, et al. **J Trauma** 1997 Jan;42(1):42–8
Retinal large vessel oxygen saturations correlate with early blood loss and hypoxia in anesthetized swine. Denninghoff KR, et al. **J Trauma** 1997 Jul;43(1):29–34
Platelet signal transduction defect with Galpha subunit dysfunction and diminished Galphaq in a patient with abnormal platelet responses. Gabbeta J, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8750–5
The role of brain angiotensin in thirst and AVP release induced by hemorrhage. Phillips MI, et al. **Regul Pept** 1996 Oct 8;66(1–2):3–11
Platelets from bleeding Simmental cattle have a long delay in both ADP–activated expression of GpIIB–IIIA receptors and fibrinogen–dependent platelet aggregation. Frojmovic MM, et al. **Thromb Haemost** 1996 Dec; 76(6):1047–52
Limiting systemic plasminogenolysis reduces the bleeding potential for tissue–type plasminogen activators but not for streptokinase. Thomas GR, et al. **Thromb Haemost** 1996 Jun;75(6):915–20
Sensitivity of experimental venous and arterial thrombosis and bleeding to ancrod–induced defibrinogenation. Schumacher WA, et al. **Thromb Res** 1996 Jan 15; 81(2):187–94
[The hemostatic system and thrombohemorrhagic complications during the hemosorption treatment of patients with chronic glomerulonephritis with nephrotic syndrome] Kolesnyk MO, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):78–80 (Eng. Abstr.) **(Ukr)**

CHEMICALLY INDUCED

An unexpected complication of DVT prophylaxis. Manktelow AR, et al. **Acta Orthop Belg** 1997 Jun; 63(2):134–5
Hemorrhagic events during therapy with recombinant tissue plasminogen activator, heparin, and aspirin for unstable angina (Thrombolysis in Myocardial Ischemia, phase IIIB trial). Bovill EG, et al. **Am J Cardiol** 1997 Feb 15; 79(4):391–6
Hemorrhagic complications of intravenous heparin use. Juergens CP, et al. **Am J Cardiol** 1997 Jul 15;80(2):150–4
Monitoring but no drug–regimen changes advised for hemophilia patients taking protease inhibitors [news] **Am J Health Syst Pharm** 1996 Sep 1;53(17):1999
Vitamin C for paroxetine– and fluvoxamine–associated bleeding [letter] Tielens JA. **Am J Psychiatry** 1997 Jun; 154(6):883–4
Coagulopathy induced by hydroxyethyl starch. Baldassarre S, et al. **Anesth Analg** 1997 Feb;84(2):451–3
Mechanical valves [letter; comment] David TE, et al.

Ann Thorac Surg 1996 Nov;62(5):1567–70. Comment on: Ann Thorac Surg 1995 Dec;60(6):1836–44.

Mechanical valve performance [letter; comment] O'Hair DP, et al. **Ann Thorac Surg** 1996 Nov;62(5):1570–1. Comment on: Ann Thorac Surg 1995 Dec;60(6):1836–44.

Aortic transgraft hemorrhage after systemic thrombolytic therapy. Pope M, et al. **Ann Vasc Surg** 1997 May; 11(3):292–4

Anticoagulant therapy in patients aged 80 years or more with atrial fibrillation. More caution is needed [editorial; comment] Ackermann RJ. **Arch Fam Med** 1997 Mar–Apr; 6(2):105–10 (82 ref.). Comment on: Arch Fam Med 1995 Dec;4(12):1017–26.

Increased haemorrhagic risk after repeated infusion of highly substituted medium molecular weight hydroxyethyl starch. Treib J, et al. **Arzneimittelforschung** 1997 Jan;47(1):18–22

Warfarin use in patients with atrial fibrillation. May increase risk of haemorrhage in elderly patients [letter] Sulch D. **BMJ** 1997 Sep 20;315(7110):750; discussion 751

Urinary elimination of cyclophosphamide alkylating metabolites and free thiols following two administration schedules of high-dose cyclophosphamide and mesna. Fleming RA, et al. **Bone Marrow Transplant** 1996 Apr; 17(4):497–501

Anti-thrombotic effects and bleeding risk of AJvW-2, a monoclonal antibody against human von Willebrand factor. Kageyama S, et al. **Br J Pharmacol** 1997 Sep;122(1):165–71

Bladder augmentation in the prevention of cyclophosphamide-induced haemorrhagic cystitis in the rat model. Crocitto LE, et al. **Br J Urol** 1996 Oct;78(4):530–3

Fluvoxamine-associated bleeding [letter] Leung M, et al. **Can J Psychiatry** 1996 Nov;41(9):604–5

Successful stent implantation for acute myocardial infarction after failed thrombolytic therapy associated with massive hemorrhage. Kaplan BM, et al. **Cathet Cardiovasc Diagn** 1996 Jul;38(3):280–2

Incidence and predictors of bleeding after contemporary thrombolytic therapy for myocardial infarction. The Global Utilization of Streptokinase and Tissue Plasminogen activator for Occluded coronary arteries (GUSTO) I Investigators. Berkowitz SD, et al. **Circulation** 1997 Jun 3;95(11):2508–16

Use of anti-X a activity as a marker for heparin-induced bleeding in patients with APTT > 180 s. Haliassos A, et al. **Clin Chem** 1997 Sep;43(9):1781–2

Docetaxel-induced subungual hemorrhage. Vanhooteghem O, et al. **Dermatology** 1997;194(4):419–20

Bleeding risks, risk factors and management of bleeding complications after treatment with anticoagulants, specific antithrombins, thrombolytics IIb–IIIa receptor blockers. Armstrong PW, et al. **Eur Heart J** 1995 Nov;16 Suppl L:75–80 (28 ref.)

Late complications after systemic methotrexate treatment of unruptured ectopic pregnancies: a report of three cases. Zullo F, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Dec 27;70(2):213–4

Propylthiouracil-induced alveolar haemorrhage associated with antineutrophil cytoplasmic antibody. Ohtsuka M, et al. **Eur Respir J** 1997 Jun;10(6):1405–7

Selective embryo reduction in a heterotopic pregnancy using potassium chloride injection resulting in a hematosalpinx. Wright A, et al. **Fertil Steril** 1996 Dec;66(6):1028–30

Bleeding complications with new antithrombotics used in ischaemic heart disease. Adgey AA. **Haemostasis** 1996 Sep–Oct;26(5):237–46 (35 ref.)

Can the haemorrhagic component of heparin be identified? Or an attempt at clean thinking on a dirty drug [editorial] Hemker HC, et al. **Haemostasis** 1996 May–Jun;26(3):117–26 (50 ref.)

Comparison of hemorrhagic effect of heparin and human activated protein C with use of Thrombostat 4000. Katsuura Y, et al. **Haemostasis** 1996 Jul–Aug;26(4):203–9

Platelet count and the risk of bleeding in hospitalized patients with venous thromboembolism starting anticoagulant therapy. Monreal M, et al. **Haemostasis** 1997 Mar–Apr; 27(2):91–8

A woman with abdominal pain and a history of thromboses. Matfin G, et al. **Hosp Pract (Off Ed)** 1997 Sep 15;32(9):21–2

Effects of calcium antagonists on the risks of coronary heart disease, cancer and bleeding. Ad Hoc Subcommittee of the Liaison Committee of the World Health Organisation and the International Society of Hypertension. **Hypertens Res** 1997 Jun;20(2):61–73 (81 ref.)

Bilateral massive adrenal haemorrhage complicating anaphylactic shock: a case report [letter; comment] Waldhausen E. **Intensive Care Med** 1997 Feb;23(2):235–6 . Comment on: Intensive Care Med 1996 May;22(5):447–9.

Risks of long-term oral anticoagulation in a non-trial medical environment. McKenna CJ, et al. **Ir Med J** 1996 Jul–Aug; 89(4):144–5

Bleeding risk of combined oral anticoagulant and antiplatelet therapy in cardiovascular disease. Verheugt FW. **J Cardiovasc Risk** 1996 Apr;3(2):229–32

Effects of calcium antagonists on the risks of coronary heart disease, cancer and bleeding. Ad Hoc Subcommittee of the Liaison Committee of the World Health Organisation and the International Society of Hypertension. **J Hum Hypertens** 1997 Jun;11(6):331–42 (81 ref.)

Bilateral adrenal hemorrhage and adrenal insufficiency in a patient with lymphomatous adrenal infiltration following administration of a fusion toxin (DAB(486)interleukin-2). Cohen R, et al. **J Immunother** 1994 Oct;16(3):229–33

Characteristics of toxicity and haemorrhagic toxin produced by Clostridium sporogenes in various animals and cultured cells. Hara-Kudo Y, et al. **J Med Microbiol** 1997 Apr; 46(4):270–5

Hemorrhagic complications of long-term anticoagulant therapy in 7 patients with systemic lupus erythematosus and antiphospholipid syndrome. al-Sayegh FA, et al. **J Rheumatol** 1997 Sep;24(9):1716–8

Treatment of cyclophosphamide induced hemorrhagic cystitis with neodymium:YAG laser in pediatric patients. Gweon P, et al. **J Urol** 1997 Jun;157(6):2301–2

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Członkowska A, et al. **Lancet** 1997 Aug 9;350(9075):441–2; discussion 443–4

Anticoagulation therapy: bleeding and thromboembolic complications [letter; comment] Sweeney KG, et al. **Lancet** 1996 Nov 23;348(9039):1456–7. Comment on: Lancet 1996 Aug 17;348(9025):423–8.

Ketorolac tromethamine and hemorrhage in tonsillectomy: a prospective, randomized, double-blind study. Bailey R, et al. **Laryngoscope** 1997 Feb;107(2):166–9

The Gaboon viper, Bitis gabonica: hemorrhagic, metabolic, cardiovascular and clinical effects of the venom. Marsh N, et al. **Life Sci** 1997;61(8):763–9 (35 ref.)

Warfarin--topical salicylate interactions: case reports. Ramanathan M. **Med J Malaysia** 1995 Sep;50(3):278–9

Multisite mucous membrane bleeding due to a possible interaction between warfarin and 5-fluorouracil. Brown MC. **Pharmacotherapy** 1997 May–Jun;17(3):631–3

Bleeding in a patient taking Lorenzo's oil: evidence for a vascular defect. Chai BC, et al. **Postgrad Med J** 1996 Feb; 72(844):113–4

Acetylsalicylic acid-induced bleeding disorder [letter] Werner W, et al. **Scand J Urol Nephrol** 1997 Aug;31(4):381

The role of individual risk factors in anticoagulant-associated hemorrhages. Toulemonde F. **Semin Thromb Hemost** 1996; 22 Suppl 1:53–60 (51 ref.)

Bleeding esophageal ulcers caused by NSAIDs. Sugawa C, et al. **Surg Endosc** 1997 Feb;11(2):143–6 (22 ref.)

Experimental haemorrhagic effect of two-domain non-glycosylated tissue factor pathway inhibitor compared to low molecular weight heparin. Holst J, et al. **Thromb Haemost** 1996 Apr;75(4):585–9

Emergency oral anticoagulant reversal: the relative efficacy of infusions of fresh frozen plasma and clotting factor concentrate on correction of the coagulopathy. Makris M, et al. **Thromb Haemost** 1997 Mar;77(3):477–80

Human urinary soluble thrombomodulin (MR-33) improves disseminated intravascular coagulation without affecting bleeding time in rats: comparison with low molecular weight heparin. Takahashi Y, et al. **Thromb Haemost** 1997 Apr;77(4):789–95

Assessment of a bleeding risk index in two cohorts of patients treated with oral anticoagulants. van der Meer FJ, et al. **Thromb Haemost** 1996 Jul;76(1):12–6

Comparative effects of staphylokinase and alteplase in rabbit bleeding time models. Vanderschueren S, et al. **Thromb Haemost** 1996 May;75(5):816–9

Direct thrombin inhibitors: appraisal of the antithrombotic/hemorrhagic balance. Verstraete M. **Thromb Haemost** 1997 Jul;78(1):357–63 (34 ref.)

Insights into the mechanism of haemorrhage caused by snake venom metalloproteinases. Kamiguti AS, et al. **Toxicon** 1996 Jun;34(6):627–42 (96 ref.)

Biochemical and biological characterization of Ecuadorian pitviper venoms (genera Bothriechis, Bothriopsis, Bothrops and Lachesis). Kuch U, et al. **Toxicon** 1996 Jun;34(6):714–7

The dynamics of local tissue damage induced by Bothrops asper snake venom and myotoxin II on the mouse cremaster muscle: an intravital and electron microscopic study. Lomonte B, et al. **Toxicon** 1994 Jan;32(1):41–55

Enhancement of plasma fibrinolysis in vitro by jararhagin, the main haemorrhagic metalloproteinase in Bothrops jararaca venom. Sugiki M, et al. **Toxicon** 1995 Dec; 33(12):1605–17

Proteolytic specificity of rhodostoxin, the major hemorrhagin of Calloselasma rhodostoma (Malayan pit viper) venom. Tan NH, et al. **Toxicon** 1997 Jun;35(6):979–84

Venom of a six-eyed crab spider, Sicarius testaceus (Purcell, 1908), causes necrotic and haemorrhagic lesions in the rabbit. Van Aswegen G, et al. **Toxicon** 1997 Jul; 35(7):1149–52

Oral anticoagulation alone or in combination with aspirin: risks and benefits. Hafner J, et al. **Vasa** 1996;25(1):1–12 (75 ref.)

[Intra-alveolar hemorrhage of toxic origin and antineutrophil cytoplasmic antibodies (p-ANCA) (letter)] Corne PH, et al. **Rev Med Interne** 1996;17(12):1042–3 **(Fre)**

[Severe hemorrhagic complications during treatment with low molecular weight heparin. Apropos of 2 cases] Grateau G, et al. **Rev Med Interne** 1997;18(5):411–5 (Eng. Abstr.) **(Fre)**

[Spinal para-medullary conduction anesthesia in therapy with anticoagulant drugs] Hesse T, et al. **Anaesthesiol Reanim** 1996;21(5):116–21 (74 ref.) (Eng. Abstr.) **(Ger)**

[Hemorrhagic complications of oral anticoagulant therapy: results of a prospective multicenter study ISCOAT (Italian Study on Complications of Oral Anticoagulant Therapy)] Palareti G, et al. **G Ital Cardiol** 1997 Mar;27(3):231–43 (Eng. Abstr.) **(Ita)**

[Seroxat combined with Meravean--increased risk of hemorrhage? (letter)] Haukeland JW. **Tidsskr Nor Laegeforen** 1996 Nov 30;116(29):3528–9 **(Nor)**

[Pulmonary hemorrhage after thrombolysis in acute myocardial infarction (letter) (corrected and republished in An Med Interna 1997 Apr;14(4):81)] Rodríguez Blanco VM, et al. **An Med Interna** 1996 Oct;13(10):514–5 **(Spa)**

[Pulmonary hemorrhage after thrombolysis in acute myocardial infarct (letter) (corrected and republished letter originally printed in An Med Interna 1996 Oct;13(10):514–5)] Rodríguez Blanco VM, et al. **An Med Interna** 1997 Apr;14(4):209 (7 ref.) **(Spa)**

[Hemorrhagic complications and thrombotic phenomena in oral anticoagulation of elderly patients] Selva O'Callaghan A, et al. **Rev Clin Esp** 1997 May;197(5):323–8 (Eng. Abstr.) **(Spa)**

[Follow-up studies of complications due to anticoagulants. Fewer severe bleedings after more stringent routines] Sjöberg KH, et al. **Lakartidningen** 1997 Aug 27; 94(35):2932–4 **(Swe)**

CLASSIFICATION

[Acute hemorrhage: its classification and the determination of its size and severity (1)] Briusov PG. **Voen Med Zh** 1997 Jan;318(1):46–52 **(Rus)**

COMPLICATIONS

Hemorrhagic pituitary adenomas of adolescence. Poussaint TY, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec; 17(10):1907–12

Hemothorax due to spontaneous bleeding into posterior pararenal space [letter; comment] Gaeta M, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):566–7. Comment on: AJR Am J Roentgenol 1994 Mar;162(3):733–4.

Acute right-sided heart failure due to hemorrhage into a pericardial cyst. Borges AC, et al. **Ann Thorac Surg** 1997 Mar;63(3):845–7

Postcoital vaginal bleeding as a risk factor for transmission of the human immunodeficiency virus in a heterosexual partner study in Brazil. Rio de Janeiro Heterosexual Study Group. Guimarães MD, et al. **Arch Intern Med** 1997 Jun 23;157(12):1362–8

Cerebral diaschisis following cerebellar hemorrhage. Hausen HS, et al. **Arch Phys Med Rehabil** 1997 May;78(5):546–9

Acute low back pain secondary to retroperitoneal hemorrhage in an elderly man. Kiser TS, et al. **Arch Phys Med Rehabil** 1997 Jun;78(6):664–5

Optic disc haemorrhages and vascular abnormalities in a glaucoma population. Barry CJ, et al. **Aust N Z J Ophthalmol** 1997 May;25(2):137–44

Thrombotic and hemorrhagic complications in chronic myeloproliferative disorders. Sagripanti A, et al. **Biomed Pharmacother** 1996;50(8):376–82

Ecchymoses may have been due to extracapsular haemorrhage from parathyroid adenoma [letter] Hellier WP, et al. **BMJ** 1997 Sep 13;315(7109):683

Traumatic haemorrhagic optic neuropathy: case report. Muthukumar N. **Br J Neurosurg** 1997 Apr;11(2):166–7

Case report: acute radiculopathy due to a haemorrhagic lumbar synovial cyst. Howling SJ, et al. **Clin Radiol** 1997 Jan;52(1):73–4

Acute vocal fold hemorrhage with minimal dysphonia. Sataloff RT, et al. **Ear Nose Throat J** 1996 Sep;75(9):583

Migrainelike headache in a patient with a hemorrhagic pituitary macroadenoma. Evans RW. **Headache** 1997 Jul–Aug;37(7):455–6

Hematometra and ruptured hematosalpinx with ipsilateral renal agenesis presenting as diffuse peritonitis: a case report [letter] Kinjo K, et al. **Intensive Care Med** 1997 Mar; 23(3):354

Transient hypertension due to adrenal hemorrhage in a patient with von Recklinghausen's disease. Akuzawa N, et al. **Intern Med** 1997 Apr;36(4):289–92

Spontaneous remission of primary hyperparathyroidism due to hemorrhagic infarction in the parathyroid adenoma. Natsui K, et al. **Intern Med** 1996 Aug;35(8):646–9

Extension of hemorrhage after reperfusion of occluded coronary artery: contrast echocardiographic assessment in dogs. Shishido T, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):585–91

Absence of bleeding complications in patients undergoing cortical surgery while receiving valproate treatment. Anderson GD, et al. **J Neurosurg** 1997 Aug;87(2):252–6

Diffuse alveolar hemorrhage in limited cutaneous systemic sclerosis with positive perinuclear antineutrophil cytoplasmic antibodies. Vázquez-Del Mercado M, et al. **J Rheumatol** 1996 Oct;23(10):1821–3

Diffuse alveolar hemorrhage and systemic lupus erythematosus. Clinical presentation, histology, survival, and outcome. Zamora MR, et al. **Medicine (Baltimore)** 1997 May;76(3):192–202 (58 ref.)

Pulmonary haemorrhage in association with IgA nephropathy. Medcalf JF, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1148–9

Forecasting motor recovery after cervical spinal cord injury: value of MR imaging [see comments] Flanders AE, et al. **Radiology** 1996 Dec;201(3):649–55. Comment in: Radiology 1996 Dec;201(3):617–8.

Alveolar hemorrhage in IgA nephropathy treated with plasmapheresis. Afessa B, et al. **South Med J** 1997 Feb;

90(2):237–9

Therapeutic dilemmas: balancing the risks of bleeding, thrombosis, and leukemic transformation in myeloproliferative disorders (MPD). Murphy S. **Thromb Haemost** 1997 Jul;78(1):622–6 (46 ref.)

[A case of rapid progressive glomerulonephritis with pulmonary hemorrhage] Furuichi K, et al. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1042–4 **(Jpn)**

[Disordered cardiac contractility after clinical death caused by acute blood loss] Dolgikh VT, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):42–5 (Eng. Abstr.) **(Rus)**

[Addison–Biermer disease combined with chronic posthemorrhagic iron–deficiency anemia (dimorphic anemias)] Berliner GB, et al. **Ter Arkh** 1996;68(12):10–2 (Eng. Abstr.) **(Rus)**

[Magnetic resonance imaging usefulness in the diagnosis of intratumor bleeding in hypophyseal adenomas] García–Asensio S, et al. **Rev Neurol** 1996 Oct; 24(134):1237–40 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Acute haemorrhagic oedema of infancy, a benign variant of leucocytoclastic vasculitis. Krause I, et al. **Acta Paediatr** 1996 Jan;85(1):114–7

Vanishing tumor of the temporalis muscle: repeated hemorrhage in an intramuscular venous hemangioma. Itosaka H, et al. **AJNR Am J Neuroradiol** 1997 May; 18(5):983–5

Acute submucosal esophageal hemorrhage. Nwogu CE, et al. **Ann Thorac Surg** 1997 Jul;64(1):247–8

Acute perigraft seroma simulating anastomotic bleeding of a PTFE graft applied as an arteriovenous shunt for hemodialysis. Eid A, et al. **Ann Vasc Surg** 1996 May; 10(3):290–1

Detection of glaucomatous optic disc hemorrhages by confocal scanning laser tomography [letter] Dichtl A, et al. **Arch Ophthalmol** 1997 Jun;115(6):800–1

Pulmonary capillaritis and alveolar hemorrhage. Update on diagnosis and management [published erratum appears in Chest 1997 Jul;112(1):300] Green RJ, et al. **Chest** 1996 Nov; 110(5):1305–16 (69 ref.)

Diffuse pulmonary hemorrhage complicating thrombolytic therapy for acute myocardial infarction. Gopalakrishnan D, et al. **Clin Cardiol** 1997 Mar;20(3):298–300

Acute haemorrhagic oedema of infancy: a case report. Tomaç N, et al. **Clin Exp Dermatol** 1996 May;21(3):217–9

Magnetic resonance imaging reveals micro–haemorrhage in the feet of diabetic patients with a history of ulceration. Brash PD, et al. **Diabet Med** 1996 Nov;13(11):973–8

Hemotympanum. Pulec JL, et al. **Ear Nose Throat J** 1996 Feb;75(2):66

Vocal fold hemorrhage: resolution. Sataloff RT, et al. **Ear Nose Throat J** 1996 May;75(5):274

Contrast–enhanced magnetic resonance imaging for the detection of acute haemorrhagic necrotizing pancreatitis. Piironen A, et al. **Eur Radiol** 1997;7(1):17–20

Immunohistochemical demonstration of bleeding in decomposed bodies by using anti–glycophorin A monoclonal antibody. Tabata N, et al. **Forensic Sci Int** 1997 May 23;87(1):1–8

Primary epithelioid angiosarcoma of the lung presenting as pulmonary hemorrhage. Sheppard MN, et al. **Hum Pathol** 1997 Mar;28(3):383–5

Sudden hemorrhagic tamponade simulating subacute ventricular rupture after acute myocardial infarction [letter] Fuchs S, et al. **Int J Cardiol** 1997 Jul 25;60(2):219–20

Evaluation of chemical tests for fetal bleeding from vasa previa. Odunsi K, et al. **Int J Gynaecol Obstet** 1996 Dec; 55(3):207–12

The utility of preoperative hemostatic assessment in adenotonsillectomy. Zwack GC, et al. **Int J Pediatr Otorhinolaryngol** 1997 Feb 14;39(1):67–76

Acute adrenal haemorrhage: diagnosis, treatment and follow–up. Ferreira JG, et al. **Int Urol Nephrol** 1996; 28(6):735–41

Necrosing livedo reticularis in a patient with recurrent pulmonary hemorrhage. Aronoff DM, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):300–2 (15 ref.)

Leiomyoblastoma of the duodenum presenting with exsanguinating haemorrhage [see comments] Sawant PD, et al. **J Assoc Physicians India** 1995 Jun;43(6):432–3 (16 ref.). Comment in: J Assoc Physicians India 1996 Mar;44(3):226.

Renal cell cancer: incidence of hemorrhage on MR images in patients with chronic renal insufficiency. John G, et al. **J Magn Reson Imaging** 1997 Jan–Feb;7(1):157–60

Hemorrhagic ovarian cyst in childhood: a case report. Kayaba H, et al. **J Pediatr Surg** 1996 Jul;31(7):978–9

Vaginal bleeding and abuse: assessing pregnant women in the emergency department. Greenberg EM, et al. **MCN Am J Matern Child Nurs** 1997 Jul–Aug;22(4):182–6

Giant basilar artery aneurysm with intramural hemorrhage and then disastrous hemorrhage: case report. Koyama S, et al. **Neurosurgery** 1996 Jul;39(1):174–7; discussion 177–8

Iatrogenic pneumohemomediastinum mimicking cardiac tamponade: a complication of catheter ablation procedure. Voci P, et al. **Pacing Clin Electrophysiol** 1997 Jan;20(1 Pt 1):138–9

Hemorrhage and abnormal veins in acoustic neurinoma: MR findings. Ishii K, et al. **Radiat Med** 1996 Mar–Apr; 14(2):65–9

Role of the anesthesiologist in the early diagnosis of life–threatening complications during laparoscopic surgery. Noga J, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):63–5

[The "pedrada" ("coup–de–fouet") syndrome. A possibility to be considered in acute leg pain] Toscano F, et al. **Minerva Chir** 1997 Apr;52(4):489–91 (12 ref.) (Eng. Abstr.) **(Ita)**

[Spinal intramedullary cavernous angioma associated with hematomyelia: case report with sequential MRI follow–up and histological verification of hematoidin deposits] Nagashima C, et al. **No Shinkei Geka** 1996 Dec; 24(12):1125–32 (Eng. Abstr.) **(Jpn)**

[A minor trauma can cause life–threatening bleeding. Varying course in eleven patients] Lindgren A, et al. **Lakartidningen** 1996 Dec 4;93(49):4532; 4534–6 **(Swe)**

DIET THERAPY

Effect of fiber supplements on internal bleeding hemorrhoids. Perez–Miranda M, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1504–7

DRUG THERAPY

Significance of TNF in hemorrhage–related hemodynamic alterations, organ injury, and mortality in rats. Bahrami S, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2219–26

Vitamin C for paroxetine– and fluvoxamine–associated bleeding [letter] Tielens JA. **Am J Psychiatry** 1997 Jun; 154(6):883–4

Correction of excessive anticoagulation with low–dose oral vitamin K1. Weibert RT, et al. **Ann Intern Med** 1997 Jun 15;126(12):959–62

A study of the effects of epinephrine infiltration on delayed bleeding in a rat flap model. Rey RM Jr, et al. **Ann Plast Surg** 1996 Oct;37(4):406–10

Systemic responses to SFHS–infusion in hemorrhaged dogs. Amend J, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Jan; 24(1):19–34

Resuscitation with diaspirin crosslinked hemoglobin increases cerebral and renal blood perfusion in hemorrhaged rats. Kumar A, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1997 Jan–Mar; 25(1–2):85–94

Review of clinical experience of desmopressin in patients with congenital and acquired bleeding disorders. Cattaneo M. **Eur J Anaesthesiol Suppl** 1997 Mar;14:10–4; discussion 14–8 (25 ref.)

High–dose desmopressin in bleeding disorders [editorial] Douglas JT, et al. **Eur J Anaesthesiol Suppl** 1997 Mar; 14:v–vi

Desmopressin—a haemostatic drug: state–of–the–art review. Lethagen S. **Eur J Anaesthesiol Suppl** 1997 Mar;14:1–9 (76 ref.)

Terlipressin or somatostatin for acute variceal hemorrhage [letter; comment] Walker S, et al. **Gastroenterology** 1997 May;112(5):1777. Comment on: Gastroenterology 1996 Nov;111(5):1291–9.

Treatment of factor VII deficiency with recombinant factor VIIa. Bauer KA. **Haemostasis** 1996;26 Suppl 1:155–8 (22 ref.)

Recombinant factor VIIa in joint and muscle bleeding episodes. Bech RM. **Haemostasis** 1996;26 Suppl 1:135–8

Recombinant factor VIIa (NovoSeven) in the treatment of internal bleeding in patients with factor VIII and IX inhibitors. Lusher JM. **Haemostasis** 1996;26 Suppl 1:124–30

NovoSeven (recombinant factor VIIa) in centeral nervous systems bleeds. Rice KM, et al. **Haemostasis** 1996;26 Suppl 1:131–4

American experience with home use of NovoSeven: recombinant factor VIIa in hemophiliacs with inhibitors. Shapiro AD. **Haemostasis** 1996;26 Suppl 1:143–9

Long–term therapy for uremic bleeding: effects of conjugate estrogens on the expression of platelet surface receptors for von Willebrand factor and fibrinogen (GPIb and GPIIb/IIIa glycoproteins) [letter; comment] Salvati F, et al. **Int J Artif Organs** 1997 Mar;20(3):184–5. Comment on: Int J Artif Organs 1996 Aug;19(8):439–40.

Fibrinolytic inhibitors for cancer–associated bleeding problems. Dean A, et al. **J Pain Symptom Manage** 1997 Jan;13(1):20–4

DDAVP therapy controls bleeding in Ehlers–Danlos syndrome. Stine KC, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):156–8

Application of a new anticoagulant (Nafamostat Mesilate) to control hemorrhagic complications during extracorporeal membrane oxygenation—a preliminary report. Nagaya M, et al. **J Pediatr Surg** 1997 Apr; 32(4):531–5

Tirofiban provides "platelet anesthesia" during cardiopulmonary bypass in baboons. Hiramatsu Y, et al. **J Thorac Cardiovasc Surg** 1997 Jan;113(1):182–93

Endoscopic topical placement of formalin soaked pledgets to control localized hemorrhage due to radiation cystitis. Lowe BA, et al. **J Urol** 1997 Aug;158(2):528–9

Effect of deamino–8–D–arginine desmopressin in uremic bleeding. Hong SY, et al. **Korean J Intern Med** 1996 Jun; 11(2):145–50

Low–dose intranasal desmopressin (DDAVP) for uremic bleeding [letter] Ozen S, et al. **Nephron** 1997;75(1):119–20

Hypertonic saline/dextran treatment for severe pressure–driven hemorrhage in dehydrated conscious swine [see comments] Alemayehu A, et al. **Shock** 1996 Oct; 6(4):298–306. Comment in: Shock 1996 Oct;6(4):307.

Resuscitation with lactated Ringer's solution after hemorrhage: lack of cardiac toxicity. Delman K, et al. **Shock** 1996 Apr;5(4):298–303

Low–dose hypertonic saline (NaCl 8.0%) treatment of uncontrolled abdominal hemorrhage: effects on arterial versus venous injury. Elgjo GI, et al. **Shock** 1996 Jan; 5(1):52–8

The renal effects of 7.5% NaCl–6% dextran–70 versus lactated Ringer's resuscitation of hemorrhage in dehydrated sheep. Ho HS, et al. **Shock** 1996 Apr; 5(4):289–97

Administration of a matrix metalloproteinase inhibitor after hemorrhage improves cardiovascular and hepatocellular function. Wang P, et al. **Shock** 1996 Nov;6(5):377–82

Alveolar hemorrhage in IgA nephropathy treated with plasmapheresis. Afessa B, et al. **South Med J** 1997 Feb; 90(2):237–9

Antagonism of SR 90107A/Org 31540–induced bleeding by protamine sulfate in rats and mice. Bernat A, et al. **Thromb Haemost** 1996 Nov;76(5):715–9

Immunological aspects of recombinant factor VIIa (rFVIIa) in clinical use. Nicolaisen EM, et al. **Thromb Haemost** 1996 Aug;76(2):200–4

Inhibition of the hemorrhagic activity of Bothrops asper venom by a novel neutralizing mixture. Borkow G, et al. **Toxicon** 1997 Jun;35(6):865–77

Inhibitory properties of the antibothropic complex from the South American opossum (Didelphis marsupialis) serum. Neves–Ferreira AG, et al. **Toxicon** 1997 Jun;35(6):849–63

[A case of hepatocellular carcinoma with direct invasion into the pleural cavity presenting as hemorrhage achieved hemostasis with intra–arterial injection of ethanol] Kanou S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct; 93(10):753–7 **(Jpn)**

ENZYMOLOGY

Involvement of nitric oxide in the pathogenesis of cyclophosphamide–induced hemorrhagic cystitis. Souza–Fiho MV, et al. **Am J Pathol** 1997 Jan;150(1):247–56

Activation of 12– and 15–lipoxygenase in the cardiopulmonary system by hemorrhagic events. Bailey JM, et al. **Biochem Soc Trans** 1996 Aug;24(3):435S

[Fatal acute hemorrhage and activity of serum and erythrocyte cholinesterase] Girsh IaV, et al. **Anesteziol Reanimatol** 1997 Mar–Apr;(2):55–7 **(Rus)**

EPIDEMIOLOGY

HIV protease inhibitors and increased bleeding in hemophilia? [news] Hélal A. **Can Med Assoc J** 1997 Jan 1;156(1):90, 94–5 **(Eng, Fre)**

Influence of technique of percutaneous tract creation on incidence of renal hemorrhage. Davidoff R, et al. **J Urol** 1997 Apr;157(4):1229–31

Floods carry potential for toxic mold disease [news] Marwick C. **JAMA** 1997 May 7;277(17):1342

Update: pulmonary hemorrhage/hemosiderosis among infants—Cleveland, Ohio, 1993–1996. **MMWR Morb Mortal Wkly Rep** 1997 Jan 17;46(2):33–5

Risk factors for bleeding during treatment of acute venous thromboembolism. Wester JP, et al. **Thromb Haemost** 1996 Nov;76(5):682–8

ETIOLOGY

Spontaneous retroperitoneal hemorrhage due to adrenal metastasis for non–small cell lung cancer treated by radiation therapy. Berney CR, et al. **Acta Oncol** 1997; 36(1):91–3 (25 ref.)

Retroperitoneal hemorrhage due to a ruptured adrenal myelolipoma. A case report. Catalano O. **Acta Radiol** 1996 Sep;37(5):688–90 (30 ref.)

Sole haemorrhages and heel horn erosion in dairy cows: the influence of housing system on their prevalence and severity. Bergsten C, et al. **Acta Vet Scand** 1996; 37(4):395–408

Sole haemorrhages in tied heifers in early gestation as an indicator of laminitis: effects of diet and flooring. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):375–81

Sole haemorrhages in tied primiparous cows as an indicator of periparturient laminitis: effects of diet, flooring and season. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):383–94

Arterial injuries in transsphenoidal surgery for pituitary adenoma; the role of angiography and endovascular treatment. Raymond J, et al. **AJNR Am J Neuroradiol** 1997 Apr;18(4):655–65

Increasing age is a major risk factor for hemorrhagic complications after pulmonary embolism thrombolysis. Mikkola KM, et al. **Am Heart J** 1997 Jul;134(1):69–72

Hepatic hemorrhage in malignant rheumatoid arthritis. Mizuno K, et al. **Am J Gastroenterol** 1996 Dec; 91(12):2624–5

Hemorrhage from abdominal non–Hodgkin's lymphoma treated successfully by emergency transcatheter arterial embolization. Suzumiya J, et al. **Am J Hematol** 1996 Jul; 52(3):201–4

Postural hemodilution in nephrotic edema: a cause of spurious hemorrhage after renal biopsy. Clive DM. **Am J Kidney Dis** 1997 Apr;29(4):627–30

Management of children with von Willebrand disease

undergoing adenotonsillectomy. Derkay CS, et al. **Am J Otolaryngol** 1996 May-Jun;17(3):172-7

Involvement of nitric oxide in the pathogenesis of cyclophosphamide-induced hemorrhagic cystitis. Souza-Fiho MV, et al. **Am J Pathol** 1997 Jan;150(1):247-56

Diffuse alveolar hemorrhage with underlying isolated, pauciimmune pulmonary capillaritis. Jennings CA, et al. **Am J Respir Crit Care Med** 1997 Mar;155(3):1101-9

Venous bleeding during transsphenoidal surgery: its association with pre- and intraoperative factors and with cavernous sinus and central venous pressures. Lee HW, et al. **Anesth Analg** 1997 Mar;84(3):545-50

Use of TPA-induced clot lysis time (TCLOT) to diagnose abnormal clot structure and fibrinolysis in a patient with spontaneous bleeding into his leg. Carr ME Jr, et al. **Angiology** 1996 Oct;47(10):941-9

Clinical audit on tonsils and adenoid surgery. Is day surgery a reasonable option? Chee NW, et al. **Ann Acad Med Singapore** 1996 Mar;25(2):245-50

Major haemorrhage associated with a pseudocyst in chronic pancreatitis: a gastro-surgical challenge. Rantala A, et al. **Ann Chir Gynaecol** 1996;85(3):217-21

Warfarin-related bleeding in the elderly [letter; comment] Fiore L. **Ann Intern Med** 1997 Apr 15;126(8):660-1. Comment on: Ann Intern Med 1996 Jun 1;124(11):970-9.

Detection of glaucomatous optic disc hemorrhages by confocal scanning laser tomography [letter] Dichtl A, et al. **Arch Ophthalmol** 1997 Jun;115(6):800-1

Arterial complications of pancreatitis and their radiological management. Sawlani V, et al. **Australas Radiol** 1996 Nov; 40(4):381-6 (14 ref.)

Effects of calcium antagonists on the risks of coronary heart disease, cancer and bleeding. Ad hoc subcommittee of the Liaison Committee of the World Health Organisation and the International Society of Hypertension. **Blood Press** 1997 May;6(3):134-46 (81 ref.)

Urticaria haemorrhagica profunda. Wollenberg A, et al. **Br J Dermatol** 1997 Jan;136(1):108-11

Characterization of a novel bleeding disorder with isolated prolonged bleeding time and deficiency of platelet microvesicle generation. Castaman G, et al. **Br J Haematol** 1997 Mar;96(3):458-63

An unusual case of haemorrhagic cystitis [letter] Lucas GN, et al. **Ceylon Med J** 1996 Dec;41(4):169

Increased activation of the coagulation and fibrinolytic systems leads to hemorrhagic complications during left ventricular assist implantation. Livingston ER, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II227-34

Hemoptysis and unilateral intra-alveolar hemorrhage complicating intravenous thrombolysis for myocardial infarction. Hammoudeh AJ, et al. **Clin Cardiol** 1996 Jul; 19(7):595-6

Systemic lupus erythematosus presenting as iron deficiency anemia due to pulmonary alveolar hemorrhage. Blanche P, et al. **Clin Exp Rheumatol** 1996 Mar-Apr;14(2):228

Spontaneous renal hemorrhage associated with renal tumors. Mydlo JH, et al. **Clin Imaging** 1997 Jul-Aug;21(4):287-9

A novel hypothesis to explain the hemorrhagic and connective tissue manifestations of Ebola virus infection. Tilson MD, et al. **Clin Immunol Immunopathol** 1996 Dec; 81(3):303-6

Clinical manifestations of cholesterol crystal embolism with subungual haemorrhages: a possible relationship? Vanhooteghem O, et al. **Dermatology** 1996;192(4):395-7

Massive hemorrhage caused by a perforating Gianturco-Z stent resulting in an aortoesophageal fistula. Siersema PD, et al. **Endoscopy** 1997 Jun;29(5):416-20 (44 ref.)

An unusual manifestation of bleeding diathesis in a patient with osteogenesis imperfecta. Edge G, et al. **Eur J Anaesthesiol** 1997 Mar;14(2):215-9

Replacement of the abdominal aorta in a young patient with neurofibromatosis and massive retroperitoneal haemorrhage. Wigger P, et al. **Eur J Vasc Endovasc Surg** 1997 Mar;13(3):337-9

The lung physician and the antiphospholipid syndrome [editorial; comment] Hillerdal G. **Eur Respir J** 1997 Mar; 10(3):511-2. Comment on: Eur Respir J 1997 Mar;10(3):727-30.

Pathophysiology of bleeding in heat stress: an experimental study in sheep. Mohanty D, et al. **Exp Hematol** 1997 Jul; 25(7):615-9

Primary prophylaxis of variceal bleeding in cirrhosis: a cost-effectiveness analysis. Teran JC, et al. **Gastroenterology** 1997 Feb;112(2):473-82

Severe bleeding due to acquired hypoprothrombinemia-lupus anticoagulant syndrome. Case report and review of literature. Vivaldi P, et al. **Haematologica** 1997 May-Jun; 82(3):345-7 (26 ref.)

Massive intratumor hemorrhage in facial plexiform neurofibroma. Tung TC, et al. **Head Neck** 1997 Mar; 19(2):158-62 (14 ref.)

Congenital mesenchymal hamartoma of liver. Singh ZN, et al. **Indian Pediatr** 1996 May;33(5):415-7

Haemorrhagic hydrops of the gallbladder. Ray PD, et al. **Injury** 1997 Mar;28(2):143-5

Post-tonsillectomy hemorrhage: an assessment of risk factors. Myssiorek D, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):35-43

Amsler's sign associated significantly with Fuch's heterochromic cyclitis (FHC). Bloch-Michel E, et al. **Int Ophthalmol** 1995-96;19(3):169-71

Massive haemorrhage presenting as a complication after percutaneous nephrolithotomy (PCNL). Sacha K, et al. **Int Urol Nephrol** 1996;28(3):315-8

Intra-alveolar hemorrhage following bipedal lymphography [letter] Dupont H, et al. **Intensive Care Med** 1996 Jun; 22(6):614-5

Bilateral massive adrenal haemorrhage complicating anaphylactic shock: a case report [see comments] Lefevre N, et al. **Intensive Care Med** 1996 May;22(5):447-9. Comment in: Intensive Care Med 1997 Feb;23(2):235-6.

Severe bleeding in a patient with spontaneous factor VIII inhibitor and acute exacerbation of chronic pancreatitis [letter] Martínez C, et al. **Intensive Care Med** 1996 Nov; 22(11):1278-9

Angiosarcoma of the heart presenting as fatal pulmonary hemorrhage. Ebi N, et al. **Intern Med** 1997 Mar;36(3):191-3

Diffuse alveolar hemorrhage caused by lung metastasis of ovarian angiosarcoma. Nara M, et al. **Intern Med** 1996 Aug; 35(8):653-6

Laparoscopic diagnosis and resection of a bleeding Meckel's diverticulum in a thirteen year old female. Evoy D, et al. **Ir J Med Sci** 1996 Jan-Mar;165(1):49

Early fulminant graft failure in orthotopic liver transplantation with massive haemorrhagic necrosis. Zimmermann A, et al. **Ital J Gastroenterol** 1995 Dec; 27(9):501-5

Postablation-tubal sterilization syndrome. Bae IH, et al. **J Am Assoc Gynecol Laparosc** 1996 May;3(3):435-8

Hematosalpinx with pelvic pain after endometrial ablation confirms the postablation-tubal sterilization syndrome. Webb JC, et al. **J Am Assoc Gynecol Laparosc** 1996 May; 3(3):419-21

Heparin use in continuous renal replacement procedures: the struggle between filter coagulation and patient hemorrhage. van de Wetering J, et al. **J Am Soc Nephrol** 1996 Jan; 7(1):145-50

Preventing expulsive hemorrhage using an anterior chamber maintainer to eliminate hypotony. Blumenthal M, et al. **J Cataract Refract Surg** 1997 May;23(4):476-9

Hemorrhagic cystitis as a complication of bone marrow transplantation. Ilhan O, et al. **J Chemother** 1997 Feb; 9(1):56-61

Haemorrhagic manifestations associated with dengue virus infection in Nagaland. Baruah HC, et al. **J Commun Dis** 1996 Dec;28(4):301-3

Glanzmann's thrombasthenia revisited. Vuckovic SA. **J Emerg Med** 1996 May-Jun;14(3):299-303

Recognition and treatment of venous malformations of the rectum. Keljo DJ, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):442-6

External carotid artery ligation for life-threatening hemorrhage in exsanguinating orbital facial congenital hemangiopericytoma. Fanning NF, et al. **J Pediatr Surg** 1997 Aug;32(8):1252-4

Pulmonary hemorrhage: a novel complication after extracorporeal life support. Goretsky MJ, et al. **J Pediatr Surg** 1996 Sep;31(9):1276-81

Hemodynamic significance of pediatric femur fractures. Lynch JM, et al. **J Pediatr Surg** 1996 Oct;31(10):1358-61

Liver hemorrhage during laparotomy in patients with necrotizing enterocolitis. VanderKolk WE, et al. **J Pediatr Surg** 1996 Aug;31(8):1063-6; discussion 1066-7

Massive thymic hemorrhage in a neonate: an entity revisited. Walsh SV, et al. **J Pediatr Surg** 1996 Sep;31(9):1315-7

Bilateral adrenal hemorrhage and acute addisonian crisis--a complication of antiphospholipid syndrome. Garris GW, et al. **J Tenn Med Assoc** 1996 Apr;89(4):120

A method for management of extraperitoneal pelvic bleeding secondary to penetrating trauma. Gonzalez RP, et al. **J Trauma** 1997 Aug;43(2):338-41

Risk of hemorrhage and appropriate use of blood transfusions in pediatric blunt splenic injuries. Shafi S, et al. **J Trauma** 1997 Jun;42(6):1029-32

Massive hemorrhage from renal vein injury during percutaneous renal surgery: endourological management. Gupta M, et al. **J Urol** 1997 Mar;157(3):795-7

Endoscopic topical placement of formalin soaked pledgets to control localized hemorrhage due to radiation cystitis. Lowe BA, et al. **J Urol** 1997 Aug;158(2):528-9

Transcatheter embolization for retroperitoneal hemorrhage secondary to acquired cystic kidney disease. Friedberg EB, et al. **J Vasc Interv Radiol** 1996 Mar-Apr;7(2):291-4

Multiple hepatic hemorrhagic mycotic pseudoaneurysms treated with embolization. Tharp RW, et al. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):876-8

Inhaled nitric oxide [letter; comment] Joannidis M, et al. **Lancet** 1996 Nov 23;348(9039):1448-9. Comment on: Lancet 1996 Sep 7;348(9028):629-30.

Erythromelalgic, thrombotic and hemorrhagic manifestations in 50 cases of thrombocythemia. Michiels JJ, et al. **Leuk Lymphoma** 1996 Sep;22 Suppl 1:47-56 (56 ref.)

Pulmonary hemorrhage in systemic lupus erythematosus. Barile LA, et al. **Lupus** 1997;6(5):445-8

Catastrophic haemorrhage in a case of paediatric primary antiphospholipid syndrome and factor II deficiency. Hudson N, et al. **Lupus** 1997;6(1):68-71

A computer model of major haemorrhage and resuscitation. Simpson SH, et al. **Med Eng Phys** 1996 Jun;18(4):339-43

Fatal haemorrhage and incomplete block to embryogenesis in mice lacking coagulation factor V. Cui J, et al. **Nature** 1996 Nov 7;384(6604):66-8

Pulmonary hemorrhage: an often fatal complication of Henoch-Schoenlein purpura. Paller AS, et al. **Pediatr Dermatol** 1997 Jul-Aug;14(4):299-302 (10 ref.)

Coital injury presenting in a 13 year old as abdominal pain and vaginal bleeding. Bhagat M. **Pediatr Emerg Care** 1996 Oct;12(5):354-5

Femoral fractures: are children at risk for significant blood loss? Ciarallo L, et al. **Pediatr Emerg Care** 1996 Oct; 12(5):343-6

Late-onset hemorrhagic cystitis following bone marrow transplantation: a case report. Goddard AG, et al. **Pediatr Hematol Oncol** 1997 May-Jun;14(3):273-5

Liver biopsy: effects of biopsy needle caliber on bleeding and tissue recovery. Plecha DM, et al. **Radiology** 1997 Jul; 204(1):101-4

Alveolar haemorrhage revealing epithelioid haemangioendothelioma. Briens E, et al. **Respir Med** 1997 Feb;91(2):111-4

Alveolar hemorrhage in patients with rheumatic disease. Dweik RA, et al. **Rheum Dis Clin North Am** 1997 May; 23(2):395-410 (67 ref.)

Profuse mediastinal haemorrhage due to mediastinitis after sternotomy. Report of three cases and review of the literature. Partanen J, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(3-4):167-73 (31 ref.)

Radiological parameters of bleeding renal angiomyolipoma. Koh KB, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):265-8

Coital injury requiring internal iliac artery ligation. Sivalingam N, et al. **Singapore Med J** 1996 Oct;37(5):547-8 (7 ref.)

Simple hemorrhage induces tissue factor mRNA in the liver. Yamashita M, et al. **Surg Today** 1997;27(2):145-8

Massive postmastectomy hemorrhage caused by a suction drain [letter] Nomura T, et al. **Surgery** 1997 Apr;121(4):477

Spontaneous haemothorax associated with von Recklinghausen's disease: review of occurrence in Japan. Miura H, et al. **Thorax** 1997 Jun;52(6):577-8; discussion 575-6

Tissue factor (TF) and urokinase plasminogen activator receptor (uPAR) and bleeding complications in leukemic patients. López-Pedrera C, et al. **Thromb Haemost** 1997 Jan;77(1):62-70

Severe bleeding due to factor V inhibitor after repeated operations using fibrin sealant containing bovine thrombin [letter] Muntean W, et al. **Thromb Haemost** 1997 Jun; 77(6):1223

Thresholds for ultrasonically induced lung hemorrhage in neonatal swine. Baggs R, et al. **Ultrasound Med Biol** 1996; 22(1):119-28

Age dependence of ultrasonically induced lung hemorrhage in mice. Dalecki D, et al. **Ultrasound Med Biol** 1997; 23(5):767-76

Ultrasonically induced lung hemorrhage in young swine. Dalecki D, et al. **Ultrasound Med Biol** 1997;23(5):777-81

Thresholds for fetal hemorrhages produced by a piezoelectric lithotripter. Dalecki D, et al. **Ultrasound Med Biol** 1997; 23(2):287-97

Rabbit and pig lung damage comparison from exposure to continuous wave 30-kHz ultrasound. O'Brien WD Jr, et al. **Ultrasound Med Biol** 1996;22(3):345-53

Exposure-time dependence of the threshold for ultrasonically induced murine lung hemorrhage. Raeman CH, et al. **Ultrasound Med Biol** 1996;22(1):139-41

Spontaneous hemorrhage during pregnancy secondary to renal angiomyolipoma. Yanai H, et al. **Urol Int** 1996; 56(3):188-91

Adrenal insufficiency from bilateral adrenal hemorrhage after total knee replacement surgery. Cozzolino D, et al. **Urology** 1997 Jul;50(1):125-7

Pulmonary hemorrhage in an adolescent with Henoch-Schönlein purpura. Carter ER, et al. **West J Med** 1996 Feb;164(2):171-3

[Hemorrhage complicating heparin treatment in a patient with myxedema] Bulckaen E, et al. **Ann Fr Anesth Reanim** 1996;15(2):202-3 (Eng. Abstr.) **(Fre)**

[Intravaginal hemorrhagic nodule after vaginal hysterectomy] de Pinieux I, et al. **Ann Pathol** 1997 Jul; 17(3):211-2 **(Fre)**

[Should kidney biopsy be performed in patients with cirrhosis?] Mal F, et al. **Gastroenterol Clin Biol** 1996; 20(8-9):661-2 **(Fre)**

[Hemorrhagic syndrome and isolated alpha 2-antiplasmin deficiency. Apropos of a case] Guermazi S, et al. **Pathol Biol (Paris)** 1997 Jun;45(6):483-6 (Eng. Abstr.) **(Fre)**

[Acute hemorrhagic pancreatitis] Varlet C, et al. **Presse Med** 1996 Oct 19;25(31):1453-8 (28 ref.) (Eng. Abstr.) **(Fre)**

[Intrapulmonary hemorrhages associated with Basedow disease] Nguyen TB, et al. **Rev Med Interne** 1996; 17(11):933-5 (Eng. Abstr.) **(Fre)**

[Interventional pneumology: procedures for pulmonary hemorrhage and tumor-induced superior vena cava syndrome] Witt C, et al. **Pneumologie** 1996 Feb;50(2):202-8 (51 ref.) (Eng. Abstr.) **(Ger)**

[Angiological complications following high tibial head correcting osteotomy--a case report] Franke L, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb;135(1):76-8 (Eng. Abstr.) **(Ger)**

[Complications of thyroidectomy: hemorrhage] Sussi PL, et al. **Chir Ital** 1995;47(4):41-3 (Eng. Abstr.) **(Ita)**

[Hemorrhagic pseudocyst of the adrenal gland: a case report]

Bonati L, et al. **G Chir** 1997 May;18(5):286–9 (Eng. Abstr.) **(Ita)**

[Spontaneous retroperitoneal hemorrhage from renal angiomyolipoma. Report of 2 cases] Gibilisco G, et al. **Radiol Med (Torino)** 1996 Nov;92(5):660–2 **(Ita)**

[Spinal hemorrhagic synovial cyst: magnetic resonance features of a case] Petruzzi P, et al. **Radiol Med (Torino)** 1996 Dec;92(6):815–7 **(Ita)**

[Two patients with pulmonary hemorrhage associated with myeloperoxidase–antineutrophil cytoplasmic antibody] Niho S, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Jan;35(1):111–6 (Eng. Abstr.) **(Jpn)**

[Alveolar hemorrhage and glomerulonephritis in two patients with anti–neutrophil cytoplasmic antibodies] Takiguchi Y. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Mar; 35(3):334–40 (Eng. Abstr.) **(Jpn)**

[Case of p–ANCA–positive rapidly progressing glomerulonephritis requiring hemodialysis: effectiveness of anti–MPO antibody determiantion in predicting pulmonary hemorrhage] Matsuda T, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):675–7 **(Jpn)**

[Case of direct Coombs–test–positive hemolytic anemia with bleeding tendency due to prominent low activity of factor V] Miyachi K, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1934–7 **(Jpn)**

[Coping with pathological changes in heart and lung in collagen diseases—pulmonary alveolar hemorrhage] Yamakido M, et al. **Nippon Naika Gakkai Zasshi** 1996 Nov 10;85(11):1845–9 (5 ref.) **(Jpn)**

[A case of subdural empyema with hemorrhage] Yoshioka H, et al. **No To Shinkei** 1996 Oct;48(10):943–7 (Eng. Abstr.) **(Jpn)**

[Diffuse alveolar hemorrhage associated with idiopathic interstitial pneumonia syndrome after allogeneic bone marrow transplantation] Ohtsuka E, et al. **Rinsho Ketsueki** 1997 Jul;38(7):572–7 (Eng. Abstr.) **(Jpn)**

[Hemorrhagic renal cyst] Muraoka K, et al. **Ryoikibetsu Shokogun Shirizu** 1997;(16 Pt 1):422–4 (18 ref.) **(Jpn)**

[A case of respiratory tract hemorrhage during a course of pulmonary tuberculosis recognized during surgery] Jagiełło R. **Pneumonol Alergol Pol** 1996;64(7–8):467–71 (Eng. Abstr.) **(Pol)**

[Fatal pulmonary hemorrhage in a male patient with microscopic polyarteritis] Beketova TV, et al. **Klin Med (Mosk)** 1996;74(4):57–8 **(Rus)**

[Hemorrhagic and neurological complications in aplastic anemia patients] Bessmel'tsev SS, et al. **Ter Arkh** 1996; 68(2):56–9 (Eng. Abstr.) **(Rus)**

[A combined wound of the esophagus and trachea complicated by mediastinitis and massive arrosive hemorrhage] Labazanov MM. **Vestn Khir Im I I Grek** 1996; (1):90 **(Rus)**

[Intratumor and retroperitoneal massive hemorrhage caused by retroperitoneal liposarcoma] Guzmán Martínez–Valls PL, et al. **Actas Urol Esp** 1996 Sep;20(8):754–6 (Eng. Abstr.) **(Spa)**

[Hemorrhagic syndrome caused by an intense deficit of vitamin K–dependent factors as the presenting form of celiac disease (letter)] Domingo Morera JM, et al. **An Med Interna** 1995 Nov;12(11):568 **(Spa)**

[Bleeding intrahepatic cyst in a patient with chronic pancreatitis (letter)] Bayo Poleo R, et al. **Gastroenterol Hepatol** 1997 Jan;20(1):46–7 **(Spa)**

[Pulmonary hemorrhage and acute respiratory failure secondary to thrombolytic treatment with tissue plasminogen activator (rt–PA) in patients with acute myocardial infarction (letter)] Sandar Núñez D, et al. **Med Clin (Barc)** 1997 Mar 1;108(8):318 **(Spa)**

[Vitamin C deficiency and hemorrhagic syndrome (letter)] Rodríguez Cuartero A. **Rev Clin Esp** 1996 Aug;196(8):570 **(Spa)**

GENETICS

Human plasminogen activator inhibitor–1 (PAI–1) deficiency: characterization of a large kindred with a null mutation in the PAI–1 gene. Fay WP, et al. **Blood** 1997 Jul 1;90(1):204–8

Isolated acral Darier's disease with haemorrhagic lesions in a kindred [letter] Regazzini R, et al. **Br J Dermatol** 1996 Sep;135(3):495–6

Missense mutations at ALA–10 in the factor IX propeptide: an insignificant variant in normal life but a decisive cause of bleeding during oral anticoagulant therapy. Oldenburg J, et al. **Br J Haematol** 1997 Jul;98(1):240–4

Failure of embryonic hematopoiesis and lethal hemorrhages in mouse embryos heterozygous for a knocked–in leukemia gene CBFB–MYH11. Castilla LH, et al. **Cell** 1996 Nov 15;87(4):687–96

Compound heterozygosity for two novel missense mutations in the prothrombin gene in a patient with a severe bleeding tendency. Poort SR, et al. **Thromb Haemost** 1997 Apr; 77(4):610–5

Heterozygote for plasmin inhibitor deficiency developing hemorrhagic tendency with advancing age. Ikematsu S, et al. **Thromb Res** 1996 Apr 15;82(2):129–16

IMMUNOLOGY

Depressed splenic function after hemorrhage results from gastrointestinal tract stimulation of hepatic–mediator release. Correction with portacaval shunt. Ayala A, et al. **Arch Surg** 1996 Nov;131(11):1209–14; discussion 1215

Identification of a monoclonal thrombin inhibitor associated with multiple myeloma and a severe bleeding disorder. Colwell NS, et al. **Br J Haematol** 1997 Apr;97(1):219–26

Mechanisms regulating eosinophil extravasation in asthma. Knol EF, et al. **Eur Respir J Suppl** 1996 Aug;22:136s–140s (60 ref.)

Diffuse alveolar hemorrhage associated with proteinase 3–specific anti–neutrophil cytoplasmic antibodies. Kikawada M, et al. **Intern Med** 1997 Jun;36(6):430–4

Hemorrhage increases cytokine expression in lung mononuclear cells in mice: involvement of catecholamines in nuclear factor–kappaB regulation and cytokine expression. Le Tulzo Y, et al. **J Clin Invest** 1997 Apr 1; 99(7):1516–24

Hepatic necrosis and haemorrhage in pregnant patients with antiphospholipid antibodies. Amant F, et al. **Lupus** 1997; 6(6):552–5

METABOLISM

Female reproductive cycle influences plasma volume and protein restitution after hemorrhage in the conscious rat. Slimmer LM, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R626–33

Gut ischemia and mesenteric synthesis of inflammatory cytokines after hemorrhagic or endotoxic shock. Tamion F, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G314–21

Hemorrhage induces rapid in vivo activation of CREB and NF–kappaB in murine intraparenchymal lung mononuclear cells. Shenkar R, et al. **Am J Respir Cell Mol Biol** 1997 Feb;16(2):145–52

Erythropoietin production in healthy volunteers subjected to controlled haemorrhage: evidence against a major role for adenosine. Gleiter CH, et al. **Br J Clin Pharmacol** 1996 Dec;42(6):729–35

Arginine vasotocin gene expression and secretion during osmotic stimulation and hemorrhagic hypotension in hens. Jaccoby S, et al. **Gen Comp Endocrinol** 1997 Jun; 106(3):327–37

Hemorrhage and resuscitation alter the expression of ICAM–1 and P–selectin in mice. Shenkar R, et al. **J Inflamm** 1995;45(4):248–59

Increased nitric oxide in exhaled gas is an early marker of hypovolemic states. Carlin RE, et al. **J Surg Res** 1997 May; 69(2):362–6

Alpha–adrenergic activation of myocardial NF kappa B during hemorrhage. Meldrum DR, et al. **J Surg Res** 1997 May;69(2):268–76

Hemorrhage suppresses fever, interleukin–6, and tumor necrosis factor–alpha responses to lipopolysaccharide in rats. Soszynski D, et al. **Neuroimmunomodulation** 1996 Jul–Aug;3(4):239–46

Alterations in transcriptional regulation of proinflammatory and immunoregulatory cytokine expression by hemorrhage, injury, and critical illness. Abraham E. **New Horiz** 1996 May;4(2):184–93 (98 ref.)

Long–term resuscitation of hemorrhage/reperfusion injury (H/R) stimulates renal PGE2 release. Myers SI, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 May; 54(5):335–9

Interaction of a new depolymerized holothurian glycosaminoglycan with proteins in human plasma. Minamiguchi K, et al. **Thromb Res** 1996 Aug 1;83(3):253–64

[Effects of steroids on hepatic ATP and L/P ratio in rats subjected to acute hemorrhage] Ikeya K, et al. **Masui** 1997 May;46(5):613–7 (Eng. Abstr.) **(Jpn)**

[A hemin study of hemorrhages in the area of stab–cutting wounds] Ivanov IN, et al. **Sud Med Ekspert** 1997 Jan–Mar; 40(1):15–7 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Use of polymerase chain reaction to identify pneumococcal infection associated with hemorrhage and shock in two previously healthy young children. Messmer TO, et al. **Clin Chem** 1997 Jun;43(6 Pt 1):930–5

Conjunctival injection, episcleral vessel dilation, and subconjunctival hemorrhage in patients with new tsutsugamushi disease. Kato T, et al. **Jpn J Ophthalmol** 1997 May–Jun;41(3):196–9

MORTALITY

Cardiovascular regulation by endogenous nitric oxide is essential for survival after acute haemorrhage. Mellander S, et al. **Acta Physiol Scand** 1997 May;160(1):57–65

Fatal pulmonary hemorrhage in patients with acute leukemia and fulminant pneumonia caused by Stenotrophomonas maltophilia. Elsner HA, et al. **Ann Hematol** 1997 Apr; 74(4):155–61

Early identification of patients at risk of death due to infections, hemorrhage, or graft failure after allogeneic bone marrow transplantation on the basis of the leukocyte counts. Mehta J, et al. **Bone Marrow Transplant** 1997 Feb; 19(4):349–55

PATHOLOGY

Pathological case of the month. Infantile acute hemorrhagic edema. Colantonio G, et al. **Arch Pediatr Adolesc Med** 1997 May;151(5):523–4

Mast cells accompany microvessels in human coronary atheromas: implications for intimal neovascularization and hemorrhage. Kaartinen M, et al. **Atherosclerosis** 1996 Jun; 123(1–2):123–31

MR of post traumatic spinal cord lesions. Unexpected improvement of hemorrhagic lesions. Wasenko JJ, et al. **Clin Imaging** 1997 Jul–Aug;21(4):246–51

Venous aneurysm, arterial dysplasia, and near–fatal hemorrhages in neurofibromatosis type 1. Nopajaroonsri C, et al. **Hum Pathol** 1996 Sep;27(9):982–5

Laceration of the liver with delayed massive intra–abdominal hemorrhage: a case report of child abuse. Aoki Y, et al. **Nippon Hoigaku Zasshi** 1997 Feb;51(1):44–7

Relapsing hemorrhagic varicella. Suwabe H, et al. **Pathol Int** 1996 Aug;46(8):605–9

[Ultrastructure of the kidney in acute massive hemorrhage at moderate and high altitudes] Zufarov KA, et al. **Aviakosm Ekolog Med** 1997;31(3):48 **(Rus)**

PHYSIOPATHOLOGY

Orthostatic change in shock index: comparison with traditional tilt test definitions. Witting MD, et al. **Acad Emerg Med** 1996 Oct;3(10):926–31

Central cardiovascular and oxygen variables during haemorrhage in the pig. Krantz T, et al. **Acta Anaesthesiol Scand** 1997 Jun;41(6):719–24

Regional heterogeneity and differential vulnerability of cerebral and spinal vascular CO2–responsiveness during graded haemorrhagic hypotension. Komjáti K, et al. **Acta Physiol Hung** 1996;84(3):229–49

Endogenous nitric oxide as a physiological regulator of vascular tone in cat skeletal muscle during haemorrhage. Ekelund U, et al. **Acta Physiol Scand** 1996 Aug; 157(4):471–9

Cardiovascular regulation by endogenous nitric oxide is essential for survival after acute haemorrhage. Mellander S, et al. **Acta Physiol Scand** 1997 May;160(1):57–65

Intracerebroventricular angiotensin II increases tolerance to blood loss in conscious sheep. Ullman JE, et al. **Acta Physiol Scand** 1996 Jun;157(2):265–74

Endometriosis—a disease because it is characterized by bleeding. Brosens IA. **Am J Obstet Gynecol** 1997 Feb; 176(2):263–7 (25 ref.)

Impairment of blood volume restitution after large hemorrhage: a mathematical model. Carlson DE, et al. **Am J Physiol** 1996 May;270(5 Pt 2):R1163–77

Role of KATP channels on modulating diaphragmatic microvascular flow during hemorrhagic hypotension. Chang HY, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):H272–8

Hemorrhage induces acute cardioadaptation to ischemia–reperfusion by an alpha1–adrenoceptor–mediated, protein synthesis–independent mechanism. Meldrum DR, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R718–25

Systemic blood loss affects NF–kappa B regulatory mechanisms in the lungs. Moine P, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):L185–92

Contribution of humoral systems to the short–term variability of blood pressure after severe hemorrhage. Ponchon P, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):R58–69

Hemorrhage activates NF–kappa B in murine lung mononuclear cells in vivo. Shenkar R, et al. **Am J Physiol** 1996 May;270(5 Pt 1):L729–35

Female reproductive cycle influences plasma volume and protein restitution after hemorrhage in the conscious rat. Slimmer LM, et al. **Am J Physiol** 1996 Sep;271(3 Pt 2):R626–33

Systemic and renal hemodynamic effects of hemorrhage in conscious lambs. Smith FG, et al. **Am J Physiol** 1997 Jul; 273(1 Pt 2):H339–46

Changes in arterioles, arteries, and local perfusion of the brain stem during hemorrhagic hypertension. Toyoda K, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1350–4

Control of renal and mesenteric conductance during hemorrhage in conscious hypertensive rabbits. Weichert G, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):H1531–40

Severe bleeding in two patients due to increased sensitivity of factor IX activity to phenprocoumon therapy. Quenzel EM, et al. **Ann Hematol** 1997 Jun;74(6):265–8

Relationships of the circadian rhythms of thrombotic, ischemic, hemorrhagic, and arrhythmic events to blood pressure rhythms. Manfredini R, et al. **Ann N Y Acad Sci** 1996 Aug 15;783:141–58 (183 ref.)

Effects of hemorrhagic hypotension on cerebral blood flow and perfused capillaries in newborn pigs. Anwar M, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):157–62

Infarct size, myocardial hemorrhage, and recovery of function after mechanical versus pharmacological reperfusion: effects of lytic state and occlusion time. Pislaru SV, et al. **Circulation** 1997 Jul 15;96(2):659–66

Effect of haemorrhage on the power of low frequency blood pressure fluctuations in young spontaneously hypertensive rats. Eliash S, et al. **Clin Exp Pharmacol Physiol Suppl** 1995; 1:S112–3

Stimulation of systemic bone formation induced by experimental blood loss. Lucas TS, et al. **Clin Orthop** 1997 Jul;(340):267–75

Central and regional hemodynamics during acute hypovolemia and volume substitution in volunteers. Riddez L, et al. **Crit Care Med** 1997 Apr;25(4):635–40

Vocal fold hemorrhage: resolution. Sataloff RT, et al. **Ear Nose Throat J** 1996 May;75(5):274

Vocal fold hemorrhage. Spiegel JR, et al. **Ear Nose Throat J** 1996 Dec;75(12):784–9

Effect of ovariectomy and steroid hormone replacement on the recovery of arterial blood pressure following haemorrhage in anaesthetized Brattleboro rats. Morrissey SE, et al. **Eur J Endocrinol** 1997 Mar;136(3):330–7

Effects of graded hemorrhage on short-term variability of blood pressure in conscious rats. Baujard C, et al. **Fundam Clin Pharmacol** 1996;10(6):511–7

Evaluation of indicators of tissue hypoxia during progressive hemorrhage and blood retransfusion. Hossain MA, et al. **In Vivo** 1997 Jan–Feb;11(1):39–44

Pulmonary vascular pressures of exercising thoroughbred horses with and without endoscopic evidence of EIPH. Manohar M, et al. **J Appl Physiol** 1996 Oct;81(4):1589–93

Posthemorrhagic antipyresis: what stage of fever genesis is affected? Romanovsky AA, et al. **J Appl Physiol** 1997 Aug; 83(2):359–65

Esophageal PCO2 as a monitor of perfusion failure during hemorrhagic shock. Sato Y, et al. **J Appl Physiol** 1997 Feb; 82(2):558–62

3.5% hypertonic saline produces sympathetic activation in hemorrhaged rabbits. Seki K, et al. **J Auton Nerv Syst** 1997 May 12;64(1):49–56

Changes in tissue blood flow and sympathetic activities to various organs during prolonged hemorrhagic hypotension in monkeys. Tanaka S, et al. **J Auton Nerv Syst** 1996 Sep 12;60(3):121–8

Blood, sweat and fear. "A classification of hematidrosis". Holoubek JE, et al. **J Med** 1996;27(3–4):115–33 (53 ref.)

Transient lupus anticoagulants associated with hemorrhage rather than thrombosis: the hemorrhagic lupus anticoagulant syndrome. Becton DL, et al. **J Pediatr** 1997 Jun;130(6):998–1000

Fetal circulatory responses during maternal bleeding. Yoshihara H, et al. **J Perinat Med** 1996;24(5):479–87

Effects of nitric oxide inhibition on systemic and renal hemodynamics in the hemorrhaged rat. Lieberthal W, et al. **Kidney Blood Press Res** 1996;19(6):340–6

Pathophysiology and treatment of variceal hemorrhage. Roberts LR, et al. **Mayo Clin Proc** 1996 Oct;71(10):973–83 (63 ref.)

Changes in renal microcirculation induced by infusion of (Fe3+)-and (Fe2+)-myoglobin during hemorrhagic hypotension in the anesthetized rat: influence of L-NAME and 8-Br-cyclic GMP. Vetterlein F, et al. **Nephron** 1996; 73(2):243–50

Endothelium-dependent relaxation and vasospasm in the single-hemorrhage canine model. Doi M, et al. **Neurol Res** 1996 Dec;18(6):553–8

Central noradrenergic neurons signal via ATP to elicit vasopressin responses to haemorrhage. Buller KM, et al. **Neuroscience** 1996 Aug;73(3):637–42

Endothelial cell expression of intercellular adhesion molecule 1 in experimental posthemorrhagic vasospasm. Sills AK Jr, et al. **Neurosurgery** 1997 Aug;41(2):453–60; discussion 460–1

Pre-stress carbohydrate solution prevents fatal outcome after hemorrhage in 24-hour food-deprived rats. Nettelbladt CG, et al. **Nutrition** 1996 Oct;12(10):696–9

The effects of treatment with indomethacin on the cerebral vasculature of newborn piglets before and during hemorrhagic hypotension. Hayden JE, et al. **Pediatr Res** 1997 Jan;41(1):78–82

Neonatal androgenization potentiates the inhibitory effects of blood withdrawal on ovulation in the rat. Lin JF, et al. **Proc Soc Exp Biol Med** 1996 Dec;213(3):268–72

Effects of chronic central administration of losartan on the cardiovascular and hormonal responses to hemorrhage in conscious rats. Yang EK, et al. **Regul Pept** 1996 Dec 3; 67(2):107–13

Transvascular albumin transport and protein replenishment after haemorrhage in the chronically catheterized pregnant rabbit. Valenzuela GJ, et al. **Reprod Fertil Dev** 1996; 8(1):183–7

Hematological recovery in Sparus aurata after bleeding. A time course study. Montero D, et al. **Rev Esp Fisiol** 1995 Dec;51(4):219–26

The lymphatic circulation plays a dynamic role in blood volume and plasma protein restitution after hemorrhage. Lloyd SJ, et al. **Shock** 1996 Jun;5(6):416–23

Reticuloendothelial function after hemorrhage and hypothermia. van Rijen EA, et al. **Shock** 1997 Apr; 7(4):300–3

An ETa/ETb endothelin antagonist ameliorates systemic inflammation in a murine model of acute hemorrhagic pancreatitis. Todd KE, et al. **Surgery** 1997 Aug; 122(2):443–9; discussion 449–50

Mechanisms of bleeding and thrombosis in myeloproliferative disorders. Landolfi R, et al. **Thromb Haemost** 1997 Jul; 78(1):617–21 (25 ref.)

Experimental haemorrhage and blood component transfusion in humans: no change in plasma concentration of thrombin-antithrombin complex and plasmin-antiplasmin complex. Henriksson AE, et al. **Thromb Res** 1996 Jun 1; 82(5):409–15

Hindquarter sympathetic tone induced by small blood loss in conscious rats. Teranishi Y, et al. **Tohoku J Exp Med** 1997 May;182(1):69–73

[Differences in blood supply of the brain and liver during acute blood loss in rats with different resistance to circulatory hypoxia] Kovalenko NIa, et al. **Biull Eksp Biol Med** 1997 Mar;123(3):253–7 **(Rus)**

[Blood pressure of the hepatic artery in measured bleeding and its association with occlusion in experimental animals] Uzhva VP. **Klin Khir** 1996;(8):32–3 **(Rus)**

PREVENTION & CONTROL

No subacute thrombosis and femoral bleeding complications under full anticoagulation in 150 consecutive patients receiving non-heparin-coated intracoronary Palmaz-Schatz stents. Lee SW, et al. **Am Heart J** 1996 Dec;132(6):1135–46

Reduction of thrombotic and hemorrhagic complications after stent implantation. Pan M, et al. **Am Heart J** 1996 Dec;132(6):1119–26

Standard versus low-dose weight-adjusted heparin in patients treated with the platelet glycoprotein IIb/IIIa receptor antibody fragment abciximab (c7E3 Fab) during percutaneous coronary revascularization. PROLOG Investigators. Lincoff AM, et al. **Am J Cardiol** 1997 Feb 1;79(3):286–91

Comfort and bleeding after percutaneous transluminal coronary angioplasty: comparison of a flexible sheath and a standard sheath. Mayer DM, et al. **Am J Crit Care** 1997 Sep;6(5):341–7

Posterior deviation of the classical approach to the carotid artery to control hemorrhage from a carotido-cutaneous fistula. Prêtre R, et al. **Am Surg** 1996 Dec;62(12):981–3

"Bean bag" pelvic stabilization [letter] Falcone RE, et al. **Ann Emerg Med** 1996 Oct;28(4):458

Tranexamic acid in oncology. Seto AH, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):868–70 (11 ref.)

Clinical results of a stringent policy on prophylactic platelet transfusion: non-randomized comparative analysis in 190 bone marrow transplant patients from a single institution. Gil-Fernández JJ, et al. **Bone Marrow Transplant** 1996 Nov;18(5):931–5

Technique for rapid control of bleeding from an aortoenteric fistula. Loftus IM, et al. **Br J Surg** 1997 Aug;84(8):1114

Renal angiomyolipomas: long-term follow-up of embolization for acute hemorrhage. Hamlin JA, et al. **Can Assoc Radiol J** 1997 Jun;48(3):191–8

Keratinocyte growth factor ameliorates cyclophosphamide-induced ulcerative hemorrhagic cystitis. Ulich TR, et al. **Cancer Res** 1997 Feb 1;57(3):472–5

Modification of minitracheostomy technique to limit bleeding complications. Parry GW, et al. **Eur J Cardiothorac Surg** 1995;9(11):659–60

Should heparin be reversed after carotid endarterectomy? A randomised prospective trial. Fearn SJ, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):394–7

Further evidence in favor of pharmacological portal pressure reduction in the prevention of variceal hemorrhage. García-Tsao G. **Gastroenterology** 1997 May;112(5):1770–1

Primary prophylaxis of variceal bleeding in cirrhosis: a cost-effectiveness analysis. Teran JC, et al. **Gastroenterology** 1997 Feb;112(2):473–82

Protamine sulphate inhibits pentasaccharide (SR80027)-induced bleeding without affecting its antithrombotic and anti-factor Xa activity in the rat. Bernat A, et al. **Haemostasis** 1996 Jul–Aug;26(4):195–202

Endoscopic variceal ligation in prophylaxis of first variceal bleeding in cirrhotic patients with high-risk esophageal varices. Lay CS, et al. **Hepatology** 1997 Jun;25(6):1346–50

The management of bleeding following surgery requiring hypothermic circulatory arrest. Rooney SJ, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):238–42

Preventing expulsive hemorrhage using an anterior chamber maintainer to eliminate hypotony. Blumenthal M, et al. **J Cataract Refract Surg** 1997 May;23(4):476–9

Randomized study of prophylactic platelet transfusion threshold during induction therapy for adult acute leukemia: 10,000/microL versus 20,000/microL. Heckman KD, et al. **J Clin Oncol** 1997 Mar;15(3):1143–9

Surgical repair of congenital diaphragmatic hernia during extracorporeal membrane oxygenation: hemorrhagic complications and the effect of tranexamic acid. van der Staak FH, et al. **J Pediatr Surg** 1997 Apr;32(4):594–9

Platelet glycoprotein IIb/IIIa receptor blockade and low-dose heparin during percutaneous coronary revascularization. The EPILOG Investigators [see comments] **N Engl J Med** 1997 Jun 12;336(24):1689–96. Comment in: N Engl J Med 1997 Jun 12;336(24):1748–9.

Preventing coronary restenosis and complications [editorial; comment] Holmes DR Jr. **N Engl J Med** 1997 Jun 12; 336(24):1748–9. Comment on: N Engl J Med 1997 Jun 12;336(24):1689–96. Comment on: N Engl J Med 1997 Jun 12;336(24):1697–703.

Platelet stimulating agents--off the launching pad [news] Nimer SD. **Nat Med** 1997 Feb;3(2):154–5

Stop the bleeding at industrial sites. Bacon CA. **Occup Health Saf** 1996 Apr;65(4):30–1

Prevention and treatment of hemorrhagic cystitis. West NJ. **Pharmacotherapy** 1997 Jul–Aug;17(4):696–706 (79 ref.)

Implications of new dry fibrin sealant technology for trauma surgery. Holcomb JB, et al. **Surg Clin North Am** 1997 Aug; 77(4):943–52 (35 ref.)

[Assessment of complications of major orthopedic surgery: comparison of indobufen, calcium heparin, and low molecular heparin] Borghi B, et al. **Minerva Anestesiol** 1996 Mar;62(3):93–100 (Eng. Abstr.) **(Ita)**

[The prevention of hemorrhagic cystitis during the performance of bone marrow and peripheral blood stem cell transplantation in the hematologic cancer clinic] Uss AL, et al. **Ter Arkh** 1996;68(10):49–52 (Eng. Abstr.) **(Rus)**

[The prevention of the hemorrhagic and pulmonary complications of extracorporeal detoxification in the multiple organ failure syndrome] Sadchikov DV, et al. **Vestn Khir Im I I Grek** 1996;155(2):79–81 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Neonatal thymic haemorrhage. Bees NR, et al. **Br J Radiol** 1997 Feb;70:210–2

A woman with cavitating left upper lobe lesion. **Chest** 1997 Jun;111(6):1757–8

CT evaluation of underlying cause in spontaneous subcapsular and perirenal hemorrhage. Sebastià MC, et al. **Eur Radiol** 1997;7(5):686–90

A patient with haemoptysis, rapidly changing pulmonary infiltrates and left flank pain. Lai YP, et al. **Eur Respir J** 1996 Oct;9(10):2184–7

CT of hemorrhagic complications of anticoagulant therapy. Pretorius ES, et al. **J Comput Assist Tomogr** 1997 Jan–Feb; 21(1):44–51

Clinical image. Shoulder harness seatbelt injury: CT appearance of hepatic avulsion with active arterial hemorrhage. Steinberg ML, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):938–9

[Acute abdomen with palpable resistance in the pelvis and painful kidney region.Acute retroperitoneal hemorrhage from angiomyolipoma kidney in tuberous sclerosis (Bourneville-Pringle disease)] Hünerbein R, et al. **Radiologe** 1997 Apr;37(4):333–5 **(Ger)**

[Potentialities of contrast angiography and endovascular embolization in ent bleeding] Ovchinnikov IM, et al. **Vestn Otorinolaringol** 1997;(2):31–2 **(Rus)**

[Adrenal gland hemorrhage in neonates--radiologic aspects] Smoljanić Z, et al. **Srp Arh Celok Lek** 1997 Sep–Oct; 125(9–10):295–8 (Eng. Abstr.) **(Scc)**

RADIONUCLIDE IMAGING

Renal hemorrhage detection with Tc-99m labeled erythrocytes in a patient with polycystic disease. Cesani F, et al. **Clin Nucl Med** 1996 Aug;21(8):658–9

Extraosseous Tc-99m methylene diphosphonate uptake related to pulmonary bleeding. Tondeur M, et al. **Clin Nucl Med** 1997 Apr;22(4):255–6

SURGERY

Major haemorrhage associated with a pseudocyst in chronic pancreatitis: a gastro-surgical challenge. Rantala A, et al. **Ann Chir Gynaecol** 1996;85(3):217–21

TIPS (transjugular intrahepatic portasystemic shunt) for the surgeon. Patch D, et al. **Br J Surg** 1997 Jan;84(1):33

Transjugular portosystemic shunt for treatment of bleeding stomal varices. Johnson PA, et al. **Dig Dis Sci** 1997 Feb; 42(2):440–2

Innovative indications for tips. Conn HO. **Hepatology** 1997 Jun;25(6):1543–5

Treatment of haemorrhage following rupture of aortic leiomyosarcoma. Survival for 4.2 years. Testini M, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):593–6 (16 ref.)

Life-threatening, delayed hemorrhage after Le Fort I osteotomy requiring surgical intervention: report of two cases. Tiner BD, et al. **J Oral Maxillofac Surg** 1997 Jan; 55(1):91–3; discussion 93–4

Intrahepatic vascular clamping in complex hepatic vein injuries. Carrillo EH, et al. **J Trauma** 1997 Jul;43(1):131–3

A method for management of extraperitoneal pelvic bleeding secondary to penetrating trauma. Gonzalez RP, et al. **J Trauma** 1997 Aug;43(2):338–41

Ligation: an alternative for control of exsanguination in major vascular injuries. Pourmoghadam KK, et al. **J Trauma** 1997 Jul;43(1):126–30

Treatment of cyclophosphamide induced hemorrhagic cystitis with neodymium:YAG laser in pediatric patients. Gweon P, et al. **J Urol** 1997 Jun;157(6):2301–2

Glial cyst in the thalamus with intracystic hemorrhage--case report. Tokumitsu N, et al. **Neurol Med Chir (Tokyo)** 1997 Mar;37(3):284–7

Superior gluteal artery injury secondary to posterior iliac crest bone graft harvesting. A surgical technique to control hemorrhage. Shin AY, et al. **Spine** 1996 Jun 1;21(11):1371–4

Complication of acute pancreatitis: management of a haemorrhagic pancreatic pseudocyst. Garg P, et al. **Trop Doct** 1997 Jul;27(3):184

[Argon plasma coagulation through a flexible endoscope. Evaluation of a new therapeutic method after 1606 uses] Grund KE, et al. **Dtsch Med Wochenschr** 1997 Apr 4; 122(14):432–8 (Eng. Abstr.) **(Ger)**

[Spontaneous pregnancy after ligation of the uterine artery] Abendstein B, et al. **Gynakol Geburtshilfliche Rundsch** 1997; 37(1):41–3 (Eng. Abstr.) **(Ger)**

[Prosthesis of the infected portion of the femoral artery with a segment of the superficial femoral vein in arrosive hemorrhage] Tanryberdiev MO, et al. **Vestn Khir Im I I Grek** 1997;156(3):80 **(Rus)**

THERAPY

High frequency jet ventilation for severe pulmonary hemorrhage during aortic dissection operation--a case report. Cheng KS, et al. **Acta Anaesthesiol Sin** 1997 Mar; 35(1):51–4

Uterine artery embolization: an underused method of

controlling pelvic hemorrhage. Vedantham S, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):938–48 (49 ref.)

Role of ET and NO in resuscitative effect of diaspirin cross-linked hemoglobin after hemorrhage in rat. Gulati A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H827–36

Effect of immediate fluid resuscitation on the rate, volume, and duration of pulmonary vascular hemorrhage in a sheep model of penetrating thoracic trauma. Sakles JC, et al. **Ann Emerg Med** 1997 Mar;29(3):392–9

Endovascular management of hemorrhage in patients with head and neck cancer. Morrissey DD, et al. **Arch Otolaryngol Head Neck Surg** 1997 Jan;123(1):15–9

Treatment of massive hemorrhage with liposome encapsulated human hemoglobin (NRC) and hydroxyethyl starch (HES) in beagles. Takaori M, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):643–53

Arterial complications of pancreatitis and their radiological management. Sawlani V, et al. **Australas Radiol** 1996 Nov; 40(4):381–6 (14 ref.)

Microcatheter embolization of hemorrhages. Seppänen SK, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun; 20(3):174–9

Re: Percutaneous transcatheter embolization for hemorrhage from an empyema necessitatis of the thoracic wall [letter] Yasui K, et al. **Cardiovasc Intervent Radiol** 1997 Sep–Oct; 20(5):407–8

Internal iliac artery embolization in the management of pelvic bleeding [editorial; comment] Wells I. **Clin Radiol** 1996 Dec;51(12):825–7 (22 ref.). Comment on: Clin Radiol 1996 Dec;51(12):865–8.

Central and regional hemodynamics during acute hypovolemia and volume substitution in volunteers. Riddez L, et al. **Crit Care Med** 1997 Apr;25(4):635–40

Bleeding risks, risk factors and management of bleeding complications after treatment with anticoagulants, specific antithrombins, thrombolytics IIb–IIIa receptor blockers. Armstrong PW, et al. **Eur Heart J** 1995 Nov;16 Suppl L:75–80 (28 ref.)

Intracardiac fluid resuscitation in penetrating cardiac wounds. Najm HK. **Injury** 1997 Apr;28(3):231–2

Long-term therapy for uremic bleeding [editorial] [see comments] Sloand JA. **Int J Artif Organs** 1996 Aug; 19(8):439–40 (15 ref.). Comment in: Int J Artif Organs 1997 Mar;20(3):184–5.

Massive haemorrhage of inoperable bladder carcinomas: treatment by intravesical formalin solution. Giannakopoulos X, et al. **Int Urol Nephrol** 1997;29(1):33–8

Control of venous hemorrhage during laparoscopic adrenalectomy: a case report. Carlson MA, et al. **J Laparoendosc Surg** 1996 Oct;6(5):349–51

Administration of ATP-MgCl2 after trauma-hemorrhage and resuscitation restores the depressed cardiac performance. Robinson DA, et al. **J Surg Res** 1997 Apr; 69(1):159–65

Arterial embolization is a rapid and effective technique for controlling pelvic fracture hemorrhage. Agolini SF, et al. **J Trauma** 1997 Sep;43(3):395–9

Cellular responses to surgical trauma, hemorrhage, and resuscitation with diaspirin cross-linked hemoglobin in rats. Xu L, et al. **J Trauma** 1997 Jan;42(1):32–41

Transcatheter embolization for retroperitoneal hemorrhage secondary to acquired cystic kidney disease. Friedberg EB, et al. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):291–4

Thorotrast-associated oropharyngeal hemorrhage: treatment by means of carotid occlusion with use of flow arrest and fibered coils. Kesava PP, et al. **J Vasc Interv Radiol** 1996 Sep–Oct;7(5):709–12

Successful treatment of a bleeding renal tumor with ethanol [letter] Machan LS, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):152–3

Multiple hepatic hemorrhagic mycotic pseudoaneurysms treated with embolization. Tharp RW, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):876–8

Pathophysiology and treatment of variceal hemorrhage. Roberts LR, et al. **Mayo Clin Proc** 1996 Oct;71(10):973–83 (63 ref.)

A computer model of major haemorrhage and resuscitation. Simpson SH, et al. **Med Eng Phys** 1996 Jun;18(4):339–43

Use of unrefrigerated fresh whole blood in massive transfusion [letter; comment] Hays RB. **Med J Aust** 1996 Nov 4;165(9):525; discussion 526. Comment on: Med J Aust 1996 Jul 1;165(1):11–3.

Use of unrefrigerated fresh whole blood in massive transfusion [letter; comment] Hodge AJ. **Med J Aust** 1996 Nov 4;165(9):525–6. Comment on: Med J Aust 1996 Jul 1;165(1):9–10. Comment on: Med J Aust 1996 Jul 1;165(1):11–3.

Superselective embolization in the treatment of active bleeding after percutaneous renal biopsy [letter] Park SB, et al. **Nephron** 1996;73(2):363–4

Assessment and management of pelvic fracture in the hemodynamically unstable patient. Wolinsky PR. **Orthop Clin North Am** 1997 Jul;28(3):321–9 (58 ref.)

Intracystic hemorrhage in pancreatic pseudocysts: initial experiences of a treatment protocol. Sand JA, et al. **Pancreas** 1997 Mar;14(2):187–91

Prevention and treatment of hemorrhagic cystitis. West NJ. **Pharmacotherapy** 1997 Jul–Aug;17(4):696–706 (79 ref.)

Transcatheter arterial embolization as treatment for life-threatening maxillofacial injury. Murakami R, et al. **Radiat Med** 1996 Jul–Aug;14(4):197–9

Hypotensive resuscitation [editorial] [see comments] Dries DJ. **Shock** 1996 Nov;6(5):311–6 (41 ref.). Comment in: Shock 1996 Nov;6(5):317–8.

Judgment driven resuscitation—new acquaintance or old friend? [comment] Flint L. **Shock** 1996 Nov;6(5):317–8. Comment on: Shock 1996 Nov;6(5):311–6.

Emergency oral anticoagulant reversal: the relative efficacy of infusions of fresh frozen plasma and clotting factor concentrate on correction of the coagulopathy. Makris M, et al. **Thromb Haemost** 1997 Mar;77(3):477–80

Similar effectiveness of Fab and F(ab')2 antivenoms in the neutralization of hemorrhagic activity of Vipera berus snake venom in mice. Lomonte B, et al. **Toxicon** 1996 Oct; 34(10):1197–202

[Embolization of traumatic hemorrhages] Mels F, et al. **J Belge Radiol** 1996 Nov;79(5):212–5 (Eng. Abstr.) **(Dut)**

[Endovascular treatment of hemorrhagic renal angiomyolipoma with platinum microcoils] Beaujeux R, et al. **Prog Urol** 1996 Jun;6(3):424–8 (Eng. Abstr.) **(Fre)**

[Management of iatrogenic hemorrhage after mechanical vascular recanalization] Görich J, et al. **Aktuelle Radiol** 1996 Jan;6(1):28–31 (Eng. Abstr.) **(Ger)**

[Prehospital fluid resuscitation] Kreimeier U, et al. **Anaesthesist** 1996 Oct;45(10):884–99 (104 ref.) (Eng. Abstr.) **(Ger)**

[Percutaneous embolization therapy in severe cervicofacial hemorrhages] Kramann B, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):54–61 (Eng. Abstr.) **(Ger)**

[Controlling complications in laparoscopic cholecystectomy: diffuse parenchyma hemorrhage in the liver parenchyma] Köckerling F, et al. **Zentralbl Chir** 1997;122(5):405–8 (Eng. Abstr.) **(Ger)**

[Effectiveness of selective hepatic artery embolization in a child after blunt hepatic trauma] Sweed Y, et al. **Harefuah** 1997 Feb 16;132(4):252–4, 312, 311 (Eng. Abstr.) **(Heb)**

[Urgent medical situation and therapeutic strategy in patients undergoing digestive cancer surgery (inflammation, stenosis, hemorrhage)] Mizobuchi N, et al. **Gan To Kagaku Ryoho** 1997 Feb;24(3):279–84 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Experience in intensive care of acute massive bleeding in children] Marochkov AV, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):63–5 (Eng. Abstr.) **(Rus)**

[Arresting massive retrograde hemorrhage in injury of major vessels in external base of the skull] Kiselev AS. **Vestn Otorinolaringol** 1996 Jul–Aug;(4):50–1 **(Rus)**

[Transfusion therapy in acute blood loss (2)] Briusov PG. **Voen Med Zh** 1997 Feb;318(2):26–31 **(Rus)**

ULTRASONOGRAPHY

Early detection of neonatal adrenal hemorrhage by ultrasonography. Chein CL, et al. **Acta Paediatr Sin** 1996 Mar–Apr;37(2):128–32

Submucosal haemorrhage—or ruptured nodule in a multinodular goitre? Ultrasound scan suggested recent haemorrhage in a left upper pole thyroid nodule [letter] Issa BG, et al. **BMJ** 1997 May 3;314(7090):1351

Acute bicaval obstruction as a result of intracapsular haemorrhage in a right atrial myxoma: report of a case. Walker AH, et al. **Eur J Cardiothorac Surg** 1997 Apr; 11(4):779–81

Prenatal sonographic diagnosis of fetal adrenal gland hemorrhage. Vollersen E, et al. **Fetal Diagn Ther** 1996 Jul–Aug;11(4):286–91

Large paraesophageal varices on endosonography predict recurrence of esophageal varices and rebleeding. Leung VK, et al. **Gastroenterology** 1997 Jun;112(6):1811–6

Extension of hemorrhage after reperfusion of occluded coronary artery: contrast echocardiographic assessment in dogs. Shishido T, et al. **J Am Coll Cardiol** 1997 Aug; 30(2):585–91

Hypotension after blunt abdominal trauma: the role of emergent abdominal sonography in surgical triage. Wherrett LJ, et al. **J Trauma** 1996 Nov;41(5):815–20

Fetal adrenal hemorrhage in a diamniotic, dichorionic twin: case report and review of controversies in diagnosis and management. Rahman S, et al. **J Ultrasound Med** 1997 Apr; 16(4):297–300

Scrotal hematoma due to neonatal adrenal hemorrhage: the value of ultrasonography in avoiding unnecessary surgery. Miele V, et al. **Pediatr Radiol** 1997 Aug;27(8):672–4

VETERINARY

Sole haemorrhages in tied primiparous cows as an indicator of periparturient laminitis: effects of diet, flooring and season. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):383–94

Sole haemorrhages in tied heifers in early gestation as an indicator of laminitis: effects of diet and flooring. Bergsten C, et al. **Acta Vet Scand** 1996;37(4):375–81

Sole haemorrhages and heel horn erosion in dairy cows: the influence of housing system on their prevalence and severity. Bergsten C, et al. **Acta Vet Scand** 1996; 37(4):395–408

Pulmonary vascular pressures of strenuously exercising thoroughbreds after administration of phenylbutazone. Manohar M, et al. **Am J Vet Res** 1996 Sep;57(9):1354–8

Effect of the method of killing, interval between killing and neck cutting and blood vessels cut on blood loss in broilers. Raj AB, et al. **Br Poult Sci** 1997 May;38(2):190–4

Pulmonary artery, aortic and oesophageal pressure changes during high intensity treadmill exercise in the horse: a possible relation to exercise-induced pulmonary haemorrhage [see comments] Erickson BK, et al. **Equine Vet J Suppl** 1990 Jun;(9):47–52. Comment in: Equine Vet J Suppl 1990 Jun;(9):5–6.

Acute hemorrhagic pulmonary infarction and necrotizing pneumonia in horses: 21 cases (1967–1993). Carr EA, et al. **J Am Vet Med Assoc** 1997 Jun 15;210(12):1774–8

Hemorrhagic typhlocolitis associated with attaching and effacing Escherichia coli in common marmosets. Thomson JA, et al. **Lab Anim Sci** 1996 Jun;46(3):275–9

Postanesthetic hemorrhagic myelopathy or myelomalacia. Trim CM. **Vet Clin North Am Equine Pract** 1997 Apr; 13(1):73–7 (23 ref.)

African swine fever: morphopathology of a viral haemorrhagic disease. Rodriguez F, et al. **Vet Rec** 1996 Sep 14;139(11):249–54

VIROLOGY

Presence of human polyomavirus DNA in the peripheral circulation of bone marrow transplant patients with and without hemorrhagic cystitis. Bogdanovic G, et al. **Bone Marrow Transplant** 1996 Apr;17(4):573–6

Co-occurring adenoviral keratitis and hemorrhagic cystitis. A case report. Basti S, et al. **Cornea** 1996 May;15(3):317–9

Nucleotide sequence of the glycoprotein gene of viral haemorrhagic septicaemia (VHS) viruses from different geographical areas: a link between VHS in farmed fish species and viruses isolated from North Sea cod (Gadus morhua L.). Stone DM, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1319–26

HEMORRHAGE, BILIARY TRACT see **HEMOBILIA**

HEMORRHAGE, CEREBRAL see **CEREBRAL HEMORRHAGE**

HEMORRHAGE, CHOROID see **CHOROID HEMORRHAGE**

HEMORRHAGE, EYE see **EYE HEMORRHAGE**

HEMORRHAGE, FETOMATERNAL see **FETOMATERNAL TRANSFUSION**

HEMORRHAGE, GASTROINTESTINAL see **GASTROINTESTINAL HEMORRHAGE**

HEMORRHAGE, GINGIVAL see **GINGIVAL HEMORRHAGE**

HEMORRHAGE, ORAL see **ORAL HEMORRHAGE**

HEMORRHAGE, PEPTIC ULCER see **PEPTIC ULCER HEMORRHAGE**

HEMORRHAGE, POSTOPERATIVE see **POSTOPERATIVE HEMORRHAGE**

HEMORRHAGE, POSTPARTUM see **POSTPARTUM HEMORRHAGE**

HEMORRHAGE, RETINAL see **RETINAL HEMORRHAGE**

HEMORRHAGE, RETROBULBAR see **RETROBULBAR HEMORRHAGE**

HEMORRHAGE, SUBARACHNOID see **SUBARACHNOID HEMORRHAGE**

HEMORRHAGE, SURGICAL see **BLOOD LOSS, SURGICAL**

HEMORRHAGE, UTERINE see **UTERINE HEMORRHAGE**

HEMORRHAGE, VITREOUS see **VITREOUS HEMORRHAGE**

HEMORRHAGIC BACTEREMIA

MICROBIOLOGY

Binding of host iron-binding proteins and expression of iron-regulated membrane proteins by different serotypes of Pasteurella multocida causing haemorrhagic septicaemia. Veken JW, et al. **Microb Pathog** 1996 Jul;21(1):59–64

VETERINARY

Haemorrhagic septicaemia in pigs [letter; comment] Mackie JT. **Aust Vet J** 1996 Nov;74(5):399–400. Comment on: Aust Vet J 1996 Jan;73(1):27–9.

Pasteurella haemolytica septicaemia in sheep. Mackie JT, et al. **Aust Vet J** 1995 Dec;72(12):474

Vacuolating cytotoxic activity of Pasteurella multocida causing haemorrhagic septicaemia in buffalo and cattle. Shah NH, et al. **FEMS Microbiol Lett** 1996 Sep 15; 143(1):97–101

HEMORRHAGIC BACTEREMIA

Protection, humoral and cell-mediated immune responses in calves immunized with multiple emulsion haemorrhagic septicaemia vaccine. Verma R, et al. **Vaccine** 1997 Aug; 15(11):1254–60

Observations on haemorrhagic septicaemia in Pakistan livestock. Sheikh MA, et al. **Zentralbl Veterinarmed [B]** 1996 Jul;43(5):293–304

HEMORRHAGIC DIATHESIS

ABC of clinical haematology. Bleeding disorders, thrombosis, and anticoagulation. Hampton KK, et al. **BMJ** 1997 Apr 5;314(7086):1026–9 (0 ref.)

BLOOD

Studies of the platelet filter test (shear dependent platelet aggregation) in patients with uncommon haemorrhagic disorders. Boda Z, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):162–4

CHEMICALLY INDUCED

Simultaneous occurrence of human antibodies directed against fibrinogen, thrombin, and factor V following exposure to bovine thrombin: effects on blood coagulation, protein C activation and platelet function. Chouhan VD, et al. **Thromb Haemost** 1997 Feb;77(2):343–9

COMPLICATIONS

A long-term follow-up study of interferon treatment for chronic hepatitis C in Japanese patients with congenital bleeding disorders. Yamada M, et al. **Eur J Haematol** 1996 Aug;57(2):165–70

Bleeding diathesis is uremic patients treated with peritoneal dialysis: role of platelet glycoproteins GPIb and GPIIb/IIIa abnormalities [letter; comment] Liani M, et al. **Nephron** 1996;74(1):234. Comment on: Nephron 1994;68(4):442–8. Comment on: Nephron 1996;72(4):716.

Treatment of considerations in patients with compartment syndrome and an inherited bleeding disorder. Naranja RJ Jr, et al. **Orthopedics** 1997 Aug;20(8):706–9; quiz 710–1 (19 ref.)

DIAGNOSIS

The detection of abnormal bleeding. Riggs PN. **Semin Vasc Surg** 1996 Dec;9(4):329–39 (32 ref.)

[Differential diagnosis of infectious hemorrhagic disease and syndromes] Bogomolov BP. **Klin Med (Mosk)** 1996; 74(9):8–13 **(Rus)**

EMBRYOLOGY

Tissue factor pathway inhibitor gene disruption produces intrauterine lethality in mice. Huang ZF, et al. **Blood** 1997 Aug 1;90(3):944–51

EPIDEMIOLOGY

Risk factors for major thromboembolism and bleeding tendency after elective general surgical operations. The Fragmin Multicentre Study Group. Flordal PA, et al. **Eur J Surg** 1996 Oct;162(10):783–9

ETIOLOGY

[Endoscopy in patients at risk for bleeding] Schepke M, et al. **Z Gastroenterol** 1997 Feb;35(2):147–53 (36 ref.) **(Ger)**

[Thrombocyte dysfunction in children with albinism] Pap Z, et al. **Orv Hetil** 1997 Feb 23;138(8):467–71 (Eng. Abstr.) **(Hun)**

[Hemorrhagic diathesis as initial clinical manifestation of celiac disease] Cabrera Chaves T, et al. **Rev Clin Esp** 1996 Jan;196(1):28–31 (Eng. Abstr.) **(Spa)**

[Presentation of a case of celiac disease as a hemorrhagic diathesis in an adult(letter)] Díaz Díaz D, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):333–4 **(Spa)**

GENETICS

[May–Hegglin anomaly: further studies on thrombocyte dysfunction] Mayer K, et al. **Schweiz Med Wochenschr** 1997 Jun 28;127(26):1134–40 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

Circulating anticoagulant of lupus type. Sikka M, et al. **J Indian Med Assoc** 1995 Oct;93(10):394–5

[Anemia and hemorrhagic diathesis in autoimmune hemolysis and immune thrombocytopenia] Stemmler HJ, et al. **Internist (Berl)** 1996 Jan;37(1):78–81 **(Ger)**

PHYSIOPATHOLOGY

The detection of abnormal bleeding. Riggs PN. **Semin Vasc Surg** 1996 Dec;9(4):329–39 (32 ref.)

PREVENTION & CONTROL

Prevention of vitamin K deficiency bleeding: efficacy of different multiple oral dose schedules of vitamin K. Cornelissen M, et al. **Eur J Pediatr** 1997 Feb;156(2):126–30

THERAPY

[Improvement of bleeding tendency and normalized platelet count increment following splenectomy in a patient with refractory anemia] Kawai Y, et al. **Rinsho Ketsueki** 1997 Jun;38(6):532–8 (Eng. Abstr.) **(Jpn)**

[Combined treatment with factor VIII and immunosuppressive agents in a young woman with acquired factor VIII inhibitor] José Aguado M, et al. **Sangre (Barc)** 1996 Apr;41(2):147–50 (Eng. Abstr.) **(Spa)**

HEMORRHAGIC DISEASE OF NEWBORN

COMPLICATIONS

Hemoperitoneum--a rare manifestation of early hemorrhagic disease of newborn [letter] Gupta BD, et al. **Indian Pediatr** 1996 Oct;33(10):874–5

Intracerebral hemorrhage: a rare late manifestation of vitamin-K deficiency in a breastfed infant. A case report. Soylu H, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):265–9

DIAGNOSIS

Vitamin K deficiency bleeding in infancy [letter] Gomber S. **J Trop Pediatr** 1997 Apr;43(2):122

DRUG THERAPY

The present state of vitamin K deficiency bleeding in infancy [letter] Chek JB. **East Afr Med J** 1997 Feb;74(2):118

Does intramuscular vitamin K1 act as an unintended depot preparation? Loughnan PM, et al. **J Paediatr Child Health** 1996 Jun;32(3):251–4 (46 ref.)

Late onset haemorrhagic disease in premature infants who received intravenous vitamin K1. Loughnan PM, et al. **J Paediatr Child Health** 1996 Jun;32(3):268–9

ETIOLOGY

Hemorrhagic disease in an infant fed on a vitamin K–deficien soya formula. Pellegrino M, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):413–4

PHYSIOPATHOLOGY

The relevance of developmental hemostasis to hemorrhagic disorders of newborns. Andrew M. **Semin Perinatol** 1997 Feb;21(1):70–85 (142 ref.)

PREVENTION & CONTROL

Study of the use of vitamin K in neonates in France. Jonville-Bera AP, et al. **Eur J Clin Pharmacol** 1997; 52(5):333–7

Elimination half-life of vitamin K1 in neonates is longer than is generally assumed: implications for the prophylaxis of haemorrhaghic disease of the newborn [letter] Stoeckel K, et al. **Eur J Clin Pharmacol** 1996;49(5):421–3

Late onset haemorrhagic disease in premature infants who received intravenous vitamin K1. Loughnan PM, et al. **J Paediatr Child Health** 1996 Jun;32(3):268–9

Giving vitamin K to newborn infants: a therapeutic dilemma [editorial] Henderson-Smart DJ. **Med J Aust** 1996 Oct 21; 165(8):414–5

[Prevention of hemorrhagic disease in newborns in the Valencia community: current aspects and trends] Miranda Mallea J, et al. **An Esp Pediatr** 1996 Dec;45(6):631–4 (Eng. Abstr.) **(Spa)**

HEMORRHAGIC DISEASE VIRUS, EPIZOOTIC

Evaluation of a competitive ELISA for detection of antibodies to epizootic hemorrhagic disease virus of deer. Afshar A, et al. **J Vet Diagn Invest** 1997 Jul;9(3):309–11

Cell-mediated immune response and IL-2 production in white-tailed deer experimentally infected with hemorrhagic disease viruses. Quist CF, et al. **Vet Immunol Immunopathol** 1997 May;56(3–4):283–97

CLASSIFICATION

Serogrouping and topotyping of Sudanese and United States strains of epizootic hemorrhagic disease virus using PCR. Aradaib IE, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):211–8

GENETICS

Development of PCR-based tests for the identification of North American isolates of epizootic haemorrhagic disease virus. Harding MJ, et al. **Can J Vet Res** 1996 Jan; 60(1):59–64

Serogrouping and topotyping of Sudanese and United States strains of epizootic hemorrhagic disease virus using PCR. Aradaib IE, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):211–8

Molecular characterization of the segment 2 gene of epizootic hemorrhagic disease virus serotype 2: gene sequence and genetic diversity. Cheney IW, et al. **Virology** 1996 Oct 15; 224(2):555–60

IMMUNOLOGY

Expression of the major inner capsid protein of the epizootic haemorrhagic disease virus in baculovirus and potential diagnostic use. Nagesha HS, et al. **Virus Res** 1996 Aug; 43(2):163–9

ISOLATION & PURIFICATION

Development of PCR-based tests for the identification of North American isolates of epizootic haemorrhagic disease virus. Harding MJ, et al. **Can J Vet Res** 1996 Jan; 60(1):59–64

Experimental infection of Culicoides lahillei (Diptera: Ceratopogonidae) with epizootic hemorrhagic disease virus serotype 2 (Orbivirus: Reoviridae). Smith KE, et al. **J Med Entomol** 1996 Jan;33(1):117–22

Application of molecular biological techniques for detection of epizootic hemorrhagic disease virus (EHDV-318) recovered from a sentinel calf in central Sudan. Mohammed ME, et al. **Vet Microbiol** 1996 Oct;52(3–4):201–8

PATHOGENICITY

Interaction of epizootic hemorrhagic disease virus with bovine erythrocytes in vitro: electron microscope study. Aradaib IE, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):281–3

ULTRASTRUCTURE

Interaction of epizootic hemorrhagic disease virus with bovine erythrocytes in vitro: electron microscope study. Aradaib IE, et al. **Comp Immunol Microbiol Infect Dis** 1997 Jun;20(3):281–3

HEMORRHAGIC DISEASE VIRUS, RABBIT

Oral immunization of rabbits with VP60 particles confers protection against rabbit hemorrhagic disease. Plana-Duran J, et al. **Arch Virol** 1996;141(8):1423–36

Statutory controls on viral haemorrhagic disease of rabbits to be removed [news] Elliott J. **J Small Anim Pract** 1996 Nov;37(11):564

European brown hare syndrome in free-ranging hares in Poland. Frölich K, et al. **J Wildl Dis** 1996 Apr;32(2):280–5

Wide use of rabbit virus is good news for native species [news] [see comments] Drollette D. **Science** 1997 Jan 10; 275(5297):154. Comment in: Science 1997 Apr 4;276(5309):20.

Rabbit control in New Zealand [letter; comment] Duston TH. **Science** 1997 Apr 4;276(5309):20. Comment on: Science 1997 Jan 10;275(5297):154.

Rabbit control in New Zealand [letter; comment] van Roy Y. **Science** 1997 Apr 4;276(5309):20. Comment on: Science 1997 Jan 10;275(5297):154.

Susceptibility of wild rabbits (Oryctolagus cuniculus) in the United Kingdom to rabbit haemorrhagic disease (RHD). Chasey D, et al. **Vet Res** 1997 May–Jun;28(3):271–6

Susceptibility of hares and rabbits to the European brown hare syndrome virus (EBHSV) and rabbit haemorrhagic disease virus (RHDV) under experimental conditions. Lavazza A, et al. **Zentralbl Veterinarmed [B]** 1996 Sep; 43(7):401–10

CHEMISTRY

Rabbit hemorrhagic disease virus (RHDV): ultrastructure and biochemical studies of typical and core-like particles present in liver homogenates. Granzow H, et al. **Virus Res** 1996 Apr;41(2):163–72

CLASSIFICATION

Preliminary characterization of a non-haemagglutinating strain of rabbit haemorrhagic disease virus from the United Kingdom. Capucci L, et al. **Zentralbl Veterinarmed [B]** 1996 Jun;43(4):245–50

GENETICS

Phylogenetic analysis of rabbit haemorrhagic disease and European brown hare syndrome viruses by comparison of sequences from the capsid protein gene. Nowotny N, et al. **Arch Virol** 1997;142(4):657–73

Protection against myxomatosis and rabbit viral hemorrhagic disease with recombinant myxoma viruses expressing rabbit hemorrhagic disease virus capsid protein. Bertagnoli S, et al. **J Virol** 1996 Aug;70(8):5061–6

Detection and preliminary characterization of a new rabbit calicivirus related to rabbit hemorrhagic disease virus but nonpathogenic. Capucci L, et al. **J Virol** 1996 Dec; 70(12):8614–23

Genetic map of the calicivirus rabbit hemorrhagic disease virus as deduced from in vitro translation studies. Wirblich C, et al. **J Virol** 1996 Nov;70(11):7974–83

Microheterogeneity of p60 capsid protein and the encoding gene among contemporary isolates of rabbit hemorrhagic disease virus. Viaplana E, et al. **Virus Genes** 1996; 12(2):189–92

The complete nucleotide sequence of rabbit haemorrhagic disease virus (Czech strain V351): use of the polymerase chain reaction to detect replication in Australian vertebrates and analysis of viral population sequence variation. Gould AR, et al. **Virus Res** 1997 Jan;47(1):7–17

IMMUNOLOGY

A single dose immunization with rabbit haemorrhagic disease virus major capsid protein produced in Saccharomyces cerevisiae induces protection. Boga JA, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2315–8

Bivalent binding of a neutralising antibody to a calicivirus involves the torsional flexibility of the antibody hinge. Thouvenin E, et al. **J Mol Biol** 1997 Jul 11;270(2):238–46

Protection of rabbits against rabbit viral haemorrhagic disease with a vaccinia–RHDV recombinant virus. Bertagnoli S, et al. **Vaccine** 1996 Apr;14(6):506–10

A recombinant canarypox virus protects rabbits against a lethal rabbit hemorrhagic disease virus (RHDV) challenge. Fischer L, et al. **Vaccine** 1997 Jan;15(1):90–6

Seroconversion in an industrial unit of rabbits infected with a non–pathogenic rabbit haemorrhagic disease–like virus. Capucci L, et al. **Vet Rec** 1997 Jun 21;140(25):647–50

Viral haemorrhagic disease of rabbits [letter] Taylor KC. **Vet Rec** 1996 Oct 26;139(17):427

Immunogenic properties of rabbit haemorrhagic disease virus structural protein VP60 expressed by a recombinant baculovirus: an efficient vaccine. Marín MS, et al. **Virus Res** 1995 Dec;39(2–3):119–28

ISOLATION & PURIFICATION

Presence of rabbit haemorrhagic disease virus antigen in rabbit tissues as revealed by a monoclonal antibody dependent capture ELISA. Collins BJ, et al. **J Virol Methods** 1996 Apr 26;58(1–2):145–54

Demonstration of rabbit haemorrhagic disease virus antigen by Staphylococcus protein A coagglutination test. Peshev R, et al. **J Virol Methods** 1996 Mar;57(1):15–8

Diagnosis of rabbit haemorrhagic disease (RHD) and European brown hare syndrome (EBHS) by indirect sandwich polyclonal ELISA. Nardelli S, et al. **Zentralbl Veterinarmed [B]** 1996 Sep;43(7):393–400

ULTRASTRUCTURE

Rabbit hemorrhagic disease virus (RHDV): ultrastructure and biochemical studies of typical and core–like particles present in liver homogenates. Granzow H, et al. **Virus Res** 1996 Apr;41(2):163–72

HEMORRHAGIC DISEASE VIRUS, SIMIAN see **ARTERIVIRUS**

HEMORRHAGIC FEVER, AMERICAN

DRUG THERAPY

Treatment of Bolivian hemorrhagic fever with intravenous ribavirin. Kilgore PE, et al. **Clin Infect Dis** 1997 Apr; 24(4):718–22

IMMUNOLOGY

[Immunologic indicators in vaccinated mice with Machupo virus infection] Patrusheva IV, et al. **Vopr Virusol** 1997 May–Jun;42(3):137–40 (Eng. Abstr.) **(Rus)**

METABOLISM

Glial fibrillary acidic protein (GFAP) immunochemical profile after junin virus infection of rat cultured astrocytes. Iacono RF, et al. **Neurosci Lett** 1995 Nov 24;200(3):175–8

PREVENTION & CONTROL

Prospects for the control of Bolivian hemorrhagic fever [editorial] Kilgore PE, et al. **Emerg Infect Dis** 1995 Jul–Sep; 1(3):97–100

[The study of protective properties of attenuated strain of Argentinian hemorrhagic fever] Ignat'ev GM, et al. **Vopr Virusol** 1996 Jul–Aug;41(4):158–61 (Eng. Abstr.) **(Rus)**

VIROLOGY

Sabia virus incident at Yale University. Gandsman EJ, et al. **Am Ind Hyg Assoc J** 1997 Jan;58(1):51–3

HEMORRHAGIC FEVER, ARGENTINIAN see **HEMORRHAGIC FEVER, AMERICAN**

HEMORRHAGIC FEVER, BOLIVIAN see **HEMORRHAGIC FEVER, AMERICAN**

HEMORRHAGIC FEVER, CRIMEAN

Crimean–Congo haemorrhagic fever in Oman. Scrimgeour EM, et al. **Trans R Soc Trop Med Hyg** 1996 May–Jun; 90(3):290–1

DIAGNOSIS

[Serologic diagnosis of Crimean hemorrhagic fever in Kosovo and Metohia] Tomanović S, et al. **Vojnosanit Pregl** 1996 Nov–Dec;53(6):477–81 (Eng. Abstr.) **(Scr)**

EPIDEMIOLOGY

Zoonoses control. Crimean–Congo haemorrhagic fever. **Wkly Epidemiol Rec** 1996 Dec 13;71(50):381–2 **(Eng, Fre)**

ETIOLOGY

Immunohistochemical and in situ localization of Crimean–Congo hemorrhagic fever (CCHF) virus in human tissues and implications for CCHF pathogenesis. Burt FJ, et al. **Arch Pathol Lab Med** 1997 Aug; 121(8):839–46

TRANSMISSION

Crimean–Congo haemorrhagic fever virus infection in the western province of Saudi Arabia. el–Azazy OM, et al. **Trans R Soc Trop Med Hyg** 1997 May–Jun;91(3):275–8

HEMORRHAGIC FEVER, DENGUE see **DENGUE**

HEMORRHAGIC FEVER, EBOLA

Fears over Ebola spread as nurse dies [news] Sidley P. **BMJ** 1996 Nov 30;313(7069):1351

Ebola virus infection: an overview. Samaranayake LP, et al. **Br Dent J** 1996 Apr 6;180(7):264–6 (13 ref.)

Emerging and newly identified viral infections. DeVincenzo JP. **Pediatr Ann** 1996 Sep;25(9):511–7

[Ebola: "a fatal syndrome"] Martínez GA, et al. **Bol Asoc Med P R** 1996 Jul–Sep;88(7–9):69–72 (13 ref.) (Eng. Abstr.) **(Spa)**

[Ebola virus infection (editorial)] Roca B, et al. **Med Clin (Barc)** 1996 Sep 7;107(7):255–6 **(Spa)**

COMPLICATIONS

A novel hypothesis to explain the hemorrhagic and connective tissue manifestations of Ebola virus infection. Tilson MD, et al. **Clin Immunol Immunopathol** 1996 Dec; 81(3):303–6

DIAGNOSIS

Reemergence of Ebola virus in Africa [editorial] Sanchez A, et al. **Emerg Infect Dis** 1995 Jul–Sep;1(3):96–7

Identification of the Ebola virus in Gabon in 1994 [letter] Amblard J, et al. **Lancet** 1997 Jan 18;349(9046):181–2

[False–positive reactions in laboratory diagnosis of Lassa, Marburg, and Ebola viral hemorrhagic fevers and AIDS] Vladyko AS, et al. **Vopr Virusol** 1997 Mar–Apr;42(2):66–70 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Outbreak of Ebola haemorrhagic fever in Gabon. **Commun Dis Rep CDR Wkly** 1996 Mar 1;6(9):75, 78

Isolation and phylogenetic characterization of Ebola viruses causing different outbreaks in Gabon. Georges–Courbot MC, et al. **Emerg Infect Dis** 1997 Jan–Mar;3(1):59–62

Reemergence of Ebola virus in Africa [editorial] Sanchez A, et al. **Emerg Infect Dis** 1995 Jul–Sep;1(3):96–7

Perspectives in fatal epidemics. Butler JC, et al. **Infect Dis Clin North Am** 1996 Dec;10(4):917–37 (75 ref.)

Identification of the Ebola virus in Gabon in 1994 [letter] Amblard J, et al. **Lancet** 1997 Jan 18;349(9046):181–2

Konzo and Ebola in Bandundu region of Zaire [letter] Banea M, et al. **Lancet** 1997 Mar 1;349(9052):621

Isolation and partial molecular characterisation of a strain of Ebola virus during a recent epidemic of viral haemorrhagic fever in Gabon [letter] Georges–Courbot MC, et al. **Lancet** 1997 Jan 18;349(9046):181

Ebola hemorrhagic fever: why were children spared? Dowell SF. **Pediatr Infect Dis J** 1996 Mar;15(3):189–91

Ebola haemorrhagic fever. A summary of the outbreak in Gabon. **Wkly Epidemiol Rec** 1997 Jan 3–10;72(1–2):7–8 **(Eng, Fre)**

Ebola haemorrhagic fever. **Wkly Epidemiol Rec** 1996 Oct 18;71(42):320 **(Eng, Fre)**

[Ebola virus epidemic (editorial)] Vapalahti O, et al. **Duodecim** 1995;111(14):1277–9 **(Fin)**

PATHOLOGY

Pathology of experimental Ebola virus infection in African green monkeys. Involvement of fibroblastic reticular cells. Davis KJ, et al. **Arch Pathol Lab Med** 1997 Aug; 121(8):805–19

[Ultrastructural stereological analysis of monkey lungs during experimental Ebola fever] Kolesnikova LV, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):205–8 **(Rus)**

PHYSIOPATHOLOGY

The Thucydides syndrome: Ebola déjà vu? (or Ebola reemergent?) [letter] Olson PE, et al. **Emerg Infect Dis** 1996 Apr–Jun;2(2):155–6

PREVENTION & CONTROL

[Developing principles for emergency prevention and treatment of Ebola fever] Markin VA, et al. **Vopr Virusol** 1997 Jan–Feb;42(1):31–4 (Eng. Abstr.) **(Rus)**

THERAPY

[Developing principles for emergency prevention and treatment of Ebola fever] Markin VA, et al. **Vopr Virusol** 1997 Jan–Feb;42(1):31–4 (Eng. Abstr.) **(Rus)**

TRANSMISSION

Experimental inoculation of plants and animals with Ebola virus. Swanepoel R, et al. **Emerg Infect Dis** 1996 Oct–Dec; 2(4):321–5

VIROLOGY

Marburg and Ebola viruses. Feldmann H, et al. **Adv Virus Res** 1996;47:1–52 (169 ref.)

Isolation and phylogenetic characterization of Ebola viruses causing different outbreaks in Gabon. Georges–Courbot MC, et al. **Emerg Infect Dis** 1997 Jan–Mar;3(1):59–62

Experimental inoculation of plants and animals with Ebola virus. Swanepoel R, et al. **Emerg Infect Dis** 1996 Oct–Dec; 2(4):321–5

Isolation and partial molecular characterisation of a strain of Ebola virus during a recent epidemic of viral haemorrhagic fever in Gabon [letter] Georges–Courbot MC, et al. **Lancet** 1997 Jan 18;349(9046):181

HEMORRHAGIC FEVER, EPIDEMIC see **HEMORRHAGIC FEVER WITH RENAL SYNDROME**

HEMORRHAGIC FEVER, KOREAN see **HEMORRHAGIC FEVER WITH RENAL SYNDROME**

HEMORRHAGIC FEVER RENAL SYNDROME VIRUS see **HANTAAN VIRUS**

HEMORRHAGIC FEVER VIRUS, ARGENTINIAN see **JUNIN VIRUS**

HEMORRHAGIC FEVER VIRUS, BOLIVIAN see **TACARIBE COMPLEX VIRUSES**

HEMORRHAGIC FEVER VIRUS, CRIMEAN see **HEMORRHAGIC FEVER VIRUS, CRIMEAN–CONGO**

HEMORRHAGIC FEVER VIRUS, CRIMEAN–CONGO

ISOLATION & PURIFICATION

Immunohistochemical and in situ localization of Crimean–Congo hemorrhagic fever (CCHF) virus in human tissues and implications for CCHF pathogenesis. Burt FJ, et al. **Arch Pathol Lab Med** 1997 Aug; 121(8):839–46

Transmission of Crimean–Congo hemorrhagic fever virus by Hyalomma impeltatum (Acari:Ixodidae) after experimental infection. Dohm DJ, et al. **J Med Entomol** 1996 Sep; 33(5):848–51

HEMORRHAGIC FEVER VIRUS, EPIDEMIC see **HANTAAN VIRUS**

HEMORRHAGIC FEVER VIRUS, KOREAN see **HANTAAN VIRUS**

HEMORRHAGIC FEVER VIRUS, OMSK see **ENCEPHALITIS VIRUSES, TICK–BORNE**

HEMORRHAGIC FEVER VIRUSES, AMERICAN see **TACARIBE COMPLEX VIRUSES**

HEMORRHAGIC FEVER WITH RENAL SYNDROME

[Progresses in infections diseases in China, 1996] Wang Q. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):895–6 (0 ref.) **(Chi)**

[An imported case of hemorrhagic fever with renal syndrome] Pejčoch M, et al. **Epidemiol Mikrobiol Imunol** 1996 Sep;45(3):127–9 (Eng. Abstr.) **(Cze)**

[Hantavirus infection] Arikawa J. **Uirusu** 1996 Dec; 46(2):119–29 (76 ref.) **(Jpn)**

[Hantavirus disease] Hinrichsen SL, et al. **Rev Assoc Med Bras** 1996 Oct–Dec;42(4):237–41 (43 ref.) **(Por)**

BLOOD

Increased plasma levels of soluble CD23 in haemorrhagic fever with renal syndrome; relation to virus–specific IgE. Alexeyev OA, et al. **Clin Exp Immunol** 1997 Aug; 109(2):351–5

[Serotonin concentration in the blood of patients with hemorrhagic fever with renal syndrome] Sidel'nikov IuN, et al. **Klin Lab Diagn** 1996 Sep–Oct;(5):21–2 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Ocular characteristics in nephropathia epidemica or Puumala virus infection. Kontkanen M, et al. **Acta Ophthalmol Scand** 1996 Dec;74(6):621–5

Delayed onset of diuresis in a patient with acute renal failure due to hemorrhagic fever with renal syndrome who also developed anterior hypopituitarism. Park JE, et al. **Clin Nephrol** 1996 Aug;46(2):141–5

Haemorrhagic fever with renal syndrome and chronic renal failure [letter] Shutov A, et al. **Lancet** 1996 Dec 7; 348(9041):1594–5

Acute renal failure due to hemorrhagic fever with renal syndrome. Bren AF, et al. **Ren Fail** 1996 Jul;18(4):635–8

HEMORRHAGIC FEVER WITH RENAL SYNDROME

Pathogenetic and clinical aspects of the renal involvement in hemorrhagic fever with renal syndrome. Settergren B, et al. **Ren Fail** 1997 Jan;19(1):1–14 (108 ref.)

[Abdominal pains and ascite in hemorrhagic fever with renal syndrome (letter)] Tiberghien F, et al. **Presse Med** 1997 May 24;26(17):809 **(Fre)**

DIAGNOSIS

Systemic infection resembling hemorrhagic fever with the renal syndrome caused by adenovirus type 11. Usami T, et al. **J Urol** 1997 Feb;157(2):617–8

Playing in a scrapyard and acute renal failure. Watson AR, et al. **Lancet** 1997 May 17;349(9063):1446

A severe case of hemorrhagic fever with renal syndrome in Singapore. Chan KP, et al.
Southeast Asian J Trop Med Public Health 1996 Jun; 27(2):408–10

[Hematemesis disclosing hemorrhagic fever with renal syndrome] Cleau D, et al. **Gastroenterol Clin Biol** 1996; 20(12):1129–30 (Eng. Abstr.) **(Fre)**

[Hantavirus–induced acute renal failure] Zeier M, et al.
Internist (Berl) 1996 Nov;37(11):1092–5 (17 ref.) **(Ger)**

[Experience in using regression analysis for assessing the quality of the diagnosis of hemorrhagic fever with renal syndrome] Malkin AE, et al. **Med Parazitol (Mosk)** 1997 Jan–Mar;(1):37–40 (Eng. Abstr.) **(Rus)**

[The diagnostic importance of determining antibodies in the urine to the virus of hemorrhagic fever with renal syndrome] Shutov AM, et al. **Ter Arkh** 1996;68(11):35–7 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Inhibitory effect of selenite and other antioxidants on complement–mediated tissue injury in patients with epidemic hemorrhagic fever. Hou JC.
Biol Trace Elem Res 1997 Jan;56(1):125–30

[Experimental study on the effect of qing–wen granule on epidemic hemorrhagic fever virus] Guo WF, et al.
Chung Kuo Chung Hsi I Chieh Ho Tsa Chih 1995 Dec; 15(12):735–6 **(Chi)**

[Inactivation of serotonin in patients with hemorrhagic fever with kidney syndrome] Sidel'nikov IuN, et al.
Vopr Med Khim 1996 Oct–Dec;42(4):319–21 (Eng. Abstr.) **(Rus)**

EPIDEMIOLOGY

Hantaviruses: a global disease problem. Schmaljohn C, et al. **Emerg Infect Dis** 1997 Apr–Jun;3(2):95–104 (72 ref.)

Seroepidemiology of Hantaan virus infection in Taiwan. Kao CL, et al. **J Med Virol** 1996 Dec;50(4):309–13

Dobrava hantavirus outbreak in Russia [letter] Lundkvist A, et al. **Lancet** 1997 Sep 13;350(9080):781–2

[The topographic zoning of natural HFRS foci in Russia] Malkin AE, et al. **Med Parazitol (Mosk)** 1996 Apr–Jun; (2):27–32 (Eng. Abstr.) **(Rus)**

[The ecological aspects of the epidemiology of hemorrhagic fever with renal syndrome in the south of the Far East in Russia] Slonova RA, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 May–Jun; (3):19–23 (Eng. Abstr.) **(Rus)**

ETIOLOGY

A comparison of case–crossover and case–control designs in a study of risk factors for hemorrhagic fever with renal syndrome. Dixon KE. **Epidemiology** 1997 May;8(3):243–6

Puumala and Dobrava viruses cause hemorrhagic fever with renal syndrome in Bosnia–Herzegovina: evidence of highly cross–neutralizing antibody responses in early patient sera. Lundkvist A, et al. **J Med Virol** 1997 Sep;53(1):51–9

IMMUNOLOGY

Inhibitory effect of selenite and other antioxidants on complement–mediated tissue injury in patients with epidemic hemorrhagic fever. Hou JC.
Biol Trace Elem Res 1997 Jan;56(1):125–30

Puumala and Dobrava viruses cause hemorrhagic fever with renal syndrome in Bosnia–Herzegovina: evidence of highly cross–neutralizing antibody responses in early patient sera. Lundkvist A, et al. **J Med Virol** 1997 Sep;53(1):51–9

Serum and urine soluble HLA class I antigen concentrations are increased in patients with hemorrhagic fever with renal syndrome. Park CW, et al. **Korean J Intern Med** 1997 Jan; 12(1):52–7

Serum levels of tumor necrosis factor–alpha, interleukin–1, and interleukin–6 in hemorrhagic fever with renal syndrome. Krakauer T, et al. **Viral Immunol** 1995;8(2):75–9

[Immune–mediated tubulointerstitial injury in hemorrhagic fever with renal syndrome] Zheng F, et al.
Chung Hua I Hsueh Tsa Chih 1996 Jun;76(6):411–5 (Eng. Abstr.) **(Chi)**

METABOLISM

[The histamine and serotonin content in the kidneys of patients with hemorrhagic fever with renal syndrome] Sidel'nikov IuN, et al. **Urol Nefrol (Mosk)** 1996 Jul–Aug; (4):19–21 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Magnetic resonance imaging of the kidney in hemorrhagic fever with renal syndrome: its histopathologic correlation. Kim YS, et al. **Nephron** 1997;76(4):477–80

Transmission electron microscopic study of the hemorrhagic spots in patients with epidemic hemorrhagic fever in the early stage. Wang S, et al. **Ultrastruct Pathol** 1997 May–Jun;21(3):281–7

[The neurology and neuromorphology of hemorrhagic fever with renal syndrome] Novikova LB, et al.
Zh Nevropatol Psikhiatr Im S S Korsakova 1996;96(6):19–22 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Intraocular pressure changes in nephropathia epidemica. A prospective study of 37 patients with acute systemic Puumala virus infection. Kontkanen MI, et al.
Ophthalmology 1995 Dec;102(12):1813–7

[The function of the hypophyseal–adrenal and hypophyseal–thyroid systems in patients with hemorrhagic fever with renal syndrome] Iushuk ND, et al. **Ter Arkh** 1996;68(2):63–4 (Eng. Abstr.) **(Rus)**

[The hemodynamic and laboratory biochemical characteristics of the nephropathy in convalescent patients after hemorrhagic fever with renal syndrome] Pimenov LT, et al. **Ter Arkh** 1996;68(6):28–30 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Immune responses to inactivated vaccine in people naturally infected with hantaviruses. Lu Q, et al. **J Med Virol** 1996 Aug;49(4):333–5

THERAPY

[Hemodialysis in the treatment of acute kidney failure in hemorrhagic fever with renal syndrome] Shumov AM, et al. **Ter Arkh** 1996;68(6):31–2 (Eng. Abstr.) **(Rus)**

TRANSMISSION

The role of Leptotrombidium scutellare in the transmission of human diseases. Wu G, et al. **Chin Med J (Engl)** 1996 Sep;109(9):670–3

[Role of Leptotrombidium (L.) scutellare in transmission of human diseases] Wu G, et al.
Chung Hua Yu Fang I Hsueh Tsa Chih 1996 May; 30(3):133–5 (Eng. Abstr.) **(Chi)**

VETERINARY

[The ecological aspects of the epidemiology of hemorrhagic fever with renal syndrome in the south of the Far East in Russia] Slonova RA, et al.
Zh Mikrobiol Epidemiol Immunobiol 1997 May–Jun; (3):19–23 (Eng. Abstr.) **(Rus)**

VIROLOGY

Comments on some new viruses associated with old diseases in China. Zhu J. **Chin Med J (Engl)** 1996 Jan;109(1):5–10 (31 ref.)

A major antigenic domain for the human humoral response to Puumala virus nucleocapsid protein is located at the amino–terminus. Elgh F, et al. **J Virol Methods** 1996 May; 59(1–2):161–72

Dobrava hantavirus outbreak in Russia [letter] Lundkvist A, et al. **Lancet** 1997 Sep 13;350(9080):781–2

Transmission electron microscopic study of the hemorrhagic spots in patients with epidemic hemorrhagic fever in the early stage. Wang S, et al. **Ultrastruct Pathol** 1997 May–Jun;21(3):281–7

HEMORRHAGIC FEVERS, VIRAL

DIAGNOSIS

Leptospirosis presenting as haemorrhagic fever in visitor to Africa [letter] Monsuez JJ, et al. **Lancet** 1997 Jan 25; 349(9047):254–5

[Differential diagnosis of infectious hemorrhagic disease and syndromes] Bogomolov BP. **Klin Med (Mosk)** 1996; 74(9):8–13 **(Rus)**

EPIDEMIOLOGY

Viral hemorrhagic fevers. Lacy MD, et al.
Adv Pediatr Infect Dis 1996;12:21–53 (85 ref.)

Management and control of viral haemorrhagic fevers.
Commun Dis Rep CDR Wkly 1997 Feb 14;7(7):57, 60

Ebola hemorrhagic fever: why were children spared? Dowell SF. **Pediatr Infect Dis J** 1996 Mar;15(3):189–91

ETIOLOGY

Computational genomic analysis of hemorrhagic fever viruses. Viral selenoproteins as a potential factor in pathogenesis. Ramanathan CS, et al.
Biol Trace Elem Res 1997 Jan;56(1):93–106 (46 ref.)

HISTORY

Viral haemorrhagic fevers in ancient Mesopotamia. Coleman M, et al. **Trop Med Int Health** 1997 Jun;2(6):603–6

THERAPY

Management and control of viral haemorrhagic fevers.
Commun Dis Rep CDR Wkly 1997 Feb 14;7(7):57, 60

[Experimental study of the effect of the drug desferal and serum against tumor necrosis factor on the course of the infectious process in arenaviral hemorrhagic fever] Ignat'ev GM, et al. **Antibiot Khimioter** 1996 Feb;41(2):30–4 **(Rus)**

TRANSMISSION

Fatal haemorrhagic fever–like illness associated with wild rodents in Zamora Chinchipe province in Ecuador. Cooper PJ, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct; 90(5):543

VIROLOGY

Computational genomic analysis of hemorrhagic fever viruses. Viral selenoproteins as a potential factor in pathogenesis. Ramanathan CS, et al.
Biol Trace Elem Res 1997 Jan;56(1):93–106 (46 ref.)

HEMORRHAGIC NEPHROSO–NEPHRITIS see **HEMORRHAGIC FEVER WITH RENAL SYNDROME**

HEMORRHAGIC NEPHROSO–NEPHRITIS VIRUS see **HANTAAN VIRUS**

HEMORRHAGIC THROMBOCYTHEMIA see **THROMBOCYTHEMIA, HEMORRHAGIC**

HEMORRHOIDS

Haemorrhoids: a clinical update. Polglase AL.
Med J Aust 1997 Jul 21;167(2):85–8 (21 ref.)

COMPLICATIONS

Association of hemorrhoidal disease with diarrheal disorders: potential pathogenic relationship? Johanson JF.
Dis Colon Rectum 1997 Feb;40(2):215–9; discussion 219–21

DIAGNOSIS

Immunochemical fecal occult blood test is not suitable for diagnosis of hemorrhoids. Nakama H, et al. **Am J Med** 1997 Jun;102(6):551–4

Anorectal disorders. Janicke DM, et al.
Emerg Med Clin North Am 1996 Nov;14(4):757–88 (83 ref.)

DIET THERAPY

Effect of fiber supplements on internal bleeding hemorrhoids. Perez–Miranda M, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1504–7

DRUG THERAPY

Micronized flavonoid therapy in internal hemorrhoids of pregnancy. Buckshee K, et al. **Int J Gynaecol Obstet** 1997 May;57(2):145–51

[Effectiveness and innocuousness of the association of calcium dobesilate, dexamethasone acetate and lidocaine versus prednisolone capronate with dibucaine clorohydrate in the treatment of hemorrhoids– Marsicano LJ, et al.
G E N 1995 Oct–Dec;49(4):296–302 (Eng. Abstr.) **(Spa)**

ETIOLOGY

Prevalence and factors influencing hemorrhoids, anorectal varices, and colopathy in patients with portal hypertension. Misra SP, et al. **Endoscopy** 1996 May;28(4):340–5

New thoughts on the aetiology of haemorrhoids and the development of non–operative methods for their management. Dennison AR, et al. **Minerva Chir** 1996 Apr; 51(4):209–16 (50 ref.)

PATHOLOGY

[A case of death from hemorrhoidal hemorrhaging] Barinov EKh, et al. **Sud Med Ekspert** 1996 Oct–Dec;39(4):49 **(Rus)**

PHYSIOPATHOLOGY

[Hemorrhoids––etiology, symptoms and therapy] Butters M. **Ther Umsch** 1997 Apr;54(4):185–9 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

[The prevention of hemorrhoids in sailors] Kitoraga NF, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):179–81 (Eng. Abstr.) **(Rus)**

SURGERY

Suture haemorrhoidectomy: a day–only alternative. Patel N, et al. **Aust N Z J Surg** 1996 Dec;66(12):830–1

Randomized controlled trial of trimebutine (anal sphincter relaxant) for pain after haemorrhoidectomy. Ho YH, et al. **Br J Surg** 1997 Mar;84(3):377–9

Double Y–V plasty for postsurgical anal stricture. Neelakandan B. **Br J Surg** 1996 Nov;83(11):1599

Wound infiltration with lidocaine prolongs postoperative analgesia after haemorrhoidectomy with spinal anaesthesia. Morisaki H, et al. **Can J Anaesth** 1996 Sep;43(9):914–8

Influence of Parks' anal retractor on anal sphincter pressures. van Tets WF, et al. **Dis Colon Rectum** 1997 Sep; 40(9):1042–5

Resolution of chronic anal fissures after treatment of contiguous internal hemorrhoids with direct current probe.

Machicado GA, et al. **Gastrointest Endosc** 1997 Feb; 45(2):157–62

Solo operated haemorrhoid ligator rectoscope. A report on 200 consecutive bandings. Budding J.
Int J Colorectal Dis 1997;12(1):42–4

[Current anesthesia problems in minor proctological operations] Khinev S, et al. **Khirurgiia (Sofiia)** 1996; 49(6):38–9 (Eng. Abstr.) **(Bul)**

[Liver abscess caused by Streptococcus intermedius, following hemorrhoidectomy] Mohammedi I, et al.
Ann Fr Anesth Reanim 1996;15(7):1090–1 (Eng. Abstr.) **(Fre)**

[Surgical therapy of advanced hemorrhoidal disease—is an ambulatory surgery intervention possible?] Gawenda M, et al. **Chirurg** 1996 Sep;67(9):940–3 (Eng. Abstr.) **(Ger)**

[Optimization of the Barron ligature treatment of 2nd and 3rd-degree hemorrhoids using a therapeutic troika] Förster CF, et al. **Schweiz Rundsch Med Prax** 1996 Nov 12; 85(46):1476–81 (Eng. Abstr.) **(Ger)**

[The surgical treatment of hemorrhoids: diathermocoagulation and traditional technics. A prospective randomized study] Bassi R, et al.
Minerva Chir 1997 Apr;52(4):387–91 (Eng. Abstr.) **(Ita)**

THERAPY

Impotence after sclerotherapy of haemorrhoids: case reports. Bullock N. **BMJ** 1997 Feb 8;314(7078):419

Modern treatments for internal haemorrhoids [editorial] Pfenninger JL. **BMJ** 1997 Apr 26;314(7089):1211–2

Comparison of hemorrhoidal treatments: a meta-analysis. MacRae HM, et al. **Can J Surg** 1997 Feb;40(1):14–7

Anorectal disorders. Janicke DM, et al.
Emerg Med Clin North Am 1996 Nov;14(4):757–88 (83 ref.)

Outpatient treatment of isolated strangulated haemorrhoids with single dose injection sclerotherapy and oral Daflon. Deen KI. **Eur J Surg** 1996 May;162(5):403–5

Rubber band ligation of hemorrhoids. Convenient and economic treatment. Bayer I, et al. **J Clin Gastroenterol** 1996 Jul;23(1):50–2

New thoughts on the aetiology of haemorrhoids and the development of non-operative methods for their management. Dennison AR, et al. **Minerva Chir** 1996 Apr; 51(4):209–16 (50 ref.)

A GP guide to managing piles. Barnes J. **Practitioner** 1997 Mar;241(1572):132, 135–6

[Hemolytic uremic syndrome after hemorrhoid sclerotherapy (letter)] Eugene M, et al. **Rev Med Interne** 1997;18(1):80–1 **(Fre)**

[Hemorrhoids—etiology, symptoms and therapy] Butters M. **Ther Umsch** 1997 Apr;54(4):185–9 (Eng. Abstr.) **(Ger)**

[Rubber band ligation of hemorrhoids. A four-year experience] Basile M, et al. **Minerva Chir** 1996 Dec; 51(12):1067–70 (Eng. Abstr.) **(Ita)**

HEMOSIDERIN

see related
SIDEROSIS

ANALYSIS

Hemosiderin deposition in portal endothelial cells is a histologic marker predicting poor response to interferon-alpha therapy in chronic hepatitis C. Kaji K, et al. **Pathol Int** 1997 Jun;47(6):347–52

Intra-alveolar pulmonary siderophages in sudden infant death: a marker for previous imposed suffocation. Becroft DM, et al. **Pathology** 1997 Feb;29(1):60–3 (19 ref.)

CEREBROSPINAL FLUID

Intracranial aneurysms [letter; comment] Kappos L, et al. **N Engl J Med** 1997 Jun 12;336(24):1758; discussion 1759 . Comment on: N Engl J Med 1997 Jan 2;336(1):28–40.

METABOLISM

Assessment of pulmonary and intrathymic hemosiderin deposition in sudden infant death syndrome. Byard RW, et al. **Pediatr Pathol Lab Med** 1997 Mar–Apr;17(2):275–82

Pulmonary interstitial fibrosis and haemosiderin-laden macrophages: late following heart transplantation. Egan JJ, et al. **Respir Med** 1996 Oct;90(9):547–51

[Hippocampal hemosiderin deposit due to large pituitary adenoma presenting temporal lobe epilepsy—a case report] Hashizume K, et al. **No To Shinkei** 1997 Apr;49(4):366–71 (Eng. Abstr.) **(Jpn)**

HEMOSIDEROSIS

[Hemochromatosis, hemosiderosis] Higaki Y, et al.
Ryoikibetsu Shokogun Shirizu 1996;(15):487–9 (16 ref.) **(Jpn)**

BLOOD

Oxidative stress and antioxidant status in beta-thalassemia major: iron overload and depletion of lipid-soluble antioxidants. Livrea MA, et al. **Blood** 1996 Nov 1; 88(9):3608–14

COMPLICATIONS

Pulmonary abnormalities in a patient with chronic heart disease [clinical conference] Gates J, et al. **Acad Radiol** 1997 May;4(5):398–9

Pulmonary hemosiderosis with hypersensitivity to buckwheat. Agata H, et al.
Ann Allergy Asthma Immunol 1997 Feb;78(2):233–7

Dark ring sign: finding in patients with fungal liver lesions and transfusional hemosiderosis undergoing treatment with antifungal antibiotics. Kelekis NL, et al.
Magn Reson Imaging 1996;14(6):615–8

DIAGNOSIS

Assessment of iron status. Baynes RD. **Clin Biochem** 1996 Jun;29(3):209–15 (35 ref.)

DRUG THERAPY

Long-term treatment of transfusional iron overload with the oral iron chelator deferiprone (L1): a Dutch multicenter trial. Kersten MJ, et al. **Ann Hematol** 1996 Nov; 73(5):247–52

Pharmaceutical analysis of the oral iron chelator deferiprone (DMHP,L1). Lange R, et al. **Pharm World Sci** 1996 Aug; 18(4):142–7

[Comparative evaluation of two models of hemosiderosis for analysis of iron chelators] Minina LT, et al.
Biull Eksp Biol Med 1996 Sep;122(9):359–60 **(Rus)**

EPIDEMIOLOGY

Floods carry potential for toxic mold disease [news] Marwick C. **JAMA** 1997 May 7;277(17):1342

Update: pulmonary hemorrhage/hemosiderosis among infants—Cleveland, Ohio, 1993–1996.
MMWR Morb Mortal Wkly Rep 1997 Jan 17;46(2):33–5

ETIOLOGY

Hemosiderosis in cirrhosis: a study of 447 native livers. Ludwig J, et al. **Gastroenterology** 1997 Mar;112(3):882–8

Role of non-transferrin bound iron in iron overload and liver dysfunction in long term survivors of acute leukaemia and bone marrow transplantation. Harrison P, et al.
J Clin Pathol 1996 Oct;49(10):853–6

IMMUNOLOGY

Release of inflammatory mediators after cow's milk intake in a newborn with idiopathic pulmonary hemosiderosis. Torres MJ, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1120–3

METABOLISM

Hepatic hemosiderosis in non-human primates: quantification of liver iron using different field strengths. Bulte JW, et al. **Magn Reson Med** 1997 Apr;37(4):530–6

VETERINARY

Hepatic hemosiderosis in common marmosets, Callithrix jacchus: effect of diet on incidence and severity. Miller GF, et al. **Lab Anim Sci** 1997 Apr;47(2):138–42

HEMOSORPTION see **HEMOPERFUSION**

HEMOSTASIS

41st Annual meeting of the GTH (Gesellschaft für, Thrombose- und Hämostaseforochung). Vienna, Austria, 22–25 February 1997. Abstracts. **Ann Hematol** 1997;74 Suppl 2:I–IX, A59–154

Preoperative clinical assessment of hemostatic function in patients scheduled for a cardiac operation. Klopfenstein CE. **Ann Thorac Surg** 1996 Dec;62(6):1918–20 (57 ref.)

Association of the fatty acid composition of serum phospholipids with hemostatic factors. Salomaa VV, et al.
Arterioscler Thromb Vasc Biol 1997 May;17(5):809–13

Haemostatic parameters and vascular risk. Juhan-Vague I.
Atherosclerosis 1996 Jul;124 Suppl:S49–55 (63 ref.)

A hemophilia model in zebrafish: analysis of hemostasis. Jagadeeswaran P, et al. **Blood Cells Mol Dis** 1997;23(1):52–7

Haemostatic changes in the pulmonary blood during cardiopulmonary bypass. Cardigan RA, et al.
Blood Coagul Fibrinolysis 1996 Jul;7(5):567–77

Haemostatic factors, atherosclerosis and risk of abdominal aortic aneurysm. Lee AJ, et al.
Blood Coagul Fibrinolysis 1996 Oct;7(7):695–701

Changes in hemostatic parameters in hepatic veno-occlusive disease following bone marrow transplantation. Park YD, et al. **Bone Marrow Transplant** 1997 May;19(9):915–20

Diet and haemostasis: time for nutrition science to get more involved. Vorster HH, et al. **Br J Nutr** 1997 May; 77(5):671–84 (103 ref.)

Hemostatic defects in cancer patients. Kempin SJ.
Cancer Invest 1997;15(1):23–36 (213 ref.)

Activation of the hemostatic mechanism after pharmacological cardioversion of acute nonvalvular atrial fibrillation. Oltrona L, et al. **Circulation** 1997 Apr 15; 95(8):2003–6

Monitoring of hemostasis in cardiac surgical patients: impact of point-of-care testing on blood loss and transfusion outcomes. Despotis GJ, et al. **Clin Chem** 1997 Sep; 43(9):1684–96 (153 ref.)

Xylum CSA: automated system for assessing hemostasis in simulated vascular flow. Li CK, et al. **Clin Chem** 1997 Sep; 43(9):1788–90

Properties and units in the clinical laboratory sciences. V. Properties and units in thrombosis and haemostasis: ISTH-IUPAC-IFCC recommendations 1995. Blombäck M, et al. **Clin Chim Acta** 1996 Feb 28;245(2):S23–8

Hemostatic alterations during continuous venovenous hemofiltration in acute renal failure. Stefanidis I, et al.
Clin Nephrol 1996 Sep;46(3):199–205

Registry of multicenter clinical trials: 14th and 15th report 1992–1993. Bossard N, et al. **Control Clin Trials** 1996 Apr; 17(2):130–75

Hemostasis and thrombosis. **Curr Opin Hematol** 1997 Sep; 4(5):B175–97

Use of antibiotics for expansion of the Merocel packing following endoscopic sinus surgery. Shikani AH.
Ear Nose Throat J 1996 Aug;75(8):524–6, 528

Hemostasis in menstrual endometrium. Christiaens GC.
Eur J Obstet Gynecol Reprod Biol 1996 Dec;70(1):19–20

Activated haemostasis in diabetic vascular complications: a role for tissue factor? [comment] Tschoepe D.
Exp Clin Endocrinol Diabetes 1997;105(4):204–5. Comment on: Exp Clin Endocrinol Diabetes 1997 ;105(4):206–12.

Hemostasis parameters during ovarian stimulation for in vitro fertilization: results of a prospective study. Biron C, et al.
Fertil Steril 1997 Jan;67(1):104–9

The role of triphasic levonorgestrel in oral contraception: a review of metabolic and hemostatic effects. Lachnit-Fixson U. **Gynecol Endocrinol** 1996 Jun; 10(3):207–18 (48 ref.)

Natural and acquired inhibitors of hemostasis in selected symptomatic outpatients with venous thromboembolic disease. Bazzan M, et al. **Haematologica** 1997 Jul–Aug; 82(4):420–2

Hemostasis during pregnancy and puerperium. Hellgren M.
Haemostasis 1996 Oct;26 Suppl 4:244–7 (11 ref.)

Prediction of the transfusion effect of platelet concentrates as measured by a model of primary hemostasis ex vivo. Kratzer MA, et al. **Haemostasis** 1997 Mar–Apr; 27(2):99–104

Ultrasonographic intra-abdominal depth and its relation to haemostatic factors in healthy males. Targher G, et al.
Int J Obes Relat Metab Disord 1996 Sep;20(9):882–5

'Hemostatic pause' in pediatric tonsillectomy? Lee WC, et al. **Int J Pediatr Otorhinolaryngol** 1996 Sep;37(1):75–8

Hyperlipidemia and hemostatic system. Morishita E, et al.
J Atheroscler Thromb 1995;2 Suppl 1:S36–40

von Willebrand factor [published erratum appears in J Clin Invest 1997 Jul 1;100(1):237] Ruggeri ZM. **J Clin Invest** 1997 Feb 15;99(4):559–64 (38 ref.)

Haemostatic variables in phenylketonuric children under dietary treatment. Schulpis KH, et al.
J Inherit Metab Dis 1996;19(5):603–9

Impaired haemostatic kinetics and endothelial function in Behçet's disease. Haznedaroglu IC, et al. **J Intern Med** 1996 Oct;240(4):181–7

Serial changes of hemostasis in aneurysmal subarachnoid hemorrhage with special reference to delayed ischemic neurological deficits. Fujii Y, et al. **J Neurosurg** 1997 Apr; 86(4):594–602

Maternal and cord blood hemostasis at delivery. Schneider DM, et al. **J Perinat Med** 1997;25(1):55–61

Characteristics of vasospastic angina with exercised-induced ischemia—analysis of parameters of hemostasis and fibrinolysis. Sakata K, et al. **Jpn Circ J** 1996 May; 60(5):277–84

Haemodialysis without anticoagulant: haemostasis parameters, fibrinogen kinetic, and dialysis efficiency. Romão JE Jr, et al. **Nephrol Dial Transplant** 1997 Jan; 12(1):106–10

Haemostatic changes in patients with deep vein thrombosis. Trifiletti A, et al. **Panminerva Med** 1997 Mar;39(1):21–3

Comprehensive study on platelet function, hemostasis, fibrinolysis, peripheral serotonergic system and serum lipids in nephrotic syndrome. Małyszko J, et al.
Pol J Pharmacol 1996 Mar–Apr;48(2):191–5

The management of abnormalities of hemostasis in acute liver failure. Pereira SP, et al. **Semin Liver Dis** 1996 Nov; 16(4):403–14 (193 ref.)

XVI Congress of the International Society on Thrombosis and Haemostasis. Florence, Italy, June 6–12, 1997. Abstracts. **Thromb Haemost** 1997 Jun;Suppl:1–843

1997 State of the Art. Proceedings of the XVIth Congress of the International Society on Thrombosis and Haemostasis. **Thromb Haemost** 1997 Jul;78(1):1–784

Prediction of changes in levels of haemostatic variables during natural menstrual cycle and ovarian hyperstimulation. Andersson O, et al. **Thromb Haemost** 1997 May;77(5):901–4

Haemostatic parameters and lifestyle factors in elderly men in Italy and The Netherlands. Bijnen FC, et al.
Thromb Haemost 1996 Sep;76(3):411–6

Plasminogen: an important hemostatic parameter in septic patients. Duboscq C, et al. **Thromb Haemost** 1997 Jun; 77(6):1090–5

Haemostatic properties of human pulmonary and cerebral microvascular endothelial cells. Grau GE, et al.
Thromb Haemost 1997 Mar;77(3):585–90

Respective evaluation of the prevalence of haemostasis abnormalities in unexplained primary early recurrent miscarriages. The Nimes Obstetricians and Haematologists (NOHA) Study. Gris JC, et al. **Thromb Haemost** 1997 Jun; 77(6):1096–103

Hemostatic disorder of uremia: the platelet defect, main

determinant of the prolonged bleeding time, is correlated with indices of activation of coagulation and fibrinolysis. Mezzano D, et al. **Thromb Haemost** 1996 Sep;76(3):312–21

Increased activation of the haemostatic system in men at high risk of fatal coronary heart disease. Miller GJ, et al. **Thromb Haemost** 1996 May;75(5):767–71

Haemostasis in fish—an evolutionary perspective. Rowley AF, et al. **Thromb Haemost** 1997 Feb;77(2):227–33 (61 ref.)

Hemostatic markers in preterm labor [letter] Haznedaroğlu S, et al. **Thromb Res** 1997 Apr 1;86(1):89–90

Hemostasis, platelet function and serotonin in acute and chronic renal failure. Malyszko J, et al. **Thromb Res** 1996 Sep 1;83(5):351–61

Angiodysplasia, haemostasis and capillaries. A hypothesis [letter] O'Brien JR. **Thromb Res** 1996 Dec 1;84(5):385–7

A case of myocardial infarction complicating pregnancy--a role for prostacyclin synthesis stimulating plasma factor and lipoprotein (a)? Ulm MR, et al. **Thromb Res** 1996 Aug 1;83(3):237–42

A new method for quantitative analysis of whole blood platelet interaction with extracellular matrix under flow conditions. Varon D, et al. **Thromb Res** 1997 Feb 15; 85(4):283–94

The thrombocytopenic rabbit bleeding time model to evaluate the in vivo hemostatic efficacy of platelets and platelet substitutes. Blajchman MA, et al. **Transfus Med Rev** 1997 Apr;11(2):95–105 (51 ref.)

Efficacy of hemostatic agents in improving surgical hemostasis. Green D, et al. **Transfus Med Rev** 1996 Jul; 10(3):171–82 (142 ref.)

Hemostasis in patients with severe von Willebrand disease improves after normal platelet transfusion and normalizes with further correction of the plasma defect. Castillo R, et al. **Transfusion** 1997 Aug;37(8):785–90

[Effect of age on hemostasis and plasma level of TXB2 and 6-keto-PGF1 alpha] Liang-min LD, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1995 Nov; 15(11):652–4 (Eng. Abstr.) **(Chi)**

[Hemostasis anomalies and human immunodeficiency virus infection] Fezoui H, et al. **Rev Med Interne** 1996; 17(9):738–45 (62 ref.) (Eng. Abstr.) **(Fre)**

[Hemostasis anomalies and human immunodeficiency virus infection: what significance? (editorial)] Fuzibet JG. **Rev Med Interne** 1996;17(9):725–6 **(Fre)**

[Effect of postoperative retransfusion of autologous blood products on hemostasis in heart surgery] Walpoth-Aslan BN, et al. **Schweiz Med Wochenschr** 1996 Nov 9; 126(45):1940–3 (Eng. Abstr.) **(Ger)**

[The determination of hemostatic defects in aeronautical personnel] Blundo G, et al. **Riv Med Aeronaut Spaz** 1975 Oct–Dec;38(4):427–32 (Eng. Abstr.) **(Ita)**

[A clinical evaluation of the Hepcon/HMS: a new device of monitoring hemostasis management during cardiopulmonary bypass] Yamanishi H, et al. **Kyobu Geka** 1997 Jun;50(6):459–62 (Eng. Abstr.) **(Jpn)**

[Study of hemostatic molecular marker] Wada H, et al. **Rinsho Byori** 1997 Apr;45(4):310–4 (Eng. Abstr.) **(Jpn)**

[Successful induction of immune tolerance and novel hemostatic effects in a hemophilia A with high-responder inhibitor by regular infusions of factor VIII] Shima M, et al. **Rinsho Ketsueki** 1996 Nov;37(11):1303–8 (Eng. Abstr.) **(Jpn)**

[Thrombocytic hemostasis in patients with severe craniocerebral trauma] Churliaev IuA, et al. **Anesteziol Reanimatol** 1996 Sep–Oct;(5):14–7 (Eng. Abstr.) **(Rus)**

[Hypoxia and vascular-platelet hemostasis in patients with acute coronary insufficiency] Shvarts IuG, et al. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):18–20 (Eng. Abstr.) **(Rus)**

[Hemostatic changes in middle-aged and elderly patients with acute arterial obstruction] Karpenko LN. **Klin Khir** 1996;(7):16–9 **(Rus)**

[Clinico-hemostatic characteristics of serum disease in toxic forms of diphtheria] Fokina EG, et al. **Ter Arkh** 1995; 67(12):49–53 (Eng. Abstr.) **(Rus)**

[The therapeutic correction of disorders in thrombocyte-vascular hemostasis and of changes in the rheological properties of the blood in patients with arterial hypertension] Zadionchenko VS, et al. **Ter Arkh** 1996; 68(5):63–7 (Eng. Abstr.) **(Rus)**

[Diagnosis of hemostasis disorders in young children using turbidimetry] Lezhen TI, et al. **Ukr Biokhim Zh** 1996 Nov–Dec;68(6):104–8 (Eng. Abstr.) **(Rus)**

[Disorders in the hemostatic system in the Poland syndrome] Fedorov IuIu, et al. **Vestn Khir Im I I Grek** 1997; 156(3):78–9 **(Rus)**

[The megakaryocyte-thrombocyte system] Ermolaeva TA, et al. **Vestn Ross Akad Med Nauk** 1996;(12):34–43 (56 ref.) (Eng. Abstr.) **(Rus)**

[Changes of Willebrand factor level in blood plasma of cancer patients and its role in hemostatic disturbances] Danilova AB, et al. **Vopr Onkol** 1996;42(5):26–30 (Eng. Abstr.) **(Rus)**

[Change in biochemical and hemostatic indicators in guinea pigs upon administering Ebola virus preparations] Chepurnov AA, et al. **Vopr Virusol** 1997 Jul–Aug; 42(4):171–5 (Eng. Abstr.) **(Rus)**

[Hemostasis in patients with diabetes mellitus. II. Tissue factor and the extrinsic blood coagulation inhibitor] Galajda P, et al. **Vnitr Lek** 1996 Nov;42(11):776–8 (Eng. Abstr.) **(Slo)**

[Hemostasis in patients with diabetes mellitus. I. Markers of endothelial dysfunction] Galajda P, et al. **Vnitr Lek** 1996 Oct;42(10):676–9 (Eng. Abstr.) **(Slo)**

[Hemostatic disorders in the pathogenesis of diabetic angiopathy] Henyk SM, et al. **Lik Sprava** 1996 Jan–Feb; (1–2):42–5 (33 ref.) **(Ukr)**

[The hemostatic system and thrombohemorrhagic complications during the hemosorption treatment of patients with chronic glomerulonephritis with nephrotic syndrome] Kolesnyk MO, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):78–80 (Eng. Abstr.) **(Ukr)**

DRUG EFFECTS

Influence of captopril on some haemostatic parameters in rats with ongoing process of venous thrombosis. Pawlak R, et al. **Acta Physiol Hung** 1996;84(3):327–8

Effect of endothelin-1 on some hemostatic parameters in normotensive rats. Pietraszek M, et al. **Acta Physiol Hung** 1996;84(3):329–30

Alpha-linolenic acid and marine long-chain n-3 fatty acids differ only slightly in their effects on hemostatic factors in healthy subjects. Freese R, et al. **Am J Clin Nutr** 1997 Sep;66(3):591–8

Antifibrinolytic drugs and perioperative hemostasis. Slaughter TF, et al. **Am J Hematol** 1997 Sep;56(1):32–6 (56 ref.)

Increased bleeding time after magnesium sulfate infusion. Kynczl-Leisure M, et al. **Am J Obstet Gynecol** 1996 Nov; 175(5):1293–4

Hemostasis in newborns of smoking and nonsmoking mothers. Mercelina-Roumans PE, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):662–6

Oncotic, hemodilutional, and hemostatic effects of isotonic saline and hydroxyethyl starch solutions in clinically normal ponies. Jones PA, et al. **Am J Vet Res** 1997 May; 58(5):541–8

Effects of indobufen and pentoxifylline on walking capacity and hemostasis in patients with intermittent claudication: results of six months of treatment. Panchenko E, et al. **Angiology** 1997 Mar;48(3):247–54

"Low-dose" aprotinin modifies hemostasis but not proinflammatory cytokine release. Ashraf S, et al. **Ann Thorac Surg** 1997 Jan;63(1):68–73

Intraoperative hetastarch infusion impairs hemostasis after cardiac operations. Cope JT, et al. **Ann Thorac Surg** 1997 Jan;63(1):78–82; discussion 82–3

Hemostatic changes after thrombolytic therapy with saruplase (unglycosylated single-chain urokinase-type plasminogen activator) and urokinase (two-chain urokinase-type plasminogen activator). Michels HR, et al. **Blood Coagul Fibrinolysis** 1996 Nov;7(8):766–71

Hemostatic and fibrinolytic response to desmopressin in uremic patients. Chen KS, et al. **Blood Purif** 1997; 15(2):84–91

Activated protein C inhibits thrombus formation in a system with flowing blood. Lozano M, et al. **Br J Haematol** 1996 Oct;95(1):179–83

The effects of reformulated 2-rod Norplant implant on hemostasis after three years. Viegas OA, et al. **Contraception** 1996 Oct;54(4):219–28

A comparative study of the effects of the hemostatic system of two monophasic gestodene oral contraceptives containing 20 micrograms and 30 micrograms ethinylestradiol. Winkler UH, et al. **Contraception** 1996 Feb; 53(2):75–84

Randomized placebo-controlled study of the effects of simvastatin on haemostatic variables, lipoproteins and free fatty acids. The Oxford Cholesterol Study Group. Mitropoulos KA, et al. **Eur Heart J** 1997 Feb;18(2):235–41

Hemostatic effects of three colloid plasma substitutes for priming solution in cardiopulmonary bypass. Tigchelaar I, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):626–32

T-686, a novel inhibitor of plasminogen activator inhibitor-1, inhibits thrombosis without impairment of hemostasis in rats. Ohtani A, et al. **Eur J Pharmacol** 1997 Jul 9; 330(2–3):151–6

Ethinylestradiol 20 versus 30 micrograms combined with 150 micrograms desogestrel: a large comparative study of the effects of two low-dose oral contraceptives on the hemostatic system. Winkler UH, et al. **Gynecol Endocrinol** 1996 Aug;10(4):265–71

Dosing and monitoring NovoSeven treatment. Hedner U. **Haemostasis** 1996;26 Suppl 1:102–8

Influence of low molecular weight hydroxyethyl starch (HES 40/0.5–0.55) on hemostasis and hemorheology. Treib J, et al. **Haemostasis** 1996 Sep–Oct;26(5):258–65

Effects of medium-term antihypertensive therapy on haemostatic parameters in patients with essential hypertension. Trifiletti A, et al. **Haemostasis** 1997 Jan–Feb; 27(1):35–8

Thrombelastgram as a hemostatic monitor during recombinant factor VIIa treatment in hemophilia A patients with inhibitor to factor VIII. Yoshioka A, et al. **Haemostasis** 1996;26 Suppl 1:139–42

Effects of intracoronary diltiazem on certain hemostatic parameters during acute myocardial infarction in swine. Serebruany VL, et al. **Int J Cardiol** 1997 Aug 29;61(1):21–9

Ticlopidine and aspirin pretreatment reduces coagulation and platelet activation during coronary dilation procedures. Gregorini L, et al. **J Am Coll Cardiol** 1997 Jan;29(1):13–20

Hematological aspects of biocompatibility--review article. Banerjee R, et al. **J Biomater Appl** 1997 Jul;12(1):57–76 (46 ref.)

Antiplatelet and antithrombotic efficacy of SR 121787, a nonpeptide orally active GP IIb/IIIa antagonist, in rabbits: comparison with clopidogrel and aspirin. Hoffmann P, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):360–6

Hemostatic changes after dietary coenzyme Q10 supplementation in swine. Serebruany VL, et al. **J Cardiovasc Pharmacol** 1996 Aug;28(2):175–81

Hemostatic changes after early versus late intracoronary magnesium during acute myocardial infarction in swine. Serebruany VL, et al. **J Cardiovasc Pharmacol** 1996 Dec; 28(6):817–23

Pharmacodynamic models to evaluate antithrombotics in clinical pharmacology. Müller TH. **J Clin Pharmacol** 1997 Jan;37(1 Suppl):49S–58S (77 ref.)

Repeated fasting and refeeding with 20:5, n-3 eicosapentaenoic acid (EPA): a novel approach for rapid fatty acid exchange and its effect on blood pressure, plasma lipids and hemostasis. Yosefy C, et al. **J Hum Hypertens** 1996 Sep;10 Suppl 3:S135–9

Effects of progestogens on haemostasis. Kuhl H. **Maturitas** 1996 May;24(1–2):1–19 (141 ref.)

Transdermal estrogen replacement therapy: beneficial effects on hemostatic risk factors for cardiovascular disease. Lindoff C, et al. **Maturitas** 1996 May;24(1–2):43–50

Hormone replacement therapy and hemostasis: principles of a complex interaction. Winkler UH. **Maturitas** 1996 Jul; 24(3):131–45 (104 ref.)

Effects of androgens on haemostasis. Winkler UH. **Maturitas** 1996 Jul;24(3):147–55 (61 ref.)

Effects of heparin treatment on hemostatic abnormalities in obese non-insulin-dependent diabetic patients. Avellone G, et al. **Metabolism** 1997 Aug;46(8):930–4

Hemostasis-altering drugs and central neural block. A survey of anesthetic practice in Scotland and the United Kingdom. Millar FA, et al. **Reg Anesth** 1996 Nov–Dec;21(6):529–33

Desmopressin, hemostasis, and vascular surgery. Clagett GP. **Semin Vasc Surg** 1996 Dec;9(4):340–6 (30 ref.)

The effect of progesterone on the haemostatic mechanism. Blombäck M, et al. **Thromb Haemost** 1997 Jan;77(1):105–8

Effect of oral contraceptives on haemostasis variables. Kluft C, et al. **Thromb Haemost** 1997 Jul;78(1):315–26 (141 ref.)

Inhibition rather than enhancement of hemostatic system activation during initiation of oral anticoagulant treatment. Kyrle PA, et al. **Thromb Haemost** 1997 Apr;77(4):685–9

Hormone replacement therapy and haemostatic function. Meade TW. **Thromb Haemost** 1997 Jul;78(1):765–9 (19 ref.)

Long-term follow-up of hemostatic molecular markers during remission induction therapy with all-trans retinoic acid for acute promyelocytic leukemia. Keio Hematology-Oncology Cooperative Study Group (KHOCS). Watanabe R, et al. **Thromb Haemost** 1997 Apr; 77(4):641–5

Comparison of the effects of different low molecular weight heparins on the hemostatic system activation in vivo in man. Wolzt M, et al. **Thromb Haemost** 1997 Aug; 78(2):876–9

Changes in lipidic and hemostatic parameters induced by tibolone treatment. Rosati D, et al. **Thromb Res** 1997 Feb 1;85(3):273–8

Platelet functions and haemostasis parameters in pigs: absence of side effects of a procedure of general anaesthesia. Roussi J, et al. **Thromb Res** 1996 Feb 1;81(3):297–305

Effect of Habu (Trimeresurus flavoviridis) antivenom on changes of hemostatic parameters following administration of crude venom from T. flavoviridis in rabbits. Yamashita S, et al. **Toxicon** 1996 Aug;34(8):893–902

[Oral contraception and menopausal hormone replacement: effects on hemostasis and risk of venous thromboembolism] Bounameaux H, et al. **Schweiz Med Wochenschr** 1996 Oct 12;126(41):1756–63 (Eng. Abstr.) **(Fre)**

[Microcirculation and hemostasis in inflammatory processes. Modulation by administration of physiologic protease inhibitors as a therapeutic approach] Leithäuser B, et al. **Med Klin** 1997 Jul 15;92(7):426–31 (40 ref.) (Eng. Abstr.) **(Ger)**

[Effect of non-ionic contrast agents used in coronary angiography on hemostasis] Górski J, et al. **Pol Tyg Lek** 1996 Mar;51(10–13):184–6 (30 ref.) **(Pol)**

[Effect of treating glomerulonephritis with omega 3 fatty acids for selected parameters of hemostasis, blood platelet function and lipid metabolism] Małyszko JS, et al. **Przegl Lek** 1996;53(8):600–3 (Eng. Abstr.) **(Pol)**

[Modeling disorders of platelet hemostasis and correction of them with an analog of vasopressin DGAVP] Golubeva MG, et al. **Dokl Akad Nauk** 1996 May;348(2):270–1 **(Rus)**

[The effect of modified forms of vasopressin on the rat hemostatic system] Grigor'eva ME, et al. **Izv Akad Nauk Ser Biol** 1997 Mar–Apr;(2):238–41 (Eng. Abstr.) **(Rus)**

[Changes in the functional status of the hemostatic system with the administration of heparin combined with aspirin to animals with experimental diabetes] Liapina LA, et al. **Izv Akad Nauk Ser Biol** 1996 Sep–Oct;(5):624–7 (Eng. Abstr.) **(Rus)**

[A method of assessing retraction of a blood clot and spontaneous fibrinolysis and use of this method in evaluating the effects on infusion media on hemostasis] Sukhorukov VP, et al. **Klin Lab Diagn** 1996 Jul–Aug; (4):20–2 (Eng. Abstr.) **(Rus)**

[Effect of oxygen aeroions on hemostasis and development

of arteriosclerosis in hypodynamia] Inchina VI, et al. **Patol Fiziol Eksp Ter** 1996 Apr-Jun;(2):32-5 (Eng. Abstr.) **(Rus)**

[The effect of a new hypolipemic preparation fluvastatin (Lescol) on rheological indices and hemostatic parameters] Filippova VG, et al. **Ter Arkh** 1997;69(4):43-5 (Eng. Abstr.) **(Rus)**

[The effect of prostatilen on the hemostatic indices in chronic prostatitis (a clinical and experimental study)] al-Shukri SKh, et al. **Urol Nefrol (Mosk)** 1997 May-Jun;(3):38-41 (Eng. Abstr.) **(Rus)**

[The modulation of hemostatic reactions in vitro and in vivo by representatives of regulatory peptide families] Ashmarin IP, et al. **Vestn Ross Akad Med Nauk** 1996;(6):50-7 (Eng. Abstr.) **(Rus)**

[Effect of docanol on the status of hemostasis and fibrinolysis systems, as well as lipid spectrum in patients with ischemic heart disease depending on the initial level of fibrinolytic activity] Liutova LV, et al. **Vopr Med Khim** 1996 Jan-Mar; 42(1):64-70 (Eng. Abstr.) **(Rus)**

[The use of correctors of the lipid peroxidation and hemostasis processes in the combined treatment of patients with cerebrovascular disorders] Vesel'skiĭ ISh, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(2):51-4 **(Rus)**

[The effect of mercazolyl on the activity of the main hemostatic blood systems under the action of immobilization stress] Lunina NV, et al. **Lik Sprava** 1995 Sep-Dec;(9-12):160-3 (Eng. Abstr.) **(Ukr)**

GENETICS

Gene-environment interaction in the determination of levels of haemostatic variables involved in thrombosis and fibrinolysis. Humphries SE, et al. **Thromb Haemost** 1997 Jul;78(1):457-61 (35 ref.)

IMMUNOLOGY

Hemostatic abnormalities and the severity of illness in patients at the onset of clinically defined sepsis. Possible indication of the degree of endothelial cell activation? Leithäuser B, et al. **Intensive Care Med** 1996 Jul;22(7):631-6

Clotting and immune defense in Limulidae. Muta T, et al. **Prog Mol Subcell Biol** 1996;15:154-89 (155 ref.)

Blood clotting in invertebrates. Srimal S. **Prog Mol Subcell Biol** 1996;15:88-100 (106 ref.)

Hemostatic balance during the acute inflammatory reaction. (II). With special reference to plasma protein C. Plesca L, et al. **Rom J Physiol** 1995 Jan-Dec;32(1-4):35-8

Hemostatic balance during the acute inflammatory reaction; with special reference to antithrombin III. Pleşca LA, et al. **Rom J Physiol** 1995 Jan-Dec;32(1-4):71-6

PHYSIOLOGY

Adhesive interactions in hemostasis. Rosenfeld SJ, et al. **Acta Haematol** 1997;97(1-2):118-25 (111 ref.)

Maternal volume homeostasis in early pregnancy in relation to fetal growth restriction [letter; comment] van Oppen AC, et al. **Acta Obstet Gynecol Scand** 1996 Sep;75(8):779-80 . Comment on: Acta Obstet Gynecol Scand 1995 Oct;74(9):693-7.

Dietary factors in thrombosis and hemostasis: summary and conclusions. FitzGerald GA, et al. **Am J Clin Nutr** 1997 May;65(5 Suppl):1699S-1701S (34 ref.)

Fatty acids in animals: thrombosis and hemostasis. Hoak JC. **Am J Clin Nutr** 1997 May;65(5 Suppl):1683S-1686S (16 ref.)

Dietary fatty acids in human thrombosis and hemostasis. Knapp HR. **Am J Clin Nutr** 1997 May;65(5 Suppl):1687S-1698S (221 ref.)

Epidemiology of thrombotic-hemostatic factors and their associations with cardiovascular disease. Pearson TA, et al. **Am J Clin Nutr** 1997 May;65(5 Suppl):1674S-1682S (104 ref.)

Hemostatic variables and ischemic cardiovascular disease: do we need a concerted effort for more profitable future clinical investigations? Di Minno G, et al. **Cardiovasc Drugs Ther** 1997 Jan;10(6):743-9 (60 ref.)

Simply read: erythrocytes modulate platelet function. Should we rethink the way we give aspirin? [editorial; comment] Rocca B, et al. **Circulation** 1997 Jan 7;95(1):11-3. Comment on: Circulation 1997 Jan 7;95(1):63-8.

Haemostatical and rheological aspects of dysfibrinogenemia. Mörsdorf S, et al. **Clin Hemorheol Microcire** 1997 Jan-Feb; 17(1):13-9

Nonvalvular atrial fibrillation: evidence for a prothrombotic state [see comments] Kahn SR, et al. **CMAJ** 1997 Sep 15; 157(6):673-81. Comment in: CMAJ 1997 Sep 15;157(6):695-7.

Cellular interactions in hemostasis. Hoffman M, et al. **Haemostasis** 1996;26 Suppl 1:12-6 (13 ref.)

Cells and the activation of factor VII. Rao LV, et al. **Haemostasis** 1996;26 Suppl 1:1-5 (20 ref.)

Quantification of hemostatic proteins and activation products in synovial fluids from arthritic joints prior to and after induction of chemical synoviorthesis. Römisch J, et al. **Haemostasis** 1996 May-Jun;26(3):170-7

The tissue factor-factor VII complex: recent advances towards elucidating the structure and function of the initiator of haemostasis. Tuddenham EG. **Haemostasis** 1996;26 Suppl 1:20-4 (12 ref.)

Haemostatic function in coronary artery disease (CAD). Gupta A, et al. **Indian J Pathol Microbiol** 1997 Apr; 40(2):133-7

Hemostatic profile in nephrotic syndrome. Anand NK, et al. **Indian Pediatr** 1996 Dec;33(12):1005-12

Monitoring hemostasis. Whalen J, et al. **Int Anesthesiol Clin** 1996 Summer;34(3):195-213 (63 ref.)

Relation of haemostatic, fibrinolytic, and rheological variables to the angiographic extent of peripheral arterial occlusive disease. Woodburn KR, et al. **Int Angiol** 1995 Sep;14(3):219-25

Haemostatic parameters in childhood nephrotic syndrome. (Is there any difference in protein C levels between steroid sensitive and resistant groups?) Yalçinkaya F, et al. **Int Urol Nephrol** 1995;27(5):643-7

Effect of gradual reduction in O2 delivery on intracellular homeostasis in contracting skeletal muscle. Hogan MC, et al. **J Appl Physiol** 1996 Apr;80(4):1313-21

Hemostatic-endothelial interactions: a potential anticoagulant role of the endothelium in the pulmonary circulation during cardiac surgery. Cardigan RA, et al. **J Cardiothorac Vasc Anesth** 1997 May;11(3):329-36 (59 ref.)

Proceedings of the 1st annual meeting of the Cardiopulmonary Bypass Consensus Panel. Napa Valley, California, October 19-21, 1994. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:v-vii, S1-70 (0 ref.)

Hemostasis and fibrinolysis activation after subarachnoid hemorrhage. Peltonen S, et al. **J Neurosurg** 1997 Aug; 87(2):207-14

Hemostasis activation in patients undergoing brain tumor surgery. Vukovich TC, et al. **J Neurosurg** 1997 Oct; 87(4):508-11

Influence of the renal endothelin system on the autoregulation of renal blood flow in spontaneously hypertensive rats. Braun C, et al. **Kidney Blood Press Res** 1997;20(1):6-10

Venoocclusive disease of the liver after bone marrow transplantation: the role of hemostasis. Faioni EM, et al. **Leuk Lymphoma** 1997 Apr;25(3-4):233-45 (69 ref.)

Haemostatic parameters in patients with primitive venous hypertension. Trifiletti A, et al. **Panminerva Med** 1997 Jun; 39(2):100-2

Factors influencing haemostasis and blood transfusion in cardiac surgery. Liu B, et al. **Perfusion** 1996 Mar; 11(2):131-43

Blood clotting in invertebrates. Srimal S. **Prog Mol Subcell Biol** 1996;15:88-100 (106 ref.)

Activity alterations of chosen parameters of cord blood hemostasis in newborns from complicated pregnancies with premature ablation of placenta. Bielecki M, et al. **Rocz Akad Med Bialymst** 1996;41(2):374-80

Acute phase reaction and the hemostatic balance. Cucuianu M, et al. **Rom J Intern Med** 1996 Jan-Jun;34(1-2):13-8 (28 ref.)

The relevance of developmental hemostasis to hemorrhagic disorders of newborns. Andrew M. **Semin Perinatol** 1997 Feb;21(1):70-85 (142 ref.)

Comparative analysis of haemostatic proteinases: structural aspects of thrombin, factor Xa, factor IXa and protein C. Bode W, et al. **Thromb Haemost** 1997 Jul;78(1):501-11 (97 ref.)

Disorders of hemostasis in childhood: risk factors for venous thromboembolism. Manco-Johnson MJ. **Thromb Haemost** 1997 Jul;78(1):710-4 (34 ref.)

Fibrinolytic and inflammatory markers for arterial occlusion: the evolving epidemiology of thrombosis and hemostasis. Ridker PM. **Thromb Haemost** 1997 Jul;78(1):53-9 (86 ref.)

Influence of maximal ergometric exercise on endothelin concentrations in relation to molecular markers of the hemostatic system. Röcker L, et al. **Thromb Haemost** 1996 Apr;75(4):612-6

Smoking, haemostatic factors and the severity of aorto-iliac and femoro-popliteal disease. Smith FB, et al. **Thromb Haemost** 1996 Jan;75(1):19-24

Fibrinogen and fibrin--proteins with complex roles in hemostasis and thrombosis. Blombäck B. **Thromb Res** 1996 Jul 1;83(1):1-75 (440 ref.)

Hemostatic abnormalities in inflammatory bowel disease. Chiarantini E, et al. **Thromb Res** 1996 Apr 15;82(2):137-46

Age-related reference values for activation markers of the coagulation and fibrinolytic systems in children. Ries M, et al. **Thromb Res** 1997 Feb 15;85(4):341-4

Haemostasis studies related to gastric abdominal haemorrhages. Platonova TN, et al. **Ukr Biokhim Zh** 1996 Jul-Aug;68(4):22-4

Parameters of haemostasis in the elderly people. Sushko EA. **Ukr Biokhim Zh** 1996 Jul-Aug;68(4):21

Hematology and hemostasis in the horse: normal functions and common abnormalities. Lassen ED, et al. **Vet Clin North Am Equine Pract** 1995 Dec;11(3):351-89 (107 ref.)

Markers of haemostatic activation before and after blood donation and plasmapheresis. Rahr HB, et al. **Vox Sang** 1997;73(1):12-5

[Hemostasis and tests used to investigate it] Verdy E. **Prog Urol** 1997 Apr;7(2):320-5 (3 ref.) (Eng. Abstr.) **(Fre)**

[From physiology to pharmacology: the points of impact of antithrombotic agents] Schved JF. **Rev Med Interne** 1997; 18 Suppl 2:87s-90s (8 ref.) **(Fre)**

[Changes in hemostasis during orthotopic liver transplantation and massive transfusion: a case report] Kozek-Langenecker SA, et al. **Infusionsther Transfusionsmed** 1995 Oct;22(5):296-300 (Eng. Abstr.) **(Ger)**

[Pre- and postpartum hemostatic characteristics in pregnancy-related hypertension and pre-eclampsia in comparison with normotensive pregnancies] Hofmann M, et al. **Z Geburtshilfe Neonatol** 1996 May-Jun;200(3):104-8 (Eng. Abstr.) **(Ger)**

[Hemostasis and adhesive proteins in thrombosis] Handa M. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):986-92 **(Jpn)**

[Haemostatic defects in venous thromboembolic disease] Grzywacz A, et al. **Pol Arch Med Wewn** 1995 Oct; 94(4):307-13 (Eng. Abstr.) **(Pol)**

[Effect of dietetic recommendations on the level of some lipid and hemostatic parameters in offspring of parents with risk factors for coronary heart disease] Torbus-Lisiecka B, et al. **Pol Arch Med Wewn** 1996 Oct;96(4):359-66 (Eng. Abstr.) **(Pol)**

[Protein C inhibitor: its properties, function and significance in equilibrium of hemostasis] Fijałkowska I. **Postepy Biochem** 1997;43(1):51-7 (53 ref.) **(Pol)**

[The system of hemostasis in experimental liver transplantation] Zhidkov IL, et al. **Khirurgiia (Mosk)** 1997; (2):35-8 (Eng. Abstr.) **(Rus)**

[Changes of hemostasis in patients with acute hepatitis B and hepatic encephalopathy] Bogomolov BP, et al. **Klin Med (Mosk)** 1997;75(4):26-7 **(Rus)**

[Hemostasis and pathogenetic therapy of unstable angina pectoris] Krashutskii VV, et al. **Klin Med (Mosk)** 1996; 74(7):18-21 (Eng. Abstr.) **(Rus)**

[Hemostasis disorders after resection of liver and approaches to their prevention and correction] Vishnevskii VA, et al. **Klin Med (Mosk)** 1996;74(8):32-4 (Eng. Abstr.) **(Rus)**

[Intravascular coagulation as a typical concomitant of acute pulmonary tuberculosis] Kaminskaia GO, et al. **Probl Tuberk** 1997;(3):42-6 (Eng. Abstr.) **(Rus)**

[Intravascular activation of hemostatic system and DIC syndrome in pulmonary tuberculosis] Makinskiĭ AI. **Probl Tuberk** 1997;(3):46-8 (8 ref.) (Eng. Abstr.) **(Rus)**

[Immunohemostatic mechanisms in the development of primary open-angle glaucoma] Balashova LM. **Vestn Oftalmol** 1997 Mar-Apr;113(2):42-4 (106 ref.) **(Rus)**

[Changes in hemostasis and vagal tonus in healthy individuals and patients with facial neuropathy by micro-dose heparin stimulation of nasal receptors] Uryvaev IV, et al. **Vestn Ross Akad Med Nauk** 1997;(8):22-3 (Eng. Abstr.) **(Rus)**

RADIATION EFFECTS

[An experimental study of the hemostatic system in acute radiation sickness exacerbated by skin burns] Ziablitskiĭ VM, et al. **Radiats Biol Radioecol** 1997 Jan-Feb;37(1):68-75 (Eng. Abstr.) **(Rus)**

HEMOSTASIS, ENDOSCOPIC

Endoscopic hemoclipping for duodenal Dieulafoy's lesion [letter; comment] Hokama A, et al. **Am J Gastroenterol** 1996 Nov;91(11):2450. Comment on: Am J Gastroenterol 1996 Apr;91(4):818-9.

Endoscopic variceal ligation versus endoscopic injection sclerotherapy: comparison of hepatic and renal function. Nakase H, et al. **Am J Gastroenterol** 1996 Oct;91(10):2170-3

Sclerotherapy in noncirrhotic portal fibrosis. Chawla YK, et al. **Dig Dis Sci** 1997 Jul;42(7):1449-53

The outcome of urgent surgery for major peptic ulcer haemorrhage following failed endoscopic therapy. Kubba AK, et al. **Eur J Gastroenterol Hepatol** 1996 Dec; 8(12):1175-8

Oesophageal varices: prophylactic treatment by endoscopic banding ligation prior to index bleed [comment] Przemioslo R, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):329-31 (35 ref.). Comment on: Eur J Gastroenterol Hepatol 1996 Apr;8(4):337-42.

A randomized controlled trial of endoscopic variceal band ligation for primary prophylaxis of variceal bleeding [see comments] Sarin SK, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):337-42. Comment in: Eur J Gastroenterol Hepatol 1996 Apr;8(4):329-31.

Endoscopic injection for bleeding peptic ulcer: a comparison of adrenaline alone with adrenaline plus human thrombin. Kubba AK, et al. **Gastroenterology** 1996 Sep;111(3):623-8

Hassab operation with intraoperative endoscopic injection sclerotherapy ("Hassab-EIS") for esophagogastric varices: with an autopsied case after excessive gastric vascular damage. Nakamura H, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):980-6

How efficient is endoscopic injection sclerotherapy in peptic ulcer hemorrhage. Skok P. **Hepatogastroenterology** 1997 May-Jun;44(15):861-5

Symposium on endoscopic hemostasis in gastric diseases. 1. Endoscopic hemostasis in hemorrhagic gastro-duodenal ulcer. Takahashi H, et al. **Intern Med** 1997 Feb;36(2):125-7

Early or delayed endoscopy for patients with peptic ulcer bleeding. A prospective randomized study. Lin HJ, et al. **J Clin Gastroenterol** 1996 Jun;22(4):267-71

Cruveilhier-Baumgarten syndrome in which venous hum disappeared following endoscopic variceal sclerotherapy. Yamakawa O, et al. **J Gastroenterol** 1996 Aug;31(4):618-22

Randomized trial of endoscopic injection sclerosis with

HEMOSTASIS, ENDOSCOPIC

ethanolamine oleate and ethanol for bleeding peptic ulcer. Mäkelä JT, et al. **Scand J Gastroenterol** 1996 Nov; 31(11):1059–62

Effect of omeprazole on the outcome of endoscopically treated bleeding peptic ulcers. Randomized double-blind placebo-controlled multicentre study [see comments] Schaffalitzky de Muckadell OB, et al. **Scand J Gastroenterol** 1997 Apr;32(4):320–7. Comment in: Scand J Gastroenterol 1997 Apr;32(4):396–8.

The effect of endoscopic injection therapy on the clinical outcome of patients with benign peptic ulcer bleeding. Thomopoulos KC, et al. **Scand J Gastroenterol** 1997 Mar; 32(3):212–6

Efficacy of endoscopic variceal ligation for bleeding esophageal varices in patients with tumor thrombus of the portal vein trunk (Vp3) associated with hepatocellular carcinoma. Kokubu S, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6-139–S6-142

Esophagogastric devascularization and transection for bleeding esophageal varices: first case presentation. Manzano-Trovamala FJ, et al. **Surg Laparosc Endosc** 1996 Aug;6(4):300–3

Emergency endoscopy in patients with portal hypertension having upper gastrointestinal bleeding. Misra SP, et al. **Trop Doct** 1997 Jan;27(1):31–4

[Endoscopic and surgical treatment of acute bleeding gastroduodenal ulcers] Vokurka J, et al. **Bratisl Lek Listy** 1997 Mar;98(3):163–5 (Eng. Abstr.) **(Cze)**

[Endoscopic treatment of digestive system diseases. 7. Evaluation of the therapeutic results of endoscopic treatment] Suzuki S, et al. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1458–62 **(Jpn)**

ADVERSE EFFECTS

Factors related to the failure of endoscopic injection therapy for bleeding gastric ulcer. Sharma VK, et al. **Gastrointest Endosc** 1997 Jul;46(1):95–6

ECONOMICS

An economic analysis of patients with active arterial peptic ulcer hemorrhage treated with endoscopic heater probe, injection sclerosis, or surgery in a prospective, randomized trial. Gralnek IM, et al. **Gastrointest Endosc** 1997 Aug; 46(2):105–12

INSTRUMENTATION

Hemostasis by capping bleeding diverticulum of the colon with clips. Yoshikane H, et al. **Endoscopy** 1997 Jun; 29(5):S33–4

Treating gastrointestinal bleeding with endoscopic hemoclips. Scapa E. **Surg Laparosc Endosc** 1997 Apr; 7(2):94–6

[Controlling complications in laparoscopic cholecystectomy: diffuse parenchyma hemorrhage in the liver parenchyma] Köckerling F, et al. **Zentralbl Chir** 1997;122(5):405–8 (Eng. Abstr.) **(Ger)**

METHODS

Emerging role of endoscopic variceal band ligation in the treatment of esophageal varices. El-Newihi HM, et al. **Dig Dis** 1996 May-Jun;14(3):201–8 (37 ref.)

Suction sclerotherapy for the treatment of esophageal varices. Blackard WG, et al. **Gastrointest Endosc** 1996 Dec; 44(6):725–8

Epinephrine or epinephrine plus alcohol for injection of bleeding ulcers: a prospective randomized trial. Chung SC, et al. **Gastrointest Endosc** 1996 Jun;43(6):591–5

Dieulafoy's lesion in the rectum. Yeoh KG, et al. **Gastrointest Endosc** 1996 Jun;43(6):614–6

Symposium on endoscopic hemostasis in gastric diseases. 2. Choice of endoscopic therapy for esophagogastric varices: aiming for safer and more effective therapy. Iwase H, et al. **Intern Med** 1997 Feb;36(2):128–9

Therapeutic results of endoscopic variceal ligation for acute bleeding of oesophageal and gastric varices. Harada T, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):331–5

Endoscopic variceal ligation. A new era of variceal treatment is opened [editorial] Yamamoto M. **J Gastroenterol Hepatol** 1997 Apr;12(4):336–7

New approaches to endoscopic therapy for a haemostasis upper GI bleed. Rauws EA, et al. **Scand J Gastroenterol Suppl** 1996;218:116–23 (66 ref.)

[Endoscopic treatment of digestive system diseases. 1. Selection of endoscopic hemostasis applied to hemorrhage of the digestive system] Takahashi H, et al. **Nippon Naika Gakkai Zasshi** 1996 Sep 10;85(9):1432–7 (16 ref.) **(Jpn)**

HEMOSTASIS, SURGICAL

Preoperative embolization of anastomoses of the jugular bulb: an adjuvant in jugular foramen surgery. Carrier DA, et al. **AJNR Am J Neuroradiol** 1997 Aug;18(7):1252–6

Prospective, randomized evaluation of the efficacy of fibrin sealant as a topical hemostatic agent at the cannulation site in neonates undergoing extracorporeal membrane oxygenation. Atkinson JB, et al. **Am J Surg** 1997 Jun; 173(6):479–84

Reduction in requirements for allogeneic blood products: nonpharmacologic methods. Hardy JF, et al. **Ann Thorac Surg** 1996 Dec;62(6):1935–43 (62 ref.)

Reduction of femoral artery bleeding post catheterization using a collagen enhanced fibrin sealant. Falstrom JK, et al. **Cathet Cardiovasc Diagn** 1997 May;41(1):79–84

A prospective randomised controlled trial of postoperative autotransfusion with and without a heparin-bonded circuit. Unsworth-White MJ, et al. **Eur J Cardiothorac Surg** 1996; 10(1):38–47

Methods for monitoring hemostasis during and following cardiac surgery. Huffman SM, et al. **Int Anesthesiol Clin** 1996 Spring;34(2):123–39 (34 ref.)

Hemostatic efficacy and safety of TachoComb in surgery. Ready to use and rapid hemostatic agent. Agus GB, et al. **Int Surg** 1996 Jul-Sep;81(3):316–9

Suture placement for hemostasis during laparoscopy using the Stamey needle. Jones JL, et al. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4):445–7

Laparosonic coagulating shears: alternative method of hemostatic control of unsupported tissue. Hoenig DM, et al. **J Endourol** 1996 Oct;10(5):431–3

Effects of minimal-dose aprotinin on coronary artery bypass grafting. Hayashida N, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):261–9

Intrahepatic vascular clamping in complex hepatic vein injuries. Carrillo EH, et al. **J Trauma** 1997 Jul;43(1):131–3

Ligation: an alternative for control of exsanguination in major vascular injuries. Pourmoghadam KK, et al. **J Trauma** 1997 Jul;43(1):126–30

Optimal concentration of epinephrine for vasoconstriction in neck surgery. Dunlevy TM, et al. **Laryngoscope** 1996 Nov;106(11):1412–4

The use of blood products for surgical bleeding. Lipsett PA, et al. **Semin Vasc Surg** 1996 Dec;9(4):347–53 (28 ref.)

Superior gluteal artery injury secondary to posterior iliac crest bone graft harvesting. A surgical technique to control hemorrhage. Shin AY, et al. **Spine** 1996 Jun 1;21(11):1371–4

Endoscopic injection treatment of gastrointestinal bleeding in hemophiliacs. Ziemski JM, et al. **World J Surg** 1996 Nov-Dec;20(9):1166–70

[Conclusions from the clinical trials of TachoComb, a hemostatic] Vykoufil L, et al. **Rozhl Chir** 1996 Apr; 75(4):216–8 (Eng. Abstr.) **(Cze)**

[Arteriovenous dysplasia of the hand. A case report and attempts at conservative therapy] Bahm J, et al. **Handchir Mikrochir Plast Chir** 1996 Jan;28(1):39–42 (Eng. Abstr.) **(Ger)**

ADVERSE EFFECTS

Pringle maneuver during hepatic resection induces inflammatory cytokines [letter] Kita Y, et al. **Dig Dis Sci** 1996 Dec;41(12):2459–60

HISTORY

[Hemostasis hysterectomy in obstetrical practice. Evolution of ideas during a century (from Edoardo Porro until the present)] Sibony O, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(5):533–5 (Eng. Abstr.) **(Fre)**

INSTRUMENTATION

Utility of endoscopic hemoclipping for colonic diverticular bleeding [letter; comment] Hokama A, et al. **Am J Gastroenterol** 1997 Mar;92(3):543–6. Comment on: Am J Gastroenterol 1995 Oct;90(10):1779–84.

Endothelial effects of hemostatic devices for continuous cardioplegia or minimally invasive operations. Perrault LP, et al. **Ann Thorac Surg** 1996 Oct;62(4):1158–63

Arrival of femoral closure devices and the demise of brachial angiography and interventions [editorial; comment] Clark DA. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):384–5. Comment on: Cathet Cardiovasc Diagn 1997 Aug;41(4):378–83.

Usefulness of a peelaway sheath introducer with a splittable hemostatic valve for placement of permanent pacemaker lead. Lee HH. **Cathet Cardiovasc Diagn** 1997 Mar; 40(3):326–7

Sheath pulling immediately after PTCA: comparison of two different deployment techniques for the hemostatic puncture closure device: a prospective, randomized study [see comments] Silber S, et al. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):378–83. Comment in: Cathet Cardiovasc Diagn 1997 Aug;41(4):384–5.

Peripheral vascular complications after intracoronary stent placement: prevention by use of a pneumatic vascular compression device. Sridhar K, et al. **Cathet Cardiovasc Diagn** 1996 Nov;39(3):224–9

New methods of polypectomy. Waye JD. **Gastrointest Endosc Clin N Am** 1997 Jul;7(3):413–22 (36 ref.)

Surgical pearl: the ultrasonic scalpel--a hemostatic tool in Mohs micrographic surgery. Dufresne RG Jr, et al. **J Am Acad Dermatol** 1997 Mar;36(3 Pt 1):471–2

Novel technique and instrumentation for laparoscopic application of hemostatic clips. Chin AK, et al. **J Am Assoc Gynecol Laparosc** 1994 Feb;1(2):150–3

Physiologic mechanism of the ultrasonically activated scalpel. McCarus SD. **J Am Assoc Gynecol Laparosc** 1996 Aug;3(4):601–8

A new access site management tool: the Angio-Seal hemostatic puncture closure device. Henry M, et al. **J Endovasc Surg** 1995 Aug;2(3):289–96

Choledochal 'clipoliths' after cholecystectomy. Brogdon BG, et al. **South Med J** 1996 Nov;89(11):1111–3

METHODS

Snaring of the target vessel in less invasive bypass operations does not cause endothelial dysfunction. Perrault LP, et al. **Ann Thorac Surg** 1997 Mar;63(3):751–5

Control of pre-sacral haemorrhage by drawing pin tamponade. Stewart BT, et al. **Aust N Z J Surg** 1996 Oct; 66(10):715–6

Arrival of femoral closure devices and the demise of brachial angiography and interventions [editorial; comment] Clark DA. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):384–5. Comment on: Cathet Cardiovasc Diagn 1997 Aug;41(4):378–83.

Sheath pulling immediately after PTCA: comparison of two different deployment techniques for the hemostatic puncture closure device: a prospective, randomized study [see comments] Silber S, et al. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):378–83. Comment in: Cathet Cardiovasc Diagn 1997 Aug;41(4):384–5.

Hemostasis in endodontic microsurgery. Kim S, et al. **Dent Clin North Am** 1997 Jul;41(3):499–511

Haemostasis during infrarenal aortic aneurysm surgery: effect of volume loading and cross-clamping. Vahl AC, et al. **Eur J Vasc Endovasc Surg** 1997 Jan;13(1):60–5

The 'band electrode': first experiences with a novel TURP procedure to improve hemostasis. Faul P, et al. **Eur Urol** 1996;30(3):403–8

Endoscopic band ligation of a Dieulafoy lesion in the small intestine of a child. Murray KF, et al. **Gastrointest Endosc** 1996 Sep;44(3):336–9

Argon beam coagulation rescue to correct bleeding during pelviscopy. Galen DI, et al. **J Am Assoc Gynecol Laparosc** 1994 Feb;1(2):146–9

Prophylactic vasopressin during laparoscopic salpingotomy for ectopic pregnancy. Ugur M, et al. **J Am Assoc Gynecol Laparosc** 1996 May;3(3):365–8

Management of penetrating juxtahepatic inferior vena cava injuries under total vascular occlusion. Khaneja SC, et al. **J Am Coll Surg** 1997 May;184(5):469–74

A draping technique for prevention of coronary bypass graft kinking and suture-line oozing. Canver CC. **J Card Surg** 1996 Nov-Dec;11(6):408–10

Individual strategies of hemostasis for thoracic aortic surgery. de Figueiredo LF, et al. **J Card Surg** 1997 Mar-Apr;12(2 Suppl):222–8 (47 ref.)

The management of bleeding following surgery requiring hypothermic circulatory arrest. Rooney SJ, et al. **J Card Surg** 1997 Mar-Apr;12(2 Suppl):238–42

Hemostasis in aortic and cardiothoracic surgery. Shore-Lesserson L, et al. **J Card Surg** 1997 Mar-Apr;12(2 Suppl):232–7 (19 ref.)

Hemostasis for aortic surgery. Svensson LG. **J Card Surg** 1997 Mar-Apr;12(2 Suppl):229–31 (17 ref.)

Microfibrillar collagen (Avitene) and antibiotic-containing fibrin-glue after median sternotomy. Watanabe G, et al. **J Card Surg** 1997 Mar-Apr;12(2):110–1

Multimodality treatment for grade V hepatic injuries: perihepatic packing, arterial embolization, and venous stenting. Denton JR, et al. **J Trauma** 1997 May;42(5):964–7; discussion 967–8

A method for management of extraperitoneal pelvic bleeding secondary to penetrating trauma. Gonzalez RP, et al. **J Trauma** 1997 Aug;43(2):338–41

Mechanisms related to photic hemostasis. Modelling the thrombogenic action of Nd:YAG laser light on the vessels of the human eye. Frankhauser F. **Klin Oczna** 1996; 98(6):465–70

Temporary balloon occlusion of the inferior vena cava as an alternative to cardiopulmonary bypass in resection of Wilms' tumour with vena cava extension. Adams WM, et al. **Pediatr Radiol** 1997 Mar;27(3):236–8

[Hemostasis before retropubic prostatic adenomectomy using temporary clamping of the vesicogenital arteries] Ngo GH, et al. **Prog Urol** 1997 Feb;7(1):126–7 (Eng. Abstr.) **(Fre)**

[Spontaneous pregnancy after ligation of the uterine artery] Abendstein B, et al. **Gynakol Geburtshilfliche Rundsch** 1997; 37(1):41–3 (Eng. Abstr.) **(Ger)**

[The possibilities for hemostasis on the thigh when performing a saphenectomy on patients with varicose veins] Tanasienko ID, et al. **Klin Khir** 1996;(7):47 **(Rus)**

PSYCHOLOGY

Symposium on endoscopic hemostasis in gastric disease. 6. Studies of the medical effectiveness of endoscopic treatment. Suzuki S, et al. **Intern Med** 1997 Feb;36(2):133–5

HEMOSTATIC TECHNIQUES

Hemostasis at skin graft donor sites: evaluation of topical agents. Netscher DT, et al. **Ann Plast Surg** 1996 Jan; 36(1):7–10

Treatment of active gastroesophageal variceal bleeding with terlipressin or hemostatic balloon in patients with cirrhosis. A randomized controlled trial. García-Compeán D, et al. **Arch Med Res** 1997 Summer;28(2):241–5

A simple trick to facilitate bleeding control after percutaneous hemodialysis fistula and graft interventions. Vorwerk D, et al. **Cardiovasc Intervent Radiol** 1997

Mar-Apr;20(2):159-60

Argon plasma coagulation (APC) in gastroenterology: experimental and clinical experiences. Johanns W, et al. **Eur J Gastroenterol Hepatol** 1997 Jun;9(6):581-7

Argon-enhanced cutting and coagulation confers advantages over conventional electrocautery for mastectomy. Kerin MJ, et al. **Eur J Surg Oncol** 1996 Dec;22(6):571-3

Surgical pearl: use of nasal packing with airway after reconstruction of deep nasal defects. Haas AF, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):1007-8

Maintenance of hemostasis after invasive cardiac procedures: implications for outpatient catheterization. Lehmann KG, et al. **J Am Coll Cardiol** 1997 Aug;30(2):444-51

Study of mechanical versus manual/mechanical compression following various interventional cardiology procedures. Rudisill PT, et al. **J Cardiovasc Nurs** 1997 Jan;11(2):15-21

Hemostatic efficacy of a fibrin sealant-based topical agent in a femoral artery injury model: a randomized, blinded, placebo-controlled study. Jackson MR, et al. **J Vasc Surg** 1997 Aug;26(2):274-80

Proximal bleeding control obtained by a balloon catheter in the surgical repair of a left supraclavicular traumatic arteriovenous fistula. Nemes A, et al. **J Vasc Surg** 1997 Mar;25(3):587-90

Fibrin sealants for haemostasis and drug delivery [news] Featherstone C. **Lancet** 1997 Feb 1;349(9048):334

Foley catheters for uncontrollable obstetric or gynecologic hemorrhage. De Loor JA, et al. **Obstet Gynecol** 1996 Oct; 88(4 Pt 2):737

Autologous fibrin glue: production and clinical use. Reiss RF, et al. **Transfus Med Rev** 1996 Apr;10(2):85-92 (71 ref.)

A simple technique to achieve haemostasis and prevent clot retention in suprapubic prostatectomy. Subrahmanyam M. **Trop Doct** 1997 Apr;27(2):107

The scrotal hitch for hemostasis and edema prevention and scrotal surgery [letter; comment] Talarico RD. **Urology** 1997 Feb;49(2):307. Comment on: Urology 1996 Jun;47(6):918-9.

In vitro evaluation of the hemostatic effectiveness of non viable platelet preparations: studies with frozen-thawed, sonicated or lyophilized platelets. Alemany M, et al. **Vox Sang** 1997;73(1):36-42

Hemostatic methods for the management of spleen and liver injuries. Uranüs S, et al. **World J Surg** 1996 Oct; 20(8):1107-11; discussion 1111-2

[Hemostasis technics in partial nephrectomy] Cariou G, et al. **Prog Urol** 1996 Aug-Sep;6(4):605-6 (Eng. Abstr.) **(Fre)**

[Management of iatrogenic hemorrhage after mechanical vascular recanalization] Görich J, et al. **Aktuelle Radiol** 1996 Jan;6(1):28-31 (Eng. Abstr.) **(Ger)**

[Oral surgical procedures during anticoagulant therapy] Blinder D, et al. **Harefuah** 1996 May 15;130(10):681-3, 727 (Eng. Abstr.) **(Heb)**

[Bleeding time indication in invasive and surgical interventions] Sandset PM, et al. **Tidsskr Nor Laegeforen** 1997 Jan 20;117(2):191 **(Nor)**

[Nose bleed and current methods of their management] Aksenov VM, et al. **Vestn Otorinolaringol** 1997;(2):33-4 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Pyogenic granuloma--an uncommon complication of nasal packing. Sheen TS, et al. **Am J Rhinol** 1997 May-Jun; 11(3):225-7

HISTORY

The Journal 150 and 100 years ago. November 1846 and 1896. Colon GA. **J La State Med Soc** 1996 Nov; 148(11):457-9

INSTRUMENTATION

Endoscopic hemoclipping for duodenal Dieulafoy's lesion [letter; comment] Hokama A, et al. **Am J Gastroenterol** 1996 Nov;91(11):2450. Comment on: Am J Gastroenterol 1996 Apr;91(4):818-9.

Airway obstruction due to a Sengstaken-Blakemore tube. Kelly DJ, et al. **Anesth Analg** 1997 Jul;85(1):219-21

Small gauge gelfoam plug liver biopsy in high risk patients: safety and diagnostic value. Fandrich CA, et al. **Australas Radiol** 1996 Aug;40(3):230-4

Immediate sealing of arterial puncture site following femoropopliteal angioplasty: a prospective randomized trial. Beyer-Enke SA, et al. **Cardiovasc Intervent Radiol** 1996 Nov-Dec;19(6):406-10

Artery wall damage and platelet uptake from so-called atraumatic arterial clamps: an experimental study. Margovsky AI, et al. **Cardiovasc Surg** 1997 Feb;5(1):42-7

New device for compression of the radial artery after diagnostic and interventional cardiac procedures [see comments] Chatelain P, et al. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):297-300. Comment in: Cathet Cardiovasc Diagn 1997 Mar;40(3):301.

Mechanical versus manual compression of radial artery following percutaneous transradial approach for coronary arteriography and angioplasty [editorial; comment] Cheng TO. **Cathet Cardiovasc Diagn** 1997 Mar;40(3):301. Comment on: Cathet Cardiovasc Diagn 1997 Mar;40(3):297-300.

Endoscopic retreatment after successful initial hemostasis prevents ulcer rebleeding: a prospective randomized trial. Saeed ZA, et al. **Endoscopy** 1996 Mar;28(3):288-94

The use of a Sengstaken-Blakemore tube to control post-partum hemorrhage. Chan C, et al. **Int J Gynaecol Obstet** 1997 Aug;58(2):251-2

Use of a collagen hemostatic closure device to achieve hemostasis after arterial puncture: a cost-effectiveness analysis [see comments] Bos JJ, et al. **J Vasc Interv Radiol** 1996 Jul-Aug;7(4):479-86. Comment in: J Vasc Interv Radiol 1997 Mar-Apr;8(2):299-300.

Use of a collagen hemostatic closure device to achieve hemostasis after arterial puncture [letter; comment] Broderick JN. **J Vasc Interv Radiol** 1997 Mar-Apr; 8(2):299-300. Comment on: J Vasc Interv Radiol 1996 Jul-Aug;7(4):479-86.

[Hemostasis with the endoscope] Bohnacker S, et al. **Internist (Berl)** 1996 Aug;37(8):817-22 (30 ref.) **(Ger)**

[Reduction of puncture-induced complications after heart catheterization by optimized compression technique despite reduced compression time. A prospective, duplex ultrasound and pressure controlled study] Sotiriou M, et al. **Med Klin** 1996 Sep 15;91(9):557-63 (Eng. Abstr.) **(Ger)**

VETERINARY

Evaluation of a hemostasis model for teaching basic surgical skills. Olsen D, et al. **Vet Surg** 1996 Jan-Feb;25(1):49-58

HEMOSTATICS

see related

VASOCONSTRICTOR AGENTS

Influence of fibrin sealant (Tisseel) on osteochondral defect repair in the rabbit knee. Brittberg M, et al. **Biomaterials** 1997 Feb;18(3):235-42

Injection of fibrin tissue adhesive versus laser photocoagulation in the treatment of high-risk bleeding peptic ulcers: a controlled randomized study. Spinzi G, et al. **Gastrointest Endosc** 1997 Aug;46(2):198-9

Comparative in vitro analysis of topical hemostatic agents. Wagner WR, et al. **J Surg Res** 1996 Dec;66(2):100-8

A prospective randomized controlled study of 4% lignocaine solution in Merocel nasal pack removal. Lavy JA, et al. **Rhinology** 1996 Dec;34(4):219-21

Fibrin sealant: scientific rationale, production methods, properties, and current clinical use. Radosevich M, et al. **Vox Sang** 1997;72(3):133-43 (71 ref.)

[Conclusions from the clinical trials of TachoComb, a hemostatic] Vykouřil L, et al. **Rozhl Chir** 1996 Apr; 75(4):216-8 (Eng. Abstr.) **(Cze)**

[Comment on the contribution by J. Strutz. Bismuth gallate in wound management (letter)] Greusing B. **HNO** 1996 Aug;44(8):426 **(Ger)**

ADMINISTRATION & DOSAGE

Intravenous vitamin K1 prior to orthotopic heart transplantation: effects in vivo and in vitro. Barnette RE, et al. **Acta Anaesthesiol Scand** 1997 Jan;41(1 Pt 1):78-83

Effect of a reduced vitamin K supplementation on prothrombin time in prematures and high-risk neonates. Rossi R, et al. **Acta Paediatr** 1996 Jun;85(6):747-9

Hemostasis at skin graft donor sites: evaluation of topical agents. Netscher DT, et al. **Ann Plast Surg** 1996 Jan; 36(1):7-10

"Low-dose" aprotinin modifies hemostasis but not proinflammatory cytokine release. Ashraf S, et al. **Ann Thorac Surg** 1997 Jan;63(1):68-73

Prospective, randomized, double-blind study of high-dose aprotinin in pediatric cardiac operations. Davies MJ, et al. **Ann Thorac Surg** 1997 Feb;63(2):497-503

Aprotinin for primary coronary artery bypass grafting: a multicenter trial of three dose regimens [see comments] Lemmer JH Jr, et al. **Ann Thorac Surg** 1996 Dec; 62(6):1659-67; discussion 1667-8. Comment in: Ann Thorac Surg 1996 Dec;62(6):1575-7.

Aprotinin: safe and effective only with the full-dose regimen [editorial; comment] Smith PK, et al. **Ann Thorac Surg** 1996 Dec;62(6):1575-7. Comment on: Ann Thorac Surg 1996 Dec;62(6):1659-7; discussion 1667-8.

Reduction in costs, blood products, and operating time in patients undergoing open heart surgery. Lazzara RR, et al. **Arch Surg** 1997 Aug;132(8):858-60; discussion 861

A highly sensitive model for quantification of in vivo tumor angiogenesis induced by alginate-encapsulated tumor cells. Hoffmann J, et al. **Cancer Res** 1997 Sep 1;57(17):3847-51

Aprotinin inhibits plasmin-induced platelet activation during cardiopulmonary bypass. Shigeta O, et al. **Circulation** 1997 Jul 15;96(2):569-74

Aprotinin in aortic surgery requiring profound hypothermia and circulatory arrest. Rooney SJ, et al. **Eur J Cardiothorac Surg** 1997 Feb;11(2):373-8

Factors related to the failure of endoscopic injection therapy for bleeding gastric ulcer. Sharma VK, et al. **Gastrointest Endosc** 1997 Jul;46(1):95-6

Intrarectal fibrin glue: a novel method of hemostasis for bleeding from rectal tumor. Soweid AM, et al. **Gastrointest Endosc** 1997 May;45(5):427-9 (16 ref.)

Endoscopic injection of gelatin solution for severe hemorrhagic gastric cancer. Tajika M, et al. **Gastrointest Endosc** 1996 Mar;43(3):247-50 (10 ref.)

Randomized, placebo-controlled, double-blind study of an ultra-low-dose aprotinin regimen in reoperative and/or complex cardiac operations. Hardy JF, et al. **J Card Surg** 1997 Jan-Feb;12(1):15-22

Use of aprotinin after cardiac operations [letter] Alvarez JM. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):513-4

Postoperative use of aprotinin in cardiac operations: an alternative to its prophylactic use. Çiçek S, et al. **J Thorac Cardiovasc Surg** 1996 Dec;112(6):1462-7

Aprotinin in primary valve replacement and reconstruction: a multicenter, double-blind, placebo-controlled trial. D'Ambra MN, et al. **J Thorac Cardiovasc Surg** 1996 Oct; 112(4):1081-9

Effects of minimal-dose aprotinin on coronary artery bypass grafting. Hayashida N, et al. **J Thorac Cardiovasc Surg** 1997 Aug;114(2):261-9

Subendometrial vasopressin to control intractable placental bleeding [letter] Lurie S, et al. **Lancet** 1997 Mar 8; 349(9053):698

A randomized comparison of vasopressin and tourniquet as hemostatic agents during myomectomy [letter; comment] Hutchins FL Jr. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):639-40 . Comment on: Obstet Gynecol 1996 Jun;87(6):1014-8.

Septal reconstruction in nasal septum surgery with a composite-sandwich technique. Savoca A, et al. **Rhinology** 1997 Mar;35(1):37-8

[Reduction of blood loss in orthotopic liver transplantation with the use of aprotinin] Légaré G, et al. **Ann Chir** 1996; 50(8):601-5 (Eng. Abstr.) **(Fre)**

[Modality of use of vitamin K in France in newborn infants] Autret E, et al. **Arch Pediatr** 1996 Jul;3(7):675-80 (Eng. Abstr.) **(Fre)**

[Combined erythropoietin and aprotinin use for blood conservation in elderly coronary bypass patients] Oshima N, et al. **Kyobu Geka** 1997 Jul;50(8 Suppl):707-10 (Eng. Abstr.) **(Jpn)**

[Aprotinin 2 million KIU reduces perioperative blood loss in patients undergoing primary total hip replacement] Utada K, et al. **Masui** 1997 Jan;46(1):77-82 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Acute respiratory distress syndrome after aprotinin infusion. Vucicevic Z, et al. **Ann Pharmacother** 1997 Apr; 31(4):429-32

Anaphylactic shock after aprotinin reexposure: time course of aprotinin-specific antibodies. Scheule AM, et al. **Ann Thorac Surg** 1997 Jan;63(1):242-4

Acute pulmonary oedema following administration of vasopressin for control of massive GI tract haemorrhage in a major burn patient. Lin TW, et al. **Burns** 1996 Feb; 22(1):73-5

Is use of aprotinin safe with deep hypothermic circulatory arrest in aortic surgery? Investigations on blood coagulation. Okita Y, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II177-81

Fatal thromboembolism in acute promyelocytic leukaemia treated with a combination of all-trans retinoic acid and aprotonin. Mahendra P, et al. **Clin Lab Haematol** 1996 Mar; 18(1):51-2

Edema, thrombin, and dexamethasone [letter; comment] Abdou S. **J Neurosurg** 1997 Mar;86(3):575. Comment on: J Neurosurg 1996 Aug;85(2):335-9.

A brief review of studies evaluating the adverse effects of aprotinin therapy in aortocoronary bypass surgery [letter] Ray MJ, et al. **Thromb Haemost** 1997 May;77(5):1038-40 (17 ref.)

Aprotinin has no effect on platelet activation and adhesion during cardiopulmonary bypass. Wahba A, et al. **Thromb Haemost** 1996 May;75(5):844-8

[Effect of aprotinin on bleeding during and graft patency after coronary artery bypass grafting] Minohara S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):821-4 (Eng. Abstr.) **(Jpn)**

ANALYSIS

Vitamin K in milk and infant formulas: determination and distribution of phylloquinone and menaquinone-4. Indyk HE, et al. **Analyst** 1997 May;122(5):465-9

Menaquinone-4 accumulation in various tissues after an oral administration of phylloquinone in Wistar rats. Yamamoto R, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Feb; 43(1):133-43

BLOOD

Maintenance of therapeutic plasma aprotinin levels during prolonged cardiopulmonary bypass using a large-dose regimen. Bennett-Guerrero E, et al. **Anesth Analg** 1996 Dec;83(6):1189-92

Elimination half-life of vitamin K1 in neonates is longer than is generally assumed: implications for the prophylaxis of haemorrhaghic disease of the newborn [letter] Stoeckel K, et al. **Eur J Clin Pharmacol** 1996;49(5):421-3

Intracranial volume receptors: possible role on ADH homeostatic control. Satta A, et al. **J Endocrinol Invest** 1996 Jul-Aug;19(7):455-62

METABOLISM

Acidity is involved in the development of neuropathy caused by oxidized cellulose. Nagamatsu M, et al. **J Neurol Sci** 1997 Mar 10;146(2):97-102

Small effects of linseed oil or fish oil supplementation on

HEMOSTATICS

postprandial changes in hemostatic factors. Freese R, et al. **Thromb Res** 1997 Jan 15;85(2):147–52

PHARMACOKINETICS

A pharmacokinetic study with the high-dose anticancer agent menadione in rabbits. Hu OY, et al. **Biopharm Drug Dispos** 1996 Aug;17(6):493–9

PHARMACOLOGY

The effect of aprotinin on thrombelastography in vitro [see comments] Chalkiadis GA, et al. **Anaesth Intensive Care** 1996 Oct;24(5):552–4. Comment in: Anaesth Intensive Care 1997 Apr;25(2):195–6.

Aprotinin and the TEG [letter; comment] Jenkins IR. **Anaesth Intensive Care** 1997 Apr;25(2):195–6. Comment on: Anaesth Intensive Care 1996 Oct;24(5):552–4.

Efficacy of the chitosan posttreatment in calcification prevention of the glutaraldehyde-treated porcine aortic noncoronary cusp implanted in the right ventricular outflow tract in dogs. Kuribayashi R, et al. **Artif Organs** 1996 Jul;20(7):761–6

Menadione-resistant Chinese hamster ovary cells have an increased capacity for glutathione synthesis. Vallis KA, et al. **Br J Cancer** 1997;76(7):870–7

Tissue reaction to three subcutaneously implanted local hemostatic agents. Alpaslan C, et al. **Br J Oral Maxillofac Surg** 1997 Apr;35(2):129–32

Effects of calcium dobesilate on the synthesis of endothelium-dependent relaxing factors in rabbit isolated aorta. Ruiz E, et al. **Br J Pharmacol** 1997 Jun;121(4):711–6

Dose dependent effect of aprotinin on rate of clot formation. De Hert SG, et al. **Eur J Anaesthesiol** 1996 Sep;13(5):463–7

Evaluation of the anticoagulant properties of aprotinin in vitro. Mortier E, et al. **Eur J Anaesthesiol** 1996 Sep; 13(5):468–70

Effects of neurohypophyseal hormone analogues on blood clotting factor VIII and fibrinolytic activity in sheep. Neuenschwander S, et al. **Eur J Pharmacol** 1997 Apr 4; 323(2–3):205–13

Protamine sulphate inhibits pentasaccharide (SR80027)-induced bleeding without affecting its antithrombotic and anti-factor Xa activity in the rat. Bernat A, et al. **Haemostasis** 1996 Jul–Aug;26(4):195–202

Use of chitosan as a biomaterial: studies on its safety and hemostatic potential. Rao SB, et al. **J Biomed Mater Res** 1997 Jan;34(1):21–8

Effects of soluble sodium alginate on cholesterol excretion and glucose tolerance in rats. Kimura Y, et al. **J Ethnopharmacol** 1996 Oct;54(1):47–54

Menadione inhibits MIBG uptake in two neuroendocrine cell lines. Cornelissen J, et al. **J Neurooncol** 1997 Jan; 31(1–2):147–51

Smear layer instability caused by hemostatic agents. Land MF, et al. **J Prosthet Dent** 1996 Nov;76(5):477–82

Effect of aprotinin on vascular reactivity of coronary bypass grafts. Allen S, et al. **J Thorac Cardiovasc Surg** 1997 Feb; 113(2):319–26

External dacryocystorhinostomy without mucosal flaps: comparison of petroleum jelly gauze nasal packing with gelatin sponge nasal packing. Mauriello JA Jr, et al. **Ophthalmic Surg Lasers** 1996 Jul;27(7):605–11

Thromboelastographic analysis of patients receiving aprotinin with comparisons to platelet aggregation and other assays. Koza MJ, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:80–5

Desmopressin, hemostasis, and vascular surgery. Clagett GP. **Semin Vasc Surg** 1996 Dec;9(4):340–6 (30 ref.)

Aprotinin is associated with a decrease in nitric oxide production during cardiopulmonary bypass. Hill GE, et al. **Surgery** 1997 Apr;121(4):449–55

THERAPEUTIC USE

Coagulation in cardiac surgery. Royston D. **Adv Card Surg** 1996;8:19–45 (125 ref.)

Review article: the role of pharmaco-therapy for acute variceal haemorrhage in the era of endoscopic haemostasis. Chan LY, et al. **Aliment Pharmacol Ther** 1997 Feb; 11(1):45–50 (52 ref.)

Randomized blinded study of aprotinin infusion for liver crush injuries in the pig model. Thomae KR, et al. **Am Surg** 1997 Feb;63(2):113–20

The efficacy and cost of aprotinin in children undergoing reoperative open heart surgery. D'Errico CC, et al. **Anesth Analg** 1996 Dec;83(6):1193–9

Aprotinin reduces interleukin-8 production and lung neutrophil accumulation after cardiopulmonary bypass. Hill GE, et al. **Anesth Analg** 1996 Oct;83(4):696–700

Aprotinin reduces blood loss in patients undergoing elective liver resection. Lentschener C, et al. **Anesth Analg** 1997 Apr;84(4):875–81

Use of a collagen plug versus manual compression for sealing arterial puncture site after cardiac catheterization. Gwechenberger M, et al. **Angiology** 1997 Feb;48(2):121–6

Aprotinin protects against myocardial and oxidant formation and endothelial cell damage during open heart surgery. Rao PS, et al. **Ann N Y Acad Sci** 1996 Sep 30;793:514–6

Octreotide or vasopressin for bleeding esophageal varices. Law AW, et al. **Ann Pharmacother** 1997 Feb;31(2):237–8 (15 ref.)

Heparin coating with aprotinin reduces blood activation during coronary artery operations. Baufreton C, et al. **Ann Thorac Surg** 1997 Jan;63(1):50–6

The use of aprotinin for patients undergoing coronary artery bypass graft procedures. Whitener RT, et al. **AORN J** 1996 Jan;63(1):229–34

The treatment of haemophilia, including prophylaxis, constant infusion and DDAVP. Berntorp E. **Baillieres Clin Haematol** 1996 Jun;9(2):259–71 (54 ref.)

Practice tips. Mole no more. Manca DP. **Can Fam Physician** 1997 Aug;43:1359

Activated clotting time measurements and aprotinin studies [letter; comment] Abramson DC, et al. **Circulation** 1996 Oct 1;94(7):1791–2. Comment on: Circulation 1995 Oct 15;92(8):2236–44.

Half-dose aprotinin does not affect haemorheological properties in patients undergoing bypass surgery. Liu B, et al. **Coron Artery Dis** 1996 Aug;7(8):609–13

Guidelines for the diagnosis and management of von Willebrand's disease [letter] Cattaneo M, et al. **Eur J Anaesthesiol Suppl** 1997 Mar;14:23

Review of clinical experience of desmopressin in patients with congenital and acquired bleeding disorders. Cattaneo M. **Eur J Anaesthesiol Suppl** 1997 Mar;14:10–4; discussion 14–8 (25 ref.)

High-dose desmopressin in bleeding disorders [editorial] Douglas JT, et al. **Eur J Anaesthesiol Suppl** 1997 Mar; 14:v–vi

Pharmacological prophylaxis of bleeding in surgical patients treated with aspirin. Flordal PA. **Eur J Anaesthesiol Suppl** 1997 Mar;14:38–41 (29 ref.)

Desmopressin and bleeding during invasive surgery. Hunt BJ. **Eur J Anaesthesiol Suppl** 1997 Mar;14:42–7; discussion 47–9 (30 ref.)

Desmopressin--a haemostatic drug: state-of-the-art review. Lethagen S. **Eur J Anaesthesiol Suppl** 1997 Mar;14:1–9 (76 ref.)

The UK guidelines for the use of desmopressin in patients with von Willebrand's disease.Von ? Willebrand Working Party of the United Kingdom Haemophilia Centre Director's Organization. Lethagen S, et al. **Eur J Anaesthesiol Suppl** 1997 Mar;14:19–22

Controlled clinical studies of fibrin sealant in cardiothoracic surgery--a review. Kjaergard HK, et al. **Eur J Cardiothorac Surg** 1996;10(9):727–33 (30 ref.)

Nasal packing for epistaxis: two methods compared [letter] Saab M, et al. **Eur J Emerg Med** 1997 Mar;4(1):44

Surgicel reinforced resection lines in left-sided hepatectomy with linear stapling device. An experimental study on pigs. Zilling T, et al. **HPB Surg** 1996;9(2):97–9

Aprotinin diminishes inflammatory processes. Soeparwata R, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S55–63

Prophylactic vasopressin during laparoscopic salpingotomy for ectopic pregnancy. Ugur M, et al. **J Am Assoc Gynecol Laparosc** 1996 May;3(3):365–8

The management of bleeding following surgery requiring hypothermic circulatory arrest. Rooney SJ, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):238–42

A case for aprotinin in patients having deep hypothermic circulatory arrest. Royston D. **J Card Surg** 1997 Mar–Apr; 12(2 Suppl):214–20; discussion 220–1 (54 ref.)

Hemostasis in aortic and cardiothoracic surgery. Shore-Lesserson L, et al. **J Card Surg** 1997 Mar–Apr;12(2 Suppl):232–7 (19 ref.)

Safety and efficacy of aprotinin in profoundly hypothermic circulatory arrest. Westaby S. **J Card Surg** 1997 Mar–Apr; 12(2 Suppl):207–13 (32 ref.)

The efficacy of single-dose aprotinin 2 million KIU in reducing blood loss and its impact on the incidence of deep venous thrombosis in patients undergoing total hip replacement surgery. Hayes A, et al. **J Clin Anesth** 1996 Aug;8(5):357–60

Is aprotinin indicated for reoperative valvular surgery? Goldstein DJ, et al. **J Heart Valve Dis** 1997 Jan;6(1):88–92

Calcium alginate as haemostatic swabs in hip fracture surgery. Davies MS, et al. **J R Coll Surg Edinb** 1997 Feb; 42(1):31–2

Therapeutic effect of ethamsylate in a case of hyperglobulinemic purpura associated with Sjogren's syndrome [letter] Casas HA. **J Rheumatol** 1996 Mar; 23(3):573

Use of a collagen hemostatic closure device to achieve hemostasis after arterial puncture: a cost-effectiveness analysis [see comments] Bos JJ, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):479–86. Comment in: J Vasc Interv Radiol 1997 Mar–Apr;8(2):299–300.

The effect of dilute vasopressin solution on blood loss during operative hysteroscopy: a randomized controlled trial. Phillips DR, et al. **Obstet Gynecol** 1996 Nov;88(5):761–6

A comparison of the biocompatibility of three absorbable hemostatic agents in the rat middle ear. Liening DA, et al. **Otolaryngol Head Neck Surg** 1997 Apr;116(4):454–7

Efficacy and safety of aprotinin in aortocoronary bypass and valve replacement operations: a placebo-controlled randomized double-blind study. Rodrigus IE, et al. **Perfusion** 1996 Jul;11(4):313–8

Implications of new dry fibrin sealant technology for trauma surgery. Holcomb JB, et al. **Surg Clin North Am** 1997 Aug; 77(4):943–52 (35 ref.)

Fibrin tissue adhesives. Martinowitz U, et al. **Thromb Haemost** 1997 Jul;78(1):661–6 (70 ref.)

Efficacy of hemostatic agents in improving surgical hemostasis. Green D, et al. **Transfus Med Rev** 1996 Jul; 10(3):171–82 (142 ref.)

Therapeutic use of fibrin--a new class of fibrin sealant with minimal risks. Cederholm-Williams SA. **Ukr Biokhim Zh** 1996 Jul–Aug;68(4):34–6 (29 ref.)

A randomised trial of fibrin sealant in peripheral vascular surgery. Milne AA, et al. **Vox Sang** 1996;70(4):210–2

[The effects of aprotinin. Blood loss and coagulation parameters in orthotopic liver transplantation: A clinical-experimental, prospective and randomized double-blind study] Kratzer MA, et al. **Anaesthesist** 1997 Apr;46(4):294–302 (Eng. Abstr.) **(Ger)**

[Effect of aprotinin on bleeding during and graft patency after coronary artery bypass grafting] Minohara S, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):821–4 (Eng. Abstr.) **(Jpn)**

[Aprotinin reduces homologous blood transfusions when pediatric cardiac surgery must be redone] Ohuchi H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Nov; 44(11):1980–5 (Eng. Abstr.) **(Jpn)**

[Current perspective on the clinical use of fibrinogen] Yamazumi K, et al. **Rinsho Byori** 1997 Feb;Suppl 104:37–40 (10 ref.) **(Jpn)**

[Hydroxyapol and Colapol in dental practice] Leont'ev VK, et al. **Stomatologiia (Mosk)** 1995;74(6):64 **(Rus)**

[Aprotinin in orthotopic liver transplantation (letter; comment)] García Huete L, et al. **Med Clin (Barc)** 1997 Mar 22;108(11):439. Comment on: Med Clin (Barc) 1996 Mar 2;106(8):307–16. **(Spa)**

TOXICITY

Metabolism and cytotoxicity of menadione and its metabolite in rat platelets. Chung JH, et al. **Toxicol Appl Pharmacol** 1997 Feb;142(2):378–85

HEMOTHORAX

Hemothorax and chylothorax. Yeam I, et al. **Curr Opin Pulm Med** 1997 Jul;3(4):310–4 (45 ref.)

DIAGNOSIS

Aneurysm of the arch of aorta presenting as an opaque hemithorax. Avasthi G, et al. **J Assoc Physicians India** 1995 Jun;43(6):435–6

Hemopneumothorax missed by auscultation in penetrating chest injury. Chen SC, et al. **J Trauma** 1997 Jan;42(1):86–9

MRI finding of chronic hemorrhagic empyema: a case report. Imanaka K, et al. **Radiat Med** 1996 Jul–Aug;14(4):201–3

[The diagnosis and treatment of coagulated hemothorax after gunshot trauma to the chest] Rybakov SM, et al. **Voen Med Zh** 1996 Sep;317(9):26–9 **(Rus)**

ETIOLOGY

Hemothorax due to spontaneous bleeding into posterior pararenal space [letter; comment] Gaeta M, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):566–7. Comment on: AJR Am J Roentgenol 1994 Mar;162(3):733–4.

Exostosis of a rib causing laceration of the diaphragm: diagnosis and management. Simansky DA, et al. **Ann Thorac Surg** 1997 Mar;63(3):856–7

Spontaneous haemothorax caused by costal exostosis. Uchida K, et al. **Eur Respir J** 1997 Mar;10(3):735–6

Case Report: haemothorax due to hepatocellular carcinoma rupture successfully controlled by transcatheter arterial embolization. Masumoto A, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):156–8

Haematemesis and haemothorax following traumatic rupture of diaphragm--a case report. Singh S, et al. **J Indian Med Assoc** 1995 Nov;93(11):431–2

Video-assisted thoracic surgery in treatment of chest trauma. Liu DW, et al. **J Trauma** 1997 Apr;42(4):670–4 (20 ref.)

Haemothorax following central line placement [letter] Margolis JO, et al. **Paediatr Anaesth** 1997;7(2):178

Recurrent massive hemothorax in Rendu-Osler-Weber syndrome. Adegboyega PA, et al. **South Med J** 1996 Dec; 89(12):1193–6

Spontaneous haemothorax associated with von Recklinghausen's disease: review of occurrence in Japan. Miura H, et al. **Thorax** 1997 Jun;52(6):577–8; discussion 575–6

[Hemothorax in the posterior mediastinum in extramedullary hemopoiesis] Malinovská V, et al. **Vnitr Lek** 1996 Aug; 42(8):555–6 (Eng. Abstr.) **(Cze)**

[Massive haemothorax caused by intralobar pulmonary sequestration] Iliás L, et al. **Orv Hetil** 1996 Jun 9; 137(23):1263–5 (25 ref.) (Eng. Abstr.) **(Hun)**

RADIOGRAPHY

Trauma ultrasound examination versus chest radiography in the detection of hemothorax. Ma OJ, et al. **Ann Emerg Med** 1997 Mar;29(3):312–5; discussion 315–6

SURGERY

The role of thoracoscopy in the management of retained thoracic collections after trauma. Heniford BT, et al. **Ann Thorac Surg** 1997 Apr;63(4):940–3

Video-assisted thoracic surgery in treatment of chest trauma. Liu DW, et al. **J Trauma** 1997 Apr;42(4):670–4 (20 ref.)

[Traumatic transection of the descending thoracic aorta with free open rupture in left pleural cavity--a case report] Kamohara K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May;45(5):783–6 (Eng. Abstr.) **(Jpn)**

THERAPY

Subclavian artery obstruction by tube thoracostomy. Moskal TL, et al. **J Trauma** 1997 Aug;43(2):368–9

[Wilson-Jones type angiosarcoma with marked response to intrapleural administration of interleukin-2] Yamada Y, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1995 Dec; 33(12):1441–5 (Eng. Abstr.) **(Jpn)**

[Use of thoracoscopy in the treatment of post-traumatic coagulated hemothorax] Makarov AV, et al. **Klin Khir** 1996;(10):8–9 **(Rus)**

ULTRASONOGRAPHY

Trauma ultrasound examination versus chest radiography in the detection of hemothorax. Ma OJ, et al. **Ann Emerg Med** 1997 Mar;29(3):312–5; discussion 315–6

HEMOTOXINS see **HEMOLYSINS**

HEMP see **CANNABIS**

HEMPA

PHARMACOKINETICS

Baculovirus-mediated expression and characterization of rat CYP2A3 and human CYP2a6: role in metabolic activation of nasal toxicants. Liu C, et al. **Mol Pharmacol** 1996 Oct; 50(4):781–8

Nasal cytochrome P450 2A: identification, regional localization, and metabolic activity toward hexamethylphosphoramide, a known nasal carcinogen. Thornton-Manning JR, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):22–30

TOXICITY

Baculovirus-mediated expression and characterization of rat CYP2A3 and human CYP2a6: role in metabolic activation of nasal toxicants. Liu C, et al. **Mol Pharmacol** 1996 Oct; 50(4):781–8

HEMPAS see **ANEMIA, DYSERYTHROPOIETIC, CONGENITAL**

HENDERSON-JONES SYNDROME see **CHONDROMATOSIS, SYNOVIAL**

HENOCH PURPURA see **PURPURA, SCHOENLEIN-HENOCH**

HEPADNAVIRIDAE

ENZYMOLOGY

Expression and characterization of hepadnavirus reverse transcriptases. Hu J, et al. **Methods Enzymol** 1996; 275:195–208

In situ DNA polymerase and RNase H activity gel assays as applied to hepadnavirus particles. Oberhaus SM, et al. **Methods Enzymol** 1996;275:328–47

GENETICS

In vitro model for the nuclear transport of the hepadnavirus genome. Kann M, et al. **J Virol** 1997 Feb;71(2):1310–6

Interaction of the UV-damaged DNA-binding protein with hepatitis B virus X protein is conserved among mammalian hepadnaviruses and restricted to transactivation-proficient X-insertion mutants. Sitterlin D, et al. **J Virol** 1997 Aug; 71(8):6194–9

PHYSIOLOGY

Hepadnaviruses: current models of RNA encapsidation and reverse transcription. Fallows DA, et al. **Adv Virus Res** 1996;46:165–94 (138 ref.)

HEPADNAVIRIDAE INFECTIONS

DRUG THERAPY

The guanine nucleoside analog penciclovir is active against chronic duck hepatitis B virus infection in vivo. Lin E, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):413–18

2',3'-dideoxy-beta-L-5-fluorocytidine inhibits duck hepatitis B virus reverse transcription and suppresses viral DNA synthesis in hepatocytes, both in vitro and in vivo. Zoulim F, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):448–53

ETIOLOGY

DHBV manipulation and prediction of the outcome of infection. Vickery K, et al. **J Hepatol** 1996 Oct;25(4):504–9

IMMUNOLOGY

Immunological responsiveness of Pekin ducks to core antigen of duck hepatitis B virus. Heermann KH, et al. **Intervirology** 1995;38(6):316–24

Mapping of the cellular immune responses to woodchuck hepatitis core antigen epitopes in chronically infected woodchucks. Shanmuganathan S, et al. **J Med Virol** 1997 Jun;52(2):128–35

METABOLISM

The role of recombinant human fusion protein IL-6/IL-2 (CH925) in hepadna virus infection treatment. Mi Z, et al. **Chin Med Sci J** 1995 Dec;10(4):210–3

THERAPY

Recombinant vaccinia virus expressing Pre-S/S protein of duck hepatitis B virus and its preliminary use for treatment of persistent infection. Ma ZM, et al. **Acta Virol** 1996 Nov-Dec;40(5–6):311–4

VETERINARY

Kinetics of duck hepatitis B virus infection following low dose virus inoculation: one virus DNA genome is infectious in neonatal ducks. Jilbert AR, et al. **Virology** 1996 Dec 15;226(2):338–45

VIROLOGY

In vitro model for the nuclear transport of the hepadnavirus genome. Kann M, et al. **J Virol** 1997 Feb;71(2):1310–6

In vivo selection of duck hepatitis B virus pre-S variants which escape from neutralization. Sunyach C, et al. **Virology** 1997 Aug 4;234(2):291–9

HEPARAN SULFATE see **HEPARITIN SULFATE**

HEPARIN

The effect of heparin-surface-modification on scar-tissue formation around a subconjunctival polymethylmethacrylate implant in the rabbit. Kivalo M. **Acta Ophthalmol Scand** 1997 Apr;75(2):189–93

Heparin coating with aprotinin reduces blood activation during coronary artery operations. Baufreton C, et al. **Ann Thorac Surg** 1997 Jan;63(1):50–6

Attenuation of changes in leukocyte surface markers and complement activation with heparin-coated cardiopulmonary bypass. Moen O, et al. **Ann Thorac Surg** 1997 Jan;63(1):105–11

Testing a community level research utilization intervention. Shively M, et al. **Appl Nurs Res** 1997 Aug;10(3):121–7

Adult placenta: heparin bonded extracorporeal life support systems. Golding LA. **ASAIO J** 1996 Jan-Feb;42(1):16–8 (24 ref.)

Development of a thermal cross-linking heparinization method and its application to small caliber vascular prostheses. Iwai Y. **ASAIO J** 1996 Sep-Oct;42(5):M693–7

Heparin free hemodialysis using heparin coated hemophan. Mujais SK, et al. **ASAIO J** 1996 Sep-Oct;42(5):M538–41

Covalent bonding of heparin to a vinyl copolymer for biomedical applications. Marconi W, et al. **Biomaterials** 1997 Jun;18(12):885–90

Heparinization of gas plasma-modified polystyrene surfaces and the interactions of these surfaces with proteins studied with surface plasmon resonance. van Delden CJ, et al. **Biomaterials** 1997 Jun;18(12):845–52

A fatal low-molecular-weight heparin-associated thrombocytopenia after hip surgery: possible usefulness of PF4-heparin ELISA test. Elalamy I, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):665–71

Matas Lecture. Heparin--controversies and misconceptions. Blaisdell FW. **Cardiovasc Surg** 1996 Dec;4(6):691–700 (104 ref.)

Experimental study of thrombogenicity and foreign body reaction induced by heparin-coated coronary stents. De Scheerder I, et al. **Circulation** 1997 Mar 18;95(6):1549–53

Suitability of lithium heparinate plasma for the measurement of selected analytes on Beckman Synchron CX analyzers. Racine JF, et al. **Clin Biochem** 1996 Oct;29(5):493–5

Heparin interference with sodium and albumin assays [letter] Karon BS, et al. **Clin Chem** 1997 Apr;43(4):697–8

Desferrioxamine infusion due to heparin interference with iron assay. A paediatric problem [letter] Reynolds T, et al. **Clin Chim Acta** 1997 May 28;261(2):191–3

A retrospective analysis of heparin-surface-modified intraocular lenses versus regular polymethylmethacrylate intraocular lenses in patients with uveitis. Lardenoye CW, et al. **Doc Ophthalmol** 1996–97;92(1):41–50

Duraflo II coating of cardiopulmonary bypass circuits reduces complement activation, but does not affect the release of granulocyte enzymes : a European multicentre study. Fosse E, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):320–7

Complete heparin-coated (CBAS) cardiopulmonary bypass and reduced systemic heparin dose; effects on coagulation and fibrinolysis. Ovrum E, et al. **Eur J Cardiothorac Surg** 1996;10(6):449–55

Reoperations after dacron patch aortoplasty with heparinized femoro-femoral bypass. Roth M, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):997–1000

Clinical effects of the heparin coated surface in cardiopulmonary bypass. Svenmarker S, et al. **Eur J Cardiothorac Surg** 1997 May;11(5):957–64

Clinical evaluation of Duraflo II heparin treated extracorporeal circulation circuits (2nd version). The European Working Group on heparin coated extracorporeal circulation circuits. Wildevuur CR, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):616–23; discussion 624–5

Reduction of retinal exudates in diabetic retinopathy after heparin-induced extracorporal LDL-precipitation (HELP). A case report. Janknecht P, et al. **Eur J Ophthalmol** 1996 Jul-Sep;6(3):340–2

Histamine in plasma and bronchoalveolar lavage fluid during cardiac surgery: comparison of a heparin-coated and a non-coated circuit. Lin AH, et al. **Inflamm Res** 1997 Mar; 46 Suppl 1:S75–6

Heparin-coated bypass circuits in cardiopulmonary bypass: improved biocompatibility or not. Levy M, et al. **Int J Cardiol** 1996 Apr 26;53 Suppl:S81–7 (30 ref.)

Novel 29 kDa heparin-binding lectin from human foetal brain. Basu S, et al. **Int J Dev Neurosci** 1997 Feb; 15(1):113–25

In vitro evaluation of heparinized Cuprophan hemodialysis membranes. Hinrichs WL, et al. **J Biomed Mater Res** 1997 Jun 15;35(4):443–50

The influence of a heparin-coated oxygenator during cardiopulmonary bypass on postoperative lung oxygenation capacity in pediatric patients with congenital heart anomalies. Watanabe H, et al. **J Card Surg** 1996 Nov-Dec; 11(6):396–401

Evaluation of a polyester collagen-coated heparin bonded vascular graft. Becquemin JP, et al. **J Cardiovasc Surg (Torino)** 1997 Feb;38(1):7–14

Effect of heparin-surface-modified poly(methyl methacrylate) intraocular lenses on the postoperative inflammation in an Asian population. Lai YK, et al. **J Cataract Refract Surg** 1996;22 Suppl 1:830–4

Decreased prostaglandin E2 synthesis by lens epithelial cells cultured on heparin-surface-modified poly(methyl methacrylate). Nishi O, et al. **J Cataract Refract Surg** 1996; 22 Suppl 1:859–62

Evaluation of the AVOXimeter: precision, long-term stability, linearity, and use without heparin. Bailey SR, et al. **J Clin Monit** 1997 May;13(3):191–8

Clinical outcome after coronary surgery with heparin-coated extracorporeal circuits for cardiopulmonary bypass. Baufreton C, et al. **Perfusion** 1996 Nov;11(6):437–43

Anticoagulation practices during neonatal extracorporeal membrane oxygenation: survey results. Graves DF, et al. **Perfusion** 1996 Nov;11(6):461–6

Effects of heparin coating on the expression of CD11b, CD11c and CD62L by leucocytes in extracorporeal circulation in vitro. Høgevold HE, et al. **Perfusion** 1997 Mar;12(1):9–20

Differences in blood activation related to roller/centrifugal pumps and heparin-coated/uncoated surfaces in a cardiopulmonary bypass model circuit. Moen O, et al. **Perfusion** 1996 Mar;11(2):113–23

Heterogeneity of unfractionated heparins studied in connection with species, source, and production processes. Bianchini P, et al. **Semin Thromb Hemost** 1997;23(1):3–10

[Biological monitoring and prevention of complications from antithrombotic agents] Samama MM, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1569–77 (28 ref.) (Eng. Abstr.) **(Fre)**

[BSE and heparin and gelatin preparations] Laubenthal H. **Anaesthesist** 1997 Mar;46(3):253–4 **(Ger)**

[A case of ASD with SLE treated with Carmeda BioActive surface circuit in cardiopulmonary bypass system] Toda R, et al. **Kyobu Geka** 1996 May;49(5):389–91 (Eng. Abstr.) **(Jpn)**

[Application of heparin-coated percutaneous cardiopulmonary support system to elective cardiac and aortic operations] Watanabe SI, et al. **Kyobu Geka** 1997 May;50(5):362–7 (Eng. Abstr.) **(Jpn)**

[Heparin affinity high-performance liquid chromatography as an alternative to bioassay of CS23 mutein of recombinant human basic fibroblast growth factor] Hiroshima T, et al. **Yakugaku Zasshi** 1996 Dec;116(12):951–60 (Eng. Abstr.) **(Jpn)**

ADMINISTRATION & DOSAGE

A multicentre, double-blind, randomized study to compare the safety and efficacy of once-daily ORG 10172 and twice-daily low-dose heparin in preventing deep-vein thrombosis in patients with acute ischaemic stroke. Dumas R, et al. **Age Ageing** 1994 Nov;23(6):512–6

Rapid heparin anticoagulation: use of a weight-based nomogram. Schaefer DC, et al. **Am Fam Physician** 1996 Dec;54(8):2517–21 (14 ref.)

Local intracoronary heparin delivery with a microporous balloon catheter. Thomas CN, et al. **Am Heart J** 1996 Nov; 132(5):969–72

Standard versus low-dose weight-adjusted heparin in patients treated with the platelet glycoprotein IIb/IIIa receptor antibody fragment abciximab (c7E3 Fab) during percutaneous coronary revascularization. PROLOG Investigators. Lincoff AM, et al. **Am J Cardiol** 1997 Feb 1;79(3):286–91

Low-dose heparin for routine coronary angioplasty and stenting. Vainer J, et al. **Am J Cardiol** 1996 Oct 15; 78(8):964–6

Effect of syringe size on bruising following subcutaneous heparin injection. Hadley SA, et al. **Am J Crit Care** 1996 Jul;5(4):271–6

Weight-based protocol for improving heparin therapy. Nemeth JS, et al. **Am J Health Syst Pharm** 1996 May 15; 53(10):1164–6

Randomized trial of aspirin versus aspirin and heparin in pregnant women with the antiphospholipid syndrome] Cohen H. **Ann Med Interne (Paris)** 1996 Sep;147 Suppl

1:44
Low heparinization with heparin-bonded bypass circuits: is it a safe strategy? Bannan S, et al. **Ann Thorac Surg** 1997 Mar;63(3):663-8
Cardiopulmonary bypass with heparin-coated circuits and reduced systemic anticoagulation. Kuitunen AH, et al. **Ann Thorac Surg** 1997 Feb;63(2):438-44
Heparin-bonded circuits decrease myocardial ischemic damage: an experimental study. Lazar HL, et al. **Ann Thorac Surg** 1997 Jun;63(6):1701-5
Endothelin-1 and neutrophil activation during heparin-coated cardiopulmonary bypass. Lundblad R, et al. **Ann Thorac Surg** 1997 May;63(5):1361-7
Centrifugal pump and heparin coating improves cardiopulmonary bypass biocompatibility. Moen O, et al. **Ann Thorac Surg** 1996 Oct;62(4):1134-40
Heparinized cardiopulmonary bypass and full heparin dose marginally improve clinical performance. Ovrum E, et al. **Ann Thorac Surg** 1996 Oct;62(4):1128-33
Antithrombin III, leukocyte activation, and low systemic heparinization [letter; comment] Ranucci M. **Ann Thorac Surg** 1997 Apr;63(4):1211-2. Comment on: Ann Thorac Surg 1995 Dec;60(6):1755-61.
Effect of heparin loading during congenital heart operation on thrombin generation and blood loss. Turner-Gomes SO, et al. **Ann Thorac Surg** 1997 Feb;63(2):482-8
Low-dose heparin thromboembolism prophylaxis [letter] Hughes KM, et al. **Arch Surg** 1997 Jun;132(6):681-2
Low-dose heparin thromboembolism prophylaxis. Owings JT, et al. **Arch Surg** 1996 Oct;131(10):1069-73 (46 ref.)
Persistent thrombin generation during heparin therapy in patients with acute coronary syndromes. Merlini PA, et al. **Arterioscler Thromb Vasc Biol** 1997 Jul;17(7):1325-30
Clinical heparin coated cardiopulmonary bypass: reduction of systemic heparin requirements for redo cardiac surgery. Ladowski JS, et al. **ASAIO J** 1996 Jan-Feb;42(1):34-6
Inhibition of fibro-intimal hyperplasia in a polytetrafluoroethylene vascular graft with standard heparin and low molecular weight heparin. Taylor A, et al. **Aust N Z J Surg** 1996 Nov;66(11):764-7
Potentiation of the growth-stimulatory effects of aFGF by heparin in Rama 27 fibroblasts. Chen HL, et al. **Biochem Soc Trans** 1996 Aug;24(3):358S
Heparin-like functionalized polymer surfaces: discrimination between catalytic and adsorption processes during the course of thrombin inhibition. Charef S, et al. **Biomaterials** 1996 May;17(9):903-12
Development of chitosan/polyethylene vinyl acetate co-matrix: controlled release of aspirin-heparin for preventing cardiovascular thrombosis. Vasudev SC, et al. **Biomaterials** 1997 Mar;18(5):375-81
Treatment of hepatic venocclusive disease with recombinant human tissue plasminogen activator and heparin in 42 marrow transplant patients. Bearman SI, et al. **Blood** 1997 Mar 1;89(5):1501-6
Optimal duration of oral anticoagulant therapy following deep vein thrombosis of lower limbs. Bounameaux H, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):507-14 (37 ref.)
Anticoagulant effects and tissue factor pathway inhibitor after intrapulmonary low-molecular-weight heparin. Harenberg J, et al. **Blood Coagul Fibrinolysis** 1996 Jun;7(4):477-83
Treatment of pregnant women with recurrent miscarriage associated with phospholipid antibodies. During pregnancy, heparin should be stopped during labour and then restarted soon after delivery [letter; comment] Piette JC, et al. **BMJ** 1997 Aug 9;315(7104):372-3; discussion 373 . Comment on: BMJ 1997 Jan 25;314(7076):253-7.
Evaluation of an intravenous heparin nomogram in a coronary care unit. Paradiso-Hardy FL, et al. **Can J Cardiol** 1996 Sep;12(9):802-8
Some "tried and true" treatments challenged during Royal College meeting. Harrison P. **Can Med Assoc J** 1996 Dec 15;155(12):1725-7
Infiltrator Angioplasty Balloon Catheter: a device for combined angioplasty and intramural site-specific treatment. Barath P, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):333-41
Site-specific intravascular administration of drugs: history of a method applicable in humans. Camenzind E, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):342-7 (39 ref.)
Cocktail attenuation of rotational ablation flow effects (CARAFE) study: pilot. Cohen BM, et al. **Cathet Cardiovasc Diagn** 1996;Suppl 3:69-72
Local delivery of heparin to balloon angioplasty sites with a new angiotherapy catheter: pharmacokinetics and effect on platelet deposition in the porcine model. Fram DB, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):275-86
Venous activated clotting time after intra-arterial heparin: effect of site of administration and timing of sampling. Kerensky RA, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):151-3
When we "act" on ACT levels: activated clotting time measurements to guide heparin administration during and after interventional procedures [editorial] Klein LW, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):154-7
Localized delivery of heparin to angioplasty sites with iontophoresis. Mitchel JF, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):315-23
Percutaneous transluminal coronary angioplasty: comparison of arterial vs. venous activated clotting time. Pesola GR, et al. **Cathet Cardiovasc Diagn** 1996 Feb;37(2):140-4
Predictors of arterial thrombosis after diagnostic cardiac catheterization in infants and children randomized to two heparin dosages. Saxena A, et al. **Cathet Cardiovasc Diagn** 1997 Aug;41(4):400-3
Modified heparin-bonded catheter for cannulation of the coronary sinus from the femoral vein. Winters KJ, et al. **Cathet Cardiovasc Diagn** 1996 Dec;39(4):433-7
Is direct collection of pleural fluid into a heparinized syringe important for determination of pleural pH? A brief report. Goldstein LS, et al. **Chest** 1997 Sep;112(3):707-8
Site-specific intracoronary heparin delivery in humans after balloon angioplasty. A radioisotopic assessment of regional pharmacokinetics. Camenzind E, et al. **Circulation** 1997 Jul 1;96(1):154-65
Effects of low-dose heparin infusion on arterial endothelin-1 release in humans. Piatti PM, et al. **Circulation** 1996 Dec 1;94(11):2703-7
A randomized animal study evaluating the efficacies of locally delivered heparin and urokinase for reducing in-stent restenosis. Kornowski R, et al. **Coron Artery Dis** 1997 May;8(5):293-8
An evaluation of empiric vs. nomogram-based dosing of heparin in an intensive care unit [see comments] Brown G, et al. **Crit Care Med** 1997 Sep;25(9):1534-8. Comment in: Crit Care Med 1997 Sep;25(9):1451-2.
Weight-based heparin dosing: maybe it's just a matter of time [editorial; comment] Susla GM. **Crit Care Med** 1997 Sep; 25(9):1451-2. Comment on: Crit Care Med 1997 Sep;25(9):1534-8.
Fatty acids mediate the acute extrahepatic effects of insulin on hepatic glucose production in humans. Lewis GF, et al. **Diabetes** 1997 Jul;46(7):1111-9
Unresolved issues in the prevention of venous thromboembolism. Baglin T. **Drugs** 1996;52 Suppl 7:1-6; discussion 6-7 (30 ref.)
A randomized trial of a fixed high dose vs a weight-adjusted low dose of intravenous heparin during coronary angioplasty. Boccara A, et al. **Eur Heart J** 1997 Apr; 18(4):631-5
Final results of a phase III clinical trial on adjuvant intraportal infusion with heparin and 5-fluorouracil (5-FU) in resectable colon cancer (EORTC GITCCG 1983-1987). European Organization for Research and Treatment of Cancer. Gastrointestinal Tract Cancer Cooperative Group. Nitti D, et al. **Eur J Cancer** 1997 Jul;33(8):1209-15
Aprotinin and deep hypothermic circulatory arrest: there are no benefits even when appropriate amounts of heparin are given. Parolari A, et al. **Eur J Cardiothorac Surg** 1997 Jan; 11(1):149-56
A randomized clinical trial of oxidized regenerated cellulose adhesion barrier (Interceed, TC7) alone or in combination with heparin. Reid RL, et al. **Fertil Steril** 1997 Jan; 67(1):23-9
Application of HELP in nonarteritic anterior ischemic optic neuropathy: a prospective, randomized, controlled study. Haas A, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Jan; 235(1):14-9
Intravascular ultrasound in patients with acute pulmonary embolism after treatment with intravenous urokinase and high-dose heparin. Görge G, et al. **Heart** 1997 Jan; 77(1):73-7
Safety of low dose heparin in elective coronary angioplasty. Koch KT, et al. **Heart** 1997 Jun;77(6):517-22
Induction of thrombolysis and prevention of thrombus formation by local drug delivery with a double-occlusion balloon catheter. Tomaru T, et al. **Heart Vessels** 1996; 11(3):123-32
Local treatment with an antithrombotic drug reduces thrombus size in coronary and peripheral thrombosed arteries. Tomaru T, et al. **Heart Vessels** 1996;11(3):133-44
Internal jugular vein thrombosis: a late complication of ovarian hyperstimulation syndrome despite mini-dose heparin prophylaxis [see comments] Hignett M, et al. **Hum Reprod** 1995 Dec;10(12):3121-3. Comment in: Hum Reprod 1996 Jun;11(6):1358-9.
Comparison of clinical outcome of fixed-dose subcutaneous low molecular weight heparin (tinzaparin) with conventional heparin in unstable angina: a pilot study. Suvarna TT, et al. **Indian Heart J** 1997 Mar-Apr; 49(2):159-62
Optimal dose and duration of heparin for inhibition of intimal hyperplasia. Ao PY, et al. **Int Angiol** 1997 Jun;16(2):94-100
Enhanced vascularization in a microporous polyurethane graft impregnated with basic fibroblast growth factor and heparin. Doi K, et al. **J Biomed Mater Res** 1997 Mar 5; 34(3):361-70
Enhanced blood conservation in primary coronary artery bypass surgery using heparin-bonded circuits with lower anticoagulation. Aldea GS, et al. **J Card Surg** 1996 Mar-Apr;11(2):85-95
Enhanced blood conservation and improved clinical outcome after valve surgery using heparin-bonded cardiopulmonary bypass circuits. Shapira OM, et al. **J Card Surg** 1996 Sep-Oct;11(5):307-17
Perioperative course and recovery after heparin-coated cardiopulmonary bypass: low-dose versus high-dose heparin management. Weiss BM, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):464-70
Heparin eyedrops to prevent posterior capsule opacification. Mastropasqua L, et al. **J Cataract Refract Surg** 1997 Apr; 23(3):440-6
Treatment of hypercholesterolemia with heparin-induced extracorporeal low-density lipoprotein precipitation (HELP). Lees RS, et al. **J Clin Apheresis** 1996;11(3):132-7 (37 ref.)
Proper management of thromboembolic disease [letter] Spartalis MA. **J Natl Med Assoc** 1996 Mar;88(3):137; 150; 157
Reduction of brain injury using heparin to inhibit leukocyte accumulation in a rat model of transient focal cerebral ischemia. II. Dose-response effect and the therapeutic window. Yanaka K, et al. **J Neurosurg** 1996 Dec; 85(6):1108-12
Avoiding microvenous thrombosis [letter; comment] Simone C, et al. **J Oral Maxillofac Surg** 1997 Apr;55(4):434. Comment on: J Oral Maxillofac Surg 1996 Sep;54(9):1097-102.
Multiple episodes of thrombosis with biventricular support devices with inadequate anticoagulation and evidence of accelerated intravascular coagulation. Despotis GJ, et al. **J Thorac Cardiovasc Surg** 1997 Feb;113(2):419-22
Admixture of heparin with urokinase to decrease thrombolysis time and urokinase dose in polytetrafluoroethylene dialysis graft recanalization. Harrell DS, et al. **J Vasc Interv Radiol** 1996 Mar-Apr; 7(2):193-7
Local delivery of heparin with balloon angioplasty: results of a prospective randomized trial. Sheley RC, et al. **J Vasc Interv Radiol** 1996 Nov-Dec;7(6):853-8
Plasmodium falciparum malaria transmitted in hospital through heparin locks [see comments] Abulrahi HA, et al. **Lancet** 1997 Jan 4;349(9044):23-5. Comment in: Lancet 1997 Feb 22;349(9051):574.
Platelet glycoprotein IIb/IIIa receptor blockade and low-dose heparin during percutaneous coronary revascularization. The EPILOG Investigators [see comments] **N Engl J Med** 1997 Jun 12;336(24):1689-96. Comment in: N Engl J Med 1997 Jun 12;336(24):1748-9.
Preventing coronary restenosis and complications [editorial; comment] Holmes DR Jr. **N Engl J Med** 1997 Jun 12; 336(24):1748-9. Comment on: N Engl J Med 1997 Jun 12;336(24):1689-96. Comment on: N Engl J Med 1997 Jun 12;336(24):1697-703.
Prophylaxis against venous thromboembolism after major trauma [letter; comment] Osler T, et al. **N Engl J Med** 1997 Feb 20;336(8):586; discussion 586-7. Comment on: N Engl J Med 1996 Sep 5;335(10):701-7.
Heparin versus hirudin for acute coronary syndromes [letter; comment] Schmaier AH. **N Engl J Med** 1997 Mar 6; 336(10):730; discussion 730-1. Comment on: N Engl J Med 1996 Sep 12;335(11):775-82.
Topical heparin in the treatment of ligneous conjunctivitis. De Cock R, et al. **Ophthalmology** 1995 Nov;102(11):1654-9
The activated clotting time loading dose response ratio (ACTLORR) as an indicator of heparin demand during cardiopulmonary bypass. Reece IJ, et al. **Perfusion** 1996 Mar;11(2):125-30
Comparison of a weight-based heparin nomogram with traditional heparin dosing to achieve therapeutic anticoagulation. Shalansky KF, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1076-84
Characterization of a commercial liposome spray. Rades T, et al. **Pharmazie** 1997 Jan;52(1):44-50
Heparin and antithrombotic efficacy [letter; comment] Wieslander JB. **Plast Reconstr Surg** 1997 Jul;100(1):280-1 . Comment on: Plast Reconstr Surg 1995 Apr;95(5):894-900.
Heparin therapy in the Chinese--lower doses are required. Yu CM, et al. **QJM** 1997 Aug;90(8):535-43
Tissue factor pathway inhibitor (TFPI) antigen plasma level in patients with interstitial lung disease before and after heparin administration. Cella G, et al. **Semin Thromb Hemost** 1997;23(1):45-9
Dosage, anticoagulant, and antithrombotic effects of heparin and low-molecular-weight heparin in the treatment of deep vein thrombosis. Harenberg J, et al. **Semin Thromb Hemost** 1997;23(1):83-90
Heparin in patients with venous thromboembolism and contraindications to oral anticoagulant therapy. Monreal M. **Semin Thromb Hemost** 1997;23(1):69-75 (47 ref.)
Pericardiectomy for constrictive pericarditis using a percutaneous heparin-coated cardiopulmonary support system. Saito A, et al. **Thorac Cardiovasc Surg** 1996 Dec; 44(6):311-2
Conjunctive administration of intravenous heparin attenuates cross-linked fibrin degradation in patients treated with streptokinase. Galvani M, et al. **Thromb Haemost** 1996 Sep; 76(3):339-43
A 6-month venographic follow-up in 164 patients with acute deep vein thrombosis. Holmström M, et al. **Thromb Haemost** 1997 Aug;78(2):803-7
Effects of heparin therapy on fibrinolysis in patients with pulmonary embolism. Minnema MC, et al. **Thromb Haemost** 1997 Jun;77(6):1164-7
An evaluation and improvement program for inpatient anticoagulant control. Phillips WS, et al. **Thromb Haemost** 1997 Feb;77(2):283-8
A comparison of thromboelastography with heparinase or protamine sulfate added in vitro during heparinized cardiopulmonary bypass. Spiess BD, et al. **Thromb Haemost** 1997 Aug;78(2):820-6
Effect of aspirin-dipyridamole and heparin and their combination on venous thrombosis in hypercoagulable or thrombotic animals. Iomhair MM, et al. **Thromb Res** 1996

Jun 15;82(6):479–83

Variable influence of heparin and contrast agents on platelet function as assessed by the in vitro bleeding time. Melton LG, et al. **Thromb Res** 1996 Aug 1;83(3):265–77

Activation of coagulation and fibrinolysis despite heparinization during successful elective coronary angioplasty. Peltonen S, et al. **Thromb Res** 1996 Jun 15; 82(6):459–68

Improving use of heparin in acute deep venous thrombosis. Gold JA, et al. **Wis Med J** 1996 May;95(5):311–2

[Perioperative prevention of thromboembolism in ENT medicine] Wilhelm T, et al. **HNO** 1996 Jan;44(1):31–2 **(Ger)**

[Long-term anticoagulation therapy in cervical ribs?] Hiller E. **Internist (Berl)** 1996 Dec;37(12):1272 **(Ger)**

[Comparative praxis study of the effectiveness of heparin in xerophthalmia] Roth HW. **Klin Monatsbl Augenheilkd** 1997 Feb;210(2 Suppl):2–5 **(Ger)**

[H.E.L.P. therapy (heparin-induced extracorporeal LDL precipitation) in sudden deafness] Walch C, et al. **Laryngorhinootologie** 1996 Nov;75(11):641–5 (Eng. Abstr.) **(Ger)**

[Health care economics evaluation of inpatient treatment of venous thrombosis with unfractionated heparin versus subcutaneous low molecular weight heparin at home] Osterkorn D, et al. **Med Klin** 1996 Sep 15;91(9):607–9 (Eng. Abstr.) **(Ger)**

[An unusual combination of carotid artery-cavernous sinus fistula and sinus thrombosis. Successful therapy with anticoagulation] Yousry TA, et al. **Nervenarzt** 1997 Feb; 68(2):135–8 (Eng. Abstr.) **(Ger)**

[Heparin-induced extracorporeal LDL precipitation (HELP) in therapy refractory hypercholesterolemia and coronary heart disease: effect on clinical and morphological regression of coronary sclerosis] Schuff-Werner P. **Z Kardiol** 1997;86 Suppl 1:57–64 (30 ref.) (Eng. Abstr.) **(Ger)**

[Comparison of thrombolytic therapy and direct percutaneous transluminal coronary angioplasty for acute myocardial infarction: prospective multicenter trial at 16 clinical centers in Ibaraki prefecture TUGMI. Tsukuba University Group for Myocardial Infarction] Noguchi Y, et al. **J Cardiol** 1996 Mar;27(3):111–20 (Eng. Abstr.) **(Jpn)**

[Anticoagulant therapy and obstetric management in a pregnant patient with mechanical prosthetic valve] Kimura K, et al. **Kyobu Geka** 1996 Sep;49(10):821–6 (Eng. Abstr.) **(Jpn)**

[Effect of heparin-supplemented iopamidol on the blood coagulation] Kawai J, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Oct; 56(12):874–6 (Eng. Abstr.) **(Jpn)**

[Case of diabetic nephropathy with improvement in marked systemic edema following continuous subcutaneous infusion of heparin] Nishioka K, et al. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):678–80 **(Jpn)**

[Low doses of rtPA administered as a bolus in treatment of clinically acute massive pulmonary embolism] Tomkowski W, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 2:161–5 (Eng. Abstr.) **(Pol)**

[Very low doses of tissue plasminogen activator in treatment of acute massive pulmonary embolism] Tomkowski W, et al. **Pneumonol Alergol Pol** 1996;64 Suppl 2:207–10 (Eng. Abstr.) **(Pol)**

[The influence of heparin on histamine level in plasma during the early reaction phase of asthma] Antczak-Marczak M, et al. **Pol Arch Med Wewn** 1997 Jan;97(1):7–14 (Eng. Abstr.) **(Pol)**

[Changes in the functional status of the hemostatic system with the administration of heparin combined with aspirin to animals with experimental diabetes] Liapina LA, et al. **Izv Akad Nauk Ser Biol** 1996 Sep–Oct;(5):624–7 (Eng. Abstr.) **(Rus)**

[The use of low heparin doses for the prevention of postoperative thrombosis of the deep veins and of pulmonary artery thromboembolism] Shorokh GP, et al. **Klin Khir** 1994;(12):48–50 (Eng. Abstr.) **(Rus)**

[Changes in hemostasis and vagal tonus in healthy individuals and patients with facial neuropathy by micro-dose heparin stimulation of nasal receptors] Uryvaev IV, et al. **Vestn Ross Akad Med Nauk** 1997;(8):22–3 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Immunopathological events of adverse cutaneous reactions to coumarin and heparin. Hermes B, et al. **Acta Derm Venereol** 1997 Jan;77(1):35–8

Hemorrhagic events during therapy with recombinant tissue plasminogen activator, heparin, and aspirin for unstable angina (Thrombolysis in Myocardial Ischemia, phase IIIB trial). Bovill EG, et al. **Am J Cardiol** 1997 Feb 15; 79(4):391–6

Hemorrhagic complications of intravenous heparin use. Juergens CP, et al. **Am J Cardiol** 1997 Jul 15;80(2):150–4

Deep vein thrombosis, pulmonary embolism, and the white clot syndrome. Melanson SW, et al. **Am J Emerg Med** 1996 Oct;14(6):558–60

Heparin-induced thrombocytopenia with thrombosis: incidence, analysis of risk factors, and clinical outcomes in 108 consecutive patients treated at a single institution. Nand S, et al. **Am J Hematol** 1997 Sep;56(1):12–6

Pseudopulmonary embolism: acute respiratory distress in the syndrome of heparin-induced thrombocytopenia. Popov D, et al. **Am J Kidney Dis** 1997 Mar;29(3):449–52 (12 ref.)

A 14-year study of heparin-induced thrombocytopenia. Warkentin TE, et al. **Am J Med** 1996 Nov;101(5):502–7

Risk factors for bleeding in major abdominal surgery using heparin thromboprophylaxis. Cohen AT, et al. **Am J Surg** 1997 Jul;174(1):1–5

Heparin-related thrombosis despite normal platelet counts in vascular surgery. Hach-Wunderle V, et al. **Am J Surg** 1997 Feb;173(2):117–9

Serious spinal cord injury due to haematomyelia caused by spinal anaesthesia in a patient treated with low-dose heparin [see comments] Greaves JD. **Anaesthesia** 1997 Feb; 52(2):150–4. Comment in: Anaesthesia 1997 Jul;52(7):716.

Heparin prophylaxis and central neural blocking techniques [letter; comment] Knowles P. **Anaesthesia** 1997 Jul; 52(7):716. Comment on: Anaesthesia 1997 Feb;52(2):150–4.

Spinal cord injury due to haematomyelia [letter; comment] Tan J, et al. **Anaesthesia** 1997 Jul;52(7):716. Comment on: Anaesthesia 1997 Feb;52(2):150–4.

Use of low molecular weight heparin in patients with heparin-induced thrombocytopenia undergoing carotid endarterectomy. Gottlieb A, et al. **Anesthesiology** 1996 Sep; 85(3):678–81

Thrombosis during the use of the heparinoid Organon 10172 in a patient with heparin-induced thrombocytopenia. Insler SR, et al. **Anesthesiology** 1997 Feb;86(2):495–8

Heparin-associated thrombocytopenia and thrombosis: implications for perioperative management. Slaughter TF, et al. **Anesthesiology** 1997 Sep;87(3):667–75 (93 ref.)

Heparin-associated refractory bronchospasm [letter] Savas MC, et al. **Ann Pharmacother** 1997 Feb;31(2):253

Lower extremity amputation secondary to heparin-associated thrombocytopenia with thrombosis. Diamant DS. **Arch Phys Med Rehabil** 1996 Oct;77(10):1090–2

Management of acute vascular graft thrombosis associated with HIT syndrome: a case report. Wilson M, et al. **Aust N Z J Surg** 1997 May;67(5):302–3

Fc gamma RIIA H/R 131 polymorphism, subclass-specific IgG anti-heparin/platelet factor 4 antibodies and clinical course in patients with heparin-induced thrombocytopenia and thrombosis. Arepally G, et al. **Blood** 1997 Jan 15; 89(2):370–5

A dinucleotide deletion in exon 4 of the PlA2 allelic form of glycoprotein IIIa: implications for the correlation of serologic versus genotypic analysis of human platelet alloantigens. Skogen B, et al. **Blood** 1996 Nov 15; 88(10):3831–6

Novastan anticoagulation during renal stent implant in a patient with heparin-induced thrombocytopenia. Lewis BE, et al. **Blood Coagul Fibrinolysis** 1997 Jan;8(1):54–8

Early onset of immunological heparin-induced thrombocytopenia in acute myocardial infarction. Suzuki S, et al. **Blood Coagul Fibrinolysis** 1997 Jan;8(1):13–5

Heparin induced thrombocytopenia causing life-threatening postoperative haemorrhage. Rice P, et al. **Br J Clin Pract** 1996 Oct–Nov;50(7):404–5

Heparin-induced thrombocytopenia and thrombosis: a prospective analysis of the incidence in patients with heart and cerebrovascular diseases. Kappers-Klunne MC, et al. **Br J Haematol** 1997 Mar;96(3):442–6

Tests for heparin-induced thrombocytopenia in primary antiphospholipid syndrome [letter] Lasne D, et al. **Br J Haematol** 1997 Jun;97(4):939

A diagnostic test for heparin-induced thrombocytopenia: detection of platelet microparticles using flow cytometry. Lee DH, et al. **Br J Haematol** 1996 Dec;95(4):724–31

Report of successful use of argatroban as an alternative anticoagulant during coronary stent implantation in a patient with heparin-induced thrombocytopenia and thrombosis syndrome. Lewis BE, et al. **Cathet Cardiovasc Diagn** 1996 Jun;38(2):206–9

Use of anti-X a activity as a marker for heparin-induced bleeding in patients with APTT > 180 s. Haliassos A, et al. **Clin Chem** 1997 Sep;43(9):1781–2

The use of low dose Orgaran in heparin-induced thrombocytopenia associated with in vitro platelet aggregation at higher Orgaran concentrations. Hill GR, et al. **Clin Lab Haematol** 1997 Jun;19(2):155–7

Tolerance to intravenous administration of heparin and heparinoid in a patient with delayed-type hypersensitivity to heparins and heparinoids. Boehncke WH, et al. **Contact Dermatitis** 1996 Aug;35(2):73–5

Cutaneous heparin necrosis in a patient with heterozygous protein S deficiency. Libow LF, et al. **Cutis** 1997 May; 59(5):242–4

Cardiopulmonary bypass leads to a preferential loss of activated platelets. A flow cytometric assay of platelet surface antigens. Wahba A, et al. **Eur J Cardiothorac Surg** 1996;10(9):768–73

Fatal cerebral venous sinus thrombosis in heparin-induced thrombotic thrombocytopenia. Meyer-Lindenberg A, et al. **Eur Neurol** 1997;37(3):191–2

Can the haemorrhagic component of heparin be identified? Or an attempt at clean thinking on a dirty drug [editorial] Hemker HC, et al. **Haemostasis** 1996 May–Jun;26(3):117–26 (50 ref.)

Treatment of the heparin-induced thrombosis-thrombocytopenia syndrome by very low dose streptokinase. Ferrari E, et al. **Heart** 1996 Aug;76(2):185–6

Ancrod: the use of snake venom in the treatment of patients with heparin-induced thrombocytopenia and thrombosis undergoing coronary artery bypass grafting: nursing management. Lathan LO, et al. **Heart Lung** 1996 Nov–Dec; 25(6):451–60; quiz 461–2 (27 ref.)

Severe arterial and venous thrombosis in a patient with heparin-induced thrombocytopenia type II [letter] Janssens U, et al. **Intensive Care Med** 1997 May;23(5):595–6

Acute limb ischemia and heparin-induced thrombocytopenia: the value of echocardiography in eliminating a cardiac source of arterial emboli. Vignon P, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):344–7

Heparin use in continuous renal replacement procedures: the struggle between filter coagulation and patient hemorrhage. van de Wetering J, et al. **J Am Soc Nephrol** 1996 Jan; 7(1):145–50

Con: heparin is not the best anticoagulant for cardiopulmonary bypass. Fitch JC. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):819–21

Anticoagulation for cardiopulmonary bypass of a patient with "heparin allergy". Ochroch E, et al. **J Cardiothorac Vasc Anesth** 1997 Aug;11(5):622–4

Neuraxial anesthesia is contraindicated in patients undergoing heparinization for surgery. Pro: neuraxial anesthesia should not be used in patients undergoing heparinization for surgery. Ralley FE. **J Cardiothorac Vasc Anesth** 1996 Dec; 10(7):957–60

Orgaran (Org 10172) for cardiopulmonary bypass in heparin-induced thrombocytopenia: role of adjunctive plasmapheresis [letter; comment] Schmahl KS, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):262–3. Comment on: J Cardiothorac Vasc Anesth 1996 Jun;10(4):521–30.

Heparin-induced thrombocytopenia [see comments] Shorten GD, et al. **J Cardiothorac Vasc Anesth** 1996 Jun; 10(4):521–30 (167 ref.). Comment in: J Cardiothorac Vasc Anesth 1997 Apr;11(2):262–3. Comment in: J Cardiothorac Vasc Anesth 1997 Jun;11(4):538–9.

Hematologic changes in a patient with heparin-induced thrombocytopenia who underwent cardiopulmonary bypass after ancrod defibrinogenation. Spiess BD, et al. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):918–21

Case 5—1996. Thrombosis after the use of a heparin-coated cardiopulmonary bypass circuit in a patient with heparin-induced thrombocytopenia [clinical conference] Van Dyck MJ, et al. **J Cardiothorac Vasc Anesth** 1996 Oct; 10(6):809–15

Life-threatening retroperitoneal hematoma caused by anticoagulant therapy for myocardial infarction after SWL. Katz R, et al. **J Endourol** 1997 Feb;11(1):23–5

Type IV hypersensitivity to subcutaneous heparin: a new case. Gonzalo Garijo MA, et al. **J Investig Allergol Clin Immunol** 1996 Nov–Dec; 6(6):388–91

Heparin, beta2-glycoprotein I, and thrombocytopenia [letter; comment] Cheng HM. **J Lab Clin Med** 1997 Feb; 129(2):266–7. Comment on: J Lab Clin Med 1996 May;127(5):418–9.

Heparin-induced thrombocytopenia: what the serologists have taught us [editorial; comment] Kelton JG, et al. **J Lab Clin Med** 1996 Oct;128(4):346–8. Comment on: J Lab Clin Med 1996 Oct;128(4):376–83.

Heparin-associated thrombocytopenia and thrombosis as the cause of a fatal thrombus on extracorporeal membrane oxygenation. Butler TJ, et al. **J Pediatr Surg** 1997 May; 32(5):768–71

Heparin-associated intrathoracic pseudotumor. John LC, et al. **J Thorac Cardiovasc Surg** 1997 Jun;113(6):1115–6

Treatment of heparin-induced thrombocytopenia [letter] Peters FP. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):517–8

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Członkowska A, et al. **Lancet** 1997 Aug 9;350(9075):441–2; discussion 443–4

Heparin-induced osteoporosis in pregnancy. Nelson-Piercy C. **Lupus** 1997;6(6):500–4 (37 ref.)

Heparin-induced skin necrosis [letter; comment] Carter RL. **N Engl J Med** 1997 Feb 20;336(8):589. Comment on: N Engl J Med 1996 Sep 5;335(10):715.

Heparin-induced skin necrosis [letter; comment] Kumar PD. **N Engl J Med** 1997 Feb 20;336(8):588–9; discussion 589. Comment on: N Engl J Med 1996 Sep 5;335(10):715.

Heparin-induced skin necrosis [letter; comment] McCloskey RV. **N Engl J Med** 1997 Feb 20;336(8):588; discussion 589 . Comment on: N Engl J Med 1996 Sep 5;335(10):715.

Heparin-induced skin necrosis [letter; comment] Schechter FG. **N Engl J Med** 1997 Feb 20;336(8):589. Comment on: N Engl J Med 1996 Sep 5;335(10):715.

Atrial arrhythmias after cardiac surgery [letter] Walker WE. **N Engl J Med** 1997 Sep 18;337(12):861

Heparin-induced thrombocytopenia—background and implications for haemodialysis [editorial] Finazzi G, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2120–2 (15 ref.)

Heparin-associated thrombocytopenia during continuous venovenous hemofiltration [letter] Berlot G, et al. **Nephron** 1996;74(1):241–2

Hemorrhagic infarct [letter; comment] Chamorro A. **Neurology** 1997 Jan;48(1):295–6. Comment on: Neurology 1996 Feb;46(2):341–5.

Imputability of heparin in heparin induced thrombocytopenia: a 10 year experience of the Centre Regional de Pharmacovigilance of Reims-Champagne Ardenne. Nguyen P, et al. **Nouv Rev Fr Hematol** 1995;

37(6):307-12
Epidural hematoma after epidural anesthesia in a patient with peripheral vascular disease. Case report. Martínez-Pallí G, et al. **Reg Anesth** 1996 Jul-Aug;21(4):342-6
Absence of heparin interference in the measurement of aspartate aminotransferase activity with the Ektachem AST "visible" slides [letter] Duvillard L, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):191-2
Anticoagulation in patients with heparin-induced thrombocytopenia type II. Harenberg J, et al. **Semin Thromb Hemost** 1997;23(2):189-96
Anticoagulation with Novastan (argatroban) in patients with heparin-induced thrombocytopenia and heparin-induced thrombocytopenia and thrombosis syndrome. Lewis BE, et al. **Semin Thromb Hemost** 1997;23(2):197-202 (35 ref.)
Treatment of heparin-induced thrombocytopenia and thrombosis. Green RM. **Semin Vasc Surg** 1996 Dec; 9(4):292-5 (15 ref.)
Heparin-induced thrombocytopenia: pathophysiology. Kibbe MR, et al. **Semin Vasc Surg** 1996 Dec;9(4):284-91 (58 ref.)
Ischemic cerebral infarction after rt-PA and heparin therapy for acute myocardial infarction. The TIMI-II pilot and randomized clinical trial combined experience. Sloan MA, et al. **Stroke** 1997 Jun;28(6):1107-14
Diagnosis of heparin-induced thrombocytopenia in the vascular surgery patient. Jackson MR, et al. **Surgery** 1997 Apr;121(4):419-24
The pathogenesis of the antiphospholipid syndrome: a hypothesis based on parallelisms with heparin-induced thrombocytopenia [see comments] Arnout J. **Thromb Haemost** 1996 Apr;75(4):536-41 (93 ref.). Comment in: Thromb Haemost 1996 Nov;76(5):817-8.
Heparin-induced thrombocytopenia: discrepancy between the presence of IgG cross-reacting in vitro with fraxiparine and its successful clinical use [letter] Luzzatto G, et al. **Thromb Haemost** 1996 Jan;75(1):211-2
Plasma levels of soluble Fc gamma receptors II (sCD32) and III (sCD16) in patients with heparin-induced thrombocytopenia [letter] Saffroy R, et al. **Thromb Haemost** 1997 Aug;78(2):970-1
Warfarin and heparin-induced skin necrosis and the purple toe syndrome: infrequent complications of anticoagulant treatment. Sallah S, et al. **Thromb Haemost** 1997 Aug; 78(2):785-90 (96 ref.)
Antibody-mediated thrombosis. Vermylen J, et al. **Thromb Haemost** 1997 Jul;78(1):420-6 (73 ref.)
Risk factors for bleeding during treatment of acute venous thromboembolism. Wester JP, et al. **Thromb Haemost** 1996 Nov;76(5):682-8
Assays for heparin-induced thrombocytopenia. Griffiths E, et al. **Transfus Med** 1997 Mar;7(1):1-11 (54 ref.)
Heparin-induced thrombocytopenia: IgG-mediated platelet activation, platelet microparticle generation, and altered procoagulant/anticoagulant balance in the pathogenesis of thrombosis and venous limb gangrene complicating heparin-induced thrombocytopenia. Warkentin TE. **Transfus Med Rev** 1996 Oct;10(4):249-58 (41 ref.)
Thromboembolic complications in a patient with heparin-induced thrombocytopenia (HIT) showing cross-reactivity to a low molecular weight heparin-treatment with Org 10172 (Lomoparan). Muhm M, et al. **Wien Klin Wochenschr** 1997 Feb 28;109(4):128-31
Anticoagulation with r-hirudin in regular haemodialysis with heparin-induced thrombocytopenia (HIT II). The first long-term application of r-hirudin in a haemodialysis patient [see comments] Nowak G, et al. **Wien Klin Wochenschr** 1997 May 23;109(10):354-8. Comment in: Wien Klin Wochenschr 1997 May 23;109(10):343-5.
The effect of low-dose subcutaneous heparin on postoperative wound hematomas: randomized clinical trial on hospitalized inguinal hernia patients in Germany [letter; comment] Goris RJ. **World J Surg** 1996 Mar-Apr; 20(3):378-9. Comment on: World J Surg 1995 May-Jun;19(3):416-8; discussion 419.
[Heparin-induced thrombocytopenia] Dulíček P, et al. **Vnitr Lek** 1996 Oct;42(10):705-9 (36 ref.) (Eng. Abstr.) **(Cze)**
[Does the pork/cat syndrome constitute a predisposition to heparin allergy?] Drouet M, et al. **Allerg Immunol (Paris)** 1997 Feb;29(2):43-5 (Eng. Abstr.) **(Fre)**
[Platelet factor 4, target of anti-heparin antibodies: application to biological diagnosis of heparin-induced thrombopenia] Amiral J. **Ann Med Interne (Paris)** 1997; 148(2):142-9 (32 ref.) (Eng. Abstr.) **(Fre)**
[Thrombopenia induced by heparin. From physiopathology to treatment] Gruel Y. **Ann Med Interne (Paris)** 1997; 148(2):136-41 (55 ref.) (Eng. Abstr.) **(Fre)**
[Pre- and intraoperative management of heparin cross hypersensitivity. Apropos of a case] Latrémouille C, et al. **Arch Mal Coeur Vaiss** 1996 Oct;89(10):1305-9 (Eng. Abstr.) **(Fre)**
[Osteoporosis induced either by unfractionated heparin or by low molecular weight heparin] Chigot P, et al. **J Mal Vasc** 1996;21(3):121-5 (18 ref.) (Eng. Abstr.) **(Fre)**
[Spontaneous splenic rupture due to heparin. Report of a case and review of the literature] Jabbour M, et al. **J Med Liban** 1995;43(2):107-9 (29 ref.) (Eng. Abstr.) **(Fre)**
[Value of orgaran in hemodialysis during heparin-induced thrombopenia (letter)] Lamriben L, et al. **Presse Med** 1996 Sep 28;25(28):1303 **(Fre)**
[Hypereosinophilia after calcium heparinate (letter)] Mouton Schleifer D, et al. **Presse Med** 1996 Nov 30;25(37):1848 **(Fre)**
[Heparin-associated platelet aggregation syndrome with skin necrosis during hemodialysis] Bredlich RO, et al. **Dtsch Med Wochenschr** 1997 Mar 14;122(11):328-32 (Eng. Abstr.) **(Ger)**
[Successful lysis of iliofemoral and inferior vena cava thrombi in heparin-induced type-II thrombocytopenia] Emig U, et al. **Dtsch Med Wochenschr** 1997 Aug 1;122(31-32):965-8 (25 ref.) (Eng. Abstr.) **(Ger)**
["White clot syndrome"] Bruhn HD. **Internist (Berl)** 1997 May;38(5):479-80 **(Ger)**
[Heparin-induced thrombocytopenia] Greinacher A. **Internist (Berl)** 1996 Nov;37(11):1172-8; discussion 1178 (18 ref.) **(Ger)**
[Fatal central pulmonary embolism under heparin therapy: white-clot syndrome] Canova CR, et al. **Schweiz Med Wochenschr** 1997 May 3;127(18):762-5 (Eng. Abstr.) **(Ger)**
[Loss of extremities caused by heparin-induced thrombocytopenia] Wenzl ME, et al. **Unfallchirurg** 1996 Aug;99(8):607-11 (Eng. Abstr.) **(Ger)**
[Heparin-induced thrombocytopenia Type II (HIT II) A fatal complication of heparin use for thromboembolism prevention] Hobbensiefken G, et al. **Unfallchirurgie** 1996 Dec;22(6):248-52 (Eng. Abstr.) **(Ger)**
[Heparin-induced thrombocytopenia (editorial; comment)] Greinacher A. **Wien Klin Wochenschr** 1997 May 23; 109(10):343-5. Comment on: Wien Klin Wochenschr 1997 May 23;109(10):354-8. **(Ger)**
[Hypercoagulation caused by heparin-associated type II thrombocytopenia] Bux-Gewehr I, et al. **Z Kardiol** 1996 Sep;85(9):656-60 (Eng. Abstr.) **(Ger)**
[Thrombocytopenia and thrombophilic state in heparin therapy] Faglieri N, et al. **Minerva Anestesiol** 1995 Oct; 61(10):431-5 (Eng. Abstr.) **(Ita)**
[Retroperitoneal hematoma during heparin therapy. Comments on 3 cases] Di Rosa C, et al. **Minerva Chir** 1997 Apr;52(4):493-7 (30 ref.) (Eng. Abstr.) **(Ita)**
[Heparin-induced thrombocytopenias, arterial and venous thromboses--complications of heparin therapy] Baluda MV. **Ter Arkh** 1996;68(12):19-22 (63 ref.) **(Rus)**
[Thrombocytopenia caused by heparin. Report of a case of life-threatening conditions] Houltz B, et al. **Lakartidningen** 1997 Feb 5;94(6):416-9 **(Swe)**

ANALOGS & DERIVATIVES

Inhibition of human immunodeficiency virus infection by heparin derivatives. Clayette P, et al. **AIDS Res Hum Retroviruses** 1996 Jan 1;12(1):63-9
Heparinase-II-catalyzed degradation of N-propionylated heparin. Moffat CF, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):201-6
Lactoferrin regulates the activity of heparin proteoglycan-bound mast cell chymase: characterization of the binding of heparin to lactoferrin. Pejler G. **Biochem J** 1996 Dec 15;320 (Pt 3):897-903
Heparin-steroid conjugates lacking glucocorticoid or mineralocorticoid activities inhibit the proliferation of vascular endothelial cells. Derbyshire EJ, et al. **Biochim Biophys Acta** 1997 Jan 10;1310(1):86-96
HPLC determination of ITF 188 and its metabolite ITF 1078 in urine after intranasal administration of new heparin salt ITF 1300 to dogs. Monzani MV, et al. **Boll Chim Farm** 1997 Mar;136(3):272-4
Heparin oligosaccharides: inhibitors of the biological activity of bFGF on Caco-2 cells. Jayson GC, et al. **Br J Cancer** 1997;75(1):9-16
Mast cell derived heparin activates the contact system: a link to kinin generation in allergic reactions. Brunnée T, et al. **Clin Exp Allergy** 1997 Jun;27(6):653-63
Laminin and heparan sulfate proteoglycan mediate epithelial cell polarization in organotypic cultures of embryonic lung cells: evidence implicating involvement of the inner globular region of laminin beta 1 chain and the heparan sulfate groups of heparan sulfate proteoglycan. Schuger L, et al. **Dev Biol** 1996 Oct 10;179(1):264-73
Analysis of heparin-like pharmaceuticals by capillary zone electrophoresis and isotachophoresis. Mala Z, et al. **Electrophoresis** 1996 Jan;17(1):125-9
Mast cell chymase in complex with heparin proteoglycan is regulated by protamine. Pejler G. **FEBS Lett** 1996 Apr 1;383(3):170-4
Chemical modifications of heparin that diminish its anticoagulant but preserve its heparanase-inhibitory, angiostatic, anti-tumor and anti-metastatic properties. Lapierre F, et al. **Glycobiology** 1996 Apr;6(3):355-66
Role of sinusoidal heparan sulfate proteoglycan in liver metastasis formation. Tóvári J, et al. **Int J Cancer** 1997 May 29;71(5):825-31
Interaction of angiogenic basic fibroblast growth factor with endothelial cell heparan sulfate proteoglycans. Biological implications in neovascularization. Rusnati M, et al. **Int J Clin Lab Res** 1996;26(1):15-23 (91 ref.)
Enzymatic preparation of heparin oligosaccharides containing antithrombin III binding sites. Toida T, et al. **J Biol Chem** 1996 Dec 13;271(50):32040-7
LU 51198, a highly sulfated, low-molecular-weight heparin derivative, prevents complement-mediated myocardial injury in the perfused rabbit heart. Gralinski MR, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):554-60
Heparin and heparinoids prevent the binding of immune complexes containing nucleosomal antigens to the GBM and delay nephritis in MRL/lpr mice. van Bruggen MC, et al. **Kidney Int** 1996 Nov;50(5):1555-64
New class of heparin derivatives with a potent antithrombotic effect and a very limited hemorrhagic activity. Doutremepuich C, et al. **Thromb Res** 1996 Aug 1; 83(3):217-28

ANALYSIS

End-label free-solution electrophoresis of the low molecular weight heparins. Sudor J, et al. **Anal Chem** 1997 Aug 15; 69(16):3199-204
High performance capillary electrophoresis method to characterize heparin and heparan sulfate disaccharides. Karamanos NK, et al. **Electrophoresis** 1996 Feb;17(2):391-5
Quantitative analysis of heparin retention on heparin bonded knitted Dacron grafts after exposure to shear stress in vitro. Swartbol P, et al. **Int Angiol** 1996 Sep;15(3):232-5
Heparin detection by the activated coagulation time: a comparison of the sensitivity of coagulation tests and heparin assays. Murray DJ, et al. **J Cardiothorac Vasc Anesth** 1997 Feb;11(1):24-8
Chromatographic and electrophoretic applications for the analysis of heparin and dermatan sulfate. Malsch R, et al. **J Chromatogr B Biomed Appl** 1996 Oct 25;685(2):223-31
A new method for direct detection of heparin on surface-modified intraocular lenses. A modification of Jaques' toluidine blue staining method. Dick B, et al. **Ophthalmologica** 1997;211(2):75-8
Heparins, low-molecular-weight heparins, and other glycosaminoglycans analyzed by agarose gel electrophoresis and azure A-silver staining. Wang L, et al. **Semin Thromb Hemost** 1997;23(1):11-6

ANTAGONISTS & INHIBITORS see HEPARIN ANTAGONISTS

BIOSYNTHESIS

Synchronized order of appearance of hyaluronic acid (or acidic galactan) --> chondroitin C-6 sulfate --> chondroitin C-4/C-6 sulfate, heparan sulfate, dermatan sulfate --> heparin during morphogenesis, differentiation and development. Nader HB, et al. **Braz J Med Biol Res** 1996 Sep;29(9):1221-6
Synthesis of the disaccharides methyl 4-O-(2'/3'-O-sulfo-beta-D-glucopyranosyluronic acid)-2-amino-2-deoxy-alpha-D-glucopyranoside disodium salts, related to heparin biosynthesis. Cipolla L, et al. **Glycoconj J** 1996 Dec;13(6):995-1003

BLOOD

Evaluation of a new protamine titration method to assay heparin in whole blood and plasma. Schlueter AJ, et al. **Am J Clin Pathol** 1997 May;107(5):511-20
Preferential binding of heparin to granulocytes of various species. Harenberg J, et al. **Am J Vet Res** 1996 Jul; 57(7):1016-20
Sensitivity and specificity of the Hemochron, Hemotec and APTT for the detection of low concentrations of heparin. Weightman WM, et al. **Anaesth Intensive Care** 1996 Aug; 24(4):472-6
Hemofiltration during cardiopulmonary bypass: the effect on anti-Xa and anti-IIa heparin activity. Despotis GJ, et al. **Anesth Analg** 1997 Mar;84(3):479-83
Detection of heparin in salvaged blood [letter] Loubser PG. **Anesthesiology** 1997 Sep;87(3):719-20
Induction of the acute-phase reaction increases heparin-binding proteins in plasma. Young E, et al. **Arterioscler Thromb Vasc Biol** 1997 Aug;17(8):1568-74
Detection of heparin-like glycosaminoglycans in normal human plasma by polyacrylamide-gel electrophoresis. Cavari S, et al. **Clin Chim Acta** 1996 Aug 30;252(2):159-70
Predicting the presence of plasma heparin using neural networks to analyze coagulation screening assay optical profiles. Givens TB, et al. **Comput Biol Med** 1996 Nov; 26(6):463-76
A new method of measuring heparin levels in whole blood by protamine titration using a heparin-responsive electrochemical sensor. Wahr JA, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):447-50
Whole blood heparin concentration measurements by automated protamine titration agree with plasma anti-Xa measurements. Despotis GJ, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):611-3
Influence of heparin on the assay of amitriptyline, clomipramine, and their metabolites. Levering SC, et al. **Ther Drug Monit** 1996 Jun;18(3):304-5
More effective suppression of hemostatic system activation in patients undergoing cardiac surgery by heparin dosing based on heparin blood concentrations rather than ACT. Despotis GJ, et al. **Thromb Haemost** 1996 Dec;76(6):902-8
The activity of unfractionated heparin and low molecular weight heparins in rabbit plasma--the need for using absolute anti-factor Xa and antithrombin activities. Peyrou V, et al. **Thromb Haemost** 1997 Feb;77(2):312-6
Blood-interaction performance of differently sulphated hyaluronic acids. Magnani A, et al. **Thromb Res** 1996 Feb 1;81(3):383-95

[A clinical evaluation of the Hepcon/HMS: a new device of monitoring hemostasis management during cardiopulmonary bypass] Yamanishi H, et al. **Kyobu Geka** 1997 Jun;50(6):459–62 (Eng. Abstr.) **(Jpn)**

[Clinical evaluation of heparin concentration and activated clotting time monitoring (HEPCON HMS) system] Sakurada T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jun;45(6):836–40 (Eng. Abstr.) **(Jpn)**

CEREBROSPINAL FLUID

Adhesion of staphylococci to polymers with and without immobilized heparin in cerebrospinal fluid. Nomura S, et al. **J Biomed Mater Res** 1997 Spring;38(1):35–42

CHEMICAL SYNTHESIS

Biochemical and pharmacologic rationale for the development of a synthetic heparin pentasaccharide. Walenga JM, et al. **Thromb Res** 1997 Apr 1;86(1):1–36 (141 ref.)

CHEMISTRY

Differential effect of three commercial heparins on Na+/H+ exchange and growth of PASMC. Dahlberg CG, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L260–5

Absolute molecular weight distribution of low-molecular-weight heparins by size-exclusion chromatography with multiangle laser light scattering detection. Knobloch JE, et al. **Anal Biochem** 1997 Feb 15; 245(2):231–41

Chiral separation of chloroquine using heparin as a chiral selector in high-performance liquid chromatography. Staicup AM, et al. **Anal Chem** 1996 Jul 1;68(13):2248–50

Pattern and spacing of basic amino acids in heparin binding sites. Fromm JR, et al. **Arch Biochem Biophys** 1997 Jul 1;343(1):92–100

Structure-function relations of antithrombin III-heparin interactions as assessed by biophysical and biological assays and molecular modeling of peptide-pentasaccharide-docked complexes. Tyler-Cross R, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):206–13

Structural aspects of heparin responsible for interactions with von Willebrand factor. Poletti LF, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):925–31

Biocompatibility of heparin-coated circuits in pediatric cardiopulmonary bypass. Kagisaki K, et al. **Artif Organs** 1997 Jul;21(7):836–40

Characterization of sulfation patterns of beef and pig mucosal heparins by nuclear magnetic resonance spectroscopy. Casu B, et al. **Arzneimittelforschung** 1996 May;46(5):472–7

Identification of heparin-binding sites in midkine and their role in neurite-promotion. Asai T, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):66–70

Effect of polyanions on ferricytochrome c. Sedlák E. **Biochem Mol Biol Int** 1997 Jan;41(1):25–32

Similarity and dissimilarity in aspects of the binding to heparin of Ca2+ and Zn2+ as revealed by potentiometric titration. Grant D, et al. **Biochem Soc Trans** 1996 May; 24(2):203S

The binding of platinum (II) to heparin. Grant D, et al. **Biochem Soc Trans** 1996 May;24(2):204S

Interaction of lipoprotein lipase with heparin fragments and with heparan sulfate: stoichiometry, stabilization, and kinetics. Lookene A, et al. **Biochemistry** 1996 Sep 17; 35(37):12155–63

Properly oriented heparin-decasaccharide-induced dimers are the biologically active form of basic fibroblast growth factor. Moy FJ, et al. **Biochemistry** 1997 Apr 22; 36(16):4782–91

Heparin-like functionalized polymer surfaces: discrimination between catalytic and adsorption processes during the course of thrombin inhibition. Charef S, et al. **Biomaterials** 1996 May;17(9):903–12

New polyurethane compositions able to bond high amounts of both albumin and heparin. II: Copolymers and polymer blends. Marconi W, et al. **Biomaterials** 1996 Sep; 17(18):1795–802

Bioactive heparin surfaces from derivatization of polyacrylamide-grafted LLDPE. Wirsén A, et al. **Biomaterials** 1996 Oct;17(19):1881–9

Fibronectin exposes different domains after adsorption to a heparinized and an unheparinized poly(vinyl chloride) surface. Yu JL, et al. **Biomaterials** 1997 Mar;18(5):421–7

Structure and function of fibroblast growth factor. Gambarini AG, et al. **Braz J Med Biol Res** 1996 Jul;29(7):835–9

1H and 13C NMR spectral assignments of the major sequences of twelve systematically modified heparin derivatives. Yates EA, et al. **Carbohydr Res** 1996 Nov 20; 294:15–27

Heparin protection against Fe2+ -and Cu2+ -mediated oxidation of liposomes. Albertini R, et al. **FEBS Lett** 1996 Apr 1;383(3):155–8

A unique trisaccharide sequence in heparin mediates the early step of antithrombin III activation. Petitou M, et al. **Glycobiology** 1997 Apr;7(3):323–7

A clinical study to assess the effect of heparin in dialyzer rinsing solutions. Opatrný K Jr, et al. **Int J Artif Organs** 1997 Feb;20(2):112–8

Isolation of heparin-derived oligosaccharides containing 2-O-sulfated hexuronic acids, by lipoprotein lipase affinity chromatography. Parthasarathy N, et al. **J Biochem Biophys Methods** 1996 Apr;32(1):27–32

The interaction of the transforming growth factor-betas with heparin/heparan sulfate is isoform-specific. Lyon M, et al. **J Biol Chem** 1997 Jul 18;272(29):18000–6

Native and multimeric vitronectin exhibit similar affinity for heparin. Differences in heparin binding properties induced upon denaturation are due to self-association into a multivalent form. Zhuang P, et al. **J Biol Chem** 1997 Mar 14;272(11):6858–67

Characterisation of silica-based heparin-affinity adsorbents through column chromatography of plasma fractions containing thrombin. Björklund M, et al. **J Chromatogr A** 1996 Aug 30;743(1):145–62

Characterisation of silica-based heparin affinity sorbents from equilibrium binding studies on plasma fractions containing thrombin. Björklund M, et al. **J Chromatogr A** 1997 Feb 21;762(1-2):113–33

Ion-pair high-performance liquid chromatography for determining disaccharide composition in heparin and heparan sulphate. Karamanos NK, et al. **J Chromatogr A** 1997 Mar 28;765(2):169–79

Immunocytochemical localization of heparin in secretory granules of rat peritoneal mast cells using a monoclonal anti-heparin antibody (ST-1). Oliani SM, et al. **J Histochem Cytochem** 1997 Feb;45(2):231–5

The 2.6 A structure of antithrombin indicates a conformational change at the heparin binding site. Skinner R, et al. **J Mol Biol** 1997 Feb 28;266(3):601–9

End point attached heparin affinity matrix. LaFrance LK, et al. **J Mol Recognit** 1996 Sep-Dec;9(5-6):748–51

Structural analysis of heparin by raman spectroscopy. Atha DH, et al. **J Pharm Sci** 1996 Jan;85(1):52–6

Accelerated stability studies of heparin. Jandik KA, et al. **J Pharm Sci** 1996 Jan;85(1):45–51

Preparation and stabilization of heparin/gelatin complex coacervate microcapsules. Tsung M, et al. **J Pharm Sci** 1997 May;86(5):603–7

LU 51198, a highly sulfated, low-molecular-weight heparin derivative, prevents complement-mediated myocardial injury in the perfused rabbit heart. Gralinski MR, et al. **J Pharmacol Exp Ther** 1997 Aug;282(2):554–60

Heparin-chitosan complexes stimulate wound healing in human skin. Kratz G, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Jun; 31(2):119–23

Structural mobility of antithrombin and its modulation by heparin. Carrell R, et al. **Thromb Haemost** 1997 Jul; 78(1):516–9

CONTRAINDICATIONS

Is heparin contraindicated in pelvic lymphadenectomy and radical prostatectomy? Sieber PR, et al. **J Urol** 1997 Sep; 158(3 Pt 1):869–71

[Thromboembolism prevention with low dose heparin and spinal anesthesia—a risky combination?] Keser C, et al. **Anaesthesist** 1996 Dec;45(12):1203–10 (Eng. Abstr.) **(Ger)**

DEFICIENCY

Evidence that endogenous heparin activity deficiency may be an important factor in atherogenesis. Engelberg H. **Semin Thromb Hemost** 1997;23(2):159–66 (86 ref.)

DIAGNOSTIC USE

Thromboplastins, heparin, and polybrene [letter; comment] Carroll WE. **Am J Clin Pathol** 1996 Oct;106(4):556. Comment on: Am J Clin Pathol 1995 Jun;103(6):735–9. Comment on: Am J Clin Pathol 1996 Feb;105(2):253–4.

Separation by heparin-affinity chromatography of catalytically active and inactive forms of trypsin which retain the (Na-K)ATPase stimulating property. Finotti P. **Clin Chim Acta** 1996 Dec 9;256(1):37–51

ECONOMICS

Pharmacoeconomic model of enoxaparin versus heparin for prevention of deep vein thrombosis after total hip replacement. Hawkins DW, et al. **Am J Health Syst Pharm** 1997 May 15;54(10):1185–90

Economic evaluation of the use of nadroparin in the treatment of deep-vein thrombosis in Switzerland. Lloyd AC, et al. **Ann Pharmacother** 1997 Jul-Aug;31(7-8):842–6

Treatment of proximal vein thrombosis with subcutaneous low-molecular-weight heparin vs intravenous heparin. An economic perspective [see comments] Hull RD, et al. **Arch Intern Med** 1997 Feb 10;157(3):289–94. Comment in: ACP J Club 1997 Jul-Aug;127(1):23.

Thromboembolic prophylaxis in moderate-risk patients undergoing elective abdominal surgery: decision and cost-effectiveness analyses. Mamdani MM, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1111–27

HISTORY

The development of heparin in Toronto. Marcum JA. **J Hist Med Allied Sci** 1997 Jul;52(3):310–37

[The heparin treatment of toxic epidermal necrolysis. A Mexican priority (letter; comment)] Domínguez Soto L, et al. **Gac Med Mex** 1997 May-Jun;133(3):282. Comment on: Gac Med Mex 1997 Jan-Feb;133(1):41. **(Spa)**

[The heparin treatment of toxic epidermal necrolysis. A Mexican priority (see comments)] Quijano-Pitman F. **Gac Med Mex** 1997 Jan-Feb;133(1):41. Comment in: Gac Med Mex 1997 May-Jun;133(3):282. **(Spa)**

IMMUNOLOGY

Heparin-induced platelet aggregation vs platelet factor 4 enzyme-linked immunosorbent assay in the diagnosis of heparin-induced thrombocytopenia-thrombosis. Look KA, et al. **Am J Clin Pathol** 1997 Jul;108(1):78–82

Characterization of the humoral immune response in heparin-induced thrombocytopenia. Suh JS, et al. **Am J Hematol** 1997 Mar;54(3):196–201

Enoxaparin-associated dermal necrosis: a consequence of cross-reactivity with heparin-mediated antibodies. Tonn ME, et al. **Ann Pharmacother** 1997 Mar;31(3):323–6

Prevalence of heparin-associated antibodies without thrombosis in patients undergoing cardiopulmonary bypass surgery. Bauer TL, et al. **Circulation** 1997 Mar 4; 95(5):1242–6

Pathogenicity of human anti-platelet factor 4 (PF4)/heparin in vivo: generation of mouse anti-PF4/heparin and induction of thrombocytopenia by heparin. Blank M, et al. **Clin Exp Immunol** 1997 May;108(2):333–9

Autoimmune MRL mice express high-affinity IgG2b monoclonal autoantibodies to heparin. Fillit H, et al. **Clin Immunol Immunopathol** 1996 Oct;81(1):62–7

Purification of the monoclonal heparin antibody H-1.18. Malsch R, et al. **J Chromatogr A** 1996 Sep 13; 744(1-2):215–21

Type IV hypersensitivity to subcutaneous heparin: a new case. Gonzalo Garijo MA, et al. **J Investig Allergol Clin Immunol** 1996 Nov-Dec; 6(6):388–91

The glycoprotein IIb/IIIa antagonist c7E3 inhibits platelet aggregation in the presence of heparin-associated antibodies. Liem TK, et al. **J Vasc Surg** 1997 Jan; 25(1):124–30

Use of two Greenfield caval filters to prevent recurrent pulmonary embolism in a heparin-allergic gravida. Arbogast JD, et al. **Obstet Gynecol** 1994 Oct;84(4 Pt 2):652–4

Monoclonal antibodies against heparin and heparinoids. Huhle G, et al. **Semin Thromb Hemost** 1997;23(1):17–22

The presence of antibodies against a PF4-heparin complex in patients on haemodialysis [letter] Boon DM, et al. **Thromb Haemost** 1996 Sep;76(3):480

Frequency of antibodies directed against heparin-platelet factor 4 in patients exposed to heparin through chronic hemodialysis [letter] de Sancho M, et al. **Thromb Haemost** 1996 Apr;75(4):695–6

The use of heparinase improves the specificity of crossreactivity testing in heparin-induced thrombocytopenia [letter] Pötzsch B, et al. **Thromb Haemost** 1996 Dec;76(6):1121

ISOLATION & PURIFICATION

Optimization and assessment of the in vivo efficacy of a heparin removing bio-reactor using mathematical modeling. Byun Y, et al. **ASAIO J** 1996 Sep-Oct; 42(5):M782–7

The use of a heparin removal device: a valid alternative to protamine. Hendrikx M, et al. **Int J Artif Organs** 1997 Mar; 20(3):166–74

Purification of heparin, dermatan sulfate and chondroitin sulfate from mixtures by sequential precipitation with various organic solvents. Volpi N. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):27–34

METABOLISM

The in vitro anti-HIV efficacy of negatively charged human serum albumin is antagonized by heparin. Swart PJ, et al. **AIDS Res Hum Retroviruses** 1997 May 20;13(8):677–83

IGFBP-3 proteolysis by plasmin, thrombin, serum: heparin binding, IGF binding, and structure of fragments. Booth BA, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):E465–70

Laminin E8 alveolarization site: heparin sensitivity, cell surface receptors, and role in cell spreading. Chen L, et al. **Am J Physiol** 1997 Mar;272(3 Pt 1):L494–503

Synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins. Stearns NA, et al. **Anal Biochem** 1997 May 1;247(2):348–56

Disulfide structure of the heparin binding domain in vascular endothelial growth factor: characterization of posttranslational modifications in VEGF. Keck RG, et al. **Arch Biochem Biophys** 1997 Aug 1;344(1):103–13

Effect of individual carbohydrate chains of recombinant antithrombin on heparin affinity and on the generation of glycoforms differing in heparin affinity. Olson ST, et al. **Arch Biochem Biophys** 1997 May 15;341(2):212–21

Heparin-binding domain of fibrin mediates its binding to endothelial cells. Odrljin TM, et al. **Arterioscler Thromb Vasc Biol** 1996 Dec;16(12):1544–51

Structural aspects of heparin responsible for interactions with von Willebrand factor. Poletti LF, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):925–31

Limited proteolysis by chymotrypsin of midkine and inhibition by heparin binding. Matsuda Y, et al. **Biochem Biophys Res Commun** 1996 Nov 1;228(1):176–81

Regulation of C1-inhibitor function by binding to type IV collagen and heparin. Patston PA, et al. **Biochem Biophys Res Commun** 1997 Jan 23;230(3):597–601

A monoclonal antibody against human lipoprotein lipase inhibiting heparin binding without affecting catalytic

activity. Cadelis F, et al. **Biochem Cell Biol** 1996; 74(3):383–9

Nitric oxide degradation of heparin and heparan sulphate. Vilar RE, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):473–9

The binding of interleukin 2 to heparin revealed by a novel ELISA method. Najjam S, et al. **Biochem Soc Trans** 1997 Feb;25(1):3S

Isolation and conformational analysis of fragment peptide corresponding to the heparin-binding site of hepatocyte growth factor. Aoyama H, et al. **Biochemistry** 1997 Aug 19;36(33):10286–91

Interaction of lipoprotein lipase with heparin fragments and with heparan sulfate: stoichiometry, stabilization, and kinetics. Lookene A, et al. **Biochemistry** 1996 Sep 17; 35(37):12155–63

The oligosaccharide side chain on Asn-135 of alpha-antithrombin, absent in beta-antithrombin, decreases the heparin affinity of the inhibitor by affecting the heparin-induced conformational change. Turk B, et al. **Biochemistry** 1997 Jun 3;36(22):6682–91

Regulation of heparin-binding EGF-like growth factor expression by phorbol ester in a human hepatoma-derived cell line. Ito N, et al. **Biochim Biophys Acta** 1997 Jan 10; 1310(1):163–7

Characterization of the heparin-binding domain of human extracellular superoxide dismutase. Tibell LA, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):21–32

Molecular weight dependency in the uptake of fractionated [3H]heparin in isolated rat Kupffer cells. Haba M, et al. **Biol Pharm Bull** 1996 Jun;19(6):864–8

Kinetic characterization of binding and internalization of fractionated [3H]heparin in rat liver parenchymal cells in primary culture. Urano K, et al. **Biol Pharm Bull** 1997 Jun; 20(6):680–3

Uptake mechanism of fractioned [(3)H]heparin in isolated rat kupffer cells: involvement of scavenger receptors. Watanabe J, et al. **Biol Pharm Bull** 1996 Apr;19(4):581–6

Macromolecule-macromolecule interaction in drug distribution. IV. Molecular weight dependency in the interaction of fractionated [3H]heparin with plasma proteins. Watanabe J, et al. **Biol Pharm Bull** 1996 Feb; 19(2):287–90

[3H]heparin binding in boar spermatozoa: characterization and correlation with routine semen quality parameters. Sánchez-Prieto J, et al. **Biol Reprod** 1996 Oct;55(4):860–7

Adsorption of chondroitin-4-sulphate and heparin onto hydroxyapatite—effect of bovine serum albumin. Hughes Wassell DT, et al. **Biomaterials** 1997 Jul;18(14):1001–7

Evaluation of an epoxy-fixed biological patch with ionically bound heparin as a pericardial substitute. Sung HW, et al. **Biomaterials** 1996 Sep;17(17):1693–701

The suicide substrate reaction between plasminogen activator inhibitor 1 and thrombin is regulated by the cofactors vitronectin and heparin. van Meijer M, et al. **Blood** 1997 Sep 1;90(5):1874–82

Homozygous variant of antithrombin with lack of affinity for heparin: management of severe thrombotic complications associated with intrauterine fetal demise. Bauters A, et al. **Blood Coagul Fibrinolysis** 1996 Oct; 7(7):705–10

The epitope specificity of heparin-induced thrombocytopenia. Horsewood P, et al. **Br J Haematol** 1996 Oct;95(1):161–7

Lysophosphatidylcholine increases expression of heparin-binding epidermal growth factor-like growth factor in human T lymphocytes. Nishi E, et al. **Circ Res** 1997 May;80(5):638–44

Separation by heparin-affinity chromatography of catalytically active and inactive forms of trypsin which retain the (Na-K)ATPase stimulating property. Finotti P. **Clin Chim Acta** 1996 Dec 9;256(1):37–51

Genetic evidence that heparin-like glycosaminoglycans are involved in wingless signaling. Binari RC, et al. **Development** 1997 Jul;124(13):2623–32

Comparison of heparin-binding to lactoferrin from human milk and from human granulocytes by means of affinity capillary electrophoresis. Heegaard NH, et al. **Electrophoresis** 1996 Dec;17(12):1916–20

Activation of HER4 by heparin-binding EGF-like growth factor stimulates chemotaxis but not proliferation. Elenius K, et al. **EMBO J** 1997 Mar 17;16(6):1268–78

Binding of insulin-like growth factor (IGF) I or II to IGF-binding protein-2 enables it to bind to heparin and extracellular matrix. Arai T, et al. **Endocrinology** 1996 Nov; 137(11):4571–5

Heparin-binding, highly basic regions within the thyroglobulin type-1 repeat of insulin-like growth factor (IGF)-binding proteins (IGFBPs) -3, -5, and -6 inhibit IGFBP-4 degradation. Fowlkes JL, et al. **Endocrinology** 1997 Jun;138(6):2280–5

Uncoupling of actomyosin adenosinetriphosphatase by heparin and its fragments. Tersariol IL, et al. **Eur J Biochem** 1997 Apr 1;245(1):40–6

Heparin-dependent fibroblast growth factor activities: effects of defined heparin oligosaccharides. Zhou FY, et al. **Eur J Cell Biol** 1997 May;73(1):71–80

Heparin-binding epidermal growth factor-like growth factor, an immediate-early gene for mesangial cells, is up-regulated in the Thy-1.1 model. Polihronis M, et al. **Exp Nephrol** 1996 Sep–Oct;4(5):271–8

The primary structure of BSP-30K, a major lipid-, gelatin-, and heparin-binding glycoprotein of bovine seminal plasma. Calvete JJ, et al. **FEBS Lett** 1996 Dec 9; 399(1–2):147–52

Isolation and characterization of heparin- and phosphorylcholine-binding proteins of boar and stallion seminal plasma. Primary structure of porcine pB1. Calvete JJ, et al. **FEBS Lett** 1997 Apr 28;407(2):201–6

Identification of novel heparin-binding domains of vitronectin. Liang OD, et al. **FEBS Lett** 1997 Apr 28; 407(2):169–72

Helicobacter pylori interacts with heparin and heparin-dependent growth factors. Ascencio F, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3–4):265–72

Structure-function relationships in the heparin-binding C-terminal region of insulin-like growth factor binding protein-3. Booth BA, et al. **Growth Regul** 1996 Dec; 6(4):206–13

Blood interaction with a Bioline heparin coated HIA-VAD: a study on calves. van der Kamp KW, et al. **Int J Artif Organs** 1997 Jan;20(1):43–50

Interaction of angiogenic basic fibroblast growth factor with endothelial cell heparan sulfate proteoglycans. Biological implications in neovascularization. Rusnati M, et al. **Int J Clin Lab Res** 1996;26(1):15–23 (91 ref.)

Identification of the anti-adhesive site buried within the heparin-binding domain of fibronectin. Fukai F, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):189–92

Importance of 2-O-sulfate groups of uronate residues in heparin for activation of FGF-1 and FGF-2. Ishihara M, et al. **J Biochem (Tokyo)** 1997 Feb;121(2):345–9

Separation of the subtypes of type V collagen molecules, [alpha 1(V)]2 alpha 2(V) and alpha 1(V) alpha 2(V) alpha 3(V), by chain composition-dependent affinity for heparin: single alpha 1(V) chain shows intermediate heparin affinity between those of the type V collagen subtypes composed of [alpha 1(V)]2 alpha 2(V) and of alpha 1(V) alpha 2(V) alpha 3(V). Mizuno K, et al. **J Biochem (Tokyo)** 1996 Nov; 120(5):934–9

A heparin-sensitive phospholipase A2 and prostaglandin endoperoxide synthase-2 are functionally linked in the delayed phase of prostaglandin D2 generation in mouse bone marrow-derived mast cells. Bingham CO 3rd, et al. **J Biol Chem** 1996 Oct 18;271(42):25936–44

Purification and characterization of novel heparin-binding growth factors in uterine secretory fluids. Identification as heparin-regulated Mr 10,000 forms of connective tissue growth factor. Brigstock DR, et al. **J Biol Chem** 1997 Aug 8;272(32):20275–82

Identification of the antithrombin III heparin binding site. Ersdal-Badju E, et al. **J Biol Chem** 1997 Aug 1; 272(31):19393–400

Characterization of heparin and heparan sulfate domains binding to the long splice variant of platelet-derived growth factor A chain. Feyzi E, et al. **J Biol Chem** 1997 Feb 28;272(9):5518–24

Heparin facilitates dissociation of complexes between thrombin and a reactive site mutant (L444R) of heparin cofactor II. Han JH, et al. **J Biol Chem** 1997 Mar 28; 272(13):8243–9

Binding of fibrin monomer and heparin to thrombin in a ternary complex alters the environment of the thrombin catalytic site, reduces affinity for hirudin, and inhibits cleavage of fibrinogen. Hogg PJ, et al. **J Biol Chem** 1996 Oct 18;271(42):26088–95

Divalent cations and heparin/heparan sulfate cooperate to control assembly and activity of the fibroblast growth factor receptor complex. Kan M, et al. **J Biol Chem** 1996 Oct 18;271(42):26143–8

The high affinity heparin-binding domain and the V region of fibronectin mediate invasion of human oral squamous cell carcinoma cells in vitro. Kapila YL, et al. **J Biol Chem** 1997 Jul 25;272(30):18932–8

Characterization of the heparin binding properties of annexin II tetramer. Kassam G, et al. **J Biol Chem** 1997 Jun 13; 272(24):15093–100

The first immunoglobulin-like neural cell adhesion molecule (NCAM) domain is involved in double-reciprocal interaction with the second immunoglobulin-like NCAM domain and in heparin binding. Kiselyov VV, et al. **J Biol Chem** 1997 Apr 11;272(15):10125–34

Interaction of the NH2-terminal domain of fibronectin with heparin. Role of the omega-loops of the type i modules. Kishore R, et al. **J Biol Chem** 1997 Jul 4;272(27):17078–85

Zinc as a cofactor for heparin neutralization by histidine-rich glycoprotein. Kluszynski BA, et al. **J Biol Chem** 1997 May 23;272(21):13541–7

Lysine residue 114 in human antithrombin III is required for heparin pentasaccharide-mediated activation. Kridel SJ, et al. **J Biol Chem** 1997 Mar 21;272(12):7656–60

Role of arginine 132 and lysine 133 in heparin binding to and activation of antithrombin. Meagher JL, et al. **J Biol Chem** 1996 Nov 15;271(46):29353–8

Type II secretory phospholipase A2 associated with cell surfaces via C-terminal heparin-binding lysine residues augments stimulus-initiated delayed prostaglandin generation. Murakami M, et al. **J Biol Chem** 1996 Nov 22;271(47):30041–51

Heparin and heparan sulfate bind to snake cardiotoxin. Sulfated oligosaccharides as a potential target for cardiotoxin action. Patel HV, et al. **J Biol Chem** 1997 Jan 17;272(3):1484–92

Heparin-dependent modification of the reactive center arginine of antithrombin and consequent increase in heparin binding affinity. Pike RN, et al. **J Biol Chem** 1997 Aug 8;272(32):19652–5

Interaction of HIV-1 Tat protein with heparin. Role of the backbone structure, sulfation, and size. Rusnati M, et al. **J Biol Chem** 1997 Apr 25;272(17):11313–20

Heparin binding and oligomerization of hepatocyte growth factor/scatter factor isoforms. Heparan sulfate glycosaminoglycan requirement for Met binding and signaling. Sakata H, et al. **J Biol Chem** 1997 Apr 4; 272(14):9457–63

Interaction of heparin with human angiogenin. Soncin F, et al. **J Biol Chem** 1997 Apr 11;272(15):9818–24

Mouse mastocytoma cells synthesize undersulfated heparin and chondroitin sulfate in the presence of brefeldin A. Uhlin-Hansen L, et al. **J Biol Chem** 1997 Feb 7; 272(6):3200–6

Analysis of binding of cobra cardiotoxins to heparin reveals a new beta-sheet heparin-binding structural motif. Vyas AA, et al. **J Biol Chem** 1997 Apr 11;272(15):9661–70

The hemopexin-like domain (C domain) of human gelatinase A (matrix metalloproteinase-2) requires Ca2+ for fibronectin and heparin binding. Binding properties of recombinant gelatinase A C domain to extracellular matrix and basement membrane components. Wallon UM, et al. **J Biol Chem** 1997 Mar 14;272(11):7473–81

The interactions between antithrombin III, thrombin and surface immobilized heparin. van Delden CJ, et al. **J Biomater Sci Polym Ed** 1996;7(11):989–1004

Effect of fibronectin on the binding of antithrombin III to immobilized heparin. Byun Y, et al. **J Biomed Mater Res** 1996 Jan;30(1):95–100

Photoreactive analog of peptide FN-C/H-V from the carboxy-terminal heparin-binding domains of fibronectin supports endothelial cell adhesion and spreading on biomaterial surfaces. Huebsch JB, et al. **J Biomed Mater Res** 1996 Aug;31(4):555–67

Heparin-binding domain, type 1 and type 2 repeats of thrombospondin mediate its interaction with human breast cancer cells. Incardona F, et al. **J Cell Biochem** 1996 Sep 15;62(4):431–42

Application of a beta-cyclodextrin sulfate-immobilized precolumn to selective on-line enrichment and separation of heparin-binding proteins by column-switching high-performance liquid chromatography. Ishimura K, et al. **J Chromatogr A** 1997 May 9;769(2):209–14

Identification of a heparin-binding hemagglutinin present in mycobacteria. Menozzi FD, et al. **J Exp Med** 1996 Sep 1;184(3):993–1001

Heparin-binding epidermal growth factor-like growth factor and transforming growth factor-alpha in human non-small cell lung cancers. Chong IW, et al. **J Formos Med Assoc** 1997 Aug;96(8):579–85

Heparin, beta2-glycoprotein I, and thrombocytopenia [letter; comment] Cheng HM. **J Lab Clin Med** 1997 Feb; 129(2):266–7. Comment on: J Lab Clin Med 1996 May;127(5):418–9.

Apolipoprotein E5 (Glu212—>Lys): increased binding to cell surface proteoglycans but decreased uptake and lysosomal degradation in cultured fibroblasts. Feussner G, et al. **J Lipid Res** 1996 Aug;37(8):1632–45

A particle agglutination assay for rapid identification of heparin binding to coagulase-negative staphylococci. Pascu C, et al. **J Med Microbiol** 1996 Oct;45(4):263–9

Identification of heparin-binding domains in the amyloid precursor protein of Alzheimer's disease by deletion mutagenesis and peptide mapping. Clarris HJ, et al. **J Neurochem** 1997 Mar;68(3):1164–72

Increased activity-regulating and neuroprotective efficacy of alpha-secretase-derived secreted amyloid precursor protein conferred by a C-terminal heparin-binding domain [published erratum appears in J Neurochem 1997 Mar;68(3):1331] Furukawa K, et al. **J Neurochem** 1996 Nov; 67(5):1882–96

Tissue culture adaptation of foot-and-mouth disease virus selects viruses that bind to heparin and are attenuated in cattle. Sa-Carvalho D, et al. **J Virol** 1997 Jul;71(7):5115–23

Heparin-binding capacity of the HIV-1 NEF-protein allows one-step purification and biochemical characterization. Kohleisen B, et al. **J Virol Methods** 1996 Jun;60(1):89–101

Stability of heparin anticoagulant activity over time in parenteral nutrition solutions [published erratum appears in JPEN J Parenter Enteral Nutr 1996 Sep–Oct;20(5):370] Hensrud DD, et al. **JPEN J Parenter Enteral Nutr** 1996 May–Jun;20(3):219–21

Distribution of heparin-binding EGF-like growth factor protein and mRNA in the normal rat kidneys. Nakagawa T, et al. **Kidney Int** 1997 Jun;51(6):1774–9

Rapid phosphorylation of Ets-2 accompanies mitogen-activated protein kinase activation and the induction of heparin-binding epidermal growth factor gene expression by oncogenic Raf-1. McCarthy SA, et al. **Mol Cell Biol** 1997 May;17(5):2401–12

Evidence that heparin binding autocrine factors modulate testosterone production by the adult rat Leydig cell. McFarlane JR, et al. **Mol Cell Endocrinol** 1996 Apr 19; 118(1–2):57–63

Heparin binding of laminin: contribution of the triple helix in the rod domain to the formation of cryptic and active sites in the globular domain. Sung U. **Mol Cells** 1997 Apr 30;7(2):272–7

Assembly of microtubule-associated protein tau into Alzheimer-like filaments induced by sulphated

glycosaminoglycans [see comments] Goedert M, et al. **Nature** 1996 Oct 10;383(6600):550–3. Comment in: Nature 1996 Oct 10;383(6600):476–7.

Effects of heparin on the properties of solubilized and reconstituted rat brain AMPA receptors. Hall RA, et al. **Neurosci Lett** 1996 Oct 18;217(2–3):179–83

Novel synthetic peptides from the C-terminal heparin binding domain of fibronectin with heparin binding activity. Mohri H, et al. **Peptides** 1996;17(6):1079–81

Purification and molecular cloning of a secreted, Frizzled-related antagonist of Wnt action. Finch PW, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6770–5

A heparin-binding synthetic peptide of heparin/heparan sulfate-interacting protein modulates blood coagulation activities. Liu S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1739–44

Heparin-binding properties of selenium–containing thioredoxin reductase from HeLa cells and human lung adenocarcinoma cells. Liu SY, et al. **Proc Natl Acad Sci U S A** 1997 Jun 10;94(12):6138–41

Thrombin interaction with platelet GpIB: role of the heparin binding domain. De Candia E, et al. **Thromb Haemost** 1997 Apr;77(4):735–40

Role of the A+ helix in heparin binding to protein C inhibitor. Elisen MG, et al. **Thromb Haemost** 1996 May; 75(5):760–6

Modulation of thrombin and heparin activities by fibrin. Hogg PJ, et al. **Thromb Haemost** 1997 Mar;77(3):424–33 (70 ref.)

Antithrombin-mediated inhibition of factor VIIa–tissue factor complex by the synthetic pentasaccharide representing the heparin binding site to antithrombin. Lormeau JC, et al. **Thromb Haemost** 1996 Jul;76(1):5–8

A two-allele polymorphism in protein C inhibitor with varying frequencies in different ethnic populations. Radtke KP, et al. **Thromb Haemost** 1996 Jan;75(1):62–9

Effect of heparin on the activation of factor XI by fibrin-bound thrombin. von dem Borne PA, et al. . **Thromb Haemost** 1996 Sep;76(3):347–53

Interaction of heparin with fibrinogen using surface plasmon resonance technology: investigation of heparin binding site on fibrinogen. Raut S, et al. **Thromb Res** 1996 Feb 15; 81(4):503–9

Mast cells secrete heparin during immobilization stress in rats. Umarova BA, et al. **Thromb Res** 1997 Feb 1;85(3):267–72

Receptors for carbohydrate ligands including heparin on the cell surface of Leishmania and other trypanosomatids. Kock NP, et al. **Trop Med Int Health** 1997 Sep;2(9):863–74

[The role of thrombin in the activation of heparin secretion by mast cells during immobilization stress in rats] Umarova BA, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):143–5 **(Rus)**

PHARMACOKINETICS

Computational simulations of local vascular heparin deposition and distribution. Lovich MA, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):H2014–24

Macromolecule–macromolecule interaction in drug distribution. V. Effects of plasma proteins on uptake of fractionated [3H]heparin in isolated rat Kupffer cells. Haba M, et al. **Biol Pharm Bull** 1996 Oct;19(10):1352–6

Site-specific intracoronary heparin delivery in humans after balloon angioplasty. A radioisotopic assessment of regional pharmacokinetics. Camenzind E, et al. **Circulation** 1997 Jul 1;96(1):154–65

Covalent antithrombin–heparin complexes with high anticoagulant activity. Intravenous, subcutaneous, and intratracheal administration. Chan A, et al. **J Biol Chem** 1997 Aug 29;272(35):22111–7

Long-term persistence of biological activity following administration of Enoxaparin sodium (clexane) is due to sequestration of antithrombin–binding low molecular weight fragments—comparison with unfractionated heparin. Brieger D, et al. **Thromb Haemost** 1996 May; 75(5):740–6

PHARMACOLOGY

Effects of heparin and low molecular weight heparin on lipid transport during parenteral feeding in the rat. Roth B, et al. **Acta Anaesthesiol Scand** 1996 Jan;40(1):102–11

A comparison of the lipolytic and anticoagulative properties of heparin and pentosan polysulphate in the thoroughbred horse. Orme CE, et al. **Acta Physiol Scand** 1997 Feb; 159(2):179–85

Influence of glycoproteins B, C and D on the conversion of virus-to-cell attachment from heparin sensitivity to resistance. Seck T, et al. **Acta Virol** 1996 Sep;40(4):179–85

Inhibition of human immunodeficiency virus infection by heparin derivatives. Clayette P, et al. **AIDS Res Hum Retroviruses** 1996 Jan 1;12(1):63–9

Differential effect of three commercial heparins on Na+/H+ exchange and growth of PASMC. Dahlberg CG, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):L260–5

Effects of heparin on renal morphology and albuminuria in experimental diabetes. Marshall SM, et al. **Am J Physiol** 1996 Aug;271(2 Pt 1):E326–32

Effect of heparin on fibrinolytic activity and platelet function in vivo. Upchurch GR, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):H528–34

A clinical trial for the treatment of antiphospholipid antibody-associated recurrent pregnancy loss with lower dose heparin and aspirin. Kutteh WH, et al. **Am J Reprod Immunol** 1996 Apr;35(4):402–7

Inhibitory effect of heparin on serotonin-induced hyperplasia and hypertrophy of smooth muscle cells. Lee SL, et al. **Am J Respir Cell Mol Biol** 1997 Jul;17(1):78–83

Heterogeneity of allergic airway responses in sheep: differences in signal transduction? Ahmed T, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):843–9

Inhibition of peritoneal tumor cell growth and implantation in laparoscopic surgery in a rat model. Jacobi CA, et al. **Am J Surg** 1997 Sep;174(3):359–63

Fibrin glue containing fibroblast growth factor type 1 and heparin decreases platelet deposition. Zarge JI, et al. **Am J Surg** 1997 Aug;174(2):188–92

Effect of heparin on infection of cells by porcine reproductive and respiratory syndrome virus. Jusa ER, et al. **Am J Vet Res** 1997 May;58(5):488–91

Comparison of the effects of low-molecular-weight and unfractioned heparin in horses. Monreal L, et al. **Am J Vet Res** 1995 Oct;56(10):1281–5

Antithrombin III during cardiac surgery: effect on response of activated clotting time to heparin and relationship to markers of hemostatic activation. Despotis GJ, et al. **Anesth Analg** 1997 Sep;85(3):498–506

A modified thromboelastographic method for monitoring c7E3 Fab in heparinized patients. Greilich PE, et al. **Anesth Analg** 1997 Jan;84(1):31–8

Heparin induces rapid and remarkable elevation of hepatocyte growth factor/scatter factor during trans arterial embolization of renal cell carcinoma. Yamazaki H, et al. **Anticancer Res** 1997 Mar–Apr;17(2B):1435–7

Effect of heparin-reduced glutathione on hamster sperm DNA unpacking and nuclear swelling. Reyes R, et al. **Arch Androl** 1996 Jul–Aug;37(1):33–45

Heparin causes the accumulation of heparan sulfate in cultures of arterial smooth muscle cells. Potter-Perigo S, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):19–26

Inhibition of three alphaherpesviruses (herpes simplex 1 and 2 and pseudorabies virus) by heparin, heparan and other sulfated polyelectrolytes [published erratum appears in Arch Med Res 1996 Summer;27(2):following 255] Ramos-Kuri M, et al. **Arch Med Res** 1996 Spring;27(1):43–8

Heparin-dependent attachment of respiratory syncytial virus (RSV) to host cells. Krusat T, et al. **Arch Virol** 1997; 142(6):1247–54

Monocyte recruitment and neointimal hyperplasia in rabbits. Coupled inhibitory effects of heparin. Rogers C, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct;16(10):1312–8

Experimental studies on three types of heparin-coated cardiopulmonary bypass circuits. Baba T, et al. **Artif Organs** 1997 Jul;21(7):779–81

Changes in platelet, granulocyte, and complement activation during cardiopulmonary bypass using heparin-coated equipment. Fukutomi M, et al. **Artif Organs** 1996 Jul; 20(7):767–76

Immobilized heparin inhibits the increase in leukocyte surface expression of adhesion molecules. Garred P, et al. **Artif Organs** 1997 Apr;21(4):293–9

Clinical study of platelet function and coagulation/fibrinolysis with Duraflo II heparin coated cardiopulmonary bypass equipment. Nakajima T, et al. **ASAIO J** 1996 Jul–Aug;42(4):301–5

G1 phase arrest of human smooth muscle cells by heparin, IL-4 and cAMP is linked to repression of cyclin D1 and cdk2. Vadiveloo PK, et al. **Atherosclerosis** 1997 Aug; 133(1):61–9

Heparin functions as a hepatotrophic factor by inducing production of hepatocyte growth factor. Matsumoto K, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):455–61

Lymphocytes bursting induced by heparin, dextran sulfate and other polyanions. Mori K, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):783–7

Heparin alters transdermal transport associated with electroporation. Weaver JC, et al. **Biochem Biophys Res Commun** 1997 May 29;234(3):637–40

Heparin inhibits the binding of basic fibroblast growth factor to cultured human aortic smooth-muscle cells. Bono F, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):661–8

Heparin-decasaccharides impair the catabolism of chylomicrons. Chevreuil O, et al. **Biochem J** 1996 Dec 1; 320 (Pt 2):437–44

Opposite effects of basic fibroblast growth factor and heparin on heparin/heparan sulfate degrading enzymes from Flavobacterium heparinum. Cavari S, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):823–31

Intracellular calcium variation in heparin–capacitated bovine sperm. Córdoba M, et al. **Biochem Mol Biol Int** 1997 Apr; 41(4):725–33

A basic compositional requirement of agents having heparin-like cell-modulating activities. Weisz PB, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):149–57

Heparin modulates endothelial production of monocyte chemotactic peptide-1 following interferon-gamma stimulation. Douglas MS, et al. **Biochem Soc Trans** 1997 May;25(2):194S

The antioxidant activity of heparins. Grant D, et al. **Biochem Soc Trans** 1996 May;24(2):194S

Endothelial cells: heparin modulates the induction of functional antigen presentation by IFN-gamma. Rix DA, et al. **Biochem Soc Trans** 1997 May;25(2):195S

The oligosaccharide side chain on Asn-135 of alpha-antithrombin, absent in beta-antithrombin, decreases the heparin affinity of the inhibitor by affecting the heparin-induced conformational change. Turk B, et al. **Biochemistry** 1997 Jun 3;36(22):6682–91

The inhibition of human factor Xa by plasminogen activator inhibitor type 1 in the presence of calcium ion, and its enhancement by heparin and vitronectin. Urano T, et al. **Biochim Biophys Acta** 1996 Dec 5;1298(2):199–208

Heparin fails to potentiate the effects of IL-1 beta-mediated bone resorption of fetal rat long bones in vitro. Panagakos FS, et al. **Biochimie** 1995;77(12):915–8

Mechanism of thrombin inhibition by antithrombin and heparin cofactor II in the presence of heparin. Maaroufi RM, et al. **Biomaterials** 1997 Feb;18(3):203–11

Mechanism of thrombin inhibition by heparin cofactor II in the presence of dermatan sulphates, native or oversulphated, and a heparin-like dextran derivative. Maaroufi RM, et al. **Biomaterials** 1997 Feb;18(4):359–66

Reversal of RT-PCR inhibition observed in heparinized clinical specimens. Jung R, et al. **Biotechniques** 1997 Jul; 23(1):24, 26, 28

A histomorphometric comparison of the effects of heparin and low-molecular-weight heparin on cancellous bone in rats. Muir JM, et al. **Blood** 1997 May 1;89(9):3236–42

The effect of heparin on the regulation of factor VIIa–tissue factor activity by tissue factor pathway inhibitor. Hamamoto T, et al. **Blood Coagul Fibrinolysis** 1996 Jun; 7(4):470–6

In vitro inhibition of heparin-induced platelet aggregation in plasma from patients with HIT by SR 121566, a newly developed Gp IIb/IIIa antagonist [letter] Hérault JP, et al. **Blood Coagul Fibrinolysis** 1997 Apr;8(3):206–7

A proposed model to monitor heparin therapy using the concentrated thrombin time which allows standardisation of reagents and improved estimation of heparin concentrations. Ray MJ, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):515–21

Interaction of reteplase with heparin. A comparison between reteplase and alteplase. Rijken DC, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):561–6

Platelet aggregation, sensitivity to prostaglandin E1 and thromboxane A2 release in recombinant hirudin- and heparin-anticoagulated blood. Viigimaa M, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):259–61

Antithrombotic actions of the thrombin inhibitor, argatroban, in a canine model of coronary cyclic flow: comparison with heparin. Duval N, et al. **Br J Pharmacol** 1996 Jun; 118(3):727–33

The interaction between heparin and polylysine: a circular dichroism and molecular modelling study. Mulloy B, et al. **Braz J Med Biol Res** 1996 Jun;29(6):721–9

Heparin reverses Rhodamine 123 extrusion by multidrug resistant cells. Maia RC, et al. **Cancer Lett** 1996 Aug 23; 106(1):101–8

Basic fibroblast growth factor and heparin influence coronary arteriolar tone by causing endothelium-dependent dilation. Tiefenbacher CP, et al. **Cardiovasc Res** 1997 May; 34(2):411–7

Effects of sera, basic fibroblast growth factor, heparin and cyclic AMP-stimulation on proliferation of human vascular endothelial cells. Gillis C, et al. **Cell Mol Biol (Noisy-le-grand)** 1995 Dec;41(8):1131–8

Release of lipopolysaccharide toxicity-modulating proteins in patients undergoing cardiopulmonary bypass using noncoated and heparin-coated extracorporeal circuits. A clinical pilot study. Bouma M, et al. **Chest** 1997 Mar; 111(3):577–83

Diverse effects of heparin on mitogen-activated protein kinase-dependent signal transduction in vascular smooth muscle cells. Daum G, et al. **Circ Res** 1997 Jul;81(1):17–23

Effect of nonspecific binding to plasma proteins on the antithrombin activities of unfractionated heparin, low-molecular-weight heparin, and dermatan sulfate. Cosmi B, et al. **Circulation** 1997 Jan 7;95(1):118–24

Effects of GP IIb/IIIa receptor monoclonal antibody (7E3), heparin, and aspirin in an ex vivo canine arteriovenous shunt model of stent thrombosis. Makkar RR, et al. **Circulation** 1997 Feb 18;95(4):1015–21

Endogenous basic fibroblast growth factor displaced by heparin from the lumenal surface of human blood vessels is preferentially sequestered by injured regions of the vessel wall. Medalion B, et al. **Circulation** 1997 Apr 1; 95(7):1853–62

Association of heparin-resistant thrombin activity with acute ischemic complications of coronary interventions. Oltrona L, et al. **Circulation** 1996 Nov 1;94(9):2064–71

High-dose heparin decreases nitric oxide production by cultured bovine endothelial cells. Upchurch GR Jr, et al. **Circulation** 1997 Apr 15;95(8):2115–21

Examination of the mechanism by which heparin antagonizes activation of a model endothelium by interferon-gamma (IFN-gamma). Douglas MS, et al. **Clin Exp Immunol** 1997 Mar;107(3):578–84

Promotion of nitric oxide formation by heparin in cultured aortic endothelial cells from spontaneously hypertensive rats. Minami M, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S146–7

Clinically important drug interactions with anticoagulants. An update. Harder S, et al. **Clin Pharmacokinet** 1996 Jun; 30(6):416–44 (224 ref.)

Synergistic action of heparin and serum on basic fibroblast growth factor-modulated DNA synthesis and

mitochondrial activity of cultured bovine corneal endothelial cells. Hoppenreijs VP, et al. **Cornea** 1996 Jul; 15(4):386–96

The human pharmacology of thrombin inhibition [published erratum appears in Coron Artery Dis 1997 Jan;8(1):A4] FitzGerald GA. **Coron Artery Dis** 1996 Dec;7(12):911–8 (108 ref.)

Potential advantages of direct-acting thrombin inhibitors. Philippides GJ, et al. **Coron Artery Dis** 1996 Jul; 7(7):497–507 (100 ref.)

Chemokine-dependent upregulation of CD11b on specific leukocyte subpopulations in human whole blood: effect of anticoagulant on rantes and MIP-1 beta stimulation. Conklyn MJ, et al. **Cytokine** 1996 Oct;8(10):762–6

New data on the pharmacology of heparin and low molecular weight heparins. Samama MM, et al. **Drugs** 1996;52 Suppl 7:8–14; discussion 14–5 (24 ref.)

Heparin inhibition of insulin-like growth factor-binding protein-3 binding to human fibroblasts and rat glioma cells: role of heparan sulfate proteoglycans. Yang YW, et al. **Endocrinology** 1996 Oct;137(10):4363–71

Heparin-induced structural modifications and oxidative cleavage of human serum albumin in the absence and presence of glucose--implications for transcapillary leakage of albumin in hyperglycaemia. Finotti P, et al. **Eur J Biochem** 1997 Aug 1;247(3):1000–8

Cell activation and thrombin generation in heparin bonded cardiopulmonary bypass circuits using a novel in vitro model. Bannan S, et al. **Eur J Cardiothorac Surg** 1997 Aug; 12(2):268–75

How harmless is FFA enhancement? Tesserommatis C, et al. **Eur J Drug Metab Pharmacokinet** 1996 Jul-Sep; 21(3):213–5

The platelet proaggregating and potentiating effects of unfractionated heparin, low molecular weight heparin and heparinoid in intensive care patients and healthy controls. Burgess JK, et al. **Eur J Haematol** 1997 Apr;58(4):279–85

Heparin inhibits acetylcholine receptor aggregation at two distinct steps in the agrin-induced pathway. Hopf C, et al. **Eur J Neurosci** 1997 Jun;9(6):1170–7

Failure of heparin to inhibit the expression of the thrombin receptor following endothelial injury of the rabbit carotid artery. Guitteny AF, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):157–62

Negative inotropic effect of heparin on tension development in rat skinned skeletal muscle fibres. Talon S, et al. **Eur J Pharmacol** 1997 May 26;327(1):33–40

IP3 receptor antagonist heparin uncompetitively inhibits [3H](+)-SKF-10047 binding to sigma receptors. Tsao LI, et al. **Eur J Pharmacol** 1996 Sep 5;311(1):R1–2

Selective enhancement of antagonist ligand binding at muscarinic M2 receptors by heparin due to receptor uncoupling. Wang SZ, et al. **Eur J Pharmacol** 1996 Jan 18;296(1):113–8

Heparin-like glycosaminoglycans inhibit leukocyte adhesion to endotoxin-activated human vascular endothelial cells under nonstatic conditions. Kitamura N, et al. **Eur Surg Res** 1996;28(6):428–35

Fibroblast growth factor-1 induction of delayed-early mRNA expression in NIH 3T3 cells is prolonged by heparin addition. Donohue PJ, et al. **Exp Cell Res** 1997 Jul 10;234(1):139–46

Cationic proteins increase the permeability of cultured rabbit tracheal epithelial cells: modification by heparin and extracellular calcium. Uchida DA, et al. **Exp Lung Res** 1996 Jan-Feb;22(1):85–99

Chemical modifications of heparin that diminish its anticoagulant but preserve its heparanase-inhibitory, angiostatic, anti-tumor and anti-metastatic properties. Lapierre F, et al. **Glycobiology** 1996 Apr;6(3):355–66

A unique trisaccharide sequence in heparin mediates the early step of antithrombin III activation. Petitou M, et al. **Glycobiology** 1997 Apr;7(3):323–7

Saccharide anions as inhibitors of the malaria parasite. Clark DL, et al. **Glycoconj J** 1997 Jun;14(4):473–9

Anticoagulant effect of unfractionated heparin in antithrombin-depleted plasma in vitro. Krulder JW, et al. **Haemostasis** 1996 Mar-Apr;26(2):85–9

Influence of heparin, heparin plus aprotinin and hirudin on contact activation in a cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May; 32(1–3):57–61

Heparin-coated devices and high-dose aprotinin optimally inhibit contact system activation in an in vitro cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May;32(1–3):128–30

Low-dose heparin treatment does not inhibit SW480 human colon cancer growth and metastasis in vivo. Antachopoulos CT, et al. **In Vivo** 1996 Sep-Oct;10(5):527–31

Global and extended coagulation monitoring during extracorporeal lung assist with heparin-coated systems in ARDS patients. Gerlach M, et al. **Int J Artif Organs** 1997 Jan;20(1):29–36

Heparin delays tooth morphogenesis and cell differentiation. Unda F, et al. **Int J Dev Biol** 1996;Suppl 1:247S–248S

Effect of "decreasing of sensitivity" to heparin of casein kinase II type (CK II) in early development of loach Misgurnus fossilis L. Zemskov EA, et al. **Int J Dev Biol** 1996;Suppl 1:235S–236S

Basic-fibroblast-growth-factor-mediated de novo angiogenesis is more effectively suppressed by low-molecular-weight than by high-molecular-weight heparin. Norrby K, et al. **Int J Microcirc Clin Exp** 1996 Jan-Feb;16(1):8–15

Inhibitory effect of heparin on red blood cell invasion by Theileria sergenti merozoites. Hagiwara K, et al. **Int J Parasitol** 1997 May;27(5):535–9

Effect of pretreatment with heparin on pulmonary and cutaneous response. Kalpaklioğlu AF, et al. **J Asthma** 1997; 34(4):337–43

Heparin promotes proteolytic inactivation by thrombin of a reactive site mutant (L444R) of recombinant heparin cofactor II. Ciaccia AV, et al. **J Biol Chem** 1997 Jan 10; 272(2):888–93

Regulation of protein kinase Cmu by basic peptides and heparin. Putative role of an acidic domain in the activation of the kinase. Gschwendt M, et al. **J Biol Chem** 1997 Aug 15;272(33):20742–6

Protein kinase C alpha expression is required for heparin inhibition of rat smooth muscle cell proliferation in vitro and in vivo. Herbert JM, et al. **J Biol Chem** 1996 Oct 18; 271(42):25928–35

Heparin-induced self-association of fibroblast growth factor-2. Evidence for two oligomerization processes. Herr AB, et al. **J Biol Chem** 1997 Jun 27;272(26):16382–9

Functional requirements for inhibition of thrombin by antithrombin III in the presence and absence of heparin. Tsiang M, et al. **J Biol Chem** 1997 May 2;272(18):12024–9

The mechanism of anticoagulant activity of a novel heparinoid sulfated glucoside-bearing polymer. Sakamoto N, et al. **J Biomater Sci Polym Ed** 1997;8(7):545–53

Heparin and basic fibroblast growth factor are associated with preservation of latissimus cardiomyoplasties in goats: a retrospective study. Bailey WF, et al. **J Card Surg** 1996 Jul-Aug;11(4):247–55

Age-related differences in heparin sensitivity and heparin-protamine interactions in cardiac surgery patients. D'Errico C, et al. **J Cardiothorac Vasc Anesth** 1996 Jun; 10(4):451–7

The activated coagulation time: suitability for monitoring heparin effect and neutralization during pediatric cardiac surgery. Martindale SJ, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):458–63

Methylene blue does not neutralize heparin after cardiopulmonary bypass. Metz S, et al. **J Cardiothorac Vasc Anesth** 1996 Jun;10(4):474–6

Pro: heparin is the best anticoagulant for cardiopulmonary bypass. Rinder CS. **J Cardiothorac Vasc Anesth** 1996 Oct; 10(6):816–8

Effect of methylprednisolone on complement activation during heparin neutralization. Loubser PG. **J Cardiovasc Pharmacol** 1997 Jan;29(1):23–7

Cardiac heparin-releasable lipoprotein lipase activity in fructose-hypertensive rats: effect of coronary vasodilation. Sambandam N, et al. **J Cardiovasc Pharmacol** 1997 Jul; 30(1):110–7

Heparin and protamine stimulate the production of nitric oxide. Li JM, et al. **J Cardiovasc Surg (Torino)** 1996 Oct; 37(5):445–52

Calcium waves along the cleavage furrows in cleavage-stage Xenopus embryos and its inhibition by heparin. Muto A, et al. **J Cell Biol** 1996 Oct;135(1):181–90

Mechanisms of inhibition by heparin of PDGF stimulated MAP kinase activation in vascular smooth muscle cells. Pukac LA, et al. **J Cell Physiol** 1997 Jul;172(1):69–78

Anticoagulant synergism of heparin and activated protein C in vitro. Role of a novel anticoagulant mechanism of heparin, enhancement of inactivation of factor V by activated protein C. Petäjä J, et al. **J Clin Invest** 1997 Jun 1;99(11):2655–63

Effects of heparin on the electrophysiological and mechanical properties of early embryonic chick hearts. Alanís J, et al. **J Mol Cell Cardiol** 1997 Sep;29(9):2503–11

Protective effect of dextran sulfate and heparin on adult rat cardiomyocytes damaged by free radicals. Hiebert L, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):229–35

Modulation of Ca2+ channels, charge movement and Ca2+ transients by heparin in frog skeletal muscle fibres. Martínez M, et al. **J Muscle Res Cell Motil** 1996 Oct;17(5):575–94

Glycosaminoglycans in nerve injury: II. Effects on transganglionic degeneration and on the expression of neurotrophic factors. Gorio A, et al. **J Neurosci Res** 1996 Dec 1;46(5):572–80

A peptide derivative (1-70 fragment) of protein SV-IV accelerates human blood coagulation in vitro by selective inhibition of the heparin-induced antithrombin III activation process. Di Micco B, et al. **J Pept Res** 1997 Feb;49(2):174–82

Selective O-desulfation produces nonanticoagulant heparin that retains pharmacological activity in the lung. Fryer A, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):208–19

Artifact of blood pressure recording using heparin-filled catheter: effects on blood pressure and coagulation parameters. Martin V, et al. **J Pharmacol Toxicol Methods** 1996 Oct;36(2):69–72

Platelet deposition on ePTFE grafts coated with fibrin glue with or without FGF-1 and heparin. Zarge JI, et al. **J Surg Res** 1997 Jan;67(1):4–8

Enhancement of the leukocyte-endothelial cell interaction in collecting venules of skeletal muscle by protamine. Habazettl H, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):784–91

Relation of cyclic guanosine monophosphate and cyclic adenosine monophosphate in reducing the toxic effects of protamine administration [letter; comment] Katircioğlu SF, et al. **J Thorac Cardiovasc Surg** 1997 Mar;113(3):617. Comment on: J Thorac Cardiovasc Surg 1996 Jun;111(6):1240–6; discussion 1246–7.

Complement activation by heparin-protamine complexes during cardiopulmonary bypass: effect of C4A null allele. Shastri KA, et al. **J Thorac Cardiovasc Surg** 1997 Sep; 114(3):482–8

Heparin coating of extracorporeal circuits inhibits contact activation during cardiac operations. te Velthuis H, et al. **J Thorac Cardiovasc Surg** 1997 Jul;114(1):117–22

Therapeutic angiogenesis: a comparative study of the angiogenic potential of acidic fibroblast growth factor and heparin. Rosengart TK, et al. **J Vasc Surg** 1997 Aug; 26(2):302–12

Low-molecular-weight heparin (dalteparin) demonstrated a weaker effect on rat bone metabolism compared with heparin. Nishiyama M, et al. **Jpn J Pharmacol** 1997 May; 74(1):59–68

Heparin and heparinoids prevent the binding of immune complexes containing nucleosomal antigens to the GBM and delay nephritis in MRL/lpr mice. van Bruggen MC, et al. **Kidney Int** 1996 Nov;50(5):1555–64

Inhibition of mitogenesis and c-fos induction in mesangial cells by heparin and heparan sulfates. Wang A, et al. **Kidney Int** 1996 Feb;49(2):437–48

Impairment of muscarinic stimulation of adenylyl cyclase by heparin in rat olfactory bulb. Olianas MC, et al. **Life Sci** 1997;61(5):515–22

Stimulation of collagenase (matrix metalloproteinase-1) synthesis in histiotypic epithelial cell culture by heparin is enhanced by keratinocyte growth factor. Putnins EE, et al. **Matrix Biol** 1996 Apr;15(1):21–9

Effects of heparin treatment on hemostatic abnormalities in obese non-insulin-dependent diabetic patients. Avellone G, et al. **Metabolism** 1997 Aug;46(8):930–4

Chlamydia trachomatis glycosaminoglycan-dependent and independent attachment to eukaryotic cells. Chen JC, et al. **Microb Pathog** 1997 Jan;22(1):23–30

Oligodeoxynucleotides enhance lipopolysaccharide-stimulated synthesis of tumor necrosis factor: dependence on phosphorothioate modification and reversal by heparin. Hartmann G, et al. **Mol Med** 1996 Jul;2(4):429–38

Oviduct fluid and heparin induce similar surface changes in bovine sperm during capacitation: a flow cytometric study using lectins. Mahmoud AI, et al. **Mol Reprod Dev** 1996 Apr;43(4):554–60

Changes in lectin binding to bovine sperm during heparin-induced capacitation. Medeiros CM, et al. **Mol Reprod Dev** 1996 Aug;44(4):525–32

Low polymorphonuclear cell degranulation during citrate anticoagulation: a comparison between citrate and heparin dialysis. Bos JC, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1387–93

Effect of glucose and heparin on mesangial alpha 1(IV)COLL and MMP-2/TIMP-2 mRNA expression. Caenazzo C, et al. **Nephrol Dial Transplant** 1997 Mar; 12(3):443–8

Heparin promotes beta-secretase cleavage of the Alzheimer's amyloid precursor protein. Leveugle B, et al. **Neurochem Int** 1997 Jun;30(6):543–8

Neurone-specific enolase and Sangtec 100 assays during cardiac surgery: Part I--The effects of heparin, protamine and propofol. Gao F, et al. **Perfusion** 1997 May;12(3):163–5

Complement consumption during cardiopulmonary bypass: comparison of Duraflo II heparin-coated and uncoated circuits in fully heparinized patients. Hamulu A, et al. **Perfusion** 1996 Jul;11(4):333–7

Biocompatibility in heparin-coated extracorporeal circuits. Hsu LC. **Perfusion** 1996 May;11(3):256–63 (32 ref.)

Clinical evidence of improved biocompatibility using heparin-coated surfaces. Matheve C. **Perfusion** 1996 May; 11(3):264–9 (14 ref.)

Antithrombotic and platelet activating effects of heparin in prevention of microarterial thrombosis. Arnljots B, et al. **Plast Reconstr Surg** 1997 Apr;99(4):1122–8

Effect of increased uptake of plasma fatty acids by the liver on lipid metabolism in the hepatocellular nuclei. Bucki R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Jul; 57(1):27–31

The effect of inhaled heparin and related glycosaminoglycans on allergen-induced eosinophil infiltration in guinea-pigs. Seeds EA, et al. **Pulm Pharmacol** 1995 Apr-Jun; 8(2–3):97–105

Heparin decreases blood pressure and response to exogenous endothelin but does not protect against chronic experimental cyclosporine nephropathy. Bennett WM, et al. **Ren Fail** 1997 May;19(3):383–7

Sedimentation of formed elements in distally ischaemic flaps. Birk-Sørensen L, et al. **Scand J Plast Reconstr Surg Hand Surg** 1997 Sep; 31(3):203–11

Circulating cytokines and granulocyte-derived enzymes during complex heart surgery. A clinical study with special reference to heparin-coating of cardiopulmonary bypass circuits. Borowiec JW, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):167–74

Thrombin generation during cardiopulmonary bypass using heparin-coated or standard circuits. Ernofsson M, et al. **Scand J Thorac Cardiovasc Surg** 1995;29(4):157–65

Pharmacology of the low-molecular-weight heparins.

Fareed J, et al. **Semin Thromb Hemost** 1996;22 Suppl 2:13–8 (34 ref.)

Tissue factor and plasminogen activator inhibitor type 2 expression in human stimulated monocytes is inhibited by heparin. Pepe G, et al. **Semin Thromb Hemost** 1997; 23(2):135–41

Thromboelastographic modifications induced by intravenous and subcutaneous heparin administration. Traverso CI, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:53–8 (47 ref.)

Heparin ameliorates brain injury by inhibiting leukocyte accumulation [letter; comment] Yanaka K, et al. **Stroke** 1996 Nov;27(11):2146–7. Comment on: Stroke 1996 Feb;27(2):303–9; discussion 310.

Heparin reverses the procoagulant properties of stimulated endothelial cells. Cadroy Y, et al. **Thromb Haemost** 1996 Jan;75(1):190–5

Heparin ablates force development during platelet mediated clot retraction. Carr ME Jr, et al. **Thromb Haemost** 1996 Apr;75(4):674–8

Depletion of intravascular pools of tissue factor pathway inhibitor (TFPI) during repeated or continuous intravenous infusion of heparin in man. Hansen JB, et al. **Thromb Haemost** 1996 Nov;76(5):703–9

The effect of heparin and its neutralisation on functional assays for factor VIIa, factor VII and TFPI. Cardigan RA, et al. **Thromb Res** 1996 Nov 15;84(4):237–42

Molecular insights into the anticoagulant-induced spontaneous activation of platelets in whole blood–various anticoagulants are not equal. Golański J, et al. **Thromb Res** 1996 Aug 1;83(3):199–216

Comparative intravenous antithrombotic actions of heparin and site directed thrombin inhibitors in a jugular vein clamping model. Hayes JM, et al. **Thromb Res** 1996 Apr 15;82(2):187–91

The inhibitory effect of heparin for vascular smooth muscle cell proliferation or migration is not mediated by u-PA and t-PA. Herbert JM, et al. **Thromb Res** 1997 May 15; 86(4):317–24

Very low doses of unfractionated heparin potentiate the anti–Xa activity of low molecular weight heparin (enoxaparin). Pèrez-Requejo JL, et al. **Thromb Res** 1997 Feb 1;85(3):259–65

Differential effect of a low-molecular-weight heparin (dalteparin) and unfractionated heparin on platelet interaction with the subendothelium under flow conditions. Serra A, et al. **Thromb Res** 1997 Aug 15;87(4):405–10

Systemic release of thrombomodulin, but not from the cardioplegic, reperfused heart during open heart surgery. Valen G, et al. **Thromb Res** 1996 Aug 15;83(4):321–8

Biochemical and pharmacologic rationale for the development of a synthetic heparin pentasaccharide. Walenga JM, et al. **Thromb Res** 1997 Apr 1;86(1):1–36 (141 ref.)

Exogenous heparin induces fibronectin overexpression parallel to angiogenesis in the extracellular matrix of the chick embryo chorioallantoic membrane. Ribatti D, et al. **Tissue Cell** 1997 Apr;29(2):131–6

The mechanism of cold-induced platelet aggregation in the presence of heparin. Akiyama M, et al. **Tohoku J Exp Med** 1995 Dec;177(4):365–74

Efficacy of low-molecular-weight heparin and unfractionated heparin to prevent adhesion of human prostate and bladder carcinoma and melanoma cells to bovine endothelial monolayers. An in vitro study and review of the literature. Lersch C, et al. **Urol Int** 1996; 56(4):230–3

Modified entry and syncytium formation by herpes simplex virus type 1 mutants selected for resistance to heparin inhibition. Pertel PE, et al. **Virology** 1996 Dec 1; 226(1):22–33

Heparin attenuated neutrophil infiltration but did not affect renal injury induced by ischemia reperfusion. Shin CS, et al. **Yonsei Med J** 1997 Jun;38(3):133–41

Effects of oviductal fluid and heparin on fertility and characteristics of porcine spermatozoa. Kim NH, et al. **Zygote** 1997 Feb;5(1):61–5

[Peritoneal instillation of taurolidine and heparin for preventing intraperitoneal tumor growth and trocar metastases in laparoscopic operations in the rat model] Jacobi CA, et al. **Langenbecks Arch Chir** 1997;382(4 Suppl 1):S31–6 (Eng. Abstr.) **(Ger)**

[Does heparin modify the course of chronic abscess-forming peritonitis in the animal model?] Woltmann A, et al. **Langenbecks Arch Chir** 1997;382(2):107–10 (Eng. Abstr.) **(Ger)**

[Effect of heparin on the increase in intracellular calcium caused by inositol 1,4,5-triphosphate in airway epithelial cells] Kondo M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Feb;35(2):173–8 (Eng. Abstr.) **(Jpn)**

[Platelet aggregate formation in peripheral blood anti-coagulated with sodium heparin is facilitated by mixing] Shimasaki AK, et al. **Rinsho Ketsueki** 1997 Apr; 38(4):323–30 (Eng. Abstr.) **(Jpn)**

[Gastrinemia and heparin stimulated secretion of diamine oxidase on the course of diabetic autonomic neuropathy] Loba J, et al. **Pol Merkuriusz Lek** 1997 Jan;2(7):10–3 (Eng. Abstr.) **(Pol)**

[Radioprotective effect of cystamine and heparin in experiments on mice with varying tolerances] Lukashin BP, et al. **Biull Eksp Biol Med** 1996 May;121(5):544–6 **(Rus)**

[The effect of heparin on the activity of the mono–oxygenase glucuronyl– and glutathione transferase systems in ultrasonic damage to the rat liver] Eĭsmont KA, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):42–4 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Differential regulation of extracellular matrix metalloproteinase and tissue inhibitor by heparin and cholesterol in fibroblast cells. Tyagi SC, et al. **J Mol Cell Cardiol** 1997 Jan;29(1):391–404

Actions of heparin in the atherosclerotic process. Engelberg H. **Pharmacol Rev** 1996 Jun;48(2):327–52 (464 ref.)

[Effects of heparin on megakaryocytopoiesis. From fundamental data to clinical applications] Bellucci S, et al. **Ann Med Interne (Paris)** 1997;148(2):150–3 (29 ref.) (Eng. Abstr.) **(Fre)**

STANDARDS

Prophylaxis of intravenous catheter-related thrombophlebitis in cattle. Pusterla N, et al. **Vet Rec** 1996 Sep 21; 139(12):287–9

THERAPEUTIC USE

The effects and uses of heparin in the care of burns that improves treatment and enhances the quality of life. Saliba MJ Jr. **Acta Chir Plast** 1997;39(1):13–6 (34 ref.)

Comparison of carbogen inhalation and intravenous heparin infusion therapies in idiopathic sudden sensorineural hearing loss. Rahko T, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;529:86–7

Transjugular intrahepatic portosystemic shunt (TIPS). Thrombogenicity in stents and its effect on shunt patency. Siegerstetter V, et al. **Acta Radiol** 1997 Jul;38(4 Pt 1):558–64

Exercise training and heparin pretreatment in patients with coronary artery disease. Gagliardi JA, et al. **Am Heart J** 1996 Nov;132(5):946–51

Laser balloon angioplasty combined with local intracoronary heparin therapy: immediate and short-term follow-up results. Glazier JJ, et al. **Am Heart J** 1997 Aug;134(2 Pt 1):266–73

Comparison of heparin therapy for < or = 48 hours to > 48 hours in unstable angina pectoris. Klein LW, et al. **Am J Cardiol** 1997 Feb 1;79(3):259–63

Reactivation of the coagulation system: rationale for long-term antithrombotic treatment. Kontny F. **Am J Cardiol** 1997 Sep 4;80(5A):55E–60E (63 ref.)

Comparison of heparinized and nonheparinized solutions for maintaining patency of arterial and pulmonary artery catheters. Zevola DR, et al. **Am J Crit Care** 1997 Jan; 6(1):52–5

Anti-inflammatory properties of unfractioned heparin in patients with highly active ulcerative colitis: a pilot study [letter] Folwaczny C, et al. **Am J Gastroenterol** 1997 May; 92(5):911–2

Primary thrombocythemia and pregnancy: treatment and outcome in fifteen cases. Pagliaro P, et al. **Am J Hematol** 1996 Sep;53(1):6–10

Effects of conventional vs. low-molecular-weight heparin on lipid profile in hemodialysis patients. Elisaf MS, et al. **Am J Nephrol** 1997;17(2):153–7

Antiphospholipid antibody-associated recurrent pregnancy loss: treatment with heparin and low-dose aspirin is superior to low-dose aspirin alone. Kutteh WH. **Am J Obstet Gynecol** 1996 May;174(5):1584–9

Spontaneous orbital hemorrhage in pregnant women treated with subcutaneous heparin. Chang WJ, et al. **Am J Ophthalmol** 1996 Dec;122(6):907–8

Embolic stroke in a pregnant patient with a mechanical heart valve on optimal heparin therapy. Watson WJ, et al. **Am J Perinatol** 1996 Aug;13(6):371–2

Inhibition of antigen-induced acute bronchoconstriction, airway hyperresponsiveness, and mast cell degranulation by a nonanticoagulant heparin: comparison with a low molecular weight heparin. Ahmed T, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1848–55

Prophylactic administration of histamine 1 and/or histamine 2 receptor blockers in the prevention of heparin- and protamine-related haemodynamic effects. Kanbak M, et al. **Anaesth Intensive Care** 1996 Oct;24(5):559–63

Hypothenar hammer syndrome successfully managed with intravenous prostaglandin E1 and heparin and with correction of the thrombogenic risk profile. A case report. Wieczorek I, et al. **Angiology** 1996 Nov;47(11):1111–6

Case report of acute splenic and superior mesenteric vein thrombosis and its successful medical management. Foo E, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):755–8 (36 ref.)

Recurrence of venous thromboembolism after unfractionated heparin therapy [letter; comment] Kormas N, et al. **Ann Intern Med** 1996 Dec 15;125(12):1012–3. Comment on: Ann Intern Med 1996 Mar 1;124(5):532.

Danaparoid in the prevention of thromboembolic complications. Skoutakis VA. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):876–87 (81 ref.)

A technique to investigate microvascular mural thrombus formation in arteries and veins: II. Effects of aspirin, heparin, r-hirudin, and G-4120. Stockmans F, et al. **Ann Plast Surg** 1997 Jan;38(1):63–8

Morbidity of varicose vein surgery: auditing the benefit of clinical practice [letter; comment] St John P. **Ann R Coll Surg Engl** 1997 Jan;79(1):73. Comment on: Ann R Coll Surg Engl 1996 Jul;78(4):345–9.

Effects of heparin coating of cardiopulmonary bypass circuits on in vitro oxygen free radical production during coronary bypass surgery. Bozdayi M, et al. **Artif Organs** 1996 Sep; 20(9):1008–16

Heparin-coated cardiopulmonary bypass circuits in coronary bypass surgery. Horimoto H, et al. **Artif Organs** 1996 Aug; 20(8):936–40

Peripheral vasoactivity in familial hypercholesterolemic subjects treated with heparin-induced extracorporeal LDL precipitation (HELP). Stadler RW, et al. **Atherosclerosis** 1997 Feb 10;128(2):241–9

Prevention of preeclampsia with heparin and antiplatelet drugs in women with renal disease. North RA, et al. **Aust N Z J Obstet Gynaecol** 1995 Nov;35(4):357–62

Heparin as an adjuvant to thrombolytic therapy in acute myocardial infarction. Metz BK, et al. **Biomed Pharmacother** 1996;50(6–7):243–53 (33 ref.)

Is heparin the ideal anticoagulant in patients with a high plasma leukocyte elastase level? [letter; comment] Suzuki S, et al. **Blood Coagul Fibrinolysis** 1996 Apr;7(3):363–4. Comment on: Blood Coagul Fibrinolysis 1995 Sep;6(6):527–30.

Clinical effects of anticoagulants in suspected acute myocardial infarction. Adding heparin seems justified [letter; comment] James MA. **BMJ** 1997 Jan 18; 314(7075):222. Comment on: BMJ 1996 Sep 14;313(7058):652–9.

A comparison of aspirin and anticoagulation following thrombolysis for myocardial infarction (the AFTER study): a multicentre unblinded randomised clinical trial. Julian DG, et al. **BMJ** 1996 Dec 7;313(7070):1429–31

Clinical effects of anticoagulants in suspected acute myocardial infarction. Use of anticoagulants in suspected acute myocardial infarction in Europe varies [letter; comment] Ketley D, et al. **BMJ** 1997 Jan 18;314(7075):223 . Comment on: BMJ 1996 Sep 14;313(7058):652–9.

Treatment of pregnant women with recurrent miscarriage associated with phospholipid antibodies. No cytogenetic data were reported [letter; comment] Kingdom J, et al. **BMJ** 1997 Aug 9;315(7104):372. Comment on: BMJ 1997 Jan 25;314(7076):253–7.

Randomised controlled trial of aspirin and aspirin plus heparin in pregnant women with recurrent miscarriage associated with phospholipid antibodies (or antiphospholipid antibodies) [see comments] Rai R, et al. **BMJ** 1997 Jan 25;314(7076):253–7. Comment in: BMJ 1997 Jan 25;314(7076):244. Comment in: BMJ 1997 Aug 9;315(7104):372. Comment in: BMJ 1997 Aug 9;315(7104):372; discussion 373. Comment in: BMJ 1997 Aug 9;315(7104):372–3; discussion 373.

Phase II trial of heparin prophylaxis for veno-occlusive disease of the liver in children undergoing bone marrow transplantation. Rosenthal J, et al. **Bone Marrow Transplant** 1996 Jul;18(1):185–91

Induction of monocyte tissue factor procoagulant activity during coronary artery bypass surgery is reduced with heparin-coated extracorporeal circuit. Barstad RM, et al. **Br J Haematol** 1996 Sep;94(3):517–25

Efficacy and safety of enoxaparin versus unfractionated heparin for prevention of deep vein thrombosis in elective cancer surgery: a double-blind randomized multicentre trial with venographic assessment. ENOXACAN Study Group. **Br J Surg** 1997 Aug;84(8):1099–103

Comparison of the cost of preventing postoperative deep vein thrombosis with either unfractionated or low molecular weight heparin [see comments] Bergqvist D, et al. **Br J Surg** 1996 Nov;83(11):1548–52. Comment in: ACP J Club 1997 Mar–Apr;126(2):51.

Low molecular weight heparin and unfractionated heparin in thrombosis prophylaxis after major surgical intervention: update of previous meta-analyses. Koch A, et al. **Br J Surg** 1997 Jun;84(6):750–9

Heparin after acute myocardial infarction [see comments] Commerford PJ. **Cardiovasc Drugs Ther** 1997 Apr; 11(2):101–9 (43 ref.). Comment in: Cardiovasc Drugs Ther 1997 Apr;11(2):97–100.

Heparin and streptokinase [editorial; comment] Sobel BE. **Cardiovasc Drugs Ther** 1997 Apr;11(2):97–100 (31 ref.). Comment on: Cardiovasc Drugs Ther 1997 Apr;11(2):101–9. Comment on: Cardiovasc Drugs Ther 1997 Apr;11(2):111–9.

Is heparin of value in the management of acute myocardial infarction? [see comments] White HD. **Cardiovasc Drugs Ther** 1997 Apr;11(2):111–9 (73 ref.). Comment in: Cardiovasc Drugs Ther 1997 Apr;11(2):97–100.

Treatment alternatives for axillary-subclavian vein thrombosis: long-term follow-up. AbuRahma AF, et al. **Cardiovasc Surg** 1996 Dec;4(6):783–7

Successful repair of intimal dissection following coronary angioplasty with a 48-hour inflation of spiral inflation coil and local delivery of heparin. Shimabukuro M, et al. **Cathet Cardiovasc Diagn** 1996 Sep;39(1):103–5

Comparison of the effects of two doses of recombinant hirudin compared with heparin in patients with acute myocardial ischemia without ST elevation: a pilot study. Organization to Assess Strategies for Ischemic Syndromes (OASIS) Investigators. **Circulation** 1997 Aug 5; 96(3):769–77

Comparison of low-molecular-weight heparin with

unfractionated heparin acutely and with placebo for 6 weeks in the management of unstable coronary artery disease. Fragmin in unstable coronary artery disease study (FRIC) [see comments] Klein W, et al. **Circulation** 1997 Jul 1;96(1):61–8. Comment in: Circulation 1997 Jul 1;96(1):3–5.

Distinct effects of recombinant desulfatohirudin (Revasc) and heparin on plasma levels of fibrinopeptide A and prothrombin fragment F1.2 in unstable angina. A multicenter trial. Rao AK, et al. **Circulation** 1996 Nov 15; 94(10):2389–95

Antithrombotic assessment of the effects of combination therapy with the anticoagulants efegatran and heparin and the glycoprotein IIb–IIIa platelet receptor antagonist 7E3 in a canine model of coronary artery thrombosis. Shetler TJ, et al. **Circulation** 1996 Oct 1;94(7):1719–25

Resolution of an aortic mobile mass with anticoagulation without evidence of arterial embolism. Pasierski T, et al. **Clin Cardiol** 1996 Feb;19(2):151–2

Standardization of APTT reagents for heparin therapy monitoring: urgent or fading priority? [editorial; comment] Eby C. **Clin Chem** 1997 Jul;43(7):1105–7. Comment on: Clin Chem 1997 Jul;43(7):1215–22.

Preparation of lyophilized partial thromboplastin time reagent composed of synthetic phospholipids: usefulness for monitoring heparin therapy [see comments] van den Besselaar AM, et al. **Clin Chem** 1997 Jul;43(7):1215–22. Comment in: Clin Chem 1997 Jul;43(7):1105–7.

The usage of heparin in vascular intervention [letter; comment] Randi ML, et al. **Clin Radiol** 1997 Mar; 52(3):247–8. Comment on: Clin Radiol 1996 Feb;51(2):113–6.

Heparin dosing: a comparison of weight-based dosing vs standard dosing. White CM. **Conn Med** 1997 Feb; 61(2):103–4

Angiographic studies demonstrating the need for conjunctive anticoagulation. Bleich SD. **Coron Artery Dis** 1996 Jul; 7(7):516–21 (29 ref.)

Enhancement of recombinant tissue-type plasminogen activator thrombolysis with a selective factor Xa inhibitor derived from the leech Hirudo medicinalis: comparison with heparin and hirudin in a rabbit thrombosis model. Kornowski R, et al. **Coron Artery Dis** 1996 Dec;7(12):903–9

Comparison of the efficacy and safety of low molecular weight heparins and unfractionated heparin in the initial treatment of deep venous thrombosis. An updated meta-analysis. Leizorovicz A. **Drugs** 1996;52 Suppl 7:30–7

The risk of thromboembolism in patients undergoing colorectal surgery. McLeod RS. **Drugs** 1996;52 Suppl 7:38–41 (25 ref.)

Prevention and treatment of venous thromboembolism. Pineo GF, et al. **Drugs** 1996 Jul;52(1):71–92 (163 ref.)

The effect of low dose heparin therapy on complication and survival rates in horses following exploratory celiotomy. Young DR, et al. **Equine Vet J Suppl** 1989 Jun;(7):91–3

Early recanalization of right coronary artery following selective thrombolysis in left coronary artery: angiographic demonstration of thrombus migration [letter] Fineschi M, et al. **Eur Heart J** 1996 Jun;17(6):963–4

Complete heparin-coated cardiopulmonary bypass and low heparin dose reduce complement and granulocyte activation. Ovrum E, et al. **Eur J Cardiothorac Surg** 1996; 10(1):54–60

Heparin-coated circuit in coronary surgery. A clinical study. Sáenz A, et al. **Eur J Cardiothorac Surg** 1996;10(1):48–53

Thrombin inhibitory and clot-specific fibrinolytic activities of the urokinase variant, M23 (rscu-PA-40 kDa/Hir). Schneider J, et al. **Eur J Pharmacol** 1996 Apr 29; 302(1–3):69–77

Heparin during aneurysm repair [letter; comment] Vahl AC, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):425. Comment on: Eur J Vasc Endovasc Surg 1996 Jul;12(1):86–90.

Does the presence of heparin and dexamethasone in the vitrectomy infusate reduce reproliferation in proliferative vitreoretinopathy? Williams RG, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug; 234(8):496–503

The clinical course of deep-vein thrombosis. Prospective long-term follow-up of 528 symptomatic patients. Prandoni P, et al. **Haematologica** 1997 Jul–Aug;82(4):423–8

Subcutaneous low-molecular-weight heparin versus standard heparin and the prevention of thromboembolism in medical inpatients. The Heparin Study in Internal Medicine Group. Harenberg J, et al. **Haemostasis** 1996 May–Jun;26(3):127–39

Comparison of the relative efficacy and safety of low molecular weight heparin and unfractionated heparin for the treatment of venous thrombosis. Hirsh J. **Haemostasis** 1996 Oct;26 Suppl 4:189–98 (20 ref.)

Platelet count and the risk of bleeding in hospitalized patients with venous thromboembolism starting anticoagulant therapy. Monreal M, et al. **Haemostasis** 1997 Mar–Apr; 27(2):91–8

Low molecular weight heparin and unfractionated heparin for prevention of thrombo-embolism in general surgery: a meta-analysis of randomised clinical trials. Palmer AJ, et al. **Haemostasis** 1997 Mar–Apr;27(2):65–74

Efficacy and safety of low molecular weight heparin, unfractionated heparin and warfarin for thrombo-embolism prophylaxis in orthopaedic surgery: a meta-analysis of randomised clinical trials. Palmer AJ, et al. **Haemostasis** 1997 Mar–Apr;27(2):75–84

Effect of antiphospholipid antibodies in women undergoing in-vitro fertilization: role of heparin and aspirin. Kutteh WH, et al. **Hum Reprod** 1997 Jun;12(6):1171–5

Heparin-coated devices and high-dose aprotinin optimally inhibit contact system activation in an in vitro cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May;32(1–3):128–30

Issues of biocompatibility: heparin-coated extracorporeal circuit. Hsu LC. **Int Anesthesiol Clin** 1996 Spring; 34(2):109–22 (58 ref.)

Effect of inhaled heparin on adenosine-induced bronchial hyperreactivity. Ceyhan BB, et al. **Int J Clin Pharmacol Ther** 1997 May;35(5):208–13

Heparin attenuates bleomycin but not silica-induced pulmonary fibrosis in mice: possible relationship with involvement of myofibroblasts in bleomycin, and fibroblasts in silica-induced fibrosis. Piguet PF, et al. **Int J Exp Pathol** 1996 Aug;77(4):155–61

Does continuous heparinization influence platelet function in the intensive care patient? Boldt J, et al. **Intensive Care Med** 1997 May;23(5):567–73

Thrombolysis using plasminogen activator and heparin reduces cerebral no-reflow after resuscitation from cardiac arrest: an experimental study in the cat. Fischer M, et al. **Intensive Care Med** 1996 Nov;22(11):1214–23

Proximally delivered dilute heparin does not improve circuit life in continuous venovenous haemodiafiltration. Leslie GD, et al. **Intensive Care Med** 1996 Nov;22(11):1261–4

Treatment with modified heparins inhibits experimental metastasis formation and leads, in some animals, to long-term survival. Sciumbata T, et al. **Invasion Metastasis** 1996;16(3):132–43

Time course of changes in adenosine 5'-monophosphate airway responsiveness with inhaled heparin in allergic asthma. Polosa R, et al. **J Allergy Clin Immunol** 1997 Mar; 99(3):338–44

Treatment of early symptomatic pulmonary embolism after total joint arthroplasty. Bicalho PS, et al. **J Arthroplasty** 1996 Aug;11(5):522–4

Heparin-like polymers derived from dextran enhance colonic anastomosis resistance to leakage. Meddahi A, et al. **J Biomed Mater Res** 1996 Jul;31(3):293–7

Prevention of thromboembolism with use of recombinant hirudin. Results of a double-blind, multicenter trial comparing the efficacy of desirudin (Revasc) with that of unfractionated heparin in patients having a total hip replacement. Eriksson BI, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):326–33

Effective use of heparin-bonded circuits and lower anticoagulation for coronary artery bypass grafting in Jehovah's Witnesses. Aldea GS, et al. **J Card Surg** 1996 Jan–Feb;11(1):12–7

Recombinant hirudin is a heparin alternative in cardiac surgery [letter; comment] Riess FC, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):538–9. Comment on: J Cardiothorac Vasc Anesth 1996 Jun;10(4):521–30.

Neuraxial anesthesia is contraindicated in patients undergoing heparinization for surgery. Con: neuraxial block is useful in patients undergoing heparinization for surgery. Turnbull KW. **J Cardiothorac Vasc Anesth** 1996 Dec;10(7):961–2

Antithrombotic activity of oral unfractionated heparin. Hiebert LM, et al. **J Cardiovasc Pharmacol** 1996 Jul; 28(1):26–9

Altered mental status in an anticoagulated patient [clinical conference] Nadel ES, et al. **J Emerg Med** 1997 Jan–Feb; 15(1):95–8

Anticoagulants in acute MI. Santiago T, et al. **J Fam Pract** 1997 Jan;44(1):28–9

Management of thromboembolic disease associated with pregnancy. Evans W, et al. **J Matern Fetal Med** 1997 Jan–Feb;6(1):21–7

Reduction of brain injury using heparin to inhibit leukocyte accumulation in a rat model of transient focal cerebral ischemia. I. Protective mechanism. Yanaka K, et al. **J Neurosurg** 1996 Dec;85(6):1102–7

Reversal of protein-losing enteropathy with heparin therapy in three patients with univentricular hearts and Fontan palliation. Donnelly JP, et al. **J Pediatr** 1997 Mar; 130(3):474–8

Anticoagulation without catheter removal in children with catheter-related central vein thrombosis. Kenney BD, et al. **J Pediatr Surg** 1996 Jun;31(6):816–8

Evaluation of an extracorporeal membrane oxygenation system using a nonporous membrane oxygenator and a new method for heparin coating. Kitano Y, et al. **J Pediatr Surg** 1997 May;32(5):691–7

Anticoagulation in venous thrombosis. Schulman S. **J R Soc Med** 1996 Nov;89(11):624–30 (45 ref.)

Lower extremity deep venous thrombolysis: a new approach to obtaining access. Cragg AH. **J Vasc Interv Radiol** 1996 Mar–Apr;7(2):283–8

Prevention of arterial thrombosis using a novel heparin with enhanced antiplatelet activity and reduced anticoagulant activity. Poletti LF, et al. **J Vasc Surg** 1997 Sep; 26(3):366–72

A blinded trial of local recombinant tissue factor pathway inhibitor versus either local or systemic heparin in a vein bypass model. Rapp JH, et al. **J Vasc Surg** 1997 Apr; 25(4):726–9

Fibrin glue containing fibroblast growth factor type 1 and heparin with autologous endothelial cells reduces intimal hyperplasia in a canine carotid artery balloon injury model. Zarge JI, et al. **J Vasc Surg** 1997 May;25(5):840–8; discussion 848–9

Benefit of heparin plus aspirin vs aspirin alone in unstable angina [letter; comment] Blankfield RP. **JAMA** 1996 Dec 18;276(23):1873–4; discussion 1874. Comment on: JAMA 1996 Sep 11;276(10):811–5.

Benefit of heparin plus aspirin vs aspirin alone in unstable angina [letter; comment] Brophy J. **JAMA** 1996 Dec 18; 276(23):1873; discussion 1874. Comment on: JAMA 1996 Sep 11;276(10):811–5.

Benefit of heparin plus aspirin vs aspirin alone in unstable angina [letter; comment] Collins R, et al. **JAMA** 1996 Dec 18;276(23):1873; discussion 1874. Comment on: JAMA 1996 Sep 11;276(10):811–5.

Heparin and exercise treatment in a patient with arteriosclerosis obliterans. Shioji K, et al. **Jpn Circ J** 1997 Aug;61(8):715–8

The International Stroke Trial (IST): a randomised trial of aspirin, subcutaneous heparin, both, or neither among 19435 patients with acute ischaemic stroke. International Stroke Trial Collaborative Group [see comments] **Lancet** 1997 May 31;349(9065):1569–81. Comment in: Lancet 1997 May 31;349(9065):1563.

Aspirin or heparin immediately after a stroke? [see comments] Bousser MG. **Lancet** 1997 May 31;349(9065):1564–5. Comment in: Lancet 1997 May 31;349(9065):1563.

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Cohen A. **Lancet** 1997 Aug 9;350(9075):440; discussion 443–4

Interpretation of IST and CAST stroke trials. International Stroke Trial. Chinese Acute Stroke Trial [letter] Ricci S, et al. **Lancet** 1997 Aug 9;350(9075):441; discussion 443–4

Post-discharge deep-vein thrombosis after orthopaedic surgery [letter; comment] Simini B. **Lancet** 1996 Oct 26; 348(9035):1179; discussion 1179–80. Comment on: Lancet 1996 Jul 27;348(9022):224–8.

Pulmonary embolism after acute stroke [editorial; comment] Stein PD. **Mayo Clin Proc** 1997 Apr;72(4):381. Comment on: Mayo Clin Proc 1997 Apr;72(4):297–300.

Comparison of the antithrombotic effect of the new recombinant hirudin HBW 023 and heparin in small arteries and veins. Zhang B, et al. **Microsurgery** 1996;17(2):89–96

Low-molecular-weight heparin in the treatment of patients with venous thromboembolism. The Columbus Investigators. **N Engl J Med** 1997 Sep 4;337(10):657–62

Heparin in acute coronary disease--requiem for a heavyweight? [editorial; comment] Armstrong PW. **N Engl J Med** 1997 Aug 14;337(7):492–4. Comment on: N Engl J Med 1997 Aug 14;337(7):447–52.

A comparison of low-molecular-weight heparin with unfractionated heparin for unstable coronary artery disease. Efficacy and Safety of Subcutaneous Enoxaparin in Non-Q-Wave Coronary Events Study Group [see comments] Cohen M, et al. **N Engl J Med** 1997 Aug 14; 337(7):447–52. Comment in: N Engl J Med 1997 Aug 14;337(7):492–4.

Aspirin, heparin, and fibrinolytic therapy in suspected acute myocardial infarction. Collins R, et al. **N Engl J Med** 1997 Mar 20;336(12):847–60 (97 ref.)

Management of venous thromboembolism [see comments] Ginsberg JS. **N Engl J Med** 1996 Dec 12;335(24):1816–28 (106 ref.). Comment in: N Engl J Med 1997 May 22;336(21):1528; discussion 1529. Comment in: N Engl J Med 1997 May 22;336(21):1528–9; discussion 1529.

Management of anticoagulation before and after elective surgery. Kearon C, et al. **N Engl J Med** 1997 May 22; 336(21):1506–11 (66 ref.)

Anticoagulation and elective surgery [letter] Shalaby A, et al. **N Engl J Med** 1997 Sep 25;337(13):939; discussion 939–40

A comparison of low-molecular-weight heparin with unfractionated heparin for acute pulmonary embolism. The THESEE Study Group. Tinzaparine ou Heparine Standard: Evaluations dans l'Embolie Pulmonaire. Simonneau G, et al. **N Engl J Med** 1997 Sep 4;337(10):663–9

Heparins for proliferative nephritides? Short review on an advancing topic. Wardle EN. **Nephron** 1996;73(4):515–9 (85 ref.)

The effects of heparin flush on patency of the Groshong catheter: a pilot study. Mayo DJ, et al. **Oncol Nurs Forum** 1996 Oct;23(9):1401–5

A survey of heparin monitoring in Australasia. Mackinlay N, et al. **Pathology** 1996 Nov;28(4):343–7

Thromboembolic prophylaxis in moderate-risk patients undergoing elective abdominal surgery: decision and cost-effectiveness analyses. Mamdani MM, et al. **Pharmacotherapy** 1996 Nov–Dec;16(6):1111–27

Medical treatment of pulmonary embolism. Marra R. **Rays** 1996 Jul–Sep;21(3):425–31 (13 ref.) **(Eng, Ita)**

Resolution of pulmonary embolism: effect of therapy and putative age of emboli. Palla A, et al. **Respiration** 1997; 64(1):50–3

Trends in immunoglobulin G anticardiolipin antibodies in ten successful heparin-treated pregnancies. Ruffatti A, et al. **Rheumatol Int** 1996;16(1):15–8

Is nitric oxide and heparin treatment justified in inflammatory bowel disease? An experimental study. Dobosz M, et al. **Scand J Clin Lab Invest** 1996 Nov;56(7):657–63

Comparison of the relative efficacy and safety of low-molecular-weight heparin and unfractionated heparin for the treatment of venous thrombosis. Hirsh J.

Semin Thromb Hemost 1996;22 Suppl 2:7–12; discussion 29–30 (20 ref.)

Heparin therapy in pediatric patients. Sutor AH, et al. **Semin Thromb Hemost** 1997;23(3):303–19 (219 ref.)

Intraoperative heparin anticoagulation and its reversal. Wakefield TW, et al. **Semin Vasc Surg** 1996 Dec; 9(4):296–302 (86 ref.)

A multicenter randomized double-blind study of enoxaparin compared with unfractionated heparin in the prevention of venous thromboembolic disease in elderly in-patients bedridden for an acute medical illness. The Enoxaparin in Medicine Study Group. Bergmann JF, et al. **Thromb Haemost** 1996 Oct;76(4):529–34

Once-daily subcutaneous dalteparin, a low molecular weight heparin, for the initial treatment of acute deep vein thrombosis. Fiessinger JN, et al. **Thromb Haemost** 1996 Aug;76(2):195–9

Antithrombotic activity of dermatan sulphates, heparins and their combination in an animal model of arterial thrombosis. Iacoviello L, et al. **Thromb Haemost** 1996 Dec;76(6):1102–7

The therapeutic range for heparin therapy: relationship between six activated partial thromboplastin time reagents and two heparin assays. Kitchen S, et al. **Thromb Haemost** 1996 May;75(5):734–9

The potential thrombogenic action of a nonionic radiographic contrast medium used during coronary angiography is offset by heparin during coronary angioplasty. Mukherjee M, et al. **Thromb Haemost** 1996 Nov;76(5):679–81

Decrease in factor VII coagulant activity during percutaneous transluminal coronary angioplasty by heparin-mediated lipolytic action. Mukherjee M, et al. **Thromb Haemost** 1997 Apr;77(4):675–8

Prevention of early reocclusion after thrombolysis of copper coil-induced thrombi in the canine carotid artery: comparison of PEG-hirudin and unfractionated heparin. Rübsamen K, et al. **Thromb Haemost** 1996 Jul;76(1):105–10

Acute ischemic stroke and heparin treatments. Samama MM, et al. **Thromb Haemost** 1997 Jul;78(1):173–9 (54 ref.)

Subcutaneous recombinant hirudin (HBW 023) versus intravenous sodium heparin in treatment of established acute deep vein thrombosis of the legs: a multicentre prospective dose-ranging randomized trial. International Multicentre Hirudin Study Group. Schiele F, et al. **Thromb Haemost** 1997 May;77(5):834–8

Enoxaparin, a low-molecular-weight heparin suppresses prothrombin activation more effectively than unfractionated heparin in patients treated for venous thromboembolism. Grosset AB, et al. **Thromb Res** 1997 Jun 1;86(5):349–54

Low molecular weight heparin and the heparin mobilisable pool of platelet factor 4 are reduced in young survivors of myocardial infarction. Lewandowski K, et al. **Thromb Res** 1996 Mar 15;81(6):615–22

Platelets of patients with peripheral arterial disease are hypersensitive to heparin. Reininger CB, et al. **Thromb Res** 1996 Mar 15;81(6):641–9

Heparin appears to have no significant effect on the blood gas levels in patients with COPD [letter; comment] Uğurman F, et al. **Thromb Res** 1996 Nov 15;84(4):295–6 . Comment on: Thromb Res 1992 Dec 1;68(4–5):435–40.

Flush heparin during cardiac catheterisation prevents long-term coagulation activation in children without APC-resistance-preliminary results. Vielhaber H, et al. **Thromb Res** 1996 Mar 15;81(6):651–6

Epithelial coating techniques in the treatment of interstitial cystitis. Parsons CL. **Urology** 1997 May;49(5A Suppl):100–4

Thromboembolism prophylaxis in surgical patients. Owings JT. **West J Med** 1996 Feb;164(2):166–7

Efficacy and safety of a low-molecular-weight heparin and standard unfractionated heparin for prophylaxis of postoperative venous thromboembolism: European multicenter trial. Kakkar VV, et al. **World J Surg** 1997 Jan;21(1):2–8; discussion 8–9

[Veno-occlusive disease after bone marrow transplantation: preventive effect of heparin] Parquet N, et al. **Ann Med Interne (Paris)** 1997;148(2):132–5 (15 ref.) (Eng. Abstr.) **(Fre)**

[Prescription of heparin in the acute phase of myocardial infarction: expected and observed benefits...] Cador R, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1479–84 (Eng. Abstr.) **(Fre)**

[Antithrombotic therapy in patients with mechanical valve prostheses] Roudaut R, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1543–50 (30 ref.) (Eng. Abstr.) **(Fre)**

[Pregnancy in primary antiphospholipid syndrome. Proposal for a common management protocol] el Kouri D, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1996;25(8):828–31 (Eng. Abstr.) **(Fre)**

[Clinical pilot study on repeated use of heparin, vancomycin, colimycine locked flush solution for central intravenous implanted catheter in oncology] Guillet P, et al. **Pathol Biol (Paris)** 1997 Jun;45(6):506–13 (Eng. Abstr.) **(Fre)**

[Clinical case of the month. Acute mesenteric venous thrombosis treated in a conservative manner] Kolh PH, et al. **Rev Med Liege** 1996 Dec;51(12):744–8 **(Fre)**

[Heparins and curative treatment of venous thromboembolic disease: meta-analysis] Mismetti P, et al. **Therapie** 1997 Jan-Feb;52(1):47–52 (Eng. Abstr.) **(Fre)**

[Prevention with low dosage heparin. Selective or general?] Schmitz-Huebner U. **Internist (Berl)** 1997 Jul;38(7):667–71 (41 ref.) **(Ger)**

[Current approach in antithrombotic treatment during coronary interventions: specific thrombocyte aggregation inhibitors and direct thrombin antagonists in high-risk patients] Meyer BJ. **Schweiz Med Wochenschr** 1996 Nov 16;126(46):1961–9 (43 ref.) (Eng. Abstr.) **(Ger)**

[Comparison between low-molecular and unfractionated heparin in the prevention of thrombosis in patients with total endoprosthetic replacement of hip and knee joint] Rader CP, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb; 135(1):52–7 (Eng. Abstr.) **(Ger)**

[Heparin therapy and coronary cardiopathy] Branzi A, et al. **Cardiologia** 1996 Dec;41(12):1147–54 (67 ref.) **(Ita)**

[Atrial natriuretic factor (ANF) in massive pulmonary embolism: the effects of heparin treatment] Bartolucci L, et al. **Clin Ter** 1996 May;147(5):239–44 (Eng. Abstr.) **(Ita)**

[Assessment of complications of major orthopedic surgery: comparison of indobufen, calcium heparin, and low molecular heparin] Borghi B, et al. **Minerva Anestesiol** 1996 Mar;62(3):93–100 (Eng. Abstr.) **(Ita)**

[The usage of light density heparin (fraxiparin) in the treatment of orbital phlegmonous cellulitis with orbital veins and thrombophlebitis of the cavernous sinus] Jordan J, et al. **Otolaryngol Pol** 1995;49(6):532–42 (Eng. Abstr.) **(Pol)**

[The possibility of using heparin for treatment of bronchial asthma] Miecielica J, et al. **Pneumonol Alergol Pol** 1996; 64(11–12):829–33 (43 ref.) **(Pol)**

[Prophylaxis of postoperative thromboembolism. Randomized prospective study] Manso LC, et al. **Acta Med Port** 1996 Feb-Mar;9(2–3):87–90 (Eng. Abstr.) **(Por)**

[Use of heparin and oral anticoagulants to prevent and treat deep venous thrombosis and pulmonary embolism] Hamerschlak N, et al. **Arq Bras Cardiol** 1996 Sep; 67(3):209–13 (20 ref.) **(Por)**

[Experience with the clinical use of Essaven gel in treating venous diseases] Saenko VF, et al. **Klin Khir** 1996;(7):13–4 **(Rus)**

[The prognosis and control of the efficacy of heparin therapy in patients with diabetic glomerulosclerosis] Pyrig LA, et al. **Klin Med (Mosk)** 1996;74(2):32–5 (Eng. Abstr.) **(Rus)**

[Antithrombotic treatment in acute ischemia stroke] Díez-Tejedor E, et al. **Neurologia** 1995 Dec;10 Suppl 2:48–54 (42 ref.) (Eng. Abstr.) **(Spa)**

[Indication and management of anticoagulants in cerebrovascular disease] Biller J. **Rev Neurol** 1997 Jan; 25(137):120–1 (14 ref.) **(Spa)**

TOXICITY

Comparison of hemorrhagic effect of heparin and human activated protein C with use of Thrombostat 4000. Katsuura Y, et al. **Haemostasis** 1996 Jul-Aug;26(4):203–9

HEPARIN ANTAGONISTS

Protamine sulphate used in combination with thrombin to remove fibrinogen prior to electrophoresis of heparinised plasma [letter] Wright E, et al. **Br J Biomed Sci** 1997 Jun; 54(2):152

Titration of heparinase for removal of the PCR-inhibitory effect of heparin in DNA samples. Taylor AC. **Mol Ecol** 1997 Apr;6(4):383–5

ADMINISTRATION & DOSAGE

Should heparin be reversed after carotid endarterectomy? A randomised prospective trial. Fearn SJ, et al. **Eur J Vasc Endovasc Surg** 1997 Apr;13(4):394–7

A comparison of thromboelastography with heparinase or protamine sulfate added in vitro during heparinized cardiopulmonary bypass. Spiess BD, et al. **Thromb Haemost** 1997 Aug;78(2):820–6

ADVERSE EFFECTS

Ketanserin in the treatment of protamine-induced pulmonary hypertension. van der Starre PJ, et al. **Tex Heart Inst J** 1996;23(4):301–4

ANALYSIS

Evaluation of a new protamine titration method to assay heparin in whole blood and plasma. Schlueter AJ, et al. **Am J Clin Pathol** 1997 May;107(5):511–20

PHARMACOLOGY

Differential effects of polycationic protein on Cl- secretory and Na+ absorptive airways. Smith MD, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):L762–71

The effects of heparinase I and protamine on platelet reactivity. Ammar T, et al. **Anesthesiology** 1997 Jun; 86(6):1382–6

Heparinase-guided thrombelastography in an anticoagulated parturient. Abramson DC, et al. **Br J Anaesth** 1996 Oct; 77(4):556–8

Heterogeneous effects of protamine on human mast cells and basophils. Patella V, et al. **Br J Anaesth** 1997 Jun; 78(6):724–30

The isolated post ischaemic rat heart is more vulnerable to protamine sulphate than the non-ischaemic heart. Halpern P, et al. **Cardiovasc Surg** 1997 Apr;5(2):235–40

Randomized trial of recombinant platelet factor 4 versus protamine for the reversal of heparin anticoagulation in humans. Dehmer GJ, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II347–52

Influence of protamine on adhesion, chemotaxis and proliferation of human vascular smooth muscle cells. Cavalot F, et al. **Diabetologia** 1997 Jan;40(1):67–75

Protamine enhances the activity of human recombinant interferon-gamma. Däubener W, et al. **J Interferon Cytokine Res** 1996 Jul;16(7):531–6

Enhancement of the leukocyte-endothelial cell interaction in collecting venules of skeletal muscle by protamine. Habazettl H, et al. **J Thorac Cardiovasc Surg** 1997 Apr; 113(4):784–91

Complement activation by heparin-protamine complexes during cardiopulmonary bypass: effect of C4A null allele. Shastri KA, et al. **J Thorac Cardiovasc Surg** 1997 Sep; 114(3):482–8

[The effect of synthetic polycation of the quarternary ammonium salts of polymetacryoil lupinin on the ionic permeability of erythrocyte membrane] Makhsudova GT, et al. **Biofizika** 1997 Jan-Feb;42(1):169–73 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

Prophylactic administration of histamine 1 and/or histamine 2 receptor blockers in the prevention of heparin- and protamine-related haemodynamic effects. Kanbak M, et al. **Anaesth Intensive Care** 1996 Oct;24(5):559–63

Restoration of the normal coagulation process: advances in therapies to antagonize heparin. D'Ambra M. **J Cardiovasc Pharmacol** 1996;27 Suppl 1:S58–62 (40 ref.)

The effect of protamine on the epicardial microflow and the graft flow in open-heart surgery. Belboul A, et al. **Perfusion** 1997 Mar;12(2):99–106

Intraoperative heparin anticoagulation and its reversal. Wakefield TW, et al. **Semin Vasc Surg** 1996 Dec; 9(4):296–302 (86 ref.)

Antagonism of SR 90107A/Org 31540-induced bleeding by protamine sulfate in rats and mice. Bernat A, et al. **Thromb Haemost** 1996 Nov;76(5):715–9

HEPARIN-BINDING FIBROBLAST GROWTH FACTOR CLASS I see **FIBROBLAST GROWTH FACTOR, ACIDIC**

HEPARIN-BINDING GROWTH FACTOR, CLASS I see **FIBROBLAST GROWTH FACTOR, ACIDIC**

HEPARIN-BINDING GROWTH FACTOR CLASS II see **FIBROBLAST GROWTH FACTOR, BASIC**

HEPARIN-CLEARING FACTOR see **LIPOPROTEIN LIPASE**

HEPARIN COFACTOR see **ANTITHROMBIN III**

HEPARIN COFACTOR II

ANALYSIS

Influence of cholesterol, triglycerides and fibrinogen on AT III, PC, HC-II and plasminogen measurement [letter] Tosetto A, et al. **Thromb Haemost** 1997 Apr;77(4):804

CHEMISTRY

Arginine 200 of heparin cofactor II promotes intramolecular interactions of the acidic domain. Implication for thrombin inhibition. Ciaccia AV, et al. **J Biol Chem** 1997 May 30; 272(22):14074–9

DEFICIENCY

Association of hyperprolinaemia type I and heparin cofactor II deficiency with CATCH 22 syndrome: evidence for a contiguous gene syndrome locating the proline oxidase gene. Jaeken J, et al. **J Inherit Metab Dis** 1996;19(3):275–7

DRUG EFFECTS

Prevalence of heparin cofactor II deficiency in patients with a history of venous thrombosis. Lopaciuk S, et al. **Pol J Pharmacol** 1996 Jan-Feb;48(1):109–11

GENETICS

Heparin promotes proteolytic inactivation by thrombin of a reactive site mutant (L444R) of recombinant heparin cofactor II. Ciaccia AV, et al. **J Biol Chem** 1997 Jan 10; 272(2):888–93

Heparin facilitates dissociation of complexes between thrombin and a reactive site mutant (L444R) of heparin cofactor II. Han JH, et al. **J Biol Chem** 1997 Mar 28; 272(13):8243–9

Characterization of recombinant heparin cofactor II expressed in insect cells. Ciaccia AV, et al. **Protein Expr Purif** 1995 Dec;6(6):806–12

A heparin cofactor II mutation (HCII Rimini) combined with factor V Leiden or type I protein C deficiency in two unrelated thrombophilic subjects. Bernardi F, et al. **Thromb Haemost** 1996 Oct;76(4):505–9

HEPARIN COFACTOR II

ISOLATION & PURIFICATION

Characterization of recombinant heparin cofactor II expressed in insect cells. Ciaccia AV, et al. **Protein Expr Purif** 1995 Dec;6(6):806–12

METABOLISM

Comparative metabolism and distribution of rabbit heparin cofactor II and rabbit antithrombin in rabbits. Hatton MW, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E824–31

The VITA Project: population-based distributions of protein C, antithrombin III, heparin-cofactor II and plasminogen—relationship with physiological variables and establishment of reference ranges. Rodeghiero F, et al. **Thromb Haemost** 1996 Aug;76(2):226–33

Sulfated polysaccharide from the leaves of Artemisia Princeps activates heparin cofactor II independently of the Lys173 and Arg189 residues of heparin cofactor II. Hayashi T, et al. **Thromb Res** 1997 Jul 1;87(1):105–12

Active site for heparin cofactor II in low molecular mass dermatan sulfate. Contribution to the antithrombotic activity of fractions with high affinity for heparin cofactor II. Mascellani G, et al. **Thromb Res** 1996 Oct 1;84(1):21–32

PHARMACOLOGY

Mechanism of thrombin inhibition by heparin cofactor II in the presence of dermatan sulphates, native or oversulphated, and a heparin-like dextran derivative. Maaroufi RM, et al. **Biomaterials** 1997 Feb;18(4):359–66

Mechanism of thrombin inhibition by antithrombin and heparin cofactor II in the presence of heparin. Maaroufi RM, et al. **Biomaterials** 1997 Feb;18(3):203–11

Heparin cofactor II–dependent antithrombin activity of calcium spirulan. Hayakawa Y, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):554–60

Regulation of tissue factor initiated thrombin generation by the stoichiometric inhibitors tissue factor pathway inhibitor, antithrombin-III, and heparin cofactor-II. van 't Veer C, et al. **J Biol Chem** 1997 Feb 14;272(7):4367–77

PHYSIOLOGY

Thrombin-inhibitor complexes in the blood during and after delivery. Andersson T, et al. **Thromb Res** 1996 Apr 15; 82(2):109–17

HEPARIN, LOW-MOLECULAR-WEIGHT

Pharmacokinetics and tolerability of a new low molecular mass heparin (RO–11) in healthy volunteers—a dose-finding study within the therapeutical range. Falkon L, et al. **Thromb Haemost** 1997 Jan;77(1):133–6

[Evaluation of an intervention on the prescription and biological surveillance of low-molecular weight heparins in medicine] Fiessinger JN, et al. **Presse Med** 1996 Nov 23;25(36):1777–80 (Eng. Abstr.) **(Fre)**

ADMINISTRATION & DOSAGE

Ardeparin cleared for marketing [news] **Am J Health Syst Pharm** 1997 Jul 15;54(14):1575

Use of low-dose low molecular weight heparin in hemodialysis. Lai KN, et al. **Am J Kidney Dis** 1996 Nov; 28(5):721–6

Can low molecular weight heparin be used in pregnant women? Borg JY. **Ann Med Interne (Paris)** 1996 Sep;147 Suppl 1:45–7 (20 ref.)

Low-molecular-weight heparin: prophylaxis and treatment of venous thromboembolism. Pineo GF, et al. **Annu Rev Med** 1997;48:79–91 (98 ref.)

Inhibition of fibro-intimal hyperplasia in a polytetrafluoroethylene vascular graft with standard heparin and low molecular weight heparin. Taylor A, et al. **Aust N Z J Surg** 1996 Nov;66(11):764–7

Optimal duration of oral anticoagulant therapy following deep vein thrombosis of lower limbs. Bounameaux H, et al. **Blood Coagul Fibrinolysis** 1996 Jul;7(5):507–14 (37 ref.)

Efficacy of low-molecular-weight heparin delivery with the Dispatch catheter following balloon angioplasty in the rabbit iliac artery. Baumbach A, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):303–7

Local drug delivery with porous balloons in the rabbit: assessment of vascular injury for an improvement of application parameters. Herdeg C, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):308–14

Time course of smooth muscle cell proliferation after local drug delivery of low-molecular-weight heparin using a porous balloon catheter. Oberhoff M, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):268–74

Intramural drug delivery by direct injection within the arterial wall: first clinical experience with a novel intracoronary delivery-infiltrator system. Pavlides GS, et al. **Cathet Cardiovasc Diagn** 1997 Jul;41(3):287–92

Unresolved issues in the prevention of venous thromboembolism. Baglin T. **Drugs** 1996;52 Suppl 7:1–6; discussion 6–7 (30 ref.)

The postdischarge risk of venous thromboembolism after hip replacement. The role of prolonged prophylaxis. Bergqvist D. **Drugs** 1996;52 Suppl 7:55–9 (47 ref.)

Porous balloon delivery of low molecular weight heparin in the dog coronary artery. Baumbach A, et al. **Eur Heart J** 1996 Oct;17(10):1538–45

Low molecular weight heparins: a valuable tool in the treatment of acute coronary syndromes. Wallentin L. **Eur Heart J** 1996 Oct;17(10):1470–6 (90 ref.)

Comparison of clinical outcome of fixed-dose subcutaneous low molecular weight heparin (tinzaparin) with conventional heparin in unstable angina: a pilot study. Suvarna TT, et al. **Indian Heart J** 1997 Mar–Apr; 49(2):159–62

Thromboembolic prophylaxis in orthopaedic trauma patients: a comparison between fixed dose and an individually adjusted dose of a low molecular weight heparin [letter; comment] Warwick D. **Injury** 1997 Apr;28(3):233–4. Comment on: Injury 1996 Jul;27(6):385–90.

Long-term effects of low molecular weight heparin on lipid parameters in hemodialysis patients. Elisaf MS, et al. **Int Angiol** 1996 Sep;15(3):252–6

Use of low molecular weight heparin in postangioplasty management. Chow WH, et al. **Int J Cardiol** 1997 Jan 3; 58(1):83–5

Low molecular weight heparin (reviparin) in percutaneous transluminal coronary angioplasty. Results of a randomized, double-blind, unfractionated heparin and placebo-controlled, multicenter trial (REDUCE trial). Reduction of Restenosis After PTCA, Early Administration of Reviparin in a Double-Blind Unfractionated Heparin and Placebo-Controlled Evaluation. Karsch KR, et al. **J Am Coll Cardiol** 1996 Nov 15;28(6):1437–43

Perioperative low-molecular-weight heparin [letter; comment] Carter S. **J Bone Joint Surg Br** 1996 Jan; 78(1):167–8. Comment on: J Bone Joint Surg Br 1995 Sep;77(5):715–9.

Perioperative low molecular weight heparin for infrageniculate bypass. McMillan WD, et al. **J Vasc Surg** 1997 May;25(5):796–801; discussion 801–2

Comparison of the hemodynamic and hematologic toxicity of a protamine variant after reversal of low-molecular-weight heparin anticoagulation in a canine model. Hulin MS, et al. **Lab Anim Sci** 1997 Apr; 47(2):153–60

Activated clotting time is not a sensitive parameter to monitor anticoagulation with low molecular weight heparin in hemodialysis. Greiber S, et al. **Nephron** 1997; 76(1):15–9

Low-molecular-weight heparin and lipoprotein(a) in patients with chronic renal failure [letter] Sagripanti A, et al. **Nephron** 1997;76(1):123–4

Dosage, anticoagulant, and antithrombotic effects of heparin and low-molecular-weight heparin in the treatment of deep vein thrombosis. Harenberg J, et al. **Semin Thromb Hemost** 1997;23(1):83–90

Treatment of deep vein thrombosis with low-molecular-weight heparins: a consensus statement of the Gesellschaft für Thrombose-und Hämostaseforschung (GTH). Harenberg J, et al. **Semin Thromb Hemost** 1997; 23(1):91–6 (28 ref.)

Prevention of recurrences after deep venous thrombosis: role of low-molecular-weight heparins. Pini M. **Semin Thromb Hemost** 1997;23(1):51–4 (18 ref.)

Efficacy and safety of low molecular weight heparin (ardeparin sodium) compared to warfarin for the prevention of venous thromboembolism after total knee replacement surgery: a double-blind, dose-ranging study. Ardeparin Arthroplasty Study Group. Heit JA, et al. **Thromb Haemost** 1997 Jan;77(1):32–8

A 6-month venographic follow-up in 164 patients with acute deep vein thrombosis. Holmström M, et al. **Thromb Haemost** 1997 Aug;78(2):803–7

Systemic thrombin generation and activity resistant to low molecular weight heparin administered prior to streptokinase in patients with acute myocardial infarction. Nilsen DW, et al. **Thromb Haemost** 1997 Jan;77(1):57–61

Absolute and comparative subcutaneous bioavailability of ardeparin sodium, a low molecular weight heparin. Troy S, et al. **Thromb Haemost** 1997 Aug;78(2):871–5

Comparison of the effects of different low molecular weight heparins on the hemostatic system activation in vivo in man. Wolzt M, et al. **Thromb Haemost** 1997 Aug; 78(2):876–9

Topical application of low molecular weight heparin in a rabbit traumatic anastomosis model. Fu K, et al. **Thromb Res** 1997 Jun 1;86(5):355–61

Antithrombotic effects of aspirin and LMWH in a laser-induced model of arterials and venous thrombosis. Imbault P, et al. **Thromb Res** 1996 Jun 15;82(6):469–78

[In recent studies patients with deep venous thrombosis (popliteal vein, femoral vein) were treated on an ambulatory basis with low molecular weight heparin (without immobilization!)] Wagner T. **Internist (Berl)** 1996 Sep;37(9):943 **(Ger)**

[Health care economics evaluation of inpatient treatment of venous thrombosis with unfractionated heparin versus subcutaneous low molecular weight heparin at home] Osterkorn D, et al. **Med Klin** 1996 Sep 15;91(9):607–9 (Eng. Abstr.) **(Ger)**

[Low molecular weight heparin: immediate therapy of stroke? A discussion of the study by Kay et al.: Low molecular weight heparin for treatment of acute ischemic stroke (letter)] Sporer B, et al. **Nervenarzt** 1996 Oct; 67(10):886–7 **(Ger)**

[Low molecular weight heparin in acute ischemic cerebrovascular disease (letter)] Dahl T, et al. **Tidsskr Nor Laegeforen** 1997 Feb 10;117(4):561–2 **(Nor)**

[A trial of the use of low-molecular-weight heparin (fraksiparin) in myocardial infarct] Savenkov MP, et al. **Ter Arkh** 1996;68(8):8–12 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Necrotizing skin lesions induced by low-molecular-weight heparin after total knee arthroplasty. Plath J, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):443–5

Heparin-induced thrombocytopenia with thrombotic complications during prophylactic treatment with low-molecular-weight heparin. de Raucourt E, et al. **Blood Coagul Fibrinolysis** 1996 Nov;7(8):786–8

A fatal low-molecular-weight heparin-associated thrombocytopenia after hip surgery: possible usefulness of PF4-heparin ELISA test. Elalamy I, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):665–71

Osteoporosis and vertebral collapse following low-dose, low molecular weight heparin therapy in a young patient. Sivakumaran M, et al. **Clin Lab Haematol** 1996 Mar; 18(1):55–7

Delayed hypersensitivity at the injection sites of a low-molecular-weight heparin. Moreau A, et al. **Contact Dermatitis** 1996 Jan;34(1):31–4

Antibody-induced arterial thromboembolism resulting in amputation after total knee arthroplasty. Markovich GD, et al. **J Arthroplasty** 1997 Apr;12(3):350–2

Calcifying panniculitis in a child after renal transplantation. Koch Nogueira PC, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):216–8

Heparin induced thrombocytopenia after low molecular weight heparin treatment: a case report. Illuminati G, et al. **Riv Eur Sci Med Farmacol** 1996 Sep–Dec;18(5–6):225–8

Cross-reactivity study of low molecular weight heparins and heparinoid in heparin-induced thrombocytopenia. Vun CM, et al. **Thromb Res** 1996 Mar 1;81(5):525–32

Thromboembolic complications in a patient with heparin-induced thrombocytopenia (HIT) showing cross-reactivity to a low molecular weight heparin-treatment with Org 10172 (Lomoparan). Muhm M, et al. **Wien Klin Wochenschr** 1997 Feb 28;109(4):128–31

[Hemorrhage complicating heparin treatment in a patient with myxedema] Bulckaen E, et al. **Ann Fr Anesth Reanim** 1996;15(2):202–3 (Eng. Abstr.) **(Fre)**

[Osteoporosis induced either by unfractionated heparin or by low molecular weight heparin] Chigot P, et al. **J Mal Vasc** 1996;21(3):121–5 (18 ref.) (Eng. Abstr.) **(Fre)**

[Severe hemorrhagic complications during treatment with low molecular weight heparin. Apropos of 2 cases] Grateau G, et al. **Rev Med Interne** 1997;18(5):411–5 (Eng. Abstr.) **(Fre)**

ANALOGS & DERIVATIVES

Effects of nonanticoagulant heparin on cardiovascular and hepatocellular function after hemorrhagic shock. Wang P, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1294–302

A novel nonanticoagulant heparin prevents vascular endothelial cell dysfunction during hyperdynamic sepsis. Morrison AM, et al. **Shock** 1996 Jul;6(1):46–51

ANALYSIS

Heparins, low-molecular-weight heparins, and other glycosaminoglycans analyzed by agarose gel electrophoresis and azure A-silver staining. Wang L, et al. **Semin Thromb Hemost** 1997;23(1):11–6

BLOOD

Measurement of fluorescent-labeled LMM-heparin in biological fluids using protamine-linked microbeads. Malsch R, et al. **Semin Thromb Hemost** 1997;23(1):23–30

The activity of unfractionated heparin and low molecular weight heparins in rabbit plasma—the need for using absolute anti-factor Xa and antithrombin activities. Peyrou V, et al. **Thromb Haemost** 1997 Feb;77(2):312–6

CHEMISTRY

Biochemical and pharmacologic characteristics of Reviparin, a low-molecular-mass heparin. Jeske W, et al. **Semin Thromb Hemost** 1997;23(2):119–28

Molecular weight measurements of low molecular weight heparins by gel permeation chromatography. Mulloy B, et al. **Thromb Haemost** 1997 Apr;77(4):668–74

ECONOMICS

Treatment of proximal vein thrombosis with subcutaneous low-molecular-weight heparin vs intravenous heparin. An economic perspective [see comments] Hull RD, et al. **Arch Intern Med** 1997 Feb 10;157(3):289–94. Comment in: ACP J Club 1997 Jul–Aug;127(1):23.

Subcutaneous low-molecular-weight heparin vs warfarin for prophylaxis of deep vein thrombosis after hip or knee implantation. An economic perspective [see comments] Hull RD, et al. **Arch Intern Med** 1997 Feb 10; 157(3):298–303. Comment in: ACP J Club 1997 Jul–Aug;127(1):24.

Thromboprophylaxis with low molecular weight heparin after major orthopaedic surgery is cost effective. Borris

LC, et al. **Drugs** 1996;52 Suppl 7:42–6

Use of low molecular weight heparin in postangioplasty management. Chow WH, et al. **Int J Cardiol** 1997 Jan 3; 58(1):83–5

Cost-effectiveness of the low molecular weight heparin reviparin sodium in thromboprophylaxis. Kakkar VV. **Thromb Res** 1996;81(2 Suppl):S75–7 (2 ref.)

IMMUNOLOGY

Patients treated with unfractionated heparin during open heart surgery are at high risk to form antibodies reactive with heparin:platelet factor 4 complexes [see comments] Visentin GP, et al. **J Lab Clin Med** 1996 Oct;128(4):376–83 . Comment in: J Lab Clin Med 1996 Oct;128(4):346–7.

METABOLISM

Macromolecule–macromolecule interaction in drug distribution. IV. Molecular weight dependency in the interaction of fractionated [3H]heparin with plasma proteins. Watanabe J, et al. **Biol Pharm Bull** 1996 Feb; 19(2):287–90

PHARMACOKINETICS

The dose proportionality of the pharmacokinetics of ardeparin, a low molecular weight heparin, in healthy volunteers. Troy S, et al. **J Clin Pharmacol** 1995 Dec; 35(12):1194–9

Comparison of the pharmacodynamic and pharmacokinetic profiles of two low-molecular-mass heparins in rats. Piazolo L, et al. **Semin Thromb Hemost** 1997;23(2):109–17

Pharmacokinetic properties of LMW–heparin–tyramine fractions with high or low affinity to antithrombin III in the rat. Stehle G, et al. **Semin Thromb Hemost** 1997; 23(1):31–7

Production method affects the pharmacokinetic and ex vivo biological properties of low molecular weight heparins. Brieger D, et al. **Thromb Haemost** 1997 Feb;77(2):317–22

Are the pharmacokinetic parameters of low molecular weight heparins predictive of their clinical efficacy? Andrassy K, et al. **Thromb Res** 1996;81(2 Suppl):S29–38 (25 ref.)

PHARMACOLOGY

Effects of heparin and low molecular weight heparin on lipid transport during parenteral feeding in the rat. Roth B, et al. **Acta Anaesthesiol Scand** 1996 Jan;40(1):102–11

Comparison of the effects of low-molecular-weight and unfractioned heparin in horses. Monreal L, et al. **Am J Vet Res** 1995 Oct;56(10):1281–5

Dalteparin: a low-molecular-weight heparin. Howard PA. **Ann Pharmacother** 1997 Feb;31(2):192–203 (80 ref.)

Expression of laminin and type IV collagen by basement membrane-producing EHS tumors in streptozotocin-induced diabetic mice: in vivo modulation by low-molecular-weight heparin fragments. Asselot-Chapel C, et al. **Biochem Pharmacol** 1996 Dec 13; 52(11):1695–701

A histomorphometric comparison of the effects of heparin and low-molecular-weight heparin on cancellous bone in rats. Muir JM, et al. **Blood** 1997 May 1;89(9):3236–42

Effect of nonspecific binding to plasma proteins on the antithrombin activities of unfractionated heparin, low-molecular-weight heparin, and dermatan sulfate. Cosmi B, et al. **Circulation** 1997 Jan 7;95(1):118–24

New data on the pharmacology of heparin and low molecular weight heparins. Samama MM, et al. **Drugs** 1996;52 Suppl 7:8–14; discussion 14–5 (24 ref.)

The platelet proaggregating and potentiating effects of unfractionated heparin, low molecular weight heparin and heparinoid in intensive care patients and healthy controls. Burgess JK, et al. **Eur J Haematol** 1997 Apr;58(4):279–85

Platelets of patients with peripheral arterial disease demonstrate a hypersensitive response to heparin. Reininger CB, et al. **Int Angiol** 1996 Sep;15(3):207–14

A cross-over study of a new low molecular weight heparin (Logiparin) in hemodialysis. Koutsikos D, et al. **Int J Artif Organs** 1996 Aug;19(8):467–71

Basic-fibroblast-growth-factor-mediated de novo angiogenesis is more effectively suppressed by low-molecular-weight than by high-molecular-weight heparin. Norrby K, et al. **Int J Microcirc Clin Exp** 1996 Jan–Feb;16(1):8–15

Inhibition of neointimal proliferation after coronary angioplasty by low-molecular-weight heparin (clivarine) and polyethyleneglycol-hirudin. Buchwald AB, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):481–7

Antithrombotic activity of a 2-kDa heparin fragment in an experimental model of carotid artery thrombosis in rats. Guarini S, et al. **J Pharm Pharmacol** 1996 Apr;48(4):407–10

Low-molecular-weight heparin (dalteparin) demonstrated a weaker effect on rat bone metabolism compared with heparin. Nishiyama M, et al. **Jpn J Pharmacol** 1997 May; 74(1):59–68

Antithrombotic and thrombolytic activity of heparins in a rat model of laser-induced thrombosis. Krupiński K, et al. **Pol J Pharmacol** 1996 May–Jun;48(3):345–50

Pathophysiology of thromboembolism and its modulation by low-molecular-weight heparins. Breddin HK. **Semin Thromb Hemost** 1996;22 Suppl 1:25–7 (7 ref.)

Pharmacology of the low-molecular-weight heparins. Fareed J, et al. **Semin Thromb Hemost** 1996;22 Suppl 2:13–8 (34 ref.)

Biochemical and pharmacologic characteristics of Reviparin, a low-molecular-mass heparin. Jeske W, et al. **Semin Thromb Hemost** 1997;23(2):119–28

Comparison of the pharmacodynamic and pharmacokinetic profiles of two low-molecular-mass heparins in rats. Piazolo L, et al. **Semin Thromb Hemost** 1997;23(2):109–17

Role of thromboelastography in evaluating other anticoagulant agents: warfarin and heparin–dihydroergotamine. Traverso CI, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:59–62 (12 ref.)

Preclinical studies on a low molecular weight heparin. Fareed J, et al. **Thromb Res** 1996;81(2 Suppl):S1–27

Treatment with LMWHs inhibits factor VIIa generation during in vitro coagulation of whole blood. Gerotziafas GT, et al. **Thromb Res** 1996 Feb 15;81(4):491–6

The effect of protamine sulphate on plasma tissue factor pathway inhibitor released by intravenous and subcutaneous unfractionated and low molecular weight heparin in man. Holst J, et al. **Thromb Res** 1997 May 15; 86(4):343–8

Very low doses of unfractionated heparin potentiate the anti-Xa activity of low molecular weight heparin (enoxaparin). Pèrez-Requejo JL, et al. **Thromb Res** 1997 Feb 1;85(3):259–65

Differential effect of a low-molecular-weight heparin (dalteparin) and unfractionated heparin on platelet interaction with the subendothelium under flow conditions. Serra A, et al. **Thromb Res** 1997 Aug 15;87(4):405–10

Influence of different anticoagulants on platelet aggregation in whole blood; a comparison between citrate, low molecular mass heparin and hirudin. Wallén NH, et al. **Thromb Res** 1997 Jul 1;87(1):151–7

Efficacy of low-molecular-weight heparin and unfractionated heparin to prevent adhesion of human prostate and bladder carcinoma and melanoma cells to bovine endothelial monolayers. An in vitro study and review of the literature. Lersch C, et al. **Urol Int** 1996; 56(4):230–3

[Inhibitory effect of low molecular weight heparin on the bronchoconstriction in ovalbumin-sensitized guinea pigs after antigen exposure] Maeda H, et al. **Arerugi** 1995 Nov; 44(11):1282–9 (Eng. Abstr.) **(Jpn)**

[Thrombolytic and antithrombotic effects of low molecular weight heparin-serotonin complex] Kondashevskaia MV, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):530–2 **(Rus)**

STANDARDS

Are the available low-molecular-weight heparin preparations the same? Fareed J, et al. **Semin Thromb Hemost** 1996;22 Suppl 1:77–91 (34 ref.)

THERAPEUTIC USE

Reduction of thrombotic and hemorrhagic complications after stent implantation. Pan M, et al. **Am Heart J** 1996 Dec;132(6):1119–26

New frontiers in the management of unstable coronary artery disease. Turpie AG. **Am J Cardiol** 1997 Sep 4; 80(5A):21E–24E (30 ref.)

Effects of conventional vs. low-molecular-weight heparin on lipid profile in hemodialysis patients. Elisaf MS, et al. **Am J Nephrol** 1997;17(2):153–7

Low molecular weight heparin: biochemistry, pharmacology, perioperative prophylaxis regimens, and guidelines for regional anesthetic management. Horlocker TT, et al. **Anesth Analg** 1997 Oct;85(4):874–85 (78 ref.)

Use of low molecular weight heparin in patients with heparin-induced thrombocytopenia undergoing carotid endarterectomy. Gottlieb A, et al. **Anesthesiology** 1996 Sep; 85(3):678–81

The effect of enoxaparin in prevention of deep venous thrombosis in hip and knee surgery—a comparison with the dihydroergotamine-heparin combination. Perhoniemi V, et al. **Ann Chir Gynaecol** 1996;85(4):359–63

Pregnancy-related thromboembolism [letter; comment] Manoharan A. **Ann Intern Med** 1997 Jul 15;127(2):163–4 . Comment on: Ann Intern Med 1996 Dec 15;125(12):955–60. Comment on: Ann Intern Med 1996 Dec 15;125(12):1001–3.

Rationale for the use of a low molecular weight heparin during hemodialysis with polysulphone membrane in uremic patients. Moia M, et al. **Ann Ital Med Int** 1997 Apr–Jun;12(2):67–71

Management of iliofemoral thrombosis in a pregnant patient with heparin resistance. Anand SS, et al. **Arch Intern Med** 1997 Apr 14;157(7):815–6

Severe proximal deep vein thrombosis in a Glanzmann thrombasthenia variant successfully treated with a low molecular weight heparin [letter] Gruel Y, et al. **Blood** 1997 Jul 15;90(2):888–90

Uses of low-molecular-weight heparin. Bounameaux H, et al. **Blood Rev** 1995 Dec;9(4):213–9 (37 ref.)

Low molecular weight heparin associated with spinal anaesthesia and gradual compression stockings in total hip replacement surgery. Arar Study Group. Samama CM, et al. **Br J Anaesth** 1997 Jun;78(6):660–5

Do low molecular weight heparin and dextran increase the blood loss in transurethral resection of the prostate? Hjertberg H, et al. **Br J Urol** 1996 Dec;78(6):897–900

Fish oils and low-molecular-weight heparin for the reduction of restenosis after percutaneous transluminal coronary angioplasty. The EMPAR Study. Cairns JA, et al. **Circulation** 1996 Oct 1;94(7):1553–60

Low-molecular-weight heparins for unstable angina. A better mousetrap? [editorial; comment] Waters D, et al. **Circulation** 1997 Jul 1;96(1):3–5. Comment on: Circulation 1997 Jul 1;96(1):61–8.

Low molecular weight heparin for acute ischemic heart disease [editorial] Conti CR. **Clin Cardiol** 1997 May; 20(5):415–6

Comparison of the efficacy and safety of low molecular weight heparins and unfractionated heparin in the initial treatment of deep venous thrombosis. An updated meta-analysis. Leizorovicz A. **Drugs** 1996;52 Suppl 7:30–7

The risk of thromboembolism in patients undergoing colorectal surgery. McLeod RS. **Drugs** 1996;52 Suppl 7:38–41 (25 ref.)

Low molecular weight heparin(oid)s. Clinical investigations and practical recommendations. Nurmohamed MT, et al. **Drugs** 1997 May;53(5):736–51 (105 ref.)

Prevention and treatment of venous thromboembolism. Pineo GF, et al. **Drugs** 1996 Jul;52(1):71–92 (163 ref.)

Subcutaneous low-molecular-weight heparin versus standard heparin and the prevention of thromboembolism in medical inpatients. The Heparin Study in Internal Medicine Group. Harenberg J, et al. **Haemostasis** 1996 May–Jun;26(3):127–39

Comparison of the relative efficacy and safety of low molecular weight heparin and unfractionated heparin for the treatment of venous thrombosis. Hirsh J. **Haemostasis** 1996 Oct;26 Suppl 4:189–98 (20 ref.)

Platelet count and the risk of bleeding in hospitalized patients with venous thromboembolism starting anticoagulant therapy. Monreal M, et al. **Haemostasis** 1997 Mar–Apr; 27(2):91–8

Efficacy and safety of low molecular weight heparin, unfractionated heparin and warfarin for thrombo-embolism prophylaxis in orthopaedic surgery: a meta-analysis of randomised clinical trials. Palmer AJ, et al. **Haemostasis** 1997 Mar–Apr;27(2):75–84

Low molecular weight heparin and unfractionated heparin for prevention of thrombo-embolism in general surgery: a meta-analysis of randomised clinical trials. Palmer AJ, et al. **Haemostasis** 1997 Mar–Apr;27(2):65–74

Long-term use of the low molecular weight heparin tinzaparin in haemodialysis. Simpson HK, et al. **Haemostasis** 1996 Mar–Apr;26(2):90–7

Prophylaxis of thromboembolic disease with RO–11 (ROVI), during abdominal surgery. EMRO1 (Grupo Fstudio Multicintrico RO–11). Moreno Gonzalez E, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):744–7

Low-molecular-weight heparin for venous thromboembolism. Schafer AI. **Hosp Pract (Off Ed)** 1997 Jan 15;32(1):99–101, 105–6 (9 ref.)

Inhibition of HIV-1 infectivity by low molecular weight heparin. Results of in vitro studies and a pilot clinical trial in patients with advanced AIDS. Howell AL, et al. **Int J Clin Lab Res** 1996;26(2):124–31

Treatment with modified heparins inhibits experimental metastasis formation and leads, in some animals, to long-term survival. Sciumbata T, et al. **Invasion Metastasis** 1996;16(3):132–43

Low-molecular weight heparins. Talley JD. **J Ark Med Soc** 1997 Apr;93(11):555–6

Low-molecular-weight heparin in the emergency department treatment of venous thromboembolism. Innes GD, et al. **J Emerg Med** 1997 Jul–Aug;15(4):563–6

Long-term effect of low molecular weight heparin on serum lipids in hypertriglyceridemic chronic hemodialysis patients. Vlassopoulos D, et al. **J Nephrol** 1997 Mar–Apr; 10(2):111–4

Posttrauma thromboembolism prophylaxis. Greenfield LJ, et al. **J Trauma** 1997 Jan;42(1):100–3

Treatment of experimental mesangioproliferative glomerulonephritis with non-anticoagulant heparin: therapeutic efficacy and safety. Burg M, et al. **Lab Invest** 1997 Apr;76(4):505–16

Low-molecular-weight heparin in the treatment of patients with venous thromboembolism. The Columbus Investigators. **N Engl J Med** 1997 Sep 4;337(10):657–62

Prophylaxis against venous thromboembolism after major trauma [letter; comment] Osler T, et al. **N Engl J Med** 1997 Feb 20;336(8):586; discussion 586–7. Comment on: N Engl J Med 1996 Sep 5;335(10):701–7.

A comparison of low-molecular-weight heparin with unfractionated heparin for acute pulmonary embolism. The THESEE Study Group. Tinzaparine ou Heparine Standard: Evaluations dans l'Embolie Pulmonaire. Simonneau G, et al. **N Engl J Med** 1997 Sep 4;337(10):663–9

Low-molecular-weight heparins. Weitz JI. **N Engl J Med** 1997 Sep 4;337(10):688–98 (100 ref.)

Release of thyroid hormones from protein-binding sites by low-molecular-weight heparin in hemodialysis patients [letter] Brodersen HP, et al. **Nephron** 1997;75(3):366–7

Managing the risk of venous thromboembolism in orthopedics: concluding remarks. Haas S. **Orthopedics** 1997 Feb;20 Suppl:26–7

Low-molecular-weight heparin: from the bench to the orthopedic patient. Turpie AG. **Orthopedics** 1997 Feb;20 Suppl:10–3 (12 ref.)

Treatment of deep vein thrombosis. Cina G, et al. **Rays** 1996 Jul–Sep;21(3):397–416 (66 ref.) **(Eng, Ita)**

Low-molecular-weight heparin for the out-of-hospital

treatment of venous thrombosis: rationale and clinical results. Crowther M, et al. **Semin Thromb Hemost** 1997; 23(1):77–81 (32 ref.)

Comparison of the relative efficacy and safety of low-molecular-weight heparin and unfractionated heparin for the treatment of venous thrombosis. Hirsh J. **Semin Thromb Hemost** 1996;22 Suppl 2:7–12; discussion 29–30 (20 ref.)

Current use of low molecular weight heparins. Donayre CE. **Semin Vasc Surg** 1996 Dec;9(4):362–71 (57 ref.)

Acute stroke therapies. Brint SU. **Surg Neurol** 1996 Nov; 46(5):446–9 (21 ref.)

Low molecular weight heparin as thromboprophylaxis in familial thrombophilia during the whole period of pregnancy. Boda Z, et al. **Thromb Haemost** 1996 Jul; 76(1):128

Low molecular weight heparin for the out-of-hospital treatment of venous thrombosis: rationale and clinical results. Hirsh J, et al. **Thromb Haemost** 1997 Jul; 78(1):689–92 (33 ref.)

Low molecular weight heparin for thromboprophylaxis during pregnancy in 2 patients with mechanical mitral valve replacement [letter] Lee LH, et al. **Thromb Haemost** 1996 Oct;76(4):628–30

Human urinary soluble thrombomodulin (MR-33) improves disseminated intravascular coagulation without affecting bleeding time in rats: comparison with low molecular weight heparin. Takahashi Y, et al. **Thromb Haemost** 1997 Apr;77(4):789–95

Blood coagulation and thrombosis in patients with ovarian malignancy. von Tempelhoff GF, et al. **Thromb Haemost** 1997 Mar;77(3):456–61

Coronary heart disease, unstable angina, PTCA: new indications for low molecular weight heparins? Breddin HK. **Thromb Res** 1996;81(2 Suppl):S47–51 (21 ref.)

Patients at risk of venous thromboembolism—clinical results with reviparin. Kakkar VV, et al. **Thromb Res** 1996;81(2 Suppl):S39–45 (11 ref.)

Low molecular weight heparin and the heparin mobilisable pool of platelet factor 4 are reduced in young survivors of myocardial infarction. Lewandowski K, et al. **Thromb Res** 1996 Mar 15;81(6):615–22

Low molecular weight heparin in prevention of restenosis after PTCA. Preisack MB, et al. **Thromb Res** 1996;81(2 Suppl):S53–9

Efficacy and safety of a low-molecular-weight heparin and standard unfractionated heparin for prophylaxis of postoperative venous thromboembolism: European multicenter trial. Kakkar VV, et al. **World J Surg** 1997 Jan;21(1):2–8; discussion 8–9

Low-molecular-weight heparins and Daflon for prevention of postoperative thromboembolism. Tsimoyiannis EC, et al. **World J Surg** 1996 Oct;20(8):968–71; discussion 972

[Current indications of low-molecular-weight heparins] Vignes S, et al. **Ann Med Interne (Paris)** 1997;148(2):154–62 (64 ref.) (Eng. Abstr.) **(Fre)**

[Low molecular weight heparin in unstable angina] Kher A, et al. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1495–500 (Eng. Abstr.) **(Fre)**

[Treatment of venous thrombosis with low molecular weight heparin. Progress and outlook] Fiessinger JN. **Bull Acad Natl Med** 1997 May;181(5):875–83; discussion 883–5 (27 ref.) (Eng. Abstr.) **(Fre)**

[Preventing and treating venous thrombosis in 1997 (editorial)] Fiessinger JN. **Rev Med Interne** 1997; 18(6):439–42 **(Fre)**

[Heparins and curative treatment of venous thromboembolic disease: meta-analysis] Mismetti P, et al. **Therapie** 1997 Jan-Feb;52(1):47–52 (Eng. Abstr.) **(Fre)**

[Low molecular weight heparin: the first 5 years (editorial)] Mannucci PM. **Ann Ital Med Int** 1997 Apr-Jun;12(2):61–2 **(Ita)**

[Assessment of complications of major orthopedic surgery: comparison of indobufen, calcium heparin, and low molecular heparin] Borghi B, et al. **Minerva Anestesiol** 1996 Mar;62(3):93–100 (Eng. Abstr.) **(Ita)**

[The role of low-molecular-weight heparin in unstable angina, acute myocardial infarction and post-elective percutaneous transluminal coronary angioplasty (see comments)] Cláudio Correia LC, et al. **Arq Bras Cardiol** 1995 Dec;65(6):475–8 (Eng. Abstr.). Comment in: Arq Bras Cardiol 1995 Dec;65(5):517–8. **(Por)**

[The role of low-molecular-weight heparin in unstable angina, acute myocardial infarction and post-elective percutaneous transluminal coronary angioplasty (editorial; comment)] Pimentel Filho WA. **Arq Bras Cardiol** 1995 Dec; 65(6):517–8. Comment on: Arq Bras Cardiol 1995 Dec;65(6):475–8. **(Por)**

[The role of clivarin in the preventive therapy of thromboembolism] Mircea N, et al. **Chirurgia (Bucur)** 1996 Nov-Dec;45(6):337–41 (Eng. Abstr.) **(Rum)**

[The efficacy of Sulodexide—a low-molecular heparin—in the therapy of diabetic nephropathy] Shestakova MV, et al. **Ter Arkh** 1997;69(6):34–7 (Eng. Abstr.) **(Rus)**

[Low molecular weight heparins. Implications in anesthesia and resuscitation] Llau JV, et al. **Rev Esp Anestesiol Reanim** 1997 Feb;44(2):70–8 (142 ref.) (Eng. Abstr.) **(Spa)**

TOXICITY

Experimental haemorrhagic effect of two-domain non-glycosylated tissue factor pathway inhibitor compared to low molecular weight heparin. Holst J, et al. **Thromb Haemost** 1996 Apr;75(4):585–9

HEPARINIC ACID see **HEPARIN**

HEPARINOIDS

ADVERSE EFFECTS

Tolerance to intravenous administration of heparin and heparinoid in a patient with delayed-type hypersensitivity to heparins and heparinoids. Boehncke WH, et al. **Contact Dermatitis** 1996 Aug;35(2):73–5

Cross-reactivity study of low molecular weight heparins and heparinoid in heparin-induced thrombocytopenia. Vun CM, et al. **Thromb Res** 1996 Mar 1;81(5):525–32

IMMUNOLOGY

Monoclonal antibodies against heparin and heparinoids. Huhle G, et al. **Semin Thromb Hemost** 1997;23(1):17–22

PHARMACOLOGY

The platelet proaggregating and potentiating effects of unfractionated heparin, low molecular weight heparin and heparinoid in intensive care patients and healthy controls. Burgess JK, et al. **Eur J Haematol** 1997 Apr;58(4):279–85

Danaparoid: an antithrombotic agent without major impact on triglyceride hydrolysis capacity in humans. van Barlingen HH, et al. **J Intern Med** 1997 Aug;242(2):125–9

THERAPEUTIC USE

Low molecular weight heparin(oid)s. Clinical investigations and practical recommendations. Nurmohamed MT, et al. **Drugs** 1997 May;53(5):736–51 (105 ref.)

Danaparoid sodium lowers proteinuria in diabetic nephropathy. van der Pijl JW, et al. **J Am Soc Nephrol** 1997 Mar;8(3):456–62

Treatment of heparin-induced thrombocytopenia [letter] Peters FP. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):517–8

HEPARITIN SULFATE

Heparan sulfate: a piece of information. Salmivirta M, et al. **FASEB J** 1996 Sep;10(11):1270–9 (49 ref.)

Heparan sulphate. Stringer SE, et al. **Int J Biochem Cell Biol** 1997 May;29(5):709–14 (15 ref.)

ADMINISTRATION & DOSAGE

A multicentre, double-blind, randomized study to compare the safety and efficacy of once-daily ORG 10172 and twice-daily low-dose heparin in preventing deep-vein thrombosis in patients with acute ischaemic stroke. Dumas R, et al. **Age Ageing** 1994 Nov;23(6):512–6

[The effect of heparan sulfate on percutaneous transluminal angioplasty in the vessels supplying the lower extremities] Bulvas M, et al. **Cas Lek Cesk** 1996 Jul 14;135(14):445–9 (Eng. Abstr.) **(Cze)**

ADVERSE EFFECTS

Thrombosis during the use of the heparinoid Organon 10172 in a patient with heparin-induced thrombocytopenia. Insler SR, et al. **Anesthesiology** 1997 Feb;86(2):495–8

Orgaran (Org 10172) for cardiopulmonary bypass in heparin-induced thrombocytopenia: role of adjunctive plasmapheresis [letter; comment] Schmahl KS, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):262–3. Comment on: J Cardiothorac Vasc Anesth 1996 Jun;10(4):521–30.

Risk factors for bleeding during treatment of acute venous thromboembolism. Wester JP, et al. **Thromb Haemost** 1996 Nov;76(5):682–8

ANALYSIS

First report of congenital or infantile cataract in deranged proteoglycan metabolism with released xylose. Sulochana KN, et al. **Br J Ophthalmol** 1997 Apr;81(4):319–23

High performance capillary electrophoresis method to characterize heparin and heparan sulfate disaccharides. Karamanos NK, et al. **Electrophoresis** 1996 Feb;17(2):391–5

Evidence for the existence of multiple heparan sulfate proteoglycans in the human glomerular basement membrane and mesangial matrix. Groffen AJ, et al. **Eur J Biochem** 1997 Jul 1;247(1):175–82

Development of an enzyme immunoassay specific for a core protein epitope of a novel small basement membrane associated heparan sulphate proteoglycan from human kidney. Stöcker G, et al. **Eur J Clin Chem Clin Biochem** 1997 Feb;35(2):95–9

Expression of perlecan, a proteoglycan that binds myogenic inhibitory basic fibroblast growth factor, is down regulated during skeletal muscle differentiation. Larraín J, et al. **Exp Cell Res** 1997 Aug 1;234(2):405–12

Immunohistochemical localization of transforming growth factor beta, basic fibroblast growth factor and heparan sulphate glycosaminoglycan in gingival hyperplasia induced by nifedipine and phenytoin. Saito K, et al. **J Periodontal Res** 1996 Nov;31(8):545–55

An enzyme- linked immunosorbent assay for heparan sulfate proteoglycans. Okamoto M, et al. **Life Sci** 1997; 60(20):1811–9

BIOSYNTHESIS

High glucose-induced TGF-beta 1 regulates mesangial production of heparan sulfate proteoglycan. Kolm V, et al. **Am J Physiol** 1996 May;270(5 Pt 2):F812–21

Interferon gamma differentially affects the synthesis of chondroitin/dermatan sulphate and heparan sulphate by human skin fibroblasts. Paillet C, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):863–70

Activation of paracrine growth factors by heparan sulphate induced by glucocorticoid in A549 lung carcinoma cells. Yevdokimova N, et al. **Br J Cancer** 1997;76(3):281–9

Synchronized order of appearance of hyaluronic acid (or acidic galactan) —> chondroitin C-6 sulfate —> chondroitin C-4/C-6 sulfate, heparan sulfate, dermatan sulfate —> heparin during morphogenesis, differentiation and development. Nader HB, et al. **Braz J Med Biol Res** 1996 Sep;29(9):1221–6

Influence of lipopolysaccharide and interleukin-2 on proliferation and synthesis of sulfated macromolecules in cultured rat glomerular epithelial cells. Zhang B, et al. **Chin Med J (Engl)** 1996 Aug;109(8):609–14

Expression and characterization of human perlecan domains I and II synthesized by baculovirus-infected insect cells. Groffen AJ, et al. **Eur J Biochem** 1996 Nov 1;241(3):827–34

Partial purification and substrate specificity of heparan sulfate alpha-N-acetylglucosaminyltransferase I: synthesis, NMR spectroscopic characterization and in vitro assays of two aryl tetrasaccharides. Fritz TA, et al. **Glycobiology** 1997 Jul;7(5):587–95

Differential effects of angiotensin II and transforming growth factor beta on the production of heparan sulfate proteoglycan by mesangial cells in vitro. van Det NF, et al. **J Am Soc Nephrol** 1996 Jul;7(7):1015–23

Identification of sites in domain I of perlecan that regulate heparan sulfate synthesis. Dolan M, et al. **J Biol Chem** 1997 Feb 14;272(7):4316–22

Cell-free synthesis of anticoagulant heparan sulfate reveals a limiting converting activity that modifies an excess precursor pool. Shworak NW, et al. **J Biol Chem** 1996 Oct 25;271(43):27063–71

Heparan sulfate proteoglycans of the cardiovascular system. Specific structures emerge but how is synthesis regulated? Rosenberg RD, et al. **J Clin Invest** 1997 May 1; 99(9):2062–70 (88 ref.)

Glucosamine may retard atherogenesis by promoting endothelial production of heparan sulfate proteoglycans. McCarty MF. **Med Hypotheses** 1997 Mar;48(3):245–51 (94 ref.)

Reported antiatherosclerotic activity of silicon may reflect increased endothelial synthesis of heparan sulfate proteoglycans. McCarty MF. **Med Hypotheses** 1997 Aug; 49(2):175–6

Cyclic AMP regulates basement membrane heparan sulfate proteoglycan, perlecan, metabolism in rat glomerular epithelial cells. Ko CW, et al. **Mol Cell Biochem** 1996 Sep 6;162(1):65–73

Developmental and FGF-2-mediated regulation of syndecans (1-4) and glypican in oligodendrocytes. Bansal R, et al. **Mol Cell Neurosci** 1996 Apr;7(4):276–88

CHEMISTRY

Structural differences and the presence of unsubstituted amino groups in heparan sulphates from different tissues and species. Toida T, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):499–506

Glycoconjugate cross-talk in metastatic cancer cells, leucocytes, parasites and bacteria. Leroy A, et al. **Biochem Soc Trans** 1997 Feb;25(1):228–34 (48 ref.)

Structure and function of fibroblast growth factor. Gambarini AG, et al. **Braz J Med Biol Res** 1996 Jul;29(7):835–9

Characterization of recombinant perlecan domain I and its substitution by glycosaminoglycans and oligosaccharides. Costell M, et al. **Eur J Biochem** 1997 Jan 15; 243(1-2):115–21

Drosophila laminin binds to mammalian nidogen and to heparan sulfate proteoglycan. Mayer U, et al. **Eur J Biochem** 1997 May 1;245(3):745–50

Structural characterization of recombinant domain II of the basement membrane proteoglycan perlecan. Costell M, et al. **FEBS Lett** 1996 Nov 4;396(2-3):127–31

Preparation and structure of heparin lyase-derived heparan sulfate oligosaccharides. Hileman RE, et al. **Glycobiology** 1997 Mar;7(2):231–9

N-Acetylated domains in heparan sulfates revealed by a monoclonal antibody against the Escherichia coli K5 capsular polysaccharide. Distribution of the cognate epitope in normal human kidney and transplant kidney with chronic vascular rejection. Born J, et al. **J Biol Chem** 1996 Sep 13;271(37):22802–9

The interaction of the transforming growth factor-betas with heparin/heparan sulfate is isoform-specific. Lyon M, et al. **J Biol Chem** 1997 Jul 18;272(29):18000–6

Ion-pair high-performance liquid chromatography for determining disaccharide composition in heparin and heparan sulphate. Karamanos NK, et al. **J Chromatogr A** 1997 Mar 28;765(2):169–79

N-syndecan: structure and function of a transmembrane heparan sulfate proteoglycan. Carey DJ. **Perspect Dev Neurobiol** 1996;3(4):331–46 (77 ref.)

Lead-induced alteration of heparan sulfate proteoglycans in cultured vascular endothelial cells. Kaji T, et al. **Toxicology** 1997 Mar 14;118(1):1-10

GENETICS

Simpson-Golabi-Behmel syndrome: genotype/phenotype analysis of 18 affected males from 7 unrelated families. Hughes-Benzie RM, et al. **Am J Med Genet** 1996 Dec 11; 66(2):227-34

Expression of heparan sulfate proteoglycan (perlecan) in the mouse blastocyst is regulated during normal and delayed implantation. Smith SE, et al. **Dev Biol** 1997 Apr 1; 184(1):38-47

Expression of avian glypican is developmentally regulated. Niu S, et al. **Dev Dyn** 1996 Sep;207(1):25-34

Developmental and cell-type-specific expression of cell surface heparan sulfate proteoglycans in the rat heart. Asundi VK, et al. **Exp Cell Res** 1997 Jan 10;230(1):145-53

Characterization of glypican-5 and chromosomal localization of human GPC5, a new member of the glypican gene family. Veugelers M, et al. **Genomics** 1997 Feb 15; 40(1):24-30

Structural and functional characterization of the human perlecan gene promoter. Transcriptional activation by transforming growth factor-beta via a nuclear factor 1-binding element. Iozzo RV, et al. **J Biol Chem** 1997 Feb 21;272(8):5219-28

Large scale deletions in the GPC3 gene may account for a minority of cases of Simpson-Golabi-Behmel syndrome. Lindsay S, et al. **J Med Genet** 1997 Jun;34(6):480-3

Mapping of the Simpson-Golabi-Behmel overgrowth syndrome gene (GPC3) to chromosome X in human and rat by fluorescence in situ hybridization. Shen T, et al. **Mamm Genome** 1997 Jan;8(1):72

Structural and cell-adhesive properties of three recombinant fragments derived from perlecan domain III. Schulze B, et al. **Matrix Biol** 1996 Nov;15(5):349-57

Developmental regulation of perlecan gene expression in aortic smooth muscle cells. Weiser MC, et al. **Matrix Biol** 1996 Nov;15(5):331-40

Suppression of autocrine and paracrine functions of basic fibroblast growth factor by stable expression of perlecan antisense cDNA. Aviezer D, et al. **Mol Cell Biol** 1997 Apr; 17(4):1938-46

IMMUNOLOGY

Regional distribution of neural cell adhesion molecule immunoreactivity in the adult rat telencephalon and diencephalon. Partial colocalization with heparan sulfate proteoglycan immunoreactivity. Fuxe K, et al. **Brain Res** 1997 Jan 23;746(1-2):25-33

Monoclonal antibody to heparan sulfate from autoimmune tight skin (TSK) mice binds to the endothelial cell surface. Matic M, et al. **Immunol Invest** 1997 Apr;26(3):371-81

ISOLATION & PURIFICATION

Isolation and immunochemical characterization of heparan sulfate rich proteoglycan (HSPG) present in the basement membrane of human placenta. Onodera S, et al. **Biol Pharm Bull** 1997 Feb;20(2):113-7

Novel purification and detailed characterization of perlecan isolated from the Engelbreth-Holm-Swarm tumor for use in an animal model of fibrillar A beta amyloid persistence in brain. Castillo GM, et al. **J Biochem (Tokyo)** 1996 Aug; 120(2):433-44

METABOLISM

Differential binding of fibroblast growth factor-2 and -7 to basement membrane heparan sulfate: comparison of normal and abnormal human tissues. Friedl A, et al. **Am J Pathol** 1997 Apr;150(4):1443-55

Heparin causes the accumulation of heparan sulfate in cultures of arterial smooth muscle cells. Potter-Perigo S, et al. **Arch Biochem Biophys** 1996 Dec 1;336(1):19-26

Immunohistological distribution of heparan sulfate proteoglycan and chondroitin 6-sulfate in carcinomas with eccrine differentiation. Kazama T, et al. **Arch Dermatol Res** 1996 Oct;288(11):718-21

Epicutaneous application of leukotriene B4 induces patterns of tenascin and a heparan sulfate proteoglycan epitope that are typical for psoriatic lesions. Seyger MM, et al. **Arch Dermatol Res** 1997 May;289(6):331-6

Heparan sulfate isomers in cerebral arteries of Japanese women with aging and with atherosclerosis--heparitinase and high-performance liquid chromatography determinations. Murata K, et al. **Atherosclerosis** 1997 Jul 11;132(1):9-17

Binding and degradation of thrombospondin-1 mediated through heparan sulphate proteoglycans and low-density-lipoprotein receptor-related protein: localization of the functional activity to the trimeric N-terminal heparin-binding region of thrombospondin-1. Chen H, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):959-63

Binding of perlecan to transthyretin in vitro. Smeland S, et al. **Biochem J** 1997 Sep 15;326 (Pt 3):829-36

Nitric oxide degradation of heparin and heparan sulphate. Vilar RE, et al. **Biochem J** 1997 Jun 1;324 (Pt 2):473-9

Opposite effects of basic fibroblast growth factor and heparin on heparin/heparan sulfate degrading enzymes from Flavobacterium heparinum. Cavari S, et al. **Biochem Mol Biol Int** 1996 Jul;39(4):823-31

Heparan sulphate in breast cancer cells. Rahmoune H, et al. **Biochem Soc Trans** 1996 Aug;24(3):355S

Interaction of lipoprotein lipase with heparin fragments and with heparan sulfate: stoichiometry, stabilization, and kinetics. Lookene A, et al. **Biochemistry** 1996 Sep 17; 35(37):12155-63

Interaction of lipoproteins with heparan sulfate proteoglycans and with lipoprotein lipase. Studies by surface plasmon resonance technique. Lookene A, et al. **Biochemistry** 1997 Apr 29;36(17):5267-75

Excitatory amino acid regulation of astrocyte proteoglycans. Chisamore B, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):22-8

Heparan sulfate proteoglycan synthesis and its expression are decreased in the retina of diabetic rats. Bollineni JS, et al. **Curr Eye Res** 1997 Feb;16(2):127-30

Differential effects of transforming growth factors on localization of adhesion complex proteins following corneal epithelial cell wounding. Gassner HL, et al. **Curr Eye Res** 1997 Apr;16(4):387-95

Non-receptor-mediated tissue localization of human interferon-gamma: role of heparan sulfate/heparin-like molecules. Lortat-Jacob H, et al. **Cytokine** 1996 Jul; 8(7):557-66

A proteoglycan that activates fibroblast growth factors during early neuronal development is a perlecan variant. Joseph SJ, et al. **Development** 1996 Nov;122(11):3443-52

Synthesis and processing of glypican during differentiation of skeletal muscle cells. Brandan E, et al. **Eur J Cell Biol** 1996 Oct;71(2):170-6

Perlecan is responsible for thrombospondin 1 binding on the cell surface of cultured porcine endothelial cells. Vischer P, et al. **Eur J Cell Biol** 1997 Aug;73(4):332-43

Is the sensitivity of cells for FGF-1 and FGF-2 regulated by cell surface heparan sulfate proteoglycans? Zhou FY, et al. **Eur J Cell Biol** 1997 Jun;73(2):166-74

Heparan sulfate proteoglycans play a dual role in regulating fibroblast growth factor-2 mitogenic activity in human breast cancer cells. Delehedde M, et al. **Exp Cell Res** 1996 Dec 15;229(2):398-406

Involvement of heparan sulfate proteoglycans in the binding step for phagocytosis of latex beads by Chinese hamster ovary cells. Fukasawa M, et al. **Exp Cell Res** 1997 Jan 10;230(1):154-62

Heparan sulphate proteoglycans and diabetic nephropathy. van der Woude FJ, et al. **Exp Nephrol** 1997 May-Jun; 5(3):180-8 (77 ref.)

The malaria circumsporozoite protein: interaction of the conserved regions I and II-plus with heparin-like oligosaccharides in heparan sulfate. Ying P, et al. **Exp Parasitol** 1997 Feb;85(2):168-82

Helicobacter pylori interacts with heparin and heparin-dependent growth factors. Ascencio F, et al. **FEMS Immunol Med Microbiol** 1995 Dec;12(3-4):265-72

Glypican (heparan sulfate proteoglycan) is palmitoylated, deglycanated and reglycanated during recycling in skin fibroblasts. Edgren G, et al. **Glycobiology** 1997 Feb; 7(1):103-12

Lack of acidic fibroblast growth factor activation by heparan sulfate species from diabetic rat skin. Bourin MC. **Glycoconj J** 1997 Jun;14(4):423-32

Binding of FGF-1 and FGF-2 to heparan sulphate proteoglycans of the mammalian lens capsule. Schulz MW, et al. **Growth Factors** 1997;14(1):1-13

Heparan sulfate proteoglycan expression in chronic cholestatic human liver diseases. Roskams T, et al. **Hepatology** 1996 Sep;24(3):524-32

Immunohistochemical study of endometrial microvascular basement membrane components in women using Norplant. Palmer JA, et al. **Hum Reprod** 1996 Oct;11(10):2142-50

Host cell heparan sulfate proteoglycans mediate attachment and entry of Listeria monocytogenes, and the listerial surface protein ActA is involved in heparan sulfate receptor recognition. Alvarez-Dominguez C, et al. **Infect Immun** 1997 Jan;65(1):78-88

Heparan sulfate proteoglycan expression in human lung-cancer cells. Nackaerts K, et al. **Int J Cancer** 1997 Jun 20;74(3):335-45

Real time observation of the binding of herpes simplex virus type 1 (HSV-1) to immobilized heparan sulfate and the neutralization of HSV-1 by sulfonated human immunoglobulin. Inoue K, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):233-5

Turnover of heparan sulfate depends on 2-O-sulfation of uronic acids. Bai X, et al. **J Biol Chem** 1997 Sep 12; 272(37):23172-9

Heparanases produce distinct populations of heparan sulfate glycosaminoglycans in Chinese hamster ovary cells. Bame KJ, et al. **J Biol Chem** 1997 Jan 24;272(4):2245-51

Abeta(1-40) prevents heparanase-catalyzed degradation of heparan sulfate glycosaminoglycans and proteoglycans in vitro. A role for heparan sulfate proteoglycan turnover in Alzheimer's disease. Bame KJ, et al. **J Biol Chem** 1997 Jul 4;272(27):17005-11

Identification of glypican as a dual modulator of the biological activity of fibroblast growth factors. Bonneh-Barkay D, et al. **J Biol Chem** 1997 May 9; 272(19):12415-21

Identification of sites in domain I of perlecan that regulate heparan sulfate synthesis. Dolan M, et al. **J Biol Chem** 1997 Feb 14;272(7):4316-22

Structural requirement of heparan sulfate for interaction with herpes simplex virus type 1 virions and isolated glycoprotein C. Feyzi E, et al. **J Biol Chem** 1997 Oct 3; 272(40):24850-7

Characterization of heparin and heparan sulfate domains binding to the long splice variant of platelet-derived growth factor A chain. Feyzi E, et al. **J Biol Chem** 1997 Feb 28;272(9):5518-24

A novel role of follistatin, an activin-binding protein, in the inhibition of activin action in rat pituitary cells. Endocytotic degradation of activin and its acceleration by follistatin associated with cell-surface heparan sulfate. Hashimoto O, et al. **J Biol Chem** 1997 May 23; 272(21):13835-42

Role of heparan sulfate proteoglycans in the uptake and degradation of tissue factor pathway inhibitor-coagulation factor Xa complexes. Ho G, et al. **J Biol Chem** 1997 Jul 4;272(27):16838-44

Divalent cations and heparin/heparan sulfate cooperate to control assembly and activity of the fibroblast growth factor receptor complex. Kan M, et al. **J Biol Chem** 1996 Oct 18;271(42):26143-8

Heparanase and a synthetic peptide of heparan sulfate-interacting protein recognize common sites on cell surface and extracellular matrix heparan sulfate. Marchetti D, et al. **J Biol Chem** 1997 Jun 20;272(25):15891-7

Segments in the C-terminal folding domain of lipoprotein lipase important for binding to the low density lipoprotein receptor-related protein and to heparan sulfate proteoglycans. Nielsen MS, et al. **J Biol Chem** 1997 Feb 28;272(9):5821-7

Heparin and heparan sulfate bind to snake cardiotoxin. Sulfated oligosaccharides as a potential target for cardiotoxin action. Patel HV, et al. **J Biol Chem** 1997 Jan 17;272(3):1484-92

Endothelial cell heparanase modulation of lipoprotein lipase activity. Evidence that heparan sulfate oligosaccharide is an extracellular chaperone. Pillarisetti S, et al. **J Biol Chem** 1997 Jun 20;272(25):15753-9

Heparin binding and oligomerization of hepatocyte growth factor/scatter factor isoforms. Heparan sulfate glycosaminoglycan requirement for Met binding and signaling. Sakata H, et al. **J Biol Chem** 1997 Apr 4; 272(14):9457-63

OCI-5/rat glypican-3 binds to fibroblast growth factor-2 but not to insulin-like growth factor-2. Song HH, et al. **J Biol Chem** 1997 Mar 21;272(12):7574-7

Specific binding of the chemokine platelet factor 4 to heparan sulfate. Stringer SE, et al. **J Biol Chem** 1997 Aug 15; 272(33):20508-14

The interaction between basic fibroblast growth factor and heparan sulfate can prevent the in vitro degradation of the glycosaminoglycan by Chinese hamster ovary cell heparanases. Tumova S, et al. **J Biol Chem** 1997 Apr 4; 272(14):9078-85

The low density lipoprotein receptor-related protein can function independently from heparan sulfate proteoglycans in tissue factor pathway inhibitor endocytosis. Warshawsky I, et al. **J Biol Chem** 1996 Oct 18;271(42):25873-9

Secreted glypican binds to the amyloid precursor protein of Alzheimer's disease (APP) and inhibits APP-induced neurite outgrowth. Williamson TG, et al. **J Biol Chem** 1996 Dec 6;271(49):31215-21

Interaction between Alzheimer's disease beta A4 precursor protein (APP) and the extracellular matrix: evidence for the participation of heparan sulfate proteoglycans. Cáceres J, et al. **J Cell Biochem** 1997 May;65(2):145-58

Heparan sulfate-binding peptide promotes the deposition of proteoglycans in the extracellular matrix. Colburn P, et al. **J Cell Biochem** 1997 Jun 15;65(4):574-90

Specific degradation of subendothelial matrix proteoglycans by brain-metastatic melanoma and brain endothelial cell heparanases. Marchetti D. **J Cell Physiol** 1997 Sep; 172(3):334-42

Subendothelial retention of lipoprotein (a). Evidence that reduced heparan sulfate promotes lipoprotein binding to subendothelial matrix. Pillarisetti S, et al. **J Clin Invest** 1997 Aug 15;100(4):867-74

Distribution and substrate properties of agrin, a heparan sulfate proteoglycan of developing axonal pathways. Halfter W, et al. **J Comp Neurol** 1997 Jun 23;383(1):1-17

Dual interaction of the malaria circumsporozoite protein with the low density lipoprotein receptor-related protein (LRP) and heparan sulfate proteoglycans. Shakibaei M, et al. **J Exp Med** 1996 Nov 1;184(5):1699-711

Heparan sulfate proteoglycan on leukemic cells is primarily involved in integrin triggering and its mediated adhesion to endothelial cells. Tanaka Y, et al. **J Exp Med** 1996 Nov 1;184(5):1987-97

Heparan sulfate proteoglycans mediate internalization and degradation of beta-VLDL and promote cholesterol accumulation by pigeon macrophages. Seo T, et al. **J Lipid Res** 1997 Apr;38(4):765-79

Lipoprotein lipase-enhanced binding of human triglyceride-rich lipoproteins to heparan sulfate: modulation by apolipoproteins E and apolipoprotein C. van Barlingen HH, et al. **J Lipid Res** 1996 Apr;37(4):754-63

Identification of heparan sulphate binding surface proteins of Helicobacter pylori: inhibition of heparan sulphate binding with sulphated carbohydrate polymers. Utt M, et al. **J Med Microbiol** 1997 Jul;46(7):541-6

A membrane-bound heparan sulfate proteoglycan that is

transiently expressed on growing axons in the rat brain. Watanabe E, et al. **J Neurosci Res** 1996 Apr 1;44(1):84–96

Efficient infection of cells in culture by type O foot–and–mouth disease virus requires binding to cell surface heparan sulfate. Jackson T, et al. **J Virol** 1996 Aug; 70(8):5282–7

Bovine herpesvirus 1 glycoprotein B does not productively interact with cell surface heparan sulfate in a pseudorabies virion background. Klupp BG, et al. **J Virol** 1997 Jun; 71(6):4838–41

Role of the extracellular domain of human herpesvirus 7 glycoprotein B in virus binding to cell surface heparan sulfate proteoglycans. Secchiero P, et al. **J Virol** 1997 Jun; 71(6):4571–80

Lipoprotein lipase–enhanced binding of lipoprotein(a) [Lp(a)] to heparan sulfate is improved by apolipoprotein E (apoE) saturation: secretion–capture process of apoE is a possible route for the catabolism of Lp(a). van Barlingen HH, et al. **Metabolism** 1997 Jun;46(6):650–5

Ligand binding to heparan sulfate proteoglycans induces their aggregation and distribution along actin cytoskeleton. Martinho RG, et al. **Mol Biol Cell** 1996 Nov;7(11):1771–88

Evidence that heparin binding autocrine factors modulate testosterone production by the adult rat Leydig cell. McFarlane JR, et al. **Mol Cell Endocrinol** 1996 Apr 19; 118(1–2):57–63

Dengue virus infectivity depends on envelope protein binding to target cell heparan sulfate [see comments] Chen Y, et al. **Nat Med** 1997 Aug;3(8):866–71. Comment in: Nat Med 1997 Aug;3(8):828–9.

A putative cellular receptor for dengue viruses [news; comment] Putnak JR, et al. **Nat Med** 1997 Aug;3(8):828–9 . Comment on: Nat Med 1997 Aug;3(8):866–71.

Assembly of microtubule–associated protein tau into Alzheimer–like filaments induced by sulphated glycosaminoglycans [see comments] Goedert M, et al. **Nature** 1996 Oct 10;383(6600):550–3. Comment in: Nature 1996 Oct 10;383(6600):476–7.

Vessel wall heparan sulfate and transcapillary passage of albumin in experimental diabetes in the rat. van den Born J, et al. **Nephrol Dial Transplant** 1997;12 Suppl 2:27–31

Human brain beta–secretase contains heparan sulfate glycoconjugates. Matsumoto A, et al. **Neurosci Lett** 1996 Jun 21;211(2):105–8

The glypican family of heparan sulfate proteoglycans: major cell–surface proteoglycans of the developing nervous system. Lander AD, et al. **Perspect Dev Neurobiol** 1996; 3(4):347–58 (69 ref.)

A heparin–binding synthetic peptide of heparin/heparan sulfate–interacting protein modulates blood coagulation activities. Liu S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1739–44

A recombinant Chlamydia trachomatis major outer membrane protein binds to heparan sulfate receptors on epithelial cells. Su H, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11143–8

Determination of heparan sulphate in kidney tissues of patients with calcium nephrolithiasis. Chan VS, et al. **Urol Res** 1995;23(5):339–42

Phagocytosis of Helicobacter pylori bacteria differing in the heparan sulfate binding by human polymorphonuclear leukocytes. Chmiela M, et al. **Zentralbl Bakteriol** 1996 Mar; 283(3):346–50

PHARMACOKINETICS

Altered distribution of heparan sulfate proteoglycans in psoriasis. Seyger MM, et al. **Acta Derm Venereol** 1997 Mar; 77(2):105–9

PHARMACOLOGY

Inhibition of neointimal formation by natural heparan sulfate proteoglycans of the arterial wall. Bingley JA, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:238–42; 242–4 (19 ref.)

Inhibition of three alphaherpesviruses (herpes simplex 1 and 2 and pseudorabies virus) by heparin, heparan and other sulfated polyelectrolytes [published erratum appears in Arch Med Res 1996 Summer;27(2):following 255] Ramos–Kuri M, et al. **Arch Med Res** 1996 Spring;27(1):43–8

Heparin oligosaccharides: inhibitors of the biological activity of bFGF on Caco–2 cells. Jayson GC, et al. **Br J Cancer** 1997;75(1):9–16

Glomerular basement membrane–derived perlecan inhibits mesangial cell adhesion to fibronectin. Gauer S, et al. **Eur J Cell Biol** 1996 Jul;70(3):233–42

Binding, internalization, and degradation of antiproliferative heparan sulfate by human embryonic lung fibroblasts. Arroyo–Yanguas Y, et al. **J Cell Biochem** 1997 Mar 15; 64(4):595–604

Danaparoid: an antithrombotic agent without major impact on triglyceride hydrolysis capacity in humans. van Barlingen HH, et al. **J Intern Med** 1997 Aug;242(2):125–9

Heparan preserves intestinal perfusion after hemorrhage and resuscitation. Watkins JM, et al. **J Surg Res** 1996 Dec; 66(2):154–8

Inhibition of mitogenesis and c–fos induction in mesangial cells by heparin and heparan sulfates. Wang A, et al. **Kidney Int** 1996 Feb;49(2):437–48

Chlamydia trachomatis glycosaminoglycan–dependent and independent attachment to eukaryotic cells. Chen JC, et al. **Microb Pathog** 1997 Jan;22(1):23–30

Heparan sulfate potentiates the autocrine action of basic fibroblast growth factor in astrocytes: an in vivo and in vitro study. Gómez–Pinilla F, et al. **Neuroscience** 1997 Jan; 76(1):137–45

Effect of suleparoide on fibrinolysis in the anterior chamber of rabbits. Lepri A, et al. **Ophthalmic Res** 1996;28(3):176–83

PHYSIOLOGY

Heparan sulfate in immune responses. Selvan RS, et al. **Ann N Y Acad Sci** 1996 Oct 25;797:127–39 (106 ref.)

Heparan sulfate proteoglycans. Essential co–factors in receptor–mediated processes with relevance to the biology of the vascular wall. David G, et al. **Atherosclerosis** 1995 Dec;118 Suppl:S57–67 (75 ref.)

Heparan sulfate proteoglycans function in the binding and degradation of vitronectin by fibroblast monolayers. Wilkins–Port CE, et al. **Biochem Cell Biol** 1996; 74(6):887–97

Human leucocyte heparan sulphate proteoglycans and their roles in inflammation. Jackson DG. **Biochem Soc Trans** 1997 Feb;25(1):220–4 (23 ref.)

Glycoconjugate cross–talk in metastatic cancer cells, leucocytes, parasites and bacteria. Leroy A, et al. **Biochem Soc Trans** 1997 Feb;25(1):228–34 (48 ref.)

Involvement of heparan sulfate and related molecules in sequestration and growth promoting activity of fibroblast growth factor. Vlodavsky I, et al. **Cancer Metastasis Rev** 1996 Jun;15(2):177–86 (57 ref.)

A role for perlecan in the suppression of growth and invasion in fibrosarcoma cells. Mathiak M, et al. **Cancer Res** 1997 Jun 1;57(11):2130–6

The Belgian Society for Cell Biology and NFWO Research Community on Cell–Matrix Interactions. Heparan sulfate proteoglycans in development and malignancy. Ghent, Belgium, 7–8 1996. Proceedings and abstracts. **Cell Biol Int** 1997 Jan;21(1):37–61

A proteoglycan that activates fibroblast growth factors during early neuronal development is a perlecan variant. Joseph SJ, et al. **Development** 1996 Nov;122(11):3443–52

Essential role of heparan sulfates in axon navigation and targeting in the developing visual system. Walz A, et al. **Development** 1997 Jun;124(12):2421–30

Heparin inhibition of insulin–like growth factor–binding protein–3 binding to human fibroblasts and rat glioma cells: role of heparan sulfate proteoglycans. Yang YW, et al. **Endocrinology** 1996 Oct;137(10):4363–71

Specific involvement of glypican in thrombin adhesive properties [published erratum appears in J Cell Biochem 1996 Jul;62(1):144] Bar–Shavit R, et al. **J Cell Biochem** 1996 May;61(2):278–91

Monocyte adhesion to activated aortic endothelium: role of L–selectin and heparan sulfate proteoglycans. Giuffrè L, et al. **J Cell Biol** 1997 Feb 24;136(4):945–56

Extracellular matrix heparan sulfate modulates endothelial cell susceptibility to Staphylococcus aureus. Alston WK, et al. **J Cell Physiol** 1997 Oct;173(1):102–9

The role of stromal cell heparan sulphate in regulating haemopoiesis. Coombe DR. **Leuk Lymphoma** 1996 May; 21(5–6):399–406 (82 ref.)

Role of cell surface glycosaminoglycans of human T cells in human immunodeficiency virus type–1 (HIV–1) infection. Ohshiro Y, et al. **Microbiol Immunol** 1996; 40(11):827–35

Perlecan regulates Oct–1 gene expression in vascular smooth muscle cells. Weiser MC, et al. **Mol Biol Cell** 1997 Jun; 8(6):999–1011

N–syndecan: structure and function of a transmembrane heparan sulfate proteoglycan. Carey DJ. **Perspect Dev Neurobiol** 1996;3(4):331–46 (77 ref.)

Agrin: an extracellular matrix heparan sulfate proteoglycan involved in cell interactions and synaptogenesis. Cole GJ, et al. **Perspect Dev Neurobiol** 1996;3(4):359–71 (86 ref.)

THERAPEUTIC USE

Danaparoid in the prevention of thromboembolic complications. Skoutakis VA. **Ann Pharmacother** 1997 Jul–Aug;31(7–8):876–87 (81 ref.)

Cardiopulmonary bypass using lomoparan: monitoring of anticoagulation using anti–Xa levels and thromboelastography. Sharma S, et al. **Aust N Z J Surg** 1997 Jun;67(6):392–4

The use of low dose Orgaran in heparin–induced thrombocytopenia associated with in vitro platelet aggregation at higher Orgaran concentrations. Hill GR, et al. **Clin Lab Haematol** 1997 Jun;19(2):155–7

Design of the Trial of Org 10172 in Acute Stroke Treatment (TOAST). Adams HP Jr, et al. **Control Clin Trials** 1997 Aug;18(4):358–77

Pathogenesis of diabetic vascular disease: evidence for the role of reduced heparan sulfate proteoglycan. Jensen T. **Diabetes** 1997 Sep;46 Suppl 2:S98–100 (23 ref.)

Danaparoid sodium lowers proteinuria in diabetic nephropathy. van der Pijl JW, et al. **J Am Soc Nephrol** 1997 Mar;8(3):456–62

Treatment of heparin–induced thrombocytopenia [letter] Peters FP. **J Thorac Cardiovasc Surg** 1997 Sep;114(3):517–8

Thromboembolic complications in a patient with heparin–induced thrombocytopenia (HIT) showing cross–reactivity to a low molecular weight heparin–treatment with Org 10172 (Lomoparan). Muhm M, et al. **Wien Klin Wochenschr** 1997 Feb 28;109(4):128–31

[Use of Orgaran for extracorporeal circulation in a patient allergic to heparin (letter)] Bretelle C, et al. **Presse Med** 1996 Nov 30;25(37):1846–7 **(Fre)**

[Value of organan in hemodialysis during heparin–induced thrombopenia (letter)] Lamriben L, et al. **Presse Med** 1996 Sep 28;25(28):1303 **(Fre)**

[Introduction of definite molecular weight heparan sulfate in a protocol of prevention of deep venous thrombosis in prosthetic orthopedic surgery] Mandò M, et al. **Minerva Cardioangiol** 1996 Sep;44(9):457–60 (Eng. Abstr.) **(Ita)**

[Effectiveness and tolerability of heparan sulfate in the treatment of superficial thrombophlebitis. Controlled clinical study vs sulodexide] Messa G, et al. **Minerva Cardioangiol** 1997 Apr;45(4):147–53 (Eng. Abstr.) **(Ita)**

[Therapeutic use of heparan sulfate in nephrotic syndrome: rational use] Viale S, et al. **Minerva Med** 1996 Dec; 87(12):599–603 (Eng. Abstr.) **(Ita)**

TOXICITY

Neurotoxicity of the 22 kDa thrombin–cleavage fragment of apolipoprotein E and related synthetic peptides is receptor–mediated. Tolar M, et al. **J Neurosci** 1997 Aug 1;17(15):5678–86

URINE

Altered composition of urinary heparan sulfate in patients with COPD. van de Lest CH, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):952–8

Purification and characterization of perlecan fragment in urine of end–stage renal failure patients. Oda O, et al. **Clin Chim Acta** 1996 Nov 29;255(2):119–32

Urinary glycosaminoglycan excretion in NIDDM subjects: its relationship to albuminura. McAuliffe AV, et al. **Diabet Med** 1996 Aug;13(8):758–63

Association between heparan sulfate proteoglycan excretion and proteinuria after renal transplantation. Stefanidis I, et al. **J Am Soc Nephrol** 1996 Dec;7(12):2670–6

Differences in the nonreducing ends of heparan sulfates excreted by patients with mucopolysaccharidoses revealed by bacterial heparitinases: a new tool for structural studies and differential diagnosis of Sanfilippo's and Hunter's syndromes. Toma L, et al. **Lab Invest** 1996 Dec; 75(6):771–81

HEPATECTOMY

see related

LIVER REGENERATION

Hepatic resection of liver metastases from gastric carcinoma. Miyazaki M, et al. **Am J Gastroenterol** 1997 Mar; 92(3):490–3

Thyroxine–binding globulin and thyroid hormones after resection of hepatocellular carcinoma. Nagasue N, et al. **Am J Gastroenterol** 1997 Jul;92(7):1187–9

Preoperative predictors of blood transfusion in liver resection for tumor. Mariette D, et al. **Am J Surg** 1997 Apr; 173(4):275–9

Hepatic resection for hepatocellular carcinoma. Nonami T, et al. **Am J Surg** 1997 Apr;173(4):288–91

A study of prognostic factors for hepatic resection for colorectal metastases. Taylor M, et al. **Am J Surg** 1997 Jun;173(6):467–71

Hepatic resection for metastatic colorectal cancer. Jenkins LT, et al. **Am Surg** 1997 Jul;63(7):605–10

Aprotinin reduces blood loss in patients undergoing elective liver resection. Lentschener C, et al. **Anesth Analg** 1997 Apr;84(4):875–81

Left–sided approach to renal cell carcinoma tumor thrombus extending into suprahepatic inferior vena cava by resection of the left caudate lobe. Ohwada S, et al. **Angiology** 1997 Jul;48(7):629–35

Repeat hepatectomy for colorectal liver metastases. Adam R, et al. **Ann Surg** 1997 Jan;225(1):51–60; discussion 60–2

Significant influence of accompanying chronic hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy. Result of multivariate analysis [see comments] Ko S, et al. **Ann Surg** 1996 Nov;224(5):591–5 . Comment in: Ann Surg 1996 Nov;224(5):596–7.

Influence of accompanying chronic hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy [editorial; comment] Russell PS. **Ann Surg** 1996 Nov; 224(5):596–7. Comment on: Ann Surg 1996 Nov;224(5):591–5.

Repeat hepatic resection as effective treatment of recurrent colorectal liver metastases. Tuttle TM, et al. **Ann Surg Oncol** 1997 Mar;4(2):125–30

Bacterial translocation during portal clamping for liver resection. A clinical study. Ferri M, et al. **Arch Surg** 1997 Feb;132(2):162–5

Pancreatoduodenectomy (Whipple resection) with resection of hepatic metastases for carcinoma of the exocrine pancreas [letter] Howard JM. **Arch Surg** 1997 Sep; 132(9):1044

Hepatic resection for metastatic colorectal cancer results in cure for some patients. Jamison RL, et al. **Arch Surg** 1997 May;132(5):505–10; discussion 511

Transient down–regulation of inhibin–betaC expression following partial hepatectomy. Esquela AF, et al. **Biochem Biophys Res Commun** 1997 Jun 27;235(3):553–6

Renal tubular sodium handling determined by lithium

clearance in partially hepatectomized rats. Quadros MR, et al. **Braz J Med Biol Res** 1996 Aug;29(8):1077–83

Effect of exogenous gamma-aminobutyric acid (GABA) on hepatic insulin-like growth factor I (IGF-I) and IGF-I binding protein (IGFBP-I) mRNA abundance following partial hepatectomy in rats. Minuk GY, et al. **Can J Physiol Pharmacol** 1995 Nov;73(11):1546–51

Relationship between the recurrence of hepatocellular carcinoma (HCC) and serum alanine aminotransferase levels in hepatectomized patients with hepatitis C virus-associated cirrhosis and HCC. Tarao K, et al. **Cancer** 1997 Feb 15;79(4):688–94

Prognostic factors affecting long-term survival after partial hepatectomy for human hepatocellular carcinoma. Chiu ST, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Mar; 59(3):177–85

Influence of partial hepatectomy in rats on the activity of hepatic microsomal enzymatic systems. Maza AM, et al. **Eur J Drug Metab Pharmacokinet** 1997 Jan-Mar; 22(1):15–23

Simple in situ hypothermia reduced ischaemic injury to human liver during hepatectomy. Kim YI, et al. **Eur J Surg** 1996 Sep;162(9):717–21

Effect of serum from partially hepatectomized cirrhotic and noncirrhotic rats on liver regeneration with primary hepatocyte cultures. Chen MF, et al. **Eur Surg Res** 1996; 28(6):413–8

Increased serum interleukin-6 level and reduction of hepatic acute-phase response after major hepatectomy. Kimura F, et al. **Eur Surg Res** 1996;28(2):96–103

Endogenous endotoxemia after massive hepatectomy and portal vein stenosis: beneficial effect of a prostaglandin I2 analogue on intestinal permeability. Sakaguchi T, et al. **Eur Surg Res** 1996;28(5):341–50

Experimental measure of the tensile strength of biological sealant-collagen association after hepatectomy in dogs. Scotté M, et al. **Eur Surg Res** 1996;28(6):436–9

Regrowth of the rat biliary tree after 70% partial hepatectomy is coupled to increased secretin-induced ductal secretion. Lesage G, et al. **Gastroenterology** 1996 Dec;111(6):1633–44

Giant hemangiomas of the liver: surgical treatment by liver resection. Borgonovo G, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):231–4

Long-term follow-up of endoscopic therapy in patients with post-surgical biliary leakage. Born P, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):477–82

Does a long pre-operative hospital stay before hepatectomy improve liver dysfunction in HCC patients with chronic liver disease? Ezaki T, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):472–6

Hepatectomy for metastatic renal cell carcinoma. Fujisaki S, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):817–9

Early recurrence after surgery of hepatocellular carcinoma. Ikeda Y, et al. **Hepatogastroenterology** 1995 Sep-Oct; 42(5):469–72

Effects of biliary obstruction on hepatic deoxyribonucleic acid and protein synthesis after partial hepatectomy. Kimura F, et al. **Hepatogastroenterology** 1997 Mar-Apr; 44(14):501–7

Reconstruction of the inferior vena cava using a hepatic venous patch obtained from resected liver. Kubota K, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):378–9

Multidisciplinary management of hepatocellular carcinoma. Lygidakis NJ, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1611–9

Morbidity and mortality after hepatic resection in the modern era. Matsumata T, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):456–60

Renal function after elective hepatic resection. Matsumata T, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):602–7

Urinary excretion of prostaglandins and renal function after hepatic resection. Matsumata T, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):774–8

Levels of human hepatocyte growth factor (hHGF) in peritoneal fluid after partial hepatectomy. Miyata K, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1594–600

Nutritional support after hepatic resection: a randomized prospective study. Nishizaki T, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):608–13

Hepatic resection for hepatocellular carcinoma with a tumor thrombus extending to inferior vena cava. Nonami T, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):798–802

Arterial chemoembolization in hepatocellular carcinoma suitable for resective surgery. Portolani N, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1566–74

The role of interleukin-6, interleukin-16, tumor necrosis factor-alpha and endotoxin in hepatic resection. Shimada M, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):691–7

The role of prostanoid in hepatic damage during hepatectomy. Shirabe K, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):596–601

Impaired systemic immunity and frequent infection in patients with Candida antigen after hepatectomy. Shirabe K, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):199–204

A comparison of parenteral hyperalimentation and early enteral feeding regarding systemic immunity after major hepatic resection—the results of a randomized prospective study. Shirabe K, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):205–9

Simultaneous hepatic resection with pancreato-duodenectomy for metastatic pancreatic head carcinoma: does it improve survival? Takada T, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):567–73

Circulating intercellular adhesion molecule-1 in patients with hepatocellular carcinoma before and after hepatic resection. Taketomi A, et al. **Hepatogastroenterology** 1997 Mar-Apr; 44(14):477–83

Extension of surgical indication for advanced hepatocellular carcinoma: is it possible to prolong life span or improve quality of life? Tanaka A, et al. **Hepatogastroenterology** 1996 Sep-Oct;43(11):1172–81

Human erythrocyte polyamine levels after partial hepatectomy. Tsukamoto T, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):744–50

Selective enhancement of lipid peroxidation in plasma membrane in two experimental models of liver regeneration: partial hepatectomy and acute CC14 administration. Aguilar-Delfin I, et al. **Hepatology** 1996 Sep;24(3):657–62

kan-1 (bile acid CoA:amino acid N-acyltransferase) messenger RNA as a novel predictive indicator for prognosis of hepatocellular carcinoma patients after partial hepatectomy. Furutani M, et al. **Hepatology** 1996 Dec; 24(6):1441–5

Effect of sialoadenectomy and epidermal growth factor administration on liver regeneration after partial hepatectomy. Lambotte L, et al. **Hepatology** 1997 Mar; 25(3):607–12

Liver cell proliferation induced by nafenopin and cyproterone acetate is not associated with increases in activation of transcription factors NF-kappaB and AP-1 or with expression of tumor necrosis factor alpha. Menegazzi M, et al. **Hepatology** 1997 Mar;25(3):585–92

Treatment of fibrolamellar hepatoma with subtotal hepatectomy or transplantation. Pinna AD, et al. **Hepatology** 1997 Oct;26(4):877–83

Is there a role for perioperative nutritional support in liver resection? Bothe A Jr, et al. **HPB Surg** 1997;10(3):177–9 (8 ref.)

Clinical observation: congenital absence of the left portal vein in a patient undergoing hepatic resection. Charny CK, et al. **HPB Surg** 1997;10(5):323–6; discussion 326–7

Is hepatectomy necessary in dealing with left hepatolithiasis with intrahepatic duct stricture? Franco D. **HPB Surg** 1997; 10(4):265–8

Nonabsorbable antibiotics reduce bacterial and endotoxin translocation in hepatectomised rats. Kakkos SK, et al. **HPB Surg** 1997;10(5):283–9; discussion 289–91

ICG clearance in assessing cirrhotic patients with hepatocellular carcinoma for major hepatic resection. Kitano S, et al. **HPB Surg** 1997;10(3):182–3 (9 ref.)

Type IVA choledochal cyst: is hepatic resection necessary? Strong R. **HPB Surg** 1996;10(1):61–3

Hepatopancreatoduodenectomy in advanced carcinoma gall bladder. Kumar R, et al. **Indian J Gastroenterol** 1996 Apr; 15(2):68–9

Angiomyolipoma of the liver. Chaib E, et al. **Int Surg** 1996 Jul-Sep;81(3):320–2

The effect of a perioperative steroid pulse on surgical stress in hepatic resection. Shimada M, et al. **Int Surg** 1996 Jan-Mar;81(1):49–51

Terminology of liver anatomy and liver resections: coming to grips with hepatic Babel. Strasberg SM. **J Am Coll Surg** 1997 Apr;184(4):413–34 (26 ref.)

Effect of glutamine or glucagon-insulin enriched total parenteral nutrition on liver and gut in 70% hepatectomized rats with colon stenosis. Yamaguchi T, et al. **J Am Coll Surg** 1997 Aug;185(2):156–62

Liver resection for colorectal metastases. Fong Y, et al. **J Clin Oncol** 1997 Mar;15(3):938–46

Right hepatectomy for pyogenic liver abscesses with true multiloculation. Kurosaki I, et al. **J Gastroenterol** 1997 Feb; 32(1):105–9

Premedication with cyclosporine and perindopril modifies the ischaemia-reperfusion injury during liver resection in rats. Hardy KJ, et al. **J Gastroenterol Hepatol** 1996 Jul; 11(7):652–7

Effect of quinolone antibiotics on hepatic growth and protein synthesis following partial hepatectomy in rats [see comments] Minuk GY, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):54–7. Comment in: J Gastroenterol Hepatol 1997 Jan;12(1):44–6.

Pathophysiological changes caused by occlusion of blood flow into the liver during hepatectomy in dogs with obstructive jaundice: effects of intestinal congestion. Takahashi K, et al. **J Gastroenterol Hepatol** 1996 Oct; 11(10):963–70

Liver resection or transplantation for hepatocellular carcinoma? Retrospective analysis of 215 patients with cirrhosis. Michel J, et al. **J Hepatol** 1997 Jun;26(6):1274–80

Expression of messenger RNA for liver functions following 70% and 90% hepatectomy. Tygstrup N, et al. **J Hepatol** 1996 Jul;25(1):72–8

Dietary nucleotides: effects on cell proliferation following partial hepatectomy in rats fed NIH-31, AIN-76A, or folate/methyl-deficient diets. Jackson CD, et al. **J Nutr** 1997 May;127(5 Suppl):834S–837S

Study on optimal fat content in total parenteral nutrition in partially hepatectomized rats. Abe S, et al. **J Nutr Sci Vitaminol (Tokyo)** 1997 Apr;43(2):187–98

Current position of advanced laparoscopic surgery of the liver. Hüscher CG, et al. **J R Coll Surg Edinb** 1997 Aug; 42(4):219–25

Significance of alpha-fetoprotein levels for detection of early recurrence of hepatocellular carcinoma after hepatic resection. Shirabe K, et al. **J Surg Oncol** 1997 Feb; 64(2):143–6

Indocyanine green disappearance enhanced by prostaglandin E1 in patients with hepatic resection. Tsukada K, et al. **J Surg Res** 1996 Nov;66(1):64–8

Liver regeneration in children after major hepatectomy for malignancy--evaluation using a computer-aided technique of volume measurement. Wheatley JM, et al. **J Surg Res** 1996 Feb 15;61(1):183–9

Surgery for metachronous solitary liver metastases of renal cell carcinoma. Stief CG, et al. **J Urol** 1997 Aug; 158(2):375–7

Effects of age and caloric restriction on cell proliferation in hepatocyte cultures from control and hepatectomized Fischer 344 rats. Shaddock JG, et al. **Mutagenesis** 1996 May;11(3):281–4

Mutant frequency of lacI in transgenic mice following benzo[a]pyrene treatment and partial hepatectomy. Shane BS, et al. **Mutat Res** 1997 Jun 9;377(1):1–11

Improved liver function following infusion of fructose-1, 6-bisphosphate in posthepatectomy patients. Nakai T, et al. **Nippon Geka Hokan** 1996 Jan 1;65(1):3–12

The selection of suitable substrates for hepatic energy metabolism after massive hepatectomy [editorial] Jin MB, et al. **Nutrition** 1997 Apr;13(4):386–7 (6 ref.)

The effect of a nucleotide-nucleoside solution on hepatic regeneration in rats after partial hepatectomy and in primary monolayer culture of hepatocytes. Usami M, et al. **Nutrition** 1997 Apr;13(4):365–8

Effect of a parenteral nucleoside-nucleotide mixture on hepatic metabolism in partially hepatectomized cirrhotic rats. Usami M, et al. **Nutrition** 1996 Jun;12(6):436–9

The effect of a nucleotide-nucleoside solution on hepatic regeneration after partial hepatectomy in rats. Usami M, et al. **Nutrition** 1996 Nov-Dec;12(11–12):797–803

Reduction of hepatic acute phase response after partial hepatectomy in elderly patients. Kimura F, et al. **Res Exp Med (Berl)** 1996;196(5):281–90

Regional adjuvant chemotherapy after partial hepatectomy for metastatic colorectal carcinoma. Nonami T, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6-130–S6-134

Results of 90 consecutive hepatectomies for hepatocellular carcinoma: a multivariate analysis of survival. Tani M, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6-1–6

Serum transforming growth factor-alpha level can be a parameter for evaluating liver regeneration after partial hepatectomy in patients with liver cancer. Tomiya T, et al. **Semin Oncol** 1997 Apr;24(2 Suppl 6):S6-14–S6-17

Re-resection for colorectal liver metastasis. Bismuth H, et al. **Surg Oncol Clin N Am** 1996 Apr;5(2):353–64 (52 ref.)

Omental delivery of prostaglandin E1 effectively increases portal venous blood flow in 66%-hepatectomized rats. Aono T, et al. **Surg Today** 1997;27(5):473–6

Transient hepatofugal portal blood flow after hepatectomy in a patient with cirrhosis: report of a case. Kajikawa M, et al. **Surg Today** 1996;26(9):719–22

Beneficial effects of administering intraportal prostaglandin E1 postoperatively to hepatectomy patients with massive intraoperative blood loss. Katsuramaki T, et al. **Surg Today** 1996;26(11):895–9

Enhancement of portal blood flow by ursodesoxycholic acid in partially hepatectomized rats. Ohtake M, et al. **Surg Today** 1996;26(2):142–4

Changes in liver blood flow after hepatectomy in conscious dogs. Sato T, et al. **Surg Today** 1996;26(9):688–93

Acute portal hypertension reflecting shear stress as a trigger of liver regeneration following partial hepatectomy. Sato Y, et al. **Surg Today** 1997;27(6):518–26

Clinical evaluation of closed suction drainage following hepatectomy. Uetsuji S, et al. **Surg Today** 1997; 27(4):298–301

Effect of preoperative portal vein embolization on major hepatectomy for advanced-stage hepatocellular carcinomas in injured livers: a preliminary report. Wakabayashi H, et al. **Surg Today** 1997;27(5):403–10

Proposal of invasiveness score to predict recurrence and survival after curative hepatic resection for hepatocellular carcinoma. el-Assal ON, et al. **Surgery** 1997 Sep; 122(3):571–7

Hepatic resection for noncolorectal, nonneuroendocrine metastases: a fifteen-year experience with ninety-six patients. Harrison LE, et al. **Surgery** 1997 Jun;121(6):625–32

Functional capacity of the liver after two-thirds partial hepatectomy in the rat. Hashimoto M, et al. **Surgery** 1997 Jun;121(6):690–7

Role of right hepatic lobectomy in the treatment of isolated right-sided hepatolithiasis. Hung CJ, et al. **Surgery** 1997 Feb;121(2):130–4

Efficacy and safety of preoperative percutaneous transhepatic portal embolization with absolute ethanol: a clinical study. Shimamura T, et al. **Surgery** 1997 Feb;121(2):135–41

Pharmacokinetics of intravenous adriamycin for anhepatic chemotherapy during liver transplantation. Kitagawa T, et al. **Transpl Int** 1996;9 Suppl 1:S105–8

Is transplantation really superior to resection in the treatment of small hepatocellular carcinoma? Otto G, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):489–91

Anatomic dissociation between the intrahepatic bile duct and portal vein: risk factors for left hepatectomy. Cheng YF, et al. **World J Surg** 1997 Mar-Apr;21(3):297–300

Repeat hepatic resection for recurrent colorectal cancer. Chu QD, et al. **World J Surg** 1997 Mar–Apr;21(3):292–6

Metastatic endocrine tumors: medical treatment, surgical resection, or liver transplantation. Dousset B, et al. **World J Surg** 1996 Sep;20(7):908–14; discussion 914–5

Influence of associated viral hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy. Ko S, et al. **World J Surg** 1996 Oct;20(8):1082–6

Reuse of liver grafts after early death of the first recipient. Moreno González E, et al. **World J Surg** 1996 Mar–Apr; 20(3):309–12; discussion 312–3

High preoperative serum alanine transferase levels: effect on the risk of liver resection in Child grade A cirrhotic patients. Noun R, et al. **World J Surg** 1997 May;21(4):390–4; discussion 395

[Limited liver resection for liver metastases in colorectal carcinoma] Visokai V, et al. **Rozhl Chir** 1996 Mar; 75(3):139–42 (Eng. Abstr.) **(Cze)**

[Indications for resection of the liver in benign and malignant diseases] Vyhnánek F, et al. **Rozhl Chir** 1996 Jun; 75(6):293–6 (Eng. Abstr.) **(Cze)**

[Surgical treatment of synchronous hepatic metastases of colorectal cancers. Simultaneous or delayed resection?] Jaeck D, et al. **Ann Chir** 1996;50(7):507–12; discussion 13–6 (Eng. Abstr.) **(Fre)**

[Hepatic resection for breast cancer metastasis. The concept of adjuvant surgery] Pocard M, et al. **Bull Cancer** 1997 Jan;84(1):47–50 (Eng. Abstr.) **(Fre)**

[Liver resections of metastases of non–colorectal primary tumors] Seifert JK, et al. **Chirurg** 1996 Feb;67(2):161–8 (Eng. Abstr.) **(Ger)**

[Comparison of liver resection with sequential transarterial chemoembolization in stage pT3 or pT4 hepatocellular carcinoma] Hasse F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:208–10 (Eng. Abstr.) **(Ger)**

[Results of operative therapy in sequential liver and lung metastasis] Piltz S, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:225–8 (Eng. Abstr.) **(Ger)**

[Surgical strategy in pediatric liver malignancies] von Schweinitz D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1091–4 (Eng. Abstr.) **(Ger)**

[Phospholipase A2—acute phase protein after liver surgery?] Gerhard F, et al. **Z Gastroenterol** 1997 Apr;35(4):247–53 (Eng. Abstr.) **(Ger)**

[Experiences with surgical therapy of hepatic echinococcosis] Gogas J, et al. **Zentralbl Chir** 1997;122(5):339–43 (Eng. Abstr.) **(Ger)**

[Resection therapy in the treatment of intrahepatic biliary lithiasis] Napolitano L, et al. **Ann Ital Chir** 1996 Sep–Oct; 67(5):647–50; discussion 651 (Eng. Abstr.) **(Ita)**

[Hemodynamic and metabolic impairment during hepatectomy: effect of continuous dobutamine infusion] Finco G, et al. **Chir Ital** 1995;47(5):33–9 (Eng. Abstr.) **(Ita)**

[Surgical treatment of liver metastases of breast carcinoma. Our experience] Anania G, et al. **Minerva Chir** 1997 Mar; 52(3):209–15 (Eng. Abstr.) **(Ita)**

[Hepatic resection in the fetal rabbit. Histologic comparison of tissue regeneration in the fetus versus the adult] Patricolo M, et al. **Minerva Chir** 1996 Nov;51(11):971–7 (Eng. Abstr.) **(Ita)**

[Evaluation of prophylactic hepatic arterial infusion chemotherapy after hepatectomy for metastases from colorectal cancer—the second report] Hasuike Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1451–3 (Eng. Abstr.) **(Jpn)**

[A patient with hepatocellular carcinoma originating from the caudate lobe, who underwent hepatectomy following microwave coagulation therapy] Kishimoto S, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1596–9 (Eng. Abstr.) **(Jpn)**

[Liver resection in a case of multiple liver metastases of gastric cancer following hepatic arterial infusion chemotherapy] Kobayashi T, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(10):1321–4 (Eng. Abstr.) **(Jpn)**

[Secondary hepatic resections in a case of sigmoid colon cancer with multiple liver metastasis (H3) after successful continuous hepatic artery infusion chemotherapy oriented by in vitro chemosensitivity test] Miura M, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):1031–4 (Eng. Abstr.) **(Jpn)**

[A case of successful management of advanced cholangiocellular carcinoma by repeated hepatic resection] Nakano H, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1603–6 (Eng. Abstr.) **(Jpn)**

[Hepatic resection with "wrapping therapy" for advanced hepatocellular carcinoma uncontrolled by arterial embolization] Sasaki Y, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1588–91 (Eng. Abstr.) **(Jpn)**

[Role of reservoirs in intraarterial chemotherapy for recurrent hepatocellular carcinoma after hepatectomy] Tomioka N, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1422–5 (Eng. Abstr.) **(Jpn)**

[The preventive effect of weekly high–dose 5–FU infusion (WHF) after resection of hepatic metastasis from colorectal cancer] Tsuji Y, et al. **Gan To Kagaku Ryoho** 1996 Sep; 23(11):1454–6 (Eng. Abstr.) **(Jpn)**

[Indication of prophylactic hepatic arterial–infusion chemotherapy after hepatic resection for liver metastases from colorectal cancer] Umekita N, et al. **Gan To Kagaku Ryoho** 1996 Sep;23(11):1457–60 (Eng. Abstr.) **(Jpn)**

[Intraoperative continuous epidural lidocaine combined with preoperative administration of epidural morphine for post–hepatectomy pain relief] Terai T, et al. **Masui** 1997 Jan;46(1):100–4 (Eng. Abstr.) **(Jpn)**

[Effects of ulinastatin on postoperative renal function in hepatectomized patients with liver cirrhosis] Ueki M, et al. **Masui** 1997 Feb;46(2):251–5 (Eng. Abstr.) **(Jpn)**

[Postoperative urinary ulinastatin secretion and renal function in hepatectomized patients with and without liver cirrhosis] Ueki M, et al. **Masui** 1996 Feb;45(2):178–82 (Eng. Abstr.) **(Jpn)**

[A case of hepatocellular carcinoma with solitary lymph node metastasis after liver resection] Fujimori Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):300–3 **(Jpn)**

[Expression and significance of PKC alpha in regenerating liver of rats after partial hepatectomy and CCl4 administration] Ishii Y. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):717–24 (Eng. Abstr.) **(Jpn)**

[Bacterial translocation induces remnant liver injury after subtotal (90%) hepatectomy in rats—the effect of decontamination of gram–negative rods in digestive tract by oral polymyxin B treatment] Iso A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):544–52 (Eng. Abstr.) **(Jpn)**

[A resected case of intrahepatic porto–venous shunt in noncirrhotic liver] Namekata K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):851–6 **(Jpn)**

[Hepatic artery aneurysm: treatment with left hepatectomy. Report of a case] Chaib E, et al. **Arq Gastroenterol** 1995 Jul–Sep;32(3):116–20 (Eng. Abstr.) **(Por)**

[Stimulation of regenerative processes and correction of the functional activity of the liver in its partial resection and toxic lesions] Abakumova OIu, et al. **Vestn Ross Akad Med Nauk** 1996;(5):36–41 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Cardiac complications after hepatic resection. Yanaga K, et al. **Br J Surg** 1996 Oct;83(10):1448–51

Neutrophil–mediated sinusoidal endothelial cell injury after extensive hepatectomy in cholestatic rats. Ohtsuka M, et al. **Hepatology** 1997 Mar;25(3):636–41

Acceleration of thrombosis and hemolysis by fibrinolysis inhibiting factor and suppression by Ia antigen expressed on T cells in partially hepatectomized Lewis rats. Nakatsuji T. **Int J Hematol** 1996 Oct;64(3–4):181–8

Latent development of cardiac tamponade heralded by a progressive fall in hepatic venous hemoglobin oxygen saturation [letter] Kainuma M, et al. **Intensive Care Med** 1996 Nov;22(11):1277

Tumorous necrotic nodule in the liver: unexpected effect of the microwave tissue coagulator. Mikami Y, et al. **J Clin Pathol** 1997 Aug;50(8):703–5

Experimental hepatectomy: the effect on the intestine and influence of various supplements [editorial; comment] Andersson R, et al. **Nutrition** 1997 May;13(5):473–4. Comment on: Nutrition 1997 May;13(5):431–7.

Changes in T–lymphocyte subpopulations and serum lymphokine concentrations after partial hepatectomy in rats. Lai HS, et al. **Nutrition** 1996 Oct;12(10):700–5

Contrasting effects of identical nutrients given parenterally or enterally after 70% hepatectomy: bacterial translocation [see comments] Qiu JG, et al. **Nutrition** 1997 May; 13(5):431–7. Comment in: Nutrition 1997 May;13(5):473–4.

A nonspecific colonic ulcer occurring after hepatectomy: report of a case. Ando Y, et al. **Surg Today** 1997;27(4):353–6

Progressive necrosis after hepatectomy and the pathophysiology of liver failure after massive resection. Panis Y, et al. **Surgery** 1997 Feb;121(2):142–9

Efficacy and safety of preoperative percutaneous transhepatic portal embolization with absolute ethanol: a clinical study. Shimamura T, et al. **Surgery** 1997 Feb;121(2):135–41

[Enhancement of tumor growth after partial hepatectomy and blood transfusion] Sun J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):113–5 (Eng. Abstr.) **(Chi)**

[An unusual cause of oxygen desaturation: isorhythmic atrioventricular dissociation] Mestre C, et al. **Ann Fr Anesth Reanim** 1996;15(5):673–6 (Eng. Abstr.) **(Fre)**

[The effect of epidural anesthesia with combined use of vasodilator on hemodynamics and stress hormone levels during hepatectomy] Arai M, et al. **Masui** 1997 Feb; 46(2):158–65 (Eng. Abstr.) **(Jpn)**

INSTRUMENTATION

Water jet scalpel for liver resection in hepatocellular carcinoma with or without cirrhosis. Une Y, et al. **Int Surg** 1996 Jan–Mar;81(1):45–8

Jet–cutting supported by high frequency current: new technique for hepatic surgery. Rau HG, et al. **World J Surg** 1997 Mar–Apr;21(3):254–9; discussion 259–60

[Intraoperative EEG monitoring in hemihepatectomies] Goldmann R, et al. **Anaesthesiol Reanim** 1996;21(4):88–90 (Eng. Abstr.) **(Ger)**

[Jet dissection of tissues in liver surgery] Bulynin VI, et al. **Khirurgiia (Mosk)** 1996;(2):108–9 (Eng. Abstr.) **(Rus)**

[The advantages of using the Aloka–200 D ultrasonic aspirator in liver resection] Dontsova LS, et al. **Klin Khir** 1996;(9):22–4 **(Rus)**

METHODS

Hepatic resection with vascular isolation and routine supraceliac aortic clamping [letter] Leow CK, et al. **Am J Surg** 1997 Feb;173(2):149

Direct hepatic vein anastomosis during hepatectomy for colorectal liver metastases. Nakamura S, et al. **Am J Surg** 1997 Sep;174(3):331–3

Vascular endostapler as aid to hepatic vein control during hepatic resections. Ramacciato G, et al. **Am J Surg** 1996 Oct;172(4):358–62

Surgical management of metastatic cancer in the liver. Sugarbaker PH. **Ann Ital Chir** 1996 Nov–Dec;67(6):773–82 (22 ref.)

Minimally invasive hepatic resection using laparoscopic surgery and minithoracotomy. Sato M, et al. **Arch Surg** 1997 Feb;132(2):206–8

The aetiology and management of hepatic metastases. Hugh TJ, et al. **Aust N Z J Surg** 1997 Jul;67(7):400–9 (90 ref.)

Complete resection of the caudate lobe of the liver: technique and results. Bartlett D, et al. **Br J Surg** 1996 Aug; 83(8):1076–81 (24 ref.)

Role of hepatic resection in surgery for bilateral intrahepatic stones. Chen MF, et al. **Br J Surg** 1997 Sep;84(9):1229–32

Technique of hepatectomy. Fan ST. **Br J Surg** 1996 Nov; 83(11):1490–1

Hepatectomy: the posterior intrahepatic approach. Launois B. **Br J Surg** 1997 Mar;84(3):291–2

Partial portal arterialization for dearterialized liver after hepatectomy. Ozeki Y, et al. **Br J Surg** 1997 Jul;84(7):1011

One hundred and fifty hepatic resections: evolution of technique towards bloodless surgery. Rees M, et al. **Br J Surg** 1996 Nov;83(11):1526–9

Angiogenesis inhibitor TNP–470 prevents implanted liver metastases after partial hepatectomy in an experimental model without impairing wound healing. Tanaka H, et al. **Br J Surg** 1996 Oct;83(10):1444–7

Atypical hemihepatectomy during primary CDH–repair in a neonate on ECMO. Till H, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):170–1

Solitary necrotic nodule of the liver: diagnosis and treatment. Alfieri S, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1210–1

Extended right trisegmentectomy for hilar bile duct carcinoma. Noie T, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):998–1001

Partial hepatectomy for metastatic seeding complicating pancreatoduodenectomy. Sano T, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):263–7

A refined method of trans–thoracoabdominal hepatectomy for cirrhotic patients with hepatocellular carcinoma. Shimada M, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):450–3

A giant hepatic hemangioma with secondary portal hypertension: a case report of successful surgical treatment. Takahashi T, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1212–4

Laparoscopic hepatic resection: a new and safe procedure by abdominal wall lifting method. Watanabe Y, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):143–7

Right hepatic lobectomy in elderly patients with hepatocellular carcinoma. Yamamoto K, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):514–8

Preoperative portal vein embolization for extension of hepatectomy indications. de Baere T, et al. **Hepatology** 1996 Dec;24(6):1386–91

Preoperative determination of the surgical procedure for hepatectomy using technetium–99m–galactosyl human serum albumin (99mTc–GSA) liver scintigraphy. Kwon AH, et al. **Hepatology** 1997 Feb;25(2):426–9

Resection margins for colorectal metastases to the liver: do they make a difference? Adams RB, et al. **HPB Surg** 1996; 9(2):115–7

Isolated resection of segment I (caudate lobe): is it justified? Blumgart LH. **HPB Surg** 1996;10(2):121–3

Liver resection: prolonged inflow occlusion in human cirrhotic livers. Jeppsson B. **HPB Surg** 1996;10(2):123–5

Hepatic cryotherapy for cancer: a review and critique. Morris DL. **HPB Surg** 1996;9(2):118–20 (23 ref.)

Surgicel reinforced resection lines in left–sided hepatectomy with linear stapling device. An experimental study on pigs. Zilling T, et al. **HPB Surg** 1996;9(2):97–9

Conservative hepatic resection for hepatocellular carcinoma of cirrhotic patients. Sheen PC, et al. **Int Surg** 1996 Jul–Sep; 81(3):280–3

Right side hepatic resection under right thoracoabdominal incision with special reference to a highly anatomical systematized method. Tsugita M, et al. **Int Surg** 1995 Jul–Sep;80(3):242–6

Useful stapling techniques in liver surgery. Fong Y, et al. **J Am Coll Surg** 1997 Jul;185(1):93–100

Major extended hepatic resections in diseased livers using hypothermic protection: preliminary results from the first 12 patients treated with this new technique. Hannoun L, et al. **J Am Coll Surg** 1996 Dec;183(6):597–605

Resection of the caudate lobe of the liver for primary and

recurrent hepatocellular carcinomas [see comments] **Nagasue N, et al. J Am Coll Surg** 1997 Jan;184(1):1–8. Comment in: J Am Coll Surg 1997 Jan;184(1):75–6.

Resection of the caudate lobe of the liver [editorial; comment] **Schwartz SI. J Am Coll Surg** 1997 Jan;184(1):75–6. Comment on: J Am Coll Surg 1997 Jan;184(1):1–8.

A new technique for assessing the resectability of hilar cholangiocarcinoma: lifting of the umbilical portion of the portal vein. **Shirai Y, et al. J Am Coll Surg** 1997 Jan; 184(1):80–3

Hepatic transplantation using living donors with aberrant hepatic artery. **Takayama T, et al. J Am Coll Surg** 1997 May;184(5):525–8

Topical cooling–assisted hepatic segmentectomy for cirrhotic liver with hepatocellular carcinoma. **Yamanaka N, et al. J Am Coll Surg** 1997 Mar;184(3):290–6

Variations of the middle and inferior right hepatic vein: application in hepatectomy. **Cheng YF, et al. J Clin Ultrasound** 1997 May;25(4):175–82

Leucine metabolism in partially hepatectomized rats. **Holeček M, et al. J Hepatol** 1997 May;26(5):1141–7

Stimulation of liver regeneration and function after partial hepatectomy in cirrhotic rats by continuous infusion of recombinant human hepatocyte growth factor. **Kaibori M, et al. J Hepatol** 1997 Aug;27(2):381–90

A facilitated technique for hepatectomy of porcine liver. **Mizrahi SS, et al. J Invest Surg** 1996 Sep–Oct;9(5):393–8

Anterior approach to dorsal short hepatic and right hepatic veins in a right hepatic lobectomy. **Shimahara Y, et al. Nippon Geka Hokan** 1996 Jan 1;65(1):13–21

Combined resections of the diaphragm and the liver for a locally advanced non–small–cell lung cancer. **Nishioka K, et al. Respiration** 1996;63(5):314–7

Hepatic inflammation following 70% hepatectomy may be related to up–regulation of epithelial neutrophil activating protein–78 [see comments] **Colletti LM, et al. Shock** 1996 Dec;6(6):397–402. Comment in: Shock 1996 Dec;6(6):403–4.

Invasive therapy of metastatic colorectal cancer to the liver. **Millikan KW, et al. Surg Clin North Am** 1997 Feb; 77(1):27–48 (84 ref.)

Intraoperative ultrasonography and other techniques for segmental resections. **Takayama T, et al. Surg Oncol Clin N Am** 1996 Apr;5(2):261–9 (16 ref.)

A new technique of one–stage total hepatectomy in the rat. **Azoulay D, et al. Surgery** 1997 Feb;121(2):219–22

Extended right posterior segmentectomy for metastatic liver tumors. **Kobayashi A, et al. Surgery** 1997 Jun; 121(6):698–703

A quick technique for en bloc liver and pancreas procurement [letter; comment] **Squifflet JP. Transpl Int** 1996;9(5):520–1. Comment on: Transpl Int 1995;8(4):280–5.

Sequential liver transplantation. **Furtado A, et al. Transplant Proc** 1997 Feb–Mar;29(1–2):467–8

Technical procedures and logistics of split–liver transplantation. **Karbe T, et al. Transplant Proc** 1996 Dec; 28(6):3345–6

Rapid en bloc technique for liver and pancreas procurement. **Pinna AD, et al. Transplant Proc** 1997 Feb–Mar; 29(1–2):647–8

Split liver transplantation: a way forward? **Rela M, et al. Transplant Proc** 1997 Feb–Mar;29(1–2):562–3

An easy and physiologic arterial reconstruction method (sleeve technique) for orthotopic rat liver transplantation. **Sato Y, et al. Transplant Proc** 1996 Dec;28(6):3649–51

In situ splitting of the cadaveric liver for transplantation. **Goss JA, et al. Transplantation** 1997 Sep 27;64(6):871–7

The management of hydatid disease of the liver: Part 1. **Fenton–Lee D, et al. Trop Doct** 1996 Oct;26(4):173–6 (20 ref.)

Successful resection of a giant hepatic haemangioma. **Verma GR, et al. Trop Gastroenterol** 1996 Oct–Dec;17(4):232–3

Hepatectomy: the opening of the main portal and umbilical fissures [letter; comment] **Couinaud C. World J Surg** 1997 Mar–Apr;21(3):343. Comment on: World J Surg 1996 Mar–Apr;20(3):314–7; discussion 318.

Transthoracic transdiaphragmatic approach for hepatectomy of Couinaud's segments VII and VIII. **Ko S, et al. World J Surg** 1997 Jan;21(1):86–90

Anterior approach for difficult major right hepatectomy [see comments] **Lai EC, et al. World J Surg** 1996 Mar–Apr; 20(3):314–7; discussion 318. Comment in: World J Surg 1997 Mar–Apr;21(3):343.

[Laparoscopic surgery of benign tumors of the liver. Apropos of 5 cases] **Laporte J, et al. J Chir (Paris)** 1996; 133(9–10):432–6 (15 ref.) (Eng. Abstr.) **(Fre)**

[The place of enucleation in the surgical management of hepatic hemangioma. Report of a case and review of the literature] **Sarkis R, et al. J Med Liban** 1995;43(4):227–9 (Eng. Abstr.) **(Fre)**

[Malignant tumors of the hepatic bifurcation—results of surgical therapy and prognostic factors] **Beckurts KT, et al. Chirurg** 1997 Apr;68(4):378–84 (37 ref.) (Eng. Abstr.) **(Ger)**

[Right hemihepatectomy using a frontal approach—alternative to the conventional procedure] **Hohenberger P. Chirurg** 1996 Sep;67(9):944–8 (Eng. Abstr.) **(Ger)**

[Technical aspects of segment I resection of the liver] **Ringe B, et al. Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:269–71 (Eng. Abstr.) **(Ger)**

[Surgical resection of colorectal liver metastases: Gold standard for solitary and radically resectable lesions] **Scheele J, et al. Swiss Surg** 1996;Suppl 4:4–17 (Eng. Abstr.) **(Ger)**

[Biliary fistula, following partial hepatectomy, treated by endoscopic papillotomy (atypical indication for endoscopic sphincterotomy)] **Seress Z, et al. Orv Hetil** 1996 Aug 25; 137(34):1871–3 (Eng. Abstr.) **(Hun)**

[Indications for hepatic resection: personal experience] **Poma A, et al. G Chir** 1997 Jun–Jul;18(6–7):331–5 (Eng. Abstr.) **(Ita)**

[Couinard's technics of liver resection] **Popescu I, et al. Chirurgia (Bucur)** 1996 Nov–Dec;45(6):305–10 (Eng. Abstr.) **(Rum)**

[Total vascular exclusion in liver surgery] **Popescu I, et al. Chirurgia (Bucur)** 1996 May–Jun;45(3):111–8 (Eng. Abstr.) **(Rum)**

[The glycogen–forming function of the hepatocytes during the regeneration of the cirrhotic rat liver after a partial hepatectomy] **Kudriavtseva MV, et al. Tsitologiia** 1996; 38(9):934–48 (Eng. Abstr.) **(Rus)**

[The technic of liver resection] **Bulynin VI, et al. Vestn Khir Im I I Grek** 1996;(1):86–8 (Eng. Abstr.) **(Rus)**

[The use of a loop of small intestine for the formation of a bile duct in a 7–month–old child in right–sided hemihepatectomy] **Simonov NN, et al. Vestn Khir Im I I Grek** 1997;156(1):108 **(Rus)**

MORTALITY

Evaluation of preoperative hepatic function in patients with hepatocellular carcinoma undergoing hepatectomy. **Lau H, et al. Br J Surg** 1997 Sep;84(9):1255–9

Long–term survival after hepatic cryosurgery versus surgical resection for metastatic colorectal carcinoma: a critical review of the literature. **Tandan VR, et al. Can J Surg** 1997 Jun;40(3):175–81 (23 ref.)

Repeat resection of recurrent hepatic metastases—improvement in prognosis? **Riesener KP, et al. Eur J Surg** 1996 Sep;162(9):709–15 (36 ref.)

Prior ligation of portal branches improves survival after a 90% portal hepatectomy in the rat. **Li B, et al. Eur Surg Res** 1997;29(4):273–9

Surgical treatment for hepatocellular carcinoma. **Imaoka S, et al. Gan To Kagaku Ryoho** 1997 May;24 Suppl 1:134–43

Liver and pancreatic resection in the elderly. **Garden OJ. HPB Surg** 1997;10(4):259–61

Preoperative risk assessment of hepatic resection for malignant disease. **Cohnert TU, et al. World J Surg** 1997 May;21(4):396–400; discussion 401

[Benefits and risk of resection of liver metastases in elderly patients] **Riesener KP, et al. Langenbecks Arch Chir Suppl Kongressbd** 1996;113:509–11 (Eng. Abstr.) **(Ger)**

[The limits of resection in hepatopancreatectomies in rats] **Kurauchi N. Hokkaido Igaku Zasshi** 1996 Nov; 71(6):699–710 (Eng. Abstr.) **(Jpn)**

NURSING

Simple nursing interventions facilitate managing hepatic surgery. **Loumeau H, et al. Oncol Nurs Forum** 1997 Jan–Feb;24(1):23

STATISTICS & NUMERICAL DATA

Major hepatic resection. Indications and results in a national hospital system from 1988 to 1992. **Nadig DE, et al. Arch Surg** 1997 Feb;132(2):115–9

HEPATIC AMEBIASIS see LIVER ABSCESS, AMEBIC

HEPATIC ARTERY

see related
LIVER CIRCULATION

Hepatic haemangioendothelioma presenting with early heart failure in a newborn: treatment with hepatic artery embolization and interferon. **Fok TF, et al. Acta Paediatr** 1996 Nov;85(11):1373–5

Nonsurgical management of patients with blunt hepatic injury: efficacy of transcatheter arterial embolization. **Hagiwara A, et al. AJR Am J Roentgenol** 1997 Oct; 169(4):1151–6

Hepatic artery pseudoaneurysm associated with amebic liver abscess presenting as upper GI hemorrhage. **Gopanpallikar A, et al. Am J Gastroenterol** 1997 Aug;92(8):1391–3

Infected false hepatic artery aneurysm after orthotopic liver transplantation treated by resection and reno–hepatic vein graft. **Fichelle JM, et al. Ann Vasc Surg** 1997 May; 11(3):300–3

Common splanchnic artery aneurysms: splenic, hepatic, and celiac. **Shanley CJ, et al. Ann Vasc Surg** 1996 May; 10(3):315–22 (124 ref.)

Hepatic artery aneurysm: two case reports and review of the literature. **Ibach EG, et al. Aust N Z J Surg** 1997 Feb–Mar;67(2–3):143–7

Hepatic arterial cannulation for regional chemotherapy is safe in patients with a liver metastasis volume of less than 1 litre. **Burke D, et al. Br J Cancer** 1997;75(8):1213–6

Multiple intraabdominal aneurysms—getting to the heart of the matter. **Davies RS, et al. Br J Radiol** 1997 Jun; 70(834):659–60

A case of obstructive jaundice. **Griffith JF, et al. Br J Radiol** 1997 Jan;70:107–8

Transcatheter arterial embolization of two symptomatic giant cavernous hemangiomas of the liver. **Althaus S, et al. Cardiovasc Intervent Radiol** 1996 Sep–Oct;19(5):364–7

Endovascular treatment with microcoils of traumatic haemobilia: case report. **Celdrán A, et al. Eur J Surg** 1995 Nov;161(11):857–8

Pseudoaneurysm of the cystic artery. **Maw A, et al. Eur J Surg** 1997 Apr;163(4):307–9

Arteritis following intra–arterial chemotherapy for liver tumors. **Belli L, et al. Eur Radiol** 1997;7(3):323–6

Transcatheter liver lobar ablation: an experimental trial in an animal model. **Kan Z, et al. Eur Radiol** 1997;7(7):1071–5

Arterioportal fistula and hemobilia with associated acute cholecystitis: a complication of percutaneous liver biopsy. **Cacho G, et al. Hepatogastroenterology** 1996 Jul–Aug; 43(10):1020–3

Hepatic artery–biliary fistula during infusion chemotherapy. **Noda M, et al. Hepatogastroenterology** 1996 Sep–Oct; 43(11):1387–9

Hepatic artery pseudoaneurysm following laparoscopic cholecystectomy: transcatheter intraarterial embolization. **Siablis D, et al. Hepatogastroenterology** 1996 Sep–Oct; 43(11):1343–6

Inferior pancreaticoduodenal artery aneurysm associated with common hepatic artery occlusion. **Bracale G, et al. J Cardiovasc Surg (Torino)** 1996 Dec;37(6):579–81

Treatment of ocular melanoma metastatic to the liver by hepatic arterial chemotherapy. **Leyvraz S, et al. J Clin Oncol** 1997 Jul;15(7):2589–95

Case report: right–sided periadrenal metastasis supplied by the hepatic artery. Clue to the genesis of pedunculated hepatocellular carcinoma. **Iwamoto S, et al. J Gastroenterol Hepatol** 1997 May;12(5):392–7

Hepatic artery aneurysm in a 10–year–old boy as a complication of infective endocarditis. **Senocak F, et al. J Pediatr Surg** 1996 Nov;31(11):1570–2

Successful resection of a massive hepatic artery aneurysm. **Andrew DR, et al. J R Army Med Corps** 1994 Oct; 140(3):138–40

Intrahepatic arterioportal fistula after hepatic gunshot wound: a case report and review of the literature. **Eastridge BJ, et al. J Trauma** 1997 Sep;43(3):523–6 (29 ref.)

Obstructive jaundice in patients receiving hepatic artery infusional chemotherapy: etiology, treatment implications, and complications after transhepatic biliary drainage. **Brown KT, et al. J Vasc Interv Radiol** 1997 Mar–Apr; 8(2):229–34

Visceral artery aneurysms in Von Recklinghausen's neurofibromatosis. **Hassen–Khodja R, et al. J Vasc Surg** 1997 Mar;25(3):572–5

Transaxillary access to perform hepatic artery infusion (HAI) for secondary or primitive hepatic tumors. **Zanon C, et al. Minerva Chir** 1996 Sep;51(9):755–8

Update on hepatic intra–arterial chemotherapy. **Venook AP. Oncology (Huntingt)** 1997 Jul;11(7):947–57; discussion 961–2, 964, 970 (51 ref.)

Rupture of a hepatic artery aneurysm caused by Wegener's granulomatosis. **den Bakker MA, et al. Pathol Res Pract** 1997;193(1):61–6

An unusual cause of haemobilia: biliary ascariasis. **Corr P, et al. Pediatr Radiol** 1997 Apr;27(4):348–9

Metallic stenting of the biliary tree following liver transplant hepatic artery thrombosis in an infant. **Khong PL, et al. Pediatr Radiol** 1997 Jan;27(1):79–81

CT findings in ischaemic hepatic failure due to intra–arterial embolisation: a case report. **Catalano O. Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):81–3 (18 ref.)

Visceral artery aneurysms. **Messina LM, et al. Surg Clin North Am** 1997 Apr;77(2):425–42 (40 ref.)

False aneurysm of a hepatic artery branch and a recurrent subphrenic abscess: two unusual complications after laparoscopic cholecystectomy. **Porte RJ, et al. Surg Endosc** 1996 Feb;10(2):161–3

Hepatic artery thrombosis as a complication of amputation neuroma of the liver graft hilum [letter] **Gonzalez–Pinto I, et al. Transpl Int** 1997;10(5):405–6

Graft saving management of hepatic artery thrombosis in pediatric liver transplantation. **Massault PP, et al. Transplant Proc** 1997 Feb–Mar;29(1–2):439

Hepatic artery stenosis after liver transplantation—incidence, presentation, treatment, and long term outcome. **Abbasoglu O, et al. Transplantation** 1997 Jan 27;63(2):250–5

Urgent revascularization of liver allografts after early hepatic artery thrombosis. **Pinna AD, et al. Transplantation** 1996 Dec 15;62(11):1584–7

[Emergency treatment of hemobilia using embolization] **Abada HT, et al. J Belge Radiol** 1996 Nov;79(5):221–3 (Eng. Abstr.) **(Fre)**

[Peripheral aneurysm of the hepatic artery as the etiology of acute upper gastrointestinal hemorrhage] **Hanke S, et al. Chirurg** 1997 May;68(5):536–9 (Eng. Abstr.) **(Ger)**

[Arterioportal fistulas in the extra–hepatic circulation of the common hepatic artery. Diagnosis and radiologic interventional therapy] **Klinkner J, et al. Radiologe** 1996 Jul;36(7):586–90 (Eng. Abstr.) **(Ger)**

[Pseudoaneurysm of the right hepatic artery with an arterio–biliary fistula] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):586–7 **(Ger)**

[Effectiveness of selective hepatic artery embolization in a

child after blunt hepatic trauma] Sweed Y, et al. **Harefuah** 1997 Feb 16;132(4):252–4, 312, 311 (Eng. Abstr.) **(Heb)**

[Aneurysm of the hepatic artery. Case report and review of the literature] Oddi A, et al. **G Chir** 1997 May; 18(5):277–82 (Eng. Abstr.) **(Ita)**

[Embolization of the hepatic artery in the treatment of liver cirrhosis complicated by resistant ascites] Bulanov KI, et al. **Klin Khir** 1996;(9):19–22 **(Rus)**

[Role of transcatheter embolization in intrahepatic arterioportal fistulas] Granov AM, et al. **Vestn Rentgenol Radiol** 1996 Nov–Dec;(6):23–6 (Eng. Abstr.) **(Rus)**

[Aneurysm of the left hepatic artery—a rare cause of hemobilia after laparoscopic cholecystectomy: case report] Mráz P Jr, et al. **Rozhl Chir** 1996 Oct;75(10):496–8 (Eng. Abstr.) **(Slo)**

[Aneurysm of the hepatic artery and echography (letter)] Arzua E, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):572–3 **(Spa)**

ABNORMALITIES

Duplicated hepatic artery: radiologic and surgical implications. Fasel JH, et al. **Acta Anat (Basel)** 1996; 157(2):164–8

Laparoscopic fundoplication and the aberrant left hepatic artery. Edoga JK, et al. **Arch Surg** 1997 Apr;132(4):448–9

Transcatheter embolization of a congenital intrahepatic arterioportal venous malformation: a case report. Sing TM, et al. **Australas Radiol** 1997 Aug;41(3):292–6

The arterioportal fistula syndrome: clinicopathologic features, diagnosis, and therapy. Vauthey JN, et al. **Gastroenterology** 1997 Oct;113(4):1390–401

Hepatic arterioportal fistula: a curable cause of portal hypertension in infancy. Billing JS, et al. **HPB Surg** 1997; 10(5):311–4

Hepatic transplantation using living donors with aberrant hepatic artery. Takayama T, et al. **J Am Coll Surg** 1997 May;184(5):525–8

Suspected microscopic hepatic arteriovenous fistulae in a young dog. Schermerhorn T, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):70–4

[Treatment of intrahepatic arteriovenous fistula after biopsy. Results in 5 chemoembolization candidates with hepatocarcinoma] Maspes F, et al. **Radiol Med (Torino)** 1997 Apr;93(4):418–24 (Eng. Abstr.) **(Ita)**

ANATOMY & HISTOLOGY

Hepatic falciform artery. Jaques PF, et al. **Cardiovasc Intervent Radiol** 1997 May–Jun;20(3):211–2

DRUG EFFECTS

Impaired endothelium-dependent relaxation of human hepatic arteries after preservation with the University of Wisconsin solution. Jeng LB, et al. **Arch Surg** 1997 Jan; 132(1):7–12

Effect of cold storage in University of Wisconsin solution on the responses of porcine hepatic arteries to 5-hydroxytryptamine and bradykinin in vitro. Flanders S, et al. **Br J Pharmacol** 1996 Jan;117(1):142–6

Involvement of voltage-dependent potassium channels in the EDHF-mediated relaxation of rat hepatic artery. Zygmunt PM, et al. **Br J Pharmacol** 1997 May;121(1):141–9

INJURIES

Pseudoaneurysm formation after catheter dissection of the common hepatic artery: report of two cases. Ahn J, et al. **Am J Gastroenterol** 1997 Apr;92(4):696–9 (23 ref.)

Management of hepatic artery injury: case report. Graham DD, et al. **Am Surg** 1997 Apr;63(4):327–9

Hemobilia: a rare complication following cholecystectomy. Jafarey AM, et al. **Endoscopy** 1997 Jan;29(1):53–4

Hepatic artery pseudoaneurysm and hemobilia following laparoscopic cholecystectomy. Kapoor R, et al. **Indian J Gastroenterol** 1997 Jan;16(1):32–3

Splanchnic artery pseudo-aneurysms secondary to blunt abdominal trauma in children. Gow KW, et al. **J Pediatr Surg** 1996 Jun;31(6):812–5

Transjugular intrahepatic portosystemic shunt-related arterial injuries: prospective comparison of large- and small-gauge needle systems. Haskal ZJ, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):911–5

Hepatic infarction: unusual complication of a transjugular intrahepatic portosystemic shunt. Sawhney R, et al. **J Vasc Interv Radiol** 1997 Jan–Feb;8(1 Pt 1):129–32

False aneurysm of a hepatic artery branch [letter] Halpern NB. **Surg Endosc** 1997 Apr;11(4):402–3

METABOLISM

Intra-hepatic arterial drug delivery. Blesing CH, et al. **J Drug Target** 1996;3(5):341–7 (63 ref.)

PATHOLOGY

Right hepatic artery pseudoaneurysm after laparoscopic cholecystectomy. Ibrarullah M, et al. **Am J Gastroenterol** 1997 Mar;92(3):528–9

Dependency of tissue necrosis on gelatin sponge particle size after canine hepatic artery embolization. Sonomura T, et al. **Cardiovasc Intervent Radiol** 1997 Jan–Feb;20(1):50–3

Assessment of right hepatic artery involvement in patients with biliary tract cancer using color Doppler ultrasonography. Tomiyama T, et al. **J Clin Ultrasound** 1997 Jul–Aug;25(6):317–23

Histopathologic appearance of arterial occlusions with hydrogel and polyvinyl alcohol embolic material in domestic swine. Link DP, et al. **J Vasc Interv Radiol** 1996 Nov–Dec;7(6):897–905

Hepatic arterial-phase dynamic gadolinium-enhanced MR imaging: optimization with a test examination and a power injector. Earls JP, et al. **Radiology** 1997 Jan;202(1):268–73

Management of hepatic artery complications after orthotopic liver transplantation. Cretin N, et al. **Transplant Proc** 1997 Aug;29(5):2414–5

PHYSIOLOGY

Intrahepatic blood flow distribution in the perfused rat liver: effect of hepatic artery perfusion. Burczynski FJ, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):G561–7

The 1995 Ciba-Geigy Award Lecture. Intrinsic regulation of hepatic blood flow. Lautt WW. **Can J Physiol Pharmacol** 1996 Mar;74(3):223–33

The effect of meal intake on hepatic feeding vessels-color Doppler ultrasonographic assessment in normal Chinese adults. Lin DY. **Chang Keng I Hsueh** 1996 Mar;19(1):30–5

The action of ATP on the hepatic arterial and portal venous vascular networks of the rabbit liver: the role of adenosine. Browse DJ, et al. **Eur J Pharmacol** 1997 Feb 12; 320(2–3):139–44

A new method to measure portal venous and hepatic arterial blood flow in patients intraoperatively. Jakab F, et al. **HPB Surg** 1996;9(4):239–43

Hepatic denervation induces supersensitivity to terbutaline of the hepatic arterial system in conscious dogs. Akiyama H, et al. **J Surg Res** 1997 Feb 15;68(1):67–72

beta1-Adrenoceptor-mediated relaxation by norepinephrine in dog hepatic arteries. Shiraishi S, et al. **Jpn J Pharmacol** 1997 Jan;73(1):101–3

Intraportal infusion of prostaglandin E1 improves graft viability after orthotopic liver transplantation in pigs. Kawachi S, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):374–5

[Blood pressure of the hepatic artery in measured bleeding and its association with occlusion in experimental animals] Uzhva VP. **Klin Khir** 1996;(8):32–3 **(Rus)**

PHYSIOPATHOLOGY

Impaired endothelium-dependent relaxation of human hepatic arteries after preservation with the University of Wisconsin solution. Jeng LB, et al. **Arch Surg** 1997 Jan; 132(1):7–12

Changes in hepatic portal resistance and in liver morphology during regeneration: in vitro study in rats. Gertsch P, et al. **Eur J Surg** 1997 Apr;163(4):297–304

Change in hepatic arterial hemodynamics induced by hepatocellular carcinoma detected with Doppler sonography. Someda H, et al. **J Clin Ultrasound** 1997 Sep; 25(7):359–65

Management of hepatic artery complications after orthotopic liver transplantation. Cretin N, et al. **Transplant Proc** 1997 Aug;29(5):2414–5

Intra- and extrahepatic arterial resistances in chronic hepatitis and liver cirrhosis. Piscaglia F, et al. **Ultrasound Med Biol** 1997;23(5):675–82

RADIOGRAPHY

Demonstration of false-negative findings on CT hepatic angiography. Kanematsu M, et al. **Abdom Imaging** 1997 Jan–Feb;22(1):52–4

Preoperative assessment of the portal vein and hepatic artery in children with end-stage liver disease: is selective angiography still necessary? Kok T, et al. **Abdom Imaging** 1996 Nov–Dec;21(6):495–500

Technical report: coaxial catheter: a new technique for sequential spiral CT during arterial portography and hepatic arteriography. Abe O, et al. **Clin Radiol** 1997 May; 52(5):388–91

Hepatic artery aneurysms: evaluation using three-dimensional spiral CT angiography. Howling SJ, et al. **Clin Radiol** 1997 Mar;52(3):227–30

Arteriovenous shunting in hepatocellular carcinoma: its prevalence and clinical significance. Ngan H, et al. **Clin Radiol** 1997 Jan;52(1):36–40

Helical CT for detecting focal liver lesions in patients with breast carcinoma: comparison of noncontrast phase, hepatic arterial phase, and portal venous phase. Frederick MG, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):229–35

Transient subsegmental hepatic parenchymal enhancement on dynamic CT: a sign of postbiopsy arterioportal shunt. Lee SJ, et al. **J Comput Assist Tomogr** 1997 May–Jun; 21(3):355–60

Identification of the aberrant hepatic artery with axial spiral CT. Chambers TP, et al. **J Vasc Interv Radiol** 1995 Nov–Dec;6(6):959–64

Ultrasonography and angiographic examination of normal canine liver vessels. Mwanza T, et al. **Jpn J Vet Res** 1996 Dec;44(3):179–88

Posterior aspect of hepatic segment IV: patterns of portal venule branching at helical CT during arterial portography. Matsui O, et al. **Radiology** 1997 Oct;205(1):159–62

[Recurrent hematemesis and hemobilia in ruptured hepatic artery aneurysm—differential diagnostic aspects of acute, upper gastrointestinal hemorrhage] Baartz T, et al. **Leber Magen Darm** 1996 Jan;26(1):42–6 (Eng. Abstr.) **(Ger)**

[Combined imaging of hepatic artery aneurysm: report of 2 cases] Garribba AP, et al. **Radiol Med (Torino)** 1996 Oct; 92(4):486–9 **(Ita)**

[Enhancement pattern of hepatic metastases from colorectal cancer on CT arteriography] Inaba Y, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jul;57(8):483–6 (Eng. Abstr.) **(Jpn)**

[Double lumen—coaxial catheter system for combined CT during arterial portography and CT hepatic angiography] Inoue E, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1996 Jan;56(1):60–2 (Eng. Abstr.) **(Jpn)**

[Trial of a detachable Y-shaped tube with two valves for serial examinations of CT arterial portography and CT hepatic arteriography] Murakami T, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jun;57(7):430–2 (Eng. Abstr.) **(Jpn)**

SECRETION

Bile secretory function of the arterialized versus nonarterialized rat liver allograft. Chan FK, et al. **Transplantation** 1996 Dec 15;62(11):1657–63

SURGERY

The impact of microsurgical hepatic arterial reconstruction on the outcome of liver transplantation for congenital biliary atresia. Shackleton CR, et al. **Am J Surg** 1997 May; 173(5):431–5

Use of the splenic and hepatic artery for renal revascularization in patients with atherosclerotic renal artery disease. Geroulakos G, et al. **Ann Vasc Surg** 1997 Jan;11(1):85–9

Long-term consequence of rat orthotopic liver transplantation with and without hepatic arterial reconstruction: a clinical, pathological, and hemodynamic study. Imamura H, et al. **Hepatology** 1997 Jul;26(1):198–205

Hepato-venous outflow complications following orthotopic liver transplantation with various techniques for hepato-venous reconstruction in adults and children. Hesse UJ, et al. **Transpl Int** 1996;9 Suppl 1:S182–4

An easy and physiologic arterial reconstruction method (sleeve technique) for orthotopic rat liver transplantation. Sato Y, et al. **Transplant Proc** 1996 Dec;28(6):3649–51

Lower extremity paralysis after use of the supraceliac aorta for hepatic arterial reconstruction of the transplanted liver. Goss JA, et al. **Transplantation** 1997 Jan 15;63(1):163–4

Failure patterns of cryopreserved vein grafts in liver transplantation. Kuang AA, et al. **Transplantation** 1996 Sep 27;62(6):742–7 (21 ref.)

Delayed correction of portal hypertension after portal vein conduit arterialization in liver transplantation. Neelamekam TK, et al. **Transplantation** 1997 Apr 15;63(7):1029–30

[Hepatic artery aneurysm: treatment with left hepatectomy. Report of a case] Chaib E, et al. **Arq Gastroenterol** 1995 Jul–Sep;32(3):116–20 (Eng. Abstr.) **(Por)**

TRANSPLANTATION

The influence of resuscitation on hemodynamics and oxygen radical-induced reperfusion injury after arterialized liver transplantation in the rat. Walcher F, et al. **J Surg Res** 1996 Sep;65(1):9–14

ULTRASONOGRAPHY

Use of Doppler sonography for revealing hepatic artery stenosis in liver transplant recipients. Platt JF, et al. **AJR Am J Roentgenol** 1997 Feb;168(2):473–6

Value of Doppler ultrasound parameters of portal vein and hepatic artery in the diagnosis of cirrhosis and portal hypertension. Iwao T, et al. **Am J Gastroenterol** 1997 Jun; 92(6):1012–7

Hepatic artery thrombosis and infarction: evolution of the ultrasound appearances in liver transplant recipients. Cook GJ, et al. **Br J Radiol** 1997 Mar;70:248–51

Assessment of the course and variations of the hepatic artery in bile duct cancer by intraductal ultrasonography. Tamada K, et al. **Gastrointest Endosc** 1996 Sep;44(3):249–56

Pseudoaneurysm of the cystic artery associated with upper gastrointestinal bleeding. Nakajima M, et al. **J Gastroenterol** 1996 Oct;31(5):750–4 (16 ref.)

Ultrasonography and angiographic examination of normal canine liver vessels. Mwanza T, et al. **Jpn J Vet Res** 1996 Dec;44(3):179–88

[Contrast agent enhanced duplex ultrasonography: visualization of the hepatic artery after orthotopic liver transplantation] Gutberlet M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 May;166(5):411–6 (Eng. Abstr.) **(Ger)**

[Pseudoaneurysm of the pancreas] Dąbrowski A, et al. **Wiad Lek** 1996;49(1–6):51–3 (Eng. Abstr.) **(Pol)**

HEPATIC CIRRHOSIS see **LIVER CIRRHOSIS**

HEPATIC COMA see **HEPATIC ENCEPHALOPATHY**

HEPATIC DUCT, COMMON

Leptomeningeal carcinomatosis: a sequela of

cholangiocarcinoma. Huffman JL, et al. **Am Surg** 1997 Apr; 63(4):310–3

Resolution of Mirizzi's syndrome using endoscopic therapy. Baron TH, et al. **Gastrointest Endosc** 1996 Sep;44(3):343–5

Outcome of mechanical lithotripsy of bile duct stones in an unselected series of 704 patients. Hintze RE, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):473–6

Metallic stenting of the biliary tree following liver transplant hepatic artery thrombosis in an infant. Khong PL, et al. **Pediatr Radiol** 1997 Jan;27(1):79–81

Primary extranodal non–Hodgkin lymphoma of the extrahepatic bile duct mimmicking Klatskin tumor. André SB, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):192–4

Mirizzi syndrome caused by xanthogranulomatous cholecystitis: report of a case. Lee KC, et al. **Surg Today** 1997;27(8):757–61

Plexiform neurofibroma: a rare cause of obstructive jaundice. Mitchell DI, et al. **West Indian Med J** 1995 Dec;44(4):146–7

[The penetration of a bile duct metal stent into the duodenal bulb as a late complication of combined stent/radiotherapy in Klatskin's tumor] Wingen M, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):75–7 (10 ref.) **(Ger)**

[Mirizzi's syndrome as the cause of intrahepatic lithiasis. A clinical case] Astuni M, et al. **Minerva Chir** 1997 May; 52(5):639–42 (20 ref.) (Eng. Abstr.) **(Ita)**

[Clinical aspects, diagnosis and treatment of scar strictures of bile ducts] Shalimov AA, et al. **Klin Khir** 1996;(4):3–5 **(Rus)**

ABNORMALITIES

A rare anomaly of the biliary tree: the interhepatic duct. Häfner M, et al. **Gastrointest Endosc** 1997 Jun;45(6):523–5

Disorders in foregut diverticulization: congenital hepaticoesophageal fistula in a baby with laryngotracheoesophageal cleft. Webber EM, et al. **J Pediatr Surg** 1997 Apr;32(4):609–11

Junction of the cystic duct with the left hepatic duct: report of a case discovered during laparoscopic cholecystectomy. Fujita N, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):445–7 (9 ref.)

Hepaticocystic duct—a case report. Losanoff JE, et al. **Surg Radiol Anat** 1996;18(4):339–41

ANATOMY & HISTOLOGY

The normal retrograde cholangiogram: a definition of normal caliber. Low VH. **Abdom Imaging** 1997 Sep–Oct; 22(5):509–12

Anatomic variation of extrahepatic biliary tree structures: importance in treatment planning for radiation therapy. Smith RG, et al. **Radiology** 1996 Oct;201(1):271–3

INJURIES

Use of expandable metal stents for benign biliary strictures: need for balanced multidisciplinary approach. Rossi RL, et al. **Gastrointest Endosc** 1996 Jan;43(1):73–5 (20 ref.)

Diagnosis of right hepatic duct injury after cholecystectomy: the use of cholangiography through percutaneous drainage catheters. Schipper IB, et al. **Gastrointest Endosc** 1996 Sep; 44(3):350–4

Complete transection of the left hepatic duct due to blunt abdominal trauma. Miyakawa S, et al. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1395–8

A different method of hepaticojejunostomy for proximal biliary injuries. Radford DM, et al. **HPB Surg** 1996; 10(2):111–2

A simple stenting method for management of hepatic ductal injury secondary to blunt abdominal trauma: two case reports. Sakamoto Y, et al. **J Trauma** 1997 Jun;42(6):1165–8

[Studies of aetiology and management about iatrogenic injuries of bile duct] Fu Y, et al. **Chung Hua Wai Ko Tsa Chih** 1996 Jan;34(1):33–5 (Eng. Abstr.) **(Chi)**

[Surgical treatment for iatrogenic damage at the confluence of hepatic duct] Peng S, et al. **Chung Hua Wai Ko Tsa Chih** 1995 Nov;33(11):650–1 (Eng. Abstr.) **(Chi)**

[Injury of the extrahepatic bile ducts in multiple injuries] Michek J, et al. **Rozhl Chir** 1997 Feb;76(2):53–5 (Eng. Abstr.) **(Cze)**

PATHOLOGY

Biliary tract obstruction due to sarcoidosis: a case report. Rezeig MA, et al. **Am J Gastroenterol** 1997 Mar;92(3):527–8

Misplacement of endoscopic biliary endoprostheses. Nicholson AA, et al. **Endoscopy** 1997 Feb;29(2):125–7

Characterization of ductular hepatocytes in primary liver allograft failure. Fiel MI, et al. **Mod Pathol** 1997 Apr; 10(4):348–53

[Pathologic liver findings? Hilar cholangiocarcinoma (Klatskin tumor) with central calcinosis] Reuther G, et al. **Radiologe** 1997 Mar;37(3):255–7 **(Ger)**

[Cystic dilatation of the choledochus associated with stenosis of the hepatic duct bifurcation. An analysis of a clinical case] Arnone GB, et al. **Minerva Chir** 1997 Apr; 52(4):449–53 (20 ref.) (Eng. Abstr.) **(Ita)**

[Mirizzi's syndrome] Siragusa G, et al. **Minerva Chir** 1997 Jan–Feb;52(1-2):97–102 (22 ref.) (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

The query corner. Narrowing of the common hepatic duct found on ERCP. Mahan S, et al. **Abdom Imaging** 1997 Sep–Oct;22(5):538–40

SURGERY

Progress of surgical treatment of intrahepatic lithiasis in China. Huang Z. **Chin Med J (Engl)** 1996 Jul;109(7):506–9 (20 ref.)

Third segment cholangio–jejunostomy in the treatment of unresectable klatskin tumors. Taschieri AM, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):597–600

Type IVA choledochal cyst: is hepatic resection necessary? Strong R. **HPB Surg** 1996;10(1):61–3

Intrahepatic biliary–enteric bypass for complete extrahepatic biliary obstruction in children. Blanchard H, et al. **J Pediatr Surg** 1997 Jun;32(6):902–4

Hepaticoenterostomy after excision of choledochal cyst in children: a 30–year experience with 180 cases. Miyano T, et al. **J Pediatr Surg** 1996 Oct;31(10):1417–21

Comparison of hepaticoantrostomy and hepaticojejunostomy for biliary reconstruction after resection of a choledochal cyst. Schimpl G, et al. **Pediatr Surg Int** 1997 Apr; 12(4):271–5

[Malignant tumors of the hepatic bifurcation—results of surgical therapy and prognostic factors] Beckurts KT, et al. **Chirurg** 1997 Apr;68(4):378–84 (37 ref.) (Eng. Abstr.) **(Ger)**

[Experiences with liver transplantation and liver transplantation combined with Whipple's operation in Klatskin tumor] Anthuber M, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:413–5 (Eng. Abstr.) **(Ger)**

[Surgical prosthesis in Klatskin's tumor: the indications and results] Ticmeanu F. **Chirurgia (Bucur)** 1996 May–Jun; 45(3):119–24 (Eng. Abstr.) **(Rum)**

[The use of a loop of small intestine for the formation of a bile duct in a 7–month–old child in right–sided hemihepatectomy] Simonov NN, et al. **Vestn Khir Im I I Grek** 1997;156(1):108 **(Rus)**

ULTRASONOGRAPHY

Cholangiocarcinoma at the hepatic hilus: sonographic findings. Hann LE, et al. **AJR Am J Roentgenol** 1997 Apr; 168(4):985–9

HEPATIC ENCEPHALOPATHY

Hepatic encephalopathy. Mullen KD, et al. **Gastroenterologist** 1996 Sep;4(3):188–202 (185 ref.)

Neuroactive amino acids and glutamate (NMDA) receptors in frontal cortex of rats with experimental acute liver failure. Michalak A, et al. **Hepatology** 1996 Oct; 24(4):908–13

Portosystemic encephalopathy [letter; comment] Ohwada S, et al. **J Gastroenterol Hepatol** 1997 May;12(5):417–8. Comment on: J Gastroenterol Hepatol 1996 Jul;11(7):626–9.

Fulminant hepatic failure [see comments] Mas A, et al. **Lancet** 1997 Apr 12;349(9058):1081–5 (35 ref.). Comment in: Lancet 1997 Jul 26;350(9073):289–90.

The neurobiology of hepatic encephalopathy. Butterworth RF. **Semin Liver Dis** 1996 Aug;16(3):235–44 (105 ref.)

Animal models of hepatic encephalopathy. Chamuleau RA. **Semin Liver Dis** 1996 Aug;16(3):265–70 (92 ref.)

Brain edema and hepatic encephalopathy. Cordoba J, et al. **Semin Liver Dis** 1996 Aug;16(3):271–80 (94 ref.)

Natural benzodiazepines and hepatic encephalopathy. Mullen KD, et al. **Semin Liver Dis** 1996 Aug;16(3):255–64 (82 ref.)

Astrocytic–ammonia interactions in hepatic encephalopathy. Norenberg MD. **Semin Liver Dis** 1996 Aug;16(3):245–53 (165 ref.)

Subclinical hepatic encephalopathy. Quero JC, et al. **Semin Liver Dis** 1996 Aug;16(3):321–8 (51 ref.)

[Acute fulminant hepatitis] Zamir D, et al. **Harefuah** 1997 Jan 1;132(1):34–9 (46 ref.) **(Heb)**

[Subclinical hepatic encephalopathy] Jović JZ, et al. **Vojnosanit Pregl** 1997 May–Jun;54(3):257–64 (46 ref.) **(Scr)**

[Advances in the physiology and management of hepatic encephalopathy (editorial)] Tagle M. **Rev Gastroenterol Peru** 1996 May–Aug;16(2):97–8 **(Spa)**

BLOOD

Reduced serum Gc–globulin concentrations in patients with fulminant hepatic failure: association with multiple organ failure. Schiødt FV, et al. **Crit Care Med** 1997 Aug; 25(8):1366–70

Fulminant hepatic failure in rats: survival and effect on blood chemistry and liver regeneration. Eguchi S, et al. **Hepatology** 1996 Dec;24(6):1452–9

Blood glucose monitoring can predict outcome in fulminant hepatic failure [letter] Karande S, et al. **Indian J Gastroenterol** 1997 Apr;16(2):76

Mechanisms of resistance to injury in pig livers perfused with blood from patients in liver failure. Tector AJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1-2):966–9

CHEMICALLY INDUCED

Neurologic complications following intranasal administration of heroin in an adolescent. Zuckerman GB, et al. **Ann Pharmacother** 1996 Jul–Aug;30(7–8):778–81

Methylene blue and the neurotoxic mechanisms of ifosfamide encephalopathy. Küpfer A, et al. **Eur J Clin Pharmacol** 1996;50(4):249–52

Ammonium acetate challenge in experimental chronic hepatic encephalopathy induces a transient increase of brain 5–HT release in vivo. Bergqvist PB, et al. **Eur Neuropsychopharmacol** 1996 Nov;6(4):317–22

Fatal acute fulminant liver failure due to clozapine: a case report and review of clozapine–induced hepatotoxicity. Macfarlane B, et al. **Gastroenterology** 1997 May; 112(5):1707–9

Role of sinusoidal endothelial cells of the liver in concanavalin A–induced hepatic injury in mice. Knolle PA, et al. **Hepatology** 1996 Oct;24(4):824–9

Yellow phosphorus poisoning – an unusual presentation. Elizabeth J, et al. **J Assoc Physicians India** 1995 May; 43(5):371–2

Fatal hepatic coma attributed to paclitaxel [letter] Feenstra J, et al. **J Natl Cancer Inst** 1997 Apr 16;89(8):582–4

Flumazenil does not affect the increase in rat hippocampal extracellular glutamate concentration produced during thioacetamide–induced hepatic encephalopathy. McArdle P, et al. **Metab Brain Dis** 1996 Dec;11(4):329–342

Treatment of acetaminophen–induced fulminant hepatic failure with a bioartificial liver. Watanabe FD, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):487–8

Hepatic encephalopathy in liver transplant recipients precipitated by benzodiazepines present in transfused blood. Zeneroli ML, et al. **Transplantation** 1996 Sep 27;62(6):764–7

Fulminant hepatic failure associated with bicalutamide. Dawson LA, et al. **Urology** 1997 Feb;49(2):283–4

[Fatal sub–fulminant hepatitis caused by cyproterone acetate. A new case (letter)] Castellani P, et al. **Gastroenterol Clin Biol** 1996;20(10):915–6 **(Fre)**

[Fatal fulminating hepatitis caused by nilutamide. A new case (letter)] Marty F, et al. **Gastroenterol Clin Biol** 1996; 20(8–9):710–1 **(Fre)**

[Hepatic encephalopathy after injection of lanreotide, a somatostatin analog] Robin E, et al. **Gastroenterol Clin Biol** 1996;20(11):1014–6 (Eng. Abstr.) **(Fre)**

[Hepatic encephalopathy induced by flutamide administered for the treatment of prostatic cancer] Patel H, et al. **J Urol (Paris)** 1996;102(3):123–5 (12 ref.) (Eng. Abstr.) **(Fre)**

[Fulminant hepatitis during the therapy for tuberculous meningitis] Garavelli PL. **Recenti Prog Med** 1996 Dec; 87(12):597 (8 ref.) **(Ita)**

[Fulminant liver failure with a fatal outcome due to flutamide (letter)] Fernández Peña CM, et al. **Med Clin (Barc)** 1997 Feb 15;108(6):237–8 (8 ref.) **(Spa)**

[Hepatic encephalopathy related to omeprazole (letter)] del Rio Fernández M, et al. **Rev Esp Enferm Dig** 1997 Jul; 89(7):574–5 **(Spa)**

COMPLICATIONS

Pseudocervical cord syndrome: a deceptive flumazenil reversible manifestation of hepatic encephalopathy [letter] McDonald JW, et al. **Arch Neurol** 1996 Oct;53(10):956

Reduced serum Gc–globulin concentrations in patients with fulminant hepatic failure: association with multiple organ failure. Schiødt FV, et al. **Crit Care Med** 1997 Aug; 25(8):1366–70

Focal hepatic encephalopathy with status epilepticus: incomplete recovery after hepatic transplantation. Annoni JM, et al. **Dig Dis Sci** 1997 Apr;42(4):792–5

Unusual thoracic collaterals of gastro–oesophageal varices in a patient with end–stage liver disease. Waldenberger P, et al. **Ital J Gastroenterol** 1996 Jan;28(1):25–7

Fulminant hepatitis caused by hepatitis C virus during treatment for multiple sclerosis. Funaoka M, et al. **J Gastroenterol** 1996 Feb;31(1):119–22

Dissociated cerebral vasoparalysis in acute liver failure. A hypothesis of gradual cerebral hyperaemia. Larsen FS, et al. **J Hepatol** 1996 Aug;25(2):145–51

Pathogenesis of brain edema in fulminant hepatic failure. Blei AT. **Prog Liver Dis** 1995;13:311–30 (103 ref.)

Hepatic mucormycosis in a child with fulminant hepatic failure. Erdem G, et al. **Turk J Pediatr** 1996 Oct–Dec; 38(4):511–4

Hepatic retinopathia. Changes in retinal function. Eckstein AK, et al. **Vision Res** 1997 Jun;37(12):1699–706

[Constrictive pericarditis complicated with hepatic coma—a case report] Nakamura K, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Feb;45(2):187–90 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Advanced electrophysiological diagnostics of hepatic and portosystemic encephalopathy. Kuba M, et al. **Acta Medica (Hradec Kralove)** 1996;39(1):21–5

T1 and T2 alterations in the brains of patients with hepatic cirrhosis. Vymazal J, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):333–6

Does liver dysfunction explain neuropsychological status in recently detoxified alcohol–dependent clients? Walton NH, et al. **Alcohol Alcohol** 1997 May–Jun;32(3):287–95

Subclinical hepatic encephalopathy: how best to diagnose? Chalasani N, et al. **Am J Gastroenterol** 1997 May; 92(5):905–6

HEPATIC ENCEPHALOPATHY

Arterial ammonia with Blood Ammonia Checker II and with indophenol reaction to assess presence of hepatic encephalopathy. Huizenga JR, et al. **Clin Chim Acta** 1996 Aug 15;252(1):73–82

Proton magnetic resonance spectroscopy: the new gold standard for diagnosis of clinical and subclinical hepatic encephalopathy? Ross BD, et al. **Dig Dis** 1996;14 Suppl 1:30–9 (23 ref.)

Evoked potentials and the effect of flumazenil in patients with liver cirrhosis. Ozyilkan E, et al. **East Afr Med J** 1997 Apr;74(4):210–2

NMR spectroscopy in portal-systemic encephalopathy: are we there yet? [editorial; comment] Schenker S, et al. **Gastroenterology** 1997 May;112(5):1758–61. Comment on: Gastroenterology 1997 May;112(5):1610–6.

Spontaneous recovery of post partus liver necrosis in a patient listed for transplantation. Doepel M, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):1084–7

Cerebral abnormalities in patients with cirrhosis detected by proton magnetic resonance spectroscopy and magnetic resonance imaging. Geissler A, et al. **Hepatology** 1997 Jan; 25(1):48–54

Oral glutamine challenge in cirrhotics pre- and post-liver transplantation: a psychometric and analyzed EEG study. Oppong KN, et al. **Hepatology** 1997 Oct;26(4):870–6

The diagnosis of subclinical hepatic encephalopathy in patients with cirrhosis using neuropsychological tests and automated electroencephalogram analysis. Quero JC, et al. **Hepatology** 1996 Sep;24(3):556–60

Epileptiform abnormalities in hepatic encephalopathy. Ficker DM, et al. **J Clin Neurophysiol** 1997 May;14(3):230–4

Electroencephalographic abnormalities in liver transplant recipients: practical considerations and review. Steg RE, et al. **J Clin Neurophysiol** 1996 Jan;13(1):60–8 (30 ref.)

The application of magnetic resonance spectroscopy to the study of hepatic encephalopathy. Seery JP, et al. **J Hepatol** 1996 Dec;25(6):988–98 (75 ref.)

Utility of cerebral proton magnetic resonance spectroscopy in differential diagnosis of HIV-related dementia. Swindells S, et al. **J Neurovirol** 1995 Sep;1(3–4):268–74

Brain MR imaging in patients with hepatic cirrhosis: relationship between high intensity signal in basal ganglia on T1-weighted images and elemental concentrations in brain. Maeda H, et al. **Neuroradiology** 1997 Aug; 39(8):546–50

Effects of portal-systemic shunt embolization on the basal ganglia: MRI. Matsumoto S, et al. **Neuroradiology** 1997 May;39(5):326–8

Atypical MRI features of Wilson's disease: high signal in globus pallidus on T1-weighted images. Mochizuki H, et al. **Neuroradiology** 1997 Mar;39(3):171–4

Differentiation between portal-systemic encephalopathy and neurodegenerative disorders in patients with Wilson disease: H-1 MR spectroscopy. Van Den Heuvel AG, et al. **Radiology** 1997 May;203(2):539–43

Spontaneous group B streptococcal meningitis in a patient with cirrhosis. Tung BY, et al. **West J Med** 1996 Oct; 165(4):229–30 (13 ref.)

[Intraoperative EEG monitoring in hemihepatectomies] Goldmann R, et al. **Anaesthesiol Reanim** 1996;21(4):88–90 (Eng. Abstr.) **(Ger)**

[Hepatic encephalopathy after portosystemic shunt] Jentschura D, et al. **Langenbecks Arch Chir** 1996; 381(5):283–8 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Lactulose improves psychometric testing in cirrhotic patients with subclinical encephalopathy. Horsmans Y, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):165–70

Review article: pathogenesis and treatment of chronic hepatic encephalopathy. Jalan R, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):681–97 (163 ref.)

Pseudocervical cord syndrome: a deceptive flumazenil reversible manifestation of hepatic encephalopathy [letter] McDonald JW, et al. **Arch Neurol** 1996 Oct;53(10):956

Lactulose and combination therapy of hepatic encephalopathy: the role of the intestinal microflora. Weber FL Jr. **Dig Dis** 1996;14 Suppl 1:53–63 (71 ref.)

Modulation of hepatic encephalopathy in rats with thioacetamide-induced acute liver failure by serotonin antagonists. Yurdaydin C, et al. **Eur J Gastroenterol Hepatol** 1996 Jul;8(7):667–71

Evaluation of the efficacy and safety of flumazenil in the treatment of portal systemic encephalopathy: a double blind, randomised, placebo controlled multicentre study. Gyr K, et al. **Gut** 1996 Aug;39(2):319–24

Therapeutic efficacy of L-ornithine-L-aspartate infusions in patients with cirrhosis and hepatic encephalopathy: results of a placebo-controlled, double-blind study. Kircheis G, et al. **Hepatology** 1997 Jun;25(6):1351–60

Memantine, a noncompetitive NMDA receptor antagonist improves hyperammonemia-induced encephalopathy and acute hepatic encephalopathy in rats [see comments] Vogels BA, et al. **Hepatology** 1997 Apr;25(4):820–7. Comment in: Hepatology 1997 Apr;25(4):1032–4.

Brain extracellular quinolinic acid in chronic experimental hepatic encephalopathy as assessed by in vivo microdialysis: acute effects of L-tryptophan. Bergqvist PB, et al. **Neuropsychopharmacology** 1996 Oct;15(4):382–9

A clinical hepatologist's predictions about non-absorbed carbohydrates for the early twenty-first century. Conn HO. **Scand J Gastroenterol Suppl** 1997;222:88–92 (51 ref.)

In vitro and in vivo lactose and lactulose effects on colonic fermentation and portal-systemic encephalopathy parameters. Uribe-Esquivel M, et al. **Scand J Gastroenterol Suppl** 1997;222:49–52

Newer approaches to therapy of hepatic encephalopathy. Ferenci P, et al. **Semin Liver Dis** 1996 Aug;16(3):329–38 (71 ref.)

ENZYMOLOGY

Sequestration of coenzyme A by the industrial surfactant, Toximul MP8. A possible role in the inhibition of fatty-acid beta-oxidation in a surfactant/influenza B virus mouse model for acute hepatic encephalopathy. Murphy MG, et al. **Biochim Biophys Acta** 1997 Jul 10;1361(1):103–13

EPIDEMIOLOGY

The epidemiology of acetaminophen (paracetamol) poisoning in Hong Kong. Chan TY. **Vet Hum Toxicol** 1996 Dec; 38(6):443–4

ETIOLOGY

Helicobacter pylori, hyperammonemia, and hepatic encephalopathy: is there a correlation? [letter] Rinaldi V, et al. **Am J Gastroenterol** 1997 Apr;92(4):723–4

A rare intrahepatic portacaval tubular shunt in a patient with spastic paraparesis. Ardic S, et al. **Australas Radiol** 1997 May;41(2):181–4 (17 ref.)

Fulminant hepatic failure as the first manifestation of Wilson disease: a report of two cases. Chung CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 May;59(5):315–9

Pathogenesis of hepatic encephalopathy: potential future approaches. Mullen KD, et al. **Dig Dis** 1996;14 Suppl 1:20–9 (37 ref.)

Transjugular intrahepatic portosystemic shunt and hepatic encephalopathy. Rössle M, et al. **Dig Dis** 1996;14 Suppl 1:12–9 (35 ref.)

Precipitation of overt encephalopathy in the portacaval shunted rat: towards the development of an adequate model of chronic portal systemic encephalopathy. Mullen KD, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):293–8

Ammonia and GABA-ergic neurotransmission: interrelated factors in the pathogenesis of hepatic encephalopathy. Basile AS, et al. **Hepatology** 1997 Jun;25(6):1303–5 (43 ref.)

Hepatic encephalopathy and brain edema in acute hepatic failure: does glutamate play a role? [editorial; comment] Butterworth RF. **Hepatology** 1997 Apr;25(4):1032–4 (27 ref.). Comment on: Hepatology 1997 Apr;25(4):820–7.

Neutrophil-mediated sinusoidal endothelial cell injury after extensive hepatectomy in cholestatic rats. Ohtsuka M, et al. **Hepatology** 1997 Mar;25(3):636–41

The diagnosis of subclinical hepatic encephalopathy in patients with cirrhosis using neuropsychological tests and automated electroencephalogram analysis. Quero JC, et al. **Hepatology** 1996 Sep;24(3):556–60

Ironic insult added to copper injury. Schilsky ML. **Hepatology** 1997 Mar;25(3):776–8

Early fulminant graft failure in orthotopic liver transplantation with massive haemorrhagic necrosis. Zimmermann A, et al. **Ital J Gastroenterol** 1995 Dec; 27(9):501–5

Porto-hepatic venous shunt via portal vein aneurysm with splenomegaly. Hanatate F, et al. **J Gastroenterol** 1995 Dec; 30(6):786–9 (21 ref.)

Case report: recurrent hyperammonaemic encephalopathy due to citrullinaemia in a 52 year old man. Chow WC, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):621–5

Case report: portal-systemic encephalopathy due to a congenital extrahepatic portosystemic shunt [see comments] Kiriyama M, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):626–9. Comment in: J Gastroenterol Hepatol 1997 May;12(5):417–8.

Fulminant hepatic failure in pregnant women: acute fatty liver or acute viral hepatitis? Hamid SS, et al. **J Hepatol** 1996 Jul;25(1):20–7

The effects of ammonia and portal-systemic shunting on brain metabolism, neurotransmission and intracranial hypertension in hyperammonaemia-induced encephalopathy. Vogels BA, et al. **J Hepatol** 1997 Feb; 26(2):387–95

Hepatitis-E-associated fulminant hepatic failure in non-pregnant young women [letter; comment] Zijlstra JG, et al. **Lancet** 1997 Jul 26;350(9073):289–90. Comment on: Lancet 1997 Apr 12;349(9058):1081–5.

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 10-1997. A 68-year-old woman with hepatic encephalopathy [clinical conference] **N Engl J Med** 1997 Mar 27;336(13):939–47

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 1-1997. A 23-year-old man with fulminant hepatorenal failure of uncertain cause [clinical conference] [published erratum appears in N Engl J Med 1997 Feb 13;336(7):523] **N Engl J Med** 1997 Jan 9;336(2):118–25

Thyroiditis and hepatitis: Fas on the road to disease [news; comment] French LE, et al. **Nat Med** 1997 Apr;3(4):387–8 . Comment on: Nat Med 1997 Apr;3(4):409–13.

Essential roles of the Fas ligand in the development of hepatitis [see comments] Kondo T, et al. **Nat Med** 1997 Apr;3(4):409–13. Comment in: Nat Med 1997 Apr;3(4):387–8.

Fulminant hepatic failure: pediatric aspects. Bhaduri BR, et al. **Semin Liver Dis** 1996 Nov;16(4):349–55 (50 ref.)

[Fulminant or sub-fulminant hepatocellular failure caused by metastatic invasiveness of the liver: an other cause of hypoxic hepatitis?] Henrion J, et al. **Gastroenterol Clin Biol** 1996;20(6-7):535–43 (38 ref.) (Eng. Abstr.) **(Fre)**

[Fulminant hepatitis in children] Durand P, et al. **Presse Med** 1996 Oct 19;25(31):1501–6 (19 ref.) (Eng. Abstr.) **(Fre)**

[Evaluation of hepatic encephalopathy and portal hemodynamics by Doppler ultrasonography after a transjugular intrahepatic portosystemic shunt] Kimura M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Apr; 57(5):233–7 (Eng. Abstr.) **(Jpn)**

[Involvement of Fas and Fas ligand in case of human fulminant hepatitis] Ryo K, et al. **Nippon Rinsho** 1996 Jul; 54(7):1965–9 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Acute liver failure as presentation form of small cell carcinoma of the lung] Valladares Ayerbes MJ, et al. **An Med Interna** 1997 Mar;14(3):128–30 (Eng. Abstr.) **(Spa)**

[Fulminant hepatic insufficiency secondary to a metastatic pulmonary adenocarcinoma (letter)] Haro M, et al. **Arch Bronconeumol** 1996 Dec;32(10):552–3 **(Spa)**

GENETICS

Lack of hepatocyte growth factor receptor (c-met) gene expression in fulminant hepatic failure livers before transplantation. Ljubimova JY, et al. **Dig Dis Sci** 1997 Aug; 42(8):1675–80

HISTORY

Morgagni: his book, vision and views on hepatic coma. Chen TS, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1062–4

METABOLISM

Taurine in hepatic encephalopathy. Butterworth RF. **Adv Exp Med Biol** 1996;403:601–6 (29 ref.)

Kynurenine pathway metabolism in the galactosamine model of hepatic injury. Saito K, et al. **Adv Exp Med Biol** 1996; 398:421–4

The contribution of various organs to ammonia formation: a review of factors determining the arterial ammonia concentration [see comments] Huizenga JR, et al. **Ann Clin Biochem** 1996 Jan;33 (Pt 1):23–30 (63 ref.). Comment in: Ann Clin Biochem 1997 Mar;34 (Pt 2):210–1.

The glial glutamate transporter in hyperammonemia and hepatic encephalopathy: relation to energy metabolism and glutamatergic neurotransmission. Norenberg MD, et al. **Glia** 1997 Sep;21(1):124–33

Glutamine, myo-inositol, and organic brain osmolytes after portocaval anastomosis in the rat: implications for ammonia-induced brain edema. Cordoba J, et al. **Hepatology** 1996 Oct;24(4):919–23

Cerebral benzodiazepine receptor binding in vivo in patients with recurrent hepatic encephalopathy. Macdonald GA, et al. **Hepatology** 1997 Aug;26(2):277–82

Selective loss of binding sites for the glutamate receptor ligands [3H]kainate and (S)-[3H]5-fluorowillardiine in the brains of rats with acute liver failure. Michalak A, et al. **Hepatology** 1997 Mar;25(3):631–5

Comparison of the metabolic disturbances caused by end-to-side and side-to-side portacaval shunts. Hawkins PA, et al. **J Appl Physiol** 1996 Mar;80(3):885–91

Severity of hyperammonemic encephalopathy correlates with brain ammonia level and saturation of glutamine synthetase in vivo. Kanamori K, et al. **J Neurochem** 1996 Oct; 67(4):1584–94

Increased density of catalytic sites and expression of brain monoamine oxidase A in humans with hepatic encephalopathy. Mousseau DD, et al. **J Neurochem** 1997 Mar;68(3):1200–8

Relation of taurine transport and brain edema in rats with simple hyperammonemia or liver failure. Hilgier W, et al. **J Neurosci Res** 1996 Jul 1;45(1):69–74

Acute effects of L-tryptophan on brain extracellular 5-HT and 5-HIAA levels in chronic experimental portal-systemic encephalopathy. Bergqvist PB, et al. **Metab Brain Dis** 1996 Sep;11(3):269–78

Neuroactive amino acids in hepatic encephalopathy. Butterworth RF. **Metab Brain Dis** 1996 Jun;11(2):165–73

Kainate and AMPA receptors in the rat brain in thioacetamide-induced hepatic encephalopathy. Oja SS, et al. **Proc West Pharmacol Soc** 1996;39:15–7

[The effect of tumor necrosis factor alpha on hepatic necrosis in viral hepatitis] Yu Y, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):28–31 (Eng. Abstr.) **(Chi)**

MICROBIOLOGY

Helicobacter pylori, ammonia and the brain [comment] Taylor-Robinson SD, et al. **Gut** 1997 Jun;40(6):805–6. Comment on: Gut 1997 Jun;40(6):726–30.

Fulminant liver failure in association with the emetic toxin of Bacillus cereus [see comments] Mahler H, et al. **N Engl J Med** 1997 Apr 17;336(16):1142–8. Comment in: N Engl J Med 1997 Apr 17;336(16):1173–4.

Power failure, liver failure [editorial; comment] Schafer DF, et al. **N Engl J Med** 1997 Apr 17;336(16):1173–4. Comment on: N Engl J Med 1997 Apr 17;336(16):1142–8.

MORTALITY

A prognostic model for patients with end-stage liver disease. Cooper GS, et al. **Gastroenterology** 1997 Oct; 113(4):1278–88

PARASITOLOGY

Fulminant hepatic failure caused by microsporidial infection in a patient with AIDS [letter] Sheth SG, et al. **AIDS** 1997 Mar 15;11(4):553–4

PATHOLOGY

Differential diagnosis of postoperative liver failure in a 12-year-old child. Hausmann R, et al. **Int J Legal Med** 1996;109(4):210–2

MRI findings in chronic hepatic encephalopathy depend on portosystemic shunt: results of a controlled prospective clinical investigation. Krieger S, et al. **J Hepatol** 1997 Jul; 27(1):121–6

Morphology of hepatic stellate cells in patients with fulminant or subfulminant hepatitis requiring liver transplantation. Bernard PH, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):5–12

Neurospectroscopic alterations and globus pallidus hyperintensity as related magnetic resonance markers of reversible hepatic encephalopathy. Pujol J, et al. **Neurology** 1996 Dec;47(6):1526–30

PHYSIOPATHOLOGY

Neuropsychiatric implications of brain tryptophan perturbations appearing in hepatic encephalopathy. Bengtsson F, et al. **Adv Exp Med Biol** 1996;398:387–95 (73 ref.)

Is quinolinic acid involved in the pathogenesis of hepatic encephalopathy? Bergqvist PB, et al. **Adv Exp Med Biol** 1996;398:397–405

Isokinetic muscle strength and its association with neuropsychological capacity in cirrhotic alcoholics. Tarter RE, et al. **Alcohol Clin Exp Res** 1997 Apr;21(2):191–6

Triphasic waves during post-ictal stupor. Ogunyemi A. **Can J Neurol Sci** 1996 Aug;23(3):208–12

Subclinical encephalopathy. Blei AT, et al. **Dig Dis** 1996;14 Suppl 1:2–11 (42 ref.)

Cortico-spinal pathways and inhibitory mechanisms in hepatic encephalopathy. Nolano M, et al. **Electroencephalogr Clin Neurophysiol** 1997 Feb;105(1):72–8

A prognostic model for patients with end-stage liver disease. Cooper GS, et al. **Gastroenterology** 1997 Oct; 113(4):1278–88

Resistance to 3-mercaptopropionic acid-induced seizures in hepatic encephalopathy. Ferreira MR, et al. **Hepatogastroenterology** 1997 May-Jun;44(15):766–9

Auditory event-related cerebral potentials (P300) in hepatic encephalopathy—topographic distribution and correlation with clinical and psychometric assessment. Hollerbach S, et al. **Hepatogastroenterology** 1997 Jul-Aug;44(16):1002–12

Fulminant hepatic failure in rats: survival and effect on blood chemistry and liver regeneration. Eguchi S, et al. **Hepatology** 1996 Dec;24(6):1452–9

Identification of high- and low-risk patients before liver transplantation: a prospective cohort study of nutritional and metabolic parameters in 150 patients. Selberg O, et al. **Hepatology** 1997 Mar;25(3):652–7

Liver function, cerebral blood flow autoregulation, and hepatic encephalopathy in fulminant hepatic failure. Strauss G, et al. **Hepatology** 1997 Apr;25(4):837–9

Prognostic factor analysis of fulminant and subfulminant hepatic failure in an area endemic for hepatitis B. Huo TI, et al. **J Gastroenterol Hepatol** 1996 Jun;11(6):560–5

Treatment with a novel lipid A analogue, FS-112, and partial hepatectomy causes submassive liver necrosis and impaired liver regeneration in mice. Maeda T, et al. **J Gastroenterol Hepatol** 1996 May;11(5):471–7

Pitfalls in intracranial pressure monitoring in fulminant hepatic failure [letter] Larsen S, et al. **J Hepatol** 1997 Feb; 26(2):451–2

Diagnostic tools for the detection of subclinical hepatic encephalopathy: comparison of standard and computerized psychometric tests with spectral-EEG. Amodio P, et al. **Metab Brain Dis** 1996 Dec;11(4):315–27

Release of [3H]dopamine from striatal and cerebral cortical slices from rats with thioacetamide-induced hepatic encephalopathy: different responses to stimulation by potassium ions and agonists of ionotropic glutamate receptors. Borkowska HD, et al. **Neurochem Res** 1997 Feb; 22(2):101–6

Electrophysiological alterations in hepatic encephalopathy detected by brain mapping. Malaguarnera M, et al. **Panminerva Med** 1996 Jun;38(2):84–8

Central vs. peripheral spontaneous behavioral abnormalities in experimental hepatic encephalopathy. Apelqvist G, et al. **Physiol Behav** 1997 Jun;61(6):851–6

Impairment of citrate metabolism in acute hepatic failure. Apsner R, et al. **Wien Klin Wochenschr** 1997 Feb 28; 109(4):123–7

[Fulminant liver insufficiency and the possible role of intracranial pressure monitoring, also in children] Plötz FB, et al. **Ned Tijdschr Geneeskd** 1996 Nov 16;140(46):2274–6 (28 ref.) **(Dut)**

[Changes of hemostasis in patients with acute hepatitis B and hepatic encephalopathy] Bogomolov BP, et al. **Klin Med (Mosk)** 1997;75(4):26–7 **(Rus)**

PREVENTION & CONTROL

Protective effect of L-carnitine in ammonia-precipitated encephalopathy in the portacaval shunted rat. Therrien G, et al. **Hepatology** 1997 Mar;25(3):551–6

Systemic injection of a tripeptide inhibits the intracellular activation of CPP32-like proteases in vivo and fully protects mice against Fas-mediated fulminant liver destruction and death. Rodriguez I, et al. **J Exp Med** 1996 Nov 1;184(5):2067–72

[Fulminating and subfulminating hepatic failure, emergency of prevention (editorial)] Bernuau J, et al. **Gastroenterol Clin Biol** 1997;21(5):387–90 (32 ref.) **(Fre)**

PSYCHOLOGY

Neuropsychiatric implications of brain tryptophan perturbations appearing in hepatic encephalopathy. Bengtsson F, et al. **Adv Exp Med Biol** 1996;398:387–95 (73 ref.)

Behavioral and electroencephalographic studies of beagles with an Eck's fistula: suitability as a model of hepatic encephalopathy. Watanabe M, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1-2):367–75

RADIOGRAPHY

Fulminant hepatic failure: observation with serial CT. Itai Y, et al. **Radiology** 1997 Feb;202(2):379–82

RADIONUCLIDE IMAGING

Auxiliary liver transplantation in patients with fulminant hepatic failure: hepatobiliary scintigraphic follow-up. Buyck D, et al. **Eur J Nucl Med** 1997 Feb;24(2):138–42

Factor analysis in successive hepatobiliary imaging of native and transplant livers. Petras S, et al. **J Nucl Med** 1996 May; 37(5):847–51

Evaluation of fulminant hepatic failure by scintigraphy with technetium-99m-GSA. Shiomi S, et al. **J Nucl Med** 1997 Jan;38(1):79–82

RADIOTHERAPY

[Laser therapy of acute hepatic encephalopathy in patients with hepatitis B] Botsvadze ES, et al. **Klin Med (Mosk)** 1996;74(4):69 **(Rus)**

REHABILITATION

Cognitive deficits after hepatic transplantation: relevance to the rehabilitation potential. Kaplan PE, et al. **Brain Inj** 1996 Aug;10(8):599–607

SURGERY

Split-liver transplantation. The Paul Brousse policy. Azoulay D, et al. **Ann Surg** 1996 Dec;224(6):737–46; discussion 746–8 (41 ref.)

Auxiliary partial orthotopic liver transplantation for fulminant hepatitis. The Paul Brousse experience. Bismuth H, et al. **Ann Surg** 1996 Dec;224(6):712–24; discussion 724–6

Polyacrylonitrile membrane interposition between a xenograft and an animal in fulminant liver failure. The concept of xenohemodiafiltration. Argibay PF, et al. **ASAIO J** 1996 Sep-Oct;42(5):M411–6

Evaluation of liver transplantation for high-risk indications. Chung SW, et al. **Br J Surg** 1997 Feb;84(2):189–95

Liver transplantation for fulminant hepatic failure in a Jehovah's Witness. Seu P, et al. **Clin Transplant** 1996 Oct; 10(5):404–7

Auxiliary liver transplantation in patients with fulminant hepatic failure: hepatobiliary scintigraphic follow-up. Buyck D, et al. **Eur J Nucl Med** 1997 Feb;24(2):138–42

Posttransplantation chronic hepatitis in fulminant hepatic failure. Mohamed R, et al. **Hepatology** 1997 Apr; 25(4):1003–7

Hepatocyte transplantation. Habibullah CM, et al. **Indian J Gastroenterol** 1996 Jan;15(1):16–9 (31 ref.)

Liver transplantation in a case of fulminant liver failure after exertion [letter] Saissy JM. **Intensive Care Med** 1996 Aug; 22(8):831

Early indicators of prognosis in fulminant hepatic failure: an assessment of the King's criteria. Anand AC, et al. **J Hepatol** 1997 Jan;26(1):62–8

Transplantation in patients with paracetamol-induced fulminant hepatic failure [letter] Gow PJ, et al. **Lancet** 1997 Mar 1;349(9052):651–2

Seizures after orthotopic liver transplantation. Wszolek ZK, et al. **Seizure** 1997 Feb;6(1):31–9 (33 ref.)

TIPS and hepatic encephalopathy. Pomier-Layrargues G. **Semin Liver Dis** 1996 Aug;16(3):315–20 (41 ref.)

Living-related liver transplantation for fulminant hepatic failure. Fuchinoue W, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):424–7

Non-anatomical reduction of liver allografts: a promising option for neonates with fulminant hepatic failure. Rela M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):446

Combined xenotransplantation of encapsulated hepatocytes and pancreatic islets. Rivas-Vetencourt PA, et al. **Transplant Proc** 1997 Jun;29(4):2136–9

Long-term follow-up of auxiliary liver transplantation for fulminant hepatic failure. Sudan DL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):485–6

Treatment of acetaminophen-induced fulminant hepatic failure with a bioartificial liver. Watanabe FD, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):487–8

Successful emergency transplantation of a liver allograft from a donor maintained on extracorporeal membrane oxygenation. Johnson LB, et al. **Transplantation** 1997 Mar 27;63(6):910–1

Successful living related liver transplantation in an adult with fulminant hepatic failure. Kato T, et al. **Transplantation** 1997 Aug 15;64(3):415–7

Minimum graft volume for successful adult-to-adult living donor liver transplantation for fulminant hepatic failure. Lo CM, et al. **Transplantation** 1996 Sep 15;62(5):696–8

Complete neurological recovery of an adult patient with type II citrullinemia after living related partial liver transplantation. Yazaki M, et al. **Transplantation** 1996 Dec 15;62(11):1679–84

Recurrent hepatitis C virus infection after liver transplantation--long-term follow-up with respect to the HCV genotypes/subtypes. Arnold JC, et al. **Z Gastroenterol** 1997 Apr;35(4):255–61

Transplantation of complete and split liver grafts for patients with fulminant hepatic failure. Sterneck M, et al. **Z Gastroenterol** 1996 Dec;34(12):795–800

[Fulminating and subfulminating hepatitis. Surgical aspects in management and therapeutic prospects] Boudjema K, et al. **Gastroenterol Clin Biol** 1997;21(5):412–22 (81 ref.) **(Fre)**

[Indications for liver transplantation in severe amanita phalloides mushroom poisoning] Bektas H, et al. **Chirurg** 1996 Oct;67(10):996–1001 (Eng. Abstr.) **(Ger)**

[Auxiliary liver transplantation in urgent and emergency indications] Erhard J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:422–4 (Eng. Abstr.) **(Ger)**

[Transplantation of genetically constructed clonal liver cell lines in a model of chronic liver failure] Schumacher IK, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:303–7 (Eng. Abstr.) **(Ger)**

[Fulminant hepatic failure and liver transplantation] Marubayashi S, et al. **Nippon Geka Gakkai Zasshi** 1997 May;98(5):516–23 (43 ref.) (Eng. Abstr.) **(Jpn)**

[Reversal of portal-systemic encephalopathy by shunt-preserving disconnection of portal and systemic circulation] Kashida H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):96–103 (Eng. Abstr.) **(Jpn)**

THERAPY

Treatment of hepatic encephalopathy. Córdoba J, et al. **Am J Gastroenterol** 1997 Sep;92(9):1429–39 (136 ref.)

Determinants of ammonia clearance by hemodialysis. Cordoba J, et al. **Artif Organs** 1996 Jul;20(7):800–3

Favorable effect of new artificial liver support on survival of patients with fulminant hepatic failure. Yoshiba M, et al. **Artif Organs** 1996 Nov;20(11):1169–72

Polyacrylonitrile membrane interposition between a xenograft and an animal in fulminant liver failure. The concept of xenohemodiafiltration. Argibay PF, et al. **ASAIO J** 1996 Sep-Oct;42(5):M411–6

Prolonged artificial liver support in a child with fulminant hepatic failure. Okamoto K, et al. **ASAIO J** 1996 May-Jun; 42(3):233–5

Treatment of hepatic encephalopathy by retrograde transcaval coil embolization of an ileal vein-to-right gonadal vein portosystemic shunt. Nishie A, et al. **Cardiovasc Intervent Radiol** 1997 May-Jun;20(3):222–4

Embolization of portal-systemic shunts in cirrhotic patients with chronic recurrent hepatic encephalopathy. Sakurabayashi S, et al. **Cardiovasc Intervent Radiol** 1997 Mar-Apr;20(2):120–4

Treatment of hepatic encephalopathy in patients with cirrhosis of the liver. Ferenci P. **Dig Dis** 1996;14 Suppl 1:40–52 (58 ref.)

Neurological and psychological sequelae in transplant recipients after bridging with the bioartificial liver. Coffman KL, et al. **Gen Hosp Psychiatry** 1996 Nov;18(6 Suppl):20S–24S

Pilot-controlled trial of the extracorporeal liver assist device in acute liver failure. Ellis AJ, et al. **Hepatology** 1996 Dec; 24(6):1446–51

Importance of the kinetic characterization of liver cell metabolic reactions to the design of hybrid liver support devices. Catapano G, et al. **Int J Artif Organs** 1996 Nov; 19(11):670–6 (19 ref.)

Clinical experience with a porcine hepatocyte-based liver support system. Chen SC, et al. **Int J Artif Organs** 1996 Nov;19(11):664–9

Delayed encephalopathy in fulminant hepatic failure in the pediatric population and the role of liver transplantation. Rivera-Penera T, et al. **J Pediatr Gastroenterol Nutr** 1997 Feb;24(2):128–34

Successful reversal of hepatic encephalopathy with intentional occlusion of transjugular intrahepatic portosystemic shunts. Kerlan RK Jr, et al. **J Vasc Interv Radiol** 1995 Nov-Dec;6(6):917–21

Hybrid devices offer hope for the failing liver [news] Bonn D. **Lancet** 1996 Nov 16;348(9038):1372

Treatment of hepatic encephalopathy. Riordan SM, et al. **N Engl J Med** 1997 Aug 14;337(7):473–9 (73 ref.)

Artificial hepatic support systems. Demetriou AA, et al. **Prog Liver Dis** 1995;13:331–48

HEPATIC ENCEPHALOPATHY

Effects of lactulose on nitrogen metabolism. Weber FL Jr. **Scand J Gastroenterol Suppl** 1997;222:83–7 (42 ref.)
Liver transplantation for fulminant hepatic failure: importance of renal failure. Mendoza A, et al. **Transpl Int** 1997;10(1):55–60
Experimental evaluation of a hybrid liver support system. Gerlach JC, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):852
Xenotransplantation of isolated encapsulated porcine hepatocytes in the treatment of a highly fulminant hepatic failure model. Rivas–Vetencourt PA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):920–2
Application of immunoapheresis for delaying hyperacute rejection during isolated xenogeneic pig liver perfusion. Pascher A, et al. **Transplantation** 1997 Mar 27;63(6):867–75
[A step towards a bioartificial liver: temporary extracorporeal replacement using isolated hepatocytes] Clément B, et al. **Bull Acad Natl Med** 1996 Oct;180(7):1753–63; discussion 1764–7 (Eng. Abstr.) **(Fre)**
[Prevention and therapy of complications of liver cirrhosis: ascites, encephalopathy and malnutrition] Köllinger M, et al. **Med Klin** 1996 Feb 15;91(2):89–102 (143 ref.) **(Ger)**
[Hepatic encephalopathy, diagnosis and therapy] Wettstein M, et al. **Med Klin** 1996 Jul 15;91(7):447–8 **(Ger)**
[Use of extracorporeal hybrid (natural–artificial) liver in the treatment of patients with fulminant hepatitis] Bojić I. **Vojnosanit Pregl** 1996 Mar–Apr;53(2):133–6 (42 ref.) **(Scr)**

ULTRASONOGRAPHY

[A case of acquired intrahepatic portosystemic shunt via portal vein aneurysm] Kounoura K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):126–30 **(Jpn)**

VETERINARY

Ammonia and encephalopathy in the horse [editorial; comment] Mair TS. **Equine Vet J** 1997 Jan;29(1):1–2. Comment on: Equine Vet J 1997 Jan;29(1):70–4.
Hyperammonaemia associated with encephalopathy and abdominal pain without evidence of liver disease in four mature horses [see comments] Peek SF, et al. **Equine Vet J** 1997 Jan;29(1):70–4. Comment in: Equine Vet J 1997 Jan;29(1):1–2.
Feline portosystemic shunts. Schunk CM. **Semin Vet Med Surg (Small Anim)** 1997 Feb;12(1):45–50 (12 ref.)
[Case report. Cholangiopathy and cholelithiasis and acute hepatic syndrome] Grabner A. **Tierarztl Prax** 1997 Jul; 25(4):317, 370–2 **(Ger)**

VIROLOGY

Prevalence of herpesviridae and hepatitis B virus DNA in the liver of patients with non–A, non–B fulminant hepatic failure. Mason A, et al. **Hepatology** 1996 Dec;24(6):1361–5
Etiology of sporadic acute and fulminant non–A, non–B viral hepatitis in north India. Kar P, et al. **Indian J Gastroenterol** 1997 Apr;16(2):43–5
Acute viral cholecystitis in viral hepatitis [letter; comment] Agrawal A. **J Assoc Physicians India** 1995 Feb;43(2):145–6 . Comment on: J Assoc Physicians India 1994 May;42(5):428.
A prospective study of delta infection in fulminant hepatic failure. Narang A, et al. **J Assoc Physicians India** 1996 Apr; 44(4):246–7
The clinical significance of the detection of hepatitis GBV–C RNA in the serum of patients with fulminant, presumed viral, hepatitis. Haydon GH, et al. **J Viral Hepat** 1997 Jan; 4(1):45–9
Association between fulminant hepatic failure and a strain of GBV virus C [see comments] Heringlake S, et al. **Lancet** 1996 Dec 14;348(9042):1626–9. Comment in: Lancet 1997 Feb 8;349(9049):435.
Hepatitis GB virus C [letter] Yoshiba M, et al. **N Engl J Med** 1996 Oct 31;335(18):1392–3

HEPATIC ENTAMOEBIASIS see **LIVER ABSCESS, AMEBIC**

HEPATIC FAILURE, FULMINANT see **HEPATIC ENCEPHALOPATHY**

HEPATIC GLYCOGEN see **LIVER GLYCOGEN**

HEPATIC PORPHYRIA see **PORPHYRIA, HEPATIC**

HEPATIC PORTOENTEROSTOMY see **PORTOENTEROSTOMY, HEPATIC**

HEPATIC TRANSPLANTATION see **LIVER TRANSPLANTATION**

HEPATIC VEIN THROMBOSIS

New approaches to the Budd–Chiari syndrome. Mahmoud A, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1121–3 (32 ref.)
Budd–Chiari syndrome: a review of ten cases. Farah S, et al. **J Int Med Res** 1997 May–Jun;25(3):171–4
[Hepatic vein thrombosis. Diagnostic and therapeutic difficulties] Bjøro K, et al. **Tidsskr Nor Laegeforen** 1997 Apr 10;117(9):1274–6 (Eng. Abstr.) **(Nor)**

BLOOD

Acute Budd–Chiari syndrome with fulminant hepatic failure in a pregnant woman with factor V Leiden mutation. Fickert P, et al. **Gastroenterology** 1996 Dec;111(6):1670–3
Tissue plasminogen activator and plasminogen activator inhibitor status in Budd–Chiari syndrome. Dayal S, et al. **Haemostasis** 1996 Sep–Oct;26(5):284–7

COMPLICATIONS

Surgical technique for cranio–cervical decompression in syringomyelia associated with Chiari type I malformation. Vanaclocha V, et al. **Acta Neurochir (Wien)** 1997; 139(6):529–39; discussion 539–40
Noncirrhotic portal vein thrombosis causing sudden unexpected death. A rare cause of fatally ruptured esophageal varices. Denton JS, et al. **Am J Forensic Med Pathol** 1997 Jun;18(2):199–201
Acromegaly associated with Chiari–I malformation and polycystic ovary syndrome. Hara M, et al. **Intern Med** 1996 Oct;35(10):803–7
Balloon dilatation of inferior vena cava stenosis in Budd–Chiari syndrome. Tyagi S, et al. **J Assoc Physicians India** 1996 Jun;44(6):378–80
Polycythemia vera: overt to latent form in a patient with Budd–Chiari syndrome. Dayal S, et al. **J Clin Gastroenterol** 1996 Jan;22(1):76–7
Budd–Chiari syndrome associated with 5q deletion and hypereosinophilia. Zylberberg H, et al. **J Clin Gastroenterol** 1996 Jul;23(1):66–8

DIAGNOSIS

Budd–Chiari syndrome as a presenting syndrome for Behçet's disease [letter] Oge N, et al. **Int J Dermatol** 1997 Jul; 36(7):556–7
Asymptomatic membranous obstruction of the inferior vena cava forming intrahepatic collateral pathways. Kamba M, et al. **J Gastroenterol** 1995 Dec;30(6):783–5
A case of Budd–Chiari syndrome with high antiphospholipid antibody in a patient with systemic lupus erythematosus. Yun YY, et al. **Korean J Intern Med** 1996 Jan;11(1):82–6
Vascular diseases and MR angiography of the liver. Spritzer CE. **Magn Reson Imaging Clin N Am** 1997 May;5(2):377–96 (66 ref.)

DRUG THERAPY

Report of two cases of children with Budd–Chiari syndrome successfully treated with streptokinase. Sawamura R, et al. **Arq Gastroenterol** 1996 Jul–Sep;33(3):179–81 (31 ref.)

ETIOLOGY

Primary Budd–Chiari syndrome due to complex venous anomalies. Sakamoto N, et al. **Abdom Imaging** 1997 Sep–Oct;22(5):499–501
Budd–Chiari syndrome: a common complication of Behçet's disease. Bayraktar Y, et al. **Am J Gastroenterol** 1997 May; 92(5):858–62
Budd–Chiari syndrome resulting from intrahepatic IVC compression secondary to blunt hepatic trauma. Markert DJ, et al. **Clin Radiol** 1997 May;52(5):384–7
Budd–Chiari syndrome complicating severe preeclampsia in a parturient with primary antiphospholipid syndrome. Segal S, et al. **Eur J Obstet Gynecol Reprod Biol** 1996 Sep; 68(1–2):227–9
A case of Budd Chiari syndrome with protein C deficiency [letter] Kükner S, et al. **Eur J Pediatr** 1997 Apr;156(4):342
Alveolar echinococcosis of the liver: percutaneous stent therapy in Budd–Chiari syndrome. Vogel J, et al. **Gut** 1996 Nov;39(5):762–4
Hepatic venous outflow block caused by short–length hepatic vein stenoses. Valla D, et al. **Hepatology** 1997 Apr; 25(4):814–9
Budd–Chiari syndrome and myeloproliferative disorder [editorial; comment] Kudo M. **Intern Med** 1996 Nov; 35(11):837–8. Comment on: Intern Med 1996 Nov;35(11):871–5.
Budd–Chiari syndrome caused by hepatic vein thrombosis in a patient with myeloproliferative disorder [see comments] Usui T, et al. **Intern Med** 1996 Nov;35(11):871–5 . Comment in: Intern Med 1996 Nov;35(11):837–8.
Fulminant acute Budd–Chiari syndrome stemming from an adrenal tumor. Moreira V, et al. **J Clin Gastroenterol** 1997 Mar;24(2):110–2 (14 ref.)
Protein–losing enteropathy secondary to hepatic venous outflow obstruction after liver transplantation. Dousset B, et al. **J Hepatol** 1997 Jul;27(1):206–10
Acute Budd–Chiari syndrome caused by percutaneous placement of a transhepatic inferior vena cava catheter. Pieters PC, et al. **J Vasc Interv Radiol** 1997 Jul–Aug; 8(4):587–90
Budd–Chiari syndrome following pretransplant mononephrectomy in an autosomal dominant polycystic kidney disease patient with liver cysts [letter] Dionisio P, et al. **Nephron** 1997;75(1):109–11
Intravenous leiomyomatosis complicated by Budd–Chiari syndrome. Kuenen BC, et al. **Postgrad Med J** 1996 Nov; 72(853):686–8
Budd–Chiari syndrome: aetiology and geography [letter; comment] Pati HP, et al. **QJM** 1996 Sep;89(9):719–21. Comment on: QJM 1996 Jan;89(1):37–43.
[Unusual etiology of Budd–Chiari syndrome: pericardial cyst] Cataldi A, et al. **Radiol Med (Torino)** 1997 Mar;93(3):301–3 **(Ita)**
[Budd–Chiari syndrome as the presenting form of primary antiphospholipid syndrome (letter)] Garrido JA, et al. **An Med Interna** 1996 Jul;13(7):355–6 **(Spa)**
[Budd–Chiari syndrome associated with chronic myeloproliferative syndromes: analysis of 6 cases] Cobo F, et al. **Med Clin (Barc)** 1996 Nov 16;107(17):660–3 (Eng. Abstr.) **(Spa)**

GENETICS

Acute Budd–Chiari syndrome treated by liver transplantation in a woman homozygous for factor V Leiden. Blanshard C, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):925–7

NURSING

Liver–kidney transplantation for Budd–Chiari syndrome. Ronk LL, et al. **AORN J** 1996 Aug;64(2):196–201, 203–6 (27 ref.)

PATHOLOGY

Chiari type I malformation, glossopharyngeal neuralgia and central sleep apnoea in a child. Yglesias A, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1126–30
Unusual spontaneous hepatic vein to paraumbilical vein shunt in a patient with Budd–Chiari syndrome and cirrhosis: a case report. Bloom AI, et al. **Liver** 1997 Aug;17(4):210–3
[Obstruction of inferior vena cava (vena cava inferior syndrome)] Kuramochi M. **Ryoikibetsu Shokogun Shirizu** 1996;(14):438–9 (4 ref.) **(Jpn)**

PHYSIOPATHOLOGY

Chiari type I malformation, glossopharyngeal neuralgia and central sleep apnoea in a child. Yglesias A, et al. **Dev Med Child Neurol** 1996 Dec;38(12):1126–30
Multilineage hemopoietic stem cell defects in Budd Chiari syndrome. Dayal S, et al. **J Hepatol** 1997 Feb;26(2):293–7
Budd–Chiari syndrome and activated protein C resistance [letter] Mambrini P, et al. **J Hepatol** 1996 Feb;24(2):246

RADIOGRAPHY

Collateral pathways in Budd–Chiari syndrome: CT and venographic correlation [published erratum appears in AJR Am J Roentgenol 1997 Feb;168(2):459] Cho OK, et al. **AJR Am J Roentgenol** 1996 Nov;167(5):1163–7
Budd–Chiari syndrome resulting from intrahepatic IVC compression secondary to blunt hepatic trauma. Markert DJ, et al. **Clin Radiol** 1997 May;52(5):384–7
Percutaneous transhepatic hepatic venography in the delineation and treatment of Budd–Chiari syndrome. Wilson MW, et al. **J Vasc Interv Radiol** 1996 Jan–Feb; 7(1):133–8
Intersegmental attenuation difference on CT caused by partial Budd–Chiari syndrome secondary to hepatocellular carcinoma: report of two cases. Takayasu K, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):185–8

RADIONUCLIDE IMAGING

Budd–Chiari syndrome: diagnosis with ultrasound and nuclear medicine calcium colloid liver scan following non–diagnostic contrasted CT scan. Mulholland JP, et al. **Australas Radiol** 1997 Feb;41(1):53–6
Radionuclide inferior venocavagraphy in Budd–Chiari syndrome before and after angioplasty. Kao PF, et al. **Clin Nucl Med** 1997 Jul;22(7):485–7

SURGERY

Liver–kidney transplantation for Budd–Chiari syndrome. Ronk LL, et al. **AORN J** 1996 Aug;64(2):196–201, 203–6 (27 ref.)
Budd–Chiari syndrome: intractable ascites managed by a trans–hepatic portacaval shunt. Nicoll A, et al. **Australas Radiol** 1997 May;41(2):169–72
Budd–Chiari syndrome in pregnancy treated by caesarean section and liver transplant. Salha O, et al. **Br J Obstet Gynaecol** 1996 Dec;103(12):1254–6
Acute Budd–Chiari syndrome: treatment with transjugular intrahepatic portosystemic shunt. Strunk HM, et al. **Cardiovasc Intervent Radiol** 1997 Jul–Aug;20(4):311–3
Radical open endvenectomy with autologous pericardial patch graft for correction of Budd–Chiari syndrome. Koja K, et al. **Cardiovasc Surg** 1996 Aug;4(4):500–4
Acute Budd–Chiari syndrome treated by liver transplantation in a woman homozygous for factor V Leiden. Blanshard C, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):925–7
Alveolar echinococcosis of the liver: percutaneous stent therapy in Budd–Chiari syndrome. Vogel J, et al. **Gut** 1996 Nov;39(5):762–4
Membranous obstruction of the inferior vena cava and Budd–Chiari syndrome. Report of a case. Zamboni P, et al. **J Cardiovasc Surg (Torino)** 1996 Dec;37(6):583–7
Transjugular intrahepatic portosystemic shunt placement as a bridge to liver transplantation in fulminant Budd–Chiari syndrome [letter] Hastings GS, et al. **J Vasc Interv Radiol** 1996 Jul–Aug;7(4):616
Sterno–laparotomy and extracorporeal circulation for liver

transplantation after repeat-surgery for Budd-Chiari syndrome. Carrel T, et al.
Scand J Thorac Cardiovasc Surg 1996;30(2):49-51

[TIPSS in the Budd-Chiari syndrome with portal vein thrombosis] Nolte W, et al. **Dtsch Med Wochenschr** 1997 Jan 31;122(5):116-21 (25 ref.) (Eng. Abstr.) **(Ger)**

[Changes in liver perfusion caused by transjugular intrahepatic stent shunt (TIPSS)] Richter GM, et al.
Zentralbl Chir 1997;122(2):108-16 (Eng. Abstr.) **(Ger)**

THERAPY

Hepatic vein stenting for Budd-Chiari syndrome. Witte AM, et al. **Am J Gastroenterol** 1997 Mar;92(3):498-501

Interventional therapeutic techniques in Budd-Chiari syndrome. Bilbao JI, et al. **Cardiovasc Intervent Radiol** 1997 Mar-Apr;20(2):112-9

Radiological intervention in Budd-Chiari syndrome: techniques and outcome in 18 patients [see comments] Griffith JF, et al. **Clin Radiol** 1996 Nov;51(11):775-84. Comment in: Clin Radiol 1996 Nov;51(11):747-8.

Budd-Chiari syndrome [editorial; comment] Mitchell AW, et al. **Clin Radiol** 1996 Nov;51(11):747-8. Comment on: Clin Radiol 1996 Nov;51(11):775-84.

Poor prognosis and limited therapeutic options in patients with Budd-Chiari syndrome and portal venous system thrombosis. Mahmoud AE, et al.
Eur J Gastroenterol Hepatol 1997 May;9(5):485-9

Treatment of the Budd-Chiari syndrome by insertion of a wall-stent in the hepatic vein after percutaneous transluminal angioplasty: the necessity of follow-up. Weernink EE, et al. **Eur J Gastroenterol Hepatol** 1996 Jan; 8(1):85-8

Successful treatment by percutaneous balloon angioplasty of Budd-Chiari syndrome caused by membranous obstruction of inferior vena cava: 8-year follow-up study. Yang XL, et al. **J Am Coll Cardiol** 1996 Dec;28(7):1720-4

Management of idiopathic Budd-Chiari syndrome with primary stent placement: early results. Baijal SS, et al.
J Vasc Interv Radiol 1996 Jul-Aug;7(4):545-53

Percutaneous transhepatic hepatic venography in the delineation and treatment of Budd-Chiari syndrome. Wilson MW, et al. **J Vasc Interv Radiol** 1996 Jan-Feb; 7(1):133-8

ULTRASONOGRAPHY

Budd-Chiari syndrome: diagnosis with ultrasound and nuclear medicine calcium colloid liver scan following non-diagnostic contrasted CT scan. Mulholland JP, et al.
Australas Radiol 1997 Feb;41(1):53-6

HEPATIC VEINS

see related

LIVER CIRCULATION

Transjugular liver biopsy. An experience based on 500 procedures. Brenard R, et al. **Acta Gastroenterol Belg** 1997 Apr-Jun;60(2):138-41

Hepatic arteriography in patients with hepatocellular carcinoma under balloon occlusion of a hepatic vein draining the tumor-bearing liver parenchyma: useful for arterial infusion treatment? [letter; comment] Murata S, et al. **AJR Am J Roentgenol** 1996 Oct;167(4):1063-4. Comment on: AJR Am J Roentgenol 1995 Dec;165(6):1415-9.

Hepatic vein stenting for Budd-Chiari syndrome. Witte AM, et al. **Am J Gastroenterol** 1997 Mar;92(3):498-501

Intrahepatic metastases in hepatocellular carcinoma: the role of the portal vein as an efferent vessel. Mitsunobu M, et al. **Clin Exp Metastasis** 1996 Nov;14(6):520-9

The rupture of hepatic hydatid disease into the right hepatic vein and bile ducts: a case report. Coskun I, et al.
Hepatogastroenterology 1996 Jul-Aug;43(10):1006-8

Surgical approach to tumor thrombus of renal cell carcinoma at the level between hepatic vein and diaphragm. Isaka S, et al. **Int J Urol** 1997 Jan;4(1):13-6

Transhepatic venous access for diagnostic and interventional cardiovascular procedures. Wallace MJ, et al.
J Vasc Interv Radiol 1996 Jul-Aug;7(4):579-82

ABNORMALITIES

Primary Budd-Chiari syndrome due to complex venous anomalies. Sakamoto N, et al. **Abdom Imaging** 1997 Sep-Oct;22(5):499-501

Intrahepatic portal-hepatic venous shunts demonstrated by US, CT, and MR imaging. Kakitsubata Y, et al.
Acta Radiol 1996 Sep;37(5):680-4

Hepatic venous malformation after modified Fontan procedure with partial hepatic vein exclusion. Schneider DJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):1177-9

Intrahepatic portal tracts abnormalities associated with anomalous venous connections [letter; comment] Drut R, et al. **Pediatr Pathol Lab Med** 1997 Mar-Apr;17(2):331-2 . Comment on: Pediatr Pathol Lab Med 1995 Jan-Feb;15(1);39-50.

Agenesis of the ductus venosus and its correlation to hydrops fetalis and the fetal hepatic circulation: case reports and review of the literature [see comments] Sivén M, et al. **Pediatr Pathol Lab Med** 1995 Jan-Feb;15(1):39-50 (24 ref.) . Comment in: Pediatr Pathol Lab Med 1997 Mar-Apr;17(2):331-2.

Confluence of the right adrenal vein with the accessory right hepatic veins. A potential hazard in laparoscopic right adrenalectomy. MacGillivray DC, et al. **Surg Endosc** 1996 Nov;10(11):1095-6

Transportal approach for attenuating intrahepatic portosystemic shunts in dogs. Hunt GB, et al. **Vet Surg** 1996 Jul-Aug;25(4):300-8

[A resected case of intrahepatic porto-venous shunt in noncirrhotic liver] Namekata K, et al.
Nippon Shokakibyo Gakkai Zasshi 1996 Nov;93(11):851-6 **(Jpn)**

ANATOMY & HISTOLOGY

Three-dimensional reconstruction of the liver venous system using the preservation solution as contrast agent. Krssak M, et al. **J Magn Reson Imaging** 1997 May-Jun;7(3):600-2

A morphological and functional study of the cavo-hepatic junction in the human. Cavalcanti JS, et al.
Surg Radiol Anat 1995;17(4):311-4

Venous drainage of the dorsal sector of the liver: differences between segments I and IX. A study on corrosion casts of the human liver. Gadžijev EM, et al.
Surg Radiol Anat 1997;19(2):79-83

CHEMISTRY

Early detection of graft function using hepatic venous oxygen saturation in pig liver transplantation. Katsuramaki T, et al. **Transplantation** 1997 Jul 27;64(2):360-2

Evaluation of early graft function by hepatic venous hemoglobin oxygen saturation following orthotopic liver transplantation in the rat. Shimizu H, et al.
Transplantation 1996 Nov 27;62(10):1499-501

DRUG EFFECTS

Thromboxane A2 analogue contracts predominantly the hepatic veins in isolated canine liver. Urayama H, et al.
Prostaglandins 1996 Dec;52(6):483-95

EMBRYOLOGY

[The prenatal and postnatal anatomy of the duck of Arantius] Ostroverkhov GE, et al. **Arkh Anat Gistol Embriol** 1968 Nov;55(11):6-10 (Eng. Abstr.) **(Rus)**

GROWTH & DEVELOPMENT

[The prenatal and postnatal anatomy of the duck of Arantius] Ostroverkhov GE, et al. **Arkh Anat Gistol Embriol** 1968 Nov;55(11):6-10 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Altered serum cytokines in hepatic and portal blood of rats at early times following portal venous infusion of semi-allogeneic cells. Terzioglu E, et al. **Immunol Lett** 1996 Jan;49(1-2):31-6

INJURIES

Hepatic venous injury; a case report of atriocaval shunt by a centrifugal pump. Taga S, et al.
Hepatogastroenterology 1997 Jul-Aug;44(16):1219-21

Intrahepatic vascular clamping in complex hepatic vein injuries. Carrillo EH, et al. **J Trauma** 1997 Jul;43(1):131-3

Multimodality treatment for grade V hepatic injuries: perihepatic packing, arterial embolization, and venous stenting. Denton JR, et al. **J Trauma** 1997 May;42(5):964-7; discussion 967-8

The use of venovenous bypass and total vascular isolation of the liver in the surgical management of juxtahepatic venous injuries in blunt hepatic trauma. Rogers FB, et al. **J Trauma** 1997 Sep;43(3):530-3

METABOLISM

Latent development of cardiac tamponade heralded by a progressive fall in hepatic venous hemoglobin oxygen saturation [letter] Kainuma M, et al.
Intensive Care Med 1996 Nov;22(11):1277

PATHOLOGY

Balloon occlusion portography to diagnose new-onset left hepatic vein thrombosis and widening of an existing Wallstent TIPS by Palmaz stents for recurrent portal hypertension and variceal bleeding. Cope C, et al.
Cardiovasc Intervent Radiol 1996 Sep-Oct;19(5):368-70

Hepatic venous outflow block caused by short-length hepatic vein stenoses. Valla D, et al. **Hepatology** 1997 Apr; 25(4):814-9

Protein-losing enteropathy secondary to hepatic venous outflow obstruction after liver transplantation. Dousset B, et al. **J Hepatol** 1997 Jul;27(1):206-10

Transhepatic embolization of a portohepatic venous fistula. Stroz P, et al. **J Vasc Interv Radiol** 1996 Sep-Oct;7(5):705-7

Unusual spontaneous hepatic vein to paraumbilical vein shunt in a patient with Budd-Chiari syndrome and cirrhosis: a case report. Bloom AI, et al. **Liver** 1997 Aug;17(4):210-3

PHYSIOLOGY

Cavopulmonary shunt and pulmonary arteriovenous malformations [editorial; comment] Kawashima Y.
Ann Thorac Surg 1997 Apr;63(4):930-2. Comment on: Ann Thorac Surg 1997 Apr;63(4):960-3.

Arginine vasotocin relaxation of gar (Lepisosteous spp.) hepatic vein in vitro. Conklin DJ, et al.
Gen Comp Endocrinol 1996 Oct;104(1):52-60

Hyperdynamic circulation in patients with cirrhosis: direct measurement of nitric oxide levels in hepatic and portal veins. Battista S, et al. **J Hepatol** 1997 Jan;26(1):75-80

PHYSIOPATHOLOGY

Prognostic value of hepatic venous pressure gradient measurements in alcoholic cirrhosis: a 10-year prospective study. Vorobioff J, et al. **Gastroenterology** 1996 Sep; 111(3):701-9

Hepatic venous pressure measurement: an old test as a new prognostic marker in cirrhosis? Armonis A, et al.
Hepatology 1997 Jan;25(1):245-8 (52 ref.)

The hepatic venous pressure gradient: has the time arrived for its application in clinical practice? Groszmann RJ.
Hepatology 1996 Sep;24(3):739-41

Hepatic venous outflow block caused by short-length hepatic vein stenoses. Valla D, et al. **Hepatology** 1997 Apr; 25(4):814-9

RADIOGRAPHY

Pathologic and radiographic studies of intrahepatic metastasis in hepatocellular carcinoma; the role of efferent vessels. Toyosaka A, et al. **HPB Surg** 1996;10(2):97-103; discussion 103-4

Hepatic laceration from wedged hepatic venography before transjugular intrahepatic portosystemic shunt placement: one survivor [letter; comment] Kanterman RY.
J Vasc Interv Radiol 1996 Sep-Oct;7(5):776-7. Comment on: J Vasc Interv Radiol 1996 Jan-Feb;7(1):143-6.

Ultrasonography and angiographic examination of normal canine liver vessels. Mwanza T, et al. **Jpn J Vet Res** 1996 Dec;44(3):179-88

Transjugular intrahepatic portosystemic shunts: assessment with helical CT angiography. Chopra S, et al.
Radiology 1997 Jan;202(1):277-80

Intrahepatic portosystemic venous shunt: report of two cases assessed by helical computed tomography. Nagafuchi Y, et al. **Scand J Gastroenterol** 1996 Nov;31(11):1132-5

[Three-dimensional images of hepatic tumors and hepatic vessels obtained by helical computed tomography] Takeshita K, et al.
Nippon Igaku Hoshasen Gakkai Zasshi 1996 Sep; 56(11):744-6 (Eng. Abstr.) **(Jpn)**

SURGERY

Direct hepatic vein anastomosis during hepatectomy for colorectal liver metastases. Nakamura S, et al.
Am J Surg 1997 Sep;174(3):331-3

Vascular endostapler as aid to hepatic vein control during hepatic resections. Ramacciato G, et al. **Am J Surg** 1996 Oct;172(4):358-62

Pulmonary AV malformations after superior cavopulmonary connection: resolution after inclusion of hepatic veins in the pulmonary circulation [see comments] Shah MJ, et al. **Ann Thorac Surg** 1997 Apr;63(4):960-3. Comment in: Ann Thorac Surg 1997 Apr;63(4):930-2.

Radical open endvenectomy with autologous pericardial patch graft for correction of Budd-Chiari syndrome. Koja K, et al. **Cardiovasc Surg** 1996 Aug;4(4):500-4

Alveolar echinococcosis of the liver: percutaneous stent therapy in Budd-Chiari syndrome. Vogel J, et al. **Gut** 1996 Nov;39(5):762-4

Stapler technique for extrahepatic vascular control during hepatic resection. Scudamore CH, et al. **J Invest Surg** 1997 Jan-Apr;10(1-2):59-61 (7 ref.)

The use of venovenous bypass and total vascular isolation of the liver in the surgical management of juxtahepatic venous injuries in blunt hepatic trauma. Rogers FB, et al. **J Trauma** 1997 Sep;43(3):530-3

Anterior approach to dorsal short hepatic and right hepatic veins in a right hepatic lobectomy. Shimahara Y, et al.
Nippon Geka Hokan 1996 Jan 1;65(1):13-21

Hepatic vein reconstruction in 152 living-related donor liver transplantation patients. Egawa H, et al. **Surgery** 1997 Mar; 121(3):250-7

Hepato-venous outflow complications following orthotopic liver transplantation with various techniques for hepato-venous reconstruction in adults and children. Hesse UJ, et al. **Transpl Int** 1996;9 Suppl 1:S182-4

TRANSPLANTATION

Portal vein replacement by hepatic vein transposition. Lorf T, et al. **Am J Surg** 1997 Sep;174(3):353-4

Reconstruction of the inferior vena cava using a hepatic venous patch obtained from resected liver. Kubota K, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):378-9

ULTRASONOGRAPHY

Effects of right ventricular pacing on ventriculoatrial conduction and systemic venous responses in sick sinus patients. Kong CW, et al. **Angiology** 1996 Oct;47(10):973-80

Hepatic vein Doppler waveform changes in early stage (Child-Pugh A) chronic parenchymal liver disease. Arda K, et al. **J Clin Ultrasound** 1997 Jan;25(1):15-9

Variations of the middle and inferior right hepatic vein: application in hepatectomy. Cheng YF, et al.
J Clin Ultrasound 1997 May;25(4):175-82

Ultrasonography and angiographic examination of normal

canine liver vessels. Mwanza T, et al. **Jpn J Vet Res** 1996 Dec;44(3):179–88

Right heart failure: diagnosis via ultrasonography of the inferior vena cava and hepatic veins. Goei R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jan;166(1):36–9

[Doppler ultrasound of blood flow in the hepatic veins] Andersen K. **Tidsskr Nor Laegeforen** 1997 Apr 10; 117(9):1296–8 (32 ref.) (Eng. Abstr.) **(Nor)**

HEPATIC VENO-OCCLUSIVE DISEASE

see related

HEPATIC VEIN THROMBOSIS

Ultrasound in the management of hepatic veno-occlusive disease in three children treated with dactinomycin and vincristine. Schiavetti A, et al. **Pediatr Hematol Oncol** 1996 Nov–Dec;13(6):521–9

Hepatic venous outflow obstruction—where east meets west [editorial; comment] Pande GK. **Trop Gastroenterol** 1996 Jul–Sep;17(3):151–2. Comment on: Trop Gastroenterol 1996 Jul–Sep;17(3):165–71.

BLOOD

Plasminogen activator inhibitor-1 confirms the diagnosis of hepatic veno-occlusive disease in patients with hyperbilirubinemia after bone marrow transplantation. Salat C, et al. **Blood** 1997 Mar 15;89(6):2184–8

Changes in hemostatic parameters in hepatic veno-occlusive disease following bone marrow transplantation. Park YD, et al. **Bone Marrow Transplant** 1997 May;19(9):915–20

Laboratory markers of veno-occlusive disease in the course of bone marrow and subsequent liver transplantation. Salat C, et al. **Bone Marrow Transplant** 1997 Mar;19(5):487–90

Serum tumor necrosis factor for monitoring response of hepatic veno-occlusive disease to pentoxiphyllin—a case report. Parikh PM, et al. **Cancer Invest** 1997;15(4):326–8

Increased ratio of thromboxane B2 and 6-keto PGF1 alpha in patients of hepatic venous outflow obstruction [letter] Dayal S, et al. **Eur J Haematol** 1996 Oct;57(4):328–9

Serum thrombopoietin level after allogeneic bone marrow transplantation: possible correlations with platelet recovery, acute graft-versus-host disease and hepatic veno-occlusive disease. Nagoya Bone Marrow Transplantation Group. Hamaguchi M, et al. **Int J Hematol** 1996 Oct;64(3–4):241–8

CHEMICALLY INDUCED

Hepatic dysfunction following busulfan and cyclophosphamide myeloablation: a retrospective, multicenter analysis. Styler MJ, et al. **Bone Marrow Transplant** 1996 Jul;18(1):171–6

Venoocclusive disease of the liver after chemotherapy with vincristine, actinomycin D, and cyclophosphamide for the treatment of rhabdomyosarcoma. A report of the Intergroup Rhabdomyosarcoma Study Group. Childrens Cancer Group, the Pediatric Oncology Group, and the Pediatric Intergroup Statistical Center. Ortega JA, et al. **Cancer** 1997 Jun 15;79(12):2435–9

Hepatic veno-occlusive disease in Wilms' tumor. Kullendorff CM, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):338–40

Azathioprine-induced hepatic veno-occlusive disease in a renal transplant recipient: histological regression following azathioprine withdrawal [letter] Kohli HS, et al. **Nephrol Dial Transplant** 1996 Aug;11(8):1671–2

[Hepatic veno-occlusive disease—simulating acute abdomen in chemotherapy of Wilms' tumors] Tröbs RB, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1112–4 (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Veno-occlusive disease in hypereosinophilic syndrome. Kojima K, et al. **Intern Med** 1995 Dec;34(12):1194–7

DIAGNOSIS

Fatal hepatic veno-occlusive disease in a newborn infant. Seibold-Weiger K, et al. **Am J Perinatol** 1997 Feb; 14(2):107–11

Plasminogen activator inhibitor-1 confirms the diagnosis of hepatic veno-occlusive disease in patients with hyperbilirubinemia after bone marrow transplantation. Salat C, et al. **Blood** 1997 Mar 15;89(6):2184–8

Vascular diseases and MR angiography of the liver. Spritzer CE. **Magn Reson Imaging Clin N Am** 1997 May;5(2):377–96 (66 ref.)

DRUG THERAPY

Treatment of hepatic venocclusive disease with recombinant human tissue plasminogen activator and heparin in 42 marrow transplant patients. Bearman SI, et al. **Blood** 1997 Mar 1;89(5):1501–6

Treatment of hepatic veno-occlusive disease with low-dose tissue plasminogen activator: impact on coagulation profile. Goldberg SL, et al. **Bone Marrow Transplant** 1996 Sep; 18(3):633–6

High-dose, continuous r-TPA infusion for treatment of VOD [letter] Graphakos S, et al. **Bone Marrow Transplant** 1996 Nov;18(5):1026–8

Management of hepatic veno-occlusive disease (VOD) in pediatric patients: retrospective analysis in 6 AIEOP-BMT (Italian Pediatric Hematology Oncology Association-Bone Marrow Transplantation Group) Centers. Miniero R, et al. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:157–9

Serum tumor necrosis factor for monitoring response of hepatic veno-occlusive disease to pentoxiphyllin—a case report. Parikh PM, et al. **Cancer Invest** 1997;15(4):326–8

Veno-occlusive disease (VOD) of the liver in Korean patients following allogeneic bone marrow transplantation (BMT): efficacy of recombinant human tissue plasminogen activator (rt-PA) treatment. Lee JH, et al. **J Korean Med Sci** 1996 Apr;11(2):118–26

Venocclusive disease of the liver after bone marrow transplantation: the role of hemostasis. Faioni EM, et al. **Leuk Lymphoma** 1997 Apr;25(3–4):233–45 (69 ref.)

EPIDEMIOLOGY

Venocclusive disease of the liver after bone marrow transplantation: the role of hemostasis. Faioni EM, et al. **Leuk Lymphoma** 1997 Apr;25(3–4):233–45 (69 ref.)

Hepatic venous outflow obstruction in Nepal [see comments] Shrestha SM. **Trop Gastroenterol** 1996 Jul–Sep;17(3):165–71 . Comment in: Trop Gastroenterol 1996 Jul–Sep;17(3):151–21.

ETIOLOGY

Intra-abdominal Sengstaken-Blakemore tube placement for acute venous outflow obstruction in reduced-size liver transplantation. Malassagne B, et al. **Br J Surg** 1996 Aug; 83(8):1086

Transjugular intrahepatic portosystemic shunt for the management of severe venoocclusive disease following bone marrow transplantation. Fried MW, et al. **Hepatology** 1996 Sep;24(3):588–91

Membranous obstruction of the inferior vena cava in a patient with factor V Leiden: evidence for a post-thrombotic aetiology. Blanshard C, et al. **J Hepatol** 1997 Mar; 26(3):731–5

Veno-occlusive disease of the liver in children treated for Wilms tumor. Bisogno G, et al. **Med Pediatr Oncol** 1997 Oct;29(4):245–51

Hepatic veno-occlusive disease after myeloablative treatment and bone marrow transplantation: value of gray-scale and Doppler US in 100 patients. Lassau N, et al. **Radiology** 1997 Aug;204(2):545–52

Orthotopic liver transplantation for veno-occlusive disease complicating autologous bone marrow transplantation. Norris S, et al. **Transplantation** 1997 May 27;63(10):1521–4

METABOLISM

The safety of total hepatic vascular occlusion in rabbits with acute extrahepatic cholestasis. Ersöz S, et al. **Eur Surg Res** 1996;28(2):104–110

MORTALITY

Veno-occlusive disease of the liver following bone marrow transplantation: a clinical-pathological study of autopsy cases. Watanabe K, et al. **Artif Organs** 1996 Oct; 20(10):1145–50

PATHOLOGY

Experimental acute hepatic vein occlusion: histological observations in the rat. Manenti A, et al. **Pathologica** 1995 Oct;87(5):522–4

PREVENTION & CONTROL

Phase II trial of heparin prophylaxis for veno-occlusive disease of the liver in children undergoing bone marrow transplantation. Rosenthal J, et al. **Bone Marrow Transplant** 1996 Jul;18(1):185–91

[Veno-occlusive disease after bone marrow transplantation: preventive effect of heparin] Parquet N, et al. **Ann Med Interne (Paris)** 1997;148(2):132–5 (15 ref.) (Eng. Abstr.) **(Fre)**

SURGERY

Successful treatment of hepatic veno-occlusive disease in a peripheral blood progenitor cell transplant patient with a transjugular intrahepatic portosystemic stent-shunt (TIPS). de la Rubia J, et al. **Haematologica** 1996 Nov–Dec; 81(6):536–9

Transjugular intrahepatic portosystemic shunt for the management of severe venoocclusive disease following bone marrow transplantation. Fried MW, et al. **Hepatology** 1996 Sep;24(3):588–91

Orthotopic liver transplantation for veno-occlusive disease complicating autologous bone marrow transplantation. Norris S, et al. **Transplantation** 1997 May 27;63(10):1521–4

THERAPY

Recombinant human tissue plasminogen activator for the treatment of severe hepatic veno-occlusive disease in pediatric bone marrow transplant patients. Leahey AM, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1101–4

Successful treatment of severe hepatic veno-occlusive disease after allogeneic bone marrow transplantation by transjugular intrahepatic portosystemic stent-shunt (TIPS). Lévy V, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):443–45

Transjugular intrahepatic portosystemic shunting (TIPS) for treatment of severe hepatic veno-occlusive disease. Smith FO, et al. **Bone Marrow Transplant** 1996 Sep;18(3):643–6

A study of inferior vena cava obstruction. Kar AK, et al. **J Assoc Physicians India** 1996 Jul;44(7):465–7

Treatment of hepatic venoocclusive disease with recombinant human tissue plasminogen activator or orthotopic liver transplantation after allogeneic bone marrow transplantation. Hägglund H, et al. **Transplantation** 1996 Oct 27;62(8):1076–80

ULTRASONOGRAPHY

Hepatic veno-occlusive disease after myeloablative treatment and bone marrow transplantation: value of gray-scale and Doppler US in 100 patients. Lassau N, et al. **Radiology** 1997 Aug;204(2):545–52

HEPATICOLA HEPATICA see **CAPILLARIA**

HEPATITIS

Nonalcoholic steatohepatitis [see comments] Sheth SG, et al. **Ann Intern Med** 1997 Jan 15;126(2):137–45 (85 ref.). Comment in: Ann Intern Med 1997 Sep 1;127(5):410–1. Comment in: Ann Intern Med 1997 Sep 1;127(5):411.

Hepatitis viruses infections in bone marrow transplantation. Locasciulli A. **Bone Marrow Transplant** 1996 Nov;18 Suppl 2:115–6 (6 ref.)

Autoimmune hepatitis in childhood: a 20-year experience. Gregorio GV, et al. **Hepatology** 1997 Mar;25(3):541–7

Review: nonalcoholic steatohepatitis. Ludwig J, et al. **J Gastroenterol Hepatol** 1997 May;12(5):398–403 (55 ref.)

Autoimmune hepatitis. Definition—classification—histopathology—immunopathogenesis. Meyer zum Büschenfelde KH, et al. **Virchows Arch** 1996 Sep;429(1):1–12 (117 ref.)

BLOOD

Serum levels and in situ expression of TNF-alpha and TNF-alpha binding proteins in inflammatory liver diseases. Spengler U, et al. **Cytokine** 1996 Nov;8(11):864–72

Hepatocyte growth factor and acute phase proteins in patients with chronic liver diseases. Shiota G, et al. **J Med** 1995;26(5–6):295–308

[Changes in the polymorphism and concentrations of components of the class II complement after orthotopic transplantation of the liver] Uring-Lambert B, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):976–9 (Eng. Abstr.) **(Fre)**

[Fatty liver hepatitis (letter; comment)] Seidler D. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):802–3. Comment on: Dtsch Med Wochenschr 1997 Jan 31;122(5):140. **(Ger)**

CHEMICALLY INDUCED see HEPATITIS, TOXIC

CLASSIFICATION

[Evaluation of the new international classification of chronic hepatitis] Serov VV. **Arkh Patol** 1996 Jan–Feb;58(1):3–5 (Eng. Abstr.) **(Rus)**

COMPLICATIONS

Keratosis lichenoides chronica with chronic hepatitis: a coincidence? [letter] Marschalkó M, et al. **Acta Derm Venereol** 1996 Sep;76(5):401–2

Significant influence of accompanying chronic hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy. Result of multivariate analysis [see comments] Ko S, et al. **Ann Surg** 1996 Nov;224(5):591–5 . Comment in: Ann Surg 1996 Nov;224(5):596–7.

Influence of accompanying chronic hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy [editorial; comment] Russell PS. **Ann Surg** 1996 Nov; 224(5):596–7. Comment on: Ann Surg 1996 Nov;224(5):591–5.

Mycoplasma infection and Kawasaki disease [letter] Leen C, et al. **Arch Dis Child** 1996 Sep;75(3):266–7

In vivo CAMPATH-1 followed by T cell-depleted bone marrow transplantation: a potential new mode of therapy for hepatitis-associated severe aplastic anemia (SAA). Nagler A, et al. **Bone Marrow Transplant** 1996 Aug; 18(2):475–8

Prediction of postoperative decompensated liver function by technetium-99m galactosyl-human serum albumin liver scintigraphy in patients with hepatocellular carcinoma complicating chronic liver disease. Kim YK, et al. **Br J Surg** 1997 Jun;84(6):793–6

Scar sarcoidosis associated with vitiligo, autoimmune thyroiditis and autoimmune chronic hepatitis [letter] Marzano AV, et al. **Clin Exp Dermatol** 1996 Nov; 21(6):466–7

Sjögren's syndrome associated with autoimmune hepatitis. A case report. Biasi D, et al. **Clin Rheumatol** 1997 Jun; 16(4):409–12

Hepatitis and cholestasis in a middle-aged woman [clinical conference] Perrillo RP, et al. **Hepatology** 1996 Sep; 24(3):730–4

The relationship of hepatitis history and pathological diagnosis of primary liver cancer. Zhu K, et al. **J Clin Epidemiol** 1997 Mar;50(3):297–301

Celiac sprue, idiopathic thrombocytopenic purpura, and hepatic granulomatous disease. An autoimmune linkage? Kahn O, et al. **J Clin Gastroenterol** 1996 Oct;23(3):214–6

Hepatitis C and bile duct loss. Goldin RD, et al. **J Clin Pathol** 1996 Oct;49(10):836–8

Prolonged intrahepatic cholestasis in acute-onset, severe autoimmune hepatitis. Motoo Y, et al. **J Gastroenterol** 1997 Jun;32(3):410–3

Autoimmune hepatitis type 2 and hepatitis C virus infection: study of HLA antigens. Jurado A, et al. **J Hepatol** 1997 May;26(5):983–91

Comparison of serum 7S fragment of type IV collagen and serum central triple-helix of type IV collagen for assessment of liver fibrosis in patients with chronic viral liver disease. Murawaki Y, et al. **J Hepatol** 1996 Feb; 24(2):148–54

Typhoid hepatitis. Durrani AB. **JPMA J Pak Med Assoc** 1995 Dec;45(12):317–8

Idiopathic granulomatous hepatitis manifested with fever of unknown origin. Lee YH, et al. **Korean J Intern Med** 1996 Jun;11(2):161–4

Hepatitis-associated aplastic anemia [see comments] Brown KE, et al. **N Engl J Med** 1997 Apr 10;336(15):1059–64. Comment in: N Engl J Med 1997 Aug 7;337(6):424–5.

Autoimmune interstitial nephritis and hepatitis in polyglandular autoimmune syndrome. Hannigan NR, et al. **Pediatr Nephrol** 1996 Aug;10(4):511–4

Hepatocellular carcinoma following neonatal hepatitis. Moore L, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug; 17(4):601–10

Type 2 autoimmune hepatitis and hepatitis C viraemia. Leri O, et al. **Riv Eur Sci Med Farmacol** 1996 Jan–Feb;18(1):3–6

[Giant cell hepatitis and autoimmune hemolytic anemia: efficacy of splenectomy on hemolysis] Choulot JJ, et al. **Arch Pediatr** 1996 Aug;3(8):789–91 (Eng. Abstr.) **(Fre)**

[Fulminant hepatitis in children] Durand P, et al. **Presse Med** 1996 Oct 19;25(31):1501–6 (19 ref.) (Eng. Abstr.) **(Fre)**

[Sensory neuronopathy associated with chronic autoimmune hepatitis (letter)] Magy L, et al. **Rev Neurol (Paris)** 1997 Feb;155(1):70–2 **(Fre)**

[Surgical approach to posthepatitic cirrhotic patient today] Meriggi F, et al. **G Chir** 1996 Jun–Jul;17(6–7):370–8 (68 ref.) (Eng. Abstr.) **(Ita)**

[An autopsy case of anti-neutrophil cytoplasmic antibodies associated vasculitis accompanied by autoimmune hepatitis and hepatocellular carcinoma] Suwa A, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Apr;20(2):117–25 (Eng. Abstr.) **(Jpn)**

[Acute hepatitis, fulminant hepatitis, and jaundice] Yoshiba M. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):544–50 (5 ref.) **(Jpn)**

[A case of double cancer, cholangiocellular and hepatocellular carcinoma associated with autoimmune hepatitis] Kanemasa H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):915–20 **(Jpn)**

[A case of hepatocellular carcinoma associated with autoimmune hepatitis and increased scintigraphy of liver accumulation] Niki S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):220–4 **(Jpn)**

[Non-alcoholic steatohepatitis: a controversial cause of liver cirrhosis (letter)] Guilarte López-Mañas J, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):217 **(Spa)**

[Associated autoimmune hepatitis and chronic hepatitis C virus infection: diagnostic and therapeutic criteria (letter)] Rodrigo Sáez L, et al. **Gastroenterol Hepatol** 1997 Jan; 20(1):43–4 **(Spa)**

CONGENITAL

Hepatocellular carcinoma following neonatal hepatitis. Moore L, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug; 17(4):601–10

[Isolated congenital growth hormone deficiency. Severe hypoglycemia and neonatal giant cell hepatitis] Esberg BH, et al. **Ugeskr Laeger** 1996 Nov 4;158(45):6467–9 (Eng. Abstr.) **(Dan)**

DIAGNOSIS

Hepatic manifestation of malignant histiocytosis: a case study. Chow WC, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):804–7 (9 ref.)

Nonalcoholic steatohepatitis [letter; comment] Kirsch M. **Ann Intern Med** 1997 Sep 1;127(5):411. Comment on: Ann Intern Med 1997 Jan 15;126(2):137–45.

Nonalcoholic steatohepatitis [letter; comment] Moseley RH. **Ann Intern Med** 1997 Sep 1;127(5):410–1. Comment on: Ann Intern Med 1997 Jan 15;126(2):137–45.

Nonalcoholic steatohepatitis [letter; comment] Walker JM. **Ann Intern Med** 1997 Sep 1;127(5):411. Comment on: Ann Intern Med 1997 Jan 15;126(2):137–45.

Lupus or lupoid hepatitis with mesenteric vasculitis [clinical conference] Turner HE, et al. **Br J Rheumatol** 1996 Dec; 35(12):1309–11

Lupus-like autoimmune acute hepatitis: report of one case. Lee JY, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov–Dec;37(6):461–5

Primary hepatic non-Hodgkin's lymphoma manifested initially as acute hepatitis [letter] Smith MS, et al. **Diagn Cytopathol** 1996 Mar;14(2):191–3

Hepatitis. Bondesson JD, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):695–718 (112 ref.)

Is non-alcoholic steatohepatitis another facet of the bright liver syndrome? [letter; comment] Lonardo A. **Ital J Gastroenterol** 1996 Apr;28(3):187. Comment on: Ital J Gastroenterol 1995 Sep;27(7):363–5.

Ischemic hepatitis: the need for precise criteria [letter; comment] Henrion J, et al. **J Clin Gastroenterol** 1996 Dec; 23(4):305. Comment on: J Clin Gastroenterol 1996 Mar;22(2):126–30.

Establishment of a novel radioligand assay using eukaryotically expressed cytochrome P4502D6 for the measurement of liver kidney microsomal type 1 antibody in patients with autoimmune hepatitis and hepatitis C virus infection. Ma Y, et al. **J Hepatol** 1997 Jun;26(6):1396–402

Case records of the Department of Medicine University of Mississippi Medical Center. Chronic active hepatitis with cirrhosis of liver secondary to alpha-1 antitrypsin deficiency [clinical conference] Daly EF 3rd, et al. **J Miss State Med Assoc** 1997 May;38(5):161–7

Hepatitis in a patient with SLE: is it autoimmune hepatitis? Kooy A, et al. **Neth J Med** 1996 Apr;48(4):128–32

Type I autoimmune hepatitis is primarily a disease of later life. Parker DR, et al. **QJM** 1997 Apr;90(4):289–96

Assessing the eligibility for liver transplantation of patients with fulminant hepatitis. Uetsuji S, et al. **Surg Today** 1997; 27(2):186–8

Anti asialoglycoprotein receptor antibodies and soluble interleukin-2 receptor levels as marker for inflammation in autoimmune hepatitis. Dejica D, et al. **Z Gastroenterol** 1997 Jan;35(1):15–21

Autoimmune hepatitis in inflammatory bowel disease: report of two unusual cases. Seibold F, et al. **Z Gastroenterol** 1997 Jan;35(1):29–32

[Inflammatory pseudotumor of the liver] Cardot F, et al. **Ann Med Interne (Paris)** 1997;148(3):285–7 **(Fre)**

[Fatty liver hepatitis (see comments)] Leiss O. **Dtsch Med Wochenschr** 1997 Jan 31;122(5):140. Comment in: Dtsch Med Wochenschr 1997 Jun 13;122(24):802–3. **(Ger)**

[Diagnosis of autoimmune hepatitis] Manns MP, et al. **Dtsch Med Wochenschr** 1996 Nov 29;121(48):1503–7 (26 ref.) **(Ger)**

[Current diagnosis of chronic nonviral hepatitis] Maier KP. **Schweiz Rundsch Med Prax** 1996 Nov 19;85(47):1507–12 (Eng. Abstr.) **(Ger)**

[The new approaches to diagnosis, treatment and expertise of chronic hepatitis in pilot personnel] Preobrzhenskii VN, et al. **Aviakosm Ekolog Med** 1996;30(6):46–50 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Ribavirin conjugated with lactosaminated poly-L-lysine: selective delivery to the liver and increased antiviral activity in mice with viral hepatitis. Di Stefano G, et al. **Biochem Pharmacol** 1997 Aug 1;54(3):357–63

IUPHAR GI section conference: New approaches to pharmacotherapy for hepatic and gastrointestinal inflammatory and ulcerative disorders. Sperlonga, Italy, September 3–7, 1996. Abstracts. **Dig Dis Sci** 1997 Jan; 42(1):195–221

Azathioprine and 6-mercaptopurine and autoimmune hepatitis [letter] Yarze JC, et al. **Gastroenterology** 1996 Jun; 110(6):2027

Subfulminant syncytial giant cell hepatitis: recurrence after liver transplantation treated with ribavirin. Durand F, et al. **J Hepatol** 1997 Mar;26(3):722–6

Effectiveness of bovine gallstone (Goou) and bear gall powder (Yutan) on chronic liver diseases: a preliminary report. Matsumoto N, et al. **Tokai J Exp Clin Med** 1995 May;20(1):9–16

Autoimmune hepatitis in children. Raghuveera AL, et al. **W V Med J** 1996 Nov–Dec;92(6):316–9

[Autoimmune hepatitis treated with cyclosporin revealed by acute hepatocellular failure] Launay V, et al. **Arch Pediatr** 1997 Jan;4(1):40–3 (Eng. Abstr.) **(Fre)**

[Current approaches to using beta-carotenoids in chronic hepatitis in flight personnel] Preobrazhenskiĭ VN, et al. **Aviakosm Ekolog Med** 1996;30(3):45–6 (Eng. Abstr.) **(Rus)**

[Autoimmune hepatitis: when should treatment be discontinued?] Marín López E, et al. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S76–81 **(Spa)**

EPIDEMIOLOGY

Combined oral contraceptives and liver disease. Hannaford PC, et al. **Contraception** 1997 Mar;55(3):145–51

Prevalence study of different hepatitis markers among pregnant Albanian refugees in Greece. Malamitsi-Puchner A, et al. **Eur J Epidemiol** 1996 Jun;12(3):297–301

Study of the association between waterborne diseases and microbial water quality in Israel. Elkana Y, et al. **Public Health Rev** 1996;24(1):49–63

Hepatitis virus infections in spouses of blood donors [letter; comment] Zimmermann R, et al. **Vox Sang** 1996; 71(3):189–90. Comment on: Vox Sang 1996;70(2):112–3.

ETIOLOGY

Erythema nodosum and acute Q fever: report of a case with granulomatous hepatitis and immunological abnormalities [letter] Vázquez-López F, et al. **Acta Derm Venereol** 1997 Jan;77(1):73–4

Relationship of feeding modality to clinical features in Japanese infants with idiopathic neonatal hepatitis of the non-familial form. Tazawa Y, et al. **Acta Paediatr Jpn** 1996 Aug;38(4):328–33

Autoimmune hepatitis type 1 after measles. Vento S, et al. **Am J Gastroenterol** 1996 Dec;91(12):2618–20

Nonalcoholic steatohepatitis [letter; comment] Akpunonu BE, et al. **Ann Intern Med** 1997 Sep 1;127(5):410; discussion 411. Comment on: Ann Intern Med 1997 Jan 15;126(2):137–45.

Shark cartilage-induced hepatitis [letter] Ashar B, et al. **Ann Intern Med** 1996 Nov 1;125(9):780–1

Ischemic hepatitis associated with toxic epidermal necrolysis in a cirrhotic patient treated with cefuroxime. Yossepowitch O, et al. **Eur J Med Res** 1997 Apr 21; 2(4):182–4

Typhoid hepatitis: report of two cases. Sharma V, et al. **Indian J Med Sci** 1995 Jul;49(7):157–8

Hepatitis B virus carrier status linked to autoimmune hepatitis. Murakami C, et al. **Intern Med** 1996 Jun; 35(6):468–71

Minocycline-related lupus erythematosus with associated liver disease. Crosson J, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):867–8

Disseminated intravascular coagulation associated with acute ischemic hepatitis after elective aortic aneurysm repair: comparative analysis of 10 cases. Levy PJ, et al. **J Cardiothorac Vasc Anesth** 1997 Apr;11(2):141–8

Hypoxic hepatitis caused by severe hypoxemia from obstructive sleep apnea. Henrion J, et al. **J Clin Gastroenterol** 1997 Jun;24(4):245–9

Subfulminant syncytial giant cell hepatitis: recurrence after liver transplantation treated with ribavirin. Durand F, et al. **J Hepatol** 1997 Mar;26(3):722–6

Hepatitis C virus infection and related liver disease in children of mothers with antibodies to the virus [see comments] Bortolotti F, et al. **J Pediatr** 1997 Jun; 130(6):990–3. Comment in: J Pediatr 1997 Jun;130(6):859–61.

Autoimmune hepatitis and adrenal insufficiency in an infant with human herpesvirus-6 infection [letter] Schmitt K, et al. **Lancet** 1996 Oct 5;348(9032):966

Sarcoidosis [letter] Piagnerelli M, et al. **N Engl J Med** 1997 Sep 11;337(11):789–90; discussion 791

A jaundiced look at the management of hepatitis? [editorial; comment] Hift RJ, et al. **S Afr Med J** 1997 Jul;87(7):865–6 . Comment on: S Afr Med J 1997 Jul;87(7):882–5.

Visceral leishmaniasis presenting as autoimmune hepatitis in a two years old boy. Castagnola E, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):28

Clinical hepatitis after transplantation of hepatitis C virus-positive kidneys: HLA-DR3 as a risk factor for the development of posttransplant hepatitis. Kirk AD, et al. **Transplantation** 1996 Dec 27;62(12):1758–62

[Acute uremic pericarditis presented as cardiac tamponade with acute ischemic hepatitis: a case report] Chen MW, et al. **Chang Keng I Hsueh** 1996 Dec;19(4):392–6 (Eng. Abstr.) **(Chi)**

[Perihepatitis and strong lupus anticoagulant. Apropos of a case (letter)] Swiader L, et al. **Rev Med Interne** 1997 Jul; 18(7):584–5 **(Fre)**

[Acute hepatitis as the leading symptom of secondary syphilis] Gschwantler M, et al. **Dtsch Med Wochenschr** 1996 Nov 22;121(47):1457–61 (Eng. Abstr.) **(Ger)**

[Ischemic hepatitis in congestive heart failure after an episode of hypotension] Shovman O, et al. **Harefuah** 1997 Apr 1; 132(7):459–60, 527 (Eng. Abstr.) **(Heb)**

[Two cases of Basedow disease complicated by acute hepatitis] Satoh H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jun;94(6):424–8 **(Jpn)**

GENETICS

Mosaic trisomy 14 with hepatic involvement. Iglesias A, et al. **Ann Genet** 1997;40(2):104–8

Allelic basis for HLA-encoded susceptibility to type 1 autoimmune hepatitis. Strettell MD, et al. **Gastroenterology** 1997 Jun;112(6):2028–35

Associations between alleles of the major histocompatibility complex and type 1 autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1997 Feb;25(2):317–23

HLA-C genes and susceptibility to type 1 autoimmune hepatitis. Strettell MD, et al. **Hepatology** 1997 Oct; 26(4):1023–6

IMMUNOLOGY

Autoimmune hepatitis after cytomegalovirus infection in a bone marrow-transplanted patient [letter] Kamisato T, et al. **Am J Gastroenterol** 1997 Jul;92(7):1238–9

Antibodies to the chlamydial 60 kd heat-shock protein are associated with laparoscopically confirmed perihepatitis. Money DM, et al. **Am J Obstet Gynecol** 1997 Apr; 176(4):870–7

Autoimmune hepatitis. Vergani D, et al.

Ann Ital Med Int 1996 Apr–Jun;11(2):119–24 (50 ref.)

Cytochromes P450 and UDP–glucuronosyl–transferases as hepatocellular autoantigens. Obermayer–Straub P, et al. **Baillieres Clin Gastroenterol** 1996 Sep;10(3):501–32 (139 ref.)

A new approach to cytochrome CYP2D6 antibody detection in autoimmune hepatitis type–2 (AIH–2) and chronic hepatitis C virus (HCV) infection: a sensitive and quantitative radioligand assay. Yamamoto AM, et al. **Clin Exp Immunol** 1997 Jun;108(3):396–400

Experimental hepatitis in neonatally thymectomized mice: transfer of disease and the role of T cells. Kamiyasu M, et al. **Clin Immunol Immunopathol** 1997 Jun;83(3):302–9

Antinuclear antibodies and patterns of nuclear immunofluorescence in type 1 autoimmune hepatitis. Czaja AJ, et al. **Dig Dis Sci** 1997 Aug;42(8):1688–96

Characterization of target antigens from anti–neutrophil cytoplasmic antibodies in autoimmune hepatitis type–I. Kellner R, et al. **Electrophoresis** 1997 Mar–Apr; 18(3–4):507–10

Simultaneously found transient hypothyroidism due to Hashimoto's thyroiditis, autoimmune hepatitis and isolated ACTH deficiency after cessation of glucocorticoid administration. Nagai Y, et al. **Endocr J** 1997 Jun; 44(3):453–8

Antibodies to carbonic anhydrase in autoimmune cholangiopathy [letter; comment] Muratori P, et al. **Gastroenterology** 1997 Mar;112(3):1053–4. Comment on: Gastroenterology 1995 Jun;108(6):1802–9.

Fas/Apo1 mutations and autoimmune lymphoproliferative syndrome in a patient with type 2 autoimmune hepatitis. Pensati L, et al. **Gastroenterology** 1997 Oct;113(4):1384–9

A comparison of the prevalence of autoantibodies in individuals with chronic hepatitis C and those with autoimmune hepatitis: the role of interferon in the development of autoimmune diseases. Bayraktar Y, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):417–25

Hepatitis C and the controversies it creates relative to liver transplantation and autoimmune hepatitis. Bayraktar Y, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):873–81 (56 ref.)

Clinical features of serologically non–B non–C chronic liver disease. Ohana M, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):215–20

Serum autoantibodies in chronic hepatitis C: comparison with autoimmune hepatitis and impact on the disease profile. Cassani F, et al. **Hepatology** 1997 Sep;26(3):561–6

Antibodies to single–stranded and double–stranded DNA in antinuclear antibody–positive type 1–autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1997 Sep;26(3):567–72

Frequency and significance of antibodies to actin in type 1 autoimmune hepatitis. Czaja AJ, et al. **Hepatology** 1996 Nov;24(5):1068–73

Autoreactive CD4+ LKM–specific and anticlonotypic T–cell responses in LKM–1 antibody–positive autoimmune hepatitis. Löhr HF, et al. **Hepatology** 1996 Dec; 24(6):1416–21

Clonotypic analysis of T cells in patients with autoimmune and viral hepatitis. Tanaka A, et al. **Hepatology** 1997 May; 25(5):1070–6

Anti–neutrophil cytoplasmic antibodies in type 1 and 2 autoimmune hepatitis. Zauli D, et al. **Hepatology** 1997 May; 25(5):1105–7

Comparison of intrahepatic lymphocytes from normal and growth hormone transgenic mice with chronic hepatitis and liver cancer. Hardy CL, et al. **Immunology** 1997 Mar; 90(3):412–20

Autoimmune liver disease in childhood. Gregorio GV, et al. **Indian J Gastroenterol** 1997 Apr;16(2):60–3 (20 ref.)

Minocycline–related lupus erythematosus with associated liver disease. Crosson J, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):867–8

Autoimmune hepatitis type 2 and hepatitis C virus infection: study of HLA antigens. Jurado A, et al. **J Hepatol** 1997 May;26(5):983–91

Establishment of a novel radioligand assay using eukaryotically expressed cytochrome P4502D6 for the measurement of liver kidney microsomal type 1 antibody in patients with autoimmune hepatitis and hepatitis C virus infection. Ma Y, et al. **J Hepatol** 1997 Jun;26(6):1396–402

Actin is a target antigen of anti–neutrophil cytoplasmic antibodies (ANCA) in autoimmune hepatitis type–1. Orth T, et al. **J Hepatol** 1997 Jan;26(1):37–47

Present status of autoimmune hepatitis in Japan––correlating the characteristics with international criteria in an area with a high rate of HCV infection. Japanese National Study Group of Autoimmune Hepatitis. Toda G, et al. **J Hepatol** 1997 Jun;26(6):1207–12

Prevalence of antibodies to hepatitis C and herpes simplex virus type 1 is not increased in children with liver kidney microsomal type 1 autoimmune hepatitis. Gregorio GV, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):534–7

Asymptomatic autoimmune hepatitis associated with anti–LC–1 autoantibodies. Klein C, et al. **J Pediatr Gastroenterol Nutr** 1996 Nov;23(4):461–5

Post–infantile giant cell hepatitis in patients with primary sclerosing cholangitis and autoimmune hepatitis. Protzer U, et al. **Liver** 1996 Aug;16(4):274–82

Immune mechanisms in the process of hepatopathies chronicization. Contribution and role of lymphokines. Bordea M, et al. **Rom J Physiol** 1995 Jan–Dec; 32(1–4):87–95

Liver transplantation for autoimmune hepatitis: a 12–year experience. Ahmed M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):496

[Autoimmune hepatitis treated with cyclosporin revealed by acute hepatocellular failure] Launay V, et al. **Arch Pediatr** 1997 Jan;4(1):40–3 (Eng. Abstr.) **(Fre)**

[Bactericidal permeability increasing protein (BPI–ANCA marked chronic inflammatory bowel diseases and hepatobiliary diseases] Schnabel A, et al. **Med Klin** 1997 Jul 15;92(7):389–93 (Eng. Abstr.) **(Ger)**

[The absence of autoantibodies does not rule out autoimmune hepatitis] Schmid PA, et al. **Schweiz Med Wochenschr** 1996 Nov 30;126(48):2090–3 (Eng. Abstr.) **(Ger)**

[Intra–hepatic infiltrating T cell clonality analysis in patients with autoimmune hepatitis and the clinical significance] Takahashi H, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):708–12 (9 ref.) **(Jpn)**

[Interpretation, applications, and limitations of autoantibodies in chronic autoimmune hepatitis] Díaz Jouanen E. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S63–4 **(Spa)**

METABOLISM

Expression of E–selectin and E–selectin ligands in human liver inflammation. Adams DH, et al. **Hepatology** 1996 Sep; 24(3):533–8

Expression of platelet–derived growth factor and its receptor in livers of patients with chronic liver disease. Ikura Y, et al. **J Gastroenterol** 1997 Aug;32(4):496–501

Relationship between hepatic angiotensinogen mRNA expression and plasma angiotensinogen in patients with chronic hepatitis. Takahashi D, et al. **Life Sci** 1997; 60(18):1623–33

Chemokines, neutrophils, and inflammatory liver injury [editorial; comment] Jaeschke H. **Shock** 1996 Dec; 6(6):403–4. Comment on: Shock 1996 Dec;6(6):397–402.

MICROBIOLOGY

Granulomatous hepatitis and necrotizing splenitis due to Bartonella henselae in a patient with cancer: case report and review of hepatosplenic manifestations of bartonella infection. Liston TE, et al. **Clin Infect Dis** 1996 Jun; 22(6):951–7 (45 ref.)

Salmonella hepatitis: analysis of 27 cases and comparison with acute viral hepatitis. El–Newihi HM, et al. **Hepatology** 1996 Sep;24(3):516–9

Primary hepatic actinomycosis. Rabusin M, et al. **Pediatr Infect Dis J** 1996 Apr;15(4):382–4

Liver involvement in murine typhus. Silpapojakul K, et al. **QJM** 1996 Aug;89(8):623–9

[Case of Fitz–Hugh–Curtis syndrome] Mori Y, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1763–4 **(Jpn)**

PARASITOLOGY

Toxocara canis infection and granulomatous hepatitis. Kaushik SP, et al. **Am J Gastroenterol** 1997 Jul;92(7):1223–5

Unusual acute and chronic complications of malaria [see comments] Metha SR, et al. **J Assoc Physicians India** 1996 Jul;44(7):451–3. Comment in: J Assoc Physicians India 1996 Jul;44(7):445–6.

PATHOLOGY

Autoimmune hepatitis: a histological variant associated with prominent centrilobular necrosis. Te HS, et al. **Gut** 1997 Aug;41(2):269–71

Chronic hepatitis: what is activity and how should it be assessed? Scheuer PJ. **Histopathology** 1997 Feb;30(2):103–5 (19 ref.)

Experimental infection of the laboratory rat with the hepatitis E virus. Maneerat Y, et al. **J Med Virol** 1996 Feb; 48(2):121–8

Morphology of hepatic stellate cells in patients with fulminant or subfulminant hepatitis requiring liver transplantation. Bernard PH, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):5–12

Fine needle aspiration biopsy of the liver. Mederle O, et al. **Rom J Morphol Embryol** 1996 Jul–Dec;42(3–4):161–7

[Histologic diagnosis of chronic hepatitis, grading and staging (editorial)] Bruguera M. **Gastroenterol Hepatol** 1997 Apr; 20(4):190–2 **(Spa)**

PHYSIOPATHOLOGY

Hepatitis. Bondesson JD, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):695–718 (112 ref.)

Chemokines, neutrophils, and inflammatory liver injury [editorial; comment] Jaeschke H. **Shock** 1996 Dec; 6(6):403–4. Comment on: Shock 1996 Dec;6(6):397–402.

Autoimmune hepatitis in children. Raghuveera AL, et al. **W V Med J** 1996 Nov–Dec;92(6):316–9

[Relation between the blood stasis syndrome of hepatopathy and hemodynamics of portal vein] Tang ZM, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Apr; 16(4):216–7 **(Chi)**

[Hepatotropic virus and renal transplantation] Pol S, et al. **Gastroenterol Clin Biol** 1996;20(12):1058–65 (107 ref.) **(Fre)**

PREVENTION & CONTROL

Hepatitis: implications for dialysis personnel. Campbell MA. **Adv Ren Replace Ther** 1996 Oct;3(4):284–6

RADIONUCLIDE IMAGING

Outcome of hepatobiliary scanning in neonatal hepatitis syndrome. Gilmour SM, et al. **J Nucl Med** 1997 Aug; 38(8):1279–82

Analysis of diffuse parenchymal liver disease by liver scintigrams: differential diagnosis using neuro and fuzzy. Ikeda H. **Osaka City Med J** 1996 Dec;42(2):109–24

REHABILITATION

The effects of physical activity on rehabilitation for acute hepatitis. Ishida A, et al. **Tokai J Exp Clin Med** 1996 Feb; 21(1):1–6

SURGERY

Liver transplantation for autoimmune hepatitis: a 12–year experience. Ahmed M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):496

THERAPY

Biliary access procedure in the management of oriental cholangiohepatitis. Gott PE, et al. **Am Surg** 1996 Nov; 62(11):930–4

Emergent mitral percutaneous valvuloplasty before emergent liver transplantation [letter] Moreno R, et al. **Cathet Cardiovasc Diagn** 1997 Jun;41(2):229–30

Antipyrine clearance and response to interferon therapy in chronic hepatitis [letter; comment] Fabbri A, et al. **Hepatology** 1997 Feb;25(2):500–2. Comment on: Hepatology 1995 Oct;22(4 Pt 1):1065–71.

[Therapy of autoimmune hepatitis] Rambusch EG, et al. **Dtsch Med Wochenschr** 1996 Dec 6;121(49):1539–42 (25 ref.) **(Ger)**

[Use of extracorporeal hybrid (natural–artificial) liver in the treatment of patients with fulminant hepatitis] Bojić I. **Vojnosanit Pregl** 1996 Mar–Apr;53(2):133–6 (42 ref.) **(Scr)**

ULTRASONOGRAPHY

Echo–Doppler sonographic diagnosis of hypoxic hepatitis in patients with cardiac failure. Gorka W, et al. **J Ultrasound Med** 1997 Apr;16(4):293–5

VETERINARY see HEPATITIS, ANIMAL

VIROLOGY

Surreptitious hepatitis C virus (HCV) infection detected in the majority of patients with cryptogenic chronic hepatitis and negative HCV antibody tests. Schmidt WN, et al. **J Infect Dis** 1997 Jul;176(1):27–33

HEPATITIS A

Hepatitis A: from epidemic jaundice to a vaccine–preventable disease. Levinthal G, et al. **Gastroenterologist** 1996 Jun; 4(2):107–17 (81 ref.)

Critical calls. Jones TL. **Tex Med** 1997 Mar;93(3):49–52

[Protracted viral hepatitis A] Postovit VA, et al. **Klin Med (Mosk)** 1996;74(5):15–6 (13 ref.) **(Rus)**

BLOOD

Diminished plasma levels of vitamin E in patients with severe viral hepatitis. von Herbay A, et al. **Free Radic Res** 1996 Dec;25(6):461–6

Low lipoprotein (a) levels during acute viral hepatitis. Geiss HC, et al. **Hepatology** 1996 Dec;24(6):1334–7

Gastrointestinal peptide hormones in acute viral hepatitis. Budillon G, et al. **Ital J Gastroenterol** 1996 Feb–Mar; 28(2):86–90

Reduced glutathione concentration in erythrocytes of patients with acute and chronic viral hepatitis. Swiętek K, et al. **J Viral Hepat** 1997 Mar;4(2):139–41

Variations of zinc in acute and chronic hepatitis (preliminary data). Tănăsescu C, et al. **Rom J Intern Med** 1996 Jan–Jun; 34(1–2):79–84

Interdependence between Zn and Cu serum concentrations and serum immunoglobulins (IgA, IgM, IgG) in liver diseases. Tănăsescu C, et al. **Rom J Intern Med** 1996 Jul–Dec;34(3–4):217–24

Inactivation of hepatitis A virus in plasma products by vapor heating. Barrett PN, et al. **Transfusion** 1997 Feb; 37(2):215–20

[Level of beta 2–microglobulin in serum of patients with acute viral hepatitis types A, B and C] Tomasiewicz K, et al. **Przegl Epidemiol** 1996;50(3):259–64 (Eng. Abstr.) **(Pol)**

[Hepatitis A: clinical course and serology] Muñoz Espinosa LE. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S22–3 **(Spa)**

COMPLICATIONS

Acute renal failure associated with nonfulminant hepatitis A viral infection [letter; comment] Cadranel JF, et al. **Am J Gastroenterol** 1996 Oct;91(10):2257–8. Comment on: Am J Gastroenterol 1996 Feb;91(2):369–72.

Acute auto immune haemolytic anaemia secondary to hepatitis A infection. Tibble JA, et al. **Clin Lab Haematol** 1997 Mar;19(1):73–5

Acute renal failure complicating non-fulminant hepatitis A. Nachbaur K, et al. **Clin Nephrol** 1996 Jun;45(6):398–400

Co-existence of hepatitis A and adult Reye's syndrome. Duerksen DR, et al. **Gut** 1997 Jul;41(1):121–4

Liver failure in children with hepatitis A. Debray D, et al. **Hepatology** 1997 Oct;26(4):1018–22

Association of seropositivity for hepatitis viruses and aplastic anemia in Thailand. Issaragrisil S, et al. **Hepatology** 1997 May;25(5):1255–7

Hepatitis A associated with myoglobinuria. Aggarwal SP, et al. **Indian J Gastroenterol** 1996 Jul;15(3):107

Subacute hepatic failure in hepatitis A. Ghoshal UC, et al. **Indian J Gastroenterol** 1997 Jul;16(3):109

Spontaneous rupture of spleen in viral hepatitis A. Guleria S, et al. **Indian J Gastroenterol** 1996 Jan;15(1):30

Mesangial proliferative glomerulonephritis and nephrotic syndrome with hepatitis A virus infection. Mathur RC, et al. **Indian Pediatr** 1996 Dec;33(12):1051–3

Severe acute hepatitis A associated with acute pure red cell aplasia. Tomida S, et al. **J Gastroenterol** 1996 Aug; 31(4):612–7 (26 ref.)

Guillain–Barré like syndrome associated with acute renal failure and thrombocytopenia following acute viral hepatitis A. Lee DK, et al. **J Korean Med Sci** 1997 Apr; 12(2):151–6

Interferon alpha 2a therapy for urticarial vasculitis with angioedema apparently following hepatitis A infection. Matteson EL. **J Rheumatol** 1996 Feb;23(2):382–4

Cutaneous necrotizing vasculitis associated with hepatitis A virus infection. Press J, et al. **J Rheumatol** 1997 May; 24(5):965–7

Mononeuritis multiplex: a rare complication of acute hepatitis A. Safadi R, et al. **Liver** 1996 Aug;16(4):288–9

Acute renal failure in non-fulminant hepatitis A [see comments] Lin CC, et al. **Nephrol Dial Transplant** 1996 Oct;11(10):2061–6 (32 ref.). Comment in: Nephrol Dial Transplant 1997 Jul;12(7):1543–4.

Another case of acute renal failure (ARF) due to acute tubular necrosis (ATN), proven by renal biopsy in non-fulminant hepatitis A virus (HAV) infection [letter; comment] Malbrain ML, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1543–4. Comment on: Nephrol Dial Transplant 1996 Oct;11(10):2061–6.

Acute renal failure complicating nonfulminant hepatitis A in childhood [letter] Martino R, et al. **Nephron** 1996; 74(2):490

Acute cerebellar ataxia after subclinical hepatitis A infection. Tuthill D, et al. **Pediatr Infect Dis J** 1996 Jun;15(6):546–7

Hepatitis virus and kidney. Praditpornsilpa K, et al. **Singapore Med J** 1996 Dec;37(6):639–44 (53 ref.)

Acute viral hepatitis A: a cause of jaundice in typhoid fever. Wilairatana P. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):406–7

Acute renal failure complicating nonfulminant hepatitis A. McCann UG 2nd, et al. **West J Med** 1996 Nov; 165(5):308–10 (32 ref.)

Coombs-negative severe hemolysis associated with hepatitis A. Ibe M, et al. **Z Gastroenterol** 1997 Jul;35(7):567–9

[Hematologic manifestations related to hepatitis A virus. 3 cases] Maiga MY, et al. **Gastroenterol Clin Biol** 1997; 21(4):327–30 (28 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Type A viral hepatitis: epidemiology, diagnosis, and prevention. Lemon SM. **Clin Chem** 1997 Aug;43(8 Pt 2):1494–9 (15 ref.)

The reliability of saliva as a sample for the detection of hepatitis A immunoglobulins under various sampling conditions. O'Farrell BJ, et al. **Clin Diagn Virol** 1997 Feb; 7(3):153–7

Childhood infection with hepatitis A and B viruses in England and Wales. Hesketh LM, et al. **Commun Dis Rep CDR Rev** 1997 Apr 4;7(4):R60–3

Prolonged hepatitis A disease in an eight-year-old girl [letter] Doğanci T, et al. **Pediatr Infect Dis J** 1997 Mar;16(3):336

Acute viral hepatitis A patient with early negative HAV-IGM antibody. Wilairatana P. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):202–3

[General practice case. Acute hepatitis A infection. Symptomatic and icteric course] Tränkle P, et al. **Schweiz Rundsch Med Prax** 1997 May 28;86(22):957–9 **(Ger)**

[A case of the aged man with acute onset autoimmune hepatitis] Tokita K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):371–5 **(Jpn)**

[Viral hepatitis A and B in wounded patients] Liashenko IuI, et al. **Voen Med Zh** 1996 Nov;317(11):49–52, 79 (Eng. Abstr.) **(Rus)**

[A case of a combined course of meningococcal infection and viral hepatitis A] Shkurba AV, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):162–3 **(Ukr)**

DRUG THERAPY

[The efficacy of caleflone in treating patients with viral hepatitis] Nelko EM, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):138–9 (Eng. Abstr.) **(Ukr)**

ECONOMICS

Hepatitis A infection in aircrews: risk of infection and cost-benefit analysis of hepatitis A vaccination. Gutersohn T, et al. **Aviat Space Environ Med** 1996 Feb;67(2):153–6

ENZYMOLOGY

[The interaction of the cyclase and immune systems in patients with viral hepatitis A and B] Rashidova ShM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):79–83 **(Rus)**

EPIDEMIOLOGY

The seroprevalence of the "total" anti-HAV antibody in the Czech UNPRO Forces (1991–1995). Beran J, et al. **Acta Medica (Hradec Kralove)** 1996;39(1):35–9

Risk of infection with Helicobacter pylori and hepatitis A virus in different groups of hospital workers. Rudi J, et al. **Am J Gastroenterol** 1997 Feb;92(2):258–62

An outbreak of hepatitis A in an intensive care unit. Hanna JN, et al. **Anaesth Intensive Care** 1996 Aug;24(4):440–4

Epidemiology of HAV infection in Piedmont, Italy. Russo R, et al. **Ann Ig** 1997 Jan–Feb;9(1):3–8

Enterically transmitted hepatitis in Saudi Arabia: an epidemiological study. Arif M. **Ann Trop Med Parasitol** 1996 Apr;90(2):197–201

Prevalence of infection with hepatitis A virus among primary-school children in Bangkok, Thailand. Poovorawan Y, et al. **Ann Trop Med Parasitol** 1997 Jan; 91(1):119–20

Hepatitis A infection in aircrews: risk of infection and cost-benefit analysis of hepatitis A vaccination. Gutersohn T, et al. **Aviat Space Environ Med** 1996 Feb;67(2):153–6

Resurgence of hepatitis A in homosexual men in Montreal Centre, Quebec. Valiquette L, et al. **Can Commun Dis Rep** 1996 Aug 15;22(16):133–5; discussion, 138 **(Eng, Fre)**

Type A viral hepatitis: epidemiology, diagnosis, and prevention. Lemon SM. **Clin Chem** 1997 Aug;43(8 Pt 2):1494–9 (15 ref.)

Hepatitis A outbreak in New South Wales. **Commun Dis Intell** 1997 Feb 20;21(4):46

A community-wide hepatitis A outbreak in the Shoalhaven region, New South Wales. Heath T, et al. **Commun Dis Intell** 1997 Jan 9;21(1):1–4

Childhood infection with hepatitis A and B viruses in England and Wales. Hesketh LM, et al. **Commun Dis Rep CDR Rev** 1997 Apr 4;7(4):R60–3

Hepatitis A in homosexual men. **Commun Dis Rep CDR Wkly** 1996 Jul 19;6(29):247

The role of young children in a community-wide outbreak of hepatitis A. Smith PF, et al. **Epidemiol Infect** 1997 Jun; 118(3):243–52

Prevalence of hepatitis A, B and C in the Flemish population. Beutels M, et al. **Eur J Epidemiol** 1997 Apr;13(3):275–80

Seroprevalence of hepatitis A virus infection among sewage workers in the Parisian area, France. Cadilhac P, et al. **Eur J Epidemiol** 1996 Jun;12(3):237–40

Prevalence of hepatitis A antibodies in southeastern Spain: a population-based study. García-Fulgueiras A, et al. **Eur J Epidemiol** 1997 Jun;13(4):481–3

Prevalence of hepatitis A, B, and C markers in school children of a rural area of Crete, Greece. Lionis C, et al. **Eur J Epidemiol** 1997 Jun;13(4):417–20

Prevalence of antibodies against enterically transmitted viral hepatitis (HAV and HEV) among adolescents in an inland territory of central Italy. Ripabelli G, et al. **Eur J Epidemiol** 1997 Jan;13(1):45–7

An outbreak of hepatitis A in a French day-care center and efforts to combat it. Severo CA, et al. **Eur J Epidemiol** 1997 Feb;13(2):139–44

Hepatitis A: epidemiology and prevention. Feinstone SM. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):300–5 (67 ref.)

Hepatitis B and C infection in children with Down syndrome [letter] Piccione M, et al. **Eur J Pediatr** 1997 May; 156(5):420–1

Rise in hepatitis A among gay men in the Thames regions 1995 and 1996 [letter] Walsh B, et al. **Genitourin Med** 1996 Dec;72(6):449–50

Seroepidemiology of Helicobacter pylori infection and hepatitis A in a rural area: evidence against a common mode of transmission. Luzza F, et al. **Gut** 1997 Aug; 41(2):164–8

Seroprevalence of hepatitis A IgG antibody—is it relevant in clinical practice [letter] Das K, et al. **Indian J Gastroenterol** 1996 Jan;15(1):32–3

A model of long-term decline in the transmissibility of an infectious disease: implications for the incidence of hepatitis A. Gay NJ. **Int J Epidemiol** 1996 Aug;25(4):854–61

Hepatitis A in a Chinese urban population: the spectrum of social and behavioural risk factors. Mäusezahl D, et al. **Int J Epidemiol** 1996 Dec;25(6):1271–9

Incidence of and risk factors for hepatitis A in Italy: public health indications from a 10-year surveillance. SEIEVA Collaborating Group. Mele A, et al. **J Hepatol** 1997 Apr; 26(4):743–7

Economic aspects of a small epidemic of hepatitis A in a religious community in Northern Italy. Demicheli V, et al. **J Infect** 1996 Sep;33(2):87–90

Seroprevalence of and risk factors for hepatitis A infection among young homosexual and bisexual men. Katz MH, et al. **J Infect Dis** 1997 May;175(5):1225–9

Characterisation of an epidemic of hepatitis A virus involving intravenous drug abusers—infection by needle sharing? Grinde B, et al. **J Med Virol** 1997 Sep;53(1):69–75

Acute sporadic hepatitis in the Republic of Yemen. Gunaid AA, et al. **J Med Virol** 1997 Jan;51(1):64–6

Current prevalence of hepatitis A, B and C in a well-defined area in rural Crete, Greece. Lionis C, et al. **J Viral Hepat** 1997 Jan;4(1):55–61

Hepatitis A among workers from a waste water treatment plant during a small community outbreak. De Serres G, et al. **Occup Environ Med** 1997 Jan;54(1):60–2

Hepatitis A immunity in the Swedish population. A study of the prevalence of markers in the Swedish population. Böttiger M, et al. **Scand J Infect Dis** 1997;29(2):99–102

Incidence and relative risk for hepatitis A, hepatitis B and tuberculosis and occurrence of malaria among merchant seamen. Hansen HL, et al. **Scand J Infect Dis** 1996; 28(2):107–10

Hepatitis A outbreak amongst intravenous amphetamine abusers in Finland. Leino T, et al. **Scand J Infect Dis** 1997; 29(3):213–6

Outbreak of acute hepatitis A among homosexual men in East London. Sundkvist T, et al. **Scand J Infect Dis** 1997; 29(3):211–2

Age-specific prevalence of hepatitis A antibody in Thai children. Kalayanarooj S, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):709–11

[Occurrence of hepatitis A infection in Denmark] Tornberg E, et al. **Ugeskr Laeger** 1997 May 5;159(19):2856–61 (Eng. Abstr.) **(Dan)**

[Hepatitis A virus immune status of Antilles military personnel: incidence after prophylaxis] Dulat C, et al. **Med Trop (Mars)** 1996;56(3):255–8 (Eng. Abstr.) **(Fre)**

[Seroprevalence of viral hepatitis A in France in homosexuals and intravenous drug users] Lucht F, et al. **Presse Med** 1996 Sep 7;25(25):1141–3 (Eng. Abstr.) **(Fre)**

[Viral hepatitis in French United Nations military personnel] Samson T, et al. **Rev Epidemiol Sante Publique** 1996 Oct; 44(5):465–9 **(Fre)**

[Seroepidemiologic study of the prevalence of anti-HAV antibodies in children in Rome] Catania S, et al. **Riv Eur Sci Med Farmacol** 1996 Jan–Feb;18(1):7–9 (Eng. Abstr.) **(Ita)**

[An outbreak of hepatitis A among intravenous drug addicts in Oslo 1995–96] Jensenius M, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10;117(7):935–40 (Eng. Abstr.) **(Nor)**

[The rate of infections caused by the hepatitis viruses in the Tîrgu-Mureş area] Sabău M, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan–Jun; 38(1–2):28–31 **(Rum)**

[A serial questionnaire on the prevalence of hepatitis A antibodies in adolescents in urban area: comparative study (1990–1995) (letter)] Gil Miguel A, et al. **Aten Primaria** 1996 Dec;18(10):584, 586 **(Spa)**

[Epidemiological study of hepatitis A and E viruses in different populations in Uruguay] Cruells MR, et al. **Gastroenterol Hepatol** 1997 Jun–Jul;20(6):295–8 (Eng. Abstr.) **(Spa)**

[Prevalence of hepatitis B and hepatitis A virus infection among health sciences students in Catalonia, Spain] Bayas JM, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):281–4 (Eng. Abstr.) **(Spa)**

[The immune status against hepatitis A virus in medical residents (letter)] Benito Ruesca R, et al. **Med Clin (Barc)** 1997 Jul 5;109(6):236–7 **(Spa)**

[Prevalence of serologic markers of hepatitis A, B, C, and D viruses in pregnant women] Ortiz-Ibarra FJ, et al. **Salud Publica Mex** 1996 Sep–Oct;38(5):317–22 (Eng. Abstr.) **(Spa)**

[Seroprevalence of hepatitis A in Aragonese donors (letter)] García Erce J, et al. **Sangre (Barc)** 1996 Dec;41(6):484–5 **(Spa)**

[Seroprevalence of hepatitis A in hemophiliacs] Molina R, et al. **Sangre (Barc)** 1996 Oct;41(5):363–5 (Eng. Abstr.) **(Spa)**

ETIOLOGY

An outbreak of hepatitis A associated with a bakery, New York, 1994: the 1968 "West Branch, Michigan' outbreak repeated. Weltman AC, et al. **Epidemiol Infect** 1996 Oct; 117(2):333–41

From the Centers for Disease Control and Prevention. Hepatitis A associated with consumption of frozen strawberries—Michigan, March 1997. **JAMA** 1997 Apr 23–30;277(16):1271

Hepatitis A associated with consumption of frozen strawberries—Michigan, March 1997. **MMWR Morb Mortal Wkly Rep** 1997 Apr 4;46(13):288, 295

An investigation into the possible links between shigellosis and hepatitis A and public water supply disconnections. Fewtrell L, et al. **Public Health** 1997 May;111(3):179–81

[Viral hepatitis A: causes of lingering] Vinogradova EN, et al. **Klin Med (Mosk)** 1996;74(9):29–31 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Cross sectional retrospective study of prevalence of atopy

among Italian military students with antibodies against hepatitis A virus [see comments] Matricardi PM, et al. **BMJ** 1997 Apr 5;314(7086):999–1003. Comment in: BMJ 1997 Apr 5;314(7086):987–8.

The prevalence and direct costs of pre–immunization testing for hepatitis A in general practice. Buckley D, et al. **Br J Gen Pract** 1996 Sep;46(410):541–2

The reliability of saliva as a sample for the detection of hepatitis A immunoglobulins under various sampling conditions. O'Farrell BJ, et al. **Clin Diagn Virol** 1997 Feb; 7(3):153–7

Acute auto immune haemolytic anaemia secondary to hepatitis A infection. Tibble JA, et al. **Clin Lab Haematol** 1997 Mar;19(1):73–5

An outbreak of hepatitis A associated with a bakery, New York, 1994: the 1968 "West Branch, Michigan' outbreak repeated. Weltman AC, et al. **Epidemiol Infect** 1996 Oct; 117(2):333–41

Prevalence of hepatitis A antibodies in southeastern Spain: a population–based study. García–Fulgueiras A, et al. **Eur J Epidemiol** 1997 Jun;13(4):481–3

Immunohistochemical characterization of hepatic lymphocytes in acute hepatitis A, B, and C. Hashimoti E, et al. **J Clin Gastroenterol** 1996 Oct;23(3):199–202

Immune response to hepatitis A virus capsid proteins after infection [published erratum appears in J Clin Microbiol 1996 Jun;34(6):1601] Wang CH, et al. **J Clin Microbiol** 1996 Mar;34(3):707–13

Analysis of serum hepatitis A virus antibody response in different courses of hepatitis A virus infection. Sata M, et al. **J Gastroenterol** 1996 Dec;31(6):812–7

Transient positivity of antinuclear and anti–smooth muscle antibodies in hepatitis A virus infection [letter] Gutiérrez A, et al. **J Hepatol** 1996 Jan;24(1):123

Detection of antibodies to the nonstructural 3C proteinase of hepatitis A virus. Stewart DR, et al. **J Infect Dis** 1997 Sep;176(3):593–601

Increased serum IgE in acute type A, B and delta hepatitis. Gutiérrez D, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):119–21

Haemolysis in hepatitis A virus infections coinciding with the occurrence of autoantibodies against triosephosphate isomerase and the reactivation of latent persistent Epstein–Barr virus infection. Ritter S, et al. **J Med Virol** 1996 Nov;50(3):272–5

Prevalence of immunity to hepatitis A in recruits to the British Army and Royal Air Force. Cumberland NS, et al. **J R Army Med Corps** 1994 Jun;140(2):71–5

Immunogenicity and reactogenicity of a combined hepatitis A/B candidate vaccine: first results. Kallinowski B, et al. **Liver** 1996 Aug;16(4):271–3

Placental transfer of hepatitis A antibodies in full term and preterm infants. Linder N, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):245–7

Risk factors and prevalence of antibodies against hepatitis A virus (HAV) in children from day–care centers, in Goiania, Brazil. Queiróz DA, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep–Oct;37(5):427–33

Age–specific prevalence of hepatitis A antibody in Thai children. Kalayanarooj S, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):709–11

[The interaction of the cyclase and immune systems in patients with viral hepatitis A and B] Rashidova ShM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):79–83 **(Rus)**

[The clinico–pathogenetic importance of evaluating monocyte phagocytic activity in viral hepatitis in children] Izvekova VA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):60–4 (Eng. Abstr.) **(Rus)**

[Seroprevalence of hepatitis A antibodies in patients with chronic hepatitis (letter)] Bañares R, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):183 **(Spa)**

MICROBIOLOGY

Study of transmission routes of Helicobacter pylori in relation to seroprevalence of hepatitis A virus. Furuta T, et al. **J Clin Microbiol** 1997 Jul;35(7):1891–3

PHYSIOPATHOLOGY

[Modeling hepatitis A in monkeys (results and prospects)] Lapin BA, et al. **Biull Eksp Biol Med** 1996 May; 121(5):484–8 (50 ref.) **(Rus)**

[The effect of viral hepatitis A on thyroid function] Dykyl BM, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):98–9 (Eng. Abstr.) **(Ukr)**

PREVENTION & CONTROL

ACIP issues recommendations for hepatitis A prevention with active or passive immunization. Advisory Committee on Immunization Practices. **Am Fam Physician** 1997 Feb 15;55(3):973–6

Prevention of hepatitis A and B. Bell S, et al. **Aust Fam Physician** 1997 Aug;26(8):933–6

Analysis of the antibody response in humans with a new inactivated hepatitis A vaccine. Vidor E, et al. **Biologicals** 1996 Sep;24(3):235–42

Supplementary statement on hepatitis A prevention. **Can Commun Dis Rep** 1996 Jan 1;22(1):1–3

Hepatitis A. **Can Med Assoc J** 1997 Feb 15;156(4):545–6 **(Eng, Fre)**

Hepatitis A vaccination by Havrix in the Czech U.N. Troops according to data of seroprevalence in 1991–1995. Beran J, et al. **Cent Eur J Public Health** 1996 May;4(2):87–90

New hepatitis A vaccines and their role in prevention [published erratum appears in Drugs 1996 Sep;52(3):449] Strader DB, et al. **Drugs** 1996 Mar;51(3):359–66 (25 ref.)

Hepatitis A: epidemiology and prevention. Feinstone SM. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):300–5 (67 ref.)

Immunisation against hepatitis A—active or passive? Iwarson S. **Infection** 1996 Jan–Feb;24(1):2–4 (15 ref.)

Anti–hepatitis A virus (HAV) vaccination: guidelines for an immunization strategy in Italy. Workshop Consensus Conference—Rome, May 2–3, 1995 [published erratum appears in Ital J Gastroenterol 1996 Jul–Aug;28(6):368] **Ital J Gastroenterol** 1996 Apr;28(3):181–4 (0 ref.)

Evaluation of the timing of the booster injection after a primary vaccination against hepatitis A. Fujiyama S, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):172–5

Persistence of antibodies after inactivated hepatitis A vaccines in a comparative study [letter] Goilav C, et al. **J Infect** 1997 Mar;34(2):158

Immunogenicity and efficacy of a killed hepatitis A vaccine in day care center children. Richtmann R, et al. **J Med Virol** 1996 Feb;48(2):147–50

Duration of protection from clinical hepatitis A disease after vaccination with VAQTA. Wiens BL, et al. **J Med Virol** 1996 Jul;49(3):235–41

Occupational medicine forum [see comments] **J Occup Environ Med** 1996 Apr;38(4):339–41 (16 ref.). Comment in: J Occup Environ Med 1996 Dec;38(12):1200–1.

Hepatitis A vaccine [letter; comment] Nalin DR. **J Occup Environ Med** 1996 Dec;38(12):1200–1. Comment on: J Occup Environ Med 1996 Apr;38(4):339–41.

Don't forget the hepatitis A vaccine [letter] Thompson SC, et al. **Med J Aust** 1997 Aug 18;167(4):228–9

Hepatitis A vaccination programs in communities with high rates of hepatitis A. **MMWR Morb Mortal Wkly Rep** 1997 Jul 4;46(26):600–3

Prevention of hepatitis A through active or passive immunization: Recommendations of the Advisory Committee on Immunization Practices (ACIP) [published erratum appears in MMWR Morb Mortal Wkly Rep 1997 Jun 27;46(25):588] **MMWR Morb Mortal Wkly Rep** 1996 Dec 27;45(RR–15):1–30

Prevention of hepatitis A infections: guidelines for use of hepatitis A vaccine and immune globulin. American Academy of Pediatrics Committee on Infectious Diseases. **Pediatrics** 1996 Dec;98(6 Pt 1):1207–15 (50 ref.)

New and improved vaccines. Promising weapons against varicella, hepatitis A, and typhoid fever. Conrad DA, et al. **Postgrad Med** 1996 Oct;100(4):113–8, 121–5, 127 (20 ref.)

Guidelines for prevention and control of hepatitis A in American Indian and Alaska Native communities [published erratum appears in S D J Med 1997 May;50(5):179] Welty TK, et al. **S D J Med** 1996 Sep; 49(9):317–22

Safety and immunogenicity of a combined hepatitis A and hepatitis B vaccine in young healthy adults. Leroux–Roels G, et al. **Scand J Gastroenterol** 1996 Oct;31(10):1027–31

Hepatitis A vaccination by intracutaneous low dose administration: a less expensive alternative. Carlsson U, et al. **Scand J Infect Dis** 1996;28(5):435–8

Interference assessment of yellow fever vaccine with the immune response to a single–dose inactivated hepatitis A vaccine (1440 EL.U.). A controlled study in adults. Gil A, et al. **Vaccine** 1996 Aug;14(11):1028–30

Immunogenicity and adverse effects of inactivated virosome versus alum–adsorbed hepatitis A vaccine: a randomized controlled trial [published erratum appears in Vaccine 1997 Feb;15(2):245] Holzer BR, et al. **Vaccine** 1996 Jul; 14(10):982–6

Further evaluation of the safety and protective efficacy of live attenuated hepatitis A vaccine (H2–strain) in humans. Mao JS, et al. **Vaccine** 1997 Jun;15(9):944–7

[Hepatitis A virus immune status of Antilles military personnel: incidence after prophylaxis] Dulat C, et al. **Med Trop (Mars)** 1996;56(3):255–8 (Eng. Abstr.) **(Fre)**

[Vaccinations against hepatitis A and B in France in 1996 (letter)] Morlat P, et al. **Rev Med Interne** 1996;17(10):855 **(Fre)**

[The vaccination responsibility for the employees of general medical practices] Schell W. **Dtsch Med Wochenschr** 1997 Mar 27;122(13):422 **(Ger)**

[Combined prevention of hepatitis A and B] **Fortschr Med** 1997 May 10;115(13):18 **(Ger)**

[Preventive vaccination for viral hepatitis] Jilg W. **Z Gastroenterol** 1997 Jul;35(7):585–90 (18 ref.) (Eng. Abstr.) **(Ger)**

[Vaccination against hepatitis A] Balli F, et al. **Pediatr Med Chir** 1996 May–Jun;18(3):259–62 (19 ref.) (Eng. Abstr.) **(Ita)**

[Inactivated vaccine against hepatitis A: review of the literature and considerations on its use] Santos MV, et al. **Rev Soc Bras Med Trop** 1997 Mar–Apr;30(2):145–57 (Eng. Abstr.) **(Por)**

[Protection of adolescents against hepatitis A] Puntarić D, et al. **Lijec Vjesn** 1996 Oct;118(10):241–3 (Eng. Abstr.) **(Scr)**

[Prevalence of antibodies against hepatitis A, B, C and E viruses in the rural child population in Northern Extremadura] Montes Martínez I, et al. **An Esp Pediatr** 1996 Aug;45(2):133–6 (Eng. Abstr.) **(Spa)**

[Viral hepatitis type A. Who should be vaccinated?] Albornoz Monque A, et al. **G E N** 1995 Oct–Dec;49(4):263–6 (Eng. Abstr.) **(Spa)**

[Hepatitis A: is universal vaccination justified in Mexico?] Kershenobich D. **Rev Gastroenterol Mex** 1996 Oct–Dec; 61(4 Suppl 2):S69–70 **(Spa)**

[Prevention of Hepatitis A and B] Sjogren MH. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S30–3 **(Spa)**

[Hepatitis A vaccination. Opinion of the Chilean Infectology Society] **Rev Med Chil** 1996 Mar;124(3):363–6 (Eng. Abstr.) **(Spa)**

REHABILITATION

[Decimeter–wave physiotherapy in viral hepatitis] Kents VV, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):140–4 (Eng. Abstr.) **(Rus)**

[The action of an ultrahigh–frequency electromagnetic field (460 MHz) in patients with a history of viral hepatitis in the early convalescence period] Filimonov RM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):18–9 (Eng. Abstr.) **(Rus)**

THERAPY

The dosage of immunoglobulin recommended for household contacts of cases of hepatitis A [letter] Welty TK. **S D J Med** 1997 May;50(5):179

TRANSMISSION

An outbreak of hepatitis A in an intensive care unit. Hanna JN, et al. **Anaesth Intensive Care** 1996 Aug;24(4):440–4

Seroprevalence of hepatitis A virus infection among sewage workers in the Parisian area, France. Cadilhac P, et al. **Eur J Epidemiol** 1996 Jun;12(3):237–40

Helicobacter pylori transmission: evidence from a comparison with hepatitis A virus. Webb PM, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):439–41

A model of long–term decline in the transmissibility of an infectious disease: implications for the incidence of hepatitis A. Gay NJ. **Int J Epidemiol** 1996 Aug;25(4):854–61

Hepatitis A infrequent food link, but of concern... [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 May 15; 210(10):1398

Characterisation of an epidemic of hepatitis A virus involving intravenous drug abusers—infection by needle sharing? Grinde B, et al. **J Med Virol** 1997 Sep;53(1):69–75

Intrauterine transmission of hepatitis A virus. Leikin E, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):690–1

Immunity to hepatitis A in paediatric and nursery nurses. Poole CJ, et al. **Occup Med (Oxf)** 1996 Oct;46(5):361–3

Outbreak of hepatitis A in a college traced to contaminated water reservoir in cafeteria. Poonawagul U, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):705–8

Hepatitis A transmission by factor IX concentrates. Lawlor E, et al. **Vox Sang** 1996;71(2):126–8

VIROLOGY

Viral hepatitis in older adults. Marcus EL, et al. **J Am Geriatr Soc** 1997 Jun;45(6):755–63 (108 ref.)

New, ultrasensitive enzyme immunoassay for detecting vaccine– and disease–induced hepatitis A virus–specific immunoglobulin G in saliva. Ochnio JJ, et al. **J Clin Microbiol** 1997 Jan;35(1):98–101

A community prevalence study of antibodies to hepatitis A and E in inner–city London. Bernal W, et al. **J Med Virol** 1996 Jul;49(3):230–4

Chronic hepatitis A with persistent viral replication. Inoue K, et al. **J Med Virol** 1996 Dec;50(4):322–4

Molecular epidemiology of South African strains of hepatitis A virus: 1982–1996. Taylor MB. **J Med Virol** 1997 Apr; 51(4):273–9

Sequence–specific, single–primer amplification and detection of PCR products for identification of hepatitis viruses. Nainan OV, et al. **J Virol Methods** 1996 Sep;61(1–2):127–34

[Hepatitis A: clinical course and serology] Muñoz Espinosa LE. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S22–3 **(Spa)**

HEPATITIS A VIRUS see **HEPATOVIRUS**

HEPATITIS A VIRUS, HUMAN

Seroepidemiology of Helicobacter pylori infection and hepatitis A in a rural area: evidence against a common mode of transmission. Luzza F, et al. **Gut** 1997 Aug; 41(2):164–8

CHEMISTRY

Size and conformational stability of the hepatitis A virus used to prepare VAQTA, a highly purified inactivated vaccine. Volkin DB, et al. **J Pharm Sci** 1997 Jun;86(6):666–73

GENETICS

[Construction of gene library of attenuated liver hepatitis A vaccine (H2 strain)] Chen Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):342–4 (Eng. Abstr.) **(Chi)**

GROWTH & DEVELOPMENT

Inactivation of hepatitis A virus in plasma products by vapor heating. Barrett PN, et al. **Transfusion** 1997 Feb; 37(2):215–20

IMMUNOLOGY

AAP develops guidelines for hepatitis A vaccine and immune globulin in children. American Academy of Pediatrics. **Am Fam Physician** 1997 May 15;55(7):2535–6

Supplementary statement on hepatitis A prevention. **Can Commun Dis Rep** 1996 Jan 1;22(1):1–3

Hepatitis A vaccination by Havrix in the Czech U.N. Troops according to data of seroprevalence in 1991–1995. Beran J, et al. **Cent Eur J Public Health** 1996 May;4(2):87–90

Immunogenicity of two versus three injections of inactivated hepatitis A vaccine in adults. Chen XQ, et al. **J Hepatol** 1997 Feb;26(2):260–4

Does immunoglobulin interfere with the immunogenicity to Pasteur Mérieux inactivated hepatitis A vaccine? Zanetti A, et al. **J Hepatol** 1997 Jan;26(1):25–30

Hepatitis A vaccination programs in communities with high rates of hepatitis A. **MMWR Morb Mortal Wkly Rep** 1997 Jul 4;46(26):600–3

Prevention of hepatitis A through active or passive immunization: Recommendations of the Advisory Committee on Immunization Practices (ACIP) [published erratum appears in MMWR Morb Mortal Wkly Rep 1997 Jun 27;46(25):588] **MMWR Morb Mortal Wkly Rep** 1996 Dec 27;45(RR-15):1–30

Immunity to hepatitis A in paediatric and nursery nurses. Poole CJ, et al. **Occup Med (Oxf)** 1996 Oct;46(5):361–3

Prevalence of Helicobacter pylori antibodies in normal children. Ader-Shotet F, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):172–4

Hepatitis A vaccination by intracutaneous low dose administration: a less expensive alternative. Carlsson U, et al. **Scand J Infect Dis** 1996;28(5):435–8

Immunogenicity and protectivity of a new liposomal hepatitis A vaccine. Ambrosch F, et al. **Vaccine** 1997 Aug; 15(11):1209–13

Immunogenicity and reactogenicity of a combined hepatitis A and B vaccine in young adults. Bruguera M, et al. **Vaccine** 1996 Oct;14(15):1407–11

Further evaluation of the safety and protective efficacy of live attenuated hepatitis A vaccine (H2-strain) in humans. Mao JS, et al. **Vaccine** 1997 Jun;15(9):944–7

Hepatitis A vaccine: persistence of antibodies 5 years after the first vaccination. Totos G, et al. **Vaccine** 1997 Aug; 15(11):1252–3

Inactivated hepatitis A vaccine: long-term antibody persistence. Wiedermann G, et al. **Vaccine** 1997 Apr–May; 15(6–7):612–5

[Vaccination against hepatitis A] Balli F, et al. **Pediatr Med Chir** 1996 May–Jun;18(3):259–62 (19 ref.) (Eng. Abstr.) **(Ita)**

[Reactivity and immunogenicity of Havrix 360 vaccine for hepatitis A] Borčić B, et al. **Lijec Vjesn** 1996 Jul–Aug; 118(7–8):162–4 (Eng. Abstr.) **(Scr)**

ISOLATION & PURIFICATION

Detection of human enteric viruses in oysters by in vivo and in vitro amplification of nucleic acids. Chung H, et al. **Appl Environ Microbiol** 1996 Oct;62(10):3772–8

[The hepatitis A virus isolated and adapted in human diploid fibroblast cells (KMB17)] Chen T, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Feb; 18(1):29–32 (Eng. Abstr.) **(Chi)**

HEPATITIS AGENTS, GB

GB virus infection in acute and chronic cryptogenic liver disease [letter] Sata M, et al. **Am J Gastroenterol** 1997 Aug; 92(8):1404–5

Acute hepatitis type C co-infected with GBV-C treated with interferon [letter] Suzuki H, et al. **Am J Gastroenterol** 1996 Dec;91(12):2651–2

Hepatitis G and mixed cryoglobulinemia [letter] Cacoub P, et al. **Ann Intern Med** 1997 Jun 15;126(12):1002

Hepatitis G virus infection: a work in progress [editorial; comment] Di Bisceglie AM. **Ann Intern Med** 1996 Nov 1;125(9):772–3. Comment on: Ann Intern Med 1996 Nov 1;125(9):740–3.

Influence of hepatitis G virus infection on the severity of liver disease and response to interferon-alpha in patients with chronic hepatitis C. Martinot M, et al. **Ann Intern Med** 1997 Jun 1;126(11):874–81

Effect of hepatitis G virus infection on chronic hepatitis C [see comments] Tanaka E, et al. **Ann Intern Med** 1996 Nov 1;125(9):740–3. Comment in: Ann Intern Med 1996 Nov 1;125(9):772–3.

GB virus C infection and liver transplantation: increased risk of transfusion-transmitted infection [letter] Feucht HH, et al. **Blood** 1997 Mar 15;89(6):2223–4

Hepatitis C and G virus infection and liver dysfunction after allogeneic bone marrow transplantation: results from a prospective study. Rodriguez-Iñigo E, et al. **Blood** 1997 Aug 1;90(3):1326–31

Low prevalence of hepatitis G viraemia in haemophilia patients in Australia [letter] Baker R, et al. **Br J Haematol** 1997 Mar;96(3):654–5

Prevalence and clinical significance of hepatitis G virus infection in adult beta-thalassaemia major patients. Sampietro M, et al. **Br J Haematol** 1997 Jun;97(4):904–7

Hepatitis G virus: identification and prevalence. Karayiannis P, et al. **Br J Hosp Med** 1996 Sep 4–17;56(5):238–40 (17 ref.)

Prevalence of hepatitis G virus among intravenous drug abusers in Los Angeles. Fong TL, et al. **Clin Infect Dis** 1997 Jul;25(1):165–6

Histopathologic impact of GB virus C infection on chronic hepatitis C. Bralet MP, et al. **Gastroenterology** 1997 Jan; 112(1):188–92

Hepatitis G virus in intravenous immunoglobulin [letter; comment] Chen PJ, et al. **Gastroenterology** 1996 Nov; 111(5):1399–400. Comment on: Gastroenterology 1996 Apr;110(4):1120–6.

The role of hepatitis G virus infection in patients with acute posttransfusion hepatitis in Taiwan. Hwang SJ, et al. **Gastroenterology** 1997 Apr;112(4):1260–4

GB virus-C/hepatitis G virus infection in an area endemic for viral hepatitis, chronic liver disease, and liver cancer. Kao JH, et al. **Gastroenterology** 1997 Apr;112(4):1265–70

GBV-C and HGV: a new hepatitis virus? McDonnell WM, et al. **Gastroenterology** 1996 Dec;111(6):1776–8

Hepatitis G virus: identification, prevalence and unanswered questions. Karayiannis P, et al. **Gut** 1997 Mar;40(3):294–6

Hepatitis G virus co-infection does not alter the course of recurrent hepatitis C virus infection in liver transplantation recipients. Cotler SJ, et al. **Hepatology** 1997 Aug; 26(2):432–6

Does hepatitis GB virus-C infection cause hepatocellular carcinoma in black Africans? Lightfoot K, et al. **Hepatology** 1997 Sep;26(3):740–2

Non-alcoholic steatohepatitis and GB virus-C/hepatitis G virus infection: is there a casual relationship? [editorial; comment] Kiyosawa K. **Intern Med** 1997 Apr;36(4):236–7 . Comment on: Intern Med 1997 Apr;36(4):283–8.

Hepatitis G virus in liver disease: cause or case? [editorial] Raimondo G, et al. **Ital J Gastroenterol** 1996 Oct-Nov; 28(8):470–3 (28 ref.)

Coinfection of GB virus C with HIV-1 in Japan [letter] Shibayama T, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Aug 1;15(4):319–20

Impact of pretransplantation GB virus C infection on the outcome of renal transplantation. Murthy BV, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1164–73

G(ee): a new hepatitis virus [editorial] Malnick SD, et al. **J Clin Gastroenterol** 1997 Mar;24(2):62–4 (32 ref.)

Prevalence of hepatitis G viremia among healthy subjects, individuals with liver disease, and persons at risk for parenteral transmission. Feucht HH, et al. **J Clin Microbiol** 1997 Mar;35(3):767–8

Co-transmission of hepatitis C and G viruses [letter] Cretel E, et al. **J Hepatol** 1997 Aug;27(2):426

High prevalence and coinfection rate of hepatitis G and C infections in intravenous drug addicts. Diamantis I, et al. **J Hepatol** 1997 Apr;26(4):794–7

Clinical implications of GBV-C/HGV infection in patients with "HCV-related" chronic hepatitis. Francesconi R, et al. **J Hepatol** 1997 Jun;26(6):1165–72

High prevalence of hepatitis G virus after liver transplantation without apparent influence on long-term graft function. Haagsma EB, et al. **J Hepatol** 1997 Apr; 26(4):921–5

Transmission of hepatitis G virus in HCV-infected couples: myth or reality? [letter] Halfon P, et al. **J Hepatol** 1997 Aug;27(2):427

GBV-C/HGV is not the major cause of autoimmune hepatitis. Heringlake S, et al. **J Hepatol** 1996 Dec; 25(6):980–4

Poor association of GBV-C viremia with hepatocellular carcinoma. Kubo S, et al. **J Hepatol** 1997 Jul;27(1):91–5

Hepatitis G virus infection in chronic hepatitis C: frequency, features and response to interferon therapy. Sáiz JC, et al. **J Hepatol** 1997 Apr;26(4):787–93

Prevalence and clinical and histological manifestation of hepatitis G/GBV-C infections in patients with elevated aminotransferases of unknown etiology. Sarrazin C, et al. **J Hepatol** 1997 Aug;27(2):276–83

Parenteral and sexual transmission of GB virus C and hepatitis C virus among human immunodeficiency virus-positive patients [letter] Fiordalisi G, et al. **J Infect Dis** 1997 Apr;175(4):1025–6

Genetic evidence for mother-to-infant transmission of hepatitis G virus. Fischler B, et al. **J Infect Dis** 1997 Jul; 176(1):281–5

Persistence and clinical significance of hepatitis G virus infections in injecting drug users. Thomas DL, et al. **J Infect Dis** 1997 Sep;176(3):586–92

GB virus C/hepatitis G virus infection in southern China. Wu RR, et al. **J Infect Dis** 1997 Jan;175(1):168–71

GB virus-C/hepatitis G virus infection in prostitutes: possible role of sexual transmission. Kao JH, et al. **J Med Virol** 1997 Aug;52(4):381–4

Infection with GB virus C in patients with chronic liver disease. Sugai Y, et al. **J Med Virol** 1997 Mar;51(3):175–81

A new hepatitis C virus-like flavivirus in patients with cryptogenic liver disease associated with elevated GGT and alkaline phosphatase serum levels. Colombatto P, et al. **J Viral Hepat** 1997;4 Suppl 1:55–60

Hepatitis G virus infection: clinical characteristics and response to interferon. Karayiannis P, et al. **J Viral Hepat** 1997 Jan;4(1):37–44

Identification, prevalence and aspects of molecular biology of hepatitis G virus. Thomas HC, et al. **J Viral Hepat** 1997; 4 Suppl 1:51–4 (13 ref.)

Is hepatitis G virus transmitted sexually? [letter] Rubio A, et al. **JAMA** 1997 Feb 19;277(7):532–3

Hepatitis G virus infection in hemodialysis patients. Sampietro M, et al. **Kidney Int** 1997 Jan;51(1):348–52

GB virus C transmission by blood products [letter; comment] Feucht HH, et al. **Lancet** 1997 Feb 8;349(9049):435. Comment on: Lancet 1996 Dec 14;348(9042):1626–9.

Infection with hepatitis G virus among recipients of plasma products [see comments] Jarvis LM, et al. **Lancet** 1996 Nov 16;348(9038):1352–5. Comment in: Lancet 1997 Jan 18;349(9046):206. Comment in: Lancet 1997 Jan 18;349(9046):206–7. Comment in: Lancet 1997 Jan 18;349(9046):207.

GBV-C/HGV infection and aplastic anaemia [letter; comment] Kao JH, et al. **Lancet** 1996 Oct 12; 348(9033):1032–3. Comment on: Lancet 1996 Aug 17;348(9025):471–2. Comment on: Lancet 1996 Aug 17;348(9025):472.

Blood-bank screening for hepatitis G [letter; comment] Kao JH, et al. **Lancet** 1997 Jan 18;349(9046):207. Comment on: Lancet 1996 Nov 9;348(9037):1318–9.

HGV: hepatitis G virus or harmless G virus? Kew MC, et al. **Lancet** 1996 Dec 21–28;348 Suppl 2:sII10 (5 ref.)

Infection with hepatitis G virus in immunoglobulin recipients [letter; comment] Lefrère JJ, et al. **Lancet** 1997 Jan 18; 349(9046):206. Comment on: Lancet 1996 Nov 16;348(9038):1352–5.

Prevalence of hepatitis G virus in Queensland blood donors. Moaven LD, et al. **Med J Aust** 1996 Oct 7;165(7):369–71

Hepatitis G virus and post-transplantation hepatitis [letter] Belli LS, et al. **N Engl J Med** 1996 Oct 31;335(18):1394–5

Hepatitis-associated aplastic anemia [letter; comment] Kiem HP, et al. **N Engl J Med** 1997 Aug 7;337(6):424–5. Comment on: N Engl J Med 1997 Apr 10;336(15):1059–64.

Hepatitis G virus—a true hepatitis virus or an accidental tourist? [editorial; comment] [see comments] Miyakawa Y, et al. **N Engl J Med** 1997 Mar 13;336(11):795–6. Comment on: N Engl J Med 1997 Mar 13;336(11):741–6. Comment on: N Engl J Med 1997 Mar 13;336(11):747–54. Comment in: N Engl J Med 1997 Jul 24;337(4):277.

Hepatitis GB virus C [letter] Tomás JF, et al. **N Engl J Med** 1996 Oct 31;335(18):1393

Hepatitis GB virus C [letter] Yoshiba M, et al. **N Engl J Med** 1996 Oct 31;335(18):1392–3

Hepatitis G virus infection in haemodialysed patients: epidemiology and clinical relevance. Cornu C, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1326–9

Hepatitis G virus infection in chronic dialysis patients and kidney transplant recipients. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1645–51

Hepatitis G virus infection in a haemodialysis unit: prevalence and clinical implications. Forns X, et al. **Nephrol Dial Transplant** 1997 May;12(5):956–60

Hepatitis G virus: an old, but newly discovered hepatotropic virus—is it of interest for the nephrologist? [editorial] Schlaak JF, et al. **Nephrol Dial Transplant** 1996 Aug; 11(8):1522–3

GB virus C and hepatitis C virus infections in hemodialysis patients in eight Japanese centers. Watanabe T, et al. **Nephron** 1997;76(2):171–5

The newly discovered non A–E hepatitis viruses. Songsivilai S, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar;27(1):75–9 (12 ref.)

G-pers creepers, where'd you get those papers? A reassessment of the literature on the hepatitis G virus [editorial; comment] Alter HJ. **Transfusion** 1997 Jun; 37(6):569–72. Comment on: Transfusion 1997 Jun;37(6):645–50. Comment on: Transfusion 1997 Jun;37(6):651–6. Comment on: Transfusion 1997 Jun;37(6):657–63.

Prevalence of hepatitis G virus RNA in French blood donors and recipients [see comments] Loiseau P, et al. **Transfusion** 1997 Jun;37(6):645–50. Comment in: Transfusion 1997 Jun;37(6):569–72.

Prevalence of hepatitis G virus and its strain variant, the GB agent, in blood donations and their transmission to recipients [see comments] Roth WK, et al. **Transfusion** 1997 Jun;37(6):651–6. Comment in: Transfusion 1997 Jun;37(6):569–72.

Infection with hepatitis G virus and its strain variant, the GB agent (GBV-C), among blood donors in Japan [see comments] Yoshikawa A, et al. **Transfusion** 1997 Jun; 37(6):657–63. Comment in: Transfusion 1997 Jun;37(6):569–72.

Hepatitis HGV/GBV-C viremia in renal transplant recipients. Lustig S, et al. **Transplant Proc** 1997 Sep; 29(6):2694–5

Hepatitis GBV-C viremia in liver, heart, and bone marrow recipients. Zemel R, et al. **Transplant Proc** 1997 Sep; 29(6):2653–4

High prevalence of GB virus-C/hepatitis G virus infection in liver transplant recipients. Dickson RC, et al. **Transplantation** 1997 Jun 15;63(11):1695–7

Prevalence of hepatitis G virus infection in kidney transplant recipients. Dussol B, et al. **Transplantation** 1997 Aug 15; 64(3):537–9

Hepatitis G virus coinfection in hepatitis C virus-infected liver transplant recipients. Vargas HE, et al.

Transplantation 1997 Sep 15;64(5):786–8
Transfusion-related hepatitis G virus infections in heart transplant recipients [letter] Wolff D, et al. **Transplantation** 1996 Dec 15;62(11):1697–8
The alphabet soup of viral hepatitis: is G a new flavi(or) in the mix? [editorial; comment] Bonkovsky HL. **West J Med** 1997 Jul;167(1):50–1. Comment on: West J Med 1997 Jul;167(1):23–33.
Hepatitis G virus: is it a hepatitis virus? [see comments] Cheung RC, et al. **West J Med** 1997 Jul;167(1):23–33 (81 ref.). Comment in: West J Med 1997 Jul;167(1):50–1.
[In the alphabet of hepatitis: the G virus] Garnotel E, et al. **Med Trop (Mars)** 1997;57(1):15–22 (65 ref.) **(Fre)**
[Hepatitis G virus infection: the epidemiological aspects and clinical relevance] Berg T, et al. **Dtsch Med Wochenschr** 1997 Feb 28;122(9):268–74 (53 ref.) **(Ger)**
[New hepatitis viruses] Gerok W. **Schweiz Rundsch Med Prax** 1997 Jul 16;86(29–30):1160–2 (9 ref.) (Eng. Abstr.) **(Ger)**
[New hepatotoxic viruses] Zamir D, et al. **Harefuah** 1997 Mar 2;132(5):338–41 (23 ref.) **(Heb)**
[Interferon treatment for hepatitis G virus infection in patients with chronic hepatitis C] Baba T, et al. **Nippon Rinsho** 1997 Mar;55(3):625–30 (Eng. Abstr.) **(Jpn)**
[Clinical features of acute hepatitis G] Hayashi S, et al. **Nippon Rinsho** 1997 Mar;55(3):613–6 (Eng. Abstr.) **(Jpn)**
[HGV is rare but possible causative agent of non-A non-B fulminant hepatitis] Ishikawa K, et al. **Nippon Rinsho** 1997 Mar;55(3):621–4 (Eng. Abstr.) **(Jpn)**
[Non-A-E acute and chronic hepatitis in Japan] Kobayashi M, et al. **Nippon Rinsho** 1997 Mar;55(3):530–4 (14 ref.) (Eng. Abstr.) **(Jpn)**
[Infection with hepatitis GB virus C in intravenous drug abusers with type C chronic liver diseases] Kojima M, et al. **Nippon Rinsho** 1997 Mar;55(3):549–53 (15 ref.) (Eng. Abstr.) **(Jpn)**
[Epidemiology of hepatitis G virus infection in Japan] Nakatsuji Y, et al. **Nippon Rinsho** 1997 Mar;55(3):604–8 (13 ref.) (Eng. Abstr.) **(Jpn)**
[Hepatitis G virus (HGBV-C/HGV) as a putative agent for non-A to E hepatitis] Okamoto H. **Nippon Rinsho** 1997 Mar;55(3):515–22 (32 ref.) (Eng. Abstr.) **(Jpn)**
[Coinfection of hepatitis C virus and hepatitis G virus in patients with chronic hepatitis] Oshita M, et al. **Nippon Rinsho** 1997 Mar;55(3):617–20 (4 ref.) (Eng. Abstr.) **(Jpn)**
[Frequency of hepatitis GB virus C in patients on maintenance hemodialysis] Shimizu M, et al. **Nippon Rinsho** 1997 Mar;55(3):545–8 (13 ref.) (Eng. Abstr.) **(Jpn)**
[An epidemiological study of HGV infection in an epidemic area of HCV infection in Japan] Shinzawa H, et al. **Nippon Rinsho** 1997 Mar;55(3):609–12 (Eng. Abstr.) **(Jpn)**
[HGBV-C infection in patients with chronic liver disease] Sugai Y, et al. **Nippon Rinsho** 1997 Mar;55(3):564–8 (17 ref.) (Eng. Abstr.) **(Jpn)**
[GB virus C/hepatitis G virus infection in patients with chronic non-B, non-C hepatitis] Tanaka E. **Nippon Rinsho** 1997 Mar;55(3):559–63 (11 ref.) (Eng. Abstr.) **(Jpn)**
[Hepatitis GB virus C infection in Japanese hemophiliacs with persistent hepatitis C virus infection] Toyoda H, et al. **Nippon Rinsho** 1997 Mar;55(3):554–8 (Eng. Abstr.) **(Jpn)**
[Diagnostic criteria for Non-ABCDE hepatitis] Yatsuhashi H, et al. **Nippon Rinsho** 1997 Mar;55(3):523–9 (17 ref.) (Eng. Abstr.) **(Jpn)**
[A case of chronic GBV-C hepatitis with diabetes mellitus which developed pure red cell aplasia] Kaneko T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):133–8 **(Jpn)**
[Contribution to the study of viral hepatitis E and G] Piédrola Angulo G. **An R Acad Nac Med (Madr)** 1996;113(3):629–42 (22 ref.) **(Spa)**
[Hepatitis G virus (HGV)] Berenguer M, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):529–33 (41 ref.) **(Spa)**

CHEMISTRY

Detection of GB virus-C/hepatitis G virus RNA in serum by reverse transcription polymerase chain reaction. Bhardwaj B, et al. **J Med Virol** 1997 May;52(1):92–6
Prevalence and risk factor analysis of GBV-C/HGV infection in prostitutes. Wu JC, et al. **J Med Virol** 1997 May;52(1):83–5

CLASSIFICATION

Three different GB virus C/hepatitis G virus genotypes. Phylogenetic analysis and a genotyping assay based on restriction fragment length polymorphism. Mukaide M, et al. **FEBS Lett** 1997 Apr 21;407(1):51–8
Genetic diversity between hepatitis G virus isolates: analysis of nucleotide variation in the NS-3 and putative 'core' peptide genes. Pickering JM, et al. **J Gen Virol** 1997 Jan; 78 (Pt 1):53–60
[Epidemiology and clinical significance of the newly discovered GB,G hepatitis viruses] Fehér J, et al. **Orv Hetil** 1997 Jan 5;138(1):3–6 (Eng. Abstr.) **(Hun)**

DRUG EFFECTS

Effect of interferon-alpha and ribavirin therapy on serum GB virus C/hepatitis G virus (GBV-C/HGV) RNA levels in patients chronically infected with hepatitis C virus and GBV-C/HGV. Lau JY, et al. **J Infect Dis** 1997 Aug; 176(2):421–6
Effect of interferon on GB virus C and hepatitis C virus in hepatitis patients with the co-infection. Nagayama R, et al. **J Med Virol** 1997 Jun;52(2):156–60

ENZYMOLOGY

GB virus B and hepatitis C virus NS3 serine proteases share substrate specificity. Scarselli E, et al. **J Virol** 1997 Jul; 71(7):4985–9
Five new or recently discovered (GBV-A) virus species are indigenous to New World monkeys and may constitute a separate genus of the Flaviviridae. Bukh J, et al. **Virology** 1997 Mar 17;229(2):429–36

GENETICS

New variant groups identified from HGV isolates. Katayama K, et al. **Arch Virol** 1997;142(5):1021–8
Sequence characterization of the 5' noncoding region of GB virus C/hepatitis G virus. Ding M, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):606–9
Sequence of hepatitis G virus genome isolated from a Japanese patient with non-A-E-hepatitis: amplification and cloning by long reverse transcription-PCR. Shao L, et al. **Biochem Biophys Res Commun** 1996 Nov 21;228(3):785–91
GB virus C RNA in serum, liver, and peripheral blood mononuclear cells from patients with chronic hepatitis B, C, and D. Madejón A, et al. **Gastroenterology** 1997 Aug; 113(2):573–8
Infection with GB virus C in female prisoners who were drug abusers in Japan [letter] Yui K, et al. **Infection** 1996 Sep-Oct;24(5):392
Reverse transcription-PCR detection of hepatitis G virus. Schlueter V, et al. **J Clin Microbiol** 1996 Nov;34(11):2660–4
Molecular cloning and characterization of a GB virus C isolate from a patient with non-A-E hepatitis. Erker JC, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2713–20
The sequence and genomic organization of a GB virus A variant isolated from captive tamarins. Leary TP, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2307–13
The entire nucleotide sequences of two GB virus C/hepatitis G virus isolates of distinct genotypes from Japan. Okamoto H, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):737–45
Genetic diversity between hepatitis G virus isolates: analysis of nucleotide variation in the NS-3 and putative 'core' peptide genes. Pickering JM, et al. **J Gen Virol** 1997 Jan; 78 (Pt 1):53–60
Discrimination of hepatitis G virus/GBV-C geographical variants by analysis of the 5' non-coding region. Smith DB, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1533–42
Genetic heterogeneity of hepatitis G virus isolates from different parts of the world. Viazov S, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):577–81
Clinical presentation of GB-C virus infection in drug abusers with chronic hepatitis C. Goeser T, et al. **J Hepatol** 1997 Mar;26(3):498–502
Sequence heterogeneity within the 5'-terminal region of the hepatitis GB virus C genome and evidence for genotypes. Muerhoff AS, et al. **J Hepatol** 1996 Sep;25(3):379–84
Hepatitis GBV-C sequences in patients infected with HCV contaminated anti-D immunoglobulin and among i.v. drug users in Germany. Schreier E, et al. **J Hepatol** 1996 Sep; 25(3):385–9
Infection with GB virus C (GBV-C) in patients with fulminant hepatitis. Tameda Y, et al. **J Hepatol** 1996 Dec; 25(6):842–7
Transmission of GBV-C/HGV from drug-addicted mothers to their babies. Viazov S, et al. **J Hepatol** 1997 Jul; 27(1):85–90
High prevalence of GB virus C/hepatitis G virus in healthy persons in Ho Chi Minh City, Vietnam. Brown KE, et al. **J Infect Dis** 1997 Feb;175(2):450–3
Molecular investigation of GB virus C infection in hemophiliacs in Japan. Kinoshita T, et al. **J Infect Dis** 1997 Feb;175(2):454–7
Detection of GB virus-C/hepatitis G virus RNA in serum by reverse transcription polymerase chain reaction. Bhardwaj B, et al. **J Med Virol** 1997 May;52(1):92–6
High prevalence of GB virus C strains genetically related to strains with Asian origin in Nicaraguan hemophiliacs. González-Pérez MA, et al. **J Med Virol** 1997 Jun; 52(2):149–55
Amplification of GB virus-C/hepatitis G virus RNA with primers from different regions of the viral genome. Kao JH, et al. **J Med Virol** 1997 Apr;51(4):284–9
Infection with GB virus C/hepatitis G virus in Brazilian hemodialysis and hepatitis patients and asymptomatic individuals. Lampe E, et al. **J Med Virol** 1997 May; 52(1):61–7
Hepatitis C virus genotypes in different regions of the former Soviet Union (Russia, Belarus, Moldova, and Uzbekistan). Viazov S, et al. **J Med Virol** 1997 Sep;53(1):36–40
Infection with GB virus C and hepatitis C virus in hemodialysis patients and blood donors in Beijing. Wang Y, et al. **J Med Virol** 1997 May;52(1):26–30
Prevalence and risk factor analysis of GBV-C/HGV infection in prostitutes. Wu JC, et al. **J Med Virol** 1997 May;52(1):83–5
Detection of hepatitis G virus RNA in patients with hepatitis B, hepatitis C, and non-A-E hepatitis by RT-PCR using multiple primer sets. Zhang XH, et al. **J Med Virol** 1997 Aug;52(4):385–90
GB virus infection in patients with oral cancer and oral lichen planus. Nagao Y, et al. **J Oral Pathol Med** 1997 Mar; 26(3):138–41
Hepatitis G virus RNA in the serum of patients with elevated gamma glutamyl transpeptidase and alkaline phosphatase: a specific liver disease? [corrected] [published erratum appears in J Viral Hepat 1997 Mar;4(2):143] Colombatto P, et al. **J Viral Hepat** 1996 Nov;3(6):301–6
Molecular characterization of the hepatitis G virus. Kim JP, et al. **J Viral Hepat** 1997 Mar;4(2):77–9 (8 ref.)
Predicted secondary structure of the hepatitis G virus and GB virus-A 5'untranslated regions consistent with an internal ribosome entry site. Pickering JM, et al. **J Viral Hepat** 1997 May;4(3):175–84
Sequence variation within a nonstructural region of the hepatitis G virus genome. Khudyakov YE, et al. **J Virol** 1997 Sep;71(9):6875–80
Species-specific variants of GB virus A in captive monkeys. Leary TP, et al. **J Virol** 1996 Dec;70(12):9028–30
Identification of GB virus C variants by phylogenetic analysis of 5'-untranslated and coding region sequences. Muerhoff AS, et al. **J Virol** 1997 Sep;71(9):6501–8
Identification of conserved nucleotide sequences within the GB virus C 5'-untranslated region: design of PCR primers for detection of viral RNA. Muerhoff AS, et al. **J Virol Methods** 1996 Oct;62(1):55–62
Cloning and characterization of the extreme 5'-terminal sequences of the RNA genomes of GB virus C/hepatitis G virus. Hsieh SY, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):3206–10
Hepatitis G virus infection in Japanese patients with chronic liver disease [letter] Shimoda A, et al. **Transfusion** 1997 Sep;37(9):985–6
Hepatitis G virus RNA and hepatitis G virus antibodies in renal transplant recipients: prevalence and risk factors. Stark K, et al. **Transplantation** 1997 Aug 27;64(4):608–12
Mutation rate of GB virus C/hepatitis G virus over the entire genome and in subgenomic regions. Nakao H, et al. **Virology** 1997 Jun 23;233(1):43–50
Expression of the GB virus C E2 glycoprotein using the Semliki Forest virus vector system and its utility as a serologic marker. Pilot-Matias TJ, et al. **Virology** 1996 Nov 15;225(2):282–92
Sequence analysis of hepatitis GB virus C (GBV-C) isolates from 14 patients. Seipp S, et al. **Virus Res** 1996 Dec; 46(1-2):81–8
[Molecular evolutionary analysis of GB viruses and hepatitis G virus] Ohba K, et al. **Nippon Rinsho** 1997 Mar; 55(3):540–4 (16 ref.) (Eng. Abstr.) **(Jpn)**
[Comparison between HGV genome and HGBV-C genome] Shimoda A, et al. **Nippon Rinsho** 1997 Mar;55(3):597–603 (5 ref.) (Eng. Abstr.) **(Jpn)**
[Detection of HGBV-C genome in patients with fulminant hepatitis in Japan—using stored serum of 44 cases for last 25 years] Tameda Y, et al. **Nippon Rinsho** 1997 Mar; 55(3):569–76 **(Jpn)**
[Genetic organization of GBV-C] Yamaguchi K, et al. **Nippon Rinsho** 1997 Mar;55(3):535–9 (10 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Association of circulating hepatitis G virus with lipoproteins for a lack of binding with antibodies. Sato K, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):719–25
Distribution of hepatitis G viremia and antibody response to recombinant proteins with special regard to risk factors in 709 patients. Feucht HH, et al. **Hepatology** 1997 Aug; 26(2):491–4
An ELISA for detection of antibodies to the E2 protein of GB virus C. Dille BJ, et al. **J Infect Dis** 1997 Feb; 175(2):458–61
Infection with hepatitis G virus in immunoglobulin recipients [letter; comment] Berger A, et al. **Lancet** 1997 Jan 18; 349(9046):207. Comment on: Lancet 1996 Nov 16;348(9038):1352–5.
Hepatitis G virus infection [letter; comment] Karayiannis P, et al. **Lancet** 1997 Mar 29;349(9056):954. Comment on: Lancet 1997 Feb 1;349(9048):318–20.
Hepatitis G virus infection [letter; comment] Schleicher S, et al. **Lancet** 1997 Mar 29;349(9056):954–5. Comment on: Lancet 1997 Feb 1;349(9048):318–20.
Detection of antibodies to a putative hepatitis G virus envelope protein [see comments] Tacke M, et al. **Lancet** 1997 Feb 1;349(9048):318–20. Comment in: Lancet 1997 Mar 29;349(9056):954. Comment in: Lancet 1997 Mar 29;349(9056):954–5.
Prevalence of hepatitis G virus antibodies in Queensland blood donors [letter] Moaven LD, et al. **Med J Aust** 1997 May 5;166(9):507, 509

ISOLATION & PURIFICATION

Plus- and minus-stranded hepatitis G virus RNA in liver tissue and in peripheral blood mononuclear cells. Saito S, et al. **Biochem Biophys Res Commun** 1997 Aug 18; 237(2):288–91
Prevalence of hepatitis G virus in patients with aplastic

anemia [letter] Kiem HP, et al. **Blood** 1997 Aug 1; 90(3):1335–6

High prevalence of hepatitis G virus in bone marrow transplant recipients and patients treated for acute leukemia. Skidmore SJ, et al. **Blood** 1997 May 15; 89(10):3853–6

Detection of hepatitis G virus from serum and liver of a patient with long–term liver dysfunction after autologous bone marrow transplantation. Tomás JF, et al. **Bone Marrow Transplant** 1997 May;19(10):1053–7

Prevalence of GBV–C/HGV, a novel 'hepatitis' virus, in patients with aplastic anaemia. Brown KE, et al. **Br J Haematol** 1997 May;97(2):492–6

Hepatitis GB virus C genome in the serum of aplastic anaemia patients receiving frequent blood transfusions [see comments] Moriyama K, et al. **Br J Haematol** 1997 Mar; 96(4):864–7. Comment in: Br J Haematol 1997 Aug;98(2):495.

Hepatitis G virus infection in patients with hepatitis C virus infection undergoing liver transplantation. Berenguer M, et al. **Gastroenterology** 1996 Dec;111(6):1569–75

Hepatitis G virus co–infection in liver transplantation recipients with chronic hepatitis C and nonviral chronic liver disease. Fried MW, et al. **Hepatology** 1997 May; 25(5):1271–5

Detection of GBV–C RNA in patients with non–A–E fulminant hepatitis by reverse–transcription polymerase chain reaction. Kanda T, et al. **Hepatology** 1997 May; 25(5):1261–5

The 18th United States–Japan Joint Hepatitis Panel Meeting. Lemon SM, et al. **Hepatology** 1997 May;25(5):1287–91

Detection of hepatitis GB virus type C RNA in serum and liver from children with chronic viral hepatitis B and C. López–Alcorocho JM, et al. **Hepatology** 1997 May; 25(5):1258–60

Hepatitis G virus in patients with cryptogenic liver disease undergoing liver transplantation. Pessoa MG, et al. **Hepatology** 1997 May;25(5):1266–70

GB virus C, hepatitis G virus, or human orphan flavivirus? [editorial] Theodore D, et al. **Hepatology** 1997 May; 25(5):1285–6

Infection with GB virus C in female prisoners who were drug abusers in Japan [letter] Yui K, et al. **Infection** 1996 Sep–Oct;24(5):392

HGV/HGBV–C, a new virus in the dialysis setting [editorial] Beccari M. **Int J Artif Organs** 1997 Jan;20(1):12–3 (10 ref.)

Detection of hepatitis G virus (GB virus C) RNA in human saliva. Chen M, et al. **J Clin Microbiol** 1997 Apr;35(4):973–5

Reverse transcription–PCR detection of hepatitis G virus. Schlueter V, et al. **J Clin Microbiol** 1996 Nov;34(11):2660–4

Responsiveness to interferon alpha treatment in patients with chronic hepatitis C coinfected with hepatitis G virus. Berg T, et al. **J Hepatol** 1996 Nov;25(5):763–8

Detection of the hepatitis G virus genome among injecting drug users, homosexual and bisexual men, and blood donors. Stark K, et al. **J Infect Dis** 1996 Dec;174(6):1320–3

Prevalence and genotype of hepatitis G virus in Chinese professional blood donors and hepatitis patients. Wang HL, et al. **J Infect Dis** 1997 May;175(5):1229–33

Detection of hepatitis G virus (HGV) RNA: clinical characteristics of acute HGV infection. Yashina TL, et al. **J Infect Dis** 1997 Jun;175(6):1302–7

Follow–up of four HIV–infected individuals after administration of hepatitis C virus and GBV–C/hepatitis G virus contaminated intravenous immunoglobulin: evidence for HCV but not for GBV–C/HGV transmission. Berger A, et al. **J Med Virol** 1997 Sep;53(1):25–30

Prevalence studies of GB virus–C infection using reverse transcriptase–polymerase chain reaction. Dawson GJ, et al. **J Med Virol** 1996 Sep;50(1):97–103

High prevalence of GB virus C strains genetically related to strains with Asian origin in Nicaraguan hemophiliacs. González–Pérez MA, et al. **J Med Virol** 1997 Jun; 52(2):149–55

Prevalence and molecular epidemiology of GB virus C/hepatitis G virus infection in Mongolia. Kondo Y, et al. **J Med Virol** 1997 Jun;52(2):143–8

Identification of GBV–C hepatitis G RNA in chronic hepatitis C patients. Schleicher S, et al. **J Med Virol** 1996 Sep;50(1):71–4

Infection with GB virus C (GBV–C) in patients with chronic liver disease or on maintenance hemodialysis in Indonesia. Tsuda F, et al. **J Med Virol** 1996 Jul;49(3):248–52

Detection of hepatitis G virus RNA in patients with hepatitis B, hepatitis C, and non–A–E hepatitis by RT–PCR using multiple primer sets. Zhang XH, et al. **J Med Virol** 1997 Aug;52(4):385–90

The clinical significance of the detection of hepatitis GBV–C RNA in the serum of patients with fulminant, presumed viral, hepatitis. Haydon GH, et al. **J Viral Hepat** 1997 Jan; 4(1):45–9

Prevalence and disease association of hepatitis G virus infection in Japan. Nakatsuji Y, et al. **J Viral Hepat** 1996 Nov;3(6):307–16

Evaluation of four PCR systems amplifying different genomic regions for molecular diagnosis of GB virus C infections. Cantaloube JF, et al. **J Virol Methods** 1997 Mar;64(2):131–5

HGV in coagulation–factor concentrates [letter] García–Trevijano ER, et al. **Lancet** 1996 Oct 12; 348(9033):1032

Long–term persistence of hepatitis G virus in immunocompetent patients [letter; comment] Lefrere JJ, et al. **Lancet** 1996 Oct 26;348(9035):1174–5. Comment on: Lancet 1996 Sep 14;348(9029):751.

Hepatitis G virus in Karachi, Pakistan [letter] [see comments] Moatter T, et al. **Lancet** 1996 Nov 9;348(9037):1318–9. Comment in: Lancet 1997 Jan 18;349(9046):207.

Hepatitis G virus in India [letter] Panda SK, et al. **Lancet** 1996 Nov 9;348(9037):1319

Infection with hepatitis G virus in immunoglobulin recipients [letter; comment] Vento S, et al. **Lancet** 1997 Jan 18; 349(9046):206–7. Comment on: Lancet 1996 Nov 16;348(9038):1352–5.

The incidence of transfusion–associated hepatitis G virus infection and its relation to liver disease [see comments] Alter HJ, et al. **N Engl J Med** 1997 Mar 13;336(11):747–54 . Comment in: N Engl J Med 1997 Mar 13;336(11):795–6. Comment in: N Engl J Med 1997 Jul 24;337(4):276–7. Comment in: N Engl J Med 1997 Jul 24;337(4):277.

Acute non–A–E hepatitis in the United States and the role of hepatitis G virus infection. Sentinel Counties Viral Hepatitis Study Team [see comments] Alter MJ, et al. **N Engl J Med** 1997 Mar 13;336(11):741–6. Comment in: N Engl J Med 1997 Mar 13;336(11):795–6. Comment in: N Engl J Med 1997 Jul 24;337(4):276–7. Comment in: N Engl J Med 1997 Jul 24;337(4):277.

Hepatitis G infection [letter; comment] Goedert JJ, et al. **N Engl J Med** 1997 Jul 24;337(4):277. Comment on: N Engl J Med 1997 Mar 13;336(11):741–6. Comment on: N Engl J Med 1997 Mar 13;336(11):747–54. Comment on: N Engl J Med 1997 Mar 13;336(11):795–6.

Hepatitis G infection [letter; comment] Kudo T, et al. **N Engl J Med** 1997 Jul 24;337(4):276–7. Comment on: N Engl J Med 1997 Mar 13;336(11):741–6. Comment on: N Engl J Med 1997 Mar 13;336(11):747–54.

Hepatitis GB virus C [letter] Sampietro M, et al. **N Engl J Med** 1996 Oct 31;335(18):1392; discussion 1394

Hepatitis HGV/GBV–C in New Zealand blood donors [letter] Woodfield G. **N Z Med J** 1997 Mar 28; 110(1040):108

GBV–C/HGV: a new human hepatitis–related virus. Zanetti AR, et al. **Res Virol** 1997 Mar–Apr;148(2):119–22

Hepatitis G virus/GB virus C in Brazil. Preliminary report. Pinho JR, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):243–6

Hepatitis GBV–C in South Africa [letter] Casteling A, et al. **S Afr Med J** 1997 Feb;87(2):182–3

Hepatitis G viral RNA in serum and in peripheral blood mononuclear cells and its relation to HCV–RNA in patients with clotting disorders. Sheng L, et al. **Thromb Haemost** 1997 May;77(5):868–72

Transfusion–transmitted hepatitis G virus following open heart surgery [letter] Shimizu M, et al. **Transfusion** 1996 Oct;36(10):937

GB virus C infection in patients with chronic hepatitis B and C before and after liver transplantation. Berg T, et al. **Transplantation** 1996 Sep 27;62(6):711–4

GB hepatitis agent in cadaver organ donors and their recipients. Murthy BV, et al. **Transplantation** 1997 Feb 15; 63(3):346–51

Hepatitis G virus [editorial] Dasarathy S. **Trop Gastroenterol** 1997 Jan–Mar;18(1):1–2

High prevalence of GB virus C/hepatitis G virus infection among the Jewish population in Uzbekistan. Kato T, et al. **Virus Res** 1997 Apr;48(1):81–7

GB virus C (GBV–C)/hepatitis G virus (HGV) infection among intravenous drug users in Japan. Noguchi S, et al. **Virus Res** 1997 Jun;49(2):155–62

GB virus C/hepatitis G virus infection among Japanese patients with chronic liver diseases and blood donors. Orito E, et al. **Virus Res** 1996 Dec;46(1–2):89–93

GB virus C/hepatitis G virus infection among Korean patients with liver diseases and general population. Park YM, et al. **Virus Res** 1997 May;48(2):185–92

Sequence analysis of hepatitis GB virus C (GBV–C) isolates from 14 patients. Seipp S, et al. **Virus Res** 1996 Dec; 46(1–2):81–8

Transmission of GB virus C by blood transfusions during heart surgery. Shimizu M, et al. **Vox Sang** 1997;72(2):76–8

[Bone marrow aplasia and hepatitis G virus: what relation? (letter)] Lellouche F, et al. **Presse Med** 1997 Jan 18–25; 26(1):16 **(Fre)**

[Changes of serum GBV–C RNA levels under administration of interferon and cyclosporine for patients with GBV infected hepatitis] Fujikawa H, et al. **Nippon Rinsho** 1997 Mar;55(3):591–6 (26 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical features of HGBV–C–related liver cancer] Kanda T, et al. **Nippon Rinsho** 1997 Mar;55(3):587–90 (Eng. Abstr.) **(Jpn)**

[Detection of GBV–C RNA among non B non C hepatocellular carcinoma patients] Kitamoto M, et al. **Nippon Rinsho** 1997 Mar;55(3):583–6 (6 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

GB virus C E2 glycoprotein: expression in CHO cells, purification and characterization. Surowy TK, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1851–9

PATHOGENICITY

Pathobiology and consequences of the discovery of the hepatitis G virus [editorial] Kew MC. **Eur J Clin Invest** 1997 Jul;27(7):541–2 (11 ref.)

Chronic hepatitis infected with hepatitis GB virus type C/hepatitis G virus presenting as non–alcoholic steatohepatitis [see comments] Saito H, et al. **Intern Med** 1997 Apr;36(4):283–8. Comment in: Intern Med 1997 Apr;36(4):236–7.

Does the hepatitis G virus cause hepatitis? Loya F. **Tex Med** 1996 Dec;92(12):68–73 (23 ref.)

The pathogenicity of hepatitis G [letter] Herschfus MS. **Transplantation** 1997 Feb 15;63(3):485

[Causal relationship between GBV–C and fulminant hepatitis] Inoue K, et al. **Nippon Rinsho** 1997 Mar;55(3):578–82 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The hepatitis G virus] Burkov AN, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Mar–Apr; (2):94–7 (16 ref.) **(Rus)**

[GBV–C agent/hepatitis G virus: a new hepatitis virus? (editorial)] Echevarria JM, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):177–9 **(Spa)**

PHYSIOLOGY

Hepatitis G virus replication in human cultured cells displaying susceptibility to hepatitis C virus infection. Ikeda M, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):505–8

Lack of evidence for hepatitis G virus replication in the livers of patients coinfected with hepatitis C and G viruses. Laskus T, et al. **J Virol** 1997 Oct;71(10):7804–6

Association between fulminant hepatic failure and a strain of GBV virus C [see comments] Heringlake S, et al. **Lancet** 1996 Dec 14;348(9042):1626–9. Comment in: Lancet 1997 Feb 8;349(9049):435.

HEPATITIS, ALCOHOLIC

BLOOD

Role of serum interleukin–8 and intercellular adhesion molecule–1 in the severity of alcoholic hepatitis. Ishii K, et al. **Alcohol Alcohol** 1994;29 Suppl 1:81–5

Serial measurement of serum C–reactive protein facilitates evaluation in alcoholic hepatitis. Gupta S, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):516–21

Hepatocyte proliferation and serum hepatocyte growth factor levels in patients with alcoholic hepatitis. Hillan KJ, et al. **J Hepatol** 1996 Apr;24(4):385–90

COMPLICATIONS

Kaposi's sarcoma in severe alcoholic hepatitis. Colli A, et al. **Eur J Gastroenterol Hepatol** 1997 Feb;9(2):215–6

DIAGNOSIS

Fever, abdominal pain, and jaundice in a 43–year–old woman. Longworth DL, et al. **Cleve Clin J Med** 1997 Apr; 64(4):216–9

DRUG THERAPY

Survival and prognostic factors in patients with severe alcoholic hepatitis treated with prednisolone. Mathurin P, et al. **Gastroenterology** 1996 Jun;110(6):1847–53

GENETICS

Effect of alcohol drinking on gene expression of hepatic O6–methylguanine DNA methyltransferase in chronic liver diseases. Miyakawa H, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):297A–300A

Association of a tumor necrosis factor promoter polymorphism with susceptibility to alcoholic steatohepatitis [see comments] Grove J, et al. **Hepatology** 1997 Jul;26(1):143–6. Comment in: Hepatology 1997 Jul;26(1):232–3.

Does tumor necrosis factor play a role in alcoholic steatohepatitis? The potential pitfalls of a case–controlled allelic association analysis [editorial; comment] Wilhelmsen KC. **Hepatology** 1997 Jul;26(1):232–3. Comment on: Hepatology 1997 Jul;26(1):143–6.

Polymorphism in the cytochrome P450 2E1 gene and the risk of alcoholic liver disease. Savolainen VT, et al. **J Hepatol** 1997 Jan;26(1):55–61

IMMUNOLOGY

Is apoptosis involved in alcoholic hepatitis? Kawahara H, et al. **Alcohol Alcohol** 1994;29 Suppl 1:113–8

Abnormalities of peripheral blood T lymphocytes and natural killer cells in alcoholic hepatitis persist after a 3–month withdrawal period. Laso FJ, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):672–6

Antiphospholipid antibodies in patients with chronic hepatitis C virus infection or alcoholic liver disease. Preliminary results. Biron C, et al. **Ann Med Interne (Paris)** 1996 Sep; 147 Suppl 1:48–9

METABOLISM

Increased hepatocyte CYP2E1 expression in a rat nutritional model of hepatic steatosis with inflammation. Weltman MD, et al. **Gastroenterology** 1996 Dec;111(6):1645–53

Ethanol feeding enhances inflammatory cytokine expression in lipopolysaccharide–induced hepatitis. Pennington HL, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):305–13

HEPATITIS, ALCOHOLIC

MORTALITY

Prognostic factors for short-term survival in alcoholic hepatitis in Japan: analysis by logistic regression. Kumashiro R, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):383A-386A

PATHOLOGY

Fatty acid composition of liver total lipids in alcoholic patients with and without liver damage. de la Maza MP, et al. **Alcohol Clin Exp Res** 1996 Nov;20(8):1418-22

Chemokine levels in human liver homogenates: associations between GRO alpha and histopathological evidence of alcoholic hepatitis. Maltby J, et al. **Hepatology** 1996 Nov; 24(5):1156-60

Hepatocyte proliferation and serum hepatocyte growth factor levels in patients with alcoholic hepatitis. Hillan KJ, et al. **J Hepatol** 1996 Apr;24(4):385-90

THERAPY

The treatment of alcoholic hepatitis. Morgan MY. **Alcohol Alcohol** 1996 Mar;31(2):117-34 (105 ref.)

Fever, abdominal pain, and jaundice in a 43-year-old woman. Longworth DL, et al. **Cleve Clin J Med** 1997 Apr; 64(4):216-9

HEPATITIS, ANIMAL

BLOOD

Subclinical versus clinical hepatitis in the dobermann: evaluation of changes in blood parameters. Speeti M, et al. **J Small Anim Pract** 1996 Oct;37(10):465-70

CHEMICALLY INDUCED

Midzonal necrosis of the liver after concanavalin A-injection. Satoh M, et al. **Tohoku J Exp Med** 1996 Oct;180(2):139-52

COMPLICATIONS

Relationship between inflammatory hepatic disease and inflammatory bowel disease, pancreatitis, and nephritis in cats. Weiss DJ, et al. **J Am Vet Med Assoc** 1996 Sep 15; 209(6):1114-6

Use of ursodeoxycholic acids in a dog with chronic hepatitis: effects on serum hepatic tests and endogenous bile acid composition. Meyer DJ, et al. **J Vet Intern Med** 1997 May-Jun;11(3):195-7

DIAGNOSIS

Evaluation of the hepatocyte-specific contrast agent gadobenate dimeglumine for MR imaging of acute hepatitis in a rat model. Marzola P, et al. **J Magn Reson Imaging** 1997 Jan-Feb;7(1):147-52

Diagnosis and prognosis of chronic hepatitis and cirrhosis in dogs. Sevelius E. **J Small Anim Pract** 1995 Dec; 36(12):521-8

Hepatitis and hepatocellular carcinoma in two prairie dogs (Cynomys ludovicianus). Une Y, et al. **J Vet Med Sci** 1996 Sep;58(9):933-5

Hepatitis in a European brown bear with canine infectious hepatitis-like lesions. Kritsepi M, et al. **Vet Rec** 1996 Dec 14;139(24):600-1

ENZYMOLOGY

Enzyme-linked immunosorbent assay of carbamoylphosphate synthetase I: plasma enzyme in rat experimental hepatitis and its clearance. Ozaki M, et al. **Enzyme Protein** 1994-95; 48(4):213-21

ETIOLOGY

Differential pathogenesis of lethal mousepox in congenic DBA/2 mice implicates natural killer cell receptor NKR-P1 in necrotizing hepatitis and the fifth component of complement in recruitment of circulating leukocytes to spleen. Brownstein DG, et al. **Am J Pathol** 1997 Apr; 150(4):1407-20

Adenovirus-mediated expression of cytokine-induced neutrophil chemoattractant in rat liver induces a neutrophilic hepatitis. Maher JJ, et al. **Hepatology** 1997 Mar;25(3):624-30

The possible role of manganese poisoning in enzootic geophagia and hepatitis of calves and lambs [letter] Neser JA, et al. **J S Afr Vet Assoc** 1997 Mar;68(1):4-6

GENETICS

Hepatocyte growth factor and c-met expression in Long-Evans Cinnamon rats with spontaneous hepatitis and hepatoma. Nakayama N, et al. **Hepatology** 1996 Sep; 24(3):596-602

Susceptibility of experimental autoimmune hepatitis in transgenic mice overexpressing the c-H-ras gene. Tsunematsu S, et al. **J Gastroenterol Hepatol** 1997 Apr; 12(4):319-24

Suppression of concanavalin A-induced hepatitis in IFN-gamma(-/-) mice, but not in TNF-alpha(-/-) mice: role for IFN-gamma in activating apoptosis of hepatocytes. Tagawa Y, et al. **J Immunol** 1997 Aug 1;159(3):1418-28

IMMUNOLOGY

Experimental hepatitis and role of cytokines. Tiegs G. **Acta Gastroenterol Belg** 1997 Apr-Jun;60(2):176-9 (31 ref.)

TNF-alpha gene expression in the liver of the IFN-gamma transgenic mouse with chronic active hepatitis. Okamoto T, et al. **Biochem Biophys Res Commun** 1996 Sep 24; 226(3):762-8

The appearance of unusual phenotypic cells (CD4+ Mac-1+ class II+) in the liver of (NZW x BXSB)F1 mice is possibly an animal model for autoimmune hepatitis. Amoh Y, et al. **Immunobiology** 1997 Jun;197(1):31-43

Tumor necrosis factor receptor p55 is essential for intrahepatic granuloma formation and hepatocellular apoptosis in a murine model of bacterium-induced fulminant hepatitis. Tsuji H, et al. **Infect Immun** 1997 May; 65(5):1892-8

Susceptibility of experimental autoimmune hepatitis in transgenic mice overexpressing the c-H-ras gene. Tsunematsu S, et al. **J Gastroenterol Hepatol** 1997 Apr; 12(4):319-24

Suppression of concanavalin A-induced hepatitis in IFN-gamma(-/-) mice, but not in TNF-alpha(-/-) mice: role for IFN-gamma in activating apoptosis of hepatocytes. Tagawa Y, et al. **J Immunol** 1997 Aug 1;159(3):1418-28

Experimental autoimmune hepatitis in mice following immunization with syngeneic liver proteins. Mihas AA, et al. **J Med** 1995;26(5-6):309-22

Cell-mediated immune responses to liver membrane protein in canine chronic hepatitis. Poitout F, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3-4):169-78

METABOLISM

Inhibition of nitric oxide synthesis improves detoxication in inflammatory liver dysfunction in vivo. Veihelmann A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G530-6

Death in the Fas lane [news] **Gastroenterology** 1997 Jun; 112(6):1784

Hepatocyte growth factor and c-met expression in Long-Evans Cinnamon rats with spontaneous hepatitis and hepatoma. Nakayama N, et al. **Hepatology** 1996 Sep; 24(3):596-602

Induction of hepatocyte growth factor activator messenger RNA in the liver following tissue injury and acute inflammation. Okajima A, et al. **Hepatology** 1997 Jan; 25(1):97-102

Hepatitis and increased copper levels in a dalmatian. Cooper VL, et al. **J Vet Diagn Invest** 1997 Apr;9(2):201-3

Hepatic inflammation following 70% hepatectomy may be related to up-regulation of epithelial neutrophil activating protein-78 [see comments] Colletti LM, et al. **Shock** 1996 Dec;6(6):397-402. Comment in: Shock 1996 Dec;6(6):403-4.

MICROBIOLOGY

Helicobacter hepaticus, a recently recognized bacterial pathogen, associated with chronic hepatitis and hepatocellular neoplasia in laboratory mice. Rice JM. **Emerg Infect Dis** 1995 Oct-Dec;1(4):129-31

Tumor necrosis factor receptor p55 is essential for intrahepatic granuloma formation and hepatocellular apoptosis in a murine model of bacterium-induced fulminant hepatitis. Tsuji H, et al. **Infect Immun** 1997 May; 65(5):1892-8

Helicobacter canis isolated from a dog liver with multifocal necrotizing hepatitis. Fox JG, et al. **J Clin Microbiol** 1996 Oct;34(10):2479-82

Acute clostridial hepatitis in an ostrich. Poonacha KB, et al. **J Vet Diagn Invest** 1997 Apr;9(2):208-10

PATHOLOGY

Necrotizing hepatitis in pet birds associated with Pseudomonas fluorescens. Jackson MK, et al. **Avian Dis** 1996 Apr-Jun;40(2):473-6

Chronic hepatitis: a retrospective study in 34 dogs. Fuentealba C, et al. **Can Vet J** 1997 Jun;38(6):365-73

Contribution of Fas ligand to T cell-mediated hepatic injury in mice. Seino K, et al. **Gastroenterology** 1997 Oct; 113(4):1315-22

Contrast enhancement in experimental radiation-induced liver injury: comparison of hepatocellular and reticuloendothelial particulate contrast agents. Stiskal M, et al. **J Magn Reson Imaging** 1996 Mar-Apr;6(2):286-90

Histopathologic evaluation of feline inflammatory liver disease. Gagne JM, et al. **Vet Pathol** 1996 Sep;33(5):521-6

The relationship between hepatic copper content and morphologic changes in the liver of West Highland White Terriers. Thornburg LP, et al. **Vet Pathol** 1996 Nov; 33(6):656-61

Hepatitis in a European brown bear with canine infectious hepatitis-like lesions. Kritsepi M, et al. **Vet Rec** 1996 Dec 14;139(24):600-1

[The effect of tumor necrosis factor alpha on hepatic necrosis in viral hepatitis] Yu Y, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):28-31 (Eng. Abstr.) **(Chi)**

PHYSIOPATHOLOGY

Inhibition of nitric oxide synthesis improves detoxication in inflammatory liver dysfunction in vivo. Veihelmann A, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):G530-6

Obesity increases sensitivity to endotoxin liver injury: implications for the pathogenesis of steatohepatitis. Yang SQ, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18; 94(6):2557-62

PREVENTION & CONTROL

Analysis of Arg-Gly-Asp mimetics and soluble receptor of tumour necrosis factor as therapeutic modalities for concanavalin A induced hepatitis in mice. Bruck R, et al. **Gut** 1997 Jan;40(1):133-8

Chemokines and liver inflammation: the battle between pro- and anti-inflammatory mediators. Jaeschke H. **Hepatology** 1997 Jan;25(1):252-3

[Efficacy of interferon alpha in primary prevention of preneoplastic lesions in a transgenic murine model of hepatocellular carcinoma related to the interaction between woodchuck hepatitis viruses and c-myc oncogene] Merle P, et al. **Gastroenterol Clin Biol** 1997;21(6-7):459-65 (Eng. Abstr.) **(Fre)**

THERAPY

Interleukin 10 suppresses experimental chronic, granulomatous inflammation induced by bacterial cell wall polymers. Herfarth HH, et al. **Gut** 1996 Dec;39(96):836-45

Hepatocyte growth factor, tissue repair and cancer [news] Abdulla S. **Mol Med Today** 1997 Jun;3(6):233

VIROLOGY

Alteration of macrophage functions by cocaine. Lefkowitz SS, et al. **Adv Exp Med Biol** 1996;402:135-44

HEPATITIS ANTIBODIES

ANALYSIS

The seroprevalence of the "total" anti-HAV antibody in the Czech UNPRO Forces (1991-1995). Beran J, et al. **Acta Medica (Hradec Kralove)** 1996;39(1):35-9

Cross sectional retrospective study of prevalence of atopy among Italian military students with antibodies against hepatitis A virus [see comments] Matricardi PM, et al. **BMJ** 1997 Apr 5;314(7086):999-1003. Comment in: BMJ 1997 Apr 5;314(7086):987-8.

Herpes simplex hepatitis. Mantry P, et al. **Indian J Gastroenterol** 1997 Jan;16(1):33-4

Prevalence of hepatitis A antibodies in food handlers in Italy. Angelillo IF, et al. **Infection** 1996 Mar-Apr;24(2):147-50

Significance of anti-E2 in the diagnosis of HCV infection in patients on maintenance hemodialysis: anti-E2 is frequently detected among anti-HCV antibody-negative patients. Lee DS, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2409-13

Consecutive evaluation of immunoglobulin M and G antibodies against hepatitis E virus. Ke WM, et al. **J Gastroenterol** 1996 Dec;31(6):818-22

Analysis of serum hepatitis A virus antibody response in different courses of hepatitis A virus infection. Sata M, et al. **J Gastroenterol** 1996 Dec;31(6):812-7

Emergence and selection of HBV variants in an anti-HBe positive patient persistently infected with quasi-species. Alexopoulou A, et al. **J Hepatol** 1997 Apr;26(4):748-53

Prevalence of hepatitis G virus antibodies in Queensland blood donors [letter] Moaven LD, et al. **Med J Aust** 1997 May 5;166(9):507, 509

Immunity to hepatitis A in paediatric and nursery nurses. Poole CJ, et al. **Occup Med (Oxf)** 1996 Oct;46(5):361-3

Short-term IgM and IgG antibody responses to hepatitis E virus infection. Koshy A, et al. **Scand J Infect Dis** 1996; 28(5):439-41

Hepatitis G virus RNA and hepatitis G virus antibodies in renal transplant recipients: prevalence and risk factors. Stark K, et al. **Transplantation** 1997 Aug 27;64(4):608-12

Emerging viral pathogens in long-term expatriates (I): Hepatitis E virus. Jänisch T, et al. **Trop Med Int Health** 1997 Sep;2(9):885-91

[Initial results of monitoring hepatitis E virus antibodies in selected population groups in the West Bohemia Region. Preliminary report] Pazdiora P, et al. **Epidemiol Mikrobiol Imunol** 1996 Sep;45(3):117-8 (Eng. Abstr.) **(Cze)**

[Seroprevalence of viral hepatitis A in France in homosexuals and intravenous drug users] Lucht F, et al. **Presse Med** 1996 Sep 7;25(25):1141-3 (Eng. Abstr.) **(Fre)**

[Prevalence of hepatitis A virus antibodies in food handlers] Romano F, et al. **Ann Ig** 1996 Jul-Aug;8(4):419-23 (Eng. Abstr.) **(Ita)**

[A serial questionnaire on the prevalence of hepatitis A antibodies in adolescents in urban area: comparative study (1990-1995) (letter)] Gil Miguel A, et al. **Aten Primaria** 1996 Dec;18(10):584, 586 **(Spa)**

[Seroprevalence of hepatitis A antibodies in patients with chronic hepatitis (letter)] Bañares R, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):183 **(Spa)**

BIOSYNTHESIS

Humoral immune response to the hypervariable region of hepatitis C virus differs between genotypes 1b and 2a. Yoshioka K, et al. **J Infect Dis** 1997 Mar;175(3):505-10

Prevalence of Helicobacter pylori antibodies in normal children. Ader-Shotet F, et al. **Pediatr Infect Dis J** 1996

Feb;15(2):172–4
Immunogenicity and protectivity of a new liposomal hepatitis A vaccine. Ambrosch F, et al. **Vaccine** 1997 Aug; 15(11):1209–13
Immunogenicity of an inactivated hepatitis A vaccine administered according to two different schedules and the interference of other "travellers" vaccines with the immune response. Bienzle U, et al. **Vaccine** 1996 Apr;14(6):501–5
DNA inoculation with a plasmid vector carrying the hepatitis E virus structural protein gene induces immune response in mice. He J, et al. **Vaccine** 1997 Mar;15(4):357–62
Hepatitis A vaccine responses in HIV–positive persons with haemophilia. Tilzey AJ, et al. **Vaccine** 1996 Aug; 14(11):1039–41

BLOOD

Seroprevalence of hepatitis E virus in an adult urban population from Burundi. Aubry P, et al.
Am J Trop Med Hyg 1997 Sep;57(3):272–3
Epidemic and sporadic hepatitis E virus transmission in West Kalimantan (Borneo), Indonesia. Corwin A, et al.
Am J Trop Med Hyg 1997 Jul;57(1):62–5
Prevalence of hepatitis E virus IgG antibodies in patients from a referral unit of liver diseases in Salvador, Bahia, Brazil. Parana R, et al. **Am J Trop Med Hyg** 1997 Jul; 57(1):60–1
Analysis of the antibody response in humans with a new inactivated hepatitis A vaccine. Vidor E, et al.
Biologicals 1996 Sep;24(3):235–42
The prevalence and direct costs of pre–immunization testing for hepatitis A in general practice. Buckley D, et al.
Br J Gen Pract 1996 Sep;46(410):541–2
Detection of antibodies against hepatitis A in blood spots dried on filter paper. Is this a reliable method for epidemiological studies? Gil A, et al. **Epidemiol Infect** 1997 Apr;118(2):189–91
An outbreak of hepatitis A associated with a bakery, New York, 1994: the 1968 "West Branch, Michigan' outbreak repeated. Weltman AC, et al. **Epidemiol Infect** 1996 Oct; 117(2):333–41
Prevalence of hepatitis A antibodies in southeastern Spain: a population–based study. García–Fulgueiras A, et al.
Eur J Epidemiol 1997 Jun;13(4):481–3
Prevalence of hepatitis A, B, and C markers in school children of a rural area of Crete, Greece. Lionis C, et al.
Eur J Epidemiol 1997 Jun;13(4):417–20
Prevalence study of different hepatitis markers among pregnant Albanian refugees in Greece. Malamitsi–Puchner A, et al. **Eur J Epidemiol** 1996 Jun;12(3):297–301
Seroprevalence of hepatitis A IgG antibody—is it relevant in clinical practice [letter] Das K, et al.
Indian J Gastroenterol 1996 Jan;15(1):32–3
A new PCR–based seroneutralization assay in cell culture for diagnosis of hepatitis E. Meng J, et al.
J Clin Microbiol 1997 Jun;35(6):1373–7
Immune response to hepatitis A virus capsid proteins after infection [published erratum appears in J Clin Microbiol 1996 Jun;34(6):1601] Wang CH, et al. **J Clin Microbiol** 1996 Mar;34(3):707–13
GB virus C E2 glycoprotein: expression in CHO cells, purification and characterization. Surowy TK, et al.
J Gen Virol 1997 Aug;78 (Pt 8):1851–9
A high hepatitis E virus seroprevalence among renal transplantation and haemophilia patient populations [letter] Buffet C, et al. **J Hepatol** 1996 Jan;24(1):122–5
Immunogenicity of two versus three injections of inactivated hepatitis A vaccine in adults. Chen XQ, et al.
J Hepatol 1997 Feb;26(2):260–4
Clinical implications of GBV–C/HGV infection in patients with "HCV–related" chronic hepatitis. Francesconi R, et al. **J Hepatol** 1997 Jun;26(6):1165–72
Detection of antibodies to the nonstructural 3C proteinase of hepatitis A virus. Stewart DR, et al. **J Infect Dis** 1997 Sep;176(3):593–601
A community prevalence study of antibodies to hepatitis A and E in inner–city London. Bernal W, et al.
J Med Virol 1996 Jul;49(3):230–4
IgM and IgG antibodies to hepatitis E virus (HEV) detected by an enzyme immunoassay based on an HEV–specific artificial recombinant mosaic protein. Favorov MO, et al.
J Med Virol 1996 Sep;50(1):50–8
Hepatitis E virus seroprevalence in acute viral hepatitis in a developed country confirmed by a supplemental assay. Quiroga JA, et al. **J Med Virol** 1996 Sep;50(1):16–9
Prevalence of antibodies to hepatitis A, C, and E viruses in different ethnic groups in French Guiana. Talarmin A, et al. **J Med Virol** 1997 Aug;52(4):430–5
Hepatitis E in South Africa: evidence for sporadic spread and increased seroprevalence in rural areas. Tucker TJ, et al. **J Med Virol** 1996 Oct;50(2):117–9
Duration of protection from clinical hepatitis A disease after vaccination with VAQTA. Wiens BL, et al.
J Med Virol 1996 Jul;49(3):235–41
Prevalence of immunity to hepatitis A in recruits to the British Army and Royal Air Force. Cumberland NS, et al. **J R Army Med Corps** 1994 Jun;140(2):71–5
Antibody to hepatitis E virus in HIV–infected individuals and AIDS patients. Balayan MS, et al. **J Viral Hepat** 1997 Jul;4(4):279–83
Hepatitis E infection in the UK. Skidmore SJ, et al.
J Viral Hepat 1996 Mar;3(2):103–5
Seroprevalence of hepatitis E in hemodialysis patients in Turkey [letter] Cengiz K, et al. **Nephron** 1996;74(4):730
High prevalence of hepatitis E virus antibodies in Spanish hemodialysis patients [letter] Mateos ML, et al. **Nephron** 1997;76(2):231–2
Seroepidemiological study of an acute hepatitis E outbreak in Morocco. Benjelloun S, et al. **Res Virol** 1997 Jul–Aug; 148(4):279–87
Risk factors and prevalence of antibodies against hepatitis A virus (HAV) in children from day–care centers, in Goiania, Brazil. Queiróz DA, et al.
Rev Inst Med Trop Sao Paulo 1995 Sep–Oct;37(5):427–33
Detection of antibodies to hepatitis E virus in patients with autoimmune chronic active hepatitis and primary biliary cirrhosis. Le Cann P, et al. **Scand J Gastroenterol** 1997 Apr;32(4):387–9
Age–specific prevalence of hepatitis A antibody in Thai children. Kalayanarooj S, et al.
Southeast Asian J Trop Med Public Health 1995 Dec; 26(4):709–11
Acute viral hepatitis A patient with early negative HAV–IGM antibody. Wilairatana P.
Southeast Asian J Trop Med Public Health 1996 Mar; 27(1):202–3
Immunogenicity and reactogenicity of a combined hepatitis A and B vaccine in young adults. Bruguera M, et al.
Vaccine 1996 Oct;14(15):1407–11
Long–term persistence of anti–HAV antibodies following active immunization with hepatitis A vaccine. Maiwald H, et al. **Vaccine** 1997 Mar;15(4):346–8
Hepatitis A vaccine: persistence of antibodies 5 years after the first vaccination. Totos G, et al. **Vaccine** 1997 Aug; 15(11):1252–3
Inactivated hepatitis A vaccine: long–term antibody persistence. Wiedermann G, et al. **Vaccine** 1997 Apr–May; 15(6–7):612–5
[The seroprevalence for hepatitis E viral antibodies in the northern region of Portugal (among the donor population)] Queirós L, et al. **Acta Med Port** 1997 Jun–Jul; 10(6–7):447–53 (Eng. Abstr.) **(Por)**
[The prevalence of antibodies to the hepatitis C virus (HCV) in patients with post–transfusional hepatitis and blood donors in Moldova] Iancu L, et al.
Bacteriol Virusol Parazitol Epidemiol 1993 Jan–Jun; 38(1–2):76–80 **(Rum)**
[Hepatitis E in a nonendemic region: antibodies to hepatitis E virus in various groups of residents] Fedorova OE, et al. **Vopr Virusol** 1996 May–Jun;41(3):104–7 (Eng. Abstr.) **(Rus)**
[Prevalence of serological markers for viral hepatitis B and C in patients and medical personnel in the hematologic ward of Novosibirsk city hospital No. 2] Netesova IG, et al. **Vopr Virusol** 1997 Jan–Feb;42(1):27–30 (Eng. Abstr.) **(Rus)**
[The immune status against hepatitis A virus in medical residents (letter)] Benito Ruesca R, et al.
Med Clin (Barc) 1997 Jul 5;109(6):236–7 **(Spa)**
[The prevalence of markers for the hepatitis A and B viruses in the population of Gijón between 6 and 25 years old] Suárez A, et al. **Med Clin (Barc)** 1996 Apr 6;106(13):491–4 (Eng. Abstr.) **(Spa)**
[Prevalence of serologic markers of hepatitis A, B, C, and D viruses in pregnant women] Ortiz–Ibarra FJ, et al.
Salud Publica Mex 1996 Sep–Oct;38(5):317–22 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

A novel cytopathic microtitre plate assay for hepatitis A virus and anti–hepatitis A neutralizing antibodies. Beales LP, et al. **J Virol Methods** 1996 May;59(1–2):147–54
Lack of correlation between different hepatitis C virus screening and confirmatory assays. Berger A, et al.
J Virol Methods 1996 May;59(1–2):141–6
Demonstration of specific detection of anti–HCV IgM core antibodies. Kapprell HP, et al. **J Virol Methods** 1996 May; 59(1–2):121–6
Placental transfer of hepatitis A antibodies in full term and preterm infants. Linder N, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):245–7
Interpretation of serological markers of hepatitis viruses. Irshad M. **Trop Gastroenterol** 1995 Oct–Dec;16(4):4–10

ISOLATION & PURIFICATION

[The frequency of antibodies against delta virus in patients with HBs positive hepatitis] Ivaniushina VA, et al.
Vopr Virusol 1996 Jul–Aug;41(4):166–9 (Eng. Abstr.) **(Rus)**

HEPATITIS ANTIGENS

ANALYSIS

[Immunohistochemical study of hepatitis B and D virus antigens (HBsAg, HBcAg, HDAg) in chronic liver diseases] Horváth G, et al. **Orv Hetil** 1996 May 26; 137(21):1133–8 (Eng. Abstr.) **(Hun)**

BLOOD

Prevalence study of different hepatitis markers among pregnant Albanian refugees in Greece. Malamitsi–Puchner A, et al. **Eur J Epidemiol** 1996 Jun;12(3):297–301
Clinical features of serologically non–B non–C chronic liver disease. Ohana M, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):215–20
The laboratory diagnosis of the hepatitis viruses. Waite J.
Int J STD AIDS 1996 Oct;7(6):400–7; quiz 408–9 (67 ref.)
[Prevalence of serologic markers of hepatitis B and D viruses in children of the Caiabi and Txucarramãe tribes from the Indian Reservation of Xingu, central Brazil] Azevedo RA, et al. **Rev Soc Bras Med Trop** 1996 Sep–Oct;29(5):431–9 (Eng. Abstr.) **(Por)**

CHEMISTRY

Disulfide bond formation of the in vitro–translated large antigen of hepatitis D virus. Hu HM, et al.
J Virol Methods 1996 Jun;60(1):39–46
Delta–interacting protein A and the origin of hepatitis delta antigen [letter; comment] Long M, et al. **Science** 1997 May 2;276(5313):824–5. Comment on: Science 1996 Oct 4;274(5284):90–4.

DRUG EFFECTS

Specific inhibition of delta antigen by in vitro system by antisense oligodeoxynucleotide: implications for translation mechanism and treatment. Chen TZ, et al.
J Virol Methods 1997 May;65(2):183–9

IMMUNOLOGY

IgM and IgG antibodies to hepatitis E virus (HEV) detected by an enzyme immunoassay based on an HEV–specific artificial recombinant mosaic protein. Favorov MO, et al.
J Med Virol 1996 Sep;50(1):50–8
Experimental infection of the laboratory rat with the hepatitis E virus. Maneerat Y, et al. **J Med Virol** 1996 Feb; 48(2):121–8
The expression of hepatitis B virus polymerase in hepatocytes during chronic HBV infection. McGarvey MJ, et al.
J Viral Hepat 1996 Mar;3(2):67–73
Lack of correlation between different hepatitis C virus screening and confirmatory assays. Berger A, et al.
J Virol Methods 1996 May;59(1–2):141–6
Interpretation of serological markers of hepatitis viruses. Irshad M. **Trop Gastroenterol** 1995 Oct–Dec;16(4):4–10

METABOLISM

Phosphorylation of the hepatitis delta virus antigens. Bichko V, et al. **J Virol** 1997 Jan;71(1):512–8
Redistribution of the delta antigens in cells replicating the genome of hepatitis delta virus. Bichko VV, et al.
J Virol 1996 Nov;70(11):8064–70
Specific inhibition of delta antigen by in vitro system by antisense oligodeoxynucleotide: implications for translation mechanism and treatment. Chen TZ, et al.
J Virol Methods 1997 May;65(2):183–9

HEPATITIS B

Chronic viral hepatitis in childhood. Bortolotti F.
Baillieres Clin Gastroenterol 1996 Jul;10(2):185–206 (97 ref.)
Hepatitis B and C viruses and primary liver cancer. Brechot C. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):335–73 (237 ref.)
Hepatitis B and admission to medical school [editorial; comment] [see comments] Gilson RJ. **BMJ** 1996 Oct 5; 313(7061):830–1. Comment on: BMJ 1996 Oct 5;313(7061):856–7. Comment in: BMJ 1997 Jan 18;314(7075):225.
Hepatitis B and admission to medical school: an audit of British medical school policy [see comments] Parker G, et al. **BMJ** 1996 Oct 5;313(7061):856–7. Comment in: BMJ 1996 Oct 5;313(7061):830–1. Comment in: BMJ 1997 Jan 18;314(7075):225.
Rat as an animal model carrying human hepatitis B virus in hepatocytes. Wang Y, et al. **Chin Med J (Engl)** 1996 Sep;109(9):674–9
Interactions between alcohol and hepatitis viruses in the liver. Brechot C, et al. **Clin Lab Med** 1996 Jun;16(2):273–87 (135 ref.)
Ethanol and hepatocellular injury. French SW.
Clin Lab Med 1996 Jun;16(2):289–306 (110 ref.)
Hepatitis B and C viruses and hepatocellular carcinoma. Kew MC. **Clin Lab Med** 1996 Jun;16(2):395–406 (73 ref.)
Hepatitis B vaccine [letter; comment] Karthikeyan G.
Indian Pediatr 1995 Sep;32(9):1043–5. Comment on: Indian Pediatr 1995 Jun;32(6):715–8.
Pregnancy in partially remitted hepatitis B–associated membranous glomerulonephritis. Bates WD, et al.
Int J Gynaecol Obstet 1996 Feb;52(2):163–5
Hepatitis B: the lurking danger [letter] Abraham P.
J Assoc Physicians India 1996 Sep;44(9):668–9
Comparative safety and immunogenicity of two recombinant hepatitis B vaccines given to infants at two, four and six months of age. Greenberg DP, et al.
Pediatr Infect Dis J 1996 Jul;15(7):590–6
Physicians' assessments of the utility of health states associated with human immunodeficiency virus (HIV) and hepatitis B virus (HBV) infection. Owens DK, et al.
Qual Life Res 1997 Jan;6(1):77–86
Variability in hepatitis B virus DNA: phylogenetic, epidemiological and clinical implications. Kidd–Ljunggren K. **Scand J Infect Dis** 1996;28(2):111–6 (57 ref.)
[Hepatitis B virus infection and pathogenesis of

glomerulonephritis] Zhang Y, et al.
Chung Hua Ping Li Hsueh Tsa Chih 1995 Dec;24(6):341–4 (Eng. Abstr.) **(Chi)**
[Basic and clinical aspects of hepatitis virus carriers] Shimoyama R, et al. **Hokkaido Igaku Zasshi** 1996 Jul; 71(4):427–48 (67 ref.) (Eng. Abstr.) **(Jpn)**
[A case of post-kidney transplantation liver failure with hepatitis B carrier state] Aizawa K, et al.
Nippon Naika Gakkai Zasshi 1997 Jun 10;86(6):1045–7 **(Jpn)**

BLOOD

Interferon-alpha 2b treatment in hepatitis B carriers. Effect on hepatitis B virus DNA levels in children infected with different genotypes. Sangfelt P, et al. **Acta Paediatr** 1997 Feb;86(2):135–7
The determination of neutrophil membrane fluidity in patients with hepatitis B: a fluorescence polarization study. Fan XG, et al. **APMIS** 1997 Apr;105(4):309–12
Plasma antioxidant vitamins, chronic hepatitis B virus infection and urinary aflatoxin B1–DNA adducts in healthy males. Yu MW, et al. **Carcinogenesis** 1997 Jun;18(6):1189–94
Blood lipids of patients with chronic hepatitis: differences related to viral etiology. Fabris C, et al.
Clin Chim Acta 1997 May 28;261(2):159–65
Diminished plasma levels of vitamin E in patients with severe viral hepatitis. von Herbay A, et al. **Free Radic Res** 1996 Dec;25(6):461–6
Low lipoprotein (a) levels during acute viral hepatitis. Geiss HC, et al. **Hepatology** 1996 Dec;24(6):1334–7
Gastrointestinal peptide hormones in acute viral hepatitis. Budillon G, et al. **Ital J Gastroenterol** 1996 Feb–Mar; 28(2):86–90
Serum cholesterol and chronic hepatitis C. Maggi G, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):436–40
Quantitative assay of PCR-amplified hepatitis B virus DNA using a peroxidase-labelled DNA probe and enhanced chemiluminescence. Erhardt A, et al. **J Clin Microbiol** 1996 Aug;34(8):1885–91
The effects of prednisolone and interferons on serum macrophage colony stimulating factor concentrations in chronic hepatitis B. Itoh Y, et al. **J Hepatol** 1997 Feb; 26(2):244–52
Decreased nitric oxide production in chronic viral hepatitis B and C. Amaro MJ, et al. **J Med Virol** 1997 Apr; 51(4):326–31
Impaired interferon induction of human MxA protein in chronic hepatitis B virus infection. Fernández M, et al. **J Med Virol** 1997 Apr;51(4):332–7
Mutations in the core promoter region of hepatitis B virus in patients with chronic hepatitis B. Kurosaki M, et al. **J Med Virol** 1996 Jun;49(2):115–23
Serial analysis of hepatitis B virus core nucleotide sequence of patients with acute exacerbation during chronic infection. Okumura A, et al. **J Med Virol** 1996 Jun; 49(2):103–109
Reduced glutathione concentration in erythrocytes of patients with acute and chronic viral hepatitis. Swiętek K, et al. **J Viral Hepat** 1997 Mar;4(2):139–41
Serum alanine aminotransferase level in relation to hepatitis B and C virus infections among blood donors. Tsai JF, et al. **Liver** 1997 Feb;17(1):24–9
Are alanine aminotransferase, hepatitis B virus DNA or IgM antibody to hepatitis B core antigen serum levels predictors of histological grading in chronic hepatitis B? Zavaglia C, et al. **Liver** 1997 Apr;17(2):83–7
Variations of zinc in acute and chronic hepatitis (preliminary data). Tănăsescu C, et al. **Rom J Intern Med** 1996 Jan–Jun; 34(1–2):79–84
Interdependence between Zn and Cu serum concentrations and serum immunoglobulins (IgA, IgM, IgG) in liver diseases. Tănăsescu C, et al. **Rom J Intern Med** 1996 Jul–Dec;34(3–4):217–24
Interferon gamma production in whole peripheral blood culture in acute hepatitis B. Osna N, et al.
Scand J Clin Lab Invest 1996 Apr;56(2):145–50
[Clinical and virological evaluation of the detection of pre-S1 and pre-S2 antigens in serum from patients with chronic hepatitis B] Zoulim F, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):970–5 (Eng. Abstr.) **(Fre)**
[Level of beta 2-microglobulin in serum of patients with acute viral hepatitis types A, B and C] Tomasiewicz K, et al. **Przegl Epidemiol** 1996;50(3):259–64 (Eng. Abstr.) **(Pol)**
[Etiology of chronic hepatitis as evaluated by liver biopsy and serum samples submitted to the Department of Immunopathology of the National Institute of Hygiene in 1993–1995] Walewska-Zielecka B, et al.
Przegl Epidemiol 1996;50(4):353–63 (Eng. Abstr.) **(Pol)**
[Atypical profile of markers of hepatitis B and vaccination] Velosa J. **Acta Med Port** 1996 Jul–Sep;9(7–9):247–51 (Eng. Abstr.) **(Por)**
[The biochemical aspects of the pathogenesis of viral hepatitides] Shuvalova EP, et al. **Ter Arkh** 1996;68(2):8–10 (Eng. Abstr.) **(Rus)**
[Hepatitis B: clinical course and serology] Lisker Melman M. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S34–7 **(Spa)**

CHEMICALLY INDUCED

Acute hepatic injury after discontinuation of chemotherapy in a patient with non-Hodgkin's lymphoma and chronic hepatitis B virus infection. Haanen JB, et al.
Neth J Med 1996 Dec;49(6):239–43

COMPLICATIONS

Liverbiopsy because of Hbs Ag positive hepatitis revealing a non-suspected hepatic schistosomiasis. Implication for future therapy with recombinant alpha interferon? Loffeld RJ, et al. **Acta Gastroenterol Latinoam** 1996;26(1):35–7
Compensated cirrhosis due to viral hepatitis: using MR imaging to predict clinical progression. Ito K, et al.
AJR Am J Roentgenol 1997 Sep;169(3):801–5
A prospective randomized trial of colchicine in prevention of liver cirrhosis in chronic hepatitis B patients. Lin DY, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):961–6
Prospective study of hepatocellular carcinoma and liver cirrhosis in asymptomatic chronic hepatitis B virus carriers. Yu MW, et al. **Am J Epidemiol** 1997 Jun 1;145(11):1039–47
Long course and prognostic factors of virus-induced cirrhosis of the liver. Gentilini P, et al.
Am J Gastroenterol 1997 Jan;92(1):66–72
Lamivudine-stavudine-induced liver failure in hepatitis B cirrhosis. Schiano TD, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1563–4
No relationship between smoking and hepatitis B virus-related hepatocellular carcinoma [letter; comment] Sivri B, et al. **Am J Gastroenterol** 1997 May;92(5):914. Comment on: Am J Gastroenterol 1996 Jun;91(6):1195–203.
Extrahepatic manifestations of chronic viral hepatitis [see comments] Willson RA. **Am J Gastroenterol** 1997 Jan; 92(1):3–17 (170 ref.). Comment in: Am J Gastroenterol 1997 Aug;92(8):1402.
Primary non-Hodgkin's lymphoma of the liver in a patient with hepatitis B, C, HIV infections [letter] Bauduer F, et al. **Am J Hematol** 1997 Mar;54(3):265
Allogeneic bone marrow transplantation for a patient complicated by chronic hepatitis due to precore mutant hepatitis B virus: failure of management with interferon-alpha therapy [letter] Miura Y, et al.
Am J Hematol 1997 Apr;54(4):344–5
Infections with hepatitis B virus in three villages endemic for schistosomiasis japonica in the Dongting Lake region of China. Li Y, et al. **Ann Trop Med Parasitol** 1997 Apr; 91(3):323–7
Prevalence of antidelta in Turkish children with chronic hepatitis B infection [letter] Yüce A, et al.
Arch Dis Child 1996 Oct;75(4):355
Hepatic events after bone marrow transplantation in patients with hepatitis B infection: a case controlled study. Lau GK, et al. **Bone Marrow Transplant** 1997 Apr;19(8):795–9
Effect of hepatitis C and B virus infection on risk of hepatocellular carcinoma: a prospective study. Tsai JF, et al. **Br J Cancer** 1997;76(7):968–74
Severe hepatitis related to chemotherapy in hepatitis B virus carriers with hematologic malignancies. Survey in Japan, 1987–1991. Nakamura Y, et al. **Cancer** 1996 Nov 15; 78(10):2210–5
p53 mutations, chronic hepatitis B virus infection, and aflatoxin exposure in hepatocellular carcinoma in Taiwan. Lunn RM, et al. **Cancer Res** 1997 Aug 15;57(16):3471–7
Absence of mutations in the p53 tumor suppressor gene in woodchuck hepatocellular carcinomas associated with hepadnavirus infection and intake of aflatoxin B1. Rivkina M, et al. **Carcinogenesis** 1996 Dec;17(12):2689–94
Immune complex mediated vasculitis in hepatitis B and C infections and the effect of antiviral therapy. Nityanand S, et al. **Clin Immunol Immunopathol** 1997 Mar;82(3):250–7
Liver transplantation for hepatitis B cirrhosis: clinical sequela of passive immunization. al-Hemsi B, et al.
Clin Transplant 1996 Dec;10(6 Pt 2):668–75
Hepatitis B virus markers, hepatitis D virus antigen and hepatitis C virus antibodies in Nigerian patients with chronic liver disease. Ojo OS, et al. **East Afr Med J** 1995 Nov;72(11):719–21
The occurrence of hepatitis B and C viruses in Pakistani patients with chronic liver disease and hepatocellular carcinoma. Tong CY, et al. **Epidemiol Infect** 1996 Oct; 117(2):327–32
Viral hepatitis and liver cancer: new opportunities for prevention. Bosch FX. **Eur J Cancer Prev** 1996 Oct; 5(5):408–9 (0 ref.)
Effect of verapamil on portal and splanchnic hemodynamics in patients with advanced posthepatitic cirrhosis using duplex Doppler ultrasound. Dinç H, et al.
Eur J Radiol 1996 Sep;23(2):97–101
The relative roles of hepatitis B and C viruses in the etiology of hepatocellular carcinoma in southern African blacks. Kew MC, et al. **Gastroenterology** 1997 Jan;112(1):184–7
Association of seropositivity for hepatitis viruses and aplastic anemia in Thailand. Issaragrisil S, et al. **Hepatology** 1997 May;25(5):1255–7
Chronic viral hepatitis induced by hepatitis C but not hepatitis B virus infection correlates with increased liver angiogenesis. Mazzanti R, et al. **Hepatology** 1997 Jan; 25(1):229–34
A pretransplant infection with precore mutants of hepatitis B virus does not influence the outcome of orthotopic liver transplantation in patients on high dose anti-hepatitis B virus surface antigen immunoprophylaxis. Naumann U, et al. **Hepatology** 1997 Aug;26(2):478–84
Presence of antibodies to the hepatitis B surface antigen is associated with an excess risk for hepatocellular carcinoma among non-Asians in Los Angeles County, California [published erratum appears in Hepatology 1997 May;25(5):1298] Yu MC, et al. **Hepatology** 1997 Jan; 25(1):226–8
The prevalence of hepatitis D in hepatitis B patients—a hospital based study. Pal D, et al.
Indian J Public Health 1996 Jan–Mar;40(1):22–3
Hepatitis B and C virus, Clonorchis sinensis for the risk of liver cancer: a case-control study in Pusan, Korea. Shin HR, et al. **Int J Epidemiol** 1996 Oct;25(5):933–40
Hepatitis B virus carrier status linked to autoimmune hepatitis. Murakami C, et al. **Intern Med** 1996 Jun; 35(6):468–71
Ursodeoxycholic acid in the management of prolonged cholestasis of acute hepatitis B. Kadayifci A, et al.
J Clin Gastroenterol 1997 Mar;24(2):125–6
The interaction of human immunodeficiency virus infection and hepatitis B virus infection in infected homosexual men. Mai AL, et al. **J Clin Gastroenterol** 1996 Jun;22(4):299–304
Bullous pemphigoid in an HB virus carrier: interaction between corticosteroids and HB virus. Inadomi T, et al.
J Dermatol 1997 Mar;24(3):179–83
Autopsy case of colocalized tumors of hepatocellular carcinoma and malignant lymphoma. Shikuwa S, et al.
J Gastroenterol 1996 Feb;31(1):129–32
Evaluation of hepatitis B and C viral markers: clinical significance in Asian and Caucasian patients with hepatocellular carcinoma in the United States of America. Hwang SJ, et al. **J Gastroenterol Hepatol** 1996 Oct; 11(10):949–54
Plasma interleukin-8 levels in patients with post-hepatitic cirrhosis: relationship to severity of liver disease, portal hypertension and hyperdynamic circulation. Li CP, et al.
J Gastroenterol Hepatol 1996 Jul;11(7):635–40
Primary liver cancer is of multifactorial origin: importance of hepatitis B virus infection and dietary aflatoxin. Saracco G. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):604–8 (38 ref.)
Relationship between sustained elevation of serum alanine aminotransferase and progression from cirrhosis to hepatocellular carcinoma: comparison in patients with hepatitis B virus- and hepatitis C virus-associated cirrhosis [see comments] Sato A, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):944–8. Comment in: J Gastroenterol Hepatol 1996 Oct;11(10):942–3.
Different clinicopathological features of hepatitis B- and C-related hepatocellular carcinoma [editorial; comment] Shiratori Y. **J Gastroenterol Hepatol** 1996 Oct;11(10):942–3 . Comment on: J Gastroenterol Hepatol 1996 Oct;11(10):944–8.
Chronic liver disease in the Alexandria governorate, Egypt: contribution of schistosomiasis and hepatitis virus infections. Angelico M, et al. **J Hepatol** 1997 Feb; 26(2):236–43
Alteration of DNA ploidy and cell nuclearity in human hepatocellular carcinoma associated with HBV infection. Gramantieri L, et al. **J Hepatol** 1996 Dec;25(6):848–53
Treatment of hepatitis B-related polyarteritis nodosa with famciclovir and interferon alfa-2b. Kruger M, et al.
J Hepatol 1997 Apr;26(4):935–9
Hepatitis B and C in HIV-infected patients. Prevalence and prognostic value. Ockenga J, et al. **J Hepatol** 1997 Jul; 27(1):18–24
Efficacy of low-dose alpha interferon therapy in HBV-related chronic liver disease in Asian Indians: a randomized controlled trial. Sarin SK, et al. **J Hepatol** 1996 Apr;24(4):391–6
Effect of aflatoxin metabolism and DNA adduct formation on hepatocellular carcinoma among chronic hepatitis B carriers in Taiwan. Yu MW, et al. **J Hepatol** 1997 Aug; 27(2):320–30
Heterogeneity of hepatitis B virus (HBV) core gene in a patient with HBV-associated cirrhosis and serum negativity for anti-HBc. Zoulim F, et al. **J Hepatol** 1996 Feb;24(2):155–60
Acute non-calculus cholecystitis in virus B hepatitis. Singh DS, et al. **J Indian Med Assoc** 1996 Feb;94(2):66, 75
Haemostatic abnormalities in patients with liver disease associated with viral hepatitis. Pramoolsinsap C, et al.
J Med Assoc Thai 1996 Nov;79(11):681–8
Hepatitis C genotypes in patients with dual hepatitis B and C virus infection. Pontisso P, et al. **J Med Virol** 1996 Feb; 48(2):157–60
Infection with GB virus C in patients with chronic liver disease. Sugai Y, et al. **J Med Virol** 1997 Mar;51(3):175–81
Hepatitis C virus is frequently coinfected with serum marker-negative hepatitis B virus: probable replication promotion of the former by the latter as demonstrated by in vitro cotransfection. Uchida T, et al. **J Med Virol** 1997 Aug;52(4):399–405
Recurrent demyelinating transverse myelitis in a high titer HBs-antigen carrier. Matsui M, et al. **J Neurol Sci** 1996 Aug;139(2):235–7
Long-term effects of interferon-alpha in five HIV-positive patients with chronic hepatitis B. di Martino V, et al.
J Viral Hepat 1996 Sep;3(5):253–60
Comparison of clinical features and survival in patients with hepatitis B and C virus-related hepatocellular carcinoma. Tanizaki H, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):67–70
Detection of hepatitis B virus DNA and RNA in kidneys of HBV related glomerulonephritis. Lai KN, et al.
Kidney Int 1996 Dec;50(6):1965–77

Malaria vaccine [letter; comment] Ruff T. **Lancet** 1996 Nov 16;348(9038):1378–9. Comment on: Lancet 1996 Sep 14;348(9029):701–7.

The frequencies of hepatitis B virus markers and hepatitis C virus antibody in patients with glomerulonephritis. Paydas S, et al. **Nephron** 1996;74(3):617–9

Nephrotic syndrome accompanying hepatitis-B-related liver cirrhosis and delta hepatitis [letter] Seyrek N, et al. **Nephron** 1996;74(1):227

Frequent microsatellite instability in post hepatitis B viral cirrhosis. Salvucci M, et al. **Oncogene** 1996 Dec 19; 13(12):2681–5

Regenerative pattern of liver cells in primary biliary cirrhosis, alcoholic cirrhosis, posthepatitic cirrhosis (HBV-related) and hepatocellular carcinoma: comparative analysis by computerized morphometry. Rahman SM, et al. **Pathol Int** 1996 Apr;46(4):267–73

The seroprevalence of hepatitis B, hepatitis C and human immunodeficiency virus infections in paediatric oncology patients in Turkey. Berberoğlu S. **Postgrad Med J** 1996 Oct;72(852):609–11

A patient with hepatitis B, antimicrosomal antibodies, and autoimmune hypothyroidism. Catapani WR, et al. **Postgrad Med J** 1996 Dec;72(854):752–3

A patient with Graves' disease, thrombocytopenia and chronic hepatitis B. Szeto CC, et al. **Postgrad Med J** 1997 Jan;73(855):39–40

Hepatitis B and C viruses in hepatitis B surface antigen negative hepatocellular carcinoma patients. Bréchot C, et al. **Princess Takamatsu Symp** 1995;25:199–209 (57 ref.)

Viral co-factors in liver cancer: lessons from hepatitis B virus. Butel JS, et al. **Princess Takamatsu Symp** 1995; 25:185–98 (70 ref.)

Hepatocarcinogenesis: hepatitis viruses and altered tumor suppressor gene function. Tabor E. **Princess Takamatsu Symp** 1995;25:151–61 (59 ref.)

Target cell populations in virus-associated hepatocarcinogenesis. Thorgeirsson SS. **Princess Takamatsu Symp** 1995;25:163–70

Preventing hepatitis B in people in close contact with hepatocellular carcinoma patients. Oberle MW, et al. **Public Health Rep** 1997 Jan–Feb;112(1):63–5

HBV and HCV chronic hepatitis and cirrhosis. Piccinino F, et al. **Res Virol** 1997 Mar–Apr;148(2):135–8 (29 ref.)

Immunological disorders of increased severity in children with AIDS associated with hepatitis B and C infections. Antipa C, et al. **Rom J Virol** 1995 Jan–Jun;46(1–2):3–8

Blood amounts and suppressive in vitro activity of CD8+ 11b(+)-lymphocytes from HIV-infected children, related to hepatitis B or C virus association. Voiculescu C, et al. **Rom J Virol** 1995 Jul–Dec;46(3–4):171–8

Minor role of hepatitis B and C virus infection in the etiology of hepatocellular carcinoma in a low-endemic area. Kaczynski J, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):809–13

Hepatitis and cancer: genetic aspects. Olsson R. **Scand J Gastroenterol Suppl** 1996;220:115–20 (53 ref.)

Coinfection and superinfection of hepatitis B virus in patients infected with human immunodeficiency virus: no evidence of faster progression to AIDS. Sinicco A, et al. **Scand J Infect Dis** 1997;29(2):111–5

Hepatitis B markers in men seeking human immunodeficiency virus antibody testing in Mexico City. Juárez-Figueroa LA, et al. **Sex Transm Dis** 1997 Apr;24(4):211–7

Hepatitis virus and kidney. Praditpornsilpa K, et al. **Singapore Med J** 1996 Dec;37(6):639–44 (53 ref.)

Results of kidney transplantation in HBsAG and anti-HCV seropositive renal allograft recipients. Durlik M, et al. **Transplant Proc** 1996 Dec;28(6):3459–60

Limited benefits of INF-alpha therapy in renal graft candidates with chronic viral hepatitis B or C. Rodrigues A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):777–80

Alteration of the dismal natural history of fibrosing cholestatic hepatitis secondary to hepatitis B virus with the use of lamivudine. Al Faraidy K, et al. **Transplantation** 1997 Sep 27;64(6):926–8

Chronic viral hepatitis enhances the risk of infection but not acute rejection in renal transplant recipients. Rao KV, et al. **Transplantation** 1996 Dec 27;62(12):1765–9

Is the DNA repair system involved in hepatitis-B-virus-mediated hepatocellular carcinogenesis? Butel JS, et al. **Trends Microbiol** 1996 Mar;4(3):119–24 (55 ref.)

Prevalence of hepatitis B surface antigen and HCV antibodies in hepatocellular carcinoma cases in Karachi, Pakistan. Abdul Mujeeb S, et al. **Trop Doct** 1997 Jan;27(1):45–6

Hepatitis-B-associated glomerulonephritis in children. Oner A, et al. **Turk J Pediatr** 1997 Apr–Jun;39(2):239–46

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of hepatitis B virus DNA. Lazizi Y, et al. **Vaccine** 1997 Jul;15(10):1095–100

[Severe hepatitis attributed to paroxetine (Seroxat)] de Man RA. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):540–2 (Eng. Abstr.) **(Dut)**

[Fibrosing cholestatic hepatitis by B virus reactivation in AIDS] Poulet B, et al. **Ann Pathol** 1996;16(3):188–91 (Eng. Abstr.) **(Fre)**

[Regressive pseudobulbar syndrome associated with acute viral hepatitis B (letter)] Bourgaux JF, et al. **Gastroenterol Clin Biol** 1997;21(2):158–9 **(Fre)**

[Porphyria cutanea tarda and hepatitis B and C virus infection] Roux M, et al. **Presse Med** 1996 Nov 2; 25(33):1589–91 (9 ref.) (Eng. Abstr.) **(Fre)**

[Periarteritis nodosa disclosed by epilepsy in a drug addict with hepatitis B and C virus carrier state] Débat Zoguéreh D, et al. **Rev Med Interne** 1997;18(4):311–5 (Eng. Abstr.) **(Fre)**

[Clinical and immunological findings of hepatitis B virus associated spastic paraparesis—a comparison with HAM] Ayabe M, et al. **Rinsho Shinkeigaku** 1997 Apr;37(4):283–6 (Eng. Abstr.) **(Jpn)**

[Laser therapy of acute hepatic encephalopathy in patients with hepatitis B] Botsvadze ES, et al. **Klin Med (Mosk)** 1996;74(4):69 **(Rus)**

[The frequency of antibodies against delta virus in patients with HBs positive hepatitis] Ivaniushina VA, et al. **Vopr Virusol** 1996 Jul–Aug;41(4):166–9 (Eng. Abstr.) **(Rus)**

[Why hepatitis and AIDS? (editorial)] Jmelnitzky AC. **Acta Gastroenterol Latinoam** 1996;26(3):201–4 **(Spa)**

[Bacteremia caused by Corynebacterium urealyticum in 2 patients co-infected with HIV and HBV (letter)] Aracil B, et al. **Enferm Infecc Microbiol Clin** 1997 Mar;15(3):172–3 **(Spa)**

[Disseminated sporotrichosis in a patient with chronic hepatopathy and hepatocarcinoma: report of a case (letter)] Vasen W, et al. **Enferm Infecc Microbiol Clin** 1996 Oct; 14(8):514–5 **(Spa)**

[Hepatitis virus and alcoholic liver disease] Parés A, et al. **Gastroenterol Hepatol** 1996 Aug–Sep;19(7):383–9 (49 ref.) **(Spa)**

[Hepatitis B and liver cancer] Kershenobich D. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S38–9 **(Spa)**

[Agranulocytosis secondary to acute hepatitis B with a good response to G-CSF (letter)] Ulla Anes M, et al. **Sangre (Barc)** 1997 Feb;42(1):91–2 **(Spa)**

DIAGNOSIS

Abstract temporal diagnosis in medical domains. Gamper J, et al. **Artif Intell Med** 1997 Jul;10(3):209–34

Detection of hepatitis B surface antigen in whole blood by coupled particle light scattering (Copalis). Benecky MJ, et al. **Clin Chem** 1997 Sep;43(9):1764–70

Hepatitis B: diagnosis, prevention, and treatment. Gitlin N. **Clin Chem** 1997 Aug;43(8 Pt 2):1500–6 (55 ref.)

Childhood infection with hepatitis A and B viruses in England and Wales. Hesketh LM, et al. **Commun Dis Rep CDR Rev** 1997 Apr 4;7(4):R60–3

Prenatal screening for hepatitis B virus. Khan NR, et al. **Int J Gynaecol Obstet** 1996 Oct;55(1):79–80

Detection of hepatocellular cancer during screening of 1125 patients with chronic hepatitis virus infection. Izzo F, et al. **J Chemother** 1997 Apr;9(2):151–2

Differential diagnosis of acute HBsAg positive hepatitis using IgM anti-HBc by a rapid, fully automated microparticle enzyme immunoassay. Tassopoulos NC, et al. **J Hepatol** 1997 Jan;26(1):14–9

Relative functional affinity of specific anti-core IgG in different categories of hepatitis B virus infection. Thomas HI. **J Med Virol** 1997 Mar;51(3):189–97

Utility of cerebral proton magnetic resonance spectroscopy in differential diagnosis of HIV-related dementia. Swindells S, et al. **J Neurovirol** 1995 Sep;1(3–4):268–74

Ligase chain reaction (LCR) assay for semi-quantitative detection of HBV DNA in mononuclear leukocytes of patients with chronic hepatitis B. Trippler M, et al. **J Viral Hepat** 1996 Sep;3(5):267–72

New quantitative assay of hepatitis B and C viruses by competitive PCR using alternative internal sequences. Payan C, et al. **J Virol Methods** 1997 May;65(2):299–305

Changes of hepatitis B markers among young adults in a hepatitis B virus endemic area: a follow up study on medical students. Liu JH, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 May; 13(5):286–92

Primers determine the sensitivity of PCR-mediated hepatitis B virus DNA detection and pretreatment of PCR mixture with 8-methoxypsoralen eliminates false-positive results. Keum WK, et al. **Mol Cells** 1997 Apr 30;7(2):244–50

Antepartum screening in the office-based practice: findings from the collaborative Ambulatory Research Network. Wilkins-Haug L, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):483–9

Preventing hepatitis B in people in close contact with hepatocellular carcinoma patients. Oberle MW, et al. **Public Health Rep** 1997 Jan–Feb;112(1):63–5

False-positive hepatitis B surface antigen screening test results in patients receiving granulocyte-colony-stimulating factor. Mair DC, et al. **Transfusion** 1996 Nov–Dec;36(11–12):948–51 (11 ref.)

Rational use of polymerase chain reaction—based detection of viral genomes in patients with serologic markers of hepatitis B or C virus infection. Pfeffel F, et al. **Wien Klin Wochenschr** 1997 Jan 17;109(1):20–4

[The proposed position statement on the preliminary screening of hepatitis B and hepatitis C of tentative intra-couple medically assisted reproduction. The BLEFCO Federation] **Contracept Fertil Sex** 1997 Apr; 25(4):313–24 (Eng. Abstr.) **(Fre)**

[Detection of hepatitis B: better efficacy at the 8th month of gestation than at the 6th month] Pic P, et al. **Presse Med** 1996 Sep 7;25(25):1169 **(Fre)**

[Rare initial manifestation and differential diagnosis of primary sclerosing cholangitis] Rehermann B, et al. **Med Klin** 1997 Jul 15;92(7):452–6 (Eng. Abstr.) **(Ger)**

[Extrahepatic manifestations of HBV and HCV infection] Hartmann H. **Schweiz Rundsch Med Prax** 1997 Jul 16; 86(29–30):1163–6 (14 ref.) (Eng. Abstr.) **(Ger)**

[Diagnosis of liver disease on laparoscopy: special reference to type B and C hepatitis] Sugaya H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):783–8 (58 ref.) **(Jpn)**

[Method of polymerase chain reaction in laboratory diagnosis of hepatitis B and C] Mikhailov MI, et al. **Klin Lab Diagn** 1997 Jul;(7):9–11 **(Rus)**

[The unique course of a chronic generalized infection with the hepatitis B virus (a clinico-morphological observation)] Aprosina ZG, et al. **Ter Arkh** 1996;68(11):16–9 (23 ref.) (Eng. Abstr.) **(Rus)**

[The clinical characteristics of viral hepatitis B in patients with chronic kidney failure] Aripkhodzhaeva FA, et al. **Ter Arkh** 1996;68(11):21–2 **(Rus)**

[Viral hepatitis B and C in patients with acute leukemias] Konstantinova TS, et al. **Ter Arkh** 1996;68(7):17–21 (Eng. Abstr.) **(Rus)**

[Viral hepatitis A and B in wounded patients] Liashenko IuI, et al. **Voen Med Zh** 1996 Nov;317(11):49–52, 79 (Eng. Abstr.) **(Rus)**

[Hepatitis B virus infection in the absence of serological markers or with atypical serological patterns] Moreno García M. **Rev Clin Esp** 1997 Apr;197(4):248–58 (148 ref.) **(Spa)**

[A case of chronic active viral hepatitis B combined with HIV carriage, malaria and syphilis] Shkurba AV, et al. **Lik Sprava** 1996 Oct–Dec;(10–12):158–9 **(Ukr)**

DIET THERAPY

Essential fatty acid supplementation in chronic hepatitis B. Jenkins AP, et al. **Aliment Pharmacol Ther** 1996 Aug; 10(4):665–8

DRUG THERAPY

Subcutaneously administered recombinant human beta-interferon in the treatment of chronic hepatitis B virus infection. Guan R, et al. **Aliment Pharmacol Ther** 1996 Oct; 10(5):807–14

Treatment of chronic hepatitis B and hepatitis C with interferon alfa-2b [see comments] Molloy PJ, et al. **Am Fam Physician** 1996 Oct;54(5):1598–605. Comment in: Am Fam Physician 1997 May 15;55(7):2434.

Effects of lamivudine on replication of hepatitis B virus in HIV-infected men. Benhamou Y, et al. **Ann Intern Med** 1996 Nov 1;125(9):705–12

Famciclovir: review of clinical efficacy and safety. Cirelli R, et al. **Antiviral Res** 1996 Mar;29(2–3):141–51 (54 ref.)

Natural human interferon alpha may act differently when given parenterally or orally to patients chronically infected with hepatitis B virus. Georgiades JA. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):11–22 (47 ref.)

Potential role of lamivudine (3TC) in the clearance of chronic hepatitis B virus infection in a patient coinfected with human immunodeficiency virus type. Schnittman SM, et al. **Clin Infect Dis** 1996 Sep;23(3):638–9

Targeting hepatitis B therapy to the liver. Clinical pharmacokinetic considerations. Rensen PC, et al. **Clin Pharmacokinet** 1996 Aug;31(2):131–55 (190 ref.)

Thymus-derived peptides for chronic viral hepatitis: have they fulfilled their promise? [editorial; comment] Di Bisceglie AM. **Dig Dis** 1996 Nov–Dec;14(6):331–3. Comment on: Dig Dis 1996 Nov–Dec;14(6):362–70.

Thymus-derived peptides in the treatment of viral chronic hepatitis [see comments] Naylor PH, et al. **Dig Dis** 1996 Nov–Dec;14(6):362–70 (41 ref.). Comment in: Dig Dis 1996 Nov–Dec;14(6):331–3.

Mitochondrial injury. Lessons from the fialuridine trial. Honkoop P, et al. **Drug Saf** 1997 Jul;17(1):1–7 (37 ref.)

Influence of recombinant interferon alpha on nutritional status and growth pattern in children with chronic viral hepatitis. Gottrand F, et al. **Eur J Pediatr** 1996 Dec; 155(12):1031–4

Lamivudine therapy for chronic hepatitis B: a six-month randomized dose-ranging study. Nevens F, et al. **Gastroenterology** 1997 Oct;113(4):1258–63

Lamivudine treatment of advanced and decompensated liver disease due to hepatitis B. Van Thiel DH, et al. **Hepatogastroenterology** 1997 May–Jun;44(15):808–12

Combination therapy for chronic hepatitis B [editorial; comment] Fontana RJ, et al. **Hepatology** 1997 Jul; 26(1):234–7. Comment on: Hepatology 1997 Jul;26(1):216–25.

Lamivudine is effective in suppressing hepatitis B virus DNA in Chinese hepatitis B surface antigen carriers: a placebo-controlled trial. Lai CL, et al. **Hepatology** 1997 Jan;25(1):241–4

Chronic hepatitis B: the therapeutic challenge. Locarnini SA, et al. **J Antimicrob Chemother** 1997 May;39(5):559–62 (29 ref.)

Hepatotropic conjugate of adenine arabinoside monophosphate with lactosaminated poly-L-lysine. Synthesis of the carrier and pharmacological properties of the conjugate. Fiume L, et al. **J Hepatol** 1997 Feb; 26(2):253–9

Lamivudine resistance in immunocompetent chronic hepatitis B. Incidence and patterns. Honkoop P, et al. **J Hepatol**

1997 Jun;26(6):1393–5

Treatment of hepatitis B–related polyarteritis nodosa with famciclovir and interferon alfa–2b. Kruger M, et al. **J Hepatol** 1997 Apr;26(4):935–9

Interferon vs. adenine arabinoside 5'–monophosphate in patients with anti–HBe–positive chronic hepatitis. Buti M, et al. **J Med Virol** 1996 Aug;49(4):325–8

Heterogeneous response for a mammalian hepadnavirus infection to acyclovir: drug–arrested intermediates of minus–strand viral DNA synthesis are enveloped and secreted from infected cells as virion–like particles. Tencza MG, et al. **J Med Virol** 1997 Jan;51(1):6–16

Relevance of inapparent coinfection by hepatitis B virus in alpha interferon–treated patients with hepatitis C virus chronic hepatitis. Zignego AL, et al. **J Med Virol** 1997 Apr;51(4):313–8

Exacerbation of peripheral neuropathy during alpha–interferon therapy in a patient with mixed cryoglobulinemia and hepatitis B virus infection. La Civita L, et al. **J Rheumatol** 1996 Sep;23(9):1641–3

alpha–Interferon–2b treatment for chronic hepatitis–B infection in children with cancer. Cetingül N, et al. **J Trop Pediatr** 1996 Oct;42(5):262–6

Interferon–alpha 2a for chronic hepatitis B with e antigen or antibody:comparable antiviral effects on wild–type virus and precore mutant. Aikawa T, et al. **J Viral Hepat** 1995; 2(5):243–50

Targeted delivery of antisense DNA in woodchuck hepatitis virus–infected woodchucks. Bartholomew RM, et al. **J Viral Hepat** 1995;2(6):273–8

The use of deferoxamine infusions to enhance the response rate to interferon–alpha treatment of chronic viral hepatitis B. Bayraktar Y, et al. **J Viral Hepat** 1996 May;3(3):129–35

Relationship between the serum alanine aminotransferase level at the end of interferon treatment and histologic changes in wild–type and precore mutant hepatitis B virus infections. Bayraktar Y, et al. **J Viral Hepat** 1996 May; 3(3):137–42

Quantitative assessment of serum hepatitis B e antigen, IgM hepatitis B core antibody and HBV DNA in monitoring the response to treatment in patients with chronic hepatitis B. Bernard F, et al. **J Viral Hepat** 1997 Jul;4(4):265–72

Long–term effects of interferon–alpha in five HIV–positive patients with chronic hepatitis B. di Martino V, et al. **J Viral Hepat** 1996 Sep;3(5):253–60

Interleukin–12: potential clinical applications in the treatment of chronic viral hepatitis. Gately MK. **J Viral Hepat** 1997; 4 Suppl 1:33–9 (48 ref.)

Interferon–alpha 2b improves short–term survival in patients transplanted for chronic liver failure caused by hepatitis B. Hassanein T, et al. **J Viral Hepat** 1996 Nov;3(6):333–40

Efficacy of prolonged interferon–alpha treatment in chronic hepatitis B patients with HBeAb: comparison between 6 and 12 months of therapy. Lopez–Alcorocho JM, et al. **J Viral Hepat** 1997;4 Suppl 1:27–32

Analysis of hepatitis B virus precore variants in hepatitis B e antibody–positive patients treated with prednisone plus interferon. Lopez–Alcorocho JM, et al. **J Viral Hepat** 1995; 2(6):279–84

A double blind, placebo–controlled study to assess the effect of famciclovir on virus replication in patients with chronic hepatitis B virus infection. Main J, et al. **J Viral Hepat** 1996 Jul;3(4):211–5

Prolonged interferon–alpha therapy of hepatitis B virus–related decompensated cirrhosis. Marcellin P, et al. **J Viral Hepat** 1997;4 Suppl 1:21–6

Combination low–dose lymphoblastoid interferon and thymosin alpha 1 therapy in the treatment of chronic hepatitis B. Rasi G, et al. **J Viral Hepat** 1996 Jul;3(4):191–6

A preliminary experience with GM–CSF plus interferon in patients with HBV and HCV resistant to interferon therapy. Van Thiel DH, et al. **J Viral Hepat** 1997;4 Suppl 1:101–6

In vivo inhibition of hepatitis B viral gene expression by antisense phosphorothioate oligodeoxynucleotides in athymic nude mice. Yao Z, et al. **J Viral Hepat** 1996 Jan; 3(1):19–22

Hepatitis–B–virus resistance to lamivudine given for recurrent infection after orthotopic liver transplantation [see comments] Bartholomew MM, et al. **Lancet** 1997 Jan 4;349(9044):20–2. Comment in: Lancet 1997 Jan 4;349(9044):3–4.

Clinical implications of lamivudine resistance by HBV [comment] Schalm SW. **Lancet** 1997 Jan 4;349(9044):3–4. Comment on: Lancet 1997 Jan 4;349(9044):20–2.

Prolonged and high dose recombinant interferon alpha–2b alone or after prednisone priming accelerates termination of active viral replication in children with chronic hepatitis B infection. Vajro P, et al. **Pediatr Infect Dis J** 1996 Mar; 15(3):223–31

Distribution of the predominant hepatitis B virus precore variants in hepatitis B e antigen–positive children and their effect on treatment response. Cabrerizo M, et al. **Pediatr Res** 1996 Jun;39(6):980–4

Use of novel beta–L(–)–nucleoside analogues for treatment and prevention of chronic hepatitis B virus infection and hepatocellular carcinoma. Bridges EG, et al. **Prog Liver Dis** 1995;13:231–45 (70 ref.)

Disclosing data can get you in trouble [news] Marshall E. **Science** 1997 May 2;276(5313):671–2

Hepatitis B: diagnosis and treatment. Davis GL. **South Med J** 1997 Sep;90(9):866–70; quiz 871 (15 ref.)

Famciclovir therapy for recurrent hepatitis B virus infection after liver transplantation. Haller GW, et al. **Transpl Int** 1996;9 Suppl 1:S210–2

Treatment of hepatitis B virus replication by ganciclovir in kidney transplant patients. Garnier JL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):817

Should hepatitis B immunoglobulin therapy be discontinued after HBV reinfection following liver transplantation? Safadi R, et al. **Transplant Proc** 1997 Sep;29(6):2680–3

Efficacy of lamivudine in chronic hepatitis B patients with active viral replication and decompensated cirrhosis undergoing liver transplantation. Bain VG, et al. **Transplantation** 1996 Nov 27;62(10):1456–62

Beneficial effect of lamivudine in recurrent hepatitis B after liver transplantation. Ben–Ari Z, et al. **Transplantation** 1997 Feb 15;63(3):393–6

Conversion of recurrent delta–positive hepatitis B infection to seronegativity with famciclovir after liver transplantation. Klein M, et al. **Transplantation** 1997 Jul 15;64(1):162–3

[Lamivudine resistance impedes hepatitis B therapy (news)] Eggers HJ. **Fortschr Med** 1997 Apr 30;115(12):5 **(Ger)**

[Therapy noncompliance in chronic viral hepatitis—standard therapy, prognostic parameters, treatment strategy] Hopf U. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):83–5 **(Ger)**

[Therapy of chronic hepatitis B virus infection with the nucleoside analog lamivudine] Jung MC, et al. **Z Gastroenterol** 1996 Dec;34(12):827–8 **(Ger)**

[Retrovir in the treatment of acute viral hepatitis B] Rakhmanova AG, et al. **Klin Med (Mosk)** 1996;74(5):53–5 **(Rus)**

[The efficacy of caleflone in treating patients with viral hepatitis] Neĭko EM, et al. **Lik Sprava** 1995 Sep–Dec; (9–12):138–9 (Eng. Abstr.) **(Ukr)**

ECONOMICS

An economic evaluation of universal vaccination against hepatitis B virus. Fenn P, et al. **J Infect** 1996 May; 32(3):197–204

[Cost structure of hepatitis B infection] Szucs TD, et al. **Fortschr Med** 1997 Feb 10;115(4):47–8 **(Ger)**

ENZYMOLOGY

Differential induction of carcinogen metabolizing enzymes in a transgenic mouse model of fulminant hepatitis. Chemin I, et al. **Hepatology** 1996 Sep;24(3):649–56

Abnormal intracellular distribution of O6–alkylguanine–DNA–alkyltransferase in hepatitis B cirrhotic human liver: a potential cofactor in the development of hepatocellular carcinoma. Lee SM, et al. **Hepatology** 1996 Nov;24(5):987–90

Serine protease inhibitors in patients with chronic viral hepatitis. Elzouki AN, et al. **J Hepatol** 1997 Jul;27(1):42–8

Revised cutoff values of serum aminotransferase in detecting viral hepatitis among CAPD patients: experience from Taiwan, an endemic area for hepatitis B. Hung KY, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):180–3

Human serum alcohol dehydrogenase isoenzymes as a markers of liver injury during viral hepatitis. Chrostek L, et al. **Rocz Akad Med Bialymst** 1996;41(2):268–76

[The interaction of the cyclase and immune systems in patients with viral hepatitis A and B] Rashidova ShM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):79–83 **(Rus)**

EPIDEMIOLOGY

Seroprevalence and coprevalence of HIV and HBsAg in Nigerian children with/without protein energy malnutrition. Akenami FO, et al. **Acta Trop** 1997 Apr 15; 64(3–4):167–74

Prevalence of markers for hepatitis B virus and HIV–1 among drug injectors in London: injecting careers, positivity and risk behaviour. Rhodes T, et al. **Addiction** 1996 Oct; 91(10):1457–67

Interactions between HIV and hepatitis B virus in homosexual men: effects on the natural history of infection. Gilson RJ, et al. **AIDS** 1997 Apr;11(5):597–606

Seroprevalence of hepatitis B and hepatitis C among rural emergency medical care personnel. Werman HA, et al. **Am J Emerg Med** 1997 May;15(3):248–51 (15 ref.)

Seroprevalence of hepatitis B virus among school–age children in the Stann Creek District of Belize, Central America. Chamberlin J, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):452–5

Hepatitis B virus, human immunodeficiency virus type–1, and syphilis among women attending prenatal clinics in Belize, Central America. Scott–Wright A, et al. **Am J Trop Med Hyg** 1997 Mar;56(3):285–90

HIV, hepatitis B, and hepatitis C in the Code One trauma population. Henein MN, et al. **Am Surg** 1997 Jul;63(7):657–9

Hepatitis B virus carriers in the treatment of malignant lymphoma: an epidemiological study in Japan. Kumagai K, et al. **Ann Oncol** 1997;8 Suppl 1:107–9

Epidemiological survey of infection with hepatitis B virus in the savannah and wetlands (Pantanal) of central Brazil. Souto FJ, et al. **Ann Trop Med Parasitol** 1997 Jun; 91(4):411–6

Primary hepatocellular carcinoma in patients with chronic hepatitis B virus infection. Kiszkis H. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):315–23 (50 ref.)

National surveillance of dialysis associated diseases in the United States, 1993. Tokars JI, et al. **ASAIO J** 1996 May–Jun;42(3):219–29

Validation of hepatitis B surveillance data [letter] Rushworth RL, et al. **Aust N Z J Public Health** 1997 Apr;21(2):217

Hepatitis B virus markers among the prostitutes of Dhaka. Sattar H, et al. **Bangladesh Med Res Counc Bull** 1996 Apr; 22(1):8–11

"Acute hepatitis B" incidence in Canada. Tepper M. **Can Commun Dis Rep** 1997 Apr 1;23(7):52–5 **(Eng, Fre)**

A population–based hepatitis B seroprevalence and risk factor study in a northern Ontario town. Glasgow KW, et al. **Can J Public Health** 1997 Mar–Apr;88(2):87–90

Mutual confounding and interactive effects between hepatitis C and hepatitis B viral infections in hepatocellular carcinogenesis: a population–based case–control study in Taiwan. Sun CA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):173–8

The liver biochemical tests and serological markers of hepatitis B virus in the very old–aged population in Taiwan. Hsu SH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan;57(1):16–21

The epidemiology of hepatitis viruses B, C, and D. London WT, et al. **Clin Lab Med** 1996 Jun;16(2):251–71 (135 ref.)

Childhood infection with hepatitis A and B viruses in England and Wales. Hesketh LM, et al. **Commun Dis Rep CDR Rev** 1997 Apr 4;7(4):R60–3

The prevalence of positive hepatitis B, hepatitis C, and HIV serology in cornea donors prescreened by medical and social history in Ontario, Canada. Armstrong SA, et al. **Cornea** 1997 Sep;16(5):512–6

Prevalence of transmissible blood infections among blood donors at the University of Maiducuri Teaching Hospital, Maiduguri, Nigeria. Chikwem JO, et al. **East Afr Med J** 1997 Apr;74(4):213–6

Acute hepatitis B in Edinburgh 1975–92: a retrospective study in a population where human immunodeficiency virus is highly prevalent. Bath GE, et al. **Epidemiol Infect** 1997 Aug;119(1):85–9

Epidemiological patterns of hepatitis B virus (HBV) in highly endemic areas. Edmunds WJ, et al. **Epidemiol Infect** 1996 Oct;117(2):313–25

Prevalence of hepatitis B virus infection in pregnant Turkish women and their families. Kuru U, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):248–51

Prevalence of hepatitis A, B and C in the Flemish population. Beutels M, et al. **Eur J Epidemiol** 1997 Apr;13(3):275–80

Prevalence of hepatitis A, B, and C markers in school children of a rural area of Crete, Greece. Lionis C, et al. **Eur J Epidemiol** 1997 Jun;13(4):417–20

Utility of an anonymous questionnaire for the identification of a primary transmission route and possible secondary transmission in adults with acute hepatitis B virus infection. Struve J, et al. **Eur J Epidemiol** 1996 Jun;12(3):319–22

Risk of hepatobiliary disease in adults with severe alpha 1–antitrypsin deficiency (PiZZ): is chronic viral hepatitis B or C an additional risk factor for cirrhosis and hepatocellular carcinoma? Elzouki AN, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):989–94

Hepatitis B and C infection in children with Down syndrome [letter] Piccione M, et al. **Eur J Pediatr** 1997 May; 156(5):420–1

Hepatitis B markers in heterosexual patients attending two genitourinary medicine clinics in the West Midlands. el–Dalil AA, et al. **Genitourin Med** 1997 Apr;73(2):127–30

Seroprevalence of hepatitis B markers among female and transsexual sex workers in Athens, Greece [letter] Tsakris A, et al. **Genitourin Med** 1997 Jun;73(3):223–4

Hepatitis B and C virus infection, alcohol drinking, and hepatocellular carcinoma: a case–control study in Italy. Brescia HCC Study. Donato F, et al. **Hepatology** 1997 Sep; 26(3):579–84

Performance characteristics and results of a large–scale screening program for viral hepatitis and risk factors associated with exposure to viral hepatitis B and C: results of the National Hepatitis Screening Survey. National Hepatitis Surveillance Group. Kaur S, et al. **Hepatology** 1996 Nov;24(5):979–86

Prevalence of hepatitis B surface antigen in pregnant Lebanese women. Nabulsi MM, et al. **Int J Gynaecol Obstet** 1997 Aug;58(2):243–4

Infection with HIV, syphilis and hepatitis B in Ethiopia: a survey in blood donors. Rahlenbeck SI, et al. **Int J STD AIDS** 1997 Apr;8(4):261–4

Detection of HBsAg and HIV carriage among blood donors or rural population of Loni areas. Jain RC, et al. **J Assoc Physicians India** 1995 May;43(5):378

Use of the hepatitis–B vaccine and infection with hepatitis B and C among orthopaedic surgeons. The American Academy of Orthopaedic Surgeons Serosurvey Study Committee. Shapiro CN, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1791–800

Relevance of intravenous cocaine use in relation to prevalence of HIV, hepatitis B and C virus markers among intravenous drug abusers in southern Italy. Guadagnino V, et al. **J Clin Lab Immunol** 1995;47(1):1–9

Hepatitis B virus infection in children: epidemiology, natural course and prevention in Taiwan. Chang MH. **J Formos Med Assoc** 1996 Aug;95(8):593–8

Prognostic factor analysis of fulminant and subfulminant hepatic failure in an area endemic for hepatitis B. Huo TI, et al. **J Gastroenterol Hepatol** 1996 Jun;11(6):560–5

A prospective clinical study of isoniazid-rifampicin-pyrazinamide-induced liver injury in an area endemic for hepatitis B. Hwang SJ, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):87-91

Hepatitis B infection and changes in interferon-alpha and -gamma production in patients with systemic lupus erythematosus in Taiwan. Lu CL, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):272-6

Acute sporadic hepatitis in the Republic of Yemen. Gunaid AA, et al. **J Med Virol** 1997 Jan;51(1):64-6

Current prevalence of hepatitis A, B and C in a well-defined area in rural Crete, Greece. Lionis C, et al. **J Viral Hepat** 1997 Jan;4(1):55-61

Risk factors for acute hepatitis B: a case-control study. Sagliocca L, et al. **J Viral Hepat** 1997 Jan;4(1):63-6

Prevalence of hepatitis B surface antigenaemia in healthy children. Abbas KA, et al. **JPMA J Pak Med Assoc** 1997 Mar;47(3):93-4

Morbidity from hepatitis B after introduction of nationwide immunisation in Italy [letter] Squarcione S, et al. **Lancet** 1997 Jul 12;350(9071):114

Hepatitis B and C in New South Wales prisons: prevalence and risk factors. Butler TG, et al. **Med J Aust** 1997 Feb 3;166(3):127-30

Incidence of bloodborne virus infection and risk behaviours in a cohort of injecting drug users in Victoria, 1990-1995. Crofts N, et al. **Med J Aust** 1997 Jul 7;167(1):17-20

The incidence of hepatitis B infection in Australia: an epidemiological review [see comments] Kaldor JM, et al. **Med J Aust** 1996 Sep 16;165(6):322-6 (42 ref.). Comment in: Med J Aust 1996 Sep 16;165(6):300-1.

Hepatitis B infection in households of HBsAg positive New Zealand children. Martin AR, et al. **N Z Med J** 1996 Dec 13;109(1035):463-5

Sexual behaviour, drug use and hepatitis B infection in Chandigarh students [see comments] Kaur U, et al. **Natl Med J India** 1996 Jul-Aug;9(4):156-9. Comment in: Natl Med J India 1996 Jul-Aug;9(4):155.

HIV and hepatitis B infection and risk behavior in young gay and bisexual men. Seage GR 3rd, et al. **Public Health Rep** 1997 Mar-Apr;112(2):158-67

Hepatitis B and C in doctors and dentists in Nigeria. Olubuyide IO, et al. **QJM** 1997 Jun;90(6):417-22

Concomitant high prevalence of hepatitis C virus antibodies and hepatitis B virus markers in a small village of the Amazon Region, Mato Grosso State, Brazil. Souto FJ, et al. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):221-3

Incidence and relative risk for hepatitis A, hepatitis B and tuberculosis and occurrence of malaria among merchant seamen. Hansen HL, et al. **Scand J Infect Dis** 1996; 28(2):107-10

Seroprevalence of and risk factors for antibodies to herpes simpiex viruses, hepatitis B, and hepatitis C among southwestern Hispanic and non-Hispanic white women. Becker TM, et al. **Sex Transm Dis** 1996 Mar-Apr; 23(2):138-44

Hepatitis B epidemiology and cultural practices in Amerindian populations of Amazonia: the Tupi-Mondé and the Xavánte from Brazil. Coimbra Júnior CE, et al. **Soc Sci Med** 1996 Jun;42(12):1735-43

A non-invasive assessment of hepatitis B virus carrier status using saliva samples. Richards AL, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):80-4

Prevalence of hepatitis B antigens in human immunodeficiency virus type 1 seropositive and seronegative pregnant women in Zambia. Oshitani H, et al. **Trans R Soc Trop Med Hyg** 1996 May-Jun;90(3):235-6

Seroepidemiology of hepatitis B, C and delta viruses in Tunisia. Triki H, et al. **Trans R Soc Trop Med Hyg** 1997 Jan-Feb;91(1):11-4

A method for estimating hepatitis B virus incidence rates in volunteer blood donors. National Heart, Lung, and Blood Institute Retrovirus Epidemiology Donor Study. Korelitz JJ, et al. **Transfusion** 1997 Jun;37(6):634-40

Prevalence of hepatitis B and C in patients registered on the cadaver kidney transplant waiting list in Mexico. Alberú J, et al. **Transplant Proc** 1996 Dec;28(6):3298-300

Effect of chronic liver disease on clinical outcome in renal allograft recipients. Durlik M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):787-90

Comparison of isolated infection by hepatitis C (HCV) or by hepatitis B (HBV) viruses and of coinfection by HCV-HBV in 1098 renal transplant patients. Pouteil-Noble C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):791-2

GB virus C infection in patients with chronic hepatitis B and C before and after liver transplantation. Berg T, et al. **Transplantation** 1996 Sep 27;62(6):711-4

Hepatitis B and C infection among drug abusers in Nepal. Shrestha SM, et al. **Trop Gastroenterol** 1996 Oct-Dec; 17(4):212-3

A clinical, epidemiological and laboratory study on avoiding the risk of transmitting viral hepatitis during vaccinations with the Dermojet protected by an anticontaminant disposable device. Dimache G, et al. **Vaccine** 1997 Jun; 15(9):1010-3

Risk factors and anti-HBc reactivity among first time blood donors. Molijn MH, et al. **Vox Sang** 1997;72(4):207-10

[A genetic epidemiologic study on HBsAg chronic carriers] Wang WJ, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):148-51 (Eng. Abstr.) **(Chi)**

[Viral hepatitis in French United Nations military personnel] Samson T, et al. **Rev Epidemiol Sante Publique** 1996 Oct; 44(5):465-9 **(Fre)**

[Frequently outside risk groups. Hepatitis B is still underestimated] Stück B. **Fortschr Med** 1997 Apr 10; 115(10):40 **(Ger)**

[High percentage of isolated anti-HBc-positive persons among prisoners] Neifer S, et al. **Gesundheitswesen** 1997 Jun;59(6):409-12 (Eng. Abstr.) **(Ger)**

[Study on the positive rate of infectious diseases in in-patients at the department of oral surgery] Komori T, et al. **Kokubyo Gakkai Zasshi** 1996 Sep;63(3):478-81 (Eng. Abstr.) **(Jpn)**

[HBV and HCV infections among selected group of patients and staff members in the prospective study] Urbanowicz W. **Przegl Epidemiol** 1996;50(4):365-70 (Eng. Abstr.) **(Pol)**

[Prevalence of hepatitis B and C infection and HIV infection in blood donors and patients from the internal diseases ward] Kozik T, et al. **Przegl Lek** 1996;53(3):159-61 (Eng. Abstr.) **(Pol)**

[Prevalence of serologic markers of hepatitis B and D viruses in children of the Caiabi and Txucarramãe tribes from the Indian Reservation of Xingu, central Brazil] Azevedo RA, et al. **Rev Soc Bras Med Trop** 1996 Sep-Oct;29(5):431-9 (Eng. Abstr.) **(Por)**

[The prevalence of HBsAg in hospitalized children as a marker of hepatitis B virus infection] Iancu L, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan-Jun; 42(1-2):95-8 (Eng. Abstr.) **(Rum)**

[Epidemiological evaluations of the incidence of posttransfusion hepatitis in Iaşi County in 1985-1995] Ivan A, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan-Jun;42(1-2):87-93 (Eng. Abstr.) **(Rum)**

[The rate of infections caused by the hepatitis viruses in the Tîrgu-Mureş area] Sabău M, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan-Jun; 38(1-2):28-31 **(Rum)**

[The epidemiological aspects of the relationship between viral hepatitis and primary liver cancer] Zavate O, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan-Jun; 38(1-2):72-5 **(Rum)**

[Epidemiological characteristics of viral hepatitis B in combination with a tuberculous infection in a hospital] Ogarkov PI, et al. **Voen Med Zh** 1996 Jul;317(7):47-50 **(Rus)**

[An epidemiological evaluation of the incidence of detecting markers of hepatitis B and C viral infection in the blood of the medical personnel of a large general hospital] Akimkin VG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):36-40 (Eng. Abstr.) **(Rus)**

[Prevalence of hepatitis B and hepatitis A virus infection among health sciences students in Catalonia, Spain] Bayas JM, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):281-4 (Eng. Abstr.) **(Spa)**

[Epidemic outbreak of hepatitis B from the tattoo in gypsy families] Rosario Pac M, et al. **Rev Esp Salud Publica** 1996 Jan-Feb;70(1):63-9 (Eng. Abstr.) **(Spa)**

[HCV and HBV seropositivity in university students of the State of Nuevo Leòn, Mexico] Flores-Castañeda MS, et al. **Rev Gastroenterol Mex** 1996 Oct-Dec;61(4):327-31 (Eng. Abstr.) **(Spa)**

[Prevalence of serologic markers of hepatitis A, B, C, and D viruses in pregnant women] Ortiz-Ibarra FJ, et al. **Salud Publica Mex** 1996 Sep-Oct;38(5):317-22 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Hepatitis B immunisation rates among infants in ethnic groups with high prevalences of hepatitis B surface antigen carriers. Oman KM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):293-6

Hepatitis B status of Hmong patients. Gjerdingen DK, et al. **J Am Board Fam Pract** 1997 Sep-Oct;10(5):322-8

Very high prevalence of hepatitis B and C in Bukharian Jewish immigrants to Israel. Glikberg F, et al. **J Clin Gastroenterol** 1997 Jan;24(1):30-3

Hepatitis B among the Khmer. Issues of translation and concepts of illness. Jackson JC, et al. **J Gen Intern Med** 1997 May;12(5):292-8

Hepatitis B, 1997 and the Chinese community--an appraisal of their relationships. Tang KY. **J Public Health Med** 1997 Jun;19(2):200-2

ETIOLOGY

Hepatitis B virus X antigen in the pathogenesis of chronic infections and the development of hepatocellular carcinoma. Feitelson MA, et al. **Am J Pathol** 1997 Apr; 150(4):1141-57 (164 ref.)

Hepatitis B virus infection in allogeneic bone marrow transplantation. Ustün C, et al. **Bone Marrow Transplant** 1997 Aug;20(4):289-96

Chronic hepatitis B infection and autoimmune thyroiditis in Down syndrome. May P, et al. **J Clin Gastroenterol** 1996 Oct;23(3):181-4

Sequential changes in full-length genomes of hepatitis B virus accompanying acute exacerbation of chronic hepatitis B. Asahina Y, et al. **J Hepatol** 1996 Dec;25(6):787-94

Reactivated fulminant hepatitis B virus replication after bone marrow transplantation: clinical course and possible treatment with ganciclovir. Mertens T, et al. **J Hepatol** 1996 Dec;25(6):968-71

Role for CD4 positive T cell response in the pathogenesis of hepatitis B [letter; comment] Pape GR, et al. **J Hepatol** 1997 May;26(5):1157-8. Comment on: J Hepatol 1996 Aug;25(2):232-8.

De novo and apparent de novo hepatitis B virus infection after liver transplantation. Roche B, et al. **J Hepatol** 1997 Mar;26(3):517-26

Hepatitis B virus transcriptional activators: mechanisms and possible role in oncogenesis. Henkler F F, et al. **J Viral Hepat** 1996 May;3(3):109-21 (129 ref.)

Revised cutoff values of serum aminotransferase in detecting viral hepatitis among CAPD patients: experience from Taiwan, an endemic area for hepatitis B. Hung KY, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):180-3

Post-transfusion hepatitis after open-heart surgery in Finland--a prospective study. Ebeling F, et al. **Transfus Med** 1991 Jun;1(2):103-7

Retransplantation of patients with severe posttransplant hepatitis B in the first allograft. Ishitani M, et al. **Transplantation** 1997 Aug 15;64(3):410-4

De novo hepatitis B and C viral infection after liver transplantation. Cavallari A, et al. **World J Surg** 1997 Jan; 21(1):78-84; discussion 85

[Advances in the research on pathogenic mechanism of chronic hepatitis B] Huang A, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):632-4 (16 ref.) **(Chi)**

[Apoptosis in human diseases: role of Fas system in liver cell injury by viral hepatitis] Mita E, et al. **Rinsho Byori** 1997 May;45(5):477-82 (15 ref.) (Eng. Abstr.) **(Jpn)**

[The effect of diabetes and cholelithiasis on the course and consequences of acute viral hepatitis type B] Janas-Skulina U, et al. **Folia Med Cracov** 1996;37(3-4):67-70 (Eng. Abstr.) **(Pol)**

[Viral hepatitis type B and C in patients with chronic renal failure treated with dialysis] Niemczyk S. **Pol Arch Med Wewn** 1996 Nov;96(5):484-9 (37 ref.) **(Pol)**

[Etiology of chronic hepatitis as evaluated by liver biopsy and serum samples submitted to the Department of Immunopathology of the National Institute of Hygiene in 1993-1995] Walewska-Zielecka B, et al. **Przegl Epidemiol** 1996;50(4):353-63 (Eng. Abstr.) **(Pol)**

[Management of viral hepatitis in patients with HIV infection] Soriano V, et al. **Rev Clin Esp** 1996 Jul;196(7):479-87 (183 ref.) **(Spa)**

[Epidemic outbreak of hepatitis B from the tattoo in gypsy families] Rosario Pac M, et al. **Rev Esp Salud Publica** 1996 Jan-Feb;70(1):63-9 (Eng. Abstr.) **(Spa)**

[Viral hepatitis and alcohol: a synergistic relationship] Kershenobich D. **Rev Gastroenterol Mex** 1995 Oct-Dec; 60(4 Suppl 2):S56 **(Spa)**

GENETICS

The hepatitis B virus posttranscriptional regulatory element contains a highly stable RNA secondary structure. Patzel V, et al. **Biochem Biophys Res Commun** 1997 Feb 24; 231(3):864-7

Restriction of V beta gene usage of liver-derived lymphocytes in chronic hepatitis B and C. Pham BN, et al. **Hum Immunol** 1996 Aug;49(1):56-63

Analysis of peptide-binding motifs for two disease associated HLA-DR13 alleles using an M13 phage display library. Davenport MP, et al. **Immunology** 1996 Aug;88(4):482-6

Allele-specific PCR analysis of p53 codon 249 AGT transversion in liver tissues from patients with viral hepatitis. Kirby GM, et al. **Int J Cancer** 1996 Sep 27; 68(1):21-5

Two core promotor mutations identified in a hepatitis B virus strain associated with fulminant hepatitis result in enhanced viral replication. Baumert TF, et al. **J Clin Invest** 1996 Nov 15;98(10):2268-76

Naturally occurring core-gene-defective hepatitis B viruses. Akarca US, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1821-6

High degree of conservation in the hepatitis B virus core gene during the immune tolerant phase in perinatally acquired chronic hepatitis B virus infection. Bozkaya H, et al. **J Hepatol** 1997 Mar;26(3):508-16

Persistence of hepatitis B virus DNA in serum and liver from patients with chronic hepatitis B after loss of HBsAg. Loriot MA, et al. **J Hepatol** 1997 Aug;27(2):251-8

Could serum HBV DNA level in the early phase of acute hepatitis B predict evolution to chronic HBV carriage? [letter] Roingeard P, et al. **J Hepatol** 1997 Apr;26(4):953-4

Infectivity and pathogenicity in chimpanzees of a surface gene mutant of hepatitis B virus that emerged in a vaccinated infant. Ogata N, et al. **J Infect Dis** 1997 Mar; 175(3):511-23

Whole genome analysis of hepatitis B virus from four cases of fulminant hepatitis: genetic variability and its potential role in disease pathogenicity. Alexopoulou A, et al. **J Viral Hepat** 1996 Jul;3(4):173-81

Relationship between the serum alanine aminotransferase level at the end of interferon treatment and histologic changes in wild-type and precore mutant hepatitis B virus infections. Bayraktar Y, et al. **J Viral Hepat** 1996 May; 3(3):137-42

Hepatitis B virus transcriptional activators: mechanisms and possible role in oncogenesis. Henkler F F, et al.

J Viral Hepat 1996 May;3(3):109–21 (129 ref.)
Rare pre–core stop–codon mutant nt. 1897 predominates over wide–spread mutant nt. 1896 in an unusual course of chronic hepatitis B. Protzer U, et al. **J Viral Hepat** 1996 May;3(3):155–62
Host genetic factors influencing the outcome of hepatitis. Thursz MR. **J Viral Hepat** 1997 Jul;4(4):215–20 (34 ref.)
Ligase chain reaction (LCR) assay for semi–quantitative detection of HBV DNA in mononuclear leukocytes of patients with chronic hepatitis B. Trippler M, et al. **J Viral Hepat** 1996 Sep;3(5):267–72
In vivo inhibition of hepatitis B viral gene expression by antisense phosphorothioate oligodeoxynucleotides in athymic nude mice. Yao Z, et al. **J Viral Hepat** 1996 Jan; 3(1):19–22
Comparison of three different hybridization assays in the quantitative measurement of serum hepatitis B virus DNA. Hwang SJ, et al. **J Virol Methods** 1996 Dec;62(2):123–9
Mannose–binding protein and susceptibility to chronic hepatitis B infection. Ezekowitz A. **Lancet** 1996 Nov 23; 348(9039):1396–7
Mutation of gene of mannose–binding protein associated with chronic hepatitis B viral infection [see comments] Thomas HC, et al. **Lancet** 1996 Nov 23;348(9039):1417–9. Comment in: Lancet 1996 Nov 23;348(9039):1396–7.
Evaluation of the N–terminal role in peptide antigenicity of the preS2 region of the hepatitis B virus surface antigen. Lee MK, et al. **Mol Cells** 1997 Jun 30;7(3):340–6
Accumulation of genetic alterations in a human hepatoma cell line transfected with hepatitis B virus. Livezey KW, et al. **Mutat Res** 1997 Jul 3;377(2):187–98
Heterozygote advantage for HLA class–II type in hepatitis B virus infection [letter] Thursz MR, et al. **Nat Genet** 1997 Sep;17(1):11–2

IMMUNOLOGY

Lichen ruber planus following the administration of human anti–hepatitis B virus immunoglobulins [letter] Tessari G, et al. **Acta Derm Venereol** 1996 Mar;76(2):154
Immunogenicity of recombinant hepatitis B vaccine among infants of mothers with active schistosomiasis. Bassily S, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):197–9
Does hepatitis B virus or hepatitis C virus infection influence CD4 count in HIV–positive individuals? Smiatacz T, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):335–43
The cellular immune status of HBsAg–positive carriers in Malaysia. Choong ML, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):19–24
Immune status and the immune response to hepatitis B virus vaccine in thalassemic patients after allogeneic bone marrow transplantation. Li Volti S, et al. **Bone Marrow Transplant** 1997 Jan;19(2):157–60
Differential localization of s and e antigens in hepatitis B virus–associated glomerulonephritis. Ohba S, et al. **Clin Nephrol** 1997 Jul;48(1):44–7
Gm and Km phenotype frequencies in children with chronic active hepatitis (CAH) B virus infection. Kacprzak–Bergman I, et al. **Eur J Immunogenet** 1994 Oct; 21(5):373–6
Frequency of complement third component (C3) and properdin factor (BF) phenotypes in patients with various clinical manifestations of HBV infection. Kacprzak–Bergman I, et al. **Eur J Immunogenet** 1996 Feb; 23(1):1–6
Different cytokine profiles of intraphepatic T cells in chronic hepatitis B and hepatitis C virus infections. Bertoletti A, et al. **Gastroenterology** 1997 Jan;112(1):193–9
Patients who do better do better. Koretz RL. **Gastroenterology** 1997 Apr;112(4):1418–20
Autoantibody prevalence in chronic hepatitis B virus infection: effect in interferon alfa. Gregorio GV, et al. **Hepatology** 1996 Sep;24(3):520–3
Surface gene mutants of hepatitis B virus in infants who develop acute or chronic infections despite immunoprophylaxis. Hsu HY, et al. **Hepatology** 1997 Sep; 26(3):786–91
Impact of complete inhibition of viral replication on the cellular immune response in chronic hepatitis B virus infection. Marinos G, et al. **Hepatology** 1996 Nov; 24(5):991–5
Predominant T–helper 1 cytokine profile of hepatitis B virus nucleocapsid–specific T cells in acute self–limited hepatitis B. Penna A, et al. **Hepatology** 1997 Apr;25(4):1022–7
Restriction of V beta gene usage of liver–derived lymphocytes in chronic hepatitis B and C. Pham BN, et al. **Hum Immunol** 1996 Aug;49(1):56–63
Immunohistochemical characterization of hepatic lymphocytes in acute hepatitis A, B, and C. Hashimoti E, et al. **J Clin Gastroenterol** 1996 Oct;23(3):199–202
Human histocompatibility leukocyte antigen–binding supermotifs predict broadly cross–reactive cytotoxic T lymphocyte responses in patients with acute hepatitis. Bertoni R, et al. **J Clin Invest** 1997 Aug 1;100(3):503–13
Cytotoxic T cells and viral hepatitis. Chisari FV. **J Clin Invest** 1997 Apr 1;99(7):1472–7 (50 ref.)
Long–lasting memory T cell responses following self–limited acute hepatitis B. Penna A, et al. **J Clin Invest** 1996 Sep 1;98(5):1185–94
Interleukin–12 induction of Th1 cytokines is important for viral clearance in chronic hepatitis B. Rossol S, et al. **J Clin Invest** 1997 Jun 15;99(12):3025–33
Spontaneous hepatitis B surface antigen clearance in a long–term follow–up study of patients with chronic type B hepatitis. Lack of correlation with hepatitis C and D virus superinfection. Da Silva LC, et al. **J Gastroenterol** 1996 Oct;31(5):696–701
Emergence and selection of HBV variants in an anti–HBe positive patient persistently infected with quasi–species. Alexopoulou A, et al. **J Hepatol** 1997 Apr;26(4):748–53
Quantitative analysis of IgM anti–HBc in chronic hepatitis B patients using a new "gray–zone" for the evaluation of "borderline" values. Colloredo G, et al. **J Hepatol** 1996 Nov;25(5):644–8
Diversity of antinuclear antibody responses in hepatocellular carcinoma. Covini G, et al. **J Hepatol** 1997 Jun; 26(6):1255–65
HLA–DRB1*1301 and *1302 protect against chronic hepatitis B. Höhler T, et al. **J Hepatol** 1997 Mar;26(3):503–7
Lamivudine resistance in immunocompetent chronic hepatitis B. Incidence and patterns. Honkoop P, et al. **J Hepatol** 1997 Jun;26(6):1393–5
Persistence of hepatitis B virus DNA in serum and liver from patients with chronic hepatitis B after loss of HBsAg. Loriot MA, et al. **J Hepatol** 1997 Aug;27(2):251–8
HLA typing in chronic type B, D and C hepatitis. Zavaglia C, et al. **J Hepatol** 1996 Jun;24(6):658–65
Pathogenetic effector function of CD4–positive T helper 1 cells in hepatitis B virus transgenic mice. Franco A, et al. **J Immunol** 1997 Aug 15;159(4):2001–8
The hepatitis B virus–specific CTL responses induced in humans by lipopeptide vaccination are comparable to those elicited by acute viral infection. Livingston BD, et al. **J Immunol** 1997 Aug 1;159(3):1383–92
Hepatitis B virus core protein mutations are concentrated in B cell epitopes in progressive disease and in T helper cell epitopes during clinical remission. Carman WF, et al. **J Infect Dis** 1997 May;175(5):1093–100
MF59 adjuvant enhances the antibody response to recombinant hepatitis B surface antigen vaccine in primates. Traquina P, et al. **J Infect Dis** 1996 Dec;174(6):1168–75
Increased serum IgE in acute type A, B and delta hepatitis. Gutiérrez D, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):119–21
A novel assay for hepatitis B e markers. Boxall EH, et al. **J Med Virol** 1997 Jul;52(3):280–5
Low expression of erythrocyte complement receptor type 1 in chronic hepatitis C patients. Kanto T, et al. **J Med Virol** 1996 Oct;50(2):126–34
Safety and immunogenicity of inactivated hepatitis A vaccine in patients with chronic liver disease. Lee SD, et al. **J Med Virol** 1997 Jun;52(2):215–8
Nonresponse to hepatitis B vaccines and the kinetics of anti–HBs production. Zuckerman JN. **J Med Virol** 1996 Dec;50(4):283–8 (62 ref.)
Defective interleukin–2 production in children with chronic hepatitis B: role of adherent cells. Guida S, et al. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):312–6
The clinical significance of surface antigen variants of hepatitis B virus. Carman WF. **J Viral Hepat** 1997;4 Suppl 1:11–20 (47 ref.)
Stimulation of human lymphocyte proliferation and CD40 antigen expression by phosphorothioate oligonucleotides complementary to hepatitis B virus genome. Chen C, et al. **J Viral Hepat** 1996 Jul;3(4):167–72
The effect of granulocyte–macrophage colony–stimulating factor (GM–CSF) on hepatitis B vaccination in haemodialysis patients. Hess G, et al. **J Viral Hepat** 1996 May;3(3):149–53
Reactogenicity and immunogenicity of a new recombinant hepatitis B vaccine containing Pre S antigens: a preliminary report. Hourvitz A, et al. **J Viral Hepat** 1996 Jan;3(1):37–42
Functional implications of hepatitis B surface antigen (HBsAg) in the T cells of chronic HBV carriers. Nagaraju K, et al. **J Viral Hepat** 1997 Jul;4(4):221–30
Anergic TH1 clones specific for hepatitis B virus (HBV) core peptides are inhibitory to other HBV core–specific CD4+ T cells in vitro. Diepolder HM, et al. **J Virol** 1996 Nov; 70(11):7540–8
Human CD4+ T–cell response to hepatitis delta virus: identification of multiple epitopes and characterization of T–helper cytokine profiles. Nisini R, et al. **J Virol** 1997 Mar;71(3):2241–51
Differential cytotoxic T–lymphocyte responsiveness to the hepatitis B and C viruses in chronically infected patients. Rehermann B, et al. **J Virol** 1996 Oct;70(10):7092–102
Seroprevalence of hepatitis B and C virus among professional blood donors—a single centre study of 135 donors in Karachi [letter] Ahmed A, et al. **JPMA J Pak Med Assoc** 1995 Nov;45(11):309
Restoration of immunity to chronic hepatitis B infection in HIV–infected patient on protease inhibitor [letter] Carr A, et al. **Lancet** 1997 Apr 5;349(9057):995–6
Natural history of hepatitis B surface antigen mutants in children [letter] [published erratum appears in Lancet 1997 Apr 12;349(9058):1106] Oon CJ, et al. **Lancet** 1996 Nov 30;348(9040):1524
Immunogenicity and reactogenicity of a combined hepatitis A/B candidate vaccine: first results. Kallinowski B, et al. **Liver** 1996 Aug;16(4):271–3
Evaluation of the N–terminal role in peptide antigenicity of the preS2 region of the hepatitis B virus surface antigen. Lee MK, et al. **Mol Cells** 1997 Jun 30;7(3):340–6
Heterozygote advantage for HLA class–II type in hepatitis B virus infection [letter] Thursz MR, et al. **Nat Genet** 1997 Sep;17(1):11–2
Hepatitis B virus markers in adult patients with glomerular diseases [letter] Gonzalo A, et al. **Nephron** 1996;72(1):113–4
Defect of cell–mediated immune response against hepatitis B virus: an indication for pathogenesis of hepatitis–B–virus–associated membranous nephropathy. Lin CY, et al. **Nephron** 1997;76(2):176–85
Anti–HBe titre in patients infected with wild–type and e–minus variant of hepatitis B virus. Tu H, et al. **Res Virol** 1996 Jan–Feb;147(1):39–43
Autoantibodies before, during and after administration of recombinant interferon–alpha for chronic viral hepatitis. Lopes EP, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep–Oct;37(5):455–60 (23 ref.)
Interferon gamma production in whole peripheral blood culture in acute hepatitis B. Osna N, et al. **Scand J Clin Lab Invest** 1996 Apr;56(2):145–50
Relationship between human leukocyte antigen determinants and courses of hepatitis B virus infection in Caucasian patients with end–stage renal disease. Chen DF, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1211–5
Increasing heterogeneity of the 'a' determinant of HBsAg found in the presumed late phase of chronic hepatitis B virus infection. Zhang YY, et al. **Scand J Infect Dis** 1996; 28(1):9–15
Seroprevalence of hepatitis B and C viral markers in patients with primary hepatocellular carcinoma in Singapore. Khin LW, et al. **Singapore Med J** 1996 Oct;37(5):492–6
Serological profiles of hepatitis B carrier patients in Singapore with special reference to the frequency and significance of concurrent presence of HBsAg and anti–HBs. Wang YM, et al. **Singapore Med J** 1996 Apr; 37(2):150–2
Two–D distance distribution analysis: an application to HBcAg–positive hepatocytes and its relation to septum formation in cirrhosis. Endoh M, et al. **Tohoku J Exp Med** 1997 Jun;182(2):181–4
Impact of immunosuppression and acute rejection on hepatitis B recurrence. Platz KP, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):509–10
Booster immunization of low– and non–responders after a standard three dose hepatitis B vaccine schedule—results of a post–marketing surveillance. Clemens R, et al. **Vaccine** 1997 Mar;15(4):349–52
Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of hepatitis B virus DNA. Lazizi Y, et al. **Vaccine** 1997 Jul;15(10):1095–100
T cell hyperreactivity to IL–6 in chronic nonviremic HBV carriers despite normal IL–6 receptor or gp130 expression. Baroja ML, et al. **Viral Immunol** 1996;9(3):187–94
Evaluation of third–generation hepatitis C antibody assay in chronic hepatitis C and chronic non–B, non–C hepatitis. Kao JH, et al. **Viral Immunol** 1995;8(3):135–9
Peptide–specific CTL induction in HBV–seropositive PBMC by stimulation with peptides in vitro: novel epitopes identified from chronic carriers. Lee HG, et al. **Virus Res** 1997 Aug;50(2):185–94
[Anti–idiotypic antibodies against antibodies to HBsAg and against antibodies to pre–S1 and pre–S2 fragments of HBV in patients with chronic HBs antigenemia] Jagielski P, et al. **Med Dosw Mikrobiol** 1996;48(1–2):79–85 (Eng. Abstr.) **(Pol)**
[A case of immunological complex–related disease in a child with type B viral hepatitis] Mrozińska M. **Pediatr Pol** 1996 Apr;71(4):347–50 (Eng. Abstr.) **(Pol)**
[Prognosis in acute viral hepatitis B in children] Kowalik–Mikołajewska B, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):185–6 (Eng. Abstr.) **(Pol)**
[The specific serological profile in hepatitis B virus infection in children] Iancu LS, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan–Jun; 42(1–2):55–7 (Eng. Abstr.) **(Rum)**
[Profiles of serological markers of HBV–infection in acute hepatitis B] Nikiforov ND, et al. **Klin Med (Mosk)** 1996; 74(7):16–8 (Eng. Abstr.) **(Rus)**
[The transformation of acute viral hepatitis B into chronic] Sorinson SN, et al. **Klin Med (Mosk)** 1996;74(2):37–40 (Eng. Abstr.) **(Rus)**
[Immunological markers in patients with a history of viral hepatitis B and D and HBsAg carriers] Leĭbenzon AS. **Lik Sprava** 1995 Mar–Apr;(3–4):107–9 **(Rus)**
[The level of circulating immune complexes and the microhemodynamic status in chronic liver lesions] Petrunia AM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):77–9 (Eng. Abstr.) **(Rus)**
[The interaction of the cyclase and immune systems in patients with viral hepatitis A and B] Rashidova ShM, et al. **Lik Sprava** 1996 Jan–Feb;(1–2):79–83 **(Rus)**
[Effect of phytotherapy on the prevention and elimination of hepatotoxic responses in patients with pulmonary tuberculosis, carriers of hepatitis B virus markers] Galitskiĭ LA, et al. **Probl Tuberk** 1997;(4):35–8 (Eng. Abstr.) **(Rus)**
[The characteristics of the immune response in acute viral hepatitis B] Cheshik SG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):64–8 (Eng. Abstr.) **(Rus)**
[The clinico–pathogenetic importance of evaluating monocyte phagocytic activity in viral hepatitis in children] Izvekova VA, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):60–4 (Eng. Abstr.) **(Rus)**

[Seroprevalence of hepatitis A antibodies in patients with chronic hepatitis (letter)] Bañares R, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):183 **(Spa)**

[Study of HLA-II antigens in chronic hepatitis C and B and in acute hepatitis B] Cotrina M, et al. **Gastroenterol Hepatol** 1997 Mar;20(3):115-8 (Eng. Abstr.) **(Spa)**

[Viral hepatitis markers and the liver connective tissue, blood leukocyte and bone marrow systems in patients with chronic hepatitis] Babak OIa. **Lik Sprava** 1995 Mar-Apr; (3-4):147-9 **(Ukr)**

[Viral infection and rheumatic diseases] Handzha IM, et al. **Lik Sprava** 1997 Jan-Feb;(1):37-9 (Eng. Abstr.) **(Ukr)**

METABOLISM

Seroprevalence and coprevalence of HIV and HBsAg in Nigerian children with/without protein energy malnutrition. Akenami FO, et al. **Acta Trop** 1997 Apr 15; 64(3-4):167-74

Glutathione S-transferase expression in hepatitis B virus-associated human hepatocellular carcinogenesis. Zhou T, et al. **Cancer Res** 1997 Jul 1;57(13):2749-53

Liver iron concentration in chronic viral hepatitis: a study of 98 patients. Piperno A, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1203-8

Effect of lamivudine on morphology and function of mitochondria in patients with chronic hepatitis B. Honkoop P, et al. **Hepatology** 1997 Jul;26(1):211-5

Hepatitis B infection and changes in interferon-alpha and -gamma production in patients with systemic lupus erythematosus in Taiwan. Lu CL, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):272-6

Threshold effect of liver iron content on hepatic inflammation and fibrosis in hepatitis B and C. Beinker NK, et al. **J Hepatol** 1996 Nov;25(5):633-8

Interleukin-1-producing plasma cells in close contact with hepatocytes in patients with chronic active hepatitis. Hassan G, et al. **J Hepatol** 1997 Jul;27(1):6-17

Fas antigen expression in liver tissues of patients with chronic hepatitis B. Mochizuki K, et al. **J Hepatol** 1996 Jan; 24(1):1-7

Intracellular accumulation of incompletely processed transforming growth factor-alpha polypeptides in ground glass hepatocytes of chronic hepatitis B virus infection. Schirmacher P, et al. **J Hepatol** 1996 May;24(5):547-54

Woodchuck hepatitis virus X protein is present in chronically infected woodchuck liver and woodchuck hepatocellular carcinomas which are permissive for viral replication. Dandri M, et al. **J Virol** 1996 Aug;70(8):5246-54

Serum trace metal levels in patients with acute hepatitis B. Pramoolsinsap C, et al. **Southeast Asian J Trop Med Public Health** 1996 Sep; 27(3):476-80

MORTALITY

Interferon-alpha 2b improves short-term survival in patients transplanted for chronic liver failure caused by hepatitis B. Hassanein T, et al. **J Viral Hepat** 1996 Nov;3(6):333-40

[Viral hepatitis B in 1995] Szata W. **Przegl Epidemiol** 1997; 51(1-2):129-33 **(Pol)**

PATHOLOGY

Relationship between composition of lymphoid cell infiltrates in the liver and replication status in chronic hepatitis B: an immunohistochemical study. Mosnier JF, et al. **Am J Clin Pathol** 1996 Nov;106(5):625-33

Exacerbation of hepatitis in hepatitis B carriers following chemotherapy for haematological malignancies. Wong GC, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):500-3

Hepatocellular injury in hepatitis B and C virus infections. Feitelson MA. **Clin Lab Med** 1996 Jun;16(2):307-24 (110 ref.)

The role of HBV DNA and liver histopathology in HBsAg carriers. Agalar C, et al. **Hepatogastroenterology** 1997 Jul-Aug;44(16):1196-9

Hepatitis B virus carriers without precore mutations in hepatitis B e antigen-negative stage show more severe liver damage. Lindh M, et al. **Hepatology** 1996 Sep;24(3):494-501

Intra-observer and inter-observer variation in the histopathological assessment of chronic viral hepatitis. Goldin RD, et al. **J Hepatol** 1996 Nov;25(5):649-54

Depletion of mitochondrial DNA, destruction of mitochondria, and accumulation of lipid droplets result from fialuridine treatment in woodchucks (Marmota monax). Lewis W, et al. **Lab Invest** 1997 Jan;76(1):77-87

Histological improvement in patients with chronic hepatitis B virus infection treated with lamivudine. Honkoop P, et al. **Liver** 1997 Apr;17(2):103-6

Mutations of the X region of hepatitis B virus and their clinical implications. Uchida T, et al. **Pathol Int** 1997 Apr; 47(4):183-93 (150 ref.)

Pathomorphologic comparison of hepatitis C virus-related and hepatitis B virus-related cirrhosis bearing hepatocellular carcinoma. Kojiro M, et al. **Princess Takamatsu Symp** 1995;25:179-84

Peritoneoscopic liver biopsy findings in asymptomatic chronic HBsAg carriers with normal liver function tests and no hepatomegaly. Chon CY, et al. **Yonsei Med J** 1996 Oct;37(5):295-301

[Morphologic criteria for the assessment of etiology, degree of activity and stage of the process in viral chronic hepatitis B and C] Serov VV, et al. **Arkh Patol** 1996 Jul-Aug; 58(4):61-4 (Eng. Abstr.) **(Rus)**

[Comparative morphologic characteristics of viral hepatitis B and C] Serov VV, et al. **Arkh Patol** 1996 Sep-Oct; 58(5):47-52 (Eng. Abstr.) **(Rus)**

[Liver morphology in patients with pulmonary tuberculosis with viral hepatitis B and organochlorine pesticides markers] Mukhtarov DZ, et al. **Probl Tuberk** 1997;(1):54-6 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Acute hepatic toxicity during cyclic chemotherapy in non Hodgkin's lymphoma. Faggioli P, et al. **Haematologica** 1997 Jan-Feb;82(1):38-42

Hepatitis B virus X gene 1751 to 1764 mutations: implications for HBeAg status and disease. Kidd-Ljunggren K, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1469-78

The role of free oxygen radicals in children with chronic viral hepatitis B. Lebensztejn DM, et al. **Rocz Akad Med Bialymst** 1995;40(3):667-72

Hepatitis B recurrence in relation to immunosuppression and acute allograft rejection. Platz KP, et al. **Transplant Proc** 1996 Dec;28(6):3236-7

Association between the accumulation of hepatitis B virus core gene deletion mutants and progression of liver disease in long-term renal transplant patients. Reinke P, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):815-6

Natural course of de novo hepatitis B virus infection in liver transplant recipients. Safadi R, et al. **Transplant Proc** 1997 Sep;29(6):2677-9

Intra- and extrahepatic arterial resistances in chronic hepatitis and liver cirrhosis. Piscaglia F, et al. **Ultrasound Med Biol** 1997;23(5):675-82

[Changes of hemostasis in patients with acute hepatitis B and hepatic encephalopathy] Bogomolov BP, et al. **Klin Med (Mosk)** 1997;75(4):26-7 **(Rus)**

[The microhemodynamics and immune status of patients with chronic viral lesions of the liver and their correction] Frolov VM, et al. **Lik Sprava** 1996 Oct-Dec;(10-12):144-6 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Reduced immune response to hepatitis B vaccine in children with insulin dependent diabetes. Fiçicioğlu C, et al. **Acta Paediatr Jpn** 1995 Dec;37(6):687-90

Hepatitis B vaccination in HIV-1-infected children: double efficacy doubling the paediatric dose [letter] Scolfaro C, et al. **AIDS** 1996 Sep;10(10):1169-70

Hepatitis B vaccine booster dose: low-dose recombinant hepatitis B vaccines as a booster dose. Bryan JP, et al. **Am J Infect Control** 1997 Jun;25(3):215-22

Efficacy of a high and accelerated dose of hepatitis B vaccine in alcoholic patients: a randomized clinical trial. Rosman AS, et al. **Am J Med** 1997 Sep;103(3):217-22

Antibody level after hepatitis B vaccination in hemodialysis patients: influence of hepatitis C virus infection. Navarro JF, et al. **Am J Nephrol** 1996;16(2):95-7

Immunogenicity of recombinant hepatitis B vaccine among infants of mothers with active schistosomiasis. Bassily S, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):197-9

Newborn hepatitis B immunization rates in primary care practices. Bertolino JG. **Arch Pediatr Adolesc Med** 1996 Nov;150(11):1173-6

Prevention of hepatitis A and B. Bell S, et al. **Aust Fam Physician** 1997 Aug;26(8):933-6

An adolescent hepatitis B immunisation program. The Preston experience. Howsam R, et al. **Aust Fam Physician** 1996 Mar;25(3):352-4

Why should Australia adopt universal infant hepatitis B vaccination? Thompson SC, et al. **Aust N Z J Public Health** 1996 Aug;20(4):436-9

Protective role of selenium against hepatitis B virus and primary liver cancer in Qidong. Yu SY, et al. **Biol Trace Elem Res** 1997 Jan;56(1):117-24

Integration of hepatitis B vaccination into national immunisation programmes. Alternative strategies must be considered before universal vaccination is adopted [letter; comment] Dunn J, et al. **BMJ** 1997 Jul 12;315(7100):121-2 . Comment on: BMJ 1997 Apr 5;314(7086):1033-6.

Commentary: antenatal screening and targeting should be sufficient in some countries [comment] Mortimer PP, et al. **BMJ** 1997 Apr 5;314(7086):1036-7. Comment on: BMJ 1997 Apr 5;314(7086):1033-6.

Integration of hepatitis B vaccination into national immunisation programmes. Delivering vaccine to infants at risk is complex [letter; comment] Nesbitt A, et al. **BMJ** 1997 Jul 12;315(7100):121. Comment on: BMJ 1997 Apr 5;314(7086):1033-6.

Mistake in report: hepatitis B vaccination for drug misusers is recommended [letter] Polkinghorne J, et al. **BMJ** 1997 Jul 5;315(7099):61

Three quarters of one French prison population needed immunisation against hepatitis B [letter] Rotily M, et al. **BMJ** 1997 Jul 5;315(7099):61

Canada plans new regulations on hepatitis B [news] Spurgeon D. **BMJ** 1997 Jun 7;314(7095):1645

Integration of hepatitis B vaccination into national immunisation programmes. Viral Hepatitis Prevention Board [see comments] Van Damme P, et al. **BMJ** 1997 Apr 5;314(7086):1033-6 (18 ref.). Comment in: BMJ 1997 Apr 5;314(7086):1036-7. Comment in: BMJ 1997 Jul 12;315(7100):121. Comment in: BMJ 1997 Jul 12;315(7100):121-2.

Implementing guidance on hepatitis B for applicants to medical school is time consuming [letter; comment] Williams S, et al. **BMJ** 1997 Jan 18;314(7075):225. Comment on: BMJ 1996 Oct 5;313(7061):830-1. Comment on: BMJ 1996 Oct 5;313(7061):856-7.

Immune response to a new hepatitis B vaccine in healthcare workers who had not responded to standard vaccine: randomised double blind dose-response study. Zuckerman JN, et al. **BMJ** 1997 Feb 1;314(7077):329-33

Lack of compliance with hepatitis B vaccination among Canadian STD clinic patients: candidates for an accelerated immunization schedule? Sellors J, et al. **Can J Public Health** 1997 May-Jun;88(3):210-1

School-based hepatitis B immunization program: follow-up of non-participants at first school clinic. Stewart P, et al. **Can J Public Health** 1997 May-Jun;88(3):192-6

Hepatitis B. Tepper ML, et al. **Can Med Assoc J** 1997 Apr 1;156(7):1033-4 **(Eng, Fre)**

Hepatitis B virus variants and their significance in pathogenesis, prevention and treatment. Wen Y. **Chin Med J (Engl)** 1996 Jan;109(1):39-41 (11 ref.)

Hepatitis B: diagnosis, prevention, and treatment. Gitlin N. **Clin Chem** 1997 Aug;43(8 Pt 2):1500-6 (55 ref.)

Response: Lessons from two linked clusters of acute hepatitis B in cardiothoracic surgery patients [letter; comment] Drabu YJ, et al. **Commun Dis Rep CDR Rev** 1996 Nov 8;6(12):R178. Comment on: Commun Dis Rep CDR Rev 1996 Aug 16;6(9):R119-25.

Strengthening measures to protect health care workers and patients from hepatitis B virus. **Commun Dis Rep CDR Wkly** 1996 Oct 4;6(40):347

Should antibody to hepatitis B core antigen be tested in routine screening of donor corneas for transplant? [see comments] Mattern RM, et al. **Cornea** 1997 Mar; 16(2):138-45 (63 ref.). Comment in: Cornea 1997 Mar;16(2):123-4.

Hepatitis B vaccination in diabetic patients. Randomized trial comparing recombinant vaccines containing and not containing pre-S2 antigen. Douvin C, et al. **Diabetes Care** 1997 Feb;20(2):148-51

Hepatitis B and C virus infection in Polish children with malignancies. Januszkiewicz D, et al. **Eur J Pediatr** 1997 Jun;156(6):454-6

Hepatitis B virus infection and liver transplantation. Terrault NA, et al. **Gut** 1997 May;40(5):568-71

Hepatitis B vaccination results in 140 liver transplant recipients. Loinaz C, et al. **Hepatogastroenterology** 1997 Jan-Feb;44(13):235-8

Hepatitis B virus envelope variation after transplantation with and without hepatitis B immune globulin prophylaxis. Carman WF, et al. **Hepatology** 1996 Sep;24(3):489-93

Humoral and cellular immune responses to hepatitis B vaccination in hepatitis B surface antigen-carrier children who cleared serum-hepatitis B surface antigen. Hsu HY, et al. **Hepatology** 1996 Dec;24(6):1355-60

Prophylaxis in liver transplant recipients using a fixed dosing schedule of hepatitis B immunoglobulin. Terrault NA, et al. **Hepatology** 1996 Dec;24(6):1327-33

Adult immunizations: how are we doing? Eickhoff TC. **Hosp Pract (Off Ed)** 1996 Nov 15;31(11):107-8, 111-2, 115-7, passim (12 ref.)

Accelerated, low-dose, intradermal hepatitis B vaccine [letter] Contractor QQ, et al. **Indian J Gastroenterol** 1997 Jan;16(1):37

Granulocyte-macrophage colony-stimulating factor given as an adjuvant to persons not responding to hepatitis B vaccine [letter] Carlsson T, et al. **Infection** 1997 Mar-Apr; 25(2):129

Optimising the safety of blood products [editorial; comment] Pauli G. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):122-3. Comment on: Infusionsther Transfusionsmed 1996 Jun;23(3):124-30.

How accurate is serologic testing of plasma pools for hepatitis B virus surface antigen, anti-human immunodeficiency virus 1 and 2, and anti-hepatitis C virus? [see comments] Rabenau H, et al. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):124-30. Comment in: Infusionsther Transfusionsmed 1996 Jun;23(3):122-3.

Response to hepatitis B vaccination in a primary care setting: influence of HIV infection, CD4+ lymphocyte count and vaccination schedule. Wong EK, et al. **Int J STD AIDS** 1996 Nov-Dec;7(7):490-4

Hepatitis B vaccination: uptake by medical staff in accident and emergency departments. Nee PA, et al. **J Accid Emerg Med** 1995 Dec;12(4):282-5

Factors affecting the decision of nursing students in Taiwan to be vaccinated against hepatitis B infection. Lin WC, et al. **J Adv Nurs** 1997 Apr;25(4):709-18

Hepatitis B: community solutions [editorial] Culpepper L. **J Am Board Fam Pract** 1997 Sep-Oct;10(5):377-9

Hepatitis B status of Hmong patients. Gjerdingen DK, et al. **J Am Board Fam Pract** 1997 Sep-Oct;10(5):322-8

Hepatitis B vaccination and infection among U.S. dentists, 1983-1992 [published erratum appears in J Am Dent Assoc 1996 Oct;127(10):1469-1470] Cleveland JL, et al. **J Am Dent Assoc** 1996 Sep;127(9):1385-90

Hepatitis B immunization policy for India [letter] John TJ. **J Assoc Physicians India** 1996 Jul;44(7):509-10

Targeted hepatitis B vaccination--a cost effective immunisation strategy for the UK? Williams JR, et al.

J Epidemiol Community Health 1996 Dec;50(6):667–73
HLA–DRB1*1301 and *1302 protect against chronic hepatitis B. Höhler T, et al. **J Hepatol** 1997 Mar;26(3):503–7
Establishment of an in–use testing method for evaluating disinfection of surgical instruments using the duck hepatitis B model. Deva AK, et al. **J Hosp Infect** 1996 Jun; 33(2):119–30
MF59 adjuvant enhances the antibody response to recombinant hepatitis B surface antigen vaccine in primates. Traquina P, et al. **J Infect Dis** 1996 Dec;174(6):1168–75
Protection provided by hepatitis B vaccine in a Yupik Eskimo population––results of a 10–year study. Wainwright RB, et al. **J Infect Dis** 1997 Mar;175(3):674–7
Response to hepatitis B vaccination in a mental handicap hospital [letter] Scull D, et al. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):485–6
Inadequate hepatitis B vaccination of adolescents and adults at an urban community health center. Sharfstein J, et al. **J Natl Med Assoc** 1997 Feb;89(2):86–92
Seventh graders must have hepatitis B vaccine for school [news] **J Okla State Med Assoc** 1997 Jul–Aug;90(6):258
Hepatitis B alert! [news] **J Okla State Med Assoc** 1996 Aug; 89(8):297–9
A simplified schedule to integrate the hepatitis B vaccine into an expanded program of immunization in endemic countries. Lee CY, et al. **J Pediatr** 1997 Jun;130(6):981–6
Familial failure of hepatitis B immunization. del Rosario JF, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):307–11
Policy and guidelines for prevention and management of human immunodeficiency virus and hepatitis B virus infection in the nursing education community. American Association of Colleges of Nursing. **J Prof Nurs** 1997 Sep–Oct;13(5):325–8
Hepatitis B, 1997 and the Chinese community––an appraisal of their relationships. Tang KY. **J Public Health Med** 1997 Jun;19(2):200–2
Hepatitis and hepatitis immunisation. Feely M. **J R Soc Health** 1997 Feb;117(1):41–6 (42 ref.)
Arthritis, hypercalcemia, and lytic bone lesions after hepatitis B vaccination. Cathebras P, et al. **J Rheumatol** 1996 Mar; 23(3):558–60
A school–based hepatitis B immunization program for British Columbia, Canada. Munroe V, et al. **J Sch Health** 1996 Aug;66(6):229–32
Guidelines regarding HIV and other bloodborne pathogens in vascular/interventional radiology. SCVIR Technology Assessment Committee. Hansen ME, et al. **J Vasc Interv Radiol** 1997 Jul–Aug;8(4):667–76
The effect of granulocyte–macrophage colony–stimulating factor (GM–CSF) on hepatitis B vaccination in haemodialysis patients. Hess G, et al. **J Viral Hepat** 1996 May;3(3):149–53
Improvement of hepatitis B virus DNA vaccines by plasmids coexpressing hepatitis B surface antigen and interleukin–2. Chow YH, et al. **J Virol** 1997 Jan;71(1):169–78
Characterization of T–cell response to woodchuck hepatitis virus core protein and protection of woodchucks from infection by immunization with peptides containing a T–cell epitope. Menne S, et al. **J Virol** 1997 Jan;71(1):65–74
Success of mass vaccination of infants against hepatitis B [letter; comment] Durand AM, et al. **JAMA** 1996 Dec 11; 276(22):1802–3. Comment on: JAMA 1996 Sep 18;276(11):906–8.
Perspectives on hepatitis B vaccination [letter; comment] Waisbren BA Sr. **JAMA** 1997 Apr 9;277(14):1124–5. Comment on: JAMA 1996 Dec 11;276(22):1796–8.
Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [see comments] Rehman K, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):152–4. Comment in: JPMA J Pak Med Assoc 1997 Mar;47(3):100–1.
Hepatitis B immunisation in Singapore [letter] Goh KT. **Lancet** 1996 Nov 16;348(9038):1385–6
Lamivudine prophylaxis against reinfection in liver transplantation for hepatitis B cirrhosis. Grellier L, et al. **Lancet** 1996 Nov 2;348(9036):1212–5
Malaria vaccine [letter; comment] Ruff T. **Lancet** 1996 Nov 16;348(9038):1378–9. Comment on: Lancet 1996 Sep 14;348(9029):701–7.
Hepatitis B in Australia: on course for universal vaccination [editorial; comment] Goldwater PN. **Med J Aust** 1996 Sep 16;165(6):300–1. Comment on: Med J Aust 1996 Sep 16;165(6):322–6.
Universal precautions: attitudes of Australian and New Zealand anaesthetists [see comments] Richards MJ, et al. **Med J Aust** 1997 Feb 3;166(3):138–40. Comment in: Med J Aust 1997 Feb 3;166(3):141. Comment in: Med J Aust 1997 Feb 3;166(3):142.
Evaluation of the neonatal hepatitis B vaccination program in infants born to Chinese mothers [letter] Su J, et al. **Med J Aust** 1997 Apr 21;166(8):446–7
High rate of seroconversion following administration of a single supplementary dose of recombinant hepatitis B vaccine in Iranian healthy nonresponder neonates. Shokri F, et al. **Med Microbiol Immunol (Berl)** 1997 Mar; 185(4):231–5
Prevention of perinatal hepatitis B through enhanced case management––Connecticut, 1994–95, and the United States, 1994. **MMWR Morb Mortal Wkly Rep** 1996 Jul 12; 45(27):584–7
Program to prevent perinatal hepatitis B virus transmission in a health–maintenance organization––Northern California, 1990–1995. **MMWR Morb Mortal Wkly Rep** 1997 May 2;46(17):378–80
Universal hepatitis B vaccination in Taiwan and the incidence of hepatocellular carcinoma in children. Taiwan Childhood Hepatoma Study Group [see comments] Chang MH, et al. **N Engl J Med** 1997 Jun 26;336(26):1855–9. Comment in: N Engl J Med 1997 Jun 26;336(26):1906–7.
Prevention of primary liver cancer by immunization [editorial; comment] Zuckerman AJ. **N Engl J Med** 1997 Jun 26;336(26):1906–7. Comment on: N Engl J Med 1997 Jun 26;336(26):1855–9.
Prevention of hepatitis B in healthcare workers (HCW) [letter] Chew T. **N Z Med J** 1997 Jul 11;110(1047):258
Response to the hepatitis B virus vaccine in haemodialysis patients: influence of malnutrition and its importance as a risk factor for morbidity and mortality [see comments] Fernández E, et al. **Nephrol Dial Transplant** 1996 Aug; 11(8):1559–63. Comment in: Nephrol Dial Transplant 1997 Mar;12(3):623–4.
Effects of recombinant interleukin–2 and revaccination for hepatitis B in previously vaccinated, non–responder, chronic uraemic patients. Collaborative Group of Girona. Mauri JM, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):729–32
Hepatitis B vaccination [letter; comment] Paynter HE, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):623–4. Comment on: Nephrol Dial Transplant 1996 Aug;11(8):1559–63.
Immunogenicity and efficacy of hepatitis B vaccination in Indian chronic renal failure patients on hemodialysis and after renal transplantation [letter] Krishnamurthy G, et al. **Nephron** 1996;74(2):424–5
Hepatitis B: recommendations for children/adolescents [see comments] **Nurse Pract** 1996 Sep;21(9):108, 111–3 (12 ref.) . Comment in: Nurse Pract 1996 Dec;21(12 Pt 1):13.
Attitudes and educational practices of obstetric providers regarding infant hepatitis B vaccination. Zola J, et al. **Obstet Gynecol** 1997 Jan;89(1):61–4
Implementation of Department of Health guidelines for hepatitis B vaccination: a regional audit of NHS occupational health policies and procedures. Harrison J. **Occup Med (Oxf)** 1997 Jan;47(1):5–10
Hepatitis B vaccination in children with thalassemia, hemophilia and cancer [letter] Kavakli K, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1140–1
The need for more aggressive follow–up of children born to hepatitis B surface antigen–positive mothers: lessons from the Louisiana Perinatal Hepatitis B Immunization Program. Kohn MA, et al. **Pediatr Infect Dis J** 1996 Jun; 15(6):535–40
Hepatitis B vaccination and hepatocellular carcinoma in Taiwan. Lee CL, et al. **Pediatrics** 1997 Mar;99(3):351–3
Hepatitis B virus, the vaccine, and the control of primary cancer of the liver. Blumberg BS. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7121–5 (4 ref.)
Use of novel beta–L(–)–nucleoside analogues for treatment and prevention of chronic hepatitis B virus infection and hepatocellular carcinoma. Bridges EG, et al. **Prog Liver Dis** 1995;13:231–45 (70 ref.)
Vaccination against hepatitis B virus in children and adolescents in a pediatric hospital. Catania G, et al. **Recenti Prog Med** 1996 Jun;87(6):271–4
Complete success of intradermal vaccination against hepatitis B in advanced chronic renal failure and hemodialysis patients. Vlassopoulos D, et al. **Ren Fail** 1997 May; 19(3):455–60
The current state of the prevention of HBV infection, the carrier state and hepatocellular carcinoma. Blumberg BS. **Res Virol** 1997 Mar–Apr;148(2):91–4
Private immunisation––the agony is worse than the injection [letter] Rainier–Pope CR. **S Afr Med J** 1997 Jul;87(7):914
Safety and immunogenicity of a combined hepatitis A and hepatitis B vaccine in young healthy adults. Leroux–Roels G, et al. **Scand J Gastroenterol** 1996 Oct;31(10):1027–31
The transmission dynamics and control of hepatitis B virus in The Gambia. Edmunds WJ, et al. **Stat Med** 1996 Oct 30;15(20):2215–33
Vaccination against hepatitis B virus in highly endemic areas: waning vaccine–induced immunity and the need for booster doses. Edmunds WJ, et al. **Trans R Soc Trop Med Hyg** 1996 Jul–Aug;90(4):436–40
Beneficial effect of lamivudine pre– and post–liver transplantation for hepatitis B infection. Ben–Ari Z, et al. **Transplant Proc** 1997 Sep;29(6):2687–8
Absence of initial viral replication and long–term high dose immunoglobulin administration improve results of hepatitis B virus recurrence prophylaxis after liver transplantation. Gugenheim J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):517–8
Role of testing for antibody to hepatitis B core antigen to prevent transmission of hepatitis B virus in organ and tissue transplantation. Kroes AC. **Transplant Proc** 1996 Oct; 28(5):2937–8 (12 ref.)
High–titered anti–HBs fresh frozen plasma for immunoprophylaxis against hepatitis B virus recurrence after liver transplantation. Mentha G, et al. **Transplant Proc** 1997 Aug;29(5):2369–73
Detection of recurrent hepatitis B after OLT in patients treated with HBIG prophylaxis using graft–biopsy staining, anti–HBs titers and hepatitis B serology. Nymann T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):507–8
Intravenous or intramuscular anti–HBs immunoglobulin for the prevention of hepatitis B reinfection after orthotopic liver transplantation. Burbach GJ, et al. **Transplantation** 1997 Feb 15;63(3):478–80
Pretransplant famciclovir as prophylaxis for hepatitis B virus recurrence after liver transplantation. Singh N, et al. **Transplantation** 1997 May 27;63(10):1415–9
Routine prenatal screening of Indian women for HBsAg: benefits derived versus cost. Sriprakash I, et al. **Trop Doct** 1997 Jul;27(3):176–7
Prophylaxis of hepatitis B virus infection following a needle stick exposure. Gupta P, et al. **Trop Gastroenterol** 1997 Jan–Mar;18(1):12–4
Hepatitis B vaccination in the expanded programme of immunization. Mittal SK, et al. **Trop Gastroenterol** 1996 Jul–Sep;17(3):188–90
Integration of hepatitis B vaccination into the expanded programme on immunization in Chonburi and Chiangmai provinces, Thailand. Chunsuttiwat S, et al. **Vaccine** 1997 Apr–May;15(6–7):769–74
Persistence of anti–HBs in children vaccinated against viral hepatitis B in the first year of life: follow–up at 5 and 10 years. Da Villa G, et al. **Vaccine** 1996 Nov;14(16):1503–5
Randomized, comparative trial of 20 micrograms vs 40 micrograms Engerix B vaccine in hepatitis B vaccine non–responders. Goldwater PN. **Vaccine** 1997 Mar; 15(4):353–6
Low–dose intramuscular revaccination against hepatitis B. Ramon JM, et al. **Vaccine** 1996 Dec;14(17–18):1647–50
Safety and immunogenicity of a novel mammalian cell–derived recombinant hepatitis B vaccine containing Pre–S1 and Pre–S2 antigens in children. Raz R, et al. **Vaccine** 1996 Feb;14(3):207–11
Vaccination campaign against hepatitis B for 12–year–old subjects in Italy. Stroffolini T, et al. **Vaccine** 1997 Apr; 15(5):583–5
The Viral Hepatitis Prevention Board and earlier efforts at hepatitis B control [letter] Wilde H. **Vaccine** 1996 Jun; 14(8):837–8
The immunization status and level of knowledge about hepatitis B virus infection among Nigerian surgeons. Adebamowo CA, et al. **West Afr J Med** 1997 May–Jun; 16(2):93–6
[Seven–year follow–up in pupils immunized with hepatitis B vaccine and its revaccination] Li X, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):151–3 (Eng. Abstr.) **(Chi)**
[Prevention of hepatitis B] Jepsen JR, et al. **Ugeskr Laeger** 1997 Jun 16;159(25):3970–2 **(Dan)**
[Health Council report 'Protection against hepatitis B': an opportunity for effective prevention through cooperation] Schalm SW. **Ned Tijdschr Geneeskd** 1997 Feb 15; 141(7):315–7 (Eng. Abstr.) **(Dut)**
[Vaccination against hepatitis B. Many more advantages than disadvantages (editorial)] Erlinger S. **Presse Med** 1997 Feb 1;26(2):60–1 (Eng. Abstr.) **(Fre)**
[Vaccinations against hepatitis A and B in France in 1996 (letter)] Morlat P, et al. **Rev Med Interne** 1996;17(10):855 **(Fre)**
[Combined prevention of hepatitis A and B] **Fortschr Med** 1997 May 10;115(13):18 **(Ger)**
[Confusing games of public insurance with hepatitis B vaccinations (interview by Dr. rer. nat. Anita Schweiger)] Eichhorn R. **Fortschr Med** 1997 Apr 10;115(10):41 **(Ger)**
[Hepatitis B vaccination. Neglected vaccination is not ethically defensible anymore!] Eisenburg J. **Fortschr Med** 1997 Apr 10;115(10):25 **(Ger)**
[Because of its complications prevention is vital. Hepatitis B vaccination is available even for infants (interview by Dr. Rolf Rolf–Günther Sommer] Hallauer JF. **Fortschr Med** 1997 Mar 20;115(8):43–4 **(Ger)**
[Hepatitis B vaccination of children and adolescents] Jilg W. **Fortschr Med** 1997 Apr 10;115(10):26, 29–32, 33 (Eng. Abstr.) **(Ger)**
[Hepatitis B vaccination––an interdisciplinary responsibility (news)] Leinmüller R. **Fortschr Med** 1997 Feb 28; 115(6):16–7 **(Ger)**
[When are which vaccinations indicated? Basic immunization––polio–diphtheria–hepatitis B] Maass G. **Fortschr Med** 1996 Nov 20;114(32):17–20 **(Ger)**
[Preventive vaccination of adolescents: is consent by parents always necessary?] Nassauer KA. **Fortschr Med** 1997 Apr 10;115(10):34, 37–8 **(Ger)**
[Non– and low–response after preventive hepatitis B vaccination] Hasselhorn HM, et al. **Gesundheitswesen** 1997 May;59(5):321–8 (Eng. Abstr.) **(Ger)**
[Child and adolescent hepatitis B vaccination––responsibilities of the public health service] Nassauer KA. **Gesundheitswesen** 1996 Nov;58(11):616–7 (Eng. Abstr.) **(Ger)**
[Preventive vaccination for viral hepatitis] Jilg W. **Z Gastroenterol** 1997 Jul;35(7):585–90 (18 ref.) (Eng. Abstr.) **(Ger)**
[Preventive lamivudine against reinfection by hepatitis B after liver transplantation] Niederau C. **Z Gastroenterol** 1997 May;35(5):359–61 **(Ger)**
[Vaccination of medical students against hepatitis B (letter)] Aavitsland P, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10; 117(7):1004 **(Nor)**
[Evaluation of vaccine potency against viral hepatitis B performed with HB–vax II vaccine in a group with an increased risk for hepatitis B] Leśnik J, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):249–51 (Eng. Abstr.)

(Pol)

[Vaccination and intensified sanitary regime for prevention of viral hepatitis type B among medical personnel at the Center for Health of the Child] Zychowicz C, et al. **Przegl Epidemiol** 1996;50(3):295–8 (Eng. Abstr.) (Pol)

[Russian recombinant vaccine against hepatitis B (results of controlled trials)] Pavlova LI, et al. **Vopr Virusol** 1996 Jul–Aug;41(4):170–2 (Eng. Abstr.) (Rus)

[The prospects for using the genetically engineered surface antigen of the hepatitis B virus (HBsAg) expressed by recombinant poxvirus strains as the basis for vaccines against hepatitis B] Zheleznova NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct;(5):49–53 (Eng. Abstr.) (Rus)

[Prevalence of antibodies against hepatitis A, B, C and E viruses in the rural child population in Northern Extremadura] Montes Martínez I, et al. **An Esp Pediatr** 1996 Aug;45(2):133–6 (Eng. Abstr.) (Spa)

[Hepatitis B prevention and risk of HIV infection in children injured by discarded needles and/or syringes] Aragón Peña AJ, et al. **Aten Primaria** 1996 Feb 15;17(2):138–40 (Eng. Abstr.) (Spa)

[Vaccination against hepatitis B: current strategies and proposals for the future] Simó Miñana J, et al. **Aten Primaria** 1996 Feb 15;17(2):147–61 (151 ref.) (Spa)

[Can the recurrence of hepatitis B after liver transplantation be prevented? (editorial)] Casafont F, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):521–3 (Spa)

[Impact of a hepatitis B vaccination program in a population of hospital personnel (published erratum appears in Gastroenterol Hepatol 1996 May;19(5):283)] López Clemente MV, et al. **Gastroenterol Hepatol** 1996 Mar; 19(3):133–9 (Eng. Abstr.) (Spa)

[Measuring the effectiveness of hepatitis B vaccination (letter; comment)] Peiró S, et al. **Med Clin (Barc)** 1996 Jul 6; 107(6):238–9. Comment on: Med Clin (Barc) 1995 Feb 4;104(4):130–6. (Spa)

[Prevention of Hepatitis A and B] Sjogren MH. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S30–3 (Spa)

[Advances in the campaign against hepatitis b] **Rev Panam Salud Publica** 1997 Apr;1(4):333–4 (Eng. Abstr.) (Spa)

PSYCHOLOGY

Knowledge and attitude assessment of Quebec daycare workers and parents regarding HIV/AIDS and hepatitis B. Renaud A, et al. **Can J Public Health** 1997 Jan–Feb; 88(1):23–6

Stress in parents whose children are hepatitis B virus (HBV) carriers: a comparison of three groups in Guangzhou, China. Lai AC, et al. **Child Care Health Dev** 1996 Nov; 22(6):381–96

REHABILITATION

[Decimeter-wave physiotherapy in viral hepatitis] Kents VV, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):140–4 (Eng. Abstr.) (Rus)

[The action of an ultrahigh-frequency electromagnetic field (460 MHz) in patients with a history of viral hepatitis in the early convalescence period] Filimonov RM, et al. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):18–9 (Eng. Abstr.) (Rus)

SURGERY

Liver transplantation and hepatitis B [editorial] Poterucha JJ, et al. **Ann Intern Med** 1997 May 15;126(10):805–7

Liver transplantation in virus-induced chronic liver disease. Colantoni A, et al. **Baillieres Clin Gastroenterol** 1996 Jul; 10(2):375–88 (65 ref.)

Evaluation of liver transplantation for high-risk indications. Chung SW, et al. **Br J Surg** 1997 Feb;84(2):189–95

Hepatitis B infection and liver transplantation. Yoshida EM. **Can J Gastroenterol** 1997 Jul–Aug;11(5):462–8 (60 ref.)

Quality of life of hepatitis B and C patients after liver transplantation. Dickson RC, et al. **Clin Transplant** 1997 Aug;11(4):282–5

Liver transplantation in Asian patients with chronic hepatitis B. Ho BM, et al. **Hepatology** 1997 Jan;25(1):223–5

Mutations in the hepatitis B virus precore/core gene and core promoter in patients with severe recurrent disease following liver transplantation. McMillan JS, et al. **Hepatology** 1996 Dec;24(6):1371–8

Fulminant hepatitis B virus: recurrence after liver transplantation in two patients also infected with hepatitis delta virus. Marsman WA, et al. **Hepatology** 1997 Feb; 25(2):434–8

Review: hepatitis B and liver transplantation. Angus PW. **J Gastroenterol Hepatol** 1997 Mar;12(3):217–23 (59 ref.)

Hepatitis B virus sequence changes evolving in liver transplant recipients with fulminant hepatitis. Sterneck M, et al. **J Hepatol** 1997 Apr;26(4):754–64

Liver transplantation for chronic viral hepatitis. Rakela J. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S54–5

Absence of initial viral replication and long-term high dose immunoglobulin administration improve results of hepatitis B virus recurrence prophylaxis after liver transplantation. Gugenheim J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):517–8

Detection of recurrent hepatitis B after OLT in patients treated with HBIG prophylaxis using graft-biopsy staining, anti-HBs titers and hepatitis B serology. Nymann T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):507–8

Impact of immunosuppression and acute rejection on hepatitis B recurrence. Platz KP, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):509–10

[Can the recurrence of hepatitis B after liver transplantation be prevented? (editorial)] Casafont F, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):521–3 (Spa)

[Prolonged administration of hepatitis B hyperimmune gamma globulin in patients with liver transplantation in liver diseases caused by hepatitis B virus] Restrepo JC, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):491–6 (Eng. Abstr.) (Spa)

THERAPY

Interferon-alpha 2b treatment in hepatitis B carriers. Effect on hepatitis B virus DNA levels in children infected with different genotypes. Sangfelt P, et al. **Acta Paediatr** 1997 Feb;86(2):135–7

Use of quantitative assays for hepatitis B e antigen and IgM antibody to hepatitis B core antigen to monitor therapy in chronic hepatitis B. Hayashi PH, et al. **Am J Gastroenterol** 1996 Nov;91(11):2323–8

Core promoter mutations of hepatitis B virus for the response to interferon in e antigen-positive chronic hepatitis B. Kanai K, et al. **Am J Gastroenterol** 1996 Oct;91(10):2150–6

Treatment of hepatitis B virus associated glomerulonephritis with recombinant human alpha interferon. Chung DR, et al. **Am J Nephrol** 1997;17(2):112–7

Interferon alfa in the treatment of chronic viral hepatitis B and C. Woo MH, et al. **Ann Pharmacother** 1997 Mar; 31(3):330–7 (59 ref.)

Natural human interferon alpha given orally has different effects on patients with distinct forms of chronic viral hepatitis B. Georgiades JA, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2–3):187–94

Comparison of the long-term effects of treatment with oral and parenteral interferon alpha in chronic viral hepatitis patients. Zielińska W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):359–66

New treatments for chronic viral hepatitis B and C. Dusheiko GM. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):299–333 (154 ref.)

Management of viral hepatitis: clinical and public health perspectives—a consensus statement. CASL Hepatitis Consensus Group. Canadian Association for Study of the Liver. Sherman M. **Can J Gastroenterol** 1997 Jul–Aug; 11(5):407–16 (58 ref.)

Interferon-alpha therapy for chronic hepatitis B in children: a meta-analysis. Torre D, et al. **Clin Infect Dis** 1996 Jul; 23(1):131–7

Interferon and other therapies for hepatitis B and hepatitis C infections. Rothstein KD, et al. **Clin Lab Med** 1996 Jun; 16(2):465–91 (154 ref.)

Prevention of hepatitis B recurrence with indefinite hepatitis B immune globulin (HBIG) prophylaxis after liver transplantation. Nymann T, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):663–7

Alpha-interferon for chronic active hepatitis B in human immunodeficiency virus-infected patients. Zylberberg H, et al. **Gastroenterol Clin Biol** 1996;20(11):968–71

Patients who do better do better. Koretz RL. **Gastroenterology** 1997 Apr;112(4):1418–20

Intracellular application of hairpin ribozyme genes against hepatitis B virus. Welch PJ, et al. **Gene Ther** 1997 Jul; 4(7):736–43

Long-term low dose interferon alpha-2b in the treatment of chronic hepatitis B in multi-ethnic patients in Hawaii. Ching N, et al. **Hawaii Med J** 1996 Oct;55(10):201–3

Effects of low molecular weight glycoproteins in chronic hepatitis B. Vassilev M, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):882–6

A randomized controlled trial of thymosin-alpha1 versus interferon alfa treatment in patients with hepatitis B e antigen antibody—and hepatitis B virus DNA—positive chronic hepatitis B. Andreone P, et al. **Hepatology** 1996 Oct;24(4):774–7

Autoantibody prevalence in chronic hepatitis B virus infection: effect in interferon alfa. Gregorio GV, et al. **Hepatology** 1996 Sep;24(3):520–3

HBV precore mutants and response to interferon [letter] Lindh M. **Hepatology** 1997 Jun;25(6):1547–8

Serum procollagen type III peptide in chronic hepatitis B. Relationship to disease activity and response to interferon-alpha therapy. Giustina G, et al. **Int J Clin Lab Res** 1996;26(1):33–6

Treatment of chronic hepatitis B (HBeAg-HBV DNA-positive) with lymphoblastoid alpha interferon with or without corticosteroids: short- and long-term follow-up. Zavaglia C, et al. **Ital J Gastroenterol** 1996 Jul–Aug;28(6):324–31

Persistence of hepatic hepatitis B virus after serological clearance of HBsAg with autologous peripheral stem cell transplantation. Lau GK, et al. **J Clin Pathol** 1997 Aug; 50(8):706–8

A randomized, double-blind, controlled trial of natural interferon-beta therapy for e-antigen-negative chronic hepatitis B patients with abnormal transaminase levels. Arase Y, et al. **J Gastroenterol** 1996 Aug;31(4):559–64

Mechanisms of thrombocytopenia induced by interferon therapy for chronic hepatitis B. Sata M, et al. **J Gastroenterol** 1997 Apr;32(2):206–10

Treatment for recurrent viral hepatitis after liver transplantation. Brumage LK, et al. **J Hepatol** 1997 Feb; 26(2):440–5 (19 ref.)

New and forthcoming therapies for viral hepatitis. Carreño V, et al. **J Hepatol** 1996;24(2 Suppl):74–6

Cutaneous necrosis by subcutaneous injection of a-interferon in a patient with chronic type B hepatitis [letter] Kontochristopoulos G, et al. **J Hepatol** 1996 Aug;25(2):271

Relation between treatment efficacy and cumulative dose of alpha interferon in chronic hepatitis B. European Concerted Action on Viral Hepatitis (Eurohep). Krogsgaard K, et al. **J Hepatol** 1996 Dec;25(6):795–802

Prednisolone withdrawal therapy enhances the effect of human lymphoblastoid interferon in chronic hepatitis B. INTERPRED Trial Group. Krogsgaard K, et al. **J Hepatol** 1996 Dec;25(6):803–13

Outcome of liver disease and response to interferon treatment are not influenced by hepatitis B virus core gene variability in children with chronic type B hepatitis. Schepis F, et al. **J Hepatol** 1997 Apr;26(4):765–70

Response of patients with dual hepatitis B virus and C virus infection to interferon therapy. Liaw YF, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):449–52

Activation of liver disease in healthy hepatitis B surface antigen carriers during interferon-alpha treatment. Rodríguez-Iñigo E, et al. **J Med Virol** 1997 Sep;53(1):76–80

Cost-benefit analysis of interferon therapy in children with chronic active hepatitis B. Louis-Jacques O, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):25–32

Hepatitis B virus and liver transplantation: concepts in antiviral prophylaxis. Grellier L, et al. **J Viral Hepat** 1997; 4 Suppl 1:111–6 (48 ref.)

New therapies for chronic hepatitis B. Hoofnagle JH, et al. **J Viral Hepat** 1997;4 Suppl 1:41–50 (71 ref.)

Effect of r-interferon alpha administration on hypothalamus-pituitary-thyroid axis in chronic hepatitis. Falaschi P, et al. **Life Sci** 1997;60(1):43–50

Hepatitis B virus replication and mutation are autoregulated by interactions between surface antigen and HBeAg and the HBV DNA polymerase: a functional model with therapeutic implications. Sallie R. **Med Hypotheses** 1997 Jan;48(1):1–10

The treatment of chronic viral hepatitis. Hoofnagle JH, et al. **N Engl J Med** 1997 Jan 30;336(5):347–56 (106 ref.)

Protection from clinical varicella disease during interferon alpha-2a therapy for chronic active hepatitis B infection. Curtiss D, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):720–2

Pilot interferon-beta trial in children with chronic hepatitis B who had previously not responded to interferon-alpha therapy. Ruiz-Moreno M, et al. **Pediatrics** 1997 Feb; 99(2):222–5

DNA-mediated immunization in a transgenic mouse model of the hepatitis B surface antigen chronic carrier state. Mancini M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12496–501

Prospects for active immunotherapies for hepatitis B virus chronic carriers. Michel ML. **Res Virol** 1997 Mar–Apr; 148(2):95–9

Autoantibodies before, during and after administration of recombinant interferon-alpha for chronic viral hepatitis. Lopes EP, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep–Oct;37(5):455–60 (23 ref.)

Treatment of chronic hepatitis B and C with alpha interferon in a renal transplant patient. Rostaing L, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):485–7

Interferon alfa-2b in renal transplant recipients with viral chronic hepatitis: a pilot study. Monteon FJ, et al. **Transplant Proc** 1996 Dec;28(6):3306–8

Circulating ICAM-1 (sCD54) and LFA-3 (sCD58) in chronic hepatitis B--a longitudinal study in patients treated with interferon-alpha. Knolle PA, et al. **Z Gastroenterol** 1997 Jun;35(6):459–67

[Treatment of chronic viral hepatitis B and C] Stránský J. **Vnitr Lek** 1997 Jan;43(1):41–4 (12 ref.) (Cze)

[Pathogenesis and alpha-2 interferon treatment of chronic hepatitis B] Pirotte J. **Rev Med Liege** 1996 Aug; 51(8):514–21 (38 ref.) (Fre)

[Long-term follow-up of HBeAg-positive patients after interferon-alpha treatment for chronic hepatitis B] Goeser T. **Z Gastroenterol** 1997 Mar;35(3):233–5 (Ger)

[Management of chronic hepatitis B] Telegdy L. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1462–5 (Eng. Abstr.) (Hun)

[Approaches to perfection of Reaferon therapy in hepatitis B] Korochkina OV. **Klin Med (Mosk)** 1996;74(4):22–3 (Rus)

[The successful use of recombinant alfa-2 interferon in HBV-associated glomerulonephritis in a child] Fedorchenko SV, et al. **Ter Arkh** 1996;68(2):69–70 (9 ref.) (Rus)

[The interferon therapy of patients with chronic viral hepatitis: the factors affecting the treatment results] Kokoreva LN, et al. **Ter Arkh** 1996;68(2):10–4 (Eng. Abstr.) (Rus)

[Recombinant alpha2-interferon substances in treating patients with acute hepatitis B with a mild course] Malinovskaia VV, et al. **Vopr Virusol** 1997 Jul–Aug; 42(4):182–5 (Eng. Abstr.) (Rus)

[Immune and microhemodynamic disorders in patients with viral hepatitis and their correction] Frolov VM, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Nov–Dec; (6):44–7 (Eng. Abstr.) (Rus)

[Chronic hepatitis B in Spain: how many patients meet criteria for treatment with interferon? (letter)] Moreira V, et al. **Med Clin (Barc)** 1996 Nov 9;107(16):637–8 **(Spa)**

[Famciclovir plus interferon in the treatment of a patient with chronic hepatitis B and severe liver failure] Piqueras B, et al. **Rev Esp Enferm Dig** 1997 Mar;89(3):217–21 (Eng. Abstr.) **(Spa)**

TRANSMISSION

Long–term hepatitis B vaccine in infants born to hepatitis B e antigen positive mothers. Poovorawan Y, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F47–51

Infection of pregnant women with hepatitis B and C viruses and risks for vertical transmission. Alvarez–Muñoz MT, et al. **Arch Med Res** 1997 Autumn;28(3):415–9

Fifth of e antigen negative carriers of hepatitis B virus should not perform exposure prone procedures [letter; comment] Boxall EH, et al. **BMJ** 1997 Jan 11;314(7074):144. Comment on: BMJ 1996 Sep 7;313(7057):576. Comment on: BMJ 1996 Sep 28;313(7060):771.

Surgeon had mutant form of hepatitis B [news] [see comments] Halle M. **BMJ** 1996 Sep 28;313(7060):771. Comment in: BMJ 1997 Jan 11;314(7074):144.

History of posttransfusion hepatitis. Tobler LH, et al. **Clin Chem** 1997 Aug;43(8 Pt 2):1487–93 (47 ref.)

Lessons from two linked clusters of acute hepatitis B in cardiothoracic surgery patients [see comments] Heptonstall J. **Commun Dis Rep CDR Rev** 1996 Aug 16;6(9):R119–25 . Comment in: Commun Dis Rep CDR Rev 1996 Nov 8;6(12):R178.

Response to the discovery of two practising surgeons infected with hepatitis B. Mukerjee AK, et al. **Commun Dis Rep CDR Rev** 1996 Aug 16;6(9):R126–8

Possible transmission of hepatitis B virus from a health care worker to a patient. **Commun Dis Rep CDR Wkly** 1996 Aug 16;6(33):283, 286

Clinical evidence for hepatitis B transmission resulting from corneal transplantation [see comments] Hoft RH, et al. **Cornea** 1997 Mar;16(2):132–7. Comment in: Cornea 1997 Mar;16(2):123–4.

Grafting and the risk of hepatitis transmission: is there reason to be cautious? Are we cautious enough? [editorial; comment] Sugar J, et al. **Cornea** 1997 Mar;16(2):123–4. Comment on: Cornea 1997 Mar;16(2):132–7. Comment on: Cornea 1997 Mar;16(2):138–45. Comment on: Cornea 1997 Mar;16(2):146–50.

Transmission of hepatitis B infection during home blood glucose monitoring [letter] Farkas K, et al. **Diabet Med** 1997 Mar;14(3):263

Utility of an anonymous questionnaire for the identification of a primary transmission route and possible secondary transmission in adults with acute hepatitis B virus infection. Struve J, et al. **Eur J Epidemiol** 1996 Jun;12(3):319–22

Transmission of a homogenous hepatitis B virus population of A1896–containing strains leading to mild resolving acute hepatitis and seroconversion to hepatitis B e antigen antibodies in an adult. Mphahlele MJ, et al. **Hepatology** 1997 Sep;26(3):743–6

A hepatitis B virus mutant with a new hepatocyte nuclear factor 1 binding site emerging in transplant–transmitted fulminant hepatitis B. Pult I, et al. **Hepatology** 1997 Jun; 25(6):1507–15

Bloodborne pathogen transmission in health care workers. Risks and prevention strategies. Cardo DM, et al. **Infect Dis Clin North Am** 1997 Jun;11(2):331–46 (90 ref.)

A case of acute hepatitis B occurring four months after multiple rape. Crowe C, et al. **Int J STD AIDS** 1996 Mar–Apr;7(2):133–4

The role of transplacental hepatitis B core antibody in the mother–to–infant transmission of hepatitis B virus. Chang MH, et al. **J Hepatol** 1996 Jun;24(6):674–9

Post–transfusion hepatitis type B following multiple transfusions of HBsAg–negative blood. Saraswat S, et al. **J Hepatol** 1996 Nov;25(5):639–43

Patient to patient hepatitis B transmission during heart biopsy procedures. A report of the European Working Party on Viral Hepatitis in Heart Transplant Recipients [letter] de Man RA, et al. **J Hosp Infect** 1996 Sep;34(1):71–2

Serial changes in titers of antibody to hepatitis B surface antigen after immunization of infants born to mothers with hepatitis B e antigen. Fujisawa T, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):270–4

Hepatitis B virus infection in pregnant women and its transmission to infants. Sharma R, et al. **J Trop Pediatr** 1996 Dec;42(6):352–4

Exposure to hepatitis B and C of tattooists in Victoria in 1984. Thompson SC, et al. **J Viral Hepat** 1997 Mar; 4(2):135–8

From the Centers for Disease Control and Prevention. Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices—Ohio and New York City, 1996. **JAMA** 1997 Apr 9;277(14):1106–7

Prevalence of hepatitis B infection in beta thalassaemia major patients [letter] Mujeeb SA, et al. **JPMA J Pak Med Assoc** 1996 Apr;46(4):93

Hepatitis B and health–care workers [see comments] Eddleston AL. **Lancet** 1997 May 10;349(9062):1339–40. Comment in: Lancet 1997 Jul 19;350(9072):218; discussion 218–9. Comment in: Lancet 1997 Jul 19;350(9072):219.

Hepatitis B and health care workers [letter; comment] Noone PA, et al. **Lancet** 1997 Jul 19;350(9072):219. Comment on: Lancet 1997 May 10;349(9062):1339–40.

Hepatitis B and health–care workers [letter; comment] Poole CJ. **Lancet** 1997 Jul 19;350(9072):218; discussion 218–9. Comment on: Lancet 1997 May 10;349(9062):1339–40.

Illegal drugs policy, AIDS and hepatitis: from prohibition to harm reduction. Oscapella E. **Med Law** 1996;15(3):391–8

Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices—Ohio and New York City, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Mar 14;46(10):217–21

Transmission of hepatitis B to patients from four infected surgeons without hepatitis B e antigen. The Incident Investigation Teams and others. **N Engl J Med** 1997 Jan 16;336(3):178–84

Risks associated with occupational glass injury in bar staff with special consideration of hepatitis B infection. McLean W, et al. **Occup Med (Oxf)** 1997 Apr;47(3):147–50

The need for more aggressive follow–up of children born to hepatitis B surface antigen–positive mothers: lessons from the Louisiana Perinatal Hepatitis B Immunization Program. Kohn MA, et al. **Pediatr Infect Dis J** 1996 Jun; 15(6):535–40

Sexual transmission of hepatitis B in Mwanza, Tanzania. Jacobs B, et al. **Sex Transm Dis** 1997 Mar;24(3):121–6

The transmission dynamics and control of hepatitis B virus in The Gambia. Edmunds WJ, et al. **Stat Med** 1996 Oct 30;15(20):2215–33

Donor levels of serum alanine aminotransferase activity and antibody to hepatitis B core antigen associated with recipient hepatitis C and non–B, non–C outcomes [published erratum appears in Transfusion 1997 Jan;37(1):109] Mosley JW, et al. **Transfusion** 1996 Sep; 36(9):776–81

Hepatitis B—potential of perinatal transmission in India. Mittal SK, et al. **Trop Gastroenterol** 1996 Jul–Sep; 17(3):190–2

A clinical, epidemiological and laboratory study on avoiding the risk of transmitting viral hepatitis during vaccinations with the Dermojet protected by an anticontaminant disposable device. Dimache G, et al. **Vaccine** 1997 Jun; 15(9):1010–3

Does anti–HBc reactivity reflect 'lifestyle' risk in north London blood donors? Moore MC, et al. **Vox Sang** 1997; 72(2):79–84

Reducing the occupational risk of infections for the surgeon: multicentric national survey on more than 15,000 surgical procedures. Pietrabissa A, et al. **World J Surg** 1997 Jul–Aug;21(6):573–8

[Attitudes and practices of drug users confronted with the risks of contamination by human immunodeficiency virus (HIV) and hepatitis B and C viruses] Ingold FR, et al. **Bull Acad Natl Med** 1997 Mar 18;181(3):555–67; discussion 567–8 (Eng. Abstr.) **(Fre)**

[Does breast feeding compromise the efficacy of sero–vaccination of infants borne to mothers who are chronic carriers of hepatitis B antigens Soulié JC, et al. **Contracept Fertil Sex** 1997 May;25(5):I–V (39 ref.) **(Fre)**

[Does breast feeding increase the risk of transmission of hepatitis B virus chronic carrier state?] Soulié JC, et al. **Gastroenterol Clin Biol** 1997;21(3):197–9 (37 ref.) **(Fre)**

[Expanded serologic infection testing of autologous blood donors: a report of experiences] Zimmermann R, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:196–200 (Eng. Abstr.) **(Ger)**

[Hepatitis B prevention at a school for mentally handicapped patients] Rohling I. **Gesundheitswesen** 1996 Aug–Sep; 58(8–9):454–8 (Eng. Abstr.) **(Ger)**

[Chronic transfusion hepatitis—an underestimated disease] Henschel M, et al. **Med Klin** 1996 Jul 15;91(7):438–41 (Eng. Abstr.) **(Ger)**

[Risk to patients by virus–infected physicians? (editorial)] Hofmann H. **Wien Klin Wochenschr** 1996;108(17):527–29 **(Ger)**

[Transmission of viral hepatitis from the physician to the patient: an exceptional circumstance (editorial)] Bruguera M. **Med Clin (Barc)** 1997 Apr 12;108(14):537–8 **(Spa)**

URINE

Plasma antioxidant vitamins, chronic hepatitis B virus infection and urinary aflatoxin B1–DNA adducts in healthy males. Yu MW, et al. **Carcinogenesis** 1997 Jun;18(6):1189–94

[The effect of the acetylation phenotype on the course severity and outcome of acute viral hepatitis B] Usmanova LP, et al. **Ter Arkh** 1996;68(11):19–20 (Eng. Abstr.) **(Rus)**

VETERINARY

Long–term ganciclovir chemotherapy for congenital duck hepatitis B virus infection in vivo: effect on intrahepatic–viral DNA, RNA, and protein expression. Luscombe C, et al. **Hepatology** 1996 Oct;24(4):766–73

Woodchuck hepatitis virus–induced carcinoma as a relevant natural model for therapy of human hepatoma. Gouillat C, et al. **J Hepatol** 1997 Jun;26(6):1324–30

Heterogeneous response for a mammalian hepadnavirus infection to acyclovir: drug–arrested intermediates of minus–strand viral DNA synthesis are enveloped and secreted from infected cells as virion–like particles. Tencza MG, et al. **J Med Virol** 1997 Jan;51(1):6–16

2',3'–dideoxy–3'–fluoroguanosine inhibits duck hepatitis B virus in vivo. Löfgren B, et al. **J Viral Hepat** 1996 Mar; 3(2):61–5

Successful nucleic acid based immunization of newborn chimpanzees against hepatitis B virus. Prince AM, et al. **Vaccine** 1997 Jun;15(8):916–9

VIROLOGY

Detection of hepatitis B virus DNA in hepatitis B surface antigen–negative serum by polymerase chain reaction: evaluation of different primer pairs and conditions. Gomes SA, et al. **Acta Virol** 1996 Jun;40(3):133–8

Trans–activation of cellular genes by hepatitis B virus proteins: a possible mechanism of hepatocarcinogenesis. Caselmann WH. **Adv Virus Res** 1996;47:253–302 (323 ref.)

Low level hepatitis B viremia detected by polymerase chain reaction accompanies the absence of HBe antigenemia and hepatitis in hepatitis B virus carriers. Niitsuma H, et al. **Am J Gastroenterol** 1997 Jan;92(1):119–23

Semiquantitative assessment of pre–core stop–codon mutant and wildtype hepatitis B virus during the course of chronic hepatitis B using a new PCR–based assay. Protzer–Knolle U, et al. **Arch Virol** 1996;141(11):2091–101

Recent advances in the molecular biology of hepatitis B virus. Scaglioni PP, et al. **Baillieres Clin Gastroenterol** 1996 Jul; 10(2):207–25 (96 ref.)

Pathogenesis of chronic liver disease in patients with chronic hepatitis B virus infection without serum HBeAg. Mangia A, et al. **Dig Dis Sci** 1996 Dec;41(12):2447–52

Viral replication in patients with concomitant hepatitis B and C virus infections. Crespo J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):445–51

Prevalence of hepatitis B and C viruses infection in chronic alcoholics with or without liver disease in Ioannina, Greece: low incidence of HCV infection. Dalekos GN, et al. **Eur J Epidemiol** 1996 Feb;12(1):21–5

GB virus C RNA in serum, liver, and peripheral blood mononuclear cells from patients with chronic hepatitis B, C, and D. Madejón A, et al. **Gastroenterology** 1997 Aug; 113(2):573–8

Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI–TOF mass spectrometry. Jurinke C, et al. **Genet Anal** 1996 Sep;13(3):67–71

Surface gene mutants of hepatitis B virus in infants who develop acute or chronic infections despite immunoprophylaxis. Hsu HY, et al. **Hepatology** 1997 Sep; 26(3):786–91

Nucleic acid sequence analysis of the precore region of hepatitis B virus from sera of southern African black adult carriers of the virus. Kramvis A, et al. **Hepatology** 1997 Jan;25(1):235–40

HBV precore mutants and response to interferon [letter] Lindh M. **Hepatology** 1997 Jun;25(6):1547–8

Detection of hepatitis GB virus type C RNA in serum and liver from children with chronic viral hepatitis B and C. López–Alcorocho JM, et al. **Hepatology** 1997 May; 25(5):1258–60

Mutations in the hepatitis B virus precore/core gene and core promoter in patients with severe recurrent disease following liver transplantation. McMillan JS, et al. **Hepatology** 1996 Dec;24(6):1371–8

Detection by ligase chain reaction of precore mutant of hepatitis B virus. Minamitani S, et al. **Hepatology** 1997 Jan; 25(1):216–22

Pre–S2 defective hepatitis B virus infection in patients with fulminant hepatitis. Pollicino T, et al. **Hepatology** 1997 Aug; 26(2):495–9

A hepatitis B virus mutant with a new hepatocyte nuclear factor 1 binding site emerging in transplant–transmitted fulminant hepatitis B. Pult I, et al. **Hepatology** 1997 Jun; 25(6):1507–15

Viral hepatitis in older adults. Marcus EL, et al. **J Am Geriatr Soc** 1997 Jun;45(6):755–63 (108 ref.)

Two core promotor mutations identified in a hepatitis B virus strain associated with fulminant hepatitis result in enhanced viral replication. Baumert TF, et al. **J Clin Invest** 1996 Nov 15;98(10):2268–76

The degrees of hepatocyte nuclear but not cytoplasmic expression of hepatitis B core antigen reflect the level of viral replication in chronic hepatitis B virus infection. Chu CM, et al. **J Clin Microbiol** 1997 Jan;35(1):102–5

Precore mutant of hepatitis B virus prevails in acute and chronic infections in an area in which hepatitis B is endemic. Chu CM, et al. **J Clin Microbiol** 1996 Jul; 34(7):1815–8

Comparison of methods for extraction of nucleic acid from hemolytic serum for PCR amplification of hepatitis B virus DNA sequences. Klein A, et al. **J Clin Microbiol** 1997 Jul; 35(7):1897–9

Increased prevalence of genotype F hepatitis B virus isolates in Buenos Aires, Argentina. Telenta PF, et al. **J Clin Microbiol** 1997 Jul;35(7):1873–5

Naturally occurring core–gene–defective hepatitis B viruses. Akarca US, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1821–6

Comparison of hepatitis B virus core promoter sequences in peripheral blood mononuclear cells and serum from patients with hepatitis B. Laskus T, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):649–53

Emergence and selection of HBV variants in an anti–HBe positive patient persistently infected with quasi–species. Alexopoulou A, et al. **J Hepatol** 1997 Apr;26(4):748–53

Comparison of four methods for quantitative measurement of hepatitis B viral DNA. Butterworth LA, et al. **J Hepatol** 1996 Jun;24(6):686–91

Hepatitis B virus surface mutations associated with infection

after liver transplantation. Hawkins AE, et al. **J Hepatol** 1996 Jan;24(1):8–14

The value of quantitative detection of HBV-DNA amplified by PCR in the study of hepatitis B infection. Jardi R, et al. **J Hepatol** 1996 Jun;24(6):680–5

Could serum HBV DNA level in the early phase of acute hepatitis B predict evolution to chronic HBV carriage? [letter] Roingeard P, et al. **J Hepatol** 1997 Apr;26(4):953–4

Familial clustering of HBV pre-C and pre-S mutants. Santantonio T, et al. **J Hepatol** 1997 Feb;26(2):221–7

Hepatitis B virus sequence changes evolving in liver transplant recipients with fulminant hepatitis. Sterneck M, et al. **J Hepatol** 1997 Apr;26(4):754–64

Hepatitis B virus (HBV)/hepatitis D virus (HDV) coinfection in outbreaks of acute hepatitis in the Peruvian Amazon basin: the roles of HDV genotype III and HBV genotype F. Casey JL, et al. **J Infect Dis** 1996 Nov;174(5):920–6

Detection of hepatitis B surface gene mutation in carrier children with or without immunoprophylaxis at birth. Lee PI, et al. **J Infect Dis** 1997 Aug;176(2):427–30

Genotype F prevails in HBV infected patients of hispanic origin in Central America and may carry the precore stop mutant. Arauz-Ruiz P, et al. **J Med Virol** 1997 Apr; 51(4):305–12

Complete nucleotide sequences of hepatitis B virus genomes associated with epidemic fulminant hepatitis. Asahina Y, et al. **J Med Virol** 1996 Feb;48(2):171–8

Gradual accumulation of mutations in precore core region of HBV in patients with chronic active hepatitis: implications of clustering changes in a small region of the HBV core region. Hur GM, et al. **J Med Virol** 1996 Jan; 48(1):38–46

A clinical evaluation of a new method for HBV DNA quantitation in patients with chronic hepatitis B. Khakoo SI, et al. **J Med Virol** 1996 Oct;50(2):112–6

Pre-core mutants of hepatitis B virus in patients receiving immunosuppressive treatment after orthotopic liver transplantation. Protzer U, et al. **J Med Virol** 1996 Oct; 50(2):135–44

Frequency of hepatitis B virus e-minus mutants varies among patients from different areas of China. Tu H, et al. **J Med Virol** 1997 Feb;51(2):85–9

Analysis of hepatitis B virus genotypes and pre-core region variability during interferon treatment of HBe antigen negative chronic hepatitis B. Zhang X, et al. **J Med Virol** 1996 Jan;48(1):8–16

Familial failure of hepatitis B immunization. del Rosario JF, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):307–11

Targeted delivery of antisense DNA in woodchuck hepatitis virus-infected woodchucks. Bartholomew RM, et al. **J Viral Hepat** 1995;2(6):273–8

Organ and species specificity of hepatitis B virus (HBV) infection: a review of literature with a special reference to preferential attachment of HBV to human hepatocytes. De Meyer S, et al. **J Viral Hepat** 1997 May;4(3):145–53 (93 ref.)

Analysis of hepatitis B virus precore variants in hepatitis B e antibody-positive patients treated with prednisone plus interferon. Lopez-Alcorocho JM, et al. **J Viral Hepat** 1995; 2(6):279–84

The expression of hepatitis B virus polymerase in hepatocytes during chronic HBV infection. McGarvey MJ, et al. **J Viral Hepat** 1996 Mar;3(2):67–73

Preoperative serum levels of wild-type and hepatitis B e antigen-negative hepatitis B virus (HBV) and graft infection after liver transplantation for HBV-related hepatocellular carcinoma. Mazzaferro V, et al. **J Viral Hepat** 1997 Jul;4(4):235–42

The molecular basis of hepatitis B e antigen (HBeAg)-negative infections. Miyakawa Y, et al. **J Viral Hepat** 1997 Jan;4(1):1–8 (64 ref.)

Long-term productive episomal hepatitis B virus replication in primary cultures of adult human hepatocytes infected in vitro. Rumin S, et al. **J Viral Hepat** 1996 Sep;3(5):227–38

Oxidative burst response of neutrophils primed with PreS1 antigen of hepatitis B virus in patients with chronic hepatitis B and convalescents. Sułowska Z, et al. **J Viral Hepat** 1996 Nov;3(6):293–9

Hepatitis B virus HBx protein induces transcription factor AP-1 by activation of extracellular signal-regulated and c-Jun N-terminal mitogen-activated protein kinases. Benn J, et al. **J Virol** 1996 Aug;70(8):4978–85

Type, prevalence, and significance of core promoter/enhancer II mutations in hepatitis B viruses from immunosuppressed patients with severe liver disease. Günther S, et al. **J Virol** 1996 Dec;70(12):8318–31

Paradoxical interactions between human delta hepatitis agent RNA and the cellular protein kinase PKR. Robertson HD, et al. **J Virol** 1996 Aug;70(8):5611–7

Hepatitis B nucleotide sequence analysis: linking an outbreak of acute hepatitis B to contamination of a cryopreservation tank. Hawkins AE, et al. **J Virol Methods** 1996 Jun; 60(1):81–8

Sequence-specific, single-primer amplification and detection of PCR products for identification of hepatitis viruses. Nainan OV, et al. **J Virol Methods** 1996 Sep;61(1-2):127–34

The hepatitis B virus persists for decades after patients' recovery from acute viral hepatitis despite active maintenance of a cytotoxic T-lymphocyte response. Rehermann B, et al. **Nat Med** 1996 Oct;2(10):1104–8

Structure and selection of hepatitis B virus variants during the natural course of infection and interferon therapy. Günther S, et al. **Princess Takamatsu Symp** 1995;25:211–20 (31 ref.)

Polymerase chain reaction to monitor repair of the HBV genome, the first step in viral replication. Maillard P, et al. **Res Virol** 1996 Jan-Feb;147(1):5–16

Naturally occurring hepatitis B virus genomes bearing the hallmarks of retroviral G-->A hypermutation. Günther S, et al. **Virology** 1997 Aug 18;235(1):104–8

Reduced precore transcription and enhanced core-pregenome transcription of hepatitis B virus DNA after replacement of the precore-core promoter with sequences associated with e antigen-seronegative persistent infections. Moriyama K, et al. **Virology** 1996 Dec 15; 226(2):269–80

Both pre-S1 and S domains of hepatitis B virus envelope proteins interact with the core particle. Poisson F, et al. **Virology** 1997 Feb 3;228(1):115–20

[Immunohistochemical double labelling studies on liver tissues superinfected with hepatitis C virus and hepatitis B virus] Lang Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):345–8 (Eng. Abstr.) **(Chi)**

[Hepatitis B virus mutants--clinical significance] Blum HE, et al. **Z Gastroenterol** 1997 May;35(5):347–55 (79 ref.) (Eng. Abstr.) **(Ger)**

[Mutation of hepatitis viruses and the pathophysiology] Komata M, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):583–93 (7 ref.) **(Jpn)**

[Hepatitis B virus reactivation in patients infected with HIV] Ciutică I, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan-Jun;42(1-2):59–63 (Eng. Abstr.) **(Rum)**

[Hepatitis B: clinical course and serology] Lisker Melman M. **Rev Gastroenterol Mex** 1995 Oct-Dec;60(4 Suppl 2):S34–7 **(Spa)**

HEPATITIS B ANTIBODIES

ADMINISTRATION & DOSAGE

Intravenous or intramuscular anti-HBs immunoglobulin for the prevention of hepatitis B reinfection after orthotopic liver transplantation. Burbach GJ, et al. **Transplantation** 1997 Feb 15;63(3):478–80

ADVERSE EFFECTS

Lichen ruber planus following the administration of human anti-hepatitis B virus immunoglobulins [letter] Tessari G, et al. **Acta Derm Venereol** 1996 Mar;76(2):154

ANALYSIS

Use of quantitative assays for hepatitis B e antigen and IgM antibody to hepatitis B core antigen to monitor therapy in chronic hepatitis B. Hayashi PH, et al. **Am J Gastroenterol** 1996 Nov;91(11):2323–8

Antibody level after hepatitis B vaccination in hemodialysis patients: influence of hepatitis C virus infection. Navarro JF, et al. **Am J Nephrol** 1996;16(2):95–7

Immunogenicity of recombinant hepatitis B vaccine among infants of mothers with active schistosomiasis. Bassily S, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):197–9

Hepatitis B and C viruses, human T-cell lymphotropic virus types I and II, and leukemias: a case-control study. The Italian Leukemia Study Group. Gentile G, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):227–30

Should antibody to hepatitis B core antigen be tested in routine screening of donor corneas for transplant? [see comments] Mattern RM, et al. **Cornea** 1997 Mar; 16(2):138–45 (63 ref.). Comment in: Cornea 1997 Mar;16(2):123–4.

Hepatitis B status of Hmong patients. Gjerdingen DK, et al. **J Am Board Fam Pract** 1997 Sep-Oct;10(5):322–8

The role of transplacental hepatitis B core antibody in the mother-to-infant transmission of hepatitis B virus. Chang MH, et al. **J Hepatol** 1996 Jun;24(6):674–9

Determination of anti-HBsAg IgM monoclonal antibodies in cell culture media by perfusion immunoassay. Brackett JM, et al. **J Immunol Methods** 1997 Jan 15;200(1-2):39–46

Protection provided by hepatitis B vaccine in a Yupik Eskimo population--results of a 10-year study. Wainwright RB, et al. **J Infect Dis** 1997 Mar;175(3):674–7

Seroprevalence of hepatitis B and C virus among professional blood donors--a single centre study of 135 donors in Karachi [letter] Ahmed A, et al. **JPMA J Pak Med Assoc** 1995 Nov;45(11):309

The frequencies of hepatitis B virus markers and hepatitis C virus antibody in patients with glomerulonephritis. Paydas S, et al. **Nephron** 1996;74(3):617–9

Serological profiles of hepatitis B carrier patients in Singapore with special reference to the frequency and significance of concurrent presence of HBsAg and anti-HBs. Wang YM, et al. **Singapore Med J** 1996 Apr; 37(2):150–2

A comparison of amino acid sequences of hepatitis B virus S gene in 46 children presenting various clinical features for immunoprophylaxis. Miyake Y, et al. **Tohoku J Exp Med** 1996 Nov;180(3):233–47

Risks of transplanting kidneys from hepatitis B surface antigen-negative, hepatitis B core antibody-positive donors. Satterthwaite R, et al. **Transplantation** 1997 Aug 15;64(3):432–5

Risk of inappropriate exclusion of organ donors by introduction of hepatitis B core antibody testing. Turner DP, et al. **Transplantation** 1997 Mar 15;63(5):775–7

BIOSYNTHESIS

Hepatitis B vaccine booster dose: low-dose recombinant hepatitis B vaccines as a booster dose. Bryan JP, et al. **Am J Infect Control** 1997 Jun;25(3):215–22

Prospective analysis of the factors influencing the antibody response to hepatitis B vaccine in hemodialysis patients. Peces R, et al. **Am J Kidney Dis** 1997 Feb;29(2):239–45

Higher response rate to hepatitis B vaccination observed in chronic hemodialysis patients [letter] Swan AM, et al. **Clin Nephrol** 1997 Mar;47(3):207–8

Identification of an epitope for T-cells correlated with antibody response to hepatitis B surface antigen in vaccinated humans. Min WP, et al. **Hum Immunol** 1996 Apr;46(2):93–9

A comparative trial of standard or high-dose S subunit recombinant hepatitis B vaccine versus a vaccine containing S subunit, pre-S1, and pre-S2 particles for revaccination of healthy adult nonresponders. Bertino JS Jr, et al. **J Infect Dis** 1997 Mar;175(3):678–81

Mutated epitopes of hepatitis B surface antigen fused to the core antigen of the virus induce antibodies that react with the native surface antigen. Shiau AL, et al. **J Med Virol** 1997 Mar;51(3):159–66

Nonresponse to hepatitis B vaccines and the kinetics of anti-HBs production. Zuckerman JN. **J Med Virol** 1996 Dec;50(4):283–8 (62 ref.)

Functional implications of hepatitis B surface antigen (HBsAg) in the T cells of chronic HBV carriers. Nagaraju K, et al. **J Viral Hepat** 1997 Jul;4(4):221–30

Low seroconversion with hepatitis B vaccination in peritoneal dialysis patients. Khan AN, et al. **Perit Dial Int** 1996 Jul-Aug;16(4):370–3

Anti-HBs responses in children vaccinated with different schedules of either plasma-derived or HBV DNA recombinant vaccine. Da Villa G, et al. **Res Virol** 1997 Mar-Apr;148(2):109–14

Immunoresponse to hepatitis B vaccination and adherence campaign among injecting drug users. Lugoboni F, et al. **Vaccine** 1997 Jun;15(9):1014–6

BLOOD

Seroprevalence of hepatitis B virus among school-age children in the Stann Creek District of Belize, Central America. Chamberlin J, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):452–5

Biological parameters influencing the immunological response to plasma derived and recombinant hepatitis B vaccines. Honorati MC, et al. **Ann Ist Super Sanita** 1996; 32(3):369–74

Hepatitis B virus markers among the prostitutes of Dhaka. Sattar H, et al. **Bangladesh Med Res Counc Bull** 1996 Apr; 22(1):8–11

The significance of isolated antibody to hepatitis B core antigen seropositivity in patients infected with human immunodeficiency virus. Davaro RE, et al. **Clin Infect Dis** 1996 Jul;23(1):189–90

Successful immune response to a recombinant hepatitis B vaccine in young patients with insulin-dependent diabetes mellitus. Marseglia GL, et al. **Diabet Med** 1996 Jul; 13(7):630–3

Hepatitis B vaccination in diabetic patients. Randomized trial comparing recombinant vaccines containing and not containing pre-S2 antigen. Douvin C, et al. **Diabetes Care** 1997 Feb;20(2):148–51

Prevalence of hepatitis A, B, and C markers in school children of a rural area of Crete, Greece. Lionis C, et al. **Eur J Epidemiol** 1997 Jun;13(4):417–20

Transmission of a homogenous hepatitis B virus population of A1896-containing strains leading to mild resolving acute hepatitis and seroconversion to hepatitis B e antigen antibodies in an adult. Mphahlele MJ, et al. **Hepatology** 1997 Sep;26(3):743–6

Presence of antibodies to the hepatitis B surface antigen is associated with an excess risk for hepatocellular carcinoma among non-Asians in Los Angeles County, California [published erratum appears in Hepatology 1997 May;25(5):1298] Yu MC, et al. **Hepatology** 1997 Jan; 25(1):226–8

Seroprevalences of hepatitis B and C viruses and Helicobacter pylori infection in a small, isolated population at high risk of gastric and liver cancer. Chen SY, et al. **Int J Cancer** 1997 May 29;71(5):776–9

Evaluation of immunochromatographic assay systems for rapid detection of hepatitis B surface antigen and antibody, Dainascreen HBsAg and Dainascreen Ausab. Sato K, et al. **J Clin Microbiol** 1996 Jun;34(6):1420–2

Quantitative analysis of IgM anti-HBc in chronic hepatitis B patients using a new "gray-zone" for the evaluation of "borderline" values. Colloredo G, et al. **J Hepatol** 1996 Nov;25(5):644–8

Immunogenicity of two doses of yeast recombinant hepatitis B vaccine in healthy older adults. Gellin BG, et al. **J Infect Dis** 1997 Jun;175(6):1494–7

A novel assay for hepatitis B e markers. Boxall EH, et al. **J Med Virol** 1997 Jul;52(3):280–5

Prevalence of antibodies to hepatitis A, C, and E viruses in different ethnic groups in French Guiana. Talarmin A, et al. **J Med Virol** 1997 Aug;52(4):430–5

Recurrent demyelinating transverse myelitis in a high titer

HEPATITIS B ANTIBODIES

HBs-antigen carrier. Matsui M, et al. **J Neurol Sci** 1996 Aug;139(2):235-7

Immune response to hepatitis B virus vaccine in 1-year-old preterm and term infants. Belson A, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):252-5

Serial changes in titers of antibody to hepatitis B surface antigen after immunization of infants born to mothers with hepatitis B e antigen. Fujisawa T, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):270-4

Modulation of immune response to rDNA hepatitis B vaccination by psychological stress. Jabaaij L, et al. **J Psychosom Res** 1996 Aug;41(2):129-37

Quantitative assessment of serum hepatitis B e antigen, IgM hepatitis B core antibody and HBV DNA in monitoring the response to treatment in patients with chronic hepatitis B. Bernard F, et al. **J Viral Hepat** 1997 Jul;4(4):265-72

Efficacy of prolonged interferon-alpha treatment in chronic hepatitis B patients with HBeAb: comparison between 6 and 12 months of therapy. Lopez-Alcorocho JM, et al. **J Viral Hepat** 1997;4 Suppl 1:27-32

Should children with isolated anti-HBs or anti-HBc be immunized against hepatitis B virus? [letter] Duval B, et al. **JAMA** 1997 Oct 1;278(13):1064

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [letter; comment] Abdul Mujeeb S. **JPMA J Pak Med Assoc** 1997 Mar;47(3):100-1. Comment on: JPMA J Pak Med Assoc 1996 Jul;46(7):152-4.

High rate of seroconversion following administration of a single supplementary dose of recombinant hepatitis B vaccine in Iranian healthy nonresponder neonates. Shokri F, et al. **Med Microbiol Immunol (Berl)** 1997 Mar; 185(4):231-5

A recombinant circumsporozoite protein vaccine against malaria [letter; comment] Goldstein ST, et al. **N Engl J Med** 1997 Jun 12;336(24):1760; discussion 1760-1 . Comment on: N Engl J Med 1997 Jan 9;336(2):86-91.

Concomitant high prevalence of hepatitis C virus antibodies and hepatitis B virus markers in a small village of the Amazon Region, Mato Grosso State, Brazil. Souto FJ, et al. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):221-3

Prevalence of hepatitis B and C markers in the south-east of Spain: an unlinked community-based serosurvey of 2,203 adults. Garcia-Fulgueiras A, et al. **Scand J Infect Dis** 1996; 28(1):17-20

The presence of hepatitis B core antibody does not preclude kidney donation: lack of viral DNA in the serum and biopsies of core antibody-positive donors and clinical follow-up [letter] Cirocco R, et al. **Transplantation** 1997 Jun 15;63(11):1702-3

Ten-year follow-up study of neonatal hepatitis B immunization: are booster injections indicated? Resti M, et al. **Vaccine** 1997 Aug-Sep;15(12-13):1338-40

Evaluation of tolerability and antibody response after recombinant human granulocyte-macrophage colony-stimulating factor (rhGM-CSF) and a single dose of recombinant hepatitis B vaccine. Tarr PE, et al. **Vaccine** 1996 Sep;14(13):1199-204

Risk factors and anti-HBc reactivity among first time blood donors. Molijn MH, et al. **Vox Sang** 1997;72(4):207-10

Seroprevalence of hepatitis B virus, hepatitis C virus, and human immunodeficiency virus antibodies in Turkish patients with hereditary coagulation factor deficiencies [letter] Soylu AR, et al. **Vox Sang** 1997;73(1):54

[Non- and low-response after preventive hepatitis B vaccination] Hasselhorn HM, et al. **Gesundheitswesen** 1997 May;59(5):321-8 (Eng. Abstr.) **(Ger)**

[High percentage of isolated anti-HBc-positive persons among prisoners] Neifer S, et al. **Gesundheitswesen** 1997 Jun;59(6):409-12 (Eng. Abstr.) **(Ger)**

[A case of non-B, non-C, juvenile hepatocellular carcinoma with brain metastasis] Sato S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Oct;93(10):758-62 **(Jpn)**

[The risk of seroconversion in surgeons of the hepatitis B, hepatitis C and human immunodeficiency viruses (in a specific surgical population)] Mineiro J, et al. **Acta Med Port** 1997 Jun-Jul;10(6-7):455-61 (Eng. Abstr.) **(Por)**

[Atypical profile of markers of hepatitis B and vaccination] Velosa J. **Acta Med Port** 1996 Jul-Sep;9(7-9):247-51 (Eng. Abstr.) **(Por)**

[Profiles of serological markers of HBV-infection in acute hepatitis B] Nikiforov ND, et al. **Klin Med (Mosk)** 1996; 74(7):16-8 (Eng. Abstr.) **(Rus)**

[Effect of phytotherapy on the prevention and elimination of hepatotoxic responses in patients with pulmonary tuberculosis, carriers of hepatitis B virus markers] Galitskii LA, et al. **Probl Tuberk** 1997;(4):35-8 (Eng. Abstr.) **(Rus)**

[The prevalence of markers for the hepatitis A and B viruses in the population of Gijón between 6 and 25 years old] Suárez A, et al. **Med Clin (Barc)** 1996 Apr 6;106(13):491-4 (Eng. Abstr.) **(Spa)**

GENETICS

Cell display library for gene cloning of variable regions of human antibodies to hepatitis B surface antigen. Higuchi K, et al. **J Immunol Methods** 1997 Mar 28;202(2):193-204

IMMUNOLOGY

Western blot analysis of the reactivity between envelope proteins of hepatitis B viruses from Brazilian carriers and antibodies raised against recombinant hepatitis B vaccines. De Castro L, et al. **Acta Virol** 1996 Nov-Dec;40(5-6):251-8

Epitope mapping of preS2 of the hepatitis B virus surface antigen against a conformation-dependent monoclonal antibody using synthetic peptides. Lee MK, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1077-85

Complete seroconversion after vaccination against hepatitis B virus in hemodialysis patients [letter; comment] Radović MM, et al. **Clin Nephrol** 1997 Mar;47(3):206. Comment on: Clin Nephrol 1994 Feb;41(2):113-6. Comment on: Clin Nephrol 1996 Mar;45(3):180-2.

In vitro neutralization of hepatitis B virus by monoclonal antibodies against the viral surface antigen. Ryu CJ, et al. **J Med Virol** 1997 Jun;52(2):226-33

Relative functional affinity of specific anti-core IgG in different categories of hepatitis B virus infection. Thomas HI. **J Med Virol** 1997 Mar;51(3):189-97

The hepatitis B virus core and e antigens elicit different Th cell subsets: antigen structure can affect Th cell phenotype. Milich DR, et al. **J Virol** 1997 Mar;71(3):2192-201

Characterization of humoral and CD4+ cellular responses after genetic immunization with retroviral vectors expressing different forms of the hepatitis B virus core and e antigens. Sällberg M, et al. **J Virol** 1997 Jul; 71(7):5295-303

Identification of polyclonal serum specificities with phage-display libraries. Germaschewski V, et al. **J Virol Methods** 1996 Apr 26;58(1-2):21-32

Highly specific, cross-reactive sequences recognized by an anti-HBsAg antibody identified from a positional scanning synthetic combinatorial library. Appel JR, et al. **Pept Res** 1996 Jul-Aug;9(4):174-82

Anti-HBe titre in patients infected with wild-type and e-minus variant of hepatitis B virus. Tu H, et al. **Res Virol** 1996 Jan-Feb;147(1):39-43

METABOLISM

Persistence of anti-HBs in children vaccinated against viral hepatitis B in the first year of life: follow-up at 5 and 10 years. Da Villa G, et al. **Vaccine** 1996 Nov;14(16):1503-5

PHARMACOLOGY

Increased in vitro immunosuppressive action of anti-CMV and anti-HBs intravenous immunoglobulins due to higher amounts of interferon-gamma specific neutralizing antibodies. Denys C, et al. **Vox Sang** 1997;72(4):247-50

THERAPEUTIC USE

Prophylaxis in liver transplant recipients using a fixed dosing schedule of hepatitis B immunoglobulin. Terrault NA, et al. **Hepatology** 1996 Dec;24(6):1327-33

HEPATITIS B ANTIGENS

ANALYSIS

Detection of alpha-fetoprotein and hepatitis-B surface antigen in blood spotted on filter paper: use as a screen for hepatocellular carcinoma in Alaska Natives. Parkinson AJ, et al. **Arctic Med Res** 1996 Jul;55(3):123-8

Integrity of p53 in hepatitis B x antigen-positive and -negative hepatocellular carcinomas. Greenblatt MS, et al. **Cancer Res** 1997 Feb 1;57(3):426-32

Pathogenesis of chronic liver disease in patients with chronic hepatitis B virus infection without serum HBeAg. Mangia A, et al. **Dig Dis Sci** 1996 Dec;41(12):2447-52

Hepatitis B vaccine [letter; comment] Karthikeyan G. **Indian Pediatr** 1995 Sep;32(9):1043-5. Comment on: Indian Pediatr 1995 Jun;32(6):715-8.

Further observations on the immune response to recombinant hepatitis B vaccine after administration to aboriginal and Torres Strait Island children. Hanna JN, et al. **J Paediatr Child Health** 1997 Feb;33(1):67-70

A comparison of amino acid sequences of hepatitis B virus S gene in 46 children presenting various clinical features for immunoprophylaxis. Miyake Y, et al. **Tohoku J Exp Med** 1996 Nov;180(3):233-47

[Immunohistochemical double labelling studies on liver tissues superinfected with hepatitis C virus and hepatitis B virus] Lang Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):345-8 (Eng. Abstr.) **(Chi)**

[Prognosis in acute viral hepatitis B in children] Kowalik-Mikołajewska B, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):185-6 (Eng. Abstr.) **(Pol)**

BLOOD

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [letter; comment] Abdul Mujeeb S. **JPMA J Pak Med Assoc** 1997 Mar;47(3):100-1. Comment on: JPMA J Pak Med Assoc 1996 Jul;46(7):152-4.

[Atypical profile of markers of hepatitis B and vaccination] Velosa J. **Acta Med Port** 1996 Jul-Sep;9(7-9):247-51 (Eng. Abstr.) **(Por)**

GENETICS

Mutations of the X region of hepatitis B virus and their clinical implications. Uchida T, et al. **Pathol Int** 1997 Apr; 47(4):183-93 (150 ref.)

The hepatitis B virus X gene induces p53-mediated programmed cell death. Chirillo P, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8162-7

IMMUNOLOGY

Comparison of cytotoxic T lymphocyte responses induced by peptide or DNA immunization: implications on immunogenicity and immunodominance. Vitiello A, et al. **Eur J Immunol** 1997 Mar;27(3):671-8

Reconstruction and expression of chimeric anti-HBx antibody in Escherichia coli. Zhou G, et al. **J Cancer Res Clin Oncol** 1997;123(6):325-30

Long-lasting memory T cell responses following self-limited acute hepatitis B. Penna A, et al. **J Clin Invest** 1996 Sep 1;98(5):1185-94

Long-term expression of the hepatitis B virus core-e- and X-proteins does not cause pathologic changes in transgenic mice. Reifenberg K, et al. **J Hepatol** 1997 Jan;26(1):119-30

Differential target cell sensitivity to CTL-activated death pathways in hepatitis B virus transgenic mice. Nakamoto Y, et al. **J Immunol** 1997 Jun 15;158(12):5692-7

Recurrent demyelinating transverse myelitis in a high titer HBs-antigen carrier. Matsui M, et al. **J Neurol Sci** 1996 Aug;139(2):235-7

ISOLATION & PURIFICATION

[Concentration of hepatitis A and B virus antigens using water-soluble polymers] Leshchuk SI, et al. **Vopr Virusol** 1996 May-Jun;41(3):135-7 (Eng. Abstr.) **(Rus)**

METABOLISM

Aberrant trafficking of hepatitis B virus glycoproteins in cells in which N-glycan processing is inhibited. Lu X, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2380-5

PHYSIOLOGY

Hepatitis B virus X antigen in the pathogenesis of chronic infections and the development of hepatocellular carcinoma. Feitelson MA, et al. **Am J Pathol** 1997 Apr; 150(4):1141-57 (164 ref.)

HEPATITIS B CORE ANTIGENS

Hybrid hepatitis B virus core antigen as a vaccine carrier moiety. II. Expression in avirulent Salmonella spp. for mucosal immunization. Schödel F, et al. **Adv Exp Med Biol** 1996;397:15-21 (18 ref.)

ANALYSIS

Half of hepatocytes with cytoplasmic hepatitis B core antigen are proliferating cells [letter; comment] Sung JL. **Gastroenterology** 1996 Oct;111(4):1164. Comment on: Gastroenterology 1995 Dec;109(6):1926-32.

The degrees of hepatocyte nuclear but not cytoplasmic expression of hepatitis B core antigen reflect the level of viral replication in chronic hepatitis B virus infection. Chu CM, et al. **J Clin Microbiol** 1997 Jan;35(1):102-5

Analysis of hepatitis B virus precore variants in hepatitis B e antibody-positive patients treated with prednisone plus interferon. Lopez-Alcorocho JM, et al. **J Viral Hepat** 1995; 2(6):279-84

[Immunohistochemical study of hepatitis B and D virus antigens (HBsAg, HBcAg, HDAg) in chronic liver diseases] Horváth G, et al. **Orv Hetil** 1996 May 26; 137(21):1133-8 (Eng. Abstr.) **(Hun)**

BIOSYNTHESIS

Enhanced core protein production by hepatitis B virus bearing a mutation in the precore region. Moriyama K. **Arch Virol** 1997;142(6):1263-71

Mosaic hepatitis B virus core particles allow insertion of extended foreign protein segments. Koletzki D, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2049-53

Reduced antigen production by hepatitis B virus harbouring nucleotide deletions in the overlapping X gene and precore-core promoter. Moriyama K. **J Gen Virol** 1997 Jun;78 (Pt 6):1479-86

Simple method for efficient production of hepatitis B virus core antigen in Escherichia coli. Naito M, et al. **Res Virol** 1997 Jul-Aug;148(4):299-305

CHEMISTRY

Folding and assembly of hepatitis B virus core protein: a new model proposal. Bringas R. **J Struct Biol** 1997 Apr; 118(3):189-96

GENETICS

Detection of hepatitis B virus DNA in hepatitis B surface antigen-negative serum by polymerase chain reaction: evaluation of different primer pairs and conditions. Gomes SA, et al. **Acta Virol** 1996 Jun;40(3):133-8

Core promoter mutations of hepatitis B virus for the response to interferon in e antigen-positive chronic hepatitis B. Kanai K, et al. **Am J Gastroenterol** 1996 Oct;91(10):2150-6

Enhanced core protein production by hepatitis B virus bearing a mutation in the precore region. Moriyama K.

Arch Virol 1997;142(6):1263–71

Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI–TOF mass spectrometry. Jurinke C, et al. **Genet Anal** 1996 Sep;13(3):67–71

Spatial structure and insertion capacity of immunodominant region of hepatitis B core antigen. Borisova G, et al. **Intervirology** 1996;39(1–2):16–22 (23 ref.)

Hepatitis B virus core and e antigen: immune recognition and use as a vaccine carrier moiety. Schödel F, et al. **Intervirology** 1996;39(1–2):104–10

Comparison of hepatitis B virus core promoter sequences in peripheral blood mononuclear cells and serum from patients with hepatitis B. Laskus T, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):649–53

High degree of conservation in the hepatitis B virus core gene during the immune tolerant phase in perinatally acquired chronic hepatitis B virus infection. Bozkaya H, et al. **J Hepatol** 1997 Mar;26(3):508–16

Heterogeneity of hepatitis B virus (HBV) core gene in a patient with HBV–associated cirrhosis and serum negativity for anti–HBc. Zoulim F, et al. **J Hepatol** 1996 Feb;24(2):155–60

Hepatitis B virus core protein mutations are concentrated in B cell epitopes in progressive disease and in T helper cell epitopes during clinical remission. Carman WF, et al. **J Infect Dis** 1997 May;175(5):1093–100

Genotype F prevails in HBV infected patients of hispanic origin in Central America and may carry the precore stop mutant. Arauz–Ruiz P, et al. **J Med Virol** 1997 Apr; 51(4):305–12

Gradual accumulation of mutations in precore core region of HBV in patients with chronic active hepatitis: implications of clustering changes in a small region of the HBV core region. Hur GM, et al. **J Med Virol** 1996 Jan; 48(1):38–46

Pre–core mutants of hepatitis B virus in patients receiving immunosuppressive treatment after orthotopic liver transplantation. Protzer U, et al. **J Med Virol** 1996 Oct; 50(2):135–44

Analysis of hepatitis B virus genotypes and pre–core region variability during interferon treatment of HBe antigen negative chronic hepatitis B. Zhang X, et al. **J Med Virol** 1996 Jan;48(1):8–16

Relationship between the serum alanine aminotransferase level at the end of interferon treatment and histologic changes in wild–type and precore mutant hepatitis B virus infections. Bayraktar Y, et al. **J Viral Hepat** 1996 May; 3(3):137–42

Hepatitis B virus precore mutants in HBeAg carriers with chronic hepatitis treated with interferon. Lampertico P, et al. **J Viral Hepat** 1995;2(5):251–6

Analysis of hepatitis B virus precore variants in hepatitis B e antibody–positive patients treated with prednisone plus interferon. Lopez–Alcorocho JM, et al. **J Viral Hepat** 1995; 2(6):279–84

Rare pre–core stop–codon mutant nt. 1897 predominates over wide–spread mutant nt. 1896 in an unusual course of chronic hepatitis B. Protzer U, et al. **J Viral Hepat** 1996 May;3(3):155–62

Type, prevalence, and significance of core promoter/enhancer II mutations in hepatitis B viruses from immunosuppressed patients with severe liver disease. Günther S, et al. **J Virol** 1996 Dec;70(12):8318–31

Posttranscriptional regulation of hepatitis B virus replication by the precore protein. Scaglioni PP, et al. **J Virol** 1997 Jan;71(1):345–53

Distribution of the predominant hepatitis B virus precore variants in hepatitis B e antigen–positive children and their effect on treatment response. Cabrerizo M, et al. **Pediatr Res** 1996 Jun;39(6):980–4

Biologic properties of hepatitis B viral genomes with mutations in the precore promoter and precore open reading frame. Scaglioni PP, et al. **Virology** 1997 Jul 7; 233(2):374–81

[Bacterial synthesis of immunogenic epitopes of foot–and–mouth disease virus fused either to human necrosis factor or to hepatitis B core antigen] Nekrasova OV, et al. **Bioorg Khim** 1997 Feb;23(2):118–26 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Hepatitis B virus core–preS2 particles expressed by recombinant vaccinia virus. Nemecková S, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):273–9

Use of quantitative assays for hepatitis B e antigen and IgM antibody to hepatitis B core antigen to monitor therapy in chronic hepatitis B. Hayashi PH, et al. **Am J Gastroenterol** 1996 Nov;91(11):2323–8

The significance of isolated antibody to hepatitis B core antigen seropositivity in patients infected with human immunodeficiency virus. Davaro RE, et al. **Clin Infect Dis** 1996 Jul;23(1):189–90

Should antibody to hepatitis B core antigen be tested in routine screening of donor corneas for transplant? [see comments] Mattern RM, et al. **Cornea** 1997 Mar; 16(2):138–45 (63 ref.). Comment in: Cornea 1997 Mar;16(2):123–4.

HIV–1 epitopes exposed by hybrid hepatitis B core particles affect proliferation of peripheral blood mononuclear cells from HIV–1 positive donors. Isaguliants MG, et al. **Immunol Lett** 1996 Aug;52(1):37–44

Safety and immunogenicity in humans of an attenuated Salmonella typhi vaccine vector strain expressing plasmid–encoded hepatitis B antigens stabilized by the Asd–balanced lethal vector system. Tacket CO, et al. **Infect Immun** 1997 Aug;65(8):3381–5

DNA vaccination with plasmids encoding the intracellular (HBcAg) or secreted (HBeAg) form of the core protein of hepatitis B virus primes T cell responses to two overlapping Kb– and Kd–restricted epitopes. Kuhröber A, et al. **Int Immunol** 1997 Aug;9(8):1203–12

Immunological responsiveness of Pekin ducks to core antigen of duck hepatitis B virus. Heermann KH, et al. **Intervirology** 1995;38(6):316–24

The role of transplacental hepatitis B core antibody in the mother–to–infant transmission of hepatitis B virus. Chang MH, et al. **J Hepatol** 1996 Jun;24(6):674–9

Long–term expression of the hepatitis B virus core–e– and X–proteins does not cause pathologic changes in transgenic mice. Reifenberg K, et al. **J Hepatol** 1997 Jan;26(1):119–30

Differential diagnosis of acute HBsAg positive hepatitis using IgM anti–HBc by a rapid, fully automated microparticle enzyme immunoassay. Tassopoulos NC, et al. **J Hepatol** 1997 Jan;26(1):14–9

Mutated epitopes of hepatitis B surface antigen fused to the core antigen of the virus induce antibodies that react with the native surface antigen. Shiau AL, et al. **J Med Virol** 1997 Mar;51(3):159–66

Relative functional affinity of specific anti–core IgG in different categories of hepatitis B virus infection. Thomas HI. **J Med Virol** 1997 Mar;51(3):189–97

Quantitative assessment of serum hepatitis B e antigen, IgM hepatitis B core antibody and HBV DNA in monitoring the response to treatment in patients with chronic hepatitis B. Bernard F, et al. **J Viral Hepat** 1997 Jul;4(4):265–72

Anergic TH1 clones specific for hepatitis B virus (HBV) core peptides are inhibitory to other HBV core–specific CD4+ T cells in vitro. Diepolder HM, et al. **J Virol** 1996 Nov; 70(11):7540–8

Characterization of T–cell response to woodchuck hepatitis virus core protein and protection of woodchucks from infection by immunization with peptides containing a T–cell epitope. Menne S, et al. **J Virol** 1997 Jan;71(1):65–74

The hepatitis B virus core and e antigens elicit different Th cell subsets: antigen structure can affect Th cell phenotype. Milich DR, et al. **J Virol** 1997 Mar;71(3):2192–201

Characterization of humoral and CD4+ cellular responses after genetic immunization with retroviral vectors expressing different forms of the hepatitis B virus core and e antigens. Sällberg M, et al. **J Virol** 1997 Jul; 71(7):5295–303

Characterization of CD8+ cytotoxic T–lymphocyte responses after genetic immunization with retrovirus vectors expressing different forms of the hepatitis B virus core and e antigens. Townsend K, et al. **J Virol** 1997 May; 71(5):3365–74

Success of mass vaccination of infants against hepatitis B [letter; comment] Durand AM, et al. **JAMA** 1996 Dec 11; 276(22):1802–3. Comment on: JAMA 1996 Sep 18;276(11):906–8.

Are alanine aminotransferase, hepatitis B virus DNA or IgM antibody to hepatitis B core antigen serum levels predictors of histological grading in chronic hepatitis B? Zavaglia C, et al. **Liver** 1997 Apr;17(2):83–7

Two–D distance distribution analysis: an application to HBcAg–positive hepatocytes and its relation to septum formation in cirrhosis. Endoh M, et al. **Tohoku J Exp Med** 1997 Jun;182(2):181–4

Role of testing for antibody to hepatitis B core antigen to prevent transmission of hepatitis B virus in organ and tissue transplantation. Kroes AC. **Transplant Proc** 1996 Oct; 28(5):2937–8 (12 ref.)

The presence of hepatitis B core antibody does not preclude kidney donation: lack of viral DNA in the serum and biopsies of core antibody–positive donors and clinical follow–up [letter] Cirocco R, et al. **Transplantation** 1997 Jun 15;63(11):1702–3

Risks of transplanting kidneys from hepatitis B surface antigen–negative, hepatitis B core antibody–positive donors. Satterthwaite R, et al. **Transplantation** 1997 Aug 15;64(3):432–5

Risk of inappropriate exclusion of organ donors by introduction of hepatitis B core antibody testing. Turner DP, et al. **Transplantation** 1997 Mar 15;63(5):775–7

Immunisation of mice using Salmonella typhimurium expressing human papillomavirus type 16 E7 epitopes inserted into hepatitis B virus core antigen. Londoño LP, et al. **Vaccine** 1996 Apr;14(6):545–52

Risk factors and anti–HBc reactivity among first time blood donors. Molijn MH, et al. **Vox Sang** 1997;72(4):207–10

[High percentage of isolated anti–HBc–positive persons among prisoners] Neifer S, et al. **Gesundheitswesen** 1997 Jun;59(6):409–12 (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Simple method for efficient production of hepatitis B virus core antigen in Escherichia coli. Naito M, et al. **Res Virol** 1997 Jul–Aug;148(4):299–305

Localization of hepatitis B virus core protein and viral DNA at the nuclear membrane. Bock CT, et al. **Virus Genes** 1996; 12(1):53–63

METABOLISM

Importance of the C terminus of the hepatitis B virus precore protein in secretion of HBe antigen. Carlier D, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1041–5

Both pre–S1 and S domains of hepatitis B virus envelope proteins interact with the core particle. Poisson F, et al. **Virology** 1997 Feb 3;228(1):115–20

ULTRASTRUCTURE

Translocation of hepatitis B virus core particles through nuclear pores in transformed yeast cells. Yamaguchi M, et al. **J Electron Microsc (Tokyo)** 1996 Aug;45(4):321–4

Determination of the fold of the core protein of hepatitis B virus by electron cryomicroscopy [see comments] Böttcher B, et al. **Nature** 1997 Mar 6;386(6620):88–91. Comment in: Nature 1997 Mar 6;385(6620):26–7.

Visualization of a 4–helix bundle in the hepatitis B virus capsid by cryo–electron microscopy [see comments] Conway JF, et al. **Nature** 1997 Mar 6;386(6620):91–4. Comment in: Nature 1997 Mar 6;385(6620):26–7.

Electron cryomicroscopy. Who needs crystals anyway? [news; comment] De Rosier DJ. **Nature** 1997 Mar 6; 386(6620):26–7. Comment on: Nature 1997 Mar 6;385(6620):88–91. Comment on: Nature 1997 Mar 6;385(6620):91–4.

HEPATITIS B E ANTIGENS

ANALYSIS

Use of quantitative assays for hepatitis B e antigen and IgM antibody to hepatitis B core antigen to monitor therapy in chronic hepatitis B. Hayashi PH, et al. **Am J Gastroenterol** 1996 Nov;91(11):2323–8

Alcohol consumption and seroconversion from hepatitis B e antigen in the Okinawa Japanese. Nomura H, et al. **Fukuoka Igaku Zasshi** 1996 Nov;87(11):237–41

Patients who do better do better. Koretz RL. **Gastroenterology** 1997 Apr;112(4):1418–20

Treatment of chronic hepatitis B (HBeAg–HBV DNA–positive) with lymphoblastoid alpha interferon with or without corticosteroids: short– and long–term follow–up. Zavaglia C, et al. **Ital J Gastroenterol** 1996 Jul–Aug;28(6):324–31

A randomized, double–blind, controlled trial of natural interferon–beta therapy for e–antigen–negative chronic hepatitis B patients with abnormal transaminase levels. Arase Y, et al. **J Gastroenterol** 1996 Aug;31(4):559–64

Serial changes in titers of antibody to hepatitis B surface antigen after immunization of infants born to mothers with hepatitis B e antigen. Fujisawa T, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):270–4

BIOSYNTHESIS

Effects of a frequent double–nucleotide basal core promoter mutation and its putative single–nucleotide precursor mutations on hepatitis B virus gene expression and replication. Buckwold VE, et al. **J Gen Virol** 1997 Aug; 78 (Pt 8):2055–65

Importance of the C terminus of the hepatitis B virus precore protein in secretion of HBe antigen. Carlier D, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1041–5

Hepatitis B virus X gene 1751 to 1764 mutations: implications for HBeAg status and disease. Kidd–Ljunggren K, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1469–78

Reduced antigen production by hepatitis B virus harbouring nucleotide deletions in the overlapping X gene and precore–core promoter. Moriyama K. **J Gen Virol** 1997 Jun;78 (Pt 6):1479–86

BLOOD

Core promoter mutations of hepatitis B virus for the response to interferon in e antigen–positive chronic hepatitis B. Kanai K, et al. **Am J Gastroenterol** 1996 Oct;91(10):2150–6

Long–term hepatitis B vaccine in infants born to hepatitis B e antigen positive mothers. Poovorawan Y, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F47–51

Fifth of e antigen negative carriers of hepatitis B virus should not perform exposure prone procedures [letter; comment] Boxall EH, et al. **BMJ** 1997 Jan 11;314(7074):144. Comment on: BMJ 1996 Sep 7;313(7057):576. Comment on: BMJ 1996 Sep 28;313(7060):771.

A novel assay for hepatitis B e markers. Boxall EH, et al. **J Med Virol** 1997 Jul;52(3):280–5

Quantitative assessment of serum hepatitis B e antigen, IgM hepatitis B core antibody and HBV DNA in monitoring the response to treatment in patients with chronic hepatitis B. Bernard F, et al. **J Viral Hepat** 1997 Jul;4(4):265–72

Hepatitis B and health care workers [letter; comment] Noone PA, et al. **Lancet** 1997 Jul 19;350(9072):219. Comment on: Lancet 1997 May 10;349(9062):1339–40.

Transmission of hepatitis B to patients from four infected surgeons without hepatitis B e antigen. The Incident Investigation Teams and others. **N Engl J Med** 1997 Jan 16;336(3):178–84

[Long–term follow–up of HBeAg–positive patients after interferon–alpha treatment for chronic hepatitis B] Goeser T. **Z Gastroenterol** 1997 Mar;35(3):233–5 **(Ger)**

[Prevalence of serologic markers of hepatitis B and D viruses in children of the Caiabi and Txucarramãe tribes from the Indian Reservation of Xingu, central Brazil] Azevedo RA,

HEPATITIS B E ANTIGENS

et al. **Rev Soc Bras Med Trop** 1996 Sep-Oct;29(5):431-9 (Eng. Abstr.) **(Por)**

DRUG EFFECTS

A randomized controlled trial of thymosin-alpha1 versus interferon alfa treatment in patients with hepatitis B e antigen antibody--and hepatitis B virus DNA--positive chronic hepatitis B. Andreone P, et al. **Hepatology** 1996 Oct;24(4):774-7

GENETICS

Hepatitis B virus envelope variation after transplantation with and without hepatitis B immune globulin prophylaxis. Carman WF, et al. **Hepatology** 1996 Sep;24(3):489-93

Hepatitis B virus carriers without precore mutations in hepatitis B e antigen-negative stage show more severe liver damage. Lindh M, et al. **Hepatology** 1996 Sep;24(3):494-501

Hepatitis B virus core and e antigen: immune recognition and use as a vaccine carrier moiety. Schödel F, et al. **Intervirology** 1996;39(1-2):104-10

Familial clustering of HBV pre-C and pre-S mutants. Santantonio T, et al. **J Hepatol** 1997 Feb;26(2):221-7

Hepatitis B virus core protein mutations are concentrated in B cell epitopes in progressive disease and in T helper cell epitopes during clinical remission. Carman WF, et al. **J Infect Dis** 1997 May;175(5):1093-100

Frequency of hepatitis B virus e-minus mutants varies among patients from different areas of China. Tu H, et al. **J Med Virol** 1997 Feb;51(2):85-9

The molecular basis of hepatitis B e antigen (HBeAg)-negative infections. Miyakawa Y, et al. **J Viral Hepat** 1997 Jan;4(1):1-8 (64 ref.)

Promoters for synthesis of the pre-C and pregenomic mRNAs of human hepatitis B virus are genetically distinct and differentially regulated. Yu X, et al. **J Virol** 1996 Dec; 70(12):8719-26

Distribution of the predominant hepatitis B virus precore variants in hepatitis B e antigen-positive children and their effect on treatment response. Cabrerizo M, et al. **Pediatr Res** 1996 Jun;39(6):980-4

Reduced precore transcription and enhanced core-pregenome transcription of hepatitis B virus DNA after replacement of the precore-core promoter with sequences associated with e antigen-seronegative persistent infections. Moriyama K, et al. **Virology** 1996 Dec 15; 226(2):269-80

IMMUNOLOGY

Differential localization of s and e antigens in hepatitis B virus-associated glomerulonephritis. Ohba S, et al. **Clin Nephrol** 1997 Jul;48(1):44-7

Transmission of a homogenous hepatitis B virus population of A1896-containing strains leading to mild resolving acute hepatitis and seroconversion to hepatitis B e antigen antibodies in an adult. Mphahlele MJ, et al. **Hepatology** 1997 Sep;26(3):743-6

DNA vaccination with plasmids encoding the intracellular (HBcAg) or secreted (HBeAg) form of the core protein of hepatitis B virus primes T cell responses to two overlapping Kb- and Kd-restricted epitopes. Kuhröber A, et al. **Int Immunol** 1997 Aug;9(8):1203-12

Long-term expression of the hepatitis B virus core-e- and X-proteins does not cause pathologic changes in transgenic mice. Reifenberg K, et al. **J Hepatol** 1997 Jan;26(1):119-30

Relative functional affinity of specific anti-core IgG in different categories of hepatitis B virus infection. Thomas HI. **J Med Virol** 1997 Mar;51(3):189-97

The hepatitis B virus core and e antigens elicit different Th cell subsets: antigen structure can affect Th cell phenotype. Milich DR, et al. **J Virol** 1997 Mar;71(3):2192-201

Characterization of humoral and CD4+ cellular responses after genetic immunization with retroviral vectors expressing different forms of the hepatitis B virus core and e antigens. Sällberg M, et al. **J Virol** 1997 Jul; 71(7):5295-303

Characterization of CD8+ cytotoxic T-lymphocyte responses after genetic immunization with retrovirus vectors expressing different forms of the hepatitis B virus core and e antigens. Townsend K, et al. **J Virol** 1997 May; 71(5):3365-74

Anti-HBe titre in patients infected with wild-type and e-minus variant of hepatitis B virus. Tu H, et al. **Res Virol** 1996 Jan-Feb;147(1):39-43

METABOLISM

A non-invasive assessment of hepatitis B virus carrier status using saliva samples. Richards AL, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):80-4

PHYSIOLOGY

Hepatitis B virus replication and mutation are autoregulated by interactions between surface antigen and HBeAg and the HBV DNA polymerase: a functional model with therapeutic implications. Sallie R. **Med Hypotheses** 1997 Jan;48(1):1-10

HEPATITIS B SURFACE ANTIGENS

[Should healthy carriers of HBs antigen be followed-up?] Zylberberg H, et al. **Gastroenterol Clin Biol** 1996; 20(10):727-9 **(Fre)**

ADMINISTRATION & DOSAGE

Humoral and cellular immune responses to hepatitis B vaccination in hepatitis B surface antigen-carrier children who cleared serum-hepatitis B surface antigen. Hsu HY, et al. **Hepatology** 1996 Dec;24(6):1355-60

Effect of a novel saponin adjuvant derived from Quillaja saponaria on the immune response to recombinant hepatitis B surface antigen. So HS, et al. **Mol Cells** 1997 Apr 30; 7(2):178-86

ANALYSIS

Seroprevalence and coprevalence of HIV and HBsAg in Nigerian children with/without protein energy malnutrition. Akenami FO, et al. **Acta Trop** 1997 Apr 15; 64(3-4):167-74

The cellular immune status of HBsAg-positive carriers in Malaysia. Choong ML, et al. **Asian Pac J Allergy Immunol** 1996 Jun;14(1):19-24

p53 mutations, chronic hepatitis B virus infection, and aflatoxin exposure in hepatocellular carcinoma in Taiwan. Lunn RM, et al. **Cancer Res** 1997 Aug 15;57(16):3471-7

Clearance of hepatitis B surface antigen after bone marrow transplantation: role of adoptive immunity transfer. Lau GK, et al. **Hepatology** 1997 Jun;25(6):1497-501

Henoch schonlein purpura in adults associated with hepatitis B antigen [letter] Singh PS. **J Assoc Physicians India** 1995 Jan;43(1):73

Persistence of hepatitis B virus DNA in serum and liver from patients with chronic hepatitis B after loss of HBsAg. Loriot MA, et al. **J Hepatol** 1997 Aug;27(2):251-8

Recurrent demyelinating transverse myelitis in a high titer HBs-antigen carrier. Matsui M, et al. **J Neurol Sci** 1996 Aug;139(2):235-7

Hepatitis B infection in households of HBsAg positive New Zealand children. Martin AR, et al. **N Z Med J** 1996 Dec 13;109(1035):463-5

The frequencies of hepatitis B virus markers and hepatitis C virus antibody in patients with glomerulonephritis. Paydas S, et al. **Nephron** 1996;74(3):617-9

Hepatitis B and C viruses in hepatitis B surface antigen negative hepatocellular carcinoma patients. Bréchot C, et al. **Princess Takamatsu Symp** 1995;25:199-209 (57 ref.)

Serological profiles of hepatitis B carrier patients in Singapore with special reference to the frequency and significance of concurrent presence of HBsAg and anti-HBs. Wang YM, et al. **Singapore Med J** 1996 Apr; 37(2):150-2

Three manual immunoassays for the rapid detection of hepatitis B surface antigen. Finny GJ, et al. **Trans R Soc Trop Med Hyg** 1996 Sep-Oct;90(5):533-4

Variation in the sensitivity of HBsAg screening kits. Palmer DR, et al. **Transfus Med** 1996 Dec;6(4):311-7

Risks of transplanting kidneys from hepatitis B surface antigen-negative, hepatitis B core antibody-positive donors. Satterthwaite R, et al. **Transplantation** 1997 Aug 15;64(3):432-5

Peritoneoscopic liver biopsy findings in asymptomatic chronic HBsAg carriers with normal liver function tests and no hepatomegaly. Chon CY, et al. **Yonsei Med J** 1996 Oct;37(5):295-301

[Clinical and virological evaluation of the detection of pre-S1 and pre-S2 antigens in serum from patients with chronic hepatitis B] Zoulim F, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):970-5 (Eng. Abstr.) **(Fre)**

[Immunohistochemical study of hepatitis B and D virus antigens (HBsAg, HBcAg, HDAg) in chronic liver diseases] Horváth G, et al. **Orv Hetil** 1996 May 26; 137(21):1133-8 (Eng. Abstr.) **(Hun)**

[Liver morphology in patients with pulmonary tuberculosis with viral hepatitis B and organochlorine pesticides markers] Mukhtarov DZ, et al. **Probl Tuberk** 1997;(1):54-6 (Eng. Abstr.) **(Rus)**

BIOSYNTHESIS

Interferon-omega suppresses hepatitis B surface antigen production in human hepatoma cell line. Hainická V, et al. **Acta Virol** 1996 Sep;40(4):221-2

Study of structure-activity correlation in destruxins, a class of cyclodepsipeptides possessing suppressive effect on the generation of hepatitis B virus surface antigen in human hepatoma cells. Yeh SF, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):65-72

Production of hepatitis B virus covalently closed circular DNA in transfected cells is independent of surface antigen synthesis. Ling R, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1463-7

Reduced antigen production by hepatitis B virus harbouring nucleotide deletions in the overlapping X gene and precore-core promoter. Moriyama K. **J Gen Virol** 1997 Jun;78 (Pt 6):1479-86

The inhibitory effects of antisense RNA on hepatitis B virus surface antigen synthesis. Wu J, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):641-7

Inhibition of the expression of hepatitis A and B viruses (HAV and HBV) proteins by interferon in a human hepatocarcinoma cell line (PLC/PRF/5). Berthillon P, et al. **J Hepatol** 1996 Jul;25(1):15-9

Activation of hepatitis B virus S promoter by the viral large surface protein via induction of stress in the endoplasmic reticulum. Xu Z, et al. **J Virol** 1997 Oct;71(10):7387-92

Influence of the parental virus strain on the virulence and immunogenicity of recombinant vaccinia viruses expressing HBV preS2-S protein or VZV glycoprotein I. Kutinová L, et al. **Vaccine** 1996 Aug;14(11):1045-52

BLOOD

Transient hepatitis B surface antigenemia after neonatal hepatitis B immunization. Köksal N, et al. **Acta Paediatr** 1996 Dec;85(12):1501-2

Materno-umbilical ratio of hepatitis B virus (HBV) surface antigen exceeds that of human chorionic gonadotropin in HBV-infected deliveries. Nørskov-Lauritsen N. **Acta Virol** 1996 Nov-Dec;40(5-6):293-5

Hepatitis C antibodies in haemodialysis and pattern of end-stage renal failure in Gassim, Saudi Arabia. Soyannwo MA, et al. **Afr J Med Med Sci** 1996 Mar;25(1):13-22

Hepatitis B immunisation rates among infants in ethnic groups with high prevalences of hepatitis B surface antigen carriers. Oman KM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):293-6

Correlation of hepatitis virus serologic status with clinicopathologic features in patients undergoing hepatectomy for hepatocellular carcinoma. Yamanaka N, et al. **Cancer** 1997 Apr 15;79(8):1509-15

Polymerase chain reaction analysis for viral nucleic acids in acute sporadic hepatitis patients negative for serum hepatitis B surface antigen and antibodies to hepatitis C virus. Huo TI, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec; 58(6):379-84

Detection of hepatitis B surface antigen in whole blood by coupled particle light scattering (Copalis). Benecky MJ, et al. **Clin Chem** 1997 Sep;43(9):1764-70

Quality control for qualitative assays: quantitative QC procedure designed to assure analytical quality required for an ELISA of hepatitis B surface antigen. Green GA 4th, et al. **Clin Chem** 1997 Sep;43(9):1618-21

Prevalence of HBsAg among the non cauterized groups of blood donors. Khalil IA, et al. **East Afr Med J** 1996 Nov; 73(11):717-9

HBsAg ELISA: comparison of serum and uncentrifuged plasma samples dried on filter paper. Khan NR, et al. **East Afr Med J** 1996 Sep;73(9):592-3

Prevalence of hepatitis B virus infection in pregnant Turkish women and their families. Kuru U, et al. **Eur J Clin Microbiol Infect Dis** 1996 Mar;15(3):248-51

Prevalence of hepatitis A, B, and C markers in school children of a rural area of Crete, Greece. Lionis C, et al. **Eur J Epidemiol** 1997 Jun;13(4):417-20

Prophylaxis in liver transplant recipients using a fixed dosing schedule of hepatitis B immunoglobulin. Terrault NA, et al. **Hepatology** 1996 Dec;24(6):1327-33

Evaluation of HBsAg carrier rate in acute viral hepatitis and high risk individuals using RPHA and ELISA. Korgaonkar A, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):277-80

Prevalence of hepatitis B surface antigen in pregnant Lebanese women. Nabulsi MM, et al. **Int J Gynaecol Obstet** 1997 Aug;58(2):243-4

Vaccine-induced hepatitis B surface antigen positivity in adult hemodialysis patients: incidental and surveillance data. Janzen L, et al. **J Am Soc Nephrol** 1996 Aug; 7(8):1228-34

Detection of HBsAg and HIV carriage among blood donors or rural population of Loni areas. Jain RC, et al. **J Assoc Physicians India** 1995 May;43(5):378

Evaluation of immunochromatographic assay systems for rapid detection of hepatitis B surface antigen and antibody, Dainascreen HBsAg and Dainascreen Ausab. Sato K, et al. **J Clin Microbiol** 1996 Jun;34(6):1420-2

Persistence of hepatic hepatitis B virus after serological clearance of HBsAg with autologous peripheral stem cell transplantation. Lau GK, et al. **J Clin Pathol** 1997 Aug; 50(8):706-8

Quantitative analysis of IgM anti-HBc in chronic hepatitis B patients using a new "gray-zone" for the evaluation of "borderline" values. Colloredo G, et al. **J Hepatol** 1996 Nov;25(5):644-8

Decrease in HDV endemicity in Italy. Sagnelli E, et al. **J Hepatol** 1997 Jan;26(1):20-4

Post-transfusion hepatitis type B following multiple transfusions of HBsAg-negative blood. Saraswat S, et al. **J Hepatol** 1996 Nov;25(5):639-43

Acute exacerbations in chronic hepatitis C: a clinicopathological and prognostic study. Sheen IS, et al. **J Hepatol** 1996 May;24(5):525-31

Differential diagnosis of acute HBsAg positive hepatitis using IgM anti-HBc by a rapid, fully automated microparticle enzyme immunoassay. Tassopoulos NC, et al. **J Hepatol** 1997 Jan;26(1):14-9

Prevalence of hepatitis B surface antigenaemia in healthy children. Abbas KA, et al. **JPMA J Pak Med Assoc** 1997 Mar;47(3):93-4

Detection of serum HBV DNA and anti-HCV antibody in HBsAg seronegative patients with hepatocellular carcinoma in Japan. Tokeshi S, et al. **Kansenshogaku Zasshi** 1996 Feb;70(2):103-7

Immunogenicity of hepatitis B vaccine with pre-S1, pre-S2 and S antigens [letter] Dhawan PS, et al. **Natl Med J India** 1996 Jul-Aug;9(4):201

Superinfection with hepatitis C virus in hemodialysis patients

with hepatitis B surface antigenemia: its prevalence and clinical significance in Taiwan. Chen KS, et al. **Nephron** 1996;73(2):158–64

Prevalence of hepatitis B and C markers in the south–east of Spain: an unlinked community–based serosurvey of 2,203 adults. Garcia–Fulgueiras A, et al. **Scand J Infect Dis** 1996; 28(1):17–20

Hepatitis B markers in men seeking human immunodeficiency virus antibody testing in Mexico City. Juárez–Figueroa LA, et al. **Sex Transm Dis** 1997 Apr;24(4):211–7

Seroprevalence of hepatitis B and C viral markers in patients with primary hepatocellular carcinoma in Singapore. Khin LW, et al. **Singapore Med J** 1996 Oct;37(5):492–6

False–positive hepatitis B surface antigen screening test results in patients receiving granulocyte–colony–stimulating factor. Mair DC, et al. **Transfusion** 1996 Nov–Dec;36(11–12):948–51 (11 ref.)

Results of kidney transplantation in HBsAG and anti–HCV seropositive renal allograft recipients. Durlik M, et al. **Transplant Proc** 1996 Dec;28(6):3459–60

Comparison of two hepatitis B surface antigen and two HIV–1 (p24) antigen EIA test kits with hemolyzed cadaveric blood specimens. Novick SJ, et al. **Transplant Proc** 1996 Oct;28(5):2925–6

Routine prenatal screening of Indian women for HBsAg: benefits derived versus cost. Sriprakash I, et al. **Trop Doct** 1997 Jul;27(3):176–7

[A genetic epidemiologic study on HBsAg chronic carriers] Wang WJ, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):148–51 (Eng. Abstr.) **(Chi)**

[False reactions in the research of HBs antigen in a pregnant woman] Lion G, et al. **Ann Biol Clin (Paris)** 1997 Jul–Aug; 55(4):337–8 **(Fre)**

[Assessment of 32 months of continuous control of detection kits for anti–HIV and anti–HTLV antibodies and Hbs antigen used most commonly in transfusion biology. Retrovirus Study Group and Viral Hepatitis Study Group] North ML, et al. **Transfus Clin Biol** 1997;4(2):185–201 (Eng. Abstr.) **(Fre)**

[Anti–idiotypic antibodies against antibodies to HBsAg and against antibodies to pre–S1 and pre–S2 fragments of HBV in patients with chronic HBs antigenemia] Jagielski P, et al. **Med Dosw Mikrobiol** 1996;48(1–2):79–85 (Eng. Abstr.) **(Pol)**

[Prevalence of serologic markers of hepatitis B and D viruses in children of the Caiabi and Txucarramãe tribes from the Indian Reservation of Xingu, central Brazil] Azevedo RA, et al. **Rev Soc Bras Med Trop** 1996 Sep–Oct;29(5):431–9 (Eng. Abstr.) **(Por)**

[The prevalence of HBsAg in hospitalized children as a marker of hepatitis B virus infection] Iancu L, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan–Jun; 42(1–2):95–8 (Eng. Abstr.) **(Rum)**

[Profiles of serological markers of HBV–infection in acute hepatitis B] Nikiforov ND, et al. **Klin Med (Mosk)** 1996; 74(7):16–8 (Eng. Abstr.) **(Rus)**

[Immunological markers in patients with a history of viral hepatitis B and D and HBsAg carriers] Leĭbenzon AS. **Lik Sprava** 1995 Mar–Apr;(3–4):107–9 **(Rus)**

CHEMISTRY

Maltodextrin–binding protein hybrids carrying epitopes from the preS2 region of hepatitis B virus: expression, antibody–binding and preliminary crystallographic studies. Vulliez–le Normand B, et al. **Protein Eng** 1997 Feb; 10(2):175–80

Crystal structure of a recombinant form of the maltodextrin–binding protein carrying an inserted sequence of a B–cell epitope from the preS2 region of hepatitis B virus. Saul FA, et al. **Proteins** 1997 Jan;27(1):1–8

Comparison between hepatitis B surface antigen (HBsAg) particles derived from mammalian cells (CHO) and yeast cells (Hansenula polymorpha): composition, structure and immunogenicity. Diminsky D, et al. **Vaccine** 1997 Apr–May;15(6–7):637–47

DRUG EFFECTS

Specific inhibition of hepatitis b virus gene expression by an antisense oligonucleotide in vitro. Yao ZQ, et al. **Acta Virol** 1995 Sep;39(4):227–230

Inhibition of HBsAg secretion from Alexander cell line by Phyllanthus amarus. Jayaram S, et al. **Indian J Pathol Microbiol** 1996 Jul;39(3):211–5

GENETICS

Detection of hepatitis B virus DNA in hepatitis B surface antigen–negative serum by polymerase chain reaction: evaluation of different primer pairs and conditions. Gomes SA, et al. **Acta Virol** 1996 Jun;40(3):133–8

Suppressive effects of destruxin B on hepatitis B virus surface antigen gene expression in human hepatoma cells. Chen HC, et al. **Antiviral Res** 1997 May;34(3):137–44

Differential regulation of major surface promoter in hepatitis B virus. Kuo YL, et al. **DNA Cell Biol** 1997 May; 16(5):545–57

Polypeptides of hepatitis B surface antigen produced in transgenic potato. Ehsani P, et al. **Gene** 1997 Apr 29; 190(1):107–11

Construction of adenoviral and retroviral vectors coexpressing the genes encoding the hepatitis B surface antigen and B7–1 protein. He XS, et al. **Gene** 1996 Oct 10;175(1–2):121–5

Production of hepatitis B virus preS polypeptide in Escherichia coli by mutation of the 5'–end coding sequence and its purification and characterization. Kim HS, et al. **Gene** 1996 Oct 24;177(1–2):173–7

Deletion of the myristylation signal allows high–level production of the hepatitis B virus large surface glycoprotein preS1 with vaccinia virus recombinants. Pfleiderer M, et al. **Gene** 1996 Oct 17;176(1–2):131–7

Immune–mediated destruction of transfected muscle fibers after direct gene transfer with antigen–expressing plasmid DNA. Davis HL, et al. **Gene Ther** 1997 Mar;4(3):181–8

Use of SV40–based vectors to transduce foreign genes to normal human peripheral blood mononuclear cells. Strayer DS, et al. **Gene Ther** 1997 Mar;4(3):219–25

Pre–S2 defective hepatitis B virus infection in patients with fulminant hepatitis. Pollicino T, et al. **Hepatology** 1997 Aug; 26(2):495–9

A unique segment of the hepatitis B virus group A genotype identified in isolates from South Africa. Bowyer SM, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1719–29

Differences in the target specificity of the transactivating factors MHBs(t) and HBx of hepatitis B virus. Mühlbauer E, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1033–9

Familial clustering of HBV pre–C and pre–S mutants. Santantonio T, et al. **J Hepatol** 1997 Feb;26(2):221–7

Detection of hepatitis B surface gene mutation in carrier children with or without immunoprophylaxis at birth. Lee PI, et al. **J Infect Dis** 1997 Aug;176(2):427–30

Infectivity and pathogenicity in chimpanzees of a surface gene mutant of hepatitis B virus that emerged in a vaccinated infant. Ogata N, et al. **J Infect Dis** 1997 Mar; 175(3):511–23

A functional hepatocyte nuclear factor 3 binding site is a critical component of the duck hepatitis B virus major surface antigen promoter. Welsheimer T, et al. **J Virol** 1996 Dec;70(12):8813–20

Activation of hepatitis B virus S promoter by the viral large surface protein via induction of stress in the endoplasmic reticulum. Xu Z, et al. **J Virol** 1997 Oct;71(10):7387–92

Hepatitis B nucleotide sequence analysis: linking an outbreak of acute hepatitis B to contamination of a cryopreservation tank. Hawkins AE, et al. **J Virol Methods** 1996 Jun; 60(1):81–8

Natural history of hepatitis B surface antigen mutants in children [letter] [published erratum appears in Lancet 1997 Apr 12;349(9058):1106] Oon CJ, et al. **Lancet** 1996 Nov 30;348(9040):1524

Evaluation of the N–terminal role in peptide antigenicity of the preS2 region of the hepatitis B virus surface antigen. Lee MK, et al. **Mol Cells** 1997 Jun 30;7(3):340–6

A new immune escape mutant of hepatitis B virus with an Asp to Ala substitution in aa144 of the envelope major protein. Ni F, et al. **Res Virol** 1995 Nov–Dec; 146(6):397–407

Association between the accumulation of hepatitis B virus core gene deletion mutants and progression of liver disease in long–term renal transplant patients. Reinke P, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):815–6

DNA–based immunization against hepatitis B surface antigen (HBsAg) in normal and HBsAg–transgenic mice. Davis HL, et al. **Vaccine** 1997 Jun;15(8):849–52

The TATA–less promoter of hepatitis B virus S gene contains a TBP binding site and an active initiator. Bogomolski–Yahalom V, et al. **Virus Res** 1997 May; 49(1):1–7

[Preparation and study of recombinant strains of Venezuelan equine encephalomyelitis virus expressing the PreS2–S gene of the hepatitis B virus] Dryga SA, et al. **Vopr Virusol** 1996 May–Jun;41(3):100–4 (Eng. Abstr.) **(Rus)**

[The prospects for using the genetically engineered surface antigen of the hepatitis B virus (HBsAg) expressed by recombinant poxvirus strains as the basis for vaccines against hepatitis B] Zheleznova NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):49–53 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Western blot analysis of the reactivity between envelope proteins of hepatitis B viruses from Brazilian carriers and antibodies raised against recombinant hepatitis B vaccines. De Castro L, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):251–8

Hepatitis B virus core–preS2 particles expressed by recombinant vaccinia virus. Nemecková S, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):273–9

Hepatitis B vaccine: current issues. Zannolli R, et al. **Ann Pharmacother** 1997 Sep;31(9):1059–67 (60 ref.)

Epitope mapping of preS2 of the hepatitis B virus surface antigen against a conformation–dependent monoclonal antibody using synthetic peptides. Lee MK, et al. **Biochem Mol Biol Int** 1996 Dec;40(6):1077–85

Immune response to a new hepatitis B vaccine in healthcare workers who had not responded to standard vaccine: randomised double blind dose–response study. Zuckerman JN, et al. **BMJ** 1997 Feb 1;314(7077):329–33

Differential localization of s and e antigens in hepatitis B virus–associated glomerulonephritis. Ohba S, et al. **Clin Nephrol** 1997 Jul;48(1):44–7

Hepatitis B vaccination in diabetic patients. Randomized trial comparing recombinant vaccines containing and not containing pre–S2 antigen. Douvin C, et al. **Diabetes Care** 1997 Feb;20(2):148–51

'Empty' Ld molecules capture peptides from endocytosed hepatitis B surface antigen particles for major histocompatibility complex class I–restricted presentation. Schirmbeck R, et al. **Eur J Immunol** 1996 Dec; 26(12):2812–22

Liposome–mediated DNA vaccination. Gregoriadis G, et al. **FEBS Lett** 1997 Feb 3;402(2–3):107–10

Molecular analysis of the modulatory factors of the response to HBsAg in mice as an approach to HBV vaccine enhancement. Bouige P, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):71–9

Epitope specificity of Th0/Th2 CD4+ T–lymphocyte clones induced by vaccination with rHBsAg vaccine. Honorati MC, et al. **Gastroenterology** 1997 Jun;112(6):2017–27

The role of HBV DNA and liver histopathology in HBsAg carriers. Agalar C, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1196–9

A pretransplant infection with precore mutants of hepatitis B virus does not influence the outcome of orthotopic liver transplantation in patients on high dose anti–hepatitis B virus surface antigen immunoprophylaxis. Naumann U, et al. **Hepatology** 1997 Aug;26(2):478–84

Presence of antibodies to the hepatitis B surface antigen is associated with an excess risk for hepatocellular carcinoma among non–Asians in Los Angeles County, California [published erratum appears in Hepatology 1997 May;25(5):1298] Yu MC, et al. **Hepatology** 1997 Jan; 25(1):226–8

A humanized antibody with specificity for hepatitis B surface antigen. Ryu CJ, et al. **Hum Antibodies Hybridomas** 1996; 7(3):113–22

Identification of an epitope for T–cells correlated with antibody response to hepatitis B surface antigen in vaccinated humans. Min WP, et al. **Hum Immunol** 1996 Apr;46(2):93–9

Generation and characterization of a humanized antibody with specificity for preS2 surface antigen of hepatitis B virus. Park SS, et al. **Hybridoma** 1996 Dec;15(6):435–41

Safety and immunogenicity in humans of an attenuated Salmonella typhi vaccine vector strain expressing plasmid–encoded hepatitis B antigens stabilized by the Asd–balanced lethal vector system. Tacket CO, et al. **Infect Immun** 1997 Aug;65(8):3381–5

Contribution of HLA class I and class II alleles to the regulation of antibody production to hepatitis B surface antigen in humans. Mineta M, et al. **Int Immunol** 1996 Apr; 8(4):525–31

Virus–like particles induce MHC class I–restricted T–cell responses. Lessons learned from the hepatitis B small surface antigen. Schirmbeck R, et al. **Intervirology** 1996; 39(1–2):111–9

Immunogenic presentation of a conserved gp41 epitope of human immunodeficiency virus type 1 on recombinant surface antigen of hepatitis B virus. Eckhart L, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2001–8

Suppression of human hepatoma in mice through adoptive transfer of immunity to the hepatitis B surface antigen. Ilan Y, et al. **J Hepatol** 1997 Jul;27(1):170–5

Determination of anti–HBsAg IgM monoclonal antibodies in cell culture media by perfusion immunoassay. Brackett JM, et al. **J Immunol Methods** 1997 Jan 15;200(1–2):39–46

Cell display library for gene cloning of variable regions of human antibodies to hepatitis B surface antigen. Higuchi K, et al. **J Immunol Methods** 1997 Mar 28;202(2):193–204

MF59 adjuvant enhances the antibody response to recombinant hepatitis B surface antigen vaccine in primates. Traquina P, et al. **J Infect Dis** 1996 Dec;174(6):1168–75

In vitro neutralization of hepatitis B virus by monoclonal antibodies against the viral surface antigen. Ryu CJ, et al. **J Med Virol** 1997 Jun;52(2):226–33

Mutated epitopes of hepatitis B surface antigen fused to the core antigen of the virus induce antibodies that react with the native surface antigen. Shiau AL, et al. **J Med Virol** 1997 Mar;51(3):159–66

Inhibition of hepatitis B surface antigen secretion on human hepatoma cells. Components from Rubia cordifolia. Ho LK, et al. **J Nat Prod** 1996 Mar;59(3):330–3

Serial changes in titers of antibody to hepatitis B surface antigen after immunization of infants born to mothers with hepatitis B e antigen. Fujisawa T, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):270–4

The clinical significance of surface antigen variants of hepatitis B virus. Carman WF. **J Viral Hepat** 1997;4 Suppl 1:11–20 (47 ref.)

Reactogenicity and immunogenicity of a new recombinant hepatitis B vaccine containing Pre S antigens: a preliminary report. Hourvitz A, et al. **J Viral Hepat** 1996 Jan;3(1):37–42

Functional implications of hepatitis B surface antigen (HBsAg) in the T cells of chronic HBV carriers. Nagaraju K, et al. **J Viral Hepat** 1997 Jul;4(4):221–30

Oxidative burst response of neutrophils primed with PreS1 antigen of hepatitis B virus in patients with chronic hepatitis B and convalescents. Sułowska Z, et al. **J Viral Hepat** 1996 Nov;3(6):293–9

Improvement of hepatitis B virus DNA vaccines by plasmids coexpressing hepatitis B surface antigen and interleukin–2. Chow YH, et al. **J Virol** 1997 Jan;71(1):169–78

Novel and frequent mutations of hepatitis B virus coincide with a major histocompatibility complex class I–restricted T–cell epitope of the surface antigen. Tai PC, et al.

J Virol 1997 Jun;71(6):4852–6

Identification of polyclonal serum specificities with phage–display libraries. Germaschewski V, et al. **J Virol Methods** 1996 Apr 26;58(1–2):21–32

Vaccine against human hepatitis B. 1976 [classical article] [see comments] Buynak EB, et al. **JAMA** 1996 Dec 11; 276(22):1793–5. Comment in: JAMA 1996 Dec 11;276(22):1796–5.

Success of mass vaccination of infants against hepatitis B [letter; comment] Durand AM, et al. **JAMA** 1996 Dec 11; 276(22):1802–3. Comment on: JAMA 1996 Sep 18;276(11):906–8.

Hepatitis B virus clearance by transplantation of bone marrow from hepatitis B immunised donor [letter] [see comments] Brugger SA, et al. **Lancet** 1997 Apr 5; 349(9057):996–7. Comment in: Lancet 1997 May 31;349(9065):1626–7.

Is vaccination of donor adequate for clearance of hepatitis B virus after bone–marrow transplantation? [letter; comment] Lau GK, et al. **Lancet** 1997 May 31; 349(9065):1626–7. Comment on: Lancet 1997 Apr 5;349(9057):996–7.

High rate of seroconversion following administration of a single supplementary dose of recombinant hepatitis B vaccine in Iranian healthy nonresponder neonates. Shokri F, et al. **Med Microbiol Immunol (Berl)** 1997 Mar; 185(4):231–5

Safety and immunogenicity of a novel mammalian cell–derived recombinant hepatitis B vaccine containing Pre–S1 and Pre–S2 antigens in neonates. Yerushalmi B, et al. **Pediatr Infect Dis J** 1997 Jun;16(6):587–92

Highly specific, cross–reactive sequences recognized by an anti–HBsAg antibody identified from a positional scanning synthetic combinatorial library. Appel JR, et al. **Pept Res** 1996 Jul–Aug;9(4):174–82

DNA–mediated immunization in a transgenic mouse model of the hepatitis B surface antigen chronic carrier state. Mancini M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12496–501

Anti–HBs responses in children vaccinated with different schedules of either plasma–derived or HBV DNA recombinant vaccine. Da Villa G, et al. **Res Virol** 1997 Mar–Apr;148(2):109–14

A new immune escape mutant of hepatitis B virus with an Asp to Ala substitution in aa144 of the envelope major protein. Ni F, et al. **Res Virol** 1995 Nov–Dec; 146(6):397–407

Increasing heterogeneity of the 'a' determinant of HBsAg found in the presumed late phase of chronic hepatitis B virus infection. Zhang YY, et al. **Scand J Infect Dis** 1996; 28(1):9–15

Contribution of human leukocyte antigens to the antibody response to hepatitis B vaccination. McDermott AB, et al. **Tissue Antigens** 1997 Jul;50(1):8–14

Intravenous or intramuscular anti–HBs immunoglobulin for the prevention of hepatitis B reinfection after orthotopic liver transplantation. Burbach GJ, et al. **Transplantation** 1997 Feb 15;63(3):478–80

Replication and immunogenicity of Ad7–, Ad4–, and Ad5–hepatitis B virus surface antigen recombinants, with or without a portion of E3 region, in chimpanzees. Chengalvala MV, et al. **Vaccine** 1997 Feb;15(3):335–9

Persistence of anti–HBs in children vaccinated against viral hepatitis B in the first year of life: follow–up at 5 and 10 years. Da Villa G, et al. **Vaccine** 1996 Nov;14(16):1503–5

DNA–mediated immunization to hepatitis B surface antigen: longevity of primary response and effect of boost. Davis HL, et al. **Vaccine** 1996 Jun;14(9):910–5

Comparison between hepatitis B surface antigen (HBsAg) particles derived from mammalian cells (CHO) and yeast cells (Hansenula polymorpha): composition, structure and immunogenicity. Diminsky D, et al. **Vaccine** 1997 Apr–May;15(6–7):637–47

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of hepatitis B virus DNA. Lazizi Y, et al. **Vaccine** 1997 Jul;15(10):1095–100

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of HBV DNA. Lazizi Y, et al. **Vaccine** 1997 Aug;15(11):1194–9

Safety and immunogenicity of a novel mammalian cell–derived recombinant hepatitis B vaccine containing Pre–S1 and Pre–S2 antigens in children. Raz R, et al. **Vaccine** 1996 Feb;14(3):207–11

Controlled release microparticles as a single dose hepatitis B vaccine: evaluation of immunogenicity in mice. Singh M, et al. **Vaccine** 1997 Apr;15(5):475–81

Vaccine induced immunologic memory for hepatitis B surface antigen: implications for policy on booster vaccination. West DJ, et al. **Vaccine** 1996 Aug; 14(11):1019–27 (78 ref.)

[Avian yolk antibodies in diagnosis and research] Gross M, et al. **DTW Dtsch Tierarztl Wochenschr** 1996 Oct; 103(10):417–22 (Eng. Abstr.) **(Ger)**

[The prospects for using the genetically engineered surface antigen of the hepatitis B virus (HBsAg) expressed by recombinant poxvirus strains as the basis for vaccines against hepatitis B] Zheleznova NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep–Oct; (5):49–53 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

A cytological study of hepatitis B surface antigen localization using orcein staining in hepatocellular carcinoma. Panicker JN, et al. **Indian J Med Res** 1996 Dec;104:374–6

METABOLISM

Trans–activation of cellular genes by hepatitis B virus proteins: a possible mechanism of hepatocarcinogenesis. Caselmann WH. **Adv Virus Res** 1996;47:253–302 (323 ref.)

Synergy between transforming growth factor alpha and hepatitis B virus surface antigen in hepatocellular proliferation and carcinogenesis. Jakubczak JL, et al. **Cancer Res** 1997 Aug 15;57(16):3606–11

Osthole increases glycosylation of hepatitis B surface antigen and suppresses the secretion of hepatitis B virus in vitro. Huang RL, et al. **Hepatology** 1996 Sep;24(3):508–15

Hepatitis B virus binding to leucocyte plasma membranes utilizes a different region of the preS1 domain to the hepatocyte receptor binding site and does not require receptors for opsonins. Atkins GJ, et al. **Immunol Cell Biol** 1997 Jun;75(3):259–66

Spontaneous hepatitis B surface antigen clearance in a long–term follow–up study of patients with chronic type B hepatitis. Lack of correlation with hepatitis C and D virus superinfection. Da Silva LC, et al. **J Gastroenterol** 1996 Oct;31(5):696–701

Hepatitis B virus: specific binding and internalization of small HBsAg by human hepatocytes. de Bruin WC, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1047–50

Hepatitis B virus preS1 functions as a transcriptional activation domain. Kim HS, et al. **J Gen Virol** 1997 May; 78 (Pt 5):1083–6

Presentation of the hydrophilic domains of hepatitis C viral E2 envelope glycoprotein on hepatitis B surface antigen particles. Lee IH, et al. **J Med Virol** 1996 Oct;50(2):145–51

The small envelope protein is required for secretion of a naturally occurring hepatitis B virus mutant with pre–S1 deleted. Melegari M, et al. **J Virol** 1997 Jul;71(7):5449–54

Apical sorting of hepatitis B surface antigen (HBsAg) is independent of N–glycosylation and glycosylphosphatidylinositol–anchored protein segregation. Marzolo MP, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1834–9

A non–invasive assessment of hepatitis B virus carrier status using saliva samples. Richards AL, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):80–4

Both pre–S1 and S domains of hepatitis B virus envelope proteins interact with the core particle. Poisson F, et al. **Virology** 1997 Feb 3;228(1):115–20

PHYSIOLOGY

The hepatitis B virus MHBst167 protein is a pleiotropic transactivator mediating its effect via ubiquitous cellular transcription factors. Caselmann WH, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1487–95

Hepatitis B virus replication and mutation are autoregulated by interactions between surface antigen and HBeAg and the HBV DNA polymerase: a functional model with therapeutic implications. Sallie R. **Med Hypotheses** 1997 Jan;48(1):1–10

THERAPEUTIC USE

Placebo–controlled trial of vaccination with hepatitis B virus surface antigen in hepatitis B virus transgenic mice. Akbar SM, et al. **J Hepatol** 1997 Jan;26(1):131–7

HEPATITIS B VACCINES

Transient hepatitis B surface antigenemia after neonatal hepatitis B immunization. Köksal N, et al. **Acta Paediatr** 1996 Dec;85(12):1501–2

Prophylaxis of acute viral hepatitis by immune serum globulin, hepatitis B vaccine, and health education: a sixteen year study of Japan overseas cooperation volunteers. Ohara H, et al. **Am J Trop Med Hyg** 1997 Jan; 56(1):76–9

Hepatitis B immunisation rates among infants in ethnic groups with high prevalences of hepatitis B surface antigen carriers. Oman KM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):293–6

Commentary: antenatal screening and targeting should be sufficient in some countries [comment] Mortimer PP, et al. **BMJ** 1997 Apr 5;314(7086):1036–7. Comment on: BMJ 1997 Apr 5;314(7086):1033–6.

Integration of hepatitis B vaccination into national immunisation programmes. Viral Hepatitis Prevention Board [see comments] Van Damme P, et al. **BMJ** 1997 Apr 5;314(7086):1033–6 (18 ref.). Comment in: BMJ 1997 Apr 5;314(7086):1036–7. Comment in: BMJ 1997 Jul 12;315(7100):121. Comment in: BMJ 1997 Jul 12;315(7100):121–2.

Lack of compliance with hepatitis B vaccination among Canadian STD clinic patients: candidates for an accelerated immunization schedule? Sellors J, et al. **Can J Public Health** 1997 May–Jun;88(3):210–1

School–based hepatitis B immunization program: follow–up of non–participants at first school clinic. Stewart P, et al. **Can J Public Health** 1997 May–Jun;88(3):192–6

Hepatitis B: diagnosis, prevention, and treatment. Gitlin N. **Clin Chem** 1997 Aug;43(8 Pt 2):1500–6 (55 ref.)

Understanding and enhancing compliance with the second dose of hepatitis B vaccine: a cohort analysis and a randomized controlled trial. Sellors J, et al. **CMAJ** 1997 Jul 15;157(2):143–8

Surface gene mutants of hepatitis B virus in infants who develop acute or chronic infections despite immunoprophylaxis. Hsu HY, et al. **Hepatology** 1997 Sep; 26(3):786–91

Humoral and cellular immune responses to hepatitis B vaccination in hepatitis B surface antigen–carrier children who cleared serum–hepatitis B surface antigen. Hsu HY, et al. **Hepatology** 1996 Dec;24(6):1355–60

ACOG committee opinion. Hepatitis B immunization for adolescents. Number 184, June 1997. Committee on Adolescent Health Care. American College of Obstetricians and Gynecologists. **Int J Gynaecol Obstet** 1997 Sep;58(3):341

Hepatitis B vaccination in adolescents: knowledge, perceived risk, and compliance. Moore–Caldwell SY, et al. **J Adolesc Health** 1997 Apr;20(4):294–9

Hepatitis B vaccination and infection among U.S. dentists, 1983–1992 [published erratum appears in J Am Dent Assoc 1996 Oct;127(10):1469–1470] Cleveland JL, et al. **J Am Dent Assoc** 1996 Sep;127(9):1385–90

Use of the hepatitis–B vaccine and infection with hepatitis B and C among orthopaedic surgeons. The American Academy of Orthopaedic Surgeons Serosurvey Study Committee. Shapiro CN, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1791–800

Detection of hepatitis B surface gene mutation in carrier children with or without immunoprophylaxis at birth. Lee PI, et al. **J Infect Dis** 1997 Aug;176(2):427–30

Inadequate hepatitis B vaccination of adolescents and adults at an urban community health center. Sharfstein J, et al. **J Natl Med Assoc** 1997 Feb;89(2):86–92

Seventh graders must have hepatitis B vaccine for school [news] **J Okla State Med Assoc** 1997 Jul–Aug;90(6):258

Familial failure of hepatitis B immunization. del Rosario JF, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):307–11

Serial changes in titers of antibody to hepatitis B surface antigen after immunization of infants born to mothers with hepatitis B e antigen. Fujisawa T, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):270–4

Hepatitis and hepatitis immunisation. Feely M. **J R Soc Health** 1997 Feb;117(1):41–6 (42 ref.)

From the Centers for Disease Control and Prevention. FDA approval for infants of a Haemophilus influenzae type b conjugate and hepatitis B (recombinant) combined vaccine. **JAMA** 1997 Feb 26;277(8):620–1

Vaccine against human hepatitis B. 1976 [classical article] [see comments] Buynak EB, et al. **JAMA** 1996 Dec 11; 276(22):1793–5. Comment in: JAMA 1996 Dec 11;276(22):1796–5.

The heritage of hepatitis B vaccine [comment] [see comments] Douglas RG Jr. **JAMA** 1996 Dec 11; 276(22):1796–8. Comment on: JAMA 1996 Dec 11;276(22):1793–5. Comment in: JAMA 1997 Apr 9;277(14):1124–5.

Perspectives on hepatitis B vaccination [letter; comment] Waisbren BA Sr. **JAMA** 1997 Apr 9;277(14):1124–5. Comment on: JAMA 1996 Dec 11;276(22):1796–8.

Hepatitis B immunisation in Singapore [letter] Goh KT. **Lancet** 1996 Nov 16;348(9038):1385–6

Malaria vaccine [letter; comment] Ruff T. **Lancet** 1996 Nov 16;348(9038):1378–9. Comment on: Lancet 1996 Sep 14;348(9029):701–7.

Morbidity from hepatitis B after introduction of nationwide immunisation in Italy [letter] Squarcione S, et al. **Lancet** 1997 Jul 12;350(9071):114

Hepatitis B in Australia: on course for universal vaccination [editorial; comment] Goldwater PN. **Med J Aust** 1996 Sep 16;165(6):300–1. Comment on: Med J Aust 1996 Sep 16;165(6):322–6.

Polyvalent vaccines and the national immunisation schedule [letter; comment] [see comments] Thompson SC. **Med J Aust** 1996 Sep 16;165(6):346–7. Comment on: Med J Aust 1996 Jul 1;165(1):59–60. Comment in: Med J Aust 1997 Jan 20;166(2):110–1.

FDA approval for infants of a Haemophilus influenzae type b conjugate and hepatitis B (recombinant) combined vaccine. **MMWR Morb Mortal Wkly Rep** 1997 Feb 7; 46(5):107–9

Universal hepatitis B vaccination in Taiwan and the incidence of hepatocellular carcinoma in children. Taiwan Childhood Hepatoma Study Group [see comments] Chang MH, et al. **N Engl J Med** 1997 Jun 26;336(26):1855–9. Comment in: N Engl J Med 1997 Jun 26;336(26):1906–7.

Vaccines to prevent viral hepatitis. Lemon SM, et al. **N Engl J Med** 1997 Jan 16;336(3):196–204 (117 ref.)

Prevention of primary liver cancer by immunization [editorial; comment] Zuckerman AJ. **N Engl J Med** 1997 Jun 26;336(26):1906–7. Comment on: N Engl J Med 1997 Jun 26;336(26):1855–9.

Prevention of hepatitis B in healthcare workers (HCW) [letter] Chew T. **N Z Med J** 1997 Jul 11;110(1047):258

Immunogenicity and efficacy of hepatitis B vaccination in Indian chronic renal failure patients on hemodialysis and after renal transplantation [letter] Krishnamurthy G, et al. **Nephron** 1996;74(2):424–5

Hepatitis B: recommendations for children/adolescents [see comments] **Nurse Pract** 1996 Sep;21(9):108, 111–3 (12 ref.) . Comment in: Nurse Pract 1996 Dec;21(12 Pt 1):13.

Hepatitis B vaccination and hepatocellular carcinoma in Taiwan. Lee CL, et al. **Pediatrics** 1997 Mar;99(3):351–3

Hepatitis B virus, the vaccine, and the control of primary cancer of the liver. Blumberg BS. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7121–5 (4 ref.)

Hepatitis B vaccination in the expanded programme of immunization. Mittal SK, et al. **Trop Gastroenterol** 1996 Jul–Sep;17(3):188–90

DNA-based immunization against hepatitis B surface antigen (HBsAg) in normal and HBsAg–transgenic mice. Davis HL, et al. **Vaccine** 1997 Jun;15(8):849–52

Vaccination campaign against hepatitis B for 12-year-old subjects in Italy. Stroffolini T, et al. **Vaccine** 1997 Apr; 15(5):583–5

The immunization status and level of knowledge about hepatitis B virus infection among Nigerian surgeons. Adebamowo CA, et al. **West Afr J Med** 1997 May–Jun; 16(2):93–6

Universal hepatitis B vaccinations [letter] Waisbren BA Sr. **Wis Med J** 1996 Mar;95(3):148

[Health Council report 'Protection against hepatitis B': an opportunity for effective prevention through cooperation] Schalm SW. **Ned Tijdschr Geneeskd** 1997 Feb 15; 141(7):315–7 (Eng. Abstr.) **(Dut)**

[Hepatitis B vaccination and booster—current recommendations] Grob PJ, et al. **Schweiz Monatsschr Zahnmed** 1996;106(2):150–8 **(Ger, Fre)**

[Immunization efficacy and tolerance of a tetravalent vaccine against diphtheria, tetanus, pertussis (acellular) and hepatitis B] Giammanco G, et al. **Ann Ig** 1997 May–Jun;9(3):209–13 **(Ita)**

[Common sense won, but the fight is not over! (letter)] Brattebø G. **Tidsskr Nor Laegeforen** 1997 Feb 10;117(4):561 **(Nor)**

[Vaccination against hepatitis B: current strategies and proposals for the future] Simó Miñana J, et al. **Aten Primaria** 1996 Feb 15;17(2):147–61 (151 ref.) **(Spa)**

[Advances in the campaign against hepatitis b] **Rev Panam Salud Publica** 1997 Apr;1(4):333–4 (Eng. Abstr.) **(Spa)**

ADMINISTRATION & DOSAGE

Hepatitis B vaccine booster dose: low-dose recombinant hepatitis B vaccines as a booster dose. Bryan JP, et al. **Am J Infect Control** 1997 Jun;25(3):215–22

Efficacy of a high and accelerated dose of hepatitis B vaccine in alcoholic patients: a randomized clinical trial. Rosman AS, et al. **Am J Med** 1997 Sep;103(3):217–22

Antibody level after hepatitis B vaccination in hemodialysis patients: influence of hepatitis C virus infection. Navarro JF, et al. **Am J Nephrol** 1996;16(2):95–7

Hepatitis B vaccine: current issues. Zannolli R, et al. **Ann Pharmacother** 1997 Sep;31(9):1059–67 (60 ref.)

Hepatitis B vaccine uptake among surgeons at a London teaching hospital: how well are we doing? [letter; comment] Johnson DS. **Ann R Coll Surg Engl** 1997 Mar;79(2):157. Comment on: Ann R Coll Surg Engl 1996 Sep;78(5):447–9.

Hepatitis B vaccine uptake among surgeons at a London teaching hospital: how well are we doing? [see comments] Smith ER, et al. **Ann R Coll Surg Engl** 1996 Sep;78(5):447–9 . Comment in: Ann R Coll Surg Engl 1997 Mar;79(2):157.

Long-term hepatitis B vaccine in infants born to hepatitis B e antigen positive mothers. Poovorawan Y, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Jul;77(1):F47–51

An adolescent hepatitis B immunisation program. The Preston experience. Howsam R, et al. **Aust Fam Physician** 1996 Mar;25(3):352–4

Integration of hepatitis B vaccination into national immunisation programmes. Alternative strategies must be considered before universal vaccination is adopted [letter; comment] Dunn J, et al. **BMJ** 1997 Jul 12;315(7100):121–2 . Comment on: BMJ 1997 Apr 5;314(7086):1033–6.

Liver cancer in Taiwan falls after universal hepatitis B vaccination [news] Mayor S. **BMJ** 1997 Jul 5;315(7099):7

Integration of hepatitis B vaccination into national immunisation programmes. Delivering vaccine to infants at risk is complex [letter; comment] Nesbitt A, et al. **BMJ** 1997 Jul 12;315(7100):121. Comment on: BMJ 1997 Apr 5;314(7086):1033–6.

Mistake in report: hepatitis B vaccination for drug misusers is recommended [letter] Polkinghorne J, et al. **BMJ** 1997 Jul 5;315(7099):61

Three quarters of one French prison population needed immunisation against hepatitis B [letter] Rotily M, et al. **BMJ** 1997 Jul 5;315(7099):61

Immune status and the immune response to hepatitis B virus vaccine in thalassemic patients after allogeneic bone marrow transplantation. Li Volti S, et al. **Bone Marrow Transplant** 1997 Jan;19(2):157–60

Complete seroconversion after vaccination against hepatitis B virus in hemodialysis patients [letter; comment] Radović MM, et al. **Clin Nephrol** 1997 Mar;47(3):206. Comment on: Clin Nephrol 1994 Feb;41(2):113–6. Comment on: Clin Nephrol 1996 Mar;45(3):180–2.

Impaired cytokine production by peripheral T lymphocytes in low responders to hepatitis B vaccination [letter] Yamashiki M, et al. **Clin Sci (Colch)** 1997 May;92(5):527–8

Hepatitis B vaccination results in 140 liver transplant recipients. Loinaz C, et al. **Hepatogastroenterology** 1997 Jan–Feb;44(13):235–8

Accelerated, low-dose, intradermal hepatitis B vaccine [letter] Contractor QQ, et al. **Indian J Gastroenterol** 1997 Jan;16(1):37

Hepatitis B vaccine [letter; comment] Karthikeyan G. **Indian Pediatr** 1995 Sep;32(9):1043–5. Comment on: Indian Pediatr 1995 Jun;32(6):715–8.

Granulocyte-macrophage colony-stimulating factor given as an adjuvant to persons not responding to hepatitis B vaccine [letter] Carlsson T, et al. **Infection** 1997 Mar–Apr; 25(2):129

Hepatitis B: community solutions [editorial] Culpepper L. **J Am Board Fam Pract** 1997 Sep–Oct;10(5):377–9

Hepatitis B status of Hmong patients. Gjerdingen DK, et al. **J Am Board Fam Pract** 1997 Sep–Oct;10(5):322–8

Hepatitis B immunization policy for India [letter] John TJ. **J Assoc Physicians India** 1996 Jul;44(7):509–10

A comparative trial of standard or high-dose S subunit recombinant hepatitis B vaccine versus a vaccine containing S subunit, pre-S1, and pre-S2 particles for revaccination of healthy adult nonresponders. Bertino JS Jr, et al. **J Infect Dis** 1997 Mar;175(3):678–81

MF59 adjuvant enhances the antibody response to recombinant hepatitis B surface antigen vaccine in primates. Traquina P, et al. **J Infect Dis** 1996 Dec;174(6):1168–75

From the Centers for Disease Control and Prevention. Immunization of adolescents. Recommendations of the Advisory Committee on Immunization Practices, the American Academy of Pediatrics, the American Academy of Family Physicians, and the American Medical Association. **JAMA** 1997 Jan 15;277(3):202–7

Should children with isolated anti-HBs or anti-HBc be immunized against hepatitis B virus? [letter] Duval B, et al. **JAMA** 1997 Oct 1;278(13):1064

Hepatitis B virus clearance by transplantation of bone marrow from hepatitis B immunised donor [letter] [see comments] Brugger SA, et al. **Lancet** 1997 Apr 5; 349(9057):996–7. Comment in: Lancet 1997 May 31;349(9065):1626–7.

Is vaccination of donor adequate for clearance of hepatitis B virus after bone-marrow transplantation? [letter; comment] Lau GK, et al. **Lancet** 1997 May 31; 349(9065):1626–7. Comment on: Lancet 1997 Apr 5;349(9057):996–7.

Prevention of perinatal hepatitis B through enhanced case management—Connecticut, 1994–95, and the United States, 1994. **MMWR Morb Mortal Wkly Rep** 1996 Jul 12; 45(27):584–7

Immunization of adolescents. Recommendations of the Advisory Committee on Immunization Practices, the American Academy of Pediatrics, the American Academy of Family Physicians, and the American Medical Association. **MMWR Morb Mortal Wkly Rep** 1996 Nov 22;45(RR-13):1–16

Intradermal versus intramuscular hepatitis b re-vaccination in non-responsive chronic dialysis patients: a prospective randomized study with cost-effectiveness evaluation. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Jun; 12(6):1204–11

Effects of recombinant interleukin-2 and revaccination for hepatitis B in previously vaccinated, non-responder, chronic uraemic patients. Collaborative Group of Girona. Mauri JM, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):729–32

Hepatitis B vaccination [letter; comment] Paynter HE, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):623–4. Comment on: Nephrol Dial Transplant 1996 Aug;11(8):1559–63.

Responsiveness to hepatitis B vaccine in immunocompromised patients by doubling the dose scheduling. Mitwalli A. **Nephron** 1996;73(3):417–20

Hepatitis B immunization/prophylaxis: recommendations for adults/older adults. **Nurse Pract** 1996 Dec;21(12 Pt 1):64, 67–70 (8 ref.)

Clinical guidelines: hepatitis B [letter; comment] DeYoung L. **Nurse Pract** 1996 Dec;21(12 Pt 1):13. Comment on: Nurse Pract 1996 Sep;21(9):108, 111–3.

Attitudes and educational practices of obstetric providers regarding infant hepatitis B vaccination. Zola J, et al. **Obstet Gynecol** 1997 Jan;89(1):61–4

Implementation of Department of Health guidelines for hepatitis B vaccination: a regional audit of NHS occupational health policies and procedures. Harrison J. **Occup Med (Oxf)** 1997 Jan;47(1):5–10

Comparative safety and immunogenicity of two recombinant hepatitis B vaccines given to infants at two, four and six months of age. Greenberg DP, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):590–6

Inactivated poliovirus vaccine alone or sequential inactivated and oral poliovirus vaccine in two-, four- and six-month-old infants with combination Haemophilus influenzae type b/hepatitis B vaccine. Halsey NA, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):675–9

Hepatitis B vaccination in children with thalassemia, hemophilia and cancer [letter] Kavakli K, et al. **Pediatr Infect Dis J** 1996 Dec;15(12):1140–1

Complete success of intradermal vaccination against hepatitis B in advanced chronic renal failure and hemodialysis patients. Vlassopoulos D, et al. **Ren Fail** 1997 May; 19(3):455–60

Temporary deferral of blood donors after administration of hepatitis B vaccine [letter; comment] Otağ F, et al. **Transfusion** 1997 Aug;37(8):880. Comment on: Transfusion 1995 Jun;35(6):475–7. Comment on: Transfusion 1996 Apr;36(4):386.

Immunogenicity and reactogenicity of a combined hepatitis A and B vaccine in young adults. Bruguera M, et al. **Vaccine** 1996 Oct;14(15):1407–11

Randomized, comparative trial of 20 micrograms vs 40 micrograms Engerix B vaccine in hepatitis B vaccine non-responders. Goldwater PN. **Vaccine** 1997 Mar; 15(4):353–6

Safety and immunogenicity of a recombinant hepatitis B vaccine administered to infants at 2, 4 and 6 months of age. The Kaiser-UCLA Vaccine Study Group. Greenberg DP, et al. **Vaccine** 1996 Jun;14(8):811–6

Hepatitis B vaccine administration: comparison between jet-gun and syringe and needle. Mathef C, et al. **Vaccine** 1997 Mar;15(4):402–4

Successful nucleic acid based immunization of newborn chimpanzees against hepatitis B virus. Prince AM, et al. **Vaccine** 1997 Jun;15(8):916–9

The Viral Hepatitis Prevention Board and earlier efforts at hepatitis B control [letter] Wilde H. **Vaccine** 1996 Jun; 14(8):837–8

[Prevention of hepatitis B] Jepsen JR, et al. **Ugeskr Laeger** 1997 Jun 16;159(25):3970–2 **(Dan)**

[Combined prevention of hepatitis A and B] **Fortschr Med** 1997 May 10;115(13):18 **(Ger)**

[Hepatitis B vaccination. Neglected vaccination is not ethically defensible anymore!] Eisenburg J. **Fortschr Med** 1997 Apr 10;115(10):25 **(Ger)**

[Because of its complications prevention is vital. Hepatitis B vaccination is available even for infants (interview by Dr. Rolf Rolf-Günther Sommer] Hallauer JF. **Fortschr Med** 1997 Mar 20;115(8):43–4 **(Ger)**

[Hepatitis B vaccination of children and adolescents] Jilg W. **Fortschr Med** 1997 Apr 10;115(10):26, 29–32, 33 (Eng. Abstr.) **(Ger)**

[Hepatitis B vaccination—an interdisciplinary responsibility (news)] Leinmüller R. **Fortschr Med** 1997 Feb 28; 115(6):16–7 **(Ger)**

[When are which vaccinations indicated? Basic immunization—polio-diphtheria-hepatitis B] Maass G. **Fortschr Med** 1996 Nov 20;114(32):17–20 **(Ger)**

[Preventive vaccination of adolescents: is consent by parents always necessary?] Nassauer KA. **Fortschr Med** 1997 Apr 10;115(10):34, 37–8 **(Ger)**

[Non- and low-response after preventive hepatitis B vaccination] Hasselhorn HM, et al. **Gesundheitswesen** 1997 May;59(5):321–8 (Eng. Abstr.) **(Ger)**

[Child and adolescent hepatitis B vaccination—responsibilities of the public health service] Nassauer KA. **Gesundheitswesen** 1996 Nov;58(11):616–7 (Eng. Abstr.) **(Ger)**

[Hepatitis B prevention at a school for mentally handicapped patients] Rohling I. **Gesundheitswesen** 1996 Aug–Sep; 58(8–9):454–8 (Eng. Abstr.) **(Ger)**

[Preventive vaccination for viral hepatitis] Jilg W. **Z Gastroenterol** 1997 Jul;35(7):585–90 (18 ref.) (Eng. Abstr.) **(Ger)**

[Vaccination of medical students against hepatitis B (letter)] Aavitsland P, et al. **Tidsskr Nor Laegeforen** 1997 Mar 10; 117(7):1004 **(Nor)**

[Anti-hepatitis B and anti-Haemophilus influenzae type b vaccines] Dias PG. **Acta Med Port** 1997 Feb–Mar; 10(2–3):129–38 (162 ref.) (Eng. Abstr.) **(Por)**

[Pre- and postgestational vaccination] Figueroa-Damián R. **Ginecol Obstet Mex** 1996 Jul;64:310–5 (27 ref.) (Eng. Abstr.) **(Spa)**

[Measuring the effectiveness of hepatitis B vaccination (letter; comment)] Peiró S, et al. **Med Clin (Barc)** 1996 Jul 6; 107(6):238–9. Comment on: Med Clin (Barc) 1995 Feb 4;104(4):130–6. **(Spa)**

[Outbreak of hysteria following hepatitis B vaccination (letter; comment)] Vega E, et al. **Med Clin (Barc)** 1997 Apr 26;108(16):638. Comment on: Med Clin (Barc) 1996 Jun 1;107(1):1–3. **(Spa)**

ADVERSE EFFECTS

Lichenoid reaction to hepatitis B vaccination. Saywell CA, et al. **Australas J Dermatol** 1997 Aug;38(3):152–4 (13 ref.)

Polyarthritis associated with hepatitis B vaccination [letter] Bracci M, et al. **Br J Rheumatol** 1997 Feb;36(2):300–1

Liver inflammation and acute respiratory distress syndrome in a patient receiving hepatitis B vaccine: a possible relationship? Ranieri VM, et al. **Intensive Care Med** 1997 Jan;23(1):119–21

Anetoderma after hepatitis B immunization in two siblings. Daoud MS, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):779–80

Leukoencephalitis after recombinant hepatitis B vaccine [letter] Manna R, et al. **J Hepatol** 1996 Jun;24(6):764–5

Acute Myelitis after hepatitis B vaccination. Song HK, et al. **J Korean Med Sci** 1997 Jun;12(3):249–51

Hair loss after routine immunizations. Wise RP, et al. **JAMA** 1997 Oct 8;278(14):1176–8

The diabetes epidemic and the hepatitis B vaccines [letter] Classen JB. **N Z Med J** 1996 Sep 27;109(1030):366

Systemic lupus erythematosus following hepatitis B vaccine [letter] Guiserix J. **Nephron** 1996;74(2):441

Mental nerve neuropathy as a result of hepatitis B vaccination. Maillefert JF, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Jun;83(6):663–4

Recombinant hepatitis B vaccination of neonates and infants: emerging safety data from the Vaccine Adverse Event Reporting System. Niu MT, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):771–6

Safety and immunogenicity of concurrent administration of measles-mumps-rubella-varicella vaccine and PedvaxHIB vaccines in healthy children twelve to eighteen months old. The MMRV Study Group. Reuman PD, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):662-7

Vaccine injury--no reports [letter] Marcuse EK, et al. **Pediatrics** 1997 Jan;99(1):144

An outbreak of vaccination panic [letter] D'Argenio P, et al. **Vaccine** 1996 Sep;14(13):1289-90

Safety and immunogenicity of a novel mammalian cell-derived recombinant hepatitis B vaccine containing Pre-S1 and Pre-S2 antigens in children. Raz R, et al. **Vaccine** 1996 Feb;14(3):207-11

Expanded programme on immunization (EPI). Lack of evidence that hepatitis B vaccine causes multiple sclerosis. **Wkly Epidemiol Rec** 1997 May 23;72(21):149-52 **(Eng, Fre)**

[Fluctuant perception hearing loss after hepatitis B vaccine] Bonfils P, et al. **Ann Otolaryngol Chir Cervicofac** 1996; 113(6):359-61 (Eng. Abstr.) **(Fre)**

[Skin diseases related to hepatitis B vaccine (letter)] Noble JP, et al. **Gastroenterol Clin Biol** 1997;21(1):87 **(Fre)**

[A case of segmentary unilateral occlusion of the central retinal vein following hepatitis B vaccination (letter)] Berkman N. **Presse Med** 1997 Apr 26;26(14):670 **(Fre)**

[Bilateral neuro-papillitis after hepatitis B vaccination (letter)] Berkman N, et al. **Presse Med** 1996 Sep 28; 25(28):1301 **(Fre)**

[Lichen planus after hepatitis B vaccination. 3 new cases (letter)] Gisserot O, et al. **Presse Med** 1997 May 17; 26(16):760 **(Fre)**

[Occlusion of the central retinal vein after vaccination against viral hepatitis B with recombinant vaccines. 4 cases] Granel B, et al. **Presse Med** 1997 Feb 1;26(2):62-5 (Eng. Abstr.) **(Fre)**

[Acute aseptic meningitis after hepatitis B vaccination (letter)] Heinzlef O, et al. **Presse Med** 1997 Mar 8;26(7):328 **(Fre)**

[Meningeal reaction after vaccination against hepatitis B (letter)] Marsaudon E, et al. **Presse Med** 1996 Oct 26; 25(32):1561-2 **(Fre)**

[Erosive polyarthritis triggered by vaccination against hepatitis B (letter)] Soubrier M, et al. **Presse Med** 1997 Feb 1;26(2):75 **(Fre)**

[Erosive nodular rheumatoid arthritis triggered by hepatitis B vaccination (letter)] Treves R, et al. **Presse Med** 1997 Apr 26;26(14):670 **(Fre)**

[Is hepatitis B vaccination a new cause of necrotizing vasculitis? (letter)] Kerleau JM, et al. **Rev Med Interne** 1997;18(6):491-2 **(Fre)**

ANALYSIS

Reversed-phase high-performance liquid chromatographic study of thimerosal stability in Cuban recombinant hepatitis B vaccine. Tleugabulova D, et al. **J Chromatogr A** 1996 Apr 5;729(1-2):219-27

ECONOMICS

An economic evaluation of universal vaccination against hepatitis B virus. Fenn P, et al. **J Infect** 1996 May; 32(3):197-204

[Confusing games of public insurance with hepatitis B vaccinations (interview by Dr. rer. nat. Anita Schweiger)] Eichhorn R. **Fortschr Med** 1997 Apr 10;115(10):41 **(Ger)**

GENETICS

[The prospects for using the genetically engineered surface antigen of the hepatitis B virus (HBsAg) expressed by recombinant poxvirus strains as the basis for vaccines against hepatitis B] Zheleznova NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct; (5):49-53 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Reduced immune response to hepatitis B vaccine in children with insulin dependent diabetes. Fiçicioğlu C, et al. **Acta Paediatr Jpn** 1995 Dec;37(6):687-90

Western blot analysis of the reactivity between envelope proteins of hepatitis B viruses from Brazilian carriers and antibodies raised against recombinant hepatitis B vaccines. De Castro L, et al. **Acta Virol** 1996 Nov-Dec;40(5-6):251-8

Hepatitis B virus core-preS2 particles expressed by recombinant vaccinia virus. Nemecková S, et al. **Acta Virol** 1996 Nov-Dec;40(5-6):273-9

The influence of nutritional status, dialysis adequacy, and residual renal function on the response to hepatitis B vaccination in peritoneal dialysis patients. Dacko C, et al. **Adv Perit Dial** 1996;12:315-7

Does the response to hepatitis B vaccination predict CAPD-associated infections? Holley JL. **Adv Perit Dial** 1996;12:218-20

Prospective analysis of the factors influencing the antibody response to hepatitis B vaccine in hemodialysis patients. Peces R, et al. **Am J Kidney Dis** 1997 Feb;29(2):239-45

Immunogenicity of recombinant hepatitis B vaccine among infants of mothers with active schistosomiasis. Bassily S, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):197-9

Biological parameters influencing the immunological response to plasma derived and recombinant hepatitis B vaccines. Honorati MC, et al. **Ann Ist Super Sanita** 1996; 32(3):369-74

Hepatitis B vaccine: current issues. Zannolli R, et al. **Ann Pharmacother** 1997 Sep;31(9):1059-67 (60 ref.)

Immunogenicity of a recombinant hepatitis B vaccine in adults. Bock HL, et al. **Arch Intern Med** 1996 Oct 28; 156(19):2226-31

Immune response to a new hepatitis B vaccine in healthcare workers who had not responded to standard vaccine: randomised double blind dose-response study. Zuckerman JN, et al. **BMJ** 1997 Feb 1;314(7077):329-33

Complete seroconversion after vaccination against hepatitis B virus in hemodialysis patients [letter; comment] Radović MM, et al. **Clin Nephrol** 1997 Mar;47(3):206. Comment on: Clin Nephrol 1994 Feb;41(2):113-6. Comment on: Clin Nephrol 1996 Mar;45(3):180-2.

Higher response rate to hepatitis B vaccination observed in chronic hemodialysis patients [letter] Swan AM, et al. **Clin Nephrol** 1997 Mar;47(3):207-8

Successful immune response to a recombinant hepatitis B vaccine in young patients with insulin-dependent diabetes mellitus. Marseglia GL, et al. **Diabet Med** 1996 Jul; 13(7):630-3

Hepatitis B vaccination in diabetic patients. Randomized trial comparing recombinant vaccines containing and not containing pre-S2 antigen. Douvin C, et al. **Diabetes Care** 1997 Feb;20(2):148-51

Immunogenicity and reactogenicity of a combined DTPw-hepatitis B vaccine in Lithuanian infants. Usonis V, et al. **Eur J Pediatr** 1996 Mar;155(3):189-93

Molecular analysis of the modulatory factors of the response to HBsAg in mice as an approach to HBV vaccine enhancement. Bouige P, et al. **FEMS Immunol Med Microbiol** 1996 Jan;13(1):71-9

Identification of an epitope for T-cells correlated with antibody response to hepatitis B surface antigen in vaccinated humans. Min WP, et al. **Hum Immunol** 1996 Apr;46(2):93-9

Safety and immunogenicity in humans of an attenuated Salmonella typhi vaccine vector strain expressing plasmid-encoded hepatitis B antigens stabilized by the Asd-balanced lethal vector system. Tacket CO, et al. **Infect Immun** 1997 Aug;65(8):3381-5

Granulocyte-macrophage colony-stimulating factor given as an adjuvant to persons not responding to hepatitis B vaccine [letter] Carlsson T, et al. **Infection** 1997 Mar-Apr; 25(2):129

DNA vaccination with plasmids encoding the intracellular (HBcAg) or secreted (HBeAg) form of the core protein of hepatitis B virus primes T cell responses to two overlapping Kb- and Kd-restricted epitopes. Kuhröber A, et al. **Int Immunol** 1997 Aug;9(8):1203-12

Response to hepatitis B vaccination in a primary care setting: influence of HIV infection, CD4+ lymphocyte count and vaccination schedule. Wong EK, et al. **Int J STD AIDS** 1996 Nov-Dec;7(7):490-4

Virus-like particles induce MHC class I-restricted T-cell responses. Lessons learned from the hepatitis B small surface antigen. Schirmbeck R, et al. **Intervirology** 1996; 39(1-2):111-9

Vaccine-induced hepatitis B surface antigen positivity in adult hemodialysis patients: incidental and surveillance data. Janzen L, et al. **J Am Soc Nephrol** 1996 Aug; 7(8):1228-34

The hepatitis B virus-specific CTL responses induced in humans by lipopeptide vaccination are comparable to those elicited by acute viral infection. Livingston BD, et al. **J Immunol** 1997 Aug 1;159(3):1383-92

Clinical development of a combined diphtheria, tetanus, acellular pertussis, and hepatitis B vaccine in Italy. Faldella G, et al. **J Infect Dis** 1996 Nov;174 Suppl 3:S298-301

Immunogenicity of two doses of yeast recombinant hepatitis B vaccine in healthy older adults. Gellin BG, et al. **J Infect Dis** 1997 Jun;175(6):1494-7

Infectivity and pathogenicity in chimpanzees of a surface gene mutant of hepatitis B virus that emerged in a vaccinated infant. Ogata N, et al. **J Infect Dis** 1997 Mar; 175(3):511-23

MF59 adjuvant enhances the antibody response to recombinant hepatitis B surface antigen vaccine in primates. Traquina P, et al. **J Infect Dis** 1996 Dec;174(6):1168-75

Nonresponse to hepatitis B vaccines and the kinetics of anti-HBs production. Zuckerman JN. **J Med Virol** 1996 Dec;50(4):283-8 (62 ref.)

Further observations on the immune response to recombinant hepatitis B vaccine after administration to aboriginal and Torres Strait Island children. Hanna JN, et al. **J Paediatr Child Health** 1997 Feb;33(1):67-70

Immune response to hepatitis B virus vaccine in 1-year-old preterm and term infants. Belson A, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):252-5

Modulation of immune response to rDNA hepatitis B vaccination by psychological stress. Jabaaij L, et al. **J Psychosom Res** 1996 Aug;41(2):129-37

The effect of granulocyte-macrophage colony-stimulating factor (GM-CSF) on hepatitis B vaccination in haemodialysis patients. Hess G, et al. **J Viral Hepat** 1996 May;3(3):149-53

Reactogenicity and immunogenicity of a new recombinant hepatitis B vaccine containing Pre S antigens: a preliminary report. Hourvitz A, et al. **J Viral Hepat** 1996 Jan;3(1):37-42

Improvement of hepatitis B virus DNA vaccines by plasmids coexpressing hepatitis B surface antigen and interleukin-2. Chow YH, et al. **J Virol** 1997 Jan;71(1):169-78

Characterization of T-cell response to woodchuck hepatitis virus core protein and protection of woodchucks from infection by immunization with peptides containing a T-cell epitope. Menne S, et al. **J Virol** 1997 Jan;71(1):65-74

Characterization of humoral and CD4+ cellular responses after genetic immunization with retroviral vectors expressing different forms of the hepatitis B virus core and e antigens. Sällberg M, et al. **J Virol** 1997 Jul; 71(7):5295-303

Success of mass vaccination of infants against hepatitis B [letter; comment] Durand AM, et al. **JAMA** 1996 Dec 11; 276(22):1802-3. Comment on: JAMA 1996 Sep 18;276(11):906-8.

Immunogenicity of hepatitis B vaccine with pre-S1, pre-S2 and S antigens [letter] Dhawan PS, et al. **Natl Med J India** 1996 Jul-Aug;9(4):201

Responsiveness to hepatitis B vaccine in immunocompromised patients by doubling the dose scheduling. Mitwalli A. **Nephron** 1996;73(3):417-20

Comparison study of the immunogenicity and safety of 5- and 10-microgram dosages of a recombinant hepatitis B vaccine in healthy infants. Goldfarb J, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):764-7

Comparison study of the immunogenicity and safety of 5- and 10-microgram dosages of a recombinant hepatitis B vaccine in healthy children. Goldfarb J, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):768-71

Safety and immunogenicity of a bivalent Haemophilus influenzae type b/hepatitis B vaccine in healthy infants. Hib-HB Vaccine Study Group. West DJ, et al. **Pediatr Infect Dis J** 1997 Jun;16(6):593-9

Safety and immunogenicity of a novel mammalian cell-derived recombinant hepatitis B vaccine containing Pre-S1 and Pre-S2 antigens in neonates. Yerushalmi B, et al. **Pediatr Infect Dis J** 1997 Jun;16(6):587-92

Immunogenicity of hepatitis B vaccine in preterm infants. Kim SC, et al. **Pediatrics** 1997 Apr;99(4):534-6

Low seroconversion with hepatitis B vaccination in peritoneal dialysis patients. Khan AN, et al. **Perit Dial Int** 1996 Jul-Aug;16(4):370-3

Vaccination against hepatitis B virus in children and adolescents in a pediatric hospital. Catania G, et al. **Recenti Prog Med** 1996 Jun;87(6):271-4

Anti-HBs responses in children vaccinated with different schedules of either plasma-derived or HBV DNA recombinant vaccine. Da Villa G, et al. **Res Virol** 1997 Mar-Apr;148(2):109-14

Contribution of human leukocyte antigens to the antibody response to hepatitis B vaccination. McDermott AB, et al. **Tissue Antigens** 1997 Jul;50(1):8-14

Immune response to a combined hepatitis B, diphtheria, tetanus and whole-cell pertussis vaccine administered to infants at 2, 4 and 6 months of age. Aristegui J, et al. **Vaccine** 1997 Jan;15(1):7-9

Immunogenicity and reactogenicity of a combined hepatitis A and B vaccine in young adults. Bruguera M, et al. **Vaccine** 1996 Oct;14(15):1407-11

Hepatitis B vaccine in hemodialysis patients with hepatitis C viral infection. Cheng CH, et al. **Vaccine** 1997 Aug-Sep; 15(12-13):1353-7

Two different dosages of yeast derived recombinant hepatitis B vaccines: a comparison of immunogenicity. Chiaramonte M, et al. **Vaccine** 1996 Feb;14(2):135-7

Integration of hepatitis B vaccination into the expanded programme on immunization in Chonburi and Chiangmai provinces, Thailand. Chunsuttiwat S, et al. **Vaccine** 1997 Apr-May;15(6-7):769-74

Booster immunization of low- and non-responders after a standard three dose hepatitis B vaccine schedule--results of a post-marketing surveillance. Clemens R, et al. **Vaccine** 1997 Mar;15(4):349-52

Persistence of anti-HBs in children vaccinated against viral hepatitis B in the first year of life: follow-up at 5 and 10 years. Da Villa G, et al. **Vaccine** 1996 Nov;14(16):1503-5

Hepatitis B component does not interfere with the immune response to diphtheria, tetanus and whole-cell Bordetella pertussis components of a quadrivalent (DTPw-HB) vaccine: a controlled trial in healthy infants. Diez-Delgado J, et al. **Vaccine** 1997 Aug-Sep;15(12-13):1418-22

Randomized, comparative trial of 20 micrograms vs 40 micrograms Engerix B vaccine in hepatitis B vaccine non-responders. Goldwater PN. **Vaccine** 1997 Mar; 15(4):353-6

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of HBV DNA. Lazizi Y, et al. **Vaccine** 1997 Aug;15(11):1194-9

Immunoresponse to hepatitis B vaccination and adherence campaign among injecting drug users. Lugoboni F, et al. **Vaccine** 1997 Jun;15(9):1014-6

Ten-year follow-up study of neonatal hepatitis B immunization: are booster injections indicated? Resti M, et al. **Vaccine** 1997 Aug-Sep;15(12-13):1338-40

Hepatitis B vaccine immunoresponsiveness in adolescents: a revaccination proposal after primary vaccination. Simó Miñana J, et al. **Vaccine** 1996 Feb;14(2):103-6

Controlled release microparticles as a single dose hepatitis B vaccine: evaluation of immunogenicity in mice. Singh M, et al. **Vaccine** 1997 Apr;15(5):475-81

Evaluation of tolerability and antibody response after recombinant human granulocyte-macrophage

colony-stimulating factor (rhGM-CSF) and a single dose of recombinant hepatitis B vaccine. Tarr PE, et al. **Vaccine** 1996 Sep;14(13):1199-204

Vaccine induced immunologic memory for hepatitis B surface antigen: implications for policy on booster vaccination. West DJ, et al. **Vaccine** 1996 Aug; 14(11):1019-27 (78 ref.)

[Seven-year follow-up in pupils immunized with hepatitis B vaccine and its revaccination] Li X, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):151-3 (Eng. Abstr.) **(Chi)**

[Evaluation of vaccine potency against viral hepatitis B performed with HB-vax II vaccine in a group with an increased risk for hepatitis B] Leśnik J, et al. **Pol Merkuriusz Lek** 1996 Oct;1(4):249-51 (Eng. Abstr.) **(Pol)**

[Reactivity to hepatitis B vaccination (HBV) in patients with uremia: association with defined HLA antigen configuration and complement protein allotypes C4A, C4B and B factor (Bf)] Stachowski J, et al. **Przegl Lek** 1995; 52(9):445-54 (Eng. Abstr.) **(Pol)**

[The prospects for using the genetically engineered surface antigen of the hepatitis B virus (HBsAg) expressed by recombinant poxvirus strains as the basis for vaccines against hepatitis B] Zheleznova NV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Sep-Oct; (5):49-53 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of hepatitis B virus DNA. Lazizi Y, et al. **Vaccine** 1997 Jul;15(10):1095-100

THERAPEUTIC USE

Recombinant vaccinia virus expressing Pre-S/S protein of duck hepatitis B virus and its preliminary use for treatment of persistent infection. Ma ZM, et al. **Acta Virol** 1996 Nov-Dec;40(5-6):311-4

Protection provided by hepatitis B vaccine in a Yupik Eskimo population--results of a 10-year study. Wainwright RB, et al. **J Infect Dis** 1997 Mar;175(3):674-7

Response to hepatitis B vaccination in a mental handicap hospital [letter] Scull D, et al. **J Intellect Disabil Res** 1996 Oct;40 (Pt 5):485-6

A simplified schedule to integrate the hepatitis B vaccine into an expanded program of immunization in endemic countries. Lee CY, et al. **J Pediatr** 1997 Jun;130(6):981-6

High rate of seroconversion following administration of a single supplementary dose of recombinant hepatitis B vaccine in Iranian healthy nonresponder neonates. Shokri F, et al. **Med Microbiol Immunol (Berl)** 1997 Mar; 185(4):231-5

Hepatitis B vaccine immunoresponsiveness in adolescents: a revaccination proposal after primary vaccination. Simó Miñana J, et al. **Vaccine** 1996 Feb;14(2):103-6

[Results of controlled tests of an experimental recombinant live vaccine against hepatitis B] Ikoev VN, et al. **Vopr Virusol** 1997 May-Jun;42(3):135-7 (Eng. Abstr.) **(Rus)**

[Russian recombinant vaccine against hepatitis B (results of controlled trials)] Pavlova LI, et al. **Vopr Virusol** 1996 Jul-Aug;41(4):170-2 (Eng. Abstr.) **(Rus)**

HEPATITIS B VIRUS

see related

HEPATITIS B SURFACE ANTIGENS

Relationship between antigenicity and immunogenicity of chimeric hepatitis B virus core particles carrying HIV type 1 epitopes. Grene E, et al. **AIDS Res Hum Retroviruses** 1997 Jan 1;13(1):41-51

Hepatitis B virus carriers in the treatment of malignant lymphoma: an epidemiological study in Japan. Kumagai K, et al. **Ann Oncol** 1997;8 Suppl 1:107-9

Hepatitis B and C viruses and primary liver cancer. Brechot C. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):335-73 (237 ref.)

A fluorescence and CD study on the interaction of synthetic lipophilic hepatitis B virus preS(120-145) peptide analogues with phospholipid vesicles. Cajal Y, et al. **Biopolymers** 1996 May;38(5):607-18

Plasma antioxidant vitamins, chronic hepatitis B virus infection and urinary aflatoxin B1-DNA adducts in healthy males. Yu MW, et al. **Carcinogenesis** 1997 Jun;18(6):1189-94

Interactions between alcohol and hepatitis viruses in the liver. Brechot C, et al. **Clin Lab Med** 1996 Jun;16(2):273-87 (135 ref.)

Impairment of the metabolism of dipyrone in asymptomatic carriers of the hepatitis B virus. Levy M, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):6-14

Structural properties of the putative fusion peptide of hepatitis B virus upon interaction with phospholipids. Circular dichroism and Fourier-transform infrared spectroscopy studies. Rodríguez-Crespo I, et al. **Eur J Biochem** 1996 Dec 1;242(2):243-8

Human histocompatibility leukocyte antigen-binding supermotifs predict broadly cross-reactive cytotoxic T lymphocyte responses in patients with acute hepatitis. Bertoni R, et al. **J Clin Invest** 1997 Aug 1;100(3):503-13

Hepatitis B virus and liver transplantation: concepts in antiviral prophylaxis. Grellier L, et al. **J Viral Hepat** 1997; 4 Suppl 1:111-6 (48 ref.)

From the Centers for Disease Control and Prevention. Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices--Ohio and New York City, 1996. **JAMA** 1997 Apr 9;277(14):1106-7

Histological improvement in patients with chronic hepatitis B virus infection treated with lamivudine. Honkoop P, et al. **Liver** 1997 Apr;17(2):103-6

Are alanine aminotransferase, hepatitis B virus DNA or IgM antibody to hepatitis B core antigen serum levels predictors of histological grading in chronic hepatitis B? Zavaglia C, et al. **Liver** 1997 Apr;17(2):83-7

Nosocomial hepatitis B virus infection associated with reusable fingerstick blood sampling devices--Ohio and New York City, 1996. **MMWR Morb Mortal Wkly Rep** 1997 Mar 14;46(10):217-21

Variability in hepatitis B virus DNA: phylogenetic, epidemiological and clinical implications. Kidd-Ljunggren K. **Scand J Infect Dis** 1996;28(2):111-6 (57 ref.)

Beneficial effect of lamivudine pre- and post-liver transplantation for hepatitis B infection. Ben-Ari Z, et al. **Transplant Proc** 1997 Sep;29(6):2687-8

Should hepatitis B immunoglobulin therapy be discontinued after HBV reinfection following liver transplantation? Safadi R, et al. **Transplant Proc** 1997 Sep;29(6):2680-3

Natural course of de novo hepatitis B virus infection in liver transplant recipients. Safadi R, et al. **Transplant Proc** 1997 Sep;29(6):2677-9

CHEMISTRY

Serial analysis of hepatitis B virus core nucleotide sequence of patients with acute exacerbation during chronic infection. Okumura A, et al. **J Med Virol** 1996 Jun; 49(2):103-109

Folding and assembly of hepatitis B virus core protein: a new model proposal. Bringas R. **J Struct Biol** 1997 Apr; 118(3):189-96

Targeted delivery of antisense DNA in woodchuck hepatitis virus-infected woodchucks. Bartholomew RM, et al. **J Viral Hepat** 1995;2(6):273-8

Analysis of hepatitis B virus precore variants in hepatitis B e antibody-positive patients treated with prednisone plus interferon. Lopez-Alcorocho JM, et al. **J Viral Hepat** 1995; 2(6):279-84

Colourimetric point mutation assay: for detection of precore mutants of hepatitis B. Ballard AL, et al. **J Virol Methods** 1997 Sep;67(2):143-52

What technique should be used for routine detection and quantification of HBV DNA in clinical samples? Pawlotsky JM, et al. **J Virol Methods** 1997 May;65(2):245-53

New quantitative assay of hepatitis B and C viruses by competitive PCR using alternative internal sequences. Payan C, et al. **J Virol Methods** 1997 May;65(2):299-305

A revised secondary structure model for the 3'-end of hepatitis B virus pregenomic RNA. Kidd AH, et al. **Nucleic Acids Res** 1996 Sep 1;24(17):3295-301

Localization of the C terminus of the assembly domain of hepatitis B virus capsid protein: implications for morphogenesis and organization of encapsidated RNA. Zlotnick A, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9556-61

CLASSIFICATION

Sequence analysis of pre-S/S gene of hepatitis B virus strains of genotypes A, D, and F isolated in Brazil. Moraes MT, et al. **Arch Virol** 1996;141(9):1767-73

DRUG EFFECTS

Interferon-omega suppresses hepatitis B surface antigen production in human hepatoma cell line. Hajnická V, et al. **Acta Virol** 1996 Sep;40(4):221-2

Specific inhibition of hepatitis b virus gene expression by an antisense oligonucleotide in vitro. Yao ZQ, et al. **Acta Virol** 1995 Sep;39(4):227-230

Inhibition of hepatitis B virus in vitro by antisense oligonucleotides. Yao ZQ, et al. **Acta Virol** 1996 Feb; 40(1):35-9

Subcutaneously administered recombinant human beta-interferon in the treatment of chronic hepatitis B virus infection. Guan R, et al. **Aliment Pharmacol Ther** 1996 Oct; 10(5):807-14

Effects of lamivudine on replication of hepatitis B virus in HIV-infected men. Benhamou Y, et al. **Ann Intern Med** 1996 Nov 1;125(9):705-12

Inhibition of hepatitis B virus by a novel L-nucleoside, 2'-fluoro-5-methyl-beta-L-arabinofuranosyl uracil. Balakrishna Pai S, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):380-6

(-)-cis-5-fluoro-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cytosine (524W91) inhibits hepatitis B virus replication in primary human hepatocytes. Condreay LD, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):520-3

Identification of BMS-200475 as a potent and selective inhibitor of hepatitis B virus. Innaimo SF, et al. **Antimicrob Agents Chemother** 1997 Jul;41(7):1444-8

Penciclovir is a selective inhibitor of hepatitis B virus replication in cultured human hepatoblastoma cells. Korba BE, et al. **Antimicrob Agents Chemother** 1996 May; 40(5):1282-4

Inducible expression of human hepatitis B virus (HBV) in stably transfected hepatoblastoma cells: a novel system for screening potential inhibitors of HBV replication. Ladner SK, et al. **Antimicrob Agents Chemother** 1997 Aug; 41(8):1715-20

Inhibition of replication of hepatitis B virus by cytallene in vitro. Zhu YL, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1755-60

Suppressive effects of destruxin B on hepatitis B virus surface antigen gene expression in human hepatoma cells. Chen HC, et al. **Antiviral Res** 1997 May;34(3):137-44

Mechanisms for the anti-hepatitis B virus activity and mitochondrial toxicity of fialuridine (FIAU). Colacino JM. **Antiviral Res** 1996 Mar;29(2-3):125-39 (66 ref.)

In vitro antiviral activities of myristic acid analogs against human immunodeficiency and hepatitis B viruses. Parang K, et al. **Antiviral Res** 1997 May;34(3):75-90

Therapeutic basis of glycyrrhizin on chronic hepatitis B. Sato H, et al. **Antiviral Res** 1996 May;30(2-3):171-7

Anti-hepatitis B virus activity of N-acetyl-L-cysteine (NAC): new aspects of a well-established drug. Weiss L, et al. **Antiviral Res** 1996 Aug;32(1):43-53

Identification of a protein kinase C (PKC) activator, daphnoretin, that suppresses hepatitis B virus gene expression in human hepatoma cells. Chen HC, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1025-32

Enhanced oral absorption and antiviral activity of 1-O-octadecyl-sn-glycero-3-phospho-acyclovir and related compounds in hepatitis B virus infection, in vitro. Hostetler KY, et al. **Biochem Pharmacol** 1997 Jun 15; 53(12):1815-22

Phyllanthus amarus down-regulates hepatitis B virus mRNA transcription and replication. Lee CD, et al. **Eur J Clin Invest** 1996 Dec;26(12):1069-76

Conversion of 2',3'-dideoxyadenosine (ddA) and 2',3'-didehydro-2',3'-dideoxyadenosine (d4A) to their corresponding aryloxyphosphoramidate derivatives markedly potentiates their activity against human immunodeficiency virus and hepatitis B virus. Balzarini J, et al. **FEBS Lett** 1997 Jun 30;410(2-3):324-8

Acute hepatic toxicity during cyclic chemotherapy in non Hodgkin's lymphoma. Faggioli P, et al. **Haematologica** 1997 Jan-Feb;82(1):38-42

Lamivudine is effective in suppressing hepatitis B virus DNA in Chinese hepatitis B surface antigen carriers: a placebo-controlled trial. Lai CL, et al. **Hepatology** 1997 Jan;25(1):241-4

Inhibition of hepatitis B virus DNA polymerase by enantiomers of penciclovir triphosphate and metabolic basis for selective inhibition of HBV replication by penciclovir. Shaw T, et al. **Hepatology** 1996 Nov;24(5):996-1002

Inhibition of the expression of hepatitis A and B viruses (HAV and HBV) proteins by interferon in a human hepatocarcinoma cell line (PLC/PRF/5). Berthillon P, et al. **J Hepatol** 1996 Jul;25(1):15-9

Thymosin-alpha 1, but not interferon-alpha, specifically inhibits anchorage-independent growth of hepatitis B viral transfected HepG2 cells. Moshier JA, et al. **J Hepatol** 1996 Dec;25(6):814-20

Inactivation of hepatitis B virus: evaluation of the efficacy of the disinfectant 'Solprogel' using a DNA-polymerase activity assay. Hernández A, et al. **J Hosp Infect** 1997 Aug; 36(4):305-12

Synthesis, anti-human immunodeficiency virus and anti-hepatitis B virus activities of novel oxaselenolane nucleosides. Du J, et al. **J Med Chem** 1997 Sep 12; 40(19):2991-3

Synthesis and anti-hepatitis B virus activity of 9-(2-deoxy-2-fluoro-beta-L-arabinofuranosyl) purine nucleosides. Ma T, et al. **J Med Chem** 1997 Aug 15; 40(17):2750-4

Human hepatitis B virus enhancer 1 is responsive to human interleukin-6. Ohno H, et al. **J Med Virol** 1997 Aug; 52(4):413-8

Inhibition of hepatitis B virus by retroviral vectors expressing antisense RNA. Ji W, et al. **J Viral Hepat** 1997 May; 4(3):167-73

Hepatitis-B-virus resistance to lamivudine given for recurrent infection after orthotopic liver transplantation [see comments] Bartholomew MM, et al. **Lancet** 1997 Jan 4;349(9044):20-2. Comment in: Lancet 1997 Jan 4;349(9044):3-4.

Clinical implications of lamivudine resistance by HBV [comment] Schalm SW. **Lancet** 1997 Jan 4;349(9044):3-4. Comment on: Lancet 1997 Jan 4;349(9044):20-2.

Colorimetric assay system for screening antiviral compounds against hepatitis B virus. Sudo K, et al. **Microbiol Immunol** 1996;40(2):153-9

Prolonged and high dose recombinant interferon alpha-2b alone or after prednisone priming accelerates termination of active viral replication in children with chronic hepatitis B infection. Vajro P, et al. **Pediatr Infect Dis J** 1996 Mar; 15(3):223-31

Virus inactivation of blood products by phenothiazine dyes and light. Mohr H, et al. **Photochem Photobiol** 1997 Mar; 65(3):441-5

[Lamivudine resistance impedes hepatitis B therapy (news)] Eggers HJ. **Fortschr Med** 1997 Apr 30;115(12):5 **(Ger)**

ENZYMOLOGY

DNA polymerase activity of hepatitis B virus particles: differential inhibition by L-enantiomers of nucleotide analogs. Davis MG, et al. **Antiviral Res** 1996 May; 30(2-3):133-45

RNase H activity of human hepatitis B virus polymerase expressed in Escherichia coli. Lee YI, et al. **Biochem Biophys Res Commun** 1997 Apr 17;233(2):401–7

Selection of mutations in the hepatitis B virus polymerase during therapy of transplant recipients with lamivudine. Ling R, et al. **Hepatology** 1996 Sep;24(3):711–3

Hepatitis B virus polymerase mutations during antiviral therapy in a patient following liver transplantation. Aye TT, et al. **J Hepatol** 1997 May;26(5):1148–53

The expression of hepatitis B virus polymerase in hepatocytes during chronic HBV infection. McGarvey MJ, et al. **J Viral Hepat** 1996 Mar;3(2):67–73

Transcomplementation of nucleotide priming and reverse transcription between independently expressed TP and RT domains of the hepatitis B virus reverse transcriptase. Lanford RE, et al. **J Virol** 1997 Apr;71(4):2996–3004

Mutagenesis of a hepatitis B virus reverse transcriptase yields temperature-sensitive virus. Seeger C, et al. **Virology** 1996 Aug 15;222(2):430–9

GENETICS

Interferon-alpha 2b treatment in hepatitis B carriers. Effect on hepatitis B virus DNA levels in children infected with different genotypes. Sangfelt P, et al. **Acta Paediatr** 1997 Feb;86(2):135–7

Core promoter mutations of hepatitis B virus for the response to interferon in e antigen-positive chronic hepatitis B. Kanai K, et al. **Am J Gastroenterol** 1996 Oct;91(10):2150–6

Allogeneic bone marrow transplantation for a patient complicated by chronic hepatitis due to precore mutant hepatitis B virus: failure of management with interferon-alpha therapy [letter] Miura Y, et al. **Am J Hematol** 1997 Apr;54(4):344–5

Inhibition of replication of hepatitis B virus by cytallene in vitro. Zhu YL, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1755–60

Sequence analysis of pre-S/S gene of hepatitis B virus strains of genotypes A, D, and F isolated in Brazil. Moraes MT, et al. **Arch Virol** 1996;141(9):1767–73

Semiquantitative assessment of pre-core stop-codon mutant and wildtype hepatitis B virus during the course of chronic hepatitis B using a new PCR-based assay. Protzer-Knolle U, et al. **Arch Virol** 1996;141(11):2091–101

Recent advances in the molecular biology of hepatitis B virus. Scaglioni PP, et al. **Baillieres Clin Gastroenterol** 1996 Jul; 10(2):207–25 (96 ref.)

Preparation of conjugates between oligonucleotides and N-vinylpyrrolidone/N-acryloxysuccinimide copolymers and applications in nucleic acid assays to improve sensitivity. Erout MN, et al. **Bioconjug Chem** 1996 Sep–Oct; 7(5):568–75

Theoretical and experimental selection parameters for HBV-directed antisense RNA are related to increased RNA-RNA annealing. Patzel V, et al. **Biol Chem** 1997 Jun;378(6):539–43

Antibody-enhanced microplate hybridization assays. Brakel CL. **Biotechniques** 1997 Feb;22(2):346–8

Direct detection of hepatitis B virus gene integrated in the Alexander cell using fluorescence in situ polymerase chain reaction. Matsui H, et al. **Cancer Lett** 1997 Jun 24; 116(2):259–64

Frequent loss of chromosome 8p in hepatitis B virus-positive hepatocellular carcinomas from China. Becker SA, et al. **Cancer Res** 1996 Nov 1;56(21):5092–7

Minisatellite rearrangements are increased in liver tumours induced by transplacental aflatoxin B1 treatment of hepatitis B virus transgenic mice, but not in spontaneously arising tumours. Kaplanski C, et al. **Carcinogenesis** 1997 Apr;18(4):633–9

Hepatitis B virus variants and their significance in pathogenesis, prevention and treatment. Wen Y. **Chin Med J (Engl)** 1996 Jan;109(1):39–41 (11 ref.)

Molecular variants of hepatitis B virus. Carman WF. **Clin Lab Med** 1996 Jun;16(2):407–28 (97 ref.)

Differential regulation of major surface promoter in hepatitis B virus. Kuo YL, et al. **DNA Cell Biol** 1997 May; 16(5):545–57

Genetic variation in hepatitis B virus. Harrison TJ. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):306–11 (48 ref.)

Precore/core mutations of hepatitis B virus in hepatocellular carcinomas developed on noncirrhotic livers. Minami M, et al. **Gastroenterology** 1996 Sep;111(3):691–700

Production of hepatitis B virus preS polypeptide in Escherichia coli by mutation of the 5'-end coding sequence and its purification and characterization. Kim HS, et al. **Gene** 1996 Oct 24;177(1–2):173–7

Deletion of the myristylation signal allows high-level production of the hepatitis B virus large surface glycoprotein preS1 with vaccinia virus recombinants. Pfleiderer M, et al. **Gene** 1996 Oct 17;176(1–2):131–7

HBV-derived promoters direct liver-specific expression of an adenovirally transduced LDL receptor gene. Sandig V, et al. **Gene Ther** 1996 Nov;3(11):1002–9

The role of HBV DNA and liver histopathology in HBsAg carriers. Agalar C, et al. **Hepatogastroenterology** 1997 Jul–Aug;44(16):1196–9

Accumulation and persistence of hepatitis B virus core gene deletion mutants in renal transplant patients are associated with end-stage liver disease. Günther S, et al. **Hepatology** 1996 Oct;24(4):751–8

Surface gene mutants of hepatitis B virus in infants who develop acute or chronic infections despite immunoprophylaxis. Hsu HY, et al. **Hepatology** 1997 Sep; 26(3):786–91

Nucleic acid sequence analysis of the precore region of hepatitis B virus from sera of southern African black adult carriers of the virus. Kramvis A, et al. **Hepatology** 1997 Jan;25(1):235–40

HBV precore mutants and response to interferon [letter] Lindh M. **Hepatology** 1997 Jun;25(6):1547–8

Mutations in the hepatitis B virus precore/core gene and core promoter in patients with severe recurrent disease following liver transplantation. McMillan JS, et al. **Hepatology** 1996 Dec;24(6):1371–8

Receptor-mediated delivery of hepatitis B virus DNA and antisense oligodeoxynucleotides to avian liver cells. Madon J, et al. **Hepatology** 1996 Sep;24(3):474–81

Detection by ligase chain reaction of precore mutant of hepatitis B virus. Minamitani S, et al. **Hepatology** 1997 Jan; 25(1):216–22

Transmission of a homogenous hepatitis B virus population of A1896-containing strains leading to mild resolving acute hepatitis and seroconversion to hepatitis B e antigen antibodies in an adult. Mphahlele MJ, et al. **Hepatology** 1997 Sep;26(3):743–6

Analysis of the tumorigenicity of the X gene of hepatitis B virus in a nontransformed hepatocyte cell line and the effects of cotransfection with a murine p53 mutant equivalent to human codon 249. Oguey D, et al. **Hepatology** 1996 Nov;24(5):1024–33

Pre-S2 defective hepatitis B virus infection in patients with fulminant hepatitis. Pollicino T, et al. **Hepatology** 1997 Aug; 26(2):495–9

A hepatitis B virus mutant with a new hepatocyte nuclear factor 1 binding site emerging in transplant-transmitted fulminant hepatitis B. Pult I, et al. **Hepatology** 1997 Jun; 25(6):1507–15

Mutation in HBV RNA-dependent DNA polymerase confers resistance to lamivudine in vivo. Tipples GA, et al. **Hepatology** 1996 Sep;24(3):714–7

Hepatitis B virus mutations in the pre-S genome before and after liver transplantation. Trautwein C, et al. **Hepatology** 1996 Sep;24(3):482–8

Inhibition of hepatitis-B-virus core promoter by p53: implications for carcinogenesis in hepatocytes. Uchida T, et al. **Int J Cancer** 1996 Sep 17;67(6):892–7

Spatial structure and insertion capacity of immunodominant region of hepatitis B core antigen. Borisova G, et al. **Intervirology** 1996;39(1–2):16–22 (23 ref.)

Hepatitis B virus core and e antigen: immune recognition and use as a vaccine carrier moiety. Schödel F, et al. **Intervirology** 1996;39(1–2):104–10

Activating transcription factor 2 (ATF2) down-regulates hepatitis B virus X promoter activity by the competition for the activating protein 1 binding site and the formation of the ATF2-Jun heterodimer. Choi CY, et al. **J Biol Chem** 1997 Jul 4;272(27):16934–9

Two core promotor mutations identified in a hepatitis B virus strain associated with fulminant hepatitis result in enhanced viral replication. Baumert TF, et al. **J Clin Invest** 1996 Nov 15;98(10):2268–76

Precore mutant of hepatitis B virus prevails in acute and chronic infections in an area in which hepatitis B is endemic. Chu CM, et al. **J Clin Microbiol** 1996 Jul; 34(7):1815–8

Comparison of hepatitis B virus DNA extractions from serum by the QIAamp blood kit, GeneReleaser, and the phenol-chloroform method. Kramvis A, et al. **J Clin Microbiol** 1996 Nov;34(11):2731–3

Increased prevalence of genotype F hepatitis B virus isolates in Buenos Aires, Argentina. Telenta PF, et al. **J Clin Microbiol** 1997 Jul;35(7):1873–5

Long PCR and its application to hepatitis viruses: amplification of hepatitis A, hepatitis B, and hepatitis C virus genomes. Tellier R, et al. **J Clin Microbiol** 1996 Dec; 34(12):3085–91

Point mutation in precore region of hepatitis B virus: sequential changes from 'wild' to 'mutant'. Ehata T, et al. **J Gastroenterol Hepatol** 1996 Jun;11(6):566–74

A unique segment of the hepatitis B virus group A genotype identified in isolates from South Africa. Bowyer SM, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1719–29

Mosaic hepatitis B virus core particles allow insertion of extended foreign protein segments. Koletzki D, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2049–53

Comparison of hepatitis B virus core promoter sequences in peripheral blood mononuclear cells and serum from patients with hepatitis B. Laskus T, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):649–53

Production of hepatitis B virus covalently closed circular DNA in transfected cells is independent of surface antigen synthesis. Ling R, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1463–7

Differences in the target specificity of the transactivating factors MHBs(t) and HBx of hepatitis B virus. Mühlbauer E, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1033–9

The retinoblastoma gene product activates transcription of the hepatitis B virus pregenomic promoter through the Sp1 binding sites. Park GT, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2775–80

Placebo-controlled trial of vaccination with hepatitis B virus surface antigen in hepatitis B virus transgenic mice. Akbar SM, et al. **J Hepatol** 1997 Jan;26(1):131–7

Emergence and selection of HBV variants in an anti-HBe positive patient persistently infected with quasi-species. Alexopoulou A, et al. **J Hepatol** 1997 Apr;26(4):748–53

Sequential changes in full-length genomes of hepatitis B virus accompanying acute exacerbation of chronic hepatitis B. Asahina Y, et al. **J Hepatol** 1996 Dec;25(6):787–94

High degree of conservation in the hepatitis B virus core gene during the immune tolerant phase in perinatally acquired chronic hepatitis B virus infection. Bozkaya H, et al. **J Hepatol** 1997 Mar;26(3):508–16

Evidence for selection of hepatitis B mutants after liver transplantation through peripheral blood mononuclear cell infection. Brind A, et al. **J Hepatol** 1997 Feb;26(2):228–35

Comparison of four methods for quantitative measurement of hepatitis B viral DNA. Butterworth LA, et al. **J Hepatol** 1996 Jun;24(6):686–91

Hepatitis B virus surface mutations associated with infection after liver transplantation. Hawkins AE, et al. **J Hepatol** 1996 Jan;24(1):8–14

Lamivudine resistance in immunocompetent chronic hepatitis B. Incidence and patterns. Honkoop P, et al. **J Hepatol** 1997 Jun;26(6):1393–5

The value of quantitative detection of HBV-DNA amplified by PCR in the study of hepatitis B infection. Jardi R, et al. **J Hepatol** 1996 Jun;24(6):680–5

Persistence of hepatitis B virus DNA in serum and liver from patients with chronic hepatitis B after loss of HBsAg. Loriot MA, et al. **J Hepatol** 1997 Aug;27(2):251–8

De novo and apparent de novo hepatitis B virus infection after liver transplantation. Roche B, et al. **J Hepatol** 1997 Mar;26(3):517–26

Could serum HBV DNA level in the early phase of acute hepatitis B predict evolution to chronic HBV carriage? [letter] Roingeard P, et al. **J Hepatol** 1997 Apr;26(4):953–4

Familial clustering of HBV pre-C and pre-S mutants. Santantonio T, et al. **J Hepatol** 1997 Feb;26(2):221–7

Outcome of liver disease and response to interferon treatment are not influenced by hepatitis B virus core gene variability in children with chronic type B hepatitis. Schepis F, et al. **J Hepatol** 1997 Apr;26(4):765–70

Hepatitis B virus sequence changes evolving in liver transplant recipients with fulminant hepatitis. Sterneck M, et al. **J Hepatol** 1997 Apr;26(4):754–64

Identification of hepatitis B virus integration in hepatitis C virus-infected hepatocellular carcinoma tissues. Urashima T, et al. **J Hepatol** 1997 Apr;26(4):771–8

Hepatitis B virus core protein mutations are concentrated in B cell epitopes in progressive disease and in T helper cell epitopes during clinical remission. Carman WF, et al. **J Infect Dis** 1997 May;175(5):1093–100

Hepatitis B virus (HBV)/hepatitis D virus (HDV) coinfection in outbreaks of acute hepatitis in the Peruvian Amazon basin: the roles of HDV genotype III and HBV genotype F. Casey JL, et al. **J Infect Dis** 1996 Nov;174(5):920–6

Detection of hepatitis B surface gene mutation in carrier children with or without immunoprophylaxis at birth. Lee PI, et al. **J Infect Dis** 1997 Aug;176(2):427–30

Genotypes, nt 1858 variants, and geographic origin of hepatitis B virus--large-scale analysis using a new genotyping method. Lindh M, et al. **J Infect Dis** 1997 Jun; 175(6):1285–93

Genotype F prevails in HBV infected patients of hispanic origin in Central America and may carry the precore stop mutant. Arauz-Ruiz P, et al. **J Med Virol** 1997 Apr; 51(4):305–12

Complete nucleotide sequences of hepatitis B virus genomes associated with epidemic fulminant hepatitis. Asahina Y, et al. **J Med Virol** 1996 Feb;48(2):171–8

Gradual accumulation of mutations in precore core region of HBV in patients with chronic active hepatitis: implications of clustering changes in a small region of the HBV core region. Hur GM, et al. **J Med Virol** 1996 Jan; 48(1):38–46

Human hepatitis B virus enhancer 1 is responsive to human interleukin-6. Ohno H, et al. **J Med Virol** 1997 Aug; 52(4):413–8

Frequency of hepatitis B virus e-minus mutants varies among patients from different areas of China. Tu H, et al. **J Med Virol** 1997 Feb;51(2):85–9

Analysis of hepatitis B virus genotypes and pre-core region variability during interferon treatment of HBe antigen negative chronic hepatitis B. Zhang X, et al. **J Med Virol** 1996 Jan;48(1):8–16

Recombination between sequences of hepatitis B virus from different genotypes. Bollyky PL, et al. **J Mol Evol** 1996 Feb;42(2):97–102

Constrained evolution with respect to gene overlap of hepatitis B virus. Mizokami M, et al. **J Mol Evol** 1997;44 Suppl 1:S83–90

Cell type-specific mechanisms regulate hepatitis B virus transgene expression in liver and other organs. Aragona E, et al. **J Pathol** 1996 Dec;180(4):441–9

Whole genome analysis of hepatitis B virus from four cases of fulminant hepatitis: genetic variability and its potential role in disease pathogenicity. Alexopoulou A, et al. **J Viral Hepat** 1996 Jul;3(4):173–81

Relationship between the serum alanine aminotransferase level at the end of interferon treatment and histologic changes in wild-type and precore mutant hepatitis B virus infections. Bayraktar Y, et al. **J Viral Hepat** 1996 May; 3(3):137–42

Hepatitis B virus transcriptional activators: mechanisms and possible role in oncogenesis. Henkler F F, et al.

J Viral Hepat 1996 May;3(3):109–21 (129 ref.)
Comparison of the Chiron Quantiplex branched DNA (bDNA) assay and the Abbott Genostics solution hybridization assay for quantification of hepatitis B viral DNA. Kapke GE, et al. **J Viral Hepat** 1997 Jan;4(1):67–75
Hepatitis B virus precore mutants in HBeAg carriers with chronic hepatitis treated with interferon. Lampertico P, et al. **J Viral Hepat** 1995;2(5):251–6
Analysis of hepatitis B virus precore variants in hepatitis B e antibody–positive patients treated with prednisone plus interferon. Lopez–Alcorocho JM, et al. **J Viral Hepat** 1995; 2(6):279–84
The molecular basis of hepatitis B e antigen (HBeAg)–negative infections. Miyakawa Y, et al. **J Viral Hepat** 1997 Jan;4(1):1–8 (64 ref.)
Hepatitis B virus replication—an update. Nassal M, et al. **J Viral Hepat** 1996 Sep;3(5):217–26 (51 ref.)
Rare pre–core stop–codon mutant nt. 1897 predominates over wide–spread mutant nt. 1896 in an unusual course of chronic hepatitis B. Protzer U, et al. **J Viral Hepat** 1996 May;3(3):155–62
Ligase chain reaction (LCR) assay for semi–quantitative detection of HBV DNA in mononuclear leukocytes of patients with chronic hepatitis B. Trippler M, et al. **J Viral Hepat** 1996 Sep;3(5):267–72
In vivo inhibition of hepatitis B viral gene expression by antisense phosphorothioate oligodeoxynucleotides in athymic nude mice. Yao Z, et al. **J Viral Hepat** 1996 Jan; 3(1):19–22
Type, prevalence, and significance of core promoter/enhancer II mutations in hepatitis B viruses from immunosuppressed patients with severe liver disease. Günther S, et al. **J Virol** 1996 Dec;70(12):8318–31
Members of the nuclear receptor superfamily regulate transcription from the hepatitis B virus nucleocapsid promoter. Raney AK, et al. **J Virol** 1997 Feb;71(2):1058–71
Posttranscriptional regulation of hepatitis B virus replication by the precore protein. Scaglioni PP, et al. **J Virol** 1997 Jan;71(1):345–53
Transcription of hepatitis B virus in peripheral blood mononuclear cells from persistently infected patients. Stoll–Becker S, et al. **J Virol** 1997 Jul;71(7):5399–407
Novel and frequent mutations of hepatitis B virus coincide with a major histocompatibility complex class I–restricted T–cell epitope of the surface antigen. Tai PC, et al. **J Virol** 1997 Jun;71(6):4852–6
Activation of hepatitis B virus S promoter by the viral large surface protein via induction of stress in the endoplasmic reticulum. Xu Z, et al. **J Virol** 1997 Oct;71(10):7387–92
Promoters for synthesis of the pre–C and pregenomic mRNAs of human hepatitis B virus are genetically distinct and differentially regulated. Yu X, et al. **J Virol** 1996 Dec; 70(12):8719–26
Colourimetric point mutation assay: for detection of precore mutants of hepatitis B. Ballard AL, et al. **J Virol Methods** 1997 Sep;67(2):143–52
Comparison of three different hybridization assays in the quantitative measurement of serum hepatitis B virus DNA. Hwang SJ, et al. **J Virol Methods** 1996 Dec;62(2):123–9
What technique should be used for routine detection and quantification of HBV DNA in clinical samples? Pawlotsky JM, et al. **J Virol Methods** 1997 May;65(2):245–53
Detection of serum HBV DNA and anti–HCV antibody in HBsAg seronegative patients with hepatocellular carcinoma in Japan. Tokeshi S, et al. **Kansenshogaku Zasshi** 1996 Feb;70(2):103–7
Detection of hepatitis B virus DNA and RNA in kidneys of HBV related glomerulonephritis. Lai KN, et al. **Kidney Int** 1996 Dec;50(6):1965–77
Hepatitis B virus with X gene mutation is associated with the majority of serologically "silent" non–b, non–c chronic hepatitis. Fukuda R, et al. **Microbiol Immunol** 1996; 40(7):481–8
Primers determine the sensitivity of PCR–mediated hepatitis B virus DNA detection and pretreatment of PCR mixture with 8–methoxypsoralen eliminates false–positive results. Keum WK, et al. **Mol Cells** 1997 Apr 30;7(2):244–50
Mutations of the X region of hepatitis B virus and their clinical implications. Uchida T, et al. **Pathol Int** 1997 Apr; 47(4):183–93 (150 ref.)
PCR analysis of hepatitis B virus DNA in paraffin–embedded liver tissue from patients with chronic liver disease. Chapel F, et al. **Pathol Res Pract** 1995 Oct;191(10):961–6
Distribution of the predominant hepatitis B virus precore variants in hepatitis B e antigen–positive children and their effect on treatment response. Cabrerizo M, et al. **Pediatr Res** 1996 Jun;39(6):980–4
Structure and selection of hepatitis B virus variants during the natural course of infection and interferon therapy. Günther S, et al. **Princess Takamatsu Symp** 1995;25:211–20 (31 ref.)
Hepatitis B virus transactivator protein, HBx, associates with the components of TFIIH and stimulates the DNA helicase activity of TFIIH. Qadri I, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10578–83
Nucleotide sequence of precore region of hepatitis B virus DNA in HBsAg–positive carriers in Malaysia. Ton SH, et al. **Scand J Infect Dis** 1996;28(6):543–8
A comparison of amino acid sequences of hepatitis B virus S gene in 46 children presenting various clinical features for immunoprophylaxis. Miyake Y, et al. **Tohoku J Exp Med** 1996 Nov;180(3):233–47
Association between the accumulation of hepatitis B virus core gene deletion mutants and progression of liver disease in long–term renal transplant patients. Reinke P, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):815–6
Experimental confirmation of a hepatitis B virus (HBV) epsilon–like bulge–and–loop structure in avian HBV RNA encapsidation signals. Beck J, et al. **Virology** 1997 Jan 20; 227(2):500–4
Interaction of transcription factors RFX1 and MIBP1 with the gamma motif of the negative regulatory element of the hepatitis B virus core promoter. Buckwold VE, et al. **Virology** 1997 Jan 20;227(2):515–8
Naturally occurring hepatitis B virus genomes bearing the hallmarks of retroviral G––>A hypermutation. Günther S, et al. **Virology** 1997 Aug 18;235(1):104–8
The hepatitis B virus large surface protein (LHBs) is a transcriptional activator. Hildt E, et al. **Virology** 1996 Nov 1;225(1):235–9
Activation of the hepatitis B virus S promoter by transcription factor NF–Y via a CCAAT element. Lu CC, et al. **Virology** 1996 Nov 15;225(2):387–94
Reduced precore transcription and enhanced core–pregenome transcription of hepatitis B virus DNA after replacement of the precore–core promoter with sequences associated with e antigen–seronegative persistent infections. Moriyama K, et al. **Virology** 1996 Dec 15; 226(2):269–80
Biologic properties of hepatitis B viral genomes with mutations in the precore promoter and precore open reading frame. Scaglioni PP, et al. **Virology** 1997 Jul 7; 233(2):374–81
DNA sequence requirements for the activation of a CATAAA polyadenylation signal within the hepatitis B virus X reading frame: rapid detection of truncated transcripts. Schutz T, et al. **Virology** 1996 Sep 15; 223(2):401–5
The TATA–less promoter of hepatitis B virus S gene contains a TBP binding site and an active initiator. Bogomolski–Yahalom V, et al. **Virus Res** 1997 May; 49(1):1–7
Rational use of polymerase chain reaction—based detection of viral genomes in patients with serologic markers of hepatitis B or C virus infection. Pfeffel F, et al. **Wien Klin Wochenschr** 1997 Jan 17;109(1):20–4
[Expression and significance of hepatitis B virus genes in human primary intrahepatic cholangiocarcinoma and its surrounding tissue] Wang W, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Mar;18(2):127–30 (Eng. Abstr.) **(Chi)**
[Progresses in infections diseases in China, 1996] Wang Q. **Chung Hua I Hsueh Tsa Chih** 1996 Dec;76(12):895–6 (0 ref.) **(Chi)**
[Advances in the molecular pathological study of hepatitis viruses and the canceration of liver cancers] Wang L, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1995 Dec; 24(6):393–5 (11 ref.) **(Chi)**
[Detection of hepatitis B virus DNA and hepatitis C virus RNA in human hepatocellular carcinoma by polymerase chain reaction] Zhang H, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):70–2 (Eng. Abstr.) **(Chi)**
[Hepatitis B virus mutants—clinical significance] Blum HE, et al. **Z Gastroenterol** 1997 May;35(5):347–55 (79 ref.) (Eng. Abstr.) **(Ger)**
[Detection of hepatitis B virus by using polymerase chain reaction and nonradioactive DNA probes. II. Identification of mutations in the core gene by PCR–direct sequencing and ASO probe method] Yamashita K, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1072–8 (Eng. Abstr.) **(Jpn)**
[Mutation of hepatitis viruses and the pathophysiology] Komata M, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1995 Dec;18(6):583–93 (7 ref.) **(Jpn)**
[Tests related to nucleic acids and DNA: effects of time lag between sample collection and examination on HBV–DNA polymerase activity] Ohira M, et al. **Rinsho Byori** 1996 Nov;Suppl 103:258–61 **(Jpn)**
["X"—the last unknown of hepatitis B virus? Gene X and products of its expression] Sidorkiewicz M. **Postepy Biochem** 1997;43(1):25–30 (51 ref.) **(Pol)**
[Preparation and study of recombinant strains of Venezuelan equine encephalomyelitis virus expressing the PreS2–S gene of the hepatitis B virus] Dryga SA, et al. **Vopr Virusol** 1996 May–Jun;41(3):100–4 (Eng. Abstr.) **(Rus)**
[Genetic diversity of hepatitis C virus. Genotypes] San Miguel A, et al. **Rev Clin Esp** 1997 Apr;197(4):266–75 (117 ref.) **(Spa)**

GROWTH & DEVELOPMENT

Remodeling of cell surface glycoproteins by N–acetylglucosaminyltransferase III gene transfection: modulation of metastatic potentials and down regulation of hepatitis B virus replication. Taniguchi N, et al. **Glycobiology** 1996 Oct;6(7):691–4 (25 ref.)
Prolonged interferon–alpha therapy of hepatitis B virus–related decompensated cirrhosis. Marcellin P, et al. **J Viral Hepat** 1997;4 Suppl 1:21–6
Hepatitis B virus replication—an update. Nassal M, et al. **J Viral Hepat** 1996 Sep;3(5):217–26 (51 ref.)
Long–term productive episomal hepatitis B virus replication in primary cultures of adult human hepatocytes infected in vitro. Rumin S, et al. **J Viral Hepat** 1996 Sep;3(5):227–38
Hepatitis B virus replication is cell cycle independent during liver regeneration in transgenic mice. Guidotti LG, et al. **J Virol** 1997 Jun;71(6):4804–8
[Spontaneous reactivation of the hepatitis B virus?] Ciutică I, et al. **Bacteriol Virusol Parazitol Epidemiol** 1996 Jul–Dec; 41(3–4):131–4 (Eng. Abstr.) **(Rum)**
[Hepatitis B virus reactivation in patients infected with HIV] Ciutică I, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan–Jun;42(1–2):59–63 (Eng. Abstr.) **(Rum)**

IMMUNOLOGY

Western blot analysis of the reactivity between envelope proteins of hepatitis B viruses from Brazilian carriers and antibodies raised against recombinant hepatitis B vaccines. De Castro L, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):251–8
Hepatitis B virus core–preS2 particles expressed by recombinant vaccinia virus. Nemecková S, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):273–9
Seroprevalence of hepatitis B virus among school–age children in the Stann Creek District of Belize, Central America. Chamberlin J, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):452–5
p53 mutations, chronic hepatitis B virus infection, and aflatoxin exposure in hepatocellular carcinoma in Taiwan. Lunn RM, et al. **Cancer Res** 1997 Aug 15;57(16):3471–7
Pathogenesis of chronic liver disease in patients with chronic hepatitis B virus infection without serum HBeAg. Mangia A, et al. **Dig Dis Sci** 1996 Dec;41(12):2447–52
Comparison of cytotoxic T lymphocyte responses induced by peptide or DNA immunization: implications on immunogenicity and immunodominance. Vitiello A, et al. **Eur J Immunol** 1997 Mar;27(3):671–8
Molecular features of the hepatitis B virus nucleocapsid T–cell epitope 18–27: interaction with HLA and T–cell receptor. Bertoletti A, et al. **Hepatology** 1997 Oct; 26(4):1027–34
Chronic ethanol effects on cellular immune responses to hepatitis B virus envelope protein: an immunologic mechanism for induction of persistent viral infection in alcoholics. Geissler M, et al. **Hepatology** 1997 Sep; 26(3):764–70
Predominant T–helper 1 cytokine profile of hepatitis B virus nucleocapsid–specific T cells in acute self–limited hepatitis B. Penna A, et al. **Hepatology** 1997 Apr;25(4):1022–7
Virus–like particles induce MHC class I–restricted T–cell responses. Lessons learned from the hepatitis B small surface antigen. Schirmbeck R, et al. **Intervirology** 1996; 39(1–2):111–9
Emergence and selection of HBV variants in an anti–HBe positive patient persistently infected with quasi–species. Alexopoulou A, et al. **J Hepatol** 1997 Apr;26(4):748–53
The role of transplacental hepatitis B core antibody in the mother–to–infant transmission of hepatitis B virus. Chang MH, et al. **J Hepatol** 1996 Jun;24(6):674–9
The hepatitis B virus–specific CTL responses induced in humans by lipopeptide vaccination are comparable to those elicited by acute viral infection. Livingston BD, et al. **J Immunol** 1997 Aug 1;159(3):1383–92
Infectivity and pathogenicity in chimpanzees of a surface gene mutant of hepatitis B virus that emerged in a vaccinated infant. Ogata N, et al. **J Infect Dis** 1997 Mar; 175(3):511–23
Low expression of erythrocyte complement receptor type 1 in chronic hepatitis C patients. Kanto T, et al. **J Med Virol** 1996 Oct;50(2):126–34
In vitro neutralization of hepatitis B virus by monoclonal antibodies against the viral surface antigen. Ryu CJ, et al. **J Med Virol** 1997 Jun;52(2):226–33
Further observations on the immune response to recombinant hepatitis B vaccine after administration to aboriginal and Torres Strait Island children. Hanna JN, et al. **J Paediatr Child Health** 1997 Feb;33(1):67–70
The clinical significance of surface antigen variants of hepatitis B virus. Carman WF. **J Viral Hepat** 1997;4 Suppl 1:11–20 (47 ref.)
Oxidative burst response of neutrophils primed with PreS1 antigen of hepatitis B virus in patients with chronic hepatitis B and convalescents. Sułowska Z, et al. **J Viral Hepat** 1996 Nov;3(6):293–9
Interleukin–12 inhibits hepatitis B virus replication in transgenic mice. Cavanaugh VJ, et al. **J Virol** 1997 Apr; 71(4):3236–43
Improvement of hepatitis B virus DNA vaccines by plasmids coexpressing hepatitis B surface antigen and interleukin–2. Chow YH, et al. **J Virol** 1997 Jan;71(1):169–78
Anergic TH1 clones specific for hepatitis B virus (HBV) core peptides are inhibitory to other HBV core–specific CD4+ T cells in vitro. Diepolder HM, et al. **J Virol** 1996 Nov; 70(11):7540–8
The hepatitis B virus core and e antigens elicit different Th cell subsets: antigen structure can affect Th cell phenotype. Milich DR, et al. **J Virol** 1997 Mar;71(3):2192–201
Human CD4+ T–cell response to hepatitis delta virus: identification of multiple epitopes and characterization of T–helper cytokine profiles. Nisini R, et al. **J Virol** 1997 Mar;71(3):2241–51
Differential cytotoxic T–lymphocyte responsiveness to the hepatitis B and C viruses in chronically infected patients. Rehermann B, et al. **J Virol** 1996 Oct;70(10):7092–102
Vaccine against human hepatitis B. 1976 [classical article] [see comments] Buynak EB, et al. **JAMA** 1996 Dec 11;

276(22):1793–5. Comment in: JAMA 1996 Dec 11;276(22):1796–5.

The heritage of hepatitis B vaccine [comment] [see comments] Douglas RG Jr. **JAMA** 1996 Dec 11; 276(22):1796–8. Comment on: JAMA 1996 Dec 11;276(22):1793–5. Comment in: JAMA 1997 Apr 9;277(14):1124–5.

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [see comments] Rehman K, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):152–4. Comment in: JPMA J Pak Med Assoc 1997 Mar;47(3):100–1.

Hepatitis B and C viruses serology in patients with SLE. Abu-Shakra M, et al. **Lupus** 1997;6(6):543–4

Defect of cell-mediated immune response against hepatitis B virus: an indication for pathogenesis of hepatitis-B-virus-associated membranous nephropathy. Lin CY, et al. **Nephron** 1997;76(2):176–85

A new immune escape mutant of hepatitis B virus with an Asp to Ala substitution in aa144 of the envelope major protein. Ni F, et al. **Res Virol** 1995 Nov-Dec; 146(6):397–407

Anti-HBe titre in patients infected with wild-type and e-minus variant of hepatitis B virus. Tu H, et al. **Res Virol** 1996 Jan-Feb;147(1):39–43

Concomitant high prevalence of hepatitis C virus antibodies and hepatitis B virus markers in a small village of the Amazon Region, Mato Grosso State, Brazil. Souto FJ, et al. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):221–3

High-titered anti-HBs fresh frozen plasma for immunoprophylaxis against hepatitis B virus recurrence after liver transplantation. Mentha G, et al. **Transplant Proc** 1997 Aug;29(5):2369–73

Outcome of HBs antigen positive kidneys after renal transplantation. Turc Baron C, et al. **Transplant Proc** 1997 Aug;29(5):2446

Immune selection and virus evolution: be cautious of paradigms [letter] Daenke S. **Trends Microbiol** 1997 Mar; 5(3):92–3 (6 ref.)

Replication and immunogenicity of Ad7-, Ad4-, and Ad5-hepatitis B virus surface antigen recombinants, with or without a portion of E3 region, in chimpanzees. Chengalvala MV, et al. **Vaccine** 1997 Feb;15(3):335–9

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of HBV DNA. Lazizi Y, et al. **Vaccine** 1997 Aug;15(11):1194–9

Safety and immunogenicity of a novel mammalian cell-derived recombinant hepatitis B vaccine containing Pre-S1 and Pre-S2 antigens in children. Raz R, et al. **Vaccine** 1996 Feb;14(3):207–11

T cell hyperreactivity to IL-6 in chronic nonviremic HBV carriers despite normal IL-6 receptor or gp130 expression. Baroja ML, et al. **Viral Immunol** 1996;9(3):187–94

Peptide-specific CTL induction in HBV-seropositive PBMC by stimulation with peptides in vitro: novel epitopes identified from chronic carriers. Lee HG, et al. **Virus Res** 1997 Aug;50(2):185–94

Does anti-HBc reactivity reflect 'lifestyle' risk in north London blood donors? Moore MC, et al. **Vox Sang** 1997; 72(2):79–84

[Profiles of serological markers of HBV-infection in acute hepatitis B] Nikiforov ND, et al. **Klin Med (Mosk)** 1996; 74(7):16–8 (Eng. Abstr.) **(Rus)**

[Effect of phytotherapy on the prevention and elimination of hepatotoxic responses in patients with pulmonary tuberculosis, carriers of hepatitis B virus markers] Galitskiĭ LA, et al. **Probl Tuberk** 1997;(4):35–8 (Eng. Abstr.) **(Rus)**

[HCV and HBV seropositivity in university students of the State of Nuevo León, Mexico] Flores-Castañeda MS, et al. **Rev Gastroenterol Mex** 1996 Oct-Dec;61(4):327–31 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Detection of hepatitis B virus DNA in hepatitis B surface antigen-negative serum by polymerase chain reaction: evaluation of different primer pairs and conditions. Gomes SA, et al. **Acta Virol** 1996 Jun;40(3):133–8

Interactions between HIV and hepatitis B virus in homosexual men: effects on the natural history of infection. Gilson RJ, et al. **AIDS** 1997 Apr;11(5):597–606

Relationship between composition of lymphoid cell infiltrates in the liver and replication status in chronic hepatitis B: an immunohistochemical study. Mosnier JF, et al. **Am J Clin Pathol** 1996 Nov;106(5):625–33

Low level hepatitis B viremia detected by polymerase chain reaction accompanies the absence of HBe antigenemia and hepatitis in hepatitis B virus carriers. Niitsuma H, et al. **Am J Gastroenterol** 1997 Jan;92(1):119–23

Apoptosis induced by tumor necrosis factor-alpha in rat hepatocyte cell lines expressing hepatitis B virus. Guilhot S, et al. **Am J Pathol** 1996 Mar;148(3):801–14

A sensitive PCR assay system for the quantitation of viral genome equivalents: human immunodeficiency virus type 1 (HIV-1) and hepatitis B virus (HBV). Hämmerle T, et al. **Arch Virol** 1997;142(7):1297–306

Rat as an animal model carrying human hepatitis B virus in hepatocytes. Wang Y, et al. **Chin Med J (Engl)** 1996 Sep;109(9):674–9

Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI-TOF mass spectrometry. Jurinke C, et al. **Genet Anal** 1996 Sep;13(3):67–71

Prevalence of herpesviridae and hepatitis B virus DNA in the liver of patients with non-A, non-B fulminant hepatic failure. Mason A, et al. **Hepatology** 1996 Dec;24(6):1361–5

A cytological study of hepatitis B surface antigen localization using orcein staining in hepatocellular carcinoma. Panicker JN, et al. **Indian J Med Res** 1996 Dec;104:374–6

Frequent rearrangements at minisatellite loci D1S7 (1p33–35), D7S22 (7q36–ter) and D12S11 (12q24.3–ter) in hepatitis B virus-positive hepatocellular carcinomas from Thai patients. Kaplanski C, et al. **Int J Cancer** 1997 Jul 17;72(2):248–54

Comparison of methods for extraction of nucleic acid from hemolytic serum for PCR amplification of hepatitis B virus DNA sequences. Klein A, et al. **J Clin Microbiol** 1997 Jul; 35(7):1897–9

Comparison of hepatitis B virus DNA extractions from serum by the QIAamp blood kit, GeneReleaser, and the phenol-chloroform method. Kramvis A, et al. **J Clin Microbiol** 1996 Nov;34(11):2731–3

Persistence of hepatic hepatitis B virus after serological clearance of HBsAg with autologous peripheral stem cell transplantation. Lau GK, et al. **J Clin Pathol** 1997 Aug; 50(8):706–8

Histiocytic necrotizing lymphadenitis. A clinico-pathologic study of 45 cases with in situ hybridization for Epstein-Barr virus and hepatitis B virus. Cho KJ, et al. **J Korean Med Sci** 1996 Oct;11(5):409–14

A clinical evaluation of a new method for HBV DNA quantitation in patients with chronic hepatitis B. Khakoo SI, et al. **J Med Virol** 1996 Oct;50(2):112–6

Pre-core mutants of hepatitis B virus in patients receiving immunosuppressive treatment after orthotopic liver transplantation. Protzer U, et al. **J Med Virol** 1996 Oct; 50(2):135–44

Quantitative assessment of serum hepatitis B e antigen, IgM hepatitis B core antibody and HBV DNA in monitoring the response to treatment in patients with chronic hepatitis B. Bernard F, et al. **J Viral Hepat** 1997 Jul;4(4):265–72

2',3'-dideoxy-3'-fluoroguanosine inhibits duck hepatitis B virus in vivo. Löfgren B, et al. **J Viral Hepat** 1996 Mar; 3(2):61–5

Efficacy of prolonged interferon-alpha treatment in chronic hepatitis B patients with HBeAb: comparison between 6 and 12 months of therapy. Lopez-Alcorocho JM, et al. **J Viral Hepat** 1997;4 Suppl 1:27–32

Preoperative serum levels of wild-type and hepatitis B e antigen-negative hepatitis B virus (HBV) and graft infection after liver transplantation for HBV-related hepatocellular carcinoma. Mazzaferro V, et al. **J Viral Hepat** 1997 Jul;4(4):235–42

Ligase chain reaction (LCR) assay for semi-quantitative detection of HBV DNA in mononuclear leukocytes of patients with chronic hepatitis B. Trippler M, et al. **J Viral Hepat** 1996 Sep;3(5):267–72

Hepatitis B nucleotide sequence analysis: linking an outbreak of acute hepatitis B to contamination of a cryopreservation tank. Hawkins AE, et al. **J Virol Methods** 1996 Jun; 60(1):81–8

Detection and quantitation of HBV DNA by semi-nested PCR in donated blood: comparison with HBV serological markers. Matsumoto C, et al. **J Virol Methods** 1997 Jun; 66(1):61–9

Sequence-specific, single-primer amplification and detection of PCR products for identification of hepatitis viruses. Nainan OV, et al. **J Virol Methods** 1996 Sep;61(1-2):127–34

The effectiveness of donor selection for reducing the risk of HCV, HBV and HIV in new blood donors [letter] Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):611

The risk of transmitting HCV, HBV or HIV by blood transfusion in Victoria. Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):584–6

The hepatitis B virus persists for decades after patients' recovery from acute viral hepatitis despite active maintenance of a cytotoxic T-lymphocyte response. Rehermann B, et al. **Nat Med** 1996 Oct;2(10):1104–8

Hepatitis B virus, the vaccine, and the control of primary cancer of the liver. Blumberg BS. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7121–5 (4 ref.)

Polymerase chain reaction to monitor repair of the HBV genome, the first step in viral replication. Maillard P, et al. **Res Virol** 1996 Jan-Feb;147(1):5–16

Minor role of hepatitis B and C virus infection in the etiology of hepatocellular carcinoma in a low-endemic area. Kaczynski J, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):809–13

Detection of HIV, hepatitis B and hepatitis C markers in discarded syringes and bloodstains. Cattaneo C, et al. **Sci Justice** 1996 Oct-Dec;36(4):271–4

Hepatitis B and C virus and hepatocellular carcinoma. Olubuyide IO, et al. **Trans R Soc Trop Med Hyg** 1997 Jan-Feb;91(1):38–41

[Prevalence of serological markers for viral hepatitis B and C in patients and medical personnel in the hematologic ward of Novosibirsk city hospital No. 2] Netesova IG, et al. **Vopr Virusol** 1997 Jan-Feb;42(1):27–30 (Eng. Abstr.) **(Rus)**

METABOLISM

Trans-activation of cellular genes by hepatitis B virus proteins: a possible mechanism of hepatocarcinogenesis. Caselmann WH. **Adv Virus Res** 1996;47:253–302 (323 ref.)

Enhanced core protein production by hepatitis B virus bearing a mutation in the precore region. Moriyama K. **Arch Virol** 1997;142(6):1263–71

Theoretical and experimental selection parameters for HBV-directed antisense RNA are related to increased RNA-RNA annealing. Patzel V, et al. **Biol Chem** 1997 Jun;378(6):539–43

Cellular and humoral immune response to hepatitis B virus structural proteins in mice after DNA-based immunization [see comments] Geissler M, et al. **Gastroenterology** 1997 Apr;112(4):1307–20. Comment in: Gastroenterology 1997 Apr;112(4):1410–4.

Isolation of highly purified, functional carboxy-terminally truncated hepatitis B virus middle surface protein activators from eucaryotic expression systems. Hildt E, et al. **Hepatology** 1996 Sep;24(3):502–7

Osthole increases glycosylation of hepatitis B surface antigen and suppresses the secretion of hepatitis B virus in vitro. Huang RL, et al. **Hepatology** 1996 Sep;24(3):508–15

A hepatitis B virus mutant with a new hepatocyte nuclear factor 1 binding site emerging in transplant-transmitted fulminant hepatitis B. Pult I, et al. **Hepatology** 1997 Jun; 25(6):1507–15

Hepatitis B virus binding to leucocyte plasma membranes utilizes a different region of the preS1 domain to the hepatocyte receptor binding site and does not require receptors for opsonins. Atkins GJ, et al. **Immunol Cell Biol** 1997 Jun;75(3):259–66

Hepatitis B virus X protein is a transcriptional modulator that communicates with transcription factor IIB and the RNA polymerase II subunit 5. Lin Y, et al. **J Biol Chem** 1997 Mar 14;272(11):7132–9

Importance of the C terminus of the hepatitis B virus precore protein in secretion of HBe antigen. Carlier D, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1041–5

Hepatitis B virus: specific binding and internalization of small HBsAg by human hepatocytes. de Bruin WC, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1047–50

Common localization of retention determinants in hepatitis B virus L protein from different strains. Gazina E, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3069–75

Hepatitis B virus preS1 functions as a transcriptional activation domain. Kim HS, et al. **J Gen Virol** 1997 May; 78 (Pt 5):1083–6

The inhibitory effects of antisense RNA on hepatitis B virus surface antigen synthesis. Wu J, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):641–7

Primary cultured normal human hepatocytes for hepatitis B virus receptor studies. Mabit H, et al. **J Hepatol** 1996 Apr; 24(4):403–12

Hepatitis B virus HBx protein induces transcription factor AP-1 by activation of extracellular signal-regulated and c-Jun N-terminal mitogen-activated protein kinases. Benn J, et al. **J Virol** 1996 Aug;70(8):4978–85

Proteasome complex as a potential cellular target of hepatitis B virus X protein. Huang J, et al. **J Virol** 1996 Aug; 70(8):5582–91

The small envelope protein is required for secretion of a naturally occurring hepatitis B virus mutant with pre-S1 deleted. Melegari M, et al. **J Virol** 1997 Jul;71(7):5449–54

Hepatitis B virus (HBV) envelope glycoproteins vary drastically in their sensitivity to glycan processing: evidence that alteration of a single N-linked glycosylation site can regulate HBV secretion. Mehta A, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1822–7

Interaction of transcription factors RFX1 and MIBP1 with the gamma motif of the negative regulatory element of the hepatitis B virus core promoter. Buckwold VE, et al. **Virology** 1997 Jan 20;227(2):515–8

Sequence-specific repression of cotranslational translocation of the hepatitis B virus envelope proteins coincides with binding of heat shock protein Hsc70. Löffler-Mary H, et al. **Virology** 1997 Aug 18;235(1):144–52

Both pre-S1 and S domains of hepatitis B virus envelope proteins interact with the core particle. Poisson F, et al. **Virology** 1997 Feb 3;228(1):115–20

PATHOGENICITY

Increasing evidence that hepatitis B virus X gene protein and p53 protein may interact in the pathogenesis of hepatocellular carcinoma. Kew MC. **Hepatology** 1997 Apr; 25(4):1037–8 (16 ref.)

Etiology and prognosis of cryptogenic liver cirrhosis: possible contribution of hepatitis B virus. Watanabe A, et al. **J Med** 1997;28(1-2):31–44

Organ and species specificity of hepatitis B virus (HBV) infection: a review of literature with a special reference to preferential attachment of HBV to human hepatocytes. De Meyer S, et al. **J Viral Hepat** 1997 May;4(3):145–53 (93 ref.)

Hepatitis B virus transcriptional activators: mechanisms and possible role in oncogenesis. Henkler F F, et al. **J Viral Hepat** 1996 May;3(3):109–21 (129 ref.)

PHYSIOLOGY

Virus inactivation in blood [editorial] Ben-Hur E, et al. **AIDS** 1996 Sep;10(11):1183–90

Hepatitis B virus morphogenesis. Nassal M. **Curr Top Microbiol Immunol** 1996;214:297–337 (167 ref.)

Suppressive effect of hepatitis B virus on the induction of interleukin-1 beta and interleukin-6 gene expression in the THP-1 human monocytic cell line. Oquendo J, et al.

Eur Cytokine Netw 1996 Dec;7(4):793–800

Viral replication in patients with concomitant hepatitis B and C virus infections. Crespo J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):445–51

Intracellular application of hairpin ribozyme genes against hepatitis B virus. Welch PJ, et al. **Gene Ther** 1997 Jul; 4(7):736–43

The hepatitis B virus X protein: the quest for a role in viral replication and pathogenesis. Seeger C. **Hepatology** 1997 Feb;25(2):496–8

Functions of the large hepatitis B virus surface protein in viral particle morphogenesis. Bruss V, et al. **Intervirology** 1996;39(1–2):23–31 (50 ref.)

Treatment of chronic hepatitis B (HBeAg–HBV DNA–positive) with lymphoblastoid alpha interferon with or without corticosteroids: short– and long–term follow–up. Zavaglia C, et al. **Ital J Gastroenterol** 1996 Jul–Aug;28(6):324–31

Two core promotor mutations identified in a hepatitis B virus strain associated with fulminant hepatitis result in enhanced viral replication. Baumert TF, et al. **J Clin Invest** 1996 Nov 15;98(10):2268–76

The degrees of hepatocyte nuclear but not cytoplasmic expression of hepatitis B core antigen reflect the level of viral replication in chronic hepatitis B virus infection. Chu CM, et al. **J Clin Microbiol** 1997 Jan;35(1):102–5

Effects of a frequent double–nucleotide basal core promoter mutation and its putative single–nucleotide precursor mutations on hepatitis B virus gene expression and replication. Buckwold VE, et al. **J Gen Virol** 1997 Aug; 78 (Pt 8):2055–65

Reactivated fulminant hepatitis B virus replication after bone marrow transplantation: clinical course and possible treatment with ganciclovir. Mertens T, et al. **J Hepatol** 1996 Dec;25(6):968–71

Hepatitis C virus is frequently coinfected with serum marker–negative hepatitis B virus: probable replication promotion of the former by the latter as demonstrated by in vitro cotransfection. Uchida T, et al. **J Med Virol** 1997 Aug;52(4):399–405

A double blind, placebo–controlled study to assess the effect of famciclovir on virus replication in patients with chronic hepatitis B virus infection. Main J, et al. **J Viral Hepat** 1996 Jul;3(4):211–5

The hepatitis B virus (HBV) precore protein inhibits HBV replication in transgenic mice. Guidotti LG, et al. **J Virol** 1996 Oct;70(10):7056–61

A host factor that binds near the termini of hepatitis B virus pregenomic RNA. Perri S, et al. **J Virol** 1996 Oct; 70(10):6803–9

A t(3;8) chromosomal translocation associated with hepatitis B virus intergration involves the carboxypeptidase N locus. Pineau P, et al. **J Virol** 1996 Oct;70(10):7280–4

Hepatitis B virus replication and mutation are autoregulated by interactions between surface antigen and HBeAg and the HBV DNA polymerase: a functional model with therapeutic implications. Sallie R. **Med Hypotheses** 1997 Jan;48(1):1–10

Aberrant trafficking of hepatitis B virus glycoproteins in cells in which N–glycan processing is inhibited. Lu X, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2380–5

Active replication of hepatitis B virus (HBV) in HIV type 1 and in HIV type 2 infected patients. Barros MF, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug;38(4):253–8

Treatment of hepatitis B virus replication by ganciclovir in kidney transplant patients. Garnier JL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):817

Is the DNA repair system involved in hepatitis–B–virus–mediated hepatocellular carcinogenesis? Butel JS, et al. **Trends Microbiol** 1996 Mar;4(3):119–24 (55 ref.)

Experimental confirmation of a hepatitis B virus (HBV) epsilon–like bulge–and–loop structure in avian HBV RNA encapsidation signals. Beck J, et al. **Virology** 1997 Jan 20; 227(2):500–4

Major differences between WHV and HBV in the regulation of transcription. Di Q, et al. **Virology** 1997 Mar 3; 229(1):25–35

pH–independent uptake of hepatitis B virus in primary human hepatocytes. Hagelstein J, et al. **Virology** 1997 Mar 3; 229(1):292–4

Activation of the HTLV–I long terminal repeat by the hepatitis B virus X protein. Marriott SJ, et al. **Virology** 1996 Oct 1;224(1):206–13

[Inhibition of hepatitis B virus replication in vitro by phosphorothioate and tetradecyl phosphorothioate analogs of antisense oligonucleotide directed against precore and core regions] Zhang S, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Feb;35(2):95–8 (Eng. Abstr.) **(Chi)**

[Clinical and virological evaluation of the detection of pre–S1 and pre–S2 antigens in serum from patients with chronic hepatitis B] Zoulim F, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):970–5 (Eng. Abstr.) **(Fre)**

HEPATITIS B VIRUS, DUCK

The guanine nucleoside analog penciclovir is active against chronic duck hepatitis B virus infection in vivo. Lin E, et al. **Antimicrob Agents Chemother** 1996 Feb;40(2):413–18

The role of recombinant human fusion protein IL–6/IL–2 (CH925) in hepadna virus infection treatment. Mi Z, et al. **Chin Med Sci J** 1995 Dec;10(4):210–3

CHEMISTRY

Use of dominant negative mutants of the hepadnaviral core protein as antiviral agents. Scaglioni P, et al. **Hepatology** 1996 Nov;24(5):1010–7

DRUG EFFECTS

Generation of duck hepatitis B virus polymerase mutants through site–directed mutagenesis which demonstrate resistance to lamivudine [(–)–beta–L–2',3'–dideoxy–3'–thiacytidine] in vitro. Fischer KP, et al. **Antimicrob Agents Chemother** 1996 Aug;40(8):1957–60

Inhibition of duck hepatitis B virus replication by 2',3'–dideoxy–3'–fluoroguanosine in vitro and in vivo. Hafkemeyer P, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):792–4

2',3'–dideoxy–beta–L–5–fluorocytidine inhibits duck hepatitis B virus reverse transcription and suppresses viral DNA synthesis in hepatocytes, both in vitro and in vivo. Zoulim F, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):448–53

In vitro antiviral activities of myristic acid analogs against human immunodeficiency and hepatitis B viruses. Parang K, et al. **Antiviral Res** 1997 May;34(3):75–90

Synergistic inhibition of hepadnaviral replication by lamivudine in combination with penciclovir in vitro [see comments] Colledge D, et al. **Hepatology** 1997 Jul; 26(1):216–25. Comment in: Hepatology 1997 Jul;26(1):234–7.

Long–term ganciclovir chemotherapy for congenital duck hepatitis B virus infection in vivo: effect on intrahepatic–viral DNA, RNA, and protein expression. Luscombe C, et al. **Hepatology** 1996 Oct;24(4):766–73

ENZYMOLOGY

Expression and characterization of hepadnavirus reverse transcriptases. Hu J, et al. **Methods Enzymol** 1996; 275:195–208

In situ DNA polymerase and RNase H activity gel assays as applied to hepadnavirus particles. Oberhaus SM, et al. **Methods Enzymol** 1996;275:328–47

Preparations of duck hepatitis B virions contain multiple DNA polymerase activities. Oberhaus SM, et al. **Virology** 1996 Dec 1;226(1):132–4

GENETICS

Interaction between ganciclovir and foscarnet as inhibitors of duck hepatitis B virus replication in vitro. Civitico G, et al. **Antimicrob Agents Chemother** 1996 May;40(5):1180–5

A novel transcriptional element in circular DNA monomers of the duck hepatitis B virus. Beckel–Mitchener A, et al. **J Virol** 1997 Oct;71(10):7917–22

Mutations within DR2 independently reduce the amount of both minus– and plus–strand DNA synthesized during duck hepatitis B virus replication. Loeb DD, et al. **J Virol** 1996 Dec;70(12):8684–90

Sequence identity of the terminal redundancies on the minus–strand DNA template is necessary but not sufficient for the template switch during hepadnavirus plus–strand DNA synthesis. Loeb DD, et al. **J Virol** 1997 Jan; 71(1):152–60

Previously unsuspected cis–acting sequences for DNA replication revealed by characterization of a chimeric heron/duck hepatitis B virus. Mueller–Hill K, et al. **J Virol** 1996 Dec;70(12):8310–7

Increase in the frequency of hepadnavirus DNA integrations by oxidative DNA damage and inhibition of DNA repair. Petersen J, et al. **J Virol** 1997 Jul;71(7):5455–63

A sensitive procedure for mapping the boundaries of RNA elements binding in vitro translated proteins defines a minimal hepatitis B virus encapsidation signal. Beck J, et al. **Nucleic Acids Res** 1996 Nov 1;24(21):4364–6

GROWTH & DEVELOPMENT

Monoclonal antibodies to a 55–kilodalton protein present in duck liver inhibit infection of primary duck hepatocytes with duck hepatitis B virus. Guo JT, et al. **J Virol** 1997 Jun;71(6):4829–31

IMMUNOLOGY

Recombinant vaccinia virus expressing Pre–S/S protein of duck hepatitis B virus and its preliminary use for treatment of persistent infection. Ma ZM, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):311–4

Immunological responsiveness of Pekin ducks to core antigen of duck hepatitis B virus. Heermann KH, et al. **Intervirology** 1995;38(6):316–24

Mapping of the cellular immune responses to woodchuck hepatitis core antigen epitopes in chronically infected woodchucks. Shanmuganathan S, et al. **J Med Virol** 1997 Jun;52(2):128–35

In vivo selection of duck hepatitis B virus pre–S variants which escape from neutralization. Sunyach C, et al. **Virology** 1997 Aug 4;234(2):291–9

ISOLATION & PURIFICATION

Demonstration of duck hepatitis B virus in bile duct epithelial cells: implications for pathogenesis and persistent infection. Nicoll AJ, et al. **Hepatology** 1997 Feb;25(2):463–9

Quantification of infectious duck hepatitis B virus by radioimmunofocus assay. Anderson DA, et al. **J Med Virol** 1997 Aug;52(4):354–61

METABOLISM

Sequence– and structure–specific determinants in the interaction between the RNA encapsidation signal and reverse transcriptase of avian hepatitis B viruses. Beck J, et al. **J Virol** 1997 Jul;71(7):4971–80

A novel transcriptional element in circular DNA monomers of the duck hepatitis B virus. Beckel–Mitchener A, et al. **J Virol** 1997 Oct;71(10):7917–22

Duck hepatitis B virus polymerase acts as a suppressor of core protein translation. Howe AY, et al. **J Virol** 1996 Aug; 70(8):5035–42

A functional hepatocyte nuclear factor 3 binding site is a critical component of the duck hepatitis B virus major surface antigen promoter. Welsheimer T, et al. **J Virol** 1996 Dec;70(12):8813–20

PATHOGENICITY

DHBV manipulation and prediction of the outcome of infection. Vickery K, et al. **J Hepatol** 1996 Oct;25(4):504–9

Kinetics of duck hepatitis B virus infection following low dose virus inoculation: one virus DNA genome is infectious in neonatal ducks. Jilbert AR, et al. **Virology** 1996 Dec 15;226(2):338–45

PHYSIOLOGY

Hepadnavirus assembly and reverse transcription require a multi–component chaperone complex which is incorporated into nucleocapsids. Hu J, et al. **EMBO J** 1997 Jan 2;16(1):59–68

Topology of the large envelope protein of duck hepatitis B virus suggests a mechanism for membrane translocation during particle morphogenesis. Guo JT, et al. **J Virol** 1997 Feb;71(2):1107–14

HEPATITIS B VIRUS, WOODCHUCK

Absence of mutations in the p53 tumor suppressor gene in woodchuck hepatocellular carcinomas associated with hepadnavirus infection and intake of aflatoxin B1. Rivkina M, et al. **Carcinogenesis** 1996 Dec;17(12):2689–94

Woodchuck hepatitis virus–induced carcinoma as a relevant natural model for therapy of human hepatoma. Gouillat C, et al. **J Hepatol** 1997 Jun;26(6):1324–30

Targeted delivery of antisense DNA in woodchuck hepatitis virus–infected woodchucks. Bartholomew RM, et al. **J Viral Hepat** 1995;2(6):273–8

Depletion of mitochondrial DNA, destruction of mitochondria, and accumulation of lipid droplets result from fialuridine treatment in woodchucks (Marmota monax). Lewis W, et al. **Lab Invest** 1997 Jan;76(1):77–87

DRUG EFFECTS

Heterogeneous response for a mammalian hepadnavirus infection to acyclovir: drug–arrested intermediates of minus–strand viral DNA synthesis are enveloped and secreted from infected cells as virion–like particles. Tencza MG, et al. **J Med Virol** 1997 Jan;51(1):6–16

GENETICS

Hepatocarcinogenesis in woodchuck hepatitis virus/c–myc mice: sustained cell proliferation and biphasic activation of insulin–like growth factor II. Liu P, et al. **Hepatology** 1997 Apr;25(4):874–83

The HNF1/HNF4–dependent We2 element of woodchuck hepatitis virus controls viral replication and can activate the N–myc2 promoter. Fourel G, et al. **J Virol** 1996 Dec; 70(12):8571–83

Partial characterization of the woodchuck tumor suppressor, p53, and its interaction with woodchuck hepatitis virus X antigen in hepatocarcinogenesis. Feitelson MA, et al. **Oncogene** 1997 Jul 17;15(3):327–36

The hepatitis B virus X gene potentiates c–myc–induced liver oncogenesis in transgenic mice. Terradillos O, et al. **Oncogene** 1997 Jan 30;14(4):395–404

IMMUNOLOGY

Virus–induced anti–asialoglycoprotein receptor autoimmunity in experimental hepadnaviral hepatitis. Diao J, et al. **Hepatology** 1997 Mar;25(3):689–96

Characterization of T–cell response to woodchuck hepatitis virus core protein and protection of woodchucks from infection by immunization with peptides containing a T–cell epitope. Menne S, et al. **J Virol** 1997 Jan;71(1):65–74

PHYSIOLOGY

Heterogeneous response for a mammalian hepadnavirus infection to acyclovir: drug–arrested intermediates of minus–strand viral DNA synthesis are enveloped and secreted from infected cells as virion–like particles. Tencza MG, et al. **J Med Virol** 1997 Jan;51(1):6–16

Woodchuck hepatitis virus X protein is present in chronically infected woodchuck liver and woodchuck hepatocellular carcinomas which are permissive for viral replication. Dandri M, et al. **J Virol** 1996 Aug;70(8):5246–54

HEPATITIS B VIRUS, WOODCHUCK

A hydrophobic heptad repeat of the core protein of woodchuck hepatitis virus is required for capsid assembly. Yu M, et al. **J Virol** 1996 Oct;70(10):7085–91

Major differences between WHV and HBV in the regulation of transcription. Di Q, et al. **Virology** 1997 Mar 3; 229(1):25–35

HEPATITIS C

Hepatitis C: seven years after the discovery of the causative agent. Verslype C, et al. **Acta Clin Belg** 1997;52(1):36–48 (108 ref.)

Acute massive postoperative pleural effusion associated with asymptomatic hepatitis C–induced cirrhosis of the liver. Hahn MH. **Am J Med Sci** 1997 Jul;314(1):47–50

Hepatitis C. Liddle C. **Anaesth Intensive Care** 1996 Apr; 24(2):180–3 (37 ref.)

Chronic viral hepatitis in childhood. Bortolotti F. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):185–206 (97 ref.)

Hepatitis B and C viruses and primary liver cancer. Brechot C. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):335–73 (237 ref.)

The natural history of hepatitis C. Colombo M. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):275–88 (75 ref.)

Hepatitis C virus infection and gastric lymphoproliferation in patients with Sjögren's syndrome [letter] Sorrentino D, et al. **Blood** 1997 Sep 1;90(5):2116–7

Storage of sperm and embryos. Storage facility exists for sperm from patients positive for antibody to hepatitis C virus [letter] Massey EJ, et al. **BMJ** 1996 Oct 26; 313(7064):1078

Should people with hepatitis C virus infection receive a bone marrow transplant? [editorial] Ribas A, et al. **Bone Marrow Transplant** 1997 Jan;19(2):97–9

Hepatitis C. Gully PR, et al. **Can Med Assoc J** 1997 May 15;156(10):1427–30 (14 ref.) **(Eng, Fre)**

Reciprocal interactions between human immunodeficiency virus and hepatitis C virus infections. Zylberberg H, et al. **Clin Infect Dis** 1996 Nov;23(5):1117–25 (97 ref.)

Interactions between alcohol and hepatitis viruses in the liver. Brechot C, et al. **Clin Lab Med** 1996 Jun;16(2):273–87 (135 ref.)

Ethanol and hepatocellular injury. French SW. **Clin Lab Med** 1996 Jun;16(2):289–306 (110 ref.)

Hepatitis B and C viruses and hepatocellular carcinoma. Kew MC. **Clin Lab Med** 1996 Jun;16(2):395–406 (73 ref.)

Chronic HCV infection: public health threat and emerging consensus. Vienna, Austria, October 27–28, 1995. **Dig Dis Sci** 1996 Dec;41(12 Suppl):1S–135S

Health assessment for chronic HCV infection: results of quality of life. Carithers RL Jr, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):75S–80S

Morbidity of chronic hepatitis C as seen in a tertiary care medical center. Lee DH, et al. **Dig Dis Sci** 1997 Jan; 42(1):186–91

Viruses and idiopathic pulmonary fibrosis [editorial; comment] Egan JJ, et al. **Eur Respir J** 1997 Jul;10(7):1433–7 (47 ref.). Comment on: Eur Respir J 1997 Jul;10(7):1445–9.

Hepatitis G virus infection in patients with hepatitis C virus infection undergoing liver transplantation. Berenguer M, et al. **Gastroenterology** 1996 Dec;111(6):1569–75

Hepatitis C and the controversies it creates relative to liver transplantation and autoimmune hepatitis. Bayraktar Y, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):873–81 (56 ref.)

Hepatitis C and hepatocellular carcinoma. Di Bisceglie AM. **Hepatology** 1997 Sep;26(3 Suppl 1):34S–38S (47 ref.)

Cryoglobulinemia and cutaneous leukocytoclastic vasculitis with hepatitis C virus infection. Buezo GF, et al. **Int J Dermatol** 1996 Feb;35(2):112–5

Hepatitis C virus infection in healthcare workers. Surgical Infection Society. Howard RJ, et al. **J Am Coll Surg** 1997 May;184(5):540–52 (114 ref.)

Prevalence of hepatitis C virus infection among female prostitutes in Fukuoka, Japan. Nakashima K, et al. **J Gastroenterol** 1996 Oct;31(5):664–8

Hepatitis C is focus of NIH consensus panel [news] Marwick C. **JAMA** 1997 Apr 23–30;277(16):1268–9

Hepatitis C virus infection: diagnosis, natural course and therapy. Tillmann HL, et al. **Kidney Blood Press Res** 1996; 19(3–4):215–9 (90 ref.)

Hepatitis C virus (HCV) infection and disease in nephrology, dialysis and transplantation. Proceedings of the GAMBRO annual symposium. Saint-Etienne, France, September 14–15, 1995. **Nephrol Dial Transplant** 1996;11 Suppl 4:1–64

Hepatitis C in pregnancy. Hunt CM, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):883–90 (85 ref.)

Hepatitis C infections. Flynn PM. **Pediatr Ann** 1996 Sep; 25(9):496–500

Hepatitis C virus: biological and clinical consequences of genetic heterogeneity. Cooreman MP, et al. **Scand J Gastroenterol Suppl** 1996;218:106–15 (86 ref.)

A 1990s perspective of hepatitis C, human immunodeficiency virus, and tuberculosis infections in dialysis patients. Murthy BV, et al. **Semin Nephrol** 1997 Jul;17(4):346–63 (185 ref.)

Chronic hepatitis C. Sharara AI. **South Med J** 1997 Sep; 90(9):872–7 (33 ref.)

Failure to find an association between hepatitis C virus and thyroid autoimmunity. Metcalfe RA, et al. **Thyroid** 1997 Jun;7(3):421–4

[Consensus development conference. Hepatitis C: Screening and Treatment. Paris, France, 16–17 January 1997] **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S1–216 (0 ref.) **(Fre)**

[Consensus conference—short text. Hepatitis C: screening and treatment] **Presse Med** 1997 Feb 8;26(3):126–8 (0 ref.) **(Fre)**

[Interferon therapy in cryoglobulinemic membranoproliferative glomerulonephritis associated with hepatitis C (letter; comment)] Jakab L. **Orv Hetil** 1997 Jan 5;138(1):43–4. Comment on: Orv Hetil 1996 Nov 10;137(45):2527–30. **(Hun)**

[Hepatitis C] Gattoni A, et al. **Clin Ter** 1996 Sep; 147(9):413–38 (157 ref.) (Eng. Abstr.) **(Ita)**

[The hepatitis C virus] Bonardi R, et al. **Minerva Med** 1997 May;88(5):187–95 (46 ref.) (Eng. Abstr.) **(Ita)**

[Basic and clinical aspects of hepatitis virus carriers] Shimoyama R, et al. **Hokkaido Igaku Zasshi** 1996 Jul; 71(4):427–48 (67 ref.) (Eng. Abstr.) **(Jpn)**

[Treatment of chronic hepatitis C: still many problems pending] Bruguera M. **Gastroenterol Hepatol** 1997 Jan; 20(1):31–42 (162 ref.) **(Spa)**

[Hepatitis C in children. The infection affects mostly risk groups and its potentially curable] Fischler B, et al. **Lakartidningen** 1997 Mar 5;94(10):845–6, 851 (45 ref.) **(Swe)**

BLOOD

Serum aminotransferase levels and histological disease in chronic hepatitis C. Michielsen PP, et al. **Acta Gastroenterol Belg** 1997 Jan–Mar;60(1):11–4

Blood lipids of patients with chronic hepatitis: differences related to viral etiology. Fabris C, et al. **Clin Chim Acta** 1997 May 28;261(2):159–65

Plasma levels of transforming growth factor beta 1 in chronic liver disease [letter] Hayasaka A, et al. **Clin Chim Acta** 1996 Jan 15;244(1):117–9

Plasma vitronectin concentrations in patients with chronic hepatitis C treated with interferon alpha. Yamada S, et al. **Clin Chim Acta** 1997 May 6;261(1):81–90

Quantitative detection of hepatitis C virus RNA in the serum of patients with chronic hepatitis C treated with interferon: a pilot study. Flichman D, et al. **Clin Diagn Virol** 1997 May;8(1):63–70

Serum soluble CD23 but not IL8, IL10, GM-CSF, or IFN-gamma is elevated in patients with hepatitis C infection. Bansal AS, et al. **Clin Immunol Immunopathol** 1997 Aug;84(2):139–44

Prevalence and clinical expression of HCV-genotypes in haemodialysis-patients of two geographically remote countries: Belgium and Saudi-Arabia. Bosmans JL, et al. **Clin Nephrol** 1997 Apr;47(4):256–62

Serum beta2-microglobulin in chronic hepatitis C. Malaguarnera M, et al. **Dig Dis Sci** 1997 Apr;42(4):762–6

Effect of interferon-beta on thyroid function in patients of chronic hepatitis C without preexisting autoimmune thyroid disease. Nagai Y, et al. **Endocr J** 1996 Oct; 43(5):545–9

Quantitative analysis of HCV RNA and genotype in patients with chronic hepatitis C accompanied by oral lichen planus. Nagao Y, et al. **Eur J Clin Invest** 1996 Jun;26(6):495–8

Diminished plasma levels of vitamin E in patients with severe viral hepatitis. von Herbay A, et al. **Free Radic Res** 1996 Dec;25(6):461–6

Elevation of serum soluble interleukin-2 receptor levels in patients with hepatitis C virus infection. Kawakami Y, et al. **Fukuoka Igaku Zasshi** 1997 Jul;88(7):274–82

Quantification of serum hepatitis C virus core protein level in patients chronically infected with different hepatitis C virus genotypes. Orito E, et al. **Gut** 1996 Dec;39(96):876–80

Serum hyaluronate predicts response to interferon-alpha therapy in patients with chronic hepatitis C. Ueno T, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):522–7

Circulating soluble intercellular adhesion molecule-1 in type C viral hepatitis. Yang SS, et al. **Hepatogastroenterology** 1996 May–Jun;43(9):575–81

Hypervariable region sequence in cryoglobulin-associated hepatitis C virus in sera of patients with chronic hepatitis C: relationship to antibody response against hypervariable region genome. Aiyama T, et al. **Hepatology** 1996 Dec; 24(6):1346–50

Low lipoprotein (a) levels during acute viral hepatitis. Geiss HC, et al. **Hepatology** 1996 Dec;24(6):1334–7

Therapy of hepatitis C: patients with normal aminotransferase levels. Marcellin P, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):133S–136S (19 ref.)

Interferon alpha induces disorder of lipid metabolism by lowering postheparin lipases and cholesteryl ester transfer protein activities in patients with chronic hepatitis C. Shinohara E, et al. **Hepatology** 1997 Jun;25(6):1502–6

Effects of the Japanese herbal medicine "Sho-saiko-to" (TJ-9) on in vitro interleukin-10 production by peripheral blood mononuclear cells of patients with chronic hepatitis C. Yamashiki M, et al. **Hepatology** 1997 Jun;25(6):1390–7

Alcohol intake increases hepatitis C virus-induced hepatocellular injury. Katakami Y, et al. **Intern Med** 1995 Dec;34(12):1153–7

Serum cholesterol and chronic hepatitis C. Maggi G, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):436–40

Quantitative analysis of the peripheral blood cytotoxic T lymphocyte response in patients with chronic hepatitis C virus infection. Rehermann B, et al. **J Clin Invest** 1996 Sep 15;98(6):1432–40

Elevation of interleukin 6 levels in patients with chronic hepatitis due to hepatitis C virus. Malaguarnera M, et al. **J Gastroenterol** 1997 Apr;32(2):211–5

Cold activation of complement in sera from patients with persistent hepatitis C virus infection on interferon therapy. Aikawa T, et al. **J Gastroenterol Hepatol** 1996 Apr; 11(4):341–6

Chronic hepatitis C: effect of alcohol on hepatitic activity and viral titre. Cromie SL, et al. **J Hepatol** 1996 Dec; 25(6):821–6

Haptoglobin polymorphism and chronic hepatitis C. Louagie HK, et al. **J Hepatol** 1996 Jul;25(1):10–4

Interleukin-1 receptor antagonist plasma concentration is specifically increased by alpha-2A-interferon treatment. Naveau S, et al. **J Hepatol** 1997 Aug;27(2):272–5

Serum interleukin 4 and interleukin 10 levels in patients with chronic hepatitis C virus infection. Reiser M, et al. **J Hepatol** 1997 Mar;26(3):471–8

Circulating immune complex of hepatitis virus C in patients with acute and chronic hepatitis C [letter] Tomiya T, et al. **J Hepatol** 1996 Jun;24(6):764

Decreased nitric oxide production in chronic viral hepatitis B and C. Amaro MJ, et al. **J Med Virol** 1997 Apr; 51(4):326–31

Evaluation of two simplified methods for genotyping hepatitis C virus. Khan RU, et al. **J Med Virol** 1997 May; 52(1):35–41

Nucleotide sequence variation in the hypervariable region of the hepatitis C virus in the sera of chronic hepatitis C patients undergoing controlled interferon-alpha therapy. Yeh BI, et al. **J Med Virol** 1996 Jun;49(2):95–102

Transforming growth factor-beta 1 in chronic hepatitis C. Nelson DR, et al. **J Viral Hepat** 1997 Jan;4(1):29–35

Reduced glutathione concentration in erythrocytes of patients with acute and chronic viral hepatitis. Swiętek K, et al. **J Viral Hepat** 1997 Mar;4(2):139–41

Direct blotting electrophoresis for sequencing and genotyping hepatitis C virus. Castelain S, et al. **J Virol Methods** 1997 May;65(2):237–43

Serum alanine aminotransferase level in relation to hepatitis B and C virus infections among blood donors. Tsai JF, et al. **Liver** 1997 Feb;17(1):24–9

Relationships between plasma ferritin and aminotransferase profile in haemodialysis patients with hepatitis C virus. Caramelo C, et al. **Nephrol Dial Transplant** 1996 Sep; 11(9):1792–6

Influence of hepatitis C virus (HCV) viraemia upon serum aminotransferase activity in chronic dialysis patients. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Jul; 12(7):1394–8

Interleukin-6 in hepatitis C cirrhosis. Malaguarnera M, et al. **Panminerva Med** 1996 Dec;38(4):207–10

Interdependence between Zn and Cu serum concentrations and serum immunoglobulins (IgA, IgM, IgG) in liver diseases. Tănăsescu C, et al. **Rom J Intern Med** 1996 Jul–Dec;34(3–4):217–24

Variations of zinc in acute and chronic hepatitis (preliminary data). Tănăsescu C, et al. **Rom J Intern Med** 1996 Jan–Jun; 34(1–2):79–84

Non-invasive assessment of inflammatory activity and fibrosis (grade and stage) in chronic hepatitis C infection. Verbaan H, et al. **Scand J Gastroenterol** 1997 May; 32(5):494–9

Infective, chronic carriers of hepatitis C virus among blood donors with no history of clinical hepatitis. Larsen J, et al. **Transfus Med** 1991 Mar;1(1):13–6

At least three hepatitis C virus strains implicated in Swedish and Danish patients with intravenous immunoglobulin-associated hepatitis C. Widell A, et al. **Transfusion** 1997 Mar;37(3):313–20

Clinical hepatitis after transplantation of hepatitis C virus-positive kidneys: HLA-DR3 as a risk factor for the development of posttransplant hepatitis. Kirk AD, et al. **Transplantation** 1996 Dec 27;62(12):1758–62

Hepatitis G virus coinfection in hepatitis C virus-infected liver transplant recipients. Vargas HE, et al. **Transplantation** 1997 Sep 15;64(5):786–8

Combination of serological markers to predict the presence or absence of viremia in HCV-seropositive blood donors. Gérard C, et al. **Vox Sang** 1996;71(1):58–60

Collaborative study to assess the suitability of an HCV RNA reference sample for detection of an HCV RNA in plasma pools by PCR. Saldanha J, et al. **Vox Sang** 1996; 70(3):148–51

[A three-year follow-up study of hepatitis C virus infected individuals from Beixie village, Gu-an county, Hebel province, China] Tang SX, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):145–7 (Eng. Abstr.) **(Chi)**

[Mixed cryoglobulins and autoimmunity in hepatitis C] Tridon A, et al. **Pathol Biol (Paris)** 1997 Apr;45(4):291–7 (Eng. Abstr.) **(Fre)**

[Hepatitis C virus infection and primary mixed cryoglobulinemia] Safadi R, et al. **Harefuah** 1996 Jun 16; 130(12):833–6 (32 ref.) **(Heb)**

[Serum variations of 2 markers of fibrogenesis in chronic hepatitis C treated with alpha interferon] Soresi M, et al. **Recenti Prog Med** 1997 Feb;88(2):73–6 (Eng. Abstr.) **(Ita)**

[Cryoglobulinemia associated with hepatitis C-related chronic liver disease in Japan] Tomoe M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):241–8

(Eng. Abstr.) **(Jpn)**
[Level of beta 2-microglobulin in serum of patients with acute viral hepatitis types A, B and C] Tomasiewicz K, et al. **Przegl Epidemiol** 1996;50(3):259-64 (Eng. Abstr.) **(Pol)**
[Etiology of chronic hepatitis as evaluated by liver biopsy and serum samples submitted to the Department of Immunopathology of the National Institute of Hygiene in 1993-1995] Walewska-Zielecka B, et al. **Przegl Epidemiol** 1996;50(4):353-63 (Eng. Abstr.) **(Pol)**
[Anti-HVC IgM as maker of chronic hepatitis C in hemophiliacs (letter)] Aguilar Franco C, et al. **Rev Clin Esp** 1996 Nov;196(11):799-800 **(Spa)**

CLASSIFICATION

The clinical value of grading and staging scores for predicting a long-term response and evaluating the efficacy of interferon therapy in chronic hepatitis C. Shindo M, et al. **J Hepatol** 1997 Mar;26(3):492-7
Current anatomico-pathological classification of hepatitis: characteristics of HCV infection. Mosnier JF. **Nephrol Dial Transplant** 1996;11 Suppl 4:12-5 (10 ref.)

COMPLICATIONS

Hepatitis C viraemia in HIV-infected patients. Hepatitis-HIV Spanish Study Group [letter; comment] Soriano V, et al. **AIDS** 1996 Jul;10(8):922-3. Comment on: AIDS 1995 Oct;9(10):1131-6.
Relapses of chronic hepatitis C in HIV-infected patients who responded to interferon therapy. Hepatitis/HIV Spanish Study Group [letter] Soriano V, et al. **AIDS** 1997 Mar; 11(3):400-1
Qualitative hepatic venous Doppler sonography versus portal flowmetry in predicting the severity of esophageal varices in hepatitis C cirrhosis. Gorka W, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):511-5
A prospective study on hepatocellular carcinoma in liver cirrhosis: respective roles of alcohol and hepatitis C virus infection. Miyakawa H, et al. **Alcohol Alcohol** 1994;29 Suppl 1:75-9
Hepatic glutathione deficiency in chronic hepatitis C: quantitative evaluation in patients who are HIV positive and HIV negative and correlations with plasmatic and lymphocytic concentrations and with the activity of the liver disease. Barbaro G, et al. **Am J Gastroenterol** 1996 Dec;91(12):2569-73
Utility of a discriminant score for diagnosing advanced fibrosis or cirrhosis in patients with chronic hepatitis C virus infection. Bonacini M, et al. **Am J Gastroenterol** 1997 Aug;92(8):1302-4
Thrombocytopenia associated with hepatitis C: is it real? Chalasani N, et al. **Am J Gastroenterol** 1997 Jul; 92(7):1234-5
Extrahepatic manifestations of hepatitis C virus infection [letter; comment] Durand JM. **Am J Gastroenterol** 1997 Aug;92(8):1402. Comment on: Am J Gastroenterol 1997 Jan;92(1):3-17.
Influence of hepatitis C virus genotypes and HIV infection on histological severity of chronic hepatitis C. The Hepatitis/HIV Spanish Study Group. García-Samaniego J, et al. **Am J Gastroenterol** 1997 Jul;92(7):1130-4
Long course and prognostic factors of virus-induced cirrhosis of the liver. Gentilini P, et al. **Am J Gastroenterol** 1997 Jan;92(1):66-72
Iron overload in patients with chronic viral hepatitis: how common is it? Riggio O, et al. **Am J Gastroenterol** 1997 Aug;92(8):1298-1301
Immunosuppression may lead to progression of hepatitis C virus-associated liver disease in hemophiliacs coinfected with HIV. Rockstroh JK, et al. **Am J Gastroenterol** 1996 Dec;91(12):2563-8
Hepatitis C-associated cryoglobulinemia presenting with pericardial effusion. Safadi R, et al. **Am J Gastroenterol** 1997 Apr;92(4):710-2 (10 ref.)
Acute hepatitis type C co-infected with GBV-C treated with interferon [letter] Suzuki H, et al. **Am J Gastroenterol** 1996 Dec;91(12):2651-2
Extrahepatic manifestations of chronic viral hepatitis [see comments] Willson RA. **Am J Gastroenterol** 1997 Jan; 92(1):3-17 (170 ref.). Comment in: Am J Gastroenterol 1997 Aug;92(8):1402.
Increased risk of hepatocellular carcinoma in patients infected with hepatitis C genotype 1b. Zein NN, et al. **Am J Gastroenterol** 1996 Dec;91(12):2560-2
Primary non-Hodgkin's lymphoma of the liver in a patient with hepatitis B, C, HIV infections [letter] Bauduer F, et al. **Am J Hematol** 1997 Mar;54(3):265
MALT non-Hodgkin's lymphoma associated with hepatitis C virus infection treated by interferon alpha [letter] Bauduer F. **Am J Hematol** 1996 Nov;53(3):209
High prevalence of hepatitis C virus infection in patients with B-cell lymphoproliferative disorders in Italy. De Rosa G, et al. **Am J Hematol** 1997 Jun;55(2):77-82
Hepatitis C virus infection in Waldenström's macroglobulinemia [letter] Izumi T, et al. **Am J Hematol** 1996 Jul;52(3):238-9
Autoimmune thrombocytopenia and hepatitis C virus infection [letter] Linares M, et al. **Am J Hematol** 1996 Dec; 53(4):284
Fibrillary glomerulonephritis associated with hepatitis C viral infection. Coroneos E, et al. **Am J Kidney Dis** 1997 Jan; 29(1):132-5 (15 ref.)
The impact of renal transplantation on survival in hepatitis C-positive end-stage renal disease patients. Knoll GA, et al. **Am J Kidney Dis** 1997 Apr;29(4):608-14
Response to high-dose interferon-alpha after failure of standard therapy in MPGN associated with hepatitis C virus infection. Sarac E, et al. **Am J Kidney Dis** 1997 Jul; 30(1):113-5
Immune complex glomerulonephritis in patients coinfected with human immunodeficiency virus and hepatitis C virus. Stokes MB, et al. **Am J Kidney Dis** 1997 Apr;29(4):514-25
Hepatitis C-associated osteosclerosis: an unusual syndrome of acquired osteosclerosis in adults. Hassoun AA, et al. **Am J Med** 1997 Jul;103(1):70-3
Porphyria cutanea tarda in a dialyzed patient with hepatitis C virus infection: dramatic efficacy of small repeated phlebotomies. Poux JM, et al. **Am J Med** 1997 Aug; 103(2):163-4
Hepatitis C-associated osteosclerosis after blood transfusion. Whyte MP, et al. **Am J Med** 1997 Feb;102(2):219-20
Pure red cell aplasia associated with hepatitis C infection. al-Awami Y, et al. **Am J Med Sci** 1997 Aug;314(2):113-7 (48 ref.)
Mixed cryoglobulinemia and membranoproliferative glomerulonephritis associated with hepatitis C virus infection [letter] Lopes E, et al. **Ann Intern Med** 1996 Nov 1;125(9):781-2
Hepatitis C and cancer [letter; comment] Marinella MA, et al. **Ann Intern Med** 1997 Jun 15;126(12):1002-3. Comment on: Ann Intern Med 1996 Oct 15;125(8):658-68.
Influence of hepatitis G virus infection on the severity of liver disease and response to interferon-alpha in patients with chronic hepatitis C. Martinot M, et al. **Ann Intern Med** 1997 Jun 1;126(11):874-81
Effect of hepatitis G virus infection on chronic hepatitis C [see comments] Tanaka E, et al. **Ann Intern Med** 1996 Nov 1;125(9):740-3. Comment in: Ann Intern Med 1996 Nov 1;125(9):772-3.
Hepatitis C virus infection in patients with B-cell non-Hodgkin lymphoma. Zuckerman E, et al. **Ann Intern Med** 1997 Sep 15;127(6):423-8
Primary hepatic lymphoma associated with chronic hepatitis C. Andres E, et al. **Ann Med Interne (Paris)** 1997; 148(3):280-3 (18 ref.)
Hepatitis C virus infection in patients with psoriasis [letter] Kanazawa K, et al. **Arch Dermatol** 1996 Nov; 132(11):1391-2
Viral RNA in duodenal bile of cirrhotic patients with chronic hepatitis C. Kuan SF, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):847-52
Dermatomyositis, hepatocarcinoma, and hepatitis C: comment on the article by Weidensaul et al [letter] Gomez A, et al. **Arthritis Rheum** 1997 Feb;40(2):394-5
Hepatitis C and mixed cryoglobulinaemia: a case of primary gastrointestinal necrotising vasculitis [letter] Garas G, et al. **Aust N Z J Med** 1996 Feb;26(1):110-1
The effect of light drinking on HCV liver disease: the jury is still out. Sachithanandan S, et al. **Biomed Pharmacother** 1997;51(6-7):295-7
Characterization of overt B-cell lymphomas in patients with hepatitis C virus infection. De Vita S, et al. **Blood** 1997 Jul 15;90(2):776-82
Hepatitis C and G virus infection and liver dysfunction after allogeneic bone marrow transplantation: results from a prospective study. Rodriguez-Iñigo E, et al. **Blood** 1997 Aug 1;90(3):1326-31
Lack of preferential localization of tumoral mass in B-cell non-Hodgkin's lymphoma associated with hepatitis C virus infection [letter] Zignego AL, et al. **Blood** 1997 Apr 15; 89(8):3066-8
Acquired osteosclerosis associated with intravenous drug use and hepatitis C infection. Diamond T, et al. **Bone** 1996 Dec;19(6):679-83
Effect of hepatitis C and B virus infection on risk of hepatocellular carcinoma: a prospective study. Tsai JF, et al. **Br J Cancer** 1997;76(7):968-74
Leucocytoclastic vasculitis associated with mixed cryoglobulinaemia and hepatitis C virus infection. Abe Y, et al. **Br J Dermatol** 1997 Feb;136(2):272-4
Urticarial vasculitis [letter; comment] Lin RY. **Br J Dermatol** 1996 Dec;135(6):1016. Comment on: Br J Dermatol 1995 May;132(5):821-3.
Urticaria and hepatitis C [letter] Smith R, et al. **Br J Dermatol** 1997 Jun;136(6):980
Hepatitis C virus infection and nodular prurigo [letter] Yamamoto T, et al. **Br J Dermatol** 1996 Sep;135(3):499
A combined management protocol for patients with coagulation disorders infected with hepatitis C virus. Ahmed MM, et al. **Br J Haematol** 1996 Nov;95(2):383-8
Rarity of microsatellite genomic instability in B-cell non-Hodgkin's lymphomas in hepatitis C virus-infected patients. De Vita S, et al. **Br J Haematol** 1997 May; 97(2):463-5
Prevalence of HCV infection and second neoplasms in marginal zone lymphomas [letter; comment] Luppi M, et al. **Br J Haematol** 1997 Mar;96(4):873-4. Comment on: Br J Haematol 1997 Feb;96(2):427-8.
Hepatitis C virus and non-Hodgkin's lymphomas. Mazzaro C, et al. **Br J Haematol** 1996 Sep;94(3):544-50
Hepatitis C virus infection (and additional neoplasms) among marginal zone lymphomas [letter] [see comments] Silvestri F, et al. **Br J Haematol** 1997 Feb;96(2):427-8. Comment in: Br J Haematol 1997 Mar;96(4):873-4.
Absence of hepatitis C virus infection in non-Hodgkin's lymphoma [letter] Thalen DJ, et al. **Br J Haematol** 1997 Mar;96(4):880-1
Interstitial lung fibrosis and rheumatic disorders in patients with hepatitis C virus infection. Ferri C, et al. **Br J Rheumatol** 1997 Mar;36(3):360-5
Relationship between the recurrence of hepatocellular carcinoma (HCC) and serum alanine aminotransferase levels in hepatectomized patients with hepatitis C virus-associated cirrhosis and HCC. Tarao K, et al. **Cancer** 1997 Feb 15;79(4):688-94
Chronic variant of myocarditis associated with hepatitis C virus infection. Okabe M, et al. **Circulation** 1997 Jul 1; 96(1):22-4
The association of hepatitis C viral infection with porphyria cutanea tarda in the Lothian region of Scotland. Hussain I, et al. **Clin Exp Dermatol** 1996 Jul;21(4):283-5
Lack of association between chronic hepatitis C virus infection and Behçet's disease [letter] Cantini F, et al. **Clin Exp Rheumatol** 1997 May-Jun;15(3):338-9
Immune complex mediated vasculitis in hepatitis B and C infections and the effect of antiviral therapy. Nityanand S, et al. **Clin Immunol Immunopathol** 1997 Mar;82(3):250-7
Spontaneous bacterial empyema in a patient with hepatitis C virus cirrhosis and sterile ascitic fluid. Malnick SD, et al. **Clin Infect Dis** 1996 Oct;23(4):834-5
Interferon alpha for the treatment of chronic hepatitis C in patients infected with human immunodeficiency virus. Hepatitis-HIV Spanish Study Group. Soriano V, et al. **Clin Infect Dis** 1996 Sep;23(3):585-91
Hepatitis C and porphyria cutanea tarda. English JC 3rd, et al. **Cutis** 1996 Jun;57(6):404-8 (35 ref.)
Extrahepatic manifestations of hepatitis C. Gordon SC. **Dig Dis** 1996 May-Jun;14(3):157-68 (63 ref.)
Risk factors and prevention of hepatocellular carcinoma in HCV infection. Benvegnù L, et al. **Dig Dis Sci** 1996 Dec; 41(12 Suppl):49S-55S
Nonhepatic manifestations and combined diseases in HCV infection. Hadziyannis SJ. **Dig Dis Sci** 1996 Dec;41(12 Suppl):63S-74S (154 ref.)
Pruritis in chronic hepatitis C: association with high serum bile acids, advanced pathology, and bile duct abnormalities. Lebovics E, et al. **Dig Dis Sci** 1997 May;42(5):1094-9
Renal failure associated with hepatitis C virus infection. Improvement in renal function after treatment with interferon-alpha. Moses PL, et al. **Dig Dis Sci** 1997 Feb; 42(2):443-6
Patterns of progression: unpredictability and risk of decompensated cirrhosis. Tassopoulos NC. **Dig Dis Sci** 1996 Dec;41(12 Suppl):41S-48S (46 ref.)
Chronic hepatitis C and autoimmunity: good response to immunosuppressive treatment. Tran A, et al. **Dig Dis Sci** 1997 Apr;42(4):778-80
Hepatitis B virus markers, hepatitis D virus antigen and hepatitis C virus antibodies in Nigerian patients with chronic liver disease. Ojo OS, et al. **East Afr Med J** 1995 Nov;72(11):719-21
The occurrence of hepatitis B and C viruses in Pakistani patients with chronic liver disease and hepatocellular carcinoma. Tong CY, et al. **Epidemiol Infect** 1996 Oct; 117(2):327-32
Type C hepatitis and chronic lymphocytic leukaemia [letter] La Civita L, et al. **Eur J Cancer** 1996 Sep;32A(10):1819-20
Viral hepatitis and liver cancer: new opportunities for prevention. Bosch FX. **Eur J Cancer Prev** 1996 Oct; 5(5):408-9 (0 ref.)
Hepatitis C virus and hepatocellular carcinoma [editorial] Giacosa A, et al. **Eur J Cancer Prev** 1996 Dec;5(6):423-4 (5 ref.)
Quantitative analysis of HCV RNA and genotype in patients with chronic hepatitis C accompanied by oral lichen planus. Nagao Y, et al. **Eur J Clin Invest** 1996 Jun;26(6):495-8
Peripancreatic lymphoadenopathy and extrahepatic immunological manifestations in chronic hepatitis C. Neri S, et al. **Eur J Clin Invest** 1996 Aug;26(8):665-7
Primary hepatic lymphoma in a man with chronic hepatitis C. Clarke G, et al. **Eur J Gastroenterol Hepatol** 1997 Jan; 9(1):87-90
Jaundice at onset signifies a good prognosis in anti-D-associated HCV infection. Sachithanandan S, et al. **Eur J Gastroenterol Hepatol** 1997 Jan;9(1):77-9
Rapidly progressive hepatitis C in a patient with common variable immunodeficiency. Sumazaki R, et al. **Eur J Pediatr** 1996 Jul;155(7):532-4
High prevalence of diabetes mellitus in patients with chronic hepatitis C. A case-control study. Grimbert S, et al. **Gastroenterol Clin Biol** 1996;20(6-7):544-8
Can interferon prevent hepatocellular carcinoma in hepatitis C virus-induced cirrhosis? Grimm I, et al. **Gastroenterology** 1996 Jun;110(6):2019-21
The relative roles of hepatitis B and C viruses in the etiology of hepatocellular carcinoma in southern African blacks. Kew MC, et al. **Gastroenterology** 1997 Jan;112(1):184-7
Association between chronic hepatitis C infection and hepatocellular carcinoma in a Scottish population. Haydon GH, et al. **Gut** 1997 Jan;40(1):128-32
Hope for haemophilic patients with hepatitis [comment] Lee CA. **Gut** 1996 Dec;39(96):887-8. Comment on: Gut 1996 Dec;39(96):870-5.
Liver transplantation for haemophiliacs with hepatitis C cirrhosis [see comments] McCarthy M, et al. **Gut** 1996 Dec;

39(96):870–5. Comment in: Gut 1996 Dec;39(96):887–8.
Liver involvement during HCV infection in chronic lymphoproliferative diseases [letter; comment] Andriani A, et al. **Haematologica** 1996 Nov–Dec;81(6):589–90. Comment on: Haematologica 1996 Mar–Apr;81(2):162–4.
Rapid liver failure related to chronic C hepatitis in an HIV seropositive hemophilic patient with severe immunodepression. Dragoni F, et al. **Haematologica** 1996 Jul–Aug;81(4):335–8
Interferon treatment of porphyria cutanea tarda associated with chronic hepatitis type C. Okano J, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):525–8
Is hepatitis C virus a sialodacryoadenitis virus? Agnello V, et al. **Hepatology** 1997 Aug;26(2):509–10
Hepatitis G virus co–infection does not alter the course of recurrent hepatitis C virus infection in liver transplantation recipients. Cotler SJ, et al. **Hepatology** 1997 Aug; 26(2):432–6
Hepatitis C: the clinical spectrum of disease. Hoofnagle JH. **Hepatology** 1997 Sep;26(3 Suppl 1):15S–20S (47 ref.)
Association of seropositivity for hepatitis viruses and aplastic anemia in Thailand. Issaragrisil S, et al. **Hepatology** 1997 May;25(5):1255–7
Long–term evolution of fibrosis from chronic hepatitis to cirrhosis in patients with hepatitis C: morphometric analysis of repeated biopsies. Kage M, et al. **Hepatology** 1997 Apr; 25(4):1028–31
Clinical hepatology: alcoholic liver disease, not viral hepatitis, predominates in South Wales [letter; comment] Kingham JG. **Hepatology** 1997 May;25(5):1297. Comment on: Hepatology 1996 Oct;24(4):813–5.
Chronic viral hepatitis induced by hepatitis C but not hepatitis B virus infection correlates with increased liver angiogenesis. Mazzanti R, et al. **Hepatology** 1997 Jan; 25(1):229–34
Hepatitis C virus genotype 1b and risk of hepatocellular carcinoma [letter] Romeo R, et al. **Hepatology** 1997 Oct; 26(4):1077
Epidemiological factors affecting the severity of hepatitis C virus–related liver disease: a French survey of 6,664 patients. The Study Group for the Prevalence and the Epidemiology of Hepatitis C Virus. Roudot–Thoraval F, et al. **Hepatology** 1997 Aug;26(2):485–90
Therapy of hepatitis C: patients with cirrhosis. Schalm SW, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):128S–132S (13 ref.)
Hepatitis C and alcohol. Schiff ER. **Hepatology** 1997 Sep;26(3 Suppl 1):39S–42S (24 ref.)
Chronic hepatitis C: beware the older drinking male: fibrosis progression beckons! Seeff LB. **Hepatology** 1997 Oct; 26(4):1074–6
Hepatitis C virus, antiphospholipid antibodies, and thrombosis [letter; comment] Violi F, et al. **Hepatology** 1997 Mar;25(3):782. Comment on: Hepatology 1996 Feb;23(2):199–204.
Presence of antibodies to the hepatitis B surface antigen is associated with an excess risk for hepatocellular carcinoma among non–Asians in Los Angeles County, California [published erratum appears in Hepatology 1997 May;25(5):1298] Yu MC, et al. **Hepatology** 1997 Jan; 25(1):226–8
Primary effusion Burkitt's lymphoma with t(8;22) in a patient with hepatitis C virus–related cirrhosis. Ascoli V, et al. **Hum Pathol** 1997 Jan;28(1):101–4
Iron overload in patients with chronic hepatitis C: a clinicopathologic study. Haque S, et al. **Hum Pathol** 1996 Dec;27(12):1277–81
Co–infection with GB virus C in an area of high endemicity for human T–lymphotropic virus type I in Japan [letter] Chiyoda S, et al. **Infection** 1997 Mar–Apr;25(2):129–30
Hepatitis–C–virus infection and cancer [letter] Ferri C, et al. **Int J Cancer** 1997 Jun 11;71(6):1113–5
Dermatologic disorders associated with viral hepatitis [letter; comment] Fisher DA. **Int J Dermatol** 1997 Mar;36(3):237–8 . Comment on: Int J Dermatol 1996 Feb;35(2):77–81.
Dermatologic manifestations of hepatitis C infection. Schwaber MJ, et al. **Int J Dermatol** 1997 Apr;36(4):251–4 (25 ref.)
Hepatitis B and C virus, Clonorchis sinensis for the risk of liver cancer: a case–control study in Pusan, Korea. Shin HR, et al. **Int J Epidemiol** 1996 Oct;25(5):933–40
Prevalence of antibodies to hepatitis C among recently treated leprosy patients in Senegal parallels those in normal populations [letter] Renaudineau Y, et al. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4):453–5
Severe cryoglobulinemia in a patient with asymptomatic hepatitis C virus infection. Iguchi S, et al. **Intern Med** 1996 Sep;35(9):712–6
Sequential occurrence of hepatocellular carcinoma following Waldenström's macroglobulinemia: the pathogenetic role of chronic liver disease. Izumi T, et al. **Intern Med** 1996 May;35(5):416–8
Clinicopathological analysis and therapy in hepatitis C virus–associated nephropathy. Komatsuda A, et al. **Intern Med** 1996 Jul;35(7):529–33
Epidemiology, clinical spectrum and prognostic value of mixed cryoglobulinaemia in hepatitis C virus patients: a prospective study. Adinolfi LE, et al. **Ital J Gastroenterol** 1996 Jan;28(1):1–9
Hepatitis C virus infection: a possible promoting agent in porphyria cutanea tarda. Antonov K, et al. **Ital J Gastroenterol** 1996 Dec;28(9):482–6
Alcoholic liver cirrhosis after the advent of hepatitis C virus: some reflections on its epidemiology and on the concept of attributable risk. Collaborative GESIA and AISF Groups. Gruppo Epidemiologico della Società Italiana di Alcologia and Associazione Italiana per lo Studio del Fegato. Aricò S, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):75–80
Influence of HIV disease on serum anti–HCV antibody titers: a study of intravenous drug users [letter] Sorbi D, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):295–6
HCV and HIV–related non–Hodgkin's lymphoma [letter] Tirelli U, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Jan 1;14(1):80–1
Generalized lichen planus associated with hepatitis C virus immunoreactivity. Bellman B, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):770–2
Unilateral nevoid telangiectasia: occurrence in two patients with hepatitis C. Hynes LR, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):819–22
Hepatitis C virus–associated membranoproliferative glomerulonephritis in renal allografts. Cruzado JM, et al. **J Am Soc Nephrol** 1996 Nov;7(11):2469–75
Newer aspects of pathogenesis of heart failure: hepatitis C virus infection in myocarditis and cardiomyopathy. Matsumori A, et al. **J Card Fail** 1996 Dec;2(4 Suppl):S187–94 (37 ref.)
Chronic hepatitis C virus infection: clinical experience with 126 patients. Ozyilkan E. **J Chemother** 1995 Nov;7 Suppl 4:206–7
HCV hepatitis associated with anticardiolipin antibody and a cerebrovascular accident. Response to interferon therapy. Malnick SD, et al. **J Clin Gastroenterol** 1997 Jan;24(1):40–2
Chronic lymphocytic leukemia complicating chronic hepatitis C infection. Marinella MA, et al. **J Clin Gastroenterol** 1996 Dec;23(4):302
Hepatitis C virus infection and extrahepatic malignancies. Sikuler E, et al. **J Clin Gastroenterol** 1997 Mar;24(2):87–9
HCV infection in a patient with hyper IgM syndrome. Quinti I, et al. **J Clin Immunol** 1996 Nov;16(6):321–5
Chronic hepatitis C in long–term survivors of haematological malignancy treated at a single centre [letter; comment] Butler AC. **J Clin Pathol** 1996 Oct;49(10):864. Comment on: J Clin Pathol 1996 Mar;49(3):230–32.
In situ detection of lipid peroxidation in chronic hepatitis C: correlation with pathological features. Paradis V, et al. **J Clin Pathol** 1997 May;50(5):401–6
Anti–oxidative therapy with oral dapsone improved HCV antibody positive annular elastolytic giant cell granuloma. Igawa K, et al. **J Dermatol** 1997 May;24(5):328–31
Urticarial vasculitis with papular lesions in a patient with type C hepatitis and cryoglobulinemia. Kuniyuki S, et al. **J Dermatol** 1996 Apr;23(4):279–83
Lichen planus and Sjögren–type sicca syndrome in a patient with chronic hepatitis C. Tanei R, et al. **J Dermatol** 1997 Jan;24(1):20–7
Hypergammaglobulinemic purpura associated with Sjögren's syndrome and chronic C type hepatitis. Yamamoto T, et al. **J Dermatol** 1997 Jan;24(1):7–11
Multivariate analysis of risk factors for hepatocellular carcinoma in patients with hepatitis C virus–related liver cirrhosis. Chiba T, et al. **J Gastroenterol** 1996 Aug; 31(4):552–8
Effectiveness of glycyrrhizin for oral lichen planus in patients with chronic HCV infection. Da Nagao Y, et al. **J Gastroenterol** 1996 Oct;31(5):691–5
Spontaneous hepatitis B surface antigen clearance in a long–term follow–up study of patients with chronic type B hepatitis. Lack of correlation with hepatitis C and D virus superinfection. Da Silva LC, et al. **J Gastroenterol** 1996 Oct;31(5):696–701
Fulminant hepatitis caused by hepatitis C virus during treatment for multiple sclerosis. Funaoka M, et al. **J Gastroenterol** 1996 Feb;31(1):119–22
Immunological evaluation in oral lichen planus with chronic hepatitis C. Nagao Y, et al. **J Gastroenterol** 1997 Jun; 32(3):324–9
Case report: primary splenic non–Hodgkin's B cell lymphoma in a patient with chronic hepatitis C. Fukutomi T, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):724–7 (29 ref.)
Case report: primary hepatic lymphoma associated with chronic liver disease. Higuchi T, et al. **J Gastroenterol Hepatol** 1997 Mar;12(3):237–42 (90 ref.)
Case report: development of hepatocellular carcinoma in a patient with chronic hepatitis C infection after a complete and sustained response to interferon–alpha. Hirashima N, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):955–8
Evaluation of hepatitis B and C viral markers: clinical significance in Asian and Caucasian patients with hepatocellular carcinoma in the United States of America. Hwang SJ, et al. **J Gastroenterol Hepatol** 1996 Oct; 11(10):949–54
Liver transplantation for hepatitis C–associated cirrhosis in a single Australian centre: referral patterns and transplant outcomes. Levy MT, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):453–9
Plasma interleukin–8 levels in patients with post–hepatitic cirrhosis: relationship to severity of liver disease, portal hypertension and hyperdynamic circulation. Li CP, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):635–40
Relationship between sustained elevation of serum alanine aminotransferase and progression from cirrhosis to hepatocellular carcinoma: comparison in patients with hepatitis B virus– and hepatitis C virus–associated cirrhosis [see comments] Sato A, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):944–8. Comment in: J Gastroenterol Hepatol 1996 Oct;11(10):942–3.
Different clinicopathological features of hepatitis B– and C–related hepatocellular carcinoma [editorial; comment] Shiratori Y. **J Gastroenterol Hepatol** 1996 Oct;11(10):942–3 . Comment on: J Gastroenterol Hepatol 1996 Oct;11(10):944–8.
Immunohistochemical evidence of insulin–like growth factor II in human small hepatocellular carcinoma with hepatitis C virus infection: relationship to fatty change in carcinoma cells. Sohda T, et al. **J Gastroenterol Hepatol** 1997 Mar; 12(3):224–8
Chronic liver disease in the Alexandria governorate, Egypt: contribution of schistosomiasis and hepatitis virus infections. Angelico M, et al. **J Hepatol** 1997 Feb; 26(2):236–43
Hepatitis C virus infection as a major risk factor for hepatocellular carcinoma. Caselmann WH, et al. **J Hepatol** 1996;24(2 Suppl):61–6 (65 ref.)
Ultrasound–detected abdominal lymphadenopathy in chronic hepatitis C: high frequency and relationship with viremia. Cassani F, et al. **J Hepatol** 1997 Mar;26(3):479–83
A history of tuberculosis infection [letter] Chiaramonte M, et al. **J Hepatol** 1996 Dec;25(6):1003
Co–transmission of hepatitis C and G viruses [letter] Cretel E, et al. **J Hepatol** 1997 Aug;27(2):426
High prevalence and coinfection rate of hepatitis G and C infections in intravenous drug addicts. Diamantis I, et al. **J Hepatol** 1997 Apr;26(4):794–7
Clinical implications of GBV–C/HGV infection in patients with "HCV–related" chronic hepatitis. Francesconi R, et al. **J Hepatol** 1997 Jun;26(6):1165–72
Hepatitis C virus genotypes and subtypes in patients with hepatitis C, with and without cryoglobulinemia. Frangeul L, et al. **J Hepatol** 1996 Oct;25(4):427–32
Clinical presentation of GB–C virus infection in drug abusers with chronic hepatitis C. Goeser T, et al. **J Hepatol** 1997 Mar;26(3):498–502
Transmission of hepatitis G virus in HCV–infected couples: myth or reality? [letter] Halfon P, et al. **J Hepatol** 1997 Aug;27(2):427
Autoimmune hepatitis type 2 and hepatitis C virus infection: study of HLA antigens. Jurado A, et al. **J Hepatol** 1997 May;26(5):983–91
A case of pseudolymphoma of the liver with chronic hepatitis C. Kim SR, et al. **J Hepatol** 1997 Jan;26(1):209–14 (30 ref.)
Alpha interferon treatment may prevent hepatocellular carcinoma in HCV–related liver cirrhosis. Mazzella G, et al. **J Hepatol** 1996 Feb;24(2):141–7
The natural history of hepatitis C: clinical experiences. Müller R. **J Hepatol** 1996;24(2 Suppl):52–4
Thrombocytopenia associated with hepatitis C viral infection [see comments] Nagamine T, et al. **J Hepatol** 1996 Feb; 24(2):135–40. Comment in: J Hepatol 1996 Dec;25(6):999.
Hepatitis C virus infection in the development of hepatocellular carcinoma in cirrhosis. Naoumov NV, et al. **J Hepatol** 1997 Aug;27(2):331–6
Hepatitis B and C in HIV–infected patients. Prevalence and prognostic value. Ockenga J, et al. **J Hepatol** 1997 Jul; 27(1):18–24
Hepatitis G virus infection in chronic hepatitis C: frequency, features and response to interferon therapy. Sáiz JC, et al. **J Hepatol** 1997 Apr;26(4):787–93
Increased serum soluble Fas (sFas) concentrations in HCV–positive patients with liver cirrhosis [letter] Seishima M, et al. **J Hepatol** 1997 Aug;27(2):424–5
Acute exacerbations in chronic hepatitis C: a clinicopathological and prognostic study. Sheen IS, et al. **J Hepatol** 1996 May;24(5):525–31
Effect of immunosuppression on composition of quasispecies population of hepatitis C virus in patients with chronic hepatitis C coinfected with human immunodeficiency virus. Toyoda H, et al. **J Hepatol** 1997 May;26(5):975–82
Nonrheumatoid IgM in human hepatitis C virus–associated type II cryoglobulinemia recognize mimotopes of the CD4–like LAG–3 protein. Mecchia M, et al. **J Immunol** 1996 Oct 15;157(8):3727–36
Hepatitis C virus infection detected by viral RNA analysis in porphyria cutanea tarda. Carpintero P, et al. **J Infect** 1997 Jan;34(1):61–4
Staphylococcus aureus bacteraemia, Absidia corymbifera infection and probable pulmonary aspergillosis in a recipient of orthotopic liver transplantation for end stage liver disease secondary to hepatitis C [letter] Viscoli C, et al. **J Infect** 1997 May;34(3):281–3
Increased vertical transmission of human immunodeficiency virus from hepatitis C virus–coinfected mothers. Women and Infants Transmission Study. Hershow RC, et al. **J Infect Dis** 1997 Aug;176(2):414–20
Effect of interferon–alpha and ribavirin therapy on serum GB virus C/hepatitis G virus (GBV–C/HGV) RNA levels in patients chronically infected with hepatitis C virus and GBV–C/HGV. Lau JY, et al. **J Infect Dis** 1997 Aug; 176(2):421–6
The association between hepatitis C virus genotype and human immunodeficiency virus disease progression in a cohort of hemophilic men [see comments] Sabin CA, et al. **J Infect Dis** 1997 Jan;175(1):164–8. Comment in: J Infect

Dis 1997 Aug;176(2):542–3.
Cryoglobulinemia in hepatitis C virus chronic active hepatitis: effects of interferon–alpha therapy. Casaril M, et al. **J Interferon Cytokine Res** 1996 Aug;16(8):585–8
Haemostatic abnormalities in patients with liver disease associated with viral hepatitis. Pramoolsinsap C, et al. **J Med Assoc Thai** 1996 Nov;79(11):681–8
Hepatitis C (HCV) genotype and viral titer distribution among Argentinean hemophilic patients in the presence or absence of human immunodeficiency virus (HIV) co–infection. Picchio GR, et al. **J Med Virol** 1997 Jun; 52(2):219–25
Identification of GBV–C hepatitis G RNA in chronic hepatitis C patients. Schleicher S, et al. **J Med Virol** 1996 Sep;50(1):71–4
Infection with GB virus C in patients with chronic liver disease. Sugai Y, et al. **J Med Virol** 1997 Mar;51(3):175–81
Hepatitis C virus is frequently coinfected with serum marker–negative hepatitis B virus: probable replication promotion of the former by the latter as demonstrated by in vitro cotransfection. Uchida T, et al. **J Med Virol** 1997 Aug;52(4):399–405
Hepatitis C virus infection in Italian patients with oral lichen planus: a prospective case–control study. Carrozzo M, et al. **J Oral Pathol Med** 1996 Nov;25(10):527–33
Antibodies to epithelial components in oral lichen planus (OLP) associated with hepatitis C virus (HCV) infection. Lodi G, et al. **J Oral Pathol Med** 1997 Jan;26(1):36–9
Hepatitis C virus infection and related liver disease in children of mothers with antibodies to the virus [see comments] Bortolotti F, et al. **J Pediatr** 1997 Jun; 130(6):990–3. Comment in: J Pediatr 1997 Jun;130(6):859–61.
Hepatitis C infection presenting with rheumatic manifestations [letter; comment] Barkhuizen A, et al. **J Rheumatol** 1997 Jun;24(6):1238–9. Comment on: J Rheumatol 1996 Jun;23(6):979–83.
Hepatitis C related cryoglobulinemia associated with retroperitoneal fibrosis. Hofbauer LC, et al. **J Rheumatol** 1996 Mar;23(3):554–7
Hepatitis C virus and rheumatic disease [editorial] Wener MH, et al. **J Rheumatol** 1996 Jun;23(6):953–9 (92 ref.)
Chronic hepatitis C virus infection in humans: induction of hepatic nitric oxide synthase and proposed mechanisms for carcinogenesis. Kane JM 3rd, et al. **J Surg Res** 1997 May; 69(2):321–4
Uncommon side–effects of interferon. Bailly F, et al. **J Viral Hepat** 1997;4 Suppl 1:89–94
A new hepatitis C virus–like flavivirus in patients with cryptogenic liver disease associated with elevated GGT and alkaline phosphatase serum levels. Colombatto P, et al. **J Viral Hepat** 1997;4 Suppl 1:55–60
The international autoimmune hepatitis score in chronic hepatitis C. Dickson RC, et al. **J Viral Hepat** 1997 Mar; 4(2):121–8
The spectrum of extrahepatic manifestations in hepatitis C virus infection. Hadziyannis SJ. **J Viral Hepat** 1997 Jan; 4(1):9–28 (240 ref.)
Myasthenia gravis and hepatitis C virus infection. Halfon P, et al. **J Viral Hepat** 1996 Nov;3(6):329–32
Clinical and serological courses of a newborn with post–transfusion hepatitis C. Maniwa H, et al. **J Viral Hepat** 1995;2(6):303–5
Hepatitis C virus infection in patients with clinically diagnosed alcoholic liver diseases. Sata M, et al. **J Viral Hepat** 1996 May;3(3):143–8
Importance of age in chronic hepatitis C virus infection. Wong V, et al. **J Viral Hepat** 1997 Jul;4(4):255–64
Lack of evidence for hepatitis G virus replication in the livers of patients coinfected with hepatitis C and G viruses. Laskus T, et al. **J Virol** 1997 Oct;71(10):7804–6
Molecular and immune mechanisms in the pathogenesis of cardiomyopathy—role of viruses, cytokines, and nitric oxide. Matsumori A. **Jpn Circ J** 1997 Apr;61(4):275–91 (104 ref.)
Comparison of clinical features and survival in patients with hepatitis B and C virus–related hepatocellular carcinoma. Tanizaki H, et al. **Jpn J Clin Oncol** 1997 Apr;27(2):67–70
Clinical characteristics of hepatitis C virus–associated retinopathy. Abe T, et al. **Jpn J Ophthalmol** 1995; 39(4):411–9
Natural history of liver fibrosis progression in patients with chronic hepatitis C. The OBSVIRC, METAVIR, CLINIVIR, and DOSVIRC groups. Poynard T, et al. **Lancet** 1997 Mar 22;349(9055):825–32
Non–Hodgkin's lymphoma and hepatitis C virus infection. Brind AM, et al. **Leuk Lymphoma** 1996 Mar;21(1–2):127–30
Hepatitis C virus and non–Hodgkin's lymphomas. Pozzato G, et al. **Leuk Lymphoma** 1996 Jun;22(1–2):53–60 (88 ref.)
B cell malignancy and hepatitis C virus infection. Izumi T, et al. **Leukemia** 1997 Apr;11 Suppl 3:516–8
"Hemangiodermatitis" associated with chronic hepatitis C virus infection [letter; comment] Mazzone A, et al. **Mayo Clin Proc** 1996 Nov;71(11):1124–5. Comment on: Mayo Clin Proc 1995 Jun;70(6):559–64.
Nonsystemic vasculitic mononeuropathy multiplex, cryoglobulinemia, and hepatitis C. David WS, et al. **Muscle Nerve** 1996 Dec;19(12):1596–602
Immunological disorders in C virus chronic hepatitis. Cosserat J, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:31–5 (26 ref.)
Type II mixed cryoglobulinaemia, hepatitis C virus infection, and glomerulonephritis. Fornasieri A, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:25–30 (42 ref.)
Glomerular disease during HCV infection in renal transplantation. Hammoud H, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:54–5
Lupus nephritis and HCV infection [letter; comment] Lopes LV, et al. **Nephrol Dial Transplant** 1997 May;12(5):1081. Comment on: Nephrol Dial Transplant 1996 Jul;11(7):1342–5.
Type I membranoproliferative glomerulonephritis and HCV infection. Rostoker G, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 4:22–4 (13 ref.)
HCV–associated cryoglobulinaemia presenting with vasculitis, hepatitis, and glomerulonephritis – a therapeutic dilemma. Treichel U, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1168–71
Recurrence of membranoproliferative glomerulonephritis after renal transplantation in a patient with chronic hepatitis C. Brunkhorst R, et al. **Nephron** 1996;72(3):465–7
Superinfection with hepatitis C virus in hemodialysis patients with hepatitis B surface antigenemia: its prevalence and clinical significance in Taiwan. Chen KS, et al. **Nephron** 1996;73(2):158–64
Mesangioproliferative glomerulonephritis in a patient with hepatitis C virus infection and IgA deficiency [letter] Hironaka K, et al. **Nephron** 1997;76(2):222–4
The frequencies of hepatitis B virus markers and hepatitis C virus antibody in patients with glomerulonephritis. Paydas S, et al. **Nephron** 1996;74(3):617–9
Hepatitis C virus seropositivity in glomerulonephritis patients [letter] Roccatello D, et al. **Nephron** 1997;76(3):355–6
Acute renal failure in kidney transplant patients treated with interferon alpha 2b for chronic hepatitis C. Rostaing L, et al. **Nephron** 1996;74(3):512–6
An atypical verrucous carcinoma of the tongue arising in a patient with oral lichen planus associated with hepatitis C virus infection. Carrozzo M, et al. **Oral Oncol** 1997 May; 33(3):220–5
Development of squamous cell carcinoma in hepatitis C virus–associated lichen planus. Porter SR, et al. **Oral Oncol** 1997 Jan;33(1):58–9
The seroprevalence of hepatitis B, hepatitis C and human immunodeficiency virus infections in paediatric oncology patients in Turkey. Berberoğlu S. **Postgrad Med J** 1996 Oct;72(852):609–11
HCV and liver cancer: the epidemiological evidence. Bosch FX. **Princess Takamatsu Symp** 1995;25:15–25 (39 ref.)
Hepatitis B and C viruses in hepatitis B surface antigen negative hepatocellular carcinoma patients. Bréchot C, et al. **Princess Takamatsu Symp** 1995;25:199–209 (57 ref.)
Hepatitis C virus in chronic liver disease and hepatocellular carcinoma in Taiwan. Chen DS. **Princess Takamatsu Symp** 1995;25:27–32 (24 ref.)
Hepatitis C virus infection in black patients with hepatocellular carcinoma in southern Africa. Kew MC. **Princess Takamatsu Symp** 1995;25:33–40 (26 ref.)
Clinical pathoepidemiology of hepatocellular carcinoma in Japan. Kobayashi K, et al. **Princess Takamatsu Symp** 1995; 25:67–74
Association of hepatitis C virus and hepatocellular carcinoma in the United States. Reid AE, et al. **Princess Takamatsu Symp** 1995;25:41–9 (29 ref.)
Hepatocarcinogenesis: hepatitis viruses and altered tumor suppressor gene function. Tabor E. **Princess Takamatsu Symp** 1995;25:151–61 (59 ref.)
Autoimmune disorders associated with hepatitis C. Marcellin P, et al. **Prog Liver Dis** 1995;13:247–67 (178 ref.)
Chronic hepatitis C and B–cell non–Hodgkin's lymphoma. Ferri C, et al. **QJM** 1996 Feb;89(2):117–22
Scarlatiniform exanthem and hepatitis C [letter] Garavelli PL, et al. **Recenti Prog Med** 1996 Dec;87(12):599
Hepatitis C virus and hepatocellular carcinoma. Colombo M, et al. **Res Virol** 1997 Mar–Apr;148(2):127–34
HIV increases hepatitis C viraemia irrespective of the hepatitis C virus genotype. Cribier B, et al. **Res Virol** 1997 Jul–Aug;148(4):267–71
HBV and HCV chronic hepatitis and cirrhosis. Piccinino F, et al. **Res Virol** 1997 Mar–Apr;148(2):135–8 (29 ref.)
Clearance of hepatitis C viral RNA in cirrhotic patients with antiviral therapy. Ono SK, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):180–3
Mixed cryoglobulinemia secondary to hepatitis C virus infection. Agnello V, et al. **Rheum Dis Clin North Am** 1996 Feb;22(1):1–21 (121 ref.)
HCV and dermatomyositis: report of 5 cases of dermatomyositis in patients with HCV infection. Fiore G, et al. **Riv Eur Sci Med Farmacol** 1996 Sep–Dec; 18(5–6):197–201
Type 2 autoimmune hepatitis and hepatitis C viraemia. Leri O, et al. **Riv Eur Sci Med Farmacol** 1996 Jan–Feb;18(1):3–6
Immunological disorders of increased severity in children with AIDS associated with hepatitis B and C infections. Antipa C, et al. **Rom J Virol** 1995 Jan–Jun;46(1–2):3–8
Blood amounts and suppressive in vitro activity of CD8+11b(+)–lymphocytes from HIV–infected children, related to hepatitis B or C virus association. Voiculescu C, et al. **Rom J Virol** 1995 Jul–Dec;46(3–4):171–8
Minor role of hepatitis B and C virus infection in the etiology of hepatocellular carcinoma in a low–endemic area. Kaczynski J, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):809–13
Hepatitis and cancer: genetic aspects. Olsson R. **Scand J Gastroenterol Suppl** 1996;220:115–20 (53 ref.)
Hepatitis E virus infection in individuals at high risk of transmission of non–A, non–B hepatitis and sexually transmitted diseases. Psichogiou M, et al. **Scand J Infect Dis** 1996;28(5):443–5
Hepatitis virus and kidney. Praditpornsilpa K, et al. **Singapore Med J** 1996 Dec;37(6):639–44 (53 ref.)
The etiology and pathophysiology of mixed cryoglobulinemia secondary to hepatitis C virus infection. Agnello V. **Springer Semin Immunopathol** 1997; 19(1):111–29 (69 ref.)
Hepatitis C virus genotypes in patients with hepatocellular carcinoma and cholangiocarcinoma in Thailand. Songsivilai S, et al. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct;90(5):505–7
Antibody to hepatitis C virus in blood donors found positive for other agents. I. Treponemal infection. Aloysius S, et al. **Transfus Med** 1991 Sep;1(3):191–3
Is hepatitis C virus recurrence a risk factor for chronic liver allograft rejection? Charco R, et al. **Transpl Int** 1996;9 Suppl 1:S195–7
Papillitis and vasculitis of the arteria spinalis anterior as complications of hepatitis C reinfection after liver transplantation. Propst T, et al. **Transpl Int** 1997;10(3):234–7
Results of kidney transplantation in HBsAG and anti–HCV seropositive renal allograft recipients. Durlik M, et al. **Transplant Proc** 1996 Dec;28(6):3459–60
Limited benefits of INF–alpha therapy in renal graft candidates with chronic viral hepatitis B or C. Rodrigues A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):777–80
Liver histology in renal transplant patients after more than 10 years of hepatitis C virus infection. Rostaing L, et al. **Transplant Proc** 1996 Oct;28(5):2836–7
Membranous glomerulonephritis associated with hepatitis C virus infection in renal transplant patients. Morales JM, et al. **Transplantation** 1997 Jun 15;63(11):1634–9
Chronic viral hepatitis enhances the risk of infection but not acute rejection in renal transplant recipients. Rao KV, et al. **Transplantation** 1996 Dec 27;62(12):1765–9
Association of hepatitis C virus infection with mortality and graft survival in kidney–pancreas transplant recipients. Stehman–Breen CO, et al. **Transplantation** 1997 Jul 27; 64(2):281–6
Hepatitis G virus coinfection in hepatitis C virus–infected liver transplant recipients. Vargas HE, et al. **Transplantation** 1997 Sep 15;64(5):786–8
Hepatitis C virus–related fibrosing cholestatic hepatitis after renal transplantation. Zylberberg H, et al. **Transplantation** 1997 Jan 15;63(1):158–60
Prevalence of hepatitis B surface antigen and HCV antibodies in hepatocellular carcinoma cases in Karachi, Pakistan. Abdul Mujeeb S, et al. **Trop Doct** 1997 Jan;27(1):45–6
Prevalence of hepatitis C virus infection among beta–thalassaemia major patients. Abdul Mujeeb S, et al. **Trop Doct** 1997 Apr;27(2):105
[Porphyria cutanea tarda and hepatitis C virus infection] Held E, et al. **Ugeskr Laeger** 1997 Feb 24;159(9):1284–6 (Eng. Abstr.) **(Dan)**
[Autoimmune polyneuropathy associated with hepatitis C] Andrès E, et al. **Ann Med Interne (Paris)** 1997; 148(3):289–90 **(Fre)**
[The eye and hepatitis C] Tahri H, et al. **J Fr Ophtalmol** 1997;20(6):453–5 (23 ref.) (Eng. Abstr.) **(Fre)**
[Red fingers syndrome in the course of HIV infection. A new case] Lair G, et al. **J Mal Vasc** 1997;22(1):48–50 (Eng. Abstr.) **(Fre)**
[Porphyria cutanea tarda: relations to the hepatitis C virus] Cribier B. **Presse Med** 1997 Apr 12;26(12):572–6 (27 ref.) **(Fre)**
[Extrahepatic diseases certainly related to hepatitis C virus] Durand JM. **Presse Med** 1997 Jun 21;26(21):1014–22 (126 ref.) **(Fre)**
[Extrahepatic diseases in patients with hepatitis C virus infection. Probable or possible associations] Durand JM. **Presse Med** 1997 Jun 21;26(21):1023–8 (118 ref.) **(Fre)**
[Porphyria cutanea tarda and hepatitis B and C virus infection] Roux M, et al. **Presse Med** 1996 Nov 2; 25(33):1589–91 (9 ref.) (Eng. Abstr.) **(Fre)**
[Cold agglutinins and cryoglobulinemia in a patient with hepatitis C] Ruivard M, et al. **Presse Med** 1996 Oct 26; 25(32):1548–9 (Eng. Abstr.) **(Fre)**
[Gougerot Sjögren syndrome and hepatitis C virus: what relation? (editorial)] Wattiaux MJ. **Presse Med** 1997 Apr 26;26(14):652–5 (Eng. Abstr.) **(Fre)**
[Clinical aspects and course of viral hepatitis C] Blanc F, et al. **Rev Med Interne** 1997;18 Suppl 2:63s–66s (37 ref.) **(Fre)**
[Periarteritis nodosa disclosed by epilepsy in a drug addict with hepatitis B and C virus carrier state] Débat Zoguéreh D, et al. **Rev Med Interne** 1997;18(4):311–5 (Eng. Abstr.) **(Fre)**
[Extrahepatic manifestations of the hepatitis C virus] Guillevin L, et al. **Rev Med Interne** 1997;18 Suppl 2:70s–71s (12 ref.) **(Fre)**
[Distal gangrene and cryoglobulinemia related to hepatitis C virus infection with presence of anticardiolipin antibodies] Jacq F, et al. **Rev Med Interne** 1997;18(4):324–7 (Eng. Abstr.) **(Fre)**
[Hepatitis C–associated vasculitic mononeuritis multiplex] Heckmann JG, et al. **Dtsch Med Wochenschr** 1997 Feb 28; 122(9):259–62 (22 ref.) (Eng. Abstr.) **(Ger)**

[Cryoglobulinemia in chronic liver diseases: cause or consequence?] Csepregi A, et al. **Orv Hetil** 1997 Mar 16; 138(11):651–6 (46 ref.) (Eng. Abstr.) **(Hun)**

[Interferon therapy in cryoglobulinemic membranoproliferative glomerulonephritis associated with hepatitis C virus infection (see comments)] Mátyus J, et al. **Orv Hetil** 1996 Nov 10;137(45):2527–30 (Eng. Abstr.) . Comment in: Orv Hetil 1997 Jan 5;138(1):43–4. **(Hun)**

[Non-Hodgkin's lymphoma of the spleen and hepatitis C. Report of a clinical case] Mancuso G, et al. **Minerva Med** 1997 Mar;88(3):97–9 (Eng. Abstr.) **(Ita)**

[Interferon treatment for hepatitis G virus infection in patients with chronic hepatitis C] Baba T, et al. **Nippon Rinsho** 1997 Mar;55(3):625–30 (Eng. Abstr.) **(Jpn)**

[HGV is rare but possible causative agent of non-A non-B fulminant hepatitis] Ishikawa K, et al. **Nippon Rinsho** 1997 Mar;55(3):621–4 (Eng. Abstr.) **(Jpn)**

[Coinfection of hepatitis C virus and hepatitis G virus in patients with chronic hepatitis] Oshita M, et al. **Nippon Rinsho** 1997 Mar;55(3):617–20 (4 ref.) (Eng. Abstr.) **(Jpn)**

[Hepatitis GB virus C infection in Japanese hemophiliacs with persistent hepatitis C virus infection] Toyoda H, et al. **Nippon Rinsho** 1997 Mar;55(3):554–8 (Eng. Abstr.) **(Jpn)**

[A heavy drinker case of HCV-Ab positive porphyria cutanea tarda, followed by primary hepatocellular carcinoma] Oguma T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Jul;93(7):501–5 **(Jpn)**

[C-type hepatitis in spontaneous intracerebral hemorrhage] Aiba T, et al. **No To Shinkei** 1996 Dec;48(12):1116–9 (Eng. Abstr.) **(Jpn)**

[Infection with hepatitis C virus in porphyria cutanea tarda] Lima J, et al. **Acta Med Port** 1996 Jul–Sep;9(7–9):283–6 (24 ref.) (Eng. Abstr.) **(Por)**

[The frequency of antibodies against delta virus in patients with HBs positive hepatitis] Ivaniushina VA, et al. **Vopr Virusol** 1996 Jul–Aug;41(4):166–9 (Eng. Abstr.) **(Rus)**

[Why hepatitis and AIDS? (editorial)] Jmelnitzky AC. **Acta Gastroenterol Latinoam** 1996;26(3):201–4 **(Spa)**

[Sjogren syndrome and hepatitis c virus infection (letter)] Coll J, et al. **An Med Interna** 1996 Aug;13(8):412 **(Spa)**

[Polyarteritis nodosa associated with hepatitis C virus] Hortelano Martínez E, et al. **An Med Interna** 1997 May; 14(5):241–3 (Eng. Abstr.) **(Spa)**

[Biotechnology applied to the diagnosis of HIV/hepatitis C co-infection] Maroto Vela MC. **An R Acad Nac Med (Madr)** 1996;113(3):643–55; discussion 655–8 **(Spa)**

[Cryoglobulinemia and hepatitis C virus] Bessone F. **Gastroenterol Hepatol** 1997 Apr;20(4):193–5 (Eng. Abstr.) **(Spa)**

[Lichen planus associated with liver disease caused by hepatitis C virus] Jáuregui L, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):507–10 (Eng. Abstr.) **(Spa)**

[Hepatitis virus and alcoholic liver disease] Parés A, et al. **Gastroenterol Hepatol** 1996 Aug–Sep;19(7):383–9 (49 ref.) **(Spa)**

[Associated autoimmune hepatitis and chronic hepatitis C virus infection: diagnostic and therapeutic criteria (letter)] Rodrigo Sáez L, et al. **Gastroenterol Hepatol** 1997 Jan; 20(1):43–4 **(Spa)**

[Hepatitis C virus infection in a patient with porphyria cutanea tarda and hepatocarcinoma (letter)] Sancho MT, et al. **Rev Clin Esp** 1996 Oct;196(10):725–6 **(Spa)**

DIAGNOSIS

The role of hepatitis C virus in alcoholic liver disease. Grellier LF, et al. **Alcohol Alcohol** 1997 Mar–Apr; 32(2):103–11 (58 ref.)

Prevalence of antibodies to hepatitis C virus and correlation with liver disease in renal transplant patients. Rostaing L, et al. **Am J Nephrol** 1997;17(1):46–52

Hepatitis C virus in dermatology [letter; comment] Fisher DA. **Arch Dermatol** 1996 Oct;132(10):1247. Comment on: Arch Dermatol 1995 Oct;131(10):1185–93.

Assessment of the zinc turbidity test and the use of risk factors in detecting asymptomatic hepatitis C virus carriers: population based study. Nakajima K, et al. **BMJ** 1997 Apr 19;314(7088):1169

The natural history of chronic hepatitis C in haemophiliacs [see comments] Makris M, et al. **Br J Haematol** 1996 Sep; 94(4):746–52. Comment in: Br J Haematol 1997 Mar;96(4):875–6.

Interpreting serologic tests for hepatitis C virus infection: balancing cost and clarity. Long GS, et al. **Cleve Clin J Med** 1996 Sep;63(5):264–8 (25 ref.)

Chronic hepatitis C: a clinical overview. Younossi ZM. **Cleve Clin J Med** 1997 May;64(5):259–68 (48 ref.)

Hepatitis C--diagnosis and monitoring. Urdea MS, et al. **Clin Chem** 1997 Aug;43(8 Pt 2):1507–11 (22 ref.)

Effective detection of active HCV infection: HCV RNA carrier state in a context free of hepatitis symptoms. Arapinis C, et al. **Clin Chim Acta** 1997 Feb 3;258(1):91–104

Is hepatitis C virus-RNA detection by nested polymerase chain reaction clinically relevant in hemodialysis patients? Dussol B, et al. **Clin Nephrol** 1996 Apr;45(4):257–60

Serological diagnosis of hepatitis C virus in patients with liver disease in Saudi Arabia. Evaluation of antibody determination by recombinant immunoblot assays in relation to RNA detection by polymerase chain reaction. Al-Ahdal MN, et al. **Diagn Microbiol Infect Dis** 1997 Mar; 27(3):69–73

Detection of hepatitis C by RT-PCR in formalin-fixed paraffin-embedded tissue from liver transplant patients. Svoboda-Newman SM, et al. **Diagn Mol Pathol** 1997 Apr; 6(2):123–9

Serum HCV-RNA and liver histologic findings in patients with long-term normal transaminases. Montalto G, et al. **Dig Dis Sci** 1997 Aug;42(8):1703–7

Epidemiology, serological markers, and hepatic disease of anti-HCV ELISA-2-positive blood donors. Salmerón FJ, et al. **Dig Dis Sci** 1996 Oct;41(10):1933–8

Cost-effectiveness of screening blood donors for hepatitis C and non-A, non-B, non-C hepatitis. The EATHIS Eco Research Group. European Acute Transfusion Hepatitis Interferon Study. Colin C, et al. **Eur J Clin Microbiol Infect Dis** 1997 Mar;16(3):220–7

Modified enzyme immunoassay to detect hepatitis C virus antibodies in oral fluid. McIntyre PG, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):882–4

Clinical relevance of hepatitis C virus genotypes. Simmonds P. **Gut** 1997 Mar;40(3):291–3

Diagnostic tests for hepatitis C. Gretch DR. **Hepatology** 1997 Sep;26(3 Suppl 1):43S–47S (36 ref.)

Diagnosis of hepatitis C. Lok AS, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):48S–56S (107 ref.)

Measuring hepatitis C viremia in clinical samples: can we trust the assays? Pawlotsky JM. **Hepatology** 1997 Jul; 26(1):1–4 (26 ref.)

Containing hepatitis C. Maddrey WC. **Hosp Pract (Off Ed)** 1997 Mar 15;32(3):107–9, 113–4 passim; discussion 128

Laboratory diagnosis of hepatitis C. Nolte FS. **Immunol Invest** 1997 Jan–Feb;26(1–2):199–207 (43 ref.)

Evaluation of the Amplicor HCV test: experiences after 1 year of routine use in a diagnostic laboratory. Seme K, et al. **Infection** 1996 Mar–Apr;24(2):140–3

Evaluation of western blot in routine diagnosis of hepatitis C virus. Tsopanomichalou M, et al. **Int J Biol Markers** 1997 Jan–Mar;12(1):35–41

Molecular diagnosis of hepatitis C viral infection. Aoki H, et al. **Intervirology** 1996;39(3):140–4 (37 ref.)

Incidence of hepatitis C in patients with chronic elevations of aminotransferases [see comments] Salazar AE, et al. **J Am Board Fam Pract** 1996 May–Jun;9(3):157–61. Comment in: J Am Board Fam Pract 1996 Sep–Oct;9(5):391.

Significance of anti-E2 in the diagnosis of HCV infection in patients on maintenance hemodialysis: anti-E2 is frequently detected among anti-HCV antibody-negative patients. Lee DS, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2409–13

Detection of hepatocellular cancer during screening of 1125 patients with chronic hepatitis virus infection. Izzo F, et al. **J Chemother** 1997 Apr;9(2):151–2

Single-step PCR in molecular diagnosis of hepatitis C virus infection. Farma E, et al. **J Clin Microbiol** 1996 Dec; 34(12):3171–4

Evaluation of performance of the RIBA processor system for automated analysis of the strip immunoblot assay for detection of antibodies to hepatitis C virus. Icardi G, et al. **J Clin Microbiol** 1997 Sep;35(9):2331–6

Clinical characterization of a competitive PCR assay for quantitative testing of hepatitis C virus. Miskovsky EP, et al. **J Clin Microbiol** 1996 Aug;34(8):1975–9

Hepatitis C infection as an occupational hazard for healthcare workers. Prakash C, et al. **J Commun Dis** 1995 Dec; 27(4):272–4

Clinical evaluation of a single reaction, diagnostic polymerase chain reaction assay for the detection of hepatitis C virus RNA. Gerken G, et al. **J Hepatol** 1996 Jan;24(1):33–7

Evaluation of hepatitis C virus envelope proteins expressed in E. coli and insect cells for use as tools for antibody screening. Hüssy P, et al. **J Hepatol** 1997 Jun;26(6):1179–86

Establishment of a novel radioligand assay using eukaryotically expressed cytochrome P4502D6 for the measurement of liver kidney microsomal type 1 antibody in patients with autoimmune hepatitis and hepatitis C virus infection. Ma Y, et al. **J Hepatol** 1997 Jun;26(6):1396–402

Serological pattern of hepatitis C virus recurrence after liver transplantation. Rehermann B, et al. **J Hepatol** 1996 Jan; 24(1):15–20

Rational use of diagnostic tools in hepatitis C. Roggendorf M, et al. **J Hepatol** 1996;24(2 Suppl):26–34 (68 ref.)

An ELISA for the detection of antibody to the core antigen of hepatitis C virus: use in diagnosis and analysis of indeterminate samples. Trowbridge R, et al. **J Hepatol** 1996 May;24(5):532–8

Full or partial seroreversion in patients infected by hepatitis C virus. Lefrère JJ, et al. **J Infect Dis** 1997 Feb; 175(2):316–22

Evaluation of two simplified methods for genotyping hepatitis C virus. Khan RU, et al. **J Med Virol** 1997 May; 52(1):35–41

Improved methods for quantification of human immunodeficiency virus type 1 RNA and hepatitis C virus RNA in blood using spin column technology and chemiluminescent assays of PCR products. Lin HJ, et al. **J Med Virol** 1997 Jan;51(1):56–63

Comparison of HCV RNA assays for the detection and quantification of hepatitis C virus RNA levels in serum of patients with chronic hepatitis C treated with interferon. Trabaud MA, et al. **J Med Virol** 1997 May;52(1):105–12

Hepatitis C infection presenting with rheumatic manifestations: a mimic of rheumatoid arthritis [see comments] Lovy MR, et al. **J Rheumatol** 1996 Jun; 23(6):979–83. Comment in: J Rheumatol 1997 Jun;24(6):1238–9.

Analytical and laboratory evaluation of a new fully-automated third generation enzyme immunoassay for the detection of antibodies to the hepatitis C virus. Bonanni P, et al. **J Virol Methods** 1996 Dec;62(2):113–22

New quantitative assay of hepatitis B and C viruses by competitive PCR using alternative internal sequences. Payan C, et al. **J Virol Methods** 1997 May;65(2):299–305

PCR for hepatitis C: user friendly? [editorial] Hamid S. **JPMA J Pak Med Assoc** 1995 Dec;45(12):311–2

Undiagnosed hepatitis C virus infection in hemodialysis patients: value of HCV RNA and liver enzyme levels. Caramelo C, et al. **Kidney Int** 1996 Dec;50(6):2027–31

"Hemangiodermatitis" associated with chronic hepatitis C virus infection [letter; comment] Mazzone A, et al. **Mayo Clin Proc** 1996 Nov;71(11):1124–5. Comment on: Mayo Clin Proc 1995 Jun;70(6):559–64.

Hepatitis C virus infection-associated markers in sera from blood donors in Surabaya, Indonesia. Darmadi S, et al. **Microbiol Immunol** 1996;40(5):401–5

Comparative analysis of three nucleic acid-based detection systems for hepatitis C virus RNA in plasma from liver transplant recipients. Chen Y, et al. **Mol Cell Probes** 1996 Oct;10(5):331–6

Serological and molecular biology screening techniques for HVC infection. De Lamballerie X. **Nephrol Dial Transplant** 1996;11 Suppl 4:9–11 (17 ref.)

Detection of genotype 4 hepatitis C virus (HCV) in Italy. Tagliaferro L, et al. **New Microbiol** 1997 Jan;20(1):87–8

IgM antibodies to hepatitis C virus [letter; comment] Navarro JF, et al. **Perit Dial Int** 1996 Nov–Dec;16(6):644–6. Comment on: Perit Dial Int 1995 Jul–Sep;15(6):241–5.

Evaluation and treatment of chronic hepatitis C infection. Neiblum DR, et al. **Prim Care** 1996 Sep;23(3):535–49 (65 ref.)

Performance of three generations of anti-hepatitis C virus enzyme-linked immunosorbent assays in donors and patients. Vrielink H, et al. **Transfusion** 1997 Aug; 37(8):845–9

Development of polymerase chain reaction diagnostic assays for the detection and quantitation of human immunodeficiency virus and hepatitis C virus genomes. Colucci G. **Transplant Proc** 1996 Oct;28(5):2929–30

Anti-HCV antibody is sensitive but not sufficient to detect HCV active infection in renal transplanted patients: the role of PCR for HCV-RNA. David-Neto E, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):781–2

Qualitative and quantitative NASBA for detection of human immunodeficiency virus type 1 and hepatitis C virus infection. Sillekens PT. **Transplant Proc** 1996 Oct; 28(5):2941–4

Detection of antibody to hepatitis C virus E2 recombinant antigen among samples indeterminate for anti-HCV after wide serological testing and correlation with viremia. The Spanish Study Group for Blood Donors at Risk of Transmission of HCV. León P, et al. **Vox Sang** 1996; 70(4):213–6

An easy dipstick assay for anti-core antibodies to screen blood donors for hepatitis C virus viremia. Mulyanto, et al. **Vox Sang** 1996;70(4):229–31

Incidence of hepatitis C virus RNA in anti-HCV-negative plasma pools and blood products. Saldanha J, et al. **Vox Sang** 1996;70(4):232–4

Transmission of hepatitis C via both erythrocyte and platelet transfusions from a single donor in serological window-phase of hepatitis C. Widell A, et al. **Vox Sang** 1996;71(1):55–7

Rational use of polymerase chain reaction--based detection of viral genomes in patients with serologic markers of hepatitis B or C virus infection. Pfeffel F, et al. **Wien Klin Wochenschr** 1997 Jan 17;109(1):20–4

Recurrent hepatitis C virus infection after liver transplantation--long-term follow-up with respect to the HCV genotypes/subtypes. Arnold JC, et al. **Z Gastroenterol** 1997 Apr;35(4):255–61

[Establishment of anti-HCV NS5 alpha McAb hybridoma cell lines and its application on clinical immunohistochemical diagnosis] Gao J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):585–7 (Eng. Abstr.) **(Chi)**

[Hepatitis C: screening and treatment] **Allerg Immunol (Paris)** 1997 Feb;29(2):50–2 (0 ref.) **(Fre)**

[Biological diagnosis of hepatitic C virus infections] Buisson Y, et al. **Bull Acad Natl Med** 1996 Jun–Jul;180(6):1241–50; discussion 1250–1 (Eng. Abstr.) **(Fre)**

[The proposed position statement on the preliminary screening of hepatitis B and hepatitis C of tentative intra-couple medically assisted reproduction. The BLEFCO Federation] **Contracept Fertil Sex** 1997 Apr; 25(4):313–24 (Eng. Abstr.) **(Fre)**

[Limits of immunoserologic and molecular diagnosis of hepatitis C] Trepo C, et al. **Nucl Med Biol** 1994 Apr; 21(3):419–31 (Eng. Abstr.) **(Fre)**

[Development of a biological diagnosis for hepatitis C] Laperche S, et al. **Transfus Clin Biol** 1997;4(3):291–8 (31

ref.) (Eng. Abstr.) **(Fre)**
[Proposals for a strategy for evaluation and utilization of screening tests for hepatitis C] Lunel F, et al. **Transfus Clin Biol** 1996;3(5):279–88 (23 ref.) (Eng. Abstr.) **(Fre)**
[Hepatitis C—clinical aspects, diagnosis and therapy] Mörl M. **Fortschr Med** 1997 Jan 30;115(3):26–9 (Eng. Abstr.) **(Ger)**
[Chronic hepatitis. Differential diagnosis and therapy. 2: Differential hepatitis C diagnosis] Schlaak JF, et al. **Fortschr Med** 1997 Jul 20;115(20–21):38–9 **(Ger)**
[When does hepatitis C infection become chronic?] Spengler U. **Fortschr Med** 1997 Jan 30;115(3):33–4 **(Ger)**
[Hepatitis C, diagnosis and therapy] Moradpour D, et al. **Med Klin** 1996 Dec 15;91(12):769–70 **(Ger)**
[Extrahepatic manifestations of HBV and HCV infection] Hartmann H. **Schweiz Rundsch Med Prax** 1997 Jul 16; 86(29–30):1163–6 (14 ref.) (Eng. Abstr.) **(Ger)**
[Diagnosis of liver disease on laparoscopy: special reference to type B and C hepatitis] Sugaya H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):783–8 (58 ref.) **(Jpn)**
[Intercalation monitoring PCR(IM–PCR), its principle and application: quantitative monitoring of HCV RNA in the course of IFN therapy] Ishiguro T, et al. **Rinsho Byori** 1997 Mar;45(3):213–7 (Eng. Abstr.) **(Jpn)**
[Clinical evaluation of hepatitis C virus RNA quantification by competitive reverse-transcription PCR] Kobayashi H, et al. **Rinsho Byori** 1996 Jun;44(6):569–73 (Eng. Abstr.) **(Jpn)**
[Method of polymerase chain reaction in laboratory diagnosis of hepatitis B and C] Mikhaĭlov MI, et al. **Klin Lab Diagn** 1997 Jul;(7):9–11 **(Rus)**
[Viral hepatitis B and C in patients with acute leukemias] Konstantinova TS, et al. **Ter Arkh** 1996;68(7):17–21 (Eng. Abstr.) **(Rus)**
[Hepatitis C virus infection in patients on chronic hemodialysis] Plješa S, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:120–3 (Eng. Abstr.) **(Scc)**
[Biotechnology applied to the diagnosis of HIV/hepatitis C co-infection] Maroto Vela MC. **An R Acad Nac Med (Madr)** 1996;113(3):643–55; discussion 655–8 **(Spa)**
[Detection of low-avidity IgG antibodies in the diagnosis of primary acute infection by hepatitis C virus] León P, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):14–8 (Eng. Abstr.) **(Spa)**
[Diagnostic tests for the hepatitis C virus] Sjorgen MH. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S46–8 **(Spa)**

DRUG THERAPY

Treatment of chronic hepatitis B and hepatitis C with interferon alfa-2b [see comments] Molloy PJ, et al. **Am Fam Physician** 1996 Oct;54(5):1598–605. Comment in: Am Fam Physician 1997 May 15;55(7):2434.
Early loss of serum hepatitis C virus RNA can predict a sustained response to interferon therapy in patients with chronic hepatitis C. Karino Y, et al. **Am J Gastroenterol** 1997 Jan;92(1):61–5
Serial quantitation of serum core protein and viral RNA of hepatitis C virus after interferon therapy: increase in viral loads in biochemical responders. Yoshioka K, et al. **Am J Gastroenterol** 1997 Aug;92(8):1305–9
Multiple changes in thyroid function in patients with chronic active HCV hepatitis treated with recombinant interferon-alpha. Roti E, et al. **Am J Med** 1996 Nov; 101(5):482–7
Interferon-alpha treatment and formation of factor VIII antibodies [letter; comment] Makris M, et al. **Ann Intern Med** 1997 May 15;126(10):829; discussion 829–30. Comment on: Ann Intern Med 1996 Aug 15;125(4):297–9.
Influence of hepatitis G virus infection on the severity of liver disease and response to interferon-alpha in patients with chronic hepatitis C. Martinot M, et al. **Ann Intern Med** 1997 Jun 1;126(11):874–81
Interferon-alpha treatment and formation of factor VIII antibodies [letter; comment] Stricker RB. **Ann Intern Med** 1997 May 15;126(10):829; discussion 829–30. Comment on: Ann Intern Med 1996 Aug 15;125(4):297–9.
Hepatitis C virus genotype, hepatitis C virus RNA titers, and response to interferon [letter; comment] Taliani G, et al. **Ann Intern Med** 1997 Jul 1;127(1):89. Comment on: Ann Intern Med 1996 Oct 15;125(8):634–9.
Long-term efficacy of alpha-interferon in beta-thalassemics with chronic hepatitis C. Di Marco V, et al. **Blood** 1997 Sep 15;90(6):2207–12
The long term efficacy of glycyrrhizin in chronic hepatitis C patients. Arase Y, et al. **Cancer** 1997 Apr 15; 79(8):1494–500
Plasma vitronectin concentrations in patients with chronic hepatitis C treated with interferon alpha. Yamada S, et al. **Clin Chim Acta** 1997 May 6;261(1):81–90
Quantitative detection of hepatitis C virus RNA in the serum of patients with chronic hepatitis C treated with interferon: a pilot study. Flichman D, et al. **Clin Diagn Virol** 1997 May;8(1):63–70
Antibodies to interferon (IFN) in hepatitis C patients relapsing while continuing recombinant IFN-alpha2 therapy. Antonelli G, et al. **Clin Exp Immunol** 1996 Jun; 104(3):384–7
Naive and memory T cell infiltrates in chronic hepatitis C: phenotypic changes with interferon treatment. Imada K, et al. **Clin Exp Immunol** 1997 Jul;109(1):59–66
Interferon alpha for the treatment of chronic hepatitis C in patients infected with human immunodeficiency virus. Hepatitis-HIV Spanish Study Group. Soriano V, et al. **Clin Infect Dis** 1996 Sep;23(3):585–91
Effective administration methods and dosages of interferon therapy for chronic hepatitis C. Nomura H, et al. **Clin Ther** 1996 Jul–Aug;18(4):671–9
Granulocyte-macrophage colony-stimulating factor as adjuvant therapy for factor as adjuvant therapy for interferon alpha treatment of chronic hepatitis C. Carreno V, et al. **Cytokine** 1996 Apr;8(4):318–22
Recombinant human granulocyte colony-stimulating factor reduces hepatitis C virus replication in mononuclear cells from chronic hepatitis C patients. Martin J, et al. **Cytokine** 1996 Apr;8(4):313–7
Interferon-induced vitiligo in a patient with chronic viral hepatitis C infection. Simsek H, et al. **Dermatology** 1996; 193(1):65–6 (11 ref.)
Thymus-derived peptides in the treatment of viral chronic hepatitis [see comments] Naylor PH, et al. **Dig Dis** 1996 Nov–Dec;14(6):362–70 (41 ref.). Comment in: Dig Dis 1996 Nov–Dec;14(6):331–3.
Treatment of chronic hepatitis C with amantadine. Smith JP. **Dig Dis Sci** 1997 Aug;42(8):1681–7
Development and exacerbation of oral lichen planus during and after interferon therapy for hepatitis C. Nagao Y, et al. **Eur J Clin Invest** 1996 Dec;26(12):1171–4
Detection of hepatitis C virus RNA in serum and peripheral blood mononuclear cells in patients with chronic hepatitis C treated with interferon alpha. Basaras M, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):887–90
Lichen planus and chronic hepatitis C: exacerbation of the lichen under interferon-alpha-2a therapy. Areias J, et al. **Eur J Gastroenterol Hepatol** 1996 Aug;8(8):825–8
Early negative tests for serum HCV RNA as a predictor of sustained response to interferon therapy in patients with chronic hepatitis C [comment] Marcellin P, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):237–8. Comment on: Eur J Gastroenterol Hepatol 1997 Mar;9(3):245–9.
Pre-treatment levels of anti-HCV core IgM antibodies are closely associated with response to alpha interferon therapy in chronic hepatitis C patients. Tabone M, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):287–91
Influence of recombinant interferon alpha on nutritional status and growth pattern in children with chronic viral hepatitis. Gottrand F, et al. **Eur J Pediatr** 1996 Dec; 155(12):1031–4
Management of chronic hepatitis C: a consensus. Dienstag JL. **Gastroenterology** 1997 Aug;113(2):375
A pilot study of the effects of d-alpha-tocopherol on hepatic stellate cell activation in chronic hepatitis C. Houglum K, et al. **Gastroenterology** 1997 Oct;113(4):1069–73
Long-term efficacy of ribavirin plus interferon alfa in the treatment of chronic hepatitis C. Lai MY, et al. **Gastroenterology** 1996 Nov;111(5):1307–12
Predictors of the efficacy of interferon therapy in chronic hepatitis C virus infection. Tokyo-Chiba Hepatitis Research Group. Shiratori Y, et al. **Gastroenterology** 1997 Aug;113(2):558–66
Mutations in the nonstructural 5A region of hepatitis C virus and response of chronic hepatitis C to interferon alfa. Squadrito G, et al. **Gastroenterology** 1997 Aug; 113(2):567–72
Disease stage of chronic hepatitis C assessed by both peritoneoscopic and histologic findings and its relationship with response to interferon therapy. Ohkawa K, et al. **Gastrointest Endosc** 1997 Feb;45(2):168–75
Pilot study of the combination of interferon alfa and ribavirin as therapy of recurrent hepatitis C after liver transplantation [see comments] Bizollon T, et al. **Hepatology** 1997 Aug;26(2):500–4. Comment in: Hepatology 1997 Aug;26(2):505–6.
Tolerance and efficacy of oral ribavirin treatment of chronic hepatitis C: a multicenter trial. Bodenheimer HC Jr, et al. **Hepatology** 1997 Aug;26(2):473–7
Pretreatment virus load and multiple amino acid substitutions in the interferon sensitivity-determining region predict the outcome of interferon treatment in patients with chronic genotype 1b hepatitis C virus infection [see comments] Chayama K, et al. **Hepatology** 1997 Mar;25(3):745–9. Comment in: Hepatology 1997 Mar;25(3):769–71.
The interferon sensitivity determining region: all hepatitis C virus isolates are not the same [editorial; comment] Herion D, et al. **Hepatology** 1997 Mar;25(3):769–71. Comment on: Hepatology 1997 Mar;25(3):740–4. Comment on: Hepatology 1997 Mar;25(3):745–9. Comment on: Hepatology 1997 Mar;25(3):750–3.
Analysis of genotypes and amino acid residues 2209 to 2248 of the NS5A region of hepatitis C virus in relation to the response to interferon-beta therapy [see comments] Kurosaki M, et al. **Hepatology** 1997 Mar;25(3):750–3. Comment in: Hepatology 1997 Mar;25(3):769–71.
Ribavirin and interferon for recurrent posttransplantation HCV infection: to treat or not to treat? [editorial; comment] McHutchison JG. **Hepatology** 1997 Aug;26(2):505–6. Comment on: Hepatology 1997 Aug;26(2):500–4.
Mutations in the nonstructural 5A gene of European hepatitis C virus isolates and response to interferon alfa [see comments] Zeuzem S, et al. **Hepatology** 1997 Mar; 25(3):740–4. Comment in: Hepatology 1997 Mar;25(3):769–71.
Effects of interferon-alpha treatment on neutrophil oxidative metabolism, lymphocyte proliferation and monocyte HLA class I antigen expression in patients with chronic hepatitis C. Piazzolla G, et al. **Immunopharmacol Immunotoxicol** 1996 Nov;18(4):529–48
Sustained remission and viraemia in chronic hepatitis C treated with recombinant alpha-interferon (rIFN-alpha). Bresci G, et al. **Int J Clin Pharmacol Res** 1995; 15(5–6):175–9
Interferon or corticosteroid: treatment of patients with chronic hepatitis C positive for serum markers of autoimmune diseases [editorial] Toda G. **Intern Med** 1997 Apr;36(4):233–5
Does the presence of serum autoantibodies influence the responsiveness to interferon-alpha 2a treatment in chronic hepatitis C? Wada M, et al. **Intern Med** 1997 Apr; 36(4):248–54
Hepatitis C virus genotypes in patients with persistent infection—a preliminary report. Bogomolski-Yahalom V, et al. **Isr J Med Sci** 1997 Jan;33(1):18–22
Efficacy of ursodeoxycholic acid therapy in chronic viral hepatitis C with high serum gamma-glutamyltranspeptidase levels. Kiso S, et al. **J Gastroenterol** 1996 Feb;31(1):75–80
Assessment of histological features and outcome of interferon therapy in chronic hepatitis C. Kumagai N, et al. **J Gastroenterol** 1996 Feb;31(1):69–74
Development of Sjögren's syndrome during treatment with recombinant human interferon-alpha-2b for chronic hepatitis C. Unoki H, et al. **J Gastroenterol** 1996 Oct; 31(5):723–7
Case report: agranulocytosis induced by interferon-alpha therapy for chronic hepatitis C. Higashi Y, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1012–5
Cyclosporine therapy affects aminotransferase activity but not hepatitis C virus RNA levels in chronic hepatitis C. Kakumu S, et al. **J Gastroenterol Hepatol** 1997 Jan; 12(1):62–6
Interferon treatment for chronic hepatitis C in haemodialysis patients: suggestions based on a small series. Okuda K, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):616–20
Efficacy of ursodeoxycholic acid in combination with interferon-alpha in treating chronic hepatitis C: results of a long-term follow-up trial. Tanaka K, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1155–60
Effects of combination therapy with interferon and ofloxacin on chronic type C hepatitis: a pilot study. Tsutsumi M, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1006–11
Ribavirin treatment for patients with chronic hepatitis C: results of a placebo-controlled study. Dusheiko G, et al. **J Hepatol** 1996 Nov;25(5):591–8
Serum interleukin 2 and soluble interleukin 2 receptor in chronic active hepatitis C: effect of interferon therapy. Simsek H, et al. **J Int Med Res** 1996 May–Jun;24(3):239–45
Clinical relevance of anti-interferon antibodies in the serum of chronic hepatitis C patients treated with interferon-alpha. Bonino F, et al. **J Interferon Cytokine Res** 1997 Jul;17 Suppl 1:S35–8
Multicenter randomized, controlled study of intramuscular administration of interferon-beta for the treatment of chronic hepatitis C. Castro A, et al. **J Interferon Cytokine Res** 1997 Jan;17(1):27–30
Interferon-associated thyroid dysfunction in anti-D-related chronic hepatitis C. Sachithanandan S, et al. **J Interferon Cytokine Res** 1997 Jul;17(7):409–11
A randomized controlled trial of high-dose maintenance interferon therapy in chronic hepatitis C. Di Marco V, et al. **J Med Virol** 1997 Jan;51(1):17–24
Changes in hepatitis C virus quasispecies and density populations in patients before and after interferon therapy. Nagasaka A, et al. **J Med Virol** 1996 Nov;50(3):214–20
Relevance of inapparent coinfection by hepatitis B virus in alpha interferon-treated patients with hepatitis C virus chronic hepatitis. Zignego AL, et al. **J Med Virol** 1997 Apr;51(4):313–8
Exacerbation of myasthenia gravis during interferon-alpha treatment [letter] Uyama E, et al. **J Neurol Sci** 1996 Dec; 144(1–2):221–2
Changes in results of Gallium-67-citrate scanning after interferon therapy for chronic hepatitis C. Shiomi S, et al. **J Nucl Med** 1997 Feb;38(2):216–9
Uncommon side-effects of interferon. Bailly F, et al. **J Viral Hepat** 1997;4 Suppl 1:89–94
Ribavirin and interferon-alpha combination therapy vs interferon-alpha alone in the retreatment of chronic hepatitis C: a randomized clinical trial. Bellobuono A, et al. **J Viral Hepat** 1997 May;4(3):185–91
Interferon treatment of chronic hepatitis C with cirrhosis. Cooksley WG. **J Viral Hepat** 1997;4 Suppl 1:85–8 (15 ref.)
Evaluation of efficacy of antiviral therapy for chronic hepatitis C: a EUROHEP Consensus Report on response criteria. Craxì A, et al. **J Viral Hepat** 1996 Sep;3(5):273–6 (14 ref.)
Variables that influence response to different interferon schedules in chronic hepatitis C and predictive models. De Salvo GL, et al. **J Viral Hepat** 1997;4 Suppl 1:79–83
Clinical relevance of hepatitis C virus quasispecies. Enomoto N, et al. **J Viral Hepat** 1995;2(6):267–72 (27 ref.)
A double-blind controlled trial of recombinant

interferon-alpha 2b in haemodialysis patients with chronic hepatitis C virus infection and abnormal aminotransferase levels. Nephrologists' Group for the Study of HCV infection. Fernández JL, et al. **J Viral Hepat** 1997 Mar; 4(2):113-9

Detectable levels of IgM antibodies to hepatitis C virus core protein predict breakthrough in patients with chronic hepatitis C treated with interferon-alpha. Fracassetti O, et al. **J Viral Hepat** 1996 Sep;3(5):265-6

Human leucocyte interferon-alpha in chronic hepatitis C resistant to recombinant or lymphoblastoid interferon-alpha: a randomized controlled trial. Gaeta GB, et al. **J Viral Hepat** 1997 May;4(3):209-14

Interleukin-12: potential clinical applications in the treatment of chronic viral hepatitis. Gately MK. **J Viral Hepat** 1997; 4 Suppl 1:33-9 (48 ref.)

Prolonged therapy of chronic hepatitis C with ribavirin. Hoofnagle JH, et al. **J Viral Hepat** 1996 Sep;3(5):247-52

Interferon treatment of cirrhotic patients with chronic hepatitis C. Idilman R, et al. **J Viral Hepat** 1997 Mar; 4(2):81-91 (75 ref.)

Virus and host factors are both important determinants of response to interferon treatment among patients with chronic hepatitis C. Lin R, et al. **J Viral Hepat** 1996 Mar; 3(2):85-96

Variations of hepatitis C virus NS5B sequence (nucleotides 8261-8566) do not correlate with response to interferon-alpha therapy. Nelson DR, et al. **J Viral Hepat** 1995;2(6):285-92

A model to predict long-term sustained response to interferon therapy in chronic hepatitis C. Noventa F, et al. **J Viral Hepat** 1997 May;4(3):193-7

Treatment of chronic hepatitis C with interferon: how long should a lasting response last if a lasting response could last? Ryff JC. **J Viral Hepat** 1997;4 Suppl 1:95-9

Transmission routes and clinical courses in sporadic acute hepatitis C. Sata M, et al. **J Viral Hepat** 1997 Jul;4(4):273-8

Effects of cirrhosis, interferon and azathioprine on adverse events in patients with chronic hepatitis C treated with ribavirin. Thevenot T, et al. **J Viral Hepat** 1997 Jul; 4(4):243-53

A preliminary experience with GM-CSF plus interferon in patients with HBV and HCV resistant to interferon therapy. Van Thiel DH, et al. **J Viral Hepat** 1997;4 Suppl 1:101-6

Response to interferon-alpha of Egyptian patients infected with hepatitis C virus genotype 4. el-Zayadi A, et al. **J Viral Hepat** 1996 Sep;3(5):261-4

Treatment of chronic hepatitis C with interferon-alpha: a preliminary report. Yu ML, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Oct; 12(10):581-9

Keio multicenter trial in high-dose interferon-alpha 2b treatment for chronic hepatitis C. Keio Interferon-alpha 2b Study Group. Saito H, et al. **Keio J Med** 1996 Sep; 45(3):161-7

Disappearance of serum hepatitis C virus RNA within two days after one dose interferon administration is predictive for response to high-dose interferon-alpha 2b treatment for chronic hepatitis C. Keio Interferon-alpha 2b Study Group. Saito H, et al. **Keio J Med** 1997 Jun;46(2):74-80

Interferon for hepatitis C [letter] Puoti C, et al. **Lancet** 1997 Feb 8;349(9049):398-9

Recombinant interferon-alpha-2a for treatment of chronic hepatitis C: results of a multicenter randomized controlled dose study. Imai Y, et al. **Liver** 1997 Apr;17(2):88-92

Antiviral treatment for HCV patients pre-renal transplantation? [letter] McLaughlin K, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1770-1

Hemosiderin deposition in portal endothelial cells is a histologic marker predicting poor response to interferon-alpha therapy in chronic hepatitis C. Kaji K, et al. **Pathol Int** 1997 Jun;47(6):347-52

Interferon-alpha-2b treatment of chronic hepatitis C in children with hemophilia. Zwiener RJ, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):906-8

The effects of interferon-alpha on serum lipid peroxidation and total thiol content in patients with chronic active hepatitis-C. Mutlu-Türkoglu U, et al. **Res Commun Mol Pathol Pharmacol** 1997 Jun;96(3):357-61

Influence of viral genotype and level of viremia on the severity of liver injury and the response to interferon therapy in Spanish patients with chronic C infection. Fernández I, et al. **Scand J Gastroenterol** 1997 Jan; 32(1):70-6

Treatment with recombinant interferon-alpha 2a for patients with chronic hepatitis C: predictive factors for biochemical and virologic response. Osaka Liver Disease Study Group. Hagiwara H, et al. **Scand J Gastroenterol** 1996 Oct; 31(10):1021-6

High levels of serum interleukin-10 are associated with a poor response to interferon treatment in patients with chronic hepatitis C. Kuzushita N, et al. **Scand J Gastroenterol** 1997 Feb;32(2):169-74

Antiviral therapy of hepatitis C. Schalm SW, et al. **Scand J Gastroenterol Suppl** 1997;223:46-9

Psoriatic arthritis with spinal involvement in a patient receiving alpha-interferon for chronic hepatitis C. Lombardini F, et al. **Scand J Rheumatol** 1997;26(1):58-60

Incidence of hepatocellular carcinoma after interferon therapy in patients with chronic hepatitis C. Onodera H, et al. **Tohoku J Exp Med** 1997 Feb;181(2):275-83

Long-term ribavirin therapy for recurrent hepatitis C after liver transplantation. Aljumah AA, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):514

New approaches to treatment of recurrent hepatitis C virus following liver transplantation using ribavirin. Bizollon T, et al. **Transplant Proc** 1996 Oct;28(5):2842-3 (13 ref.)

Treatment of hepatitis C virus infection with ribavirin in kidney transplant patients. Garnier JL, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):783

[Should Hepatitis C be treated? Objectives of antiviral treatments in hepatitis C virus infection] Degos F. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S57-65 (99 ref.) **(Fre)**

[Severe local cutaneous necrosis during treatment with interferon-alpha and ribavirin for chronic viral hepatitis C (letter)] de Ledinghen V, et al. **Gastroenterol Clin Biol** 1997;21(6-7):523-4 **(Fre)**

[The therapy of hepatitis C in the failure of interferon] Hermann R, et al. **Dtsch Med Wochenschr** 1997 Aug 22; 122(34-35):1049-54 (55 ref.) **(Ger)**

[Therapy noncompliance in chronic viral hepatitis--standard therapy, prognostic parameters, treatment strategy] Hopf U. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):83-5 **(Ger)**

[Effect of interferon-alpha2b therapy in chronic hepatitis C] Fehér J, et al. **Orv Hetil** 1996 Jun 2;137(22):1179-85 (Eng. Abstr.) **(Hun)**

[Use of ursodeoxycholic acid in treatment of chronic hepatitis C] Warunek W, et al. **Folia Med Cracov** 1996; 37(1-2):97-100 (17 ref.) (Eng. Abstr.) **(Pol)**

[Ribavirin for chronic hepatitis C: many doubts and some hope (editorial; comment)] Andrade Júnior DR, et al. **Arq Gastroenterol** 1995 Jul-Sep;32(3):102-4. Comment on: Arq Gastroenterol 1996 Jul-Sep;32(3):105-9. **(Por)**

[Ribavirin in the treatment of hepatic cirrhosis due to hepatitis C virus. A non-controlled study (see comments)] Parise ER, et al. **Arq Gastroenterol** 1995 Jul-Sep; 32(3):105-9 (Eng. Abstr.). Comment in: Arq Gastroenterol 1996 Jul-Sep;32(3):102-4. **(Por)**

[The Recormon (recombinant erythropoietin) treatment of a patient with pancytopenia of the blood and chronic viral hepatitis C] Lukina EA, et al. **Ter Arkh** 1996;68(8):46-8 **(Rus)**

[Treatment with interferon alpha of hemophiliacs with chronic hepatitis C (letter)] Aguilar Franco C, et al. **Rev Clin Esp** 1996 Oct;196(10):727-8 **(Spa)**

[Treatment with recombinant interferon alfa-2b of a patient with chronic hepatitis C and concomitant ulcerative colitis] De Diego Lorenzo A, et al. **Rev Esp Enferm Dig** 1997 May;89(5):399-401 (Eng. Abstr.) **(Spa)**

ECONOMICS

Therapy of hepatitis C: cost-effectiveness analysis. Koff RS. **Hepatology** 1997 Sep;26(3 Suppl 1):152S-155S (21 ref.)

[Treatment of chronic hepatitis C: doubts about a cost-effectiveness analysis (letter; comment)] Bergmann JF. **Gastroenterol Clin Biol** 1997;21(4):336-8. Comment on: Gastroenterol Clin Biol 1996;20(11):958-67. **(Fre)**

[Cost-effectiveness analysis of the treatment of chronic hepatitis C (see comments)] Joliot E, et al. **Gastroenterol Clin Biol** 1996;20(11):958-67 (Eng. Abstr.). Comment in: Gastroenterol Clin Biol 1997;21(4):336-8. **(Fre)**

[Economics and health policy: the example of hepatitis C viruses (editorial)] Pol S, et al. **Gastroenterol Clin Biol** 1996; 20(12):1049-52 **(Fre)**

ENZYMOLOGY

The N-terminal region of NS3 serine proteinase of hepatitis C virus is important to maintain its enzymatic integrity. Mori A, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):738-42

The crystal structure of hepatitis C virus NS3 proteinase reveals a trypsin-like fold and a structural zinc binding site. Love RA, et al. **Cell** 1996 Oct 18;87(2):331-42

alpha-Glutathione S-transferase levels in chronic hepatitis C infection and the effect of alpha-interferon therapy. Thorburn D, et al. **Clin Chim Acta** 1996 Sep 30; 253(1-2):171-80

Serum 2',5'-oligoadenylate synthetase concentrations in acute and chronic hepatitis C. Yang PM, et al. **J Formos Med Assoc** 1997 May;96(5):314-9

Serine protease inhibitors in patients with chronic viral hepatitis. Elzouki AN, et al. **J Hepatol** 1997 Jul;27(1):42-8

Circulating matrix metalloproteinase-2 and tissue inhibitor of metalloproteinase-1 as serum markers of fibrosis in patients with chronic hepatitis C. Relationship to interferon response. Kasahara A, et al. **J Hepatol** 1997 Mar; 26(3):574-83

Chronic hepatitis C virus infection in humans: induction of hepatic nitric oxide synthase and proposed mechanisms for carcinogenesis. Kane JM 3rd, et al. **J Surg Res** 1997 May; 69(2):321-4

Revised cutoff values of serum aminotransferase in detecting viral hepatitis among CAPD patients: experience from Taiwan, an endemic area for hepatitis B. Hung KY, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):180-3

[Appearance of hepatitis C virus replication and increase of aminotransferase activity after corticoid treatment of presumed autoimmune hepatitis. 2 cases] Béchade D, et al. **Gastroenterol Clin Biol** 1996;20(8-9):696-9 (Eng. Abstr.) **(Fre)**

EPIDEMIOLOGY

Prevalence and significance of hepatitis C virus (HCV) genotypes in anti-HCV positive patients in northwest Croatia. Golubić D, et al. **Acta Med Croatica** 1997; 51(2):79-82

Prevalence and epidemiology of hepatitis C infection in patients on peritoneal dialysis in France. French PD centers. Durand PY, et al. **Adv Perit Dial** 1996;12:167-70

Hepatitis C in dialysis patients. Natov SN, et al. **Adv Ren Replace Ther** 1996 Oct;3(4):275-83 (83 ref.)

Seroprevalence of hepatitis B and hepatitis C among rural emergency medical care personnel. Werman HA, et al. **Am J Emerg Med** 1997 May;15(3):248-51 (15 ref.)

Is the recent increase in the reported cases of hepatitis C/NANB a real increase? **Am J Infect Control** 1996 Oct; 24(5):415-6

Prevalence of hepatitis C in patients with idiopathic glomerulopathies in native and transplant kidneys. Cosio FG, et al. **Am J Kidney Dis** 1996 Nov;28(5):752-8

Is there a hepatitis C virus-associated membranoproliferative glomerulonephritis? [letter] Stehman-Breen C, et al. **Am J Kidney Dis** 1997 Oct;30(4):589-90

High prevalence of hepatitis C infection among blood donors in northeastern Thailand. Songsivilai S, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):66-9

HIV, hepatitis B, and hepatitis C in the Code One trauma population. Henein MN, et al. **Am Surg** 1997 Jul;63(7):657-9

Hepatitis C virus infection in 'primary' Sjögren's syndrome: prevalence and clinical significance in a series of 90 patients. García-Carrasco M, et al. **Ann Rheum Dis** 1997 Mar;56(3):173-5

Oral lichen planus and hepatitis C virus infection: a fortuitous association? [letter] Dupin N, et al. **Arch Dermatol** 1997 Aug;133(8):1052-3

National surveillance of dialysis associated diseases in the United States, 1993. Tokars JI, et al. **ASAIO J** 1996 May-Jun;42(3):219-29

Reported prevalence of hepatitis C among clients of needle exchanges in southeast Queensland. Selvey LA, et al. **Aust N Z J Public Health** 1996 Feb;20(1):61-4

Investigation of notifications of hepatitis C in 1994: the experience of three health departments. Selvey LA, et al. **Aust N Z J Public Health** 1996 Oct;20(5):525-9

Incidence and prevalence of hepatitis C among clients of a Brisbane methadone clinic: factors influencing hepatitis C serostatus. Selvey LA, et al. **Aust N Z J Public Health** 1997 Feb;21(1):102-4

Chronic hepatitis C virus infection after treatment for pediatric malignancy. Cesaro S, et al. **Blood** 1997 Aug 1; 90(3):1315-20

Outbreak of hepatitis C virus infection in patients with hematologic disorders treated with intravenous immunoglobulins: different prognosis according to the immune status. Rossi G, et al. **Blood** 1997 Aug 1; 90(3):1309-14

Prevalence of hepatitis C antibodies among healthcare workers of two teaching hospitals. Who is at risk? Neal KR, et al. **BMJ** 1997 Jan 18;314(7075):179-80

Geographical differences in prevalence of hepatitis C virus infection in PCT (porphyria cutanea tarda) [letter] Malina L, et al. **Br J Dermatol** 1997 Feb;136(2):291-2

Hepatitis C in Prince Edward Island: a descriptive review of reported cases, 1990-1995. Stratton E, et al. **Can J Public Health** 1997 Mar-Apr;88(2):91-4 (24 ref.)

Mutual confounding and interactive effects between hepatitis C and hepatitis B viral infections in hepatocellular carcinogenesis: a population-based case-control study in Taiwan. Sun CA, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):173-8

The epidemiology of hepatitis viruses B, C, and D. London WT, et al. **Clin Lab Med** 1996 Jun;16(2):251-71 (135 ref.)

The prevalence of positive hepatitis B, hepatitis C, and HIV serology in cornea donors prescreened by medical and social history in Ontario, Canada. Armstrong SA, et al. **Cornea** 1997 Sep;16(5):512-6

High prevalence of hepatitis C virus infection in diabetic patients. Simó R, et al. **Diabetes Care** 1996 Sep; 19(9):998-1000

Magnitude and management of HCV infection in France. Trépo C, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):22S-26S

Prevalence of hepatitis A, B and C in the Flemish population. Beutels M, et al. **Eur J Epidemiol** 1997 Apr;13(3):275-80

Prevalence of hepatitis C virus genotypes in southern Italy. Cicciarello S, et al. **Eur J Epidemiol** 1997 Jan;13(1):49-54

Prevalence of hepatitis A, B, and C markers in school children of a rural area of Crete, Greece. Lionis C, et al. **Eur J Epidemiol** 1997 Jun;13(4):417-20

Sexual transmission of hepatitis C virus infection. Scotto G, et al. **Eur J Epidemiol** 1996 Jun;12(3):241-4

Prevalence of hepatitis C virus infection in Nanjing, southern China. Suzuki K, et al. **Eur J Epidemiol** 1997 Jul; 13(5):511-5

The prevalence of HCV infection in a cohort of pregnant women, the related risk factors and the possibility of vertical transmission. Tanzi M, et al. **Eur J Epidemiol** 1997 Jul;13(5):517-21

Epidemiology of hepatitis C. Alter MJ. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):319-23 (32 ref.)

Risk of hepatobiliary disease in adults with severe alpha 1-antitrypsin deficiency (PiZZ): is chronic viral hepatitis

B or C an additional risk factor for cirrhosis and hepatocellular carcinoma? Elzouki AN, et al. **Eur J Gastroenterol Hepatol** 1996 Oct;8(10):989–94

The natural history of chronic hepatitis C infection. Strader DB, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):324–8 (31 ref.)

Hepatitis C and G virus infections in polytransfused children. Chung JL, et al. **Eur J Pediatr** 1997 Jul;156(7):546–9

Hepatitis B and C virus infection in Polish children with malignancies. Januszkiewicz D, et al. **Eur J Pediatr** 1997 Jun;156(6):454–6

Hepatitis C virus infection among cryoglobulinemic and non-cryoglobulinemic B-cell non-Hodgkin's lymphomas. Silvestri F, et al. **Haematologica** 1997 May–Jun;82(3):314–7

Epidemiology of hepatitis C. Alter MJ. **Hepatology** 1997 Sep; 26(3 Suppl 1):62S–65S (21 ref.)

Hepatitis B and C virus infection, alcohol drinking, and hepatocellular carcinoma: a case-control study in Italy. Brescia HCC Study. Donato F, et al. **Hepatology** 1997 Sep; 26(3):579–84

Hepatitis C in a French population-based survey, 1994: seroprevalence, frequency of viremia, genotype distribution, and risk factors. The Collaborative Study Group. Dubois F, et al. **Hepatology** 1997 Jun;25(6):1490–6

Prevalence, risk factors, and genotype distribution of hepatitis C virus infection in the general population: a community-based survey in southern Italy. Guadagnino V, et al. **Hepatology** 1997 Oct;26(4):1006–11

Hepatitis C virus: epidemiology and transmission. Heintges T, et al. **Hepatology** 1997 Sep;26(3):521–6 (95 ref.)

Performance characteristics and results of a large-scale screening program for viral hepatitis and risk factors associated with exposure to viral hepatitis B and C: results of the National Hepatitis Screening Survey. National Hepatitis Surveillance Group. Kaur S, et al. **Hepatology** 1996 Nov;24(5):979–86

High prevalence of hepatitis C virus infection in Japanese patients with porphyria cutanea tarda [letter] Kondo M, et al. **Hepatology** 1997 Jul;26(1):246

The incidence and risk factors of community-acquired hepatitis C in a cohort of Italian blood donors. Prati D, et al. **Hepatology** 1997 Mar;25(3):702–4

Risk factors for cirrhosis in patients with chronic hepatitis C virus infection: results of a case-control study. Serfaty L, et al. **Hepatology** 1997 Sep;26(3):776–9

Etiology of sporadic acute and fulminant non-A, non-B viral hepatitis in north India. Kar P, et al. **Indian J Gastroenterol** 1997 Apr;16(2):43–5

Seroprevalence of hepatitis C virus in various groups living in captivity [letter] Nijhawan S, et al. **Indian J Gastroenterol** 1997 Apr;16(2):75–6

Prevalence of anti-HCV antibodies in central India. Jaiswal SP, et al. **Indian J Med Res** 1996 Aug;104:177–81

Prevalence of anti-HCV antibodies in chronic liver disease in the Czech Republic [letter] Stránský J, et al. **Infection** 1997 Jan–Feb;25(1):49–50

High prevalence of hepatitis C virus (HCV) genotype 2 in Italian patients with chronic liver disease. Sartori M, et al. **Ital J Gastroenterol** 1996 Oct–Nov;28(8):452–6

Hepatitis C—a threat to public health. **J Ark Med Soc** 1997 Jul;94(2):82

Hepatitis C—a silent epidemic [editorial] Qureshi WA. **J Ark Med Soc** 1997 Aug;94(3):100–2

Low prevalence of hepatitis C viral infection in patients with non-alcoholic chronic liver disease in India. Sarin SK, et al. **J Assoc Physicians India** 1996 Apr;44(4):243–5

Use of the hepatitis-B vaccine and infection with hepatitis B and C among orthopaedic surgeons. The American Academy of Orthopaedic Surgeons Serosurvey Study Committee. Shapiro CN, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1791–800

Relevance of intravenous cocaine use in relation to prevalence of HIV, hepatitis B and C virus markers among intravenous drug abusers in southern Italy. Guadagnino V, et al. **J Clin Lab Immunol** 1995;47(1):1–9

High incidence of hepatitis C virus infection in hemodialysis patients in units with high prevalence. Pujol FH, et al. **J Clin Microbiol** 1996 Jul;34(7):1633–6

Hepatitis C virus genotypes in northern Italy: clinical and virological features. Ravaggi A, et al. **J Clin Microbiol** 1996 Nov;34(11):2822–5

Prevalence of inhabitants with anti-hepatitis C virus antibody in an area following an acute hepatitis C epidemic: age-and area-related features. Ishibashi M, et al. **J Epidemiol** 1996 Mar;6(1):1–7

Very low incidence rates of community-acquired hepatitis C virus infection in company employees, long-term inpatients, and blood donors in Japan. Sasaki F, et al. **J Epidemiol** 1996 Dec;6(4):198–203

Long term survey of hepatitis C virus infection in hemodialysis units in Fukuoka, Japan. Yamaji K, et al. **J Epidemiol** 1996 Dec;6(4):166–71

Hepatitis C virus subtype 3b infection in a hospital in Japan: epidemiological study. Ikeda K, et al. **J Gastroenterol** 1996 Dec;31(6):801–5

Antibodies to hepatitis C virus and elevated transaminase levels in a town of hyperendemicity in Iwate, Japan. Koyama T, et al. **J Gastroenterol Hepatol** 1997 Jan; 12(1):67–72

Epidemiology of genotypes of hepatitis C virus in Japanese patients with type C chronic liver diseases: a multi-institution analysis. Yamada G, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):538–45

Lack of epidemiological evidence for a link between thyroid auto-immune disease and hepatitis C virus infection [letter] Gorez E, et al. **J Hepatol** 1997 Mar;26(3):738–9

Epidemiology of hepatitis C virus infection in an area of Southern Italy. Osella AR, et al. **J Hepatol** 1997 Jul; 27(1):30–5

Epidemiological, clinical and therapeutic associations of hepatitis C types in western European patients. Simmonds P, et al. **J Hepatol** 1996 May;24(5):517–24

Incidence of non-A, non-B and HCV positive hepatitis in healthcare workers in Italy. Stroffolini T, et al. **J Hosp Infect** 1996 Jun;33(2):131–7

Distribution of infecting hepatitis C virus genotypes in end-stage liver disease patients at a large American transplantation center. Vargas HE, et al. **J Infect Dis** 1997 Feb;175(2):448–50

Hepatitis C virus infection in a human immunodeficiency virus-positive cohort in Hawaii [letter; comment] Vogt RL, et al. **J Infect Dis** 1997 Aug;176(2):542–3. Comment on: J Infect Dis 1997 Jan;175(1):164–8.

Acute sporadic hepatitis in the Republic of Yemen. Gunaid AA, et al. **J Med Virol** 1997 Jan;51(1):64–6

High rate of hepatitis C virus infection in an isolated community: persistent hyperendemicity or period-related phenomena? Ho MS, et al. **J Med Virol** 1997 Aug; 52(4):370–6

Magnitude of hepatitis C virus infection in India: prevalence in healthy blood donors, acute and chronic liver diseases. Panigrahi AK, et al. **J Med Virol** 1997 Mar;51(3):167–74

The prevalence of hepatitis C in survivors of paediatric malignancy. Carter TL, et al. **J Paediatr Child Health** 1997 Jun;33(3):238–41

Genotypic variation, clinical and histological characteristics of chronic hepatitis C detected at blood donor screening. Bird GL, et al. **J Viral Hepat** 1995;2(5):261–5

A high prevalence of antibodies to hepatitis C virus among commercial plasma donors from Western India. Jha J, et al. **J Viral Hepat** 1995;2(5):257–60

Current prevalence of hepatitis A, B and C in a well-defined area in rural Crete, Greece. Lionis C, et al. **J Viral Hepat** 1997 Jan;4(1):55–61

Prevalence of hepatitis C antibodies in health care personnel. Miyajima I, et al. **Kansenshogaku Zasshi** 1997 Feb; 71(2):103–7

The role of hepatitis C virus in the aetiology of non-Hodgkins lymphoma--a regional association? McColl MD, et al. **Leuk Lymphoma** 1997 Jun;26(1–2):127–30

Incidence of post-transfusion hepatitis in Taiwan before and after introduction of anti-HCV testing. Chang TT, et al. **Liver** 1996 Jun;16(3):201–6

Hepatitis B and C in New South Wales prisons: prevalence and risk factors. Butler TG, et al. **Med J Aust** 1997 Feb 3;166(3):127–30

A cruel and unusual punishment [editorial] Crofts N. **Med J Aust** 1997 Feb 3;166(3):116

Incidence of bloodborne virus infection and risk behaviours in a cohort of injecting drug users in Victoria, 1990–1995. Crofts N, et al. **Med J Aust** 1997 Jul 7;167(1):17–20

Hepatitis C: waiting for the grim reaper [editorial; comment] Wodak A. **Med J Aust** 1997 Mar 17;166(6):284–5. Comment on: Med J Aust 1997 Mar 17;166(6):290–3.

Hepatitis C virus among health care workers. De Mercato R, et al. **Minerva Med** 1996 Nov;87(11):501–4

Hepatitis C virus infection in family members of chronic carriers. De Mercato R, et al. **Minerva Med** 1996 Jul–Aug; 87(7–8):335–7

Epidemiology of HCV infection in the general population and in blood transfusion. Botté C, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:19–21 (8 ref.)

Epidemiology of hepatitis C virus infection in chronic haemodialysis. Chauveau P. **Nephrol Dial Transplant** 1996; 11 Suppl 4:39–41 (16 ref.)

Epidemiology of HCV infection: disease and renal transplantation. Cisterne JM, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:46–7

Impact of dialysis room and reuse strategies on the incidence of hepatitis C virus infection in haemodialysis units. dos Santos JP, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2017–22

Incidence and risk factors of hepatitis C virus infection in a haemodialysis unit. Forns X, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):736–40

Prevalence and risk factors for hepatitis C virus infection in continuous ambulatory peritoneal dialysis patients. Górriz JL, et al. **Nephrol Dial Transplant** 1996 Jun; 11(6):1109–12

Hepatitis C infection in renal transplant patients: new insights and unanswered questions. Pirson Y, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:42–5 (23 ref.)

Superinfection with hepatitis C virus in hemodialysis patients with hepatitis B surface antigenemia: its prevalence and clinical significance in Taiwan. Chen KS, et al. **Nephron** 1996;73(2):158–64

Low prevalence of hepatitis C virus antibodies in a Spanish population with glomerular diseases [letter] Gonzalo A, et al. **Nephron** 1997;76(2):245–6

Dialysis unit without hepatitis C virus infection in Slovenia [letter] Seme K, et al. **Nephron** 1996;73(2):322

GB virus C and hepatitis C virus infections in hemodialysis patients in eight Japanese centers. Watanabe T, et al. **Nephron** 1997;76(2):171–5

Risk factors for HCV infection in two haemodialysis units in The Netherlands. Keur I, et al. **Neth J Med** 1997 Mar; 50(3):97–101

Detection of genotype 4 hepatitis C virus (HCV) in Italy. Tagliaferro L, et al. **New Microbiol** 1997 Jan;20(1):87–8

Hepatitis B and C in doctors and dentists in Nigeria. Olubuyide IO, et al. **QJM** 1997 Jun;90(6):417–22

The threat to public health of hepatitis C. Lavanchy D. **Res Virol** 1997 Mar–Apr;148(2):143–5

Prevalence of hepatitis C antibodies among health care workers at high risk for blood exposure. Martins RM, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug;38(4):309–10

Concomitant high prevalence of hepatitis C virus antibodies and hepatitis B virus markers in a small village of the Amazon Region, Mato Grosso State, Brazil. Souto FJ, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):221–3

Epidemiological and clinical aspects of acute hepatitis C in north-eastern Poland. Sokolewicz-Bobrowska E, et al. **Rocz Akad Med Bialymst** 1996;41(2):381–9

Hepatitis C virus infection rate in volunteer blood donors from the Western Cape—comparison of screening tests and PCR. Tucker TJ, et al. **S Afr Med J** 1997 May;87(5):603–5

Routes of transmission of hepatitis C virus in an endemic rural area of Japan. Molecular epidemiologic study of hepatitis C virus infection. Noguchi S, et al. **Scand J Infect Dis** 1997;29(1):23–8

Incidence rate and risk factors for HCV seroconversion among injecting drug users in an area with low HIV seroprevalence. Rezza G, et al. **Scand J Infect Dis** 1996; 28(1):27–9

Distribution of hepatitis C virus genotypes in Slovenia. Seme K, et al. **Scand J Infect Dis** 1997;29(1):29–31

Seroprevalence of and risk factors for antibodies to herpes simplex viruses, hepatitis B, and hepatitis C among southwestern Hispanic and non-Hispanic white women. Becker TM, et al. **Sex Transm Dis** 1996 Mar–Apr; 23(2):138–44

Hepatitis C antibody prevalence in blood donors in different governorates in Egypt. Arthur RR, et al. **Trans R Soc Trop Med Hyg** 1997 May–Jun;91(3):271–4

Tropical aspects of viral hepatitis. Hepatitis C. Tibbs CJ. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr;91(2):121–4 (32 ref.)

Seroepidemiology of hepatitis B, C and delta viruses in Tunisia. Triki H, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):11–4

Prevalence of hepatitis B and C in patients registered on the cadaver kidney transplant waiting list in Mexico. Alberú J, et al. **Transplant Proc** 1996 Dec;28(6):3298–300

Prospective study of hepatitis C virus infection after orthotopic liver transplantation. Barcena R, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):515–6

Effect of chronic liver disease on clinical outcome in renal allograft recipients. Durlik M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):787–90

Prevalence and seroconversion to HCV in hemodialyzed patients, and epidemiological factors. Morales MF, et al. **Transplant Proc** 1996 Dec;28(6):3402–5

Long-term follow-up in hepatitis C patients with respect to immunosuppression. Mueller AR, et al. **Transplant Proc** 1996 Dec;28(6):3241–2

Comparison of isolated infection by hepatitis C (HCV) or by hepatitis B (HBV) viruses and of coinfection by HCV-HBV in 1098 renal transplant patients. Pouteil-Noble C, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):791–2

GB virus C infection in patients with chronic hepatitis B and C before and after liver transplantation. Berg T, et al. **Transplantation** 1996 Sep 27;62(6):711–4

Long-term follow-up of hepatitis C virus infection among organ transplant recipients: implications for policies on organ procurement. Bouthot BA, et al. **Transplantation** 1997 Mar 27;63(6):849–53

The high prevalence of severe early posttransplant renal allograft pathology in hepatitis C positive recipients. Cosio FG, et al. **Transplantation** 1996 Oct 27;62(8):1054–9

The long-term course of hepatitis C after kidney transplantation. Kliem V, et al. **Transplantation** 1996 Nov 27;62(10):1417–21

Prevalence of hepatitis C virus infection among beta-thalassaemia major patients. Abdul Mujeeb S, et al. **Trop Doct** 1997 Apr;27(2):105

Hepatitis B and C infection among drug abusers in Nepal. Shrestha SM, et al. **Trop Gastroenterol** 1996 Oct–Dec; 17(4):212–3

A clinical, epidemiological and laboratory study on avoiding the risk of transmitting viral hepatitis during vaccinations with the Dermojet protected by an anticontaminant disposable device. Dimache G, et al. **Vaccine** 1997 Jun; 15(9):1010–3

HCV-Infection in blood donors: association between anti-HCV core IgM antibodies and serum HCV RNA. Ounanian-Paraz A, et al. **Vox Sang** 1996;70(3):139–43

Hepatitis C. Seroprevalence of hepatitis C virus (HCV) in a population sample. **Wkly Epidemiol Rec** 1996 Nov 15; 71(46):346–9 **(Eng, Fre)**

Hepatitis C. **Wkly Epidemiol Rec** 1997 Mar 7;72(10):65–9 (0 ref.) **(Eng, Fre)**

Seroprevalence of HIV and HCV infections in Alexandria, Egypt. Quinti I, et al. **Zentralbl Bakteriol** 1995 Dec; 283(2):239–44

[Hepatitis C] Laverdant C. **Bull Acad Natl Med** 1996 Jun–Jul; 180(6):1215–7 **(Fre)**

HEPATITIS C

[Epidemiology of infections linked to hepatitis C virus in France] Roudot-Thoraval F. **Bull Acad Natl Med** 1996 Jun-Jul;180(6):1253-62; discussion 1263-5 (Eng. Abstr.) **(Fre)**

[Prevalence of hepatitis C virus infection in the general population of Madagascar] Zeller H, et al. **Bull Soc Pathol Exot** 1997;90(1):3-5 (Eng. Abstr.) **(Fre)**

[What is known about viral hepatitis C seroprevalence in Africa?] Deparis X, et al. **Med Trop (Mars)** 1996; 56(2):117-21 (24 ref.) **(Fre)**

[Hepatitis C epidemiology in the world] Richard V. **Med Trop (Mars)** 1996;56(4):393-9 (102 ref.) (Eng. Abstr.) **(Fre)**

[Viral hepatitis in French United Nations military personnel] Samson T, et al. **Rev Epidemiol Sante Publique** 1996 Oct; 44(5):465-9 **(Fre)**

[Epidemiology of hepatitis C in 1997 in France] Micoud M. **Rev Med Interne** 1997;18 Suppl 2:60s-62s (14 ref.) **(Fre)**

[Recent epidemiologic findings on hepatitis C virus] Gangneux JP. **Sante** 1997 Jan-Feb;7(1):65-6 **(Fre)**

[Screening and confirmation of anti-HCV antibodies in Tunisian blood donors] Abid S, et al. **Transfus Clin Biol** 1997;4(2):221-6 (Eng. Abstr.) **(Fre)**

[Descriptive epidemiology of hepatitis C virus infection in France in 1996] Lefrère JJ. **Transfus Clin Biol** 1997; 4(3):299-319 (111 ref.) (Eng. Abstr.) **(Fre)**

[Prevalence of hepatitis C virus in blood donors and comparison of 4 different anti-HCV differentiation tests] Hennig H, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:231-4 (Eng. Abstr.) **(Ger)**

[Occupational medicine significance of hepatitis C in health care employees] Hofmann F, et al. **Gesundheitswesen** 1997 Jul;59(7):452-60 (58 ref.) (Eng. Abstr.) **(Ger)**

[Risk of hepatitis C virus infection in medical occupations] Kaufmann M, et al. **Versicherungsmedizin** 1997 Aug 1; 49(4):132-4 (21 ref.) (Eng. Abstr.) **(Ger)**

[Epidemiologic study of hepatitis C virus infections in the population monitored by the former Local Health Unit 10] Zanardi G, et al. **Minerva Gastroenterol Dietol** 1996 Sep; 42(3):127-31 (Eng. Abstr.) **(Ita)**

[Study on the positive rate of infectious diseases in in-patients at the department of oral surgery] Komori T, et al. **Kokubyo Gakkai Zasshi** 1996 Sep;63(3):478-81 (Eng. Abstr.) **(Jpn)**

[High prevalence of hcv infection in a town where high mortality from liver disease is observed] Hidaka Y, et al. **Nippon Koshu Eisei Zasshi** 1996 Jan;43(1):9-15 (Eng. Abstr.) **(Jpn)**

[Prevalence of hepatitis C virus and human immunodeficiency virus infection among female prison inmates in Japan] Nara K, et al. **Nippon Koshu Eisei Zasshi** 1997 Jan;44(1):55-60 (Eng. Abstr.) **(Jpn)**

[Survey for hepatitis in an isolated endemic area] Watanabe Y, et al. **Nippon Koshu Eisei Zasshi** 1996 Nov;43(11):989-96 (Eng. Abstr.) **(Jpn)**

[Infection with hepatitis GB virus C in intravenous drug abusers with type C chronic liver diseases] Kojima M, et al. **Nippon Rinsho** 1997 Mar;55(3):549-53 (15 ref.) (Eng. Abstr.) **(Jpn)**

[C-type hepatitis in spontaneous intracerebral hemorrhage] Aiba T, et al. **No To Shinkei** 1996 Dec;48(12):1116-9 (Eng. Abstr.) **(Jpn)**

[Epidemiologic and clinical characteristics of patients with hepatitis type C on the bases of selected parameters] Warunek W, et al. **Folia Med Cracov** 1996;37(3-4):71-9 (Eng. Abstr.) **(Pol)**

[HBV and HCV infections among selected group of patients and staff members in the prospective study] Urbanowicz W. **Przegl Epidemiol** 1996;50(4):365-70 (Eng. Abstr.) **(Pol)**

[Prevalence of hepatitis B and C infection and HIV infection in blood donors and patients from the internal diseases ward] Kozik T, et al. **Przegl Lek** 1996;53(3):159-61 (Eng. Abstr.) **(Pol)**

[Familial infection by the hepatitis C virus] Miranda HP, et al. **Acta Med Port** 1997 Jan;10(1):67-70 (Eng. Abstr.) **(Por)**

[Prevalence of hepatitis C virus in urban and rural populations of northeast Brazil-pilot study] Silva L, et al. **Arq Gastroenterol** 1995 Oct-Dec;32(4):168-71 (Eng. Abstr.) **(Por)**

[Epidemiological evaluations of the incidence of posttransfusion hepatitis in Iaşi County in 1985-1995] Ivan A, et al. **Bacteriol Virusol Parazitol Epidemiol** 1997 Jan-Jun;42(1-2):87-93 (Eng. Abstr.) **(Rum)**

[The epidemiology of hepatitis C] Rădulescu A, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan-Jun; 38(1-2):85-9 (27 ref.) **(Rum)**

[Regularities in the spread of hepatitis C virus and its genotypes in Russian and countries within the former USSR] L'vov DK, et al. **Vopr Virusol** 1997 Jul-Aug; 42(4):157-61 (Eng. Abstr.) **(Rus)**

[An epidemiological evaluation of the incidence of detecting markers of hepatitis B and C viral infection in the blood of the medical personnel of a large general hospital] Akimkin VG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):36-40 (Eng. Abstr.) **(Rus)**

[Incidence and clinical manifestations of hepatitis C virus infection in patients on hemodialysis] Radović M, et al. **Srp Arh Celok Lek** 1996;124 Suppl 1:123-5 (Eng. Abstr.) **(Scc)**

[Prevalence of hepatitis C virus infection in adolescents (letter)] Costa Zamora P, et al. **Aten Primaria** 1997 Feb 15;19(2):101 **(Spa)**

[Recurrence of hepatitis caused by hepatitis c virus in patients receiving a liver transplant] Crespo J, et al. **Med Clin (Barc)** 1997 Jan 25;108(3):98-102 (Eng. Abstr.) **(Spa)**

[Seroepidemiologic study of hepatitis C virus infection in a general population from the region of La Rioja, Spain] Sacristán B, et al. **Med Clin (Barc)** 1996 Sep 21;107(9):331-5 (Eng. Abstr.) **(Spa)**

[HCV and HBV seropositivity in university students of the State of Nuevo León, Mexico] Flores-Castañeda MS, et al. **Rev Gastroenterol Mex** 1996 Oct-Dec;61(4):327-31 (Eng. Abstr.) **(Spa)**

[Prevalence of serologic markers of hepatitis A, B, C, and D viruses in pregnant women] Ortiz-Ibarra FJ, et al. **Salud Publica Mex** 1996 Sep-Oct;38(5):317-22 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Very high prevalence of hepatitis B and C in Bukharian Jewish immigrants to Israel. Glikberg F, et al. **J Clin Gastroenterol** 1997 Jan;24(1):30-3

ETIOLOGY

Hepatitis C virus serology in parenteral drug users with chronic liver disease. Novick DM, et al. **Addiction** 1997 Feb;92(2):167-71

Hepatitis C virus recurrence after liver transplantation: relationship to anti-HCV core IgM, genotype, and level of viremia. Crespo J, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1458-62

Use of OKT3 is associated with early and severe recurrence of hepatitis C after liver transplantation [see comments] Rosen HR, et al. **Am J Gastroenterol** 1997 Sep;92(9):1453-7 . Comment in: Am J Gastroenterol 1997 Sep;92(9):1416-7.

Hepatitis C recurrence after liver transplantation: is there cause for concern? [editorial; comment] Sorrell MF. **Am J Gastroenterol** 1997 Sep;92(9):1416-7. Comment on: Am J Gastroenterol 1997 Sep;92(9):1453-7.

Pathogenesis of chronic hepatitis C and associated clinical manifestations. Booth JC, et al. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):257-74 (96 ref.)

The natural history of chronic hepatitis C in haemophiliacs [letter; comment] Lee CA, et al. **Br J Haematol** 1997 Mar; 96(4):875-6. Comment on: Br J Haematol 1996 Sep;94(4):746-52.

Hepatitis C and intravenous immunoglobulin. April 29-30, 1995, Orlando, Florida. Papers from the symposium. **Clin Ther** 1996;18 Suppl B:1-139

Intravenous immunoglobulin and hepatitis C virus: the Scandinavian experience. Björkander J, et al. **Clin Ther** 1996;18 Suppl B:73-82

Gammagard and reported hepatitis C virus episodes. Gomperts ED. **Clin Ther** 1996;18 Suppl B:3-8 (14 ref.)

Intravenous immunoglobulin and hepatitis C virus: the British episode. Healey C, et al. **Clin Ther** 1996;18 Suppl B:93-5

Hepatitis C virus infection in Italian patients with hypogammaglobulinemia. Quinti I, et al. **Clin Ther** 1996; 18 Suppl B:96-107

Intravenous immunoglobulin and hepatitis C virus: the Boston episode. Schneider LC, et al. **Clin Ther** 1996;18 Suppl B:108-9

Intravenous immunoglobulin and hepatitis C virus: an overview of transmission episodes with emphasis on manufacturing data. Yap PL. **Clin Ther** 1996;18 Suppl B:43-58 (56 ref.)

Safety of intravenous immunoglobulin with regard to hepatitis C virus. Yu MW, et al. **Clin Ther** 1996;18 Suppl B:71-2

Prevalence of antibodies to hepatitis C virus in drug-dependent patients in Jeddah, Saudi Arabia. Njoh J, et al. **East Afr Med J** 1997 Feb;74(2):89-91

Genotyping of hepatitis C virus isolates from Basque Country, Spain. Cilla G, et al. **Epidemiol Infect** 1996 Dec; 117(3):533-6

Hepatitis C after orthotopic liver transplantation. Araya V, et al. **Gastroenterology** 1997 Feb;112(2):575-82 (47 ref.)

Long-term outcome of hepatitis C virus infection after liver transplantation. Böker KH, et al. **Hepatology** 1997 Jan; 25(1):203-10

Transplant-associated autoimmune mechanisms in human hepatitis C virus infection. Zucker K, et al. **J Clin Immunol** 1996 Jan;16(1):60-70

HCV activity in Calcutta--a serological study. Neogi DK, et al. **J Commun Dis** 1997 Mar;29(1):1-6

Risk factors in community-acquired chronic hepatitis C virus infection: a case-control study in Italy [see comments] Chiaramonte M, et al. **J Hepatol** 1996 Feb;24(2):129-34. Comment in: J Hepatol 1997 Jan;26(1):217. Comment in: J Hepatol 1997 Feb;26(2):450.

Is there a role for immune responses in the pathogenesis of hepatitis C? [see comments] Mondelli MU. **J Hepatol** 1996 Aug;25(2):232-8 (52 ref.). Comment in: J Hepatol 1997 May;26(5):1157-8.

Hepatitis C virus infection, tuberculosis, and sexually transmitted diseases [letter; comment] Nishioka S de A. **J Hepatol** 1997 Feb;26(2):450. Comment on: J Hepatol 1996 Feb;24(2):129-34.

Timing of IFN therapy initiation for acute hepatitis C after accidental needlestick [letter] Sata M, et al. **J Hepatol** 1997 Aug;27(2):425-6

Effect of human immunodeficiency virus on hepatitis C virus infection among injecting drug users. Thomas DL, et al. **J Infect Dis** 1996 Oct;174(4):690-5

The prevalence of hepatitis C in survivors of paediatric malignancy. Carter TL, et al. **J Paediatr Child Health** 1997 Jun;33(3):238-41

Hepatitis C virus infection associated with administration of intravenous immune globulin. A cohort study [see comments] Bresee JS, et al. **JAMA** 1996 Nov 20; 276(19):1563-7. Comment in: JAMA 1997 Feb 26;277(8):627; discussion 627-8.

Hepatitis C virus infection in dialysis and renal transplantation. Pereira BJ, et al. **Kidney Int** 1997 Apr; 51(4):981-99 (273 ref.)

Hepatitis C in renal transplantation [clinical conference] Vosnides GG. **Kidney Int** 1997 Sep;52(3):843-61

HGV infection in dialysis patients [letter] Beccari M, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2370-1

Natural history of hepatitis C virus infection. Degos F. **Nephrol Dial Transplant** 1996;11 Suppl 4:16-8 (14 ref.)

Incidence and risk factors of hepatitis C virus infection in a haemodialysis unit. Forns X, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):736-40

Absence of seroconversion to hepatitis C virus infection in CAPD patients [letter] Górriz JL, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):373-4

Revised cutoff values of serum aminotransferase in detecting viral hepatitis among CAPD patients: experience from Taiwan, an endemic area for hepatitis B. Hung KY, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):180-3

Hepatitis C infection in patients with chronic renal failure receiving conservative therapy [letter] Ilçöl B, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):626

Hepatitis C in transplantation [editorial] Pereira BJ. **Nephrol Dial Transplant** 1996 Aug;11(8):1520-2

Liver disease in dialysis patients with antibodies to hepatitis C virus. al-Wakeel J, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2265-8

Post-transfusion hepatitis after open-heart surgery in Finland--a prospective study. Ebeling F, et al. **Transfus Med** 1991 Jun;1(2):103-7

Post-transfusion hepatitis C in Finland. Ebeling F, et al. **Transfus Med** 1991 Jun;1(2):109-13

Outcome of renal graft recipients with hepatitis C virus infection. Rodrigues A, et al. **Transpl Int** 1996;9 Suppl 1:S28-31

Natural course of HCV viremia following liver transplantation and clinical course of reinfection. Safadi R, et al. **Transplant Proc** 1997 Sep;29(6):2635-9

Hepatitis-C-associated cryoglobulinemia after liver transplantation. Safadi R, et al. **Transplant Proc** 1997 Sep; 29(6):2684-6

Hepatitis C infection in renal transplant recipients in Israel. Weinstein T, et al. **Transplant Proc** 1997 Sep;29(6):2696-8

Relationship between hepatitis C genotype and severity of recurrent hepatitis C after liver transplantation. Gordon FD, et al. **Transplantation** 1997 May 27;63(10):1419-23

OKT3 and hepatitis C: defining the risks [letter; comment] Rosen HR, et al. **Transplantation** 1997 Jan 15;63(1):171-2 . Comment on: Transplantation 1996 Feb 27;61(4):542-6.

De novo hepatitis B and C viral infection after liver transplantation. Cavallari A, et al. **World J Surg** 1997 Jan; 21(1):78-84; discussion 85

[Hepatitis C seropositivity after multiple transfusions in sickle cell anemia patients in Yaounde, Cameroon (letter)] Kemmegne J, et al. **Med Trop (Mars)** 1996;56(3):309-10 **(Fre)**

[Familial porphyria cutanea tarda disclosed by chronic hepatitis C. Apropos of a case] About I, et al. **Rev Med Interne** 1996;17(12):1020-4 (26 ref.) (Eng. Abstr.) **(Fre)**

[Cell death in digestive system diseases--molecular mechanism and clinical significance of cell proliferation] Kamada T. **Nippon Naika Gakkai Zasshi** 1996 Sep 10; 85(9):1398-406 (12 ref.) **(Jpn)**

[Apoptosis in human diseases: role of Fas system in liver cell injury by viral hepatitis] Mita E, et al. **Rinsho Byori** 1997 May;45(5):477-82 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Viral hepatitis type B and C in patients with chronic renal failure treated with dialysis] Niemczyk S. **Pol Arch Med Wewn** 1996 Nov;96(5):484-9 (37 ref.) **(Pol)**

[Etiology of chronic hepatitis as evaluated by liver biopsy and serum samples submitted to the Department of Immunopathology of the National Institute of Hygiene in 1993-1995] Walewska-Zielecka B, et al. **Przegl Epidemiol** 1996;50(4):353-63 (Eng. Abstr.) **(Pol)**

[Viral hepatitis and alcohol: a synergistic relationship] Kershenobich D. **Rev Gastroenterol Mex** 1995 Oct-Dec; 60(4 Suppl 2):S56 **(Spa)**

GENETICS

Correlation between serum HCV RNA and aminotransferase levels in patients with chronic HCV infection. Ghany MG, et al. **Dig Dis Sci** 1996 Nov;41(11):2213-8

Relationship between viral genotype and viral load in patients with chronic hepatitis C. Garcia F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):884-7

Hepatitis C virus genome complexity correlates with response to interferon therapy: a study in French patients with chronic hepatitis C. Le Guen B, et al. **Hepatology** 1997 May;25(5):1250–4

Restriction of V beta gene usage of liver-derived lymphocytes in chronic hepatitis B and C. Pham BN, et al. **Hum Immunol** 1996 Aug;49(1):56–63

Distribution of hepatitis C virus genotypes in German patients with chronic hepatitis C: correlation with clinical and virological parameters. Berg T, et al. **J Hepatol** 1997 Mar;26(3):484–91

MHC class II genes influence the susceptibility to chronic active hepatitis C. Höhler T, et al. **J Hepatol** 1997 Aug; 27(2):259–64

Hepatitis GBV-C sequences in patients infected with HCV contaminated anti-D immunoglobulin and among i.v. drug users in Germany. Schreier E, et al. **J Hepatol** 1996 Sep; 25(3):385–9

Identification of hepatitis B virus integration in hepatitis C virus–infected hepatocellular carcinoma tissues. Urashima T, et al. **J Hepatol** 1997 Apr;26(4):771–8

Sequence analysis of hypervariable region of hepatitis C virus (HCV) associated with immune complex in patients with chronic HCV infection. Aiyama T, et al. **J Infect Dis** 1996 Dec;174(6):1316–20

Distribution of infecting hepatitis C virus genotypes in end-stage liver disease patients at a large American transplantation center. Vargas HE, et al. **J Infect Dis** 1997 Feb;175(2):448–50

Hepatitis C virus genotypes in French haemophiliacs: kinetics and reappraisal of mixed infections. Tuveri R, et al. **J Med Virol** 1997 Jan;51(1):36–41

Genotypic variation, clinical and histological characteristics of chronic hepatitis C detected at blood donor screening. Bird GL, et al. **J Viral Hepat** 1995;2(5):261–5

Longitudinal genotype analysis and quantification of hepatitis C virus in haemophilic patients receiving interferon-alpha therapy. Devereux H, et al. **J Viral Hepat** 1996 Jan; 3(1):43–8

Clinical relevance of hepatitis C virus quasispecies. Enomoto N, et al. **J Viral Hepat** 1995;2(6):267–72 (27 ref.)

Virus and host factors are both important determinants of response to interferon treatment among patients with chronic hepatitis C. Lin R, et al. **J Viral Hepat** 1996 Mar; 3(2):85–96

Host genetic factors influencing the outcome of hepatitis. Thursz MR. **J Viral Hepat** 1997 Jul;4(4):215–20 (34 ref.)

A DNA hybridization method for typing hepatitis C virus genotype 2c. Biasin MR, et al. **J Virol Methods** 1997 May; 65(2):307–15

The genotypes of hepatitis C virus in patients with chronic hepatitis C virus infection in southern Taiwan. Yu ML, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Nov; 12(11):605–12

Demonstration and distribution of HCV RNA sequences by in situ hybridization and HCV-related proteins by immunohistochemistry in the liver tissue of patients with chronic HCV infection. Sansonno D, et al. **Pathobiology** 1995;63(5):239–48

Hepatitis C viral infection in thalassemic children: clinical and molecular studies. Ni YH, et al. **Pediatr Res** 1996 Feb; 39(2):323–8

Prevalence of hepatitis C genotypes among patients with chronic hepatitis C in Norway. Construct Group. Bell H, et al. **Scand J Infect Dis** 1996;28(4):357–9

Relationship between hepatitis C genotype and severity of recurrent hepatitis C after liver transplantation. Gordon FD, et al. **Transplantation** 1997 May 27;63(10):1419–23

Circulating hepatitis C virus genotypes in Spain. The Hepatitis/HIV Spanish Study Group [see comments] Soriano V, et al. **Vox Sang** 1996;70(3):180–1. Comment in: Vox Sang 1997;72(1):63–4.

HISTORY

Hepatitis C virus: a historical perspective. Sherlock S. **Dig Dis Sci** 1996 Dec;41(12 Suppl):3S–5S

[From non-A non-B hepatitis to hepatitis C] Couroucé AM. **Transfus Clin Biol** 1997;4(3):287–90 (32 ref.) (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Confirmatory strategy of hepatitis C serology based on two screening assays in a diagnostic setting. Goubau P, et al. **Acta Clin Belg** 1997;52(1):31–5

Clinical importance of assessment of anti-HCV IgM antibodies in chronic hepatitis C. Stránský J, et al. **Acta Virol** 1996 Apr;40(2):61–5

Both immunogenetic factors and HCV genotype can influence the outcome of chronic HCV infection [letter] Zavaglia C, et al. **Am J Gastroenterol** 1997 Apr;92(4):725–6

Antibody level after hepatitis B vaccination in hemodialysis patients: influence of hepatitis C virus infection. Navarro JF, et al. **Am J Nephrol** 1996;16(2):95–7

Lymphocyte and macrophage phenotypes in chronic hepatitis C infection. Correlation with disease activity. Khakoo SI, et al. **Am J Pathol** 1997 Mar;150(3):963–70

Rheumatoid factor in the serum of hepatitis C virus–infected patients: an increase in the titre during cold storage. Ueda K, et al. **Ann Clin Biochem** 1996 Sep;33 (Pt 5):438–42

Antiphospholipid antibodies in patients with chronic hepatitis C virus infection or alcoholic liver disease. Preliminary results. Biron C, et al. **Ann Med Interne (Paris)** 1996 Sep; 147 Suppl 1:48–9

Immunohistochemistry of minor salivary gland biopsy specimens from patients with Sjögren's syndrome with and without hepatitis C virus infection. Coll J, et al. **Ann Rheum Dis** 1997 Jun;56(6):390–2

Does hepatitis B virus or hepatitis C virus infection influence CD4 count in HIV-positive individuals? Smiatacz T, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):335–43

Identification of HCV core mimotopes: improved methods for the selection and use of disease-related phage-displayed peptides. Tafi R, et al. **Biol Chem** 1997 Jun;378(6):495–502

High prevalence of autoimmune phenomena in hepatitis C virus antibody positive patients with lymphoproliferative and connective tissue disorders. Pivetti S, et al. **Br J Haematol** 1996 Oct;95(1):204–11

Leucocytoclastic vasculitis associated with hepatitis C virus antibodies. Manna R, et al. **Br J Rheumatol** 1997 Jan; 36(1):124–5

Impairment of natural killer (NK) cytotoxic activity in hepatitis C virus (HCV) infection. Corado J, et al. **Clin Exp Immunol** 1997 Sep;109(3):451–7

Naive and memory T cell infiltrates in chronic hepatitis C: phenotypic changes with interferon treatment. Imada K, et al. **Clin Exp Immunol** 1997 Jul;109(1):59–66

Serum levels of IL-10, IL-15 and soluble tumour necrosis factor-alpha (TNF-alpha) receptors in type C chronic liver disease. Kakumu S, et al. **Clin Exp Immunol** 1997 Sep; 109(3):458–63

Production of interleukins 10 and 12 by peripheral blood mononuclear cells (PBMC) in chronic hepatitis C virus (HCV) infection. Kakumu S, et al. **Clin Exp Immunol** 1997 Apr;108(1):138–43

Study of the B cell response to cytochrome P450IID6 in sera from chronic hepatitis C patients. Parez N, et al. **Clin Exp Immunol** 1996 Nov;106(2):336–43

A new approach to cytochrome CYP2D6 antibody detection in autoimmune hepatitis type-2 (AIH-2) and chronic hepatitis C virus (HCV) infection: a sensitive and quantitative radioligand assay. Yamamoto AM, et al. **Clin Exp Immunol** 1997 Jun;108(3):396–400

A critical evaluation of hepatitis C testing of cadaveric corneal donors [see comments] Laycock KA, et al. **Cornea** 1997 Mar;16(2):146–50. Comment in: Cornea 1997 Mar;16(2):123–4.

Antibodies to GAD in chronic hepatitis C patients [letter] Hiéronimus S, et al. **Diabetes Care** 1997 Jun;20(6):1044

Prevalence of antibodies to hepatitis C virus in drug-dependent patients in Jeddah, Saudi Arabia. Njoh J, et al. **East Afr Med J** 1997 Feb;74(2):89–91

Peripancreatic lymphoadenopathy and extrahepatic immunological manifestations in chronic hepatitis C. Neri S, et al. **Eur J Clin Invest** 1996 Aug;26(8):665–7

Immunochemical and biomolecular studies of circulating immune complexes isolated from patients with acute and chronic hepatitis C virus infection. Sansonno D, et al. **Eur J Clin Invest** 1996 Jun;26(6):465–75

In-situ immunophenotyping study of hepatic-infiltrating cytotoxic cells in chronic active hepatitis C. Fiore G, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):491–6

Pre-treatment levels of anti-HCV core IgM antibodies are closely associated with response to alpha interferon therapy in chronic hepatitis C patients. Tabone M, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):287–91

Antigen-processing polymorphisms in chronic hepatitis C infection. Höhler T, et al. **Exp Clin Immunogenet** 1996; 13(1):7–11

Hepatitis C and autoimmunity [clinical conference] Wrobleski C, et al. **Gastroenterologist** 1996 Sep;4(3):211–5

Different cytokine profiles of intraphepatic T cells in chronic hepatitis B and hepatitis C virus infections. Bertoletti A, et al. **Gastroenterology** 1997 Jan;112(1):193–9

A comparison of the prevalence of autoantibodies in individuals with chronic hepatitis C and those with autoimmune hepatitis: the role of interferon in the development of autoimmune diseases. Bayraktar Y, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):417–25

Detection of hepatitis C virus RNA in circulating immune complexes by RT-PCR. Morita T, et al. **Hepatogastroenterology** 1996 May-Jun;43(9):582–5

Hypervariable region sequence in cryoglobulin-associated hepatitis C virus in sera of patients with chronic hepatitis C: relationship to antibody response against hypervariable region genome. Aiyama T, et al. **Hepatology** 1996 Dec; 24(6):1346–50

Serum autoantibodies in chronic hepatitis C: comparison with autoimmune hepatitis and impact on the disease profile. Cassani F, et al. **Hepatology** 1997 Sep;26(3):561–6

HLA class II genes in chronic hepatitis C virus–infection and associated immunological disorders. Congia M, et al. **Hepatology** 1996 Dec;24(6):1338–41

Cytotoxic T lymphocyte response and viral load in hepatitis C virus infection. Hiroishi K, et al. **Hepatology** 1997 Mar; 25(3):705–12

T- and B-cell responses to different hepatitis C virus antigens in patients with chronic hepatitis C infection and in healthy anti-hepatitis C virus—positive blood donors without viremia [see comments] Lechmann M, et al. **Hepatology** 1996 Oct;24(4):790–5. Comment in: Hepatology 1996 Oct;24(4):961–3.

B7/BB-1 expression and hepatitis activity in liver tissues of patients with chronic hepatitis C. Mochizuki K, et al. **Hepatology** 1997 Mar;25(3):713–8

Acute sporadic non-A, non-B, non-C, non-D, non-E hepatitis. Rochling FA, et al. **Hepatology** 1997 Feb; 25(2):478–83

Liver injury associated with hepatitis C infection: is it the virus or is it the host? Thiele DL. **Hepatology** 1997 Jul; 26(1):238–9

Evidence that the HLA DQA1*03 allele confers protection from chronic HCV-infection in Northern European Caucasoids. Tibbs C, et al. **Hepatology** 1996 Dec; 24(6):1342–5

Detection of type 2-like T-helper cells in hepatitis C virus infection: implications for hepatitis C virus chronicity. Tsai SL, et al. **Hepatology** 1997 Feb;25(2):449–58

Early antibody response against hypervariable region 1 is associated with acute self-limiting infections of hepatitis C virus. Zibert A, et al. **Hepatology** 1997 May;25(5):1245–9

Restriction of V beta gene usage of liver-derived lymphocytes in chronic hepatitis B and C. Pham BN, et al. **Hum Immunol** 1996 Aug;49(1):56–63

Variations of serum IgG subclass levels in hepatitis C virus infection during interferon-alpha therapy. Musset L, et al. **Immunol Lett** 1997 Jan;55(1):41–5

Immunological effects following administration of interferon-alpha in patients with chronic hepatitis C virus (cHCV) infection. Jirillo E, et al. **Immunopharmacol Immunotoxicol** 1996 Aug;18(3):355–74

Comparative evaluation of serology and polymerase chain reaction for hepatitis C viral infection in liver diseases [letter] Kar P, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):118–9

T cell receptor V beta repertoire subsets in psoriasis vulgaris and vitiligo [letter] Yamamoto T, et al. **Int J Dermatol** 1996 Feb;35(2):151

Anti-liver/kidney microsome-1-positive chronic hepatitis C with type I cryoglobulinemia responding to interferon [see comments] Abe K, et al. **Intern Med** 1995 Nov; 34(11):1114–9. Comment in: Intern Med 1995 Nov;34(11):1043–4.

Antibodies to liver/kidney microsome type 1 positive chronic hepatitis C and cryoglobulinemia [editorial; comment] Nishioka M. **Intern Med** 1995 Nov;34(11):1043–4. Comment on: Intern Med 1995 Nov;34(11):1114–9.

Influence of HIV disease on serum anti-HCV antibody titers: a study of intravenous drug users [letter] Sorbi D, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):295–6

Immunohistochemical characterization of hepatic lymphocytes in acute hepatitis A, B, and C. Hashimoti E, et al. **J Clin Gastroenterol** 1996 Oct;23(3):199–202

The immune reactivity role of HCV-induced liver infiltrating lymphocytes in hepatocellular damage. Jin Y, et al. **J Clin Immunol** 1997 Mar;17(2):140–53

Transplant-associated autoimmune mechanisms in human hepatitis C virus infection. Zucker K, et al. **J Clin Immunol** 1996 Jan;16(1):60–70

Cytotoxic T cells and viral hepatitis. Chisari FV. **J Clin Invest** 1997 Apr 1;99(7):1472–7 (50 ref.)

Quantitative analysis of the peripheral blood cytotoxic T lymphocyte response in patients with chronic hepatitis C virus infection. Rehermann B, et al. **J Clin Invest** 1996 Sep 15;98(6):1432–40

Diverse patterns of recognition of hepatitis C virus core and nonstructural antigens by antibodies present in Egyptian cancer patients and blood donors. Attia MA, et al. **J Clin Microbiol** 1996 Nov;34(11):2665–9

HCV activity in Calcutta—a serological study. Neogi DK, et al. **J Commun Dis** 1997 Mar;29(1):1–6

HLA B44-restricted cytotoxic T lymphocyte responses to the peptides of HCV nucleoprotein residues 81–100 in patients with chronic hepatitis C. Kita H, et al. **J Gastroenterol** 1995 Dec;30(6):809–12

Antibody response to E2/NS1 hepatitis C virus protein in patients with acute hepatitis C. Kobayashi M, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):73–6

Lymphocyte proliferative responses to recombinant hepatitis C virus antigens in patients with chronic hepatitis C. Mori H, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):697–704

Quantitative liver parameters of HCV infection: relation to HCV genotypes, viremia and response to interferon treatment. Ballardini G, et al. **J Hepatol** 1997 Apr; 26(4):779–86

Non-organ specific autoantibodies in children with chronic hepatitis C. Bortolotti F, et al. **J Hepatol** 1996 Nov; 25(5):614–20

Anti-actin autoantibodies in patients with chronic hepatitis C [letter] Chazouilleres O, et al. **J Hepatol** 1996 Apr; 24(4):513

Diversity of antinuclear antibody responses in hepatocellular carcinoma. Covini G, et al. **J Hepatol** 1997 Jun; 26(6):1255–65

DR human leukocyte antigens and disease severity in chronic hepatitis C. Czaja AJ, et al. **J Hepatol** 1996 Jun; 24(6):666–73

Hepatitis C infection and autoimmunity. Eddleston AL. **J Hepatol** 1996;24(2 Suppl):55–60 (36 ref.)

Autoimmune hepatitis type 2 and hepatitis C virus infection: study of HLA antigens. Jurado A, et al. **J Hepatol** 1997 May;26(5):983–91

Analysis of T-cell receptor Vbeta repertoire in liver-infiltrating lymphocytes in chronic hepatitis C. Kashii Y, et al. **J Hepatol** 1997 Mar;26(3):462–70

HEPATITIS C

The quantitative humoral immune response to the hepatitis C virus is correlated with disease activity and response to interferon-alpha. Löhr HF, et al. **J Hepatol** 1996 Sep; 25(3):292–300

Humoral immunoreactivity to HCV core antigen in patients with chronic hepatitis C [letter] Marousis CG, et al. **J Hepatol** 1997 Feb;26(2):446–7

Quantitative assessment of hepatitis C virus RNA and IgM antibodies to hepatitis C core in chronic hepatitis C. Martinelli AL, et al. **J Hepatol** 1996 Jan;24(1):21–6

Is there a role for immune responses in the pathogenesis of hepatitis C? [see comments] Mondelli MU. **J Hepatol** 1996 Aug;25(2):232–8 (52 ref.). Comment in: J Hepatol 1997 May;26(5):1157–8.

Frequency and significance of antibodies to P450IID6 protein in Japanese patients with chronic hepatitis C. Nishioka M, et al. **J Hepatol** 1997 May;26(5):992–1000

Significance of IgM anti-HCV core level in chronic hepatitis C. Papatheodoridis GV, et al. **J Hepatol** 1997 Jul; 27(1):36–41

Production of interleukin-2 in response to synthetic peptides from hepatitis C virus E1 protein in patients with chronic hepatitis C: relationship with the response to interferon treatment. Sarobe P, et al. **J Hepatol** 1996 Jul;25(1):1–9

Immune responses in hepatitis C virus infection. Spengler U, et al. **J Hepatol** 1996;24(2 Suppl):20–5 (41 ref.)

The presence of rheumatoid factor in sera from anti-HCV positive blood donors interferes with the detection of HCV-specific IgM. Trent HCV Study Group. Stevenson DL, et al. **J Hepatol** 1996 Nov;25(5):621–6

Platelet-associated immunoglobulin G, thrombocytopenia and response to interferon treatment in chronic hepatitis C [letter; comment] Taliani G, et al. **J Hepatol** 1996 Dec; 25(6):999. Comment on: J Hepatol 1996 Feb;24(2):135–40.

Present status of autoimmune hepatitis in Japan—correlating the characteristics with international criteria in an area with a high rate of HCV infection. Japanese National Study Group of Autoimmune Hepatitis. Toda G, et al. **J Hepatol** 1997 Jun;26(6):1207–12

Deficiency of antibody response to hypervariable region of hepatitis C virus in patients with chronic hepatitis C. Yoshioka K, et al. **J Hepatol** 1996 Jun;24(6):649–57

HLA typing in chronic type B, D and C hepatitis. Zavaglia C, et al. **J Hepatol** 1996 Jun;24(6):658–65

Immunogenetic factors and disease severity in chronic hepatitis C [letter] Zavaglia C, et al. **J Hepatol** 1997 Jul; 27(1):248–9

Perforin, Fas/Fas ligand, and TNF-alpha pathways as specific and bystander killing mechanisms of hepatitis C virus-specific human CTL. Ando K, et al. **J Immunol** 1997 Jun 1;158(11):5283–91

Enhancement of cellular and humoral immune responses to hepatitis C virus core protein using DNA-based vaccines augmented with cytokine-expressing plasmids. Geissler M, et al. **J Immunol** 1997 Feb 1;158(3):1231–7

Nonrheumatoid IgM in human hepatitis C virus-associated type II cryoglobulinemia recognize mimotopes of the CD4-like LAG-3 protein. Mecchia M, et al. **J Immunol** 1996 Oct 15;157(8):3727–36

Expression of IFN-inducible protein-10 in chronic hepatitis. Narumi S, et al. **J Immunol** 1997 Jun 1;158(11):5536–44

The role of hepatitis C virus-specific cytotoxic T lymphocytes in chronic hepatitis C. Nelson DR, et al. **J Immunol** 1997 Feb 1;158(3):1473–81

CD30 induction and cytokine profiles in hepatitis C virus core-specific peripheral blood T lymphocytes. Woitas RP, et al. **J Immunol** 1997 Jul 15;159(2):1012–8

Sequence analysis of hypervariable region of hepatitis C virus (HCV) associated with immune complex in patients with chronic HCV infection. Aiyama T, et al. **J Infect Dis** 1996 Dec;174(6):1316–20

Patients infected with the same hepatitis C virus strain display different kinetics of the isolate-specific antibody response. Allander T, et al. **J Infect Dis** 1997 Jan;175(1):26–31

Semiquantitative analysis of intrahepatic cytokine mRNAs in chronic hepatitis C. Dumoulin FL, et al. **J Infect Dis** 1997 Mar;175(3):681–5

Decreased phorbol myristate acetate-induced release of tumor necrosis factor-alpha and interleukin-1 beta from peripheral blood monocytes of patients chronically infected with hepatitis C virus. Mendoza EC, et al. **J Infect Dis** 1996 Oct;174(4):842–4

Variation of hepatitis C virus hypervariable region 1 in immunocompromised patients. Odeberg J, et al. **J Infect Dis** 1997 Apr;175(4):938–43

Humoral immune response to the hypervariable region of hepatitis C virus differs between genotypes 1b and 2a. Yoshioka K, et al. **J Infect Dis** 1997 Mar;175(3):505–10

HLA DRB1 and DQB1 alleles and haplotypes influencing the progression of hepatitis C. Aikawa T, et al. **J Med Virol** 1996 Aug;49(4):274–8

Antibody responses to the hepatitis C virus E2 protein: relationship to viraemia and prevalence in anti-HCV seronegative subjects. Cerino A, et al. **J Med Virol** 1997 Jan;51(1):1–5

Characterisation of a panel of monoclonal antibodies raised against recombinant HCV core protein. Ferns RB, et al. **J Med Virol** 1996 Nov;50(3):221–9

Antibody responses to hepatitis C envelope proteins in patients with acute or chronic hepatitis C. Fournillier-Jacob A, et al. **J Med Virol** 1996 Oct; 50(2):159–67

Reactivity of synthetic peptides representing selected sections of hepatitis C virus core and envelope proteins with a panel of hepatitis C virus-seropositive human plasma. Jackson P, et al. **J Med Virol** 1997 Jan;51(1):67–79

Low expression of erythrocyte complement receptor type 1 in chronic hepatitis C patients. Kanto T, et al. **J Med Virol** 1996 Oct;50(2):126–34

Absence of extensive genetic heterogeneity of hepatitis C virus in antibody-negative chronic hepatitis C. Kao JH, et al. **J Med Virol** 1996 Jun;49(2):87–90

Safety and immunogenicity of inactivated hepatitis A vaccine in patients with chronic liver disease. Lee SD, et al. **J Med Virol** 1997 Jun;52(2):215–8

Nucleotide sequences of the hepatitis C virus core region in patients without anti-core antibody. Nagasaka A, et al. **J Med Virol** 1996 Jun;49(2):91–4

Serological and molecular analysis of hepatitis C virus envelope regions 1 and 2 during acute and chronic infections in chimpanzees. van Doorn LJ, et al. **J Med Virol** 1997 Aug;52(4):441–50

The role of hepatitis C virus specific CD4+ T lymphocytes in acute and chronic hepatitis C. Diepolder HM, et al. **J Mol Med** 1996 Oct;74(10):583–8 (54 ref.)

Antibodies to epithelial components in oral lichen planus (OLP) associated with hepatitis C virus (HCV) infection. Lodi G, et al. **J Oral Pathol Med** 1997 Jan;26(1):36–9

Detectable levels of IgM antibodies to hepatitis C virus core protein predict breakthrough in patients with chronic hepatitis C treated with interferon-alpha. Fracassetti O, et al. **J Viral Hepat** 1996 Sep;3(5):265–6

A high prevalence of antibodies to hepatitis C virus among commercial plasma donors from Western India. Jha J, et al. **J Viral Hepat** 1995;2(5):257–60

Lack of association between type of hepatitis C virus, serum load and severity of liver disease. Romeo R, et al. **J Viral Hepat** 1996 Jul;3(4):183–90

Hepatitis C virus infection in patients with clinically diagnosed alcoholic liver diseases. Sata M, et al. **J Viral Hepat** 1996 May;3(3):143–8

Autoimmunity in hepatitis C and D virus infection. Strassburg CP, et al. **J Viral Hepat** 1996 Mar;3(2):49–59 (97 ref.)

Higher elimination rate of hepatitis C virus among women. Yamakawa Y, et al. **J Viral Hepat** 1996 Nov;3(6):317–21

Immunodominant CD4+ T-cell epitope within nonstructural protein 3 in acute hepatitis C virus infection. Diepolder HM, et al. **J Virol** 1997 Aug;71(8):6011–9

Differential cytotoxic T-lymphocyte responsiveness to the hepatitis B and C viruses in chronically infected patients. Rehermann B, et al. **J Virol** 1996 Oct;70(10):7092–102

Epitope mapping of antibodies directed against hypervariable region 1 in acute self-limiting and chronic infections due to hepatitis C virus. Zibert A, et al. **J Virol** 1997 May; 71(5):4123–7

Analytical and laboratory evaluation of a new fully-automated third generation enzyme immunoassay for the detection of antibodies to the hepatitis C virus. Bonanni P, et al. **J Virol Methods** 1996 Dec;62(2):113–22

Lack of monomeric IgM anti-hepatitis C virus (HCV) core antibodies in patients with chronic HCV infection. Negro F, et al. **J Virol Methods** 1996 Jul;60(2):179–82

Overexpression and simple purification of a truncated, immunologically reactive GST-HCV core (1–123) fusion protein. Seong YR, et al. **J Virol Methods** 1996 May; 59(1–2):13–21

Seroprevalence of hepatitis B and C virus among professional blood donors--a single centre study of 135 donors in Karachi [letter] Ahmed A, et al. **JPMA J Pak Med Assoc** 1995 Nov;45(11):309

No significant influence of HLA determinants on susceptibility to hepatitis C virus infection in Caucasian patients with end-stage renal disease. Chen DF, et al. **Liver** 1996 Dec;16(6):384–9

Liver-infiltrating and circulating CD4+ T cells in chronic hepatitis C: immunodominant epitopes, HLA-restriction and functional significance. Löhr HF, et al. **Liver** 1996 Jun; 16(3):174–82

Murine humoral immune response against recombinant structural proteins of hepatitis C virus distinct from those of patients. Ahmed M, et al. **Microbiol Immunol** 1996; 40(2):169–76

Hepatitis C virus infection-associated markers in sera from blood donors in Surabaya, Indonesia. Darmadi S, et al. **Microbiol Immunol** 1996;40(5):401–5

Protection and defence mechanisms in HCV infection. Inchauspé G. **Nephrol Dial Transplant** 1996;11 Suppl 4:6–8 (21 ref.)

Hepatitis C virus seropositivity in glomerulonephritis patients [letter] Roccatello D, et al. **Nephron** 1997;76(3):355–6

Natural recovery from acute hepatitis C virus infection by agammaglobulinemic twin children. Adams G, et al. **Pediatr Infect Dis J** 1997 May;16(5):533–4

Cytotoxic T lymphocyte responses in hepatitis C virus infection. Imawari M, et al. **Princess Takamatsu Symp** 1995; 25:221–5

Association of cytotoxic T lymphocyte (CTL) escape mutations with persistent hepatitis C virus (HCV) infection. Weiner AJ, et al. **Princess Takamatsu Symp** 1995;25:227–35 (35 ref.)

Prevention of hepatitis C virus infection in chimpanzees by hyperimmune serum against the hypervariable region 1 of the envelope 2 protein. Farci P, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15394–9

Hepatitis C virus infection. Biological and immunological features. Fiore G, et al. **Recenti Prog Med** 1996 Jun; 87(6):301–7 (37 ref.)

Role of endogenous interferon in hepatitis C virus (HCV) infection and in coinfection by HIV and HCV. Cribier B, et al. **Res Virol** 1996 Sep-Oct;147(5):263–6

Autoantibodies before, during and after administration of recombinant interferon-alpha for chronic viral hepatitis. Lopes EP, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep-Oct;37(5):455–60 (23 ref.)

Absence of LKM-1 antibody reactivity in autoimmune and hepatitis-C-related chronic liver disease in Sweden. Swedish Internal Medicine Liver club. Lindgren S, et al. **Scand J Gastroenterol** 1997 Feb;32(2):175–8

Hepatitis C virus infection and autoimmunity. McMurray RW, et al. **Semin Arthritis Rheum** 1997 Feb;26(4):689–701 (125 ref.)

Seroprevalence of hepatitis B and C viral markers in patients with primary hepatocellular carcinoma in Singapore. Khin LW, et al. **Singapore Med J** 1996 Oct;37(5):492–6

Immune responses throughout hepatitis C virus (HCV) infection: HCV from the immune system point of view. Abrignani S. **Springer Semin Immunopathol** 1997; 19(1):47–55 (43 ref.)

Immunopathology of hepatitis C. Chang KM, et al. **Springer Semin Immunopathol** 1997;19(1):57–68 (79 ref.)

The quasispecies of hepatitis C virus and the host immune response. Farci P, et al. **Springer Semin Immunopathol** 1997; 19(1):5–26 (147 ref.)

Characteristics of the intrahepatic cytotoxic T lymphocyte response in chronic hepatitis C virus infection. Koziel MJ, et al. **Springer Semin Immunopathol** 1997;19(1):69–83 (90 ref.)

Hepatic lymphoid aggregates in chronic hepatitis C and mixed cryoglobulinemia. Monteverde A, et al. **Springer Semin Immunopathol** 1997;19(1):99–110

Comparative features of hepatitis C virus infection in humans and chimpanzees. Walker CM. **Springer Semin Immunopathol** 1997;19(1):85–98

Failure to find an association between hepatitis C virus and thyroid autoimmunity. Metcalfe RA, et al. **Thyroid** 1997 Jun;7(3):421–4

Possible association between HLA antigens and the response to interferon in Japanese patients with chronic hepatitis C. Miyaguchi S, et al. **Tissue Antigens** 1997 Jun; 49(6):605–11

Immunologic events during the incubation period of hepatitis C virus infection: the role of antibodies to E2 glycoprotein. Multicentre Hemodialysis Cohort Study on Viral Hepatitis. Psichogiou M, et al. **Transfusion** 1997 Aug;37(8):858–62

Clear evidence of the existence of healthy carriers of hepatitis C virus among renal transplant recipients [letter] Haem J, et al. **Transplantation** 1996 Sep 15;62(5):699–700

Antibody to the host cellular gene-derived epitope GOR-1 in liver transplant recipients with hepatitis C virus infection. Reiser M, et al. **Transplantation** 1997 Feb 27;63(4):609–12

Hepatitis B vaccine in hemodialysis patients with hepatitis C viral infection. Cheng CH, et al. **Vaccine** 1997 Aug-Sep; 15(12–13):1353–7

High efficiency prokaryotic expression and purification of a portion of the hepatitis C core protein and analysis of the immune response to recombinant protein in BALB/c mice. Hitomi Y, et al. **Viral Immunol** 1995;8(2):109–19

Evaluation of third-generation hepatitis C antibody assay in chronic hepatitis C and chronic non-B, non-C hepatitis. Kao JH, et al. **Viral Immunol** 1995;8(3):135–9

Characterization of the antibody reactivity to synthetic peptides from different parts of the hepatitis C virus genome. Pujol FH, et al. **Viral Immunol** 1996;9(2):89–96

Hepatitis C virus genomic variability in untreated and immunosuppressed patients. Lawal Z, et al. **Virology** 1997 Feb 3;228(1):107–11

A hyperimmune serum against a synthetic peptide corresponding to the hypervariable region 1 of hepatitis C virus can prevent viral infection in cell cultures. Shimizu YK, et al. **Virology** 1996 Sep 15;223(2):409–12

Hepatitis C. Seroprevalence of hepatitis C virus (HCV) in a population sample. **Wkly Epidemiol Rec** 1996 Nov 15; 71(46):346–9 **(Eng, Fre)**

[Detection of hepatitis c in blood donors in Niamey] Mamadou S, et al. **Bull Soc Pathol Exot** 1997;90(2):74 (Eng. Abstr.) **(Fre)**

[Does a healthy carrier of hepatitis C exist?] Payen JL, et al. **Gastroenterol Clin Biol** 1996;20(6–7):531–4 (37 ref.) **(Fre)**

[Research of type 1, 2 and 3 hepatitis C virus specific antibodies in relation to the viral genotype in chronically infected patients] Castelain S, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):41–7 (Eng. Abstr.) **(Fre)**

[Mixed cryoglobulins and autoimmunity in hepatitis C] Tridon A, et al. **Pathol Biol (Paris)** 1997 Apr;45(4):291–7 (Eng. Abstr.) **(Fre)**

[Occurrence and significance of autoantibodies in the course of interferon therapy of chronic hepatitis C] Heller J, et al. **Dtsch Med Wochenschr** 1996 Sep 27;121(39):1179–83 (Eng. Abstr.) **(Ger)**

[Hepatitis C virus and autoimmune hepatitis: coincidence or causal relationship?] Dienes HP, et al. **Verh Dtsch Ges Pathol** 1996;80:178–80 (Eng. Abstr.) **(Ger)**

[Autoimmune phenomena and musculoskeletal manifestations

in hepatitis C viral infection] Bartal C, et al. **Harefuah** 1997 May 1;132(9):639–42 (41 ref.) **(Heb)**

[Chronic hepatitis C: virologic and immunologic aspects and questions of therapy] Pár A. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1465–76 (90 ref.) (Eng. Abstr.) **(Hun)**

[The peripheral blood lymphocyte subpopulations in chronic anti–HCV–positive liver disease: their significance and correlation with liver function] Rocco P, et al. **Minerva Gastroenterol Dietol** 1996 Jun;42(2):51–5 (Eng. Abstr.) **(Ita)**

[Liver autoreaction in hepatitis virus infection] Senya M, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec; 19(6):614–7 (8 ref.) **(Jpn)**

[The influence of anti–interferon–alpha 2a antibodies in initial daily four–week interferon–alpha 2a therapy for chronic hepatitis C] Habu D, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):319–27 (Eng. Abstr.) **(Jpn)**

[The prevalence of antibodies to the hepatitis C virus (HCV) in patients with post–transfusional hepatitis and blood donors in Moldova] Iancu L, et al. **Bacteriol Virusol Parazitol Epidemiol** 1993 Jan–Jun; 38(1–2):76–80 **(Rum)**

[Study of HLA–II antigens in chronic hepatitis C and B and in acute hepatitis B] Cotrina M, et al. **Gastroenterol Hepatol** 1997 Mar;20(3):115–8 (Eng. Abstr.) **(Spa)**

[Viral infection and rheumatic diseases] Handzha IM, et al. **Lik Sprava** 1997 Jan–Feb;(1):37–9 (Eng. Abstr.) **(Ukr)**

METABOLISM

Hepatic glutathione deficiency in chronic hepatitis C: quantitative evaluation in patients who are HIV positive and HIV negative and correlations with plasmatic and lymphocytic concentrations and with the activity of the liver disease. Barbaro G, et al. **Am J Gastroenterol** 1996 Dec;91(12):2569–73

Hepatitis C virus and human immunodeficiency virus infection can alter porphyrin metabolism and lead to porphyria cutanea tarda [editorial; comment] Blauvelt A. **Arch Dermatol** 1996 Dec;132(12):1503–4. Comment on: Arch Dermatol 1996 Dec;132(12):1443–7. Comment on: Arch Dermatol 1996 Dec;132(12):1448–52.

Liver iron influences the response to interferon alpha therapy in chronic hepatitis C. Fargion S, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):497–503

Liver iron concentration in chronic viral hepatitis: a study of 98 patients. Piperno A, et al. **Eur J Gastroenterol Hepatol** 1995 Dec;7(12):1203–8

Association between reactive oxygen species and disease activity in chronic hepatitis C. De Maria N, et al. **Free Radic Biol Med** 1996;21(3):291–5

Bystander T–cell clones in chronic hepatitis C [letter] Woitas KR, et al. **Gastroenterology** 1997 Sep;113(3):1050–1

Iron and hepatitis C [comment] Bacon BR. **Gut** 1997 Jul; 41(1):127–8. Comment on: Gut 1997 Jul;41(1):115–20.

Hepatic expression of inducible nitric oxide synthase transcripts in chronic hepatitis C virus infection: relation to hepatic viral load and liver injury. Mihm S, et al. **Hepatology** 1997 Aug;26(2):451–8

Progressive liver injury in chronic hepatitis C infection correlates with increased intrahepatic expression of Th1–associated cytokines. Napoli J, et al. **Hepatology** 1996 Oct;24(4):759–65

Hepatitis C virus–related proteins in kidney tissue from hepatitis C virus–infected patients with cryoglobulinemic membranoproliferative glomerulonephritis. Sansonno D, et al. **Hepatology** 1997 May;25(5):1237–44

In situ detection of lipid peroxidation in chronic hepatitis C: correlation with pathological features. Paradis V, et al. **J Clin Pathol** 1997 May;50(5):401–6

Expression of interferon–alpha receptor mRNA in the liver in chronic liver diseases associated with hepatitis C virus: relation to effectiveness of interferon therapy. Fukuda R, et al. **J Gastroenterol** 1996 Dec;31(6):806–11

Threshold effect of liver iron content on hepatic inflammation and fibrosis in hepatitis B and C. Beinker NK, et al. **J Hepatol** 1996 Nov;25(5):633–8

Interleukin–1–producing plasma cells in close contact with hepatocytes in patients with chronic active hepatitis. Hassan G, et al. **J Hepatol** 1997 Jul;27(1):6–17

Evidence for a deficiency of interferon response in mononuclear cells from hepatitis C viremic patients. Podevin P, et al. **J Hepatol** 1997 Aug;27(2):265–71

Intrahepatic expression of pro–inflammatory cytokine mRNAs and interferon efficacy in chronic hepatitis C. Fukuda R, et al. **Liver** 1996 Dec;16(6):390–9

Iron stores, response to alpha–interferon therapy, and effects of iron depletion in chronic hepatitis C. Piperno A, et al. **Liver** 1996 Aug;16(4):248–54

Porphyrin metabolism in hepatitis C infection. O'Reilly FM, et al. **Photodermatol Photoimmunol Photomed** 1996 Feb; 12(1):31–3

Response of chronic hepatitis C to interferon–alpha treatment and relationship with iron metabolism. Martín–Vivaldi R, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):523–30 **(Eng, Spa)**

MICROBIOLOGY

The influence of age on the prevalence of hepatitis C virus subtypes 1a and 1b. Feucht HH, et al. **J Infect Dis** 1997 Mar;175(3):685–8

Hepatitis C virus genotypes in blood donors and patients with chronic hepatitis C. Brojer E, et al. **Vox Sang** 1996; 71(1):51–4

MORTALITY

Morbidity and mortality of recurrent hepatitis C infection after orthotopic liver transplantation. Vierling JM, et al. **J Viral Hepat** 1997;4 Suppl 1:117–24 (53 ref.)

[Hepatitis C viruses antibodies. Prevalence and their influence on morbidity–mortality in renal transplant recipients, in the last two years of the kidney transplantation program in La Plata city] Curciarello JO, et al. **Acta Gastroenterol Latinoam** 1996;26(2):79–83 (Eng. Abstr.) **(Spa)**

PATHOLOGY

Serum aminotransferase levels and histological disease in chronic hepatitis C. Michielsen PP, et al. **Acta Gastroenterol Belg** 1997 Jan–Mar;60(1):11–4

Fatal fat embolism in acute hepatic necrosis with associated fatty liver. Schulz F, et al. **Am J Forensic Med Pathol** 1996 Sep;17(3):264–8

Hepatic iron stainings in chronic hepatitis C patients with low HCV RNA levels: a predictive marker for IFN therapy. Akiyoshi F, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1463–6

Influence of hepatitis C virus genotypes and HIV infection on histological severity of chronic hepatitis C. The Hepatitis/HIV Spanish Study Group. García–Samaniego J, et al. **Am J Gastroenterol** 1997 Jul;92(7):1130–4

Apoptosis induced by tumor necrosis factor–alpha in rat hepatocyte cell lines expressing hepatitis B virus. Guilhot S, et al. **Am J Pathol** 1996 Mar;148(3):801–14

Histopathological impacts of hepatitis virus infection in hemodialysis patients: should liver biopsy be performed before renal transplantation? Ozdoğan M, et al. **Artif Organs** 1997 May;21(5):355–8

Is methotrexate liver toxicity modest worldwide? [letter; comment] Rebora A. **Br J Dermatol** 1996 Dec; 135(6):1003–4. Comment on: Br J Dermatol 1995 Nov;133(5):774–8.

Investigation of chronic hepatitis C infection in individuals with haemophilia [letter] [see comments] Lee CA. **Br J Haematol** 1997 Feb;96(2):425–6. Comment in: Br J Haematol 1997 Jun;97(3):689–90. Comment in: Br J Haematol 1997 Jun;97(3):690–1.

The role for liver biopsy in haemophiliacs infected with the hepatitis C virus. Wong VS, et al. **Br J Haematol** 1997 May;97(2):343–7

Hepatocellular injury in hepatitis B and C virus infections. Fattelson MA. **Clin Lab Med** 1996 Jun;16(2):307–24 (110 ref.)

Absence of restricted T cell receptor V beta repertoire in skin lesions of a patient with both psoriasis vulgaris and lichen planus. Yamamoto T, et al. **Dermatology** 1996; 192(1):67–9

Assessment of liver histology in patients with hepatitis C and normal transaminase levels. Stanley AJ, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):869–72

Histopathologic impact of GB virus C infection on chronic hepatitis C. Bralet MP, et al. **Gastroenterology** 1997 Jan; 112(1):188–92

A pilot study of the effects of d–alpha–tocopherol on hepatic stellate cell activation in chronic hepatitis C. Houglum K, et al. **Gastroenterology** 1997 Oct;113(4):1069–73

Disease stage of chronic hepatitis C assessed by both peritoneoscopic and histologic findings and its relationship with response to interferon therapy. Ohkawa K, et al. **Gastrointest Endosc** 1997 Feb;45(2):168–75

Immunohistochemical evidence of immunopathogenetic mechanisms in chronic hepatitis C recurrence after liver transplantation. Asanza CG, et al. **Hepatology** 1997 Sep; 26(3):755–63

Histological findings in chronic hepatitis C with autoimmune features. Czaja AJ, et al. **Hepatology** 1997 Aug;26(2):459–66

Enlargement of perihepatic lymph nodes in relation to liver histology and viremia in patients with chronic hepatitis C. Dietrich CF, et al. **Hepatology** 1997 Aug;26(2):467–72

Pathology of chronic hepatitis C in children. Child Liver Study Group of Japan. Kage M, et al. **Hepatology** 1997 Sep;26(3):771–5

Analysis of histopathological manifestations of chronic hepatitis C virus infection with respect to virus genotype. Mihm S, et al. **Hepatology** 1997 Mar;25(3):735–9

The role of liver biopsy in hepatitis C. Perrillo RP. **Hepatology** 1997 Sep;26(3 Suppl 1):57S–61S (36 ref.)

Endotheliitis–like changes in chronic hepatitis C. Lory J, et al. **Histol Histopathol** 1997 Apr;12(2):359–66

Granulomas and hepatitis C. Goldin RD, et al. **Histopathology** 1996 Mar;28(3):265–7

Chronic lymphocytic sialoadenitis in HCV–related chronic liver disease: comparison of Sjögren's syndrome. Scott CA, et al. **Histopathology** 1997 Jan;30(1):41–8

An unusual pattern of hepatitis C virus infection in a liver allograft. Sebagh M, et al. **Histopathology** 1995 Aug; 27(2):190–2

Hepatitis C virus liver disease in women infected with contaminated anti–D immunoglobulin. Sheehan MM, et al. **Histopathology** 1997 Jun;30(6):512–7

Histological features predictive of liver fibrosis in chronic hepatitis C infection. Paradis V, et al. **J Clin Pathol** 1996 Dec;49(12):998–1004

Relationship between the intrahepatic expression of interferon–alpha receptor mRNA and the histological progress of hepatitis C virus–associated chronic liver diseases. Ishimura N, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):712–7

Infection of human hepatocyte cell lines with hepatitis C virus in vitro. Tagawa M, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):523–7

Serum hyaluronic acid reflects the effect of interferon treatment on hepatic fibrosis in patients with chronic hepatitis C. Yamada M, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):646–51

The effect of interferon on the liver in chronic hepatitis C: a quantitative evaluation of histology by meta–analysis. Cammà C, et al. **J Hepatol** 1997 Jun;26(6):1187–99

Histopathology of chronic hepatitis C in relation to epidemiological factors. Delladetsima JK, et al. **J Hepatol** 1996 Jan;24(1):27–32

Histopathologic findings in chronic hepatitis C. Fischer HP, et al. **J Hepatol** 1996;24(2 Suppl):35–42 (37 ref.)

Intra–observer and inter–observer variation in the histopathological assessment of chronic viral hepatitis. Goldin RD, et al. **J Hepatol** 1996 Nov;25(5):649–54

Comparison of clinico–pathological features in hepatitis B virus–associated hepatocellular carcinoma with or without hepatitis D virus superinfection. Huo TI, et al. **J Hepatol** 1996 Oct;25(4):439–44

Evidence for a deficiency of interferon response in mononuclear cells from hepatitis C viremic patients. Podevin P, et al. **J Hepatol** 1997 Aug;27(2):265–71

Hepatitis C virus infection of salivary gland epithelial cells. Lack of evidence. Taliani G, et al. **J Hepatol** 1997 Jun; 26(6):1200–6

Immunogenetic factors and disease severity in chronic hepatitis C [letter] Zavaglia C, et al. **J Hepatol** 1997 Jul; 27(1):248–9

A histopathological study of the effects of 6–month versus 12–month interferon alpha–2b therapy in chronic hepatitis C. Ziol M, et al. **J Hepatol** 1996 Dec;25(6):833–41

Hepatitis C virus: quantitation and distribution in liver. Terrault NA, et al. **J Med Virol** 1997 Mar;51(3):217–24

Age and platelet count: a simple index for predicting the presence of histological lesions in patients with antibodies to hepatitis C virus. METAVIR and CLINIVIR Cooperative Study Groups. Poynard T, et al. **J Viral Hepat** 1997 May;4(3):199–208

A morphological study of histological activity index (HAI) and scoring system in hepatitis–C. Mushtaq S, et al. **JPMA J Pak Med Assoc** 1997 Jun;47(6):162–5

The relationship of histology to genotype in chronic HCV infection. Booth JC, et al. **Liver** 1997 Jun;17(3):144–51

Hepatitis C virus serotypes and liver pathology. Guido M, et al. **Liver** 1996 Dec;16(6):353–7

Virological characterization and liver histology in HCV positive subjects with normal and elevated ALT levels. Rossini A, et al. **Liver** 1997 Jun;17(3):133–8

High inflammatory activity is associated with an increased amount of IFN–gamma transcripts in peripheral blood cells of patients with chronic hepatitis C virus infection. Mihm S, et al. **Med Microbiol Immunol (Berl)** 1996 Sep; 185(2):95–102

HCV liver disease in renal transplantation: a clinical and histological study. Haem J, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:48–51

Hepatitis C after renal transplantation: histopathological correlations. Hestin D, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 4:52–3

Current anatomico–pathological classification of hepatitis: characteristics of HCV infection. Mosnier JF. **Nephrol Dial Transplant** 1996;11 Suppl 4:12–5 (10 ref.)

Granulomatous cholangitis in chronic hepatitis C: a new diagnostic problem in liver pathology. Hoso M, et al. **Pathol Int** 1996 Apr;46(4):301–5

Pathomorphologic comparison of hepatitis C virus–related and hepatitis B virus–related cirrhosis bearing hepatocellular carcinoma. Kojiro M, et al. **Princess Takamatsu Symp** 1995;25:179–84

Preneoplastic lesions in chronic hepatitis C. Thung SN, et al. **Princess Takamatsu Symp** 1995;25:171–8 (40 ref.)

A clinico–pathological study of 163 untreated cases of chronic hepatitis C. Graf J, et al. **Rev Soc Bras Med Trop** 1996 Jan–Feb;29(1):21–5

Immunopathology of hepatitis C. Chang KM, et al. **Springer Semin Immunopathol** 1997;19(1):57–68 (79 ref.)

Hepatic lymphoid aggregates in chronic hepatitis C and mixed cryoglobulinemia. Monteverde A, et al. **Springer Semin Immunopathol** 1997;19(1):99–110

Histopathology and detection of hepatitis C virus in liver. Scheuer PJ, et al. **Springer Semin Immunopathol** 1997; 19(1):27–45 (119 ref.)

Comparative features of hepatitis C virus infection in humans and chimpanzees. Walker CM. **Springer Semin Immunopathol** 1997;19(1):85–98

Liver histopathology in patients with concurrent chronic hepatitis C and HIV infection. Bierhoff E, et al. **Virchows Arch** 1997 Apr;430(4):271–7

Detection and typing of hepatitis C RNA in liver biopsies and its relation to histopathology. Cathomas G, et al. **Virchows Arch** 1996 Dec;429(6):353–8

[Pathology of the hepatitis C virus: histopathological aspects]

Voigt JJ. **Rev Med Interne** 1997;18 Suppl 2:67s–69s (14 ref.) **(Fre)**

[Morphologic criteria for the assessment of etiology, degree of activity and stage of the process in viral chronic hepatitis B and C] Serov VV, et al. **Arkh Patol** 1996 Jul–Aug; 58(4):61–4 (Eng. Abstr.) **(Rus)**

[Comparative morphologic characteristics of viral hepatitis B and C] Serov VV, et al. **Arkh Patol** 1996 Sep–Oct; 58(5):47–52 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Distinct composition of viral quasispecies between ascites and serum samples from patients with late stage chronic hepatitis C. Yeh CT, et al.
Biochem Biophys Res Commun 1996 Oct 14;227(2):524–9

Bronchoalveolar lavage in mixed cryoglobulinaemia associated with hepatitis C virus. Manganelli P, et al.
Br J Rheumatol 1996 Oct;35(10):978–82

Pathophysiology and treatment of hepatitis C. Thomas HC, et al. **Drugs** 1996;52 Suppl 2:1–7; discussion 7–8 (53 ref.)

Antigen-processing polymorphisms in chronic hepatitis C infection. Höhler T, et al. **Exp Clin Immunogenet** 1996; 13(1):7–11

The natural history of chronic hepatitis C and what we should do about it [editorial; comment] Dienstag JL.
Gastroenterology 1997 Feb;112(2):651–5 (37 ref.). Comment on: Gastroenterology 1997 Feb;112(2):463–72.

Acute hepatic toxicity during cyclic chemotherapy in non Hodgkin's lymphoma. Faggioli P, et al. **Haematologica** 1997 Jan–Feb;82(1):38–42

Viral dynamics of hepatitis C early after orthotopic liver transplantation: evidence for rapid turnover of serum virions. Fukumoto T, et al. **Hepatology** 1996 Dec; 24(6):1351–4

Phylogenetic analysis of hepatitis C virus isolates: correlation to viremia, liver function tests, and histology [letter; comment] Puoti C, et al. **Hepatology** 1997 Aug;26(2):514–5 . Comment on: Hepatology 1996 Nov;24(5):1003–9.

Natural history of hepatitis C. Seeff LB. **Hepatology** 1997 Sep;26(3 Suppl 1):21S–28S (63 ref.)

Clinical features of hepatitis C virus (HCV) infection in pregnancy. Minola E, et al. **Int J Gynaecol Obstet** 1997 Aug;58(2):245–6

Analysis of the core region of HCV genome isolated from patients with chronic hepatitis C during intervals of normal ALT concentration. Arataki K, et al. **J Gastroenterol** 1996 Feb;31(1):140–2

Prediction of interferon-alpha-induced thyroid dysfunction in patients with chronic hepatitis C. Murakami T, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):528–31

Clinical features of patients with chronic liver disease associated with hepatitis C virus genotype 1a/1 in Okinawa, Japan. Sakugawa H, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):176–81

Human immunodeficiency virus infection modifies the natural history of chronic parenterally-acquired hepatitis C with an unusually rapid progression to cirrhosis. Soto B, et al. **J Hepatol** 1997 Jan;26(1):1–5

A 47-year-old man with asymptomatic hepatitis C infection, 1 year later [comment] Delbanco TL, et al. **JAMA** 1996 Nov 6;276(17):1428. Comment on: JAMA 1996 Apr 3;275(13):1023–9.

HCV infection in symptom-free patients. Caporaso N, et al. **Res Virol** 1997 Mar–Apr;148(2):123–5

Hepatitis C virus genotypes and severe hepatitis C virus recurrence after liver transplantation. Alberti AB, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):522–3

Hepatitis C virus infection after liver transplantation: clinical and virological features. Crespo J, et al.
Transplant Proc 1997 Feb–Mar;29(1–2):524–5

Initial clinical patterns of hepatitis C virus reinfection after liver transplantation for hepatitis C virus-related cirrhosis. Duvoux C, et al. **Transplant Proc** 1996 Oct;28(5):2844–5

Kinetics of hepatitis C viremia after orthotopic liver transplantation. Fukumoto T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):511–3

Outcomes of hepatitis C positive (HCV+) heart transplant recipients. Lake KD, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):581–2

Immunoglobulin M anti-hepatitis C virus core antibodies correlate with hepatitis C recurrence in liver graft recipients. Negro F, et al. **Transplant Proc** 1996 Oct; 28(5):2966–9

Causes of graft loss following liver transplantation for chronic hepatitis C. O'Reilly PM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):526–8

Long-term follow-up of hepatitis C virus infection among organ transplant recipients: implications for policies on organ procurement. Bouthot BA, et al. **Transplantation** 1997 Mar 27;63(6):849–53

Renal disease in hepatitis C-positive liver transplant recipients. Kendrick EA, et al. **Transplantation** 1997 May 15;63(9):1287–93

Intra- and extrahepatic arterial resistances in chronic hepatitis and liver cirrhosis. Piscaglia F, et al.
Ultrasound Med Biol 1997;23(5):675–82

[Clinical picture and evolution of hepatitis C] Marcellin P, et al. **Bull Acad Natl Med** 1996 Jun–Jul;180(6):1267–76; discussion 1276–8 (40 ref.) (Eng. Abstr.) **(Fre)**

[Course of the recurrence of hepatitis C virus infection after liver transplantation] Gugenheim J, et al.
Gastroenterol Clin Biol 1996;20(10):730–5 (Eng. Abstr.) **(Fre)**

[Monitoring of treated or non-treated chronic viral hepatitis C. 1: Monitoring of non-treated chronic hepatitis] Payen JL. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S167–74 **(Fre)**

[How should hepatitis C be monitored? Monitoring of non-treated hepatitis C] Poupon R.
Gastroenterol Clin Biol 1997;21(1 Pt 2):S96–8 (32 ref.) **(Fre)**

PREVENTION & CONTROL

Once more unto the breach: controlling hepatitis C in injecting drug users. Wodak A, et al. **Addiction** 1996 Feb; 91(2):181–4 (33 ref.)

Hepatitis C and anaesthetic breathing systems [letter; comment] Grange C. **Anaesth Intensive Care** 1996 Aug; 24(4):514. Comment on: Anaesth Intensive Care 1995 Apr;24(2):169–72.

Barriers to hepatitis C transmission within breathing systems: efficacy of a pleated hydrophobic filter. Lloyd G, et al. **Anaesth Intensive Care** 1997 Jun;25(3):235–8

Sexual transmission of the hepatitis C virus and efficacy of prophylaxis with intramuscular immune serum globulin. A randomized controlled trial. Piazza M, et al.
Arch Intern Med 1997 Jul 28;157(14):1537–44

Nanofiltration of immunoglobulin with 35-nm filters fails to remove substantial amounts of HCV [letter] Eibl J, et al. **Biologicals** 1996 Sep;24(3):285–7

Needle exchange programmes should do more to prevent transmission of hepatitis C virus [letter] Ford C. **BMJ** 1996 Sep 21;313(7059):752

Oral ribavirin for prevention of severe liver disease caused by hepatitis C virus during allogeneic bone marrow transplantation. Ljungman P, et al. **Clin Infect Dis** 1996 Jul;23(1):167–9

Hepatitis C virus screening and intravenous immunoglobulin safety in Japan. Nishioka K. **Clin Ther** 1996;18 Suppl B:83–92

A Canadian hospital-based HIV/hepatitis C look-back notification program [see comments] Heddle N, et al. **CMAJ** 1997 Jul 15;157(2):149–54. Comment in: CMAJ 1997 Jul 15;157(2):155–7.

ESGE guidelines for the prevention of endoscopic transmission of type C hepatitis and update on Creutzfeldt-Jakob disease. European Society of Gastrointestinal Endoscopy. Rey JF, et al. **Endoscopy** 1997 Mar;29(3):203–4

Evidence that the HLA DQA1*03 allele confers protection from chronic HCV-infection in Northern European Caucasoids. Tibbs C, et al. **Hepatology** 1996 Dec; 24(6):1342–5

HICPAC supports HCV postexposure follow-up [news] Pugliese G. **Infect Control Hosp Epidemiol** 1996 Feb; 17(2):141

Optimising the safety of blood products [editorial; comment] Pauli G. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):122–3. Comment on: Infusionsther Transfusionsmed 1996 Jun;23(3):124–30.

How accurate is serologic testing of plasma pools for hepatitis B virus surface antigen, anti-human immunodeficiency virus 1 and 2, and anti-hepatitis C virus? [see comments] Rabenau H, et al. **Infusionsther Transfusionsmed** 1996 Jun; 23(3):124–30. Comment in: Infusionsther Transfusionsmed 1996 Jun;23(3):122–3.

Effectiveness of universal precautions in limiting nosocomial transmission of hepatitis C virus in haemodialysis units [letter] Aucella F, et al. **Int J Artif Organs** 1996 Jul; 19(7):435–6

Alanine aminotransferase assay to detect anti-HCV positive subjects in non-selected populations [letter] Guadagnino V, et al. **J Clin Pathol** 1997 Aug;50(8):709

Acute hepatitis C transmitted by needlestick accident despite short duration interferon treatment. Nakano Y, et al.
J Gastroenterol Hepatol 1995 Sep–Oct;10(5):609–11

Guidelines regarding HIV and other bloodborne pathogens in vascular/interventional radiology. SCVIR Technology Assessment Committee. Hansen ME, et al.
J Vasc Interv Radiol 1997 Jul–Aug;8(4):667–76

From the Centers for Disease Control and Prevention. Recommendations for follow-up of health-care workers after occupational exposure to hepatitis C virus. **JAMA** 1997 Oct 1;278(13):1056–7

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [see comments] Rehman K, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):152–4. Comment in: JPMA J Pak Med Assoc 1997 Mar;47(3):100–1.

A cruel and unusual punishment [editorial] Crofts N.
Med J Aust 1997 Feb 3;166(3):116

Universal precautions: attitudes of Australian and New Zealand anaesthetists [see comments] Richards MJ, et al. **Med J Aust** 1997 Feb 3;166(3):138–40. Comment in: Med J Aust 1997 Feb 3;166(3):141. Comment in: Med J Aust 1997 Feb 3;166(3):142.

Recommendations for follow-up of health-care workers after occupational exposure to hepatitis C virus.
MMWR Morb Mortal Wkly Rep 1997 Jul 4;46(26):603–6

Serologic survey for control of hepatitis C in haemodialysis patients: third-generation assays and analysis of costs. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):298–303

Protection and defence mechanisms in HCV infection. Inchauspé G. **Nephrol Dial Transplant** 1996;11 Suppl 4:6–8 (21 ref.)

Is HCV-infection another reason to opt for peritoneal dialysis in end-stage renal failure? [letter] Lombardi M, et al.
Nephron 1997;76(3):357

Prospects for prophylactic and therapeutic hepatitis C virus vaccines. Houghton M, et al. **Princess Takamatsu Symp** 1995;25:237–43 (33 ref.)

Hepatitis C and its sequelae: the biology of hepatitis C virus and implications for its control. Purcell RH.
Princess Takamatsu Symp 1995;25:1–13 (57 ref.)

Prevention of hepatitis C virus infection in chimpanzees by hyperimmune serum against the hypervariable region 1 of the envelope 2 protein. Farci P, et al.
Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15394–9

Prevention of posttransfusion hepatitis by screening with second-generation anti-HCV antibody and clinical features of HCV infection. Nishikado T, et al.
Tokushima J Exp Med 1996 Jun;43(1–2):25–37

Hepatitis C virus: models of immunopathogenesis and prophylaxis. Eckels DD, et al. **Transfusion** 1996 Sep; 36(9):836–44 (123 ref.)

Prophylaxis against HCV recurrence after liver transplantation: effect of interferon and ribavirin combination. Mazzaferro V, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):519–21

Prevention of transmission of hepatitis C virus in bone marrow transplantation by treating the donor with alpha-interferon. Vance EA, et al. **Transplantation** 1996 Nov 15;62(9):1358–60

Safety of blood products derived from plasma pools: the positive impact of anti-HCV screening on the quality of such products. da Silva Cardoso M, et al. **Vox Sang** 1996; 71(3):184–6

[Anti-hepatitis C virus screening to prevent hepatitis C virus infection in blood donors] Sun Y, et al.
Chung Hua Nei Ko Tsa Chih 1995 Oct;34(10):696–9 (Eng. Abstr.) **(Chi)**

[Prevention and treatment of hepatitis C] Poupon R, et al. **Bull Acad Natl Med** 1996 Jun–Jul;180(6):1279–89; discussion 1289–92 (45 ref.) (Eng. Abstr.) **(Fre)**

[Should hepatitis C be screened? Analysis of oriented screening strategies for hepatitis C virus infection] Desenclos JC, et al. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S25–32 **(Fre)**

[Should hepatitis C be screened? Hepatitis C: screening tools] Lunel F. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S11–24 (86 ref.) **(Fre)**

[Hepatitis C: risk factors and value of screening] Musset L, et al. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S121–9 (102 ref.) **(Fre)**

[Efficacy and psychosocial impact of hepatitis C screening] Perez P. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S140–7 (40 ref.) **(Fre)**

[Hepatitis C: screening tools] Pham BN, et al.
Gastroenterol Clin Biol 1997;21(1 Pt 2):S130–9 (70 ref.) **(Fre)**

[Should hepatitis C be screened? Socioeconomic analysis of different screening strategies for chronic hepatitis C in French population] Rotily M, et al.
Gastroenterol Clin Biol 1997;21(1 Pt 2):S33–40 **(Fre)**

[Should hepatitis C be screened? Value of hepatitis C screening] Trépo C. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S1–3 (14 ref.) **(Fre)**

[Hepatitis c virus infection in dialysis: necessity of prevention and screening] Poignet JL. **Nephrologie** 1997;18(2):39–40 **(Fre)**

[Medical and economic evaluation of donated blood screening for hepatitis C and non-A, non-B, non-C hepatitis] Vergnon P, et al.
Rev Epidemiol Sante Publique 1996 Jan;44(1):66–79 (Eng. Abstr.) **(Fre)**

[Society and hepatitis C--knowledge, perceptions, and public action] Setbon M. **Transfus Clin Biol** 1997;4(3):329–38 (Eng. Abstr.) **(Fre)**

[Organization of a bone and tissue bank. Consequences for organization of bone and tissue banks after HIV and hepatitis C infections] Schratt HE, et al. **Unfallchirurg** 1996 Nov;99(11):880–8 (Eng. Abstr.) **(Ger)**

[Preventive vaccination for viral hepatitis] Jilg W.
Z Gastroenterol 1997 Jul;35(7):585–90 (18 ref.) (Eng. Abstr.) **(Ger)**

[The basics for establishing a needlestick injury prevention program in hospitals] Kidouchi K, et al.
Kansenshogaku Zasshi 1997 Feb;71(2):108–15 (Eng. Abstr.) **(Jpn)**

[Perspectives of developing a vaccine against hepatitis C virus] Skarpetowski AC, et al. **Pediatr Pol** 1996 Apr; 71(4):295–300 (25 ref.) (Eng. Abstr.) **(Pol)**

[Prevalence of antibodies against hepatitis A, B, C and E viruses in the rural child population in Northern Extremadura] Montes Martínez I, et al. **An Esp Pediatr** 1996 Aug;45(2):133–6 (Eng. Abstr.) **(Spa)**

[Risk of hepatitis C virus infection among health staff: current facts and prevention potential after exposure] Serra C, et al. **Med Clin (Barc)** 1997 Apr 26;108(16):629–35 **(Spa)**

PSYCHOLOGY

Hepatitis C antibody positive: what next? [editorial] [published erratum appears in Int J STD AIDS 1997 Mar;8(3):149] Newell AN, et al. **Int J STD AIDS** 1997 Jan;8(1):1–4 (41 ref.)

SURGERY

Liver transplantation in virus-induced chronic liver disease. Colantoni A, et al. **Baillieres Clin Gastroenterol** 1996 Jul; 10(2):375–88 (65 ref.)

Evaluation of liver transplantation for high-risk indications. Chung SW, et al. **Br J Surg** 1997 Feb;84(2):189–95

Quality of life of hepatitis B and C patients after liver transplantation. Dickson RC, et al. **Clin Transplant** 1997 Aug;11(4):282–5

Rapid development of hepatic alpha1-antitrypsin globules after liver transplantation for chronic hepatitis C. Combs C, et al. **Gastroenterology** 1997 Apr;112(4):1372–5

Immunohistochemical evidence of immunopathogenetic mechanisms in chronic hepatitis C recurrence after liver transplantation. Asanza CG, et al. **Hepatology** 1997 Sep; 26(3):755–63

Liver transplantation for chronic viral hepatitis. Rakela J. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S54–5

Hepatitis C: indication for anti-viral therapy? Platz KP, et al. **Transpl Int** 1996;9 Suppl 1:S198–201

Hepatitis C virus genotypes and severe hepatitis C virus recurrence after liver transplantation. Alberti AB, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):522–3

Long-term ribavirin therapy for recurrent hepatitis C after liver transplantation. Aljumah AA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):514

New approaches to treatment of recurrent hepatitis C virus following liver transplantation using ribavirin. Bizollon T, et al. **Transplant Proc** 1996 Oct;28(5):2842–3 (13 ref.)

Hepatitis C virus infection after liver transplantation: clinical and virological features. Crespo J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):524–5

Initial clinical patterns of hepatitis C virus reinfection after liver transplantation for hepatitis C virus-related cirrhosis. Duvoux C, et al. **Transplant Proc** 1996 Oct;28(5):2844–5

Kinetics of hepatitis C viremia after orthotopic liver transplantation. Fukumoto T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):511–3

Prophylaxis against HCV recurrence after liver transplantation: effect of interferon and ribavirin combination. Mazzaferro V, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):519–21

Long-term follow-up in hepatitis C patients with respect to immunosuppression. Mueller AR, et al. **Transplant Proc** 1996 Dec;28(6):3241–2

Immunoglobulin M anti-hepatitis C virus core antibodies correlate with hepatitis C recurrence in liver graft recipients. Negro F, et al. **Transplant Proc** 1996 Oct; 28(5):2966–9

Causes of graft loss following liver transplantation for chronic hepatitis C. O'Reilly PM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):526–8

Graft loss following liver transplantation in patients with chronic hepatitis C. Rosen HR, et al. **Transplantation** 1996 Dec 27;62(12):1773–6

THERAPY

Successful interferon treatment for lichen planus associated with chronic active hepatitis due to hepatitis C virus infection [letter] Lapidoth M, et al. **Acta Derm Venereol** 1997 Mar;77(2):171–2

Effect of alphà-interferon on natural killer cell activity and lymphocyte subsets in thalassemia patients with chronic hepatitis C. Malaponte G, et al. **Acta Haematol** 1997; 98(2):83–8

Relationship between response to interferon therapy and detection of hepatitis C virus RNA by differential flotation centrifugation. Wato M, et al. **Acta Med Okayama** 1996 Jun;50(3):139–44

Effect of alcohol intake on the efficacy of interferon therapy in patients with chronic hepatitis C as evaluated by multivariate logistic regression analysis. Mochida S, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):371A–377A

NIH consensus development conference targets prevention and management of hepatitis C. **Am Fam Physician** 1997 Sep 1;56(3):959–61 (00 ref.)

Sustained response to interferon in a patient with common variable immunodeficiency and hepatitis C. Castro F, et al. **Am J Gastroenterol** 1997 Sep;92(9):1557–8

Long-term prognosis of chronic hepatitis C after treatment with interferon alpha 2b and characterization of incomplete responders. Hakozaki Y, et al. **Am J Gastroenterol** 1996 Oct;91(10):2144–9

Therapy in chronic hepatitis C: say goodbye to the 6-month interferon regimen [editorial] Koff RS. **Am J Gastroenterol** 1996 Oct;91(10):2072–4

Breakthrough of interferon therapy [letter; comment] Scalori A, et al. **Am J Gastroenterol** 1996 Oct;91(10):2249–50. Comment on: Am J Gastroenterol 1995 Jun;90(6):951–4.

Acute hepatitis type C co-infected with GBV-C treated with interferon [letter] Suzuki H, et al. **Am J Gastroenterol** 1996 Dec;91(12):2651–2

Consensus panel advocates prolonged interferon treatment for chronic hepatitis C [news] **Am J Health Syst Pharm** 1997 May 15;54(10):1140, 1145

Serological markers of autoimmunity in renal transplant patients before and after alpha-interferon therapy for chronic hepatitis C. Rostaing L, et al. **Am J Nephrol** 1996; 16(6):478–83

Interferon alfa in the treatment of chronic viral hepatitis B and C. Woo MH, et al. **Ann Pharmacother** 1997 Mar; 31(3):330–7 (59 ref.)

Effect of alpha interferon (IFN-alpha) on 2'-5' oligoadenylate synthetase activity in peripheral blood mononuclear cells of patients with chronic hepatitis C: relationship to the antiviral effect of IFN-alpha. Pawlotsky JM, et al. **Antimicrob Agents Chemother** 1996 Feb; 40(2):320–4

Comparison of the long-term effects of treatment with oral and parenteral interferon alpha in chronic viral hepatitis patients. Zielińska W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):359–66

Hepatitis C and policy implementation: ethics as a dialogic process for resource allocation [editorial] Hepworth J, et al. **Aust N Z J Public Health** 1997 Feb;21(1):4–7

Interferon therapy for chronic hepatitis C. Davis GL. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):289–98 (78 ref.)

New treatments for chronic viral hepatitis B and C. Dusheiko GM. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):299–333 (154 ref.)

A multicenter controlled, randomized, open trial of interferon alpha2b treatment of anti-human immunodeficiency virus-negative hemophilic patients with chronic hepatitis C. Hepatitis Study Group of the Association of Italian Hemophilia Centers. Rumi MG, et al. **Blood** 1997 May 15; 89(10):3529–33

Management of chronic hepatitis C: clinical audit of biopsy based management algorithm. Foster GR, et al. **BMJ** 1997 Aug 23;315(7106):453–8

New guidelines on hepatitis C [news] Tanne JH. **BMJ** 1997 Apr 12;314(7087):1070

Development of anti-interferon antibodies and breakthrough hepatitis during treatment for HCV infection in haemophiliacs. Hanley JP, et al. **Br J Haematol** 1996 Sep; 94(3):551–6

Interferon increases serum thrombopoietin in patients with chronic hepatitis C. Shiota G, et al. **Br J Haematol** 1997 May;97(2):340–2

Failure of ketoprofen and interferon combination therapy to improve interferon-resistant chronic hepatitis C. Anderson FH, et al. **Can J Gastroenterol** 1997 May–Jun;11(4):294–7

Management of viral hepatitis: clinical and public health perspectives--a consensus statement. CASL Hepatitis Consensus Group. Canadian Association for Study of the Liver. Sherman M. **Can J Gastroenterol** 1997 Jul–Aug; 11(5):407–16 (58 ref.)

How should we treat hepatitis C in 1997? Williams CN. **Can J Gastroenterol** 1997 May–Jun;11(4):291–2

Chronic hepatitis C: a clinical overview. Younossi ZM. **Cleve Clin J Med** 1997 May;64(5):259–68 (48 ref.)

alpha-Glutathione S-transferase levels in chronic hepatitis C infection and the effect of alpha-interferon therapy. Thorburn D, et al. **Clin Chim Acta** 1996 Sep 30; 253(1–2):171–80

Development of arthritis and hypothyroidism during alpha-interferon therapy for chronic hepatitis C. Pittau E, et al. **Clin Exp Rheumatol** 1997 Jul–Aug;15(4):415–9 (25 ref.)

Early therapy with interferon for acute hepatitis C acquired through a needlestick. Noguchi S, et al. **Clin Infect Dis** 1997 May;24(5):992–4

Interferon and other therapies for hepatitis B and hepatitis C infections. Rothstein KD, et al. **Clin Lab Med** 1996 Jun; 16(2):465–91 (154 ref.)

Hepatitis C virus infection: clinical aspects and treatment with interferon alfa. Jonas MM. **Clin Ther** 1996;18 Suppl B:110–25 (127 ref.)

Interferon-alpha therapy for hepatitis C virus recurrence after liver transplantation: long-term response with maintenance therapy. Singh N, et al. **Clin Transplant** 1996 Aug;10(4):348–51

Treatment of chronic hepatitis C. Nelson DR, et al. **Compr Ther** 1997 Apr;23(4):269–76 (29 ref.)

Preliminary results of beta-interferon treatment in the elderly. Terranova R, et al. **Control Clin Trials** 1996 Apr; 17(2):123–9

Diabetes mellitus and interferon therapy [letter] Frankart L, et al. **Diabet Med** 1997 May;14(5):405

Modeling therapeutic benefit in the midst of uncertainty: therapy for hepatitis C. Bennett WG, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):56S–62S

Duration of HCV infection as a predictor of nonresponse to interferon. Craxì A, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):86S–92S

Managing patients on interferon therapy. Esteban R. **Dig Dis Sci** 1996 Dec;41(12 Suppl):121S–125S

Two years versus six months of interferon therapy for chronic hepatitis C. Farrell GC. **Dig Dis Sci** 1996 Dec;41(12 Suppl):93S–98S

Dose increase augments response rate to interferon-alpha in chronic hepatitis C. Ferenci P, et al. **Dig Dis Sci** 1996 Dec; 41(12 Suppl):103S–108S

Effect of obesity on pharmacokinetics and biologic effect of interferon-alpha in hepatitis C. Lam NP, et al. **Dig Dis Sci** 1997 Jan;42(1):178–85

Interferon-alpha therapy for chronic hepatitis C in special patient populations. Marcellin P, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):126S–130S

Hepatic Fas antigen expression before and after interferon therapy in patients with chronic hepatitis C. Okazaki M, et al. **Dig Dis Sci** 1996 Dec;41(12):2453–8

Endogenous interferon-alpha concentration and outcome of interferon treatment in patients with chronic hepatitis C. Pirisi M, et al. **Dig Dis Sci** 1997 Apr;42(4):767–71

Treatment of chronic hepatitis C by interferon for longer duration than six months. Poynard T, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):99S–102S

Short-term versus sustained response to interferon therapy: effect on histology. Reichard O. **Dig Dis Sci** 1996 Dec; 41(12 Suppl):109S–114S

Predictors of response to interferon therapy. Saracco G, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):115S–120S

Interferon-ribavirin combination therapy for chronic hepatitis C. Schalm SW, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):131S–134S

Long-term efficacy of interferon-alpha and ursodeoxycholic acid in treatment of chronic type C hepatitis. Senturk H, et al. **Dig Dis Sci** 1997 Jul;42(7):1438–44

Granulomatous hepatitis in a patient with chronic hepatitis C treated with interferon-alpha. Veerabagu MP, et al. **Dig Dis Sci** 1997 Jul;42(7):1445–8

High-dose interferon-alpha2b treatment prevents chronicity in acute hepatitis C: a pilot study. Vogel W, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):81S–85S

Long-term follow-up of patients with chronic hepatitis C after interferon-alpha treatment. Teuber G, et al. **Digestion** 1996 Nov–Dec;57(6):464–71

Pseudouridine for monitoring interferon treatment of patients with chronic hepatitis C. Colonna A, et al. **Eur J Clin Chem Clin Biochem** 1996 Sep;34(9):697–700

Biochemical and virological response of chronic hepatitis C after treatment with interferon-alpha for 6 or 12 months: predictors of sustained remission. Papatheodoridis GV, et al. **Eur J Gastroenterol Hepatol** 1996 May;8(5):469–75

HCV-RNA levels play an important role independently of genotype in predicting response to interferon therapy. Picciotto A, et al. **Eur J Gastroenterol Hepatol** 1997 Jan; 9(1):67–9

A long-term follow-up study of interferon treatment for chronic hepatitis C in Japanese patients with congenital bleeding disorders. Yamada M, et al. **Eur J Haematol** 1996 Aug;57(2):165–70

Clinical efficacy of interferon therapy for chronic hepatitis C in the Kita-Kyushu District of Japan. Nomura H, et al. **Fukuoka Igaku Zasshi** 1997 Jun;88(6):253–60

The natural history of chronic hepatitis C and what we should do about it [editorial; comment] Dienstag JL. **Gastroenterology** 1997 Feb;112(2):651–5 (37 ref.). Comment on: Gastroenterology 1997 Feb;112(2):463–72.

Specific hepatitis C virus NS5A sequences determine the outcome of interferon treatment. Sato C, et al. **Gastroenterology** 1996 Oct;111(4):1152–4

Viral hepatitis: how to manage type C and D infections. Najm W. **Geriatrics** 1997 May;52(5):28–30, 33–4, 37 (20 ref.)

Liver iron concentration and distribution in chronic hepatitis C before and after interferon treatment [see comments] Boucher E, et al. **Gut** 1997 Jul;41(1):115–20. Comment in: Gut 1997 Jul;41(1):127–8.

Adding interventions to interferon in chronic HCV infections [comment] Main J. **Gut** 1996 Nov;39(5):769. Comment on: Gut 1996 Nov;39(5):679–83.

Combination thymosin alpha 1 and lymphoblastoid interferon treatment in chronic hepatitis C [see comments] Rasi G, et al. **Gut** 1996 Nov;39(5):679–83. Comment in: Gut 1996 Nov;39(5):769.

Parameters predicting response to alpha-interferon treatment in chronic hepatitis C. Glück T, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):484–91

Predictive factors for efficacy of interferon therapy in chronic hepatitis type C. Ishibashi K, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):535–41

Comparison of treatment with two different doses of leukocyte interferon alpha in patients with chronic hepatitis C. Laghi V, et al. **Hepatogastroenterology** 1997 Jul–Aug; 44(16):1182–6

Treatment of chronic hepatitis C with interferon-alpha in patients infected with the human immunodeficiency virus. Mauss S, et al. **Hepatogastroenterology** 1995 Sep–Oct; 42(5):528–34

Treatment of chronic hepatitis C with a-interferon: an analysis of the literature. Niederau C, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1544–56

Case of small hepatocellular carcinoma in the caudate lobe detected after interferon caused disappearance of hepatitis C virus. Tamori A, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1079–83

Retreatment of hepatitis C interferon non-responders with larger doses of interferon with and without phlebotomy. Van Thiel DH, et al. **Hepatogastroenterology** 1996 Nov–Dec;43(12):1557–61

National Institutes of Health Consensus Development Conference Panel statement: management of hepatitis C. **Hepatology** 1997 Sep;26(3 Suppl 1):2S–10S (0 ref.)

Therapy of hepatitis C: re-treatment with alpha interferon. Alberti A, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):137S–142S (26 ref.)

Correlation of biochemical response to interferon alfa with histological improvement in hepatitis C: a meta-analysis of diagnostic test characteristics. Bonis PA, et al. **Hepatology** 1997 Oct;26(4):1035–44

Therapy of hepatitis C: other options. Bonkovsky HL. **Hepatology** 1997 Sep;26(3 Suppl 1):143S–151S (63 ref.)

Therapy of hepatitis C: meta-analysis of interferon alfa-2b trials. Carithers RL Jr, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):83S–88S

Factors predictive of a beneficial response to therapy of hepatitis C. Davis GL, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):122S–127S (43 ref.)

Side effects of alpha interferon in chronic hepatitis C. Dusheiko G. **Hepatology** 1997 Sep;26(3 Suppl 1):112S–121S (112 ref.)

Management of hepatitis C: a national survey of gastroenterologists and hepatologists. Everhart JE, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):78S–82S (2 ref.)

Therapy of hepatitis C: interferon alfa-n1 trials. Farrell GC. **Hepatology** 1997 Sep;26(3 Suppl 1):96S–100S (24 ref.)

Therapy of hepatitis C: consensus interferon trials. Consensus Interferon Study Group. Keeffe EB, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):101S–107S (28 ref.)

Therapy of hepatitis C: interferon alfa-2a trials. Lee WM. **Hepatology** 1997 Sep;26(3 Suppl 1):89S–95S

Therapy of hepatitis C: overview. Lindsay KL. **Hepatology** 1997 Sep;26(3 Suppl 1):71S–77S (44 ref.)

Response to higher doses of interferon alfa-2b in patients with chronic hepatitis C: a randomized multicenter trial. Hepatitis Interventional Therapy Group. Lindsay KL, et al. **Hepatology** 1996 Nov;24(5):1034–40

Biochemical and virological outcome of patients with chronic hepatitis C treated with interferon alfa-2b for 6 or 12 months: a 4-year follow-up of 211 patients. Manesis EK, et al. **Hepatology** 1997 Sep;26(3):734–9

Therapy of hepatitis C: patients with normal aminotransferase levels. Marcellin P, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):133S–136S (19 ref.)

Effects of interferon treatment on the antiviral T-cell response in hepatitis C virus genotype 1b- and genotype 2c-infected patients. Missale G, et al. **Hepatology** 1997 Sep; 26(3):792–7

Meta-analysis of interferon randomized trials in the treatment of viral hepatitis C: effects of dose and duration. Poynard T, et al. **Hepatology** 1996 Oct;24(4):778–89

Therapy of hepatitis C: alpha interferon and ribavirin. Reichard O, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):108S–111S (29 ref.)

Virological response to interferon treatment in hepatitis C virus carriers with normal aminotransferase levels and chronic hepatitis. Rossini A, et al. **Hepatology** 1997 Oct; 26(4):1012–7

A prospective, randomized trial comparing lymphoblastoid to recombinant interferon alfa 2a as therapy for chronic hepatitis C. Rumi M, et al. **Hepatology** 1996 Dec; 24(6):1366–70

Therapy of hepatitis C: patients with cirrhosis. Schalm SW, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):128S–132S (13 ref.)

Relationship between biochemical, virological, and histological response during interferon treatment of chronic hepatitis C. Shiffman ML, et al. **Hepatology** 1997 Sep; 26(3):780–5

The clinical significance of changes in genetic heterogeneity of the hypervariable region 1 in chronic hepatitis C with interferon therapy. Shindo M, et al. **Hepatology** 1996 Nov; 24(5):1018–23

Treatment of chronic hepatitis C with interferon alfa-n3: a multicenter, randomized, open-label trial. Simon DM, et al. **Hepatology** 1997 Feb;25(2):445–8

Treatment of chronic hepatitis C with consensus interferon: a multicenter, randomized, controlled trial. Consensus Interferon Study Group. Tong MJ, et al. **Hepatology** 1997 Sep;26(3):747–54

Immunological effects following administration of interferon-alpha in patients with chronic hepatitis C virus (cHCV) infection. Jirillo E, et al. **Immunopharmacol Immunotoxicol** 1996 Aug;18(3):355–74

It is futile to use interferon in HCV-related chronic hepatitis with viremia levels above 3 x 10(6) eq/ml [letter] Morisco F, et al. **Infection** 1997 May-Jun;25(3):190–1

Recurrence of sarcoidosis following interferon alpha therapy for chronic hepatitis C. Nakajima M, et al. **Intern Med** 1996 May;35(5):376–9

Occurrence of Graves' disease during retreatment with interferon-alpha 2a for chronic hepatitis C. Wada M, et al. **Intern Med** 1995 Nov;34(11):1097–1100

Prolonged treatment of chronic C hepatitis by means of medium-high doses of recombinant alpha-2b interferon: an open study to evaluate response and long-term relapse. Benetti GP, et al. **Ital J Gastroenterol** 1996 Apr; 28(3):127–35

Long-term variations of serum laminin and procollagen III peptide in chronic HCV hepatitis after alpha-interferon therapy. Casaril M, et al. **Ital J Gastroenterol** 1996 Jan; 28(1):15–9

Treatment of "problematic" hepatitis C patients. Colombo M. **Ital J Gastroenterol** 1996 Sep;28(7):393–5 (24 ref.)

Resistance to alpha interferon therapy in HCV chronic liver disease: role of hepatic fibrosis. Di Costanzo GG, et al. **Ital J Gastroenterol** 1996 Apr;28(3):140–6

Interferon and steroid treatment in patients with chronic hepatitis C and antinuclear or anti-liver-kidney microsomal antibodies. Provenzano G, et al. **Ital J Gastroenterol** 1996 Sep;28(7):377–80

Pilot study of a short course of ribavirin and alpha interferon in the treatment of chronic active hepatitis C not responding to alpha-interferon alone. Scotto G, et al. **Ital J Gastroenterol** 1996 Dec;28(9):505–11

Histological changes but not virus eradication reflect biochemical improvement in chronic hepatitis C patients showing a long-term response to interferon alpha therapy. Bruno S, et al. **Ital J Gastroenterol Hepatol** 1997 Feb; 29(1):31–7

Moving towards the optimal treatment of chronic hepatitis C. Cammà C, et al. **Ital J Gastroenterol Hepatol** 1997 Feb; 29(1):69–74 (32 ref.)

Injection site vasculitis in a patient receiving interferon alfa for chronic hepatitis C. Christian MM, et al. **J Am Acad Dermatol** 1997 Jul;37(1):118–20

Oral erosive lichen planus with epidermolytic hyperkeratosis during interferon alfa-2b therapy for chronic hepatitis C virus infection. Schlesinger TE, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):1023–5

Management of hepatitis C [letter; comment] Kirchner JT. **J Am Board Fam Pract** 1996 Sep-Oct;9(5):391. Comment on: J Am Board Fam Pract 1996 May-Jun;9(3):157–61.

Predictive factors of a response to interferon therapy in chronic hepatitis C. Nomura H, et al. **J Clin Gastroenterol** 1996 Oct;23(3):185–90

Subacute thyroiditis during interferon-alpha therapy for chronic hepatitis C. Falaschi P, et al. **J Endocrinol Invest** 1997 Jan;20(1):24–8

Efficacy of combination therapy of interferon-alpha with ursodeoxycholic acid in chronic hepatitis C: a randomized controlled clinical trial. Kiso S, et al. **J Gastroenterol** 1997 Feb;32(1):56–62

Ischemic colitis during interferon-alpha treatment for chronic active hepatitis C. Tada H, et al. **J Gastroenterol** 1996 Aug;31(4):582–4

Cold activation of complement in sera from patients with persistent hepatitis C virus infection on interferon therapy. Aikawa T, et al. **J Gastroenterol Hepatol** 1996 Apr; 11(4):341–6

Case report: development of hepatocellular carcinoma in a patient with chronic hepatitis C infection after a complete and sustained response to interferon-alpha. Hirashima N, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):955–8

Response to interferon in chronic hepatitis C due to mixed genotype infection. Horiike N, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):353–7

Efficacy and side effects of intermittent recombinant interferon-alpha 2a in chronic aggressive hepatitis C: with or without initial daily administration. Itoh H, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):718–23

Earlier loss of hepatitis C virus RNA in interferon therapy can predict a long-term response in chronic hepatitis C [see comments] Kakumu S, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):468–72. Comment in: J Gastroenterol Hepatol 1997 Jun;12(6):450–2.

Risk factors and the effect of interferon therapy in the development of hepatocellular carcinoma: a multivariate analysis in 343 patients. Kuwana K, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):149–55

Prediction of interferon-alpha-induced thyroid dysfunction in patients with chronic hepatitis C. Murakami T, et al. **J Gastroenterol Hepatol** 1995 Sep-Oct;10(5):528–31

Interferon-alpha therapy for individuals with normal serum alanine aminotransferase levels before treatment. Orito E, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):58–61

Real-time monitoring of HCV-RNA by single tube assay kit and potential importance for predicting virological sustained response in patients with chronic hepatitis C. Shiratori Y, et al. **J Gastroenterol Hepatol** 1996 Aug; 11(8):705–11

Detection of hepatocellular carcinoma after interferon therapy for chronic hepatitis C: clinical study of 26 cases. Sugiura N, et al. **J Gastroenterol Hepatol** 1996 Jun; 11(6):535–9

Interferon therapy of hepatitis C. Who to treat and for how long? [editorial; comment] Van Thiel DH. **J Gastroenterol Hepatol** 1997 Jun;12(6):450–2. Comment on: J Gastroenterol Hepatol 1997 Jun;12(6):468–72.

Serum hyaluronic acid reflects the effect of interferon treatment on hepatic fibrosis in patients with chronic hepatitis C. Yamada M, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):646–51

Quantitative analysis of interferon alpha/beta receptor mRNA in the liver of patients with chronic hepatitis C: correlation with serum hepatitis C virus-RNA levels and response to treatment with interferon. Yatsuhashi H, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):460–7

Permanent response to alpha-interferon therapy in chronic hepatitis C is preceded by rapid clearance of HCV-RNA from serum. Ampurdanés S, et al. **J Hepatol** 1996 Dec; 25(6):827–32

Elevated serum levels of 90K/MAC-2 BP predict unresponsiveness to alpha-interferon therapy in chronic HCV hepatitis patients. Artini M, et al. **J Hepatol** 1996 Aug;25(2):212–7

Prevalence of breakthrough in chronic hepatitis C patients undergoing antiviral therapy: role of type and schedule of alpha interferon C.H.S.G [letter] Bellati G, et al. **J Hepatol** 1997 Feb;26(2):449–50

Responsiveness to interferon alpha treatment in patients with chronic hepatitis C coinfected with hepatitis G virus. Berg T, et al. **J Hepatol** 1996 Nov;25(5):763–8

Treatment for recurrent viral hepatitis after liver transplantation. Brumage LK, et al. **J Hepatol** 1997 Feb; 26(2):440–5 (19 ref.)

The effect of interferon on the liver in chronic hepatitis C: a quantitative evaluation of histology by meta-analysis. Cammà C, et al. **J Hepatol** 1997 Jun;26(6):1187–99

New and forthcoming therapies for viral hepatitis. Carreño V, et al. **J Hepatol** 1996;24(2 Suppl):74–6

Immune thrombocytopenia and alpha-interferon therapy. Dourakis SP, et al. **J Hepatol** 1996 Dec;25(6):972–5

Effectiveness of interferon alfa on incidence of hepatocellular carcinoma and decompensation in cirrhosis type C. European Concerted Action on Viral Hepatitis (EUROHEP). Fattovich G, et al. **J Hepatol** 1997 Jul; 27(1):201–5

Effectiveness of interferon-alpha therapy in chronic hepatitis C is associated with the amount of interferon-alpha receptor mRNA in the liver. Fukuda R, et al. **J Hepatol** 1997 Mar;26(3):455–61

Treatment of chronic hepatitis C with interferon alpha: long-term follow-up and prognostic relevance of HCV genotypes. Hopf U, et al. **J Hepatol** 1996;24(2 Suppl):67–73

The quantitative humoral immune response to the hepatitis C virus is correlated with disease activity and response to interferon-alpha. Löhr HF, et al. **J Hepatol** 1996 Sep; 25(3):292–300

HCV viraemia is more important than genotype as a predictor of response to interferon in Sicily (southern Italy). Magrin S, et al. **J Hepatol** 1996 Nov;25(5):583–90

Interleukin-1 receptor antagonist plasma concentration is specifically increased by alpha-2A-interferon treatment. Naveau S, et al. **J Hepatol** 1997 Aug;27(2):272–5

Side effects of high-dose interferon therapy for chronic hepatitis C. Okanoue T, et al. **J Hepatol** 1996 Sep; 25(3):283–91

Long-term interferon alfa-2b retreatment of relapsing patients with chronic hepatitis C [letter] Picciotto A, et al. **J Hepatol** 1997 Feb;26(2):447–8

Interferon-alpha treatment of hepatitis C virus-associated mixed cryoglobulinemia. Polzien F, et al. **J Hepatol** 1997 Jul;27(1):63–71

Fixed versus titrated interferon-alpha 2B in chronic hepatitis C. A randomized controlled multicenter trial. The Swiss Association for the Study of the Liver. Reichen J, et al. **J Hepatol** 1996 Sep;25(3):275–82

Normal pregnancy under inadvertent alpha-interferon therapy for chronic hepatitis C [letter] Ruggiero G, et al. **J Hepatol** 1996 May;24(5):646

Prolonged treatment (2 years) with different doses (3 versus 6 MU) of interferon alpha-2b for chronic hepatitis type C. Results of a multicenter randomized trial. Saracco G, et al. **J Hepatol** 1997 Jul;27(1):56–62

Timing of IFN therapy initiation for acute hepatitis C after accidental needlestick [letter] Sata M, et al. **J Hepatol** 1997 Aug;27(2):425–6

Ribavirin enhances the efficacy but not the adverse effects of interferon in chronic hepatitis C. Meta-analysis of individual patient data from European centers. Schalm SW, et al. **J Hepatol** 1997 May;26(5):961–6

The clinical value of grading and staging scores for predicting a long-term response and evaluating the efficacy of interferon therapy in chronic hepatitis C. Shindo M, et al. **J Hepatol** 1997 Mar;26(3):492–7

Interferon-induced "lupoid" thrombocytopenia in chronic hepatitis C [letter] Tappero G, et al. **J Hepatol** 1996 Jan; 24(1):124

Safe switch to beta-interferon treatment of chronic hepatitis C after alpha-interferon-induced autoimmune thrombocytopenia [letter] Tappero G, et al. **J Hepatol** 1996 Aug;25(2):270

Quasispecies nature of hepatitis C virus and response to alpha interferon: significance as a predictor of direct response to interferon. Toyoda H, et al. **J Hepatol** 1997 Jan; 26(1):6–13

Time course of histological changes in patients with a sustained biochemical and virological response to interferon-alpha therapy for chronic hepatitis C virus infection. Tsubota A, et al. **J Hepatol** 1997 Jul;27(1):49–55

Steroid and interferon therapy in liver/kidney microsomal antibody-positive patients with chronic hepatitis C [letter] Vento S, et al. **J Hepatol** 1997 Apr;26(4):955–6

Usefulness of HCV-RNA assays in efficacy evaluation of interferon treatment for chronic hepatitis C: Amplicor HCV assay and branched DNA probe assay. Nomura H, et al. **J Infect** 1997 May;34(3):249–55

Assessment of hepatitis C virus quasispecies heterogeneity by gel shift analysis: correlation with response to interferon therapy. Polyak SJ, et al. **J Infect Dis** 1997 May; 175(5):1101–7

Tolerance and efficacy of subcutaneous interferon-beta administered for treatment of chronic hepatitis C. Castro A, et al. **J Interferon Cytokine Res** 1997 Feb;17(2):65–7

Response of patients with dual hepatitis B virus and C virus infection to interferon therapy. Liaw YF, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):449–52

Mapped auditory evoked potentials before and after interferon treatment. Malaguarnera M, et al. **J Interferon Cytokine Res** 1996 Jun;16(6):441–6

Effect of interferon on GB virus C and hepatitis C virus in hepatitis patients with the cc-infection. Nagayama R, et al. **J Med Virol** 1997 Jun;52(2):156–60

Chronic hepatitis C viral infection in childhood: to treat or not to treat with interferon—that is the question. Rosenthal P. **J Pediatr Gastroenterol Nutr** 1997 Mar;24(3):363–4

Axonal neuropathy in a patient receiving interferon-alpha therapy for chronic hepatitis C [letter] Tambini R, et al. **J Rheumatol** 1997 Aug;24(8):1656–7

Adverse effects of interferon on the cardiovascular system

in patients with chronic hepatitis C. Teragawa H, et al. **Jpn Heart J** 1996 Nov;37(6):905–15

Sequential interferon–alpha and beta treatment in patients with chronic hepatitis C. Miyajima I, et al. **Kansenshogaku Zasshi** 1996 Jul;70(7):690–5

Duration of chronic HCV infection and efficacy of interferon in chronic hepatitis C patients with a history of blood transfusion. The Study Group for Treatment of Hepatitis in the Kyushu Area. Sata M, et al. **Kansenshogaku Zasshi** 1997 May;71(5):405–11

Enhancing effect of the liver extract and flavin adenin dinucleotide mixture on anti–viral efficacy of interferon in patients with chronic hepatitis C. Saito H, et al. **Keio J Med** 1996 Mar;45(1):48–53

Interferon therapy for hepatitis C. Preston H, et al. **Lancet** 1996 Oct 12;348(9033):973–4

Effect of r–interferon alpha administration on hypothalamus–pituitary–thyroid axis in chronic hepatitis. Falaschi P, et al. **Life Sci** 1997;60(1):43–50

A double–blind, placebo–controlled, pilot trial of thymosin alpha 1 for the treatment of chronic hepatitis C. Andreone P, et al. **Liver** 1996 Jun;16(3):207–10

Genotype, serum level of hepatitis C virus RNA and liver histology as predictors of response to interferon–alpha 2a therapy in Japanese patients with chronic hepatitis C. Mizokami M, et al. **Liver** 1996 Feb;16(1):23–7

Clinical use of interferons in hepatology. Civeira MP. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:33–4

Interferon plus ursodeoxycholic acid versus interferon in the treatment of chronic C viral hepatitis. Clerici C, et al. **Minerva Med** 1997 May;88(5):219–25

The treatment of chronic viral hepatitis. Hoofnagle JH, et al. **N Engl J Med** 1997 Jan 30;336(5):347–56 (106 ref.)

Treatment of HCV liver disease by recombinant interferon alpha. Bailly F, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:56–7 (11 ref.)

Interferon treatment for hepatitis C virus infection in patients on haemodialysis. Chan TM, et al. **Nephrol Dial Transplant** 1997 Jul;12(7):1414–9

Effectiveness and tolerance of interferon–alpha 2b in the treatment of chronic hepatitis C in haemodialysis patients. Pol S, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:58–61

Treatment of chronic hepatitis C: another therapeutic option. Trepo C, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:62–4 (9 ref.)

Acute renal failure in kidney transplant patients treated with interferon alpha 2b for chronic hepatitis C. Rostaing L, et al. **Nephron** 1996;74(3):512–6

Case report of a monoclonal gammopathy in a patient with chronic hepatitis: effects of beta–IFN treatment. Gattoni A, et al. **Panminerva Med** 1996 Sep;38(3):175–8

Response of chronic hepatitis C to interferon–alpha treatment and relationship with iron metabolism. Martín–Vivaldi R, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):523–30 **(Eng, Spa)**

Treatment of chronic hepatitis C with interferon–alpha. Clinical histological and virological implications. Olaso V, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):531–50 **(Eng, Spa)**

A comparison between two induction regimes for the interferon treatment of chronic hepatitis C. Response related factors. Pérez R, et al. **Rev Esp Enferm Dig** 1997 Mar;89(3):159–73 **(Eng, Spa)**

Treatment of acute viral hepatitis. Esteban JI. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S49–51

Treatment of chronic hepatitis C. García–Tsao G. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S52–3

Hepatitis C: ribavirin and/or interferon? Heathcote J. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4 Suppl 2):S71–5

Clearance of hepatitis C viral RNA in cirrhotic patients with antiviral therapy. Ono SK, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):180–3

Autoantibodies before, during and after administration of recombinant interferon–alpha for chronic viral hepatitis. Lopes EP, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep–Oct;37(5):455–60 (23 ref.)

Factors influencing the response to interferon therapy in chronic hepatitis C. Studies on viral genotype and induction of 2',5'–oligoadenylate synthetase in the liver and peripheral blood cells. Grandér D, et al. **Scand J Gastroenterol** 1996 Jun;31(6):604–11

Delayed gastric emptying during interferon–alpha therapy in patients with chronic hepatitis C: relief by cisapride. Nishibayashi H, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):547–51

Induction of antinuclear antibody after interferon therapy in patients with type–C chronic hepatitis: its relation to the efficacy of therapy. Noda K, et al. **Scand J Gastroenterol** 1996 Jul;31(7):716–22

Genotype, viral load and age as independent predictors of treatment outcome of interferon–alpha 2a treatment in patients with chronic hepatitis C. Construct group. Bell H, et al. **Scand J Infect Dis** 1997;29(1):17–22

Treatment of chronic hepatitis B and C with alpha interferon in a renal transplant patient. Rostaing L, et al. **Scand J Urol Nephrol** 1996 Dec;30(6):485–7

Clinico–pathological predictive factors of response to interferon therapy in chronic hepatitis C. Thavarungkul P, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar;27(1):85–90

Rapid growth of hepatocellular carcinoma after or during interferon treatment of chronic hepatitis C: report of three cases. Onitsuka A, et al. **Surg Today** 1996;26(2):126–30

Analysis of bronchoalveolar lavage fluid in patients with chronic hepatitis C before and after treatment with interferon alpha. Yamaguchi S, et al. **Thorax** 1997 Jan; 52(1):33–7

Reversible, extremely severe hypothyroidism in a patient with chronic hepatitis C treated with interferon–alpha. Sato K, et al. **Thyroid** 1996 Jun;6(3):249–52

Effectiveness of early alpha–interferon therapy for hepatitis C virus infection recurrence after liver transplantation. Boillot O, et al. **Transpl Int** 1996;9 Suppl 1:S202–3

Interferon alfa–2b in renal transplant recipients with viral chronic hepatitis: a pilot study. Monteon FJ, et al. **Transplant Proc** 1996 Dec;28(6):3306–8

Long–term outcome of recombinant INF–alpha treatment of chronic hepatitis C in kidney transplant recipients. Yasumura T, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):784–6

[The effect of interferon in combination with ribavirin on the plus and minus strands of hepatitis C virus RNA in patients with hepatitis] He Y, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):32–5 (Eng. Abstr.) **(Chi)**

[Treatment of chronic viral hepatitis B and C] Stránský J. **Vnitr Lek** 1997 Jan;43(1):41–4 (12 ref.) **(Cze)**

[Hepatitis C: screening and treatment] **Allerg Immunol (Paris)** 1997 Feb;29(2):50–2 (0 ref.) **(Fre)**

[Consensus Conference. Hepatitis C: screening and treatment. Paris, 16–17 January. Cité des Sciences et de l'Industrie—La Villette—Paris] **Ann Chir** 1997;51(3):212–6 (0 ref.) **(Fre)**

[Natural history of dysthyroidism during interferon treatment of chronic hepatitis C] Mekkakia–Benhabib C, et al. **Ann Endocrinol (Paris)** 1996;57(5):419–27 (Eng. Abstr.) **(Fre)**

[Appearance of antiphospholipid antibodies in patients with hepatitis C treated with interferon–alpha (letter)] Doutre MS, et al. **Ann Med Interne (Paris)** 1997;148(1):99–100 **(Fre)**

[Consensus conference. Short text. Hepatitis C: screening and treatment. Association Française pour l'étude du Foie Société Nationale Française de Gastro–Entérologie et Association Française de Chirurgie Hépato–Biliaire et de Transplantation. Groupe Française d'etude Moléculaire des Hépatites. Club d'Histopathologie Digestive et Hépatique. Société Française d'Immunologie. Société Nationale Française de Médecine Interne. Société Française de Microbiologie] **Gastroenterol Clin Biol** 1997;21(1):45–9 (0 ref.) **(Fre)**

[Hepatitis C: screening and treatment] **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S202–11 **(Fre)**

[Hepatitis C: screening and treatment] **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S213–6 **(Fre)**

[Chronic hepatitis C: therapeutic uncertainties (editorial)] Blondon H, et al. **Gastroenterol Clin Biol** 1996; 20(12):1043–6 **(Fre)**

[Attempted suicide during treatment of chronic viral hepatitis C with interferon. Apropos of 2 cases (letter)] Bourat L, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1063 **(Fre)**

[How should hepatitis C be treated? Treatment of chronic hepatitis C with therapeutic combinations] Brissot P. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S89–95 (66 ref.) **(Fre)**

[Should hepatitis C be treated? Value of hepatic biopsy in the management of patients with chronic hepatitis C virus infection?] Deugnier Y. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S51–6 (41 ref.) **(Fre)**

[Lichen planus and hepatitis C. Heterogeneity in the course of 6 cases treated with interferon alpha (letter)] Doutre MS, et al. **Gastroenterol Clin Biol** 1996;20(8–9):709–10 **(Fre)**

[How should hepatitis C be monitored? Monitoring of treated hepatitis C] Larrey D. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S99–110 (124 ref.) **(Fre)**

[How should hepatitis C be treated? Treatment of hepatitis C with interferon] Marcellin P. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S81–8 (44 ref.) **(Fre)**

[Factors of response to treatment with interferon–alpha in patients with chronic hepatitis C. Therapeutic perspectives] Marcellin P, et al. **Gastroenterol Clin Biol** 1995 Dec; 19(12):991–1000 (86 ref.) **(Fre)**

[Should hepatitis C be treated? What are indications of treatment in chronic hepatitis C?] Pascal JP. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S70–9 (161 ref.) **(Fre)**

[Should hepatitis C be treated? Which biological tests are useful before deciding or refuting a treatment with interferon–alpha in patients with chronic hepatitis C?] Pawlotsky JM. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S41–50 (85 ref.) **(Fre)**

[Chronic hepatitis C: therapeutic uncertainties. The virologist's point of view (editorial)] Pawlotsky JM. **Gastroenterol Clin Biol** 1996;20(12):1047–8 **(Fre)**

[Monitoring of treated or non–treated chronic viral hepatitis C. 2: Criteria of efficacy and monitoring of treatment with interferon–alpha] Payen JL. **Gastroenterol Clin Biol** 1997; 21(1 Pt 2):S175–89 (276 ref.) **(Fre)**

[Should hepatitis C be treated? What are indications of treatment in acute hepatitis C?] Poynard T. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S66–9 (13 ref.) **(Fre)**

[Results of treatment of hepatitis C with interferon alone or combined with other drugs] Serfaty L. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S154–66 (136 ref.) **(Fre)**

[Should hepatitis C be treated?] Tran A. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S148–53 (48 ref.) **(Fre)**

[Hepatitis C] **J Pharm Belg** 1997 May–Jun;52(3):140–1 **(Fre)**

[Treatment of viral hepatitis C] Chassany O. **Presse Med** 1996 Dec 14;25(39):1945–51 (33 ref.) (Eng. Abstr.) **(Fre)**

[Pneumocystis carinii pneumonia in viral hepatitis C treated with interferon alpha 2 et corticoids (letter)] Dhôte R, et al. **Presse Med** 1996 Dec 21;25(40):2047 **(Fre)**

[Treatments of hepatitis C] Trépo C, et al. **Rev Med Interne** 1997;18 Suppl 2:72s–75s (30 ref.) **(Fre)**

[Guidelines for the therapy of hepatitis C (letter)] Blum HE, et al. **Dtsch Med Wochenschr** 1996 Nov 15;121(46):1447 **(Ger)**

[Sarcoidosis in interferon–alpha therapy] Otte HG, et al. **Hautarzt** 1997 Jul;48(7):482–7 (Eng. Abstr.) **(Ger)**

[Interferon–alpha–induced psoriasis vulgaris] Wölfer LU, et al. **Hautarzt** 1996 Feb;47(2):124–8 (Eng. Abstr.) **(Ger)**

[Outcomes research in therapy of chronic hepatitis C] Niederau C, et al. **Internist (Berl)** 1996 Dec;37(12):1225–36 (40 ref.) **(Ger)**

[Therapy of hepatitis C] Alscher DM, et al. **Med Klin** 1997 Mar 15;92(3):147–61 (127 ref.) (Eng. Abstr.) **(Ger)**

[Disappointing response of chronic C hepatitis to interferon] Theodor E, et al. **Harefuah** 1997 Mar 16;132(6):402–3, 447 (Eng. Abstr.) **(Heb)**

[Hepatitis C, therapy and predicting factors] Zamir D, et al. **Harefuah** 1997 May 1;132(9):643–8 (45 ref.) **(Heb)**

[Serum variations of 2 markers of fibrogenesis in chronic hepatitis C treated with alpha interferon] Soresi M, et al. **Recenti Prog Med** 1997 Feb;88(2):73–6 (Eng. Abstr.) **(Ita)**

[Case of C–type chronic hepatitis with manifestation of pituitary insufficiency caused by interferon therapy] Kato K, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10; 85(10):1757–9 **(Jpn)**

[Case of type C chronic hepatitis developing periodic quadriplegia and Basedow's disease during interferon administration] Suzuki T, et al. **Nippon Naika Gakkai Zasshi** 1996 Aug 10;85(8):1295–7 **(Jpn)**

[A case of chorea–like movement induced during interferon treatment of chronic hepatitis C] Yoshikubo S, et al. **Nippon Naika Gakkai Zasshi** 1997 Jun 10;86(6):1036–8 **(Jpn)**

[Interferon treatment for hepatitis G virus infection in patients with chronic hepatitis C] Baba T, et al. **Nippon Rinsho** 1997 Mar;55(3):625–30 (Eng. Abstr.) **(Jpn)**

[The influence of anti–interferon–alpha 2a antibodies in initial daily four–week interferon–alpha 2a therapy for chronic hepatitis C] Habu D, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):319–27 (Eng. Abstr.) **(Jpn)**

[A case of acute pancreatitis induced by interferon therapy for chronic hepatitis C] Ishii Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):148–52 **(Jpn)**

[Successful treatment in a case of type–C fulminant hepatitis with interferon and steroid–pulse therapy, and review of its virological aspects] Marusawa H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Aug;93(8):583–7 **(Jpn)**

[A case of acute pancreatitis induced by interferon therapy for chronic hepatitis C] Motoo Y. **Nippon Shokakibyo Gakkai Zasshi** 1997 Aug;94(8):572 **(Jpn)**

[A case of disseminated intravascular coagulation (DIC) during interferon–alpha treatment of chronic hepatitis C] Sakurazawa T, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jun;94(6):429–33 **(Jpn)**

[Peritonsillar and neck abscess with septicemia during interferon therapy in a patient with chronic hepatitis C] Shirahama M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Apr;94(4):295–9 **(Jpn)**

[Effect of high dose interferon alpha–2b therapy for chronic hepatitis C] Tabaru A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Dec;93(12):903–10 (Eng. Abstr.) **(Jpn)**

[A case of chronic hepatitis complicated by subacute thyroiditis during beta–interferon treatment] Tanabashi S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Jul; 93(7):496–500 **(Jpn)**

[A long–term histological prognosis after IFN therapy for chronic hepatitis C] Terada M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Mar;94(3):163–71 (Eng. Abstr.) **(Jpn)**

[Outcome of the cases of chronic liver disease type C who exhibited long term response to interferon therapy; comparison of the cases with or without serum HCV–RNA] Tohyama H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):813–20 (Eng. Abstr.) **(Jpn)**

[A case of myasthenia gravis which developed myasthenic crisis after alpha–interferon therapy for chronic hepatitis C] Konishi T. **Rinsho Shinkeigaku** 1996 Aug;36(8):980–5 (14 ref.) (Eng. Abstr.) **(Jpn)**

HEPATITIS C

[Parkinsonism in a patient receiving interferon alpha therapy for chronic hepatitis C] Mizoi Y, et al. **Rinsho Shinkeigaku** 1997 Jan;37(1):54–6 (Eng. Abstr.) **(Jpn)**

[Depression during interferon therapy in chronic hepatitis C patients--a prospective study] Otsubo T, et al. **Seishin Shinkeigaku Zasshi** 1997;99(3):101–27 (Eng. Abstr.) **(Jpn)**

[Recombinant interferon alfa in the treatment of chronic hepatitis C] Coelho HS, et al. **Rev Assoc Med Bras** 1995 Sep–Oct;41(5):313–7 (Eng. Abstr.) **(Por)**

[Interferon alfa in the treatment of chronic hepatitis C: course of 24 versus 48 weeks. Results of a randomized trial] Fassio E, et al. **Acta Gastroenterol Latinoam** 1996;26(3):149–53 (Eng. Abstr.) **(Spa)**

[Hypothyroidism as a complication of the treatment of hepatitis C with interferon] Gomollón García F, et al. **An Med Interna** 1996 Sep;13(9):438–40 (Eng. Abstr.) **(Spa)**

[Severe hypertriglyceridemia during the course of treatment with interferon-alpha in a patient with chronic hepatitis C (letter)] Bory E, et al. **Gastroenterol Hepatol** 1996 Dec; 19(10):542 **(Spa)**

[Retrospective multicenter study of the efficacy of interferon alpha in chronic hepatitis C] Salmerón J, et al. **Med Clin (Barc)** 1996 Nov 23;107(18):689–92 (Eng. Abstr.) **(Spa)**

[The treatment of chronic hepatitis C with interferon in patients infected with the human immunodeficiency virus. The Spanish Group for the Study of Viral Hepatitis in HIV+ Patients] Soriano V, et al. **Med Clin (Barc)** 1996 Apr 6;106(13):486–90 (64 ref.) (Eng. Abstr.) **(Spa)**

[Treatment of chronic hepatitis C. Many interrogatives and some answers (editorial)] Ampurdanès S, et al. **Rev Clin Esp** 1996 Oct;196(10):667–9 **(Spa)**

[Proposal of a rule for deciding the therapeutic option in chronic hepatitis C in HIV-infected patients. Spanish Group for the Study of Viral Hepatitis in HIV-infected Patients] Soriano V, et al. **Rev Clin Esp** 1996 Jul; 196(7):488–91 **(Spa)**

[Predictive factors of response to interferon-alpha treatment in chronic hepatitis C (editorial)] Buti M, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):501–2 **(Spa)**

[Thyroid dysfunction in patients with chronic hepatitis C pre and post treatment with interferon] Martín-Vivaldi R, et al. **Rev Esp Enferm Dig** 1996 Jul;88(7):480–4 (Eng. Abstr.) **(Spa)**

[Treatment with interferon alfa-2b in patients with chronic hepatitis caused by hepatitis C virus: predictive factors for the response, relapse and early development to cirrhosis after treatment] Pérez Roldán F, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):609–15 (23 ref.) (Eng. Abstr.) **(Spa)**

TRANSMISSION

Hepatitis C virus and sexual transmission [letter] Worm AM, et al. **Acta Derm Venereol** 1996 May;76(3):249–50

Lack of transmission of hepatitis C in household contacts of children with homozygous beta-thalassaemia. Papanastasiou DA, et al. **Acta Haematol** 1997;97(3):168–73

Frontloading: a risk factor for HIV and hepatitis C virus infection among injecting drug users in Berlin. Stark K, et al. **AIDS** 1996 Mar;10(3):311–7

Transmission of hepatitis C virus between spouses: the important role of exposure duration [see comments] Kao JH, et al. **Am J Gastroenterol** 1996 Oct;91(10):2087–90. Comment in: Am J Gastroenterol 1996 Oct;91(10):2069–70.

Hepatitis C: sexually exposed? [editorial; comment] McCashland TM, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2069–70. Comment on: Am J Gastroenterol 1996 Oct;91(10):2087–90.

What is the risk of acquiring hepatitis C for health care workers and what are the recommendations for prophylaxis and follow-up after occupational exposure to hepatitis C virus? **Am J Infect Control** 1996 Oct;24(5):411–5 (24 ref.)

Acquisition of hepatitis C by a conjunctival splash. Rosen HR. **Am J Infect Control** 1997 Jun;25(3):242–7

Hepatitis C nosocomial infection [letter; comment] Greene ES. **Anaesth Intensive Care** 1997 Feb;25(1):86–7. Comment on: Anaesth Intensive Care 1996 Apr;24(2):169–72.

Revision of the anaesthetic aspects of an infection control policy following reporting of hepatitis C nosocomial infection [see comments] Knoblanche GK. **Anaesth Intensive Care** 1996 Apr;24(2):169–72. Comment in: Anaesth Intensive Care 1996 Aug;24(4):514. Comment in: Anaesth Intensive Care 1997 Feb;25(1):86–7.

Barriers to hepatitis C transmission within breathing systems: efficacy of a pleated hydrophobic filter. Lloyd G, et al. **Anaesth Intensive Care** 1997 Jun;25(3):235–8

Hepatitis C: risk of a haircut [letter] Gitlin N, et al. **Ann Intern Med** 1997 Mar 1;126(5):410–1

Public policy and risk of a haircut [letter] Rehman KL. **Ann Intern Med** 1997 Sep 15;127(6):494

Aedes albopictus (Diptera:Culicidae) is incompetent as a vector of hepatitis C virus. Bellini R, et al. **APMIS** 1997 Apr;105(4):299–302

Hepatitis C infection after blood product transfusion. Kelly DA. **Arch Dis Child** 1996 Nov;75(5):363–5 (52 ref.)

Sexual transmission of the hepatitis C virus and efficacy of prophylaxis with intramuscular immune serum globulin. A randomized controlled trial. Piazza M, et al. **Arch Intern Med** 1997 Jul 28;157(14):1537–44

Infection of pregnant women with hepatitis B and C viruses and risks for vertical transmission. Alvarez-Muñoz MT, et al. **Arch Med Res** 1997 Autumn;28(3):415–9

HCV transmission through blood transfusion: are HCV-RNA titer in donor serum and genotype major determinants of infection outcome? Cardoso MS, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:225–30

Systematic review of role of polymerase chain reaction in defining infectiousness among people infected with hepatitis C virus. Dore GJ, et al. **BMJ** 1997 Aug 9; 315(7104):333–7

Canadians sue over hepatitis C infection [news] Spurgeon D. **BMJ** 1997 Aug 9;315(7104):330

Transmission of hepatitis C virus in allografted patients: use of viral genotyping as an epidemiological marker. Gangneux JP, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1131–3

Hepatitis C virus (HCV) infection in bone marrow transplant patients after transfusions from anti-HCV-positive blood donors. Shuhart MC, et al. **Bone Marrow Transplant** 1996 Apr;17(4):601–6

Risk factor analysis of patients with chronic hepatitis C in Taiwan. Li CP, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Oct; 58(4):275–80

History of posttransfusion hepatitis. Tobler LH, et al. **Clin Chem** 1997 Aug;43(8 Pt 2):1487–93 (47 ref.)

Early therapy with interferon for acute hepatitis C acquired through a needlestick. Noguchi S, et al. **Clin Infect Dis** 1997 May;24(5):992–4

Natural history of perinatal hepatitis C virus infection. Palomba E, et al. **Clin Infect Dis** 1996 Jul;23(1):47–50

Mother-to-infant transmission of hepatitis C virus. Chang MH. **Clin Invest Med** 1996 Oct;19(5):368–72 (29 ref.)

Transmission of the hepatitis C virus in an hemodialysis unit: evidence for nosocomial infection. Olmer M, et al. **Clin Nephrol** 1997 Apr;47(4):263–70

Hepatitis C in dialysis and transplantation. Diego JM, et al. **Curr Opin Nephrol Hypertens** 1996 Nov;5(6):497–503 (94 ref.)

Experimental experience with virus validation studies. Willkommen H. **Dev Biol Stand** 1996;88:317–8

Follow-up studies of hepatitis C association with an intravenous immunoglobulin. Yu MW. **Dev Biol Stand** 1996;88:215–6

Mode of hepatitis C virus infection, epidemiology, and chronicity rate in the general population and risk groups. Tillmann HL, et al. **Dig Dis Sci** 1996 Dec;41(12 Suppl):27S–40S (221 ref.)

Transmission of hepatitis C and prion diseases through digestive endoscopy: evaluation of risk and recommended practices. Ponchon T. **Endoscopy** 1997 Mar;29(3):199–202

Transmission of hepatitis C virus: rates, routes, and cofactors. MacDonald M, et al. **Epidemiol Rev** 1996;18(2):137–48 (104 ref.)

Hepatitis C virus infection in pregnancy and the risk of mother-to-child transmission. Polywka S, et al. **Eur J Clin Microbiol Infect Dis** 1997 Feb;16(2):121–4

HCV transmission in family members of subjects with HCV related chronic liver disease. Demelia L, et al. **Eur J Epidemiol** 1996 Feb;12(1):45–50

Vertical transmission of hepatitis C virus: an epidemiological study on 2,980 pregnant women in Italy. Sabatino G, et al. **Eur J Epidemiol** 1996 Oct;12(5):443–7

Sexual transmission of hepatitis C virus infection. Scotto G, et al. **Eur J Epidemiol** 1996 Jun;12(3):241–4

Risks for transmission of hepatitis C virus during artificial insemination. McKee TA, et al. **Fertil Steril** 1996 Jul; 66(1):161–3

Hepatitis C in asymptomatic blood donors. Alter HJ, et al. **Hepatology** 1997 Sep;26(3 Suppl 1):29S–33S (10 ref.)

Sexual and perinatal transmission of hepatitis C. Dienstag JL. **Hepatology** 1997 Sep;26(3 Suppl 1):66S–70S (41 ref.)

Hepatitis C virus: epidemiology and transmission. Heintges T, et al. **Hepatology** 1997 Sep;26(3):521–6 (95 ref.)

Bloodborne pathogen transmission in health care workers. Risks and prevention strategies. Cardo DM, et al. **Infect Dis Clin North Am** 1997 Jun;11(2):331–46 (90 ref.)

Nosocomial transmission of hepatitis C virus. Schvarcz R, et al. **Infection** 1997 Mar-Apr;25(2):74–7

Heterosexual transmission of hepatitis C virus among married couples in southwestern Japan. Tanaka K, et al. **Int J Cancer** 1997 Jul 3;72(1):50–5

Viral transmission by blood products: a perspective of events covered by the recent tribunal of enquiry into the Irish Blood Transfusion Board [editorial] Yap PL. **Ir Med J** 1997 Apr-May;90(3):84, 86, 88

Low rate of HCV transmission from women infected with contaminated anti-D immunoglobulin to their family contacts. Sachithanandan S, et al. **Ital J Gastroenterol Hepatol** 1997 Feb;29(1):47–50

High incidence of hepatitis C virus infection in hemodialysis patients in units with high prevalence. Pujol FH, et al. **J Clin Microbiol** 1996 Jul;34(7):1633–6

Phylogenetic tree-based epidemiological analysis of hepatitis C virus transmission in a region of Japan with a high prevalence of infection. Hara T, et al. **J Gastroenterol Hepatol** 1996 Jul;11(7):641–5

Hepatitis C transmission between spouses. Koda T, et al. **J Gastroenterol Hepatol** 1996 Nov;11(11):1001–5

Acute hepatitis C transmitted by needlestick accident despite short duration interferon treatment. Nakano Y, et al. **J Gastroenterol Hepatol** 1995 Sep–Oct;10(5):609–11

Mother-to-child transmission of a hepatitis C virus variant with an insertional mutation in its hypervariable region. Aizaki H, et al. **J Hepatol** 1996 Nov;25(5):608–13

Transfusion-associated chronic hepatitis C: alpha-n1 interferon for 6 vs. 12 months. Craxì A, et al. **J Hepatol** 1996 May;24(5):539–46

Co-transmission of hepatitis C and G viruses [letter] Cretel E, et al. **J Hepatol** 1997 Aug;27(2):426

Intrafamily transmission of hepatitis C virus: sexual and non-sexual contacts. Diago M, et al. **J Hepatol** 1996 Aug; 25(2):125–8

Risk factors for HCV infection [letter; comment] Garcia-Bengoechea M, et al. **J Hepatol** 1997 Jan;26(1):217 . Comment on: J Hepatol 1996 Feb;24(2):129–34.

Evolution of hepatitis C virus quasispecies in mothers and infants infected through mother-to-infant transmission. Ni YH, et al. **J Hepatol** 1997 May;26(5):967–74

Risk factors for the transmission of hepatitis C. Zeuzem S, et al. **J Hepatol** 1996;24(2 Suppl):3–10

Study of needlestick accidents and hepatitis C virus infection in healthcare workers by molecular evolutionary analysis. Mizuno Y, et al. **J Hosp Infect** 1997 Feb;35(2):149–54

Lymphocyte reactivity to hepatitis C virus (HCV) antigens shows evidence for exposure to HCV in HCV-seronegative spouses of HCV-infected patients. Bronowicki JP, et al. **J Infect Dis** 1997 Aug;176(2):518–22

Parenteral and sexual transmission of GB virus C and hepatitis C virus among human immunodeficiency virus-positive patients [letter] Fiordalisi G, et al. **J Infect Dis** 1997 Apr;175(4):1025–6

Follow-up of four HIV-infected individuals after administration of hepatitis C virus and GBV-C/hepatitis G virus contaminated intravenous immunoglobulin: evidence for HCV but not for GBV-C/HGV transmission. Berger A, et al. **J Med Virol** 1997 Sep;53(1):25–30

Analysis of mother-to-infant transmission of hepatitis C virus: quasispecies nature and buoyant densities of maternal virus populations. Kudo T, et al. **J Med Virol** 1997 Mar; 51(3):225–30

Importance of sexual transmission of hepatitis C virus in seropositive pregnant women: a case-control study. Salleras L, et al. **J Med Virol** 1997 Jun;52(2):164–7

Acute hepatitis C viral infection during pregnancy: failure of mother to infant transmission. Zuckerman MA, et al. **J Med Virol** 1997 Jun;52(2):161–3

Vertical transmission of hepatitis C: to screen or not to screen [editorial; comment] Zein NN. **J Pediatr** 1997 Jun; 130(6):859–61. Comment on: J Pediatr 1997 Jun;130(6):990–3.

Hepatitis C infection in children who received extracorporeal membrane oxygenation. Nelson SP, et al. **J Pediatr Surg** 1996 May;31(5):644–8

Transmission routes and clinical courses in sporadic acute hepatitis C. Sata M, et al. **J Viral Hepat** 1997 Jul;4(4):273–8

Exposure to hepatitis B and C of tattooists in Victoria in 1984. Thompson SC, et al. **J Viral Hepat** 1997 Mar; 4(2):135–8

From the Centers for Disease Control and Prevention. Transmission of hepatitis C virus infection associated with home infusion therapy for hemophilia. **JAMA** 1997 Oct 1;278(13):1057–8

Hepatitis C virus and intravenous immune globulin [letter; comment] Mosley JW. **JAMA** 1997 Feb 26;277(8):627; discussion 627–8. Comment on: JAMA 1996 Nov 20;276(19):1563–7.

A prospective study of hepatitis C virus infection after needlestick accidents. Arai Y, et al. **Liver** 1996 Oct; 16(5):331–4

Sporadic transmission of hepatitis C. Newman PE. **Med Hypotheses** 1996 Apr;46(4):351–3 (19 ref.)

Household transmission of hepatitis C virus: is there any significant risk? [letter] Catton MG. **Med J Aust** 1997 Mar 17;166(6):333

Hepatitis C transmission on the north coast of New South Wales: explaining the unexplained [see comments] Sladden TJ, et al. **Med J Aust** 1997 Mar 17;166(6):290–3. Comment in: Med J Aust 1997 Mar 17;166(6):284–5.

Illegal drugs policy, AIDS and hepatitis: from prohibition to harm reduction. Oscapella E. **Med Law** 1996;15(3):391–8

Transmission of hepatitis C virus infection associated with home infusion therapy for hemophilia. **MMWR Morb Mortal Wkly Rep** 1997 Jul 4;46(26):597–9

Transmission of the human immunodeficiency virus and the hepatitis C virus [letter; comment] Biron F, et al. **N Engl J Med** 1997 Jul 31;337(5):348–9. Comment on: N Engl J Med 1997 Mar 27;336(13):919–22.

Patient-to-patient transmission of hepatitis C virus during colonoscopy. Bronowicki JP, et al. **N Engl J Med** 1997 Jul 24;337(4):237–40

Simultaneous transmission of human immunodeficiency virus and hepatitis C virus from a needle-stick injury [see comments] Ridzon R, et al. **N Engl J Med** 1997 Mar 27; 336(13):919–22. Comment in: N Engl J Med 1997 Jul 31;337(5):348–9.

Vertical transmission of hepatitis C virus in New Zealand. Croxson M, et al. **N Z Med J** 1997 May 9;110(1043):165–7

Genotype distribution and transmission of hepatitis C virus (HCV) in French haemodialysed patients. Bouchardeau F, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2250–2

Diffusion of HCV through peritoneal membrane in HCV positive patients treated with continuous ambulatory

peritoneal dialysis. Castelnovo C, et al. **Nephrol Dial Transplant** 1997 May;12(5):978–80

Impact of dialysis room and reuse strategies on the incidence of hepatitis C virus infection in haemodialysis units. dos Santos JP, et al. **Nephrol Dial Transplant** 1996 Oct; 11(10):2017–22

Transmission routes of HCV infection in dialysis. Jadoul M. **Nephrol Dial Transplant** 1996;11 Suppl 4:36–8 (25 ref.)

Nosocomial transmission of hepatitis C virus within a British dialysis centre. McLaughlin KJ, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):304–9

Further evidence for nosocomial spread of hepatitis C virus infection in hemodialysis units [letter] Dimković N, et al. **Nephron** 1996;74(2):488

Nosocomial hepatitis C in dialysis units [editorial] Sampietro M, et al. **Nephron** 1996;74(2):251–60 (123 ref.)

Needle pricks in dialysis population [letter] al Shohaib S. **Nephron** 1996;74(2):476

Low risk of hepatitis C transmission by blood products [letter; comment] Buchanan GR, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):260. Comment on: Pediatr Infect Dis J 1996 Jul;15(7):563–75.

Reduction in the incidence of infection by hepatitis C virus in children with acute lymphoblastic leukemia after suspension of sampling from the finger. Dibenedetto SP, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):265–6

Vertical transmission of hepatitis C [letter] Fioredda F, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):642

Analysis of the hypervariable region of hepatitis C virus E2/NS1 gene in an infant infected by blood transfusion. Sugiyama K, et al. **Pediatr Res** 1997 Aug;42(2):247–50

Vertical transmission of hepatitis C virus infection. Fischler B, et al. **Scand J Infect Dis** 1996;28(4):353–6

Hepatitis C virus transmission, 1988–1991, via blood components from donors subsequently found to be anti-HCV-positive. Foberg U, et al. **Scand J Infect Dis** 1996;28(1):21–6

Vertical transmission of hepatitis C virus infection. Gillett P, et al. **Scand J Infect Dis** 1996;28(6):549–52 (44 ref.)

Routes of transmission of hepatitis C virus in an endemic rural area of Japan. Molecular epidemiologic study of hepatitis C virus infection. Noguchi S, et al. **Scand J Infect Dis** 1997;29(1):23–8

Hepatitis E virus infection in individuals at high risk of transmission of non-A, non-B hepatitis and sexually transmitted diseases. Psichogiou M, et al. **Scand J Infect Dis** 1996;28(5):443–5

Transmission of hepatitis C by intrahepatic inoculation with transcribed RNA. Kolykhalov AA, et al. **Science** 1997 Jul 25;277(5325):570–4

Tropical aspects of viral hepatitis. Hepatitis C. Tibbs CJ. **Trans R Soc Trop Med Hyg** 1997 Mar–Apr;91(2):121–4 (32 ref.)

Does GB virus C ('hepatitis G virus') threaten the safety of our blood supply? [editorial] Barbara JA. **Transfus Med** 1997 Jun;7(2):75–6

The incidence/window period model and its use to assess the risk of transfusion-transmitted human immunodeficiency virus and hepatitis C virus infection. Kleinman S, et al. **Transfus Med Rev** 1997 Jul;11(3):155–72 (69 ref.)

Sexual transmission of hepatitis C virus to a repeat blood donor. Capelli C, et al. **Transfusion** 1997 Apr;37(4):436–40

Donor levels of serum alanine aminotransferase activity and antibody to hepatitis B core antigen associated with recipient hepatitis C and non-B, non-C outcomes [published erratum appears in Transfusion 1997 Jan;37(1):109] Mosley JW, et al. **Transfusion** 1996 Sep; 36(9):776–81

Role of screening for hepatitis C virus in children with malignant disease and who undergo bone marrow transplantation. Tada K, et al. **Transfusion** 1997 Jun; 37(6):641–4

A clinical, epidemiological and laboratory study on avoiding the risk of transmitting viral hepatitis during vaccinations with the Dermojet protected by an anticontaminant disposable device. Dimache G, et al. **Vaccine** 1997 Jun; 15(9):1010–3

Sexual transmission of two different HCV types causing acute hepatitis C [letter] Sánchez-Beiza L, et al. **Vox Sang** 1996; 71(4):244–5

Transmission of hepatitis C via both erythrocyte and platelet transfusions from a single donor in serological window-phase of hepatitis C. Widell A, et al. **Vox Sang** 1996;71(1):55–7

Reducing the occupational risk of infections for the surgeon: multicentric national survey on more than 15,000 surgical procedures. Pietrabissa A, et al. **World J Surg** 1997 Jul–Aug;21(6):573–8

[Management of children of mothers with chronic hepatitis C (editorial)] Lacaille F. **Arch Pediatr** 1996 Oct;3(10):951–3 (13 ref.) **(Fre)**

[Attitudes and practices of drug users confronted with the risks of contamination by human immunodeficiency virus (HIV) and hepatitis B and C viruses] Ingold FR, et al. **Bull Acad Natl Med** 1997 Mar 18;181(3):555–67; discussion 567–8 (Eng. Abstr.) **(Fre)**

[Follow-up of blood donors with positive serology for hepatitis C virus and their recipients is insufficient] Bonaguidi-Magniaux M, et al. **Gastroenterol Clin Biol** 1996; 20(8–9):663–8 (Eng. Abstr.) **(Fre)**

[What are the precautions to be taken in hepatitis C?] Couzigou P. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S111–20 (137 ref.) **(Fre)**

[Prevalence of serum anti-hepatitis C virus antibodies and risk factors of contamination in the personnel of a hospital in the Paris region. A prospective survey] Maillard MF, et al. **Gastroenterol Clin Biol** 1996;20(12):1053–7 (Eng. Abstr.) **(Fre)**

[What are the precautions to be taken in hepatitis C?] Ouzan D. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S190–201 (129 ref.) **(Fre)**

[Should hepatitis C be screened? Risk factors of transmission of hepatitis C virus] Zarski JP, et al. **Gastroenterol Clin Biol** 1997;21(1 Pt 2):S4–10 (106 ref.) **(Fre)**

[Methods of hepatitis C virus transmission] Delwaide J, et al. **Rev Med Liege** 1997 Jun;52(6):388–91 (22 ref.) **(Fre)**

[Rationale for a trial of prevention of perinatal transmission of hepatitis C via specific immunoglobulins] Soulié JC. **Transfus Clin Biol** 1997;4(2):213–9 (46 ref.) (Eng. Abstr.) **(Fre)**

[Expanded serologic infection testing of autologous blood donors: a report of experiences] Zimmermann R, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:196–200 (Eng. Abstr.) **(Ger)**

[Chronic transfusion hepatitis--an underestimated disease] Henschel M, et al. **Med Klin** 1996 Jul 15;91(7):438–41 (Eng. Abstr.) **(Ger)**

[Risk to patients by virus-infected physicians? (editorial)] Hofmann H. **Wien Klin Wochenschr** 1996;108(17):527–29 **(Ger)**

[Obstetric aspects of maternal hepatitis C infection] Herzog S, et al. **Z Geburtshilfe Neonatol** 1996 Nov–Dec; 200(6):227–31 (22 ref.) (Eng. Abstr.) **(Ger)**

[How great is the risk of personal contact in the transmission of hepatitis C virus infection?] Gervain J, et al. **Orv Hetil** 1997 Mar 9;138(10):607–9 (29 ref.) (Eng. Abstr.) **(Hun)**

[Hepatitis C and dentistry. Review of the literature] Lodi L, et al. **Minerva Stomatol** 1996 Jun;45(6):253–8 (52 ref.) (Eng. Abstr.) **(Ita)**

[Epidemiologic and clinical characteristics of patients with hepatitis type C on the bases of selected parameters] Warunek W, et al. **Folia Med Cracov** 1996;37(3–4):71–9 (Eng. Abstr.) **(Pol)**

[Transfusion aspects of viral hepatitis C] Erceg S, et al. **Med Pregl** 1996;49(9–10):394–7 (Eng. Abstr.) **(Scr)**

[Transmission of viral hepatitis from the physician to the patient: an exceptional circumstance (editorial)] Bruguera M. **Med Clin (Barc)** 1997 Apr 12;108(14):537–8 **(Spa)**

[Transmission routes of hepatitis C virus in carrier patients and study of family contacts] Sánchez Beiza ML, et al. **Rev Clin Esp** 1997 Apr;197(4):220–4 (Eng. Abstr.) **(Spa)**

[Intrafamilial transmission of the hepatitis C virus (letter; comment)] García Bengoechea M, et al. **Rev Esp Enferm Dig** 1997 May;89(5):412–3. Comment on: Rev Esp Enferm Dig 1996 May;88(5):340–3. **(Spa)**

[Transmission of hepatitis C by factor concentrates (letter)] Aguilar C, et al. **Sangre (Barc)** 1996 Apr;41(2):160–1 **(Spa)**

URINE

Abnormal urinary coproporphyrin levels in patients infected by hepatitis C virus with or without human immunodeficiency virus. A study of 177 patients [see comments] Cribier B, et al. **Arch Dermatol** 1996 Dec; 132(12):1448–52. Comment in: Arch Dermatol 1996 Dec;132(12):1503–4.

Type of impaired porphyrin metabolism caused by hepatitis C virus is not porphyria cutanea tarda but chronic hepatic porphyria [letter] Gomi H, et al. **Arch Dermatol** 1997 Sep; 133(9):1170–1

Urinary transforming growth factor beta1 levels in hepatitis C virus-related chronic liver disease: correlation between high levels and severity of disease. Tsai JF, et al. **Hepatology** 1997 May;25(5):1141–6

VETERINARY

Lack of susceptibility of the cottontop tamarin to hepatitis C infection. Garson JA, et al. **J Med Virol** 1997 Jul; 52(3):286–8

VIROLOGY

Relationship between response to interferon therapy and detection of hepatitis C virus RNA by differential flotation centrifugation. Wato M, et al. **Acta Med Okayama** 1996 Jun;50(3):139–44

Comparison of quantitative HCV RNA assays in chronic hepatitis C. Jacob S, et al. **Am J Clin Pathol** 1997 Mar; 107(3):362–7

Early loss of serum hepatitis C virus RNA can predict a sustained response to interferon therapy in patients with chronic hepatitis C. Karino Y, et al. **Am J Gastroenterol** 1997 Jan;92(1):61–5

Patterns of hepatitis C viremia in patients receiving hemodialysis. Umlauft F, et al. **Am J Gastroenterol** 1997 Jan;92(1):73–8

Correlation of hepatitis C virus antibodies with viremia [letter] Feucht HH, et al. **Ann Intern Med** 1997 Apr 15; 126(8):666–7

Selection of hepatitis C virus quasispecies during interferon treatment. Sakuma I, et al. **Arch Virol** 1996;141(10):1921–32

Variability of the envelope regions of HCV in European isolates and its significance for diagnostic tools. Roggendorf M, et al. **Arch Virol Suppl** 1993;7:27–39

Hepatitis C genotypes in Australian haemophilia patients. Baker RI, et al. **Aust N Z J Med** 1996 Dec;26(6):789–92

The complete coding sequence of hepatitis C virus genotype 5a, the predominant genotype in South Africa. Chamberlain RW, et al. **Biochem Biophys Res Commun** 1997 Jul 9; 236(1):44–9

Distinct composition of viral quasispecies between ascites and serum samples from patients with late stage chronic hepatitis C. Yeh CT, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):524–9

Quantification of hepatitis C virus-infected peripheral blood mononuclear cells by in situ reverse transcriptase-polymerase chain reaction. Muratori L, et al. **Blood** 1996 Oct 1;88(7):2768–74

Hepatitis C virus genotypes and liver disease in patients undergoing allogeneic bone marrow transplantation. Locasciulli A, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):237–40

Immunohistochemical detection of hepatitis C virus related C100-3 and core antigens in formalin-fixed liver tissue. Chamlian A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):557–66

Immunohistochemical detection and significance of hepatitis C virus antigen. Zhao X, et al. **Chin Med J (Engl)** 1996 Jun;109(6):486–8

Hepatitis C genotypes in Finland determined by RFLP. Pohjanpelto P, et al. **Clin Diagn Virol** 1996 Oct;7(1):7–16

Hepatitis C virus genotypes in hemodialyzed patients: a multicentric study. Goessens C, et al. **Clin Nephrol** 1997 Jun;47(6):367–71

PCR detected hepatitis C virus genome in the brain of a case with progressive encephalomyelitis with rigidity. Bolay H, et al. **Clin Neurol Neurosurg** 1996 Nov;98(4):305–8

cDNA sequencing of the 5' noncoding region (5' NCR) to determine hepatitis C genotypes in patients with chronic hepatitis C. O'Brien CB, et al. **Dig Dis Sci** 1997 May; 42(5):1087–93

Relationship between pretreatment viremia level and response to interferon-alpha therapy in chronic hepatitis C differs in viral type 1 and 2 infections. Tsubota A, et al. **Dig Dis Sci** 1996 Oct;41(10):1925–32

No significant changes in levels of hepatitis C virus (HCV) RNA by competitive polymerase chain reaction in blood samples from patients with chronic HCV infection. Yoshimura E, et al. **Dig Dis Sci** 1997 Apr;42(4):772–7

Predominance of hepatitis C virus genotype 1b in Bulgaria [letter] Andonov A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):521–3

Viral replication in patients with concomitant hepatitis B and C virus infections. Crespo J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):445–51

Prevalence of hepatitis B and C viruses infection in chronic alcoholics with or without liver disease in Ioannina, Greece: low incidence of HCV infection. Dalekos GN, et al. **Eur J Epidemiol** 1996 Feb;12(1):21–5

Early negative tests for serum HCV RNA as a predictor of sustained response to interferon therapy in patients with chronic hepatitis C [comment] Marcellin P, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):237–8. Comment on: Eur J Gastroenterol Hepatol 1997 Mar;9(3):245–9.

Significance of early measurement of serum hepatitis C virus RNA in predicting response to interferon therapy in patients with chronic hepatitis C [see comments] Toyoda H, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):245–9 . Comment in: Eur J Gastroenterol Hepatol 1997 Mar;9(3):237–8.

GB virus C RNA in serum, liver, and peripheral blood mononuclear cells from patients with chronic hepatitis B, C, and D. Madejón A, et al. **Gastroenterology** 1997 Aug; 113(2):573–8

Lack of correlation between hepatitis C virus genotypes and clinical course of hepatitis C virus-related cirrhosis. Benvegnù L, et al. **Hepatology** 1997 Jan;25(1):211–5

Hepatitis C virus 1b, cirrhosis, and hepatocellular carcinoma [editorial; comment] Brechot C. **Hepatology** 1997 Mar; 25(3):772–4. Comment on: Hepatology 1997 Mar;25(3):754–8.

Hepatitis C virus genotypes and risk of hepatocellular carcinoma in cirrhosis: a prospective study [see comments] Bruno S, et al. **Hepatology** 1997 Mar;25(3):754–8. Comment in: Hepatology 1997 Mar;25(3):772–4.

Pretreatment virus load and multiple amino acid substitutions in the interferon sensitivity-determining region predict the outcome of interferon treatment in patients with chronic genotype 1b hepatitis C virus infection [see comments] Chayama K, et al. **Hepatology** 1997 Mar;25(3):745–9. Comment in: Hepatology 1997 Mar;25(3):769–71.

Hepatitis G virus co-infection in liver transplantation recipients with chronic hepatitis C and nonviral chronic liver disease. Fried MW, et al. **Hepatology** 1997 May; 25(5):1271–5

Hepatitis C viral quasispecies and liver damage in patients with chronic hepatitis C virus infection. Hayashi J, et al. **Hepatology** 1997 Mar;25(3):697–701

Cytotoxic T lymphocyte response and viral load in hepatitis C virus infection. Hiroishi K, et al. **Hepatology** 1997 Mar; 25(3):705–12

Analysis of genotypes and amino acid residues 2209 to 2248

of the NS5A region of hepatitis C virus in relation to the response to interferon-beta therapy [see comments] Kurosaki M, et al. **Hepatology** 1997 Mar;25(3):750–3. Comment in: Hepatology 1997 Mar;25(3):769–71.

Dose-dependent acute clearance of hepatitis C genotype 1 virus with interferon alfa. Lam NP, et al. **Hepatology** 1997 Jul;26(1):226–31

The 18th United States-Japan Joint Hepatitis Panel Meeting. Lemon SM, et al. **Hepatology** 1997 May;25(5):1287–91

Detection of hepatitis GB virus type C RNA in serum and liver from children with chronic viral hepatitis B and C. López-Alcorocho JM, et al. **Hepatology** 1997 May; 25(5):1258–60

The molecular virology of hepatitis C. Major ME, et al. **Hepatology** 1997 Jun;25(6):1527–38 (163 ref.)

Prevalence of herpesviridae and hepatitis B virus DNA in the liver of patients with non-A, non-B fulminant hepatic failure. Mason A, et al. **Hepatology** 1996 Dec;24(6):1361–5

Analysis of histopathological manifestations of chronic hepatitis C virus infection with respect to virus genotype. Mihm S, et al. **Hepatology** 1997 Mar;25(3):735–9

Acute sporadic non-A, non-B, non-C, non-D, non-D, non-E hepatitis. Rochling FA, et al. **Hepatology** 1997 Feb; 25(2):478–83

Liver injury associated with hepatitis C infection: is it the virus or is it the host? Thiele DL. **Hepatology** 1997 Jul; 26(1):238–9

Relation of disease activity during chronic hepatitis C infection to complexity of hypervariable region 1 quasispecies. Yuki N, et al. **Hepatology** 1997 Feb; 25(2):439–44

Phylogenetic analysis of hepatitis C virus isolates and their correlation to viremia, liver function tests, and histology [see comments] Zeuzem S, et al. **Hepatology** 1996 Nov; 24(5):1003–9. Comment in: Hepatology 1997 Aug;26(2):514–5.

Severity of liver disease in liver transplantation recipients with hepatitis C virus infection: relationship to genotype and level of viremia. Zhou S, et al. **Hepatology** 1996 Nov; 24(5):1041–6

Hepatitis C virus is not recoverable from liver tissue in cryptogenic cirrhosis: failure to identify hepatitis C virus-RNA using reverse transcription-mediated polymerase chain reaction. Geller SA, et al. **Hum Pathol** 1996 Nov;27(11):1161–5

Quantitation of HCV viraemia by branched DNA signal amplification in patients treated with alpha-interferon--a longitudinal study. Iuliano R, et al. **Infection** 1996 Jul-Aug; 24(4):292–6

Hepatitis C virus 1b is the dominant genotype in HCV-related carcinogenesis: a case-control study. Hatzakis A, et al. **Int J Cancer** 1996 Sep 27;68(1):51–3

Chronic hepatitis infected with hepatitis GB virus type C/hepatitis G virus presenting as non-alcoholic steatohepatitis [see comments] Saito H, et al. **Intern Med** 1997 Apr;36(4):283–8. Comment in: Intern Med 1997 Apr;36(4):236–7.

Variations in the hypervariable region 1 of the envelope region E2 of hepatitis C virus RNA appear associated with virus persistence independently of liver disease. Brunetto MR, et al. **Ital J Gastroenterol** 1996 Dec;28(9):499–504

Viral hepatitis in older adults. Marcus EL, et al. **J Am Geriatr Soc** 1997 Jun;45(6):755–63 (108 ref.)

Serum hepatitis C virus titers in the progression of type C chronic liver disease. With special emphasis on patients with type 1b infection. Kao JH, et al. **J Clin Gastroenterol** 1996 Dec;23(4):280–3

Single-step PCR in molecular diagnosis of hepatitis C virus infection. Farma E, et al. **J Clin Microbiol** 1996 Dec; 34(12):3171–4

Comparison of plasma virus loads among individuals infected with hepatitis C virus (HCV) genotypes 1, 2, and 3 by quantiplex HCV RNA assay versions 1 and 2, Roche Monitor assay, and an in-house limiting dilution method. Hawkins A, et al. **J Clin Microbiol** 1997 Jan;35(1):187–92

Genotypic distribution of hepatitis C virus in different regions of Thailand. Kanistanon D, et al. **J Clin Microbiol** 1997 Jul;35(7):1772–6

Subtype 2c of hepatitis C virus is highly prevalent in Italy and is heterogeneous in the NS5A region. Maggi F, et al. **J Clin Microbiol** 1997 Jan;35(1):161–4

Concordance of hepatitis C virus typing methods based on restriction fragment length polymorphism analysis in 5' noncoding region and NS4 serotyping, but not in core PCR or a line probe assay. Navas S, et al. **J Clin Microbiol** 1997 Jan;35(1):317–21

New hepatitis C virus (HCV) genotyping system that allows for identification of HCV genotypes 1a, 1b, 2a, 2b, 3a, 3b, 4, 5a, and 6a. Ohno O, et al. **J Clin Microbiol** 1997 Jan; 35(1):201–7

Serological determination of hepatitis C virus genotype: comparison with a standardized genotyping assay. Pawlotsky JM, et al. **J Clin Microbiol** 1997 Jul;35(7):1734–9

Determination of genotypes of hepatitis C virus in Venezuela by restriction fragment length polymorphism. Pujol FH, et al. **J Clin Microbiol** 1997 Jul;35(7):1870–2

Hepatitis C virus genotypes in northern Italy: clinical and virological features. Ravaggi A, et al. **J Clin Microbiol** 1996 Nov;34(11):2822–5

Indeterminate results of the second-generation hepatitis C virus (HCV) recombinant immunoblot assay: significance of high-level c22-3 reactivity and influence of HCV genotypes. Zein NN, et al. **J Clin Microbiol** 1997 Jan; 35(1):311–2

Non Hepatitis viruses in causation of acute sporadic non-A, non-B viral hepatitis. Prakash C, et al. **J Commun Dis** 1996 Sep;28(3):185–8

Response to interferon in chronic hepatitis C due to mixed genotype infection. Horiike N, et al. **J Gastroenterol Hepatol** 1996 Apr;11(4):353–7

Long-term evolution of the 5'UTR and a region of NS4 containing a CTL epitope of hepatitis C virus in two haemophilic patients. Devereux HL, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):583–90

Analysis of hepatitis C virus quasispecies populations by temperature gradient gel electrophoresis. Lu M, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):881–7

Differences in hepatitis C virus quasispecies composition between liver, peripheral blood mononuclear cells and plasma. Maggi F, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1521–5

Hepatitis C virus core protein induces hepatic steatosis in transgenic mice. Moriya K, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1527–31

Heterogeneity of hepatitis C virus genotype 2 variants in West Central Africa (Guinea Conakry). Ruggieri A, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2073–6

Evolutionary analysis of variants of hepatitis C virus found in South-East Asia: comparison with classifications based upon sequence similarity. Simmonds P, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3013–24

Quantitative liver parameters of HCV infection: relation to HCV genotypes, viremia and response to interferon treatment. Ballardini G, et al. **J Hepatol** 1997 Apr; 26(4):779–86

Low hepatitis C viremia levels in patients with anti-liver/kidney microsomal antibody type 1 positive chronic hepatitis. Giostra F, et al. **J Hepatol** 1996 Oct; 25(4):433–8

Serum HCV RNA levels assessed by quantitative NASBA: stability of viral load over time, and lack of correlation with liver disease. The Trent HCV Study Group. Hollingsworth RC, et al. **J Hepatol** 1996 Sep;25(3):301–6

Mutations of hepatitis C virus 1b NS5A 2209-2248 amino acid sequence do not predict the response to recombinant interferon-alfa therapy in French patients. Khorsi H, et al. **J Hepatol** 1997 Jul;27(1):72–7

HCV genotypes in patients with liver disease of different stages and severity. Mangia A, et al. **J Hepatol** 1997 Jun; 26(6):1173–8

Biological and clinicopathological features associated with hepatitis C virus type 5 infections. Murphy DG, et al. **J Hepatol** 1996 Jan;24(1):109–13

Unexpected high prevalence of hepatitis C virus genotype 4 in Southern Spain. Sánchez-Quijano A, et al. **J Hepatol** 1997 Jul;27(1):25–9

Effect of immunosuppression on composition of quasispecies population of hepatitis C virus in patients with chronic hepatitis C coinfected with human immunodeficiency virus. Toyoda H, et al. **J Hepatol** 1997 May;26(5):975–82

Surreptitious hepatitis C virus (HCV) infection detected in the majority of patients with cryptogenic chronic hepatitis and negative HCV antibody tests. Schmidt WN, et al. **J Infect Dis** 1997 Jul;176(1):27–33

HCV genotypes in Morocco. Benani A, et al. **J Med Virol** 1997 Aug;52(4):396–8

Nosocomial transmission of hepatitis C virus in haemodialysis patients. de Lamballerie X, et al. **J Med Virol** 1996 Aug; 49(4):296–302

Clinical significance of hepatitis C viral RNA status and its correlation to antibodies to structural HCV antigens in anti-HCV reactive patients with normal liver tests. Fong TL, et al. **J Med Virol** 1996 Jul;49(3):253–8

Evaluation of a pooling method for routine anti-HCV screening of blood donors to lower the cost burden on blood banks in countries under development. García Z, et al. **J Med Virol** 1996 Jul;49(3):218–22

Clinical implications of viral quasispecies heterogeneity in chronic hepatitis C. González-Peralta RP, et al. **J Med Virol** 1996 Jul;49(3):242–7

Serotyping and genotyping of hepatitis C virus (HCV) strains in chronic HCV infection. Commission Hepatologie du CREGG. Club de Reflexion des Cabinets de Groupes en GastroEnterologie. Halfon P, et al. **J Med Virol** 1997 Aug; 52(4):391–5

Superinfection by homotypic virus in hepatitis C virus carriers: studies on patients with post-transfusion hepatitis. Kao JH, et al. **J Med Virol** 1996 Dec;50(4):303–8

Positive and negative strand of hepatitis C virus RNA sequences in peripheral blood mononuclear cells in patients with chronic hepatitis C: no correlation with viral genotypes 1b, 2a, and 2b. Kao JH, et al. **J Med Virol** 1997 Jul;52(3):270–4

Molecular analysis of mixed infection with hepatitis C virus and human immunodeficiency virus in a patient infected simultaneously. Mazza C, et al. **J Med Virol** 1996 Nov; 50(3):276–82

Detection and genotyping of the hepatitis C RNA in tear fluid from patients with chronic hepatitis C. Mendel I, et al. **J Med Virol** 1997 Mar;51(3):231–3

Risk factors associated with hepatitis C virus (HCV) infection among prostitutes and their clients in the city of Santos, São Paulo State, Brazil. Mesquita PE, et al. **J Med Virol** 1997 Apr;51(4):338–43

Changes in hepatitis C virus quasispecies and density populations in patients before and after interferon therapy. Nagasaka A, et al. **J Med Virol** 1996 Nov;50(3):214–20

B-cell epitopes in hypervariable region 1 of hepatitis C virus obtained from patients with chronic persistent hepatitis. Nakamoto Y, et al. **J Med Virol** 1996 Sep;50(1):35–41

Hepatitis C (HCV) genotype and viral titer distribution among Argentinean hemophilic patients in the presence or absence of human immunodeficiency virus (HIV) co-infection. Picchio GR, et al. **J Med Virol** 1997 Jun; 52(2):219–25

Hepatitis C genotypes in patients with dual hepatitis B and C virus infection. Pontisso P, et al. **J Med Virol** 1996 Feb; 48(2):157–60

Detection and clinical features of hepatitis C virus type 6 infections in blood donors from Hong Kong. Prescott LE, et al. **J Med Virol** 1996 Oct;50(2):168–75

Comparison of prevalence of anti-hepatitis C virus antibodies in differing South American populations. Robinson JW, et al. **J Med Virol** 1996 Oct;50(2):188–92

Comparison of HCV RNA assays for the detection and quantification of hepatitis C virus RNA levels in serum of patients with chronic hepatitis C treated with interferon. Trabaud MA, et al. **J Med Virol** 1997 May;52(1):105–12

Serological and molecular analysis of hepatitis C virus envelope regions 1 and 2 during acute and chronic infections in chimpanzees. van Doorn LJ, et al. **J Med Virol** 1997 Aug;52(4):441–50

Infection with GB virus C and hepatitis C virus in hemodialysis patients and blood donors in Beijing. Wang Y, et al. **J Med Virol** 1997 May;52(1):26–30

The distribution of hepatitis C virus genotypes in Turkish patients. Abacioglu YH, et al. **J Viral Hepat** 1995; 2(6):297–301

Risk of hepatitis C virus infection among household contacts of Saudi patients with chronic liver disease. Arif M, et al. **J Viral Hepat** 1996 Mar;3(2):97–101

Absence of double-stranded replicative forms of HCV RNA in liver tissue from chronically infected patients. Blight K, et al. **J Viral Hepat** 1996 Jan;3(1):29–36

Treatment of chronic hepatitis C with interferon-alpha by monitoring the response according to viraemia. Bonetti P, et al. **J Viral Hepat** 1997 Mar;4(2):107–12

Hepatitis C virus genotypes in chronic hepatitis C of children. Bortolotti F, et al. **J Viral Hepat** 1996 Nov;3(6):323–7

Development of a quantitative PCR assay for monitoring HCV viraemia levels in patients with chronic hepatitis C. Colucci G, et al. **J Viral Hepat** 1997;4 Suppl 1:75–8

Hepatitis C virus genotypes in patients with chronic liver disease and haemodialysis patients from Saudi Arabia. al-Faleh FZ, et al. **J Viral Hepat** 1995;2(6):293–6

Genotypes and multiple infections with hepatitis C virus in patients with haemophilia A in Japan. Fujimura Y, et al. **J Viral Hepat** 1996 Mar;3(2):79–84

Modulation of hepatitis C virus quasispecies heterogeneity by interferon-alpha and ribavirin therapy. González-Peralta RP, et al. **J Viral Hepat** 1997 Mar; 4(2):99–106

Hepatitis C virus RNA quantification in right and left lobes of the liver in patients with chronic hepatitis C. Idrovo V, et al. **J Viral Hepat** 1996 Sep;3(5):239–46

Virus and host factors are both important determinants of response to interferon treatment among patients with chronic hepatitis C. Lin R, et al. **J Viral Hepat** 1996 Mar; 3(2):85–96

Hepatitis C virus infection and mixed cryoglobulinaemia: assessment of HCV RNA copy numbers in supernatant, cryoprecipitate and non-liver cells. Manzin A, et al. **J Viral Hepat** 1996 Nov;3(6):285–92

Variations of hepatitis C virus NS5B sequence (nucleotides 8261–8566) do not correlate with response to interferon-alpha therapy. Nelson DR, et al. **J Viral Hepat** 1995;2(6):285–92

Fluctuations in viral load (HCV RNA) are relatively insignificant in untreated patients with chronic HCV infection. Nguyen TT, et al. **J Viral Hepat** 1996 Mar; 3(2):75–8

Lack of association between type of hepatitis C virus, serum load and severity of liver disease. Romeo R, et al. **J Viral Hepat** 1996 Jul;3(4):183–90

Investigation of the pattern of diversity of hepatitis C virus in relation to times of transmission. Simmonds P, et al. **J Viral Hepat** 1997;4 Suppl 1:69–74 (13 ref.)

Stability of hepatitis C virus RNA in serum from samples collected in a closed-tube system for serum separation and transport, as measured by a quantitative competitive PCR assay. Trabaud MA, et al. **J Viral Hepat** 1996 Jul;3(4):207–9

Structure of replicating hepatitis C virus (HCV) quasispecies in the liver may not be reflected by analysis of circulating HCV virions. Cabot B, et al. **J Virol** 1997 Feb;71(2):1732–4

Tracking hepatitis C virus quasispecies major and minor variants in symptomatic and asymptomatic liver transplant recipients. Gretch DR, et al. **J Virol** 1996 Nov; 70(11):7622–31

Antisense oligonucleotide inhibition of hepatitis C virus gene expression in transformed hepatocytes. Hanecak R, et al. **J Virol** 1996 Aug;70(8):5203–12

Elimination of hepatitis C virus RNA in infected human hepatocytes by adenovirus-mediated expression of ribozymes. Lieber A, et al. **J Virol** 1996 Dec;70(12):8782–91

Lack of correlation between different hepatitis C virus screening and confirmatory assays. Berger A, et al.

J Virol Methods 1996 May;59(1-2):141-6
Direct blotting electrophoresis for sequencing and genotyping hepatitis C virus. Castelain S, et al. **J Virol Methods** 1997 May;65(2):237-43
International collaborative study on the second EUROHEP HCV-RNA reference panel. Damen M, et al. **J Virol Methods** 1996 Apr 26;58(1-2):175-85
Serologically defined genotypes of hepatitis C virus among Japanese patients with chronic hepatitis C. Mizoguchi N, et al. **J Virol Methods** 1996 Apr 26;58(1-2):71-9
Sequence-specific, single-primer amplification and detection of PCR products for identification of hepatitis viruses. Nainan OV, et al. **J Virol Methods** 1996 Sep;61(1-2):127-34
A second-generation method of genotyping hepatitis C virus by the polymerase chain reaction with sense and antisense primers deduced from the core gene. Okamoto H, et al. **J Virol Methods** 1996 Mar;57(1):31-45
Quasispecies analysis in hepatitis C virus infection by fluorescent single strand conformation polymorphism. Peters T, et al. **J Virol Methods** 1997 Feb;64(1):95-102
Hepatitis C virus genotypes in Korea and their relationship to clinical outcome in type C chronic liver diseases. Han CJ, et al. **Korean J Intern Med** 1997 Jan;12(1):21-7
Incidence of post-transfusion hepatitis in Taiwan before and after introduction of anti-HCV testing. Chang TT, et al. **Liver** 1996 Jun;16(3):201-6
Antimitochondrial antibodies in patients with chronic hepatitis C. Grimbert S, et al. **Liver** 1996 Jun;16(3):161-5
Distribution of hepatitis C virus RNA in the liver and its relation to histopathological changes. Kojima S, et al. **Liver** 1996 Feb;16(1):55-60
Genotype, serum level of hepatitis C virus RNA and liver histology as predictors of response to interferon-alpha 2a therapy in Japanese patients with chronic hepatitis C. Mizokami M, et al. **Liver** 1996 Feb;16(1):23-7
Genotype analysis of hepatitis C virus among blood donors and inmates in Metro Manila, The Philippines. Katayama Y, et al. **Microbiol Immunol** 1996;40(7):525-9
Sequence variation of the hypervariable region in HCV carriers with normal ALT levels: a comparison with symptomatic carriers. Murashima S, et al. **Microbiol Immunol** 1996;40(12):941-7
A simplified semiquantitative determination of hepatitis C virus genome molecules by the end-point dilution method. Bathelier C, et al. **Mol Cell Probes** 1996 Dec;10(6):477-80
Diffusion of HCV through peritoneal membrane in HCV positive patients treated with continuous ambulatory peritoneal dialysis. Castelnovo C, et al. **Nephrol Dial Transplant** 1997 May;12(5):978-80
Hepatitis C virus genotype in anti-HCV-positive hemodialysed patients. Colleoni N, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2258-64
Is hepatitis C virus RNA detectable in dialysis ultrafiltrate? [letter] Manzini P, et al. **Nephron** 1996;72(1):102-3
Hepatitis B virus HBx protein sensitizes cells to apoptotic killing by tumor necrosis factor alpha. Su F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8744-9
Transcripts from a single full-length cDNA clone of hepatitis C virus are infectious when directly transfected into the liver of a chimpanzee. Yanagi M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8738-43
Hepatitis C virus infection. Biological and immunological features. Fiore G, et al. **Recenti Prog Med** 1996 Jun; 87(6):301-7 (37 ref.)
Anti-HCV seroprevalence and risk factors of hepatitis C virus infection in Moroccan population groups. Benjelloun S, et al. **Res Virol** 1996 Jul-Aug;147(4):247-55
Quantification of hepatitis C virus RNA in peripheral blood mononuclear cells: a comparison between patients chronically infected by HCV and patients coinfected by HIV. Cribier B, et al. **Res Virol** 1996 Nov-Dec; 147(6):325-32
Dynamics of viral quasispecies in hepatitis C virus infection. Manzin A, et al. **Res Virol** 1997 Mar-Apr;148(2):171-6
Molecular epidemiology of hepatitis C virus infection at Ga-Rankuwa Hospital. Sithebe NP, et al. **S Afr Med J** 1996 Dec;86(12):1543-5
Influence of viral genotype and level of viremia on the severity of liver injury and the response to interferon therapy in Spanish patients with chronic C infection. Fernández I, et al. **Scand J Gastroenterol** 1997 Jan; 32(1):70-6
Distribution of hepatitis C virus genotypes in Slovenia. Seme K, et al. **Scand J Infect Dis** 1997;29(1):29-31
Transmission of hepatitis C by intrahepatic inoculation with transcribed RNA. Kolykhalov AA, et al. **Science** 1997 Jul 25;277(5325):570-4
Histopathology and detection of hepatitis C virus in liver. Scheuer PJ, et al. **Springer Semin Immunopathol** 1997; 19(1):27-45 (119 ref.)
Hepatitis C virus genotypes and reinfection of the graft during long-term follow-up in 35 liver transplant recipients. Caccamo L, et al. **Transpl Int** 1996;9 Suppl 1:S204-9
Infection of circulating and liver infiltrating T cells by hepatitis C virus of different subtypes. Artini M, et al. **Viral Immunol** 1995;8(2):63-73
Detection and typing of hepatitis C RNA in liver biopsies and its relation to histopathology. Cathomas G, et al. **Virchows Arch** 1996 Dec;429(6):353-8
Hepatitis C virus genomic variability in untreated and immunosuppressed patients. Lawal Z, et al. **Virology** 1997 Feb 3;228(1):107-11
Typing of hepatitis C virus antibody with specific peptides in seropositive blood donors and comparison with genotyping of viral RNA. León P, et al. **Vox Sang** 1997; 72(2):71-5
Hepatitis C virus genotypes--mixed infections [letter; comment] Poljak M, et al. **Vox Sang** 1997;72(1):63-4. Comment on: Vox Sang 1996;70(3):180-1.
[Immunohistochemical double labelling studies on liver tissues superinfected with hepatitis C virus and hepatitis B virus] Lang Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):345-8 (Eng. Abstr.) **(Chi)**
[Establishment of labeled primer reverse transcription in situ polymerase chain reaction and detection of hepatitis C virus in liver tissues] Liu Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jun;76(6):431-4 (Eng. Abstr.) **(Chi)**
[Clinical significance of detection and quantification of hepatitis C virus RNA in hemodialysis: proposal for a rational diagnostic strategy] Halfon P, et al. **Nephrologie** 1997;18(2):53-8 (Eng. Abstr.) **(Fre)**
[Optimal antiviral therapy of chronic hepatitis caused by hepatitis C virus] Cooreman MP, et al. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1476-82 (51 ref.) (Eng. Abstr.) **(Hun)**
[Comparison of three methods for quantitative measurement of hepatitis C virus] Yukimasa N, et al. **Rinsho Byori** 1997 Mar;45(3):260-4 (Eng. Abstr.) **(Jpn)**
[Use of DNA sequence hybridization with specific oligonucleotide probes to identify hepatitis C virus genotypes] Domingo MJ, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):433-5 (Eng. Abstr.) **(Spa)**
[Spontaneous disappearance of viremia in hemophiliacs with chronic hepatitis C (letter)] Aguilar C, et al. **Sangre (Barc)** 1996 Apr;41(2):159-60 **(Spa)**

HEPATITIS C ANTIBODIES

ANALYSIS

Prevalence and significance of hepatitis C virus (HCV) genotypes in anti-HCV positive patients in northwest Croatia. Golubić D, et al. **Acta Med Croatica** 1997; 51(2):79-82
Hepatitis C virus recurrence after liver transplantation: relationship to anti-HCV core IgM, genotype, and level of viremia. Crespo J, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1458-62
Hepatitis B and C viruses, human T-cell lymphotropic virus types I and II, and leukemias: a case-control study. The Italian Leukemia Study Group. Gentile G, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Mar;5(3):227-30
A critical evaluation of hepatitis C testing of cadaveric corneal donors [see comments] Laycock KA, et al. **Cornea** 1997 Mar;16(2):146-50. Comment in: Cornea 1997 Mar;16(2):123-4.
Should hepatitis C positive donors be accepted for renal transplantation? Morales JM, et al. **Curr Opin Nephrol Hypertens** 1996 May;5(3):199-201 (40 ref.)
Serological diagnosis of hepatitis C virus in patients with liver disease in Saudi Arabia. Evaluation of antibody determination by recombinant immunoblot assays in relation to RNA detection by polymerase chain reaction. Al-Ahdal MN, et al. **Diagn Microbiol Infect Dis** 1997 Mar; 27(3):69-73
Epidemiology, serological markers, and hepatic disease of anti-HCV ELISA-2-positive blood donors. Salmerón FJ, et al. **Dig Dis Sci** 1996 Oct;41(10):1933-8
Modified enzyme immunoassay to detect hepatitis C virus antibodies in oral fluid. McIntyre PG, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):882-4
Hepatitis C in a French population-based survey, 1994: seroprevalence, frequency of viremia, genotype distribution, and risk factors. The Collaborative Study Group. Dubois F, et al. **Hepatology** 1997 Jun;25(6):1490-6
Early antibody response against hypervariable region 1 is associated with acute self-limiting infections of hepatitis C virus. Zibert A, et al. **Hepatology** 1997 May;25(5):1245-9
Prevalence of anti-HCV antibodies in central India. Jaiswal SP, et al. **Indian J Med Res** 1996 Aug;104:177-81
Prevalence of anti-HCV antibodies in chronic liver disease in the Czech Republic [letter] Stránský J, et al. **Infection** 1997 Jan-Feb;25(1):49-50
Hepatitis C antibody positive: what next? [editorial] [published erratum appears in Int J STD AIDS 1997 Mar;8(3):149] Newell AN, et al. **Int J STD AIDS** 1997 Jan;8(1):1-4 (41 ref.)
Hepatitis C virus infection: a possible promoting agent in porphyria cutanea tarda. Antonov K, et al. **Ital J Gastroenterol** 1996 Dec;28(9):482-6
Prevalence of hepatitis E in a central Italian town at high endemicity for hepatitis C virus. Stroffolini T, et al. **Ital J Gastroenterol** 1996 Dec;28(9):523-5
Influence of HIV disease on serum anti-HCV antibody titers: a study of intravenous drug users [letter] Sorbi D, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Nov 1;13(3):295-6
Evaluation of performance of the RIBA processor system for automated analysis of the strip immunoblot assay for detection of antibodies to hepatitis C virus. Icardi G, et al. **J Clin Microbiol** 1997 Sep;35(9):2331-6
Anti-GOR in chronic HCV patients with membranoproliferative glomerulonephritis. Nelson DR, et al. **J Hepatol** 1996 Feb;24(2):248
Full or partial seroreversion in patients infected by hepatitis C virus. Lefrère JJ, et al. **J Infect Dis** 1997 Feb; 175(2):316-22
Clinical significance of hepatitis C viral RNA status and its correlation to antibodies to structural HCV antigens in anti-HCV reactive patients with normal liver tests. Fong TL, et al. **J Med Virol** 1996 Jul;49(3):253-8
Genotypic variation, clinical and histological characteristics of chronic hepatitis C detected at blood donor screening. Bird GL, et al. **J Viral Hepat** 1995;2(5):261-5
Detectable levels of IgM antibodies to hepatitis C virus core protein predict breakthrough in patients with chronic hepatitis C treated with interferon-alpha. Fracassetti O, et al. **J Viral Hepat** 1996 Sep;3(5):265-6
Seroprevalence of hepatitis B and C virus among professional blood donors--a single centre study of 135 donors in Karachi [letter] Ahmed A, et al. **JPMA J Pak Med Assoc** 1995 Nov;45(11):309
The frequencies of hepatitis B virus markers and hepatitis C virus antibody in patients with glomerulonephritis. Paydas S, et al. **Nephron** 1996;74(3):617-9
High prevalence of hepatitis C virus antibody in patients with chronic renal failure at the start of hemodialysis therapy [letter] Yonemura K, et al. **Nephron** 1996;73(3):484-5
Natural recovery from acute hepatitis C virus infection by agammaglobulinemic twin children. Adams G, et al. **Pediatr Infect Dis J** 1997 May;16(5):533-4
Reduction in the incidence of infection by hepatitis C virus in children with acute lymphoblastic leukemia after suspension of sampling from the finger. Dibenedetto SP, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):265-6
IgM antibodies to hepatitis C virus [letter; comment] Navarro JF, et al. **Perit Dial Int** 1996 Nov-Dec;16(6):644-6. Comment on: Perit Dial Int 1995 Jul-Sep;15(6):241-5.
Hepatitis C antibody prevalence in blood donors in different governorates in Egypt. Arthur RR, et al. **Trans R Soc Trop Med Hyg** 1997 May-Jun;91(3):271-4
Reproducibility of hepatitis C virus antibody detection with various confirmatory assays [letter] Allain JP, et al. **Transfusion** 1997 Sep;37(9):989-91
Unexplained hepatitis C virus antibody seroconversion in established blood donors [letter] Hewitt PE, et al. **Transfusion** 1997 Sep;37(9):987-8
[Detection of HCV RNA in anti-HCV positive patients with chronic hepatic porphyria] Malina L, et al. **Cas Lek Cesk** 1996 Jul 26;135(13):427-9 (Eng. Abstr.) **(Cze)**
[Follow-up of blood donors with positive serology for hepatitis C virus and their recipients is insufficient] Bonaguidi-Magniaux M, et al. **Gastroenterol Clin Biol** 1996; 20(8-9):663-8 (Eng. Abstr.) **(Fre)**
[Medical follow-up of blood donors with hepatitis C virus antibodies. Value of transfusion surveys for the recipients (editorial)] Jullien AM. **Gastroenterol Clin Biol** 1996; 20(8-9):657-60 **(Fre)**
[Prevalence of serum anti-hepatitis C virus antibodies and risk factors of contamination in the personnel of a hospital in the Paris region. A prospective survey] Maillard MF, et al. **Gastroenterol Clin Biol** 1996;20(12):1053-7 (Eng. Abstr.) **(Fre)**
[A resected case of cholangiocellular carcinoma associated with HCV antibody-positive liver cirrhosis] Saitoh S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):131-6 **(Jpn)**
[Clinical characteristics and muscle histopathology in polymyositis positive anti-hepatitis with C virus antibody] Ayabe M, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):208-11 (Eng. Abstr.) **(Jpn)**

BIOSYNTHESIS

Antibody production against hepatitis C virus core and nonstructural 3 proteins is highly sensitive to deficits in T-cell function. Ando Y, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):104-6
Induction of antibodies against structural proteins of hepatitis C virus in mice using recombinant adenovirus. Makimura M, et al. **Vaccine** 1996 Jan;14(1):28-36
[Establishment of anti-HCV NS5 alpha McAb hybridoma cell lines and its application on clinical immunohistochemical diagnosis] Gao J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):585-7 (Eng. Abstr.) **(Chi)**

BLOOD

Clinical importance of assessment of anti-HCV IgM antibodies in chronic hepatitis C. Stránský J, et al. **Acta Virol** 1996 Apr;40(2):61-5
Hepatitis C virus serology in parenteral drug users with chronic liver disease. Novick DM, et al. **Addiction** 1997 Feb;92(2):167-71
Hepatitis C antibodies in haemodialysis and pattern of end-stage renal failure in Gassim, Saudi Arabia. Soyannwo MA, et al. **Afr J Med Med Sci** 1996 Mar;25(1):13-22
Prevalence of antibodies to hepatitis C virus and correlation with liver disease in renal transplant patients. Rostaing L, et al. **Am J Nephrol** 1997;17(1):46-52
High prevalence of hepatitis C infection among blood donors in northeastern Thailand. Songsivilai S, et al.

Am J Trop Med Hyg 1997 Jul;57(1):66–9

Anti–HCV envelope prevalence in blood donors from Baden–Württemberg. da Silva Cardoso M, et al. **Ann Hematol** 1997 Mar;74(3):135–7

Correlation of hepatitis C virus antibodies with viremia [letter] Feucht HH, et al. **Ann Intern Med** 1997 Apr 15; 126(8):666–7

Prevalence of hepatitis C virus and distribution of its genotypes in Northern Eurasia. Lvov DK, et al. **Arch Virol** 1996;141(9):1613–22

Prevalence of hepatitis C antibodies among healthcare workers of two teaching hospitals. Who is at risk? Neal KR, et al. **BMJ** 1997 Jan 18;314(7075):179–80

Lack of antibodies to the envelope glycoproteins of hepatitis C virus in immunoglobulin preparations from screened donors. Piazza M, et al. **Boll Soc Ital Biol Sper** 1996 Jan–Feb;72(1–2):69–70

Hepatitis GB virus C genome in the serum of aplastic anaemia patients receiving frequent blood transfusions [see comments] Moriyama K, et al. **Br J Haematol** 1997 Mar; 96(4):864–7. Comment in: Br J Haematol 1997 Aug;98(2):495.

Significance of the presence of antibodies against hepatitis C virus in asymptomatic blood donors. Ferraz ML, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1275–82

Correlation of hepatitis virus serologic status with clinicopathologic features in patients undergoing hepatectomy for hepatocellular carcinoma. Yamanaka N, et al. **Cancer** 1997 Apr 15;79(8):1509–15

Polymerase chain reaction analysis for viral nucleic acids in acute sporadic hepatitis patients negative for serum hepatitis B surface antigen and antibodies to hepatitis C virus. Huo TI, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec; 58(6):379–84

Prevalence of hepatitis C virus antibodies and evaluation of hepatitis C virus genotypes in patients with lichen planus. Imhof M, et al. **Dermatology** 1997;195(1):1–5

Prevalence of antibodies to hepatitis C virus in drug–dependent patients in Jeddah, Saudi Arabia. Njoh J, et al. **East Afr Med J** 1997 Feb;74(2):89–91

Pre–treatment levels of anti–HCV core IgM antibodies are closely associated with response to alpha interferon therapy in chronic hepatitis C patients. Tabone M, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):287–91

Low prevalence of antibody to hepatitis C virus in children with chronic liver disease [letter] Yüce A, et al. **Eur J Pediatr** 1997 Feb;156(2):159

The low positive rate of serum alpha–fetoprotein levels in hepatitis C virus antibody–positive patients with hepatocellular carcinoma. Furui J, et al. **Hepatogastroenterology** 1995 Sep–Oct;42(5):445–9

Hypervariable region sequence in cryoglobulin–associated hepatitis C virus in sera of patients with chronic hepatitis C: relationship to antibody response against hypervariable region genome. Aiyama T, et al. **Hepatology** 1996 Dec; 24(6):1346–50

Detection of hepatitis C virus by third generation enzyme immunoassay. Ghuman HK. **Indian J Gastroenterol** 1995 Oct;14(4):154

Seroprevalence of hepatitis C virus in various groups living in captivity [letter] Nijhawan S, et al. **Indian J Gastroenterol** 1997 Apr;16(2):75–6

Seroprevalences of hepatitis B and C viruses and Helicobacter pylori infection in a small, isolated population at high risk of gastric and liver cancer. Chen SY, et al. **Int J Cancer** 1997 May 29;71(5):776–9

Hepatitis C virus antibody (anti–HCV): prevalence in psoriasis. Chouela E, et al. **Int J Dermatol** 1996 Nov; 35(11):797–9

Prevalence of antibodies to hepatitis C among recently treated leprosy patients in Senegal parallels those in normal populations [letter] Renaudineau Y, et al. **Int J Lepr Other Mycobact Dis** 1996 Dec;64(4):453–5

Evaluation of a new automated third–generation anti–HCV enzyme immunoassay. Lavanchy D, et al. **J Clin Lab Anal** 1996;10(5):269–76

Diverse patterns of recognition of hepatitis C virus core and nonstructural antigens by antibodies present in Egyptian cancer patients and blood donors. Attia MA, et al. **J Clin Microbiol** 1996 Nov;34(11):2665–9

HCV activity in Calcutta––a serological study. Neogi DK, et al. **J Commun Dis** 1997 Mar;29(1):1–6

Prevalence of inhabitants with anti–hepatitis C virus antibody in an area following an acute hepatitis C epidemic: age–and area–related features. Ishibashi M, et al. **J Epidemiol** 1996 Mar;6(1):1–7

Antibody response to E2/NS1 hepatitis C virus protein in patients with acute hepatitis C. Kobayashi M, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):73–6

Antibodies to hepatitis C virus and elevated transaminase levels in a town of hyperendemicity in Iwate, Japan. Koyama T, et al. **J Gastroenterol Hepatol** 1997 Jan; 12(1):67–72

Evaluation of hepatitis C virus envelope proteins expressed in E. coli and insect cells for use as tools for antibody screening. Hüssy P, et al. **J Hepatol** 1997 Jun;26(6):1179–86

Humoral immunoreactivity to HCV core antigen in patients with chronic hepatitis C [letter] Marousis CG, et al. **J Hepatol** 1997 Feb;26(2):446–7

Quantitative assessment of hepatitis C virus RNA and IgM antibodies to hepatitis C core in chronic hepatitis C. Martinelli AL, et al. **J Hepatol** 1996 Jan;24(1):21–6

Significance of IgM anti–HCV core level in chronic hepatitis C. Papatheodoridis GV, et al. **J Hepatol** 1997 Jul; 27(1):36–41

Serological pattern of hepatitis C virus recurrence after liver transplantation. Rehermann B, et al. **J Hepatol** 1996 Jan; 24(1):15–20

The presence of rheumatoid factor in sera from anti–HCV positive blood donors interferes with the detection of HCV–specific IgM. Trent HCV Study Group. Stevenson DL, et al. **J Hepatol** 1996 Nov;25(5):621–6

Surreptitious hepatitis C virus (HCV) infection detected in the majority of patients with cryptogenic chronic hepatitis and negative HCV antibody tests. Schmidt WN, et al. **J Infect Dis** 1997 Jul;176(1):27–33

Mapped auditory evoked potentials before and after interferon treatment. Malaguarnera M, et al. **J Interferon Cytokine Res** 1996 Jun;16(6):441–6

Evaluation of a pooling method for routine anti–HCV screening of blood donors to lower the cost burden on blood banks in countries under development. García Z, et al. **J Med Virol** 1996 Jul;49(3):218–22

Absence of extensive genetic heterogeneity of hepatitis C virus in antibody–negative chronic hepatitis C. Kao JH, et al. **J Med Virol** 1996 Jun;49(2):87–90

Nucleotide sequences of the hepatitis C virus core region in patients without anti–core antibody. Nagasaka A, et al. **J Med Virol** 1996 Jun;49(2):91–4

Magnitude of hepatitis C virus infection in India: prevalence in healthy blood donors, acute and chronic liver diseases. Panigrahi AK, et al. **J Med Virol** 1997 Mar;51(3):167–74

Comparison of prevalence of anti–hepatitis C virus antibodies in differing South American populations. Robinson JW, et al. **J Med Virol** 1996 Oct;50(2):188–92

Prevalence of antibodies to hepatitis A, C, and E viruses in different ethnic groups in French Guiana. Talarmin A, et al. **J Med Virol** 1997 Aug;52(4):430–5

Low prevalence of antibody to hepatitis C virus in an urban adolescent population. Jonas MM, et al. **J Pediatr** 1997 Aug;131(2):314–6

Prevalence of antibodies to hepatitis C and herpes simplex virus type 1 is not increased in children with liver kidney microsomal type 1 autoimmune hepatitis. Gregorio GV, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):534–7

A high prevalence of antibodies to hepatitis C virus among commercial plasma donors from Western India. Jha J, et al. **J Viral Hepat** 1995;2(5):257–60

Age and platelet count: a simple index for predicting the presence of histological lesions in patients with antibodies to hepatitis C virus. METAVIR and CLINIVIR Cooperative Study Groups. Poynard T, et al. **J Viral Hepat** 1997 May;4(3):199–208

Higher elimination rate of hepatitis C virus among women. Yamakawa Y, et al. **J Viral Hepat** 1996 Nov;3(6):317–21

Lack of monomeric IgM anti–hepatitis C virus (HCV) core antibodies in patients with chronic HCV infection. Negro F, et al. **J Virol Methods** 1996 Jul;60(2):179–82

Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [letter; comment] Abdul Mujeeb S. **JPMA J Pak Med Assoc** 1997 Mar;47(3):100–1. Comment on: JPMA J Pak Med Assoc 1996 Jul;46(7):152–4.

Prevalence of hepatitis C antibodies in health care personnel. Miyajima I, et al. **Kansenshogaku Zasshi** 1997 Feb; 71(2):103–7

Detection of serum HBV DNA and anti–HCV antibody in HBsAg seronegative patients with hepatocellular carcinoma in Japan. Tokeshi S, et al. **Kansenshogaku Zasshi** 1996 Feb;70(2):103–7

Hepatitis C virus infection–associated markers in sera from blood donors in Surabaya, Indonesia. Darmadi S, et al. **Microbiol Immunol** 1996;40(5):401–5

Serologic survey for control of hepatitis C in haemodialysis patients: third–generation assays and analysis of costs. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Feb; 12(2):298–303

Absence of seroconversion to hepatitis C virus infection in CAPD patients [letter] Górriz JL, et al. **Nephrol Dial Transplant** 1997 Feb;12(2):373–4

Low prevalence of hepatitis C virus antibodies in a Spanish population with glomerular diseases [letter] Gonzalo A, et al. **Nephron** 1997;76(2):245–6

Hepatitis C virus seropositivity in glomerulonephritis patients [letter] Roccatello D, et al. **Nephron** 1997;76(3):355–6

Characteristics of anti–HCV antibody–positive patients with hepatocellular carcinoma on chronic hemodialysis: recommendation of periodic ultrasonography for early detection. Sakai Y, et al. **Nephron** 1996;74(2):386–9

Expression of HCV envelope proteins and the serological utility of the anti–E2 immune response. Lesniewski RR, et al. **Princess Takamatsu Symp** 1995;25:129–37

Anti–HCV seroprevalence and risk factors of hepatitis C virus infection in Moroccan population groups. Benjelloun S, et al. **Res Virol** 1996 Jul–Aug;147(4):247–55

Prevalence of hepatitis C antibodies among health care workers at high risk for blood exposure. Martins RM, et al. **Rev Inst Med Trop Sao Paulo** 1996 Jul–Aug;38(4):309–10

Concomitant high prevalence of hepatitis C virus antibodies and hepatitis B virus markers in a small village of the Amazon Region, Mato Grosso State, Brazil. Souto FJ, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):221–3

Hepatitis C virus infection rate in volunteer blood donors from the Western Cape––comparison of screening tests and PCR. Tucker TJ, et al. **S Afr Med J** 1997 May;87(5):603–5

Prevalence of hepatitis B and C markers in the south–east of Spain: an unlinked community–based serosurvey of 2,203 adults. Garcia–Fulgueiras A, et al. **Scand J Infect Dis** 1996; 28(1):17–20

Incidence rate and risk factors for HCV seroconversion among injecting drug users in an area with low HIV seroprevalence. Rezza G, et al. **Scand J Infect Dis** 1996; 28(1):27–9

Seroprevalence of hepatitis B and C viral markers in patients with primary hepatocellular carcinoma in Singapore. Khin LW, et al. **Singapore Med J** 1996 Oct;37(5):492–6

Antibody to hepatitis C virus in blood donors found positive for other agents. I. Treponemal infection. Aloysius S, et al. **Transfus Med** 1991 Sep;1(3):191–3

Infective, chronic carriers of hepatitis C virus among blood donors with no history of clinical hepatitis. Larsen J, et al. **Transfus Med** 1991 Mar;1(1):13–6

Antibody to hepatitis C virus in blood donors found positive for other agents. II. Anti–HIV–1. Moore MC, et al. **Transfus Med** 1991 Sep;1(3):195–7

Limited utility of alanine aminotransferase screening of hepatitis C antibody–screened blood donors. Cable R, et al. **Transfusion** 1997 Feb;37(2):206–10

A prospective study of a serum–pooling strategy in screening blood donors for antibody to hepatitis C virus. Liu P, et al. **Transfusion** 1997 Jul;37(7):732–6

A search for hepatitis C virus polymerase chain reaction–positive but seronegative subjects among blood donors with elevated alanine aminotransferase. Prince AM, et al. **Transfusion** 1997 Feb;37(2):211–4

Anti–hepatitis C virus seroconversion in blood donors in Japan [letter] Shimoyama R, et al. **Transfusion** 1997 May; 37(5):564–5

Performance of three generations of anti–hepatitis C virus enzyme–linked immunosorbent assays in donors and patients. Vrielink H, et al. **Transfusion** 1997 Aug; 37(8):845–9

Liver transplantation for alcoholic cirrhosis with anti–HCV antibodies. Pera M, et al. **Transpl Int** 1997;10(4):289–92

Anti–HCV antibody is sensitive but not sufficient to detect HCV active infection in renal transplanted patients: the role of PCR for HCV–RNA. David–Neto E, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):781–2

Results of kidney transplantation in HBsAG and anti–HCV seropositive renal allograft recipients. Durlik M, et al. **Transplant Proc** 1996 Dec;28(6):3459–60

Prevalence and seroconversion to HCV in hemodialyzed patients, and epidemiological factors. Morales MF, et al. **Transplant Proc** 1996 Dec;28(6):3402–5

Immunoglobulin M anti–hepatitis C virus core antibodies correlate with hepatitis C recurrence in liver graft recipients. Negro F, et al. **Transplant Proc** 1996 Oct; 28(5):2966–9

Evaluation of third–generation hepatitis C antibody assay in chronic hepatitis C and chronic non–B, non–C hepatitis. Kao JH, et al. **Viral Immunol** 1995;8(3):135–9

Detection of antibody to hepatitis C virus E2 recombinant antigen among samples indeterminate for anti–HCV after wide serological testing and correlation with viremia. The Spanish Study Group for Blood Donors at Risk of Transmission of HCV. León P, et al. **Vox Sang** 1996; 70(4):213–6

An easy dipstick assay for anti–core antibodies to screen blood donors for hepatitis C virus viremia. Mulyanto, et al. **Vox Sang** 1996;70(4):229–31

Incidence of hepatitis C virus RNA in anti–HCV–negative plasma pools and blood products. Saldanha J, et al. **Vox Sang** 1996;70(4):232–4

Seroprevalence of hepatitis B virus, hepatitis C virus, and human immunodeficiency virus antibodies in Turkish patients with hereditary coagulation factor deficiencies [letter] Soylu AR, et al. **Vox Sang** 1997;73(1):54

Seroprevalence of HIV and HCV infections in Alexandria, Egypt. Quinti I, et al. **Zentralbl Bakteriol** 1995 Dec; 283(2):239–44

[A three–year follow–up study of hepatitis C virus infected individuals from Beixie village, Gu–an county, Hebei province, China] Tang SX, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):145–7 (Eng. Abstr.) **(Chi)**

[Low prevalence of ant–hepatitis c virus antibodies in hepatocellular carcinoma in Senegal] Ka MM, et al. **Ann Gastroenterol Hepatol (Paris)** 1996 Nov–Dec; 31(6):329–32 (Eng. Abstr.) **(Fre)**

[Detection of hepatitis c in blood donors in Niamey] Mamadou S, et al. **Bull Soc Pathol Exot** 1997;90(2):74 (Eng. Abstr.) **(Fre)**

[Research of type 1, 2 and 3 hepatitis C virus specific antibodies in relation to the viral genotype in chronically infected patients] Castelain S, et al. **Pathol Biol (Paris)** 1997 Jan;45(1):41–7 (Eng. Abstr.) **(Fre)**

[Screening and confirmation of anti–HCV antibodies in Tunisian blood donors] Abid S, et al. **Transfus Clin Biol** 1997;4(2):221–6 (Eng. Abstr.) **(Fre)**

[Prevalence of hepatitis C virus in blood donors and comparison of 4 different anti–HCV differentiation tests] Hennig H, et al. **Beitr Infusionsther Transfusionsmed** 1996; 33:231–4 (Eng. Abstr.) **(Ger)**

[A case of non–B, non–C, juvenile hepatocellular carcinoma with brain metastasis] Sato S, et al.

Nippon Shokakibyo Gakkai Zasshi 1996 Oct;93(10):758–62 **(Jpn)**
[Evaluation of one of the third generation reagents for anti-HCV antibody measurement in comparison with three second generation methods] Kobayashi J, et al.
Rinsho Byori 1997 Jan;45(1):87–91 (Eng. Abstr.) **(Jpn)**
[Anti-HCV antibody and hemolytic complement activity in sera from alcoholic patients] Koyama I, et al.
Rinsho Byori 1997 Jun;45(6):585–9 (Eng. Abstr.) **(Jpn)**
[The risk of seroconversion in surgeons of the hepatitis B, hepatitis C and human immunodeficiency viruses (in a specific surgical population)] Mineiro J, et al.
Acta Med Port 1997 Jun–Jul;10(6–7):455–61 (Eng. Abstr.) **(Por)**
[Prevalence of hepatitis C virus in urban and rural populations of northeast Brazil–pilot study] Silva L, et al.
Arq Gastroenterol 1995 Oct–Dec;32(4):168–71 (Eng. Abstr.) **(Por)**
[Survival of the hepatitis C virus in a dialysis population in Goiânia, Goiás] Naghettini AV, et al.
Rev Soc Bras Med Trop 1997 Mar–Apr;30(2):113–7 (Eng. Abstr.) **(Por)**
[Hepatitis C viruses antibodies. Prevalence and their influence on morbidity–mortality in renal transplant recipients, in the last two years of the kidney transplantation program in La Plata city] Curciarello JO, et al.
Acta Gastroenterol Latinoam 1996;26(2):79–83 (Eng. Abstr.) **(Spa)**
[Detection of low-avidity IgG antibodies in the diagnosis of primary acute infection by hepatitis C virus] León P, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):14–8 (Eng. Abstr.) **(Spa)**
[Anti-HVC IgM as maker of chronic hepatitis C in hemophiliacs (letter)] Aguilar Franco C, et al.
Rev Clin Esp 1996 Nov;196(11):799–800 **(Spa)**
[Prevalence of antibody to hepatitis C virus in blood donors. Analysis of confirmed results (letter)] Wolff C, et al.
Rev Med Chil 1996 May;124(5):615–6 (Eng. Abstr.) **(Spa)**

IMMUNOLOGY

High prevalence of autoimmune phenomena in hepatitis C virus antibody positive patients with lymphoproliferative and connective tissue disorders. Pivetti S, et al.
Br J Haematol 1996 Oct;95(1):204–11
Anti-oxidative therapy with oral dapsone improved HCV antibody positive annular elastolytic giant cell granuloma. Igawa K, et al. **J Dermatol** 1997 May;24(5):328–31
Human recombinant antibodies specific for hepatitis C virus core and envelope E2 peptides from an immune phage display library. Chan SW, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2531–9
The quantitative humoral immune response to the hepatitis C virus is correlated with disease activity and response to interferon-alpha. Löhr HF, et al. **J Hepatol** 1996 Sep; 25(3):292–300
Influence of viraemia and genotype upon serological reactivity in screening assays for antibody to hepatitis C virus. Dhaliwal SK, et al. **J Med Virol** 1996 Feb; 48(2):184–90
Characterisation of a panel of monoclonal antibodies raised against recombinant HCV core protein. Ferns RB, et al. **J Med Virol** 1996 Nov;50(3):221–9
Antibody responses to hepatitis C envelope proteins in patients with acute or chronic hepatitis C.
Fournillier-Jacob A, et al. **J Med Virol** 1996 Oct; 50(2):159–67
Reactivity of synthetic peptides representing selected sections of hepatitis C virus core and envelope proteins with a panel of hepatitis C virus-seropositive human plasma. Jackson P, et al. **J Med Virol** 1997 Jan;51(1):67–79
Immunization with plasmid DNA encoding hepatitis C virus envelope E2 antigenic domains induces antibodies whose immune reactivity is linked to the injection mode. Nakano I, et al. **J Virol** 1997 Sep;71(9):7101–9
Epitope mapping of antibodies directed against hypervariable region 1 in acute self-limiting and chronic infections due to hepatitis C virus. Zibert A, et al. **J Virol** 1997 May; 71(5):4123–7
Murine humoral immune response against recombinant structural proteins of hepatitis C virus distinct from those of patients. Ahmed M, et al. **Microbiol Immunol** 1996; 40(2):169–76
High efficiency prokaryotic expression and purification of a portion of the hepatitis C core protein and analysis of the immune response to recombinant protein in BALB/c mice. Hitomi Y, et al. **Viral Immunol** 1995;8(2):109–19
Characterization of the antibody reactivity to synthetic peptides from different parts of the hepatitis C virus genome. Pujol FH, et al. **Viral Immunol** 1996;9(2):89–96

ISOLATION & PURIFICATION

Confirmatory strategy of hepatitis C serology based on two screening assays in a diagnostic setting. Goubau P, et al.
Acta Clin Belg 1997;52(1):31–5
Heterosexual transmission of hepatitis C virus among married couples in southwestern Japan. Tanaka K, et al.
Int J Cancer 1997 Jul 3;72(1):50–5
Non-organ specific autoantibodies in children with chronic hepatitis C. Bortolotti F, et al. **J Hepatol** 1996 Nov; 25(5):614–20
An ELISA for the detection of antibody to the core antigen of hepatitis C virus: use in diagnosis and analysis of indeterminate samples. Trowbridge R, et al. **J Hepatol** 1996 May;24(5):532–8
Analytical and laboratory evaluation of a new fully-automated third generation enzyme immunoassay for the detection of antibodies to the hepatitis C virus. Bonanni P, et al. **J Virol Methods** 1996 Dec;62(2):113–22
[Coexistence of virus C and antinuclear antibodies in chronic active hepatitis: diagnostic and therapeutic implications] Pirotte J. **Rev Med Liege** 1996 Sep;51(9):586–9 **(Fre)**

PHARMACOLOGY

Nanofiltration of immunoglobulin with 35-nm filters fails to remove substantial amounts of HCV [letter] Eibl J, et al.
Biologicals 1996 Sep;24(3):285–7

HEPATITIS C ANTIGENS

ANALYSIS

An epitope chimeric antigen for the hepatitis C virus serological screening test. Yagi S, et al.
Biol Pharm Bull 1996 Oct;19(10):1254–60
Immunohistochemical detection of hepatitis C virus related C100-3 and core antigens in formalin-fixed liver tissue. Chamlian A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):557–66
Immunohistochemical detection and significance of hepatitis C virus antigen. Zhao X, et al. **Chin Med J (Engl)** 1996 Jun;109(6):486–8
Demonstration and distribution of HCV RNA sequences by in situ hybridization and HCV-related proteins by immunohistochemistry in the liver tissue of patients with chronic HCV infection. Sansonno D, et al.
Pathobiology 1995;63(5):239–48
[Immunohistochemical double labelling studies on liver tissues superinfected with hepatitis C virus and hepatitis B virus] Lang Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 May;76(5):345–8 (Eng. Abstr.) **(Chi)**

BLOOD

Prevalence of hepatitis A, B, and C markers in school children of a rural area of Crete, Greece. Lionis C, et al.
Eur J Epidemiol 1997 Jun;13(4):417–20
Acute exacerbations in chronic hepatitis C: a clinicopathological and prognostic study. Sheen IS, et al.
J Hepatol 1996 May;24(5):525–31
Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [letter; comment] Abdul Mujeeb S. **JPMA J Pak Med Assoc** 1997 Mar;47(3):100–1. Comment on: JPMA J Pak Med Assoc 1996 Jul;46(7):152–4.
Safety of blood products derived from plasma pools: the positive impact of anti-HCV screening on the quality of such products. da Silva Cardoso M, et al. **Vox Sang** 1996; 71(3):184–6

IMMUNOLOGY

Clinical importance of assessment of anti-HCV IgM antibodies in chronic hepatitis C. Stránský J, et al.
Acta Virol 1996 Apr;40(2):61–5
Hepatitis C virus recurrence after liver transplantation: relationship to anti-HCV core IgM, genotype, and level of viremia. Crespo J, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1458–62
T- and B-cell responses to different hepatitis C virus antigens in patients with chronic hepatitis C infection and in healthy anti-hepatitis C virus--positive blood donors without viremia [see comments] Lechmann M, et al. **Hepatology** 1996 Oct;24(4):790–5. Comment in: Hepatology 1996 Oct;24(4):961–3.
Diverse patterns of recognition of hepatitis C virus core and nonstructural antigens by antibodies present in Egyptian cancer patients and blood donors. Attia MA, et al.
J Clin Microbiol 1996 Nov;34(11):2665–9
Lymphocyte proliferative responses to recombinant hepatitis C virus antigens in patients with chronic hepatitis C. Mori H, et al. **J Gastroenterol Hepatol** 1996 Aug;11(8):697–704
Human recombinant antibodies specific for hepatitis C virus core and envelope E2 peptides from an immune phage display library. Chan SW, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2531–9
Humoral immunoreactivity to HCV core antigen in patients with chronic hepatitis C [letter] Marousis CG, et al.
J Hepatol 1997 Feb;26(2):446–7
Significance of IgM anti-HCV core level in chronic hepatitis C. Papatheodoridis GV, et al. **J Hepatol** 1997 Jul; 27(1):36–41
An ELISA for the detection of antibody to the core antigen of hepatitis C virus: use in diagnosis and analysis of indeterminate samples. Trowbridge R, et al. **J Hepatol** 1996 May;24(5):532–8
Lymphocyte reactivity to hepatitis C virus (HCV) antigens shows evidence for exposure to HCV in HCV-seronegative spouses of HCV-infected patients. Bronowicki JP, et al.
J Infect Dis 1997 Aug;176(2):518–22
Characterisation of a panel of monoclonal antibodies raised against recombinant HCV core protein. Ferns RB, et al. **J Med Virol** 1996 Nov;50(3):221–9
B-cell epitopes in hypervariable region 1 of hepatitis C virus obtained from patients with chronic persistent hepatitis. Nakamoto Y, et al. **J Med Virol** 1996 Sep;50(1):35–41
Comparison of prevalence of anti-hepatitis C virus antibodies in differing South American populations. Robinson JW, et al. **J Med Virol** 1996 Oct;50(2):188–92
Lack of monomeric IgM anti-hepatitis C virus (HCV) core antibodies in patients with chronic HCV infection. Negro F, et al. **J Virol Methods** 1996 Jul;60(2):179–82
Overexpression and simple purification of a truncated, immunologically reactive GST-HCV core (1–123) fusion protein. Seong YR, et al. **J Virol Methods** 1996 May; 59(1–2):13–21
Human monoclonal recombinant Fabs specific for HCV antigens obtained by repertoire cloning in phage display combinatorial vectors. Plaisant P, et al. **Res Virol** 1997 Mar–Apr;148(2):165–9
DNA vaccination for the induction of immune responses against hepatitis C virus proteins. Inchauspé G, et al.
Vaccine 1997 Jun;15(8):853–6
Antigenicity of hepatitis C virus envelope proteins expressed in Chinese hamster ovary cells. Inudoh M, et al.
Vaccine 1996 Dec;14(17–18):1590–6
Induction of antibodies against structural proteins of hepatitis C virus in mice using recombinant adenovirus. Makimura M, et al. **Vaccine** 1996 Jan;14(1):28–36
Characterization of the antibody reactivity to synthetic peptides from different parts of the hepatitis C virus genome. Pujol FH, et al. **Viral Immunol** 1996;9(2):89–96
Detection of antibody to hepatitis C virus E2 recombinant antigen among samples indeterminate for anti-HCV after wide serological testing and correlation with viremia. The Spanish Study Group for Blood Donors at Risk of Transmission of HCV. León P, et al. **Vox Sang** 1996; 70(4):213–6
An easy dipstick assay for anti-core antibodies to screen blood donors for hepatitis C virus viremia. Mulyanto, et al. **Vox Sang** 1996;70(4):229–31

ISOLATION & PURIFICATION

In situ simultaneous detection of hepatitis C virus RNA and hepatitis C virus-related antigens in hepatocellular carcinoma. Sansonno D, et al. **Cancer** 1997 Jul 1;80(1):22–33

METABOLISM

Presentation of the hydrophilic domains of hepatitis C viral E2 envelope glycoprotein on hepatitis B surface antigen particles. Lee IH, et al. **J Med Virol** 1996 Oct;50(2):145–51

PHARMACOLOGY

Impaired induction of cytotoxic T lymphocytes by antagonism of a weak agonist borne by a variant hepatitis C virus epitope. Kaneko T, et al. **Eur J Immunol** 1997 Jul; 27(7):1782–7

HEPATITIS C-LIKE VIRUSES

Hepatitis C: seven years after the discovery of the causative agent. Verslype C, et al. **Acta Clin Belg** 1997;52(1):36–48 (108 ref.)
Viral RNA in duodenal bile of cirrhotic patients with chronic hepatitis C. Kuan SF, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):847–52
Molecular cloning and expression of hepatitis C virus core protein and production of monoclonal antibodies to the recombinant protein. Songsivilai S, et al.
Asian Pac J Allergy Immunol 1996 Jun;14(1):31–41
Pathogenesis of chronic hepatitis C and associated clinical manifestations. Booth JC, et al.
Baillieres Clin Gastroenterol 1996 Jul;10(2):257–74 (96 ref.)
Hepatitis B and C viruses and primary liver cancer. Brechot C. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):335–73 (237 ref.)
Hepatitis C virus infection and gastric lymphoproliferation in patients with Sjögren's syndrome [letter] Sorrentino D, et al. **Blood** 1997 Sep 1;90(5):2116–7
Should people with hepatitis C virus infection receive a bone marrow transplant? [editorial] Ribas A, et al.
Bone Marrow Transplant 1997 Jan;19(2):97–9
Reciprocal interactions between human immunodeficiency virus and hepatitis C virus infections. Zylberberg H, et al. **Clin Infect Dis** 1996 Nov;23(5):1117–25 (97 ref.)
Mother-to-infant transmission of hepatitis C virus. Chang MH. **Clin Invest Med** 1996 Oct;19(5):368–72 (29 ref.)
Interactions between alcohol and hepatitis viruses in the liver. Brechot C, et al. **Clin Lab Med** 1996 Jun;16(2):273–87 (135 ref.)
Extrahepatic manifestations of hepatitis C. Gordon SC.
Dig Dis 1996 May–Jun;14(3):157–68 (63 ref.)
Hepatitis C virus: a historical perspective. Sherlock S.
Dig Dis Sci 1996 Dec;41(12 Suppl):3S–5S
Predictors of the efficacy of interferon therapy in chronic hepatitis C virus infection. Tokyo–Chiba Hepatitis Research Group. Shiratori Y, et al. **Gastroenterology** 1997 Aug;113(2):558–66
Hepatitis C and the controversies it creates relative to liver transplantation and autoimmune hepatitis. Bayraktar Y, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):873–81 (56 ref.)
Comparative evaluation of serology and polymerase chain reaction for hepatitis C viral infection in liver diseases [letter] Kar P, et al. **Indian J Gastroenterol** 1997 Jul;

16(3):118–9
Effectiveness of universal precautions in limiting nosocomial transmission of hepatitis C virus in haemodialysis units [letter] Aucella F, et al. **Int J Artif Organs** 1996 Jul; 19(7):435–6
Transcriptional repression of p53 promoter by hepatitis C virus core protein. Ray RB, et al. **J Biol Chem** 1997 Apr 25;272(17):10983–6
Clinical implications of GBV-C/HGV infection in patients with "HCV-related" chronic hepatitis. Francesconi R, et al. **J Hepatol** 1997 Jun;26(6):1165–72
Hepatitis GBV-C sequences in patients infected with HCV contaminated anti-D immunoglobulin and among i.v. drug users in Germany. Schreier E, et al. **J Hepatol** 1996 Sep; 25(3):385–9
A double-blind controlled trial of recombinant interferon-alpha 2b in haemodialysis patients with chronic hepatitis C virus infection and abnormal aminotransferase levels. Nephrologists' Group for the Study of HCV infection. Fernández JL, et al. **J Viral Hepat** 1997 Mar; 4(2):113–9
No significant influence of HLA determinants on susceptibility to hepatitis C virus infection in Caucasian patients with end-stage renal disease. Chen DF, et al. **Liver** 1996 Dec;16(6):384–9
HGV infection in dialysis patients [letter] Beccari M, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2370–1
Interleukin-6 in hepatitis C cirrhosis. Malaguarnera M, et al. **Panminerva Med** 1996 Dec;38(4):207–10
Hepatitis-C-associated cryoglobulinemia after liver transplantation. Safadi R, et al. **Transplant Proc** 1997 Sep; 29(6):2684–6
Natural course of HCV viremia following liver transplantation and clinical course of reinfection. Safadi R, et al. **Transplant Proc** 1997 Sep;29(6):2635–9
Hepatitis C infection in renal transplant recipients in Israel. Weinstein T, et al. **Transplant Proc** 1997 Sep;29(6):2696–8
Sexual transmission of two different HCV types causing acute hepatitis C [letter] Sánchez-Beiza L, et al. **Vox Sang** 1996; 71(4):244–5
[Recent epidemiologic findings on hepatitis C virus] Gangneux JP. **Sante** 1997 Jan-Feb;7(1):65–6 **(Fre)**
[New hepatitis viruses] Gerok W. **Schweiz Rundsch Med Prax** 1997 Jul 16;86(29–30):1160–2 (9 ref.) (Eng. Abstr.) **(Ger)**
[Hepatitis C virus and autoimmune hepatitis: coincidence or causal relationship?] Dienes HP, et al. **Verh Dtsch Ges Pathol** 1996;80:178–80 (Eng. Abstr.) **(Ger)**
[The hepatitis C virus] Bonardi R, et al. **Minerva Med** 1997 May;88(5):187–95 (46 ref.) (Eng. Abstr.) **(Ita)**
[Expression and characterization of hepatitis C virus proteins] Matsuura Y. **Uirusu** 1995 Dec;45(2):105–15 (56 ref.) **(Jpn)**
[Molecular evolution of hepatitis C virus and its closely related virus] Okamoto H. **Uirusu** 1996 Jun;46(1):13–21 (47 ref.) **(Jpn)**

CHEMISTRY

The nonstructural proteins of the hepatitis C virus: structure and functions. Neddermann P, et al. **Biol Chem** 1997 Jun; 378(6):469–76 (84 ref.)
Detection and distribution of hepatitis C virus-related proteins in lymph nodes of patients with type II mixed cryoglobulinemia and neoplastic or non-neoplastic lymphoproliferation. Sansonno D, et al. **Blood** 1996 Dec 15;88(12):4638–45
Performance of the automated COBAS AMPLICOR system for the detection of hepatitis C virus RNA. Kessler HH, et al. **Clin Diagn Virol** 1997 Feb;7(3):139–45
Characterization of the nuclear localization signal and subcellular distribution of hepatitis C virus nonstructural protein NS5A. Ide Y, et al. **Gene** 1996 Dec 5; 182(1–2):203–11
Combinatorial screening and rational optimization for hybridization to folded hepatitis C virus RNA of oligonucleotides with biological antisense activity. Lima WF, et al. **J Biol Chem** 1997 Jan 3;272(1):626–38
Intracellular cleavage of hepatitis C virus RNA and inhibition of viral protein translation by hammerhead ribozymes. Sakamoto N, et al. **J Clin Invest** 1996 Dec 15;98(12):2720–8
Characterization of truncated forms of hepatitis C virus glycoproteins. Michalak JP, et al. **J Gen Virol** 1997 Sep; 78 (Pt 9):2299–306
Analysis of hepatitis C virus core protein interaction domains. Nolandt O, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1331–40
Variation of hepatitis C virus hypervariable region 1 in immunocompromised patients. Odeberg J, et al. **J Infect Dis** 1997 Apr;175(4):938–43
Reactivity of synthetic peptides representing selected sections of hepatitis C virus core and envelope proteins with a panel of hepatitis C virus-seropositive human plasma. Jackson P, et al. **J Med Virol** 1997 Jan;51(1):67–79
Nucleotide sequences of the hepatitis C virus core region in patients without anti-core antibody. Nagasaka A, et al. **J Med Virol** 1996 Jun;49(2):91–4
Differential flotation centrifugation study of hepatitis C virus and response to interferon therapy. Nagasaka A, et al. **J Med Virol** 1997 Jun;52(2):190–4
Nucleotide sequence variation in the hypervariable region of the hepatitis C virus in the sera of chronic hepatitis C patients undergoing controlled interferon-alpha therapy. Yeh BI, et al. **J Med Virol** 1996 Jun;49(2):95–102
Absence of double-stranded replicative forms of HCV RNA in liver tissue from chronically infected patients. Blight K, et al. **J Viral Hepat** 1996 Jan;3(1):29–36
Variations of hepatitis C virus NS5B sequence (nucleotides 8261–8566) do not correlate with response to interferon-alpha therapy. Nelson DR, et al. **J Viral Hepat** 1995;2(6):285–92
A DNA hybridization method for typing hepatitis C virus genotype 2c. Biasin MR, et al. **J Virol Methods** 1997 May; 65(2):307–15
New quantitative assay of hepatitis B and C viruses by competitive PCR using alternative internal sequences. Payan C, et al. **J Virol Methods** 1997 May;65(2):299–305
Quantitative assessment of hepatitis C virus RNA by polymerase chain reaction and a digoxigenin detection system: comparison with branched DNA assay. Yeh CT, et al. **J Virol Methods** 1997 May;65(2):219–26
Molecular basis of subcellular localization of HCV core protein. Suzuki T, et al. **Liver** 1996 Aug;16(4):221–4 (35 ref.)

CLASSIFICATION

Distinct composition of viral quasispecies between ascites and serum samples from patients with late stage chronic hepatitis C. Yeh CT, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):524–9
Comparison of hepatitis C virus serotyping and genotyping in French patients. Castelain S, et al. **Clin Diagn Virol** 1997 Feb;7(3):159–65
Hepatitis C genotypes in Finland determined by RFLP. Pohjanpelto P, et al. **Clin Diagn Virol** 1996 Oct;7(1):7–16
Relationship between pretreatment viremia level and response to interferon-alpha therapy in chronic hepatitis C differs in viral type 1 and 2 infections. Tsubota A, et al. **Dig Dis Sci** 1996 Oct;41(10):1925–32
Genotyping of hepatitis C virus isolates from Basque Country, Spain. Cilla G, et al. **Epidemiol Infect** 1996 Dec; 117(3):533–6
Predominance of hepatitis C virus genotype 1b in Bulgaria [letter] Andonov A, et al. **Eur J Clin Microbiol Infect Dis** 1996 Jun;15(6):521–3
Phylogenetic analysis of hepatitis C virus isolates: correlation to viremia, liver function tests, and histology [letter; comment] Puoti C, et al. **Hepatology** 1997 Aug;26(2):514–5 . Comment on: Hepatology 1996 Nov;24(5):1003–9.
Phylogenetic analysis of hepatitis C virus isolates and their correlation to viremia, liver function tests, and histology [see comments] Zeuzem S, et al. **Hepatology** 1996 Nov; 24(5):1003–9. Comment in: Hepatology 1997 Aug;26(2):514–5.
Comparative evaluation of two serologic typing methods for hepatitis C virus. Cerino A, et al. **J Clin Microbiol** 1996 Mar;34(3):714–6
Differential prevalence of hepatitis C virus subtypes in healthy blood donors, patients on maintenance hemodialysis, and patients with hepatocellular carcinoma in Surabaya, Indonesia. Soetjipto, et al. **J Clin Microbiol** 1996 Dec;34(12):2875–80
Analysis of hepatitis C virus isolates by serotyping and genotyping. van Doorn LJ, et al. **J Clin Microbiol** 1996 Jul;34(7):1784–7
Assessment of commercial enzyme immunoassay for hepatitis C virus serotyping. Webber LM, et al. **J Clin Pathol** 1996 Dec;49(12):994–7
Hepatitis C virus subtype 3b infection in a hospital in Japan: epidemiological study. Ikeda K, et al. **J Gastroenterol** 1996 Dec;31(6):801–5
Use of NS-4 peptides to identify type-specific antibody to hepatitis C virus genotypes 1, 2, 3, 4, 5 and 6. Bhattacherjee V, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1737–48
Classification of hepatitis C virus variants in six major types based on analysis of the envelope 1 and nonstructural 5B genome regions and complete polyprotein sequences. de Lamballerie X, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):45–51
Sequence analysis of hepatitis C virus genotypes 1 to 5 reveals multiple novel subtypes in the Benelux countries. van Doorn LJ, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1871–6
Characterization of simple and complex hepatitis C virus quasispecies by heteroduplex gel shift analysis: correlation with nucleotide sequencing. Wilson JJ, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1763–71
Treatment of chronic hepatitis C with interferon alpha: long-term follow-up and prognostic relevance of HCV genotypes. Hopf U, et al. **J Hepatol** 1996;24(2 Suppl):67–73
Evaluation and comparison of different hepatitis C virus genotyping and serotyping assays. Lee JH, et al. **J Hepatol** 1997 May;26(5):1001–9
Hepatitis C virus types 7, 8 and 9 should be classified as type 6 subtypes. Mizokami M, et al. **J Hepatol** 1996 May; 24(5):622–4
Epidemiological, clinical and therapeutic associations of hepatitis C types in western European patients. Simmonds P, et al. **J Hepatol** 1996 May;24(5):517–24
Serotyping and genotyping of hepatitis C virus (HCV) strains in chronic HCV infection. Commission Hepatologie du CREGG. Club de Reflexion des Cabinets de Groupes en GastroEnterologie. Halfon P, et al. **J Med Virol** 1997 Aug; 52(4):391–5
Superinfection by homotypic virus in hepatitis C virus carriers: studies on patients with post-transfusion hepatitis. Kao JH, et al. **J Med Virol** 1996 Dec;50(4):303–8
Molecular analysis of mixed infection with hepatitis C virus and human immunodeficiency virus in a patient infected simultaneously. Mazza C, et al. **J Med Virol** 1996 Nov; 50(3):276–82
Genotype determination of hepatitis C virus from northern India: identification of a new subtype. Panigrahi AK, et al. **J Med Virol** 1996 Feb;48(2):191–8
Hepatitis C genotypes in patients with dual hepatitis B and C virus infection. Pontisso P, et al. **J Med Virol** 1996 Feb; 48(2):157–60
Discrepancy of hepatitis C virus genotypes as determined by phylogenetic analysis of partial NS5 and core sequences. Yun Z, et al. **J Med Virol** 1996 Jul;49(3):155–60
Hepatitis C virus genotypes in chronic hepatitis C of children. Bortolotti F, et al. **J Viral Hepat** 1996 Nov;3(6):323–7
Development of a simple restriction fragment length polymorphism (RFLP) based assay for HCV genotyping and comparative analysis with genotyping and serotyping tests. Thiers V, et al. **J Virol Methods** 1997 Apr;65(1):9–17
Hepatitis C virus serotypes and liver pathology. Guido M, et al. **Liver** 1996 Dec;16(6):353–7
Genotype analysis of hepatitis C virus among blood donors and inmates in Metro Manila, The Philippines. Katayama Y, et al. **Microbiol Immunol** 1996;40(7):525–9
Improved amplification system for detection of hepatitis C virus genome that simultaneously differentiates viral genotypes. Songsivilai S, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):237–43
Correlation between serological and genetic methods for typing hepatitis C virus [letter] Montesano L, et al. **Vox Sang** 1996;71(3):190–1
[Use of DNA sequence hybridization with specific oligonucleotide probes to identify hepatitis C virus genotypes] Domingo MJ, et al. **Enferm Infecc Microbiol Clin** 1996 Aug-Sep;14(7):433–5 (Eng. Abstr.) **(Spa)**

DRUG EFFECTS

Establishment of an in vitro assay system for screening hepatitis C virus protease inhibitors using high performance liquid chromatography. Sudo K, et al. **Antiviral Res** 1996 Aug;32(1):9–18
Selection of hepatitis C virus quasispecies during interferon treatment. Sakuma I, et al. **Arch Virol** 1996;141(10):1921–32
Prevalence of hepatitis C virus in plasma pools and the effectiveness of cold ethanol fractionation. Scheiblauer H, et al. **Clin Ther** 1996;18 Suppl B:59–70
Detection of hepatitis C virus RNA in serum and peripheral blood mononuclear cells in patients with chronic hepatitis C treated with interferon alpha. Basaras M, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):887–90
Acute hepatic toxicity during cyclic chemotherapy in non Hodgkin's lymphoma. Faggioli P, et al. **Haematologica** 1997 Jan-Feb;82(1):38–42
Pretreatment virus load and multiple amino acid substitutions in the interferon sensitivity-determining region predict the outcome of interferon treatment in patients with chronic genotype 1b hepatitis C virus infection [see comments] Chayama K, et al. **Hepatology** 1997 Mar;25(3):745–9. Comment in: Hepatology 1997 Mar;25(3):769–71.
The interferon sensitivity determining region: all hepatitis C virus isolates are not the same [editorial; comment] Herion D, et al. **Hepatology** 1997 Mar;25(3):769–71. Comment on: Hepatology 1997 Mar;25(3):740–4. Comment on: Hepatology 1997 Mar;25(3):745–9. Comment on: Hepatology 1997 Mar;25(3):750–3.
Mutations in the nonstructural 5A gene of European hepatitis C virus isolates and response to interferon alfa [see comments] Zeuzem S, et al. **Hepatology** 1997 Mar; 25(3):740–4. Comment in: Hepatology 1997 Mar;25(3):769–71.
Hepatitis C virus genotypes in patients with persistent infection--a preliminary report. Bogomolski-Yahalom V, et al. **Isr J Med Sci** 1997 Jan;33(1):18–22
Earlier loss of hepatitis C virus RNA in interferon therapy can predict a long-term response in chronic hepatitis C [see comments] Kakumu S, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):468–72. Comment in: J Gastroenterol Hepatol 1997 Jun;12(6):450–2.
Differential flotation centrifugation study of hepatitis C virus and response to interferon therapy. Nagasaka A, et al. **J Med Virol** 1997 Jun;52(2):190–4
Modulation of hepatitis C virus quasispecies heterogeneity by interferon-alpha and ribavirin therapy. González-Peralta RP, et al. **J Viral Hepat** 1997 Mar; 4(2):99–106
Virus inactivation of blood products by phenothiazine dyes and light. Mohr H, et al. **Photochem Photobiol** 1997 Mar; 65(3):441–5
Treatment with recombinant interferon-alpha 2a for patients with chronic hepatitis C: predictive factors for biochemical and virologic response. Osaka Liver Disease Study Group. Hagiwara H, et al. **Scand J Gastroenterol** 1996 Oct; 31(10):1021–6
Evidence that hepatitis C virus resistance to interferon is mediated through repression of the PKR protein kinase by the nonstructural 5A protein. Gale MJ Jr, et al. **Virology** 1997 Apr 14;230(2):217–27

ENZYMOLOGY

An enzyme-linked immunosorbent assay for detecting proteolytic activity of hepatitis C virus proteinase. Takeshita N, et al. **Anal Biochem** 1997 May 1;247(2):242-6

Establishment of an in vitro assay system for screening hepatitis C virus protease inhibitors using high performance liquid chromatography. Sudo K, et al. **Antiviral Res** 1996 Aug;32(1):9-18

Novel hepatitis C virus protease inhibitors: thiazolidine derivatives. Sudo K, et al. **Biochem Biophys Res Commun** 1997 Sep 18;238(2):643-7

Expression, purification, and partial characterization of HCV RNA polymerase. Yuan ZH, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):231-5

A zinc binding site in viral serine proteinases. De Francesco R, et al. **Biochemistry** 1996 Oct 15;35(41):13282-7

Crystal structure of the hepatitis C virus NS3 protease domain complexed with a synthetic NS4A cofactor peptide [published erratum appears in Cell 1997 Apr 4;89(1):159] Kim JL, et al. **Cell** 1996 Oct 18;87(2):343-55

Selection of RNA aptamers that bind specifically to the NS3 protease of hepatitis C virus. Urvil PT, et al. **Eur J Biochem** 1997 Aug 15;248(1):130-8

Expression of highly active recombinant NS3 protease domain of hepatitis C virus in E. coli. Vishnuvardhan D, et al. **FEBS Lett** 1997 Feb 3;402(2-3):209-12

Redesigning the substrate specificity of the hepatitis C virus NS3 protease. Failla CM, et al. **Fold Des** 1996;1(1):35-42

Targeting the Achilles' heel of hepatitis C virus. Lemon SM. **Hepatology** 1997 Apr;25(4):1035-7 (10 ref.)

Establishment of an in vitro assay to characterize hepatitis C virus NS3-4A protease trans-processing activity. Hamatake R, et al. **Intervirology** 1996;39(4):249-58

In vitro cleavage of hepatitis C virus polyprotein substrates by purified recombinant NS3 protease. D'Souza ED, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1729-36

Identification of the protease domain in NS3 of hepatitis C virus. Han DS, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):985-93

Purification and characterization of the NS3 serine protease domain of hepatitis C virus expressed in Saccharomyces cerevisiae. Markland W, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):39-43

Characterization of engineered hepatitis C virus NS3 protease inhibitors affinity selected from human pancreatic secretory trypsin inhibitor and minibody repertoires. Dimasi N, et al. **J Virol** 1997 Oct;71(10):7461-9

In vitro study of the NS2-3 protease of hepatitis C virus. Pieroni L, et al. **J Virol** 1997 Sep;71(9):6373-80

GB virus B and hepatitis C virus NS3 serine proteases share substrate specificity. Scarselli E, et al. **J Virol** 1997 Jul; 71(7):4985-9

Activity of purified hepatitis C virus protease NS3 on peptide substrates. Steinkühler C, et al. **J Virol** 1996 Oct; 70(10):6694-700

The NS3 proteinase domain of hepatitis C virus is a zinc-containing enzyme. Stempniak M, et al. **J Virol** 1997 Apr;71(4):2881-6

The helicase activity associated with hepatitis C virus nonstructural protein 3 (NS3). Tai CL, et al. **J Virol** 1996 Dec;70(12):8477-84

Construction of hepatitis C-SIN virus recombinants with replicative dependency on hepatitis C virus serine protease activity. Cho YG, et al. **J Virol Methods** 1997 May; 65(2):201-7

RNA-dependent RNA polymerase of hepatitis C virus. De Francesco R, et al. **Methods Enzymol** 1996;275:58-67

Generation of a novel poliovirus with a requirement of hepatitis C virus protease NS3 activity. Hahm B, et al. **Virology** 1996 Dec 15;226(2):318-26

Hepatitis C virus NS5B protein is a membrane-associated phosphoprotein with a predominantly perinuclear localization. Hwang SB, et al. **Virology** 1997 Jan 20; 227(2):439-46

Towards defining a minimal functional domain for NTPase and RNA helicase activities of the hepatitis C virus NS3 protein. Kim DW, et al. **Virus Res** 1997 May;49(1):17-25

GENETICS

Prevalence and significance of hepatitis C virus (HCV) genotypes in anti-HCV positive patients in northwest Croatia. Golubić D, et al. **Acta Med Croatica** 1997; 51(2):79-82

Relationship between response to interferon therapy and detection of hepatitis C virus RNA by differential flotation centrifugation. Wato M, et al. **Acta Med Okayama** 1996 Jun;50(3):139-44

Comparison of quantitative HCV RNA assays in chronic hepatitis C. Jacob S, et al. **Am J Clin Pathol** 1997 Mar; 107(3):362-7

Hepatic iron stainings in chronic hepatitis C patients with low HCV RNA levels: a predictive marker for IFN therapy. Akiyoshi F, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1463-6

Hepatitis C virus recurrence after liver transplantation: relationship to anti-HCV core IgM, genotype, and level of viremia. Crespo J, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1458-62

Influence of hepatitis C virus genotypes and HIV infection on histological severity of chronic hepatitis C. The Hepatitis/HIV Spanish Study Group. García-Samaniego J, et al. **Am J Gastroenterol** 1997 Jul;92(7):1130-4

Early loss of serum hepatitis C virus RNA can predict a sustained response to interferon therapy in patients with chronic hepatitis C. Karino Y, et al. **Am J Gastroenterol** 1997 Jan;92(1):61-5

Patterns of hepatitis C viremia in patients receiving hemodialysis. Umlauft F, et al. **Am J Gastroenterol** 1997 Jan;92(1):73-8

Both immunogenetic factors and HCV genotype can influence the outcome of chronic HCV infection [letter] Zavaglia C, et al. **Am J Gastroenterol** 1997 Apr;92(4):725-6

Increased risk of hepatocellular carcinoma in patients infected with hepatitis C genotype 1b. Zein NN, et al. **Am J Gastroenterol** 1996 Dec;91(12):2560-2

Transfection of HepG2 cells with infectious hepatitis C virus genome. Dash S, et al. **Am J Pathol** 1997 Aug;151(2):363-73

Detection of hepatitis C virus RNA using ligation-dependent polymerase chain reaction in formalin-fixed, paraffin-embedded liver tissues. Park YN, et al. **Am J Pathol** 1996 Nov;149(5):1485-91

Hepatitis C virus genotype, hepatitis C virus RNA titers, and response to interferon [letter; comment] Taliani G, et al. **Ann Intern Med** 1997 Jul 1;127(1):89. Comment on: Ann Intern Med 1996 Oct 15;125(8):634-9.

In vitro inhibition of hepatitis C virus gene expression by chemically modified antisense oligodeoxynucleotides. Vidalin O, et al. **Antimicrob Agents Chemother** 1996 Oct; 40(10):2337-44

Detection of hepatitis C virus RNA sequences in hepatocellular carcinoma and its precursors by microdissection polymerase chain reaction. Saito K, et al. **Arch Pathol Lab Med** 1997 Apr;121(4):400-3

Molecular characterization of hepatitis C and E viruses. Bradley DW, et al. **Arch Virol Suppl** 1993;7:1-14 (42 ref.)

Variability of the envelope regions of HCV in European isolates and its significance for diagnostic tools. Roggendorf M, et al. **Arch Virol Suppl** 1993;7:27-39

Quantitative detection of hepatitis C virus RNA in patients undergoing hemodialysis. de Medina M, et al. **ASAIO J** 1997 Jan-Feb;43(1):19-22

Hepatitis C genotypes in Australian haemophilia patients. Baker RI, et al. **Aust N Z J Med** 1996 Dec;26(6):789-92

Heterogeneity of hepatitis C virus. Smith DB, et al. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):243-55 (90 ref.)

HCV transmission through blood transfusion: are HCV-RNA titer in donor serum and genotype major determinants of infection outcome? Cardoso MS, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:225-30

Complete coding sequence of hepatitis C virus genotype 6a. Adams NJ, et al. **Biochem Biophys Res Commun** 1997 May 19;234(2):393-6

The complete coding sequence of hepatitis C virus genotype 5a, the predominant genotype in South Africa. Chamberlain RW, et al. **Biochem Biophys Res Commun** 1997 Jul 9; 236(1):44-9

The amino terminal deletion mutants of hepatitis C virus nonstructural protein NS5A function as transcriptional activators in yeast. Tanimoto A, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):360-4

Quantitative RT-PCR using a PCR-generated competitive internal standard. Fille M, et al. **Biotechniques** 1997 Jul; 23(1):34, 36

Transmission of hepatitis C virus in allografted patients: use of viral genotyping as an epidemiological marker. Gangneux JP, et al. **Bone Marrow Transplant** 1996 Dec; 18(6):1131-3

Hepatitis C virus genotypes and liver disease in patients undergoing allogeneic bone marrow transplantation. Locasciulli A, et al. **Bone Marrow Transplant** 1997 Feb; 19(3):237-40

Hepatitis C virus genotypes in Southern Brazil. Krug LP, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1629-32

Hepatitis C--diagnosis and monitoring. Urdea MS, et al. **Clin Chem** 1997 Aug;43(8 Pt 2):1507-11 (22 ref.)

Effective detection of active HCV infection: HCV RNA carrier state in a context free of hepatitis symptoms. Arapinis C, et al. **Clin Chim Acta** 1997 Feb 3;258(1):91-104

Comparison of hepatitis C virus serotyping and genotyping in French patients. Castelain S, et al. **Clin Diagn Virol** 1997 Feb;7(3):159-65

Performance of the automated COBAS AMPLICOR system for the detection of hepatitis C virus RNA. Kessler HH, et al. **Clin Diagn Virol** 1997 Feb;7(3):139-45

Hepatitis C genotypes in Finland determined by RFLP. Pohjanpelto P, et al. **Clin Diagn Virol** 1996 Oct;7(1):7-16

Genetic heterogeneity of hepatitis C virus. The clinical significance of genotypes and quasispecies behavior. Marrone A, et al. **Clin Lab Med** 1996 Jun;16(2):429-49 (74 ref.)

Prevalence and clinical expression of HCV-genotypes in haemodialysis-patients of two geographically remote countries: Belgium and Saudi-Arabia. Bosmans JL, et al. **Clin Nephrol** 1997 Apr;47(4):256-62

Hepatitis C virus genotypes in hemodialyzed patients: a multicentric study. Goessens C, et al. **Clin Nephrol** 1997 Jun;47(6):367-71

PCR detected hepatitis C virus genome in the brain of a case with progressive encephalomyelitis with rigidity. Bolay H, et al. **Clin Neurol Neurosurg** 1996 Nov;98(4):305-8

Prevalence of hepatitis C virus antibodies and evaluation of hepatitis C virus genotypes in patients with lichen planus. Imhof M, et al. **Dermatology** 1997;195(1):1-5

cDNA sequencing of the 5' noncoding region (5' NCR) to determine hepatitis C genotypes in patients with chronic hepatitis C. O'Brien CB, et al. **Dig Dis Sci** 1997 May; 42(5):1087-93

Genotyping of hepatitis C virus isolates from Basque Country, Spain. Cilla G, et al. **Epidemiol Infect** 1996 Dec; 117(3):533-6

Selection of RNA aptamers that bind specifically to the NS3 protease of hepatitis C virus. Urvil PT, et al. **Eur J Biochem** 1997 Aug 15;248(1):130-8

Quantitative analysis of HCV RNA and genotype in patients with chronic hepatitis C accompanied by oral lichen planus. Nagao Y, et al. **Eur J Clin Invest** 1996 Jun;26(6):495-8

Prevalence of hepatitis C virus genotypes in southern Italy. Cicciarello S, et al. **Eur J Epidemiol** 1997 Jan;13(1):49-54

HCV transmission in family members of subjects with HCV related chronic liver disease. Demelia L, et al. **Eur J Epidemiol** 1996 Feb;12(1):45-50

HCV-RNA levels play an important role independently of genotype in predicting response to interferon therapy. Picciotto A, et al. **Eur J Gastroenterol Hepatol** 1997 Jan; 9(1):67-9

Assessment of liver histology in patients with hepatitis C and normal transaminase levels. Stanley AJ, et al. **Eur J Gastroenterol Hepatol** 1996 Sep;8(9):869-72

In vivo translational efficiency of different hepatitis C virus 5'-UTRs. Buratti E, et al. **FEBS Lett** 1997 Jul 14; 411(2-3):275-80

Mutations in the nonstructural 5A region of hepatitis C virus and response of chronic hepatitis C to interferon alfa. Squadrito G, et al. **Gastroenterology** 1997 Aug; 113(2):567-72

A potential therapeutic application of hairpin ribozymes: in vitro and in vivo studies of gene therapy for hepatitis C virus infection. Welch PJ, et al. **Gene Ther** 1996 Nov; 3(11):994-1001

Quantification of serum hepatitis C virus core protein level in patients chronically infected with different hepatitis C virus genotypes. Orito E, et al. **Gut** 1996 Dec;39(96):876-80

Clinical relevance of hepatitis C virus genotypes. Simmonds P. **Gut** 1997 Mar;40(3):291-3

Predictive factors for efficacy of interferon therapy in chronic hepatitis type C. Ishibashi K, et al. **Hepatogastroenterology** 1995 Sep-Oct;42(5):535-41

Hypervariable region sequence in cryoglobulin-associated hepatitis C virus in sera of patients with chronic hepatitis C: relationship to antibody response against hypervariable region genome. Aiyama T, et al. **Hepatology** 1996 Dec; 24(6):1346-50

Lack of correlation between hepatitis C virus genotypes and clinical course of hepatitis C virus-related cirrhosis. Benvegnù L, et al. **Hepatology** 1997 Jan;25(1):211-5

Hepatitis C virus 1b, cirrhosis, and hepatocellular carcinoma [editorial; comment] Brechot C. **Hepatology** 1997 Mar; 25(3):772-4. Comment on: Hepatology 1997 Mar;25(3):754-8.

Hepatitis C virus genotypes and risk of hepatocellular carcinoma in cirrhosis: a prospective study [see comments] Bruno S, et al. **Hepatology** 1997 Mar;25(3):754-8. Comment in: Hepatology 1997 Mar;25(3):772-4.

Serum autoantibodies in chronic hepatitis C: comparison with autoimmune hepatitis and impact on the disease profile. Cassani F, et al. **Hepatology** 1997 Sep;26(3):561-6

Pretreatment virus load and multiple amino acid substitutions in the interferon sensitivity-determining region predict the outcome of interferon treatment in patients with chronic genotype 1b hepatitis C virus infection [see comments] Chayama K, et al. **Hepatology** 1997 Mar;25(3):745-9. Comment in: Hepatology 1997 Mar;25(3):769-71.

Hepatitis B and C virus infection, alcohol drinking, and hepatocellular carcinoma: a case-control study in Italy. Brescia HCC Study. Donato F, et al. **Hepatology** 1997 Sep; 26(3):579-84

Hepatitis C viral quasispecies and liver damage in patients with chronic hepatitis C virus infection. Hayashi J, et al. **Hepatology** 1997 Mar;25(3):697-701

The interferon sensitivity determining region: all hepatitis C virus isolates are not the same [editorial; comment] Herion D, et al. **Hepatology** 1997 Mar;25(3):769-71. Comment on: Hepatology 1997 Mar;25(3):740-4. Comment on: Hepatology 1997 Mar;25(3):745-9. Comment on: Hepatology 1997 Mar;25(3):750-3.

Transgenic expression of hepatitis C virus structural proteins in the mouse. Kawamura T, et al. **Hepatology** 1997 Apr; 25(4):1014-21

Analysis of genotypes and amino acid residues 2209 to 2248 of the NS5A region of hepatitis C virus in relation to the response to interferon-beta therapy [see comments] Kurosaki M, et al. **Hepatology** 1997 Mar;25(3):750-3. Comment in: Hepatology 1997 Mar;25(3):769-71.

Hepatitis C virus genome complexity correlates with response to interferon therapy: a study in French patients with chronic hepatitis C. Le Guen B, et al. **Hepatology** 1997 May;25(5):1250-4

The molecular virology of hepatitis C. Major ME, et al. **Hepatology** 1997 Jun;25(6):1527-38 (163 ref.)

Analysis of histopathological manifestations of chronic hepatitis C virus infection with respect to virus genotype. Mihm S, et al. **Hepatology** 1997 Mar;25(3):735-9

Effects of interferon treatment on the antiviral T-cell response in hepatitis C virus genotype 1b- and genotype 2c-infected patients. Missale G, et al. **Hepatology** 1997 Sep; 26(3):792-7

HEPATITIS C-LIKE VIRUSES

The "gold-standard," accuracy, and the current concepts: hepatitis C virus genotype and viremia [editorial] Ohno T, et al. **Hepatology** 1996 Nov;24(5):1312-5

The hepatitis C virus: overview. Purcell R. **Hepatology** 1997 Sep;26(3 Suppl 1):11S-14S (39 ref.)

Hepatitis C virus genotype 1b and risk of hepatocellular carcinoma [letter] Romeo R, et al. **Hepatology** 1997 Oct; 26(4):1077

Relationship between biochemical, virological, and histological response during interferon treatment of chronic hepatitis C. Shiffman ML, et al. **Hepatology** 1997 Sep; 26(3):780-5

The clinical significance of changes in genetic heterogeneity of the hypervariable region 1 in chronic hepatitis C with interferon therapy. Shindo M, et al. **Hepatology** 1996 Nov; 24(5):1018-23

Relation of disease activity during chronic hepatitis C infection to complexity of hypervariable region 1 quasispecies. Yuki N, et al. **Hepatology** 1997 Feb; 25(2):439-44

Mutations in the nonstructural 5A gene of European hepatitis C virus isolates and response to interferon alfa [see comments] Zeuzem S, et al. **Hepatology** 1997 Mar; 25(3):740-4. Comment in: Hepatology 1997 Mar;25(3):769-71.

Severity of liver disease in liver transplantation recipients with hepatitis C virus infection: relationship to genotype and level of viremia. Zhou S, et al. **Hepatology** 1996 Nov; 24(5):1041-6

Quantitation of HCV viraemia by branched DNA signal amplification in patients treated with alpha-interferon--a longitudinal study. Iuliano R, et al. **Infection** 1996 Jul-Aug; 24(4):292-6

Evaluation of the Amplicor HCV test: experiences after 1 year of routine use in a diagnostic laboratory. Seme K, et al. **Infection** 1996 Mar-Apr;24(2):140-3

Hepatitis C virus 1b is the dominant genotype in HCV-related carcinogenesis: a case-control study. Hatzakis A, et al. **Int J Cancer** 1996 Sep 27;68(1):51-3

Alcohol intake increases hepatitis C virus-induced hepatocellular injury. Katakami Y, et al. **Intern Med** 1995 Dec;34(12):1153-7

Hepatitis C virus genotypes in patients with persistent infection--a preliminary report. Bogomolski-Yahalom V, et al. **Isr J Med Sci** 1997 Jan;33(1):18-22

Variations in the hypervariable region 1 of the envelope region E2 of hepatitis C virus RNA appear associated with virus persistence independently of liver disease. Brunetto MR, et al. **Ital J Gastroenterol** 1996 Dec;28(9):499-504

High prevalence of hepatitis C virus (HCV) genotype 2 in Italian patients with chronic liver disease. Sartori M, et al. **Ital J Gastroenterol** 1996 Oct-Nov;28(8):452-6

Serum hepatitis C virus titers in the progression of type C chronic liver disease. With special emphasis on patients with type 1b infection. Kao JH, et al.
J Clin Gastroenterol 1996 Dec;23(4):280-3

Enhanced amplification of hepatitis C virus (HCV) cDNA by PCR: detection of HCV RNA in archival sera. Beardsley AM, et al. **J Clin Microbiol** 1996 Jun; 34(6):1581-2

Identification of numerous hepatitis C virus genotypes in Montreal, Canada. Bernier L, et al. **J Clin Microbiol** 1996 Nov;34(11):2815-8

Comparative study of three methods for genotyping hepatitis C virus strains in samples from Spanish patients. Forns X, et al. **J Clin Microbiol** 1996 Oct;34(10):2516-21

Genotypic distribution of hepatitis C virus in different regions of Thailand. Kanistanon D, et al. **J Clin Microbiol** 1997 Jul;35(7):1772-6

Genotyping of hepatitis C virus isolates from Lebanese hemodialysis patients by reverse transcription-PCR and restriction fragment length polymorphism analysis of 5' noncoding region. Matar GM, et al. **J Clin Microbiol** 1996 Oct;34(10):2623-4

Comparison of a competitive combined reverse transcription-PCR assay with a branched-DNA assay for hepatitis C virus RNA quantitation. Mayerat C, et al.
J Clin Microbiol 1996 Nov;34(11):2702-6

Rapid reverse transcription-PCR detection of hepatitis C virus RNA in serum by using the TaqMan fluorogenic detection system. Morris T, et al. **J Clin Microbiol** 1996 Dec;34(12):2933-6

Determination of genotypes of hepatitis C virus in Venezuela by restriction fragment length polymorphism. Pujol FH, et al. **J Clin Microbiol** 1997 Jul;35(7):1870-2

Hepatitis C virus genotypes in northern Italy: clinical and virological features. Ravaggi A, et al. **J Clin Microbiol** 1996 Nov;34(11):2822-5

Second-generation line probe assay for hepatitis C virus genotyping. Stuyver L, et al. **J Clin Microbiol** 1996 Sep; 34(9):2259-66

Long PCR and its application to hepatitis viruses: amplification of hepatitis A, hepatitis B, and hepatitis C virus genomes. Tellier R, et al. **J Clin Microbiol** 1996 Dec; 34(12):3085-91

Analysis of hepatitis C virus isolates by serotyping and genotyping. van Doorn LJ, et al. **J Clin Microbiol** 1996 Jul;34(7):1784-7

Hepatitis C virus genotypes in patients with hepatocellular carcinoma. Akkiz H, et al.
J Environ Pathol Toxicol Oncol 1996;15(2-4):85-8

Analysis of the core region of HCV genome isolated from patients with chronic hepatitis C during intervals of normal ALT concentration. Arataki K, et al. **J Gastroenterol** 1996 Feb;31(1):140-2

Mutations in a hydrophilic part of the core gene of hepatitis C virus in patients with hepatocellular carcinoma in China. Shimizu I, et al. **J Gastroenterol** 1997 Feb;32(1):47-55

Hepatitis C virus genotypes in a cohort of Australian blood donors and haemophiliac and liver transplant patients. Chen J, et al. **J Gastroenterol Hepatol** 1997 Feb;12(2):182-7

Phylogenetic tree-based epidemiological analysis of hepatitis C virus transmission in a region of Japan with a high prevalence of infection. Hara T, et al.
J Gastroenterol Hepatol 1996 Jul;11(7):641-5

Response to interferon in chronic hepatitis C due to mixed genotype infection. Horiike N, et al.
J Gastroenterol Hepatol 1996 Apr;11(4):353-7

Hepatitis C transmission between spouses. Koda T, et al.
J Gastroenterol Hepatol 1996 Nov;11(11):1001-5

Real-time monitoring of HCV-RNA by single tube assay kit and potential importance for predicting virological sustained response in patients with chronic hepatitis C. Shiratori Y, et al. **J Gastroenterol Hepatol** 1996 Aug; 11(8):705-11

Epidemiology of genotypes of hepatitis C virus in Japanese patients with type C chronic liver diseases: a multi-institution analysis. Yamada G, et al.
J Gastroenterol Hepatol 1995 Sep-Oct;10(5):538-45

Complete nucleotide sequence of a type 4 hepatitis C virus variant, the predominant genotype in the Middle East. Chamberlain RW, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1341-7

Classification of hepatitis C virus variants in six major types based on analysis of the envelope 1 and nonstructural 5B genome regions and complete polyprotein sequences. de Lamballerie X, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):45-51

Long-term evolution of the 5'UTR and a region of NS4 containing a CTL epitope of hepatitis C virus in two haemophilic patients. Devereux HL, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):583-90

Analysis of hepatitis C virus quasispecies populations by temperature gradient gel electrophoresis. Lu M, et al.
J Gen Virol 1995 Apr;76 (Pt 4):881-7

Differences in hepatitis C virus quasispecies composition between liver, peripheral blood mononuclear cells and plasma. Maggi F, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1521-5

Purification and characterization of the NS3 serine protease domain of hepatitis C virus expressed in Saccharomyces cerevisiae. Markland W, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):39-43

Heterogeneity of hepatitis C virus genotype 2 variants in West Central Africa (Guinea Conakry). Ruggieri A, et al.
J Gen Virol 1996 Sep;77 (Pt 9):2073-6

Evolutionary analysis of variants of hepatitis C virus found in South-East Asia: comparison with classifications based upon sequence similarity. Simmonds P, et al.
J Gen Virol 1996 Dec;77 (Pt 12):3013-24

The origin of hepatitis C virus genotypes. Smith DB, et al.
J Gen Virol 1997 Feb;78 (Pt 2):321-8

Variation of the hepatitis C virus 5' non-coding region: implications for secondary structure, virus detection and typing. The International HCV Collaborative Study Group. Smith DB, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1749-61

Genetic analysis of the hepatitis C virus (HCV) genome from HCV-infected human T cells. Sugiyama K, et al.
J Gen Virol 1997 Feb;78 (Pt 2):329-36

Sequence analysis of hepatitis C virus genotypes 1 to 5 reveals multiple novel subtypes in the Benelux countries. van Doorn LJ, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1871-6

Characterization of simple and complex hepatitis C virus quasispecies by heteroduplex gel shift analysis: correlation with nucleotide sequencing. Wilson JJ, et al.
J Gen Virol 1995 Jul;76 (Pt 7):1763-71

Mother-to-child transmission of a hepatitis C virus variant with an insertional mutation in its hypervariable region. Aizaki H, et al. **J Hepatol** 1996 Nov;25(5):608-13

Permanent response to alpha-interferon therapy in chronic hepatitis C is preceded by rapid clearance of HCV-RNA from serum. Ampurdanés S, et al. **J Hepatol** 1996 Dec; 25(6):827-32

Quantitative liver parameters of HCV infection: relation to HCV genotypes, viremia and response to interferon treatment. Ballardini G, et al. **J Hepatol** 1997 Apr; 26(4):779-86

Distribution of hepatitis C virus genotypes in German patients with chronic hepatitis C: correlation with clinical and virological parameters. Berg T, et al. **J Hepatol** 1997 Mar;26(3):484-91

Chronic hepatitis C: effect of alcohol on hepatitic activity and viral titre. Cromie SL, et al. **J Hepatol** 1996 Dec; 25(6):821-6

Hepatitis C virus antibody, viral RNA and genotypes in leprous patients in Japan. Egawa K, et al. **J Hepatol** 1996 Apr;24(4):397-402

Hepatitis C virus genotypes and subtypes in patients with hepatitis C, with and without cryoglobulinemia. Frangeul L, et al. **J Hepatol** 1996 Oct;25(4):427-32

Clinical evaluation of a single reaction, diagnostic polymerase chain reaction assay for the detection of hepatitis C virus RNA. Gerken G, et al. **J Hepatol** 1996 Jan;24(1):33-7

Low hepatitis C viremia levels in patients with anti-liver/kidney microsomal antibody type 1 positive chronic hepatitis. Giostra F, et al. **J Hepatol** 1996 Oct; 25(4):433-8

Clinical presentation of GB-C virus infection in drug abusers with chronic hepatitis C. Goeser T, et al. **J Hepatol** 1997 Mar;26(3):498-502

Impact of various handling and storage conditions on quantitative detection of hepatitis C virus RNA. Halfon P, et al. **J Hepatol** 1996 Sep;25(3):307-11

Persistent expression of hepatitis C virus genome in primary tumor and adrenal metastasis of a hepatocellular carcinoma developed in a non-cirrhotic liver [letter] Herr W, et al. **J Hepatol** 1996 Jul;25(1):122

Serum HCV RNA levels assessed by quantitative NASBA: stability of viral load over time, and lack of correlation with liver disease. The Trent HCV Study Group. Hollingsworth RC, et al. **J Hepatol** 1996 Sep;25(3):301-6

Mutations of hepatitis C virus 1b NS5A 2209-2248 amino acid sequence do not predict the response to recombinant interferon-alfa therapy in French patients. Khorsi H, et al. **J Hepatol** 1997 Jul;27(1):72-7

Evaluation and comparison of different hepatitis C virus genotyping and serotyping assays. Lee JH, et al.
J Hepatol 1997 May;26(5):1001-9

HCV genotypes in patients with liver disease of different stages and severity. Mangia A, et al. **J Hepatol** 1997 Jun; 26(6):1173-8

Biological and clinicopathological features associated with hepatitis C virus type 5 infections. Murphy DG, et al.
J Hepatol 1996 Jan;24(1):109-13

Evolution of hepatitis C virus quasispecies in mothers and infants infected through mother-to-infant transmission. Ni YH, et al. **J Hepatol** 1997 May;26(5):967-74

Cleavage of viral RNA and inhibition of viral translation by hepatitis C virus RNA-specific hammerhead ribozyme in vitro. Ohkawa K, et al. **J Hepatol** 1997 Jul;27(1):78-84

Unexpected high prevalence of hepatitis C virus genotype 4 in Southern Spain. Sánchez-Quijano A, et al.
J Hepatol 1997 Jul;27(1):25-9

Effect of immunosuppression on composition of quasispecies population of hepatitis C virus in patients with chronic hepatitis C coinfected with human immunodeficiency virus. Toyoda H, et al. **J Hepatol** 1997 May;26(5):975-82

Quasispecies nature of hepatitis C virus and response to alpha interferon: significance as a predictor of direct response to interferon. Toyoda H, et al. **J Hepatol** 1997 Jan; 26(1):6-13

Identification of hepatitis B virus integration in hepatitis C virus-infected hepatocellular carcinoma tissues. Urashima T, et al. **J Hepatol** 1997 Apr;26(4):771-8

Hepatitis C virus density heterogeneity and viral titre in acute and chronic infection: a comparison of immunodeficient and immunocompetent patients. Watson JP, et al.
J Hepatol 1996 Nov;25(5):599-607

Sequence analysis of hypervariable region of hepatitis C virus (HCV) associated with immune complex in patients with chronic HCV infection. Aiyama T, et al. **J Infect Dis** 1996 Dec;174(6):1316-20

The influence of age on the prevalence of hepatitis C virus subtypes 1a and 1b. Feucht HH, et al. **J Infect Dis** 1997 Mar;175(3):685-8

Assessment of hepatitis C virus quasispecies heterogeneity by gel shift analysis: correlation with response to interferon therapy. Polyak SJ, et al. **J Infect Dis** 1997 May; 175(5):1101-7

The association between hepatitis C virus genotype and human immunodeficiency virus disease progression in a cohort of hemophilic men [see comments] Sabin CA, et al. **J Infect Dis** 1997 Jan;175(1):164-8. Comment in: J Infect Dis 1997 Aug;176(2):542-3.

Distribution of hepatitis C virus (HCV) RNA in whole blood and blood cell fractions: plasma HCV RNA analysis underestimates circulating virus load. Schmidt WN, et al.
J Infect Dis 1997 Jul;176(1):20-6

Distribution of infecting hepatitis C virus genotypes in end-stage liver disease patients at a large American transplantation center. Vargas HE, et al. **J Infect Dis** 1997 Feb;175(2):448-50

HCV genotypes in Morocco. Benani A, et al.
J Med Virol 1997 Aug;52(4):396-8

Nosocomial transmission of hepatitis C virus in haemodialysis patients. de Lamballerie X, et al. **J Med Virol** 1996 Aug; 49(4):296-302

Relevance of RIBA-3 supplementary test to HCV PCR positivity and genotypes for HCV confirmation of blood donors. Dow BC, et al. **J Med Virol** 1996 Jun;49(2):132-6

Serotyping and genotyping of hepatitis C virus (HCV) strains in chronic HCV infection. Commission Hepatologie du CREGG. Club de Reflexion des Cabinets de Groupes en GastroEnterologie. Halfon P, et al. **J Med Virol** 1997 Aug; 52(4):391-5

Absence of extensive genetic heterogeneity of hepatitis C virus in antibody-negative chronic hepatitis C. Kao JH, et al. **J Med Virol** 1996 Jun;49(2):87-90

Positive and negative strand of hepatitis C virus RNA sequences in peripheral blood mononuclear cells in patients with chronic hepatitis C: no correlation with viral genotypes 1b, 2a, and 2b. Kao JH, et al. **J Med Virol** 1997 Jul;52(3):270-4

Evaluation of two simplified methods for genotyping hepatitis C virus. Khan RU, et al. **J Med Virol** 1997 May; 52(1):35-41

Increased frequency of HLA DR13 in hepatitis C virus carriers with persistently normal ALT levels. Kuzushita N, et al. **J Med Virol** 1996 Jan;48(1):1–7

Genotypes of hepatitis C virus in Nigeria. Oni AO, et al. **J Med Virol** 1996 Jul;49(3):178–86

Genotype determination of hepatitis C virus from northern India: identification of a new subtype. Panigrahi AK, et al. **J Med Virol** 1996 Feb;48(2):191–8

Hepatitis C (HCV) genotype and viral titer distribution among Argentinean hemophilic patients in the presence or absence of human immunodeficiency virus (HIV) co-infection. Picchio GR, et al. **J Med Virol** 1997 Jun; 52(2):219–25

Comparison of HCV RNA assays for the detection and quantification of hepatitis C virus RNA levels in serum of patients with chronic hepatitis C treated with interferon. Trabaud MA, et al. **J Med Virol** 1997 May;52(1):105–12

Persistence of hepatitis C virus RNA in established human hepatocellular carcinoma cell lines. Tsuboi S, et al. **J Med Virol** 1996 Feb;48(2):133–40

Hepatitis C virus genotypes in French haemophiliacs: kinetics and reappraisal of mixed infections. Tuveri R, et al. **J Med Virol** 1997 Jan;51(1):36–41

Serological and molecular analysis of hepatitis C virus envelope regions 1 and 2 during acute and chronic infections in chimpanzees. van Doorn LJ, et al. **J Med Virol** 1997 Aug;52(4):441–50

Infection with GB virus C and hepatitis C virus in hemodialysis patients and blood donors in Beijing. Wang Y, et al. **J Med Virol** 1997 May;52(1):26–30

Discrepancy of hepatitis C virus genotypes as determined by phylogenetic analysis of partial NS5 and core sequences. Yun Z, et al. **J Med Virol** 1996 Jul;49(3):155–60

Characteristics of nucleotide substitution in the hepatitis C virus genome: constraints on sequence change in coding regions at both ends of the genome. Smith DB, et al. **J Mol Evol** 1997 Sep;45(3):238–46

The distribution of hepatitis C virus genotypes in Turkish patients. Abacioglu YH, et al. **J Viral Hepat** 1995; 2(6):297–301

Genotypic variation, clinical and histological characteristics of chronic hepatitis C detected at blood donor screening. Bird GL, et al. **J Viral Hepat** 1995;2(5):261–5

Hepatitis C virus genotypes in chronic hepatitis C of children. Bortolotti F, et al. **J Viral Hepat** 1996 Nov;3(6):323–7

Development of a quantitative PCR assay for monitoring HCV viraemia levels in patients with chronic hepatitis C. Colucci G, et al. **J Viral Hepat** 1997;4 Suppl 1:75–8

Longitudinal genotype analysis and quantification of hepatitis C virus in haemophilic patients receiving interferon-alpha therapy. Devereux H, et al. **J Viral Hepat** 1996 Jan; 3(1):43–8

Clinical relevance of hepatitis C virus quasispecies. Enomoto N, et al. **J Viral Hepat** 1995;2(6):267–72 (27 ref.)

Hepatitis C virus genotypes in patients with chronic liver disease and haemodialysis patients from Saudi Arabia. al-Faleh FZ, et al. **J Viral Hepat** 1995;2(6):293–6

Genotypes and multiple infections with hepatitis C virus in patients with haemophilia A in Japan. Fujimura Y, et al. **J Viral Hepat** 1996 Mar;3(2):79–84

HCV cDNA transfection to HepG2 cells. Hiramatsu N, et al. **J Viral Hepat** 1997;4 Suppl 1:61–7

Hepatitis C virus RNA quantification in right and left lobes of the liver in patients with chronic hepatitis C. Idrovo V, et al. **J Viral Hepat** 1996 Sep;3(5):239–46

Hepatitis C virus infection and mixed cryoglobulinaemia: assessment of HCV RNA copy numbers in supernatant, cryoprecipitate and non-liver cells. Manzin A, et al. **J Viral Hepat** 1996 Nov;3(6):285–92

Variations of hepatitis C virus NS5B sequence (nucleotides 8261–8566) do not correlate with response to interferon-alpha therapy. Nelson DR, et al. **J Viral Hepat** 1995;2(6):285–92

Investigation of the pattern of diversity of hepatitis C virus in relation to times of transmission. Simmonds P, et al. **J Viral Hepat** 1997;4 Suppl 1:69–74 (13 ref.)

Stability of hepatitis C virus RNA in serum from samples collected in a closed-tube system for serum separation and transport, as measured by a quantitative competitive PCR assay. Trabaud MA, et al. **J Viral Hepat** 1996 Jul;3(4):207–9

Secondary structure determination of the conserved 98-base sequence at the 3' terminus of hepatitis C virus genome RNA. Blight KJ, et al. **J Virol** 1997 Oct;71(10):7345–52

Chimeric Sindbis viruses dependent on the NS3 protease of hepatitis C virus. Filocamo G, et al. **J Virol** 1997 Feb; 71(2):1417–27

The sequence element of the internal ribosome entry site and a 25-kilodalton cellular protein contribute to efficient internal initiation of translation of hepatitis C virus RNA. Fukushi S, et al. **J Virol** 1997 Feb;71(2):1662–6

Tracking hepatitis C virus quasispecies major and minor variants in symptomatic and asymptomatic liver transplant recipients. Gretch DR, et al. **J Virol** 1996 Nov; 70(11):7622–31

Antisense oligonucleotide inhibition of hepatitis C virus gene expression in transformed hepatocytes. Hanecak R, et al. **J Virol** 1996 Aug;70(8):5203–12

Elimination of hepatitis C virus RNA in infected human hepatocytes by adenovirus-mediated expression of ribozymes. Lieber A, et al. **J Virol** 1996 Dec;70(12):8782–91

Nuclear localization of the NS3 protein of hepatitis C virus and factors affecting the localization. Muramatsu S, et al. **J Virol** 1997 Jul;71(7):4954–61

Sequence analysis of the hepatitis C virus genome recovered from serum, liver, and peripheral blood mononuclear cells of infected chimpanzees. Shimizu YK, et al. **J Virol** 1997 Aug;71(8):5769–73

Specific interaction of polypyrimidine tract-binding protein with the extreme 3'-terminal structure of the hepatitis C virus genome, the 3'X. Tsuchihara K, et al. **J Virol** 1997 Sep;71(9):6720–6

A DNA hybridization method for typing hepatitis C virus genotype 2c. Biasin MR, et al. **J Virol Methods** 1997 May; 65(2):307–15

Direct blotting electrophoresis for sequencing and genotyping hepatitis C virus. Castelain S, et al. **J Virol Methods** 1997 May;65(2):237–43

Construction of hepatitis C-SIN virus recombinants with replicative dependency on hepatitis C virus serine protease activity. Cho YG, et al. **J Virol Methods** 1997 May; 65(2):201–7

Rapid and sensitive genotyping of hepatitis C virus by single-strand conformation polymorphism. Lareu RR, et al. **J Virol Methods** 1997 Feb;64(1):11–8

Serologically defined genotypes of hepatitis C virus among Japanese patients with chronic hepatitis C. Mizoguchi N, et al. **J Virol Methods** 1996 Apr 26;58(1-2):71–9

A second-generation method of genotyping hepatitis C virus by the polymerase chain reaction with sense and antisense primers deduced from the core gene. Okamoto H, et al. **J Virol Methods** 1996 Mar;57(1):31–45

Quasispecies analysis in hepatitis C virus infection by fluorescent single strand conformation polymorphism. Peters T, et al. **J Virol Methods** 1997 Feb;64(1):95–102

Comparison of competitive and non-competitive reverse transcription-polymerase chain reaction (RT-PCR) for the quantification of hepatitis C virus (HCV) RNA. Ravaggi A, et al. **J Virol Methods** 1997 Apr;65(1):123–9

Development of a simple restriction fragment length polymorphism (RFLP) based assay for HCV genotyping and comparative analysis with genotyping and serotyping tests. Thiers V, et al. **J Virol Methods** 1997 Apr;65(1):9–17

Comparison between cytomegalovirus promoter and elongation factor-1 alpha promoter-driven constructs in the establishment of cell lines expressing hepatitis C virus core protein. Tokushige K, et al. **J Virol Methods** 1997 Feb;64(1):73–80

Comparative evaluation of five rapid methods for identifying subtype 1b and 2c hepatitis C virus isolates. Vatteroni M, et al. **J Virol Methods** 1997 Jul;66(2):187–94

The genotypes of hepatitis C virus in patients with chronic hepatitis C virus infection in southern Taiwan. Yu ML, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Nov; 12(11):605–12

Hepatitis C virus genotypes in Korea and their relationship to clinical outcome in type C chronic liver diseases. Han CJ, et al. **Korean J Intern Med** 1997 Jan;12(1):21–7

Viral loads and E2/NS1 region sequences of hepatitis C virus in hepatocellular carcinoma and surrounding liver. Park CK, et al. **Korean J Intern Med** 1997 Jan;12(1):28–33

The relationship of histology to genotype in chronic HCV infection. Booth JC, et al. **Liver** 1997 Jun;17(3):144–51

Genotype, serum level of hepatitis C virus RNA and liver histology as predictors of response to interferon-alpha 2a therapy in Japanese patients with chronic hepatitis C. Mizokami M, et al. **Liver** 1996 Feb;16(1):23–7

Circulating HCV-RNA, HCV genotype, and liver histology in asymptomatic individuals reactive for anti-HCV antibody and their follow-up study. Okanoue T, et al. **Liver** 1996 Aug;16(4):241–7

Virological characterization and liver histology in HCV positive subjects with normal and elevated ALT levels. Rossini A, et al. **Liver** 1997 Jun;17(3):133–8

Hepatitis C virus infection-associated markers in sera from blood donors in Surabaya, Indonesia. Darmadi S, et al. **Microbiol Immunol** 1996;40(5):401–5

Sequence variation of the hypervariable region in HCV carriers with normal ALT levels: a comparison with symptomatic carriers. Murashima S, et al. **Microbiol Immunol** 1996;40(12):941–7

Genotype distribution and transmission of hepatitis C virus (HCV) in French haemodialysed patients. Bouchardeau F, et al. **Nephrol Dial Transplant** 1995 Dec;10(12):2250–2

Hepatitis C virus genotype in anti-HCV-positive hemodialysed patients. Colleoni N, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2258–64

Structure, genomic organization, replication and variability of hepatitis C virus. Pozzetto B, et al. **Nephrol Dial Transplant** 1996;11 Suppl 4:2–5 (11 ref.)

Demonstration and distribution of HCV RNA sequences by in situ hybridization and HCV-related proteins by immunohistochemistry in the liver tissue of patients with chronic HCV infection. Sansonno D, et al. **Pathobiology** 1995;63(5):239–48

The incidence of viremia and the heterogeneity of hepatitis C virus genotypes among blood donors, hemophiliacs and patients with chronic liver disease. Kuperan P, et al. **Pathology** 1996 Nov;28(4):348–51

Analysis of the hypervariable region of hepatitis C virus E2/NS1 gene in an infant infected by blood transfusion. Sugiyama K, et al. **Pediatr Res** 1997 Aug;42(2):247–50

Translation of hepatitis C virus genome. Ali N, et al. **Princess Takamatsu Symp** 1995;25:99–110 (48 ref.)

Genetic heterogeneity of the hepatitis C virus. Bukh J, et al. **Princess Takamatsu Symp** 1995;25:75–91 (72 ref.)

In vivo transfection of rat liver with hepatitis C virus cDNA using cationic liposome-mediated gene delivery. Hayashi N, et al. **Princess Takamatsu Symp** 1995;25:143–9 (22 ref.)

Mechanism of translation initiation on hepatitis C virus RNA. Nomoto A, et al. **Princess Takamatsu Symp** 1995;25:111–9 (30 ref.)

The La antigen binds 5' noncoding region of the hepatitis C virus RNA in the context of the initiator AUG codon and stimulates internal ribosome entry site-mediated translation. Ali N, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2249–54

Sialadenitis histologically resembling Sjogren syndrome in mice transgenic for hepatitis C virus envelope genes. Koike K, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):233–6

Transcripts from a single full-length cDNA clone of hepatitis C virus are infectious when directly transfected into the liver of a chimpanzee. Yanagi M, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8738–43

Hepatitis C virus genotypes: molecular basis and clinical significance. Kato N, et al. **Prog Liver Dis** 1996;14:223–44 (162 ref.)

Quantification of hepatitis C virus RNA in peripheral blood mononuclear cells: a comparison between patients chronically infected by HCV and patients coinfected by HIV. Cribier B, et al. **Res Virol** 1996 Nov-Dec; 147(6):325–32

HIV increases hepatitis C viraemia irrespective of the hepatitis C virus genotype. Cribier B, et al. **Res Virol** 1997 Jul-Aug;148(4):267–71

Dynamics of viral quasispecies in hepatitis C virus infection. Manzin A, et al. **Res Virol** 1997 Mar-Apr;148(2):171–6

Genotyping of hepatitis C virus performed by type-specific PCR in comparison to nucleotide sequencing of NS5 and core regions. Yun Z, et al. **Res Virol** 1997 May-Jun; 148(3):233–7

Treatment of chronic hepatitis C with interferon-alpha. Clinical histological and virological implications. Olaso V, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):531–50 **(Eng, Spa)**

Stability of a stem-loop involving the initiator AUG controls the efficiency of internal initiation of translation on hepatitis C virus RNA. Honda M, et al. **RNA** 1996 Oct;2(10):955–68

Internal initiation of translation of hepatitis C virus RNA: the ribosome entry site is at the authentic initiation codon. Reynolds JE, et al. **RNA** 1996 Sep;2(9):867–78

Molecular epidemiology of hepatitis C virus infection at Ga-Rankuwa Hospital. Sithebe NP, et al. **S Afr Med J** 1996 Dec;86(12):1543–5

Influence of viral genotype and level of viremia on the severity of liver injury and the response to interferon therapy in Spanish patients with chronic C infection. Fernández I, et al. **Scand J Gastroenterol** 1997 Jan; 32(1):70–6

Factors influencing the response to interferon therapy in chronic hepatitis C. Studies on viral genotype and induction of 2',5'-oligoadenylate synthetase in the liver and peripheral blood cells. Grandér D, et al. **Scand J Gastroenterol** 1996 Jun;31(6):604–11

Hepatitis C virus: biological and clinical consequences of genetic heterogeneity. Cooreman MP, et al. **Scand J Gastroenterol Suppl** 1996;218:106–15 (86 ref.)

Prevalence of hepatitis C genotypes among patients with chronic hepatitis C in Norway. Construct Group. Bell H, et al. **Scand J Infect Dis** 1996;28(4):357–9

Distribution of hepatitis C virus genotypes in Slovenia. Seme K, et al. **Scand J Infect Dis** 1997;29(1):29–31

Transmission of hepatitis C by intrahepatic inoculation with transcribed RNA. Kolykhalov AA, et al. **Science** 1997 Jul 25;277(5325):570–4

Improved amplification system for detection of hepatitis C virus genome that simultaneously differentiates viral genotypes. Songsivilai S, et al. **Southeast Asian J Trop Med Public Health** 1996 Jun; 27(2):237–43

Prevalence of hepatitis C virus and genotype distribution in an Australian volunteer blood donor population. Mison LM, et al. **Transfusion** 1997 Jan;37(1):73–8

Hepatitis C virus RNA in tetanus intramuscular immune globulin [letter] Pisani G, et al. **Transfusion** 1997 Sep; 37(9):986–7

A search for hepatitis C virus polymerase chain reaction-positive but seronegative subjects among blood donors with elevated alanine aminotransferase. Prince AM, et al. **Transfusion** 1997 Feb;37(2):211–4

Hepatitis C virus genotypes and reinfection of the graft during long-term follow-up in 35 liver transplant recipients. Caccamo L, et al. **Transpl Int** 1996;9 Suppl 1:S204–9

Hepatitis C virus genotypes and severe hepatitis C virus recurrence after liver transplantation. Alberti AB, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):522–3

Hepatitis C virus genotypes in liver transplant recipients: impact on posttransplant recurrence, infections, response to interferon-alpha therapy and outcome. Gayowski T, et al. **Transplantation** 1997 Aug 15;64(3):422–6

Dynamic analysis of hepatitis C virus polymorphism in patients with orthotopic liver transplantation. Yun Z, et al. **Transplantation** 1997 Jul 15;64(1):170–2

Does HIV tat protein also regulate genes of other viruses present in HIV infection? [letter] Ferbeyre G, et al. **Trends Biochem Sci** 1997 Apr;22(4):115–6

DNA vaccination for the induction of immune responses against hepatitis C virus proteins. Inchauspé G, et al. **Vaccine** 1997 Jun;15(8):853–6

Infection of circulating and liver infiltrating T cells by hepatitis C virus of different subtypes. Artini M, et al. **Viral Immunol** 1995;8(2):63–73

Simultaneous detection of hepatitis C virus and human immunodeficiency virus RNA in serum using amplicor PCR tests. Woźny W, et al. **Viral Immunol** 1997;10(2):73–82

Detection and typing of hepatitis C RNA in liver biopsies and its relation to histopathology. Cathomas G, et al. **Virchows Arch** 1996 Dec;429(6):353–8

Structural requirements for initiation of translation by internal ribosome entry within genome-length hepatitis C virus RNA. Honda M, et al. **Virology** 1996 Aug 1; 222(1):31–42

Genetic analysis of internal ribosomal entry site on hepatitis C virus RNA: implication for involvement of the highly ordered structure and cell type-specific transacting factors. Kamoshita N, et al. **Virology** 1997 Jun 23;233(1):9–18

Hepatitis C virus genomic variability in untreated and immunosuppressed patients. Lawal Z, et al. **Virology** 1997 Feb 3;228(1):107–11

Characterization of cell lines allowing tightly regulated expression of hepatitis C virus core protein. Moradpour D, et al. **Virology** 1996 Aug 1;222(1):51–63

The influence of AUG codons in the hepatitis C virus 5' nontranslated region on translation and mapping of the translation initiation window. Rijnbrand RC, et al. **Virology** 1996 Dec 1;226(1):47–56

Genetic organization and diversity of the 3'noncoding region of the hepatitis C virus genome. Yamada N, et al. **Virology** 1996 Sep 1;223(1):255–61

A common structural core in the internal ribosome entry sites of picornavirus, hepatitis C virus, and pestivirus. Le SY, et al. **Virus Genes** 1996;12(2):135–47

Hepatitis C virus genotypes in blood donors and patients with chronic hepatitis C. Brojer E, et al. **Vox Sang** 1996; 71(1):51–4

Hepatitis C virus genotypes--mixed infections [letter; comment] Poljak M, et al. **Vox Sang** 1997;72(1):63–4. Comment on: Vox Sang 1996;70(3):180–1.

Collaborative study to assess the suitability of an HCV RNA reference sample for detection of an HCV RNA in plasma pools by PCR. Saldanha J, et al. **Vox Sang** 1996; 70(3):148–51

Circulating hepatitis C virus genotypes in Spain. The Hepatitis/HIV Spanish Study Group [see comments] Soriano V, et al. **Vox Sang** 1996;70(3):180–1. Comment in: Vox Sang 1997;72(1):63–4.

Rational use of polymerase chain reaction--based detection of viral genomes in patients with serologic markers of hepatitis B or C virus infection. Pfeffel F, et al. **Wien Klin Wochenschr** 1997 Jan 17;109(1):20–4

Recurrent hepatitis C virus infection after liver transplantation--long-term follow-up with respect to the HCV genotypes/subtypes. Arnold JC, et al. **Z Gastroenterol** 1997 Apr;35(4):255–61

[A three-year follow-up study of hepatitis C virus infected individuals from Beixie village, Gu-an county, Hebel province, China] Tang SX, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Jun; 17(3):145–7 (Eng. Abstr.) **(Chi)**

[Detection of hepatitis B virus DNA and hepatitis C virus RNA in human hepatocellular carcinoma by polymerase chain reaction] Zhang H, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):70–2 (Eng. Abstr.) **(Chi)**

[Studies on peptide. XIX: Hepatitis C virus (HCV) immune selection] Liu G, et al. **Yao Hsueh Hsueh Pao** 1996; 31(5):358–63 (Eng. Abstr.) **(Chi)**

[Hepatitis C virus. Structure and genetic variability] Bréchot C. **Bull Acad Natl Med** 1996 Jun-Jul;180(6):1219–39; discussion 1239–40 (92 ref.) (Eng. Abstr.) **(Fre)**

[Clinical significance of detection and quantification of hepatitis C virus RNA in hemodialysis: proposal for a rational diagnostic strategy] Halfon P, et al. **Nephrologie** 1997;18(2):53–8 (Eng. Abstr.) **(Fre)**

[Analysis of hepatitis C virus (HCV) genotypes in hepatocellular carcinoma] Shirakawa H. **Hokkaido Igaku Zasshi** 1996 Nov;71(6):677–88 (Eng. Abstr.) **(Jpn)**

[Intercalation monitoring PCR(IM-PCR), its principle and application: quantitative monitoring of HCV RNA in the course of IFN therapy] Ishiguro T, et al. **Rinsho Byori** 1997 Mar;45(3):213–7 (Eng. Abstr.) **(Jpn)**

[Regularities in the spread of hepatitis C virus and its genotypes in Russian and countries within the former USSR] L'vov DK, et al. **Vopr Virusol** 1997 Jul-Aug; 42(4):157–61 (Eng. Abstr.) **(Rus)**

[Biotechnology applied to the diagnosis of HIV/hepatitis C co-infection] Maroto Vela MC. **An R Acad Nac Med (Madr)** 1996;113(3):643–55; discussion 655–8 **(Spa)**

[Prevalence of the genotypes of the hepatitis C virus in Spanish drug addicts with chronic hepatitis C. Spanish Group for the Study of Viral Hepatitis in HIV Positive Patients] Bravo R, et al. **Rev Clin Esp** 1996 Oct; 196(10):673–7 (Eng. Abstr.) **(Spa)**

GROWTH & DEVELOPMENT

Replication of hepatitis C virus. Yoshikura H, et al. **J Viral Hepat** 1996 Jan;3(1):3–10 (50 ref.)

IMMUNOLOGY

Clinical importance of assessment of anti-HCV IgM antibodies in chronic hepatitis C. Stránský J, et al. **Acta Virol** 1996 Apr;40(2):61–5

Correlation of hepatitis C virus antibodies with viremia [letter] Feucht HH, et al. **Ann Intern Med** 1997 Apr 15; 126(8):666–7

Hepatitis C virus infection in two groups of paediatric patients: one maintained on haemodialysis and the other on continuous ambulatory peritoneal dialysis. al-Mugeiren M, et al. **Ann Trop Paediatr** 1996 Dec;16(4):335–9

Identification of HCV core mimotopes: improved methods for the selection and use of disease-related phage-displayed peptides. Tafi R, et al. **Biol Chem** 1997 Jun;378(6):495–502

Leucocytoclastic vasculitis associated with hepatitis C virus antibodies. Manna R, et al. **Br J Rheumatol** 1997 Jan; 36(1):124–5

Significance of the presence of antibodies against hepatitis C virus in asymptomatic blood donors. Ferraz ML, et al. **Braz J Med Biol Res** 1996 Oct;29(10):1275–82

Antibody production against hepatitis C virus core and nonstructural 3 proteins is highly sensitive to deficits in T-cell function. Ando Y, et al. **Clin Diagn Lab Immunol** 1997 Jan;4(1):104–6

Improved reactivity of hepatitis C virus core protein epitopes in a conformational antigen-presenting system. Buratti E, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):117–21

Hepatitis C virus (HCV)-induced IgG-IgM rheumatoid factor (RF) complex may be the main causal factor for cold-dependent activation of complement in patients with rheumatic disease. Wei G, et al. **Clin Exp Immunol** 1997 Jan;107(1):83–8

Plasmid DNA expressing a secreted or a nonsecreted form of hepatitis C virus nucleocapsid: comparative studies of antibody and T-helper responses following genetic immunization. Inchauspe G, et al. **DNA Cell Biol** 1997 Feb; 16(2):185–95

Impaired induction of cytotoxic T lymphocytes by antagonism of a weak agonist borne by a variant hepatitis C virus epitope. Kaneko T, et al. **Eur J Immunol** 1997 Jul; 27(7):1782–7

Immunity to hepatitis C virus: a further piece of the puzzle [editorial; comment] Battegay M. **Hepatology** 1996 Oct; 24(4):961–3. Comment on: Hepatology 1996 Oct;24(4):790–5.

Induction of cytotoxic T-cell response against hepatitis C virus structural antigens using a defective recombinant adenovirus. Bruña-Romero O, et al. **Hepatology** 1997 Feb; 25(2):470–7

T- and B-cell responses to different hepatitis C virus antigens in patients with chronic hepatitis C infection and in healthy anti-hepatitis C virus--positive blood donors without viremia [see comments] Lechmann M, et al. **Hepatology** 1996 Oct;24(4):790–5. Comment in: Hepatology 1996 Oct;24(4):961–3.

Acute sporadic non-A, non-B, non-C, non-D, non-D, non-E hepatitis. Rochling FA, et al. **Hepatology** 1997 Feb; 25(2):478–83

Detection of hepatitis C virus by third generation enzyme immunoassay. Ghuman HK. **Indian J Gastroenterol** 1995 Oct;14(4):154

Prevalence of anti-HCV antibodies in chronic liver disease in the Czech Republic [letter] Stránský J, et al. **Infection** 1997 Jan-Feb;25(1):49–50

Identification of A2-restricted hepatitis C virus-specific cytotoxic T lymphocyte epitopes from conserved regions of the viral genome. Wentworth PA, et al. **Int Immunol** 1996 May;8(5):651–9

Interferon or corticosteroid: treatment of patients with chronic hepatitis C positive for serum markers of autoimmune diseases [editorial] Toda G. **Intern Med** 1997 Apr;36(4):233–5

Hepatitis C virus infection: a possible promoting agent in porphyria cutanea tarda. Antonov K, et al. **Ital J Gastroenterol** 1996 Dec;28(9):482–6

Prevalence of hepatitis E in a central Italian town at high endemicity for hepatitis C virus. Stroffolini T, et al. **Ital J Gastroenterol** 1996 Dec;28(9):523–5

Significance of anti-E2 in the diagnosis of HCV infection in patients on maintenance hemodialysis: anti-E2 is frequently detected among anti-HCV antibody-negative patients. Lee DS, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2409–13

Comparative peptide mapping of a hepatitis C viral recombinant protein by capillary electrophoresis and matrix-assisted laser desorption time-of-flight mass spectrometry. Winkler MA, et al. **J Chromatogr A** 1996 Sep 13;744(1-2):177–85

The immune reactivity role of HCV-induced liver infiltrating lymphocytes in hepatocellular damage. Jin Y, et al. **J Clin Immunol** 1997 Mar;17(2):140–53

Diverse patterns of recognition of hepatitis C virus core and nonstructural antigens by antibodies present in Egyptian cancer patients and blood donors. Attia MA, et al. **J Clin Microbiol** 1996 Nov;34(11):2665–9

Evaluation of performance of the RIBA processor system for automated analysis of the strip immunoblot assay for detection of antibodies to hepatitis C virus. Icardi G, et al. **J Clin Microbiol** 1997 Sep;35(9):2331–6

HLA B44-restricted cytotoxic T lymphocyte responses to the peptides of HCV nucleoprotein residues 81–100 in patients with chronic hepatitis C. Kita H, et al. **J Gastroenterol** 1995 Dec;30(6):809–12

Antibody response to E2/NS1 hepatitis C virus protein in patients with acute hepatitis C. Kobayashi M, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):73–6

Immunogenicity and antigenicity of the ATPase/helicase domain of the hepatitis C virus non-structural 3 protein. Sällberg M, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2721–8

Quantitative liver parameters of HCV infection: relation to HCV genotypes, viremia and response to interferon treatment. Ballardini G, et al. **J Hepatol** 1997 Apr; 26(4):779–86

Hepatitis C virus antibody, viral RNA and genotypes in leprous patients in Japan. Egawa K, et al. **J Hepatol** 1996 Apr;24(4):397–402

Evaluation of hepatitis C virus envelope proteins expressed in E. coli and insect cells for use as tools for antibody screening. Hüssy P, et al. **J Hepatol** 1997 Jun;26(6):1179–86

The quantitative humoral immune response to the hepatitis C virus is correlated with disease activity and response to interferon-alpha. Löhr HF, et al. **J Hepatol** 1996 Sep; 25(3):292–300

Significance of IgM anti-HCV core level in chronic hepatitis C. Papatheodoridis GV, et al. **J Hepatol** 1997 Jul; 27(1):36–41

Production of interleukin-2 in response to synthetic peptides from hepatitis C virus E1 protein in patients with chronic hepatitis C: relationship with the response to interferon treatment. Sarobe P, et al. **J Hepatol** 1996 Jul;25(1):1–9

Circulating immune complex of hepatitis virus C in patients with acute and chronic hepatitis C [letter] Tomiya T, et al. **J Hepatol** 1996 Jun;24(6):764

Deficiency of antibody response to hypervariable region of hepatitis C virus in patients with chronic hepatitis C. Yoshioka K, et al. **J Hepatol** 1996 Jun;24(6):649–57

Perforin, Fas/Fas ligand, and TNF-alpha pathways as specific and bystander killing mechanisms of hepatitis C virus-specific human CTL. Ando K, et al. **J Immunol** 1997 Jun 1;158(11):5283–91

Enhancement of cellular and humoral immune responses to hepatitis C virus core protein using DNA-based vaccines augmented with cytokine-expressing plasmids. Geissler M, et al. **J Immunol** 1997 Feb 1;158(3):1231–7

The role of hepatitis C virus-specific cytotoxic T lymphocytes in chronic hepatitis C. Nelson DR, et al. **J Immunol** 1997 Feb 1;158(3):1473–81

CD30 induction and cytokine profiles in hepatitis C virus core-specific peripheral blood T lymphocytes. Woitas RP, et al. **J Immunol** 1997 Jul 15;159(2):1012–8

Sequence analysis of hypervariable region of hepatitis C virus (HCV) associated with immune complex in patients with chronic HCV infection. Aiyama T, et al. **J Infect Dis** 1996 Dec;174(6):1316–20

Patients infected with the same hepatitis C virus strain display different kinetics of the isolate-specific antibody response. Allander T, et al. **J Infect Dis** 1997 Jan;175(1):26–31

Lymphocyte reactivity to hepatitis C virus (HCV) antigens shows evidence for exposure to HCV in HCV-seronegative spouses of HCV-infected patients. Bronowicki JP, et al. **J Infect Dis** 1997 Aug;176(2):518–22

Humoral immune response to the hypervariable region of hepatitis C virus differs between genotypes 1b and 2a. Yoshioka K, et al. **J Infect Dis** 1997 Mar;175(3):505–10

Interferon-alpha treatment induces delayed CD4 proliferative responses to the hepatitis C virus nonstructural protein 3 regardless of the outcome of therapy. Zhang ZX, et al. **J Infect Dis** 1997 Jun;175(6):1294–301

Antibody responses to the hepatitis C virus E2 protein: relationship to viraemia and prevalence in anti-HCV seronegative subjects. Cerino A, et al. **J Med Virol** 1997 Jan;51(1):1–5

Influence of viraemia and genotype upon serological reactivity in screening assays for antibody to hepatitis C virus. Dhaliwal SK, et al. **J Med Virol** 1996 Feb; 48(2):184–90

Characterisation of a panel of monoclonal antibodies raised against recombinant HCV core protein. Ferns RB, et al. **J Med Virol** 1996 Nov;50(3):221–9

Antibody responses to hepatitis C envelope proteins in patients with acute or chronic hepatitis C. Fournillier-Jacob A, et al. **J Med Virol** 1996 Oct; 50(2):159–67

Reactivity of synthetic peptides representing selected sections of hepatitis C virus core and envelope proteins with a panel of hepatitis C virus-seropositive human plasma. Jackson P, et al. **J Med Virol** 1997 Jan;51(1):67–79

Low expression of erythrocyte complement receptor type 1 in chronic hepatitis C patients. Kanto T, et al. **J Med Virol** 1996 Oct;50(2):126–34

Presentation of the hydrophilic domains of hepatitis C viral E2 envelope glycoprotein on hepatitis B surface antigen particles. Lee IH, et al. **J Med Virol** 1996 Oct;50(2):145–51

B-cell epitopes in hypervariable region 1 of hepatitis C virus obtained from patients with chronic persistent hepatitis. Nakamoto Y, et al. **J Med Virol** 1996 Sep;50(1):35–41

Serological and molecular analysis of hepatitis C virus envelope regions 1 and 2 during acute and chronic infections in chimpanzees. van Doorn LJ, et al. **J Med Virol** 1997 Aug;52(4):441–50

The role of hepatitis C virus specific CD4+ T lymphocytes in acute and chronic hepatitis C. Diepolder HM, et al.

J Mol Med 1996 Oct;74(10):583–8 (54 ref.)
Prevalence of serum antibodies to hepatitis C virus is not increased in patients with multiple sclerosis [letter] Heinzlef O, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec; 61(6):655–6
A high prevalence of antibodies to hepatitis C virus among commercial plasma donors from Western India. Jha J, et al. **J Viral Hepat** 1995;2(5):257–60
Hepatotropic viruses and autoimmunity 1997. Manns MP. **J Viral Hepat** 1997;4 Suppl 1:7–10 (21 ref.)
Higher elimination rate of hepatitis C virus among women. Yamakawa Y, et al. **J Viral Hepat** 1996 Nov;3(6):317–21
Immunization with plasmid DNA encoding hepatitis C virus envelope E2 antigenic domains induces antibodies whose immune reactivity is linked to the injection mode. Nakano I, et al. **J Virol** 1997 Sep;71(9):7101–9
Differential cytotoxic T-lymphocyte responsiveness to the hepatitis B and C viruses in chronically infected patients. Rehermann B, et al. **J Virol** 1996 Oct;70(10):7092–102
Demonstration of specific detection of anti-HCV IgM core antibodies. Kapprell HP, et al. **J Virol Methods** 1996 May; 59(1–2):121–6
Overexpression and simple purification of a truncated, immunologically reactive GST-HCV core (1–123) fusion protein. Seong YR, et al. **J Virol Methods** 1996 May; 59(1–2):13–21
Prevalence of seromarkers of HBV and HCV in health care personnel and apparently healthy blood donors [see comments] Rehman K, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):152–4. Comment in: JPMA J Pak Med Assoc 1997 Mar;47(3):100–1.
Incidence of post-transfusion hepatitis in Taiwan before and after introduction of anti-HCV testing. Chang TT, et al. **Liver** 1996 Jun;16(3):201–6
Hepatitis B and C viruses serology in patients with SLE. Abu-Shakra M, et al. **Lupus** 1997;6(6):543–4
Murine humoral immune response against recombinant structural proteins of hepatitis C virus distinct from those of patients. Ahmed M, et al. **Microbiol Immunol** 1996; 40(2):169–76
Serological and molecular biology screening techniques for HVC infection. De Lamballerie X.
Nephrol Dial Transplant 1996;11 Suppl 4:9–11 (17 ref.)
Protection and defence mechanisms in HCV infection. Inchauspé G. **Nephrol Dial Transplant** 1996;11 Suppl 4:6–8 (21 ref.)
Liver disease in dialysis patients with antibodies to hepatitis C virus. al-Wakeel J, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2265–8
Prospects for prophylactic and therapeutic hepatitis C virus vaccines. Houghton M, et al. **Princess Takamatsu Symp** 1995;25:237–43 (33 ref.)
Hepatitis C and its sequelae: the biology of hepatitis C virus and implications for its control. Purcell RH.
Princess Takamatsu Symp 1995;25:1–13 (57 ref.)
Prevention of hepatitis C virus infection in chimpanzees by hyperimmune serum against the hypervariable region 1 of the envelope 2 protein. Farci P, et al.
Proc Natl Acad Sci U S A 1996 Dec 24;93(26):15394–9
Role of endogenous interferon in hepatitis C virus (HCV) infection and in coinfection by HIV and HCV. Cribier B, et al. **Res Virol** 1996 Sep–Oct;147(5):263–6
Concomitant high prevalence of hepatitis C virus antibodies and hepatitis B virus markers in a small village of the Amazon Region, Mato Grosso State, Brazil. Souto FJ, et al. **Rev Inst Med Trop Sao Paulo** 1996 May–Jun;38(3):221–3
Immune responses throughout hepatitis C virus (HCV) infection: HCV from the immune system point of view. Abrignani S. **Springer Semin Immunopathol** 1997; 19(1):47–55 (43 ref.)
The quasispecies of hepatitis C virus and the host immune response. Farci P, et al. **Springer Semin Immunopathol** 1997; 19(1):5–26 (147 ref.)
Hepatitis B and C virus and hepatocellular carcinoma. Olubuyide IO, et al. **Trans R Soc Trop Med Hyg** 1997 Jan–Feb;91(1):38–41
Reproducibility of hepatitis C virus antibody detection with various confirmatory assays [letter] Allain JP, et al. **Transfusion** 1997 Sep;37(9):989–91
Hepatitis C virus: models of immunopathogenesis and prophylaxis. Eckels DD, et al. **Transfusion** 1996 Sep; 36(9):836–44 (123 ref.)
Unexplained hepatitis C virus antibody seroconversion in established blood donors [letter] Hewitt PE, et al.
Transfusion 1997 Sep;37(9):987–8
Induction of antibodies against structural proteins of hepatitis C virus in mice using recombinant adenovirus. Makimura M, et al. **Vaccine** 1996 Jan;14(1):28–36
High efficiency prokaryotic expression and purification of a portion of the hepatitis C core protein and analysis of the immune response to recombinant protein in BALB/c mice. Hitomi Y, et al. **Viral Immunol** 1995;8(2):109–19
Characterization of the antibody reactivity to synthetic peptides from different parts of the hepatitis C virus genome. Pujol FH, et al. **Viral Immunol** 1996;9(2):89–96
A hyperimmune serum against a synthetic peptide corresponding to the hypervariable region 1 of hepatitis C virus can prevent viral infection in cell cultures. Shimizu YK, et al. **Virology** 1996 Sep 15;223(2):409–12
Detection of antibody to hepatitis C virus E2 recombinant antigen among samples indeterminate for anti-HCV after wide serological testing and correlation with viremia. The Spanish Study Group for Blood Donors at Risk of Transmission of HCV. León P, et al. **Vox Sang** 1996; 70(4):213–6
An easy dipstick assay for anti-core antibodies to screen blood donors for hepatitis C virus viremia. Mulyanto, et al. **Vox Sang** 1996;70(4):229–31
[Chronic hepatitis C: virologic and immunologic aspects and questions of therapy] **Pár A. Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1465–76 (90 ref.) (Eng. Abstr.) **(Hun)**
[A resected case of cholangiocellular carcinoma associated with HCV antibody-positive liver cirrhosis] Saitoh S, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Feb;93(2):131–6 **(Jpn)**
[Survival of the hepatitis C virus in a dialysis population in Goiânia, Goiás] Naghettini AV, et al.
Rev Soc Bras Med Trop 1997 Mar–Apr;30(2):113–7 (Eng. Abstr.) **(Por)**
[The prevalence of antibodies to the hepatitis C virus (HCV) in patients with post-transfusional hepatitis and blood donors in Moldova] Iancu L, et al.
Bacteriol Virusol Parazitol Epidemiol 1993 Jan–Jun; 38(1–2):76–80 **(Rum)**
[Immunochemical properties and specificity of monoclonal antibodies against N- and C-terminal sites of the recombinant protein of the nucleocapsid of hepatitis C virus (HCcAg)] Masalova OV, et al. **Vopr Virusol** 1996 Jul–Aug; 41(4):150–3 (Eng. Abstr.) **(Rus)**
[Detection of low-avidity IgG antibodies in the diagnosis of primary acute infection by hepatitis C virus] León P, et al. **Enferm Infecc Microbiol Clin** 1997 Jan;15(1):14–8 (Eng. Abstr.) **(Spa)**
[HCV and HBV seropositivity in university students of the State of Nuevo León, Mexico] Flores-Castañeda MS, et al. **Rev Gastroenterol Mex** 1996 Oct–Dec;61(4):327–31 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Lymphotropic virus infection of peripheral blood mononuclear cells in B-cell non-Hodgkin's lymphoma. Ferri C, et al. **Acta Haematol** 1997;98(2):89–94
Detection of hepatitis C virus RNA using ligation-dependent polymerase chain reaction in formalin-fixed, paraffin-embedded liver tissues. Park YN, et al.
Am J Pathol 1996 Nov;149(5):1485–91
Barriers to hepatitis C transmission within breathing systems: efficacy of a pleated hydrophobic filter. Lloyd G, et al. **Anaesth Intensive Care** 1997 Jun;25(3):235–8
A sensitive PCR assay system for the quantitation of viral genome equivalents: hepatitis C virus (HCV). Hämmerle T, et al. **Arch Virol** 1996;141(11):2103–14
Prevalence of hepatitis C virus and distribution of its genotypes in Northern Eurasia. Lvov DK, et al.
Arch Virol 1996;141(9):1613–22
Nanofiltration of immunoglobulin with 35-nm filters fails to remove substantial amounts of HCV [letter] Eibl J, et al. **Biologicals** 1996 Sep;24(3):285–7
Hepatitis C virus and lymphoproliferative disorders [letter] Ferri C, et al. **Blood** 1996 Dec 15;88(12):4730–1
Quantification of hepatitis C virus-infected peripheral blood mononuclear cells by in situ reverse transcriptase-polymerase chain reaction. Muratori L, et al. **Blood** 1996 Oct 1;88(7):2768–74
Systematic review of role of polymerase chain reaction in defining infectiousness among people infected with hepatitis C virus. Dore GJ, et al. **BMJ** 1997 Aug 9; 315(7104):333–7
Hepatitis C virus (HCV) infection in bone marrow transplant patients after transfusions from anti-HCV-positive blood donors. Shuhart MC, et al. **Bone Marrow Transplant** 1996 Apr;17(4):601–6
Hepatitis C virus in saliva of haemophiliac patients attending an oral surgery unit. Roy KM, et al.
Br J Oral Maxillofac Surg 1996 Apr;34(2):162–5
Bronchoalveolar lavage in mixed cryoglobulinaemia associated with hepatitis C virus. Manganelli P, et al.
Br J Rheumatol 1996 Oct;35(10):978–82
In situ simultaneous detection of hepatitis C virus RNA and hepatitis C virus-related antigens in hepatocellular carcinoma. Sansonno D, et al. **Cancer** 1997 Jul 1;80(1):22–33
Immunohistochemical detection of hepatitis C virus related C100-3 and core antigens in formalin-fixed liver tissue. Chamlian A, et al. **Cell Mol Biol (Noisy-le-grand)** 1996 Jun;42(4):557–66
Chronic variant of myocarditis associated with hepatitis C virus infection. Okabe M, et al. **Circulation** 1997 Jul 1; 96(1):22–4
Quantitative detection of hepatitis C virus RNA in the serum of patients with chronic hepatitis C treated with interferon: a pilot study. Flichman D, et al. **Clin Diagn Virol** 1997 May;8(1):63–70
Is hepatitis C virus-RNA detection by nested polymerase chain reaction clinically relevant in hemodialysis patients? Dussol B, et al. **Clin Nephrol** 1996 Apr;45(4):257–60
Detection of hepatitis C by RT-PCR in formalin-fixed paraffin-embedded tissue from liver transplant patients. Svoboda-Newman SM, et al. **Diagn Mol Pathol** 1997 Apr; 6(2):123–9
Serum HCV-RNA and liver histologic findings in patients with long-term normal transaminases. Montalto G, et al. **Dig Dis Sci** 1997 Aug;42(8):1703–7
No significant changes in levels of hepatitis C virus (HCV) RNA by competitive polymerase chain reaction in blood samples from patients with chronic HCV infection. Yoshimura E, et al. **Dig Dis Sci** 1997 Apr;42(4):772–7
Early negative tests for serum HCV RNA as a predictor of sustained response to interferon therapy in patients with chronic hepatitis C [comment] Marcellin P, et al.
Eur J Gastroenterol Hepatol 1997 Mar;9(3):237–8. Comment on: Eur J Gastroenterol Hepatol 1997 Mar;9(3):245–9.
Significance of early measurement of serum hepatitis C virus RNA in predicting response to interferon therapy in patients with chronic hepatitis C [see comments] Toyoda H, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):245–9 . Comment in: Eur J Gastroenterol Hepatol 1997 Mar;9(3):237–8.
Hepatitis G virus infection in patients with hepatitis C virus infection undergoing liver transplantation. Berenguer M, et al. **Gastroenterology** 1996 Dec;111(6):1569–75
Detection of hepatitis C virus RNA in circulating immune complexes by RT-PCR. Morita T, et al.
Hepatogastroenterology 1996 May–Jun;43(9):582–5
Detection of common hepatitis C virus subtypes with a third-generation enzyme immunoassay. Huber KR, et al. **Hepatology** 1996 Sep;24(3):471–3
Biochemical and virological outcome of patients with chronic hepatitis C treated with interferon alfa-2b for 6 or 12 months: a 4-year follow-up of 211 patients. Manesis EK, et al. **Hepatology** 1997 Sep;26(3):734–9
Measuring hepatitis C viremia in clinical samples: can we trust the assays? Pawlotsky JM. **Hepatology** 1997 Jul; 26(1):1–4 (26 ref.)
GB virus C, hepatitis G virus, or human orphan flavivirus? [editorial] Theodore D, et al. **Hepatology** 1997 May; 25(5):1285–6
Urinary transforming growth factor beta1 levels in hepatitis C virus-related chronic liver disease: correlation between high levels and severity of disease. Tsai JF, et al.
Hepatology 1997 May;25(5):1141–6
An unusual pattern of hepatitis C virus infection in a liver allograft. Sebagh M, et al. **Histopathology** 1995 Aug; 27(2):190–2
Hepatitis C virus is not recoverable from liver tissue in cryptogenic cirrhosis: failure to identify hepatitis C virus-RNA using reverse transcription-mediated polymerase chain reaction. Geller SA, et al.
Hum Pathol 1996 Nov;27(11):1161–5
Laboratory diagnosis of hepatitis C. Nolte FS.
Immunol Invest 1997 Jan–Feb;26(1–2):199–207 (43 ref.)
Nosocomial transmission of hepatitis C virus. Schvarcz R, et al. **Infection** 1997 Mar–Apr;25(2):74–7
Evaluation of western blot in routine diagnosis of hepatitis C virus. Tsopanomichalou M, et al. **Int J Biol Markers** 1997 Jan–Mar;12(1):35–41
Histological changes but not virus eradication reflect biochemical improvement in chronic hepatitis C patients showing a long-term response to interferon alpha therapy. Bruno S, et al. **Ital J Gastroenterol Hepatol** 1997 Feb; 29(1):31–7
Enhanced amplification of hepatitis C virus (HCV) cDNA by PCR: detection of HCV RNA in archival sera. Beardsley AM, et al. **J Clin Microbiol** 1996 Jun; 34(6):1581–2
Identification of numerous hepatitis C virus genotypes in Montreal, Canada. Bernier L, et al. **J Clin Microbiol** 1996 Nov;34(11):2815–8
Hepatitis C virus (HCV) subtype prevalence in Chiang Mai, Thailand, and identification of novel subtypes of HCV major type 6. Doi H, et al. **J Clin Microbiol** 1996 Mar; 34(3):569–74
Comparison of plasma virus loads among individuals infected with hepatitis C virus (HCV) genotypes 1, 2, and 3 by quantiplex HCV RNA assay versions 1 and 2, Roche Monitor assay, and an in-house limiting dilution method. Hawkins A, et al. **J Clin Microbiol** 1997 Jan;35(1):187–92
Genotyping hepatitis C virus isolates from Spain, Brazil, China, and Macau by a simplified PCR method. Holland PV, et al. **J Clin Microbiol** 1996 Oct;34(10):2372–8
Novel, ligation-dependent PCR assay for detection of hepatitis C in serum. Hsuih TC, et al. **J Clin Microbiol** 1996 Mar;34(3):501–7
Detection of hepatitis C virus by PCR in second-generation enzyme immunoassay-seropositive blood donors by using matched pairs of fresh frozen plasma and pilot tube sera. Krajden M, et al. **J Clin Microbiol** 1996 Sep;34(9):2191–5
Subtype 2c of hepatitis C virus is highly prevalent in Italy and is heterogeneous in the NS5A region. Maggi F, et al. **J Clin Microbiol** 1997 Jan;35(1):161–4
Comparison of a competitive combined reverse transcription-PCR assay with a branched-DNA assay for hepatitis C virus RNA quantitation. Mayerat C, et al.
J Clin Microbiol 1996 Nov;34(11):2702–6
Rapid reverse transcription-PCR detection of hepatitis C virus RNA in serum by using the TaqMan fluorogenic detection system. Morris T, et al. **J Clin Microbiol** 1996 Dec;34(12):2933–6
Concordance of hepatitis C virus typing methods based on restriction fragment length polymorphism analysis in 5' noncoding region and NS4 serotyping, but not in core PCR or a line probe assay. Navas S, et al. **J Clin Microbiol** 1997 Jan;35(1):317–21
New hepatitis C virus (HCV) genotyping system that allows for identification of HCV genotypes 1a, 1b, 2a, 2b, 3a, 3b, 4, 5a, and 6a. Ohno O, et al. **J Clin Microbiol** 1997 Jan;

35(1):201-7
Serological determination of hepatitis C virus genotype: comparison with a standardized genotyping assay. Pawlotsky JM, et al. **J Clin Microbiol** 1997 Jul;35(7):1734-9
Differential prevalence of hepatitis C virus subtypes in healthy blood donors, patients on maintenance hemodialysis, and patients with hepatocellular carcinoma in Surabaya, Indonesia. Soetjipto, et al. **J Clin Microbiol** 1996 Dec;34(12):2875-80
Discordant results from hepatitis C virus genotyping by procedures based on amplification of different genomic regions. Toniutto P, et al. **J Clin Microbiol** 1996 Oct; 34(10):2382-5
Hepatitis C virus detection by single-round PCR specific for the terminal 3' noncoding region. Umlauft F, et al. **J Clin Microbiol** 1996 Oct;34(10):2552-8
Indeterminate results of the second-generation hepatitis C virus (HCV) recombinant immunoblot assay: significance of high-level c22-3 reactivity and influence of HCV genotypes. Zein NN, et al. **J Clin Microbiol** 1997 Jan; 35(1):311-2
Variation of the hepatitis C virus 5' non-coding region: implications for secondary structure, virus detection and typing. The International HCV Collaborative Study Group. Smith DB, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1749-61
Lack of interaction between hepatitis C virus and alcohol in the pathogenesis of cirrhosis. A statistical study. Alemy-Carreau M, et al. **J Hepatol** 1996 Nov;25(5):627-32
Ribavirin treatment for patients with chronic hepatitis C: results of a placebo-controlled study. Dusheiko G, et al. **J Hepatol** 1996 Nov;25(5):591-8
Serum HCV RNA levels assessed by quantitative NASBA: stability of viral load over time, and lack of correlation with liver disease. The Trent HCV Study Group. Hollingsworth RC, et al. **J Hepatol** 1996 Sep;25(3):301-6
In situ detection of hepatitis C virus--a critical appraisal. Lau JY, et al. **J Hepatol** 1996;24(2 Suppl):43-51 (35 ref.)
Thrombocytopenia associated with hepatitis C viral infection [see comments] Nagamine T, et al. **J Hepatol** 1996 Feb; 24(2):135-40. Comment in: J Hepatol 1996 Dec;25(6):999.
HCV and hypogammaglobulinemia [letter] Sierra FJ, et al. **J Hepatol** 1997 May;26(5):1158-9
Hepatitis C virus infection of salivary gland epithelial cells. Lack of evidence. Taliani G, et al. **J Hepatol** 1997 Jun; 26(6):1200-6
Hepatitis C virus infection detected by viral RNA analysis in porphyria cutanea tarda. Carpintero P, et al. **J Infect** 1997 Jan;34(1):61-4
Follow-up of four HIV-infected individuals after administration of hepatitis C virus and GBV-C/hepatitis G virus contaminated intravenous immunoglobulin: evidence for HCV but not for GBV-C/HGV transmission. Berger A, et al. **J Med Virol** 1997 Sep;53(1):25-30
Clinical significance of hepatitis C viral RNA status and its correlation to antibodies to structural HCV antigens in anti-HCV reactive patients with normal liver tests. Fong TL, et al. **J Med Virol** 1996 Jul;49(3):253-8
Evaluation of a pooling method for routine anti-HCV screening of blood donors to lower the cost burden on blood banks in countries under development. García Z, et al. **J Med Virol** 1996 Jul;49(3):218-22
Clinical implications of viral quasispecies heterogeneity in chronic hepatitis C. González-Peralta RP, et al. **J Med Virol** 1996 Jul;49(3):242-7
Improved methods for quantification of human immunodeficiency virus type 1 RNA and hepatitis C virus RNA in blood using spin column technology and chemiluminescent assays of PCR products. Lin HJ, et al. **J Med Virol** 1997 Jan;51(1):56-63
Detection and genotyping of the hepatitis C RNA in tear fluid from patients with chronic hepatitis C. Mendel I, et al. **J Med Virol** 1997 Mar;51(3):231-3
Risk factors associated with hepatitis C virus (HCV) infection among prostitutes and their clients in the city of Santos, São Paulo State, Brazil. Mesquita PE, et al. **J Med Virol** 1997 Apr;51(4):338-43
Changes in hepatitis C virus quasispecies and density populations in patients before and after interferon therapy. Nagasaka A, et al. **J Med Virol** 1996 Nov;50(3):214-20
Detection and clinical features of hepatitis C virus type 6 infections in blood donors from Hong Kong. Prescott LE, et al. **J Med Virol** 1996 Oct;50(2):168-75
Comparison of prevalence of anti-hepatitis C virus antibodies in differing South American populations. Robinson JW, et al. **J Med Virol** 1996 Oct;50(2):188-92
Hepatitis C virus: quantitation and distribution in liver. Terrault NA, et al. **J Med Virol** 1997 Mar;51(3):217-24
Risk of hepatitis C virus infection among household contacts of Saudi patients with chronic liver disease. Arif M, et al. **J Viral Hepat** 1996 Mar;3(2):97-101
Treatment of chronic hepatitis C with interferon-alpha by monitoring the response according to viraemia. Bonetti P, et al. **J Viral Hepat** 1997 Mar;4(2):107-12
Fluctuations in viral load (HCV RNA) are relatively insignificant in untreated patients with chronic HCV infection. Nguyen TT, *et* al. **J Viral Hepat** 1996 Mar; 3(2):75-8
Visualization of hepatitis C virions and putative defective interfering particles isolated from low-density lipoproteins. Prince AM, et al. **J Viral Hepat** 1996 Jan;3(1):11-7
Hepatitis C virus infection in patients with clinically diagnosed alcoholic liver diseases. Sata M, et al. **J Viral Hepat** 1996 May;3(3):143-8
Stability of hepatitis C virus RNA in serum from samples collected in a closed-tube system for serum separation and transport, as measured by a quantitative competitive PCR assay. Trabaud MA, et al. **J Viral Hepat** 1996 Jul;3(4):207-9
Structure of replicating hepatitis C virus (HCV) quasispecies in the liver may not be reflected by analysis of circulating HCV virions. Cabot B, et al. **J Virol** 1997 Feb;71(2):1732-4
Lack of correlation between different hepatitis C virus screening and confirmatory assays. Berger A, et al. **J Virol Methods** 1996 May;59(1-2):141-6
International collaborative study on the second EUROHEP HCV-RNA reference panel. Damen M, et al. **J Virol Methods** 1996 Apr 26;58(1-2):175-85
Capture and RT-PCR of hepatitis C virus RNA with safety primers. Heermann KH, et al. **J Virol Methods** 1996 May; 59(1-2):33-43
Sequence-specific, single-primer amplification and detection of PCR products for identification of hepatitis viruses. Nainan OV, et al. **J Virol Methods** 1996 Sep;61(1-2):127-34
High throughput PCR detection of HCV based on semiautomated multisample RNA capture. Petrik J, et al. **J Virol Methods** 1997 Mar;64(2):147-59
A single tube two compartment reverse transcription polymerase chain reaction system for ultrasensitive quantitative detection of hepatitis C virus RNA. Whitby K, et al. **J Virol Methods** 1997 Jun;66(1):15-8
Hepatitis C virus infection associated with administration of intravenous immune globulin. A cohort study [see comments] Bresee JS, et al. **JAMA** 1996 Nov 20; 276(19):1563-7. Comment in: JAMA 1997 Feb 26;277(8):627; discussion 627-8.
Hepatitis C virus and intravenous immune globulin [letter; comment] Macy E. **JAMA** 1997 Feb 26;277(8):627; discussion 627-8. Comment on: JAMA 1996 Nov 20;276(19):1563-7.
Disappearance of serum hepatitis C virus RNA within two days after one dose interferon administration is predictive for response to high-dose interferon-alpha 2b treatment for chronic hepatitis C. Keio Interferon-alpha 2b Study Group. Saito H, et al. **Keio J Med** 1997 Jun;46(2):74-80
Distribution of hepatitis C virus RNA in the liver and its relation to histopathological changes. Kojima S, et al. **Liver** 1996 Feb;16(1):55-60
The effectiveness of donor selection for reducing the risk of HCV, HBV and HIV in new blood donors [letter] Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):611
The risk of transmitting HCV, HBV or HIV by blood transfusion in Victoria. Whyte GS, et al. **Med J Aust** 1997 Jun 2;166(11):584-6
A rapid method for the detection of hepatitis C virus RNA by in situ hybridization. Felgar RE, et al. **Mod Pathol** 1996 Jun;9(6):696-702
A simplified semiquantitative determination of hepatitis C virus genome molecules by the end-point dilution method. Bathelier C, et al. **Mol Cell Probes** 1996 Dec;10(6):477-80
Comparative analysis of three nucleic acid-based detection systems for hepatitis C virus RNA in plasma from liver transplant recipients. Chen Y, et al. **Mol Cell Probes** 1996 Oct;10(5):331-6
Hepatitis G infection [letter; comment] Kudo T, et al. **N Engl J Med** 1997 Jul 24;337(4):276-7. Comment on: N Engl J Med 1997 Mar 13;336(11):741-6. Comment on: N Engl J Med 1997 Mar 13;336(11):747-54.
Diffusion of HCV through peritoneal membrane in HCV positive patients treated with continuous ambulatory peritoneal dialysis. Castelnovo C, et al. **Nephrol Dial Transplant** 1997 May;12(5):978-80
Hepatitis C infection in patients with chronic renal failure receiving conservative therapy [letter] Ilçöl B, et al. **Nephrol Dial Transplant** 1997 Mar;12(3):626
Detection of genotype 4 hepatitis C virus (HCV) in Italy. Tagliaferro L, et al. **New Microbiol** 1997 Jan;20(1):87-8
Reduction in the incidence of infection by hepatitis C virus in children with acute lymphoblastic leukemia after suspension of sampling from the finger. Dibenedetto SP, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):265-6
Anti-HCV seroprevalence and risk factors of hepatitis C virus infection in Moroccan population groups. Benjelloun S, et al. **Res Virol** 1996 Jul-Aug;147(4):247-55
Quantitation of hepatitis C virus RNA production in two human bone marrow-derived B-cell lines infected in vitro. Iacovacci S, et al. **Res Virol** 1997 Mar-Apr;148(2):147-51
Minor role of hepatitis B and C virus infection in the etiology of hepatocellular carcinoma in a low-endemic area. Kaczynski J, et al. **Scand J Gastroenterol** 1996 Aug; 31(8):809-13
Detection of HIV, hepatitis B and hepatitis C markers in discarded syringes and bloodstains. Cattaneo C, et al. **Sci Justice** 1996 Oct-Dec;36(4):271-4
Histopathology and detection of hepatitis C virus in liver. Scheuer PJ, et al. **Springer Semin Immunopathol** 1997; 19(1):27-45 (119 ref.)
High malignancy of hepatocellular carcinoma in alcoholic patients with hepatitis C virus. Kubo S, et al. **Surgery** 1997 Apr;121(4):425-9
Hepatitis C virus type 4 in Portuguese haemophiliacs [letter] Araújo F, et al. **Thromb Haemost** 1997 Apr;77(4):805
Hepatitis G viral RNA in serum and in peripheral blood mononuclear cells and its relation to HCV-RNA in patients with clotting disorders. Sheng L, et al. **Thromb Haemost** 1997 May;77(5):868-72
Does GB virus C ('hepatitis G virus') threaten the safety of our blood supply? [editorial] Barbara JA. **Transfus Med** 1997 Jun;7(2):75-6
Infective, chronic carriers of hepatitis C virus among blood donors with no history of clinical hepatitis. Larsen J, et al. **Transfus Med** 1991 Mar;1(1):13-6
Development of polymerase chain reaction diagnostic assays for the detection and quantitation of human immunodeficiency virus and hepatitis C virus genomes. Colucci G. **Transplant Proc** 1996 Oct;28(5):2929-30
Hepatitis C virus infection after liver transplantation: clinical and virological features. Crespo J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):524-5
Anti-HCV antibody is sensitive but not sufficient to detect HCV active infection in renal transplanted patients: the role of PCR for HCV-RNA. David-Neto E, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):781-2
Typing of hepatitis C virus antibody with specific peptides in seropositive blood donors and comparison with genotyping of viral RNA. León P, et al. **Vox Sang** 1997; 72(2):71-5
Incidence of hepatitis C virus RNA in anti-HCV-negative plasma pools and blood products. Saldanha J, et al. **Vox Sang** 1996;70(4):232-4
Look-back of anti-HCV ELISA-positive, HCV-RNA PCR-negative donors and recipients of their blood products. Vrielink H, et al. **Vox Sang** 1997;72(2):67-70
[Establishment of anti-HCV NS5 alpha McAb hybridoma cell lines and its application on clinical immunohistochemical diagnosis] Gao J, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):585-7 (Eng. Abstr.) **(Chi)**
[Establishment of labeled primer reverse transcription in situ polymerase chain reaction and detection of hepatitis C virus in liver tissues] Liu Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Jun;76(6):431-4 (Eng. Abstr.) **(Chi)**
[Detection of HCV RNA in anti-HCV positive patients with chronic hepatic porphyria] Malina L, et al. **Cas Lek Cesk** 1996 Jul 26;135(13):427-9 (Eng. Abstr.) **(Cze)**
[Biological diagnosis of hepatitic C virus infections] Buisson Y, et al. **Bull Acad Natl Med** 1996 Jun-Jul;180(6):1241-50; discussion 1250-1 (Eng. Abstr.) **(Fre)**
[Hepatitis C] Laverdant C. **Bull Acad Natl Med** 1996 Jun-Jul; 180(6):1215-7 **(Fre)**
[Epidemiology of infections linked to hepatitis C virus in France] Roudot-Thoraval F. **Bull Acad Natl Med** 1996 Jun-Jul;180(6):1253-62; discussion 1263-5 (Eng. Abstr.) **(Fre)**
[Hepatitis C virus in hemodialysis patients and blood donors in Lebanon] Naman RE, et al. **J Med Liban** 1996;44(1):4-9 (Eng. Abstr.) **(Fre)**
[Outcome of the cases of chronic liver disease type C who exhibited long term response to interferon therapy; comparison of the cases with or without serum HCV-RNA] Tohyama H, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Nov;93(11):813-20 (Eng. Abstr.) **(Jpn)**
[Monitoring of inhibitors of the polymerase chain reaction for the detection of hepatitis C virus using the positive internal control] Masukawa A, et al. **Rinsho Byori** 1997 Jul;45(7):673-8 (Eng. Abstr.) **(Jpn)**
[Comparison of three methods for quantitative measurement of hepatitis C virus] Yukimasa N, et al. **Rinsho Byori** 1997 Mar;45(3):260-4 (Eng. Abstr.) **(Jpn)**
[Prevalence of serological markers for viral hepatitis B and C in patients and medical personnel in the hematologic ward of Novosibirsk city hospital No. 2] Netesova IG, et al. **Vopr Virusol** 1997 Jan-Feb;42(1):27-30 (Eng. Abstr.) **(Rus)**
[Spontaneous disappearance of viremia in hemophiliacs with chronic hepatitis C (letter)] Aguilar C, et al. **Sangre (Barc)** 1996 Apr;41(2):159-60 **(Spa)**

METABOLISM

Suppression of actinomycin D-induced apoptosis by the NS3 protein of hepatitis C virus. Fujita T, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):825-31
Plasmid DNA-based immunization for hepatitis C virus structural proteins: immune responses in mice [see comments] Saito T, et al. **Gastroenterology** 1997 Apr; 112(4):1321-30. Comment in: Gastroenterology 1997 Apr;112(4):1410-4.
Hepatitis C virus-related proteins in kidney tissue from hepatitis C virus-infected patients with cryoglobulinemic membranoproliferative glomerulonephritis. Sansonno D, et al. **Hepatology** 1997 May;25(5):1237-44
In vitro cleavage of hepatitis C virus polyprotein substrates by purified recombinant NS3 protease. D'Souza ED, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1729-36
Processing pathways of the hepatitis C virus proteins. Lohmann V, et al. **J Hepatol** 1996;24(2 Suppl):11-9 (63 ref.)
Immunosuppressive therapy and hepatitis C virus infection: the clinical course of liver disease. Grotz WH, et al. **J Mol Med** 1996 Jul;74(7):407-12
The N-terminal region of hepatitis C virus-encoded NS5A is important for NS4A-dependent phosphorylation. Asabe SI, et al. **J Virol** 1997 Jan;71(1):790-6
Nonstructural protein 3 of hepatitis C virus blocks the

distribution of the free catalytic subunit of cyclic AMP-dependent protein kinase. Borowski P, et al. **J Virol** 1997 Apr;71(4):2838-43

Formation of native hepatitis C virus glycoprotein complexes. Deleersnyder V, et al. **J Virol** 1997 Jan; 71(1):697-704

The hepatitis C virus NS4A protein: interactions with the NS4B and NS5A proteins. Lin C, et al. **J Virol** 1997 Sep; 71(9):6465-71

Regulated processing of hepatitis C virus core protein is linked to subcellular localization. Liu Q, et al. **J Virol** 1997 Jan;71(1):657-62

Interaction between hepatitis C virus core protein and E1 envelope protein. Lo SY, et al. **J Virol** 1996 Aug; 70(8):5177-82

Hepatitis C virus core protein interacts with the cytoplasmic tail of lymphotoxin-beta receptor. Matsumoto M, et al. **J Virol** 1997 Feb;71(2):1301-9

Phosphorylation of the hepatitis C virus NS5A protein in vitro and in vivo: properties of the NS5A-associated kinase. Reed KE, et al. **J Virol** 1997 Oct;71(10):7187-97

Hepatitis C virus envelope proteins bind lactoferrin. Yi M, et al. **J Virol** 1997 Aug;71(8):5997-6002

Immunoreactive core peptides of hepatitis C virus produced in Escherichia coli and in vitro DNA amplification-restricted transcription-translation system. Esumi M, et al. **J Virol Methods** 1996 May;59(1-2):91-8

Is hepatitis C virus RNA detectable in dialysis ultrafiltrate? [letter] Manzini P, et al. **Nephron** 1996;72(1):102-3

Expression of HCV envelope proteins and the serological utility of the anti-E2 immune response. Lesniewski RR, et al. **Princess Takamatsu Symp** 1995;25:129-37

Processing of hepatitis C virus precursor polyprotein. Shimotohno K, et al. **Princess Takamatsu Symp** 1995; 25:121-8 (21 ref.)

Enhancement of hepatitis C virus NS3 proteinase activity by association with NS4A-specific synthetic peptides: identification of sequence and critical residues of NS4A for the cofactor activity. Butkiewicz NJ, et al. **Virology** 1996 Nov 15;225(2):328-38

Hepatitis C virus core protein: carboxy-terminal boundaries of two processed species suggest cleavage by a signal peptide peptidase. Hüssy P, et al. **Virology** 1996 Oct 1; 224(1):93-104

Delineation of regions important for heteromeric association of hepatitis C virus E1 and E2. Yi M, et al. **Virology** 1997 Apr 28;231(1):119-29

Purification and in vitro-phospholabeling of secretory envelope proteins E1 and E2 of hepatitis C virus expressed in insect cells. Hüssy P, et al. **Virus Res** 1996 Nov; 45(1):45-57

PATHOGENICITY

The role of hepatitis C virus in alcoholic liver disease. Grellier LF, et al. **Alcohol Alcohol** 1997 Mar-Apr; 32(2):103-11 (58 ref.)

Aedes albopictus (Diptera:Culicidae) is incompetent as a vector of hepatitis C virus. Bellini R, et al. **APMIS** 1997 Apr;105(4):299-302

Relationship between viral genotype and viral load in patients with chronic hepatitis C. García F, et al. **Eur J Clin Microbiol Infect Dis** 1996 Nov;15(11):884-7

Chronic hepatitis infected with hepatitis GB virus type C/hepatitis G virus presenting as non-alcoholic steatohepatitis [see comments] Saito H, et al. **Intern Med** 1997 Apr;36(4):283-8. Comment in: Intern Med 1997 Apr;36(4):236-7.

Lack of association between type of hepatitis C virus, serum load and severity of liver disease. Romeo R, et al. **J Viral Hepat** 1996 Jul;3(4):183-90

Hepatitis C virus and non-Hodgkin's lymphomas. Pozzato G, et al. **Leuk Lymphoma** 1996 Jun;22(1-2):53-60 (88 ref.)

Correlation of in vivo infectivity of hepatitis C virus to in vitro infectivity and to virion properties. Yoshikura H, et al. **Princess Takamatsu Symp** 1995;25:139-42

PHYSIOLOGY

Virus inactivation in blood [editorial] Ben-Hur E, et al. **AIDS** 1996 Sep;10(11):1183-90

Serial quantitation of serum core protein and viral RNA of hepatitis C virus after interferon therapy: increase in viral loads in biochemical responders. Yoshioka K, et al. **Am J Gastroenterol** 1997 Aug;92(8):1305-9

Hepatitis G virus replication in human cultured cells displaying susceptibility to hepatitis C virus infection. Ikeda M, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):505-8

Wild-type, but not mutant-type, p53 enhances nuclear accumulation of the NS3 protein of hepatitis C virus. Ishido S, et al. **Biochem Biophys Res Commun** 1997 Jan 13; 230(2):431-6

Long-term human T-cell culture system supporting hepatitis C virus replication. Mizutani T, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):822-6

The nonstructural proteins of the hepatitis C virus: structure and functions. Neddermann P, et al. **Biol Chem** 1997 Jun; 378(6):469-76 (84 ref.)

Has hepatitis C virus a specific tropism for the synovial membrane? [letter] Cimmino MA, et al. **Br J Rheumatol** 1997 Apr;36(4):505-6

Genetic heterogeneity of hepatitis C virus. The clinical significance of genotypes and quasispecies behavior. Marrone A, et al. **Clin Lab Med** 1996 Jun;16(2):429-49 (74 ref.)

Virology of hepatitis C virus. Simmonds P. **Clin Ther** 1996; 18 Suppl B:9-36 (135 ref.)

Recombinant human granulocyte colony-stimulating factor reduces hepatitis C virus replication in mononuclear cells from chronic hepatitis C patients. Martin J, et al. **Cytokine** 1996 Apr;8(4):313-7

Hepatitis C virus: molecular biology and genetic variability. Bréchot C. **Dig Dis Sci** 1996 Dec;41(12 Suppl):6S-21S (162 ref.)

Viral replication in patients with concomitant hepatitis B and C virus infections. Crespo J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):445-51

Viral dynamics of hepatitis C early after orthotopic liver transplantation: evidence for rapid turnover of serum virions. Fukumoto T, et al. **Hepatology** 1996 Dec; 24(6):1351-4

The hepatitis C virus: overview. Purcell R. **Hepatology** 1997 Sep;26(3 Suppl 1):11S-14S (39 ref.)

Hepatitis C virus replicative levels and efficiency of genotyping by specific PCR and antibody assay. Yuki N, et al. **J Clin Microbiol** 1997 May;35(5):1184-9

Hepatitis C virus core protein induces hepatic steatosis in transgenic mice. Moriya K, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1527-31

A reevaluation of the association of hepatitis C virus replicative intermediates with peripheral blood cells including granulocytes by a tagged reverse transcription/polymerase chain reaction technique. Mihm S, et al. **J Hepatol** 1996 Apr;24(4):491-7

Analysis of mother-to-infant transmission of hepatitis C virus: quasispecies nature and buoyant densities of maternal virus populations. Kudo T, et al. **J Med Virol** 1997 Mar; 51(3):225-30

Hepatitis C virus is frequently coinfected with serum marker-negative hepatitis B virus: probable replication promotion of the former by the latter as demonstrated by in vitro cotransfection. Uchida T, et al. **J Med Virol** 1997 Aug;52(4):399-405

Replication of hepatitis C virus. Yoshikura H, et al. **J Viral Hepat** 1996 Jan;3(1):3-10 (50 ref.)

Characterization of hepatitis C virus replication in cloned cells obtained from a human T-cell leukemia virus type 1-infected cell line, MT-2. Mizutani T, et al. **J Virol** 1996 Oct;70(10):7219-23

The role of hepatitis C virus in the aetiology of non-Hodgkins lymphoma--a regional association? McColl MD, et al. **Leuk Lymphoma** 1997 Jun;26(1-2):127-30

Hepatitis C after renal transplantation: histopathological correlations. Hestin D, et al. **Nephrol Dial Transplant** 1996; 11 Suppl 4:52-3

Hepatitis B virus HBx protein sensitizes cells to apoptotic killing by tumor necrosis factor alpha. Su F, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8744-9

Hepatitis C virus infection of a Vero cell clone displaying efficient virus-cell binding. Valli MB, et al. **Res Virol** 1997 Mar-Apr;148(2):181-6

Virus inactivation by pepsin treatment at pH 4 of IgG solutions: factors affecting the rate of virus inactivation. Omar A, et al. **Transfusion** 1996 Oct;36(10):866-72

Kinetics of hepatitis C viremia after orthotopic liver transplantation. Fukumoto T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):511-3

Suppression of apoptotic cell death by hepatitis C virus core protein. Ray RB, et al. **Virology** 1996 Dec 15;226(2):176-82

[Appearance of hepatitis C virus replication and increase of aminotransferase activity after corticoid treatment of presumed autoimmune hepatitis. 2 cases] Béchade D, et al. **Gastroenterol Clin Biol** 1996;20(8-9):696-9 (Eng. Abstr.) **(Fre)**

ULTRASTRUCTURE

Identification of hepatitis C virus by immunoelectron microscopy. Li X, et al. **J Viral Hepat** 1995;2(5):227-34

[Hepatitis C virus. Structure and genetic variability] Bréchot C. **Bull Acad Natl Med** 1996 Jun-Jul;180(6):1219-39; discussion 1239-40 (92 ref.) (Eng. Abstr.) **(Fre)**

[Detecting hepatitis C virus RNA by in situ hybridization: a critical analysis] Negro F, et al. **Gastroenterol Clin Biol** 1997;21(2):93-7 (58 ref.) **(Fre)**

HEPATITIS C VIRUS see HEPATITIS C-LIKE VIRUSES

HEPATITIS, CHRONIC ACTIVE

Chronic viral hepatitis in childhood. Bortolotti F. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):185-206 (97 ref.)

Acute fatty liver of pregnancy superimposed on chronic active hepatitis. Khan GA, et al. **Conn Med** 1995 Dec; 59(12):707-10

Chronic hepatitis C. Sharara AI. **South Med J** 1997 Sep; 90(9):872-7 (33 ref.)

Management of autoimmune hepatitis. Nishioka M. **Trop Gastroenterol** 1997 Jan-Mar;18(1):3-7 (15 ref.)

[Hepatitis virus and alcoholic liver disease] Parés A, et al. **Gastroenterol Hepatol** 1996 Aug-Sep;19(7):383-9 (49 ref.) **(Spa)**

BLOOD

Serum aminotransferase levels and histological disease in chronic hepatitis C. Michielsen PP, et al. **Acta Gastroenterol Belg** 1997 Jan-Mar;60(1):11-4

Serum lipid and lipoprotein patterns in patients with liver cirrhosis and chronic active hepatitis. Cicognani C, et al. **Arch Intern Med** 1997 Apr 14;157(7):792-6

Mechanism of PAP I gene induction during hepatocarcinogenesis: clinical implications. Dusetti NJ, et al. **Br J Cancer** 1996 Dec;74(11):1767-75

Detection of alphafetoprotein-expressing cells in the blood of patients with hepatoma and hepatitis. Jiang SY, et al. **Br J Cancer** 1997;75(6):928-33

Plasma levels of transforming growth factor beta 1 in chronic liver disease [letter] Hayasaka A, et al. **Clin Chim Acta** 1996 Jan 15;244(1):117-9

Plasma vitronectin concentrations in patients with chronic hepatitis C treated with interferon alpha. Yamada S, et al. **Clin Chim Acta** 1997 May 6;261(1):81-90

Quantification of serum hepatitis C virus core protein level in patients chronically infected with different hepatitis C virus genotypes. Orito E, et al. **Gut** 1996 Dec;39(96):876-80

Interferon alpha induces disorder of lipid metabolism by lowering postheparin lipases and cholesteryl ester transfer protein activities in patients with chronic hepatitis C. Shinohara E, et al. **Hepatology** 1997 Jun;25(6):1502-6

Serum cholesterol and chronic hepatitis C. Maggi G, et al. **Ital J Gastroenterol** 1996 Oct-Nov;28(8):436-40

Elevation of interleukin 6 levels in patients with chronic hepatitis due to hepatitis C virus. Malaguarnera M, et al. **J Gastroenterol** 1997 Apr;32(2):211-5

Clinical significance of serum hyaluronan in patients with chronic viral liver disease. Murawaki Y, et al. **J Gastroenterol Hepatol** 1996 May;11(5):459-65

Serum tumor markers in chronic liver disease. Kadayifci A, et al. **Neoplasma** 1996;43(1):17-21

Variations of zinc in acute and chronic hepatitis (preliminary data). Tănăsescu C, et al. **Rom J Intern Med** 1996 Jan-Jun; 34(1-2):79-84

[Clinical and virological evaluation of the detection of pre-S1 and pre-S2 antigens in serum from patients with chronic hepatitis B] Zoulim F, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):970-5 (Eng. Abstr.) **(Fre)**

CHEMICALLY INDUCED

Minocycline related lupus [letter] Emery P, et al. **J Rheumatol** 1997 Sep;24(9):1850; discussion 1851-2

CLASSIFICATION

[Chronic hepatitis: nomenclature and classification] Callea F. **Pathologica** 1997 Feb;89(1):86-8 (15 ref.) **(Ita)**

COMPLICATIONS

MALT non-Hodgkin's lymphoma associated with hepatitis C virus infection treated by interferon alpha [letter] Bauduer F. **Am J Hematol** 1996 Nov;53(3):209

Prevalence of antidelta in Turkish children with chronic hepatitis B infection [letter] Yüce A, et al. **Arch Dis Child** 1996 Oct;75(4):355

Urticarial vasculitis [letter; comment] Lin RY. **Br J Dermatol** 1996 Dec;135(6):1016. Comment on: Br J Dermatol 1995 May;132(5):821-3.

Systemic lupus erythmatosus associated with autoimmune hepatitis two cases with novel autoantibodies to transfer RNA-related antigens. Satoh T, et al. **Clin Rheumatol** 1997 May;16(3):305-9

Pruritis in chronic hepatitis C: association with high serum bile acids, advanced pathology, and bile duct abnormalities. Lebovics E, et al. **Dig Dis Sci** 1997 May;42(5):1094-9

The relative roles of hepatitis B and C viruses in the etiology of hepatocellular carcinoma in southern African blacks. Kew MC, et al. **Gastroenterology** 1997 Jan;112(1):184-7

Interferon treatment of porphyria cutanea tarda associated with chronic hepatitis type C. Okano J, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):525-8

Long-term evolution of fibrosis from chronic hepatitis to cirrhosis in patients with hepatitis C: morphometric analysis of repeated biopsies. Kage M, et al. **Hepatology** 1997 Apr; 25(4):1028-31

Sequential occurrence of hepatocellular carcinoma following Waldenström's macroglobulinemia: the pathogenetic role of chronic liver disease. Izumi T, et al. **Intern Med** 1996 May;35(5):416-8

Epidemiology, clinical spectrum and prognostic value of mixed cryoglobulinaemia in hepatitis C virus patients: a prospective study. Adinolfi LE, et al. **Ital J Gastroenterol** 1996 Jan;28(1):1-9

Thrombocytopenia as a sensitive marker of immunologic activity in a patient with autoimmune chronic active hepatitis. Persico M, et al. **Ital J Gastroenterol** 1996 Jul-Aug;28(6):340-2

Generalized lichen planus associated with hepatitis C virus immunoreactivity. Bellman B, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 1):770-2

Lichen planus and Sjögren-type sicca syndrome in a patient with chronic hepatitis C. Tanei R, et al. **J Dermatol** 1997 Jan;24(1):20-7

Hypergammaglobulinemic purpura associated with Sjögren's syndrome and chronic C type hepatitis. Yamamoto T, et al. **J Dermatol** 1997 Jan;24(1):7-11

Case report: primary hepatic lymphoma associated with chronic liver disease. Higuchi T, et al. **J Gastroenterol Hepatol** 1997 Mar;12(3):237–42 (90 ref.)

Case report: development of hepatocellular carcinoma in a patient with chronic hepatitis C infection after a complete and sustained response to interferon-alpha. Hirashima N, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):955–8

Cryoglobulinemia in hepatitis C virus chronic active hepatitis: effects of interferon-alpha therapy. Casaril M, et al. **J Interferon Cytokine Res** 1996 Aug;16(8):585–8

Natural history of liver fibrosis progression in patients with chronic hepatitis C. The OBSVIRC, METAVIR, CLINIVIR, and DOSVIRC groups. Poynard T, et al. **Lancet** 1997 Mar 22;349(9055):825–32

Cerebral venous thrombosis and chronic active hepatitis as part of the antiphospholipid syndrome. Kesler A, et al. **Postgrad Med J** 1996 Nov;72(853):690–2

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of hepatitis B virus DNA. Lazizi Y, et al. **Vaccine** 1997 Jul;15(10):1095–100

[Severe hepatitis attributed to paroxetine (Seroxat)] de Man RA. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):540–2 (Eng. Abstr.) **(Dut)**

[Cryoglobulinemia in chronic liver diseases: cause or consequence?] Csepregi A, et al. **Orv Hetil** 1997 Mar 16; 138(11):651–6 (46 ref.) (Eng. Abstr.) **(Hun)**

DIAGNOSIS

Clinical manifestations of HBsAg and anti-HCV negative chronic liver disease in Nagasaki Prefecture, Japan. Omagari K, et al. **Intern Med** 1996 Aug;35(8):600–4

Incidence of hepatitis C in patients with chronic elevations of aminotransferases [see comments] Salazar AE, et al. **J Am Board Fam Pract** 1996 May–Jun;9(3):157–61. Comment in: J Am Board Fam Pract 1996 Sep–Oct;9(5):391.

Evidence for an overlap syndrome of autoimmune hepatitis and primary sclerosing cholangitis. Gohlke F, et al. **J Hepatol** 1996 Jun;24(6):699–705

Comparison of HCV RNA assays for the detection and quantification of hepatitis C virus RNA levels in serum of patients with chronic hepatitis C treated with interferon. Trabaud MA, et al. **J Med Virol** 1997 May;52(1):105–12

[Chronic hepatitis. Differential diagnosis and therapy. 2: Differential hepatitis C diagnosis] Schlaak JF, et al. **Fortschr Med** 1997 Jul 20;115(20–21):38–9 **(Ger)**

[When does hepatitis C infection become chronic?] Spengler U. **Fortschr Med** 1997 Jan 30;115(3):33–4 **(Ger)**

[Diagnosis and therapy of chronic viral hepatitis] Heintges T, et al. **Z Gastroenterol** 1996 Jul;34(7):446–56 (127 ref.) (Eng. Abstr.) **(Ger)**

[A case of chronic active viral hepatitis B combined with HIV carriage, malaria and syphilis] Shkurba AV, et al. **Lik Sprava** 1996 Oct–Dec;(10–12):158–9 **(Ukr)**

DRUG THERAPY

Multiple changes in thyroid function in patients with chronic active HCV hepatitis treated with recombinant interferon-alpha. Roti E, et al. **Am J Med** 1996 Nov; 101(5):482–7

Effect of ethinyl estradiol on chronic active hepatitis [letter] [corrected and republished letter originally printed in Ann Intern Med 1996 Oct 15;125(8):700] Guattery JM, et al. **Ann Intern Med** 1997 Jan 1;126(1):88

The long term efficacy of glycyrrhizin in chronic hepatitis C patients. Arase Y, et al. **Cancer** 1997 Apr 15; 79(8):1494–500

Plasma vitronectin concentrations in patients with chronic hepatitis C treated with interferon alpha. Yamada S, et al. **Clin Chim Acta** 1997 May 6;261(1):81–90

Onset of diabetes with high titer anti-GAD antibody after IFN therapy for chronic hepatitis. Shiba T, et al. **Diabetes Res Clin Pract** 1995 Dec;30(3):237–41

Thymus-derived peptides in the treatment of viral chronic hepatitis [see comments] Naylor PH, et al. **Dig Dis** 1996 Nov–Dec;14(6):362–70 (41 ref.). Comment in: Dig Dis 1996 Nov–Dec;14(6):331–3.

A novel histological lesion in glucocorticoid-responsive chronic hepatitis. Pratt DS, et al. **Gastroenterology** 1997 Aug;113(2):664–8

Treatment of autoimmune hepatitis. Johnson PJ. **Gut** 1997 Jul;41(1):3–4

Pretreatment virus load and multiple amino acid substitutions in the interferon sensitivity-determining region predict the outcome of interferon treatment in patients with chronic genotype 1b hepatitis C virus infection [see comments] Chayama K, et al. **Hepatology** 1997 Mar;25(3):745–9. Comment in: Hepatology 1997 Mar;25(3):769–71.

Mutations in the nonstructural 5A gene of European hepatitis C virus isolates and response to interferon alfa [see comments] Zeuzem S, et al. **Hepatology** 1997 Mar; 25(3):740–4. Comment in: Hepatology 1997 Mar;25(3):769–71.

Interferon or corticosteroid: treatment of patients with chronic hepatitis C positive for serum markers of autoimmune diseases [editorial] Toda G. **Intern Med** 1997 Apr;36(4):233–5

Does the presence of serum autoantibodies influence the responsiveness to interferon-alpha 2a treatment in chronic hepatitis C? Wada M, et al. **Intern Med** 1997 Apr; 36(4):248–54

A pilot study of thymosin-alpha 1 therapy for chronic hepatitis D. Zavaglia C, et al. **J Clin Gastroenterol** 1996 Sep;23(2):162–3

Cyclosporine therapy affects aminotransferase activity but not hepatitis C virus RNA levels in chronic hepatitis C. Kakumu S, et al. **J Gastroenterol Hepatol** 1997 Jan; 12(1):62–6

Serum interleukin 2 and soluble interleukin 2 receptor in chronic active hepatitis C: effect of interferon therapy. Simsek H, et al. **J Int Med Res** 1996 May–Jun;24(3):239–45

Exacerbation of myasthenia gravis during interferon-alpha treatment [letter] Uyama E, et al. **J Neurol Sci** 1996 Dec; 144(1–2):221–2

Changes in results of Gallium-67-citrate scanning after interferon therapy for chronic hepatitis C. Shiomi S, et al. **J Nucl Med** 1997 Feb;38(2):216–9

Prolonged and high dose recombinant interferon alpha-2b alone or after prednisone priming accelerates termination of active viral replication in children with chronic hepatitis B infection. Vajro P, et al. **Pediatr Infect Dis J** 1996 Mar; 15(3):223–31

Psoriatic arthritis with spinal involvement in a patient receiving alpha-interferon for chronic hepatitis C. Lombardini F, et al. **Scand J Rheumatol** 1997;26(1):58–60

Incidence of hepatocellular carcinoma after interferon therapy in patients with chronic hepatitis C. Onodera H, et al. **Tohoku J Exp Med** 1997 Feb;181(2):275–83

Efficacy of lamivudine in chronic hepatitis B patients with active viral replication and decompensated cirrhosis undergoing liver transplantation. Bain VG, et al. **Transplantation** 1996 Nov 27;62(10):1456–62

Cyclophosphamide as alternative immunosuppressive therapy for autoimmune hepatitis—report of three cases. Kanzler S, et al. **Z Gastroenterol** 1997 Jul;35(7):571–8

[Clinical and experimental study on effect of ganyan IV in treatment of chronic active hepatitis complicated with hyperbilirubinemia] Hu YH, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Apr; 16(4):210–2 (Eng. Abstr.) **(Chi)**

[Positive effect of ursodeoxycholic acid on liver enzymes in autoimmune hepatitis with little activity—a pilot study] Janowitz P, et al. **Leber Magen Darm** 1996 Nov;26(6):310–3 (Eng. Abstr.) **(Ger)**

[Therapy noncompliance in chronic viral hepatitis—standard therapy, prognostic parameters, treatment strategy] Hopf U. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):83–5 **(Ger)**

[Therapy of chronic hepatitis B virus infection with the nucleoside analog lamivudine] Jung MC, et al. **Z Gastroenterol** 1996 Dec;34(12):827–8 **(Ger)**

[Ribavirin for chronic hepatitis C: many doubts and some hope (editorial; comment)] Andrade Júnior DR, et al. **Arq Gastroenterol** 1995 Jul–Sep;32(3):102–4. Comment on: Arq Gastroenterol 1996 Jul–Sep;32(3):105–9. **(Por)**

[The clinico-immunological efficacy of the new drug preparation Erbisol in patients with chronic hepatitis] Bychkova NG, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):65–7 (Eng. Abstr.) **(Rus)**

[Treatment with interferon alpha of hemophiliacs with chronic hepatitis C (letter)] Aguilar Franco C, et al. **Rev Clin Esp** 1996 Oct;196(10):727–8 **(Spa)**

ECONOMICS

[Cost-effectiveness analysis of the treatment of chronic hepatitis C (see comments)] Joliot E, et al. **Gastroenterol Clin Biol** 1996;20(11):958–67 (Eng. Abstr.). Comment in: Gastroenterol Clin Biol 1997;21(4):336–8. **(Fre)**

EPIDEMIOLOGY

Hepatitis C virus infection in 'primary' Sjögren's syndrome: prevalence and clinical significance in a series of 90 patients. García-Carrasco M, et al. **Ann Rheum Dis** 1997 Mar;56(3):173–5

Chronic hepatitis C virus infection after treatment for pediatric malignancy. Cesaro S, et al. **Blood** 1997 Aug 1; 90(3):1315–20

The natural history of chronic hepatitis C infection. Strader DB, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):324–8 (31 ref.)

GB virus C infection in patients with chronic hepatitis B and C before and after liver transplantation. Berg T, et al. **Transplantation** 1996 Sep 27;62(6):711–4

[Chronic transfusion hepatitis—an underestimated disease] Henschel M, et al. **Med Klin** 1996 Jul 15;91(7):438–41 (Eng. Abstr.) **(Ger)**

ETIOLOGY

Hepatitis B virus X antigen in the pathogenesis of chronic infections and the development of hepatocellular carcinoma. Feitelson MA, et al. **Am J Pathol** 1997 Apr; 150(4):1141–57 (164 ref.)

Pathogenesis of chronic hepatitis C and associated clinical manifestations. Booth JC, et al. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):257–74 (96 ref.)

Iron and chronic viral hepatitis. Bonkovsky HL, et al. **Hepatology** 1997 Mar;25(3):759–68 (118 ref.)

Posttransplantation chronic hepatitis in fulminant hepatic failure. Mohamed R, et al. **Hepatology** 1997 Apr; 25(4):1003–7

GBV-C/HGV is not the major cause of autoimmune hepatitis. Heringlake S, et al. **J Hepatol** 1996 Dec; 25(6):980–4

[Advances in the research on pathogenic mechanism of chronic hepatitis B] Huang A, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):632–4 (16 ref.) **(Chi)**

[Chronic hepatitis. Differential diagnosis and therapy—1] Schlaak JF, et al. **Fortschr Med** 1997 Jul 10;115(19):34–6 **(Ger)**

[Chronic hepatitis] Trautwein C, et al. **Internist (Berl)** 1997 Mar;38(3):283–95 (10 ref.) **(Ger)**

[Pathology and pathogenesis of viral hepatitis] Schaff Z, et al. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1459–62 (25 ref.) (Eng. Abstr.) **(Hun)**

GENETICS

MHC class II genes influence the susceptibility to chronic active hepatitis C. Höhler T, et al. **J Hepatol** 1997 Aug; 27(2):259–64

IMMUNOLOGY

Experimental hepatitis and role of cytokines. Tiegs G. **Acta Gastroenterol Belg** 1997 Apr–Jun;60(2):176–9 (31 ref.)

Extrahepatic immunologic features of chronic viral hepatitis. Czaja AJ. **Dig Dis** 1997 May–Jun;15(3):125–44 (109 ref.)

In-situ immunophenotyping study of hepatic-infiltrating cytotoxic cells in chronic active hepatitis C. Fiore G, et al. **Eur J Gastroenterol Hepatol** 1997 May;9(5):491–6

Gm and Km phenotype frequencies in children with chronic active hepatitis (CAH) B virus infection. Kacprzak-Bergman I, et al. **Eur J Immunogenet** 1994 Oct; 21(5):373–6

Frequency of complement third component (C3) and properdin factor (BF) phenotypes in patients with various clinical manifestations of HBV infection. Kacprzak-Bergman I, et al. **Eur J Immunogenet** 1996 Feb; 23(1):1–6

Different cytokine profiles of intraphepatic T cells in chronic hepatitis B and hepatitis C virus infections. Bertoletti A, et al. **Gastroenterology** 1997 Jan;112(1):193–9

Patients who do better do better. Koretz RL. **Gastroenterology** 1997 Apr;112(4):1418–20

Autoantibodies against glucuronosyltransferases differ between viral hepatitis and autoimmune hepatitis. Strassburg CP, et al. **Gastroenterology** 1996 Dec; 111(6):1576–86

A comparison of the prevalence of autoantibodies in individuals with chronic hepatitis C and those with autoimmune hepatitis: the role of interferon in the development of autoimmune diseases. Bayraktar Y, et al. **Hepatogastroenterology** 1997 Mar–Apr;44(14):417–25

B7/BB-1 expression and hepatitis activity in liver tissues of patients with chronic hepatitis C. Mochizuki K, et al. **Hepatology** 1997 Mar;25(3):713–8

Detection of type 2-like T-helper cells in hepatitis C virus infection: implications for hepatitis C virus chronicity. Tsai SL, et al. **Hepatology** 1997 Feb;25(2):449–58

Variations of serum IgG subclass levels in hepatitis C virus infection during interferon-alpha therapy. Musset L, et al. **Immunol Lett** 1997 Jan;55(1):41–5

Immunological effects following administration of interferon-alpha in patients with chronic hepatitis C virus (cHCV) infection. Jirillo E, et al. **Immunopharmacol Immunotoxicol** 1996 Aug;18(3):355–74

Natural killing activities in chronic liver diseases and hepatocellular carcinoma. Ono K, et al. **J Clin Immunol** 1996 Jan;16(1):41–5

HLA B44-restricted cytotoxic T lymphocyte responses to the peptides of HCV nucleoprotein residues 81–100 in patients with chronic hepatitis C. Kita H, et al. **J Gastroenterol** 1995 Dec;30(6):809–12

Increased frequency of HLA DR13 in hepatitis C virus carriers with persistently normal ALT levels. Kuzushita N, et al. **J Med Virol** 1996 Jan;48(1):1–7

Characteristics of the intrahepatic cytotoxic T lymphocyte response in chronic hepatitis C virus infection. Koziel MJ, et al. **Springer Semin Immunopathol** 1997;19(1):69–83 (90 ref.)

Hepatic lymphoid aggregates in chronic hepatitis C and mixed cryoglobulinemia. Monteverde A, et al. **Springer Semin Immunopathol** 1997;19(1):99–110

Comparative features of hepatitis C virus infection in humans and chimpanzees. Walker CM. **Springer Semin Immunopathol** 1997;19(1):85–98

Selective unresponsiveness to HBsAg vaccine in newborns related with an in utero passage of hepatitis B virus DNA. Lazizi Y, et al. **Vaccine** 1997 Jul;15(10):1095–100

Evaluation of third-generation hepatitis C antibody assay in chronic hepatitis C and chronic non-B, non-C hepatitis. Kao JH, et al. **Viral Immunol** 1995;8(3):135–9

[Coexistence of virus C and antinuclear antibodies in chronic active hepatitis: diagnostic and therapeutic implications] Pirotte J. **Rev Med Liege** 1996 Sep;51(9):586–9 **(Fre)**

[Occurrence and significance of autoantibodies in the course of interferon therapy of chronic hepatitis C] Heller J, et al. **Dtsch Med Wochenschr** 1996 Sep 27;121(39):1179–83 (Eng. Abstr.) **(Ger)**

[The peripheral blood lymphocyte subpopulations in chronic anti-HCV-positive liver disease: their significance and correlation with liver function] Rocco P, et al. **Minerva Gastroenterol Dietol** 1996 Jun;42(2):51–5 (Eng.

Abstr.) **(Ita)**

[The influence of anti-interferon-alpha 2a antibodies in initial daily four-week interferon-alpha 2a therapy for chronic hepatitis C] **Habu D**, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):319-27 (Eng. Abstr.) **(Jpn)**

[The transformation of acute viral hepatitis B into chronic] Sorinson SN, et al. **Klin Med (Mosk)** 1996;74(2):37-40 (Eng. Abstr.) **(Rus)**

[The clinico-immunological characteristics of chronic lobular hepatitis] Dudanova OP, et al. **Lik Sprava** 1995 Mar-Apr;(3-4):149-52 (Eng. Abstr.) **(Rus)**

[The level of circulating immune complexes and the microhemodynamic status in chronic liver lesions] Petrunia AM, et al. **Lik Sprava** 1996 Jan-Feb;(1-2):77-9 (Eng. Abstr.) **(Rus)**

[Seroprevalence of hepatitis A antibodies in patients with chronic hepatitis (letter)] Bañares R, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):183 **(Spa)**

[Viral hepatitis markers and the liver connective tissue, blood leukocyte and bone marrow systems in patients with chronic hepatitis] Babak OIa. **Lik Sprava** 1995 Mar-Apr; (3-4):147-9 **(Ukr)**

METABOLISM

Cholestyramine loading test to assess hepatic reserve for bile acid synthesis in patients with chronic liver diseases. Kuroki S, et al. **Gastroenterology** 1997 Apr;112(4):1277-83

Progressive liver injury in chronic hepatitis C infection correlates with increased intrahepatic expression of Th1-associated cytokines. Napoli J, et al. **Hepatology** 1996 Oct;24(4):759-65

Increased expression of cytokines in liver and serum in patients with extrahepatic diseases. Fukuma H, et al. **J Gastroenterol** 1996 Aug;31(4):538-45

Interleukin-1-producing plasma cells in close contact with hepatocytes in patients with chronic active hepatitis. Hassan G, et al. **J Hepatol** 1997 Jul;27(1):6-17

PATHOLOGY

Serum aminotransferase levels and histological disease in chronic hepatitis C. Michielsen PP, et al. **Acta Gastroenterol Belg** 1997 Jan-Mar;60(1):11-4

Relationship between composition of lymphoid cell infiltrates in the liver and replication status in chronic hepatitis B: an immunohistochemical study. Mosnier JF, et al. **Am J Clin Pathol** 1996 Nov;106(5):625-33

Hepatic iron stainings in chronic hepatitis C patients with low HCV RNA levels: a predictive marker for IFN therapy. Akiyoshi F, et al. **Am J Gastroenterol** 1997 Sep; 92(9):1463-6

Scoring of liver biopsies: are we doing it right? Scheuer PJ. **Eur J Gastroenterol Hepatol** 1996 Dec;8(12):1141-3

A novel histological lesion in glucocorticoid-responsive chronic hepatitis. Pratt DS, et al. **Gastroenterology** 1997 Aug;113(2):664-8

Analysis of histopathological manifestations of chronic hepatitis C virus infection with respect to virus genotype. Mihm S, et al. **Hepatology** 1997 Mar;25(3):735-9

Chronic lymphocytic sialoadenitis in HCV-related chronic liver disease: comparison of Sjögren's syndrome. Scott CA, et al. **Histopathology** 1997 Jan;30(1):41-8

'Relapse' of chronic active hepatitis--not always what it seems. Muller AF, et al. **Postgrad Med J** 1996 Jul; 72(849):431-2

A clinico-pathological study of 163 untreated cases of chronic hepatitis C. Graf J, et al. **Rev Soc Bras Med Trop** 1996 Jan-Feb;29(1):21-5

Hepatic lymphoid aggregates in chronic hepatitis C and mixed cryoglobulinemia. Monteverde A, et al. **Springer Semin Immunopathol** 1997;19(1):99-110

Comparative features of hepatitis C virus infection in humans and chimpanzees. Walker CM. **Springer Semin Immunopathol** 1997;19(1):85-98

[Advances in the pathological classification of viral hepatitis (editorial)] Wang T, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):67-9 (Eng. Abstr.) **(Chi)**

[Bile canaliculi in chronic hepatitis (ultrastructural study)] Ferraraccio F, et al. **Pathologica** 1997 Feb;89(1):18-25 (Eng. Abstr.) **(Ita)**

[Comparison of the different methods of grading and staging of chronic hepatitis] Foschini MP, et al. **Pathologica** 1996 Aug;88(4):263-9 (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

Does a long pre-operative hospital stay before hepatectomy improve liver dysfunction in HCC patients with chronic liver disease? Ezaki T, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):472-6

Hepatic lobar differences in progression of chronic liver disease: correlation of asialoglycoprotein scintigraphy and hepatic functional reserve. Matsuzaki S, et al. **Hepatology** 1997 Apr;25(4):828-32

Analysis of the core region of HCV genome isolated from patients with chronic hepatitis C during intervals of normal ALT concentration. Arataki K, et al. **J Gastroenterol** 1996 Feb;31(1):140-2

[Hepatitis C and dentistry. Review of the literature] Lodi L, et al. **Minerva Stomatol** 1996 Jun;45(6):253-8 (52 ref.) (Eng. Abstr.) **(Ita)**

[Levels of pituitary-thyroid axis hormones in men during the course of chronic active hepatitis and liver cirrhosis] Marek B. **Pol Arch Med Wewn** 1996 Oct;96(4):323-8 (Eng. Abstr.) **(Pol)**

[The microhemodynamics and immune status of patients with chronic viral lesions of the liver and their correction] Frolov VM, et al. **Lik Sprava** 1996 Oct-Dec;(10-12):144-6 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

[Preventive lamivudine against reinfection by hepatitis B after liver transplantation] Niederau C. **Z Gastroenterol** 1997 May;35(5):359-61 **(Ger)**

[Possibilities and perspectives of the prevention of viral hepatitis] Fehér J, et al. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1482-6 (Eng. Abstr.) **(Hun)**

RADIONUCLIDE IMAGING

Compartmental analysis of asialoglycoprotein receptor scintigraphy for quantitative measurement of liver function: a multicentre study. Ha-Kawa SK, et al. **Eur J Nucl Med** 1997 Feb;24(2):130-7

Hepatic lobar differences in progression of chronic liver disease: correlation of asialoglycoprotein scintigraphy and hepatic functional reserve. Matsuzaki S, et al. **Hepatology** 1997 Apr;25(4):828-32

SURGERY

Liver transplantation in virus-induced chronic liver disease. Colantoni A, et al. **Baillieres Clin Gastroenterol** 1996 Jul; 10(2):375-88 (65 ref.)

Rapid development of hepatic alpha1-antitrypsin globules after liver transplantation for chronic hepatitis C. Combs C, et al. **Gastroenterology** 1997 Apr;112(4):1372-5

Delayed correction of portal hypertension after portal vein conduit arterialization in liver transplantation. Neelamekam TK, et al. **Transplantation** 1997 Apr 15;63(7):1029-30

Anterior approach for difficult major right hepatectomy [see comments] Lai EC, et al. **World J Surg** 1996 Mar-Apr; 20(3):314-7; discussion 318. Comment in: World J Surg 1997 Mar-Apr;21(3):343.

THERAPY

Successful interferon treatment for lichen planus associated with chronic active hepatitis due to hepatitis C virus infection [letter] Lapidoth M, et al. **Acta Derm Venereol** 1997 Mar;77(2):171-2

Effect of alcohol intake on the efficacy of interferon therapy in patients with chronic hepatitis C as evaluated by multivariate logistic regression analysis. Mochida S, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):371A-377A

Interferon alfa-2b therapy for chronic hepatitis [letter; comment] Kirchner JT. **Am Fam Physician** 1997 May 15; 55(7):2434. Comment on: Am Fam Physician 1996 Oct;54(5):1598-605.

Long-term prognosis of chronic hepatitis C after treatment with interferon alpha 2b and characterization of incomplete responders. Hakozaki Y, et al. **Am J Gastroenterol** 1996 Oct;91(10):2144-9

Use of quantitative assays for hepatitis B e antigen and IgM antibody to hepatitis B core antigen to monitor therapy in chronic hepatitis B. Hayashi PH, et al. **Am J Gastroenterol** 1996 Nov;91(11):2323-8

Core promoter mutations of hepatitis B virus for the response to interferon in e antigen-positive chronic hepatitis B. Kanai K, et al. **Am J Gastroenterol** 1996 Oct;91(10):2150-6

Therapy in chronic hepatitis C: say goodbye to the 6-month interferon regimen [editorial] Koff RS. **Am J Gastroenterol** 1996 Oct;91(10):2072-4

Breakthrough of interferon therapy [letter; comment] Scalori A, et al. **Am J Gastroenterol** 1996 Oct;91(10):2249-50. Comment on: Am J Gastroenterol 1995 Jun;90(6):951-4.

Treatment of hepatitis B virus associated glomerulonephritis with recombinant human alpha interferon. Chung DR, et al. **Am J Nephrol** 1997;17(2):112-7

Natural human interferon alpha given orally has different effects on patients with distinct forms of chronic viral hepatitis B. Georgiades JA, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(2-3):187-94

Comparison of the long-term effects of treatment with oral and parenteral interferon alpha in chronic viral hepatitis patients. Zielińska W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5-6):359-66

Interferon therapy for chronic hepatitis C. Davis GL. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):289-98 (78 ref.)

New treatments for chronic viral hepatitis B and C. Dusheiko GM. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):299-333 (154 ref.)

Management of viral hepatitis: clinical and public health perspectives--a consensus statement. CASL Hepatitis Consensus Group. Canadian Association for Study of the Liver. Sherman M. **Can J Gastroenterol** 1997 Jul-Aug; 11(5):407-16 (58 ref.)

Interferon-alpha therapy for chronic hepatitis B in children: a meta-analysis. Torre D, et al. **Clin Infect Dis** 1996 Jul; 23(1):131-7

Prevention of hepatitis B recurrence with indefinite hepatitis B immune globulin (HBIG) prophylaxis after liver transplantation. Nymann T, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):663-7

Preliminary results of beta-interferon treatment in the elderly. Terranova R, et al. **Control Clin Trials** 1996 Apr; 17(2):123-9

Long-term efficacy of interferon-alpha and ursodeoxycholic acid in treatment of chronic type C hepatitis. Senturk H, et al. **Dig Dis Sci** 1997 Jul;42(7):1438-44

Granulomatous hepatitis in a patient with chronic hepatitis C treated with interferon-alpha. Veerabagu MP, et al. **Dig Dis Sci** 1997 Jul;42(7):1445-8

A long-term follow-up study of interferon treatment for chronic hepatitis C in Japanese patients with congenital bleeding disorders. Yamada M, et al. **Eur J Haematol** 1996 Aug;57(2):165-70

Pneumonitis during interferon and/or herbal drug therapy in patients with chronic active hepatitis. Ishizaki T, et al. **Eur Respir J** 1996 Dec;9(12):2691-6

Alpha-interferon for chronic active hepatitis B in human immunodeficiency virus-infected patients. Zylberberg H, et al. **Gastroenterol Clin Biol** 1996;20(11):968-71

Patients who do better do better. Koretz RL. **Gastroenterology** 1997 Apr;112(4):1418-20

Liver iron concentration and distribution in chronic hepatitis C before and after interferon treatment [see comments] Boucher E, et al. **Gut** 1997 Jul;41(1):115-20. Comment in: Gut 1997 Jul;41(1):127-8.

Adding interventions to interferon in chronic HCV infections [comment] Main J. **Gut** 1996 Nov;39(5):769. Comment on: Gut 1996 Nov;39(5):679-83.

Combination thymosin alpha 1 and lymphoblastoid interferon treatment in chronic hepatitis C [see comments] Rasi G, et al. **Gut** 1996 Nov;39(5):679-83. Comment in: Gut 1996 Nov;39(5):769.

Long-term low dose interferon alpha-2b in the treatment of chronic hepatitis B in multi-ethnic patients in Hawaii. Ching N, et al. **Hawaii Med J** 1996 Oct;55(10):201-3

Parameters predicting response to alpha-interferon treatment in chronic hepatitis C. Glück T, et al. **Hepatogastroenterology** 1997 Mar-Apr;44(14):484-91

Effects of low molecular weight glycoproteins in chronic hepatitis B. Vassilev M, et al. **Hepatogastroenterology** 1996 Jul-Aug;43(10):882-6

Meta-analysis of interferon randomized trials in the treatment of viral hepatitis C: effects of dose and duration. Poynard T, et al. **Hepatology** 1996 Oct;24(4):778-89

Treatment of chronic hepatitis C with interferon alfa-n3: a multicenter, randomized, open-label trial. Simon DM, et al. **Hepatology** 1997 Feb;25(2):445-8

Immunological effects following administration of interferon-alpha in patients with chronic hepatitis C virus (cHCV) infection. Jirillo E, et al. **Immunopharmacol Immunotoxicol** 1996 Aug;18(3):355-74

It is futile to use interferon in HCV-related chronic hepatitis with viremia levels above 3 x 10(6) eq/ml [letter] Morisco F, et al. **Infection** 1997 May-Jun;25(3):190-1

Recurrence of sarcoidosis following interferon alpha therapy for chronic hepatitis C. Nakajima M, et al. **Intern Med** 1996 May;35(5):376-9

Prolonged treatment of chronic C hepatitis by means of medium-high doses of recombinant alpha-2b interferon: an open study to evaluate response and long-term relapse. Benetti GP, et al. **Ital J Gastroenterol** 1996 Apr; 28(3):127-35

Long-term variations of serum laminin and procollagen III peptide in chronic HCV hepatitis after alpha-interferon therapy. Casaril M, et al. **Ital J Gastroenterol** 1996 Jan; 28(1):15-9

Resistance to alpha interferon therapy in HCV chronic liver disease: role of hepatic fibrosis. Di Costanzo GG, et al. **Ital J Gastroenterol** 1996 Apr;28(3):140-6

Pilot study of a short course of ribavirin and alpha interferon in the treatment of chronic active hepatitis C not responding to alpha-interferon alone. Scotto G, et al. **Ital J Gastroenterol** 1996 Dec;28(9):505-11

Oral erosive lichen planus with epidermolytic hyperkeratosis during interferon alfa-2b therapy for chronic hepatitis C virus infection. Schlesinger TE, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):1023-5

A randomized, double-blind, controlled trial of natural interferon-beta therapy for e-antigen-negative chronic hepatitis B patients with abnormal transaminase levels. Arase Y, et al. **J Gastroenterol** 1996 Aug;31(4):559-64

Mechanisms of thrombocytopenia induced by interferon therapy for chronic hepatitis B. Sata M, et al. **J Gastroenterol** 1997 Apr;32(2):206-10

Ischemic colitis during interferon-alpha treatment for chronic active hepatitis C. Tada H, et al. **J Gastroenterol** 1996 Aug;31(4):582-4

Case report: development of hepatocellular carcinoma in a patient with chronic hepatitis C infection after a complete and sustained response to interferon-alpha. Hirashima N, et al. **J Gastroenterol Hepatol** 1996 Oct;11(10):955-8

Interferon-alpha therapy for individuals with normal serum alanine aminotransferase levels before treatment. Orito E, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):58-61

Mapped auditory evoked potentials before and after interferon treatment. Malaguarnera M, et al. **J Interferon Cytokine Res** 1996 Jun;16(6):441-6

Cost-benefit analysis of interferon therapy in children with chronic active hepatitis B. Louis-Jacques O, et al. **J Pediatr Gastroenterol Nutr** 1997 Jan;24(1):25-32

Effect of r-interferon alpha administration on hypothalamus-pituitary-thyroid axis in chronic hepatitis.

Falaschi P, et al. **Life Sci** 1997;60(1):43–50

The treatment of chronic viral hepatitis. Hoofnagle JH, et al. **N Engl J Med** 1997 Jan 30;336(5):347–56 (106 ref.)

Protection from clinical varicella disease during interferon alpha-2a therapy for chronic active hepatitis B infection. Curtiss D, et al. **Pediatr Infect Dis J** 1997 Jul;16(7):720–2

Pilot interferon-beta trial in children with chronic hepatitis B who had previously not responded to interferon-alpha therapy. Ruiz-Moreno M, et al. **Pediatrics** 1997 Feb; 99(2):222–5

Response of chronic hepatitis C to interferon-alpha treatment and relationship with iron metabolism. Martín-Vivaldi R, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):523–30 **(Eng, Spa)**

Treatment of chronic hepatitis C with interferon-alpha. Clinical histological and virological implications. Olaso V, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):531–50 **(Eng, Spa)**

A comparison between two induction regimes for the interferon treatment of chronic hepatitis C. Response related factors. Pérez R, et al. **Rev Esp Enferm Dig** 1997 Mar;89(3):159–73 **(Eng, Spa)**

Factors influencing the response to interferon therapy in chronic hepatitis C. Studies on viral genotype and induction of 2',5'-oligoadenylate synthetase in the liver and peripheral blood cells. Grandér D, et al. **Scand J Gastroenterol** 1996 Jun;31(6):604–11

Delayed gastric emptying during interferon-alpha therapy in patients with chronic hepatitis C: relief by cisapride. Nishibayashi H, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):547–51

Induction of antinuclear antibody after interferon therapy in patients with type-C chronic hepatitis: its relation to the efficacy of therapy. Noda K, et al. **Scand J Gastroenterol** 1996 Jul;31(7):716–22

Clinico-pathological predictive factors of response to interferon therapy in chronic hepatitis C. Thavarungkul P, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar;27(1):85–90

Rapid growth of hepatocellular carcinoma after or during interferon treatment of chronic hepatitis C: report of three cases. Onitsuka A, et al. **Surg Today** 1996;26(2):126–30

[Attempted suicide during treatment of chronic viral hepatitis C with interferon. Apropos of 2 cases (letter)] Bourat L, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1063 **(Fre)**

[Factors of response to treatment with interferon-alpha in patients with chronic hepatitis C. Therapeutic perspectives] Marcellin P, et al. **Gastroenterol Clin Biol** 1995 Dec; 19(12):991–1000 (86 ref.) **(Fre)**

[Pathogenesis and alpha-2 interferon treatment of chronic hepatitis B] Pirotte J. **Rev Med Liege** 1996 Aug; 51(8):514–21 (38 ref.) **(Fre)**

[Outcomes research in therapy of chronic hepatitis C] Niederau C, et al. **Internist (Berl)** 1996 Dec;37(12):1225–36 (40 ref.) **(Ger)**

[Long-term follow-up of HBeAg-positive patients after interferon-alpha treatment for chronic hepatitis B] Goeser T. **Z Gastroenterol** 1997 Mar;35(3):233–5 **(Ger)**

[The influence of anti-interferon-alpha 2a antibodies in initial daily four-week interferon-alpha 2a therapy for chronic hepatitis C] Habu D, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):319–27 (Eng. Abstr.) **(Jpn)**

[Recombinant interferon alfa in the treatment of chronic hepatitis C] Coelho HS, et al. **Rev Assoc Med Bras** 1995 Sep-Oct;41(5):313–7 (Eng. Abstr.) **(Por)**

[The interferon therapy of patients with chronic viral hepatitis: the factors affecting the treatment results] Kokoreva LN, et al. **Ter Arkh** 1996;68(2):10–4 (Eng. Abstr.) **(Rus)**

[Predictive factors of response to interferon-alpha treatment in chronic hepatitis C (editorial)] Buti M, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):501–2 **(Spa)**

[Thyroid dysfunction in patients with chronic hepatitis C pre and post treatment with interferon] Martín-Vivaldi R, et al. **Rev Esp Enferm Dig** 1996 Jul;88(7):480–4 (Eng. Abstr.) **(Spa)**

[Treatment with interferon alfa-2b in patients with chronic hepatitis caused by hepatitis C virus: predictive factors for the response, relapse and early development to cirrhosis after treatment] Pérez Roldán F, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):609–15 (23 ref.) (Eng. Abstr.) **(Spa)**

[Famciclovir plus interferon in the treatment of a patient with chronic hepatitis B and severe liver failure] Piqueras B, et al. **Rev Esp Enferm Dig** 1997 Mar;89(3):217–21 (Eng. Abstr.) **(Spa)**

[Chronic active autoimmune hepatitis: review of the current treatment] Garassini S MA. **Rev Gastroenterol Mex** 1995 Oct-Dec;60(4 Suppl 2):S65–7 **(Spa)**

VETERINARY

The relationship between hepatic copper content and morphologic changes in the liver of West Highland White Terriers. Thornburg LP, et al. **Vet Pathol** 1996 Nov; 33(6):656–61

VIROLOGY

Immunohistochemical detection and significance of hepatitis C virus antigen. Zhao X, et al. **Chin Med J (Engl)** 1996 Jun;109(6):486–8

cDNA sequencing of the 5' noncoding region (5' NCR) to determine hepatitis C genotypes in patients with chronic hepatitis C. O'Brien CB, et al. **Dig Dis Sci** 1997 May; 42(5):1087–93

Viral replication in patients with concomitant hepatitis B and C virus infections. Crespo J, et al. **Eur J Clin Microbiol Infect Dis** 1997 Jun;16(6):445–51

HCV transmission in family members of subjects with HCV related chronic liver disease. Demelia L, et al. **Eur J Epidemiol** 1996 Feb;12(1):45–50

Pretreatment virus load and multiple amino acid substitutions in the interferon sensitivity-determining region predict the outcome of interferon treatment in patients with chronic genotype 1b hepatitis C virus infection [see comments] Chayama K, et al. **Hepatology** 1997 Mar;25(3):745–9. Comment in: Hepatology 1997 Mar;25(3):769–71.

Hepatitis C viral quasispecies and liver damage in patients with chronic hepatitis C virus infection. Hayashi J, et al. **Hepatology** 1997 Mar;25(3):697–701

Analysis of histopathological manifestations of chronic hepatitis C virus infection with respect to virus genotype. Mihm S, et al. **Hepatology** 1997 Mar;25(3):735–9

The predominance of hepatitis delta virus genotype I among chronically infected Italian patients. Niro GA, et al. **Hepatology** 1997 Mar;25(3):728–34

Relation of disease activity during chronic hepatitis C infection to complexity of hypervariable region 1 quasispecies. Yuki N, et al. **Hepatology** 1997 Feb; 25(2):439–44

Chronic hepatitis infected with hepatitis GB virus type C/hepatitis G virus presenting as non-alcoholic steatohepatitis [see comments] Saito H, et al. **Intern Med** 1997 Apr;36(4):283–8. Comment in: Intern Med 1997 Apr;36(4):236–7.

Sequence analysis of hepatitis C virus genotypes 1 to 5 reveals multiple novel subtypes in the Benelux countries. van Doorn LJ, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1871–6

Serotyping and genotyping of hepatitis C virus (HCV) strains in chronic HCV infection. Commission Hepatologie du CREGG. Club de Reflexion des Cabinets de Groupes en GastroEnterologie. Halfon P, et al. **J Med Virol** 1997 Aug; 52(4):391–5

Gradual accumulation of mutations in precore core region of HBV in patients with chronic active hepatitis: implications of clustering changes in a small region of the HBV core region. Hur GM, et al. **J Med Virol** 1996 Jan; 48(1):38–46

Chronic hepatitis A with persistent viral replication. Inoue K, et al. **J Med Virol** 1996 Dec;50(4):322–4

Comparison of HCV RNA assays for the detection and quantification of hepatitis C virus RNA levels in serum of patients with chronic hepatitis C treated with interferon. Trabaud MA, et al. **J Med Virol** 1997 May;52(1):105–12

Distribution of hepatitis C virus RNA in the liver and its relation to histopathological changes. Kojima S, et al. **Liver** 1996 Feb;16(1):55–60

Hepatitis G virus/GB virus C in Brazil. Preliminary report. Pinho JR, et al. **Rev Inst Med Trop Sao Paulo** 1996 May-Jun;38(3):243–6

Detection of antibodies to hepatitis E virus in patients with autoimmune chronic active hepatitis and primary biliary cirrhosis. Le Cann P, et al. **Scand J Gastroenterol** 1997 Apr;32(4):387–9

GB virus C/hepatitis G virus infection among Japanese patients with chronic liver diseases and blood donors. Orito E, et al. **Virus Res** 1996 Dec;46(1-2):89–93

[Hepatitis B virus mutants--clinical significance] Blum HE, et al. **Z Gastroenterol** 1997 May;35(5):347–55 (79 ref.) (Eng. Abstr.) **(Ger)**

[Optimal antiviral therapy of chronic hepatitis caused by hepatitis C virus] Cooreman MP, et al. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1476–82 (51 ref.) (Eng. Abstr.) **(Hun)**

[Chronic hepatitis C: virologic and immunologic aspects and questions of therapy] Pár A. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1465–76 (90 ref.) (Eng. Abstr.) **(Hun)**

[Prevalence of the genotypes of the hepatitis C virus in Spanish drug addicts with chronic hepatitis C. Spanish Group for the Study of Viral Hepatitis in HIV Positive Patients] Bravo R, et al. **Rev Clin Esp** 1996 Oct; 196(10):673–7 (Eng. Abstr.) **(Spa)**

[Spontaneous disappearance of viremia in hemophiliacs with chronic hepatitis C (letter)] Aguilar C, et al. **Sangre (Barc)** 1996 Apr;41(2):159–60 **(Spa)**

HEPATITIS D see **DELTA INFECTION**

HEPATITIS D VIRUS see **DELTA AGENT**

HEPATITIS, DELTA see **DELTA INFECTION**

HEPATITIS DELTA VIRUS see **DELTA AGENT**

HEPATITIS E

Hepatitis E. Mast EE, et al. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):227–42 (103 ref.)

[Viral hepatitis E] Molinié C, et al. **Med Trop (Mars)** 1996; 56(3):285–8 (15 ref.) (Eng. Abstr.) **(Fre)**

[Severe acute cholestatic viral hepatitis E in a non-pregnant woman] Schröder O, et al. **Dtsch Med Wochenschr** 1997 Jan 3;122(1-2):21–4 (Eng. Abstr.) **(Ger)**

[Contribution to the study of viral hepatitis E and G] Piédrola Angulo G. **An R Acad Nac Med (Madr)** 1996;113(3):629–42 (22 ref.) **(Spa)**

[A case of acute hepatitis E in Seville (letter)] Romero Gómez M, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):217–8 **(Spa)**

BLOOD

[Hepatitis E: clinical course and serology] Garassini MA. **Rev Gastroenterol Mex** 1995 Oct-Dec;60(4 Suppl 2):S27–9 **(Spa)**

COMPLICATIONS

Hepatitis E virus and Salmonella paratyphi A coinfection. Phadke AY, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):115–6

Fulminant hepatic failure in pregnant women: acute fatty liver or acute viral hepatitis? Hamid SS, et al. **J Hepatol** 1996 Jul;25(1):20–7

Antibody to hepatitis E virus in HIV-infected individuals and AIDS patients. Balayan MS, et al. **J Viral Hepat** 1997 Jul;4(4):279–83

Hepatitis-E-associated fulminant hepatic failure in non-pregnant young women [letter; comment] Zijlstra JG, et al. **Lancet** 1997 Jul 26;350(9073):289–90. Comment on: Lancet 1997 Apr 12;349(9058):1081–5.

Non-oliguric acute renal failure associated with hepatitis E. Verschuuren EA, et al. **Nephrol Dial Transplant** 1997 Apr; 12(4):799–801

[Acute fulminating hepatitis non-A non-B in pregnancy: a clinical case of probable sporadic hepatitis caused by E virus] Reyes H B, et al. **Rev Chil Obstet Ginecol** 1995; 60(3):199–204 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Short report: further evidence for hepatitis E in the Brazilian Amazon. Souto FJ, et al. **Am J Trop Med Hyg** 1997 Aug; 57(2):149–50

Hepatitis E virus: molecular biology and diagnosis. Mushahwar IK, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):312–8 (22 ref.)

A new PCR-based seroneutralization assay in cell culture for diagnosis of hepatitis E. Meng J, et al. **J Clin Microbiol** 1997 Jun;35(6):1373–7

An institutional outbreak of hepatitis E--reported first time from Calcutta city. Neogi DK, et al. **J Commun Dis** 1995 Dec;27(4):229–33

HEV exposure rate among clinically suspected cases of hepatitis infections [letter] abdul Mujeeb S, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):165

Hepatitis E virus infection in an immigrant to the United States. Smalley DL, et al. **South Med J** 1996 Oct; 89(10):994–6

Possible aetiological role of hepatitis E virus in acute non-A, non-B, non-C hepatitis in Saudi Arabia. Arif M, et al. **Trans R Soc Trop Med Hyg** 1996 Nov-Dec;90(6):645–6

[Autochthonous viral hepatitis E in Languedoc-Roussillon (letter)] Corne P, et al. **Presse Med** 1997 Feb 15;26(4):166 **(Fre)**

[A case of acute hepatitis E] Ban K, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Jun;94(6):434–9 **(Jpn)**

[Hepatitis E: clinical course and serology] Garassini MA. **Rev Gastroenterol Mex** 1995 Oct-Dec;60(4 Suppl 2):S27–9 **(Spa)**

EPIDEMIOLOGY

Seroprevalence of hepatitis E virus in an adult urban population from Burundi. Aubry P, et al. **Am J Trop Med Hyg** 1997 Sep;57(3):272–3

Epidemic and sporadic hepatitis E virus transmission in West Kalimantan (Borneo), Indonesia. Corwin A, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):62–5

High seroprevalence of hepatitis A, B, C, and E virus in an Egyptian village in the Nile Delta [letter] Miller FD. **Am J Trop Med Hyg** 1997 Sep;57(3):251

Prevalence of hepatitis E virus IgG antibodies in patients from a referral unit of liver diseases in Salvador, Bahia, Brazil. Parana R, et al. **Am J Trop Med Hyg** 1997 Jul; 57(1):60–1

Water-borne hepatitis E virus epidemic in Islamabad, Pakistan: a common source outbreak traced to the malfunction of a modern water treatment plant. Rab MA, et al. **Am J Trop Med Hyg** 1997 Aug;57(2):151–7

Enterically transmitted hepatitis in Saudi Arabia: an epidemiological study. Arif M. **Ann Trop Med Parasitol** 1996 Apr;90(2):197–201

Prevalence of hepatitis E virus infection in Thailand. Poovorawan Y, et al. **Ann Trop Med Parasitol** 1996 Apr; 90(2):189–96

Sporadic acute hepatitis caused by hepatitis E virus in Egyptian adults. Gomatos PJ, et al. **Clin Infect Dis** 1996 Jul;23(1):195–6

Prevalence of antibodies against enterically transmitted viral hepatitis (HAV and HEV) among adolescents in an inland territory of central Italy. Ripabelli G, et al. **Eur J Epidemiol** 1997 Jan;13(1):45–7

Etiology of sporadic acute and fulminant non-A, non-B viral hepatitis in north India. Kar P, et al. **Indian J Gastroenterol** 1997 Apr;16(2):43–5

Prevalence of hepatitis E in a central Italian town at high

endemicity for hepatitis C virus. Stroffolini T, et al. **Ital J Gastroenterol** 1996 Dec;28(9):523–5

Acute viral hepatitis E: clinical and serologic studies in Singapore. Chow WC, et al. **J Clin Gastroenterol** 1997 Jun; 24(4):235–8

An outbreak of viral hepatitis in Jodhpur city of Rajasthan. Gupta RS, et al. **J Commun Dis** 1995 Sep;27(3):175–80

An institutional outbreak of hepatitis E—reported first time from Calcutta city. Neogi DK, et al. **J Commun Dis** 1995 Dec;27(4):229–33

Evidence in favour of high infection rate with hepatitis E virus among young children in India [letter] Aggarwal R, et al. **J Hepatol** 1997 Jun;26(6):1425–6

Incidence of non-A, non-B and HCV positive hepatitis in healthcare workers in Italy. Stroffolini T, et al. **J Hosp Infect** 1996 Jun;33(2):131–7

Rates of hepatitis E virus infection and disease among adolescents and adults in Kathmandu, Nepal. Clayson ET, et al. **J Infect Dis** 1997 Sep;176(3):763–6

Acute sporadic hepatitis in the Republic of Yemen. Gunaid AA, et al. **J Med Virol** 1997 Jan;51(1):64–6

Epidemiology of hepatitis E virus infection. Balayan MS. **J Viral Hepat** 1997 May;4(3):155–65 (94 ref.)

Hepatitis E virus infection in patients from Saudi Arabia with sickle cell anaemia and beta-thalassemia major: possible transmission by blood transfusion. al-Fawaz I, et al. **J Viral Hepat** 1996 Jul;3(4):203–5

Hepatitis E virus infection in north-east Italy: serological study in the open population and groups at risk. Gessoni G, et al. **J Viral Hepat** 1996 Jul;3(4):197–202

Hepatitis E virus infection in haemodialysis patients: a seroepidemiological survey. Fabrizi F, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):133–6

Hepatitis E virus (HEV) infection in haemodialysis patients. The Multicentre Haemodialysis Cohort Study on Viral Hepatitis. Psichogiou M, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1093–5

Hepatitis E seroprevalence in dialysis in southern Reunion Island [letter] Guiserix J, et al. **Nephron** 1996;74(1):230

Seroepidemiological study of an acute hepatitis E outbreak in Morocco. Benjelloun S, et al. **Res Virol** 1997 Jul-Aug; 148(4):279–87

Hepatitis E virus infection in individuals at high risk of transmission of non-A, non-B hepatitis and sexually transmitted diseases. Psichogiou M, et al. **Scand J Infect Dis** 1996;28(5):443–5

Hepatitis E in Singapore—a seroprevalence study. Chow WC, et al. **Singapore Med J** 1996 Dec;37(6):579–81

Tropical aspects of viral hepatitis. Hepatitis E. Skidmore SJ. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr;91(2):125–6 (9 ref.)

Emerging viral pathogens in long-term expatriates (I): Hepatitis E virus. Jänisch T, et al. **Trop Med Int Health** 1997 Sep;2(9):885–91

[Hepatitis E virus infection. Hepatitis outbreaks] Erlinger S. **Presse Med** 1997 Mar 22;26(9):422–3 (Eng. Abstr.) **(Fre)**

[Hepatitis E in a nonendemic region: antibodies to hepatitis E virus in various groups of residents] Fedorova OE, et al. **Vopr Virusol** 1996 May-Jun;41(3):104–7 (Eng. Abstr.) **(Rus)**

[Hepatitis E] Favorov MO, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 Jul-Aug;(4):90–5 (50 ref.) **(Rus)**

[Epidemiological study of hepatitis A and E viruses in different populations in Uruguay] Cruells MR, et al. **Gastroenterol Hepatol** 1997 Jun-Jul;20(6):295–8 (Eng. Abstr.) **(Spa)**

[Acute hepatitis E in Spain (letter; comment)] Buti M. **Med Clin (Barc)** 1996 Sep 21;107(9):356. Comment on: Med Clin (Barc) 1995 Nov 25;105(18):716. **(Spa)**

[Seroepidemiology of hepatitis E in the State of Hidalgo] Bernal Reyes R, et al. **Rev Gastroenterol Mex** 1996 Jul-Sep; 61(3):233–8 (Eng. Abstr.) **(Spa)**

[Hepatitis E virus infection in Chile: preliminary report] Brahm J, et al. **Rev Med Chil** 1996 Aug;124(8):947–9 (Eng. Abstr.) **(Spa)**

HISTORY

[From non-A non-B hepatitis to hepatitis C] Couroucé AM. **Transfus Clin Biol** 1997;4(3):287–90 (32 ref.) (Eng. Abstr.) **(Fre)**

IMMUNOLOGY

Acute sporadic non-A, non-B, non-C, non-D, non-D, non-E hepatitis. Rochling FA, et al. **Hepatology** 1997 Feb; 25(2):478–83

Consecutive evaluation of immunoglobulin M and G antibodies against hepatitis E virus. Ke WM, et al. **J Gastroenterol** 1996 Dec;31(6):818–22

Amino-terminal epitopes are exposed when full-length open reading frame 2 of hepatitis E virus is expressed in Escherichia coli, but carboxy-terminal epitopes are masked. Li F, et al. **J Med Virol** 1997 Jul;52(3):289–300

Hepatitis E in South Africa: evidence for sporadic spread and increased seroprevalence in rural areas. Tucker TJ, et al. **J Med Virol** 1996 Oct;50(2):117–9

HEV exposure rate among clinically suspected cases of hepatitis infections [letter] abdul Mujeeb S, et al. **JPMA J Pak Med Assoc** 1996 Jul;46(7):165

Detection of antibodies to hepatitis E virus in patients with autoimmune chronic active hepatitis and primary biliary cirrhosis. Le Cann P, et al. **Scand J Gastroenterol** 1997 Apr;32(4):387–9

Short-term IgM and IgG antibody responses to hepatitis E virus infection. Koshy A, et al. **Scand J Infect Dis** 1996; 28(5):439–41

[Analysis of the organization of immunodominant epitopes of hepatitis virus E orf2 and orf3 proteins using synthetic peptides] Dement'eva EV, et al. **Vopr Virusol** 1997 May-Jun;42(3):102–5 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

A preliminary study on immune response to hepatitis E virus DNA vaccine in mice. Lu F, et al. **Chin Med J (Engl)** 1996 Dec;109(12):919–21

[Medical and economic evaluation of donated blood screening for hepatitis C and non-A, non-B, non-C hepatitis] Vergnon P, et al. **Rev Epidemiol Sante Publique** 1996 Jan;44(1):66–79 (Eng. Abstr.) **(Fre)**

[Prevalence of antibodies against hepatitis A, B, C and E viruses in the rural child population in Northern Extremadura] Montes Martínez I, et al. **An Esp Pediatr** 1996 Aug;45(2):133–6 (Eng. Abstr.) **(Spa)**

TRANSMISSION

Epidemic and sporadic hepatitis E virus transmission in West Kalimantan (Borneo), Indonesia. Corwin A, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):62–5

Hepatitis E virus infection in patients from Saudi Arabia with sickle cell anaemia and beta-thalassemia major: possible transmission by blood transfusion. al-Fawaz I, et al. **J Viral Hepat** 1996 Jul;3(4):203–5

Tropical aspects of viral hepatitis. Hepatitis E. Skidmore SJ. **Trans R Soc Trop Med Hyg** 1997 Mar-Apr;91(2):125–6 (9 ref.)

VIROLOGY

Acute sporadic non-A, non-B, non-C, non-D, non-D, non-E hepatitis. Rochling FA, et al. **Hepatology** 1997 Feb; 25(2):478–83

Viral hepatitis in older adults. Marcus EL, et al. **J Am Geriatr Soc** 1997 Jun;45(6):755–63 (108 ref.)

Seroreactivity to hepatitis E virus in areas where the disease is not endemic. Thomas DL, et al. **J Clin Microbiol** 1997 May;35(5):1244–7

Non Hepatitis viruses in causation of acute sporadic non-A, non-B viral hepatitis. Prakash C, et al. **J Commun Dis** 1996 Sep;28(3):185–8

A community prevalence study of antibodies to hepatitis A and E in inner-city London. Bernal W, et al. **J Med Virol** 1996 Jul;49(3):230–4

IgM and IgG antibodies to hepatitis E virus (HEV) detected by an enzyme immunoassay based on an HEV-specific artificial recombinant mosaic protein. Favorov MO, et al. **J Med Virol** 1996 Sep;50(1):50–8

Hepatitis E virus seroprevalence in acute viral hepatitis in a developed country confirmed by a supplemental assay. Quiroga JA, et al. **J Med Virol** 1996 Sep;50(1):16–9

Detection of HEV RNA in faeces, by RT-PCR during the epidemics of hepatitis E in India (1976–1995). Chobe LP, et al. **J Viral Hepat** 1997 Mar;4(2):129–33

Severe hepatitis E infection during pregnancy. Hussaini SH, et al. **J Viral Hepat** 1997 Jan;4(1):51–4

Hepatitis E infection in the UK. Skidmore SJ, et al. **J Viral Hepat** 1996 Mar;3(2):103–5

[Characteristics of the hepatitis E virus] Velázquez Monroy O, et al. **Rev Gastroenterol Mex** 1995 Oct-Dec;60(4 Suppl 2):S24–6 **(Spa)**

HEPATITIS E VIRUS

Hepatitis E. Mast EE, et al. **Baillieres Clin Gastroenterol** 1996 Jul;10(2):227–42 (103 ref.)

Hepatitis E virus and Salmonella paratyphi A coinfection. Phadke AY, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):115–6

Hepatitis E virus and primary biliary cirrhosis [letter] Wang CH, et al. **QJM** 1997 Feb;90(2):154–5

[Viral hepatitis E] Molinié C, et al. **Med Trop (Mars)** 1996; 56(3):285–8 (15 ref.) (Eng. Abstr.) **(Fre)**

[New hepatitis viruses] Gerok W. **Schweiz Rundsch Med Prax** 1997 Jul 16;86(29–30):1160–2 (9 ref.) (Eng. Abstr.) **(Ger)**

[Characteristics of the hepatitis E virus] Velázquez Monroy O, et al. **Rev Gastroenterol Mex** 1995 Oct-Dec;60(4 Suppl 2):S24–6 **(Spa)**

CHEMISTRY

Expression, characterization, and immunoreactivities of a soluble hepatitis E virus putative capsid protein species expressed in insect cells. Zhang Y, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):423–8

Purification and characterization of a recombinant hepatitis E protein vaccine candidate by liquid chromatography-mass spectrometry. McAtee CP, et al. **J Chromatogr B Biomed Appl** 1996 Oct 11;685(1):91–104

GENETICS

Molecular characterization of hepatitis C and E viruses. Bradley DW, et al. **Arch Virol Suppl** 1993;7:1–14 (42 ref.)

Hepatitis E virus: molecular biology and diagnosis. Mushahwar IK, et al. **Eur J Gastroenterol Hepatol** 1996 Apr;8(4):312–8 (22 ref.)

Expression and characterization of the hepatitis E virus ORF3 protein in the methylotrophic yeast, Pichia pastoris. Lal SK, et al. **Gene** 1997 Apr 29;190(1):63–7

Detection of hepatitis E virus RNA in stools and serum by reverse transcription-PCR. Turkoglu S, et al. **J Clin Microbiol** 1996 Jun;34(6):1568–71

Experimental infection of the laboratory rat with the hepatitis E virus. Maneerat Y, et al. **J Med Virol** 1996 Feb; 48(2):121–8

Purification of a soluble hepatitis E open reading frame 2-derived protein with unique antigenic properties. McAtee CP, et al. **Protein Expr Purif** 1996 Sep;8(2):262–70

[Analysis of the organization of immunodominant epitopes of hepatitis virus E orf2 and orf3 proteins using synthetic peptides] Dement'eva EV, et al. **Vopr Virusol** 1997 May-Jun;42(3):102–5 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Epidemic and sporadic hepatitis E virus transmission in West Kalimantan (Borneo), Indonesia. Corwin A, et al. **Am J Trop Med Hyg** 1997 Jul;57(1):62–5

Prevalence of hepatitis E virus IgG antibodies in patients from a referral unit of liver diseases in Salvador, Bahia, Brazil. Parana R, et al. **Am J Trop Med Hyg** 1997 Jul; 57(1):60–1

Expression, characterization, and immunoreactivities of a soluble hepatitis E virus putative capsid protein species expressed in insect cells. Zhang Y, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):423–8

Acute sporadic non-A, non-B, non-C, non-D, non-D, non-E hepatitis. Rochling FA, et al. **Hepatology** 1997 Feb; 25(2):478–83

Prevalence of hepatitis E in a central Italian town at high endemicity for hepatitis C virus. Stroffolini T, et al. **Ital J Gastroenterol** 1996 Dec;28(9):523–5

A new PCR-based seroneutralization assay in cell culture for diagnosis of hepatitis E. Meng J, et al. **J Clin Microbiol** 1997 Jun;35(6):1373–7

Consecutive evaluation of immunoglobulin M and G antibodies against hepatitis E virus. Ke WM, et al. **J Gastroenterol** 1996 Dec;31(6):818–22

A high hepatitis E virus seroprevalence among renal transplantation and haemophilia patient populations [letter] Buffet C, et al. **J Hepatol** 1996 Jan;24(1):122–5

Prevalence of and risk factors for antibody to hepatitis E virus seroreactivity among blood donors in Northern California. Mast EE, et al. **J Infect Dis** 1997 Jul; 176(1):34–40

Experimental infection of the laboratory rat with the hepatitis E virus. Maneerat Y, et al. **J Med Virol** 1996 Feb; 48(2):121–8

Prevalence of antibodies to hepatitis A, C, and E viruses in different ethnic groups in French Guiana. Talarmin A, et al. **J Med Virol** 1997 Aug;52(4):430–5

Hepatitis E in South Africa: evidence for sporadic spread and increased seroprevalence in rural areas. Tucker TJ, et al. **J Med Virol** 1996 Oct;50(2):117–9

Antibody to hepatitis E virus in HIV-infected individuals and AIDS patients. Balayan MS, et al. **J Viral Hepat** 1997 Jul;4(4):279–83

Hepatitis E virus infection in north-east Italy: serological study in the open population and groups at risk. Gessoni G, et al. **J Viral Hepat** 1996 Jul;3(4):197–202

Seroprevalence of hepatitis E in hemodialysis patients in Turkey [letter] Cengiz K, et al. **Nephron** 1996;74(4):730

High prevalence of hepatitis E virus antibodies in Spanish hemodialysis patients [letter] Mateos ML, et al. **Nephron** 1997;76(2):231–2

Seroepidemiological study of an acute hepatitis E outbreak in Morocco. Benjelloun S, et al. **Res Virol** 1997 Jul-Aug; 148(4):279–87

Detection of antibodies to hepatitis E virus in patients with autoimmune chronic active hepatitis and primary biliary cirrhosis. Le Cann P, et al. **Scand J Gastroenterol** 1997 Apr;32(4):387–9

Short-term IgM and IgG antibody responses to hepatitis E virus infection. Koshy A, et al. **Scand J Infect Dis** 1996; 28(5):439–41

DNA inoculation with a plasmid vector carrying the hepatitis E virus structural protein gene induces immune response in mice. He J, et al. **Vaccine** 1997 Mar;15(4):357–62

[Initial results of monitoring hepatitis E virus antibodies in selected population groups in the West Bohemia Region. Preliminary report] Pazdiora P, et al. **Epidemiol Mikrobiol Imunol** 1996 Sep;45(3):117–8 (Eng. Abstr.) **(Cze)**

[Prevalence of serum anti-hepatitis E virus antibodies in patients with human immunodeficiency virus infection (letter)] Tran A, et al. **Gastroenterol Clin Biol** 1997; 21(5):440 **(Fre)**

[The seroprevalence for hepatitis E viral antibodies in the northern region of Portugal (among the donor population)] Queirós L, et al. **Acta Med Port** 1997 Jun-Jul; 10(6-7):447-53 (Eng. Abstr.) **(Por)**

[Hepatitis E in a nonendemic region: antibodies to hepatitis E virus in various groups of residents] Fedorova OE, et al. **Vopr Virusol** 1996 May-Jun;41(3):104-7 (Eng. Abstr.) **(Rus)**

HEPATITIS E VIRUS

ISOLATION & PURIFICATION

Acute viral hepatitis E: clinical and serologic studies in Singapore. Chow WC, et al. **J Clin Gastroenterol** 1997 Jun; 24(4):235–8

Seroreactivity to hepatitis E virus in areas where the disease is not endemic. Thomas DL, et al. **J Clin Microbiol** 1997 May;35(5):1244–7

Detection of hepatitis E virus RNA in stools and serum by reverse transcription–PCR. Turkoglu S, et al. **J Clin Microbiol** 1996 Jun;34(6):1568–71

A community prevalence study of antibodies to hepatitis A and E in inner–city London. Bernal W, et al. **J Med Virol** 1996 Jul;49(3):230–4

IgM and IgG antibodies to hepatitis E virus (HEV) detected by an enzyme immunoassay based on an HEV–specific artificial recombinant mosaic protein. Favorov MO, et al. **J Med Virol** 1996 Sep;50(1):50–8

Hepatitis E virus seroprevalence in acute viral hepatitis in a developed country confirmed by a supplemental assay. Quiroga JA, et al. **J Med Virol** 1996 Sep;50(1):16–9

Detection of HEV RNA in faeces, by RT–PCR during the epidemics of hepatitis E in India (1976–1995). Chobe LP, et al. **J Viral Hepat** 1997 Mar;4(2):129–33

Hepatitis E infection in the UK. Skidmore SJ, et al. **J Viral Hepat** 1996 Mar;3(2):103–5

A novel virus in swine is closely related to the human hepatitis E virus. Meng XJ, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9860–5

Possible aetiological role of hepatitis E virus in acute non–A, non–B, non–C hepatitis in Saudi Arabia. Arif M, et al. **Trans R Soc Trop Med Hyg** 1996 Nov–Dec;90(6):645–6

Hepatitis E virus in haemodialysis [letter] Wang CH, et al. **Vox Sang** 1997;73(1):54–5

PHYSIOLOGY

Molecular organization and replication of hepatitis E virus (HEV). Reyes GR, et al. **Arch Virol Suppl** 1993;7:15–25 (35 ref.)

Expression and self–assembly of empty virus–like particles of hepatitis E virus. Li TC, et al. **J Virol** 1997 Oct; 71(10):7207–13

[Study of hepatitis E virus replication in FRhK–4 cell culture] Dzagurov GK, et al. **Vopr Virusol** 1997 Mar–Apr; 42(2):63–6 (Eng. Abstr.) **(Rus)**

HEPATITIS G VIRUS see **HEPATITIS AGENTS, GB**

HEPATITIS, INFECTIOUS see **HEPATITIS A**

HEPATITIS, INFECTIOUS CANINE

DIAGNOSIS

Infectious canine hepatitis: detection of canine adenovirus type 1 by polymerase chain reaction. Kiss I, et al. **Acta Vet Hung** 1996;44(2):253–8

PATHOLOGY

Focal mesangial–sclerosing glomerulonephritis and acute–spontaneous infectious canine hepatitis: structural, immunohistochemical and subcellular studies. Hervás J, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1–2):25–32

Hepatitis in a European brown bear with canine infectious hepatitis–like lesions. Kritsepi M, et al. **Vet Rec** 1996 Dec 14;139(24):600–1

PREVENTION & CONTROL

Canine parvovirus infection, canine distemper and infectious canine hepatitis: inclination to vaccinate and antibody response in the Swedish dog population. Olson P, et al. **Acta Vet Scand** 1996;37(4):433–43

VIROLOGY

Focal mesangial–sclerosing glomerulonephritis and acute–spontaneous infectious canine hepatitis: structural, immunohistochemical and subcellular studies. Hervás J, et al. **Vet Immunol Immunopathol** 1997 Jun;57(1–2):25–32

HEPATITIS, TOXIC

Severe hepatitis and liver failure induced by cyproterone acetate [letter] Murphy BJ, et al. **Aust N Z J Med** 1996 Oct;26(5):724

Adverse hepatic events associated with drug therapy [letter] Hewitt J, et al. **Med J Aust** 1996 Sep 16;165(6):347, 350

Aflatoxin and liver injury. Bhat RV. **Trop Gastroenterol** 1996 Jul–Sep;17(3):153–60 (75 ref.)

[Studies on the role of nitric oxide and tumor necrosis factor in immunological liver injury in mice and effects of new anti–hepatitis compounds on the liver injury] Wang GS. **Sheng Li Ko Hsueh Chin Chan** 1996 Jan;27(1):47–9 (Eng. Abstr.) **(Chi)**

BLOOD

The effect of ethanol or hepatotoxin exposure on rat transferrin desialylation. Löf K, et al. **Alcohol Alcohol** 1996 Sep;31(5):445–51

Hematologic manifestations and impaired liver synthetic function during valproate monotherapy. Hauser E, et al. **Brain Dev** 1996 Mar–Apr;18(2):105–9

[Dynamic blood viscosity and liver microcirculation in alloxan diabetes associated with toxic hepatitis] Karimov KhIa, et al. **Biull Eksp Biol Med** 1996 Jul;122(7):20–2 **(Rus)**

COMPLICATIONS

Hepatotoxicity of antitubercular treatments. Rationale for monitoring liver status. Durand F, et al. **Drug Saf** 1996 Dec;15(6):394–405 (62 ref.)

Vanishing bile duct syndrome in drug–induced liver disease. Desmet VJ. **J Hepatol** 1997;26 Suppl 1:31–5 (50 ref.)

[Drug–induced hepatic dysfunction and jaundice] Onji M. **Nippon Naika Gakkai Zasshi** 1997 Apr 10;86(4):557–64 (16 ref.) **(Jpn)**

DIAGNOSIS

Development and validation of a clinical scale for the diagnosis of drug–induced hepatitis. Maria VA, et al. **Hepatology** 1997 Sep;26(3):664–9

Liver tests in hyperthyroidism: effect of antithyroid therapy. Gürlek A, et al. **J Clin Gastroenterol** 1997 Apr;24(3):180–3

Experimental hepatic dysfunction: evaluation by MRI with Gd–EOB–DTPA. Kim T, et al. **J Magn Reson Imaging** 1997 Jul–Aug;7(4):683–8

DRUG THERAPY

Flutamide–induced toxic hepatitis. Potential utility of ursodeoxycholic acid administration in toxic hepatitis. Cicognani C, et al. **Dig Dis Sci** 1996 Nov;41(11):2219–21

Efficacy of a selective histamine H2 receptor agonist, dimaprit, in experimental models of endotoxin shock and hepatitis in mice. Nakamura T, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):83–9

Evaluation of four prescriptions of traditional Chinese medicine: syh–mo–yiin, guizhi–fuling–wan, shieh–qing–wan and syh–nih–sann on experimental acute liver damage in rats. Tsai CC, et al. **J Ethnopharmacol** 1997 Feb;55(3):213–22

Enhancement in vivo of the antiinflammatory and antitumor activities of type I interferon by association with the synthetic immunomodulator murabutide. Bahr GM, et al. **J Interferon Cytokine Res** 1996 Apr;16(4):297–306

New antihepatotoxic cerebroside from Lycium chinense fruits. Kim SY, et al. **J Nat Prod** 1997 Mar;60(3):274–6

Liver injury model induced in mice by a cellular immunologic mechanism—study for use in immunopharmacological evaluations. Xu Q, et al. **Pharmacol Res** 1997 Apr;35(4):273–8

[Bioactive constituents of Chinese natural medicines. III. Absolute stereostructures of new dihydroflavonols, hovenitins I, II, and III, isolated from hoveniae semen seu fructus, the seed and fruit of Hovenia dulcis THUNB. (Rhamnaceae): inhibitory effect on alcohol–induced muscular relaxation and hepatoprotective activity] Yoshikawa M, et al. **Yakugaku Zasshi** 1997 Feb; 117(2):108–18 (Eng. Abstr.) **(Jpn)**

[Immunomodulating and hepatoprotective action of retinoids in toxic liver involvement induced by D–galactosamine] Konoplia EN, et al. **Antibiot Khimioter** 1996;41(7–8):22–5 (Eng. Abstr.) **(Rus)**

[The effect of nicotinamide, methionine and alpha–tocopherol on the liver conjugating and mono–oxygenase systems and on lipid peroxidation in hepatosis–hepatitis in rats] Legon'kova LF, et al. **Eksp Klin Farmakol** 1997 Mar–Apr;60(2):68–71 (Eng. Abstr.) **(Rus)**

[Lidocaine as an immunomodulator in a toxic liver lesion] Uteshev BS, et al. **Eksp Klin Farmakol** 1997 Mar–Apr; 60(2):45–8 (Eng. Abstr.) **(Rus)**

[Stimulation of regenerative processes and correction of the functional activity of the liver in its partial resection and toxic lesions] Abakumova OIu, et al. **Vestn Ross Akad Med Nauk** 1996;(5):36–41 (Eng. Abstr.) **(Rus)**

[Correction of disruption of oxidative processes by dimethyl sulfoxide and alpha–tocopherol in acute chemical injury to the liver] Gonskiĭ IaI, et al. **Vopr Med Khim** 1996 Jan–Mar;42(1):30–4 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Marked liver enzyme elevations with clozapine [letter] Markowitz JS, et al. **J Clin Psychopharmacol** 1997 Feb; 17(1):70–1

Is activation of lysosomal enzymes responsible for paracetamol–induced hepatotoxicity and nephrotoxicity? Khandkar MA, et al. **J Pharm Pharmacol** 1996 Apr; 48(4):437–40

The involvement of cytochrome P4502E1 in 2–bromoethanol–induced hepatocyte cytotoxicity. Khan S, et al. **Pharmacol Toxicol** 1996 Apr;78(4):241–8

Monoamine oxidase released into plasma treated with the hepatotoxin allyl formate. Obata T, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun;92(3):365–8

Role of CYP3A in ethanol–mediated increases in acetaminophen hepatotoxicity. Kostrubsky VE, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):315–23

Overexpression of cytochrome P–450 isoforms involved in aflatoxin B1 bioactivation in human liver with cirrhosis and hepatitis. Kirby GM, et al. **Toxicol Pathol** 1996 Jul–Aug;24(4):458–67

EPIDEMIOLOGY

Assessing liver function before initiating disulfiram therapy [letter] Dilts SL, et al. **Am J Psychiatry** 1996 Nov; 153(11):1504–5

Halothane hepatitis in a South African population--frequency and the influence of gender and ethnicity [see comments] Voigt MD, et al. **S Afr Med J** 1997 Jul;87(7):882–5. Comment in: S Afr Med J 1997 Jul;87(7):880–3.

[Is it still possible to reduce the incidence of nephrotoxicity of aminoglycosides?] Beauchamp D, et al. **Pathol Biol (Paris)** 1995 Nov;43(9):779–87 (89 ref.) (Eng. Abstr.) **(Fre)**

ETIOLOGY

Hepatotoxicity after a short course of low–dose pyrazinamide. al Sarraf KA, et al. **Acta Gastroenterol Belg** 1996 Oct–Dec;59(4):251–3

Acetaminophen–induced hepatotoxicity: predisposing factors and treatments. Makin AJ, et al. **Adv Intern Med** 1997; 42:453–83 (143 ref.)

Coumarin–induced hepatic necrosis. Ghosh P, et al. **Am J Gastroenterol** 1997 Feb;92(2):348–9 (5 ref.)

Acute hepatitis and drug–related lupus induced by minocycline treatment. Golstein PE, et al. **Am J Gastroenterol** 1997 Jan;92(1):143–6

Acute liver injury and octreotide. González–Martín JA, et al. **Am J Gastroenterol** 1996 Nov;91(11):2434–5

Chronic hepatitis related to use of fluoxetine. Johnston DE, et al. **Am J Gastroenterol** 1997 Jul;92(7):1225–6

Autoimmune hepatitis triggered by administration of an herbal medicine. Kamiyama T, et al. **Am J Gastroenterol** 1997 Apr;92(4):703–4 (11 ref.)

Isoflurane hepatotoxicity: a case report and review of the literature. Sinha A, et al. **Am J Gastroenterol** 1996 Nov; 91(11):2406–9 (12 ref.)

Fenoterol–induced hepatitis in a pregnant woman: a case report. Fontaine P, et al. **Am J Obstet Gynecol** 1996 May; 174(5):1647–8

Pemoline and hepatotoxicity [letter] McCurry L, et al. **Am J Psychiatry** 1997 May;154(5):713–4

Acute hepatitis following enflurane anaesthesia. Reeves M. **Anaesth Intensive Care** 1997 Feb;25(1):80–2

Protracted cholestatic hepatitis after the use of prostata [letter] Hamid S, et al. **Ann Intern Med** 1997 Jul 15; 127(2):169–70

Nonalcoholic steatohepatitis [letter; comment] Redlich CA, et al. **Ann Intern Med** 1997 Sep 1;127(5):410; discussion 411. Comment on: Ann Intern Med 1997 Jan 15;126(2):137–45.

Subfulminant liver failure and severe hepatotoxicity caused by loratadine use [published erratum appears in Ann Intern Med 1997 May 1;126(9):746] Schiano TD, et al. **Ann Intern Med** 1996 Nov 1;125(9):738–40

Propylthiouracil–induced hepatic damage. Ozenirler S, et al. **Ann Pharmacother** 1996 Sep;30(9):960–3

Meningitis and hepatitis complicating intravenous immunoglobulin therapy. Shorr AF, et al. **Ann Pharmacother** 1996 Oct;30(10):1115–6

Antibiotic–associated hepatitis: update from 1990. Vial T, et al. **Ann Pharmacother** 1997 Feb;31(2):204–20 (162 ref.)

Incidence of hepatitis induced by non–steroidal anti–inflammatory drugs (NSAID) [letter] Trechot P, et al. **Ann Rheum Dis** 1996 Dec;55(12):936

Chaparral–associated hepatotoxicity. Sheikh NM, et al. **Arch Intern Med** 1997 Apr 28;157(8):913–9

Paroxetine and hepatotoxicity. Benbow SJ, et al. **BMJ** 1997 May 10;314(7091):1387

Quinolones may induce hepatitis. Jones SF, et al. **BMJ** 1997 Mar 22;314(7084):869

Bromobenzene and furosemide hepatotoxicity: alterations in glutathione, protein thiols, and calcium. Grewal KK, et al. **Can J Physiol Pharmacol** 1996 Mar;74(3):257–64

Severe hepatitis related to chemotherapy in hepatitis B virus carriers with hematologic malignancies. Survey in Japan, 1987–1991. Nakamura Y, et al. **Cancer** 1996 Nov 15; 78(10):2210–5

Asymptomatic hepatitis in persons who received alternative preventive therapy with pyrazinamide and ofloxacin. Ridzon R, et al. **Clin Infect Dis** 1997 Jun;24(6):1264–5

Postherpetic neuralgia [letter] Kato Y, et al. **Clin J Pain** 1995 Dec;11(4):336–8

Paracetamol–induced pancreatitis and fulminant hepatitis in a hemodialysis patient. Farrell J, et al. **Clin Nephrol** 1997 Aug;48(2):132–3

Terbinafine–induced prolonged cholestasis with reduction of interlobular bile ducts. Mallat A, et al. **Dig Dis Sci** 1997 Jul;42(7):1486–8

Granulomatous hepatitis in a patient with chronic hepatitis C treated with interferon–alpha. Veerabagu MP, et al. **Dig Dis Sci** 1997 Jul;42(7):1445–8

Hepatitis. Bondesson JD, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):695–718 (112 ref.)

Effect of an antimitotic agent colchicine on thioacetamide hepatotoxicity. Mangipudy RS, et al. **Environ Health Perspect** 1996 Jul;104(7):744–9

"Golf ball liver": agent orange hepatitis. Leonard C, et al. **Gut** 1997 May;40(5):687–8

Acute hepatic toxicity during cyclic chemotherapy in non Hodgkin's lymphoma. Faggioli P, et al. **Haematologica** 1997

Jan–Feb;82(1):38–42
Acute hepatitis complicating parenteral amiodarone does not preclude subsequent oral therapy. James PR, et al. **Heart** 1997 Jun;77(6):583–4
Amineptine induced liver injury. Report of two cases and brief review of the literature. Lazaros GA, et al. **Hepatogastroenterology** 1996 Jul–Aug;43(10):1015–9 (20 ref.)
Ketoconazole–induced hepatotoxicity [letter] Bernuau J, et al. **Hepatology** 1997 Sep;26(3):802
Hepatic injury during ketoconazole therapy in patients with onychomycosis: a controlled cohort study. Chien RN, et al. **Hepatology** 1997 Jan;25(1):103–7
Acute onset of dermatitis, hepatitis, and eosinophilia. Reichmuth DA, et al. **Hosp Pract (Off Ed)** 1997 Jul 15; 32(7):45–8
Interaction of lymphocytes with Kupffer cells from halothane–exposed guinea pigs. Furst SM, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):46–53
Liver inflammation and acute respiratory distress syndrome in a patient receiving hepatitis B vaccine: a possible relationship? Ranieri VM, et al. **Intensive Care Med** 1997 Jan;23(1):119–21
Case study: risperidone–induced hepatotoxicity in pediatric patients. Kumra S, et al. **J Am Acad Child Adolesc Psychiatry** 1997 May;36(5):701–5
Fever, lymphadenopathy, eosinophilia, lymphocytosis, hepatitis, and dermatitis: a severe adverse reaction to minocycline. MacNeil M, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 2):347–50
Pyrazinamide–induced granulomatous hepatitis. Knobel B, et al. **J Clin Gastroenterol** 1997 Jun;24(4):264–6
Severe hepatotoxicity on beginning propylthiouracil therapy. Lock DR, et al. **J Clin Gastroenterol** 1997 Jun;24(4):267–9
Coumarin–induced hepatotoxicity [letter] Loprinzi CL, et al. **J Clin Oncol** 1997 Sep;15(9):3167–8
A prospective clinical study of isoniazid–rifampicin–pyrazinamide–induced liver injury in an area endemic for hepatitis B. Hwang SJ, et al. **J Gastroenterol Hepatol** 1997 Jan;12(1):87–91
Immunotoxicology of the liver: adverse reactions to drugs. Beaune PH, et al. **J Hepatol** 1997;26 Suppl 2:37–42 (45 ref.)
Chronic ecstasy (3,4–methylenedioxymetamphetamine) abuse: a recurrent and unpredictable cause of severe acute hepatitis. Fidler H, et al. **J Hepatol** 1996 Oct;25(4):563–6
Hepatotoxicity of herbal remedies. Larrey D. **J Hepatol** 1997; 26 Suppl 1:47–51 (56 ref.)
Severe acute hepatitis associated with morphazinamide therapy [letter] Zavaglia C, et al. **J Hepatol** 1996 Dec; 25(6):1001
Alcoholic hepatic impairment complicating treatment with hepatotoxic antituberculosis drugs. Tiwari VK. **J Indian Med Assoc** 1996 Sep;94(9):347–8
Granulomatous hepatitis induced by aspirin–kodein analgesics. Elzouki AN, et al. **J Intern Med** 1996 Mar; 239(3):279–81
Paracetamol–induced cholestatic and granulomatous liver injuries. Lindgren A, et al. **J Intern Med** 1997 May; 241(5):435–9
Outcome of acetaminophen overdose in pediatric patients and factors contributing to hepatotoxicity [see comments] Rivera–Penera T, et al. **J Pediatr** 1997 Feb;130(2):300–4. Comment in: J Pediatr 1997 Feb;130(2):175–7.
The mitochondrial permeability transition: a new pathophysiological mechanism for Reye's syndrome and toxic liver injury. Trost LC, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1000–5
Minocycline related lupus [letter] Pointud P. **J Rheumatol** 1997 Sep;24(9):1851; discussion 1851–2
From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Jun 4;277(21):1664
Severe hepatitis in three AIDS patients treated with indinavir [letter] Bräu N, et al. **Lancet** 1997 Mar 29;349(9056):924–5
Acarbose–induced acute severe hepatotoxicity [letter] Carrascosa M, et al. **Lancet** 1997 Mar 8;349(9053):698–9
Epidemic of liver disease caused by hydrochlorofluorocarbons used as ozone–sparing substitutes of chlorofluorocarbons. Hoet P, et al. **Lancet** 1997 Aug 23;350(9077):556–9
Azathioprine–induced lymphoma manifesting as fulminant hepatic failure. Aguilar HI, et al. **Mayo Clin Proc** 1997 Jul;72(7):643–5
Use of heterologous expression systems to study autoimmune drug–induced hepatitis. Lecoeur S, et al. **Methods Enzymol** 1996;272:76–85
Isoniazid hepatotoxicity after orthotopic liver transplantation. Schluger LK, et al. **Mt Sinai J Med** 1996 Oct–Nov; 63(5–6):364–9
Pediatric subacute acetaminophen toxicity. Dunlevy TM, et al. **Otolaryngol Head Neck Surg** 1997 Jan;116(1):134–6
Propylthiouracil–induced fulminant hepatitis: case report and review of the literature. Deidiker R, et al. **Pediatr Pathol Lab Med** 1996 Sep–Oct;16(5):845–52 (25 ref.)
Valproic–acid–associated pancreatitis and hepatic toxicity in children with endstage renal disease [letter] Levin TL, et al. **Pediatr Radiol** 1997 Feb;27(2):192–3
Reversible hepatotoxicity of paroxetine in a patient with major depression. Helmchen C, et al. **Pharmacopsychiatry** 1996 Nov;29(6):223–6
Acute hepatitis, rhabdomyolisis and pancytopenia associated with perazine therapy [letter] Pantel J, et al. **Pharmacopsychiatry** 1996 Jan;29(1):43
Acetaminophen–induced hepatotoxicity is associated with early changes in AP–1 DNA binding activity. Blazka ME, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jun; 92(3):259–73
Liver reactions to oral low–dose tetracyclines. Björnsson E, et al. **Scand J Gastroenterol** 1997 Apr;32(4):390–5 (20 ref.)
A jaundiced farmer. Richards JM, et al. **Scott Med J** 1996 Dec;41(6):176–7
Failure to monitor. Avery JK. **Tenn Med** 1997 Aug; 90(8):311–2
Propylthiouracil–induced hepatotoxicity. Hardee JT, et al. **West J Med** 1996 Sep;165(3):144–7
Isoniazid–related fatal hepatitis [letter; comment] Salpeter SR. **West J Med** 1996 Nov;165(5):323. Comment on: West J Med 1996 Jun;164(6):486–91.
A case of flutamide–induced acute cholestatic hepatitis–a case report. Lee HW, et al. **Yonsei Med J** 1996 Jun; 37(3):225–9
[Recommendations for treatment of paracetamol poisoning. Danish Medical Society, Study of the Liver] Clemmesen JO, et al. **Ugeskr Laeger** 1996 Nov 25;158(48):6892–5 (20 ref.) (Eng. Abstr.) **(Dan)**
[Toxic hepatitis due to dimethylformamide: case reports and literature review] Poelmans L, et al. **Acta Clin Belg** 1996; 51(5):360–6 (Eng. Abstr.) **(Dut)**
[Severe hepatitis attributed to paroxetine (Seroxat)] de Man RA. **Ned Tijdschr Geneeskd** 1997 Mar 15;141(11):540–2 (Eng. Abstr.) **(Dut)**
[Cytolytic hepatitis during treatment with phenothiazines: apropos of a case] Mesure G, et al. **Encephale** 1996 Sep–Oct;22(5):388–90 (Eng. Abstr.) **(Fre)**
[Cytolytic hepatitis of immuno–allergic mechanism caused by fluindione (letter)] Andant C, et al. **Gastroenterol Clin Biol** 1997;21(3):237–8 **(Fre)**
[Acute mixed hepatitis caused by tianeptine (letter)] Balleyguier C, et al. **Gastroenterol Clin Biol** 1996; 20(6–7):607–8 **(Fre)**
[Hepatotoxicity of drugs. 9th update of the bibliographic database of hepatic involvements and related drugs] Biour M, et al. **Gastroenterol Clin Biol** 1996;20(10):744–79 (9 ref.) **(Fre)**
[Acute symptomatic cytolytic hepatitis probably related to clarithromycin (letter)] Cadranel JF, et al. **Gastroenterol Clin Biol** 1996;20(11):1034–5 **(Fre)**
[Acute hepatitis caused by the combination of tiliquinol and tilbroquinol (Intétrix) (letter)] Caroli–Bosc FX, et al. **Gastroenterol Clin Biol** 1996;20(6–7):605–6 **(Fre)**
[Acute cytolytic hepatitis caused by hydroxycarbamide (letter)] Chapoutot C, et al. **Gastroenterol Clin Biol** 1997; 21(1):87–9 **(Fre)**
[Acute cytolytic hepatitis in azathioprine hypersensitivity (letter)] Dubost JJ, et al. **Gastroenterol Clin Biol** 1996; 20(10):912–3 **(Fre)**
[Acute hepatitis caused by Solupred in a patient with Crohn disease (letter)] Gerolami R, et al. **Gastroenterol Clin Biol** 1997;21(3):236–7 **(Fre)**
[Acute cytolytic hepatitis caused by coumarin. 2 cases] Koch S, et al. **Gastroenterol Clin Biol** 1997;21(3):223–5 (19 ref.) (Eng. Abstr.) **(Fre)**
[Acute painful and febrile hepatic involvement related to ingestion of tianeptine (letter)] Rifflet H, et al. **Gastroenterol Clin Biol** 1996;20(6–7):606–7 **(Fre)**
[Painful acute liver involvement related to ingestion of fenofibrate (letter)] Rouhier ML, et al. **Gastroenterol Clin Biol** 1996;20(12):1137–8 **(Fre)**
[Acute hepatitis associated with microvesicular steatosis induced by Atrium (letter)] Schneider S, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1064–5 **(Fre)**
[Acute hepatitis caused by tisopurine. A case (letter)] Viguier J, et al. **Gastroenterol Clin Biol** 1997;21(4):342 **(Fre)**
[Giromitra mushroom (false moral) poisoning associated with hepatitis (letter)] Vitte RL, et al. **Gastroenterol Clin Biol** 1997;21(1):89–90 **(Fre)**
[Hepatitis following exposure to thiourea? (letter)] Buffet C, et al. **Presse Med** 1997 Mar 29;26(10):464–5 **(Fre)**
[Drug–induced hepatic involvement, something to consider!] Oestreicher MK, et al. **Schweiz Med Wochenschr** 1996 Nov 30;126(48):2094–6 (Eng. Abstr.) **(Fre)**
[Liver injury caused by coumarin anticoagulants: experience of the IKS (Intercanton Monitoring Station) and the SANZ (Swiss Center for Drug Monitoring)] Ciorciaro C, et al. **Schweiz Med Wochenschr** 1996 Dec 7;126(49):2109–13 (Eng. Abstr.) **(Ger)**
[Liver injury under tuberculostatic treatment] Fattinger K, et al. **Schweiz Rundsch Med Prax** 1997 Apr 9;86(15):626–9 (Eng. Abstr.) **(Ger)**
[Hepatic diseases caused by drugs] Lammert F, et al. **Schweiz Rundsch Med Prax** 1997 Jul 16;86(29–30):1167–71 (7 ref.) (Eng. Abstr.) **(Ger)**
[A case of fulminant hepatitis caused by antiandrogen, flutamide in a patient with prostate cancer] Satoh T, et al. **Nippon Hinyokika Gakkai Zasshi** 1997 Jul;88(7):694–6 (Eng. Abstr.) **(Jpn)**
[A case of hypersensitivity type of liver injury induced by pyrimetamine and sulfadoxin (Fansidar)] Okazaki Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 Feb;94(2):129–32 **(Jpn)**
[A case report of drug induced hepatitis and pancreatitis] Shimizu A, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):351–5 (19 ref.) **(Jpn)**
[Liver damage caused by sensitivity to anti–inflammatory agents] Bogić M, et al. **Srp Arh Celok Lek** 1997 Sep–Oct; 125(9–10):291–4 (Eng. Abstr.) **(Scc)**
[Liver failure caused by flutamide] Guzmán Martínez–Valls PL, et al. **Actas Urol Esp** 1997 Mar;21(3):278–82 (Eng. Abstr.) **(Spa)**
[Cholestatic hepatitis associated with ticlopidine (letter)] Bruguera M. **Gastroenterol Hepatol** 1997 Mar;20(3):163–4 **(Spa)**
[Cholestatic hepatitis caused by amoxycillin–clavulanic acid. Report of a new case] Bustamante Balén M, et al. **Gastroenterol Hepatol** 1997 Apr;20(4):187–9 (14 ref.) (Eng. Abstr.) **(Spa)**
[Hepatotoxicity caused by amoxicillin, clavulanic acid or both? (letter) (see comments)] Caballero Plasencia AM, et al. **Gastroenterol Hepatol** 1997 Jan;20(1):45–6. Comment in: Gastroenterol Hepatol 1997 Jun–Jul;20(6):337–8. **(Spa)**
[Severe hepatotoxicity of tuberculostatic agents. Increase in the incidence] Moitinho E, et al. **Gastroenterol Hepatol** 1996 Nov;19(9):448–51 (Eng. Abstr.) **(Spa)**
[Cholestatic hepatitis caused by midecamycin] Pérez Moreno JM, et al. **Gastroenterol Hepatol** 1996 Nov;19(9):459–61 (Eng. Abstr.) **(Spa)**
[Hepatic toxicity caused by aceclofenac (letter)] Prieto de Paula JM, et al. **Gastroenterol Hepatol** 1997 Mar;20(3):165 **(Spa)**
[Hepatotoxicity caused by amoxicillin–clavulanic acid (letter; comment)] Reñe JM, et al. **Gastroenterol Hepatol** 1997 Jun–Jul;20(6):337–8. Comment on: Gastroenterol Hepatol 1997 Jan;20(1):45–6. **(Spa)**
[Acute hepatitis caused by diclofenac (letter)] Vilà Santasuana A, et al. **Gastroenterol Hepatol** 1997 Mar; 20(3):164–5 **(Spa)**
[Acute hepatitis associated with treatment with minocycline (letter)] Bruguera M, et al. **Med Clin (Barc)** 1997 Apr 19; 108(15):596 (10 ref.) **(Spa)**
[Mixed hepatitis induced by azathioprine (letter)] de la Serna Higuera C, et al. **Med Clin (Barc)** 1996 Dec 7;107(20):795 **(Spa)**
[Hepatitis due to lovastatin (letter)] Gavilán Carrasco JC, et al. **Med Clin (Barc)** 1996 Oct 26;107(14):557–8 **(Spa)**
[Hepatitis and Ecstasy (letter)] Pascual Bartolomé S, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):279 **(Spa)**
[Lansoprazole–induced hepatitis (letter)] Viana de Miguel C, et al. **Med Clin (Barc)** 1997 Apr 19;108(15):599 **(Spa)**
[Hepatotoxicity caused by cloxacillin] Barrio J, et al. **Rev Esp Enferm Dig** 1997 Jul;89(7):559–60 (Eng. Abstr.) **(Spa)**
[Toxic hepatitis caused by aceclofenac (letter)] Pérez Moreno JM, et al. **Rev Esp Enferm Dig** 1996 Nov;88(11):815–6 **(Spa)**
[In the zone between drug insurance and patient insurance. A case of liver damage, requiring transplantation, caused by antabuse] Schmidt D. **Lakartidningen** 1996 Sep 18; 93(38):3262, 3265 **(Swe)**
[Status of the antioxidant, monooxygenase and humoral immune system of the body in d–galactosamine hepatitis] Korda MM. **Ukr Biokhim Zh** 1996 Jan–Feb;68(1):72–5 (Eng. Abstr.) **(Ukr)**

GENETICS

The GST T1 and CYP2E1 genotypes are possible factors causing vinyl chloride induced abnormal liver function. Huang CY, et al. **Arch Toxicol** 1997;71(8):482–8
Genetic predisposition to drug–induced hepatotoxicity. Larrey D, et al. **J Hepatol** 1997;26 Suppl 2:12–21 (74 ref.)

IMMUNOLOGY

Pemoline–induced autoimmune hepatitis. Sterling MJ, et al. **Am J Gastroenterol** 1996 Oct;91(10):2233–4
In vitro investigation of the molecular mechanisms of hepatotoxicity. Castell JV, et al. **Arch Toxicol Suppl** 1997; 19:313–21 (27 ref.)
Human cytochrome P450 2E1 is a major autoantigen associated with halothane hepatitis. Bourdi M, et al. **Chem Res Toxicol** 1996 Oct–Nov;9(7):1159–66
Evidence of antibodies to erythromycin in serum of a patient following an episode of acute drug–induced hepatitis. Gómez–Lechón MJ, et al. **Clin Exp Allergy** 1996 May; 26(5):590–6
Study of immune reactivity of minocycline–induced chronic active hepatitis. Herzog D, et al. **Dig Dis Sci** 1997 May; 42(5):1100–3
Characterization of the humoral immune response and hepatotoxicity after multiple halothane exposures in guinea pigs. Chen M, et al. **Drug Metab Rev** 1997 Feb–May; 29(1–2):103–22
Anti–cytochrome P450 autoantibodies in drug–induced disease. Beaune PH, et al. **Eur J Haematol Suppl** 1996; 60:89–92 (23 ref.)
C1Q synthesis by tissue mononuclear phagocytes from normal and from damaged rat liver: up–regulation by dexamethasone, down–regulation by interferon gamma, and lipopolysaccharide. Armbrust T, et al. **Hepatology** 1997 Jul; 26(1):98–106
Interaction of lymphocytes with Kupffer cells from halothane–exposed guinea pigs. Furst SM, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):46–53
Antigenic targets in tienilic acid hepatitis. Both cytochrome P450 2C11 and 2C11–tienilic acid adducts are transported

to the plasma membrane of rat hepatocytes and recognized by human sera. Robin MA, et al. **J Clin Invest** 1996 Sep 15;98(6):1471–80

Immunoallergic drug–induced hepatitis: lessons from halothane. Kenna JG. **J Hepatol** 1997;26 Suppl 1:5–12 (49 ref.)

Acute hepatitis caused by alverine associated with anti–lamin A and C autoantibodies. Malka D, et al. **J Hepatol** 1997 Aug;27(2):399–403

Plasma membrane cytochromes P450 as neoantigens and autoimmune targets in drug–induced hepatitis. Robin MA, et al. **J Hepatol** 1997;26 Suppl 1:23–30 (39 ref.)

Cytochrome P450 2E1 is a cell surface autoantigen in halothane hepatitis. Eliasson E, et al. **Mol Pharmacol** 1996 Sep;50(3):573–82

Epitope mapping of human CYP1A2 in dihydralazine–induced autoimmune hepatitis. Belloc C, et al. **Pharmacogenetics** 1997 Jun;7(3):181–6

Demonstration of a cellular immune response in halothane–exposed guinea pigs. Furst SM, et al. **Toxicol Appl Pharmacol** 1997 Apr;143(2):245–55

[Role of peritoneal macrophages during exposure to natural metabolites in toxic hepatitis] Proskuriakova IS. **Biull Eksp Biol Med** 1996 Feb;121(2):148–50 **(Rus)**

METABOLISM

Immunochemical detection of drug–protein adducts in acetaminophen hepatotoxicity. Hinson JA, et al. **Adv Exp Med Biol** 1996;387:47–55

The liver as origin and target of reactive intermediates exemplified by the progesterone derivative, cyproterone acetate. Schwarz LR, et al. **Adv Exp Med Biol** 1996; 387:243–51

Differential expression of cysteine–rich intestinal protein in liver and intestine in CCl4–induced inflammation. Khoo C, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G613–8

The GST T1 and CYP2E1 genotypes are possible factors causing vinyl chloride induced abnormal liver function. Huang CY, et al. **Arch Toxicol** 1997;71(8):482–8

In vitro investigation of the molecular mechanisms of hepatotoxicity. Castell JV, et al. **Arch Toxicol Suppl** 1997; 19:313–21 (27 ref.)

Minimal effect of acute experimental hepatitis induced by lipopolysaccharide/D–galactosamine on biotransformation in rats. Omar H el–D, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1921–4

An evaluation of the roles of metabolic denitrosation and alpha–hydroxylation in the hepatotoxicity of N–Nitrosodimethylamine. Lee VM, et al. **Chem Res Toxicol** 1996 Dec;9(8):1319–24

Induction of a 72–kDa heat shock protein and cytoprotection against thioacetamide–induced liver injury in rats. Fujimori S, et al. **Dig Dis Sci** 1997 Sep;42(9):1987–94

Selective protein arylation and acetaminophen–induced hepatotoxicity. Cohen SD, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):59–77 (111 ref.)

Role of metallothionein in cadmium–induced hepatotoxicity and nephrotoxicity. Klaassen CD, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):79–102 (66 ref.)

Neutrophil– and glutathione–mediated hepatotoxicity of alpha–naphthylisothiocyanate. Roth RA, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):153–65 (44 ref.)

The hepatic interaction of aliphatic alcohols with halogenated hydrocarbons. Simmons JE. **Drug Metab Rev** 1997 Feb–May;29(1–2):123–36 (29 ref.)

Immunohistochemical study on galactosamine–induced subacute hepatitis in rats of JCL: Wistar–TGN (ARGHGEN) 1 Nts strain (Mini rats). Uetsuka K, et al. **Exp Anim** 1997 Jul;46(3):203–9

Antigenic targets in tienilic acid hepatitis. Both cytochrome P450 2C11 and 2C11–tienilic acid adducts are transported to the plasma membrane of rat hepatocytes and recognized by human sera. Robin MA, et al. **J Clin Invest** 1996 Sep 15;98(6):1471–80

Ethanol feeding enhances inflammatory cytokine expression in lipopolysaccharide–induced hepatitis. Pennington HL, et al. **J Gastroenterol Hepatol** 1997 Apr;12(4):305–13

Contrasting effects of thioacetamide–induced liver damage on the brain uptake indices of ornithine, arginine and lysine: modulation by treatment with ornithine aspartate. Albrecht J, et al. **Metab Brain Dis** 1996 Sep;11(3):229–37

Increased lipid peroxidation and antioxidant activity in methionine–induced hepatitis in rabbits. Toborek M, et al. **Nutrition** 1996 Jul–Aug;12(7–8):534–7

Histopathology of acetaminophen–induced liver changes: role of interleukin 1 alpha and tumor necrosis factor alpha. Blazka ME, et al. **Toxicol Pathol** 1996 Mar–Apr;24(2):181–9

Outputs of hepatic copper and cadmium stimulated by tetrathiomolybdate (TTM) injection in Long–Evans Cinnamon (LEC) rats pretreated with cadmium, and in Fischer rats pretreated with copper and cadmium. Lai YR, et al. **Toxicology** 1997 Jun 6;120(1):47–54

[Effect of ozone on the liver state in experimental chronic hepatitis] Kontorshchikova KN, et al. **Biull Eksp Biol Med** 1996 Aug;122(8):238–40 **(Rus)**

[Role of the antioxidant system in the pathogenesis of toxic hepatitis] Gonskiĭ IaI, et al. **Patol Fiziol Eksp Ter** 1996 Apr–Jun;(2):43–5 (Eng. Abstr.) **(Rus)**

MICROBIOLOGY

Microcystin hepatitis [letter] Probert CS, et al. **Arq Gastroenterol** 1995 Oct–Dec;32(4):199

PATHOLOGY

Histopathological evaluation on the effect of red propolis on liver damage induced by CCl4 in rats. Merino N, et al. **Arch Med Res** 1996 Autumn;27(3):285–9

Effect of SKF–525A on liver metabolism and hepatotoxicity of tri– and dibutyltin compounds in mice. Ueno S, et al. **Arch Toxicol** 1997;71(8):513–8

Pharmacokinetics of indomethacin ester prodrugs: gastrointestinal and hepatic toxicity and the hydrolytic capacity of various tissues in rats. Ogiso T, et al. **Biol Pharm Bull** 1996 Sep;19(9):1178–83

Patterns of liver injury induced by mixtures of halogenated hydrocarbons: a predictable event? Charbonneau M, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):137–51 (18 ref.)

The Snider Address. A four–decade adventure in experimental liver injury. Plaa GL. **Drug Metab Rev** 1997 Feb–May;29(1–2):1–37

Neutrophil– and glutathione–mediated hepatotoxicity of alpha–naphthylisothiocyanate. Roth RA, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):153–65 (44 ref.)

Hepatocyte apoptosis in hepatic iron overload diseases. Zhao M, et al. **Histol Histopathol** 1997 Apr;12(2):367–74

Differential diagnosis of postoperative liver failure in a 12–year–old child. Hausmann R, et al. **Int J Legal Med** 1996;109(4):210–2

Comparison of hepatotoxicity of 1,2–, 1,3– and 1,4–dibromobenzenes: the dynamics of changes of selected parameters of liver necrosis in acute poisoning in mice. Szymańska JA, et al. **J Appl Toxicol** 1996 Jan–Feb; 16(1):35–41

Risperidone–associated hepatotoxicity [letter] Fuller MA, et al. **J Clin Psychopharmacol** 1996 Feb;16(1):84–5

Involvement of 26–kDa cell–associated TNF–alpha in experimental hepatitis and exacerbation of liver injury with a matrix metalloproteinase inhibitor. Solorzano CC, et al. **J Immunol** 1997 Jan 1;158(1):414–9

Toxicity of PCB 156 in the rat liver: an ultrastructural and biochemical study. Gilroy C, et al. **J Submicrosc Cytol Pathol** 1996 Jan;28(1):27–32

Histopathologic changes associated with fialuridine hepatotoxicity. Kleiner DE, et al. **Mod Pathol** 1997 Mar; 10(3):192–9

Hepatotoxic side–effect of clomethiazole. Heinemann F, et al. **Pharmacopsychiatry** 1996 Sep;29(5):196–7

Histopathology of acetaminophen–induced liver changes: role of interleukin 1 alpha and tumor necrosis factor alpha. Blazka ME, et al. **Toxicol Pathol** 1996 Mar–Apr;24(2):181–9

The synovial membrane, liver, and tongue: target organs for a ricin A–chain immunotoxin (ZD0490). Westwood FR, et al. **Toxicol Pathol** 1996 Jul–Aug;24(4):477–83

Effects of various pretreatments on the hepatotoxicity of inhaled styrene in the B6C3F1 mouse. Morgan DL, et al. **Xenobiotica** 1997 Apr;27(4):401–11

[Hepatitis caused by the amoxicillin–clavulanic acid combination. An example of drug–induced biliary hepatotoxicity] Bralet MP, et al. **Ann Pathol** 1996 Dec; 16(6):425–9 (Eng. Abstr.) **(Fre)**

[Aspects of morphology of photodynamic destruction] Kats VA, et al. **Arkh Patol** 1996 Jan–Feb;58(1):17–21 (Eng. Abstr.) **(Rus)**

[A method of monitoring toxic liver damage based on changes in the total water level and magnetic–relaxation characteristics] Tsibulevskiĭ AIu, et al. **Biull Eksp Biol Med** 1995 Dec;120(12):584–6 **(Rus)**

PHYSIOPATHOLOGY

Hepatic circulation and toxicology. Lautt WW, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):369–95 (117 ref.)

Adrenergic modulation of hepatotoxicity. Roberts SM, et al. **Drug Metab Rev** 1997 Feb–May;29(1–2):329–53 (56 ref.)

Production and role of interleukin–10 in concanavalin A–induced hepatitis in mice. Louis H, et al. **Hepatology** 1997 Jun;25(6):1382–9

Hepatotoxicity of clozapine. Hummer M, et al. **J Clin Psychopharmacol** 1997 Aug;17(4):314–7

Expression of liver functions following sub–lethal and non–lethal doses of allyl alcohol and acetaminophen in the rat. Tygstrup N, et al. **J Hepatol** 1997 Jul;27(1):156–62

Endotoxin–inducible granulocyte–mediated hepatocytotoxicity requires adhesion and serine protease release. Sauer A, et al. **J Leukoc Biol** 1996 Nov; 60(5):633–43

Hepatitis related to the Chinese medicine Shou–wu–pian manufactured from Polygonum multiflorum. But PP, et al. **Vet Hum Toxicol** 1996 Aug;38(4):280–2

[Role of lipid peroxidation in the mechanism of proliferation of hepatic fibrous tissue in experimental chronic hepatitis] Vengerovskiĭ AI, et al. **Patol Fiziol Eksp Ter** 1996 Apr–Jun; (2):37–9 (Eng. Abstr.) **(Rus)**

[The selenium content of the body in experimental animals and its effect on the functional biochemical status of the liver in toxic injury] Shman'ko VV. **Fiziol Zh** 1996; 42(1–2):65–72 (Eng. Abstr.) **(Ukr)**

PREVENTION & CONTROL

Phase I trial of alpha–tocopherol effects on 13–cis–retinoic acid toxicity. Dimery IW, et al. **Ann Oncol** 1997 Jan; 8(1):85–9

Methylenedioxy group as determinant of schisandrin in enhancing hepatic mitochondrial glutathione in carbon tetrachloride–intoxicated mice. Ip SP, et al. **Biochem Pharmacol** 1997 Jul 15;54(2):317–9

Hepatoprotective effect of Hovenia dulcis THUNB. on experimental liver injuries induced by carbon tetrachloride or D–galactosamine/lipopolysaccharide. Hase K, et al. **Biol Pharm Bull** 1997 Apr;20(4):381–5

Protective effect of S–(1,2–dicarboxyethyl)glutathione, an intrinsic tripeptide in liver, heart and lens, and its esters on acetaminophen–induced hepatotoxicity in rats. Sakaue T, et al. **Biol Pharm Bull** 1996 Sep;19(9):1216–9

Induction of a 72–kDa heat shock protein and cytoprotection against thioacetamide–induced liver injury in rats. Fujimori S, et al. **Dig Dis Sci** 1997 Sep;42(9):1987–94

Hepatoprotection by agents which modulate macrophage activity may be mediated by their mitogenic properties. Barriault C, et al. **Drug Metab Rev** 1997 Feb–May; 29(1–2):397–411 (60 ref.)

Effect of verapamil on allyl alcohol hepatotoxicity. Atzori L, et al. **Drug Metabol Drug Interact** 1996;13(2):87–98

The effects of alpha–phenyl–tert–butyl nitrone (PBN) on copper–induced rat fulminant hepatitis with jaundice. Yamashita T, et al. **Free Radic Biol Med** 1996;21(6):755–61

Strain–specific enhancement or inhibition of coumarin hepatotoxicity in mice following pretreatment with two different liver enzyme–inducing agents. Cottrell S, et al. **Fundam Appl Toxicol** 1996 Nov;34(1):47–55

Protection from acetaminophen–induced liver damage by the synergistic action of low doses of the poly(ADP–ribose) polymerase–inhibitor nicotinamide and the antioxidant N–acetylcysteine or the amino acid L–methionine. Kröger H, et al. **Gen Pharmacol** 1997 Feb;28(2):257–63

Patients must be a virtue. Kenna JG. **Hum Exp Toxicol** 1996 Dec;15(12):981–3

ICE–protease inhibitors block murine liver injury and apoptosis caused by CD95 or by TNF–alpha. Künstle G, et al. **Immunol Lett** 1997 Jan;55(1):5–10

Vesnarinone inhibits immune–mediated but not Fas (CD95) agonist–mediated hepatic injury. Lazarus DD, et al. **Int J Immunopharmacol** 1997 Jan;19(1):49–58

Hepatoprotective activity of Boerhaavia diffusa L. roots––a popular Indian ethnomedicine. Rawat AK, et al. **J Ethnopharmacol** 1997 Mar;56(1):61–6

Natural products with hepatoprotective action. Utrilla MP. **Methods Find Exp Clin Pharmacol** 1996;18 Suppl B:11–2

Effects of Cuban red propolis on galactosamine–induced hepatitis in rats. Rodriguez S, et al. **Pharmacol Res** 1997 Jan;35(1):1–4

Effect of a lignan–enriched extract of Schisandra chinensis on aflatoxin B1 and cadmium chloride–induced hepatotoxicity in rats. Ip SP, et al. **Pharmacol Toxicol** 1996 Jun;78(6):413–6

Hepato–protective effect of daturaolone isolated from Solanum arundo. Grace MH, et al. **Pharmazie** 1996 Aug; 51(8):593–5

Preventive effect of lithospermate B from Salvia miltiorhiza on experimental hepatitis induced by carbon tetrachloride or D–galactosamine/lipopolysaccharide. Hase K, et al. **Planta Med** 1997 Feb;63(1):22–6

Protective effects of red ginseng saponins against carbon tetrachloride–induced hepatotoxicity in Sprague Dawley rats. Jeong TC, et al. **Planta Med** 1997 Apr;63(2):136–40

Effect of a hepatoprotective agent, YH–439, on the pharmacokinetics of furosemide and azosemide in rats. Kim SH, et al. **Res Commun Mol Pathol Pharmacol** 1996 Feb; 91(2):233–44

Late dimethyl sulfoxide administration provides a protective action against chemically induced injury in both the liver and the kidney. Lind RC, et al. **Toxicol Appl Pharmacol** 1997 Jan;142(1):201–7

RADIOGRAPHY

Methimazole–induced cholestatic liver injury, mimicking sclerosing cholangitis. Schwab GP, et al. **Langenbecks Arch Chir** 1996;381(4):225–7

SURGERY

Chinese herbal medicine, fulminant hepatitis, and liver transplantation [letter; comment] Yoshida EM, et al. **Am J Gastroenterol** 1996 Dec;91(12):2647–8. Comment on: Am J Gastroenterol 1996 Jul;91(7):1436–8.

Should a patient who attempted suicide receive a liver transplant? [see comments] Forster J, et al. **J Clin Ethics** 1996 Fall;7(3):257–67. Comment in: J Clin Ethics 1996 Fall;7(3):268–76. Comment in: J Clin Ethics 1996 Fall;7(3):277–83.

THERAPY

The effect of a pulsed magnetic field and that of methyl–silane triol on galactosamine induced hepatitis among rats. Bellossi A, et al. **Panminerva Med** 1996 Sep; 38(3):133–8

VETERINARY

Hepatic ultrasonographic findings in experimental carbon tetrachloride intoxication of the dog. Vörös K, et al. **Acta Vet Hung** 1997;45(2):137–50

[A frequently used drug with fatal outcome! (letter)] Pijls H. **Tijdschr Diergeneeskd** 1997 Apr 15;122(8):230 **(Dut)**

HEPATITIS, VIRAL, ANIMAL

DIAGNOSIS

DNA in situ hybridization for the rapid diagnosis of massive necrotizing avian adenovirus hepatitis and pancreatitis in chicks. Goodwin MA, et al. **Avian Dis** 1996 Oct–Dec; 40(4):828–31

Detection of enterotropic mouse hepatitis virus fecal excretion by polymerase chain reaction. Casebolt DB, et al. **Lab Anim Sci** 1997 Feb;47(1):6–10

[Superacute lethal liver necrosis in monkeys infected with highly pathogenic variants of enteroviruses (ECHO 11 and ECHO 19 viruses)] Lashkevich VA, et al. **Vopr Virusol** 1996 Sep–Oct;41(5):198–206 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Inhibition of duck hepatitis B virus replication by 2',3'-dideoxy-3'-fluoroguanosine in vitro and in vivo. Hafkemeyer P, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):792–4

Long-term ganciclovir chemotherapy for congenital duck hepatitis B virus infection in vivo: effect on intrahepatic-viral DNA, RNA, and protein expression. Luscombe C, et al. **Hepatology** 1996 Oct;24(4):766–73

ETIOLOGY

Exacerbated viral hepatitis in IFN-gamma receptor-deficient mice is not suppressed by IL-12. Schijns VE, et al. **J Immunol** 1996 Jul 15;157(2):815–21

Enterotropic mouse hepatitis virus. Homberger FR. **Lab Anim** 1997 Apr;31(2):97–115 (145 ref.)

IMMUNOLOGY

Age-related changes in susceptibility of mice to low-virulent mouse hepatitis virus (MHV-2-CC) infection. Suzuki H, et al. **Exp Anim** 1997 Jul;46(3):211–8

Mouse hepatitis viral infection induces an extrathymic differentiation of the specific intrahepatic alpha beta-TCRintermediate LFA-1high T-cell population. Lamontagne L, et al. **Immunology** 1997 Mar;90(3):402–11

Characterization of T cells expanded in vivo during primary mouse hepatitis virus infection in mice. Kyuwa S, et al. **J Vet Med Sci** 1996 May;58(5):431–7

Generation of antiviral CD11ahigh T cells in CD4+ T cell-depleted mice and adult thymectomized mice after mouse hepatitis virus infection. Kyuwa S, et al. **J Vet Med Sci** 1996 May;58(5):465–7

PATHOLOGY

Effect of a retroviral immunodeficiency syndrome on murine cytomegalovirus-induced hepatitis. Peacock CD, et al. **Am J Pathol** 1997 Mar;150(3):1089–100

Adenovirus-induced inclusion body hepatitis in four-day-old broiler breeders. Pilkington P, et al. **Avian Dis** 1997 Apr–Jun;41(2):472–4

PREVENTION & CONTROL

Protective effects of a novel quinone derivative, E3330, on mouse hepatitis virus (MHV)-induced chronic hepatitis in athymic nude mice. Uetsuka K, et al. **Exp Anim** 1997 Jul; 46(3):219–23

Protective effect of recombinant interferon (IFN)-alpha/beta on MHV-2cc-induced chronic hepatitis in athymic nude mice. Uetsuka K, et al. **Exp Anim** 1996 Jul;45(3):293–7

Occurrence of coxsackievirus hepatitis in baby rabbits and protection by a formalin-inactivated polyvalent vaccine. See DM, et al. **Proc Soc Exp Biol Med** 1997 Oct;216(1):52–6

VIROLOGY

Neuropathogenicity of mouse hepatitis virus JHM isolates differing in hemagglutinin-esterase protein expression [see comments] Yokomori K, et al. **J Neurovirol** 1995 Dec; 1(5–6):330–9. Comment in: J Neurovirol 1995 Dec;1(5–6):323–5.

The GB hepatitis viruses. Karayiannis P, et al. **J Viral Hepat** 1995;2(5):221–6 (17 ref.)

Species-specific variants of GB virus A in captive monkeys. Leary TP, et al. **J Virol** 1996 Dec;70(12):9028–30

Five new or recently discovered (GBV-A) virus species are indigenous to New World monkeys and may constitute a separate genus of the Flaviviridae. Bukh J, et al. **Virology** 1997 Mar 17;229(2):429–36

[New hepatitis viruses (editorial)] Cohard M. **Gastroenterol Clin Biol** 1996;20(6–7):527–30 **(Fre)**

HEPATITIS, VIRAL, HUMAN

Hepatitis G virus infection: a work in progress [editorial; comment] Di Bisceglie AM. **Ann Intern Med** 1996 Nov 1;125(9):772–3. Comment on: Ann Intern Med 1996 Nov 1;125(9):740–3.

Hepatitis A, B, C, D, and E: making sense of the alphabet soup [letter] Masters M, et al. **Ann Pharmacother** 1996 Sep; 30(9):1038–9

Hepatitis G virus: identification and prevalence. Karayiannis P, et al. **Br J Hosp Med** 1996 Sep 4–17;56(5):238–40 (17 ref.)

Hepatitis viruses and the neonate. Kane MA. **Clin Perinatol** 1997 Mar;24(1):181–91 (50 ref.)

Hepatitis A–G prevention, diagnosis, & therapy. Levinson MJ. **Compr Ther** 1997 Jul;23(7):482–90 (52 ref.)

Update hepatitis A–G. Blum HE. **Digestion** 1997;58 Suppl 1:33–6 (8 ref.)

Hepatitis G virus in liver disease: cause or case? [editorial] Raimondo G, et al. **Ital J Gastroenterol** 1996 Oct–Nov; 28(8):470–3 (28 ref.)

The A, B, C, D and E of viral hepatitis. Slavkin HC. **J Am Dent Assoc** 1996 Nov;127(11):1667–70

G(ee): a new hepatitis virus [editorial] Malnick SD, et al. **J Clin Gastroenterol** 1997 Mar;24(2):62–4 (32 ref.)

Viral hepatitis in Japan: update. Nishioka M, et al. **J Gastroenterol Hepatol** 1997 Jun;12(6):S36–44 (50 ref.)

Prevention, diagnosis and treatment of viral hepatitis. Long BW. **J Miss State Med Assoc** 1997 Jun;38(6):203–5 (0 ref.)

Proceedings of the VII International Symposium on Viral Hepatitis. Madrid, Spain, 25–27 January 1996. **J Viral Hepat** 1997;4 Suppl 1:1–130

Hepatitis G virus infection: clinical characteristics and response to interferon. Karayiannis P, et al. **J Viral Hepat** 1997 Jan;4(1):37–44

Histopathological aspects of viral hepatitis. Scheuer PJ, et al. **J Viral Hepat** 1996 Nov;3(6):277–83 (51 ref.)

Identification, prevalence and aspects of molecular biology of hepatitis G virus. Thomas HC, et al. **J Viral Hepat** 1997; 4 Suppl 1:51–4 (13 ref.)

GBV-C/HGV infection and aplastic anaemia [letter; comment] Kao JH, et al. **Lancet** 1996 Oct 12; 348(9033):1032–3. Comment on: Lancet 1996 Aug 17;348(9025):471–2. Comment on: Lancet 1996 Aug 17;348(9025):472.

HGV: hepatitis G virus or harmless G virus? Kew MC, et al. **Lancet** 1996 Dec 21–28;348 Suppl 2:sII10 (5 ref.)

Long-term persistence of hepatitis G virus in immunocompetent patients [letter; comment] Lefrere JJ, et al. **Lancet** 1996 Oct 26;348(9035):1174–5. Comment on: Lancet 1996 Sep 14;348(9029):751.

Risk of infection with hepatitis A, B or C, cytomegalovirus, varicella or measles among child care providers. Jackson LA, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):584–9

Biennial meet of the International Association for the Study of the Liver. Cape Town, 18–24 February 1996. Acharya SK. **Trop Gastroenterol** 1996 Jul–Sep;17(3):193–6

[How biochemistry, immunology and molecular biology contribute to the diagnosis, prevention and therapy of viral hepatitis] Hořejší J. **Vnitr Lek** 1996 Oct;42(10):661–4 **(Cze)**

[Viral hepatitis in the elderly] Marcus EL, et al. **Harefuah** 1997 Mar 2;132(5):341–6 (61 ref.) **(Heb)**

[Clinical features of acute hepatitis G] Hayashi S, et al. **Nippon Rinsho** 1997 Mar;55(3):613–6 (Eng. Abstr.) **(Jpn)**

[The evolution of th theory of chronic hepatitis: classification, nomenclature, diagnosis and treatment] Tsimmerman IS. **Klin Med (Mosk)** 1996;74(8):19–24 (33 ref.) **(Rus)**

[Viral hepatitides] L'vov DK. **Vestn Ross Akad Med Nauk** 1996;(6):25–31 (112 ref.) **(Rus)**

[The use of personal computers by virologists specializing in viral hepatitis] Savel'ev SI, et al. **Vopr Virusol** 1996 Jul–Aug;41(4):187–9 (Eng. Abstr.) **(Rus)**

[Contribution to the study of viral hepatitis E and G] Piédrola Angulo G. **An R Acad Nac Med (Madr)** 1996;113(3):629–42 (22 ref.) **(Spa)**

[Hepatitis G virus (HGV)] Berenguer M, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):529–33 (41 ref.) **(Spa)**

BLOOD

Serum laminin P1 in chronic viral hepatitis: correlations with liver histological activity and diagnostic value. Gabrielli GB, et al. **Clin Chim Acta** 1996 Aug 30;252(2):171–80

Clinical significance of serum hyaluronan in patients with chronic viral liver disease. Murawaki Y, et al. **J Gastroenterol Hepatol** 1996 May;11(5):459–65

Sequential study of serum glycoprotein fucosylation in acute hepatitis. Seta N, et al. **J Hepatol** 1997 Feb;26(2):265–71

Infection with GB virus C (GBV-C) in patients with fulminant hepatitis. Tameda Y, et al. **J Hepatol** 1996 Dec; 25(6):842–7

Detection of GB virus-C/hepatitis G virus RNA in serum by reverse transcription polymerase chain reaction. Bhardwaj B, et al. **J Med Virol** 1997 May;52(1):92–6

Hepatitis B virus with X gene mutation is associated with the majority of serologically "silent" non-b, non-c chronic hepatitis. Fukuda R, et al. **Microbiol Immunol** 1996; 40(7):481–8

Hepatitis G virus coinfection in hepatitis C virus-infected liver transplant recipients. Vargas HE, et al. **Transplantation** 1997 Sep 15;64(5):786–8

CLASSIFICATION

Viral hepatitis: know your D, E, F and Gs. Tepper MI, et al. **CMAJ** 1997 Jun 15;156(12):1735–8 (14 ref.) **(Eng, Fre)**

Exotic viruses and hepatitis. Paya CV. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S59–60

[Atypical hepatitis] Gioannini P, et al. **Minerva Gastroenterol Dietol** 1996 Sep;42(3):153–9 (Eng. Abstr.) **(Ita)**

[Pathology and classification of acute and chronic viral hepatitis] Vega-Ramos B. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S20–1 **(Spa)**

COMPLICATIONS

Acute hepatitis type C co-infected with GBV-C treated with interferon [letter] Suzuki H, et al. **Am J Gastroenterol** 1996 Dec;91(12):2651–2

Hepatitis G and mixed cryoglobulinemia [letter] Cacoub P, et al. **Ann Intern Med** 1997 Jun 15;126(12):1002

Influence of hepatitis G virus infection on the severity of liver disease and response to interferon-alpha in patients with chronic hepatitis C. Martinot M, et al. **Ann Intern Med** 1997 Jun 1;126(11):874–81

Effect of hepatitis G virus infection on chronic hepatitis C [see comments] Tanaka E, et al. **Ann Intern Med** 1996 Nov 1;125(9):740–3. Comment in: Ann Intern Med 1996 Nov 1;125(9):772–3.

Marrow transplantation for hepatitis-associated aplastic anemia: a follow-up of long-term survivors. Kiem HP, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):93–9

Hepatitis C and G virus infection and liver dysfunction after allogeneic bone marrow transplantation: results from a prospective study. Rodriguez-Iñigo E, et al. **Blood** 1997 Aug 1;90(3):1326–31

Hepatitis GBV-C and aplastic anaemia [letter; comment] Harrison P, et al. **Br J Haematol** 1997 Aug;98(2):495. Comment on: Br J Haematol 1997 Mar;96(4):864–7.

Hepatitis G virus co-infection does not alter the course of recurrent hepatitis C virus infection in liver transplantation recipients. Cotler SJ, et al. **Hepatology** 1997 Aug; 26(2):432–6

Hepatic stellate cell immunodetection and cirrhotic evolution of viral hepatitis in liver allografts. Guido M, et al. **Hepatology** 1997 Aug;26(2):310–4

Does hepatitis GB virus-C infection cause hepatocellular carcinoma in black Africans? Lightfoot K, et al. **Hepatology** 1997 Sep;26(3):740–2

Dermatologic disorders associated with viral hepatitis infections [see comments] Parsons ME, et al. **Int J Dermatol** 1996 Feb;35(2):77–81 (47 ref.). Comment in: Int J Dermatol 1997 Mar;36(3):237–8.

Cryptogenic organising pneumonitis in association with acute viral hepatitis. McNamara D, et al. **Ir J Med Sci** 1997 Apr–Jun;166(2):83–4

Coinfection of GB virus C with HIV-1 in Japan [letter] Shibayama T, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1997 Aug 1;15(4):319–20

Acute viral cholecystitis in viral hepatitis [letter; comment] Agrawal A. **J Assoc Physicians India** 1995 Feb;43(2):145–6 . Comment on: J Assoc Physicians India 1994 May;42(5):428.

Hepatitis associated with varicella infection in an immunocompetent adult [letter] Borum ML, et al. **J Clin Gastroenterol** 1996 Sep;23(2):165

Prevalence of hepatitis G viremia among healthy subjects, individuals with liver disease, and persons at risk for parenteral transmission. Feucht HH, et al. **J Clin Microbiol** 1997 Mar;35(3):767–8

Osteodystrophy in patients with chronic hepatitis and liver cirrhosis. Tsuneoka K, et al. **J Gastroenterol** 1996 Oct; 31(5):669–78

Co-transmission of hepatitis C and G viruses [letter] Cretel E, et al. **J Hepatol** 1997 Aug;27(2):426

Viral hepatitides and idiopathic (autoimmune) thrombocytopenic purpura. Is there any relationship? [letter] Dalekos GN, et al. **J Hepatol** 1996 Dec;25(6):1000–1

High prevalence and coinfection rate of hepatitis G and C infections in intravenous drug addicts. Diamantis I, et al. **J Hepatol** 1997 Apr;26(4):794–7

Clinical implications of GBV-C/HGV infection in patients with "HCV-related" chronic hepatitis. Francesconi R, et al. **J Hepatol** 1997 Jun;26(6):1165–72

Clinical presentation of GB-C virus infection in drug abusers with chronic hepatitis C. Goeser T, et al. **J Hepatol** 1997 Mar;26(3):498–502

Transmission of hepatitis G virus in HCV-infected couples: myth or reality? [letter] Halfon P, et al. **J Hepatol** 1997 Aug;27(2):427

GBV-C/HGV is not the major cause of autoimmune hepatitis. Heringlake S, et al. **J Hepatol** 1996 Dec; 25(6):980–4

Poor association of GBV-C viremia with hepatocellular carcinoma. Kubo S, et al. **J Hepatol** 1997 Jul;27(1):91–5

Hepatitis G virus infection in chronic hepatitis C: frequency, features and response to interferon therapy. Sáiz JC, et al. **J Hepatol** 1997 Apr;26(4):787–93

Persistence and clinical significance of hepatitis G virus infections in injecting drug users. Thomas DL, et al. **J Infect Dis** 1997 Sep;176(3):586–92

Infection with GB virus C in patients with chronic liver disease. Sugai Y, et al. **J Med Virol** 1997 Mar;51(3):175–81

GB virus infection in patients with oral cancer and oral lichen planus. Nagao Y, et al. **J Oral Pathol Med** 1997 Mar; 26(3):138–41

Lack of evidence for hepatitis G virus replication in the livers of patients coinfected with hepatitis C and G viruses. Laskus T, et al. **J Virol** 1997 Oct;71(10):7804–6

Hepatitis G infection [letter; comment] Goedert JJ, et al. **N Engl J Med** 1997 Jul 24;337(4):277. Comment on: N Engl J Med 1997 Mar 13;336(11):741–6. Comment on: N Engl J Med 1997 Mar 13;336(11):747–54. Comment on: N Engl J Med 1997 Mar 13;336(11):795–6.

Hepatitis-associated aplastic anemia [letter; comment] Kiem HP, et al. **N Engl J Med** 1997 Aug 7;337(6):424–5. Comment on: N Engl J Med 1997 Apr 10;336(15):1059–64.
Hepatocellular carcinoma and infections with multiple hepatitis viruses. Brunetto MR, et al.
Princess Takamatsu Symp 1995;25:61–6
Incidence and natural history of chemically defined varicella-zoster virus hepatitis in children and adolescents. Feldman S, et al. **Scand J Infect Dis** 1997;29(1):33–6
Fulminant hepatic failure: pediatric aspects. Bhaduri BR, et al. **Semin Liver Dis** 1996 Nov;16(4):349–55 (50 ref.)
Classification, etiology, and considerations of outcome in acute liver failure. Williams R. **Semin Liver Dis** 1996 Nov; 16(4):343–8 (39 ref.)
Hepatitis G viral RNA in serum and in peripheral blood mononuclear cells and its relation to HCV-RNA in patients with clotting disorders. Sheng L, et al.
Thromb Haemost 1997 May;77(5):868–72
Hepatitis G virus coinfection in hepatitis C virus-infected liver transplant recipients. Vargas HE, et al.
Transplantation 1997 Sep 15;64(5):786–8
Influence of associated viral hepatitis status on recurrence of hepatocellular carcinoma after hepatectomy. Ko S, et al. **World J Surg** 1996 Oct;20(8):1082–6
[Viral liver cirrhosis: natural course, pathogenesis and clinical implications of the complications] Gentilini P, et al.
Ann Ital Med Int 1996 Oct;11 Suppl 2:23S–29S (Eng. Abstr.) **(Ita)**
[A case of ventricular septal defect closure in patient with cytomegalo virus hepatitis] Taketani S, et al.
Nippon Kyobu Geka Gakkai Zasshi 1996 Dec;44(12):2212–5 (Eng. Abstr.) **(Jpn)**
[Interferon treatment for hepatitis G virus infection in patients with chronic hepatitis C] Baba T, et al.
Nippon Rinsho 1997 Mar;55(3):625–30 (Eng. Abstr.) **(Jpn)**
[HGV is rare but possible causative agent of non-A non-B fulminant hepatitis] Ishikawa K, et al. **Nippon Rinsho** 1997 Mar;55(3):621–4 (Eng. Abstr.) **(Jpn)**
[Hemolytic anemia in association with viral hepatitis] Kanematsu T, et al. **Nippon Rinsho** 1996 Sep;54(9):2539–44 (19 ref.) (Eng. Abstr.) **(Jpn)**
[Coinfection of hepatitis C virus and hepatitis G virus in patients with chronic hepatitis] Oshita M, et al.
Nippon Rinsho 1997 Mar;55(3):617–20 (4 ref.) (Eng. Abstr.) **(Jpn)**
[A case of chronic GBV-C hepatitis with diabetes mellitus which developed pure red cell aplasia] Kaneko T, et al.
Nippon Shokakibyo Gakkai Zasshi 1997 Feb;94(2):133–8 **(Jpn)**
[Guillain-Barré syndrome with high titers of anti-GM2 and anti-GalNAc-GD1a antibody following cytomegalovirus hepatitis] Shimoya K, et al. **Rinsho Shinkeigaku** 1997 Feb; 37(2):106–10 (Eng. Abstr.) **(Jpn)**
[Interferon treatment in a patient with subclinical hypothyroidism (letter)] Sánchez Ayuso FJ.
Med Clin (Barc) 1997 Mar 1;108(8):314 **(Spa)**

DIAGNOSIS

Progress in diagnosis of viral hepatitis A, B, C, D and E. Kurstak E, et al. **Acta Virol** 1996 Apr;40(2):107–15 (73 ref.)
Management of chronic viral hepatitis. Vail BA.
Am Fam Physician 1997 Jun;55(8):2749–56, 2759–61 (28 ref.)
Viral serology and detection. Greer S, et al.
Baillieres Clin Gastroenterol 1995 Dec;9(4):689–721 (110 ref.)
Fatal hepatic necrosis in a neonate with echovirus 20 infection: use of the polymerase chain reaction to detect enterovirus in liver tissue. Chambon M, et al.
Clin Infect Dis 1997 Mar;24(3):523–4
Herpes simplex virus hepatitis: case report and review. Kaufman B, et al. **Clin Infect Dis** 1997 Mar;24(3):334–8 (55 ref.)
Cost-effectiveness of screening blood donors for hepatitis C and non-A, non-B, non-C hepatitis. The EATHIS Eco Research Group. European Acute Transfusion Hepatitis Interferon Study. Colin C, et al.
Eur J Clin Microbiol Infect Dis 1997 Mar;16(3):220–7
Herpes simplex hepatitis. Mantry P, et al.
Indian J Gastroenterol 1997 Jan;16(1):33–4
Infection with GB virus C in female prisoners who were drug abusers in Japan [letter] Yui K, et al. **Infection** 1996 Sep–Oct;24(5):392
Hepatitis delta and beyond [editorial] Newell AN, et al.
Int J STD AIDS 1997 Jul;8(7):413–5
The laboratory diagnosis of the hepatitis viruses. Waite J.
Int J STD AIDS 1996 Oct;7(6):400–7; quiz 408–9 (67 ref.)
Detection of the hepatitis G virus genome among injecting drug users, homosexual and bisexual men, and blood donors. Stark K, et al. **J Infect Dis** 1996 Dec;174(6):1320–3
Clinical and histological features of cytomegalovirus hepatitis in previously healthy adults. Kunno A, et al. **Liver** 1997 Jun;17(3):129–32
Diagnosis of viral hepatitis with a nonisotopic hybridization assay. Cariani E, et al. **Nucl Med Biol** 1994 Apr;21(3):441–7
Hepatitis GBV-C in South Africa [letter] Casteling A, et al. **S Afr Med J** 1997 Feb;87(2):182–3
Gestational herpes simplex virus hepatitis. Yaziji H, et al.
South Med J 1997 Mar;90(3):347–51 (34 ref.)
Cytomegalovirus hepatitis mimicking an acute exacerbation of chronic hepatitis B. Zuschke CA, et al.
South Med J 1996 Dec;89(12):1213–6
[Biological diagnosis of viral hepatitis. Recommendations and medical references. Agence Nationale pour le Développement de l'Evaluation Médicale]
Gastroenterol Clin Biol 1996;20(12):1099–123 (112 ref.) **(Fre)**
[New hepatitis viruses. Molecular biology and clinical aspects] Moradpour D, et al. **Internist (Berl)** 1996 Sep; 37(9):903–11 (46 ref.) **(Ger)**
[Current diagnosis of viral hepatitis] Blum HE.
Schweiz Rundsch Med Prax 1996 Nov 19;85(47):1502–6 (23 ref.) (Eng. Abstr.) **(Ger)**
[Diagnosis and therapy of chronic viral hepatitis] Heintges T, et al. **Z Gastroenterol** 1996 Jul;34(7):446–56 (127 ref.) (Eng. Abstr.) **(Ger)**
[Diagnostic criteria for Non-ABCDE hepatitis] Yatsuhashi H, et al. **Nippon Rinsho** 1997 Mar;55(3):523–9 (17 ref.) (Eng. Abstr.) **(Jpn)**
[Clinical significance of serum levels of human hepatocyte growth factor in patients with acute viral hepatitis] Naito Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Jul; 93(7):455–61 (Eng. Abstr.) **(Jpn)**
[Schistosomiasis and viral hepatitides: a review] Serufo JC, et al. **Rev Soc Bras Med Trop** 1997 Jul–Aug;30(4):313–22 (94 ref.) (Eng. Abstr.) **(Por)**
[Clinical significance of free hemoglobin in blood serum in viral hepatitis] Levina LD, et al. **Klin Lab Diagn** 1993 May–Jun;(3):23–5 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

The effect of polyunsaturated phosphatidyl choline in the treatment of acute viral hepatitis. Guan R, et al.
Aliment Pharmacol Ther 1995 Dec;9(6):699–703
Therapy for chronic viral hepatitis. Alvarez F.
Clin Invest Med 1996 Oct;19(5):381–8 (36 ref.)
Advances in antiviral therapy. Dwyer DE, et al.
Curr Opin Pediatr 1997 Feb;9(1):24–30 (36 ref.)
Thyroid abnormalities in chronic viral hepatitis and their relationship to interferon alfa therapy. Deutsch M, et al.
Hepatology 1997 Jul;26(1):206–10
Effect of interferon-alpha and ribavirin therapy on serum GB virus C/hepatitis G virus (GBV-C/HGV) RNA levels in patients chronically infected with hepatitis C virus and GBV-C/HGV. Lau JY, et al. **J Infect Dis** 1997 Aug; 176(2):421–6
Interferon-alpha for viral hepatitis. Jonas MM.
J Pediatr Gastroenterol Nutr 1996 Aug;23(2):93–106 (149 ref.)
Interferon-alpha does not cause significant cardiac dysfunction in patients with chronic active hepatitis. Kadayifci A, et al. **Liver** 1997 Apr;17(2):99–102
[Should recurrent Cytomegalovirus infections in patients with liver transplantation be treated?] Tarp BD, et al.
Ugeskr Laeger 1997 May 26;159(22):3413–6 (Eng. Abstr.) **(Dan)**
[Acquired cytomegalovirus infection in infants. A case successfully treated with ganciclovir] Dündaröz R, et al.
Presse Med 1997 Jun 21;26(21):1000–1 (Eng. Abstr.) **(Fre)**
[Foscarnet therapy for ganciclovir-refractory cytomegalovirus hepatitis in a patient who underwent bone marrow transplantation from an unrelated donor] Fujisaki T, et al. **Rinsho Ketsueki** 1997 Feb;38(2):142–5 (Eng. Abstr.) **(Jpn)**

ENZYMOLOGY

Hepatitis G virus RNA in the serum of patients with elevated gamma glutamyl transpeptidase and alkaline phosphatase: a specific liver disease? [corrected] [published erratum appears in J Viral Hepat 1997 Mar;4(2):143] Colombatto P, et al. **J Viral Hepat** 1996 Nov;3(6):301–6

EPIDEMIOLOGY

Serological survey of markers of infection with viral hepatitis among the Yukpa Amerindians from western Venezuela. Blitz-Dorfman L, et al. **Ann Trop Med Parasitol** 1996 Dec; 90(6):655–7
Migration: public health issues (polio, hepatitis A, hepatitis B, tuberculosis, diphtheria). Schwanig M. **Biologicals** 1997 Jun;25(2):187–93 (16 ref.)
Prevalence of hepatitis G virus in patients with aplastic anemia [letter] Kiem HP, et al. **Blood** 1997 Aug 1; 90(3):1335–6
High prevalence of hepatitis G virus in bone marrow transplant recipients and patients treated for acute leukemia. Skidmore SJ, et al. **Blood** 1997 May 15; 89(10):3853–6
Low prevalence of hepatitis G viraemia in haemophilia patients in Australia [letter] Baker R, et al.
Br J Haematol 1997 Mar;96(3):654–5
Prevalence of hepatitis G virus among intravenous drug abusers in Los Angeles. Fong TL, et al.
Clin Infect Dis 1997 Jul;25(1):165–6
Sexual behaviour and multiple infections in drug abusers. Coppola RC, et al. **Eur J Epidemiol** 1996 Oct;12(5):429–35
Hepatitis C and G virus infections in polytransfused children. Chung JL, et al. **Eur J Pediatr** 1997 Jul;156(7):546–9
GB virus-C/hepatitis G virus infection in an area endemic for viral hepatitis, chronic liver disease, and liver cancer. Kao JH, et al. **Gastroenterology** 1997 Apr;112(4):1265–70
Hepatitis G virus: identification, prevalence and unanswered questions. Karayiannis P, et al. **Gut** 1997 Mar;40(3):294–6
Evaluation of HBsAg carrier rate in acute viral hepatitis and high risk individuals using RPHA and ELISA. Korgaonkar A, et al. **Indian J Pathol Microbiol** 1996 Oct;39(4):277–80
Hepatitis viruses, schistosomal infection and liver cancer in Egypt [letter] Bedwani R, et al. **Int J Cancer** 1996 Nov 27;68(5):688–9
Prevalence of hepatitis G viremia among healthy subjects, individuals with liver disease, and persons at risk for parenteral transmission. Feucht HH, et al.
J Clin Microbiol 1997 Mar;35(3):767–8
High prevalence of hepatitis G virus after liver transplantation without apparent influence on long-term graft function. Haagsma EB, et al. **J Hepatol** 1997 Apr; 26(4):921–5
Prevalence and clinical and histological manifestation of hepatitis G/GBV-C infections in patients with elevated aminotransferases of unknown etiology. Sarrazin C, et al.
J Hepatol 1997 Aug;27(2):276–83
High prevalence of GB virus C/hepatitis G virus in healthy persons in Ho Chi Minh City, Vietnam. Brown KE, et al. **J Infect Dis** 1997 Feb;175(2):450–3
An ELISA for detection of antibodies to the E2 protein of GB virus C. Dille BJ, et al. **J Infect Dis** 1997 Feb; 175(2):458–61
Molecular investigation of GB virus C infection in hemophiliacs in Japan. Kinoshita T, et al. **J Infect Dis** 1997 Feb;175(2):454–7
Prevalence and genotype of hepatitis G virus in Chinese professional blood donors and hepatitis patients. Wang HL, et al. **J Infect Dis** 1997 May;175(5):1229–33
GB virus C/hepatitis G virus infection in southern China. Wu RR, et al. **J Infect Dis** 1997 Jan;175(1):168–71
Acute sporadic hepatitis in the Republic of Yemen. Gunaid AA, et al. **J Med Virol** 1997 Jan;51(1):64–6
Prevalence and molecular epidemiology of GB virus C/hepatitis G virus infection in Mongolia. Kondo Y, et al. **J Med Virol** 1997 Jun;52(2):143–8
Hepatitis C virus genotypes in different regions of the former Soviet Union (Russia, Belarus, Moldova, and Uzbekistan). Viazov S, et al. **J Med Virol** 1997 Sep;53(1):36–40
Prevalence and risk factor analysis of GBV-C/HGV infection in prostitutes. Wu JC, et al. **J Med Virol** 1997 May;52(1):83–5
High prevalence of hantavirus infection in a group of Chinese patients with acute hepatitis of unknown aetiology. Meng G, et al. **J Viral Hepat** 1997 Jul;4(4):231–4
Hepatitis G virus infection in hemodialysis patients. Sampietro M, et al. **Kidney Int** 1997 Jan;51(1):348–52
Hepatitis G virus in Karachi, Pakistan [letter] [see comments] Moatter T, et al. **Lancet** 1996 Nov 9;348(9037):1318–9. Comment in: Lancet 1997 Jan 18;349(9046):207.
Hepatitis G virus in India [letter] Panda SK, et al.
Lancet 1996 Nov 9;348(9037):1319
Prevalence of hepatitis G virus in Queensland blood donors. Moaven LD, et al. **Med J Aust** 1996 Oct 7;165(7):369–71
Hepatitis G virus and post-transplantation hepatitis [letter] Belli LS, et al. **N Engl J Med** 1996 Oct 31;335(18):1394–5
Hepatitis G virus infection in haemodialysed patients: epidemiology and clinical relevance. Cornu C, et al.
Nephrol Dial Transplant 1997 Jul;12(7):1326–9
Hepatitis G virus infection in chronic dialysis patients and kidney transplant recipients. Fabrizi F, et al.
Nephrol Dial Transplant 1997 Aug;12(8):1645–51
Hepatitis G virus infection in a haemodialysis unit: prevalence and clinical implications. Forns X, et al.
Nephrol Dial Transplant 1997 May;12(5):956–60
GB virus C and hepatitis C virus infections in hemodialysis patients in eight Japanese centers. Watanabe T, et al.
Nephron 1997;76(2):171–5
Viral hepatitis in the Bhutanese population: preliminary results of a seroepidemiological investigation. Da Villa G, et al. **Res Virol** 1997 Mar-Apr;148(2):115–7
Viral hepatitis: control, seroepidemiology and surveillance. Hall AJ. **Trans R Soc Trop Med Hyg** 1996 Jan–Feb; 90(1):1–2
Infection with hepatitis G virus and its strain variant, the GB agent (GBV-C), among blood donors in Japan [see comments] Yoshikawa A, et al. **Transfusion** 1997 Jun; 37(6):657–63. Comment in: Transfusion 1997 Jun;37(6):569–72.
GB virus C infection in patients with chronic hepatitis B and C before and after liver transplantation. Berg T, et al. **Transplantation** 1996 Sep 27;62(6):711–4
High prevalence of GB virus-C/hepatitis G virus infection in liver transplant recipients. Dickson RC, et al.
Transplantation 1997 Jun 15;63(11):1695–7
Prevalence of hepatitis G virus infection in kidney transplant recipients. Dussol B, et al. **Transplantation** 1997 Aug 15; 64(3):537–9
GB virus C (GBV-C)/hepatitis G virus (HGV) infection among intravenous drug users in Japan. Noguchi S, et al.
Virus Res 1997 Jun;49(2):155–62
GB virus C/hepatitis G virus infection among Korean patients with liver diseases and general population. Park YM, et al. **Virus Res** 1997 May;48(2):185–92
[A serologic and epidemiologic survey on 150 cases with acute viro-hepatitis] Wu WX, et al.
Chung Hua Liu Hsing Ping Hsueh Tsa Chih 1996 Jun; 17(3):152–4 (Eng. Abstr.) **(Chi)**
[An analysis of CMV infection in 115 cases with viral hepatitis] Shen L, et al.

Chung Hua Yu Fang I Hsueh Tsa Chih 1996 May; 30(3):157–9 (Eng. Abstr.) **(Chi)**

[Hepatitis G virus infection: the epidemiological aspects and clinical relevance] Berg T, et al. **Dtsch Med Wochenschr** 1997 Feb 28;122(9):268–74 (53 ref.) **(Ger)**

[A statistical epidemiological study of a possible correlation between serum transaminase levels and viral hepatic pathology markers and lichen planus orale] Serpico R, et al. **Minerva Stomatol** 1997 Mar;46(3):97–102 (Eng. Abstr.) **(Ita)**

[Non-A–E acute and chronic hepatitis in Japan] Kobayashi M, et al. **Nippon Rinsho** 1997 Mar;55(3):530–4 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Infection with hepatitis GB virus C in intravenous drug abusers with type C chronic liver diseases] Kojima M, et al. **Nippon Rinsho** 1997 Mar;55(3):549–53 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Epidemiology of hepatitis G virus infection in Japan] Nakatsuji Y, et al. **Nippon Rinsho** 1997 Mar;55(3):604–8 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Frequency of hepatitis GB virus C in patients on maintenance hemodialysis] Shimizu M, et al. **Nippon Rinsho** 1997 Mar;55(3):545–8 (13 ref.) (Eng. Abstr.) **(Jpn)**

[An epidemiological study of HGV infection in an epidemic area of HCV infection in Japan] Shinzawa H, et al. **Nippon Rinsho** 1997 Mar;55(3):609–12 (Eng. Abstr.) **(Jpn)**

[HGBV-C infection in patients with chronic liver disease] Sugai Y, et al. **Nippon Rinsho** 1997 Mar;55(3):564–8 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Detection of HGBV-C genome in patients with fulminant hepatitis in Japan—using stored serum of 44 cases for last 25 years] Tameda Y, et al. **Nippon Rinsho** 1997 Mar; 55(3):569–76 **(Jpn)**

[GB virus C/hepatitis G virus infection in patients with chronic non-B, non-C hepatitis] Tanaka E. **Nippon Rinsho** 1997 Mar;55(3):559–63 (11 ref.) (Eng. Abstr.) **(Jpn)**

[Hepatitis GB virus C infection in Japanese hemophiliacs with persistent hepatitis C virus infection] Toyoda H, et al. **Nippon Rinsho** 1997 Mar;55(3):554–8 (Eng. Abstr.) **(Jpn)**

[Viral hepatitis non-B in 1995] Szata W. **Przegl Epidemiol** 1997;51(1–2):135–8 **(Pol)**

[The epidemiological characteristics and laboratory diagnosis of viral hepatitides among the Federal troops on the territory of the Chechen Republic] Ogarkov PI, et al. **Voen Med Zh** 1996 Aug;317(8):48–55, 80 (Eng. Abstr.) **(Rus)**

[Infection by hepatitis virus among the indigenous populations of South America: a review of the problem] Echevarría JM, et al. **Invest Clin** 1996 Sep;37(3):191–200 (22 ref.) (Eng. Abstr.) **(Spa)**

[Epidemiology of viral hepatitis (editorial)] Soriano V, et al. **Rev Clin Esp** 1997 Apr;197(4):215–9 **(Spa)**

ETIOLOGY

Detection of hepatitis G virus from serum and liver of a patient with long-term liver dysfunction after autologous bone marrow transplantation. Tomás JF, et al. **Bone Marrow Transplant** 1997 May;19(10):1053–7

Prevalence and clinical significance of hepatitis G virus infection in adult beta-thalassaemia major patients. Sampietro M, et al. **Br J Haematol** 1997 Jun;97(4):904–7

Fulminant hepatitis during herpes simplex virus infection in apparently immunocompetent adults: report of two cases and review of the literature. Farr RW, et al. **Clin Infect Dis** 1997 Jun;24(6):1191–4

Hepatitis G virus in intravenous immunoglobulin [letter; comment] Chen PJ, et al. **Gastroenterology** 1996 Nov; 111(5):1399–400. Comment on: Gastroenterology 1996 Apr;110(4):1120–6.

The role of hepatitis G virus infection in patients with acute posttransfusion hepatitis in Taiwan. Hwang SJ, et al. **Gastroenterology** 1997 Apr;112(4):1260–4

Distribution of hepatitis G viremia and antibody response to recombinant proteins with special regard to risk factors in 709 patients. Feucht HH, et al. **Hepatology** 1997 Aug; 26(2):491–4

Hepatitis G virus in patients with cryptogenic liver disease undergoing liver transplantation. Pessoa MG, et al. **Hepatology** 1997 May;25(5):1266–70

Infectious mononucleosis hepatitis: report of two patients. Ghosh A, et al. **Indian J Gastroenterol** 1997 Jul;16(3):113–4

Hepatitis delta and beyond [editorial] Newell AN, et al. **Int J STD AIDS** 1997 Jul;8(7):413–5

Impact of pretransplantation GB virus C infection on the outcome of renal transplantation. Murthy BV, et al. **J Am Soc Nephrol** 1997 Jul;8(7):1164–73

High prevalence of hepatitis G virus after liver transplantation without apparent influence on long-term graft function. Haagsma EB, et al. **J Hepatol** 1997 Apr; 26(4):921–5

Human papillomavirus (HPV)-associated neonatal giant cell hepatitis (NGCH). Drut R, et al. **Pediatr Pathol Lab Med** 1996 May–Jun;16(3):403–12

Hepatitis HGV/GBV-C viremia in renal transplant recipients. Lustig S, et al. **Transplant Proc** 1997 Sep; 29(6):2694–5

Hepatitis GBV-C viremia in liver, heart, and bone marrow recipients. Zemel R, et al. **Transplant Proc** 1997 Sep; 29(6):2653–4

Transfusion-related hepatitis G virus infections in heart transplant recipients [letter] Wolff D, et al. **Transplantation** 1996 Dec 15;62(11):1697–8

[Pathology and pathogenesis of viral hepatitis] Schaff Z, et al. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1459–62 (25 ref.) (Eng. Abstr.) **(Hun)**

[Post-transfusion infections] Takano S. **Nippon Naika Gakkai Zasshi** 1996 Jun 10;85(6):829–33 (5 ref.) **(Jpn)**

[The pathogenetic role of a natural inhibiting factor in acute and chronic liver diseases of viral etiology] Frolov VM, et al. **Lik Sprava** 1996 Jul–Sep;(7–9):84–6 (Eng. Abstr.) **(Rus)**

[Cholestasis hepatitis, meningoencephalitis and pneumonitis by measles in a young adult (letter)] Ripoll MM, et al. **Enferm Infecc Microbiol Clin** 1997 Feb;15(2):116–7 **(Spa)**

[Cytomegalovirus infection as a cause of granulomatous hepatitis in an immunocompetent patient] Diego Lorenzo A, et al. **Rev Esp Enferm Dig** 1996 Apr;88(4):295–7 (Eng. Abstr.) **(Spa)**

GENETICS

High prevalence of GB virus C/hepatitis G virus in healthy persons in Ho Chi Minh City, Vietnam. Brown KE, et al. **J Infect Dis** 1997 Feb;175(2):450–3

Molecular investigation of GB virus C infection in hemophiliacs in Japan. Kinoshita T, et al. **J Infect Dis** 1997 Feb;175(2):454–7

Detection of GB virus-C/hepatitis G virus RNA in serum by reverse transcription polymerase chain reaction. Bhardwaj B, et al. **J Med Virol** 1997 May;52(1):92–6

Infection with GB virus C/hepatitis G virus in Brazilian hemodialysis and hepatitis patients and asymptomatic individuals. Lampe E, et al. **J Med Virol** 1997 May; 52(1):61–7

HISTORY

[Viral hepatitis through time] Aguirre García J. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S12–7 **(Spa)**

[Diagnosis of viral hepatitis in Mexico: a trip through time] Lisker Melman M, et al. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 1):S21–3 **(Spa)**

IMMUNOLOGY

Immunopathogenesis of viral hepatitis. Rehermann B. **Baillieres Clin Gastroenterol** 1996 Sep;10(3):483–500 (92 ref.)

Extrahepatic immunologic features of chronic viral hepatitis. Czaja AJ. **Dig Dis** 1997 May–Jun;15(3):125–44 (109 ref.)

Adhesion molecules in viral hepatitis. Volpes R. **Hepatogastroenterology** 1996 Sep–Oct;43(11):1106–8 (17 ref.)

Clonotypic analysis of T cells in patients with autoimmune and viral hepatitis. Tanaka A, et al. **Hepatology** 1997 May; 25(5):1070–6

An ELISA for detection of antibodies to the E2 protein of GB virus C. Dille BJ, et al. **J Infect Dis** 1997 Feb; 175(2):458–61

METABOLISM

Pyridinoline collagen cross-links in patients with chronic viral hepatitis and cirrhosis. Hayasaka A, et al. **J Hepatol** 1996 Jun;24(6):692–8

Reduced thyroidal uptake of inorganic iodine in liver cirrhosis. Sakurabayashi S, et al. **J Med** 1996; 27(3–4):193–204

Neurohumoral systems in patients with cirrhosis. Monte JC, et al. **Ren Fail** 1997 Mar;19(2):335–42

[The effect of tumor necrosis factor alpha on hepatic necrosis in viral hepatitis] Yu Y, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Jan;35(1):28–31 (Eng. Abstr.) **(Chi)**

MICROBIOLOGY

Sequence characterization of the 5' noncoding region of GB virus C/hepatitis G virus. Ding M, et al. **Biochem Biophys Res Commun** 1997 Feb 24;231(3):606–9

MORTALITY

Case fatality rate of acute hepatitis in Italy: results from a 10 year surveillance. Stroffolini T, et al. **Scand J Infect Dis** 1997;29(1):87–9

Selection of prognostic factors of acute hepatitis type non-A, non-B for patient listing for liver transplantation. Kumashiro R, et al. **Transplantation** 1997 Aug 15; 64(3):418–21

PATHOLOGY

Histopathologic impact of GB virus C infection on chronic hepatitis C. Bralet MP, et al. **Gastroenterology** 1997 Jan; 112(1):188–92

Non-alcoholic steatohepatitis and GB virus-C/hepatitis G virus infection: is there a casual relationship? [editorial; comment] Kiyosawa K. **Intern Med** 1997 Apr;36(4):236–7 . Comment on: Intern Med 1997 Apr;36(4):283–8.

Noninvasive determination of liver collagen content in chronic hepatitis. Multivariate regression modeling with blood chemical parameters as variables. Takamatsu S, et al. **J Gastroenterol** 1997 Jun;32(3):355–60

Human papillomavirus (HPV)-associated neonatal giant cell hepatitis (NGCH). Drut R, et al. **Pediatr Pathol Lab Med** 1996 May–Jun;16(3):403–12

Researches on viral hepatitis markers correlated with pathomorphological and clinical aspects in chronic hepatitis. Brehar-Cioflec D, et al. **Rom J Virol** 1995 Jul–Dec;46(3–4):107–13

[Advances in the pathological classification of viral hepatitis (editorial)] Wang T, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Apr;25(2):67–9 (Eng. Abstr.) **(Chi)**

[Pathology and classification of acute and chronic viral hepatitis] Vega-Ramos B. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S20–1 **(Spa)**

PHYSIOPATHOLOGY

Prevalence and clinical and histological manifestation of hepatitis G/GBV-C infections in patients with elevated aminotransferases of unknown etiology. Sarrazin C, et al. **J Hepatol** 1997 Aug;27(2):276–83

Comparison between sporadic cytomegalovirus hepatitis and Epstein-Barr virus hepatitis in previously healthy adults. Watanabe S, et al. **Liver** 1997 Apr;17(2):63–9

Researches on viral hepatitis markers correlated with pathomorphological and clinical aspects in chronic hepatitis. Brehar-Cioflec D, et al. **Rom J Virol** 1995 Jul–Dec;46(3–4):107–13

PREVENTION & CONTROL

Prophylaxis of acute viral hepatitis by immune serum globulin, hepatitis B vaccine, and health education: a sixteen year study of Japan overseas cooperation volunteers. Ohara H, et al. **Am J Trop Med Hyg** 1997 Jan; 56(1):76–9

DNA vaccines and viral hepatitis: are we going around in circles? [editorial; comment] Koziel MJ, et al. **Gastroenterology** 1997 Apr;112(4):1410–4. Comment on: Gastroenterology 1997 Apr;112(4):1307–20. Comment on: Gastroenterology 1997 Apr;112(4):1321–30.

Universal precautions and anaesthetists: time for a rethink? [comment] Kerridge RK. **Med J Aust** 1997 Feb 3; 166(3):142. Comment on: Med J Aust 1997 Feb 3;166(3):138–40.

Universal precautions and anaesthetists: personalising the message [comment] Phillips GD. **Med J Aust** 1997 Feb 3;166(3):141. Comment on: Med J Aust 1997 Feb 3;166(3):138–40.

Vaccines to prevent viral hepatitis. Lemon SM, et al. **N Engl J Med** 1997 Jan 16;336(3):196–204 (117 ref.)

Viral hepatitis prophylaxis. Carrilho FJ, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct; 51(5):203–10 (85 ref.)

Viral hepatitis: control, seroepidemiology and surveillance. Hall AJ. **Trans R Soc Trop Med Hyg** 1996 Jan–Feb; 90(1):1–2

Declining value of alanine aminotransferase in screening blood donors: missed opportunities [letter; comment] Bettigole R. **Transfusion** 1996 Sep;36(9):847–8. Comment on: Transfusion 1995 Nov–Dec;35(11):903–10.

Preventing workers' hepatitis A, B, C, D, E, and G. Leistikow BN. **West J Med** 1996 Sep;165(3):139

[Possibilities and perspectives of the prevention of viral hepatitis] Fehér J, et al. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1482–6 (Eng. Abstr.) **(Hun)**

REHABILITATION

[Nondrug methods for correcting the immune system in the rehabilitative treatment of patients with a history of viral hepatitides] Belichenko TA. **Vopr Kurortol Fizioter Lech Fiz Kult** 1996 Sep–Oct;(5):46–9 (57 ref.) **(Rus)**

THERAPY

Management of chronic viral hepatitis. Vail BA. **Am Fam Physician** 1997 Jun;55(8):2749–56, 2759–61 (28 ref.)

Acute hepatitis type C co-infected with GBV-C treated with interferon [letter] Suzuki H, et al. **Am J Gastroenterol** 1996 Dec;91(12):2651–2

A practical guide to the use of interferons in the management of hepatitis virus infections. Saracco G, et al. **Drugs** 1997 Jan;53(1):74–85 (74 ref.)

Gene therapy for chronic viral hepatitis: ribozymes, antisense oligonucleotides, and dominant negative mutants. von Weizsäcker F, et al. **Hepatology** 1997 Aug;26(2):251–5 (72 ref.)

Responsiveness to interferon alpha treatment in patients with chronic hepatitis C coinfected with hepatitis G virus. Berg T, et al. **J Hepatol** 1996 Nov;25(5):763–8

A survey of adverse events in 11,241 patients with chronic viral hepatitis treated with alfa interferon. Fattovich G, et al. **J Hepatol** 1996 Jan;24(1):38–47

Hepatitis G virus infection in chronic hepatitis C: frequency, features and response to interferon therapy. Sáiz JC, et al. **J Hepatol** 1997 Apr;26(4):787–93

Seizures during alpha interferon therapy [see comments] Shakil AO, et al. **J Hepatol** 1996 Jan;24(1):48–51. Comment in: J Hepatol 1997 Apr;26(4):956–7.

Effect of interferon on GB virus C and hepatitis C virus in hepatitis patients with the co-infection. Nagayama R, et al. **J Med Virol** 1997 Jun;52(2):156–60

Jay Hoofnagle: soldiering on against viral hepatitis [news] Larkin M. **Lancet** 1997 Sep 27;350(9082):938

Hepatitis GB virus C [letter] Tomás JF, et al. **N Engl J Med** 1996 Oct 31;335(18):1393

How to manage the dialysis patient with chronic viral hepatitis who is considered for renal transplantation [editorial] Paparella M, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2122–4 (10 ref.)

Is treatment with interferon-alpha in renal transplant recipients still justified? [letter] Pohanka E, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1191–2

Interferon in viral liver diseases: pharmacological aspects. da Silva LC, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Sep–Oct;51(5):211–6 (33 ref.)

[Interferon treatment for hepatitis G virus infection in patients with chronic hepatitis C] Baba T, et al. **Nippon Rinsho** 1997 Mar;55(3):625–30 (Eng. Abstr.) **(Jpn)**

[Changes of serum GBV–C RNA levels under administration of interferon and cyclosporine for patients with GBV infected hepatitis] Fujikawa H, et al. **Nippon Rinsho** 1997 Mar;55(3):591–6 (26 ref.) (Eng. Abstr.) **(Jpn)**

[Plasmapheresis in preoperative care of children with chronic liver diseases associated with portal hypertension syndrome] Aleksandrov AE, et al. **Anesteziol Reanimatol** 1996 Nov–Dec;(6):52–4 (Eng. Abstr.) **(Rus)**

[The effectiveness of correcting adrenal and thyroid functions in viral hepatitis] Mavrodiĭ VM, et al. **Klin Med (Mosk)** 1996;74(2):28–30 **(Rus)**

[Interferons in the treatment of chronic viral hepatitides] Podymova SD, et al. **Ter Arkh** 1996;68(11):74–7 (52 ref.) **(Rus)**

TRANSMISSION

GB virus C infection and liver transplantation: increased risk of transfusion-transmitted infection [letter] Feucht HH, et al. **Blood** 1997 Mar 15;89(6):2223–4

Safety during sperm banking [letter] Bahadur G, et al. **Hum Reprod** 1997 Jan;12(1):198

Hepatitis in the obstetric patient. Dinsmoor MJ. **Infect Dis Clin North Am** 1997 Mar;11(1):77–91 (56 ref.)

Co-transmission of hepatitis C and G viruses [letter] Cretel E, et al. **J Hepatol** 1997 Aug;27(2):426

Transmission of hepatitis G virus in HCV-infected couples: myth or reality? [letter] Halfon P, et al. **J Hepatol** 1997 Aug;27(2):427

Transmission of GBV–C/HGV from drug-addicted mothers to their babies. Viazov S, et al. **J Hepatol** 1997 Jul; 27(1):85–90

Parenteral and sexual transmission of GB virus C and hepatitis C virus among human immunodeficiency virus-positive patients [letter] Fiordalisi G, et al. **J Infect Dis** 1997 Apr;175(4):1025–6

Genetic evidence for mother-to-infant transmission of hepatitis G virus. Fischler B, et al. **J Infect Dis** 1997 Jul; 176(1):281–5

GB virus–C/hepatitis G virus infection in prostitutes: possible role of sexual transmission. Kao JH, et al. **J Med Virol** 1997 Aug;52(4):381–4

Is hepatitis G virus transmitted sexually? [letter] Rubio A, et al. **JAMA** 1997 Feb 19;277(7):532–3

Infection with hepatitis G virus in immunoglobulin recipients [letter; comment] Berger A, et al. **Lancet** 1997 Jan 18; 349(9046):207. Comment on: Lancet 1996 Nov 16;348(9038):1352–5.

GB virus C transmission by blood products [letter; comment] Feucht HH, et al. **Lancet** 1997 Feb 8;349(9049):435. Comment on: Lancet 1996 Dec 14;348(9042):1626–9.

Infection with hepatitis G virus among recipients of plasma products [see comments] Jarvis LM, et al. **Lancet** 1996 Nov 16;348(9038):1352–5. Comment in: Lancet 1997 Jan 18;349(9046):206. Comment in: Lancet 1997 Jan 18;349(9046):206–7. Comment in: Lancet 1997 Jan 18;349(9046):207.

Blood-bank screening for hepatitis G [letter; comment] Kao JH, et al. **Lancet** 1997 Jan 18;349(9046):207. Comment on: Lancet 1996 Nov 9;348(9037):1318–9.

Infection with hepatitis G virus in immunoglobulin recipients [letter; comment] Lefrère JJ, et al. **Lancet** 1997 Jan 18; 349(9046):206. Comment on: Lancet 1996 Nov 16;348(9038):1352–5.

The incidence of transfusion-associated hepatitis G virus infection and its relation to liver disease [see comments] Alter HJ, et al. **N Engl J Med** 1997 Mar 13;336(11):747–54 . Comment in: N Engl J Med 1997 Mar 13;336(11):795–6. Comment in: N Engl J Med 1997 Jul 24;337(4):276–7. Comment in: N Engl J Med 1997 Jul 24;337(4):277.

Hepatitis GB virus C [letter] Yoshiba M, et al. **N Engl J Med** 1996 Oct 31;335(18):1392–3

Hepatitis G virus infection in a haemodialysis unit: prevalence and clinical implications. Forns X, et al. **Nephrol Dial Transplant** 1997 May;12(5):956–60

Prevalence of hepatitis G virus RNA in French blood donors and recipients [see comments] Loiseau P, et al. **Transfusion** 1997 Jun;37(6):645–50. Comment in: Transfusion 1997 Jun;37(6):569–72.

Prevalence of hepatitis G virus and its strain variant, the GB agent, in blood donations and their transmission to recipients [see comments] Roth WK, et al. **Transfusion** 1997 Jun;37(6):651–6. Comment in: Transfusion 1997 Jun;37(6):569–72.

Transfusion-transmitted hepatitis G virus following open heart surgery [letter] Shimizu M, et al. **Transfusion** 1996 Oct;36(10):937

Infection with hepatitis G virus and its strain variant, the GB agent (GBV–C), among blood donors in Japan [see comments] Yoshikawa A, et al. **Transfusion** 1997 Jun; 37(6):657–63. Comment in: Transfusion 1997 Jun;37(6):569–72.

The pathogenicity of hepatitis G [letter] Herschfus MS. **Transplantation** 1997 Feb 15;63(3):485

GB hepatitis agent in cadaver organ donors and their recipients. Murthy BV, et al. **Transplantation** 1997 Feb 15; 63(3):346–51

Transmission of GB virus C by blood transfusions during heart surgery. Shimizu M, et al. **Vox Sang** 1997;72(2):76–8

[Professional risk of viral infections (hepatitis A, B, C and AIDS)] Gérard C, et al. **Rev Med Liege** 1996 May; 51(5):341–7 **(Fre)**

[The problem of viral hepatitis in transplantation medicine] Tillmann HL, et al. **Internist (Berl)** 1996 Mar;37(3):240–9 (149 ref.) **(Ger)**

VIROLOGY

Hepatotropic viruses seen by clinicians. Zielińska W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):291–6 (27 ref.)

Plus- and minus-stranded hepatitis G virus RNA in liver tissue and in peripheral blood mononuclear cells. Saito S, et al. **Biochem Biophys Res Commun** 1997 Aug 18; 237(2):288–91

Prevalence of GBV–C/HGV, a novel 'hepatitis' virus, in patients with aplastic anaemia. Brown KE, et al. **Br J Haematol** 1997 May;97(2):492–6

Pathobiology and consequences of the discovery of the hepatitis G virus [editorial] Kew MC. **Eur J Clin Invest** 1997 Jul;27(7):541–2 (11 ref.)

GBV–C and HGV: a new hepatitis virus? McDonnell WM, et al. **Gastroenterology** 1996 Dec;111(6):1776–8

Hepatitis G virus co-infection in liver transplantation recipients with chronic hepatitis C and nonviral chronic liver disease. Fried MW, et al. **Hepatology** 1997 May; 25(5):1271–5

Detection of GBV–C RNA in patients with non-A–E fulminant hepatitis by reverse-transcription polymerase chain reaction. Kanda T, et al. **Hepatology** 1997 May; 25(5):1261–5

The 18th United States–Japan Joint Hepatitis Panel Meeting. Lemon SM, et al. **Hepatology** 1997 May;25(5):1287–91

GB virus C, hepatitis G virus, or human orphan flavivirus? [editorial] Theodore D, et al. **Hepatology** 1997 May; 25(5):1285–6

Etiology of sporadic acute and fulminant non-A, non-B viral hepatitis in north India. Kar P, et al. **Indian J Gastroenterol** 1997 Apr;16(2):43–5

HGV/HGBV–C, a new virus in the dialysis setting [editorial] Beccari M. **Int J Artif Organs** 1997 Jan;20(1):12–3 (10 ref.)

Non Hepatitis viruses in causation of acute sporadic non–A, non–B viral hepatitis. Prakash C, et al. **J Commun Dis** 1996 Sep;28(3):185–8

Molecular cloning and characterization of a GB virus C isolate from a patient with non-A–E hepatitis. Erker JC, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2713–20

Genetic heterogeneity of hepatitis G virus isolates from different parts of the world. Viazov S, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):577–81

Detection of hepatitis G virus (HGV) RNA: clinical characteristics of acute HGV infection. Yashina TL, et al. **J Infect Dis** 1997 Jun;175(6):1302–7

Prevalence studies of GB virus–C infection using reverse transcriptase-polymerase chain reaction. Dawson GJ, et al. **J Med Virol** 1996 Sep;50(1):97–103

High prevalence of GB virus C strains genetically related to strains with Asian origin in Nicaraguan hemophiliacs. González-Pérez MA, et al. **J Med Virol** 1997 Jun; 52(2):149–55

Amplification of GB virus–C/hepatitis G virus RNA with primers from different regions of the viral genome. Kao JH, et al. **J Med Virol** 1997 Apr;51(4):284–9

Infection with GB virus C/hepatitis G virus in Brazilian hemodialysis and hepatitis patients and asymptomatic individuals. Lampe E, et al. **J Med Virol** 1997 May; 52(1):61–7

Sequence and genomic organization of GBV–C: a novel member of the flaviviridae associated with human non-A–E hepatitis. Leary TP, et al. **J Med Virol** 1996 Jan; 48(1):60–7

Identification of GBV–C hepatitis G RNA in chronic hepatitis C patients. Schleicher S, et al. **J Med Virol** 1996 Sep;50(1):71–4

Infection with GB virus C (GBV–C) in patients with chronic liver disease or on maintenance hemodialysis in Indonesia. Tsuda F, et al. **J Med Virol** 1996 Jul;49(3):248–52

Hepatitis C virus genotypes in different regions of the former Soviet Union (Russia, Belarus, Moldova, and Uzbekistan). Viazov S, et al. **J Med Virol** 1997 Sep;53(1):36–40

Infection with GB virus C and hepatitis C virus in hemodialysis patients and blood donors in Beijing. Wang Y, et al. **J Med Virol** 1997 May;52(1):26–30

Detection of hepatitis G virus RNA in patients with hepatitis B, hepatitis C, and non-A–E hepatitis by RT–PCR using multiple primer sets. Zhang XH, et al. **J Med Virol** 1997 Aug;52(4):385–90

Hepatitis G virus RNA in the serum of patients with elevated gamma glutamyl transpeptidase and alkaline phosphatase: a specific liver disease? [corrected] [published erratum appears in J Viral Hepat 1997 Mar;4(2):143] Colombatto P, et al. **J Viral Hepat** 1996 Nov;3(6):301–6

A new hepatitis C virus-like flavivirus in patients with cryptogenic liver disease associated with elevated GGT and alkaline phosphatase serum levels. Colombatto P, et al. **J Viral Hepat** 1997;4 Suppl 1:55–60

The clinical significance of the detection of hepatitis GBV–C RNA in the serum of patients with fulminant, presumed viral, hepatitis. Haydon GH, et al. **J Viral Hepat** 1997 Jan; 4(1):45–9

Prevalence and disease association of hepatitis G virus infection in Japan. Nakatsuji Y, et al. **J Viral Hepat** 1996 Nov;3(6):307–16

Evaluation of four PCR systems amplifying different genomic regions for molecular diagnosis of GB virus C infections. Cantaloube JF, et al. **J Virol Methods** 1997 Mar;64(2):131–5

Association between fulminant hepatic failure and a strain of GBV virus C [see comments] Heringlake S, et al. **Lancet** 1996 Dec 14;348(9042):1626–9. Comment in: Lancet 1997 Feb 8;349(9049):435.

Hepatitis G virus infection [letter; comment] Karayiannis P, et al. **Lancet** 1997 Mar 29;349(9056):954. Comment on: Lancet 1997 Feb 1;349(9048):318–20.

Hepatitis G virus infection [letter; comment] Schleicher S, et al. **Lancet** 1997 Mar 29;349(9056):954–5. Comment on: Lancet 1997 Feb 1;349(9048):318–20.

Infection with hepatitis G virus in immunoglobulin recipients [letter; comment] Vento S, et al. **Lancet** 1997 Jan 18; 349(9046):206–7. Comment on: Lancet 1996 Nov 16;348(9038):1352–5.

Acute non-A–E hepatitis in the United States and the role of hepatitis G virus infection. Sentinel Counties Viral Hepatitis Study Team [see comments] Alter MJ, et al. **N Engl J Med** 1997 Mar 13;336(11):741–6. Comment in: N Engl J Med 1997 Mar 13;336(11):795–6. Comment in: N Engl J Med 1997 Jul 24;337(4):276–7. Comment in: N Engl J Med 1997 Jul 24;337(4):277.

Hepatitis G virus—a true hepatitis virus or an accidental tourist? [editorial; comment] [see comments] Miyakawa Y, et al. **N Engl J Med** 1997 Mar 13;336(11):795–6. Comment on: N Engl J Med 1997 Mar 13;336(11):741–6. Comment on: N Engl J Med 1997 Mar 13;336(11):747–54. Comment in: N Engl J Med 1997 Jul 24;337(4):277.

Hepatitis GB virus C [letter] Sampietro M, et al. **N Engl J Med** 1996 Oct 31;335(18):1392; discussion 1394

Viral hepatitis' G string. James DG. **QJM** 1996 Feb; 89(2):159–60

Cytomegalovirus hepatitis mimicking an acute exacerbation of chronic hepatitis B. Zuschke CA, et al. **South Med J** 1996 Dec;89(12):1213–6

The newly discovered non A–E hepatitis viruses. Songsivilai S, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar;27(1):75–9 (12 ref.)

Does the hepatitis G virus cause hepatitis? Loya F. **Tex Med** 1996 Dec;92(12):68–73 (23 ref.)

Acute viral hepatitis in Hanoi, Viet Nam. Corwin AL, et al. **Trans R Soc Trop Med Hyg** 1996 Nov–Dec;90(6):647–8

Hepatitis G virus infection in Japanese patients with chronic liver disease [letter] Shimoda A, et al. **Transfusion** 1997 Sep;37(9):985–6

GB hepatitis agent in cadaver organ donors and their recipients. Murthy BV, et al. **Transplantation** 1997 Feb 15; 63(3):346–51

Interpretation of serological markers of hepatitis viruses. Irshad M. **Trop Gastroenterol** 1995 Oct–Dec;16(4):4–10

Mutation rate of GB virus C/hepatitis G virus over the entire genome and in subgenomic regions. Nakao H, et al. **Virology** 1997 Jun 23;233(1):43–50

High prevalence of GB virus C/hepatitis G virus infection among the Jewish population in Uzbekistan. Kato T, et al. **Virus Res** 1997 Apr;48(1):81–7

GB virus C/hepatitis G virus infection among Japanese patients with chronic liver diseases and blood donors. Orito E, et al. **Virus Res** 1996 Dec;46(1–2):89–93

Sequence analysis of hepatitis GB virus C (GBV–C) isolates from 14 patients. Seipp S, et al. **Virus Res** 1996 Dec; 46(1–2):81–8

The alphabet soup of viral hepatitis: is G a new flavi(or) in the mix? [editorial; comment] Bonkovsky HL. **West J Med** 1997 Jul;167(1):50–1. Comment on: West J Med 1997 Jul;167(1):23–33.

Hepatitis G virus: is it a hepatitis virus? [see comments] Cheung RC, et al. **West J Med** 1997 Jul;167(1):23–33 (81 ref.). Comment in: West J Med 1997 Jul;167(1):50–1.

[Immunohistochemical detection of antigen of human cytomegalovirus in hepatocyte] Xiong Y, et al. **Hua Hsi I Ko Ta Hsueh Hsueh Pao** 1996 Mar;27(1):46–8 (Eng. Abstr.) **(Chi)**

[New hepatitis viruses (editorial)] Cohard M. **Gastroenterol Clin Biol** 1996;20(6–7):527–30 **(Fre)**

[In the alphabet of hepatitis: the G virus] Garnotel E, et al. **Med Trop (Mars)** 1997;57(1):15–22 (65 ref.) **(Fre)**

[New hepatitis viruses] Gerok W. **Schweiz Rundsch Med Prax** 1997 Jul 16;86(29–30):1160–2 (9 ref.) (Eng. Abstr.) **(Ger)**

[Epidemiology and clinical significance of the newly

discovered GB,G hepatitis viruses] Fehér J, et al. **Orv Hetil** 1997 Jan 5;138(1):3–6 (Eng. Abstr.) **(Hun)**

[Causal relationship between GBV–C and fulminant hepatitis] Inoue K, et al. **Nippon Rinsho** 1997 Mar;55(3):578–82 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Viral hepatitides from A to G and further] L'vov DK. **Zh Mikrobiol Epidemiol Immunobiol** 1997 Jan–Feb;(1):70–7 (102 ref.) **(Rus)**

[GBV–C agent/hepatitis G virus: a new hepatitis virus? (editorial)] Echevarría JM, et al. **Enferm Infecc Microbiol Clin** 1997 Apr;15(4):177–9 **(Spa)**

[Hepatitis F ... and other types?] Lisker Melman M. **Rev Gastroenterol Mex** 1995 Oct–Dec;60(4 Suppl 2):S57–8 **(Spa)**

HEPATITIS, VIRAL, NON–A, NON–B, ENTERICALLY–TRANSMITTED see **HEPATITIS E**

HEPATITIS, VIRAL, NON–A, NON–B, PARENTERALLY–TRANSMITTED see **HEPATITIS C**

HEPATITIS, VIRAL, VACCINES see **VIRAL HEPATITIS VACCINES**

HEPATITIS VIRUS, DUCK

GENETICS

cis–Acting sequences in addition to donor and acceptor sites are required for template switching during synthesis of plus–strand DNA for duck hepatitis B virus. Havert MB, et al. **J Virol** 1997 Jul;71(7):5336–44

Insertions within epsilon affect synthesis of minus–strand DNA before the template switch for duck hepatitis B virus. Jiang H, et al. **J Virol** 1997 Jul;71(7):5345–54

HEPATITIS VIRUS, HOMOLOGOUS SERUM see **HEPATITIS B VIRUS**

HEPATITIS VIRUS, INFECTIOUS see **HEPATOVIRUS**

HEPATITIS VIRUS, INFECTIOUS CANINE see **ADENOVIRUSES, CANINE**

HEPATITIS VIRUS, MARMOSET see **HEPATITIS VIRUSES**

HEPATITIS VIRUS, MOUSE see **GASTROENTERITIS VIRUS, MURINE**

HEPATITIS VIRUS, WOODCHUCK see **HEPATITIS B VIRUS, WOODCHUCK**

HEPATITIS VIRUSES

New hepatitis viruses. Heringlake S, et al. **J Hepatol** 1996 Aug;25(2):239–47 (73 ref.)

Proceedings of the VII International Symposium on Viral Hepatitis. Madrid, Spain, 25–27 January 1996. **J Viral Hepat** 1997;4 Suppl 1:1–130

[New hepatitis viruses (editorial)] Cohard M. **Gastroenterol Clin Biol** 1996;20(6–7):527–30 **(Fre)**

CLASSIFICATION

Hepatitis—how far down the alphabet? [editorial] Zuckerman JN. **J Clin Pathol** 1997 Jan;50(1):1–2

Interpretation of serological markers of hepatitis viruses. Irshad M. **Trop Gastroenterol** 1995 Oct–Dec;16(4):4–10

[Possibilities and perspectives of the prevention of viral hepatitis] Fehér J, et al. **Orv Hetil** 1997 Jun 1;138(22 Suppl 1):1482–6 (Eng. Abstr.) **(Hun)**

[Hepatitis viruses] Tameda Y. **Rinsho Byori** 1996 Sep; 44(9):838–46 (20 ref.) (Eng. Abstr.) **(Jpn)**

GENETICS

Polymerase chain reaction analysis for viral nucleic acids in acute sporadic hepatitis patients negative for serum hepatitis B surface antigen and antibodies to hepatitis C virus. Huo TI, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec; 58(6):379–84

Update hepatitis A–G. Blum HE. **Digestion** 1997;58 Suppl 1:33–6 (8 ref.)

Sequence and genomic organization of GBV–C: a novel member of the flaviviridae associated with human non–A–E hepatitis. Leary TP, et al. **J Med Virol** 1996 Jan; 48(1):60–7

[New hepatitis viruses. Molecular biology and clinical aspects] Moradpour D, et al. **Internist (Berl)** 1996 Sep; 37(9):903–11 (46 ref.) **(Ger)**

IMMUNOLOGY

Immunopathogenesis of viral hepatitis. Rehermann B. **Baillieres Clin Gastroenterol** 1996 Sep;10(3):483–500 (92 ref.)

A preliminary study on immune response to hepatitis E virus DNA vaccine in mice. Lu F, et al. **Chin Med J (Engl)** 1996 Dec;109(12):919–21

ISOLATION & PURIFICATION

Hepatotropic viruses seen by clinicians. Zielińska W, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(5–6):291–6 (27 ref.)

Viral serology and detection. Greer S, et al. **Baillieres Clin Gastroenterol** 1995 Dec;9(4):689–721 (110 ref.)

Hepatitis viruses, schistosomal infection and liver cancer in Egypt [letter] Bedwani R, et al. **Int J Cancer** 1996 Nov 27;68(5):688–9

Viral hepatitis' G string. James DG. **QJM** 1996 Feb; 89(2):159–60

[Evaluation of hepatitis virus marker tests in the screening for liver diseases] Katagami Y, et al. **Nippon Koshu Eisei Zasshi** 1996 Sep;43(9):864–70 **(Jpn)**

PATHOGENICITY

Hepatitis delta and beyond [editorial] Newell AN, et al. **Int J STD AIDS** 1997 Jul;8(7):413–5

PHYSIOLOGY

Lymphocyte recruitment following spinal cord injury in mice is altered by prior viral exposure. Schnell L, et al. **Eur J Neurosci** 1997 May;9(5):1000–7

HEPATITIS, WATER–BORNE see **HEPATITIS E**

HEPATOBLASTOMA

Association between hepatoblastoma and very low birth weight: a trend or a chance? [see comments] Ikeda H, et al. **J Pediatr** 1997 Apr;130(4):557–60. Comment in: J Pediatr 1997 Apr;130(4):516–7.

Hepatoblastoma and birth weight: too little, too big, or just right? [editorial; comment] Ross JA. **J Pediatr** 1997 Apr; 130(4):516–7. Comment on: J Pediatr 1997 Apr;130(4):557–60.

BLOOD

Timing and magnitude of decline in alpha–fetoprotein levels in treated children with unresectable or metastatic hepatoblastoma are predictors of outcome: a report from the Children's Cancer Group. Van Tornout JM, et al. **J Clin Oncol** 1997 Mar;15(3):1190–7

Mechanism of thrombocytosis in hepatoblastoma: a case report. Yamaguchi H, et al. **Pediatr Hematol Oncol** 1996 Nov–Dec;13(6):539–44

COMPLICATIONS

Aspergillar fungemia in an infant with hepatoblastoma. Marec–Bérard P, et al. **Clin Infect Dis** 1996 Dec; 23(6):1326–7

Hepatoblastoma in an adult with biliary obstruction and associated portal venous thrombosis. Kacker LK, et al. **HPB Surg** 1995;9(1):47–9

Hepatoblastoma in an infant with Beckwith–Wiedemann Syndrome. Tsai SY, et al. **J Formos Med Assoc** 1996 Feb; 95(2):180–3

CONGENITAL

Solid tumours in newborns and infants. Chakova L, et al. **Folia Med (Plovdiv)** 1996;38(3–4):39–43

DIAGNOSIS

Mixed hepatoblastoma in an adult—a case report and literature review. Ahn HJ, et al. **J Korean Med Sci** 1997 Aug;12(4):369–73 (23 ref.)

The role of subfractionation of alpha–fetoprotein in the treatment of pediatric surgical patients. Tsuchida Y, et al. **J Pediatr Surg** 1997 Mar;32(3):514–7

[Unusually intensively ossified hepatoblastoma (teratoid type) in a 1–year–old girl] Schlecht I, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Aug;165(2):201–3 **(Ger)**

DRUG THERAPY

Kinetics of primary tumor regression with chemotherapy: implications for the timing of surgery. Medary I, et al. **Ann Surg Oncol** 1996 Nov;3(6):521–5

Efficiency and toxicity of ifosfamide, cisplatin and doxorubicin in the treatment of childhood hepatoblastoma. Study Committee of the Cooperative Paediatric Liver Tumour Study HB89 of the German Society for Paediatric Oncology and Haematology. von Schweinitz D, et al. **Eur J Cancer** 1997 Jul;33(8):1243–9

Thymosin–alpha 1, but not interferon–alpha, specifically inhibits anchorage–independent growth of hepatitis B viral transfected HepG2 cells. Moshier JA, et al. **J Hepatol** 1996 Dec;25(6):814–20

Myelodysplasia in a child with Beckwith–Wiedemann syndrome previously treated for hepatoblastoma with multi–agent chemotherapy [letter] Koishi S, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):419–20

Improved long–term survival with preoperative chemotherapy for hepatoblastoma. Ehrlich PF, et al. **J Pediatr Surg** 1997 Jul;32(7):999–1002; discussion 1002–3

Hepatic tumors in children. Newman KD. **Semin Pediatr Surg** 1997 Feb;6(1):38–41 (30 ref.)

EPIDEMIOLOGY

Hepatoblastoma in adult age: a report of two cases. Bortolasi L, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):1073–8 (21 ref.)

ETIOLOGY

Hepatoblastoma in a 2–year–old child of a liver–transplanted mother. Roll C, et al. **Lancet** 1997 Jan 11;349(9045):103

GENETICS

Significance of extra copies of chromosome 20 and the long arm of chromosome 2 in hepatoblastoma. Swarts S, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):65–7

The first recurring chromosome translocation in hepatoblastoma: der(4)t(1;4)(q12;q34). Schneider NR, et al. **Genes Chromosomes Cancer** 1997 Aug;19(4):291–4

Hepatoblastoma and APC gene mutation in familial adenomatous polyposis. Giardiello FM, et al. **Gut** 1996 Dec; 39(96):867–9

Expression ratio of hepatocyte nuclear factor–1 to variant hepatocyte nuclear factor–1 in differentiation of hepatocellular carcinoma and hepatoblastoma. Ninomiya T, et al. **J Hepatol** 1996 Oct;25(4):445–53

Mutation analysis of p53 gene in childhood malignant solid tumors. Kusafuka T, et al. **J Pediatr Surg** 1997 Aug; 32(8):1175–80

Multiple hepatoblastomas associated with trisomy 18 in a 3–year–old girl. Teraguchi M, et al. **Pediatr Hematol Oncol** 1997 Sep–Oct;14(5):463–7

Hepatoblastoma in a child with trisomy 18: cytogenetics, liver anomalies, and literature review. Bove KE, et al. **Pediatr Pathol Lab Med** 1996 Mar–Apr;16(2):253–62 (39 ref.)

METABOLISM

Inhibitory effects of HepG2 cell–derived apolipoprotein A–I–containing lipoproteins on cholesteryl ester accumulation in macrophages. Kawano T, et al. **Biochemistry** 1997 Aug 12;36(32):9816–25

Peroxisome proliferation and beta–oxidation in Fao and MH1C1 rat hepatoma cells, HepG2 human hepatoblastoma cells and cultured human hepatocytes: effect of ciprofibrate. Duclos S, et al. **Eur J Cell Biol** 1997 Apr; 72(4):314–23

Oxidative modification of low–density lipoprotein by the human hepatoma cell line HepG2. Pico I, et al. **Free Radic Res** 1996 Oct;25(4):321–36

Hepatic lipase secretion in human hepatoblastoma cell line Hep G2 is not related to cellular cholesterol homeostasis. Berg AL, et al. **Horm Metab Res** 1995 Dec;27(12):523–6

Non–alpha–fetoprotein–producing anaplastic hepatoblastoma cell line [letter] Tsunoda Y, et al. **In Vitro Cell Dev Biol Anim** 1996 Apr;32(4):194–6

Hepatoblastoma in an adult associated with c–met proto–oncogene imbalance. Kuniyasu H, et al. **Pathol Int** 1996 Dec;46(12):1005–10

Expression of cell adhesion molecules and common acute lymphoblastic leukaemia antigen in hepatoblastoma. von Schweinitz D, et al. **Virchows Arch** 1996 Nov; 429(4–5):239–41

PATHOLOGY

Hepatoblastoma metastatic to brain: prolonged survival after multiple surgical resections of a solitary brain lesion. Robertson PL, et al. **J Pediatr Hematol Oncol** 1997 Mar–Apr;19(2):168–71

Successful transplantation of human hepatoblastoma into immunodeficient mice. Fuchs J, et al. **J Pediatr Surg** 1996 Sep;31(9):1241–6

[Hepatocyte growth factor in pediatric hepatoblastoma] von Schweinitz D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:37–40 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Surgicel mimics possible recurrence of hepatoblastoma [letter] Lang IM, et al. **Pediatr Radiol** 1997 Mar;27(3):288

SECONDARY

Significance of extra copies of chromosome 20 and the long arm of chromosome 2 in hepatoblastoma. Swarts S, et al. **Cancer Genet Cytogenet** 1996 Oct 1;91(1):65–7

SURGERY

Kinetics of primary tumor regression with chemotherapy: implications for the timing of surgery. Medary I, et al. **Ann Surg Oncol** 1996 Nov;3(6):521–5

Surgery for hepatoblastoma in children. Geiger JD. **Curr Opin Pediatr** 1996 Jun;8(3):276–82 (40 ref.)

Unresectable hepatic tumors in childhood and the role of liver transplantation. Achilleos OA, et al. **J Pediatr Surg** 1996 Nov;31(11):1563–7

Hepatic tumors in children. Newman KD. **Semin Pediatr Surg** 1997 Feb;6(1):38–41 (30 ref.)

[Surgical strategy in pediatric liver malignancies] von Schweinitz D, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1091–4 (Eng. Abstr.) **(Ger)**

[Hepatoblastoma today. Our experience] Martínez Ibáñez V,

HEPATOBLASTOMA

et al. **Cir Pediatr** 1996 Jan;9(1):10–2 (Eng. Abstr.) **(Spa)**

VIROLOGY

Transfection of HepG2 cells with infectious hepatitis C virus genome. Dash S, et al. **Am J Pathol** 1997 Aug;151(2):363–73

Inducible expression of human hepatitis B virus (HBV) in stably transfected hepatoblastoma cells: a novel system for screening potential inhibitors of HBV replication. Ladner SK, et al. **Antimicrob Agents Chemother** 1997 Aug; 41(8):1715–20

HEPATOCELLULAR CARCINOMA see **CARCINOMA, HEPATOCELLULAR**

HEPATOCYTE GROWTH FACTOR

The hepatocyte growth factor/scatter factor (HGF/SF) receptor, met, transduces a morphogenetic signal in renal glomerular fibromuscular mesangial cells. Kolatsi-Joannou M, et al. **J Cell Sci** 1995 Dec;108 (Pt 12):3703–14

ADMINISTRATION & DOSAGE

Intratracheal administration of hepatocyte growth factor/scatter factor stimulates rat alveolar type II cell proliferation in vivo. Panos RJ, et al.
Am J Respir Cell Mol Biol 1996 Nov;15(5):574–81

Preventive effect of hepatocyte growth factor on acute side effects of cyclosporin A in mice. Amaike H, et al.
Cytokine 1996 May;8(5):387–94

Influence of luminal hepatocyte growth factor on small intestine mucosa in vivo. Kato Y, et al. **J Surg Res** 1997 Jul 15;71(1):49–53

ANALYSIS

Scatter factor protein levels in human breast cancers: clinicopathological and biological correlations. Yao Y, et al. **Am J Pathol** 1996 Nov;149(5):1707–17

Hepatocyte growth factor. A cytokine mediating endothelial migration in inflammatory arthritis. Koch AE, et al.
Arthritis Rheum 1996 Sep;39(9):1566–75

Expression of scatter factor and c-met receptor in benign and malignant breast tissue. Jin L, et al. **Cancer** 1997 Feb 15;79(4):749–60

Association of immunoreactive hepatocyte growth factor with poor survival in resectable non-small cell lung cancer. Siegfried JM, et al. **Cancer Res** 1997 Feb 1;57(3):433–9

Decreased hepatocyte growth factor level by Wy-14,643, non-genotoxic hepatocarcinogen in F-344 rats. Motoki Y, et al. **Carcinogenesis** 1997 Jul;18(7):1303–9

Enhanced expression of hepatocyte growth factor/c-Met by myocardial ischemia and reperfusion in a rat model [see comments] Ono K, et al. **Circulation** 1997 Jun 3; 95(11):2552–8. Comment in: Circulation 1997 Jun 3;95(11):2471–2.

Levels of human hepatocyte growth factor (hHGF) in peritoneal fluid after partial hepatectomy. Miyata K, et al.
Hepatogastroenterology 1996 Nov-Dec;43(12):1594–600

Hepatocyte growth factor and c-MET in benign and malignant peripheral nerve sheath tumors. Rao UN, et al.
Hum Pathol 1997 Sep;28(9):1066–70

Urinary and tissue levels of scatter factor in transitional cell carcinoma of bladder [see comments] Rosen EM, et al. **J Urol** 1997 Jan;157(1):72–8. Comment in: J Urol 1997 Jan;157(1):83–4.

Immunohistochemical analysis of hepatocyte growth factor in human coronary atherectomy specimens: comparison with transforming growth factor beta isoforms. Ueda H, et al. **Virchows Arch** 1997 May;430(5):407–15

ANTAGONISTS & INHIBITORS

Interleukin 4 inhibits hepatocyte growth factor-induced invasion and migration of colon carcinomas. Uchiyama A, et al. **J Cell Biochem** 1996 Sep 15;62(4):443–53

BIOSYNTHESIS

Ontogeny of hepatocyte growth factor and c-met/hgf receptor in rat pancreas. Calvo EL, et al.
Biochem Biophys Res Commun 1996 Dec 4;229(1):257–63

Hepatocyte growth factor is a paracrine regulator of rat prostate epithelial growth. Kasai S, et al.
Biochem Biophys Res Commun 1996 Nov 12;228(2):646–52

Scatter factor/hepatocyte growth factor expression enhances human glioblastoma tumorigenicity and growth. Laterra J, et al. **Biochem Biophys Res Commun** 1997 Jun 27; 235(3):743–7

Heparin functions as a hepatotrophic factor by inducing production of hepatocyte growth factor. Matsumoto K, et al. **Biochem Biophys Res Commun** 1996 Oct 14; 227(2):455–61

Hepatocyte growth factor and its receptor c-met in multiple myeloma. Börset M, et al. **Blood** 1996 Nov 15; 88(10):3998–4004

Hepatocyte growth factor is constitutively produced by human bone marrow stromal cells and indirectly promotes hematopoiesis. Takai K, et al. **Blood** 1997 Mar 1; 89(5):1560–5

Involvement of hepatocyte growth factor in increased integrin expression on HepG2 cells triggered by adhesion to endothelial cells. Kawakami-Kimura N, et al.
Br J Cancer 1997;75(1):47–53

Overexpression and activation of hepatocyte growth factor/scatter factor in human non-small-cell lung carcinomas. Olivero M, et al. **Br J Cancer** 1996 Dec; 74(12):1862–8

IL-1 upregulates keratinocyte growth factor and hepatocyte growth factor mRNA and protein production by cultured stromal fibroblast cells: interleukin-1 beta expression in the cornea. Weng J, et al. **Cornea** 1997 Jul;16(4):465–71

Regulation and function of SF/HGF during migration of limb muscle precursor cells in chicken. Heymann S, et al. **Dev Biol** 1996 Dec 15;180(2):566–78

Preventing the loss of competence for neural induction: HGF/SF, L5 and Sox-2. Streit A, et al. **Development** 1997 Mar;124(6):1191–202

Production and activation of hepatocyte growth factor during the healing of rat gastric ulcers. Kinoshita Y, et al. **Digestion** 1997;58(3):225–31

Increased production of interleukin 1 beta and hepatocyte growth factor may contribute to foveolar hyperplasia in enlarged fold gastritis [see comments] Yasunaga Y, et al. **Gut** 1996 Dec;39(96):787–94. Comment in: Gut 1996 Dec;39(96):881–2.

Sequential increases in the intrahepatic expression of epidermal growth factor, basic fibroblast growth factor, and transforming growth factor beta in a bile duct ligated rat model of cirrhosis. Napoli J, et al. **Hepatology** 1997 Sep;26(3):624–33

Hepatocyte growth factor as a key to modulate anti-ulcer action of prostaglandins in stomach. Takahashi M, et al. **J Clin Invest** 1996 Dec 1;98(11):2604–11

Sparse distribution of hepatocyte growth factor-producing cells inside hepatocellular foci in rats treated with hepatocarcinogens. Imai T, et al. **Jpn J Cancer Res** 1997 Jul;88(7):615–8

Interleukin 1 induces an autocrine loop hepatocyte growth factor/c-Met in murine Kaposi-like spindle cells. Maier J, et al. **Oncogene** 1996 Sep 5;13(5):1009–15

Coexpression of hepatocyte growth factor and its receptor (c-met oncogene) in HGL4 glioblastoma cells. Shiota G, et al. **Oncology** 1996 Nov-Dec;53(6):511–6

Expression of hepatocyte growth factor/scatter factor and its receptor, MET, suggests roles in human embryonic organogenesis. Kolatsi-Joannou M, et al. **Pediatr Res** 1997 May;41(5):657–65

Enhanced survival of transgenic hepatocytes expressing hepatocyte growth factor in hepatocyte tissue engineering. Kim TH, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):858–60

Expansion of transplanted hepatocytes during liver regeneration. Yazigi NA, et al. **Transplantation** 1997 Sep 27;64(6):816–20

BLOOD

Human hepatocyte growth factor in alcoholic liver disease: a comparison with change in alpha-fetoprotein. Department of Veterans Affairs Cooperative Study Group 275. Mendenhall CL, et al. **Alcohol Clin Exp Res** 1996 Dec; 20(9):1625–30

Nephromegaly and elevated hepatocyte growth factor in children with biliary atresia. Tsau YK, et al.
Am J Kidney Dis 1997 Feb;29(2):188–92

Heparin induces rapid and remarkable elevation of hepatocyte growth factor/scatter factor during trans arterial embolization of renal cell carcinoma. Yamazaki H, et al. **Anticancer Res** 1997 Mar-Apr;17(2B):1435–7

Increase in the circulating level of hepatocyte growth factor in gastric cancer patients. Taniguchi T, et al.
Br J Cancer 1997;75(5):673–7

Clinical use of human hepatocyte growth factor in the early detection of HELLP syndrome. Iioka H.
Gynecol Obstet Invest 1996;41(2):103–5

Weight of resected liver is positively correlated with serum hHGF level. Miyata K, et al. **Hepatogastroenterology** 1996 Nov-Dec;43(12):1589–93

Induction of plasma hepatocyte growth factor in acute colitis of mice. Matsuno M, et al. **Inflamm Res** 1997 May; 46(5):166–7

Hepatocyte growth factor in assessment of acute pancreatitis: comparison with C-reactive protein and interleukin-6. Ueda T, et al. **J Gastroenterol** 1997 Feb;32(1):63–70

Hepatocyte proliferation and serum hepatocyte growth factor levels in patients with alcoholic hepatitis. Hillan KJ, et al. **J Hepatol** 1996 Apr;24(4):385–90

Hepatocyte growth factor and acute phase proteins in patients with chronic liver diseases. Shiota G, et al.
J Med 1995;26(5-6):295–308

Serum hepatocyte growth factor/scatter factor levels in small cell lung cancer patients. Takigawa N, et al.
Lung Cancer 1997 Jul;17(2-3):211–8

The activation of serum hepatocyte growth factor in acute renal failure [letter] Sugimura K, et al. **Nephron** 1997; 76(3):364–5

Production of hepatocyte growth factor is increased in chronic renal failure. Sugimura K, et al. **Nephron** 1997; 75(1):7–12

Blood hepatocyte growth factor levels in chronic renal failure patients [letter; comment] Tomiya T, et al.
Nephron 1996;73(4):735. Comment on: Nephron 1994;67(4):497–8.

Significant elevation of serum human hepatocyte growth factor levels in patients with acute pancreatitis. Ueda T, et al. **Pancreas** 1996 Jan;12(1):76–83

Relationship of hepatocyte growth factor in human umbilical vein serum to gestational age in normal pregnancies. Khan N, et al. **Pediatr Res** 1996 Mar;39(3):386–9

Study of hepatocyte growth factor in cyclosporine-induced nephropathy. Kasai S, et al. **Transplant Proc** 1997 May; 29(3):1724–5

Perioperative hepatocyte growth factor levels and early graft function in clinical liver transplantation. Suehiro T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):382–3

[Hepatocyte growth factor in pediatric hepatoblastoma] von Schweinitz D, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:37–40 (Eng. Abstr.) **(Ger)**

[The detection of factors that may promote the hepatocyte proliferation in the serum of a patient with crow-fukase syndrome] Fushimi T, et al. **Arerugi** 1995 Nov; 44(11):1311–6 (Eng. Abstr.) **(Jpn)**

[Hepatocyte growth factor(HGF) in lung tuberculosis] Imaizumi T. **Kekkaku** 1996 Oct;71(10):587–9 (Eng. Abstr.) **(Jpn)**

[Serum hepatocyte growth factor (HGF) in patients with inflammatory myopathies] Kadoya A, et al.
Nihon Rinsho Meneki Gakkai Kaishi 1996 Oct;19(5):488–97 (Eng. Abstr.) **(Jpn)**

[Clinical significance of serum levels of human hepatocyte growth factor in patients with acute viral hepatitis] Naito Y, et al. **Nippon Shokakibyo Gakkai Zasshi** 1996 Jul; 93(7):455–61 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Functional and biophysical characterization of recombinant human hepatocyte growth factor isoforms produced in Escherichia coli. Stahl SJ, et al. **Biochem J** 1997 Sep 15; 326 (Pt 3):763–72

Isolation and conformational analysis of fragment peptide corresponding to the heparin-binding site of hepatocyte growth factor. Aoyama H, et al. **Biochemistry** 1997 Aug 19;36(33):10286–91

GENETICS

Hepatocyte growth factor and its actions in growth plate chondrocytes. Grumbles RM, et al. **Bone** 1996 Sep; 19(3):255–61

Astroglial expression of hepatocyte growth factor and hepatocyte growth factor activator in human brain tissues. Yamada T, et al. **Brain Res** 1997 Jul 11;762(1-2):251–5

Expression of hepatocyte growth factor and its receptor c-met proto-oncogene in hepatocellular carcinoma. Ueki T, et al. **Hepatology** 1997 Apr;25(4):862–6

Antifibrogenic effect of a deletion variant of hepatocyte growth factor on liver fibrosis in rats. Yasuda H, et al.
Hepatology 1996 Sep;24(3):636–42

Concomitant expression of hepatocyte growth factor/scatter factor and the receptor c-MET in human myeloma cell lines. Borset M, et al. **J Biol Chem** 1996 Oct 4; 271(40):24655–61

Transcriptional regulation of the hepatocyte growth factor gene by the nuclear receptors chicken ovalbumin upstream promoter transcription factor and estrogen receptor. Jiang JG, et al. **J Biol Chem** 1997 Feb 14;272(7):3928–34

Differential regulation of keratinocyte growth factor and hepatocyte growth factor/scatter factor by different cytokines in human corneal and limbal fibroblasts. Li DQ, et al. **J Cell Physiol** 1997 Sep;172(3):361–72

Levels of hepatocyte growth factor and its messenger ribonucleic acid in uncomplicated pregnancies and those complicated by preeclampsia. Furugori K, et al.
J Clin Endocrinol Metab 1997 Aug;82(8):2726–30

Expression of HGF, its receptor c-met, c-myc, and albumin in cirrhotic and neoplastic human liver tissue. Ljubimova JY, et al. **J Histochem Cytochem** 1997 Jan;45(1):79–87

Expression of hepatocyte growth factor/scatter factor, its receptor, c-met, and tissue-type plasminogen activator during development of the murine olfactory system. Thewke DP, et al. **J Neurosci** 1996 Nov 1;16(21):6933–44

C-met proto-oncogene expression in benign and malignant human renal tissues. Pisters LL, et al. **J Urol** 1997 Sep;158(3 Pt 1):724–8

Chromosomal localization of rat hepatocyte growth factor (Hgf) and HGF receptor (Met) and characterization of HGF receptor cDNA. Wallenius VR, et al.
Mamm Genome 1997 Sep;8(9):661–7

Involvement of Livertine, a hepatocyte growth factor family member, in neural morphogenesis. Ruiz i Altaba A, et al.
Mech Dev 1996 Dec;60(2):207–20

A novel transcriptional regulatory region within the core promoter of the hepatocyte growth factor gene is responsible for its inducibility by cytokines via the C/EBP family of transcription factors. Jiang JG, et al.
Mol Cell Biol 1997 Oct;17(10):5758–70

Wild-type but not mutant p53 activates the hepatocyte growth factor/scatter factor promoter. Metcalfe AM, et al. **Nucleic Acids Res** 1997 Mar 1;25(5):983–6

Transcriptional regulation of the hepatocyte growth factor (HGF) gene by the Sp family of transcription factors. Jiang JG, et al. **Oncogene** 1997 Jun 26;14(25):3039–49

Rapid induction of hepatocyte growth factor mRNA after administration of gomisin A, a lignan component of shizandra fruits. Shiota G, et al.
Res Commun Mol Pathol Pharmacol 1996 Nov;94(2):141–6

Hepatocyte growth factor mRNA in human liver cirrhosis

as evidenced by in situ hybridization. Yamaguchi K, et al. **Scand J Gastroenterol** 1996 Sep;31(9):921–7

Hepatocyte growth factor/scatter factor expression and c-met in primary breast cancer. Nagy J, et al. **Surg Oncol** 1996 Feb;5(1):15–21

Expression of HGF mRNA in human rejecting kidney as evidenced by in situ hybridization. Yamaguchi K, et al. **Urol Res** 1996;24(6):349–54

[Gene expression of HGF and its receptor in experimental hepatomas] Luo Y, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Nov;76(11):822–5 (Eng. Abstr.) **(Chi)**

[Expression of HGF and c-met/HGF receptor mRNA in brains of normal rats and in phaeochromocytoma cells PC-12 of rats treated with NGF] Ukita H, et al. **No To Shinkei** 1997 Mar;49(3):252–9 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Dimerization of Fab fragments enables ready screening of phage antibodies that affect hepatocyte growth factor/scatter factor activity on target cells. Zaccolo M, et al. **Eur J Immunol** 1997 Mar;27(3):618–23

ISOLATION & PURIFICATION

Hepatocyte growth factor (HGF) is a copper-binding protein: a facile probe for purification of HGF by immobilized Cu(II)-affinity chromatography. Rahimi N, et al. **Protein Expr Purif** 1996 May;7(3):329–33

METABOLISM

Hepatocyte growth factor in bronchoalveolar lavage fluids and cells in patients with inflammatory chest diseases of the lower respiratory tract: detection by RIA and in situ hybridization. Sakai T, et al. **Am J Respir Cell Mol Biol** 1997 Apr;16(4):388–97

Functional and biophysical characterization of recombinant human hepatocyte growth factor isoforms produced in Escherichia coli. Stahl SJ, et al. **Biochem J** 1997 Sep 15; 326 (Pt 3):763–72

Transgenic mouse models in carcinogenesis: interaction of c-myc with transforming growth factor alpha and hepatocyte growth factor in hepatocarcinogenesis. Thorgeirsson SS, et al. **Br J Clin Pharmacol** 1996 Jul; 42(1):43–52

Induction of hepatocyte growth factor in fibroblasts by tumor-derived factors affects invasive growth of tumor cells: in vitro analysis of tumor-stromal interactions. Nakamura T, et al. **Cancer Res** 1997 Aug 1;57(15):3305–13

Inactivation of retinoblastoma family proteins by SV40 T antigen results in creation of a hepatocyte growth factor/scatter factor autocrine loop associated with an epithelial-fibroblastoid conversion and invasiveness. Martel C, et al. **Cell Growth Differ** 1997 Feb;8(2):165–78

Induction of hepatocyte growth factor in the liver, kidney and lung following total body irradiation in rat. Yamazaki H, et al. **Cytokine** 1996 Dec;8(12):927–32

Tear hepatocyte growth factor (HGF) availability increases markedly after excimer laser surface ablation. Tervo T, et al. **Exp Eye Res** 1997 Apr;64(4):501–4

Hepatocyte growth factor/scatter factor (HGF/SF) signals via the STAT3/APRF transcription factor in human hepatoma cells and hepatocytes. Schaper F, et al. **FEBS Lett** 1997 Mar 17;405(1):99–103

Localisation of hepatocyte growth factor and its receptor (c-met) protein and mRNA in human term placenta. Kilby MD, et al. **Growth Factors** 1996;13(1–2):133–9

Hepatocyte growth factor levels in liver and serum increase during chemical hepatocarcinogenesis. Burr AW, et al. **Hepatology** 1996 Nov;24(5):1282–7

Expression of hepatocyte growth factor and its receptor, the c-met proto-oncogene, in hepatocellular carcinoma. Ueki T, et al. **Hepatology** 1997 Mar;25(3):619–23

Expression of the c-Met/HGF receptor in human breast carcinoma: correlation with tumor progression. Beviglia L, et al. **Int J Cancer** 1997 Jun 20;74(3):301–9

Hepatocyte growth factor, keratinocyte growth factor, and other growth factor-receptor systems in the lens. Weng J, et al. **Invest Ophthalmol Vis Sci** 1997 Jul;38(8):1543–54

Phosphatidylinositol 3-kinase activity is required for hepatocyte growth factor-induced mitogenic signals in epithelial cells. Rahimi N, et al. **J Biol Chem** 1996 Oct 4;271(40):24850–5

Heparin binding and oligomerization of hepatocyte growth factor/scatter factor isoforms. Heparan sulfate glycosaminoglycan requirement for Met binding and signaling. Sakata H, et al. **J Biol Chem** 1997 Apr 4; 272(14):9457–63

Hepatocyte growth factor activator inhibitor, a novel Kunitz-type serine protease inhibitor. Shimomura T, et al. **J Biol Chem** 1997 Mar 7;272(10):6370–6

Levels of hepatocyte growth factor and its messenger ribonucleic acid in uncomplicated pregnancies and those complicated by preeclampsia. Furugori K, et al. **J Clin Endocrinol Metab** 1997 Aug;82(8):2726–30

The differential expression of hepatocyte growth factor and met in human placenta. Kauma S, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):949–54

Hepatocyte growth factor/scatter factor and its receptor c-met: localisation and expression in the human placenta throughout pregnancy. Clark DE, et al. **J Endocrinol** 1996 Dec;151(3):459–67

Hepatocyte growth factor/scatter factor-Met signaling in tumorigenicity and invasion/metastasis. Jeffers M, et al. **J Mol Med** 1996 Sep;74(9):505–13 (106 ref.)

Immunoreactivity for hepatocyte growth factor/scatter factor and its receptor, met, in human lung carcinomas and malignant mesotheliomas. Harvey P, et al. **J Pathol** 1996 Dec;180(4):389–94

Involvement of Livertine, a hepatocyte growth factor family member, in neural morphogenesis. Ruiz i Altaba A, et al. **Mech Dev** 1996 Dec;60(2):207–20

The receptor encoded by the human C-MET oncogene is expressed in testicular tissue and on human spermatozoa. Depuydt CE, et al. **Mol Hum Reprod** 1996 Jan;2(1):2–8

Hepatocyte growth factor localization in primary glomerulonephritis and drug-induced interstitial nephritis [letter] Taniguchi Y, et al. **Nephron** 1996;73(2):357–8

Hepatocyte growth factor in nephronophthisis-medullary cystic disease complex. Yorioka N, et al. **Pediatr Nephrol** 1996 Aug;10(4):515–6

PHARMACOLOGY

Hepatocyte growth factor stimulates the differentiation of human tracheal epithelia in vitro. Shen BQ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1115–20

Lack of effect of hepatocyte growth factor on bone marrow suppression induced by total body irradiation in the rat. Yamazaki H, et al. **Anticancer Res** 1997 Jan-Feb; 17(1A):479–80

Growth inhibition and induction of apoptosis by HGF in transformed rat liver epithelial cells. Conner EA, et al. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):396–401

Hepatocyte growth factor is a paracrine regulator of rat prostate epithelial growth. Kasai S, et al. **Biochem Biophys Res Commun** 1996 Nov 12;228(2):646–52

Hepatocyte growth factor/scatter factor-Met signaling induces proliferation, migration, and morphogenesis of pancreatic oval cells. Jeffers M, et al. **Cell Growth Differ** 1996 Dec;7(12):1805–13

Inhibition of junction assembly in cultured epithelial cells by hepatocyte growth factor/scatter factor is concomitant with increased stability and altered phosphorylation of the soluble junctional molecules. Pasdar M, et al. **Cell Growth Differ** 1997 Apr;8(4):451–62

Microtubule dynamic turnover is suppressed during polarization and stimulated in hepatocyte growth factor scattered Madin-Darby canine kidney epithelial cells. Wadsworth P, et al. **Cell Motil Cytoskeleton** 1996; 35(3):225–36

Control of invasive growth by hepatocyte growth factor (HGF) and related scatter factors. Tamagnone L, et al. **Cytokine Growth Factor Rev** 1997 Jun;8(2):129–42 (153 ref.)

Chemotaxis of skeletal muscle satellite cells. Bischoff R. **Dev Dyn** 1997 Apr;208(4):505–15

Hepatocyte growth factor (HGF/SF) is a muscle-derived survival factor for a subpopulation of embryonic motoneurons. Yamamoto Y, et al. **Development** 1997 Aug; 124(15):2903–13

Potential role of an endothelium-specific growth factor, hepatocyte growth factor, on endothelial damage in diabetes. Morishita R, et al. **Diabetes** 1997 Jan;46(1):138–42

Recombinant human hepatocyte growth factor facilitates biliary transport after hepatocyte transplantation in Eisai hyperbilirubinemic rats. Yamaguchi Y, et al. **Dig Dis Sci** 1997 Mar;42(3):522–8

Transcriptional induction of the agp/ebp (c/ebp beta) gene by hepatocyte growth factor. Shen BJ, et al. **DNA Cell Biol** 1997 Jun;16(6):703–11

Opposing actions of hepatocyte growth factor and basic fibroblast growth factor on cell contact, intracellular free calcium levels, and rat ovarian surface epithelial cell viability. Gulati R, et al. **Endocrinology** 1997 May; 138(5):1847–56

Formation of insulin-producing cells from pancreatic acinar AR42J cells by hepatocyte growth factor. Mashima H, et al. **Endocrinology** 1996 Sep;137(9):3969–76

Hepatocyte growth factor regulates ovarian theca-interstitial cell differentiation and androgen production. Zachow RJ, et al. **Endocrinology** 1997 Feb;138(2):691–7

Effect of phosphorylated rat fetuin on the growth of hepatocytes in primary culture in the presence of human hepatocyte-growth factor. Evidence that phosphorylated fetuin is a natural modulator of hepatocyte-growth factor. Ohnishi T, et al. **Eur J Biochem** 1997 Feb 1;243(3):753–61

Growth and differentiation factors inhibit the migratory phenotype of cultured neonatal rat hepatocytes induced by HGF/SF. Pagan R, et al. **Exp Cell Res** 1997 Aug 25; 235(1):170–9

Possible involvement of pertussis toxin-sensitive G protein in hepatocyte growth factor-induced signal transduction in cultured rat hepatocytes: pertussis toxin treatment inhibits activation of phospholipid signaling, calcium oscillation, and mitogen-activated protein kinase. Adachi T, et al. **Hepatology** 1997 Aug;26(2):295–300

Phospholipase D activation in hepatocyte growth factor-stimulated rat hepatocytes mediates the expressions of c-jun and c-fos: involvement of protein tyrosine kinase, protein kinase C, and Ca2+. Adachi T, et al. **Hepatology** 1996 Nov;24(5):1274–81

The in vivo effect of hepatotrophic factors augmenter of liver regeneration, hepatocyte growth factor, and insulin-like growth factor-II on liver natural killer cell functions. Francavilla A, et al. **Hepatology** 1997 Feb;25(2):411–5

Hepatocyte growth factor and c-met expression in Long-Evans Cinnamon rats with spontaneous hepatitis and hepatoma. Nakayama N, et al. **Hepatology** 1996 Sep; 24(3):596–602

Antifibrogenic effect of a deletion variant of hepatocyte growth factor on liver fibrosis in rats. Yasuda H, et al. **Hepatology** 1996 Sep;24(3):636–42

A vascular modulator, hepatocyte growth factor, is associated with systolic pressure. Nakamura Y, et al. **Hypertension** 1996 Sep;28(3):409–13

Effect of hepatocyte growth factor/scatter factor on lipogenesis in adult rat hepatocytes in primary culture. Shao Q, et al. **J Biochem (Tokyo)** 1996 May;119(5):940–6

Hepatocyte growth factor alters the polarity of Madin-Darby canine kidney cell monolayers. Balkovetz DF, et al. **J Biol Chem** 1997 Feb 7;272(6):3471–7

Mechanisms of hepatocyte growth factor stimulation of keratinocyte metalloproteinase production. Dunsmore SE, et al. **J Biol Chem** 1996 Oct 4;271(40):24576–82

The hepatocyte growth factor receptor kinase-mediated phosphorylation of lipocortin-1 transduces the proliferating signal of the hepatocyte growth factor. Skouteris GG, et al. **J Biol Chem** 1996 Nov 1;271(44):27266–73

Hepatocyte growth factor promotes motor neuron survival and synergizes with ciliary neurotrophic factor. Wong V, et al. **J Biol Chem** 1997 Feb 21;272(8):5187–91

Hemodynamic effects of scatter factor in conscious rats. Yang R, et al. **J Cardiovasc Pharmacol** 1997 Sep;30(3):294–301

A natural hepatocyte growth factor/scatter factor autocrine loop in myoblast cells and the effect of the constitutive Met kinase activation on myogenic differentiation. Anastasi S, et al. **J Cell Biol** 1997 Jun 2;137(5):1057–68

Ezrin is an effector of hepatocyte growth factor-mediated migration and morphogenesis in epithelial cells. Crepaldi T, et al. **J Cell Biol** 1997 Jul 28;138(2):423–34

The zinc-finger protein slug causes desmosome dissociation, an initial and necessary step for growth factor-induced epithelial-mesenchymal transition. Savagner P, et al. **J Cell Biol** 1997 Jun 16;137(6):1403–19

Synergistic enhancement of EGF, but not HGF, stimulated hepatocyte motility by TGF-beta 1 in vitro. Stolz DB, et al. **J Cell Physiol** 1997 Jan;170(1):57–68

Stimulation of liver regeneration and function after partial hepatectomy in cirrhotic rats by continuous infusion of recombinant human hepatocyte growth factor. Kaibori M, et al. **J Hepatol** 1997 Aug;27(2):381–90

Hepatocyte growth factor is a novel member of the endothelium-specific growth factors: additive stimulatory effect of hepatocyte growth factor with basic fibroblast growth factor but not with vascular endothelial growth factor. Nakamura Y, et al. **J Hypertens** 1996 Sep; 14(9):1067–72

Activation of LDL receptor gene expression in HepG2 cells by hepatocyte growth factor. Pak YK, et al. **J Lipid Res** 1996 May;37(5):985–98

Vasopressin synergistically stimulates DNA synthesis in normal and regenerating rat liver cell cultures in the presence of hepatocyte growth factor. Metcalfe AM, et al. **J Mol Endocrinol** 1997 Apr;18(2):161–6

Neurotrophic effect of hepatocyte growth factor on central nervous system neurons in vitro. Hamanoue M, et al. **J Neurosci Res** 1996 Mar 1;43(5):554–64

The influence of scattering on temporo-regional proliferation in the cultured Madin-Darby canine kidney (MDCK) cells. Sugahara M, et al. **J Nihon Univ Sch Dent** 1995 Dec; 37(4):201–8

Hepatocyte growth factor enhances intestinal mucosal cell function and mass in vivo. Kato Y, et al. **J Pediatr Surg** 1997 Jul;32(7):991–4

Proliferation of adult rat hepatocytes by hepatocyte growth factor is potentiated by both phenylephrine and metaproterenol. Kimura M, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1146–54

Transforming growth factor-beta and hepatocyte growth factor produced by gastric fibroblasts stimulate the invasiveness of scirrhous gastric cancer cells. Inoue T, et al. **Jpn J Cancer Res** 1997 Feb;88(2):152–9

Modulation of motility and proliferation of glioma cells by hepatocyte growth factor. Yamamoto S, et al. **Jpn J Cancer Res** 1997 Jun;88(6):564–77

Degradation of the Met tyrosine kinase receptor by the ubiquitin-proteasome pathway. Jeffers M, et al. **Mol Cell Biol** 1997 Feb;17(2):799–808

Mitogenic stimulation of normal and oncogene-transformed human thyroid epithelial cells by hepatocyte growth factor. Eccles N, et al. **Mol Cell Endocrinol** 1996 Mar 25; 117(2):247–51

c-met expression in pancreatic cancer and effects of hepatocyte growth factor on pancreatic cancer cell growth. Kiehne K, et al. **Pancreas** 1997 Jul;15(1):35–40

Hepatocyte growth factor is a coupling factor for osteoclasts and osteoblasts in vitro. Grano M, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7644–8

Effect of hepatocyte growth factor on radiation response of HeLa, V79, CHO and primary cultured parenchymal hepatocyte in vitro. Yamazaki H, et al. **Radiat Med** 1996 Mar-Apr;14(2):81–5

Effects of recombinant cytokines on colony formation by irradiated human cord blood CD34+ hematopoietic progenitor cells. Goff JP, et al. **Radiat Res** 1997 Jan; 147(1):61–9

Synergistic effects of hepatocyte growth factor on human cord blood CD34+ progenitor cells are the result of c-met

receptor expression. Goff JP, et al. **Stem Cells** 1996 Sep; 14(5):592–602

Effect of hepatocyte growth factor on the proliferation of transplanted hepatocytes in the spleen. Kato K, et al. **Transplant Proc** 1997 Jun;29(4):2029–31

[Prevention of endotoxic shock in rats with hepatic stimulating substance] Zeng W, et al. **Chung Hua Nei Ko Tsa Chih** 1996 Feb;35(2):99–102 (Eng. Abstr.) **(Chi)**

[Stimulation of corneal endothelial cell proliferation by interleukins, complete mitogens and corneal parenchymal cell-derived factors] Senoo T, et al. **Nippon Ganka Gakkai Zasshi** 1996 Nov;100(11):845–52 (Eng. Abstr.) **(Jpn)**

[Stimulation of regenerative processes and correction of the functional activity of the liver in its partial resection and toxic lesions] Abakumova OIu, et al. **Vestn Ross Akad Med Nauk** 1996;(5):36–41 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Inhibitory effect of ethanol on hepatocyte growth factor–induced DNA synthesis and Ca2+ mobilization in rat hepatocytes. Saso K, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):330A–334A

Hepatocyte growth factor is a mitogen for alveolar type II cells in rat lavage fluid. Mason RJ, et al. **Am J Physiol** 1996 Jul;271(1 Pt 1):L46–53

EGF receptor ligands are a large fraction of in vitro branching morphogens secreted by embryonic kidney. Sakurai H, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):F463–72

Hepatocyte growth factor. A cytokine mediating endothelial migration in inflammatory arthritis. Koch AE, et al. **Arthritis Rheum** 1996 Sep;39(9):1566–75

Activation of Met tyrosine kinase by hepatocyte growth factor is essential for internal organogenesis in Xenopus embryo. Aoki S, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):8–14

Regulation of endothelial CD44 expression and endothelium–tumour cell interactions by hepatocyte growth factor/scatter factor. Hiscox S, et al. **Biochem Biophys Res Commun** 1997 Apr 7;233(1):1–5

Hepatocyte growth factor/scatter factor promotes adhesion of lymphoma cells to extracellular matrix molecules via alpha 4 beta 1 and alpha 5 beta 1 integrins. Weimar IS, et al. **Blood** 1997 Feb 1;89(3):990–1000

Identification of a hepatocyte growth factor autocrine loop in a murine mammary carcinoma. Rahimi N, et al. **Cell Growth Differ** 1996 Feb;7(2):263–70

Hepatocyte growth factor/scatter factor overexpression induces growth, abnormal development, and tumor formation in transgenic mouse livers. Sakata H, et al. **Cell Growth Differ** 1996 Nov;7(11):1513–23

Is hepatocyte growth factor a protein with cardioprotective activity in the ischemic heart? [editorial; comment] Schaper W, et al. **Circulation** 1997 Jun 3;95(11):2471–2. Comment on: Circulation 1997 Jun 3;95(11):2552–8.

Control of invasive growth by hepatocyte growth factor (HGF) and related scatter factors. Tamagnone L, et al. **Cytokine Growth Factor Rev** 1997 Jun;8(2):129–42 (153 ref.)

Scatter factor/hepatocyte growth factor (SF/HGF) induces emigration of myogenic cells at interlimb level in vivo. Brand-Saberi B, et al. **Dev Biol** 1996 Oct 10;179(1):303–8

Potential role of an endothelium-specific growth factor, hepatocyte growth factor, on endothelial damage in diabetes. Morishita R, et al. **Diabetes** 1997 Jan;46(1):138–42

Regulation of angiogenesis by scatter factor. Rosen EM, et al. **EXS** 1997;79:193–208 (93 ref.)

Continuous hepatocyte growth factor supply prevents lipopolysaccharide-induced liver injury in rats. Kaido T, et al. **FEBS Lett** 1997 Jul 14;411(2–3):378–82

Developmental expression and functionality of hepatocyte growth factor and c-Met in human fetal digestive tissues. Kermorgant S, et al. **Gastroenterology** 1997 May; 112(5):1635–47

Hepatocyte growth factor/scatter factor, a cytokine playing multiple and converse roles. Jiang WG, et al. **Histol Histopathol** 1997 Apr;12(2):537–55 (242 ref.)

Hepatocyte growth factor and digital clubbing. Hojo S, et al. **Intern Med** 1997 Jan;36(1):44–6

Paracrine regulation of germinal center B cell adhesion through the c-met–hepatocyte growth factor/scatter factor pathway. van der Voort R, et al. **J Exp Med** 1997 Jun 16;185(12):2121–31

Angiogenesis induced in vivo by hepatocyte growth factor is mediated by platelet-activating factor synthesis from macrophages. Camussi G, et al. **J Immunol** 1997 Feb 1; 158(3):1302–9

Primary human fibroblasts induce diverse tumor invasiveness: involvement of HGF as an important paracrine factor. Iwazawa T, et al. **Jpn J Cancer Res** 1996 Nov; 87(11):1134–42

Scatter factor stimulates tumor growth and tumor angiogenesis in human breast cancers in the mammary fat pads of nude mice. Lamszus K, et al. **Lab Invest** 1997 Mar; 76(3):339–53

Scatter factor/hepatocyte growth factor gene transfer enhances glioma growth and angiogenesis in vivo. Laterra J, et al. **Lab Invest** 1997 Apr;76(4):565–77

Renal tubular hyperplasia, polycystic disease, and glomerulosclerosis in transgenic mice overexpressing hepatocyte growth factor/scatter factor. Takayama H, et al. **Lab Invest** 1997 Aug;77(2):131–8

Modifications of the hepatocyte growth factor/c-met pathway by constitutive expression of transforming growth factor-alpha in rat liver epithelial cells. Presnell SC, et al. **Mol Carcinog** 1997 Apr;18(4):244–55

Interaction of c-myc with transforming growth factor alpha and hepatocyte growth factor in hepatocarcinogenesis. Thorgeirsson SS, et al. **Mutat Res** 1997 May 12; 376(1–2):221–34

Hepatocyte growth factor/scatter factor is an axonal chemoattractant and a neurotrophic factor for spinal motor neurons. Ebens A, et al. **Neuron** 1996 Dec;17(6):1157–72

Human amniotic fluid motogenic activity for fetal alveolar type II cells by way of hepatocyte growth factor. Itakura A, et al. **Obstet Gynecol** 1997 May;89(5 Pt 1):729–33

Hepatocyte growth factor as mitogen, motogen and morphogen, and its roles in organ regeneration. Nakamura T. **Princess Takamatsu Symp** 1994;24:195–213 (76 ref.)

Diverse tumorigenesis associated with aberrant development in mice overexpressing hepatocyte growth factor/scatter factor. Takayama H, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):701–6

Inhibitory effect of hepatocyte growth factor on metastasis of hepatocellular carcinoma in transgenic mice. Shiota G, et al. **Res Commun Mol Pathol Pharmacol** 1996 Jan; 91(1):33–9

SECRETION

Increased secretion of hepatocyte growth factor by eutopic endometrial stromal cells in women with endometriosis. Sugawara J, et al. **Fertil Steril** 1997 Sep;68(3):468–72

THERAPEUTIC USE

Preventive and therapeutic effects in rats of hepatocyte growth factor infusion on liver fibrosis/cirrhosis. Matsuda Y, et al. **Hepatology** 1997 Jul;26(1):81–9

Antibacterial activity of xanthones from guttiferaeous plants against methicillin-resistant Staphylococcus aureus. Iinuma M, et al. **J Pharm Pharmacol** 1996 Aug;48(8):861–5

Amelioration of disordered hepatic protein synthesis by the deleted form of hepatocyte growth factor in models of liver failure in rats. Masunaga H, et al. **J Pharm Pharmacol** 1996 Aug;48(8):876–9

Deleted form of hepatocyte growth factor (dHGF) increases the number of platelets in rats with liver cirrhosis. Masunaga H, et al. **Liver** 1997 Aug;17(4):192–7

Hepatocyte growth factor, tissue repair and cancer [news] Abdulla S. **Mol Med Today** 1997 Jun;3(6):233

HEPATOCYTE-STIMULATING FACTOR see **INTERLEUKIN-6**

HEPATOLENTICULAR DEGENERATION

Menkes disease: recent advances and new insights into copper metabolism. Tümer Z, et al. **Ann Med** 1996 Apr;28(2):121–9 (63 ref.)

An international symposium on Wilson's and Menkes' diseases. Ferenci P, et al. **Hepatology** 1996 Oct;24(4):952–8

The toxic milk mouse is a murine model of Wilson disease. Theophilos MB, et al. **Hum Mol Genet** 1996 Oct; 5(10):1619–24

A woman physician–patient: her view of Wilson's disease. Charache P. **Pharos** 1997 Spring;60(2):35–7

[Wilson's disease] Bonfissuto G, et al. **Recenti Prog Med** 1997 Jan;88(1):40–5 (Eng. Abstr.) **(Ita)**

BLOOD

[Fatty liver hepatitis (letter; comment)] Seidler D. **Dtsch Med Wochenschr** 1997 Jun 13;122(24):802–3. Comment on: Dtsch Med Wochenschr 1997 Jan 31;122(5):140. **(Ger)**

COMPLICATIONS

Successful pregnancy in a neurologically impaired woman with Wilson's disease. Berghella V, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):712–4

Penicillamine-related neurologic syndrome in a child affected by Wilson disease with hepatic presentation. Porzio S, et al. **Arch Neurol** 1997 Sep;54(9):1166–8

Fulminant hepatic failure as the first manifestation of Wilson disease: a report of two cases. Chung CC, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 May;59(5):315–9

Image of the Month. Sunflower cataract. Stevens AC, et al. **Gastroenterology** 1997 Jan;112(1):6, 317

Case in point. Wilson's disease. Hariharan R, et al. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):22J

Acanthosis nigricans associated with hepatolenticular degeneration. Thaipisuttikul Y. **J Dermatol** 1997 Jun; 24(6):395–400

Autonomic involvement in Wilson's disease: a study of sympathetic skin response and RR interval variation. Chu EC, et al. **J Neurol Sci** 1997 Aug;149(2):131–7

Stereotypies in Wilson's disease. Yorio AA, et al. **Mov Disord** 1997 Jul;12(4):614–6

Recurrent hypokalemic muscle weakness as an initial manifestation of Wilson's disease. Chu CC, et al. **Nephron** 1996;73(3):477–9

Wilson cirrhosis associated with membranoproliferative glomerulonephritis [letter] Gündüz Z, et al. **Nephron** 1996; 74(2):497–8

Neurologic presentation of Wilson disease without Kayser-Fleischer rings. Demirkiran M, et al. **Neurology** 1996 Apr;46(4):1040–3

Differentiation between portal-systemic encephalopathy and neurodegenerative disorders in patients with Wilson disease: H-1 MR spectroscopy. Van Den Heuvel AG, et al. **Radiology** 1997 May;203(2):539–43

DIAGNOSIS

Wilson disease: asymptomatic or late-onset type? [letter; comment] Wang XP. **Acta Neurol Scand** 1996 Dec; 94(6):421–2. Comment on: Acta Neurol Scand 1995 Apr;91(4):302–5.

Cranial MR findings in Wilson's disease. Saatci I, et al. **Acta Radiol** 1997 Mar;38(2):250–8

Pediatric Wilson's disease: presentation and management. On A, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Mar–Apr;38(2):98–103

MR imaging of Wilson's disease: contrast enhancement of the cerebral cortex, and corticomedullary junction. Sener RN. **Comput Med Imaging Graph** 1997 May–Jun; 21(3):195–200

Muddying the water: Wilson's disease challenges will not soon disappear [editorial; comment] Dufour JF, et al. **Gastroenterology** 1997 Jul;113(1):348–50. Comment on: Gastroenterology 1997 Jul;113(1):212–8.

Overcoming obstacles to the diagnosis of Wilson's disease [editorial; comment] Schilsky ML, et al. **Gastroenterology** 1997 Jul;113(1):350–3. Comment on: Gastroenterology 1997 Jul;113(1):212–8.

Diagnosis of Wilson's disease using DNA linkage analysis [letter] Smith HL. **Gastroenterology** 1996 Jun;110(6):2025–6

Wilson's disease in patients presenting with liver disease: a diagnostic challenge [see comments] Steindl P, et al. **Gastroenterology** 1997 Jul;113(1):212–8. Comment in: Gastroenterology 1997 Jul;113(1):348–50. Comment in: Gastroenterology 1997 Jul;113(1):350–3.

Problems in diagnosis and management of Wilson's disease in India [editorial] Pandit A, et al. **Indian Pediatr** 1996 Oct; 33(10):807–11

Wilson's disease: an update. Garg RK, et al. **J Assoc Physicians India** 1995 May;43(5):351–5 (36 ref.)

Molecular diagnosis of Wilson's disease [letter] Shimizu N, et al. **Lancet** 1997 Jun 21;349(9068):1811–2

Finding the optimal multiple-test strategy using a method analogous to logistic regression: the diagnosis of hepatolenticular degeneration (Wilson's disease). Richards RJ, et al. **Med Decis Making** 1996 Oct–Dec;16(4):367–75

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 1–1997. A 23-year-old man with fulminant hepatorenal failure of uncertain cause [clinical conference] [published erratum appears in N Engl J Med 1997 Feb 13;336(7):523] **N Engl J Med** 1997 Jan 9;336(2):118–25

Atypical MRI features of Wilson's disease: high signal in globus pallidus on T1-weighted images. Mochizuki H, et al. **Neuroradiology** 1997 Mar;39(3):171–4

Wilson's disease: presymptomatic patients and Kayser-Fleischer rings. Rodman R, et al. **Ophthalmic Genet** 1997 Jun;18(2):79–85

Western blot analysis in patients with hypocaeruloplasminaemia. Chowrimootoo GF, et al. **QJM** 1997 Mar;90(3):197–202

Wilson's disease presenting as haemolytic anaemia and its successful treatment with penicillamine and zinc. Kong HL, et al. **Singapore Med J** 1996 Dec;37(6):670–2

Wilson's disease. Baban NK, et al. **South Med J** 1997 May; 90(5):535–8

[Gene diagnosis for hepatolenticular degeneration by genetic linkage analysis with four short tandem repeat polymorphisms] Wu Z, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Aug;76(8):578–81 (Eng. Abstr.) **(Chi)**

[Late form with psychiatric presentation of Wilson's disease, with pseudo-compulsive stereotyped movements. Neuro-radiological correlations] Garnier H, et al. **Rev Neurol (Paris)** 1997 Mar;153(2):124–8 (30 ref.) (Eng. Abstr.) **(Fre)**

[Magnetic resonance tomography of liver cirrhosis in a 17-year-old patient. Liver cirrhosis in hepatolenticular degeneration] Marx C, et al. **Radiologe** 1996 Oct; 36(10):841–3 **(Ger)**

[Current diagnosis: hereditary metabolic diseases of the liver (primary hemochromatosis, Wilson disease)] Stremmel W. **Schweiz Rundsch Med Prax** 1996 Nov 19;85(47):1513–7 (Eng. Abstr.) **(Ger)**

[Acute hemolytic crisis as the initial manifestation of Wilson disease] Rath HC, et al. **Z Gastroenterol** 1997 Mar; 35(3):199–203 (Eng. Abstr.) **(Ger)**

[A nation-wide survey for neurologic and hepato-neurologic type of Wilson disease: clinical features and hepatic copper content] Shimizu N, et al. **No To Hattatsu** 1996 Sep; 28(5):391–7 (Eng. Abstr.) **(Jpn)**

[A case of Wilson's disease with an atypical clinical course] Michałowska-Kurowska M, et al. **Pol Merkuriusz Lek** 1996 Sep;1(3):204–6 (Eng. Abstr.) **(Pol)**

[Wilson's disease: a review apropos of a clinical experience in 16 patients] Miranda M, et al. **Rev Med Chil** 1995 Sep;

123(9):1098–107 (Eng. Abstr.) **(Spa)**
[A case of a benign course of Wilson–Konovalov disease] Shved M, et al. **Lik Sprava** 1996 Mar–Apr;(3–4):165–6 **(Ukr)**

DRUG THERAPY

Treatment of Wilson disease with ammonium tetrathiomolybdate. II. Initial therapy in 33 neurologically affected patients and follow-up with zinc therapy. Brewer GJ, et al. **Arch Neurol** 1996 Oct;53(10):1017–25
Penicillamine-related neurologic syndrome in a child affected by Wilson disease with hepatic presentation. Porzio S, et al. **Arch Neurol** 1997 Sep;54(9):1166–8
Treatment of Wilson's disease with zinc: XIV. Studies of the effect of zinc on lymphocyte function. Brewer GJ, et al. **J Lab Clin Med** 1997 Jun;129(6):649–52
Effects of long-term treatment in Wilson's disease with D-penicillamine and zinc sulphate. Czlonkowska A, et al. **J Neurol** 1996 Mar;243(3):269–73
Wilson's disease presenting as haemolytic anaemia and its successful treatment with penicillamine and zinc. Kong HL, et al. **Singapore Med J** 1996 Dec;37(6):670–2
[Perspective study on intelligence quotient of 28 hepatic lenticular degeneration patients with treatment combining traditional Chinese and Western medicine] Cai YL, et al. **Chung Kuo Chung Hsi I Chieh Ho Tsa Chih** 1996 Jan; 16(1):6–9 (Eng. Abstr.) **(Chi)**

GENETICS

Haplotype and mutation analysis in Japanese patients with Wilson disease. Nanji MS, et al. **Am J Hum Genet** 1997 Jun;60(6):1423–9
Identification and analysis of mutations in the Wilson disease gene (ATP7B): population frequencies, genotype-phenotype correlation, and functional analyses. Shah AB, et al. **Am J Hum Genet** 1997 Aug;61(2):317–28
Detection of the His1069Gln mutation in Wilson disease by rapid polymerase chain reaction [see comments] Maier-Dobersberger T, et al. **Ann Intern Med** 1997 Jul 1;127(1):21–6. Comment in: Ann Intern Med 1997 Jul 1;127(1):70–2.
Genetic heterogeneity in Wilson disease: lessons from rare alleles [editorial; comment] Pyeritz RE. **Ann Intern Med** 1997 Jul 1;127(1):70–2. Comment on: Ann Intern Med 1997 Jul 1;127(1):21–6.
Diagnosis of Wilson's disease using DNA linkage analysis [letter] Smith HL. **Gastroenterology** 1996 Jun;110(6):2025–6
Efficient detection of mutations in Wilson disease by manifold sequencing. Waldenström E, et al. **Genomics** 1996 Nov 1; 37(3):303–9
Wilson disease mutations associated with uncommon haplotypes in Mediterranean patients. Loudianos G, et al. **Hum Genet** 1996 Dec;98(6):640–2
Developmental expression of the mouse mottled and toxic milk genes suggests distinct functions for the Menkes and Wilson disease copper transporters. Kuo YM, et al. **Hum Mol Genet** 1997 Jul;6(7):1043–9
24 bp deletion and Ala1278 to Val mutation of the ATP7B gene in a Sardinian family with Wilson disease. Orrù S, et al. **Hum Mutat** 1997;10(1):84–5
A homozygous nonsense mutation and a combination of two mutations of the Wilson disease gene in patients with different lysyl oxidase activities in cultured fibroblasts. Kemppainen R, et al. **J Invest Dermatol** 1997 Jan; 108(1):35–9
High frequency of two mutations in codon 778 in exon 8 of the ATP7B gene in Taiwanese families with Wilson disease. Chuang LM, et al. **J Med Genet** 1996 Jun; 33(6):521–3
Gene regulation by copper and the basis for copper homeostasis [editorial] Mercer JF. **Nutrition** 1997 Jan; 13(1):48–9
Molecular advances in Wilson disease. Cox DW. **Prog Liver Dis** 1996;14:245–64 (87 ref.)
[Occurrence of copper metabolism abnormalities in the families of four individuals with newly diagnosed Wilson's disease] Dastych M. **Vnitr Lek** 1997 Feb;43(2):87–90 (Eng. Abstr.) **(Cze)**

HISTORY

Wilson's disease. Pearce JM. **J Neurol Neurosurg Psychiatry** 1997 Aug;63(2):174

IMMUNOLOGY

Gamma delta + T cells in Wilson's disease. Fiszer U, et al. **Int J Clin Lab Res** 1996;26(1):51–4
Treatment of Wilson's disease with zinc: XIV. Studies of the effect of zinc on lymphocyte function. Brewer GJ, et al. **J Lab Clin Med** 1997 Jun;129(6):649–52

METABOLISM

Copper transport and its alterations in Menkes and Wilson diseases. DiDonato M, et al. **Biochim Biophys Acta** 1997 Feb 27;1360(1):3–16 (125 ref.)
Defective biliary copper excretion in Wilson's disease: the role of caeruloplasmin. Davis W, et al. **Eur J Clin Invest** 1996 Oct;26(10):893–901
Premature oxidative aging of hepatic mitochondrial DNA in Wilson's disease. Mansouri A, et al. **Gastroenterology** 1997 Aug;113(2):599–605
Presence of ATP-dependent copper transport in the hepatocyte canalicular membrane of the Long-Evans cinnamon rat, an animal model of Wilson disease [letter] Adachi Y, et al. **J Hepatol** 1997 Jan;26(1):216–7
Dopamine D2 receptor binding is reduced in Wilson's disease: correlation of neurological deficits with striatal 123I-iodobenzamide binding. Oder W, et al. **J Neural Transm** 1996;103(8–9):1093–103
Neurochemical and histochemical evidence for an abnormal catecholamine metabolism in the cerebral cortex of the Long-Evans Cinnamon rat before excessive copper accumulation in the brain. Saito T, et al. **Neurosci Lett** 1996 Oct 4;216(3):195–8

PATHOLOGY

Cranial MR imaging in Wilson's disease. King AD, et al. **AJR Am J Roentgenol** 1996 Dec;167(6):1579–84
A Wilson's disease patient with prominent cerebral white matter lesions: five-year follow-up by MRI. Yoshii F, et al. **Eur Neurol** 1996;36(6):392–3
Case in point. Wilson's disease. Hariharan R, et al. **Hosp Pract (Off Ed)** 1996 Aug 15;31(8):22J
Reversible magnetic resonance imaging lesions in Wilson's disease: clinical-anatomical correlation. Takahashi W, et al. **J Neuroimaging** 1996 Oct;6(4):246–8
Neuroimaging in Wilson disease. van Wassenaer-van Hall HN. **Metab Brain Dis** 1996 Mar;12(1):1–19 (125 ref.)
Neurologic presentation of Wilson disease without Kayser-Fleischer rings. Demirkiran M, et al. **Neurology** 1996 Apr;46(4):1040–3
Wilson's disease: presymptomatic patients and Kayser-Fleischer rings. Rodman R, et al. **Ophthalmic Genet** 1997 Jun;18(2):79–85
[The role of the pathologist in the diagnosis and monitoring of Wilson's disease] Faa G. **Pathologica** 1996 Apr; 88(2):102–10 (31 ref.) (Eng. Abstr.) **(Ita)**

PHYSIOPATHOLOGY

Regression of Kayser-Fleischer rings during oral zinc therapy: correlation with systemic manifestations of Wilson's disease. Esmaeli B, et al. **Cornea** 1996 Nov; 15(6):582–8
Motor cortex threshold in Wilson's disease (transcranial magnetic stimulation). Niewiadomska M, et al. **Neurol Neurochir Pol** 1996;30 Suppl 3:95–100
Proteinuria and other renal functions in Wilson's disease. Sözeri E, et al. **Pediatr Nephrol** 1997 Jun;11(3):307–11
Neurological improvement of Wilson's disease after liver transplantation. Chen CL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):497–8
Neurologic symptoms improve in patients with Wilson's disease despite immunosuppression. Schumacher G, et al. **Transplant Proc** 1996 Dec;28(6):3099–100
[The function of the segmental motoneurons in Wilson–Konovalov's hepatocerebral dystrophy] Starikov AS. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996; 96(3):72–5 (Eng. Abstr.) **(Rus)**

PREVENTION & CONTROL

Intrahepatic transplantation of normal hepatocytes prevents Wilson's disease in Long-Evans cinnamon rats. Yoshida Y, et al. **Gastroenterology** 1996 Dec;111(6):1654–60
Screening for Wilson's disease in patients with liver diseases by serum ceruloplasmin. Cauza E, et al. **J Hepatol** 1997 Aug;27(2):358–62

PSYCHOLOGY

[Disorders of mental functioning in Wilson's disease] Seniów J, et al. **Neurol Neurochir Pol** 1996 Jul–Aug;30(4):631–40 (19 ref.) (Eng. Abstr.) **(Pol)**

RADIOGRAPHY

Leucodystrophic CT changes in Wilson's disease. Basu S, et al. **J Assoc Physicians India** 1995 Jan;43(1):66

RADIONUCLIDE IMAGING

Neuroimaging in Wilson disease. van Wassenaer-van Hall HN. **Metab Brain Dis** 1996 Mar;12(1):1–19 (125 ref.)

SURGERY

Liver transplantation: treatment of choice for hepatic and neurological manifestation of Wilson's disease. Schumacher G, et al. **Clin Transplant** 1997 Jun;11(3):217–24
Paediatric liver transplantation: a 10 year experience in Taiwan. Chen CL, et al. **J Gastroenterol Hepatol** 1996 May; 11(5):S1–3
Neurological improvement of Wilson's disease after liver transplantation. Chen CL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):497–8

THERAPY

Neurologic symptoms improve in patients with Wilson's disease despite immunosuppression. Schumacher G, et al. **Transplant Proc** 1996 Dec;28(6):3099–100

HEPATOLOGY see **GASTROENTEROLOGY**

HEPATOMA see **CARCINOMA, HEPATOCELLULAR**

HEPATOMA, BENIGN see **ADENOMA, LIVER CELL**

HEPATOMA, EXPERIMENTAL see **LIVER NEOPLASMS, EXPERIMENTAL**

HEPATOMA, MORRIS see **LIVER NEOPLASMS, EXPERIMENTAL**

HEPATOMA, NOVIKOFF see **LIVER NEOPLASMS, EXPERIMENTAL**

HEPATOMEGALY

Clinical and hematological characteristics of hepatosplenic T gamma/delta lymphoma with isochromosome for long arm of chromosome 7. Yao M, et al. **Leuk Lymphoma** 1996 Aug;22(5–6):495–500
[Development of nuclear anomalies and cytomegalic degeneration upon damage to the genome in liver cells] Iruvaeva OV, et al. **Dokl Akad Nauk** 1996 Jun;348(5):703–5 **(Rus)**

COMPLICATIONS

Ophthalmic findings in a case of hemophagocytic syndrome. Kawamura H, et al. **Am J Ophthalmol** 1997 Aug; 124(2):261–3
Pulmonary hypertension developing after alglucerase therapy in two patients with type 1 Gaucher disease complicated by the hepatopulmonary syndrome. Dawson A, et al. **Ann Intern Med** 1996 Dec 1;125(11):901–4
Hepatomegaly in neuroblastoma stage 4s: criteria for treatment of the vulnerable neonate. Hsu LL, et al. **Med Pediatr Oncol** 1996 Dec;27(6):521–8
Hepatomegaly in acute falciparum malaria in children. Sowunmi A. **Trans R Soc Trop Med Hyg** 1996 Sep–Oct; 90(5):540–2

DIAGNOSIS

Neutrophilia and organomegaly in two patients with cancer. Wright JJ, et al. **Hosp Pract (Off Ed)** 1997 Jan 15; 32(1):135–6, 139–42
Interpretation of serum alpha-feto protein in an infant with hepatomegaly. Kapoor G, et al. **Indian Pediatr** 1996 Jan; 33(1):65–9
Primary systemic amyloidosis with giant hepatomegaly and a swiftly progressive course. Mainenti PP, et al. **J Clin Gastroenterol** 1997 Apr;24(3):173–5
[A case of glycogenosis in a patient with insulin dependent diabetes] Marangiello R, et al. **Minerva Pediatr** 1996 Jun; 48(6):279–81 (Eng. Abstr.) **(Ita)**
[Empyema and hepatosplenomegaly] Crespo Valadés E, et al. **Rev Clin Esp** 1997 Aug;197(8):587–8 **(Spa)**

ETIOLOGY

Massive hepatomegaly in multiple myeloma. Premawardene AP, et al. **Ceylon Med J** 1997 Mar;42(1):40–1
Case of the month. A 3.5-year-old female with developmental delays, hepatomegaly, and coarse facies. Yano S, et al. **Eur J Pediatr** 1997 Aug;156(8):661–3
Choledochal cyst presenting as hepatosplenomegaly with cholangitis. Wasadikar PP, et al. **Indian J Med Sci** 1995 Sep;49(9):212–3
Hypoinsulinaemia has an important role in the development of oedema and hepatomegaly during malnutrition. Soliman AT, et al. **J Trop Pediatr** 1996 Oct;42(5):297–9
Hepatomegaly and abnormal liver tests due to glycogenosis in adults with diabetes. Chatila R, et al. **Medicine (Baltimore)** 1996 Nov;75(6):327–33
[Hepatomegaly revealing Noonan syndrome without cardiac malformation (letter)] Perlemuter G, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1065–6 **(Fre)**
[A study on the pathogenesis of hepatomegaly in patients with Crow–Fukase syndrome] Fushimi T, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):534–9 (Eng. Abstr.) **(Jpn)**

MICROBIOLOGY

Systemic ehrlichiosis presenting as progressive hepatosplenomegaly. Friedman AD, et al. **South Med J** 1997 Jun;90(6):656–60
[Cholangitis with hepatosplenomegaly caused by Xanthomonas maltophilia in a patient with AIDS (letter)] Ortiz Cansado A, et al. **Rev Clin Esp** 1997 May;197(5):382–3 **(Spa)**

PATHOLOGY

[Fever, pulmonary infiltrates and hepatosplenomegaly (clinical conference)] **Rev Clin Esp** 1997 Jun;197(6):456–62 **(Spa)**

HEPATOPOIETIN see **HEPATOCYTE GROWTH FACTOR**

HEPATOPOIETIN A see **HEPATOCYTE GROWTH FACTOR**

HEPATORENAL GLYCOGEN STORAGE DISEASE see **GLYCOGEN STORAGE DISEASE TYPE I**

HEPATORENAL SYNDROME

The hepatorenal syndrome [editorial] Moore K. **Clin Sci (Colch)** 1997 May;92(5):433–43 (116 ref.)

Hepatorenal syndrome: current perspectives. Rawal KK, et al. **J Assoc Physicians India** 1996 Mar;44(3):189–92, 197 (64 ref.)

Hepatorenal failure. Davison AM. **Nephrol Dial Transplant** 1996;11 Suppl 8:24–31 (55 ref.)

[Organic nephropathies in patients with liver diseases] Amoedo ML, et al. **Gastroenterol Hepatol** 1996 Mar; 19(3):167–77 (129 ref.) **(Spa)**

BLOOD

Circadian rhythms of plasma atriopeptin, plasma renin activity and plasma aldosterone in patients with hepatorenal syndrome. Pasqualetti P, et al. **Life Sci** 1997;60(4–5):289–97

COMPLICATIONS

Marked enzymuria after bone marrow transplantation: a correlate of veno-occlusive disease-induced "hepatorenal syndrome". Fink JC, et al. **J Am Soc Nephrol** 1995 Dec; 6(6):1655–60

DRUG THERAPY

[Reversal of hepatorenal syndrome with oral misoprostol. Is the dose the key to the response? (letter)] Casado Caballero FJ, et al. **Gastroenterol Hepatol** 1996 Mar; 19(3):184–5 **(Spa)**

ETIOLOGY

[A case of severe acute hepatorenal failure due to Aeromoas hydrophila septicemia] Yokoba M, et al. **Kansenshogaku Zasshi** 1996 Oct;70(10):1111–5 (Eng. Abstr.) **(Jpn)**

PATHOLOGY

Glomerular and interstitial renal findings in patients with liver cirrhosis with normal renal function. The histomorphometric study. Wągrowska-Danilewicz M, et al. **Gen Diagn Pathol** 1996 May;141(5–6):353–7

PHYSIOPATHOLOGY

Renal and neurohormonal changes following simultaneous administration of systemic vasoconstrictors and dopamine or prostacyclin in cirrhotic patients with hepatorenal syndrome. Saló J, et al. **J Hepatol** 1996 Dec;25(6):916–23

The atrial natriuretic peptide–renin–aldosterone system in hepatorenal syndrome. Pasqualetti P, et al. **Riv Eur Sci Med Farmacol** 1996 Jul–Aug;18(4):137–41

SURGERY

Transjugular intrahepatic portosystemic stent-shunt for hepatorenal syndrome [letter] Brensing KA, et al. **Lancet** 1997 Mar 8;349(9053):697–8

THERAPY

[Therapy of hepatorenal syndrome] Walter E. **Schweiz Rundsch Med Prax** 1997 Jan 21;86(4):102–3 (Eng. Abstr.) **(Ger)**

HEPATOVIRUS

Inactivation of hepatitis A and other enteroviruses during heat treatment (pasteurization). Nissen E, et al. **Biologicals** 1996 Dec;24(4):339–41

An investigation into the possible links between shigellosis and hepatitis A and public water supply disconnections. Fewtrell L, et al. **Public Health** 1997 May;111(3):179–81

Outbreak of hepatitis A in a college traced to contaminated water reservoir in cafeteria. Poonawagul U, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):705–8

Two year old hepatitis A vaccine is as good as new. Rajan E, et al. **Vaccine** 1996 Oct;14(15):1439–41

[Coliphages as indicators of viral pollution of water supply] Nedachin AE, et al. **Gig Sanit** 1996 Sep–Oct;(5):3–6 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Synthesis, lipophilic derivatization and interaction with liposomes of HAV-VP3 (102–121) sequence by using spectroscopic techniques. Garcia M, et al. **Analyst** 1996 Nov;121(11):1583–8

Interaction with phospholipid mono- and bilayers of HAV-VP3 (102–121) sequence by using spectroscopic techniques. Garcia M, et al. **Biomed Chromatogr** 1997 Mar–Apr;11(2):121–3

DRUG EFFECTS

In vitro and ex vivo inhibition of hepatitis A virus 3C proteinase by a peptidyl monofluoromethyl ketone. Morris TS, et al. **Bioorg Med Chem** 1997 May;5(5):797–807

Inhibition of the expression of hepatitis A and B viruses (HAV and HBV) proteins by interferon in a human hepatocarcinoma cell line (PLC/PRF/5). Berthillon P, et al. **J Hepatol** 1996 Jul;25(1):15–9

ENZYMOLOGY

Evaluation of the susceptibility of the 3C proteases of hepatitis A virus and poliovirus to degradation by the ubiquitin-mediated proteolytic system. Gladding RL, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):119–25

Active site properties of the 3C proteinase from hepatitis A virus (a hybrid cysteine/serine protease) probed by Raman spectroscopy. Dinakarpandian D, et al. **Biochemistry** 1997 Apr 22;36(16):4943–8

In vitro and ex vivo inhibition of hepatitis A virus 3C proteinase by a peptidyl monofluoromethyl ketone. Morris TS, et al. **Bioorg Med Chem** 1997 May;5(5):797–807

The refined crystal structure of the 3C gene product from hepatitis A virus: specific proteinase activity and RNA recognition. Bergmann EM, et al. **J Virol** 1997 Mar; 71(3):2436–48

Identification of active-site residues in protease 3C of hepatitis A virus by site-directed mutagenesis. Gosert R, et al. **J Virol** 1997 Apr;71(4):3062–8

In vitro RNA binding of the hepatitis A virus proteinase 3C (HAV 3Cpro) to secondary structure elements within the 5' terminus of the HAV genome. Kusov YY, et al. **RNA** 1997 Mar;3(3):291–302

GENETICS

Detection of hepatitis A virus RNA in oyster meat. Cromeans TL, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2460–3

Site-directed mutagenesis of hepatitis A virus protein 3A: effects on membrane interaction. Beneduce F, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):157–65

Long PCR and its application to hepatitis viruses: amplification of hepatitis A, hepatitis B, and hepatitis C virus genomes. Tellier R, et al. **J Clin Microbiol** 1996 Dec; 34(12):3085–91

Molecular epidemiology of South African strains of hepatitis A virus: 1982–1996. Taylor MB. **J Med Virol** 1997 Apr; 51(4):273–9

Progress toward the development of a genetically engineered attenuated hepatitis A virus vaccine. Funkhouser AW, et al. **J Virol** 1996 Nov;70(11):7948–57

Identification of genetic variants of hepatitis A virus. Goswami BB, et al. **J Virol Methods** 1997 Apr;65(1):95–103

GROWTH & DEVELOPMENT

Growth of hepatitis A virus in murine cells. Takeda Y, et al. **Acta Virol** 1996 Sep;40(4):201–8

IMMUNOLOGY

The seroprevalence of the "total" anti-HAV antibody in the Czech UNPRO Forces (1991–1995). Beran J, et al. **Acta Medica (Hradec Kralove)** 1996;39(1):35–9

AAP develops guidelines for hepatitis A vaccine and immune globulin in children. American Academy of Pediatrics. **Am Fam Physician** 1997 May 15;55(7):2535–6

Analysis of the antibody response in humans with a new inactivated hepatitis A vaccine. Vidor E, et al. **Biologicals** 1996 Sep;24(3):235–42

Prevalence of hepatitis A antibodies in southeastern Spain: a population-based study. García-Fulgueiras A, et al. **Eur J Epidemiol** 1997 Jun;13(4):481–3

Immune response to hepatitis A virus capsid proteins after infection [published erratum appears in J Clin Microbiol 1996 Jun;34(6):1601] Wang CH, et al. **J Clin Microbiol** 1996 Mar;34(3):707–13

Analysis of serum hepatitis A virus antibody response in different courses of hepatitis A virus infection. Sata M, et al. **J Gastroenterol** 1996 Dec;31(6):812–7

Persistence of antibodies after inactivated hepatitis A vaccines in a comparative study [letter] Goilav C, et al. **J Infect** 1997 Mar;34(2):158

Immunoprecipitation and virus neutralization assays demonstrate qualitative differences between protective antibody responses to inactivated hepatitis A vaccine and passive immunization with immune globulin. Lemon SM, et al. **J Infect Dis** 1997 Jul;176(1):9–19

Immunogenicity and efficacy of a killed hepatitis A vaccine in day care center children. Richtmann R, et al. **J Med Virol** 1996 Feb;48(2):147–50

Prevalence of immunity to hepatitis A in recruits to the British Army and Royal Air Force. Cumberland NS, et al. **J R Army Med Corps** 1994 Jun;140(2):71–5

Placental transfer of hepatitis A antibodies in full term and preterm infants. Linder N, et al. **Pediatr Infect Dis J** 1997 Feb;16(2):245–7

Risk factors and prevalence of antibodies against hepatitis A virus (HAV) in children from day-care centers, in Goiania, Brazil. Queiróz DA, et al. **Rev Inst Med Trop Sao Paulo** 1995 Sep–Oct;37(5):427–33

Age-specific prevalence of hepatitis A antibody in Thai children. Kalayanarooj S, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):709–11

Immunogenicity of an inactivated hepatitis A vaccine in Dutch United Nations troops. Hopperus Buma AP, et al. **Vaccine** 1997 Aug–Sep;15(12–13):1413–7

Critical value of prevalence for vaccination programmes. The case of hepatitis A vaccination in Spain. Plans Rubió P. **Vaccine** 1997 Aug–Sep;15(12–13):1445–50

[Prevalence of hepatitis A virus antibodies in food handlers] Romano F, et al. **Ann Ig** 1996 Jul–Aug;8(4):419–23 (Eng. Abstr.) **(Ita)**

[Seroprevalence of hepatitis A antibodies in patients with chronic hepatitis (letter)] Bañares R, et al. **Gastroenterol Hepatol** 1996 Mar;19(3):183 **(Spa)**

[The immune status against hepatitis A virus in medical residents (letter)] Benito Ruesca R, et al. **Med Clin (Barc)** 1997 Jul 5;109(6):236–7 **(Spa)**

[The prevalence of markers for the hepatitis A and B viruses in the population of Gijón between 6 and 25 years old] Suárez A, et al. **Med Clin (Barc)** 1996 Apr 6;106(13):491–4 (Eng. Abstr.) **(Spa)**

ISOLATION & PURIFICATION

Detection of hepatitis A virus RNA in oyster meat. Cromeans TL, et al. **Appl Environ Microbiol** 1997 Jun;63(6):2460–3

Three-step isolation method for sensitive detection of enterovirus, rotavirus, hepatitis A virus, and small round structured viruses in water samples. Gilgen M, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):189–99

Rotavirus and hepatitis A virus in market lettuce (Latuca sativa) in Costa Rica. Hernández F, et al. **Int J Food Microbiol** 1997 Jul 22;37(2–3):221–3

Hepatitis A infrequent food link, but of concern... [news] Reed CA, et al. **J Am Vet Med Assoc** 1997 May 15; 210(10):1398

Study of transmission routes of Helicobacter pylori in relation to seroprevalence of hepatitis A virus. Furuta T, et al. **J Clin Microbiol** 1997 Jul;35(7):1891–3

New, ultrasensitive enzyme immunoassay for detecting vaccine- and disease-induced hepatitis A virus-specific immunoglobulin G in saliva. Ochnio JJ, et al. **J Clin Microbiol** 1997 Jan;35(1):98–101

A community prevalence study of antibodies to hepatitis A and E in inner-city London. Bernal W, et al. **J Med Virol** 1996 Jul;49(3):230–4

A novel cytopathic microtitre plate assay for hepatitis A virus and anti-hepatitis A neutralizing antibodies. Beales LP, et al. **J Virol Methods** 1996 May;59(1–2):147–54

Sequence-specific, single-primer amplification and detection of PCR products for identification of hepatitis viruses. Nainan OV, et al. **J Virol Methods** 1996 Sep;61(1–2):127–34

New molecular methods for the detection of hepatitis A and Norwalk viruses in shellfish. Romalde JL. **Microbiologia** 1996 Dec;12(4):547–56 (39 ref.)

[Preparation and characteristics of cultured strains of hepatitis A virus from humans and monkeys] Korzaia LI, et al. **Vopr Virusol** 1997 Mar–Apr;42(2):60–3 (Eng. Abstr.) **(Rus)**

METABOLISM

Identification of a surface glycoprotein on African green monkey kidney cells as a receptor for hepatitis A virus. Kaplan G, et al. **EMBO J** 1996 Aug 15;15(16):4282–96

Molecular cloning of the hepatitis A virus receptor from a simian cell line. Ashida M, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1565–9

Proteinase 3C-mediated processing of VP1-2A of two hepatitis A virus strains: in vivo evidence for cleavage at amino acid position 273/274 of VP1. Probst C, et al. **J Virol** 1997 Apr;71(4):3288–92

PHYSIOLOGY

Influence of the 5' noncoding region of hepatitis A virus strain GBM on its growth in different cell lines. Graff J, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1841–9

Chronic hepatitis A with persistent viral replication. Inoue K, et al. **J Med Virol** 1996 Dec;50(4):322–4

The attachment receptor for hepatitis A virus. Locarnini S. **Trends Microbiol** 1997 Feb;5(2):45–7; discussion 47–8 (17 ref.)

RADIATION EFFECTS

Virucidal treatment of blood protein products with UVC radiation. Chin S, et al. **Photochem Photobiol** 1997 Mar; 65(3):432–5

HEPES

PHARMACOLOGY

Inhibitory effect of internal sodium and Hepes on the voltage-dependent potassium conductance of rat Leydig cells. Desaphy JF, et al. **Biochim Biophys Acta** 1996 Nov 13;1285(1):9–13

Ionic basis of the membrane potential responses of rat dorsal vagal motoneurones to HEPES buffer. Cowan AI, et al. **Brain Res** 1996 Apr 22;717(1–2):69–75

HEPTACHLOR

TOXICITY

The organochlorine pesticide heptachlor disrupts the structure of model and cell membranes. Suwalsky M, et al. **Biochim Biophys Acta** 1997 May 22;1326(1):115–23

HEPTACHLOR EPOXIDE

METABOLISM

Organochlorine pesticide contamination in neotropical

migrant passerines. Harper RG, et al.
Arch Environ Contam Toxicol 1996 Oct;31(3):386–90

TOXICITY

Accumulation of chlordanes in adipose tissues of mice caused by long-term exposure of low level technical chlordane. Asakawa F, et al. **Bull Environ Contam Toxicol** 1996 Dec; 57(6):909–16

HEPTANES

PHARMACOKINETICS

Comparative estimation of the neurotoxic risks of N-hexane and N-heptane in rats and humans based on the formation of the metabolites 2,5-hexanedione and 2,5-heptanedione. Filser JG, et al. **Adv Exp Med Biol** 1996;387:411–27

TOXICITY

Comparative estimation of the neurotoxic risks of N-hexane and N-heptane in rats and humans based on the formation of the metabolites 2,5-hexanedione and 2,5-heptanedione. Filser JG, et al. **Adv Exp Med Biol** 1996;387:411–27

HEPTANOATES

PHARMACOLOGY

Importance of haem biosynthesis in the control of intestinal iron absorption. Laftah A, et al. **Biochem Soc Trans** 1997 Feb;25(1):58S

Characterization of a recombinant pea 5-aminolevulinic acid dehydratase and comparative inhibition studies with the Escherichia coli dehydratase. Cheung KM, et al.
Biochemistry 1997 Feb 4;36(5):1148–56

Hepatic 5-aminolevulinic acid synthase mRNA stability is modulated by inhibitors of heme biosynthesis and by metalloporphyrins. Cable EE, et al. **Eur J Biochem** 1996 Aug 15;240(1):112–7

HEPTANOIC ACIDS

ADMINISTRATION & DOSAGE

Efficacy of atorvastatin in primary hypercholesterolemia. Japan Cholesterol Lowering Atorvastatin Study (J-CLAS) Group. **Am J Cardiol** 1997 May 1;79(9):1248–52

METABOLISM

Influence of carbon chain length on the hepatic effects of perfluorinated fatty acids. A 19F- and 31P-NMR investigation. Goecke-Flora CM, et al.
Chem Res Toxicol 1996 Jun;9(4):689–95

Identification of cytochromes P450 involved in the human liver microsomal metabolism of the thromboxane A2 inhibitor seratrodast (ABT-001). Kumar GN, et al.
Drug Metab Dispos 1997 Jan;25(1):110–5

PHARMACOKINETICS

Pharmacodynamic effects and pharmacokinetics of atorvastatin after administration to normocholesterolemic subjects in the morning and evening. Cilla DD Jr, et al.
J Clin Pharmacol 1996 Jul;36(7):604–9

Tolerance and pharmacokinetics of single-dose atorvastatin, a potent inhibitor of HMG-CoA reductase, in healthy subjects. Posvar EL, et al. **J Clin Pharmacol** 1996 Aug; 36(8):728–31

PHARMACOLOGY

Plasma mevalonic acid, an index of cholesterol synthesis in vivo, and responsiveness to HMG-CoA reductase inhibitors in familial hypercholesterolaemia. Naoumova RP, et al. **Atherosclerosis** 1996 Jan 26;119(2):203–13

The potent inhibition of vapiprost, a novel thromboxane A2 receptor antagonist, on the secondary aggregation and ATP release of human platelets. Horie S, et al.
Biol Pharm Bull 1997 Jun;20(6):625–31

Modulation of sensitivity to cis-diamminedichloroplatinum (II) by thromboxane A2 receptor antagonists in non-small-cell lung cancer cell lines. Kasahara K, et al.
Br J Cancer 1996 Nov;74(10):1553–8

The haemodynamic effects of GR 32191, a thromboxane A2 receptor antagonist, in patients with renal artery stenosis and hypertension. Lyons D, et al. **Br J Clin Pharmacol** 1993 Sep;36(3):271–3

Multiple-dose pharmacokinetics, pharmacodynamics, and safety of atorvastatin, an inhibitor of HMG-CoA reductase, in healthy subjects. Cilla DD Jr, et al.
Clin Pharmacol Ther 1996 Dec;60(6):687–95

Thromboxane A2-receptor blockade improves cerebral protection for deep hypothermic circulatory arrest. Tsui SS, et al. **Eur J Cardiothorac Surg** 1997 Aug;12(2):228–35

Fertility and general reproduction studies in rats with the HMG-CoA reductase inhibitor, atorvastatin. Dostal LA, et al. **Fundam Appl Toxicol** 1996 Aug;32(2):285–92

Rate of low-density lipoprotein cholesterol and apolipoprotein B changes on initiation and discontinuation of atorvastatin treatment. Stern RH, et al.
J Clin Pharmacol 1997 Apr;37(4):291–6

Hypocholesterolemic actions of atorvastatin are associated with alterations on hepatic cholesterol metabolism and lipoprotein composition in the guinea pig. Conde K, et al.
J Lipid Res 1996 Nov;37(11):2372–82

Prolonged inhibition of cholesterol synthesis explains the efficacy of atorvastatin. Naoumova RP, et al.
J Lipid Res 1997 Jul;38(7):1496–500

THERAPEUTIC USE

A multicenter, double-blind, one-year study comparing safety and efficacy of atorvastatin versus simvastatin in patients with hypercholesterolemia. Dart A, et al.
Am J Cardiol 1997 Jul 1;80(1):39–44

Comparison of one-year efficacy and safety of atorvastatin versus lovastatin in primary hypercholesterolemia. Atorvastatin Study Group I. Davidson M, et al.
Am J Cardiol 1997 Jun 1;79(11):1475–81

Effectiveness of atorvastatin for reducing low-density lipoprotein cholesterol to National Cholesterol Education Program treatment goals. Davidson MH, et al.
Am J Cardiol 1997 Aug 1;80(3):347–8

Atorvastatin: an effective lipid-modifying agent in familial hypercholesterolemia. Marais AD, et al.
Arterioscler Thromb Vasc Biol 1997 Aug;17(8):1527–31

Effect of a new HMG-CoA reductase inhibitor, atorvastatin, on lipids, apolipoproteins and lipoprotein particles in patients with elevated serum cholesterol and triglyceride levels. Alaupovic P, et al. **Atherosclerosis** 1997 Aug; 133(1):123–33

A brief review paper of the efficacy and safety of atorvastatin in early clinical trials. Bakker-Arkema RG, et al.
Atherosclerosis 1997 May;131(1):17–23 (31 ref.)

Efficacy and safety of atorvastatin compared to pravastatin in patients with hypercholesterolemia. Bertolini S, et al.
Atherosclerosis 1997 Apr;130(1–2):191–7

The lipid-lowering effects of atorvastatin, a new HMG-CoA reductase inhibitor: results of a randomized, double-masked study. Heinonen TM, et al. **Clin Ther** 1996 Sep-Oct; 18(5):853–63

Atorvastatin. A review of its pharmacology and therapeutic potential in the management of hyperlipidaemias. Lea AP, et al. **Drugs** 1997 May;53(5):828–47 (133 ref.)

Atorvastatin—a new lipid-lowering drug.
Med Lett Drugs Ther 1997 Mar 28;39(997):29–31

[Lowering cholesterol. New concepts with atorvastatin]
Internist (Berl) 1997 Jan;38(1 Suppl):1–8 **(Ger)**

[Thromboxane A2 receptor antagonist in asthma therapy] Endo S, et al. **Nippon Rinsho** 1996 Nov;54(11):3045–8 (15 ref.) (Eng. Abstr.) **(Jpn)**

TOXICITY

Subchronic toxicity of atorvastatin, a hydroxymethylglutaryl-coenzyme A reductase inhibitor, in beagle dogs. Walsh KM, et al. **Toxicol Pathol** 1996 Jul-Aug;24(4):468–76

HEPTOSES

CHEMISTRY

Synthesis of L-glycero-D-manno-heptopyranose-containing oligosaccharide structures found in lipopolysaccharides from Haemophilus influenzae. Bernlind C, et al.
Carbohydr Res 1997 Jan 17;297(3):251–60

[Synthesis and characteristics of five phosphates of L-glycero-D-manno-heptose] Grzeszczyk B, et al.
Postepy Hig Med Dosw 1996;50(5):483–91 (Eng. Abstr.) **(Pol)**

HER-2 PROTO-ONCOGENE PROTEINS see **PROTO-ONCOGENE PROTEINS C-ERBB-2**

HERALDRY see **GENEALOGY AND HERALDRY**

HERBAL TEAS see **BEVERAGES**

HERBALISM see **MEDICINE, HERBAL**

HERBICIDES

Serum dioxin, testosterone, and gonadotropins in veterans of Operation Ranch Hand [letter; comment] Henriksen GL, et al. **Epidemiology** 1996 Jul;7(4):454–5. Comment on: Epidemiology 1996 Jul;7(4):352–7.

Serum dioxin, testosterone, and gonadotropins in veterans of Operation Ranch Hand [see comments] Henriksen GL, et al. **Epidemiology** 1996 Jul;7(4):352–7. Comment in: Epidemiology 1996 Jul;7(4):454–5.

Product stewardship of Paraquat in Indonesia. Kurniawan AN. **Int Arch Occup Environ Health** 1996;68(6):516–8

["Primary" and "secondary" dioxin pollution of South Vietnam] Sokolov VE, et al. **Dokl Akad Nauk** 1996 Dec; 351(6):847–9 **(Rus)**

ADVERSE EFFECTS

Cytogenetic effects of the herbicide chloridazon in cultured sheep lymphocytes. Siviková K, et al. **Acta Vet Hung** 1997; 45(1):11–6

Cancer mortality in workers exposed to phenoxy herbicides, chlorophenols, and dioxins. An expanded and updated international cohort study. Kogevinas M, et al.
Am J Epidemiol 1997 Jun 15;145(12):1061–75

Re: "Exposure to polychlorinated dioxins and furans (PCDD/F) and mortality in a cohort of workers from a herbicide-producing plant in Hamburg, Federal, Republic of Germany" [letter; comment] Swaen GM.
Am J Epidemiol 1997 Aug 15;146(4):361–3. Comment on: Am J Epidemiol 1995 Dec 1;142(11):1165–75.

Cancer incidence among alachlor manufacturing workers. Leet T, et al. **Am J Ind Med** 1996 Sep;30(3):300–6

Allergic contact dermatitis from norflurazon (Predict). Leow YH, et al. **Contact Dermatitis** 1996 Dec;35(6):369–70

Occupational depigmentation from dinoterbe. Sabouraud S, et al. **Contact Dermatitis** 1997 Apr;36(4):227

Evaluation of mortality and cancer incidence among alachlor manufacturing workers. Acquavella JF, et al.
Environ Health Perspect 1996 Jul;104(7):728–33

Alterations in steroidogenesis in alligators (Alligator mississippiensis) exposed naturally and experimentally to environmental contaminants. Crain DA, et al.
Environ Health Perspect 1997 May;105(5):528–33

Intrauterine growth retardation in Iowa communities with herbicide-contaminated drinking water supplies. Munger R, et al. **Environ Health Perspect** 1997 Mar;105(3):308–14

Evaluation of the potential carcinogenicity and genetic toxicity to humans of the herbicide acetochlor [see comments] Ashby J, et al. **Hum Exp Toxicol** 1996 Sep; 15(9):702–35. Comment in: Hum Exp Toxicol 1997 Apr;16(4):186–7. Comment in: Hum Exp Toxicol 1997 Apr;16(4):188. Comment in: Hum Exp Toxicol 1997 Apr;16(4):189.

2,4-dichlorophenoxyacetic acid through lactation induces astrogliosis in rat brain. Brusco A, et al.
Mol Chem Neuropathol 1997 Apr;30(3):175–85

[Herbicides and neoplasms of the hemolymphopoietic system] Stagnaro E, et al. **G Ital Med Lav** 1995 Jan-Nov; 17(1–6):17–8 (Eng. Abstr.) **(Ita)**

ANALYSIS

Screen-printed biosensors for environmental applications [news] **Anal Chem** 1996 Dec 1;68(23):711A

Determination of the metabolites of the herbicide dimethyl tetrachloroterephthalate in drinking water by high-performance liquid chromatography with gas chromatography/mass spectrometry confirmation. Carpenter RA, et al. **Anal Chem** 1997 Aug 15; 69(16):3314–20

Solid-phase extraction coupled with electrochemical detection for the determination of the herbicide bromofenoxim in water samples at low- and sub-microgram l-1 levels. Svegl IG, et al. **Analyst** 1996 Dec;121(12):1839–43

Development of an amperometric flow injection immunoanalysis system for the determination of the herbicide 2,4-dichlorophenoxyacetic acid in water. Trau D, et al. **Biosens Bioelectron** 1997;12(6):499–510

Cross-reactivity analysis using a four-parameter model applied to environmental immunoassays. Fare TL, et al.
Bull Environ Contam Toxicol 1996 Sep;57(3):367–74

Use of ELISA immunoassay kits as a complement to HPLC analysis of imazapyr and triclopyr in water samples from forest watersheds. Fischer JB, et al.
Bull Environ Contam Toxicol 1997 Oct;59(4):611–8

Residues of forestry herbicides in plants of importance to California Native Americans. Segawa R, et al.
Bull Environ Contam Toxicol 1997 Oct;59(4):556–63

Time-related analysis of alachlor concentrations in Florida wells. Simons AP, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):934–8

Levels of the herbicide glyphosate in well water. Smith NJ, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):759–65

Rapid method for analysis of chloroacetanilide and chloronitrophenoxyaniline herbicides by gas chromatography. Dhouib M, et al.
Cent Eur J Public Health 1996;4 Suppl:51–2

Stereoselective analysis of herbicides by capillary electrophoresis using sulfobutyl ether beta-cyclodextrin as chiral selector. Desiderio C, et al. **Electrophoresis** 1997 Feb; 18(2):227–34

Capillary electrophoresis of herbicides: IV. Evaluation of octylmaltopyranoside chiral surfactant in the enantiomeric separation of fluorescently labeled phenoxy acid herbicides and their laser-induced fluorescence detection. Mechref Y, et al. **Electrophoresis** 1997 Feb;18(2):220–6

Spectrophotometric method for determination of paraquat in food and biological samples. Kesari R, et al.
J AOAC Int 1997 Mar-Apr;80(2):388–91

Rapid target analysis of microcontaminants in water by on-line single-short-column liquid chromatography combined with atmospheric pressure chemical ionization tandem mass spectrometry. Hogenboom AC, et al.
J Chromatogr A 1997 Aug 8;777(1):81–90

Extraction of maleic hydrazide residues from potato crisps and their determination using high-performance liquid chromatography with UV and atmospheric pressure chemical ionisation mass spectrometric detection. Lewis DJ, et al. **J Chromatogr A** 1996 Oct 25;750(1–2):391–6

Determination of phenoxy acid herbicides in vegetation, utilising high-resolution gel permeation chromatographic clean-up and methylation with trimethylsilyldiazomethane prior to gas chromatographic analysis with mass-selective detection. Rimmer DA, et al. **J Chromatogr A** 1996 Dec 6;755(2):245–50

Determination of cereal herbicide residues in environmental samples by gas chromatography. Tadeo JL, et al. **J Chromatogr A** 1996 Nov 22;754(1-2):347-65 (189 ref.)

High-performance liquid chromatographic study of the aromatic nitrile metabolism in soil bacteria. Gabriel J, et al. **J Chromatogr B Biomed Appl** 1996 May 31;681(1):191-5

Simple method for analysis of diquat in biological fluids and tissues by high-performance liquid chromatography. Madhu C, et al. **J Chromatogr B Biomed Appl** 1995 Dec 15;674(2):193-6

Recall of Philip Morris cigarettes, May 1995-March 1996 [published erratum appears in MMWR Morb Mortal Wkly Rep 1996 Apr 26;45(16):335] **MMWR Morb Mortal Wkly Rep** 1996 Mar 29;45(12):251-4

Occurrence of organochlorines (PCBs, pesticides) and herbicides (triazines, phenylureas) in the atmosphere and in the fallout from urban and rural stations of the Paris area. Chevreuil M, et al. **Sci Total Environ** 1996 Apr 5; 182(1-3):25-37

A new non-radioactive assay of phytoene desaturase to evaluate bleaching herbicides. Sandmann G, et al. **Z Naturforsch [C]** 1996 Jul-Aug;51(7-8):534-8

CHEMICAL SYNTHESIS

6-Alkyl and 6-arylcarbamoyloximino pyrazolo[3,4-b][1,4]diazepines as potential fungicidal, insecticidal and herbicidal agents. Vicentini CB, et al. **Farmaco** 1996 Aug-Sep;51(8-9):609-12

Discovery of a herbicidal lead using polymer-bound activated esters in generating a combinatorial library of amides and esters. Parlow JJ, et al. **Mol Divers** 1996 Aug; 1(4):266-9

CHEMISTRY

Protoporphyrinogen oxidase: high affinity tetrahydrophthalimide radioligand for the inhibitor/herbicide-binding site in mouse liver mitochondria. Birchfield NB, et al. **Chem Res Toxicol** 1996 Oct-Nov;9(7):1135-9

Capillary electrophoresis of herbicides. III. Evaluation of octylmaltopyranoside chiral surfactant in the enantiomeric separation of phenoxy acid herbicides. Mechref Y, et al. **Chirality** 1996;8(7):518-524

A kinetic study of the methanolysis of the sulfonylureas bensulfuron methyl and sulfometuron methyl using capillary electrophoresis. Matchett WH, et al. **Electrophoresis** 1997 Feb;18(2):205-13

The crystal structure of plant acetohydroxy acid isomeroreductase complexed with NADPH, two magnesium ions and a herbicidal transition state analog determined at 1.65 A resolution. Biou V, et al. **EMBO J** 1997 Jun;16(12):3405-15

Chemical structure of descriptors with an active hydrogen atom in certain bioregulators. Kurchii BA. **Ukr Biokhim Zh** 1996 Jan-Feb;68(1):3-13 (29 ref.)

ISOLATION & PURIFICATION

Capillary electrophoresis of herbicides. III. Evaluation of octylmaltopyranoside chiral surfactant in the enantiomeric separation of phenoxy acid herbicides. Mechref Y, et al. **Chirality** 1996;8(7):518-524

METABOLISM

Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from Bacillus stearothermophilus, cloning of the corresponding gene, aspC, and application in a coupled transaminase process. Bartsch K, et al. **Appl Environ Microbiol** 1996 Oct; 62(10):3794-9

Pristine environments harbor a new group of oligotrophic 2,4-dichlorophenoxyacetic acid-degrading bacteria. Kamagata Y, et al. **Appl Environ Microbiol** 1997 Jun; 63(6):2266-72

Complete microbial degradation of both enantiomers of the chiral herbicide mecoprop [(RS)-2-(4-chloro-2-methylphenoxy)propionic acid] in an enantioselective manner by Sphingomonas herbicidovorans sp. nov. Zipper C, et al. **Appl Environ Microbiol** 1996 Dec; 62(12):4318-22

Effect of subsurface drains on runoff losses of metolachlor and trifluralin from Mississippi River alluvial soil. Southwick LM, et al. **Arch Environ Contam Toxicol** 1997 Jan;32(1):106-9

Detection of two metabolites of diquat in urine and serum of poisoned patients after ingestion of a combined herbicide of paraquat and diquat. Fuke C, et al. **Arch Toxicol** 1996; 70(8):504-7

Plant glutathione S-transferases and herbicide detoxification. Neuefeind T, et al. **Biol Chem** 1997 Mar-Apr; 378(3-4):199-205 (55 ref.)

Sorption of herbicides butachlor, thiobencarb, and chlomethoxyfen in soils. Chiang HC, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):758-63

Studies on degradation of 14C-nitrofen in soils under moist and flooded conditions using a continuous flow system in the laboratory. Kale SP, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):72-5

Residues of maleic hydrazide and chlorpropham in potato chips. Nagami H. **Bull Environ Contam Toxicol** 1997 May; 58(5):764-8

[14]C acrolein accumulation and metabolism in leaf lettuce. Nordone AJ, et al. **Bull Environ Contam Toxicol** 1997 May; 58(5):787-92

Enhanced soil biodegradation of prosulfocarb herbicide in barley crop. Rouchaud J, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):752-7

Soil dissipation of the post-emergence herbicide sulcotrione in maize crops treated with organic fertilizers. Rouchaud J, et al. **Bull Environ Contam Toxicol** 1996 Sep; 57(3):398-405

Atrazine movement and dissipation in a sandy loam soil under irrigation: an immunoenzymatic study. Tasli S, et al. **Bull Environ Contam Toxicol** 1996 Mar;56(3):359-66

Isolation and characterization of soil microorganisms capable of utilizing the herbicide diclofop-methyl as a sole source of carbon and energy. Smith-Greeier LL, et al. **Can J Microbiol** 1996 Mar;42(3):221-6

Cellular toxicity of 2,4,5-trichlorophenoxyacetic acid: formation of 2,4,5-trichlorophenoxyacetylcholine. Sastry BV, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jun; 43(4):549-57

Metabolism of herbicides by cytochrome P450 in corn. Barrett M. **Drug Metabol Drug Interact** 1995; 12(3-4):299-315 (33 ref.)

Wheat microsomal cytochrome P450 monooxygenases: characterization and importance in the metabolic detoxification and selectivity of wheat herbicides. Frear DS. **Drug Metabol Drug Interact** 1995;12(3-4):329-57 (77 ref.)

Characterization of an intradiol dioxygenase involved in the biodegradation of the chlorophenoxy herbicides 2,4-D and 2,4,5-T. Travkin VM, et al. **FEBS Lett** 1997 Apr 21; 407(1):69-72

Different energization mechanisms drive the vacuolar uptake of a flavonoid glucoside and a herbicide glucoside. Klein M, et al. **J Biol Chem** 1996 Nov 22;271(47):29666-71

Acetochlor-a comparative study on parameters governing the potential for water pollution. Balinova AM. **J Environ Sci Health B** 1997 Sep;32(5):645-58

Biliary elimination of oral 2,4-dichlorophenoxyacetic acid and its metabolites in male and female Sprague-Dawley rats, B6C3F1 mice, and Syrian hamsters. Griffin RJ, et al. **J Toxicol Environ Health** 1997 Jul;51(4):401-13

Analysis of herbicide metabolism by monocot microsomal cytochrome P450. Lau SM, et al. **Methods Enzymol** 1996; 272:235-42

Xenobiotic biotransformation in unicellular green algae. Involvement of cytochrome P450 in the activation and selectivity of the pyridazinone pro-herbicide metflurazon. Thies F, et al. **Plant Physiol** 1996 Sep;112(1):361-70

Modeling of the D1/D2 proteins and cofactors of the photosystem II reaction center: implications for herbicide and bicarbonate binding. Xiong J, et al. **Protein Sci** 1996 Oct;5(10):2054-73

Nuclear magnetic resonance timecourse studies of glyphosate metabolism by microbial soil isolates. Gard JK, et al. **Xenobiotica** 1997 Jul;27(7):633-44

PHARMACOKINETICS

The urinary excretion of arsenic metabolites after a single oral administration of dimethylarsinic acid to rats. Yoshida K, et al. **Arch Environ Contam Toxicol** 1997 May; 32(4):416-21

14C-Residues of trifluralin in a soil and their uptake by carrots. Tiryaki O, et al. **Bull Environ Contam Toxicol** 1997 Jul;59(1):58-64

In vivo percutaneous absorption of acetochlor in the rhesus monkey: dose-response and exposure risk assessment. Wester RC, et al. **Food Chem Toxicol** 1996 Oct; 34(10):979-83

In vitro percutaneous absorption of model compounds glyphosate and malathion from cotton fabric into and through human skin. Wester RC, et al. **Food Chem Toxicol** 1996 Aug;34(8):731-5

Comparative pharmacokinetics of [14C]metosulam (N-[2,6-dichloro-3-methylphenyl]-5,7-dimethoxy-1,2,4-triazolo[1,5a]-pyrimidine-2-sulfonamide) in rats, mice and dogs. Timchalk C, et al. **J Appl Toxicol** 1997 Jan-Feb; 17(1):9-21

Transport of paraquat in a renal epithelial cell line LLC-PK1. Chan BS, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):625-32

Pharmacokinetics of triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid) in the beagle dog and rhesus monkey: perspective on the reduced capacity of dogs to excrete this organic acid relative to the rat, monkey, and human. Timchalk C, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):268-78

PHARMACOLOGY

Formation of tomatine in tomato plants infected with Streptomyces species and treated with herbicides, correlated with reduction of Pseudomonas solanacearum and Fusarium oxysporum f. sp. lycopersici. El-Raheem A, et al. **Acta Microbiol Pol** 1995;44(3-4):255-66

Studies of the phytotoxicity of saponins on weed and crop plants. Hoagland RE, et al. **Adv Exp Med Biol** 1996; 405:57-73 (68 ref.)

DNA single-strand breaks in L-132 cells resulting from inhibition of repair polymerization shortly after exposure to dimethylarsinic acid. Yamanaka K, et al. **Biol Pharm Bull** 1997 Feb;20(2):163-7

Preparation and activity of complexes of transition metals and thiolic heterocyclic ligands. Certi Mazza MT, et al. **Boll Soc Ital Biol Sper** 1996 Mar-Apr;72(3-4):79-86

Hydrogen peroxide-induced impairment of reactivity in rat isolated aorta: potentiation by 3-amino-1,2,4-triazole. Mian KB, et al. **Br J Pharmacol** 1997 Jun;121(4):813-9

Characterization of the interaction of 2-[2-nitro-4-(trifluoromethyl)benzoyl]-4,4,6,6,-tetramethyl- cyclohexane-1,3,5-trione with rat hepatic 4-hydroxyphenylpyruvate dioxygenase. Ellis MK, et al. **Chem Res Toxicol** 1996 Jan-Feb;9(1):24-27

Genotoxicity of humic acid in cultured human lymphocytes and its interaction with the herbicides alachlor and maleic hydrazide. Ribas G, et al. **Environ Mol Mutagen** 1997; 29(3):272-6

Dynamic changes in the state of actin polymerization in human alveolar cells exposed to the oxidant agent paraquat. Cappelletti G, et al. **Eur J Cell Biol** 1996 Nov;71(3):293-302

Paraquat inhibits the processing of human manganese-dependent superoxide dismutase by SF-9 insect cell mitochondria. Wright G, et al. **Exp Cell Res** 1997 Jul 10;234(1):78-84

Inhibition of Toxoplasma gondii replication by dinitroaniline herbicides. Stokkermans TJ, et al. **Exp Parasitol** 1996 Dec; 84(3):355-70

Paraquat induces actin assembly in depolymerizing conditions. Milzani A, et al. **FASEB J** 1997 Mar; 11(4):261-70

A single mutation in the M-subunit of Rhodospirillum rubrum confers herbicide resistance. Sopp G, et al. **FEBS Lett** 1997 Jun 16;409(3):343-6

In vitro anticryptosporidial activity of dinitroaniline herbicides. Arrowood MJ, et al. **FEMS Microbiol Lett** 1996 Mar 1;136(3):245-9

2, 4-dichloro phenoxy acetic acid alters monoamine levels, acetylcholinesterase activity & operant learning in rats. Lakshmana MK, et al. **Indian J Med Res** 1996 Sep; 104:234-9

Dechlorogeodin and its new dihydro derivatives, fungal metabolites with herbicidal activity. Tanaka Y, et al. **J Antibiot (Tokyo)** 1996 Oct;49(10):1056-9

Upregulation of glucose-6-phosphate dehydrogenase in response to hepatocellular oxidative stress: studies with diquat. Cramer CT, et al. **J Biochem Toxicol** 1995 Dec; 10(6):293-8

Overexpression of mdr2 gene by peroxisome proliferators in the mouse liver. Miranda S, et al. **J Hepatol** 1997 Jun; 26(6):1331-9

Influence of the herbicide bentazon on soil microbial community. Allievi L, et al. **Microbiol Res** 1996 Mar; 151(1):105-11

Discovery of a herbicidal lead using polymer-bound activated esters in generating a combinatorial library of amides and esters. Parlow JJ, et al. **Mol Divers** 1996 Aug; 1(4):266-9

Adenylosuccinate synthetase: site of action of hydantocidin, a microbial phytotoxin. Siehl DL, et al. **Plant Physiol** 1996 Mar;110(3):753-8

Comparison of the induction of hepatic peroxisome proliferation by the herbicide oxadiazon in vivo in rats, mice, and dogs and in vitro in rat and human hepatocytes. Richert L, et al. **Toxicol Appl Pharmacol** 1996 Nov; 141(1):35-43

A new non-radioactive assay of phytoene desaturase to evaluate bleaching herbicides. Sandmann G, et al. **Z Naturforsch [C]** 1996 Jul-Aug;51(7-8):534-8

POISONING

Homicidal poisoning by paraquat. Stephens BG, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):33-9 (3 ref.)

Propanil poisoning. De Silva WA, et al. **Ceylon Med J** 1997 Jun;42(2):81-4

Effects of Fuller's Earth and activated charcoal on oral absorption of paraquat in rabbits. Idid SZ, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):679-81

Hemodialysis and hemoperfusion in the successful treatment of a poisoning with a herbicide containing glufosinate ammonium and a surfactant [letter] Shinohara M, et al. **Clin Nephrol** 1997 Jul;48(1):61

Severe intoxication following ingestion of 2,4-D and MCPP [letter] Berthelot-Moritz F, et al. **Intensive Care Med** 1997 Mar;23(3):356-7

Suspected herbicide toxicosis in a dog. Harrington ML, et al. **J Am Vet Med Assoc** 1996 Dec 15;209(12):2085-7

Massive ingestion of the herbicide 2-methyl-4-chlorophenoxyacetic acid (MCPA). Schmoldt A, et al. **J Toxicol Clin Toxicol** 1997;35(4):405-8

Pulmonary dysfunction in survivors of acute paraquat poisoning. Bismuth C, et al. **Vet Hum Toxicol** 1996 Jun; 38(3):220-2

[Late pseudo-appendicular syndrome after Roundup poisoning (letter)] Delcenserie R, et al. **Gastroenterol Clin Biol** 1997;21(5):435-7 **(Fre)**

[Human poisonings caused by agents used for plant protection in 1995] Przybylska A. **Przegl Epidemiol** 1997; 51(1-2):119-28 **(Pol)**

TOXICITY

Toxicity of the herbicides Flubalex, Fusilade S and Maloran 50 WP to chicken embryos after administration as single

compounds or in combination. Várnagy L, et al. **Acta Vet Hung** 1996;44(3):363–76

Comparative sensitivity of Selenastrum capricornutum and Lemna minor to sixteen herbicides. Fairchild JF, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):353–7

Effects of 2,4–dichlorophenoxyacetic acid on Kentucky algae: simultaneous laboratory and field toxicity testings. Kobraei ME, et al. **Arch Environ Contam Toxicol** 1996 Nov; 31(4):571–80

Acute and chronic toxicity of the herbicide Stam M–4 in field and laboratory exposures. Moore MT, et al. **Arch Environ Contam Toxicol** 1997 Aug;33(2):199–202

In vivo genotoxicity of selected herbicides in the mouse bone–marrow micronucleus test. Gebel T, et al. **Arch Toxicol** 1997;71(3):193–7

Paraquat causes S–phase arrest of rat liver and lung cells in vivo. Matsubara M, et al. **Arch Toxicol** 1996;70(8):514–8

Dimethylarsinic acid causes apoptosis in HL–60 cells via interaction with glutathione. Ochi T, et al. **Arch Toxicol** 1996;70(12):815–21

Effects of paraquat on mitochondrial electron transport system and catecholamine contents in rat brain. Tawara T, et al. **Arch Toxicol** 1996;70(9):585–9

Paraquat toxicity and oxidative damage. Reduction by melatonin. Melchiorri D, et al. **Biochem Pharmacol** 1996 Apr 26;51(8):1095–9

Alleviation of paraquat–induced lung injury by pretreatment with bifunctional liposomes containing alpha–tocopherol and glutathione. Suntres ZE, et al. **Biochem Pharmacol** 1996 Nov 22;52(10):1515–20

Enhanced cytotoxicity of alkyl viologens and N,N'–diamino analogs toward cultured murine leukemia L1210 cells under vortex–stirring with a high molecular weight polyacrylic acid. Shimizu N, et al. **Biol Pharm Bull** 1997 Feb; 20(2):168–70

Modulation of paraquat toxicity by beta–carotene at low oxygen partial pressure in chicken embryo fibroblasts. Lawlor SM, et al. **Br J Nutr** 1997 Jan;77(1):133–40

Northern bobwhite egg hatchability and chick immunocompetence following a field application of clopyralid. Dabbert CB, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):801–6

Toxicity of 2,4–dichlorophenoxyacetic acid to Rhizobium sp in pure culture. Fabra A, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):645–52

Response of three microbial test systems to pesticides. Ghosh SK, et al. **Bull Environ Contam Toxicol** 1997 Mar; 58(3):482–8

Effects of technical grade and a commercial formulation of glyphosate on algal population growth. Sáenz ME, et al. **Bull Environ Contam Toxicol** 1997 Oct;59(4):638–44

Paraquat toxicity to different green algae. Sáenz ME, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):922–8

4–Chloro–2–methylphenoxyacetic acid containing compounds. Genotoxicity evaluation by Mutatox assay and comparison with acute (Microtox) and Embryo (FETAX) toxicities. Vismara C, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):582–8

Protoporphyrinogen oxidase: high affinity tetrahydrophthalimide radioligand for the inhibitor/herbicide–binding site in mouse liver mitochondria. Birchfield NB, et al. **Chem Res Toxicol** 1996 Oct–Nov;9(7):1135–9

1H NMR investigation of toxic effects of lindane and paraquat on Hep 3B and Hep G2 human hepatoma cell lines. Descampiaux B, et al. **Chem Res Toxicol** 1997 Jan; 10(1):34–40

Retro–Diels–Alder reaction: possible involvement in the metabolic activation of 7–oxabicyclo[2.2.1]hepta–2(3),5(6)–diene–2,3–dicarboxylates and a phosphonate analog. Mahajna M, et al. **Chem Res Toxicol** 1996 Jan–Feb;9(1):241–6

Biochemical studies on the toxicity of 1, 1'–dimethyl–4, 4'–bipyridylium dichloride in the rat. Nwabisi VC, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):103–9

Action of the herbicide butachlor on cholinesterases in the freshwater snail Pila globosa (Swainson). Rajyalakshmi T, et al. **Drug Chem Toxicol** 1996 Nov;19(4):325–31

Effect of river and wetland sediments on toxicity of metolachlor. Karuppiah M, et al. **Ecotoxicol Environ Saf** 1997 Mar;36(2):180–2

Genotoxicity of select herbicides in Rana catesbeiana tadpoles using the alkaline single–cell gel DNA electrophoresis (comet) assay. Clements C, et al. **Environ Mol Mutagen** 1997;29(3):277–88

Chronic dietary toxicity/oncogenicity studies on 2,4–dichlorophenoxyacetic acid in rodents. Charles JM, et al. **Fundam Appl Toxicol** 1996 Oct;33(2):166–72

3,4–Dichloropropionanilide–induced atrophy of the thymus: mechanisms of toxicity and recovery. Cuff CF, et al. **Fundam Appl Toxicol** 1996 Sep;33(1):83–90

Characterization of olfactory deficits in the rat following administration of 2,6–dichlorobenzonitrile (dichlobenil), 3,3'–iminodipropionitrile, or methimazole. Genter MB, et al. **Fundam Appl Toxicol** 1996 Jan;29(1):71–7

Subchronic, developmental, and genetic toxicology studies with the ethane sulfonate metabolite of alachlor. Heydens WF, et al. **Fundam Appl Toxicol** 1996 Oct;33(2):173–81

Evaluation of renal function in rhesus monkeys and comparison to beagle dogs following oral administration of the organic acid triclopyr (3,5,6–trichloro–2–pyridinyloxyacetic acid). Timchalk C, et al. **Fundam Appl Toxicol** 1997 Mar;36(1):47–53

Mode of action of thyroid tumor formation in the male Long–Evans rat administered high doses of alachlor. Wilson AG, et al. **Fundam Appl Toxicol** 1996 Sep; 33(1):16–23

The effects of pesticides on monoaminergic system related to periodic activity of mussels (Anodonta cygnea L.). Nemcsók J, et al. **Gen Pharmacol** 1997 Jul;29(1):79–83

Commentary on the publication: Evaluation of the potential carcinogenicity and genetic toxicity to humans of the herbicide acetochlor [comment] Dirheimer G. **Hum Exp Toxicol** 1997 Apr;16(4):188. Comment on: Hum Exp Toxicol 1996 Sep;15(9):702–35.

Human and experimental toxicology [comment] Greim H. **Hum Exp Toxicol** 1997 Apr;16(4):189. Comment on: Hum Exp Toxicol 1996 Sep;15(9):702–35.

Effects of oxygen pressure and medium volume on the toxicity of paraquat in rat and human type II pneumocytes. Hoet PH, et al. **Hum Exp Toxicol** 1997 Jun;16(6):305–10

Effects of a diphenyl–ether herbicide, oxyfluorfen, on human BFU–E/CFU–E development and haemoglobin synthesis. Rio B, et al. **Hum Exp Toxicol** 1997 Feb;16(2):115–22

No changes in behaviour, nigro–striatal system neurochemistry or neuronal cell death following toxic multiple oral paraquat administration to rats. Widdowson PS, et al. **Hum Exp Toxicol** 1996 Jul;15(7):583–91

Inhibition of NADH oxidation by 1–methyl–4–phenylpyridinium analogs as the basis for the prediction of the inhibitory potency of novel compounds. Sablin SO, et al. **J Biochem Toxicol** 1996;11(1):33–43

A new sensitive cell culture test for the assessment of pesticide toxicity. Bertheussen K, et al. **J Environ Sci Health B** 1997 Mar;32(2):195–211

A sensitive serum–free colorimetric assay for the detection of cytotoxic effects of pesticides. Figenschau Y, et al. **J Environ Sci Health B** 1997 Mar;32(2):177–94

Rational molecular design and genetic engineering of herbicide resistant crops by structure modeling and site–directed mutagenesis of acetohydroxyacid synthase. Ott KH, et al. **J Mol Biol** 1996 Oct 25;263(2):359–68

Experimental ureterohydronephrosis in fetal rats. Qi B, et al. **J Pediatr Surg** 1996 Sep;31(9):1247–51

Genotoxicity of the herbicides alachlor and maleic hydrazide in cultured human lymphocytes. Ribas G, et al. **Mutagenesis** 1996 May;11(3):221–7

Arsenate suppression of human keratinocyte programming. Kachinskas DJ, et al. **Mutat Res** 1997 Jun;386(3):253–61

Genotoxic evaluation of the herbicide trifluralin on human lymphocytes exposed in vitro. Ribas G, et al. **Mutat Res** 1996 Nov 4;371(1–2):15–21

Genotoxicity of six pesticides by Salmonella mutagenicity test and SOS chromotest. Ruiz MJ, et al. **Mutat Res** 1997 May 23;390(3):245–55

Central nervous system myelin deficit in rats exposed to 2,4–dichlorophenoxyacetic acid throughout lactation. Duffard R, et al. **Neurotoxicol Teratol** 1996 Nov–Dec; 18(6):691–6

Basic toxicology of pesticides. Costa LG. **Occup Med** 1997 Apr–Jun;12(2):251–68 (50 ref.)

Effects of trifluralin and oryzalin on the human erythrocyte Ca–ATPase. Salas V, et al. **Pharmacol Toxicol** 1996 Jun; 78(6):439–40

The effect of a herbicide—sodium salt of 2,4–dichlorophenoxyacetic acid on guerin carcinoma. Sulik M, et al. **Rocz Akad Med Bialymst** 1996;41(2):347–62

Analysis of structure–toxicity relationships for a series of amide herbicides using statistical methods and neural network. Zakarya D, et al. **SAR QSAR Environ Res** 1996; 5(4):269–79

Dimethylarsinic acid treatment alters six different rat biochemical parameters: relevance to arsenic carcinogenesis. Brown JL, et al. **Teratog Carcinog Mutagen** 1997;17(2):71–84

Developmental and dysmorphogenic effects of glufosinate ammonium on mouse embryos in culture. Watanabe T, et al. **Teratog Carcinog Mutagen** 1996;16(6):287–99

Histological changes in rat embryonic blood cells as a possible mechanism for ventricular septal defects produced by an N–phenylimide herbicide. Kawamura S, et al. **Teratology** 1996 Nov;54(5):237–44

Effect of glutathione depletion on metallothionein synthesis induced by paraquat in mice. Nakagawa I, et al. **Tohoku J Exp Med** 1995 Nov;177(3):249–62

Species difference in protoporphyrin IX accumulation produced by an N–phenylimide herbicide in embryos between rats and rabbits. Kawamura S, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):520–5

Herbicide oxadiazon induces peroxisome proliferation [letter] Krijt J, et al. **Toxicol Appl Pharmacol** 1997 Sep;146(1):170–1

Evidence that A8947 enhances pancreas growth via a trypsin inhibitor mechanism. Obourn JD, et al. **Toxicol Appl Pharmacol** 1997 Sep;146(1):116–26

The immunomodulatory effects of the herbicide propanil on murine macrophage interleukin–6 and tumor necrosis factor–alpha production. Xie YC, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):184–91

An in vitro model for toxicological investigations of environmental neurotoxins in primary neuronal cell cultures. Schmuck G, et al. **Toxicol Ind Health** 1996 Sep–Oct;12(5):683–96

Comparative in vitro and in vivo protein kinase C activation by selected pesticides and transition metal salts. Bagchi D, et al. **Toxicol Lett** 1997 Mar 14;91(1):31–7

Differential effect of peroxisome proliferators on rat glutathione S–transferase isoenzymes. Voskoboinik I, et al. **Toxicol Lett** 1996 Oct;87(2–3):147–55

Effects of dichlobenil on ultrastructural morphology and cell replication in the mouse olfactory mucosa. Mancuso M, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):186–94

G–protein(S), G alpha q/G alpha 11, in the olfactory neuroepithelium of the channel catfish (Ictalurus punctatus) is altered by the herbicide, dichlobenil. Andreini I, et al. **Toxicology** 1997 Feb 28;117(2–3):111–22

The oral and intratracheal toxicities of ROUNDUP and its components to rats. Adam A, et al. **Vet Hum Toxicol** 1997 Jun;39(3):147–51

Effect of roundup and tordon 202C herbicides on antibody production in mice. Blakley BR. **Vet Hum Toxicol** 1997 Aug;39(4):204–6

Acute, subchronic and chronic 2,4–dichlorophenoxyacetic acid (2,4–D) intoxication in rats. Paulino CA, et al. **Vet Hum Toxicol** 1996 Oct;38(5):348–52

Acute oral toxicity of the herbicide BUREX EKO in pheasants. Legáth J, et al. **Vet Med (Praha)** 1996 Dec; 41(12):367–71

URINE

Identification of a major human urinary metabolite of metolachlor by LC–MS/MS. Driskell WJ, et al. **Bull Environ Contam Toxicol** 1997 Jun;58(6):929–33

Analytical methods for the determination of urinary 2,4–dichlorophenoxyacetic acid and 2–methyl–4–chlorophenoxyacetic acid in occupationally exposed subjects and in the general population. Aprea C, et al. **J Anal Toxicol** 1997 Jul–Aug;21(4):262–7

Influence of dietary selenium on the disposition of arsenate in the female B6C3F1 mouse. Kenyon EM, et al. **J Toxicol Environ Health** 1997 Jun 27;51(3):279–99

HERBICIDES, CARBAMATE

ADVERSE EFFECTS

Characterization of risks associated with the use of molinate. Cochran RC, et al. **Regul Toxicol Pharmacol** 1997 Apr; 25(2):146–57

METABOLISM

The carry–through of residues of thiabendazole, tecnazene and chlorpropham from potatoes following manufacture into potato crisps and jacket potato crisps. Lewis DJ, et al. **Food Addit Contam** 1996 Feb–Mar;13(2):221–9

TOXICITY

Acute toxicity, accumulation, and excretion of benthiocarb and its degradation products in killifish. Tsuda T, et al. **Bull Environ Contam Toxicol** 1997 Apr;58(4):603–10

Developmental toxicity of chlorpropham in mice. Tanaka T, et al. **Reprod Toxicol** 1997 Sep–Oct;11(5):697–701

HERBICIDES, TRIAZINE

Fitness consequences of genetically engineered herbicide and antibiotic resistance in Arabidopsis thaliana. Purrington CB, et al. **Genetics** 1997 Mar;145(3):807–14

ADVERSE EFFECTS

Mortality among workers at two triazine herbicide manufacturing plants. Sathiakumar N, et al. **Am J Ind Med** 1996 Feb;29(2):143–51

Occupational allergic contact dermatitis from 2–tert–butylamino–4–cyclopropylamino–6–methylthio–1,3,5–triazine. Andersson T. **Contact Dermatitis** 1997 May; 36(5):272

[Retrospective study of the morbidity in a group occupationally exposed to chlorotriazine herbicides: preliminary results] Catenacci G, et al. **G Ital Med Lav** 1995 Jan–Nov;17(1–6):23–6 (Eng. Abstr.) **(Ita)**

ANALYSIS

Analytical performance testing of an atrazine immunoassay system. Comber SD, et al. **Analyst** 1996 Oct;121(10):1485–8

Comparison of gas chromatography/mass spectrometry and immunoassay techniques on concentrations of atrazine in storm runoff. Lydy MJ, et al. **Arch Environ Contam Toxicol** 1996 Oct;31(3):378–85

Pesticides in canals of South Florida. Miles CJ, et al. **Arch Environ Contam Toxicol** 1997 May;32(4):337–45

Construction and characterization of the direct piezoelectric immunosensor for atrazine operating in solution. Steegborn C, et al. **Biosens Bioelectron** 1997;12(1):19–27

Comparison of an enzyme immunoassay with gas chromatography for atrazine determination in water and soil. Jenks BM, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):696–703

Determination of triazine residues in water: comparison between a gas chromatographic method and an enzyme–linked immunosorbent assay (ELISA). Lentza–Rizos C. **Bull Environ Contam Toxicol** 1996 Sep; 57(3):413–20

Irgarol 1051, an antifouling compound in freshwater,

sediment, and biota of Lake Geneva. Tóth S, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):426–33

S-triazine residues in groundwater. Dörfler U, et al. **Chemosphere** 1997 Jul;35(1–2):99–106

Determination of atrazine in water by magnetic particle immunoassay: collaborative study. Hayes MC, et al. **J AOAC Int** 1996 Mar–Apr;79(2):529–37

Separation of chiral polychlorinated biphenyls by micellar electrokinetic chromatography using beta- and gamma-cyclodextrin mixtures in the separation buffer. Marina ML, et al. **J Chromatogr A** 1996 Nov 1; 752(1–2):265–70

Evaluation of atrazine positive and false positive immunoassay detections in ground water. Watts DW, et al. **J Environ Sci Health B** 1997 Sep;32(5):659–71

Factors affecting atrazine fate in north central U.S. soils. Koskinen WC, et al. **Rev Environ Contam Toxicol** 1997; 151:117–65 (225 ref.)

CHEMISTRY

Modeling the environmental fate of atrazine. Devillers J, et al. **SAR QSAR Environ Res** 1997;6(1–2):63–79

ISOLATION & PURIFICATION

Extraction of metribuzin from soil using supercritical CO2 (SFE). Malone RW, et al. **Bull Environ Contam Toxicol** 1997 Jan;58(1):46–52

METABOLISM

The atzB gene of Pseudomonas sp. strain ADP encodes the second enzyme of a novel atrazine degradation pathway. Boundy-Mills KL, et al. **Appl Environ Microbiol** 1997 Mar; 63(3):916–23

Subsurface losses of surface-applied metribuzin as influenced by yard waste compost amendments, no-tillage, and conventional-tillage. Malone RW, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):751–8

Movement of three s-triazine herbicides atrazine, simazine, and ametryn in subtropical soils. Wang Y, et al. **Bull Environ Contam Toxicol** 1996 Nov;57(5):743–50

In vitro metabolism of atrazine, terbuthylazine, ametryne, and terbutryne in rats, pigs, and humans. Lang D, et al. **Drug Metab Dispos** 1996 Aug;24(8):859–65

Effect of Ozonation on the biodegradability of atrazine in GAC columns. Huang CM, et al. **J Environ Sci Health B** 1996 Nov;31(6):1253–66

PHARMACOKINETICS

Determination of atrazine levels in whole saliva and plasma in rats: potential of salivary monitoring for occupational exposure. Lu C, et al. **J Toxicol Environ Health** 1997 Feb 7;50(2):101–11

PHARMACOLOGY

The inhibition of estrogen receptor-mediated responses by chloro-S-triazine-derived compounds is dependent on estradiol concentration in yeast. Tran DQ, et al. **Biochem Biophys Res Commun** 1996 Oct 3;227(1):140–6

Induced new mutation of D1 serine-268 in soybean photosynthetic cell cultures produced atrazine resistance, increased stability of S2QB- and S3QB- states, and increased sensitivity to light stress. Alfonso M, et al. **Plant Physiol** 1996 Dec;112(4):1499–508

TOXICITY

Effects of organic solvents and solvent-atrazine interactions on two algae, Chlorella vulgaris and Selenastrum capricornutum. El Jay A. **Arch Environ Contam Toxicol** 1996 Jul;31(1):84–90

Embryotoxic effects of oral ametryn exposure in pregnant rats. Asongalem EA, et al. **Bull Environ Contam Toxicol** 1997 Feb;58(2):184–9

Comparative studies on the effects of herbicide atrazine on freshwater fish Oreochromis niloticus and Chrysichthyes auratus at Assiut, Egypt. Hussein SY, et al. **Bull Environ Contam Toxicol** 1996 Sep;57(3):503–10

Effecs of chlorsulfuron on growth of three freshwater species of phytoplankton. Sabater C, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):807–13

Differential toxicity of atrazine to selected freshwater algae. Tang J, et al. **Bull Environ Contam Toxicol** 1997 Oct; 59(4):631–7

Assessing the estrogenic and dioxin-like activities of chemicals and complex mixtures using in vitro recombinant receptor-reporter gene assays. Balaguer P, et al. **Can J Physiol Pharmacol** 1996 Feb;74(2):216–22

Effects of terbuthylazine on soil fauna and decomposition processes. Salminen J, et al. **Ecotoxicol Environ Saf** 1996 Jul;34(2):184–9

Effect of atrazine on ovarian function in the rat. Cooper RL, et al. **Reprod Toxicol** 1996 Jul–Aug;10(4):257–64

HERBICIDES, UREA

ANALYSIS

Enzyme immunoaffinity chromatography—a rapid semi-quantitative immunoassay technique for screening the presence of isoproturon in water samples. Katmeh MF, et al. **Analyst** 1997 May;122(5):481–6

Determination of sulfonylurea herbicides in water by capillary electrophoresis and by liquid chromatography/mass spectrometry. Krynitsky AJ. **J AOAC Int** 1997 Mar–Apr;80(2):392–400

CHEMISTRY

A kinetic study of the methanolysis of the sulfonylureas bensulfuron methyl and sulfometuron methyl using capillary electrophoresis. Matchett WH, et al. **Electrophoresis** 1997 Feb;18(2):205–13

Description and prediction of retention in normal-phase high-performance liquid chromatography with binary and ternary mobile phase. Jandera P, et al. **J Chromatogr A** 1997 Feb 21;762(1–2):15–26

METABOLISM

Biodegradation of three substituted phenylurea herbicides (chlortoluron, diuron, and isoproturon) by soil fungi. A comparative study. Vroumsia T, et al. **Chemosphere** 1996 Nov;33(10):2045–56

Role of temperature on isoproturon bioaccumulation and effects on two freshwater rooted macrophytes: Elodea densa and Ludwigia natans. Grollier T, et al. **Ecotoxicol Environ Saf** 1997 Apr;36(3):205–12

Herbicide isoproturon-specific binding in the freshwater macrophyte Elodea densa--a single-cell fluorescence study. Grouselle M, et al. **Ecotoxicol Environ Saf** 1995 Dec; 32(3):254–9

Availability and persistence of isoproturon under field and laboratory conditions. Perrin-Ganier C, et al. **Ecotoxicol Environ Saf** 1996 Dec;35(3):226–30

Biological degradation of isoproturon, chlortoluron and fenitrothion. Cerňáková M. **Folia Microbiol (Praha)** 1995; 40(2):201–6

PHARMACOLOGY

Molecular cloning of a novel allele of SMR1 which determines sulfometuron methyl resistance in Saccharomyces cerevisiae. Xie Q, et al. **FEMS Microbiol Lett** 1996 Apr 1;137(2–3):165–8

TOXICITY

In vivo studies on genotoxicity of pure and commercial linuron. Scassellati-Sforzolini G, et al. **Mutat Res** 1997 May 23;390(3):207–21

Micronucleus induction by diuron in mouse bone marrow. Agrawal RC, et al. **Toxicol Lett** 1996 Dec;89(1):1–4

HERBS

see related
MEDICINE, HERBAL

Acidogenecy of herbal baby drinks [letter; comment] Watkins J. **Br Dent J** 1996 Apr 6;180(7):247. Comment on: Br Dent J 1996 Feb 10;180(3):98–103.

Pharmacodynamic interaction with phototoxic plants during PUVA therapy [letter] Puig L. **Br J Dermatol** 1997 Jun; 136(6):973–4

Effects of the volatile oil of Nigella sativa seeds on the uterine smooth muscle of rat and guinea pig. Aqel M, et al. **J Ethnopharmacol** 1996 May;52(1):23–6

US patent office withdraws patent on Indian herb [news] Jayaraman KS. **Nature** 1997 Sep 4;389(6646):6

ADVERSE EFFECTS

Occupational asthma caused by aromatic herbs. Lemière C, et al. **Allergy** 1996 Sep;51(9):647–9

Occupational asthma caused by black henna. Scibilia J, et al. **Allergy** 1997 Feb;52(2):231–2

Bay leaf perforation of Meckel's diverticulum [letter] Bell CD, et al. **Can J Surg** 1997 Apr;40(2):146–7 (9 ref.)

Mate drinking and risk of lung cancer in males: a case-control study from Uruguay. De Stefani E, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):515–9

[Chronic rhinitis, or the consequences of gluttony] Nicolie B, et al. **Allerg Immunol (Paris)** 1997 Jan;29(1):22–3 **(Fre)**

CHEMISTRY

Determination of lead and cadmium in parley tissues grown in the Riyadh area. al-Kathiri MN, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):726–32

Withaperuvin-E, a new free radical scavenger isolated from Physalis peruviana. Tripathi YB, et al. **Indian J Biochem Biophys** 1995 Oct;32(5):308–9

Nutrient antioxidants in oregano. Lagouri V, et al. **Int J Food Sci Nutr** 1996 Nov;47(6):493–7

Isolation, characterization, and properties of a trypsin-chymotrypsin inhibitor from amaranth seeds. Tamir S, et al. **J Protein Chem** 1996 Feb;15(2):219–29

Chemical composition of indigenous wild herbs, spices, fruits, nuts and leafy vegetables used as food. Achinewhu SC, et al. **Plant Foods Hum Nutr** 1995 Dec;48(4):341–8

Studies on samh seeds (Mesembryanthemum forsskalei Hochst) growing in Saudi Arabia: 2: Chemical composition and microflora of samh seeds. Al-Jassir MS, et al. **Plant Foods Hum Nutr** 1995 Oct;48(3):185–92

[Isolation of pectin from Amaranthus cruentus and study of its effect on the function of isolated rat heart] Désalen' TL, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):91–4 **(Rus)**

ENZYMOLOGY

Effects of glycerol on the kinetic properties of betaine aldehyde dehydrogenase. Muñoz-Clares RA, et al. **Adv Exp Med Biol** 1997;414:261–8

Structure of the parsley caffeoyl-CoA O-methyltransferase gene, harbouring a novel elicitor responsive cis-acting element. Grimmig B, et al. **Plant Mol Biol** 1997 Jan; 33(2):323–41

HISTORY

Herbs: useful plants [see comments] Jones FA. **J R Soc Med** 1996 Dec;89(12):717–9. Comment in: J R Soc Med 1997 Mar;90(3):178–9.

METABOLISM

Diuretic activity of an Equisetum bogotense tea (Platero herb): evaluation in healthy volunteers. Lemus I, et al. **J Ethnopharmacol** 1996 Oct;54(1):55–8

Glycemic index of grain amaranth, wheat and rice in NIDDM subjects. Chaturvedi A, et al. **Plant Foods Hum Nutr** 1997;50(2):171–8

Differential transcript induction of parsley pathogenesis-related proteins and of a small heat shock protein by ozone and heat shock. Eckey-Kaltenbach H, et al. **Plant Mol Biol** 1997 Jan;33(2):343–50

Production of methyl 3-oxoartemisinate from methyl artemisinate by suspension cell culture of Mentha piperita [letter] Kim SU, et al. **Planta Med** 1996 Aug;62(4):359–60

MICROBIOLOGY

Studies on samh seeds (Mesembryanthemum forsskalei Hochst) growing in Saudi Arabia: 2: Chemical composition and microflora of samh seeds. Al-Jassir MS, et al. **Plant Foods Hum Nutr** 1995 Oct;48(3):185–92

POISONING

Redroot pigweed (Amaranthus retroflexus) poisoning of cattle in southern Brazil. Torres MB, et al. **Vet Hum Toxicol** 1997 Apr;39(2):94–6

HERBS, MEDICINAL see **PLANTS, MEDICINAL**

HEREDITARY DISEASES

Cytogenetic abnormalities in an in situ ductal carcinoma and five prophylactically removed breasts from members of a family with hereditary breast cancer. Teixeira MR, et al. **Breast Cancer Res Treat** 1996;38(2):177–82

Discriminating or discrimination? [editorial] MacInnis BJ. **Can J Ophthalmol** 1996 Apr;31(3):105–6 **(Eng, Fre)**

Suppose it were a genetic disorder [editorial] Krugman RD. **Child Abuse Negl** 1997 Mar;21(3):245–6

Familial transmission of a duplication-deficiency X chromosome associated with partial Turner syndrome. Aller V, et al. **Clin Genet** 1995 Dec;48(6):317–20

The right not to know—worthy of preservation any longer? An ethical perspective. Austad T. **Clin Genet** 1996 Aug; 50(2):85–8

Maternal genetic disease and pregnancy. Blum K, et al. **Clin Perinatol** 1997 Jun;24(2):451–65 (61 ref.)

Photosensitivity in the pediatric patient. Garzon MC, et al. **Curr Opin Pediatr** 1997 Aug;9(4):377–87 (101 ref.)

Pediatric and heritable disorders. **Curr Opin Rheumatol** 1996 Sep;8(5):B154–62

Relationship estimation in affected sib pair analysis of late-onset diseases. Göring HH, et al. **Eur J Hum Genet** 1997 Mar–Apr;5(2):69–77

In sickness and in health [news] **Hastings Cent Rep** 1996 Sep–Oct;26(5):42

Genetic discrimination and health insurance: a call for legislative action. Rothenberg KH. **J Am Med Womens Assoc** 1997 Winter;52(1):43–4 (16 ref.)

JSID Tanioku Memorial Lecture 1996. Genetic disorders of keratins and their associated proteins. Fuchs E. **J Dermatol Sci** 1996 Dec;13(3):181–92

Intracytoplasmic sperm injection and potential transmission of genetic disease [letter; comment] Tripp BM, et al. **JAMA** 1997 Mar 26;277(12):963–4. Comment on: JAMA 1996 Dec 18;276(23):1893–7.

Molecular Medicine Society: a great start, a great future [editorial] Nathan DG. **Mol Med** 1996 Sep;2(5):527–9

Is single umbilical artery a genetically controlled anomaly? [letter] Fiddler M, et al. **Prenat Diagn** 1996 Oct; 16(10):969–71

Genetic discrimination: perspectives of consumers. Lapham EV, et al. **Science** 1996 Oct 25;274(5287):621–4

Gene-nutrient interactions in single-gene defects and polygenic diseases: methodologic considerations. Velázquez A. **World Rev Nutr Diet** 1997;80:145–64 (65 ref.)

BLOOD

Antithrombin and its inherited deficiency states. van Boven HH, et al. **Semin Hematol** 1997 Jul;34(3):188–204 (155 ref.)

[Community-based programs for hereditary hemoglobinopathies in Brazilian high school students] Compri MB, et al. **Rev Saude Publica** 1996 Apr; 30(2):187–95 (Eng. Abstr.) **(Por)**

CLASSIFICATION

The Dutch Uniform Multicenter Registration system for genetic disorders and malformation syndromes.
Zwamborn-Hanssen AM, et al. **Am J Med Genet** 1997 Jun 27;70(4):444-7

DIAGNOSIS

Clinical aspects on the use of preimplantation genetic diagnosis in couples at risk. Hanson C, et al.
Acta Obstet Gynecol Scand Suppl 1997;164:19-21

Molecular cytogenetics: an essential component of modern prenatal diagnosis. Hogge WA, et al.
Am J Obstet Gynecol 1996 Aug;175(2):352-6; discussion 356-7

Genes in diagnosis and therapy. Kinnon C.
Br J Hosp Med 1996 Aug 21-Sep 3;56(4):132-5 (14 ref.)

Molecular diagnosis of genetic diseases. Ferrari M, et al.
Clin Biochem 1996 Jun;29(3):201-8 (52 ref.)

Phenotype versus genotype: is emerging methodology improving disease identification? Goldberg DM.
Clin Chim Acta 1997 Jan 17;257(2):141-2

Molecular biology techniques in endocrinology. Davis JR.
Clin Endocrinol (Oxf) 1996 Aug;45(2):125-33 (15 ref.)

Amplification methods in the molecular diagnosis of genetic diseases. Ben-Ezra JM. **Clin Lab Med** 1995 Dec; 15(4):795-815 (44 ref.)

Strategies and logistical requirements for efficient testing in genetic disease. Jackson-Cook C, et al. **Clin Lab Med** 1995 Dec;15(4):839-57 (32 ref.)

Ethical issues in screening and testing for genetic diseases. Kadlec JV, et al. **Clin Lab Med** 1995 Dec;15(4):989-99 (3 ref.)

Genetic screening and testing by induced heteroduplex formation. Wood N, et al. **Electrophoresis** 1996 Jan; 17(1):247-54

Israel-France binational symposium on 'hereditary diseases, molecular diagnosis and gene therapy'. Lyonnet S, et al.
Eur J Hum Genet 1995;3(6):378-81

Pre-implantation diagnosis of genetic disease [editorial] Coonen E. **Eur J Obstet Gynecol Reprod Biol** 1996 Aug; 67(2):81-3

High throughput parallel analysis of hundreds of patient samples for more than 100 mutations in multiple disease genes. Shuber AP, et al. **Hum Mol Genet** 1997 Mar; 6(3):337-47

Preimplantation genetic diagnosis of inherited disease. Ao A. **Indian J Exp Biol** 1996 Dec;34(12):1177-82 (35 ref.)

Current practices of commercial cryobanks in screening prospective donors for genetic disease and reproductive risk. Conrad EA, et al. **Int J Fertil Menopausal Stud** 1996 May-Jun;41(3):298-303

Pregnancies resulting from embryos biopsied for preimplantation diagnosis of genetic disease: biochemical and ultrasonic studies in the first trimester of pregnancy. Soussis I, et al. **J Assist Reprod Genet** 1996 Mar;13(3):254-8

Molecular genetic testing for adult-onset disorders: the evolving laboratory, physician, patient interface. Acton RT. **J Clin Lab Anal** 1997;11(1):23-7 (32 ref.)

Genetic screening, testing and treatment: how far can we go? Scriver CR. **J Inherit Metab Dis** 1996;19(4):401-11 (33 ref.)

Neurogenetic diseases: molecular diagnosis and therapeutic approaches. Muller U, et al. **J Mol Med** 1996 Feb; 74(2):71-84 (110 ref.)

The genetic testing of children [editorial] Fryer A.
J R Soc Med 1997 Aug;90(8):419-21

An improved technique for molecular cytogenetic analysis of human preimplantation embryos with fluorescence in situ hybridization. Ma S, et al. **J Reprod Med** 1996 Jun; 41(6):379-83

Predisposition genetic testing for late-onset disorders in adults. A position paper of the National Society of Genetic Counselors. McKinnon WC, et al. **JAMA** 1997 Oct 15; 278(15):1217-20

Ordering and interpreting DNA tests. Karnes PS.
Mayo Clin Proc 1996 Dec;71(12):1192-5 (10 ref.)

A general method for DNA polymorphism identification in genetic assessment and molecular diagnosis. Beyer K, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar;19(2):87-91

Differential mRNA display. Adaption for in vivo studies of diseased tissues. Russell ME, et al. **Methods Mol Biol** 1997; 85:233-47

Genetic testing: the problems and the promise. Eng C, et al. **Nat Biotechnol** 1997 May;15(5):422-6 (46 ref.)

Hereditary Alexander's disease [letter; comment] Honnorat J, et al. **Neurology** 1997 Feb;48(2):552. Comment on: Neurology 1995 Dec;45(12):2266-71.

DNA diagnosis for the practicing obstetrician. Gupta GK, et al. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):123-42 (74 ref.)

Early and midtrimester genetic amniocenteses. Safety and outcomes. Reece EA. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):71-81 (44 ref.)

Embryoscopy and early prenatal diagnosis. Reece EA.
Obstet Gynecol Clin North Am 1997 Mar;24(1):111-21 (24 ref.)

Adult-onset genetic disease: mechanisms, analysis and prediction. Ravine D, et al. **QJM** 1997 Feb;90(2):83-103 (184 ref.)

Predictive testing and ethical issues [letter] Sher L. **QJM** 1997 Jul;90(7):494

Preimplantation genetic diagnosis: strategies and surprises. Handyside AH, et al. **Trends Genet** 1997 Jul;13(7):270-5 (37 ref.)

[Diagnosis of monogenic diseases of the peripheral nervous system] Haupt A, et al. **Dtsch Med Wochenschr** 1996 Nov 22;121(47):1469-72 (13 ref.) **(Ger)**

[Basics of DNA diagnosis] Hayashi K.
Tanpakushitsu Kakusan Koso 1996 Nov;41(15 Suppl):2478-83 (11 ref.) **(Jpn)**

[Clinical genetics problems in pediatric practice (editorial)] Mazurczak T. **Pediatr Pol** 1996 Mar;71(3):183-90 (Eng. Abstr.) **(Pol)**

[Molecular diagnostics: sequence or signal amplification?] Słomski R, et al. **Postepy Biochem** 1995;41(4):220-9 (17 ref.) **(Pol)**

ENZYMOLOGY

Expression, purification and kinetic characterization of wild-type human ornithine transcarbamylase and a recurrent mutant that produces 'late onset' hyperammonaemia. Morizono H, et al. **Biochem J** 1997 Mar 1;322 (Pt 2):625-31

Hereditary deficiency of ferroxidase (aka caeruloplasmin) [editorial] Logan JI. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):431-2

EPIDEMIOLOGY

Analysis of case-parental control studies: method for the study of associations between disease and genetic markers. Flanders WD, et al. **Am J Epidemiol** 1996 Oct 1; 144(7):696-703

Genetic disorders among Palestinian Arabs: 1. Effects of consanguinity. Zlotogora J. **Am J Med Genet** 1997 Feb 11;68(4):472-5

Autosomal recessive disorders in Saguenay-Lac-Saint-Jean (Quebec, Canada): a study of inbreeding. De Braekeleer M, et al. **Ann Hum Genet** 1996 Jan;60 (Pt 1):51-6

Information provided by pairs of distantly affected relatives to search for genes involved in rare autosomal dominant diseases. Génin E, et al. **Ann Hum Genet** 1997 Jan;61 (Pt 1):25-36

Familial hypocalciuric hypercalcemia in Israel: a preliminary report. Liel Y, et al. **Calcif Tissue Int** 1997 Jul;61(1):36-8

A study of possible deleterious effects of consanguinity. Abdulrazzaq YM, et al. **Clin Genet** 1997 Mar;51(3):167-73

The Danish Twin Register. Kyvik KO, et al.
Dan Med Bull 1996 Dec;43(5):467-70

Different, not biased [letter; comment] Hopper JL.
Epidemiology 1996 May;7(3):330. Comment on: Epidemiology 1995 Sep;6(5):511-9.

Population-based family study designs: an interdisciplinary research framework for genetic epidemiology. Zhao LP, et al. **Genet Epidemiol** 1997;14(4):365-88 (37 ref.)

Autosomal recessive disorders in Saguenay-Lac-St-Jean, Quebec: study of kinship. De Braekeleer M, et al.
Hum Biol 1996 Jun;68(3):371-81

Psychological distress in applicants for predictive DNA testing for autosomal dominant, heritable, late onset disorders. The Rotterdam/Leiden Genetics Workgroup. DudokdeWit AC, et al. **J Med Genet** 1997 May; 34(5):382-90

Hereditary breast cancer in Northern Ireland. McKinley AG, et al. **Ulster Med J** 1996 Nov;65(2):113-7

[Why the incidence of congenital and hereditary disorders usually is zero] Cornel MC, et al.
Ned Tijdschr Geneeskd 1997 Jan 25;141(4):180-2 (Eng. Abstr.) **(Dut)**

[Genetic epidemiology and frequent multifactorial diseases] Cambien F. **Rev Epidemiol Sante Publique** 1996 Nov; 44(6):530-9 (Eng. Abstr.) **(Fre)**

[Population genetic characteristics of highland and meadow Mari. Genetic markers] Kravchuk OI, et al. **Genetika** 1996 Apr;32(4):570-5 (Eng. Abstr.) **(Rus)**

ETHNOLOGY

Seventeenth-century European origins of hereditary diseases in the Saguenay population (Quebec, Canada). Heyer E, et al. **Hum Biol** 1997 Apr;69(2):209-25

ETIOLOGY

Advances in polycystic kidney disease. Schneider MC.
Mol Med Today 1996 Feb;2(2):70-5 (32 ref.)

GENETICS

Synthesis, physicochemical and biological properties of poly-alpha-amino acids--the simplest of protein models. Katchalski-Katzir E. **Acta Biochim Pol** 1996;43(1):217-26 (35 ref.)

Molecular genetic studies in monogenic and polygenic human diseases. Endreffy E, et al. **Acta Biol Hung** 1997;48(1):121-8

The search for molecular defects in genetic disease. Galjaard H. **Acta Genet Med Gemellol (Roma)** 1996;45(1-2):43-52 (33 ref.)

1996 William Allan Award Address. Algorithms and inferences: the challenge of multifactorial diseases. Elston RC. **Am J Hum Genet** 1997 Feb;60(2):255-62

Optimal strategies for mapping complex diseases in the presence of multiple loci. Goldgar DE, et al.
Am J Hum Genet 1997 May;60(5):1222-32

Anticipation: an old idea in new genes [editorial] McInnis MG. **Am J Hum Genet** 1996 Nov;59(5):973-9 (60 ref.)

Baboons as an animal model for genetic studies of common human disease. Rogers J, et al. **Am J Hum Genet** 1997 Sep;61(3):489-93 (41 ref.)

The TDT and other family-based tests for linkage disequilibrium and association [editorial] Spielman RS, et al. **Am J Hum Genet** 1996 Nov;59(5):983-9 (22 ref.)

Fine-scale genetic mapping based on linkage disequilibrium: theory and applications. Xiong M, et al.
Am J Hum Genet 1997 Jun;60(6):1513-31

Consanguinity and common adult diseases in Israeli Arab communities. Jaber L, et al. **Am J Med Genet** 1997 Jun 27;70(4):346-8

The role of meta-analysis in linkage studies of complex traits. Rice JP. **Am J Med Genet** 1997 Feb 21;74(1):112-4

Genetic drift. The awful truth. Robin NH.
Am J Med Genet 1997 Sep 5;71(4):375-7

Craniosynostosis, Philadelphia type: a new autosomal dominant syndrome with sagittal craniosynostosis and syndactyly of the fingers and toes. Robin NH, et al.
Am J Med Genet 1996 Mar 15;62(2):184-91

Genetic epidemiology of familial amyloidotic polyneuropathy (FAP)-type I in Póvoa do Varzim and Vila do Conde (north of Portugal). Sousa A, et al.
Am J Med Genet 1995 Dec 18;60(6):512-21

Genetic disorders among Palestinian Arabs: 1. Effects of consanguinity. Zlotogora J. **Am J Med Genet** 1997 Feb 11;68(4):472-5

Dominance and homozygosity. Zlotogora J.
Am J Med Genet 1997 Feb 11;68(4):412-6 (28 ref.)

Genetic predictors of common disease: apolipoprotein E genotype as a paradigm. Jarvik GP. **Ann Epidemiol** 1997 Jul;7(5):357-62 (39 ref.)

Information provided by pairs of distantly affected relatives to search for genes involved in rare autosomal dominant diseases. Génin E, et al. **Ann Hum Genet** 1997 Jan;61 (Pt 1):25-36

Determining approximate estimates of inheritance parameters from sib-pair IBD proportions. Green JR, et al.
Ann Hum Genet 1996 Mar;60 (Pt 2):171-8

Randomization tests of disease-marker associations. Morris AP, et al. **Ann Hum Genet** 1997 Jan;61 (Pt 1):49-60

Optimal weighting scheme for affected sib-pair analysis of sibship data. Sham PC, et al. **Ann Hum Genet** 1997 Jan; 61 (Pt 1):61-9

Mitochondrial DNA and disease. Suomalainen A.
Ann Med 1997 Jun;29(3):235-46 (119 ref.)

Parental imprinting and human disease. Lalande M.
Annu Rev Genet 1996;30:173-95 (164 ref.)

Inherited hearing defects in mice. Steel KP.
Annu Rev Genet 1995;29:675-701 (200 ref.)

Genetic discrimination and the employment provisions of the Americans with Disabilities Act: emerging legal, empirical, and policy implications. Blanck PD, et al.
Behav Sci Law 1996 Autumn;14(4):411-32 (0 ref.)

Mammalian nucleotide excision repair and syndromes. Vermeulen W, et al. **Biochem Soc Trans** 1997 Feb; 25(1):309-15 (32 ref.)

Mouse models of human genetic disease: which mouse is more like a man? Erickson RP. **Bioessays** 1996 Dec; 18(12):993-8 (58 ref.)

EST! EST!! EST!!! Hartl DL. **Bioessays** 1996 Dec; 18(12):1021-3 (13 ref.)

The biostructural pathology of the serpins: critical function of sheet opening mechanism. Carrell RW, et al.
Biol Chem Hoppe Seyler 1996 Jan;377(1):1-17 (97 ref.)

Messages from an isolate: lessons from the Finnish gene pool. Peltonen L, et al. **Biol Chem Hoppe Seyler** 1995 Dec; 376(12):697-704 (51 ref.)

Identification of disease genes. Thompson R, et al.
Br J Hosp Med 1997 Mar 19-Apr 1;57(6):287-8

Hereditary demyelinating neuropathy of infancy. A genetically complex syndrome. Tyson J, et al. **Brain** 1997 Jan;120 (Pt 1):47-63

Genes and inheritance. Middelton LA, et al. **Cancer Nurs** 1997 Apr;20(2):129-47; quiz 148-51 (7 ref.)

Quantitative phenotype analysis for localization and identification of disease-related genes in a complex genetic background. Lathrop GM. **Ciba Found Symp** 1996; 197:284-93; discussion 293-9 (40 ref.)

Mitochondrial gene mutations in familial non-insulin-dependent diabetes mellitus in Taiwan. Chuang LM, et al. **Clin Genet** 1995 Nov;48(5):251-4

Mohr syndrome (oro-facial-digital syndrome II)--a familial case with different phenotypic findings. Prpić I, et al.
Clin Genet 1995 Dec;48(6):304-7

Molecular basis of genetic disease and molecular methods. McPherson RA. **Clin Lab Med** 1995 Dec;15(4):779-94 (54 ref.)

The complex pathology of trinucleotide repeats. Reddy PS, et al. **Curr Opin Cell Biol** 1997 Jun;9(3):364-72 (65 ref.)

DNA helicases in inherited human disorders. Ellis NA.
Curr Opin Genet Dev 1997 Jun;7(3):354-63 (79 ref.)

Hereditary predisposition to breast cancer. Stratton MR, et al. **Curr Opin Genet Dev** 1996 Feb;6(1):93-7 (29 ref.)

"New" mechanisms of genetic disease [editorial] Korf BR.
Curr Opin Pediatr 1995 Dec;7(6):695-8

Rheumatic manifestations of inherited diseases. Sholter D, et al. **Curr Opin Rheumatol** 1997 Jan;9(1):80-2 (14 ref.)

Benefits of "harmful" genes. Wilcox AJ. **Epidemiology** 1996 Jul;7(4):450-1 (7 ref.)

Genetic defects in cancer cells and cancer prone families.

Yokota J, et al. **Eur J Cancer Prev** 1996 Dec;5 Suppl 2:33–6

Kernicterus in an adult who is heterozygous for Crigler–Najjar syndrome and homozygous for Gilbert–type genetic defect. Chalasani N, et al. **Gastroenterology** 1997 Jun;112(6):2099–103

Human genetic diseases: a cross–talk between man and yeast. Foury F. **Gene** 1997 Aug 11;195(1):1–10 (58 ref.)

Prediction of linkage phase by parental phenotypes. Axenovich TI. **Genet Epidemiol** 1996;13(3):271–83

Partitioned association–linkage test: distinguishing "necessary" from "susceptibility" loci. Greenberg DA, et al. **Genet Epidemiol** 1996;13(3):243–52

Computation of multilocus prior probability of autozygosity for complex inbred pedigrees. Guo SW. **Genet Epidemiol** 1997;14(1):1–15

Genetic epidemiologic methods to screen for matrilineal inheritance in mitochondrial disorders. Mili F, et al. **Genet Epidemiol** 1996;13(6):605–14

The inheritance of factors associated with joint mobility. Moura MM, et al. **Genet Epidemiol** 1996;13(4):403–9

Construction of a YAC contig encompassing the Usher syndrome type 1C and familial hyperinsulinism loci on chromosome 11p14–15.1. Ayyagari R, et al. **Genome Res** 1996 Jun;6(6):504–14

The region surrounding the PKD1 gene: a 700–kb P1 contig from a YAC–deficient interval. Dackowski WR, et al. **Genome Res** 1996 Jun;6(6):515–24

The Xmrk oncogene promoter is derived from a novel amplified locus of unusual organization. Förnzler D, et al. **Genome Res** 1996 Feb;6(2):102–13

Transcription mapping in a 700–kb region around the DXS52 locus in Xq28: isolation of six novel transcripts and a novel ATPase isoform (hPMCA5). Heiss NS, et al. **Genome Res** 1996 Jun;6(6):478–91

Rare disease genes––lessons and challenges. Peltonen L, et al. **Genome Res** 1997 Aug;7(8):765–7

Recombination hot spots and human disease. Purandare SM, et al. **Genome Res** 1997 Aug;7(8):773–86 (102 ref.)

A 11 Mb YAC–based contig spanning the familial juvenile nephronophthisis region (NPH1) located on chromosome 2q. Konrad M, et al. **Genomics** 1995 Dec 10;30(3):514–20

Linkage studies in a large kindred with hereditary pancreatitis confirms mapping of the gene to a 16–cM region on 7q. Pandya A, et al. **Genomics** 1996 Dec 1;38(2):227–30

Hereditary hemochromatosis: generation of a transcription map within a refined and extended map of the HLA class I region. Totaro A, et al. **Genomics** 1996 Feb 1;31(3):319–26

Implications of genetic research for medical practice and education. Tam EK. **Hawaii Med J** 1997 Jun;56(6):140–1

Absence of circulating adrenal autoantibodies in adult–onset X–linked adrenoleukodystrophy. Laureti S, et al. **Horm Metab Res** 1996 Jul;28(7):319–22

Localization of the gene (or genes) for a syndrome with X–linked mental retardation, ataxia, weakness, hearing impairment, loss of vision and a fatal course in early childhood. Kremer H, et al. **Hum Genet** 1996 Nov; 98(5):513–7

Identical mutations and phenotypic variation. Wolf U. **Hum Genet** 1997 Sep;100(3–4):305–21 (99 ref.)

Genetic epidemiology of the Mitsuda reaction in leprosy. Feitosa M, et al. **Hum Hered** 1996 Jan–Feb;46(1):32–5

Phenotype variation and newcomers in ion channel disorders. Bulman DE. **Hum Mol Genet** 1997;6(10):1679–85 (84 ref.)

Localisation of pseudohypoaldosteronism genes to chromosome 16p12.2–13.11 and 12p13.1–pter by homozygosity mapping. Strautnieks SS, et al. **Hum Mol Genet** 1996 Feb;5(2):293–9

Single base–pair substitutions in pathology and evolution: two sides to the same coin. Krawczak M, et al. **Hum Mutat** 1996;8(1):23–31

Normal twins born following preimplantation genetic diagnosis in a couple affected by X–linked hydrocephaly. Drury KC, et al. **J Assist Reprod Genet** 1996 Nov; 13(10):797–800

Mitochondrial DNA mutations and pathogenesis. Schon EA, et al. **J Bioenerg Biomembr** 1997 Apr;29(2):131–49 (188 ref.)

Treatment of mitochondrial disease. Taylor RW, et al. **J Bioenerg Biomembr** 1997 Apr;29(2):195–205 (88 ref.)

Disorders of nuclear–mitochondrial intergenomic signalling. Zeviani M, et al. **J Bioenerg Biomembr** 1997 Apr; 29(2):121–30 (68 ref.)

Genetic studies of complex diseases: let the reader beware [editorial; comment] Econs MJ, et al. **J Bone Miner Res** 1996 Dec;11(12):1835–40. Comment on: J Bone Miner Res 1996 Dec;11(12):1841–9. Comment on: J Bone Miner Res 1996 Dec;11(12):1850–5.

Human genetics: WHO experts probe into inherited thrombophilia [news] **J Indian Med Assoc** 1996 Feb; 94(2):78

Ethical reflections concerning genetic services. A paradigm for the future? Alonso C. **J Inherit Metab Dis** 1996; 19(4):424–31 (14 ref.)

Autosomal dominant inheritance of Weaver syndrome. Fryer A, et al. **J Med Genet** 1997 May;34(5):418–9

Localisation of a new gene for non–specific mental retardation to Xq22–q26 (MRX35). Gu XX, et al. **J Med Genet** 1996 Jan;33(1):52–5

Familial predisposition to both male and female germ cell tumours? [letter] Huddart RA, et al. **J Med Genet** 1996 Jan;33(1):86

Benign adult familial myoclonus epilepsy (BAFME): an autosomal dominant form not linked to the dentatorubral pallidoluysian atrophy (DRPLA) gene. Kuwano A, et al. **J Med Genet** 1996 Jan;33(1):80–1

Cluster headache is an autosomal dominantly inherited disorder in some families: a complex segregation analysis. Russell MB, et al. **J Med Genet** 1995 Dec;32(12):954–6

Leukaemia and Sellafield: is there a heritable link? [letter] Taylor GM, et al. **J Med Genet** 1995 Dec;32(12):997

Identification of a nonsense mutation at the 5' end of the TSC2 gene in a family with a presumptive diagnosis of tuberous sclerosis complex. Vrtel R, et al. **J Med Genet** 1996 Jan;33(1):47–51

Genetic aspects of neurocristopathies. Auricchio A. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S28–9

Mutations and diseases of G protein coupled receptors. Birnbaumer M. **J Recept Signal Transduct Res** 1995 Jan–Mar;15(1–4):131–60 (74 ref.)

The evolutionary dynamics of selfish replicators: a two–level selection model. Godelle B, et al. **J Theor Biol** 1997 Apr 7;185(3):401–13

Family history and genetic risk factors: forward to the future [editorial; comment] Pyeritz RE. **JAMA** 1997 Oct 15; 278(15):1284–5. Comment on: JAMA 1997 Oct 15;278(15):1242–50. Comment on: JAMA 1997 Oct 15;278(15):1251–5. Comment on: JAMA 1997 Oct 15;278(15):1262–7. Comment on: JAMA 1997 Oct 15;278(15):1268–72.

The Japan Society of Human Genetics Award Lecture. Application of DNA markers to clinical genetics. Nakamura Y. **Jpn J Hum Genet** 1996 Mar;41(1):1–10 (61 ref.)

Trinucleotide repeats not the only cause of anticipation. Fraser FC. **Lancet** 1997 Aug 16;350(9076):459–60

Ordering and interpreting DNA tests. Karnes PS. **Mayo Clin Proc** 1996 Dec;71(12):1192–5 (10 ref.)

The Human Genome Project: issues and ethics. Kopala B. **MCN Am J Matern Child Nurs** 1997 Jan–Feb;22(1):9–15 (28 ref.)

Gene identification by chromosomal in–situ hybridization, microdissection and polymerase chain reaction amplification. Sallie R. **Med Hypotheses** 1996 Jun; 46(6):533–5

Detection and quantification of mitochondrial DNA deletions. Soong NW, et al. **Methods Enzymol** 1996; 264:421–31

Construction and use of YAC contigs in disease regions. Horrigan S, et al. **Methods Mol Biol** 1997;68:123–36

Linkage analysis of genetic disorders. Taylor EW, et al. **Methods Mol Biol** 1997;68:11–25 (24 ref.)

The Whitehead Institute for Biomedical Research. Fink GR. **Mol Med** 1996 Sep;2(5):530–2

Thrombophilia: an expanding group of genetic defects that predispose to thrombosis. Laffan M, et al. **Mol Med Today** 1997 Jul;3(7):303–9 (44 ref.)

Inherited retinal degeneration: exceptional genetic and clinical heterogeneity. Sullivan LS, et al. **Mol Med Today** 1996 Sep;2(9):380–6 (35 ref.)

DNA methylation in genomic imprinting [see comments] Tycko B. **Mutat Res** 1997 Apr;386(2):131–40 (75 ref.). Comment in: Mutat Res 1997 Apr;386(2):103–5.

New bills seek to prevent misuse of medical data [news] **Nat Biotechnol** 1997 May;15(5):398

Genetic testing: the problems and the promise. Eng C, et al. **Nat Biotechnol** 1997 May;15(5):422–6 (46 ref.)

Genome cross–referencing and XREFdb: implications for the identification and analysis of genes mutated in human disease. Bassett DE Jr, et al. **Nat Genet** 1997 Apr; 15(4):339–44

Save the males! [news; comment] Page DC. **Nat Genet** 1997 Sep;17(1):3. Comment on: Nat Genet 1997 Sep;17(1):92–5.

Underexpression of messenger RNA for peripheral myelin protein 22 in hereditary neuropathy with liability to pressure palsies. Schenone A, et al. **Neurology** 1997 Feb; 48(2):445–9

A novel frameshift mutation in PMP22 accounts for hereditary neuropathy with liability to pressure palsies. Young P, et al. **Neurology** 1997 Feb;48(2):450–2

Trinucleotide repeats associated with human disease. Mitas M. **Nucleic Acids Res** 1997 Jun 15;25(12):2245–54 (93 ref.)

Advances in gene technology: molecular biology of human genetic disease. Proceedings of the 1994 Miami Bio/Technology European Symposium. Monaco, November 17–20, 1994. **Nucleic Acids Symp Ser** 1995; (32):1–73

Trials of the beta model for complex inheritance. Collins A, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20; 93(17):9177–81

Positionally cloned human disease genes: patterns of evolutionary conservation and functional motifs [see comments] Mushegian AR, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5831–6. Comment in: Proc Natl Acad Sci U S A 1997 May 27;94(11):5506–7.

Discovering genes for new medicines. Haseltine WA. **Sci Am** 1997 Mar;276(3):92–7

Mitochondrial DNA in aging and disease. Wallace DC. **Sci Am** 1997 Aug;277(2):40–7

Genetic analysis of complex disease [letter; comment] Bell DA, et al. **Science** 1997 Feb 28;275(5304):1327–8; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

Genetic analysis of complex diseases [letter; comment] Long AD, et al. **Science** 1997 Feb 28;275(5304):1328; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

Snipping away at genome patenting [news] Marshall E. **Science** 1997 Sep 19;277(5333):1752–3

Genetic analysis of complex diseases [letter; comment] Müller–Myhsok B, et al. **Science** 1997 Feb 28; 275(5304):1328–9; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

Genetic analysis of complex diseases [letter; comment] Scott WK, et al. **Science** 1997 Feb 28;275(5304):1327; discussion 1329–30. Comment on: Science 1996 Sep 13;273(5281):1516–7.

NIH, Hopkins team up on genotyping [news] Stone R. **Science** 1997 Jan 10;275(5297):153

Branching process models for mutant genes in nonstationary populations. Lange K, et al. **Theor Popul Biol** 1997 Apr; 51(2):118–33

It's a knockout! Anagnostopoulos AV. **Trends Genet** 1996 Aug;12(8):323

European geneticists merge disease with diversity. Inherited disorders and their genes in different European populations, San Feliu de Guixols, Spain, 11–15 November 1995. Harding R. **Trends Genet** 1996 Feb;12(2):75–6

Position effects and genetic disease. Milot E, et al. **Trends Genet** 1996 Apr;12(4):123–6 (42 ref.)

Expanding DNA advancing. Strauss B. **Trends Genet** 1997 Jul;13(7):259–60

[Possibilities and problems created by the development in human genetics] Van den Berghe H. **Verh K Acad Geneeskd Belg** 1996;58(4):339–56; discussion 356–8 (Eng. Abstr.) **(Dut)**

[Could male infertility become hereditary?] Barbaux S, et al. **Contracept Fertil Sex** 1997 Mar;25(3):192–3 **(Fre)**

[Is infertility hereditary?] Plachot M. **Contracept Fertil Sex** 1997 Mar;25(3):194–5 (3 ref.) **(Fre)**

[Predictive oncology and familial breast cancer] Pescia G, et al. **Rev Med Suisse Romande** 1997 Aug;117(8):603–6 (10 ref.) **(Fre)**

[Monogenic hereditary diseases in Gorno–Mariĭskiĭ district of Marii El republic] Ginter EK, et al. **Genetika** 1996 May; 32(5):702–8 (Eng. Abstr.) **(Rus)**

[Genetic structure and the load of hereditary diseases in five populations of Arkhangel'skaia region] Mamedova RA, et al. **Genetika** 1996 Jun;32(6):837–41 (Eng. Abstr.) **(Rus)**

[Conception and implementation of the federal computer system for families with hereditary diseases] Kobrinskiĭ BA, et al. **Med Tekh** 1997 May–Jun;(3):37–9 (Eng. Abstr.) **(Rus)**

[Problems of molecular genetics of inherited diseases] Gaitskhoki VS. **Vestn Ross Akad Med Nauk** 1996;(9):8–14 (40 ref.) (Eng. Abstr.) **(Rus)**

HISTORY

Genetic disorders in portraits. Emery AE. **Am J Med Genet** 1996 Dec 18;66(3):334–9

Anemia, genetic diseases, and malaria in prehistoric mainland Southeast Asia. Tayles N. **Am J Phys Anthropol** 1996 Sep; 101(1):11–27

Diathesis and predisposition: the evolution of a concept. Burgio GR. **Eur J Pediatr** 1996 Mar;155(3):163–4

[Encounter with syndromes, genetics and geneticists] Wiedemann HR. **Klin Padiatr** 1997 Jan–Feb;209(1):1–5 **(Ger)**

["Patients with genetic diseases can, by surgical intervention, be sterilized..." Mandatory sterilization in Germany during the era of national socialism] Zimmermann S, et al. **Zentralbl Gynakol** 1997;119(4):143–8 (Eng. Abstr.) **(Ger)**

IMMUNOLOGY

A human non–XLA immunodeficiency disease characterized by blockage of B cell development at an early proB cell stage. Meffre E, et al. **J Clin Invest** 1996 Oct 1; 98(7):1519–26

METABOLISM

The search for molecular defects in genetic disease. Galjaard H. **Acta Genet Med Gemellol (Roma)** 1996;45(1–2):43–52 (33 ref.)

The biostructural pathology of the serpins: critical function of sheet opening mechanism. Carrell RW, et al. **Biol Chem Hoppe Seyler** 1996 Jan;377(1):1–17 (97 ref.)

Mutations and diseases of G protein coupled receptors. Birnbaumer M. **J Recept Signal Transduct Res** 1995 Jan–Mar;15(1–4):131–60 (74 ref.)

Familial cardiomyopathy with cataracts and lactic acidosis: a defect in complex I (NADH–dehydrogenase) of the mitochondria respiratory chain. Pitkanen S, et al. **Pediatr Res** 1996 Mar;39(3):513–21

PATHOLOGY

Hereditary caeruloplasmin deficiency: clinicopathological study of a patient. Kawanami T, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):506–9 (18 ref.)

PHYSIOPATHOLOGY

Clinical similarities in siblings with schizophrenia. Burke JG, et al. **Am J Med Genet** 1996 May 31;67(3):239–43

Disease–specific standards in congenital syndromes. Ranke MB. **Horm Res** 1996;45 Suppl 2:35–41 (46 ref.)

Catecholamine phenotyping: clues to the diagnosis, treatment, and pathophysiology of neurogenetic disorders. Goldstein DS, et al. **J Neurochem** 1996 Nov;67(5):1781–90 (87 ref.)

PREVENTION & CONTROL

Population-based carrier screening for cystic fibrosis. Doksum T, et al. **Clin Obstet Gynecol** 1996 Dec; 39(4):763–71 (28 ref.)

Preconception genetic counseling. Hogge JS, et al. **Clin Obstet Gynecol** 1996 Dec;39(4):751–62 (23 ref.)

The Islamic view in genetic preventive procedures [letter] el-Hashemite N. **Lancet** 1997 Jul 19;350(9072):223

China syndrome. China's eugenics law makes trouble for science and business [news] Beardlsey T. **Sci Am** 1997 Mar; 276(3):33–4

Genetic accountability and pregnant women. Rothenberg KH. **Womens Health Issues** 1997 Jul–Aug;7(4):215–9 (12 ref.)

Control of hereditary diseases. Report of a WHO Scientific Group. **World Health Organ Tech Rep Ser** 1996;865:1–84 (51 ref.)

[Predictive medicine and its ethics] Dausset J. **Pathol Biol (Paris)** 1997 Mar;45(3):199–204 (Eng. Abstr.) **(Fre)**

[Predictive oncology and familial breast cancer] Pescia G, et al. **Rev Med Suisse Romande** 1997 Aug;117(8):603–6 (10 ref.) **(Fre)**

[Genetic examinations in health care] Indulski JA, et al. **Med Pr** 1996;47(5):475–84 (27 ref.) (Eng. Abstr.) **(Pol)**

[Methods of sex selection. A new method for preventing genetic diseases] Barrón-Vellejo J, et al. **Ginecol Obstet Mex** 1996 Dec;64:547–51 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

5th European Meeting on Psychosocial Aspects of Genetics. Rome, Italy, September 26–28, 1996. Abstracts. **Genet Couns** 1997;8(2):147–86

Genetic dilemmas and the child's right to an open future. Davis DS. **Hastings Cent Rep** 1997 Mar–Apr;27(2):7–15 (30 ref.)

Genetic testing of families with hereditary diseases [letter; comment] Wexler A. **JAMA** 1996 Oct 9;276(14):1139–40; discussion 1140. Comment on: JAMA 1996 Jun 26;275(24):1885–92.

THERAPY

Ribozymes: structure, function, and potential therapy for dominant genetic disorders. Grassi G, et al. **Ann Med** 1996 Dec;28(6):499–510 (117 ref.)

Human somatic cell gene therapy. Bank A. **Bioessays** 1996 Dec;18(12):999–1007 (84 ref.)

Genes in diagnosis and therapy. Kinnon C. **Br J Hosp Med** 1996 Aug 21–Sep 3;56(4):132–5 (14 ref.)

Response to "Germ-line therapy to cure mitochondrial disease: protocol and ethics of in vitro ovum nuclear transplantation" by Donald S. Rubenstein, David C. Thomasma, Eric A. Schon, and Michael J. Zinaman (CQ Vol 4, No 3). Bacchetta MD, et al. **Camb Q Healthc Ethics** 1996 Summer;5(3):450–7 (10 ref.)

Gene therapy: a brief review. Hess P. **Clin Lab Med** 1996 Mar;16(1):197–211 (17 ref.)

Transplantation. **Curr Opin Oncol** 1997 Mar;9(2):B41–7

Bone marrow transplantation for inherited diseases [see comments] O'Marcaigh AS, et al. **Curr Opin Oncol** 1997 Mar;9(2):126–30 (21 ref.). Comment in: Curr Opin Oncol 1997 Mar;9(2):115–6.

Israel-France binational symposium on 'hereditary diseases, molecular diagnosis and gene therapy'. Lyonnet S, et al. **Eur J Hum Genet** 1995;3(6):378–81

Adenoviral/retroviral vector chimeras: a novel strategy to achieve high-efficiency stable transduction in vivo. Bilbao G, et al. **FASEB J** 1997 Jul;11(8):624–34 (112 ref.)

Induced tolerance and chimaerism in human fetuses using coelocentesis: a medical opportunity to avert genetic disease? Edwards RG, et al. **Hum Reprod Update** 1995 Jul; 1(4):419–27 (70 ref.)

Genetic screening, testing and treatment: how far can we go? Scriver CR. **J Inherit Metab Dis** 1996;19(4):401–11 (33 ref.)

Parental consent for bone marrow transplantation in the case of genetic disorders. Prows CA, et al. **J Soc Pediatr Nurs** 1997 Jan–Mar;2(1):9–18; quiz 19–20

Fetal somatic gene therapy. Douar AM, et al. **Mol Hum Reprod** 1996 Sep;2(9):633–41 (88 ref.)

Gene transfer to the liver [news] Glaser V. **Mol Med Today** 1996 Feb;2(2):47

Gene therapy is not eugenics [letter; comment] Wagner JA. **Nat Genet** 1997 Mar;15(3):234. Comment on: Nat Genet 1997 Jan;15(1):1–2.

Gene therapy. Is the future here yet? Yaron Y, et al. **Obstet Gynecol Clin North Am** 1997 Mar;24(1):179–99 (72 ref.)

General principles in the care of children and adolescents with genetic disorders and other chronic health conditions. American Academy of Pediatrics Committee on Children with Disabilities. **Pediatrics** 1997 Apr;99(4):643–4

Transplantation of hemopoietic cells from the fetal liver to treat patients with congenital diseases postnatally or prenatally. Touraine JL, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):712–3

[In utero cellular therapy] Forestier F. **Contracept Fertil Sex** 1997 Jun;25(6):I–IV **(Fre)**

[In utero cellular therapy] Forestier F, et al. **J Gynecol Obstet Biol Reprod (Paris)** 1997;26(3):270–2 **(Fre)**

[Gene therapy—vectors and strategies] Huminiecki L. **Postepy Biochem** 1995;41(4):230–6 (50 ref.) **(Pol)**

[Hereditary diseases: principles of treatment] Bochkov NP. **Klin Med (Mosk)** 1997;75(8):4–8 (0 ref.) **(Rus)**

[Gene therapy: facts and fiction] Mönckeberg F. **Rev Med Chil** 1996 Feb;124(2):237–47 (56 ref.) (Eng. Abstr.) **(Spa)**

VETERINARY

Linkage of a microsatellite marker to the canine copper toxicosis locus in Bedlington terriers [see comments] Yuzbasiyan-Gurkan V, et al. **Am J Vet Res** 1997 Jan; 58(1):23–7. Comment in: Am J Vet Res 1997 Jun;58(6):568–9.

What is your diagnosis? Lethal acrodermatitis of English bull terriers. Patel A. **J Small Anim Pract** 1996 Dec;37(12):567, 600

The problem of inherited diseases. 5: Valvular disease in Cavalier King Charles spaniels [news] Swift S. **J Small Anim Pract** 1996 Oct;37(10):505–6

The problem of inherited diseases. 3: Haemophilia in the German Shepherd [news] Tennant B. **J Small Anim Pract** 1996 Aug;37(8):405–6

The problem of inherited diseases 6: deafness in dalmatians [news] Wood JL, et al. **J Small Anim Pract** 1996 Nov; 37(11):559–61

Perivascular external granule cells in hereditary cerebellar vermis defect rat: pathogenesis of cerebellar cortical dysplasia. Kuwamura M, et al. **J Vet Med Sci** 1996 Sep; 58(9):875–9

Molecular tools for the diagnosis of animal diseases. Alleman AR. **Vet Clin North Am Small Anim Pract** 1996 Sep; 26(5):1223–37 (35 ref.)

Hereditary diseases in dogs: working towards a common goal [news] **Vet Rec** 1997 May 10;140(19):490–1

Genetic screening of dogs [letter; comment] Leonard BW. **Vet Rec** 1996 Sep 7;139(10):243. Comment on: Vet Rec 1996 Aug 17;139(7):171.

[Pain caused by breeding: definition, judgment, pathogenesis] Herzog A. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb; 104(2):71–4 (Eng. Abstr.) **(Ger)**

[Pain in the breeding of fish] Kölle P, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Feb;104(2):74–5 (Eng. Abstr.) **(Ger)**

HEREDITARY MOTOR AND SENSORY NEUROPATHIES see **NEUROPATHIES, HEREDITARY MOTOR AND SENSORY**

HEREDITARY MULTIPLE EXOSTOSES see **EXOSTOSES, MULTIPLE HEREDITARY**

HEREDITARY NONPOLYPOSIS COLORECTAL NEOPLASMS see **COLORECTAL NEOPLASMS, HEREDITARY NONPOLYPOSIS**

HEREDITARY OPALESCENT DENTIN see **DENTINOGENESIS IMPERFECTA**

HEREDITARY OPTIC ATROPHY see **OPTIC ATROPHY, HEREDITARY**

HEREDITARY SENSORY AND AUTONOMIC NEUROPATHIES see **NEUROPATHIES, HEREDITARY SENSORY AND AUTONOMIC**

HEREDITARY SPASTIC PARAPLEGIA see **SPASTIC PARAPLEGIA, HEREDITARY**

HEREDITARY SPINAL SCLEROSIS see **FRIEDREICH'S ATAXIA**

HEREDITARY TYPE I MOTOR AND SENSORY NEUROPATHY see **CHARCOT-MARIE DISEASE**

HEREDITARY TYPE IV MOTOR AND SENSORY NEUROPATHY see **REFSUM DISEASE**

HEREDITY see **GENETICS**

HEREDOPATHIA ATACTICA POLYNEURITIFORMIS see **REFSUM DISEASE**

HERELLEA see **ACINETOBACTER**

HERLITZ DISEASE see **EPIDERMOLYSIS BULLOSA, JUNCTIONAL**

HERMANSKI-PUDLAK SYNDROME see **ALBINISM, OCULOCUTANEOUS**

HERMAPHRODITISM

A true hermaphrodite with bilateral ovotestes: a case report. Sadi AM, et al. **J Obstet Gynaecol Res** 1996 Jun; 22(3):247–51

First cases of gynandromorphism in Phlebotomus perniciosus Newstead 1911 (Diptera, Psychodidae, Phlebotominae). Gállego J, et al. **Parasite** 1994 Sep;1(3):283–5

True hermaphrodite—a case report. Yip CH, et al. **Singapore Med J** 1996 Feb;37(1):117–8

ETHNOLOGY

[True hermaphroditism in Senegal: cultural and religious influences on sexual orientation (letter)] Hadjadj S, et al. **Med Trop (Mars)** 1996;56(4):411–2 **(Fre)**

ETIOLOGY

Aetiology of intersexuality in female (XX) pigs, with novel molecular interpretations. Hunter RH. **Mol Reprod Dev** 1996 Nov;45(3):392–402 (74 ref.)

GENETICS

A sex reversal infant with XX karyotype and complete male external genitalia. Nomura Y, et al. **Acta Paediatr Jpn** 1995 Dec;37(6):706–9

Molecular analysis in true hermaphrodites with different karyotypes and similar phenotypes. Torres L, et al. **Am J Med Genet** 1996 May 17;63(2):348–55

Molecular analysis of sex determination in sex-reversed and true hermaphroditism. Copelli SB, et al. **Braz J Med Biol Res** 1996 Jun;29(6):743–8

True hermaphroditism: clinical aspects and molecular studies in 16 cases. Damiani D, et al. **Eur J Endocrinol** 1997 Feb; 136(2):201–4

Gonadotropin receptor mutations. Themmen AP, et al. **J Endocrinol** 1997 May;153(2):179–83 (33 ref.)

Sry gene detection in gonads of intersex patients using FISH. Cho NH, et al. **J Korean Med Sci** 1997 Jun;12(3):204–9

Females of four mole species of genus Talpa (insectivora, mammalia) are true hermaphrodites with ovotestes. Sánchez A, et al. **Mol Reprod Dev** 1996 Jul;44(3):289–94

SRY and karyotypic status of one abnormal and two intersexual marsupials. Watson CM, et al. **Reprod Fertil Dev** 1997;9(2):233–41

HISTORY

Operations on hermaphrodites and castration in Byzantine times (324–1453 AD). Lascaratos J, et al. **Urol Int** 1997; 58(4):232–5

PATHOLOGY

True hermaphroditism: clinical aspects and molecular studies in 16 cases. Damiani D, et al. **Eur J Endocrinol** 1997 Feb; 136(2):201–4

A true hermaphrodite with an inguinal uterus and testis. Unlü C, et al. **Int J Gynaecol Obstet** 1997 Jan;56(1):63–4

Crossed ectopia of ovotestis in a case of true hermaphroditism. Lim DJ, et al. **J Pediatr Surg** 1996 Oct; 31(10):1440–2

PSYCHOLOGY

[True hermaphroditism in Senegal: cultural and religious influences on sexual orientation (letter)] Hadjadj S, et al. **Med Trop (Mars)** 1996;56(4):411–2 **(Fre)**

SURGERY

Late results of operative treatment of intersexuality in children with advanced hypospadias and simultaneous cryptorchidism. Fryczkowski M, et al. **Int Urol Nephrol** 1996;28(2):241–5

Laparoscopic evaluation and management of a child with ambiguous genitalia, ectopic spleen, and Meckel's diverticulum. Martin TV, et al. **Tech Urol** 1997 Spring; 3(1):49–50

ULTRASONOGRAPHY

Case report: ultrasonographic appearance of ovotestes in a true hermaphrodite. Sohaib SA, et al. **Clin Radiol** 1997 Apr; 52(4):312–4

VETERINARY

Intersexual phenotypes and sex chromosome complements of five South American opossums (Monodelphis domestica). Robinson ES, et al. **Lab Anim Sci** 1996 Oct; 46(5):555–60

Scientists angle for answers [news] Kaiser J. **Science** 1996 Dec 13;274(5294):1837–8

[Strangulation ileus of the jejunum combined with intersexuality in a horse] Haider W, et al. **Tierarztl Prax** 1996 Oct;24(5):476–8 (Eng. Abstr.) **(Ger)**

HERMES ANTIGEN FAMILY see **RECEPTORS, LYMPHOCYTE HOMING**

HERNIA

[Lumbar hernia of the Grynfelt quadrant. Apropos of a case (letter)] Jamal L, et al. **J Chir (Paris)** 1996 Jul;133(5):233–3 **(Fre)**

[Eventration of the greater omentum through laparoscopic wound] Kapshitar' AV. **Klin Khir** 1996;(6):51–2 **(Rus)**

HERNIA

COMPLICATIONS

Congenital lumbar hernia associated with the lumbocostovertebral syndrome: two cases. Somuncu S, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):122–4

Pneumatocele complicated by fungal lung abscess in Job's syndrome. Successful lobectomy with the aid of videothoracoscopy. Santambrogio L, et al. **Scand Cardiovasc J** 1997;31(3):177–9

An unusual cause of small bowel obstruction. A case report. Manoharan G, et al. **Trop Gastroenterol** 1995 Oct–Dec; 16(4):68–71

[Oropharyngeal fat hernia in Madelung's neck as a rare cause of acute dysphagia] Baier G, et al. **Laryngorhinootologie** 1997 Jul;76(7):425–7 (Eng. Abstr.) **(Ger)**

[Acute intestinal obstruction due to intestinal strangulation in an external hernia] Ataev SD, et al. **Vestn Khir Im I I Grek** 1996;155(2):101–2 **(Rus)**

[Incarcerated scrotal hernia containing a sigmoid colon carcinoma] Toncr I, et al. **Rozhl Chir** 1997 Jun;76(6):287–8 (Eng. Abstr.) **(Slo)**

CONGENITAL

Congenital lumbar hernia associated with the lumbocostovertebral syndrome: two cases. Somuncu S, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):122–4

Focal nodular hyperplasia of the liver with the lumbo–costovertebral syndrome. al–Salem AH, et al. **J Pediatr Surg** 1996 Sep;31(9):1282–4

DIAGNOSIS

Diagnosis and assessment of sigmoidoceles. Fenner DE. **Am J Obstet Gynecol** 1996 Dec;175(6):1438–41; discussion 1441–2

Hernia of the lung: a case report and review of literature. Minai OA, et al. **Conn Med** 1997 Feb;61(2):77–81 (22 ref.)

Internal abdominal hernias in childhood. Weber P, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):358–62

ETIOLOGY

Omental herniation through a 5–mm laparoscopic cannula site. Toub DB, et al. **J Am Assoc Gynecol Laparosc** 1994 Aug;1(4 Pt 1):413–4 (4 ref.)

Paul W. Harrison and herniology [letter; comment] Read RC. **Surgery** 1997 Jan;121(1):115. Comment on: Surgery 1996 May;119(5):558–67.

PATHOLOGY

Spontaneous thoracic spinal cord herniation. A case report. Sioutos P, et al. **Spine** 1996 Jul 15;21(14):1710–3 (13 ref.)

PHYSIOPATHOLOGY

[Meningoencephalic herniation into the middle ear] Falcioni M, et al. **Acta Otorhinolaryngol Ital** 1995 Aug;15(4):305–11 (Eng. Abstr.) **(Ita)**

[Tracheocele: a case report] Alonso–Vielba DJ, et al. **An Otorrinolaringol Ibero Am** 1996;23(5):461–7 (Eng. Abstr.) **(Spa)**

SURGERY

Pre–emptive effect of pre–incisional versus post–incisional infiltration of local anaesthesia on children undergoing hernioplasty. Dahl V, et al. **Acta Anaesthesiol Scand** 1996 Aug;40(7):847–51

Comparison of prosthetic materials used for abdominal wall defects or hernias (an experimental study). Sahin M, et al. **Acta Chir Hung** 1995–96;35(3–4):291–5

The tension–free hernioplasty in a randomized trial [letter; comment] Deysine M. **Am J Surg** 1997 May;173(5):455. Comment on: Am J Surg 1996 Oct;172(4):315–9.

Laparoscopic repair of recurrent hernia. Felix EL, et al. **Am J Surg** 1996 Nov;172(5):580–3; discussion 583–4

Adhesion formation after incisional hernia repair: a randomized porcine trial. Christoforoni PM, et al. **Am Surg** 1996 Nov;62(11):935–8

Laparoscopic hernia repair in Singapore--views from a cross–section of surgeons. Ooi LL, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):643–5

Parastomal hernia [letter; comment] Bewes PC. **Ann R Coll Surg Engl** 1997 Mar;79(2):154–5. Comment on: Ann R Coll Surg Engl 1996 Mar;78(2):81–4.

Posterior colporrhaphy: its effects on bowel and sexual function [see comments] Kahn MA, et al. **Br J Obstet Gynaecol** 1997 Jan;104(1):82–6. Comment in: Br J Obstet Gynaecol 1997 Aug;104(8):972–3.

Day–case laparoscopic hernia repair. Evans DS, et al. **Br J Surg** 1996 Oct;83(10):1361–3

Retroperitoneal endoscopic neurectomy for nerve entrapment after hernia repair [letter; comment] Schoeller T, et al. **Br J Surg** 1997 Jul;84(7):1026; discussion 1026–7 . Comment on: Br J Surg 1997 Feb;84(2):216–9.

Retroperitoneal endoscopic neurectomy for nerve entrapment after hernia repair [letter; comment] Troidl H. **Br J Surg** 1997 Jul;84(7):1026; discussion 1026–7. Comment on: Br J Surg 1997 Feb;84(2):216–9.

Spontaneous internal herniation through the foramen of Winslow: a case report. Chung CC, et al. **Can J Surg** 1997 Feb;40(1):64–5

Large incisional hernias: a technique using a new aponeurotic overlap and prosthesis. Slim K, et al. **Eur J Surg** 1995 Nov; 161(11):847–9

Autogenous skin graft in the treatment of large incisional lumbar hernias and bulges. Staerman F, et al. **Eur Urol** 1997;32(2):209–12

The behavior of different types of polytetrafluoroethylene (PTFE) prostheses in the reparative scarring process of abdominal wall defects. Buján J, et al. **Histol Histopathol** 1997 Jul;12(3):683–90

Laparoscopic repair of enterocele. Cadeddu JA, et al. **J Endourol** 1996 Aug;10(4):367–9

Symptomatic forearm fascial hernia. Olch CL, et al. **J Hand Surg [Am]** 1996 Jul;21(4):693–5

Incidence surveillance of wound infection in hernia surgery during hospitalization and after discharge in a university hospital. Santos KR, et al. **J Hosp Infect** 1997 Jul; 36(3):229–33

Acute intraoperative brain herniation during elective neurosurgery: pathophysiology and management considerations. Whittle IR, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):584–90

Effects of physical barriers in prevention of adhesions: an incisional hernia model in rats. Alponat A, et al. **J Surg Res** 1997 Mar;68(2):126–32

Use of preincisional ketorolac in hernia patients: intravenous versus surgical site. Connelly NR, et al. **Reg Anesth** 1997 May–Jun;22(3):229–32

Perineal hernia repair using gracilis myocutaneous flap. Hansen MT, et al. **South Med J** 1997 Jan;90(1):75–7

The totally extraperitoneal laparoscopic hernia repair. Fiennes A, et al. **Surg Endosc** 1997 Jun;11(6):696–7

Laparoscopic hernia repair (TAPP): a new method to reduce port–site–herniation. Irving SO, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):49–50

Primary closure of contaminated scalp wound [letter] Chitkara N, et al. **Trop Doct** 1997 Oct;27(4):251–2

[Liquidation of the hernia–waiting list in the County of Søderjylland is without a perspective (letter)] Laurberg S. **Ugeskr Laeger** 1997 Feb 3;159(6):775–6 **(Dan)**

[Prosthesis and emergency surgery of hernia] Gavioli M, et al. **J Chir (Paris)** 1996 Nov;133(7):317–9 (Eng. Abstr.) **(Fre)**

[Hernia surgery 1996 (editorial)] Stoppa R. **J Chir (Paris)** 1996 Sep;133(6):244–6 (17 ref.) **(Fre)**

[A rare form of pelvic floor hernia. Combined (intra– and extraperitoneal) monolateral, trans–levator, posterior perineal hernia] Hehl AJ, et al. **Chirurg** 1996 Dec; 67(12):1270–2 (Eng. Abstr.) **(Ger)**

[Hernia surgery out of the dark?] Buanes T. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2763–4 **(Nor)**

[The treatment procedure for patients with postoperative hernias taking into account the risk index] Antropova NV, et al. **Khirurgiia (Mosk)** 1996;(6):45–8 (Eng. Abstr.) **(Rus)**

[Long–term results of giant hernias treatment after obstetric and gynecologic surgeries] Deriugina MS. **Khirurgiia (Mosk)** 1997;(6):62–3 (Eng. Abstr.) **(Rus)**

[Treatment of eventrations with a special apparatus] Izmailov SG. **Khirurgiia (Mosk)** 1997;(1):55–8 (Eng. Abstr.) **(Rus)**

VETERINARY

'Gut–tie' in a recently castrated steer [see comments] Scott PR, et al. **Vet Rec** 1997 May 24;140(21):559–60. Comment in: Vet Rec 1997 May 31;140(22):588.

'Gut–tie' in steers [letter; comment] [see comments] Scott WA. **Vet Rec** 1997 May 31;140(22):588. Comment on: Vet Rec 1997 May 24;140(21):559–60. Comment in: Vet Rec 1997 Jun 7;140(23):612.

HERNIA, ABDOMINAL see **HERNIA, VENTRAL**

HERNIA, CEREBRAL see **ENCEPHALOCELE**

HERNIA, DIAPHRAGMATIC

BLOOD

You gotta have heart [letter; comment] Irish MS, et al. **J Pediatr** 1996 Jul;129(1):175–6; discussion 176–7. Comment on: J Pediatr 1995 Jul;127(1):131–3.

CHEMICALLY INDUCED

Nitrofen dose–dependent gestational day–specific murine lung hypoplasia and left–sided diaphragmatic hernia. Cilley RE, et al. **Am J Physiol** 1997 Feb;272(2 Pt 1):L362–71

COMPLICATIONS

Late–appearing diaphragmatic hernia following resolution of right pleural effusion. Bar–Oz B, et al. **Acta Paediatr** 1997 Apr;86(4):431–3

Down syndrome associated with a retroperitoneal teratoma and Morgagni hernia. Quah BS, et al. **Clin Genet** 1996 Oct; 50(4):232–4

Acute gastric volvulus and congenital posterolateral diaphragmatic hernia. Leitão B, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):106–8

Morgagni hernia in a neonate with ventricular septal defect. Budhiraja S, et al. **Indian J Gastroenterol** 1997 Jul; 16(3):111–2

Chiladiti's syndrome in an adult with chronic obstructive airway disease. Maniar DR, et al. **J Assoc Physicians India** 1996 Jul;44(7):492–3

Concurrent left congenital diaphragmatic hernia and esophageal atresia: case report and review of the literature. al–Salem AH, et al. **J Pediatr Surg** 1997 May;32(5):772–4 (8 ref.)

Long–term pulmonary sequelae in survivors of congenital diaphragmatic defects. Vanamo K, et al. **J Pediatr Surg** 1996 Aug;31(8):1096–9; discussion 1099–100

Diaphragmatic hernia and associated anemia: response to surgical treatment. Trastek VF, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1340–4; discussion 1344–5

Extralobar sequestration and type II congenital cystic adenomatoid malformation in an infant with congenital diaphragmatic hernia. McManus DT, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug;16(4):637–42

An unusual cause of large bowel obstruction. Mihaimeed F, et al. **Postgrad Med J** 1997 May;73(859):309–10

What do survivors of congenital diaphragmatic hernia look like when they grow up? Stolar CJ. **Semin Pediatr Surg** 1996 Nov;5(4):275–9 (38 ref.)

Congenital diaphragmatic hernia with ipsilateral eventration: a report of two cases. Kataria R, et al. **Surg Today** 1996; 26(9):751–3

Fetal diaphragmatic hernia presented with transient unilateral pleural effusion. Lau TK, et al. **Ultrasound Obstet Gynecol** 1997 Feb;9(2):125–7

[High obstruction in strangulated diaphragmatic hernia] Angelescu N, et al. **Chirurgia (Bucur)** 1997 Jan–Feb; 92(1):33–8 (13 ref.) (Eng. Abstr.) **(Rum)**

CONGENITAL

Late–appearing diaphragmatic hernia following resolution of right pleural effusion. Bar–Oz B, et al. **Acta Paediatr** 1997 Apr;86(4):431–3

Morgagni hernias: an uncommon cause of chest masses in adults. Bragg WD, et al. **Am Fam Physician** 1996 Nov 1; 54(6):2021–4

Patterns of fetal perinasal fluid flow in cases of congenital diaphragmatic hernia. Fox HE, et al. **Am J Obstet Gynecol** 1997 Apr;176(4):807–12; discussion 812–3

Congenital diaphragmatic hernia: can prenatal ultrasonography predict outcome? [letter; comment] Görbe E, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):257–8 . Comment on: Am J Obstet Gynecol 1996 Apr;174(4):1377–81.

Long–term pulmonary sequelae in children with congenital diaphragmatic hernia. Ijsselstijn H, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):174–80

Pulmonary surfactant dysfunction in congenital diaphragmatic hernia: experimental and clinical findings. Valls–i–Soler A, et al. **Biol Neonate** 1996;69(5):318–26 (62 ref.)

A 45–year perspective of congenital diaphragmatic hernia. Vanamo K. **Br J Surg** 1996 Dec;83(12):1758–62

Acute presentation of congenital diaphragmatic hernia past the neonatal period: a life threatening emergency. Paut O, et al. **Can J Anaesth** 1996 Jun;43(6):621–5

Delayed manifestation of congenital diaphragmatic hernia with intrathoracic kidney: report of one case. Ho HF, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan–Feb;38(1):61–4

Congenital diaphragmatic hernia and ipsilateral limb reduction defect: a new case, long–term follow–up and review of the literature. Wallerstein R, et al. **Clin Dysmorphol** 1997 Jul;6(3):257–61 (14 ref.)

The fetal heart in diaphragmatic hernia. Allan LD, et al. **Clin Perinatol** 1996 Dec;23(4):795–812 (29 ref.)

Postnatal management of congenital diaphragmatic hernia. Bohn DJ, et al. **Clin Perinatol** 1996 Dec;23(4):843–72 (116 ref.)

Congenital diaphragmatic hernia. A historical review. Irish MS, et al. **Clin Perinatol** 1996 Dec;23(4):625–53

Toward understanding the developmental anatomy of congenital diaphragmatic hernia. Kluth D, et al. **Clin Perinatol** 1996 Dec;23(4):655–69 (18 ref.)

Congenital diaphragmatic hernia. Epidemiology and outcome. Langham MR Jr, et al. **Clin Perinatol** 1996 Dec; 23(4):671–88 (88 ref.)

In utero management of congenital diaphragmatic hernia. Mychaliska GB, et al. **Clin Perinatol** 1996 Dec;23(4):823–41 (52 ref.)

Congenital diaphragmatic hernia. In utero therapy and ethical considerations. Neerhof MG, et al. **Clin Perinatol** 1996 Sep; 23(3):465–72 (20 ref.)

Long–term outlook for survivors of congenital diaphragmatic hernia. Nobuhara KK, et al. **Clin Perinatol** 1996 Dec; 23(4):873–87 (56 ref.)

The effect of mechanical forces on in utero lung growth in congenital diaphragmatic hernia. Nobuhara KK, et al. **Clin Perinatol** 1996 Dec;23(4):741–52 (63 ref.)

Pulmonary vascular abnormalities in congenital diaphragmatic hernia. O'Toole SJ, et al. **Clin Perinatol** 1996 Dec;23(4):781–94 (70 ref.)

Etiologic and genetic factors in congenital diaphragmatic hernia. Tibboel D, et al. **Clin Perinatol** 1996 Dec; 23(4):689–99 (60 ref.)

Prenatal diagnosis of congenital diaphragmatic hernia with predictors of mortality. Wilcox DT, et al. **Clin Perinatol** 1996 Dec;23(4):701–9 (41 ref.)

Pulmonary parenchymal abnormalities in congenital diaphragmatic hernia. Wilcox DT, et al. **Clin Perinatol** 1996 Dec;23(4):771–9 (36 ref.)

Animal models in congenital diaphragmatic hernia. Wilcox DT, et al. **Clin Perinatol** 1996 Dec;23(4):813–22 (25 ref.)

Congenital bilateral agenesis of diaphragm: report of a case. Wang SM, et al. **Eur J Pediatr** 1997 Jul;156(7):572–4 (9 ref.)

Prosthetic patches used to close congenital diaphragmatic defects behave well: a long-term follow-up study. de Kort LM, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):136–8

Closed perforation of the esophagocardiac junction with Bochdalek hernia. Karaca I, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):168–9

Atypical hemihepatectomy during primary CDH-repair in a neonate on ECMO. Till H, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):170–1

Pathogenesis of nitrofen-induced congenital diaphragmatic hernia in fetal rats. Allan DW, et al. **J Appl Physiol** 1997 Aug;83(2):338–47

Bochdalek hernia presentation in an adult. Sundaram P, et al. **J Assoc Physicians India** 1996 Mar;44(3):214–5

A case of Morgagni hernia presenting as pneumonia. Lin ST, et al. **J Emerg Med** 1997 May-Jun;15(3):297–301

Exogenous pulmonary surfactant replacement therapy in a neonate with pulmonary hypoplasia accompanying congenital diaphragmatic hernia--a case report. Bae CW, et al. **J Korean Med Sci** 1996 Jun;11(3):265–70

Laparoscopic repair of hernia of foramen of Morgagni: a new case report. Fernandez-Cebrian JM, et al. **J Laparoendosc Surg** 1996 Feb;6(1):61–4

You gotta have heart [letter; comment] Irish MS, et al. **J Pediatr** 1996 Jul;129(1):175–6; discussion 176–7. Comment on: J Pediatr 1995 Jul;127(1):131–3.

Immunohistochemical distribution of surfactant apoprotein-A in congenital diaphragmatic hernia. Asabe K, et al. **J Pediatr Surg** 1997 May;32(5):667–72

Mortality among infants with high-risk congenital diaphragmatic hernia in Singapore. Chan DK, et al. **J Pediatr Surg** 1997 Jan;32(1):95–8

Cardiac arrest before repair or extracorporeal membrane oxygenation cannulation does not increase the mortality rate associated with congenital diaphragmatic hernia. Courcoulas AP, et al. **J Pediatr Surg** 1997 Jul;32(7):953–6; discussion 956–7

Is delayed surgery really better for congenital diaphargmatic hernia? [letter; comment] Davenport M. **J Pediatr Surg** 1997 Jun;32(6):937–8. Comment on: J Pediatr Surg 1996 Nov;31(11):1554–6.

Is delayed surgery really better for congenital diaphragmatic hernia?: a prospective randomized clinical trial [see comments] de la Hunt MN, et al. **J Pediatr Surg** 1996 Nov; 31(11):1554–6. Comment in: J Pediatr Surg 1997 Jun;32(6):937–8.

Venovenous extracorporeal membrane oxygenation: the effects of proximal internal jugular cannulation. Finer NN, et al. **J Pediatr Surg** 1996 Oct;31(10):1391–5

Improved results in patients who have congenital diaphragmatic hernia using preoperative stabilization, extracorporeal membrane oxygenation, and delayed surgery. Frenckner B, et al. **J Pediatr Surg** 1997 Aug; 32(8):1185–9

Familial diaphragmatic agenesis: an autosomal-recessive syndrome with a poor prognosis. Gibbs DL, et al. **J Pediatr Surg** 1997 Feb;32(2):366–8

Correction of congenital diaphragmatic hernia in utero VIII: Response of the hypoplastic lung to tracheal occlusion. Harrison MR, et al. **J Pediatr Surg** 1996 Oct;31(10):1339–48

Decreased pulmonary nitric oxide synthase activity in the rat model of congenital diaphragmatic hernia. Karamanoukian HL, et al. **J Pediatr Surg** 1996 Aug; 31(8):1016–9

Can cardiac weight predict lung weight in patients with congenital diaphragmatic hernia? Karamanoukian HL, et al. **J Pediatr Surg** 1996 Jun;31(6):823–5

Does extracorporeal membrane oxygenation benefit neonates with congenital diaphragmatic hernia? Application of a predictive equation. Keshen TH, et al. **J Pediatr Surg** 1997 Jun;32(6):818–22

Prenatal ultrasonography frequently fails to diagnose congenital diaphragmatic hernia. Lewis DA, et al. **J Pediatr Surg** 1997 Feb;32(2):352–6

Neurological outcome is diminished in survivors of congenital diaphragmatic hernia requiring extracorporeal membrane oxygenation. McGahren ED, et al. **J Pediatr Surg** 1997 Aug;32(8):1216–20

No evidence of WT1 gene mutations in children with congenital diaphragmatic hernia. Nordenskjöld A, et al. **J Pediatr Surg** 1996 Jul;31(7):925–7

Tracheal ligation: the dark side of in utero congenital diaphragmatic hernia treatment. O'Toole SJ, et al. **J Pediatr Surg** 1997 Mar;32(3):407–10

Surfactant rescue in the fetal lamb model of congenital diaphragmatic hernia. O'Toole SJ, et al. **J Pediatr Surg** 1996 Aug;31(8):1105–8; discussion 1108–9

Partial liquid ventilation in newborn patients with congenital diaphragmatic hernia. Pranikoff T, et al. **J Pediatr Surg** 1996 May;31(5):613–8

Concurrent left congenital diaphragmatic hernia and esophageal atresia: case report and review of the literature. al-Salem AH, et al. **J Pediatr Surg** 1997 May;32(5):772–4 (8 ref.)

Coexisting left congenital diaphragmatic hernia and esophageal atresia with tracheoesophageal fistula: successful management in a premature neonate. Sapin E, et al. **J Pediatr Surg** 1996 Jul;31(7):989–91 (20 ref.)

Experimental fetal tracheal ligation and congenital diaphragmatic hernia [letter; comment] Sheth NP. **J Pediatr Surg** 1996 Oct;31(10):1465. Comment on: J Pediatr Surg 1995 Jul;30(7):917–23; discussion 923–4.

Fetal endoscopic tracheal occlusion ('Fetendo-PLUG') for congenital diaphragmatic hernia. Skarsgard ED, et al. **J Pediatr Surg** 1996 Oct;31(10):1335–8

Congenital right diaphragmatic hernias through posterolateral and anterolateral defects associated with extralobar pulmonary sequestration: a case report. Urushihara N, et al. **J Pediatr Surg** 1997 Jan;32(1):101–2

Chest wall and spinal deformities in adults with congenital diaphragmatic defects. Vanamo K, et al. **J Pediatr Surg** 1996 Jun;31(6):851–4

Long-term pulmonary sequelae in survivors of congenital diaphragmatic defects. Vanamo K, et al. **J Pediatr Surg** 1996 Aug;31(8):1096–9; discussion 1099–100

Surgical repair of congenital diaphragmatic hernia during extracorporeal membrane oxygenation: hemorrhagic complications and the effect of tranexamic acid. van der Staak FH, et al. **J Pediatr Surg** 1997 Apr;32(4):594–9

Fetendo-clip: a fetal endoscopic tracheal clip procedure in a human fetus. VanderWall KJ, et al. **J Pediatr Surg** 1997 Jul;32(7):970–2

Fetal endoscopic ('Fetendo') tracheal clip. VanderWall KJ, et al. **J Pediatr Surg** 1996 Aug;31(8):1101–3; discussion 1103–4

Fetal diaphragmatic hernia: echocardiography and clinical outcome. VanderWall KJ, et al. **J Pediatr Surg** 1997 Feb; 32(2):223–5; discussion 225–6

Partial liquid ventilation and nitric oxide in congenital diaphragmatic hernia. Wilcox DT, et al. **J Pediatr Surg** 1997 Aug;32(8):1211–5

Pulmonary artery structural changes in pulmonary hypertension complicating congenital diaphragmatic hernia. Yamataka T, et al. **J Pediatr Surg** 1997 Mar; 32(3):387–90

Active collagen synthesis by pulmonary arteries in pulmonary hypertension complicated by congenital diaphragmatic hernia. Yamataka T, et al. **J Pediatr Surg** 1997 May;32(5):682–7

Maximal oxygen consumption and stress performance in children operated on for congenital diaphragmatic hernia. Zaccara A, et al. **J Pediatr Surg** 1996 Aug;31(8):1092–4; discussion 1095

Just a 'wee prick' with a needle. Wilson-Storey D. **J R Coll Surg Edinb** 1996 Dec;41(6):412–3

Fetal surgical interventions and the development of the heart in congenital diaphragmatic hernia. Karamanoukian HL, et al. **J Surg Res** 1996 Sep;65(1):5–8

Prenatal hormonal therapy improves pulmonary morphology in rats with congenital diaphragmatic hernia. Losty PD, et al. **J Surg Res** 1996 Sep;65(1):42–52

Role of extracorporeal membrane oxygenation [letter; comment] Madar J, et al. **Lancet** 1996 Sep 21; 348(9030):823–4. Comment on: Lancet 1996 Jul 13;348(9020):70–1. Comment on: Lancet 1996 Jul 13;348(9020):75–82.

Congenital diaphragmatic hernia: what happens after discharge? D'Agostino JA. **MCN Am J Matern Child Nurs** 1997 Sep-Oct;22(5):263–6 (20 ref.)

Extralobar sequestration and type II congenital cystic adenomatoid malformation in an infant with congenital diaphragmatic hernia. McManus DT, et al. **Pediatr Pathol Lab Med** 1996 Jul-Aug;16(4):637–42

Evolution of airway hyperresponsiveness in infants with severe congenital diaphragmatic hernia. Boas SR, et al. **Pediatr Pulmonol** 1996 Nov;22(5):295–304

Congenital diaphragmatic hernia misdiagnosed as tension pneumothorax. Coren ME, et al. **Pediatr Pulmonol** 1997 Aug;24(2):119–21

Pitfall: anomalous umbilical vein and absent ductus venosus in association with right congenital diaphragmatic hernia. Strouse PJ, et al. **Pediatr Radiol** 1997 Aug;27(8):651–3

Delayed presentation of a right-sided diaphragmatic hernia following necrotizing enterocolitis: case report. Glüer S, et al. **Pediatr Surg Int** 1997;12(1):59–60

Morphometrics of normal and hypoplastic lungs in preterm lambs with gas and partial liquid ventilation. Major D, et al. **Pediatr Surg Int** 1997 Feb;12(2-3):121–5

Historical aspects of congenital diaphragmatic hernia. Puri P, et al. **Pediatr Surg Int** 1997 Feb;12(2-3):95–100

Inhaled nitric oxide and hypoxic respiratory failure in infants with congenital diaphragmatic hernia. The Neonatal Inhaled Nitric Oxide Study Group (NINOS). **Pediatrics** 1997 Jun;99(6):838–45

Structural chromosome anomalies in congenital diaphragmatic hernia. Howe DT, et al. **Prenat Diagn** 1996 Nov;16(11):1003–9

Left-sided congenital diaphragmatic hernia: value of prenatal MR imaging in preparation for fetal surgery. Hubbard AM, et al. **Radiology** 1997 Jun;203(3):636–40

Aftermath of failed diagnosis of late-presenting congenital diaphragmatic hernias. Delport SD. **S Afr J Surg** 1996 May; 34(2):69–72; discussion 72–3

Delayed presentation of congenital diaphragmatic hernia. Numanoglu A, et al. **S Afr J Surg** 1997 May;35(2):74–6

Congenital diaphragmatic hernia: operative considerations. Cullen ML. **Semin Pediatr Surg** 1996 Nov;5(4):243–8

Fetal surgery for congenital diaphragmatic hernia. Flake AW. **Semin Pediatr Surg** 1996 Nov;5(4):266–74 (44 ref.)

Congenital diaphragmatic hernia: an overview. Greenholz SK. **Semin Pediatr Surg** 1996 Nov;5(4):216–23 (76 ref.)

Innovative therapies in the management of newborns with congenital diaphragmatic hernia. Hirschl RB. **Semin Pediatr Surg** 1996 Nov;5(4):256–65 (87 ref.)

Congenital diaphragmatic hernia: an introduction. Klein MD. **Semin Pediatr Surg** 1996 Nov;5(4):213–5

Embryology of congenital diaphragmatic hernia. Kluth D, et al. **Semin Pediatr Surg** 1996 Nov;5(4):224–33

Extracorporeal membrane oxygenation in patients with congenital diaphragmatic hernia. Lally KP. **Semin Pediatr Surg** 1996 Nov;5(4):249–55 (90 ref.)

Pathophysiology of congenital diaphragmatic hernia. Nobuhara KK, et al. **Semin Pediatr Surg** 1996 Nov; 5(4):234–42 (100 ref.)

What do survivors of congenital diaphragmatic hernia look like when they grow up? Stolar CJ. **Semin Pediatr Surg** 1996 Nov;5(4):275–9 (38 ref.)

Congenital diaphragmatic hernia with ipsilateral eventration: a report of two cases. Kataria R, et al. **Surg Today** 1996; 26(9):751–3

Making the most out of the least: new insights into congenital diaphragmatic hernia [editorial] Karamanoukian HL, et al. **Thorax** 1997 Mar;52(3):209–12 (68 ref.)

[Fetal diaphragmatic hernia. Concomitant anomalies] Ruseva R, et al. **Akush Ginekol (Sofiia)** 1997;36(1):7–9 (Eng. Abstr.) **(Bul)**

[Fetal diaphragmatic hernia. Its incidence and outcome after a 5-year period] Ruseva R. **Akush Ginekol (Sofiia)** 1996; 35(1-2):4–6 (Eng. Abstr.) **(Bul)**

[Morgagni's hernia in infancy] Bettili G, et al. **Minerva Chir** 1997 Mar;52(3):295–9 (Eng. Abstr.) **(Ita)**

[Congenital diaphragmatic hernia: the use of ECMO and other modern therapeutic strategies] Tommasoni N, et al. **Pediatr Med Chir** 1996 May-Jun;18(3):295–300 (43 ref.) (Eng. Abstr.) **(Ita)**

[Severity and prognosis of congenital diaphragmatic hernia from the viewpoint of perioperative respiratory function] Nakae Y, et al. **Masui** 1997 Jun;46(6):827–34 (Eng. Abstr.) **(Jpn)**

[Congenital diaphragmatic hernia: evaluation of two ways of management] Gibert Agulló A, et al. **An Esp Pediatr** 1997 May;46(5):477–82 (29 ref.) (Eng. Abstr.) **(Spa)**

[The ECMO system and neonatal respiratory insufficiency] Vázquez Estévez J. **Cir Pediatr** 1996 Jul;9(3):89–90 **(Spa)**

DIAGNOSIS

Prenatal diagnosis of congenital diaphragmatic hernia with predictors of mortality. Wilcox DT, et al. **Clin Perinatol** 1996 Dec;23(4):701–9 (41 ref.)

Bochdalek hernia presentation in an adult. Sundaram P, et al. **J Assoc Physicians India** 1996 Mar;44(3):214–5

Congenital diaphragmatic hernia misdiagnosed as tension pneumothorax. Coren ME, et al. **Pediatr Pulmonol** 1997 Aug;24(2):119–21

Morgagni hernia diagnosed by MRI. Kamiya N, et al. **Surg Today** 1996;26(6):446–8

[Intrathoracic volvulus of the spleen revealing left posterolateral diaphragmatic hernia] Bonnet JP, et al. **Arch Pediatr** 1996 Jul;3(7):701–4 (Eng. Abstr.) **(Fre)**

[Severity and prognosis of congenital diaphragmatic hernia from the viewpoint of perioperative respiratory function] Nakae Y, et al. **Masui** 1997 Jun;46(6):827–34 (Eng. Abstr.) **(Jpn)**

DRUG THERAPY

Prenatal glucocorticoid therapy reverses pulmonary immaturity in congenital diaphragmatic hernia in fetal sheep. Schnitzer JJ, et al. **Ann Surg** 1996 Oct;224(4):430–7; discussion 437–9

Inhaled nitric oxide increases survival rates in newborn rats with congenital diaphragmatic hernia. Kluth D, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):90–2

Prenatal glucocorticoids improve pulmonary morphometrics in fetal sheep with congenital diaphragmatic hernia. Hedrick HL, et al. **J Pediatr Surg** 1997 Feb;32(2):217–21; discussion 221–2

Surfactant rescue in the fetal lamb model of congenital diaphragmatic hernia. O'Toole SJ, et al. **J Pediatr Surg** 1996 Aug;31(8):1105–8; discussion 1108–9

EMBRYOLOGY

The fetal heart in diaphragmatic hernia. Allan LD, et al. **Clin Perinatol** 1996 Dec;23(4):795–812 (29 ref.)

Toward understanding the developmental anatomy of congenital diaphragmatic hernia. Kluth D, et al. **Clin Perinatol** 1996 Dec;23(4):655–69 (18 ref.)

Fryns syndrome and erupted teeth in a 24-weeks-old fetus. Manouvrier-Hanu S, et al. **Genet Couns** 1996;7(2):131–4

Pathogenesis of nitrofen-induced congenital diaphragmatic hernia in fetal rats. Allan DW, et al. **J Appl Physiol** 1997 Aug;83(2):338–47

Pulmonary expression of vascular endothelial growth factor and myosin isoforms in rats with congenital diaphragmatic hernia. Okazaki T, et al. **J Pediatr Surg** 1997 Mar; 32(3):391–4

Embryology of congenital diaphragmatic hernia. Kluth D, et al. **Semin Pediatr Surg** 1996 Nov;5(4):224–33

EPIDEMIOLOGY

Congenital diaphragmatic hernia. Epidemiology and outcome. Langham MR Jr, et al. **Clin Perinatol** 1996 Dec; 23(4):671–88 (88 ref.)

[Fetal diaphragmatic hernia. Its incidence and outcome after a 5-year period] Ruseva R. **Akush Ginekol (Sofiia)** 1996; 35(1–2):4–6 (Eng. Abstr.) **(Bul)**

ETIOLOGY

Strangulated iatrogenic diaphragmatic hernia: a late diagnosed complication. Axon PR, et al. **Eur J Cardiothorac Surg** 1995;9(11):664–6

Diaphragmatic hernia following transhiatal esophagectomy. Reich H, et al. **Scand J Thorac Cardiovasc Surg** 1996; 30(2):101–3

Sequential herniation of stomach, then colon through the aortic hiatus. Wagner RB, et al. **South Med J** 1997 Mar; 90(3):338–40

[Agenesis of the diaphragm in a young adult. Apropos of a case] Daghfous MH, et al. **J Radiol** 1997 Apr;78(4):309–11 (Eng. Abstr.) **(Fre)**

[Iatrogenic diaphragmatic hernia following abdominal esophagogastrofundoplication: report of a case] Sancho LM, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1996 Nov–Dec;51(6):250–2 (Eng. Abstr.) **(Por)**

GENETICS

Diaphragmatic hernia–exomphalos–hypertelorism syndrome: a new case and further evidence of autosomal recessive inheritance. Gripp KW, et al. **Am J Med Genet** 1997 Feb 11;68(4):441–4

Etiologic and genetic factors in congenital diaphragmatic hernia. Tibboel D, et al. **Clin Perinatol** 1996 Dec; 23(4):689–99 (60 ref.)

Congenital diaphragmatic hernia with probable autosomal recessive inheritance in an extended consanguineous Pakistani pedigree. Mitchell SJ, et al. **J Med Genet** 1997 Jul;34(7):601–3

Familial diaphragmatic agenesis: an autosomal–recessive syndrome with a poor prognosis. Gibbs DL, et al. **J Pediatr Surg** 1997 Feb;32(2):366–8

No evidence of WT1 gene mutations in children with congenital diaphragmatic hernia. Nordenskjöld A, et al. **J Pediatr Surg** 1996 Jul;31(7):925–7

Structural chromosome anomalies in congenital diaphragmatic hernia. Howe DT, et al. **Prenat Diagn** 1996 Nov;16(11):1003–9

Prenatal diagnosis of supernumerary chromosome derivative (22) due to maternal balanced translocation in association with diaphragmatic hernia: a case report. Kadir RA, et al. **Prenat Diagn** 1997 Aug;17(8):761–4

HISTORY

Congenital diaphragmatic hernia. A historical review. Irish MS, et al. **Clin Perinatol** 1996 Dec;23(4):625–53

Historical aspects of congenital diaphragmatic hernia. Puri P, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):95–100

Congenital diaphragmatic hernia: an introduction. Klein MD. **Semin Pediatr Surg** 1996 Nov;5(4):213–5

[Prof. Dr. Lothar Heidenhain (1860–1940)—on the first successful operation of congenital diaphragmatic hernia 6 March 1902] Broghammer H. **Zentralbl Chir** 1997; 122(6):505–7 (Eng. Abstr.) **(Ger)**

METABOLISM

Maximal oxygen consumption and stress performance in children operated on for congenital diaphragmatic hernia. Zaccara A, et al. **J Pediatr Surg** 1996 Aug;31(8):1092–4; discussion 1095

MORTALITY

Inhaled nitric oxide increases survival rates in newborn rats with congenital diaphragmatic hernia. Kluth D, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):90–2

Cardiac arrest before repair or extracorporeal membrane oxygenation cannulation does not increase the mortality rate associated with congenital diaphragmatic hernia. Courcoulas AP, et al. **J Pediatr Surg** 1997 Jul;32(7):953–6; discussion 956–7

Effect of very delayed repair of congenital diaphragmatic hernia on survival and extracorporeal life support use. Reickert CA, et al. **Surgery** 1996 Oct;120(4):766–72; discussion 772–3

NURSING

Congenital diaphragmatic hernia: what happens after discharge? D'Agostino JA. **MCN Am J Matern Child Nurs** 1997 Sep–Oct;22(5):263–6 (20 ref.)

PATHOLOGY

Prenatal hormones alter antioxidant enzymes and lung histology in rats with congenital diaphragmatic hernia. Ijsselstijn H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1059–65

Can blood gas values predict pulmonary hypoplasia in antenatally diagnosed congenital diaphragmatic hernia? Germain JF, et al. **J Pediatr Surg** 1996 Dec;31(12):1634–9

[A case of Morgagni hernia composed of hypertrophic adipose tissue in the falciform ligament] Ichihashi T, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May; 45(5):787–91 (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Prenatal hormones alter antioxidant enzymes and lung histology in rats with congenital diaphragmatic hernia. Ijsselstijn H, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):L1059–65

Long–term pulmonary sequelae in children with congenital diaphragmatic hernia. Ijsselstijn H, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):174–80

Immunohistochemical distribution of surfactant apoprotein–A in congenital diaphragmatic hernia. Asabe K, et al. **J Pediatr Surg** 1997 May;32(5):667–72

Morphometric analysis of pulmonary development in the sheep following creation of fetal diaphragmatic hernia. Lipsett J, et al. **Pediatr Pathol Lab Med** 1997 Sep–Oct; 17(5):789–807

Contributions by individual lungs to the surfactant status in congenital diaphragmatic hernia. Wilcox DT, et al. **Pediatr Res** 1997 May;41(5):686–91

Pathophysiology of congenital diaphragmatic hernia. Nobuhara KK, et al. **Semin Pediatr Surg** 1996 Nov; 5(4):234–42 (100 ref.)

RADIOGRAPHY

Chest case of the day. Morgagni's hernia. Gilkeson RC, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):266, 268–70

Congenital thoracic lesions that mimic neoplastic disease on chest radiographs of adults. Raymond GS, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):763–9

Acute gastric volvulus and congenital posterolateral diaphragmatic hernia. Leitão B, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):106–8

Diaphragmatic hernias. Bevans D, et al. **J Ark Med Soc** 1996 May;92(12):639–40

A case of Morgagni hernia presenting as pneumonia. Lin ST, et al. **J Emerg Med** 1997 May–Jun;15(3):297–301

Congenital diaphragmatic hernia of Bochdalek--delayed presentation. Sidhu BS, et al. **J Indian Med Assoc** 1995 Nov;93(11):428–9, 432

Delayed presentation of congenital diaphragmatic hernia. Numanoglu A, et al. **S Afr J Surg** 1997 May;35(2):74–6

RADIONUCLIDE IMAGING

Peritoneoscintigraphy in the diagnosis of traumatic diaphragmatic rupture. Hammond JS, et al. **Am Surg** 1996 Dec;62(12):1055–9

SURGERY

Laparoscopic repair of a Morgagni hernia. Vanclooster P, et al. **Acta Chir Belg** 1997 Apr;97(2):84–5

Laparoscopic Nissen fundoplication for hiatus hernia: a case report. Teh CH, et al. **Ann Acad Med Singapore** 1996 Sep; 25(5):717–9

Diagnosis and repair of a Morgagni hernia with video–assisted thoracic surgery. Hussong RL Jr, et al. **Ann Thorac Surg** 1997 May;63(5):1474–5

In utero management of congenital diaphragmatic hernia. Mychaliska GB, et al. **Clin Perinatol** 1996 Dec;23(4):823–41 (52 ref.)

Diaphragmatic rupture after plication: etiopathogenesis with review of the literature. Ciftci AO, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):177–9 (17 ref.)

Morgagni–Larrey hernia correction by laparoscopic surgery. Georgacopulo P, et al. **Eur J Pediatr Surg** 1997 Aug; 7(4):241–2

Endoscopic tracheal obstruction with an expanding device in a fetal lamb model: preliminary considerations. Luks FI, et al. **Fetal Diagn Ther** 1996 Jan–Feb;11(1):67–71

Is delayed surgery really better for congenital diaphargmatic hernia? [letter; comment] Davenport M. **J Pediatr Surg** 1997 Jun;32(6):937–8. Comment on: J Pediatr Surg 1996 Nov;31(11):1554–6.

Is delayed surgery really better for congenital diaphragmatic hernia?: a prospective randomized clinical trial [see comments] de la Hunt MN, et al. **J Pediatr Surg** 1996 Nov; 31(11):1554–6. Comment in: J Pediatr Surg 1997 Jun;32(6):937–8.

Improved results in patients who have congenital diaphragmatic hernia using preoperative stabilization, extracorporeal membrane oxygenation, and delayed surgery. Frenckner B, et al. **J Pediatr Surg** 1997 Aug; 32(8):1185–9

Fetal hydrops after in utero tracheal occlusion. Graf JL, et al. **J Pediatr Surg** 1997 Feb;32(2):214–5; discussion 216

Prediction of morbidity during infancy after repair of congenital diaphragmatic hernia. Naik S, et al. **J Pediatr Surg** 1996 Dec;31(12):1651–4

Tracheal ligation: the dark side of in utero congenital diaphragmatic hernia treatment. O'Toole SJ, et al. **J Pediatr Surg** 1997 Mar;32(3):407–10

Surgical repair of congenital diaphragmatic hernia during extracorporeal membrane oxygenation: hemorrhagic complications and the effect of tranexamic acid. van der Staak FH, et al. **J Pediatr Surg** 1997 Apr;32(4):594–9

Fetal endoscopic ('Fetendo') tracheal clip. VanderWall KJ, et al. **J Pediatr Surg** 1996 Aug;31(8):1101–3; discussion 1103–4

Diaphragmatic hernia and associated anemia: response to surgical treatment. Trastek VF, et al. **J Thorac Cardiovasc Surg** 1996 Nov;112(5):1340–4; discussion 1344–5

Symptomatic diaphragmatic hernia: surgical treatment. Weissberg D, et al. **Scand J Thorac Cardiovasc Surg** 1995; 29(4):201–6

Congenital diaphragmatic hernia: operative considerations. Cullen ML. **Semin Pediatr Surg** 1996 Nov;5(4):243–8

Fetal surgery for congenital diaphragmatic hernia. Flake AW. **Semin Pediatr Surg** 1996 Nov;5(4):266–74 (44 ref.)

Laparoscopic repair of a diaphragmatic hernia through the foramen of morgagni. Orita M, et al. **Surg Endosc** 1997 Jun;11(6):668–70

Effect of very delayed repair of congenital diaphragmatic hernia on survival and extracorporeal life support use. Reickert CA, et al. **Surgery** 1996 Oct;120(4):766–72; discussion 772–3

[The correction of congenital diaphragmatic hernia in utero. The advantages and risks] Ruseva R. **Akush Ginekol (Sofiia)** 1996;35(3):29–30 (12 ref.) **(Bul)**

[Incarcerated diaphragmatic hernia as a sequela of iatrogenic diaphragmatic defect. 2 case reports] Peterli R, et al. **Chirurg** 1996 Oct;67(10):1050–2 (Eng. Abstr.) **(Ger)**

[Diaphragm replacement. An animal experiment study] Steinau G, et al. **Langenbecks Arch Chir** 1997;382(2):74–8 (Eng. Abstr.) **(Ger)**

[Morgagni–Larrey hernia: surgical treatment with Marlex. A case report] Caracò C, et al. **Minerva Chir** 1997 Jan–Feb; 52(1–2):107–11 (Eng. Abstr.) **(Ita)**

[Two cases of the congenital posterolateral diaphragmatic hernia were reported] Ohura H, et al. **Kyobu Geka** 1996 May;49(5):420–3 (Eng. Abstr.) **(Jpn)**

[Surgical treatment for diaphragmatic disease] Takehara H, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):111–6 (17 ref.) (Eng. Abstr.) **(Jpn)**

[A case of Morgagni's hernia treated surgically] Komarow I. **Pneumonol Alergol Pol** 1996;64(7–8):478–80 (Eng. Abstr.) **(Pol)**

[Congenital diaphragmatic hernia: evaluation of two ways of management] Gibert Agulló A, et al. **An Esp Pediatr** 1997 May;46(5):477–82 (29 ref.) (Eng. Abstr.) **(Spa)**

[Our experience in neonatal surgery in a 15–year period. Follow–up of 1,003 cases] Vilariño A, et al. **Cir Pediatr** 1996 Jul;9(3):118–21 (Eng. Abstr.) **(Spa)**

THERAPY

Postnatal management of congenital diaphragmatic hernia. Bohn DJ, et al. **Clin Perinatol** 1996 Dec;23(4):843–72 (116 ref.)

Delayed pneumo–mediastinum in congenital diaphragmatic hernia [letter] Radhakrishna K, et al. **Indian Pediatr** 1996 Jul;33(7):608

Congenital diaphragmatic hernia--a tale of two cities: the Toronto experience. Azarow K, et al. **J Pediatr Surg** 1997 Mar;32(3):395–400

Venovenous extracorporeal membrane oxygenation: the effects of proximal internal jugular cannulation. Finer NN, et al. **J Pediatr Surg** 1996 Oct;31(10):1391–5

Correction of congenital diaphragmatic hernia in utero VIII: Response of the hypoplastic lung to tracheal occlusion. Harrison MR, et al. **J Pediatr Surg** 1996 Oct;31(10):1339–48

Does extracorporeal membrane oxygenation benefit neonates with congenital diaphragmatic hernia? Application of a predictive equation. Keshen TH, et al. **J Pediatr Surg** 1997 Jun;32(6):818–22

Neurological outcome is diminished in survivors of congenital diaphragmatic hernia requiring extracorporeal membrane oxygenation. McGahren ED, et al. **J Pediatr Surg** 1997 Aug;32(8):1216–20

Fetal endoscopic tracheal occlusion ('Fetendo–PLUG') for congenital diaphragmatic hernia. Skarsgard ED, et al. **J Pediatr Surg** 1996 Oct;31(10):1335–8

Fetendo–clip: a fetal endoscopic tracheal clip procedure in a human fetus. VanderWall KJ, et al. **J Pediatr Surg** 1997 Jul;32(7):970–2

Partial liquid ventilation and nitric oxide in congenital diaphragmatic hernia. Wilcox DT, et al. **J Pediatr Surg** 1997 Aug;32(8):1211–5

Congenital diaphragmatic hernia--a tale of two cities: the Boston experience. Wilson JM, et al. **J Pediatr Surg** 1997 Mar;32(3):401–5

Conclusions from the Toronto and Boston series [editorial] Young DG. **J Pediatr Surg** 1997 Mar;32(3):406

Role of extracorporeal membrane oxygenation [letter; comment] Madar J, et al. **Lancet** 1996 Sep 21; 348(9030):823–4. Comment on: Lancet 1996 Jul 13;348(9020):70–1. Comment on: Lancet 1996 Jul 13;348(9020):75–82.

Additional considerations for inhaled nitric oxide therapy in congenital diaphragmatic hernia [letter] Irish MS, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):466–7

Tracheal obstruction in experimental diaphragmatic hernia: an endoscopic approach in the fetal lamb. Benachi A, et al. **Prenat Diagn** 1997 Jul;17(7):629–34

Innovative therapies in the management of newborns with congenital diaphragmatic hernia. Hirschl RB. **Semin Pediatr Surg** 1996 Nov;5(4):256–65 (87 ref.)

Extracorporeal membrane oxygenation in patients with

congenital diaphragmatic hernia. Lally KP. **Semin Pediatr Surg** 1996 Nov;5(4):249–55 (90 ref.)
[Fetal diaphragmatic hernia. Its prenatal and postnatal management] Ruseva R, et al. **Akush Ginekol (Sofiia)** 1996; 35(3):42–3 (8 ref.) **(Bul)**
[Congenital diaphragmatic hernia: the use of ECMO and other modern therapeutic strategies] Tommasoni N, et al. **Pediatr Med Chir** 1996 May–Jun;18(3):295–300 (43 ref.) (Eng. Abstr.) **(Ita)**
[The ECMO system and neonatal respiratory insufficiency] Vázquez Estévez J. **Cir Pediatr** 1996 Jul;9(3):89–90 **(Spa)**

ULTRASONOGRAPHY

Congenital diaphragmatic hernia: can prenatal ultrasonography predict outcome? [letter; comment] Görbe E, et al. **Am J Obstet Gynecol** 1997 Jan;176(1 Pt 1):257–8 . Comment on: Am J Obstet Gynecol 1996 Apr;174(4):1377–81.
The detection of right-sided congenital diaphragmatic hernia in monozygotic twins on prenatal ultrasonography. Chao AS, et al. **J Obstet Gynaecol Res** 1997 Apr;23(2):153–5
Prenatal ultrasonography frequently fails to diagnose congenital diaphragmatic hernia. Lewis DA, et al. **J Pediatr Surg** 1997 Feb;32(2):352–6
An unusual hernia: congenital pericardial effusion associated with liver herniation into the pericardial sac. Stevens RL, et al. **Pediatr Radiol** 1996 Nov;26(11):791–3

VETERINARY

A possible association between acquired nontraumatic inguinal and perineal hernia in adult male dogs. Shahar R, et al. **Can Vet J** 1996 Oct;37(10):614–6
Anaesthetic problems caused by diaphragmatic hernia in the horse: a review of four cases. Clutton RE, et al. **Equine Vet J Suppl** 1992 Feb;(11):30–3 (30 ref.)
What is your diagnosis? Diaphragmatic hernia. Worth LT, et al. **J Am Vet Med Assoc** 1997 Jan 1;210(1):29–30
The use of epoxy patch grafts for the repair of experimentally-created diaphragmatic defects in dogs. Matsumoto H, et al. **J Vet Med Sci** 1996 Jul;58(7):685–7
True diaphragmatic hernia in a cat. Voges AK, et al. **Vet Radiol Ultrasound** 1997 Mar–Apr;38(2):116–9
Standing thoracotomy and diaphragmatic herniorrhaphy in a cow. Singh SS, et al. **Vet Rec** 1996 Sep 7;139(10):240
Diaphragmatic hernia repair in three young horses. Santschi EM, et al. **Vet Surg** 1997 May–Jun;26(3):242–5

HERNIA, DIAPHRAGMATIC, TRAUMATIC

Trauma to the diaphragm. Mansour KA. **Chest Surg Clin N Am** 1997 May;7(2):373–83 (36 ref.)
[Case report of strangulated post-traumatic diaphragmatic hernia] Shcherbakov VI, et al. **Klin Khir** 1996;(10):53 **(Rus)**

COMPLICATIONS

Compression of right atrium by traumatic diaphragmatic hernia. D'Cruz IA, et al. **Am Heart J** 1997 Mar; 133(3):380–3
Delayed traumatic hernia of the diaphragm presenting with hypertensive pneumothorax. Case report and review of the literature. Montresor E, et al. **G Chir** 1997 May;18(5):295–6
[Intestinal obstruction as late presentation of traumatic diaphragmatic hernia: report of a case and review of the literature] Vásquez JC, et al. **Rev Gastroenterol Peru** 1996 May–Aug;16(2):158–61 (21 ref.) (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Bowel herniation through the torn diaphragm: II. Intestinal herniation. Schulman A, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):400–3
Traumatic intrapericardial diaphragmatic hernia diagnosed by echocardiography. Colliver C, et al. **J Trauma** 1997 Jan;42(1):115–7
Imaging interpretation session: 1996. Right diaphragmatic rupture with torsion of the abdominal viscera. **Radiographics** 1997 Jan–Feb;17(1):265–7
[Delayed traumatic hernia diagnosed with magnetic resonance imaging] Wataya H, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1997 Jan;35(1):124–8 (Eng. Abstr.) **(Jpn)**

ETIOLOGY

Intrathoracic incarceration of the colon after endoscopy [letter] Knueppel DA, et al. **Am J Gastroenterol** 1996 Oct; 91(10):2256–7
Traumatic transdiaphragmatic intercostal hernia secondary to coughing: case report and review of the literature. Rogers FB, et al. **J Trauma** 1996 Nov;41(5):902–3 (3 ref.)
Delayed intrathoracic herniation of the stomach with pleural empyema due to diaphragmatic stab wound. Vento AE, et al. **Scand J Thorac Cardiovasc Surg** 1996;30(1):45–8

HISTORY

Traumatic diaphragmatic herniation. Rose JD, et al. **J R Nav Med Serv** 1997;82(3):197–8

RADIOGRAPHY

Bowel herniation through the torn diaphragm: I. Gastric herniation. Schulman A, et al. **Abdom Imaging** 1996 Sep–Oct;21(5):395–9
Posttraumatic intrapericardial diaphragmatic hernia [letter] Barker JA, et al. **AJR Am J Roentgenol** 1997 Jul; 169(1):315–6
Traumatic intrapericardial diaphragmatic hernia. Muysoms F, et al. **J Accid Emerg Med** 1997 May;14(3):156
[Stab injury of the diaphragm?] Knollmann FD, et al. **Radiologe** 1996 Jan;36(1):89–91 **(Ger)**

RADIONUCLIDE IMAGING

Peritoneoscintigraphy using Tc-99m MAA for diagnosis of diaphragmatic disruptions in trauma patients. Cesani F, et al. **Clin Nucl Med** 1996 Apr;21(4):290–2

SURGERY

Laparoscopic treatment of incarcerated posttraumatic diaphragmatic hernia. Ugazzi M, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S83–8
Diaphragmatic rupture. Mathews JA, et al. **J Tenn Med Assoc** 1996 Apr;89(4):117–9
[Laparoscopic diagnosis and therapy of closed traumatic diaphragmatic rupture] Horstmann O, et al. **Chirurg** 1996 Jul;67(7):744–7 (Eng. Abstr.) **(Ger)**
[Diaphragmatic injuries—classification, diagnosis and therapy] Steinau G, et al. **Chirurg** 1997 May;68(5):509–12 (18 ref.) (Eng. Abstr.) **(Ger)**
[Laparoscopic colon reposition and closure of the diaphragm in secondary incarcerated pre-existent diaphragmatic hernia] Thalmann C, et al. **Chirurg** 1997 Mar;68(3):271–3 (Eng. Abstr.) **(Ger)**
[Right-sided diaphragmatic rupture with intrathoracic displacement of the entire right lobe of the liver] Wirbel RJ, et al. **Unfallchirurg** 1997 Mar;100(3):249–52 (Eng. Abstr.) **(Ger)**
[Diagnosis and therapy of diaphragmatic rupture after blunt thoracic and abdominal trauma] Ruf G, et al. **Zentralbl Chir** 1996;121(1):24–9 (Eng. Abstr.) **(Ger)**
[Traumatic lesions of the diaphragm] Maniscalco L, et al. **Minerva Chir** 1996 Dec;51(12):1049–55 (Eng. Abstr.) **(Ita)**

HERNIA, ESOPHAGEAL see **HERNIA, HIATAL**

HERNIA, FEMORAL

COMPLICATIONS

Solitary caecal diverticulum strangulated in a femoral hernia. Naunton-Morgan RM, et al. **Br J Surg** 1996 Nov; 83(11):1547
Strangulated femoral hernia presenting as haematemesis. Rudra T, et al. **J R Soc Med** 1997 May;90(5):275–6

DIAGNOSIS

[A posttraumatic venous aneurysm simulating a strangulated femoral hernia] Borzenko BV, et al. **Klin Khir** 1996;(7):44–5 **(Rus)**

EPIDEMIOLOGY

Femoral hernia in childhood: review of 38 cases. Ollero Fresno JC, et al. **Pediatr Surg Int** 1997 Sep;12(7):520–1

ETIOLOGY

Primary saphenous vein aneurysm presenting as a femoral hernia: radiographic findings [letter] Gilkeson RC, et al. **AJR Am J Roentgenol** 1997 Jun;168(6):1621–2
Pseudo-synovial cyst arising at the pubic bone region and forming a large femoral-inguinal mass. Morita M, et al. **J Rheumatol** 1997 Feb;24(2):396–9

PARASITOLOGY

Femoral hernia—a not so unusual presentation of onchocerciasis [letter; comment] Pearson CA. **Trop Doct** 1996 Oct;26(4):199–200. Comment on: Trop Doct 1995 Jul;25(3):135.

PATHOLOGY

[The assessment of the viability of a strangulated organ in elderly patients] Borzenko BV, et al. **Klin Khir** 1995; (2):48–9 **(Rus)**

SURGERY

500 total extraperitoneal approach laparoscopic herniorrhaphies: a single-institution review. Heithold DL, et al. **Am Surg** 1997 Apr;63(4):299–301
Hernia repair in elderly patients. Gianetta E, et al. **Br J Surg** 1997 Jul;84(7):983–5
Reappraisal of femoral hernia in children. Radcliffe G, et al. **Br J Surg** 1997 Jan;84(1):58–60 (25 ref.)
Femoral hernia: is a conservative policy justified? Kemler MA, et al. **Eur J Surg** 1997 Mar;163(3):187–90
Transperitoneal or totally extraperitoneal approach in laparoscopic hernia repair: results of 491 consecutive herniorrhaphies. Kald A, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):86–9
Hernioscopic retrieval of bowel for evaluation of viability during repair of a Richter's-type incarcerated femoral hernia. Kneessy K, et al. **Surg Laparosc Endosc** 1997 Apr; 7(2):171–2
[Tension-free inguinal and femoral hernioplasty using a mesh of plastic material] Dissing CK, et al. **Ugeskr Laeger** 1996 Dec 2;158(49):7061–3 (Eng. Abstr.) **(Dan)**
[Treatment of recurrent and prevascularized femoral hernias by reinforcement of the visceral sac using a giant prosthesis] Munshi IA, et al. **Chirurgie** 1996;121(5):321–4; discussion 324–5 (Eng. Abstr.) **(Fre)**
[Discussion on the communication by X. Henry (15 February 1995). Is there a reasonable role for prosthetic materials in the treatment of hernia emergencies?] Vayre P, et al. **Chirurgie** 1996;121(3):161–2 **(Fre)**
[Late outcome of Lotheissen-McVay herniotomy 20 years postoperative] Bruns W, et al. **Langenbecks Arch Chir** 1996; 381(5):263–6 (Eng. Abstr.) **(Ger)**
[Endoscopic extraperitoneal patch-plasty of inguinal and femoral hernias without suture or staple fixation of the polypropylene patch] Faust H, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:603–5 (Eng. Abstr.) **(Ger)**
[Endoscopic pre-peritoneal prolene mesh-plasty for management of inguinal and femoral hernias] Nussbaumer P, et al. **Swiss Surg** 1997;3(3):121–4 (Eng. Abstr.) **(Ger)**
[New possibility in inguino-femoral hernia repair: laparoscopic herniaplasty] Bátorfi J, et al. **Orv Hetil** 1996 Jun 23;137(25):1359–62 (Eng. Abstr.) **(Hun)**
[Preliminary experience in prosthetic hernia surgery] Pugliano G. **Acta Biomed Ateneo Parmense** 1995; 66(6):229–32 (Eng. Abstr.) **(Ita)**
[Prosthetic repair of inguino-crural hernia using Rives technique] Coda A, et al. **Minerva Chir** 1997 Mar; 52(3):175–80 (Eng. Abstr.) **(Ita)**
[Hernia surgery with short hospitalization] Vasquez G, et al. **Minerva Chir** 1996 Sep;51(9):635–9 (Eng. Abstr.) **(Ita)**
[The use of simultaneous operations in treating strangulated hernia] Zhebrovskiĭ VV, et al. **Klin Khir** 1995;(2):36–8 **(Rus)**
[The successful treatment of a strangulated femoral hernia and profuse gastric hemorrhage in an elderly female patient] Mochalov OIu, et al. **Vestn Khir Im I I Grek** 1996; 155(3):80 **(Rus)**
[Strangulation of the appendix in a femoral hernia] Pidopryhora AP, et al. **Klin Khir** 1995;(2):51–2 **(Ukr)**

HERNIA, HIATAL

Hiatal hernia. Johnson DA, et al. **Gastrointest Endosc Clin N Am** 1996 Jul;6(3):641–66 (73 ref.)

COMPLICATIONS

An intermittently volvulating paraoesophageal hernia mimicking angina pectoris. A case report. Tielliu I, et al. **Acta Chir Belg** 1997 Apr;97(2):81–3
Benign ulcer in a hiatus hernia complicated with a pericardial fistula. Oosterbosch L, et al. **Acta Gastroenterol Belg** 1996 Oct–Dec;59(4):248–50
Hiatal hernia and reflux complicating prosthetic speech. Gerwin JM, et al. **Am J Otolaryngol** 1997 Jan–Feb; 18(1):66–8
Association of hiatal hernia with mitral valve prolapse. Horváth M. **Eur J Pediatr** 1997 Jan;156(1):35–6
Saint's triade presenting as volvulus of the gallbladder. McAleese P, et al. **J Laparoendosc Surg** 1996 Dec; 6(6):421–5 (32 ref.)
A new approach in the management of incarcerated hernia. Emergency laparoscopic hernia repair. Liao K, et al. **Surg Endosc** 1997 Sep;11(9):944–5
The functional relationships between hiatal hernia and reflux esophagitis. Park HJ, et al. **Yonsei Med J** 1996 Aug; 37(4):278–83
[The Saint syndrome] Besznyák G, et al. **Orv Hetil** 1996 Sep 8;137(36):1983–5 (17 ref.) (Eng. Abstr.) **(Hun)**

DIAGNOSIS

Hiatal hernia with cameron ulcers and erosions. Weston AP. **Gastrointest Endosc Clin N Am** 1996 Oct;6(4):671–9 (20 ref.)
Pericardial systolic sound mimicking peristalsis—a clue to hiatus hernia [letter] Desai PV. **J Postgrad Med** 1994 Apr–Jun;40(2):102
Paraesophageal hernia in the neonatal period – another differential diagnosis of esophageal atresia. Yadav K, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):420–1

EPIDEMIOLOGY

High incidence of hiatal hernia in patients with end-stage renal disease [letter] Mora Fernández C, et al. **Clin Nephrol** 1996 Sep;46(3):218

ETIOLOGY

Thoracoscopic repair of hiatal hernia following fundoplication: a new approach to an old problem. Sartotelli KH, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S91–3
Hiatal hernia in predialysis patients [letter; comment]

HERNIA, HIATAL

Mora-Fernández C, et al. **Nephrol Dial Transplant** 1996 Nov;11(11):2370. Comment on: Nephrol Dial Transplant 1996 May;11(5):847-50.

GENETICS

Familial hiatus hernia and gastro-oesophageal reflux. Chana J, et al. **Eur J Pediatr Surg** 1996 Jun;6(3):175-6

PHYSIOPATHOLOGY

Oesophageal and cardia function in patients with paraoesophageal hiatus hernia. Zaninotto G, et al. **Br J Surg** 1997 Aug;84(8):1163-7

Current role of esophageal function studies. Cooper JD. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):157-62 (7 ref.)

RADIOGRAPHY

Paraoesophageal hernia with acute intrathoracic volvulus of the stomach after laparoscopic Nissen fundoplication. Yvergneaux JP, et al. **Acta Chir Belg** 1996 Nov-Dec; 96(6):280-3

Diaphragmatic hernias. Bevans D, et al. **J Ark Med Soc** 1996 May;92(12):639-40

Giant paraesophageal hernia in an asymptomatic old man. The case for misdiagnosing. Malatino LS, et al. **Panminerva Med** 1996 Dec;38(4):262-5

RADIONUCLIDE IMAGING

Transmission image aids in diagnosis of hiatus hernia during gastric emptying study. Tulchinsky M, et al. **Clin Nucl Med** 1996 Dec;21(12):999-1000

SURGERY

Laparoscopic repair of paraesophageal hernia. Willekes CL, et al. **Ann Surg** 1997 Jan;225(1):31-8

Laparoscopic paraesophageal hernia repair. Perdikis G, et al. **Arch Surg** 1997 Jun;132(6):586-9; discussion 590-1

Complications and pitfalls: Belsey and Collis-Belsey antireflux repairs. Pearson FG. **Chest Surg Clin N Am** 1997 Aug;7(3):513-32 (3 ref.)

Mechanical effect of the Angelchik prosthesis on the competency of the gastric cardia: pathophysiologic implications and surgical perspectives. Bonavina L, et al. **Dis Esophagus** 1997 Apr;10(2):115-8

Management of giant paraesophageal hernia. Martin TR, et al. **Dis Esophagus** 1997 Jan;10(1):47-50

Resection of the paraesophageal hernia sac. Rakic S, et al. **Dis Esophagus** 1997 Jul;10(3):229-30; discussion 231

Laparoscopic mesh repair of the esophageal hiatus. Huntington TR. **J Am Coll Surg** 1997 Apr;184(4):399-400

Laparoscopic management of paraesophageal hernia: early results. Behrns KE, et al. **J Laparoendosc Surg** 1996 Oct; 6(5):311-7

Laparoscopic fundoplication in children: our first 30 cases. Longis B, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S21-9

Thoracoscopic repair of hiatal hernia following fundoplication: a new approach to an old problem. Sartotelli KH, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S91-3

Gastroesophageal reflux and esophagitis-associated hypertrophic osteoarthropathy. Greenwald M, et al. **J Pediatr Gastroenterol Nutr** 1996 Aug;23(2):178-81

Hypertrophic pyloric stenosis associated with hiatal hernia. Iijima T, et al. **J Pediatr Surg** 1996 Feb;31(2):277-9

Giant paraesophageal hernia in an asymptomatic old man. The case for misdiagnosing. Malatino LS, et al. **Panminerva Med** 1996 Dec;38(4):262-5

Hiatus hernia and gastroesophageal reflux: indications for surgery and selection of operation. Pearson FG. **Semin Thorac Cardiovasc Surg** 1997 Apr;9(2):163-8

Prosthetic reinforcement of posterior cruroplasty during laparoscopic hiatal herniorrhaphy. Frantzides CT, et al. **Surg Endosc** 1997 Jul;11(7):769-71

The phagocytosis activity during conventional and laparoscopic operations in the rat. A preliminary study. Gutt CN, et al. **Surg Endosc** 1997 Sep;11(9):899-901

Short-term outcome of laparoscopic paraesophageal hernia repair. A case series of 58 consecutive patients. Huntington TR. **Surg Endosc** 1997 Sep;11(9):894-8

Laparoscopic anatomy of the region of the esophageal hiatus. Kuster GG, et al. **Surg Endosc** 1997 Sep;11(9):883-93 (54 ref.)

A new approach in the management of incarcerated hernia. Emergency laparoscopic hernia repair. Liao K, et al. **Surg Endosc** 1997 Sep;11(9):944-5

Laparoscopic tension-free repair of large paraesophageal hernias. Paul MG, et al. **Surg Endosc** 1997 Mar;11(3):303-7

Laparoscopic paraesophageal hernia repair using Surgi-pro mesh [letter; comment] Coster DD. **Surg Laparosc Endosc** 1996 Feb;6(1):78-9. Comment on: Surg Laparosc Endosc 1995 Feb;5(1):32-7.

Video-laparoscopic reduction of an intrathoracic stomach. Gharagozloo F, et al. **Surg Laparosc Endosc** 1996 Jun; 6(3):234-8

[Endoscopic repositioning of the upside-down stomach and its fixation by percutaneous endoscopic gastrostomy] Januschowski R. **Dtsch Med Wochenschr** 1996 Oct 11; 121(41):1261-4 (19 ref.) (Eng. Abstr.) **(Ger)**

[Surgical treatment of paraesophageal hernia] Santini L, et al. **G Chir** 1997 May;18(5):290-4 (Eng. Abstr.) **(Ita)**

[Anesthetic management of a patient with esophageal hiatal hernia accompanied with chest pain] Fukushima A, et al. **Masui** 1996 Nov;45(11):1393-5 (Eng. Abstr.) **(Jpn)**

[Surgical treatment for diaphragmatic disease] Takehara H, et al. **Rinsho Kyobu Geka** 1988 Apr;8(2):111-6 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Laparoscopic treatment of transhiatal gastric hernia] Dragomirescu C, et al. **Chirurgia (Bucur)** 1996 Mar-Apr; 45(2):67-9 (Eng. Abstr.) **(Rum)**

[Method of surgical treatment of hiatal hernia] Galimov OV, et al. **Khirurgiia (Mosk)** 1997;(6):65-6 (Eng. Abstr.) **(Rus)**

[Pneumomediastinum and subcutaneous emphysema as a complication of laparoscopic hiatal hernia surgery (letter)] Jiménez JM, et al. **Rev Esp Anestesiol Reanim** 1996 Feb; 43(2):76-7 **(Spa)**

[A combination of a hernia of the esophageal hiatus and a cyst of the left kidney] Tomusiak TL. **Klin Khir** 1995; (3):50-1 **(Ukr)**

THERAPY

The impact of omeprazole and laparoscopy upon hiatal hernia and reflux esophagitis. McKenzie D, et al. **J Am Coll Surg** 1996 Oct;183(4):413-8 (46 ref.)

ULTRASONOGRAPHY

Unmasking the origin of a pseudo-left atrial mass [letter; comment] Tam JW, et al. **Circulation** 1996 Dec 1; 94(11):2990-1. Comment on: Circulation 1996 Feb 15;93(4):836.

HERNIA, INGUINAL

Clinical crossroads: a 65-year-old man with an inguinal hernia [letter; comment] Vander Veer JB Jr. **JAMA** 1997 Jun 4;277(21):1679. Comment on: JAMA 1997 Feb 26;277(8):663-9.

A 65-year-old man with an inguinal hernia [clinical conference] [see comments] Wantz GE. **JAMA** 1997 Feb 26;277(8):663-9. Comment in: JAMA 1997 Jun 4;277(21):1678-9; discussion 1679. Comment in: JAMA 1997 Jun 4;277(21):1679.

[Just a hernia--one more time? (editorial)] Kehlet H. **Ugeskr Laeger** 1996 Dec 2;158(49):7043 **(Dan)**

[Inguinoscrotal bladder hernia. Report of a case] Mazketli WR, et al. **Actas Urol Esp** 1996 Oct;20(9):845-8 (Eng. Abstr.) **(Spa)**

CLASSIFICATION

[Recurrent inguinal hernia. Propositions of classification and surgical strategy] Campanelli G, et al. **J Chir (Paris)** 1996 Sep;133(6):270-3 (Eng. Abstr.) **(Fre)**

COMPLICATIONS

Bladder cancer within an inguinoscrotal bladder hernia [letter] Darío Casas J, et al. **AJR Am J Roentgenol** 1997 Oct;169(4):1194-5

Perforated appendicitis within an inguinal hernia: case report and review of the literature. Lyass S, et al. **Am J Gastroenterol** 1997 Apr;92(4):700-2 (10 ref.)

Sclerosing lipogranuloma of the scrotum following a laparoscopic herniorraphy and varicocelectomy--a case report. Baladas HG, et al. **Ann Acad Med Singapore** 1997 Mar;26(2):238-40 (4 ref.)

Inguinal cord lipoma. Fawcett AN, et al. **Br J Surg** 1997 Aug;84(8):1169

External strangulation of the small bowel following injury to inguinoscrotal hernia. Chaloner EJ, et al. **Injury** 1997 Jan;28(1):69-70 (4 ref.)

Laparoscopic evaluation for contralateral patent processus vaginalis: Part II. Holcomb GW 3rd, et al. **J Pediatr Surg** 1996 Aug;31(8):1170-3

Association of epididymal anomalies with patent processus vaginalis in hernia, hydrocele and cryptorchidism. Barthold JS, et al. **J Urol** 1996 Dec;156(6):2054-6

Herniation of the bladder trigone into an inguinal hernia causing acute urinary obstruction and acute renal failure. Laniewski PJ, et al. **J Urol** 1996 Oct;156(4):1438-9

Coexistence of left inguinal hernia and left colon cancer—a case report and literature review. Włodarczyk A, et al. **Mater Med Pol** 1996 Jan-Mar;28(1):33-4

Inguinal hernia incarceration as a form of intestinal tuberculosis. Faccin M, et al. **Rev Paul Med** 1996 Jan-Feb; 114(1):1097-9

Increased risk for inguinal hernia in patients with Ehlers-Danlos syndrome. Liem MS, et al. **Surgery** 1997 Jul;122(1):114-5

Torsion of an indirect hernia sac: an unusual cause of acute scrotal swelling in children. Motta J, et al. **Urology** 1997 Sep;50(3):432-5

[Bladder hernia apropos of a case report] Njeh M, et al. **Acta Urol Belg** 1996 Sep;64(3):55-7 (Eng. Abstr.) **(Fre)**

[Acute obstructive renal failure and scrotal complete hernia of the bladder. Apropos of a case, review of the literature] Mianné D, et al. **J Chir (Paris)** 1996;133(9-10):459-61 (14 ref.) (Eng. Abstr.) **(Fre)**

[Testicular ectopy in children. Current practical attitude] Allouch G. **J Urol (Paris)** 1996;102(3):99-101 (6 ref.) (Eng. Abstr.) **(Fre)**

[Acute gangrenous appendicitis in incarcerated inguinal hernia. A case report] Ottaviani M, et al. **Minerva Chir** 1997 Jun;52(6):831-3 (Eng. Abstr.) **(Ita)**

[Torsion of uterine fibroma associated with incarcerated inguinal hernia in pregnancy. Case report] Sciannameo F, et al. **Minerva Ginecol** 1996 Nov;48(11):501-4 (Eng. Abstr.) **(Ita)**

[Adenocarcinoma of the sigmoid in incarcerated inguinoscrotal hernia (letter)] Alonso Poza A, et al. **Rev Esp Enferm Dig** 1996 Dec;88(12):883-4 **(Spa)**

CONGENITAL

The genitofemoral nerve may link testicular inguinoscrotal descent with congenital inguinal hernia. Clarnette TD, et al. **Aust N Z J Surg** 1996 Sep;66(9):612-7 (66 ref.)

Vaginal bleeding in an infant secondary to sliding inguinal hernia. Zitsman JL, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):840-2

Transverse testicular ectopia: report of three cases. Al-Samarrai AYI, et al. **Pediatr Surg Int** 1997 Feb; 12(2-3):218-9

DIAGNOSIS

Uterine leiomyoma appearing as an inguinal mass. Kawakami S, et al. **AJR Am J Roentgenol** 1997 Aug;169(2):547-8

Laparoscopic evaluation of contralateral patent processus vaginalis in children. Pellegrin K, et al. **Am J Surg** 1996 Nov;172(5):602-5; discussion 606

The "other side" of pediatric hernias: the role of laparoscopy. Rescorla FJ, et al. **Am Surg** 1997 Aug;63(8):690-3

Abdominal wall hernias. Mensching JJ, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):739-56 (54 ref.)

Hernioscopy: technique and indications. Timsit G. **Int Surg** 1997 Jan-Mar;82(1):105-6

Successful diagnosis and surgical laparoscopic treatment of a woman with complete androgen insensitivity syndrome [letter] Batzer FR. **J Am Assoc Gynecol Laparosc** 1996 Nov; 4(1):112

Laparoscopic exploration of the contralateral groin in children: an improved technique. Fuenfer MM, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S1-4

Transinguinal diagnostic laparoscopy in pediatric inguinal hernia. Zitsman JL. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S15-20

Diagnostic pneumoperitoneum accurately predicts the presence of patent processus vaginalis [letter; comment] Aktuğ T, et al. **J Pediatr Surg** 1996 Oct;31(10):1463. Comment on: J Pediatr Surg 1995 Sep;30(9):1271-2.

Laparoscopy through the open ipsilateral sac to evaluate presence of contralateral hernia. Wulkan ML, et al. **J Pediatr Surg** 1996 Aug;31(8):1174-6; discussion 1176-7

The sportsman's hernia--fact or fiction? Fredberg U, et al. **Scand J Med Sci Sports** 1996 Aug;6(4):201-4 (22 ref.)

Lymphogranuloma venereum vs. incarcerated inguinal hernia: the Gordian knot unraveled. Davies N, et al. **Tenn Med** 1997 Jul;90(7):278-9

ECONOMICS

[For an analytical approach of the cost of surgical procedures] Marre P, et al. **Ann Chir** 1996;50(9):838-40 **(Fre)**

EMBRYOLOGY

Fetal inguinoscrotal hernia: prenatal ultrasound diagnosis and pathogenetic evaluation. Paladini D, et al. **Ultrasound Obstet Gynecol** 1996 Feb;7(2):145-6

ENZYMOLOGY

Study of biochemical substrate and role of metalloproteinases in fascia transversalis from hernial processes. Bellón JM, et al. **Eur J Clin Invest** 1997 Jun;27(6):510-6

EPIDEMIOLOGY

Prevalence of inguinal hernia in otherwise healthy males of 20 to 22 years of age. Akin ML, et al. **J R Army Med Corps** 1997 Jun;143(2):101-2

Increased risk for inguinal hernia in patients with Ehlers-Danlos syndrome. Liem MS, et al. **Surgery** 1997 Jul;122(1):114-5

ETIOLOGY

Continuous ambulatory peritoneal dialysis complicating with abdominal hernias in children. Tsai TC, et al. **Acta Paediatr Sin** 1996 Jul-Aug;37(4):263-5

Is inguinal hernia a defect in human evolution and would this insight improve concepts for methods of surgical repair? McArdle G. **Clin Anat** 1997;10(1):47-55

Recurrent mucinous adenocarcinoma of the ovary presenting as an inguino-labial hernia. Ben-Hur H, et al. **Eur J Gynaecol Oncol** 1996;17(4):299-302

Diffuse malignant mesothelioma arising in a paracolostomy hernial sac. Bethwaite PB, et al. **Histopathology** 1996 Sep; 29(3):282-4

Pseudo-synovial cyst arising at the pubic bone region and forming a large femoral-inguinal mass. Morita M, et al. **J Rheumatol** 1997 Feb;24(2):396-9

Lumbar hernia: another rare complication of laparoscopic cholecystectomy [letter; comment] Kennedy RJ, et al. **Med J Aust** 1997 Feb 17;166(4):222. Comment on: Med J Aust 1996 Oct 7;165(7):373-4.

Inguinal herniation with glial implants: possible complication of ventriculoperitoneal shunting. Magee JF, et al. **Pediatr Pathol Lab Med** 1996 Jul–Aug;16(4):591–6

[Endometriosis of the round ligament presenting as inguinal hernia (letter)] Manzanera M, et al. **Rev Esp Enferm Dig** 1996 Jul;88(7):518–20 **(Spa)**

GENETICS

A new case of oculocerebral hypopigmentation syndrome (Cross syndrome) with additional findings. Tezcan I, et al. **Clin Genet** 1997 Feb;51(2):118–21 (13 ref.)

Indirect inguinal hernia among Bedouins [letter] Grover VK, et al. **J Med Genet** 1996 Oct;33(10):887

HISTORY

[Inguinal hernia operation in the manuscript "Practica Copiosa". Serial presentation of surgical steps by the Lindau surgeon Caspar Stromayr (1559)] Sachs M. **Fortschr Med** 1997 Mar 20;115(8):35–7 **(Ger)**

PATHOLOGY

Anatomy of the round ligament in female infants and children with an inguinal hernia. Ando H, et al. **Br J Surg** 1997 Mar;84(3):404–5

The interparietal hernia: a rare variant of an inguinal hernia. Koot VC, et al. **Eur J Surg** 1997 Feb;163(2):153–5

Clinical and anatomic features of the inguinal canal during hernia. Peri G, et al. **Ital J Anat Embryol** 1996 Apr–Jun; 101(2):69–80

[A woman with an irreducible bilateral inguinal hernia] Acea Nebril B, et al. **Rev Clin Esp** 1997 Jun;197(6):453–5 (5 ref.) **(Spa)**

[Stomach in inguinal–scrotal hernia] Díaz Oller J, et al. **Rev Esp Enferm Dig** 1997 Apr;89(4):325–8 (Eng. Abstr.) **(Spa)**

[Structural changes in the inguinal ligament in the etiology of inguinal hernia] Maksymchuk VD, et al. **Klin Khir** 1995; (2):47–8 **(Ukr)**

PHYSIOPATHOLOGY

Abdominal wall hernias. Mensching JJ, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):739–56 (54 ref.)

RADIOGRAPHY

The value of herniography in the diagnosis of unexplained groin pain. Mäkelä JT, et al. **Ann Chir Gynaecol** 1996; 85(4):300–4

A negative herniogram does not exclude the presence of a hernia. Loftus IM, et al. **Ann R Coll Surg Engl** 1997 Sep; 79(5):372–5

Herniography for groin pain of uncertain origin. Macarthur DC, et al. **Br J Surg** 1997 May;84(5):684–5

Computed tomography findings in scrotal cystocele. Catalano O. **Eur J Radiol** 1995 Dec 15;21(2):126–7

The investigation of symptomatic inguinal hernia: a complication of barium enema. Cohen JS, et al. **J R Coll Surg Edinb** 1997 Feb;42(1):53–5

Clinical crossroads: a 65-year-old man with an inguinal hernia [letter; comment] Hamlin JA. **JAMA** 1997 Jun 4; 277(21):1678–9; discussion 1679. Comment on: JAMA 1997 Feb 26;277(8):663–9.

[Recurrent crural hernia. Use of CT in the preoperative assessment: 2 cases] Caltagirone G, et al. **Radiol Med (Torino)** 1996 Dec;92(6):820–1 **(Ita)**

RADIONUCLIDE IMAGING

Demonstration of subclinical inguinal hernia by peritoneal scintigraphy. Gupta SM, et al. **Clin Nucl Med** 1997 Jun; 22(6):409–10

REHABILITATION

Quality of life in patients undergoing inguinal hernia repair. Lawrence K, et al. **Ann R Coll Surg Engl** 1997 Jan; 79(1):40–5

SURGERY

Early repair of inguinal hernia in preterm infants with oxygen-dependent bronchopulmonary dysplasia. Emberton M, et al. **Acta Paediatr** 1996 Jan;85(1):96–9

The tension-free hernioplasty in a randomized trial [see comments] Friis E, et al. **Am J Surg** 1996 Oct;172(4):315–9 . Comment in: Am J Surg 1997 May;173(5):455.

Teaching three-dimensional surgical concepts of inguinal hernia in a time-effective manner using a two-dimensional paper-cut. Mann BD, et al. **Am J Surg** 1997 Jun; 173(6):542–5

Laparoscopic inguinal hernia repair: is the enthusiasm justified? Cooper SS, et al. **Am Surg** 1997 Jan;63(1):103–6

500 total extraperitoneal approach laparoscopic herniorrhaphies: a single-institution review. Heithold DL, et al. **Am Surg** 1997 Apr;63(4):299–301

Total extraperitoneal laparoscopic hernia repair: a modified technique associated with few complications and a low early recurrence rate. Kakkis JL, et al. **Am Surg** 1996 Oct; 62(10):846–8

Moran repair for inguinal hernias. Moran RM, et al. **Am Surg** 1997 May;63(5):430–3

Transabdominal preperitoneal laparoscopic inguinal herniorrhaphy: results of 509 repairs. Quilici PJ, et al. **Am Surg** 1996 Oct;62(10):849–52

Comparison of tenoxicam by intramuscular injection or wound infiltration for analgesia after inguinal herniorrhaphy [see comments] Mikkelsen SS, et al. **Anesth Analg** 1996 Dec;83(6):1239–43. Comment in: Anesth Analg 1997 May;84(5):1168–9.

Reducing pain after inguinal hernia repair in children: caudal anesthesia versus ketorolac tromethamine. Splinter WM, et al. **Anesthesiology** 1997 Sep;87(3):542–6

Laparoscopic hernia repair—what are the results? Misra MC, et al. **Ann Acad Med Singapore** 1996 Sep;25(5):737–41 (26 ref.)

Iatrogenic injury to the ilioinguinal and iliohypogastric nerves in the groin: a case report, diagnosis, and management. Choi PD, et al. **Ann Plast Surg** 1996 Jul; 37(1):60–5

Comparison of diclofenac sodium and morphine sulphate for postoperative analgesia after day case inguinal hernia surgery [letter; comment] Alberts JC. **Ann R Coll Surg Engl** 1997 Mar;79(2):155–6. Comment on: Ann R Coll Surg Engl 1996 Jul;78(4):363–6.

Comparison of diclofenac sodium and morphine sulphate for postoperative analgesia after day case inguinal hernia surgery [letter; comment] Anyanwu A. **Ann R Coll Surg Engl** 1997 Mar;79(2):155. Comment on: Ann R Coll Surg Engl 1996 Jul;78(4):363–6.

Quality of life in patients undergoing inguinal hernia repair. Lawrence K, et al. **Ann R Coll Surg Engl** 1997 Jan; 79(1):40–5

Simultaneous repair of bilateral inguinal hernias under local anesthesia [letter; comment] Celdrán A, et al. **Ann Surg** 1997 Jul;226(1):113–4. Comment on: Ann Surg 1996 Mar;223(3):249–52.

Cooperative hernia study. Pain in the postrepair patient. Cunningham J, et al. **Ann Surg** 1996 Nov;224(5):598–602

Mechanisms of hernia recurrence after preperitoneal mesh repair. Traditional and laparoscopic. Lowham AS, et al. **Ann Surg** 1997 Apr;225(4):422–31 (49 ref.)

Different methods of hernia repair [letter; comment] Rutledge RH. **Ann Surg** 1997 Feb;225(2):239–40. Comment on: Ann Surg 1995 Dec;222(6):719–27.

Simultaneous repair of bilateral inguinal hernias under local anesthesia [letter; comment] Voeller GR, et al. **Ann Surg** 1997 Feb;225(2):240–1. Comment on: Ann Surg 1996 Mar;223(3):249–52.

A prospective, randomized study of open vs laparoscopic inguinal hernia repair. An assessment of postoperative pain. Kozol R, et al. **Arch Surg** 1997 Mar;132(3):292–5

Revascularization of the testis following inadvertent division of the testicular vessels during hernia repair. Kumta SM, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):140–1

Mesh hernioplasty using a stapler. Ng EK, et al. **Aust N Z J Surg** 1996 Nov;66(11):751–2

Intestinal obstruction following transabdominal preperitoneal laparoscopic inguinal hernia repair. Rodda DJ, et al. **Aust N Z J Surg** 1997 Feb–Mar;67(2–3):142–3

Assessment of cardiovascular changes during laparoscopic hernia repair using oesophageal Doppler. Haxby EJ, et al. **Br J Anaesth** 1997 May;78(5):515–9

Efficacy and safety of promethazine hydrochloride as a local anaesthetic agent for inguinal hernia repair: a pilot study. Kumar S, et al. **Br J Clin Pract** 1997 Jan–Feb;51(1):33–5

Preliminary experience with butyl-2-cyanoacrylate adhesive in tension-free inguinal hernia repair [letter; comment] Cheek CM. **Br J Surg** 1996 Dec;83(12):1795. Comment on: Br J Surg 1996 Aug;83(8):1100.

Exclusion from day surgery: a 1-year clinical audit. Clark SK, et al. **Br J Surg** 1996 Oct;83(10):1384–5

Lateral approach to balloon-aided laparoscopic preperitoneal inguinal hernia repair. de Baert M, et al. **Br J Surg** 1997 Jul;84(7):981–2

Preliminary experience with butyl-2-cyanoacrylate adhesive in tension-free inguinal hernia repair [see comments] Farouk R, et al. **Br J Surg** 1996 Aug;83(8):1100. Comment in: Br J Surg 1996 Dec;83(12):1795. Comment in: Br J Surg 1997 Jan;84(1):137–8.

Hernia repair in elderly patients. Gianetta E, et al. **Br J Surg** 1997 Jul;84(7):983–5

Strengths and weaknesses of laparoscopic and open mesh inguinal hernia repair: a randomized controlled experimental study. Horgan LF, et al. **Br J Surg** 1996 Oct; 83(10):1463–7

Preliminary experience with butyl-2-cyanoacrylate adhesive in tension-free inguinal hernia repair [letter; comment] Horgan LF, et al. **Br J Surg** 1997 Jan;84(1):137–8. Comment on: Br J Surg 1996 Aug;83(8):1100.

Primary metastatic bladder carcinoma during pregnancy.rent groin hernia. Kald A, et al. **Br J Surg** 1997 Mar;84(3):313

A randomized comparison of physical performance following laparoscopic and open inguinal hernia repair. The Coala Trial Group. Liem MS, et al. **Br J Surg** 1997 Jan;84(1):64–7

Laparoscopic inguinal hernia repair [see comments] Liem MS, et al. **Br J Surg** 1996 Sep;83(9):1197–1204 (96 ref.). Comment in: Br J Surg 1996 Dec;83(12):1795. Comment in: Br J Surg 1997 Apr;84(4):579–80.

Prospective randomized trial comparing postoperative pain and return to physical activity after transabdominal preperitoneal, total preperitoneal or Shouldice technique for inguinal hernia repair [letter; comment] Negro P, et al. **Br J Surg** 1997 May;84(5):728–9. Comment on: Br J Surg 1996 Nov;83(11):1563–6.

Laparoscopic inguinal hernia repair [letter; comment] Notaras MJ. **Br J Surg** 1997 Apr;84(4):579–80. Comment on: Br J Surg 1996 Sep;83(9):1197–1204.

Use of a preperitoneal prosthesis for strangulated groin hernia. Pans A, et al. **Br J Surg** 1997 Mar;84(3):310–2

Prospective randomized trial comparing postoperative pain and return to physical activity after transabdominal preperitoneal, total preperitoneal or Shouldice technique for inguinal hernia repair [see comments] Schrenk P, et al. **Br J Surg** 1996 Nov;83(11):1563–6. Comment in: Br J Surg 1997 May;84(5):728–9.

Laparoscopic inguinal hernia repair [letter; comment] Slim K, et al. **Br J Surg** 1996 Dec;83(12):1795. Comment on: Br J Surg 1996 Sep;83(9):1197–1204.

Totally preperitoneal endoscopic inguinal hernia repair. Topal B, et al. **Br J Surg** 1997 Jan;84(1):61–3

The Shouldice technique: a canon in hernia repair. Bendavid R. **Can J Surg** 1997 Jun;40(3):199–205, 207 (61 ref.)

Sutureless technique: second version. Gilbert AI, et al. **Can J Surg** 1997 Jun;40(3):209–12

Laparoscopic groin hernia surgery: the TAPP procedure. Transabdominal preperitoneal hernia repair. Litwin DE, et al. **Can J Surg** 1997 Jun;40(3):192–8

Symposium on the management of inguinal hernias. 1. Introduction. Poulin EC, et al. **Can J Surg** 1997 Jun; 40(3):185

The repair of inguinal hernia: 110 years after Bassini. Wexler MJ. **Can J Surg** 1997 Jun;40(3):186–91 (45 ref.)

Local anaesthesia in inguinal herniorrhaphy: our experience in Ile-Ife, Nigeria. Agbakwuru E, et al. **Cent Afr J Med** 1995 Dec;41(12):405–9

Variations in the inferior pelvic pathway of the lateral femoral cutaneous nerve: implications for laparoscopic hernia repair. Dibenedetto LM, et al. **Clin Anat** 1996; 9(4):232–6

Is inguinal hernia a defect in human evolution and would this insight improve concepts for methods of surgical repair? McArdle G. **Clin Anat** 1997;10(1):47–55

Open "tension-free" repair of inguinal hernias: the Lichtenstein technique. Amid PK, et al. **Eur J Surg** 1996 Jun;162(6):447–53

Preoperative local infiltration with ropivacaine for postoperative pain relief after inguinal hernia repair. A randomised controlled trial. Johansson B, et al. **Eur J Surg** 1997 May;163(5):371–8

Surgical outcome and cost-minimisation-analyses of laparoscopic and open hernia repair: a randomised prospective trial with one year follow up. Kald A, et al. **Eur J Surg** 1997 Jul;163(7):505–10

Repeated macroscopic haematuria caused by intravesical migration of a preperitoneal prosthesis. Savioz D, et al. **Eur J Surg** 1997 Aug;163(8):631–2

Inguinal hernia repair: incidence of elective and emergency surgery, readmission and mortality [letter; comment] Cheek CM. **Int J Epidemiol** 1997 Apr;26(2):459–61. Comment on: Int J Epidemiol 1996 Aug;25(4):835–9.

Inguinal hernia repair: incidence of elective and emergency surgery, readmission and mortality [see comments] Primatesta P, et al. **Int J Epidemiol** 1996 Aug;25(4):835–9 . Comment in: Int J Epidemiol 1997 Apr;26(2):459–61.

Hernioscopy: technique and indications. Timsit G. **Int Surg** 1997 Jan–Mar;82(1):105–6

The Lichtenstein open tension-free inguinal hernia repair using a new prosthetic mesh-Bulgarian irresorbable ampoxen. Velitchkov NG, et al. **Int Surg** 1996 Apr–Jun; 81(2):205–9

A placebo controlled double blind study using perioperative prazosin in the prevention of urinary retention following inguinal hernia repair. Woo HH, et al. **Int Urol Nephrol** 1995;27(5):557–62

Clinical and anatomic features of the inguinal canal during hernia. Peri G, et al. **Ital J Anat Embryol** 1996 Apr–Jun; 101(2):69–80

Low inguinal groove incision for indirect inguinal hernias in girls: a preliminary report on an incisional proposal. Gökçora IH. **J Am Coll Surg** 1996 Oct;183(4):384–6

Laparoscopic herniorrhaphy. Memon MA, et al. **J Am Coll Surg** 1997 Mar;184(3):325–35 (80 ref.)

Experience with the tension-free hernioplasty for primary inguinal hernias in men. Wantz GE. **J Am Coll Surg** 1996 Oct;183(4):351–6

Laparoscopic herniorrhaphy [editorial] Wantz GE. **J Am Coll Surg** 1997 May;184(5):521–2

What needs to be said? Informed consent in the context of spinal anesthesia. Liang BA, et al. **J Clin Anesth** 1996 Sep; 8(6):525–7

Postoperative oxygen desaturation requiring clinical intervention in premature infants receiving spinal anesthesia for inguinal herniorrhaphy [letter] Sukhani R, et al. **J Clin Anesth** 1997 Sep;9(6):520–1

Experimental study investigating the feasibility of a new method for laparoscopic indirect inguinal hernia repair. Olguner M, et al. **J Invest Surg** 1997 Jul–Aug;10(4):189–92; discussion 192–3

The efficacy of epidural anesthesia for endoscopic preperitoneal herniorrhaphy: a prospective study. Azurin DJ, et al. **J Laparoendosc Surg** 1996 Dec;6(6):369–73

Laparoscopic transabdominal preperitoneal hernioplasty: results of 1000 consecutive cases. Birth M, et al. **J Laparoendosc Surg** 1996 Oct;6(5):293–300 (52 ref.)

Mesh migration following laparoscopic inguinal hernia repair. Hume RH, et al. **J Laparoendosc Surg** 1996 Oct; 6(5):333–5

Laparoscopic herniorrhaphy versus traditional open repair at a community hospital [see comments] Lukaszczyk JJ, et al. **J Laparoendosc Surg** 1996 Aug;6(4):203–8. Comment in: J Laparoendosc Surg 1996 Aug;6(4):209–11.

Endoscopic extraperitoneal herniorrhaphy in 316 patients. Massaad AA, et al. **J Laparoendosc Surg** 1996 Feb;6(1):13–6

Blunt preperitoneal finger dissection during extraperitoneal laparoscopic inguinal hernia repair: an effective alternative to instrumental techniques. Posta CG. **J Laparoendosc Surg** 1996 Feb;6(1):47–9

Results of a prospective multicenter trial evaluating the ePTFE peritoneal onlay laparoscopic inguinal hernioplasty. Toy FK, et al. **J Laparoendosc Surg** 1996 Dec;6(6):375–86

Laparoscopic versus open inguinal herniorrhaphy: a critical appraisal [editorial; comment] Wexler MJ. **J Laparoendosc Surg** 1996 Aug;6(4):209–11. Comment on: J Laparoendosc Surg 1996 Aug;6(4):203–8.

New trends: preperitoneal laparoscopic inguinal hernia repair. Ammar G, et al. **J Med Liban** 1996;44(3):138–41

Inguinal hernioplasty with polypropylene mesh. Arya J, et al. **J Miss State Med Assoc** 1996 Jan;37(1):431–3

Early versus delayed repair of reduced incarcerated inguinal hernias in the pediatric population. Gahukamble DB, et al. **J Pediatr Surg** 1996 Sep;31(9):1218–20

Laparoscopic evaluation for contralateral patent processus vaginalis: Part II. Holcomb GW 3rd, et al. **J Pediatr Surg** 1996 Aug;31(8):1170–3

Assessment of the postoperative visit after routine inguinal hernia repair: a prospective randomized trial. Khan Y, et al. **J Pediatr Surg** 1997 Jun;32(6):892–3

Morbidity after neonatal inguinal herniotomy. Phelps S, et al. **J Pediatr Surg** 1997 Mar;32(3):445–7

Hernia survey of the Section on Surgery of the American Academy of Pediatrics. Wiener ES, et al. **J Pediatr Surg** 1996 Aug;31(8):1166–9

Laparoscopy through the open ipsilateral sac to evaluate presence of contralateral hernia. Wulkan ML, et al. **J Pediatr Surg** 1996 Aug;31(8):1174–6; discussion 1176–7

The incidence of positive contralateral inguinal exploration among preschool children--a retrospective and prospective study. Zona JZ. **J Pediatr Surg** 1996 May;31(5):656–60

A comparison of laparoscopic and open inguinal hernia repair in servicemen. Andrew DR, et al. **J R Army Med Corps** 1994 Jun;140(2):76–8

A prospective study of adult inguinal hernia repairs using absorbable sutures. Dick AC, et al. **J R Coll Surg Edinb** 1996 Oct;41(5):319–20

Streptococcal necrotizing fasciitis complicating elective inguinal herniorrhaphy. Loudon MA, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):272–3

Laparoscopic inguinal hernioplasty: a community hospital's experience. Zeidan BS, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):226–30

A 65-year-old man with an inguinal hernia, 1 year later. Delbanco TL, et al. **JAMA** 1997 Sep 24;278(12):1021

An audit of sutures utilised for inguinal herniorrhaphy in a surgical unit. Siddiqui MN, et al. **JPMA J Pak Med Assoc** 1996 May;46(5):112–3

First laparoscopic hernia repair onboard an aircraft carrier at sea. Cubano MA, et al. **Mil Med** 1997 Mar;162(3):219–20

Conventional versus laparoscopic surgery for inguinal-hernia repair [letter] Avital S, et al. **N Engl J Med** 1997 Oct 9; 337(15):1089–90; discussion 1090

Conventional versus laparoscopic surgery for inguinal-hernia repair [letter] Gilbert AI, et al. **N Engl J Med** 1997 Oct 9;337(15):1090

Comparison of conventional anterior surgery and laparoscopic surgery for inguinal-hernia repair [see comments] Liem MS, et al. **N Engl J Med** 1997 May 29; 336(22):1541–7. Comment in: N Engl J Med 1997 May 29;336(22):1596–7.

Old and new ways to repair inguinal hernias [editorial; comment] Meakins JL, et al. **N Engl J Med** 1997 May 29; 336(22):1596–7. Comment on: N Engl J Med 1997 May 29;336(22):1541–7.

Is the ascending testis actually 'stationary'? Normal elongation of the spermatic cord is prevented by a fibrous remnant of the processus vaginalis. Clarnette TD, et al. **Pediatr Surg Int** 1997 Feb;12(2–3):155–7

Inguinal hernia in children: US versus exploratory surgery and intraoperative contralateral laparoscopy. Chou TY, et al. **Radiology** 1996 Nov;201(2):385–8

Use of spinal or continuous caudal anesthesia for inguinal hernia repair in premature infants: are there advantages? Broadman LM. **Reg Anesth** 1996 Nov–Dec;21(6 Suppl):108–13 (27 ref.)

The clinical anatomy of laparoscopic inguinal hernia repair. Marks SC Jr, et al. **Singapore Med J** 1996 Oct;37(5):519–21

Endoscopically guided percutaneous repair of inguinal hernia through a 2-cm incision. Minihernia repair. Darzi A, et al. **Surg Endosc** 1997 Jul;11(7):782–4

Herniography and ultrasonography. A prospective study comparing the effectiveness of laparoscopic hernia repair with extraperitoneal balloon dissection. Dilek ON, et al. **Surg Endosc** 1997 Jan;11(1):29–31

Laparoscopic hernioplasty: why does it work? Felix EL, et al. **Surg Endosc** 1997 Jan;11(1):36–41

Pneumothorax as a complication of laparoscopic inguinal hernia repair. Ferzli GS, et al. **Surg Endosc** 1997 Feb; 11(2):152–3

The role of the endoscopic extraperitoneal approach in large inguinal scrotal hernias. Ferzli GS, et al. **Surg Endosc** 1997 Mar;11(3):299–302

An assessment of pain and return to normal activity. Laparoscopic herniorrhaphy vs open tension-free Lichtenstein repair. Filipi CJ, et al. **Surg Endosc** 1996 Oct; 10(10):983–6

Laparoscopic approach to incarcerated inguinal hernia. Ishihara T, et al. **Surg Endosc** 1996 Nov;10(11):1111–3

Ileocutaneous fistula formation following laparoscopic polypropylene mesh hernia repair. Miller K, et al. **Surg Endosc** 1997 Jul;11(7):772–3

Adhesion formation in laparoscopic inguinal hernia repair. Vader VL, et al. **Surg Endosc** 1997 Aug;11(8):825–9

Preperitoneal bilateral inguinal herniorrhaphy evolution of a technique from conventional to laparoscopic. Velasco JM, et al. **Surg Endosc** 1996 Feb;10(2):122–7

Mesh infections after laparoscopic inguinal hernia repair. Avtan L, et al. **Surg Laparosc Endosc** 1997 Jun;7(3):192–5

Laparoscopic hernia repair in the community hospital setting. Davis AB. **Surg Laparosc Endosc** 1996 Dec;6(6):448–52

Total costs of laparoscopic and lichtenstein inguinal hernia repairs: a randomized prospective study. Heikkinen T, et al. **Surg Laparosc Endosc** 1997 Feb;7(1):1–5

Intestinal obstruction after laparoscopic herniorrhaphy. Huang SM, et al. **Surg Laparosc Endosc** 1997 Aug; 7(4):288–90

Transperitoneal or totally extraperitoneal approach in laparoscopic hernia repair: results of 491 consecutive herniorrhaphies. Kald A, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):86–9

Comparison of adhesion formation and tensile strength after three laparoscopic herniorrhaphy techniques. Rasim ZM, et al. **Surg Laparosc Endosc** 1997 Apr;7(2):133–6

Inguinal hernia repair with flap of the anterior sheath of the rectus muscle: preliminary study [letter; comment] Liang JT, et al. **Surgery** 1997 Jun;121(6):719. Comment on: Surgery 1996 Sep;120(3):560–2.

Use of laparoscopic instrumentation to quickly stretch the abdominal wall in repair of giant inguinal hernias [letter] Myers B. **Surgery** 1997 Apr;121(4):477

Laparoscopic pelvic lymphadenectomy combined with inguinal herniorrhaphy. Gomella LG, et al. **Tech Urol** 1995 Spring;1(1):49–53

Inflated Foley's catheter balloon as the cause of irreducible sliding inguinal hernia. Agbakwuru EA. **Trop Doct** 1996 Oct;26(4):189

The effect of low-dose subcutaneous heparin on postoperative wound hematomas: randomized clinical trial on hospitalized inguinal hernia patients in Germany [letter; comment] Goris RJ. **World J Surg** 1996 Mar–Apr; 20(3):378–9. Comment on: World J Surg 1995 May–Jun;19(3):416–8; discussion 419.

Historical evolution of inguinal hernia repair. Sachs M, et al. **World J Surg** 1997 Feb;21(2):218–23 (28 ref.)

[Radionuclide diagnosis of the degree of structural changes in the testes after herniotomy] Sultanov S. **Khirurgiia (Sofiia)** 1996;49(1):27–30 (Eng. Abstr.) **(Bul)**

[Laparoscopic inguinal hernioplasty--results in the initial group 2 years after surgery] Cierny M, et al. **Rozhl Chir** 1997 Jun;76(6):297–301 (Eng. Abstr.) **(Cze)**

[Laparoscopic reconstruction in inguinal hernias] Czudek S. **Rozhl Chir** 1997 Feb;76(2):90–6 (Eng. Abstr.) **(Cze)**

[Surgery of inguinal hernia in a clinical department] Kala Z, et al. **Rozhl Chir** 1996 Sep;75(9):433–7 (Eng. Abstr.) **(Cze)**

[Hernia operations using synthetic materials] Kuthan D. **Rozhl Chir** 1996 Aug;75(8):394–7 (Eng. Abstr.) **(Cze)**

[Recurrence of inguinal hernia: ambulatory surgery under local anesthesia] Callesen T, et al. **Ugeskr Laeger** 1996 Dec 2;158(49):7057–60 (Eng. Abstr.) **(Dan)**

[Tension-free inguinal and femoral hernioplasty using a mesh of plastic material] Dissing CK, et al. **Ugeskr Laeger** 1996 Dec 2;158(49):7061–3 (Eng. Abstr.) **(Dan)**

[The physician can recommend a procedure. But only God knows whether the patient can tolerate it] Jacobsen JB, et al. **Ugeskr Laeger** 1997 Feb 17;159(8):1118–9 **(Dan)**

[Thromboembolic complications after ambulatory herniotomy] Riber C, et al. **Ugeskr Laeger** 1997 May 26; 159(22):3401–2 (Eng. Abstr.) **(Dan)**

[More recurrencies than expected following inguinal hernia surgery] Simons MP, et al. **Ned Tijdschr Geneeskd** 1996 Dec 14;140(50):2506–9 (Eng. Abstr.) **(Dut)**

[Laparoscopic treatment of inguinal hernias by extraperitoneal approach. Technique and results apropos of 864 hernias] Begin GF. **Ann Chir** 1996;50(9):782–9 (Eng. Abstr.) **(Fre)**

[Treatment of inguinal hernias. Value of the insertion of an unsplit dacron mesh with parietalization of the cord elements by inguinal approach. Apropos of 1017 cases] Bouillot JL, et al. **Ann Chir** 1996;50(9):803–7 (Eng. Abstr.) **(Fre)**

[Damage to the inguino-femoral nerves in the treatment of hernias. An anatomical hazard of traditional and laparoscopic techniques] Chevallier JM, et al. **Ann Chir** 1996;50(9):767–75 (Eng. Abstr.) **(Fre)**

[Use of a slow resorption synthetic suture in the treatment of inguinal hernias by inguinal approach (154 cases)] Deroide JP, et al. **Ann Chir** 1996;50(9):741–5 (14 ref.) (Eng. Abstr.) **(Fre)**

[Surgical treatment of inguinal hernia. Which criteria to be used for assessment?] Fingerhut A, et al. **Ann Chir** 1996; 50(9):832–7 (62 ref.) **(Fre)**

[Celioscopic treatment of recurrence of inguinal hernia after insertion of a prosthesis. Value of the intraperitoneal technique with ePTFE patch? Group CHIC (Cure des Hernies Inguino-Crurales sous Coelioscopie)] Gillion JF, et al. **Ann Chir** 1996;50(9):821–6 (Eng. Abstr.) **(Fre)**

[Two-year results of celioscopic hernioplasties using an intraperitoneal ePTFE patch. A prospective multicenter study of 184 cases. Groupe CHIC (Cure des hernies inguinocrurales sous coelioscopie)] Gillion JF, et al. **Ann Chir** 1996;50(9):799–802 (Eng. Abstr.) **(Fre)**

[Prospective controlled study comparing laparoscopy and the Shouldice technique in the treatment of unilateral inguinal hernia] Hauters P, et al. **Ann Chir** 1996;50(9):776–81 (Eng. Abstr.) **(Fre)**

[Treatment of inguinal hernias by Mc Vay's technique. Apropos of 1332 cases] Izard G, et al. **Ann Chir** 1996; 50(9):755–66 (36 ref.) (Eng. Abstr.) **(Fre)**

[Treatment of inguinal hernia by laparoscopy. Four-year results of the transpreperitoneal approach] Johanet H, et al. **Ann Chir** 1996;50(9):790–4 (Eng. Abstr.) **(Fre)**

[Organization and results of the treatment of inguinal hernia by laparoscopy in ambulatory surgery. Immediate results] Johanet H, et al. **Ann Chir** 1996;50(9):814–9 (Eng. Abstr.) **(Fre)**

[Treatment of inguinal hernias by transperitoneal celioscopic approach] Lecalvé JL, et al. **Ann Chir** 1996;50(9):795–8 **(Fre)**

[Treatment of inguinal hernias by classical approach and under local anesthesia] Lerut JP, et al. **Ann Chir** 1996; 50(9):747–54 (Eng. Abstr.) **(Fre)**

[Inguinal hernia: contribution of randomized studies over the last 10 years] Parc Y, et al. **Ann Chir** 1996;50(9):827–31 (18 ref.) (Eng. Abstr.) **(Fre)**

[Repair of inguinal hernias without tension and without suture using a large dacron mesh prosthesis and by pre-peritoneal approach. A method of reference for selective indication] Stoppa R, et al. **Ann Chir** 1996; 50(9):808–13 (20 ref.) (Eng. Abstr.) **(Fre)**

[Role of pre-slit Crinofil prostheses in the treatment of inguinal hernias by extra-peritoneal approach. Apropos of 400 cases] Kron C, et al. **Chirurgie** 1996;121(3):168–72; discussion 172–4 (Eng. Abstr.) **(Fre)**

[Discussion on the communication by X. Henry (15 February 1995). Is there a reasonable role for prosthetic materials in the treatment of hernia emergencies?] Vayre P, et al. **Chirurgie** 1996;121(3):161–2 **(Fre)**

[My experience in repairing, without tension, primary inguinal hernia in men] Wantz GE. **Chirurgie** 1997; 122(2):111–6 (Eng. Abstr.) **(Fre)**

[Recurrent inguinal hernia. Propositions of classification and surgical strategy] Campanelli G, et al. **J Chir (Paris)** 1996 Sep;133(6):270–3 (Eng. Abstr.) **(Fre)**

[Inguinal hernia. Pre-peritoneal laparoscopic surgery vs. the Stoppa procedure. A prospective randomized trial: 100 cases] Champault G, et al. **J Chir (Paris)** 1996 Sep; 133(6):274–80 (Eng. Abstr.) **(Fre)**

[Prosthesis and emergency surgery of hernia] Gavioli M, et al. **J Chir (Paris)** 1996 Nov;133(7):317–9 (Eng. Abstr.) **(Fre)**

[Evaluation of 102 inguinal hernias treated with transperitoneal laparoscopy] Dunand N, et al. **Rev Med Suisse Romande** 1997 Feb;117(2):99–102 **(Fre)**

[Ovarian hernia in girls] Ricci C, et al. **Rev Med Suisse Romande** 1996 Dec;116(12):959–63 **(Fre)**

[Endoscopic hernia surgery (TAPP)--gold standard in management of recurrent hernias? Comment on the contribution by B. Leibl et al. (letter)] Eichhorn J, et al. **Chirurg** 1997 Apr;68(4):447; discussion 448–50 **(Ger)**

[Laparoscopic endoscopic pre-peritoneal combined hernia operation in incarcerated indirect inguinal hernia] Feigel M, et al. **Chirurg** 1996 Feb;67(2):188–9 (Eng. Abstr.) **(Ger)**

[Distal perforation of the small intestine by PEG endpiece in an inguinal hernia patient] Fusetti C, et al. **Chirurg** 1997 Mar;68(3):274–6 (Eng. Abstr.) **(Ger)**

[Surgery of inguinal hernia in Switzerland in 1994. A survey of 142 teaching clinics in Switzerland] Herzog U, et al. **Chirurg** 1996 Sep;67(9):921–6 (Eng. Abstr.) **(Ger)**

[Endoscopic hernia surgery (TAPP)--gold standard in the management of recurrent hernia? Comments on the contribution by B. Leible et al. (letter)] Höhle KD, et al. **Chirurg** 1997 Apr;68(4):448; discussion 448–50 **(Ger)**

["Tension-free" repair of inguinal hernia: laparoscopic (TAPP) versus open (Lichtenstein) repair] Horeyseck G, et al. **Chirurg** 1996 Oct;67(10):1036–40 (Eng. Abstr.) **(Ger)**

[Topographic-anatomic aspects of laparoscopic management of inguinal hernia] Kunz R, et al. **Chirurg** 1996 Aug; 67(8):807–13 (31 ref.) (Eng. Abstr.) **(Ger)**

[Endoscopic hernia surgery (TAPP)--gold standard in the management of recurrent hernias? Comments on the contribution by B. Leibl et al. (letter)] Kux M. **Chirurg** 1997 Apr;68(4):447–8; discussion 448–50 **(Ger)**

[Endoscopic hernia surgery (TAPP)--gold standard in management of recurrent hernias?] Leibl B, et al. **Chirurg** 1996 Dec;67(12):1226–30 (Eng. Abstr.) **(Ger)**

[Value of subcutaneous drainage in repair of primary inguinal hernia. A prospective randomized study of 100 cases] Peiper C, et al. **Chirurg** 1997 Jan;68(1):63–7 (Eng. Abstr.) **(Ger)**

[Does a shower put postoperative wound healing at risk?] Riederer SR, et al. **Chirurg** 1997 Jul;68(7):715–7; discussion 717 (Eng. Abstr.) **(Ger)**

["Tension-free technique" in open inguinal hernia repair. A prospective, randomized study of postoperative pain perception ("tension-free reconstruction" vs. Shouldice technique)] Schmitz R, et al. **Chirurg** 1997 Mar;68(3):259–63 (Eng. Abstr.) **(Ger)**

[Relevance of the fascia transversalis in inguinal hernia repair using total extraperitoneal plastic reconstruction] Witte H, et al. **Chirurg** 1997 May;68(5):493–5 (Eng. Abstr.) **(Ger)**

[The patient must depend on the advice of the surgeon. Prof. Dr. med. K.-W. Jauch, Regensburg, on endoscopic operation of inguinal hernia (interview by Dr. rer. nat. Anita Scheiger)] Jauch KW. **Fortschr Med** 1997 Mar 20; 115(8):38–9 **(Ger)**

[Abdominal surgery--value of endoscopic interventions. For which indications is laparoscopic procedure the standard already today?] Mappes HJ, et al. **Fortschr Med** 1997 Mar 20;115(8):33–4 **(Ger)**

[Inguinal hernia--which method leads to the goal? Endoscopic and open surgical procedures are available] Waninger J. **Fortschr Med** 1997 Mar 20;115(8):26, 29–32 (31 ref.) (Eng. Abstr.) **(Ger)**

[Late outcome of Lotheissen-McVay herniotomy 20 years postoperative] Bruns W, et al. **Langenbecks Arch Chir** 1996; 381(5):263–6 (Eng. Abstr.) **(Ger)**

[Laparoscopic or conventional repair of inguinal hernia with synthetic mesh?] Zieren J, et al. **Langenbecks Arch Chir** 1996;381(5):289–94 (Eng. Abstr.) **(Ger)**

[Effect of endoscopic pre-peritoneal inguinal hernia repair and Shouldice inguinal hernia repair on T-cell differentiation] Decker D, et al.
Langenbecks Arch Chir Suppl Kongressbd 1997;114:261–5 (Eng. Abstr.) **(Ger)**

[Endoscopic extraperitoneal patch-plasty of inguinal and femoral hernias without suture or staple fixation of the polypropylene patch] Faust H, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:603–5 (Eng. Abstr.) **(Ger)**

[The Lichtenstein technique--"minimally invasive surgical procedure". Experiences and results of 251 hernia repairs] Gai H. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:606–8 (Eng. Abstr.) **(Ger)**

[Endoscopic extraperitoneal hernioplasty in comparison with conventional surgical procedures--a prospective controlled study] Haug-Gebhard S, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:611–3 (Eng. Abstr.) **(Ger)**

[Laparoscopic or conventional inguinal hernia repair with or without implant. A prospective randomized study] Zieren J, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:609–10 **(Ger)**

[Endoscopic pre-peritoneal prolene mesh-plasty for management of inguinal and femoral hernias] Nussbaumer P, et al. **Swiss Surg** 1997;3(3):121–4 (Eng. Abstr.) **(Ger)**

[Pro-Shouldice: primary tension-free hernia repair--conditio sine qua non?] Schippers E, et al. **Swiss Surg** 1996;Suppl 4:33–6 (Eng. Abstr.) **(Ger)**

[Quality assurance in surgery (letter)] Brockmüller U.
Zentralbl Chir 1996;121(9):801 **(Ger)**

[Cost analysis of inguinal hernia surgery in ambulatory and inpatient management] van den Oever R, et al.
Zentralbl Chir 1996;121(10):836–40 (Eng. Abstr.) **(Ger)**

[Effectiveness on the vicryl pad in treatment of primary, recurrent and re-recurrent inguinal hernias--10 years experiences] Willmen HR, et al. **Zentralbl Chir** 1996; 121(1):14–20 (Eng. Abstr.) **(Ger)**

[The plug and patch repair for managing the inguinal hernia of the adult] Zieren J, et al. **Zentralbl Chir** 1997; 122(7):545–50 (Eng. Abstr.) **(Ger)**

[Surgical treatment of inguinal hernia in infants and children] Katz S. **Harefuah** 1997 Jun 1;132(11):798–802 (14 ref.) **(Heb)**

[New possibility in inguino-femoral hernia repair: laparoscopic herniaplasty] Bátorfi J, et al. **Orv Hetil** 1996 Jun 23;137(25):1359–62 (Eng. Abstr.) **(Hun)**

[Preliminary experience in prosthetic hernia surgery] Pugliano G. **Acta Biomed Ateneo Parmense** 1995; 66(6):229–32 (Eng. Abstr.) **(Ita)**

[Evaluation of costs in surgery of inguinal hernia. Day surgery and one day surgery versus ordinary admission] Saviano MS, et al. **Ann Ital Chir** 1996 Sep–Oct;67(5):615–9 (Eng. Abstr.) **(Ita)**

[The Shouldice plastic surgery: our clinical experience] Elio A, et al. **Chir Ital** 1995;47(4):56–8 (Eng. Abstr.) **(Ita)**

[Hernioplasty using a Lichtenstein polypropylene mesh] Uggeri F, et al. **G Chir** 1997 Jun–Jul;18(6–7):373–4 (Eng. Abstr.) **(Ita)**

[Prosthetic repair of inguino-crural hernia using Rives technique] Coda A, et al. **Minerva Chir** 1997 Mar; 52(3):175–80 (Eng. Abstr.) **(Ita)**

[Stoppa's intervention. The complications nd results] Coda A, et al. **Minerva Chir** 1997 May;52(5):565–9 (Eng. Abstr.) **(Ita)**

[Lichtenstein's technic in the repair of inguinal hernias] Donnola G, et al. **Minerva Chir** 1997 May;52(5):571–6 (Eng. Abstr.) **(Ita)**

[Surgical treatment of inguinal hernia using a "tension-free" technique and local anesthesia. Initial experience] Gianetta E, et al. **Minerva Chir** 1996 Jun;51(6):405–12 (Eng. Abstr.) **(Ita)**

[The evolutionary principles of inguinal hernioplasty through our personal experience] Maturanza M, et al.
Minerva Chir 1997 Apr;52(4):411–3 (Eng. Abstr.) **(Ita)**

[Local anesthesia in the surgery of inguinal hernia. Technical notes] Palumbo P, et al. **Minerva Chir** 1997 Apr; 52(4):509–12 (Eng. Abstr.) **(Ita)**

[Prosthetic bilateral laparoscopic hernioplasty. Extra-peritoneal approach] Rossi M, et al.
Minerva Chir 1997 Mar;52(3):169–74 (Eng. Abstr.) **(Ita)**

[Hernia surgery with short hospitalization] Vasquez G, et al. **Minerva Chir** 1996 Sep;51(9):635–9 (Eng. Abstr.) **(Ita)**

[Proposal for update of Bassini's procedure in the treatment of inguinal hernia under local anesthesia] Vitali A, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):149–52 (Eng. Abstr.) **(Ita)**

[Epidural anesthesia for herniorrhaphy in a patient with severe dilated cardiomyopathy (DCM) under pimobendan control] Shiraishi M, et al. **Masui** 1997 Jan;46(1):114–8 (Eng. Abstr.) **(Jpn)**

[Laparoscopic hernia repair. A useful method for surgical treatment of inguinal hernia?] Gauperaa T, et al.
Tidsskr Nor Laegeforen 1996 Sep 30;116(23):2772–3 (Eng. Abstr.) **(Nor)**

[The recurrence frequency in inguinal hernia. A 10-year survival material] Schjøth-Iversen L, et al.
Tidsskr Nor Laegeforen 1996 Sep 30;116(23):2774–5 (Eng. Abstr.) **(Nor)**

[Inguinal hernia repair with the Shouldice technique] e Silva NC, et al. **Rev Hosp Clin Fac Med Sao Paulo** 1995 Nov–Dec;50(6):314–6 (Eng. Abstr.) **(Por)**

[The treatment of inguinal hernias by the tension-free mesh-plug alloplastic technic] Andronescu P, et al.
Chirurgia (Bucur) 1997 Mar–Apr;92(2):109–13 (Eng. Abstr.) **(Rum)**

[A comparative study of the laparoscopic and classic treatments of inguinal hernias] Angelescu N, et al.
Chirurgia (Bucur) 1996 Sep–Oct;45(5):267–70 (Eng. Abstr.) **(Rum)**

[Monolateral hernioplasty by Trabucco's procedure in inguinal hernia] Sârbu V, et al. **Chirurgia (Bucur)** 1996; 45(1):41–4 (Eng. Abstr.) **(Rum)**

[Treatment of large recurrent strangulated inguino-scrotal hernias] Antonov AM, et al. **Khirurgiia (Mosk)** 1996;(2):67 (Eng. Abstr.) **(Rus)**

[Laparoscopic treatment of inguinal hernia] Lutsevich OE, et al. **Khirurgiia (Mosk)** 1997;(1):61–2 **(Rus)**

[Choice of method for laparoscopic hernioplasty] Timoshin AD, et al. **Khirurgiia (Mosk)** 1997;(2):84–7 (41 ref.) **(Rus)**

[A combination of a strangulated hernia of the bladder and a strangulated recurrent inguinal hernia] Kadyshev IuG, et al. **Klin Khir** 1995;(2):50 **(Rus)**

[Simultaneous strangulation of a fallopian tube and the appendix in an inguinal hernia] Kolesnik AV, et al.
Klin Khir 1995;(2):52 **(Rus)**

[A method for the deep plastic repair of the inguinal canal without separating the hernial sac and the spermatic cord] Zhebroskiĭ VV, et al. **Klin Khir** 1995;(2):43–4 **(Rus)**

[The structure of the transverse fascia and methods for the surgical reinforcement of the hernial hiatus in inguinal hernias] Bol'shakov OP, et al. **Vestn Khir Im I I Grek** 1996; (1):101–4 (78 ref.) **(Rus)**

[Operations in inguinal hernia from the preperitoneal approach with explant prosthesis of the abdominal wall] Sedov VM, et al. **Vestn Khir Im I I Grek** 1996;155(2):33–4 (Eng. Abstr.) **(Rus)**

[Deep multilayer plastic repair in inguinal hernias] Sedov VM, et al. **Vestn Khir Im I I Grek** 1997;156(1):101–2 (Eng. Abstr.) **(Rus)**

[The advantages of laparoscopic inguinal herniorrhaphy in children] Shcheben'kov MV. **Vestn Khir Im I I Grek** 1997; 156(1):94–6 (Eng. Abstr.) **(Rus)**

[Preperitoneal plastic repair of the anterior abdominal wall in inguinal hernias] Tarbaev SD, et al.
Vestn Khir Im I I Grek 1996;155(4):101–3 (41 ref.) **(Rus)**

[Adequacy of hospital admissions and stays of patients with uncomplicated inguinal hernia] Ruiz-Lapuente MA, et al. **Med Clin (Barc)** 1997 Feb 22;108(7):259–62 (Eng. Abstr.) **(Spa)**

[Efficacy of the ilioinguinal and iliohypogastric block in the treatment of the postoperative pain of inguinal herniorrhaphy] Abad-Torrent A, et al.
Rev Esp Anestesiol Reanim 1996 Nov;43(9):318–20 (Eng. Abstr.) **(Spa)**

[Ambulatory surgery for inguinal hernia. Patients' experiences with simplified routines] Gunnarsson U, et al. **Lakartidningen** 1997 Apr 2;94(14):1292–4, 1296 **(Swe)**

[Gangrenous appendicitis in a patient with internal strangulated hernia] Grishchuk IaI, et al. **Klin Khir** 1996; (6):52 **(Ukr)**

THERAPY

Balloon dissection of the space of Bogros via the femoral canal for total extraperitoneal laparoscopic herniorrhaphy. Read RC, et al. **Surg Endosc** 1997 Jun;11(6):687–92

ULTRASONOGRAPHY

US evaluation of inguinoscrotal bladder hernias: report of three cases. Catalano O. **Clin Imaging** 1997 Mar–Apr; 21(2):126–8

Scrotal cystocele associated with bladder cancer diagnosed by ultrasonography. Yağci C, et al. **J Ultrasound Med** 1996 Nov;15(11):793–5

Swollen, painful scrotum after basketball injury. Swischuk LE. **Pediatr Emerg Care** 1997 Jun;13(3):227–8

Inguinal hernia in children: US versus exploratory surgery and intraoperative contralateral laparoscopy. Chou TY, et al. **Radiology** 1996 Nov;201(2):385–8

Round ligament varices in pregnancy mimicking inguinal hernia: an ultrasound diagnosis. Cheng D, et al.
Ultrasound Obstet Gynecol 1997 Mar;9(3):198–9

Fetal inguinoscrotal hernia: prenatal ultrasound diagnosis and pathogenetic evaluation. Paladini D, et al.
Ultrasound Obstet Gynecol 1996 Feb;7(2):145–6

VETERINARY

A possible association between acquired nontraumatic inguinal and perineal hernia in adult male dogs. Shahar R, et al. **Can Vet J** 1996 Oct;37(10):614–6

HERNIA, OBTURATOR

[Obturator hernia] Gürlich R, et al. **Rozhl Chir** 1996 Jun; 75(6):307–9 (9 ref.) (Eng. Abstr.) **(Cze)**

COMPLICATIONS

An unusual cause of small bowel obstruction: strangulated obturator hernia [letter] Yan JC, et al.
Am J Emerg Med 1997 Jan;15(1):96–7

[Strangulated obturator hernia: diagnosis by x-ray computed tomography and treatment by coelioscopy (letter)] Sfairi A, et al. **Gastroenterol Clin Biol** 1996;20(11):1031–2 **(Fre)**

[Strangulated obturator hernia. Preoperative diagnosis] Lesurtel M, et al. **J Chir (Paris)** 1996 Sep;133(6):281–3 (Eng. Abstr.) **(Fre)**

DIAGNOSIS

Obturator hernia is an unsuspected diagnosis. Naude G, et al. **Am J Surg** 1997 Jul;174(1):72–5

[Strangulated obturator hernia. Preoperative diagnosis] Lesurtel M, et al. **J Chir (Paris)** 1996 Sep;133(6):281–3 (Eng. Abstr.) **(Fre)**

[Obturator hernia. Clinical principles and integrated classifications] Gallese N. **Minerva Chir** 1996 Dec; 51(12):1121–4 (Eng. Abstr.) **(Ita)**

RADIOGRAPHY

Obturator hernia diagnosed by computed tomography. Chu CW, et al. **Aust N Z J Surg** 1997 Oct;67(10):737–8

[Strangulated obturator hernia. Contribution of abdominal x-ray computed tomography] Farthouat P, et al.
J Chir (Paris) 1996 Sep;133(6):284–6 (Eng. Abstr.) **(Fre)**

SURGERY

A simple technique for obturator hernia repair. Falco E, et al. **Eur J Surg** 1997 Apr;163(4):305–6

Obturator hernia revisited: a review of 12 cases in 7 years. Chung CC, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):82–4

Extraperitoneal prosthetic mesh for repair of pelvic hernias [letter; comment] Losanoff JE, et al. **Surgery** 1997 Jan; 121(1):113–4. Comment on: Surgery 1996 Feb;119(2):133–6.

[A strangulated hernia of the obturator foramen] Marchuk IK, et al. **Klin Khir** 1995;(2):49 **(Ukr)**

THERAPY

Obturator herniation of the ureter in a renal transplant recipient causing hydronephrosis: perioperative percutaneous management. Weingarten KE, et al.
J Vasc Interv Radiol 1996 Nov–Dec;7(6):939–41

ULTRASONOGRAPHY

Preoperative diagnosis of strangulated obturator hernia using ultrasonography. Yokoyama T, et al. **Am J Surg** 1997 Jul; 174(1):76–8

HERNIA, PARAESOPHAGEAL see **HERNIA, HIATAL**

HERNIA, UMBILICAL

see related
BECKWITH-WIEDEMANN SYNDROME

Pseudodiastrophic dysplasia type Burgio in a newborn. Fischetto R, et al. **Am J Med Genet** 1997 Aug 8;71(2):222–5

Cantrell's pentalogy. Report of four cases and their management. Fernández MS, et al. **Pediatr Surg Int** 1997 Jul;12(5–6):428–31 (20 ref.)

Gastroschisis and omphalocele. Langer JC.
Semin Pediatr Surg 1996 May;5(2):124–8 (53 ref.)

BLOOD

Maternal serum alpha-fetoprotein in fetal neural tube and abdominal wall defects at 10 to 14 weeks of gestation. Sebire NJ, et al. **Br J Obstet Gynaecol** 1997 Jul; 104(7):849–51

COMPLICATIONS

Radiological case of the month. Incarcerated umbilical hernia. Simon HK. **Arch Pediatr Adolesc Med** 1997 May;

151(5):519–20

Laparoscopic cholecystectomy and the umbilicus. Nassar AH, et al. **Br J Surg** 1997 May;84(5):630–3

Absence of the inferior vena cava in a patient with omphalocele: two–dimensional echocardiographic and cineangiographic findings. Mori K, et al. **Heart Vessels** 1996;11(2):104–9

Richter's para–umbilical hernia presenting as faecal fistula. Ashraf SM, et al. **J Indian Med Assoc** 1995 Oct;93(10):404

Respiratory insufficiency at birth: a predictor of mortality for infants with omphalocele. Tsakayannis DE, et al. **J Pediatr Surg** 1996 Aug;31(8):1088–90; discussion 1090–1

DIAGNOSIS

Perinatal features of omphalocele–exstrophy–imperforate anus–spinal defects (OEIS complex) associated with large meningomyeloceles and severe limb defects. Chen CP, et al. **Am J Perinatol** 1997 May;14(5):275–9

Hemangioma of the umbilical cord mimicking an omphalocele. Miller KA, et al. **J Pediatr Surg** 1997 Jun; 32(6):810–2

First–trimester sonography of physiological midgut herniation and early diagnosis of omphalocele. van Zalen–Sprock RM, et al. **Prenat Diagn** 1997 Jun;17(6):511–8

[Herniolaparoscopy] Medzhidov RT, et al. **Vestn Khir Im I I Grek** 1997;156(2):107 **(Rus)**

EPIDEMIOLOGY

Are omphalocele and neural tube defects related congenital anomalies?: Data from 21 registries in Europe (EUROCAT). Calzolari E, et al. **Am J Med Genet** 1997 Oct 3;72(1):79–84

Incarcerated umbilical hernia in children. Vrsansky P, et al. **Pediatr Surg Int** 1997;12(1):61–2

ETIOLOGY

Hernias in trocar ports following abdominal laparoscopy. A review. Lajer H, et al. **Acta Obstet Gynecol Scand** 1997 May;76(5):389–93 (33 ref.)

[Incisional hernia after surgical laparoscopy: a case of hepatic ligament incarceration and review of the literature] Deval B, et al. **Contracept Fertil Sex** 1997 Jan;25(1):66–8 (14 ref.) (Eng. Abstr.) **(Fre)**

GENETICS

Diaphragmatic hernia–exomphalos–hypertelorism syndrome: a new case and further evidence of autosomal recessive inheritance. Gripp KW, et al. **Am J Med Genet** 1997 Feb 11;68(4):441–4

Caudal developmental field defect with female pseudohermaphroditism and VACTERL anomalies. Lukusa T, et al. **Genet Couns** 1996;7(3):207–12

Partial duplication of 3q and distal deletion of 11q in a stillbirth with an omphalocele containing the liver, short limbs, and intrauterine growth retardation. Chen CP, et al. **J Med Genet** 1996 Jul;33(7):615–7

Chromosomal anomalies in newborns with omphalocele. St–Vil D, et al. **J Pediatr Surg** 1996 Jun;31(6):831–4

Monosomy X and omphalocele [letter] Govaerts LC, et al. **Prenat Diagn** 1997 Mar;17(3):282

MORTALITY

Improved survival of infants with omphalocele. Dunn JC, et al. **Am J Surg** 1997 Apr;173(4):284–7

Chromosomal anomalies in newborns with omphalocele. St–Vil D, et al. **J Pediatr Surg** 1996 Jun;31(6):831–4

PATHOLOGY

Omphalocele in Miller–Dieker syndrome: expanding the phenotype. Chitayat D, et al. **Am J Med Genet** 1997 Mar 31;69(3):293–8

RADIOGRAPHY

Radiological case of the month. Incarcerated umbilical hernia. Simon HK. **Arch Pediatr Adolesc Med** 1997 May; 151(5):519–20

SURGERY

Anaesthetic considerations in exomphalos repair: a report of 2 cases. Amata AO. **Afr J Med Med Sci** 1995 Dec; 24(4):403–6

Improved survival of infants with omphalocele. Dunn JC, et al. **Am J Surg** 1997 Apr;173(4):284–7

The rectus sheath block--well worth remembering [letter] [see comments] Muir J, et al. **Anaesthesia** 1996 Sep; 51(9):893–4. Comment in: Anaesthesia 1997 Mar;52(3):287.

Hernia repair in elderly patients. Gianetta E, et al. **Br J Surg** 1997 Jul;84(7):983–5

Antibiotic prophylaxis in umbilical and incisional hernia repair: a prospective randomised study. Abramov D, et al. **Eur J Surg** 1996 Dec;162(12):945–8; discussion 949

Postoperative analgesia and intraoperative inhalational anesthetic requirements during umbilical herniorrhaphy in children: postincisional local infiltration versus preincisional caudal epidural block. Tobias JD. **J Clin Anesth** 1996 Dec;8(8):634–8

Use of Doppler ultrasonography in the evaluation of liver blood flow during silo reduction of a giant omphalocele. Skarsgard ED, et al. **J Pediatr Surg** 1997 May;32(5):733–5

Para–umbilical block: a new concept for regional anaesthesia in children. Courreges P, et al. **Paediatr Anaesth** 1997; 7(3):211–4

Skin grafting on liver [letter] Hosokawa K, et al. **Plast Reconstr Surg** 1997 Feb;99(2):589–90

[Prosthesis and emergency surgery of hernia] Gavioli M, et al. **J Chir (Paris)** 1996 Nov;133(7):317–9 (Eng. Abstr.) **(Fre)**

[Laparoscopic fascia closure with the Carter–Thomason instruments] Thevissen P, et al. **Chirurg** 1996 Jul; 67(7):757–9 (Eng. Abstr.) **(Ger)**

[Primary abdominal parietorrhaphy and the cure of eventrations with the relon monofilament suture (N.I. 2402/76)] Constantinoiu S, et al. **Chirurgia (Bucur)** 1997 Mar–Apr;92(2):115–9 (Eng. Abstr.) **(Rum)**

[Herniolaparoscopy] Medzhidov RT, et al. **Vestn Khir Im I I Grek** 1997;156(2):107 **(Rus)**

THERAPY

Management of giant omphalocele by progressive external compression: case report. Belloli G, et al. **J Pediatr Surg** 1996 Dec;31(12):1719–20

External compression as initial management of giant omphaloceles. DeLuca FG, et al. **J Pediatr Surg** 1996 Jul; 31(7):965–7

ULTRASONOGRAPHY

Prenatal diagnosis and perinatal aspects of abdominal wall defects. Chen CP, et al. **Am J Perinatol** 1996 Aug; 13(6):355–61

Prenatal diagnosis of fetal abdominal wall defects: a retrospective analysis of 44 cases. Heydanus R, et al. **Prenat Diagn** 1996 May;16(5):411–7

HERNIA, VENTRAL

Hernia today. Rowley P. **Br J Hosp Med** 1997 May 7–20; 57(9):471

Absence of hernia after removal of Gore–Tex [letter; comment] Halls MJ. **Plast Reconstr Surg** 1997 Jan;99(1):270 . Comment on: Plast Reconstr Surg 1996 Jun;97(7):1436–40; discussion 1441–2.

[Method of laparoscopy in ventral hernia] Medzhidov RT, et al. **Khirurgiia (Mosk)** 1996;(2):111–2 (Eng. Abstr.) **(Rus)**

CLASSIFICATION

Autopenetrating hernia: a novel form of traumatic abdominal wall hernia—case report and review of the literature. Ganchi PA, et al. **J Trauma** 1996 Dec;41(6):1064–6 (31 ref.)

COMPLICATIONS

Abdominal wall hernia in autosomal dominant polycystic kidney disease. Morris–Stiff G, et al. **Br J Surg** 1997 May; 84(5):615–7

Congenital spigelian hernia with cryptorchidism. Silberstein PA, et al. **J Pediatr Surg** 1996 Sep;31(9):1208–10

The effect of gestational age at birth on morbidity in patients with gastroschisis. Simmons M, et al. **J Pediatr Surg** 1996 Aug;31(8):1060–1; discussion 1062

[Left internal paraduodenal hernia. Apropos of a new case (letter)] Medarhri J, et al. **J Chir (Paris)** 1996; 133(9–10):462–5 (Eng. Abstr.) **(Fre)**

[Acute intestinal obstruction caused by strangulated hernia] Lupal'tsev VI, et al. **Klin Khir** 1996;(8):3–5 **(Rus)**

CONGENITAL

Gastroschisis increases small bowel nitric oxide synthase activity. Bealer JF, et al. **J Pediatr Surg** 1996 Aug; 31(8):1043–5; discussion 1045–6

Congenital spigelian hernia with cryptorchidism. Silberstein PA, et al. **J Pediatr Surg** 1996 Sep;31(9):1208–10

The effect of gestational age at birth on morbidity in patients with gastroschisis. Simmons M, et al. **J Pediatr Surg** 1996 Aug;31(8):1060–1; discussion 1062

DIAGNOSIS

Abdominal wall hernias. Mensching JJ, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):739–56 (54 ref.)

[Endometriosis of a postoperative cicatrix simulating an abdominal hernia] Ganzhii VV, et al. **Klin Khir** 1995; (1):48–9 **(Rus)**

[Herniolaparoscopy] Medzhidov RT, et al. **Vestn Khir Im I I Grek** 1997;156(2):107 **(Rus)**

EMBRYOLOGY

Clinical significance of prenatal ultrasonographic intestinal dilatation in fetuses with gastroschisis. Alsulyman OM, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):982–4

ENZYMOLOGY

Gastroschisis increases small bowel nitric oxide synthase activity. Bealer JF, et al. **J Pediatr Surg** 1996 Aug; 31(8):1043–5; discussion 1045–6

EPIDEMIOLOGY

The low transverse Pfannenstiel incision and the prevalence of incisional hernia and nerve entrapment. Luijendijk RW, et al. **Ann Surg** 1997 Apr;225(4):365–9

Recurrence after incisional hernia repair: results and risk factors. Geçim IE, et al. **Surg Today** 1996;26(8):607–9

ETIOLOGY

Continuous ambulatory peritoneal dialysis complicating with abdominal hernias in children. Tsai TC, et al. **Acta Paediatr Sin** 1996 Jul–Aug;37(4):263–5

Abdominal wall hernias with abdominal aortic aneurysmal versus aortoiliac occlusive disease [letter; comment] La Morte WW, et al. **Am J Surg** 1997 May;173(5):457–8. Comment on: Am J Surg 1995 Dec;170(6):572–5; discussion 575–6.

Sigmoid intra–abdominal herniation and volvulus: a rare complication of percutaneous endoscopic gastrostomy tubes. Walker KG, et al. **Br J Surg** 1997 Feb;84(2):221

Overweight and healing of midline incisions: the importance of suture technique. Israelsson LA, et al. **Eur J Surg** 1997 Mar;163(3):175–80

Incisional hernia via a lateral 5 mm trocar port following laparoscopic cholecystectomy [letter] Matter I, et al. **Isr J Med Sci** 1996 Sep;32(9):790–1

Incisional hernia in a 5–mm trocar site following pediatric laparoscopy. Waldhaussen JH. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S89–90

Incisional hernia after laparoscopic nephrectomy with intact specimen removal: caveat emptor. Elashry OM, et al. **J Urol** 1997 Aug;158(2):363–9

Incisional hernia after suprapubic catheterization. Lobel RW, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):844–6

Abdominal hernias after breast reconstruction [letter] Drever JM. **Plast Reconstr Surg** 1997 Aug;100(2):551

Drain site evisceration of the appendix: report of a case. Duraker N, et al. **Surg Today** 1997;27(7):651–2

Internal hernia and volvulus of the small bowel following liver transplantation. Khanna A, et al. **Transpl Int** 1997; 10(2):133–6

Ruptured incisional hernia. Singla SL, et al. **Trop Doct** 1997 Apr;27(2):112–3

[Development and pathophysiology of abdominal wall defects] Klinge U, et al. **Chirurg** 1997 Apr;68(4):293–303 (26 ref.) (Eng. Abstr.) **(Ger)**

[Wound rupture--incisional hernia] Hohlbach G, et al. **Zentralbl Chir** 1997;122(3):190–2 (22 ref.) (Eng. Abstr.) **(Ger)**

[Laparocele after laparoscopic surgery] Di Vita G, et al. **Minerva Chir** 1997 May;52(5):523–6 (28 ref.) (Eng. Abstr.) **(Ita)**

[Traumatic lumbar hernia of the Petit's triangle. A clinical case] Rosato L, et al. **Minerva Chir** 1996 Dec;51(12):1125–7 (Eng. Abstr.) **(Ita)**

HISTORY

[Medical–historical contribution to the literature on a rare developmental anomaly of the abdominal wall (letter; comment)] Kiss L. **Orv Hetil** 1997 Aug 24;138(34):2157. Comment on: Orv Hetil 1997 Apr 13;931–7. **(Hun)**

METABOLISM

Enterocytic gene expression is altered in experimental gastroschisis. Srinathan SK, et al. **J Surg Res** 1997 Feb 15;68(1):1–6

PATHOLOGY

Pathologic and clinical aspects of repair of large incisional hernias after implant of a polytetrafluoroethylene prosthesis. Bellón JM, et al. **World J Surg** 1997 May; 21(4):402–6; discussion 406–7

PHYSIOPATHOLOGY

Abdominal wall hernias. Mensching JJ, et al. **Emerg Med Clin North Am** 1996 Nov;14(4):739–56 (54 ref.)

PREVENTION & CONTROL

Modified Boerema technique for the closure of congenital abdominal wall defects to prevent incisional herniation and infection. Yamataka A, et al. **J Pediatr Surg** 1997 May; 32(5):708–9

Closure of trocar wounds using a suture carrier. Li P, et al. **Surg Laparosc Endosc** 1996 Dec;6(6):469–71

RADIOGRAPHY

Images in clinical medicine. Spigelian hernia. Campos SM, et al. **N Engl J Med** 1997 Apr 17;336(16):1149

[Imaging of abdominal wall eventration: role and value of x–ray computed tomography] Grolleau JL, et al. **Ann Chir** 1997;51(4):327–32 (Eng. Abstr.) **(Fre)**

[Well vascularized, abdominal tumor in childhood? A CT diagnosis! Type I malrotation] Krämer S, et al. **Radiologe** 1997 Feb;37(2):177–9 **(Ger)**

[Complicated Spigelian hernia: computerized tomography features. Report of 2 cases] Bergonzi M, et al. **Radiol Med (Torino)** 1996 Dec;92(6):822–3 **(Ita)**

[A case of internal supravesical hernia] Yamaguchi R, et al. **Nippon Geka Gakkai Zasshi** 1996 Nov;97(11):1024–6 (Eng. Abstr.) **(Jpn)**

[Casual diagnosis of hernias of Spiegel by an opaque enema (letter)] Gimeno Solsona F, et al. **Rev Esp Enferm Dig** 1996 Sep;88(9):643–4 **(Spa)**

RADIONUCLIDE IMAGING

Tc-99m DTPA accumulation in intestinal contents of an incisional lumbar hernia. Prakash R. **Clin Nucl Med** 1996 Apr;21(4):342-3

SURGERY

Expanded polytetrafluoroethylene patches used in the intraperitoneal or extraperitoneal position for repair of incisional hernias of the anterolateral abdominal wall. Gillion JF, et al. **Am J Surg** 1997 Jul;174(1):16-9

Retrorectus prosthetic mesh repair of midline abdominal hernia. McLanahan D, et al. **Am J Surg** 1997 May; 173(5):445-9

Prevention of adhesions by Seprafilm, an absorbable adhesion barrier: an incisional hernia model in rats. Alponat A, et al. **Am Surg** 1997 Sep;63(9):818-9

Giant incisional hernia: staged repair using pneumoperitoneum and expanded polytetrafluoroethylene. Bebawi MA, et al. **Am Surg** 1997 May;63(5):375-81

Laparoscopic ventral hernia repair: a community hospital experience [letter; comment] Smoot RT Jr, et al. **Am Surg** 1997 May;63(5):464-6. Comment on: Am Surg 1996 May;62(5):331-5. Comment on: Am Surg 1996 May;62(5):336-8.

Grynfelt hernia. Alves A Jr, et al. **Arq Gastroenterol** 1996 Jan-Mar;33(1):32-5

Endoscopic harvest of the tensor fasciae latae muscle flap. Onishi K, et al. **Br J Plast Surg** 1997 Jan;50(1):58-60

Prerectal peritoneal pouch with herniating small bowel -- a unique cause of severe constipation in a child. Wester T, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):50-1

Antibiotic prophylaxis in umbilical and incisional hernia repair: a prospective randomised study. Abramov D, et al. **Eur J Surg** 1996 Dec;162(12):945-8; discussion 949

Repair of large, multiple, and recurrent ventral hernias: an analysis of 124 cases. Bang RL, et al. **Eur J Surg** 1997 Feb;163(2):107-14

Repair of incisional hernias with expanded polytetrafluoroethylene. Koller R, et al. **Eur J Surg** 1997 Apr;163(4):261-6

Risk factors of surgical wound infection in patients undergoing herniorrhaphy. Medina M, et al. **Eur J Surg** 1997 Mar;163(3):191-8

Laparoscopic repair of bowel herniation through previous cannula insertion sites. Chang FH, et al. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4):489-92

Reduction of an incisional hernia using the open laparoscopic technique. Yuval L, et al. **J Am Assoc Gynecol Laparosc** 1995 Aug;2(4):487-8

In vivo characterization of a fluoropassivated gelatin-impregnated polyester mesh for hernia repair. Soares BM, et al. **J Biomed Mater Res** 1996 Nov; 32(3):293-305

In vitro characterization of a fluoropassivated gelatin-impregnated polyester mesh for hernia repair. Soares BM, et al. **J Biomed Mater Res** 1996 Oct; 32(2):259-70

Laparoscopic repair of a traumatic lumbar hernia: a case report. Burick AJ, et al. **J Laparoendosc Surg** 1996 Aug; 6(4):259-62

Iatrogenic "respiratory acidosis" during laparoscopic preperitoneal hernia repair. Waisbren SJ, et al. **J Laparoendosc Surg** 1996 Jun;6(3):181-3

Autopenetrating hernia: a novel form of traumatic abdominal wall hernia--case report and review of the literature. Ganchi PA, et al. **J Trauma** 1996 Dec;41(6):1064-6 (31 ref.)

Recurrence of abdominal wall hernias due to failure of mesh repair in a peritoneal dialysis patient. Abraham G, et al. **Perit Dial Int** 1997 Jan-Feb;17(1):89-91

Massive abdominal-wall hernia reconstruction with expanded external/internal oblique and transversalis musculofascia. Jacobsen WM, et al. **Plast Reconstr Surg** 1997 Aug;100(2):326-35

A new approach for the treatment of recurrent large abdominal hernias: the overlap flap. Sensöz O, et al. **Plast Reconstr Surg** 1997 Jun;99(7):2074-8

Videoscopically assisted fascia lata harvest for the correction of recurrent ventral hernia. Tucker JG, et al. **South Med J** 1997 Apr;90(4):399-401

Laparoscopic repair of paraumbilical ventral hernia with increasing size in an obese patient. Hashizume M, et al. **Surg Endosc** 1996 Sep;10(9):933-5

Laparoscopic ventral and incisional hernioplasty. Holzman MD, et al. **Surg Endosc** 1997 Jan;11(1):32-5

Repair of complex giant or recurrent ventral hernias by using tension-free intraparietal prosthetic mesh (Stoppa technique): lessons learned from our initial experience (fifty patients). Temudom T, et al. **Surgery** 1996 Oct; 120(4):738-43; discussion 743-4

Incisional hernia recurrence following "vest-over-pants" or vertical Mayo repair of primary hernias of the midline. Luijendijk RW, et al. **World J Surg** 1997 Jan;21(1):62-5; discussion 66

[Hernia operations using synthetic materials] Kuthan D. **Rozhl Chir** 1996 Aug;75(8):394-7 (Eng. Abstr.) **(Cze)**

[Incisional hernia. A study of morbidity, mortality and bed utilization in a Danish county] Madsen SS, et al. **Ugeskr Laeger** 1996 Dec 30;159(1):49-51 (Eng. Abstr.) **(Dan)**

[Abdominal parietoscopy. Technique and indications. Preliminary results: 7 cases] Champault G. **Ann Chir** 1996; 50(6):445-8 (Eng. Abstr.) **(Fre)**

[Surgical cure of postoperative eventrations with intraperitoneal implantation of dacron mesh. Apropos of 160 operated cases] Bécouarn G, et al. **J Chir (Paris)** 1996 Jul;133(5):229-32 (Eng. Abstr.) **(Fre)**

[Value of fasciocutaneous tensor fasciae latae island flap in the treatment of large abdominal hernias. Apropos of a case] Guyon P, et al. **J Chir (Paris)** 1997 May;134(1):27-30 (Eng. Abstr.) **(Fre)**

[Treatment of postoperative abdominal eventrations with a resorbable prosthesis. Apropos of 160 cases] Horhant P, et al. **J Chir (Paris)** 1996 Nov;133(7):311-6 (Eng. Abstr.) **(Fre)**

[Incisional hernias] Eisner L, et al. **Chirurg** 1997 Apr; 68(4):304-9 (43 ref.) (Eng. Abstr.) **(Ger)**

[Tension-free suture of incisional hernia] Farthmann EH, et al. **Chirurg** 1997 Apr;68(4):310-6 (28 ref.) (Eng. Abstr.) **(Ger)**

[Reconstruction of scar hernias--intraoperative tensiometry for objective determination of procedure of choice] Klein P, et al. **Chirurg** 1996 Oct;67(10):1020-7 (Eng. Abstr.) **(Ger)**

[Results of occlusion of large or recurrent incisional hernias with polytetrafluoroethylene] Koller R, et al. **Chirurg** 1996 Feb;67(2):179-82 (Eng. Abstr.) **(Ger)**

[Preperitoneal mesh-plasty in incisional hernia repair. A comparative retrospective study of 272 operated incisional hernias] Schumpelick V, et al. **Chirurg** 1996 Oct; 67(10):1028-35 (Eng. Abstr.) **(Ger)**

[Laparoscopic fascia closure with the Carter-Thomason instruments] Thevissen P, et al. **Chirurg** 1996 Jul; 67(7):757-9 (Eng. Abstr.) **(Ger)**

[Our experience with Spigelio's hernia] Gesuelli GC, et al. **Ann Ital Chir** 1996 Jul-Aug;67(4):527-30; discussion 531 (19 ref.) (Eng. Abstr.) **(Ita)**

[H mesh prosthesis in the treatment of ventral hernia] Monti M, et al. **G Chir** 1996 Oct;17(10):543-6 (Eng. Abstr.) **(Ita)**

[Surgical anatomy, diagnosis and treatment of spigelian hernia] Rodighiero D, et al. **G Chir** 1996 Oct;17(10):485-7 (Eng. Abstr.) **(Ita)**

[A 3-year experience of the repair of voluminous abdominal laparoceles with patches of prosthetic material] Troiani F, et al. **G Chir** 1996 Nov-Dec;17(11-12):607-10 (Eng. Abstr.) **(Ita)**

[Plastic surgery of the abdominal wall in laparocele in a patient with previous kidney transplant] Cervelli V, et al. **Minerva Chir** 1997 Jun;52(6):817-21 (Eng. Abstr.) **(Ita)**

[The surgery of laparoceles. The postoperative complications] Garavello A, et al. **Minerva Chir** 1997 May; 52(5):557-63 (Eng. Abstr.) **(Ita)**

[General surgery after lung transplantation] Nano M, et al. **Minerva Chir** 1996 Jun;51(6):481-4 (Eng. Abstr.) **(Ita)**

[Traumatic lumbar hernia of the Petit's triangle. A clinical case] Rosato L, et al. **Minerva Chir** 1996 Dec;51(12):1125-7 (Eng. Abstr.) **(Ita)**

[Primary abdominal parietorrhaphy and the cure of eventrations with the relon monofilament suture (N.I. 2402/76)] Constantinoiu S, et al. **Chirurgia (Bucur)** 1997 Mar-Apr;92(2):115-9 (Eng. Abstr.) **(Rum)**

[Spigelian hernias. The authors' own experience and a review of the literature] Popovici A, et al. **Chirurgia (Bucur)** 1997 May-Jun;92(3):179-86 (12 ref.) (Eng. Abstr.) **(Rum)**

[A modified suture in the surgical treatment of middle ventral hernias] Stoliarov EA, et al. **Khirurgiia (Mosk)** 1996; (6):49-52 (Eng. Abstr.) **(Rus)**

[A malignant tumor of the ileum strangulated in a postoperative abdominal hernia] Stavitskiĭ VV. **Klin Khir** 1995;(2):45-6 **(Rus)**

[The use of simultaneous operations in treating strangulated hernia] Zhebrovskiĭ VV, et al. **Klin Khir** 1995;(2):36-8 **(Rus)**

[Herniolaparoscopy] Medzhidov RT, et al. **Vestn Khir Im I I Grek** 1997;156(2):107 **(Rus)**

[20 years' experience in treating postoperative ventral hernias] Zhebrovskiĭ VV, et al. **Vestn Khir Im I I Grek** 1996;155(2):105-8 **(Rus)**

[Personal experience with the Lichtenstein surgical method in recurrent abdominal hernia] Sokol R, et al. **Rozhl Chir** 1996 Aug;75(8):392-3 (Eng. Abstr.) **(Slo)**

[The successful treatment of a giant strangulated hernia with extensive intestinal necrosis] Bartosh AM, et al. **Klin Khir** 1995;(2):52-3 **(Ukr)**

[Repeat operations for recurrent hernia complicated by a fistula] Borovyĭ IeM, et al. **Klin Khir** 1995;(2):16-7 **(Ukr)**

ULTRASONOGRAPHY

Clinical significance of prenatal ultrasonographic intestinal dilatation in fetuses with gastroschisis. Alsulyman OM, et al. **Am J Obstet Gynecol** 1996 Oct;175(4 Pt 1):982-4

The usefulness of ultrasonography in the diagnosis of the Spigelian hernia. Torzilli G, et al. **Int Surg** 1995 Jul-Sep; 80(3):280-2

Incisional hernia of gallbladder in a patient with gallbladder carcinoma: sonographic demonstration. Shirahama M, et al. **J Clin Ultrasound** 1997 Sep;25(7):398-400

Spigelian hernia: diagnosis by high-resolution real-time sonography. Mufid MM, et al. **J Ultrasound Med** 1997 Mar; 16(3):183-7

Case of the day. Abdominal wall hernia containing bowel, with multiple fluid-filled segments of bowel mimicking complex cystic mass. Townsend R, et al. **J Ultrasound Med** 1997 Apr;16(4):307

[Strangulated intestinal Spigelian hernia] Coulier B, et al. **J Belge Radiol** 1997 Apr;80(2):68-70 (4 ref.) (Eng. Abstr.) **(Fre)**

VETERINARY

A possible association between acquired nontraumatic inguinal and perineal hernia in adult male dogs. Shahar R, et al. **Can Vet J** 1996 Oct;37(10):614-6

The sartorius muscle flap in the cat: an anatomic study and two case reports. Sylvestre AM, et al. **J Am Anim Hosp Assoc** 1997 Jan-Feb;33(1):91-6

What is your diagnosis? Herniation of the small intestine through the dorsal lumbar musculature, multiple pelvic fractures, sacroiliac subluxation, and a right craniodorsal coxofemoral luxation. Hawthorne JC, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):33-4

Commercial polyester fabric repair of abdominal hernias and defects. Shoukry M, et al. **Vet Rec** 1997 Jun 7;140(23):606-7

HEROIN see **DIACETYLMORPHINE**

HEROIN DEPENDENCE

Malignant hypertension presenting as blurred vision in a 43 year old intravenous drug abuser. Walters G, et al. **J Accid Emerg Med** 1997 May;14(3):182-3

Lay theories of heroin addiction. Furnham A, et al. **Soc Sci Med** 1996 Jul;43(1):29-40

BLOOD

Elevated serum-calcium and parathormone-levels in HIV afflicted female heroin addicts. Teichmann J, et al. **Eur J Med Res** 1997 Aug 28;2(8):343-6

Antibody-mediated clean-up of blood for simultaneous HPLC determination of morphine and morphine glucuronides. Beike J, et al. **Int J Legal Med** 1997; 110(4):226-9

COMPLICATIONS

Wound botulism associated with black tar heroin. Anderson MW, et al. **Acad Emerg Med** 1997 Aug;4(8):805-9

The substance-using human immunodeficiency virus patient: approaches to outpatient management. O'Connor PG, et al. **Am J Med** 1996 Oct;101(4):435-44 (59 ref.)

Necrotizing fasciitis: a cautionary tale [see comments] Freeman Z, et al. **Am J Nurs** 1997 Mar;97(3):34-6. Comment in: Am J Nurs 1997 Jul;97(7):17.

High fever and shaking chills in a heroin addict. Fred HL, et al. **Hosp Pract (Off Ed)** 1997 Mar 15;32(3):224, 226

Acute hematogenous osteomyelitis in intravenous drug users. Fox IM, et al. **J Foot Ankle Surg** 1997 Jul-Aug;36(4):301-5 (13 ref.)

Vascular complications following intravascular self-injection of addictive drugs. al Zahrani HA. **J R Coll Surg Edinb** 1997 Feb;42(1):50-3

Penicillium marneffei infection in a Swedish HIV-infected immunodeficient narcotic addict. Julander I, et al. **Scand J Infect Dis** 1997;29(3):320-2

[Cerebral infarctions in a drug addict inhaling heroin] Adle-Biassette H, et al. **Arch Anat Cytol Pathol** 1996; 44(1):12-7 (Eng. Abstr.) **(Fre)**

[Parsonage-Turner amyotrophic neuralgia in 2 heroin addicts (letter)] Wemeau J, et al. **Presse Med** 1997 Feb 15;26(4):165 **(Fre)**

[Periarteritis nodosa disclosed by epilepsy in a drug addict with hepatitis B and C virus carrier state] Débat Zoguéreh D, et al. **Rev Med Interne** 1997;18(4):311-5 (Eng. Abstr.) **(Fre)**

[Painful myoedema caused by rhabdomyolysis: a proposal of a new integrated therapeutic treatment] Bagnoli L, et al. **Recenti Prog Med** 1997 Feb;88(2):80-1 **(Ita)**

[Neurologic complications in heroin abuse. Illustrated by two unusual cases] Celius EG. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):356-7 (Eng. Abstr.) **(Nor)**

[Systemic candidiasis in heroin addicts: therapeutic considerations (letter; comment)] Márquez de Prado Urquia M, et al. **An Med Interna** 1997 Mar;14(3):155-6. Comment on: An Med Interna 1994 Nov;11(11):537-40. **(Spa)**

[Pneumonia caused by Pneumocystis carinii in a drug addict without evidence of HIV infection (letter)] Calderón E, et al. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):505 **(Spa)**

DIAGNOSIS

Physician unawareness of serious substance abuse. Saitz R, et al. **Am J Drug Alcohol Abuse** 1997 Aug;23(3):343-54

Quantitative electroencephalographic differences associated with alcohol, cocaine, heroin and dual-substance dependence. Costa L, et al. **Drug Alcohol Depend** 1997 Jun 6;46(1-2):87-93

Concentrations of delta 9-tetrahydrocannabinol, cocaine and 6-monoacetylmorphine in hair of drug abusers. Kauert G, et al. **Int J Legal Med** 1996;108(6):294-9

[Descriptive studies of the use of the Addiction Severity Index in France] Martin C, et al. **Encephale** 1996 Sep-Oct; 22(5):359-63 (Eng. Abstr.) **(Fre)**

HEROIN DEPENDENCE

DRUG THERAPY

Three methods of opioid detoxification in a primary care setting. A randomized trial. O'Connor PG, et al. **Ann Intern Med** 1997 Oct 1;127(7):526–30

Dose-related efficacy of levomethadyl acetate for treatment of opioid dependence. A randomized clinical trial. Eissenberg T, et al. **JAMA** 1997 Jun 25;277(24):1945–51

Hostility in heroin abusers subtypes: fluoxetine and naltrexone treatment. Gerra G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1225–37

[Anticipated effects of experimental heroin prescription on the method of administration and the use of other drugs] Benschop A, et al. **Ned Tijdschr Geneeskd** 1997 Feb 8; 141(6):292–5 (Eng. Abstr.) **(Dut)**

[One year follow-up of methadone maintenance patients] Facy F. **Rev Epidemiol Sante Publique** 1997 Jun;45(3):260–1 **(Fre)**

[The effect of discontinuing intravenous opiate injections and methadone treatment on the status of the immune system in narcotic abusers with HIV] Radkowski M, et al. **Pol Tyg Lek** 1996 Jun;51(23–26):334–5, 339 (Eng. Abstr.) **(Pol)**

ECONOMICS

Treatment as harm reduction, defunding as harm maximization: the case of methadone maintenance. Rosenbaum M, et al. **J Psychoactive Drugs** 1996 Jul–Sep; 28(3):241–9 (21 ref.)

EPIDEMIOLOGY

Risk factors for initiation of drug use among young males in southwest China. Wu Z, et al. **Addiction** 1996 Nov; 91(11):1675–85

Factors associated with client-reported HIV infection among clients entering methadone treatment. MacGowan RJ, et al. **AIDS Educ Prev** 1997 Jun;9(3):205–17

HIV infection risks, behaviors and methadone treatment: client-reported HIV infection in a follow-up study of injecting drug users in New England. Brackbill RM, et al. **Am J Drug Alcohol Abuse** 1997 Aug;23(3):397–411

Patterns and predictors of cocaine and crack use by clients in standard and enhanced methadone maintenance treatment. Grella CE, et al. **Am J Drug Alcohol Abuse** 1997 Feb;23(1):15–42

Drugs in East Germany. Dressler J, et al. **Am J Forensic Med Pathol** 1997 Sep;18(3):303–5 (14 ref.)

Temporal and geographic variations in the characteristics of heroin seized in Spain and their relation with the route of administration. Spanish Group for the Study of the Purity of Seized Drugs. de la Fuente L, et al. **Drug Alcohol Depend** 1996 Mar;40(3):185–94

Drug use in Nepal: the view from the street. Jutkowitz JM, et al. **Subst Use Misuse** 1997 Jun;32(7–8):987–1004

Marijuana and heroin use in Hong Kong Adolescents. Tang CS, et al. **Subst Use Misuse** 1996 Jan;31(1):115–25

[Increasing use of heroine and cocaine in Switzerland since 1990: use of a generalized Poisson distribution in the collected data] Knolle H. **Soz Praventivmed** 1997; 42(2):105–13 (Eng. Abstr.) **(Ger)**

[Is the habit of smoking crack becoming widespread in Spain among heroin users? (letter)] Barrio Anta G, et al. **Med Clin (Barc)** 1997 Apr 5;108(13):517–8 **(Spa)**

ETIOLOGY

Relapse to heroin-seeking in rats under opioid maintenance: the effects of stress, heroin priming, and withdrawal. Shaham Y, et al. **J Neurosci** 1996 Mar 1;16(5):1957–63

HISTORY

The prepared mind: Marie Nyswander, methadone maintenance, and the metabolic theory of addiction. Courtwright DT. **Addiction** 1997 Mar;92(3):257–65

Heroin smoking by 'chasing the dragon': origins and history. Strang J, et al. **Addiction** 1997 Jun;92(6):673–83; discussion 685–95

Review of E. Preble and J. J. Casey, "Taking care of business—the heroin user's life on the street, " International Journal of the Addictions, 4: 1–24 (1969). Dembo R. **Subst Use Misuse** 1997 Jan;32(2):195–201

IMMUNOLOGY

[Opioid receptors and phagocyte defects in drug addicts] Mazzone A, et al. **Recenti Prog Med** 1996 Nov;87(11):530–7 (Eng. Abstr.) **(Ita)**

METABOLISM

Quantitative studies on liver fibrosis and alpha-smooth muscle actin expression in heroin abusers. de Araújo MS, et al. **Cell Mol Biol (Noisy-le-grand)** 1997 Jun;43(4):589–96

Decreased density of I2-imidazoline receptors in the postmortem brain of heroin addicts. Sastre M, et al. **Neuroreport** 1996 Jan 31;7(2):509–12

Effects of heroin on thyroid function, cortisol and testosterone level in addicts. Rasheed A, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):441–4

[Detection of nordiazepam in the hair of drug addicts] Vayssette F, et al. **Ann Pharm Fr** 1996;54(5):211–6 (Eng. Abstr.) **(Fre)**

MORTALITY

Death rates in treated and untreated heroin addicts [letter; comment] Gampel J. **Acta Psychiatr Scand** 1997 Feb; 95(2):166. Comment on: Acta Psychiatr Scand 1990 Sep;82(3):223–7.

Overdose among heroin users in Sydney, Australia: I. Prevalence and correlates of non-fatal overdose. Darke S, et al. **Addiction** 1996 Mar;91(3):405–11

Overdose among heroin users in Sydney, Australia: II. responses to overdose. Darke S, et al. **Addiction** 1996 Mar; 91(3):413–7

Fatal heroin 'overdose': a review. Darke S, et al. **Addiction** 1996 Dec;91(12):1765–72 (50 ref.)

The effectiveness and safety of methadone maintenance [letter] Ward J, et al. **Addiction** 1996 Nov;91(11):1727–9

Treatment of opiate dependent drug misusers. More people die from methadone misuse than from heroin misuse [letter] McCarthy JH. **BMJ** 1997 Sep 6;315(7108):603

A comparison of blood toxicology of heroin-related deaths and current heroin users in Sydney, Australia. Darke S, et al. **Drug Alcohol Depend** 1997 Jul 25;47(1):45–53

Heroin-related deaths in south-western Sydney [letter] Darke SG, et al. **Med J Aust** 1997 Jul 21;167(2):107

PATHOLOGY

Alteration of glutamyltranspeptidase binding proteins in postmortem brains of heroin addicts. Hashimoto E, et al. **Alcohol Clin Exp Res** 1996 Dec;20(9 Suppl):301A–304A

PHYSIOPATHOLOGY

Heroin dependence effects on some major and trace elements. Elnimr T, et al. **Biol Trace Elem Res** 1996 Aug;54(2):153–62

Electro-encephalography spectral analysis of heroin addicts compared with abstainers and normal controls. Shufman E, et al. **Isr J Psychiatry Relat Sci** 1996;33(3):196–206

PSYCHOLOGY

Transitions between routes of benzodiazepine administration among heroin users in Sydney. Ross J, et al. **Addiction** 1997 Jun;92(6):697–705

Within-session determination of dose-response curves for heroin self-administration in rats: Comparison with between-session determination and effects of naltrexone. Martin TJ, et al. **Drug Alcohol Depend** 1996 Jun; 41(2):93–100

Improving detoxification outcomes from methadone maintenance treatment: the interrelationship of affective states and protracted withdrawal. Latowsky M. **J Psychoactive Drugs** 1996 Jul–Sep;28(3):251–7 (58 ref.)

Personality characteristics of persons addicted to heroin. Narayan R, et al. **J Psychol** 1997 Jan;131(1):125–7

Pain perception of intravenous heroin users on maintenance therapy with levomethadone. Schall U, et al. **Pharmacopsychiatry** 1996 Sep;29(5):176–9

Sexually arousing events and relapse to heroin-seeking in sexually experienced male rats. Shaham Y, et al. **Physiol Behav** 1997 Feb;61(2):337–41

Hostility in heroin abusers subtypes: fluoxetine and naltrexone treatment. Gerra G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1995 Dec; 19(8):1225–37

Anger and drug addiction. De Mojá CA, et al. **Psychol Rep** 1997 Aug;81(1):152–4

Scores on locus of control and aggression for drug addicts, users, and controls. De Mojà CA. **Psychol Rep** 1997 Feb; 80(1):40–2

REHABILITATION

Multiple predictors of illicit drug use in methadone maintenance clients. Gollnisch G. **Addict Behav** 1997 May–Jun;22(3):353–66

Heroin addiction in Bahrain: 15 years experience. Abdel-Mawgoud M, et al. **Addiction** 1996 Dec; 91(12):1859–64

The Amsterdam methadone dispensing circuit: genesis and effectiveness of a public health model for local drug policy. Plomp HN, et al. **Addiction** 1996 May;91(5):711–21

Health status at entry to methadone maintenance treatment using the SF-36 health survey questionnaire. Ryan CF, et al. **Addiction** 1996 Jan;91(1):39–45

Pre-treatment characteristics, program philosophy and level of ancillary services as predictors of methadone maintenance treatment outcome. Saxon AJ, et al. **Addiction** 1996 Aug;91(8):1197–209

Non-prescribed drug use during methadone treatment by clinic- and community-based patients. Wolff K, et al. **Addiction** 1996 Nov;91(11):1699–704

The effect of anonymous vs. nonanonymous rating conditions on patient satisfaction and motivation ratings in a population of substance abuse patients. Leonhard C, et al. **Alcohol Clin Exp Res** 1997 Jun;21(4):627–30

Comparing Hatha yoga with dynamic group psychotherapy for enhancing methadone maintenance treatment: a randomized clinical trial. Shaffer HJ, et al. **Altern Ther Health Med** 1997 Jul;3(4):57–66

Effects of human immunodeficiency virus infection and detoxification time on anthropometric measurements and dietary intake of male drug addicts. Varela P, et al. **Am J Clin Nutr** 1997 Aug;66(2):509S–514S

Human immunodeficiency virus infection and nutritional status in female drug addicts undergoing detoxification: anthropometric and immunologic assessments. Varela P, et al. **Am J Clin Nutr** 1997 Aug;66(2):504S–508S

Rapid opiate detoxification. Bartter T, et al. **Am J Drug Alcohol Abuse** 1996 Nov;22(4):489–95

A pilot study of primary-care-based buprenorphine maintenance for heroin dependence. O'Connor PG, et al. **Am J Drug Alcohol Abuse** 1996 Nov;22(4):523–31

Opiate withdrawal with dextromethorphan [letter] Bisaga A, et al. **Am J Psychiatry** 1997 Apr;154(4):584

P300 assessment of opiate and cocaine users: effects of detoxification and buprenorphine treatment. Kouri EM, et al. **Biol Psychiatry** 1996 Oct 1;40(7):617–28

Sick doctors need special treatment [news] Wise J. **BMJ** 1996 Sep 28;313(7060):771

Randomised double-blind comparison of lofexidine and methadone in the in-patient treatment of opiate withdrawal. Bearn J, et al. **Drug Alcohol Depend** 1996 Dec 2;43(1–2):87–91

Smoking habits and attitudes in a methadone maintenance treatment population. Clemmey P, et al. **Drug Alcohol Depend** 1997 Mar 14;44(2–3):123–32

Prohibition of take-home dosages: negative consequences on methadone maintenance treatment. Pani PP, et al. **Drug Alcohol Depend** 1996 May;41(1):81–4

Increasing opiate abstinence through voucher-based reinforcement therapy. Silverman K, et al. **Drug Alcohol Depend** 1996 Jun;41(2):157–65

How constant is an individual's route of heroin administration? Data from treatment and non-treatment samples. Strang J, et al. **Drug Alcohol Depend** 1997 Jun 6;46(1–2):115–8

Processes of change assessment in heroin addicts following the Prochaska and DiClemente transtheoretical model. Tejero A, et al. **Drug Alcohol Depend** 1997 Jul 25;47(1):31–7

Retention in a low-threshold methadone maintenance program. Torrens M, et al. **Drug Alcohol Depend** 1996 May; 41(1):55–9

Treatment as harm reduction, defunding as harm maximization: the case of methadone maintenance. Rosenbaum M, et al. **J Psychoactive Drugs** 1996 Jul–Sep; 28(3):241–9 (21 ref.)

Influences of family and friends on client progress during drug abuse treatment. Knight DK, et al. **J Subst Abuse** 1996;8(4):417–29

What happens when a demonstration project ends. Consequences for a clinic and its clients. Grella CE, et al. **J Subst Abuse Treat** 1996 May–Jun;13(3):249–56

Prescribing drug of choice to illicit heroin users: the experience of a U.K. community drug team. McCusker C, et al. **J Subst Abuse Treat** 1996 Nov–Dec;13(6):521–31

Effects of gamma-hydroxybutyric acid (GHB) in opioid-dependent patients. Rosen MI, et al. **J Subst Abuse Treat** 1997 Mar–Apr;14(2):149–54

Cardiovascular parameters of heroin-withdrawn addicts treated with guanfacine. Rubio G, et al. **Methods Find Exp Clin Pharmacol** 1997 Apr;19(3):189–92

Methadone maintenance and addicts' risk of fatal heroin overdose. Caplehorn JR, et al. **Subst Use Misuse** 1996 Jan; 31(2):177–96

Measuring and comparing the attitudes and beliefs of staff working in New York methadone maintenance clinics. Caplehorn JR, et al. **Subst Use Misuse** 1997 Mar; 32(4):399–413

Reducing parental risk factors for children's substance misuse: preliminary outcomes with opiate-addicted parents. Catalano RF, et al. **Subst Use Misuse** 1997 May; 32(6):699–721

Abstinence fear in methadone maintenance withdrawal: a possible obstacle for getting off methadone. Eklund C, et al. **Subst Use Misuse** 1997 May;32(6):779–92

Heroin addicts in the community and in treatment compared for severity of problems and need for help. Eland-Goossensen A, et al. **Subst Use Misuse** 1997 Aug; 32(10):1313–30 (24 ref.)

HIV risk behaviors among women in methadone maintenance treatment. Grella CE, et al. **Subst Use Misuse** 1996 Feb; 31(3):277–301

[Drug withdrawal under anesthesia—an alternative to substitution therapy. Model project in a Bavarian district hospital (interview by Dr. rer. nat. Anita Schweiger)] Reiss J. **Fortschr Med** 1996 Aug 30;114(24):12–3 **(Ger)**

[Bilateral candida endophthalmitis in 2 i. v. drug-dependent patients with oral L-methadone substitution] Möller M, et al. **Klin Monatsbl Augenheilkd** 1997 Jul;211(1):53–6 (Eng. Abstr.) **(Ger)**

[Opiate withdrawal in anesthesia (forced narcotic withdrawal, "turbo withdrawal") in narcotic dependence. Changes in withdrawal treatment—wishes and reality] Dettling M, et al. **Nervenarzt** 1996 Sep;67(9):805–10 **(Ger)**

[Psychodynamic aspects of treatment of heroin dependent patients with methadone substitution] Scherbaum N, et al. **Psychother Psychosom Med Psychol** 1996 Feb;46(2):47–51 (Eng. Abstr.) **(Ger)**

[Treatment of drug dependent patients in general practice] Olgiati M, et al. **Ther Umsch** 1997 Jul;54(7):397–9 (Eng. Abstr.) **(Ger)**

[Pupillary diameter and pupillary reactions in heroin dependent patients and in patients participating in a methadone and morphine replacement program] Linzmayer L, et al. **Wien Med Wochenschr** 1997;147(3):67–9 (Eng.

Abstr.) (Ger)
[Possibilities and limits of drug substitution treatment in ambulatory practice] Siegel I. **Z Arztl Fortbild (Jena)** 1996 Jun;90(4):307–13 (11 ref.) (Eng. Abstr.) (Ger)

THERAPY

Cocaine use immediately prior to entry in an inpatient heroin detoxification unit as a predictor of discharges against medical advice. Pérez de los Cobos J, et al. **Am J Drug Alcohol Abuse** 1997 May;23(2):267–79
The substance–using human immunodeficiency virus patient: approaches to outpatient management. O'Connor PG, et al. **Am J Med** 1996 Oct;101(4):435–44 (59 ref.)
Specialists criticise treatment for heroin addiction [news] Mayor S. **BMJ** 1997 May 10;314(7091):1365
Improving detoxification outcomes from methadone maintenance treatment: the interrelationship of affective states and protracted withdrawal. Latowsky M. **J Psychoactive Drugs** 1996 Jul–Sep;28(3):251–7 (58 ref.)
Retention in methadone maintenance treatment programs, Connecticut and Massachusetts, 1990–1993. MacGowan RJ, et al. **J Psychoactive Drugs** 1996 Jul–Sep;28(3):259–65
[4–month follow–up of 198 heroin addicts by general practitioners] Charpak Y, et al. **Rev Epidemiol Sante Publique** 1997 Mar;45(1):13–22 (Eng. Abstr.) (Fre)

VIROLOGY

Prevalence of hepatitis B and C viruses infection in chronic alcoholics with or without liver disease in Ioannina, Greece: low incidence of HCV infection. Dalekos GN, et al. **Eur J Epidemiol** 1996 Feb;12(1):21–5

HERPANGINA VIRUS see **COXSACKIEVIRUSES A**

HERPES GENITALIS

Diagnosis and treatment of viral STDs in women. Baker DA. **Int J Fertil Womens Med** 1997 Mar–Apr;42(2):107–14 (38 ref.)
The acquisition of herpes simplex virus during pregnancy. Brown ZA, et al. **N Engl J Med** 1997 Aug 21;337(8):509–15
The Swedish telephone herpes helpline. Hallén A, et al. **Scand J Infect Dis Suppl** 1996;100:33–4

COMPLICATIONS

The relationship of human papillomavirus–related cervical tumors to cigarette smoking, oral contraceptive use, and prior herpes simplex virus type 2 infection. Daling JR, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Jul;5(7):541–8
Inoculation herpes simplex virus infections in patients with AIDS: unusual appearance and location of lesions. Weaver G, et al. **Clin Infect Dis** 1996 Jan;22(1):141–2
Adult–onset temporal lobe epilepsy associated with smoldering herpes simplex 2 infection. Cornford ME, et al. **Neurology** 1997 Feb;48(2):425–30
Severe genital herpes infections in HIV–infected individuals with impaired herpes simplex virus–specific CD8+ cytotoxic T lymphocyte responses. Posavad CM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10289–94
Psychological and psychosexual implications of herpes simplex virus infections. Mindel A. **Scand J Infect Dis Suppl** 1996;100:27–32 (53 ref.)
The causal role for genital ulcer disease as a risk factor for transmission of human immunodeficiency virus. An application of the Bradford Hill criteria. Dickerson MC, et al. **Sex Transm Dis** 1996 Sep–Oct;23(5):429–40 (42 ref.)

CONGENITAL

Acyclovir prophylaxis in late pregnancy to prevent neonatal herpes: a cost–effectiveness analysis. Randolph AG, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):603–10

DIAGNOSIS

Recurrent meningitis and encephalitis associated with herpes simplex type 2: demonstration by polymerase chain reaction. Monteyne P, et al. **Eur Neurol** 1996;36(3):176–7
Clear detection and typing of herpes simplex virus types 1 and 2 by an indirect ELISA assay: comparison with three different combined methods—capture ELISA, restriction enzymes, and polymerase chain reaction. Markoulatos P, et al. **J Clin Lab Anal** 1997;11(3):146–53
Genital herpes masquerading as anal fissures. Winceslaus J, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):276–7
Genital herpes during pregnancy: inability to distinguish primary and recurrent infections clinically. Hensleigh PA, et al. **Obstet Gynecol** 1997 Jun;89(6):891–5
[Serous meningitis associated with primary genital herpes infection] Jensenius M, et al. **Tidsskr Nor Laegeforen** 1997 Jun 20;117(16):2316–8 (Eng. Abstr.) (Nor)

DRUG THERAPY

Acyclovir suppresses subclinical shedding of herpes simplex virus [letter; comment] Straus SE, et al. **Ann Intern Med** 1996 Nov 1;125(9):776–7. Comment on: Ann Intern Med 1996 Jan 1;124(1 Pt 1):8–15.
Famciclovir: review of clinical efficacy and safety. Cirelli R, et al. **Antiviral Res** 1996 Mar;29(2–3):141–51 (54 ref.)
Safety and efficacy of Virend for topical treatment of genital and anal herpes simplex lesions in patients with AIDS. Orozco–Topete R, et al. **Antiviral Res** 1997 Jul;35(2):91–103
Advising patients with genital herpes [editorial] Patel R, et al. **BMJ** 1997 Jan 11;314(7074):85–6
Valaciclovir versus aciclovir in patient initiated treatment of recurrent genital herpes: a randomised, double blind clinical trial. International Valaciclovir HSV Study Group. Bodsworth NJ, et al. **Genitourin Med** 1997 Apr;73(2):110–6
Valaciclovir for the suppression of recurrent genital HSV infection: a placebo controlled study of once daily therapy. International Valaciclovir HSV Study Group [see comments] Patel R, et al. **Genitourin Med** 1997 Apr; 73(2):105–9. Comment in: Genitourin Med 1997 Apr;73(2):83–4.
Sharing prescribing of continuous aciclovir treatment: effects of a new policy and general practitioner responses [letter] Vonau B, et al. **Genitourin Med** 1997 Jun;73(3):225–6
Beyond efficacy: new issues for HSV antiviral therapy [editorial; comment] Wald A. **Genitourin Med** 1997 Apr; 73(2):83–4. Comment on: Genitourin Med 1997 Apr;73(2):105–9.
Perinatal herpesvirus infections. Herpes simplex, varicella, and cytomegalovirus. Scott LL, et al. **Infect Dis Clin North Am** 1997 Mar;11(1):27–53 (146 ref.)
Survey of the management of genital herpes in general practice. Woolley PD, et al. **Int J STD AIDS** 1996 May–Jun;7(3):206–11
Treatment of herpes simplex & varicella zoster infection [editorial] Barrg C, et al. **Ir Med J** 1996 Jul–Aug; 89(4):132–4 (8 ref.)
Frequent genital herpes simplex virus 2 shedding in immunocompetent women. Effect of acyclovir treatment. Wald A, et al. **J Clin Invest** 1997 Mar 1;99(5):1092–7
Detection of viral DNA to evaluate outcome of antiviral treatment of patients with recurrent genital herpes. Diaz–Mitoma F, et al. **J Clin Microbiol** 1996 Mar; 34(3):657–63
Oral famciclovir for recurrent genital herpes. Brown D. **J Fam Pract** 1996 Oct;43(4):341–2
Acyclovir in pregnancy for primary prevention of neonatal herpes. Stiffman MN, et al. **J Fam Pract** 1997 Jan; 44(1):29–30
Famciclovir for genital herpes [letter; comment] Goldman BD. **JAMA** 1997 Jan 15;277(3):210–1. Comment on: JAMA 1996 Jul 3;276(1):44–9.
Administration of oral acyclovir suppressive therapy after neonatal herpes simplex virus disease limited to the skin, eyes and mouth: results of a phase I/II trial. Kimberlin D, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):247–54
Interferon found helpful in herpes genitalis case [letter] Dungwa N. **S Afr Med J** 1997 Apr;87(4):475
Genital herpes simplex virus and its treatment: focus on famciclovir. Sacks SL. **Semin Dermatol** 1996 Jun;15(2 Suppl 1):32–6 (43 ref.)
Over–the–counter acyclovir. An idea whose time has come [editorial] Fife KH. **Sex Transm Dis** 1996 May–Jun; 23(3):174–6
Acyclovir should not be approved for marketing without prescription [editorial] Handsfield HH. **Sex Transm Dis** 1996 May–Jun;23(3):171–3

ECONOMICS

Acyclovir prophylaxis in late pregnancy to prevent neonatal herpes: a cost–effectiveness analysis. Randolph AG, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):603–10

EPIDEMIOLOGY

Relationship of sexual mixing across age and ethnic groups to herpes simplex virus–2 among unmarried heterosexual adults with multiple sexual partners. Catania JA, et al. **Health Psychol** 1996 Sep;15(5):362–70
Herpes simplex virus type 2 in Brazil: seroepidemiologic survey. Da Rosa–Santos OL, et al. **Int J Dermatol** 1996 Nov;35(11):794–6
Genital herpes infection: a review. Brugha R, et al. **Int J Epidemiol** 1997 Aug;26(4):698–709 (127 ref.)
Herpes simplex type 1 and genital herpes in Northern Ireland [letter] Christie SN, et al. **Int J STD AIDS** 1997 Jan; 8(1):68–9
Epidemiology of herpes simplex virus type 2 infections in a high–risk adolescent population. Huerta K, et al. **J Adolesc Health** 1996 Jun;18(6):384–6
Herpes simplex virus type 2—a persistent problem [editorial; comment] Arvin AM, et al. **N Engl J Med** 1997 Oct 16; 337(16):1158–9. Comment on: N Engl J Med 1997 Oct 16;337(16):1105–11.
Herpes simplex virus type 2 in the United States, 1976 to 1994 [see comments] Fleming DT, et al. **N Engl J Med** 1997 Oct 16;337(16):1105–11. Comment in: N Engl J Med 1997 Oct 16;337(16):1158–9.
Seroprevalence of herpes simplex virus type 2 antibodies in New Zealand sexual health clinic patients. Perkins NL, et al. **N Z Med J** 1996 Oct 25;109(1032):402–5
Limiting the spread of genital herpes. Kinghorn GR. **Scand J Infect Dis Suppl** 1996;100:20–5 (39 ref.)
Genital herpes in a primary care clinic. Demographic and sexual correlates of herpes simplex type 2 infections. Wald A, et al. **Sex Transm Dis** 1997 Mar;24(3):149–55

ETIOLOGY

[The effect of Opisthorchis on the manifestations of herpesvirus type 2 in an experiment and their possible participation in the mechanism of the occurrence of primary liver cancer] Ivanskikh VI, et al. **Med Parazitol (Mosk)** 1996 Apr–Jun;(2):23–6 (Eng. Abstr.) (Rus)

IMMUNOLOGY

Herpes virus–specific immune responses in individuals experiencing recurrent genital herpes. Boswell CM, et al. **Biochem Soc Trans** 1997 May;25(2):278S
High interferon alpha levels in placenta, maternal, and cord blood suggest a protective effect against intrauterine herpes simplex virus infection. Zdravkovic M, et al. **J Med Virol** 1997 Mar;51(3):210–3
High frequency of CD8+ cytotoxic T–lymphocyte precursors specific for herpes simplex viruses in persons with genital herpes. Posavad CM, et al. **J Virol** 1996 Nov; 70(11):8165–8
Herpes simplex virus–specific IgM, IgA and IgG subclass antibody responses in primary and nonprimary genital herpes patients. Hashido M, et al. **Microbiol Immunol** 1997; 41(5):415–20
Immunization with DNA vaccines encoding glycoprotein D or glycoprotein B, alone or in combination, induces protective immunity in animal models of herpes simplex virus–2 disease. McClements WL, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11414–20
Effects of the estrous cycle on local humoral immune responses and protection of intranasally immunized female mice against herpes simplex virus type 2 infection in the genital tract. Gallichan WS, et al. **Virology** 1996 Oct 15; 224(2):487–97

METABOLISM

[Disorders in the interferon system in patients with virus–associated and chlamydial infections] Ershov FI, et al. **Vopr Virusol** 1996 Jul–Aug;41(4):172–4 (Eng. Abstr.) (Rus)

MICROBIOLOGY

Simple algorithms for the management of genital ulcers: evaluation in a primary health care centre in Kigali, Rwanda. Bogaerts J, et al. **Bull World Health Organ** 1995; 73(6):761–7

PATHOLOGY

Genital herpes simplex infection in women. White C, et al. **Clin Dermatol** 1997 Jan–Feb;15(1):81–91 (79 ref.)

PHYSIOPATHOLOGY

Disseminated herpesvirus infection during pregnancy. Young EJ, et al. **Clin Infect Dis** 1996 Jan;22(1):51–8 (71 ref.)
Resolution of anorectal incontinence in herpes proctitis confirmed by anorectal manometry. Joseph D, et al. **Gastrointest Endosc** 1997 May;45(5):429–32 (14 ref.)
Mutations in the 5' end of the herpes simplex virus type 2 latency–associated transcript (LAT) promoter affect LAT expression in vivo but not the rate of spontaneous reactivation of genital herpes. Wang K, et al. **J Virol** 1997 Oct;71(10):7903–10

PREVENTION & CONTROL

Oral famciclovir for suppression of recurrent genital herpes simplex virus infection in women. A multicenter, double–blind, placebo–controlled trial. Collaborative Famciclovir Genital Herpes Research Group. Mertz GJ, et al. **Arch Intern Med** 1997 Feb 10;157(3):343–9
Orally administered HSV–specific transfer factor (TF) prevents genital or labial herpes relapses. Pizza G, et al. **Biotherapy** 1996;9(1–3):67–72
Antenatal serum screening for genital herpes: a study of knowledge and attitudes of women at a central London hospital. Vonau B, et al. **Br J Obstet Gynaecol** 1997 Mar; 104(3):347–9
Seroepidemiology and control of genital herpes: the value of type specific antibodies to herpes simplex virus. Slomka MJ. **Commun Dis Rep CDR Rev** 1996 Mar 1;6(3):R41–5 (35 ref.)
"Stat." single dose of acyclovir for prevention of herpes simplex. Shelley WB, et al. **Cutis** 1996 Jun;57(6):453
Differential T cell response induced by certain recombinant oligopeptides of herpes simplex virus glycoprotein B in mice. Tizard ML, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1625–32
A genetically inactivated herpes simplex virus type 2 (HSV–2) vaccine provides effective protection against primary and recurrent HSV–2 disease. Boursnell ME, et al. **J Infect Dis** 1997 Jan;175(1):16–25
DNA immunization confers protective immunity on mice challenged intravaginally with herpes simplex virus type 2. Bourne N, et al. **Vaccine** 1996 Sep;14(13):1230–4
The prophylactic effect of immunization with DNA encoding herpes simplex virus glycoproteins on HSV–induced disease in guinea pigs. McClements WL, et al. **Vaccine** 1997 Jun;15(8):857–60
Construction and characterization of a replication–defective herpes simplex virus 2 ICP8 mutant strain and its use in immunization studies in a guinea pig model of genital disease. Da Costa XJ, et al. **Virology** 1997 May 26; 232(1):1–12

HERPES GENITALIS

Topically applied human recombinant monoclonal IgG1 antibody and its Fab and F(ab')2 fragments protect mice from vaginal transmission of HSV-2. Zeitlin L, et al. **Virology** 1996 Nov 1;225(1):213-5

THERAPY

Co-therapy with suboptimal doses of interleukin-12 and interferon-alpha promotes synergistic protection against herpes virus infection. Rogerson JA, et al. **Ann N Y Acad Sci** 1996 Oct 31;795:354-6

Genital herpes: an integrated approach to management. Conant MA, et al. **J Am Acad Dermatol** 1996 Oct; 35(4):601-5 (27 ref.)

The efficacy and safety of Skinner herpes simplex vaccine towards modulation of herpes genitalis; report of a prospective double-blind placebo-controlled trial. Skinner GR, et al. **Med Microbiol Immunol (Berl)** 1997 Jun; 186(1):31-6

TRANSMISSION

Asymptomatic shedding of HSV in patients with AIDS. Apgar B. **Am Fam Physician** 1997 Sep 1;56(3):910

Vagina dentata revisited: gender and asymptomatic shedding of genital herpes. Pliskin KL. **Cult Med Psychiatry** 1995 Dec;19(4):479-501

Relationship of sexual mixing across age and ethnic groups to herpes simplex virus-2 among unmarried heterosexual adults with multiple sexual partners. Catania JA, et al. **Health Psychol** 1996 Sep;15(5):362-70

Asymptomatic shedding of herpes simplex virus from the genital tract: uncertainty and its consequences for patient management. The Herpes Simplex Virus Advisory Panel [editorial] Barton SE, et al. **Int J STD AIDS** 1996 Jul; 7(4):229-32 (13 ref.)

VIROLOGY

Herpes simplex virus type 2 detection by culture and polymerase chain reaction and relationship to genital symptoms and cervical antibody status during the third trimester of pregnancy. Boggess KA, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):443-51

Frequent genital herpes simplex virus 2 shedding in immunocompetent women. Effect of acyclovir treatment. Wald A, et al. **J Clin Invest** 1997 Mar 1;99(5):1092-7

Localization of latency-associated transcripts in the uterovaginal plexus of herpes simplex virus type 1 and 2 latently infected mice. Podlech J, et al. **J Gen Virol** 1997 May;78 (Pt 5):1103-8

Evaluation of a new general primer pair for rapid detection and differentiation of HSV-1, HSV-2, and VZV by polymerase chain reaction. Baron JM, et al. **J Med Virol** 1996 Aug;49(4):279-82

Suitability and clinical application of a multiplex nested PCR assay for the diagnosis of herpes simplex virus infections. Cassinotti P, et al. **J Med Virol** 1996 Sep;50(1):75-81

Distribution of herpes simplex virus types 1 and 2 genomes in human spinal ganglia studied by PCR and in situ hybridization. Obara Y, et al. **J Med Virol** 1997 Jun; 52(2):136-42

Detection of herpes simplex virus DNA in cerebrospinal fluid samples using the polymerase chain reaction and microplate hybridization. Vesanen M, et al. **J Virol Methods** 1996 May; 59(1-2):1-11

Genital herpes simplex virus infection in females in Ibadan Nigeria. Oni AA, et al. **West Afr J Med** 1996 Apr-Jun; 15(2):107-10

[Antigenic and genomic characterization of Herpes simplex virus isolated from double genital infections] Martínez MJ, et al. **Rev Med Chil** 1996 Feb;124(2):153-9 (Eng. Abstr.) **(Spa)**

HERPES GESTATIONIS

Gestational herpes: 3 cases. Uncu G, et al. **J Obstet Gynaecol** 1995 Aug;21(4):381-4

DIAGNOSIS

Analysis of antigens recognized by autoantibodies in herpes gestationis. Usefulness of immunoblotting using a fusion protein representing an extracellular domain of the 180 kD bullous pemphigoid antigen. Murakami H, et al. **J Dermatol Sci** 1996 Nov;13(2):112-7

DRUG THERAPY

New observations on herpes gestationis therapy. Paternoster DM, et al. **Int J Gynaecol Obstet** 1997 Mar;56(3):277-8

ETIOLOGY

Progress and new directions in the investigation of the specific dermatoses of pregnancy. Black MM. **Keio J Med** 1997 Mar;46(1):40-1 (13 ref.)

IMMUNOLOGY

The majority of bullous pemphigoid and herpes gestationis serum samples react with the NC16a domain of the 180-kDa bullous pemphigoid antigen. Matsumura K, et al. **Arch Dermatol Res** 1996 Aug;288(9):507-9

Analysis of antigens recognized by autoantibodies in herpes gestationis. Usefulness of immunoblotting using a fusion protein representing an extracellular domain of the 180 kD bullous pemphigoid antigen. Murakami H, et al. **J Dermatol Sci** 1996 Nov;13(2):112-7

HERPES LABIALIS

see related
STOMATITIS, HERPETIC

COMPLICATIONS

Labial adhesion [letter; comment] Jarvis RR, et al. **Br J Urol** 1997 Jan;79(1):149-50. Comment on: Br J Urol 1996 Jul;78(1):146-7.

A case of zoster in the 2nd and 3rd branches of the trigeminal nerve associated with simultaneous herpes labialis infection--a case report. Terasaki S, et al. **Kurume Med J** 1997;44(1):61-6

DIAGNOSIS

Patient recognition of recrudescent herpes labialis: a clinical and virological assessment. Lamey PJ, et al. **J Dent** 1996 Sep;24(5):325-7

DRUG THERAPY

n-Docosanol 10% cream in the treatment of recurrent herpes labialis: a randomised, double-blind, placebo-controlled study. Habbema L, et al. **Acta Derm Venereol** 1996 Nov; 76(6):479-81

Fixed drug eruption due to acyclovir. Montoro J, et al. **Contact Dermatitis** 1997 Apr;36(4):225

Penciclovir cream for herpes simplex labialis. Lawless C, et al. **J Fam Pract** 1997 Aug;45(2):105-6

Topical undecylenic acid for herpes simplex labialis: a multicenter, placebo-controlled trial. Shafran SD, et al. **J Infect Dis** 1997 Jul;176(1):78-83

Contempo 1997: dermatology [letter] Marks L, et al. **JAMA** 1997 Oct 8;278(14):1148; discussion 1149

Penciclovir cream for the treatment of herpes simplex labialis. A randomized, multicenter, double-blind, placebo-controlled trial. Topical Penciclovir Collaborative Study Group. Spruance SL, et al. **JAMA** 1997 May 7; 277(17):1374-9

Topical penciclovir for herpes labialis. **Med Lett Drugs Ther** 1997 Jun 20;39(1003):57-8

[Acyclovir freely obtainable (letter; comment)] Lekkerkerker JF, et al. **Ned Tijdschr Geneeskd** 1996 Sep 7;140(36):1832 . Comment on: Ned Tijdschr Geneeskd 1996 Jul 6;140(27):1412-3. **(Dut)**

ETIOLOGY

Successful foscarnet therapy for mucocutaneous infection with herpes simplex virus in a recipient after unrelated bone marrow transplantation. Iino T, et al. **Bone Marrow Transplant** 1996 Dec;18(6):1185-8

IMMUNOLOGY

Infection and immunity. Slavkin HC. **J Am Dent Assoc** 1996 Dec;127(12):1792-6

MICROBIOLOGY

Patient recognition of recrudescent herpes labialis: a clinical and virological assessment. Lamey PJ, et al. **J Dent** 1996 Sep;24(5):325-7

PREVENTION & CONTROL

Orally administered HSV-specific transfer factor (TF) prevents genital or labial herpes relapses. Pizza G, et al. **Biotherapy** 1996;9(1-3):67-72

[Yellow fever vaccination as prophylaxis of herpes labialis] Møller A, et al. **Ugeskr Laeger** 1997 Apr 7;159(15):2228-9 (Eng. Abstr.) **(Dan)**

THERAPY

Destructive mucocutaneous phagedenic herpes simplex virus infection in an HIV-infected patient who had a partial response to interferon and ultraviolet rays. Giani G, et al. **Clin Infect Dis** 1996 Feb;22(2):381-2

VIROLOGY

Infection and immunity. Slavkin HC. **J Am Dent Assoc** 1996 Dec;127(12):1792-6

Detection of herpes simplex virus type 1 shedding in the oral cavity by polymerase chain reaction and enzyme-linked immunosorbent assay at the prodromal stage of recrudescent herpes labialis. Scott DA, et al. **J Oral Pathol Med** 1997 Aug;26(7):305-9

HERPES LABIALIS VIRUS see **SIMPLEXVIRUS**

HERPES SIMPLEX

Viral folliculitis. Atypical presentations of herpes simplex, herpes zoster, and molluscum contagiosum [see comments] Weinberg JM, et al. **Arch Dermatol** 1997 Aug;133(8):983-6 . Comment in: Arch Dermatol 1997 Aug;133(8):1039-41.

Amnesia in acute herpetic and nonherpetic encephalitis. Hokkanen L, et al. **Arch Neurol** 1996 Oct;53(10):972-8

Neonatal herpes simplex virus infection. Kohl S. **Clin Perinatol** 1997 Mar;24(1):129-50 (115 ref.)

Evidence for multiple routes of speech production in a case of fluent aphasia. Ingles JL, et al. **Cortex** 1996 Jun; 32(2):199-219

Herpes simplex virus type-1 infection of corneal epithelial cells induces apoptosis of the underlying keratocytes. Wilson SE, et al. **Exp Eye Res** 1997 May;64(5):775-9

Herpes simplex: evolving concepts. Pereira FA. **J Am Acad Dermatol** 1996 Oct;35(4):503-20; quiz 521-2 (182 ref.)

Resistant herpes infection of the palm in a patient with acquired immunodeficiency syndrome: a case report. Dilley D, et al. **J Hand Surg [Am]** 1997 Jul;22(4):650-2

Cognitive impairment after acute encephalitis: comparison of herpes simplex and other aetiologies [published erratum appears in J Neurol Neurosurg Psychiatry 1997 Jun;62(6):679] Hokkanen L, et al. **J Neurol Neurosurg Psychiatry** 1996 Nov;61(5):478-84

Analysis of the 2-kilobase latency-associated transcript expressed in PC12 cells productively infected with herpes simplex virus type 1: evidence for a stable, nonlinear structure. Rødahl E, et al. **J Virol** 1997 Feb;71(2):1703-7

Reactivation of herpes simplex virus type 1 in cells of latently infected mouse trigeminal ganglia cultured in serum-free medium. Kimura S. **Microbiol Immunol** 1996;40(3):243-6

Regulated release and polarized localization of brain-derived neurotrophic factor in hippocampal neurons. Goodman LJ, et al. **Mol Cell Neurosci** 1996 Mar;7(3):222-38

Anterior opercular syndrome, caused by herpes simplex encephalitis. McGrath NM, et al. **Neurology** 1997 Aug; 49(2):494-7

Quantitation of herpes simplex virus type 1 DNA in cells of cerebrospinal fluid of patients with herpes simplex virus encephalitis. Wildemann B, et al. **Neurology** 1997 May; 48(5):1341-6

Herpes simplex virus infections. Annunziato PW, et al. **Pediatr Rev** 1996 Dec;17(12):415-23; quiz 424 (11 ref.)

Management of herpes simplex and varicella-zoster virus infections. Erlich KS. **West J Med** 1997 Mar;166(3):211-5 (43 ref.)

[Detection of latent herpes simplex virus in human vestibular ganglia] Suzuki S. **Hokkaido Igaku Zasshi** 1996 Sep; 71(5):561-71 (Eng. Abstr.) **(Jpn)**

[Progress on diagnosis and therapy of herpes simplex encephalitis] Fujiki N, et al. **Nippon Naika Gakkai Zasshi** 1996 May 10;85(5):711-5 (5 ref.) **(Jpn)**

[Herpes viruses--herpes simplex virus, varicella-zoster virus, EB virus, cytomegalovirus] Fujiki N, et al. **Nippon Rinsho** 1997 Apr;55(4):855-60 (17 ref.) (Eng. Abstr.) **(Jpn)**

[A case of sympathotonic orthostatic hypotension following herpes simplex encephalitis] Tamura N, et al. **Rinsho Shinkeigaku** 1996 Oct;36(10):1161-5 (Eng. Abstr.) **(Jpn)**

[Effect of infection with herpes simplex and rubella virus of highly differentiated human and guinea pig astrocytes] Poleshchuk NN, et al. **Biull Eksp Biol Med** 1996 Oct; 122(10):413-7 **(Rus)**

BLOOD

An alternative elastase-mediated degradation of fibrinogen and fibrin observed in a patient with herpes simplex encephalitis and pneumonia. Iijima K, et al. **Thromb Haemost** 1996 Aug;76(2):184-6

CEREBROSPINAL FLUID

Stability of herpes simplex virus DNA in cerebrospinal fluid specimens. Wiedbrauk DL, et al. **Diagn Mol Pathol** 1996 Dec;5(4):249-52

COMPLICATIONS

Herpes simplex virus seropositivity and reactivation at delivery among pregnant women infected with human immunodeficiency virus-1. Hitti J, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):450-4

Coexistent Acanthamoeba keratitis and herpetic keratitis. Mathers WD, et al. **Arch Ophthalmol** 1997 Jun;115(6):714-8

Intracerebral haematoma formation in herpes simplex encephalitis: a case report. Malik A, et al. **Australas Radiol** 1997 Aug;41(3):303-5

Canalicular stenosis in the course of primary herpes simplex infection [letter] Jager GV, et al. **Br J Ophthalmol** 1997 Apr;81(4):332 (8 ref.)

Delayed acute retinal necrosis after herpetic encephalitis [letter] Pavésio CE, et al. **Br J Ophthalmol** 1997 May; 81(5):415-6

Fulminant hepatitis during herpes simplex virus infection in apparently immunocompetent adults: report of two cases and review of the literature. Farr RW, et al. **Clin Infect Dis** 1997 Jun;24(6):1191-4

Inoculation herpes simplex virus infections in patients with AIDS: unusual appearance and location of lesions. Weaver G, et al. **Clin Infect Dis** 1996 Jan;22(1):141-2

Experimental investigation of herpes simplex virus latency. Wagner EK, et al. **Clin Microbiol Rev** 1997 Jul;10(3):419-43 (332 ref.)

Herpes simplex blepharoconjunctivitis presenting as complete acquired ankyloblepharon. Campanella PC, et al. **Cornea** 1997 May;16(3):360-1

Cutaneous herpes simplex virus, type I, in association with

Staphylococcus aureus in an infant. Vinson RP, et al. **Cutis** 1996 Sep;58(3):227–9

Acute transverse myelitis caused by herpes simplex virus. Petereit HF, et al. **Eur Neurol** 1996;36(1):52–3

Pulmonary herpes simplex in burns patients. Byers RJ, et al. **Eur Respir J** 1996 Nov;9(11):2313–7

Kaposi's varicelliform eruption in pemphigus foliaceus. Palleschi GM, et al. **Int J Dermatol** 1996 Nov;35(11):809–10

ARDS caused by herpes simplex virus pneumonia in a patient with Crohn's disease: a case report. François–Dufresne A, et al. **Intensive Care Med** 1997 Mar;23(3):345–7

Relapse and movement disorder after herpes simplex encephalitis [letter; comment] Baxter P, et al. **J Child Neurol** 1997 Jun;12(4):283. Comment on: J Child Neurol 1995 Sep;10(5):363–8.

The impact of active herpes simplex virus infection on human immunodeficiency virus load. Mole L, et al. **J Infect Dis** 1997 Sep;176(3):766–70

Detection of herpes simplex DNA in semen and menstrual blood of individuals attending an infertility clinic. el Borai N, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):17–24

Hearing loss and herpes simplex. al Muhaimeed H, et al. **J Trop Pediatr** 1997 Feb;43(1):20–4

Two cases of recurrent herpetic infection of the tongue. Kobayashi Y, et al. **Kurume Med J** 1996;43(3):237–41

Granulomatous vasculitis associated with herpes virus: a persistent, painful, postherpetic papular eruption. Snow JL, et al. **Mayo Clin Proc** 1997 Sep;72(9):851–3

Hypomanic symptoms caused by herpes simplex encephalitis. Fisher CM. **Neurology** 1996 Dec;47(6):1374–8

Effect of high–frequency oscillatory ventilation on intracranial pressure in a child with herpes encephalitis and acute respiratory distress syndrome. Reyes G, et al. **Pediatr Pulmonol** 1997 Aug;24(2):115–8

Stymied by seizures. When the clues point to the wrong path. Cohen MR. **Postgrad Med** 1997 Apr;101(4):289–92

Acute visual disturbance in a young adult. McDonnell GV, et al. **Postgrad Med J** 1997 May;73(859):307–9

[An autopsied case doubly infected by mucor mycelia and herpes simplex virus–2 in the remission state after bone marrow transplantation for acute myelogenous leukemia] Muramori F, et al. **No To Shinkei** 1997 May;49(5):449–53 (Eng. Abstr.) **(Jpn)**

[Virus–induced morphological changes in arterial vessels of rabbits with herpetic keratoconjunctivitis and in patients with generalized herpetic infection] Amvros'eva TV, et al. **Biull Eksp Biol Med** 1996 Jun;121(6):702–6 **(Rus)**

[Ulcer course features in the presence of Helicobacter and Herpes infections] Vinogradova MA, et al. **Klin Med (Mosk)** 1997;75(5):26–7 **(Rus)**

[Study of an experimental herpesvirus infection during irradiation] Alimbarova LM, et al. **Vopr Virusol** 1996 Sep–Oct;41(5):228–32 (Eng. Abstr.) **(Rus)**

[Chronic ascending encephalomyelitis of herpetic etiology (a clinico–morphological study)] Nedz'ved' MK, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(4):101–3 **(Rus)**

[Primary herpetic esophageal infection in an immunocompetent patient] Montalvo II, et al. **Gastroenterol Hepatol** 1996 Dec;19(10):511–3 (Eng. Abstr.) **(Spa)**

[Ulcerated esophageal lesions in a patient with AIDS. Herpes esophagitis] López–Cubero L, et al. **Rev Clin Esp** 1996 Jun; 196(6):403–4, 409 **(Spa)**

CONGENITAL

Magnetic resonance imaging of herpes simplex encephalitis. Shian WJ, et al. **Acta Paediatr Sin** 1996 Jan–Feb;37(1):22–6

[Herpes neonatorum––prevention and therapy. Which newborn infants are at risk? When cesarean section, when acyclovir?] Gabler–Sandberger E. **Fortschr Med** 1996 Oct 30;114(30):393–4 **(Ger)**

[Herpes simplex: generalized infection in a newborn] Ceriatti FS, et al. **Enferm Infecc Microbiol Clin** 1997 Feb; 15(2):88–90 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Naming deficit in herpes simplex encephalitis. Barbarotto R, et al. **Acta Neurol Scand** 1996 Apr;93(4):272–80 (28 ref.)

Herpetic croup: two case reports and a review of the literature. Mancao MY, et al. **Acta Paediatr** 1996 Jan; 85(1):118–20 (9 ref.)

Herpes simplex virus encephalitis in a renal transplant patient: diagnosis by polymerase chain reaction detection of HSV DNA. Gómez E, et al. **Am J Kidney Dis** 1997 Sep; 30(3):423–7

Retinal perivasculitis in an immunocompetent patient with systemic herpes simplex infection. Chatzoulis DM, et al. **Am J Ophthalmol** 1997 May;123(5):699–702

Comparison of MRC–5 and primary rabbit kidney cells for the detection of herpes simplex virus. McCarter YS, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):122–4

Routine detection of herpes simplex virus and varicella zoster virus by polymerase chain reaction reveals that initial herpes zoster is frequently misdiagnosed as herpes simplex. Rübben A, et al. **Br J Dermatol** 1997 Aug;137(2):259–61

Quantitation of herpes simplex virus DNA in cerebrospinal fluid of patients with herpes simplex encephalitis by the polymerase chain reaction. Revello MG, et al. **Clin Diagn Virol** 1997 Feb;7(3):183–91

Evaluation of the range of clinical presentations of herpes simplex encephalitis by using polymerase chain reaction assay of cerebrospinal fluid samples. Domingues RB, et al. **Clin Infect Dis** 1997 Jul;25(1):86–91

Herpes simplex virus hepatitis: case report and review. Kaufman B, et al. **Clin Infect Dis** 1997 Mar;24(3):334–8 (55 ref.)

Photo quiz. Blepharitis due to herpes simplex virus type 1. Robinson J. **Clin Infect Dis** 1997 Jan;24(1):17, 75

Detection of herpes simplex virus in exacerbated pemphigus vulgaris by polymerase chain reaction. Schlüpen EM, et al. **Dermatology** 1996;192(4):312–6

Chronic meningitis due to herpes simplex virus in an immunocompetent host. Chin RH, et al. **Eur J Clin Microbiol Infect Dis** 1996 Aug;15(8):650–3

Herpes simplex meningitis after surgical removal of a clivus chordoma [letter] [published erratum appears in Eur J Clin Microbiol Infect Dis 1997 Jun;16(6):481] Najioullah F, et al. **Eur J Clin Microbiol Infect Dis** 1997 Apr;16(4):327–8

Case of the month: a newborn with tachypnoea and consolidation of the right lung. Karperien A, et al. **Eur J Pediatr** 1996 Sep;155(9):827–9

Prenatal diagnosis of fetal herpes simplex infection. Lanouette JM, et al. **Fetal Diagn Ther** 1996 Nov–Dec;11(6):414–6

Prospective evaluation of biopsy number for the diagnosis of viral esophagitis in patients with HIV infection and esophageal ulcer. Wilcox CM, et al. **Gastrointest Endosc** 1996 Nov;44(5):587–93

A comparative study of the polymerase chain reaction and local antibody production in acute retinal necrosis syndrome and cytomegalovirus retinitis. Abe T, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Jul;234(7):419–24

Diagnostic vitrectomy and chronic uveitis. Verbraeken H. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S2–7

Herpes simplex hepatitis. Mantry P, et al. **Indian J Gastroenterol** 1997 Jan;16(1):33–4

Unusual course of herpes simplex virus encephalitis after acyclovir therapy. Preiser W, et al. **Infection** 1996 Sep–Oct; 24(5):384–9

Herpes encephalitis, schizophrenia and the crossroads of psychiatry. Howard JS 3rd. **Integr Physiol Behav Sci** 1996 Jul–Sep;31(3):219–23

Magnetic resonance imaging of herpes simplex virus encephalitis: reversible asymmetric basal ganglia lesions. Yoshii F, et al. **Intern Med** 1996 Nov;35(11):909–11

Molecular diagnosis of herpes simplex encephalitis. Revello MG, et al. **Intervirology** 1996;39(3):185–92 (69 ref.)

Clear detection and typing of herpes simplex virus types 1 and 2 by an indirect ELISA assay: comparison with three different combined methods––capture ELISA, restriction enzymes, and polymerase chain reaction. Markoulatos P, et al. **J Clin Lab Anal** 1997;11(3):146–53

Rapid detection and typing of herpes simplex virus DNA in clinical specimens by the hybrid capture II signal amplification probe test. Cullen AP, et al. **J Clin Microbiol** 1997 Sep;35(9):2275–8

Differentiation of primary from nonprimary genital herpes infections by a herpes simplex virus–specific immunoglobulin G avidity assay. Hashido M, et al. **J Clin Microbiol** 1997 Jul;35(7):1766–8

Disseminated herpes simplex virus infection presenting as fever in the newborn––a lethal outcome. Jain R, et al. **J Infect** 1996 May;32(3):239–41

Application of the polymerase chain reaction to the diagnosis and management of neonatal herpes simplex virus disease. National Institute of Allergy and Infectious Diseases Collaborative Antiviral Study Group. Kimberlin DW, et al. **J Infect Dis** 1996 Dec;174(6):1162–7

Fatal brain stem encephalitis due to herpes simplex virus type 1 in AIDS [letter] Moulignier A, et al. **J Neurol** 1996 Jun; 243(6):491–3

Longitudinal MR imaging and proton MR spectroscopy in herpes simplex encephalitis. Takanashi J, et al. **J Neurol Sci** 1997 Jul;149(1):99–102

Neonatal herpes simplex virus infection after cesarean section with intact amniotic membranes. Peng J, et al. **J Perinatol** 1996 Sep–Oct;16(5):397–9 (17 ref.)

European consensus on viral encephalitis. Lipkin WI. **Lancet** 1997 Feb 1;349(9048):299–300

Biotin–rich nuclear inclusions of gestational endometrium, not herpes infection [letter] Fox H. **Pathol Res Pract** 1995 Dec;191(12):1272

Early diagnosis and management of herpes simplex encephalitis. Prober CG, et al. **Pediatr Infect Dis J** 1996 Apr;15(4):387–8

Herpes simplex virus type 1 meningitis. Rathore MH, et al. **Pediatr Infect Dis J** 1996 Sep;15(9):824–8

Selective language aphasia from herpes simplex encephalitis. Ku A, et al. **Pediatr Neurol** 1996 Sep;15(2):169–71

Stymied by seizures. When the clues point to the wrong path. Cohen MR. **Postgrad Med** 1997 Apr;101(4):289–92

MR FLAIR imaging of herpes simplex encephalitis. Ashikaga R, et al. **Radiat Med** 1996 Nov–Dec;14(6):349–52

The Agar sandwich technique for retinal biopsy processing. Banker AS, et al. **Retina** 1996;16(6):530–4

Advantage of polymerase chain reaction in the diagnosis of herpes simplex encephalitis: presentation of 5 atypical cases. Domingues RB, et al. **Scand J Infect Dis** 1997;29(3):229–31

Herpes simplex virus and pregnancy. Forsgren M, et al. **Scand J Infect Dis Suppl** 1996;100:14–9

Herpes simplex encephalitis. Sköldenberg B. **Scand J Infect Dis Suppl** 1996;100:8–13 (36 ref.)

Comparison of virus culture and the polymerase chain reaction for diagnosis of mucocutaneous herpes simplex virus infection. Safrin S, et al. **Sex Transm Dis** 1997 Mar; 24(3):176–80

Gestational herpes simplex virus hepatitis. Yaziji H, et al. **South Med J** 1997 Mar;90(3):347–51 (34 ref.)

[Apropos of a case with herpes meningoencephalitis] Bellagra N, et al. **Ann Biol Clin (Paris)** 1997 Mar–Apr;55(2):145–6 **(Fre)**

[Risks of diagnostic errors in pathology research of post–abortion herpetic endometritis: limitations of immunohistochemistry in situ hybridization] Sando Z, et al. **Ann Pathol** 1996 Sep;16(4):279–81 (Eng. Abstr.) **(Fre)**

[A herpes not so simplex] Vignes S, et al. **Rev Med Interne** 1997;18 Suppl 3:279s–281s **(Fre)**

[Serial changes of SPECT and MRI findings in a patient with herpes simplex encephalitis] Kurokawa Y, et al. **No To Shinkei** 1996 Feb;49(2):163–9 (Eng. Abstr.) **(Jpn)**

[Proton MR spectroscopy findings in herpes simplex encephalitis] Hitosugi M, et al. **Rinsho Shinkeigaku** 1996 Jul;36(7):839–43 (Eng. Abstr.) **(Jpn)**

[Diagnosis of herpes simplex encephalitis––an application and its problem] Itoyama Y. **Rinsho Shinkeigaku** 1996 Dec; 36(12):1362 **(Jpn)**

DRUG THERAPY

Early foscarnet failure in herpes simplex virus infection in a patient with AIDS [letter] Segal BH, et al. **AIDS** 1997 Mar 15;11(4):552–3

Topical foscarnet for aciclovir–resistant mucocutaneous herpes infections in AIDS [letter] Smith NA, et al. **AIDS** 1997 Feb;11(2):254–5

Cutaneously applied acyclovir acts systemically in the treatment of herpetic infection in the hairless mouse. Bolger GT, et al. **Antiviral Res** 1997 Aug;35(3):157–65

Safety and efficacy of Virend for topical treatment of genital and anal herpes simplex lesions in patients with AIDS. Orozco–Topete R, et al. **Antiviral Res** 1997 Jul;35(2):91–103

Correlation of in vivo topical efficacies with in vitro predictions using acyclovir formulations in the treatment of cutaneous HSV–1 infections in hairless mice: an evaluation of the predictive value of the C^* concept. Patel PJ, et al. **Antiviral Res** 1996 Mar;29(2–3):279–86

Treatment of acyclovir–resistant perianal herpetic ulceration with intramuscular interferon alfa. Borrego L, et al. **Arch Dermatol** 1996 Oct;132(10):1157–8

A controlled trial of oral acyclovir for the prevention of stromal keratitis or iritis in patients with herpes simplex virus epithelial keratitis. The Epithelial Keratitis Trial. The Herpetic Eye Disease Study Group. **Arch Ophthalmol** 1997 Jun;115(6):703–12

Supraglottitis due to herpes simplex virus type 1 in an adult. Bengualid V, et al. **Clin Infect Dis** 1996 Feb;22(2):382–3

Foscarnet therapy for acyclovir–resistant herpes simplex virus 1 infection in allogeneic bone marrow transplant recipients. Naik HR, et al. **Clin Infect Dis** 1995 Dec; 21(6):1514–5

Current clinical issues in the management of herpes simplex virus infections in patients with HIV. Conant M. **Dermatology** 1997;194(2):93–7

Treatment of herpes simplex & varicella zoster infection [editorial] Barrg C, et al. **Ir Med J** 1996 Jul–Aug; 89(4):132–4 (8 ref.)

Is long–term continuous therapy for recurrent herpes simplex safe? [letter] Wolf R, et al. **J Am Acad Dermatol** 1997 Sep; 37(3 Pt 1):508–10

Topical treatment of cutaneous herpes simplex virus–1 infection in mice with a specially formulated caffeine gel (Cafon). Yamamura J, et al. **J Dermatol Sci** 1996 Apr; 12(1):50–5

Efficacy of Cafon gel on cutaneous infection with herpes simplex virus (HSV)–2 and acyclovir–resistant HSV in mice. Yoshida Y, et al. **J Dermatol Sci** 1996 Dec; 13(3):237–41

Studies to show that with podophyllotoxin the early replicative stages of herpes simplex virus type 1 depend upon functional cytoplasmic microtubules. Hammonds TR, et al. **J Med Microbiol** 1996 Sep;45(3):167–72

The emergence of acyclovir resistance in mucocutaneous herpes simplex viral infections: implications for clinical practice [news] Grodesky MJ. **Nurse Pract** 1997 Jun; 22(6):155–6

Evaluation of a novel lipid prodrug for intraocular drug delivery: effect of acyclovir diphosphate dimyristoylglycerol in a rabbit model with herpes simplex virus–1 retinitis. Taskintuna I, et al. **Retina** 1997;17(1):57–64

Protection and therapy of experimental herpesvirus infections in mice with immunomodulating Propionibacterium avidum KP–40 and/or acyclovir. Kobus M, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):445–9

[Para–aminobenzoic acid in therapy of experimental keratitis caused by herpes simplex virus in rabbits: the therapeutic effect and decrease of infectious titer] Akberova SI, et al. **Vestn Oftalmol** 1996 Sep–Oct;112(4):23–6 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

Herpes simplex thymidine kinase gene transfer is required for complete regression of murine colon adenocarcinoma. Nielsen CS, et al. **Am Surg** 1997 Jul;63(7):617–20

Mechanism of 'bystander effect' killing in the herpes simplex thymidine kinase gene therapy model of cancer treatment. Ishii-Morita H, et al. **Gene Ther** 1997 Mar;4(3):244–51

Suppression of herpes simplex virus type 1 (HSV-1)-induced pneumonia in mice by inhibition of inducible nitric oxide synthase (iNOS, NOS2). Adler H, et al. **J Exp Med** 1997 May 5;185(9):1533–40

EPIDEMIOLOGY

Neonatal herpes in Denmark 1977–1991. Fonnest G, et al. **Acta Obstet Gynecol Scand** 1997 Apr;76(4):355–8

Herpes simplex virus infection in burned patients: epidemiology of 11 cases. Bourdarias B, et al. **Burns** 1996 Jun;22(4):287–90

Herpes simplex type 1 and genital herpes in Northern Ireland [letter] Christie SN, et al. **Int J STD AIDS** 1997 Jan; 8(1):68–9

Neonatal herpes simplex virus infection in the British Isles. Tookey P, et al. **Paediatr Perinat Epidemiol** 1996 Oct; 10(4):432–42

Seroprevalence of and risk factors for antibodies to herpes simplex viruses, hepatitis B, and hepatitis C among southwestern Hispanic and non-Hispanic white women. Becker TM, et al. **Sex Transm Dis** 1996 Mar–Apr; 23(2):138–44

Infectious disease complications post renal transplant in 220 patients. Marmol A, et al. **Transplant Proc** 1996 Dec; 28(6):3304

[An epidemiological study of herpetic viral infections in the Republic of Byelarus] Kolomiets AG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):24–9 (Eng. Abstr.) **(Rus)**

ETIOLOGY

Twenty years' delay of fellow eye involvement in herpes simplex virus type 2–associated bilateral acute retinal necrosis syndrome. Schlingemann RO, et al. **Am J Ophthalmol** 1996 Dec;122(6):891–2

Herpes simplex esophagitis in patients with AIDS: report of 34 cases. The Cooperative Study Group on Herpetic Esophagitis in HIV Infection. Généreau T, et al. **Clin Infect Dis** 1996 Jun;22(6):926–31

Unusual course of herpes simplex virus encephalitis after acyclovir therapy. Preiser W, et al. **Infection** 1996 Sep-Oct; 24(5):384–9

Herpes simplex virus as a sentinel lesion for cytomegalovirus infection [letter] Mora-Fernández C, et al. **Nephrol Dial Transplant** 1997 Apr;12(4):853

Newly acquired herpes simplex virus keratitis after penetrating keratoplasty. Remeijer L, et al. **Ophthalmology** 1997 Apr;104(4):648–52

Viral meningitis in a preadolescent child caused by reactivation of latent herpes simplex (type 1). Conway JH, et al. **Pediatr Infect Dis J** 1997 Jun;16(6):627–9

Risks of regional anesthesia--infectious, septic. Wedel DJ, et al. **Reg Anesth** 1996 Nov-Dec;21(6 Suppl):57–61 (30 ref.)

[Herpetic esophagitis disclosing primary HIV infection (letter)] Blain A, et al. **Gastroenterol Clin Biol** 1996; 20(6-7):612–3 **(Fre)**

[Herpes simplex virus and varicella-zoster virus infections in HIV-infected patients] Leport C, et al. **Presse Med** 1997 Jan;26 Suppl 1:10–2 (19 ref.) **(Fre)**

GENETICS

Quantitation of herpes simplex virus DNA in cerebrospinal fluid of patients with herpes simplex encephalitis by the polymerase chain reaction. Revello MG, et al. **Clin Diagn Virol** 1997 Feb;7(3):183–91

A phase I trial of in vivo gene therapy with the herpes simplex thymidine kinase/ganciclovir system for the treatment of refractory or recurrent ovarian cancer. Link CJ Jr, et al. **Hum Gene Ther** 1996 Jun 10;7(9):1161–79

IMMUNOLOGY

Cannabinoids and immunity to viruses. Specter S. **Adv Exp Med Biol** 1996;402:131–4 (11 ref.)

Expression of interleukin-10 mRNA in herpes simplex virus-infected keratinocytes in vivo and in vitro. Halliday KE, et al. **Biochem Soc Trans** 1997 May;25(2):282S

Transgenic mice expressing the thymus leukemia antigen fail to control cutaneous herpes simplex virus infection. Sharma P, et al. **Cell Immunol** 1996 Nov 25;174(1):84–9

Detection of viral antigen in the endolymphatic sac. Kumagami H. **Eur Arch Otorhinolaryngol** 1996; 253(4-5):264–7

Human herpes viruses latent infection in the nervous system. Steiner I. **Immunol Rev** 1996 Aug;152:157–73 (110 ref.)

The importance of MHC-I and MHC-II responses in vaccine efficacy against lethal herpes simplex virus type 1 challenge. Ghiasi H, et al. **Immunology** 1997 Jul;91(3):430–5

T cell receptor-gamma/delta cells protect mice from herpes simplex virus type 1-induced lethal encephalitis. Sciammas R, et al. **J Exp Med** 1997 Jun 2;185(11):1969–75

Reactivation of herpes simplex virus type 1 in the mouse trigeminal ganglion: an in vivo study of virus antigen and immune cell infiltration [published erratum appears in J Gen Virol 1996 Dec;77(Pt 12):3165] Shimeld C, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2583–90

Role of interferon-gamma in immunity to herpes simplex virus. Yu Z, et al. **J Leukoc Biol** 1996 Oct;60(4):528–32

Immune effector cell (IEC)-mediated protection from HSV-1 retinitis occurs in the brain. Zhao M, et al. **J Neuroimmunol** 1997 May;75(1-2):51–8

Corneal infection with herpes simplex virus type 1 leads to autoimmune responses in rats. Clark L, et al. **J Neurosci Res** 1996 Sep 15;45(6):770–5

Protective effects of interferon-gamma in intraocular herpes simplex type 1 infection do not depend on major histocompatibility complex class I or class II expression. Geiger KD, et al. **J Neurovirol** 1995 Dec;1(5-6):405–9

Growth hormone improves immune function and survival in burned mice infected with herpes simplex virus type 1. Takagi K, et al. **J Surg Res** 1997 Apr;69(1):166–70

High frequency of CD8+ cytotoxic T-lymphocyte precursors specific for herpes simplex viruses in persons with genital herpes. Posavad CM, et al. **J Virol** 1996 Nov; 70(11):8165–8

Herpes vaccines: spinning a new DISC [news] Fricker J. **Lancet** 1996 Dec 7;348(9041):1576

A role for macrophage scavenger receptors in atherosclerosis and susceptibility to infection. Suzuki H, et al. **Nature** 1997 Mar 20;386(6622):292–6

Vaccination with herpes simplex virus type 1 glycoprotein K impairs clearance of virus from the trigeminal ganglia resulting in chronic infection. Ghiasi H, et al. **Virology** 1996 Oct 1;224(1):330–3

[Evaluation of the immune and interferon status of children infected with herpes simplex virus and living in areas with increased radiation background] Alimbarova LM, et al. **Vopr Virusol** 1997 Jan-Feb;42(1):36–41 (Eng. Abstr.) **(Rus)**

METABOLISM

The neurotoxin quinolinic acid is increased in spinal cords of mice with herpes simplex virus encephalitis. Reinhard JF Jr, et al. **Adv Exp Med Biol** 1996;398:241–6

Herpes simplex virus Us11 protein enhances recovery of protein synthesis and survival in heat shock treated HeLa cells. Diaz-Latoud C, et al. **Cell Stress Chaperones** 1997 Jun;2(2):119–31

Differential effects of HSV-1 and HCMV infection on adhesion molecule expression on human corneal keratocytes. Stuart PM, et al. **Curr Eye Res** 1997 May; 16(5):496–502

HSV infection of polarized epithelial cells on filter supports: implications for transport assays and protein localization. Murphy C, et al. **Eur J Cell Biol** 1997 Mar;72(3):278–81

Herpes simplex virus type 1 alters transcript levels of tumor necrosis factor-alpha and interleukin-6 in retinal glial cells. Drescher KM, et al. **Invest Ophthalmol Vis Sci** 1996 Oct; 37(11):2302–12

Expression of herpes simplex associated antigens in ocular tissues following induced herpetic anterior uveitis. Shirane M. **Jpn J Ophthalmol** 1996;40(4):491–501

Infection of sympathetic and sensory neurones with herpes simplex virus does not elicit a shut-off of cellular protein synthesis: implications for viral latency and herpes vectors. Nichol PF, et al. **Neurobiol Dis** 1994 Nov;1(1-2):83–94

Induction of Fos protein expression in spinal cord neurons by herpes simplex virus infections in the mouse. Ozaki N, et al. **Neurosci Lett** 1996 Sep 20;216(1):61–4

Evidence for induction of interferon-alpha and interferon-beta in retinal glial cells of Müller. Drescher KM, et al. **Virology** 1997 Aug 4;234(2):309–16

[Disorders in the interferon system in patients with virus-associated and chlamydial infections] Ershov FI, et al. **Vopr Virusol** 1996 Jul-Aug;41(4):172–4 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Histopathology of peripheral nerves in cutaneous herpesvirus infection. Worrell JT, et al. **Am J Dermatopathol** 1997 Apr; 19(2):133–7

Small, freshly arrived histiocytes in cutaneous and mucosal herpetic lesions. van den Oord JJ, et al. **Arch Dermatol Res** 1996 Aug;288(9):500–6

Clinicopathologic correlations in acute retinal necrosis caused by herpes simplex virus type 2. Rahhal FM, et al. **Arch Ophthalmol** 1996 Nov;114(11):1416–9

Diffuse white matter lesions associated with herpes simplex encephalitis as observed on magnetic resonance imaging. Tamura T, et al. **Brain Dev** 1996 Mar-Apr;18(2):150–2

Neocortical temporal lobe sclerosis masquerading as Alzheimer dementia: does herpes virus encephalopathy protect against Alzheimer's disease? Ball MJ, et al. **Clin Neuropathol** 1997 Jan-Feb;16(1):1–12

Apoptosis induced in the spinal cord and dorsal root ganglion by infection of herpes simplex virus type 2 in the mouse. Ozaki N, et al. **Neurosci Lett** 1997 Jun 6;228(2):99–102

Biotin-rich nuclear inclusions of gestational endometrium, not herpes infection [letter] Remadi S. **Pathol Res Pract** 1995 Dec;191(12):1273

Naturally occurring herpes simplex encephalitis in a domestic rabbit (Oryctolagus cuniculus). Weissenböck H, et al. **Vet Pathol** 1997 Jan;34(1):44–7

[Weil's disease and necrotizing herpes pneumonia as the cause of death of a 39-year-old sewage drain worker] Bek M, et al. **Pathologe** 1996 Nov;17(6):471–6 (Eng. Abstr.) **(Ger)**

PHYSIOPATHOLOGY

Intact perceptual memory in the absence of conscious memory. Hamann SB, et al. **Behav Neurosci** 1997 Aug; 111(4):850–4

Effect of a beta-adrenergic antagonist, propranolol, on induced HSV-1 ocular recurrence in latently infected rabbits. Garza HH Jr, et al. **Curr Eye Res** 1997 May; 16(5):453–8

Polymerase chain reaction in the investigation of "relapse" following herpes simplex encephalitis. Dennett C, et al. **J Med Virol** 1996 Feb;48(2):129–32

Factors that contribute to the transneuronal spread of herpes simplex virus. LaVail JH, et al. **J Neurosci Res** 1997 Aug 15;49(4):485–96

Differences in resistance to herpes simplex virus type 1 (HSV-1) among oligodendroglia derived from different strains of mice are determined after viral adsorption but prior to the expression of immediate early (IE) genes. Thomas EE, et al. **J Neurovirol** 1997 Jun;3(3):197–205

PREVENTION & CONTROL

Monoclonal antibodies to the distinct antigenic sites on glycoproteins C and B and their protective abilities in herpes simplex virus infection. Bystrická M, et al. **Acta Virol** 1997 Feb;41(1):5–12

Large scale comparison of adjuvant effects on immunogenicity and protection in a herpes simplex virus type 1 vaccination model. Simms JR, et al. **Biochem Soc Trans** 1997 May;25(2):272S

Vaginal formulations of carrageenan protect mice from herpes simplex virus infection. Zacharopoulos VR, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):465–8

Antiviral therapy for recurrent herpes simplex reconsidered. Wolf R, et al. **Dermatology** 1997;194(3):205–7

A retrospective study on the effectiveness of oral acyclovir to prevent herpes simplex recurrence in corneal grafts. van Rooij J, et al. **Eur J Ophthalmol** 1995 Oct-Dec;5(4):214–8

Prophylactic efficacy of traditional herbal medicines against recurrent herpes simplex virus type 1 infection from latently infected ganglia in mice. Kurokawa M, et al. **J Dermatol Sci** 1997 Jan;14(1):76–84

Acyclovir in pregnancy for primary prevention of neonatal herpes. Stiffman MN, et al. **J Fam Pract** 1997 Jan; 44(1):29–30

Protective immunity against herpes simplex virus (HSV) type 1 following oral administration of recombinant Salmonella typhimurium vaccine strains expressing HSV antigens. Karem KL, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):427–34

An outbreak of herpes rugbiorum managed by vaccination of players and sociosexual contacts. Skinner GR, et al. **J Infect** 1996 Nov;33(3):163–7

Enhancement of immune response to naked DNA vaccine by immunization with transfected dendritic cells. Manickan E, et al. **J Leukoc Biol** 1997 Feb;61(2):125–32

A Salmonella typhimurium htrA live vaccine expressing multiple copies of a peptide comprising amino acids 8–23 of herpes simplex virus glycoprotein D as a genetic fusion to tetanus toxin fragment C protects mice from herpes simplex virus infection. Chabalgoity JA, et al. **Mol Microbiol** 1996 Feb;19(4):791–801

Suppression of herpes simplex virus infections with oral lithium carbonate--a possible antiviral activity. Amsterdam JD, et al. **Pharmacotherapy** 1996 Nov-Dec;16(6):1070–5

Vaccination with a cocktail of seven recombinantly expressed HSV-1 glycoproteins protects against ocular HSV-1 challenge more efficiently than vaccination with any individual glycoprotein. Ghiasi H, et al. **Vaccine** 1996 Feb; 14(2):107–12

Induction of a protective immune response by mucosal vaccination with a DISC HSV-1 vaccine. McLean CS, et al. **Vaccine** 1996 Jul;14(10):987–92

Induction of protective immunity against herpes simplex virus with DNA encoding the immediate early protein ICP 27. Manickan E, et al. **Viral Immunol** 1995;8(2):53–61

Protection and therapy of experimental herpesvirus infections in mice with immunomodulating Propionibacterium avidum KP-40 and/or acyclovir. Kobus M, et al. **Zentralbl Bakteriol** 1997 Feb;285(3):445–9

[Prevention of herpes simplex and varicella zoster infections in patients of HIV infections] Caumes E, et al. **Ann Med Interne (Paris)** 1997;148(3):255–7 (25 ref.) (Eng. Abstr.) **(Fre)**

PSYCHOLOGY

Cognitive and psychiatric impairment in herpes simplex virus encephalitis suggest involvement of the amygdalo-frontal pathways. Caparros-Lefebvre D, et al. **J Neurol** 1996 Mar; 243(3):248–56

[Autobiographical memory loss following herpes encephalitis] Mimura M, et al. **No To Shinkei** 1997 Aug; 49(8):759–64 (Eng. Abstr.) **(Jpn)**

RADIONUCLIDE IMAGING

Dissociation of 99mTc-ECD and 99mTc-HMPAO distributions in herpes simplex encephalitis. Tohyama Y, et al. **Childs Nerv Syst** 1997 Jun;13(6):352–5

THERAPY

Management of herpes simplex virus type 1 pneumonia following liver transplantation. Liebau P, et al.

Infection 1996 Mar-Apr;24(2):130-5
Prophylactic efficacy of traditional herbal medicines against recurrent herpes simplex virus type 1 infection from latently infected ganglia in mice. Kurokawa M, et al. **J Dermatol Sci** 1997 Jan;14(1):76-84
The impact of psychological stress on the efficacy of anti-viral adoptive immunotherapy in an immunocompromised host. Bonneau RH, et al. **J Neuroimmunol** 1997 Sep;78(1-2):19-33
Augmentation of cell-mediated immunotherapy against herpes simplex virus by interleukins: comparison of in vivo effects of IL-2 and IL-7 on adoptively transferred T cells. Wiryana P, et al. **Vaccine** 1997 Apr;15(5):561-3
[Efficacy of herpetic vaccine, larifan, myelopid and their combinations during herpesvirus infection in irradiated animals] Alimbarova LM, et al. **Vopr Virusol** 1996 Nov-Dec;41(6):270-4 (Eng. Abstr.) **(Rus)**

TRANSMISSION

Aerosolization of infectious virus by excimer laser. Moreira LB, et al. **Am J Ophthalmol** 1997 Mar;123(3):297-302
Hand trauma and herpes infection. Starley IF, et al. **J Hand Surg [Br]** 1996 Oct;21(5):681-2
An outbreak of herpes rugbiorum managed by vaccination of players and sociosexual contacts. Skinner GR, et al. **J Infect** 1996 Nov;33(3):163-7

VETERINARY

Comparison of nested polymerase chain reaction, virus isolation, and fluorescent antibody testing for identifying feline herpesvirus in cats with conjunctivitis. Stiles J, et al. **Am J Vet Res** 1997 Aug;58(8):804-7
Isolation of a thymidine kinase-deficient bovine herpesvirus 2 that still causes disease. Handley A, et al. **Aust Vet J** 1996 Aug;74(2):158-9
Reactivation of caprine herpesvirus 1 in latently infected goats. Buonavoglia C, et al. **Comp Immunol Microbiol Infect Dis** 1996 Sep;19(4):275-81
Spontaneous herpes simplex virus infection in common marmosets (Callithrix jacchus). Juan-Sallés C, et al. **J Vet Diagn Invest** 1997 Jul;9(3):341-5
Detection of feline herpesvirus 1 DNA by the nested polymerase chain reaction. Hara M, et al. **Vet Microbiol** 1996 Feb;48(3-4):345-52
Naturally occurring herpes simplex encephalitis in a domestic rabbit (Oryctolagus cuniculus). Weissenböck H, et al. **Vet Pathol** 1997 Jan;34(1):44-7

VIROLOGY

Determination of the DNA target sequence of poorly reactivable strain HSZP of herpes simplex virus type 1 by polymerase chain reaction. Kúdelová M, et al. **Acta Virol** 1996 Feb;40(1):15-21
9-(4-Hydroxybutyl)-N2-phenylguanine (HBPG), a thymidine kinase inhibitor, suppresses herpes virus reactivation in mice. Gebhardt BM, et al. **Antiviral Res** 1996 May;30(2-3):87-94
Herpes simplex virus type I reactivation as a cause of a unilateral temporary paralysis of the vagus nerve. Bachor E, et al. **Eur Arch Otorhinolaryngol** 1996;253(4-5):297-300
Herpes virus infection of RPE and MDCK cells: polarity of infection. Topp KS, et al. **Exp Eye Res** 1997 Mar; 64(3):343-54
Correlation between herpes and Epstein-Barr viruses and acute myocardial infarction [letter] Liguori A, et al. **Int J Cardiol** 1996 Dec 6;57(2):185-6
Localization of latency-associated transcripts in the uterovaginal plexus of herpes simplex virus type 1 and 2 latently infected mice. Podlech J, et al. **J Gen Virol** 1997 May;78 (Pt 5):1103-8
Retention of herpes simplex virus DNA sequences in the nuclei of mouse footpad keratinocytes after recovery from primary infection. Simmons A, et al. **J Gen Virol** 1997 Apr; 78 (Pt 4):867-71
Application of the polymerase chain reaction to the diagnosis and management of neonatal herpes simplex virus disease. National Institute of Allergy and Infectious Diseases Collaborative Antiviral Study Group. Kimberlin DW, et al. **J Infect Dis** 1996 Dec;174(6):1162-7
Evaluation of a new general primer pair for rapid detection and differentiation of HSV-1, HSV-2, and VZV by polymerase chain reaction. Baron JM, et al. **J Med Virol** 1996 Aug;49(4):279-82
Detection of both herpes simplex and varicella-zoster viruses in cerebrospinal fluid from patients with encephalitis. Casas I, et al. **J Med Virol** 1996 Sep;50(1):82-92
Suitability and clinical application of a multiplex nested PCR assay for the diagnosis of herpes simplex virus infections. Cassinotti P, et al. **J Med Virol** 1996 Sep;50(1):75-81
HSV-1 and HSV-2 in herpes simplex encephalitis: a study of sixty-four cases in the United Kingdom. Dennett C, et al. **J Med Virol** 1997 Sep;53(1):1-3
Distribution of herpes simplex virus types 1 and 2 genomes in human spinal ganglia studied by PCR and in situ hybridization. Obara Y, et al. **J Med Virol** 1997 Jun; 52(2):136-42
Selective vulnerability of mouse CNS neurons to latent infection with a neuroattenuated herpes simplex virus-1. Kesari S, et al. **J Neurosci** 1996 Sep 15;16(18):5644-53
Neuronal sprouting in mouse sensory ganglia infected with herpes simplex virus type 2 (HSV-2): induction of growth-associated protein (GAP-43) and ultrastructural evidence [see comments] Henken DB, et al. **J Neurovirol** 1995 Jun;1(2):157-64. Comment in: J Neurovirol 1995 Jun;1(2):135-7.
Targeting and gene expression in spinal cord motor neurons following intramuscular inoculation of an HSV-1 vector. Keir SD, et al. **J Neurovirol** 1995 Sep;1(3-4):259-67
Attempted modulation of herpes simplex virus (HSV) infection of neurons in culture by fibroblast growth factor. Kennedy PG, et al. **J Neurovirol** 1995 Dec;1(5-6):399-404
Herpes simplex virus latent infection in the nervous system. Steiner I, et al. **J Neurovirol** 1995 Mar;1(1):19-29 (100 ref.)
The transneuronal spread phenotype of herpes simplex virus type 1 infection of the mouse hind footpad. Engel JP, et al. **J Virol** 1997 Mar;71(3):2425-35
The abundant latency-associated transcripts of herpes simplex virus type 1 are bound to polyribosomes in cultured neuronal cells and during latent infection in mouse trigeminal ganglia. Goldenberg D, et al. **J Virol** 1997 Apr; 71(4):2897-904
Mechanisms of herpes simplex virus type 1 reactivation. Halford WP, et al. **J Virol** 1996 Aug;70(8):5051-60
In vivo epinephrine reactivation of ocular herpes simplex virus type 1 in the rabbit is correlated to a 370-base-pair region located between the promoter and the 5' end of the 2.0 kilobase latency-associated transcript. Hill JM, et al. **J Virol** 1996 Oct;70(10):7270-4
Association of herpes simplex virus regulatory protein ICP22 with transcriptional complexes containing EAP, ICP4, RNA polymerase II, and viral DNA requires posttranslational modification by the U(L)13 proteinkinase. Leopardi R, et al. **J Virol** 1997 Feb;71(2):1133-9
The range and distribution of murine central nervous system cells infected with the gamma(1)34.5- mutant of herpes simplex virus 1. Markovitz NS, et al. **J Virol** 1997 Jul; 71(7):5560-9
Herpes simplex virus gene expression in neurons: viral DNA synthesis is a critical regulatory event in the branch point between the lytic and latent pathways. Nichol PF, et al. **J Virol** 1996 Aug;70(8):5476-86
Herpes simplex virus type 1 protein IE63 affects the nuclear export of virus intron-containing transcripts. Phelan A, et al. **J Virol** 1996 Aug;70(8):5255-65
Nuclear sites of herpes simplex virus type 1 DNA replication and transcription colocalize at early times postinfection and are largely distinct from RNA processing factors. Phelan A, et al. **J Virol** 1997 Feb;71(2):1124-32
cis-acting elements involved in transcriptional regulation of the herpes simplex virus type 1 latency-associated promoter 1 (LAP1) in vitro and in vivo. Soares K, et al. **J Virol** 1996 Aug;70(8):5384-94
Analysis of conserved domains of UL41 of herpes simplex virus type 1 in virion host shutoff and pathogenesis. Strelow LI, et al. **J Virol** 1996 Aug;70(8):5665-7
Overexpression of the herpes simplex virus type 1 immediate-early regulatory protein, ICP27, is responsible for the aberrant localization of ICP0 and mutant forms of ICP4 in ICP4 mutant virus-infected cells. Zhu Z, et al. **J Virol** 1996 Aug;70(8):5346-56
Detection of herpes simplex virus DNA in cerebrospinal fluid samples using the polymerase chain reaction and microplate hybridization. Vesanen M, et al. **J Virol Methods** 1996 May; 59(1-2):1-11
Effects of nerve growth factor and phorbol derivative on reactivation of herpes simplex virus type 1 in cultured cells of latently infected adult mouse trigeminal ganglia. Kimura S. **Microbiol Immunol** 1996;40(9):645-50
Pathogenicity of glycoprotein C-deficient herpes simplex virus 1 strain TN-1 which encodes truncated glycoprotein C. Minagawa H, et al. **Microbiol Immunol** 1997; 41(7):545-51
Postpartum endometritis caused by herpes simplex virus. Hollier LM, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):836-8
[Herpetic infection] Briazzhikova TS, et al. **Klin Med (Mosk)** 1996;74(7):7-9 (36 ref.) **(Rus)**
[Herpetic laryngeal involvement simulating neoplasm] Ferrandis Perepérez E, et al. **Acta Otorrinolaringol Esp** 1997 Jan-Feb;48(1):69-71 (Eng. Abstr.) **(Spa)**

HERPES SIMPLEX, GENITAL see **HERPES GENITALIS**

HERPES SIMPLEX KERATITIS see **KERATITIS, HERPETIC**

HERPES SIMPLEX, LABIAL see **HERPES LABIALIS**

HERPES SIMPLEX, OCULAR see **KERATITIS, HERPETIC**

HERPES SIMPLEX, ORAL see **STOMATITIS, HERPETIC**

HERPES SIMPLEX VIRUS see **SIMPLEXVIRUS**

HERPES SIMPLEX VIRUS PROTEIN VMW65

ANALYSIS

Detection of mouse skeletal muscle-specific product, which includes ZF5 zinc fingers and a VP16 acidic domain, by reverse transcriptase PCR. Numoto M, et al. **Biochem Biophys Res Commun** 1997 Jul 9;236(1):20-5

BIOSYNTHESIS

VP16-activation of the C. elegans neural specification transcription factor UNC-86 suppresses mutations in downstream genes and causes defects in neural migration and axon outgrowth. Sze JY, et al. **Development** 1997 Mar; 124(6):1159-68

CHEMISTRY

Interdigitated residues within a small region of VP16 interact with Oct-1, HCF, and DNA. Lai JS, et al. **Mol Cell Biol** 1997 Jul;17(7):3937-46
Induced alpha helix in the VP16 activation domain upon binding to a human TAF. Uesugi M, et al. **Science** 1997 Aug 29;277(5330):1310-3

GENETICS

Target gene identification: target specific transcriptional activation by three murine homeodomain/VP16 hybrid proteins in Saccharomyces cerevisiae. Friedman-Einat M, et al. **J Exp Zool** 1996 Feb 15;274(3):145-56
Extensive mutagenesis of a transcriptional activation domain identifies single hydrophobic and acidic amino acids important for activation in vivo. Sainz MB, et al. **Mol Cell Biol** 1997 Jan;17(1):115-22

ISOLATION & PURIFICATION

Biochemical mechanism of transcriptional activation by GAL4-VP16. Tantin D, et al. **Methods Enzymol** 1996; 274:133-49

METABOLISM

Developmental acquisition of enhancer function requires a unique coactivator activity. Majumder S, et al. **EMBO J** 1997 Apr 1;16(7):1721-31
A single serine residue at position 375 of VP16 is critical for complex assembly with Oct-1 and HCF and is a target of phosphorylation by casein kinase II. O'Reilly D, et al. **EMBO J** 1997 May 1;16(9):2420-30
Analysis of conserved domains of UL41 of herpes simplex virus type 1 in virion host shutoff and pathogenesis. Strelow LI, et al. **J Virol** 1996 Aug;70(8):5665-7
Interaction between acidic transcriptional activation domains of herpes simplex virus activator protein VP16 and transcriptional initiation factor IID. Greenblatt J, et al. **Methods Enzymol** 1996;274:120-33
Biochemical mechanism of transcriptional activation by GAL4-VP16. Tantin D, et al. **Methods Enzymol** 1996; 274:133-49
Luman, a new member of the CREB/ATF family, binds to herpes simplex virus VP16-associated host cellular factor. Lu R, et al. **Mol Cell Biol** 1997 Sep;17(9):5117-26
VP16 targets an amino-terminal domain of HCF involved in cell cycle progression. Wilson AC, et al. **Mol Cell Biol** 1997 Oct;17(10):6139-46
Viral transactivators E1A and VP16 interact with a large complex that is associated with CTD kinase activity and contains CDK8. Gold MO, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3771-7
Drosophila TAF(II)230 and the transcriptional activator VP16 bind competitively to the TATA box-binding domain of the TATA box-binding protein. Nishikawa J, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):85-90
Induced alpha helix in the VP16 activation domain upon binding to a human TAF. Uesugi M, et al. **Science** 1997 Aug 29;277(5330):1310-3
Structural and antigenic identification of the ORF12 protein (alpha TIF) of equine herpesvirus 1. Lewis JB, et al. **Virology** 1997 Apr 14;230(2):369-75

PHYSIOLOGY

A single-point mutation in HCF causes temperature-sensitive cell-cycle arrest and disrupts VP16 function. Goto H, et al. **Genes Dev** 1997 Mar 15;11(6):726-37
The VP16 paradox: herpes simplex virus VP16 contains a long-range activation domain but within the natural multiprotein complex activates only from promoter-proximal positions. Hagmann M, et al. **J Virol** 1997 Aug;71(8):5952-62
Protein interactions in the herpes simplex virus type 1 VP16-induced complex: VP16 peptide inhibition and mutational analysis of host cell factor requirements. Simmen KA, et al. **J Virol** 1997 May;71(5):3886-94
Truncation of the C-terminal acidic transcriptional activation domain of herpes simplex virus VP16 produces a phenotype similar to that of the in1814 linker insertion mutation. Smiley JR, et al. **J Virol** 1997 Aug;71(8):6191-3

HERPES SIMPLEX VIRUS PROTEIN VP16 see **HERPES SIMPLEX VIRUS PROTEIN VMW65**

HERPES SIMPLEX VIRUS TRANSCRIPTIONAL ACTIVATOR VMW65 see **HERPES SIMPLEX VIRUS PROTEIN VMW65**

HERPES SIMPLEX VIRUS 1 see **HERPESVIRUS 1, HUMAN**

HERPES SIMPLEX VIRUS 2 see **HERPESVIRUS 2, HUMAN**

HERPES ZOSTER

Disciform keratitis: a case of herpes zoster sine herpete. Silverstein BE, et al. **Am J Ophthalmol** 1997 Feb; 123(2):254–5

Viral folliculitis. Atypical presentations of herpes simplex, herpes zoster, and molluscum contagiosum [see comments] Weinberg JM, et al. **Arch Dermatol** 1997 Aug;133(8):983–6 . Comment in: Arch Dermatol 1997 Aug;133(8):1039–41.

Segmental zoster paresis of limbs. Merchut MP, et al. **Electromyogr Clin Neurophysiol** 1996 Sep;36(6):369–75 (21 ref.)

Guillain–Barré syndrome associated with varicella–zoster infection [letter] da Rosa–Santos OL, et al. **Int J Dermatol** 1996 Aug;35(8):603–4

Herpes zoster encephalomyelitis associated with low dose methotrexate for rheumatoid arthritis. Lyon CC, et al. **J Rheumatol** 1997 Mar;24(3):589–91

Herpes zoster in childhood: case report and review of the literature. Smith CG, et al. **Pediatr Dermatol** 1996 May–Jun;13(3):226–9

Herpes zoster—results from a questionnaire–based surveillance of patients and their general practitioners [letter] Schoub BD, et al. **S Afr Med J** 1996 Dec; 86(12):1562–3

The Swedish telephone herpes helpline. Hallén A, et al. **Scand J Infect Dis Suppl** 1996;100:33–4

Varicella–zoster virus: overview and clinical manifestations. Arvin AM. **Semin Dermatol** 1996 Jun;15(2 Suppl 1):4–7 (14 ref.)

Management of herpes simplex and varicella–zoster virus infections. Erlich KS. **West J Med** 1997 Mar;166(3):211–5 (43 ref.)

COMPLICATIONS

Four years' treatment with ketamine and a trial of dextromethorphan in a patient with severe post–herpetic neuralgia [see comments] Klepstad P, et al. **Acta Anaesthesiol Scand** 1997 Mar;41(3):422–6. Comment in: Acta Anaesthesiol Scand 1997 Mar;41(3):329–31.

Progressive outer retinal necrosis in an immunocompetent patient. Carrillo–Pacheco S, et al. **Acta Ophthalmol Scand** 1996 Oct;74(5):506–8

A nasal septum perforation caused by a Varicella zoster infection in an AIDS patient. Colebunders R, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):49–50

Does prior infection with varicella–zoster virus influence risk of adult glioma? Wrensch M, et al. **Am J Epidemiol** 1997 Apr 1;145(7):594–7

The potential impact of the varicella vaccine and new antivirals on ocular disease related to varicella–zoster virus. Pepose JS. **Am J Ophthalmol** 1997 Feb;123(2):243–51 (75 ref.)

Epidural morphine and postherpetic neuralgia [letter; comment] Mayne CC, et al. **Anaesthesia** 1996 Dec; 51(12):1190. Comment on: Anaesthesia 1996 Jul;51(7):647–51.

Stellate ganglion block improved loss of visual acuity caused by retrobulbar optic neuritis after herpes zoster. Mori T, et al. **Anesth Analg** 1997 Oct;85(4):870–1

Risk factors for postherpetic neuralgia [see comments] Choo PW, et al. **Arch Intern Med** 1997 Jun 9;157(11):1217–24. Comment in: Arch Intern Med 1997 Jun 9;157(11):1166–7.

The sequelae of herpes zoster [see comments] Galil K, et al. **Arch Intern Med** 1997 Jun 9;157(11):1209–13. Comment in: Arch Intern Med 1997 Jun 9;157(11):1166–7.

The effect of treating herpes zoster with oral acyclovir in preventing postherpetic neuralgia. A meta–analysis. Jackson JL, et al. **Arch Intern Med** 1997 Apr 28; 157(8):909–12

Leukaemia cutis at the site of prior herpes zoster [letter; comment] Bahadoran P, et al. **Br J Dermatol** 1997 Mar; 136(3):465. Comment on: Br J Dermatol 1996 Mar;134(3):504–9.

Leishmania infection occurring in herpes zoster lesions in an HIV positive patient [letter; comment] Del Giudice P. **Br J Dermatol** 1996 Dec;135(6):1005–6. Comment on: Br J Dermatol 1996 Jan;134(1):164–6.

Isotopic response [letter; comment] Wolf R, et al. **Br J Dermatol** 1997 Mar;136(3):466–7. Comment on: Br J Dermatol 1996 Mar;134(3):504–9. Comment on: Br J Dermatol 1996 Mar;134(3):606.

Association of progressive outer retinal necrosis and varicella zoster encephalitis in a patient with AIDS. van den Horn GJ, et al. **Br J Ophthalmol** 1996 Nov;80(11):982–5

Introduction—postherpetic neuralgia: a treatment dilemma [comment] Elliott KJ. **Cancer Invest** 1997;15(2):163–4. Comment on: Cancer Invest 1997 ;15(2):165–76.

Postherpetic neuralgia: a review [see comments] Hanania MM, et al. **Cancer Invest** 1997;15(2):165–76 (195 ref.). Comment in: Cancer Invest 1997 ;15(2):163–4.

Acute colonic pseudo–obstruction associated with varicella zoster infection and acyclovir therapy. Herath P, et al. **Ceylon Med J** 1997 Mar;42(1):36–7

Dermatophytosis in healing herpes zoster lesions. Ferahbas A, et al. **Cutis** 1997 Jul;60(1):51–2

Herpes zoster and postherpetic neuralgia. Optimal treatment. Johnson RW. **Drugs Aging** 1997 Feb;10(2):80–94 (111 ref.)

Syndrome of inappropriate secretion of antidiuretic hormone in elderly patients with rheumatoid arthritis associated with infections: report of two cases. Furuta E, et al. **Intern Med** 1996 Jun;35(6):478–81

Acquired reactive perforating collagenosis: unilateral umbilicated papules along the lesions of herpes zoster. Bang SW, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 1):778–9

Myocarditis in herpes zoster. Chauhan R, et al. **J Assoc Physicians India** 1996 Jun;44(6):427–8

Herpetic syringitis associated with eccrine squamous syringometaplasia in HIV–positive patients. Muñoz E, et al. **J Cutan Pathol** 1997 Aug;24(7):425–8

Milia arising in herpes zoster scars. Lee WS, et al. **J Dermatol** 1996 Aug;23(8):556–8 (10 ref.)

A case of herpes zoster associated with colitis. Okimura H, et al. **J Dermatol** 1996 Sep;23(9):631–4 (6 ref.)

Treatments for postherpetic neuralgia. Chasuk R. **J Fam Pract** 1997 Sep;45(3):203–4

Bilateral facial palsy secondary to herpes zoster meningoencephalitis in a HIV–positive woman. Mahadeen ZI, et al. **J Infect** 1997 May;34(3):261–2

Recurrent herpes zoster myelitis. Baik JS, et al. **J Korean Med Sci** 1997 Aug;12(4):360–3

Postherpetic neuralgia and its treatment: a retrospective survey of 191 patients. Bowsher D. **J Pain Symptom Manage** 1996 Nov;12(5):290–9

The effects of pre–emptive treatment of postherpetic neuralgia with amitriptyline: a randomized, double–blind, placebo–controlled trial. Bowsher D. **J Pain Symptom Manage** 1997 Jun;13(6):327–31

Postherpetic neuralgia: treatment reminder [letter] Hargus EP, et al. **J Pain Symptom Manage** 1996 Sep;12(3):149

Abrupt spontaneous remission of postherpetic neuralgia after coma [letter] Ng KF, et al. **J Pain Symptom Manage** 1997 Sep;14(3):134–5

Horner's syndrome due to herpes zoster in the T3–T4 dermatome. Poole TR, et al. **J R Soc Med** 1997 Jul; 90(7):395–6

Herpes zoster myelitis occurring during treatment for systemic lupus erythematosus. Ebo DG, et al. **J Rheumatol** 1996 Mar;23(3):548–50

A case of zoster in the 2nd and 3rd branches of the trigeminal nerve associated with simultaneous herpes labialis infection—a case report. Terasaki S, et al. **Kurume Med J** 1997;44(1):61–6

Painful neuropathy after diffuse herpes zoster. Mondelli M, et al. **Muscle Nerve** 1997 Feb;20(2):229–31

Treatment of postherpetic neuralgia [letter; comment] Rösler A, et al. **N Engl J Med** 1996 Dec 5;335(23):1769; discussion 1769. Comment on: N Engl J Med 1996 Jul 4;335(1):32–42.

Treatment of postherpetic neuralgia [letter; comment] Zenz T, et al. **N Engl J Med** 1996 Dec 5;335(23):1768–9; discussion 1769. Comment on: N Engl J Med 1996 Jul 4;335(1):32–42.

Cutaneous innervation density in the allodynic form of postherpetic neuralgia. Rowbotham MC, et al. **Neurobiol Dis** 1996;3(3):205–14

Magnetic resonance imaging in a patient with segmental zoster paresis. Hanakawa T, et al. **Neurology** 1997 Aug; 49(2):631–2

Gabapentin as a novel treatment for postherpetic neuralgia. Segal AZ, et al. **Neurology** 1996 Apr;46(4):1175–6

Herpes zoster related lumbar radiculopathy. Shapiro M. **Orthopedics** 1996 Nov;19(11):976–7

Effect of adrenergic receptor activation on post–herpetic neuralgia pain and sensory disturbances. Choi B, et al. **Pain** 1997 Jan;69(1–2):55–63

Topical aspirin/diethyl ether mixture versus indomethacin and diclofenac/diethyl ether mixtures for acute herpetic neuralgia and postherpetic neuralgia: a double–blind crossover placebo–controlled study [see comments] De Benedittis G, et al. **Pain** 1996 Apr;65(1):45–51. Comment in: Pain 1997 Apr;70(2–3):287–9.

Severity of skin lesions of herpes zoster at the worst phase rather than age and involved region most influences the duration of acute herpetic pain. Higa K, et al. **Pain** 1997 Feb;69(3):245–53

Lidocaine patch: double–blind controlled study of a new treatment method for post–herpetic neuralgia. Rowbotham MC, et al. **Pain** 1996 Apr;65(1):39–44

Acute glomerulonephritis with zoster [letter] Rossetti A, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):643–4 (4 ref.)

Postherpetic neuralgia: response to topical clonidine. Abadir AR, et al. **Proc West Pharmacol Soc** 1996;39:47–8

Hemidiaphragmatic paralysis caused by cervical herpes zoster. Soler JJ, et al. **Respiration** 1996;63(6):403–6

Neurological complications in herpes zoster. Flamholc L. **Scand J Infect Dis Suppl** 1996;100:35–40 (47 ref.)

How to measure and reduce the burden of zoster–associated pain. Wood MJ. **Scand J Infect Dis Suppl** 1996;100:55–8 (18 ref.)

Epidemiology and management of postherpetic neuralgia. Gershon AA. **Semin Dermatol** 1996 Jun;15(2 Suppl 1):8–13 (33 ref.)

Is the syndrome of inappropriate secretion of antidiuretic hormone responsible for hyponatremia in a patient with herpes varicella zoster virus? [letter] Calenda E, et al. **South Med J** 1996 Dec;89(12):1224

[Treatment of post–herpes zoster pain with tramadol. Results of an open pilot study versus clomipramine with or without levomepromazine] Göbel H, et al. **Drugs** 1997;53 Suppl 2:34–9 (Eng. Abstr.) **(Fre)**

[Antecubital herpes zoster in AIDS (letter)] Loembe PM, et al. **Med Trop (Mars)** 1997;57(2):207–8 **(Fre)**

[Pneumonia caused by varicella–zoster virus in a patient with rheumatoid arthritis] Nakamura M, et al. **Nippon Kyobu Shikkan Gakkai Zasshi** 1996 May; 34(5):610–5 (Eng. Abstr.) **(Jpn)**

[A case of diaphragmatic paralysis following herpes zoster] Fujimoto S, et al. **Rinsho Shinkeigaku** 1996 Feb;36(2):345–7 (Eng. Abstr.) **(Jpn)**

[Polyradiculitis and cutaneous herpes zoster (letter)] Sánchez Ayuso FJ, et al. **An Med Interna** 1995 Aug;12(8):410–1 **(Spa)**

[Meningoencephalitis and pancreatitis caused by the varicella virus, herpes zoster (letter; comment)] Pascual–Velasco F. **Enferm Infecc Microbiol Clin** 1996 Jun–Jul;14(6):396–7. Comment on: Enferm Infecc Microbiol Clin 1995 Jan;13(1):6–11. **(Spa)**

CONGENITAL

Congenitally acquired herpes zoster infection in a newborn. Mogami S, et al. **Dermatology** 1997;194(3):276–7

DIAGNOSIS

Primary varicella–zoster keratitis: diagnosis by polymerase chain reaction. Power WJ, et al. **Am J Ophthalmol** 1997 Feb;123(2):252–4

A polymerase chain reaction–based assay for diagnosing varicella–zoster virus retinitis in patients with acquired immunodeficiency syndrome. Short GA, et al. **Am J Ophthalmol** 1997 Feb;123(2):157–64

Diagnosing varicella zoster virus infection [letter] Bryden AS. **Br J Biomed Sci** 1997 Mar;54(1):72–3

Cytological diagnosis of zosteriform skin metastases in undiagnosed breast carcinoma [letter] Heckmann M, et al. **Br J Dermatol** 1996 Sep;135(3):502–3

Routine detection of herpes simplex virus and varicella zoster virus by polymerase chain reaction reveals that initial herpes zoster is frequently misdiagnosed as herpes simplex. Rübben A, et al. **Br J Dermatol** 1997 Aug;137(2):259–61

A comparative study of the polymerase chain reaction and local antibody production in acute retinal necrosis syndrome and cytomegalovirus retinitis. Abe T, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Jul;234(7):419–24

Expanding zoster's differential diagnosis [letter; comment] Kahn CB. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):42. Comment on: Hosp Pract (Off Ed) 1996 Jul 15;31(7):137–44.

Disseminated herpes zoster in the elderly. O'Toole EA, et al. **Ir J Med Sci** 1997 Jul–Sep;166(3):141–2

Chronic varicella zoster infection mimicking a basal cell carcinoma in an AIDS patient. Tsao H, et al. **J Am Acad Dermatol** 1997 May;36(5 Pt 2):831–3

Antigen detection: the method of choice in comparison with virus isolation and serology for laboratory diagnosis of herpes zoster in human immunodeficiency virus–infected patients. Dahl H, et al. **J Clin Microbiol** 1997 Feb; 35(2):347–9

Detection of latent varicella–zoster virus infection in human vestibular and spiral ganglia. Furuta Y, et al. **J Med Virol** 1997 Mar;51(3):214–6

Detection of varicella–zoster virus DNA in patients with acute peripheral facial palsy by the polymerase chain reaction, and its use for early diagnosis of zoster sine herpete. Furuta Y, et al. **J Med Virol** 1997 Jul;52(3):316–9

Another case of virologically confirmed zoster sine herpete, with electrophysiologic correlation. Amlie–Lefond C, et al. **J Neurovirol** 1996 Apr;2(2):136–8

Cranial polyneuropathy—Ramsay Hunt's syndrome: case report and discussion. Turner JE, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Mar;83(3):354–7

Laryngeal zoster with unilateral laryngeal paralysis. Nishizaki K, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Jul–Aug; 59(4):235–7

Perianal herpes zoster presenting as suspected child abuse. Christian CW, et al. **Pediatrics** 1997 Apr;99(4):608–10

Prenatal diagnosis of congenital varicella infection. Kustermann A, et al. **Prenat Diagn** 1996 Jan;16(1):71–4

Polymerase chain reaction for diagnosis of varicella zoster virus central nervous system infections without skin manifestations. Bergström T. **Scand J Infect Dis Suppl** 1996; 100:41–5

Latency and reactivation of varicella zoster virus infections. Dueland AN. **Scand J Infect Dis Suppl** 1996;100:46–50 (34 ref.)

[Painful skin eruptions precedes prolonged pain in herpes zoster. Four cases from general practice and a review] Kardel T. **Ugeskr Laeger** 1996 Oct 28;158(44):6282–4 (Eng. Abstr.) **(Dan)**

[Recurrent varicella and HIV infection. Apropos of 10 cases seen in Lomé] Pitche P, et al. **Med Trop (Mars)** 1997; 57(1):65–7 (Eng. Abstr.) **(Fre)**

[Zoster. The manifestation forms in the skin, complications and therapy] Gross G. **Dtsch Med Wochenschr** 1997 Jan 31;122(5):132–9 (50 ref.) **(Ger)**

[Herpes zoster: follow–up, complications and therapy] Straube A, et al. **Nervenarzt** 1996 Aug;67(8):623–9 (51 ref.) (Eng. Abstr.) **(Ger)**

[Herpes zoster—clinical aspects] Wnuk A, et al. **Pol Tyg Lek** 1996 Jun;51(23–26):321–3 (Eng. Abstr.) **(Pol)**

[Verrucous herpes zoster in AIDS patients] Agusto V, et

al. **Acta Med Port** 1997 Jun-Jul;10(6-7):497-501 (20 ref.) (Eng. Abstr.) **(Por)**

[The Guillain-Barré syndrome in herpes zoster patients] Shishov AS, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(2):26-9 (21 ref.) (Eng. Abstr.) **(Rus)**

[Diagnosis of infections caused by varicella zoster virus (letter)] Barraquer P, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):277-8 **(Spa)**

DRUG THERAPY

Famciclovir in AIDS-related acute retinal necrosis [letter; comment] Klein JL, et al. **AIDS** 1996 Sep;10(11):1300-1. Comment on: AIDS 1996 Jan;10(1):55-60.

Acyclovir plus steroids for herpes zoster [letter; comment] Atkins CD. **Ann Intern Med** 1997 May 15;126(10):831; discussion 832. Comment on: Ann Intern Med 1996 Sep 1;125(5):376-83.

Acyclovir plus steroids for herpes zoster [letter; comment] Carson MP. **Ann Intern Med** 1997 May 15;126(10):831-2 . Comment on: Ann Intern Med 1996 Sep 1;125(5):376-83.

Acyclovir plus steroids for herpes zoster [letter; comment] Herbert DA. **Ann Intern Med** 1997 May 15;126(10):831; discussion 832. Comment on: Ann Intern Med 1996 Sep 1;125(5):376-83.

Famciclovir: review of clinical efficacy and safety. Cirelli R, et al. **Antiviral Res** 1996 Mar;29(2-3):141-51 (54 ref.)

Assessment of pain in herpes zoster: lessons learned from antiviral trials. Dworkin RH, et al. **Antiviral Res** 1997 Jan; 33(2):73-85 (43 ref.)

The effect of treating herpes zoster with oral acyclovir in preventing postherpetic neuralgia. A meta-analysis. Jackson JL, et al. **Arch Intern Med** 1997 Apr 28; 157(8):909-12

Management issues in herpes zoster. Dwyer DE. **Aust Fam Physician** 1996 Mar;25(3):299-307 (14 ref.)

Management of varicella zoster virus retinitis in AIDS. Moorthy RS, et al. **Br J Ophthalmol** 1997 Mar;81(3):189-94

Neuropsychiatric toxicity in a patient undergoing hemodialysis and receiving treatment with oral acyclovir. Collins A, et al. **Clin Infect Dis** 1996 Jan;22(1):187-8

Oral acyclovir therapy accelerates pain resolution in patients with herpes zoster: a meta-analysis of placebo-controlled trials. Wood MJ, et al. **Clin Infect Dis** 1996 Feb;22(2):341-7

Advances and controversies in the antiviral therapy of herpes zoster [editorial] Cunningham AL, et al. **Eur J Clin Microbiol Infect Dis** 1996 Apr;15(4):273-5

Effects of acyclovir on sensory axonal neuropathy, segmental motor paresis and postherpetic neuralgia in herpes zoster patients. Mondelli M, et al. **Eur Neurol** 1996;36(5):288-92

Herpes zoster: treatment with Clinacanthus nutans cream. Charuwichitratana S, et al. **Int J Dermatol** 1996 Sep; 35(9):665-6

Cost-benefit of oral acyclovir in the treatment of herpes zoster. Kubeyinje EP. **Int J Dermatol** 1997 Jun;36(6):457-9

Antiviral efficacies of famciclovir, valaciclovir, and brivudin in disseminated herpes simplex virus type 1 infection in mice. Wutzler P, et al. **Intervirology** 1997;40(1):15-21

Treatment of herpes simplex & varicella zoster infection [editorial] Barrg C, et al. **Ir Med J** 1996 Jul-Aug; 89(4):132-4 (8 ref.)

Multiple dose netivudine, a potent anti-varicella zoster virus agent, in healthy elderly volunteers and patients with shingles. Peck RW, et al. **J Antimicrob Chemother** 1996 Mar;37(3):583-97

Zoster myelitis and its response to Acyclovir. Sharma R, et al. **J Assoc Physicians India** 1996 Mar;44(3):220-1

Acyclovir or prednisone for treating herpes zoster. Becker LA, et al. **J Fam Pract** 1996 Dec;43(6):539-40

Evaluation of sorivudine (BV-araU) versus acyclovir in the treatment of acute localized herpes zoster in human immunodeficiency virus-infected adults. The Multinational Sorivudine Study Group. Bodsworth NJ, et al. **J Infect Dis** 1997 Jul;176(1):103-11

Effect of acyclovir and prednisolone on the serological response in herpes zoster. Bates CJ, et al. **J Med Virol** 1996 Nov;50(3):244-8

Contempo 1997: dermatology [letter] Marks L, et al. **JAMA** 1997 Oct 8;278(14):1148; discussion 1149

Zoster myelitis: improvement with antiviral therapy in two cases. de Silva SM, et al. **Neurology** 1996 Oct;47(4):929-31

Antiviral drugs in development for herpes zoster. Fiddian AP. **Scand J Infect Dis Suppl** 1996;100:51-4 (17 ref.)

Efficacy of famciclovir in the treatment of herpes zoster. Tyring SK. **Semin Dermatol** 1996 Jun;15(2 Suppl 1):27-31 (23 ref.)

[A patient with thyroid carcinoma who developed consciousness disturbance during acyclovir administration for herpes zoster] Matsumoto R, et al. **Rinsho Shinkeigaku** 1996 Apr;36(4):590-3 (Eng. Abstr.) **(Jpn)**

[Efficacy of cimetidine in treatment of Herpes zoster in the first 5 days from the moment of disease manifestation] Kapińska-Mrowiecka M, et al. **Pol Tyg Lek** 1996 Jun; 51(23-26):338-9 (Eng. Abstr.) **(Pol)**

[Interferon alpha 2b in pain caused by herpes zoster. Preliminary report] Montero Mora P, et al. **Rev Alerg Mex** 1996 Nov-Dec;43(6):148-51 (Eng. Abstr.) **(Spa)**

ECONOMICS

Comparison of valaciclovir and acyclovir for the treatment of herpes zoster in immunocompetent patients over 50 years of age: a cost-consequence model. Grant DM, et al. **Pharmacotherapy** 1997 Mar-Apr;17(2):333-41

ENZYMOLOGY

The effect of sorivudine on dihydropyrimidine dehydrogenase activity in patients with acute herpes zoster. Yan J, et al. **Clin Pharmacol Ther** 1997 May;61(5):563-73

Alterations in mast cell proteinases and protease inhibitors in the progress of cutaneous herpes zoster infection. Kaminska R, et al. **J Pathol** 1996 Dec;180(4):434-40

EPIDEMIOLOGY

Higher herpes zoster infection frequency in right-handed patients and more frequent appearance in the left body side of females [letter] Ertunç V, et al. **Acta Derm Venereol** 1997 May;77(3):245

Postherpetic neuralgia. Predicting and preventing risk [editorial; comment] Kost RG, et al. **Arch Intern Med** 1997 Jun 9;157(11):1166-7. Comment on: Arch Intern Med 1997 Jun 9;157(11):1209-13. Comment on: Arch Intern Med 1997 Jun 9;157(11):1217-24.

Epidemic zoster and AIDS [letter] Morens DM, et al. **Emerg Infect Dis** 1996 Oct-Dec;2(4):361-2

The epidemiology of varicella-zoster virus infections. Wharton M. **Infect Dis Clin North Am** 1996 Sep; 10(3):571-81 (40 ref.)

Herpes zoster infection after bone marrow transplantation in children. Kawasaki H, et al. **J Pediatr** 1996 Mar; 128(3):353-6

Varicella zoster in a transplant program: experience with 15 cases and 70 contacts. Zayas E, et al. **Transplant Proc** 1996 Dec;28(6):3296-7

[Epidemiology of varicella zoster infection. Results of a prospective study in the Ansbach area] Paul E, et al. **Hautarzt** 1996 Aug;47(8):604-9 (Eng. Abstr.) **(Ger)**

ETHNOLOGY

Common infectious diseases in a population with low multiple sclerosis and varicella occurrence. Ross RT, et al. **J Clin Epidemiol** 1997 Mar;50(3):337-9

ETIOLOGY

Varicella-zoster virus. Arvin AM. **Clin Microbiol Rev** 1996 Jul;9(3):361-81 (269 ref.)

Herpes zoster in a 3-month-old infant [letter] Handa S. **Pediatr Dermatol** 1997 Jul-Aug;14(4):333

[Herpes simplex virus and varicella-zoster virus infections in HIV-infected patients] Leport C, et al. **Presse Med** 1997 Jan;26 Suppl 1:10-2 (19 ref.) **(Fre)**

IMMUNOLOGY

Varicella-zoster virus: aspects of pathogenesis and host response to natural infection and varicella vaccine. Arvin AM, et al. **Adv Virus Res** 1996;46:263-309 (75 ref.)

Varicella zoster antibodies after herpes zoster, varicella and multiple sclerosis. Ross RT, et al. **Can J Neurol Sci** 1997 May;24(2):137-9

Human herpes viruses latent infection in the nervous system. Steiner I. **Immunol Rev** 1996 Aug;152:157-73 (110 ref.)

Conversion of the CD4+ T cell profile from T(H2)-dominant type to T(H1)-dominant type after varicella-zoster virus infection in atopic dermatitis. Fujimura T, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):274-82

Mo2+ HLA-DR- monocytosis in varicella zoster virus infection. Horiuchi Y. **J Dermatol** 1997 Mar;24(3):205-7

Recognition of the latency-associated immediate early protein IE63 of varicella-zoster virus by human memory T lymphocytes. Sadzot-Delvaux C, et al. **J Immunol** 1997 Sep 15;159(6):2802-6

METABOLISM

Conversion of the CD4+ T cell profile from T(H2)-dominant type to T(H1)-dominant type after varicella-zoster virus infection in atopic dermatitis. Fujimura T, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):274-82

PATHOLOGY

Higher herpes zoster infection frequency in right-handed patients and more frequent appearance in the left body side of females [letter] Ertunç V, et al. **Acta Derm Venereol** 1997 May;77(3):245

Spinal nerves are most commonly involved in herpes zoster [letter] Monz W. **Aust Fam Physician** 1996 May;25(5):798

Neocortical temporal lobe sclerosis masquerading as Alzheimer dementia: does herpes virus encephalopathy protect against Alzheimer's disease? Ball MJ, et al. **Clin Neuropathol** 1997 Jan-Feb;16(1):1-12

Herpes zoster brachial plexus neuritis. Fabian VA, et al. **Clin Neuropathol** 1997 Mar-Apr;16(2):61-4

The patterns of varicella zoster virus encephalitis. Kleinschmidt-DeMasters BK, et al. **Hum Pathol** 1996 Sep; 27(9):927-38

Dermatomal lichenoid chronic graft-vs-host disease following varicella-zoster infection despite absence of viral genome. Baselga E, et al. **J Cutan Pathol** 1996 Dec; 23(6):576-81

Chronic varicella-zoster virus skin lesions in patients with human immunodeficiency virus are related to decreased expression of gE and gB. Nikkels AF, et al. **J Infect Dis** 1997 Jul;176(1):261-4

Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 36-1996. A 37-year-old man with AIDS, neurologic deterioration, and multiple hemorrhagic cerebral lesions [clinical conference] **N Engl J Med** 1996 Nov 21;335(21):1587-95

Images in clinical medicine. Positive Tzanck smear. Cohen LM. **N Engl J Med** 1997 Aug 21;337(8):535

PHYSIOPATHOLOGY

Epidural coadministration of ketamine, morphine and bupivacaine attenuates post-herpetic neuralgia—a case report. Wong CS, et al. **Acta Anaesthesiol Sin** 1996 Sep; 34(3):151-5

AIDS-related varicella zoster meningoencephalitis and radicular pain without cutaneous eruption [letter] Débat Zoguéreh D, et al. **AIDS** 1996 Nov;10(13):1604-6

Assessment of pain in herpes zoster: lessons learned from antiviral trials. Dworkin RH, et al. **Antiviral Res** 1997 Jan; 33(2):73-85 (43 ref.)

Herpes zoster and progression to AIDS in a cohort of individuals who seroconverted to human immunodeficiency virus. Italian HIV Seroconversion Study. Alliegro MB, et al. **Clin Infect Dis** 1996 Nov; 23(5):990-5

Subcortical type cognitive impairment in herpes zoster encephalitis. Hokkanen L, et al. **J Neurol** 1997 Apr; 244(4):239-45

Pain and its persistence in herpes zoster. Dworkin RH, et al. **Pain** 1996 Oct;67(2-3):241-51 (126 ref.)

[Possible involvement of the autonomic nervous system in herpes zoster] Prange H. **Internist (Berl)** 1996 Nov; 37(11):1168-9 **(Ger)**

PREVENTION & CONTROL

Live attenuated varicella vaccine. Arvin AM, et al. **Annu Rev Microbiol** 1996;50:59-100 (261 ref.)

Live attenuated varicella vaccine for prevention of herpes zoster. Gershon A, et al. **Biologicals** 1997 Jun;25(2):227-30 (24 ref.)

Varicella-zoster virus vaccine. White CJ. **Clin Infect Dis** 1997 May;24(5):753-61; quiz 762-3 (82 ref.)

Varicella vaccination for healthcare workers at a university hospital: an analysis of costs and benefits. Tennenberg AM, et al. **Infect Control Hosp Epidemiol** 1997 Jun;18(6):405-11

Prevention and control of varicella-zoster infections in healthcare facilities. Weber DJ, et al. **Infect Control Hosp Epidemiol** 1996 Oct;17(10):694-705 (104 ref.)

The varicella vaccine. Prevention of herpes zoster. Levin MJ, et al. **Infect Dis Clin North Am** 1996 Sep;10(3):657-75 (98 ref.)

Control of varicella-zoster infection on renal and other specialist units. Jones EM, et al. **J Hosp Infect** 1997 Jun; 36(2):133-40

Early reconstitution of immunity and decreased severity of herpes zoster in bone marrow transplant recipients immunized with inactivated varicella vaccine. Redman RL, et al. **J Infect Dis** 1997 Sep;176(3):578-85

Varicella and zoster in children after kidney transplantation: long-term results of vaccination. Broyer M, et al. **Pediatrics** 1997 Jan;99(1):35-9

Varicella-zoster virus infection. The complex prevention-treatment picture. Brody MB, et al. **Postgrad Med** 1997 Jul;102(1):187-90, 192-4 (24 ref.)

[Prevention of herpes simplex and varicella zoster infections in patients of HIV infections] Caumes E, et al. **Ann Med Interne (Paris)** 1997;148(3):255-7 (25 ref.) (Eng. Abstr.) **(Fre)**

SURGERY

Results of DREZ coagulations for pain related to plexus lesions, spinal cord injuries and postherpetic neuralgia. Rath SA, et al. **Acta Neurochir (Wien)** 1996;138(4):364-9

THERAPY

Shortage of varicella zoster immunoglobulin prompts restriction on use. **Commun Dis Rep CDR Wkly** 1996 Dec 13;6(50):433

Interferon alpha gel for herpes zoster [letter] Miyoshi H, et al. **Dermatology** 1997;194(3):306

Treatment of herpes zoster with interferon alpha-2A. Naoum C, et al. **Int J Dermatol** 1996 Oct;35(10):749-50

How should zoster trials be conducted? Wood MJ, et al. **J Antimicrob Chemother** 1995 Dec;36(6):1089-1101 (28 ref.)

Shingles. Wyndham M. **Practitioner** 1996 Sep;240(1566):552 (2 ref.)

TRANSMISSION

Connatal herpes zoster. Querol I, et al. **Cutis** 1996 Sep; 58(3):231-4

Varicella disease and transmission in pediatric house officers. Oshiro AC, et al. **Pediatr Infect Dis J** 1996 May;15(5):461-2

HERPES ZOSTER

VIROLOGY

Histopathological findings, viral DNA distribution and lymphocytic immunophenotypes in vesicular and papular types of herpes zoster. Yi JY, et al. **Acta Derm Venereol** 1997 May;77(3):194–7

Varicella-zoster virus: aspects of pathogenesis and host response to natural infection and varicella vaccine. Arvin AM, et al. **Adv Virus Res** 1996;46:263–309 (75 ref.)

Delayed facial palsy after acoustic neuroma resection: the role of viral reactivation. Gianoli GJ, et al. **Am J Otol** 1996 Jul;17(4):625–9

Herpes zoster in three healthy children immunized with varicella vaccine (Oka/Biken); the causative virus differed from vaccine strain on PCR analysis of the IV variable region (R5) and of a PstI-site region. Na GY. **Br J Dermatol** 1997 Aug;137(2):255–8

Evaluation of a new general primer pair for rapid detection and differentiation of HSV-1, HSV-2, and VZV by polymerase chain reaction. Baron JM, et al. **J Med Virol** 1996 Aug;49(4):279–82

Effect of acyclovir and prednisolone on the serological response in herpes zoster. Bates CJ, et al. **J Med Virol** 1996 Nov;50(3):244–8

Detection of both herpes simplex and varicella-zoster viruses in cerebrospinal fluid from patients with encephalitis. Casas I, et al. **J Med Virol** 1996 Sep;50(1):82–92

Persistence of varicella-zoster virus DNA in elderly patients with postherpetic neuralgia. Mahalingam R, et al. **J Neurovirol** 1995 Mar;1(1):130–3

Luminometric microplate hybridization for detection of varicella-zoster virus PCR product from cerebrospinal fluid. Koskiniemi M, et al. **J Virol Methods** 1997 Jan; 63(1–2):71–9

Varicella and zoster in children after kidney transplantation: long-term results of vaccination. Broyer M, et al. **Pediatrics** 1997 Jan;99(1):35–9

Genome differences among varicella-zoster viruses isolated in Thailand. Thawaranantha D, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):677–83

Hair follicle involvement in herpes zoster [letter; comment] Nikkels AF, et al. **Virchows Arch** 1997 Jun;430(6):510–1. Comment on: Virchows Arch 1996 Jul;428(4–5):275–80.

HERPES ZOSTER AURICULARIS see **HERPES ZOSTER OTICUS**

HERPES ZOSTER, OCULAR see **HERPES ZOSTER OPHTHALMICUS**

HERPES ZOSTER OPHTHALMICUS

COMPLICATIONS

Herpes zoster-associated trigeminal neurotrophic ulcer [letter] Nielsen NH, et al. **Acta Derm Venereol** 1996 Mar; 76(2):159–60 (8 ref.)

You're the flight surgeon: severe headache. Geyer DE. **Aviat Space Environ Med** 1996 Sep;67(9):899–900

Corneal exposure in herpes zoster ophthalmicus [letter] Potamitis T, et al. **Br J Gen Pract** 1997 May;47(418):330–1

Clinical profile of herpes zoster ophthalmicus in Ethiopians. Bayu S, et al. **Clin Infect Dis** 1997 Jun;24(6):1256–60

Herpes zoster peripheral ulcerative keratitis in patients with the acquired immunodeficiency syndrome. Neves RA, et al. **Cornea** 1996 Sep;15(5):446–50

Presumed bilateral herpes zoster ophthalmicus in an AIDS patient: a case report. Yau TH, et al. **Cornea** 1996 Nov; 15(6):633–4

Bilateral and multifocal generalized eruptions in herpes zoster ophthalmicus: case report. Nath R. **Indian J Ophthalmol** 1996 Mar;44(1):40–2

Optic neuroretinitis, a rare manifestation of herpes zoster ophthalmicus: a case report. Dhar MY, et al. **J Commun Dis** 1997 Mar;29(1):57–61

Delayed-onset hemidystonia secondary to herpes zoster ophthalmicus-related intracerebral arteritis in an adolescent [letter] Burbaud P, et al. **J Neurol** 1997 Jul;244(7):470–2

Herpes zoster sine herpete. A potential cause of iridoplegic granulomatous iridocyclitis. Schwab IR. **Ophthalmology** 1997 Sep;104(9):1421–5

Repair of retinal detachments due to herpes varicella-zoster virus retinitis in patients with acquired immune deficiency syndrome. Weinberg DV, et al. **Ophthalmology** 1997 Feb; 104(2):279–82

Herpes zoster ophthalmicus with delayed contralateral hemiplegia. François P, et al. **Pediatr Infect Dis J** 1996 May;15(5):471–2

[Multifocal choroiditis associated with herpes zoster ophthalmicus. Apropos of a case] Chiquet C, et al. **J Fr Ophtalmol** 1996;19(11):712–5 (9 ref.) (Eng. Abstr.) **(Fre)**

DIAGNOSIS

The use of polymerase chain reaction techniques to detect varicella-zoster virus in corneal transplant tissue [editorial; comment] Liesegang TJ. **Arch Ophthalmol** 1997 May; 115(5):664–5. Comment on: Arch Ophthalmol 1997 May;115(5):590–4.

Detection of varicella-zoster virus DNA in keratectomy specimens by use of the polymerase chain reaction [see comments] Mietz H, et al. **Arch Ophthalmol** 1997 May; 115(5):590–4. Comment in: Arch Ophthalmol 1997 May;115(5):664–5.

You're the flight surgeon: severe headache. Geyer DE. **Aviat Space Environ Med** 1996 Sep;67(9):899–900

The Agar sandwich technique for retinal biopsy processing. Banker AS, et al. **Retina** 1996;16(6):530–4

DRUG THERAPY

The use of capsaicin in herpes zoster ophthalmicus neuralgia. Frucht-Pery J, et al. **Acta Ophthalmol Scand** 1997 Jun; 75(3):311–3

Successful treatment of progressive outer retinal necrosis syndrome. Spaide RF, et al. **Retina** 1996;16(6):479–87

ETIOLOGY

Varicella-zoster virus retrobulbar optic neuritis in a patient with human immunodeficiency virus. Shayegani A, et al. **Am J Ophthalmol** 1996 Oct;122(4):586–8

Optic neuropathy preceding acute retinal necrosis in acquired immunodeficiency syndrome. Friedlander SM, et al. **Arch Ophthalmol** 1996 Dec;114(12):1481–5

Herpesvirus infections of the anterior segment. Chang EJ, et al. **Int Ophthalmol Clin** 1996 Summer;36(3):17–28 (31 ref.)

Herpes zoster ophthalmicus and the immunocompromised host: a case report and review. McPherson RE. **J Am Optom Assoc** 1997 Aug;68(8):527–38 (49 ref.)

Multiple recurrent branch retinal artery occlusions associated with varicella zoster virus. Zamora RL, et al. **Retina** 1996; 16(5):399–404

PHYSIOPATHOLOGY

Ocular and neurological complications of varicella zoster virus infection in a patient with AIDS [letter] Meenken C, et al. **AIDS** 1996 Sep;10(10):1174–5

THERAPY

A dental prosthesis to close the palpebral fissure. Meades K. **Aust N Z J Ophthalmol** 1997 May;25(2):173

VIROLOGY

Varicella-zoster virus is strongly associated with atypical necrotizing herpetic retinopathies. Garweg J, et al. **Clin Infect Dis** 1997 Apr;24(4):603–8

HERPES ZOSTER OTICUS

COMPLICATIONS

Ramsay Hunt syndrome in a patient infected with human immunodeficiency virus [letter; comment] Johnson KB, et al. **Clin Infect Dis** 1996 Jun;22(6):1128–9. Comment on: Clin Infect Dis 1995 Aug;21(2):370–5.

Ocular findings in Ramsay Hunt syndrome. Mansour AM, et al. **J Neuroophthalmol** 1997 Sep;17(3):199–201

Ramsay Hunt syndrome complicated by contralateral cerebral infarction. Barrow KO, et al. **West Indian Med J** 1996 Dec;45(4):127–8

DIAGNOSIS

Facial weakness and rash. Ramsay Hunt syndrome (herpes zoster cephalicus, herpes zoster oticus, herpes zoster auricularis). Birinyi F. **Acad Emerg Med** 1996 Dec; 3(12):1144–5, 1153–5 (16 ref.)

Gd-DPTA enhanced MRI in Bell's palsy and herpes zoster oticus: an overview and implications for future studies. Jonsson L, et al. **Acta Otolaryngol (Stockh)** 1995 Sep; 115(5):577–84 (56 ref.)

Infectious diseases case study. Could this be viral? Golledge CL. **Aust Fam Physician** 1996 Dec;25(12):1878

Ramsay Hunt syndrome presenting as a cranial polyneuropathy. Asnis DS, et al. **Cutis** 1996 Jun;57(6):421–4

[Lymphocytic meningitis, vesicles in the auricular concha, and facial paresis] Otero Antón E, et al. **Rev Clin Esp** 1996 Jan;196(1):53–4 **(Spa)**

ECONOMICS

Economic evaluation of famciclovir in reducing the duration of postherpetic neuralgia. Huse DM, et al. **Am J Health Syst Pharm** 1997 May 15;54(10):1180–4

IMMUNOLOGY

Impaired specific cellular immunity to the varicella-zoster virus in patients with herpes zoster oticus. Ikeda M, et al. **J Laryngol Otol** 1996 Oct;110(10):918–21

PATHOLOGY

Molecular temporal bone pathology: II. Ramsay Hunt syndrome (herpes zoster oticus). Wackym PA. **Laryngoscope** 1997 Sep;107(9):1165–75

PHYSIOPATHOLOGY

[Clinical features and prognosis of facial palsy and hearing loss in patients with Ramsay Hunt syndrome] Murakami S, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Dec; 99(12):1772–9 (Eng. Abstr.) **(Jpn)**

THERAPY

[Guidelines/algorithms of the German Society of Otorhinolaryngology, Head and Neck Surgery. German Society of Otorhinolaryngology, Head and Neck Surgery] Ganzer U. **HNO** 1997 May;45(5):353–5 **(Ger)**

HERPES ZOSTER VIRUS see **HERPESVIRUS 3, HUMAN**

HERPESVIRIDAE

Herpesviruses and AIDS. Griffiths PD. **J Antimicrob Chemother** 1996 May;37 Suppl B:87–95 (48 ref.)

Viral infections in human immunodeficiency virus disease. Cavert W. **Med Clin North Am** 1997 Mar;81(2):411–26 (85 ref.)

Characterisation of the lymphoproliferation in rabbits experimentally affected with malignant catarrhal fever. Schock A, et al. **Vet Microbiol** 1996 Nov;53(1–2):111–9

[Molecular evolution of herpesviruses] Shirakata M, et al. **Uirusu** 1996 Jun;46(1):43–8 (34 ref.) **(Jpn)**

[Salmonid herpesvirus] Yoshimizu M. **Uirusu** 1996 Jun; 46(1):53–9 (46 ref.) **(Jpn)**

CLASSIFICATION

Is Kaposi sarcoma caused by new herpesvirus? [letter] Haverkos HW. **Biomed Pharmacother** 1996;50(6–7):318–9 (15 ref.)

[HHV-8 viruses] Dupin N. **Rev Med Interne** 1996;17(7):603–5 **(Fre)**

DRUG EFFECTS

Herpesvirus proteases: targets for novel antiviral drugs. Holwerda BC. **Antiviral Res** 1997 Jun;35(1):1–21 (89 ref.)

Herpesvirus resistance to antiviral drugs: a review of the mechanisms, clinical importance and therapeutic options. Reusser P. **J Hosp Infect** 1996 Aug;33(4):235–48 (89 ref.)

A facile, alternative synthesis of 4'-thioarabinonucleosides and their biological activities. Yoshimura Y, et al. **J Med Chem** 1997 Jul 4;40(14):2177–83

ENZYMOLOGY

Herpesvirus proteases: targets for novel antiviral drugs. Holwerda BC. **Antiviral Res** 1997 Jun;35(1):1–21 (89 ref.)

Polymerase chain reaction amplification of the thymidine kinase and protein kinase-related genes of channel catfish virus and a putative pilchard herpesvirus. Tham KM, et al. **J Virol Methods** 1996 Sep;61(1–2):65–72

Herpesvirus-encoded thymidine kinase in chemotherapy. Ostrowski T, et al. **Postepy Biochem** 1995;41(5 Suppl):342–7 (67 ref.)

GENETICS

Distribution of human herpesvirus-8 sequences throughout the spectrum of AIDS-related neoplasia. Gaidano G, et al. **AIDS** 1996 Aug;10(9):941–9

Herpes viruses in multicase families with rheumatoid arthritis and systemic lupus erythematosus. Dostál C, et al. **Ann N Y Acad Sci** 1997 Apr 5;815:334–7

Detection of herpesvirus-like DNA in HIV-associated and classical Kaposi's sarcoma. Simon M, et al. **Arch Dermatol Res** 1996 Jun;288(7):402–4

Expression of the feline herpesvirus type 1 ICP4 gene is controlled by two alternative promoters. Kawaguchi Y, et al. **Arch Virol** 1997;142(2):239–53

Herpesvirus-like DNA sequences in classic Kaposi's sarcoma and angiosarcoma in Japan [letter] Koizumi H, et al. **Br J Dermatol** 1996 Dec;135(6):1009–10

Kaposi's sarcoma-associated herpesvirus DNA sequences in AIDS-related and AIDS-unrelated lymphomatous effusions. Carbone A, et al. **Br J Haematol** 1996 Sep; 94(3):533–43

Detection and analysis of diverse herpesviral species by consensus primer PCR. VanDevanter DR, et al. **J Clin Microbiol** 1996 Jul;34(7):1666–71

Over- and underrepresentation of short DNA words in herpesvirus genomes [see comments] Leung MY, et al. **J Comput Biol** 1996 Fall;3(3):345–60. Comment in: J Comput Biol 1997 Summer;4(2):189–92.

Human herpesvirus-8: detection of novel herpesvirus-like DNA sequences in Kaposi's sarcoma and other lesions. Memar OM, et al. **J Mol Med** 1995 Dec;73(12):603–9 (49 ref.)

Detection of herpesviridae in postmortem multiple sclerosis brain tissue and controls by polymerase chain reaction. Sanders VJ, et al. **J Neurovirol** 1996 Aug;2(4):249–58

Avian leukemias and lymphomas: interplay between retroviruses and herpesviruses. Robinson D, et al. **Leukemia** 1997 Apr;11 Suppl 3:176–8

Herpesvirus genes: molecular basis of viral replication and pathogenicity. Nishiyama Y. **Nagoya J Med Sci** 1996 Dec; 59(3–4):107–19 (55 ref.)

Nerve growth factor somatic mosaicism produced by herpes virus-directed expression of cre recombinase. Brooks AI, et al. **Nat Biotechnol** 1997 Jan;15(1):57–62

POU-domain factor expression in the trigeminal ganglion and implications for herpes virus regulation. Turner EE, et al. **Neuroreport** 1996 Nov 25;7(18):2829–32

Vaccination against feline leukaemia using a new feline herpesvirus type 1 vector. Willemse MJ, et al. **Vaccine** 1996

Nov;14(16):1511–6
Molecular virology of ruminant herpesviruses. Schwyzer M, et al. **Vet Microbiol** 1996 Nov;53(1–2):17–29 (83 ref.)
Gene contents in a 31–kb segment at the left genome end of bovine herpesvirus–1. Schwyzer M, et al. **Vet Microbiol** 1996 Nov;53(1–2):67–77 (30 ref.)
High sensitivity polymerase chain reaction assay for active and latent feline herpesvirus–1 infections in domestic cats. Weigler BJ, et al. **Vet Rec** 1997 Mar 29;140(13):335–8
Retrotransposition and herpesvirus evolution. Brunovskis P, et al. **Virus Genes** 1995;11(2–3):259–70 (124 ref.)
[Expression of genes encoding animal herpesvirus glycoproteins in baculovirus] Bieńkowska–Szewczyk K, et al. **Postepy Hig Med Dosw** 1996;50(5):545–8 (Eng. Abstr.) **(Pol)**

IMMUNOLOGY

Onset of protective immunity in chicks after vaccination with a recombinant herpesvirus of turkeys vaccine expressing Newcastle disease virus fusion and hemagglutinin–neuraminidase antigens. Heckert RA, et al. **Avian Dis** 1996 Oct–Dec;40(4):770–7
Efficacy of INOVOJECT egg injection system for delivering Marek's disease vaccine under hatchery conditions. Marsh TE, et al. **Avian Dis** 1997 Apr–Jun;41(2):452–4
Inactivated vaccine for protection against duck virus enteritis. Shawky SA, et al. **Avian Dis** 1997 Apr–Jun; 41(2):461–8
Prevalence of antibodies to feline parvovirus, calicivirus, herpesvirus, coronavirus, and immunodeficiency virus and of feline leukemia virus antigen and the interrelationship of these viral infections in free–ranging lions in east Africa. Hofmann–Lehmann R, et al. **Clin Diagn Lab Immunol** 1996 Sep;3(5):554–62
Masters of deception: a review of herpesvirus immune evasion strategies. Davis–Poynter NJ, et al. **Immunol Cell Biol** 1996 Dec;74(6):513–22 (85 ref.)
Mechanisms of interference with the MHC class I–restricted pathway of antigen presentation by herpesviruses. Hill AB. **Immunol Cell Biol** 1996 Dec;74(6):523–6 (27 ref.)
Antarctic isolation: immune and viral studies. Tingate TR, et al. **Immunol Cell Biol** 1997 Jun;75(3):275–83
Human herpes viruses latent infection in the nervous system. Steiner I. **Immunol Rev** 1996 Aug;152:157–73 (110 ref.)
Prevalence of antibody to malignant catarrhal fever virus in wild and domestic ruminants by competitive–inhibition ELISA. Li H, et al. **J Wildl Dis** 1996 Jul;32(3):437–43
The interplay of herpesviruses in AIDS: superantigen sharing. Sutkowski N, et al. **Trends Microbiol** 1996 Mar; 4(3):89–91
Recombinant feline herpesvirus type 1 expressing immunogenic proteins inducible virus neutralizing antibody against feline calicivirus in cats. Yokoyama N, et al. **Vaccine** 1996 Dec;14(17–18):1657–63
Equine herpesvirus type 2 (EHV–2) as a predisposing factor for Rhodococcus equi pneumonia in foals: prevention of the bifactorial disease with EHV–2 immunostimulating complexes. Nordengrahn A, et al. **Vet Microbiol** 1996 Jul; 51(1–2):55–68

ISOLATION & PURIFICATION

Efficiency of PAPNET in detecting infectious organisms in cervicovaginal smears. Ashfaq R, et al. **Acta Cytol** 1996 Sep–Oct;40(5):885–8
Delayed facial palsy after acoustic neuroma resection: the role of viral reactivation. Gianoli GJ, et al. **Am J Otol** 1996 Jul;17(4):625–9
Use of nested polymerase chain reaction to identify feline herpesvirus in ocular tissue from clinically normal cats and cats with corneal sequestra or conjunctivitis. Stiles J, et al. **Am J Vet Res** 1997 Apr;58(4):338–42
Body cavity–based malignant lymphoma containing Kaposi sarcoma–associated herpesvirus in an HIV–negative man with previous Kaposi sarcoma. Strauchen JA, et al. **Ann Intern Med** 1996 Nov 15;125(10):822–5
Identification of ovine herpesvirus–2 infection in sheep. Baxter SI, et al. **Arch Virol** 1997;142(4):823–31
Differential sensitivity of culture and the polymerase chain reaction for detection of feline herpesvirus 1 in vaccinated and unvaccinated cats. Sykes JE, et al. **Arch Virol** 1997; 142(1):65–74
Lymphotropic herpesviruses in allogeneic bone marrow transplantation. Wang FZ, et al. **Blood** 1996 Nov 1; 88(9):3615–20
Isolation, purification and characterization of the virus responsible for vaginitis, in cows, associated with infertility. Mancini DA, et al. **Boll Chim Farm** 1996 Apr;135(4):244–7
Achalasia is not associated with measles or known herpes and human papilloma viruses. Birgisson S, et al. **Dig Dis Sci** 1997 Feb;42(2):300–6
Prevalence of herpesviridae and hepatitis B virus DNA in the liver of patients with non–A, non–B fulminant hepatic failure. Mason A, et al. **Hepatology** 1996 Dec;24(6):1361–5
Search for Kaposi's sarcoma–associated virus DNA in hemangioproliferative disorders and cutaneous malignant lymphoma. Serfling U, et al. **J Cutan Pathol** 1997 May; 24(5):298–304
High incidence of Kaposi's sarcoma–associated herpesvirus and Epstein–Barr virus in tumor lesions and peripheral blood mononuclear cells from patients with Kaposi's sarcoma in Uganda. Purvis SF, et al. **J Infect Dis** 1997 Apr;175(4):947–50
Detection of herpesviridae in postmortem multiple sclerosis brain tissue and controls by polymerase chain reaction. Sanders VJ, et al. **J Neurovirol** 1996 Aug;2(4):249–58
Bovine herpesviral encephalitis: a retrospective study on archived formalin–fixed, paraffin–embedded brain tissue. Ely RW, et al. **J Vet Diagn Invest** 1996 Oct;8(4):487–92
Detection of enteroviral RNA and specific DNA of herpesviruses by multiplex genome amplification. Casas I, et al. **J Virol Methods** 1997 Jun;66(1):39–50
Isolation of viruses from clinical specimens in microtitre plates with cells inoculated in suspension. O'Neill HJ, et al. **J Virol Methods** 1996 Dec;62(2):169–78
Herpesvirus particles associated with oral and respiratory lesions in a California desert tortoise (Gopherus agassizii). Pettan–Brewer KC, et al. **J Wildl Dis** 1996 Jul;32(3):521–6
Absence of HHV–8 in prostate and semen [letter; comment] Corbellino M, et al. **N Engl J Med** 1996 Oct 17; 335(16):1237; discussion 1238–9. Comment on: N Engl J Med 1996 May 2;334(18):1168–72.
Absence of HHV–8 in prostate and semen [letter; comment] Tasaka T, et al. **N Engl J Med** 1996 Oct 17;335(16):1237–8; discussion 1238–9. Comment on: N Engl J Med 1996 May 2;334(18):1168–72.
Herpes virus–related lymphoproliferative disorders following allogeneic bone marrow transplantation: clinical and biological characteristics of six cases. Brion A, et al. **Nouv Rev Fr Hematol** 1995;37(6):289–96
Isolation of new transmissible herpesvirus suggests additional therapeutic approaches for KS [news] **Oncology (Huntingt)** 1996 Mar;10(3):423–4
Immunocytochemical study of the pathogenesis of Pacheco's parrot disease in budgerigars. Ramis A, et al. **Vet Microbiol** 1996 Sep;52(1–2):49–61
Detection of ovine herpesvirus 2 in Kenyan sheep by polymerase chain reaction. Mirangi PK, et al. **Vet Rec** 1997 Aug 16;141(7):176–7
Chronic and recovered cases of sheep–associated malignant catarrhal fever in cattle. O'Toole D, et al. **Vet Rec** 1997 May 17;140(20):519–24
Fatal herpesvirus infection in a hedgehog (Erinaceus europaeus). Widén F, et al. **Vet Rec** 1996 Sep 7; 139(10):237–8
Gazelle herpesvirus 1: a new neurotropic herpesvirus immunologically related to equine herpesvirus 1. Fukushi H, et al. **Virology** 1997 Jan 6;227(1):34–44
An outbreak of Pacheco's parrot disease in psittacine birds recently imported to Campania, Italy: isolation of psittacid herpesvirus 2. Magnino S, et al. **Zentralbl Veterinarmed [B]** 1996 Dec;43(10):631–7
[Detection of herpes virus–like DNA in various forms of Kaposi's sarcoma but not in other mesenchymal tumors or inflammatory changes in skin] Cathomas G, et al. **Verh Dtsch Ges Pathol** 1996;80:318–21 (Eng. Abstr.) **(Ger)**

METABOLISM

Novel DNA binding specificities of a putative herpesvirus bZIP oncoprotein. Qian Z, et al. **J Virol** 1996 Oct; 70(10):7161–70

PATHOGENICITY

Masters of deception: a review of herpesvirus immune evasion strategies. Davis–Poynter NJ, et al. **Immunol Cell Biol** 1996 Dec;74(6):513–22 (85 ref.)
Mechanisms of interference with the MHC class I–restricted pathway of antigen presentation by herpesviruses. Hill AB. **Immunol Cell Biol** 1996 Dec;74(6):523–6 (27 ref.)
Increased susceptibility to the pathogenic effects of wild–type and recombinant herpesviruses in MPS VII mice compared to normal siblings. Wolfe JH, et al. **J Neurovirol** 1996 Dec; 2(6):417–22
Virulence of six strains of duck plague virus in eight waterfowl species. Spieker JO, et al. **J Wildl Dis** 1996 Jul; 32(3):453–60
Bovine herpesvirus type–4 (BHV–4) persistently infects cells of the marginal zone of spleen in cattle. Lopez OJ, et al. **Microb Pathog** 1996 Jul;21(1):47–58
Herpesviral abortion in domestic animals [see comments] Smith KC. **Vet J** 1997 May;153(3):253–68 (191 ref.). Comment in: Vet J 1997 May;153(3):239–44.
Establishment of a rabbit model for bovine herpesvirus type 5 neurological acute infection. Meyer G, et al. **Vet Microbiol** 1996 Jul;51(1–2):27–40

PHYSIOLOGY

Immune evasion strategies of the herpesviruses. York IA. **Chem Biol** 1996 May;3(5):331–5 (26 ref.)

HERPESVIRIDAE INFECTIONS

Human herpesvirus 6 (HHV–6). Lusso P. **Antiviral Res** 1996 Jun;31(1–2):1–21 (182 ref.)
Human herpesvirus 6. Braun DK, et al. **Clin Microbiol Rev** 1997 Jul;10(3):521–67 (576 ref.)
Herpesvirus disease: an update. Nadler JP, et al. **Compr Ther** 1997 Feb;23(2):104–7 (15 ref.)
Viruses and idiopathic pulmonary fibrosis [editorial; comment] Egan JJ, et al. **Eur Respir J** 1997 Jul;10(7):1433–7 (47 ref.). Comment on: Eur Respir J 1997 Jul;10(7):1445–9.
Epstein–Barr virus in tumours. Anagnostopoulos I, et al. **Histopathology** 1996 Oct;29(4):297–315 (182 ref.)
An Epstein–Barr virus positive undifferentiated carcinoma in the lacrimal sac. Leung SY, et al. **Histopathology** 1996 Jan;28(1):71–5
Increasing evidence that Epstein–Barr virus may be involved in the pathogenesis of undifferentiated carcinoma of the salivary glands [letter] Gallo O. **Hum Pathol** 1996 Dec; 27(12):1381
Meningoencephalitis associated with human herpesvirus–6 in an adult [letter] Ikusaka M, et al. **Intern Med** 1997 Feb; 36(2):157
Epstein–Barr virus–associated gastric carcinoma. Adachi Y, et al. **J Clin Gastroenterol** 1996 Oct;23(3):207–10 (24 ref.)
In situ polymerase chain reaction–based localization studies support role of human herpesvirus–8 as the cause of two AIDS–related neoplasms: Kaposi's sarcoma and body cavity lymphoma. Foreman KE, et al. **J Clin Invest** 1997 Jun 15;99(12):2971–8
Role of Epstein–Barr virus in tumor development [letter] Yunis EJ. **J Pediatr** 1996 Mar;128(3):438
Human herpesvirus 7 infection of lymphoid and myeloid cell lines transduced with an adenovirus vector containing the CD4 gene. Yasukawa M, et al. **J Virol** 1997 Feb; 71(2):1708–12
EBV reactivation associated with Hodgkin's disease relapse and fatal hemophagocytic syndrome [letter] Mounier N, et al. **Leukemia** 1996 Nov;10(11):1848
Emerging and newly identified viral infections. DeVincenzo JP. **Pediatr Ann** 1996 Sep;25(9):511–7
Herpes virus infections. Proceedings of a meeting. Stockholm, Sweden, 11–12 May 1995. **Scand J Infect Dis Suppl** 1996;100:1–88
An animal model for acute and persistent Epstein–Barr virus infection. Moghaddam A, et al. **Science** 1997 Jun 27; 276(5321):2030–3
Epstein–Barr virus in Hodgkin's disease. Herbst H. **Semin Cancer Biol** 1996 Aug;7(4):183–9 (69 ref.)
EBV infection of T cells: potential role in malignant transformation. Kelleher CA, et al. **Semin Cancer Biol** 1996 Aug;7(4):197–207 (69 ref.)
Epstein–Barr virus and human T–cell lymphomas. Meijer CJ, et al. **Semin Cancer Biol** 1996 Aug;7(4):191–6
Epstein–Barr virus infection and the pathogenesis of nasopharyngeal carcinoma: viral gene expression, tumour cell phenotype, and the role of the lymphoid stroma. Niedobitek G, et al. **Semin Cancer Biol** 1996 Aug; 7(4):165–74 (92 ref.)
Epstein–Barr virus and gastric carcinoma. Osato T, et al. **Semin Cancer Biol** 1996 Aug;7(4):175–82 (41 ref.)
Introduction: Epstein–Barr virus and non–B cell tumours. Young LS. **Semin Cancer Biol** 1996 Aug;7(4):163–4
Epstein–Barr virus associated Burkitt lymphoma in a heart transplant recipient. Hunt BJ, et al. **Transplantation** 1996 Sep 27;62(6):869–72
[Human herpesvirus 8 infections] Agut H. **Presse Med** 1997 Jan;26 Suppl 1:16–8 (26 ref.) **(Fre)**
[Human herpesvirus–6: a new member of the herpesvirus family, a threat to AIDS, organ–transplanted and other immune deficient patients] Kenigsberg S, et al. **Harefuah** 1997 Mar 2;132(5):346–50 (40 ref.) **(Heb)**
[Oncogenic mechanisms of Epstein–Barr virus] Herrero JA. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):551–60 (132 ref.) **(Spa)**
[Clinical polymorphism in Epstein–Barr virus infection] Martínez Aguilar NE, et al. **Rev Alerg Mex** 1997 Mar–Apr; 44(2):45–50 (Eng. Abstr.) **(Spa)**
[Epstein–Barr virus primary infection: a poorly known cause of acute genital ulcer. Lipschütz ulcer? (letter)] Navarro Llanos A, et al. **Rev Clin Esp** 1996 Aug;196(8):570–1 **(Spa)**

BLOOD

Epstein–Barr virus DNA in serum after liver transplantation—surveillance of viral activity during treatment with different immunosuppressive agents. Barkholt LM, et al. **Transpl Int** 1996;9(5):439–45
Efficacy of quantitative analysis of Epstein–Barr virus–infected peripheral blood lymphocytes by in situ hybridization of EBER1 after living–related liver transplantation: a case report. Nakazawa Y, et al. **Transplantation** 1997 May 15;63(9):1363–6

CEREBROSPINAL FLUID

Search for herpesvirus DNA in cerebrospinal fluid of HIV patients with brain disorders: prevalence of cytomegalovirus DNA findings. Portolani M, et al. **J Neurovirol** 1997 Jun;3(3):192–6

CHEMICALLY INDUCED

Influence of mercuric chloride on resistance to generalized infection with herpes simplex virus type 2 in mice. Christensen MM, et al. **Toxicology** 1996 Nov 15; 114(1):57–66

COMPLICATIONS

Gianotti–Crosti syndrome in an adult patient following a recently acquired Epstein–Barr virus infection [letter] Mempel M, et al. **Acta Derm Venereol** 1996 Nov; 76(6):502–3
Epstein–Barr–virus–associated lymphoproliferative

syndrome in severe combined immunodeficiency: establishment of a lymphoblastoid cell line as an in vitro model for biological and therapeutic studies. Simon M, et al. **Acta Haematol** 1996;96(3):170–7

Epstein–Barr virus infection, Hodgkin's disease, non–Hodgkin's lymphoma, and reactive follicular hyperplasia in Japanese children: evaluation of paraffin–embedded specimens using polymerase chain reaction and immunohistochemistry. Hiraiwa H, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):158–65

Kaposi's sarcoma–associated herpesvirus/human herpesvirus type 8 encephalitis in HIV–positive and –negative individuals. Said JW, et al. **AIDS** 1997 Jul 15;11(9):1119–22

Transient erythroblastopenia of childhood associated with human herpesvirus type 6, variant B. Penchansky L, et al. **Am J Clin Pathol** 1997 Aug;108(2):127–32

Clonal lymphoproliferation following chronic active Epstein–Barr virus infection and hypersensitivity to mosquito bites. Ishihara S, et al. **Am J Hematol** 1997 Apr; 54(4):276–81

It's time to define "EBV–associated lymphomas" [letter; comment] Naresh KN. **Am J Hematol** 1997 Feb;54(2):175 . Comment on: Am J Hematol 1996 May;52(1):21–8.

Pleural effusion due to herpes simplex type II infection in an immunocompromised host. Trudo FJ, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):371–3

EBV in follicular dendritic cells [letter] Arber DA, et al. **Am J Surg Pathol** 1996 Nov;20(11):1426–7

Could a herpesvirus mimic tacrolimus–induced leukoencephalopathy? [letter; comment] Paterson DL, et al. **Ann Neurol** 1997 Aug;42(2):270. Comment on: Ann Neurol 1996 Oct;40(4):575–80.

Basal ganglia infarction associated with HHV–6 infection. Webb DW, et al. **Arch Dis Child** 1997 Apr;76(4):362–4

Epstein–Barr virus—Associated hemophagocytic syndrome. A cause of fever of unknown origin in human immunodeficiency virus infection. Albrecht H, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):853–8

Latent Epstein–Barr virus infection demonstrated in low–grade leiomyosarcomas of adults with acquired immunodeficiency syndrome, but not in adjacent Kaposi's lesion or smooth muscle tumors in immunocompetent patients. Boman F, et al. **Arch Pathol Lab Med** 1997 Aug; 121(8):834–8

Picture of the month. Facial nerve palsy secondary to Epstein–Barr virus infection. Wilson C, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):739–40

Risk factors for developing EBV–related B cell lymphoproliferative disorders (BLPD) after non–HLA–identical BMT in children. Gerritsen EJ, et al. **Bone Marrow Transplant** 1996 Aug;18(2):377–82

Aggressive B–cell lymphoma induced by Epstein–Barr virus infection in erythrodermic cutaneous T–cell lymphoma. Kikuchi A, et al. **Br J Dermatol** 1997 Jan;136(1):124–8

Primary cutaneous T–cell lymphoma with an angiocentric growth pattern: association with Epstein–Barr virus. Misago N, et al. **Br J Dermatol** 1996 Oct;135(4):638–43

Epstein–Barr virus associated B–cell lymphoma after autologous bone marrow transplantation for T–cell acute lymphoblastic leukaemia. Briz M, et al. **Br J Haematol** 1997 Aug;98(2):485–7

Chronic persistent Epstein–Barr virus infection of natural killer cells and B cells associated with granular lymphocytes expansion. Kanegane H, et al. **Br J Haematol** 1996 Oct;95(1):116–22

Case report: varicella–zoster virus myelitis—serial MR findings. Hirai T, et al. **Br J Radiol** 1996 Dec; 69(828):1187–90

Epilepsy etiology with special emphasis on immune dysfunction and neurovirology. Eeg–Olofsson O, et al. **Brain Dev** 1995;17 Suppl:58–60

A study of childhood febrile convulsions with particular reference to HHV–6 infection: pathogenic considerations. Bertolani MF, et al. **Childs Nerv Syst** 1996 Sep;12(9):534–9

Rapidly progressive outer retinal necrosis caused by varicella zoster virus in a patient infected with human immunodeficiency virus. Galindez OA, et al. **Clin Infect Dis** 1996 Jan;22(1):149–51

Chronic myelosuppression associated with persistent bone marrow infection due to human herpesvirus 6 in a bone marrow transplant recipient. Knox KK, et al. **Clin Infect Dis** 1996 Jan;22(1):174–5

Antibody responses to two Epstein–Barr virus (EBV) nuclear antigens (EBNA–1 and EBNA–2) during EBV primary infection in children born to mothers infected with human immunodeficiency virus. Pedneault L, et al. **Clin Infect Dis** 1996 Oct;23(4):806–8

Postherpetic neuralgia [letter] Kato Y, et al. **Clin J Pain** 1995 Dec;11(4):336–8

Hodgkin's disease after cardiac transplant: a report of two cases. Hood IM, et al. **Clin Lab Haematol** 1996 Jun; 18(2):115–6

Epstein–Barr virus and its possible role in the pathogenesis of B–cell lymphomas. Oudejans JJ, et al. **Crit Rev Oncol Hematol** 1997 Feb;25(2):127–38 (133 ref.)

Gloves–and–socks syndrome in a patient with Epstein–Barr virus infection [letter] Drago F, et al. **Dermatology** 1997; 194(4):374

Herpes virus (KSHV) associated Kaposi sarcoma in a 3–year–old child with non–HIV–induced immunodeficiency. Kusenbach G, et al. **Eur J Pediatr** 1997 Jun;156(6):440–3

Autoimmune hemolytic anemia with anti–DC specificity following a primary infection by Varicella virus [letter] Sanchis Cervera J, et al. **Haematologica** 1997 Jul–Aug; 82(4):508–9

Survey of sinonasal inverted papillomata for Epstein–Barr virus. Dunn ST, et al. **Head Neck** 1997 Mar;19(2):98–106 (65 ref.)

Human herpesvirus–8–associated body cavity–based lymphoma in human immunodeficiency virus–infected patients: a unique B–cell neoplasm. Karcher DS, et al. **Hum Pathol** 1997 Jul;28(7):801–8 (47 ref.)

A study of the possible etiologic association of Epstein–Barr virus with reactive hemophagocytic syndrome in Hong Kong Chinese. Wong KF, et al. **Hum Pathol** 1996 Nov; 27(11):1239–42

Variant A human herpesvirus six as a cofactor in the pathogenesis of AIDS [letter] Carrigan DR, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Sep; 13(1):97–8

Herpesviruses and AIDS. Griffiths PD. **J Antimicrob Chemother** 1996 May;37 Suppl B:87–95 (48 ref.)

Detection of herpesvirus–like DNA by nested PCR on archival skin biopsy specimens of various forms of Kaposi sarcoma. Cathomas G, et al. **J Clin Pathol** 1996 Aug; 49(8):631–3

Quantification of human herpesvirus 6 in immunocompetent persons and post–mortem tissues from AIDS patients by PCR. Clark DA, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2271–5

Analysis of human herpesvirus type 8 infection in AIDS–related and AIDS–unrelated primary central nervous system lymphoma. Gaidano G, et al. **J Infect Dis** 1997 May;175(5):1193–7

Exacerbations of clinical symptoms in human immunodeficiency virus type 1–infected patients with multicentric Castleman's disease are associated with a high increase in Kaposi's sarcoma herpesvirus DNA load in peripheral blood mononuclear cells. Grandadam M, et al. **J Infect Dis** 1997 May;175(5):1198–201

Human herpesvirus–8 DNA sequences in a patient with pemphigus vulgaris, but without HIV infection or Kaposi's sarcoma [letter] Memar OM, et al. **J Invest Dermatol** 1997 Jan;108(1):118–9

Spontaneous retropharyngeal haematoma attributable to Epstein–Barr virus infection. Jones TM, et al. **J Laryngol Otol** 1996 Nov;110(11):1075–7

Fulminant demyelinating encephalomyelitis associated with productive HHV–6 infection in an immunocompetent adult. Novoa LJ, et al. **J Med Virol** 1997 Jul;52(3):301–8

The role of laboratory investigation in the diagnosis and management of patients with suspected herpes simplex encephalitis: a consensus report. The EU Concerted Action on Virus Meningitis and Encephalitis. Cinque P, et al. **J Neurol Neurosurg Psychiatry** 1996 Oct;61(4):339–45 (96 ref.)

An encephalitic episode in a multiple sclerosis patient with human herpesvirus 6 latent infection. Merelli E, et al. **J Neurol Sci** 1996 Apr;137(1):42–6

Three or more infantile febrile seizures and HHV–6 [letter; comment] Westarp ME, et al. **J Neurovirol** 1995 Sep; 1(3–4):321. Comment on: J Neurovirol 1995 Mar;1(1):30–9.

Epstein–Barr virus associated parotitis [letter] Lee AC, et al. **J Paediatr Child Health** 1997 Apr;33(2):177–8

Clinicopathological, immunological and genetic studies of CD30+ anaplastic large cell lymphoma of B–cell type; association with Epstein–Barr virus in a Japanese population. Kuze T, et al. **J Pathol** 1996 Nov;180(3):236–42

Epstein–Barr virus in Hodgkin's disease: more than just an innocent bystander [editorial] Oudejans JJ, et al. **J Pathol** 1997 Apr;181(4):353–6 (42 ref.)

Hypersensitivity to mosquito bites conceals clonal lymphoproliferation of Epstein–Barr viral DNA–positive natural killer cells. Ishihara S, et al. **Jpn J Cancer Res** 1997 Jan;88(1):82–7

Paediatric HIV infection [letter; comment] Joshi VV. **Lancet** 1996 Nov 30;348(9040):1527. Comment on: Lancet 1996 Sep 28;348(9031):837–8. Comment on: Lancet 1996 Sep 28;348(9031):863–8.

Autoimmune hepatitis and adrenal insufficiency in an infant with human herpesvirus–6 infection [letter] Schmitt K, et al. **Lancet** 1996 Oct 5;348(9032):966

Angioimmunoblastic lymphadenopathy with disseminated human herpesvirus 6 infection in a patient with acute myeloblastic leukemia. Daibata M, et al. **Leukemia** 1997 Jun;11(6):882–5

Absence of evidence for an etiologic role for Epstein–Barr virus in neoplasms of the lung and pleura. Conway EJ, et al. **Mod Pathol** 1996 May;9(5):491–5

Identification of Epstein–Barr virus lytic activity in post–transplantation lymphoproliferative disease. Montone KT, et al. **Mod Pathol** 1996 Jun;9(6):621–30

Epstein–Barr–virus–associated post–transplant B–cell lymphoma presenting as allograft artery stenosis. Hestin D, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1164–7

Development and preliminary validation of a pain measure specific to neuropathic pain: the Neuropathic Pain Scale. Galer BS, et al. **Neurology** 1997 Feb;48(2):332–8

Guillain–Barré and virus–associated hemophagocytic syndromes contracted simultaneously following Epstein–Barr viral infection. Kaneko M, et al. **Neurology** 1997 Sep;49(3):870–1

High–dose oral dextromethorphan versus placebo in painful diabetic neuropathy and postherpetic neuralgia. Nelson KA, et al. **Neurology** 1997 May;48(5):1212–8

No Epstein Barr and cytomegalovirus DNA found in salivary gland tumours. Kärjä V, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):97–9

Stealth viral encephalopathy: report of a fatal case complicated by cerebral vasculitis. Martin WJ. **Pathobiology** 1996;64(2):59–63

Gianotti–Crosti syndrome associated with Epstein–Barr virus infection. Hofmann B, et al. **Pediatr Dermatol** 1997 Jul–Aug;14(4):273–7

Nephrotic syndrome associated with an Epstein–Barr virus infection. Blowey DL. **Pediatr Nephrol** 1996 Aug; 10(4):507–8

Idiopathic bronchocentric granulomatosis in an adolescent. Millar JG, et al. **Pediatr Pulmonol** 1997 Jan;23(1):62–5

Non–Hodgkin's lymphomas complicating Sjögren's syndrome: can Epstein Barr virus be implicated? Jeffers M, et al. **Scand J Rheumatol** 1997;26(3):180–3

Selected issues in premature rupture of the membranes: herpes, cerclage, twins, tocolysis, and hospitalization. Lewis R, et al. **Semin Perinatol** 1996 Oct;20(5):451–61 (76 ref.)

Epstein–Barr virus associated graft failure following heart/lung transplantation. Egan JJ, et al. **Thorax** 1996 Nov;51(11):1160–2; discussion 1164–5

Autologous lymphokine–activated killer cell therapy of Epstein–Barr virus–positive and –negative lymphoproliferative disorders arising in organ transplant recipients. Nalesnik MA, et al. **Transplantation** 1997 May 15;63(9):1200–5

[Cutaneous and neurologic vasculitis disclosing EBV–selective immunodeficiency] Grosieux C, et al. **Ann Dermatol Venereol** 1996;123(6–7):387–92 (Eng. Abstr.) **(Fre)**

[Human herpesvirus 8 infections] Agut H. **Presse Med** 1997 Jan;26 Suppl 1:16–8 (26 ref.) **(Fre)**

[Painful bilateral lumbar radiculoplexopathy associated with Epstein–Barr virus infection] Pou Serradell A, et al. **Rev Neurol (Paris)** 1996 Jun–Jul;152(6–7):483–5 (Eng. Abstr.) **(Fre)**

[EBV–associated primary T–cell non–Hodgkin's lymphoma during immunosuppression after lung transplantation] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):593–4 **(Ger)**

[Immunodeficiency and carcinogenesis in patients with chronic active Epstein–Barr virus infection] Nagafuchi S, et al. **Kansenshogaku Zasshi** 1997 Jan;71(1):56–64 (Eng. Abstr.) **(Jpn)**

[State of art: Epstein Barr virus–associated gastric carcinoma] Fukayama M, et al. **Nippon Rinsho** 1997 Feb;55(2):357–62 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Fulminant cerebello–brainstem encephalitis with polyradiculitis following probable Epstein–Barr virus infection] Koguchi Y, et al. **Rinsho Shinkeigaku** 1996 Nov; 36(11):1225–8 (Eng. Abstr.) **(Jpn)**

[Kikuchi–Fujimoto disease associated with acute infection by herpesvirus 6 (see comments)] Rodríguez JN, et al. **Sangre (Barc)** 1996 Oct;41(5):387–90 (Eng. Abstr.). Comment in: Sangre (Barc) 1996 Oct;41(5):337–9. **(Spa)**

DIAGNOSIS

Genital viral infections. Studies on human papillomavirus and Epstein–Barr virus. Voog E. **Acta Derm Venereol Suppl (Stockh)** 1996;198:1–55 (232 ref.)

In situ hybridization studies of cytomegalovirus and Epstein–Barr virus in reactive histiocytic hyperplasia with hemophagocytosis. Han K, et al. **Acta Haematol** 1996; 96(3):140–5

Human herpesvirus–6 immunoglobulin G antibodies in patients with multiple sclerosis. Nielsen L, et al. **Acta Neurol Scand Suppl** 1997;169:76–8

Kaposi's sarcoma—associated herpesvirus: a newly recognized pathogen. Boshoff C, et al. **AIDS Clin Rev** 1997–98;:323–47 (108 ref.)

Epstein–Barr virus infection in infants and their mothers [letter] Simon MW. **Am Fam Physician** 1997 Aug;56(2):380, 382

Diagnosis of primary human herpesvirus 6 and 7 infections in febrile infants by polymerase chain reaction. Clark DA, et al. **Arch Dis Child** 1997 Jul;77(1):42–5

Identification of ovine herpesvirus–2 infection in sheep. Baxter SI, et al. **Arch Virol** 1997;142(4):823–31

Absence of cytomegalovirus and Epstein–Barr virus expression in labial salivary glands of patients with chronic graft–versus–host disease. Mariette X, et al. **Bone Marrow Transplant** 1996 Apr;17(4):607–10

Comparative evaluation of three ELISA techniques and an indirect immunofluorescence assay for the serological diagnosis of Epstein–Barr virus infection. Debyser Z, et al. **Clin Diagn Virol** 1997 May;8(1):71–81

Seroconversion to human herpesvirus 6 and human herpesvirus 7 among Brazilian children with clinical diagnoses of measles or rubella. Black JB, et al. **Clin Infect Dis** 1996 Nov;23(5):1156–8

Periodic illness associated with Epstein–Barr virus infection [see comments] Lekstrom–Himes JA, et al. **Clin Infect Dis** 1996 Jan;22(1):22–7. Comment in: Clin Infect Dis 1996 Jan;22(1):28–9.

Bedside testing: the diagnostic cornerstone of dermatology. Brodell RT, et al. **Compr Ther** 1997 Mar;23(3):211-7 (25 ref.)

Serological evidence for active Epstein-Barr virus infection in multifocal choroiditis. Bhende PS, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):129-31

Are acetowhite lesions of the cervix correlated to the presence of Epstein-Barr virus DNA? Voog E, et al. **Int J STD AIDS** 1997 Jul;8(7):432-6

EBV-associated Kikuchi's histiocytic necrotizing lymphadenitis with cutaneous manifestations. Yen A, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 2):342-6

Reliability of four methods for the diagnosis of acute infection by Epstein-Barr virus. Gutiérrez J, et al. **J Clin Lab Anal** 1997;11(2):78-81

Development of immuno-PCR for diagnosis of bovine herpesvirus 1 infection. Mweene AS, et al. **J Clin Microbiol** 1996 Mar;34(3):748-50

Detection of herpesvirus-like DNA by nested PCR on archival skin biopsy specimens of various forms of Kaposi sarcoma. Cathomas G, et al. **J Clin Pathol** 1996 Aug; 49(8):631-3

Case report. MRI findings of severe Epstein-Barr virus encephalomyelitis. Donovan WD, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):1027-9 (8 ref.)

Epstein-Barr virus encephalitis and encephalomyelitis: MR findings. Shian WJ, et al. **Pediatr Radiol** 1996 Sep; 26(9):690-3

Use of quantitative PCR to predict onset of Epstein-Barr viral infection and post-transplant lymphoproliferative disease after intestinal transplantation in children. Green M, et al. **Transplant Proc** 1996 Oct;28(5):2759-60

[Current diagnosis and prognostic importance of EBV-associated neoplasms] Kawa K. **Nippon Rinsho** 1997 Feb;55(2):446-51 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Human herpesviruses 6 and 7] Asano Y. **Rinsho Byori** 1996 Sep;44(9):825-31 (Eng. Abstr.) **(Jpn)**

[The Epstein-Barr virus in patients with infectious endocarditis] Zhiburt EB, et al. **Ter Arkh** 1997;69(4):42-3 (Eng. Abstr.) **(Rus)**

[Method of diagnosis of Epstein-Barr virus infection] Zhiburt EB, et al. **Vopr Virusol** 1996 Jul-Aug;41(4):185-7 (Eng. Abstr.) **(Rus)**

DRUG THERAPY

Trifluorothymidine 0.5% ointment in the treatment of aciclovir-resistant mucocutaneous herpes simplex in AIDS [letter] Amin AR, et al. **AIDS** 1996 Aug;10(9):1051-3

Famciclovir: a new systemic antiviral agent for herpesvirus infections. Stott GA. **Am Fam Physician** 1997 May 15; 55(7):2501-4

Valacyclovir. Acosta EP, et al. **Ann Pharmacother** 1997 Feb; 31(2):185-91 (36 ref.)

Antiviral drug development: the road less taken [comment] Balfour HH Jr. **Ann Pharmacother** 1996 Sep;30(9):964-6. Comment on: Ann Pharmacother 1996 Sep;30(9):967-71. Comment on: Ann Pharmacother 1996 Sep;30(9):972-7.

Famciclovir for treatment of herpesvirus infections. Luber AD, et al. **Ann Pharmacother** 1996 Sep;30(9):978-85 (42 ref.)

The past as prelude to the future: history, status, and future of antiviral drugs [see comments] Whitley RJ. **Ann Pharmacother** 1996 Sep;30(9):967-71 (9 ref.). Comment in: Ann Pharmacother 1996 Sep;30(9):964-6.

Potent anti-murine cytomegalovirus activity and reduced nephrotoxicity of ganciclovir cyclic phosphonate. Smee DF, et al. **Antimicrob Agents Chemother** 1996 Aug; 40(8):1964-6

Efficacy of BMS-180194 against experimental cytomegalovirus infections in immunocompromised mice. Yang H, et al. **Antiviral Res** 1996 Mar;29(2-3):233-41

Lymphotropic herpesviruses in allogeneic bone marrow transplantation. Wang FZ, et al. **Blood** 1996 Nov 1; 88(9):3615-20

European survey of herpesvirus resistance to antiviral drugs in bone marrow transplant recipients. Infectious Diseases Working Party of the European Group for Blood and Marrow Transplantation (EBMT). Reusser P, et al. **Bone Marrow Transplant** 1996 May;17(5):813-7

Myelitis due to varicella-zoster virus in two patients with AIDS: successful treatment with acyclovir. Lionnet F, et al. **Clin Infect Dis** 1996 Jan;22(1):138-40

Advances in antiviral therapy. Dwyer DE, et al. **Curr Opin Pediatr** 1997 Feb;9(1):24-30 (36 ref.)

New antiherpesvirus agents. Their targets and therapeutic potential. Alrabiah FA, et al. **Drugs** 1996 Jul;52(1):17-32 (131 ref.)

Valaciclovir. A review of its antiviral activity, pharmacokinetic properties and therapeutic efficacy in herpesvirus infections. Perry CM, et al. **Drugs** 1996 Nov; 52(5):754-72 (70 ref.)

Pharmacology of new antiherpes agents: famciclovir and valacyclovir. Stein GE. **J Am Pharm Assoc (Wash)** 1997 Mar-Apr;NS37(2):157-63 (39 ref.)

New therapeutic approaches to the alphaherpesvirus infections. Cassady KA, et al. **J Antimicrob Chemother** 1997 Feb;39(2):119-28 (77 ref.)

Herpesvirus resistance to antiviral drugs: a review of the mechanisms, clinical importance and therapeutic options. Reusser P. **J Hosp Infect** 1996 Aug;33(4):235-48 (89 ref.)

Effect of recombinant bovine interleukin-1 beta in normal calves and in calves infected with bovine herpesvirus type 1. Van Kessel AG, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):881-90

Interleukin-12 exhibits potent antiviral activity in experimental herpesvirus infections. Carr JA, et al. **J Virol** 1997 Oct;71(10):7799-803

Comments on De Benedittis and Lorenzetti: on topical aspirin/diethyl ether for postherpetic neuralgia, PAIN, 65 (1996) 45-51 [letter; comment] Bonicalzi V, et al. **Pain** 1997 Apr;70(2-3):287-9. Comment on: Pain 1996 Apr;65(1):45-51.

Advances in the management of herpesvirus infections. Introduction. Whitley RJ. **Semin Dermatol** 1996 Jun;15(2 Suppl 1):1-3 (20 ref.)

[Herpesvirus and varicella-zoster virus after bone marrow transplantation] Milpied N. **Presse Med** 1997 Jan;26 Suppl 1:4-6 (18 ref.) **(Fre)**

[Future prospects of valacyclovir in treating and preventing herpesviridae infections in immunosuppressed patients] Raffi F. **Presse Med** 1997 Jan;26 Suppl 1:19-21 (13 ref.) **(Fre)**

EPIDEMIOLOGY

Primary infections of human herpesvirus-7 and herpesvirus-6: a comparative, longitudinal study up to 6 years of age. Huang LM, et al. **Acta Paediatr** 1997 Jun; 86(6):604-8

Epidemiology of EBV and Hodgkin's lymphoma. Jarrett AF, et al. **Ann Oncol** 1996;7 Suppl 4:5-10 (52 ref.)

Serological confirmation of human herpesvirus type 6 infection in different age groups. Biesiadecka A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):63-5

Distribution and relevance of equine herpesvirus type 2 (EHV-2) infections. Borchers K, et al. **Arch Virol** 1997; 142(5):917-28

Epstein-Barr virus-associated Hodgkin's disease: epidemiologic characteristics in international data. Glaser SL, et al. **Int J Cancer** 1997 Feb 7;70(4):375-82

Infection with AIDS-related herpesviruses in human immunodeficiency virus-negative infants and endemic childhood Kaposi's sarcoma in Africa. Kasolo FC, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):847-55

Human herpesvirus 8 infection occurs following adolescence in the United States. Blauvelt A, et al. **J Infect Dis** 1997 Sep;176(3):771-4

Antibodies to human herpesvirus type 8 in the general population and in Kaposi's sarcoma patients [see comments] Lennette ET, et al. **Lancet** 1996 Sep 28;348(9031):858-61 . Comment in: Lancet 1996 Dec 7;348(9041):1587-8.

Epstein Barr virus in Argentine pediatric Hodgkin's disease. Preciado MV, et al. **Leuk Lymphoma** 1997 Jan; 24(3-4):283-90 (56 ref.)

Human herpes virus 8 (Kaposi's sarcoma herpes virus) and malignant lymphoproliferations in France: a molecular study of 250 cases including two AIDS-associated body cavity based lymphomas. Gessain A, et al. **Leukemia** 1997 Feb;11(2):266-72

Breast milk is not a significant source for early Epstein-Barr virus or human herpesvirus 6 infection in infants: a seroepidemiologic study in 2 endemic areas of human T-cell lymphotropic virus type I in Japan. Kusuhara K, et al. **Microbiol Immunol** 1997;41(4):309-12

Seroepidemiology of human herpesvirus 6 in a population seen in the University Hospital, Kuala Lumpur, Malaysia. Chua KB, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):91-5

Human herpesvirus-6 infection in liver transplant recipients: documentation of pathogenicity. Singh N, et al. **Transplantation** 1997 Sep 15;64(5):674-8

[Advances in the research on seroepidemiology of human herpesvirus-6 infections] Wang L, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):169-71 (19 ref.) **(Chi)**

[An epidemiological study of herpetic viral infections in the Republic of Byelarus] Kolomiets AG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May-Jun; (3):24-9 (Eng. Abstr.) **(Rus)**

[Prevalence of human herpesvirus 7 in Mexican blood donors] Rojo Medina J, et al. **Rev Invest Clin** 1995 Nov-Dec; 47(6):467-71 (Eng. Abstr.) **(Spa)**

ETHNOLOGY

Extranodal head and neck lymphomas in Guatemala: high frequency of Epstein-Barr virus-associated sinonasal lymphomas. van de Rijn M, et al. **Hum Pathol** 1997 Jul; 28(7):834-9

ETIOLOGY

Atypical Epstein-Barr virus infection during and after intermittent FK506 therapy. Azuma H, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):222-5

The mechanism of Epstein-Barr virus infection in nasopharyngeal carcinoma cells. Lin CT, et al. **Am J Pathol** 1997 May;150(5):1745-56

Epstein-Barr virus. A serial killer or an innocent bystander? [editorial; comment] Sangüeza OP. **Arch Dermatol** 1997 Sep;133(9):1156-7 (17 ref.). Comment on: Arch Dermatol 1997 Sep;133(9):1081-6.

Duration of Epstein-Barr virus (EBV)-associated polyclonal lymphoproliferative disease (LPD) following bone marrow transplantation [letter] Imashuku S, et al. **Bone Marrow Transplant** 1996 Oct;18(4):823-4

European survey of herpesvirus resistance to antiviral drugs in bone marrow transplant recipients. Infectious Diseases Working Party of the European Group for Blood and Marrow Transplantation (EBMT). Reusser P, et al. **Bone Marrow Transplant** 1996 May;17(5):813-7

A new human herpesvirus as a factor in the pathogenesis of Kaposi's sarcoma and body-cavity lymphoma [comment] Sarris A. **Cancer J Sci Am** 1997 May-Jun; 3(3):140-1 (29 ref.). Comment on: Cancer J Sci Am 1997 May-Jun;3(3):153-6.

Human herpesvirus 6 infection. Huang LM, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan-Feb;38(1):1-7 (67 ref.)

Longitudinal study of human herpesvirus 6 infection in organ transplant recipients. Herbein G, et al. **Clin Infect Dis** 1996 Jan;22(1):171-3

Prednisone therapy is not associated with increased risk of herpetic infections in patients infected with human immunodeficiency virus. Keiser P, et al. **Clin Infect Dis** 1996 Jul;23(1):201-2

Variant A human herpesvirus six as a cofactor in the pathogenesis of AIDS [letter] Carrigan DR, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Sep; 13(1):97-8

Epstein-Barr virus-associated post-transplant lympho-proliferative disease of donor origin in liver transplant recipients. Strazzabosco M, et al. **J Hepatol** 1997 Apr;26(4):926-34

Epstein-Barr virus lymphoproliferative disorder in children with leukemia: case report and review of the literature. Mustafa MM, et al. **J Pediatr Hematol Oncol** 1997 Jan-Feb; 19(1):77-81

Epstein-Barr virus (EBV)-associated hepatic and splenic smooth muscle tumours after kidney transplantation. Morel D, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1864-6

[Opportunistic lymphoma] Katano H, et al. **Nippon Rinsho** 1997 Feb;55(2):441-5 (17 ref.) (Eng. Abstr.) **(Jpn)**

[New human herpes viruses and relevant pathology] Kolomiets AG, et al. **Klin Med (Mosk)** 1997;75(1):10-4 (30 ref.) **(Rus)**

[Lymphoproliferative syndromes associated to the Epstein Barr virus in organ transplants] Hidalgo M, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):310-6 (116 ref.) **(Spa)**

GENETICS

Coinfection of the central nervous system by cytomegalovirus and herpes simplex virus type 1 or 2 in AIDS patients: autopsy study on 82 cases by immunohistochemistry and polymerase chain reaction. Vago L, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):404-8

Genomic alterations in nasopharyngeal carcinoma: loss of heterozygosity and Epstein-Barr virus infection. Mutirangura A, et al. **Br J Cancer** 1997;76(6):770-6

Pathogenesis of chronic Epstein-Barr virus infection: detection of a virus strain with a high rate of lytic replication. Jäger M, et al. **Br J Haematol** 1996 Dec; 95(4):626-36

A herpes simplex virus type 1 mutant with a deletion immediately upstream of the LAT locus establishes latency and reactivates from latently infected mice with normal kinetics [see comments] Maggioncalda J, et al. **J Neurovirol** 1996 Aug;2(4):268-78. Comment in: J Neurovirol 1996 Aug;2(4):225-9.

Analysis of herpes simplex virus type 1 glycoprotein D nucleotide sequence in human herpes simplex encephalitis [see comments] Rozenberg F, et al. **J Neurovirol** 1996 Aug; 2(4):289-95. Comment in: J Neurovirol 1996 Aug;2(4):225-9.

Multiprimed cDNA synthesis followed by PCR is the most suitable method for Epstein-Barr virus transcript analysis in small lymphoma biopsies. Brink AA, et al. **Mol Cell Probes** 1997 Feb;11(1):39-47

[Sequence analysis of the carboxy terminal of the Epstein-Barr virus LMP-1 oncogene in Epstein-Barr virus associated disorders] Itakura O, et al. **Nippon Rinsho** 1997 Feb;55(2):467-72 (15 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

EBV-B cell interactions: immortalization, rescue from apoptosis, tumorigenicity (a short review). Klein G. **Acta Microbiol Immunol Hung** 1996;43(2-3):97-105 (37 ref.)

Coinfection of the central nervous system by cytomegalovirus and herpes simplex virus type 1 or 2 in AIDS patients: autopsy study on 82 cases by immunohistochemistry and polymerase chain reaction. Vago L, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):404-8

Dramatic efficacy of antithymocyte globulins in childhood EBV-associated haemophagocytic syndrome [letter] Perel Y, et al. **Acta Paediatr** 1997 Aug;86(8):911

Effect of immunosuppression on Balb/c mice infected with murine herpesvirus. Mistríková J, et al. **Acta Virol** 1996 Feb;40(1):41-4

Cystic smooth-muscle tumor of the liver and spleen associated with Epstein-Barr virus after renal transplantation. Le Bail B, et al. **Am J Surg Pathol** 1996 Nov;20(11):1418-25

Human cytotoxic T lymphocyte responses to Epstein-Barr

virus infection. Rickinson AB, et al. **Annu Rev Immunol** 1997;15:405–31 (135 ref.)

Serological and clinical findings in patients with serological evidence of reactivated Epstein–Barr virus infection. Obel N, et al. **APMIS** 1996 Jun;104(6):424–8

Characterization of platelet–reactive antibodies in children with varicella–associated acute immune thrombocytopenic purpura (ITP). Wright JF, et al. **Br J Haematol** 1996 Oct; 95(1):145–52

Interferon–gamma (IFN–gamma) regulates production of IL–10 and IL–12 in human herpesvirus–6 (HHV–6)–infected monocyte/macrophage lineage. Li C, et al. **Clin Exp Immunol** 1997 Sep;109(3):421–5

Antibody responses to two Epstein–Barr virus (EBV) nuclear antigens (EBNA–1 and EBNA–2) during EBV primary infection in children born to mothers infected with human immunodeficiency virus. Pedneault L, et al. **Clin Infect Dis** 1996 Oct;23(4):806–8

Editorial response: periodic illness associated with Epstein–Barr virus infection [editorial; comment] Sumaya CV. **Clin Infect Dis** 1996 Jan;22(1):28–9. Comment on: Clin Infect Dis 1996 Jan;22(1):22–7.

Structure and pathophysiology of the erythrocyte membrane–associated Paul–Bunnell heterophile antibody determinant in Epstein–Barr virus–associated disease. Patarca R, et al. **Crit Rev Oncog** 1995;6(3–6):305–26

Human immunoglobulin preparations suppress the occurrence of Epstein–Barr virus–associated lymphoproliferation. Nadal D, et al. **Exp Hematol** 1997 Mar;25(3):223–31

A mouse cytomegalovirus glycoprotein retains MHC class I complexes in the ERGIC/cis–Golgi compartments. Ziegler H, et al. **Immunity** 1997 Jan;6(1):57–66

Masters of deception: a review of herpesvirus immune evasion strategies. Davis–Poynter NJ, et al. **Immunol Cell Biol** 1996 Dec;74(6):513–22 (85 ref.)

Mechanisms of interference with the MHC class I–restricted pathway of antigen presentation by herpesviruses. Hill AB. **Immunol Cell Biol** 1996 Dec;74(6):523–6 (27 ref.)

Factors that influence activated CD8+ T–cell apoptosis in patients with acute herpesvirus infections: loss of costimulatory molecules CD28, CD5 and CD6 but relative maintenance of Bax and Bcl–X expression. Borthwick NJ, et al. **Immunology** 1996 Aug;88(4):508–15

Transforming growth factor–beta induced by live or ultraviolet–inactivated equid herpes virus type–1 mediates immunosuppression in the horse. Charan S, et al. **Immunology** 1997 Apr;90(4):586–91

Characteristics of a murine gammaherpesvirus infection immunocompromised mice. Kulkarni AB, et al. **In Vivo** 1997 Jul–Aug;11(4):281–91

Determination of HLA–A*02 antigen status in Hodgkin's disease and analysis of an HLA–A*02–restricted epitope of the Epstein–Barr virus LMP–2 protein. Bryden H, et al. **Int J Cancer** 1997 Aug 7;72(4):614–8

Epitope–dependent selection of highly restricted or diverse T cell receptor repertoires in response to persistent infection by Epstein–Barr virus. Campos–Lima PO, et al. **J Exp Med** 1997 Jul 7;186(1):83–9

Characterization of early cytokine responses and an interleukin (IL)–6–dependent pathway of endogenous glucocorticoid induction during murine cytomegalovirus infection. Ruzek MC, et al. **J Exp Med** 1997 Apr 7; 185(7):1185–92

Immediate early and early lytic cycle proteins are frequent targets of the Epstein–Barr virus–induced cytotoxic T cell response. Steven NM, et al. **J Exp Med** 1997 May 5; 185(9):1605–17

Effect of host genotype in determining the relative roles of natural killer cells and T cells in mediating protection against murine cytomegalovirus infection. Lathbury LJ, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2605–13

Cloning and expression of the Epstein–Barr virus–encoded dUTPase: patients with acute, reactivated or chronic virus infection develop antibodies against the enzyme. Sommer P, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2795–805

Immunological control of murine gammaherpesvirus infection is independent of perforin. Usherwood EJ, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2025–30

Human herpesvirus 7 infection of CD4+(+) T cells does not require expression of the OKT4 epitope. Yasukawa M, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3103–6

Detection of serum antibodies to a Kaposi's sarcoma–associated herpesvirus–specific peptide. Davis DA, et al. **J Infect Dis** 1997 May;175(5):1071–9

Murine cytomegalovirus replication in the lungs of athymic BALB/c nude mice. Shanley JD, et al. **J Infect Dis** 1997 Feb;175(2):309–15

Evaluation of multiple antibodies to Epstein–Barr virus as markers for detecting patients with nasopharyngeal carcinoma. Liu MY, et al. **J Med Virol** 1997 Jul;52(3):262–9

Hodgkin disease occurring in a patient with extremely high serum antibody titers to Epstein–Barr virus—associated antigens without chronic illness. Azuma H, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):387–91

Protease–deficient herpes simplex virus protects mice from lethal herpesvirus infection. Hippenmeyer PJ, et al. **J Virol** 1997 Feb;71(2):988–95

Hierarchy of Epstein–Barr virus–specific cytotoxic T–cell responses in individuals carrying different subtypes of an HLA allele: implications for epitope–based antiviral vaccines. Khanna R, et al. **J Virol** 1997 Oct;71(10):7429–35

Peptide transporter (TAP–1 and TAP–2)–independent endogenous processing of Epstein–Barr virus (EBV) latent membrane protein 2A: implications for cytotoxic T–lymphocyte control of EBV–associated malignancies. Khanna R, et al. **J Virol** 1996 Aug;70(8):5357–62

Gamma interferon is not essential for recovery from acute infection with murine gammaherpesvirus 68. Sarawar SR, et al. **J Virol** 1997 May;71(5):3916–21

Two 21–kilodalton components of the Epstein–Barr virus capsid antigen complex and their relationship to ZEBRA–associated protein p21 (ZAP21). Serio TR, et al. **J Virol** 1996 Nov;70(11):8047–54

The extracellular domain of the Epstein–Barr virus BZLF2 protein binds the HLA–DR beta chain and inhibits antigen presentation. Spriggs MK, et al. **J Virol** 1996 Aug; 70(8):5557–63

Mature B cells are required for acute splenic infection, but not for establishment of latency, by murine gammaherpesvirus 68. Weck KE, et al. **J Virol** 1996 Oct; 70(10):6775–80

Frequency of multiple Epstein–Barr virus infections in T–cell–immunocompromised individuals. Yao QY, et al. **J Virol** 1996 Aug;70(8):4884–94

Glycoprotein gE blocking ELISAs to differentiate between Aujeszky's disease–vaccinated and infected animals. Morenkov OS, et al. **J Virol Methods** 1997 Apr;65(1):83–94

Prevalence of Herpesvirus papio 2 in baboons and identification of immunogenic viral polypeptides. Eberle R, et al. **Lab Anim Sci** 1997 Jun;47(3):256–62

Effects of CD40 stimulation in the prevention of human EBV–lymphomagenesis. Funakoshi S, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):187–99 (32 ref.)

Post–transplant EBV induced lymphoproliferative disorders. Lucas KG, et al. **Leuk Lymphoma** 1997 Mar;25(1–2):1–8 (68 ref.)

Adoptive immunotherapy for Epstein–Barr virus–related lymphoma. Smith CA, et al. **Leuk Lymphoma** 1996 Oct; 23(3–4):213–20 (31 ref.)

Low prevalence of circulating anti–type 6 human herpes virus IgG–antibodies in Spanish children. Roldan C, et al. **Microbios** 1996;86(349):233–6

Productive HHV–6 infection in differentiated U937 cells: role of TNF alpha in regulation of HHV–6. Arena A, et al. **New Microbiol** 1997 Jan;20(1):13–20

Prolonged viremia and immune response to human herpesvirus 7 in an infant with liver dysfunction. Torigoe S, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):398–400

IL12 in acute viral infectious disease. Biron CA, et al. **Res Immunol** 1995 Sep–Oct;146(7–8):590–600 (37 ref.)

Herpesviruses and AIDS. Griffiths PD. **Scand J Infect Dis Suppl** 1996;100:3–7 (46 ref.)

Autologous lymphokine–activated killer cell therapy of Epstein–Barr virus–positive and –negative lymphoproliferative disorders arising in organ transplant recipients. Nalesnik MA, et al. **Transplantation** 1997 May 15;63(9):1200–5

Regulation of Epstein–Barr virus latency by latent membrane protein 2. Longnecker R, et al. **Trends Microbiol** 1996 Jan; 4(1):38–42 (59 ref.)

How viruses hide from T cells. McMichael A. **Trends Microbiol** 1997 Jun;5(6):211–2; discussion 212–3 (20 ref.)

Cell–mediated cytolysis of equine herpesvirus–infected cells by leukocytes from young vaccinated horses. Ellis JA, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):201–14

Residence and recruitment of leucocytes to the equine lung after EHV–1 infection. Kydd JH, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1–2):15–26

Antibody isotype responses to experimental infection with bovine herpesvirus 1 in calves with colostrally derived antibody. Bradshaw BJ, et al. **Vet Microbiol** 1996 Nov; 53(1–2):143–51

Persistence of antibodies against bovine herpesvirus 1 and virus reactivation two to three years after infection. Kaashoek MJ, et al. **Vet Microbiol** 1996 Nov; 53(1–2):103–10

Early immunity induced by a live gE–negative bovine herpesvirus 1 marker vaccine. Kaashoek MJ, et al. **Vet Microbiol** 1996 Nov;53(1–2):191–7

[Immunodeficiency and carcinogenesis in patients with chronic active Epstein–Barr virus infection] Nagafuchi S, et al. **Kansenshogaku Zasshi** 1997 Jan;71(1):56–64 (Eng. Abstr.) **(Jpn)**

[EB virus infection] Kawa K. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):583–7 (4 ref.) **(Jpn)**

METABOLISM

Full presence of Epstein–Bar virus (EBV)–encoded latent proteins in tissues from a patient with severe chronic active EBV infection syndrome. Okano M, et al. **Acta Haematol** 1997;97(4):242–3

Altered p53 expression in Epstein Barr virus positive T cell lymphomas. Lee JH, et al. **J Korean Med Sci** 1995 Dec; 10(6):399–405

Altered expression and changing distribution of the nerve growth associated protein GAP–43 during ocular HSV–1 infection in the rabbit. Martin RE, et al. **J Neurovirol** 1996 Apr;2(2):127–35

PATHOLOGY

Disordered migration and loss of virus–infected neuronal cells in developing mouse brains infected with murine cytomegalovirus. Shinmura Y, et al. **Acta Neuropathol (Berl)** 1997 Jun;93(6):551–7

Effect of a retroviral immunodeficiency syndrome on murine cytomegalovirus–induced hepatitis. Peacock CD, et al. **Am J Pathol** 1997 Mar;150(3):1089–100

Clinicopathologic manifestations of Epstein–Barr virus–associated cutaneous lymphoproliferative disorders [see comments] Iwatsuki K, et al. **Arch Dermatol** 1997 Sep; 133(9):1081–6. Comment in: Arch Dermatol 1997 Sep;133(9):1156–7.

Analysis of apoptosis morphology in Epstein–Barr virus positive and negative Burkitt's lymphoma cells. Ishii H, et al. **Arch Histol Cytol** 1997 Jun;60(2):143–52

Angioimmunoblastic lymphadenopathy–like T–cell lymphoma. A case report and immunologic study. Kanzaki Y, et al. **Auris Nasus Larynx** 1997 Apr;24(2):199–206

Establishment and characterization of a primary effusion (body cavity–based) lymphoma cell line (BC–3) harboring kaposi's sarcoma–associated herpesvirus (KSHV/HHV–8) in the absence of Epstein–Barr virus. Arvanitakis L, et al. **Blood** 1996 Oct 1;88(7):2648–54

HHV–8–positive body–cavity–based lymphoma: a novel lymphoma entity. Carbone A, et al. **Br J Haematol** 1997 Jun;97(3):515–22 (40 ref.)

Primary lymphoepithelioma–like carcinoma of the lung in a child. Report of an Epstein–Barr virus–related neoplasm. Curcio LD, et al. **Chest** 1997 Jan;111(1):250–1

The Epstein–Barr virus in malignant non–Hodgkin's lymphoma of the upper aerodigestive tract. Ott G, et al. **Diagn Mol Pathol** 1997 Jun;6(3):134–9

Endoscopic and pathologic features of Epstein–Barr virus–associated gastric carcinoma. Yanai H, et al. **Gastrointest Endosc** 1997 Mar;45(3):236–42

Nasal and nasal–type T/NK cell lymphoma: a unique form of lymphoma associated with the Epstein–Barr virus [comment] Jaffe ES. **Histopathology** 1995 Dec;27(6):581–3 . Comment on: Histopathology 1995 Aug;27(2):139–48.

Lymphomatoid granulomatosis: evidence that some cases represent Epstein–Barr virus–associated B–cell lymphoma. Nicholson AG, et al. **Histopathology** 1996 Oct;29(4):317–24

Posttransplant lymphoproliferative disorder in liver allograft biopsies: a comparison of three methods for the demonstration of Epstein–Barr virus. Lones MA, et al. **Hum Pathol** 1997 May;28(5):533–9

Cardio–histopathological observations on aborted equine fetuses infected with equid herpesvirus 1 (EHV–1). Machida N, et al. **J Comp Pathol** 1997 May;116(4):379–85

Manifestations of relapsing Epstein–Barr virus illness. Simon MW. **J Ky Med Assoc** 1997 Jun;95(6):240–3

Pathological changes in the spleens of gamma interferon receptor–deficient mice infected with murine gammaherpesvirus: a role for CD8 T cells. Dutia BM, et al. **J Virol** 1997 Jun;71(6):4278–83

Childhood Hodgkin's disease in the United States: an analysis of histologic subtypes and association with Epstein–Barr virus. Andriko JA, et al. **Mod Pathol** 1997 Apr;10(4):366–71

Morphological characteristics of Epstein–Barr virus–related early gastric carcinoma: a case–control study. Arikawa J, et al. **Pathol Int** 1997 Jun;47(6):360–7

A case of human herpesvirus–6 lymphadenitis with infectious mononucleosis–like syndrome. Sumiyoshi Y, et al. **Pathol Int** 1995 Dec;45(12):947–51

Epstein–Barr virus (EBV)–induced CD30+ natural killer cell–type malignancy resembling malignant histiocytosis: malignant transformation in chronic active EBV infection associating hypogammaglobulinemia. Tsutsumi Y, et al. **Pathol Int** 1997 Jun;47(6):384–92

Heterogeneity of systemic extra–nodal Epstein–Barr virus–associated lympho–histiocytic tumor—ten autopsy cases of human immunodeficiency virus–negative Japanese. Ohshima K, et al. **Pathol Res Pract** 1997;193(4):257–65

Morphologic differences between latent membrane protein–1 (LMP–1)–positive and negative tumour cells in Epstein–Barr virus (EBV)–related childhood Hodgkin's disease. A morphometric study. Panayiotides J, et al. **Pathol Res Pract** 1996 Mar;192(3):210–4

Pathology of chronic herpes infection associated with seizure disorder: a report of two cases with tissue detection of herpes simplex virus 1 by the polymerase chain reaction. Jay V, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb; 15(1):131–46

Placental examination in intrauterine coinfection with herpes simplex virus and cytomegalovirus. Mühlemann K, et al. **Pediatr Pathol Lab Med** 1996 Nov–Dec;16(6):935–9

[Diagnosis of Epstein–Barr virus–associated gastric carcinoma and its background gastric mucosa] Yanai H, et al. **Nippon Rinsho** 1997 Feb;55(2):374–80 (31 ref.) (Eng. Abstr.) **(Jpn)**

PHYSIOPATHOLOGY

Rescue of HSV–1 neurovirulence is associated with induction of brain interleukin–1 expression, prostaglandin synthesis and neuroendocrine responses [see comments] Ben–Hur T, et al. **J Neurovirol** 1996 Aug;2(4):279–88. Comment in: J Neurovirol 1996 Aug;2(4):225–9.

Herpetic viruses and spontaneous recovery in melanoma. Motofei IG. **Med Hypotheses** 1996 Aug;47(2):85–8

Epstein Barr virus associated posttransplant

lymphoproliferative disease after intestinal transplantation. Reyes J, et al. **Transplant Proc** 1996 Oct;28(5):2768–9

Construction and characterization of an attenuated bovine herpesvirus type 1 (BHV–1) recombinant virus. Chowdhury SI. **Vet Microbiol** 1996 Sep;52(1–2):13–23

PREVENTION & CONTROL

Lactoferrin–mediated protection of the host from murine cytomegalovirus infection by a T–cell–dependent augmentation of natural killer cell activity. Shimizu K, et al. **Arch Virol** 1996;141(10):1875–89

Serum responses to the combination of Epstein–Barr virus antigens from both latent and acute phases in nasopharyngeal carcinoma: complementary test of EBNA–1 with EA–D. Chow KC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):363–8

Adoptive transfer of murine cytomegalovirus–immune lymph node cells prevents retinitis in T–cell–depleted mice. Lu Y, et al. **Invest Ophthalmol Vis Sci** 1997 Feb;38(2):301–10

Issues related to development of Epstein–Barr virus vaccines. Spring SB, et al. **J Natl Cancer Inst** 1996 Oct 16; 88(20):1436–41 (66 ref.)

Interleukin–12 exhibits potent antiviral activity in experimental herpesvirus infections. Carr JA, et al. **J Virol** 1997 Oct;71(10):7799–803

DNA immunization confers protection against murine cytomegalovirus infection. González Armas JC, et al. **J Virol** 1996 Nov;70(11):7921–8

Red blood cells as delivery system for recombinant HSV–1 glycoprotein B: immunogenicity and protection in mice. Chiarantini L, et al. **Vaccine** 1997 Feb;15(3):276–80

A quantitative study of the efficacy of a deletion mutant bovine herpesvirus–1 differential vaccine in reducing the establishment of latency by wildtype virus. Galeota JA, et al. **Vaccine** 1997 Feb;15(2):123–8

Protective immunity in cattle following vaccination with conventional and marker bovine herpesvirus–1 (BHV1) vaccines. van Drunen Littel–van den Hurk S, et al. **Vaccine** 1997 Jan;15(1):36–44

Mucosal and systemic immunity to bovine herpesvirus–1 glycoprotein D confer resistance to viral replication and latency in cattle. Zhu X, et al. **Vaccine** 1996 Jan;14(1):61–9

An equine herpesvirus–1 gene 71 deletant is attenuated and elicits a protective immune response in mice. Marshall KR, et al. **Virology** 1997 Apr 28;231(1):20–7

Induction of systemic and mucosal immune responses in cotton rats immunized with human adenovirus type 5 recombinants expressing the full and truncated forms of bovine herpesvirus type 1 glycoprotein gD. Mittal SK, et al. **Virology** 1996 Aug 15;222(2):299–309

Equine herpesvirus–1 strain KyA, a candidate vaccine strain, reduces viral titers in mice challenged with a pathogenic strain, RacL. Colle CF 3rd, et al. **Virus Res** 1996 Aug; 43(2):111–24

High level expression of equine herpesvirus 1 glycoproteins D and H and their role in protection against virus challenge in the C3H (H–2Kk) murine model. Stokes A, et al. **Virus Res** 1997 Aug;50(2):159–73

The production of a truncated form of baculovirus expressed EHV–1 glycoprotein C and its role in protection of C3H (H–2Kk) mice against virus challenge. Stokes A, et al. **Virus Res** 1996 Oct;44(2):97–109

[Features of formation of antiviral resistance upon local application of the interferon inducer ridostin] Masycheva VI, et al. **Vopr Virusol** 1997 May–Jun;42(3):126–8 (Eng. Abstr.) **(Rus)**

THERAPY

Use of anti HHV–6 transfer factor for the treatment of two patients with chronic fatigue syndrome (CFS). Two case reports. Ablashi DV, et al. **Biotherapy** 1996;9(1–3):81–6

Effect of anti–herpes specific transfer factor. Byston J, et al. **Biotherapy** 1996;9(1–3):73–5

The influence of age on transfer factor treatment of cellular immunodeficiency, chronic fatigue syndrome and/or chronic viral infections. Hana I, et al. **Biotherapy** 1996; 9(1–3):91–5

Lymphocytosis of donor origin in cerebrospinal fluid, and marrow aplasia after donor leukocyte infusion for EBV–lymphoproliferative disease. Gharpure V, et al. **Bone Marrow Transplant** 1996 Jul;18(1):221–4

Bone marrow transplantation for Epstein–Barr virus–related clonal T cell proliferation associated with hemophagocytosis [letter] Imashuku S, et al. **Bone Marrow Transplant** 1997 May;19(10):1059–60

Unsuccessful CTL transfusion in a case of post–BMT Epstein–Barr virus–associated lymphoproliferative disorder (EBV–LPD). Imashuku S, et al. **Bone Marrow Transplant** 1997 Aug;20(4):337–40

Adoptive cell therapy with donor lymphocytes for EBV–associated lymphomas developing after allogeneic marrow transplants. O'Reilly RJ, et al. **Important Adv Oncol** 1996;:149–66 (172 ref.)

Systemic cytokine immunotherapy for experimental cytomegalovirus retinitis in mice with retrovirus–induced immunodeficiency. Dix RD, et al. **Invest Ophthalmol Vis Sci** 1997 Jun;38(7):1411–7

Increased susceptibility to the pathogenic effects of wild–type and recombinant herpesviruses in MPS VII mice compared to normal siblings. Wolfe JH, et al. **J Neurovirol** 1996 Dec; 2(6):417–22

Adoptive immunotherapy for Epstein–Barr virus–related lymphoma. Smith CA, et al. **Leuk Lymphoma** 1996 Oct; 23(3–4):213–20 (31 ref.)

Control of virus–induced lymphoproliferation: Epstein–Barr virus–induced lymphoproliferation and host immunity. Rooney CM, et al. **Mol Med Today** 1997 Jan;3(1):24–30 (44 ref.)

Therapeutic approaches for severe Epstein–Barr virus infection. Okano M. **Pediatr Hematol Oncol** 1997 Mar–Apr; 14(2):109–19 (44 ref.)

Epstein–Barr virus as a therapeutic target in Hodgkin's disease and nasopharyngeal carcinoma. Ambinder RF, et al. **Semin Cancer Biol** 1996 Aug;7(4):217–26 (69 ref.)

Immunologic diagnostic and therapeutic aspects of cytomegalovirus, human herpes virus–6, and Epstein–Barr virus disease posttransplantation. Jacobs U, et al. **Transplant Proc** 1996 Dec;28(6):3238

Red blood cells as delivery system for recombinant HSV–1 glycoprotein B: immunogenicity and protection in mice. Chiarantini L, et al. **Vaccine** 1997 Feb;15(3):276–80

[Epstein–Barr virus infection and lymphoproliferative disorders in patients after renal transplantation] Merlino C, et al. **Minerva Urol Nefrol** 1996 Sep;48(3):139–43 (Eng. Abstr.) **(Ita)**

[Adoptive immune therapy using EBV–specific CTL] Kuzushima K, et al. **Nippon Rinsho** 1997 Feb;55(2):473–8 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Laferon in the treatment of meningoencephalitis] Rudenko AA, et al. **Lik Sprava** 1995 Mar–Apr;(3–4):109–12 (Eng. Abstr.) **(Rus)**

TRANSMISSION

Transmission of equine herpesvirus 2 to the mouse: characterization of a new laboratory infection model. Rizvi SM, et al. **J Gen Virol** 1997 May;78 (Pt 5):1119–24

Study of mother–to–child Epstein–Barr virus transmission by means of nested PCRs. Meyohas MC, et al. **J Virol** 1996 Oct;70(10):6816–9

Transfusional risk of HHV–8 infection [letter; comment] Lefrère JJ, et al. **Lancet** 1997 Jul 19;350(9072):217. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Blood donations and viruses [letter; comment] Operskalski EA, et al. **Lancet** 1997 May 3;349(9061):1327. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Breast milk is not a significant source for early Epstein–Barr virus or human herpesvirus 6 infection in infants: a seroepidemiologic study in 2 endemic areas of human T–cell lymphotropic virus type I in Japan. Kusuhara K, et al. **Microbiol Immunol** 1997;41(4):309–12

Sheep do not have a major role in bovine herpesvirus 1 transmission. Hage JJ, et al. **Vet Microbiol** 1997 Jun 30; 57(1):41–54

VETERINARY

Use of transabdominal ultrasound–guided amniocentesis for detection of equid herpesvirus 1–induced fetal infection in utero. Smith KC, et al. **Am J Vet Res** 1997 Sep; 58(9):997–1002

Use of nested polymerase chain reaction to identify feline herpesvirus in ocular tissue from clinically normal cats and cats with corneal sequestra or conjunctivitis. Stiles J, et al. **Am J Vet Res** 1997 Apr;58(4):338–42

Distribution and relevance of equine herpesvirus type 2 (EHV–2) infections. Borchers K, et al. **Arch Virol** 1997; 142(5):917–28

Diagnosis of equine herpesvirus 1 abortion using polymerase chain reaction. Mackie JT, et al. **Aust Vet J** 1996 Nov; 74(5):390–1

Ccmparison of diagnostic tests for infectious laryngotracheitis. Abbas F, et al. **Avian Dis** 1996 Apr–Jun; 40(2):290–5

The early history of infectious laryngotracheitis. Cover MS. **Avian Dis** 1996 Jul–Sep;40(3):494–500

Evaluation of ELISA titers to infectious laryngotracheitis. Sander JE, et al. **Avian Dis** 1997 Apr–Jun;41(2):429–32

Inactivated vaccine for protection against duck virus enteritis. Shawky SA, et al. **Avian Dis** 1997 Apr–Jun; 41(2):461–8

Efficacy of an experimental BHV–1 subunit gIV vaccine in beef calves challenged with BHV–1 in aerosol. Van Donkersgoed J, et al. **Can J Vet Res** 1996 Jan;60(1):55–8

Equine herpesvirus type 2: prevalence and seroepidemiology in foals [see comments] Murray MJ, et al. **Equine Vet J** 1996 Nov;28(6):432–6. Comment in: Equine Vet J 1996 Nov;28(6):426–8.

Equine herpesvirus 2 and disease [editorial; comment] Studdert MJ. **Equine Vet J** 1996 Nov;28(6):426–8. Comment on: Equine Vet J 1996 Nov;28(6):432–6.

Transforming growth factor–beta induced by live or ultraviolet–inactivated equid herpes virus type–1 mediates immunosuppression in the horse. Charan S, et al. **Immunology** 1997 Apr;90(4):586–91

Application of polymerase chain reaction (PCR) for diagnosis of equine herpes virus–1 (EHV–1). Gupta AK, et al. **Indian J Exp Biol** 1996 Nov;34(11):1077–80

Multiple abortions associated with caprine herpesvirus infection in a goat herd. Williams NM, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):89–91

Supplemental dietary chromium does not influence ACTH, cortisol, or immune responses in young calves inoculated with bovine herpesvirus–1. Arthington JD, et al. **J Anim Sci** 1997 Jan;75(1):217–23

Effects of B vitamin injections on plasma B vitamin concentrations of feed–restricted beef calves infected with bovine herpesvirus–1. Dubeski PL, et al. **J Anim Sci** 1996 Jun;74(6):1358–66

Effects of B vitamin injection on bovine herpesvirus–1 infection and immunity in feed–restricted beef calves. Dubeski PL, et al. **J Anim Sci** 1996 Jun;74(6):1367–74

About the cellular tropism of the gammaherpesvirus bovine herpesvirus type 4 [letter; comment] Osorio FA, et al. **J Clin Microbiol** 1996 Dec;34(12):3253–4. Comment on: J Clin Microbiol 1996 May;34(5):1091–5.

Cardio–histopathological observations on aborted equine fetuses infected with equid herpesvirus 1 (EHV–1). Machida N, et al. **J Comp Pathol** 1997 May;116(4):379–85

Comparison of the effects of infectious bronchitis and infectious laryngotracheitis on the chicken respiratory tract. Nakamura K, et al. **J Comp Pathol** 1996 Jan; 114(1):11–21

A comparison of equid herpesvirus–1 (EHV–1) vascular lesions in the early versus late pregnant equine uterus. Smith KC, et al. **J Comp Pathol** 1996 Apr;114(3):231–47

Replication of equid herpesvirus–1 (EHV–1) in the testes and epididymides of ponies and venereal shedding of infectious virus. Tearle JP, et al. **J Comp Pathol** 1996 Nov; 115(4):385–97

Equine herpesvirus 4 DNA in trigeminal ganglia of naturally infected horses detected by direct in situ PCR. Borchers K, et al. **J Gen Virol** 1997 May;78 (Pt 5):1109–14

The pathogenesis of ED71, a defined deletion mutant of equine herpesvirus–1, in a murine intranasal infection model for equine abortion. Fitzmaurice T, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2167–9

Detection and distribution of equine herpesvirus 2 DNA in the central and peripheral nervous systems of ponies. Rizvi SM, et al. **J Gen Virol** 1997 May;78 (Pt 5):1115–8

Restriction endonuclease analysis of equine herpesvirus–1 isolates recovered in Ontario, 1986–1992, from aborted, stillborn, and neonatal foals. Nagy E, et al. **J Vet Diagn Invest** 1997 Apr;9(2):143–8

Analysis of bovine herpesvirus 1 transcripts during a primary infection of trigeminal ganglia of cattle. Schang LM, et al. **J Virol** 1997 Sep;71(9):6786–95

Rapid differentiation of vaccine strains and field isolates of infectious laryngotracheitis virus by restriction fragment length polymorphism of PCR products. Chang PC, et al. **J Virol Methods** 1997 Jul;66(2):179–86

Polymerase chain reaction amplification of the thymidine kinase and protein kinase–related genes of channel catfish virus and a putative pilchard herpesvirus. Tham KM, et al. **J Virol Methods** 1996 Sep;61(1–2):65–72

Herpesvirus particles associated with oral and respiratory lesions in a California desert tortoise (Gopherus agassizii). Pettan–Brewer KC, et al. **J Wildl Dis** 1996 Jul;32(3):521–6

Virulence of six strains of duck plague virus in eight waterfowl species. Spieker JO, et al. **J Wildl Dis** 1996 Jul; 32(3):453–60

Prevalence of Herpesvirus papio 2 in baboons and identification of immunogenic viral polypeptides. Eberle R, et al. **Lab Anim Sci** 1997 Jun;47(3):256–62

Bovine herpesvirus type–4 (BHV–4) persistently infects cells of the marginal zone of spleen in cattle. Lopez OJ, et al. **Microb Pathog** 1996 Jul;21(1):47–58

A quantitative study of the efficacy of a deletion mutant bovine herpesvirus–1 differential vaccine in reducing the establishment of latency by wildtype virus. Galeota JA, et al. **Vaccine** 1997 Feb;15(2):123–8

In vivo properties of a feline herpesvirus type 1 mutant carrying a lacZ insertion at the gI locus of the unique short segment. Willemse MJ, et al. **Vaccine** 1996 Jan;14(1):1–5

Equine herpesvirus 1 myeloencephalopathy. Wilson WD. **Vet Clin North Am Equine Pract** 1997 Apr;13(1):53–72 (82 ref.)

Cell–mediated cytolysis of equine herpesvirus–infected cells by leukocytes from young vaccinated horses. Ellis JA, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):201–14

Herpesviral abortion in domestic animals [see comments] Smith KC. **Vet J** 1997 May;153(3):253–68 (191 ref.). Comment in: Vet J 1997 May;153(3):239–44.

Immunology of bovine herpesvirus 1 infection. Babiuk LA, et al. **Vet Microbiol** 1996 Nov;53(1–2):31–42 (55 ref.)

An attenuated bovine herpesvirus 1 marker vaccine induces a better protection than two inactivated marker vaccines. Bosch JC, et al. **Vet Microbiol** 1996 Oct;52(3–4):223–34

Detection of canine herpesvirus 1 in a wide range of tissues using the polymerase chain reaction. Burr PD, et al. **Vet Microbiol** 1996 Dec;53(3–4):227–37

The role of glycoproteins gC, gE, gI, and gG in the induction of cell–mediated immune responses to bovine herpesvirus 1. Denis M, et al. **Vet Microbiol** 1996 Nov;53(1–2):121–32

Pathogenesis of ruminant herpesvirus infections. Engels M, et al. **Vet Microbiol** 1996 Nov;53(1–2):3–15 (53 ref.)

Population dynamics of bovine herpesvirus 1 infection in a dairy herd. Hage JJ, et al. **Vet Microbiol** 1996 Nov; 53(1–2):169–80

A European inter–laboratory trial to evaluate the reliability of serological diagnosis of bovine herpesvirus 1 infections. Kramps JA, et al. **Vet Microbiol** 1996 Nov;53(1–2):153–61

Effect of bovine herpesvirus–1 on expression of interleukin–2 receptors and effect of interleukin–12 on lymphocyte proliferation. Lan HC, et al. **Vet Microbiol** 1996 Mar; 49(1–2):59–66

Lack of virulence of the murine fibroblast adapted strain, Kentucky A (KyA), of equine herpesvirus type 1 (EHV-1) in young horses. Matsumura T, et al. **Vet Microbiol** 1996 Feb;48(3-4):353-65

Conclusions from the symposium. Mettenleiter TC. **Vet Microbiol** 1996 Nov;53(1-2):207-11

Establishment of a rabbit model for bovine herpesvirus type 5 neurological acute infection. Meyer G, et al. **Vet Microbiol** 1996 Jul;51(1-2):27-40

Equine herpesvirus type 2 (EHV-2) as a predisposing factor for Rhodococcus equi pneumonia in foals: prevention of the bifactorial disease with EHV-2 immunostimulating complexes. Nordengrahn A, et al. **Vet Microbiol** 1996 Jul; 51(1-2):55-68

Development of a disease control programme based on the use of an inactivated vaccine against infectious bovine rhinotracheitis. Pospíšil Z, et al. **Vet Microbiol** 1996 Nov; 53(1-2):199-206

Immunocytochemical study of the pathogenesis of Pacheco's parrot disease in budgerigars. Ramis A, et al. **Vet Microbiol** 1996 Sep;52(1-2):49-61

Rapid and high sensitivity test for direct detection of bovine herpesvirus-1 genome in clinical samples. Santurde G, et al. **Vet Microbiol** 1996 Mar;49(1-2):81-92

Molecular virology of ruminant herpesviruses. Schwyzer M, et al. **Vet Microbiol** 1996 Nov;53(1-2):17-29 (83 ref.)

A gE deleted infectious bovine rhinotracheitis marker vaccine for use in improved bovine herpesvirus 1 control programs. Strube W, et al. **Vet Microbiol** 1996 Nov; 53(1-2):181-9

Advances in the development and evaluation of bovine herpesvirus 1 vaccines. van Oirschot JT, et al. **Vet Microbiol** 1996 Nov;53(1-2):43-54 (60 ref.)

Prevention of Rhodococcus equi pneumonia of foals using two different inactivated vaccines. Varga J, et al. **Vet Microbiol** 1997 Jun 16;56(3-4):205-12

Immunohistochemical demonstration of equine herpesvirus-1 antigen in neurons and astrocytes of horses with acute paralysis. Schultheiss PC, et al. **Vet Pathol** 1997 Jan; 34(1):52-4

Age-related disease in recurrent outbreak of phocid herpesvirus type-1 infections in a seal rehabilitation centre: evaluation of diagnostic methods. Harder TC, et al. **Vet Rec** 1997 May 10;140(19):500-3

Within-herd BHV-1 prevalence prediction from an ELISA on bulk milk. Hartman A, et al. **Vet Rec** 1997 May 3; 140(18):484-5

Detection of ovine herpesvirus 2 in Kenyan sheep by polymerase chain reaction. Mirangi PK, et al. **Vet Rec** 1997 Aug 16;141(7):176-7

Infectious pustular vulvovaginitis/infectious pustular balanoposthitis in cattle [letter] Pritchard G, et al. **Vet Rec** 1997 May 31;140(22):587

High sensitivity polymerase chain reaction assay for active and latent feline herpesvirus-1 infections in domestic cats. Weigler BJ, et al. **Vet Rec** 1997 Mar 29;140(13):335-8

Fatal herpesvirus infection in a hedgehog (Erinaceus europaeus). Widén F, et al. **Vet Rec** 1996 Sep 7; 139(10):237-8

Viral isolates derived from simian varicella epizootics are genetically related but are distinct from other primate herpesviruses. Gray WL, et al. **Virology** 1996 Oct 1; 224(1):161-6

Vaccination of cats for feline rhinotracheitis results in a quantitative reduction of virulent feline herpesvirus-1 latency load after challenge. Sussman MD, et al. **Virology** 1997 Feb 17;228(2):379-82

Direct detection of equine herpesvirus DNA in tissues of aborted equine fetuses. Ishiyama T, et al. **Zentralbl Veterinarmed [B]** 1996 Dec;43(10):639-42

An outbreak of Pacheco's parrot disease in psittacine birds recently imported to Campania, Italy: isolation of psittacid herpesvirus 2. Magnino S, et al. **Zentralbl Veterinarmed [B]** 1996 Dec;43(10):631-7

[Serological investigations in the diagnosis of viral infections derived from cattle in sheep] Bechmann G. **DTW Dtsch Tierarztl Wochenschr** 1997 Aug;104(8):321-4 (Eng. Abstr.) **(Ger)**

VIROLOGY

The implications of Epstein-Barr virus in multiple sclerosis--a review. Munch M, et al. **Acta Neurol Scand Suppl** 1997;169:59-64 (56 ref.)

Effect of immunosuppression on Balb/c mice infected with murine herpesvirus. Mistríková J, et al. **Acta Virol** 1996 Feb;40(1):41-4

Diagnostic importance of heterophile antibodies and immunoglobulins IgA, IgE, IgM and low-avidity IgG against Epstein-Barr virus capsid antigen in children. Votava M, et al. **Acta Virol** 1996 Apr;40(2):99-101

Childhood infections with human herpesviruses types 6, 7, and 8. Grose C. **Adv Pediatr Infect Dis** 1996;12:181-208 (69 ref.)

Kaposi's sarcoma-associated herpesvirus infection prior to onset of Kaposi's sarcoma. Moore PS, et al. **AIDS** 1996 Feb;10(2):175-80

Corrected prevalence of Kaposi's sarcoma (KS)-associated herpesvirus infection prior to onset of KS [letter] Parry JP, et al. **AIDS** 1997 Jan;11(1):127-8

Human herpesvirus type 8 DNA sequences in biological samples of HIV-positive and negative individuals in Sicily. Viviano E, et al. **AIDS** 1997 Apr;11(5):607-12

Detection of HHV-8 in Sjögren's syndrome. Dupin N, et al. **Am J Med** 1996 Dec;101(6):657-8

Detection of Epstein-Barr virus-infected mucosal lymphocytes in nasal polyps. Tao Q, et al. **Am J Pathol** 1996 Oct;149(4):1111-8

Epstein-Barr virus (EBV)-associated smooth-muscle tumor arising in a post-transplant patient treated successfully for two PT-EBV-associated large-cell lymphomas. Case report. Kingma DW, et al. **Am J Surg Pathol** 1996 Dec; 20(12):1511-9

Herpesvirus 6 variant A infection after heart transplantation with giant cell transformation in bile ductular and gastroduodenal epithelium. Randhawa PS, et al. **Am J Surg Pathol** 1997 Jul;21(7):847-53

Human herpesviruses at sixes, sevens, and more [editorial] Hall CB. **Ann Intern Med** 1997 Sep 15;127(6):481-3

The role of Epstein-Barr virus in the pathogenesis of Hodgkin's disease. Niedobitek G. **Ann Oncol** 1996;7 Suppl 4:11-7 (67 ref.)

Discrepancy between clinical and pathological lymph node evaluation in Epstein-Barr virus-associated gastric cancers. Ojima H, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3081-4

Differential sensitivity of culture and the polymerase chain reaction for detection of feline herpesvirus 1 in vaccinated and unvaccinated cats. Sykes JE, et al. **Arch Virol** 1997; 142(1):65-74

Human herpesvirus 6 (HHV-6)-positive Burkitt's lymphoma: establishment of a novel cell line infected with HHV-6. Bandobashi K, et al. **Blood** 1997 Aug 1;90(3):1200-7

Epstein-Barr virus strains with latent membrane protein-1 deletions: prevalence in the Italian population and high association with human immunodeficiency virus-related Hodgkin's disease. Dolcetti R, et al. **Blood** 1997 Mar 1; 89(5):1723-31

Epstein-Barr virus latent gene expression in primary effusion lymphomas containing Kaposi's sarcoma-associated herpesvirus/human herpesvirus-8. Horenstein MG, et al. **Blood** 1997 Aug 1;90(3):1186-91

Analysis of Epstein-Barr virus gene polymorphisms in normal donors and in virus-associated tumors from different geographic locations. Khanim F, et al. **Blood** 1996 Nov 1;88(9):3491-501

Epstein-Barr virus and familial Hodgkin's disease. Lin AY, et al. **Blood** 1996 Oct 15;88(8):3160-5

Primary non-Hodgkin's lymphoma of the intestine: high prevalence of Epstein-Barr virus in Mexican lymphomas as compared with European cases. Quintanilla-Martínez L, et al. **Blood** 1997 Jan 15;89(2):644-51

CpG methylation of the major Epstein-Barr virus latency promoter in Burkitt's lymphoma and Hodgkin's disease. Robertson KD, et al. **Blood** 1996 Oct 15;88(8):3129-36

Primary effusion lymphoma in women: report of two cases of Kaposi's sarcoma herpes virus-associated effusion-based lymphoma in human immunodeficiency virus-negative women. Said JW, et al. **Blood** 1996 Oct 15;88(8):3124-8

Epstein-Barr virus lytic infection in lymphocytes and the persistence of the virus [letter] Tao Q. **Blood** 1997 Sep 1; 90(5):2114-6

Kaposi's sarcoma-associated herpesvirus DNA sequences in AIDS-related and AIDS-unrelated lymphomatous effusions. Carbone A, et al. **Br J Haematol** 1996 Sep; 94(3):533-43

Rapid occurrence of lymphoproliferative disease after pancreas-kidney transplantation performed during acute primary Epstein-Barr virus infection. Kroes AC, et al. **Clin Infect Dis** 1997 Mar;24(3):339-43

Acute encephalitis due to human herpesvirus 6. Moschettini D, et al. **Clin Infect Dis** 1996 Aug;23(2):397-8

Epstein-Barr virus oncogenesis. Knecht H, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):117-35 (263 ref.)

The role of Epstein-Barr virus in lymphoid malignancies. Su IJ, et al. **Crit Rev Oncol Hematol** 1997 May;26(1):25-41 (148 ref.)

Epstein-Barr virus (EBV) and Hodgkin's disease in a multi-ethnic population in Malaysia. Peh SC, et al. **Histopathology** 1997 Mar;30(3):227-33

Masters of deception: a review of herpesvirus immune evasion strategies. Davis-Poynter NJ, et al. **Immunol Cell Biol** 1996 Dec;74(6):513-22 (85 ref.)

Mechanisms of interference with the MHC class I-restricted pathway of antigen presentation by herpesviruses. Hill AB. **Immunol Cell Biol** 1996 Dec;74(6):523-6 (27 ref.)

Association of the Epstein-Barr virus with Hodgkin's disease in Southern Israel. Benharroch D, et al. **Int J Cancer** 1997 Apr 10;71(2):138-41

Epstein-Barr virus in gastric carcinoma in Suzhou, China and Osaka, Japan: association with clinico-pathologic factors and HLA-subtype. Qiu K, et al. **Int J Cancer** 1997 Apr 10;71(2):155-8

Correlation between herpes and Epstein-Barr viruses and acute myocardial infarction [letter] Liguori A, et al. **Int J Cardiol** 1996 Dec 6;57(2):185-6

Herpesviruses and AIDS. Griffiths PD. **J Antimicrob Chemother** 1996 May;37 Suppl B:87-95 (48 ref.)

Detection of human Betaherpesvirinae in saliva and urine from immunocompromised and immunocompetent subjects. Gautheret-Dejean A, et al. **J Clin Microbiol** 1997 Jun;35(6):1600-3

Use of quantitative competitive PCR to measure Epstein-Barr virus genome load in the peripheral blood of pediatric transplant patients with lymphoproliferative disorders. Rowe DT, et al. **J Clin Microbiol** 1997 Jun; 35(6):1612-5

Prevalence of human herpesvirus 6 in lung tissue from children with pneumonitis. Hammerling JA, et al. **J Clin Pathol** 1996 Oct;49(10):802-4

Replication of equid herpesvirus-1 (EHV-1) in the testes and epididymides of ponies and venereal shedding of infectious virus. Tearle JP, et al. **J Comp Pathol** 1996 Nov; 115(4):385-97

Murine gammaherpesvirus 68 encodes tRNA-like sequences which are expressed during latency. Bowden RJ, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1675-87

Effect of natural sequence variation at the H-2Ld-restricted CD8+ T cell epitope of the murine cytomegalovirus ie1-encoded pp89 on T cell recognition. Lyons PA, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2615-23

Absence of splenic latency in murine gammaherpesvirus 68-infected B cell-deficient mice. Usherwood EJ, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2819-25

In situ detection of PCR-amplified HIV-1 and EBV nucleic acids in hyperplastic lymph nodes and in AIDS-related lymphoma. Becker JL, et al. **J Histochem Cytochem** 1996 Oct;44(10):1085-9

Murine cytomegalovirus replication in the lungs of athymic BALB/c nude mice. Shanley JD, et al. **J Infect Dis** 1997 Feb;175(2):309-15

Epstein-Barr virus and human herpesvirus 8 prevalence in human immunodeficiency virus-associated oral mucosal lesions. Webster-Cyriaque J, et al. **J Infect Dis** 1997 Jun; 175(6):1324-32

Detection of human herpes virus 6 in AIDS-associated retinitis by means of in situ hybridization, polymerase chain reaction and immunohistochemistry. Fillet AM, et al. **J Med Virol** 1996 Aug;49(4):289-95

Prevalence of human papillomavirus, cytomegalovirus, and Epstein-Barr virus in the cervix of healthy women. Gradilone A, et al. **J Med Virol** 1996 Sep;50(1):1-4

Seroepidemiological study of Epstein-Barr virus infection in Bangladesh. Haque T, et al. **J Med Virol** 1996 Jan; 48(1):17-21

Human herpesvirus-6 reactivation in a longitudinal study of two HIV-1 infected patients. Iuliano R, et al. **J Med Virol** 1997 Apr;51(4):259-64

ELISA for the detection of serum and saliva IgA against the BMRF1 gene product of Epstein-Barr virus. Nadala EC, et al. **J Med Virol** 1996 Sep;50(1):93-6

Search for human herpesvirus 6 and human cytomegalovirus in bronchoalveolar lavage from patients with human immunodeficiency virus-1 and respiratory disorders. Portolani M, et al. **J Med Virol** 1996 Feb;48(2):179-83

Seroepidemiological study of human herpesvirus-6 and -7 in children of different ages and detection of these two viruses in throat swabs by polymerase chain reaction. Tanaka-Taya K, et al. **J Med Virol** 1996 Jan;48(1):88-94

Bovine herpesviral encephalitis: a retrospective study on archived formalin-fixed, paraffin-embedded brain tissue. Ely RW, et al. **J Vet Diagn Invest** 1996 Oct;8(4):487-92

A simian varicella virus (SVV) homolog to varicella-zoster virus gene 21 is expressed in monkey ganglia latently infected with SVV. Clarke P, et al. **J Virol** 1996 Aug; 70(8):5711-5

Infection of primary CD4+ and CD8+ T lymphocytes by Epstein-Barr virus enhances human immunodeficiency virus expression. Guan M, et al. **J Virol** 1996 Oct; 70(10):7341-6

Latency versus persistence or intermittent recurrences: evidence for a latent state of murine cytomegalovirus in the lungs. Kurz S, et al. **J Virol** 1997 Apr;71(4):2980-7

Detection and variant identification of HHV-6 by a non-radioactive hybridization microplate assay for amplimers detection. Gautheret A, et al. **J Virol Methods** 1996 Apr 26;58(1-2):33-40

Development and application of HHV-6 antigen capture assay for the detection of HHV-6 infections. Marsh S, et al. **J Virol Methods** 1996 Sep;61(1-2):103-12

Competitive ELISA for detection of HHV-6 antibody: seroprevalence in a danish population. Nielsen L, et al. **J Virol Methods** 1996 Feb;56(2):221-30

Human herpesvirus 7 in pityriasis rosea [letter] Drago F, et al. **Lancet** 1997 May 10;349(9062):1367-8

Antibodies to human herpesvirus 8 in women and infants born in Haiti and the USA [letter] Goedert JJ, et al. **Lancet** 1997 May 10;349(9062):1368

HHV-8 serology and Kaposi's sarcoma [letter; comment] Gompels UA, et al. **Lancet** 1996 Dec 7;348(9041):1587-8 . Comment on: Lancet 1996 Sep 28;348(9031):858-61.

Human herpesvirus type-8 (HHV-8) in haematopoietic neoplasia. Gaidano G, et al. **Leuk Lymphoma** 1997 Jan; 24(3-4):257-66 (53 ref.)

Epstein-Barr virus in pediatric Hodgkin disease: age and histiotype are more predictive than geographic region. Razzouk BI, et al. **Med Pediatr Oncol** 1997 Apr; 28(4):248-54

High prevalence of a 30-base pair deletion and single-base mutations within the carboxy terminal end of the LMP-1 oncogene of Epstein-Barr virus in the Japanese population. Itakura O, et al. **Oncogene** 1996 Oct 3;13(7):1549-53

Isolation of new transmissible herpesvirus suggests additional therapeutic approaches for KS [news] **Oncology (Huntingt)** 1996 Mar;10(3):423-4

Latent infection with Epstein-Barr virus in odontogenic disorders: comparison among ameloblastoma, dentigerous

cyst and odontogenic keratocyst. Fujita S, et al. **Pathol Int** 1997 Jul;47(7):449–53

Malignant lymphoma induction of rabbits with oral spray of Epstein–Barr virus–related herpesvirus from Si–IIA cells (HTLV–II–transformed Cynomolgus cell line): a possible animal model for Epstein–Barr virus infection and subsequent virus–related tumors in humans. Koirala TR, et al. **Pathol Int** 1997 Jul;47(7):442–8

Pathology of chronic herpes infection associated with seizure disorder: a report of two cases with tissue detection of herpes simplex virus 1 by the polymerase chain reaction. Jay V, et al. **Pediatr Pathol Lab Med** 1995 Jan–Feb; 15(1):131–46

Compact Epstein–Barr virus diagnosis based on a defined antigen mix and specific IgA. Dopatka HD, et al. **Res Virol** 1996 Jan–Feb;147(1):53–66

Regulation of Epstein–Barr virus latency by latent membrane protein 2. Longnecker R, et al. **Trends Microbiol** 1996 Jan; 4(1):38–42 (59 ref.)

Mucosal and systemic immunity to bovine herpesvirus–1 glycoprotein D confer resistance to viral replication and latency in cattle. Zhu X, et al. **Vaccine** 1996 Jan;14(1):61–9

Chronic and recovered cases of sheep–associated malignant catarrhal fever in cattle. O'Toole D, et al. **Vet Rec** 1997 May 17;140(20):519–24

Detection of Epstein–Barr virus DNA in gastric carcinoma with lymphoid stroma. Jing X, et al. **Viral Immunol** 1997; 10(1):49–58 (23 ref.)

Murine cytomegalovirus DNA in peripheral blood of latently infected mice is detectable only in monocytes and polymorphonuclear leukocytes. Mitchell BM, et al. **Virology** 1996 Sep 1;223(1):198–207

Molecular studies of the acute infection, latency and reactivation of equine herpesvirus–1 (EHV–1) in the mouse model. Baxi MK, et al. **Virus Res** 1996 Jan;40(1):33–45

[Serologic signs of Epstein–Barr–virus infections in various patients without infectious mononucleosis] Ternák G, et al. **Orv Hetil** 1996 Jul 28;137(30):1633–6 (Eng. Abstr.) **(Hun)**

[News in virology for pediatricians (editorial)] Musso A, et al. **Minerva Pediatr** 1997 May;49(5):175–8 **(Ita)**

[Beta–herpesvirus (human cytomegalovirus and human herpesvirus 6) latent infection] Kondo K. **Uirusu** 1996 Dec; 46(2):161–8 (13 ref.) **(Jpn)**

[A case of gastric lymphoma in the course of Epstein–Barr virus infection] Radwan P, et al. **Pol Tyg Lek** 1996 Apr; 51(14–18):237–8 (Eng. Abstr.) **(Pol)**

HERPESVIRUS 1 (ALPHA), BOVINE see **HERPESVIRUS 1, BOVINE**

HERPESVIRUS 2 (ALPHA), BOVINE see **HERPESVIRUS 2, BOVINE**

HERPESVIRUS 1 (ALPHA), CANINE see **HERPESVIRUS 1, CANID**

HERPESVIRUS 1 (ALPHA), CERCOPITHECINE see **HERPESVIRUS 1, CERCOPITHECINE**

HERPESVIRUS 1 (ALPHA), EQUINE see **HERPESVIRUS 1, EQUID**

HERPESVIRUS 1 (ALPHA), GALLID see **HERPESVIRUS 1, GALLID**

HERPESVIRUS 1 (ALPHA), HUMAN see **HERPESVIRUS 1, HUMAN**

HERPESVIRUS 2 (ALPHA), HUMAN see **HERPESVIRUS 2, HUMAN**

HERPESVIRUS 3 (ALPHA), HUMAN see **HERPESVIRUS 3, HUMAN**

HERPESVIRUS 1 (ALPHA), SAIMIRINE see **SIMPLEXVIRUS**

HERPESVIRUS 1 (ALPHA), SUID see **HERPESVIRUS 1, SUID**

HERPESVIRUS B see **HERPESVIRUS 1, CERCOPITHECINE**

HERPESVIRUS 5 (BETA), HUMAN see **CYTOMEGALOVIRUS**

HERPESVIRUS 1 (BETA), MURID see **MUROMEGALOVIRUS**

HERPESVIRUS 1, BOVINE

Effects of B vitamin injections on plasma B vitamin concentrations of feed–restricted beef calves infected with bovine herpesvirus–1. Dubeski PL, et al. **J Anim Sci** 1996 Jun;74(6):1358–66

Effect of recombinant bovine interleukin–1 beta in normal calves and in calves infected with bovine herpesvirus type 1. Van Kessel AG, et al. **J Interferon Cytokine Res** 1996 Nov;16(11):881–90

Immunology of bovine herpesvirus 1 infection. Babiuk LA, et al. **Vet Microbiol** 1996 Nov;53(1–2):31–42 (55 ref.)

Population dynamics of bovine herpesvirus 1 infection in a dairy herd. Hage JJ, et al. **Vet Microbiol** 1996 Nov; 53(1–2):169–80

Sheep do not have a major role in bovine herpesvirus 1 transmission. Hage JJ, et al. **Vet Microbiol** 1997 Jun 30; 57(1):41–54

A European inter–laboratory trial to evaluate the reliability of serological diagnosis of bovine herpesvirus 1 infections. Kramps JA, et al. **Vet Microbiol** 1996 Nov;53(1–2):153–61

Conclusions from the symposium. Mettenleiter TC. **Vet Microbiol** 1996 Nov;53(1–2):207–11

Effect on milk production of vaccination with a bovine herpesvirus 1 gene–deleted vaccine. Bosch JC, et al. **Vet Rec** 1997 Feb 22;140(8):196–9

Infectious pustular vulvovaginitis/infectious pustular balanoposthitis in cattle [letter] Pritchard G, et al. **Vet Rec** 1997 May 31;140(22):587

[Serological investigations in the diagnosis of viral infections derived from cattle in sheep] Bechmann G. **DTW Dtsch Tierarztl Wochenschr** 1997 Aug;104(8):321–4 (Eng. Abstr.) **(Ger)**

CHEMISTRY

Unidirectional complementation between glycoprotein B homologues of pseudorabies virus and bovine herpesvirus 1 is determined by the carboxy–terminal part of the molecule. Miethke A, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1623–35

Bovine herpesvirus 1 glycoprotein B does not productively interact with cell surface heparan sulfate in a pseudorabies virion background. Klupp BG, et al. **J Virol** 1997 Jun; 71(6):4838–41

DRUG EFFECTS

The efficacy of trypsin for disinfection of in vitro fertilized bovine embryos exposed to bovine herpesvirus 1. Bielanski A, et al. **Anim Reprod Sci** 1997 May;47(1–2):1–8

Antiviral activity of crude extracts of Guarea guidona. Simoni IC, et al. **Braz J Med Biol Res** 1996 May; 29(5):647–50

ENZYMOLOGY

Purification of the infectious bovine rhinotracheitis virus alkaline deoxyribonuclease expressed in Escherichia coli. Chung YT, et al. **J Vet Med Sci** 1997 Jan;59(1):35–8

GENETICS

Restriction endonuclease analysis of DNA from Indian isolates of bovine herpesvirus 1. Sreenivasa BP, et al. **Acta Virol** 1996 Nov–Dec;40(5–6):315–8

Sequence analysis of the bovine herpesvirus type 1 genes homologous to the DNA polymerase (UL30), the major DNA–binding protein (UL29) and ICP18.5 assembly protein (UL28) genes of herpes simplex virus. Meyer G, et al. **Arch Virol** 1997;142(1):89–102

Bovine interleukins 2 and 4 expressed in recombinant bovine herpesvirus 1 are biologically active secreted glycoproteins. Kühnle G, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2231–40

Unidirectional complementation between glycoprotein B homologues of pseudorabies virus and bovine herpesvirus 1 is determined by the carboxy–terminal part of the molecule. Miethke A, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1623–35

Protective immunity of bovine herpesvirus–1 (BHV–1) recombinants which express pseudorabies virus (PRV) glycoproteins gB, gC, gD and gE. Otsuka H, et al. **J Vet Med Sci** 1996 Sep;58(9):819–24

Analysis of bovine herpesvirus 1 transcripts during a primary infection of trigeminal ganglia of cattle. Schang LM, et al. **J Virol** 1997 Sep;71(9):6786–95

Detection of viral genome in non–neural tissues of cattle experimentally infected with bovine herpesvirus 1. Mweene AS, et al. **Jpn J Vet Res** 1996 Dec;44(3):165–74

The UL2 open reading frame of bovine herpesvirus 1 encodes a uracil–DNA glycosylase. Chung YT, et al. **Microbiol Immunol** 1996;40(12):949–53

A quantitative study of the efficacy of a deletion mutant bovine herpesvirus–1 differential vaccine in reducing the establishment of latency by wildtype virus. Galeota JA, et al. **Vaccine** 1997 Feb;15(2):123–8

Construction and characterization of an attenuated bovine herpesvirus type 1 (BHV–1) recombinant virus. Chowdhury SI. **Vet Microbiol** 1996 Sep;52(1–2):13–23

Molecular virology of ruminant herpesviruses. Schwyzer M, et al. **Vet Microbiol** 1996 Nov;53(1–2):17–29 (83 ref.)

Gene contents in a 31–kb segment at the left genome end of bovine herpesvirus–1. Schwyzer M, et al. **Vet Microbiol** 1996 Nov;53(1–2):67–77 (30 ref.)

Virulence, immunogenicity and reactivation of seven bovine herpesvirus 1.1 strains: clinical and virological aspects. Kaashoek MJ, et al. **Vet Rec** 1996 Oct 26;139(17):416–21

Transcriptional and translational expression kinetics of the early gene encoding the BICP27 protein of bovine herpesvirus type 1. Chalifour A, et al. **Virology** 1996 Oct 1;224(1):326–9

Bovine herpesvirus 1 isolates contain variable copy numbers of GC–rich tandem repeats in the gI non–coding regions of their genomes. Nadin–Davis SA, et al. **Virus Genes** 1996; 13(3):263–8

A contribution to the systematization of bovine herpesvirus 1 based on genomic mapping by restriction fragment pattern analysis. Christensen LS, et al. **Virus Res** 1996 Dec; 46(1–2):177–82

Nucleotide sequence and transcriptional analysis of a portion of the bovine herpesvirus genome encoding genes homologous to HSV–1, UL25, UL26 and UL26.5. Haanes EJ, et al. **Virus Res** 1997 Apr;48(1):19–26

IMMUNOLOGY

Efficacy of an experimental BHV–1 subunit gIV vaccine in beef calves challenged with BHV–1 in aerosol. Van Donkersgoed J, et al. **Can J Vet Res** 1996 Jan;60(1):55–8

A non–specific defence inducer in preventing clinical signs of infectious bovine rhinotracheitis in calves. Castrucci G, et al. **Comp Immunol Microbiol Infect Dis** 1996 Jun; 19(3):163–9

Supplemental dietary chromium does not influence ACTH, cortisol, or immune responses in young calves inoculated with bovine herpesvirus–1. Arthington JD, et al. **J Anim Sci** 1997 Jan;75(1):217–23

Effects of B vitamin injection on bovine herpesvirus–1 infection and immunity in feed–restricted beef calves. Dubeski PL, et al. **J Anim Sci** 1996 Jun;74(6):1367–74

Development of immuno–PCR for diagnosis of bovine herpesvirus 1 infection. Mweene AS, et al. **J Clin Microbiol** 1996 Mar;34(3):748–50

Bovine herpesvirus–1 infects activated CD4+ lymphocytes. Eskra L, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2159–66

An enzyme–linked immunosorbent assay to detect antibodies against glycoprotein gE of bovine herpesvirus 1 allows differentiation between infected and vaccinated cattle. Van Oirschot JT, et al. **J Virol Methods** 1997 Aug;67(1):23–34

Prevalence of antibodies to bluetongue, bovine herpesvirus 1 and bovine viral diarrhea/mucosal disease viruses in water buffaloes in Minas Gerais State, Brazil. Lage AP, et al. **Rev Elev Med Vet Pays Trop** 1996;49(3):195–7

Epidemiologic association between antibody titres against bovine virus diarrhoea virus, rinderpest disease virus and infectious bovine rhinotracheitis virus in a buffalo herd. Akhtar S, et al. **Trop Anim Health Prod** 1996 Aug; 28(3):207–12

A quantitative study of the efficacy of a deletion mutant bovine herpesvirus–1 differential vaccine in reducing the establishment of latency by wildtype virus. Galeota JA, et al. **Vaccine** 1997 Feb;15(2):123–8

Polynucleotide vaccines in animals: enhancing and modulating responses. Lewis PJ, et al. **Vaccine** 1997 Jun; 15(8):861–4

Study of immunogenicity and virulence of bovine herpesvirus 1 mutants deficient in the UL49 homolog, UL49.5 homolog and dUTPase genes in cattle. Liang X, et al. **Vaccine** 1997 Jul;15(10):1057–64

Protective immunity in cattle following vaccination with conventional and marker bovine herpesvirus–1 (BHV1) vaccines. van Drunen Littel–van den Hurk S, et al. **Vaccine** 1997 Jan;15(1):36–44

Mucosal and systemic immunity to bovine herpesvirus–1 glycoprotein D confer resistance to viral replication and latency in cattle. Zhu X, et al. **Vaccine** 1996 Jan;14(1):61–9

Yeast–secreted bovine herpesvirus type 1 glycoprotein D has authentic conformational structure and immunogenicity. Zhu X, et al. **Vaccine** 1997 Apr–May;15(6–7):679–88

An attenuated bovine herpesvirus 1 marker vaccine induces a better protection than two inactivated marker vaccines. Bosch JC, et al. **Vet Microbiol** 1996 Oct;52(3–4):223–34

Antibody isotype responses to experimental infection with bovine herpesvirus 1 in calves with colostrally derived antibody. Bradshaw BJ, et al. **Vet Microbiol** 1996 Nov; 53(1–2):143–51

The role of glycoproteins gC, gE, gI, and gG in the induction of cell–mediated immune responses to bovine herpesvirus 1. Denis M, et al. **Vet Microbiol** 1996 Nov;53(1–2):121–32

Persistence of antibodies against bovine herpesvirus 1 and virus reactivation two to three years after infection. Kaashoek MJ, et al. **Vet Microbiol** 1996 Nov; 53(1–2):103–10

Early immunity induced by a live gE–negative bovine herpesvirus 1 marker vaccine. Kaashoek MJ, et al. **Vet Microbiol** 1996 Nov;53(1–2):191–7

Effect of bovine herpesvirus–1 on expression of interleukin–2 receptors and effect of interleukin–12 on lymphocyte proliferation. Lan HC, et al. **Vet Microbiol** 1996 Mar; 49(1–2):59–66

Development of a disease control programme based on the use of an inactivated vaccine against infectious bovine rhinotracheitis. Pospíšil Z, et al. **Vet Microbiol** 1996 Nov; 53(1–2):199–206

A gE deleted infectious bovine rhinotracheitis marker vaccine for use in improved bovine herpesvirus 1 control programs. Strube W, et al. **Vet Microbiol** 1996 Nov; 53(1–2):181–9

Advances in the development and evaluation of bovine herpesvirus 1 vaccines. van Oirschot JT, et al. **Vet Microbiol** 1996 Nov;53(1–2):43–54 (60 ref.)

Probability of detecting antibodies to bovine herpesvirus 1 in bulk milk after the introduction of a positive animal on to a negative farm. Frankena K, et al. **Vet Rec** 1997 Jan 25;140(4):90–2

Evaluation of a commercial gE blocking ELISA test for detection of antibodies to infectious bovine rhinotracheitis virus. Perrin B, et al. **Vet Rec** 1996 May 25;138(21):520

Bovine herpesvirus 1 downregulates the expression of bovine

HERPESVIRUS 1, BOVINE

MHC class I molecules. Nataraj C, et al. **Viral Immunol** 1997;10(1):21–34

Induction of systemic and mucosal immune responses in cotton rats immunized with human adenovirus type 5 recombinants expressing the full and truncated forms of bovine herpesvirus type 1 glycoprotein gD. Mittal SK, et al. **Virology** 1996 Aug 15;222(2):299–309

Prediction of potential cytotoxic T lymphocyte epitopes of bovine herpesvirus 1 based on allele-specific peptide motifs and proteolytic cleavage specificities. Hegde NR, et al. **Virus Genes** 1996;13(2):121–33

The efficacy of an inactivated IBR vaccine in the prevention of intra-uterine infection and its use in a disease-control programme. Pospíšil Z, et al. **Zentralbl Veterinarmed [B]** 1996 Mar;43(1):15–21

[Detection of herpesvirus serum antibodies in red deer (Cervus elaphus) imported into the Czech Republic] Pospíšil Z, et al. **Vet Med (Praha)** 1996 Sep;41(9):279–82 (Eng. Abstr.) **(Cze)**

ISOLATION & PURIFICATION

Cloning and characterization of HindIII fragments of bovine herpesvirus-1 DNA from an Indian isolate. Kataria RS, et al. **Indian J Biochem Biophys** 1996 Aug;33(4):315–8

Direct detection of bovine herpes virus-1 DNA from cell culture fluids using polymerase chain reaction. Sreenivasa BP, et al. **Indian J Exp Biol** 1996 Nov;34(11):1169–71

The use of a polymerase chain reaction assay for the detection of bovine herpesvirus 1 in semen during a natural outbreak of infectious bovine rhinotracheitis. de Gee AL, et al. **Vet Microbiol** 1996 Nov;53(1–2):163–8

Rapid and high sensitivity test for direct detection of bovine herpesvirus-1 genome in clinical samples. Santurde G, et al. **Vet Microbiol** 1996 Mar;49(1–2):81–92

Within-herd BHV-1 prevalence prediction from an ELISA on bulk milk. Hartman A, et al. **Vet Rec** 1997 May 3; 140(18):484–5

A polymerase chain reaction (PCR) assay for the detection of bovine herpesvirus 1 (BHV1) in selectively digested whole bovine semen. Wagter LH, et al. **Vet Res Commun** 1996;20(4):401–8

A contribution to the systematization of bovine herpesvirus 1 based on genomic mapping by restriction fragment pattern analysis. Christensen LS, et al. **Virus Res** 1996 Dec; 46(1–2):177–82

Serological and virological studies on the infectious bovine rhinotracheitis in Algeria. Achour HA, et al. **Zentralbl Veterinarmed [B]** 1996 Jun;43(4):251–6

METABOLISM

Production and characterization of bovine herpesvirus 1 glycoprotein B ectodomain derivatives in an hsp70A gene promoter-based expression system. Li Y, et al. **Arch Virol** 1996;141(10):2019–29

From essential to beneficial: glycoprotein D loses importance for replication of bovine herpesvirus 1 in cell culture. Schröder C, et al. **J Virol** 1997 Jan;71(1):25–33

Synthesis, processing, and oligomerization of bovine herpesvirus 1 gE and gI membrane proteins. Whitbeck JC, et al. **J Virol** 1996 Nov;70(11):7878–84

Structural and functional analysis of bovine herpesvirus 1 minor glycoproteins. Baranowski E, et al. **Vet Microbiol** 1996 Nov;53(1–2):91–101 (73 ref.)

The cytoplasmic domain of bovine herpesvirus 1 glycoprotein B is important for maintaining conformation and the high-affinity binding site of gB. Li Y, et al. **Virology** 1996 Aug 1;222(1):262–8

Functional analysis of the transmembrane anchor region of bovine herpesvirus 1 glycoprotein gB. Li Y, et al. **Virology** 1997 Feb 3;228(1):39–54

PATHOGENICITY

Interference activity of bovine herpes virus 1 strains against Aujeszky's disease virus in cell cultures. Peshev R, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):171–5

Pseudorabies virus recombinants expressing functional virulence determinants gE and gI from bovine herpesvirus 1.1. Knapp AC, et al. **J Virol** 1997 Apr;71(4):2731–9

Study of immunogenicity and virulence of bovine herpesvirus 1 mutants deficient in the UL49 homolog, UL49.5 homolog and dUTPase genes in cattle. Liang X, et al. **Vaccine** 1997 Jul;15(10):1057–64

Construction and characterization of an attenuated bovine herpesvirus type 1 (BHV-1) recombinant virus. Chowdhury SI. **Vet Microbiol** 1996 Sep;52(1–2):13–23

Virulence, immunogenicity and reactivation of seven bovine herpesvirus 1.1 strains: clinical and virological aspects. Kaashoek MJ, et al. **Vet Rec** 1996 Oct 26;139(17):416–21

PHYSIOLOGY

Effects of copper deficiency and copper deficiency coupled with high dietary iron or molybdenum on phagocytic cell function and response of calves to a respiratory disease challenge. Gengelbach GP, et al. **J Anim Sci** 1997 Apr; 75(4):1112–8

Mucosal and systemic immunity to bovine herpesvirus-1 glycoprotein D confer resistance to viral replication and latency in cattle. Zhu X, et al. **Vaccine** 1996 Jan;14(1):61–9

Effects of BHV-1 on PMN adhesion to bovine lung endothelial cells. Warren LM, et al. **Vet Immunol Immunopathol** 1996 Dec;55(1–3):73–82

Bovine herpesvirus 1-induced apoptosis occurs at the G0/G1 phase of the cell cycle. Hanon E, et al. **Virology** 1997 Jun 9;232(2):351–8

HERPESVIRUS 2, BOVINE

ENZYMOLOGY

Loss of thymidine kinase activity due to a base deletion in a candidate vaccine strain of bovine herpesvirus 2. Gaut R, et al. **Acta Virol** 1997 Apr;41(2):93–5

ISOLATION & PURIFICATION

Isolation of a thymidine kinase-deficient bovine herpesvirus 2 that still causes disease. Handley A, et al. **Aust Vet J** 1996 Aug;74(2):158–9

PHYSIOLOGY

Glycoprotein E of bovine herpesvirus type 1 is involved in virus transmission by direct cell-to-cell spread. Rebordosa X, et al. **Virus Res** 1996 Nov;45(1):59–68

HERPESVIRUS 1, CANID

CHEMISTRY

Analysis of canine herpesvirus gB, gC and gD expressed by a recombinant vaccinia virus. Xuan X, et al. **Arch Virol** 1997;142(5):1003–10

ENZYMOLOGY

Identification and nucleotide sequence of the thymidine kinase gene of canine herpesvirus. Xuan X, et al. **Virus Genes** 1996;12(2):185–8

Sequence of the canine herpesvirus thymidine kinase gene: taxon-preferred amino acid residues in the alphaherpesviral thymidine kinases. Rémond M, et al. **Virus Res** 1995 Dec; 39(2–3):341–54

GENETICS

Characterization of canine herpesvirus glycoprotein C expressed by a recombinant baculovirus in insect cells. Xuan X, et al. **Virus Res** 1996 Dec;46(1–2):57–64

ISOLATION & PURIFICATION

Detection of canine herpesvirus 1 in a wide range of tissues using the polymerase chain reaction. Burr PD, et al. **Vet Microbiol** 1996 Dec;53(3–4):227–37

HERPESVIRUS 1, CERCOPITHECINE

GENETICS

Analysis of the genome of an Epstein-Barr-virus (EBV)-related herpesvirus in a cynomolgus monkey cell line (Si-IIA). Ino H, et al. **Acta Med Okayama** 1997 Aug; 51(4):207–12

Genetic and functional complementation of the HSV1 UL27 gene and gB glycoprotein by simian alpha-herpesvirus homologs. Eberle R, et al. **Arch Virol** 1997;142(4):721–36

Viral isolates derived from simian varicella epizootics are genetically related but are distinct from other primate herpesviruses. Gray WL, et al. **Virology** 1996 Oct 1; 224(1):161–6

The inverted repeat regions of the simian varicella virus and varicella-zoster virus genomes have a similar genetic organization. Gray WL, et al. **Virus Res** 1995 Dec; 39(2–3):181–93

IMMUNOLOGY

Characterization of virus-specific and cross-reactive monoclonal antibodies to Herpesvirus simiae (B virus). Blewett EL, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2787–93

ISOLATION & PURIFICATION

A simian varicella virus (SVV) homolog to varicella-zoster virus gene 21 is expressed in monkey ganglia latently infected with SVV. Clarke P, et al. **J Virol** 1996 Aug; 70(8):5711–5

Prevalence of Herpesvirus papio 2 in baboons and identification of immunogenic viral polypeptides. Eberle R, et al. **Lab Anim Sci** 1997 Jun;47(3):256–62

METABOLISM

Intracellular compartmentalization of the glycoprotein B of herpesvirus Simian agent 8 expressed with a baculovirus vector in insect cells. Veit M, et al. **Arch Virol** 1996; 141(10):2009–17

PHYSIOLOGY

Comparison of the EBNA1 proteins of Epstein-Barr virus and herpesvirus papio in sequence and function. Yates JL, et al. **Virology** 1996 Aug 1;222(1):1–13

HERPESVIRUS 1, EQUID

Use of transabdominal ultrasound-guided amniocentesis for detection of equid herpesvirus 1-induced fetal infection in utero. Smith KC, et al. **Am J Vet Res** 1997 Sep; 58(9):997–1002

Cardio-histopathological observations on aborted equine fetuses infected with equid herpesvirus 1 (EHV-1). Machida N, et al. **J Comp Pathol** 1997 May;116(4):379–85

A comparison of equid herpesvirus-1 (EHV-1) vascular lesions in the early versus late pregnant equine uterus. Smith KC, et al. **J Comp Pathol** 1996 Apr;114(3):231–47

Equine herpesvirus 1 myeloencephalopathy. Wilson WD. **Vet Clin North Am Equine Pract** 1997 Apr;13(1):53–72 (82 ref.)

CLASSIFICATION

Restriction endonuclease analysis of equine herpesvirus-1 isolates recovered in Ontario, 1986–1992, from aborted, stillborn, and neonatal foals. Nagy E, et al. **J Vet Diagn Invest** 1997 Apr;9(2):143–8

GENETICS

Diagnosis of equine herpesvirus 1 abortion using polymerase chain reaction. Mackie JT, et al. **Aust Vet J** 1996 Nov; 74(5):390–1

Detection of latency-associated transcripts of equid herpesvirus 1 in equine leukocytes but not in trigeminal ganglia. Chesters PM, et al. **J Virol** 1997 May;71(5):3437–43

The ICP22 protein of equine herpesvirus 1 cooperates with the IE protein to regulate viral gene expression. Kim SK, et al. **J Virol** 1997 Feb;71(2):1004–12

The highly O-glycosylated glycoprotein gp2 of equine herpesvirus 1 is encoded by gene 71. Wellington JE, et al. **J Virol** 1996 Nov;70(11):8195–8

Lack of virulence of the murine fibroblast adapted strain, Kentucky A (KyA), of equine herpesvirus type 1 (EHV-1) in young horses. Matsumura T, et al. **Vet Microbiol** 1996 Feb;48(3–4):353–65

An equine herpesvirus-1 gene 71 deletant is attenuated and elicits a protective immune response in mice. Marshall KR, et al. **Virology** 1997 Apr 28;231(1):20–7

Concatemeric intermediates of equine herpesvirus type 1 DNA replication contain frequent inversions of adjacent long segments of the viral genome. Slobedman B, et al. **Virology** 1997 Mar 17;229(2):415–20

The expression of the proteins of equine herpesvirus 1 which share homology with herpes simplex virus 1 glycoproteins H and L. Stokes A, et al. **Virus Res** 1996 Jan;40(1):91–107

Alterations in the equine herpesvirus type-1 (EHV-1) strain RacH during attenuation. Hübert PH, et al. **Zentralbl Veterinarmed [B]** 1996 Mar;43(1):1–14

Direct detection of equine herpesvirus DNA in tissues of aborted equine fetuses. Ishiyama T, et al. **Zentralbl Veterinarmed [B]** 1996 Dec;43(10):639–42

GROWTH & DEVELOPMENT

The equine herpesvirus 1 IR6 protein influences virus growth at elevated temperature and is a major determinant of virulence. Osterrieder N, et al. **Virology** 1996 Dec 15; 226(2):243–51

IMMUNOLOGY

Equine dendritic cell infection with equid herpesvirus type 1 reduces their ability to support mitogenic T cell proliferation. Siedek EM, et al. **Biochem Soc Trans** 1997 May;25(2):283S

Transforming growth factor-beta induced by live or ultraviolet-inactivated equid herpes virus type-1 mediates immunosuppression in the horse. Charan S, et al. **Immunology** 1997 Apr;90(4):586–91

In vitro cytotoxic activity of equine lymphocytes on equine herpesvirus-1 infected allogenic fibroblasts. Edens LM, et al. **Vet Immunol Immunopathol** 1996 Jul;52(3):175–89

Cell-mediated cytolysis of equine herpesvirus-infected cells by leukocytes from young vaccinated horses. Ellis JA, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):201–14

Residence and recruitment of leucocytes to the equine lung after EHV-1 infection. Kydd JH, et al. **Vet Immunol Immunopathol** 1996 Jun 15;52(1–2):15–26

Immunohistochemical demonstration of equine herpesvirus-1 antigen in neurons and astrocytes of horses with acute paralysis. Schultheiss PC, et al. **Vet Pathol** 1997 Jan; 34(1):52–4

Equine herpesvirus-1 strain KyA, a candidate vaccine strain, reduces viral titers in mice challenged with a pathogenic strain, RacL. Colle CF 3rd, et al. **Virus Res** 1996 Aug; 43(2):111–24

High level expression of equine herpesvirus 1 glycoproteins D and H and their role in protection against virus challenge in the C3H (H-2Kk) murine model. Stokes A, et al. **Virus Res** 1997 Aug;50(2):159–73

The production of a truncated form of baculovirus expressed EHV-1 glycoprotein C and its role in protection of C3H (H-2Kk) mice against virus challenge. Stokes A, et al. **Virus Res** 1996 Oct;44(2):97–109

ISOLATION & PURIFICATION

Application of polymerase chain reaction (PCR) for diagnosis of equine herpes virus-1 (EHV-1). Gupta AK, et al. **Indian J Exp Biol** 1996 Nov;34(11):1077–80

Molecular studies of the acute infection, latency and reactivation of equine herpesvirus-1 (EHV-1) in the mouse model. Baxi MK, et al. **Virus Res** 1996 Jan;40(1):33–45

METABOLISM

Expression and function of the equine herpesvirus 1 virion-associated host shutoff homolog. Feng X, et al. **J Virol** 1996 Dec;70(12):8710-8

Structural and antigenic identification of the ORF12 protein (alpha TIF) of equine herpesvirus 1. Lewis JB, et al. **Virology** 1997 Apr 14;230(2):369-75

Synthesis and processing of the equine herpesvirus 1 glycoprotein M. Osterrieder N, et al. **Virology** 1997 May 26;232(1):230-9

PATHOGENICITY

The pathogenesis of ED71, a defined deletion mutant of equine herpesvirus-1, in a murine intranasal infection model for equine abortion. Fitzmaurice T, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2167-9

Lack of virulence of the murine fibroblast adapted strain, Kentucky A (KyA), of equine herpesvirus type 1 (EHV-1) in young horses. Matsumura T, et al. **Vet Microbiol** 1996 Feb;48(3-4):353-65

PHYSIOLOGY

Expression and characterization of equine herpesvirus 1 glycoprotein D in mammalian cell lines. Wellington JE, et al. **Arch Virol** 1996;141(9):1785-93

Replication of equid herpesvirus-1 (EHV-1) in the testes and epididymides of ponies and venereal shedding of infectious virus. Tearle JP, et al. **J Comp Pathol** 1996 Nov; 115(4):385-97

Demonstration of equine herpesvirus-1 neuronal latency in murine olfactory bulbs using a novel combined in situ PCR and protein synthesis method. Marshall KR, et al. **Virology** 1997 Mar 3;229(1):279-82

Analysis of the contributions of the equine herpesvirus 1 glycoprotein gB homolog to virus entry and direct cell-to-cell spread. Neubauer A, et al. **Virology** 1997 Jan 20;227(2):281-94

HERPESVIRUS 4, EQUID see **VARICELLOVIRUS**

HERPESVIRUS 1, GALLID

Comparison of diagnostic tests for infectious laryngotracheitis. Abbas F, et al. **Avian Dis** 1996 Apr-Jun; 40(2):290-5

Evaluation of ELISA titers to infectious laryngotracheitis. Sander JE, et al. **Avian Dis** 1997 Apr-Jun;41(2):429-32

CLASSIFICATION

Differentiation of infectious laryngotracheitis virus strains by polymerase chain reaction. Clavijo A, et al. **Avian Dis** 1997 Jan-Mar;41(1):241-6

GENETICS

DNA sequence and transcriptional analysis of the UL1 to UL5 gene cluster of infectious laryngotracheitis virus. Fuchs W, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2221-9

A genomic map of infectious laryngotracheitis virus and the sequence and organization of genes present in the unique short and flanking regions. Wild MA, et al. **Virus Genes** 1996;12(2):107-16

PATHOGENICITY

Increased virulence of Marek's disease virus field isolates. Witter RL. **Avian Dis** 1997 Jan-Mar;41(1):149-63

Comparison of the effects of infectious bronchitis and infectious laryngotracheitis on the chicken respiratory tract. Nakamura K, et al. **J Comp Pathol** 1996 Jan; 114(1):11-21

HERPESVIRUS 2, GALLID

CHEMISTRY

Characterization and expression of the Marek's disease virus serotype 2 glycoprotein E in recombinant baculovirus-infected cells: initial analysis of its DNA sequence and antigenic properties. Jang HK, et al. **Virus Res** 1997 May;48(2):111-23

CLASSIFICATION

Detection of Marek's disease virus serotype 1 (MDV1) glycoprotein D in MDV1-infected chick embryo fibroblasts. Ono M, et al. **J Vet Med Sci** 1996 Aug; 58(8):777-80

GENETICS

Identification of a potential Marek's disease virus serotype 2 glycoprotein D gene with homology to herpes simplex virus glycoprotein D. Jang HK, et al. **Arch Virol** 1996; 141(11):2207-16

Genetic susceptibility to Marek's disease virus of local chickens in Taiwan. Lin JA, et al. **Avian Dis** 1996 Jul-Sep; 40(3):576-81

Protection and synergism by recombinant fowl pox vaccines expressing genes from Marek's disease virus. Nazerian K, et al. **Avian Dis** 1996 Apr-Jun;40(2):368-76

Marek's disease virus EcoRI-Q gene (meq) and a small RNA antisense to ICP4 are abundantly expressed in CD4+ cells and cells carrying a novel lymphoid marker, AV37, in Marek's disease lymphomas. Ross N, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2191-8

Detection of transcripts of Marek's disease virus serotype 1 iCP4 homologue (MDV1 ICP4) by in situ hybridization. Endoh D, et al. **J Vet Med Sci** 1996 Oct;58(10):969-75

Marek's disease virus serotype 2 glycoprotein I gene: nucleotide sequence and expression by a recombinant baculovirus. Jang HK, et al. **J Vet Med Sci** 1996 Nov; 58(11):1057-66

Marek's disease virus latency-associated transcripts belong to a family of spliced RNAs that are antisense to the ICP4 homolog gene. Cantello JL, et al. **J Virol** 1997 Feb; 71(2):1353-61

Retroviral insertional activation of the c-myb proto-oncogene in a Marek's disease T-lymphoma cell line. Le Rouzic E, et al. **J Virol** 1996 Nov;70(11):7414-23

Expression of the endogenous Marek's disease virus ICP4 homolog (MDV ICP4) gene is enhanced in latently infected cells by transient transfection with the recombinant MDV ICP4 gene. Endoh D, et al. **Jpn J Vet Res** 1995 Dec; 43(3-4):109-24

Enhancement of gene expression by Marek's disease virus homologue of the herpes simplex virus-1 ICP4. Endoh D. **Jpn J Vet Res** 1996 Aug;44(2):136-7

Insertion of tandem direct repeats consisting of avian leukosis virus LTR sequences into the inverted repeat region of Marek's disease virus type 1 DNA. Sakaguchi M, et al. **Virus Genes** 1997;14(2):157-62

Identification and DNA sequence analysis of the Marek's disease virus serotype 2 genes homologous to the thymidine kinase and UL24 genes of herpes simplex virus type 1. Shimojima Y, et al. **Virus Genes** 1997;14(1):81-7

Recombinant fowlpox virus vaccines against Australian virulent Marek's disease virus: gene sequence analysis and comparison of vaccine efficacy in specific pathogen free and production chickens. Heine HG, et al. **Virus Res** 1997 Jul;50(1):23-33

Characterization and expression of the Marek's disease virus serotype 2 glycoprotein E in recombinant baculovirus-infected cells: initial analysis of its DNA sequence and antigenic properties. Jang HK, et al. **Virus Res** 1997 May;48(2):111-23

[Cloning and sequencing of genes coding the glycoproteins of antigens A and B of oncogenic strain JM of Marek disease virus (MDV)] Bedristov AI, et al. **Mol Gen Mikrobiol Virusol** 1996 Jul-Sep;(3):6-11 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Marek's disease vaccination of chickens. Outteridge P. **Aust Vet J** 1996 Dec;74(6):464

Influence of Marek's disease virus strain AC-1 on cellular immunity in birds carrying endogenous viral genes. Lessard M, et al. **Avian Dis** 1996 Jul-Sep;40(3):645-53

Protection and synergism by recombinant fowl pox vaccines expressing genes from Marek's disease virus. Nazerian K, et al. **Avian Dis** 1996 Apr-Jun;40(2):368-76

Applications in in ovo technology. Johnston PA, et al. **Poult Sci** 1997 Jan;76(1):165-78

Antigen-specific lymphoproliferative responses to tetanus toxoid: a means for the evaluation of Marek's disease virus-induced immunosuppression in chickens. Reddy SK, et al. **Vaccine** 1996 Dec;14(17-18):1695-702

Protective efficacy of a recombinant herpesvirus of turkeys as an in ovo vaccine against Newcastle and Marek's diseases in specific-pathogen-free chickens. Reddy SK, et al. **Vaccine** 1996 Apr;14(6):469-77

Syngeneic Marek's disease virus (MDV)-specific cell-mediated immune responses against immediate early, late, and unique MDV proteins. Omar AR, et al. **Virology** 1996 Aug 1;222(1):87-99

Recombinant fowlpox virus vaccines against Australian virulent Marek's disease virus: gene sequence analysis and comparison of vaccine efficacy in specific pathogen free and production chickens. Heine HG, et al. **Virus Res** 1997 Jul;50(1):23-33

ISOLATION & PURIFICATION

First isolation and characterization of very virulent Marek's disease virus in Taiwan. Lin JA, et al. **J Vet Med Sci** 1996 Oct;58(10):1011-5

Intimal lipid accretion and elevated serum cholesterol in Marek's disease virus-inoculated chickens. Njenga MK, et al. **Vet Pathol** 1996 Nov;33(6):704-8

METABOLISM

Nucleolar and nuclear localization properties of a herpesvirus bZIP oncoprotein, MEQ. Liu JL, et al. **J Virol** 1997 Apr; 71(4):3188-96

Quantification of Marek's disease virus in chicken lymphocytes using the polymerase chain reaction with fluorescence detection. Bumstead N, et al. **J Virol Methods** 1997 Apr;65(1):75-81

Characterization of the protein product encoded by a splicing variant of the Marek's disease virus Eco-Q gene (Meq). Peng Q, et al. **Virology** 1996 Dec 1;226(1):77-82

Cloning and sequence analysis of a Marek's disease virus origin binding protein (OBP) reveals strict conservation of structural motifs among OBPs of divergent alphaherpesviruses. Wu TF, et al. **Virus Genes** 1996; 13(2):143-57

PHYSIOLOGY

Evidence that Marek's disease virus exists in a latent state in a sustainable fibroblast cell line. Abujoub AA, et al. **Virology** 1997 Mar 17;229(2):309-21

HERPESVIRUS 2 (GAMMA), GALLID see **HERPESVIRUS 2, GALLID**

HERPESVIRUS 4 (GAMMA), HUMAN see **HERPESVIRUS 4, HUMAN**

HERPESVIRUS 2 (GAMMA), SAIMIRINE see **HERPESVIRUS 2, SAIMIRINE**

HERPESVIRUS HOMINIS see **SIMPLEXVIRUS**

HERPESVIRUS 1, HUMAN

Herpetic croup: two case reports and a review of the literature. Mancao MY, et al. **Acta Paediatr** 1996 Jan; 85(1):118-20 (9 ref.)

The neurotoxin quinolinic acid is increased in spinal cords of mice with herpes simplex virus encephalitis. Reinhard JF Jr, et al. **Adv Exp Med Biol** 1996;398:241-6

Effect of 9-(4-hydroxybutyl)-N2-phenylguanine (HBPG), a thymidine kinase inhibitor, on clinical recurrences of ocular herpetic keratitis in squirrel monkeys. Kaufman HE, et al. **Antiviral Res** 1996 Dec;33(1):65-72

Presence of herpes simplex DNA in surgical tissue from human epileptic seizure foci detected by polymerase chain reaction: preliminary study. Sanders VJ, et al. **Arch Neurol** 1997 Aug;54(8):954-60

Transgenic mice expressing the thymus leukemia antigen fail to control cutaneous herpes simplex virus infection. Sharma P, et al. **Cell Immunol** 1996 Nov 25;174(1):84-9

Inoculation herpes simplex virus infections in patients with AIDS: unusual appearance and location of lesions. Weaver G, et al. **Clin Infect Dis** 1996 Jan;22(1):141-2

Differential effects of HSV-1 and HCMV infection on adhesion molecule expression on human corneal keratocytes. Stuart PM, et al. **Curr Eye Res** 1997 May; 16(5):496-502

Reactivation of oral-lingual herpes by chlorinated swimming pool water. A case report [letter; comment] Detweiler MB, et al. **Cutis** 1997 May;59(5):260. Comment on: Cutis 1995 Jul;56(1):49-50.

HSV infection of polarized epithelial cells on filter supports: implications for transport assays and protein localization. Murphy C, et al. **Eur J Cell Biol** 1997 Mar;72(3):278-81

Herpes simplex virus type 1 alters transcript levels of tumor necrosis factor-alpha and interleukin-6 in retinal glial cells. Drescher KM, et al. **Invest Ophthalmol Vis Sci** 1996 Oct; 37(11):2302-12

Fatal brain stem encephalitis due to herpes simplex virus type 1 in AIDS [letter] Moulignier A, et al. **J Neurol** 1996 Jun; 243(6):491-3

Analysis of the 2-kilobase latency-associated transcript expressed in PC12 cells productively infected with herpes simplex virus type 1: evidence for a stable, nonlinear structure. Rødahl E, et al. **J Virol** 1997 Feb;71(2):1703-7

Herpes simplex virus and risk of Alzheimer's disease [letter; comment] Itabashi S, et al. **Lancet** 1997 Apr 12; 349(9058):1102. Comment on: Lancet 1997 Jan 25;349(9047):241-4.

Herpes simplex virus and risk of Alzheimer's disease [letter; comment] Latchman DS. **Lancet** 1997 Apr 12; 349(9058):1101; discussion 1101-2. Comment on: Lancet 1997 Jan 25;349(9047):241-4.

Herpes simplex virus type 1 encephalitis in acquired immunodeficiency syndrome. Chrétien F, et al. **Neuropathol Appl Neurobiol** 1996 Oct;22(5):394-404 (32 ref.)

Herpes simplex virus infections. Annunziato PW, et al. **Pediatr Rev** 1996 Dec;17(12):415-23; quiz 424 (11 ref.)

Naturally occurring herpes simplex encephalitis in a domestic rabbit (Oryctolagus cuniculus). Weissenböck H, et al. **Vet Pathol** 1997 Jan;34(1):44-7

Evidence for induction of interferon-alpha and interferon-beta in retinal glial cells of Müller. Drescher KM, et al. **Virology** 1997 Aug 4;234(2):309-16

Genital herpes simplex virus infection in females in Ibadan Nigeria. Oni AA, et al. **West Afr J Med** 1996 Apr-Jun; 15(2):107-10

CHEMISTRY

Comparative analysis of HSV-1 temperature mutants proteins and their reactivity. Litwińska B, et al. **Acta Microbiol Pol** 1996;45(2):155-60

Single amino acid substitutions in the glycoprotein B carboxy terminus influence the fusion from without property of herpes simplex virus type 1. Lingen M, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1843-9

Two-dimensional gel analysis of [35S]methionine labelled and phosphorylated proteins present in virions and light particles of herpes simplex virus type 1, and detection of potentially new structural proteins. Sathananthan B, et al. **Virus Res** 1996 Dec;46(1-2):1-18

HERPESVIRUS 1, HUMAN

CLASSIFICATION

Clear detection and typing of herpes simplex virus types 1 and 2 by an indirect ELISA assay: comparison with three different combined methods--capture ELISA, restriction enzymes, and polymerase chain reaction. Markoulatos P, et al. **J Clin Lab Anal** 1997;11(3):146–53

Comparison of the association with eczema herpeticum in the two predominant genotypes of herpes simplex virus type 1. Umene K, et al. **J Med Virol** 1996 Aug;49(4):329–32

DRUG EFFECTS

Influence of glycoproteins B, C and D on the conversion of virus-to-cell attachment from heparin sensitivity to resistance. Seck T, et al. **Acta Virol** 1996 Sep;40(4):179–85

Evaluation of a peptidomimetic ribonucleotide reductase inhibitor with a murine model of herpes simplex virus type 1 ocular disease. Brandt CR, et al.
Antimicrob Agents Chemother 1996 May;40(5):1078–84

Cellular uptake and biological effects of antisense oligodeoxynucleotide analogs targeted to herpes simplex virus. Shoji Y, et al. **Antimicrob Agents Chemother** 1996 Jul;40(7):1670–5

Cutaneously applied acyclovir acts systemically in the treatment of herpetic infection in the hairless mouse. Bolger GT, et al. **Antiviral Res** 1997 Aug;35(3):157–65

Antiviral effects of 6-diazo-5-oxo-L-norleucin on replication of herpes simplex virus type 1. Cinatl J, et al. **Antiviral Res** 1997 Feb;33(3):165–75

Lipid prodrugs of phosphonoacids: greatly enhanced antiviral activity of
1-O-octadecyl-sn-glycero-3-phosphonoformate in
HIV-1, HSV-1 and HCMV-infected cells, in vitro. Hostetler KY, et al. **Antiviral Res** 1996 Jun;31(1–2):59–67

Inhibition of herpes simplex virus replication by retinoic acid. Isaacs CE, et al. **Antiviral Res** 1997 Jan;33(2):117–27

Lactoferrin inhibits herpes simplex virus type 1 adsorption to Vero cells. Marchetti M, et al. **Antiviral Res** 1996 Mar; 29(2–3):221–31

Correlation of in vivo topical efficacies with in vitro predictions using acyclovir formulations in the treatment of cutaneous HSV-1 infections in hairless mice: an evaluation of the predictive value of the C* concept. Patel PJ, et al. **Antiviral Res** 1996 Mar;29(2–3):279–86

Red blood cells mediated delivery of
9-(2-phosphonylmethoxyethyl)adenine to primary
macrophages: efficiency metabolism and activity against human immunodeficiency virus or herpes simplex virus. Perno CF, et al. **Antiviral Res** 1997 Feb;33(3):153–64

Nuclease stability as dominant factor in the antiviral activity of oligonucleotides directed against HSV-1 IE110. Peyman A, et al. **Antiviral Res** 1997 Jan;33(2):135–9

Differential effect of recombinant human and mouse interferons on replication of herpes simplex virus type 1 in mouse cells. Wintergerst U, et al. **Antiviral Res** 1996 Aug;32(1):27–34

Antiviral activity of 2-chloro-2'-deoxyadenosine (2-CdA). Zahorska R, et al. **Arch Immunol Ther Exp (Warsz)** 1996; 44(2–3):137–41

Lack of stereospecificity of some cellular and viral enzymes involved in the synthesis of deoxyribonucleotides and DNA: molecular basis for the antiviral activity of unnatural L-beta-nucleosides. Spadari S, et al. **Biochimie** 1995; 77(11):861–67

In vitro and in vivo effects of polyhexamethylene biguanide against herpes simplex virus infection. Valluri S, et al.
Cornea 1997 Sep;16(5):556–9

Halogenated isoniazid derivatives VI. Evaluation of anti-HSV-1 and anti-HIV-1 in vitro activities of fluorinated analogues. Arena A, et al. **Farmaco** 1996 Jul; 51(7):517–23

Growth inhibition of herpes simplex virus-type 1 in calphostin C-treated astrocytes. Castagnino CG, et al.
Intervirology 1995;38(6):332–8

Antiviral activity of 5,6,7-trimethoxyflavone and its potentiation of the antiherpes activity of acyclovir. Hayashi K, et al. **J Antimicrob Chemother** 1997 Jun;39(6):821–4

Efficacy of Cafon gel on cutaneous infection with herpes simplex virus (HSV)-2 and acyclovir-resistant HSV in mice. Yoshida Y, et al. **J Dermatol Sci** 1996 Dec; 13(3):237–41

Antiviral activity of galangin isolated from the aerial parts of Helichrysum aureonitens. Meyer JJ, et al.
J Ethnopharmacol 1997 Apr;56(2):165–9

Inhibition of herpes simplex virus type 1 by aqueous extracts from shoots of Helichrysum aureonitens (Asteraceae). Meyer JJ, et al. **J Ethnopharmacol** 1996 May;52(1):41–3

Mechanism of enhancement of the antiviral action of interferon against herpes simplex virus-1 by chloroquine. Singh AK, et al. **J Interferon Cytokine Res** 1996 Sep; 16(9):725–31

Inhibition of herpes simplex virus reactivation by dipyridamole in a mouse model. Hay KA, et al.
J Med Virol 1996 Oct;50(2):198–203

Evaluation of antiherpetic compounds using a gastric cancer cell line: pronounced activity of BVDU against herpes simplex virus replication. Kodama E, et al.
Microbiol Immunol 1996;40(5):359–63

Antiviral effect of a polysaccharide from Sclerotium glucanicum towards herpes simplex virus type 1 infection. Marchetti M, et al. **Pianta Med** 1996 Aug;62(4):303–7

Study of the antiviral activity of some new classes of AS-triazine derivatives (preliminary note). Tomas E, et al. **Rom J Virol** 1995 Jan–Jun;46(1–2):51–6

Protection and therapy of experimental herpesvirus infections in mice with immunomodulating Propionibacterium avidum KP-40 and/or acyclovir. Kobus M, et al.
Zentralbl Bakteriol 1997 Feb;285(3):445–9

ENZYMOLOGY

Relationship between structural properties and affinity for herpes simplex virus type 1 thymidine kinase of bromine substituted 5-heteroaromatic 2'-deoxyuridines. Creuven I, et al. **Antiviral Res** 1996 May;30(2–3):63–74

Metabolism and activities of 3'-azido-2',3'-dideoxythymidine and 2',3'-didehydro-2',3'-dideoxythymidine in herpesvirus thymidine kinase transduced T-lymphocytes. Drake RR, et al. **Antiviral Res** 1997 Aug;35(3):177–85

The herpes simplex virus type 1 ribonucleotide reductase is required for acute retinal disease. Brandt CR, et al.
Arch Virol 1997;142(5):883–96

EPR study of the mixed-valent diiron sites in mouse and herpes simplex virus ribonucleotide reductases. Effect of the tyrosyl radical on structure and reactivity of the diferric center. Davydov RM, et al. **Biochemistry** 1997 Jul 29; 36(30):9093–100

Expression of natural and synthetic genes encoding herpes simplex virus 1 protease in Escherichia coli and purification of the protein. Apeler H, et al. **Eur J Biochem** 1997 Aug 1;247(3):890–5

Gene therapy against an experimental glioma using adeno-associated virus vectors. Okada H, et al.
Gene Ther 1996 Nov;3(11):957–64

Treatment of advanced mesothelioma with the recombinant adenovirus H5.010RSVTK: a phase 1 trial (BB-IND 6274). Treat J, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2047–57

Herpes simplex virus type 1 DNA polymerase. Mutational analysis of the 3'-5'-exonuclease domain. Kühn FJP, et al. **J Biol Chem** 1996 Nov 15;271(46):29245–54

The dUTPases from herpes simplex virus type 1 and mouse mammary tumour virus are less specific than the Escherichia coli enzyme. Björnberg O, et al.
J Gen Virol 1996 Dec;77 (Pt 12):3107–11

Processing and intracellular localization of the herpes simplex virus type 1 proteinase. Stevenson AJ, et al.
J Gen Virol 1997 Mar;78 (Pt 3):671–5

Synthesis and cellular uptake of 2'-substituted analogues of (E)-5-(2-[125I]iodovinyl)-2'-deoxyuridine in tumor cells transduced with the herpes simplex type-1 thymidine kinase gene. Evaluation as probes for monitoring gene therapy. Morin KW, et al. **J Med Chem** 1997 Jul 4; 40(14):2184–90

Integrated homology modelling and X-ray study of herpes simplex virus I thymidine kinase: a case study. Folkers G, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):475–94 (28 ref.)

The product of the UL12.5 gene of herpes simplex virus type 1 is a capsid-associated nuclease. Bronstein JC, et al.
J Virol 1997 Apr;71(4):3039–47

Novel retroviral vector transferring a suicide gene and a selectable marker gene with enhanced gene expression by using a tetracycline-responsive expression system. Hwang JJ, et al. **J Virol** 1996 Nov;70(11):8138–41

The catalytic subunit of the DNA polymerase of herpes simplex virus type 1 interacts specifically with the C terminus of the UL8 component of the viral helicase-primase complex. Marsden HS, et al. **J Virol** 1997 Sep;71(9):6390–7

Direct intratumoral gene transfer of the herpes simplex virus thymidine kinase gene with DNA-liposome complexes: growth inhibition of tumors and lack of localization in normal tissues. Takakuwa K, et al. **Jpn J Cancer Res** 1997 Feb;88(2):166–75

Expression, purification, and characterization of the herpes simplex virus type-1 DNA polymerase. Boehmer PE.
Methods Enzymol 1996;275:16–35

Conditional reduction of human immunodeficiency virus type 1 replication by a gain-of-herpes simplex virus 1 thymidine kinase function. Smith SM, et al.
Proc Natl Acad Sci U S A 1996 Jul 23;93(15):7955–60

Assemblin homolog of herpes simplex virus type 1 retains proteolytic activity when expressed as a recombinant two-chain enzyme. Hall MRT, et al. **Virology** 1997 Jan 6;227(1):160–7

GENETICS

Herpes simplex virus-1 plasmid vectors for gene transfer into neurons. Geller AI. **Adv Neurol** 1997;72:143–8 (35 ref.)

Quantitative analysis of polymerase chain reaction products by dot blot. Hill JM, et al. **Anal Biochem** 1996 Mar 1; 235(1):44–8

Herpes simplex virus DNA replication. Boehmer PE, et al.
Annu Rev Biochem 1997;66:347–84 (307 ref.)

Antiviral activity of an oligo(nucleoside methylphosphonate) that targets HSV-1 immediate-early pre-mRNA 4,5 is augmented by cotreatment with replication-defective adenovirus. Kulka M, et al. **Antisense Res Dev** 1995 Winter; 5(4):243–9

Metabolism and activities of 3'-azido-2',3'-dideoxythymidine and 2',3'-didehydro-2',3'-dideoxythymidine in herpesvirus thymidine kinase transduced T-lymphocytes. Drake RR, et al. **Antiviral Res** 1997 Aug;35(3):177–85

The synthesis and immunogenicity of varicella-zoster virus glycoprotein E and immediate-early protein (IE62) expressed in recombinant herpes simplex virus-1. Lowry PW, et al. **Antiviral Res** 1997 Feb;33(3):187–200

Generation of a primary immune response to a genetically inactivated (DISC) herpes simplex virus and wild type virus. Hill S, et al. **Biochem Soc Trans** 1997 May;25(2):200S

Herpes simplex virus type 1 replication and recombination. Bataille D, et al. **Biochimie** 1995;77(10):787–95 (110 ref.)

Liver-associated toxicity of the HSV-tk/GCV approach and adenoviral vectors. Brand K, et al. **Cancer Gene Ther** 1997 Jan–Feb;4(1):9–16

Coexpression of a multidrug resistance gene (MDR1) and herpes simplex virus thymidine kinase gene in a bicistronic retroviral vector Ha-MDR-IRES-TK allows selective killing of MDR1-transduced human tumors transplanted in nude mice. Sugimoto Y, et al. **Cancer Gene Ther** 1997 Jan–Feb;4(1):51–8

Evaluation of genetically engineered herpes simplex viruses as oncolytic agents for human malignant brain tumors. Andreansky S, et al. **Cancer Res** 1997 Apr 15;57(8):1502–9

Herpes simplex virus Us11 protein enhances recovery of protein synthesis and survival in heat shock treated HeLa cells. Diaz-Latoud C, et al. **Cell Stress Chaperones** 1997 Jun;2(2):119–31

A defective herpes simplex virus vector system for gene delivery into the brain: comparison with alternative gene delivery systems and usefulness for gene therapy. Neve RL, et al. **Clin Neurosci** 1995–96;3(5):262–7 (90 ref.)

A herpesvirus genetic element which affects translation in the absence of the viral GADD34 function. Mohr I, et al. **EMBO J** 1996 Sep 2;15(17):4759–66

Helper virus-free herpes simplex virus-1 plasmid vectors for gene therapy of Parkinson's disease and other neurological disorders. Geller AI, et al. **Exp Neurol** 1997 Mar; 144(1):98–102 (26 ref.)

Selective killing of Leishmania amastigotes expressing a thymidine kinase suicide gene. Muyombwe A, et al.
Exp Parasitol 1997 Jan;85(1):35–42

Gene transfer into enteric neurons of the rat small intestine in organ culture using a replication defective recombinant herpes simplex virus type 1 (HSV1) vector, but not recombinant adenovirus vectors. Brown OA, et al.
Gene Ther 1997 Apr;4(4):331–8

Gene delivery to the heart in vivo and to cardiac myocytes and vascular smooth muscle cells in vitro using herpes virus vectors. Coffin RS, et al. **Gene Ther** 1996 Jul;3(7):560–6

Gene delivery to the central and peripheral nervous systems of mice using HSV1 ICP34.5 deletion mutant vectors. Coffin RS, et al. **Gene Ther** 1996 Oct;3(10):886–91

Incorporation of nuclear matrix attachment regions into the herpes simplex virus type 1 genome does not induce long-term expression of a foreign gene during latency. Makarova O, et al. **Gene Ther** 1996 Sep;3(9):829–33

In vivo transgene activation from an HSV-based gene therapy vector by GAL4:vp16. Oligino T, et al.
Gene Ther 1996 Oct;3(10):892–9

Long-term persistence of defective HSV-1 vectors in the rat brain is demonstrated by reactivation of vector gene expression. Starr PA, et al. **Gene Ther** 1996 Jul;3(7):615–23

Viral gene delivery to skeletal muscle: insights on maturation-dependent loss of fiber infectivity for adenovirus and herpes simplex type 1 viral vectors. Feero WG, et al. **Hum Gene Ther** 1997 Mar 1;8(4):371–80

LacZ gene transfer to skeletal muscle using a replication-defective herpes simplex virus type 1 mutant vector. Huard J, et al. **Hum Gene Ther** 1997 Mar 1; 8(4):439–52

Prolonged in vivo gene expression driven by a tyrosine hydroxylase promoter in a defective herpes simplex virus amplicon vector. Jin BK, et al. **Hum Gene Ther** 1996 Oct 20;7(16):2015–24

HSV/AAV hybrid amplicon vectors extend transgene expression in human glioma cells. Johnston KM, et al.
Hum Gene Ther 1997 Feb 10;8(3):359–70

A novel 'piggyback' packaging system for herpes simplex virus amplicon vectors. Pechan PA, et al.
Hum Gene Ther 1996 Oct 20;7(16):2003–13

Herpesvirus vector-mediated gene delivery to human monocytes. Weir JP, et al. **Hum Gene Ther** 1996 Jul 10; 7(11):1331–8

Using herpes simplex virus type 1 (HSV-1) mediated gene transfer to study neurotrophins in cochlear neurons. Garrido JJ, et al. **Int J Dev Biol** 1996;Suppl 1:149S–150S

Characterization of herpes simplex virus type 1 recombinants with mutations in the cytoplasmic tail of glycoprotein H. Browne HM, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2569–73

A murine RNA polymerase I promoter inserted into the herpes simplex virus type 1 genome is functional during lytic, but not latent, infection. Lachmann RH, et al.
J Gen Virol 1996 Oct;77 (Pt 10):2575–82

Single amino acid substitutions in the glycoprotein B carboxy terminus influence the fusion from without property of herpes simplex virus type 1. Lingen M, et al.
J Gen Virol 1995 Jul;76 (Pt 7):1843–9

In vivo complementation studies of a glycoprotein H-deleted herpes simplex virus-based vector. Speck PG, et al.
J Gen Virol 1996 Oct;77 (Pt 10):2563–8

Replication of herpes simplex virus type 1 DNA is inhibited in a temperature-sensitive mutant of BHK-21 cells lacking RCC1 (regulator of chromosome condensation) and virus DNA remains linear. Umene K, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2261–70

Evaluation of retinal toxicity and efficacy of anti-cytomegalovirus and anti-herpes simplex virus antiviral phosphorothioate oligonucleotides ISIS 2922 and ISIS 4015. Flores-Aguilar M, et al. **J Infect Dis** 1997 Jun; 175(6):1308-16

Treatment of experimental subcutaneous human melanoma with a replication-restricted herpes simplex virus mutant. Randazzo BP, et al. **J Invest Dermatol** 1997 Jun; 108(6):933-7

Lack of detection of HSV DNA in PBMCs and lymph nodes of HIV-infected persons. Corey L, et al. **J Med Virol** 1996 Jan;48(1):47

Polymerase chain reaction in the investigation of "relapse" following herpes simplex encephalitis. Dennett C, et al. **J Med Virol** 1996 Feb;48(2):129-32

Low rate shedding of HSV-1 DNA, but not of infectious virus from human donor corneae into culture media. Garweg JG, et al. **J Med Virol** 1997 Jul;52(3):320-5

Comparison of the association with eczema herpeticum in the two predominant genotypes of herpes simplex virus type 1. Umene K, et al. **J Med Virol** 1996 Aug;49(4):329-32

An HSV-1 vector containing the rat tyrosine hydroxylase promoter enhances both long-term and cell type-specific expression in the midbrain. Song S, et al. **J Neurochem** 1997 May;68(5):1792-803

The replicating intermediates of herpes simplex virus type 1 DNA are relatively short [see comments] Deshmane SL, et al. **J Neurovirol** 1995 Jun;1(2):165-76. Comment in: J Neurovirol 1995 Jun;1(2):135-7.

Targeting and gene expression in spinal cord motor neurons following intramuscular inoculation of an HSV-1 vector. Keir SD, et al. **J Neurovirol** 1995 Sep;1(3-4):259-67

Deletion of the S component inverted repeat sequence c' and the nonessential genes U(S)1 through U(S)5 from the herpes simplex virus type 1 genome substantially impairs productive viral infection in cell culture and pathogenesis in the rat central nervous system. Rasty S, et al. **J Neurovirol** 1997 Aug;3(4):247-64

Herpes simplex virus latent infection in the nervous system. Steiner I, et al. **J Neurovirol** 1995 Mar;1(1):19-29 (100 ref.)

Detection of herpes simplex DNA in semen and menstrual blood of individuals attending an infertility clinic. el Borai N, et al. **J Obstet Gynaecol Res** 1997 Feb;23(1):17-24

The U(L)15 gene of herpes simplex virus type 1 contains within its second exon a novel open reading frame that is translated in frame with the U(L)15 gene product. Baines JD, et al. **J Virol** 1997 Apr;71(4):2666-73

Characterization of the products of the U(L)43 gene of herpes simplex virus 1: potential implications for regulation of gene expression by antisense transcription. Carter KL, et al. **J Virol** 1996 Nov;70(11):7663-8

Herpes simplex virus immediate-early proteins ICP0 and ICP4 activate the endogenous human alpha-globin gene in nonerythroid cells. Cheung P, et al. **J Virol** 1997 Mar; 71(3):1784-93

Herpes simplex virus genome replication and transcription during induced reactivation in the rabbit eye. Devi-Rao GB, et al. **J Virol** 1997 Sep;71(9):7039-47

Helper virus-free transfer of herpes simplex virus type 1 plasmid vectors into neural cells. Fraefel C, et al. **J Virol** 1996 Oct;70(10):7190-7

The herpes simplex virus type 1 latency-associated transcript promoter is activated through Ras and Raf by nerve growth factor and sodium butyrate in PC12 cells. Frazier DP, et al. **J Virol** 1996 Nov;70(11):7424-32

Identification of cis-acting sequences in the promoter of the herpes simplex virus type 1 latency-associated transcripts required for activation by nerve growth factor and sodium butyrate in PC12 cells. Frazier DP, et al. **J Virol** 1996 Nov; 70(11):7433-44

Site-directed and linker insertion mutagenesis of herpes simplex virus type 1 glycoprotein H. Galdiero M, et al. **J Virol** 1997 Mar;71(3):2163-70

Latent herpes simplex virus type 1 gene expression in ganglia innervating the human gastrointestinal tract. Gesser RM, et al. **J Virol** 1997 May;71(5):4103-6

The abundant latency-associated transcripts of herpes simplex virus type 1 are bound to polyribosomes in cultured neuronal cells and during latent infection in mouse trigeminal ganglia. Goldenberg D, et al. **J Virol** 1997 Apr; 71(4):2897-904

Differential effects of nerve growth factor and dexamethasone on herpes simplex virus type 1 oriL- and oriS-dependent DNA replication in PC12 cells. Hardwicke MA, et al. **J Virol** 1997 May;71(5):3580-7

A 437-base-pair deletion at the beginning of the latency-associated transcript promoter significantly reduced adrenergically induced herpes simplex virus type 1 ocular reactivation in latently infected rabbits. Hill JM, et al. **J Virol** 1997 Sep;71(9):6555-9

Utilization of the herpes simplex virus type 1 latency-associated regulatory region to drive stable reporter gene expression in the nervous system. Lachmann RH, et al. **J Virol** 1997 Apr;71(4):3197-207

The latency-associated promoter of herpes simplex virus type 1 requires a region downstream of the transcription start site for long-term expression during latency. Lokensgard JR, et al. **J Virol** 1997 Sep;71(9):6714-9

The a sequence is dispensable for isomerization of the herpes simplex virus type 1 genome. Martin DW, et al. **J Virol** 1996 Dec;70(12):8801-12

Transcriptional targeting of herpes simplex virus for cell-specific replication. Miyatake S, et al. **J Virol** 1997 Jul;71(7):5124-32

Transcription of the derepressed open reading frame P of herpes simplex virus 1 precludes the expression of the antisense gamma(1)34.5 gene and may account for the attenuation of the mutant virus. Randall G, et al. **J Virol** 1997 Oct;71(10):7750-7

Na, an autoproteolytic product of the herpes simplex virus type 1 protease, can functionally substitute for the assembly protein ICP35. Robertson BJ, et al. **J Virol** 1997 Feb; 71(2):1683-7

Defective herpes simplex virus type 1 vectors harboring gag, pol, and env genes can be used to rescue defective retrovirus vectors. Savard N, et al. **J Virol** 1997 May; 71(5):4111-7

Comprehensive quantification of herpes simplex virus latency at the single-cell level. Sawtell NM. **J Virol** 1997 Jul; 71(7):5423-31

Cooperation between herpes simplex virus type 1-encoded ICP0 and Tat to support transcription of human immunodeficiency virus type 1 long terminal repeat in vivo can occur in the absence of the TAR binding site. Schafer SL, et al. **J Virol** 1996 Oct;70(10):6937-46

Mutational analysis of ICP0R, a transrepressor protein created by alternative splicing of the ICP0 gene of herpes simplex virus type 1. Spatz SJ, et al. **J Virol** 1996 Nov; 70(11):7360-70

Repression of host RNA polymerase II transcription by herpes simplex virus type 1. Spencer CA, et al. **J Virol** 1997 Mar;71(3):2031-40

Gene expression during reactivation of herpes simplex virus type 1 from latency in the peripheral nervous system is different from that during lytic infection of tissue cultures. Tal-Singer R, et al. **J Virol** 1997 Jul;71(7):5268-76

The herpes simplex virus type 1 latency-associated transcript gene regulates the establishment of latency. Thompson RL, et al. **J Virol** 1997 Jul;71(7):5432-40

Inhibition of generation of authentic genomic termini of herpes simplex virus type 1 DNA in temperature-sensitive mutant BHK-21 cells with a mutated CCG1/TAF(II)250 gene. Umene K, et al. **J Virol** 1996 Dec;70(12):9008-12

A hybrid herpesvirus infectious vector based on Epstein-Barr virus and herpes simplex virus type 1 for gene transfer into human cells in vitro and in vivo. Wang S, et al. **J Virol** 1996 Dec;70(12):8422-30

Identification of a promoter-specific transactivation domain in the herpes simplex virus regulatory protein ICP4. Xiao W, et al. **J Virol** 1997 Mar;71(3):1757-65

Direct repeats of the herpes simplex virus a sequence promote nonconservative homologous recombination that is not dependent on XPF/ERCC4. Yao XD, et al. **J Virol** 1997 Sep;71(9):6842-9

Characterization of ICP6::lacZ insertion mutants of the UL15 gene of herpes simplex virus type 1 reveals the translation of two proteins. Yu D, et al. **J Virol** 1997 Apr;71(4):2656-65

Assembly of complete, functionally active herpes simplex virus DNA replication compartments and recruitment of associated viral and cellular proteins in transient cotransfection assays. Zhong L, et al. **J Virol** 1997 Apr; 71(4):3146-60

An African swine fever virus virulence-associated gene NL-S with similarity to the herpes simplex virus ICP34.5 gene. Zsak L, et al. **J Virol** 1996 Dec;70(12):8865-71

An improved rapid method for purification of herpes simplex virus DNA using cesium trifluoroacetate. Ling JY, et al. **J Virol Methods** 1996 Apr 26;58(1-2):193-8

Detection of herpes simplex virus DNA in tear fluid of stromal herpetic keratitis patients by nested polymerase chain reaction. Kudo E, et al. **Jpn J Ophthalmol** 1996; 40(3):390-6

Enhancement of gene expression by Marek's disease virus homologue of the herpes simplex virus-1 ICP4. Endoh D. **Jpn J Vet Res** 1996 Aug;44(2):136-7

Use of defective herpes-derived plasmid vectors. Lim F, et al. **Methods Mol Biol** 1997;62:223-32

In vitro selection of variants of herpes simplex virus type 1 which differ in cytopathic changes. Padilla J, et al. **Microbiol Immunol** 1997;41(3):203-7

Genomic polymorphism in herpes simplex virus keratitis. Martínez MJ, et al. **Microbiologia** 1997 Mar;13(1):75-8

Involvement of a high-mobility-group protein in the transcriptional activity of herpes simplex virus latency-active promoter 2. French SW, et al. **Mol Cell Biol** 1996 Oct;16(10):5393-9

Quantitation of herpes simplex virus type 1 DNA in cells of cerebrospinal fluid of patients with herpes simplex virus encephalitis. Wildemann B, et al. **Neurology** 1997 May; 48(5):1341-6

HSV-1 vector mediated transfer of BDNF into cerebellar granule cells. Alonso MT, et al. **Neuroreport** 1996 Nov 25;7(18):3105-8

Expression of herpes virus thymidine kinase in Neurospora crassa. Sachs MS, et al. **Nucleic Acids Res** 1997 Jun 15; 25(12):2389-95

Open reading frame P—a herpes simplex virus gene repressed during productive infection encodes a protein that binds a splicing factor and reduces synthesis of viral proteins made from spliced mRNA. Bruni R, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10423-7

Unwinding of the box I element of a herpes simplex virus type 1 origin by a complex of the viral origin binding protein, single-strand DNA binding protein, and single-stranded DNA. Lee SS, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2838-42

The product of ORF O located within the domain of herpes simplex virus 1 genome transcribed during latent infection binds to and inhibits in vitro binding of infected cell protein 4 to its cognate DNA site. Randall G, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10379-84

Use of herpes simplex virus thymidine kinase to improve the antiviral activity of zidovudine. Guettari N, et al. **Virology** 1997 Sep 1;235(2):398-405

Upstream stimulatory factor family binds to the herpes simplex virus type 1 latency-associated transcript promoter. Kenny JJ, et al. **Virology** 1997 Apr 14; 230(2):381-91

The UL 16 gene product of herpes simplex virus 1 is a virion protein that colocalizes with intranuclear capsid proteins. Nalwanga D, et al. **Virology** 1996 Dec 15;226(2):236-42

Infected cell protein 22 of herpes simplex virus 1 regulates the expression of virion host shutoff gene U(L)41. Ng TI, et al. **Virology** 1997 Aug 4;234(2):226-34

Modified entry and syncytium formation by herpes simplex virus type 1 mutants selected for resistance to heparin inhibition. Pertel PE, et al. **Virology** 1996 Dec 1; 226(1):22-33

Differentiation of the shutoff of protein synthesis by virion host shutoff and mutant gamma (1)34.5 genes of herpes simplex virus 1. Poon AP, et al. **Virology** 1997 Mar 3; 229(1):98-105

Construction and characterization of herpes simplex virus type 1 mutants with conditional defects in immediate early gene expression. Preston CM, et al. **Virology** 1997 Mar 3; 229(1):228-39

Construction and characterization of a recombinant herpes simplex virus type 1 which overexpresses the transrepressor protein ICP0R. Spatz SJ, et al. **Virology** 1997 Feb 17; 228(2):218-28

Inducible gene expression of the human immunodeficiency virus LTR in a replication-incompetent herpes simplex virus vector. Warden MP, et al. **Virology** 1996 Dec 1; 226(1):127-31

Two mutations in gB-1 and gD-1 of herpes simplex virus type 1 are involved in the "fusion from without" phenotype in different cell types. Lingen M, et al. **Virus Genes** 1996; 13(3):221-8

Identification and DNA sequence analysis of the Marek's disease virus serotype 2 genes homologous to the thymidine kinase and UL24 genes of herpes simplex virus type 1. Shimojima Y, et al. **Virus Genes** 1997;14(1):81-7

Enhancement of HSV-DNA infectivity, in Vero and RS cells, by a modified calcium-phosphate transfection technique. Tognon M, et al. **Virus Genes** 1996;12(2):193-7

The BamHI fragment 9 of pseudorabies virus contains genes homologous to the UL24, UL25, UL26, and UL 26.5 genes of herpes simplex virus type 1. Dezélée S, et al. **Virus Res** 1996 Jun;42(1-2):27-39

The UL3 open reading frame of herpes simplex virus type 1 codes for a phosphoprotein. Ghiasi H, et al. **Virus Res** 1996 Oct;44(2):137-42

Nucleotide sequence and transcriptional analysis of a portion of the bovine herpesvirus genome encoding genes homologous to HSV-1, UL25, UL26 and UL26.5. Haanes EJ, et al. **Virus Res** 1997 Apr;48(1):19-26

Comparative analyses of the latency-associated transcript promoters from herpes simplex virus type 1 strains H129, +GC and KOS-63. Ling JY, et al. **Virus Res** 1997 Jul; 50(1):95-106

The syn3 strain HSZP of herpes simplex virus type 1 (HSV-1) is not pathogenic for mice and shows limited neural spread. Rajčáni J, et al. **Virus Res** 1996 Jul; 43(1):33-44

The expression of the proteins of equine herpesvirus 1 which share homology with herpes simplex virus 1 glycoproteins H and L. Stokes A, et al. **Virus Res** 1996 Jan;40(1):91-107

[Utilization of herpes simplex virus-1 thymidine kinase gene in stem cell transplantation therapy] Tiberghien P, et al. **Hematol Cell Ther** 1996 Oct;38(5):464 **(Fre)**

[Gene therapy in neurology. State of the art and future prospects] Duarte RG. **Neurologia** 1995 Dec;10 Suppl 1:56-61 (14 ref.) (Eng. Abstr.) **(Spa)**

GROWTH & DEVELOPMENT

Suppression of enveloped virus production with a substance from silkworm faeces. Hiraki A, et al. **Cell Struct Funct** 1996 Dec;21(6):501-14

Growth of herpes simplex type 1 on skin explants of atopic eczema. Goodyear HM, et al. **Clin Exp Dermatol** 1996 May; 21(3):185-9

A comparison of recurrent and primary herpes simplex keratitis in NIH inbred mice. Miller JK, et al. **Cornea** 1996 Sep;15(5):497-504

Herpes simplex virus type I reactivation as a cause of a unilateral temporary paralysis of the vagus nerve. Bachor E, et al. **Eur Arch Otorhinolaryngol** 1996;253(4-5):297-300

Distribution of ribosomal genes in nucleoli of herpes simplex virus type 1 infected cells. Besse S, et al. **Eur J Cell Biol** 1996 Sep;71(1):33-44

High-resolution immuno-scanning electron microscopy using a non-coating method: study of herpes simplex virus glycoproteins on the surface of virus particles and infected cells. Padilla JA, et al. **J Electron Microsc (Tokyo)** 1997; 46(2):171-80

Replacement of the herpes simplex virus type 1 Vmw175

DNA binding domain with its varicella-zoster virus counterpart results in a protein with novel regulatory properties that can support virus growth. Tyler JK, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):179–88

The replicating intermediates of herpes simplex virus type 1 DNA are relatively short [see comments] Deshmane SL, et al. **J Neurovirol** 1995 Jun;1(2):165–76. Comment in: J Neurovirol 1995 Jun;1(2):135–7.

Herpes simplex virus type 1 prereplicative sites are a heterogeneous population: only a subset are likely to be precursors to replication compartments. Lukonis CJ, et al. **J Virol** 1997 Jun;71(6):4771–81

Effects of nerve growth factor and phorbol derivative on reactivation of herpes simplex virus type 1 in cultured cells of latently infected adult mouse trigeminal ganglia. Kimura S. **Microbiol Immunol** 1996;40(9):645–50

IMMUNOLOGY

Herpes virus-specific immune responses in individuals experiencing recurrent genital herpes. Boswell CM, et al. **Biochem Soc Trans** 1997 May;25(2):278S

Expression of interleukin-10 mRNA in herpes simplex virus-infected keratinocytes in vivo and in vitro. Halliday KE, et al. **Biochem Soc Trans** 1997 May;25(2):282S

Generation of a primary immune response to a genetically inactivated (DISC) herpes simplex virus and wild type virus. Hill S, et al. **Biochem Soc Trans** 1997 May;25(2):200S

Large scale comparison of adjuvant effects on immunogenicity and protection in a herpes simplex virus type 1 vaccination model. Simms JR, et al. **Biochem Soc Trans** 1997 May;25(2):272S

Orally administered HSV-specific transfer factor (TF) prevents genital or labial herpes relapses. Pizza G, et al. **Biotherapy** 1996;9(1–3):67–72

Stressor-induced alterations in immune response and viral clearance following infection with herpes simplex virus-type 1 in BALB/c and C57B1/6 mice. Brenner GJ, et al. **Brain Behav Immun** 1997 Mar;11(1):9–23

Psychosocial influences on immune responses to HSV-1 infection in BALB/c mice. Karp JD, et al. **Brain Behav Immun** 1997 Mar;11(1):47–62

Seroprevalence of herpes simplex virus types 1 and 2 and cytomegalovirus in adolescents. Rosenthal SL, et al. **Clin Infect Dis** 1997 Feb;24(2):135–9

An immunologist's view of herpes simplex keratitis: Thygeson Lecture 1996, presented at the Ocular Microbiology and Immunology Group meeting, October 26, 1996. Hendricks RL. **Cornea** 1997 Sep;16(5):503–6

T-cell subsets and T-cell receptor V beta utilization by Igh-1-congenic mice in herpetic retinal necrosis. Berra A, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S83–8

Diagnostic vitrectomy and chronic uveitis. Verbraeken H. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S2–7

Human herpes viruses latent infection in the nervous system. Steiner I. **Immunol Rev** 1996 Aug;152:157–73 (110 ref.)

Correlation between herpes and Epstein-Barr viruses and acute myocardial infarction [letter] Liguori A, et al. **Int J Cardiol** 1996 Dec 6;57(2):185–6

Antigenic differences between HSV-1 and HSV-2 glycoproteins and their importance for type-specific serology. Bergström T, et al. **Intervirology** 1996; 39(3):176–84 (79 ref.)

Escherichia coli expressed herpes simplex virus gG1 and gG2 proteins in ELISA and immunoblotting assays. Kakkanas A, et al. **Intervirology** 1995;38(6):346–51

Epitope mapping and functional characterization of monoclonal antibodies specific for herpes simplex virus type I DNA polymerase. Strick R, et al. **Intervirology** 1997; 40(1):41–9

Real time observation of binding of herpes simplex virus type 1 (HSV-1) to Vero cells and neutralization of HSV-1 by sulfonated human immunoglobulin. Inoue K, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):633–6

Real time observation of the binding of herpes simplex virus type 1 (HSV-1) to immobilized heparan sulfate and the neutralization of HSV-1 by sulfonated human immunoglobulin. Inoue K, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):233–5

Apoptosis of cord blood T lymphocytes by herpes simplex virus type 1. Ito M, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1971–5

Protective immunity against herpes simplex virus (HSV) type 1 following oral administration of recombinant Salmonella typhimurium vaccine strains expressing HSV antigens. Karem KL, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):427–34

Reactivation of herpes simplex virus type 1 in the mouse trigeminal ganglion: an in vivo study of virus antigen and immune cell infiltration [published erratum appears in J Gen Virol 1996 Dec;77(Pt 12):3165] Shimeld C, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2583–90

Quantitative determination and visualization of herpes simplex virus type 1 antigen, free and cell-bound by ELISA. Tirado R, et al. **J Immunoassay** 1996 Aug; 17(3):277–91

Persistent cytokine expression in trigeminal ganglion latently infected with herpes simplex virus type 1. Halford WP, et al. **J Immunol** 1996 Oct 15;157(8):3542–9

Mechanism of complement inactivation by glycoprotein C of herpes simplex virus. Kostavasili I, et al. **J Immunol** 1997 Feb 15;158(4):1763–71

T cell recognition and cytokine production elicited by common and type-specific glycoproteins of herpes simplex virus type 1 and type 2. Carmack MA, et al. **J Infect Dis** 1996 Nov;174(5):899–906

Efficacy of a recombinant glycoprotein D subunit vaccine on the development of primary and recurrent ocular infection with herpes simplex virus type 1 in mice. Keadle TL, et al. **J Infect Dis** 1997 Aug;176(2):331–8

Enhancement of immune response to naked DNA vaccine by immunization with transfected dendritic cells. Manickan E, et al. **J Leukoc Biol** 1997 Feb;61(2):125–32

Protective effects of interferon-gamma in intraocular herpes simplex type 1 infection do not depend on major histocompatibility complex class I or class II expression. Geiger KD, et al. **J Neurovirol** 1995 Dec;1(5–6):405–9

Prevalence of antibodies to hepatitis C and herpes simplex virus type 1 is not increased in children with liver kidney microsomal type 1 autoimmune hepatitis. Gregorio GV, et al. **J Pediatr Gastroenterol Nutr** 1996 Dec;23(5):534–7

Immunization with a replication-deficient mutant of herpes simplex virus type 1 (HSV-1) induces a CD8+ cytotoxic T-lymphocyte response and confers a level of protection comparable to that of wild-type HSV-1. Brehm MA, et al. **J Virol** 1997 May;71(5):3534–44

Induction of mucosal immunity against herpes simplex virus by plasmid DNA immunization. Kuklin N, et al. **J Virol** 1997 Apr;71(4):3138–45

Antigenic structure of soluble herpes simplex virus (HSV) glycoprotein D correlates with inhibition of HSV infection. Nicola AV, et al. **J Virol** 1997 Apr;71(4):2940–6

High frequency of CD8+ cytotoxic T-lymphocyte precursors specific for herpes simplex viruses in persons with genital herpes. Posavad CM, et al. **J Virol** 1996 Nov; 70(11):8165–8

The efficacy and safety of Skinner herpes simplex vaccine towards modulation of herpes genitalis; report of a prospective double-blind placebo-controlled trial. Skinner GR, et al. **Med Microbiol Immunol (Berl)** 1997 Jun; 186(1):31–6

Herpes simplex virus-specific IgM, IgA and IgG subclass antibody responses in primary and nonprimary genital herpes patients. Hashido M, et al. **Microbiol Immunol** 1997; 41(5):415–20

The acquisition of herpes simplex virus during pregnancy. Brown ZA, et al. **N Engl J Med** 1997 Aug 21;337(8):509–15

Effects of the passive transfer of anti-gB antibodies in a rabbit model of HSV-1-induced keratitis. Incorvaia C, et al. **Ophthalmologica** 1995;209(6):340–5

Production of interferon-alpha/beta by murine dendritic cell lines stimulated by virus and bacteria. Eloranta ML, et al. **Scand J Immunol** 1997 Sep;46(3):235–41

Vaccination with a cocktail of seven recombinantly expressed HSV-1 glycoproteins protects against ocular HSV-1 challenge more efficiently than vaccination with any individual glycoprotein. Ghiasi H, et al. **Vaccine** 1996 Feb; 14(2):107–12

Immune responses in mice induced by HSV-1 glycoproteins presented with ISCOMs or NISV delivery systems. Hassan Y, et al. **Vaccine** 1996 Dec;14(17–18):1581–9

Induction of a protective immune response by mucosal vaccination with a DISC HSV-1 vaccine. McLean CS, et al. **Vaccine** 1996 Jul;14(10):987–92

Enhancement of the immune response to non-replicating herpes simplex virus type-1 preparations by mucosal administration in the presence of cholera toxin. Richards CM, et al. **Vaccine** 1997 Jul;15(10):1065–9

Augmentation of cell-mediated immunotherapy against herpes simplex virus by interleukins: comparison of in vivo effects of IL-2 and IL-7 on adoptively transferred T cells. Wiryana P, et al. **Vaccine** 1997 Apr;15(5):561–3

Induction of protective immunity against herpes simplex virus with DNA encoding the immediate early protein ICP 27. Manickan E, et al. **Viral Immunol** 1995;8(2):53–61

Induction and persistence of a cytotoxic T lymphocyte (CTL) response against a herpes simplex virus-specific CTL epitope expressed in a cellular protein. Fu TM, et al. **Virology** 1996 Aug 1;222(1):269–74

Vaccination with herpes simplex virus type 1 glycoprotein K impairs clearance of virus from the trigeminal ganglia resulting in chronic infection. Ghiasi H, et al. **Virology** 1996 Oct 1;224(1):330–3

[Study of an experimental herpesvirus infection during irradiation] Alimbarova LM, et al. **Vopr Virusol** 1996 Sep-Oct;41(5):228–32 (Eng. Abstr.) **(Rus)**

[Evaluation of the immune and interferon status of children infected with herpes simplex virus and living in areas with increased radiation background] Alimbarova LM, et al. **Vopr Virusol** 1997 Jan-Feb;42(1):36–41 (Eng. Abstr.) **(Rus)**

ISOLATION & PURIFICATION

Determination of the DNA target sequence of poorly reactivable strain HSZP of herpes simplex virus type 1 by polymerase chain reaction. Kúdelová M, et al. **Acta Virol** 1996 Feb;40(1):15–21

Polymerase chain reaction detection of herpes simplex virus in tear fluid from atypical herpetic epithelial keratitis after penetrating keratoplasty. Tei M, et al. **Am J Ophthalmol** 1996 Nov;122(5):732–5

9-(4-Hydroxybutyl)-N2-phenylguanine (HBPG), a thymidine kinase inhibitor, suppresses herpes virus reactivation in mice. Gebhardt BM, et al. **Antiviral Res** 1996 May;30(2–3):87–94

Purification of herpes simplex virus type 1 by density gradient centrifugation and estimation of the sedimentation coefficient of the virion. Sathananthan B, et al. **APMIS** 1997 Mar;105(3):238–46

Herpes simplex virus in primary graft failure. Cockerham GC, et al. **Arch Ophthalmol** 1997 May;115(5):586–9

Replication of herpes simplex virus type 1 and 2 in the medulla of the adrenal gland after vaginal infection of mice. Podlech J, et al. **Arch Virol** 1996;141(10):1999–2008

Canalicular stenosis in the course of primary herpes simplex infection [letter] Jager GV, et al. **Br J Ophthalmol** 1997 Apr;81(4):332 (8 ref.)

Herpes simplex virus infection in burned patients: epidemiology of 11 cases. Bourdarias B, et al. **Burns** 1996 Jun;22(4):287–90

Inoculation herpes simplex virus infections in patients with AIDS: unusual appearance and location of lesions. Weaver G, et al. **Clin Infect Dis** 1996 Jan;22(1):141–2

Detection of herpes simplex virus type 1 by an in situ polymerase chain reaction technique. Berra A, et al. **Cornea** 1996 Jan;15(1):55–61

Undetected viral infection in diffuse alveolar damage associated with bone marrow transplantation [see comments] Barberà JA, et al. **Eur Respir J** 1996 Jun; 9(6):1195–200. Comment in: Eur Respir J 1996 Jun;9(6):1115–7.

Clinical characteristics of acyclovir-resistant herpetic keratitis and experimental studies of isolates. Yao YF, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S126–32

Association of herpes simplex virus type-I and human papilloma virus with carcinoma of the oral cavity and oropharynx. Ahmed S, et al. **J Environ Pathol Toxicol Oncol** 1995;14(3–4):193–6

Localization of latency-associated transcripts in the uterovaginal plexus of herpes simplex virus type 1 and 2 latently infected mice. Podlech J, et al. **J Gen Virol** 1997 May;78 (Pt 5):1103–8

Evaluation of a new general primer pair for rapid detection and differentiation of HSV-1, HSV-2, and VZV by polymerase chain reaction. Baron JM, et al. **J Med Virol** 1996 Aug;49(4):279–82

Detection of both herpes simplex and varicella-zoster viruses in cerebrospinal fluid from patients with encephalitis. Casas I, et al. **J Med Virol** 1996 Sep;50(1):82–92

Suitability and clinical application of a multiplex nested PCR assay for the diagnosis of herpes simplex virus infections. Cassinotti P, et al. **J Med Virol** 1996 Sep;50(1):75–81

HSV-1 and HSV-2 in herpes simplex encephalitis: a study of sixty-four cases in the United Kingdom. Dennett C, et al. **J Med Virol** 1997 Sep;53(1):1–3

Neurotropic viruses and Alzheimer's disease: a search for varicella zoster virus DNA by the polymerase chain reaction. Lin WR, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):586–9

Detection of herpes simplex virus type 1 shedding in the oral cavity by polymerase chain reaction and enzyme-linked immunosorbent assay at the prodromal stage of recrudescent herpes labialis. Scott DA, et al. **J Oral Pathol Med** 1997 Aug;26(7):305–9

Detection of herpes simplex virus DNA in cerebrospinal fluid samples using the polymerase chain reaction and microplate hybridization. Vesanen M, et al. **J Virol Methods** 1996 May; 59(1–2):1–11

Herpes simplex virus type 1 in brain and risk of Alzheimer's disease [see comments] Itzhaki RF, et al. **Lancet** 1997 Jan 25;349(9047):241–4. Comment in: Lancet 1997 Apr 12;349(9058):1101; discussion 1101–2. Comment in: Lancet 1997 Apr 12;349(9058):1102.

Neurotropic viruses and Alzheimer disease. Interaction of herpes simplex type 1 virus and apolipoprotein E in the etiology of the disease. Lin WR, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1–3):135–41

Herpes simplex virus and pregnancy. Forsgren M, et al. **Scand J Infect Dis Suppl** 1996;100:14–9

Limiting the spread of genital herpes. Kinghorn GR. **Scand J Infect Dis Suppl** 1996;100:20–5 (39 ref.)

METABOLISM

A bcl-2 expressing viral vector protects cortical neurons from excitotoxicity even when administered several hours after the toxic insult. Jia WW, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):350–3

Real time observation of the binding of herpes simplex virus type 1 (HSV-1) to immobilized heparan sulfate and the neutralization of HSV-1 by sulfonated human immunoglobulin. Inoue K, et al. **J Biochem (Tokyo)** 1996 Aug;120(2):233–5

Real time observation of binding of herpes simplex virus type 1 (HSV-1) to Vero cells and neutralization of HSV-1 by sulfonated human immunoglobulin. Inoue K, et al. **J Biochem (Tokyo)** 1997 Apr;121(4):633–6

The UL8 subunit of the heterotrimeric herpes simplex virus type 1 helicase-primase is required for the unwinding of single strand DNA-binding protein (ICP8)-coated DNA substrates. Falkenberg M, et al. **J Biol Chem** 1997 Sep 5; 272(36):22766–70

The nucleotidylylation of herpes simplex virus 1 regulatory protein alpha22 by human casein kinase II. Mitchell C, et al. **J Biol Chem** 1997 Oct 3;272(40):25394–400

Microtubule-mediated transport of incoming herpes simplex

virus 1 capsids to the nucleus. Sodeik B, et al. **J Cell Biol** 1997 Mar 10;136(5):1007–21

Intranuclear retention of ribosomal RNAs in response to herpes simplex virus type 1 infection. Besse S, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):119–29

The cellular RING finger protein PML is not a functional counterpart of the herpes simplex virus type 1 RING finger protein Vmw110. Everett RD, et al. **J Gen Virol** 1995 Apr; 76 (Pt 4):791–8

A functional interaction of ICP8, the herpes simplex virus single-stranded DNA-binding protein, and the helicase-primase complex that is dependent on the presence of the UL8 subunit. Hamatake RK, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):857–65

The herpes simplex virus type 1 UL8 protein influences the intracellular localization of the UL52 but not the ICP8 or POL replication proteins in virus-infected cells. Marsden HS, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2241–9

Multiple interactions control the intracellular localization of the herpes simplex virus type 1 capsid proteins. Rixon FJ, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2251–60

Dextran sulfate can act as an artificial receptor to mediate a type-specific herpes simplex virus infection via glycoprotein B. Dyer AP, et al. **J Virol** 1997 Jan; 71(1):191–8

Inhibition of human immunodeficiency virus replication by the herpes simplex virus virion host shutoff protein. Hamouda T, et al. **J Virol** 1997 Jul;71(7):5521–7

The basal lamina is a physical barrier to herpes simplex virus-mediated gene delivery to mature muscle fibers. Huard J, et al. **J Virol** 1996 Nov;70(11):8117–23

Interaction of herpes simplex virus 1 alpha regulatory protein ICP0 with elongation factor 1delta: ICP0 affects translational machinery. Kawaguchi Y, et al. **J Virol** 1997 Feb;71(2):1019–24

Attenuation of DNA-dependent protein kinase activity and its catalytic subunit by the herpes simplex virus type 1 transactivator ICP0. Lees-Miller SP, et al. **J Virol** 1996 Nov;70(11):7471–7

Formation of herpes simplex virus type 1 replication compartments by transfection: requirements and localization to nuclear domain 10. Lukonis CJ, et al. **J Virol** 1997 Mar;71(3):2390–9

Accessory human cytomegalovirus glycoprotein US9 in the unique short component of the viral genome promotes cell-to-cell transmission of virus in polarized epithelial cells. Maidji E, et al. **J Virol** 1996 Dec;70(12):8402–10

Use of transdominant mutants of the origin-binding protein (UL9) of herpes simplex virus type 1 to define functional domains. Malik AK, et al. **J Virol** 1996 Nov;70(11):7859–66

The RGG box motif of the herpes simplex virus ICP27 protein mediates an RNA-binding activity and determines in vivo methylation. Mears WE, et al. **J Virol** 1996 Nov; 70(11):7445–53

Physical and functional interactions between herpes simplex virus immediate-early proteins ICP4 and ICP27. Panagiotidis CA, et al. **J Virol** 1997 Feb;71(2):1547–57

Self-association of herpes simplex virus type 1 ICP35 is via coiled-coil interactions and promotes stable interaction with the major capsid protein. Pelletier A, et al. **J Virol** 1997 Jul;71(7):5197–208

Glycoprotein H of herpes simplex virus type 1 requires glycoprotein L for transport to the surfaces of insect cells. Westra DF, et al. **J Virol** 1997 Mar;71(3):2285–91

The gamma(1)34.5 protein of herpes simplex virus 1 complexes with protein phosphatase 1alpha to dephosphorylate the alpha subunit of the eukaryotic translation initiation factor 2 and preclude the shutoff of protein synthesis by double-stranded RNA-activated protein kinase. He B, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):843–8

Phosphorylation of the herpes simplex virus type 1 tegument protein VP22. Elliott G, et al. **Virology** 1996 Dec 1; 226(1):140–5

Intracellular localization of the herpes simplex virus type-1 origin binding protein, UL9 [published erratum appears in Virology 1997 Jan 6;227(1):268] Malik AK, et al. **Virology** 1996 Oct 15;224(2):380–9

Assembly of herpes simplex virus replication proteins at two distinct intranuclear sites. Uprichard SL, et al. **Virology** 1997 Mar 3;229(1):113–25

Calnexin associates with the precursors of glycoproteins B, C, and D of herpes simplex virus type 1. Yamashita Y, et al. **Virology** 1996 Nov 1;225(1):216–22

Two-dimensional gel analysis of [35S]methionine labelled and phosphorylated proteins present in virions and light particles of herpes simplex virus type 1, and detection of potentially new structural proteins. Sathananthan B, et al. **Virus Res** 1996 Dec;46(1-2):1–18

PATHOGENICITY

Coinfection of the central nervous system by cytomegalovirus and herpes simplex virus type 1 or 2 in AIDS patients: autopsy study on 82 cases by immunohistochemistry and polymerase chain reaction. Vago L, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):404–8

The spectrum of herpes simplex virus disease of the anterior segment in the 1990s. Claoué C, et al. **Acta Ophthalmol Scand** 1996 Aug;74(4):407–10

The herpes simplex virus type 1 ribonucleotide reductase is required for acute retinal disease. Brandt CR, et al. **Arch Virol** 1997;142(5):883–96

Genital herpes infection: a review. Brugha R, et al. **Int J Epidemiol** 1997 Aug;26(4):698–709 (127 ref.)

Characterization of herpes simplex virus type 1 recombinants with mutations in the cytoplasmic tail of glycoprotein H. Browne HM, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2569–73

Nitric oxide production induced by herpes simplex virus type 1 does not alter the course of the infection in human monocytic cells. López-Guerrero JA, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1977–80

Persistent cytokine expression in trigeminal ganglion latently infected with herpes simplex virus type 1. Halford WP, et al. **J Immunol** 1996 Oct 15;157(8):3542–9

Proinflammatory functions of IL-2 in herpes simplex virus corneal infection. Tang Q, et al. **J Immunol** 1997 Feb 1; 158(3):1275–83

Effect of herpes simplex virus on the DNA of human papillomavirus 18. Hara Y, et al. **J Med Virol** 1997 Sep; 53(1):4–12

Rescue of HSV-1 neurovirulence is associated with induction of brain interleukin-1 expression, prostaglandin synthesis and neuroendocrine responses [see comments] Ben-Hur T, et al. **J Neurovirol** 1996 Aug;2(4):279–88. Comment in: J Neurovirol 1996 Aug;2(4):225–9.

The transneuronal spread phenotype of herpes simplex virus type 1 infection of the mouse hind footpad. Engel JP, et al. **J Virol** 1997 Mar;71(3):2425–35

Mixed vaginal infections of Balb/c mice with low virulent herpes simplex type 1 strains result in restoration of virulence properties: vaginitis/vulvitis and neuroinvasiveness. Lingen M, et al. **Med Microbiol Immunol (Berl)** 1997 Mar;185(4):217–22

In vitro selection of variants of herpes simplex virus type 1 which differ in cytopathic changes. Padilla J, et al. **Microbiol Immunol** 1997;41(3):203–7

Thymidine kinase and susceptibility to interferon are not involved in the increased virulence of recombinant viruses isolated following mixed ocular infection with HSV strains OD4 and CJ394. Pumfery AM, et al. **Ophthalmic Res** 1996; 28(2):125–9

Pathology of chronic herpes infection associated with seizure disorder: a report of two cases with tissue detection of herpes simplex virus 1 by the polymerase chain reaction. Jay V, et al. **Pediatr Pathol Lab Med** 1995 Jan-Feb; 15(1):131–46

Restitution of the UL56 gene expression of HSV-1 HFEM led to restoration of virulent phenotype; deletion of the amino acids 217 to 234 of the UL56 protein abrogates the virulent phenotype. Kehm R, et al. **Virus Res** 1996 Jan; 40(1):17–31

The syn3 strain HSZP of herpes simplex virus type 1 (HSV-1) is not pathogenic for mice and shows limited neural spread. Rajčáni J, et al. **Virus Res** 1996 Jul; 43(1):33–44

[The structure of the skin of the external auditory canal and the antiviral activity of the cerumen in carnivorous mammals] Sokolov VE, et al. **Izv Akad Nauk Ser Biol** 1996 Jul-Aug;(4):430–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Aerosolization of infectious virus by excimer laser. Moreira LB, et al. **Am J Ophthalmol** 1997 Mar;123(3):297–302

Gene transfer to neurons using herpes simplex virus-based vectors. Fink DJ, et al. **Annu Rev Neurosci** 1996;19:265–87 (111 ref.)

Herpes simplex virus-mediated activation of human immunodeficiency virus is inhibited by oligonucleoside methylphosphonates that target immediate-early mRNAs 1 and 3. Feng CP, et al. **Antisense Nucleic Acid Drug Dev** 1996 Spring;6(1):25–35

Differential effect of recombinant human and mouse interferons on replication of herpes simplex virus type 1 in mouse cells. Wintergerst U, et al. **Antiviral Res** 1996 Aug;32(1):27–34

Laminin reduces HSV-1 spread from cell to cell in human keratinocyte cultures. Weeks BS, et al. **Biochem Biophys Res Commun** 1997 Jan 13;230(2):466–9

Intercellular trafficking and protein delivery by a herpesvirus structural protein. Elliott G, et al. **Cell** 1997 Jan 24; 88(2):223–33

Effect of a beta-adrenergic antagonist, propranolol, on induced HSV-1 ocular recurrence in latently infected rabbits. Garza HH Jr, et al. **Curr Eye Res** 1997 May; 16(5):453–8

A novel ubiquitin-specific protease is dynamically associated with the PML nuclear domain and binds to a herpesvirus regulatory protein. Everett RD, et al. **EMBO J** 1997 Apr 1;16(7):1519–30

Slow viral replication of HSV-1 is responsible for early recurrence of herpetic keratitis after corneal grafting. Garweg J, et al. **Graefes Arch Clin Exp Ophthalmol** 1996 Aug;234 Suppl 1:S133–8

Long-term survival in a rodent model of disseminated brain tumors by combined intrathecal delivery of herpes vectors and ganciclovir treatment. Kramm CM, et al. **Hum Gene Ther** 1996 Oct 20;7(16):1989–94

Transcriptional activation of human immunodeficiency virus type 1 by herpesvirus infection: an in vivo footprinting study. Demarchi F, et al. **Intervirology** 1996;39(4):236–41

Antiviral efficacies of famciclovir, valaciclovir, and brivudin in disseminated herpes simplex virus type 1 infection in mice. Wutzler P, et al. **Intervirology** 1997;40(1):15–21

Structural requirement of heparan sulfate for interaction with herpes simplex virus type 1 virions and isolated glycoprotein C. Feyzi E, et al. **J Biol Chem** 1997 Oct 3; 272(40):24850–7

The 25 amino acid residues at the carboxy terminus of the herpes simplex virus type 1 UL26.5 protein are required for the formation of the capsid shell around the scaffold. Kennard J, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1611–21

Nitric oxide production induced by herpes simplex virus type 1 does not alter the course of the infection in human monocytic cells. López-Guerrero JA, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):1977–80

The abundance of the herpes simplex virus type 1 UL37 tegument protein in virus particles is closely controlled. McLauchlan J. **J Gen Virol** 1997 Jan;78 (Pt 1):189–94

Efficient herpes simplex virus type 1 (HSV-1) capsid formation directed by the varicella-zoster virus scaffolding protein requires the carboxy-terminal sequences from the HSV-1 homologue. Preston VG, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1633–46

Persistence of ribosomal protein synthesis after infection of HeLa cells by herpes simplex virus type 1. Simonin D, et al. **J Gen Virol** 1997 Feb;78 (Pt 2):435–43

Herpes simplex virus type 1 induces apoptosis in peripheral blood T lymphocytes. Ito M, et al. **J Infect Dis** 1997 May; 175(5):1220–4

Treatment of experimental subcutaneous human melanoma with a replication-restricted herpes simplex virus mutant. Randazzo BP, et al. **J Invest Dermatol** 1997 Jun; 108(6):933–7

Nerve growth factor antibody stimulates reactivation of ocular herpes simplex virus type 1 in latently infected rabbits. Hill JM, et al. **J Neurovirol** 1997 Jun;3(3):206–11

A herpes simplex virus type 1 mutant with a deletion immediately upstream of the LAT locus establishes latency and reactivates from latently infected mice with normal kinetics [see comments] Maggioncalda J, et al. **J Neurovirol** 1996 Aug;2(4):268–78. Comment in: J Neurovirol 1996 Aug;2(4):225–9.

Altered expression and changing distribution of the nerve growth associated protein GAP-43 during ocular HSV-1 infection in the rabbit. Martin RE, et al. **J Neurovirol** 1996 Apr;2(2):127–35

Repression of the HSV-1 latency-associated transcript (LAT) promoter by the early growth response (EGR) proteins: involvement of a binding site immediately downstream of the TATA box. Tatarowicz WA, et al. **J Neurovirol** 1997 Jun;3(3):212–24

A LAT-associated function reduces productive-cycle gene expression during acute infection of murine sensory neurons with herpes simplex virus type 1. Garber DA, et al. **J Virol** 1997 Aug;71(8):5885–93

In vivo epinephrine reactivation of ocular herpes simplex virus type 1 in the rabbit is correlated to a 370-base-pair region located between the promoter and the 5' end of the 2.0 kilobase latency-associated transcript. Hill JM, et al. **J Virol** 1996 Oct;70(10):7270–4

Herpes simplex virus type 1 glycoprotein K is not essential for infectious virus production in actively replicating cells but is required for efficient envelopment and translocation of infectious virions from the cytoplasm to the extracellular space. Jayachandra S, et al. **J Virol** 1997 Jul;71(7):5012–24

Herpes simplex virus 1 alpha regulatory protein ICP0 interacts with and stabilizes the cell cycle regulator cyclin D3. Kawaguchi Y, et al. **J Virol** 1997 Oct;71(10):7328–36

Suppression of apoptotic DNA fragmentation in herpes simplex virus type 1-infected cells. Koyama AH, et al. **J Virol** 1997 Mar;71(3):2567–71

Partial resistance to gD-mediated interference conferred by mutations affecting herpes simplex virus type 1 gC and gK. Pertel PE, et al. **J Virol** 1997 Oct;71(10):8024–8

Transcription of the derepressed open reading frame P of herpes simplex virus 1 precludes the expression of the antisense gamma(1)34.5 gene and may account for the attenuation of the mutant virus. Randall G, et al. **J Virol** 1997 Oct;71(10):7750–7

Characterization of a BHK(TK-) cell clone resistant to postattachment entry by herpes simplex virus types 1 and 2. Roller RJ, et al. **J Virol** 1997 Aug;71(8):5805–13

The herpes simplex virus type 1 latency-associated transcript gene regulates the establishment of latency. Thompson RL, et al. **J Virol** 1997 Jul;71(7):5432–40

The herpes simplex virus type 1 immediate-early protein ICP0 is necessary for the efficient establishment of latent infection. Wilcox CL, et al. **J Virol** 1997 Sep;71(9):6777–85

Susceptibility of cultured rabbit corneal epithelial cells to various herpes simplex virus isolates. Mori Y, et al. **Jpn J Ophthalmol** 1996;40(3):367–70

Expression of herpes simplex associated antigens in ocular tissues following induced herpetic anterior uveitis. Shirane M. **Jpn J Ophthalmol** 1996;40(4):491–501

Effects of nerve growth factor and phorbol derivative on reactivation of herpes simplex virus type 1 in cultured cells of latently infected adult mouse trigeminal ganglia. Kimura S. **Microbiol Immunol** 1996;40(9):645–50

Adrenocortical activation by herpes virus: involvement of IL-1 beta and central noradrenergic system. Ben Hur T, et al. **Neuroreport** 1996 Mar 22;7(4):927–31

Relationship of the strain and the intraocular amount of herpes simplex virus types 1 and 2 in the induction of anterior-chamber-associated immune deviation. Akiba M, et al. **Ophthalmic Res** 1996;28(5):289–95

An amphipathic alpha-helical synthetic peptide analogue of

melittin inhibits herpes simplex virus-1 (HSV-1)-induced cell fusion and virus spread. Baghian A, et al. **Peptides** 1997;18(2):177-83

Inhibitory activity of soyasaponin II on virus replication in vitro. Hayashi K, et al. **Planta Med** 1997 Apr;63(2):102-5

The herpes simplex virus 1 protein kinase US3 is required for protection from apoptosis induced by the virus. Leopardi R, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):7891-6

Treatment of spontaneously arising retinoblastoma tumors in transgenic mice with an attenuated herpes simplex virus mutant. Brandt CR, et al. **Virology** 1997 Mar 3; 229(1):283-91

The herpes simplex virus type 1 UL6 protein is essential for cleavage and packaging but not for genomic inversion. Lamberti C, et al. **Virology** 1996 Dec 15;226(2):403-7

Correlation between herpes simplex virus type 1 rate of reactivation from latent infection and the number of infected neurons in trigeminal ganglia. Maggioncalda J, et al. **Virology** 1996 Nov 1;225(1):72-81

Characterization of regulatory functions of the HSV-1 immediate-early protein ICP22. Prod'hon C, et al. **Virology** 1996 Dec 15;226(2):393-402

Identification of the fusion-from-without determinants of herpes simplex virus type 1 glycoprotein B. Saharkhiz-Langroodi A, et al. **Virology** 1997 Jan 6; 227(1):153-9

Differential regulation of the HIV-1 LTR by specific NF-kappa B subunits in HSV-1-infected cells. Schafer SL, et al. **Virology** 1996 Oct 1;224(1):214-23

The virion host shutoff function of herpes simplex virus type 1 plays a role in corneal invasion and functions independently of the cell cycle. Strelow L, et al. **Virology** 1997 Apr 28;231(1):28-34

Infection and replication of herpes simplex virus type 1 in an organotypic epithelial culture system. Visalli RJ, et al. **Virology** 1997 Apr 14;230(2):236-43

ULTRASTRUCTURE

Purification of herpes simplex virus type 1 by density gradient centrifugation and estimation of the sedimentation coefficient of the virion. Sathananthan B, et al. **APMIS** 1997 Mar;105(3):238-46

High-resolution immuno-scanning electron microscopy using a non-coating method: study of herpes simplex virus glycoproteins on the surface of virus particles and infected cells. Padilla JA, et al. **J Electron Microsc (Tokyo)** 1997; 46(2):171-80

Assembly of the herpes simplex virus capsid: characterization of intermediates observed during cell-free capsid formation. Newcomb WW, et al. **J Mol Biol** 1996 Nov 1;263(3):432-46

The herpes simplex virus procapsid: structure, conformational changes upon maturation, and roles of the triplex proteins VP19c and VP23 in assembly. Trus BL, et al. **J Mol Biol** 1996 Nov 1;263(3):447-62

Structure of the herpes simplex virus capsid: peptide A862-H880 of the major capsid protein is displayed on the rim of the capsomer protrusions. Spencer JV, et al. **Virology** 1997 Feb 17;228(2):229-35

HERPESVIRUS 2, HUMAN

Herpetic croup: two case reports and a review of the literature. Mancao MY, et al. **Acta Paediatr** 1996 Jan; 85(1):118-20 (9 ref.)

Twenty years' delay of fellow eye involvement in herpes simplex virus type 2-associated bilateral acute retinal necrosis syndrome. Schlingemann RO, et al. **Am J Ophthalmol** 1996 Dec;122(6):891-2

Pleural effusion due to herpes simplex type II infection in an immunocompromised host. Trudo FJ, et al. **Am J Respir Crit Care Med** 1997 Jan;155(1):371-3

Presence of herpes simplex DNA in surgical tissue from human epileptic seizure foci detected by polymerase chain reaction: preliminary study. Sanders VJ, et al. **Arch Neurol** 1997 Aug;54(8):954-60

Vaginal formulations of carrageenan protect mice from herpes simplex virus infection. Zacharopoulos VR, et al. **Clin Diagn Lab Immunol** 1997 Jul;4(4):465-8

Inoculation herpes simplex virus infections in patients with AIDS: unusual appearance and location of lesions. Weaver G, et al. **Clin Infect Dis** 1996 Jan;22(1):141-2

Hand trauma and herpes infection. Starley IF, et al. **J Hand Surg [Br]** 1996 Oct;21(5):681-2

Recurring episodes of meningitis (Mollaret's meningitis) with one showing an association with herpes simplex virus type 2. Bachmeyer C, et al. **J Infect** 1996 May;32(3):247-8

Disseminated herpes simplex virus infection presenting as fever in the newborn--a lethal outcome. Jain R, et al. **J Infect** 1996 May;32(3):239-41

Apoptosis induced in the spinal cord and dorsal root ganglion by infection of herpes simplex virus type 2 in the mouse. Ozaki N, et al. **Neurosci Lett** 1997 Jun 6;228(2):99-102

Herpes simplex virus infections. Annunziato PW, et al. **Pediatr Rev** 1996 Dec;17(12):415-23; quiz 424 (11 ref.)

Genital herpes simplex virus infection in females in Ibadan Nigeria. Oni AA, et al. **West Afr J Med** 1996 Apr-Jun; 15(2):107-10

[An autopsied case doubly infected by mucor mycelia and herpes simplex virus-2 in the remission state after bone marrow transplantation for acute myelogenous leukemia] Muramori F, et al. **No To Shinkei** 1997 May;49(5):449-53 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Disulfide bonds of herpes simplex virus type 2 glycoprotein gB. Norais N, et al. **J Virol** 1996 Nov;70(11):7379-87

CLASSIFICATION

Clear detection and typing of herpes simplex virus types 1 and 2 by an indirect ELISA assay: comparison with three different combined methods--capture ELISA, restriction enzymes, and polymerase chain reaction. Markoulatos P, et al. **J Clin Lab Anal** 1997;11(3):146-53

DRUG EFFECTS

SCH 43478 and analogs: in vitro activity and in vivo efficacy of novel agents for herpesvirus type 2. Albin R, et al. **Antiviral Res** 1997 Aug;35(3):139-46

Efficacy of Cafon gel on cutaneous infection with herpes simplex virus (HSV)-2 and acyclovir-resistant HSV in mice. Yoshida Y, et al. **J Dermatol Sci** 1996 Dec; 13(3):237-41

Evaluation of antiherpetic compounds using a gastric cancer cell line: pronounced activity of BVDU against herpes simplex virus replication. Kodama E, et al. **Microbiol Immunol** 1996;40(5):359-63

Administration of oral acyclovir suppressive therapy after neonatal herpes simplex virus disease limited to the skin, eyes and mouth: results of a phase I/II trial. Kimberlin D, et al. **Pediatr Infect Dis J** 1996 Mar;15(3):247-54

Influence of mercuric chloride on resistance to generalized infection with herpes simplex virus type 2 in mice. Christensen MM, et al. **Toxicology** 1996 Nov 15; 114(1):57-66

ENZYMOLOGY

Production of the R2 subunit of ribonucleotide reductase from herpes simplex virus with prokaryotic and eukaryotic expression systems: higher activity of R2 produced by eukaryotic cells related to higher iron-binding capacity. Lamarche N, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):129-35

GENETICS

Clinicopathologic correlations in acute retinal necrosis caused by herpes simplex virus type 2. Rahhal FM, et al. **Arch Ophthalmol** 1996 Nov;114(11):1416-9

Detection of a transforming fragment of herpes simplex virus type 2 in clinical specimens by PCR. The Canadian Women's HIV Study Group. Guibinga GH, et al. **J Clin Microbiol** 1996 Jul;34(7):1654-9

Evaluation of a quantitative competitive PCR assay for measuring herpes simplex virus DNA content in genital tract secretions. Hobson A, et al. **J Clin Microbiol** 1997 Mar;35(3):548-52

Nucleotide sequence of the herpes simplex virus type 2 gene encoding the protease and capsid protein ICP35. Steffy KR, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):1069-72

Lack of detection of HSV DNA in PBMCs and lymph nodes of HIV-infected persons. Corey L, et al. **J Med Virol** 1996 Jan;48(1):47

Selection of a nonconsensus branch point is influenced by an RNA stem-loop structure and is important to confer stability to the herpes simplex virus 2-kilobase latency-associated transcript. Krummenacher C, et al. **J Virol** 1997 Aug;71(8):5849-60

The prophylactic effect of immunization with DNA encoding herpes simplex virus glycoproteins on HSV-induced disease in guinea pigs. McClements WL, et al. **Vaccine** 1997 Jun;15(8):857-60

Construction and characterization of a replication-defective herpes simplex virus 2 ICP8 mutant strain and its use in immunization studies in a guinea pig model of genital disease. Da Costa XJ, et al. **Virology** 1997 May 26; 232(1):1-12

AP-1 cis-response elements are involved in basal expression and Vmw110 transactivation of the large subunit of herpes simplex virus type 2 ribonucleotide reductase (ICP10). Zhu J, et al. **Virology** 1997 May 12;231(2):301-12

Enhancement of HSV-DNA infectivity, in Vero and RS cells, by a modified calcium-phosphate transfection technique. Tognon M, et al. **Virus Genes** 1996;12(2):193-7

GROWTH & DEVELOPMENT

In vitro study of a double infection by herpes simplex virus type 2 and Chlamydia trachomatis. Chiarini F, et al. **New Microbiol** 1996 Jul;19(3):263-6

A short-term plaque assay for antiviral drug research on herpes simplex virus type 2. Muratore O, et al. **New Microbiol** 1996 Jul;19(3):257-61

IMMUNOLOGY

Herpes virus-specific immune responses in individuals experiencing recurrent genital herpes. Boswell CM, et al. **Biochem Soc Trans** 1997 May;25(2):278S

Orally administered HSV-specific transfer factor (TF) prevents genital or labial herpes relapses. Pizza G, et al. **Biotherapy** 1996;9(1-3):67-72

Seroprevalence of herpes simplex virus types 1 and 2 and cytomegalovirus in adolescents. Rosenthal SL, et al. **Clin Infect Dis** 1997 Feb;24(2):135-9

Seroepidemiology and control of genital herpes: the value of type specific antibodies to herpes simplex virus. Slomka MJ. **Commun Dis Rep CDR Rev** 1996 Mar 1;6(3):R41-5 (35 ref.)

Preferential presentation of herpes simplex virus T-cell antigen by HLA DQA1*0501/DQB1*0201 in comparison to HLA DQA1*0201/DQB1*0201. Koelle DM, et al. **Hum Immunol** 1997 Apr 1;53(2):195-205

Antigenic differences between HSV-1 and HSV-2 glycoproteins and their importance for type-specific serology. Bergström T, et al. **Intervirology** 1996; 39(3):176-84 (79 ref.)

Escherichia coli expressed herpes simplex virus gG1 and gG2 proteins in ELISA and immunoblotting assays. Kakkanas A, et al. **Intervirology** 1995;38(6):346-51

Cognitive-behavioral stress management decreases dysphoric mood and herpes simplex virus-type 2 antibody titers in symptomatic HIV-seropositive gay men. Lutgendorf SK, et al. **J Consult Clin Psychol** 1997 Feb;65(1):31-43

A genetically inactivated herpes simplex virus type 2 (HSV-2) vaccine provides effective protection against primary and recurrent HSV-2 disease. Boursnell ME, et al. **J Infect Dis** 1997 Jan;175(1):16-25

T cell recognition and cytokine production elicited by common and type-specific glycoproteins of herpes simplex virus type 1 and type 2. Carmack MA, et al. **J Infect Dis** 1996 Nov;174(5):899-906

Genetic immunization with adeno-associated virus vectors expressing herpes simplex virus type 2 glycoproteins B and D. Manning WC, et al. **J Virol** 1997 Oct;71(10):7960-2

Antigenic structure of soluble herpes simplex virus (HSV) glycoprotein D correlates with inhibition of HSV infection. Nicola AV, et al. **J Virol** 1997 Apr;71(4):2940-6

High frequency of CD8+ cytotoxic T-lymphocyte precursors specific for herpes simplex viruses in persons with genital herpes. Posavad CM, et al. **J Virol** 1996 Nov; 70(11):8165-8

Herpes simplex virus-specific IgM, IgA and IgG subclass antibody responses in primary and nonprimary genital herpes patients. Hashido M, et al. **Microbiol Immunol** 1997; 41(5):415-20

Herpes simplex virus type 2--a persistent problem [editorial; comment] Arvin AM, et al. **N Engl J Med** 1997 Oct 16; 337(16):1158-9. Comment on: N Engl J Med 1997 Oct 16;337(16):1105-11.

The acquisition of herpes simplex virus during pregnancy. Brown ZA, et al. **N Engl J Med** 1997 Aug 21;337(8):509-15

Herpes simplex virus type 2 in the United States, 1976 to 1994 [see comments] Fleming DT, et al. **N Engl J Med** 1997 Oct 16;337(16):1105-11. Comment in: N Engl J Med 1997 Oct 16;337(16):1158-9.

Seroprevalence of herpes simplex virus type 2 antibodies in New Zealand sexual health clinic patients. Perkins NL, et al. **N Z Med J** 1996 Oct 25;109(1032):402-5

Immunization with DNA vaccines encoding glycoprotein D or glycoprotein B, alone or in combination, induces protective immunity in animal models of herpes simplex virus-2 disease. McClements WL, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11414-20

Severe genital herpes infections in HIV-infected individuals with impaired herpes simplex virus-specific CD8+ cytotoxic T lymphocyte responses. Posavad CM, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10289-94

DNA immunization confers protective immunity on mice challenged intravaginally with herpes simplex virus type 2. Bourne N, et al. **Vaccine** 1996 Sep;14(13):1230-4

Effects of the estrous cycle on local humoral immune responses and protection of intranasally immunized female mice against herpes simplex virus type 2 infection in the genital tract. Gallichan WS, et al. **Virology** 1996 Oct 15; 224(2):487-97

Topically applied human recombinant monoclonal IgG1 antibody and its Fab and F(ab')2 fragments protect mice from vaginal transmission of HSV-2. Zeitlin L, et al. **Virology** 1996 Nov 1;225(1):213-5

ISOLATION & PURIFICATION

Herpes simplex virus type 2 detection by culture and polymerase chain reaction and relationship to genital symptoms and cervical antibody status during the third trimester of pregnancy. Boggess KA, et al. **Am J Obstet Gynecol** 1997 Feb;176(2):443-51

Ex vivo protocol for testing virus survival on human skin: experiments with herpesvirus 2. Graham ML, et al. **Appl Environ Microbiol** 1996 Nov;62(11):4252-5

Replication of herpes simplex virus type 1 and 2 in the medulla of the adrenal gland after vaginal infection of mice. Podlech J, et al. **Arch Virol** 1996;141(10):1999-2008

Evaluation of a non-isotopic polymerase chain reaction assay for detection in clinical specimens of herpes simplex virus type 2 DNA. Canadian Women's HIV Study Group. Tremblay C, et al. **Clin Diagn Virol** 1997 May;8(1):53-62

Inoculation herpes simplex virus infections in patients with AIDS: unusual appearance and location of lesions. Weaver G, et al. **Clin Infect Dis** 1996 Jan;22(1):141-2

Recurrent meningitis and encephalitis associated with herpes simplex type 2: demonstration by polymerase chain reaction. Monteyne P, et al. **Eur Neurol** 1996;36(3):176-7

Relationship of sexual mixing across age and ethnic groups to herpes simplex virus-2 among unmarried heterosexual

adults with multiple sexual partners. Catania JA, et al. **Health Psychol** 1996 Sep;15(5):362–70

Herpes simplex virus type 2 in Brazil: seroepidemiologic survey. Da Rosa-Santos OL, et al. **Int J Dermatol** 1996 Nov;35(11):794–6

Frequent genital herpes simplex virus 2 shedding in immunocompetent women. Effect of acyclovir treatment. Wald A, et al. **J Clin Invest** 1997 Mar 1;99(5):1092–7

Evaluation of a quantitative competitive PCR assay for measuring herpes simplex virus DNA content in genital tract secretions. Hobson A, et al. **J Clin Microbiol** 1997 Mar;35(3):548–52

Localization of latency-associated transcripts in the uterovaginal plexus of herpes simplex virus type 1 and 2 latently infected mice. Podlech J, et al. **J Gen Virol** 1997 May;78 (Pt 5):1103–8

Evaluation of a new general primer pair for rapid detection and differentiation of HSV-1, HSV-2, and VZV by polymerase chain reaction. Baron JM, et al. **J Med Virol** 1996 Aug;49(4):279–82

Suitability and clinical application of a multiplex nested PCR assay for the diagnosis of herpes simplex virus infections. Cassinotti P, et al. **J Med Virol** 1996 Sep;50(1):75–81

HSV-1 and HSV-2 in herpes simplex encephalitis: a study of sixty-four cases in the United Kingdom. Dennett C, et al. **J Med Virol** 1997 Sep;53(1):1–3

Detection of herpes simplex virus DNA in cerebrospinal fluid samples using the polymerase chain reaction and microplate hybridization. Vesanen M, et al. **J Virol Methods** 1996 May; 59(1–2):1–11

Placental examination in intrauterine coinfection with herpes simplex virus and cytomegalovirus. Mühlemann K, et al. **Pediatr Pathol Lab Med** 1996 Nov-Dec;16(6):935–9

Herpes simplex virus and pregnancy. Forsgren M, et al. **Scand J Infect Dis Suppl** 1996;100:14–9

Interferon-gamma enhances resolution of herpes simplex virus type 2 infection of the murine genital tract. Milligan GN, et al. **Virology** 1997 Mar 3;229(1):259–68

[Retrospective study of cervical papillomavirus lesions: early Herpes simplex virus proteins as markers of risk for progression] Balbi C, et al. **Minerva Ginecol** 1996 May; 48(5):175–9 (Eng. Abstr.) **(Ita)**

METABOLISM

Dextran sulfate can act as an artificial receptor to mediate a type-specific herpes simplex virus infection via glycoprotein B. Dyer AP, et al. **J Virol** 1997 Jan; 71(1):191–8

Inhibition of human immunodeficiency virus replication by the herpes simplex virus virion host shutoff protein. Hamouda T, et al. **J Virol** 1997 Jul;71(7):5521–7

Herpes simplex virus type 2 inhibition of Fas ligand expression. Sieg S, et al. **J Virol** 1996 Dec;70(12):8747–51

Specificity and affinity of binding of herpes simplex virus type 2 glycoprotein B to glycosaminoglycans. Williams RK, et al. **J Virol** 1997 Feb;71(2):1375–80

PATHOGENICITY

Coinfection of the central nervous system by cytomegalovirus and herpes simplex virus type 1 or 2 in AIDS patients: autopsy study on 82 cases by immunohistochemistry and polymerase chain reaction. Vago L, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):404–8

Genital herpes infection: a review. Brugha R, et al. **Int J Epidemiol** 1997 Aug;26(4):698–709 (127 ref.)

Effect of herpes simplex virus on the DNA of human papillomavirus 18. Hara Y, et al. **J Med Virol** 1997 Sep; 53(1):4–12

[The effect of Opisthorchis on the manifestations of herpesvirus type 2 in an experiment and their possible participation in the mechanism of the occurrence of primary liver cancer] Ivanskikh VI, et al. **Med Parazitol (Mosk)** 1996 Apr-Jun;(2):23–6 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Effect of IL-4 and IL-13 on IFN-gamma-induced production of nitric oxide in mouse macrophages infected with herpes simplex virus type 2. Paludan SR, et al. **FEBS Lett** 1997 Sep 1;414(1):61–4

Immunotherapy with low-dose interleukin-2 and interferon-gamma in a murine tumor model. Mao XW, et al. **J Interferon Cytokine Res** 1995 Dec;15(12):1017–27

Neuronal sprouting in mouse sensory ganglia infected with herpes simplex virus type 2 (HSV-2): induction of growth-associated protein (GAP-43) and ultrastructural evidence [see comments] Henken DB, et al. **J Neurovirol** 1995 Jun;1(2):157–64. Comment in: J Neurovirol 1995 Jun;1(2):135–7.

Characterization of a BHK(TK-) cell clone resistant to postattachment entry by herpes simplex virus types 1 and 2. Roller RJ, et al. **J Virol** 1997 Aug;71(8):5805–13

Mutations in the 5' end of the herpes simplex virus type 2 latency-associated transcript (LAT) promoter affect LAT expression in vivo but not the rate of spontaneous reactivation of genital herpes. Wang K, et al. **J Virol** 1997 Oct;71(10):7903–10

Relationship of the strain and the intraocular amount of herpes simplex virus types 1 and 2 in the induction of anterior-chamber-associated immune deviation. Akiba M, et al. **Ophthalmic Res** 1996;28(5):289–95

The large subunit of herpes simplex virus type 2 ribonucleotide reductase (ICP10) is associated with the virion tegument and has PK activity. Smith CC, et al. **Virology** 1997 Aug 4;234(2):235–42

HERPESVIRUS 3, HUMAN

A case of varicella-zoster myelopathy. Aizawa H, et al. **Acta Neurol Scand** 1996 Jun;93(6):470–2

Case report: varicella-zoster virus myelitis--serial MR findings. Hirai T, et al. **Br J Radiol** 1996 Dec; 69(828):1187–90

Rapidly progressive outer retinal necrosis caused by varicella zoster virus in a patient infected with human immunodeficiency virus. Galindez OA, et al. **Clin Infect Dis** 1996 Jan;22(1):149–51

Myelitis due to varicella-zoster virus in two patients with AIDS: successful treatment with acyclovir. Lionnet F, et al. **Clin Infect Dis** 1996 Jan;22(1):138–40

The patterns of varicella zoster virus encephalitis. Kleinschmidt-DeMasters BK, et al. **Hum Pathol** 1996 Sep; 27(9):927–38

Prevention and control of varicella-zoster infections in healthcare facilities. Weber DJ, et al. **Infect Control Hosp Epidemiol** 1996 Oct;17(10):694–705 (104 ref.)

Oral acyclovir therapy for varicella in pregnancy. Mutalik S, et al. **Int J Dermatol** 1997 Jan;36(1):49–51

Conversion of the CD4+ T cell profile from T(H2)-dominant type to T(H1)-dominant type after varicella-zoster virus infection in atopic dermatitis. Fujimura T, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):274–82

Multiple dose netivudine, a potent anti-varicella zoster virus agent, in healthy elderly volunteers and patients with shingles. Peck RW, et al. **J Antimicrob Chemother** 1996 Mar;37(3):583–97

Herpetic syringitis associated with eccrine squamous syringometaplasia in HIV-positive patients. Muñoz E, et al. **J Cutan Pathol** 1997 Aug;24(7):425–8

Delayed-onset hemidystonia secondary to herpes zoster ophthalmicus-related intracerebral arteritis in an adolescent [letter] Burbaud P, et al. **J Neurol** 1997 Jul;244(7):470–2

Toddler-to-mother transmission of varicella-vaccine virus: how bad is that? [editorial; comment] Long SS. **J Pediatr** 1997 Jul;131(1 Pt 1):10–2. Comment on: J Pediatr 1997 Jul;131(1 Pt 1):151–4. Comment on: J Pediatr 1997 Jul;131(1 Pt 1):162–3.

Transmission of varicella-vaccine virus from a healthy 12-month-old child to his pregnant mother [see comments] Salzman MB, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):151–4 . Comment in: J Pediatr 1997 Jul;131(1 Pt 1):10–2.

A simian varicella virus (SVV) homolog to varicella-zoster virus gene 21 is expressed in monkey ganglia latently infected with SVV. Clarke P, et al. **J Virol** 1996 Aug; 70(8):5711–5

Varicella-zoster virus DNA in CSF and arteries in delayed contralateral hemiplegia: evidence for viral invasion of cerebral arteries. Melanson M, et al. **Neurology** 1996 Aug; 47(2):569–70

Varicella zoster in a transplant program: experience with 15 cases and 70 contacts. Zayas E, et al. **Transplant Proc** 1996 Dec;28(6):3296–7

[Varicella zoster virus vaccine--a review] Petersen CS, et al. **Ugeskr Laeger** 1997 Feb 17;159(8):1081–5 (40 ref.) (Eng. Abstr.) **(Dan)**

[Think of varicella pneumopathy in an immunocompromised patient] Ledru S, et al. **Ann Biol Clin (Paris)** 1997 Mar-Apr; 55(2):147–8 **(Fre)**

[Diagnosis of infections caused by varicella zoster virus (letter)] Barraquer P, et al. **Enferm Infecc Microbiol Clin** 1996 Apr;14(4):277–8 **(Spa)**

CLASSIFICATION

Genome differences among varicella-zoster viruses isolated in Thailand. Thawaranantha D, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):677–83

DRUG EFFECTS

Structure-activity relationship of the affinity of 5-substituted uracil nucleoside analogues for varicella-zoster virus thymidine kinase and their activity against varicella-zoster virus. Ashida N, et al. **Antiviral Res** 1997 Aug;35(3):167–75

[The course for a successor for acyclovir] Ramos JM, et al. **Rev Clin Esp** 1996 Nov;196(11):761–5 (66 ref.) **(Spa)**

ENZYMOLOGY

Potential of Varicella zoster virus thymidine kinase as a suicide gene in breast cancer cells. Grignet-Debrus C, et al. **Gene Ther** 1997 Jun;4(6):560–9

Characterization of the proteinase specified by varicella-zoster virus gene 33. McMillan DJ, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2153–7

Crystal structure of varicella-zoster virus protease. Qiu X, et al. **Proc Natl Acad Sci U S A** 1997 Apr 1;94(7):2874–9

[Virus propagation and proteases: with special emphasis on the newly discovered serine protease in human herpes virus] Maeda H. **Tanpakushitsu Kakusan Koso** 1997 May; 42(6):875–9 (25 ref.) **(Jpn)**

GENETICS

Histopathological findings, viral DNA distribution and lymphocytic immunophenotypes in vesicular and papular types of herpes zoster. Yi JY, et al. **Acta Derm Venereol** 1997 May;77(3):194–7

The use of polymerase chain reaction techniques to detect varicella-zoster virus in corneal transplant tissue [editorial; comment] Liesegang TJ. **Arch Ophthalmol** 1997 May; 115(5):664–5. Comment on: Arch Ophthalmol 1997 May;115(5):590–4.

Detection of varicella-zoster virus DNA in keratectomy specimens by use of the polymerase chain reaction [see comments] Mietz H, et al. **Arch Ophthalmol** 1997 May; 115(5):590–4. Comment in: Arch Ophthalmol 1997 May;115(5):664–5.

Post-partum detection of varicella-zoster virus DNA in the placenta. Kawana K, et al. **Int J Gynaecol Obstet** 1996 Nov;55(2):165–6

Application of long PCR method of identification of variations in nucleotide sequences among varicella-zoster virus isolates. Takayama M, et al. **J Clin Microbiol** 1996 Dec;34(12):2869–74

Analysis of United Kingdom wild-type strains of varicella-zoster virus: differentiation from the Oka vaccine strain. Hawrami K, et al. **J Med Virol** 1997 Sep;53(1):60–2

Enhancement of varicella-zoster virus infection in cell lines expressing ORF4- or ORF62-encoded proteins. Schoonbroodt S, et al. **J Med Virol** 1996 Aug;49(4):264–73

Persistence of varicella-zoster virus DNA in elderly patients with postherpetic neuralgia. Mahalingam R, et al. **J Neurovirol** 1995 Mar;1(1):130–3

Varicella-zoster virus open reading frame 4 encodes an immediate-early protein with posttranscriptional regulatory properties. Defechereux P, et al. **J Virol** 1997 Sep;71(9):7073–9

Multiple regulatory effects of varicella-zoster virus (VZV) gL on trafficking patterns and fusogenic properties of VZV gH. Duus KM, et al. **J Virol** 1996 Dec;70(12):8961–71

Chaperone functions common to nonhomologous Epstein-Barr virus gL and Varicella-Zoster virus gL proteins. Li Q, et al. **J Virol** 1997 Feb;71(2):1667–70

Molecular temporal bone pathology: II. Ramsay Hunt syndrome (herpes zoster oticus). Wackym PA. **Laryngoscope** 1997 Sep;107(9):1165–75

Latency and reactivation of varicella zoster virus infections. Dueland AN. **Scand J Infect Dis Suppl** 1996;100:46–50 (34 ref.)

Genome differences among varicella-zoster viruses isolated in Thailand. Thawaranantha D, et al. **Southeast Asian J Trop Med Public Health** 1995 Dec; 26(4):677–83

Disruption of the varicella-zoster virus dUTPase and the adjacent ORF9A gene results in impaired growth and reduced syncytia formation in vitro. Ross J, et al. **Virology** 1997 Aug 4;234(2):186–95

The inverted repeat regions of the simian varicella virus and varicella-zoster virus genomes have a similar genetic organization. Gray WL, et al. **Virus Res** 1995 Dec; 39(2-3):181–93

GROWTH & DEVELOPMENT

Replacement of the herpes simplex virus type 1 Vmw175 DNA binding domain with its varicella-zoster virus counterpart results in a protein with novel regulatory properties that can support virus growth. Tyler JK, et al. **J Gen Virol** 1997 Jan;78 (Pt 1):179–88

Varicella-zoster virus glycoprotein I is essential for growth of virus in Vero cells. Cohen JI, et al. **J Virol** 1997 Sep; 71(9):6913–20

IMMUNOLOGY

Comparison of specific immunities to varicella-zoster virus following post-exposure prophylaxis of varicella by oral acyclovir observed in a family. Asano Y, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):692–4

A seroepidemiological study of Varicella-Zoster virus in Taipei City. Lin YJ, et al. **Acta Paediatr Sin** 1996 Jan-Feb; 37(1):11–5

Varicella-zoster virus: aspects of pathogenesis and host response to natural infection and varicella vaccine. Arvin AM, et al. **Adv Virus Res** 1996;46:263–309 (75 ref.)

Varicella vaccine is subject of new CDC guidelines [news] **Am J Health Syst Pharm** 1996 Nov 1;53(21):2558, 2563

Varicella vaccination of health care workers. Casto DT. **Am J Health Syst Pharm** 1996 Nov 1;53(21):2628–35

Varicella vaccine in immunocompromised patients. Cat LK, et al. **Ann Pharmacother** 1996 Feb;30(2):181–4 (16 ref.)

The synthesis and immunogenicity of varicella-zoster virus glycoprotein E and immediate-early protein (IE62) expressed in recombinant herpes simplex virus-1. Lowry PW, et al. **Antiviral Res** 1997 Feb;33(3):187–200

Characterization of neutralizing domains on varicella-zoster virus glycoprotein E defined by monoclonal antibodies. Wu L, et al. **Arch Virol** 1997;142(2):349–62

Prevalence of anti-varicella zoster IgG antibody in undergraduate students. Bhattarakosol P, et al. **Asian Pac J Allergy Immunol** 1996 Dec;14(2):129–31

Varicella zoster antibodies after herpes zoster, varicella and multiple sclerosis. Ross RT, et al. **Can J Neurol Sci** 1997 May;24(2):137–9

Inhibition of natural killer (NK) cell activity against

varicella-zoster virus (VZV)-infected fibroblasts and lymphocyte activation in response to VZV antigen by nitric oxide-releasing agents. Ito M, et al. **Clin Exp Immunol** 1996 Oct;106(1):40-4

Shortage of varicella zoster immunoglobulin prompts restriction on use. **Commun Dis Rep CDR Wkly** 1996 Dec 13;6(50):433

Comparison of the Vidas and Bio-Whittaker enzyme immunoassays for detecting IgG reactive with varicella-zoster virus and mumps virus. Doern GV, et al. **Diagn Microbiol Infect Dis** 1997 May;28(1):31-4

Abortive chickenpox [letter] Aksoy L, et al. **Eur J Pediatr** 1997 Mar;156(3):248

Human herpes viruses latent infection in the nervous system. Steiner I. **Immunol Rev** 1996 Aug;152:157-73 (110 ref.)

Immune responses to varicella-zoster virus. Arvin AM. **Infect Dis Clin North Am** 1996 Sep;10(3):529-70 (139 ref.)

Assays for antibodies to varicella-zoster virus. Krah DL. **Infect Dis Clin North Am** 1996 Sep;10(3):507-27 (111 ref.)

The varicella zoster virus: a pilot trial of a potential therapeutic agent in multiple sclerosis. Ross RT, et al. **J Clin Epidemiol** 1997 Jan;50(1):63-8

Recognition of the latency-associated immediate early protein IE63 of varicella-zoster virus by human memory T lymphocytes. Sadzot-Delvaux C, et al. **J Immunol** 1997 Sep 15;159(6):2802-6

Impaired specific cellular immunity to the varicella-zoster virus in patients with herpes zoster oticus. Ikeda M, et al. **J Laryngol Otol** 1996 Oct;110(10):918-21

Neutralizing antibody responses induced by varicella-zoster virus gE and gB glycoproteins following infection, reactivation or immunization. Haumont M, et al. **J Med Virol** 1997 Sep;53(1):63-8

Analysis of United Kingdom wild-type strains of varicella-zoster virus: differentiation from the Oka vaccine strain. Hawrami K, et al. **J Med Virol** 1997 Sep;53(1):60-2

Dual detection of antibody to both herpes simplex and varicella-zoster viruses in cerebrospinal fluid: cross reactivity or dual infection? [letter] Echevarría JM, et al. **J Neurol** 1996 Aug;243(8):618-9

Susceptibility to varicella zoster virus infection in health care workers. Gallagher J, et al. **Occup Med (Oxf)** 1996 Aug; 46(4):289-92

Herpes zoster sine herpete. A potential cause of iridoplegic granulomatous iridocyclitis. Schwab IR. **Ophthalmology** 1997 Sep;104(9):1421-5

Recurrent chickenpox after natural infection. Terada K, et al. **Pediatr Infect Dis J** 1996 Feb;15(2):179-81

Induction of neutralizing antibody and T-cell responses to varicella-zoster virus (VZV) using Ty-virus-like particles carrying fragments of glycoprotein E (gE). Garcia-Valcarcel M, et al. **Vaccine** 1997 Apr-May; 15(6-7):709-19

Varicella zoster virus-specific cytotoxicity following secondary immunization with live or killed vaccine. Hayward AR, et al. **Viral Immunol** 1996;9(4):241-5

[Varicella and primary achalasia of the lower esophageal sphincter (letter)] Metman EH, et al. **Gastroenterol Clin Biol** 1996;20(12):1138-9 **(Fre)**

ISOLATION & PURIFICATION

Distribution of human herpesvirus 6 and varicella-zoster virus in organs of a fatal case with exanthem subitum and varicella. Ueda T, et al. **Acta Paediatr Jpn** 1996 Dec; 38(6):590-5

AIDS-related varicella zoster meningoencephalitis and radicular pain without cutaneous eruption [letter] Débat Zoguéreh D, et al. **AIDS** 1996 Nov;10(13):1604-6

Herpes zoster in three healthy children immunized with varicella vaccine (Oka/Biken); the causative virus differed from vaccine strain on PCR analysis of the IV variable region (R5) and of a PstI-site region. Na GY. **Br J Dermatol** 1997 Aug;137(2):255-8

Routine detection of herpes simplex virus and varicella zoster virus by polymerase chain reaction reveals that initial herpes zoster is frequently misdiagnosed as herpes simplex. Rübben A, et al. **Br J Dermatol** 1997 Aug;137(2):259-61

In situ hybridization detection of varicella zoster virus in paraffin-embedded skin biopsy samples. Annunziato P, et al. **Clin Diagn Virol** 1996 Nov;7(2):69-76

Varicella-zoster virus is strongly associated with atypical necrotizing herpetic retinopathies. Garweg J, et al. **Clin Infect Dis** 1997 Apr;24(4):603-8

Antigen detection: the method of choice in comparison with virus isolation and serology for laboratory diagnosis of herpes zoster in human immunodeficiency virus-infected patients. Dahl H, et al. **J Clin Microbiol** 1997 Feb; 35(2):347-9

Application of long PCR method of identification of variations in nucleotide sequences among varicella-zoster virus isolates. Takayama M, et al. **J Clin Microbiol** 1996 Dec;34(12):2869-74

Evaluation of a new general primer pair for rapid detection and differentiation of HSV-1, HSV-2, and VZV by polymerase chain reaction. Baron JM, et al. **J Med Virol** 1996 Aug;49(4):279-82

Effect of acyclovir and prednisolone on the serological response in herpes zoster. Bates CJ, et al. **J Med Virol** 1996 Nov;50(3):244-8

Detection of both herpes simplex and varicella-zoster viruses in cerebrospinal fluid from patients with encephalitis. Casas I, et al. **J Med Virol** 1996 Sep;50(1):82-92

Detection of varicella-zoster virus DNA in patients with acute peripheral facial palsy by the polymerase chain reaction, and its use for early diagnosis of zoster sine herpete. Furuta Y, et al. **J Med Virol** 1997 Jul;52(3):316-9

Detection of latent varicella-zoster virus infection in human vestibular and spiral ganglia. Furuta Y, et al. **J Med Virol** 1997 Mar;51(3):214-6

Neurotropic viruses and Alzheimer's disease: a search for varicella zoster virus DNA by the polymerase chain reaction. Lin WR, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):586-9

Another case of virologically confirmed zoster sine herpete, with electrophysiologic correlation. Amlie-Lefond C, et al. **J Neurovirol** 1996 Apr;2(2):136-8

Search for herpesvirus DNA in cerebrospinal fluid of HIV patients with brain disorders: prevalence of cytomegalovirus DNA findings. Portolani M, et al. **J Neurovirol** 1997 Jun;3(3):192-6

Focus luminescence assay: macroscopically visualized foci of human cytomegalovirus and varicella zoster virus infection. Heider H, et al. **J Virol Methods** 1997 Jul; 66(2):311-6

Luminometric microplate hybridization for detection of varicella-zoster virus PCR product from cerebrospinal fluid. Koskiniemi M, et al. **J Virol Methods** 1997 Jan; 63(1-2):71-9

Varicella zoster virus, a cause of waxing and waning vasculitis: the New England Journal of Medicine case 5-1995 revisited. Gilden DH, et al. **Neurology** 1996 Dec; 47(6):1441-6

Detection of varicella-zoster virus in congenital varicella syndrome: a case report. Sauerbrei A, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 2):687-9

Repair of retinal detachments due to herpes varicella-zoster virus retinitis in patients with acquired immune deficiency syndrome. Weinberg DV, et al. **Ophthalmology** 1997 Feb; 104(2):279-82

Multiple recurrent branch retinal artery occlusions associated with varicella zoster virus. Zamora RL, et al. **Retina** 1996; 16(5):399-404

Polymerase chain reaction for diagnosis of varicella zoster virus central nervous system infections without skin manifestations. Bergström T. **Scand J Infect Dis Suppl** 1996; 100:41-5

[Syndrome of fetal varicella secondary to maternal varicella in the 26th week of gestation] Romero Sánchez J, et al. **An Esp Pediatr** 1997 Jan;46(1):77-8 **(Spa)**

[Myelitis associated with varicella-zoster virus in the absence of cutaneous zoster] Caminero AB, et al. **Rev Neurol** 1996 Dec;24(136):1532-5 (Eng. Abstr.) **(Spa)**

METABOLISM

Efficient herpes simplex virus type 1 (HSV-1) capsid formation directed by the varicella-zoster virus scaffolding protein requires the carboxy-terminal sequences from the HSV-1 homologue. Preston VG, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1633-46

Varicella-zoster virus Fc receptor gE glycoprotein: serine/threonine and tyrosine phosphorylation of monomeric and dimeric forms. Olson JK, et al. **J Virol** 1997 Jan;71(1):110-9

Targeting of glycoprotein I (gE) of varicella-zoster virus to the trans-Golgi network by an AYRV sequence and an acidic amino acid-rich patch in the cytosolic domain of the molecule. Zhu Z, et al. **J Virol** 1996 Oct; 70(10):6563-75

Varicella-zoster virus glycoproteins E and I expressed in insect cells form a heterodimer that requires the N-terminal domain of glycoprotein I. Kimura H, et al. **Virology** 1997 Jul 7;233(2):382-91

PATHOGENICITY

Varicella-zoster ventriculo-encephalitis and spinal cord infarction in a patient with AIDS. Kenyon LC, et al. **Acta Neuropathol (Berl)** 1996 Aug;92(2):202-5

Varicella-zoster virus. Arvin AM. **Clin Microbiol Rev** 1996 Jul;9(3):361-81 (269 ref.)

Bilateral hearing loss due to viral infection. Fuse T, et al. **ORL J Otorhinolaryngol Relat Spec** 1996 May-Jun; 58(3):175-7

Lessons to be learned from varicella-zoster virus. Rentier B, et al. **Vet Microbiol** 1996 Nov;53(1-2):55-66 (71 ref.)

PHYSIOLOGY

Do intact viral particles survive excimer laser ablation? Taravella MJ, et al. **Arch Ophthalmol** 1997 Aug; 115(8):1028-30

Varicella-zoster virus. The virus. Cohen JI. **Infect Dis Clin North Am** 1996 Sep;10(3):457-68 (63 ref.)

Detection of latent varicella-zoster virus infection in human vestibular and spiral ganglia. Furuta Y, et al. **J Med Virol** 1997 Mar;51(3):214-6

The varicella-zoster virus ORF66 protein induces kinase activity and is dispensable for viral replication. Heineman TC, et al. **J Virol** 1996 Oct;70(10):7312-7

Lessons to be learned from varicella-zoster virus. Rentier B, et al. **Vet Microbiol** 1996 Nov;53(1-2):55-66 (71 ref.)

Hair follicle involvement in herpes zoster [letter; comment] Nikkels AF, et al. **Virchows Arch** 1997 Jun;430(6):510-1. Comment on: Virchows Arch 1996 Jul;428(4-5):275-80.

HERPESVIRUS 4, HUMAN

see related
FATIGUE SYNDROME, CHRONIC

Gianotti-Crosti syndrome in an adult patient following a recently acquired Epstein-Barr virus infection [letter] Mempel M, et al. **Acta Derm Venereol** 1996 Nov; 76(6):502-3

Full presence of Epstein-Bar virus (EBV)-encoded latent proteins in tissues from a patient with severe chronic active EBV infection syndrome. Okano M, et al. **Acta Haematol** 1997;97(4):242-3

Dramatic efficacy of antithymocyte globulins in childhood EBV-associated haemophagocytic syndrome [letter] Perel Y, et al. **Acta Paediatr** 1997 Aug;86(8):911

Epstein-Barr virus infection, Hodgkin's disease, non-Hodgkin's lymphoma, and reactive follicular hyperplasia in Japanese children: evaluation of paraffin-embedded specimens using polymerase chain reaction and immunohistochemistry. Hiraiwa H, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):158-65

A case of Kabuki make-up syndrome with EBV + Burkitt's lymphoma. Ijichi O, et al. **Acta Paediatr Jpn** 1996 Feb; 38(1):66-8

Epstein-Barr virus infection in infants and their mothers [letter] Simon MW. **Am Fam Physician** 1997 Aug;56(2):380, 382

Absence of Epstein-Barr virus in lymphoepitheliomalike carcinoma of the skin. Polymerase chain reaction evidence and review of five cases. Gillum PS, et al. **Am J Dermatopathol** 1996 Oct;18(5):478-82

It's time to define "EBV-associated lymphomas" [letter; comment] Naresh KN. **Am J Hematol** 1997 Feb;54(2):175 . Comment on: Am J Hematol 1996 May;52(1):21-8.

Epstein-Barr virus-associated hemophagocytic syndrome and fatal infectious mononucleosis. Okano M, et al. **Am J Hematol** 1996 Oct;53(2):111-5 (38 ref.)

An indolent type of Epstein-Barr virus-associated T-cell-rich B-cell lymphoma of the skin: report of a case. Take H, et al. **Am J Hematol** 1996 Jul;52(3):221-3

EBV-associated anorectal lymphomas in patients with acquired immune deficiency syndrome. Ioachim HL, et al. **Am J Surg Pathol** 1997 Sep;21(9):997-1006 (56 ref.)

Epstein-Barr virus (EBV)-associated smooth-muscle tumor arising in a post-transplant patient treated successfully for two PT-EBV-associated large-cell lymphomas. Case report. Kingma DW, et al. **Am J Surg Pathol** 1996 Dec; 20(12):1511-9

Epidemiology of EBV and Hodgkin's lymphoma. Jarrett AF, et al. **Ann Oncol** 1996;7 Suppl 4:5-10 (52 ref.)

The role of Epstein-Barr virus in the pathogenesis of Hodgkin's disease. Niedobitek G. **Ann Oncol** 1996;7 Suppl 4:11-7 (67 ref.)

Discrepancy between clinical and pathological lymph node evaluation in Epstein-Barr virus-associated gastric cancers. Ojima H, et al. **Anticancer Res** 1996 Sep-Oct;16(5B):3081-4

Clinicopathologic manifestations of Epstein-Barr virus-associated cutaneous lymphoproliferative disorders [see comments] Iwatsuki K, et al. **Arch Dermatol** 1997 Sep; 133(9):1081-6. Comment in: Arch Dermatol 1997 Sep;133(9):1156-7.

Latent Epstein-Barr virus infection is frequently detected in subcutaneous lymphoma associated with hemophagocytosis but not in nonfatal cytophagic histiocytic panniculitis [letter; comment] Iwatsuki K, et al. **Arch Dermatol** 1997 Jun;133(6):787-8. Comment on: Arch Dermatol 1996 Nov;132(11):1345-50.

Epstein-Barr virus-associated lymphoproliferative disease during methotrexate therapy for psoriasis [see comments] Paul C, et al. **Arch Dermatol** 1997 Jul;133(7):867-71. Comment in: Arch Dermatol 1997 Jul;133(7):903-4.

Multiple myeloma in young patients [letter; comment] Kaplon MK, et al. **Arch Intern Med** 1997 Feb 10;157(3):361 . Comment on: Arch Intern Med 1996 Jul 8;156(13):1463-8.

Picture of the month. Facial nerve palsy secondary to Epstein-Barr virus infection. Wilson C, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):739-40

Surface expression of low density lipoprotein receptor in EBV-transformed lymphocytes: characterization and use for studying familial hypercholesterolemia. Chan P, et al. **Atherosclerosis** 1997 Jun;131(2):149-60

The association of the Epstein-Barr virus with malignant lymphoma. Chang KL, et al. **Biomed Pharmacother** 1996; 50(9):459-67 (113 ref.)

Establishment and characterization of a primary effusion (body cavity-based) lymphoma cell line (BC-3) harboring kaposi's sarcoma-associated herpesvirus (KSHV/HHV-8) in the absence of Epstein-Barr virus. Arvanitakis L, et al. **Blood** 1996 Oct 1;88(7):2648-54

Immunohistochemical detection of the Epstein-Barr virus-encoded latent membrane protein 2A in Hodgkin's disease and infectious mononucleosis. Niedobitek G, et al. **Blood** 1997 Aug 15;90(4):1664-72

Retinoids irreversibly inhibit in vitro growth of Epstein-Barr virus-immortalized B lymphocytes. Pomponi F, et al. **Blood** 1996 Oct 15;88(8):3147-59

Epstein-Barr virus lytic infection in lymphocytes and the persistence of the virus [letter] Tao Q. **Blood** 1997 Sep 1; 90(5):2114-6

Risk factors for developing EBV-related B cell lymphoproliferative disorders (BLPD) after non-HLA-identical BMT in children. Gerritsen EJ, et al.

Bone Marrow Transplant 1996 Aug;18(2):377–82
Lymphocytosis of donor origin in cerebrospinal fluid, and marrow aplasia after donor leukocyte infusion for EBV-lymphoproliferative disease. Gharpure V, et al. **Bone Marrow Transplant** 1996 Jul;18(1):221–4
Bone marrow transplantation for Epstein–Barr virus–related clonal T cell proliferation associated with hemophagocytosis [letter] Imashuku S, et al. **Bone Marrow Transplant** 1997 May;19(10):1059–60
Duration of Epstein–Barr virus (EBV)–associated polyclonal lymphoproliferative disease (LPD) following bone marrow transplantation [letter] Imashuku S, et al. **Bone Marrow Transplant** 1996 Oct;18(4):823–4
Unsuccessful CTL transfusion in a case of post-BMT Epstein–Barr virus–associated lymphoproliferative disorder (EBV-LPD). Imashuku S, et al. **Bone Marrow Transplant** 1997 Aug;20(4):337–40
Aggressive B-cell lymphoma induced by Epstein–Barr virus infection in erythrodermic cutaneous T-cell lymphoma. Kikuchi A, et al. **Br J Dermatol** 1997 Jan;136(1):124–8
Rapid proliferation of B cells from adenoids in response to Epstein–Barr virus infection. Zeidler R, et al. **Cancer Res** 1996 Dec 15;56(24):5610–4
Differential expression of nucleoskeleton- and cytoskeleton-associated proteins in Burkitt lymphoma–derived and Epstein–Barr virus–immortalized lymphoblastoid cell lines. Szekely L, et al. **Cell Growth Differ** 1997 May;8(5):599–609
Periodic illness associated with Epstein–Barr virus infection [see comments] Lekstrom-Himes JA, et al. **Clin Infect Dis** 1996 Jan;22(1):22–7. Comment in: Clin Infect Dis 1996 Jan;22(1):28–9.
Hodgkin's disease after cardiac transplant: a report of two cases. Hood IM, et al. **Clin Lab Haematol** 1996 Jun; 18(2):115–6
Epstein–Barr virus and AIDS-related primary central nervous system lymphoma. Viral detection by immunohistochemistry, RNA in situ hybridization, and polymerase chain reaction. Guterman KS, et al. **Clin Neuropathol** 1996 Mar-Apr;15(2):79–86
Epstein–Barr virus and its possible role in the pathogenesis of B-cell lymphomas. Oudejans JJ, et al. **Crit Rev Oncol Hematol** 1997 Feb;25(2):127–38 (133 ref.)
Exanthem associated with Epstein–Barr virus illness [letter] Simon MW. **Cutis** 1997 Jul;60(1):16
Viruses and idiopathic pulmonary fibrosis [editorial; comment] Egan JJ, et al. **Eur Respir J** 1997 Jul;10(7):1433–7 (47 ref.). Comment on: Eur Respir J 1997 Jul;10(7):1445–9.
A strategy for specific targeting of therapeutic agents to tumour cells of virus–associated cancers. Evans TJ, et al. **Gene Ther** 1997 Mar;4(3):264–7
Immunohistochemical expression of Bcl–2 oncoprotein in EBV–associated nasopharyngeal carcinoma correlated to histological type and survival. Vera–Sempere FJ, et al. **Histol Histopathol** 1997 Jan;12(1):9–18
Epstein–Barr virus in tumours. Anagnostopoulos I, et al. **Histopathology** 1996 Oct;29(4):297–315 (182 ref.)
Killing Epstein–Barr virus–positive B lymphocytes by gene therapy: comparing the efficacy of cytosine deaminase and herpes simplex virus thymidine kinase. Rogers RP, et al. **Hum Gene Ther** 1996 Dec 1;7(18):2235–45
Adoptive cell therapy with donor lymphocytes for EBV–associated lymphomas developing after allogeneic marrow transplants. O'Reilly RJ, et al. **Important Adv Oncol** 1996;:149–66 (172 ref.)
Association of the Epstein–Barr virus with Hodgkin's disease in Southern Israel. Benharroch D, et al. **Int J Cancer** 1997 Apr 10;71(2):138–41
Epstein–Barr virus–associated Hodgkin's disease: epidemiologic characteristics in international data. Glaser SL, et al. **Int J Cancer** 1997 Feb 7;70(4):375–82
Increased sensitivity of EBNA2–transformed rat fibroblasts to ionizing radiation. Shimakage M, et al. **Int J Cancer** 1996 Nov 27;68(5):612–5
EBV–associated Kikuchi's histiocytic necrotizing lymphadenitis with cutaneous manifestations. Yen A, et al. **J Am Acad Dermatol** 1997 Feb;36(2 Pt 2):342–6
Defective signaling through the B cell antigen receptor in Epstein–Barr virus–transformed ataxia–telangiectasia cells. Khanna KK, et al. **J Biol Chem** 1997 Apr 4;272(14):9489–95
Epstein–Barr virus in synergy with tumor–promoter–induced malignant transformation of immortalized human epithelial cells. Li BM, et al. **J Cancer Res Clin Oncol** 1997; 123(8):441–6
Phenotypic characteristics of Epstein–Barr–virus–associated gastric carcinomas. Moritani S, et al. **J Cancer Res Clin Oncol** 1996;122(12):750–6
Epstein–Barr virus–associated gastric carcinoma. Adachi Y, et al. **J Clin Gastroenterol** 1996 Oct;23(3):207–10 (24 ref.)
Non Hepatitis viruses in causation of acute sporadic non–A, non–B viral hepatitis. Prakash C, et al. **J Commun Dis** 1996 Sep;28(3):185–8
Case report. MRI findings of severe Epstein–Barr virus encephalomyelitis. Donovan WD, et al. **J Comput Assist Tomogr** 1996 Nov–Dec;20(6):1027–9 (8 ref.)
Progressive loss of CD8+ T cell–mediated control of a gamma–herpesvirus in the absence of CD4+ T cells. Cardin RD, et al. **J Exp Med** 1996 Sep 1;184(3):863–71
Epstein–Barr virus–associated post–transplant lympho–proliferative disease of donor origin in liver transplant recipients. Strazzabosco M, et al. **J Hepatol** 1997 Apr;26(4):926–34
Altered p53 expression in Epstein Barr virus positive T cell lymphomas. Lee JH, et al. **J Korean Med Sci** 1995 Dec; 10(6):399–405
Spontaneous retropharyngeal haematoma attributable to Epstein–Barr virus infection. Jones TM, et al. **J Laryngol Otol** 1996 Nov;110(11):1075–7
Loss of heterozygosity for chromosome 11 in Epstein–Barr–virus associated nasopharyngeal carcinoma. Mutirangura A, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S65–70
Issues related to development of Epstein–Barr virus vaccines. Spring SB, et al. **J Natl Cancer Inst** 1996 Oct 16; 88(20):1436–41 (66 ref.)
An unlikely link? Researchers probe viral role in breast cancer [news] Ziegler J. **J Natl Cancer Inst** 1997 May 7; 89(9):608–10
Epstein–Barr virus associated parotitis [letter] Lee AC, et al. **J Paediatr Child Health** 1997 Apr;33(2):177–8
Disappearance of the Epstein–Barr virus in a relapse of Hodgkin's disease. Delecluse HJ, et al. **J Pathol** 1997 Aug; 182(4):475–9
Epstein–Barr virus in Hodgkin's disease: more than just an innocent bystander [editorial] Oudejans JJ, et al. **J Pathol** 1997 Apr;181(4):353–6 (42 ref.)
Tissue distribution of Epstein–Barr virus genotypes. Chen HL, et al. **J Virol** 1996 Oct;70(10):7301–5
Infection of primary CD4+ and CD8+ T lymphocytes by Epstein–Barr virus enhances human immunodeficiency virus expression. Guan M, et al. **J Virol** 1996 Oct; 70(10):7341–6
Hypersensitivity to mosquito bites conceals clonal lymphoproliferation of Epstein–Barr viral DNA–positive natural killer cells. Ishihara S, et al. **Jpn J Cancer Res** 1997 Jan;88(1):82–7
Infectious mononucleosis and Hodgkin's disease--a similar seasonality. Douglas AS, et al. **Leuk Lymphoma** 1996 Oct; 23(3–4):323–31
Adoptive immunotherapy for Epstein–Barr virus–related lymphoma. Smith CA, et al. **Leuk Lymphoma** 1996 Oct; 23(3–4):213–20 (31 ref.)
Promotion of IL8, IL10, TNF alpha and TNF beta production by EBV infection. Klein SC, et al. **Leuk Res** 1996 Aug;20(8):633–6
High susceptibility of an Epstein–Barr virus–converted Burkitt's lymphoma cell line to cytotoxic drugs. Okano M. **Leuk Res** 1997 May;21(5):469–71
Breast milk is not a significant source for early Epstein–Barr virus or human herpesvirus 6 infection in infants: a seroepidemiologic study in 2 endemic areas of human T–cell lymphotropic virus type I in Japan. Kusuhara K, et al. **Microbiol Immunol** 1997;41(4):309–12
Identification of Epstein–Barr virus lytic activity in post–transplantation lymphoproliferative disease. Montone KT, et al. **Mod Pathol** 1996 Jun;9(6):621–30
Association of TRAF1, TRAF2, and TRAF3 with an Epstein–Barr virus LMP1 domain important for B–lymphocyte transformation: role in NF–kappaB activation. Devergne O, et al. **Mol Cell Biol** 1996 Dec; 16(12):7098–108
Epstein–Barr–virus–associated post–transplant B–cell lymphoma presenting as allograft artery stenosis. Hestin D, et al. **Nephrol Dial Transplant** 1996 Jun;11(6):1164–7
Guillain–Barré and virus–associated hemophagocytic syndromes contracted simultaneously following Epstein–Barr viral infection. Kaneko M, et al. **Neurology** 1997 Sep;49(3):870–1
Epstein–Barr virus encephalomyelitis diagnosed by polymerase chain reaction: detection of the genome in the CSF. Tselis A, et al. **Neurology** 1997 May;48(5):1351–5
Acute palsy of the recurrent laryngeal nerve complicating Epstein–Barr virus infection. Parano E, et al. **Neuropediatrics** 1996 Jun;27(3):164–6
High prevalence of a 30–base pair deletion and single–base mutations within the carboxy terminal end of the LMP–1 oncogene of Epstein–Barr virus in the Japanese population. Itakura O, et al. **Oncogene** 1996 Oct 3;13(7):1549–53
Prevalence of Epstein–Barr virus in oral squamous cell carcinomas, premalignant lesions and normal mucosa--a study using the polymerase chain reaction. Cruz I, et al. **Oral Oncol** 1997 May;33(3):182–8
No Epstein Barr and cytomegalovirus DNA found in salivary gland tumours. Kärjä V, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 Mar–Apr; 59(2):97–9
Epstein–Barr virus–induced human B–cell lymphoma arising in HuPBL–SCID chimeric mice: characterization and the role of CD40 stimulation in their treatment and prevention. Funakoshi S, et al. **Pathobiology** 1995;63(3):133–42
Morphological characteristics of Epstein–Barr virus–related early gastric carcinoma: a case–control study. Arikawa J, et al. **Pathol Int** 1997 Jun;47(6):360–7
Angioimmunoblastic T–cell lymphoma (angioimmunoblastic lymphadenopathy with dysproteinemia [AILD]–type T–cell lymphoma) followed by Hodgkin's disease associated with Epstein–Barr virus. Nakamura S, et al. **Pathol Int** 1995 Dec;45(12):958–64
Epstein–Barr virus (EBV)–induced CD30+ natural killer cell–type malignancy resembling malignant histiocytosis: malignant transformation in chronic active EBV infection associating hypogammaglobulinemia. Tsutsumi Y, et al. **Pathol Int** 1997 Jun;47(6):384–92
Morphologic differences between latent membrane protein–1 (LMP–1)–positive and negative tumour cells in Epstein–Barr virus (EBV)–related childhood Hodgkin's disease. A morphometric study. Panayiotides J, et al. **Pathol Res Pract** 1996 Mar;192(3):210–4
Gianotti–Crosti syndrome associated with Epstein–Barr virus infection. Hofmann B, et al. **Pediatr Dermatol** 1997 Jul–Aug;14(4):273–7
Epstein–Barr virus encephalitis and neurologic sequelae [letter; comment] Joncas JH. **Pediatr Infect Dis J** 1997 Mar; 16(3):336–7. Comment on: Pediatr Infect Dis J 1996 Oct;15(10):871–5.
Nephrotic syndrome associated with an Epstein–Barr virus infection. Blowey DL. **Pediatr Nephrol** 1996 Aug; 10(4):507–8
Idiopathic bronchocentric granulomatosis in an adolescent. Millar JG, et al. **Pediatr Pulmonol** 1997 Jan;23(1):62–5
Epstein–Barr virus encephalitis and encephalomyelitis: MR findings. Shian WJ, et al. **Pediatr Radiol** 1996 Sep; 26(9):690–3
Epstein–Barr virus–induced systemic lupus erythematosus? [letter; comment] Keen GA, et al. **S Afr Med J** 1996 Jul; 86(7):850. Comment on: S Afr Med J 1995 Sep;85(9):899–900.
Epstein–Barr virus–induced systemic lupus erythematosus [letter; comment] Matsukawa Y. **S Afr Med J** 1996 Jul; 86(7):850–1. Comment on: S Afr Med J 1995 Sep;85(9):899–900.
An animal model for acute and persistent Epstein–Barr virus infection. Moghaddam A, et al. **Science** 1997 Jun 27; 276(5321):2030–3
Epstein–Barr virus in Hodgkin's disease. Herbst H. **Semin Cancer Biol** 1996 Aug;7(4):183–9 (69 ref.)
EBV infection of T cells: potential role in malignant transformation. Kelleher CA, et al. **Semin Cancer Biol** 1996 Aug;7(4):197–207 (69 ref.)
Epstein–Barr virus and human T–cell lymphomas. Meijer CJ, et al. **Semin Cancer Biol** 1996 Aug;7(4):191–6
Epstein–Barr virus infection and the pathogenesis of nasopharyngeal carcinoma: viral gene expression, tumour cell phenotype, and the role of the lymphoid stroma. Niedobitek G, et al. **Semin Cancer Biol** 1996 Aug; 7(4):165–74 (92 ref.)
Epstein–Barr virus and gastric carcinoma. Osato T, et al. **Semin Cancer Biol** 1996 Aug;7(4):175–82 (41 ref.)
Successful treatment of posttransplant lymphoproliferative disorder with renal graft preservation by monoclonal antibody therapy. Antoine C, et al. **Transplant Proc** 1996 Oct;28(5):2825–6
Immunologic diagnostic and therapeutic aspects of cytomegalovirus, human herpes virus–6, and Epstein–Barr virus disease posttransplantation. Jacobs U, et al. **Transplant Proc** 1996 Dec;28(6):3238
Epstein Barr virus associated posttransplant lymphoproliferative disease after intestinal transplantation. Reyes J, et al. **Transplant Proc** 1996 Oct;28(5):2768–9
Reduced incidence of Epstein–Barr virus–associated posttransplant lymphoproliferative disorder using preemptive antiviral therapy. Darenkov IA, et al. **Transplantation** 1997 Sep 27;64(6):848–52
Epstein–Barr virus associated Burkitt lymphoma in a heart transplant recipient. Hunt BJ, et al. **Transplantation** 1996 Sep 27;62(6):869–72
Autologous lymphokine–activated killer cell therapy of Epstein–Barr virus–positive and –negative lymphoproliferative disorders arising in organ transplant recipients. Nalesnik MA, et al. **Transplantation** 1997 May 15;63(9):1200–5
Posttransplant lymphoproliferative disease in pediatric liver transplantation. Interplay between primary Epstein–Barr virus infection and immunosuppression. Newell KA, et al. **Transplantation** 1996 Aug 15;62(3):370–5
[The significance of detecting Epstein–Barr virus DNA and latent membrane protein I in Hodgkin's disease from a high incidence area of nasopharyngeal carcinoma] Chu B, et al. **Chung Hua Ping Li Hsueh Tsa Chih** 1996 Jun;25(3):155–8 (Eng. Abstr.) **(Chi)**
[Chorioretinal lymphoproliferative disorder induced by Epstein–Barr virus in lung transplantation] Demols P, et al. **Bull Soc Belge Ophtalmol** 1995;259:109–13 (Eng. Abstr.) **(Fre)**
[Lymphohistiocyte activation syndromes associated with Epstein–Barr virus] Stéphan JL, et al. **Pathol Biol (Paris)** 1997 Feb;45(2):131–6 (23 ref.) (Eng. Abstr.) **(Fre)**
[Absence of cerebral lymphoma in chronic Epstein–Barr virus encephalitis in a patient with HIV infection (letter)] Blanche P, et al. **Presse Med** 1997 Apr 19;26(13):611 **(Fre)**
[Epstein–Barr virus cerebellitis in a patient with human immunodeficiency virus infection. Occurrence of EBV Hodgkin's disease at 2 years (letter; comment)] Pulik M, et al. **Presse Med** 1996 Sep 14;25(26):1215. Comment on: Presse Med 1995 Feb 25;24(8):417. **(Fre)**
[Hodgkin disease with cellular markers of Epstein–Barr virus complicating the course of Gougerot–Sjögren syndrome (letter)] Gaches F, et al. **Rev Med Interne** 1997;18(1):79–80 **(Fre)**
[Painful bilateral lumbar radiculoplexopathy associated with Epstein–Barr virus infection] Pou Serradell A, et al. **Rev Neurol (Paris)** 1996 Jun–Jul;152(6–7):483–5 (Eng. Abstr.) **(Fre)**

[EBV-associated primary T-cell non-Hodgkin's lymphoma during immunosuppression after lung transplantation] **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1997 Jun;166(6):593–4 **(Ger)**

[Migrant polyarthritis and EBV infection] Venuta A, et al. **Pediatr Med Chir** 1997 Mar–Apr;19(2):135–6 (Eng. Abstr.) **(Ita)**

[Immunodeficiency and carcinogenesis in patients with chronic active Epstein-Barr virus infection] Nagafuchi S, et al. **Kansenshogaku Zasshi** 1997 Jan;71(1):56–64 (Eng. Abstr.) **(Jpn)**

[EB virus infection] Kawa K. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Dec;19(6):583–7 (4 ref.) **(Jpn)**

[Perspectives in EB virus research] Ito Y. **Nippon Rinsho** 1997 Feb;55(2):280–1 **(Jpn)**

[Opportunistic lymphoma] Katano H, et al. **Nippon Rinsho** 1997 Feb;55(2):441–5 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Current diagnosis and prognostic importance of EBV-associated neoplasms] Kawa K. **Nippon Rinsho** 1997 Feb;55(2):446–51 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Adoptive immune therapy using EBV-specific CTL] Kuzushima K, et al. **Nippon Rinsho** 1997 Feb;55(2):473–8 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Epstein-Barr virus oncogenesis and risk factors] Osato T. **Nippon Rinsho** 1997 Feb;55(2):289–92 (20 ref.) (Eng. Abstr.) **(Jpn)**

[The second golden age of EB virus research] Sugano H. **Nippon Rinsho** 1997 Feb;55(2):277–9 **(Jpn)**

[Epstein-Barr virus (EBV)-positive NK cell line YT, and ALL/LBL of NK-lineage] Tani A, et al. **Rinsho Byori** 1996 Oct;44(10):936–43 (28 ref.) (Eng. Abstr.) **(Jpn)**

[Fulminant cerebello-brainstem encephalitis with polyradiculitis following probable Epstein-Barr virus infection] Koguchi Y, et al. **Rinsho Shinkeigaku** 1996 Nov; 36(11):1225–8 (Eng. Abstr.) **(Jpn)**

[An epidemiological study of herpetic viral infections in the Republic of Byelarus] Kolomiets AG, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1997 May–Jun; (3):24–9 (Eng. Abstr.) **(Rus)**

[A 46 years-old woman with multiple lymph node enlargement after a recent infection by Epstein-Barr virus (clinical conference)] Besses C, et al. **Med Clin (Barc)** 1996 Sep 21;107(9):347–55 **(Spa)**

[Lymphoproliferative syndromes associated to the Epstein Barr virus in organ transplants] Hidalgo M, et al. **Med Clin (Barc)** 1996 Sep 14;107(8):310–6 (116 ref.) **(Spa)**

[Epstein-Barr virus primary infection: a poorly known cause of acute genital ulcer. Lipschütz ulcer? (letter)] Navarro Llanos A, et al. **Rev Clin Esp** 1996 Aug;196(8):570–1 **(Spa)**

[Intense icterus in the course of EBV infectious mononucleosis] Baudet Arteaga JS, et al. **Rev Esp Enferm Dig** 1996 Oct;88(10):709–11 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Reliability of four methods for the diagnosis of acute infection by Epstein-Barr virus. Gutiérrez J, et al. **J Clin Lab Anal** 1997;11(2):78–81

Viral interleukin-10 in chronic active Epstein-Barr virus infection. Kanegane H, et al. **J Infect Dis** 1997 Jul; 176(1):254–7

Glycoprotein B of bovine herpesvirus 4 is a major component of the virion, unlike that of two other gammaherpesviruses, Epstein-Barr virus and murine gammaherpesvirus 68. Lomonte P, et al. **J Virol** 1997 Apr;71(4):3332–5

EBNA1 and E2: a new paradigm for origin-binding proteins? Grossman SR, et al. **Trends Microbiol** 1996 Mar;4(3):87–9

Early detection of the lytic LMP-1 protein in EBV-infected B-cells suggests its presence in the virion. Erickson KD, et al. **Virology** 1997 Jul 21;234(1):1–13

CLASSIFICATION

Analysis of Epstein-Barr virus (EBV) type and variant in spontaneous lymphoblastoid cells and Hu-SCID mouse tumours. Menin C, et al. **Mol Cell Probes** 1996 Dec; 10(6):453–61

DRUG EFFECTS

Antisense oligodeoxynucleotides against the BZLF1 transcript inhibit induction of productive Epstein-Barr virus replication [published erratum appears in Antiviral Res 1996 Oct;32(2):117] Diabata M, et al. **Antiviral Res** 1996 Mar;29(2–3):243–60

Neuramide inhibits Epstein-Barr virus-induced transformation activity and proliferation of transformed B lymphocytes. Venanzoni MC, et al. **Antiviral Res** 1997 Feb; 33(3):177–85

Inhibitory effects on Epstein-Barr virus activation of anthraquinones: correlation with redox potentials. Koyama J, et al. **Cancer Lett** 1997 May 19;115(2):179–83

Cyclosporin A-sensitive induction of the Epstein-Barr virus lytic switch is mediated via a novel pathway involving a MEF2 family member. Liu S, et al. **EMBO J** 1997 Jan 2;16(1):143–53

Potential in vitro activity of Kutapressin against Epstein-Barr virus. Rosenfeld E, et al. **In Vivo** 1996 May–Jun;10(3):313–8

Inhibitory effects of lantadenes and related triterpenoids on Epstein-Barr virus activation. Inada A, et al. **Planta Med** 1995 Dec;61(6):558–9

ENZYMOLOGY

Strand displacement associated DNA synthesis catalyzed by the Epstein-Barr virus DNA polymerase. Tsurumi T, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):33–8

The Epstein-Barr virus genome encodes deoxythymidine kinase activity in a nested internal open reading frame. Holton RH, et al. **Intervirology** 1996;39(4):270–4

Cloning and expression of the Epstein-Barr virus-encoded dUTPase: patients with acute, reactivated or chronic virus infection develop antibodies against the enzyme. Sommer P, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2795–805

Epstein-Barr virus-encoded deoxyuridine triphosphate nucleotidohydrolase (dUTPase): a potential target for drug therapy. Kremmer E, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):812–4

Expression of the DNase encoded by the BGLF5 gene of Epstein-Barr virus in nasopharyngeal carcinoma epithelial cells. Sbih-Lammali F, et al. **Virology** 1996 Aug 1; 222(1):64–74

A noncanonical poly(A) signal, UAUAAA, and flanking elements in Epstein-Barr virus DNA polymerase mRNA function in cleavage and polyadenylation assays. Silver Key SC, et al. **Virology** 1997 Jul 21;234(1):147–59

The Epstein-Barr virus (EBV) DNA polymerase accessory protein, BMRF1, activates the essential downstream component of the EBV oriLyt. Zhang Q, et al. **Virology** 1997 Mar 31;230(1):22–34

[Virus propagation and proteases: with special emphasis on the newly discovered serine protease in human herpes virus] Maeda H. **Tanpakushitsu Kakusan Koso** 1997 May; 42(6):875–9 (25 ref.) **(Jpn)**

GENETICS

In situ hybridization studies of cytomegalovirus and Epstein-Barr virus in reactive histiocytic hyperplasia with hemophagocytosis. Han K, et al. **Acta Haematol** 1996; 96(3):140–5

Presence of Epstein-Barr virus genome in the bone marrow of patients with hematopoietic malignancies. Watanabe H, et al. **Acta Haematol** 1997;98(1):32–6

Analysis of the genome of an Epstein-Barr-virus (EBV)-related herpesvirus in a cynomolgus monkey cell line (Si-IIA). Ino H, et al. **Acta Med Okayama** 1997 Aug; 51(4):207–12

Human T-cell lymphotropic virus tax and Epstein-Barr virus DNA in peripheral blood of multiple sclerosis patients during acute attack. Ferrante P, et al. **Acta Neurol Scand Suppl** 1997;169:79–85

The implications of Epstein-Barr virus in multiple sclerosis--a review. Munch M, et al. **Acta Neurol Scand Suppl** 1997;169:59–64 (56 ref.)

Mutations of the Epstein-Barr virus LMP-1 oncogene in a 10-year-old Japanese girl with nasopharyngeal carcinoma. Ohashi Y, et al. **Acta Paediatr** 1996 Nov;85(11):1376–9

The Epstein-Barr virus gene BHRF1, a homologue of the cellular oncogene Bcl-2, inhibits apoptosis induced by gamma radiation and chemotherapeutic drugs. McCarthy NJ, et al. **Adv Exp Med Biol** 1996;406:83–97

Latent membrane protein antibody reacts with normal hematopoietic precursor cells and leukemic blasts in tissues lacking Epstein-Barr virus genome by polymerase chain reaction. Hammer RD, et al. **Am J Clin Pathol** 1996 Oct; 106(4):469–74

BCL-6 protein expression in AIDS-related non-Hodgkin's lymphomas: inverse relationship with Epstein-Barr virus-encoded latent membrane protein-1 expression. Carbone A, et al. **Am J Pathol** 1997 Jan;150(1):155–65

Epstein-Barr virus--associated acute autonomic neuropathy. Bennett JL, et al. **Ann Neurol** 1996 Sep;40(3):453–5

Endogenous antigen presentation by autoantigen-transfected Epstein-Barr virus-lymphoblastoid cells: T cell receptor N-region hydrophobicity relates to thyroid antigen recognition [published erratum appears in Autoimmunity 1996;23(1):75] Martin A, et al. **Autoimmunity** 1995; 21(4):223–30

Strand displacement associated DNA synthesis catalyzed by the Epstein-Barr virus DNA polymerase. Tsurumi T, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):33–8

Detection of Epstein-Barr viral DNA in serum using rapid-cycle PCR. Mouritsen CL, et al. **Biochem Mol Med** 1997 Apr;60(2):161–8

BZLF1 (ZEBRA, Zta) protein of Epstein-Barr virus selected in a yeast one-hybrid system by binding to a consensus site in the IgH intronic enhancer: a role in immunoglobulin expression? Gstaiger M, et al. **Biol Chem** 1996 Oct; 377(10):669–73

Epstein-Barr virus genes and cancer cells. Farrell PJ, et al. **Biomed Pharmacother** 1997;51(6–7):258–67 (82 ref.)

Analysis of Epstein-Barr virus gene polymorphisms in normal donors and in virus-associated tumors from different geographic locations. Khanim F, et al. **Blood** 1996 Nov 1;88(9):3491–501

CpG methylation of the major Epstein-Barr virus latency promoter in Burkitt's lymphoma and Hodgkin's disease. Robertson KD, et al. **Blood** 1996 Oct 15;88(8):3129–36

Sequence analysis of the Epstein-Barr virus (EBV) latent membrane protein-1 gene and promoter region: identification of four variants among wild-type EBV isolates. Sandvej K, et al. **Blood** 1997 Jul 1;90(1):323–30

Epstein-Barr virus episomes as targets for cigarette smoke- and gamma-irradiation-induced DNA damage: studies on the EBNA-1 region by a new gene-specific technique. Yang Q, et al. **Carcinogenesis** 1997 Jul;18(7):1401–5

The use of Epstein-Barr virus-based shuttle vectors in rat PC12 cells. Lindenboim L, et al. **Cell Mol Neurobiol** 1997 Feb;17(1):119–27

Dissociation of EBV genome replication and host cell proliferation in anti-IgG-stimulated Akata cells. Takase K, et al. **Clin Immunol Immunopathol** 1996 Nov; 81(2):168–74

The role of human herpesvirus 8 and Epstein-Barr virus in the pathogenesis of giant lymph node hyperplasia (Castleman's disease). Corbellino M, et al. **Clin Infect Dis** 1996 Jun;22(6):1120–1

High-resolution FISH of the entire integrated Epstein-Barr virus genome on extended human DNA. Lestou VS, et al. **Cytogenet Cell Genet** 1996;74(3):211–7

Identification of a promoter for the latent membrane protein 1 gene of Epstein-Barr virus that is specifically activated in human epithelial cells. Chang MH, et al. **DNA Cell Biol** 1997 Jul;16(7):829–37

Suitability of Epstein-Barr virus-based episomal vectors for expression of cytokine genes in human lymphoma cells. Mucke S, et al. **Gene Ther** 1997 Feb;4(2):82–92

Engineering a mini-herpesvirus as a general strategy to transduce up to 180 kb of functional self-replicating human mini-chromosomes. Sun TQ, et al. **Gene Ther** 1996 Dec; 3(12):1081–8

Epstein-Barr virus latent and replicative gene expression in gastric carcinoma. Selves J, et al. **Histopathology** 1996 Feb; 28(2):121–7

Absence of EBV genome in lymphoepithelioma-like carcinomas of the larynx. Tardío JC, et al. **Histopathology** 1997 Feb;30(2):126–8

Episomal vectors rapidly and stably produce high-titer recombinant retrovirus. Kinsella TM, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1405–13

Clonal Epstein-Barr virus associated cholangiocarcinoma with lymphoepithelioma-like component. Hsu HC, et al. **Hum Pathol** 1996 Aug;27(8):848–50

Prevalence of Epstein-Barr viral sequences and EBV LMP1 oncogene deletions in Burkitt's lymphoma from Pakistan: epidemiological correlations. Mansoor A, et al. **Hum Pathol** 1997 Mar;28(3):283–8

Association of the Epstein-Barr virus with Hodgkin's disease in Southern Israel. Benharroch D, et al. **Int J Cancer** 1997 Apr 10;71(2):138–41

Transcription of latent and replicative Epstein-Barr-virus genes in bone-marrow and peripheral-blood mononuclear cells of healthy donors. Gonnella R, et al. **Int J Cancer** 1997 Mar 4;70(5):524–9

Prevalence of mutations and 30-bp deletion in the C-terminal region of Epstein-Barr virus latent membrane protein-1 oncogene in reactive lymphoid tissue and non-nasopharyngeal EBV-associated carcinomas in Hong Kong Chinese. Leung SY, et al. **Int J Cancer** 1997 Jul 17;72(2):225–30

Integrated Epstein-Barr virus (EBV) and chromosomal abnormality in chronic active EBV infection. Ohshima K, et al. **Int J Cancer** 1997 Jun 11;71(6):943–7

Epstein-Barr virus in gastric carcinoma in Suzhou, China and Osaka, Japan: association with clinico-pathologic factors and HLA-subtype. Qiu K, et al. **Int J Cancer** 1997 Apr 10;71(2):155–8

Molecular epidemiology of Epstein-Barr virus (EBV) in EBV-related malignancies. Sidagis J, et al. **Int J Cancer** 1997 Jul 3;72(1):72–6

Are acetowhite lesions of the cervix correlated to the presence of Epstein-Barr virus DNA? Voog E, et al. **Int J STD AIDS** 1997 Jul;8(7):432–6

G0/G1 growth arrest mediated by a region encompassing the basic leucine zipper (bZIP) domain of the Epstein-Barr virus transactivator Zta. Cayrol C, et al. **J Biol Chem** 1996 Dec 13;271(50):31799–802

The keratinocyte-specific Epstein-Barr virus ED-L2 promoter is regulated by phorbol 12-myristate 13-acetate through two cis-regulatory elements containing E-box and Krüppel-like factor motifs. Jenkins TD, et al. **J Biol Chem** 1997 Sep 26;272(39):24433–42

A CACCC box-like cis-regulatory element of the Epstein-Barr virus ED-L2 promoter interacts with a novel transcriptional factor in tissue-specific squamous epithelia. Nakagawa H, et al. **J Biol Chem** 1997 Jun 27; 272(26):16688–99

Exposure to a 50 Hz electromagnetic field induces activation of the Epstein-Barr virus genome in latently infected human lymphoid cells. Grimaldi S, et al. **J Environ Pathol Toxicol Oncol** 1997;16(2–3):205–7

Frequency and distribution of chromosomal integration sites of the Epstein-Barr virus genome. Wuu KD, et al. **J Formos Med Assoc** 1996 Dec;95(12):911–6

The latent membrane protein 2 gene of Epstein-Barr virus is important for efficient B cell immortalization. Brielmeier M, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2807–18

The role of repetitive DNA sequences in the size variation of Epstein-Barr virus (EBV) nuclear antigens, and the identification of different EBV isolates using RFLP and PCR analysis. Falk K, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):779–90

Direct demonstration of persistent Epstein-Barr virus gene

expression in peripheral blood of infected common marmosets and analysis of virus-infected tissues in vivo. Farrell PJ, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1417-24

Sequence variations in EBNA-1 may dictate restriction of tissue distribution of Epstein-Barr virus in normal and tumour cells. Gutiérrez MI, et al. **J Gen Virol** 1997 Jul; 78 (Pt 7):1663-70

Identification of an epithelial cell differentiation responsive region within the BZLF1 promoter of the Epstein-Barr virus. Karimi L, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):759-65

Absence of Epstein-Barr virus involvement in an adult heart transplant recipient with an epitheloid leiomyosarcoma [letter] van Gelder T, et al. **J Heart Lung Transplant** 1996 Jun;15(6):650-1

Extremely efficient gene transfection into lympho-hematopoietic cell lines by Epstein-Barr virus-based vectors. Mazda O, et al. **J Immunol Methods** 1997 May 26;204(2):143-51

Microsatellite instability in Epstein-Barr virus associated with nasopharyngeal carcinoma. Tanunyutthawongese C, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S71-7

Direct identification by PCR of EBV types and variants in clinical samples. Falk KI, et al. **J Med Virol** 1997 Apr; 51(4):355-63

Detection of a nuclear antigen 2 (EBNA2)-variant Epstein-Barr virus strain in two siblings with fatal lymphoproliferative disease. Schuster V, et al. **J Med Virol** 1996 Jan;48(1):114-20

Genomic analysis of Epstein-Barr virus in nasal and peripheral T-cell lymphoma: a comparison with nasopharyngeal carcinoma in an endemic area. Wu SJ, et al. **J Med Virol** 1996 Dec;50(4):314-21

Identification of a novel protein encoded by the BamHI A region of the Epstein-Barr virus. Fries KL, et al. **J Virol** 1997 Apr;71(4):2765-71

Induction of an exceptionally high-level, nontranslated, Epstein-Barr virus-encoded polyadenylated transcript in the Burkitt's lymphoma line Daudi. Gao Y, et al. **J Virol** 1997 Jan;71(1):84-94

Epstein-Barr virus nuclear protein LP stimulates EBNA-2 acidic domain-mediated transcriptional activation. Harada S, et al. **J Virol** 1997 Sep;71(9):6611-8

Chaperone functions common to nonhomologous Epstein-Barr virus gL and Varicella-Zoster virus gL proteins. Li Q, et al. **J Virol** 1997 Feb;71(2):1667-70

Interferon-independent and -induced regulation of Epstein-Barr virus EBNA-1 gene transcription in Burkitt lymphoma. Nonkwelo C, et al. **J Virol** 1997 Sep; 71(9):6887-97

The Epstein-Barr virus EBNA-1 promoter Qp requires an initiator-like element. Nonkwelo C, et al. **J Virol** 1997 Jan; 71(1):354-61

Regulation of EBNA gene transcription in lymphoblastoid cell lines: characterization of sequences downstream of BCR2 (Cp). Puglielli MT, et al. **J Virol** 1997 Jan; 71(1):120-8

Mapping promoter regions that are hypersensitive to methylation-mediated inhibition of transcription: application of the methylation cassette assay to the Epstein-Barr virus major latency promoter. Robertson KD, et al. **J Virol** 1997 Sep;71(9):6445-54

A replication function associated with the activation domain of the Epstein-Barr virus Zta transactivator. Sarisky RT, et al. **J Virol** 1996 Dec;70(12):8340-7

A simple reverse transcriptase PCR assay to distinguish EBNA1 gene transcripts associated with type I and II latency from those arising during induction of the viral lytic cycle. Schaefer BC, et al. **J Virol** 1996 Nov; 70(11):8204-8

Clonal propagation of Epstein-Barr virus (EBV) recombinants in EBV-negative Akata cells. Shimizu N, et al. **J Virol** 1996 Oct;70(10):7260-3

Sp1 binds to the precise locus of end processing within the terminal repeats of Epstein-Barr virus DNA. Sun R, et al. **J Virol** 1997 Aug;71(8):6136-43

A hybrid herpesvirus infectious vector based on Epstein-Barr virus and herpes simplex virus type 1 for gene transfer into human cells in vitro and in vivo. Wang S, et al. **J Virol** 1996 Dec;70(12):8422-30

The herpesvirus saimiri ORF50 gene, encoding a transcriptional activator homologous to the Epstein-Barr virus R protein, is transcribed from two distinct promoters of different temporal phases. Whitehouse A, et al. **J Virol** 1997 Mar;71(3):2550-4

Isolation of intertypic recombinants of Epstein-Barr virus from T-cell-immunocompromised individuals. Yao QY, et al. **J Virol** 1996 Aug;70(8):4895-903

Absence of human papillomavirus-16 and -18 DNA and Epstein-Barr virus DNA in esophageal squamous cell carcinoma. Mizobuchi S, et al. **Jpn J Clin Oncol** 1997 Feb; 27(1):1-5

Molecular epidemiology of deletions and mutations of the latent membrane protein 1 oncogene of the Epstein-Barr virus in posttransplant lymphoproliferative disorders [published erratum appears in Lab Invest 1997 Mar;76(3):439] Smir BN, et al. **Lab Invest** 1996 Oct; 75(4):575-88

Detection of Epstein-Barr virus by PCR analyses in lymphoproliferative disease of granular lymphocytes. Pellenz M, et al. **Leuk Lymphoma** 1996 Oct;23(3-4):371-4

Epstein-Barr Virus EBNA-2 gene expression enhances lymphotoxin production by B lymphocytes. McClain K, et al. **Methods** 1997 Jan;11(1):83-7

Initiation points for cellular deoxyribonucleic acid replication in human lymphoid cells converted by Epstein-Barr virus. Oppenheim A, et al. **Mol Cell Biol** 1981 Aug;1(8):753-62

Striking similarities are exhibited by two small Epstein-Barr virus-encoded ribonucleic acids and the adenovirus-associated ribonucleic acids VAI and VAII. Rosa MD, et al. **Mol Cell Biol** 1981 Sep;1(9):785-96

Host-cell-determined methylation of specific Epstein-Barr virus promoters regulates the choice between distinct viral latency programs. Schaefer BC, et al. **Mol Cell Biol** 1997 Jan;17(1):364-77

Constitutive activation of Epstein-Barr virus (EBV) nuclear antigen 1 gene transcription by IRF1 and IRF2 during restricted EBV latency. Schaefer BC, et al. **Mol Cell Biol** 1997 Feb;17(2):873-86

Multiprimed cDNA synthesis followed by PCR is the most suitable method for Epstein-Barr virus transcript analysis in small lymphoma biopsies. Brink AA, et al. **Mol Cell Probes** 1997 Feb;11(1):39-47

Detection and differentiation of Epstein-Barr virus strains by in situ polymerase chain reaction. Tamaki H, et al. **Mol Cell Probes** 1997 Jun;11(3):237-41

Epstein-Barr virus-driven gene therapy for EBV-related lymphomas. Franken M, et al. **Nat Med** 1996 Dec; 2(12):1379-82

Regulation of the double-stranded RNA-dependent protein kinase PKR by RNAs encoded by a repeated sequence in the Epstein-Barr virus genome. Elia A, et al. **Nucleic Acids Res** 1996 Nov 15;24(22):4471-8

A particular DNA structure is required for the function of a cis-acting component of the Epstein-Barr virus OriLyt origin of replication. Portes-Sentis S, et al. **Nucleic Acids Res** 1997 Apr 1;25(7):1347-54

Expression of Egr-1 correlates with the transformed phenotype and the type of viral latency in EBV genome positive lymphoid cell lines. Calogero A, et al. **Oncogene** 1996 Nov 21;13(10):2105-12

Epstein-Barr virus-encoded LMP1 and CD40 mediate IL-6 production in epithelial cells via an NF-kappaB pathway involving TNF receptor-associated factors. Eliopoulos AG, et al. **Oncogene** 1997 Jun 19;14(24):2899-916

Expression of the LMP1 oncoprotein in the EBV negative Hodgkin's disease cell line L-428 is associated with Reed-Sternberg cell morphology. Knecht H, et al. **Oncogene** 1996 Sep 5;13(5):947-53

Inhibition of in vitro proliferation of Epstein Barr Virus infected B cells by an antisense oligodeoxynucleotide targeted against EBV latent membrane protein LMP1. Mattia E, et al. **Oncogene** 1997 Jul 24;15(4):489-93

The targeting of the cyclin D1 oncogene by an Epstein-Barr virus promoter in transgenic mice causes dysplasia in the tongue, esophagus and forestomach. Nakagawa H, et al. **Oncogene** 1997 Mar 13;14(10):1185-90

Epstein-Barr virus latent membrane protein does not inhibit differentiation and induces tumorigenicity of human epithelial cells. Nicholson LJ, et al. **Oncogene** 1997 Jul 17; 15(3):275-83

Epstein-Barr virus nuclear antigen (EBNA)3C is an immortalizing oncoprotein with similar properties to adenovirus E1A and papillomavirus E7. Parker GA, et al. **Oncogene** 1996 Dec 19;13(12):2541-9

Natural 30 base pair and 69 base pair deletion variants of the LMP1 oncogene do stimulate NF-kappaB-mediated transcription. Rothenberger S, et al. **Oncogene** 1997 May 1;14(17):2123-6

Establishment of a monkey kidney epithelial cell line with the BARF1 open reading frame from Epstein-Barr virus. Wei MX, et al. **Oncogene** 1997 Jun 26;14(25):3073-81

Analysis of the Epstein-Barr viral genome in so-called malignant histiocytosis syndrome. Kobari S, et al. **Pathol Int** 1996 May;46(5):355-63

Epstein-Barr virus PCR correlated with viral histology and serology in pediatric liver transplant patients. Rogers BB, et al. **Pediatr Pathol Lab Med** 1997 May-Jun;17(3):391-400

The Epstein-Barr virus LMP1 amino acid sequence that engages tumor necrosis factor receptor associated factors is critical for primary B lymphocyte growth transformation. Izumi KM, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1447-52

Tumor necrosis factor receptor associated factor 2 is a mediator of NF-kappa B activation by latent infection membrane protein 1, the Epstein-Barr virus transforming protein. Kaye KM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11085-90

Epstein-Barr virus vectors for gene delivery to B lymphocytes. Robertson ES, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11334-40

Single-step hybridization screening for recombinant DNA clones with correct insert orientation and intact junction using a junctional oligonucleotide probe. Au LC, et al. **Proc Natl Sci Counc Repub China B** 1996 Apr;20(2):27-30

Detection of Epstein-Barr virus DNA by polymerase chain reaction in the vitreous from a patient with Vogt-Koyanagi-Harada syndrome. Bassili SS, et al. **Retina** 1996;16(2):160-1

Epstein-Barr virus as a therapeutic target in Hodgkin's disease and nasopharyngeal carcinoma. Ambinder RF, et al. **Semin Cancer Biol** 1996 Aug;7(4):217-26 (69 ref.)

Are particular Epstein-Barr virus strains linked to disease? Jenkins PJ, et al. **Semin Cancer Biol** 1996 Aug;7(4):209-15 (52 ref.)

Bovine herpesvirus 4: genomic organization and relationship with two other gammaherpesviruses, Epstein-Barr virus and herpesvirus saimiri. Lomonte P, et al. **Vet Microbiol** 1996 Nov;53(1-2):79-89 (43 ref.)

The bZip dimerization domain of the Epstein-Barr virus BZLF1 (Z) protein mediates lymphoid-specific negative regulation. Hong Y, et al. **Virology** 1997 Mar 3;229(1):36-48

EBV binds to lymphocytes of transgenic mice that express the human CR2 gene. Kearns-Jonker M, et al. **Virus Res** 1997 Jul;50(1):85-94

[Latency of Epstein-Barr virus and its relationship to nasopharyngeal carcinomas] You S, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):23-6 (Eng. Abstr.) **(Chi)**

[Epstein-Barr virus associated gastric carcinoma: the genetic alteration and the expression of CD44 variant] Chong JM, et al. **Nippon Rinsho** 1997 Feb;55(2):381-5 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Sequence analysis of the carboxy terminal of the Epstein-Barr virus LMP-1 oncogene in Epstein-Barr virus associated disorders] Itakura O, et al. **Nippon Rinsho** 1997 Feb;55(2):467-72 (15 ref.) (Eng. Abstr.) **(Jpn)**

[Potential role of Epstein-Barr virus in Sjögren's syndrome] Saito I. **Nippon Rinsho** 1997 Jun;55(6):1505-11 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Analysis of EBV infection in various cell types with recombinant EBV] Shimizu N. **Nippon Rinsho** 1997 Feb; 55(2):311-5 (16 ref.) (Eng. Abstr.) **(Jpn)**

[Progress in Epstein-Barr virus research] Takada K. **Nippon Rinsho** 1997 Feb;55(2):285-8 (28 ref.) **(Jpn)**

[Molecular pathological studies on Epstein-Barr virus (EBV) infected cells and EBV-associated tumor cells] Yamamoto T, et al. **Nippon Rinsho** 1997 Feb;55(2):452-60 (22 ref.) (Eng. Abstr.) **(Jpn)**

[Interaction between Epstein-Barr virus (EBV) gene expression and antibodies to EBV in nasopharyngeal carcinomas] Furukawa M, et al. **Rinsho Byori** 1996 Sep; 44(9):832-7 (Eng. Abstr.) **(Jpn)**

GROWTH & DEVELOPMENT

Inhibitory effects on Epstein-Barr virus activation of anthraquinones: correlation with redox potentials. Koyama J, et al. **Cancer Lett** 1997 May 19;115(2):179-83

Epstein-Barr viral latency is disrupted by the immediate-early BRLF1 protein through a cell-specific mechanism. Zalani S, et al. **Proc Natl Acad Sci U S A** 1996 Aug 20;93(17):9194-9

[Isolation and characterization of Epstein-Barr virus-infected clones of a human T-lymphoblastoid cell line] Fujiwara S, et al. **Nippon Rinsho** 1997 Feb;55(2):416-23 (20 ref.) (Eng. Abstr.) **(Jpn)**

[The mechanisms of Epstein-Barr virus activation in B cells] Sairenji T. **Nippon Rinsho** 1997 Feb;55(2):316-20 (12 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Direct detection of Epstein-Barr viral antigen in nasopharyngeal swabs from patients with infectious mononucleosis. Bills ND, et al. **Acad Emerg Med** 1996 Aug; 3(8):776-81

Post-transplantation lymphoproliferative disorder in the Epstein-Barr virus-naive lung transplant recipient. Aris RM, et al. **Am J Respir Crit Care Med** 1996 Dec;154(6 Pt 1):1712-7

Epstein-Barr virus--associated acute autonomic neuropathy. Bennett JL, et al. **Ann Neurol** 1996 Sep;40(3):453-5

Human cytotoxic T lymphocyte responses to Epstein-Barr virus infection. Rickinson AB, et al. **Annu Rev Immunol** 1997;15:405-31 (135 ref.)

Serological and clinical findings in patients with serological evidence of reactivated Epstein-Barr virus infection. Obel N, et al. **APMIS** 1996 Jun;104(6):424-8

Transfer factor with anti-EBV activity as an adjuvant therapy for nasopharyngeal carcinoma: a pilot study. Prasad U, et al. **Biotherapy** 1996;9(1-3):109-15

Isolation of Epstein-Barr virus (EBV)-specific cytotoxic T lymphocytes that lyse Reed-Sternberg cells: implications for immune-mediated therapy of EBV+ Hodgkin's disease. Sing AP, et al. **Blood** 1997 Mar 15;89(6):1978-86

Increased anti-Epstein-Barr virus antibodies in epidermotropic cutaneous T-cell lymphoma: a study of 64 patients. Jumbou O, et al. **Br J Dermatol** 1997 Feb; 136(2):212-6

Rheumatic disease patients, prone to Sjögren's syndrome and/or lymphoma, mount an antibody response to BHRF1, the Epstein-Barr viral homologue of BCL-2. Newkirk MM, et al. **Br J Rheumatol** 1996 Nov;35(11):1075-81

Serum responses to the combination of Epstein-Barr virus antigens from both latent and acute phases in nasopharyngeal carcinoma: complementary test of EBNA-1 with EA-D. Chow KC, et al. **Cancer Epidemiol Biomarkers Prev** 1997 May;6(5):363-8

Use of recombinant Epstein-Barr virus early antigen for detection of antibody in patients with nasopharyngeal carcinoma. Liu MT, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan;57(1):7-15

Decreased expression of 20-kD homologous restriction factor (HRF20, CD59) on T lymphocytes in Epstein-Barr virus (EBV)-induced infectious mononucleosis. Kawano M, et al. **Clin Exp Immunol** 1997 May;108(2):260-5

Editorial response: periodic illness associated with Epstein-Barr virus infection [editorial; comment] Sumaya CV. **Clin Infect Dis** 1996 Jan;22(1):28-9. Comment on: Clin Infect Dis 1996 Jan;22(1):22-7.

Structure and pathophysiology of the erythrocyte membrane-associated Paul-Bunnell heterophile antibody determinant in Epstein-Barr virus-associated disease. Patarca R, et al. **Crit Rev Oncog** 1995;6(3-6):305-26

Cytotoxic T lymphocyte responses to Epstein-Barr virus. Rickinson AB, et al. **Curr Opin Immunol** 1996 Aug; 8(4):492-7 (44 ref.)

Gloves-and-socks syndrome in a patient with Epstein-Barr virus infection [letter] Drago F, et al. **Dermatology** 1997; 194(4):374

Differential immunogenicity of Epstein-Barr virus (EBV) encoded growth transformation-associated antigens in a murine model system. Trivedi P, et al. **Eur J Cancer** 1997 May;33(6):912-7

Cross-reactive memory T cells for Epstein-Barr virus augment the alloresponse to common human leukocyte antigens: degenerate recognition of major histocompatibility complex-bound peptide by T cells and its role in alloreactivity. Burrows SR, et al. **Eur J Immunol** 1997 Jul;27(7):1726-36

EBV-specific cytotoxic T lymphocytes protect against human EBV-associated lymphoma in scid mice. Buchsbaum RJ, et al. **Immunol Lett** 1996 Sep; 52(2-3):145-52

Epstein-Barr virus infection of T cells: implications for altered T-lymphocyte activation, repertoire development and autoimmunity. Dreyfus DH, et al. **Immunol Rev** 1996 Aug;152:89-110 (67 ref.)

Adoptive cellular immunotherapy for EBV lymphoproliferative disease. Heslop HE, et al. **Immunol Rev** 1997 Jun;157:217-22 (39 ref.)

Biology and adoptive cell therapy of Epstein-Barr virus-associated lymphoproliferative disorders in recipients of marrow allografts. O'Reilly RJ, et al. **Immunol Rev** 1997 Jun;157:195-216 (186 ref.)

Serological evidence for active Epstein-Barr virus infection in multifocal choroiditis. Bhende PS, et al. **Indian J Pathol Microbiol** 1997 Apr;40(2):129-31

Detection of Epstein-Barr virus-encoded small RNA 1 and latent membrane protein 1 in synovial lining cells from rheumatoid arthritis patients. Takei M, et al. **Int Immunol** 1997 May;9(5):739-43

Preventive effect of IgG from EBV-seropositive donors on the development of human lympho-proliferative disease in SCID mice. Abedi MR, et al. **Int J Cancer** 1997 May 16;71(4):624-9

B-CLL cells with unusual properties. Avila-Cariño J, et al. **Int J Cancer** 1997 Jan 6;70(1):1-8

Determination of HLA-A*02 antigen status in Hodgkin's disease and analysis of an HLA-A*02-restricted epitope of the Epstein-Barr virus LMP-2 protein. Bryden H, et al. **Int J Cancer** 1997 Aug 7;72(4):614-8

Lack of correlation between EBV serology and presence of EBV in the Hodgkin and Reed-Sternberg cells of patients with Hodgkin's disease. Enblad G, et al. **Int J Cancer** 1997 Jul 29;72(3):394-7

Lymphoblastoid cells transfected with c-myc: downregulation of EBV-lytic antigens and impaired response of autologous CD4+ T cells in vitro. Fais F, et al. **Int J Cancer** 1996 Dec 11;68(6):810-6

Correlation between herpes and Epstein-Barr viruses and acute myocardial infarction [letter] Liguori A, et al. **Int J Cardiol** 1996 Dec 6;57(2):185-6

Epstein-Barr virus-specific cytotoxic T cell responses in HIV-1 infection: different kinetics in patients progressing to opportunistic infection or non-Hodgkin's lymphoma. Kersten MJ, et al. **J Clin Invest** 1997 Apr 1;99(7):1525-33

Reliability of four methods for the diagnosis of acute infection by Epstein-Barr virus. Gutiérrez J, et al. **J Clin Lab Anal** 1997;11(2):78-81

Evaluations of enzyme-linked immunosorbent assay procedure for determining specific Epstein-Barr virus serology and of rapid test kits for diagnosis for infectious mononucleosis. Gerber MA, et al. **J Clin Microbiol** 1996 Dec;34(12):3240-1

Expression of epstein-barr virus encoded nuclear antigen 1 in benign and malignant tissues harbouring EBV. Oudejans JJ, et al. **J Clin Pathol** 1996 Nov;49(11):897-902

Epitope-dependent selection of highly restricted or diverse T cell receptor repertoires in response to persistent infection by Epstein-Barr virus. Campos-Lima PO, et al. **J Exp Med** 1997 Jul 7;186(1):83-9

When do microbes stimulate rheumatoid factor? [comment] Posnett DN, et al. **J Exp Med** 1997 May 19;185(10):1721-3 (26 ref.). Comment on: J Exp Med 1997 May 19;185(10):1785-92.

T cell response to Epstein-Barr virus transactivators in chronic rheumatoid arthritis. Scotet E, et al. **J Exp Med** 1996 Nov 1;184(5):1791-800

Immediate early and early lytic cycle proteins are frequent targets of the Epstein-Barr virus-induced cytotoxic T cell response. Steven NM, et al. **J Exp Med** 1997 May 5; 185(9):1605-17

An Epstein-Barr virus-associated superantigen. Sutkowski N, et al. **J Exp Med** 1996 Sep 1;184(3):971-80

The cytoplasmic C-terminal domain but not the N-terminal domain of latent membrane protein 1 of Epstein-Barr virus is essential for B cell activation. Peng-Pilon M, et al. **J Gen Virol** 1995 Apr;76 (Pt 4):767-77

Epstein-Barr virus binding to CD21, the virus receptor, activates resting B cells via an intracellular pathway that is linked to B cell infection. Roberts ML, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3077-85

Human peptide transporter deficiency: importance of HLA-B in the presentation of TAP-independent EBV antigens. de la Salle H, et al. **J Immunol** 1997 May 15; 158(10):4555-63

Class I processing-defective Burkitt's lymphoma cells are recognized efficiently by CD4+ EBV-specific CTLs. Khanna R, et al. **J Immunol** 1997 Apr 15;158(8):3619-25

Conserved CTL epitopes within EBV latent membrane protein 2: a potential target for CTL-based tumor therapy. Lee SP, et al. **J Immunol** 1997 Apr 1;158(7):3325-34

Cytotoxic CD8+ T cells recognize EBV antigen but poorly kill autologous EBV-infected B lymphoblasts: immunodominance is elicited by a peptide epitope that is presented at low levels in vitro. Shi Y, et al. **J Immunol** 1997 Aug 15;159(4):1844-52

Antibody and antibody-dependent cellular cytotoxicity responses against the BamHI A rightward open-reading frame-1 protein of Epstein-Barr virus (EBV) in EBV-associated disorders. Tanner JE, et al. **J Infect Dis** 1997 Jan;175(1):38-46

Prevalence of Epstein-Barr virus (EBV) antibodies in primate stocks of zoological gardens. Fellinger J, et al. **J Med Primatol** 1996 Oct;25(5):327-32

Seroepidemiological study of Epstein-Barr virus infection in Bangladesh. Haque T, et al. **J Med Virol** 1996 Jan; 48(1):17-21

Evaluation of multiple antibodies to Epstein-Barr virus as markers for detecting patients with nasopharyngeal carcinoma. Liu MY, et al. **J Med Virol** 1997 Jul;52(3):262-9

Immunisation of common marmosets with vaccinia virus expressing Epstein-Barr virus (EBV) gp340 and challenge with EBV. Mackett M, et al. **J Med Virol** 1996 Nov; 50(3):263-71

Haemolysis in hepatitis A virus infections coinciding with the occurrence of autoantibodies against triosephosphate isomerase and the reactivation of latent persistent Epstein-Barr virus infection. Ritter S, et al. **J Med Virol** 1996 Nov;50(3):272-5

An Epstein Barr virus-related cross reactive autoimmune response in multiple sclerosis in Norway. Vaughan JH, et al. **J Neuroimmunol** 1996 Sep;69(1-2):95-102

Enhanced malignant progression of nasopharyngeal carcinoma cells mediated by the expression of Epstein-Barr nuclear antigen 1 in vivo. Sheu LF, et al. **J Pathol** 1996 Nov;180(3):243-8

Hodgkin disease occurring in a patient with extremely high serum antibody titers to Epstein-Barr virus--associated antigens without chronic illness. Azuma H, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):387-91

Epithelial cell polarization is a determinant in the infectious outcome of immunoglobulin A-mediated entry by Epstein-Barr virus. Gan YJ, et al. **J Virol** 1997 Jan; 71(1):519-26

Identification of type B-specific and cross-reactive cytotoxic T-lymphocyte responses to Epstein-Barr virus. Kerr BM, et al. **J Virol** 1996 Dec;70(12):8858-64

Hierarchy of Epstein-Barr virus-specific cytotoxic T-cell responses in individuals carrying different subtypes of an HLA allele: implications for epitope-based antiviral vaccines. Khanna R, et al. **J Virol** 1997 Oct;71(10):7429-35

Cytotoxic T-lymphocyte clones specific for an immunodominant epitope display discerning antagonistic response to naturally occurring Epstein-Barr virus variants. Khanna R, et al. **J Virol** 1996 Oct;70(10):7306-11

Peptide transporter (TAP-1 and TAP-2)-independent endogenous processing of Epstein-Barr virus (EBV) latent membrane protein 2A: implications for cytotoxic T-lymphocyte control of EBV-associated malignancies. Khanna R, et al. **J Virol** 1996 Aug;70(8):5357-62

Two 21-kilodalton components of the Epstein-Barr virus capsid antigen complex and their relationship to ZEBRA-associated protein p21 (ZAP21). Serio TR, et al. **J Virol** 1996 Nov;70(11):8047-54

The extracellular domain of the Epstein-Barr virus BZLF2 protein binds the HLA-DR beta chain and inhibits antigen presentation. Spriggs MK, et al. **J Virol** 1996 Aug; 70(8):5557-63

Increased incidence of anti-beta-amyloid autoantibodies secreted by Epstein-Barr virus transformed B cell lines from patients with Alzheimer's disease. Xu S, et al. **Mech Ageing Dev** 1997 Mar;94(1-3):213-22

Control of virus-induced lymphoproliferation: Epstein-Barr virus-induced lymphoproliferation and host immunity. Rooney CM, et al. **Mol Med Today** 1997 Jan;3(1):24-30 (44 ref.)

Prevalence of Epstein-Barr virus antibody in the chronic hemodialysed population in the south of the Reunion Island [letter] Guiserix J, et al. **Nephron** 1996;74(2):475

Activated T lymphocytes in the cerebrospinal fluid of a patient with Epstein-Barr virus-associated meningoencephalitis. Lehrnbecher T, et al. **Pediatr Infect Dis J** 1996 Jul;15(7):631-3

Influence of Quillaja saponaria triterpenoid content on the immunomodulatory capacity of Epstein-Barr virus iscoms. Dotsika E, et al. **Scand J Immunol** 1997 Mar;45(3):261-8

Immune selection and virus evolution: be cautious of paradigms [letter] Daenke S. **Trends Microbiol** 1997 Mar; 5(3):92-3 (6 ref.)

Regulation of Epstein-Barr virus latency by latent membrane protein 2. Longnecker R, et al. **Trends Microbiol** 1996 Jan; 4(1):38-42 (59 ref.)

Antigenic variation of the Epstein-Barr virus nuclear antigen EBNA1 as revealed by monoclonal antibodies. Iwakiri D, et al. **Virus Res** 1997 Aug;50(2):139-49

The Epstein-Barr virus (EBV) alters the B cell glycolipid which is recognized by the human monoclonal antibody to i-blood group antigen. Nagatsuka Y, et al. **Virus Res** 1996 Jul;43(1):57-68

[Cutaneous and neurologic vasculitis disclosing EBV-selective immunodeficiency] Grosieux C, et al. **Ann Der.natol Venereol** 1996;123(6-7):387-92 (Eng. Abstr.) **(Fre)**

[Value of Epstein-Barr virus serology during radiotherapy of undifferentiated carcinoma of the nasopharynx (letter)] Yomi J, et al. **Bull Cancer Radiother** 1996;83(3):168-9 **(Fre)**

[The TRAF family protein-mediated B cell proliferation signal and the mechanism of LMP1-induced B cell transformation] Inoue J. **Nippon Rinsho** 1997 Feb; 55(2):299-304 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Regulation of apoptosis by the latent infection membrane protein 1 of Epstein-Barr virus] Kawanishi M. **Nippon Rinsho** 1997 Feb;55(2):305-10 (20 ref.) (Eng. Abstr.) **(Jpn)**

[Interaction between Epstein-Barr virus (EBV) gene expression and antibodies to EBV in nasopharyngeal carcinomas] Furukawa M, et al. **Rinsho Byori** 1996 Sep; 44(9):832-7 (Eng. Abstr.) **(Jpn)**

[The Epstein-Barr virus in patients with infectious endocarditis] Zhiburt EB, et al. **Ter Arkh** 1997;69(4):42-3 (Eng. Abstr.) **(Rus)**

[Mononucleosis syndromes with serology doubly positive to Epstein-Barr virus and cytomegalovirus] Sánchez Echániz J, et al. **An Esp Pediatr** 1996 Sep;45(3):242-4 (Eng. Abstr.) **(Spa)**

[Evaluation of a reagent for the diagnosis of Epstein-Barr virus infection (letter)] de Ory F. **Enferm Infecc Microbiol Clin** 1996 Oct;14(8):506-7 **(Spa)**

ISOLATION & PURIFICATION

Direct detection of Epstein-Barr viral antigen in nasopharyngeal swabs from patients with infectious mononucleosis. Bills ND, et al. **Acad Emerg Med** 1996 Aug; 3(8):776-81

Genital viral infections. Studies on human papillomavirus and Epstein-Barr virus. Voog E. **Acta Derm Venereol Suppl (Stockh)** 1996;198:1-55 (232 ref.)

Lymphotropic virus infection of peripheral blood mononuclear cells in B-cell non-Hodgkin's lymphoma. Ferri C, et al. **Acta Haematol** 1997;98(2):89-94

Immunological role of human palatine tonsil in Epstein-Barr virus persistence. Hirao M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;523:158-60

Elevated levels of soluble Fc epsilon RII/CD23 and antibodies to Epstein-Barr virus in patients with Sjögren's syndrome. Suzuki M, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:108-12

Atypical Epstein-Barr virus infection during and after intermittent FK506 therapy. Azuma H, et al. **Acta Paediatr Jpn** 1997 Apr;39(2):222-5

Diagnostic importance of heterophile antibodies and immunoglobulins IgA, IgE, IgM and low-avidity IgG against Epstein-Barr virus capsid antigen in children. Votava M, et al. **Acta Virol** 1996 Apr;40(2):99-101

Risk factors associated with Epstein-Barr virus replication in oral epithelial cells of HIV-infected individuals. Boulter AW, et al. **AIDS** 1996 Aug;10(9):935-40

Human papillomavirus and Epstein-Barr virus in sinonasal Schneiderian papillomas. An in situ hybridization and polymerase chain reaction study. Gaffey MJ, et al. **Am J Clin Pathol** 1996 Oct;106(4):475-82

Aggressive natural killer cell lymphoproliferative disorder associated with Epstein-Barr viral RNA. Hirose Y, et al. **Am J Hematol** 1997 Apr;54(4):314-20

Clonal lymphoproliferation following chronic active Epstein-Barr virus infection and hypersensitivity to mosquito bites. Ishihara S, et al. **Am J Hematol** 1997 Apr; 54(4):276-81

Production of the immunosuppressive cytokine interleukin-10 by Epstein-Barr-virus-expressing pyothorax-associated lymphoma: possible role in the development of overt lymphoma in immunocompetent hosts. Kanno H, et al. **Am J Pathol** 1997 Jan;150(1):349-57

Detection of Epstein-Barr virus-infected mucosal lymphocytes in nasal polyps. Tao Q, et al. **Am J Pathol** 1996 Oct;149(4):1111-8

Human herpesvirus 6 and Epstein-Barr virus in Hodgkin's disease: a controlled study by polymerase chain reaction and in situ hybridization. Valente G, et al. **Am J Pathol** 1996 Nov;149(5):1501-10

Association of Epstein-Barr virus (EBV) with Sjögren's syndrome: differential EBV expression between epithelial cells and lymphocytes in salivary glands. Wen S, et al. **Am J Pathol** 1996 Nov;149(5):1511-7

EBV in follicular dendritic cells [letter] Arber DA, et al. **Am J Surg Pathol** 1996 Nov;20(11):1426-7

A nodal gamma/delta T-cell lymphoma with an association of Epstein-Barr virus. Kagami Y, et al. **Am J Surg Pathol** 1997 Jun;21(6):729-36

Cystic smooth-muscle tumor of the liver and spleen associated with Epstein-Barr virus after renal transplantation. Le Bail B, et al. **Am J Surg Pathol** 1996 Nov;20(11):1418-25

Epstein-Barr virus-associated persistent polyclonal B-cell lymphocytosis with a distinct 69-base pair deletion in the LMP1 oncogene. Larcher C, et al. **Ann Hematol** 1997 Jan; 74(1):23-8

Integration of Epstein-Barr virus in Burkitt's lymphoma cells leads to a region of enhanced chromosome instability. Jox A, et al. **Ann Oncol** 1997;8 Suppl 2:131-5

Characteristics of human EBV-specific cytotoxic T lymphocytes utilized for adoptive immunotherapy of EBV-induced lymphoproliferations in xenografted SCID mice. Lacerda JF, et al. **Ann Oncol** 1997;8 Suppl 2:137-40

Pathogenesis of gastric lymphoma: the enigma in Hong Kong. Xu WS, et al. **Ann Oncol** 1997;8 Suppl 2:41-4

Nasopharyngeal carcinoma, with emphasis on its relationship to Epstein-Barr virus. Vasef MA, et al. **Ann Otol Rhinol Laryngol** 1997 Apr;106(4):348-56 (109 ref.)

Kaposi sarcoma-associated herpesvirus/human herpesvirus type 8 and Epstein-Barr virus in iatrogenic Kaposi sarcoma [letter] Henghold WB 2nd, et al. **Arch Dermatol** 1997 Jan; 133(1):109-11

Analysis of apoptosis morphology in Epstein-Barr virus positive and negative Burkitt's lymphoma cells. Ishii H, et al. **Arch Histol Cytol** 1997 Jun;60(2):143-52

Epstein-Barr virus--Associated hemophagocytic syndrome. A cause of fever of unknown origin in human immunodeficiency virus infection. Albrecht H, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):853-8

Latent Epstein-Barr virus infection demonstrated in low-grade leiomyosarcomas of adults with acquired immunodeficiency syndrome, but not in adjacent Kaposi's lesion or smooth muscle tumors in immunocompetent patients. Boman F, et al. **Arch Pathol Lab Med** 1997 Aug; 121(8):834-8

Detection of Epstein-Barr viral DNA in serum using rapid-cycle PCR. Mouritsen CL, et al. **Biochem Mol Med** 1997 Apr;60(2):161-8

Epstein-Barr virus strains with latent membrane protein-1 deletions: prevalence in the Italian population and high association with human immunodeficiency virus-related Hodgkin's disease. Dolcetti R, et al. **Blood** 1997 Mar 1; 89(5):1723-31

Epstein-Barr virus latent gene expression in primary effusion lymphomas containing Kaposi's sarcoma-associated herpesvirus/human herpesvirus-8. Horenstein MG, et al. **Blood** 1997 Aug 1;90(3):1186-91

Molecular profile of Epstein-Barr virus in human immunodeficiency virus type 1-related lymphadenopathies and lymphomas. Ometto L, et al. **Blood** 1997 Jul 1; 90(1):313-22

Primary non-Hodgkin's lymphoma of the intestine: high prevalence of Epstein-Barr virus in Mexican lymphomas as compared with European cases. Quintanilla-Martínez L, et al. **Blood** 1997 Jan 15;89(2):644-51

Absence of cytomegalovirus and Epstein-Barr virus expression in labial salivary glands of patients with chronic graft-versus-host disease. Mariette X, et al. **Bone Marrow Transplant** 1996 Apr;17(4):607-10

Detection of Epstein-Barr virus in primary cutaneous amyloidosis. Chang YT, et al. **Br J Dermatol** 1997 Jun; 136(6):823-6

Primary cutaneous T-cell lymphoma with an angiocentric growth pattern: association with Epstein-Barr virus. Misago N, et al. **Br J Dermatol** 1996 Oct;135(4):638-43

Association between Epstein-Barr virus and Burkitt's lymphoma in Taiwan. Chao TY, et al. **Cancer** 1997 Jul 1;80(1):121-8

Tumor specific Epstein-Barr virus infection is not associated with leiomyosarcoma in human immunodeficiency virus negative individuals. Hill MA, et al. **Cancer** 1997 Jul 15; 80(2):204-10

Undifferentiated carcinoma of the major salivary glands. Sheen TS, et al. **Cancer** 1997 Aug 1;80(3):357-63

Lymphoepithelioma-like carcinoma of the uterine cervix: association with Epstein-Barr virus and human papillomavirus. Tseng CJ, et al. **Cancer** 1997 Jul 1; 80(1):91-7

Primary lymphoepithelioma-like carcinoma of the lung in a child. Report of an Epstein-Barr virus-related neoplasm. Curcio LD, et al. **Chest** 1997 Jan;111(1):250-1

Comparative evaluation of three ELISA techniques and an indirect immunofluorescence assay for the serological diagnosis of Epstein-Barr virus infection. Debyser Z, et al. **Clin Diagn Virol** 1997 May;8(1):71-81

Evaluation of six commercially available kits using purified heterophile antigen for the rapid diagnosis of infectious mononucleosis compared with Epstein-Barr virus-specific serology. Elgh F, et al. **Clin Diagn Virol** 1996 Oct; 7(1):17-21

Rapid occurrence of lymphoproliferative disease after pancreas-kidney transplantation performed during acute primary Epstein-Barr virus infection. Kroes AC, et al. **Clin Infect Dis** 1997 Mar;24(3):339-43

Diffuse pneumonia associated with infectious mononucleosis: detection of Epstein-Barr virus in lung tissue by in situ hybridization. Sriskandan S, et al. **Clin Infect Dis** 1996 Mar; 22(3):578-9

Epstein-Barr virus suspension cell assay using in situ hybridization and flow cytometry. Crouch J, et al. **Cytometry** 1997 Sep 1;29(1):50-7

A search for evidence of viral infection in pancreases of newly diagnosed patients with IDDM. Foulis AK, et al. **Diabetologia** 1997 Jan;40(1):53-61

The Epstein-Barr virus in malignant non-Hodgkin's lymphoma of the upper aerodigestive tract. Ott G, et al. **Diagn Mol Pathol** 1997 Jun;6(3):134-9

Absence of Epstein-Barr virus (EBV) in a gastrointestinal stromal cell tumour (GIST) in an adult human immunodeficiency virus-seropositive patient with past EBV infection. Kubben FJ, et al. **Eur J Gastroenterol Hepatol** 1997 Jul;9(7):721-4

Undetected viral infection in diffuse alveolar damage associated with bone marrow transplantation [see comments] Barberà JA, et al. **Eur Respir J** 1996 Jun; 9(6):1195-200. Comment in: Eur Respir J 1996 Jun;9(6):1115-7.

DNA viruses in the pathogenesis of sporadic chronic idiopathic intestinal pseudo-obstruction. Debinski HS, et al. **Gut** 1997 Jul;41(1):100-6

Survey of sinonasal inverted papillomata for Epstein-Barr virus. Dunn ST, et al. **Head Neck** 1997 Mar;19(2):98-106 (65 ref.)

Occurrence of multiple lymphoepithelioma-like carcinomas and MALT-type lymphoma in the stomach: detection of EBV in carcinomas but not in lymphoma. Greiner A, et al. **Histopathology** 1996 Jul;29(1):51-6

Nasal and nasal-type T/NK cell lymphoma: a unique form of lymphoma associated with the Epstein-Barr virus [comment] Jaffe ES. **Histopathology** 1995 Dec;27(6):581-3 . Comment on: Histopathology 1995 Aug;27(2):139-48.

Inconsistent association of Epstein-Barr virus with CD56 (NCAM)-positive angiocentric lymphoma occuring in sites other than the upper and lower respiratory tract. Kobashi Y, et al. **Histopathology** 1996 Feb;28(2):111-20

Lymphoepithelioma-like salivary gland carcinoma in Taiwan: a clinicopathological study of nine cases demonstrating a strong association with Epstein-Barr virus. Kuo T, et al. **Histopathology** 1997 Jul;31(1):75-82 (22 ref.)

Epstein-Barr virus-associated primary gastrointestinal lymphoma in non-immunocompromised patients in Korea. Lee SS, et al. **Histopathology** 1997 Mar;30(3):234-42

An Epstein-Barr virus positive undifferentiated carcinoma in the lacrimal sac. Leung SY, et al. **Histopathology** 1996 Jan;28(1):71-5

Lymphomatoid granulomatosis: evidence that some cases represent Epstein-Barr virus-associated B-cell lymphoma. Nicholson AG, et al. **Histopathology** 1996 Oct;29(4):317-24

Epstein-Barr virus (EBV) and Hodgkin's disease in a multi-ethnic population in Malaysia. Peh SC, et al. **Histopathology** 1997 Mar;30(3):227-33

The malignant lymphomas of Kenya: morphology, immunophenotype, and frequency of Epstein-Barr virus in 73 cases. Cool CD, et al. **Hum Pathol** 1997 Sep; 28(9):1026-33

Increasing evidence that Epstein-Barr virus may be involved in the pathogenesis of undifferentiated carcinoma of the salivary glands [letter] Gallo O. **Hum Pathol** 1996 Dec; 27(12):1381

Primary plasmacytoma of lymph nodes. Lin BT, et al. **Hum Pathol** 1997 Sep;28(9):1083-90

Posttransplant lymphoproliferative disorder in liver allograft biopsies: a comparison of three methods for the demonstration of Epstein-Barr virus. Lones MA, et al. **Hum Pathol** 1997 May;28(5):533-9

Lymphoepithelial carcinoma of the larynx and hypopharynx: study of eight cases with relationship to Epstein-Barr virus and p53 gene alterations, and review of the literature. MacMillan C, et al. **Hum Pathol** 1996 Nov;27(11):1172-9 (44 ref.)

Extranodal head and neck lymphomas in Guatemala: high frequency of Epstein-Barr virus-associated sinonasal lymphomas. van de Rijn M, et al. **Hum Pathol** 1997 Jul; 28(7):834-9

A study of the possible etiologic association of Epstein-Barr virus with reactive hemophagocytic syndrome in Hong Kong Chinese. Wong KF, et al. **Hum Pathol** 1996 Nov; 27(11):1239-42

Epstein-Barr virus (herpesvirus 4) types A, B and herpesvirus-6 variants A and B in patients presenting with recurrent upper respiratory inflammation, persistent paravertebral thoraco-lumbar muscle spasm and fatigue by polymerase chain reaction (PCR). McGuire T, et al. **In Vivo** 1997 Jan-Feb;11(1):23-8

Expression of CD44 variants in gastric carcinoma with or without Epstein-Barr virus. Chong JM, et al. **Int J Cancer** 1997 Aug 22;74(4):450-4

Lack of correlation between EBV serology and presence of EBV in the Hodgkin and Reed-Sternberg cells of patients with Hodgkin's disease. Enblad G, et al. **Int J Cancer** 1997 Jul 29;72(3):394-7

Epstein-Barr virus in lymphoproliferative diseases in the sino-nasal region: close association with CD56+ immunophenotype and polymorphic-reticulosis morphology. Tomita Y, et al. **Int J Cancer** 1997 Jan 6; 70(1):9-13

Interleukin-10 expression and cytotoxic-T-cell response in Epstein-Barr-virus-associated nasopharyngeal carcinoma. Yao M, et al. **Int J Cancer** 1997 Jul 29;72(3):398-402

In the absence of Epstein-Barr virus infection, phorbol ester modulates apoptosis in cycloheximide-treated Burkitt's lymphoma (BJA-B) cells. Ishii H, et al. **Int J Exp Pathol** 1997 Jun;78(3):123-31

Differential expression of EBER1 in nontumor nasopharyngeal biopsies and nontumor component of nasopharyngeal carcinoma. Chen CL, et al. **Intervirology** 1996;39(4):230-5

Multiplex PCR for diagnosis of AIDS-related central nervous system lymphoma and toxoplasmosis. Roberts TC, et al. **J Clin Microbiol** 1997 Jan;35(1):268-9

Use of quantitative competitive PCR to measure Epstein-Barr virus genome load in the peripheral blood of pediatric transplant patients with lymphoproliferative disorders. Rowe DT, et al. **J Clin Microbiol** 1997 Jun; 35(6):1612-5

Clonality of Epstein-Barr virus in lymphoproliferative disorders in patients treated with immunosuppressive therapy for rheumatoid arthritis [letter; comment] van de Rijn M, et al. **J Clin Oncol** 1996 Nov;14(11):3050-1. Comment on: J Clin Oncol 1996 Jun;14(6):1943-9.

Kawasaki disease, Epstein-Barr virus and coronary artery aneurysms. Culora GA, et al. **J Clin Pathol** 1997 Feb; 50(2):161-3

In situ detection of PCR-amplified HIV-1 and EBV nucleic acids in hyperplastic lymph nodes and in AIDS-related lymphoma. Becker JL, et al. **J Histochem Cytochem** 1996 Oct;44(10):1085-9

High incidence of Kaposi's sarcoma-associated herpesvirus and Epstein-Barr virus in tumor lesions and peripheral blood mononuclear cells from patients with Kaposi's sarcoma in Uganda. Purvis SF, et al. **J Infect Dis** 1997 Apr;175(4):947-50

Epstein-Barr virus and human herpesvirus 8 prevalence in human immunodeficiency virus-associated oral mucosal lesions. Webster-Cyriaque J, et al. **J Infect Dis** 1997 Jun; 175(6):1324-32

Histiocytic necrotizing lymphadenitis. A clinico-pathologic study of 45 cases with in situ hybridization for Epstein-Barr virus and hepatitis B virus. Cho KJ, et al. **J Korean Med Sci** 1996 Oct;11(5):409-14

Manifestations of relapsing Epstein-Barr virus illness. Simon MW. **J Ky Med Assoc** 1997 Jun;95(6):240-3

Prevalence of human papillomavirus, cytomegalovirus, and Epstein-Barr virus in the cervix of healthy women. Gradilone A, et al. **J Med Virol** 1996 Sep;50(1):1-4

ELISA for the detection of serum and saliva IgA against the BMRF1 gene product of Epstein-Barr virus. Nadala EC, et al. **J Med Virol** 1996 Sep;50(1):93-6

Epstein-Barr virus-associated dural leiomyosarcoma in a man infected with human immunodeficiency virus. Case report. Morgello S, et al. **J Neurosurg** 1997 May; 86(5):883-7

Search for herpesvirus DNA in cerebrospinal fluid of HIV patients with brain disorders: prevalence of cytomegalovirus DNA findings. Portolani M, et al. **J Neurovirol** 1997 Jun;3(3):192-6

Clinicopathological, immunological and genetic studies of CD30+ anaplastic large cell lymphoma of B-cell type; association with Epstein-Barr virus in a Japanese population. Kuze T, et al. **J Pathol** 1996 Nov;180(3):236-42

IgH and TcR-gamma gene rearrangements identified in Hodgkin's disease by PCR demonstrate lack of correlation between genotype, phenotype, and Epstein-Barr virus status. Al Saati T, et al. **J Pathol** 1997 Apr;181(4):387-93

Role of Epstein-Barr virus in tumor development [letter] Yunis EJ. **J Pediatr** 1996 Mar;128(3):438

Epstein-Barr virus lymphoproliferative disorder in children with leukemia: case report and review of the literature. Mustafa MM, et al. **J Pediatr Hematol Oncol** 1997 Jan-Feb; 19(1):77-81

Spontaneous establishment of an Epstein-Barr virus-infected fibroblast line from the synovial tissue of a rheumatoid arthritis patient. Koide J, et al. **J Virol** 1997 Mar; 71(3):2478-81

Reed-Sternberg cells and "bystander" lymphocytes in lymph nodes affected by Hodgkin's disease are infected with different strains of Epstein-Barr virus. Meggetto F, et al. **J Virol** 1997 Mar;71(3):2547-9

Study of mother-to-child Epstein-Barr virus transmission by means of nested PCRs. Meyohas MC, et al. **J Virol** 1996 Oct;70(10):6816-9

Frequency of multiple Epstein-Barr virus infections in T-cell-immunocompromised individuals. Yao QY, et al. **J Virol** 1996 Aug;70(8):4884-94

Detection of latent infection by Epstein-Barr virus in peripheral blood cells of healthy individuals and in non-neoplastic tonsillar tissue from patients by reverse transcription-polymerase chain reaction. Takeuchi H, et al. **J Virol Methods** 1996 Apr 26;58(1-2):81-9

Detection of IgG antibody to Epstein-Barr virus viral capsid antigen in saliva by antibody capture radioimmunoassay. Vyse AJ, et al. **J Virol Methods** 1997 Jan;63(1-2):93-101

Evaluation of 11 enzyme immunoassays for the detection of immunoglobulin M antibodies to Epstein-Barr virus. Weber B, et al. **J Virol Methods** 1996 Mar;57(1):87-93

Infrequent overexpression of p53 protein in Epstein-Barr virus-associated gastric carcinomas. Ojima H, et al. **Jpn J Cancer Res** 1997 Mar;88(3):262-6

Detection of EBV in tumor tissue and peripheral blood by polymerase chain reaction in patients with nasopharyngeal carcinoma. Kuo WR, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1996 Nov; 12(11):613-8

Detection of Epstein-Barr virus in salivary gland specimens

from Sjögren's syndrome patients. Merne ME, et al. **Laryngoscope** 1996 Dec;106(12 Pt 1):1534–9

Detection of Epstein–Barr virus in nasopharyngeal carcinoma by in situ hybridization and polymerase chain reaction. Murono S, et al. **Laryngoscope** 1997 Apr;107(4):523–6

Absence of human herpes virus 8 DNA sequences in large granular lymphocyte (LGL) leukemia. Loughran TP Jr, et al. **Leuk Lymphoma** 1997 Jun;26(1–2):177–80

Epstein Barr virus in Argentine pediatric Hodgkin's disease. Preciado MV, et al. **Leuk Lymphoma** 1997 Jan; 24(3–4):283–90 (56 ref.)

Role of an immunosuppressive cytokine, interleukin–10, in the development of pyothorax–associated lymphoma. Kanno H, et al. **Leukemia** 1997 Apr;11 Suppl 3:525–6

EBV reactivation associated with Hodgkin's disease relapse and fatal hemophagocytic syndrome [letter] Mounier N, et al. **Leukemia** 1996 Nov;10(11):1848

Comparison between sporadic cytomegalovirus hepatitis and Epstein–Barr virus hepatitis in previously healthy adults. Watanabe S, et al. **Liver** 1997 Apr;17(2):63–9

Epstein–Barr virus in pediatric Hodgkin disease: age and histiotype are more predictive than geographic region. Razzouk BI, et al. **Med Pediatr Oncol** 1997 Apr; 28(4):248–54

Childhood Hodgkin's disease in the United States: an analysis of histologic subtypes and association with Epstein–Barr virus. Andriko JA, et al. **Mod Pathol** 1997 Apr;10(4):366–71

Burkitt's lymphoma in Brazil: strong association with Epstein–Barr virus. Bacchi MM, et al. **Mod Pathol** 1996 Jan;9(1):63–7

Correspondence re: Brandwein M, Nuovo G, Ramer M, Orlowski W, Miller L: Epstein–Barr virus reactivation in hairy leukoplakia. Mod Pathol 9:298, 1996 [letter; comment] Berean K, et al. **Mod Pathol** 1996 Aug; 9(8):869–70. Comment on: Mod Pathol 1996 Mar;9(3):298–303.

Sinonasal T–cell lymphoma in the differential diagnosis of lethal midline granuloma using in situ hybridization for Epstein–Barr virus RNA. Dictor M, et al. **Mod Pathol** 1996 Jan;9(1):7–14

CD30–positive anaplastic large cell lymphoma in childhood: expression of p80npm/alk and absence of Epstein–Barr virus. Nakagawa A, et al. **Mod Pathol** 1997 Mar;10(3):210–5

Malignant lymphoma of the adrenal gland: its possible correlation with the Epstein–Barr virus. Ohsawa M, et al. **Mod Pathol** 1996 May;9(5):534–43

The association of Epstein–Barr virus DNA with esophageal squamous cell carcinoma. Jenkins TD, et al. **Oncogene** 1996 Oct 17;13(8):1809–13

Adenolymphoma and non–Hodgkin's lymphoma of the salivary glands and oral cavity in immunocompetent patients are not associated with latent Epstein–Barr virus. Wolvius EB, et al. **Oral Oncol** 1997 Mar;33(2):119–23

Beta 2–microglobulin and HLA–DR expression in relation to the presence of Epstein–Barr virus in nasopharyngeal carcinomas. Kouvidou C, et al. **Pathobiology** 1995; 63(6):320–7

Epstein–Barr virus–associated post–transplant primary smooth muscle tumor of the liver: report of an autopsy case. Sadahira Y, et al. **Pathol Int** 1996 Aug;46(8):601–4

Epstein–Barr virus–infected lymphocytes in non–neoplastic lymph nodes of patients infected with human immunodeficiency virus. Zheng H, et al. **Pathol Int** 1997 Apr;47(4):217–21

Heterogeneity of systemic extra–nodal Epstein–Barr virus–associated lympho–histiocytic tumor—ten autopsy cases of human immunodeficiency virus–negative Japanese. Ohshima K, et al. **Pathol Res Pract** 1997;193(4):257–65

Lymphoepithelioma–like carcinoma of the lung [see comments] Wöckel W, et al. **Pathol Res Pract** 1995 Nov; 191(11):1170–4 (20 ref.). Comment in: Pathol Res Pract 1995 Nov;191(11):1175–7.

Inflammatory pseudotumor of epididymis and Epstein–Barr virus: a study of two cases. Chan KW, et al. **Pathology** 1997 Feb;29(1):100–1

Difficulties with the serologic diagnosis of infectious mononucleosis: a review of the RCPA quality assurance programs. Field PR, et al. **Pathology** 1996 Aug;28(3):270–6

Therapeutic approaches for severe Epstein–Barr virus infection. Okano M. **Pediatr Hematol Oncol** 1997 Mar–Apr; 14(2):109–19 (44 ref.)

Epstein–Barr virus–associated malignant lymphoma with macroamylasemia and monoclonal gammopathy in a patient with Wiskott–Aldrich syndrome. Yoshida K, et al. **Pediatr Hematol Oncol** 1997 Jan–Feb;14(1):85–9

Epstein–Barr virus PCR correlated with viral histology and serology in pediatric liver transplant patients. Rogers BB, et al. **Pediatr Pathol Lab Med** 1997 May–Jun;17(3):391–400

Compact Epstein–Barr virus diagnosis based on a defined antigen mix and specific IgA. Dopatka HD, et al. **Res Virol** 1996 Jan–Feb;147(1):53–66

Clinical and immunological considerations in Epstein–Barr virus–associated diseases. Andersson J. **Scand J Infect Dis Suppl** 1996;100:72–82 (36 ref.)

Diagnosis of Epstein–Barr virus–related diseases. Linde A. **Scand J Infect Dis Suppl** 1996;100:83–8 (46 ref.)

Non–Hodgkin's lymphomas complicating Sjögren's syndrome: can Epstein Barr virus be implicated? Jeffers M, et al. **Scand J Rheumatol** 1997;26(3):180–3

Epstein–Barr virus associated graft failure following heart/lung transplantation. Egan JJ, et al. **Thorax** 1996 Nov;51(11):1160–2; discussion 1164–5

Epstein–Barr virus DNA in serum after liver transplantation—surveillance of viral activity during treatment with different immunosuppressive agents. Barkholt LM, et al. **Transpl Int** 1996;9(5):439–45

Use of quantitative PCR to predict onset of Epstein–Barr viral infection and post–transplant lymphoproliferative disease after intestinal transplantation in children. Green M, et al. **Transplant Proc** 1996 Oct;28(5):2759–60

Detection of Epstein–Barr virus DNA in gastric carcinoma with lymphoid stroma. Jing X, et al. **Viral Immunol** 1997; 10(1):49–58 (23 ref.)

Epstein–Barr virus (EBV) infection in salivary gland tumors: lytic EBV infection in nonmalignant epithelial cells surrounded by EBV–positive T–lymphoma cells. Wen S, et al. **Virology** 1997 Jan 20;227(2):484–7

Detection of Epstein–Barr Virus DNA in well and poorly differentiated nasopharyngeal carcinoma cell lines. Teng ZP, et al. **Virus Genes** 1996;13(1):53–60

Evaluation of a new Epstein–Barr virus Combi Test for rapid serologic diagnosis of infectious mononucleosis. Dobec M, et al. **Zentralbl Bakteriol** 1996 Aug;284(4):565–76

[Serologic signs of Epstein–Barr–virus infections in various patients without infectious mononucleosis] Ternák G, et al. **Orv Hetil** 1996 Jul 28;137(30):1633–6 (Eng. Abstr.) **(Hun)**

[Epstein–Barr virus infection and lymphoproliferative disorders in patients after renal transplantation] Merlino C, et al. **Minerva Urol Nefrol** 1996 Sep;48(3):139–43 (Eng. Abstr.) **(Ita)**

[EBV–related stomach cancer and HLA] Akiba S, et al. **Nippon Rinsho** 1997 Feb;55(2):386–90 (14 ref.) (Eng. Abstr.) **(Jpn)**

[Immunophenotype of nasal T–cell lymphoma] Eizuru Y, et al. **Nippon Rinsho** 1997 Feb;55(2):400–3 (10 ref.) (Eng. Abstr.) **(Jpn)**

[Detection of Epstein–Barr virus genomes in nasopharyngeal carcinoma] Furukawa M, et al. **Nippon Rinsho** 1997 Feb; 55(2):346–9 (Eng. Abstr.) **(Jpn)**

[Clinical, phenotypic and genotypic aspects of nasal T–cell lymphoma and its causal association with Epstein–Barr virus] Harabuchi Y, et al. **Nippon Rinsho** 1997 Feb; 55(2):394–9 (18 ref.) (Eng. Abstr.) **(Jpn)**

[Virological studies on Epstein–Barr virus–positive gastric carcinoma] Imai S. **Nippon Rinsho** 1997 Feb;55(2):368–73 (29 ref.) (Eng. Abstr.) **(Jpn)**

[Clinicopathology of Epstein–Barr virus–related gastric carcinoma] Itoh T, et al. **Nippon Rinsho** 1997 Feb; 55(2):363–7 (13 ref.) (Eng. Abstr.) **(Jpn)**

[Pyothorax–associated lymphoma: EBV–positive lymphoma developing in immunocompetent patients] Kanno H, et al. **Nippon Rinsho** 1997 Feb;55(2):436–40 (17 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical characteristics of Epstein–Barr virus–associated natural killer cell lymphoma/leukemia] Kawa K. **Nippon Rinsho** 1997 Feb;55(2):424–8 (8 ref.) (Eng. Abstr.) **(Jpn)**

[EBV–associated lymphoma] Mori S, et al. **Nippon Rinsho** 1997 Feb;55(2):391–3 (5 ref.) (Eng. Abstr.) **(Jpn)**

[EBV–related malignancies and thioredoxin] Noda N, et al. **Nippon Rinsho** 1997 Feb;55(2):461–6 (24 ref.) (Eng. Abstr.) **(Jpn)**

[Nasopharyngeal carcinoma: present and future] Ooka T. **Nippon Rinsho** 1997 Feb;55(2):334–45 (32 ref.) (Eng. Abstr.) **(Jpn)**

[Expression of Epstein–Barr virus in mesopharyngeal and hypopharyngeal as well as nasopharyngeal carcinomas] Shimakage M, et al. **Nippon Rinsho** 1997 Feb;55(2):350–6 (Eng. Abstr.) **(Jpn)**

[Epstein–Barr virus and human cancer] Takada K. **Nippon Rinsho** 1997 Feb;55(2):282–4 **(Jpn)**

[Localization of 8q24 break–point of Burkitt lymphoma in Japan : relationship to EBV status] Tatsumi E, et al. **Nippon Rinsho** 1997 Feb;55(2):429–35 (21 ref.) (Eng. Abstr.) **(Jpn)**

[Diagnosis of Epstein–Barr virus–associated gastric carcinoma and its background gastric mucosa] Yanai H, et al. **Nippon Rinsho** 1997 Feb;55(2):374–80 (31 ref.) (Eng. Abstr.) **(Jpn)**

[A quantitative analysis of the cells infected with Epstein–Barr virus in the peripheral blood mononuclear cells derived from the patients with infectious mononucleosis] Arai T, et al. **Rinsho Byori** 1996 Sep; 44(9):853–9 (Eng. Abstr.) **(Jpn)**

[In situ detection of Epstein–Barr virus in the non–neoplastic gastric glands and infiltrated lymphocytes] Sasaki Y, et al. **Rinsho Byori** 1996 Dec;44(12):1196–200 (Eng. Abstr.) **(Jpn)**

[A case of gastric lymphoma in the course of Epstein–Barr virus infection] Radwan P, et al. **Pol Tyg Lek** 1996 Apr; 51(14–18):237–8 (Eng. Abstr.) **(Pol)**

[Method of diagnosis of Epstein–Barr virus infection] Zhiburt EB, et al. **Vopr Virusol** 1996 Jul–Aug;41(4):185–7 (Eng. Abstr.) **(Rus)**

[Undifferentiated gastric carcinoma of lymphoepithelioma type with Epstein–Barr virus] Blasco J, et al. **Medicina (B Aires)** 1996;56(3):287–90 (Eng. Abstr.) **(Spa)**

METABOLISM

Absence of IL–6 receptor expression in fresh childhood Burkitt's lymphoma cells and induction of IL–6 receptors by Epstein–Barr virus in vitro. Tomeczkowski J, et al. **Br J Haematol** 1997 May;97(2):400–8

Localization of the major NF–kappaB–activating site and the sole TRAF3 binding site of LMP–1 defines two distinct signaling motifs. Brodeur SR, et al. **J Biol Chem** 1997 Aug 8;272(32):19777–84

Role of the EBNA–1 protein in pausing of replication forks in the Epstein–Barr virus genome. Ermakova OV, et al. **J Biol Chem** 1996 Dec 20;271(51):33009–17

Epstein–Barr virus binding to CD21 activates the initial viral promoter via NF–kappaB induction. Sugano N, et al. **J Exp Med** 1997 Aug 29;186(5):731–7

The processing, transport and heterologous expression of Epstein–Barr virus gp110. Papworth MA, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2179–89

Both A type and B type Epstein–Barr virus nuclear antigen 6 interact with RBP–2N. Young DB, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1671–4

Differential tumorigenicity between Epstein–Barr virus genome–positive and genome–negative cell lines with t(11;14)(q13;q32) derived from mantle cell lymphoma. Daibata M, et al. **J Virol** 1996 Dec;70(12):9003–7

Comparative analysis identifies conserved tumor necrosis factor receptor–associated factor 3 binding sites in the human and simian Epstein–Barr virus oncogene LMP1. Franken M, et al. **J Virol** 1996 Nov;70(11):7819–26

Epstein–Barr virus latent membrane protein 1 blocks p53–mediated apoptosis through the induction of the A20 gene. Fries KL, et al. **J Virol** 1996 Dec;70(12):8653–9

Epstein–Barr virus immortalization: Notch2 interacts with CBF1 and blocks differentiation. Hsieh JJ, et al. **J Virol** 1997 Mar;71(3):1938–45

Cell cycle stage–specific phosphorylation of the Epstein–Barr virus immortalization protein EBNA–LP. Kitay MK, et al. **J Virol** 1996 Nov;70(11):7885–93

Epstein–Barr virus LMP1 induction of the epidermal growth factor receptor is mediated through a TRAF signaling pathway distinct from NF–kappaB activation. Miller WE, et al. **J Virol** 1997 Jan;71(1):586–94

Epstein–Barr virus leader protein enhances EBNA–2–mediated transactivation of latent membrane protein 1 expression: a role for the W1W2 repeat domain. Nitsche F, et al. **J Virol** 1997 Sep;71(9):6619–28

Epstein–Barr virus infection of human gastric carcinoma cells: implication of the existence of a new virus receptor different from CD21. Yoshiyama H, et al. **J Virol** 1997 Jul;71(7):5688–91

The cellular YY1 transcription factor binds a cis–acting, negatively regulating element in the Epstein–Barr virus BRLF1 promoter. Zalani S, et al. **J Virol** 1997 Apr; 71(4):3268–74

Functional and physical interactions between the Epstein–Barr virus (EBV) proteins BZLF1 and BMRF1: Effects on EBV transcription and lytic replication. Zhang Q, et al. **J Virol** 1996 Aug;70(8):5131–42

Expression of bcl–2 and Epstein–Barr virus LMP1 in lymphocytic interstitial pneumonia. Kaan PM, et al. **Thorax** 1997 Jan;52(1):12–6

High concentration of the EBV latent membrane protein 1 in glycosphingolipid–rich complexes from both epithelial and lymphoid cells. Clausse B, et al. **Virology** 1997 Feb 17;228(2):285–93

Increased incorporation of chimeric human immunodeficiency virus type 1 gp120 proteins into Pr55gag virus–like particles by an Epstein–Barr virus gp220/350–derived transmembrane domain. Deml L, et al. **Virology** 1997 Aug 18;235(1):10–25

Epstein–Barr nuclear antigen–3 and –4 interact with RBP–2N, a major isoform of RBP–J kappa in B lymphocytes. Krauer KG, et al. **Virology** 1996 Dec 15; 226(2):346–53

Epstein–Barr virus single–stranded DNA–binding protein: purification, characterization, and action on DNA synthesis by the viral DNA polymerase. Tsurumi T, et al. **Virology** 1996 Aug 15;222(2):352–64

EBV binds to lymphocytes of transgenic mice that express the human CR2 gene. Kearns–Jonker M, et al. **Virus Res** 1997 Jul;50(1):85–94

PATHOGENICITY

Epstein–Barr virus. A serial killer or an innocent bystander? [editorial; comment] Sangüeza OP. **Arch Dermatol** 1997 Sep;133(9):1156–7 (17 ref.). Comment on: Arch Dermatol 1997 Sep;133(9):1081–6.

Epstein–Barr virus and familial Hodgkin's disease. Lin AY, et al. **Blood** 1996 Oct 15;88(8):3160–5

Pathogenesis of chronic Epstein–Barr virus infection: detection of a virus strain with a high rate of lytic replication. Jäger M, et al. **Br J Haematol** 1996 Dec; 95(4):626–36

Epstein–Barr virus oncogenesis. Knecht H, et al. **Crit Rev Oncol Hematol** 1997 Jul;26(2):117–35 (263 ref.)

Sensitivity of Epstein–Barr virus–induced B cell tumor to apoptosis mediated by anti–CD95/Apo–1/fas antibody. Durandy A, et al. **Eur J Immunol** 1997 Feb;27(2):538–43

EBV–specific cytotoxic T lymphocytes protect against human EBV–associated lymphoma in scid mice. Buchsbaum RJ, et al. **Immunol Lett** 1996 Sep; 52(2–3):145–52

Apoptosis, proliferative activity and Bcl–2 expression in Epstein–Barr–virus–positive non–Hodgkin's lymphomas. Takano Y, et al. **J Cancer Res Clin Oncol** 1997; 123(7):395–401

Epstein-Barr virus uses HLA class II as a cofactor for infection of B lymphocytes. Li Q, et al. **J Virol** 1997 Jun; 71(6):4657–62

Effects of CD40 stimulation in the prevention of human EBV-lymphomagenesis. Funakoshi S, et al. **Leuk Lymphoma** 1997 Jan;24(3–4):187–99 (32 ref.)

Post-transplant EBV induced lymphoproliferative disorders. Lucas KG, et al. **Leuk Lymphoma** 1997 Mar;25(1–2):1–8 (68 ref.)

Interactions involving cyclosporine A, interleukin-6, and Epstein-Barr virus lead to the promotion of B-cell lymphoproliferative disease. Tanner JE, et al. **Leuk Lymphoma** 1996 May;21(5–6):379–90 (77 ref.)

Epstein-Barr virus (EBV)-associated hepatic and splenic smooth muscle tumours after kidney transplantation. Morel D, et al. **Nephrol Dial Transplant** 1996 Sep;11(9):1864–6

Latent infection with Epstein-Barr virus in odontogenic disorders: comparison among ameloblastoma, dentigerous cyst and odontogenic keratocyst. Fujita S, et al. **Pathol Int** 1997 Jul;47(7):449–53

Malignant lymphoma induction of rabbits with oral spray of Epstein-Barr virus-related herpesvirus from Si-IIA cells (HTLV-II-transformed Cynomolgus cell line): a possible animal model for Epstein-Barr virus infection and subsequent virus-related tumors in humans. Koirala TR, et al. **Pathol Int** 1997 Jul;47(7):442–8

[Oncogenic mechanisms of Epstein-Barr virus] Herrero JA. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):551–60 (132 ref.) **(Spa)**

[Clinical polymorphism in Epstein-Barr virus infection] Martínez Aguilar NE, et al. **Rev Alerg Mex** 1997 Mar-Apr; 44(2):45–50 (Eng. Abstr.) **(Spa)**

PHYSIOLOGY

Malignant lymphoma induction in rabbits by oral inoculation of crude virus fraction prepared from Ts-B6 cells (cynomolgus B-lymphoblastoid cells harboring Epstein-Barr virus-related simian herpesvirus). Chen HL, et al. **Acta Med Okayama** 1997 Jun;51(3):141–7

Variable expression of Epstein-Barr virus latent membrane protein I in Reed-Sternberg cells of Hodgkin's disease. Teramoto N, et al. **Acta Med Okayama** 1996 Oct; 50(5):267–70

Synergy between human immunodeficiency virus type 1 and Epstein-Barr virus in T lymphoblastoid cell lines. Zhang RD, et al. **AIDS Res Hum Retroviruses** 1997 Jan 20; 13(2):161–71

The mechanism of Epstein-Barr virus infection in nasopharyngeal carcinoma cells. Lin CT, et al. **Am J Pathol** 1997 May;150(5):1745–56

Follicular dendritic cell tumor of the liver. Evidence for an Epstein-Barr virus-related clonal proliferation of follicular dendritic cells. Shek TW, et al. **Am J Surg Pathol** 1996 Mar;20(3):313–24 (45 ref.)

In vivo growth of Epstein-Barr virus transformed B cells with mutations in latent membrane protein 2 (LMP2). Rochford R, et al. **Arch Virol** 1997;142(4):707–20

Epstein-Barr virus modulates 5-lipoxygenase product synthesis in human peripheral blood mononuclear cells. Gosselin J, et al. **Blood** 1997 Mar 15;89(6):2122–30

Isolation and characterization of transformed human T-cell lines infected by Epstein-Barr virus. Groux H, et al. **Blood** 1997 Jun 15;89(12):4521–30

Virus-cell interactions in a natural killer-like cell line from a patient with lymphoblastic lymphoma. Kanegane H, et al. **Blood** 1996 Dec 15;88(12):4667–75

Strict lymphotropism of Epstein-Barr virus during acute infectious mononucleosis in nonimmunocompromised individuals. Karajannis MA, et al. **Blood** 1997 Apr 15; 89(8):2856–62

Evidence that the expression and phosphorylation status of pleckstrin is modulated by Epstein-Barr virus in human B lymphocytes [letter] Kienzle N, et al. **Blood** 1997 May 1;89(9):3488–90

Lytic replication of Epstein-Barr virus in the peripheral blood: analysis of viral gene expression in B lymphocytes during infectious mononucleosis and in the normal carrier state. Prang NS, et al. **Blood** 1997 Mar 1;89(5):1665–77

High frequency of Epstein-Barr virus (EBV) lymphoblastoid cell line-reactive lymphocytes in cord blood: evaluation of cytolytic activity and IL-2 production. Moretta A, et al. **Clin Exp Immunol** 1997 Feb;107(2):312–20

The role of Epstein-Barr virus in lymphoid malignancies. Su IJ, et al. **Crit Rev Oncol Hematol** 1997 May;26(1):25–41 (148 ref.)

Cytomorphology of primary CNS lymphoma: review of 23 cases and evidence for the role of EBV. Yu GH, et al. **Diagn Cytopathol** 1996 Mar;14(2):114–20

Long-term gene expression from autonomously replicating vectors in mammalian cells. Wohlgemuth JG, et al. **Gene Ther** 1996 Jun;3(6):503–12

Histo-blood group p: biosynthesis of globoseries glycolipids in EBV-transformed B cell lines. Wiels J, et al. **Glycoconj J** 1996 Aug;13(4):529–35

Epstein-Barr virus latent and replicative gene expression in gastric carcinoma. Selves J, et al. **Histopathology** 1996 Feb; 28(2):121–7

Synergy between anti-CD40 MAb and Epstein-Barr virus in activation and transformation of human B lymphocytes. Tsuchiyama L, et al. **Hum Antibodies** 1997;8(1):43–7

Lack of Epstein-Barr virus replication in human immunodeficiency virus-associated Hodgkin's disease [letter; comment] Brousset P, et al. **Hum Pathol** 1996 Sep; 27(9):996–7. Comment on: Hum Pathol 1995 Nov;26(11):1191–5.

Is EBV persistence in vivo a model for B cell homeostasis? Khan G, et al. **Immunity** 1996 Aug;5(2):173–9

The ecology and pathology of Epstein-Barr virus. Schmidt CW, et al. **Immunol Cell Biol** 1995 Dec;73(6):489–504 (260 ref.)

B-CLL cells experimentally infected with EBV enter DNA synthesis, produce cytokines and stimulate T-lymphocytes. Avila-Cariño J, et al. **Immunol Lett** 1996 Dec 1;54(1):45–52

Nasal NK- and T-cell lymphomas share the same type of Epstein-Barr virus latency as nasopharyngeal carcinoma and Hodgkin's disease. Chiang AK, et al. **Int J Cancer** 1996 Nov 4;68(3):285–90

Epstein-Barr virus (EBV) gene expression in lymphoid B cells during acute infectious mononucleosis (IM) and clonality of the directly growing cell lines. Laytragoon-Lewin N, et al. **Int J Cancer** 1997 May 2; 71(3):345–9

Expression of an Epstein-Barr-virus receptor and Epstein-Barr-virus-dependent transformation of human nasopharyngeal epithelial cells. Shao X, et al. **Int J Cancer** 1997 May 29;71(5):750–5

Epstein-Barr virus-encoded LMP-1 protein upregulates the pNDCF group of nucleoskeleton-cytoskeleton-associated proteins. Pokrovskaja K, et al. **J Gen Virol** 1997 Aug;78 (Pt 8):2031–40

Epstein-Barr virus (EBV) infection in infectious mononucleosis: virus latency, replication and phenotype of EBV-infected cells. Niedobitek G, et al. **J Pathol** 1997 Jun;182(2):151–9

Activation domain requirements for disruption of Epstein-Barr virus latency by ZEBRA. Aškovic S, et al. **J Virol** 1997 Sep;71(9):6547–54

The Epstein-Barr virus-induced Ca2+/calmodulin-dependent kinase type IV/Gr promotes a Ca(2+)-dependent switch from latency to viral replication. Chatila T, et al. **J Virol** 1997 Sep;71(9):6560–7

The ability of BHRF1 to inhibit apoptosis is dependent on stimulus and cell type. Foghsgaard L, et al. **J Virol** 1997 Oct;71(10):7509–17

Alteration of a single serine in the basic domain of the Epstein-Barr virus ZEBRA protein separates its functions of transcriptional activation and disruption of latency. Francis AL, et al. **J Virol** 1997 Apr;71(4):3054–61

Epstein-Barr virus BHRF1 protein protects intestine 407 epithelial cells from apoptosis induced by tumor necrosis factor alpha and anti-Fas antibody. Kawanishi M. **J Virol** 1997 Apr;71(4):3319–22

Dominant-negative inhibitors of EBNA-1 of Epstein-Barr virus. Kirchmaier AL, et al. **J Virol** 1997 Mar;71(3):1766–75

The Epstein-Barr virus glycoprotein 110 carboxy-terminal tail domain is essential for lytic virus replication. Lee SK, et al. **J Virol** 1997 May;71(5):4092–7

Selective switch between latency and lytic replication of Kaposi's sarcoma herpesvirus and Epstein-Barr virus in dually infected body cavity lymphoma cells. Miller G, et al. **J Virol** 1997 Jan;71(1):314–24

Identification of the site of Epstein-Barr virus persistence in vivo as a resting B cell. Miyashita EM, et al. **J Virol** 1997 Jul;71(7):4882–91

Epstein-Barr virus and the immune system. Hide and seek [clinical conference] Cohen JI. **JAMA** 1997 Aug 13; 278(6):510–3

Clonal versus polyclonal Epstein-Barr virus infection in nasopharyngeal carcinoma cell lines. Lin CT, et al. **Lab Invest** 1997 Jun;76(6):793–8

Absence of evidence for an etiologic role for Epstein-Barr virus in neoplasms of the lung and pleura. Conway EJ, et al. **Mod Pathol** 1996 May;9(5):491–5

IRF-7, a new interferon regulatory factor associated with Epstein-Barr virus latency. Zhang L, et al. **Mol Cell Biol** 1997 Oct;17(10):5748–57

Epstein-Barr virus exploits the normal cell pathway to regulate Rb activity during the immortalisation of primary B-cells. Cannell EJ, et al. **Oncogene** 1996 Oct 3; 13(7):1413–21

c-myc activation renders proliferation of Epstein-Barr virus (EBV)-transformed cells independent of EBV nuclear antigen 2 and latent membrane protein 1. Polack A, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10411–6

A human B-lymphoblastoid cell line constitutively producing Epstein-Barr herpesvirus and JHK retrovirus. Grossberg SE, et al. **Res Virol** 1997 May-Jun;148(3):191–206

Introduction: Epstein-Barr virus and non-B cell tumours. Young LS. **Semin Cancer Biol** 1996 Aug;7(4):163–4

Cytostatic effect of Epstein-Barr virus latent membrane protein-1 analyzed using tetracycline-regulated expression in B cell lines. Floettmann JE, et al. **Virology** 1996 Sep 1;223(1):29–40

Expression of Epstein-Barr virus latent membrane protein 1 protects Jurkat T cells from apoptosis induced by serum deprivation. Kawanishi M. **Virology** 1997 Feb 17; 228(2):244–50

Induction of pleckstrin by the Epstein-Barr virus nuclear antigen 3 family. Kienzle N, et al. **Virology** 1996 Oct 1; 224(1):167–74

Epstein-Barr virus permissively infects human syncytiotrophoblasts in vitro and induces replication of human T cell leukemia-lymphoma virus type I in dually infected cells. Tóth FD, et al. **Virology** 1997 Mar 17; 229(2):400–14

P32/TAP, a cellular protein that interacts with EBNA-1 of Epstein-Barr virus. Wang Y, et al. **Virology** 1997 Sep 15;236(1):18–29

Comparison of the EBNA1 proteins of Epstein-Barr virus and herpesvirus papio in sequence and function. Yates JL, et al. **Virology** 1996 Aug 1;222(1):1–13

[Hodgkin's disease. Role of the Epstein-Barr virus] Brousset P, et al. **Presse Med** 1997 Jul 5;26(23):1104–6 (12 ref.) **(Fre)**

[Molecular mechanism of lytic phase of Epstein-Barr virus DNA replication] Tsurumi T. **Nippon Rinsho** 1997 Feb; 55(2):321–7 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Epstein-Barr virus penetration mechanism to T lymphoblastoid cell lines] Uno M. **Nippon Rinsho** 1997 Feb; 55(2):404–8 (19 ref.) (Eng. Abstr.) **(Jpn)**

[Features of adult T-cell leukemia virus reproduction in B-cell lines and it's interaction with the Epstein-Barr herpesvirus] Iakovleva LS, et al. **Vopr Virusol** 1997 Mar-Apr;42(2):77–81 (Eng. Abstr.) **(Rus)**

ULTRASTRUCTURE

Crystal structure of Epstein-Barr virus protein BCRF1, a homolog of cellular interleukin-10. Zdanov A, et al. **J Mol Biol** 1997 May 2;268(2):460–7

HERPESVIRUS 5, HUMAN see **CYTOMEGALOVIRUS**

HERPESVIRUS 6, HUMAN

see related

EXANTHEMA SUBITUM

Human herpesviruses at sixes, sevens, and more [editorial] Hall CB. **Ann Intern Med** 1997 Sep 15;127(6):481–3

Could a herpesvirus mimic tacrolimus-induced leukoencephalopathy? [letter; comment] Paterson DL, et al. **Ann Neurol** 1997 Aug;42(2):270. Comment on: Ann Neurol 1996 Oct;40(4):575–80.

Human herpesvirus 6 (HHV-6). Lusso P. **Antiviral Res** 1996 Jun;31(1–2):1–21 (182 ref.)

Basal ganglia infarction associated with HHV-6 infection. Webb DW, et al. **Arch Dis Child** 1997 Apr;76(4):362–4

Serological confirmation of human herpesvirus type 6 infection in different age groups. Biesiadecka A, et al. **Arch Immunol Ther Exp (Warsz)** 1996;44(1):63–5

Human herpesvirus 6 infection. Huang LM, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan-Feb;38(1):1–7 (67 ref.)

Interferon-gamma (IFN-gamma) regulates production of IL-10 and IL-12 in human herpesvirus-6 (HHV-6)-infected monocyte/macrophage lineage. Li C, et al. **Clin Exp Immunol** 1997 Sep;109(3):421–5

Longitudinal study of human herpesvirus 6 infection in organ transplant recipients. Herbein G, et al. **Clin Infect Dis** 1996 Jan;22(1):171–3

Human herpesvirus 6. Braun DK, et al. **Clin Microbiol Rev** 1997 Jul;10(3):521–67 (576 ref.)

Meningoencephalitis associated with human herpesvirus-6 in an adult [letter] Ikusaka M, et al. **Intern Med** 1997 Feb; 36(2):157

Fulminant demyelinating encephalomyelitis associated with productive HHV-6 infection in an immunocompetent adult. Novoa LJ, et al. **J Med Virol** 1997 Jul;52(3):301–8

An encephalitic episode in a multiple sclerosis patient with human herpesvirus 6 latent infection. Merelli E, et al. **J Neurol Sci** 1996 Apr;137(1):42–6

Three new human herpesviruses (HHV6, 7, and 8). Levy JA. **Lancet** 1997 Feb 22;349(9051):558–63 (82 ref.)

Angioimmunoblastic lymphadenopathy with disseminated human herpesvirus 6 infection in a patient with acute myeloblastic leukemia. Daibata M, et al. **Leukemia** 1997 Jun;11(6):882–5

Breast milk is not a significant source for early Epstein-Barr virus or human herpesvirus 6 infection in infants: a seroepidemiologic study in 2 endemic areas of human T-cell lymphotropic virus type I in Japan. Kusuhara K, et al. **Microbiol Immunol** 1997;41(4):309–12

Emerging and newly identified viral infections. DeVincenzo JP. **Pediatr Ann** 1996 Sep;25(9):511–7

Human herpesvirus 6: primary infection and the central nervous system. Lyall EG. **Pediatr Infect Dis J** 1996 Aug; 15(8):693–6 (36 ref.)

Immunologic diagnostic and therapeutic aspects of cytomegalovirus, human herpes virus-6, and Epstein-Barr virus disease posttransplantation. Jacobs U, et al. **Transplant Proc** 1996 Dec;28(6):3238

Human herpesvirus-6 infection in liver transplant recipients: documentation of pathogenicity. Singh N, et al. **Transplantation** 1997 Sep 15;64(5):674–8

[Advances in the research on seroepidemiology of human herpesvirus-6 infections] Wang L, et al. **Chung Hua Yu Fang I Hsueh Tsa Chih** 1996 May; 30(3):169–71 (19 ref.) **(Chi)**

[Human herpesvirus-6: a new member of the herpesvirus family, a threat to AIDS, organ-transplanted and other immune deficient patients] Kenigsberg S, et al. **Harefuah** 1997 Mar 2;132(5):346–50 (40 ref.) **(Heb)**

[New human herpes viruses and relevant pathology] Kolomiets AG, et al. **Klin Med (Mosk)** 1997;75(1):10–4 (30 ref.) **(Rus)**

HERPESVIRUS 6, HUMAN

DRUG EFFECTS

A method for detection of HHV-6 antigens and its use for evaluating antiviral drugs. Yoshida M, et al. **J Virol Methods** 1996 Apr 26;58(1-2):137-43

GENETICS

Transient erythroblastopenia of childhood associated with human herpesvirus type 6, variant B. Penchansky L, et al. **Am J Clin Pathol** 1997 Aug;108(2):127-32

Diagnosis of primary human herpesvirus 6 and 7 infections in febrile infants by polymerase chain reaction. Clark DA, et al. **Arch Dis Child** 1997 Jul;77(1):42-5

Genetic content of a 20.9 kb segment of human herpesvirus 6B strain Z29 spanning the homologs of human herpesvirus 6A genes U40-57 and containing the origin of DNA replication. Lindquester GJ, et al. **Arch Virol** 1997; 142(1):103-23

Comparison of a 20 kb region of human herpesvirus 6B with other human beta herpesviruses reveals conserved replication genes and adjacent divergent open reading frames. Lindquester GJ, et al. **Arch Virol** 1997; 142(1):193-204

Variant A human herpesvirus six as a cofactor in the pathogenesis of AIDS [letter] Carrigan DR, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Sep; 13(1):97-8

Presence of human herpesvirus 6 variants A and B in saliva and peripheral blood mononuclear cells of healthy adults. Aberle SW, et al. **J Clin Microbiol** 1996 Dec;34(12):3223-5

Rare association of human herpesvirus 6 DNA with human papillomavirus DNA in cervical smears of women with normal and abnormal cytologies. Romano N, et al. **J Clin Microbiol** 1996 Jun;34(6):1589-91

Stringent structural and sequence requirements of the human herpesvirus 6B lytic-phase origin of DNA replication. Dykes C, et al. **J Gen Virol** 1997 May;78 (Pt 5):1125-9

Enhancement of TAT-induced transactivation of the HIV-1 LTR by two genomic fragments of HHV-6. Garzino-Demo A, et al. **J Med Virol** 1996 Sep;50(1):20-4

Search for human herpesvirus 6 and human cytomegalovirus in bronchoalveolar lavage from patients with human immunodeficiency virus-1 and respiratory disorders. Portolani M, et al. **J Med Virol** 1996 Feb;48(2):179-83

Seroepidemiological study of human herpesvirus-6 and -7 in children of different ages and detection of these two viruses in throat swabs by polymerase chain reaction. Tanaka-Taya K, et al. **J Med Virol** 1996 Jan;48(1):88-94

Human herpes virus 6 and human herpes virus 8 DNA sequences in brains of multiple sclerosis patients, normal adults and children. Merelli E, et al. **J Neurol** 1997 Jul; 244(7):450-4

Human herpesvirus 6 polymerase chain reaction findings in human immunodeficiency virus associated neurological disease and multiple sclerosis. Liedtke W, et al. **J Neurovirol** 1995 Sep;1(3-4):253-8

Identification and analysis of a lytic-phase origin of DNA replication in human herpesvirus 7. van Loon N, et al. **J Virol** 1997 Apr;71(4):3279-84

Transcriptional patterns of the pCD41 (U27) locus of human herpesvirus 6. Zhou Y, et al. **J Virol** 1997 May; 71(5):3420-30

Detection of HHV-6 genotypes by in situ hybridization with variant-specific oligonucleotide probes. Arivananthan M, et al. **J Virol Methods** 1997 Jun;66(1):5-14

Cell lines containing and expressing the human herpesvirus 6A ts gene are protected from both H-ras and BPV-1 transformation. Araujo JC, et al. **Oncogene** 1997 Feb 27; 14(8):937-43

GROWTH & DEVELOPMENT

Human herpesvirus-6 reactivation in a longitudinal study of two HIV-1 infected patients. Iuliano R, et al. **J Med Virol** 1997 Apr;51(4):259-64

Productive HHV-6 infection in differentiated U937 cells: role of TNF alpha in regulation of HHV-6. Arena A, et al. **New Microbiol** 1997 Jan;20(1):13-20

SupT-1: a cell system suitable for an efficient propagation of both HHV-7 and HHV-6 variants A and B. Cermelli C, et al. **New Microbiol** 1997 Jul;20(3):187-96

Growth of human herpesvirus 6 in HEPG2 cells. Cermelli C, et al. **Virus Res** 1996 Dec;45(2):75-85

IMMUNOLOGY

Human herpesvirus-6 immunoglobulin G antibodies in patients with multiple sclerosis. Nielsen L, et al. **Acta Neurol Scand Suppl** 1997;169:76-8

Use of anti HHV-6 transfer factor for the treatment of two patients with chronic fatigue syndrome (CFS). Two case reports. Ablashi DV, et al. **Biotherapy** 1996;9(1-3):81-6

Seroconversion to human herpesvirus 6 and human herpesvirus 7 among Brazilian children with clinical diagnoses of measles or rubella. Black JB, et al. **Clin Infect Dis** 1996 Nov;23(5):1156-8

Symptomatic primary infection with human herpesvirus 6 variant A. Hidaka Y, et al. **Clin Infect Dis** 1997 May; 24(5):1022-3

Distribution of HHV-6 variants in human tissues. Di Luca D, et al. **Infect Agents Dis** 1996 Oct;5(4):203-14 (103 ref.)

Evaluation of a commercial enzyme-linked immunosorbent assay for detection of serum immunoglobulin G response to human herpesvirus 6. Sloots TP, et al. **J Clin Microbiol** 1996 Mar;34(3):675-9

Antigenic analysis of human herpesvirus 7 (HHV-7) and HHV-6 using immune sera and monoclonal antibodies against HHV-7. Nakagawa N, et al. **J Gen Virol** 1997 May; 78 (Pt 5):1131-7

Identification of a variant B-specific neutralizing epitope on glycoprotein H of human herpesvirus-6. Takeda K, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2171-8

Low prevalence of circulating anti-type 6 human herpes virus IgG-antibodies in Spanish children. Roldan C, et al. **Microbios** 1996;86(349):233-6

Association of human herpesvirus 6 infection with exanthem subitum in Belem, Brazil. de Freitas RB, et al. **Rev Inst Med Trop Sao Paulo** 1995 Nov-Dec;37(6):489-92

Seroepidemiology of human herpesvirus 6 in a population seen in the University Hospital, Kuala Lumpur, Malaysia. Chua KB, et al. **Southeast Asian J Trop Med Public Health** 1996 Mar; 27(1):91-5

Identification of a variant A-specific neutralizing epitope on glycoprotein B (gB) of human herpesvirus-6 (HHV-6). Takeda K, et al. **Virology** 1996 Aug 1;222(1):176-83

ISOLATION & PURIFICATION

Lymphotropic virus infection of peripheral blood mononuclear cells in B-cell non-Hodgkin's lymphoma. Ferri C, et al. **Acta Haematol** 1997;98(2):89-94

Absence of seven human herpesviruses, including HHV-6, by polymerase chain reaction in CSF and blood from patients with multiple sclerosis and optic neuritis. Martin C, et al. **Acta Neurol Scand** 1997 May;95(5):280-3

Primary infections of human herpesvirus-7 and herpesvirus-6: a comparative, longitudinal study up to 6 years of age. Huang LM, et al. **Acta Paediatr** 1997 Jun; 86(6):604-8

Distribution of human herpesvirus 6 and varicella-zoster virus in organs of a fatal case with exanthem subitum and varicella. Ueda T, et al. **Acta Paediatr Jpn** 1996 Dec; 38(6):590-5

Human herpesvirus 6 and Epstein-Barr virus in Hodgkin's disease: a controlled study by polymerase chain reaction and in situ hybridization. Valente G, et al. **Am J Pathol** 1996 Nov;149(5):1501-10

Human herpesvirus 6 (HHV-6)-positive Burkitt's lymphoma: establishment of a novel cell line infected with HHV-6. Bandobashi K, et al. **Blood** 1997 Aug 1;90(3):1200-7

Detection of human herpesvirus 6 sequences in lymphoma tissues by immunohistochemistry and polymerase chain reactions. Razzaque A, et al. **Cancer Lett** 1996 Sep 10; 106(2):221-6

A study of childhood febrile convulsions with particular reference to HHV-6 infection: pathogenic considerations. Bertolani MF, et al. **Childs Nerv Syst** 1996 Sep;12(9):534-9

HHV-6 antigen and viral DNA detected in cervical cells from archived tissue using histochemical staining and hybridization. Yadav M, et al. **Clin Diagn Virol** 1996 Oct; 7(1):23-33

Symptomatic primary infection with human herpesvirus 6 variant A. Hidaka Y, et al. **Clin Infect Dis** 1997 May; 24(5):1022-3

Chronic myelosuppression associated with persistent bone marrow infection due to human herpesvirus 6 in a bone marrow transplant recipient. Knox KK, et al. **Clin Infect Dis** 1996 Jan;22(1):174-5

Acute encephalitis due to human herpesvirus 6. Moschettini D, et al. **Clin Infect Dis** 1996 Aug;23(2):397-8

Presence of human herpesvirus type 6 in sporadic lymphoproliferative disorders. A comparative study. Hallas C, et al. **Diagn Mol Pathol** 1996 Sep;5(3):166-72

Epstein-Barr virus (herpesvirus 4) types A, B and herpesvirus-6 variants A and B in patients presenting with recurrent upper respiratory inflammation, persistent paravertebral thoraco-lumbar muscle spasm and fatigue by polymerase chain reaction (PCR). McGuire T, et al. **In Vivo** 1997 Jan-Feb;11(1):23-8

Presence of human herpesvirus 6 variants A and B in saliva and peripheral blood mononuclear cells of healthy adults. Aberle SW, et al. **J Clin Microbiol** 1996 Dec;34(12):3223-5

Rare association of human herpesvirus 6 DNA with human papillomavirus DNA in cervical smears of women with normal and abnormal cytologies. Romano N, et al. **J Clin Microbiol** 1996 Jun;34(6):1589-91

Detection of human herpesvirus 6 and human herpesvirus 7 in the submandibular gland, parotid gland, and lip salivary gland by PCR. Sada E, et al. **J Clin Microbiol** 1996 Sep; 34(9):2320-1

Prevalence of human herpesvirus 6 in lung tissue from children with pneumonitis. Hammerling JA, et al. **J Clin Pathol** 1996 Oct;49(10):802-4

Quantification of human herpesvirus 6 in immunocompetent persons and post-mortem tissues from AIDS patients by PCR. Clark DA, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2271-5

Infection with AIDS-related herpesviruses in human immunodeficiency virus-negative infants and endemic childhood Kaposi's sarcoma in Africa. Kasolo FC, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):847-55

Detection of human herpes virus 6 in AIDS-associated retinitis by means of in situ hybridization, polymerase chain reaction and immunohistochemistry. Fillet AM, et al. **J Med Virol** 1996 Aug;49(4):289-95

Cellular localization of human herpesvirus-6 in the brains of children with AIDS encephalopathy [see comments] Saito Y, et al. **J Neurovirol** 1995 Mar;1(1):30-9. Comment in: J Neurovirol 1995 Sep;1(3-4):321.

Three or more infantile febrile seizures and HHV-6 [letter; comment] Westarp ME, et al. **J Neurovirol** 1995 Sep; 1(3-4):321. Comment on: J Neurovirol 1995 Mar;1(1):30-9.

Detection and variant identification of HHV-6 by a non-radioactive hybridization microplate assay for amplimers detection. Gautheret A, et al. **J Virol Methods** 1996 Apr 26;58(1-2):33-40

Development and application of HHV-6 antigen capture assay for the detection of HHV-6 infections. Marsh S, et al. **J Virol Methods** 1996 Sep;61(1-2):103-12

Competitive ELISA for detection of HHV-6 antibody: seroprevalence in a danish population. Nielsen L, et al. **J Virol Methods** 1996 Feb;56(2):221-30

Autoimmune hepatitis and adrenal insufficiency in an infant with human herpesvirus-6 infection [letter] Schmitt K, et al. **Lancet** 1996 Oct 5;348(9032):966

Primary infection by HHV-6 variant B associated with a fatal case of hemophagocytic syndrome. Portolani M, et al. **New Microbiol** 1997 Jan;20(1):7-11

A case of human herpesvirus-6 lymphadenitis with infectious mononucleosis-like syndrome. Sumiyoshi Y, et al. **Pathol Int** 1995 Dec;45(12):947-51

CD68+ cells of monocyte/macrophage lineage in the environment of AIDS-associated and classic-sporadic Kaposi sarcoma are singly or doubly infected with human herpesviruses 7 and 6B. Kempf W, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7600-5

[Human herpesviruses 6 and 7] Asano Y. **Rinsho Byori** 1996 Sep;44(9):825-31 (Eng. Abstr.) **(Jpn)**

METABOLISM

Role of IFN gamma on TNF alpha, IL-1 beta and IL-6 release during HHV-6 infection. Arena A, et al. **New Microbiol** 1996 Jul;19(3):183-91

Prokaryotic expression of an immediate-early gene of human herpesvirus 6 and analysis of its viral antigen expression in human cells. Takeda K, et al. **Virus Res** 1996 Apr; 41(2):193-200

PATHOGENICITY

Childhood infections with human herpesviruses types 6, 7, and 8. Grose C. **Adv Pediatr Infect Dis** 1996;12:181-208 (69 ref.)

Distribution of HHV-6 variants in human tissues. Di Luca D, et al. **Infect Agents Dis** 1996 Oct;5(4):203-14 (103 ref.)

Suppressive effects of human herpesvirus 6 on in vitro colony formation of hematopoietic progenitor cells. Isomura H, et al. **J Med Virol** 1997 Aug;52(4):406-12

Difference in permissiveness of human fibroblast cells to variants A and B of human herpesvirus-6. Robert C, et al. **Res Virol** 1996 Jul-Aug;147(4):219-25

[Kikuchi-Fujimoto disease associated with acute infection by herpesvirus 6 (see comments)] Rodríguez JN, et al. **Sangre (Barc)** 1996 Oct;41(5):387-90 (Eng. Abstr.). Comment in: Sangre (Barc) 1996 Oct;41(5):337-9. **(Spa)**

PHYSIOLOGY

Infection of human T lymphoid cells by human herpesvirus 6 is blocked by two unrelated protein tyrosine kinase inhibitors, biochanin A and herbimycin. Cirone M, et al. **AIDS Res Hum Retroviruses** 1996 Nov 20;12(17):1629-34

The latency rate of human herpesvirus 6 (HHV6) in positive and negative human immunodeficiency virus (HIV) infection of intravenous drug users (IVDU). Jayavasu C, et al. **Asian Pac J Allergy Immunol** 1997 Mar;15(1):29-33

Transcriptional activation of human immunodeficiency virus type 1 by herpesvirus infection: an in vivo footprinting study. Demarchi F, et al. **Intervirology** 1996;39(4):236-41

Induction of T-cell apoptosis by human herpesvirus 6. Inoue Y, et al. **J Virol** 1997 May;71(5):3751-9

[Beta-herpesvirus (human cytomegalovirus and human herpesvirus 6) latent infection] Kondo K. **Uirusu** 1996 Dec; 46(2):161-8 (13 ref.) **(Jpn)**

ULTRASTRUCTURE

Herpesvirus 6 variant A infection after heart transplantation with giant cell transformation in bile ductular and gastroduodenal epithelium. Randhawa PS, et al. **Am J Surg Pathol** 1997 Jul;21(7):847-53

HERPESVIRUS 7, HUMAN

Human herpesviruses at sixes, sevens, and more [editorial] Hall CB. **Ann Intern Med** 1997 Sep 15;127(6):481-3

Human herpesvirus 7 infection of lymphoid and myeloid cell lines transduced with an adenovirus vector containing the CD4 gene. Yasukawa M, et al. **J Virol** 1997 Feb; 71(2):1708-12

Human herpesvirus 7 in pityriasis rosea [letter] Drago F, et al. **Lancet** 1997 May 10;349(9062):1367-8

Three new human herpesviruses (HHV6, 7, and 8). Levy JA. **Lancet** 1997 Feb 22;349(9051):558-63 (82 ref.)

[New human herpes viruses and relevant pathology] Kolomiets AG, et al. **Klin Med (Mosk)** 1997;75(1):10-4 (30 ref.) **(Rus)**

CHEMISTRY

Identification and analyses of glycoprotein B of human herpesvirus 7. Hata A, et al. **Virus Res** 1996 Dec; 46(1-2):125-37

GENETICS

Diagnosis of primary human herpesvirus 6 and 7 infections in febrile infants by polymerase chain reaction. Clark DA, et al. **Arch Dis Child** 1997 Jul;77(1):42-5

Human herpesvirus 7 (HHV-7) DNA: analyses of clones spanning the entire genome. Singer O, et al. **Arch Virol** 1997;142(2):287-303

Identification of envelope glycoproteins H and B homologues of human herpesvirus 7. Secchiero P, et al. **Intervirology** 1997;40(1):22-32

Seroepidemiological study of human herpesvirus-6 and -7 in children of different ages and detection of these two viruses in throat swabs by polymerase chain reaction. Tanaka-Taya K, et al. **J Med Virol** 1996 Jan;48(1):88-94

The 85-kilodalton phosphoprotein (pp85) of human herpesvirus 7 is encoded by open reading frame U14 and localizes to a tegument substructure in virion particles. Stefan A, et al. **J Virol** 1997 Aug;71(8):5758-63

Identification and analysis of a lytic-phase origin of DNA replication in human herpesvirus 7. van Loon N, et al. **J Virol** 1997 Apr;71(4):3279-84

Use of inverse polymerase chain reaction to characterize a novel human herpesvirus 7 isolate. Poirel L, et al. **J Virol Methods** 1997 Mar;64(2):197-203

Characterization of glycoprotein H and L of human herpesvirus 7. Mukai T, et al. **Microbiol Immunol** 1997; 41(1):43-50

GROWTH & DEVELOPMENT

SupT-1: a cell system suitable for an efficient propagation of both HHV-7 and HHV-6 variants A and B. Cermelli C, et al. **New Microbiol** 1997 Jul;20(3):187-96

Growth of human herpesvirus 6 in HEPG2 cells. Cermelli C, et al. **Virus Res** 1996 Dec;45(2):75-85

IMMUNOLOGY

Seroconversion to human herpesvirus 6 and human herpesvirus 7 among Brazilian children with clinical diagnoses of measles or rubella. Black JB, et al. **Clin Infect Dis** 1996 Nov;23(5):1156-8

Antigenic analysis of human herpesvirus 7 (HHV-7) and HHV-6 using immune sera and monoclonal antibodies against HHV-7. Nakagawa N, et al. **J Gen Virol** 1997 May; 78 (Pt 5):1131-7

Human herpesvirus 7 infection of CD4+(+) T cells does not require expression of the OKT4 epitope. Yasukawa M, et al. **J Gen Virol** 1996 Dec;77 (Pt 12):3103-6

Human herpesvirus 7 induces the down-regulation of CD4 antigen in lymphoid T cells without affecting p56lck levels. Secchiero P, et al. **J Immunol** 1997 Oct 1;159(7):3412-23

Prolonged viremia and immune response to human herpesvirus 7 in an infant with liver dysfunction. Torigoe S, et al. **Pediatrics** 1997 Sep;100(3 Pt 1):398-400

ISOLATION & PURIFICATION

Primary infections of human herpesvirus-7 and herpesvirus-6: a comparative, longitudinal study up to 6 years of age. Huang LM, et al. **Acta Paediatr** 1997 Jun; 86(6):604-8

Detection of human Betaherpesvirinae in saliva and urine from immunocompromised and immunocompetent subjects. Gautheret-Dejean A, et al. **J Clin Microbiol** 1997 Jun;35(6):1600-3

Detection of human herpesvirus 6 and human herpesvirus 7 in the submandibular gland, parotid gland, and lip salivary gland by PCR. Sada E, et al. **J Clin Microbiol** 1996 Sep; 34(9):2320-1

Infection with AIDS-related herpesviruses in human immunodeficiency virus-negative infants and endemic childhood Kaposi's sarcoma in Africa. Kasolo FC, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):847-55

CD68+ cells of monocyte/macrophage lineage in the environment of AIDS-associated and classic-sporadic Kaposi sarcoma are singly or doubly infected with human herpesviruses 7 and 6B. Kempf W, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7600-5

[Human herpesviruses 6 and 7] Asano Y. **Rinsho Byori** 1996 Sep;44(9):825-31 (Eng. Abstr.) **(Jpn)**

[Prevalence of human herpesvirus 7 in Mexican blood donors] Rojo Medina J, et al. **Rev Invest Clin** 1995 Nov-Dec; 47(6):467-71 (Eng. Abstr.) **(Spa)**

PATHOGENICITY

Childhood infections with human herpesviruses types 6, 7, and 8. Grose C. **Adv Pediatr Infect Dis** 1996;12:181-208 (69 ref.)

Role of the extracellular domain of human herpesvirus 7 glycoprotein B in virus binding to cell surface heparan sulfate proteoglycans. Secchiero P, et al. **J Virol** 1997 Jun; 71(6):4571-80

PHYSIOLOGY

Ultrastructural study of human herpesvirus-7 replication in tissue culture. Klussmann JP, et al. **Virchows Arch** 1997 May;430(5):417-26

ULTRASTRUCTURE

Ultrastructural study of human herpesvirus-7 replication in tissue culture. Klussmann JP, et al. **Virchows Arch** 1997 May;430(5):417-26

HERPESVIRUS INFECTIONS see **HERPESVIRIDAE INFECTIONS**

HERPESVIRUS, KAPOSI'S SARCOMA-ASSOCIATED

Kaposi's sarcoma: relationship to a novel herpesvirus and advances in therapy. Lee FC, et al. **AIDS** 1996;10 Suppl A:S173-9 (71 ref.)

Kaposi's sarcoma-associated herpesvirus/human herpesvirus type 8 encephalitis in HIV-positive and -negative individuals. Said JW, et al. **AIDS** 1997 Jul 15;11(9):1119-22

The epidemiology of HIV-associated Kaposi's sarcoma: the unraveling mystery. Strathdee SA, et al. **AIDS** 1996;10 Suppl A:S51-7 (112 ref.)

Human herpesviruses at sixes, sevens, and more [editorial] Hall CB. **Ann Intern Med** 1997 Sep 15;127(6):481-3

The Kaposi's sarcoma-associated herpesvirus (human herpesvirus-8) in Kaposi's sarcoma, malignant lymphoma, and other diseases. Knowles DM, et al. **Ann Oncol** 1997; 8 Suppl 2:123-9 (57 ref.)

HHV-8-positive body-cavity-based lymphoma: a novel lymphoma entity. Carbone A, et al. **Br J Haematol** 1997 Jun;97(3):515-22 (40 ref.)

A new human herpesvirus as a factor in the pathogenesis of Kaposi's sarcoma and body-cavity lymphoma [comment] Sarris A. **Cancer J Sci Am** 1997 May-Jun; 3(3):140-1 (29 ref.). Comment on: Cancer J Sci Am 1997 May-Jun;3(3):153-6.

Demonstration of herpes virus 8 in a lymphangioma-like Kaposi's sarcoma occurring in a non-immunosuppressed patient [letter] Noël JC, et al. **Dermatology** 1997;194(1):90-1

Herpes virus (KSHV) associated Kaposi sarcoma in a 3-year-old child with non-HIV-induced immunodeficiency. Kusenbach G, et al. **Eur J Pediatr** 1997 Jun;156(6):440-3

In situ polymerase chain reaction-based localization studies support role of human herpesvirus-8 as the cause of two AIDS-related neoplasms: Kaposi's sarcoma and body cavity lymphoma. Foreman KE, et al. **J Clin Invest** 1997 Jun 15;99(12):2971-8

Human herpesvirus 8 infection occurs following adolescence in the United States. Blauvelt A, et al. **J Infect Dis** 1997 Sep;176(3):771-4

Analysis of human herpesvirus type 8 infection in AIDS-related and AIDS-unrelated primary central nervous system lymphoma. Gaidano G, et al. **J Infect Dis** 1997 May;175(5):1193-7

Three new human herpesviruses (HHV6, 7, and 8). Levy JA. **Lancet** 1997 Feb 22;349(9051):558-63 (82 ref.)

Circulating spindle cells: correlation with human herpesvirus-8 (HHV-8) infection and Kaposi's sarcoma [letter] Sirianni MC, et al. **Lancet** 1997 Jan 25;349(9047):255

HHV-8 and AIDS-related CNS lymphoma. Morgello S, et al. **Neurology** 1997 May;48(5):1333-5

Kaposi's sarcoma-associated herpesvirus: a lymphotropic human herpesvirus associated with Kaposi's sarcoma, primary effusion lymphoma, and multicentric Castleman's disease. Cesarman E, et al. **Semin Diagn Pathol** 1997 Feb; 14(1):54-66 (153 ref.)

HHV-8: a new herpesvirus associated with Kaposi's sarcoma. Offermann MK. **Trends Microbiol** 1996 Oct;4(10):383-6 (51 ref.)

[Human herpesvirus 8. A Kaposi sarcoma-associated herpesvirus?] Benfield TL. **Ugeskr Laeger** 1997 Aug 4; 159(32):4837-8 **(Dan)**

[Kaposi sarcoma and human herpes virus type 8: recent data] Camparo P, et al. **Med Trop (Mars)** 1996;56(3):231-7 (84 ref.) **(Fre)**

[Human herpesvirus 8 infections] Agut H. **Presse Med** 1997 Jan;26 Suppl 1:16-8 (26 ref.) **(Fre)**

[Kaposi disease] Dupin N, et al. **Presse Med** 1997 Jun 14; 26(20):964-5 **(Fre)**

[The 8th human herpesvirus] Huraux JM, et al. **Presse Med** 1997 Jun 28;26(22):1058-62 (26 ref.) **(Fre)**

[A new gamma-2 herpesvirus, defined as HHV8 or Kaposi's sarcoma herpes virus (KSHV), could be involved in the pathogenesis of Kaposi's sarcoma] Ruco LP. **Pathologica** 1996 Dec;88(6):525-6 **(Ita)**

[Is HVH-8 the etiologic agent for Kaposi's sarcoma? (letter; comment)] Aspíroz MC, et al. **Enferm Infecc Microbiol Clin** 1996 Nov;14(9):569-70. Comment on: Enferm Infecc Microbiol Clin 1996 May;14(5):283-4. **(Spa)**

DRUG EFFECTS

In vitro antiviral drug sensitivity of the Kaposi's sarcoma-associated herpesvirus. Medveczky MM, et al. **AIDS** 1997 Sep;11(11):1327-32

Sensitivity of Kaposi's sarcoma-associated herpesvirus replication to antiviral drugs. Implications for potential therapy. Kedes DH, et al. **J Clin Invest** 1997 May 1; 99(9):2082-6

Clearance of HHV-8 from peripheral blood mononuclear cells with a protease inhibitor [letter] Rizzieri DA, et al. **Lancet** 1997 Mar 15;349(9054):775-6

ENZYMOLOGY

Kaposi's sarcoma-associated herpesvirus encodes a functional cyclin. Li M, et al. **J Virol** 1997 Mar;71(3):1984-91

The protease and the assembly protein of Kaposi's sarcoma-associated herpesvirus (human herpesvirus 8). Unal A, et al. **J Virol** 1997 Sep;71(9):7030-8

GENETICS

Absence of human herpesvirus 8 genomes in coronary atherosclerosis in immunocompetent patients. Ye D, et al. **Am J Cardiol** 1997 May 1;79(9):1245-7

Detection of the herpesvirus-like DNA sequences in matched specimens of semen and blood from patients with AIDS-related Kaposi's sarcoma by polymerase chain reaction in situ hybridization. Huang YQ, et al. **Am J Pathol** 1997 Jan;150(1):147-53

Short report: herpes-like DNA sequences in African-endemic and acquired immunodeficiency syndrome-associated Kaposi's sarcoma. Eto H, et al. **Am J Trop Med Hyg** 1996 Oct;55(4):405-6

Sequences of human herpesvirus 8 are not detected in various non-Kaposi sarcoma vascular lesions [letter] Lebbé C, et al. **Arch Dermatol** 1997 Jul;133(7):919-20

Lack of evidence of human herpesvirus 8 DNA sequences in HIV-negative patients with various lymphoproliferative disorders of the skin. Dupin N, et al. **Br J Dermatol** 1997 Jun;136(6):827-30

Absence of human herpesvirus-8 DNA in angiosarcomas and other skin tumours in immunocompetent patients, and in graft-versus-host disease in the immunosuppressed recipients of bone marrow transplants [letter] Takata M, et al. **Br J Dermatol** 1997 Jul;137(1):156-7

The role of human herpesvirus 8 and Epstein-Barr virus in the pathogenesis of giant lymph node hyperplasia (Castleman's disease). Corbellino M, et al. **Clin Infect Dis** 1996 Jun;22(6):1120-1

Microsatellite instability in KSHV/HHV-8 positive body-cavity-based lymphoma. Gaidano G, et al. **Hum Pathol** 1997 Jun;28(6):748-50

Absence of human herpesvirus 8 DNA sequences in neoplastic Kaposi's sarcoma cell lines. Flamand L, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Oct 1;13(2):194-7

Presence of human herpesvirus 8 variants in the oral tissues of human immunodeficiency virus-infected persons. Di Alberti L, et al. **J Infect Dis** 1997 Mar;175(3):703-7

Frequent detection of Kaposi's sarcoma-associated herpesvirus (human herpesvirus 8) DNA in saliva of human immunodeficiency virus-infected men: clinical and immunologic correlates. Koelle DM, et al. **J Infect Dis** 1997 Jul;176(1):94-102

Detection of human herpesvirus 8 DNA in Kaposi's sarcoma lesions and peripheral blood of human immunodeficiency virus-positive patients and correlation with serologic measurements. Smith MS, et al. **J Infect Dis** 1997 Jul; 176(1):84-93

Human herpesvirus-8 DNA sequences in a patient with pemphigus vulgaris, but without HIV infection or Kaposi's sarcoma [letter] Memar OM, et al. **J Invest Dermatol** 1997 Jan;108(1):118-9

Detection of human herpesvirus 8 DNA sequences in peripheral blood mononuclear cells of children. Kikuta H, et al. **J Med Virol** 1997 Sep;53(1):81-4

Human herpes virus 6 and human herpes virus 8 DNA sequences in brains of multiple sclerosis patients, normal adults and children. Merelli E, et al. **J Neurol** 1997 Jul; 244(7):450-4

Kaposi's sarcoma-associated herpesvirus contains G protein-coupled receptor and cyclin D homologs which are expressed in Kaposi's sarcoma and malignant lymphoma. Cesarman E, et al. **J Virol** 1996 Nov; 70(11):8218-23

The cyclin encoded by Kaposi's sarcoma-associated herpesvirus stimulates cdk6 to phosphorylate the retinoblastoma protein and histone H1. Godden-Kent D, et al. **J Virol** 1997 Jun;71(6):4193-8

Human herpesvirus 8 strain variability in clinical conditions other than Kaposi's sarcoma [letter] Luppi M, et al. **J Virol** 1997 Oct;71(10):8082-3

Human herpesvirus 8 encodes a homolog of interleukin-6. Neipel F, et al. **J Virol** 1997 Jan;71(1):839-42

Cell-homologous genes in the Kaposi's sarcoma-associated rhadinovirus human herpesvirus 8: determinants of its pathogenicity? Neipel F, et al. **J Virol** 1997 Jun; 71(6):4187-92 (66 ref.)

A single 13-kilobase divergent locus in the Kaposi sarcoma-associated herpesvirus (human herpesvirus 8) genome contains nine open reading frames that are homologous to or related to cellular proteins. Nicholas J, et al. **J Virol** 1997 Mar;71(3):1963-74

Open reading frame 26 of human herpesvirus 8 encodes a tetradecanoyl phorbol acetate- and butyrate-inducible 32-kilodalton protein expressed in a body cavity-based lymphoma cell line. O'Neill E, et al. **J Virol** 1997 Jun; 71(6):4791-7

The 222- to 234-kilodalton latent nuclear protein (LNA) of Kaposi's sarcoma-associated herpesvirus (human herpesvirus 8) is encoded by orf73 and is a component

of the latency-associated nuclear antigen. Rainbow L, et al. **J Virol** 1997 Aug;71(8):5915-21

The size and conformation of Kaposi's sarcoma-associated herpesvirus (human herpesvirus 8) DNA in infected cells and virions. Renne R, et al. **J Virol** 1996 Nov;70(11):8151-4

Characterization of ribonucleoprotein complexes containing an abundant polyadenylated nuclear RNA encoded by Kaposi's sarcoma-associated herpesvirus (human herpesvirus 8). Zhong W, et al. **J Virol** 1997 Feb; 71(2):1207-12

Strain variability among Kaposi sarcoma-associated herpesvirus (human herpesvirus 8) genomes: evidence that a large cohort of United States AIDS patients may have been infected by a single common isolate. Zong JC, et al. **J Virol** 1997 Mar;71(3):2505-11

Absence of Kaposi's sarcoma-associated herpesvirus-like DNA sequences in malignant vascular tumors of the serous membranes. Lin BT, et al. **Mod Pathol** 1996 Dec; 9(12):1143-6

Kaposi's sarcoma-associated human herpesvirus-8 encodes homologues of macrophage inflammatory protein-1 and interleukin-6. Nicholas J, et al. **Nat Med** 1997 Mar; 3(3):287-92

Kaposi's sarcoma-associated herpesvirus encodes a functional bcl-2 homologue. Sarid R, et al. **Nat Med** 1997 Mar; 3(3):293-8

Human herpesvirus KSHV encodes a constitutively active G-protein-coupled receptor linked to cell proliferation [see comments] Arvanitakis L, et al. **Nature** 1997 Jan 23; 385(6614):347-50. Comment in: Nature 1997 Jan 23;385(6614):296-7, 299.

Pirated genes in Kaposi's sarcoma [news; comment] Murphy PM. **Nature** 1997 Jan 23;385(6614):296-7, 299. Comment on: Nature 1997 Jan 23;385(6614):347-50.

A Bcl-2 homolog encoded by Kaposi sarcoma-associated virus, human herpesvirus 8, inhibits apoptosis but does not heterodimerize with Bax or Bak. Cheng EH, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):690-4

Nucleotide sequence of the Kaposi sarcoma-associated herpesvirus (HHV8). Russo JJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14862-7

Polyadenylylated nuclear RNA encoded by Kaposi sarcoma-associated herpesvirus. Sun R, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11883-8

KSHV sequences in biopsies and cultured spindle cells of epidemic, iatrogenic and Mediterranean forms of Kaposi's sarcoma. Aluigi MG, et al. **Res Virol** 1996 Sep-Oct; 147(5):267-75

Angiogenic and HIV-inhibitory functions of KSHV-encoded chemokines. Boshoff C, et al. **Science** 1997 Oct 10;278(5336):290-4

A broad-spectrum chemokine antagonist encoded by Kaposi's sarcoma-associated herpesvirus. Kledal TN, et al. **Science** 1997 Sep 12;277(5332):1656-9

Molecular mimicry of human cytokine and cytokine response pathway genes by KSHV. Moore PS, et al. **Science** 1996 Dec 6;274(5293):1739-44

Characterization of a chemokine receptor-related gene in human herpesvirus 8 and its expression in Kaposi's sarcoma. Guo HG, et al. **Virology** 1997 Feb 17;228(2):371-8

The structure and coding organization of the genomic termini of Kaposi's sarcoma-associated herpesvirus. Lagunoff M, et al. **Virology** 1997 Sep 15;236(1):147-54

Kaposi's sarcoma-associated herpesvirus (KSHV): a new viral pathogen associated with Kaposi's sarcoma, primary effusion lymphoma, and multicentric Castleman's disease. Said J. **West J Med** 1997 Jul;167(1):37-8

IMMUNOLOGY

The sex ratio of AIDS-associated Kaposi's sarcoma does not provide evidence that sex hormones play a role in pathogenesis [letter] Grulich AE, et al. **AIDS** 1996 Nov; 10(13):1595-6

Detection of human herpesvirus 8 DNA in Kaposi's sarcoma lesions and peripheral blood of human immunodeficiency virus-positive patients and correlation with serologic measurements. Smith MS, et al. **J Infect Dis** 1997 Jul; 176(1):84-93

Detection of antibodies against viral capsid proteins of human herpesvirus 8 in AIDS-associated Kaposi's sarcoma. André S, et al. **J Mol Med** 1997 Feb;75(2):145-52

Identification, expression, and immunogenicity of Kaposi's sarcoma-associated herpesvirus-encoded small viral capsid antigen. Lin SF, et al. **J Virol** 1997 Apr;71(4):3069-76

The prevalence of serum antibody to human herpesvirus 8 (Kaposi sarcoma-associated herpesvirus) among HIV-seropositive and high-risk HIV-seronegative women. Kedes DH, et al. **JAMA** 1997 Feb 12;277(6):478-81

Antibodies to human herpesvirus 8 in women and infants born in Haiti and the USA [letter] Goedert JJ, et al. **Lancet** 1997 May 10;349(9062):1368

Antibodies to human herpesvirus type 8 in the general population and in Kaposi's sarcoma patients [see comments] Lennette ET, et al. **Lancet** 1996 Sep 28;348(9031):858-61 . Comment in: Lancet 1996 Dec 7;348(9041):1587-8.

Changing seroepidemiology of HHV-8 [comment] Rickinson AB. **Lancet** 1996 Oct 26;348(9035):1110-1. Comment on: Lancet 1996 Oct 26;348(9035):1133-8.

Prevalence of Kaposi's sarcoma associated herpesvirus infection measured by antibodies to recombinant capsid protein and latent immunofluorescence antigen [see comments] Simpson GR, et al. **Lancet** 1996 Oct 26; 348(9035):1133-8. Comment in: Lancet 1996 Oct 26;348(9035):1110-1.

ISOLATION & PURIFICATION

Human herpesvirus 8 in classic Kaposi sarcoma. Kemény L, et al. **Acta Microbiol Immunol Hung** 1996;43(4):391-5

Human herpesvirus 8 in semen and prostate [editorial; comment] Blackbourn DJ, et al. **AIDS** 1997 Feb; 11(2):249-50. Comment on: AIDS 1997 Feb;11(2):F15-9.

Detection of Kaposi's sarcoma herpesvirus DNA in semen of homosexual men with Kaposi's sarcoma [letter] Gupta P, et al. **AIDS** 1996 Nov;10(13):1596-8

Detection of human herpesvirus 8 DNA in semen from HIV-infected individuals but not healthy semen donors [see comments] Howard MR, et al. **AIDS** 1997 Feb; 11(2):F15-9. Comment in: AIDS 1997 Feb;11(2):249-50.

Absence of human herpesvirus 8 sequences in prostate specimens [letter] Lebbé C, et al. **AIDS** 1997 Feb;11(2):270

Corrected prevalence of Kaposi's sarcoma (KS)-associated herpesvirus infection prior to onset of KS [letter] Parry JP, et al. **AIDS** 1997 Jan;11(1):127-8

Potential heterosexual Kaposi's sarcoma-associated herpesvirus transmission in a couple with HIV-induced immunodepression and with Kaposi's sarcoma and multicentric Castleman's disease [letter] Tirelli U, et al. **AIDS** 1996 Sep;10(11):1291-2

Human herpesvirus type 8 DNA sequences in biological samples of HIV-positive and negative individuals in Sicily. Viviano E, et al. **AIDS** 1997 Apr;11(5):607-12

Kaposi's sarcoma--associated herpesvirus: a newly recognized pathogen. Boshoff C, et al. **AIDS Clin Rev** 1997-98;:323-47 (108 ref.)

Detection of HHV-8 in Sjögren's syndrome. Dupin N, et al. **Am J Med** 1996 Dec;101(6):657-8

Detection of Kaposi's sarcoma-associated herpesvirus-like DNA sequence in angiosarcoma. McDonagh DP, et al. **Am J Pathol** 1996 Oct;149(4):1363-8

Splenic vascular tumors: a histologic, immunophenotypic, and virologic study. Arber DA, et al. **Am J Surg Pathol** 1997 Jul;21(7):827-35

Kaposi's sarcoma-associated herpesvirus and human herpesvirus 8 (KSHV/HHV8)-associated lymphoma of the bowel. Report of two cases in HIV-positive men with secondary effusion lymphomas. DePond W, et al. **Am J Surg Pathol** 1997 Jun;21(6):719-24

Role of human herpesvirus 8 in Kaposi sarcoma unclear [letter; comment] Drago F, et al. **Arch Dermatol** 1997 Aug; 133(8):1050-1. Comment on: Arch Dermatol 1997 Jan;133(1):25-30.

Lack of evidence of any association between human herpesvirus 8 and various skin tumors from both immunocompetent and immunosuppressed patients [letter] Dupin N, et al. **Arch Dermatol** 1997 Apr;133(4):537

Absence of human herpesvirus 8 DNA sequences in patients with immunosuppression-associated dermatofibromas [letter] Foreman K, et al. **Arch Dermatol** 1997 Jan; 133(1):108-9

Kaposi sarcoma-associated herpesvirus/human herpesvirus type 8 and Epstein-Barr virus in iatrogenic Kaposi sarcoma [letter] Henghold WB 2nd, et al. **Arch Dermatol** 1997 Jan; 133(1):109-11

Human herpesvirus 8 sequences are not detected in epithelial tumors from patients receiving transplants [letter] Lebbé C, et al. **Arch Dermatol** 1997 Jan;133(1):111

Detection of human herpesvirus 8 and human T-cell lymphotropic virus type 1 sequences in Kaposi sarcoma [see comments] Lebbé C, et al. **Arch Dermatol** 1997 Jan; 133(1):25-30. Comment in: Arch Dermatol 1997 Jan;133(1):83-5. Comment in: Arch Dermatol 1997 Aug;133(8):1050-1.

Kaposi sarcoma, Kaposi sarcoma-associated herpesvirus, and human T-cell lymphotropic virus type 1. What is the current evidence for causality? [editorial; comment] Warmuth I, et al. **Arch Dermatol** 1997 Jan;133(1):83-5. Comment on: Arch Dermatol 1997 Jan;133(1):25-30.

Rare presence of human herpesvirus 8 in skin tumors from patients with psoriasis treated with oral psoralen plus UV-A [letter] Wolf P, et al. **Arch Dermatol** 1997 Apr; 133(4):538-9

Kaposi's sarcoma-associated herpesvirus (KSHV) sequences in premalignant and malignant skin tumors. Inagi R, et al. **Arch Virol** 1996;141(11):2217-23

Establishment and characterization of a primary effusion (body cavity-based) lymphoma cell line (BC-3) harboring kaposi's sarcoma-associated herpesvirus (KSHV/HHV-8) in the absence of Epstein-Barr virus. Arvanitakis L, et al. **Blood** 1996 Oct 1;88(7):2648-54

Lack of evidence of HHV-8 DNA in blood cells from heart transplant recipients [letter] De Milito A, et al. **Blood** 1997 Mar 1;89(5):1837-8

Epstein-Barr virus latent gene expression in primary effusion lymphomas containing Kaposi's sarcoma-associated herpesvirus/human herpesvirus-8. Horenstein MG, et al. **Blood** 1997 Aug 1;90(3):1186-91

Primary effusion lymphoma in women: report of two cases of Kaposi's sarcoma herpes virus-associated effusion-based lymphoma in human immunodeficiency virus-negative women. Said JW, et al. **Blood** 1996 Oct 15;88(8):3124-8

Is Kaposi's sarcoma--associated herpesvirus ubiquitous in urogenital and prostate tissues? Tasaka T, et al. **Blood** 1997 Mar 1;89(5):1686-9

Human herpesvirus 8 DNA is rarely found in Bowen's disease of non-immunosuppressed patients [letter] Mitsuishi T, et al. **Br J Dermatol** 1997 May;136(5):803-4

Prevalence of human herpesvirus-8 in skin lesions. Nishimoto S, et al. **Br J Dermatol** 1997 Aug;137(2):179-84

Human herpesvirus-8/Kaposi's sarcoma-associated herpesvirus in organ transplant patients with immunosuppression. Alkan S, et al. **Br J Haematol** 1997 Feb;96(2):412-4

Human herpesvirus 8 in Kaposi's sarcoma of an HIV-negative Japanese woman with adult T-cell leukemia [letter] Daibata M, et al. **Br J Haematol** 1997 May; 97(2):507-8

Kaposi's sarcoma-associated herpesvirus sequences in benign lymphoid proliferations not associated with human immunodeficiency virus. Chadburn A, et al. **Cancer** 1997 Aug 15;80(4):788-97

Kaposi's-sarcoma-associated herpesvirus is detected in peripheral blood mononuclear cells of HIV-infected homosexuals more often than in heterosexuals [see comments] Rizzieri DA, et al. **Cancer J Sci Am** 1997 May-Jun;3(3):153-6. Comment in: Cancer J Sci Am 1997 May-Jun;3(3):140-1.

Study of HHV-8 in primary Sjögren's syndrome [letter] Couty JP, et al. **Clin Exp Rheumatol** 1997 May-Jun; 15(3):333-4

Kaposi's sarcoma herpesvirus-like DNA sequences in the saliva of individuals infected with human immunodeficiency virus. Boldogh I, et al. **Clin Infect Dis** 1996 Aug;23(2):406-7

Regression of AIDS-related Kaposi's sarcoma during therapy with thalidomide. Solèr RA, et al. **Clin Infect Dis** 1996 Sep;23(3):501-3; discussion 504-5

Kaposi's sarcoma-associated herpesvirus in Kaposi's sarcoma occurring in immunosuppressed renal transplant recipients. Kedda MA, et al. **Clin Transplant** 1996 Oct;10(5):429-31

Detection of herpesvirus-like DNA in the bronchoalveolar lavage fluid of patients with pulmonary Kaposi's sarcoma. Cathomas G, et al. **Eur Respir J** 1996 Aug;9(8):1743-6

Human herpesvirus-8-associated body cavity-based lymphoma in human immunodeficiency virus-infected patients: a unique B-cell neoplasm. Karcher DS, et al. **Hum Pathol** 1997 Jul;28(7):801-8 (47 ref.)

Expression of HHV-8 latency-associated T0.7 RNA in spindle cells and endothelial cells of AIDS-associated, classical and African Kaposi's sarcoma. Stürzl M, et al. **Int J Cancer** 1997 Jul 3;72(1):68-71

Kaposi's sarcoma-associated herpesvirus/human herpesvirus-8: a new virus in human pathology. Kemény L, et al. **J Am Acad Dermatol** 1997 Jul;37(1):107-13 (51 ref.)

Prevalence of human herpesvirus 8 DNA sequences in several patient populations. Marchioli CC, et al. **J Clin Microbiol** 1996 Oct;34(10):2635-8

Infection with AIDS-related herpesviruses in human immunodeficiency virus-negative infants and endemic childhood Kaposi's sarcoma in Africa. Kasolo FC, et al. **J Gen Virol** 1997 Apr;78 (Pt 4):847-55

Detection of serum antibodies to a Kaposi's sarcoma-associated herpesvirus-specific peptide. Davis DA, et al. **J Infect Dis** 1997 May;175(5):1071-9

Absence of detectable human herpesvirus 8 in the semen of human immunodeficiency virus-infected men without Kaposi's sarcoma. Diamond C, et al. **J Infect Dis** 1997 Sep; 176(3):775-7

Exacerbations of clinical symptoms in human immunodeficiency virus type 1-infected patients with multicentric Castleman's disease are associated with a high increase in Kaposi's sarcoma herpesvirus DNA load in peripheral blood mononuclear cells. Grandadam M, et al. **J Infect Dis** 1997 May;175(5):1198-201

Human herpesvirus type 8 DNA sequences in cell-free plasma and mononuclear cells of Kaposi's sarcoma patients [see comments] Harrington WJ Jr, et al. **J Infect Dis** 1996 Nov;174(5):1101-5. Comment in: J Infect Dis 1997 Aug;176(2):541.

Human herpesvirus 8 DNA sequences in CD8+ T cells [letter; comment] Sirianni MC, et al. **J Infect Dis** 1997 Aug; 176(2):541. Comment on: J Infect Dis 1996 Nov;174(5):1101-5.

Epstein-Barr virus and human herpesvirus 8 prevalence in human immunodeficiency virus-associated oral mucosal lesions. Webster-Cyriaque J, et al. **J Infect Dis** 1997 Jun; 175(6):1324-32

Kaposi's sarcoma-associated herpesvirus/human herpesvirus 8 is not detectable in peripheral blood mononuclear cells of the relatives of sporadic KS patients [letter] Uccini S, et al. **J Invest Dermatol** 1997 Jan;108(1):119-20

Detection of human herpes virus 8 DNA and sequence polymorphism in classical, epidemic, and iatrogenic Kaposi's sarcoma in South Africa. Engelbrecht S, et al. **J Med Virol** 1997 Jun;52(2):168-72

Detection of human herpesvirus 8 DNA sequences in peripheral blood mononuclear cells of children. Kikuta H, et al. **J Med Virol** 1997 Sep;53(1):81-4

Kaposi's sarcoma: is the hunt for the culprit over now? Schatz O, et al. **J Mol Med** 1997 Jan;75(1):28-34 (58 ref.)

Identification of two homologs of the Kaposi's sarcoma-associated herpesvirus (human herpesvirus 8) in retroperitoneal fibromatosis of different macaque species. Rose TM, et al. **J Virol** 1997 May;71(5):4138-44

Kaposi's sarcoma-associated herpesvirus gene expression in endothelial (spindle) tumor cells. Staskus KA, et al.

J Virol 1997 Jan;71(1):715–9

Transmissible Kaposi's sarcoma–associated herpesvirus (human herpesvirus 8) in saliva of men with a history of Kaposi's sarcoma. Vieira J, et al. **J Virol** 1997 Sep; 71(9):7083–7

Development of a quantitative competitive polymerase chain reaction for human herpesvirus 8. Lock MJ, et al. **J Virol Methods** 1997 Feb;64(1):19–26

Infectious human herpesvirus 8 in a healthy North American blood donor [see comments] Blackbourn DJ, et al. **Lancet** 1997 Mar 1;349(9052):609–11. Comment in: Lancet 1997 Mar 1;349(9052):584–5. Comment in: Lancet 1997 May 3;349(9061):1327. Comment in: Lancet 1997 May 3;349(9061):1327–8. Comment in: Lancet 1997 Jul 19;350(9072):217.

HHV–8 serology and Kaposi's sarcoma [letter; comment] Gompels UA, et al. **Lancet** 1996 Dec 7;348(9041):1587–8 . Comment on: Lancet 1996 Sep 28;348(9031):858–61.

Transfusional risk of HHV–8 infection [letter; comment] Lefrère JJ, et al. **Lancet** 1997 Jul 19;350(9072):217. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Blood donations and viruses [letter; comment] Operskalski EA, et al. **Lancet** 1997 May 3;349(9061):1327. Comment on: Lancet 1997 Mar 1;349(9052):609–11.

Lack of evidence of HHV–8 in mature T–cell lymphoproliferative disorders [letter; comment] Pawson R, et al. **Lancet** 1996 Nov 23;348(9039):1450–1. Comment on: Lancet 1996 Aug 17;348(9025):475–6.

Absence of human herpes virus 8 DNA sequences in large granular lymphocyte (LGL) leukemia. Loughran TP Jr, et al. **Leuk Lymphoma** 1997 Jun;26(1–2):177–80

Detection of human herpes virus type 8 DNA sequences as a valuable aid in the differential diagnosis of Kaposi's sarcoma. Maiorana A, et al. **Mod Pathol** 1997 Mar; 10(3):182–7

No role for human herpes virus 8 in the etiology of infantile capillary hemangioma. Smoller BR, et al. **Mod Pathol** 1997 Jul;10(7):675–8

HHV8 and Kaposi's sarcoma: a time cohort study. Kennedy MM, et al. **Mol Pathol** 1997 Apr;50(2):96–100

Kaposi's sarcoma associated herpes virus (KSHV/HHV 8): epidemiology, molecular biology and tissue distribution. O'Leary JJ, et al. **Mol Pathol** 1997 Feb;50(1):4–8 (49 ref.)

Propagation of a human herpesvirus from AIDS–associated Kaposi's sarcoma [letter; comment] Blauvelt A, et al. **N Engl J Med** 1997 Jun 19;336(25):1837–9. Comment on: N Engl J Med 1997 Jan 16;336(3):163–71.

Absence of herpesvirus in AIDS–associated smooth–muscle tumors [letter] Jenson HB, et al. **N Engl J Med** 1996 Nov 28;335(22):1690

Kaposi's sarcoma–associated herpesvirus–like DNA sequences (KSHV/HHV–8) in oral AIDS–Kaposi's sarcoma: a PCR and clinicopathologic study. Flaitz CM, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997 Feb;83(2):259–64

Occurrence of human herpes virus 8 in Kaposi's sarcoma and other tumours in South Africa [letter] Sitas F, et al. **S Afr Med J** 1997 Aug;87(8):1020, 1022

Human herpes virus–8 DNA in bronchoalveolar lavage samples from patients with AIDS–associated pulmonary Kaposi's sarcoma. Benfield TL, et al. **Scand J Infect Dis** 1997;29(1):13–6

HHV–8 is associated with recurrent Kaposi's sarcoma in a renal transplant recipient [letter] Noel JC, et al. **Transpl Int** 1997;10(1):81–2

Absence of Kaposi's sarcoma–associated human herpes virus 8 in transplantation–related tumors other than Kaposi's sarcoma. Cathomas G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):836–7

[Detection of human herpesvirus 8 (HHV 8) in Kaposi sarcomas of the gastrointestinal tract] Cathomas G, et al. **Schweiz Med Wochenschr** 1997 Jun 7;127(23):988–91 (Eng. Abstr.) **(Ger)**

[Current aspects of Kaposi sarcoma virus (news)] **Schweiz Rundsch Med Prax** 1996 Sep 17;85(38):1189 **(Ger)**

[Kaposi sarcoma–associated herpesvirus; human herpesvirus 8] Kemény L, et al. **Orv Hetil** 1997 Apr 20;138(16):979–83 (49 ref.) (Eng. Abstr.) **(Hun)**

PATHOGENICITY

Childhood infections with human herpesviruses types 6, 7, and 8. Grose C. **Adv Pediatr Infect Dis** 1996;12:181–208 (69 ref.)

Kaposi's sarcoma–-associated herpesvirus: a newly recognized pathogen. Boshoff C, et al. **AIDS Clin Rev** 1997–98;:323–47 (108 ref.)

Viruses in the pathogenesis of Kaposi's sarcoma–-a review. Kempf W, et al. **Biochem Mol Med** 1996 Jun;58(1):1–12 (116 ref.)

Kaposi's Sarcoma (KS)–associated herpesvirus and its role in KS. Chang Y, et al. **Infect Agents Dis** 1996 Oct; 5(4):215–22 (71 ref.)

Human herpesvirus type–8 (HHV–8) in haematopoietic neoplasia. Gaidano G, et al. **Leuk Lymphoma** 1997 Jan; 24(3–4):257–66 (53 ref.)

Human herpes virus 8 (Kaposi's sarcoma herpes virus) and malignant lymphoproliferations in France: a molecular study of 250 cases including two AIDS–associated body cavity based lymphomas. Gessain A, et al. **Leukemia** 1997 Feb;11(2):266–72

Causing cancer by remote control? [news; comment] Gura T. **Science** 1997 Jun 20;276(5320):1788–9. Comment on: Science 1997 Jun 20;276(5320):1851–4.

Kaposi's sarcoma–associated herpesvirus infection of bone marrow dendritic cells from multiple myeloma patients [see comments] Rettig MB, et al. **Science** 1997 Jun 20; 276(5320):1851–4. Comment in: Science 1997 Jun 20;276(5320):1788–9.

Kaposi's sarcoma and HHV–8 [letter] Offermann MK. **Trends Microbiol** 1996 Nov;4(11):419

PHYSIOLOGY

High prevalence of cutaneous viral infections in AIDS patients with Kaposi's sarcoma: insight into the role of human herpesvirus 8? [letter] Simonart T, et al. **AIDS** 1997 May;11(6):824–6

Kaposi's sarcoma and herpesvirus 8: a word of caution [letter] Simonart T, et al. **Dermatology** 1996;193(3):272

A Kaposi's sarcoma–associated herpesvirus–encoded cytokine homolog (vIL–6) activates signaling through the shared gp130 receptor subunit. Molden J, et al. **J Biol Chem** 1997 Aug 1;272(31):19625–31

No evidence of KSHV/HHV–8 in mycosis fungoides or associated disorders. Henghold WB 2nd, et al. **J Invest Dermatol** 1997 Jun;108(6):920–2

Monocytes in Kaposi's sarcoma lesions are productively infected by human herpesvirus 8. Blasig C, et al. **J Virol** 1997 Oct;71(10):7963–8

Selective switch between latency and lytic replication of Kaposi's sarcoma herpesvirus and Epstein–Barr virus in dually infected body cavity lymphoma cells. Miller G, et al. **J Virol** 1997 Jan;71(1):314–24

Activation of HHV–8 by HIV–1 tat [letter] Harrington W Jr, et al. **Lancet** 1997 Mar 15;349(9054):774–5

Propagation of a human herpesvirus from AIDS–associated Kaposi's sarcoma [see comments] Foreman KE, et al. **N Engl J Med** 1997 Jan 16;336(3):163–71. Comment in: N Engl J Med 1997 Jan 16;336(3):214–5. Comment in: N Engl J Med 1997 Jun 19;336(25):1837–9.

Propagating Kaposi's sarcoma–associated herpesvirus [editorial; comment] Mocarski ES Jr. **N Engl J Med** 1997 Jan 16;336(3):214–5. Comment on: N Engl J Med 1997 Jan 16;336(3):163–71.

ULTRASTRUCTURE

Visualization of human herpesvirus type 8 in Kaposi's sarcoma by light and transmission electron microscopy. Orenstein JM, et al. **AIDS** 1997 Apr;11(5):F35–45

HERPESVIRUS 1, MURINE see **MUROMEGALOVIRUS**

HERPESVIRUS PLATYRHINAE see **SIMPLEXVIRUS**

HERPESVIRUS SAIMIRI see **HERPESVIRUS 2, SAIMIRINE**

HERPESVIRUS 1, SAIMIRINE see **SIMPLEXVIRUS**

HERPESVIRUS 2, SAIMIRINE

Generation of CD4+ and CD8+ T–cell clones from PBLs of HIV–1 infected subjects using herpesvirus saimiri. Saha K, et al. **Nat Med** 1996 Nov;2(11):1272–5

CHEMISTRY

Genetic variation of herpesvirus saimiri subgroup A transforming protein and its association with cellular src. Lee H, et al. **J Virol** 1997 May;71(5):3817–25

GENETICS

Herpesvirus saimiri CD59–-baculovirus expression and characterisation of complement inhibitory activity. Bramley JC, et al. **Biochem Soc Trans** 1997 May;25(2):354S

Identification of a cis–acting element within the herpesvirus saimiri ORF 6 promoter that is responsive to the HVS.R transactivator. Whitehouse A, et al. **J Gen Virol** 1997 Jun; 78 (Pt 6):1411–5

Herpesvirus saimiri encodes a functional homolog of the human bcl–2 oncogene. Nava VE, et al. **J Virol** 1997 May; 71(5):4118–22

The herpesvirus saimiri ORF50 gene, encoding a transcriptional activator homologous to the Epstein–Barr virus R protein, is transcribed from two distinct promoters of different temporal phases. Whitehouse A, et al. **J Virol** 1997 Mar;71(3):2550–4

Use of virion DNA as a cloning vector for the construction of mutant and recombinant herpesviruses. Duboise SM, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11389–94

Bovine herpesvirus 4: genomic organization and relationship with two other gammaherpesviruses, Epstein–Barr virus and herpesvirus saimiri. Lomonte P, et al. **Vet Microbiol** 1996 Nov;53(1–2):79–89 (43 ref.)

IMMUNOLOGY

Chemokine receptors and chemokine–inducing molecules of lymphotropic herpesviruses [letter] Meinl E, et al. **Immunol Today** 1996 Apr;17(4):199

Herpes virus saimiri transformation of T cells in CD3 gamma immunodeficiency: phenotypic and functional characterization. Rodríguez–Gallego C, et al. **J Immunol Methods** 1996 Nov 13;198(2):177–86

Improvement of Herpesvirus saimiri T cell immortalization procedure to generate multiple CD4+ T–cell clones from peripheral blood lymphocytes of AIDS patients. Saha K, et al. **J Immunol Methods** 1997 Aug 7;206(1–2):21–3

Functional phenotype of transformed human alphabeta and gammadelta T cells determined by different subgroup C strains of herpesvirus Saimiri. Fickenscher H, et al. **J Virol** 1997 Mar;71(3):2252–63

ISOLATION & PURIFICATION

Functional phenotype of transformed human alphabeta and gammadelta T cells determined by different subgroup C strains of herpesvirus Saimiri. Fickenscher H, et al. **J Virol** 1997 Mar;71(3):2252–63

[Absence of herpesvirus saimiri STPC oncogene in salivary gland tumors and epithelial thymus tumors] Gattenlöhner S, et al. **Verh Dtsch Ges Pathol** 1996;80:312–7 (Eng. Abstr.) **(Ger)**

METABOLISM

Enhanced downregulation of Lck–mediated signal transduction by a Y114 mutation of herpesvirus Saimiri tip. Guo J, et al. **J Virol** 1997 Sep;71(9):7092–6

Herpesvirus saimiri Tip–484 membrane protein markedly increases p56lck activity in T cells. Lund T, et al. **J Virol** 1997 Jan;71(1):378–82

Activation of STAT transcription factors by herpesvirus Saimiri Tip–484 requires p56lck. Lund TC, et al. **J Virol** 1997 Sep;71(9):6677–82

PATHOGENICITY

Herpesvirus saimiri immortalization of alpha beta and gamma delta human T–lineage cells derived from CD34+ intrathymic precursors in vitro. Pacheco–Castro A, et al. **Int Immunol** 1996 Nov;8(11):1797–805

PHYSIOLOGY

Derivation of herpesvirus saimiri–transformed CD8+ T cell lines with noncytotoxic anti–HIV activity. Mackewicz CE, et al. **Clin Immunol Immunopathol** 1997 Mar;82(3):274–81

Herpesvirus saimiri–immortalized human T–cells support long–term, high titred replication of human immunodeficiency virus types 1 and 2. Vella C, et al. **J Gen Virol** 1997 Jun;78 (Pt 6):1405–9

Herpesvirus saimiri–transformed human CD4+ T cells can provide polyclonal B cell help via the CD40 ligand as well as the TNF–alpha pathway and through release of lymphokines. Saha K, et al. **J Immunol** 1996 Nov 1; 157(9):3876–85

Generation of herpes virus saimiri–transformed T–cell lines from macaques is restricted by reactivation of simian spuma viruses. Feldmann G, et al. **Virology** 1997 Mar 3; 229(1):106–12

Growth transformation of antigen–specific T cell lines from rhesus monkeys by herpesvirus saimiri. Meinl E, et al. **Virology** 1997 Mar 3;229(1):175–82

HERPESVIRUS SIMIAE see **HERPESVIRUS 1, CERCOPITHECINE**

HERPESVIRUS 1, SUID

Immunohistopathological characterization of pig pneumonia caused by a combined Aujeszky's disease virus and Actinobacillus pleuropneumoniae infection. Narita M, et al. **J Comp Pathol** 1997 Jul;117(1):25–33

Pseudorabies virus as a neuroanatomical tracer [editorial; comment] Jasmin L. **J Neurovirol** 1995 Dec;1(5–6):326–7 . Comment on: J Neurovirol 1995 Dec;1(5–6):349–58. Comment on: J Neurovirol 1995 Dec;1(5–6):359–68.

Analysis of upregulated cellular genes in pseudorabies virus infection: use of mRNA differential display. Hsiang CY, et al. **J Virol Methods** 1996 Oct;62(1):11–9

Interneurons presynaptic to rat tail–flick motoneurons as mapped by transneuronal transport of pseudorabies virus: few have long ascending collaterals. Jasmin L, et al. **Neuroscience** 1997 Feb;76(3):859–76

Infection of pigs by aerosols of Aujeszky's disease virus and their shedding of the virus. Gillespie RR, et al. **Res Vet Sci** 1996 May;60(3):228–33

CHEMISTRY

Unidirectional complementation between glycoprotein B homologues of pseudorabies virus and bovine herpesvirus 1 is determined by the carboxy–terminal part of the molecule. Miethke A, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1623–35

Bovine herpesvirus 1 glycoprotein B does not productively interact with cell surface heparan sulfate in a pseudorabies virion background. Klupp BG, et al. **J Virol** 1997 Jun; 71(6):4838–41

DRUG EFFECTS

Antiviral activity of crude extracts of Guarea guidona. Simoni IC, et al. **Braz J Med Biol Res** 1996 May; 29(5):647–50

HERPESVIRUS 1, SUID

ENZYMOLOGY

Identification of a pseudorabies virus UL12 (deoxyribonuclease) gene. Hsiang CY, et al. **Gene** 1996 Oct 24;177(1–2):109–13

The US3–encoded protein kinase from pseudorabies virus affects egress of virions from the nucleus. Wagenaar F, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1851–9

GENETICS

In vivo studies on Aujeszky's disease virus mutants. Boldogkói Z, et al. **Acta Microbiol Immunol Hung** 1996; 43(4):307–18

Identification and transcriptional analysis of pseudorabies virus UL6 to UL12 genes. Dijkstra JM, et al. **Arch Virol** 1997;142(1):17–35

Specificity and nucleotyping studies of a gp50–based polymerase chain reaction assay for detection of pseudorabies virus. Harding MJ, et al. **Can J Vet Res** 1997 Apr;61(2):157–60

Analysis of pseudorabies virus genes by cDNA sequencing. Ho TY, et al. **Gene** 1996 Oct 10;175(1–2):247–51

Unidirectional complementation between glycoprotein B homologues of pseudorabies virus and bovine herpesvirus 1 is determined by the carboxy–terminal part of the molecule. Miethke A, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1623–35

The US3–encoded protein kinase from pseudorabies virus affects egress of virions from the nucleus. Wagenaar F, et al. **J Gen Virol** 1995 Jul;76 (Pt 7):1851–9

Dendritic morphology of cardiac related medullary neurons defined by circuit–specific infection by a recombinant pseudorabies virus expressing beta–galactosidase. Standish A, et al. **J Neurovirol** 1995 Dec;1(5–6):359–68

A pseudorabies virus mutant with deletions in the latency and early protein O genes: replication, virulence, and immunity in neonatal piglets. Wesley RD, et al. **J Vet Diagn Invest** 1996 Jan;8(1):21–4

Protective immunity of bovine herpesvirus–1 (BHV–1) recombinants which express pseudorabies virus (PRV) glycoproteins gB, gC, gD and gE. Otsuka H, et al. **J Vet Med Sci** 1996 Sep;58(9):819–24

Identification and characterization of pseudorabies virus glycoprotein gM as a nonessential virion component. Dijkstra JM, et al. **J Virol** 1996 Aug;70(8):5684–8

Pseudorabies virus recombinants expressing functional virulence determinants gE and gI from bovine herpesvirus 1.1. Knapp AC, et al. **J Virol** 1997 Apr;71(4):2731–9

Isolation of gE gene deleted pseudorabies virus by using a gE specific monoclonal antibody. Chang AC, et al. **J Virol Methods** 1996 Jun;60(1):19–28

A double–strand break in a herpesvirus genome stimulates targeted homologous recombination with exogenous, cloned viral sequences. Ryan P, et al. **J Virol Methods** 1996 Mar;57(1):95–107

Attenuation of dUTPase–deficient pseudorabies virus for the natural host. Jöns A, et al. **Vet Microbiol** 1997 May; 56(1–2):47–54

Study of the delivery of the gD gene of pseudorabies virus to one–day–old piglets by adenovirus or plasmid DNA as ways to by–pass the inhibition of immune response by colostral antibodies. Le Potier MF, et al. **Vet Microbiol** 1997 Apr;55(1–4):75–80

Necrotic oophoritis in gilts associated with experimental inoculation of a viral gene–deletion mutant pseudorabies vaccine. Parker RF, et al. **Vet Pathol** 1997 May; 34(3):199–203

The BamHI fragment 9 of pseudorabies virus contains genes homologous to the UL24, UL25, UL26, and UL 26.5 genes of herpes simplex virus type 1. Dezélée S, et al. **Virus Res** 1996 Jun;42(1–2):27–39

GROWTH & DEVELOPMENT

Influence of infectious dose upon productive replication and transynaptic passage of pseudorabies virus in rat central nervous system [see comments] Card JP, et al. **J Neurovirol** 1995 Dec;1(5–6):349–58. Comment in: J Neurovirol 1995 Dec;1(5–6):326–7.

IMMUNOLOGY

Field trial to evaluate the immunogenicity of pseudorabies virus vaccines with deletions for glycoproteins G and E. Firkins LD, et al. **Am J Vet Res** 1997 Sep;58(9):976–84

Lack of serum antibodies against glycoprotein E in pseudorabies virus–immune pigs infected with wild–type virus. Jacobs L, et al. **Am J Vet Res** 1996 Nov; 57(11):1525–8

Comparison of the protective response induced by NYVAC vaccinia recombinants expressing either gp50 or gII and gp50 of pseudorabies virus. Brockmeier SL, et al. **Can J Vet Res** 1996 Oct;60(4):315–7

An indirect double–antibody sandwich enzyme–linked immunosorbent assay (ELISA) using baculovirus–expressed antigen for the detection of antibodies to glycoprotein E of pseudorabies virus and comparison of the method with blocking ELISAs. Kimman TG, et al. **Clin Diagn Lab Immunol** 1996 Mar;3(2):167–74

Protection of pigs against Aujeszky's disease by DNA vaccination. Gerdts V, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2139–46

Optimization of murine CD8+ cytotoxic T–lymphocyte responses to pseudorabies virus. Depierreux C, et al. **J Immunol Methods** 1997 Apr 11;203(1):77–88

Immunolocalization of the pseudorabies virus immediate–early protein IE180 by immunoperoxidase staining. Huang C, et al. **J Virol Methods** 1997 Jul; 66(2):219–26

The influence of maternal immunity on the transmission of pseudorabies virus and on the effectiveness of vaccination. Bouma A, et al. **Vaccine** 1997 Feb;15(3):287–94

Comparison of the protective efficacy of recombinant pseudorabies viruses against pseudorabies and classical swine fever in pigs; influence of different promoters on gene expression and on protection. Hooft van Iddekinge BJ, et al. **Vaccine** 1996 Jan;14(1):6–12

No major outbreaks of pseudorabies virus in well–immunized sow herds. Van Nes A, et al. **Vaccine** 1996 Aug; 14(11):1042–4

Immunobiology of pseudorabies (Aujeszky's disease). Mettenleiter TC. **Vet Immunol Immunopathol** 1996 Nov; 54(1–4):221–9

Antibody titers to pseudorabies virus in piglets immunized with gIII deleted pseudorabies vaccine in a pseudorabies infected herd. Elvinger F, et al. **Vet Microbiol** 1994 Dec; 42(4):341–8

Evaluation of tests for detection of antibodies to Aujeszky's disease (pseudorabies) virus glycoprotein E in the target population. Stegeman A, et al. **Vet Microbiol** 1997 Apr; 55(1–4):107–11

Evaluation of parenteral vaccination methods with glycoproteins against Aujeszky's disease in pigs. Vanderpooten A, et al. **Vet Microbiol** 1997 Apr; 55(1–4):81–9

No massive spread of pseudorabies virus in vaccinated sow herds. Van Nes A, et al. **Vet Microbiol** 1997 Apr; 55(1–4):147–51

Vaccination strategies for improving the efficacy of programs to eradicate Aujeszky's disease virus. Visser N. **Vet Microbiol** 1997 Apr;55(1–4):61–74 (38 ref.)

Eradication of Aujeszky's disease virus from a Swedish pig herd using gI–/TK–vaccine. Engel M, et al. **Vet Rec** 1997 May 10;140(19):493–5

Genetic immunization of seronegative one–day–old piglets against pseudorabies induces neutralizing antibodies but not protection and is ineffective in piglets from immune dams. Monteil M, et al. **Vet Res** 1996;27(4–5):443–52

Detection of lymphoproliferative responses against pseudorabies virus immediate early protein (IE180) in swine immunized with a modified live virus vaccine. Garmendia AE, et al. **Viral Immunol** 1996;9(4):247–56

ISOLATION & PURIFICATION

Specificity and nucleotyping studies of a gp50–based polymerase chain reaction assay for detection of pseudorabies virus. Harding MJ, et al. **Can J Vet Res** 1997 Apr;61(2):157–60

Distribution of Aujeszky's disease virus in experimentally infected mink (Mustela vison). Quiroga MI, et al. **DTW Dtsch Tierarztl Wochenschr** 1997 Apr;104(4):147–50

Neurons in the rat brain and spinal cord labeled after pseudorabies virus injected into the external urethral sphincter. Nadelhaft I, et al. **J Comp Neurol** 1996 Nov 18; 375(3):502–17

Immunohistochemical demonstration of the spread of pneumotropic strain 4892 of Aujeszky's disease virus in conventional pigs. Segalés J, et al. **J Comp Pathol** 1997 May;116(4):387–95

CNS innervation of the urinary bladder demonstrated by immunohistochemical study for c–fos and pseudorabies virus. Park M, et al. **J Korean Med Sci** 1997 Aug; 12(4):340–52

Pathologic changes in closed porcine intestinal loops inoculated with Aujeszky's disease virus. Zhao Y, et al. **J Vet Med Sci** 1996 Aug;58(8):809–10

Rapid screening of pseudorabies virus–specific cDNAs from a cDNA library. Ho TY, et al. **J Virol Methods** 1996 Apr 26;58(1–2):187–92

Video imaging of firefly luciferase activity to identify and monitor herpesvirus infection in cell culture. Mettenleiter TC, et al. **J Virol Methods** 1996 May;59(1–2):155–60

A fluorescence–based quantitative PCR method for investigation of pseudorabies virus latency. Thiery R, et al. **J Virol Methods** 1996 Sep;61(1–2):79–87

Detection of pseudorabies virus genomic sequences in apparently uninfected 'single reactor' pigs. Bascuñana CR, et al. **Vet Microbiol** 1997 Apr;55(1–4):37–47

Comparison of two pseudorabies virus vaccines, that differ in capacity to reduce virus excretion after a challenge infection, in their capacity of reducing transmission of pseudorabies virus. Bouma A, et al. **Vet Microbiol** 1997 Feb;54(2):113–22

Isolation and characterisation of an Aujeszky's disease virus naturally infecting a wild boar (Sus scrofa). Capua I, et al. **Vet Microbiol** 1997 Apr;55(1–4):141–6

Evaluation of serological tests for the detection of pseudorabies gE antibodies during early infection. Kinker DR, et al. **Vet Microbiol** 1997 Apr;55(1–4):99–106

Effect of the concentration of maternal antibodies on the neural invasion of Aujeszky's disease virus in neonatal pigs. Kritas SK, et al. **Vet Microbiol** 1997 Apr;55(1–4):29–36

Genital infection and transmission of pseudorabies virus in feral swine in Florida, USA. Romero CH, et al. **Vet Microbiol** 1997 Apr;55(1–4):131–9

Estimating the rate of pseudorabies virus introduction into pig–finishing herds at regional level. Stegeman A, et al. **Vet Q** 1997 Mar;19(1):5–9

[Detection of the Aujeszky disease virus by nested polymerase chain reaction] Aminev AG, et al. **Mol Biol (Mosk)** 1997 May–Jun;31(3):564–7 **(Rus)**

METABOLISM

The UL20 gene product of pseudorabies virus functions in virus egress. Fuchs W, et al. **J Virol** 1997 Jul;71(7):5639–46

The pseudorabies virus UL51 gene product is a 30–kilodalton virion component. Lenk M, et al. **J Virol** 1997 Jul; 71(7):5635–8

Adaptability in herpesviruses: glycoprotein D–independent infectivity of pseudorabies virus. Schmidt J, et al. **J Virol** 1997 Jan;71(1):17–24

Discrete cleavage patterns of pseudorabies virus immediate early protein (IE180) seen in some cell lines upon extraction after cycloheximide reversal. Garmendia AE, et al. **J Virol Methods** 1997 Mar;64(2):171–9

PATHOGENICITY

Transmission of two pseudorabies virus strains that differ in virulence and virus excretion in groups of vaccinated pigs. Bouma A, et al. **Am J Vet Res** 1996 Jan;57(1):43–7

Interference activity of bovine herpes virus 1 strains against Aujeszky's disease virus in cell cultures. Peshev R, et al. **Comp Immunol Microbiol Infect Dis** 1997 Feb;20(2):171–5

Glycoprotein gH of pseudorabies virus is essential for penetration and propagation in cell culture and in the nervous system of mice. Babic N, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2277–85

Deletion of glycoprotein gM of pseudorabies virus results in attenuation for the natural host. Dijkstra JM, et al. **J Gen Virol** 1997 Sep;78 (Pt 9):2147–51

Differential tropism of pseudorabies virus for sensory neurons in the cat. Card JP, et al. **J Neurovirol** 1997 Feb;3(1):49–61

Pseudorabies virus glycoprotein L is necessary for virus infectivity but dispensable for virion localization of glycoprotein H. Klupp BG, et al. **J Virol** 1997 Oct; 71(10):7687–95

Characterization of pseudorabies virus mutants expressing carboxy–terminal truncations of gE: evidence for envelope incorporation, virulence, and neurotropism domains. Tirabassi RS, et al. **J Virol** 1997 Sep;71(9):6455–64

Effect of the concentration of maternal antibodies on the neural invasion of Aujeszky's disease virus in neonatal pigs. Kritas SK, et al. **Vet Microbiol** 1997 Apr;55(1–4):29–36

Functional aspects of Aujeszky's disease (pseudorabies) viral proteins with relation to invasion, virulence and immunogenicity. Nauwynck HJ. **Vet Microbiol** 1997 Apr; 55(1–4):3–11 (48 ref.)

Pseudorabies virus infections in pigs. Role of viral proteins in virulence, pathogenesis and transmission. Mulder WA, et al. **Vet Res** 1997;28(1):1–17 (142 ref.)

Replication and pathogenicity after intranasal and intracranial inoculation of swine with a recombinant pseudorabies virus containing a deletion at the UL/IR junction. Dean HJ, et al. **Virology** 1996 Sep 1;223(1):19–28

PHYSIOLOGY

Biological properties of three Mexican isolates of Aujeszky's disease virus. González Gallardo S, et al. **Arch Med Res** 1997 Autumn;28(3):349–54

Neuroanatomy of cardiac activity–regulating circuitry: a transneuronal retrograde viral labelling study in the rat. Ter Horst GJ, et al. **Eur J Neurosci** 1996 Oct;8(10):2029–41

Latency characteristics of an EPO and LLT mutant of pseudorabies virus. Cheung AK. **J Vet Diagn Invest** 1996 Jan;8(1):112–5

Ultrastructural analysis of the replication cycle of pseudorabies virus in cell culture: a reassessment. Granzow H, et al. **J Virol** 1997 Mar;71(3):2072–82

Pseudorabies virus glycoprotein L is necessary for virus infectivity but dispensable for virion localization of glycoprotein H. Klupp BG, et al. **J Virol** 1997 Oct; 71(10):7687–95

The gE and gI homologs from two alphaherpesviruses have conserved and divergent neuroinvasive properties. Knapp AC, et al. **J Virol** 1997 Aug;71(8):5820–7

Green fluorescent protein expressed by recombinant pseudorabies virus as an in vivo marker for viral replication. Jöns A, et al. **J Virol Methods** 1997 Jul;66(2):283–92

The central neural pathways involved in micturition in the neonatal rat as revealed by the injection of pseudorabies virus into the urinary bladder. Sugaya K, et al. **Neurosci Lett** 1997 Feb 28;223(3):197–200

Neurons lying in the white matter of the upper cervical spinal cord project to the intermediolateral cell column. Jansen AS, et al. **Neuroscience** 1997 Apr;77(3):889–98

Virus inactivation by pepsin treatment at pH 4 of IgG solutions: factors affecting the rate of virus inactivation. Omar A, et al. **Transfusion** 1996 Oct;36(10):866–72

Effect of maternally acquired Aujeszky's disease (pseudorabies) virus–specific antibody in pigs on establishment of latency and seroconversion to differential glycoproteins after low dose challenge. McCaw MB, et al. **Vet Microbiol** 1997 Apr;55(1–4):91–8

Recent developments in latency and recombination of Aujeszky's disease (pseudorabies) virus. Maes RK, et al. **Vet Microbiol** 1997 Apr;55(1–4):13–27 (48 ref.)

Functional aspects of Aujeszky's disease (pseudorabies) viral proteins with relation to invasion, virulence and immunogenicity. Nauwynck HJ. **Vet Microbiol** 1997 Apr; 55(1–4):3–11 (48 ref.)

Negative regulation of immediate–early gene expression of pseudorabies virus by interferon–alpha. Tonomura N, et al. **Vet Microbiol** 1996 Dec;53(3–4):271–81

ULTRASTRUCTURE

Ultrastructural analysis of the replication cycle of pseudorabies virus in cell culture: a reassessment. Granzow H, et al. **J Virol** 1997 Mar;71(3):2072–82

HERPESVIRUS VARICELLAE see **HERPESVIRUS 3, HUMAN**

HERPESVIRUS 8, HUMAN see **HERPESVIRUS, KAPOSI'S SARCOMA-ASSOCIATED**

HERPETOMONAS see **TRYPANOSOMATINA**

HERS' DISEASE see **GLYCOGEN STORAGE DISEASE TYPE VI**

HERTZIAN WAVES see **RADIO WAVES**

HESPERIDIN

ADMINISTRATION & DOSAGE

Chemoprevention of azoxymethane–induced rat colon carcinogenesis by the naturally occurring flavonoids, diosmin and hesperidin. Tanaka T, et al. **Carcinogenesis** 1997 May;18(5):957–65

Micronized flavonoid therapy in internal hemorrhoids of pregnancy. Buckshee K, et al. **Int J Gynaecol Obstet** 1997 May;57(2):145–51

ANALOGS & DERIVATIVES

Validated high–performance liquid chromatographic method for quantitation of neohesperidine dihydrochalcone in foodstuffs. Montijano H, et al. **J Chromatogr A** 1997 Jan 10;758(1):163–6

ISOLATION & PURIFICATION

[Chemical constituents of Gossampinus malabarica (L.) Merr. (II)] Qi Y, et al. **Chung Kuo Chung Yao Tsa Chih** 1996 Apr;21(4):234–5, 256 (Eng. Abstr.) **(Chi)**

PHARMACOLOGY

Effects of oral administration of purified micronized flavonoid fraction on increased microvascular permeability induced by various agents and on ischemia/reperfusion in the hamster cheek pouch. Bouskela E, et al. **Angiology** 1997 May;48(5):391–9

Microvascular reactivity after ischemia/reperfusion in the hamster cheek pouch: beneficial effects of different oral doses of S–5682 (Daflon 500 mg). Bouskela E, et al. **Angiology** 1997 Jan;48(1):33–7

Venous elasticity after treatment with Daflon 500 mg. Ibegbuna V, et al. **Angiology** 1997 Jan;48(1):45–9

Modulation of N–methyl–N–amylnitrosamine–induced rat oesophageal tumourigenesis by dietary feeding of diosmin and hesperidin, both alone and in combination. Tanaka T, et al. **Carcinogenesis** 1997 Apr;18(4):761–9

THERAPEUTIC USE

Proceedings of the XII World Congress of the International Union of Phlebology—parallel session entitled medical and socioeconomic impact of venolymphatic disease: benefit of daflon 500 mg. London, 1995. **Angiology** 1997 Jan; 48(1):21–98

Efficacy of Daflon 500 mg in venous leg ulcer healing: a double–blind, randomized, controlled versus placebo trial in 107 patients. Guilhou JJ, et al. **Angiology** 1997 Jan; 48(1):77–85

Efficacy of Daflon 500 mg in the treatment of lymphedema (secondary to conventional therapy of breast cancer). Pecking AP, et al. **Angiology** 1997 Jan;48(1):93–8

Chemoprevention of 4–nitroquinoline 1–oxide–induced oral carcinogenesis in rats by flavonoids diosmin and hesperidin, each alone and in combination. Tanaka T, et al. **Cancer Res** 1997 Jan 15;57(2):246–52

[The drug therapy of chronic venous insufficiency (a trial of the clinical use of the preparation Detralex)] Iablokov EG, et al. **Ter Arkh** 1996;68(10):80–1 (Eng. Abstr.) **(Rus)**

HESPEROMYINAE

Regional differences in the pineal gland of the cotton rat, Sigmodon hispidus: light microscopic, electron microscopic, and immunohistochemical observations. Sakai Y, et al. **J Pineal Res** 1996 Apr;20(3):125–37

BLOOD

Environmental, age, and sex effects on cotton rat (Sigmodon hispidus) hematology. Robel GL, et al. **J Wildl Dis** 1996 Apr;32(2):390–4

PARASITOLOGY

A time–course study of circulating antigen and parasite–specific antibody in cotton rats infected with Leishmania donovani. Azazy AA, et al. **Ann Trop Med Parasitol** 1997 Mar;91(2):153–62

Ultrastructure of the alimentary tract of third–stage larvae of Litomosoides carinii. Ogbogu VC, et al. **J Helminthol** 1996 Sep;70(3):223–9

Flea (Siphonaptera:Ceratophyllidae, hystrichopsyllidae) and tick (Acarina:Ixodidae) control on wood rats using host–targeted liquid permethrin in bait tubes. Gage KL, et al. **J Med Entomol** 1997 Jan;34(1):46–51

Ectoparasite fauna of the eastern woodrat, Neotoma floridana: composition, origin, and comparison with ectoparasite faunas of western woodrat species. Durden LA, et al. **J Parasitol** 1997 Jun;83(3):374–81

Activities of glycogen phosphorylase, alanine aminotransferase and aspartate aminotransferase in adult worms of Litomosoides carinii recovered from pyridoxine deficient cotton rats (Sigmodon hispidus). Beg MA, et al. **Parasitology** 1996 Feb;112 (Pt 2):227–32

[Contribution to the study of Microphallidae travassos, 1920 (Trematoda). XLVI. Description of Floridatrema heardi n. gen., n. sp., parasite of Oryzomys palustris (Mammalia) of the United States] Kinsella JM, et al. **Parasite** 1994 Mar; 1(1):45–50 (Eng. Abstr.) **(Fre)**

PHYSIOLOGY

The cotton rat in biomedical research. Faith RE, et al. **Lab Anim Sci** 1997 Aug;47(4):337–45 (90 ref.)

URINE

Chlorine–36 in fossil rat urine: an archive of cosmogenic nuclide deposition during the past 40,000 years. Plummer MA, et al. **Science** 1997 Jul 25;277(5325):538–41

VIROLOGY

Isolation and characterization of Whitewater Arroyo virus, a novel North American arenavirus. Fulhorst CF, et al. **Virology** 1996 Oct 1;224(1):114–20

HESPEROMYINES see **HESPEROMYINAE**

HESW see **HIGH–ENERGY SHOCK WAVES**

HETASTARCH

Hydroxyethyl starch: safe or not? Warren BB, et al. **Anesth Analg** 1997 Jan;84(1):206–12 (43 ref.)

Stabilization of dry membranes by mixtures of hydroxyethyl starch and glucose: the role of vitrification. Crowe JH, et al. **Cryobiology** 1997 Aug;35(1):20–30

Volume replacement with gelatin or hydroxyethylstarch solutions does not impair somatosensory evoked potential monitoring: a haemodilution study in conscious volunteers. Detsch O, et al. **Eur J Anaesthesiol** 1996 Nov;13(6):599–605

Gastric intramucosal pH changes after volume replacement with hydroxyethyl starch or crystalloid in patients undergoing elective abdominal aortic aneurysm repair. Marik PE, et al. **J Crit Care** 1997 Jun;12(2):51–5

Effect of crystalloid and colloid solutions on blood rheology in sepsis. Castro VJ, et al. **Shock** 1997 Aug;8(2):104–7

ADMINISTRATION & DOSAGE

Isovolaemic haemodilution with hydroxyethylstarch has no effect on somatosensory evoked potentials in healthy volunteers. Detsch O, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):665–70

Preoperative acute hypervolemic hemodilution with hydroxyethylstarch: an alternative to acute normovolemic hemodilution? Mielke LL, et al. **Anesth Analg** 1997 Jan; 84(1):26–30

Prevention of hypotension during spinal anesthesia: a comparison of intravascular administration of hetastarch versus lactated Ringer's solution. Sharma SK, et al. **Anesth Analg** 1997 Jan;84(1):111–4

Perioperative volume effect of HES 120/0.7 compared with dextran 70 and Ringer acetate. Hiippala S, et al. **Ann Chir Gynaecol** 1996;85(4):333–9

Volume expansion during cardiopulmonary resuscitation reduces cerebral no–reflow. Fischer M, et al. **Resuscitation** 1996 Oct;32(3):227–40 (66 ref.)

Treatment of refractory intracranial hypertension in severe traumatic brain injury with repetitive hypertonic/hyperoncotic infusions. Härtl R, et al. **Zentralbl Chir** 1997;122(3):181–5

[Open heart surgery without homologous blood transfusion for tetralogy of Fallot—use of hydroxyethyl starch diminishes the necessity of protein transfusion] Takahashi Y, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 May; 45(5):694–9 (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Coagulopathy induced by hydroxyethyl starch. Baldassarre S, et al. **Anesth Analg** 1997 Feb;84(2):451–3

Intraoperative hetastarch infusion impairs hemostasis after cardiac operations. Cope JT, et al. **Ann Thorac Surg** 1997 Jan;63(1):78–82; discussion 82–3

Persistent itching due to etherified starch plasma expander. Speight EL, et al. **BMJ** 1997 May 17;314(7092):1466–7

Persistent pruritus after hydroxyethyl starch infusion therapy: a result of long–term storage in cutaneous nerves. Metze D, et al. **Br J Dermatol** 1997 Apr;136(4):553–9

Clinical and pathophysiological aspects of hydroxyethyl starch–induced pruritus: evaluation of 96 cases. Gall H, et al. **Dermatology** 1996;192(3):222–6

Highly substituted hydroxyethyl starch (HES200/0.62) leads to Type–I von Willebrand syndrome after repeated administration. Treib J, et al. **Haemostasis** 1996 Jul–Aug; 26(4):210–3

Hydroxyethyl starch [letter; comment] Treib J, et al. **J Neurosurg** 1997 Mar;86(3):574–5. Comment on: J Neurosurg 1996 Aug;85(2):367; discussion 368.

Hetastarch Coagulopathy [letter; comment] Treib J, et al. **J Neurosurg** 1996 Aug;85(2):367–8; discussion 368. Comment on: J Neurosurg 1995 Jan;82(1):44–7.

Hetastarch coagulopathy [letter; comment] [see comments] van Den Brink WA, et al. **J Neurosurg** 1996 Aug;85(2):367; discussion 368. Comment on: J Neurosurg 1995 Jan;82(1):44–7. Comment in: J Neurosurg 1997 Mar;86(3):574–5.

Hydroxyethylstarch and osmotic nephrosis–like lesions in kidney transplants [letter] Bernard C, et al. **Lancet** 1996 Dec 7;348(9041):1595

Effect of hydroxyethylstarch in brain–dead kidney donors on renal function in kidney–transplant recipients [see comments] Cittanova ML, et al. **Lancet** 1996 Dec 14; 348(9042):1620–2. Comment in: Lancet 1997 Mar 22;349(9055):883–4; discussion 884. Comment in: Lancet 1997 Mar 22;349(9055):884; discussion 884.

Hydroxyethylstarch and renal function in kidney transplant recipients [letter; comment] Coronel B, et al. **Lancet** 1997 Mar 22;349(9055):884; discussion 884. Comment on: Lancet 1996 Dec 14;348(9042):1620–2.

Hydroxyethylstarch and renal function in kidney transplant recipients [letter; comment] Holzheimer R. **Lancet** 1997 Mar 22;349(9055):883–4; discussion 884. Comment on: Lancet 1996 Dec 14;348(9042):1620–2.

[Use of hydroxyethyl starch in patients with renal insufficiency] Dieterich HJ. **Anaesthesist** 1996 Oct; 45(10):995 **(Ger)**

[Effect of hydroxyethyl starch solution on kidney function in surgical intensive care patients] Dehne MG, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jun; 32(6):348–54 (Eng. Abstr.) **(Ger)**

[Bronchospasm due to anaphylactic reaction to Hydroxyethyl starch (HESPANDER)] Takada M, et al. **Masui** 1997 Mar; 46(3):397–400 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Conjugation of the Bowman–Birk soybean proteinase inhibitor with hydroxyethylstarch. Larionova NI, et al. **Appl Biochem Biotechnol** 1997 Feb–Mar;62(2–3):175–82

CLASSIFICATION

A more differentiated classification of hydroxyethyl starches is necessary [letter] Treib J, et al. **Intensive Care Med** 1997 Jun;23(6):709–10

DIAGNOSTIC USE

Evaluation of hydroxyethyl–starch–ferrioxamine as an intravascular MR contrast agent for assessment of myocardial perfusion. Tian G, et al. **Acta Radiol Suppl** 1997; 412:85–90

Blood volume determination using hydroxyethyl starch: a rapid and simple intravenous injection method [see comments] Tschaikowsky K, et al. **Crit Care Med** 1997 Apr;25(4):599–606. Comment in: Crit Care Med 1997 Apr;25(4):566.

Blood volume determination using hydroxyethyl starch [editorial; comment] Weil MH. **Crit Care Med** 1997 Apr; 25(4):566. Comment on: Crit Care Med 1997 Apr;25(4):599–606.

ECONOMICS

European hydroxyethyl starch: a safe and inexpensive alternative to albumin [letter] Treib J, et al. **Anesth Analg** 1997 Sep;85(3):709

IMMUNOLOGY

Effects of resuscitation fluids on nonadaptive immune responses. Sillett HK, et al. **Transfusion** 1997 Sep; 37(9):953–9

PHARMACOKINETICS

Molecular distribution of hetastarch in plasma and lung lymph of unanesthetized sheep. Korent VA, et al. **Am J Respir Crit Care Med** 1997 Apr;155(4):1302–8

Pulmonary vascular filtration of starch–based macromolecules: effects on lung fluid balance. McGrath AM, et al. **J Surg Res** 1996 Oct;65(2):128–34

[Elimination of hydroxyethyl starch after autologous retransfusion of cryopreserved erythrocytes] Sputtek A, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:215–9 (Eng. Abstr.) **(Ger)**

PHARMACOLOGY

Oncotic, hemodilutional, and hemostatic effects of isotonic saline and hydroxyethyl starch solutions in clinically

normal ponies. Jones PA, et al. **Am J Vet Res** 1997 May; 58(5):541–8

Avoiding an impairment of factor VIII:C by using hydroxyethyl starch with a low in vivo molecular weight [letter; comment] Treib J, et al. **Anesth Analg** 1997 Jun; 84(6):1391. Comment on: Anesth Analg 1996 Oct;83(4):804–7.

Influence of low and medium molecular weight hydroxyethyl starch on platelets during a long–term hemodilution in patients with cerebrovascular diseases. Treib J, et al. **Arzneimittelforschung** 1996 Nov;46(11):1064–6

Dextran and hydroxyethyl starch interfere with fibrinogen assays. Hiippala ST. **Blood Coagul Fibrinolysis** 1995 Dec; 6(8):743–6

Effects of pentastarch–deferoxamine conjugate on lung injury after cardiopulmonary bypass. Stamler A, et al. **Circulation** 1996 Nov 1;94(9 Suppl):II358–63

Deletion of hydroxyethylstarch from University of Wisconsin solution induces cell shrinkage and proteolysis during and after cold storage of rat liver. Neveux N, et al. **Hepatology** 1997 Mar;25(3):678–82

Effects of hydroxyethyl starch–deferoxamine on arachidonic acid metabolism and small bowel wall perfusion in early sepsis. Schröppel B, et al. **J Invest Surg** 1997 Jul–Aug; 10(4):173–82

The long–acting parenteral iron chelator, hydroxyethyl starch–deferoxamine, fails to protect against alcohol–induced liver injury in rats. Sadrzadeh SM, et al. **J Pharmacol Exp Ther** 1997 Feb;280(2):1038–42

Assessment of microvascular integrity in the isolated perfused rat liver by contrast–enhanced MRI. Attenuation of reperfusion injury by conjugated deferoxamine. Colet JM, et al. **Magn Reson Med** 1996 Nov;36(5):753–7

[Acute effects of complete blood exchange with ultra–purified hemoglobin solution or hydroxyethyl starch on liver and kidney in the animal model] Standl T, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):354–61 (Eng. Abstr.) **(Ger)**

[Lipid peroxidation and hemolysis in HES cryopreserved erythrocytes] Langer R, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:111–6 (Eng. Abstr.) **(Ger)**

[A comparative study of the effectiveness of 5% human albumin and 10% hydroxyethyl starch (HAES–steril) for correcting hemodynamics and O2 transport in surgical interventions] Hankeln K, et al. **Anesteziol Reanimatol** 1997 Jan–Feb;(1):23–6 (Eng. Abstr.) **(Rus)**

THERAPEUTIC USE

The effects of desmopressin and 6% hydroxyethyl starch on factor VIII:C [see comments] Conroy JM, et al. **Anesth Analg** 1996 Oct;83(4):804–7. Comment in: Anesth Analg 1997 Jun;84(6):1391.

Types of colloid therapy in critically ill patients [letter; comment] Gallagher JT. **Anesth Analg** 1997 Feb; 84(2):470–1. Comment on: Anesth Analg 1996 Aug;83(2):254–61.

Study of therapeutic efficiency of new blood substitutes in experimental hemorrhagic shock. Kochetygov NI, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):685–91

Treatment of massive hemorrhage with liposome encapsulated human hemoglobin (NRC) and hydroxyethyl starch (HES) in beagles. Takaori M, et al. **Artif Cells Blood Substit Immobil Biotechnol** 1996 Nov; 24(6):643–53

Use of modified fluid gelatin and hydroxyethyl starch for colloidal volume replacement in major orthopaedic surgery. Beyer R, et al. **Br J Anaesth** 1997 Jan;78(1):44–50

Hextend (hetastarch solution) decreases multiple organ injury and xanthine oxidase release after hepatoenteric ischemia–reperfusion in rabbits. Nielsen VG, et al. **Crit Care Med** 1997 Sep;25(9):1565–74

Influence of low molecular weight hydroxyethyl starch (HES 40/0.5–0.55) on hemostasis and hemorheology. Treib J, et al. **Haemostasis** 1996 Sep–Oct;26(5):258–65

Influence of different volume therapies on platelet function in the critically ill. Boldt J, et al. **Intensive Care Med** 1996 Oct;22(10):1075–81

Use of sodium hetastarch (Hespan) solution for reduction of postoperative adhesion formation in rabbits. Gist RS, et al. **J Invest Surg** 1996 Sep–Oct;9(5):369–73

Resuscitation from hemorrhagic shock with diaspirin cross–linked hemoglobin, blood, or hetastarch. DeAngeles DA, et al. **J Trauma** 1997 Mar;42(3):406–12; discussion 412–4

The effect of hetastarch on serum colloid oncotic pressure in hypoalbuminemic dogs. Moore LE, et al. **J Vet Intern Med** 1996 Sep–Oct;10(5):300–3

Global tissue oxygenation during normovolaemic haemodilution in young children. Aly Hassan A, et al. **Paediatr Anaesth** 1997;7(3):197–204

[Deferoxamine–conjugated hydroxyethyl starch reduces reperfusion injury to the liver following hemorrhagic shock] Bauer C, et al. **Anaesthesist** 1997 Jan;46(1):53–6 (Eng. Abstr.) **(Ger)**

TOXICITY

Increased haemorrhagic risk after repeated infusion of highly substituted medium molecular weight hydroxyethyl starch. Treib J, et al. **Arzneimittelforschung** 1997 Jan;47(1):18–22

HETE see **HYDROXYEICOSATETRAENOIC ACIDS**

5,12–HETE see **LEUKOTRIENE B4**

12–HETE see **12–HYDROXY–5,8,10,14–EICOSATETRAENOIC ACID**

12–R–HETE see **12–HYDROXY–5,8,10,14–EICOSATETRAENOIC ACID**

12–S–HETE see **12–HYDROXY–5,8,10,14–EICOSATETRAENOIC ACID**

HETEROANTIBODIES see **ANTIBODIES, HETEROPHILE**

HETEROANTIGENS see **ANTIGENS, HETEROPHILE**

HETEROCHROMATIN

Alpha and beta heterochromatin in polytene chromosome 2 of Drosophila melanogaster. Koryakov DE, et al. **Chromosoma** 1996 Dec;105(5):310–9

Comparative analysis on the distribution of heterochromatin in Citrus, Poncirus and Fortunella chromosomes. Miranda M, et al. **Chromosome Res** 1997 Apr;5(2):86–92

Genomic imprinting of chromatin in Drosophila melanogaster. Bishop CP, et al. **Genetica** 1996 Jan; 97(1):33–7

The heterochromatic rolled gene of Drosophila melanogaster is extensively polytenized and transcriptionally active in the salivary gland chromocenter. Berghella L, et al. **Genetics** 1996 Sep;144(1):117–25

Copy number and orientation determine the susceptibility of a gene to silencing by nearby heterochromatin in Drosophila. Sabl JF, et al. **Genetics** 1996 Feb;142(2):447–58

[Chromocenter organization in salivary glands of the malaria mosquito Anopheles messeae Fall.] Sharakhova MV, et al. **Genetika** 1997 Feb;33(2):196–201 (Eng. Abstr.) **(Rus)**

[Polymorphism of pericentromere heterochromatin of polytene chromosomes of ovarian trophocytes in natural populations of the malaria mosquito Anopheles messeae Fall.] Sharakhova MV, et al. **Genetika** 1997 Feb;33(2):281–3 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Cytological evidence for 5–azacytidine–induced demethylation of the heterochromatic regions of human chromosomes. de Capoa A, et al. **Chromosome Res** 1996 Jun;4(4):271–6

Characterization of DNA sequences constituting the terminal heterochromatin of the chicken Z chromosome. Hori T, et al. **Chromosome Res** 1996 Sep;4(6):411–26

Cytophotometric determination of heterochromatin base composition in interphase nuclei of plant cells. Cavallini A, et al. **Eur J Histochem** 1996;40(4):283–8

The compaction of mouse heterochromatin as studied by nuclease digestion. Horvath P, et al. **FEBS Lett** 1981 Nov 2;134(1):25–8

Human MxB protein, an interferon–alpha–inducible GTPase, contains a nuclear targeting signal and is localized in the heterochromatin region beneath the nuclear envelope. Melén K, et al. **J Biol Chem** 1996 Sep 20;271(38):23478–86

[Structure of blocks of pericentromeric heterochromatin at chromosomes 3 and 4 in pseudonurse cells from larvae of Drosophila melanogaster line OTU] Sharakhov IV, et al. **Dokl Akad Nauk** 1997 Mar;353(2):281–3 **(Rus)**

GENETICS

Heterochromatin and gene expression in Drosophila. Weiler KS, et al. **Annu Rev Genet** 1995;29:577–605 (137 ref.)

Heterochromatin effects on the frequency and duration of LCR–mediated gene transcription. Milot E, et al. **Cell** 1996 Oct 4;87(1):105–14

Molecular cytogenetic characterisation of the terminal heterochromatic segment of the B–chromosome of rye (Secale cereale). Houben A, et al. **Chromosoma** 1996 Aug; 105(2):97–103

Heterochromatin and ribosomal genes in Asellus aquaticus (Crust. Isop.). Barzotti R, et al. **Chromosome Res** 1996 Apr; 4(3):177–81

Cytogenetics of the genus Leporinus (Pisces, Anostomidae). 1. Karyotype analysis, heterochromatin distribution and sex chromosomes. Koehler MR, et al. **Chromosome Res** 1997 Feb;5(1):12–22

Molecular cytogenetics of Alstroemeria: identification of parental genomes in interspecific hybrids and characterization of repetitive DNA families in constitutive heterochromatin. Kuipers AG, et al. **Chromosome Res** 1997 Feb;5(1):31–9

Analysis of NORs and NOR–associated heterochromatin in the mussel Mytilus galloprovincialis Lmk. Martínez–Expósito MJ, et al. **Chromosome Res** 1997 Jun; 5(4):268–73

Distribution and linkage of repetitive clusters from the heterochromatic region of human chromosome 22. Müllenbach R, et al. **Chromosome Res** 1996 Jun;4(4):282–7

Molecular characterization of the complex sex–chromosome heterochromatin in the rodent Microtus chrotorrhinus. Ivanov SV, et al. **Cytogenet Cell Genet** 1996;75(1):49–56

Mammalian homologues of the Polycomb–group gene Enhancer of zeste mediate gene silencing in Drosophila heterochromatin and at S. cerevisiae telomeres. Laible G, et al. **EMBO J** 1997 Jun 2;16(11):3219–32

Occurrence of DNA sequence differences in C–heterochromatin of Eulemur coronatus and Eulemur macaco, as revealed by fluorescence resonance energy transfer. Ronchetti E, et al. **Eur J Histochem** 1997; 41(2):79–90

Heterochromatin variation in chromosome X in a natural population of Anopheles willmori (Diptera: Culicidae) of Thailand. Baimai V, et al. **Genetica** 1996 Mar;97(2):235–9

Competition between different variegating rearrangements for limited heterochromatic factors in Drosophila melanogaster. Lloyd VK, et al. **Genetics** 1997 Apr; 145(4):945–59

Heterochromatic Stellate gene cluster in Drosophila melanogaster: structure and molecular evolution. Tulin AV, et al. **Genetics** 1997 May;146(1):253–62

Intragenomic distribution and stability of transposable elements in euchromatin and heterochromatin of Drosophila melanogaster: non–LTR retrotransposon. Terrinoni A, et al. **J Mol Evol** 1997 Aug;45(2):145–53

A Markov model for the assembly of heterochromatic regions in position effect variegation. Clarke B, et al. **J Theor Biol** 1996 Jul 21;181(2):137–55

High density of an SAR–associated motif differentiates heterochromatin from euchromatin. Strausbaugh LD, et al. **J Theor Biol** 1996 Nov 21;183(2):159–67

The structure of heterochromatic DNA is altered in polyploid cells of Drosophila melanogaster. Glaser RL, et al. **Mol Cell Biol** 1997 Mar;17(3):1254–63

Yet another variation on the theme of chromosome 18 heteromorphisms? [letter] Beverstock GC, et al. **Prenat Diagn** 1997 Jun;17(6):585–6

Molecular characterization of heterochromatic regions around the Tm–2 locus in chromosome 9 of tomato. Motoyoshi F, et al. **Symp Soc Exp Biol** 1996;50:65–70

IMMUNOLOGY

Epitope analysis of chromo antigen and clinical features in a subset of patients with anti–centromere antibodies. Muro Y, et al. **Mol Biol Rep** 1996;23(3–4):147–51

METABOLISM

Pdd1p, a novel chromodomain–containing protein, links heterochromatin assembly and DNA elimination in Tetrahymena. Madireddi MT, et al. **Cell** 1996 Oct 4; 87(1):75–84

SIR2 and SIR4 interactions differ in core and extended telomeric heterochromatin in yeast. Strahl–Bolsinger S, et al. **Genes Dev** 1997 Jan 1;11(1):83–93

alpha–satellite DNA methylation in normal individuals and in ICF patients: heterogeneous methylation of constitutive heterochromatin in adult and fetal tissues. Miniou P, et al. **Hum Genet** 1997 Jun;99(6):738–45

The murine Ki–67 cell proliferation antigen accumulates in the nucleolar and heterochromatic regions of interphase cells and at the periphery of the mitotic chromosomes in a process essential for cell cycle progression. Starborg M, et al. **J Cell Sci** 1996 Jan;109 (Pt 1):143–53

Do transgene arrays form heterochromatin in vertebrates? Dorer DR. **Transgenic Res** 1997 Jan;6(1):3–10 (60 ref.)

ULTRASTRUCTURE

Scanning electron microscopy of heterochromatin in chromosome spreads of male germ cells in Schistocerca gregaria (Acrididae, Orthoptera) after trypsinization. Wolf KW, et al. **Biotech Histochem** 1996 Sep;71(5):237–44

Molecular model for telomeric heterochromatin in yeast. Grunstein M. **Curr Opin Cell Biol** 1997 Jun;9(3):383–7 (42 ref.)

Characterization of heterochromatic regions in 'Trovita' orange (Citrus sinensis Osbeck) chromosomes by the fluorescent staining and FISH methods. Matsuyama T, et al. **Genome** 1996 Oct;39(5):941–5

HETEROCHROMIC CYCLITIS see **IRIDOCYCLITIS**

HETEROCYCLIC COMPOUNDS

Exposure assessment of heterocyclic amines (HCAs) in epidemiologic studies. Sinha R, et al. **Mutat Res** 1997 May 12;376(1–2):195–202

Overview of carcinogenic heterocyclic amines. Sugimura T. **Mutat Res** 1997 May 12;376(1–2):211–9 (62 ref.)

Factors affecting the formation and yield of heterocyclic amines. Skog K, et al. **Princess Takamatsu Symp** 1995; 23:9–19 (23 ref.)

History, present and future, of heterocyclic amines, cooked food mutagens. Sugimura T. **Princess Takamatsu Symp** 1995;23:214–31 (88 ref.)

ADMINISTRATION & DOSAGE

Intravenous MRI contrast enhancement of inflammatory synovium: a dose study. Oliver C, et al. **Br J Rheumatol** 1996 Dec;35 Suppl 3:31–5

ADVERSE EFFECTS

Interplay between heterocyclic amines in cooked meat and metabolic phenotype in the etiology of colon cancer. Vineis

P, et al. **Cancer Causes Control** 1996 Jul;7(4):479–86 (53 ref.)
Allergic contact dermatitis from lanoconazole. Nakano R, et al. **Contact Dermatitis** 1996 Jul;35(1):63
Contact dermatitis from lanoconazole. Tanaka N, et al. **Contact Dermatitis** 1996 Oct;35(4):256–7
Mutagenic heterocyclic aromatic amines (HAAs) in 'processed food flavour' samples. Stavric B, et al. **Food Chem Toxicol** 1997 Feb;35(2):185–97

ANALYSIS

Heterocyclic amines: occurrence and prevention in cooked food. Robbana-Barnat S, et al. **Environ Health Perspect** 1996 Mar;104(3):280–8
Determination of heterocyclic amines in flame-grilled fish patty by capillary electrophoresis. Wu J, et al. **Food Addit Contam** 1996 Oct;13(7):851–61
Effects of marinating on heterocyclic amine carcinogen formation in grilled chicken. Salmon CP, et al. **Food Chem Toxicol** 1997 May;35(5):433–41
Polar and non-polar heterocyclic amines in cooked fish and meat products and their corresponding pan residues. Skog K, et al. **Food Chem Toxicol** 1997 Jun;35(6):555–65
Heterocyclic aromatic amine content in pre-processed meat cuts produced in Canada. Stavric B, et al. **Food Chem Toxicol** 1997 Feb;35(2):199–206
Methods for the determination of mutagenic heterocyclic amines and their applications in environmental analysis. Kataoka H. **J Chromatogr A** 1997 Jul 11;774(1–2):121–42 (159 ref.)
Analysis of foods for heterocyclic aromatic amine carcinogens by solid-phase extraction and high-performance liquid chromatography. Knize MG, et al. **J Chromatogr A** 1997 Feb 28;763(1–2):179–85
Determination of heterocyclic aromatic amines by micellar electrokinetic chromatography with amperometric detection. Olsson JC, et al. **J Chromatogr A** 1997 Mar 28; 765(2):329–35
Liquid chromatography–atmospheric-pressure chemical ionization mass spectrometry as a routine method for the analysis of mutagenic amines in beef extracts. Pais P, et al. **J Chromatogr A** 1997 Aug 22;778(1–2):207–18
Determination of heterocyclic aromatic amines in food products: automation of the sample preparation method prior to HPLC and HPLC–MS quantification. Fay LB, et al. **Mutat Res** 1997 May 12;376(1–2):29–35
Quantitative determination of heterocyclic amines in food products. Gross GA, et al. **Princess Takamatsu Symp** 1995; 23:20–9 (23 ref.)
Mutagenic activity and heterocyclic amine content of the human diet. Knize MG, et al. **Princess Takamatsu Symp** 1995;23:30–8 (37 ref.)
Identification of new mutagenic heterocyclic amines and quantification of known heterocyclic amines. Wakabayashi K, et al. **Princess Takamatsu Symp** 1995;23:39–49 (31 ref.)

BLOOD

[The blood concentration of flurenizid in patients with destructive pulmonary tuberculosis] Panasiuk VO, et al. **Lik Sprava** 1997 Mar–Apr;(2):37–9 (Eng. Abstr.) **(Ukr)**

CHEMICAL SYNTHESIS

Trypanocidal activity of synthetic heterocyclic derivatives of active quinones from Tabebuia sp. Pinto AV, et al. **Arzneimittelforschung** 1997 Jan;47(1):74–9
Synthesis of heterocycles containing two cytosine or two guanine base-pairing sites. Novel tectons for self-assembly. Petersen PM, et al. **Bioorg Med Chem** 1996 Jul;4(7):1107–12
Research on heterocyclic compounds. XXXVIII. Synthesis and pharmacological activity of imidazo[1,2-b]pyridazine-2-carboxylic derivatives. Luraschi E, et al. **Farmaco** 1997 Apr;52(4):213–7
Biodistribution of model 105Rh-labeled tetradentate thiamacrocycles in rats. Li N, et al. **Nucl Med Biol** 1997 Jan;24(1):85–92
The biological activity of two symmetric amine derivatives of the cis-syn-cis triquinane system. Liebenberg W, et al. **Pharmazie** 1996 Jan;51(1):20–4

CHEMISTRY

rel-(1R,6S,7S,8R,9S)-9-methyl-8-phenyl-6-[(1s,2R)-(2-phenylcyclohexyl) oxy]-4-aza-3,5-dioxatricyclo[5.2.1.0(4,9)]decane. Dixon JA, et al. **Acta Crystallogr C** 1996 Oct 15;52 (Pt 10):2561–3
Heterocyclic N-acetoxyarylamines, models for the putative ultimate carcinogens of aromatic amines: 2-acetoxyamino-5-phenylpyridine and 2-acetoxyaminopyridine. Ojala WH, et al. **Acta Crystallogr C** 1997 May 15;53 (Pt 5):634–7
(2aS,3S,6S,7S,7bR)-7-[(dimethylphenyl)-silyl]-2-oxo-6-[(1R,2S)-2-phenylcyclo-hexyloxy]-2a,3,6,7,7a,7b-hexahydro-2H-1,4,5-trioxa-4a- azacyclopenta[cd]indene-3-carboxylic acid 1-methylethyl ester. Thorarensen A, et al. **Acta Crystallogr C** 1996 Oct 15;52 (Pt 10):2558–61
Physical, chemical and biological evaluations of CMD-A2-Gd-DOTA. A new paramagnetic dextran polymer. Corot C, et al. **Acta Radiol Suppl** 1997;412:91–9
Structure-based design of a general class of mechanism-based inhibitors of the serine proteinases employing a novel amino acid-derived heterocyclic scaffold. Groutas WC, et al. **Biochemistry** 1997 Apr 22;36(16):4739–50
Differential contribution of metal complexation and dimerization to the chemotherapeutic potential of bicyclen-Zn2II complex against human immunodeficiency virus. Inouye Y, et al. **Biol Pharm Bull** 1996 Mar; 19(3):456–8
Synthesis of O-glycopyranosyl heterocyclic ketene aminals and their use as glycosyl donors. Li ZJ, et al. **Carbohydr Res** 1996 Dec 13;295:77–89
Questions about grilling [news] **Environ Health Perspect** 1996 Jun;104(6):596–7
A QSAR study of the antimalarial activity of some synthetic 1,2,4-trioxanes. Grigorov M, et al. **J Chem Inf Comput Sci** 1997 Jan–Feb;37(1):124–30
Principal components describing biological activities and molecular diversity of heterocyclic aromatic ring fragments. Gibson S, et al. **J Med Chem** 1996 Sep 27; 39(20):4065–72
Quantitative structure-activity (QSAR) relationships of mutagenic aromatic and heterocyclic amines. Hatch FT, et al. **Mutat Res** 1997 May 12;376(1–2):87–96
In vitro and in vivo evaluation of structure-stability relationship of 111In- and 67Ga-labeled antibody via 1B4M or C-NOTA chelates. Lee J, et al. **Nucl Med Biol** 1997 Apr;24(3):225–30
Complex formation of heterocyclic amines with porphyrins: its use in detection and prevention. Hayatsu H. **Princess Takamatsu Symp** 1995;23:172–80 (14 ref.)

DIAGNOSTIC USE

Ovarian fibroma: findings by contrast-enhanced MRI. Schwartz RK, et al. **Abdom Imaging** 1997 Sep–Oct; 22(5):535–7
Gadoteridol as an alternative contrast agent for retrograde pyelography. Williams JB, et al. **Abdom Imaging** 1997 Mar–Apr;22(2):233–4
Inverse correlation between T1 relaxation times before and after administration of contrast media in malignant brain tumors. Niemi P, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S286–8
Reverse enhancement of hemorrhagic brain lesions on postcontrast MR: detection with digital image subtraction. Gaul HP, et al. **AJNR Am J Neuroradiol** 1996 Oct; 17(9):1675–80
Choice of metal ion and formulation concentration for first-pass brain perfusion studies with magnetic resonance imaging at 1.5 tesla. Runge VM, et al. **Invest Radiol** 1996 Jul;31(7):395–400
Early dynamic magnetic resonance imaging of liver metastases with 0.3 and 0.6 mmol/kg gadoteridol injection. Runge VM, et al. **Invest Radiol** 1996 Aug;31(8):472–8
Renal metastasis. Detection and characterization on enhanced magnetic resonance imaging using an animal model. Runge VM, et al. **Invest Radiol** 1997 Apr;32(4):212–7
Focal nodular hyperplasia of the liver: assessment of hemodynamic and angioarchitectural patterns with gadolinium chelate-enhanced 3D spoiled gradient-recalled MRI and maximum intensity projection reformatted images. Soyer P, et al. **J Comput Assist Tomogr** 1996 Nov-Dec;20(6):898–904
Magnetic resonance imaging evaluation of the ascending aorta after graft-inclusion surgery: comparison between an ultrafast contrast-enhanced MR sequence and conventional cine-MRI. Loubeyre P, et al. **J Magn Reson Imaging** 1996 May-Jun;6(3):478–83
MR arterial portography with gadolinium-DOTA: analysis of nontumoral perfusion abnormalities. Soyer P, et al. **J Magn Reson Imaging** 1996 Mar–Apr;6(2):282–5
Gd-DOTA tubular transit asymmetry induced by angiotensin-converting enzyme inhibitor in experimental renovascular hypertension. Trillaud H, et al. **J Magn Reson Imaging** 1996 Jan–Feb;6(1):149–55
High-dose contrast-enhanced MRI in multiple sclerosis. Koudriavtseva T, et al. **Neuroradiology** 1996 May;38 Suppl 1:S5–9
Hepatic malignancies: usefulness of acquisition of multiple arterial and portal venous phase images at dynamic gadolinium-enhanced MR imaging. Peterson MS, et al. **Radiology** 1996 Nov;201(2):337–45
Fluoroscopically triggered contrast-enhanced three-dimensional MR angiography with elliptical centric view order: application to the renal arteries. Wilman AH, et al. **Radiology** 1997 Oct;205(1):137–46
[Use of gadoteridol in MR diagnosis of rheumatoid changes in the joints] Link TM, et al. **Radiologe** 1996 Feb; 36(2):141–7 (Eng. Abstr.) **(Ger)**

HISTORY

A perspective on the history and significance of carcinogenic and mutagenic N-substituted aryl compounds in human health. Weisburger JH. **Mutat Res** 1997 May 12; 376(1–2):261–6

IMMUNOLOGY

Antibody responses to macrocycles in lymphoma. DeNardo GL, et al. **J Nucl Med** 1996 Mar;37(3):451–6

METABOLISM

Characterization of intracellular copper pools in rat hepatocytes using the chelator diamsar. Bingham MJ, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1400–7
Heterocyclic amines, cytochrome P4501A2, and N-acetyltransferase: issues involved in incorporating putative genetic susceptibility markers into epidemiological studies. Sinha R, et al. **Ann Epidemiol** 1997 Jul;7(5):350–6
Interactions of procarcinogenic heterocyclic amines and indolocarbazoles with the dioxin receptor. Kleman M, et al. **Biol Chem** 1996 Nov;377(11):741–62 (270 ref.)
Reduction of trans-4,5-dihydroxy-1,2-dithiane by cellular oxidoreductases activates gadd153/chop and grp78 transcription and induces cellular tolerance in kidney epithelial cells. Halleck MM, et al. **J Biol Chem** 1997 Aug 29;272(35):21760–6
Naturally occurring diallyl disulfide inhibits the formation of carcinogenic heterocyclic aromatic amines in boiled pork juice. Tsai SJ, et al. **Mutagenesis** 1996 May;11(3):235–40
DNA adducts of heterocyclic amines: formation, removal and inhibition by dietary components. Schut HA, et al. **Mutat Res** 1997 May 12;376(1–2):185–94
The role of xenobiotic metabolizing enzymes in arylamine toxicity and carcinogenesis: functional and localization studies. Windmill KF, et al. **Mutat Res** 1997 May 12; 376(1–2):153–60 (44 ref.)
Enzymatic studies of the activation of heterocyclic food mutagens in man. Boobis AR, et al. **Princess Takamatsu Symp** 1995;23:134–44 (38 ref.)
Mechanisms of cytochrome P450 1A2-mediated formation of N-hydroxy arylamines and heterocyclic amines and their reaction with guanyl residues. Guengerich FP, et al. **Princess Takamatsu Symp** 1995;23:78–84 (32 ref.)
Function and localization of cytochromes P450 involved in the metabolic activation of food-derived heterocyclic amines. McKinnon RA, et al. **Princess Takamatsu Symp** 1995;23:145–53
Superoxide radical generation from heterocyclic amines. Maeda H, et al. **Princess Takamatsu Symp** 1995;23:103–12 (27 ref.)
Activation and effects of the food-derived heterocyclic amines in extrahepatic tissues. Overvik E, et al. **Princess Takamatsu Symp** 1995;23:123–33 (50 ref.)
Possible relationship between tissue distribution of DNA adducts and genotoxicity of food-derived heterocyclic amines. Thorgeirsson SS, et al. **Princess Takamatsu Symp** 1995;23:85–92
Activation and detoxication of carcinogenic arylamines by sulfation. Yamazoe Y, et al. **Princess Takamatsu Symp** 1995; 23:154–62 (47 ref.)

PHARMACOKINETICS

Diffusion into human intervertebral disks studied with MR and gadoteridol. Akansel G, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):443–5
Effect of degeneration of the intervertebral disk on the process of diffusion. Nguyen-minh C, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):435–42
Exposure to and activation of dietary heterocyclic amines in humans. Lynch AM, et al. **Crit Rev Oncol Hematol** 1995 Nov;21(1–3):19–31 (124 ref.)
Biodistribution of model 105Rh-labeled tetradentate thiamacrocycles in rats. Li N, et al. **Nucl Med Biol** 1997 Jan;24(1):85–92
Characterization of in vitro metabolites from human liver microsomes using directly coupled hplc-nmr: application to a phenoxathiin monoamine oxidase-A inhibitor. Shockcor JP, et al. **Xenobiotica** 1996 Jan;26(1):41–8

PHARMACOLOGY

Acute hemodynamic effects of recently developed monomer and dimer magnetic resonance imaging contrast media: a comparative study. Geschwind JF, et al. **Acad Radiol** 1996 Aug;3(8):667–77
The cytotoxicity of 1-(phenylmethyl)-4,7,10-tris-[(4'methylphenyl) sulfonyl]-1,4,7,10-tetraazacyclododecane in human Tmolt3 T leukemic cells. Hall IH, et al. **Anticancer Res** 1997 Mar–Apr;17(2A):1195–8
Antiviral efficacy in vivo of the anti-human immunodeficiency virus bicyclam SDZ SID 791 (JM 3100), an inhibitor of infectious cell entry. Datema R, et al. **Antimicrob Agents Chemother** 1996 Mar;40(3):750–4
The bicyclams, a new class of potent human immunodeficiency virus inhibitors, block viral entry after binding. De Vreese K, et al. **Antiviral Res** 1996 Mar; 29(2–3):209–19
Antiviral activity of the bicyclam derivative JM3100 against drug-resistant strains of human immunodeficiency virus type 1. Esté JA, et al. **Antiviral Res** 1996 Mar; 29(2–3):297–307
Bicyclams, a class of potent anti-HIV agents, are targeted at the HIV coreceptor fusin/CXCR-4. Schols D, et al. **Antiviral Res** 1997 Aug;35(3):147–56
Wound healing effect of the new imidazole antimycotic lanoconazole in rats. Niwano Y, et al. **Arzneimittelforschung** 1996 Feb;46(2):218–23
Inhibition of restriction endonucleases by DNA sequence-reading ligands. Kittler L, et al. **Biochem Mol Biol Int** 1996 Oct;40(2):263–72
Differential contribution of metal complexation and dimerization to the chemotherapeutic potential of bicyclen-Zn2II complex against human immunodeficiency

virus. Inouye Y, et al. **Biol Pharm Bull** 1996 Mar; 19(3):456–8

Preparation and activity of complexes of transition metals and thiolic heterocyclic ligands. Certi Mazza MT, et al. **Boll Soc Ital Biol Sper** 1996 Mar–Apr;72(3–4):79–86

Interaction of microtubules with peroxisomes. Tubular and spherical peroxisomes in HepG2 cells and their alterations induced by microtubule-active drugs. Schrader M, et al. **Eur J Cell Biol** 1996 Jan;69(1):24–35

Synthesis and antimycobacterial activity of some new 3-heterocyclic substituted chromones. Gašparová R, et al. **Farmaco** 1997 Apr;52(4):251–3

Research on heterocyclic compounds. XXXVIII. Synthesis and pharmacological activity of imidazo[1,2-b]pyridazine-2-carboxylic derivatives. Luraschi E, et al. **Farmaco** 1997 Apr;52(4):213–7

Dietary heterocyclic amines as potential human carcinogens: experimental data from nonhuman primates. Thorgeirsson UP, et al. **In Vivo** 1996 Mar–Apr;10(2):145–52

A QSAR study of the antimalarial activity of some synthetic 1,2,4–trioxanes. Grigorov M, et al. **J Chem Inf Comput Sci** 1997 Jan–Feb;37(1):124–30

Physiological effects of a novel bioactive agent. Hass MA, et al. **Pharmacology** 1996 Nov;53(5):320–7

Induction of cytochrome P4501A isozymes by heterocyclic amines and other food-derived compounds. Kleman MI, et al. **Princess Takamatsu Symp** 1995;23:163–71 (37 ref.)

Oxidative DNA damage induced by dioxetanes, photosensitizing ketones, and photo-fenton reagents. Adam W, et al. **Recent Results Cancer Res** 1997;143:21–34 (40 ref.)

THERAPEUTIC USE

Heterocyclic alkylphospholipids with an improved therapeutic range. Hilgard P, et al. **Adv Exp Med Biol** 1996; 416:157–64 (6 ref.)

[The results of a clinical trial of flurenizid in phthisiopulmonology practice] Il'nyts'kyĭ IH, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):67–9 (Eng. Abstr.) **(Ukr)**

TOXICITY

Neurotoxicity of contrast media for magnetic resonance imaging after generalized breakdown of the blood–brain barrier. Evill CA, et al. **Acad Radiol** 1996 Aug;3 Suppl 2:S336–8

Quantitative structure–activity relationship studies of selected heterocyclic nitrogen compounds. Chen J, et al. **Bull Environ Contam Toxicol** 1997 Mar;58(3):372–9

Human exposure to carcinogenic heterocyclic amines and their mutational fingerprints in experimental animals. Nagao M, et al. **Environ Health Perspect** 1996 May;104 Suppl 3:497–501 (31 ref.)

Enhancement of hepatocarcinogenesis by combined administration of food-derived heterocyclic amines at low doses in the rat. Hasegawa R, et al. **Food Chem Toxicol** 1996 Nov–Dec;34(11–12):1097–101

Analysis of synergism in hepatocarcinogenesis based on preneoplastic foci induction by 10 heterocyclic amines in the rat. Hasegawa R, et al. **Jpn J Cancer Res** 1996 Nov; 87(11):1125–33

Inhibition of the genotoxic effects of heterocyclic amines in human derived hepatoma cells by dietary bioantimutagens. Sanyal R, et al. **Mutagenesis** 1997 Jul;12(4):297–303

Health risks of heterocyclic amines. Felton JS, et al. **Mutat Res** 1997 May 12;376(1–2):37–41 (25 ref.)

Genetic changes induced by heterocyclic amines. Nagao M, et al. **Mutat Res** 1997 May 12;376(1–2):161–7 (43 ref.)

Heterocyclic amine mutagenicity/carcinogenicity: influence of repair, metabolism, and structure. Felton JS, et al. **Princess Takamatsu Symp** 1995;23:50–8 (25 ref.)

Enhancement of rat liver cell foci development by combined treatment with heterocyclic amines at low doses. Ito N, et al. **Princess Takamatsu Symp** 1995;23:251–9

Activation and effects of the food-derived heterocyclic amines in extrahepatic tissues. Overvik E, et al. **Princess Takamatsu Symp** 1995;23:123–33 (50 ref.)

Dietary modulation of the carcinogenicity of the heterocyclic amines. Weisburger JH, et al. **Princess Takamatsu Symp** 1995;23:240–50

HETEROCYCLIC CPDS, BICYCLIC see **BICYCLO COMPOUNDS, HETEROCYCLIC**

HETEROCYCLIC N-OXIDES see **CYCLIC N-OXIDES**

HETEROCYCLIC P-OXIDES see **CYCLIC P-OXIDES**

HETEROCYCLIC S-OXIDES see **CYCLIC S-OXIDES**

HETERODUPLEXES, NUCLEIC ACID see **NUCLEIC ACID HETERODUPLEXES**

HETEROGENEOUS NUCLEAR RNA see **RNA, HETEROGENEOUS NUCLEAR**

HETEROGRAFT see **TRANSPLANTATION, HETEROLOGOUS**

HETEROGRAFT BIOPROSTHESIS see **BIOPROSTHESIS**

HETEROGRAFT DRESSINGS see **BIOLOGICAL DRESSINGS**

HETEROLOGOUS ANTIBODIES see **ANTIBODIES, HETEROPHILE**

HETEROLOGOUS ANTIGENS see **ANTIGENS, HETEROPHILE**

HETEROPHILE ANTIBODIES see **ANTIBODIES, HETEROPHILE**

HETEROPHILE ANTIGENS see **ANTIGENS, HETEROPHILE**

HETEROPHYES see **HETEROPHYIDAE**

HETEROPHYIDAE

Heterophyid eggs in human stool samples in Assam: first report for India. Mahanta J, et al. **J Commun Dis** 1995 Sep;27(3):142–5

Intestinal pathologic findings at early stage infection by Centrocestus armatus in albino rats. Hong SJ, et al. **Korean J Parasitol** 1997 Jun;35(2):135–8

CLASSIFICATION

Ascocotyle (A.) nunezae n. sp. (Digenea: Heterophyidae) from Yucatan, Mexico. Scholz T, et al. **J Parasitol** 1997 Feb;83(1):141–7

Classification and host specificity of Metagonimus spp. from Korean freshwater fish. Rim HJ, et al. **Korean J Parasitol** 1996 Mar;34(1):7–14

HETEROPNEUSTES see **CATFISH**

HETEROSEXUALITY see **SEXUALITY**

HETEROSIS see **HYBRID VIGOR**

HETEROTOPIC TISSUE see **CHORISTOMA**

HETEROZYGOTE

Dystrophin-associated protein abnormalities in dystrophin-deficient muscle fibers from symptomatic and asymptomatic Duchenne/Becker muscular dystrophy carriers. Di Blasi C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):369–77

Heterozygous alpha 1-antitrypsin phenotypes in patients with end stage liver disease. Eigenbrodt ML, et al. **Am J Gastroenterol** 1997 Apr;92(4):602–7

Fatty liver in a case with heterozygous familial hypobetalipoproteinemia [see comments] Ogata H, et al. **Am J Gastroenterol** 1997 Feb;92(2):339–42 (18 ref.). Comment in: Am J Gastroenterol 1997 Aug;92(8):1400–2.

Novel mutations and DNA-based screening in non-Jewish carriers of Tay-Sachs disease. Akerman BR, et al. **Am J Hum Genet** 1997 May;60(5):1099–106

Short alleles revealed by PCR demonstrate no heterozygote deficiency at minisatellite loci D1S7, D7S21, and D12S11. Alonso S, et al. **Am J Hum Genet** 1997 Feb;60(2):417–25

Atypical Friedreich ataxia caused by compound heterozygosity for a novel missense mutation and the GAA triplet-repeat expansion [letter] Bidichandani SI, et al. **Am J Hum Genet** 1997 May;60(5):1251–6

PCR-based screening for cystic fibrosis carrier mutations in an ethnically diverse pregnant population. Grody WW, et al. **Am J Hum Genet** 1997 Apr;60(4):935–47

Study of a single BRCA2 mutation with high carrier frequency in a small population [see comments] Thorlacius S, et al. **Am J Hum Genet** 1997 May;60(5):1079–84. Comment in: Am J Hum Genet 1997 May;60(5):1013–20.

Henoch–Schönlein purpura with immunoglobulin A nephropathy and abnormalities of immunoglobulin A in a Wiskott–Aldrich syndrome carrier. Lasseur C, et al. **Am J Kidney Dis** 1997 Feb;29(2):285–7

Resistance to recombinant erythropoietin in a hemodialysis patient with heterozygous hemoglobinopathy J–Meinung. Tarng DC, et al. **Am J Kidney Dis** 1997 May;29(5):769–72 (26 ref.)

Tissue-specific methylation differences and cognitive function in fragile X premutation females. Allingham-Hawkins DJ, et al. **Am J Med Genet** 1996 Aug 9;64(2):329–33

New findings in the behavioral profile of young FraX females. Borghgraef M, et al. **Am J Med Genet** 1996 Aug 9;64(2):346–9

Normal age of menarche in fragile X syndrome [letter] Burgess B, et al. **Am J Med Genet** 1996 Aug 9;64(2):376

Duchenne muscular dystrophy and idiopathic hyperCKemia in a family causing confusion in genetic counselling [letter; comment] Bushby K, et al. **Am J Med Genet** 1996 Dec 11;66(2):237–8. Comment on: Am J Med Genet 1995 Sep 11;58(3):209–12.

Risk perception after CF carrier testing and impact of the test result on reproductive decision making. Denayer L, et al. **Am J Med Genet** 1997 Apr 14;69(4):422–8

Unusual xanthomas in a young patient with heterozygous familial hypercholesterolemia and type III hyperlipoproteinemia. Feussner G, et al. **Am J Med Genet** 1996 Oct 16;65(2):149–54

Fragile-X carrier females: evidence for a distinct psychopathological phenotype? Franke P, et al. **Am J Med Genet** 1996 Aug 9;64(2):334–9

Segmental forms of autosomal dominant skin disorders: different types of severity reflect differe t states of zygosity [letter] Happle R. **Am J Med Genet** 1996 Dec 11; 66(2):241–2

Genetic counseling of isolated carriers of Duchenne muscular dystrophy. Hoffman EP, et al. **Am J Med Genet** 1996 Jun 28;63(4):573–80

Successful pregnancy in a fragile X carrier by donor egg [letter] Howard-Peebles PN. **Am J Med Genet** 1996 Aug 9;64(2):377

The number of CGG repeats of the FMR1 locus in premutated and fully mutated heterozygotes and their offspring: implications for the origin of mosaicism. Mingroni-Netto RC, et al. **Am J Med Genet** 1996 Aug 9;64(2):270–3

Confirmation of early menopause in fragile X carriers. Partington MW, et al. **Am J Med Genet** 1996 Aug 9; 64(2):370–2

Presence of hemoglobinopathies in Sicily: a historic perspective. Schilirò G, et al. **Am J Med Genet** 1997 Mar 17;69(2):200–6

Proband and parent assistance in identifying relatives for cystic fibrosis carrier testing. Sorenson JR, et al. **Am J Med Genet** 1996 Jun 14;63(3):419–25

FRAXA premutation associated with premature ovarian failure. Vianna-Morgante AM, et al. **Am J Med Genet** 1996 Aug 9;64(2):373–5

Fetal carriers of the factor V Leiden mutation are prone to miscarriage and placental infarction. Dizon-Townson DS, et al. **Am J Obstet Gynecol** 1997 Aug;177(2):402–5

Different physiological traits underlying increased body fat of fatty (fa/fa) and heterozygous (+/fa) rats. Schwarzer K, et al. **Am J Physiol** 1997 Jan;272(1 Pt 1):E100–6

Markedly prolonged paralysis after mivacurium in a patient apparently heterozygous for the atypical and usual pseudocholinesterase alleles by conventional biochemical testing. Rosenberg MK, et al. **Anesth Analg** 1997 Feb; 84(2):457–60

The meiotic pairing behaviour in human spermatocytes carrier of chromosome anomalies and their repercussions on reproductive fitness. II. Robertsonian and reciprocal translocations. A European collaborative study. Gabriel-Robez O, et al. **Ann Genet** 1996;39(1):17–25

Age-specific incidence rates of venous thromboembolism among heterozygous carriers of factor V Leiden mutation. Ridker PM, et al. **Ann Intern Med** 1997 Apr 1;126(7):528–31

alpha 1-Antichymotrypsin as a risk modifier for late-onset Alzheimer's disease in Japanese apolipoprotein E epsilon 4 allele carriers. Yoshiiwa A, et al. **Ann Neurol** 1997 Jul; 42(1):115–7

Double heterozygosity of chromosomal inversion in mice: a key to speciation. Rumpler Y. **Arch Anat Histol Embryol** 1993–94;75:101–10

Analysis of microsatellite instability and loss of heterozygosity in keratoacanthoma. Peris K, et al. **Arch Dermatol Res** 1997 Mar;289(4):185–8

Patients' attitudes toward detection of heterozygous familial hypercholesterolemia. Andersen LK, et al. **Arch Intern Med** 1997 Mar 10;157(5):553–60

Norrie disease in a family with a manifesting female carrier. Sims KB, et al. **Arch Ophthalmol** 1997 Apr;115(4):517–9

Decreased production and increased catabolism of apolipoprotein B-100 in apolipoprotein B-67/B-100 heterozygotes. Welty FK, et al. **Arterioscler Thromb Vasc Biol** 1997 May;17(5):881–8

Heterozygous hepatic lipase deficiency, due to two missense mutations R186H and L334F, in the HL gene. Knudsen P, et al. **Atherosclerosis** 1997 Feb 10;128(2):165–74

Vitamin D receptor: no evidence for allele-specific mRNA stability in cells which are heterozygous for the Taq I restriction enzyme polymorphism. Verbeek W, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):77–80

Rapid screening of transgenic type II and type XI collagen knock-out mice with three-primer PCR. Busler DE, et al. **Biotechniques** 1996 Dec;21(6):1002–4

Genetic and clinical description of hemochromatosis probands and heterozygotes: evidence that multiple genes linked to the major histocompatibility complex are responsible for hemochromatosis. Barton JC, et al. **Blood Cells Mol Dis** 1997;23(1):135–45; discussion 145a–b

Heterozygous oim mice exhibit a mild form of osteogenesis imperfecta. Saban J, et al. **Bone** 1996 Dec;19(6):575–9

Microsatellite instability and loss of heterozygosity in mammary carcinoma and its probable precursors. Dillon EK, et al. **Br J Cancer** 1997;76(2):156–62

MYCL genotypes and loss of heterozygosity in non-small-cell lung cancer. Fong KM, et al. **Br J Cancer** 1996 Dec;74(12):1975–8

Deletion mapping on chromosome 10q25-q26 in human endometrial cancer. Nagase S, et al. **Br J Cancer** 1996 Dec; 74(12):1979–83

Loss of heterozygosity at the 5,10-methylenetetrahydrofolate reductase locus in human ovarian carcinomas. Viel A, et al. **Br J Cancer** 1997;75(8):1105–10

Atypical HbH disease in a Surinamese patient resulting from a combination of the -SEA and -alpha 3.7 deletions with HbC heterozygosity. Giordano PC, et al. **Br J Haematol** 1997 Mar;96(4):801–5

HbC compound heterozygotes [HbC/Hb Riyadh and

HbC/Hb N-Baltimore] with opposing effects upon HbC crystallization. Hirsch RE, et al. **Br J Haematol** 1997 May; 97(2):259–65

The obstetric experience of carriers of haemophilia. Kadir RA, et al. **Br J Obstet Gynaecol** 1997 Jul;104(7):803–10

Histopathology of the retinal pigment epithelium of a female carrier of choroideremia. MacDonald IM, et al. **Can J Ophthalmol** 1997 Aug;32(5):329–33

Evidence for genetic heterogeneity in familial Wilms' tumor. Huff V, et al. **Cancer Res** 1997 May 15;57(10):1859–62

Somatic mutations of the RET proto-oncogene are not required for tumor development in multiple endocrine neoplasia type 2 (MEN 2) gene carriers. Landsvater RM, et al. **Cancer Res** 1996 Nov 1;56(21):4853–5

Control of beta-thalassaemia by carrier screening, genetic counselling and prenatal diagnosis: the Sardinian experience. Cao A, et al. **Ciba Found Symp** 1996; 197:137–51; discussion 151–5 (32 ref.)

Compound heterozygosity for a structural apolipoprotein A-I variant, apo A-I(L141R)Pisa, and an apolipoprotein A-I null allele in patients with absence of HDL cholesterol, corneal opacifications, and coronary heart disease. Miccoli R, et al. **Circulation** 1996 Oct 1;94(7):1622–8

Possible mechanism of anhidrosis in a symptomatic female carrier of Fabry's disease: an assessment by skin sympathetic nerve activity and sympathetic skin response. Yamamoto K, et al. **Clin Auton Res** 1996 Apr;6(2):107–10

Elevated sulfatide excretion in compound heterozygotes of metachromatic leukodystrophy and ASA-pseudodeficiency allele. Lugowska A, et al. **Clin Biochem** 1997 Jun;30(4):325–31

Investigation of the loss of heterozygosity and familial segregation by PCR in retinoblastoma. Yazici H, et al. **Clin Biochem** 1996 Dec;29(6):595–8

Heterozygous and homozygous factor H deficiency states in a Dutch family. Fijen CA, et al. **Clin Exp Immunol** 1996 Sep;105(3):511–6

Risk estimates for balanced reciprocal translocation carriers—prenatal diagnosis experience. Barišić I, et al. **Clin Genet** 1996 Mar;49(3):145–51

Little phenotypic variability in three CF sibs compound heterozygous for the 621 + 1G-->T and the 711 + 1G-->T mutations. De Braekeleer M, et al. **Clin Genet** 1997 Mar;51(3):214–6

The CF carrier status is not associated with a diminished self-concept or increased anxiety: results of psychometric testing after at least 1 year. Denayer L, et al. **Clin Genet** 1996 May;49(5):232–6

Carrier identification of X-linked adrenoleukodystrophy by measurement of very long chain fatty acids and lignoceric acid oxidation. Inoue K, et al. **Clin Genet** 1996 Nov; 50(5):348–52

A G-1-to-A acceptor splice site LDLR mutant allele leads to reduced relative transcript levels in patients with heterozygous familial hypercholesterolemia. Jensen HK, et al. **Clin Genet** 1996 Apr;49(4):175–9

Carrier screening for cystic fibrosis in primary care: evaluation of a project in South Wales. The South Wales Cystic Fibrosis Carrier Screening Research Team. Payne Y, et al. **Clin Genet** 1997 Mar;51(3):153–63

Jumping translocation in a phenotypically normal female. von Ballestrem CL, et al. **Clin Genet** 1996 Mar;49(3):156–9

Loss of heterozygosity analysis in a human fibrosarcoma cell line. Gupta PK, et al. **Cytogenet Cell Genet** 1997; 76(3–4):214–8

Fatal clinical course of ornithine transcarbamylase deficiency in an adult heterozygous female patient. Heringlake S, et al. **Digestion** 1997;58(1):83–6

APRT: a versatile in vivo resident reporter of local mutation and loss of heterozygosity. Stambrook PJ, et al. **Environ Mol Mutagen** 1996;28(4):471–82

Carrier detection by microsatellite haplotyping in 10 properdin type 1-deficient families. Fijen CA, et al. **Eur J Clin Invest** 1996 Oct;26(10):902–6

The antifibrinolytic effect of lipoprotein(a) in heterozygous subjects is modulated by the relative concentration of each of the apolipoprotein(a) isoforms and their affinity for fibrin. Hervio L, et al. **Eur J Clin Invest** 1996 May; 26(5):411–7

Adolescents' attitude towards carrier testing for cystic fibrosis [letter; comment] Mélançon MJ, et al. **Eur J Hum Genet** 1996;4(6):305–6. Comment on: Eur J Hum Genet 1996;4(1):52–62.

Mice heterozygous for a deletion of the tumor necrosis factor-alpha and lymphotoxin-alpha genes: biological importance of a nonlinear response of tumor necrosis factor-alpha to gene dosage. Amiot F, et al. **Eur J Immunol** 1997 Apr;27(4):1035–42

Atrophy and loss of dopaminergic mesencephalic neurons in heterozygous weaver mice. Verina T, et al. **Exp Brain Res** 1997 Jan;113(1):5–12

Unexpectedly low loss of heterozygosity in genetically unstable Werner syndrome cell lines. Brooks-Wilson AR, et al. **Genes Chromosomes Cancer** 1997 Feb;18(2):133–42

Apparent preferential loss of heterozygosity at TSC2 over TSC1 chromosomal region in tuberous sclerosis hamartomas. Carbonara C, et al. **Genes Chromosomes Cancer** 1996 Jan;15(1):18–25

Analysis of loss of heterozygosity and KRAS2 mutations in ovarian neoplasms: clinicopathological correlations. Chenevix-Trench G, et al. **Genes Chromosomes Cancer** 1997 Feb;18(2):75–83

Loss of heterozygosity at 7q31 in breast cancer: results from an International Collaborative Study Group. The Breast Cancer Somatic Genetics Consortium. Devilee P, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):193–9

Loss of heterozygosity at 11q23.1 in breast carcinomas: indication for involvement of a gene distal and close to ATM. Laake K, et al. **Genes Chromosomes Cancer** 1997 Mar;18(3):175–80

Loss of heterozygosity of chromosome 13 in Merkel cell carcinoma. Leonard JH, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):93–7

Delineation of the centromeric and telomeric chromosome segment 11p15.5 lung cancer suppressor regions LOH11A and LOH11B. O'Briant KC, et al. **Genes Chromosomes Cancer** 1997 Feb;18(2):111–4

Loss of heterozygosity studies indicate that chromosome arm 1p harbors a tumor supressor gene for renal oncocytomas. Thrash-Bingham CA, et al. **Genes Chromosomes Cancer** 1996 May;16(1):64–7

Heterozygosity, heteromorphy, and phylogenetic trees in asexual eukaryotes. Birky CW Jr. **Genetics** 1996 Sep; 144(1):427–37

The spread of an advantageous allele across a barrier: the effects of random drift and selection against heterozygotes. Piálek J, et al. **Genetics** 1997 Feb;145(2):493–504

On the potential for estimating the effective number of breeders from heterozygote-excess in progeny. Pudovkin AI, et al. **Genetics** 1996 Sep;144(1):383–7

Overlapping PCR for bidirectional PCR amplification of specific alleles: a rapid one-tube method for simultaneously differentiating homozygotes and heterozygotes. Liu Q, et al. **Genome Res** 1997 Apr;7(4):389–98

A locus for autosomal recessive pseudoxanthoma elasticum, with penetrance of vascular symptoms in carriers, maps to chromosome 16p13.1 [letter] van Soest S, et al. **Genome Res** 1997 Aug;7(8):830–4

Loss of heterozygosity studies in squamous cell carcinomas of the head and neck. Ransom DT, et al. **Head Neck** 1996 May-Jun;18(3):248–53

Using willingness to pay to value close substitutes: carrier screening for cystic fibrosis revisited. Donaldson C, et al. **Health Econ** 1997 Mar-Apr;6(2):145–59

Psychological responses to BRCA1 mutation testing: preliminary findings. Croyle RT, et al. **Health Psychol** 1997 Jan;16(1):63–72

Long-term cognitive and emotional impact of genetic testing for carriers of cystic fibrosis: the effects of test result and gender. Marteau TM, et al. **Health Psychol** 1997 Jan; 16(1):51–62

Hb J-Baltimore [beta 16(A13)Gly-->Asp] associated with beta(+)-thalassemia in a Spanish family. Arribalzaga K, et al. **Hemoglobin** 1996 Feb;20(1):79–84

Compound heterozygosity for Hb Lepore-Boston and Hb Neapolis (Dhonburi) [beta 126(H4)Val-->Gly] in a patient from Naples, Italy. Pagano L, et al. **Hemoglobin** 1997 Jan; 21(1):1–15

Alpha-, beta-, and gamma-mRNA levels in beta-thalassemia; transcriptional and translational differences in heterozygotes, homozygotes, and compound heterozygotes. Smetanina NS, et al. **Hemoglobin** 1997 Jan; 21(1):27–39

Chromosome segregation in a man heterozygous for a pericentric inversion, inv(9)(p11q13), analyzed by using sperm karyotyping and two-color fluorescence in situ hybridization on sperm nuclei. Colls P, et al. **Hum Genet** 1997 Jun;99(6):761–5

Homozygosity by descent for a COL1A2 mutation in two sibs with severe osteogenesis imperfecta and mild clinical expression in the heterozygotes. De Paepe A, et al. **Hum Genet** 1997 Apr;99(4):478–83

A family exhibiting heteroplasmy in the human mitochondrial DNA control region reveals both somatic mosaicism and pronounced segregation of mitotypes. Wilson MR, et al. **Hum Genet** 1997 Aug;100(2):167–71

The molecular basis of medium-chain acyl-CoA dehydrogenase (MCAD) deficiency in compound heterozygous patients: is there correlation between genotype and phenotype? Andresen BS, et al. **Hum Mol Genet** 1997 May;6(5):695–707

Characterization of survival motor neuron (SMNT) gene deletions in asymptomatic carriers of spinal muscular atrophy. Wang CH, et al. **Hum Mol Genet** 1996 Mar; 5(3):359–65

Spectrum of LDL receptor gene mutations in heterozygous familial hypercholesterolemia. Day IN, et al. **Hum Mutat** 1997;10(2):116–27

Two mutations in the same low-density lipoprotein receptor allele act in synergy to reduce receptor function in heterozygous familial hypercholesterolemia. Jensen HK, et al. **Hum Mutat** 1997;9(5):437–44

Ornithine transcarbamylase deficiency: ten new mutations and high proportion of de novo mutations in heterozygous females. Oppliger Leibundgut E, et al. **Hum Mutat** 1997; 9(5):409–11

Loss of heterozygosity and microsatellite alterations in p53 and RB genes in adenoid cystic carcinoma of the salivary glands. Yamamoto Y, et al. **Hum Pathol** 1996 Nov; 27(11):1204–10

Frequent loss of heterozygosity in early non-small cell lung cancers at chromosome 9p21 proximal to the CDKN2a gene. Mead LJ, et al. **Int J Cancer** 1997 Apr 10;71(2):213–7

Plasma levels of brain natriuretic peptide as an index for evaluation of cardiac function in female gene carriers of Duchenne muscular dystrophy. Adachi K, et al. **Intern Med** 1997 Jul;36(7):497–500

Model of the impact of HIV infection on the size of future hemophilia and carrier birth cohorts. Ragni MV, et al. **J Acquir Immune Defic Syndr Hum Retrovirol** 1996 Oct 1;13(2):160–8

Modifying effect of reproductive risk factors on the age at onset of breast cancer for German BRCA1 mutation carriers. Chang-Claude J, et al. **J Cancer Res Clin Oncol** 1997;123(5):272–9

Assessment of adrenal function in women heterozygous for adrenoleukodystrophy. el-Deiry SS, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):856–60

Loss of heterozygosity at 11q13: analysis of pituitary tumors, lung carcinoids, lipomas, and other uncommon tumors in subjects with familial multiple endocrine neoplasia type 1. Dong Q, et al. **J Clin Endocrinol Metab** 1997 May; 82(5):1416–20

Carriers of 21-hydroxylase deficiency are not at increased risk for hyperandrogenism. Knochenhauer ES, et al. **J Clin Endocrinol Metab** 1997 Feb;82(2):479–85

Aromatase deficiency in a female who is compound heterozygote for two new point mutations in the P450arom gene: impact of estrogens on hypergonadotropic hypogonadism, multicystic ovaries, and bone densitometry in childhood. Mullis PE, et al. **J Clin Endocrinol Metab** 1997 Jun;82(6):1739–45

Disturbed myeloperoxidase-dependent activity of neutrophils in cystic fibrosis homozygotes and heterozygotes, and its correction by amiloride. Witko-Sarsat V, et al. **J Immunol** 1996 Sep 15;157(6):2728–35

Inherited metabolic diseases affecting the carrier. Endres W. **J Inherit Metab Dis** 1997 Mar;20(1):9–20 (79 ref.)

A compound heterozygote for hepatic lipase gene mutations Leu334-->Phe and Thr383-->Met: correlation between hepatic lipase activity and phenotypic expression. Knudsen P, et al. **J Lipid Res** 1996 Apr;37(4):825–34

Heterozygosity for apolipoprotein A-I(R160L)Oslo is associated with low levels of high density lipoprotein cholesterol and HDL-subclass LpA-I/A-II but normal levels of HDL-subclass LpA-I. Leren TP, et al. **J Lipid Res** 1997 Jan;38(1):121–31

Positive linear correlation between the length of truncated apolipoprotein B and its secretion rate: in vivo studies in human apoB-89, apoB-75, apoB-54.8, and apoB-31 heterozygotes. Parhofer KG, et al. **J Lipid Res** 1996 Apr; 37(4):844–52

Germline and somatic mosaicism in a female carrier of Hunter disease. Froissart R, et al. **J Med Genet** 1997 Feb; 34(2):137–40

X chromosome inactivation pattern in female carriers of X linked hypophosphataemic rickets. Orstavik KH, et al. **J Med Genet** 1996 Aug;33(8):700–3

Loss of heterozygosity in tuberous sclerosis hamartomas. Sepp T, et al. **J Med Genet** 1996 Nov;33(11):962–4

Evidence for compound heterozygosity causing mild and severe forms of autosomal recessive spinal muscular atrophy. Talbot K, et al. **J Med Genet** 1996 Dec; 33(12):1019–21

Second cousins with cystic fibrosis and no common ancestor who is a carrier [letter; comment] Ten Kate LP. **J Med Genet** 1996 Jun;33(6):526. Comment on: J Med Genet 1995 May;32(5):401–2.

Heterozygosity for Tay-Sachs disease in non-Jewish Americans with ancestry from Ireland or Great Britain. van Bael M, et al. **J Med Genet** 1996 Oct;33(10):829–32

Accurate diagnosis of carriers of deletions and duplications in Duchenne/Becker muscular dystrophy by fluorescent dosage analysis. Yau SC, et al. **J Med Genet** 1996 Jul; 33(7):550–8

Why the term "carrier screening" should be abandoned [editorial] Haddow JE. **J Med Screen** 1997;4(1):1

Familial tumor syndrome associated with a germline nonfunctional p16INK4a allele. Yarbrough WG, et al. **J Natl Cancer Inst** 1996 Oct 16;88(20):1489–91

Visual processing disorders in patients with Huntington's disease and asymptomatic carriers. Gómez-Tortosa E, et al. **J Neurol** 1996 Mar;243(3):286–92

Multi-system signs and symptoms in X-linked ataxia carriers. Verhagen WI, et al. **J Neurol Sci** 1996 Sep 1;140(1–2):85–90

Loss of heterozygosity of microsatellite loci on chromosome 9p in astrocytic tumors and its prognostic implications. Maruno M, et al. **J Neurooncol** 1996 Oct;30(1):19–24

Dietary fat and sex modify heterozygote effects of the rat fatty (fa) allele. Maher MA, et al. **J Nutr** 1996 Oct; 126(10):2487–93

Complete genomic screen in late-onset familial Alzheimer disease. Evidence for a new locus on chromosome 12 [see comments] Pericak-Vance MA, et al. **JAMA** 1997 Oct 15; 278(15):1237–41. Comment in: JAMA 1997 Oct 15;278(15):1282–3.

Symptomatic carriers of muscular dystrophy. Azam M. **JPMA J Pak Med Assoc** 1997 Mar;47(3):89–93

Gastric lesions in transforming growth factor beta-1 heterozygous mice. Boivin GP, et al. **Lab Invest** 1996 Feb; 74(2):513–8

Pathology of familial breast cancer: differences between breast cancers in carriers of BRCA1 or BRCA2 mutations and sporadic cases. Breast Cancer Linkage Consortium [see comments] **Lancet** 1997 May 24;349(9064):1505–10. Comment in: Lancet 1997 May 24;349(9064):1488–9.

HETEROZYGOTE

Gene therapy for cystic fibrosis [letter; comment] Turner G. **Lancet** 1997 Apr 26;349(9060):1250–1. Comment on: Lancet 1997 Mar 1;349(9052):619–20.

Genealogy of the 129 inbred strains: 129/SvJ is a contaminated inbred strain. Threadgill DW, et al. **Mamm Genome** 1997 Jun;8(6):390–3

Clinicopathologic correlates of loss of heterozygosity in Wilm's tumor: a preliminary analysis. Grundy P, et al. **Med Pediatr Oncol** 1996 Nov;27(5):429–33

Rapid identification of Smith–Lemli–Opitz syndrome homozygotes and heterozygotes (carriers) by measurement of deficient 7–dehydrocholesterol–delta 7–reductase activity in fibroblasts. Shefer S, et al. **Metabolism** 1997 Jul; 46(7):844–50

Isolation of an APRT heterozygote from TK6 human lymphoblasts: predominance of multi–locus loss of heterozygosity among spontaneous APRT–mutants. Pongsaensook P, et al. **Mutat Res** 1997 Jun 9;377(1):27–36

Clinical and biochemical abnormalities in people heterozygous for hemochromatosis [see comments] Bulaj ZJ, et al. **N Engl J Med** 1996 Dec 12;335(24):1799–805. Comment in: N Engl J Med 1996 Dec 12;335(24):1837–9.

Prevalence and genotypes of alpha– and beta–thalassemia carriers in Hong Kong — implications for population screening [see comments] Lau YL, et al. **N Engl J Med** 1997 May 1;336(18):1298–301. Comment in: N Engl J Med 1997 May 1;336(18):1314–6.

Hemochromatosis in heterozygotes [editorial; comment] Powell LW, et al. **N Engl J Med** 1996 Dec 12; 335(24):1837–9. Comment on: N Engl J Med 1996 Dec 12;335(24):1799–1805.

Detection of heterozygous mutations in BRCA1 using high density oligonucleotide arrays and two–colour fluorescence analysis [see comments] Hacia JG, et al. **Nat Genet** 1996 Dec;14(4):441–7. Comment in: Nat Genet 1996 Dec;14(4):367–70.

Heterozygosity for factor V Leiden in a haemodialysis patient with recurrent shunt thrombosis [letter] Bremer C, et al. **Nephrol Dial Transplant** 1997 Aug;12(8):1775–6

Compound heterozygosity for a known and a novel defect in the lipoprotein lipase gene (Asp250––>Asn; Ser251––>Cys) resulting in lipoprotein lipase (LPL) deficiency. Bijvoet SM, et al. **Neth J Med** 1996 Nov; 49(5):189–95

Pattern of X–chromosome inactivation as a key determinant of the clinicopathologic phenotype of Duchenne muscular dystrophy carriers [letter; comment] Matthews PM, et al. **Neurology** 1996 Apr;46(4):1189–91. Comment on: Neurology 1995 Apr;45(4):677–90.

Differential allelic expression of PrP mRNA in carriers of the E200K mutation. Rosenmann H, et al. **Neurology** 1997 Sep;49(3):851–6

DMD–specific FISH probes are diagnostically useful in the detection of female carriers of DMD gene deletions. Voskova–Goldman A, et al. **Neurology** 1997 Jun; 48(6):1633–8

Loss of heterozygosity and reduced expression of the CUTL1 gene in uterine leiomyomas. Zeng WR, et al. **Oncogene** 1997 May 15;14(19):2355–65

Prognostic factors associated with loss of heterozygosity at the RB1 locus in retinoblastoma. Munier FL, et al. **Ophthalmic Genet** 1997 Mar;18(1):7–12

Peripheral retinopathy in offspring of carriers of Norrie disease gene mutations. Possible transplacental effect of abnormal Norrin. Mintz–Hittner HA, et al. **Ophthalmology** 1996 Dec;103(12):2128–34

The risk of alpha–thalassaemia in offspring of beta–thalassaemia carriers in Hong Kong. Lam YH, et al. **Prenat Diagn** 1997 Aug;17(8):733–6

Frequency of the IVS12 + 5G––>A splice mutation of the fumarylacetoacetate hydrolase gene in carriers of hereditary tyrosinaemia in the French Canadian population of Saguenay–Lac–St–Jean. Poudrier J, et al. **Prenat Diagn** 1996 Jan;16(1):59–64

Search for the pathogenesis of the differing phenotype in two compound heterozygote Hungarian brothers with the same genotypic triosephosphate isomerase deficiency. Hollán S, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10362–6

Heterozygous alpha 1–antitrypsin deficiency (PiSZ) in an adolescent with asthma. Nuckton TJ, et al. **South Med J** 1996 Oct;89(10):1011–3 (21 ref.)

Thrombosis in patients with heterozygous and homozygous factor XII deficiency is not explained by the associated presence of factor V Leiden [letter] Castaman G, et al. **Thromb Haemost** 1996 Aug;76(2):275

Prenatal diagnosis of compound heterozygous deficiency of protein C by direct detection of the mutation sites [letter] Ido M, et al. **Thromb Haemost** 1996 Aug;76(2):277–8

Compound heterozygosity for two novel missense mutations in the prothrombin gene in a patient with a severe bleeding tendency. Poort SR, et al. **Thromb Haemost** 1997 Apr; 77(4):610–5

Heterozygote for plasmin inhibitor deficiency developing hemorrhagic tendency with advancing age. Ikematsu S, et al. **Thromb Res** 1996 Apr 15;82(2):129–16

Enhanced levels of wild–type versus mutant thyroid hormone receptor beta 1 messenger RNA in fibroblasts from heterozygotes of kindred S with thyroid hormone resistance. Bercu BB, et al. **Thyroid** 1996 Jun;6(3):189–94

Assessment of qualitative functional parameters of stored red blood cells from donors with sickle cell trait (AS) or with heterozygote (AC) status. Ould Amar AK, et al. **Transfus Clin Biol** 1996;3(4):225–33

How heterozygous are wild rats (Rattus norvegicus)? Voigt B, et al. **Transplant Proc** 1997 May;29(3):1772–3

Lifespan and lesions in genetically heterogeneous (four–way cross) mice: a new model for aging research. Chrisp CE, et al. **Vet Pathol** 1996 Nov;33(6):735–43

Impaired retinal function in young labrador retriever dogs heterozygous for late onset rod–cone degeneration. Kommonen B, et al. **Vision Res** 1997 Feb;37(3):365–70

[Fatal arrhythmia following administration of suxamethonium to a postpartum woman who subsequently was found to have dystrophia myotonica (letter; comment)] Wildschut HI, et al. **Ned Tijdschr Geneeskd** 1996 Sep 21; 140(38):1923–4. Comment on: Ned Tijdschr Geneeskd 1996 Jun 22;140(25):1317–9. **(Dut)**

[Comparison of two groups of 22 women homozygous or heterozygous for factor V Leiden mutation] Samama MM, et al. **Bull Acad Natl Med** 1997 May;181(5):919–35; discussion 936–7 (Eng. Abstr.) **(Fre)**

[Is heterozygote alpha 1–antitrypsin deficiency a risk factor in the etiology of aortic aneurysm?] Hernandez–Richter T, et al. **Chirurg** 1997 May;68(5):513–6 (Eng. Abstr.) **(Ger)**

[Bone mineral content in osteogenesis imperfecta] Rajtár M, et al. **Orv Hetil** 1996 Jul 14;137(28):1519–23 (Eng. Abstr.) **(Hun)**

[Familial Creutzfeldt–Jakob disease with the heterozygous point mutation at codon 200 of the prion protein gene (Glu––>Lys)––report of CJD200 brothers of Yamanashi Prefecture origin] Kawauchi Y, et al. **No To Shinkei** 1997 May;49(5):460–4 (Eng. Abstr.) **(Jpn)**

[Genomic heterozygosity, sexual maturation rate, and life expectancy] Altukhov IuP. **Dokl Akad Nauk** 1996 Jun; 348(6):842–5 **(Rus)**

[Neurogenesis in Drosophila melanogaster hemizygotic, heterozygotic, and homozygotic notch mutants] Frolova IP, et al. **Dokl Akad Nauk** 1997 Mar;353(1):138–42 **(Rus)**

[TUB9 polymorphism in the CFTR gene of cystic fibrosis patients, carriers, and healthy donors from the Moscow region. SSCP and restriction analyses] Amosenko FA, et al. **Genetika** 1997 Feb;33(2):257–61 (Eng. Abstr.) **(Rus)**

[Retrospective estimation of the frequency of heterozygous beta–thalassemia in the Crimean Tartar population. Formulation of the problem. Estimation of the gametic contribution to a mixed population from frequencies of the ABO blood group genes] Asanov AIu, et al. **Genetika** 1996 Dec;32(12):1683–6 (Eng. Abstr.) **(Rus)**

[Retrospective estimation of the frequency of heterozygous beta–thalassemia in the Crimean Tatar population. Estimation of gene frequency in the ancestral population based on mixed population data with a known admixture rate] Asanov AIu, et al. **Genetika** 1996 Dec;32(12):1687–9 (Eng. Abstr.) **(Rus)**

[Geography of effective size of rural populations of Northern Eurasia. Geographic correlation between effective size and level of heterozygosity of populations] Evsiukov AN, et al. **Genetika** 1996 Nov;32(11):1583–91 (Eng. Abstr.) **(Rus)**

[Detection of the adaptive significance of human blood group polymorphism by analyzing a series of loci. Level of heterozygosity and variety of phenotypes in two generations] Kurbatova OL. **Genetika** 1996 Jul; 32(7):996–1006 (Eng. Abstr.) **(Rus)**

[Possible connection between the level of heterozygosity of biochemical gene markers in patients with lung diseases] Spitsyn VA, et al. **Genetika** 1996 Jul;32(7):990–5 (Eng. Abstr.) **(Rus)**

[Significance of heterozygosity loss in the long arm of chromosome 5 (5q21) in small cell carcinoma of the lung (see comments)] Sánchez Céspedes M, et al. **Med Clin (Barc)** 1997 May 31;109(1):1–5 (Eng. Abstr.). Comment in: Med Clin (Barc) 1997 May 31;109(1):16–8. **(Spa)**

HETEROZYGOTE DETECTION

Identification of proximal spinal muscular atrophy carriers and patients by analysis of SMNT and SMNC gene copy number. McAndrew PE, et al. **Am J Hum Genet** 1997 Jun; 60(6):1411–22

Twenty–year outcome analysis of genetic screening programs for Tay–Sachs and beta–thalassemia disease carriers in high schools [see comments] Mitchell JJ, et al. **Am J Hum Genet** 1996 Oct;59(4):793–8. Comment in: Am J Hum Genet 1996 Oct;59(4):762–3.

Prenatal diagnosis and carrier screening for fragile X by PCR. Brown WT, et al. **Am J Med Genet** 1996 Jul 12;64(1):191–5

Dilemmas of anonymous predictive testing for Huntington disease: privacy vs. optimal care. Burgess MM, et al. **Am J Med Genet** 1997 Aug 8;71(2):197–201

Developmental tasks of childhood and adolescence: implications for genetic testing. Fanos JH. **Am J Med Genet** 1997 Jul 11;71(1):22–8 (44 ref.)

A fragile X male with a broad smear on Southern blot analysis representing 100–500 CGG repeats and no methylation at the EagI site of the FMR–1 gene. Lachiewicz AM, et al. **Am J Med Genet** 1996 Aug 9; 64(2):278–82

Carrier testing in the fragile X syndrome: attitudes and opinions of obligate carriers. McConkie–Rosell A, et al. **Am J Med Genet** 1997 Jan 10;68(1):62–9

Examination of factors that influence the expansion of the fragile X mutation in a sample of conceptuses from known carrier females. Sherman SL, et al. **Am J Med Genet** 1996 Aug 9;64(2):256–60

Acceptance of home and clinic–based cystic fibrosis carrier education and testing by first, second, and third degree relatives of cystic fibrosis patients. Sorenson JR, et al. **Am J Med Genet** 1997 May 16;70(2):121–9

Molecular fragile X screening in normal populations. Spence WC, et al. **Am J Med Genet** 1996 Jul 12;64(1):181–3

Should parents be informed about the carrier status of their fetus? [letter] ten Kate LP. **Am J Med Genet** 1996 Oct 2;65(1):89

Questions and problems in direct predictive testing for Huntington's disease [letter] Tóth T, et al. **Am J Med Genet** 1997 Aug 8;71(2):238–9

Carriers of the Usher syndrome type IB: is audiometric identification possible? Wagenaar M, et al. **Am J Otol** 1996 Nov;17(6):853–8

Success in mating: a coordinated approach to fitness through genotypes incorporating genes for stress resistance and heterozygous advantage under stress. Parsons P. **Behav Genet** 1997 Jan;27(1):75–81

A dinucleotide deletion in exon 4 of the PlA2 allelic form of glycoprotein IIIa: implications for the correlation of serologic versus genotypic analysis of human platelet alloantigens. Skogen B, et al. **Blood** 1996 Nov 15; 88(10):3831–6

Prenatal screening for carriers of cystic fibrosis should screen both partners individually [letter] de Braekeleer M. **BMJ** 1996 Sep 28;313(7060):820

Molecular genotyping shows that ataxia–telangiectasia heterozygotes are predisposed to breast cancer. Athma P, et al. **Cancer Genet Cytogenet** 1996 Dec;92(2):130–4

Higher triglycerides, lower high–density lipoprotein cholesterol, and higher systolic blood pressure in lipoprotein lipase–deficient heterozygotes. A preliminary report. Sprecher DL, et al. **Circulation** 1996 Dec 15; 94(12):3239–45

Diagnosis of Duchenne/Becker muscular dystrophy and quantitative identification of carrier status by use of entangled solution capillary electrophoresis. Fortina P, et al. **Clin Chem** 1997 May;43(5):745–51

Genetic analysis of seven Mediterranean families with multiple endocrine neoplasia type 2A. Oriola J, et al. **Clin Endocrinol (Oxf)** 1996 Feb;44(2):207–12

Population–based carrier screening for cystic fibrosis. Doksum T, et al. **Clin Obstet Gynecol** 1996 Dec; 39(4):763–71 (28 ref.)

Upregulation of utrophin in the myocardium of a carrier of Duchenne muscular dystrophy [letter] Behr TM, et al. **Eur Heart J** 1997 Apr;18(4):699–700

Cystic fibrosis heterozygote screening in the Orthodox Community of Ashkenazi Jews: the Dor Yesharim approach and heterozygote frequency. Abeliovich D, et al. **Eur J Hum Genet** 1996;4(6):338–41

Psychological impact of carrier screening for cystic fibrosis among pregnant women. Clausen H, et al. **Eur J Hum Genet** 1996;4(2):120–3

ERG and EOG abnormalities in carriers of X–linked retinitis pigmentosa. Stavrou P, et al. **Eye** 1996;10 (Pt 5):581–9

Detection of CAH heterozygotes [letter; comment] Chryssikopoulos A. **Fertil Steril** 1997 Jul;68(1):182; discussion 183–4. Comment on: Fertil Steril 1996 Oct;66(4):557–63.

Cystic Fibrosis in Ukraine: age, origin and tracing of the delta F508 mutation. Livshits LA, et al. **Gene Geogr** 1996 Dec;10(3):219–27

Estimation of heterozygosity in Ribes nigrum L. using RAPD markers. Lanham PG. **Genetica** 1996 Oct;98(2):193–7

Prevalence of delta F508 cystic fibrosis carriers in The Netherlands: logistic regression on sex, age, region of residence and number of offspring. de Vries HG, et al. **Hum Genet** 1997 Jan;99(1):74–9

No evidence for 'skewed' inactivation of the X–chromosome as cause of Leber's hereditary optic neuropathy in female carriers. Oostra RJ, et al. **Hum Genet** 1996 Apr;97(4):500–5

Carrier and prenatal diagnosis of X–linked severe combined immunodeficiency: mutation detection methods and utilization. Puck JM, et al. **Hum Genet** 1997 May; 99(5):628–33

X–linked adrenal hypoplasia in a large Greenlandic family. Detection of a missense mutation (N4401) in the DAX–1 gene; implication for genetic counselling and carrier diagnosis. Schwartz M, et al. **Hum Genet** 1997 Jan; 99(1):83–7

Compound heterozygosity for a known (D250N) and a novel (E410K) missense mutation in the C–terminal domain of lipoprotein lipase causes familial chylomicronemia. Wiebusch H, et al. **Hum Mutat** 1996;8(4):381–3

Beta–thalassemia (beta 90 GAG––>TAG): genetic diagnosis by allele–specific polymerase chain reaction and estimation of mutant mRNA expression by reverse transcription polymerase chain reaction. Ekawa K, et al. **Intern Med** 1996 Jun;35(6):463–7

Relationship of bovine leukocyte adhesion deficiency with genetic merit for performance traits. Powell RL, et al. **J Dairy Sci** 1996 May;79(5):895–9

Arbitrary primer PCR of dog DNA with estimates of average heterozygosity. Ezer AD, et al. **J Hered** 1996 Nov–Dec; 87(6):450–5

The uptake and acceptability to patients of cystic fibrosis carrier testing offered in pregnancy by the GP. Hartley NE, et al. **J Med Genet** 1997 Jun;34(6):459–64
Description of a symptomless cystic fibrosis L346P/M348K compound heterozygous Cypriot individual. Deltas CC, et al. **Mol Cell Probes** 1996 Aug;10(4):315–8
Clinical symptoms and possible anticipation in a large kindred of familial restless legs syndrome. Trenkwalder C, et al. **Mov Disord** 1996 Jul;11(4):389–94
The carrier frequency of the BRCA2 6174delT mutation among Ashkenazi Jewish individuals is approximately 1%. Oddoux C, et al. **Nat Genet** 1996 Oct;14(2):188–90
DNA diagnosis and identification of carriers of infantile and juvenile neuronal ceroid lipofuscinoses. Syvänen AC, et al. **Neuropediatrics** 1997 Feb;28(1):63–6
Associations of individual genomic heterozygosity, estimated by molecular fingerprinting, and of dam major histocompatibility complex with growth and egg production traits in layer chickens. Cahaner A, et al. **Poult Sci** 1996 Dec;75(12):1463–7
Thrombosis associated with ovarian hyperstimulation syndrome in a carrier of the factor V Leiden mutation [letter] Hollemaert S, et al. **Thromb Haemost** 1996 Aug; 76(2):275–7
Benefits and burdens of genetic carrier identification. Williams JK, et al. **West J Nurs Res** 1997 Feb;19(1):71–81
Attitudes toward genetic carrier screening for cystic fibrosis among pregnant women: the role of health beliefs and avoidant coping style. Fang CY, et al. **Womens Health** 1997 Spring;3(1):31–51
[The essence of the Law on Population Screening (letter; comment)] ten Kate LP. **Ned Tijdschr Geneeskd** 1996 Nov 2;140(44):2203–4. Comment on: Ned Tijdschr Geneeskd 1996 Aug 31;140(35):1776–8. **(Dut)**
[Podium discussion of the gene therapy and heterozygote screening topic] Siegfried W. **Pneumologie** 1996 Dec;50 Suppl 3:873 **(Ger)**
[Difference of new mutation rates in dystrophin gene between deletion and duplication mutation in Duchenne and Becker muscular dystrophy] Kawamura J, et al. **Rinsho Shinkeigaku** 1997 Mar;37(3):212–7 (Eng. Abstr.) **(Jpn)**
[Hemophilia A: analysis of intron 18 and intron 7 of factor VIII gene and their role in a diagnostic strategy for carrier detection in a Chilean population] Quiroga T, et al. **Rev Med Chil** 1996 Jul;124(7):777–84 (Eng. Abstr.) **(Spa)**

METHODS

CADASIL: skin biopsy allows diagnosis in early stages. Ebke M, et al. **Acta Neurol Scand** 1997 Jun;95(6):351–7
Identification of a heterozygote for the silent and Kalow alleles of cholinesterase using a polymerase chain reaction technique. Campbell RA, et al. **Ann Clin Biochem** 1996 Nov;33 (Pt 6):568–70
Steroid sulphatase deficiency: identification of heterozygotes using hydrolysis of dehydroepiandrosterone sulphate by peripheral leucocytes. Lowis EI, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):219–26
Prevalence, male germ-line origin and new patterns of inversions in haemophilia A. Valleix S, et al. **Ann Genet** 1997;40(1):35–40
Molecular and biochemical approaches in the identification of heterozygotes for homocystinuria [published erratum appears in Atherosclerosis 1996 Sep 6;125(2):271] Tsai MY, et al. **Atherosclerosis** 1996 Apr 26;122(1):69–77
Predictive diagnosis of multiple endocrine neoplasia (MEN 1) in four Australian kindreds. Grimmond SM, et al. **Aust N Z J Med** 1996 Feb;26(1):27–32
DDAVP infusion in haemophilia A carriers: different behaviour of plasma factor VIII and von Willebrand factor. Casonato A, et al. **Blood Coagul Fibrinolysis** 1996 Jul; 7(5):549–53
Feasibility of prenatal diagnosis and carrier detection in South African haemophilia A patients. Dangerfield BT, et al. **Br J Haematol** 1997 Jun;97(3):558–60
Development of a direct DNA sequencing method for detecting heterozygous mutations of the human lipoprotein lipase gene. Mori A, et al. **Clin Biochem** 1997 Jun; 30(4):315–24
Detection of dystrophin deletion carriers using FISH analysis. Calvano S, et al. **Clin Genet** 1997 Jul;52(1):17–22
Evaluation of an aspartame loading test for the detection of heterozygotes for classical phenylketonuria. Silva LC, et al. **Clin Genet** 1997 Apr;51(4):231–5
Population screening for cystic fibrosis. Brock DJ. **Curr Opin Pediatr** 1996 Dec;8(6):635–8 (22 ref.)
Heterozygote screening for Tay–Sachs disease: past successes and future challenges. Natowicz MR, et al. **Curr Opin Pediatr** 1996 Dec;8(6):625–9 (30 ref.)
Direct molecular genetic diagnosis and heterozygote identification in X-linked Emery–Dreifuss muscular dystrophy by heteroduplex analysis. Wulff K, et al. **Dis Markers** 1997 Apr;13(2):77–86
Minisequencing: a specific tool for DNA analysis and diagnostics on oligonucleotide arrays. Pastinen T, et al. **Genome Res** 1997 Jun;7(6):606–14
Pseudohypoaldosteronism: family studies to identify asymptomatic carriers by stimulation of the renin–aldosterone system. Kuhnle U, et al. **Horm Res** 1996; 46(3):124–9
Fluorescence-assisted mismatch analysis (FAMA) for exhaustive screening of the alpha-galactosidase A gene and detection of carriers in Fabry disease. Germain D, et al. **Hum Genet** 1996 Dec;98(6):719–26
Comparison of single-entry and double-entry two-step couple screening for cystic fibrosis carriers. ten Kate LP, et al. **Hum Hered** 1996 Jan–Feb;46(1):20–5
Screening for Tay–Sachs disease. **Int J Gynaecol Obstet** 1996 Mar;52(3):311–2
A null allele for the Afm175xg3 marker at locus D17S795 caused by a primer binding failure. Mochi M, et al. **Int J Legal Med** 1996;109(2):104–6
Diagnosis and carrier detection in a Duchenne muscular dystrophy family by multiplex polymerase chain reaction and microsatellite analysis. Jongpiputvanich S, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S15–21
Identification of carriers of Duchenne/Becker muscular dystrophy by a novel method based on detection of junction fragments in the dystrophin gene. Yamagishi H, et al. **J Med Genet** 1996 Dec;33(12):1027–31
A genetic strategy for differential screening of meiotic germ-cell cDNA libraries. Caldwell KA, et al. **Mol Reprod Dev** 1996 Apr;43(4):403–13
DMD-specific FISH probes are diagnostically useful in the detection of female carriers of DMD gene deletions. Voskova-Goldman A, et al. **Neurology** 1997 Jun; 48(6):1633–8
Mutation analysis of five Japanese families with Wiskott–Aldrich syndrome and determination of the family members' carrier status using three different methods. Ariga T, et al. **Pediatr Res** 1997 Apr;41(4 Pt 1):535–40
Studies to detect carriers of haemophilia A in German shepherd dogs using diagnostic DNA polymorphisms in the human factor VIII gene. Clark P, et al. **Vet J** 1997 Jan;153(1):71–4
[Diagnosis of hemophilia A carrier state using analysis of intergenic and intergenic polymorphism of factor VIII gene] Sawecka J, et al. **Pol Arch Med Wewn** 1995 Nov; 94(5):425–31 (Eng. Abstr.) **(Pol)**
[Control of hereditary thrombophilia through detection of carriage and prenatal diagnosis] Seligson U. **Vestn Ross Akad Med Nauk** 1997;(1):27–9 (25 ref.) **(Rus)**

HEX A see **BETA-N-ACETYLHEXOSAMINIDASE**

HEX B see **BETA-N-ACETYLHEXOSAMINIDASE**

HEXABRACHION see **TENASCIN**

HEXACHLOROBENZENE

Effect of estradiol on the induction of porphyria by hexachlorobenzene in the rat. Legault N, et al. **Biochem Pharmacol** 1997 Jul 1;54(1):19–25

ADVERSE EFFECTS

Defective neutrophil function in workers occupationally exposed to hexachlorobenzene. Queiroz ML, et al. **Hum Exp Toxicol** 1997 Jun;16(6):322–6
Neuropsychological assessment of an aging population of Great Lakes fisheaters. Schantz SL, et al. **Toxicol Ind Health** 1996 May–Aug;12(3–4):403–17

ANALYSIS

Organochlorine pesticides, HCB, and PCBs in human milk in Poland. Czaja K, et al. **Bull Environ Contam Toxicol** 1997 May;58(5):769–75

BLOOD

PCBs and HCB in serum of full-term German neonates [letter] Lackmann GM, et al. **Lancet** 1996 Oct 12; 348(9033):1035
Hexachlorobenzene and octachlorostyrene in plasma of aluminium foundry workers using hexachloroethane for degassing. Seldén AI, et al. **Occup Environ Med** 1997 Aug; 54(8):613–8

METABOLISM

Accumulation of chlorinated benzenes in earthworms. Beyer WN. **Bull Environ Contam Toxicol** 1996 Nov;57(5):729–36
Transfer of planar and non-planar chlorobiphenyls, 4,4'-DDE and hexachlorobenzene from blood to milk and to suckling infants. Vrecl M, et al. **Chemosphere** 1996 Dec; 33(11):2341–6
Metabolism of hexachlorobenzene in humans: association between serum levels and urinary metabolites in a highly exposed population. To-Figueras J, et al. **Environ Health Perspect** 1997 Jan;105(1):78–83

PHARMACOKINETICS

Hexachlorobenzene accumulated by dams during pregnancy is transferred to suckling rats during early lactation. Nakashima Y, et al. **J Nutr** 1997 Apr;127(4):648–54

TOXICITY

Precancerous pathology evoked by hexachlorobenzene treatment. Ríos de Molina MC, et al. **Acta Physiol Pharmacol Ther Latinoam** 1996;46(2):71–81
Impairment of schedule-controlled behavior by pre- and postnatal exposure to hexachlorobenzene in rats. Lilienthal H, et al. **Arch Toxicol** 1996;70(3–4):174–81
Micronucleus monitoring to assess human occupational exposure to organochlorides. da Silva Augusto LG, et al. **Environ Mol Mutagen** 1997;29(1):46–52
Pro- and anti-oxidant parameters in rat liver after short-term exposure to hexachlorobenzene. Almeida MG, et al. **Hum Exp Toxicol** 1997 May;16(5):257–61
Local popliteal lymph node reactions to hexachlorobenzene and pentachlorobenzene: comparison with systemic effects. Schielen P, et al. **Immunopharmacology** 1996 Mar; 31(2–3):171–81
Time course of hexachlorobenzene-induced alterations of lipid metabolism and their relation to porphyria. Billi de Catabbi S, et al. **Int J Biochem Cell Biol** 1997 Feb; 29(2):335–44
Testing of p-dichlorobenzene and hexachlorobenzene for their ability to induce DNA damage and micronucleus formation in primary cultures of rat and human hepatocytes. Canonero R, et al. **Mutagenesis** 1997 Jan; 12(1):35–9
Hexachlorobenzene-induced immunomodulation and skin and lung lesions: a comparison between brown Norway, Lewis, and Wistar rats. Michielsen CP, et al. **Toxicol Appl Pharmacol** 1997 May;144(1):12–26
Studies on the mechanism of uroporphyrinogen decarboxylase inhibition in hexachlorobenzene-induced porphyria in the female rat. Mylchreest E, et al. **Toxicol Appl Pharmacol** 1997 Jul;145(1):23–33

HEXACHLOROCYCLOHEXANE see **LINDANE**

HEXACHLOROPHENE

PHARMACOLOGY

Cooperative inhibition of acetylcholinesterase activities by hexachlorophene in human erythrocytes. Matsumura H, et al. **Arch Toxicol** 1997;71(3):151–6

HEXADECADROL see **DEXAMETHASONE**

HEXADECANOATES see **PALMITATES**

HEXADECANOIC ACID see **PALMITIC ACID**

HEXADIENOIC ACID see **SORBIC ACID**

HEXADIMETHRINE

Highly effective delivery of foreign DNA to adherent cells via polybrene/DMSO-assisted gene transfer. Aubin RA, et al. **Methods Mol Biol** 1997;62:319–42

DIAGNOSTIC USE

Thromboplastins, heparin, and polybrene [letter; comment] Carroll WE. **Am J Clin Pathol** 1996 Oct;106(4):556. Comment on: Am J Clin Pathol 1995 Jun;103(6):735–9. Comment on: Am J Clin Pathol 1996 Feb;105(2):253–4.

PHARMACOLOGY

Induction of anchorage-independent growth by amphiregulin. Adam RM, et al. **Growth Factors** 1996; 13(3–4):193–203
Coupled effects of polybrene and calf serum on the efficiency of retroviral transduction and the stability of retroviral vectors. Andreadis S, et al. **Hum Gene Ther** 1997 Feb 10; 8(3):285–91

HEXADIMETHRINE BROMIDE see **HEXADIMETHRINE**

HEXAMETAPOL see **HEMPA**

HEXAMETHONIUM

ANALOGS & DERIVATIVES see HEXAMETHONIUM COMPOUNDS

PHARMACOLOGY

The effects of hexamethonium on cerebral blood flow and cerebral function during relative cerebral ischaemia in rats. Skarphedinsson JO, et al. **Acta Physiol Scand** 1996 Sep; 158(1):21–8
Modulation by presynaptic adenosine A1 receptors of nicotinic receptor antagonist-induced neuromuscular block in the mouse. Prior C, et al. **Eur J Pharmacol** 1997 May 30;327(2–3):103–8

HEXAMETHONIUM COMPOUNDS

ADMINISTRATION & DOSAGE

Evaluation of hylan b gel as a soft-tissue augmentation implant material. Piacquadio D, et al. **J Am Acad Dermatol** 1997 Apr;36(4):544–9

HEXAMETHYLENEIMINES see **AZEPINES**

HEXAMETHYLENETETRAMINE see **METHENAMINE**

HEXAMETHYLMELAMINE see **ALTRETAMINE**

HEXAMINE

HEXAMINE see **METHENAMINE**

HEXANES

ADVERSE EFFECTS

Residual electroneurographic modifications in subjects with n-hexane induced polyneuropathy: a follow-up study. Valentino M. **Med Lav** 1996 Jul-Aug;87(4):289-96

METABOLISM

Metabolism of n-hexane by rat liver and extrahepatic tissues and the effect of cytochrome P-450 inducers. Crosbie SJ, et al. **Hum Exp Toxicol** 1997 Mar;16(3):131-7

An investigation into the role of rat skeletal muscle as a site for xenobiotic metabolism using microsomes and isolated cells. Crosbie SJ, et al. **Hum Exp Toxicol** 1997 Mar; 16(3):138-45

Method for the simultaneous quantification of n-hexane metabolites: application to n-hexane metabolism determination. Soriano T, et al. **Hum Exp Toxicol** 1996 Jun;15(6):497-503

Comparison and in vivo relevance of two different in vitro head space metabolic systems: liver S9 and liver slices. Mortensen B, et al. **Pharmacol Toxicol** 1997 Jul;81(1):35-41

PHARMACOKINETICS

Comparative estimation of the neurotoxic risks of N-hexane and N-heptane in rats and humans based on the formation of the metabolites 2,5-hexanedione and 2,5-heptanedione. Filser JG, et al. **Adv Exp Med Biol** 1996;387:411-27

Effect of coexposure to methyl ethyl ketone (MEK) on n-hexane toxicokinetics in human volunteers. van Engelen JG, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):385-95

PHARMACOLOGY

Role of the acrAB locus in organic solvent tolerance mediated by expression of marA, soxS, or robA in Escherichia coli. White DG, et al. **J Bacteriol** 1997 Oct; 179(19):6122-6

TOXICITY

Comparative estimation of the neurotoxic risks of N-hexane and N-heptane in rats and humans based on the formation of the metabolites 2,5-hexanedione and 2,5-heptanedione. Filser JG, et al. **Adv Exp Med Biol** 1996;387:411-27

Effects of n-hexane and its metabolites on cloned voltage-operated neuronal potassium channels. Madeja M, et al. **Arch Toxicol** 1997;71(4):238-42

Mechanisms and models of neurotoxicity of n-hexane and related solvents. Tähti H, et al. **Arch Toxicol Suppl** 1997; 19:337-45 (40 ref.)

Differing non-additive alterations in different parts of the nervous system of the rat. Nylén P. **Food Chem Toxicol** 1996 Nov-Dec;34(11-12):1121-3

Effect of coexposure to methyl ethyl ketone (MEK) on n-hexane toxicokinetics in human volunteers. van Engelen JG, et al. **Toxicol Appl Pharmacol** 1997 Jun;144(2):385-95

HEXANOATES see **CAPROATES**

HEXANOIC ACIDS

ADVERSE EFFECTS

Offset printer's occupational allergic contact dermatitis caused by cobalt-2-ethylhexoate. Kanerva L, et al. **Contact Dermatitis** 1996 Jan;34(1):67-8

ANALYSIS

Measurement of a new anticonvulsant, (S)-3-(aminomethyl)-5-methylhexanoic acid, in plasma and milk by high-performance liquid chromatography. Windsor BL, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):143-8

CHEMICAL SYNTHESIS

A novel fluorescent tag for labelling of some antisense oligonucleotides. Dubey KK, et al. **Neurochem Int** 1997 Sep;31(3):405-12

PHARMACOKINETICS

A brain uptake study of [1-(11)C]hexanoate in the mouse: the effect of hypoxia, starvation and substrate competition. Ishiwata K, et al. **Ann Nucl Med** 1996 May;10(2):265-70

Evaluation of the brain uptake properties of [1-11C]labeled hexanoate in anesthetized cats by means of positron emission tomography. Sakiyama Y, et al. **Ann Nucl Med** 1996 Aug;10(3):361-6

PHARMACOLOGY

Discovery of OT4003, a novel, potent, and orally active cys-LT1 receptor antagonist. Tvaermose-Nielsen O, et al. **Bioorg Med Chem** 1997 Feb;5(2):415-27

Inhibition of animal acetyl-coenzyme A carboxylase by 2-(p-chlorophenoxy)-2-methylpropionic acid and 2-ethylhexanoic acid. Sumida K, et al. **Chemosphere** 1996 Dec;33(11):2201-7

TOXICITY

CYP enzymes catalyze the formation of a terminal olefin from 2-ethylhexanoic acid in rat and human liver. Pennanen S, et al. **Hum Exp Toxicol** 1996 May;15(5):435-42

HEXANOLS see **ALCOHOLS, HEXYL**

2-HEXANONE see **METHYL N-BUTYL KETONE**

HEXANONES

ADVERSE EFFECTS

Changes in immunoglobulin concentrations and urinary 2,5-hexanedione concentrations [letter; comment] Jackson JR, et al. **Hum Exp Toxicol** 1997 May;16(5):284-5. Comment on: Hum Exp Toxicol 1996 Jan;15(1):56-8.

2,5-Hexanedione induced apoptosis in cultured mouse DRG neurons. Ogawa Y, et al. **Int Arch Occup Environ Health** 1996;68(6):495-7

METABOLISM

Solid-state 13C-NMR spectroscopy of adduction products of 2,5-hexanedione with ribonuclease, albumin, and rat neurofilament protein. Yan B, et al. **Chem Biol Interact** 1996 Oct 21;102(2):101-16

Regioselective binding of 2,5-hexanedione to high-molecular-weight rat neurofilament proteins in vitro. DeCaprio AP, et al. **Toxicol Appl Pharmacol** 1997 Jul; 145(1):211-7

PHARMACOLOGY

DIF-1, putative morphogen of D. discoideum, suppresses cell growth and promotes retinoic acid-induced cell differentiation in HL-60. Kubohara Y. **Biochem Biophys Res Commun** 1997 Jul 18;236(2):418-22

Inhibition of acute stent thrombosis under high-shear flow conditions by a nitric oxide donor, DMHD/NO. An ex vivo porcine arteriovenous shunt study. Kaul S, et al. **Circulation** 1996 Nov 1;94(9):2228-34

Characterization of a Dictyostelium factor that acts synergistically with DIF to induce terminal stalk cell differentiation. Yamada Y, et al. **Dev Biol** 1997 Apr 15; 184(2):296-302

A slow sustained increase in cytosolic Ca2+ levels mediates stalk gene induction by differentiation inducing factor in Dictyostelium. Schaap P, et al. **EMBO J** 1996 Oct 1; 15(19):5177-83

Stimulation by DIF causes an increase of intracellular Ca2+ in Dictyostelium discoideum. Azhar M, et al. **Exp Cell Res** 1997 Feb 1;230(2):403-6

Cytoskeletal changes in cultured human fibroblasts following exposure to 2,5-hexanedione. Passarin MG, et al. **Neuropathol Appl Neurobiol** 1996 Feb;22(1):60-7

POISONING

Mechanistic importance of axonal atrophy and swelling in gamma-diketone axonopathy: commentary on forum position paper [comment] Sayre LM, et al. **Neurotoxicology** 1997;18(1):31-2; discussion 37-40. Comment on: Neurotoxicology 1997 ;18(1):7-22.

TOXICITY

Effects of n-hexane and its metabolites on cloned voltage-operated neuronal potassium channels. Madeja M, et al. **Arch Toxicol** 1997;71(4):238-42

Exogenous stem cell factor (SCF) compensates for altered endogenous SCF expression in 2,5-hexanedione-induced testicular atrophy in rats. Allard EK, et al. **Biol Reprod** 1996 Jul;55(1):185-93

Alterations in the neutral proteinase activities of central and peripheral nervous systems of acrylamide-, carbon disulfide-, or 2,5-hexanedione-treated rats. Gupta RP, et al. **Mol Chem Neuropathol** 1996 Sep;29(1):53-66

Different administration schedules of the same dose of 2,5-hexanedione influence the development of neuropathy and the toxicokinetics. Misumi J, et al. **Neurochem Res** 1997 Jan;22(1):27-32

HEXESTROL

ANALOGS & DERIVATIVES

Lysosomal storage of sulphated glycosaminoglycans induced by dicationic amphiphilic drug molecules: significance of the central planar ring system. Lüllmann-Rauch R, et al. **Pharmacol Toxicol** 1996 Sep;79(3):109-13

CHEMICAL SYNTHESIS

Oxohexestrol derivatives labeled with fluorine-18. Synthesis, receptor binding and in vivo distribution of two non-steroidal estrogens as potential breast tumor imaging agents. Bergmann KE, et al. **Nucl Med Biol** 1994 Jan; 21(1):25-39

PHARMACOLOGY

Endocrine mechanisms of suppressive effect of low dose estrogen-antiandrogen treatment on androgen-dependent organs of male rats. Reznikov AG, et al. **J Endocrinol Invest** 1996 Nov;19(10):654-8

HEXETIDINE

Serratia marcescens nosocomial outbreak due to contamination of hexetidine solution. Bosi C, et al. **J Hosp Infect** 1996 Jul;33(3):217-24

ADMINISTRATION & DOSAGE

The effect of hexetidine spray on dental plaque following periodontal surgery. Bokor M. **J Clin Periodontol** 1996 Dec;23(12):1080-3

HEXOBARBITAL

METABOLISM

Antipyrine, theophylline, and hexobarbital as in vivo P450 probe drugs. Groen K, et al. **Methods Enzymol** 1996; 272:169-77

PHARMACOKINETICS

Endotoxin depresses hepatic cytochrome P450-mediated drug metabolism in women. Shedlofsky SI, et al. **Br J Clin Pharmacol** 1997 Jun;43(6):627-32

PHARMACOLOGY

Indole and (E)-2-hexenal, phytochemical potentiators of polymyxins against Pseudomonas aeruginosa and Escherichia coli. Kubo A, et al. **Antimicrob Agents Chemother** 1996 Jun;40(6):1438-41

Pregnenolone sulphate and pregnenolone do not interact with 5 beta-pregnanolone- and hexobarbitone-induced anaesthesia in the rat. Wang MD, et al. **Br J Anaesth** 1997 Mar;78(3):328-31

Acute zinc administration prolongs hexobarbitone-induced sleeping time in C57/6J mice. Tan BK, et al. **Pharmacol Res** 1995 Oct;32(4):233-6

TOXICITY

Genotoxic effects of 2-trans-hexenal in human buccal mucosa cells in vivo. Dittberner U, et al. **Mutat Res** 1997 Apr 24;390(1-2):161-5

HEXOBENDINE

THERAPEUTIC USE

[Instenon in the treatment of acute disorders of the cerebral circulation] Ignatenko AV, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1997;97(4):44-7 (Eng. Abstr.) **(Rus)**

[The use of Instenon to correct a postanesthesia consciousness disorder in surgical patients] Rumiantseva SA, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(6):88-9 **(Rus)**

HEXOKINASE

ANALYSIS

Quantitative enzyme- and immunohistochemistry of hexokinase and cytochrome c oxidase of spinal neurons in the zebrafish. van Raamsdonk W, et al. **Acta Histochem** 1996 Apr;98(2):143-55

Purification and characterisation of the hexokinase of Plasmodium berghei, a murine malaria parasite. Kumar S, et al. **Acta Vet Hung** 1997;45(2):119-26

Hexokinase and glucokinase activity in cross-linked and permeabilized pancreatic islets. Vanhoutte C, et al. **Int J Biochem Cell Biol** 1996 Oct;28(10):1117-22

Hexokinase present in human sperm is not tyrosine phosphorylated but its antibodies affect fertilizing capacity. Naz RK, et al. **J Androl** 1996 Mar-Apr;17(2):143-50

[Isoenzymatic characterization of the hexokinase in the development of Plebeia droryana (Hymenoptera, Apidae) and its relation with flight activity] de Paiva ML, et al. **Rev Bras Biol** 1995 Dec;55 Suppl 1:107-11 (Eng. Abstr.) **(Por)**

ANTAGONISTS & INHIBITORS

Hexokinase inactivation induced by ascorbic acid/Fe(II) in rabbit erythrocytes is independent of glutathione-reductive processes and appears to be mediated by dehydroascorbic acid. Fiorani M, et al. **Arch Biochem Biophys** 1997 Jun 15;342(2):191-6

BIOSYNTHESIS

Isolation of the promoter for Type I hexokinase from rat. White JA, et al. **Arch Biochem Biophys** 1996 Nov 1; 335(1):161-72

Regulation of overexpressed hexokinases in liver and islet cells. Newgard CB, et al. **Biochem Soc Trans** 1997 Feb; 25(1):118-22 (26 ref.)

Hexokinase II gene: structure, regulation and promoter organization. Printz RL, et al. **Biochem Soc Trans** 1997 Feb;25(1):107-12 (44 ref.)

Administration of fish oil by gavage increases the activities of hexokinase, glucose-6-phosphate dehydrogenase, and citrate synthase in rat lymphoid organs. Miyasaka CK, et

al. **Gen Pharmacol** 1996 Sep;27(6):991–4
Transcription of the rat skeletal muscle hexokinase II gene is increased by acute exercise. O'Doherty RM, et al. **J Appl Physiol** 1996 Aug;81(2):789–93
Testis-specific expression of mRNAs for a unique human type 1 hexokinase lacking the porin-binding domain. Mori C, et al. **Mol Reprod Dev** 1996 May;44(1):14–22
Properties and localization of a tyrosine phosphorylated form of hexokinase in mouse sperm. Visconti PE, et al. **Mol Reprod Dev** 1996 Jan;43(1):82–93
Purification and characterization of the hexokinase from Schistosoma mansoni, expressed in Escherichia coli. Armstrong RL, et al. **Protein Expr Purif** 1996 Nov; 8(3):374–80

BLOOD

Role of dehydroascorbate in rabbit erythrocyte hexokinase inactivation induced by ascorbic acid/Fe(II). Fiorani M, et al. **Arch Biochem Biophys** 1996 Oct 15;334(2):357–61
Identification of the cDNA for human red blood cell-specific hexokinase isozyme. Murakami K, et al. **Blood** 1997 Feb 1;89(3):762–6

CHEMISTRY

Structural determinants for the intracellular localization of the isozymes of mammalian hexokinase: intracellular localization of fusion constructs incorporating structural elements from the hexokinase isozymes and the green fluorescent protein. Sui D, et al. **Arch Biochem Biophys** 1997 Sep 1;345(1):111–25
Functional organization of mammalian hexokinases: characterization of the rat type III isozyme and its chimeric forms, constructed with the N- and C-terminal halves of the type I and type II isozymes. Tsai HJ, et al. **Arch Biochem Biophys** 1997 Feb 15;338(2):183–92
Isoenzymes related to flight activity in Tetragonisca angustula (Hymenoptera:Apidae:Meliponinae): evidence of postranslational modification of the hexokinase and detection of new glycerol-3-phosphate dehydrogenase variants. Castanheira EB, et al. **Biochem Genet** 1995 Dec; 33(11–12):365–75
Structural determinants that make hexokinase susceptible to ubiquitin- and ATP-dependent proteolysis. Crinelli R, et al. **Biochem Soc Trans** 1997 Feb;25(1):69S
ATP-binding site of human brain hexokinase as studied by molecular modeling and site-directed mutagenesis. Zeng C, et al. **Biochemistry** 1996 Oct 8;35(40):13157–64
Probing protein hydration and conformational states in solution. Reid C, et al. **Biophys J** 1997 Mar;72(3):1022–30
19F NMR measurements of the rotational mobility of proteins in vivo. Williams SP, et al. **Biophys J** 1997 Jan;72(1):490–8
Interaction with D-glucose and thermal denaturation of yeast hexokinase B: A DSC study. Catanzano F, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):568–77
Purification and characterization of the carboxyl-domain of human hexokinase type III expressed as fusion protein. Palma F, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):23–9

DEFICIENCY

Molecular bases of hexokinase deficiency. Bianchi M, et al. **Biochim Biophys Acta** 1997 May 24;1360(3):211–21

GENETICS

Structure of the gene for type I hexokinase from rat. White JA, et al. **Arch Biochem Biophys** 1997 Jul 15;343(2):207–14
Isolation of the promoter for Type I hexokinase from rat. White JA, et al. **Arch Biochem Biophys** 1996 Nov 1; 335(1):161–72
The evolution of hexokinases. Ureta T, et al. **Arch Biol Med Exp (Santiago)** 1987;20(3–4):343–57 (120 ref.)
Molecular cloning and biochemical characterization of hexokinases and phosphoglucomutases from Entamoeba histolytica and Entamoeba dispar. Ortner S, et al. **Arch Med Res** 1997;28 Spec No:81–2
Transcriptional regulation of hexokinase II in denervated rat skeletal muscle. Jones JP, et al. **Biochem Biophys Res Commun** 1997 Sep 8;238(1):53–5
Insulin-like growth factor I induces tumor hexokinase RNA expression in cancer cells. Sebastian S, et al. **Biochem Biophys Res Commun** 1997 Jun 18;235(2):389–93
Hexokinase II gene: structure, regulation and promoter organization. Printz RL, et al. **Biochem Soc Trans** 1997 Feb;25(1):107–12 (44 ref.)
Structure of the human hexokinase type I gene. Ruzzo A, et al. **Biochem Soc Trans** 1997 Feb;25(1):70S
Identification of the cDNA for human red blood cell-specific hexokinase isozyme. Murakami K, et al. **Blood** 1997 Feb 1;89(3):762–6
High glycolysis in gliomas despite low hexokinase transcription and activity correlated to chromosome 10 loss. Oudard S, et al. **Br J Cancer** 1996 Sep;74(6):839–45
Assignment of the hexokinase type 3 gene (HK3) to human chromosome band 5q35.3 by somatic cell hybrids and in situ hybridization. Colosimo A, et al. **Cytogenet Cell Genet** 1996;74(3):187–8
Assignment of hexokinase types 1,2,3 (Hk1,2,3) and glucokinase (Gck) to rat chromosome band 20q11, 4q34, 17q12 and 14q21 respectively, by in situ hybridization. Sebastian S, et al. **Cytogenet Cell Genet** 1997;77(3–4):266–7
A population association study of four candidate genes (hexokinase II, glucagon-like peptide-1 receptor, fatty acid binding protein-2, and apolipoprotein C-II) with type 2 diabetes and impaired glucose tolerance in Japanese subjects. Yagi T, et al. **Diabet Med** 1996 Oct;13(10):902–7
Cloning and biochemical characterisation of an Aspergillus niger glucokinase. Evidence for the presence of separate glucokinase and hexokinase enzymes. Panneman H, et al. **Eur J Biochem** 1996 Sep 15;240(3):518–25
Molecular analysis of the promoter region of the hexokinase 2 gene of Saccharomyces cerevisiae. Martínez-Campa C, et al. **FEMS Microbiol Lett** 1996 Mar 15;137(1):69–74
Sequence of human hexokinase III cDNA and assignment of the human hexokinase III gene (HK3) to chromosome band 5q35.2 by fluorescence in situ hybridization. Furuta H, et al. **Genomics** 1996 Aug 15;36(1):206–9
A novel (TA)n polymorphism in the hexokinase II gene: application to noninsulin-dependent diabetes mellitus in the Pima Indians. Ardehali H, et al. **Hum Genet** 1996 Apr; 97(4):482–5
Transcription of the rat skeletal muscle hexokinase II gene is increased by acute exercise. O'Doherty RM, et al. **J Appl Physiol** 1996 Aug;81(2):789–93
Glucose catabolism in cancer cells. The type II hexokinase promoter contains functionally active response elements for the tumor suppressor p53. Mathupala SP, et al. **J Biol Chem** 1997 Sep 5;272(36):22776–80
Effects of sodium butyrate on glucose transporter and glucose-phosphorylating enzyme gene expression in RINm5F insulinoma cells. Tiedge M, et al. **J Mol Endocrinol** 1996 Aug;17(1):19–26
Molecular biology of the hexokinase isoenzyme pattern that distinguishes pathogenic Entamoeba histolytica from nonpathogenic Entamoeba dispar. Ortner S, et al. **Mol Biochem Parasitol** 1997 May;86(1):85–94
Genetic expression of hexokinase and glucose phosphate isomerase in late-stage mouse preimplantation embryos: transcription activities in glucose/phosphate-containing HTF and glucose/phosphate-free P1 media. Johnson MD, et al. **Mol Hum Reprod** 1997 Apr;3(4):351–7
Quantification of hexokinase mRNA in mouse blastocysts by competitive reverse transcriptase polymerase chain reaction. Johnson MD, et al. **Mol Hum Reprod** 1997 Apr; 3(4):359–65
Sperm from mice carrying two t haplotypes do not possess a tyrosine phosphorylated form of hexokinase. Olds-Clarke P, et al. **Mol Reprod Dev** 1996 Jan;43(1):94–104
FDG uptake, tumor proliferation and expression of glycolysis associated genes in animal tumor models. Haberkorn U, et al. **Nucl Med Biol** 1994 Aug;21(6):827–34
High-level expression and purification of a human "mini"-hexokinase. Bianchi M, et al. **Protein Expr Purif** 1996 Feb;7(1):58–66

ISOLATION & PURIFICATION

Purification and characterisation of the hexokinase of Plasmodium berghei, a murine malaria parasite. Kumar S, et al. **Acta Vet Hung** 1997;45(2):119–26
High-level expression and purification of a human "mini"-hexokinase. Bianchi M, et al. **Protein Expr Purif** 1996 Feb;7(1):58–66

METABOLISM

Hexokinase II activity and messenger ribonucleic acid abundance in adipose tissue and skeletal muscle during pregnancy and lactation in rats. Yanase S, et al. **Am J Obstet Gynecol** 1997 Mar;176(3):651–5
GLUT2 and hexokinase control proximodistal gradient of intestinal glucose metabolism in the newborn pig. Cherbuy C, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):G1530–9
Metabolic modulation of hexokinase association with mitochondria in living smooth muscle cells. Lynch RM, et al. **Am J Physiol** 1996 Feb;270(2 Pt 1):C488–99
Gliomas are driven by glycolysis: putative roles of hexokinase, oxidative phosphorylation and mitochondrial ultrastructure. Oudard S, et al. **Anticancer Res** 1997 May-Jun;17(3C):1903–11
Thermostability of yeast hexokinase and yeast glucose-6-phosphate dehydrogenase. Zaitzeva EA, et al. **Appl Biochem Biotechnol** 1996 Oct-Nov;61(1–2):67–74
Effects of carbamylcholine and pyridostigmine on mitochondrial-bound hexokinase in skeletal muscle and heart. Glass-Marmor L, et al. **Biochem Mol Med** 1996 Feb; 57(1):67–70
Abnormal regulation of hexokinase in insulin-resistant skeletal muscle. Sanderson AL, et al. **Biochem Mol Med** 1996 Oct;59(1):80–6
Complexes between hexokinase, mitochondrial porin and adenylate translocator in brain: regulation of hexokinase, oxidative phosphorylation and permeability transition pore. Beutner G, et al. **Biochem Soc Trans** 1997 Feb;25(1):151–7
Kinetic behaviour of vertebrate hexokinases with emphasis on hexokinase D (IV). Cárdenas ML. **Biochem Soc Trans** 1997 Feb;25(1):131–5 (53 ref.)
Structural determinants that make hexokinase susceptible to ubiquitin- and ATP-dependent proteolysis. Crinelli R, et al. **Biochem Soc Trans** 1997 Feb;25(1):69S
Hexokinase expression in liver preneoplasia and neoplasia. Mayer D, et al. **Biochem Soc Trans** 1997 Feb;25(1):122–7 (32 ref.)
Phosphorylation of hexokinase in insulin resistance. Sanderson AL, et al. **Biochem Soc Trans** 1997 Feb;25(1):68S
Teratogenic potential of free-radicals and hexokinase isoenzymes in the postimplantational "diabetic" rat conceptus. Sharma R, et al. **Biochem Soc Trans** 1996 May; 24(2):235S
Properties and function in metabolism of schistosomal hexokinase. Tielens AG. **Biochem Soc Trans** 1997 Feb; 25(1):127–31 (27 ref.)
An introduction to the isoenzymes of mammalian hexokinase types I–III. Wilson JE. **Biochem Soc Trans** 1997 Feb; 25(1):103–7 (49 ref.)
Autophosphorylation-inactivation site of hexokinase 2 in Saccharomyces cerevisiae. Heidrich K, et al. **Biochemistry** 1997 Feb 25;36(8):1960–4
Source of ATP for hexokinase-catalyzed glucose phosphorylation in tumor cells: dependence on the rate of oxidative phosphorylation relative to that of extramitochondrial ATP generation. Shinohara Y, et al. **Biochim Biophys Acta** 1997 Apr 11;1319(2–3):319–30
Limitation of glycolysis by hexokinase in rat brain synaptosomes during intense ion pumping. Erecińska M, et al. **Brain Res** 1996 Jul 8;726(1–2):153–9
Neurohumoral activation in heart failure: role of paraventricular nucleus. Patel KP, et al. **Clin Exp Pharmacol Physiol** 1996 Aug;23(8):722–6 (42 ref.)
Changes in pancreatic islet glucokinase and hexokinase activities with increasing age, obesity, and the onset of diabetes. Cockburn BN, et al. **Diabetes** 1997 Sep; 46(9):1434–9
Hexokinase shift to mitochondria is associated with an increased sensitivity to glucose in rat pancreatic islets. Rabuazzo AM, et al. **Diabetes** 1997 Jul;46(7):1148–52
Unequal potency of transgenic yeast hexokinase on pancreatic beta cell metabolism and secretion. Xu B, et al. **Endocr Res** 1996 May;22(2):147–58
Differential requirement of the yeast sugar kinases for sugar sensing in establishing the catabolite-repressed state. De Winde JH, et al. **Eur J Biochem** 1996 Oct 15;241(2):633–43
Complexes between kinases, mitochondrial porin and adenylate translocator in rat brain resemble the permeability transition pore. Beutner G, et al. **FEBS Lett** 1996 Nov 4;396(2–3):189–95
Enhanced catalytic activity of hexokinase by work-induced mitochondrial binding in fast-twitch muscle of rat. Parra J, et al. **FEBS Lett** 1997 Feb 24;403(3):279–82
The glycolytic function of hexokinases is not required for catabolite repression in Candida utilis. Espinel AE, et al. **Folia Microbiol (Praha)** 1996;41(1):88–9
Mitochondrial enzymes increase in muscle in response to 7–10 days of cycle exercise. Spina RJ, et al. **J Appl Physiol** 1996 Jun;80(6):2250–4
Homologous and heterologous interactions between hexokinase and mitochondrial porin: evolutionary implications. Wilson JE. **J Bioenerg Biomembr** 1997 Feb; 29(1):97–102 (38 ref.)
Influence of alkaline ionized water on rat erythrocyte hexokinase activity and myocardium. Watanabe T, et al. **J Toxicol Sci** 1997 May;22(2):141–52
Purification and characterization of the carboxyl-domain of human hexokinase type III expressed as fusion protein. Palma F, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):23–9
GIP regulates glucose transporters, hexokinases, and glucose-induced insulin secretion in RIN 1046–38 cells. Wang Y, et al. **Mol Cell Endocrinol** 1996 Jan 15;116(1):81–7
Expression and activity of hexokinase in the early mouse embryo. Houghton FD, et al. **Mol Hum Reprod** 1996 Oct; 2(10):793–8
Evidence that glucose metabolism is decreased in the cerebrum of aged female senescence-accelerated mouse; possible involvement of a low hexokinase activity. Kurokawa T, et al. **Neurosci Lett** 1996 Aug 16;214(1):45–8
The interaction among glucose transport, hexokinase, and glucose-6-phosphatase with respect to 3H-2-deoxyglucose retention in murine tumor models. Nelson CA, et al. **Nucl Med Biol** 1996 May;23(4):533–41
Hexokinase as a sugar sensor in higher plants. Jang JC, et al. **Plant Cell** 1997 Jan;9(1):5–19
[Properties of free and bound glycolytic enzymes from the scorpionfish brain. I. Hexokinase] Lushchak VI, et al. **Ukr Biokhim Zh** 1996 May-Jun;68(3):42–7 (Eng. Abstr.) **(Ukr)**

PHYSIOLOGY

Glucose 6-phosphate produced by glucokinase, but not hexokinase I, promotes the activation of hepatic glycogen synthase. Seoane J, et al. **J Biol Chem** 1996 Sep 27; 271(39):23756–60

HEXOPRENALINE

ADVERSE EFFECTS

Torsade de pointes in a patient using usual dose of beta agonist therapy [letter] Chao CL, et al. **Int J Cardiol** 1996 Dec 13;57(3):295–6

THERAPEUTIC USE

Betamimetics in fetal distress: randomised controlled trial. Kulier R, et al. **J Perinat Med** 1997;25(1):97–100

HEXOSAMINES

ANALYSIS

Structure of the capsular polysaccharide from Alteromonas nigrifaciens IAM 13010T containing 2-acetamido-2,6-dideoxy-L-talose and 3-deoxy-D-manno-octulosonic acid. Gorshkova RP, et al. **Carbohydr Res** 1997 Mar 26;299(1-2):69-76

BIOSYNTHESIS

Effects of exercise and feeding on the hexosamine biosynthetic pathway in rat skeletal muscle. Nelson BA, et al. **Am J Physiol** 1997 May;272(5 Pt 1):E848-55

Differential effects of GLUT1 or GLUT4 overexpression on hexosamine biosynthesis by muscles of transgenic mice. Buse MG, et al. **J Biol Chem** 1996 Sep 20;271(38):23197-202

CHEMISTRY

Substitutions at C2' of daunosamine in the anticancer drug daunorubicin alter its DNA-binding sequence specificity. Gao YG, et al. **Eur J Biochem** 1996 Sep 1;240(2):331-5

METABOLISM

Increased activity of the hexosamine synthesis pathway in muscles of insulin-resistant ob/ob mice. Buse MG, et al. **Am J Physiol** 1997 Jun;272(6 Pt 1):E1080-8

Increased flux through the hexosamine biosynthesis pathway inhibits glucose transport acutely by activation of protein kinase C. Filippis A, et al. **Biochem J** 1997 Jun 15;324 (Pt 3):981-5

Mechanism of anomerization of cyclohexyl 2-deoxy-3,4,6-tri-O-methyl-2-(N-methylacetamido)-alpha- and beta-D-hexopyranosides under reductive-cleavage conditions. Ahn YM, et al. **Carbohydr Res** 1996 Dec 24;296:215-27

Increased hexosamine availability similarly impairs the action of insulin and IGF-1 on glucose disposal. Hawkins M, et al. **Diabetes** 1996 Dec;45(12):1734-43

Activation of the hexosamine pathway by glucosamine in vivo induces insulin resistance in multiple insulin sensitive tissues. Virkamäki A, et al. **Endocrinology** 1997 Jun; 138(6):2501-7

Engineering chemical reactivity on cell surfaces through oligosaccharide biosynthesis. Mahal LK, et al. **Science** 1997 May 16;276(5315):1125-8

PHARMACOLOGY

Effects of the amino sugars, glucosamine, mannosamine, or the fluorinated derivative 2-deoxy-fluoroglucose on the phosphatidyl inositol and glycosyl phosphatidyl inositol systems of Tetrahymena. Kovács P, et al. **Microbios** 1997; 89(359):91-104

HEXOSAMINIDASE see **BETA-N-ACETYLHEXOSAMINIDASE**

HEXOSAMINIDASE A see **BETA-N-ACETYLHEXOSAMINIDASE**

HEXOSAMINIDASE B see **BETA-N-ACETYLHEXOSAMINIDASE**

HEXOSAMINIDASE ISOENZYMES see **BETA-N-ACETYLHEXOSAMINIDASE**

HEXOSAMINIDASE ISOZYMES see **BETA-N-ACETYLHEXOSAMINIDASE**

HEXOSAMINIDASES

see related **GANGLIOSIDOSES**

BIOSYNTHESIS

Synthesis, sorting, and processing into distinct isoforms of human macrophage chitotriosidase. Renkema GH, et al. **Eur J Biochem** 1997 Mar 1;244(2):279-85

BLOOD

Plasma chitotriosidase activity in Gaucher disease patients who have been treated either by bone marrow transplantation or by enzyme replacement therapy with alglucerase. Young E, et al. **J Inherit Metab Dis** 1997 Aug; 20(4):595-602

DEFICIENCY

A case of type I Gaucher disease with cardiopulmonary amyloidosis and chitotriosidase deficiency. Hřebíček M, et al. **Virchows Arch** 1996 Nov;429(4-5):305-9

HEXOSE MONOPHOSPHATE SHUNT see **PENTOSEPHOSPHATE PATHWAY**

HEXOSE TRANSPORT PROTEINS see **MONOSACCHARIDE TRANSPORT PROTEINS**

HEXOSEDIPHOSPHATASE see **FRUCTOSE-BISPHOSPHATASE**

HEXOSEPHOSPHATE AMINOTRANSFERASE see **GLUCOSAMINEPHOSPHATE ISOMERASE (GLUTAMINE-FORMING)**

HEXOSEPHOSPHATE URIDYLYLTRANSFERASE

DEFICIENCY

A mouse model of galactose-1-phosphate uridyl transferase deficiency. Leslie ND, et al. **Biochem Mol Med** 1996 Oct; 59(1):7-12

METABOLISM

Structure/function analysis of the PII signal transduction protein of Escherichia coli: genetic separation of interactions with protein receptors. Jiang P, et al. **J Bacteriol** 1997 Jul;179(13):4342-53

Probing interactions of the homotrimeric PII signal transduction protein with its receptors by use of PII heterotrimers formed in vitro from wild-type and mutant subunits. Jiang P, et al. **J Bacteriol** 1997 Jul;179(13):4354-60

HEXOSEPHOSPHATES

METABOLISM

Release of fructose and hexose phosphates from perivascular cells induced by low density lipoprotein and acceleration of protein glycation in vitro. Takeda H, et al. **Diabetes Res Clin Pract** 1996 Mar;31(1-3):1-8

Substrate autoregulation of glucose transport: hexose 6-phosphate mediates the cellular distribution of glucose transporters. Sasson S, et al. **Diabetologia** 1997 Jan; 40(1):30-9

The further metabolism of sorbitol-3-phosphate and fructose-3-phosphate in the mature rat lens. Cheng HM, et al. **Ophthalmic Res** 1996;28(1):57-63

Sustained oscillations in free-energy state and hexose phosphates in yeast. Richard P, et al. **Yeast** 1996 Jun 30; 12(8):731-40

HEXOSES

Effect of water on lamellar structure of DPPC/sugar systems. Nagase H, et al. **Biochim Biophys Acta** 1997 Sep 4; 1328(2):197-206

ADVERSE EFFECTS

Sorbitan mono-oleate: a potential allergen in paste bandages. Wakelin SH, et al. **Contact Dermatitis** 1996 Dec;35(6):377

ANALYSIS

Identification of beta-L-gulose as the sugar moiety of the main polar lipid Thermoplasma acidophilum. Swain M, et al. **Biochim Biophys Acta** 1997 Mar 10;1345(1):56-64

BIOSYNTHESIS

Biosynthesis of 3,6-dideoxyhexoses: in vivo and in vitro evidence for protein-protein interaction between CDP-6-deoxy-L-threo-D-glycero-4-hexulose 3-dehydrase (E1) and its reductase (E3). Chen XM, et al. **Biochemistry** 1996 Dec 24;35(51):16412-20

Kinetic characterization of an organic radical in the ascarylose biosynthetic pathway. Johnson DA, et al. **Biochemistry** 1996 Dec 10;35(49):15846-56

BLOOD

Proteinuria and plasma hexosugars in early-stage glomerulonephritis. Pitkanen E. **Clin Nephrol** 1996 Apr; 45(4):226-9

[A modified method of gas chromatography of sugars in human blood] Chepurnoĭ IP, et al. **Klin Lab Diagn** 1997 Jan;(1):31-2 **(Rus)**

CHEMICAL SYNTHESIS

Cladinose analogues of sixteen-membered macrolide antibiotics. III. Efficient synthesis of 4-O-alkyl-L-cladinose analogues: improved antibacterial activities compatible with pharmacokinetics. Kurihara K, et al. **J Antibiot (Tokyo)** 1997 Jan;50(1):32-44

CHEMISTRY

Hexose keto-C-glycoside conjugates: design, synthesis, cytotoxicity, and evaluation of their affinity for the glucose transporter Glut-1. Uriel C, et al. **Bioorg Med Chem** 1996 Dec;4(12):2081-90

Synthesis and conformational studies of the tyvelose capped, Lewis-x like tetrasaccharide epitope of Trichinella spiralis. Zhang J, et al. **Bioorg Med Chem** 1996 Nov;4(11):1989-2001

Synthesis of alpha- and beta-linked tyvelose epitopes of the Trichinella spiralis glycan: 2-acetamido-2-deoxy-3-O-(3,6-dideoxy-D-arabino-hexopyranosyl)-beta -D-galactopyranosides. Probert MA, et al. **Carbohydr Res** 1996 Dec 24;296:149-70

Terminal beta-linked tyvelose creates unique epitopes in Trichinella spiralis glycan antigens. Ellis LA, et al. **Glycobiology** 1997 Apr;7(3):383-90

Cladinose analogues of sixteen-membered macrolide antibiotics. IV. Improved therapeutic effects of 4-O-acyl-L-cladinose analogues of sixteen-membered macrolide antibiotics. Ajito K, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):150-61

Conformationally constrained analogues of diacylglycerol. 13. Protein kinase C ligands based on templates derived from 2,3-dideoxy-L-erythro(threo)-hexono-1,4-lactone and 2-deoxyapiolactone [published erratum appears in J Med Chem 1997 May 9;40(10):1560] Lee J, et al. **J Med Chem** 1996 Dec 6;39(25):4912-9

On the origin of elementary hexoses. Hirabayashi J. **Q Rev Biol** 1996 Sep;71(3):365-80 (56 ref.)

IMMUNOLOGY

Terminal beta-linked tyvelose creates unique epitopes in Trichinella spiralis glycan antigens. Ellis LA, et al. **Glycobiology** 1997 Apr;7(3):383-90

METABOLISM

The effect of GIP and glucagon-like peptides on intestinal basolateral membrane hexose transport. Cheeseman CI, et al. **Am J Physiol** 1996 Sep;271(3 Pt 1):G477-82

Alanine as an end product during fermentation of monosaccharides by Clostridium strain P2. Orlygsson J, et al. **Antonie Van Leeuwenhoek** 1995 Nov;68(4):273-80

Hexose metabolism in pancreatic islets: apparent dissociation between the secretory and metabolic effects of D-fructose. Sener A, et al. **Biochem Mol Med** 1996 Dec;59(2):182-6

Barbiturate inhibition of GLUT-1 mediated hexose transport in human erythrocytes exhibits substrate dependence for equilibrium exchange but not unidirectional sugar flux. el-Barbary A, et al. **Biochemistry** 1996 Dec 3; 35(48):15222-7

Kinetic analysis of hexose uptake in Saccharomyces cerevisiae cultivated in continuous culture. Meijer MM, et al. **Biochim Biophys Acta** 1996 Dec 18;1277(3):209-16

Transition metal saccharide chemistry and biology: synthesis, characterization, electrochemistry and EPR studies of oxovanadium (IV) complexes of saccharides and their derivatives and in vitro interaction of some of these with ribonuclease and deoxyribonuclease. Sreedhara A, et al. **Carbohydr Res** 1996 Aug 19;289:39-53

The molecular genetics of hexose transport in yeasts. Boles E, et al. **FEMS Microbiol Rev** 1997 Aug;21(1):85-111 (177 ref.)

Inhibition of glucose absorption in the rat jejunum: a novel action of alpha-D-glucosidase inhibitors. Hirsh AJ, et al. **Gastroenterology** 1997 Jul;113(1):205-11

Conversion of D-hamamelose into 2-carboxy-D-arabinitol and 2-carboxy-D-arabinitol 1-phosphate in leaves of Phaseolus vulgaris L. Andralojc PJ, et al. **J Biol Chem** 1996 Oct 25;271(43):26803-9

Metabolic pathway of 2-deoxy-2-[18F]fluoro-D-talose in mice: trapping in tissue after phosphorylation by galactokinase. Haradahira T, et al. **Nucl Med Biol** 1994 Feb;21(2):269-76

PHARMACOKINETICS

Kinetics of hexose uptake by the small and large intestine of the chicken. Amat C, et al. **Am J Physiol** 1996 Oct;271(4 Pt 2):R1085-9

Cladinose analogues of sixteen-membered macrolide antibiotics. II. Preparation of pharmacokinetically improved analogues via biotransformation. Ajito K, et al. **J Antibiot (Tokyo)** 1997 Jan;50(1):92-5

PHARMACOLOGY

Fructose and tagatose protect against oxidative cell injury by iron chelation. Valeri F, et al. **Free Radic Biol Med** 1997;22(1-2):257-68

Myofibril-bound muscle phosphofructokinase is less sensitive to inhibition by ATP than the free enzyme, but retains its sensitivity to stimulation by bisphosphorylated hexoses. Andrés V, et al. **Int J Biochem Cell Biol** 1996 Oct; 28(10):1179-84

THERAPEUTIC USE

Cladinose analogues of sixteen-membered macrolide antibiotics. IV. Improved therapeutic effects of 4-O-acyl-L-cladinose analogues of sixteen-membered macrolide antibiotics. Ajito K, et al. **J Antibiot (Tokyo)** 1997 Feb;50(2):150-61

HEXOSYLTRANSFERASES

BIOSYNTHESIS

Susceptibility to beta-lactam antibiotics of Pseudomonas aeruginosa overproducing penicillin-binding protein 3. Liao X, et al. **Antimicrob Agents Chemother** 1997 May; 41(5):1158-61

CHEMISTRY

Domain-swapping analysis of FtsI, FtsL, and FtsQ, bitopic membrane proteins essential for cell division in Escherichia coli. Guzman LM, et al. **J Bacteriol** 1997 Aug; 179(16):5094-103

Dual multimodular class A penicillin-binding proteins in Mycobacterium leprae. Lepage S, et al. **J Bacteriol** 1997 Jul;179(14):4627-30

GENETICS

In vitro selection of one-step mutants of Streptococcus pneumoniae resistant to different oral beta-lactam antibiotics is associated with alterations of PBP2x. Sifaoui F, et al. **Antimicrob Agents Chemother** 1996 Jan;40(1):152-6

Pseudomonas aeruginosa rfc genes of serotypes O2 and O5 could complement O-polymerase-deficient semi-rough mutants of either serotype. de Kievit TR, et al. **FEMS Microbiol Lett** 1997 Feb 15;147(2):251-7

Development of a technique for multiple site-directed mutagenesis of the ftf gene of Streptococcus salivarius containing palindromic sequences. Rathsam C, et al. **FEMS Microbiol Lett** 1997 Aug 15;153(2):447-53

Expression of the Streptococcus mutans fructosyltransferase gene within a mammalian host. Grey WT, et al. **Infect Immun** 1997 Jun;65(6):2488-90

Genetic and chemical characterization of a mutant that disrupts synthesis of the lipopolysaccharide core tetrasaccharide in Rhizobium leguminosarum. Allaway D, et al. **J Bacteriol** 1996 Nov;178(21):6403-6

A promoter for the first nine genes of the Escherichia coli mra cluster of cell division and cell envelope biosynthesis genes, including ftsI and ftsW. Hara H, et al. **J Bacteriol** 1997 Sep;179(18):5802-11

Identification of a penicillin-binding protein 3 homolog, PBP3x, in Pseudomonas aeruginosa: gene cloning and growth phase-dependent expression. Liao X, et al. **J Bacteriol** 1997 Mar;179(5):1490-6

Identification and characterization of pbpC, the gene encoding Bacillus subtilis penicillin-binding protein 3. Murray T, et al. **J Bacteriol** 1996 Oct;178(20):6001-5

Roles of Pseudomonas aeruginosa las and rhl quorum-sensing systems in control of elastase and rhamnolipid biosynthesis genes. Pearson JP, et al. **J Bacteriol** 1997 Sep; 179(18):5756-67

Cloning and characterization of the ponA gene encoding penicillin-binding protein 1 from Neisseria gonorrhoeae and Neisseria meningitidis. Ropp PA, et al. **J Bacteriol** 1997 Apr;179(8):2783-7

Molecular characterization of a mutation affecting the amount of Streptococcus pneumoniae penicillin-binding protein 3. Selakovitch-Chenu L, et al. **Microb Drug Resist** 1997 Fall;3(3):259-62

The gene cluster directing O-antigen biosynthesis in Yersinia enterocolitica serotype 0:8: identification of the genes for mannose and galactose biosynthesis and the gene for the O-antigen polymerase. Zhang L, et al. **Microbiology** 1996 Feb;142 (Pt 2):277-88

METABOLISM

Production of levan, a fructose polymer, using an overexpressed recombinant levansucrase. Song KB, et al. **Ann N Y Acad Sci** 1996 Oct 12;799:601-7

Increased production of penicillin-binding protein 2, increased detection of other penicillin-binding proteins, and decreased coagulase activity associated with glycopeptide resistance in Staphylococcus aureus. Moreira B, et al. **Antimicrob Agents Chemother** 1997 Aug;41(8):1788-93

Synthesis of methyl 6-O-beta-inulotriosyl-alpha-D-glucopyranoside by intermolecular transglycosylation reaction of cycloinulo-oligosaccharide fructanotransferase. Kawamura M, et al. **Carbohydr Res** 1997 Jan 2;297(2):187-90

Fructan synthesis in transgenic tobacco and chicory plants expressing barley sucrose: fructan 6-fructosyltransferase. Sprenger N, et al. **FEBS Lett** 1997 Jan 6;400(3):355-8

Studies of the action of ceramide-like substances (D- and L-PDMP) on sphingolipid glycosyltransferases and purified lactosylceramide synthase. Chatterjee S, et al. **Glycoconj J** 1996 Jun;13(3):481-6

The bimodular G57-V577 polypeptide chain of the class B penicillin-binding protein 3 of Escherichia coli catalyzes peptide bond formation from thiolesters and does not catalyze glycan chain polymerization from the lipid II intermediate. Adam M, et al. **J Bacteriol** 1997 Oct; 179(19):6005-9

The non-penicillin-binding module of the tripartite penicillin-binding protein 3 of Escherichia coli is required for folding and/or stability of the penicillin-binding module and the membrane-anchoring module confers cell septation activity on the folded structure. Goffin C, et al. **J Bacteriol** 1996 Sep;178(18):5402-9

Topographical and functional investigation of Escherichia coli penicillin-binding protein 1b by alanine stretch scanning mutagenesis. Lefèvre F, et al. **J Bacteriol** 1997 Aug;179(15):4761-7

Dual multimodular class A penicillin-binding proteins in Mycobacterium leprae. Lepage S, et al. **J Bacteriol** 1997 Jul;179(14):4627-30

Sphingolipid synthesis as a target for antifungal drugs. Complementation of the inositol phosphorylceramide synthase defect in a mutant strain of Saccharomyces cerevisiae by the AUR1 gene. Nagiec MM, et al. **J Biol Chem** 1997 Apr 11;272(15):9809-17

Generation of unmarked directed mutations in mycobacteria, using sucrose counter-selectable suicide vectors. Pelicic V, et al. **Mol Microbiol** 1996 Jun;20(5):919-25

Fructan of the inulin neoseries is synthesized in transgenic chicory plants (Cichorium intybus L.) harbouring onion (Allium cepa L.) fructan:fructan 6G-fructosyltransferase. Vijn I, et al. **Plant J** 1997 Mar;11(3):387-98

Inactivation of FtsI inhibits constriction of the FtsZ cytokinetic ring and delays the assembly of FtsZ rings at potential division sites. Pogliano J, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):559-64

The targeting of Bacillus subtilis levansucrase in yeast is correlated to both the hydrophobicity of the signal peptide and the net charge of the N-terminus mature part. Scotti PA, et al. **Yeast** 1996 Aug;12(10):953-63

HEXOURONIC ACIDS see **HEXURONIC ACIDS**

HEXURONIC ACIDS

ANALYSIS

An HPLC method for the quantitative determination of hexeneuronic acid groups in chemical pulps. Gellerstedt G, et al. **Carbohydr Res** 1996 Nov 20;294:41-51

Isolation of heparin-derived oligosaccharides containing 2-O-sulfated hexuronic acids, by lipoprotein lipase affinity chromatography. Parthasarathy N, et al. **J Biochem Biophys Methods** 1996 Apr;32(1):27-32

CHEMICAL SYNTHESIS

Synthesis and characterization of tyramine-derivatized (1-->4)-linked alpha-D-oligogalacturonides. Spiro MD, et al. **Carbohydr Res** 1996 Sep 2;290(2):147-57

CHEMISTRY

A method for biotin labeling of biologically active oligogalacturonides using a chemically stable hydrazide linkage. Ridley BL, et al. **Anal Biochem** 1997 Jun 15; 249(1):10-9

Structure of the O-specific polysaccharide of the bacterium Proteus mirabilis O13 containing a novel component: an amide of D-galacturonic acid with N(epsilon)-91-carboxyethyl)lysine. Shashkov AS, et al. **Biochemistry (Mosc)** 1997 May;62(5):509-13

X-ray study of beijeran sodium salts, a new galacturonic acid-containing exo-polysaccharide. Ogawa K, et al. **Carbohydr Res** 1997 May 9;300(1):41-5

METABOLISM

Separation of 8-aminonaphthalene-1,3,6-trisulfonate (ANTS)-labeled oligomers containing galacturonic acid by capillary electrophoresis: application to determining the substrate specificity of endopolygalacturonases. Mort AJ, et al. **Electrophoresis** 1996 Feb;17(2):379-83

Detection and differentiation of pectic enzyme activity in vitro and in vivo by capillary electrophoresis of products from fluorescent-labeled substrate. Zhang Z, et al. **Electrophoresis** 1996 Feb;17(2):372-8

Turnover of heparan sulfate depends on 2-O-sulfation of uronic acids. Bai X, et al. **J Biol Chem** 1997 Sep 12; 272(37):23172-9

HEXYLRESORCINOL

ANALYSIS

Determination of noscapine, hexylresorcinol and anethole in cough lozenges by liquid chromatography. Lucangioli S, et al. **Boll Chim Farm** 1996 Jun;135(6):387-90

HEYMANN NEPHRITIS see **GLOMERULONEPHRITIS**

HFRS see **HEMORRHAGIC FEVER WITH RENAL SYNDROME**

HFRS VIRUS see **HANTAAN VIRUS**

HIATAL HERNIA see **HERNIA, HIATAL**

HIBERNATION

Preservation of intestinal gene expression during hibernation. Carey HV, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):G804-13

Natural hypothermia and sleep deprivation: common effects on recovery sleep in the Djungarian hamster. Deboer T, et al. **Am J Physiol** 1996 Nov;271(5 Pt 2):R1364-71

Leptin inhibits prehibernation hyperphagia and reduces body weight in arctic ground squirrels. Ormseth OA, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):R1775-9

Adrenergic signal transduction in the brainstem of euthermic and hibernating European hamsters. Nürnberger F, et al. **Ann N Y Acad Sci** 1997 Mar 15;813:705-11

The effect of some peptides from the hibernating brain on Ca2+ current in cardiac cells and on the activity of septal neurons. Kokoz YM, et al. **FEBS Lett** 1997 Jul 7; 411(1):71-6

Sleep during arousal episodes as a function of prior torpor duration in hibernating European ground squirrels. Strijkstra AM, et al. **J Sleep Res** 1997 Mar;6(1):36-43

Decreased calcium accumulation in isolated nerve endings during hibernation in ground squirrels. Gentile NT, et al. **Neurochem Res** 1996 Aug;21(8):947-54

The use of hibernation induction triggers for cardiac transplant preservation. Bolling SF, et al. **Transplantation** 1997 Jan 27;63(2):326-9

[ATPase and regulatory properties of skeletal muscle myosin in Citellus undulatus susliks during various stages of winter hibernation] Lukoianova NA, et al. **Biofizika** 1997 Mar-Apr;42(2):343-8 (Eng. Abstr.) **(Rus)**

[Decrease in brain temperature during paradoxical sleep enables entry into torpor and hibernation] Pastukhov IuF, et al. **Dokl Akad Nauk** 1996 May;348(2):272-4 **(Rus)**

GENETICS

Occurrence of a differential expression of the glyceraldehyde-3-phosphate dehydrogenase gene in muscle and liver from euthermic and induced hibernating jerboa (Jaculus orientalis). Soukri A, et al. **Gene** 1996 Nov 28;181(1-2):139-45

PHYSIOLOGY

Temperature sensitivity of sleep homeostasis during hibernation in the golden-mantled ground squirrel. Larkin JE, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):R777-84

Effects of hibernation on neural and endothelial control of mesenteric arteries of the golden hamster. Ralevic V, et al. **Am J Physiol** 1997 Jul;273(1 Pt 2):H148-55

Myocardial bioenergetics during acute hibernation. Zhang J, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1452-63

Use of "natural" hibernation induction triggers for myocardial protection. Bolling SF, et al. **Ann Thorac Surg** 1997 Sep; 64(3):623-7

Carboxyatractylate- and cyclosporin A- sensitive uncoupling in liver mitochondria of ground squirrels during hibernation and arousal. Amerkhanov ZG, et al. **Biochem Mol Biol Int** 1996 Apr;38(5):863-70

Seasonal changes in myoglobin content in muscles of hibernating Yakutian ground squirrels. Postnikova GB, et al. **Biochemistry (Mosc)** 1997 Feb;62(2):141-4

Autoradiographic determination of changes in opioid receptor binding in the limbic system of the Columbian ground squirrel at different hibernation states. Cui Y, et al. **Brain Res** 1997 Feb 7;747(2):189-94

In vivo microdialysis study on changes in septal dynorphin and beta-endorphin activities in active and hibernating Columbian ground squirrels. Cui Y, et al. **Brain Res** 1996 Feb 26;710(1-2):271-4

The somatostatin system of the brain and hibernation in the European hamster (Cricetus cricetus). Nürnberger F, et al. **Cell Tissue Res** 1997 Jun;288(3):441-7

Season related ultrastructural features of the parotid, submandibular and von Ebner's glands in hibernating bats. Azzali G, et al. **Eur J Morphol** 1996 Aug;34(3):169-75

An ultrastructural and cytochemical study of the mesonephros of Rana esculenta during activity and hibernation. Fenoglio C, et al. **Eur J Morphol** 1996; 34(2):107-21

Dense granular bodies: a novel nucleoplasmic structure in hibernating dormice. Tamburini M, et al. **Histochem Cell Biol** 1996 Dec;106(6):581-6

Effects of gonadal sex steroids on sexual behavior in the big brown bat, Eptesicus fuscus, upon arousal from hibernation. Mendonça MT, et al. **Horm Behav** 1996 Jun;30(2):153-61

Neurochemical coding in the myenteric plexus of the upper gastrointestinal tract of hibernating hamsters. Shochina M, et al. **Int J Dev Neurosci** 1997 Jun;15(3):353-62

Hibernation enhances D-glucose uptake by intestinal brush border membrane vesicles in ground squirrels. Carey HV, et al. **J Comp Physiol [B]** 1996;166(4):254-61

Dietary cholesterol enhances torpor in a rodent hibernator. Geiser F, et al. **J Comp Physiol [B]** 1997 Aug;167(6):416-22

Timing of torpor bouts during hibernation in European hamsters (Cricetus cricetus L.). Wassmer T, et al. **J Comp Physiol [B]** 1997 May;167(4):270-9

Rates of rewarming, heart and respiratory rates and their significance for oxygen transport during arousal from torpor in the smallest mammal, the Etruscan shrew Suncus etruscus. Fons R, et al. **J Exp Biol** 1997 May;200 (Pt 10):1451-8

Simulated hibernation of sea turtles in the laboratory: I. Feeding, breathing frequency, blood pH, and blood gases. Moon DY, et al. **J Exp Zool** 1997 Aug 15;278(6):372-80

The response to calorie restriction in mammals shows features also common to hibernation: a cross-adaptation hypothesis. Walford RL, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jul;52(4):B179-83 (58 ref.)

The kinetic characteristics of the L-type calcium channels in cardiocytes of hibernators. I. Development of a kinetic model. Alekseev AE, et al. **Membr Cell Biol** 1997; 11(1):31-44

Protein kinase C from bat brain: the enzyme from a hibernating mammal. Mehrani H, et al. **Neurochem Int** 1997 Jul;31(1):139-50

Hypothermia-induced changes of afferent sensory transmission to the SI cortex of rats and hamsters. Won CK, et al. **Neuroreport** 1996 Dec 20;8(1):41-4

Histamine enhances synaptic transmission in hippocampal slices from hibernating and warm-acclimated Turkish hamsters. Nikmanesh FG, et al. **Neurosci Lett** 1996 May 31;210(2):119-20

Ambient temperature during torpor affects NREM sleep EEG during arousal episodes in hibernating European ground squirrels. Strijkstra AM, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):177-80

Kinetic parameters of the ionic currents in myelinated axons: characterization of temperature effects in a hibernator and a nonhibernator. Russ U, et al. **Pflugers Arch** 1996 Apr;

431(6):888–94
Unpredictable deprivation of water increases the probability of torpor in the Syrian hamster. Ibuka N, et al. **Physiol Behav** 1997 Sep;62(3):551–6
Seasonal variation in levels of prostaglandins D2, E2 and F2(alpha) in the brain of a mammalian hibernator, the Asian chipmunk. Takahata R, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Jan; 54(1):77–81
[Experimental analysis of the calcium source for cardiac excitation–contraction coupling in hibernator Citellus dauricus] Wang SQ, et al. **Sheng Li Hsueh Pao** 1995 Dec; 47(6):551–8 (Eng. Abstr.) **(Chi)**
[Changes of opioid contents in brain and plasma through the hibernation bout cycle of ground squirrels- Ye ZC, et al. **Sheng Li Hsueh Pao** 1995 Dec;47(6):610–4 (Eng. Abstr.) **(Chi)**
[Redox properties of peptides potentially regulating animal hibernation] Marinov BS, et al. **Biofizika** 1997 Jan–Feb; 42(1):147–53 (Eng. Abstr.) **(Rus)**
[Recombinations of neocortex ultrastructure in hibernating animals during adaptation to hypothermia] Matsionis AE, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):585–9 **(Rus)**
[Serotonin–producing cells in the small intestine of hibernating animals during periods of hypothermia in the middle of winter and before spring awakening] Vinogradova MS, et al. **Biull Eksp Biol Med** 1997 Mar; 123(3):346–8 **(Rus)**
[The coiled bodies and satellite microbodies of the oocyte nuclei in hibernating Rana temporaria frogs contain actin] Tsvetkov AG, et al. **Tsitologiia** 1997;39(1):10–4 (Eng. Abstr.) **(Rus)**
[The effect of short peptides isolated from the brain of a hibernating suslik on the rat EEG and behavior] Ignat'ev DA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov–Dec;46(6):1049–58 (Eng. Abstr.) **(Rus)**

HIBERNATION, ARTIFICIAL see **HYPOTHERMIA, INDUCED**

HIBERNATION, MYOCARDIAL see **MYOCARDIAL STUNNING**

HIBERNOMA see **LIPOMA**

HICCUP

[Diabolic hiccup] Heick A. **Ugeskr Laeger** 1997 Aug 11; 159(33):4986–8 (Eng. Abstr.) **(Dan)**

CHEMICALLY INDUCED

Drug–induced hiccups. Thompson DF, et al. **Ann Pharmacother** 1997 Mar;31(3):367–9 (33 ref.)
[Intractable hiccup in two severely handicapped patients during phenytoin therapy] Nishimura M. **No To Hattatsu** 1996 Sep;28(5):430–3 (Eng. Abstr.) **(Jpn)**

COMPLICATIONS

Chronic hiccups and sleep. Arnulf I, et al. **Sleep** 1996 Apr; 19(3):227–31

DRUG THERAPY

Baclofen for treatment of persistent hiccups in HIV–infected patients [letter] D'Alessandro DJ, et al. **AIDS** 1997 Jul; 11(8):1063–4
Intractable hiccups. Consider nebulized lidocaine [letter] Neeno TA, et al. **Chest** 1996 Oct;110(4):1129–30
Nifedipine for hiccups [letter; comment] Quigley C. **J Pain Symptom Manage** 1997 Jun;13(6):313. Comment on: J Pain Symptom Manage 1996 Jul;12(1):59–61.
Baclofen for chronic hiccups. Johnson BR, et al. **Pediatr Neurol** 1996 Jul;15(1):66–7
[Treatment of "intractable" hiccup with baclofen] Pérez del Molino A, et al. **Rev Clin Esp** 1996 Dec;196(12):831–3 (Eng. Abstr.) **(Spa)**

ETIOLOGY

[Gastric lesion revealed by a persistent hiccup] Hoang C, et al. **Ann Pathol** 1996 Sep;16(4):303–4 (6 ref.) **(Fre)**
[Untreatable hiccup as un unusual sign in a rostral occlusion syndrome of the basilar artery] Revilla B, et al. **Rev Neurol** 1996 Mar;24(127):306–10 (Eng. Abstr.) **(Spa)**

MICROBIOLOGY

An unusual cause of hiccups. Perry S, et al. **J Accid Emerg Med** 1996 Sep;13(5):361–2

PHYSIOPATHOLOGY

Hiccups associated with lateral medullary syndrome. A case report. Nickerson RB, et al. **Am J Phys Med Rehabil** 1997 Mar–Apr;76(2):144–6
Effects of transient intrathoracic pressure changes (hiccups) on systemic arterial pressure. Mathew OP. **J Appl Physiol** 1997 Aug;83(2):371–5
Hiccups: a treatment review. Friedman NL. **Pharmacotherapy** 1996 Nov–Dec;16(6):986–95 (78 ref.)

PREVENTION & CONTROL

Use of cricoid pressure to facilitate gastric insufflation and stop hiccoughs during gastroscopy [letter] Tey HK, et al. **Gastrointest Endosc** 1996 Dec;44(6):760–1

THERAPY

Treatment of refractory hiccups with glossopharyngeal nerve block [letter] Gallacher BP, et al. **Anesth Analg** 1997 Jan; 84(1):229
Hiccups: a treatment review. Friedman NL. **Pharmacotherapy** 1996 Nov–Dec;16(6):986–95 (78 ref.)

HIDRADENITIS

CHEMICALLY INDUCED

Neutrophilic hidradenitis induced by chemotherapy involves eccrine and apocrine glands. Brehler R, et al. **Am J Dermatopathol** 1997 Feb;19(1):73–8

DIAGNOSIS

Neutrophilic eccrine hidradenitis in an HIV–infected patient. Sevila A, et al. **Int J Dermatol** 1996 Sep;35(9):651–2 (4 ref.)

DRUG THERAPY

Dapsone in prevention of recurrent neutrophilic eccrine hidradenitis. Shear NH, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 2):819–22 (28 ref.)

PATHOLOGY

Idiopathic palmoplantar hidradenitis. Buezo GF, et al. **Am J Dermatopathol** 1996 Aug;18(4):413–6
Sjögren's syndrome plasma cell panniculitis and hidradenitis. McGovern TW, et al. **J Cutan Pathol** 1996 Apr;23(2):170–4

SURGERY

A new approach in axillary hidradenitis treatment: the scapular island flap. Amarante J, et al. **Aesthetic Plast Surg** 1996 Sep–Oct;20(5):443–6

VIROLOGY

Herpetic syringitis associated with eccrine squamous syringometaplasia in HIV–positive patients. Muñoz E, et al. **J Cutan Pathol** 1997 Aug;24(7):425–8

HIDRADENITIS SUPPURATIVA

BLOOD

Endocrine factors in pre– and postmenopausal women with hidradenitis suppurativa [letter; comment] Farrell AM, et al. **Br J Dermatol** 1997 May;136(5):802–3. Comment on: Br J Dermatol 1996 Jun;134(6):1057–9.

COMPLICATIONS

A case–control study of hidradenitis suppurativa in an STD population. Jemec GB, et al. **Acta Derm Venereol** 1996 Nov; 76(6):482–3
Subcorneal pustular dermatosis (Sneddon–Wilkinson syndrome): another cutaneous manifestation of SAPHO syndrome? [letter] Scarpa R, et al. **Br J Rheumatol** 1997 May;36(5):602–3
Probable association between hidradenitis suppurativa and Crohn's disease: significance of epithelioid granuloma. Roy MK, et al. **Br J Surg** 1997 Mar;84(3):375–6
[Reactive arthritis and hidradenitis suppurativa (letter)] Alba D, et al. **An Med Interna** 1995 Sep;12(9):464–5 **(Spa)**

DRUG THERAPY

Pyoderma gangrenosum associated with cystic acne and hidradenitis suppurativa controlled by adding minocycline and sulfasalazine to the treatment regimen. Shenefelt PD. **Cutis** 1996 May;57(5):315–9

ETIOLOGY

Pathogenesis, clinical features and management of hidradenitis suppurativa [see comments] Parks RW, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):83–9 (63 ref.). Comment in: Ann R Coll Surg Engl 1997 Jul;79(4):309. Comment in: Ann R Coll Surg Engl 1997 Jul;79(4):309–10.
Dowling–Degos disease associated with hidradenitis suppurativa. Bedlow AJ, et al. **Clin Exp Dermatol** 1996 Jul;21(4):305–6
Acne inversa (pyodermia fistulans sinifica) and smoking [letter; comment] Bassukas ID, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):1029. Comment on: J Am Acad Dermatol 1996 May;34(5 Pt 1):717–32; quiz 733–4.

MICROBIOLOGY

The bacteriology of hidradenitis suppurativa. Jemec GB, et al. **Dermatology** 1996;193(3):203–6

PATHOLOGY

The homogeneity of hidradenitis suppurativa lesions. A histological study of intra–individual variation. Jemec GB, et al. **APMIS** 1997 May;105(5):378–83
Hidradenitis suppurativa or acne inversa. A clinicopathological study of early lesions. Boer J, et al. **Br J Dermatol** 1996 Nov;135(5):721–5
Advanced hidradenitis suppurativa presenting with bilateral vulvar masses. Goldberg JM, et al. **Gynecol Oncol** 1996 Mar;60(3):494–7
Squamous–cell cancer in Verneuil's disease (hidradenitis suppurativa) [letter] Malaguarnera M, et al. **Lancet** 1996 Nov 23;348(9039):1449

PHYSIOPATHOLOGY

Sebum excretion in hidradenitis suppurativa. Jemec GB, et al. **Dermatology** 1997;194(4):325–8

PSYCHOLOGY

Hidradenitis suppurativa––characteristics and consequences. Jemec GB, et al. **Clin Exp Dermatol** 1996 Nov;21(6):419–23

SURGERY

Pathogenesis, clinical features and management of hidradenitis suppurativa [letter; comment] Hughes LE. **Ann R Coll Surg Engl** 1997 Jul;79(4):309–10. Comment on: Ann R Coll Surg Engl 1997 Mar;79(2):83–9.
Pathogenesis, clinical features and management of hidradenitis suppurativa [see comments] Parks RW, et al. **Ann R Coll Surg Engl** 1997 Mar;79(2):83–9 (63 ref.). Comment in: Ann R Coll Surg Engl 1997 Jul;79(4):309. Comment in: Ann R Coll Surg Engl 1997 Jul;79(4):309–10.
Pathogenesis, clinical features and management of hidradenitis suppurativa [letter] Rorison P, et al. **Ann R Coll Surg Engl** 1997 Sep;79(5):385
[Acne inversa] Eckert P. **Zentralbl Chir** 1996;121 Suppl:65–7 **(Ger)**

THERAPY

Pathogenesis, clinical features and management of hidradenitis suppurativa [letter; comment] Rayner CR. **Ann R Coll Surg Engl** 1997 Jul;79(4):309. Comment on: Ann R Coll Surg Engl 1997 Mar;79(2):83–9.

HIDRADENOMA see **ADENOMA, SWEAT GLAND**

HIDROCYSTOMA

COMPLICATIONS

Multiple eccrine hidrocystomas associated with Graves' disease. Nagai Y, et al. **J Dermatol** 1996 Sep;23(9):652–4 (9 ref.)

DIAGNOSIS

Apocrine cystadenoma, apocrine hidrocystoma, and eccrine hidrocystoma: three distinct tumors defined by expression of keratins and human milk fat globulin 1. de Viragh PA, et al. **J Cutan Pathol** 1997 Apr;24(4):249–55

PATHOLOGY

The hybrid epidermoid and apocrine cyst. A combination of apocrine hidrocystoma and epidermal inclusion cyst. Andersen WK, et al. **Am J Dermatopathol** 1996 Aug; 18(4):364–6
Apocrine hidrocystoma: report of a case. Armstrong AP, et al. **Br J Oral Maxillofac Surg** 1996 Aug;34(4):335–7
Multiple Moll's gland cysts (apocrine hidrocystomas) of the eyelids [letter] Combemale P, et al. **Dermatology** 1997; 194(2):195–6
Multiple hidrocystomas. de Eusebio E, et al. **Dermatology** 1996;193(2):152–3
[Multiple eccrine hidrocystomas in Parkinson disease] Schröder K, et al. **Hautarzt** 1997 Apr;48(4):270–3 (Eng. Abstr.) **(Ger)**

SURGERY

[Argon laser therapy of multiple eccrine cysts of sweat gland efferent ducts (eccrine hidrocystomas)] Baum U, et al. **Klin Monatsbl Augenheilkd** 1996 Oct;209(4):249–51 (Eng. Abstr.) **(Ger)**

HIDROSADENITIS see **HIDRADENITIS**

HIDROTIC ECTODERMAL DYSPLASIA see **ECTODERMAL DYSPLASIA**

HIERARCHY, SOCIAL

Occupational prestige for registered nurses in the Asia–Pacific region: status consensus. Johnson M, et al. **Int J Nurs Stud** 1997 Jun;34(3):201–7
A thesis for our times [editorial] Roy DJ. **J Palliat Care** 1996 Spring;12(1):3–4
Big fish in small ponds: a social hierarchy analysis of intergroup bias. Seta JJ, et al. **J Pers Soc Psychol** 1996 Dec;71(6):1210–21
What do we know about peer review? [editorial] Wessely S. **Psychol Med** 1996 Sep;26(5):883–6
Psychosocial factors, sex differences, and atherosclerosis: lessons from animal models. Kaplan JR, et al. **Psychosom Med** 1996 Nov–Dec;58(6):598–611 (126 ref.)

[Physician team or medical director system—hierarchy or chaos?] Vilmar K. **Chirurg** 1997 Jun;68(6):Suppl 155–8 **(Ger)**

[The availability of personality traits in the hierarchical structure: an exploration of the "basic level"] Yamaguchi A, et al. **Shinrigaku Kenkyu** 1996 Aug;67(3):195–203 (Eng. Abstr.) **(Jpn)**

[Conflicts and support strategies in clashes in 2 groups of crab-eating monkeys formed from individuals with differing social status by birth] Butovskaia ML, et al. **Izv Akad Nauk Ser Biol** 1996 Nov-Dec;(6):736–42 (Eng. Abstr.) **(Rus)**

HIGH CARDIAC OUTPUT see **CARDIAC OUTPUT, HIGH**

HIGH CHAIRS see **INFANT EQUIPMENT**

HIGH-COST TECHNOLOGY see **TECHNOLOGY, HIGH-COST**

HIGH-DENSITY LIPOPROTEINS see **LIPOPROTEINS, HDL**

HIGH-ENERGY SHOCK WAVES

see related
LITHOTRIPSY

Shock wave permeabilization as a new gene transfer method. Lauer U, et al. **Gene Ther** 1997 Jul;4(7):710–5

Transient oscillation of cavitation bubbles near stone surface during electrohydraulic lithotripsy. Zhong P, et al. **J Endourol** 1997 Feb;11(1):55–61

Cytotoxic effects of high energy shock waves on cancer cells linked to metallic beads vehicled by monoclonal antibodies. Ferlazzo G, et al. **J Urol** 1997 Jan;157(1):366–70

Time-resolved observations of shock waves and cavitation bubbles generated by femtosecond laser pulses in corneal tissue and water. Juhasz T, et al. **Lasers Surg Med** 1996; 19(1):23–31

Advances in lithotripsy and stone disease treatment [published errata appear in Radiol Technol 1996 Sep-Oct;68(1):17 and 1997 Mar-Apr;68(4):285] Newman J. **Radiol Technol** 1996 Jul-Aug;67(6):479–96; quiz 497–500 (44 ref.)

Electromagnetic hydrophone for pressure determination of shock wave pulses. Etienne J, et al. **Ultrasound Med Biol** 1997;23(5):747–54

The role of cavitation in the induction of cellular DNA damage by ultrasound and lithotripter shock waves in vitro. Miller DL, et al. **Ultrasound Med Biol** 1996;22(5):681–7

Disturbance of cellular calcium homeostasis by in vitro application of shock waves. Suhr D, et al. **Ultrasound Med Biol** 1996;22(5):671–9

Preservation of shock-wave-induced renal histologic changes by dermatan sulfate. Sarica K, et al. **Urology** 1997 Jan;49(1):145–50

[Extracorporeal shock-wave therapy. Experimental basis, clinical application] Rompe JD, et al. **Orthopade** 1997 Mar; 26(3):215–28 (Eng. Abstr.) **(Ger)**

[Are there magnetic resonance tomographic changes following shock-wave treatment of tendinitis calcarea?] Maier M, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar-Apr; 135(2):Oa20–1 **(Ger)**

ADVERSE EFFECTS

Side effects of high-energy shockwaves in the human kidney: first experience with model comparing two shockwave sources. Roessler W, et al. **J Endourol** 1996 Dec; 10(6):507–11

Stone recurrence after shockwave lithotripsy: possible enhanced crystal deposition in traumatized tissue in rabbit model. Sarica K, et al. **J Endourol** 1996 Dec;10(6):513–7

Acute bioeffects of electromagnetic lithotripsy. Atahan O, et al. **Scand J Urol Nephrol** 1996 Aug;30(4):269–72

The influence of high-energy shock waves on the development of metastases. Oosterhof GO, et al. **Ultrasound Med Biol** 1996;22(3):339–44

THERAPEUTIC USE

The combined effects of high-energy shock waves and ionising radiation on a human bladder cancer cell line. Fickweiler S, et al. **Ultrasound Med Biol** 1996; 22(8):1097–102

[High-energy extracorporeal shock-wave therapy (ESWT) in the treatment of pseudarthrosis] Vogel J, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar-Apr;135(2):145–9 (42 ref.) (Eng. Abstr.) **(Ger)**

HIGH-FREQUENCY JET VENTILATION

Low-frequency and high-frequency jet ventilation technical basics and special considerations for clinical application in various areas. Aloy A, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:147–9

High frequency jet ventilation for severe pulmonary hemorrhage during aortic dissection operation--a case report. Cheng KS, et al. **Acta Anaesthesiol Sin** 1997 Mar; 35(1):51–4

Midazolam-flumazenil topical anaesthesia for microlaryngoscopy with jet ventilation. Rushatamukayanunt W, et al. **Anaesth Intensive Care** 1997 Aug;25(4):358–64

Capnography during jet ventilation for laryngoscopy. Gottschalk A, et al. **Anesth Analg** 1997 Jul;85(1):155–9

Unilateral high frequency jet ventilation during one-lung ventilation. Dikmen Y, et al. **Eur J Anaesthesiol** 1997 May; 14(3):239–43

Total intravenous anesthesia and high-frequency jet ventilation during transthoracic endoscopic sympathectomy for treatment of essential hyperhidrosis palmaris: a new approach. D'Haese J, et al. **J Cardiothorac Vasc Anesth** 1996 Oct;10(6):767–71

Laryngotracheal anesthesia device as jet ventilation cannula for removal of fragmented intratracheal T-tube. Brown MM, et al. **J Clin Anesth** 1997 May;9(3):239–42

Rigid bronchoscopy and jet ventilation in an extremely low birthweight infant. Fan PC, et al. **J Formos Med Assoc** 1996 Dec;95(12):937–9

Controlled prospective randomized comparison of high-frequency jet ventilation and conventional ventilation in neonates with respiratory failure and persistent pulmonary hypertension. Engle WA, et al. **J Perinatol** 1997 Jan-Feb;17(1):3–9

Multicenter controlled clinical trial of high-frequency jet ventilation in preterm infants with uncomplicated respiratory distress syndrome. Keszler M, et al. **Pediatrics** 1997 Oct;100(4):593–9

[Ventilation effects of added jet air flows in different directions during expiratory phase on dogs with steam inhalation injury] Zhou S, et al. **Chung Hua Cheng Hsing Shao Shang Wai Ko Tsa Chih** 1996 May;12(3):212–5 (Eng. Abstr.) **(Chi)**

[High frequency jet ventilation during tracheal resection in children and infants] Männle C, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 Jan; 32(1):21–6 (Eng. Abstr.) **(Ger)**

[Anesthesia and high frequency jet ventilation (HFJV) for surgical interventions on the larynx and trachea] Biro P, et al. **HNO** 1997 Jan;45(1):43–52 **(Ger)**

[Gas dynamics characteristics of current methods of jet ventilation of the lungs] Khlystov VN, et al. **Anesteziol Reanimatol** 1997 Mar-Apr;(2):14–5 (Eng. Abstr.) **(Rus)**

[High-frequency jet ventilation of the lungs in intensive care of the newborn born with asphyxia] Kuz'min VV, et al. **Anesteziol Reanimatol** 1996 Nov-Dec;(6):24–7 **(Rus)**

[Comparative study of high-frequency jet ventilation in 4 types of patients undergoing laryngeal microsurgery (see comments)] Ayuso MA, et al. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):7–12 (Eng. Abstr.). Comment in: Rev Esp Anestesiol Reanim 1997 Jan;44(1):1–2. **(Spa)**

[A comment concerning high-frequency jet ventilation in laryngeal microsurgery] Ayuso MA, et al. **Rev Esp Anestesiol Reanim** 1997 Apr;44(4):166–7 **(Spa)**

[High-frequency jet ventilation. An exciting technique now firmly established (editorial; comment)] Belda FJ. **Rev Esp Anestesiol Reanim** 1997 Jan;44(1):1–2. Comment on: Rev Esp Anestesiol Reanim 1997 Jan;44(1):7–12. **(Spa)**

ADVERSE EFFECTS

Aspiration in transtracheal jet ventilation. Jawan B, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):684–6

Effects of hypocarbia on the development of cystic periventricular leukomalacia in premature infants treated with high-frequency jet ventilation. Wiswell TE, et al. **Pediatrics** 1996 Nov;98(5):918–24

INSTRUMENTATION

[O2 administration and O2 monitoring in jet ventilation] Klein U, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Aug; 31(6):385–9 **(Ger)**

[High-frequency jet ventilation with the HFV 970 prototype in laryngeal microsurgery: comparison of 2 injection systems] Anadón MP, et al. **Rev Esp Anestesiol Reanim** 1996 Dec;43(10):345–8 (Eng. Abstr.) **(Spa)**

METHODS

Application of SHFJV for surgical procedures. Donner A, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:153–7

A Cook airway exchange catheter in the management of intraoperative tracheal injury [letter] Montgomery PQ, et al. **Anaesth Intensive Care** 1996 Oct;24(5):617

Prolonged use of a cook airway exchange catheter obviated the need for postoperative tracheostomy in an adult patient. Hartmannsgruber MW, et al. **J Clin Anesth** 1997 Sep; 9(6):496–8

Percutaneous transtracheal jet ventilation [letter; comment] Smith RB, et al. **J Clin Anesth** 1996 Dec;8(8):689–90. Comment on: J Clin Anesth 1996 Feb;8(1):58–62.

Tubeless laryngotracheal surgery in infants and children via jet ventilation laryngoscope. Grasl MC, et al. **Laryngoscope** 1997 Feb;107(2):277–81

Oxygen enrichment of entrained room air during Venturi jet ventilation of children undergoing bronchoscopy. Baraka A. **Paediatr Anaesth** 1996;6(5):383–5

[Experimental studies of high frequency jet ventilation improved by enhancing expiratory turbulence] Qi G, et al. **Chung Hua I Hsueh Tsa Chih** 1996 Nov;76(11):818–21 (Eng. Abstr.) **(Chi)**

HIGH-FREQUENCY OSCILLATION see **HIGH-FREQUENCY VENTILATION**

HIGH-FREQUENCY POSITIVE PRESSURE VENTILATION see **HIGH-FREQUENCY VENTILATION**

HIGH-FREQUENCY VENTILATION

High-frequency oscillatory ventilation combined with intermittent mandatory ventilation in critically ill neonates and infants. Murthy BV, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):679–83

Intraoperative application of high frequency ventilation in thoracic surgery. Ratzenhofer-Komenda B, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:149–53

Intraalveolar expression of tumor necrosis factor-alpha gene during conventional and high-frequency ventilation. Takata M, et al. **Am J Respir Crit Care Med** 1997 Jul; 156(1):272–9

Inflammatory chemical mediators during conventional mechanical ventilation and during high frequency oscillatory ventilation [letter; comment] Teramoto S, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):2114–5. Comment on: Am J Respir Crit Care Med 1994 Dec;150(6 Pt 1):1550–4.

High frequency oscillatory ventilation in infants with increased intra-abdominal pressure. Fok TF, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar;76(2):F123–5

Rescue high frequency oscillatory ventilation for preterm infants: neurodevelopmental outcome and its prediction. Cheung PY, et al. **Biol Neonate** 1997;71(5):282–91

Relief of protracted hypercarbia by high-frequency oscillatory ventilator in a young infant with bronchopulmonary dysplasia. Kuo CY. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Jan-Feb;38(1):57–60

High-frequency oscillatory ventilation with partial liquid ventilation in a model of acute respiratory failure. Baden HP, et al. **Crit Care Med** 1997 Feb;25(2):299–302

High-frequency oscillatory ventilation for adult respiratory distress syndrome--a pilot study [see comments] Fort P, et al. **Crit Care Med** 1997 Jun;25(6):937–47. Comment in: Crit Care Med 1997 Jun;25(6):906–8.

High-frequency oscillatory ventilation for adult respiratory distress syndrome: let's get it right this time! [editorial; comment] Froese AB. **Crit Care Med** 1997 Jun;25(6):906–8 . Comment on: Crit Care Med 1997 Jun;25(6):937–47.

Successful treatment of severe dysrhythmias in infants with respiratory syncytial virus infections: two cases and a literature review. Thomas JA, et al. **Crit Care Med** 1997 May;25(5):880–6 (44 ref.)

Ventilation by external high-frequency oscillations improves cardiac function after coronary artery bypass grafting. Sidenö B, et al. **Eur J Cardiothorac Surg** 1997 Feb; 11(2):248–57

Response to high frequency jet ventilation may predict the need for extracorporeal membrane oxygenation. Stewart DL, et al. **Eur Respir J** 1996 Jun;9(6):1257–60

Assessment of high-frequency neonatal ventilator performances. Jouvet P, et al. **Intensive Care Med** 1997 Feb;23(2):208–13

Effects of high-frequency oscillatory ventilation on circulation in neonates with pulmonary interstitial emphysema or RDS. Nelle M, et al. **Intensive Care Med** 1997 Jun;23(6):671–6

Inhaled nitric oxide for avoidance of extracorporeal membrane oxygenation in the treatment of severe persistent pulmonary hypertension of the newborn [letter; comment] Pfenninger J, et al. **Intensive Care Med** 1997 Feb;23(2):233 . Comment on: Intensive Care Med 1996 Jan;22(1):71–6.

Permissive hypercapnia with high-frequency oscillatory ventilation and one-lung isolation for intraoperative management of lung resection in a patient with multiple bronchopleural fistulae. Tietjen CS, et al. **J Clin Anesth** 1997 Feb;9(1):69–73

Randomized, multicenter trial of inhaled nitric oxide and high-frequency oscillatory ventilation in severe, persistent pulmonary hypertension of the newborn. Kinsella JP, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):55–62

High-frequency pressure-control ventilation with high positive end-expiratory pressure in children with acute respiratory distress syndrome. Paulson TE, et al. **J Pediatr** 1996 Oct;129(4):566–73

Congenital diaphragmatic hernia--a tale of two cities: the Toronto experience. Azarow K, et al. **J Pediatr Surg** 1997 Mar;32(3):395–400

High frequency oscillatory ventilation in children and infants. Greenough A. **Monaldi Arch Chest Dis** 1997 Jun; 52(3):268–71 (30 ref.)

High frequency oscillatory ventilation: theory and practice in paediatric patients. Arnold JH. **Paediatr Anaesth** 1996; 6(6):437–41 (39 ref.)

The Provo multicenter early high-frequency oscillatory ventilation trial: improved pulmonary and clinical outcome in respiratory distress syndrome [see comments] Gerstmann DR, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1044–57. Comment in: Pediatrics 1996 Dec;98(6 Pt 1):1196–7.

J'accuse!-M. LeComte de LaPlace a Prohibé le Recrutement

des Alvéoles du Poumon [Can high-frequency ventilation conscript alveolar recruits and encourage re-enlistment?] [comment] Nelson NM. **Pediatrics** 1996 Dec;98(6 Pt 1):1196-7 (15 ref.). Comment on: Pediatrics 1996 Dec;98(6 Pt 1):1044-57.

High frequency oscillatory ventilation in newborns with idiopathic persistent pulmonary hypertension. Ng PC, et al. **Singapore Med J** 1995 Oct;36(5):517-20

[High frequency oscillatory ventilation in pediatrics] Laubscher B. **Rev Med Suisse Romande** 1996 Dec; 116(12):975-8 **(Fre)**

[Physical features of high-frequency artificial ventilation of lungs] Gal'perin IuS, et al. **Anesteziol Reanimatol** 1997 May-Jun;(3):72-7 (Eng. Abstr.) **(Rus)**

[Use of transcatheter high-frequency artificial ventilation of the lungs in surgical treatment of obturating papillomatosis of the larynx and trachea in children] Kolomenskiĭ EE, et al. **Vestn Otorinolaringol** 1996 Jul-Aug;(4):34-7 (Eng. Abstr.) **(Rus)**

ADVERSE EFFECTS

Systemic air embolism in an extremely low birthweight infant treated with high-frequency oscillatory ventilation. Maruyama K, et al. **Acta Paediatr Jpn** 1996 Dec;38(6):681-3

Intraoperative respiratory complications. McEwen DR. **AORN J** 1997 Feb;65(2):438-40, 442

Severe paroxysmal sinus bradycardia associated with high-frequency oscillatory ventilation. Mellema JD, et al. **Chest** 1997 Jul;112(1):181-5

Intraventricular hemorrhage and high-frequency ventilation: a meta-analysis of prospective clinical trials. Clark RH, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1058-61

High-frequency jet ventilation in the early management of respiratory distress syndrome is associated with a greater risk for adverse outcomes. Wiswell TE, et al. **Pediatrics** 1996 Dec;98(6 Pt 1):1035-43

Pulmonary interstitial emphysema during piston-type high-frequency oscillatory ventilation. Sakai T, et al. **Tohoku J Exp Med** 1996 Dec;180(4):327-35

INSTRUMENTATION

Use of a magnified cardiac airflow oscillation to classify neonatal apnea. Lemke RP, et al. **Am J Respir Crit Care Med** 1996 Nov;154(5):1537-42

High-frequency intratracheal pulmonary ventilation: improved gas exchange at lower airway pressures. Schnitzer JJ, et al. **J Pediatr Surg** 1997 Feb;32(2):203-6

METHODS

High frequency ventilation techniques in ARDS. Lanzenberger-Schragl E, et al. **Acta Anaesthesiol Scand Suppl** 1996;109:157-61

Determination of gas-trapping during high frequency oscillatory ventilation. Alexander J, et al. **Acta Paediatr** 1997 Mar;86(3):268-73

Respiratory syncytial virus pneumonia ventilated with high-frequency oscillatory ventilation. Medbø S, et al. **Acta Paediatr** 1997 Jul;86(7):766-8

High-frequency oscillatory ventilation--a new management for respiratory distress syndrome and intractable respiratory failure. Jeng MJ, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Mar-Apr;38(2):87-97 (70 ref.)

High-frequency oscillatory ventilation for infants and children with adult respiratory distress syndrome. Tang JR, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1997 Mar-Apr;38(2):137-44

Partial liquid ventilation: a comparison using conventional and high-frequency techniques in an animal model of acute respiratory failure [see comments] Smith KM, et al. **Crit Care Med** 1997 Jul;25(7):1179-86. Comment in: Crit Care Med 1997 Jul;25(7):1104-5.

You take the high mode and I'll take the low mode...for now [editorial; comment] Zimmerman JJ, et al. **Crit Care Med** 1997 Jul;25(7):1104-5. Comment on: Crit Care Med 1997 Jul;25(7):1179-86.

Residual effect of nCPAP applied for part of the night in patients with obstructive sleep apnoea [see comments] Hers V, et al. **Eur Respir J** 1997 May;10(5):973-6. Comment in: Eur Respir J 1997 May;10(5):969-70.

Persistent pulmonary consolidation treated with intrapulmonary percussive ventilation: a preliminary report. Birnkrant DJ, et al. **Pediatr Pulmonol** 1996 Apr;21(4):246-9

Comparison of different modes of high-frequency ventilation in surfactant-deficient rabbits. Simma B, et al. **Pediatr Pulmonol** 1996 Oct;22(4):263-70

PSYCHOLOGY

Compliance with nasal CPAP therapy for obstructive sleep apnoea: how much is enough? [editorial; comment] McNicholas WT. **Eur Respir J** 1997 May;10(5):969-70. Comment on: Eur Respir J 1997 May;10(5):973-6.

STANDARDS

High frequency oscillation and exogenous surfactant in the treatment of neonatal respiratory distress syndrome. Claris O, et al. **Acta Paediatr** 1997 Apr;86(4):339-41 (18 ref.)

High frequency ventilation. Ramsden CA, et al. **J Paediatr Child Health** 1997 Apr;33(2):85-7 (23 ref.)

HIGH GRAVITY see **HYPERGRAVITY**

HIGH MOBILITY GROUP PROTEINS

[HMG box proteins: general architectural elements in the assembly of active transcription complex] Yoshida M. **Seikagaku** 1996 Dec;68(12):1829-34 (14 ref.) **(Jpn)**

ANALYSIS

H1 and HMG17 extracted from calf thymus nuclei are efficient DNA carriers in gene transfer. Zaitsev SV, et al. **Gene Ther** 1997 Jun;4(6):586-92

BIOSYNTHESIS

Expression of HMGI-C and HMGI(Y) in ordinary lipoma and atypical lipomatous tumors: immunohistochemical reactivity correlates with karyotypic alterations. Tallini G, et al. **Am J Pathol** 1997 Jul;151(1):37-43

HMGI(Y) expression in human uterine leiomyomata. Involvement of another high-mobility group architectural factor in a benign neoplasm [see comments] Williams AJ, et al. **Am J Pathol** 1997 Mar;150(3):911-8. Comment in: Am J Pathol 1997 Mar;150(3):901-10.

HMGI(Y) activation by chromosome 6p21 rearrangements in multilineage mesenchymal cells from pulmonary hamartoma [comment] Xiao S, et al. **Am J Pathol** 1997 Mar;150(3):901-10. Comment on: Am J Pathol 1997 Mar;150(3):911-8.

Enhanced coexpression of thioredoxin and high mobility group protein 1 genes in human hepatocellular carcinoma and the possible association with decreased sensitivity to cisplatin. Kawahara N, et al. **Cancer Res** 1996 Dec 1; 56(23):5330-3

Expression of high-mobility group-1 mRNA in human gastrointestinal adenocarcinoma and corresponding non-cancerous mucosa. Xiang YY, et al. **Int J Cancer** 1997 Feb 20;74(1):1-6

Oncogenic raf-1 induces the expression of non-histone chromosomal architectural protein HMGI-C via a p44/p42 mitogen-activated protein kinase-dependent pathway in salivary epithelial cells. Li D, et al. **J Biol Chem** 1997 Oct 3;272(40):25062-70

In vitro assembly of enhancer complexes. Thanos D, et al. **Methods Enzymol** 1996;274:162-73

Expression of HMGI-C, a member of the high mobility group protein family, in a subset of breast cancers: relationship to histologic grade. Rogalla P, et al. **Mol Carcinog** 1997 Jul;19(3):153-6

Chromosomal location and expression of the single-copy gene encoding high-mobility-group protein HMG-I/Y in Arabidopsis thaliana. Gupta R, et al. **Plant Mol Biol** 1997 Jun;34(3):529-36

CHEMISTRY

Structural and functional consequences of mutations within the hydrophobic cores of the HMG1-box domain of the Chironomus high-mobility-group protein 1a. Wiśniewski JR, et al. **Eur J Biochem** 1997 Jan 15;243(1-2):151-9

Structural and functional properties of linker histones and high mobility group proteins in polytene chromosomes. Wiśniewski JR, et al. **Int J Dev Biol** 1996 Feb;40(1):177-87 (83 ref.)

The acidic tail of the high mobility group protein HMG-D modulates the structural selectivity of DNA binding. Payet D, et al. **J Mol Biol** 1997 Feb 14;266(1):66-75

Alleviation of histone H1-mediated transcriptional repression and chromatin compaction by the acidic activation region in chromosomal protein HMG-14. Ding HF, et al. **Mol Cell Biol** 1997 Oct;17(10):5843-55

The solution structure of an HMG-I(Y)-DNA complex defines a new architectural minor groove binding motif. Huth JR, et al. **Nat Struct Biol** 1997 Aug;4(8):657-65

A novel activity of HMG domains: promotion of the triple-stranded complex formation between DNA containing (GGA/TCC)11 and d(GGA)11 oligonucleotides. Suda T, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4733-40

Genomic structure and expression of the murine Hmgi-c gene. Zhou X, et al. **Nucleic Acids Res** 1996 Oct 15; 24(20):4071-7

GENETICS

Mutations in SOX9 cause both autosomal sex reversal and campomelic dysplasia. Foster JW. **Acta Paediatr Jpn** 1996 Aug;38(4):405-11 (26 ref.)

Control of gene expression during lymphoid development: targeted gene disruption provides new clues. Dooijes D, et al. **APMIS** 1997 May;105(5):337-44 (43 ref.)

Molecular cloning and characterization of a cDNA for the highly conserved HMG-like protein (Pf16) gene of Plasmodium falciparum. Nambiar A, et al. **Biochem Biophys Res Commun** 1997 May 8;234(1):101-6

Cloning and characterization of Xenopus laevis xSox7 cDNA. Shiozawa M, et al. **Biochim Biophys Acta** 1996 Nov 11;1309(1-2):73-6

Recombinant HMG1 protein produced in Pichia pastoris: a nonviral gene delivery agent. Mistry AR, et al. **Biotechniques** 1997 Apr;22(4):718-29

A fibroadenoma with a t(4;12) (q27;q15) affecting the HMGI-C gene, a member of the high mobility group protein gene family. Staats B, et al. **Breast Cancer Res Treat** 1996;38(3):299-303

Molecular characterization of a complex chromosomal rearrangement in a pleomorphic salivary gland adenoma involving the 3'-UTR of HMGIC. Geurts JM, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):198-205

HMGIC expressed in a uterine leiomyoma with a deletion of the long arm of chromosome 7 along with a 12q14-15 rearrangement but not in tumors showing del(7) as the sole cytogenetic abnormality. Hennig Y, et al. **Cancer Genet Cytogenet** 1997 Jul 15;96(2):129-33

Amplification of a rearranged form of the high-mobility group protein gene HMGIC in OsA-CI osteosarcoma cells. Kools PF, et al. **Cancer Genet Cytogenet** 1996 Oct 1; 91(1):1-7

Expression of structure-specific recognition protein mRNA in fetal kidney and Fe-nitrilotriacetate-induced renal carcinoma in the rat. Xiang YY, et al. **Cancer Lett** 1996 Sep 10;106(2):271-8

Expression of reciprocal hybrid transcripts of HMGIC and FHIT in a pleomorphic adenoma of the parotid gland. Geurts JM, et al. **Cancer Res** 1997 Jan 1;57(1):13-7

Misexpression of disrupted HMGI architectural factors activates alternative pathways of tumorigenesis. Tkachenko A, et al. **Cancer Res** 1997 Jun 1;57(11):2276-80

HIV-1 cDNA integration: requirement of HMG I(Y) protein for function of preintegration complexes in vitro. Farnet CM, et al. **Cell** 1997 Feb 21;88(4):483-92

Sox genes find their feet. Pevny LH, et al. **Curr Opin Genet Dev** 1997 Jun;7(3):338-44 (70 ref.)

Early steps in mammalian sex determination. Ramkissoon Y, et al. **Curr Opin Genet Dev** 1996 Jun;6(3):316-21 (58 ref.)

SOX20, a new member of the SOX gene family, is located on chromosome 17p13. Meyer J, et al. **Cytogenet Cell Genet** 1996;72(2-3):246-9

Dynamic expression of chicken Sox2 and Sox3 genes in ectoderm induced to form neural tissue. Rex M, et al. **Dev Dyn** 1997 Jul;209(3):323-32

A male-specific role for SOX9 in vertebrate sex determination. Kent J, et al. **Development** 1996 Sep; 122(9):2813-22

The Drosophila fish-hook gene encodes a HMG domain protein essential for segmentation and CNS development. Nambu PA, et al. **Development** 1996 Nov;122(11):3467-75

The Dichaete gene of Drosophila melanogaster encodes a SOX-domain protein required for embryonic segmentation. Russell SR, et al. **Development** 1996 Nov;122(11):3669-76

Efficient cloning of ascomycete mating type genes by PCR amplification of the conserved MAT HMG Box. Arie T, et al. **Fungal Genet Biol** 1996 Feb;21(1):118-30

Cloning and sequencing of the genes encoding the hamster ribosomal transcription factors UBF1 and UBF2. Bolívar J, et al. **Gene** 1996 Oct 17;176(1-2):257-8

The Drosophila DSP1 gene encoding an HMG 1-like protein: genomic organization, evolutionary conservation and expression. Canaple L, et al. **Gene** 1997 Jan 15; 184(2):285-90

Purification and cDNA cloning of maize HMGd reveal a novel plant chromosomal HMG-box protein with sequence similarity to HMGa. Grasser KD, et al. **Gene** 1997 May 6;190(2):303-7

The Xenopus Sox3 gene expressed in oocytes of early stages. Koyano S, et al. **Gene** 1997 Mar 25;188(1):101-7

Hamartoma of the breast with involvement of 6p21 and rearrangement of HMGIY. Dal Cin P, et al. **Genes Chromosomes Cancer** 1997 Sep;20(1):90-2

PAC clone containing the HMGI(Y) gene spans the breakpoint of a 6p21 translocation in a uterine leiomyoma cell line. Kazmierczak B, et al. **Genes Chromosomes Cancer** 1996 Nov;17(3):191-3

Hidden paracentric inversions of chromosome arm 12q affecting the HMGIC gene. Wanschura S, et al. **Genes Chromosomes Cancer** 1997 Apr;18(4):322-3

An HMG I/Y-containing repressor complex and supercoiled DNA topology are critical for long-range enhancer-dependent transcription in vitro. Bagga R, et al. **Genes Dev** 1997 Mar 1;11(5):629-39

Genomic characterization of human HMGIC, a member of the accessory transcription factor family found at translocation breakpoints in lipomas. Ashar HR, et al. **Genomics** 1996 Jan 15;31(2):207-14

The Sry-related gene Sox18 maps to distal mouse chromosome 2. Greenfield A, et al. **Genomics** 1996 Sep 15;36(3):558-9

Fusion transcripts between the HMGIC gene and RTVL-H-related sequences in mesenchymal tumors without cytogenetic aberrations. Kazmierczak B, et al. **Genomics** 1996 Dec 1;38(2):223-6

LPP, the preferred fusion partner gene of HMGIC in lipomas, is a novel member of the LIM protein gene family. Petit MMR, et al. **Genomics** 1996 Aug 15;36(1):118-29

Numerous members of the Sox family of HMG box-containing genes are expressed in developing mouse teeth. Stock DW, et al. **Genomics** 1996 Oct 15;37(2):234-7

Isolation of a novel Sry-related gene that is expressed in high-metastatic K-1735 murine melanoma cells. Tani M, et al. **Genomics** 1997 Jan 1;39(1):30-7

Mapping of the gene encoding the human hepatoma-derived growth factor (HDGF) with homology to the high-mobility group (HMG)-1 protein to Xq25. Wanschura S, et al. **Genomics** 1996 Mar 1;32(2):298-300

Mapping of the human HMG2 gene to 4q31. Wanschura S,

et al. **Genomics** 1996 Jan 15;31(2):264–5
The high mobility group I–C gene (HMGI–C): polymorphism and genetic localization. Ishwad CS, et al. **Hum Genet** 1997 Jan;99(1):103–5
A novel germ line mutation in SOX9 causes familial campomelic dysplasia and sex reversal. Cameron FJ, et al. **Hum Mol Genet** 1996 Oct;5(10):1625–30
Mutational analysis of the SOX9 gene in campomelic dysplasia and autosomal sex reversal: lack of genotype/phenotype correlations. Meyer J, et al. **Hum Mol Genet** 1997 Jan;6(1):91–8
Mutations in SRY and SOX9: testis–determining genes. Cameron FJ, et al. **Hum Mutat** 1997;9(5):388–95
Structural and functional properties of linker histones and high mobility group proteins in polytene chromosomes. Wiśniewski JR, et al. **Int J Dev Biol** 1996 Feb;40(1):177–87 (83 ref.)
Maize chromosomal HMGc. Two closely related structure–specific DNA–binding proteins specify a second type of plant high mobility group box protein. Grasser KD, et al. **J Biol Chem** 1996 Dec 20;271(51):32900–6
Conformational changes of DNA induced by binding of Chironomus high mobility group protein 1a (cHMG1a). Regions flanking an HMG1 box domain do not influence the bend angle of the DNA. Heyduk E, et al. **J Biol Chem** 1997 Aug 8;272(32):19763–70
Characterization of a high mobility group 1/2 homolog in yeast. Lu J, et al. **J Biol Chem** 1996 Dec 27; 271(52):33678–85
High mobility group 1 protein is not stably associated with the chromosomes of somatic cells. Falciola L, et al. **J Cell Biol** 1997 Apr 7;137(1):19–26
AND–1, a natural chimeric DNA–binding protein, combines an HMG–box with regulatory WD–repeats. Köhler A, et al. **J Cell Sci** 1997 May;110 (Pt 9):1051–62
Evidence to exclude SOX9 as a candidate gene for XY sex reversal without skeletal malformation. Kwok C, et al. **J Med Genet** 1996 Sep;33(9):800–1
Molecular basis governing primary sex in mammals. Nagai K. **Jpn J Hum Genet** 1996 Dec;41(4):363–79 (57 ref.)
Rbt (Rabo torcido), a new mouse skeletal mutation involved in anteroposterior patterning of the axial skeleton, maps close to the Ts (tail–short) locus and distal to the Sox9 locus on chromosome 11. Hustert E, et al. **Mamm Genome** 1996 Dec;7(12):881–5
SOX9 is a potent activator of the chondrocyte–specific enhancer of the pro alpha1(II) collagen gene. Lefebvre V, et al. **Mol Cell Biol** 1997 Apr;17(4):2336–46
Rearrangements of the high mobility group protein family genes and the molecular genetic origin of uterine leiomyomas and endometrial polyps. Hennig Y, et al. **Mol Hum Reprod** 1996 Apr;2(4):277–83
SOX genes: architects of development. Prior HM, et al. **Mol Med** 1996 Jul;2(4):405–12 (57 ref.)
Two uses for old SOX [news; comment] Graves JA. **Nat Genet** 1997 Jun;16(2):114–5. Comment on: Nat Genet 1997 Jun;16(2):174–8.
Neither HMG–14a nor HMG–17 gene function is required for growth of chicken DT40 cells or maintenance of DNaseI–hypersensitive sites. Li Y, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):283–8
HMGIC, the gene for an architectural transcription factor, is amplified and rearranged in a subset of human sarcomas. Berner JM, et al. **Oncogene** 1997 Jun 19;14(24):2935–41
Chromosomal location and expression of the single–copy gene encoding high–mobility–group protein HMG–I/Y in Arabidopsis thaliana. Gupta R, et al. **Plant Mol Biol** 1997 Jun;34(3):529–36
Two genes for the high mobility group protein HMG–Y are present in the genome of Canavalia gladiata D.C. Yamamoto S, et al. **Plant Mol Biol** 1997 Feb;33(3):537–44
Human papillomavirus type 16 E6 protein up–regulates the expression of the high mobility group protein HMG–I(Y) gene in mouse 10T1/2 cells. Kinoshita T, et al. **Virus Res** 1996 Jun;42(1–2):119–25
SHM1: a multicopy suppressor of a temperature–sensitive null mutation in the HMG1–like abf2 gene. Kao LR, et al. **Yeast** 1996 Sep 30;12(12):1239–50

IMMUNOLOGY

Primary pulmonary hypertension: immunogenetic response to high–mobility group (HMG) proteins and histone. Morse JH, et al. **Clin Exp Immunol** 1996 Nov;106(2):389–95
Novel autoantigens of perinuclear anti–neutrophil cytoplasmic antibodies (P–ANCA) in ulcerative colitis: non–histone chromosomal proteins, HMG1 and HMG2. Sobajima J, et al. **Clin Exp Immunol** 1997 Jan;107(1):135–40

ISOLATION & PURIFICATION

Purification and cDNA cloning of maize HMGd reveal a novel plant chromosomal HMG–box protein with sequence similarity to HMGa. Grasser KD, et al. **Gene** 1997 May 6;190(2):303–7
Characterization of a high mobility group 1/2 homolog in yeast. Lu J, et al. **J Biol Chem** 1996 Dec 27; 271(52):33678–85

METABOLISM

DNA sequence context and protein composition modulate HMG–domain protein recognition of cisplatin–modified DNA. Dunham SU, et al. **Biochemistry** 1997 Sep 23; 36(38):11428–36
Nuclear accumulation of HMG2 protein is mediated by basic regions interspaced with a long DNA–binding sequence, and retention within the nucleus requires the acidic carboxyl terminus. Shirakawa H, et al. **Biochemistry** 1997 May 20;36(20):5992–9
Misexpression of disrupted HMGI architectural factors activates alternative pathways of tumorigenesis. Tkachenko A, et al. **Cancer Res** 1997 Jun 1;57(11):2276–80
High mobility group proteins 1 and 2 recognize chromium–damaged DNA. Wang JF, et al. **Carcinogenesis** 1997 Feb;18(2):371–5
High mobility group proteins cHMG1a, cHMG1b, and cHMGI are distinctly distributed in chromosomes and differentially expressed during ecdysone dependent cell differentiation. Ghidelli S, et al. **Chromosoma** 1997 Apr; 105(6):369–79
SOX9 binds DNA, activates transcription, and coexpresses with type II collagen during chondrogenesis in the mouse. Ng LJ, et al. **Dev Biol** 1997 Mar 1;183(1):108–21
The HMG–box mitochondrial transcription factor xl–mtTFA binds DNA as a tetramer to activate bidirectional transcription. Antoshechkin I, et al. **EMBO J** 1997 Jun 2;16(11):3198–206
An IL–2 response element in the human IL–2 receptor alpha chain promoter is a composite element that binds Stat5, Elf–1, HMG–I(Y) and a GATA family protein. John S, et al. **EMBO J** 1996 Oct 15;15(20):5627–35
Differential association of HMG1 and linker histones B4 and H1 with dinucleosomal DNA: structural transitions and transcriptional repression. Ura K, et al. **EMBO J** 1996 Sep 16;15(18):4959–69
Stimulation of V(D)J cleavage by high mobility group proteins. van Gent DC, et al. **EMBO J** 1997 May 15; 16(10):2665–70
HMG1 interacts with HOX proteins and enhances their DNA binding and transcriptional activation. Zappavigna V, et al. **EMBO J** 1996 Sep 16;15(18):4981–91
Hepatic nuclear factor 3 and high mobility group I/Y proteins bind the insulin response element of the insulin–like growth factor–binding protein–1 promoter. Allander SV, et al. **Endocrinology** 1997 Oct;138(10):4291–300
Secretion and binding of HMG1 protein to the external surface of the membrane are required for murine erythroleukemia cell differentiation. Passalacqua M, et al. **FEBS Lett** 1997 Jan 6;400(3):275–9
The cardiac–muscle specific enhancer–promoter of slow/cardiac troponin C binds HMG–2. Montgomery MO, et al. **Gene** 1997 Mar 18;187(2):159–64
Yeast HMG proteins NHP6A/B potentiate promoter–specific transcriptional activation in vivo and assembly of preinitiation complexes in vitro. Paull TT, et al. **Genes Dev** 1996 Nov 1;10(21):2769–81
HBP1: a HMG box transcriptional repressor that is targeted by the retinoblastoma family. Tevosian SG, et al. **Genes Dev** 1997 Feb 1;11(3):383–96
The far upstream element–binding proteins comprise an ancient family of single–strand DNA–binding transactivators. Davis–Smyth T, et al. **J Biol Chem** 1996 Dec 6;271(49):31679–87
Binding of A/T–rich DNA by three high mobility group–like domains in c–Abl tyrosine kinase. Miao YJ, et al. **J Biol Chem** 1996 Sep 13;271(37):22823–30
HMG–I(Y) phosphorylation status as a nuclear target regulated through insulin receptor substrate–1 and the I4R motif of the interleukin–4 receptor. Wang D, et al. **J Biol Chem** 1997 Oct 3;272(40):25083–90
HMG box proteins interact with multiple tandemly repeated (GCC)n (GGC)m DNA sequences. Zhao Y, et al. **J Biomol Struct Dyn** 1996 Oct;14(2):235–8
High mobility group 1 protein is not stably associated with the chromosomes of somatic cells. Falciola L, et al. **J Cell Biol** 1997 Apr 7;137(1):19–26
Suppression of high mobility group protein T160 expression impairs mouse cytomegalovirus replication. Gariglio M, et al. **J Gen Virol** 1997 Mar;78 (Pt 3):665–70
HMG box–activating factors 1 and 2, two HMG box transcription factors that bind the human Ig heavy chain enhancer. Stevens S, et al. **J Immunol** 1996 Oct 15; 157(8):3491–8
The acidic tail of the high mobility group protein HMG–D modulates the structural selectivity of DNA binding. Payet D, et al. **J Mol Biol** 1997 Feb 14;266(1):66–75
Involvement of a high–mobility–group protein in the transcriptional activity of herpes simplex virus latency–active promoter 2. French SW, et al. **Mol Cell Biol** 1996 Oct;16(10):5393–9
The Saccharomyces cerevisiae DNA polymerase alpha catalytic subunit interacts with Cdc68/Spt16 and with Pob3, a protein similar to an HMG1–like protein. Wittmeyer J, et al. **Mol Cell Biol** 1997 Jul;17(7):4178–90
Intra– and intermolecular cooperative binding of high–mobility–group protein I(Y) to the beta–interferon promoter. Yie J, et al. **Mol Cell Biol** 1997 Jul;17(7):3649–62
High–mobility group (HMG) protein HMG–1 and TATA–binding protein–associated factor TAF(II)30 affect estrogen receptor–mediated transcriptional activation. Verrier CS, et al. **Mol Endocrinol** 1997 Jul;11(8):1009–19
The conserved lymphokine element–0 in the IL5 promoter binds to a high mobility group–1 protein. Marrugo J, et al. **Mol Immunol** 1996 Oct;33(14):1119–25
Distamycin prolongs E–selectin expression by interacting with a specific NF–kappaB–HMG–I(Y) binding site in the promoter. Ghersa P, et al. **Nucleic Acids Res** 1997 Jan 15; 25(2):339–46
Neither HMG–14a nor HMG–17 gene function is required for growth of chicken DT40 cells or maintenance of DNaseI–hypersensitive sites. Li Y, et al. **Nucleic Acids Res** 1997 Jan 15;25(2):283–8
A novel activity of HMG domains: promotion of the triple–stranded complex formation between DNA containing (GGA/TCC)11 and d(GGA)11 oligonucleotides. Suda T, et al. **Nucleic Acids Res** 1996 Dec 1;24(23):4733–40
High level expression of the HMGI (Y) gene during embryonic development. Chiappetta G, et al. **Oncogene** 1996 Dec 5;13(11):2439–46
The HMG–box transcription factor HBP1 is targeted by the pocket proteins and E1A. Lavender P, et al. **Oncogene** 1997 Jun 5;14(22):2721–8
High mobility group proteins HMG–1 and HMG–I/Y bind to a positive regulatory region of the pea plastocyanin gene promoter. Webster CI, et al. **Plant J** 1997 Apr;11(4):703–15
PCR–based development of DNA substrates containing modified bases: an efficient system for investigating the role of the exocyclic groups in chemical and structural recognition by minor groove binding drugs and proteins. Bailly C, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):13623–8
HMG I(Y) interferes with the DNA binding of NF–AT factors and the induction of the interleukin 4 promoter in T cells. Klein–Hessling S, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15311–6
Differential binding of HMG1, HMG2, and a single HMG box to cisplatin–damaged DNA. Farid RS, et al. **Toxicol Appl Pharmacol** 1996 Dec;141(2):532–9
[Effect of phosphorylation by protein kinase C on the DNA binding activity of high mobility group protein I] Xiao D, et al. **Chung Kuo I Hsueh Ko Hsueh Yuan Hsueh Pao** 1996 Apr;18(2):79–83 (Eng. Abstr.) **(Chi)**
[HMG 14—a physiological substrate for casein kinase NII of neuronal chromatin] Kulikova OG, et al. **Biokhimiia** 1996 Jun;61(6):1046–54 (Eng. Abstr.) **(Rus)**

PHARMACOLOGY

Effect of nuclear protein HMG1 on in vitro slippage synthesis of the tandem repeat dTG x dCA. Gibb CL, et al. **Biochemistry** 1997 May 6;36(18):5418–24
Structural transitions of a GG–platinated DNA duplex induced by pH, temperature and box A of high–mobility–group protein 1. Berners–Price SJ, et al. **Eur J Biochem** 1997 Feb 1;243(3):782–91
Coactivation in vitro of the sigma54–dependent promoter Pu of the TOL plasmid of Pseudomonas putida by HU and the mammalian HMG–1 protein. Pérez–Martín J, et al. **J Bacteriol** 1997 Apr;179(8):2757–60

PHYSIOLOGY

Extracellular high–mobility group 1 protein is essential for murine erythroleukaemia cell differentiation. Sparatore B, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):253–6
The Drosophila fish–hook gene encodes a HMG domain protein essential for segmentation and CNS development. Nambu PA, et al. **Development** 1996 Nov;122(11):3467–75
Sox–4 facilitates thymocyte differentiation. Schilham MW, et al. **Eur J Immunol** 1997 May;27(5):1292–5
High mobility group protein I(Y) is required for function and for c–Rel binding to CD28 response elements within the GM–CSF and IL–2 promoters. Himes SR, et al. **Immunity** 1996 Nov;5(5):479–89
High–mobility–group proteins and cancer—an emerging link [editorial] Wunderlich V, et al. **J Cancer Res Clin Oncol** 1997;123(3):133–40
HMG1 protein inhibits the translesion synthesis of the major DNA cisplatin adduct by cell extracts. Hoffmann JS, et al. **J Mol Biol** 1997 Jul 25;270(4):539–43
Structural and functional homology between the 29 kD rat liver nucleoprotein and the high mobility group 1 protein. Petrović M, et al. **Mol Biol Rep** 1996;23(2):79–85
The role of chromatin–associated protein Hbsu in beta–mediated DNA recombination is to facilitate the joining of distant recombination sites. Alonso JC, et al. **Mol Microbiol** 1995 Nov;18(3):471–8
SOX9 directly regulates the type–II collagen gene [see comments] Bell DM, et al. **Nat Genet** 1997 Jun;16(2):174–8 . Comment in: Nat Genet 1997 Jun;16(2):114–5.
High–mobility–group chromosomal proteins: architectural components that facilitate chromatin function. Bustin M, et al. **Prog Nucleic Acid Res Mol Biol** 1996;54:35–100 (287 ref.)

HIGH PERFORMANCE COMPUTING see **COMPUTING METHODOLOGIES**

HIGH PRESSURE NERVOUS SYNDROME

ETIOLOGY

[Involvement of adrenergic mechanisms in developing the nervous syndrome of high pressure and nitrogen narcosis] Sledkov AI, et al. **Aviakosm Ekolog Med** 1996;30(5):28–33 (Eng. Abstr.) **(Rus)**

HIGH PRESSURE NERVOUS SYNDROME

METABOLISM

Glycine activation of human homomeric alpha 1 glycine receptors is sensitive to pressure in the range of the high pressure nervous syndrome. Roberts RJ, et al. **Neurosci Lett** 1996 Apr 19;208(2):125–8

PHYSIOPATHOLOGY

Role of 5-HT1b receptor in the pressure-induced behavioral and neurochemical disorders in rats. Kriem B, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):257–64

Central inhibitory effect of adenosine deaminase on carotid blood flow increase at high pressure. Guerrero F, et al. **Physiol Behav** 1996 Feb;59(2):283–6

PREVENTION & CONTROL

[Prediction of the central effect of pharmacological preparations in a hyperbaric environment] Sledkov AI. **Aviakosm Ekolog Med** 1996;30(6):24–6 (Eng. Abstr.) **(Rus)**

HIGH-RISK PREGNANCY see **PREGNANCY, HIGH-RISK**

HIGH T4 SYNDROME see **EUTHYROID SICK SYNDROMES**

HIGHER NERVOUS ACTIVITY

[Operational stress and higher mental functions: observations on flight crews and paratroopers in different phases of a military airdrop] Longo L. **Riv Med Aeronaut Spaz** 1975 Oct-Dec;38(4):411-26 (Eng. Abstr.) **(Ita)**

[Combined effects of various forms of motor deprivation and gamma irradiation on the higher nervous activity in rats] Shtemberg AS. **Aviakosm Ekolog Med** 1997;31(2):38–43 (Eng. Abstr.) **(Rus)**

[A systems analysis of the value of the psychophysiological characteristics obtained by using the family of Rhythmo-, Mnemo- and Binatest microprocessor apparatus] Piatkov AV. **Med Tekh** 1996 May-Jun;(3):28–31 (Eng. Abstr.) **(Rus)**

[The 45th anniversary of the Institute of Higher Nervous Activity and Neurophysiology of the Russian Academy of Sciences] Simonov PV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 May-Jun; 46(3):636–7 **(Rus)**

[The development of research into higher nervous activity at the I. P. Pavlov Institute of Physiology of the Russian Academy of Sciences over the past 70 years] Suvorov NF. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Sep-Oct; 46(5):819–30 **(Rus)**

PHYSIOLOGY

Pavlov and the mind-body problem. Windholz G. **Integr Physiol Behav Sci** 1997 Apr-Jun;32(2):149–59

Magnetic resonance imaging study of the brain in aged volunteers: T2 high intensity lesions and higher order cortical function. Kasahara H, et al. **Psychiatry Clin Neurosci** 1995 Dec;49(5–6):273–9

[Triggered transcranial magnetic stimulation in high cognitive functions] Kammer T, et al. **Fortschr Neurol Psychiatr** 1996 Jun;64(6):205–11 (44 ref.) (Eng. Abstr.) **(Ger)**

[Alteration of cognitive functions during extended wakefulness: role of the brain functional asymmetry] Volf NV. **Aviakosm Ekolog Med** 1996;30(5):45–8 (Eng. Abstr.) **(Rus)**

[An analysis of the dominant properties of the defensive conditioned reflex] Shul'gina GI, et al. **Fiziol Cheloveka** 1997 May-Jun;23(3):104–8 **(Rus)**

[Idea of feedback in instrumental techniques of studying the central nervous system] Matveev EV. **Med Tekh** 1996 Nov-Dec;(6):12–4 **(Rus)**

[Standardization of of instrumental tools for psychophysiological examinations] Matveev EV. **Med Tekh** 1997 Jan-Feb;(1):40–2 (Eng. Abstr.) **(Rus)**

[Computerized instrumental tools for psychophysiological studies of normal higher nervous activity and in pathology] Matveev EV, et al. **Med Tekh** 1996 Jan-Feb;(1):46–8 (Eng. Abstr.) **(Rus)**

[Main principles in design and manufacture of devices and units for psychophysiological studies] Viktorov VA, et al. **Med Tekh** 1997 Mar-Apr;(2):4–7 **(Rus)**

[The cerebral basis of subjective experiences: the hypothesis of information synthesis] Ivanitskiĭ AM. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):241–52 (41 ref.) (Eng. Abstr.) **(Rus)**

[A coherent analysis of the neocortical electrical activity on the cessation of a thirst dominant] Malikova AK. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec; 46(6):1059–67 (Eng. Abstr.) **(Rus)**

[The effect of "animal hypnosis" on the motor dominant created by the action of direct current on the cortex of the left hemisphere] Rusinova EV. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan-Feb; 47(1):109–16 (Eng. Abstr.) **(Rus)**

[The numerousness judgement by the hooded crow of a set consisting of 12–25 elements] Zorina ZA, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Mar-Apr; 46(2):389–92 **(Rus)**

[The age-related characteristics of neurodynamic functions in schoolchildren under long-term physical training] Ivaniura IO. **Fiziol Zh** 1996;42(5–6):81–9 (Eng. Abstr.) **(Ukr)**

[The correlation of the characteristics of basic nervous processes and memory in younger schoolchildren] Makarenko MV, et al. **Fiziol Zh** 1997;43(3–4):54–63 (Eng. Abstr.) **(Ukr)**

[A comparative analysis of the level of the main properties of nervous processes in youths of different age groups] Nykonenko OP. **Fiziol Zh** 1996;42(1–2):59–64 (Eng. Abstr.) **(Ukr)**

HILL-BURTON ACT see **FINANCING, GOVERNMENT**

HINDBRAIN see **RHOMBENCEPHALON**

HINDLIMB

Arrangement and identification of proteoglycans in basement membrane and intramuscular connective tissue of bovine semitendinosus muscle. Nishimura T, et al. **Acta Anat (Basel)** 1996;155(4):257–65

Laryngeal reflex apnea is blunted during and after hindlimb muscle contraction in sheep. Haouzi P, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):R586–92

Role of the muscle belly and tendon of soleus, gastrocnemius, and plantaris in mechanical energy absorption and generation during cat locomotion [see comments] Prilutsky BI, et al. **J Biomech** 1996 Apr;29(4):417–34. Comment in: J Biomech 1997 Mar;30(3):307, 309.

Transfer of mechanical energy between ankle and knee joints by gastrocnemius and plantaris muscles during cat locomotion. Prilutsky BI, et al. **J Biomech** 1996 Apr; 29(4):391–403

Relationships between range of motion, lo, and passive force in five strap-like muscles of the feline hind limb. Brown IE, et al. **J Morphol** 1996 Oct;230(1):69–77

Stretch hyperreflexia of triceps surae muscles in the conscious cat after dorsolateral spinal lesions. Taylor JS, et al. **J Neurosci** 1997 Jul 1;17(13):5004–15

Diagnostic exercise: cutaneous lesions and unilateral hind limb swelling in a rhesus monkey. Jackson RK, et al. **Lab Anim Sci** 1996 Aug;46(4):444–7

Dermatomes in the rat limbs as determined by antidromic stimulation of sensory C-fibers in spinal nerves. Takahashi Y, et al. **Pain** 1996 Sep;67(1):197–202

Rat whole-limb viability after cold immersion using University of Wisconsin and Euro-Collins solutions. Yokoyama K, et al. **Transplantation** 1996 Oct 15; 62(7):884–8

Correction of tendon contracture in calves [letter] Laven RA, et al. **Vet Rec** 1997 May 31;140(22):587

ABNORMALITIES

Demonstration of congenital anomalies in the joints of the forelimbs and hindlimbs caused by several pharmacological agents. Erdoğan D, et al. **Anat Histol Embryol** 1996 Dec; 25(4):263–7

Morphology of a six-legged goat with duplication of the intestinal, lower urinary, and genital tracts. Otiang'a-Owiti GE, et al. **Anat Rec** 1997 Mar;247(3):432–8

Multigenic control of the localization of the zone of polarizing activity in limb morphogenesis in the mouse. Masuya H, et al. **Dev Biol** 1997 Feb 1;182(1):42–51

Analysis of limb patterning in BMP-7-deficient mice. Hofmann C, et al. **Dev Genet** 1996;19(1):43–50

Cellular analysis of limb development in the mouse mutant hypodactyly. Robertson KE, et al. **Dev Genet** 1996; 19(1):9–25

Maturation-dependent repair of untreated osteochondral defects in the rabbit knee joint. Wei X, et al. **J Biomed Mater Res** 1997 Jan;34(1):63–72

Dietary 1,25-dihydroxycholecalciferol has variable effects on the incidences of leg abnormalities, plasma vitamin D metabolites, and vitamin D receptors in chickens divergently selected for tibial dyschondroplasia. Mitchell RD, et al. **Poult Sci** 1997 Feb;76(2):338–45

The effects of ultraviolet light and cholecalciferol and its metabolites on the development of leg abnormalities in chickens genetically selected for a high and low incidence of tibial dyschondroplasia. Mitchell RD, et al. **Poult Sci** 1997 Feb;76(2):346–54

Phenytoin causes phalangeal hypoplasia in the rabbit fetus at clinically relevant free plasma concentrations. Danielsson BR, et al. **Teratology** 1995 Nov;52(5):252–9

ANATOMY & HISTOLOGY

External marker-based automatic congruencing: a new method of 3D reconstruction from serial sections. Streicher J, et al. **Anat Rec** 1997 Aug;248(4):583–602

Quantification of skin displacement in the proximal parts of the limbs of the walking horse. van Weeren PR, et al. **Equine Vet J Suppl** 1990 Jun;(9):110–8

Anatomical organization of the spinal paths to the soleus and gastrocnemius muscles of the rat hind limb. Tredici G, et al. **J Hirnforsch** 1996;37(1):81–9

BLOOD SUPPLY

Neurogenically derived nitrosyl factors mediate sympathetic vasodilation in the hindlimb of the rat. Davisson RL, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2369–76

Analysis of responses to angiotensin I-(3–10) in the hindlimb vascular bed of the cat. Garrison EA, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1172–7

Sympathetic stimulation elicits increased or decreased VO2 in the perfused rat hindlimb via alpha 1-adrenoceptors. Hall JL, et al. **Am J Physiol** 1997 May;272(5 Pt 2):H2146–53

Calcium channel activity increased by plasma from ischemic hindlimbs of rats: role of an endogenous NO synthase inhibitor. Jin JS, et al. **Am J Physiol** 1996 Apr;270(4 Pt 2):H1484–92

Norepinephrine and serotonin vasoconstriction in rat hindlimb control different vascular flow routes. Newman JM, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E689–99

Analysis of responses to bradykinin in the rat hindquarters vascular bed. Nossaman BD, et al. **Am J Physiol** 1997 Feb; 272(2 Pt 2):R631–9

T-kinin has endothelium-dependent vasodilator activity in the cat. Santiago JA, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):H1491–8

The effects of perfusion conditions on melphalan distribution in the isolated perfused rat hindlimb bearing a human melanoma xenograft. Wu ZY, et al. **Br J Cancer** 1997; 75(8):1160–6

Arterialization of the venous system in a rat lower limb model. Ozek C, et al. **Br J Plast Surg** 1997 Sep;50(6):402–7

Tissue blood flow distribution and the effect of chronic vascular catheterization in the hind limb of the fetal lamb. Knight K, et al. **Can J Physiol Pharmacol** 1996 Nov; 74(11):1270–6

Ischemic preconditioning at a distance: reduction of myocardial infarct size by partial reduction of blood supply combined with rapid stimulation of the gastrocnemius muscle in the rabbit. Birnbaum Y, et al. **Circulation** 1997 Sep 2;96(5):1641–6

Endothelin-1 produces heterogeneous regional haemodynamic effects in conscious rabbits. Roberts-Thomson P, et al. **Clin Exp Hypertens** 1996 Feb; 18(2):145–69

Effect of nitric oxide synthase inhibition on the acetylcholine response in the perfused hind limb of rats. Brouwers-Ceiler DL, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):65–8

Attenuated 5-HT2 receptor-mediated responses in hindquarters of diabetic rats. James GM, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):109–15

Differential effects of lower limb revascularisation on organ injury and the role of the amino acid taurine. Barry MC, et al. **Eur J Vasc Endovasc Surg** 1997 Feb;13(2):193–201

Vascular angiotensin-converting enzyme expression regulates local angiotensin II. Müller DN, et al. **Hypertension** 1997 Jan;29(1 Pt 1):98–104

Effects of cold ischemia on reflow patterns in the rat cremaster muscle microcirculation. Beris AE, et al. **Int Angiol** 1995 Sep;14(3):248–52

Tissue changes at different periods of ischemia. Brunelli GA, et al. **Int Angiol** 1995 Sep;14(3):253–63

Non-noradrenergic sympathetic neurons project to extramuscular feed arteries and proximal intramuscular arteries of skeletal muscles in guinea-pig hindlimbs. Anderson RL, et al. **J Auton Nerv Syst** 1996 Oct 7; 61(1):51–60

Spontaneous cardiac baroreceptor reflex and regional circulations in conscious rats. Ducher M, et al. **J Hypertens** 1996 Jul;14(7):865–9

The role of the A(2A) adenosine receptor subtype in functional hyperaemia in the hindlimb of anaesthetized cats. Poucher SM. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):495–503

Attenuation of acute lung injury caused by hind-limb ischemia-reperfusion injury by butyrolactone anti-inflammatory agent FL1003. Cohen SM, et al. **J Trauma** 1997 Aug;43(2):247–52; discussion 252

Nitric oxide maintains dilation of immature and mature collaterals in rat hindlimb. Unthank JL, et al. **J Vasc Res** 1996 Nov-Dec;33(6):471–9

Suppression of ischemic edema in mice by manganese-hyaluronate conjugate. Sakurai K, et al. **Jpn J Pharmacol** 1997 May;74(1):117–20

Vessels supplying septa and tendons as functional shunts in perfused rat hindlimb. Newman JM, et al. **Microvasc Res** 1997 Jul;54(1):49–57

Role of nitric oxide in cutaneous blood flow increases in the rat hindpaw during dorsal column stimulation. Croom JE, et al. **Neurosurgery** 1997 Mar;40(3):565–70; discussion 571

Tone-dependent vasodilator responses to proadrenomedullin NH2-terminal 20 peptide in the hindquarters vascular bed of the rat. Champion HC, et al. **Peptides** 1997;18(4):513–9

Effects of captopril on responses to bradykinin in the hindquarters vascular bed of the rat. Nossaman BD, et al. **Peptides** 1997;18(4):491–4

Ischemia and reperfusion injury: prevention of pulmonary hypertension and leukosequestration following lower limb ischemia. Bengisun J, et al. **Prostaglandins Leukot Essent Fatty Acids** 1997 Feb; 56(2):117–20

Papaverine injection into the hindlimb circulation stimulates ventilation in sheep. Haouzi P, et al. **Respir Physiol** 1996 Aug;105(1–2):143–53

Hindquarter sympathetic tone induced by small blood loss in conscious rats. Teranishi Y, et al.

Tohoku J Exp Med 1997 May;182(1):69–73

Scintigraphic assessment of distal extremity perfusion in 17 patients. Goggin JM, et al. **Vet Radiol Ultrasound** 1997 May–Jun;38(3):211–20

The medial saphenous fasciocutaneous free flap in dogs. Degner DA, et al. **Vet Surg** 1996 Mar–Apr;25(2):105–13

Mortality following lower limb ischemia–reperfusion: a systemic inflammatory response? Yassin MM, et al. **World J Surg** 1996 Oct;20(8):961–6; discussion 966–7

[Controlled reperfusion of the extremities for preventing local and systemic damage after prolonged ischemia. An experimental study with the swine model] Mitrev Z, et al. **Zentralbl Chir** 1996;121(9):774–87 (Eng. Abstr.) **(Ger)**

[The developmental characteristics of the arterial collaterals under ischemia and sympathectomy of the hindlimbs in dogs] Tusbaev GT. **Morfologiia** 1996;110(5):54–7 (Eng. Abstr.) **(Rus)**

[The role of the eicosanoids in the development of a postischemic shock reaction] Zhukova AV, et al. **Fiziol Zh** 1996;42(1–2):3–9 (Eng. Abstr.) **(Ukr)**

DRUG EFFECTS

Comparison of the effects of endotoxin on limb, respiratory, and cardiac muscles. Supinski G, et al. **J Appl Physiol** 1996 Sep;81(3):1370–8

Zinc reduces the hyperalgesia and upregulation of NGF and IL–1 beta produced by peripheral inflammation in the rat. Safieh–Garabedian B, et al. **Neuropharmacology** 1996 May; 35(5):599–603

Induction of interleukin–1 beta mRNA in the hypothalamus following subcutaneous injections of formalin into the rat hind paws. Yabuuchi K, et al. **Neurosci Lett** 1996 Mar 29; 207(2):109–12

EMBRYOLOGY

Recent molecular advances in understanding vertebrate limb development. Robertson KE, et al. **Br J Plast Surg** 1997 Feb;50(2):109–15 (59 ref.)

Hoxa–13 and Hoxd–13 play a crucial role in the patterning of the limb autopod. Fromental–Ramain C, et al. **Development** 1996 Oct;122(10):2997–3011

Evidence of a role for T–box genes in the evolution of limb morphogenesis and the specification of forelimb/hindlimb identity. Gibson–Brown JJ, et al. **Mech Dev** 1996 May; 56(1–2):93–101

BMP expression in duck interdigital webbing: a reanalysis [letter] Laufer E, et al. **Science** 1997 Oct 10;278(5336):305

GROWTH & DEVELOPMENT

An immunohistochemical study of enthesis development in the medial collateral ligament of the rat knee joint. Gao J, et al. **Anat Embryol (Berl)** 1996 Oct;194(4):399–406

Cartilage calcification and limb bud growth in the developing tich mouse embryo. Ahmed Z, et al. **Calcif Tissue Int** 1997 Jun;60(6):561–6

Postnatal development and plasticity of specialized muscle fiber characteristics in the hindlimb. Garry DJ, et al. **Dev Genet** 1996;19(2):146–56

Bone regeneration after amputation stimulated by basic fibroblast growth factor in vitro [letter] Zhao W, et al. **In Vitro Cell Dev Biol Anim** 1996 Feb;32(2):63–5

Maturation–dependent repair of untreated osteochondral defects in the rabbit knee joint. Wei X, et al. **J Biomed Mater Res** 1997 Jan;34(1):63–72

Morphogenesis and differentiation of grafted blastemas formed in vitro from amputated hindlimbs of larval Xenopus laevis. Bernardini S, et al. **J Exp Zool** 1996 Nov 1;276(4):301–5

INJURIES

Radiographic detection of gravel in soft tissue. Chisholm CD, et al. **Ann Emerg Med** 1997 Jun;29(6):725–30

Reduction of ischemic reperfusion edema with corticotropin–releasing factor (CRF) in rat hind limb replantation. Whitney TM, et al. **Ann Plast Surg** 1997 Apr; 38(4):416–9; discussion 419–20

What is your diagnosis? Oblique fracture of the right hind distal phalanx in a horse. Sedrish SA, et al. **J Am Vet Med Assoc** 1996 Aug 15;209(4):729–30

Radiographic diagnosis--aberrant bone growth following phalangeal fracture. Anderson MA, et al. **Vet Radiol Ultrasound** 1997 Jan–Feb;38(1):48–9

Radiographic, computed tomographic and magnetic resonance imaging evaluation of a chronic long digital extensor tendon avulsion in a dog. Fitch RB, et al. **Vet Radiol Ultrasound** 1997 May–Jun;38(3):177–81

INNERVATION

Traumatic brain injury of the forelimb and hindlimb sensorimotor areas in the rat: physiological, histological and behavioral correlates. Soblosky JS, et al. **Behav Brain Res** 1996 Sep;79(1–2):79–92

L–DOPA and quipazine elicit air–stepping in neonatal rats with spinal cord transections. McEwen ML, et al. **Behav Neurosci** 1997 Aug;111(4):825–33

Intense peripheral electrical stimulation differentially inhibits tail vs. limb withdrawal reflexes in the rat. Romita VV, et al. **Brain Res** 1996 May 13;720(1–2):45–53

Muscle sensory innervation patterns in embryonic chick hindlimbs following dorsal root ganglion reversal. Wang G, et al. **Dev Biol** 1997 Jun 1;186(1):27–35

Brain–derived neurotrophic factor mRNA levels are up–regulated in hindlimb skeletal muscle of diabetic rats: effect of denervation. Fernyhough P, et al. **Exp Neurol** 1996 Oct;141(2):297–303

Gracile, cuneate, and spinal trigeminal projections to inferior olive in rat and monkey. Molinari HH, et al. **J Comp Neurol** 1996 Nov 18;375(3):467–80

Organization of hindlimb nerve projections to the rat spinal cord: a choleragenoid horseradish peroxidase study. Rivero–Melián C. **J Comp Neurol** 1996 Jan 22; 364(4):651–63

Locomotion of the hindlimbs after neurectomy of ankle flexors in intact and spinal cats: model for the study of locomotor plasticity. Carrier L, et al. **J Neurophysiol** 1997 Apr;77(4):1979–93

Localization of the spinal network associated with generation of hindlimb locomotion in the neonatal rat and organization of its transverse coupling system. Kremer E, et al. **J Neurophysiol** 1997 Mar;77(3):1155–70

Primary afferent depolarizations of sensory origin within contact–sensitive mechanoreceptive afferents of a crayfish leg. Marchand AR, et al. **J Neurophysiol** 1997 Jun; 77(6):3340–54

Dynamics of neurons controlling movements of a locust hind leg. III. Extensor tibiae motor neurons. Newland PL, et al. **J Neurophysiol** 1997 Jun;77(6):3297–310

Neurotization of motor nerves innervating the lower extremity by utilizing the lower intercostal nerves. Zhao S, et al. **J Reconstr Microsurg** 1997 Jan;13(1):39–45

Relationship between representation of hindpaw and hindpaw barrel subfield (HBS) in layer IV of rat somatosensory cortex. Pearson PP, et al. **Neuroreport** 1996 Oct 2;7(14):2317–23

Evidence for monosynaptic projections from the nucleus retroambiguus to hindlimb motoneurons in the cat. VanderHorst VG, et al. **Neurosci Lett** 1997 Mar 7; 224(1):33–6

A noninvasive method for studying quantitatively heat–evoked nocifensive hindlimb withdrawal reflexes in lightly anesthetized rats. Hämäläinen MM, et al. **Physiol Behav** 1996 Feb;59(2):389–92

Evaluation of hindpaw position in rats during chronic constriction injury (CCI) produced with different suture materials. Kajander KC, et al. **Somatosens Mot Res** 1996; 13(2):95–101

Most dorsal root ganglion neurons of the adult rat survive nerve crush injury. Swett JE, et al. **Somatosens Mot Res** 1995;12(3–4):177–89

METABOLISM

31P nuclear magnetic resonance study on changes in phosphocreatine and the intracellular pH in rat skeletal muscle during exercise at various inspired oxygen contents. Sunoo S, et al. **Eur J Appl Physiol** 1996;74(4):305–10

Effect of vitamin E deprivation and exercise training on induction of HSP70. Kelly DA, et al. **J Appl Physiol** 1996 Dec;81(6):2379–85

Tissue distribution kinetics as determinant of transit time dispersion of drugs in organs: application of a stochastic model to the rat hindlimb. Weiss M, et al. **J Pharmacokinet Biopharm** 1996 Apr;24(2):173–96

The isolated hind limb preparation as a drug distribution model. Casquero–Dorado AC, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):453–8

PATHOLOGY

Accessory ossification centres associated with osteochondral fragments in the extremities of horses. Grøndahl AM, et al. **J Comp Pathol** 1996 May;114(4):385–98

PHYSIOLOGY

Apoptosis: a mechanism contributing to remodeling of skeletal muscle in response to hindlimb unweighting. Allen DL, et al. **Am J Physiol** 1997 Aug;273(2 Pt 1):C579–87

Vertical loading rates in clinically normal dogs at a trot. Budsberg SC, et al. **Am J Vet Res** 1995 Oct;56(10):1275–80

The developmental skeletal growth in the rat foot is reduced after denervation. Edoff K, et al. **Anat Embryol (Berl)** 1997 Jun;195(6):531–8

Utilization of the Denny–Brown collection: differential recovery of forelimb and hind limb stepping after extensive unilateral cerebral lesions. Vilensky JA, et al. **Behav Brain Res** 1997 Jan;82(2):223–33

A measure of peripheral nerve stimulation efficacy applicable to H–reflex studies. Boorman GI, et al. **Can J Neurol Sci** 1996 Nov;23(4):264–70

Kinematics of the distal hindlimb during stance phase in the fast trotting standardbred [see comments] Johnston C, et al. **Equine Vet J** 1996 Jul;28(4):263–8. Comment in: Equine Vet J 1996 Jul;28(4):253.

The effect of an acute angulation of the hind hooves on diagonal synchrony of trotting horses [see comments] Clayton HM. **Equine Vet J Suppl** 1990 Jun;(9):91–4. Comment in: Equine Vet J Suppl 1990 Jun;(9):6–7.

The role of the reciprocal apparatus in the hind limb of the horse investigated by a modified CODA–3 opto–electronic kinematic analysis system. van Weeren PR, et al. **Equine Vet J Suppl** 1990 Jun;(9):95–100

Effect of hindlimb unloading on locomotor strategy during treadmill locomotion in the rat. Canu MH, et al. **Eur J Appl Physiol** 1996;74(4):297–304

Effect of hindlimb unloading on two hindlimb muscles during treadmill locomotion in rats. Canu MH, et al. **Eur J Appl Physiol** 1997;75(4):283–8

Daily durations of spontaneous activity in cat's ankle muscles. Hensbergen E, et al. **Exp Brain Res** 1997 Jun;115(2):325–32

Centre of gravity of the body during the ontogeny of chimpanzee bipedal walking. Kimura T. **Folia Primatol (Basel)** 1996;66(1–4):126–36

Mobility of hindlimb joints in Japanese macaques (Macaca fuscata) as influenced by biarticular musculature. Okada M, et al. **Folia Primatol (Basel)** 1996;66(1–4):181–91

Restraint vs. hindlimb suspension on fluid and electrolyte balance in rats. Bouzeghrane F, et al. **J Appl Physiol** 1996 Jun;80(6):1993–2001

Lactate uptake by skeletal muscle sarcolemmal vesicles decreases after 4 wk of hindlimb unweighting in rats. Dubouchaud H, et al. **J Appl Physiol** 1996 Feb;80(2):416–21

Capillary–to–fiber surface ratio in rat fast–twitch hindlimb muscles after chronic electrical stimulation. Mathieu–Costello O, et al. **J Appl Physiol** 1996 Mar; 80(3):904–9

Muscle adaptations to hindlimb suspension in mature and old Fischer 344 rats. Stump CS, et al. **J Appl Physiol** 1997 Jun;82(6):1875–81

Peak force and maximal shortening velocity of soleus fibers after non–weight–bearing and resistance exercise. Widrick JJ, et al. **J Appl Physiol** 1997 Jan;82(1):189–95

Soleus fiber force and maximal shortening velocity after non–weight bearing with intermittent activity. Widrick JJ, et al. **J Appl Physiol** 1996 Mar;80(3):981–7

Mechanical actions of heterogenic reflexes among ankle stabilizers and their interactions with plantarflexors of the cat hindlimb. Bonasera SJ, et al. **J Neurophysiol** 1996 May; 75(5):2050–70

Contribution of hind limb flexor muscle afferents to the timing of phase transitions in the cat step cycle. Hiebert GW, et al. **J Neurophysiol** 1996 Mar;75(3):1126–37

Quantitative changes of GABA–immunoreactive cells in the hindlimb representation of the rat somatosensory cortex after 14–day hindlimb unloading by tail suspension. D'Amelio F, et al. **J Neurosci Res** 1996 Jun 15;44(6):532–9

Kinematic analysis of limb position during quadrupedal locomotion in rats. Broton JG, et al. **J Neurotrauma** 1996 Jul;13(7):409–16

Group I extensor afferents evoke disynaptic EPSPs in cat hindlimb extensor motorneurones during fictive locomotion. Angel MJ, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):851–61

Growth and differentiation of fast and slow muscles in fetal sheep, and the effects of hypophysectomy. Javen I, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):839–49

Neuropeptide Y–like substances are released from the rostral brainstem of cats during the muscle pressor response. Williams CA. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):267–77

Increases in gastric acidity in response to electroacupuncture stimulation of the hindlimb of anesthetized rats. Noguchi E, et al. **Jpn J Physiol** 1996 Feb;46(1):53–8

Thermogenic responses to high–energy phosphate contents and/or hindlimb suspension in rats. Wakatsuki T, et al. **Jpn J Physiol** 1996 Apr;46(2):171–5

Metabolic alterations in muscle of thermally injured rabbits, measured by positron emission tomography. Carter EA, et al. **Life Sci** 1997;61(1):39–44

Movements of mouse fetuses in early stages of neural development studied in vitro. Suzue T. **Neurosci Lett** 1996 Nov 1;218(2):131–4

PHYSIOPATHOLOGY

Post–treatment hind–leg paralysis in mice infected with Trypanosoma brucei brucei: a light microscopic study. Fernandes JH, et al. **Acta Trop** 1997 Feb;63(2–3):179–84

In vitro laxity–testers for knee joints of mice. Blankevoort L, et al. **J Biomech** 1996 Jun;29(6):799–806

Neuronal and muscular inclusions in rats with hindlimb dysfunction after treating with difluorobenzhydrylpiperadine. Yamanaka Y, et al. **Toxicol Pathol** 1997 Mar–Apr;25(2):150–7

Efficacy of an epidural combination of morphine and detomidine in alleviating experimentally induced hindlimb lameness in horses. Sysel AM, et al. **Vet Surg** 1996 Nov–Dec;25(6):511–8

RADIOGRAPHY

Radiographic changes in the knee after meniscal transplantation: an experimental study in a sheep model [letter; comment] Pitman MI. **Am J Sports Med** 1996 Nov–Dec;24(6):866. Comment on: Am J Sports Med 1996 Mar–Apr;24(2):222–6.

SURGERY

Fetal chondral homografts in the repair of articular cartilage defects. Specchia N, et al. **Bull Hosp Jt Dis** 1996; 54(4):230–5

Strength of different meniscus suturing techniques. Aşik M, et al. **Knee Surg Sports Traumatol Arthrosc** 1997;5(2):80–3

[Structural rearrangement of lymphatic and blood capillaries in the rat replanted limb] Volodina AV, et al. **Patol Fiziol Eksp Ter** 1996 Oct–Dec;(4):30–3 (Eng. Abstr.) **(Rus)**

HINDLIMB

TRANSPLANTATION

Morphogenesis and differentiation of grafted blastemas formed in vitro from amputated hindlimbs of larval Xenopus laevis. Bernardini S, et al. **J Exp Zool** 1996 Nov 1;276(4):301–5

Long–term survival of limb allografts after weaning of cyclosporine: possible role of microchimerism. Durlik M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1226–7

Role of in situ IL–2r and TGF–beta expression in tolerant vascularized bone marrow (limb) transplant chimeras. Tatem LD, et al. **Transplant Proc** 1997 Jun;29(4):2194–5

Immunocytes of composite tissue allografts express elevated levels of TGF beta mRNA and protein during chronic rejection. Walgenbach KJ, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1542

Combination leflunomide and cyclosporine prevents rejection of functional whole limb allografts in the rat. Yeh LS, et al. **Transplantation** 1997 Sep 27;64(6):919–22

ULTRASTRUCTURE

An ultrastructural study of the perichondrium in cartilages of the chick embryo. Bairati A, et al. **Anat Embryol (Berl)** 1996 Aug;194(2):155–67

HINDLIMB IMMOBILIZATION see **HINDLIMB SUSPENSION**

HINDLIMB SUSPENSION

Effects of vigorous exercise training and beta–agonist administration on bone response to hindlimb suspension. Bloomfield SA, et al. **J Appl Physiol** 1997 Jul;83(1):172–8

Passive tension in rat hindlimb during suspension unloading and recovery: muscle/joint contributions. Gillette PD, et al. **J Appl Physiol** 1996 Aug;81(2):724–30

ADVERSE EFFECTS

Influence of two weeks of non–weight bearing on rat soleus motoneurons and muscle fibers. Ishihara A, et al. **Aviat Space Environ Med** 1997 May;68(5):421–5

Changes in radioactive tracer distribution in rats after 24 hours of 45 degrees hind limb unweighting. Padilla MT, et al. **Aviat Space Environ Med** 1997 Aug;68(8):726–31

PHYSIOLOGY

Effects of acute and chronic hindlimb suspension on sensitivity and responsiveness to insulin in the rat soleus muscle. Langfort J, et al. **Biochem Cell Biol** 1997;75(1):41–4

Quantitative assessment of degenerative changes in soleus muscle after hindlimb suspension and recovery. Bigard AX, et al. **Eur J Appl Physiol** 1997;75(5):380–7

Cytoplasm–to–myonucleus ratios in plantaris and soleus muscle fibres following hindlimb suspension. Kasper CE, et al. **J Muscle Res Cell Motil** 1996 Oct;17(5):603–10

Quantitative changes of GABA–immunoreactive cells in the hindlimb representation of the rat somatosensory cortex after 14–day hindlimb unloading by tail suspension. D'Amelio F, et al. **J Neurosci Res** 1996 Jun 15;44(6):532–9

HINDUISM

see related
MEDICINE, AYURVEDIC

The relationship between pretheoretical assumptions and clinical reasoning. Hooper B. **Am J Occup Ther** 1997 May; 51(5):328–38

Analysis of mtDNA [letter; comment] Spurdle A, et al. **Hum Biol** 1997 Jun;69(3):431–5. Comment on: Hum Biol 1996 Feb;68(1):1–28.

Suicide and Hinduism [letter; comment] Ineichen B. **Psychiatr Serv** 1996 Oct;47(10):1128. Comment on: Psychiatr Serv 1996 May;47(5):517–21.

Missing front teeth in exile Tamils—an unresolved phenomenon. Wolf M. **Soc Sci Med** 1996 Oct;43(7):1057–62

PSYCHOLOGY

The fourth state of consciousness: the Thuriya Avastha. Ramamurthi B. **Psychiatry Clin Neurosci** 1995 May; 49(2):107–10 (0 ref.)

HIP

consider also terms at COX–

Septic arthritis of the hip in children. Mc Gaughey I. **Aust Fam Physician** 1997 Feb;26(2):158–60

Reliability and validity of clinical outcome measurements of osteoarthritis of the hip and knee—a review of the literature. Sun Y, et al. **Clin Rheumatol** 1997 Mar; 16(2):185–98 (65 ref.)

Hip pains in a recreational runner. Batt ME, et al. **Int J Sports Med** 1995 Nov;16(8):563–7

External hip protectors [letter] Cameron I, et al. **J Am Geriatr Soc** 1997 Sep;45(9):1158

Anterior hip pain in the adult: an algorithmic approach to diagnosis. Mansour ES, et al. **J Am Osteopath Assoc** 1997 Jan;97(1):32–8 (29 ref.)

Fistula between the hip and the sigmoid colon after total hip arthroplasty. A case report. Levin JS, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1240–2

Acute calcific tendinitis of the rectus femoris. Sarkar JS, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):814–6

Radiology case of the month. Hip and back pain in the elderly. Stress injury of bone. McCarthy K, et al. **J La State Med Soc** 1997 Jan;149(1):10–1

Bursitis of the iliopsoas: four cases with pain as the only clinical indicator [see comments] Fortin L, et al. **J Rheumatol** 1995 Oct;22(10):1971–3. Comment in: J Rheumatol 1996 Oct;23(10):1828.

Diagnosis and management of closed internal degloving injuries associated with pelvic and acetabular fractures: the Morel–Lavallée lesion. Hak DJ, et al. **J Trauma** 1997 Jun; 42(6):1046–51

ABNORMALITIES

Congenital conditions that lead to osteoarthritis in the dog. Martinez SA. **Vet Clin North Am Small Anim Pract** 1997 Jul;27(4):735–58 (54 ref.)

ANATOMY & HISTOLOGY

Radiographic variables in normal and osteoarthritic hips. Laforgia R, et al. **Bull Hosp Jt Dis** 1996;54(4):215–21

Anthropometric measures as a predictor of cephalopelvic disproportion. Burgess HA. **Trop Doct** 1997 Jul;27(3):135–8

BLOOD SUPPLY

Periprosthetic microvasculature in loosening of total hip replacement. Santavirta S, et al. **Arch Orthop Trauma Surg** 1996;115(5):286–9

Impaired blood flow response following pressure load in diabetic patients with cardiac autonomic neuropathy. van Marum RJ, et al. **Arch Phys Med Rehabil** 1997 Sep; 78(9):1003–6

INJURIES

Vertical transmission of the hip rolls due to wearing of TLSO for scoliosis. Korovessis P, et al. **J Spinal Disord** 1996 Aug; 9(4):326–33

Jacob's limp. Hoenig LJ. **Semin Arthritis Rheum** 1997 Feb; 26(4):684–8

PATHOLOGY

MR imaging measurement of the femoral antetorsional angle as a new technique: comparison with CT in children and adults. Tomczak RJ, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):791–4

Iliopsoas bursa enlargement [letter; comment] Jones PB. **Br J Rheumatol** 1997 Jan;36(1):149. Comment on: Br J Rheumatol 1996 Mar;35(3):285–8.

Assessment of bone involvement in patients with multiple myeloma using bone densitometry. Abildgaard N, et al. **Eur J Haematol** 1996 Nov;57(5):370–6

Ceramic–ceramic and metal–polyethylene total hip replacements: comparison of pseudomembranes after loosening. Lerouge S, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):135–9

Synovial chondrosarcoma arising in synovial chondromatosis of the right hip. Hermann G, et al. **Skeletal Radiol** 1997 Jun;26(6):366–9

[Transient osteoporosis of the hip and magnetic nuclear resonance] Arias C, et al. **Acta Orthop Belg** 1996 Dec; 62(4):225–8 (Eng. Abstr.) **(Fre)**

[High resolution MR imaging of the hip using pelvic phased–array coil] Niitsu M, et al. **Nippon Igaku Hoshasen Gakkai Zasshi** 1997 Jan;57(1):58–60 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

The effect of knee immobilization on degree of hip flexion: a clinical correlation with posterior wall acetabular fractures. Alexander RD, et al. **Am J Orthop** 1997 May; 26(5):345–7

Ultrasound measurements in the calcaneus: precision and its relation with bone mineral density of the heel, hip, and lumbar spine. Graafmans WC, et al. **Bone** 1996 Aug; 19(2):97–100

Abdominal and hip flexor muscle activation during various training exercises. Andersson EA, et al. **Eur J Appl Physiol** 1997;75(2):115–23

Hip bone mineral density is improved by high–impact aerobic exercise in postmenopausal women and men over 50 years. Welsh L, et al. **Eur J Appl Physiol** 1996;74(6):511–7

The control of non–twisting somersaults using configuration changes. Yeadon MR, et al. **J Biomech** 1996 Oct; 29(10):1341–8

Effect of femoral offset on motion and abductor muscle strength after total hip arthroplasty [letter] Spalding TJ. **J Bone Joint Surg Br** 1996 Nov;78(6):997–8

Altered load history affects periprosthetic bone loss following cementless total hip arthroplasty. Bryan JM, et al. **J Orthop Res** 1996 Sep;14(5):762–8

Axial and hip bone mineral density and radiographic changes of osteoarthritis of the knee: data from the Baltimore Longitudinal Study of Aging. Lethbridge–Cejku M, et al. **J Rheumatol** 1996 Nov;23(11):1943–7

Comparison of predicted and measured contact pressures in normal and dysplastic hips. Michaeli DA, et al. **Med Eng Phys** 1997 Mar;19(2):180–6

Contraction of the abdominal muscles associated with movement of the lower limb. Hodges PW, et al. **Phys Ther** 1997 Feb;77(2):132–42; discussion 142–4

The biomechanics of hip protectors. Mills NJ. **Proc Inst Mech Eng [H]** 1996;210(4):259–66

Kinematic analysis of lumbar and hip motion while rising from a forward, flexed position in patients with and without a history of low back pain. McClure PW, et al. **Spine** 1997 Mar 1;22(5):552–8

PHYSIOPATHOLOGY

Oral alendronate induces progressive increases in bone mass of the spine, hip, and total body over 3 years in postmenopausal women with osteoporosis. Devogelaer JP, et al. **Bone** 1996 Feb;18(2):141–50

The association of abnormalities on physical examination of the hip and knee with locomotor disability in the Rotterdam Study. Odding E, et al. **Br J Rheumatol** 1996 Sep; 35(9):884–90

Analysis of lumbar spine and hip motion during forward bending in subjects with and without a history of low back pain. Esola MA, et al. **Spine** 1996 Jan 1;21(1):71–8

RADIOGRAPHY

Idiopathic transient osteoporosis of the hip. Major NM, et al. **Arthritis Rheum** 1997 Jun;40(6):1178–9

Bone mineral density in normal Swedish women. Löfman O, et al. **Bone** 1997 Feb;20(2):167–74

Fluoride pharmacokinetics and changes in lumbar spine and hip bone mineral density. Patel S, et al. **Bone** 1996 Dec; 19(6):651–5

Measuring anteversion and femoral neck–shaft angle in cerebral palsy. Miller F, et al. **Dev Med Child Neurol** 1997 Feb;39(2):113–8

Radiology case of the month. Hip trauma. Normal physiologic asymmetric closure of the ischiopubic synchondroses. Neitzschman HR. **J La State Med Soc** 1997 Jun;149(6):186–8

Discrepancies in ultrasonography of the infant hip. Joseph KN, et al. **J Pediatr Orthop B** 1996 Fall;5(4):273–8

A longitudinal study of supine lateral DXA of the lumbar spine: a comparison with posteroanterior spine, hip and total–body DXA. Blake GM, et al. **Osteoporos Int** 1996; 6(6):462–70

RADIONUCLIDE IMAGING

Aggressive granulomatosis causing a painful hip arthroplasty. Findings on bone and Ga–67 imaging. Gayle EL, et al. **Clin Nucl Med** 1996 Apr;21(4):337–9

SURGERY

The effect of enoxaparin in prevention of deep venous thrombosis in hip and knee surgery—a comparison with the dihydroergotamine–heparin combination. Perhoniemi V, et al. **Ann Chir Gynaecol** 1996;85(4):359–63

A fatal low–molecular–weight heparin–associated thrombocytopenia after hip surgery: possible usefulness of PF4–heparin ELISA test. Elalamy I, et al. **Blood Coagul Fibrinolysis** 1996 Oct;7(7):665–71

The friction of explanted hip prostheses. Hall RM, et al. **Br J Rheumatol** 1997 Jan;36(1):20–6

A comparison of the penetration of cefuroxime and cephamandole into bone, fat and haematoma fluid in patients undergoing total hip replacement. Lovering AM, et al. **J Antimicrob Chemother** 1997 Jul;40(1):99–104

Bacterial recolonization of the skin under a polyurethane drape in hip surgery. Fleischmann W, et al. **J Hosp Infect** 1996 Oct;34(2):107–16

In vitro measurement of strain in the bone cement surrounding the femoral component of total hip replacements during simulated gait and stair–climbing. O'Connor DO, et al. **J Orthop Res** 1996 Sep;14(5):769–77

Cement viscosity affects the bone–cement interface in total hip arthroplasty. Stone JJ, et al. **J Orthop Res** 1996 Sep; 14(5):834–7

High leg incision fascia lata harvesting. Naugle TC Jr, et al. **Ophthalmology** 1997 Sep;104(9):1480–8

Enhanced efficacy of autologous blood donation with epoetin alfa. Nydegger U. **Semin Hematol** 1997 Apr;33(2 Suppl 2):39–40; discussion 41–2

Resection of heterotopic ossification of the hip in spinal cord injured patients. Meiners T, et al. **Spinal Cord** 1997 Jul; 35(7):443–5

The historic lethality of penetrating wounds to the hip. Helling TS, et al. **Surgery** 1997 Mar;121(3):264–77

Prolonged thromboprophylaxis following hip replacement surgery—results of a double–blind, prospective, randomised, placebo–controlled study with dalteparin (Fragmin). Dahl OE, et al. **Thromb Haemost** 1997 Jan; 77(1):26–31

ULTRASONOGRAPHY

Transient osteoporosis of the hip with joint effusion detected by ultrasonography. Koski JM, et al. **Clin Rheumatol** 1997 Jun;16(4):404–8

Discrepancies in ultrasonography of the infant hip. Joseph KN, et al. **J Pediatr Orthop B** 1996 Fall;5(4):273–8

[Correlation of pathological clinical hip symptoms in the sonographic study of infant hips] Merk H, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar–Apr;135(2):112–5 (Eng. Abstr.) **(Ger)**

[Ultrasonography of the neonatal hip: state of the art and

perspectives] Ortore P, et al. **Radiol Med (Torino)** 1996 Jul-Aug;92(1-2):10-5 (40 ref.) (Eng. Abstr.) **(Ita)**

HIP CONTRACTURE

ETIOLOGY

Factors affecting appearance patterns of hip-flexion contractures and their effects on postural and gait abnormalities. Shimada T. **Kobe J Med Sci** 1996 Aug; 42(4):271-90

PHYSIOPATHOLOGY

Factors affecting appearance patterns of hip-flexion contractures and their effects on postural and gait abnormalities. Shimada T. **Kobe J Med Sci** 1996 Aug; 42(4):271-90

SURGERY

Total hip reconstruction in a woman with Cornelia de Lange syndrome: a case report. Grant RE, et al. **J Natl Med Assoc** 1997 Aug;89(8):530-2

HIP DISLOCATION

Hip instability encountered in pediatric podiatry practice. Harris EJ. **Clin Podiatr Med Surg** 1997 Jan;14(1):179-208 (24 ref.)

Habitual voluntary dislocation of the hip in a child. A case report. Moon MS, et al. **Int Orthop** 1996;20(5):330-2

Posterior hip dislocation in a five-year-old boy: a case report, review of the literature, and current recommendations. Hughes MJ, et al. **J Emerg Med** 1996 Sep-Oct;14(5):585-90

CLASSIFICATION

Intermediate-term experience of Pipkin fracture-dislocations of the hip. Marchetti ME, et al. **J Orthop Trauma** 1996; 10(7):455-61

[Re H. Duruz' article on injuries of the pelvis and femur (Vol 117, pp. 77-80, 1997) (letter; comment)] Vasey H. **Rev Med Suisse Romande** 1997 Apr;117(4):365-6. Comment on: Rev Med Suisse Romande 1997 Jan;117(1):77-80. **(Fre)**

[Injury classification and surgical approach in hip dislocations and fractures] Bauer GJ, et al. **Orthopade** 1997 Apr; 26(4):304-16 (31 ref.) (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Late superior gluteal nerve palsy following posterior fracture-dislocation of the hip. Güleç A, et al. **Acta Orthop Belg** 1996 Dec;62(4):218-21

Traumatic hip dislocation during childhood [letter; comment] Trousdale RT. **Am J Orthop** 1997 Feb;26(2):73, 76. Comment on: Am J Orthop 1996 Sep;25(9):645-9.

Pathological and hemodynamic study in a new model of femoral head necrosis following traumatic dislocation. Nishino M, et al. **Arch Orthop Trauma Surg** 1997; 116(5):259-62

An unstable fracture dislocation of the hip due to an occult free intra-articular fragment: case report. Gakuu LN. **East Afr Med J** 1996 Sep;73(9):625-6

Asymmetrical bilateral traumatic hip dislocation with ipsilateral fracture of the femoral shaft. Maqsood M, et al. **Injury** 1996 Sep;27(7):521-2

Valgus-extension osteotomy for advanced osteoarthritis in dysplastic hips. Results at 12 to 18 years. Gotoh E, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):609-15

Iliopectineal bursitis [letter; comment] Murphy SB. **J R Soc Med** 1997 Jun;90(6):359. Comment on: J R Soc Med 1997 Mar;90(3):158-9.

A large ganglion cyst in a patient with hip dysplasia. DiMaio FR, et al. **Orthopedics** 1997 Jul;20(7):650-2

[Fatigue rupture of a Harris-Galante shell in contact with an autograft of the femur head. Analysis of bone, mechanical and metallurgical factors] Migaud H, et al. **Acta Orthop Belg** 1996 Sep;62(3):168-72 (Eng. Abstr.) **(Fre)**

CONGENITAL see HIP DISLOCATION, CONGENITAL

DIAGNOSIS

Traumatic hip dislocation during childhood. A case report and review of the literature [see comments] Petrie SG, et al. **Am J Orthop** 1996 Sep;25(9):645-9 (25 ref.). Comment in: Am J Orthop 1997 Feb;26(2):73, 76.

Posterior instability of the hip in an adult. A case report. McGrory BJ, et al. **Clin Orthop** 1997 Aug;(341):151-4

[Hip dislocation and fractures (editorial)] Schweiberer L, et al. **Orthopade** 1997 Apr;26(4):303 **(Ger)**

[Proton-spin, computerized tomography and arthrography in hip dysplasia] Exner U. **Z Orthop Ihre Grenzgeb** 1996 Sep-Oct;134(5):Oa19 **(Ger)**

EPIDEMIOLOGY

Osteoarthritis of the hip and acetabular dysplasia in Nigerian men. Ali-Gombe A, et al. **J Rheumatol** 1996 Mar; 23(3):512-5

ETIOLOGY

A rare case of hip dislocation after internal fixation of a femoral neck fracture without infection. Younge D, et al. **Can J Surg** 1997 Feb;40(1):56-8

Dislocation of the hip following intertrochanteric fracture [letter; comment] Combalia A. **Injury** 1996 Dec; 27(10):757-8. Comment on: Injury 1995 Nov;26(9):645-6.

Dislocation after bipolar hemiarthroplasty of the hip. Barnes CL, et al. **J Arthroplasty** 1995 Oct;10(5):667-9

Influence of surgical approach on dislocations after Charnley hip arthroplasty. Hedlundh U, et al. **J Arthroplasty** 1995 Oct;10(5):609-14

Pemberton pelvic osteotomy and varus rotational osteotomy in the treatment of acetabular dysplasia in patients who have static encephalopathy. Gordon JE, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1863-71

The influence of patient-related factors and the position of the acetabular component on the rate of dislocation after total hip replacement. Paterno SA, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1202-10

Bilateral dislocation of the hip during convulsions: a case report. Rath E, et al. **J Bone Joint Surg Br** 1997 Mar; 79(2):304-6 (6 ref.)

Recurrent traumatic dislocation of the hip: report of a case and review of the literature. Weber M, et al. **J Orthop Trauma** 1997 Jul;11(5):382-5 (16 ref.)

Traumatic inferior hip dislocation in an adult (luxatio erecta). Bartley RE 3d, et al. **Orthopedics** 1995 Dec;18(12):1173-4

Hip dislocation: causes and cures. Rorabeck CH. **Orthopedics** 1997 Sep;20(9):795-7

[Dislocation-dissociation of a bipolar hip prosthesis] Corteel J, et al. **Acta Orthop Belg** 1996 Sep;62(3):173-6 (Eng. Abstr.) **(Fre)**

[Dislocation of total hip endoprosthesis with special reference to various techniques] Kohn D, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb;135(1):40-4 (Eng. Abstr.) **(Ger)**

PATHOLOGY

Location of acetabular deficiency and associated hip dislocation in neuromuscular hip dysplasia: three-dimensional computed tomographic analysis. Kim HT, et al. **J Pediatr Orthop** 1997 Mar-Apr;17(2):143-51

PHYSIOPATHOLOGY

Posterior hip dislocations: a cadaveric angiographic study. Yue JJ, et al. **J Orthop Trauma** 1996;10(7):447-54

PREVENTION & CONTROL

Surveillance measures of the hips of children with bilateral cerebral palsy. Scrutton D, et al. **Arch Dis Child** 1997 Apr; 76(4):381-4

RADIOGRAPHY

Bilateral thigh pain. Blase TM. **Acad Emerg Med** 1997 Jan; 4(1):63, 71, 77-8

Bilateral traumatic hip dislocation with bilateral sciatic nerve injury. Sener M, et al. **Arch Orthop Trauma Surg** 1997; 116(4):225-6

X-ray transparency interpositions after reduction of traumatic dislocations of the hip in children. Gennari JM, et al. **Eur J Pediatr Surg** 1996 Oct;6(5):288-93

The reliability of measurements of pelvic radiographs in infants. Boniforti FG, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):570-5

Morphology of the acetabulum in hip dislocations caused by cerebral palsy. Brunner R, et al. **J Pediatr Orthop B** 1997 Jul;6(3):207-11

RADIONUCLIDE IMAGING

Larsen syndrome. Extraosseous uptake of bone imaging agent. Sty JR, et al. **Clin Nucl Med** 1996 Aug;21(8):649-50

SURGERY

Deformity of the proximal end of the femur following open reduction for developmental dislocation of the hip. Ikegami K, et al. **Acta Med Okayama** 1997 Feb;51(1):39-44

Psoas and adductor release in children with cerebral palsy. Spruit M, et al. **Acta Orthop Belg** 1997 Jun;63(2):91-3

Dynamics of hip joint remodeling after Chiari osteotomy. 10 patients with neuromuscular disease followed for 8 years. Osebold WR, et al. **Acta Orthop Scand** 1997 Apr; 68(2):128-32

Long-term follow-up results of rotational acetabular osteotomy in painful dysplastic hips: efficacy in delaying the onset of osteoarthritis. Takatori Y, et al. **Am J Orthop** 1996 Mar;25(3):222-5

The hip in children with cerebral palsy. Predicting the outcome of soft tissue surgery. Cornell MS, et al. **Clin Orthop** 1997 Jul;(340):165-71

Twenty years' followup of intertrochanteric osteotomy for treatment of the dysplastic hip. Iwase T, et al. **Clin Orthop** 1996 Oct;(331):245-55

X-ray transparency interpositions after reduction of traumatic dislocations of the hip in children. Gennari JM, et al. **Eur J Pediatr Surg** 1996 Oct;6(5):288-93

Recurrent dislocation of a hemiarthroplasty stabilized with an ABC ligament. Nicholl JE, et al. **Injury** 1996 Jul; 27(6):447-8

Self-compressive osteotomy of the greater trochanter. Naito M, et al. **Int Orthop** 1997;21(2):119-21

Use of anchor sutures to repair labral avulsions of the hip: a brief report. Weigel DP, et al. **Iowa Orthop J** 1997; 17:141-3

Bone-graft augmentation for acetabular deficiencies in total hip arthroplasty. Results of long-term follow-up evaluation. Lee BP, et al. **J Arthroplasty** 1997 Aug; 12(5):503-10

Pemberton pelvic osteotomy and varus rotational osteotomy in the treatment of acetabular dysplasia in patients who have static encephalopathy. Gordon JE, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1863-71

Pemberton pericapsular osteotomy to treat a dysplastic hip in cerebral palsy. Shea KG, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1342-51

Rotational acetabular osteotomy for severe dysplasia of the hip [letter; comment] Hartofilakidis G, et al. **J Bone Joint Surg Br** 1997 May;79(3):510. Comment on: J Bone Joint Surg Br 1996 Nov;78(6):871-7.

The prognosis and treatment of dislocated total hip arthroplasties with a 22 mm head. Hedlundh U, et al. **J Bone Joint Surg Br** 1997 May;79(3):374-8

Femoral remodelling after subtrochanteric osteotomy for developmental dysplasia of the hip. Sangavi SM, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):917-23

Rotational acetabular osteotomy for severe dysplasia of the hip with a false acetabulum [see comments] Shindo H, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):871-7. Comment in: J Bone Joint Surg Br 1997 May;79(3):510.

Recurrent traumatic dislocation of the hip: report of a case and review of the literature. Weber M, et al. **J Orthop Trauma** 1997 Jul;11(5):382-5 (16 ref.)

Hip dysplasia in Hurler's syndrome: orthopaedic management after bone marrow transplantation [see comments] Masterson EL, et al. **J Pediatr Orthop** 1996 Nov-Dec; 16(6):731-3. Comment in: J Pediatr Orthop 1996 Nov-Dec;16(6):701-3.

Management of the dysplastic hip. Gross AE. **Orthopedics** 1997 Sep;20(9):789-90

THERAPY

Closed reduction for total hip arthroplasty dislocation. The Tulsa technique. Vosburgh CL, et al. **J Arthroplasty** 1995 Oct;10(5):693-4

[Treatment of Pipkin fractures] Nast-Kolb D, et al. **Orthopade** 1997 Apr;26(4):360-7 (24 ref.) (Eng. Abstr.) **(Ger)**

[Hip dislocation without bone injuries] Vécsei V, et al. **Orthopade** 1997 Apr;26(4):317-26 (Eng. Abstr.) **(Ger)**

ULTRASONOGRAPHY

Ultrasonography of nondevelopmental dysplasia of the hips. Grissom LE, et al. **Pediatr Radiol** 1997 Jan;27(1):70-4

VETERINARY

What is your diagnosis? Physeal fractures of the caput, greater trochanter and distal portion of the femur in a dog. Clary EM, et al. **J Am Vet Med Assoc** 1996 Oct 15; 209(8):1391-2

Long-term results of treatment of traumatic coxofemoral joint dislocation in dogs: 64 cases (1973-1992). Evers P, et al. **J Am Vet Med Assoc** 1997 Jan 1;210(1):59-64

What is your diagnosis? Herniation of the small intestine through the dorsal lumbar musculature, multiple pelvic fractures, sacroiliac subluxation, and a right craniodorsal coxofemoral luxation. Hawthorne JC, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):33-4

HIP DISLOCATION, CONGENITAL

Hip instability encountered in pediatric podiatry practice. Harris EJ. **Clin Podiatr Med Surg** 1997 Jan;14(1):179-208 (24 ref.)

BLOOD

Pathogenetic relevance of the pregnancy hormone relaxin to inborn hip instability. Forst J, et al. **Arch Orthop Trauma Surg** 1997;116(4):209-12

CLASSIFICATION

Influence of the Crowe rating on the outcome of total hip arthroplasty in congenital hip dysplasia. Cameron HU, et al. **J Arthroplasty** 1996 Aug;11(5):582-7

Classification of adult congenital hip dysplasia for total hip arthroplasty. Mendes DG, et al. **Orthopedics** 1996 Oct; 19(10):881-7; quiz 888-9

COMPLICATIONS

Congenital hip dislocation and subtrochanteric pseudoarthrosis. Hip replacement based on computer-aided analysis. Beris AE, et al. **Acta Orthop Scand** 1996 Dec; 67(6):617-9

Reconstruction of residual deformities of the hip. A new surgical option. Papavasiliou VA, et al. **Clin Orthop** 1997 Aug;(341):123-7

Early innominate osteotomy as a treatment for avascular necrosis complicating developmental hip dysplasia. Bar-On E, et al. **J Pediatr Orthop B** 1997 Apr;6(2):138-45

[Congenital hip dislocation associated with spina bifida]

Jorquera P, et al. **Rev Med Chil** 1996 Jan;124(1):57–60 (Eng. Abstr.) **(Spa)**

DIAGNOSIS

Developmental dysplasia of the hip. Pizzutillo PD. **Instr Course Lect** 1994;43:179–83 (10 ref.)

Decline in the incidence of late diagnosed congenital dislocation of the hip. Ferris H, et al. **Ir J Med Sci** 1997 Apr–Jun;166(2):85–7

Are congenital malformations in older people underdiagnosed? [letter] Fernández-Viadero C, et al. **J Am Geriatr Soc** 1997 Jul;45(7):895–7

Hip joint acetabular dysplasia [editorial] Wedge JH. **J Pediatr Orthop** 1997 Mar–Apr;17(2):141–2

Imaging of developmental dysplasia of the hip. Donaldson JS, et al. **Pediatr Clin North Am** 1997 Jun;44(3):591–614 (35 ref.)

A radiologist's guide to the imaging in the diagnosis and treatment of developmental dysplasia of the hip. I. General considerations, physical examination as applied to real-time sonography and radiography. Gerscovich EO. **Skeletal Radiol** 1997 Jul;26(7):386–97 (38 ref.)

[Clinical and radiological semiology of unilateral hip dysplasia in infants] Ligier JN. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):643–6 (Eng. Abstr.) **(Fre)**

[Developmental hip disorders in infants. Diagnosis and therapy (editorial)] Graf R. **Orthopade** 1997 Jan;26(1):1 **(Ger)**

[Clinical studies in suspected hip dysplasia or dislocation] Parsch K. **Orthopade** 1997 Jan;26(1):7–13 (48 ref.) (Eng. Abstr.) **(Ger)**

[Forensic problems in the treatment of hip dysplasias and dislocations] Matthiessen HD. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec;134(6):Oa10–2 **(Ger)**

[Dysplasia epiphysealis capitis femoris] Kowalski M, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(5):453–8 (Eng. Abstr.) **(Pol)**

EPIDEMIOLOGY

Validation of the reporting bases of the orthopaedic and paediatric surveillance schemes. Godward S, et al. **Arch Dis Child** 1996 Sep;75(3):232–6

Decline in the incidence of late diagnosed congenital dislocation of the hip. Ferris H, et al. **Ir J Med Sci** 1997 Apr–Jun;166(2):85–7

Developmental dysplasia of the hip in South Australia in 1991: prevalence and risk factors. Yiv BC, et al. **J Paediatr Child Health** 1997 Apr;33(2):151–6

Developmental dysplasia of the hip: prevalence based on ultrasound diagnosis. Rosendahl K, et al. **Pediatr Radiol** 1996 Sep;26(9):635–9

ETIOLOGY

Perinatal risk factors for developmental dysplasia of the hip. Chan A, et al. **Arch Dis Child Fetal Neonatal Ed** 1997 Mar; 76(2):F94–100

The cerebral palsied hip. Black BE, et al. **Clin Orthop** 1997 May;(338):42–51

Congenital dislocation of the hip in extrauterine pregnancy [letter; comment] Kohler R. **J Bone Joint Surg Br** 1997 Mar;79(2):343. Comment on: J Bone Joint Surg Br 1996 Sep;78(5):751–3.

Congenital dislocation of the hip in extrauterine pregnancy [see comments] Uglow MG, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):751–3 (17 ref.). Comment in: J Bone Joint Surg Br 1997 Mar;79(2):343.

[Obstetric and perinatal risk factors for congenital dislocation of the hip] Fuentes Díaz A, et al. **An Esp Pediatr** 1997 Jan;46(1):29–32 (Eng. Abstr.) **(Spa)**

GENETICS

Deafness and Mondini dysplasia in Kabuki (Niikawa-Kuroki) syndrome. Report of a case and review of the literature. Toutain A, et al. **Genet Couns** 1997;8(2):99–105 (40 ref.)

PATHOLOGY

Re: Acetabular rim pathology secondary to congenital hip dysplasia in the adult. A radiographic study [letter] Klaue K. **Chir Organi Mov** 1997 Jan–Mar;82(1):VII–VIII **(Eng, Ita)**

[Hip dysplasia in infancy. Proton spin tomography and computerized tomography] Exner GU, et al. **Orthopade** 1997 Jan;26(1):59–66 (Eng. Abstr.) **(Ger)**

[Hip dysplasia. Morphology, biomechanics and therapeutic principles with reference to the acetabular labrum] Tschauner C, et al. **Orthopade** 1997 Jan;26(1):89–108 (26 ref.) **(Ger)**

PHYSIOPATHOLOGY

Analysis of the gait of adults who had residua of congenital dysplasia of the hip. Romanò CL, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1468–79

Gait analysis of adult patients with complete congenital dislocation of the hip. Lai KA, et al. **J Formos Med Assoc** 1997 Sep;96(9):740–4

Comparison of predicted and measured contact pressures in normal and dysplastic hips. Michaeli DA, et al. **Med Eng Phys** 1997 Mar;19(2):180–6

[Hip dysplasia. Morphology, biomechanics and therapeutic principles with reference to the acetabular labrum] Tschauner C, et al. **Orthopade** 1997 Jan;26(1):89–108 (26 ref.) **(Ger)**

[Dysplasia and therapy factors in hip developmental disorders (news)] Matthiessen HD. **Z Orthop Ihre Grenzgeb** 1997 Jan–Feb;135(1):Oa12–3 **(Ger)**

[Developmental dysplasia of the hip] Shitrit D, et al. **Harefuah** 1997 May 1;132(9):656–61 (28 ref.) **(Heb)**

[Hip joint congenital dysplasia, examination, treatment, ultrasound assessment in newborns and infants according to Graf] Pyka P, et al. **Pediatr Pol** 1996 Jun;71(6):543–7 (24 ref.) **(Pol)**

PREVENTION & CONTROL

An "orthopaedic' psoas abscess. Napier-Hemy RD, et al. **Br J Urol** 1997 Feb;79(2):291–2

The effect of ultrasonographic screening on the incidence of developmental dislocation of the hip. Krismer M, et al. **Int Orthop** 1996;20(2):80–2

[Results of hip ultrasonographic screening in Austria] Grill F, et al. **Orthopade** 1997 Jan;26(1):25–32 (Eng. Abstr.) **(Ger)**

RADIOGRAPHY

Dynamic ultrasonography of the infant hip with suspected instability. A new technique. Finnbogason T, et al. **Acta Radiol** 1997 Mar;38(2):206–9

Neglected congenital dislocation of the hip. Role of computed tomography and computer-aided design for total hip arthroplasty. Xenakis TA, et al. **J Arthroplasty** 1996 Dec;11(8):893–8

Severin classification system for evaluation of the results of operative treatment of congenital dislocation of the hip. A study of intraobserver and interobserver reliability. Ward WT, et al. **J Bone Joint Surg Am** 1997 May;79(5):656–63

Variability in the assessment of acetabular index. Kay RM, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):170–3

Three-dimensional characteristics of cartilaginous and bony components of dysplastic hips in children: three-dimensional computed tomography quantitative analysis. Lin CJ, et al. **J Pediatr Orthop** 1997 Mar–Apr; 17(2):152–7

Three-dimensional computer analysis of complex acetabular insufficiency. Roach JW, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):158–64

The predictive value of the development of the acetabular teardrop figure in developmental dysplasia of the hip. Smith JT, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):165–9

Measurement of acetabular index intraobserver and interobserver variation. Spatz DK, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):174–5

Ultrasound compared with radiographic assessment in developmental dysplasia of the hip. McEvoy A, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):254–5

Developmental hip and pelvis radiology. Cleveland DL, et al. **Radiol Technol** 1997 Jan–Feb;68(3):249–52

Radiographic measurements of dysplastic adult hips. Delaunay S, et al. **Skeletal Radiol** 1997 Feb;26(2):75–81 (31 ref.)

[Correlation between ultrasonography and roentgen imaging] Melzer C. **Orthopade** 1997 Jan;26(1):43–8 (Eng. Abstr.) **(Ger)**

[Roentgen studies and arthrography of the hip joint in infancy] Tönnis D. **Orthopade** 1997 Jan;26(1):49–58 (53 ref.) (Eng. Abstr.) **(Ger)**

SURGERY

Congenital hip dislocation and subtrochanteric pseudoarthrosis. Hip replacement based on computer-aided analysis. Beris AE, et al. **Acta Orthop Scand** 1996 Dec; 67(6):617–9

Total hip replacement for developmental dysplasia of the hip. Paavilainen T. **Acta Orthop Scand** 1997 Feb; 68(1):77–84

Contemporary trends in orthopaedics of the hip joint. 1. Surgical treatment of congenital dislocation of the hip joint. Rejholec M. **Acta Univ Carol [Med] (Praha)** 1992; 38(1–4):3–23

Laser Doppler flowmetry during open reduction for developmental dysplasia of the hip. Bassett GS, et al. **Clin Orthop** 1997 Jul;(340):158–64

Total hip arthroplasty in neglected congenital dislocation of the hip. Symeonides PP, et al. **Clin Orthop** 1997 Aug; (341):55–61

Traction in developmental dislocation of the hip. Is its use justified? Weinstein SL. **Clin Orthop** 1997 May;(338):79–85 (48 ref.)

Combined acetabuloplasty and varus derotation osteotomy in congenital dislocation of the hip. Long-term results. Hess T, et al. **Int Orthop** 1996;20(6):350–6

Influence of the Crowe rating on the outcome of total hip arthroplasty in congenital hip dysplasia. Cameron HU, et al. **J Arthroplasty** 1996 Aug;11(5):582–7

Use of iliofemoral distraction in reducing high congenital dislocation of the hip before total hip arthroplasty. Lai KA, et al. **J Arthroplasty** 1996 Aug;11(5):588–93

Innominate osteotomy in adolescents and adults who have acetabular dysplasia. McCarthy JJ, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1455–61

Long-term outcome after open reduction through an anteromedial approach for congenital dislocation of the hip. Morcuende JA, et al. **J Bone Joint Surg Am** 1997 Jun; 79(6):810–7

Total hip arthroplasty for congenital dysplasia or dislocation of the hip. Survivorship analysis and long-term results. Numair J, et al. **J Bone Joint Surg Am** 1997 Sep; 79(9):1352–60

Isolated proximal femoral osteotomy for treatment of residua of congenital dysplasia or idiopathic osteoarthrosis of the hip. Five to ten-year results. Perlau R, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1462–7

Colonna arthroplasty with concomitant femoral shortening and rotational osteotomy. Long-term results. Stans AA, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):84–96

Severin classification system for evaluation of the results of operative treatment of congenital dislocation of the hip. A study of intraobserver and interobserver reliability. Ward WT, et al. **J Bone Joint Surg Am** 1997 May;79(5):656–63

Varus derotational osteotomy for persistent dysplasia in CDH [letter; comment] Ateçs Y, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):853. Comment on: J Bone Joint Surg Br 1995 Sep;77(5):756–61.

Triple osteotomy of the pelvis for acetabular dysplasia: results at 8 to 15 years. de Kleuver M, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):225–9

Ludloff's medial approach for open reduction of congenital dislocation of the hip. A 20-year follow-up. Koizumi W, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):924–9

Early deterioration after modified rotational acetabular osteotomy for the dysplastic hip. Matsui M, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):220–4

Primary Charnley total hip arthroplasty for congenital dysplasia: effect of improved techniques of cementing. Okamoto T, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):83–6

Triple innominate osteotomy and rotational acetabular osteotomy in the treatment of congenital hip dysplasia. Huang SC, et al. **J Formos Med Assoc** 1997 Feb;96(2):91–7

Medial open reduction in the treatment of developmental dislocation of the hip. Tumer Y, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):176–80

Late results after subtrochanteric angulation osteotomy in young patients. Schiltenwolf M, et al. **J Pediatr Orthop B** 1996 Fall;5(4):259–67

Classification of adult congenital hip dysplasia for total hip arthroplasty. Mendes DG, et al. **Orthopedics** 1996 Oct; 19(10):881–7; quiz 888–9

[Enlargement plasty of the acetabulum by vascularized iliac crest cartilage transfer in children] Clément JL, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(7):636–42 (Eng. Abstr.) **(Fre)**

[Acetabuloplasty] Ekkernkamp M, et al. **Orthopade** 1997 Jan; 26(1):75–80 (Eng. Abstr.) **(Ger)**

[Open reduction technique] Hefti F. **Orthopade** 1997 Jan; 26(1):67–74 (55 ref.) (Eng. Abstr.) **(Ger)**

[Late results of Salter's pelvic osteotomy] Schuhr T. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec;134(6):Oa18–20 **(Ger)**

[Developmental dysplasia of the hip] Shitrit D, et al. **Harefuah** 1997 May 1;132(9):656–61 (28 ref.) **(Heb)**

[Greater trochanter epiphyseodesis in treatment of hip deformity] Pucher A, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(1):47–53 (Eng. Abstr.) **(Pol)**

[The results of operations for open reduction with capsular hip joint arthroplasty in congenital hip dislocation in children] Khalkhodzhaev M, et al. **Vestn Khir Im I I Grek** 1996;155(4):45–6 (Eng. Abstr.) **(Rus)**

[Arthroplasty in the treatment of congenital anomalies of the hip in adults] Savić D, et al. **Med Pregl** 1997 Mar–Apr; 50(3–4):120–3 (Eng. Abstr.) **(Scr)**

THERAPY

Role of ultrasound assessment and harness treatment in the management of developmental dysplasia of the hip [see comments] Sochart DH, et al. **Ann R Coll Surg Engl** 1996 Nov;78(6):505–8. Comment in: Ann R Coll Surg Engl 1997 Mar;79(2):157–8.

Developmental dysplasia of the hip. Pizzutillo PD. **Instr Course Lect** 1994;43:179–83 (10 ref.)

Management of dislocated hips with Pavlik harness treatment and ultrasound monitoring. Harding MG, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):189–98

A comparative study of nonoperative versus operative treatment of developmental dysplasia of the hip in patients of walking age. Huang SC, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):181–8

Obturator dislocation in developmental dislocation of the hip: a complication during treatment. Fernández González J, et al. **J Pediatr Orthop B** 1996 Spring;5(2):129–31

[Treatment of hip dislocations and subluxations by Petit's splints] Lefort G, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1995;81(7):609–15 (Eng. Abstr.) **(Fre)**

[Treatment of congenital hip dislocation using Pavlik's harness. Long term results] Mafalda Santos M, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):41–50 (Eng. Abstr.) **(Fre)**

[Ultrasonography-guided therapy] Graf R. **Orthopade** 1997 Jan;26(1):33–42 (67 ref.) (Eng. Abstr.) **(Ger)**

[Developmental hip disorders in infants. Diagnosis and therapy (editorial)] Graf R. **Orthopade** 1997 Jan;26(1):1 **(Ger)**

[Forensic problems in the treatment of hip dysplasias and dislocations] Matthiessen HD. **Z Orthop Ihre Grenzgeb** 1996 Nov–Dec;134(6):Oa10–2 **(Ger)**

[Modified Van Nes operation for treatment of congenital proximal femoral focal deficiency] Lejman T, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):131–7 (Eng. Abstr.) **(Pol)**

ULTRASONOGRAPHY

Developmental dysplasia of the hip. A population–based comparison of ultrasound and clinical findings. Rosendahl K, et al. **Acta Paediatr** 1996 Jan;85(1):64–9

Role of ultrasound and harness treatment in the management of developmental dysplasia of the hip [letter; comment] Dodenhoff RM. **Ann R Coll Surg Engl** 1997 Mar; 79(2):157–8. Comment on: Ann R Coll Surg Engl 1996 Nov;78(6):505–8.

Role of ultrasound assessment and harness treatment in the management of developmental dysplasia of the hip [see comments] Sochart DH, et al. **Ann R Coll Surg Engl** 1996 Nov;78(6):505–8. Comment in: Ann R Coll Surg Engl 1997 Mar;79(2):157–8.

Pathogenetic relevance of the pregnancy hormone relaxin to inborn hip instability. Forst J, et al. **Arch Orthop Trauma Surg** 1997;116(4):209–12

Early ultrasound diagnosis of developmental dysplasia of the hip. De Pellegrin M, et al. **Bull Hosp Jt Dis** 1996; 54(4):222–5 (26 ref.)

The effect of ultrasonographic screening on the incidence of developmental dislocation of the hip. Krismer M, et al. **Int Orthop** 1996;20(2):80–2

Prospective evaluation of newborn soft–tissue hip "clicks" with ultrasound. Bond CD, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):199–201

Management of dislocated hips with Pavlik harness treatment and ultrasound monitoring. Harding MG, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):189–98

Ultrasound screening for congenital dislocation of the hip: a limited targeted programme. Teanby DN, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):202–4

Acetabular notch. Portinaro NM, et al. **J Pediatr Orthop B** 1997 Jan;6(1):48–51

Ultrasound as the primary imaging method in the diagnosis of hip dysplasia in children aged < 2 years. Terjesen T. **J Pediatr Orthop B** 1996 Spring;5(2):123–8

Ultrasound compared with radiographic assessment in developmental dysplasia of the hip. McEvoy A, et al. **J R Coll Surg Edinb** 1997 Aug;42(4):254–5

Developmental dysplasia of the hip: prevalence based on ultrasound diagnosis. Rosendahl K, et al. **Pediatr Radiol** 1996 Sep;26(9):635–9

A radiologist's guide to the imaging in the diagnosis and treatment of developmental dysplasia of the hip. II. Ultrasonography: anatomy, technique, acetabular angle measurements, acetabular coverage of femoral head, acetabular cartilage thickness, three–dimensional technique, screening of newborns, study of older children. Gerscovich EO. **Skeletal Radiol** 1997 Aug;26(8):447–56 (14 ref.)

[Echography in the diagnosis of dysplastic hip development (see comments)] Castelein RM, et al. **Ned Tijdschr Geneeskd** 1996 Sep 7;140(36):1804–8 (37 ref.) . Comment in: Ned Tijdschr Geneeskd 1996 Dec 7;140(49):2479. Comment in: Ned Tijdschr Geneeskd 1997 Jan 25;141(4):216. **(Dut)**

[Echography in the diagnosis of dysplastic hip development (letter; comment)] Juttmann RI, et al. **Ned Tijdschr Geneeskd** 1996 Dec 7;140(49):2479. Comment on: Ned Tijdschr Geneeskd 1996 Sep 7;140(36):1804–8. **(Dut)**

[Echography in the diagnosis of dysplastic hip development (letter; comment)] Kramer PP, et al. **Ned Tijdschr Geneeskd** 1997 Jan 25;141(4):216. Comment on: Ned Tijdschr Geneeskd 1996 Sep 7;140(36):1804–8. **(Dut)**

[New approaches to 3D–ultrasonographic imaging of infant hips] Franke J, et al. **Orthopade** 1997 Mar;26(3):210–4 (Eng. Abstr.) **(Ger)**

[Hip ultrasonography. Basic principles and current aspects] Graf R. **Orthopade** 1997 Jan;26(1):14–24 (70 ref.) (Eng. Abstr.) **(Ger)**

[Ultrasonography–guided therapy] Graf R. **Orthopade** 1997 Jan;26(1):33–42 (67 ref.) (Eng. Abstr.) **(Ger)**

[Correlation between ultrasonography and roentgen imaging] Melzer C. **Orthopade** 1997 Jan;26(1):43–8 (Eng. Abstr.) **(Ger)**

[Experiences with a 3–D ultrasound system in infant hip joints] Graf R, et al. **Ultraschall Med** 1996 Oct;17(5):218–24 (Eng. Abstr.) **(Ger)**

[Gray scale histographic analysis of the acetabular cartilage for quantifying hip ultrasound images] Merk H, et al. **Ultraschall Med** 1997 Apr;18(2):62–6 (Eng. Abstr.) **(Ger)**

[Correlation of pathological clinical hip symptoms in the sonographic study of infant hips] Merk H, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar–Apr;135(2):112–5 (Eng. Abstr.) **(Ger)**

[Ultrasonography of the neonatal hip: state of the art and perspectives] Ortore P, et al. **Radiol Med (Torino)** 1996 Jul–Aug;92(1–2):10–5 (40 ref.) (Eng. Abstr.) **(Ita)**

[Congenital hip dislocation. Ultrasonic screening of newborn infants] Rosendahl K, et al. **Tidsskr Nor Laegeforen** 1997 Jan 30;117(3):346–52 (61 ref.) (Eng. Abstr.) **(Nor)**

[Hip joint congenital dysplasia, examination, treatment, ultrasound assessment in newborns and infants according to Graf] Pyka P, et al. **Pediatr Pol** 1996 Jun;71(6):543–7 (24 ref.) **(Pol)**

HIP DYSPLASIA, CANINE

Proceedings of the International Symposium on Hip Dysplasia and Osteoarthritis in Dogs. August 1996. **J Am Vet Med Assoc** 1997 May 15;210(10):1443–98

The International Symposium on Hip Dysplasia and Osteoarthritis in Dogs [comment] Cardinet GH 3rd, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1417–8. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1443–5. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1446–50. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1451–7. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1458–62. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1463–5. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1466–73. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1474–9. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1480–2. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1483–5. Comment on: J Am Vet Med Assoc 1997 May 15;210(10):1486–92.

COMPLICATIONS

Congenital conditions that lead to osteoarthritis in the dog. Martinez SA. **Vet Clin North Am Small Anim Pract** 1997 Jul;27(4):735–58 (54 ref.)

DIAGNOSIS

Kinematic gait analysis in dogs with hip dysplasia. Bennett RL, et al. **Am J Vet Res** 1996 Jul;57(7):966–71

Advances in diagnosing canine hip dysplasia [see comments] Smith GK. **J Am Vet Med Assoc** 1997 May 15; 210(10):1451–7 (30 ref.). Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

[The biomechanics of the hip joint using new diagnostic aspects in the field of hip joint dysplasia. Constructive criticism of hip dysplasia diagnosis and present marketable breeding methods with an outlook on future perspectives and possibilities. Part I] Schawalder P, et al. **Schweiz Arch Tierheilkd** 1996;138(11):511–22 (0 ref.) (Eng. Abstr.) **(Ger)**

EPIDEMIOLOGY

Prevalence and inheritance of and selection for hip dysplasia in seven breeds of dogs in Sweden and benefit: cost analysis of a screening and control program. Swenson L, et al. **J Am Vet Med Assoc** 1997 Jan 15;210(2):207–14

[Analysis of development of hip joint dysplasia in dogs] Ledecký V, et al. **Vet Med (Praha)** 1997 Jan;42(1):1–4 (Eng. Abstr.) **(Slo)**

ETIOLOGY

Association between pelvic muscle mass and canine hip dysplasia [see comments] Cardinet GH 3rd, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1466–73. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

An overview of the pathogenesis of canine hip dysplasia [see comments] Lust G. **J Am Vet Med Assoc** 1997 May 15; 210(10):1443–5 (20 ref.). Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

The joint capsule and joint laxity in dogs with hip dysplasia [see comments] Madsen JS. **J Am Vet Med Assoc** 1997 May 15;210(10):1463–5 (26 ref.). Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

GENETICS

Genetics of canine hip dysplasia [see comments] Leighton EA. **J Am Vet Med Assoc** 1997 May 15;210(10):1474–9 (16 ref.). Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

Prevalence and inheritance of and selection for hip dysplasia in seven breeds of dogs in Sweden and benefit: cost analysis of a screening and control program. Swenson L, et al. **J Am Vet Med Assoc** 1997 Jan 15;210(2):207–14

PATHOLOGY

A retrospective study of canine hip dysplasia in 116 military working dogs. Part I: Angle measurements and orthopedic foundation for animals (OFA) grading. Banfield CM, et al. **J Am Anim Hosp Assoc** 1996 Sep–Oct;32(5):413–22

Variations in composition of cartilage from the shoulder joints of young adult dogs at risk for developing canine hip dysplasia [see comments] Farquhar T, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1483–5. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

Pathologic alterations in canine hip dysplasia [see comments] Morgan SJ. **J Am Vet Med Assoc** 1997 May 15; 210(10):1446–50 (20 ref.). Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

PHYSIOPATHOLOGY

Kinematic gait analysis in dogs with hip dysplasia. Bennett RL, et al. **Am J Vet Res** 1996 Jul;57(7):966–71

Prospective evaluation of ground reaction forces in dogs undergoing unilateral total hip replacement. Budsberg SC, et al. **Am J Vet Res** 1996 Dec;57(12):1781–5

A retrospective study of canine hip dysplasia in 116 military working dogs. Part II: Clinical signs and performance data. Banfield CM, et al. **J Am Anim Hosp Assoc** 1996 Sep–Oct; 32(5):423–30

PREVENTION & CONTROL

A review of the progress in canine hip dysplasia control in Britain [see comments] Willis MB. **J Am Vet Med Assoc** 1997 May 15;210(10):1480–2. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

RADIOGRAPHY

Onset of epiphyseal mineralization and growth plate closure in radiographically normal and dysplastic Labrador retrievers [see comments] Todhunter RJ, et al. **J Am Vet Med Assoc** 1997 May 15;210(10):1458–62. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

BVA/Kennel Club hip dysplasia scheme [letter] Jones DG. **Vet Rec** 1996 Aug 24;139(8):195

Clinical and radiographic evaluation of intertrochanteric osteotomy in dogs: a retrospective study of 18 dogs. Evers P, et al. **Vet Surg** 1997 May–Jun;26(3):217–22

[Hip dysplasia in dogs—a new radiologic technique for the recognition of loose hip joints] Flückiger M, et al. **Schweiz Arch Tierheilkd** 1997;139(4):183–5 (0 ref.) **(Ger)**

SURGERY

Prospective evaluation of ground reaction forces in dogs undergoing unilateral total hip replacement. Budsberg SC, et al. **Am J Vet Res** 1996 Dec;57(12):1781–5

The effect of triple pelvic osteotomy on hip force in dysplastic dogs: a theoretical analysis. Dejardin LM, et al. **Vet Surg** 1996 Mar–Apr;25(2):114–20

Clinical and radiographic evaluation of intertrochanteric osteotomy in dogs: a retrospective study of 18 dogs. Evers P, et al. **Vet Surg** 1997 May–Jun;26(3):217–22

HIP DYSPLASIA, CONGENITAL see **HIP DISLOCATION, CONGENITAL**

HIP FRACTURES

Phalangeal bone density and hip fracture risk. Mussolino ME, et al. **Arch Intern Med** 1997 Feb 24;157(4):433–8

Cohort study of risk of institutionalisation after hip fracture. Cumming RG, et al. **Aust N Z J Public Health** 1996 Dec; 20(6):579–82

Prediction of the outcome after hip fracture in elderly patients. Svensson O, et al. **J Bone Joint Surg Br** 1996 Jan; 78(1):115–8

Serum undercarboxylated osteocalcin and the risk of hip fracture [editorial; comment] Seibel MJ, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):717–8. Comment on: J Clin Endocrinol Metab 1997 Mar;82(3):719–24.

Undercarboxylated osteocalcin measured with a specific immunoassay predicts hip fracture in elderly women: the EPIDOS Study [see comments] Vergnaud P, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):719–24. Comment in: J Clin Endocrinol Metab 1997 Mar;82(3):717–8.

Has improved nutrition contributed to the hip fracture epidemic? Reid IR. **Mol Cell Endocrinol** 1996 Oct 30; 123(2):123–5 (27 ref.)

[Hip fractures (editorial)] Jensen J. **Ugeskr Laeger** 1997 May 19;159(21):3124–5 **(Dan)**

BLOOD

Reliability of parathyroid hormone measurements in the period immediately following hip fracture. Johansen A, et al. **Age Ageing** 1997 May;26(3):175–8

Undercarboxylated osteocalcin (ucOC) level should be considered a marker of the risk of hip fracture [letter; comment] Minisola S, et al. **Bone** 1996 Nov;19(5):565. Comment on: Bone 1996 May;18(5):487–8.

[Vitamin D levels in patients with hip fracture in Madrid] Martínez ME, et al. **Med Clin (Barc)** 1996 Jan 20; 106(2):41–4 (Eng. Abstr.) **(Spa)**

CHEMICALLY INDUCED

Aluminium in antacids and cooking pots and the risk of hip fractures in elderly people. Cumming RG, et al. **Age Ageing** 1994 Nov;23(6):468–72

Need for evidence about fluoridation [letter] Herbison P. **Aust N Z J Public Health** 1997 Jun;21(3):344–5

Evidence on fluoridation [letter; comment] Webb PM, et al. **Aust N Z J Public Health** 1997 Jun;21(3):345–6. Comment on: Aust N Z J Public Health 1997 Apr;21(2):187–90.

CLASSIFICATION

Re: "Heterogeneity of hip fracture: age, race, sex, and geographic patterns of femoral neck and trochanteric fractures among the US elderly" [letter; comment] Levy AR, et al. **Am J Epidemiol** 1996 Oct 15;144(8):801–3. Comment on: Am J Epidemiol 1996 Apr 1;143(7):677–82.

Do severity measures explain differences in length of hospital stay? The case of hip fracture. Shwartz M, et al. **Health Serv Res** 1996 Oct;31(4):365–85

Ipsilateral proximal and shaft femoral fractures: spectrum of injury involving the femoral neck. Shuler TE, et al. **Injury** 1997 May;28(4):293–7

Intermediate-term experience of Pipkin fracture-dislocations of the hip. Marchetti ME, et al. **J Orthop Trauma** 1996; 10(7):455–61

[Injury classification and surgical approach in hip dislocations and fractures] Bauer GJ, et al. **Orthopade** 1997 Apr; 26(4):304–16 (31 ref.) (Eng. Abstr.) **(Ger)**

COMPLICATIONS

Late superior gluteal nerve palsy following posterior fracture-dislocation of the hip. Güleç A, et al. **Acta Orthop Belg** 1996 Dec;62(4):218–21

Spontaneous hip fractures, 44/872 in a prospective study. Parker MJ, et al. **Acta Orthop Scand** 1997 Aug;68(4):325–6

A population-based study on the association between dementia and hip fractures in 85-year olds. Johansson C, et al. **Aging (Milano)** 1996 Jun;8(3):189–96

The influence of family history of hip fracture on the risk of vertebral deformity in men and women: the European Vertebral Osteoporosis Study. Diaz MN, et al. **Bone** 1997 Feb;20(2):145–9

An unstable fracture dislocation of the hip due to an occult free intra-articular fragment: case report. Gakuu LN. **East Afr Med J** 1996 Sep;73(9):625–6

Dislocation of the hip following intertrochanteric fracture [letter; comment] Combalía A. **Injury** 1996 Dec; 27(10):757–8. Comment on: Injury 1995 Nov;26(9):645–6.

Femoral neck fracture following intertrochanteric fracture. Heck BE, et al. **J Arthroplasty** 1996 Oct;11(7):873–9

Total hip arthroplasty for complications of proximal femoral fractures. Tabsh I, et al. **J Orthop Trauma** 1997 Apr; 11(3):166–9

Irreducible open intertrochanteric hip fracture secondary to entrapment of the sciatic nerve in a child. Wiss DA, et al. **J Orthop Trauma** 1997 Jan;11(1):38–40 (10 ref.)

DIAGNOSIS

Stress osteopathy of the femoral head. 10 military recruits followed for 5–11 years. Visuri T. **Acta Orthop Scand** 1997 Apr;68(2):138–41

Insufficiency fracture of the femoral head: MR imaging in three patients. Rafii M, et al. **AJR Am J Roentgenol** 1997 Jan;168(1):159–63

Clinical use of the patellar-pubic percussion sign in hip trauma. Adams SL, et al. **Am J Emerg Med** 1997 Mar; 15(2):173–5

Radiology for the surgeon. Case 15. Presentation. Non-displaced intertrochanteric hip fracture (the occult hip fracture). Hodge JC. **Can J Surg** 1997 Jun;40(3):168, 184

[Hip dislocation and fractures (editorial)] Schweiberer L, et al. **Orthopade** 1997 Apr;26(4):303 **(Ger)**

ECONOMICS

Prospective payment systems and hip fracture treatment costs [see comments] Strömberg L, et al. **Acta Orthop Scand** 1997 Feb;68(1):6–12. Comment in: Acta Orthop Scand 1997 Feb;68(1):1–2.

The cost of a hip fracture. Estimates for 1,709 patients in Sweden [see comments] Zethraeus N, et al. **Acta Orthop Scand** 1997 Feb;68(1):13–7. Comment in: Acta Orthop Scand 1997 Feb;68(1):1–2.

The economic cost of hip fractures in community-dwelling older adults: a prospective study [see comments] Brainsky A, et al. **J Am Geriatr Soc** 1997 Mar;45(3):281–7. Comment in: J Am Geriatr Soc 1997 Mar;45(3):382–3.

Do we understand the true cost of hip fractures? [editorial; comment] Cooney LM Jr. **J Am Geriatr Soc** 1997 Mar; 45(3):382–3 (7 ref.). Comment on: J Am Geriatr Soc 1997 Mar;45(3):281–7.

Estimating the cost per avoided hip fracture by osteoporosis treatment in Italy. Visentin P, et al. **Maturitas** 1997 Apr; 26(3):185–92

EPIDEMIOLOGY

The risks of hip fracture in older people from private homes and institutions. Butler M, et al. **Age Ageing** 1996 Sep; 25(5):381–5

Environmental hazards and hip fractures. Parker MJ, et al. **Age Ageing** 1996 Jul;25(4):322–5

A population-based study on the association between dementia and hip fractures in 85-year olds. Johansson C, et al. **Aging (Milano)** 1996 Jun;8(3):189–96

Risk factors for hip fracture in men. Hip Fracture Study Group. Grisso JA, et al. **Am J Epidemiol** 1997 May 1; 145(9):786–93

Hip fracture incidence among elderly Asian-American populations. Lauderdale DS, et al. **Am J Epidemiol** 1997 Sep 15;146(6):502–9

Re: "Heterogeneity of hip fracture: age, race, sex, and geographic patterns of femoral neck and trochanteric fractures among the US elderly" [letter; comment] Levy AR, et al. **Am J Epidemiol** 1996 Oct 15;144(8):801–3. Comment on: Am J Epidemiol 1996 Apr 1;143(7):677–82.

Dietary factors and the incidence of hip fracture in middle-aged Norwegians. A prospective study. Meyer HE, et al. **Am J Epidemiol** 1997 Jan 15;145(2):117–23

Hospital controls versus community controls: differences in inferences regarding risk factors for hip fracture. Moritz DJ, et al. **Am J Epidemiol** 1997 Apr 1;145(7):653–60

Very low rates of hip fracture in Beijing, People's Republic of China the Beijing Osteoporosis Project. Xu L, et al. **Am J Epidemiol** 1996 Nov 1;144(9):901–7

Physical activity, functional limitations, and the risk of fall-related fractures in community-dwelling elderly. Stevens JA, et al. **Ann Epidemiol** 1997 Jan;7(1):54–61

Bone density and risk of hip fracture in men and women: cross sectional analysis. De Laet CE, et al. **BMJ** 1997 Jul 26;315(7102):221–5

The relationship between anthropometric measurements and fractures in women. Gunnes M, et al. **Bone** 1996 Oct; 19(4):407–13

Serum undercarboxylated osteocalcin is a marker of the risk of hip fracture: a three year follow-up study [see comments] Szulc P, et al. **Bone** 1996 May;18(5):487–8. Comment in: Bone 1996 Nov;19(5):565.

The impact and consequences of hip fracture in Ontario. Jaglal SB, et al. **Can J Surg** 1996 Apr;39(2):105–11

Hip fractures. Epidemiology, risk factors, falls, energy absorption, hip protectors, and prevention. Lauritzen JB. **Dan Med Bull** 1997 Apr;44(2):155–68

Bone mass and subsequent risk of hip fracture. Huang Z, et al. **Epidemiology** 1997 Mar;8(2):192–5

Risk factors for hip fracture in a Japanese cohort. Fujiwara S, et al. **J Bone Miner Res** 1997 Jul;12(7):998–1004

Markers of bone resorption predict hip fracture in elderly women: the EPIDOS Prospective Study. Garnero P, et al. **J Bone Miner Res** 1996 Oct;11(10):1531–8

Urinary incontinence: a minor risk factor for hip fractures in elderly women. Johansson C, et al. **Maturitas** 1996 Aug; 25(1):21–8

Regional variation in the incidence of hip fracture in New Zealand. Norton R, et al. **N Z Med J** 1997 Mar 14; 110(1039):78–80

Hip fractures in France: the magnitude and perspective of the problem. Baudoin C, et al. **Osteoporos Int** 1996;6 Suppl 3:1–10

The hospital burden of vertebral fracture in Europe: a study of national register sources. Johnell O, et al. **Osteoporos Int** 1997;7(2):138–44

The epidemiology of hip fracture in Asia: an update. Lau EM. **Osteoporos Int** 1996;6 Suppl 3:19–23 (58 ref.)

Epidemiology of hip fracture: the MEDOS study. Mediterranean Osteoporosis Study. Lyritis GP. **Osteoporos Int** 1996;6 Suppl 3:11–5 (19 ref.)

Hip fractures in men. Ringe JD. **Osteoporos Int** 1996;6 Suppl 3:48–51 (26 ref.)

[Rates of hip fractures in Beijing China] Liu AM, et al. **Chung Hua Liu Hsing Ping Hsueh Tsa Chih** 1996 Feb; 17(1):6–9 (Eng. Abstr.) **(Chi)**

[Incidence of hip fracture and prognosis in Ehime Prefecture] Fujimoto K, et al. **Nippon Koshu Eisei Zasshi** 1996 Jul; 43(7):532–44 (Eng. Abstr.) **(Jpn)**

[Hip fracture: a case-control study in the metropolitan region I] Valdivia G, et al. **Rev Med Chil** 1996 Feb;124(2):189–97 (Eng. Abstr.) **(Spa)**

ETIOLOGY

A mental-functional risk score for prediction of hip fracture. Ranstam J, et al. **Age Ageing** 1996 Nov;25(6):439–42

Differences in body composition between female geriatric hip fracture patients and healthy controls: body fat is more important as explanatory factor for the fracture than body weight and lean body mass. Galvard H, et al. **Aging (Milano)** 1996 Aug;8(4):282–6

Dietary factors and the incidence of hip fracture in middle-aged Norwegians. A prospective study. Meyer HE, et al. **Am J Epidemiol** 1997 Jan 15;145(2):117–23

Pattern of fall and bone mineral density measurement in hip fractures. Goh JC, et al. **Ann Acad Med Singapore** 1996 Nov;25(6):820–3

Distribution of contact force during impact to the hip. Robinovitch SN, et al. **Ann Biomed Eng** 1997 May-Jun; 25(3):499–508

Fracture of the femoral head without associated hip dislocation following low-energy trauma. A report of two cases. Mody BS, et al. **Arch Orthop Trauma Surg** 1996; 115(5):300–2

Medications and fractures [letter; comment] Byrne A. **Aust Fam Physician** 1997 Apr;26(4):475. Comment on: Aust Fam Physician 1997 Feb;26(2):115–21.

Prosthetic hip replacement for pathologic or impending pathologic fractures in myeloma. Papagelopoulos PJ, et al. **Clin Orthop** 1997 Aug;(341):192–205

Assessment of bone involvement in patients with multiple myeloma using bone densitometry. Abildgaard N, et al. **Eur J Haematol** 1996 Nov;57(5):370–6

Biomechanical considerations of hip and spine fractures in osteoporotic bone. Hayes WC, et al. **Instr Course Lect** 1997; 46:431–8 (59 ref.)

Effect of prefracture versus postfracture dietary assessment on hip fracture risk estimates. Michaelsson K, et al. **Int J Epidemiol** 1996 Apr;25(2):403–10

Pathological fracture after prophylactic reconstruction nailing of the femur. The need for distal locking. Chesser TJ, et al. **Int Orthop** 1996;20(3):190–1

Displaced subcapital fracture of the hip in transient osteoporosis of pregnancy. A case report. Fokter SK, et al. **Int Orthop** 1997;21(3):201–3

Circumstances of falls resulting in hip fractures among older people. Norton R, et al. **J Am Geriatr Soc** 1997 Sep; 45(9):1108–12

Fatigue failure of cancellous bone: a possible cause of implant migration and loosening. Taylor M, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):181–2 (18 ref.)

Risk factors for hip fracture in a Japanese cohort. Fujiwara S, et al. **J Bone Miner Res** 1997 Jul;12(7):998–1004

Bone density measurements and osteoporosis [editorial] Kanis JA. **J Intern Med** 1997 Mar;241(3):173–5

Menstrual and reproductive factors and hip fractures in post menopausal women. Parazzini F, et al. **Maturitas** 1996 Jul; 24(3):191–6

Prevention of hip fracture: a goal for the year 2000. Proceedings of the 1st Merck International Symposium on Osteoporosis. Paris, December 1, 1995. **Osteoporos Int** 1996;6 Suppl 3:1–67

Geometric characteristics of the proximal femur and hip fracture risk. Geusens P. **Osteoporos Int** 1996;6 Suppl 3:27–30 (15 ref.)

Different risk profiles for hip fractures and distal forearm fractures: a prospective study. Graafmans WC, et al. **Osteoporos Int** 1996;6(6):427–31

Vitamin D insufficiency as a determinant of hip fractures. Quesada-Gómez JM, et al. **Osteoporos Int** 1996;6 Suppl 3:42–7 (75 ref.)

The European Prospective Osteoporosis Study. Reeve J. **Osteoporos Int** 1996;6 Suppl 3:16–8

Falls and hip fracture. A reasonable basis for possibilities for prevention? Some preliminary data from the MEDOS study Mediterranean Osteoporosis Study. Allander E, et al. **Scand J Rheumatol Suppl** 1996;103:49–52; discussion 53

[Risk factors of femoral neck fractures in Oslo] Meyer HE, et al. **Tidsskr Nor Laegeforen** 1996 Sep 20;116(22):2656–9 (Eng. Abstr.) **(Nor)**

METABOLISM

Evaluation of bone turnover in postmenopause, vertebral fracture, and hip fracture using biochemical markers for bone formation and resorption. Takahashi M, et al. **J Endocrinol Invest** 1997 Mar;20(3):112–7

[Proximal femoral fractures: risk factors, bone mineral density, body composition and biochemical changes in and age-matched patients and controls] Vega EM, et al. **Medicina (B Aires)** 1996;56(4):353–62 (Eng. Abstr.) **(Spa)**

MORTALITY

The effect of hip fracture on mortality, hospitalization, and functional status: a prospective study. Wolinsky FD, et al. **Am J Public Health** 1997 Mar;87(3):398–403

Hip fracture-associated mortality reconsidered. Block JE, et al. **Calcif Tissue Int** 1997 Jul;61(1):84

Early mortality after cervical hip fractures. Levi N. **Injury** 1996 Oct;27(8):565–7

Use of severity of illness to evaluate quality of care. Mackenzie TA, et al. **Int J Qual Health Care** 1996 Apr; 8(2):125–30

Predictors of mortality after acute hip fracture. Nettleman MD, et al. **J Gen Intern Med** 1996 Dec;11(12):765–7

Hip fractures in the elderly: predictors of one year mortality. Aharonoff GB, et al. **J Orthop Trauma** 1997 Apr; 11(3):162–5

[Relationship between preoperative delay in hip fractures, postoperative complications and risk of death] Laberge A, et al. **Rev Epidemiol Sante Publique** 1997 Mar;45(1):5–12 (Eng. Abstr.) **(Fre)**

[Comparison of the quality of life before and after surgical management of pertrochanteric femoral fractures in elderly patients] Dresing K, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:983–6 (Eng. Abstr.) **(Ger)**

NURSING

[Reduced emergency care of patients with hip fractures. The Adel-reform changed the continuity of care, as intended] Zidén L, et al. **Lakartidningen** 1996 Oct 2;93(40):3478–80 **(Swe)**

PHYSIOPATHOLOGY

Accelerated bone mineral loss following a hip fracture: a prospective longitudinal study. Dirschl DR, et al. **Bone** 1997 Jul;21(1):79–82

Risk of underestimation of the bone mineral density of proximal femur. Yang RS, et al. **Bone** 1997 Mar; 20(3):295–300

Alteration in the extent of collagen I hydroxylation, isolated from femoral heads of women with a femoral neck fracture caused by osteoporosis. Köwitz J, et al. **Calcif Tissue Int** 1997 Jun;60(6):501–5

Ultrasound bone densitometry of os calcis in elderly Japanese women with hip fracture. Sakata S, et al. **Calcif Tissue Int** 1997 Jan;60(1):2–7

The relationship between loading conditions and fracture patterns of the proximal femur. Yang KH, et al. **J Biomech Eng** 1996 Nov;118(4):575–8

Bone density measurements and osteoporosis [editorial] Kanis JA. **J Intern Med** 1997 Mar;241(3):173–5

[Densitometric studies of the tensile strength of the proximal femur] Menke W, et al. **Sportverletz Sportschaden** 1996 Jun; 10(2):38–42 (Eng. Abstr.) **(Ger)**

PREVENTION & CONTROL

Prevention of hip fractures: risk factor modification. Slemenda C. **Am J Med** 1997 Aug 18;103(2A):65S–71S; discussion 71S–73S (36 ref.)

Distribution of contact force during impact to the hip. Robinovitch SN, et al. **Ann Biomed Eng** 1997 May–Jun; 25(3):499–508

Estrogens, the menopause, and osteoporosis. Kanis JA. **Bone** 1996 Nov;19(5 Suppl):185S–190S (26 ref.)

A multidimensional intervention strategy to reduce hip fracture risk in the elderly: isn't it time to act? [editorial] Boonen S. **Clin Rheumatol** 1997 Jun;16(4):340–2

Calcium intake and the incidence of forearm and hip fractures among men. Owusu W, et al. **J Nutr** 1997 Sep;127(9):1782–7

External hip protectors to prevent osteoporotic hip fractures [letter] Ekman A, et al. **Lancet** 1997 Aug 23; 350(9077):563–4

Hip fracture [letter; comment] Cummings SR, et al. **N Engl J Med** 1996 Dec 26;335(26):1994; discussion 1995–6 . Comment on: N Engl J Med 1996 Jun 6;334(23):1519–25.

Are hip fractures preventable with nutritional measures and exercise in the elderly? Burckhardt P. **Osteoporos Int** 1996; 6 Suppl 3:56–9

Prevention of secondary hyperparathyroidism and hip fracture in elderly women with calcium and vitamin D3 supplements. Chapuy MC, et al. **Osteoporos Int** 1996;6 Suppl 3:60–3 (22 ref.)

A prospective study of thiazide use and fractures in women. Feskanich D, et al. **Osteoporos Int** 1997;7(1):79–84

Late prevention of hip fractures with hormone replacement therapy. Stevenson JC. **Osteoporos Int** 1996;6 Suppl 3:64–7 (29 ref.)

The biomechanics of hip protectors. Mills NJ. **Proc Inst Mech Eng [H]** 1996;210(4):259–66

Falls and hip fracture. A reasonable basis for possibilities for prevention? Some preliminary data from the MEDOS study Mediterranean Osteoporosis Study. Allander E, et al. **Scand J Rheumatol Suppl** 1996;103:49–52; discussion 53

Treatment thresholds for preventive therapy: a simplified example of therapy for prevention of hip fractures. Cummings SR. **Scand J Rheumatol Suppl** 1996;103:101–7

Prevention of hip fractures by correcting calcium and vitamin D insufficiencies in elderly people. Meunier P. **Scand J Rheumatol Suppl** 1996;103:75–8; discussion 79–80

[Prevention with hip protectors. Biomechanical aspects in falls and hip fractures] Lauritzen JB. **Nord Med** 1996 Dec; 111(10):340–3 (15 ref.) (Eng. Abstr.) **(Dan)**

RADIOGRAPHY

Prediction of pathological subtrochanteric fractures due to metastatic lesions. Dijkstra PD, et al. **Arch Orthop Trauma Surg** 1997;116(4):221–4

An unstable fracture dislocation of the hip due to an occult free intra-articular fragment: case report. Gakuu LN. **East Afr Med J** 1996 Sep;73(9):625–6

Triradiate cartilage fracture associated with a transepiphyseal separation of the femoral head: a case report. Pina-Medina A, et al. **J Orthop Trauma** 1996;10(8):575–7

Discrepancies in normative data between Lunar and Hologic DXA systems. Faulkner KG, et al. **Osteoporos Int** 1996; 6(6):432–6

Irritable infant and left lower extremity pain. Swischuk LE. **Pediatr Emerg Care** 1997 Apr;13(2):147–8

RADIONUCLIDE IMAGING

[Evaluation of bone mass in hip fractures measuring lumbar spine and contralateral hip with bone densitometry] Muñoz A, et al. **Rev Med Chil** 1995 Sep;123(9):1122–8 (Eng. Abstr.) **(Spa)**

REHABILITATION

Social function after cervical hip fracture. A comparison of hook-pins and total hip replacement in 47 patients. Jónsson B, et al. **Acta Orthop Scand** 1996 Oct;67(5):431–4

Prospective payment systems and hip fracture treatment costs [see comments] Strömberg L, et al. **Acta Orthop Scand** 1997 Feb;68(1):6–12. Comment in: Acta Orthop Scand 1997 Feb;68(1):1–2.

Full treatment spectrum for hip fractures: operation and rehabilitation [editorial; comment] Thorngren KG. **Acta Orthop Scand** 1997 Feb;68(1):1–2. Comment on: Acta Orthop Scand 1997 Feb;68(1):6–12. Comment on: Acta Orthop Scand 1997 Feb;68(1):13–7.

What is the role of timing in the surgical and rehabilitative care of community-dwelling older persons with acute hip fracture? [see comments] [published erratum appears in Arch Intern Med 1997 Jul 14;157(13):1444] Hoenig H, et al. **Arch Intern Med** 1997 Mar 10;157(5):513–20. Comment in: Arch Intern Med 1997 Mar 10;157(5):485–6.

Posthospital setting, resource utilization, and self-care outcome in older women with hip fracture. Levi SJ. **Arch Phys Med Rehabil** 1997 Sep;78(9):973–9

Rehabilitation after hip fracture in the elderly. The Hospital for Joint Diseases Protocol. Koval KJ, et al. **Bull Hosp Jt Dis** 1997;56(1):60–2 (9 ref.)

Protocol for the rehabilitation after hip fractures in the elderly [letter] Levine AM. **Bull Hosp Jt Dis** 1997;56(2):76

Functional outcome of cognitively impaired hip fracture patients on a geriatric rehabilitation unit. Goldstein FC, et al. **J Am Geriatr Soc** 1997 Jan;45(1):35–42

A longitudinal examination of functional recovery among older people with subcapital hip fractures. Young Y, et al. **J Am Geriatr Soc** 1997 Mar;45(3):288–94

Weight bearing after hip fracture: a prospective series of 596 geriatric hip fracture patients. Koval KJ, et al. **J Orthop Trauma** 1996;10(8):526–30

Dependency after hip fracture in geriatric patients: a study of predictive factors. Koval KJ, et al. **J Orthop Trauma** 1996;10(8):531–5

Mobility in older patients with hip fractures: examining prefracture status, complications, and outcomes at discharge from the acute-care hospital. Myers AH, et al. **J Orthop Trauma** 1996;10(2):99–107

Bilateral brachial plexus compressive neuropathy (crutch palsy). Raikin S, et al. **J Orthop Trauma** 1997 Feb-Mar; 11(2):136–8

Use of standardised assessment scales in elderly hip fracture patients. Shepherd SM, et al. **J R Coll Physicians Lond** 1996 Jul-Aug;30(4):335–43

Outcomes and costs after hip fracture and stroke. A comparison of rehabilitation settings. Kramer AM, et al. **JAMA** 1997 Feb 5;277(5):396–404

Prognosis and rehabilitation after hip fracture. Obrant K. **Osteoporos Int** 1996;6 Suppl 3:52–5 (39 ref.)

SURGERY

Social function after cervical hip fracture. A comparison of hook-pins and total hip replacement in 47 patients. Jónsson B, et al. **Acta Orthop Scand** 1996 Oct;67(5):431–4

Biaxial dynamization in unstable intertrochanteric fractures. Good experience with a simplified Medoff sliding plate in 94 patients. Olsson O, et al. **Acta Orthop Scand** 1997 Aug;68(4):327–31

The prevention of complications with the Gamma Locking Nail [see comments] Lyddon DW Jr. **Am J Orthop** 1996 May;25(5):357–63 (23 ref.). Comment in: Am J Orthop 1996 Oct;25(10):729.

Postoperative magnetic resonance imaging evaluation of Pipkin fractures fixated with titanium implants: a report of two cases. Olscamp AJ, et al. **Am J Orthop** 1997 Apr; 26(4):294–7

Prevention of complications with the gamma nail [letter; comment] Rosenthal RE. **Am J Orthop** 1996 Oct;25(10):729 . Comment on: Am J Orthop 1996 May;25(5):357–63.

What is the role of timing in the surgical and rehabilitative care of community-dwelling older persons with acute hip fracture? [see comments] [published erratum appears in Arch Intern Med 1997 Jul 14;157(13):1444] Hoenig H, et al. **Arch Intern Med** 1997 Mar 10;157(5):513–20. Comment in: Arch Intern Med 1997 Mar 10;157(5):485–6.

Biomechanical validation of a new nail-plate for the repair of stable proximal femoral fractures. Ramer M, et al. **Arch Orthop Trauma Surg** 1997;116(3):137–42

Use of calcium antagonists and need for perioperative transfusion in older patients with hip fracture: observational study. Zuccalá G, et al. **BMJ** 1997 Mar 1;314(7081):643–4

A new technique for stabilization of complex intertrochanteric hip fractures. Kummer FJ, et al. **Bull Hosp Jt Dis** 1997;56(2):102–3

The use of customized long stem hemiarthroplasty in ipsilateral femoral neck and pending shaft fracture: case report. Yip KM. **Bull Hosp Jt Dis** 1996;55(2):81–2

Cardiovascular collapse after femoral prosthesis surgery for acute hip fracture. Pietak S, et al. **Can J Anaesth** 1997 Feb; 44(2):198–201

The long gamma nail: indications and results. Di Puccio G, et al. **Chir Organi Mov** 1997 Jan-Mar;82(1):49–52 **(Eng, Ita)**

Surgical treatment of pathologic hip lesions in patients with metastatic disease. Algan SM, et al. **Clin Orthop** 1996 Nov; (332):223–31

Spontaneous subcapital femoral neck fracture after healed trochanteric fracture. Buciuto R, et al. **Clin Orthop** 1997 Sep;(342):156–63

Treatment of supracondylar femoral fractures with a retrograde intramedullary nail. Gellman RE, et al. **Clin Orthop** 1996 Nov;(332):90–7

Subtrochanteric femoral fractures in children. Alignment after 90 degrees-90 degrees traction and cast application. Jeng C, et al. **Clin Orthop** 1997 Aug;(341):170–4

Fixation of segmental subtrochanteric fractures. A biomechanical study. Kraemer WJ, et al. **Clin Orthop** 1996 Nov;(332):71–9

Prosthetic hip replacement for pathologic or impending pathologic fractures in myeloma. Papagelopoulos PJ, et al. **Clin Orthop** 1997 Aug;(341):192–205

Comparison of reconstruction nails for high subtrochanteric femur fracture fixation. Wheeler DL, et al. **Clin Orthop** 1997 May;(338):231–9

Modified transverse locking nail fixation of proximal femoral fractures. Ziran BH, et al. **Clin Orthop** 1997 Jun;(339):82–91

Preoperative platelet count and postoperative blood loss in patients undergoing hip surgery: an inverse correlation. Monreal M, et al. **Haemostasis** 1996 May-Jun;26(3):164–9

Biological fixation of subtrochanteric fractures by external fixation. Dhal A, et al. **Injury** 1996 Dec;27(10):723–31

External fixation in unstable intertrochanteric fractures of femur [letter; comment] Krikler SJ. **Injury** 1996 Dec; 27(10):756. Comment on: Injury 1996 Mar;27(2):139–42.

Use of a laser guide to reduce screening time for the dynamic hip screw. Robinson AH, et al. **Injury** 1996 Dec; 27(10):713–4

Condylar plate fixation of subtrochanteric femoral fractures. van Meeteren MC, et al. **Injury** 1996 Dec;27(10):715–7

Reconstruction femoral nailing for nonunion of subtrochanteric fracture: a revision technique following dynamic condylar screw failure. Charnley GJ, et al. **Int Orthop** 1996;20(1):55–7

Gamma versus DHS nailing for extracapsular femoral fractures. Meta-analysis of ten randomised trials. Parker MJ, et al. **Int Orthop** 1996;20(3):163–8

Comparative biomechanics of the sliding screw-plate and the Bousquet nail-plate. Steriopoulos K, et al. **Int Orthop** 1996;20(1):51–4

Bilateral anterior dislocation of the hips. A case report. Terahata N, et al. **Int Orthop** 1996;20(2):125–6

Assessment of mobility and ADL dependence following hip fracture surgery [letter] van Breukelen AM, et al. **J Am Geriatr Soc** 1997 Jan;45(1):119–20

Postoperative complications and mortality associated with operative delay in older patients who have a fracture of the hip [letter; comment] Baker DM. **J Bone Joint Surg Am** 1997 Mar;79(3):470. Comment on: J Bone Joint Surg Am 1995 Oct;77(10):1551–6.

Unipolar or bipolar prosthesis for displaced intracapsular hip fracture [letter; comment] Warwick D, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):694–5. Comment on: J Bone Joint Surg Br 1996 May;78(3):391–4.

Does blood transfusion increase the risk of infection after hip fracture? Koval KJ, et al. **J Orthop Trauma** 1997 May; 11(4):260–5; discussion 265–6

Use of the Medoff sliding plate for subtrochanteric hip fractures. Kummer FJ, et al. **J Orthop Trauma** 1997 Apr; 11(3):180–2

Mobility in older patients with hip fractures: examining prefracture status, complications, and outcomes at discharge from the acute-care hospital. Myers AH, et al. **J Orthop Trauma** 1996;10(2):99–107

Dynamic condylar screw for subtrochanteric femur fractures with greater trochanteric extension. Pai CH. **J Orthop Trauma** 1996;10(5):317–22

Total hip arthroplasty for complications of proximal femoral fractures. Tabsh I, et al. **J Orthop Trauma** 1997 Apr; 11(3):166–9

Optimal side plate fixation for unstable intertrochanteric hip fractures. Yian EH, et al. **J Orthop Trauma** 1997 May; 11(4):254–9

Calcium alginate as haemostatic swabs in hip fracture surgery. Davies MS, et al. **J R Coll Surg Edinb** 1997 Feb; 42(1):31–2

Antibiotic prophylaxis: theory and reality in orthopaedics. Dougall TW, et al. **J R Coll Surg Edinb** 1996 Oct; 41(5):321–2

Biomechanical analysis of location of lag screw of a dynamic hip screw in treatment of unstable intertrochanteric fracture. Wu CC, et al. **J Trauma** 1996 Oct;41(4):699–702

Treatment of comminuted subtrochanteric fractures by dynamic hip screw. Ali M. **JPMA J Pak Med Assoc** 1995 Aug;45(8):212–5

Treatment of comminuted subtrochanteric femoral fractures in a young population with a reconstruction nail. Taylor DC, et al. **Mil Med** 1996 Dec;161(12):735–8 (30 ref.)

Hip fracture [letter; comment] Burger C, et al. **N Engl J Med** 1996 Dec 26;335(26):1995; discussion 1995–6 . Comment on: N Engl J Med 1996 Jun 6;334(23):1519–25.

Hip fracture [letter; comment] Reichert SF. **N Engl J Med** 1996 Dec 26;335(26):1994–5; discussion 1995–6. Comment on: N Engl J Med 1996 Jun 6;334(23):1519–25.

Hip challenges: what would you do? Dorr LD, et al. **Orthopedics** 1997 Sep;20(9):867–9

[Osteoporosis: assessment, prevention and treatment in Danish departments of orthopedic surgery] Eiken PA. **Ugeskr Laeger** 1996 Oct 7;158(41):5790–3 (Eng. Abstr.) **(Dan)**

[Dislocation-dissociation of a bipolar hip prosthesis] Corteel J, et al. **Acta Orthop Belg** 1996 Sep;62(3):173–6 (Eng. Abstr.) **(Fre)**

[Reconstructive nailing] Asencio G, et al. **Chirurgie** 1997; 122(3):175–7 **(Fre)**

[Relationship between preoperative delay in hip fractures, postoperative complications and risk of death] Laberge A, et al. **Rev Epidemiol Sante Publique** 1997 Mar;45(1):5–12 (Eng. Abstr.) **(Fre)**

[Proximal femoral fractures: fixation and nailing. Role of an implant fixed with a femoral head screw and nailing of the femoral diaphysis in per- and subtrochanteric fractures--results in a consecutive series of 28 Gamma long nails] Chevalley F. **Rev Med Suisse Romande** 1996 Jan; 116(1):65–70 **(Fre)**

[The dynamic hip screw with support plate--a reliable osteosynthesis for highly unstable "reverse" trochanteric fractures?] Dávid A, et al. **Chirurg** 1996 Nov;67(11):1166–73 (Eng. Abstr.) **(Ger)**

[First experiences with unreamed AO intramedullary nail in treatment of femoral shaft fractures] Stockenhuber N, et al. **Chirurg** 1997 Jul;68(7):718–26 (Eng. Abstr.) **(Ger)**

[Comparative stability evaluation of dynamic hip screw and gamma-nail osteosyntheses in unstable pertrochanteric femoral osteotomies] Kaiser W, et al. **Langenbecks Arch Chir** 1997;382(2):100–6 (Eng. Abstr.) **(Ger)**

[Experiences with the classic nail in management of per-/subtrochanteric femoral fractures in elderly patients]

Berkhoff M, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:974–6 (Eng. Abstr.) **(Ger)**

[Gamma nail osteosynthesis—progress in geriatric surgery] Domagk A, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996; 113:999–1001 (Eng. Abstr.) **(Ger)**

[The gliding nail. A new implant for complication-free primary load-bearing management of per- and subtrochanteric femoral fractures] Friedl W.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:970–3 (Eng. Abstr.) **(Ger)**

[Fractures of the lower extremity—including femoral neck fractures—in advanced age] Hax PM.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:1002–3 (Eng. Abstr.) **(Ger)**

[Efficacy of intramedullary stabilization of pathologic femoral shaft fractures] Holmenschlager F, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:987–90 (Eng. Abstr.) **(Ger)**

[Full weight bearing after gamma nail osteosynthesis] Kirchgesser G, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:994–5 **(Ger)**

[Current issues regarding fracture treatment in elderly patients] Pieske O, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:960–2 (Eng. Abstr.) **(Ger)**

[Prognostic significance of surgical morbidity in management of coxal femoral fracture in the elderly patient] Raunest J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:977–80 (Eng. Abstr.) **(Ger)**

[Pertrochanteric femoral fracture in elderly patients—injury pattern and management with gamma nailing] Ruland WO.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:996–8 (Eng. Abstr.) **(Ger)**

[Advantage of load-bearing osteosynthesis of pertrochanteric fractures in geriatric traumatology] Schwämmle K, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:967–9 (Eng. Abstr.) **(Ger)**

[Extra-articular proximal femur fracture in the elderly—dynamic hip screw or intramedullary hip screw for fracture management?] Wagner R, et al.
Langenbecks Arch Chir Suppl Kongressbd 1996;113:963–6 (Eng. Abstr.) **(Ger)**

[Treatment of war injuries of the trochanter area by external fixation] Pukljak D. **Unfallchirurg** 1997 Jan;100(1):50–5 (Eng. Abstr.) **(Ger)**

[Surgical results of per- and subtrochanteric femoral fractures. An overview of 15 years] Krause D, et al.
Z Arztl Fortbild (Jena) 1995 Dec;89(8):833–8 (Eng. Abstr.) **(Ger)**

[Living conditions and mortality in the elderly after surgical management of para-articular hip fractures] Reich I, et al.
Z Gerontol Geriatr 1997 Jan-Feb;30(1):18–23 (Eng. Abstr.) **(Ger)**

[Selective subarachnoid anesthesia for intervention for hip fracture] Porcelli P, et al. **Minerva Anestesiol** 1996 Nov; 62(11):357–61 (Eng. Abstr.) **(Ita)**

[Personal results in the surgical treatment of pertrochanteric fractures] Maričević A, et al. **Lijec Vjesn** 1996 May-Jun; 118(5–6):110–3 (Eng. Abstr.) **(Scr)**

[Demonstration of articular tuberculosis by the polymerase chain reaction and hybridization on synovial membrane samples [letter] Quirós E, et al.
Enferm Infecc Microbiol Clin 1995 Dec;13(10):633 **(Spa)**

THERAPY

Clinical outcomes and treatment of hip fractures. Lyons AR. **Am J Med** 1997 Aug 18;103(2A):51S–63S; discussion 63S–64S (108 ref.)

Hip fracture outcomes [editorial; comment] Cooney LM Jr. **Arch Intern Med** 1997 Mar 10;157(5):485–6. Comment on: Arch Intern Med 1997 Mar 10;157(5):513–20.

Home exercise to improve strength and walking velocity after hip fracture: a randomized controlled trial. Sherrington C, et al. **Arch Phys Med Rehabil** 1997 Feb; 78(2):208–12

Irreducible intertrochanteric fractures of the femur. Moehring HD, et al. **Clin Orthop** 1997 Jun;(339):197–9

A ten years analysis of 500 intertrochantric fractures of the femur with impression to residual deformity and shortening. Meena RC, et al. **Indian J Med Sci** 1995 Jun; 49(6):135–8

Outcome assessment after fracture in the elderly. Skovron ML, et al. **Instr Course Lect** 1997;46:439–43 (19 ref.)

The cost of treating hip fractures in the twenty-first century: short report. Hollingworth W, et al. **Osteoporos Int** 1996; 6 Suppl 2:13–5

[Treatment of Pipkin fractures] Nast-Kolb D, et al.
Orthopade 1997 Apr;26(4):360–7 (24 ref.) (Eng. Abstr.) **(Ger)**

VETERINARY

Risk factors associated with development of pelvic canal stenosis secondary to sacroiliac separation: 84 cases (1985–1995). Averill SM, et al. **J Am Vet Med Assoc** 1997 Jul 1;211(1):75–8

What is your diagnosis? Physeal fractures of the caput, greater trochanter and distal portion of the femur in a dog. Clary EM, et al. **J Am Vet Med Assoc** 1996 Oct 15; 209(8):1391–2

What is your diagnosis? Herniation of the small intestine through the dorsal lumbar musculature, multiple pelvic fractures, sacroiliac subluxation, and a right craniodorsal coxofemoral luxation. Hawthorne JC, et al.
J Am Vet Med Assoc 1997 Jul 1;211(1):33–4

Repair of femoral trochanteric osteotomy in the dog. Whitelock RG, et al. **J Small Anim Pract** 1997 May; 38(5):195–9

HIP JOINT

Bilateral tuberculous infection of replaced hips—reactivation 54 years after infection in one knee. Carlsson AS, et al. **Acta Orthop Scand** 1997 Feb;68(1):74–6

Symptomatic herniation pits of the femoral neck: anatomic and clinical study. Daenen B, et al.
AJR Am J Roentgenol 1997 Jan;168(1):149–53

Transient synovitis of the hip in children. Hart JJ.
Am Fam Physician 1996 Oct;54(5):1587–91, 1595–6 (20 ref.)

Ultrasonography in the management of painful hips in children. Nimityongskul P, et al. **Am J Orthop** 1996 Jun; 25(6):411–4

Spontaneous resolution of soft-tissue interposition after closed reduction of hip endoprosthesis dislocation. Simonian PT, et al. **Am J Orthop** 1996 Sep;25(9):642–4

Pyogenic arthritis of the hip following an occult open fracture of the pubic rami—a case report. Thiagarajan P, et al. **Ann Acad Med Singapore** 1996 Jul;25(4):590–1

Iliacus pyomyositis mimicking septic arthritis of the hip joint. Chen W-S, et al. **Arch Orthop Trauma Surg** 1996; 115(3–4):233–5

Chondrosarcoma secondary to synovial chondromatosis. Report of two cases and a review of the literature. Wuisman PI, et al. **Arch Orthop Trauma Surg** 1997;116(5):307–11 (20 ref.)

Traction versus distension for distraction of the joint during hip arthroscopy. Byrd JW, et al. **Arthroscopy** 1997 Jun; 13(3):346–9

Labral lesions: an elusive source of hip pain case reports and literature review. Byrd JW. **Arthroscopy** 1996 Oct; 12(5):603–12 (19 ref.)

Neuropathy secondary to pigmented villonodular synovitis of the hip. Aboulafia AJ, et al. **Clin Orthop** 1996 Apr; (325):174–80 (19 ref.)

Rapidly destructive arthropathy of the hip in siblings. Hasegawa Y, et al. **Clin Orthop** 1997 Mar;(336):152–5

Sensitivity of objective parameters in the diagnosis of pediatric septic hips. Klein DM, et al. **Clin Orthop** 1997 May;(338):153–9

Transient osteoporosis and osteogenesis imperfecta. A case report. Noorda RJ, et al. **Clin Orthop** 1997 Apr; (337):249–55 (48 ref.)

Evaluation of hip stability after simulated transverse acetabular fractures. Thomas KA, et al. **Clin Orthop** 1997 Jul;(340):244–56

"Gallstone hip" and other sequelae of retained gallstones. Chin PT, et al. **HPB Surg** 1997;10(3):165–8

Rotational problems in children. Staheli LT.
Instr Course Lect 1994;43:199–209 (91 ref.)

The pattern of health care utilization of elderly people with arthritic pain in the hip or knee. Hopman-Rock M, et al.
Int J Qual Health Care 1997 Apr;9(2):129–37

Prevention of heterotopic ossification about the hip: final results of two randomized trials in 410 patients using either preoperative or postoperative radiation therapy. Seegenschmiedt MH, et al.
Int J Radiat Oncol Biol Phys 1997 Aug 1;39(1):161–71

Displaced subcapital fracture of the hip in transient osteoporosis of pregnancy. A case report. Fokter SK, et al. **Int Orthop** 1997;21(3):201–3

Massive osteolysis induced by high molecular weight polyethylene wear debris. Nizegorodcew T, et al.
Int Orthop 1997;21(1):14–8

Five-year longitudinal study on limited food consumption and development of osteoarthritis in coxofemoral joints of dogs. Kealy RD, et al. **J Am Vet Med Assoc** 1997 Jan 15;210(2):222–5

Femoral lengthening after type IVB septic arthritis of the hip in children. Cheng JC, et al. **J Pediatr Orthop** 1996 Jul-Aug;16(4):533–9

Surgical correction of "functional retroversion" and "functional coxa vara" in late Legg-Calvé-Perthes disease and epiphyseal dysplasia: correction of deformity defined by new imaging modalities. Kim HT, et al.
J Pediatr Orthop 1997 Mar-Apr;17(2):247–54

Genu valgum in children with coxa vara resulting from hip disease. Shim JS, et al. **J Pediatr Orthop** 1997 Mar-Apr; 17(2):225–9

Hip configuration and function in bladder exstrophy treated without pelvic osteotomy. Nordin S, et al.
J Pediatr Orthop B 1996 Spring;5(2):119–22

Hip ganglion: case report and review of the literature. Golledge J, et al. **J R Coll Surg Edinb** 1996 Dec;41(6):405–7 (6 ref.)

Recommendations for a core set of outcome measures for future phase III clinical trials in knee, hip, and hand osteoarthritis. Consensus development at OMERACT III. Bellamy N, et al. **J Rheumatol** 1997 Apr;24(4):799–802 (6 ref.)

Which diagnostic criteria for bursitis of the iliopsoas? [letter; comment] Goupille P, et al. **J Rheumatol** 1996 Oct; 23(10):1828. Comment on: J Rheumatol 1995 Oct;22(10):1971–3.

The algofunctional indices for hip and knee osteoarthritis. Lequesne MG. **J Rheumatol** 1997 Apr;24(4):779–81

A large ganglion cyst in a patient with hip dysplasia. DiMaio FR, et al. **Orthopedics** 1997 Jul;20(7):650–2

Septic arthritis of the hip in an adult following repeated femoral venipuncture. Fromm SE, et al. **Orthopedics** 1996 Dec;19(12):1047–8

Ro 15–8081 in osteoarthritis of hip and knee: a double-blind placebo-controlled multicentre dose-ranging study on analgesia. Bolnot-Delmas D, et al. **Pain** 1996 Jan; 64(1):99–105

Three common causes of childhood hip pain. Koop S, et al. **Pediatr Clin North Am** 1996 Oct;43(5):1053–66 (23 ref.)

Metal-on-metal articulation for artificial hip joints: laboratory study and clinical results. Streicher RM, et al. **Proc Inst Mech Eng [H]** 1996;210(3):223–32

Tumoural calcinosis. Franceschi F, et al. **Trop Doct** 1997 Oct;27(4):247

[Synovial cyst of the hip: a rare cause of iliac vein compression] De Smedt M, et al. **Acta Orthop Belg** 1996 Dec;62(4):238–40 (5 ref.) (Eng. Abstr.) **(Fre)**

[Synovial chondromatosis and chondrosarcoma. A study of the relationship between these two diseases] Anract P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(3):216–24 (Eng. Abstr.) **(Fre)**

[Enlargement plasty of the acetabulum by vascularized iliac crest cartilage transfer in children] Clément JL, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(7):636–42 (Eng. Abstr.) **(Fre)**

[Percutaneous drainage of septic hip arthritis in children] Griffet J, et al.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(3):251–54 (Eng. Abstr.) **(Fre)**

[Ultrasonography in the diagnostic approach of septic arthritis] Mnif J, et al.
Rev Chir Orthop Reparatrice Appar Mot 1997;83(2):148–55 (Eng. Abstr.) **(Fre)**

[Hip in arthrogryposis multiplex congenita] Södergard J.
Rev Chir Orthop Reparatrice Appar Mot 1996;82(5):403–9 (Eng. Abstr.) **(Fre)**

[Painful hip in children—a differentiated view of coxitis fugax] Benthien JP. **Z Orthop Ihre Grenzgeb** 1997 May-Jun; 135(3):Oa7–10 **(Ger)**

[Septic arthritis in newborns and infants. Treatment of hip arthritis] Lejman T, et al.
Chir Narzadow Ruchu Ortop Pol 1996;61(6):567–77 (Eng. Abstr.) **(Pol)**

[The diagnosis and treatment of anserine and trochanteric bursitis] Grigor'eva VD, et al. **Ter Arkh** 1997;69(5):61–3 **(Rus)**

ABNORMALITIES

Hip abnormalities detected by ultrasound [letter; comment] Dodenhoff RM. **J Bone Joint Surg Br** 1997 Mar;79(2):342 . Comment on: J Bone Joint Surg Br 1996 Jul;78(4):636–40.

ANATOMY & HISTOLOGY

Increased incidence of arthrosis in women could be related to femoral and pelvic shape. Kersnič B, et al.
Arch Orthop Trauma Surg 1997;116(6–7):345–7

Hip joint congruence: experimental studies. Neusel E, et al.
Arch Orthop Trauma Surg 1996;115(6):321–4

Anatomical study of the synovial plicae of the hip joint. Fu Z, et al. **Clin Anat** 1997;10(4):235–8

The hip joint as a conchoid shape. Menschik F.
J Biomech 1997 Sep;30(9):971–3

The structure of avian cartilage: a combined X-ray and biochemical analysis. Wess TJ, et al. **J Comp Pathol** 1997 Feb;116(2):145–55

High resolution MR imaging of the bilateral hips with dual phased-array coil. Niitsu M, et al.
J Magn Reson Imaging 1996 Nov-Dec;6(6):950–3

Discussion on the design of a hip joint simulator. Viceconti M, et al. **Med Eng Phys** 1996 Apr;18(3):234–40 (20 ref.)

Determination of the femoral and pelvic geometrical parameters that are important for the hip joint contact stress: differences between female and male. Kersnič B, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R207–8

Hip axis length measurement using dual-energy X-ray absorptiometry. Roux C, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):243–8

The supra-acetabular line [letter; comment] Stoker DJ. **Skeletal Radiol** 1997 Mar;26(3):199. Comment on: Skeletal Radiol 1996 Aug;25(6):525–9.

[Three-dimensional computer reconstruction of the pelvic and hip area in the preoperative planning of orthopedic interventions and surgical simulation] Kurth A, et al.
Z Orthop Ihre Grenzgeb 1997 Mar-Apr;135(2):120–3 (Eng. Abstr.) **(Ger)**

[The anatomicofunctional characteristics of the hip joint] Shatsillo OI, et al. **Morfologiia** 1996;110(6):112–5 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

[The effect of traction treatment on blood flow in the immature hip—an animal study] Stücker R, et al.
Z Orthop Ihre Grenzgeb 1996 Jul-Aug;134(4):332–6 (Eng. Abstr.) **(Ger)**

CYTOLOGY

Structural peculiarities of the tissue formed in modelling of the articular surface. Shevtsov VI, et al. **Bull Hosp Jt Dis** 1997;56(2):91-4

DRUG EFFECTS

A systematic review of randomized controlled trials of pharmacological therapy in osteoarthritis of the hip. Towheed TE, et al. **J Rheumatol** 1997 Feb;24(2):349-57

EMBRYOLOGY

Vascularization of the hip joint in the human fetuses. Jędral T, et al. **Folia Morphol (Warsz)** 1996;55(4):293-4

[Embryology of the human hip] Uhthoff HK, et al. **Orthopade** 1997 Jan;26(1):2-6 (Eng. Abstr.) **(Ger)**

[Standard values for the intrauterine ultrasonography of hip joint development (published erratum appears in Z Orthop Ihre Grenzgeb 1996 Nov-Dec;134(6):487)] Wagner UA, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul-Aug;134(4):337-40 (Eng. Abstr.) **(Ger)**

GROWTH & DEVELOPMENT

[Age-related force distribution at the proximal end of the femur in normally growing children] Heimkes B, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb;135(1):17-23 (Eng. Abstr.) **(Ger)**

[Dysplasia and therapy factors in hip developmental disorders (news)] Matthiessen HD. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb;135(1):Oa12-3 **(Ger)**

INJURIES

Clinical use of the patellar-pubic percussion sign in hip trauma. Adams SL, et al. **Am J Emerg Med** 1997 Mar; 15(2):173-5

A new technique for removal of intraarticular bullet fragments from the femoral head. Williams MS, et al. **Bull Hosp Jt Dis** 1997;56(2):107-10

Bilateral anterior dislocation of the hips. A case report. Terahata N, et al. **Int Orthop** 1996;20(2):125-6

Articular penetration is more likely in Garden-I fractures of the hip. Hernigou P, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):285-8

INNERVATION

Surgical maneuvers placing the sciatic nerve at risk during total hip arthroplasty as assessed by somatosensory evoked potential monitoring. Pereles TR, et al. **J Arthroplasty** 1996 Jun;11(4):438-44

Response of cat cortical neurons to position and movement of the femur. Aloisi AM, et al. **Somatosens Mot Res** 1996; 13(3-4):263-71

METABOLISM

Loss of bone mineral of the hip assessed by DEXA following tibial shaft fractures. Petersen MM, et al. **Bone** 1997 May; 20(5):491-5

Stromelysin, gelatinase A and TIMP-1 in prosthetic interface tissue: a role for macrophages in tissue remodelling. Hembry RM, et al. **Histopathology** 1995 Aug;27(2):149-59

Symmetry of bone mineral density in the hips is not affected by age. Yang RS, et al. **Nucl Med Commun** 1996 Aug; 17(8):711-6

MICROBIOLOGY

The association of primary varicella infection and streptococcal infection of the cutaneous and musculoskeletal system: a case report. Poon AH, et al. **Magn Reson Imaging** 1997;15(1):131-3

PATHOLOGY

Ochronotic arthropathy: the black hip. Case report and review of the literature. Dom K, et al. **Acta Orthop Belg** 1997 Jun;63(2):122-5 (5 ref.)

MR imaging measurement of the femoral antetorsional angle as a new technique: comparison with CT in children and adults. Tomczak RJ, et al. **AJR Am J Roentgenol** 1997 Mar;168(3):791-4

Magnetic resonance imaging in osteoarthrosis of the dysplastic hip. Hasegawa Y, et al. **Arch Orthop Trauma Surg** 1996;115(5):243-8

Development and clinical application of a flexible arthroscopy system. Takahashi T, et al. **Arthroscopy** 1997 Feb;13(1):42-50

Radiology for the surgeon. Case 15. Presentation. Non-displaced intertrochanteric hip fracture (the occult hip fracture). Hodge JC. **Can J Surg** 1997 Jun;40(3):168, 184

Surgical treatment of pathologic hip lesions in patients with metastatic disease. Algan SM, et al. **Clin Orthop** 1996 Nov; (332):223-31

The cerebral palsied hip. Black BE, et al. **Clin Orthop** 1997 May;(338):42-51

A retrospective study of canine hip dysplasia in 116 military working dogs. Part I: Angle measurements and orthopedic foundation for animals (OFA) grading. Banfield CM, et al. **J Am Anim Hosp Assoc** 1996 Sep-Oct;32(5):413-22

Collection of surgical specimens in total joint arthroplasty. Is routine pathology cost effective? Campbell ML, et al. **J Arthroplasty** 1997 Jan;12(1):60-3

Heterogeneity in cellular and cytokine profiles from multiple samples of tissue surrounding revised hip prostheses. Goodman SB, et al. **J Biomed Mater Res** 1996 Jul; 31(3):421-8

Narrowing of the joint space of the hip after traumatic shortening of the femur. Hung SC, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):718-21

MR finding of primary amyloid arthropathy associated with multiple myeloma. Shim JC, et al. **J Comput Assist Tomogr** 1997 Sep-Oct;21(5):800-2

MRI in late sequelae of Perthes' disease: imaging findings and symptomatology in ten hips. Lahdes-Vasama TT, et al. **Pediatr Radiol** 1996 Sep;26(9):640-5

Current concepts of MR arthrography of the hip. Petersilge CA. **Semin Ultrasound CT MR** 1997 Aug;18(4):291-301 (37 ref.)

Magnetic resonance imaging of dialysis-related amyloidosis of the shoulder and hip. Escobedo EM, et al. **Skeletal Radiol** 1996 Jan;25(1):41-8

Ischemic necrosis of the entire femoral head and rapidly destructive hip disease: potential causative relationship. Ryu KN, et al. **Skeletal Radiol** 1997 Mar;26(3):143-9

Magnetic resonance imaging of labral cysts of the hip. Schnarkowski P, et al. **Skeletal Radiol** 1996 Nov; 25(8):733-7

Controversies in magnetic resonance imaging of the hip. MacDougall L, et al. **Top Magn Reson Imaging** 1996 Feb; 8(1):44-50 (27 ref.)

PHYSIOLOGY

Dynamics of hip joint remodeling after Chiari osteotomy. 10 patients with neuromuscular disease followed for 8 years. Osebold WR, et al. **Acta Orthop Scand** 1997 Apr; 68(2):128-32

Direct comparison of contact areas, contact stress and subchondral mineralization in human hip joint specimens. von Eisenhart-Rothe R, et al. **Anat Embryol (Berl)** 1997 Mar;195(3):279-88

Osteoarthrosis of the hip in women and its relation to physical load at work and in the home. Vingård E, et al. **Ann Rheum Dis** 1997 May;56(5):293-8

Hip and ankle range of motion in elite classical ballet dancers and controls. Khan K, et al. **Clin J Sport Med** 1997 Jul; 7(3):174-9

Hip joint forces during load carrying. Bergmann G, et al. **Clin Orthop** 1997 Feb;(335):190-201

A marker-free method for tracking human lower limb segments based on model matching. Persson T. **Int J Biomed Comput** 1996 Apr;41(2):87-97 (10 ref.)

Impacted particulate allograft for femoral revision total hip arthroplasty. In vitro mechanical stability and effects of cement pressurization. Berzins A, et al. **J Arthroplasty** 1996 Aug;11(5):500-6

Demographic biases found in scoring instruments of total hip arthroplasty. Brinker MR, et al. **J Arthroplasty** 1996 Oct;11(7):820-30

Effect of superior and superolateral relocations of the hip center on hip joint forces. An experimental and analytical analysis. Doehring TC, et al. **J Arthroplasty** 1996 Sep; 11(6):693-703

Correlation of measured range of hip motion following total hip arthroplasty and responses to a questionnaire. McGrory BJ, et al. **J Arthroplasty** 1996 Aug;11(5):565-71

Statically equivalent load and support conditions produce different hip joint contact pressures and periacetabular strains. Bay BK, et al. **J Biomech** 1997 Feb;30(2):193-6

Stepping over an obstacle increases the motions and moments of the joints of the trailing limb in young adults. Chou LS, et al. **J Biomech** 1997 Apr;30(4):331-7

A method for inverse dynamic analysis using accelerometry. van den Bogert A, et al. **J Biomech** 1996 Jul;29(7):949-54

Effects of joint motion constraints on the gait of normal subjects and their implications on the further development of hybrid FES orthosis for paraplegic persons. Yang L, et al. **J Biomech** 1996 Feb;29(2):217-26

Predicting the impact response of a nonlinear single-degree-of-freedom shock-absorbing system from the measured step response. Robinovitch SN, et al. **J Biomech Eng** 1997 Aug;119(3):221-7

Can Trendelenburg's sign be positive if the hip is normal? Vasudevan PN, et al. **J Bone Joint Surg Br** 1997 May; 79(3):462-6

Dynamic pelvic stabilization during hip flexion: a comparison study. Elia DS, et al. **J Orthop Sports Phys Ther** 1996 Jul; 24(1):30-6

A new pelvic tilt detection device: roentgenographic validation and application to assessment of hip motion in professional ice hockey players. Tyler T, et al. **J Orthop Sports Phys Ther** 1996 Nov;24(5):303-8

The effect of variable size posterior wall acetabular fractures on contact characteristics of the hip joint. Olson SA, et al. **J Orthop Trauma** 1996;10(6):395-402

Loss of hip motion in slipped capital femoral epiphysis: a calculation from the slipping angle and the slope. Jerre R, et al. **J Pediatr Orthop B** 1996 Summer;5(3):144-50

Sensitivity of femoral strain pattern analyses to resultant and muscle forces at the hip joint. Lengsfeld M, et al. **Med Eng Phys** 1996 Jan;18(1):70-8

Discussion on the design of a hip joint simulator. Viceconti M, et al. **Med Eng Phys** 1996 Apr;18(3):234-40 (20 ref.)

High- and low-bar squatting techniques during weight-training. Wretenberg P, et al. **Med Sci Sports Exerc** 1996 Feb;28(2):218-24

Effects of speed and different types of treadmill on the range of motion of the lower extremities. Shih J, et al. **Percept Mot Skills** 1997 Jun;84(3 Pt 2):1399-402

Stress distribution on the hip joint articular surface during gait. Ipavec M, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R275-6

Determination of the femoral and pelvic geometrical parameters that are important for the hip joint contact stress: differences between female and male. Kersnič B, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R207-8

Wear of ultra-high molecular weight polyethylene acetabular cups in a physiological hip joint simulator in the anatomical position using bovine serum as a lubricant. Bigsby RJ, et al. **Proc Inst Mech Eng [H]** 1997;211(3):265-9

The importance of multidirectional motion on the wear of polyethylene. Bragdon CR, et al. **Proc Inst Mech Eng [H]** 1996;210(3):157-65

A three-axis hip joint simulator for wear and friction studies on total hip prostheses [see comments] Saikko VO. **Proc Inst Mech Eng [H]** 1996;210(3):175-85. Comment in: Proc Inst Mech Eng [H] 1996 ;210(3):137-40.

The validity and reliability of the back saver sit-and-reach test in middle school girls and boys. Patterson P, et al. **Res Q Exerc Sport** 1996 Dec;67(4):448-51

Hip stress during lifting with bent and straight knees. Luepongsak N, et al. **Scand J Rehabil Med** 1997 Mar; 29(1):57-64

[Controversial rotation function of certain muscles in the hip joint] Reimann R, et al. **Anat Anz** 1996 Aug;178(4):353-9 (Eng. Abstr.) **(Ger)**

[The biomechanics of the hip joint using new diagnostic aspects in the field of hip joint dysplasia. Constructive criticism of hip dysplasia diagnosis and present marketable breeding methods with an outlook on future perspectives and possibilities. Part I] Schawalder P, et al. **Schweiz Arch Tierheilkd** 1996;138(11):511-22 (0 ref.) (Eng. Abstr.) **(Ger)**

[The anatomicofunctional characteristics of the hip joint] Shatsillo OI, et al. **Morfologiia** 1996;110(6):112-5 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Intracapsular pressure and loosening of hip prostheses. Preoperative measurements in 18 hips. Robertsson O, et al. **Acta Orthop Scand** 1997 Jun;68(3):231-4

Effects of leg length discrepancies on the forces at the hip joint. Brand RA, et al. **Clin Orthop** 1996 Dec;(333):172-80

Biomechanics of the hip joint and the effects of fracture of the acetabulum. Olson SA, et al. **Clin Orthop** 1997 Jun; (339):92-104 (26 ref.)

Body composition and muscle strength in women scheduled for a knee or hip replacement. A comparative study of two groups of osteoarthritic women. Madsen OR, et al. **Clin Rheumatol** 1997 Jan;16(1):39-44

Ankle trauma significantly impairs posture control--a study in basketball players and controls. Perrin PP, et al. **Int J Sports Med** 1997 Jul;18(5):387-92

Changes in bone mineral density around a stable uncemented total hip arthroplasty. Korovessis P, et al. **Int Orthop** 1997; 21(1):30-4

Total hip arthroplasty for arthodesed hips [letter; comment] Delaunay C. **J Arthroplasty** 1996 Jun;11(4):487. Comment on: J Arthroplasty 1995 Aug;10(4):529-31.

Can the western Ontario and McMaster Universities (WOMAC) osteoarthritis index be used to evaluate different hip joints in the same patient? McGrory BJ, et al. **J Arthroplasty** 1996 Oct;11(7):841-4

Intracapsular pressure and pain in coxarthrosis. Robertsson O, et al. **J Arthroplasty** 1995 Oct;10(5):632-5

Hip impact velocities and body configurations for voluntary falls from standing height. van den Kroonenberg AJ, et al. **J Biomech** 1996 Jun;29(6):807-11

Kinematics and dynamic stability of the locomotion of post-polio patients. Hurmuzlu Y, et al. **J Biomech Eng** 1996 Aug;118(3):405-11

Physical and psychosocial disability in elderly subjects in relation to pain in the hip and/or knee. Hopman-Rock M, et al. **J Rheumatol** 1996 Jun;23(6):1037-44

A placebo controlled double blind trial to evaluate the effectiveness of pulsed short wave therapy for osteoarthritic hip and knee pain [see comments] Moffett JA, et al. **Pain** 1996 Sep;67(1):121-7. Comment in: Pain 1997 Jun;71(2):207.

Quality of life in elderly subjects with pain in the hip or knee. Hopman-Rock M, et al. **Qual Life Res** 1997 Jan; 6(1):67-76

Osteonecrosis of the hip in renal transplant recipients. Changes in functional status and magnetic resonance imaging findings over three years in three hundred five patients. Le Parc JM, et al. **Rev Rhum Engl Ed** 1996 Jun; 63(6):413-20

Lumbar-hip flexion motion. A comparative study between asymptomatic and chronic low back pain in 18- to 36-year-old men. Porter JL, et al. **Spine** 1997 Jul 1; 22(13):1508-13; discussion 1513-4

The effect of triple pelvic osteotomy on hip force in dysplastic dogs: a theoretical analysis. Dejardin LM, et al. **Vet Surg** 1996 Mar-Apr;25(2):114-20

[The biomechanical characteristics of the hip joint during endoprosthesis] Neverov VA, et al.

Vestn Khir Im I I Grek 1995;154(4–6):38–42 (Eng. Abstr.) **(Rus)**

RADIOGRAPHY

Radiographic patterns and response to corticosteroid hip injection. Plant MJ, et al. **Ann Rheum Dis** 1997 Aug; 56(8):476–80

Rapid destructive osteo–arthritis of the hip. Schubert F, et al. **Australas Radiol** 1997 Aug;41(3):311–3

Quantitative radiography in osteoarthritis: computerized measurement of radiographic knee and hip joint space. Conrozier T, et al. **Baillieres Clin Rheumatol** 1996 Aug; 10(3):429–33 (13 ref.)

Radiographic variables in normal and osteoarthritic hips. Laforgia R, et al. **Bull Hosp Jt Dis** 1996;54(4):215–21

Need for radiologists to interpret orthopedic total joint radiographs [letter; comment] Hobbs BB, et al. **Can J Surg** 1997 Apr;40(2):147–8; discussion 150–1. Comment on: Can J Surg 1996 Oct;39(5):393–6.

Radiology for the surgeon. Case 15. Presentation. Non–displaced intertrochanteric hip fracture (the occult hip fracture). Hodge JC. **Can J Surg** 1997 Jun;40(3):168, 184

Interpretation by radiologists of orthopedic total joint radiographs: is it necessary or cost–effective? [see comments] Nayak KN, et al. **Can J Surg** 1996 Oct; 39(5):393–6. Comment in: Can J Surg 1997 Apr;40(2):147–8; discussion 150–1. Comment in: Can J Surg 1997 Apr;40(2):148–50; discussion 150–1.

Need for radiologists to interpret orthopedic total joint radiographs [letter; comment] Stolberg HO, et al. **Can J Surg** 1997 Apr;40(2):148–50; discussion 150–1. Comment on: Can J Surg 1996 Oct;39(5):393–6.

Case report: tumoral pseudogout of the hip joint. Coral A, et al. **Clin Radiol** 1996 Dec;51(12):889–91

X–ray transparency interpositions after reduction of traumatic dislocations of the hip in children. Gennari JM, et al. **Eur J Pediatr Surg** 1996 Oct;6(5):288–93

Synovial fluid cavitation during distraction radiography of the coxofemoral joint in dogs. LaFond E, et al. **J Am Vet Med Assoc** 1997 May 1;210(9):1294–7

A review of the progress in canine hip dysplasia control in Britain [see comments] Willis MB. **J Am Vet Med Assoc** 1997 May 15;210(10):1480–2. Comment in: J Am Vet Med Assoc 1997 May 15;210(10):1417–8.

Femoral cortical remodeling after uncemented total hip arthroplasty. A prospective radiologic study of 26 hips followed for 2 to 4 years. Adolphson P. **J Arthroplasty** 1997 Jan;12(1):99–105

Appositional bone bridging of primary gaps in the dome area of uncemented, porous acetabular components [letter] Benjamin JB. **J Arthroplasty** 1996 Sep;11(6):761

Measurement accuracy in acetabular cup wear. Three retrospective methods compared with Roentgen stereophotogrammetry. Ilchmann T, et al. **J Arthroplasty** 1995 Oct;10(5):636–42

Scandinavian multicenter porous coated anatomic total hip arthroplasty study. Clinical and radiographic results with 7– to 10–year follow–up evaluation. Malchau H, et al. **J Arthroplasty** 1997 Feb;12(2):133–48

Measurement of polyethylene wear in acetabular components inserted with and without cement. A randomized trial. Devane PA, et al. **J Bone Joint Surg Am** 1997 May; 79(5):682–9

Radiological and survival comparison of four methods of fixation of a proximal femoral stem. Donnelly WJ, et al. **J Bone Joint Surg Br** 1997 May;79(3):351–60

RSA in the assessment of aseptic loosening [editorial; comment] Nilsson KG, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):1–3. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):682.

Total hip prosthesis metal–artifact suppression using iterative deblurring reconstruction. Robertson DD, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):293–8

Diagnosis of trochanteric bursitis versus femoral neck stress fracture. Jones DL, et al. **Phys Ther** 1997 Jan;77(1):58–67

From the RSNA refresher courses. Total hip arthroplasty: radiographic evaluation. Manaster BJ. **Radiographics** 1996 May;16(3):645–60 (16 ref.)

Imaging of total hip replacement. Weissman BN. **Radiology** 1997 Mar;202(3):611–23 (96 ref.)

Sensitivity to change of various techniques for measuring radiologic severity of hip osteoarthritis. Conrozier T, et al. **Rev Rhum Engl Ed** 1995 Dec;62(11):811–12

Destructive gouty arthritis of the hip [letter] Javier RM, et al. **Rev Rhum Engl Ed** 1997 Apr;64(4):279–80

Reliability of radiographic grading of osteoarthritis of the hip and knee. Sun Y, et al. **Scand J Rheumatol** 1997; 26(3):155–65 (38 ref.)

Absence or interruption of the supra–acetabular line: a subtle plain film indicator of hip pathology [see comments] Major NM, et al. **Skeletal Radiol** 1996 Aug;25(6):525–9. Comment in: Skeletal Radiol 1997 Mar;26(3):199.

Observer variation in the detection of acetabular bone deficiencies. Wenz JF, et al. **Skeletal Radiol** 1997 May; 26(5):272–8

Clinical and radiographic evaluation of intertrochanteric osteotomy in dogs: a retrospective study of 18 dogs. Evers P, et al. **Vet Surg** 1997 May–Jun;26(3):217–22

[Correlation between ultrasonography and roentgen imaging] Melzer C. **Orthopade** 1997 Jan;26(1):43–8 (Eng. Abstr.) **(Ger)**

[Roentgen studies and arthrography of the hip joint in infancy] Tönnis D. **Orthopade** 1997 Jan;26(1):49–58 (53 ref.) (Eng. Abstr.) **(Ger)**

[CT osteodensitometry in the area immediate to hip endoprostheses] Sokiranski R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):455–61 (Eng. Abstr.) **(Ger)**

[Hip dysplasia in dogs––a new radiologic technique for the recognition of loose hip joints] Flückiger M, et al. **Schweiz Arch Tierheilkd** 1997;139(4):183–5 (0 ref.) **(Ger)**

[Reproducibility of radiologic diagnosis in gonarthrosis] Günther KP, et al. **Z Orthop Ihre Grenzgeb** 1997 May–Jun; 135(3):197–202 (Eng. Abstr.) **(Ger)**

[Normal values of some parameters determining congruency of the hip in the radiographic image] Wierusz–Kozłowska M, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):365–9 (Eng. Abstr.) **(Pol)**

RADIONUCLIDE IMAGING

Scrotal pathology as the cause for hip pain. Diagnostic findings on bone scintigraphy. Sheafor DH, et al. **Clin Nucl Med** 1997 May;22(5):287–91 (25 ref.)

SURGERY

Patient–related risk factors for early revision of total hip replacements. A population register–based case–control study of 674 revised hips. Espehaug B, et al. **Acta Orthop Scand** 1997 Jun;68(3):207–15

Contemporary trends in orthopaedics of the hip joint. 3. Steel's triple pelvic osteotomy in the treatment of arthritis of the hip joint in dysplasia of the acetabulum. Rejholec M. **Acta Univ Carol [Med] (Praha)** 1992;38(1–4):35–47

Intra–articular hip arthrodesis without subtrochanteric osteotomy in adolescents: technique and short–term follow–up. Schoenecker PL, et al. **Am J Orthop** 1997 Apr; 26(4):257–64

Surgical management of refractory trochanteric bursitis. Slawski DP, et al. **Am J Sports Med** 1997 Jan–Feb; 25(1):86–9

Audit of thromboembolic prophylaxis in hip and knee surgery. Williams HR, et al. **Ann R Coll Surg Engl** 1997 Jan;79(1):55–7

Influence of a high hip center on abductor muscle function. Jerosch J, et al. **Arch Orthop Trauma Surg** 1997; 116(6–7):385–9

Joint salvaging surgery for an extensive giant cell tumor of the proximal femur complicated by a transcervical fracture. Sim E, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):431–4

Open reduction and stabilisation of coxofemoral joint luxation in dogs and cats, using a stainless steel rope inserted via a ventral approach to the hip joint. Kawamata T, et al. **Aust Vet J** 1996 Dec;74(6):460–4

Use of modified fluid gelatin and hydroxyethyl starch for colloidal volume replacement in major orthopaedic surgery. Beyer R, et al. **Br J Anaesth** 1997 Jan;78(1):44–50

Propofol patient–controlled sedation during hip or knee arthroplasty in elderly patients. Ganapathy S, et al. **Can J Anaesth** 1997 Apr;44(4):385–9

The hip in children with cerebral palsy. Predicting the outcome of soft tissue surgery. Cornell MS, et al. **Clin Orthop** 1997 Jul;(340):165–71

Hip fusion through an anterior approach with the use of a ventral plate. Matta JM, et al. **Clin Orthop** 1997 Apr; (337):129–39

A survey of factors determining the utilization of autologous blood donation in hip replacement surgery. Dugast C, et al. **Eur J Anaesthesiol** 1997 May;14(3):276–80

Changes in bone mineral density around a stable uncemented total hip arthroplasty. Korovessis P, et al. **Int Orthop** 1997; 21(1):30–4

The frequency, prognosis and significance of nerve injuries in total hip arthroplasty. Oldenburg M, et al. **Int Orthop** 1997;21(1):1–3

Migration of porous press–fit cups in hip revision arthroplasty. A radiostereometric 2–year follow–up study of 60 hips. Nivbrant B, et al. **J Arthroplasty** 1996 Jun; 11(4):390–6

Abductor avulsion after primary total hip arthroplasty. Results of repair. Weber M, et al. **J Arthroplasty** 1997 Feb; 12(2):202–6

The use of erythropoietin in the management of Jehovah's Witnesses who have revision total hip arthroplasty. Sparling EA, et al. **J Bone Joint Surg Am** 1996 Oct; 78(10):1548–52

Colonna arthroplasty with concomitant femoral shortening and rotational osteotomy. Long–term results. Stans AA, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):84–96

Reconstruction for sequelae of septic hip in children. Chang CH, et al. **J Formos Med Assoc** 1997 May;96(5):353–8

Arthroplasty in the goat hip. Khalily C, et al. **J Invest Surg** 1997 May–Jun;10(3):119–23

Coxa vara: surgical outcomes of valgus osteotomies. Carroll K, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):220–4

Long–term follow–up of Chiari pelvic osteotomy in myelomeningocele. Mannor DA, et al. **J Pediatr Orthop** 1996 Nov–Dec;16(6):769–73

Surgery for unstable hips in cerebral palsy. Barrie JL, et al. **J Pediatr Orthop B** 1996 Fall;5(4):225–31

Hip arthroscopy. Hunter DM, et al. **J South Orthop Assoc** 1996 Winter;5(4):243–50

The ability of various acetabular components to resist protrusio migration. Benjamin J, et al. **Orthopedics** 1997 Apr;20(4):307–10

The cost and benefit of prophylaxis against deep vein thrombosis in elective hip replacement. DVT/PE Prophylaxis Consensus Forum. Abdool–Carrim T, et al. **S Afr Med J** 1997 May;87(5):594–600 (5 ref.)

Anatomic basis of the transgluteal approach to the hip–joint by anterior hemimyotomy of the gluteus medius. Duparc F, et al. **Surg Radiol Anat** 1997;19(2):61–7

Acetabular anatomy and the relationship with pelvic vascular structures. Implications in hip surgery. Feugier P, et al. **Surg Radiol Anat** 1997;19(2):85–90

Clinical and radiographic evaluation of intertrochanteric osteotomy in dogs: a retrospective study of 18 dogs. Evers P, et al. **Vet Surg** 1997 May–Jun;26(3):217–22

[Excision arthroplasty of the hip joint in dogs and cats. Clinical, radiographic and gait analysis findings at the surgical veterinary clinic of the Ludwig Maximilians University of Munich] Off W, et al. **Tierarztl Prax** 1997 Jul;25(4):379–87 (Eng. Abstr.) **(Ger)**

[Excision arthroplasty of the hip joint in dogs and cats. Long–term results of the veterinary surgery clinic at the Justus Liebig University of Giessen] Tacke S, et al. **Tierarztl Prax** 1997 Jul;25(4):373–8 (Eng. Abstr.) **(Ger)**

[Murata–Chiba (MC) support ring for acetabular defect in rheumatoid hip] Suzuki M, et al. **Ryumachi** 1996 Jun; 36(3):574–9 (Eng. Abstr.) **(Jpn)**

[Ochronosis––case report and literature review] Cnota H, et al. **Chir Narzadow Ruchu Ortop Pol** 1996;61(6):585–8 (Eng. Abstr.) **(Pol)**

[Hip joint arthrodesis with vascularized bone autotransplant on fixed neurovascular pedicle] Sikilinda VD, et al. **Khirurgiia (Mosk)** 1996;(4):64–6 (Eng. Abstr.) **(Rus)**

[The results of operations for open reduction with capsular hip joint arthroplasty in congenital hip dislocation in children] Khalkhodzhaev M, et al. **Vestn Khir Im I I Grek** 1996;155(4):45–6 (Eng. Abstr.) **(Rus)**

ULTRASONOGRAPHY

Dynamic ultrasonographic measurement of passive coxofemoral joint laxity in puppies. O'Brien RT, et al. **J Am Anim Hosp Assoc** 1997 May–Jun;33(3):275–81

Hip abnormalities detected by ultrasound [letter; comment] Dodenhoff RM. **J Bone Joint Surg Br** 1997 Mar;79(2):342 . Comment on: J Bone Joint Surg Br 1996 Jul;78(4):636–40.

Prospective evaluation of newborn soft–tissue hip "clicks" with ultrasound. Bond CD, et al. **J Pediatr Orthop** 1997 Mar–Apr;17(2):199–201

Ultrasonography in the early diagnosis of hip joint involvement in juvenile rheumatoid arthritis. Fedrizzi MS, et al. **J Rheumatol** 1997 Sep;24(9):1820–5

Polymorphisms of the vitamin D receptor gene do not predict quantitative ultrasound of the calcaneus or hip axis length. Arden NK, et al. **Osteoporos Int** 1996;6(4):334–7

Ultrasonographic evaluation of the anterior recess in the normal hip: a prospective study on 166 asymptomatic children. Rohrschneider WK, et al. **Pediatr Radiol** 1996 Sep;26(9):629–34

Precision of sonographic measurement of articular cartilage: inter– and intraobserver analysis. Castriota–Scanderbeg A, et al. **Skeletal Radiol** 1996 Aug;25(6):545–9

[Hip ultrasonography. Basic principles and current aspects] Graf R. **Orthopade** 1997 Jan;26(1):14–24 (70 ref.) (Eng. Abstr.) **(Ger)**

[Results of hip ultrasonographic screening in Austria] Grill F, et al. **Orthopade** 1997 Jan;26(1):25–32 (Eng. Abstr.) **(Ger)**

[Correlation between ultrasonography and roentgen imaging] Melzer C. **Orthopade** 1997 Jan;26(1):43–8 (Eng. Abstr.) **(Ger)**

[Standard values for the intrauterine ultrasonography of hip joint development (published erratum appears in Z Orthop Ihre Grenzgeb 1996 Nov–Dec;134(6):487)] Wagner UA, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul–Aug;134(4):337–40 (Eng. Abstr.) **(Ger)**

[Ultrasound is ideal in hip physiolysis] Leven H. **Lakartidningen** 1997 Jun 11;94(24):2266–7 **(Swe)**

ULTRASTRUCTURE

Application of numerical descriptors to the characterization of wear particles obtained from joint replacements. Stachowiak GW, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):1–10

HIP PROSTHESIS

Intravenous ketoprofen for pain relief after total hip or knee replacement. Kostamovaara PA, et al. **Acta Anaesthesiol Scand** 1996 Jul;40(6):697–703

Bilateral tuberculous infection of replaced hips––reactivation 54 years after infection in one knee. Carlsson AS, et al. **Acta Orthop Scand** 1997 Feb;68(1):74–6

Patient–related risk factors for early revision of total hip replacements. A population register–based case–control study of 674 revised hips. Espehaug B, et al. **Acta Orthop Scand** 1997 Jun;68(3):207–15

Palacos–angiography? Unusual radiographic findings after cemented hip prostheses. Gjengedal E, et al. **Acta Orthop Scand** 1997 Feb;68(1):18–9

Venous outflow obstruction 8 years following Ring total hip

arthroplasty. A rare complication of acetabular loosening and polyethylene wear. Goyal S, et al. **Acta Orthop Scand** 1997 Feb;68(1):67–9

Need for bilateral arthroplasty for coxarthrosis. 1,477 replacements in 1,199 patients followed for 0–14 years. Husted H, et al. **Acta Orthop Scand** 1996 Oct;67(5):421–3

Social function after cervical hip fracture. A comparison of hook–pins and total hip replacement in 47 patients. Jónsson B, et al. **Acta Orthop Scand** 1996 Oct;67(5):431–4

Renal impairment after hip or knee arthroplasty. Urinary excretion of protein markers studied in 59 patients. Nergelius G, et al. **Acta Orthop Scand** 1997 Feb;68(1):34–40

Gentamicin–free bone cement does not alter proteinuria after hip arthroplasty [letter] Nergelius G, et al. **Acta Orthop Scand** 1997 Aug;68(4):410–1

Total hip replacement for developmental dysplasia of the hip. Paavilainen T. **Acta Orthop Scand** 1997 Feb; 68(1):77–84

Acetabular cup loosening—peeling off of the plasma–sprayed porous coating in 2 cases. Ylinen P. **Acta Orthop Scand** 1996 Oct;67(5):508–10

Neutral proteinases and their inhibitors in the loosening of total hip prostheses. Takagi M. **Acta Orthop Scand Suppl** 1996 Oct;271:3–29 (198 ref.)

Comparative risk of early postoperative pulmonary embolism after cemented total knee versus total hip arthroplasty with low–dose warfarin prophylaxis. Vresilovic EJ, et al. **Am J Knee Surg** 1996 Winter;9(1):2–6

Sliding osteotomy of the greater trochanter. Ebraheim NA, et al. **Am J Orthop** 1997 Mar;26(3):212–5

Prevention of complications with the gamma nail [letter; comment] Rosenthal RE. **Am J Orthop** 1996 Oct;25(10):729 . Comment on: Am J Orthop 1996 May;25(5):357–63.

Identification of inducible nitric oxide synthase in human macrophages surrounding loosened hip prostheses. Watkins SC, et al. **Am J Pathol** 1997 Apr;150(4):1199–206

Continuous measurement of arterial blood gas status during total hip replacement: a prospective study. Venkatesh B, et al. **Anaesth Intensive Care** 1996 Jun;24(3):334–41

A comparison of intrathecal morphine–6–glucuronide and intrathecal morphine sulfate as analgesics for total hip replacement. Grace D, et al. **Anesth Analg** 1996 Nov; 83(5):1055–9

Primary and secondary Charnley–Hastings hemiarthroplasty in displaced femoral neck fractures and their sequelae. Benterud JG, et al. **Ann Chir Gynaecol** 1996;85(1):72–6

Transfusion needs in hip and knee arthroplasty. Kurdy NM. **Ann Chir Gynaecol** 1996;85(1):86–9

Ultrasonographic screening before hospital discharge for deep venous thrombosis after arthroplasty: the post–arthroplasty screening study. A randomized, controlled trial. Robinson KS, et al. **Ann Intern Med** 1997 Sep 15;127(6):439–45

Patient–controlled analgesia versus patient–controlled analgesia plus continuous infusion after hip replacement surgery. Smythe MA, et al. **Ann Pharmacother** 1996 Mar; 30(3):224–7

Cardiac arrest from the use of diathermy during total hip arthroplasty in a patient with an external pacemaker. Andrade AJ, et al. **Ann R Coll Surg Engl** 1997 Jan; 79(1):69–70

National total hip replacement audit project. Gregg P. **Ann R Coll Surg Engl** 1996 Sep;78(5 Suppl):232–3

Total hip replacement: indications for surgery and risk factors for failure. Crawford RW, et al. **Ann Rheum Dis** 1997 Aug; 56(8):455–7

Inhibitory effect of cephalothin on matrix metalloproteinase activity around loose hip prostheses [see comments] Santavirta S, et al. **Antimicrob Agents Chemother** 1996 Jan; 40(1):244–6. Comment in: Antimicrob Agents Chemother 1996 Aug;40(8):1969–70.

Metal–on–metal CoCrMo McKee–Farrar total hip arthroplasty: characteristics from a long–term follow–up study. Higuchi F, et al. **Arch Orthop Trauma Surg** 1997; 116(3):121–4

Influence of a high hip center on abductor muscle function. Jerosch J, et al. **Arch Orthop Trauma Surg** 1997; 116(6–7):385–9

Course of bone mineral content changes around cementless Zweymueller total hip arthroplasty. A 4–year follow–up study. Korovessis P, et al. **Arch Orthop Trauma Surg** 1997; 116(1–2):60–5

The mechanism of loosening in cemented hip prostheses determined from long–term results. Müller RT, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):41–5

Shear and tensile strength of hydroxyapatite coating under loading conditions. An experimental study in dogs. Müller RT, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):334–7

Cardiac risks in total hip replacement. Peters KM, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):83–7

The "learning curve" of total hip arthroplasty. Salai M, et al. **Arch Orthop Trauma Surg** 1997;116(6–7):420–2

Periprosthetic microvasculature in loosening of total hip replacement. Santavirta S, et al. **Arch Orthop Trauma Surg** 1996;115(5):286–9

Survival of Lubinus straight (IP) and curved (SP) total hip prostheses in 543 patients after 4–13 years. Savilahti S, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):10–3

A new classification for heterotopic ossifications in total hip arthroplasty considering the surgical approach. Schmidt J, et al. **Arch Orthop Trauma Surg** 1996;115(6):339–43

Prevention of potential fracture between two implants using interlocking bipolar cut short GK nail and Enders nail. Yip KM. **Arch Orthop Trauma Surg** 1997;116(4):229–32

Revision total hip arthroplasty. Indications and outcomes. Mahomed N, et al. **Arthritis Rheum** 1996 Dec; 39(12):1939–50 (88 ref.)

Capsular chondroid metaplasia following total hip arthroplasty. Wilson T, et al. **Aust N Z J Surg** 1997 May; 67(5):298–300

Influence of hemodilution on cefuroxime levels and bacterial contamination of intra– and postoperative processed wound blood during hip replacement. Wollinsky KH, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:191–5

Histological and biomechanical analysis of bone and interface reactions around hydroxyapatite–coated intramedullary implants of different stiffness: a pilot study on the goat. Buma P, et al. **Biomaterials** 1997 Sep;18(18):1251–60

Wear characteristics of ceramic–on–ceramic for hip endoprostheses. Früh HJ, et al. **Biomaterials** 1997 Jun; 18(12):873–6

Experimental evaluation of a resorbable intramedullary plug for cemented total hip replacement. Giardino R, et al. **Biomaterials** 1997 Jul;18(13):907–13

Friction in hip prostheses. Hall RM, et al. **Biomaterials** 1997 Aug;18(15):1017–26 (63 ref.)

Effects of mechanical testing device variables on polymer composite femoral stem strains. Heiner AD, et al. **Biomaterials** 1996 Dec;17(23):2211–7

Morphological features of bone healing under the effect of collagen–graft–glycosaminoglycan copolymer supplemented with the tripeptide Gly–His–Lys. Pohunková H, et al. **Biomaterials** 1996 Aug;17(16):1567–74

Biomechanical and histological evaluation of a hydroxyapatite–coated titanium femoral stem fixed with an intramedullary morsellized bone grafting technique: an animal experiment on goats. Schreurs BW, et al. **Biomaterials** 1996 Jun;17(12):1177–86

Wear characteristics of sliding pairs of zirconia (Y–TZP) for hip endoprostheses. Willmann G, et al. **Biomaterials** 1996 Nov;17(22):2157–62

Material optimisation of the femoral component of a hip prosthesis based on the fatigue notch fatigue approach. Hedia HS, et al. **Biomed Mater Eng** 1997;7(2):83–98

Effect of FE idealisation, load conditions and interface assumptions on the stress distribution and fatigue notch factor in the human femur with an endoprosthesis. Hedia HS, et al. **Biomed Mater Eng** 1996;6(3):135–52

Shape optimisation of a Charnley prosthesis based on the fatigue notch factor. Hedia HS, et al. **Biomed Mater Eng** 1996;6(3):199–217

Hydroxyapatite impregnated bone cement: in vitro and in vivo studies. Kwon SY, et al. **Biomed Mater Eng** 1997; 7(2):129–40

Young adults with arthritic hips [editorial] Northmore–Ball MD. **BMJ** 1997 Aug 2;315(7103):265–6

Use of calcium antagonists and need for perioperative transfusion in older patients with hip fracture: observational study. Zuccalá G, et al. **BMJ** 1997 Mar 1;314(7081):643–4

Different loads can produce similar bone density distributions. Fischer KJ, et al. **Bone** 1996 Aug;19(2):127–35

Intrathecal infusion of bupivacaine with or without morphine for postoperative analgesia after hip and knee arthroplasty. Bachmann M, et al. **Br J Anaesth** 1997 Jun;78(6):666–70

Evaluation of the usefulness of intrathecal bupivacaine infusion for analgesia after hip and knee arthroplasty. Niemi L, et al. **Br J Anaesth** 1996 Oct;77(4):544–5

Low molecular weight heparin associated with spinal anaesthesia and gradual compression stockings in total hip replacement surgery. Arar Study Group. Samama CM, et al. **Br J Anaesth** 1997 Jun;78(6):660–5

Elective surgery in an anaemic Jehovah's Witness. Cooper R, et al. **Br J Hosp Med** 1996 Jul 10–Aug 20;56(2–3):107–8

Survey of use of thromboprophylaxis for routine total hip replacement by British orthopaedic surgeons. Francis RM, et al. **Br J Hosp Med** 1997 May 7–20;57(9):427–31 (36 ref.)

The friction of explanted hip prostheses. Hall RM, et al. **Br J Rheumatol** 1997 Jan;36(1):20–6

Bilateral hip replacements in a man with cystic fibrosis and episodic arthritis [letter] Jones SM, et al. **Br J Rheumatol** 1997 Feb;36(2):298–9

A new operation for arthroplasty of the hip based on biomechanics, photoelasticity, fast–setting dental acrylic, and other considerations. 1953 [classicle article] Haboush EJ. **Bull Hosp Jt Dis** 1996;55(2):95–111 (8 ref.)

The Balgrist hip socket for fixation without cement: analysis of 387 primary total hip replacements. Hauser R, et al. **Bull Hosp Jt Dis** 1996;54(3):180–5

Periprosthetic bone density in uncemented femoral hip implants with proximal hydroxylapatite coating. Massari L, et al. **Bull Hosp Jt Dis** 1996;54(4):206–10

The cementless anatomic medullary locking femoral component: an independent clinical and radiographic assessment. Chess DG, et al. **Can J Surg** 1996 Oct; 39(5):389–92

A short course of low–molecular–weight heparin to prevent deep venous thrombosis after elective total hip replacement. Gallay S, et al. **Can J Surg** 1997 Apr; 40(2):119–23

Acute polyethylene fracture in an uncemented acetabular cup. Gross AE, et al. **Can J Surg** 1997 Aug;40(4):310–2

Interpretation by radiologists of orthopedic total joint radiographs: is it necessary or cost–effective? [see comments] Nayak KN, et al. **Can J Surg** 1996 Oct; 39(5):393–6. Comment in: Can J Surg 1997 Apr;40(2):147–8; discussion 150–1. Comment in: Can J Surg 1997 Apr;40(2):148–50; discussion 150–1.

Devolution of hip and knee replacement surgery? [editorial; comment] Waddell JP. **Can J Surg** 1996 Oct;39(5):354–5. Comment on: Can J Surg 1996 Oct;39(5):373–8.

Age differences do not account for variation in hip and knee operations [letter; comment] Harris WR. **Can Med Assoc J** 1996 Dec 1;155(11):1549–50. Comment on: Can Med Assoc J 1996 Sep 15;155(6):697–706.

Wear of the epiphysis–acetabulum in total hip arthroplasty: a review of the literature. Affatato S, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):119–28 (22 ref.) **(Eng, Ita)**

Removal of heterotopic ossifications followed by cobalt therapy after hip arthroplasty. Busanelli L, et al. **Chir Organi Mov** 1996 Sep–Dec;81(4):341–5 **(Eng, Ita)**

Pulmonary embolism associated with use of bone cement during hip arthroplasty. Fabbri G, et al. **Chir Organi Mov** 1996 Sep–Dec;81(4):347–9 **(Eng, Ita)**

Medial fractures of the femoral neck in the elderly treated by SEM bipolar prosthesis. Goretti C, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):173–87 **(Eng, Ita)**

The biological problems of total hip arthroplasty. Gualtieri G, et al. **Chir Organi Mov** 1997 Jan–Mar;82(1):61–7 **(Eng, Ita)**

Observations on the initial stability of acetabular components in total hip arthroplasty. An experimental study. Pitto RP, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):107–18 **(Eng, Ita)**

The use of cobalt therapy to prevent heterotopic ossification after total hip arthroplasty. Sudanese A, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):89–106 **(Eng, Ita)**

Fracture of the ceramic epiphysis in hip arthroplasty. Toni A, et al. **Chir Organi Mov** 1996 Jan–Mar;81(1):11–9 **(Eng, Ita)**

Hydroxyapatite as metallic prosthesis coating: preliminary clinical experience. Toni A, et al. **Chir Organi Mov** 1996 Sep–Dec;81(4):351–9 **(Eng, Ita)**

Tumor necrosis factor–alpha (TNF–alpha) in loosening of total hip replacement (THR). Xu JW, et al. **Clin Exp Rheumatol** 1996 Nov–Dec;14(6):643–8

Aggressive granulomatosis causing a painful hip arthroplasty. Findings on bone and Ga–67 imaging. Gayle EL, et al. **Clin Nucl Med** 1996 Apr;21(4):337–9

Sequential Tc–99m MDP bone scans after cementless total hip arthroplasty in asymptomatic patients. Kim HS, et al. **Clin Nucl Med** 1997 Jan;22(1):6–12

Surgical treatment of pathologic hip lesions in patients with metastatic disease. Algan SM, et al. **Clin Orthop** 1996 Nov; (332):223–31

Analysis of particles in acetabular components from patients with osteolysis. Bloebaum RD, et al. **Clin Orthop** 1997 May; (338):109–18

Primary hybrid total hip arthroplasty: an interim followup. Callaghan JJ, et al. **Clin Orthop** 1996 Dec;(333):118–25

Engineering issues and wear performance of metal on metal hip implants. Chan FW, et al. **Clin Orthop** 1996 Dec; (333):96–107

Modern metal on metal articulation for total hip replacements. Dorr LD, et al. **Clin Orthop** 1996 Dec; (333):108–17

Functional results in total hip replacement in patients 65 years and older. Dorr LD, et al. **Clin Orthop** 1997 Mar; (336):143–51

Dislocations and the femoral head size in primary total hip arthroplasty. Hedlundh U, et al. **Clin Orthop** 1996 Dec; (333):226–33

Thigh pain and total hip arthroplasty: scintigraphy with 2.5–year followup. Herzwurm PJ, et al. **Clin Orthop** 1997 Mar;(336):156–61

Management of limb length inequality during total hip replacement. Jasty M, et al. **Clin Orthop** 1996 Dec; (333):165–71

Wear particulate species and bone loss in failed total joint arthroplasties. Kadoya Y, et al. **Clin Orthop** 1997 Jul; (340):118–29

Microscopic studies of human press fit titanium hip prostheses. Lester DK. **Clin Orthop** 1997 Aug;(341):143–50

False aneurysm of the common femoral artery after total hip arthroplasty. A case report. Mallory TH, et al. **Clin Orthop** 1997 May;(338):105–8

The Otto Aufranc Award. Skeletal response to well fixed femoral components inserted with and without cement. Maloney WJ, et al. **Clin Orthop** 1996 Dec;(333):15–26

Effect of epidural analgesia on venous blood flow after hip arthroplasty. Markel DC, et al. **Clin Orthop** 1997 Jan; (334):168–74

The Frank Stinchfield Award. 3–Dimensional sliding/contact computational simulation of total hip wear. Maxian TA, et al. **Clin Orthop** 1996 Dec;(333):41–50

Longitudinal evaluation of time related bone remodeling after cementless total hip arthroplasty. Nishii T, et al. **Clin Orthop** 1997 Jun;(339):121–31

Hemodilution with other blood reinfusion techniques in total hip arthroplasty. Oishi CS, et al. **Clin Orthop** 1997 Jun; (339):132–9

Prosthetic hip replacement for pathologic or impending pathologic fractures in myeloma. Papagelopoulos PJ, et al. **Clin Orthop** 1997 Aug;(341):192–205

Total hip arthroplasty with femoral osteotomy for proximal femoral deformity. Papagelopoulos PJ, et al.

Clin Orthop 1996 Nov;(332):151–62

The John Charnley Award. Natural history of thromboembolic disease after total hip arthroplasty. Pellegrini VD Jr, et al. **Clin Orthop** 1996 Dec;(333):27–40

Acetabular strains produced by oversized press fit cups. Ries MD, et al. **Clin Orthop** 1997 Jan;(334):276–81

Total hip arthroplasty in patients with osteonecrosis. The effect of cement techniques. Ritter MA, et al. **Clin Orthop** 1997 May;(338):94–9

Cementless femoral components should be made from cobalt chrome [letter; comment] Rorabeck CH. **Clin Orthop** 1996 Apr;(325):326–7. Comment on: Clin Orthop 1995 Apr;(313):146–53.

Periprosthetic bone density around fully hydroxyapatite coated femoral stem. Trevisan C, et al. **Clin Orthop** 1997 Jul;(340):109–17

Cement debonding process of total hip arthroplasty stems. Verdonschot N, et al. **Clin Orthop** 1997 Mar;(336):297–307

Incidence of late bead shedding from uncemented porous coated cups. A radiographic evaluation. von Knoch M, et al. **Clin Orthop** 1997 Sep;(342):99–105

Use of osteonics UHR hemiarthroplasty for fractures of the femoral neck. Wada M, et al. **Clin Orthop** 1997 May;(338):172–81

Crevice corrosion of cemented titanium alloy stems in total hip replacements. Willert HG, et al. **Clin Orthop** 1996 Dec;(333):51–75

Massive osteolysis after ceramic on ceramic total hip arthroplasty. A case report. Wirganowicz PZ, et al. **Clin Orthop** 1997 May;(338):100–4

Total hip arthroplasty for avascular necrosis and degenerative osteoarthritis of the hip. Xenakis TA, et al. **Clin Orthop** 1997 Aug;(341):62–8

Therapy with pulsed electromagnetic fields in aseptic loosening of total hip protheses: a prospective study. Konrad K, et al. **Clin Rheumatol** 1996 Jul;15(4):325–8

Macrophage–colony stimulating factor (M–CSF) is increased in the synovial–like membrane of the periprosthetic tissues in the aseptic loosening of total hip replacement (THR). Xu JW, et al. **Clin Rheumatol** 1997 May;16(3):243–8

Plasma leptin, energy intake and hunger following total hip replacement surgery. Stratton RJ, et al. **Clin Sci (Colch)** 1997 Aug;93(2):113–7

Complications of total hip arthroplasty [editorial] Raisis LW. **Del Med J** 1996 Sep;68(9):455

The postdischarge risk of venous thromboembolism after hip replacement. The role of prolonged prophylaxis. Bergqvist D. **Drugs** 1996;52 Suppl 7:55–9 (47 ref.)

Efficacy and safety of postdischarge administration of enoxaparin in the prevention of deep venous thrombosis after total hip replacement. A prospective randomised double–blind placebo–controlled trial. Planes A, et al. **Drugs** 1996;52 Suppl 7:47–54

A survey of factors determining the utilization of autologous blood donation in hip replacement surgery. Dugast C, et al. **Eur J Anaesthesiol** 1997 May;14(3):276–80

Some studies of the complement system during total hip replacement using bone cement under general anaesthesia. Lewis RN. **Eur J Anaesthesiol** 1997 Jan;14(1):35–9

Respiratory complications of bone cement insertion during total hip replacement under spinal anaesthesia. Lewis RN. **Eur J Anaesthesiol** 1997 Jan;14(1):52–4

Pharmacokinetics of cloxacillin in patients undergoing hip or knee replacement. Vinge E, et al. **Eur J Clin Pharmacol** 1997;52(5):407–11

Giving both enoxaparin and dextran increases the need for transfusion in revision hip arthroplasty. Lisander B, et al. **Eur J Surg** 1996 Nov;162(11):861–6

Recurrent dislocation of a hemiarthroplasty stabilized with an ABC ligament. Nicholl JE, et al. **Injury** 1996 Jul; 27(6):447–8

Noncemented total hip arthroplasty in the young patient: considerations for optimizing long–term implant survival. Bobyn JD, et al. **Instr Course Lect** 1994;43:299–313 (165 ref.)

Results of primary total hip arthroplasty in young patients. Callaghan JJ. **Instr Course Lect** 1994;43:315–21 (24 ref.)

Cementless fixation in the young patient. Capello WN. **Instr Course Lect** 1994;43:323–7 (7 ref.)

The generation of wear debris from cementless hip prostheses. Collier JP, et al. **Instr Course Lect** 1994; 43:257–62 (11 ref.)

Preoperative templating and choosing the implant for primary THA in the young patient. D'Antonio JA. **Instr Course Lect** 1994;43:339–46 (6 ref.)

Primary total hip arthroplasty in the older patient: optimizing the results. Dore DD, et al. **Instr Course Lect** 1994; 43:347–57 (22 ref.)

The case for cemented fixation of the femur in every patient. Harris WH. **Instr Course Lect** 1994;43:367–71 (41 ref.)

Cemented fixation of the femur. Jasty M. **Instr Course Lect** 1994;43:373–9 (33 ref.)

Contributions of basic and applied sciences to hip replacement in the older patient. Noble PC. **Instr Course Lect** 1994;43:381–92 (38 ref.)

Fixing the cup. Petrera P, et al. **Instr Course Lect** 1994; 43:393–407 (64 ref.)

Cementless fixation of the femur: pros and cons. Rorabeck CH, et al. **Instr Course Lect** 1994;43:329–37 (33 ref.)

Particulate debris in cemented total hip replacement. Salvati EA, et al. **Instr Course Lect** 1994;43:277–88 (53 ref.)

Osteolysis due to particle wear debris following total hip arthroplasty: the role of high–density polyethylene. Wroblewski BM. **Instr Course Lect** 1994;43:289–94 (12 ref.)

Deep venous thrombosis prophylaxis with low molecular weight heparin and elastic compression in patients having total hip replacement. A randomised controlled trial. Kalodiki EP, et al. **Int Angiol** 1996 Jun;15(2):162–8

Total hip replacement. The preoperative health status of patients in Japan compared with England and the United States. Imamura K, et al. **Int J Technol Assess Health Care** 1997 Winter;13(1):1–10

Uncemented total hip replacement and thigh pain. Bülow JU, et al. **Int Orthop** 1996;20(2):65–9

Bone cement penetration of the acetabulum in total hip replacement. An experimental study. Heller KD, et al. **Int Orthop** 1996;20(5):315–20

Loosening of threaded acetabular cups in arthroplasty of the hip. The association with different types of coxarthrosis. Hernández–Vaquero D, et al. **Int Orthop** 1996;20(2):70–4

Changes in bone mineral density around a stable uncemented total hip arthroplasty. Korovessis P, et al. **Int Orthop** 1997; 21(1):30–4

Remodelling and pain after uncemented total hip replacement. Lindgren JU, et al. **Int Orthop** 1996;20(1):7–11

Determination of periprosthetic bone density with the DEXA method after implantation of custom–made uncemented femoral stems. Martini F, et al. **Int Orthop** 1996; 20(4):218–21

Factors affecting socket fixation after cemented revision. Raut VV, et al. **Int Orthop** 1997;21(2):83–6

Bipolar hip replacement in sickle cell disease. Sanjay BK, et al. **Int Orthop** 1996;20(4):222–6

A comparison of intermittent calf compression and enoxaparin for thromboprophylaxis in total hip replacement. A pilot study. Stone MH, et al. **Int Orthop** 1996;20(6):367–9

Prevention of fatal pulmonary embolism with warfarin after total hip replacement. Suomalainen O, et al. **Int Orthop** 1996;20(2):75–9

Aseptic loosening of BonelocR cemented hip prostheses. Wedderkopp N, et al. **Int Orthop** 1997;21(2):87–90

Prospective serial technetium diphosphonate and indium–111 white blood cell labeled imaging in primary uncemented total hip arthroplasty. Callaghan JJ, et al. **Iowa Orthop J** 1996;16:104–12

When is total hip arthroplasty a failure? The patients' perspective. Hellman EJ, et al. **Iowa Orthop J** 1996; 16:113–7

Results of the cementless Mallory–Head primary total hip arthroplasty: a 5 to 7 year review. Mulliken BD, et al. **Iowa Orthop J** 1996;16:20–34

Acute limb ischemia and heparin–induced thrombocytopenia: the value of echocardiography in eliminating a cardiac source of arterial emboli. Vignon P, et al. **J Am Soc Echocardiogr** 1996 May–Jun;9(3):344–7

Vertebral bone density after hip rearthroplasty assessed by quantitative computed tomography. Adolphson P. **J Arthroplasty** 1996 Oct;11(7):869–72

Femoral cortical remodeling after uncemented total hip arthroplasty. A prospective radiologic study of 26 hips followed for 2 to 4 years. Adolphson P. **J Arthroplasty** 1997 Jan;12(1):99–105

Early failure of a carbon–fiber composite femoral component. Allcock S, et al. **J Arthroplasty** 1997 Apr;12(3):356–8

Periprosthetic femoral osteolysis around an uncemented nonmodular Moore prosthesis. Bal BS, et al. **J Arthroplasty** 1997 Apr;12(3):346–9

Uncemented press–fit total hip arthroplasty using the Identifit custom–molding technique: a prospective minimum 2–year follow–up study [letter; comment] Bargar WL. **J Arthroplasty** 1996 Oct;11(7):880. Comment on: J Arthroplasty 1996 Apr;11(3):247–54.

Appositional bone bridging of primary gaps in the dome area of uncemented, porous acetabular components [letter] Benjamin JB. **J Arthroplasty** 1996 Sep;11(6):761

Custom total hip arthroplasty. Bert JM. **J Arthroplasty** 1996 Dec;11(8):905–15

Impacted particulate allograft for femoral revision total hip arthroplasty. In vitro mechanical stability and effects of cement pressurization. Berzins A, et al. **J Arthroplasty** 1996 Aug;11(5):500–6

Wear of retrieved cemented polyethylene acetabula with alumina femoral heads. Bragdon CR, et al. **J Arthroplasty** 1997 Feb;12(2):119–25

Demographic biases found in scoring instruments of total hip arthroplasty. Brinker MR, et al. **J Arthroplasty** 1996 Oct;11(7):820–30

Primary noncemented total hip arthroplasty in patients with ankylosing spondylitis. Clinical and radiographic results at an average follow–up period of 6 years. Brinker MR, et al. **J Arthroplasty** 1996 Oct;11(7):802–12 (48 ref.)

Influence of the Crowe rating on the outcome of total hip arthroplasty in congenital hip dysplasia. Cameron HU, et al. **J Arthroplasty** 1996 Aug;11(5):582–7

Collection of surgical specimens in total joint arthroplasty. Is routine pathology cost effective? Campbell ML, et al. **J Arthroplasty** 1997 Jan;12(1):60–3

Posterior skin flap numbness after total hip arthroplasty. Chatterji U, et al. **J Arthroplasty** 1996 Oct;11(7):853–5

Experience with primary exeter total hip arthroplasty in patients with small femurs. Review at average follow–up period of 6 years. Chiu KH, et al. **J Arthroplasty** 1997 Apr;12(3):267–72

Total hip arthroplasty for arthodesed hips [letter; comment] Delaunay C. **J Arthroplasty** 1996 Jun;11(4):487. Comment on: J Arthroplasty 1995 Aug;10(4):529–31.

Primary total hip arthroplasty with the Karl Zweymüller first–generation cementless prosthesis. A 5– to 9–year retrospective study. Delaunay CP, et al. **J Arthroplasty** 1996 Sep;11(6):643–52

Three–dimensional polyethylene wear of a press–fit titanium prosthesis. Factors influencing generation of polyethylene debris. Devane PA, et al. **J Arthroplasty** 1997 Apr; 12(3):256–66

16– to 25–year follow–up study of cemented arthroplasty of the hip in patients aged 50 years or younger. Devitt A, et al. **J Arthroplasty** 1997 Aug;12(5):479–89

Unusual cause of third–body wear in total hip arthroplasty. Diwan A, et al. **J Arthroplasty** 1997 Aug;12(5):586–8

Comparative results of a distal modular sleeve, circumferential coating, and stiffness relief using the Anatomic Porous Replacement II. Dorr LD, et al. **J Arthroplasty** 1996 Jun;11(4):419–28

Intraoperative complications of revision hip arthroplasty using a fully porous–coated straight cobalt–chrome femoral stem. Egan KJ, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S45–51

Massive early subsidence following femoral impaction grafting. Eldridge JD, et al. **J Arthroplasty** 1997 Aug; 12(5):535–40

Factors affecting cement strains near the tip of a cemented femoral component. Estok DM 2nd, et al. **J Arthroplasty** 1997 Jan;12(1):40–8

Early failure of Hylamer acetabular inserts due to eccentric wear [letter; comment] Ezzet KA. **J Arthroplasty** 1996 Sep; 11(6):761–2. Comment on: J Arthroplasty 1996 Apr;11(3):351–3.

Extended proximal femoral osteotomy for severe acetabular protrusion following total hip arthroplasty. A technical note. Firestone TP, et al. **J Arthroplasty** 1997 Apr; 12(3):344–5

Mittelmeier ceramic–ceramic prosthesis after 10 years. Garcia–Cimbrelo E, et al. **J Arthroplasty** 1996 Oct; 11(7):773–81

Postoperative blood salvage and reinfusion after total joint arthroplasty. Han CD, et al. **J Arthroplasty** 1997 Aug; 12(5):511–6

Total hip arthroplasty cemented femoral component distal stem centralizer. Effect on stem centralization and cement mantle. Hanson PB, et al. **J Arthroplasty** 1995 Oct; 10(5):683–8

Comparison of cemented and cementless total hip arthroplasty in patients with bilateral hip arthroplasties. Hearn SL, et al. **J Arthroplasty** 1995 Oct;10(5):603–8

Results and complications of total hip arthroplasties in patients with sickle–cell hemoglobinopathies. Role of cementless components. Hickman JM, et al. **J Arthroplasty** 1997 Jun;12(4):420–5

Prosthesis displacement as a complication of reduction of a dislocated total hip arthroplasty. Holt MD. **J Arthroplasty** 1996 Dec;11(8):979–80

Human postmortem retrieval of total hip arthroplasty. Hosip–Flor S, et al. **J Arthroplasty** 1997 Aug;12(5):562–7

Head–neck modularity for total hip arthroplasty. Is it necessary? Hozack WJ, et al. **J Arthroplasty** 1996 Jun; 11(4):397–9

Relationship between polyethylene wear, pelvic osteolysis, and clinical symptomatology in patients with cementless acetabular components. A framework for decision making. Hozack WJ, et al. **J Arthroplasty** 1996 Oct;11(7):769–72

Treatment of femoral osteolysis with cementless total hip revision. Hozack WJ, et al. **J Arthroplasty** 1996 Sep; 11(6):668–72

Prosthetic component failures in hip arthroplasty surgery [letter] Hungerford DS. **J Arthroplasty** 1996 Aug; 11(5):640–1

Unsatisfactory results of a first–generation modular femoral stem implanted without cement. A 4– to 9–year follow–up study. Huo MH, et al. **J Arthroplasty** 1997 Aug;12(5):490–6

Cementless total hip arthroplasties using ceramic–on–ceramic articulation in young patients. A minimum 5–year follow–up study. Huo MH, et al. **J Arthroplasty** 1996 Sep; 11(6):673–8

Cementless ceramic hip arthroplasties in patients less than 30 years old. Hyder N, et al. **J Arthroplasty** 1996 Sep; 11(6):679–86

Measurement accuracy in acetabular cup wear. Three retrospective methods compared with Roentgen stereophotogrammetry. Ilchmann T, et al. **J Arthroplasty** 1995 Oct;10(5):636–42

Enhanced stability of uncemented canine femoral components by bone ingrowth into the porous coatings. Jasty M, et al. **J Arthroplasty** 1997 Jan;12(1):106–13

Use of acetabular models in planning complex acetabular reconstructions. John JF, et al. **J Arthroplasty** 1995 Oct; 10(5):661–6

Duplex scanning in the postoperative surveillance of patients undergoing total hip arthroplasty. Kalodiki E, et al. **J Arthroplasty** 1997 Apr;12(3):310–6

Long–term durability of cemented primary total hip arthroplasty. Kay RM, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S29–38

Outcome of total hip arthroplasties with cement. Results after implantation of the Harris Design 2 prosthesis, 1983–1985. Keisu K, et al. **J Arthroplasty** 1996 Oct;11(7):789–96 (16

ref.)
Poor reproducibility in radiographic grading of femoral cementing technique in total hip arthroplasty. Kelly AJ, et al. **J Arthroplasty** 1996 Aug;11(5):525–8
Reamed surface topography and component seating in press–fit cementless acetabular fixation. Kim YS, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S14–21
Bladder management after total joint arthroplasty. Knight RM, et al. **J Arthroplasty** 1996 Dec;11(8):882–8
Inadequate polyethylene thickness and osteolysis in cementless hip arthroplasty. Learmonth ID, et al. **J Arthroplasty** 1997 Apr;12(3):305–9
Enhancement of the value of hip questionnaires by telephone follow–up evaluation. McGrory BJ, et al. **J Arthroplasty** 1997 Apr;12(3):340–3
Correlation of measured range of hip motion following total hip arthroplasty and responses to a questionnaire. McGrory BJ, et al. **J Arthroplasty** 1996 Aug;11(5):565–71
Can the western Ontario and McMaster Universities (WOMAC) osteoarthritis index be used to evaluate different hip joints in the same patient? McGrory BJ, et al. **J Arthroplasty** 1996 Oct;11(7):841–4
Scandinavian multicenter porous coated anatomic total hip arthroplasty study. Clinical and radiographic results with 7– to 10–year follow–up evaluation. Malchau H, et al. **J Arthroplasty** 1997 Feb;12(2):133–48
Femoral component revision using an uncemented, proximally coated, long–stem prosthesis. Malkani AL, et al. **J Arthroplasty** 1996 Jun;11(4):411–8
Clinical and radiographic outcome of a cementless, titanium, plasma spray–coated total hip arthroplasty femoral component. Justification for continuance of use. Mallory TH, et al. **J Arthroplasty** 1996 Sep;11(6):653–60
Integral porous femoral stem. 5–to 8–Year follow–up study. Mauerhan DR, et al. **J Arthroplasty** 1997 Apr;12(3):250–5
Comparison of collared and collarless femoral components in primary uncemented total hip arthroplasty. Meding JB, et al. **J Arthroplasty** 1997 Apr;12(3):273–80
An analysis of a retrieved Prodigy femoral prosthesis. Moon KH, et al. **J Arthroplasty** 1996 Aug;11(5):629–36
Treatment of periprosthetic fractures around total hip arthroplasty with an extensively coated femoral component. Moran MC. **J Arthroplasty** 1996 Dec; 11(8):981–8
Revision total hip arthroplasty with correctional femoral osteotomy in Paget's disease. Namba RS, et al. **J Arthroplasty** 1997 Aug;12(5):591–5
Efficacy of closed wound drainage after total joint arthroplasty. A prospective randomized study. Ovadia D, et al. **J Arthroplasty** 1997 Apr;12(3):317–21
Bipolar femoral head arthroplasty in osteoarthritis. A prospective study with a minimum 5–year follow–up period. Pandit R. **J Arthroplasty** 1996 Aug;11(5):560–4
Total joint arthroplasty in orthotopic liver transplant recipients. Papagelopoulos PJ, et al. **J Arthroplasty** 1996 Dec;11(8):889–92
Prospective study of 100 consecutive Harris–Galante porous total hip arthroplasties. 4– to 8–year follow–up study. Petersilge WJ, et al. **J Arthroplasty** 1997 Feb;12(2):185–93
Revision total hip arthroplasty with a retroperitoneal approach to the iliac vessels. Petrera P, et al. **J Arthroplasty** 1996 Sep;11(6):704–8
Effect of improved cementing techniques on the longevity of fixation in revision cemented femoral arthroplasties. Average 8.8–year follow–up period. Pierson JL, et al. **J Arthroplasty** 1995 Oct;10(5):581–91
46–year survival of a Smith–Petersen mold arthroplasty. Radcliffe SN, et al. **J Arthroplasty** 1997 Aug;12(5):584–5
Loci of movement of selected points on the femoral head during normal gait. Three–dimensional computer simulation. Ramamurti BS, et al. **J Arthroplasty** 1996 Oct; 11(7):845–52
Outcome of revision for mechanical stem failure using the cemented Charnley's stem. A study of 399 cases. Raut VV, et al. **J Arthroplasty** 1996 Jun;11(4):405–10
Effect of cementless acetabular cup geometry on strain distribution and press–fit stability. Ries MD, et al. **J Arthroplasty** 1997 Feb;12(2):207–12
Effect of total hip arthroplasty on cardiovascular fitness. Ries MD, et al. **J Arthroplasty** 1997 Jan;12(1):84–90
The Wisconsin noncemented femoral stem. A prospective study with 5 to 9 years of follow–up evaluation. Scerpella PR, et al. **J Arthroplasty** 1995 Oct;10(5):622–31
Surgical management of intra– and postoperative fractures of the femur about the tip of the stem in total hip arthroplasty. Schmotzer H, et al. **J Arthroplasty** 1996 Sep; 11(6):709–17
Host–bone response to porous–coated cobalt–chrome and hydroxyapatite–coated titanium femoral components in hip arthroplasty. Dual–energy x–ray absorptiometry analysis of paired bilateral cases at 5 to 7 years. Scott DF, et al. **J Arthroplasty** 1996 Jun;11(4):429–37
Measurement of periprosthetic bone density in hip arthroplasty using dual–energy x–ray absorptiometry. Reproducibility of measurements. Smart RC, et al. **J Arthroplasty** 1996 Jun;11(4):445–52
Cementless femoral revision arthroplasty. 2– to 5–year results with a modular titanium alloy stem. Smith JA, et al. **J Arthroplasty** 1997 Feb;12(2):194–201
Effects of distal femoral centralizers on bone–cement in total hip arthroplasty. An experimental analysis of cement–centralizer bonding, cement void formation, and crack propagation. Smith SG, et al. **J Arthroplasty** 1996 Sep;11(6):687–92
Pelvic mass caused by polyethylene wear after uncemented total hip arthroplasty. Wang JW, et al. **J Arthroplasty** 1996 Aug;11(5):626–8
Abductor avulsion after primary total hip arthroplasty. Results of repair. Weber M, et al. **J Arthroplasty** 1997 Feb; 12(2):202–6
Cemented collarless (Exeter–CPT) versus cementless collarless (PCA) femoral components. A 2– to 14–year follow–up evaluation. Weidenhielm LR, et al. **J Arthroplasty** 1995 Oct;10(5):592–7
Fixation of ultrahigh–molecular–weight polyethylene liners to metal–backed acetabular cups. Williams VG 2nd, et al. **J Arthroplasty** 1997 Jan;12(1):25–31
Clinical failure of alumina [letter; comment] Willmann G. **J Arthroplasty** 1996 Sep;11(6):762. Comment on: J Arthroplasty 1995 Dec;10(6):855–9.
Acetabular revision using a bone–ingrowth total hip component in patients who have acetabular bone stock deficiency. Woolson ST, et al. **J Arthroplasty** 1996 Sep; 11(6):661–7
Failure of a proximally porous–coated femoral prosthesis in revision total hip arthroplasty. Woolson ST, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S22–8
Neglected congenital dislocation of the hip. Role of computed tomography and computer–aided design for total hip arthroplasty. Xenakis TA, et al. **J Arthroplasty** 1996 Dec;11(8):893–8
Survivorship analysis of cemented total hip arthroplasty acetabular components implanted with second–generation techniques. Ziegler BS, et al. **J Arthroplasty** 1996 Sep; 11(6):750–6
The use of fluorescence markers to record prosthetic wear patterns. Ward DM. **J Audiov Media Med** 1996 Sep; 19(3):123–9
Relations between compressive axial forces in an instrumented massive femoral implant, ground reaction forces, and integrated electromyographs from vastus lateralis during various 'osteogenic' exercises. Bassey EJ, et al. **J Biomech** 1997 Mar;30(3):213–23
Mechanical validation of whole bone composite femur models [see comments] Cristofolini L, et al. **J Biomech** 1996 Apr;29(4):525–35 (44 ref.). Comment in: J Biomech 1996 Sep;29(9):1241.
The role of backside polishing, cup angle, and polyethylene thickness on the contact stresses in metal–backed acetabular components. Kurtz SM, et al. **J Biomech** 1997 Jun; 30(6):639–42
Relationship between bone–prosthesis bonding and load transfer in total hip reconstruction. McNamara BP, et al. **J Biomech** 1997 Jun;30(6):621–30
Experimental study of periacetabular deformations before and after implantation of hip prostheses. Massin P, et al. **J Biomech** 1996 Jan;29(1):53–61
Subsidence of THA stems due to acrylic cement creep is extremely sensitive to interface friction. Verdonschot N, et al. **J Biomech** 1996 Dec;29(12):1569–75
The effects of cement–stem debonding in THA on the long–term failure probability of cement. Verdonschot N, et al. **J Biomech** 1997 Aug;30(8):795–802
A numerical investigation of the mechanics of swelling–type intramedullary hip implants. Kalidindi SR, et al. **J Biomech Eng** 1997 Aug;119(3):241–7
The predictive value of stress shielding for quantification of adaptive bone resorption around hip replacements. Kuiper JH, et al. **J Biomech Eng** 1997 Aug;119(3):228–31
Modeling the tensile behavior of the cement–bone interface using nonlinear fracture mechanics. Mann KA, et al. **J Biomech Eng** 1997 May;119(2):175–8
Numerical and experimental stress analysis of a polymeric composite hip joint prosthesis. Akay M, et al. **J Biomed Mater Res** 1996 Jun;31(2):167–82
Fatigue behavior of zirconia hip joint heads: experimental results and finite element analysis. Drouin JM, et al. **J Biomed Mater Res** 1997 Feb;34(2):149–55
Relationship between microstructure and ductility of investment cast ASTM F–75 implant alloy. Gómez M, et al. **J Biomed Mater Res** 1997 Feb;34(2):157–63
Water and bovine serum lubrication compared in simulator PTFE/CoCr wear model. Good VD, et al. **J Biomed Mater Res** 1996 Winter;33(4):275–83
Heterogeneity in cellular and cytokine profiles from multiple samples of tissue surrounding revised hip prostheses. Goodman SB, et al. **J Biomed Mater Res** 1996 Jul; 31(3):421–8
Comparison and quantitation of wear debris of failed total hip and total knee arthroplasty. Hirakawa K, et al. **J Biomed Mater Res** 1996 Jun;31(2):257–63
mRNA expression of matrix metalloproteinases and tissue inhibitors of metalloproteinase in interface tissue around implants in loosening total hip arthroplasty. Ishiguro N, et al. **J Biomed Mater Res** 1996 Dec;32(4):611–7
Macrophage activation and migration in interface tissue around loosening total hip arthroplasty components. Ishiguro N, et al. **J Biomed Mater Res** 1997 Jun 5; 35(3):399–406
Characterization of in vivo wear debris from ceramic–ceramic total hip arthroplasties. Lerouge S, et al. **J Biomed Mater Res** 1996 Dec;32(4):627–33
Polyethylene wear in total hip and knee arthroplasties. Lewis G. **J Biomed Mater Res** 1997 Spring;38(1):55–75 (118 ref.)
Effects of cement creep on stem subsidence and stresses in the cement mantle of a total hip replacement. Lu Z, et al. **J Biomed Mater Res** 1997 Feb;34(2):221–6
In vivo wear of Ti6A14V femoral heads: a retrieval study. McGovern TE, et al. **J Biomed Mater Res** 1996 Nov; 32(3):447–57
Enhanced strength in cemented stem fixation using adhesive acrylic cement as a metal coating material. Morita S, et al. **J Biomed Mater Res** 1997 Feb;34(2):171–5
Shapes and dimensional characteristics of polyethylene wear particles generated in vivo by total knee replacements compared to total hip replacements. Schmalzried TP, et al. **J Biomed Mater Res** 1997 Fall;38(3):203–10
Design–related fretting wear in modular neck hip prosthesis. Viceconti M, et al. **J Biomed Mater Res** 1996 Feb; 30(2):181–6
Fretting wear in a modular neck hip prosthesis. Viceconti M, et al. **J Biomed Mater Res** 1997 May;35(2):207–16
Biomechanical and histological analysis of an HA coated, arc deposited CPTi canine hip prosthesis. Walenciak MT, et al. **J Biomed Mater Res** 1996 Aug;31(4):465–74
Postmortem analysis of bone growth into porous–coated acetabular components. Bloebaum RD, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1013–22
Long–term clinical consequences of stress–shielding after total hip arthroplasty without cement. Bugbee WD, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1007–12
Acute tubular necrosis of an allograft kidney following total hip replacement. A case report. Cable TD, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1402–3
Hydroxyapatite–coated total hip femoral components in patients less than fifty years old. Clinical and radiographic results after five to eight years of follow–up. Capello WN, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1023–9
Total hip arthroplasty with cement for juvenile rheumatoid arthritis. Results at a minimum of ten years in patients less than thirty years old. Chmell MJ, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):44–52
Effect of the elevated–rim acetabular liner on loosening after total hip arthroplasty. Cobb TK, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1361–4
Measurement of polyethylene wear in acetabular components inserted with and without cement. A randomized trial. Devane PA, et al. **J Bone Joint Surg Am** 1997 May; 79(5):682–9
Long–term results of use of the anatomic medullary locking prosthesis in total hip arthroplasty. Engh CA Jr, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):177–84
Prevention of deep–vein thrombosis after total hip arthroplasty. Comparison of warfarin and dalteparin. Francis CW, et al. **J Bone Joint Surg Am** 1997 Sep; 79(9):1365–72
Progression of radiolucent lines adjacent to the acetabular component and factors influencing migration after Charnley low–friction total hip arthroplasty. García–Cimbrelo E, et al. **J Bone Joint Surg Am** 1997 Sep; 79(9):1373–80
Early loosening of the femoral component at the cement–prosthesis interface after total hip replacement [letter; comment] Harris WH. **J Bone Joint Surg Am** 1997 Feb;79(2):313–4. Comment on: J Bone Joint Surg Am 1995 Sep;77(9):1315–22.
Total hip arthroplasty with hydroxyapatite–coated prostheses. Jaffe WL, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1918–34 (187 ref.)
Wear of polyethylene acetabular components in total hip arthroplasty. An analysis of one hundred and twenty–eight components retrieved at autopsy or revision operations. Jasty M, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):349–58
Polyethylene debris in lymph nodes [letter] Lidor C. **J Bone Joint Surg Am** 1996 Nov;78(11):1784–5
Revision total hip arthroplasty with cement after cup arthroplasty. Long–term follow–up [letter; comment] Loudon JR. **J Bone Joint Surg Am** 1997 Mar;79(3):470. Comment on: J Bone Joint Surg Am 1996 Jan;78(1):87–93.
The effect of active movement of the foot on venous blood flow after total hip replacement. McNally MA, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1198–201
Failure of a non–porous–coated acetabular component inserted without cement in primary total hip arthroplasty. Muldoon MP, et al. **J Bone Joint Surg Am** 1996 Oct; 78(10):1486–90
Total hip arthroplasty for congenital dysplasia or dislocation of the hip. Survivorship analysis and long–term results. Numair J, et al. **J Bone Joint Surg Am** 1997 Sep; 79(9):1352–60
The influence of patient–related factors and the position of the acetabular component on the rate of dislocation after total hip replacement. Paterno SA, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1202–10
The fate of well fixed cemented femoral components left in place at the time of revision of the acetabular component. Peters CL, et al. **J Bone Joint Surg Am** 1997 May; 79(5):701–6
Fracture of a ceramic femoral head after a revision operation. A case report. Pulliam IT, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):118–21
Revision of the acetabular component of a total hip arthroplasty with cement in young patients without rheumatoid arthritis. Raut VV, et al. **J Bone Joint Surg Am** 1996 Dec;78(12):1853–6
Digital edge–detection measurement of polyethylene wear

after total hip arthroplasty. Shaver SM, et al. **J Bone Joint Surg Am** 1997 May;79(5):690–700

Bulk structural autogenous grafts and allografts for reconstruction of the acetabulum in total hip arthroplasty. Sixteen–year–average follow–up. Shinar AA, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):159–68

Long–term results of total hip replacement in young patients who had ankylosing spondylitis. Eighteen to thirty–year results with survivorship analysis. Sochart DH, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1181–9

The use of erythropoietin in the management of Jehovah's Witnesses who have revision total hip arthroplasty. Sparling EA, et al. **J Bone Joint Surg Am** 1996 Oct; 78(10):1548–52

Radiographic evaluation of penetration by the femoral head into the polyethylene liner over time. Sychterz CJ, et al. **J Bone Joint Surg Am** 1997 Jul;79(7):1040–6

Primary total hip arthroplasty with a porous–coated acetabular component. Seven–to–ten–year results. Tompkins GS, et al. **J Bone Joint Surg Am** 1997 Feb; 79(2):169–76

Fracture of an acetabular component inserted without cement. A case report. Trousdale RT, et al. **J Bone Joint Surg Am** 1997 Jun;79(6):901–5

Intermittent pneumatic compression prophylaxis for proximal deep venous thrombosis after total hip replacement. Woolson ST. **J Bone Joint Surg Am** 1996 Nov; 78(11):1735–40

Prolonged asymptomatic micro–embolism after hip or knee arthroplasty. Abraham P, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):269–72

Acute colonic pseudo–obstruction after total hip replacement. Ballaro A, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):621–3

Avascular necrosis of the femoral head after allogenic bone–marrow transplantation. A retrospective study of 27 consecutive THAs with a minimal two–year follow–up. Bizot P, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):878–83

Total hip arthroplasty after previous proximal femoral osteotomy. Boos N, et al. **J Bone Joint Surg Br** 1997 Mar; 79(2):247–53

Pain levels after total hip replacement: their use as endpoints for survival analysis. Britton AR, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):93–8

Elevated serum cobalt with metal–on–metal articulating surfaces. Brodner W, et al. **J Bone Joint Surg Br** 1997 Mar; 79(2):316–21

Air contamination during skin preparation and draping in joint replacement surgery. Brown AR, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):92–4

Obesity and quality of life after primary hip arthroplasty [see comments] Chan CL, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):78–81. Comment in: J Bone Joint Surg Br 1996 Sep;78(5):855–6.

Genetic influences in end–stage osteoarthritis. Sibling risks of hip and knee replacement for idiopathic osteoarthritis. Chitnavis J, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):660–4

Antibiotic prophylaxis in total hip arthroplasty. Review of 10,905 primary cemented total hip replacements reported to the Norwegian arthroplasty register, 1987 to 1995. Espehaug B, et al. **J Bone Joint Surg Br** 1997 Jul; 79(4):590–5

Complete femoral nerve division at total hip arthroplasty. Fabre T, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):148–9

Acetabular cup migration: prediction of aseptic loosening [letter; comment] Freeman MA. **J Bone Joint Surg Br** 1997 Mar;79(2):342–3. Comment on: J Bone Joint Surg Br 1995 Nov;77(6):853–61.

The prognosis and treatment of dislocated total hip arthroplasties with a 22 mm head. Hedlundh U, et al. **J Bone Joint Surg Br** 1997 May;79(3):374–8

Aseptic loosening of total hip replacement. Macrophage expression of inducible nitric oxide synthase and cyclo–oxygenase–2, together with peroxynitrite formation, as a possible mechanism for early prosthesis failure. Hukkanen M, et al. **J Bone Joint Surg Br** 1997 May; 79(3):467–74

Polyethylene wear in the Charnley offset bore acetabular cup. A radiological analysis. Izquierdo–Avino RJ, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):82–4

Migration of cemented femoral components after THR. Roentgen stereophotogrammetric analysis. Kiss J, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):796–801

Prevention of heterotopic ossification after total hip replacement. A prospective, randomised study using acetylsalicylic acid, indomethacin and fractional or single–dose irradiation. Knelles D, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):596–602

Early radiological observations may predict the long–term survival of femoral hip prostheses. Kobayashi A, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):583–9

Systemic release of cobalt and chromium after uncemented total hip replacement. Kreibich DN, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):18–21

Femoral component wear in retrieved hip prostheses. Kusaba A, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):331–6

Long–term clinical and radiological results of the Lord total hip prosthesis. A prospective study. Malchau H, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):884–91

Femoral component revision using impacted morsellised cancellous graft. A biomechanical study of implant stability. Malkani AL, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):973–8

Uptake of 99mTc–MDP after uncemented hip arthroplasty: a quantitative analysis of findings around the femoral component in asymptomatic patients. Maniar RN, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):123–8

Early femoral loosening in one design of cemented hip replacement. Massoud SN, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):603–8

Death and thromboembolic disease [letter; comment] Murphy AJ, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):165–6. Comment on: J Bone Joint Surg Br 1995 Jan;77(1):6–10.

Loss to follow–up matters. Murray DW, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):254–7

Thromboprophylaxis and death after total hip replacement. Murray DW, et al. **J Bone Joint Surg Br** 1996 Nov; 78(6):863–70

Acetabular osteolysis and migration in bipolar arthroplasty of the hip: five– to 13–year follow–up study. Nakata K, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):258–64

RSA in the assessment of aseptic loosening [editorial; comment] Nilsson KG, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):1–3. Comment on: J Bone Joint Surg Br 1996 Jul;78(4):682.

Quality–of–life improvement compared after hip and knee replacement. Norman–Taylor FH, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):74–7

Primary Charnley total hip arthroplasty for congenital dysplasia: effect of improved techniques of cementing. Okamoto T, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):83–6

Migration and wear of a hydroxyapatite–coated hip prosthesis. A controlled roentgen stereophotogrammetric study. Onsten I, et al. **J Bone Joint Surg Br** 1996 Jan; 78(1):85–91

Hydroxyapatite in revision of total hip replacements with massive acetabular defects: 4– to 10–year clinical results. Oonishi H, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):87–92

Joint motion and surface contact area related to component position in total hip arthroplasty. Robinson RP, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):140–6

Measurement of polyethylene wear in cementless total hip arthroplasty. Shih CH, et al. **J Bone Joint Surg Br** 1997 May;79(3):361–5

Middle–term results of threaded acetabular cups. High failure rates five years after surgery. Simank HG, et al. **J Bone Joint Surg Br** 1997 May;79(3):366–70

Effect of femoral offset on motion and abductor muscle strength after total hip arthroplasty [letter] Spalding TJ. **J Bone Joint Surg Br** 1996 Nov;78(6):997–8

Fatigue failure of cancellous bone: a possible cause of implant migration and loosening. Taylor M, et al. **J Bone Joint Surg Br** 1997 Mar;79(2):181–2 (18 ref.)

Complete displacement of the femoral stem during dislocation of a THR. Volpin G, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):616–7

Unipolar or bipolar prosthesis for displaced intracapsular hip fracture [letter; comment] Warwick D, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):694–5. Comment on: J Bone Joint Surg Br 1996 May;78(3):391–4.

Periprosthetic bone loss and regional bone turnover in uncemented total hip arthroplasty: a prospective study using high resolution single photon emission tomography and dual–energy X–ray absorptiometry. Kröger H, et al. **J Bone Miner Res** 1997 Mar;12(3):487–92

Evaluation of periprosthetic bone using dual–energy x–ray absorptiometry: precision of the method and effect of operation on bone mineral density. Kröger H, et al. **J Bone Miner Res** 1996 Oct;11(10):1526–30

Active warming, not passive heat retention, maintains normothermia during combined epidural–general anesthesia for hip and knee arthroplasty. Berti M, et al. **J Clin Anesth** 1997 Sep;9(6):482–6

Comparison of general anesthesia with and without lumbar epidural for total hip arthroplasty: effects of epidural block on hip arthroplasty. Dauphin A, et al. **J Clin Anesth** 1997 May;9(3):200–3

The efficacy of single–dose aprotinin 2 million KIU in reducing blood loss and its impact on the incidence of deep venous thrombosis in patients undergoing total hip replacement surgery. Hayes A, et al. **J Clin Anesth** 1996 Aug;8(5):357–60

Total hip prosthesis metal–artifact suppression using iterative deblurring reconstruction. Robertson DD, et al. **J Comput Assist Tomogr** 1997 Mar–Apr;21(2):293–8

Total hip reconstruction in a woman with Cornelia de Lange syndrome: a case report. Grant RE, et al. **J Natl Med Assoc** 1997 Aug;89(8):530–2

Detection of postoperative deep–venous thrombosis using technetium–99m–labeled tissue plasminogen activator. Butler SP, et al. **J Nucl Med** 1997 Feb;38(2):219–23

Persistent fever in a patient with polycystic kidney and liver diseases and bilateral hip prostheses. Kwok CG, et al. **J Nucl Med** 1996 Dec;37(12):2062–5

Altered load history affects periprosthetic bone loss following cementless total hip arthroplasty. Bryan JM, et al. **J Orthop Res** 1996 Sep;14(5):762–8

Human monocyte/macrophage response to cobalt–chromium corrosion products and titanium particles in patients with total joint replacements. Lee SH, et al. **J Orthop Res** 1997 Jan;15(1):40–9

Effects of stem length on mechanics of the femoral hip component after cemented revision. Mann KA, et al. **J Orthop Res** 1997 Jan;15(1):62–8

In vitro measurement of strain in the bone cement surrounding the femoral component of total hip replacements during simulated gait and stair–climbing. O'Connor DO, et al. **J Orthop Res** 1996 Sep;14(5):769–77

Cement viscosity affects the bone–cement interface in total hip arthroplasty. Stone JJ, et al. **J Orthop Res** 1996 Sep; 14(5):834–7

Case study: physical therapy management of hip osteoarthritis prior to total hip arthroplasty. King L. **J Orthop Sports Phys Ther** 1997 Jul;26(1):35–8

Results of an operative policy in the treatment of periprosthetic femoral fracture. McLauchlan GJ, et al. **J Orthop Trauma** 1997 Apr;11(3):170–9

Total hip arthroplasty for complications of proximal femoral fractures. Tabsh I, et al. **J Orthop Trauma** 1997 Apr; 11(3):166–9

Predicting length of stay after hip or knee replacement for rheumatoid arthritis [see comments] Escalante A, et al. **J Rheumatol** 1997 Jan;24(1):146–52. Comment in: J Rheumatol 1997 Jan;24(1):1–2.

The hospital course in total hip and knee arthroplasty: which length of stay is right? [editorial; comment] Johanson NA. **J Rheumatol** 1997 Jan;24(1):1–2. Comment on: J Rheumatol 1997 Jan;24(1):146–52.

Pneumatic compression or aspirin prophylaxis against thromboembolism in total hip arthroplasty. Lachiewicz PF, et al. **J South Orthop Assoc** 1996 Winter;5(4):272–80

Total joint replacement in active golfers. Mallon WJ, et al. **J South Orthop Assoc** 1994 Winter;3(4):295–8

Retrograde nailing of supracondylar femoral fractures in patients with total hip arthroplasty: a preliminary report. Menth–Chiari WA, et al. **J Trauma** 1996 Dec;41(6):1059–63

Mennen plate fixation for fractures of the femoral shaft after ipsilateral hip arthroplasty. Uchio Y, et al. **J Trauma** 1997 Jun;42(6):1157–60

Hip and knee replacement as a relative contraindication to laparoscopic pelvic lymph node dissection. Cooper CS, et al. **J Urol** 1997 Jul;158(1):128–30

Wear particles in bilateral internal iliac lymph nodes after loosening of a painless unilateral cemented total hip arthroplasty. Lidor C, et al. **J Urol** 1996 Nov;156(5):1775–6

Intravesical methylmethacrylate after revision hip arthroplasty. McCallum TJ, et al. **J Urol** 1996 Nov; 156(5):1777

Pseudotumor formation in the bladder as a late complication of total hip replacement. Pang ST, et al. **J Urol** 1997 Jun; 157(6):2254

A 76–year–old woman considering total hip replacement, 1 year later [comment] Daley J, et al. **JAMA** 1997 Apr 23–30; 277(16):1314. Comment on: JAMA 1996 Aug 14;276(6):486–91.

Informing patients about total hip replacement [letter; comment] Hubers MJ. **JAMA** 1996 Dec 18;276(23):1875; discussion 1876. Comment on: JAMA 1996 Aug 14;276(6):486–91.

Informing patients about total hip replacement [letter; comment] Toumbis CA, et al. **JAMA** 1996 Dec 18; 276(23):1875–6; discussion 1876. Comment on: JAMA 1996 Aug 14;276(6):486–91.

Septic arthritis of adult hip treated by total hip replacement—a case report. Hsu YP, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Mar; 13(3):195–9

Design and evaluation of a device for measuring three–dimensional micromotions of press–fit femoral stem prostheses. Bühler DW, et al. **Med Eng Phys** 1997 Mar; 19(2):187–99

Quantitative assessment of cortical bone remodelling from routine radiographs of total hip arthroplasty. Dujardin FH, et al. **Med Eng Phys** 1996 Sep;18(6):489–94

A method for shape optimization of a hip prosthesis to maximize the fatigue life of the cement. Hedia HS, et al. **Med Eng Phys** 1996 Dec;18(8):647–54

Vibration analysis in the detection of total hip prosthetic loosening. Li PL, et al. **Med Eng Phys** 1996 Oct; 18(7):596–600

Respiratory and analgesic effects of meperidine and tramadol in patients undergoing orthopedic surgery. Tarradell R, et al. **Methods Find Exp Clin Pharmacol** 1996 Apr; 18(3):211–8

A review of total joint replacement in active duty soldiers. Kuklo TR, et al. **Mil Med** 1997 Mar;162(3):201–4

Enoxaparin as prophylaxis against thromboembolism after total hip replacement [letter; comment] Anderson DR, et al. **N Engl J Med** 1997 Feb 20;336(8):585; discussion 586 . Comment on: N Engl J Med 1996 Sep 5;335(10):696–700.

Enoxaparin as prophylaxis against thromboembolism after total hip replacement [letter; comment] Pedell L. **N Engl J Med** 1997 Feb 20;336(8):585; discussion 586. Comment on: N Engl J Med 1996 Sep 5;335(10):696–700.

An ounce of protection [letter] Kessler J. **N Y State Dent J** 1997 Jun–Jul;63(6):10

A retrospective audit of blood loss in total hip joint replacement surgery at Middlemore Hospital. Gillham M, et al. **N Z Med J** 1997 Aug 8;110(1049):294–7

Macromotion of the femoral component in artificial hip joint. Hasegawa Y, et al. **Nagoya J Med Sci** 1996 Dec; 59(3–4):129–33

Total hip replacement after acetabular fracture. Jimenez ML, et al. **Orthop Clin North Am** 1997 Jul;28(3):435–46 (26 ref.)

Concerns with cementless modular acetabular components. Barrack RL. **Orthopedics** 1996 Sep;19(9):741–3

The ability of various acetabular components to resist protrusio migration. Benjamin J, et al. **Orthopedics** 1997 Apr;20(4):307–10

Dissociation of polyethylene cup liners after total hip arthroplasty: a characteristic triad. Berman AT, et al. **Orthopedics** 1996 Nov;19(11):971–4

Factors influencing polyethylene wear. Berry DJ. **Orthopedics** 1996 Sep;19(9):729–31

Comparison of general and epidural anesthesia in patients undergoing primary unilateral THR. Brinker MR, et al. **Orthopedics** 1997 Feb;20(2):109–15

Cemented arthroplasty: yesterday, today, and tomorrow. Callaghan JJ, et al. **Orthopedics** 1997 Sep;20(9):769–70

Managing length: the 'too long' leg. Cameron HU. **Orthopedics** 1997 Sep;20(9):791–2

Management of femoral deformities during the total hip replacement. Cameron HU. **Orthopedics** 1996 Sep; 19(9):745–6

Acetabular revision options. Christie MJ, et al. **Orthopedics** 1997 Sep;20(9):804–7

Hip challenges: what would you do? Dorr LD, et al. **Orthopedics** 1997 Sep;20(9):867–9

Femoral fixation in primary total hip arthroplasty. Engh CA Sr, et al. **Orthopedics** 1997 Sep;20(9):771–3

Management of the dysplastic hip. Gross AE. **Orthopedics** 1997 Sep;20(9):789–90

An accurate method for measuring leg length and hip offset in hip arthroplasty. Huddleston HD. **Orthopedics** 1997 Apr; 20(4):331–2

Pelvic osteolysis associated with an uncemented acetabular component in total hip arthroplasty. Kavanagh BF, et al. **Orthopedics** 1996 Feb;19(2):159–63

Activity relationships of total hip arthroplasty in patients with osteonecrosis and osteoarthritis. Letson GD, et al. **Orthopedics** 1996 Aug;19(8):665–8

Cemented arthroplasty: 20 years onward. Ling RS. **Orthopedics** 1996 Sep;19(9):735

Porous-coated fixation: the experience. Mallory TH. **Orthopedics** 1996 Sep;19(9):736–8

THR in the elderly: considerations and outcomes. Mallory TH. **Orthopedics** 1996 Sep;19(9):747–8

Subsidence and the cement mantle in femoral impaction allografting. Masterson EL, et al. **Orthopedics** 1997 Sep; 20(9):821–2

Classification of adult congenital hip dysplasia for total hip arthroplasty. Mendes DG, et al. **Orthopedics** 1996 Oct; 19(10):881–7; quiz 888–9

Stem loosening and thigh pain in THA: are they related to prosthesis stiffness? Mishra AK, et al. **Orthopedics** 1997 Jan;20(1):58–61; quiz 62–3 (36 ref.)

The post-discharge prophylactic management of the orthopedic patient with low-molecular-weight heparin: enoxaparin. Nilsson PE, et al. **Orthopedics** 1997 Feb;20 Suppl:22–5

Cementless sockets: optimums and outcomes. Paprosky WG. **Orthopedics** 1997 Sep;20(9):777–9

All-poly cemented sockets: the resurrection? Ranawat CS. **Orthopedics** 1997 Sep;20(9):783–5

Femoral head size: variation among manufacturers. Ritter MA, et al. **Orthopedics** 1996 Oct;19(10):877–8

Cemented Charnley acetabular failures. Ritter MA. **Orthopedics** 1996 Sep;19(9):739–40

Results of the total bi-metric cementless hip arthroplasty. Robertsen K, et al. **Orthopedics** 1996 Aug;19(8):673–4

The lessons of acetabular component fixation. Rorabeck CH, et al. **Orthopedics** 1997 Sep;20(9):786–7

Hip dislocation: causes and cures. Rorabeck CH. **Orthopedics** 1997 Sep;20(9):795–7

A global approach to the management of DVT in total hip and knee arthroplasty. Sculco TP. **Orthopedics** 1997 Sep; 20(9):832–4

Metal/metal articulating interfaces. Wagner H, et al. **Orthopedics** 1996 Sep;19(9):749–52

Articulating metal interfaces. Weber BG. **Orthopedics** 1997 Sep;20(9):811–4

Hip abductor muscle activity in persons with a hip prosthesis while carrying loads in one hand. Neumann DA. **Phys Ther** 1996 Dec;76(12):1320–30

Acute abdomen after total hip replacement. Nashi M, et al. **Postgrad Med J** 1997 Jun;73(860):351–3

The importance of multidirectional motion on the wear of polyethylene. Bragdon CR, et al. **Proc Inst Mech Eng [H]** 1996;210(3):157–65

Estimation of wear in total hip replacement using a ten station hip simulator. Brummitt K, et al. **Proc Inst Mech Eng [H]** 1996;210(3):187–90

Effect of counterface material on the characteristics of retrieved uncemented cobalt-chromium and titanium alloy total hip replacements. Brummitt K, et al. **Proc Inst Mech Eng [H]** 1996;210(3):191–5

Wear and morphology of ultra-high molecular weight polyethylene wear particles from total hip replacements [see comments] Campbell P, et al. **Proc Inst Mech Eng [H]** 1996;210(3):167–74. Comment in: Proc Inst Mech Eng [H] 1996 ;210(3):137–40.

Replacement of the hip [editorial; comment] Dowson D. **Proc Inst Mech Eng [H]** 1996;210(3):137–40. Comment on: Proc Inst Mech Eng [H] 1996 ;210(3):141–55. Comment on: Proc Inst Mech Eng [H] 1996 ;210(3):167–74. Comment on: Proc Inst Mech Eng [H] 1996 ;210(3):175–85. Comment on: Proc Inst Mech Eng [H] 1996 ;210(3):197–207. Comment on: Proc Inst Mech Eng [H] 1996 ;210(3):209–16.

Wear in retrieved Charnley acetabular sockets[see comments] Hall RM, et al. **Proc Inst Mech Eng [H]** 1996; 210(3):197–207. Comment in: Proc Inst Mech Eng [H] 1996 ;210(3):137–40.

An investigation into the origins of time-dependent variation in penetration rates with Charnley acetabular cups--wear, creep or degradation?[see comments] Isaac GH, et al. **Proc Inst Mech Eng [H]** 1996;210(3):209–16. Comment in: Proc Inst Mech Eng [H] 1996 ;210(3):137–40.

Analysis of fluid film lubrication in artificial hip joint replacements with surfaces of high elastic modulus. Jin ZM, et al. **Proc Inst Mech Eng [H]** 1997;211(3):247–56

The wear of ultra-high molecular weight polyethylene sliding on metallic and ceramic counterfaces representative of current femoral surfaces in joint replacement. Lancaster JG, et al. **Proc Inst Mech Eng [H]** 1997;211(1):17–24

Frictional heating of bearing materials tested in a hip joint wear simulator. Lu Z, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):101–8

Kinematics of the MATCO hip simulator and issues related to wear testing of metal-metal implants. Medley JB, et al. **Proc Inst Mech Eng [H]** 1997;211(1):89–99

An automated method for assessing routine radiographs of patients with total hip replacements. Redhead AL, et al. **Proc Inst Mech Eng [H]** 1997;211(2):145–54

A three-axis hip joint simulator for wear and friction studies on total hip prostheses [see comments] Saikko VO. **Proc Inst Mech Eng [H]** 1996;210(3):175–85. Comment in: Proc Inst Mech Eng [H] 1996 ;210(3):137–40.

Clinical wear behaviour of ultra-high molecular weight polyethylene cups paired with metal and ceramic ball heads in comparison to metal-on-metal pairings of hip joint replacements. Semlitsch M, et al. **Proc Inst Mech Eng [H]** 1997;211(1):73–88

Application of numerical descriptors to the characterization of wear particles obtained from joint replacements. Stachowiak GW, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):1–10

The influence of the stem-cement interface in total hip replacement--a comparison of experimental and finite element approaches. Wheeler JP, et al. **Proc Inst Mech Eng [H]** 1997;211(2):181–6

From the RSNA refresher courses. Total hip arthroplasty: radiographic evaluation. Manaster BJ. **Radiographics** 1996 May;16(3):645–60 (16 ref.)

Modified technique for fluid aspiration from the hip in patients with prosthetic hips. Brandser EA, et al. **Radiology** 1997 Aug;204(2):580–2

Imaging of total hip replacement. Weissman BN. **Radiology** 1997 Mar;202(3):611–23 (96 ref.)

The cost and benefit of prophylaxis against deep vein thrombosis in elective hip replacement. DVT/PE Prophylaxis Consensus Forum. Abdool-Carrim T, et al. **S Afr Med J** 1997 May;87(5):594–600 (5 ref.)

Basic fibroblast growth factor (bFGF) in the synovial-like membrane around loose total hip prostheses. Waris V, et al. **Scand J Rheumatol** 1996;25(4):257–62

Health-related quality of life after total hip replacement. Towheed TE, et al. **Semin Arthritis Rheum** 1996 Aug; 26(1):483–91 (42 ref.)

Effectiveness of perioperative epoetin alfa in patients scheduled for elective hip surgery. Laupacis A. **Semin Hematol** 1996 Apr;33(2 Suppl 2):51–3; discussion 54

Effectiveness of perioperative epoetin alfa in patients scheduled for elective hip surgery. Laupacis A. **Semin Hematol** 1997 Apr;33(2 Suppl 2):51–3; discussion 54

Epoetin alfa increases the volume of autologous blood donated by patients scheduled to undergo orthopedic surgery. Mercuriali F. **Semin Hematol** 1996 Apr;33(2 Suppl 2):10–2; discussion 13–4

Recombinant hirudin in the prevention of venous thromboembolism in patients undergoing elective hip surgery. Agnelli G, et al. **Semin Thromb Hemost** 1997; 23(2):143–8

Bone remodeling around cementless hip implants. Bugbee WD, et al. **South Med J** 1996 Nov;89(11):1036–40

Negligence in a good practice. Avery JK. **Tenn Med** 1996 Nov;89(11):400–1

Coagulation activation markers in the prediction of venous thrombosis after elective hip surgery. Cofrancesco E, et al. **Thromb Haemost** 1997 Feb;77(2):267–9

Use of epidural anesthesia in non-cardiac surgery in two cases complicated by hypertrophic cardiomyopathy. Takaya T, et al. **Tokai J Exp Clin Med** 1996 Oct;21(3):113–5

Effects on complement activation of a new continuous autotransfusion system. Bengtsson A, et al. **Transfus Med** 1997 Jun;7(2):107–13

A point score system for predicting the likelihood of blood transfusion after hip or knee arthroplasty. Larocque BJ, et al. **Transfusion** 1997 May;37(5):463–7

Comparison between intravenous and subcutaneous recombinant human erythropoietin (Epoetin alfa) administration in presurgical autologous blood donation in anemic rheumatoid arthritis patients undergoing major orthopedic surgery. Mercuriali F, et al. **Vox Sang** 1997; 72(2):93–100

[Influence of local air suction on the density of air-borne bacteria during cementation of alloplasties] Enggaard TP, et al. **Ugeskr Laeger** 1997 Feb 10;159(7):952–5 (Eng. Abstr.) **(Dan)**

[Long-term results after Charnley hip replacement] Sørensen KH, et al. **Ugeskr Laeger** 1996 Dec 9;158(50):7228–32 (Eng. Abstr.) **(Dan)**

[Dislocation-dissociation of a bipolar hip prosthesis] Corteel J, et al. **Acta Orthop Belg** 1996 Sep;62(3):173–6 (Eng. Abstr.) **(Fre)**

[Radiological study of the migration of prosthetic implants following hip arthroplasty] Lemaire R, et al. **Acta Orthop Belg** 1996;62 Suppl 1:124–31 (Eng. Abstr.) **(Fre)**

[Fatigue rupture of a Harris-Galante shell in contact with an autograft of the femur head. Analysis of bone, mechanical and metallurgical factors] Migaud H, et al. **Acta Orthop Belg** 1996 Sep;62(3):168–72 (Eng. Abstr.) **(Fre)**

[Labeled leukocyte scintigraphy and total hip prosthesis] Van FT, et al. **Acta Orthop Belg** 1996 Dec;62(4):212–7 (Eng. Abstr.) **(Fre)**

[Total hip prostheses, friction lever and wear] Hernigou P, et al. **Chirurgie** 1997;122(3):229–31 (Eng. Abstr.) **(Fre)**

[Experimental protocol for mechanical characterization of a femoral implant of carbon-Peek composite hip prosthesis in fatigue] Soyer J. **Chirurgie** 1997 Jan;121(9–10):658–62 (Eng. Abstr.) **(Fre)**

[Value of combined spinal and epidural anesthesia in the management of peroperative analgesia in prosthetic surgery of the lower limb. Prospective study of 68 cases] Cazeneuve JF, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(8):705–8 (Eng. Abstr.) **(Fre)**

[Long-term review of homogeneous and consecutive series of 100 "Charnley"-type total hip prostheses] Gardes P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996; 82(4):306–12 (Eng. Abstr.) **(Fre)**

[Total hip prosthesis for chronic juvenile arthritis. A review of a series of 34 prosthesis] Journeau P, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):508–21 (Eng. Abstr.) **(Fre)**

[Can preoperative lung function diagnosis detect risk of intraoperative pulmonary gas exchange insufficiency in artificial hip replacement with polymethylmethacrylate cement?] Höltermann W, et al. **Anaesthesiol Reanim** 1996; 21(5):122–6 (Eng. Abstr.) **(Ger)**

[Neurologic complications following total endoprothesis implantation of the hip under peridural catheter anesthesia] Christ F, et al. **Anaesthesist** 1996 Dec;45(12):1192–5 (Eng. Abstr.) **(Ger)**

[Results of autologous blood donation in orthopedic hip and knee joint replacement] Adams HA, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1997 May; 32(5):283–90 (Eng. Abstr.) **(Ger)**

[Tolerating extreme intraoperative blood loss by a Jehovah's Witness patient] Busse J, et al. **Anasthesiol Intensivmed Notfallmed Schmerzther** 1996 Oct; 31(8):498–501 **(Ger)**

[Effect of surface energy on wear characteristics of material combinations for the artificial hip joint] Huber J, et al. **Biomed Tech (Berl)** 1996 Jan-Feb;41(1–2):32–4 (Eng. Abstr.) **(Ger)**

[Is Hylamer a suitable substance for use in endoprosthetics?] Jerosch J, et al. **Biomed Tech (Berl)** 1996 Dec;41(12):341–6 (Eng. Abstr.) **(Ger)**

[Design considerations for improving the acetabular cup of the ESKA hip endoprosthesis by using the ceramic/ceramic wear couple] Quack G, et al. **Biomed Tech (Berl)** 1996 Sep;41(9):253–9 (0 ref.) (Eng. Abstr.) **(Ger)**

[Wear behavior of coupled aluminum oxide ceramics-carbon fiber bond as hip acetabulum inlay in a simulated trial] Scheller G, et al. **Biomed Tech (Berl)** 1996 Dec; 41(12):338–40 (Eng. Abstr.) **(Ger)**

[Fully automated generation of hip prosthesis voxel models of the femur for finite element analysis. Comparison of direct and subsequent prosthesis implantation] Schmitt J, et al. **Biomed Tech (Berl)** 1997 Jun;42(6):150–5 (Eng. Abstr.) **(Ger)**

[The ESKA femoral neck prosthesis--an alternative to standard endoprosthesis of the hip joint for patients of younger age groups] Scholz J, et al. **Biomed Tech (Berl)** 1996 Dec;41(12):347–50 (Eng. Abstr.) **(Ger)**

[Ceramic acetabulum components for hip endoprostheses. 2: Evaluating design and safety] Willmann G, et al. **Biomed Tech (Berl)** 1996 Oct;41(10):284–90 (Eng. Abstr.) **(Ger)**

[Preoperative planning in hip endoprosthetics: presenting a computer-assisted system using CAD software] Ramsperger R, et al. **Chirurg** 1996 Jul;67(7):734–9 (Eng. Abstr.) **(Ger)**

[Animal study: robot-assisted vs. manually rasped endoprosthesis] Bauer A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:465–9 (Eng. Abstr.) **(Ger)**

[Surgery of bone metastases in advanced age?] Grabbe F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996; 113:925–7 (Eng. Abstr.) **(Ger)**

[Cement-free management of femoral neck fractures in elderly patients with poor cardiopulmonary prognosis] Knipprath J, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:981–2 (Eng. Abstr.) **(Ger)**

[Use of allogeneic cortical bone for femoral defect repair in combination with cemented hip total endoprosthesis--an experimental study of dogs] Ott K, et al.

Langenbecks Arch Chir Suppl Kongressbd 1997;114:459–64 (Eng. Abstr.) **(Ger)**

[Computer-guided robot-assisted hip endoprosthesis] Börner M, et al. **Orthopade** 1997 Mar;26(3):251–7 (Eng. Abstr.) **(Ger)**

[Tribological properties of carbon fiber-reinforced plastic. Experimental and clinical results] Früh HJ, et al. **Orthopade** 1997 Feb;26(2):152–9 (Eng. Abstr.) **(Ger)**

[Single-image roentgen analysis for the measurement of hip endoprosthesis migration] Krismer M, et al. **Orthopade** 1997 Mar;26(3):229–36 (38 ref.) (Eng. Abstr.) **(Ger)**

[Experimental studies of metal-metal slide combinations and their value in relation to expected in-vivo behavior] Plitz W, et al. **Orthopade** 1997 Feb;26(2):135–41 (Eng. Abstr.) **(Ger)**

[Comparative experimental studies on rigidity, deformation and blunting behavior of various total hip endoprostheses under dynamic load] Seifert H. **Orthopade** 1997 Feb; 26(2):166–80 (Eng. Abstr.) **(Ger)**

[Changes in shape of the McKee-Farrar hip endoprosthesis] Täger G, et al. **Orthopade** 1997 Feb;26(2):142–51 (Eng. Abstr.) **(Ger)**

[Contact surface and pressure load at implant-bone interface in press-fit cups compared to natural hip joints] Widmer KH, et al. **Orthopade** 1997 Feb;26(2):181–9 (Eng. Abstr.) **(Ger)**

[CT osteodensitometry in the area immediate to hip endoprostheses] Sokiranski R, et al. **Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr** 1996 Nov;165(5):455–61 (Eng. Abstr.) **(Ger)**

[Replacement of total hip prosthesis--what does the patient expect? Analysis of 248 aseptic hip revisions] Brunazzi MG, et al. **Schweiz Med Wochenschr** 1996 Nov 23; 126(47):2013–20 (Eng. Abstr.) **(Ger)**

[Postoperative radiotherapy in the prevention of heterotopic ossification after endoprosthetic hip joint replacement] Heyd R, et al. **Strahlenther Onkol** 1996 Oct;172(10):543–52 (Eng. Abstr.) **(Ger)**

[Long-term outcome of managing medial femoral neck fractures with ceramic head endoprostheses] Degreif J, et al. **Unfallchirurg** 1996 Oct;99(10):744–9 (Eng. Abstr.) **(Ger)**

[Intramedullary pressure reduction in the femur shaft in total hip endoprosthesis. Effect on the rate of thrombosis] Eisele R, et al. **Unfallchirurg** 1997 Jun;100(6):438–42 (Eng. Abstr.) **(Ger)**

[Vascular lesions in surgery of the hip joint] Fruhwirth J, et al. **Unfallchirurg** 1997 Feb;100(2):119–23 (Eng. Abstr.) **(Ger)**

[Treatment concepts of femoral fractures after total endoprosthetic replacement of the hip or knee joint: intra- or extramedullary stabilization?] Hopf C, et al. **Unfallchirurg** 1996 Jan;99(1):31–7 (Eng. Abstr.) **(Ger)**

[Radiologic evaluation of acetabular defects on acetabular loosening of hip alloarthroplasty] Jerosch J, et al. **Unfallchirurg** 1996 Oct;99(10):727–33 (Eng. Abstr.) **(Ger)**

[Paraproctic fistula in acetabulum loosening after implantation of a total hip endoprosthesis. A rare complication] Loggen B, et al. **Unfallchirurg** 1997 May; 100(5):402–5 (Eng. Abstr.) **(Ger)**

[Criteria for radiologic evaluation of cement-free hip endoprostheses exemplified by the Spotorno shaft] Ludwig FJ, et al. **Unfallchirurg** 1996 Oct;99(10):750–7 (Eng. Abstr.) **(Ger)**

[Preparation and technique for surgical treatment of 225 acetabulum fractures. 2 year results of 175 cases] Rommens PM, et al. **Unfallchirurg** 1997 May;100(5):338–48 (Eng. Abstr.) **(Ger)**

[Arterial vascular lesions after total hip joint replacement] Schätzler A, et al. **Unfallchirurg** 1997 Jul;100(7):531–5 (Eng. Abstr.) **(Ger)**

[Effects of continuous cryotherapy on the surgically traumatized musculoskeletal system. Perioperative Cryotherapy Study Group] Albrecht S, et al. **Unfallchirurgie** 1996 Aug;22(4):168–75 (Eng. Abstr.) **(Ger)**

[Slit drainage in hip endoprosthesis--also an alternative in trauma surgery? A prospective follow-up study] Graupe F, et al. **Unfallchirurgie** 1996 Oct;22(5):223–7 (Eng. Abstr.) **(Ger)**

[Results before and after introduction of perioperative antibiotic prophylaxis in hip joint prostheses treatment of geriatric patients] Kaiser W, et al. **Unfallchirurgie** 1996 Aug;22(4):153–9 (Eng. Abstr.) **(Ger)**

[Replacement of hip prostheses--technical aspects and personal results] Peterson T, et al. **Unfallchirurgie** 1996 Aug;22(4):160–7 (Eng. Abstr.) **(Ger)**

[Geriatric orthopedic treatment of Jehovah's Witnesses?] Schulz R, et al. **Versicherungsmedizin** 1997 Apr 1;49(2):52–5 (Eng. Abstr.) **(Ger)**

[Cryotherapy as analgesic technique in direct, postoperative treatment following elective joint replacement] Albrecht S, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb;135(1):45–51 (Eng. Abstr.) **(Ger)**

[Autologous transfusion in total hip endoprosthesis--a clinical concept] Bang-Vojdanovski B, et al. **Z Orthop Ihre Grenzgeb** 1997 May-Jun;135(3):252–7 (Eng. Abstr.) **(Ger)**

[Validity and reproducibility of osteodensitometric DEXA-measurements following total hip endoprosthesis] Martini F, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb; 135(1):35–9 (Eng. Abstr.) **(Ger)**

[Comparison between low-molecular and unfractionated heparin in the prevention of thrombosis in patients with total endoprosthetic replacement of hip and knee joint] Rader CP, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb; 135(1):52–7 (Eng. Abstr.) **(Ger)**

[Intertrochanteric flexion osteotomy and allo-arthroplasty in femur head necrosis. A comparative retrospective study] Rössig S, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan-Feb; 135(1):24–30 (Eng. Abstr.) **(Ger)**

[Prevention of heterotopic ossification following cementless hip replacement using 5 x 2 Gy fractionated irradiation. A prospective study] Sell S, et al. **Z Orthop Ihre Grenzgeb** 1996 Jul-Aug;134(4):375–80 (Eng. Abstr.) **(Ger)**

[Complication rate following trochanteric osteotomy in total hip endoprosthesis. A retrospective study with failure analysis] Simank HG, et al. **Z Orthop Ihre Grenzgeb** 1996 Sep-Oct;134(5):457–64 (Eng. Abstr.) **(Ger)**

[Femoral fracture following total hip replacement] Kligman M, et al. **Harefuah** 1997 Mar 2;132(5):327–9, 383 (Eng. Abstr.) **(Heb)**

[Introduction of definite molecular weight heparan sulfate in a protocol of prevention of deep venous thrombosis in prosthetic orthopedic surgery] Mandò M, et al. **Minerva Cardioangiol** 1996 Sep;44(9):457–60 (Eng. Abstr.) **(Ita)**

[Femoral densitometry as potential preoperative indicator for cementation of hip prosthesis] Baruffaldi F, et al. **Radiol Med (Torino)** 1996 Sep;92(3):193–8 (Eng. Abstr.) **(Ita)**

[Acute angle-closure glaucoma after total hip replacement surgery] Ujino H, et al. **Masui** 1997 Jun;46(6):823–6 (Eng. Abstr.) **(Jpn)**

[Aprotinin 2 million KIU reduces perioperative blood loss in patients undergoing primary total hip replacement] Utada K, et al. **Masui** 1997 Jan;46(1):77–82 (Eng. Abstr.) **(Jpn)**

[The combination therapy with vinca-alkaloid slow infusion and cholchicine was effective to refractory idiopathic thrombocytopenic purpura. The patient could receive femoral head replacement in safety] Nezu M, et al. **Rinsho Ketsueki** 1996 Feb;37(2):158–60 (Eng. Abstr.) **(Jpn)**

[The hip registry. Good economy for society] Engesaeter LB, et al. **Tidsskr Nor Laegeforen** 1996 Oct 20; 116(25):3025–7 (Eng. Abstr.) **(Nor)**

[Postoperative autologous transfusion in primary hip arthroplasties] Johansen S, et al. **Tidsskr Nor Laegeforen** 1996 Sep 30;116(23):2766–8 (Eng. Abstr.) **(Nor)**

[Use of bone grafts in acetabular wall deficit reconstruction during total hip replacement] Gaździk T. **Chir Narzadow Ruchu Ortop Pol** 1997;62(2):123–9 (Eng. Abstr.) **(Pol)**

[Cefamandole for perioperative prophylaxis in total hip alloplasty] Jackowiak M, et al. **Chir Narzadow Ruchu Ortop Pol** 1997;62(1):55–8 (Eng. Abstr.) **(Pol)**

[Reconstruction of the acetabular roof in cemented total hip replacement] Król R. **Chir Narzadow Ruchu Ortop Pol** 1996;61(4):371–7 (Eng. Abstr.) **(Pol)**

[Endoprosthesis of the hip joint] Levenets VN. **Klin Khir** 1995;(1):22–4 **(Rus)**

[The biomechanical characteristics of the hip joint during endoprosthesis] Neverov VA, et al. **Vestn Khir Im I I Grek** 1995;154(4–6):38–42 (Eng. Abstr.) **(Rus)**

[Arthroplasty in the treatment of congenital anomalies of the hip in adults] Savić D, et al. **Med Pregl** 1997 Mar-Apr; 50(3–4):120–3 (Eng. Abstr.) **(Scr)**

[Clinical results and perceived health among patients with hip prosthesis] Martí Valls J, et al. **Med Clin (Barc)** 1997 May 10;108(18):691–5 (Eng. Abstr.) **(Spa)**

[Cardiovascular collapse after cemented prosthesis: bone cement or a massive embolism? (letter)] Figueira A, et al. **Rev Esp Anestesiol Reanim** 1996 Nov;43(9):339–40 **(Spa)**

[Transesophageal echocardiography during total arthroplasty of the hip (letter)] Hurtado-Martín J, et al. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):223–4 **(Spa)**

[Ventilatory management during anesthesia in the patient with congenital cardiopathy undergoing non-cardiac surgery (letter; comment)] Reinoso-Barbero F. **Rev Esp Anestesiol Reanim** 1996 Jun-Jul;43(6):222. Comment on: Rev Esp Anestesiol Reanim 1995 Oct;42(8):336–40. **(Spa)**

ADVERSE EFFECTS

Low- or high-vacuum drains in hip arthroplasty? A randomized study of 73 patients. Benoni G, et al. **Acta Orthop Scand** 1997 Apr;68(2):133–7

Hip and knee arthroplasty infection. In-111-IgG scintigraphy in 102 cases. Nijhof MW, et al. **Acta Orthop Scand** 1997 Aug;68(4):332–6

Intracapsular pressure and loosening of hip prostheses. Preoperative measurements in 18 hips. Robertsson O, et al. **Acta Orthop Scand** 1997 Jun;68(3):231–4

The role of aspiration and contrast-enhanced arthrography in evaluating the uncemented hip arthroplasty. Cheung A, et al. **AJR Am J Roentgenol** 1997 May;168(5):1305–9

Perioperative complications in patients with sickle cell disease. An orthopedic perspective. Garden MS, et al. **Am J Orthop** 1996 May;25(5):353–6

Clinical results and survival of cementless revisions after 49 to 93 months. Savilahti S, et al. **Ann Chir Gynaecol** 1996; 85(4):340–6

Subcutaneous low-molecular-weight heparin vs warfarin for prophylaxis of deep vein thrombosis after hip or knee implantation. An economic perspective [see comments] Hull RD, et al. **Arch Intern Med** 1997 Feb 10; 157(3):298–303. Comment in: ACP J Club 1997 Jul-Aug;127(1):24.

A comparison of compression ultrasound with color Doppler ultrasound for the diagnosis of symptomless postoperative deep vein thrombosis. Lensing AW, et al. **Arch Intern Med** 1997 Apr 14;157(7):765–8

Three-to 7-year results with the uncemented SL femoral revision prosthesis. Grünig R, et al. **Arch Orthop Trauma Surg** 1997;116(4):187–97

Measuring stability of wire cerclage in femoral fractures when performing total hip replacement. In vitro study on a standardized bone model. Wagner M, et al. **Arch Orthop Trauma Surg** 1996;115(1):33–7

Metal-on-metal articulation in total hip arthroplasty: preliminary results in 57 cases. Randle R, et al. **Aust N Z J Surg** 1997 Sep;67(9):634–6

Comparison of the size and morphology of UHMWPE wear debris produced by a hip joint simulator under serum and water lubricated conditions. Wang A, et al. **Biomaterials** 1996 May;17(9):865–71

Cellulitis after hip surgery: long-term follow-up of seven cases. Studer-Sachsenberg EM, et al. **Br J Dermatol** 1997 Jul;137(1):133–6

Haematuria and vesico-cutaneous fistula after hip surgery. Memon FR, et al. **Br J Urol** 1997 Jun;79(6):1005–6

Incidence of deep sepsis in uncemented total hip arthroplasty using clean air facility as a function of antibiotic prophylaxis. Hauser R, et al. **Bull Hosp Jt Dis** 1996; 54(3):175–9

Mennen plate in hip and shoulder joint replacement. Kligman M, et al. **Bull Hosp Jt Dis** 1997;56(2):84–7

Cement implantation syndrome: a time limited embolic phenomenon [editorial; comment] Byrick RJ. **Can J Anaesth** 1997 Feb;44(2):107–11. Comment on: Can J Anaesth 1997 Feb;44(2):112–7. **(Eng, Fre)**

Clinical features and echocardiography of embolism during cemented hip arthroplasty [see comments] Lafont ND, et al. **Can J Anaesth** 1997 Feb;44(2):112–7. Comment in: Can J Anaesth 1997 Feb;44(2):107–11.

Cardiovascular collapse after femoral prosthesis surgery for acute hip fracture. Pietak S, et al. **Can J Anaesth** 1997 Feb; 44(2):198–201

Sarcoma of bone-cement membrane: a case report and review of the literature. Bell RS, et al. **Can J Surg** 1997 Feb; 40(1):51–5 (32 ref.)

Interleukin-1 and collagenases around loosening total hip prostheses. Konttinen YT, et al. **Clin Exp Rheumatol** 1996 May-Jun;14(3):255–62

Staphylococcus aureus prosthetic joint infection treated with debridement and prosthesis retention. Brandt CM, et al. **Clin Infect Dis** 1997 May;24(5):914–9

Tc-99m stannous colloid-labeled leukocyte scintigraphy in the evaluation of the painful arthroplasty. Chik KK, et al. **Clin Nucl Med** 1996 Nov;21(11):838–43

Synovial cyst formation complicating total hip arthroplasty: a case report. DeFrang RD, et al. **Clin Orthop** 1996 Apr; (325):163–7 (23 ref.)

Comparative study of total hip arthroplasty between younger and older patients. Kobayashi S, et al. **Clin Orthop** 1997 Jun;(339):140–51

Outcome after reinfection following reimplantation hip arthroplasty. Pagnano MW, et al. **Clin Orthop** 1997 May; (338):192–204

Effects of particles on fibroblast proliferation and bone resorption in vitro. Shanbhag AS, et al. **Clin Orthop** 1997 Sep;(342):205–17

Psoriasis is a risk factor for hip-prosthesis infection. Drancourt M, et al. **Eur J Epidemiol** 1997 Feb;13(2):205–7

Risk infection factors in the total hip replacement. Fernández Arjona M, et al. **Eur J Epidemiol** 1997 Jun;13(4):443–6

Fibrinolytic parameters in patients undergoing total hip replacement: relationship with the development of asymptomatic deep vein thrombosis and diagnostic usefulness of venous occlusion. Trotti R, et al. **Haematologica** 1997 Mar-Apr;82(2):178–81

Preoperative platelet count and postoperative blood loss in patients undergoing hip surgery: an inverse correlation. Monreal M, et al. **Haemostasis** 1996 May-Jun;26(3):164–9

Patient-related risk factors that predict poor outcome after total hip replacement. MacWilliam CH, et al. **Health Serv Res** 1996 Dec;31(5):623–38

Complications, comorbidities, and mortality: improving classification and prediction. Roos LL, et al. **Health Serv Res** 1997 Jun;32(2):229–38; discussion 239–42

Electrical stimulation-induced contraction to reduce blood stasis during arthroplasty. Faghri PD, et al. **IEEE Trans Rehabil Eng** 1997 Mar;5(1):62–9

Fracture of the neck of a femoral component in a total hip arthroplasty: a case report. Artime V, et al. **Int Orthop** 1997;21(1):56–8

Uncemented revision stem for biological osteosynthesis in periprosthetic femoral fractures. Eingartner C, et al. **Int Orthop** 1997;21(1):25–9

Massive osteolysis induced by high molecular weight polyethylene wear debris. Nizegorodcew T, et al.

Int Orthop 1997;21(1):14–8

The frequency, prognosis and significance of nerve injuries in total hip arthroplasty. Oldenburg M, et al. **Int Orthop** 1997;21(1):1–3

Simultaneous fracture of the femur and the femoral stem following total hip replacement. A case report. Tanchev PI, et al. **Int Orthop** 1996;20(3):182–4

Fatality from disseminated intravascular coagulation complicating total hip arthroplasty: a case report. Sporer SM, et al. **Iowa Orthop J** 1997;17:53–7

One stage surgical management of deep infection of total hip arthroplasty. Mulcahy DM, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):17–9

Changes in femoral cortical dimensions after uncemented revision hip arthroplasty. Radiological results with the porous-coated bi-metric femoral stem prosthesis in 15 asymptomatic cases. Adolphson P. **J Arthroplasty** 1996 Aug;11(5):572–81

Short-course indomethacin prevents heterotopic ossification in a high-risk population following total hip arthroplasty. Amstutz HC, et al. **J Arthroplasty** 1997 Feb;12(2):126–32

Dislodgement of the femoral component of a total hip arthroplasty presenting through the buttock. Ashworth MJ, et al. **J Arthroplasty** 1997 Aug;12(5):589–90

Dislocation after bipolar hemiarthroplasty of the hip. Barnes CL, et al. **J Arthroplasty** 1995 Oct;10(5):667–9

Treatment of early symptomatic pulmonary embolism after total joint arthroplasty. Bicalho PS, et al. **J Arthroplasty** 1996 Aug;11(5):522–4

Cementless revision of total hip arthroplasty using the anatomic porous replacement revision prosthesis. Buoncristiani AM, et al. **J Arthroplasty** 1997 Jun; 12(4):403–15

Visual analog scale for the assessment of total hip arthroplasty. de Nies F, et al. **J Arthroplasty** 1997 Jun; 12(4):416–9

Aspiration as a guide to sepsis in revision total hip arthroplasty. Fehring TK, et al. **J Arthroplasty** 1996 Aug; 11(5):543–7

Influence of surgical approach on dislocations after Charnley hip arthroplasty. Hedlundh U, et al. **J Arthroplasty** 1995 Oct;10(5):609–14

Fractures through cystic lesions of the greater trochanter. A cause of late pain after cementless total hip arthroplasty. Heekin RD, et al. **J Arthroplasty** 1996 Sep;11(6):757–60

Large amounts of polyethylene debris in the interface tissue surrounding bipolar endoprostheses. Comparison to total hip prostheses. Kim KJ, et al. **J Arthroplasty** 1997 Jan; 12(1):32–9

Migration of porous press-fit cups in hip revision arthroplasty. A radiostereometric 2-year follow-up study of 60 hips. Nivbrant B, et al. **J Arthroplasty** 1996 Jun; 11(4):390–6

Synovial tissue examination by frozen section as an indicator of infection in hip and knee arthroplasty in community hospitals. Pace TB, et al. **J Arthroplasty** 1997 Jan;12(1):64–9

Compartment syndrome of the buttock following a total hip arthroplasty. Pai VS. **J Arthroplasty** 1996 Aug;11(5):609–10

Surgical maneuvers placing the sciatic nerve at risk during total hip arthroplasty as assessed by somatosensory evoked potential monitoring. Pereles TR, et al. **J Arthroplasty** 1996 Jun;11(4):438–44

Functional leg-length inequality following total hip arthroplasty. Ranawat CS, et al. **J Arthroplasty** 1997 Jun; 12(4):359–64

Periprosthetic metastatic carcinoma. Pitfalls in the management of two cases initially diagnosed as osteolysis. Schmidt AH, et al. **J Arthroplasty** 1996 Aug;11(5):613–9

Complications of a cable grip system. Silverton CD, et al. **J Arthroplasty** 1996 Jun;11(4):400–4

Closed reduction for total hip arthroplasty dislocation. The Tulsa technique. Vosburgh CL, et al. **J Arthroplasty** 1995 Oct;10(5):693–4

Natural history of femoral focal osteolysis with proximal ingrowth smooth stem implant. Wan Z, et al. **J Arthroplasty** 1996 Sep;11(6):718–25

Does total hip arthroplasty predispose to chronic venous insufficiency? Warwick D, et al. **J Arthroplasty** 1996 Aug; 11(5):529–33

Porous pad separation and loosening of Harris-Galante femoral hip components. Woolson ST, et al. **J Arthroplasty** 1996 Jun;11(4):474–7

Radiation risk estimation based on activity measurements of zirconium oxide implants. Porstendörfer J, et al. **J Biomed Mater Res** 1996 Dec;32(4):663–7

Prevention of thromboembolism with use of recombinant hirudin. Results of a double-blind, multicenter trial comparing the efficacy of desirudin (Revasc) with that of unfractionated heparin in patients having a total hip replacement. Eriksson BI, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):326–33

Obturator nerve palsy due to fixation of an acetabular reinforcement ring with transacetabular screws. A case report. Fricker RM, et al. **J Bone Joint Surg Am** 1997 Mar; 79(3):444–6

Sciatic neuropathy secondary to intrapelvic migration of an acetabular cup. A case report. Isiklar ZU, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1395–7

Fistula between the hip and the sigmoid colon after total hip arthroplasty. A case report. Levin JS, et al. **J Bone Joint Surg Am** 1997 Aug;79(8):1240–2

The efficacy of prophylaxis with low-dose warfarin for prevention of pulmonary embolism following total hip arthroplasty. Lieberman JR, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):319–25

The reliability of analysis of intraoperative frozen sections for identifying active infection during revision hip or knee arthroplasty. Lonner JH, et al. **J Bone Joint Surg Am** 1996 Oct;78(10):1553–8

Polyethylene debris in lymph nodes [letter] Péoc'h M, et al. **J Bone Joint Surg Am** 1996 Nov;78(11):1784

Infection around joint replacements in patients who have a renal or liver transplantation. Tannenbaum DA, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):36–43

Maintenance of proximal cortical bone with use of a less stiff femoral component in hemiarthroplasty of the hip without cement. An investigation in a canine model at six months and two years. Turner TM, et al. **J Bone Joint Surg Am** 1997 Sep;79(9):1381–90

Ceramic-ceramic and metal-polyethylene total hip replacements: comparison of pseudomembranes after loosening. Lerouge S, et al. **J Bone Joint Surg Br** 1997 Jan;79(1):135–9

Subhepatic migration of a hip prosthesis. Muñoz Vives JM, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):152–3

Anterior compartment syndrome after revision hip arthroplasty. Nicholl JE, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):812–3

Bone cement and deep-vein thrombosis [letter; comment] Planes A, et al. **J Bone Joint Surg Br** 1996 Jan;78(1):166 . Comment on: J Bone Joint Surg Br 1995 Jul;77(4):668.

Damage to the superior gluteal nerve after the Hardinge approach to the hip. Ramesh M, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):903–6

Nerve injury after posterior and direct lateral approaches for hip replacement. A clinical and electrophysiological study. Weale AE, et al. **J Bone Joint Surg Br** 1996 Nov; 78(6):899–902

A prospective study of proximal femur bone mass following cemented and uncemented hip arthroplasty. Marchetti ME, et al. **J Bone Miner Res** 1996 Jul;11(7):1033–9

Unilateral hip replacement causes bilateral changes in tibial bone mineral content in a canine model. Smith AM, et al. **J Bone Miner Res** 1996 May;11(5):693–6

Thromboprophylaxis and death after total hip replacement. Force R. **J Fam Pract** 1997 Mar;44(3):248–9

Pasteurella multocida infection of a total hip arthroplasty following cat scratch. Takwale VJ, et al. **J Infect** 1997 May;34(3):263–4

Stem fracture in the VDP prosthesis [letter; comment] Simon JP. **J Orthop Trauma** 1996;10(7):515. Comment on: J Orthop Trauma 1995;9(4):292–7.

Transforming growth factor-beta 1 and 2 in the synovial-like interface membrane between implant and bone in loosening of total hip arthroplasty. Konttinen YT, et al. **J Rheumatol** 1997 Apr;24(4):694–701

Tissue inhibitor of metalloproteinase 1, collagenolytic and gelatinolytic activity in loose hip endoprostheses. Takagi M, et al. **J Rheumatol** 1995 Dec;22(12):2285–90

99Tc(m)-polyclonal IgG scintigraphy in the detection of infected hip and knee prostheses. Demirkol MO, et al. **Nucl Med Commun** 1997 Jun;18(6):543–8

Physician practices in the prevention of deep vein thrombosis: the MassPRO DVT Study. Anderson FA Jr, et al. **Orthopedics** 1996 Aug;19 Suppl:9–11

Candida albicans infection of prosthetic joints. Cardinal E, et al. **Orthopedics** 1996 Mar;19(3):247–51 (34 ref.)

Post-discharge prevention of deep vein thrombosis following total joint replacement. Fitzgerald RH Jr. **Orthopedics** 1996 Aug;19 Suppl:15–8

Back pain, femoral vein thrombosis, and an iliopsoas cyst: unusual presentation of a loose total hip arthroplasty. Morrison KM, et al. **Orthopedics** 1997 Apr;20(4):347–8

Periprosthetic fractures: early and late. Ries MD. **Orthopedics** 1997 Sep;20(9):798–800

Varus migration of PCA stems. Ries MD, et al. **Orthopedics** 1996 Jul;19(7):581–5; discussion 585–6

The pathogenesis of osteolysis in two different cementless hip replacements. Learmonth ID, et al. **Proc Inst Mech Eng [H]** 1997;211(1):59–63

Wear of the high-density polyethylene socket in total hip arthroplasty and its role in endosteal cavitation. Wroblewski BM. **Proc Inst Mech Eng [H]** 1997; 211(1):109–18

Prolonged thromboprophylaxis following hip replacement surgery—results of a double-blind, prospective, randomised, placebo-controlled study with dalteparin (Fragmin). Dahl OE, et al. **Thromb Haemost** 1997 Jan; 77(1):26–31

Inflammatory laboratory tests after joint replacement surgery. Kolstad K, et al. **Ups J Med Sci** 1995;100(3):243–8

Prevention of heterotopic bone formation after total hip arthroplasty using 600 rad in single dose in high risk patient. Han CD, et al. **Yonsei Med J** 1997 Apr;38(2):96–100

[Septic infection of hip joint prosthesis with Listeria monocytogenes] Hansen PS, et al. **Ugeskr Laeger** 1996 Oct 14;158(42):5949–50 (Eng. Abstr.) **(Dan)**

[Foreign bodies after total hip prosthesis] Cordonnier C, et al. **Ann Pathol** 1997 Apr;17(2):100–8 (65 ref.) **(Fre)**

[Radiological evaluation of integration of bone grafts and bone substitutes after implantation to replace acetabular substance losses in reoperation of total hip prosthesis] Boisgard S, et al. **Chirurgie** 1997;122(2):153–6 (Eng. Abstr.) **(Fre)**

[Wear and loosening of prostheses] Langlais F, et al. **Chirurgie** 1997;122(3):232–6 (Eng. Abstr.) **(Fre)**

[Uretero-acetabular fistula: report of a case] Villamizar J, et al. **Prog Urol** 1996 Dec;6(6):950–4 (Eng. Abstr.) **(Fre)**

[Embolism and intramedullary femoral surgery] Barre J, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1997;83(1):9–21 (Eng. Abstr.) **(Fre)**

[Treatment of femoral fractures on a total hip prosthesis using Charnley's "long stem" prosthesis. Apropos of 18 cases] Dumez JF, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(3):225–33 (Eng. Abstr.) **(Fre)**

[Systemic granulomatous reaction in hip prosthesis. Apropos of 2 anatomoclinical cases] Peoc'h M, et al. **Rev Chir Orthop Reparatrice Appar Mot** 1996;82(6):564–7 (Eng. Abstr.) **(Fre)**

[The use of radiotherapy in the prevention of heterotopic ossification in patients with total hip replacement] Marziano C, et al. **Radiol Med (Torino)** 1996 Dec;92(6):766–9 (Eng. Abstr.) **(Ita)**

[Vesico-acetabular fistula occurring 10 years after total hip replacement] Hamano S, et al. **Hinyokika Kiyo** 1996 Oct; 42(10):743–5 (6 ref.) (Eng. Abstr.) **(Jpn)**

[Clinical diagnosis of deep venous thrombosis after hip replacement surgery] Andreassen G, et al. **Tidsskr Nor Laegeforen** 1997 May 30;117(14):2026–7 (Eng. Abstr.) **(Nor)**

[Revision endoprosthesis (the complications of primary endoprosthesis)] Neverov VA, et al. **Vestn Khir Im I I Grek** 1996;155(4):94–6 (14 ref.) **(Rus)**

[Certain cases need prolonged thrombosis prophylaxis. Four studies on hip prosthesis are in concordance] Bergqvist D. **Lakartidningen** 1997 Mar 26;94(13):1173–4 **(Swe)**

[Primary hip arthroplasty in 14 Jehovah's witnesses. No complications related to bleeding were reported] Josefsson G. **Lakartidningen** 1996 Sep 18;93(38):3237–8 **(Swe)**

[Skip routine prophylaxis in total hip alloplasty! The orthopedic surgeons decide the risk of thrombosis from case to case] Persson BM. **Lakartidningen** 1997 Aug 6; 94(32–33):2754–6 **(Swe)**

ECONOMICS

Pharmacoeconomic model of enoxaparin versus heparin for prevention of deep vein thrombosis after total hip replacement. Hawkins DW, et al. **Am J Health Syst Pharm** 1997 May 15;54(10):1185–90

Intraoperative custom press-fit and standard press-fit femoral components in total hip arthroplasty. A comparison of surgery, charges, and early complications. Mathur SK, et al. **Am J Orthop** 1996 Jul;25(7):486–91

Need for radiologists to interpret orthopedic total joint radiographs [letter; comment] Hobbs BB, et al. **Can J Surg** 1997 Apr;40(2):147–8; discussion 150–1. Comment on: Can J Surg 1996 Oct;39(5):393–6.

Need for radiologists to interpret orthopedic total joint radiographs [letter; comment] Stolberg HO, et al. **Can J Surg** 1997 Apr;40(2):148–50; discussion 150–1. Comment on: Can J Surg 1996 Oct;39(5):393–6.

Thromboprophylaxis with low molecular weight heparin after major orthopaedic surgery is cost effective. Borris LC, et al. **Drugs** 1996;52 Suppl 7:42–6

Total hip replacement in the elderly: cost-effective alternatives. Evans BG, et al. **Instr Course Lect** 1994; 43:359–65 (40 ref.)

Cost of implanting a cemented versus cementless femoral stem. Barrack RL, et al. **J Arthroplasty** 1996 Jun; 11(4):373–6

Impact of declining reimbursement and rising hospital costs on the feasibility of total hip arthroplasty. Boardman DL, et al. **J Arthroplasty** 1997 Aug;12(5):526–34

Immediate surgery versus waiting list policy in revision total hip arthroplasty. An economic evaluation. Saleh KJ, et al. **J Arthroplasty** 1997 Jan;12(1):1–10

The total cost of hip-joint replacement; a model for purchasers. Pynsent PB, et al. **J Public Health Med** 1996 Jun;18(2):157–68

Revision total joint arthroplasty: does medicare reimbursement justify time spent? Ritter MA, et al. **Orthopedics** 1996 Feb;19(2):137–9

Average charges for a total hip arthroplasty: geographic variations, 1995. Mushinski M. **Stat Bull Metrop Insur Co** 1996 Oct–Dec;77(4):21–8

HISTORY

Richard C. Johnston, M.D. evaluator and practitioner of hip surgery. Callaghan JJ. **Iowa Orthop J** 1996;16:xii–xix

INSTRUMENTATION

Polyethylene wear in Scanhip arthroplasty with a 22 or 32 mm head [letter; comment] Hall RM, et al. **Acta Orthop Scand** 1997 Feb;68(1):87–8. Comment on: Acta Orthop Scand 1996 Apr;67(2):125–7.

Design of the femoral component for cementless hip replacement: the surgeon's perspective. Kelsey D, et al. **Am J Orthop** 1997 Jun;26(6):407–12

Revision total hip arthroplasty in deficient proximal femur using a distal load-bearing prosthesis. Suominen S, et al. **Ann Chir Gynaecol** 1996;85(3):253–62

Revision total hip replacement using the bias proximal porous-coated femoral component. Suominen S, et al.

Ann Chir Gynaecol 1996;85(4):347–51

Follow-up (6–9 years) results of the uncemented CLS Spotorno stem. Bulow JU, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):190–4

The ceramic cup type Lindenhof. Results 10–14 years after implantation. Gierse H, et al. **Arch Orthop Trauma Surg** 1996;115(3–4):167–70

Metal–on–metal articulation in total hip arthroplasty: preliminary results in 57 cases. Randle R, et al. **Aust N Z J Surg** 1997 Sep;67(9):634–6

Reinforcement of bone cement around the femoral prosthesis tip by pre–coated wire coil: a human cadaver bone study. Kim JK, et al. **Biomed Mater Eng** 1996;6(3):159–64

Acetabular screw rings and surface treatment. Delaunay CP, et al. **Clin Orthop** 1997 Jul;(340):130–41

Total hip replacements using the ceramic Mittelmeier prosthesis. Huo MH, et al. **Clin Orthop** 1996 Nov; (332):143–50

Design optimization of the hip nail–plate–screws implant. Elkholy AH. **Comput Methods Programs Biomed** 1995 Dec; 48(3):221–7

The contributions and limitations of hydroxyapatite coatings to implant fixation: A histomorphometric study of load bearing implants in dogs. Munting E. **Int Orthop** 1996; 20(1):1–6

Effect of a centralizing device on cement mantle deficiencies and initial prosthetic alignment in total hip arthroplasty. Berger RA, et al. **J Arthroplasty** 1997 Jun;12(4):434–43

Monitoring the integrity of the cement–metal interface of total joint components in vitro using acoustic emission and ultrasound. Davies JP, et al. **J Arthroplasty** 1996 Aug; 11(5):594–601

Wear of the polyethylene liner–metallic shell interface in modular acetabular components. An in vitro analysis. Lieberman JR, et al. **J Arthroplasty** 1996 Aug;11(5):602–8

High failure rate of soft–interface stem coating for fixation of femoral endoprostheses. Maathuis PG, et al. **J Arthroplasty** 1996 Aug;11(5):548–52

The fully hydroxyapatite–coated total hip implant. Clinical and roentgenographic results. Vedantam R, et al. **J Arthroplasty** 1996 Aug;11(5):534–42

Increased awareness of glove perforation in major joint replacement. A prospective, randomised study of Regent Biogel Reveal gloves. Nicolai P, et al. **J Bone Joint Surg Br** 1997 May;79(3):371–3

Comparison between two techniques for modeling interface conditions in a porous coated hip endoprosthesis. Hefzy MS, et al. **Med Eng Phys** 1997 Jan;19(1):50–62

Charnley wear model for validation of hip simulators—ball diameter versus polytetrafluoroethylene and polyethylene wear. Clarke IC, et al. **Proc Inst Mech Eng [H]** 1997; 211(1):25–36

Factors contributing to the wear of polyethylene in clinical practice. Learmonth ID, et al. **Proc Inst Mech Eng [H]** 1997;211(1):49–57

Long–term results and survivorship of Protasul 10 straight stem Müller femoral hip prosthesis. Kohler A, et al. **Swiss Surg** 1997;3(2):44–8

[Modularity of prostheses] Argenson JN, et al. **Chirurgie** 1997;122(3):220–3 (Eng. Abstr.) **(Fre)**

[Cementless fixation of the endoprosthesis using trabecular, 3–dimensional interconnected surface structures] Mittelmeier W, et al. **Orthopade** 1997 Feb;26(2):117–24 (Eng. Abstr.) **(Ger)**

[Ceramic–to–ceramic combination. Relic or renaissance?] Walter A. **Orthopade** 1997 Feb;26(2):110–6 (Eng. Abstr.) **(Ger)**

[In–vivo wear of the slide combinations ceramics–polyethylene as opposed to metal–polyethylene] Zichner L, et al. **Orthopade** 1997 Feb;26(2):129–34 (Eng. Abstr.) **(Ger)**

[Low loosening rate of a cemented titanium straight shaft prosthesis in long–term follow–up] Eingartner C, et al. **Swiss Surg** 1997;3(2):49–54 (Eng. Abstr.) **(Ger)**

[With the development of Jikei total hip arthroplasty] Murota K. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jul;70(7):391–8 (7 ref.) **(Jpn)**

[Murata–Chiba (MC) support ring for acetabular defect in rheumatoid hip] Suzuki M, et al. **Ryumachi** 1996 Jun; 36(3):574–9 (Eng. Abstr.) **(Jpn)**

[Experimental findings and a new screw endoprosthesis of the hip joint] Sherepo KM. **Med Tekh** 1996 Sep–Oct; (5):38–41 (Eng. Abstr.) **(Rus)**

METHODS

Minimum four–year radiographic and clinical evaluation of results following femoral revision surgery with the S–ROM modular hip system. Cossetto DJ, et al. **Acta Orthop Belg** 1996;62 Suppl 1:135–47

Femoral cortical sleeve in revision arthroplasty. 24 patients followed 2–10 years. Helwig U, et al. **Acta Orthop Scand** 1996 Oct;67(5):424–30

The Wagner revision stem for severe osteolysis. 31 hips followed for 1.5–5 years. Kolstad K, et al. **Acta Orthop Scand** 1996 Dec;67(6):541–4

Local wound and systemic coagulation/fibrinolysis responses in hip arthroplasty. Influence of allogeneic and autologous blood transfusion. Kristiansson ME, et al. **Acta Orthop Scand** 1997 Jun;68(3):221–4

Autotransfusion—bacterial contamination during hip arthroplasty and efficacy of cefuroxime prophylaxis. A randomized controlled study of 40 patients. Wollinsky KH, et al. **Acta Orthop Scand** 1997 Jun;68(3):225–30

Prohibitive failure rate of the total articular replacement arthroplasty at five to ten years. Treuting RJ, et al. **Am J Orthop** 1997 Feb;26(2):114–8

Revision total hip arthroplasty in deficient proximal femur using a distal load–bearing prosthesis. Suominen S, et al. **Ann Chir Gynaecol** 1996;85(3):253–62

Bipolar hip arthroplasty in ankylosing spondylitis. Bhan S, et al. **Arch Orthop Trauma Surg** 1996;115(2):94–9

The Wagner revision stem in alloarthroplasty of the hip. Hartwig CH, et al. **Arch Orthop Trauma Surg** 1996; 115(1):5–9

Acetabular supporting ring in total hip replacement. Panski A, et al. **Arch Orthop Trauma Surg** 1997;116(4):233–5

Advantage of the transprosthetic drainage system (TDS) for application in cemented hip arthroplasty—a standardized experimental comparison with other cementing techniques. Schmidt J, et al. **Arch Orthop Trauma Surg** 1996; 115(3–4):153–7

Results of the Müller acetabular reinforcement ring in revision arthroplasty. Stöckl B, et al. **Arch Orthop Trauma Surg** 1997;116(1–2):55–9

Femoral component fixation with and without intramedullary plug. A 6–year follow–up. Suominen S, et al. **Arch Orthop Trauma Surg** 1996;115(5):276–9

The role of bone traumatization in the initiation of proximal deep vein thrombosis during cemented hip replacement surgery in pigs. Dahl OE, et al. **Blood Coagul Fibrinolysis** 1995 Dec;6(8):709–17

The use of a cementless femoral component for the management of bone loss in revision hip arthroplasty. Michelinakis E, et al. **Bull Hosp Jt Dis** 1996;55(1):28–32

Primary uncemented Osteonics total hip arthroplasty: preliminary results of 2–6 year follow–up. Chen CY, et al. **Chang Keng I Hsueh** 1997 Jun;20(2):100–6

Pelvic lysis and polyethylene wear at 5–8 years in an uncemented total hip. Barrack RL, et al. **Clin Orthop** 1997 Feb;(335):211–7

Hybrid total hip arthroplasty: 7– to 10–year results. Berger RA, et al. **Clin Orthop** 1996 Dec;(333):134–46

Failure mechanisms of anatomic porous replacement I cementless total hip replacement. Dorr LD, et al. **Clin Orthop** 1997 Jan;(334):157–67

Total hip arthroplasty in patients with avascular necrosis of the femoral head: a 2– to 10–year follow–up. Garino JP, et al. **Clin Orthop** 1997 Jan;(334):108–15

Hybrid total hip arthroplasty: a 7– to 11–year followup. Goldberg VM, et al. **Clin Orthop** 1996 Dec;(333):147–54

Hybrid total hip replacement: rationale and intermediate clinical results. Harris WH. **Clin Orthop** 1996 Dec; (333):155–64 (72 ref.)

Charnley low friction arthroplasty in young patients with osteoarthritis. A 12– to 24–year clinical and radiographic followup study of 84 cases. Hartofilakidis G, et al. **Clin Orthop** 1997 Aug;(341):51–4

Stability of proximal femoral grafts in canine hip arthroplasty. Heiner JP, et al. **Clin Orthop** 1997 Aug;(341):233–40

Primary cementless hip arthroplasty with a titanium plasma sprayed prosthesis. Hozack WJ, et al. **Clin Orthop** 1996 Dec;(333):217–25

Hybrid primary total hip arthroplasty: a 5– to 9–year followup study. Lewallen DG, et al. **Clin Orthop** 1996 Dec; (333):126–33

Prosthetic replacement of the hip in dogs using bioactive bone cement. Matsuda Y, et al. **Clin Orthop** 1997 Mar; (336):263–77

Radiographic analysis of a cemented titanium alloy femoral component. Meding JB, et al. **Clin Orthop** 1997 Jan; (334):184–9

Rationale of a flexible press fit cup in total hip replacement. 5–year followup in 280 procedures. Morscher E, et al. **Clin Orthop** 1997 Aug;(341):42–50

Uncemented revision total hip arthroplasty: a 4–to–6–year review. Mulliken BD, et al. **Clin Orthop** 1996 Apr; (325):156–62

Acetabular and femoral fixation 15 years after cemented total hip surgery. Mulroy WF, et al. **Clin Orthop** 1997 Apr; (337):118–28

Trochanteric osteotomy and wire fixation: a comparison of 2 techniques. Nercessian OA, et al. **Clin Orthop** 1996 Dec; (333):208–16

Uncemented total hip arthroplasty in osteonecrosis: a 2– to 10–year evaluation. Stulberg BN, et al. **Clin Orthop** 1997 Jan;(334):116–23

Total hip arthroplasty in neglected congenital dislocation of the hip. Symeonides PP, et al. **Clin Orthop** 1997 Aug; (341):55–61

Reimplantation of infected hip arthroplasties using bone allografts. Wang JW, et al. **Clin Orthop** 1997 Feb; (335):202–10

Short term prophylaxis against heterotopic bone after cementless hip replacement. Wurnig C, et al. **Clin Orthop** 1997 Jan;(334):175–83

A more stable posterior approach for hemiarthroplasty of the hip. Williams CR, et al. **Injury** 1997 May;28(4):279–81

One stage revision arthroplasty of the hip for deep gram negative infection. Raut VV, et al. **Int Orthop** 1996; 20(1):12–4

A no–touch technique of loading bone cement for gun injection at total hip arthroplasty. Rice J, et al. **Ir J Med Sci** 1996 Jan–Mar;165(1):23

Normalized and proportionalized cemented femoral stem designs. A 10–year clinical study. Jaffe WL, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S39–44

Use of iliofemoral distraction in reducing high congenital dislocation of the hip before total hip arthroplasty. Lai KA, et al. **J Arthroplasty** 1996 Aug;11(5):588–93

Bone–graft augmentation for acetabular deficiencies in total hip arthroplasty. Results of long–term follow–up evaluation. Lee BP, et al. **J Arthroplasty** 1997 Aug; 12(5):503–10

Use of cemented all–polyethylene and metal–backed acetabular components in total hip arthroplasty. A comparative study. Markel DC, et al. **J Arthroplasty** 1995 Nov;10 Suppl:S1–7

Bone scintigraphic appearance of asymptomatic hydroxyapatite–coated hip arthroplasties. Moilanen T, et al. **J Arthroplasty** 1997 Jun;12(4):380–6

Effect of a stemless femoral implant for total hip arthroplasty on the bone mineral density of the proximal femur. A prospective longitudinal study. Munting E, et al. **J Arthroplasty** 1997 Jun;12(4):373–9

A technique of revision of failed acetabular components leaving the femoral component in situ. Neil MJ, et al. **J Arthroplasty** 1996 Jun;11(4):482–3

Appositional bone bridging of primary gaps in the dome area of uncemented, porous acetabular components. Onsten I. **J Arthroplasty** 1995 Oct;10(5):702–6

Vastus–Psoas release for acetabular exposure in revision hip surgery. Smith SW, et al. **J Arthroplasty** 1997 Aug; 12(5):568–71

Cemented revision total hip arthroplasties in patients younger than 55 years old. A multicenter evaluation of second–generation cementing technique. Strömberg CN, et al. **J Arthroplasty** 1996 Aug;11(5):489–99

Charnley total hip arthroplasty with use of improved techniques of cementing. The results after a minimum of fifteen years of follow–up [published erratum appears in J Bone Joint Surg Am 1997 Apr;79(4):635] Madey SM, et al. **J Bone Joint Surg Am** 1997 Jan;79(1):53–64

Periprosthetic bone remodelling after cementless total hip replacement. A prospective comparison of two different implant designs. Ang KC, et al. **J Bone Joint Surg Br** 1997 Jul;79(4):675–9

Long–term comparison of Charnley and Stanmore design total hip replacements. Britton AR, et al. **J Bone Joint Surg Br** 1996 Sep;78(5):802–8

Femoral canal occlusion in total hip replacement using a resorbable and flexible cement restrictor. Bulstra SK, et al. **J Bone Joint Surg Br** 1996 Nov;78(6):892–8

Radiological and survival comparison of four methods of fixation of a proximal femoral stem. Donnelly WJ, et al. **J Bone Joint Surg Br** 1997 May;79(3):351–60

Stanmore total hip replacement in younger patients: review of a group of patients under 50 years of age at operation. Emery DF, et al. **J Bone Joint Surg Br** 1997 Mar; 79(2):240–6

Cement–within–cement revision hip arthroplasty; should it be done? Li PL, et al. **J Bone Joint Surg Br** 1996 Sep; 78(5):809–11

Cement pressurisation during hip replacement. McCaskie AW, et al. **J Bone Joint Surg Br** 1997 May;79(3):379–84

Uncemented total arthroplasty in old quiescent infection of the hip. Wang JW. **J Formos Med Assoc** 1997 Aug; 96(8):634–40

Computer–integrated surgery. Lerner EJ. **N J Med** 1997 Jul; 94(7):49–50

Comparison of warfarin use in total knee replacement vs total hip replacement. Alexander G, et al. **Orthopedics** 1997 Feb; 20(2):117–20

Early outcome of total hip arthroplasty using the direct lateral vs the posterior surgical approach. Barber TC, et al. **Orthopedics** 1996 Oct;19(10):873–5

Survivorship analysis of acetabular revision in medial, lateral, and global primary osteoarthritis. Bissacotti JF, et al. **Orthopedics** 1995 Dec;18(12):1145–50

Hip resurfacing revisited. Buechel FF. **Orthopedics** 1996 Sep; 19(9):753–6

Reconstruction of major segmental loss of the proximal femur in revision total hip replacement. Chandler HP. **Orthopedics** 1997 Sep;20(9):801–3

What would you do? Challenges in hip surgery. Dorr LD, et al. **Orthopedics** 1996 Sep;19(9):819–21

Impaction autograft enhancement of femoral stem fixation in primary cementless THA. Keblish PA, et al. **Orthopedics** 1996 Sep;19(9):759–62

Cemented revision for femoral failure. Ling RS. **Orthopedics** 1996 Sep;19(9):763–4

Revision total hip arthroplasty. Failure mechanisms and outcomes. Malchau H. **Orthopedics** 1996 Sep;19(9):769–70

Five to 14–year follow up on cementless femoral revisions. Paprosky WG, et al. **Orthopedics** 1996 Sep;19(9):765–8

Prosthetic loosening after total hip arthroplasty diagnosis and management. Langlais F. **Rev Rhum Engl Ed** 1996 Nov; 63(10):659–69 (36 ref.)

[Should total hip prostheses be cemented?] Witvoet J. **Chirurgie** 1997;122(3):217–9 (Eng. Abstr.) **(Fre)**

[Use of a custom made femoral prosthesis in the treatment of a femoral agenesis] Arlaud JY, et al. **Int Orthop** 1996; 20(2):111–6 (Eng. Abstr.) **(Fre)**

[Hip endoprosthesis in young patients] Hartwig CH, et al. **Z Orthop Ihre Grenzgeb** 1997 Mar–Apr;135(2):Oa7–8 **(Ger)**

[Dislocation of total hip endoprosthesis with special reference

to various techniques] Kohn D, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan–Feb;135(1):40–4 (Eng. Abstr.) **(Ger)**

[The Göttinger minipig as an animal model in hip endoprosthesis. Anatomy, anesthesia, operation results] Thomsen M, et al. **Z Orthop Ihre Grenzgeb** 1997 Jan–Feb; 135(1):58–62 (Eng. Abstr.) **(Ger)**

[With the development of Jikei total hip arthroplasty] Murota K. **Nippon Seikeigeka Gakkai Zasshi** 1996 Jul;70(7):391–8 (7 ref.) **(Jpn)**

[A concept of need and construction of a hip joint prosthesis with isolation of the friction point from the tissue] Sherepo KM. **Med Tekh** 1996 Jul–Aug;(4):30–4 (Eng. Abstr.) **(Rus)**

MORTALITY

Complications, comorbidities, and mortality: improving classification and prediction. Roos LL, et al. **Health Serv Res** 1997 Jun;32(2):229–38; discussion 239–42

Relationship between mortality rates and hospital patient volume for Medicare patients undergoing major orthopaedic surgery of the hip, knee, spine, and femur. Taylor HD, et al. **J Arthroplasty** 1997 Apr;12(3):235–42

Causes of death after hip arthroplasty in primary arthrosis. Visuri T, et al. **J Arthroplasty** 1997 Jun;12(4):397–402

Thromboprophylaxis and death after total hip replacement. Force R. **J Fam Pract** 1997 Mar;44(3):248–9

[Living conditions and mortality in the elderly after surgical management of para-articular hip fractures] Reich I, et al. **Z Gerontol Geriatr** 1997 Jan–Feb;30(1):18–23 (Eng. Abstr.) **(Ger)**

NURSING

Intraoperative nursing care as experienced by surgical patients. Hankela S, et al. **AORN J** 1996 Feb;63(2):435–42

Engagement and detachment: understanding patients' experiences with nursing. Kralik D, et al. **J Adv Nurs** 1997 Aug;26(2):399–407

PSYCHOLOGY

Effect of preparatory information prior to elective total hip replacement on psychological coping outcomes. Gammon J, et al. **J Adv Nurs** 1996 Aug;24(2):303–8

Engagement and detachment: understanding patients' experiences with nursing. Kralik D, et al. **J Adv Nurs** 1997 Aug;26(2):399–407

Impaired quality of life 10 to 20 years after primary hip arthroplasty. Franzén H, et al. **J Arthroplasty** 1997 Jan; 12(1):21–4

Patients' expectations and satisfaction with total hip arthroplasty. Mancuso CA, et al. **J Arthroplasty** 1997 Jun; 12(4):387–96

Obesity and quality of life after primary hip arthroplasty [letter; comment] Nolan PC. **J Bone Joint Surg Br** 1996 Sep;78(5):855–6. Comment on: J Bone Joint Surg Br 1996 Jan;78(1):78–81.

Questionnaire on the perceptions of patients about total hip replacement [letter; comment] Wroblewski BM. **J Bone Joint Surg Br** 1996 Sep;78(5):856. Comment on: J Bone Joint Surg Br 1996 Mar;78(2):185–90.

REHABILITATION

Picking up the tab for rehabilitation care [letter; comment] Potter PJ. **Can Med Assoc J** 1996 Nov 1;155(9):1239. Comment on: Can Med Assoc J 1996 Jun 1;154(11):1737–9.

Effect of preparatory information prior to elective total hip replacement on post-operative physical coping outcomes. Gammon J, et al. **Int J Nurs Stud** 1996 Dec;33(6):589–604

The patient-specific index: asking patients what they want. Wright JG, et al. **J Bone Joint Surg Am** 1997 Jul; 79(7):974–83

Quality of life and functional ability in hip and knee replacements: a prospective study. Rissanen P, et al. **Qual Life Res** 1996 Feb;5(1):56–64

[Effect of inpatient rehabilitation measures on patients with total hip endoprostheses—evaluation 15 months after operation] Scherak O, et al. **Acta Med Austriaca** 1996; 23(4):142–5 (Eng. Abstr.) **(Ger)**

STANDARDS

Initial stability of a modular uncemented, porous-coated femoral stem: a mechanical study. Naidu SH, et al. **Am J Orthop** 1996 Dec;25(12):829–34

First clinical experience with a noninvasively extendable endoprosthesis: a limb-saving procedure in children suffering from a malignant bone tumor. Verkerke GJ, et al. **Artif Organs** 1997 May;21(5):413–7

A study of the combined effects of shelf ageing following irradiation in air and counterface roughness on the wear of UHMWPE. Besong AA, et al. **Biomed Mater Eng** 1997; 7(1):59–65

Micromotion, fit, and fill of custom made femoral stems designed with an automated process. Dujardin FH, et al. **Clin Orthop** 1996 Apr;(325):276–89

Comparative study of total hip arthroplasty between younger and older patients. Kobayashi S, et al. **Clin Orthop** 1997 Jun;(339):140–51

The Nicolas Andry award: comparative results of cemented and cementless total hip arthroplasty. Rorabeck CH, et al. **Clin Orthop** 1996 Apr;(325):330–44

Optimizing the outcome in primary hip replacement: continued excellence despite continual change. Duncan CP. **Instr Course Lect** 1994;43:297–8

Mathematical optimization of elastic properties: application to cementless hip stem design. Kuiper JH, et al. **J Biomech Eng** 1997 May;119(2):166–74

Axisymmetric finite element analysis of a debonded total hip stem with an unsupported distal tip. Norman TL, et al. **J Biomech Eng** 1996 Aug;118(3):399–404

Evidence-based choice of hip prostheses [editorial] Morris RW. **J Bone Joint Surg Br** 1996 Sep;78(5):691–3 (14 ref.)

Reduced length of stay and improved appropriateness of care with a clinical path for total knee or hip arthroplasty. Gregor C, et al. **Jt Comm J Qual Improv** 1996 Sep; 22(9):617–28

Measurement of wear in retrieved acetabular sockets. Hall RM, et al. **Proc Inst Mech Eng [H]** 1995;209(4):233–42

A pilot site experience: the first year of learning. Pigg JS. **Wis Med J** 1996 Feb;95(2):83–5

[Total hip replacement in the elderly patient: indications and results] Rodriguez A, et al. **Rev Med Liege** 1997 Apr; 52(4):278–84 (27 ref.) **(Fre)**

STATISTICS & NUMERICAL DATA

Devolution of hip and knee replacement surgery? [see comments] Coyte PC, et al. **Can J Surg** 1996 Oct; 39(5):373–8. Comment in: Can J Surg 1996 Oct;39(5):354–5.

Prosthetic component failures in hip arthroplasty surgery. Heck DA, et al. **J Arthroplasty** 1995 Oct;10(5):575–80

Temporal trends and geographic variations in surgical treatment of femoral neck fractures. Jaglal SB, et al. **J Trauma** 1997 Sep;43(3):475–9

TRENDS

Total hip replacement: the way forward [letter; comment] Sochart DH, et al. **Ann R Coll Surg Engl** 1996 Nov; 78(6):557. Comment on: Ann R Coll Surg Engl 1996 Mar;78(2):129–32.

Prevalence of hip problems in the population aged 55 years and over: access to specialist care and future demand for hip arthroplasty. Fear J, et al. **Br J Rheumatol** 1997 Jan; 36(1):74–6

[Basic research is handicapped by lack of funding. Bioimplants of ceramics—a vision of the future? (editorial)] Kempf U. **Fortschr Med** 1997 Apr 20;115(11):13–4 **(Ger)**

UTILIZATION

Increased incidence of primary total hip replacement in rural communities. Dunsmuir RA, et al. **BMJ** 1996 Nov 30; 313(7069):1370

Appropriateness of primary total hip and knee replacements in regions of Ontario with high and low utilization rates [see comments] van Walraven CV, et al. **Can Med Assoc J** 1996 Sep 15;155(6):697–706. Comment in: Can Med Assoc J 1996 Dec 1;155(11):1549–50.

Relationship between the volume of total hip replacements performed by providers and the rates of postoperative complications in the state of Washington. Kreder HJ, et al. **J Bone Joint Surg Am** 1997 Apr;79(4):485–94

The burden of waiting for hip and knee replacements in Ontario. Ontario Hip and Knee Replacement Project Team. Williams JI, et al. **J Eval Clin Pract** 1997 Feb;3(1):59–68

Variations in the performance of hip fracture procedures. Burns RB, et al. **Med Care** 1997 Mar;35(3):196–203

VETERINARY

Prospective evaluation of ground reaction forces in dogs undergoing unilateral total hip replacement. Budsberg SC, et al. **Am J Vet Res** 1996 Dec;57(12):1781–5

Osteosarcoma following total hip arthroplasty in a dog. Murphy ST, et al. **J Small Anim Pract** 1997 Jun;38(6):263–7

Osteosarcoma eight years after total hip arthroplasty. Roe SC, et al. **Vet Surg** 1996 Jan–Feb;25(1):70–4

The effect of surgical approach on femoral stem position in canine cemented total hip replacement. Wylie KB, et al. **Vet Surg** 1997 Jan–Feb;26(1):62–6

HIPPEL-LINDAU DISEASE

Familial non-VHL non-papillary clear-cell renal cancer [letter] Teh BT, et al. **Lancet** 1997 Mar 22;349(9055):848–9

Should endolymphatic sac tumors be considered part of the von Hippel-Lindau complex? Pathology case report. Tibbs RE Jr, et al. **Neurosurgery** 1997 Apr;40(4):848–55; discussion 855 (29 ref.)

COMPLICATIONS

Percutaneous vascular control for inferior vena cava thrombectomy. Kockelbergh RC, et al. **Br J Urol** 1997 Aug;80(2):351

Surgical management of the renal manifestations of von Hippel–Lindau disease: a review of a United Kingdom case series. Persad RA, et al. **Br J Urol** 1997 Sep;80(3):392–6

Pancreatic metastases from renal cell carcinoma in von Hippel–Lindau disease. Chambers TP, et al. **Clin Imaging** 1997 Jan–Feb;21(1):40–2

Normotensive bilateral pheochromocytoma with Lindau disease: case report. Otsuka F, et al. **Endocr J** 1996 Dec; 43(6):719–23

Carotid body paraganglioma in von Hippel–Lindau disease: a rare association. Zanelli M, et al. **Histopathology** 1996 Aug;29(2):178–81

Papillary adenoma of endolymphatic sac origin: a temporal bone tumor in von Hippel–Lindau disease. Case report. Ouallet JC, et al. **J Neurosurg** 1997 Sep;87(3):445–9 (11 ref.)

Endolymphatic sac tumors. A source of morbid hearing loss in von Hippel–Lindau disease. Manski TJ, et al. **JAMA** 1997 May 14;277(18):1461–6

Renal involvement in von Hippel–Lindau disease. Chauveau D, et al. **Kidney Int** 1996 Sep;50(3):944–51

Intrasellar paraganglioma: report of a case in a sibship of von Hippel–Lindau disease. Scheithauer BW, et al. **Neurosurgery** 1996 Feb;38(2):395–9 (26 ref.)

Epididymal cystadenomas in von Hippel–Lindau disease. Choyke PL, et al. **Urology** 1997 Jun;49(6):926–31

[Multiple clear cell kidney cysts and in situ renal clear cell carcinoma in a case of Hippel–Lindau disease] Bralet MP, et al. **Ann Pathol** 1996;16(3):207–9 (Eng. Abstr.) **(Fre)**

[Variety of pancreatic lesions observed in von Hippel–Lindau disease. Apropos of 8 cases] Hammel P, et al. **Gastroenterol Clin Biol** 1995 Dec;19(12):1011–7 (Eng. Abstr.) **(Fre)**

[Renal and adrenal involvement in von Hippel–Lindau disease: clinical features and therapeutic strategies] Chassagne S, et al. **Prog Urol** 1996 Dec;6(6):878–83 (Eng. Abstr.) **(Fre)**

[Bilateral renal cell carcinoma with extension into the vena cava associated with von Hippel–Lindau disease: a case report and review of the literature] Minamide M, et al. **Hinyokika Kiyo** 1996 May;42(5):361–4 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Case of von Hippel–Lindau disease with pancreatic exocrine dysfunction and benign biliary stenosis due to multiple pancreatic serous cystadenoma] Baba S, et al. **Nippon Naika Gakkai Zasshi** 1996 Oct 10;85(10):1765–7 **(Jpn)**

DIAGNOSIS

Renal cysts, renal cancer and von Hippel–Lindau disease [editorial] Neumann HP, et al. **Kidney Int** 1997 Jan; 51(1):16–26 (94 ref.)

Von Hippel–Lindau disease: an important differential diagnosis of polycystic kidney disease. Browne G, et al. **Nephrol Dial Transplant** 1997 Jun;12(6):1132–6

[Hemangioblastoma: description of a disease picture and report of 41 cases] Zimmermann M, et al. **Zentralbl Neurochir** 1997;58(1):1–6 (Eng. Abstr.) **(Ger)**

[The Hippel–Lindau syndrome is often misdiagnosed and its frequency underestimated] Neumann HP. **Orv Hetil** 1996 Jun 2;137(22):1191–5 (30 ref.) (Eng. Abstr.) **(Hun)**

[Current status of clinical diagnosis and DNA test of von Hippel–Lindau disease in Japan] Shuuin T, et al. **Gan To Kagaku Ryoho** 1997 Jun;24(8):938–44 (Eng. Abstr.) **(Jpn)**

EPIDEMIOLOGY

A genetic register for von Hippel–Lindau disease. Maddock IR, et al. **J Med Genet** 1996 Feb;33(2):120–7

[The Hippel–Lindau syndrome is often misdiagnosed and its frequency underestimated] Neumann HP. **Orv Hetil** 1996 Jun 2;137(22):1191–5 (30 ref.) (Eng. Abstr.) **(Hun)**

GENETICS

Molecular genetic analysis of the von Hippel–Lindau disease tumor suppressor gene in familial and sporadic cerebellar hemangioblastomas. Tse JY, et al. **Am J Clin Pathol** 1997 Apr;107(4):459–66

Somatic inactivation of the VHL gene in Von Hippel–Lindau disease tumors [see comments] Prowse AH, et al. **Am J Hum Genet** 1997 Apr;60(4):765–71. Comment in: Am J Hum Genet 1997 Apr;60(4):751–4.

Aberrant methylation in cancer [editorial; comment] Versteeg R. **Am J Hum Genet** 1997 Apr;60(4):751–4. Comment on: Am J Hum Genet 1997 Apr;60(4):765–71.

Allelic deletions of the VHL gene detected in multiple microscopic clear cell renal lesions in von Hippel–Lindau disease patients. Lubensky IA, et al. **Am J Pathol** 1996 Dec;149(6):2089–94

Pancreatic endocrine tumors with loss of heterozygosity at the multiple endocrine neoplasia type I locus. Eubanks PJ, et al. **Am J Surg** 1997 Jun;173(6):518–20

Familial pheochromocytoma due to mutant von Hippel–Lindau disease gene [letter] Mulvihill JJ, et al. **Arch Intern Med** 1997 Jun 23;157(12):1390–1

von Hippel–Lindau disease and familial polyposis coli in the same family. Kilmartin DJ, et al. **Arch Ophthalmol** 1996 Oct;114(10):1294

Inherited renal cell carcinoma. Maher ER. **Br J Urol** 1996 Oct;78(4):542–5 (45 ref.)

The phakomatoses: recent advances in genetics. MacDonald IM, et al. **Can J Ophthalmol** 1997 Feb;32(1):4–11 (81 ref.)

The von Hippel–Lindau tumor suppressor gene. A rare and intriguing disease opening new insight into basic mechanisms of carcinogenesis. Decker HJ, et al. **Cancer Genet Cytogenet** 1997 Jan;93(1):74–83 (127 ref.)

Establishment and characterization of a renal cell carcinoma line from a patient with von Hippel–Lindau syndrome. Morash BA, et al. **Cancer Genet Cytogenet** 1997 Jul 1; 96(1):50–7

Von Hippel–Lindau syndrome: hereditary cancer arising

from inherited mutations of the VHL tumor suppressor gene. Humphrey JS, et al. **Cancer Treat Res** 1996;88:13-39 (81 ref.)

Molecular diagnosis of von Hippel-Lindau disease in a kindred with a predominance of familial phaeochromocytoma. Garcia A, et al. **Clin Endocrinol (Oxf)** 1997 Mar;46(3):359-63

Screening for renal carcinoma associated mutations in the von Hippel-Lindau tumor suppressor gene by temperature gradient gel electrophoresis. Wenzel M, et al. **Electrophoresis** 1997 Jan;18(1):45-51

Expression of the von Hippel-Lindau disease tumour suppressor gene during human embryogenesis. Richards FM, et al. **Hum Mol Genet** 1996 May;5(5):639-44

Genetic predisposition to phaeochromocytoma: analysis of candidate genes GDNF, RET and VHL. Woodward ER, et al. **Hum Mol Genet** 1997 Jul;6(7):1051-6

Germline mutations in the Von Hippel-Lindau disease (VHL) gene in families from North America, Europe, and Japan. Zbar B, et al. **Hum Mutat** 1996;8(4):348-57

von Hippel-Lindau gene deletion detected in the stromal cell component of a cerebellar hemangioblastoma associated with von Hippel-Lindau disease. Vortmeyer AO, et al. **Hum Pathol** 1997 May;28(5):540-3

Isolated familial pheochromocytoma as a variant of von Hippel-Lindau disease. Ritter MM, et al. **J Clin Endocrinol Metab** 1996 Mar;81(3):1035-7

Genotype-phenotype correlation in von Hippel-Lindau disease: identification of a mutation associated with VHL type 2A. Chen F, et al. **J Med Genet** 1996 Aug;33(8):716-7

Mutations in the RET proto-oncogene and the von Hippel-Lindau disease tumour suppressor gene in sporadic and syndromic phaeochromocytomas. Eng C, et al. **J Med Genet** 1995 Dec;32(12):934-7

Detection of germline mutations in the von Hippel-Lindau disease gene by the primer specified restriction map modification method. Kishida T, et al. **J Med Genet** 1995 Dec;32(12):938-41

von Hippel-Lindau disease gene alterations associated with endolymphatic sac tumor [letter] Vortmeyer AO, et al. **J Natl Cancer Inst** 1997 Jul 2;89(13):970-2

Regulation of vascular endothelial growth factor by hypoxia and its modulation by the von Hippel-Lindau tumor suppressor gene. Levy AP, et al. **Kidney Int** 1997 Feb; 51(2):575-8 (28 ref.)

Detection of von Hippel-Lindau disease gene mutations in paraffin-embedded sporadic renal cell carcinoma specimens. Zhuang Z, et al. **Mod Pathol** 1996 Aug; 9(8):838-42

Polymerase chain reaction-single-strand conformation polymorphism analysis for the VHL gene in chemically induced kidney tumors of rats using intron-derived primers. Shiao YH, et al. **Mol Carcinog** 1997 Aug;19(4):230-5

The molecular basis of von Hippel-Lindau disease. Iliopoulos O, et al. **Mol Med** 1997 May;3(5):289-93 (43 ref.)

Mutational state of von Hippel-Lindau and adenomatous polyposis coli genes in renal tumors. Suzuki H, et al. **Oncology** 1997 May-Jun;54(3):252-7

[Hippel-Lindau syndrome. Clinical and genetic aspects of angiomatosis retinae (editorial)] Brauch H. **Klin Monatsbl Augenheilkd** 1997 Mar;210(3):aA1 **(Ger)**

PATHOLOGY

Von Hippel-Lindau's disease: report of three cases and review of the literature. Bleggi-Torres LF, et al. **Arq Neuropsiquiatr** 1995 Dec;53(4):782-8 (27 ref.)

RADIOGRAPHY

von Hippel-Lindau disease. Catteeuw R, et al. **J Belge Radiol** 1996 Dec;79(6):265

SURGERY

Pars plana vitrectomy in von Hippel Lindau disease [letter] Mulholland DA, et al. **Eye** 1996;10 (Pt 6):758-9

Successful surgical removal of an asymptomatic optic nerve hemangioblastoma in von Hippel-Lindau disease. Raila FA, et al. **J Neuroimaging** 1997 Jan;7(1):48-50 (23 ref.)

Clinicopathologic correlation of argon laser photocoagulation of retinal angiomas in a patient with von Hippel-Lindau disease followed for more than 20 years. Rosa RH Jr, et al. **Retina** 1996;16(2):145-56

Management of pancreatic lesions in von Hippel-Lindau disease. Cheng TY, et al. **World J Surg** 1997 Mar-Apr; 21(3):307-12 (24 ref.)

[Perioperative management of a patient with bilateral renal cell cancer and large vena caval tumor thrombosis] Yokoyama T, et al. **Masui** 1996 Sep;45(9):1149-52 (Eng. Abstr.) **(Jpn)**

ULTRASONOGRAPHY

[Role of echography in the diagnosis, screening, and follow-up of patients with von Hippel-Lindau syndrome] De Thomasis R, et al. **Arch Ital Urol Androl** 1996 Dec;68(5 Suppl):207-10 (Eng. Abstr.) **(Ita)**

HIPPOCAMPAL FORMATION see **HIPPOCAMPUS**

HIPPOCAMPUS

see related
ENTORHINAL CORTEX

CT, MRI, and PET in a case of intractable epilepsy. Metsähonkala L, et al. **Childs Nerv Syst** 1996 Jul; 12(7):421-4

A comparison of behavioural effects and morphological features of grafts rich in cholinergic neurons placed in two sites of the denervated rat hippocampus. Hofferer E, et al. **Exp Brain Res** 1996 Sep;111(2):187-207

Implications of increased intercellular variability of lipofuscin content with age in dentate gyrus granule cells in the mouse. Moore WA, et al. **Gerontology** 1995;41 Suppl 2:187-99

Memories of a sea horse [editorial] Brumback RA, et al. **J Child Neurol** 1996 Jul;11(4):263-4

N-Type calcium channels in the developing rat hippocampus: subunit, complex, and regional expression. Jones OT, et al. **J Neurosci** 1997 Aug 15;17(16):6152-64

The effects of hippocampal and area parahippocampalis lesions in pigeons: I. Delayed matching to sample. Colombo M, et al. **Q J Exp Psychol B** 1997 May;50(2):149-71

The effects of hippocampal and area parahippocampalis lesions in pigeons: II. Concurrent discrimination and spatial memory. Colombo M, et al. **Q J Exp Psychol B** 1997 May; 50(2):172-89

[Fornix transection stimulates locus coeruleus neurons transplanted in the rat hippocampus to increase noradrenaline] Furui E. **Rinsho Shinkeigaku** 1996 Apr; 36(4):557-61 (Eng. Abstr.) **(Jpn)**

ABNORMALITIES

Severe seizures in young children are associated with hippocampal neuron losses and aberrant mossy fiber sprouting during fascia dentata postnatal development. Mathern GW, et al. **Epilepsy Res Suppl** 1996;12:33-43

Retarded formation of the hippocampal commissure in embryos from mouse strains lacking a corpus callosum. Livy DJ, et al. **Hippocampus** 1997;7(1):2-14

ANATOMY & HISTOLOGY

MR determination of hippocampal volume: comparison of three methods. Hasboun D, et al. **AJNR Am J Neuroradiol** 1996 Jun-Jul;17(6):1091-8

PTSD and hippocampal volume [letter; comment] van Berkestijn JW, et al. **Am J Psychiatry** 1996 Dec; 153(12):1657-8; discussion 1658-9. Comment on: Am J Psychiatry 1995 Jul;152(7):973-81.

PTSD and hippocampal volume [letter; comment] Warden D, et al. **Am J Psychiatry** 1996 Dec;153(12):1657; discussion 1658-9. Comment on: Am J Psychiatry 1995 Jul;152(7):973-81.

Survival, regeneration and sprouting of central neurons: the rat septohippocampal projection as a model. Frotscher M, et al. **Anat Anz** 1996 Aug;178(4):311-5 (33 ref.)

Food storing does not affect hippocampal volume in experienced adult willow tits. Cristol DA. **Behav Brain Res** 1996 Nov;81(1-2):233-6

Hippocampal volume in migratory and non-migratory warblers: effects of age and experience. Healy SD, et al. **Behav Brain Res** 1996 Nov;81(1-2):61-8

No sex difference occurs in hippocampus, food-storing, or memory for food caches in black-capped chickadees. Petersen K, et al. **Behav Brain Res** 1996 Sep;79(1-2):15-22

Hippocampal morphology in the inbred mouse strains NZB and CBA/H and their reciprocal congenics for the nonpseudoautosomal region of the Y chromosome. Guillot PV, et al. **Behav Genet** 1996 Jan;26(1):1-5

Hippocampal morphology and open-field behavior in Mus musculus domesticus and Mus spretus inbred mice. Laghmouch A, et al. **Behav Genet** 1997 Jan;27(1):67-73

Slow-wave activity in the spectral analysis of the electroencephalogram and volumes of hippocampus in subgroups of Alzheimer's disease patients. Helkala EL, et al. **Behav Neurosci** 1996 Dec;110(6):1235-43

Relative hippocampal volume in relation to food-storing behavior in four species of woodpeckers. Volman SF, et al. **Brain Behav Evol** 1997;49(2):110-20

Preservation of dendrites with the presence of reorganized mossy fiber collaterals in hippocampal dentate granule cells in patients with temporal lobe epilepsy. Isokawa M. **Brain Res** 1997 Jan 9;744(2):339-43

Comparative, in vitro, studies of hippocampal tissue from homing and non-homing pigeon. Shapiro E, et al. **Brain Res** 1996 Jul 1;725(2):199-206

The hippocampo-neocortical dialogue. Buzsáki G. **Cereb Cortex** 1996 Mar-Apr;6(2):81-92 (116 ref.)

Hippocampal volumetry with magnetic resonance imaging: a cost-effective validated solution. Chee MW, et al. **Epilepsia** 1997 Apr;38(4):461-5

Cortical and hippocampal volume deficits in temporal lobe epilepsy. Marsh L, et al. **Epilepsia** 1997 May;38(5):576-87

Genetic variation in the morphology of the septo-hippocampal cholinergic and GABAergic systems in mice: II. Morpho-behavioral correlations. Schwegler H, et al. **Hippocampus** 1996;6(5):535-45

A novel volumetric feature extraction technique with applications to MR images. Ashton EA, et al. **IEEE Trans Med Imaging** 1997 Aug;16(4):365-71 (23 ref.)

Functional anatomy of human hippocampal formation and related structures. Braak H, et al. **J Child Neurol** 1996 Jul; 11(4):265-75 (100 ref.)

Morphology and distribution of electrophysiologically defined classes of pyramidal and nonpyramidal neurons in rat ventral subiculum in vitro. Greene JR, et al. **J Comp Neurol** 1997 Apr 14;380(3):395-408

Reciprocal entorhinal-hippocampal connections established by human fetal midgestation. Hevner RF, et al. **J Comp Neurol** 1996 Aug 26;372(3):384-94

Secretoneurin: a market in rat hippocampal pathways. Schwarzer C, et al. **J Comp Neurol** 1997 Jan 6;377(1):29-40

Efferent connectivity of the hippocampal formation of the zebra finch (Taenopygia guttata): an anterograde pathway tracing study using Phaseolus vulgaris leucoagglutinin. Székely AD, et al. **J Comp Neurol** 1996 Apr 29; 368(2):198-214

Dimensions and density of dendritic spines from rat dentate granule cells based on reconstructions from serial electron micrographs. Trommald M, et al. **J Comp Neurol** 1997 Jan 6;377(1):15-28

A novel type of GABAergic interneuron connecting the input and the output regions of the hippocampus. Ceranik K, et al. **J Neurosci** 1997 Jul 15;17(14):5380-94

MRI volumetry of the hippocampus: the effect of slice thickness on volume formation. Laakso MP, et al. **Magn Reson Imaging** 1997;15(2):263-5

Quantitation of normal canine hippocampus formation volume: correlation of MRI with gross histology. Vullo T, et al. **Magn Reson Imaging** 1996;14(6):657-62

Increased dendritic extent in hippocampal CA1 neurons from aged F344 rats. Pyapali GK, et al. **Neurobiol Aging** 1996 Jul-Aug;17(4):601-11

Hippocampus. Normal magnetic resonance imaging anatomy with volumetric studies. Hui F, et al. **Neuroimaging Clin N Am** 1997 Feb;7(1):11-30 (104 ref.)

Hippocampal formation size predicts declining memory performance in normal aging. Golomb J, et al. **Neurology** 1996 Sep;47(3):810-3

Apolipoprotein E epsilon 4 allele and hippocampal volume in twins with normal cognition. Plassman BL, et al. **Neurology** 1997 Apr;48(4):985-9

Species and sex differences in hippocampus size in parasitic and non-parasitic cowbirds. Reboreda JC, et al. **Neuroreport** 1996 Jan 31;7(2):505-8

The dorsal locus coeruleus is larger in male than in female Sprague-Dawley rats. Babstock D, et al. **Neurosci Lett** 1997 Mar 21;224(3):157-60

Dense GABAergic input on somata of parvalbumin-immunoreactive GABAergic neurons in the hippocampus of the mouse. Fukuda T, et al. **Neurosci Res** 1996 Oct;26(2):181-94

Synaptic effects of identified interneurons innervating both interneurons and pyramidal cells in the rat hippocampus. Cobb SR, et al. **Neuroscience** 1997 Aug;79(3):629-48

The fimbria-fornix/cingular bundle pathways: a review of neurochemical and behavioural approaches using lesions and transplantation techniques. Cassel JC, et al. **Prog Neurobiol** 1997 Apr;51(6):663-716 (556 ref.)

The dopaminergic mesencephalic projections to the hippocampal formation in the rat. Gasbarri A, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Jan; 21(1):1-22 (95 ref.)

Three-dimensional hippocampal MR morphometry with high-dimensional transformation of a neuroanatomic atlas. Haller JW, et al. **Radiology** 1997 Feb;202(2):504-10

BLOOD SUPPLY

Extended studies on the effect of glutamate antagonists on ischemic CA-1 damage. Diemer NH, et al. **Acta Neurochir Suppl (Wien)** 1996;66:73-5

Molecular correlates of delayed neuronal death following transient forebrain ischemia in the rat. Wiessner C, et al. **Acta Neurochir Suppl (Wien)** 1996;66:1-7

Effect of CNTF on ischaemic cell damage in rat hippocampus. Ogata N, et al. **Acta Neurochir (Wien)** 1996; 138(5):580-3

Mild hypothermia fails to protect late hippocampal neuronal loss following forebrain cerebral ischaemia in rats. Tasdemiroglu E. **Acta Neurochir (Wien)** 1996;138(5):570-8; discussion 578-9

Participation of cathepsins B, H, and L in perikaryal condensation of CA1 pyramidal neurons undergoing apoptosis after brief ischemia. Nitatori T, et al. **Adv Exp Med Biol** 1996;389:177-85

Delayed neuronal death in ischemic hippocampus involves stimulation of protein tyrosine phosphorylation. Ohtsuki T, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1085-97

Neuroprotective effects of dexmedetomidine in the gerbil hippocampus after transient global ischemia. Kuhmonen J, et al. **Anesthesiology** 1997 Aug;87(2):371-7

Nesting and shredding behavior as an indicator of hippocampal ischemic damage. Antonawich FJ, et al. **Brain Res** 1997 Aug 1;764(1-2):249-52

Vasodilatory actions of calcitonin gene-related peptide and nitric oxide in parenchymal microvessels of the rat hippocampus. Fergus A, et al. **Brain Res** 1995 Oct 2; 694(1-2):78-84

Expression of hsp70 mRNA is induced in the brain of transgenic mice overexpressing human CuZn-superoxide dismutase following transient global cerebral ischemia. Kondo T, et al. **Brain Res** 1996 Oct 21;737(1-2):321-6

Intraischemic hypothermia during pretreatment with

sublethal ischemia reduces the induction of ischemic tolerance in the gerbil hippocampus. Wada K, et al. **Brain Res** 1997 Jan 23;746(1-2):301-4

Delayed neuronal death prevented by inhibition of increased hydroxyl radical formation in a transient cerebral ischemia. Yamamoto T, et al. **Brain Res** 1997 Jul 11;762(1-2):240-2

Global ischemia induces downregulation of Glur2 mRNA and increases AMPA receptor-mediated Ca2+ influx in hippocampal CA1 neurons of gerbil. Gorter JA, et al. **J Neurosci** 1997 Aug 15;17(16):6179-88

Insulin-like growth factor-1 attenuates apoptosis in hippocampal neurons caused by cerebral ischemia and reperfusion in stroke-prone spontaneously hypertensive rats. Tagami M, et al. **Lab Invest** 1997 May;76(5):613-7

Low power laser irradiation reduces ischemic damage in hippocampal slices in vitro. Iwase T, et al. **Lasers Surg Med** 1996;19(4):465-70

Arterial supply to the hippocampal formation. Huang YP, et al. **Neuroimaging Clin N Am** 1997 Feb;7(1):31-50

Effect of L-arginine and NG-nitro-L-arginine on delayed neuronal death in the gerbil hippocampus. Nakagomi T, et al. **Neurol Res** 1997 Aug;19(4):426-30

Post-ischemic treatment with a lazaroid (U74389G) prevents transient global ischemic damage in rat hippocampus. Tseng MT, et al. **Neurol Res** 1997 Aug;19(4):431-4

Protective effect of vagus nerve stimulation on forebrain ischaemia in gerbil hippocampus. Masada T, et al. **Neuroreport** 1996 Jan 31;7(2):446-8

Tonic protein kinase C-mediated vasoconstriction is unmasked when nitric oxide synthase is inhibited in cerebral microvessels. Fergus A, et al. **Neuroscience** 1996 Oct; 74(3):927-34

Cerebral blood flow related to induction of a depressed mood within and out of the realm of attention in normal volunteers. De Raedt R, et al. **Psychiatry Res** 1997 Jul 4;74(3):159-71

Surgical extirpation of the posterior hippocampal arteriovenous malformation. Kikuchi H, et al. **Surg Neurol** 1997 Mar;47(3):251-6; discussion 256-7

[Evaluation of regional cerebral blood flow in hippocampus by 99mTc-ECD SPECT: comparison with 123I-IMP SPECT] Matsumura K, et al. **Kaku Igaku** 1996 Sep; 33(9):1021-6 (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Cell cycle markers in the hippocampus in Alzheimer's disease. Nagy Z, et al. **Acta Neuropathol (Berl)** 1997 Jul; 94(1):6-15

Developmental changes of glutamate receptors in the rat cerebral cortex and hippocampus. Arai Y, et al. **Anat Embryol (Berl)** 1997 Jan;195(1):65-70

Modulation of interleukin-1 receptors in the brain-endocrine-immune axis by stress and infection. Takao T, et al. **Brain Behav Immun** 1995 Dec;9(4):276-91

Expression of glucocorticoid and mineralocorticoid receptors in an immortalized hippocampal neuronal cell line. Beaman-Hall CM, et al. **Brain Res** 1996 Jul 8; 726(1-2):141-52

Mossy fibre reorganization in the hippocampus of prion protein null mice. Colling SB, et al. **Brain Res** 1997 Apr 25;755(1):28-35

Pharmacologic blockade of non-NMDA receptors at deep prepiriform cortex attenuates heat shock protein expression in global ischemia. Kawaguchi K, et al. **Brain Res** 1997 Jan 23;746(1-2):59-62

The amiloride-sensitive Na+/H+ exchange antiporter and control of intracellular pH in hippocampal brain slices. Lin CW, et al. **Brain Res** 1996 Aug 26;731(1-2):108-13

Differential expression of the small chondroitin/dermatan sulfate proteoglycans decorin and biglycan after injury of the adult rat brain. Stichel CC, et al. **Brain Res** 1995 Dec 18;704(2):263-74

Enhancement of immunoreactivity for NF-kappa B in the hippocampal formation and cerebral cortex of Alzheimer's disease. Terai K, et al. **Brain Res** 1996 Sep 30;735(1):159-68

Regulation of glucocorticoid and mineralocorticoid receptor mRNAs in the hippocampus of the maternally deprived infant rat. Vázquez DM, et al. **Brain Res** 1996 Aug 26; 731(1-2):79-90

Brain-derived peptides inhibit synaptic transmission via presynaptic GABAB receptors in CA1 area of rat hippocampal slices. Xiong H, et al. **Brain Res** 1996 Oct 21;737(1-2):188-94

Vicia villosa agglutinin labels a subset of neurons coexpressing both the mu opioid receptor and parvalbumin in the developing rat subiculum. Bausch SB, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):169-77

Delayed localization of synelfin (synuclein, NACP) to presynaptic terminals in cultured rat hippocampal neurons. Withers GS, et al. **Brain Res Dev Brain Res** 1997 Mar 17; 99(1):87-94

Immunoreactivity for GABA plasma membrane transporter, GAT-1, in the developing rat cerebral cortex: transient presence in the somata of neocortical and hippocampal neurons. Yan XX, et al. **Brain Res Dev Brain Res** 1997 Mar 17;99(1):1-19

Glutamate AMPA receptors in the fascia dentata of human and kainate rat hippocampal epilepsy. Babb TL, et al. **Epilepsy Res** 1996 Dec;26(1):193-205

Perisynaptic location of metabotropic glutamate receptors mGluR1 and mGluR5 on dendrites and dendritic spines in the rat hippocampus. Lujan R, et al. **Eur J Neurosci** 1996 Jul;8(7):1488-500

Expression of AMPA-glutamate receptor B subunit in rat hippocampal GABAergic neurons. Racca C, et al. **Eur J Neurosci** 1996 Aug;8(8):1580-90

Effects of 5-HT1A receptor antagonists on hippocampal 5-hydroxytryptamine levels: (S)-WAY100135, but not WAY100635, has partial agonist properties. Assié MB, et al. **Eur J Pharmacol** 1996 May 23;304(1-3):15-21

Hippocampal and cerebellar extracellular amino acids during pilocarpine-induced seizures in freely moving rats. Smolders I, et al. **Eur J Pharmacol** 1997 Jan 14;319(1):21-9

Glycine causes increased excitability and neurotoxicity by activation of NMDA receptors in the hippocampus. Newell DW, et al. **Exp Neurol** 1997 May;145(1):235-44

Endothelin-like immunoreactivity in hippocampus following transient global cerebral ischemia. I. Neuronal and glial cells. Gajkowska B. **Folia Neuropathol** 1997;35(1):36-48

Endothelin-like immunoreactivity in hippocampus following transient global cerebral ischemia. II. The blood-brain interphase. Gajkowska B, et al. **Folia Neuropathol** 1997; 35(1):49-59

Hippocampal NPY neurons project to the fascia dentata in organotypic cultures. Mitchell J, et al. **Hippocampus** 1996; 6(2):173-82

Postnatal development of zinc-containing cells and neuropil in the hippocampal region of the mouse. Slomianka L, et al. **Hippocampus** 1997;7(3):321-40

Distribution of neurofilament protein and calcium-binding proteins parvalbumin, calbindin, and calretinin in the canine hippocampus. Hof PR, et al. **J Chem Neuroanat** 1996 Jul; 11(1):1-12

Kappa opioid receptor-like immunoreactivity in guinea pig brain: ultrastructural localization in presynaptic terminals in hippocampal formation. Drake CT, et al. **J Comp Neurol** 1996 Jul 1;370(3):377-95

Development of cholinergic and GABAergic neurons in the rat medial septum: effect of target removal in early postnatal development. Plaschke M, et al. **J Comp Neurol** 1997 Mar 24;379(4):467-81

Expression of m1-m4 muscarinic acetylcholine receptor immunoreactivity in septohippocampal neurons and other identified hippocampal afferents. Rouse ST, et al. **J Comp Neurol** 1996 Nov 18;375(3):406-16

Characterization and distribution of basic fibroblast growth factor-containing cells in the rat hippocampus. Williams TE, et al. **J Comp Neurol** 1996 Jun 24;370(2):147-58

Learning navigational maps through potentiation and modulation of hippocampal place cells. Gerstner W, et al. **J Comput Neurosci** 1997 Jan;4(1):79-94

Age-related changes in phospholipid fatty acid composition and monoaminergic neurotransmission in the hippocampus of rats fed a balanced or an n-3 polyunsaturated fatty acid-deficient diet. Delion S, et al. **J Lipid Res** 1997 Apr; 38(4):680-9

NMDA receptor-mediated regulation of AMPA receptor properties in organotypic hippocampal slice cultures. Gellerman DM, et al. **J Neurochem** 1997 Jul;69(1):131-6

Co-localization of alpha1D adrenergic receptor mRNA with mineralocorticoid and glucocorticoid receptor mRNA in rat hippocampus. Williams AM, et al. **J Neuroendocrinol** 1997 Feb;9(2):113-9

Alteration of muscarinic acetylcholine receptors in rabies viral-infected dog brains. Dumrongphol H, et al. **J Neurol Sci** 1996 Apr;137(1):1-6

Hippocampal pathology in diffuse Lewy body disease using ubiquitin immunohistochemistry. Iseki E, et al. **J Neurol Sci** 1997 Aug;149(2):165-9

2.1 kb 5'-flanking region of the brain type dystrophin gene directs the expression of lacZ in the cerebral cortex, but not in the hippocampus. Kimura S, et al. **J Neurol Sci** 1997 Mar 20;147(1):13-20

Dysregulation of diurnal rhythms of serotonin 5-HT2C and corticosteroid receptor gene expression in the hippocampus with food restriction and glucocorticoids. Holmes MC, et al. **J Neurosci** 1997 Jun 1;17(11):4056-65

Silent GABAA synapses during flurazepam withdrawal are region-specific in the hippocampal formation. Poisbeau P, et al. **J Neurosci** 1997 May 15;17(10):3467-75

Distinct differences in partial oxygen pressure at micrometer ranges in the rat hippocampal region. Andreasen A, et al. **J Neurosci Methods** 1997 Mar;72(1):15-21

Disappearance of actin-binding protein, drebrin, from hippocampal synapses in Alzheimer's disease. Harigaya Y, et al. **J Neurosci Res** 1996 Jan 1;43(1):87-92

Effects of sodium chloride, Triton X-100, and alkaline pH on the measurable contents and sedimentability of the nerve growth factor (NGF) antigen in adult rat hippocampal tissue extracts. Hoener MC, et al. **J Neurosci Res** 1997 Aug 15;49(4):508-14

Regulation of muscarinic acetylcholine receptor-mediated synaptic responses by adenosine receptors in the rat hippocampus. Morton RA, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):75-90

Nicotinic acetylcholine receptors on hippocampal neurons: distribution on the neuronal surface and modulation of receptor activity. Albuquerque EX, et al. **J Recept Signal Transduct Res** 1997 Jan-May; 17(1-3):243-66 (50 ref.)

Steroid receptors in the rat hippocampus: a note to the methodology of their binding assay. Szuran TF, et al. **J Recept Signal Transduct Res** 1997 Jan-May; 17(1-3):337-54

Differential regulation of hippocampal AMPA and kainate receptor subunit expression by haloperidol and clozapine [see comments] Meador-Woodruff JH, et al. **Mol Psychiatry** 1996 Mar;1(1):41-53. Comment in: Mol Psychiatry 1996 Mar;1(1):16-7.

Developmental alterations in 5-hydroxytryptamine concentration and turnover after treatment of neonatal rats with 5,7-dihydroxytryptamine. Mercugliano M, et al. **Neurobiol Learn Mem** 1996 Mar;65(2):163-76

Age-dependent organotypic expression of microtubule-associated proteins (MAP1, MAP2, and MAP5) in rat brain. Chauhan N, et al. **Neurochem Res** 1997 Jun;22(6):713-9

Widespread ectopic neuropeptide-Y immunoreactivity in contralateral mossy fibres after a unilateral intrahippocampal kainic acid injection in the rat. Lurton D, et al. **Neurosci Lett** 1996 Aug 9;213(3):181-4

Expression of 9-O-acetylated gangliosides in the rat hippocampus. Mello LE, et al. **Neurosci Lett** 1996 Jul 26; 213(1):17-20

Morphological studies on Mn-SOD, NOS and calcium binding proteins in the rat hippocampus. Matsui T, et al. **Osaka City Med J** 1996 Jul;42(1):1-13

Angiotensinogen and natriuretic peptide mRNAs in rat brain: localization and differential regulation by adrenal steroids in hypothalamus. Ryan MC, et al. **Peptides** 1997; 18(4):495-504

GIRK1 immunoreactivity is present predominantly in dendrites, dendritic spines, and somata in the CA1 region of the hippocampus. Drake CT, et al. **Proc Natl Acad Sci U S A** 1997 Feb 4;94(3):1007-12

Immunohistochemical examination of phosphorylated tau in granulovacuolar degeneration granules. Ikegami K, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):137-40

Transient elevation of nerve growth factor content in the rat hippocampus and frontal cortex by chronic ethanol treatment. Nakano T, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):157-60

CYTOLOGY

The role of microenvironment in axonal regeneration. Influences of lesion-induced changes and glial implants on the regeneration of the postcommissural fornix. Stichel-Gunkel CC. **Adv Anat Embryol Cell Biol** 1997; 137:I-VII, 1-81 (355 ref.)

Neurogenetic approaches to axon sprouting in the hippocampus. Noebels JL, et al. **Adv Neurol** 1997;72:35-44 (42 ref.)

Ethanol affects hypothalamic neurons projecting to the hippocampus and inhibits dentate granule cell LTP. Wayner MJ, et al. **Alcohol** 1997 Jan-Feb;14(1):1-7

Size, shape, and orientation of neurons in the left and right hippocampus: investigation of normal asymmetries and alterations in schizophrenia. Zaidel DW, et al. **Am J Psychiatry** 1997 Jun;154(6):812-8

Rhythmogenesis in single cells and population models: olfactory bulb and hippocampus. Erdi P, et al. **Biosystems** 1997;40(1-2):45-53

Dendritic shrinkage and dye-coupling between rat hippocampal CA1 pyramidal cells in the tetanus toxin model of epilepsy. Colling SB, et al. **Brain Res** 1996 Nov 25;741(1-2):38-43

Heterogeneous current responses to GABA and glycine are present in post-natally cultured hippocampal neurons. Fatima-Shad K, et al. **Brain Res** 1995 Dec 18;704(2):246-55

Characterization of nicotinic receptors in immortalized hippocampal neurons. Komourian J, et al. **Brain Res** 1996 Apr 29;718(1-2):37-45

Neuronal cytotoxicity of inositol hexakisphosphate (phytate) in the rat hippocampus. Lees GJ, et al. **Brain Res** 1996 Nov 25;741(1-2):134-41

Neurogranin is locally concentrated in rat cortical and hippocampal neurons. Neuner-Jehle M, et al. **Brain Res** 1996 Sep 9;733(1):149-54

Laminar distribution of non-principal neurons in the rat hippocampus, with special reference to their compositional difference among layers. Nomura T, et al. **Brain Res** 1997 Aug 1;764(1-2):197-204

Distribution of nonprincipal neurons in the rat hippocampus, with special reference to their dorsoventral difference. Nomura T, et al. **Brain Res** 1997 Mar 14;751(1):64-80

Effects of metabotropic glutamate receptor agonists on excitatory and inhibitory transmissions in cultured rat hippocampal neurons. Ohno-Shosaku T, et al. **Brain Res** 1995 Dec 24;705(1-2):337-40

Transforming growth factors-beta protect primary rat hippocampal neuronal cultures from degeneration induced by beta-amyloid peptide. Ren RF, et al. **Brain Res** 1996 Sep 2;732(1-2):16-24

Clenbuterol protects mouse cerebral cortex and rat hippocampus from ischemic damage and attenuates glutamate neurotoxicity in cultured hippocampal neurons by induction of NGF. Semkova I, et al. **Brain Res** 1996 Apr 22;717(1-2):44-54

Oxidized low density lipoprotein caused CNS neuron cell death. Sugawa M, et al. **Brain Res** 1997 Jun 27; 761(1):165-72

Lowering extracellular Na+ concentration causes NMDA receptor-mediated neuronal death in cultured rat hippocampal slices. Takahashi M, et al. **Brain Res** 1996 Sep 30;735(1):1-8

Non-invasive detection of ongoing neuronal population

activity in normal human hippocampus. Tesche CD. **Brain Res** 1997 Feb 21;749(1):53–60

Partial protection of hippocampal neurons by MK–801 during perforant path stimulation in the immature brain. Thompson K, et al. **Brain Res** 1997 Mar 14;751(1):96–101

NADPH–diaphorase reactive pyramidal neurons in Ammon's horn and the subiculum of the rat hippocampal formation. Vaid RR, et al. **Brain Res** 1996 Sep 9;733(1):31–40

Vasoactive intestinal polypeptide enhances the GABAergic synaptic transmission in cultured hippocampal neurons. Wang HL, et al. **Brain Res** 1997 Jan 23;746(1–2):294–300

Search for a gene that may result in fewer neurons in the adult mouse hippocampus. Wimer RE, et al. **Brain Res** 1995 Dec 1;701(1–2):293–6

Thrombin receptor on rat primary hippocampal neurons: coupled calcium and cAMP responses. Yang Y, et al. **Brain Res** 1997 Jun 27;761(1):11–8

Cholinergic neurons from different subdivisions of the basal forebrain lack connectional specificity for cerebral cortical target sites in vitro. Baratta J, et al. **Brain Res Dev Brain Res** 1996 Nov 22;97(1):143–7

Development of HVA and LVA calcium currents in pyramidal CA1 neurons in the hippocampus of the rat. Kortekaas P, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1–2):139–47

Selective death of hippocampal CA3 pyramidal cells with mossy fiber afferents after CRH–induced status epilepticus in infant rats. Ribak CE, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):245–51

The effects of lactate and beta–hydroxybutyrate on the energy metabolism and neural activity of hippocampal slices from adult and immature rat. Wada H, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):1–7

Entorhinal axons perforate hippocampal field CA3 in organotypic slice culture. Woodhams PL, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):144–7

Inhibitory control of GABAergic interneurons in the hippocampus. Freund TF, et al. **Can J Physiol Pharmacol** 1997 May;75(5):479–87 (69 ref.)

Real–time imaging of intrinsic optical signals during early excitotoxicity evoked by domoic acid in the rat hippocampal slice. Polischuk TM, et al. **Can J Physiol Pharmacol** 1996 Jun;74(6):712–22

Nitric oxide acts directly in the presynaptic neuron to produce long–term potentiation in cultured hippocampal neurons. Arancio O, et al. **Cell** 1996 Dec 13;87(6):1025–35

Transplantation of polymer–encapsulated fetal hippocampal cells into ischemic lesions of adult rat hippocampus. Takahata T, et al. **Cell Transplant** 1996 Sep–Oct;5(5 Suppl 1):S13–5

Ibudilast protects against neuronal damage induced by glutamate in cultured hippocampal neurons. Tominaga Y, et al. **Clin Exp Pharmacol Physiol** 1996 Jun–Jul; 23(6–7):519–23

Spatial view cells in the primate hippocampus. Rolls ET, et al. **Eur J Neurosci** 1997 Aug;9(8):1789–94

Neuronal differentiation in the rat hippocampus involves a stage–specific reorganization of subnuclear structure both in vivo and in vitro. Santama N, et al. **Eur J Neurosci** 1996 May;8(5):892–905

Connectional specification of regenerating entorhinal projection neuron classes cannot be overridden by altered target availability in postnatal organotypic slice co–culture. Li D, et al. **Exp Neurol** 1996 Nov;142(1):151–60

Morphometrical study of rat hippocampus. Light–microscopic features. Kraszpulski M, et al. **Folia Neuropathol** 1996;34(3):137–41

Physiological properties of anatomically identified basket and bistratified cells in the CA1 area of the rat hippocampus in vitro. Buhl EH, et al. **Hippocampus** 1996;6(3):294–305

Neuronal computations underlying the firing of place cells and their role in navigation. Burgess N, et al. **Hippocampus** 1996;6(6):749–62

Limbic system–associated membrane protein (LAMP) in primate amygdala and hippocampus. Côté PY, et al. **Hippocampus** 1996;6(5):483–94

Origin of the lateral perforant path [letter; comment] Ferbinteanu J, et al. **Hippocampus** 1997;7(3):350–1. Comment on: Hippocampus 1996;6(2):125–35.

Pyramidal cell dendrites are the primary targets of calbindin D28k–immunoreactive interneurons in the hippocampus. Gulyás AI, et al. **Hippocampus** 1996;6(5):525–34

Synaptic target selectivity and input of GABAergic basket and bistratified interneurons in the CA1 area of the rat hippocampus. Halasy K, et al. **Hippocampus** 1996; 6(3):306–29

Hippocampal place fields: relationship between degree of field overlap and cross–correlations within ensembles of hippocampal neurons. Hampson RE, et al. **Hippocampus** 1996;6(3):281–93

Genetic variation in the morphology of the septo–hippocampal cholinergic and GABAergic system in mice. I. Cholinergic and GABAergic markers. Schwegler H, et al. **Hippocampus** 1996;6(2):136–48

Collateral projections from the rat hippocampal formation to the lateral and medial prefrontal cortex. Verwer RW, et al. **Hippocampus** 1997;7(4):397–402

Micrometer resolution silane–based patterning of hippocampal neurons: critical variables in photoresist and laser ablation processes for substrate fabrication. Corey JM, et al. **IEEE Trans Biomed Eng** 1996 Sep;43(9):944–55

Role of vimentin in early stages of neuritogenesis in cultured hippocampal neurons. Boyne LJ, et al. **Int J Dev Neurosci** 1996 Oct;14(6):739–48

Reduced expression of voltage–gated sodium channels in neurons cultured from trisomy 16 mouse hippocampus. Stoll J, et al. **Int J Dev Neurosci** 1996 Oct;14(6):749–60

Regulation of nerve growth factor mRNA by interleukin–1 in rat hippocampal astrocytes is mediated by NFkappaB. Friedman WJ, et al. **J Biol Chem** 1996 Dec 6; 271(49):31115–20

Partial colocalization of glucocorticoid and mineralocorticoid receptors in discrete compartments in nuclei of rat hippocampus neurons. van Steensel B, et al. **J Cell Sci** 1996 Apr;109 (Pt 4):787–92

Septal complex of the telencephalon of the lizard Podarcis hispanica. II. Afferent connections. Font C, et al. **J Comp Neurol** 1997 Jul 14;383(4):489–511

Axonal remodeling during postnatal maturation of CA3 hippocampal pyramidal neurons. Gomez–Di Cesare CM, et al. **J Comp Neurol** 1997 Jul 28;384(2):165–80

Dendritic morphology and its effects on the amplitude and rise–time of synaptic signals in hippocampal CA3 pyramidal cells. Henze DA, et al. **J Comp Neurol** 1996 Jun 3; 369(3):331–44

Neuron numbers in the presubiculum, parasubiculum, and entorhinal area of the rat. Mulders WH, et al. **J Comp Neurol** 1997 Aug 18;385(1):83–94

Apoptosis and necrosis induced in different hippocampal neuron populations by repetitive perforant path stimulation in the rat. Sloviter RS, et al. **J Comp Neurol** 1996 Mar 11;366(3):516–33

Regulation of voltage– and ligand–gated currents in rat hippocampal progenitor cells in vitro. Sah DW, et al. **J Neurobiol** 1997 Jan;32(1):95–110

Histaminergic H2 action protects hippocampal CA1 neurons by prolonging the onset of the anoxic depolarization in gerbils. Fujitani T, et al. **J Neurochem** 1996 Dec; 67(6):2613–5

The low–density lipoprotein receptor–related protein, a multifunctional apolipoprotein E receptor, modulates hippocampal neurite development. Narita M, et al. **J Neurochem** 1997 Feb;68(2):587–95

Comparative evaluation of synaptophysin–based methods for quantification of synapses. Calhoun ME, et al. **J Neurocytol** 1996 Dec;25(12):821–8

Transient increase of tenascin–C in immature hippocampus: astroglial and neuronal expression. Ferhat L, et al. **J Neurocytol** 1996 Jan;25(1):53–66

Comparative electrotonic analysis of three classes of rat hippocampal neurons. Carnevale NT, et al. **J Neurophysiol** 1997 Aug;78(2):703–20

Mechanisms and effects of intracellular calcium buffering on neuronal survival in organotypic hippocampal cultures exposed to anoxia/aglycemia or to excitotoxins. Abdel–Hamid KM, et al. **J Neurosci** 1997 May 15; 17(10):3538–53

TrkB signaling is required for postnatal survival of CNS neurons and protects hippocampal and motor neurons from axotomy–induced cell death. Alcántara S, et al. **J Neurosci** 1997 May 15;17(10):3623–33

Secondary activation of a cation conductance is responsible for NMDA toxicity in acutely isolated hippocampal neurons. Chen QX, et al. **J Neurosci** 1997 Jun 1; 17(11):4032–6

Differential survival of Cajal–Retzius cells in organotypic cultures of hippocampus and neocortex. Del Río JA, et al. **J Neurosci** 1996 Nov 1;16(21):6896–907

Prominent expression of two forms of glutamate decarboxylase in the embryonic and early postnatal rat hippocampal formation. Dupuy ST, et al. **J Neurosci** 1996 Nov 1;16(21):6919–32

Differential regulation of NMDAR1 mRNA and protein by estradiol in the rat hippocampus. Gazzaley AH, et al. **J Neurosci** 1996 Nov 1;16(21):6830–8

Hippocampal cell responses in mice with a targeted glucocorticoid receptor gene disruption. Hesen W, et al. **J Neurosci** 1996 Nov 1;16(21):6766–74

Control of action potential–induced Ca2+ signaling in the soma of hippocampal neurons by Ca2+ release from intracellular stores. Jacobs JM, et al. **J Neurosci** 1997 Jun 1;17(11):4129–35

GABAB receptor–mediated inhibition of tetrodotoxin–resistant GABA release in rodent hippocampal CA1 pyramidal cells. Jarolimek W, et al. **J Neurosci** 1997 Feb 1;17(3):1025–32

Heterogeneity of astrocyte resting membrane potentials and intercellular coupling revealed by whole–cell and gramicidin–perforated patch recordings from cultured neocortical and hippocampal slice astrocytes. McKhann GM 2nd, et al. **J Neurosci** 1997 Sep 15;17(18):6850–63

Amyloid beta–peptide impairs glucose transport in hippocampal and cortical neurons: involvement of membrane lipid peroxidation. Mark RJ, et al. **J Neurosci** 1997 Feb 1;17(3):1046–54

Regulation of dendritic spine density in cultured rat hippocampal neurons by steroid hormones. Murphy DD, et al. **J Neurosci** 1996 Jul 1;16(13):4059–68

Translational machinery in dendrites of hippocampal neurons in culture. Tiedge H, et al. **J Neurosci** 1996 Nov 15; 16(22):7171–81

Neonatal nonhandling and in utero prenatal stress reduce the density of NADPH–diaphorase–reactive neurons in the fascia dentata and Ammon's horn of rats. Vaid RR, et al. **J Neurosci** 1997 Jul 15;17(14):5599–609

Isolation and culture of adult rat hippocampal neurons. Brewer GJ. **J Neurosci Methods** 1997 Feb;71(2):143–55

Using digital video techniques to identify correlations between behavior and the activity of single neurons. Fenton AA, et al. **J Neurosci Methods** 1996 Dec 28;70(2):211–27

Protein phosphatase inhibitors induce modification of synapse structure and tau hyperphosphorylation in cultured rat hippocampal neurons. Malchiodi–Albedi F, et al. **J Neurosci Res** 1997 Jun 1;48(5):425–38

Modulation of endogenous firing patterns by osmolarity in rat hippocampal neurones. Azouz R, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):175–87

Presubicular and parasubicular cortical neurons of the rat: functional separation of deep and superficial neurons in vitro. Funahashi M, et al. **J Physiol (Lond)** 1997 Jun 1;501 (Pt 2):387–403

Release and sequestration of calcium by ryanodine–sensitive stores in rat hippocampal neurones. Garaschuk O, et al. **J Physiol (Lond)** 1997 Jul 1;502 (Pt 1):13–30

Disinhibition of rat hippocampal pyramidal cells by GABAergic afferents from the septum. Tóth K, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):463–74

Effects of basic fibroblast growth factor on hippocampal neurons after axonal injury. Himmelseher S, et al. **J Trauma** 1997 Apr;42(4):659–64

Preparation of organotypic hippocampal slice cultures using the membrane filter method. Bergold PJ, et al. **Methods Mol Biol** 1997;72:15–22

Localization of cellular storage compartments and sites of constitutive and activity–dependent release of nerve growth factor (NGF) in primary cultures of hippocampal neurons. Blöchl A, et al. **Mol Cell Neurosci** 1996 Mar; 7(3):173–90

Regulated release and polarized localization of brain–derived neurotrophic factor in hippocampal neurons. Goodman LJ, et al. **Mol Cell Neurosci** 1996 Mar;7(3):222–38

The adult rat hippocampus contains primordial neural stem cells. Palmer TD, et al. **Mol Cell Neurosci** 1997; 8(6):389–404

Apoptosis–mediated neurotoxicity induced by beta–amyloid and PrP fragments. Forloni G, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):163–71

A role for Cajal–Retzius cells and reelin in the development of hippocampal connections [see comments] Del Río JA, et al. **Nature** 1997 Jan 2;385(6611):70–4. Comment in: Nature 1997 Jan 2;385(6611):23–4.

Axons follow Reelin routes [news; comment] Ghosh A. **Nature** 1997 Jan 2;385(6611):23–4. Comment on: Nature 1997 Jan 2;385(6611):70–4.

Differentiation of adult hippocampus–derived progenitors into olfactory neurons in vivo. Suhonen JO, et al. **Nature** 1996 Oct 17;383(6601):624–7

Maltol (3–hydroxy–2–methyl–4–pyrone) toxicity in neuroblastoma cell lines and primary murine fetal hippocampal neuronal cultures. Hironishi M, et al. **Neurodegeneration** 1996 Dec;5(4):325–9

A role of intracellular Na+ in the regulation of synaptic transmission and turnover of the vesicular pool in cultured hippocampal cells. Bouron A, et al. **Neuron** 1996 Nov; 17(5):969–78

Endogenous adenosine on membrane properties of CA1 neurons in rat hippocampal slices during normoxia and hypoxia. Zhu PJ, et al. **Neuropharmacology** 1997 Feb; 36(2):169–76

The HIV–1 envelope protein gp120 induces neuronal apoptosis in hippocampal slices. Aggoun–Zouaoui D, et al. **Neuroreport** 1996 Jan 31;7(2):433–6

Ageing potentiates anaesthetic–induced synaptic depression in hippocampal slices. el–Beheiry H, et al. **Neuroreport** 1996 Jan 31;7(2):502–4

Melatonin prevents oxidative stress–induced cell death in hippocampal cells. Lezoualc'h F, et al. **Neuroreport** 1996 Sep 2;7(13):2071–7

NT–4/5 protects against adrenalectomy–induced apoptosis of rat hippocampal granule cells. Qiao X, et al. **Neuroreport** 1996 Jan 31;7(2):682–6

1–Aminocyclopropane–carboxylic acid reduces NMDA–induced hippocampal neurodegeneration in vivo. Zapata A, et al. **Neuroreport** 1996 Jan 31;7(2):397–400

Modulation of the reaction of hippocampal neurons to sensory stimuli by cholinergic substances. Vinogradova OS, et al. **Neurosci Behav Physiol** 1996 Mar–Apr;26(2):113–24

Changes in intracellular calcium induced by NMDA in cultured rat hippocampal neurons require exogenous glycine. Andjus PR, et al. **Neurosci Lett** 1996 May 24; 210(1):25–8

Bilateral kainic acid lesions in the rat hilus induce non–linear additive mossy fiber neoinnervation. Chakravarty DN, et al. **Neurosci Lett** 1997 Jul 25;230(3):175–8

Synaptic release rather than failure in the conditioning pulse results in paired–pulse facilitation during minimal synaptic stimulation in the rat hippocampal CA1 neurones. Chen Y, et al. **Neurosci Lett** 1996 Nov 8;218(3):204–8

Three distinct neuronal phenotypes exist in embryonic rat hippocampal neurons cultured in basic fibroblast growth factor. Eubanks JH, et al. **Neurosci Lett** 1996 Feb 2; 204(1–2):5–8

Glutamate–mediated activation of protein kinase C in hippocampal neurons. Hasham MI, et al. **Neurosci Lett** 1997 Jun 6;228(2):115–8

An immunosuppressant, FK506, protects hippocampal

neurons from forebrain ischemia in the mongolian gerbil. Ide T, et al. **Neurosci Lett** 1996 Feb 9;204(3):157–60

Repetitive applications of ATP potentiate potassium current by Ca2+/calmodulin kinase in cultured rat hippocampal neurons. Ikeuchi Y, et al. **Neurosci Lett** 1996 Jan 19; 203(2):115–8

The protective effect of hypothermia on the recovery of neural activity after deprivation of oxygen and glucose: study of slices from the hippocampus and superior colliculus. Kurihara E, et al. **Neurosci Lett** 1996 Feb 9; 204(3):197–200

Optical recording of rat entorhino–hippocampal system in organotypic culture. Nakagami Y, et al. **Neurosci Lett** 1996 Oct 4;216(3):211–3

Replication of centrioles and differentiation of neurons in hippocampal slice cultures and olfactory neuroepithelium in the rat. Popov VI, et al. **Neurosci Lett** 1996 Jan 19; 203(2):135–8

Morphological heterogeneity of non–pyramidal neurons in the CA1 region of the rat hippocampus. Han ZS. **Neurosci Res** 1996 May;25(1):51–65

Involvement of M2 receptor in an enhancement of long–term potentiation by carbachol in Schaffer collateral–CA1 synapses of hippocampal slices. Shimoshige Y, et al. **Neurosci Res** 1997 Feb;27(2):175–80

Correlated morphological and neurochemical features identify different subsets of vasoactive intestinal polypeptide–immunoreactive interneurons in rat hippocampus. Acsády L, et al. **Neuroscience** 1996 Jul; 73(2):299–315

Different populations of vasoactive intestinal polypeptide–immunoreactive interneurons are specialized to control pyramidal cells or interneurons in the hippocampus. Acsády L, et al. **Neuroscience** 1996 Jul; 73(2):317–34

Anatomical properties of fast spiking cells that initiate synchronized population discharges in immature hippocampus. Cesare CM, et al. **Neuroscience** 1996 Nov; 75(1):83–97

Maintenance of sympathetic innervation into the hippocampal formation requires a continuous local availability of nerve growth factor. Conner JM, et al. **Neuroscience** 1996 Jun;72(4):933–45

CA1 pyramid–pyramid connections in rat hippocampus in vitro: dual intracellular recordings with biocytin filling. Deuchars J, et al. **Neuroscience** 1996 Oct;74(4):1009–18

Similarities in the age–related hippocampal deposition of periodic acid–schiff–positive granules in the senescence–accelerated mouse P8 and C57BL/6 mouse strains. Kuo H, et al. **Neuroscience** 1996 Oct;74(3):733–40

Accumulation and extrusion of permeant Ca2+ chelators in attenuation of synaptic transmission at hippocampal CA1 neurons. Ouanounou A, et al. **Neuroscience** 1996 Nov; 75(1):99–109

Localization of the glutamate receptor subunit GluR1 on the surface of living and within cultured hippocampal neurons. Richmond SA, et al. **Neuroscience** 1996 Nov;75(1):69–82

Dual mode of N–methyl–D–aspartate–induced neuronal death in hippocampal slice cultures in relation to N–methyl–D–aspartate receptor properties. Sakaguchi T, et al. **Neuroscience** 1997 Jan;76(2):411–23

GABA(A) receptor subunits in the rat hippocampus I: immunocytochemical distribution of 13 subunits. Sperk G, et al. **Neuroscience** 1997 Oct;80(4):987–1000

Age–dependent changes in the immunoreactivity for neurofilaments in rabbit hippocampus. Van der Zee EA, et al. **Neuroscience** 1997 Jul;79(1):103–16

Place cells and place navigation. Bures J, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):343–50 (63 ref.)

Polyunsaturated fatty acids modulate sodium and calcium currents in CA1 neurons. Vreugdenhil M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12559–63

Hippocampal neurodegeneration in aging [letter; comment] Gallagher M, et al. **Science** 1996 Oct 25;274(5287):484–5. Comment on: Science 1996 Mar 1;271(5253):1229–30. Comment on: Science 1996 Jul 5;273(5271):48–50.

Microglia in the nerve fiber layer of the cat retina: detection of postnatal changes by a new monoclonal antibody. Tumosa N, et al. **Vis Neurosci** 1996 Jul–Aug;13(4):671–82

DRUG EFFECTS

The immunosuppressant FK506 ameliorates ischaemic damage in the rat brain. Drake M, et al. **Acta Physiol Scand** 1996 Oct;158(2):155–9

The kynurenines and the seizures. Guzeva VI, et al. **Adv Exp Med Biol** 1996;398:263–4

Effects of glutamate on calcium influx and sequestration/extrusion mechanisms in hippocampal neurons. DeLorenzo RJ, et al. **Adv Neurol** 1996;71:37–46 (35 ref.)

Glutamate, arachidonic acid, and calcium regulation in cultured hippocampal astrocytes: involvement in ischemia? Madden KS, et al. **Adv Neurol** 1996;71:53–9

Effects of prenatal ethanol exposure on hippocampal theta activity in the rat. Cortese BM, et al. **Alcohol** 1997 May–Jun;14(3):231–5

Ethanol withdrawal hyperexcitability in vivo and in isolated mouse hippocampal slices. Ripley TL, et al. **Alcohol Alcohol** 1996 Jul;31(4):347–57

Acamprosate (calcium acetylhomotaurinate) enhances the N–methyl–D–aspartate component of excitatory neurotransmission in rat hippocampal CA1 neurons in vitro. Madamba SG, et al. **Alcohol Clin Exp Res** 1996 Jun; 20(4):651–8

Ethanol's inhibition of LTP may not be mediated solely via direct effects on the NMDA receptor. Schummers J, et al. **Alcohol Clin Exp Res** 1997 May;21(3):404–8

Acetylcarnitine modulation of the morphology of rat hippocampal synapses. Bertoni–Freddari C, et al. **Anal Quant Cytol Histol** 1996 Aug;18(4):275–8

The effects of sevoflurane on population spikes in CA1 and dentate gyrus of the rat hippocampus in vitro. Hirota K, et al. **Anesth Analg** 1997 Aug;85(2):426–30

Nitrous oxide impairs electrophysiologic recovery after severe hypoxia in rat hippocampal slices. Amorim P, et al. **Anesthesiology** 1997 Sep;87(3):642–51

Effects of dexmedetomidine on hypoxia–evoked glutamate release and glutamate receptor activity in hippocampal slices. Talke P, et al. **Anesthesiology** 1996 Sep;85(3):551–7

Neurobiological actions of cocaine in the hippocampus. Onaivi ES, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:76–94 (28 ref.)

In vitro modulation of hippocampal pyramidal cell response by quinolones: effects of HA 966 and gamma–hydroxybutyric acid. Dimpfel W, et al. **Antimicrob Agents Chemother** 1996 Nov;40(11):2573–6

Z–321, a prolyl endopeptidase inhibitor, augments the potentiation of synaptic transmission in rat hippocampal slices. Miura N, et al. **Behav Brain Res** 1997 Feb; 83(1–2):213–6

Nefiracetam ameliorates learning deficits in older rabbits and may act via the hippocampus. Woodruff–Pak DS. **Behav Brain Res** 1997 Feb;83(1–2):179–84

Effects of ethanol on nonspatial working memory and attention in rats. Givens B, et al. **Behav Neurosci** 1997 Apr; 111(2):275–82

Early NMDA receptor blockade impairs defensive behavior and increases cell proliferation in the dentate gyrus of developing rats. Gould E, et al. **Behav Neurosci** 1997 Feb; 111(1):49–56

Double dissociation of hippocampal and dorsal–striatal memory systems by posttraining intracerebral injections of 2–amino–5–phosphonopentanoic acid. Packard MG, et al. **Behav Neurosci** 1997 Jun;111(3):543–51

Effects of nebracetam on synaptosomal monoamine uptake of striatal and hippocampal regions in rats. Takeo S, et al. **Biol Pharm Bull** 1997 Apr;20(4):360–3

Carbamazepine inhibits the potentiation by adenosine analogues of agonist induced inositolphosphate formation in hippocampal astrocyte cultures. Biber K, et al. **Biol Psychiatry** 1996 Oct 1;40(7):563–7

Hippocampal neurons are damaged by caffeine–augmented electroshock seizures [see comments] Enns M, et al. **Biol Psychiatry** 1996 Oct 1;40(7):642–7. Comment in: Biol Psychiatry 1997 May 1;41(9):991–2.

Antipsychotic regulation of hippocampal dopamine receptor messenger RNA expression. Ritter LM, et al. **Biol Psychiatry** 1997 Aug 1;42(3):155–64

Characterisation of the role of calcium in AlF4–induced long–term potentiation in area CA1 of rat hippocampus. Breakwell NA, et al. **Biosci Rep** 1997 Apr;17(2):209–18

Sevoflurane modulates both GABAA and GABAB receptors in area CA1 of rat hippocampus. Hirota K, et al. **Br J Anaesth** 1997 Jan;78(1):60–5

Frequency–dependent inhibition of neuronal activity by lappaconitine in normal and epileptic hippocampal slices. Ameri A, et al. **Br J Pharmacol** 1996 Jun;118(3):577–84

Effect of short–term and long–term treatments with sigma ligands on the N–methyl–D–aspartate response in the CA3 region of the rat dorsal hippocampus. Bergeron R, et al. **Br J Pharmacol** 1997 Apr;120(7):1351–9

Effect of 1–aminocyclopropanecarboxylic acid on N–methyl–D–aspartate–stimulated [3H]–noradrenaline release in rat hippocampal synaptosomes. Clos MV, et al. **Br J Pharmacol** 1996 Jun;118(4):901–4

Stimulation of 5–HT1A receptors in the dorsal hippocampus and inhibition of limbic seizures induced by kainic acid in rats. Gariboldi M, et al. **Br J Pharmacol** 1996 Nov; 119(5):813–8

Thromboxane A2 agonist modulation of excitatory synaptic transmission in the rat hippocampal slice. Hsu KS, et al. **Br J Pharmacol** 1996 Aug;118(8):2220–7

Inhibition by ATP of calcium oscillations in rat cultured hippocampal neurones. Koizumi S, et al. **Br J Pharmacol** 1997 Sep;122(1):51–8

Characterization of lamotrigine inhibition of Na+ channels in rat hippocampal neurones. Kuo CC, et al. **Br J Pharmacol** 1997 Jul;121(6):1231–8

Functional characterization of 5–HT1D autoreceptors on the modulation of 5–HT release in guinea–pig mesencephalic raphe, hippocampus and frontal cortex. el Mansari M, et al. **Br J Pharmacol** 1996 Jun;118(3):681–9

Effects of gamma–aminobutyric acid (GABA) agonists and GABA uptake inhibitors on pharmacosensitive and pharmacoresistant epileptiform activity in vitro. Pfeiffer M, et al. **Br J Pharmacol** 1996 Oct;119(3):569–77

Interactions of 2,3–benzodiazepines and cyclothiazide at AMPA receptors: patch clamp recordings in cultured neurones and area CA1 in hippocampal slices. Rammes G, et al. **Br J Pharmacol** 1996 Mar;117(6):1209–21

Differential modulation of AMPA receptor mediated currents by evans blue in postnatal rat hippocampal neurones. Schürmann B, et al. **Br J Pharmacol** 1997 May; 121(2):237–47

Evidence for direct and indirect mechanisms in the potent modulatory action of interleukin–2 on the release of acetylcholine in rat hippocampal slices. Seto D, et al. **Br J Pharmacol** 1997 Mar;120(6):1151–7

Inhibition of synaptic transmission and epileptiform activity in central neurones by fluspirilene. Wang SJ, et al. **Br J Pharmacol** 1997 Mar;120(6):1114–8

Effects of intravenous anaesthetic agents on fast inhibitory oscillations in the rat hippocampus in vitro [published erratum appears in Br J Pharmacol 1996 Nov;119(6):1291] Whittington MA, et al. **Br J Pharmacol** 1996 Aug; 118(8):1977–86

Potentiation by sevoflurane of the gamma–aminobutyric acid–induced chloride current in acutely dissociated CA1 pyramidal neurones from rat hippocampus. Wu J, et al. **Br J Pharmacol** 1996 Nov;119(5):1013–21

Transforming growth factor–beta 1 promotes re–elongation of injured axons of cultured rat hippocampal neurons. Abe K, et al. **Brain Res** 1996 Jun 3;723(1–2):206–9

Comparison of effects induced by toxic applications of kainate and glutamate by glucose deprivation on area CA1 of rat hippocampal slices. Alici K, et al. **Brain Res** 1996 Oct 28;738(1):109–20

Inhibition of neuronal activity in rat hippocampal slices by Aconitum alkaloids. Ameri A, et al. **Brain Res** 1996 Oct 28;738(1):154–7

Memory disturbance and hippocampal degeneration induced by continuous intraventricular infusion of a protease inhibitor, leupeptin. Arai T, et al. **Brain Res** 1997 Apr 18; 754(1–2):157–62

Effects of serotonin on different patterns of low Mg(2+)–induced epileptiform activity in the subiculum of rats studied in vitro. Behr J, et al. **Brain Res** 1996 Oct 21;737(1–2):331–4

Melatonin administration protects CA1 hippocampal neurons after transient forebrain ischemia in rats. Cho S, et al. **Brain Res** 1997 May 2;755(2):335–8

Nimodipine's protection against corticosterone–induced morphological changes in the hippocampus of young rats. Dachir S, et al. **Brain Res** 1997 Feb 14;748(1–2):175–83

Is activation of metabotropic glutamate receptors responsible for acute hyposic changes in hippocampal neurons? Erdemli G, et al. **Brain Res** 1996 Jun 3;723(1–2):1–7

Examination of persistent effects of repeated administration of pentylenetetrazol on rat hippocampal CA1: evidence from in vitro study on hippocampal slices. Fathollahi Y, et al. **Brain Res** 1997 May 30;758(1–2):92–8

Repeated administration of pentylenetetrazol alters susceptibility of rat hippocampus to primed–burst stimulation: evidence from in vitro study on CA1 of hippocampal slices. Fathollahi Y, et al. **Brain Res** 1996 Oct 28;738(1):138–41

K+ channel openers protect hippocampal neurons against oxidative injury and amyloid beta–peptide toxicity. Goodman Y, et al. **Brain Res** 1996 Jan 15;706(2):328–32

Ethanol effects on synaptic neurotransmission and tetanus–induced synaptic plasticity in hippocampal slices of chronic in vivo lead–exposed adult rats. Grover CA, et al. **Brain Res** 1996 Sep 23;734(1–2):61–71

Effect of dibutyryl cyclic AMP on axoplasmic transport in the hippocampus. Hashimoto Y, et al. **Brain Res** 1997 May 2;755(2):343–6

The effect of basic fibroblast growth factor on glutamate–injured neuroarchitecture and arachidonic acid release in adult hippocampal neurons. Himmelseher S, et al. **Brain Res** 1996 Jan 22;707(1):54–63

Effects of hypertonia on voltage–gated ion currents in freshly isolated hippocampal neurons, and on synaptic currents in neurons in hippocampal slices. Huang R, et al. **Brain Res** 1997 Feb 14;748(1–2):157–67

The effect of long–term post–ischemic bifemelane hydrochloride treatment on cholinergic systems in the gerbil hippocampus. Huang YL, et al. **Brain Res** 1996 May 25;722(1–2):195–9

Persistent reduction of GABA(A) receptor–mediated inhibition in rat hippocampus after chronic intermittent ethanol treatment. Kang M, et al. **Brain Res** 1996 Feb 19; 709(2):221–8

The effect of MK–801 on extracellular neuroactive amino acids in hippocampus after closed head injury followed by hypoxia in rats. Katoh H, et al. **Brain Res** 1997 May 30;758(1–2):153–62

Non–NMDA but not NMDA blockade at deep prepiriform cortex protects against hippocampal cell death in status epilepticus. Kawaguchi K, et al. **Brain Res** 1997 Apr 4; 753(1):152–6

Phospholipid breakdown and choline release under hypoxic conditions: inhibition by bilobalide, a constituent of Ginkgo biloba. Klein J, et al. **Brain Res** 1997 May 2;755(2):347–50

Nitric oxide synthase inhibitor reduces delayed neuronal death in gerbil hippocampal CA1 neurons after transient global ischemia without reduction of brain temperature or extracellular glutamate concentration. Kohno K, et al. **Brain Res** 1996 Nov 4;738(2):275–80

Selegiline treatment after transient global ischemia in gerbils enhances the survival of CA1 pyramidal cells in the hippocampus. Lahtinen H, et al. **Brain Res** 1997 May 23; 757(2):260–7

Effects of an AMPA receptor modulator on methamphetamine–induced hyperactivity in rats. Larson J, et al. **Brain Res** 1996 Nov 4;738(2):353–6

Acute and chronic actions of ethanol on CA1 hippocampal responses to serotonin. Lau AH, et al. **Brain Res** 1996 Aug 26;731(1–2):12–20

Effects of CO2 on excitatory transmission apparently caused by changes in intracellular pH in the rat hippocampal slice. Lee J, et al. **Brain Res** 1996 Jan 15;706(2):210–6

Interactions between excitotoxins and the Na+/K+-ATPase inhibitor ouabain in causing neuronal lesions in the rat hippocampus. Lees GJ, et al. **Brain Res** 1996 Apr 1;714(1–2):145–55

Cyclic AMP endogenously enhances synaptic strength of developing glutamatergic synapses in serum-free microcultures of rat hippocampal neurons. Lessmann V, et al. **Brain Res** 1997 Jul 18;763(1):111–22

Bcl-2 prevents hippocampal cell death induced by the neuroleptic drug haloperidol. Lezoualc'h F, et al. **Brain Res** 1996 Oct 28;738(1):176–9

Interleukin-6 inhibits long-term potentiation in rat hippocampal slices. Li AJ, et al. **Brain Res** 1997 Feb 14; 748(1–2):30–8

Calcineurin inhibitors, FK506 and cyclosporin A, suppress the NMDA receptor-mediated potentials and LTP, but not depotentiation in the rat hippocampus. Lu YF, et al. **Brain Res** 1996 Aug 5;729(1):142–6

Effects of muscarinic receptor antagonism on the phosphatidylinositol bisphosphate signal transduction pathway after experimental brain injury. Lyeth BG, et al. **Brain Res** 1996 Dec 2;742(1–2):63–70

Glutamate and potassium stimulation of hippocampal slices metabolizing glucose or glucose and pyruvate. McDougal DB Jr, et al. **Brain Res** 1997 May 2;755(2):304–12

Ascorbate attenuates the systemic kainate-induced neurotoxicity in the rat hippocampus. MacGregor DG, et al. **Brain Res** 1996 Jul 15;727(1–2):133–44

Prevention by a purine analogue of kainate-induced neuropathology in rat hippocampus. MacGregor DG, et al. **Brain Res** 1996 Jun 24;725(1):115–20

5-HT1A agonists induce hippocampal theta activity in freely moving cats: role of presynaptic 5-HT1A receptors. Marrosu F, et al. **Brain Res** 1996 Nov 11;739(1–2):192–200

Effect of systemic zinc administration on delayed neuronal death in the gerbil hippocampus. Matsushita K, et al. **Brain Res** 1996 Dec 16;743(1–2):362–5

Fucose and fucosyllactose enhance in-vitro hippocampal long-term potentiation. Matthies H, et al. **Brain Res** 1996 Jul 1;725(2):276–80

Effects of tryptophan and/or acute running on extracellular 5-HT and 5-HIAA levels in the hippocampus of food-deprived rats. Meeusen R, et al. **Brain Res** 1996 Nov 18;740(1–2):245–52

Ethanol actions on the mechanisms of Ca2+ mobilization in rat hippocampal cells are mediated by protein kinase C. Mironov SL, et al. **Brain Res** 1996 Apr 1;714(1–2):27–37

Medial septal injection of naloxone elevates acetylcholine release in the hippocampus and induces behavioral seizures in rats. Mizuno T, et al. **Brain Res** 1996 Mar 25;713(1–2):1–7

Alterations in opiate receptor binding in the hippocampus of aged Long-Evans rats. Nagahara AH, et al. **Brain Res** 1996 Jan 22;707(1):22–30

In vitro hypoxia of cortical and hippocampal CA1 neurons: glutamate, nitric oxide, and platelet activating factor participate in the mechanism of selective neural death in CA1 neurons. Ohmori T, et al. **Brain Res** 1996 Dec 16; 743(1–2):109–15

Neuroprotection by both NMDA and non-NMDA receptor antagonists in in vitro ischemia. Pringle AK, et al. **Brain Res** 1997 Apr 25;755(1):36–46

Effects of volatile anesthetics on hippocampal slice metabolism, response to anoxia with and without glucose. Raley-Susman KM, et al. **Brain Res** 1997 Apr 25;755(1):1–8

Implication of protein kinase C in mechanisms of potassium-induced long-term potentiation in rat hippocampal slices. Roisin MP, et al. **Brain Res** 1997 Jan 16;745(1–2):222–30

Persistent depression of synaptic responses occurs in quisqualate sensitized hippocampal slices after exposure to L-aspartate-beta-hydroxamate. Roon RJ, et al. **Brain Res** 1996 Sep 23;734(1–2):223–8

Effects of pilocarpine on paired pulse inhibition in the CA3 region of the rat hippocampus. Sayin U, et al. **Brain Res** 1997 May 30;758(1–2):136–42

Methamphetamine exposure can produce neuronal degeneration in mouse hippocampal remnants. Schmued LC, et al. **Brain Res** 1997 Jun 6;759(1):135–40

Nicotine protects against the dexamethasone potentiation of kainic acid-induced neurotoxicity in cultured hippocampal neurons. Semba J, et al. **Brain Res** 1996 Oct 7;735(2):335–8

PCP and ketamine inhibit non-NMDA glutamate receptor mediated hsp70 induction. Sharp JW. **Brain Res** 1996 Jul 29;728(2):215–24

Basic fibroblast growth factor modulates synaptic transmission in cultured rat hippocampal neurons. Tanaka T, et al. **Brain Res** 1996 Jun 3;723(1–2):190–5

The role of limbic vasopressin and oxytocin in social recognition. van Wimersma Greidanus TB, et al. **Brain Res** 1996 Mar 25;713(1–2):153–9

Repeated hyperbaric oxygen induces ischemic tolerance in gerbil hippocampus. Wada K, et al. **Brain Res** 1996 Nov 18;740(1–2):15–20

Variability of brain lesions in rats administered methylmercury at various postnatal development phases. Wakabayashi K, et al. **Brain Res** 1995 Dec 24; 705(1–2):267–72

Injection of IgG 192-saporin into the medial septum produces cholinergic hypofunction and dose-dependent working memory deficits. Walsh TJ, et al. **Brain Res** 1996 Jul 8; 726(1–2):69–79

17alpha-Dihydroequilenin increases hippocampal dendritic spine density of ovariectomized rats. Washburn SA, et al. **Brain Res** 1997 May 30;758(1–2):241–4

Calcium homeostasis in cultured embryonic rat septohippocampal neurons is altered by ethanol and nerve growth factor before and during depolarization. Webb B, et al. **Brain Res** 1996 Aug 12;729(2):176–89

Single-channel and whole-cell analysis of ethanol inhibition of NMDA-activated currents in cultured mouse cortical and hippocampal neurons. Wright JM, et al. **Brain Res** 1996 Nov 4;738(2):249–56

Intraneuronal aluminum potentiates iron-induced oxidative stress in cultured rat hippocampal neurons. Xie CX, et al. **Brain Res** 1996 Dec 16;743(1–2):271–7

Electrophysiological actions of hemoglobin on rat hippocampal CA1 pyramidal neurons. Yip S, et al. **Brain Res** 1996 Mar 25;713(1–2):134–42

Extracellular Mg2+ modulates intracellular Ca2+ in acutely isolated hippocampal CA1 pyramidal cells of the guinea-pig. Zhang A, et al. **Brain Res** 1996 Jul 29; 728(2):204–8

The serotonergic and noradrenergic systems of the hippocampus: their interactions and the effects of antidepressant treatments. Mongeau R, et al. **Brain Res Brain Res Rev** 1997 Apr;23(3):145–95 (501 ref.)

Blockade of hippocampal long-term potentiation following soman pretreatment in the rat. Armstrong DL, et al. **Brain Res Bull** 1997;43(1):117–20

Interaction of cholecystokinin and glutamate agonists within the dLGN, the dentate gyrus, and the hippocampus. Gabriel S, et al. **Brain Res Bull** 1996;39(6):381–9

Dual effect of DMPP on the resting release of noradrenaline from rat hippocampal slices. Kiss JP, et al. **Brain Res Bull** 1997;43(3):257–62

The effects of anticonvulsant drugs on NMDA-EPSP, AMPA-EPSP, and GABA-IPSP in the rat hippocampus. Ko GY, et al. **Brain Res Bull** 1997;42(4):297–302

The presence of the complement cascade does not lead to neuronal cell death in primary hippocampal cultures. Manelli AM, et al. **Brain Res Bull** 1997;42(3):187–93

Blockade of N- and Q-type Ca2+ channels inhibit K(+)-evoked [3H]acetylcholine release in rat hippocampal slices. Saydoff JA, et al. **Brain Res Bull** 1996;40(4):283–6

The activation of calcium/calmodulin-dependent protein kinase II after glutamate or potassium stimulation in hippocampal slices. Tan SE, et al. **Brain Res Bull** 1997; 43(3):269–73

Prenatal cocaine exposure leads to enhanced long-term potentiation in region CA1 of hippocampus. Little JZ, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):117–9

Age-dependent effects of glutamate toxicity in the hippocampus. Liu Z, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):178–84

Vulnerability of CA1 neurons to glutamate is developmentally regulated. Marks JD, et al. **Brain Res Dev Brain Res** 1996 Dec 23;97(2):194–206

Entactin immunoreactivity in immature and adult rat brain. Niquet J, et al. **Brain Res Dev Brain Res** 1996 Sep 2; 95(2):227–33

NGF antibodies impair long-term depression at the mossy fibre-CA3 synapse in the developing hippocampus. Ruberti F, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1–2):295–7

Increase in mRNAs encoding neonatal II and III sodium channel alpha-isoforms during kainate-induced seizures in adult rat hippocampus. Gastaldi M, et al. **Brain Res Mol Brain Res** 1997 Mar;44(2):179–90

A facilitatory effect on the induction of long-term potentiation in vivo by chronic administration of antisense oligodeoxynucleotides against catalytic subunits of calcineurin. Ikegami S, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):183–91

Corticosteroid actions on the expression of kainate receptor subunit mRNAs in rat hippocampus. Joëls M, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):15–20

Early induction of mRNA for calbindin-D28k and BDNF but not NT-3 in rat hippocampus after kainic acid treatment. Lee S, et al. **Brain Res Mol Brain Res** 1997 Jul; 47(1–2):183–94

Chronic exposure to stress levels of corticosterone alters GABAA receptor subunit mRNA levels in rat hippocampus. Orchinik M, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):29–37

Increased expression of the mRNA for brain- and skin-type but not heart-type fatty acid binding proteins following kainic acid systemic administration in the hippocampal glia of adult rats. Owada Y, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):156–60

Effect of serotonin on cytokine mRNA expression in rat hippocampal astrocytes. Pousset F, et al. **Brain Res Mol Brain Res** 1996 May;38(1):54–62

The effect of cycloheximide on the regulation of proenkephalin and prodynorphin gene expressions induced by kainic acid in rat hippocampus. Won JS, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):303–10

Evidence that GABA, serotonin, and norepinephrine are involved in the modulation of in vitro rhythmical activity in rat hippocampal slices. Boguszewicz J, et al. **Can J Physiol Pharmacol** 1996 Dec;74(12):1322–6

Use-dependent depression of synaptic NMDA receptor mediated responses by dizocilpine (MK-801). Capek R, et al. **Can J Physiol Pharmacol** 1997 Feb;75(2):158–63

Dantrolene depolarizes hippocampal neurons in slices from rats. Krnjević K, et al. **Can J Physiol Pharmacol** 1996 Mar; 74(3):241–50

The depolarizing GABA response. Perkins KL, et al. **Can J Physiol Pharmacol** 1997 May;75(5):516–9 (24 ref.)

Real-time imaging of intrinsic optical signals during early excitotoxicity evoked by domoic acid in the rat hippocampal slice. Polischuk TM, et al. **Can J Physiol Pharmacol** 1996 Jun;74(6):712–22

2-Deoxy-D-glucose-induced changes in membrane potential, input resistance, and excitatory postsynaptic potentials of CA1 hippocampal neurons. Zhao YT, et al. **Can J Physiol Pharmacol** 1997 May;75(5):368–74

Interaction among alfaxalone, pregnenolone sulfate, and two GABAA agonists on hippocampal slices. SanMartin S, et al. **Cell Mol Neurobiol** 1996 Jun;16(3):427–31

4(R)- and 4(S)-(5-phenylpentyl)-glutamic acids attenuate excitatory postsynaptic potential on hippocampus without inhibiting postsynaptic NMDA and AMPA receptors. Tyan SH, et al. **Chin J Physiol** 1996;39(2):131–7

In vitro effect of Ginkgo biloba extract (EGb 761) on the activity of presynaptic cholinergic nerve terminals in rat hippocampus. Krištofiková Z, et al. **Dement Geriatr Cogn Disord** 1997 Jan-Feb;8(1):43–8

Effects of various valproic acid derivatives on low-calcium spontaneous epileptiform activity in hippocampal slices. Armand V, et al. **Epilepsy Res** 1995 Nov;22(3):185–92

Biphasic effects of carbamazepine on the dopaminergic system in rat striatum and hippocampus. Okada M, et al. **Epilepsy Res** 1997 Sep;28(2):143–53

Effects of felbamate, gabapentin and lamotrigine on seizure parameters and excitability in the rat hippocampus. Xiong ZQ, et al. **Epilepsy Res** 1997 Jun;27(3):187–94

Chronic epileptic foci induced by intracranial tetanus toxin. Jefferys JG. **Epilepsy Res Suppl** 1996;12:111–7

Effects of thyrotropin-releasing hormone on GABAergic synaptic transmission of the rat hippocampus. Atzori M, et al. **Eur J Neurosci** 1996 Jun;8(6):1299–305

Effects of the uncompetitive NMDA receptor antagonist memantine on hippocampal long-term potentiation, short-term exploratory modulation and spatial memory in awake, freely moving rats. Barnes CA, et al. **Eur J Neurosci** 1996 Mar;8(3):565–71

Protection against oxidative stress-induced neuronal cell death--a novel role for RU486. Behl C, et al. **Eur J Neurosci** 1997 May;9(5):912–20

Pre-exposure to subtoxic levels prevents kainic acid lesions in organotypic hippocampal slice cultures: effects of kainic acid on parvalbumin-immunoreactive neurons and expression of heat shock protein 72 following the induction of tolerance. Best N, et al. **Eur J Neurosci** 1996 Jun; 8(6):1209–19

BDNF down-regulates neurotrophin responsiveness, TrkB protein and TrkB mRNA levels in cultured rat hippocampal neurons. Frank L, et al. **Eur J Neurosci** 1996 Jun;8(6):1220–30

Effects of glutamate application on the rhythm of low magnesium-induced epileptiform activity in hippocampal slices of guinea-pigs. Lücke A, et al. **Eur J Neurosci** 1996 Oct;8(10):2137–48

Distinct effects of clostridial toxins on activity-dependent modulation of autaptic responses in cultured hippocampal neurons. Owe-Larsson B, et al. **Eur J Neurosci** 1997 Aug; 9(8):1773–7

Comparative patch-clamp studies with freshly dissociated rat hippocampal and striatal neurons on the NMDA receptor antagonistic effects of amantadine and memantine. Parsons CG, et al. **Eur J Neurosci** 1996 Mar;8(3):446–54

Comparative antagonism of kainate-activated kainate and AMPA receptors in hippocampal neurons. Paternain AV, et al. **Eur J Neurosci** 1996 Oct;8(10):2129–36

Axonal sprouting of CA1 pyramidal cells in hyperexcitable hippocampal slices of kainate-treated rats. Perez Y, et al. **Eur J Neurosci** 1996 Apr;8(4):736–748

Activation of multiple metabotropic glutamate receptor subtypes prevents NMDA-induced excitotoxicity in rat hippocampal slices. Pizzi M, et al. **Eur J Neurosci** 1996 Jul;8(7):1516–21

Imipramine increases the 5-HT1A receptor-mediated inhibition of hippocampal neurons without changing the 5-HT1A receptor binding. Bijak M, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):79–85

Neuroprotective effects of RPR 104632, a novel antagonist at the glycine site of the NMDA receptor, in vitro. Boireau A, et al. **Eur J Pharmacol** 1996 Apr 11;300(3):237–46

Losigamone decreases spontaneous synaptic activity in cultured hippocampal neurons. Draguhn A, et al. **Eur J Pharmacol** 1997 May 1;325(2–3):245–51

Different effects of baclofen and GTP gamma S on voltage-activated Ca2+ currents in rat hippocampal neurons in vitro. Frank C, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):87–92

8-cyclopentyltheophylline, an adenosine A1 receptor antagonist, inhibits the reversal of long-term potentiation in hippocampal CA1 neurons. Fujii S, et al. **Eur J Pharmacol** 1997 Jul 16;331(1):9–14

Inhibition of hippocampal acetylcholine release by

cannabinoids: reversal by SR 141716A. Gessa GL, et al. **Eur J Pharmacol** 1997 May 26;327(1):R1–2

Examination of the effect of the cannabinoid receptor agonist, CP 55,940, on electrically evoked transmitter release from rat brain slices. Gifford AN, et al. **Eur J Pharmacol** 1997 Apr 18;324(2–3):187–92

8–OH–DPAT–induced release of hippocampal noradrenaline in vivo: evidence for a role of both 5–HT1A and dopamine D1 receptors. Hajós–Korcsok E, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):285–91

Activation of group–II metabotropic glutamate receptors blocks induction of long–term potentiation and depotentiation in area CA1 of the rat in vivo. Hölscher C, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):155–63

Chronic morphine increases hippocampal acetylcholine release: possible relevance in drug dependence. Imperato A, et al. **Eur J Pharmacol** 1996 Apr 29;302(1–3):21–6

The synergism between ACPD and arachidonic acid on glutamate release in hippocampus is age–dependent. McGahon B, et al. **Eur J Pharmacol** 1996 Aug 15; 309(3):323–6

The use of invertebrate peptide toxins to establish Ca2+ channel identity of CA3–CA1 neurotransmission in rat hippocampal slices. Nooney JM, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):41–50

Beta–adrenergic dysfunction exacerbates impairment of working memory induced by hippocampal NMDA receptor blockade in rats. Ohno M, et al. **Eur J Pharmacol** 1996 Jun 20;307(1):21–6

Subcellular localization of ryanodine receptors in rat brain. Padua RA, et al. **Eur J Pharmacol** 1996 Mar 7;298(2):185–9

Fast desensitizing kainate–gated current resolved in whole–cell experiments on isolated rat hippocampal neurons. Pidoplichko VI, et al. **Eur J Pharmacol** 1996 May 6;303(1–2):145–9

Role of serotonergic neurotransmission in the hypnotic response to dexmedetomidine, an alpha 2–adrenoceptor agonist. Rabin BC, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1–3):51–9

Ibogaine and noribogaine potentiate the inhibition of adenylyl cyclase activity by opioid and 5–HT receptors. Rabin RA, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):343–8

Histamine modulation of glutamate release from hippocampal synaptosomes. Rodriguez FJ, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):283–6

Electrophysiological effects of fluoxetine and duloxetine in the dorsal raphe nucleus and hippocampus. Smith JE, et al. **Eur J Pharmacol** 1997 Mar 26;323(1):69–73

The differential antagonism by bicuculline and SR95531 of pentobarbitone–induced currents in cultured hippocampal neurons. Uchida I, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):89–96

Postischemic administration of adenosine amine congener (ADAC): analysis of recovery in gerbils. Von Lubitz DK, et al. **Eur J Pharmacol** 1996 Dec 5;316(2–3):171–9

Effect of repeated ipsapirone treatment on hippocampal excitatory synaptic transmission in the freely behaving rat: role of 5–HT1A receptors and relationship to anxiolytic effect. Xu L, et al. **Eur J Pharmacol** 1997 Mar 26; 323(1):59–68

Induction of c–fos gene expression by the selective sigma receptor ligand EMD 57445 in rat brain. Dahmen N, et al. **Eur Neuropsychopharmacol** 1996 Aug;6(3):237–43

Effect of idebenone on in vivo serotonin release and serotonergic receptors in young and aged rats. Scavini C, et al. **Eur Neuropsychopharmacol** 1996 May;6(2):95–102

A calcium antagonistic effect of the new antiepileptic drug lamotrigine. von Wegerer J, et al. **Eur Neuropsychopharmacol** 1997 May;7(2):77–81

Alkylxanthine adenosine antagonists and epileptiform activity in rat hippocampal slices in vitro. Chesi AJ, et al. **Exp Brain Res** 1997 Feb;113(2):303–10

Effects of T–type, L–type, N–type, P–type, and Q–type calcium channel blockers on stimulus–induced pre– and postsynaptic calcium fluxes in rat hippocampal slices. Igelmund P, et al. **Exp Brain Res** 1996 Apr;109(1):22–32

Extracellular K+ accumulations and synchronous GABA–mediated potentials evoked by 4–aminopyridine in the adult rat hippocampus. Morris ME, et al. **Exp Brain Res** 1996 Apr;109(1):71–82

An immunocytochemical study of calpain II in the hippocampus of rats injected with kainate. Ong WY, et al. **Exp Brain Res** 1997 Jan;113(1):117–29

An immunocytochemical study of glutamate receptors and glutamine synthetase in the hippocampus of rats injected with kainate. Ong WY, et al. **Exp Brain Res** 1996 May; 109(2):251–67

Seizures and hippocampal damage produced by dendrotoxin–K in rats is prevented by the 21–aminosteroid U–74389G. Bagetta G, et al. **Exp Neurol** 1997 Sep; 147(1):204–10

Combination therapy with MK–801 and alpha–phenyl–tert–butyl–nitrone enhances protection against ischemic neuronal damage in organotypic hippocampal slice cultures. Barth A, et al. **Exp Neurol** 1996 Oct;141(2):330–6

Down–regulation of mGluR5 by antisense deoxynucleotides alters pharmacological responses to applications of ACPD in the rat hippocampus. Dorri F, et al. **Exp Neurol** 1997 Sep;147(1):48–54

Calretinin–containing neurons in trimethyltin–induced neurodegeneration in the rat hippocampus: an immunocytochemical study. Geloso MC, et al. **Exp Neurol** 1997 Jul;146(1):67–73

Glucocorticoids increase the accumulation of reactive oxygen species and enhance adriamycin–induced toxicity in neuronal culture. McIntosh LJ, et al. **Exp Neurol** 1996 Oct;141(2):201–6

Novel differentially expressed genes induced by kainic acid in hippocampus: putative molecular effectors of plasticity and injury. Pázmán C, et al. **Exp Neurol** 1997 Aug; 146(2):502–12

Inhibition of TEA–induced LTP by aluminum. Platt B, et al. **Exp Neurol** 1996 Oct;141(2):240–7

Fetal hippocampal cells grafted to kainate–lesioned CA3 region of adult hippocampus suppress aberrant supragranular sprouting of host mossy fibers. Shetty AK, et al. **Exp Neurol** 1997 Feb;143(2):231–45

Bacterial alkaloids mitigate seizure–induced hippocampal damage and spatial memory deficits. Smith–Swintosky VL, et al. **Exp Neurol** 1996 Oct;141(2):287–96

Protective effects of peony root extract and its components on neuron damage in the hippocampus induced by the cobalt focus epilepsy model. Tsuda T, et al. **Exp Neurol** 1997 Aug;146(2):518–25

Intracellular calcium overload in a model of quinolinic acid neurotoxicity in organotypic culture of rat hippocampus; inhibited by nimodipine. Matyja E. **Folia Neuropathol** 1997; 35(1):8–17

2–chloro– and 2–bromo–2'–deoxyadenosine have no effect on the morphology of rat neural and glial cells in organotypic culture. Matyja E, et al. **Folia Neuropathol** 1996;34(1):41–7

Brain Fos induction is a sensitive biomarker for the lowest observed neuroexcitatory effects of domoic acid. Peng YG, et al. **Fundam Appl Toxicol** 1996 Jun;31(2):162–8

Behavorial responses to the 5–HT1A receptor antagonist NAN190 injected into rat CA1 hippocampal area. Belcheva I, et al. **Gen Pharmacol** 1997 Mar;28(3):435–41

Effect of dotarizine on K(+)–stimulated [3H]–serotonin and [3H]–acetylcholine release from rat hippocampus. Hadjiivanova C, et al. **Gen Pharmacol** 1997 Jan; 28(1):129–32

Neurosteroids modulate the reaction of astroglia to high extracellular potassium levels. Del Cerro S, et al. **Glia** 1996 Dec;18(4):293–305

Brain–derived neurotrophic factor increases Ca2+/calmodulin–dependent protein kinase 2 activity in hippocampus. Blanquet PR, et al. **J Biol Chem** 1997 Sep 26;272(39):24133–6

All–D–enantiomers of beta–amyloid exhibit similar biological properties to all–L–beta–amyloids. Cribbs DH, et al. **J Biol Chem** 1997 Mar 14;272(11):7431–6

Differential regulation of proline–rich tyrosine kinase 2/cell adhesion kinase beta (PYK2/CAKbeta) and pp125(FAK) by glutamate and depolarization in rat hippocampus. Siciliano JC, et al. **J Biol Chem** 1996 Nov 15; 271(46):28942–6

NO donors stimulate noradrenaline release from rat hippocampus in a calmodulin–dependent manner in the presence of L–cysteine. Satoh S, et al. **J Cell Physiol** 1996 Oct;169(1):87–96

Effects of the AMPA–receptor antagonist, NBQX, on neuron loss in dentate hilus of the hippocampal formation after 8, 10, or 12 min of cerebral ischemia in the rat. Hu P, et al. **J Cereb Blood Flow Metab** 1997 Feb;17(2):147–52

Reactive astrocytosis from excitotoxic injury in hippocampal organ culture parallels that seen in vivo. Kunkler PE, et al. **J Cereb Blood Flow Metab** 1997 Jan;17(1):26–43

Increased hypoxic tolerance by chemical inhibition of oxidative phosphorylation: "chemical preconditioning". Riepe MW, et al. **J Cereb Blood Flow Metab** 1997 Mar; 17(3):257–64

Estradiol increases the frequency of multiple synapse boutons in the hippocampal CA1 region of the adult female rat. Woolley CS, et al. **J Comp Neurol** 1996 Sep 9;373(1):108–17

Potentiation by dehydroepiandrosterone of the neuronal response to N–methyl–D–aspartate in the CA3 region of the rat dorsal hippocampus: an effect mediated via sigma receptors. Debonnel G, et al. **J Endocrinol** 1996 Sep;150 Suppl:S33–42

Neuroprotective effects of thiamine–megadoses after long–term ethanol application in the rat brain. A structural investigation of hippocampal CA1 pyramidal and cerebellar Purkinje neurons. Wenisch S, et al. **J Hirnforsch** 1996; 37(3):377–87

Molecular dissection of corticosteroid action in the rat hippocampus. Application of the differential display techniques. Vreugdenhil E, et al. **J Mol Neurosci** 1996 Summer;7(2):135–46 (40 ref.)

The long–term effect of NGF, b–FGF and Cerebrolysin on the spatial memory after fimbria–fornix lesion in rats. Francis–Turner L, et al. **J Neural Transm Suppl** 1996;47:277

Brain tissue hydrolysate, Cerebrolysin, acts on presynaptic adenosine receptors in the rat hippocampus. Wojtowicz JM, et al. **J Neural Transm Suppl** 1996;47:281

Chronic ethanol administration regulates the expression of GABAA receptor alpha 1 and alpha 5 subunits in the ventral tegmental area and hippocampus. Charlton ME, et al. **J Neurochem** 1997 Jan;68(1):121–7

Estrogens attenuate and corticosterone exacerbates excitotoxicity, oxidative injury, and amyloid beta–peptide toxicity in hippocampal neurons. Goodman Y, et al. **J Neurochem** 1996 May;66(5):1836–44

Differential vulnerability of the CA1 and CA3 subfields of the hippocampus to superoxide and hydroxyl radicals in vitro. Wilde GJ, et al. **J Neurochem** 1997 Aug;69(2):883–6

Modulation of 5HT1A responsiveness in CA1 pyramidal neurons by in vivo activation of corticosteroid receptors. Hesen W, et al. **J Neuroendocrinol** 1996 Jun;8(6):433–8

Hippocampal responses to corticosterone and stress, one of which is the 35,000 M(r) protein, glycerol phosphate dehydrogenase. Nicols NR, et al. **J Neuroendocrinol** 1996 Nov;8(11):867–76

Changes in noradrenergic sensitivity to tumor necrosis factor–alpha in brains of rats administered clonidine. Ignatowski TA, et al. **J Neuroimmunol** 1996 Oct; 70(1):55–63

Electrophysiological evidence for agonist properties of flumazenil, a benzodiazepine receptor antagonist, in rat hippocampus slices. Buldakova S, et al. **J Neurol Sci** 1997 Aug;149(2):121–6

Long–term antipsychotic medication of schizophrenics does not promote the development of Alzheimer's disease brain pathology. Niizato K, et al. **J Neurol Sci** 1996 Jun; 138(1–2):165–7

Imaging NMDA– and kainate–induced intrinsic optical signals from the hippocampal slice. Andrew RD, et al. **J Neurophysiol** 1996 Oct;76(4):2707–17

Ca2+ channel antagonist U–92032 inhibits both T–type Ca2+ channels and Na+ channels in hippocampal CA1 pyramidal neurons. Avery RB, et al. **J Neurophysiol** 1997 Feb;77(2):1023–8

Metabotropic glutamate receptor dependent EPSP and EPSP–spike potentiation in area CA1 of the submerged rat hippocampal slice. Breakwell NA, et al. **J Neurophysiol** 1996 Nov;76(5):3126–35

Calcium–independent actions of alpha–latrotoxin on spontaneous and evoked synaptic transmission in the hippocampus. Capogna M, et al. **J Neurophysiol** 1996 Nov; 76(5):3149–58

Heptanol but not fluoroacetate prevents the propagation of spreading depression in rat hippocampal slices. Largo C, et al. **J Neurophysiol** 1997 Jan;77(1):9–16

Dihydropyridine–sensitive, voltage–gated Ca2+ channels contribute to the resting intracellular Ca2+ concentration of hippocampal CA1 pyramidal neurons. Magee JC, et al. **J Neurophysiol** 1996 Nov;76(5):3460–70

Effects of 5–HT3 receptor antagonism on hippocampal cellular activity in the freely moving rat. Reznic J, et al. **J Neurophysiol** 1997 Jan;77(1):517–21

Hyperexcitability of entorhinal cortex and hippocampus after application of aminooxyacetic acid (AOAA) to layer III of the rat medial entorhinal cortex in vitro. Scharfman HE. **J Neurophysiol** 1996 Nov;76(5):2986–3001

Hyperexcitability in combined entorhinal/hippocampal slices of adult rat after exposure to brain–derived neurotrophic factor. Scharfman HE. **J Neurophysiol** 1997 Aug; 78(2):1082–95

Late sodium channel openings underlying epileptiform activity are preferentially diminished by the anticonvulsant phenytoin. Segal MM, et al. **J Neurophysiol** 1997 Jun; 77(6):3021–34

Calcium dependence of LTP induced by 2–deoxyglucose in CA1 neurons. Tekkök S, et al. **J Neurophysiol** 1996 Oct; 76(4):2343–52

Glycine regulation of synaptic NMDA receptors in hippocampal neurons. Wilcox KS, et al. **J Neurophysiol** 1996 Nov;76(5):3415–24

Characterizing the site and mode of action of dynorphin at hippocampal mossy fiber synapses in the guinea pig. Castillo PE, et al. **J Neurosci** 1996 Oct 1;16(19):5942–50

Cholinergic–dependent plateau potential in hippocampal CA1 pyramidal neurons. Fraser DD, et al. **J Neurosci** 1996 Jul 1;16(13):4113–28

cAMP–dependent enhancement of dihydropyridine–sensitive calcium channel availability in hippocampal neurons. Kavalali ET, et al. **J Neurosci** 1997 Jul 15;17(14):5334–48

Calcium–containing organelles display unique reactivity to chemical stimulation in cultured hippocampal neurons. Korkotian E, et al. **J Neurosci** 1997 Mar 1;17(5):1670–82

Serotonin 5–HT1A receptors modulate hippocampal reactivity to afferent stimulation. Levkovitz Y, et al. **J Neurosci** 1997 Jul 15;17(14):5591–8

gp120–induced neurotoxicity in hippocampal pyramidal neuron cultures: protective action of TGF–beta1. Meucci O, et al. **J Neurosci** 1996 Jul 1;16(13):4080–8

N–ethylmaleimide blocks depolarization–induced suppression of inhibition and enhances GABA release in the rat hippocampal slice in vitro. Morishita W, et al. **J Neurosci** 1997 Feb 1;17(3):941–50

Intraseptal procaine abolishes hypothalamic stimulation–induced wheel–running and hippocampal theta field activity in rats. Oddie SD, et al. **J Neurosci** 1996 Mar 1;16(5):1948–56

Postsynaptic inhibitors of calcium/calmodulin–dependent protein kinase type II block induction but not maintenance of pairing–induced long–term potentiation. Otmakhov N, et al. **J Neurosci** 1997 Jul 15;17(14):5357–65

Mechanisms of cell death induced by the mitochondrial toxin 3–nitropropionic acid: acute excitotoxic necrosis and delayed apoptosis. Pang Z, et al. **J Neurosci** 1997 May 1;17(9):3064–73

Mechanisms of H+ and Na+ changes induced by glutamate, kainate, and D–aspartate in rat hippocampal astrocytes. Rose CR, et al. **J Neurosci** 1996 Sep 1;16(17):5393–404

Basic fibroblast growth factor increases functional L-type Ca2+ channels in fetal rat hippocampal neurons: implications for neurite morphogenesis in vitro. Shitaka Y, et al. **J Neurosci** 1996 Oct 15;16(20):6476–89

GABAB receptor-activated inwardly rectifying potassium current in dissociated hippocampal CA3 neurons. Sodickson DL, et al. **J Neurosci** 1996 Oct 15;16(20):6374–85

Inhibition of GABAA synaptic responses by brain-derived neurotrophic factor (BDNF) in rat hippocampus. Tanaka T, et al. **J Neurosci** 1997 May 1;17(9):2959–66

Muscarinic modulation of spike backpropagation in the apical dendrites of hippocampal CA1 pyramidal neurons. Tsubokawa H, et al. **J Neurosci** 1997 Aug 1;17(15):5782–91

Effects of excitatory amino acid antagonists on dendrotoxin-induced increases in neurotransmitter release and epileptiform bursting in rat hippocampus in vitro. Dorandeu F, et al. **J Neurosci Res** 1997 Jun 15; 48(6):499–506

Short exposure to methylazoxymethanol causes a long-term inhibition of axonal outgrowth from cultured embryonic rat hippocampal neurons. Hoffman JR, et al. **J Neurosci Res** 1996 Nov 1;46(3):349–59

Myelin-associated glycoprotein inhibits neurite/axon growth and causes growth cone collapse. Li M, et al. **J Neurosci Res** 1996 Nov 15;46(4):404–14

Characterization of microwell cultures of dissociated brain tissue for studies of cell–cell interactions. Maar TE, et al. **J Neurosci Res** 1997 Jan 15;47(2):163–72

Corticosterone regulates expression of BDNF and trkB but not NT-3 and trkC mRNA in the rat hippocampus. Schaaf MJ, et al. **J Neurosci Res** 1997 May 15;48(4):334–41

Amyloid-beta proteins activate Ca(2+)-permeable channels through calcium-sensing receptors. Ye C, et al. **J Neurosci Res** 1997 Mar 1;47(5):547–54

Thromboxane synthetase inhibitor ameliorates delayed neuronal death in the CA1 subfield of the hippocampus after transient global ischemia in gerbils. Iijima T, et al. **J Neurosurg Anesthesiol** 1996 Jul;8(3):237–42

Effects of CDP-choline treatment on neurobehavioral deficits after TBI and on hippocampal and neocortical acetylcholine release. Dixon CE, et al. **J Neurotrauma** 1997 Mar;14(3):161–9

Polyhydroxylated C60, fullerenol, a novel free-radical trapper, prevented hydrogen peroxide- and cumene hydroperoxide-elicited changes in rat hippocampus in-vitro. Tsai MC, et al. **J Pharm Pharmacol** 1997 Apr; 49(4):438–45

Fluoxetine selectively alters 5-hydroxytryptamine1A and gamma-aminobutyric acidB receptor-mediated hyperpolarization in area CA1, but not area CA3, hippocampal pyramidal cells. Beck SG, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):115–22

L-deprenyl (selegiline) decreases excitatory synaptic transmission in the rat hippocampus via a dopaminergic mechanism. Hsu KS, et al. **J Pharmacol Exp Ther** 1996 Nov;279(2):740–7

Protracted treatment with diazepam reduces benzodiazepine1 receptor-mediated potentiation of gamma-aminobutyric acid-induced currents in dissociated rat hippocampal neurons. Itier V, et al. **J Pharmacol Exp Ther** 1996 Dec; 279(3):1092–9

Kappa opioid receptor tolerance in the guinea pig hippocampus. Jin W, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):123–8

Glycine and calcium-dependent effects of lead on N-methyl-D-aspartate receptor function in rat hippocampal neurons. Marchioro M, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):143–53

Amantadine inhibits nicotinic acetylcholine receptor function in hippocampal neurons. Matsubayashi H, et al. **J Pharmacol Exp Ther** 1997 May;281(2):834–44

S 15535, a novel benzodioxopiperazine ligand of serotonin (5-HT)1A receptors: II. Modulation of hippocampal serotonin release in relation to potential anxiolytic properties. Millan MJ, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):148–61

The stereo-isomers of the anticonvulsant ARL 12495AA limit sustained repetitive firing and modify action potential properties of rat hippocampal neurons in vitro. Norris SK, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1191–8

Felbamate decreases synaptic transmission in the CA1 region of rat hippocampal slices. Pugliese AM, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1100–8

Paraoxon: cholinesterase-independent stimulation of transmitter release and selective block of ligand-gated ion channels in cultured hippocampal neurons. Rocha ES, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1175–87

The potassium channel blockers 4-aminopyridine and tetraethylammonium increase the spontaneous basal release of [3H]5-hydroxytryptamine in rat hippocampal slices. Schechter LE. **J Pharmacol Exp Ther** 1997 Jul; 282(1):262–70

Metabotropic glutamate receptor agonists increase release of soluble amyloid precursor protein derivatives from rat brain cortical and hippocampal slices. Ulus IH, et al. **J Pharmacol Exp Ther** 1997 Apr;281(1):149–54

Action of methylmercury on GABA(A) receptor-mediated inhibitory synaptic transmission is primarily responsible for its early stimulatory effects on hippocampal CA1 excitatory synaptic transmission. Yuan Y, et al. **J Pharmacol Exp Ther** 1997 Jul;282(1):64–73

Sr2+ and quantal events at excitatory synapses between mouse hippocampal neurons in culture. Abdul-Ghani MA, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):113–25

Noradrenaline induces IPSCs in rat medial septal/diagonal band neurons: involvement of septohippocampal GABAergic neurons. Alreja M, et al. **J Physiol (Lond)** 1996 Jul 1;494 (Pt 1):201–15

High-threshold Ca2+ currents in rat hippocampal interneurones and their selective inhibition by activation of GABA(B) receptors. Lambert NA, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):115–27

Intracellular inositol 1,3,4,5-tetrakisphosphate enhances the calcium current in hippocampal CA1 neurones of the gerbil after ischaemia. Tsubokawa H, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):67–78

Novel glial-neuronal signalling by coactivation of metabotropic glutamate and beta-adrenergic receptors in rat hippocampus. Winder DG, et al. **J Physiol (Lond)** 1996 Aug 1;494 (Pt 3):743–55

Inhibitory effect of the NMDA receptor antagonist, dizocilpine (MK-801), on the development of morphine dependence. Makimura M, et al. **J Toxicol Sci** 1996 May; 21(2):135–41

Protective effect of ifenprodil against glucose deprivation-induced damage in cultured rat hippocampal neurons. Geng MY, et al. **Jpn J Pharmacol** 1997 Jan; 73(1):97–100

Neuroprotective effect of TTC-909, an isocarbacyclin methyl ester incorporated in lipid microspheres, on hippocampal delayed neuronal death of stroke-prone spontaneously hypertensive rats. Yamashita K, et al. **Jpn J Pharmacol** 1996 Aug;71(4):351–5

Insulin-like growth factor-1 attenuates apoptosis in hippocampal neurons caused by cerebral ischemia and reperfusion in stroke-prone spontaneously hypertensive rats. Tagami M, et al. **Lab Invest** 1997 May;76(5):613–7

Melatonin is protective against MPTP-induced striatal and hippocampal lesions. Acuña-Castroviejo D, et al. **Life Sci** 1997;60(2):PL23–9

Electrophysiological approach of the antiepileptic effect of dexamethasone on hippocampal slice culture using a multirecording system: the Physiocard. Duport S, et al. **Life Sci** 1997;60(17):PL 251–6

Flumazenil does not affect the increase in rat hippocampal extracellular glutamate concentration produced during thioacetamide-induced hepatic encephalopathy. McArdle P, et al. **Metab Brain Dis** 1996 Dec;11(4):329–342

Effects of intracerebroventricular injection of histamine on memory deficits induced by hippocampal lesions in rats. Kamei C, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):253–9

Expression of brain-derived neurotrophic factor mRNA stimulated by basic fibroblast growth factor and platelet-derived growth factor in rat hippocampal cell line. Kwon YK. **Mol Cells** 1997 Jun 30;7(3):320–5

The subiculum: a potential site of action for novel antipsychotic drugs? Greene JR. **Mol Psychiatry** 1996 Nov; 1(5):380–7 (69 ref.)

Differential sensitivity of c-Fos expression in hippocampus and other brain regions to moderate and low doses of alcohol. Ryabinin AE, et al. **Mol Psychiatry** 1997 Jan; 2(1):32–43

Toosendanin facilitates [3H]noradrenaline release from rat hippocampal slices. Hua-Yu H, et al. **Nat Toxins** 1996; 4(2):92–5

Hippocampal GABA(A) channel conductance increased by diazepam. Eghbali M, et al. **Nature** 1997 Jul 3; 388(6637):71–5

Hippocampal synaptic transmission enhanced by low concentrations of nicotine [see comments] Gray R, et al. **Nature** 1996 Oct 24;383(6602):713–6. Comment in: Nature 1996 Oct 24;383(6602):670–1.

Neurobiology: memories of nicotine [news; comment] McGehee DS, et al. **Nature** 1996 Oct 24;383(6602):670–1 . Comment on: Nature 1996 Oct 24;383(6602):713–6.

Aconitine inhibits epileptiform activity in rat hippocampal slices. Ameri A, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):80–5

Inhibition of rat hippocampal excitability by the plant alkaloid 3-acetylaconitine mediated by interaction with voltage-dependent sodium channels. Ameri A. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):273–80

Electrophysiological actions of the plant alkaloid 6-benzoylheteratisine in rat hippocampal slices. Ameri A. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):538–44

Repeated treatment with antidepressant drugs induces subsensitivity to the excitatory effect of 5-HT4 receptor activation in the rat hippocampus. Bijak M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):14–9

A microdialysis study of glycinamide, glycine and other amino acid neurotransmitters in rat frontal cortex and hippocampus after the administration of milacemide, a glycine pro-drug. Doheny MH, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jul; 354(2):157–63

Modulation of cortical acetylcholine release by serotonin: the role of substance P interneurons. Feuerstein TJ, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov; 354(5):618–26

Electrophysiological evidence for the implication of cholecystokinin in the modulation of the N-methyl-D-aspartate response by sigma ligands in the rat CA3 dorsal hippocampus. Gronier B, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):382–90

Regional differences in the effect of the combined treatment of WAY 100635 and fluoxetine: an in vivo microdialysis study. Malagié I, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):785–90

Functional regulation by dopamine receptors of serotonin release from the rat hippocampus: in vivo microdialysis study. Matsumoto M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):621–9

Presynaptic inhibitory serotonin autoreceptors in the human hippocampus. Schlicker E, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Aug–Sep; 354(3):393–6

Chronic dexamethasone administration decreases noradrenaline-stimulated, but not serotonin-stimulated, phosphoinositide metabolism in the rat brain. Takahashi M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):616–20

Effects of aging and chronic nimodipine on hippocampal binding of [3H]CGS 19755. Kusztos RD, et al. **Neurobiol Aging** 1996 May-Jun;17(3):453–7

Elusive roles for astrocytes in neurodegenerative disorders. Mattson MP, et al. **Neurobiol Aging** 1996 May-Jun; 17(3):485–7; discussion 488–90

Interleukin-1 beta inhibits glutamate release in hippocampus of young, but not aged, rats. Murray CA, et al. **Neurobiol Aging** 1997 May-Jun;18(3):343–8

Intraseptal infusions of muscimol impair spontaneous alternation performance: infusions of glucose into the hippocampus, but not the medial septum, reverse the deficit. Parent MB, et al. **Neurobiol Learn Mem** 1997 Jul; 68(1):75–85

Different brain areas are involved in memory expression at different times from training. Quillfeldt JA, et al. **Neurobiol Learn Mem** 1996 Sep;66(2):97–101

Intrahippocampal injections of exogenous beta-amyloid induce postdelay errors in an eight-arm radial maze. Sweeney WA, et al. **Neurobiol Learn Mem** 1997 Jul; 68(1):97–101

Retrieval of overtrained place navigation during occlusion of one eye and ipsi- or contralateral blockade of relevant brain centers in rats. Turner LF, et al. **Neurobiol Learn Mem** 1997 Jul;68(1):60–7

Opposite short-term changes induced by an organophosphate in cortical and hippocampal evoked activity. Papp A, et al. **Neurobiology (Bp)** 1996;4(4):431–40

Neuropeptide Y receptors from calf brain: effect of crude Conus venom preparations on [3H]NPY binding. Czerwiec E, et al. **Neurochem Int** 1996 Dec;29(6):669–76

L-alpha-aminoadipate inhibits kynurenate synthesis in rat brain hippocampus and tissue culture. Chang YF, et al. **Neurochem Res** 1997 Jul;22(7):825–9

Developmental lead exposure and two-way active avoidance training alter the distribution of protein kinase C activity in the rat hippocampus. Chen HH, et al. **Neurochem Res** 1997 Sep;22(9):1119–25

Opiate modulation of striatal dopamine and hippocampal norepinephrine release following morphine withdrawal. Grasing K, et al. **Neurochem Res** 1997 Mar;22(3):239–48

Cytokine-induced selective increase of high-molecular-weight bFGF isoforms and their subcellular kinetics in cultured rat hippocampal astrocytes. Kamiguchi H, et al. **Neurochem Res** 1996 Jun;21(6):701–6

In vitro effects of arachidonic and L-glutamic acids on the high-affinity choline transport in rat hippocampus. Krištofiková Z, et al. **Neurochem Res** 1997 Jan;22(1):67–73

Alkylation of [3H]8-OH-DPAT binding sites in rat cerebral cortex and hippocampus. Nénonéné EK, et al. **Neurochem Res** 1996 Feb;21(2):167–76

Dexamethasone in the last week of pregnancy attenuates hippocampal glucocorticoid receptor gene expression and elevates blood pressure in the adult offspring in the rat. Levitt NS, et al. **Neuroendocrinology** 1996 Dec;64(6):412–8

Hippocampal long- and short-term potentiation is modulated by adrenalectomy and corticosterone. Smriga M, et al. **Neuroendocrinology** 1996 Jul;64(1):35–41

Inhibitory effect of NPY on the picrotoxin-induced activity in the hippocampus: a behavioural and electrophysiological study. Smiałowska M, et al. **Neuropeptides** 1996 Feb; 30(1):7–12

Sequence-independent effects of phosphorothiolated oligonucleotides on synaptic transmission and excitability in the hippocampus in vivo. Abraham WC, et al. **Neuropharmacology** 1997 Mar;36(3):345–52

(-)-pindolol and (+/-)-tertatolol affect rat hippocampal 5-HT levels through mechanisms involving not only 5-HT1A, But also 5-HT1B receptors. Assie MB, et al. **Neuropharmacology** 1996 Feb;35(2):213–22

Alpha 2-adrenergic agonists reduce glutamate release and glutamate receptor-mediated calcium changes in hippocampal slices during hypoxia. Bickler PE, et al. **Neuropharmacology** 1996 Jun;35(6):679–87

Ibogaine block of the NMDA receptor: in vitro and in vivo studies. Chen K, et al. **Neuropharmacology** 1996 Apr; 35(4):423–31

Activation of metabotropic glutamate receptors induce differential effects on synaptic transmission in the dentate gyrus and CA1 of the hippocampus in the anaesthetized rat. Davis S, et al. **Neuropharmacology** 1996 Mar; 35(3):337–46

Midazolam inhibits long–term potentiation through modulation of GABAA receptors. Evans MS, et al. **Neuropharmacology** 1996 Mar;35(3):347–57

Adenosine A3 receptors potentiate hippocampal calcium current by a PKA–dependent/PKC–independent pathway. Fleming KM, et al. **Neuropharmacology** 1997 Mar; 36(3):353–62

The effects of metabolic stress on glutamate receptor–mediated depolarizations in the in vitro rat hippocampal slice. Frenguelli BG. **Neuropharmacology** 1997 Jul;36(7):981–91

Mechanisms for tolerance to methamphetamine effects. Gygi MP, et al. **Neuropharmacology** 1996 Jun;35(6):751–7

NMDA receptor–dependent and –independent long–term depression in the CA1 region of the adult rat hippocampus in vitro. Kemp N, et al. **Neuropharmacology** 1997 Mar; 36(3):397–9

Ontogenetic and pharmacological studies on metabotropic glutamate receptors coupled to phospholipase D activation. Klein J, et al. **Neuropharmacology** 1997 Mar;36(3):305–11

Physiological comparison of alpha–ethyl–alpha–methyl–gamma–thiobutyrolactone with benzodiazepine and barbiturate modulators of GABAA receptors. Mathews GC, et al. **Neuropharmacology** 1996 Feb;35(2):123–36

Electrophysiological effects of the anticonvulsant remacemide hydrochloride and its metabolite ARL 12495AA on rat CA1 hippocampal neurons in vitro. Norris SK, et al. **Neuropharmacology** 1997 Jul;36(7):951–9

Metabotropic glutamate receptor mediated long–term depression in developing hippocampus. Overstreet LS, et al. **Neuropharmacology** 1997 Jun;36(6):831–44

Opposite effects of TGF–beta 1 on rapidly– and slowly–triggered excitotoxic injury. Prehn JH, et al. **Neuropharmacology** 1996 Mar;35(3):249–56

Modulation of long–term potentiation in CA1 region of mouse hippocampal brain slices by GABAA receptor benzodiazepine site ligands. Seabrook GR, et al. **Neuropharmacology** 1997 Jun;36(6):823–30

Mechanisms of 1S,3R–ACPD–induced neuroprotection in rat hippocampal slices subjected to oxygen and glucose deprivation. Small DL, et al. **Neuropharmacology** 1996; 35(8):1037–48

Bepridil–induced blockade of NMDA channels in rat hippocampal neurones. Sobolevsky A, et al. **Neuropharmacology** 1997 Mar;36(3):319–24

L–trans–2,3–pyrrolidine dicarboxylate: characterization of a novel excitotoxin. Willis CL, et al. **Neuropharmacology** 1996 May;35(5):531–9

Effects of neurosteroid and benz[e]indene enantiomers on GABAA receptors in cultured hippocampal neurons and transfected HEK–293 cells. Zorumski CF, et al. **Neuropharmacology** 1996;35(9–10):1161–8

Modulation of protein kinase C isozymes and substrates by lithium: the role of myo–inositol. Manji HK, et al. **Neuropsychopharmacology** 1996 Oct;15(4):370–81

ALS IgGs suppress [Ca2+]i rise through P/Q–type calcium channels in central neurones in culture. Andjus PR, et al. **Neuroreport** 1996 Aug 12;7(12):1914–6

Viable cultured neurons in ambient carbon dioxide and hibernation storage for a month. Brewer GJ, et al. **Neuroreport** 1996 Jun 17;7(9):1509–12

Prevention of zinc neurotoxicity in vivo by N,N,N',N'–tetrakis (2–pyridylmethyl) ethylene–diamine (TPEN). Cuajungco MP, et al. **Neuroreport** 1996 May 17; 7(7):1301–4

Modulation of A–currents by [K+]o in acutely isolated pyramidal neurones of juvenile rat entorhinal cortex and hippocampus. Eder C, et al. **Neuroreport** 1996 Jul 8; 7(10):1565–8

Fast increases of AMPA receptor sensitivity following tetanus–induced potentiation in the CA1 region of the rat hippocampus. Fedorov NB, et al. **Neuroreport** 1997 Jan 20;8(2):411–4

Cellular localization of neuropeptide–Y receptors in the rat hippocampus: long–term effects of limbic seizures. Gobbi M, et al. **Neuroreport** 1996 Jun 17;7(9):1475–80

Interaction between the intracellular Ca2+ stores in rat dissociated hippocampal neurones. Imanishi T, et al. **Neuroreport** 1996 May 31;7(8):1421–6

Seizure–induced damage to the hippocampus is prevented by modulation of the GABAergic system. Jolkkonen J, et al. **Neuroreport** 1996 Aug 12;7(12):2031–5

Region–specific serotonin1A receptor turnover following irreversible blockade with EEDQ. Keck BJ, et al. **Neuroreport** 1996 Nov 4;7(15–17):2717–21

Increased expression of cyclin D1 in the adult rat brain following kainic acid treatment. Liu W, et al. **Neuroreport** 1996 Nov 4;7(15–17):2785–9

Domoic acid induces the release of glutamate in the rat hippocampal CA3 subregion. Malva JO, et al. **Neuroreport** 1996 May 17;7(7):1330–4

4–Hydroxynonenal, a product of lipid peroxidation, inhibits dephosphorylation of the microtubule–associated protein tau. Mattson MP, et al. **Neuroreport** 1997 Jul 7; 8(9–10):2275–81

Working memory failure by combined blockade of muscarinic and beta–adrenergic transmission in the rat hippocampus. Ohno M, et al. **Neuroreport** 1997 May 6; 8(7):1571–5

Functional stability of hippocampal slices after treatment with cyclooxygenase inhibitors. Pakhotin PI, et al. **Neuroreport** 1997 May 6;8(7):1755–9

Calmodulin in ischemic neurotoxicity of rat hippocampus in vitro. Sun X, et al. **Neuroreport** 1997 Jan 20;8(2):415–8

Increased Gi alpha and Go alpha mRNAs in hippocampus after repeated methamphetamine administration. Ujike H, et al. **Neuroreport** 1996 Aug 12;7(12):2036–40

Regional and temporal modulation of brain glycoprotein synthesis by corticosterone. Venero C, et al. **Neuroreport** 1996 Nov 4;7(15–17):2819–22

Effects of in situ manipulation of nitric oxide on rat hippocampal CA3 neurone excitability. Wülfert E, et al. **Neuroreport** 1996 Nov 4;7(15–17):2737–42

Nicotine modulates the neurotoxic effect of beta–amyloid protein(25–35)) in hippocampal cultures. Zamani MR, et al. **Neuroreport** 1997 Jan 20;8(2):513–7

Atropine inhibits associative potentiation in the hippocampus. Sokolov MV, et al. **Neurosci Behav Physiol** 1997 May–Jun; 27(3):225–8

Modulation of the reaction of hippocampal neurons to sensory stimuli by cholinergic substances. Vinogradova OS, et al. **Neurosci Behav Physiol** 1996 Mar–Apr;26(2):113–24

(–)Deprenyl reduces delayed neuronal death of hippocampal pyramidal cells. Paterson IA, et al. **Neurosci Biobehav Rev** 1997 Mar;21(2):181–6 (27 ref.)

Age–dependent differences in sensitivity to aconitine of rat hippocampal slices. Ameri A. **Neurosci Lett** 1996 Sep 20; 216(1):13–6

Ketoprofen, a non–steroidal anti–inflammatory drug prevents the late–onset reduction of muscarinic receptors in gerbil hippocampus after transient forebrain ischemia. Asanuma M, et al. **Neurosci Lett** 1997 Apr 4;225(2):109–12

Increased beta–amyloid precursor protein mRNA in the rat cerebral cortex and hippocampus after chronic systemic atropine treatment. Beach TG, et al. **Neurosci Lett** 1996 May 24;210(1):13–6

Low Mg2+ induced epileptiform activity in the subiculum before and after disconnection from rat hippocampal and entorhinal cortex slices. Behr J, et al. **Neurosci Lett** 1996 Feb 16;205(1):25–8

Anticonvulsant doses of carbamazepine increase hippocampal extracellular serotonin in genetically epilepsy–prone rats: dose response relationships. Dailey JW, et al. **Neurosci Lett** 1997 May 9;227(1):13–6

Dose–dependent delivery of colchicine to the rat hippocampus by microdialysis. Desrayaud S, et al. **Neurosci Lett** 1996 Feb 16;205(1):9–12

Activation of group I mGluRs potentiates NMDA responses in rat hippocampal slices [published erratum appears in Neurosci Lett 1996 Mar 29;207(2):142] Fitzjohn SM, et al. **Neurosci Lett** 1996 Jan 26;203(3):211–3

Concentration of putrescine in plasma, frontal cortex and hippocampus of rats after systemic administration of the convulsants N–methyl–D–aspartate, pentylentetrazol, picrotoxinine, lindane and 4–aminopyridine. Giménez–Llort L, et al. **Neurosci Lett** 1996 Oct 11; 217(1):1–4

Activation of GABAergic function necessary for afterdischarge generation in rat hippocampal slices. Higashima M, et al. **Neurosci Lett** 1996 Mar 29;207(2):101–4

Acute effect of c–fos antisense oligodeoxynucleotide on hippocampal partial seizures elicited by electrical stimulation in rats. Katsumori H, et al. **Neurosci Lett** 1997 Apr 11;225(3):149–52

Excitatory effects induced by carbachol on bursting neurons of the rat subiculum. Kawasaki H, et al. **Neurosci Lett** 1996 Nov 15;219(1):1–4

A role for adenosine in the regulation of long–term depression in the adult rat hippocampus in vitro. Kemp N, et al. **Neurosci Lett** 1997 Apr 11;225(3):189–92

In utero cocaine exposure decreases dopamine D1 receptor modulation of hippocampal long–term potentiation in the rabbit. Little JZ, et al. **Neurosci Lett** 1996 Sep 13; 215(3):157–60

The alpha 2–adrenoceptor antagonist idazoxan is an agonist at 5–HT1A autoreceptors modulating serotonin synthesis in the rat brain in vivo. Lladó J, et al. **Neurosci Lett** 1996 Nov 1;218(2):111–4

Ibotenic acid in the medial septum increased brain–derived neurotrophic factor mRNA levels in the dorsal rat hippocampal formation. Mahy N, et al. **Neurosci Lett** 1996 Aug 9;213(3):169–72

Rapid tolerance to benzodiazepine modifies rat hippocampal synaptic plasticity. Marín RH, et al. **Neurosci Lett** 1996 Sep 13;215(3):149–52

Conflict situation increases serotonin release in rat dorsal hippocampus: in vivo study with microdialysis and Vogel test. Matsuo M, et al. **Neurosci Lett** 1996 Sep 13; 215(3):197–200

In situ nick end–labeling detects necrosis of hippocampal pyramidal cells induced by kainic acid. Nishiyama K, et al. **Neurosci Lett** 1996 Jul 12;212(2):139–42

Effect of cholinergic activation by physostigmine on working memory failure caused in rats by pharmacological manipulation of hippocampal glutamatergic and 5–HTergic neurotransmission. Ohno M, et al. **Neurosci Lett** 1996 Oct 11;217(1):21–4

Presence of the voltage–gated potassium channels sensitive to charybdotoxin in inhibitory presynaptic terminals of cultured rat hippocampal neurons. Ohno–Shosaku T, et al. **Neurosci Lett** 1996 Apr 5;207(3):195–8

Epileptiform activity and hippocampal damage produced by intrahippocampal injection of guanidinosuccinic acid in rat. Pan JC, et al. **Neurosci Lett** 1996 May 10;209(2):121–4

Brain–derived neurotrophic factor, but not neurotrophin–3, prevents ischaemia–induced neuronal cell death in organotypic rat hippocampal slice cultures. Pringle AK, et al. **Neurosci Lett** 1996 Jun 28;211(3):203–6

Effects of the antiepileptic drug felbamate on long–term potentiation in the CA1 region of rat hippocampal slices. Pugliese AM, et al. **Neurosci Lett** 1996 Aug 30;215(1):21–4

Redox sites of NMDA receptors can modulate epileptiform activity in hippocampal slices from kainic acid–treated rats. Quesada O, et al. **Neurosci Lett** 1996 Jul 19;212(3):171–4

Selective opposite modulation of dentate granule cells excitability by mu and kappa opioids in rat hippocampal slices. Sagratella S, et al. **Neurosci Lett** 1996 Feb 16; 205(1):53–6

Up– and down–regulation of calpain inhibitor polypeptide, calpastatin, in postischemic hippocampus. Saido TC, et al. **Neurosci Lett** 1997 May 16;227(2):75–8

Regional differences in the depressant effects of midazolam on excitatory synaptic transmission in the rat hippocampus. Sato Y, et al. **Neurosci Lett** 1997 Feb 28;223(3):181–4

Responses to NMDA in cultured hippocampal neurons from trisomy 16 embryonic mice. Siarey RJ, et al. **Neurosci Lett** 1997 Sep 5;232(3):131–4

Effects of NMDA antagonists on seizure thresholds induced by intrahippocampal microdialysis of picrotoxin in freely moving rats. Sierra–Paredes G, et al. **Neurosci Lett** 1996 Oct 25;218(1):62–6

Age–dependent effect of AF64A on cholinergic activity in the septo–hippocampal pathway of the rat brain: decreased responsiveness in aged rats. El Tamer A, et al. **Neurosci Lett** 1996 Jan 19;203(2):123–6

Microglial activation by epileptic activities through the propagation pathway of kainic acid–induced hippocampal seizures in the rat. Taniwaki Y, et al. **Neurosci Lett** 1996 Oct 11;217(1):29–32

Kainic acid–induced gene expression in the rat hippocampus is severely affected by adrenalectomy. Vreugdenhil E, et al. **Neurosci Lett** 1996 Jul 12;212(2):75–8

Tetrahydroberberine suppresses dopamine–induced potassium current in acutely dissociated CA1 pyramidal neurons from rat hippocampus. Wu J, et al. **Neurosci Lett** 1996 Apr 5;207(3):155–8

Extracellular sodium concentration has diverse effects on the hypoxia–induced increase in intracellular Ca2+ in rat hippocampal slices. Yamaguchi S, et al. **Neurosci Lett** 1997 Sep 5;232(3):163–6

Chronic cocaine intoxication alters hippocampal sodium channel function. Zhai J, et al. **Neurosci Lett** 1997 Jun 27; 229(2):121–4

The effects of D–alpha–aminoadipic acid on long–term potentiation in the hippocampus of the rat in vitro. Hicks TP, et al. **Neurosci Res** 1996 Jan;24(2):139–50

Depolarization with high–K+ causes Ca(2+)–independent but partially Cl(–)–dependent glutamate release in rat hippocampal slice cultures. Takahashi M, et al. **Neurosci Res** 1996 Aug;25(4):399–402

Muscimol–induced long–term depression in the hippocampus: lack of dependence on extracellular calcium. Akhondzadeh S, et al. **Neuroscience** 1996 Mar;71(2):581–8

N–methyl–D–aspartate and non–N–methyl–D–aspartate receptors mediate seizures and CA1 hippocampal damage induced by dendrotoxin–K in rats. Bagetta G, et al. **Neuroscience** 1996 Apr;71(3):613–24

Differential effects of histamine on the N–methyl–D–aspartate channel in hippocampal slices and cultures. Bekkers JM, et al. **Neuroscience** 1996 Jun; 72(3):669–77

Overriding the brain's intrinsic resistance to leukocyte recruitment with intraparenchymal injections of recombinant chemokines. Bell MD, et al. **Neuroscience** 1996 Sep;74(1):283–92

Hippocampal long–term potentiation and spatial learning in the rat: effects of GABAB receptor blockade. Brucato FH, et al. **Neuroscience** 1996 Sep;74(2):331–9

Intracerebral grafts promote recovery of the cholinergic innervation of the hippocampal formation in rats withdrawn from chronic alcohol intake. An immunocytochemical study. Cadete–Leite A, et al. **Neuroscience** 1997 Jul;79(2):383–97

Long–term glucocorticoid treatments decrease local cerebral blood flow in the rat hippocampus, in association with histological damage. Endo Y, et al. **Neuroscience** 1997 Aug; 79(3):745–52

Distribution of the messenger RNA for the extracellularly regulated kinases 1, 2 and 3 in rat brain: effects of excitotoxic hippocampal lesions. Hollister RD, et al. **Neuroscience** 1997 Aug;79(4):1111–9

Phorbol ester and forskolin suppress the presynaptic inhibitory action of group–II metabotropic glutamate receptor at rat hippocampal mossy fibre synapse. Kamiya H, et al. **Neuroscience** 1997 Sep;80(1):89–94

Effects of pilocarpine and kainate–induced seizures on N–methyl–D–aspartate receptor gene expression in the rat hippocampus. Lasón W, et al. **Neuroscience** 1997 Jun; 78(4):997–1004

Atypical antipsychotics block the excitatory effects of

serotonin in septohippocampal neurons in the rat. Liu W, et al. **Neuroscience** 1997 Jul;79(2):369–82

Inhibition by compactin demonstrates a requirement of isoprenoid metabolism for long-term potentiation in rat hippocampal slices. Matthies H Jr, et al. **Neuroscience** 1997 Jul;79(2):341–6

Hippocampal-dependent learning and experience-dependent activation of the hippocampus are preferentially disrupted by ethanol. Melia KR, et al. **Neuroscience** 1996 Sep; 74(2):313–22

Chronic ethanol consumption in rats: correlation between memory performance and hippocampal acetylcholine release in vivo. Melis F, et al. **Neuroscience** 1996 Sep; 74(1):155–9

Alterations in hippocampal expression of SNAP-25, GAP-43, stannin and glial fibrillary acidic protein following mechanical and trimethyltin-induced injury in the rat. Patanow CM, et al. **Neuroscience** 1997 Jan; 76(1):187–202

Anoxic preconditioning in hippocampal slices: role of adenosine. Pérez-Pinzón MA, et al. **Neuroscience** 1996 Dec; 75(3):687–94

Electrophysiological changes in rat hippocampal pyramidal neurons produced by cholecystokinin octapeptide. Shinohara S, et al. **Neuroscience** 1997 Jun;78(4):1005–16

Effects of pharmacologically facilitating glutamatergic transmission in the trisynaptic intrahippocampal circuit. Sirvio J, et al. **Neuroscience** 1996 Oct;74(4):1025–35

Protective effect of melatonin against hippocampal DNA damage induced by intraperitoneal administration of kainate to rats. Uz T, et al. **Neuroscience** 1996 Aug; 73(3):631–6

2-Iminothiazolidine-4-carboxylic acid produces hippocampal CA1 lesions independent of seizure excitation and glutamate receptor activation. Bitner RS, et al. **Neurotoxicology** 1997;18(1):191–200

Decreased GAP-43 accumulation in neurite tips of cultured hippocampal neurons by acrylamide. Clarke CH, et al. **Neurotoxicology** 1996 Summer;17(2):397–406

The effects of dextromethorphan on kainic acid-induced seizures in the rat. Kim HC, et al. **Neurotoxicology** 1996 Summer;17(2):375–85

Neuronal loss in hippocampus in rats exposed to toluene. Korbo L, et al. **Neurotoxicology** 1996 Summer;17(2):359–66

Glucocorticoids may enhance oxygen radical-mediated neurotoxicity. McIntosh LJ, et al. **Neurotoxicology** 1996 Fall-Winter;17(3–4):873–82 (106 ref.)

Immunohistochemical localization of neuronal and glial calcium-binding proteins in hippocampus of chronically low level lead exposed rhesus monkeys. Noack S, et al. **Neurotoxicology** 1996 Fall-Winter;17(3–4):679–84

GAP-43 mRNA expression in the developing rat brain: alterations following lead-acetate exposure. Schmitt TJ, et al. **Neurotoxicology** 1996 Summer;17(2):407–14

Effects of the neuropeptide thyrotropin-releasing hormone on GABAergic synaptic transmission of CA1 neurons of the rat hippocampal slice during hypoxia. Barbieri M, et al. **Peptides** 1997;18(4):585–91

Reversible inhibition of IK, IAHP, Ih and ICa currents by internally applied gluconate in rat hippocampal pyramidal neurones. Velumian AA, et al. **Pflugers Arch** 1997 Jan; 433(3):343–50

Intrahippocampal administration of lead (Pb) impairs performance of rats in the Morris water maze. Jett DA, et al. **Pharmacol Biochem Behav** 1997 May-Jun; 57(1–2):263–9

Intraseptal microinjection of beta-funaltrexamine blocked a microwave-induced decrease of hippocampal cholinergic activity in the rat. Lai H, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):613–6

Protective effects of vanoxeamine (GBR 12909) against ischaemia-induced hyperactivity and neurodegeneration in the gerbil model of cerebral ischaemia. Maginn M, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):727–35

Noradrenergic DSP-4 lesions aggravate impairment of working memory produced by hippocampal muscarinic blockade in rats. Ohno M, et al. **Pharmacol Biochem Behav** 1997 May-Jun;57(1–2):257–61

Cognitive dysfunctions induced by scopolamine are reduced by systemic or intrahippocampal mineralocorticoid receptor blockade. Smythe JW, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):613–21

Normalizing effects of nicotine and a novel nicotinic agonist on hippocampal auditory gating in two animal models. Stevens KE, et al. **Pharmacol Biochem Behav** 1997 Aug; 57(4):869–74

Deficits in water escape performance and alterations in hippocampal cholinergic mechanisms associated with neonatal monosodium glutamate treatment in mice. Wong PT, et al. **Pharmacol Biochem Behav** 1997 May-Jun; 57(1–2):383–8

Effects of ethanol and acetate on adenosine production in rat hippocampal slices. Fredholm BB, et al. **Pharmacol Toxicol** 1996 Sep;79(3):120–3

Modulation of glucocorticoid receptor gene expression by antidepressant drugs. Barden N. **Pharmacopsychiatry** 1996 Jan;29(1):12–22

The action of pramiracetam on consequences of hypobaric hypoxia is only moderate. Marešová D, et al. **Physiol Res** 1996;45(3):245–8

Repeated cocaine administration down-regulates glucocorticoid receptors in the rat brain cortex and hippocampus. Budziszewska B, et al. **Pol J Pharmacol** 1996 Nov-Dec;48(6):575–81

Antidepressant-induced adaptive changes in the effects of 5-HT, 5-HT1A and 5-HT4 agonists on the population spike recorded in hippocampal CA1 cells do not involve presynaptic effects on excitatory synaptic transmission. Tokarski K, et al. **Pol J Pharmacol** 1996 Nov-Dec; 48(6):565–73

Endocrine modulation of the neurotoxicity of gp120: implications for AIDS-related dementia complex. Brooke S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19; 94(17):9457–62

Insulin-like growth factor I protects and rescues hippocampal neurons against beta-amyloid- and human amylin-induced toxicity. Doré S, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4772–7

Maintenance of muscimol-induced long-term depression by neurosteroids. Akhondzadeh S, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Feb; 20(2):277–89

Microdialysis-coupled place cell detection in the hippocampus: a new strategy for the search for cognition enhancer drugs. Ludvig N. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Feb; 21(2):249–71 (91 ref.)

Effects of kawain and dihydromethysticin on field potential changes in the hippocampus. Walden J, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 May; 21(4):697–706

Transient elevation of nerve growth factor content in the rat hippocampus and frontal cortex by chronic ethanol treatment. Nakano T, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):157–60

Effect of a thyrotrophin-releasing hormone analogue, RX77368, on AMPA-induced septal-hippocampal lesioned rats in an operant delayed non-matching to position test. Ballard TM, et al. **Psychopharmacology (Berl)** 1996 Oct; 127(3):265–75

Differences in enhancing effects of zolpidem and benzodiazepine drugs on recurrent inhibition in rat hippocampal slices. Higashima M, et al. **Psychopharmacology (Berl)** 1997 Jun;131(4):394–8

Amygdala and hippocampus control dissociable aspects of drug-associated conditioned rewards. Hitchcott PK, et al. **Psychopharmacology (Berl)** 1997 May;131(2):187–95

HFS-induced long-term potentiation and LFS-induced depotentiation in area CA1 of the hippocampus are not good models for learning. Hölscher C, et al. **Psychopharmacology (Berl)** 1997 Mar;130(2):174–82

Effects of haloperidol on sensory processing in the hippocampus during classical eyeblink conditioning. Sears LL, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(3):254–60

Cortical and hippocampal EEG power spectra in animal models of schizophrenia produced with methamphetamine, cocaine, and phencyclidine. Yamamoto J. **Psychopharmacology (Berl)** 1997 Jun;131(4):379–87

Neuroprotection by aspirin and sodium salicylate through blockade of NF-kappaB activation. Grilli M, et al. **Science** 1996 Nov 22;274(5291):1383–5

TGF-beta 1 protects hippocampal neurons against degeneration caused by transient global ischemia. Dose-response relationship and potential neuroprotective mechanisms. Henrich-Noack P, et al. **Stroke** 1996 Sep; 27(9):1609–14; discussion 1615

Selective N-type calcium channel antagonist omega conotoxin MVIIA is neuroprotective against hypoxic neurodegeneration in organotypic hippocampal-slice cultures. Pringle AK, et al. **Stroke** 1996 Nov;27(11):2124–30

Phencyclidine produces changes in NMDA and kainate receptor binding in rat hippocampus over a 48-hour time course. Gao XM, et al. **Synapse** 1996 Aug;23(4):274–9

Amphetamine-induced c-fos mRNA expression is altered in rats with neonatal ventral hippocampal damage. Lillrank SM, et al. **Synapse** 1996 Aug;23(4):292–301

Enhanced synaptophysin immunoreactivity in rat hippocampal culture by 5-HT 1A agonist, S100b, and corticosteroid receptor agonists. Nishi M, et al. **Synapse** 1996 May;23(1):1–9

Androgen modulates N-methyl-D-aspartate-mediated depolarization in CA1 hippocampal pyramidal cells. Pouliot WA, et al. **Synapse** 1996 May;23(1):10–9

Long-lasting decreases of AMPA responses following postsynaptic activity in single hippocampal neurons. Vickery RM, et al. **Synapse** 1997 Jan;25(1):103–6

Depression of early and late monosynaptic inhibitory postsynaptic potentials in hippocampal CA1 neurons following prolonged benzodiazepine administration: role of a reduction in Cl- driving force. Zeng X, et al. **Synapse** 1997 Feb;25(2):125–36

Can megadoses of thiamine prevent ethanol-induced damages of rat hippocampal CA1 pyramidal neurones? Wenisch S, et al. **Z Ernahrungswiss** 1996 Sep;35(3):266–72

[Effect of ulinastatin on delayed neuronal death in the gerbil hippocampus] Abe H, et al. **Masui** 1996 Jan;45(1):38–43 (Eng. Abstr.) **(Jpn)**

[Effects of prostaglandin E1 on transient forebrain ischemia, especially in hippocampal CA 1 regions of the gerbil] Abe H, et al. **Masui** 1996 Oct;45(10):1216–22 (Eng. Abstr.) **(Jpn)**

[Damage to plastic properties of synaptic transmission in the rat hippocampus resulting from prenatal hypoxia, and their normalization by treatment with nootropic dipeptides] Chepkova AN, et al. **Biull Eksp Biol Med** 1995 Dec; 120(12):592–5 **(Rus)**

[Xanthurenic acid inhibits the activity of an experimental epileptogenic focus in the rat hippocampus] Mikhailov IB, et al. **Eksp Klin Farmakol** 1997 Mar-Apr;60(2):7–9 (Eng. Abstr.) **(Rus)**

[Effect of dilantin on the inhibition of neocortical and hippocampal neurons during the interaction of an alien stimulus and the dominant state of a defensive reflex] Shul'gina GI, et al. **Fiziol Cheloveka** 1997 Jul-Aug; 23(4):46–51 **(Rus)**

[Ribonuclease improves the function of hippocampal slices in the postischemic period] Kudriashov IE, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Jan-Feb; 47(1):136–46 (Eng. Abstr.) **(Rus)**

EMBRYOLOGY

Embryology of the human fetal hippocampus: MR imaging, anatomy, and histology. Kier EL, et al. **AJNR Am J Neuroradiol** 1997 Mar;18(3):525–32

Heme oxygenase activity and acute and chronic ethanol exposure in the hippocampus, frontal cerebral cortex, and cerebellum of the near-term fetal guinea pig. Cook MN, et al. **Alcohol** 1997 Mar-Apr;14(2):117–24

Developmental changes of glutamate receptors in the rat cerebral cortex and hippocampus. Arai Y, et al. **Anat Embryol (Berl)** 1997 Jan;195(1):65–70

Retrosplenial/presubicular continuum in primates: a developmental approach in fetal macaques using neurotensin and parvalbumin as markers. Berger B, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):207–24

Early molecular specification in the hippocampal rudiment: isolation of genes expressed in a region-specific manner in the embryonic telencephalon. Hatanaka Y. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):65–73

Developmental features of 4-aminopyridine induced epileptogenesis. Psarropoulou C, et al. **Brain Res Dev Brain Res** 1996 Jun 14;94(1):52–9

Developmental expression of the CD15 epitope in the hippocampus of the mouse. Ashwell KW, et al. **Cell Tissue Res** 1997 Jul;289(1):17–23

Sex differentiation of rat hippocampal GABAergic neurons. Reisert I, et al. **Eur J Neurosci** 1996 Aug;8(8):1718–24

Effects of prenatal protein malnutrition on hippocampal CA1 pyramidal cells in rats of four age groups. Cintra L, et al. **Hippocampus** 1997;7(2):192–203

Retarded formation of the hippocampal commissure in embryos from mouse strains lacking a corpus callosum. Livy DJ, et al. **Hippocampus** 1997;7(1):2–14

Extensive reinnervation of the hippocampus by embryonic basal forebrain cholinergic neurons grafted into the septum of neonatal rats with selective cholinergic lesions. Leanza G, et al. **J Comp Neurol** 1996 Sep 23;373(3):355–7

Electrophysiological development of embryonic hippocampal neurons from the rat grown on synthetic thin films. Offenhäusser A, et al. **Neurosci Lett** 1997 Feb 14; 223(1):9–12

Regulation of topographic projection in the brain: Elf-1 in the hippocamposeptal system. Gao PP, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11161–6

Disruption of hippocampal development in vivo by CR-50 mAb against reelin. Nakajima K, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22;94(15):8196–201

ENZYMOLOGY

Age-related changes in the brain transfer of blood-borne horseradish peroxidase in the hippocampus of senescence-accelerated mouse. Ueno M, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):233–40

Effect of chronic maternal ethanol administration on nitric oxide synthase activity in the hippocampus of the mature fetal guinea pig. Kimura KA, et al. **Alcohol Clin Exp Res** 1996 Aug;20(5):948–53

Developmental differences in place-learning performance between C57BL/6 and DBA/2 mice parallel the ontogeny of hippocampal protein kinase C. Paylor R, et al. **Behav Neurosci** 1996 Dec;110(6):1415–25

Dynamic changes of cathepsins B and L expression in the monkey hippocampus after transient ischemia. Kohda Y, et al. **Biochem Biophys Res Commun** 1996 Nov 12; 228(2):616–22

A tyrosine kinase-like molecule is localized in the nuclear membrane of neurons: hippocampal behavior under stress. Kajii Y, et al. **Biol Cell** 1996;88(1–2):45–54

Transient cerebral ischemia decreases calcium/calmodulin-dependent protein kinase II immunoreactivity, but not mRNA levels in the gerbil hippocampus. Babcock AM, et al. **Brain Res** 1995 Dec 24; 705(1–2):307–14

Inhibition by the neurosteroid allopregnanolone of basal and stress-induced acetylcholine release in the brain of freely moving rats. Dazzi L, et al. **Brain Res** 1996 Feb 26; 710(1–2):275–80

Biphasic modulation of GABA release by nitric oxide in the hippocampus of freely moving rats in vivo. Getting SJ, et al. **Brain Res** 1996 Apr 22;717(1–2):196–9

Expression of hsp70 mRNA is induced in the brain of transgenic mice overexpressing human CuZn-superoxide dismutase following transient global cerebral ischemia. Kondo T, et al. **Brain Res** 1996 Oct 21;737(1–2):321–6

Kainic acid increases the expression of the prohormone convertases furin and PC1 in the mouse hippocampus. Meyer A, et al. **Brain Res** 1996 Sep 2;732(1–2):121–32

Sparse distribution of NADPH diaphorase neurons in the hippocampal formation of the inbred mutant strain EL mouse. Nagatomo I, et al. **Brain Res** 1996 Aug 19; 730(1–2):223–6

The dephosphorylation of glial fibrillary acidic protein (GFAP) in the immature rat hippocampus is catalyzed mainly by a type 1 protein phosphatase. Vinadé L, et al. **Brain Res** 1996 Sep 2;732(1–2):195–200

Ontogeny of heme oxygenase activity in the hippocampus, frontal cerebral cortex, and cerebellum of the guinea pig. Cook MN, et al. **Brain Res Dev Brain Res** 1996 Mar 29; 92(1):18–23

Seizure-induced alterations of plasma membrane calcium ATPase isoforms 1, 2 and 3 mRNA and protein in rat hippocampus. Garcia ML, et al. **Brain Res Mol Brain Res** 1997 May;45(2):230–8

Neuronal nitric oxide synthase (nNOS) mRNA expression and NADPH-diaphorase staining in the frontal cortex, visual cortex and hippocampus of control and Alzheimer's disease brains. Norris PJ, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):36–49

mRNA expression of the four isoforms of the human plasma membrane Ca(2+)-ATPase in the human hippocampus. Zacharias DA, et al. **Brain Res Mol Brain Res** 1997 Apr; 45(1):173–6

Genetic demonstration of a role for PKA in the late phase of LTP and in hippocampus-based long-term memory. Abel T, et al. **Cell** 1997 Mar 7;88(5):615–26

'Hot spots' of creatine kinase localization in brain: cerebellum, hippocampus and choroid plexus. Kaldis P, et al. **Dev Neurosci** 1996;18(5–6):542–54 (75 ref.)

Long-term induction of haem oxygenase-1 (HSP-32) in astrocytes and microglia following transient focal brain ischaemia in the rat. Koistinaho J, et al. **Eur J Neurosci** 1996 Nov;8(11):2265–72

In vivo hypoxia-induced neuronal damage with an enhancement of neuronal nitric oxide synthase immunoreactivity in hippocampus. Matsuoka Y, et al. **Exp Neurol** 1997 Jul;146(1):57–66

Dietary choline supplementation in pregnant rats increases hippocampal phospholipase D activity of the offspring. Holler T, et al. **FASEB J** 1996 Dec;10(14):1653–9

Two phosphatidylethanol classes separated by thin layer chromatography are produced by phospholipase D in rat brain hippocampal slices. Sarri E, et al. **FEBS Lett** 1996 Sep 16;393(2–3):303–6

In vivo induction of inducible nitric oxide synthase by microinjection with interferon-gamma and lipopolysaccharide in rat hippocampus. Kitamura Y, et al. **Glia** 1996 Nov;18(3):233–43

Nitric-oxide-guanylyl-cyclase-dependent and -independent components of multiple forms of long-term synaptic depression. Gage AT, et al. **Hippocampus** 1997;7(3):286–95

gamma Isoform-selective changes in PKC immunoreactivity after trace eyeblink conditioning in the rabbit hippocampus. Van der Zee EA, et al. **Hippocampus** 1997;7(3):271–85

Prenatal development of nicotinamide adenine dinucleotide phosphate-diaphorase activity in the human hippocampal formation. Yan XX, et al. **Hippocampus** 1997;7(2):215–31

Activation of p42 mitogen-activated protein kinase in hippocampal long term potentiation. English JD, et al. **J Biol Chem** 1996 Oct 4;271(40):24329–32

Sustained induction of prostaglandin endoperoxide synthase-2 by seizures in hippocampus. Inhibition by a platelet-activating factor antagonist. Marcheselli VL, et al. **J Biol Chem** 1996 Oct 4;271(40):24794–9

Transient activation of cyclic AMP-dependent protein kinase during hippocampal long-term potentiation. Roberson ED, et al. **J Biol Chem** 1996 Nov 29;271(48):30436–41

Effects of the 3',5'-phosphodiesterase inhibitors isobutylmethylxanthine and zaprinast on NO-mediated cGMP accumulation in the hippocampus slice preparation: an immunocytochemical study. de Vente J, et al. **J Chem Neuroanat** 1996 Jun;10(3–4):241–8

Nitric oxide synthase in rat brain: age comparisons quantitated with NADPH-diaphorase histochemistry. Kuo H, et al. **J Gerontol A Biol Sci Med Sci** 1997 May; 52(3):B146–51

Localization of transglutaminase in hippocampal neurons: implications for Alzheimer's disease. Appelt DM, et al. **J Histochem Cytochem** 1996 Dec;44(12):1421–7

Expression of endothelin-converting enzyme in both neuroblastoma and glial cell lines and its localization in rat hippocampus. Barnes K, et al. **J Neurochem** 1997 Feb; 68(2):570–7

Increased secretion of the amino-terminal fragment of amyloid precursor protein in brains of rats with a constitutive up-regulation of protein kinase C. Caputi A, et al. **J Neurochem** 1997 Jun;68(6):2523–9

Expression, catalytic activity, and inducibility of cytochrome P450 2E1 (CYP2E1) in the rat central nervous system. Tindberg N, et al. **J Neurochem** 1996 Nov;67(5):2066–73

Hippocampal responses to corticosterone and stress, one of which is the 35,000 M(r) protein, glycerol phosphate dehydrogenase. Nicols NR, et al. **J Neuroendocrinol** 1996 Nov;8(11):867–76

Increased expression of IL-1beta converting enzyme in hippocampus after ischemia: selective localization in microglia. Bhat RV, et al. **J Neurosci** 1996 Jul 1; 16(13):4146–54

Visualization of autophosphorylation of Ca2+/calmodulin-dependent protein kinase II in hippocampal slices. Kindler S, et al. **J Neurosci Methods** 1996 Sep;68(1):61–70

Age-dependent decrease in the activity of succinic dehydrogenase in rat CA1 pyramidal cells: a quantitative cytochemical study. Bertoni-Freddari C, et al. **Mech Ageing Dev** 1996 Sep 9;90(1):53–62

Cytochrome oxidase is decreased in piglet hippocampus following hypoxia-ischemia. Anderson A, et al. **Metab Brain Dis** 1996 Mar;12(1):61–8

Na+K+ ATPase activity in the rat hippocampus: a study in the pilocarpine model of epilepsy. Fernandes MJ, et al. **Neurochem Int** 1996 May-Jun;28(5–6):497–500

Differential expression of PKC isoforms in hippocampal neuronal cultures: modifications after basic FGF treatment. Roisin MP, et al. **Neurochem Int** 1997 Mar;30(3):261–70

Demonstration and characterization of hippocampal cholinergic neurostimulating peptide (HCNP) processing enzyme activity in rat hippocampus. Otsuka Y, et al. **Neurochem Res** 1996 Mar;21(3):369–76

Alpha isoform of calcium-calmodulin dependent protein kinase II (CAM II kinase-alpha) restricted to excitatory synapses in the CA1 region of rat hippocampus. Liu X, et al. **Neuroreport** 1997 Apr 14;8(6):1475–9

Structural interactions between NOS-positive neurons and blood vessels in the hippocampus. Schottler F, et al. **Neuroreport** 1996 Mar 22;7(4):966–8

The human immunodeficiency virus type 1 (HIV-1) glycoprotein gp120 reduces the expression of neuronal nitric oxide synthase in the hippocampus but not in the cerebral cortex and medial septal nucleus of rat. Bagetta G, et al. **Neurosci Lett** 1997 Mar 14;224(2):75–8

Amyloid beta-induced neurotoxicity is associated with phospholipase D activation in cultured rat hippocampal cells. Cox DA, et al. **Neurosci Lett** 1997 Jun 20;229(1):37–40

Ca2+/calmodulin-dependent protein kinase II in septally kindled rat brains: changes in protein level, activity and subcellular distribution in hippocampus and cerebral cortex. Yamagata Y, et al. **Neurosci Lett** 1996 Jun 21;211(2):109–12

Dense GABAergic input on somata of parvalbumin-immunoreactive GABAergic neurons in the hippocampus of the mouse. Fukuda T, et al. **Neurosci Res** 1996 Oct;26(2):181–94

Formalin-induced changes in adrenocorticotropic hormone and corticosterone plasma levels and hippocampal choline acetyltransferase activity in male and female rats. Aloisi AM, et al. **Neuroscience** 1996 Oct;74(4):1019–24

Localization of neuronal and endothelial nitric oxide synthase isoforms in human hippocampus. Doyle CA, et al. **Neuroscience** 1997 Jan;76(2):387–95

Differential expression of NADPH-diaphorase between electrophysiologically-defined classes of pyramidal neurons in rat ventral subiculum, in vitro. Greene JR, et al. **Neuroscience** 1997 Sep;80(1):95–104

Effect of hippocampal sympathetic ingrowth and cholinergic denervation on hippocampal phospholipase C activity and G-protein function. Kolasa K, et al. **Neuroscience** 1997 Mar;77(1):111–20

Activation of serotonergic and noradrenergic neurotransmission in the rat hippocampus after peripheral administration of bacterial endotoxin: involvement of the cyclo-oxygenase pathway. Linthorst AC, et al. **Neuroscience** 1996 Jun;72(4):989–97

Immunocytochemical localization of cysteine sulfinate decarboxylase in astrocytes in the cerebellum and hippocampus: a quantitative double immunofluorescence study with glial fibrillary acidic protein and S-100 protein. Reymond I, et al. **Neuroscience** 1996 Nov;75(2):619–33

Cu, Zn-superoxide dismutase reaction in neonatal pontosubicular neuron necrosis. Ozawa H, et al. **Pediatr Neurol** 1997 Feb;16(2):126–30

[Effect of electric skin stimulation on the level of succinate dehydrogenase activation and changes in the parameters of glutamatergic synaptic transmission in response ro sensory stimulation] Kudriashova IV, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):404–7 **(Rus)**

GROWTH & DEVELOPMENT

Acute and chronic effects of hypoxia on the developing hippocampus. Owens J Jr, et al. **Ann Neurol** 1997 Feb; 41(2):187–99

Development of food-storing and the hippocampus in juvenile marsh tits (Parus palustris). Clayton NS. **Behav Brain Res** 1996 Jan;74(1–2):153–9

Developmental differences in place-learning performance between C57BL/6 and DBA/2 mice parallel the ontogeny of hippocampal protein kinase C. Paylor R, et al. **Behav Neurosci** 1996 Dec;110(6):1415–25

Effect of prenatal protein deprivation on postnatal granule cell generation in the hippocampal dentate gyrus. Debassio WA, et al. **Brain Res Bull** 1996;41(6):379–83

Developmental changes in depolarization-mediated AMPA receptor modifications and potassium-induced long-term potentiation. Chabot C, et al. **Brain Res Dev Brain Res** 1996 May 31;93(1–2):70–5

Developmental profile of NGF immunoreactivity in the rat brain: a possible role of NGF in the establishment of cholinergic terminal fields in the hippocampus and cortex. Conner JM, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1–2):67–79

Carbon monoxide formation in the guinea pig hippocampus: ontogeny and effect of in vitro ethanol exposure. Cook MN, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1–2):283–6

The kinetic parameters of sodium currents in maturing acutely isolated rat hippocampal CA1 neurones. Costa PF. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):29–40

Nicotinic and muscarinic cholinergic receptor binding in the human hippocampal formation during development and aging. Court JA, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):93–105

Postnatal development of synaptic plasticity in the CA3 hippocampal region of control and lead-exposed Wistar rats. Gutowski M, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):82–90

Long-term effects of neonatal maternal deprivation and ACTH on hippocampal mineralocorticoid and glucocorticoid receptors. Sutanto W, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):156–63

Hypoxia-induced hyperexcitability in vivo and in vitro in the immature hippocampus. Jensen FE, et al. **Epilepsy Res** 1996 Dec;26(1):131–40 (72 ref.)

The dendritic trees of neurons from the hippocampal formation of protein-deprived adult rats. A quantitative Golgi study. Andrade JP, et al. **Exp Brain Res** 1996 Jun; 109(3):419–33

Postnatal development of zinc-containing cells and neuropil in the hippocampal region of the mouse. Slomianka L, et al. **Hippocampus** 1997;7(3):321–40

Directional neurite outgrowth and axonal differentiation of embryonic hippocampal neurons are promoted by a neurite outgrowth domain of the B2-chain of laminin. Matsuzawa M, et al. **Int J Dev Neurosci** 1996 Jun;14(3):283–95

Enhanced GABA release in cell-damaging conditions in the adult and developing mouse hippocampus. Saransaari P, et al. **Int J Dev Neurosci** 1997 Apr;15(2):163–74

Development of microglia in the prenatal rat hippocampus. Dalmau I, et al. **J Comp Neurol** 1997 Jan 6;377(1):70–84

Axonal remodeling during postnatal maturation of CA3 hippocampal pyramidal neurons. Gomez-Di Cesare CM, et al. **J Comp Neurol** 1997 Jul 28;384(2):165–80

Distribution of brain-derived neurotrophic factor in rats and its changes with development in the brain. Katoh-Semba R, et al. **J Neurochem** 1997 Jul;69(1):34–42

Effects of prenatal cocaine exposure on the developing hippocampus: intrinsic and synaptic physiology. Baraban SC, et al. **J Neurophysiol** 1997 Jan;77(1):126–36

NCAM is essential for axonal growth and fasciculation in the hippocampus. Cremer H, et al. **Mol Cell Neurosci** 1997; 8(5):323–35

Effect of aging on the basal expression of c-Fos, c-Jun, and Egr-1 proteins in the hippocampus. Desjardins S, et al. **Neurobiol Aging** 1997 Jan-Feb;18(1):37–44

Ontogenetic and pharmacological studies on metabotropic glutamate receptors coupled to phospholipase D activation. Klein J, et al. **Neuropharmacology** 1997 Mar;36(3):305–11

Postsynaptic induction of mossy fibre long term depression in developing rat hippocampus. Györi J, et al. **Neuroreport** 1996 Jul 8;7(10):1660–4

Age-dependent differences in sensitivity to aconitine of rat hippocampal slices. Ameri A. **Neurosci Lett** 1996 Sep 20; 216(1):13–6

Analytical characterization of spontaneous activity evolution during hippocampal development in the rabbit. Menendez de la Prida L, et al. **Neurosci Lett** 1996 Nov 8;218(3):185–7

Effect of increased maternal corticosterone during lactation on hippocampal corticosteroid receptors, stress response and learning in offspring in the early stages of life. Casolini P, et al. **Neuroscience** 1997 Aug;79(4):1005–12

Cytoskeletal maturation in cultured hippocampal slices. Hartel R, et al. **Neuroscience** 1997 May;78(1):1–5

Developmental regulation and cell-specific expression of N-methyl-D-aspartate receptor splice variants in rat hippocampus. Paupard MC, et al. **Neuroscience** 1997 Jul; 79(2):399–409

Development of long-distance efferent projections from fetal hippocampal grafts depends upon pathway specificity and graft location in kainate-lesioned adult hippocampus. Shetty AK, et al. **Neuroscience** 1997 Feb;76(4):1205–19

Sex and intrauterine position influence the size of the gerbil hippocampus. Sherry DF, et al. **Physiol Behav** 1996 Dec; 60(6):1491–4

Development of fetal hippocampal grafts in intact and lesioned hippocampus. Shetty AK, et al. **Prog Neurobiol** 1996 Dec;50(5–6):597–653 (355 ref.)

IMMUNOLOGY

Distinct distribution of apolipoprotein E and beta-amyloid immunoreactivity in the hippocampus of Parkinson dementia complex of Guam. Schwab C, et al. **Acta Neuropathol (Berl)** 1996 Oct;92(4):378–85

Subchronic glucocorticoid pretreatment reversibly attenuates IL-beta induced fever in rats; IL-6 mRNA is elevated while IL-1 alpha and IL-1 beta mRNAs are suppressed, in the CNS. Chai Z, et al. **Cytokine** 1996 Mar;8(3):227–37

Adrenocorticotropic hormone immunoreactivity in the hippocampal formation of temporal lobe epilepsy patients. Lynd-Balta E, et al. **Epilepsia** 1996 Nov;37(11):1081–7

Delayed-type hypersensitivity lesions in the central nervous system are prevented by inhibitors of matrix metalloproteinases. Matyszak MK, et al. **J Neuroimmunol** 1996 Sep;69(1–2):141–9

Immunocytochemical detection of anti-hippocampal antibodies in Alzheimer's disease and normal cerebrospinal fluid. Loeffler DA, et al. **Neurochem Res** 1997 Feb; 22(2):209–14

INJURIES

The case for a relationship between human memory, hippocampus and corpus callosum. Zaidel DW. **Biol Res** 1995;28(1):51–7 (35 ref.)

Hippocampally dependent and independent chronic spatial navigational deficits following parasagittal fluid percussion brain injury in the rat. Bramlett HM, et al. **Brain Res** 1997 Jul 11;762(1–2):195–202

Loss of hippocampal CA1 neurons and learning impairment in subicular lesioned rats. Govindaiah, et al. **Brain Res** 1997 Jan 16;745(1–2):121–6

Traumatic neuroprotection with inhibitors of nitric oxide and ADP-ribosylation. Wallis RA, et al. **Brain Res** 1996 Feb 26;710(1–2):169–77

Behavioral changes in rats with early ventral hippocampal damage vary with age at damage. Wood GK, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):17–25

Neonatal insult to the hippocampal region and schizophrenia: a review and a putative animal model. Beauregard M, et al. **Can J Psychiatry** 1996 Sep;41(7):446–56 (145 ref.)

Human memory: the hippocampus is the key. Parkin AJ. **Curr Biol** 1996 Dec 1;6(12):1583–5 (7 ref.)

Three cases of enduring memory impairment after bilateral damage limited to the hippocampal formation. Rempel-Clower NL, et al. **J Neurosci** 1996 Aug 15; 16(16):5233–55

Identification and topography of neuronal cell populations expressing TNF alpha and IL-1 alpha in response to hippocampal lesion. Tchélingérian JL, et al. **J Neurosci Res** 1996 Jan 1;43(1):99–106

Theories of organic amnesia [editorial] Mayes A, et al. **Memory** 1997 Jan-Mar;5(1–2):1–2

Lesion-induced axonal sprouting and hyperexcitability in the hippocampus in vitro: implications for the genesis of posttraumatic epilepsy [see comments] McKinney RA, et al. **Nat Med** 1997 Sep;3(9):990–6. Comment in: Nat Med 1997 Sep;3(9):957–8.

Elevation of neuronal expression of NAIP reduces ischemic damage in the rat hippocampus. Xu DG, et al. **Nat Med** 1997 Sep;3(9):997–1004

Focal brain injury increases activin betaA mRNA expression in hippocampal neurons. Lai M, et al. **Neuroreport** 1997 Aug 18;8(12):2691–4

Widespread neuronal expression of c-Fos throughout the brain and local expression in glia following a hippocampal injury. Tchélingérian JL, et al. **Neurosci Lett** 1997 May 2;226(3):175–8

METABOLISM

Possible glial contribution of rat hippocampus lactate as assessed with microdialysis and stress. Elekes O, et al. **Acta Neurochir Suppl (Wien)** 1996;67:1–5

Altered distribution of the alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate receptor subunit GluR2(4) and the N-methyl-D-aspartate receptor subunit NMDAR1 in the hippocampus of patients with temporal lobe epilepsy. Blümcke I, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):576–87

Comparative study of ubiquitin immunoreactivity of hippocampal granular cells in amyotrophic lateral sclerosis with dementia, Guamanian amyotrophic lateral sclerosis and Guamanian parkinsonism-dementia complex. Ikemoto A, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):265–70

Expression of cell division markers in the hippocampus in Alzheimer's disease and other neurodegenerative conditions. Nagy Z, et al. **Acta Neuropathol (Berl)** 1997 Mar;93(3):294–300

Taurine is a substrate of the anion exchanger transport systems. del Río RM, et al. **Adv Exp Med Biol** 1996; 403:401–7

Regulation of quinolinic acid in the normal rat brain by kynurenine pathway precursors. Luthman J, et al. **Adv Exp Med Biol** 1996;398:229–39

Taurine and neural cell damage. Transport of taurine in adult and developing mice. Saransaari P, et al. **Adv Exp Med Biol** 1996;403:481–90

Interaction of gamma-L-glutamyltaurine with kainate-induced cyclic AMP formation in the rat hippocampus. Varga V, et al. **Adv Exp Med Biol** 1996; 403:473–9

Calcium handling by hippocampal neurons under physiologic and pathologic conditions. Erecinska M, et al. **Adv Neurol** 1996;71:119–36 (176 ref.)

Ischemic tolerance. Kirino T, et al. **Adv Neurol** 1996; 71:505–11

Characterization of the rat Na+/H+ exchanger isoform NHE4 and localization in rat hippocampus. Bookstein C, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1629–38

Zinc-containing neurons are distinct from GABAergic neurons in the telencephalon of the rat. Slomianka L, et al. **Anat Embryol (Berl)** 1997 Feb;195(2):165–74

Spatial diversity of chloride transporters in hippocampal neurons. Hara M, et al. **Ann N Y Acad Sci** 1993 Dec 20; 707:421–3

Reduced hippocampal volume and n-acetyl aspartate in posttraumatic stress disorder. Schuff N, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:516–20

Hippocampal N-acetylaspartate in neocortical epilepsy and mesial temporal lobe epilepsy. Vermathen P, et al. **Ann Neurol** 1997 Aug;42(2):194–9

Changes in transition metal contents in rat brain regions after in vivo quinolinate intrastriatal administration. Pérez P, et al. **Arch Med Res** 1996 Winter;27(4):449–52

Hippocampal 5-HT1A receptor binding site densities, 5-HT1A receptor messenger ribonucleic acid abundance and serotonin levels parallel the activity of the hypothalamo-pituitary-adrenal axis in rats. Burnet PW, et al. **Behav Brain Res** 1996;73(1–2):365–68

Increased 5-HT1A receptor immunoreactivity in the rat hippocampus following 5,7-dihydroxytryptamine lesions in the cingulum bundle and fimbria-fornix. Patel TD, et al. **Behav Brain Res** 1996;73(1–2):319–23

A specific association of ERK3 with B-Raf in rat hippocampus. Kim SH, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):577–81

Cloning of a cDNA encoding a novel sugar transporter expressed in the neonatal mouse hippocampus. Matsuo N, et al. **Biochem Biophys Res Commun** 1997 Sep 8; 238(1):126–9

BDNF gene can Be activated by Ca2+ signals without involvement of de novo AP-1 synthesis. Sano K, et al. **Biochem Biophys Res Commun** 1996 Dec 24;229(3):788–93

Cloning of human and mouse cDNAs encoding novel zinc finger proteins expressed in cerebellum and hippocampus. Yasojima K, et al. **Biochem Biophys Res Commun** 1997 Feb 13;231(2):481–7

Differential regulation of expression of rat hippocampal muscarinic receptor subtypes following fimbria-fornix lesion. Zang Z, et al. **Biochem Pharmacol** 1997 May 9; 53(9):1379–82

Docosahexaenoic acid causes accumulation of free arachidonic acid in rat pineal gland and hippocampus to form hepoxilins from both substrates. Reynaud D, et al. **Biochim Biophys Acta** 1997 Jun 23;1346(3):305–16

Inhibition by ATP of calcium oscillations in rat cultured hippocampal neurones. Koizumi S, et al. **Br J Pharmacol** 1997 Sep;122(1):51–8

Differentiation of sigma ligand-activated receptor subtypes that modulate NMDA-evoked [3H]-noradrenaline release in rat hippocampal slices. Monnet FP, et al. **Br J Pharmacol** 1996 Sep;119(1):65–72

Pharmacological characterization of metabotropic glutamate receptors coupled to phospholipase D in the rat hippocampus. Pellegrini-Giampietro DE, et al. **Br J Pharmacol** 1996 Jun;118(4):1035–43

Cerebral benzodiazepine receptors in hippocampal sclerosis. An objective in vivo analysis. Koepp MJ, et al. **Brain** 1996 Oct;119 (Pt 5):1677–87

Application of silicon microphysiometry to tissue slices: detection of metabolic correlates of selective vulnerability. Ajilore OA, et al. **Brain Res** 1997 Mar 28;752(1–2):99–106

Comparison of effects induced by toxic applications of kainate and glutamate by glucose deprivation on area CA1 of rat hippocampal slices. Alici K, et al. **Brain Res** 1996 Oct 28;738(1):109–20

Effects of novelty, pain and stress on hippocampal extracellular acetylcholine levels in male rats. Aloisi AM, et al. **Brain Res** 1997 Feb 14;748(1–2):219–26

Activation of metabotropic glutamate receptors increases endogenous protein kinase C substrate phosphorylation in adult hippocampal slices. Angenstein F, et al. **Brain Res** 1997 Jan 16;745(1–2):46–54

Response to repetitive stimulation of AMPA receptors in patches excised from fields CA1 and CA3 of the hippocampus. Arai A, et al. **Brain Res** 1996 Apr 15; 716(1–2):202–6

Neurotoxicity in organotypic hippocampal slices mediated by adenosine analogues and nitric oxide. Barth A, et al. **Brain Res** 1997 Jul 11;762(1–2):79–88

Uncoupling of GABA(A) and benzodiazepine receptor binding activity in the hippocampal formation of schizophrenic brain. Benes FM, et al. **Brain Res** 1997 Apr 25;755(1):121–9

Immunohistochemical distribution of metabotropic glutamate receptor subtypes mGluR1b, mGluR2/3, mGluR4a and mGluR5 in human hippocampus. Blümcke I, et al. **Brain Res** 1996 Oct 14;736(1–2):217–26

Autofluorescence as a confound in the determination of calcium levels in hippocampal slices using fura-2AM dye. Brooke SM, et al. **Brain Res** 1996 Jan 15;706(2):283–8

Evidence to suggest that cytosolic acetylcholine in rat hippocampal nerve terminals is not directly transferred into synaptic vesicles for release. Carroll PT. **Brain Res** 1996 Jun 24;725(1):3–10

Evidence to suggest that extracellular acetate is accumulated by rat hippocampal cholinergic nerve terminals for acetylcholine formation and release. Carroll PT. **Brain Res** 1997 Apr 4;753(1):47–55

Downregulation of muscarinic- and 5-HT1B-mediated modulation of [3H]acetylcholine release in hippocampal slices of rats with fimbria-fornix lesions and intrahippocampal grafts of septal origin. Cassel JC, et al. **Brain Res** 1995 Dec 18;704(2):153–66

Increased protein kinase C isoform gamma in the hippocampus of pentylenetetrazol-induced chemoshocked mouse. Chen CC, et al. **Brain Res** 1996 Jun 24;725(1):75–80

ATP receptor activation potentiates a voltage-dependent Ca channel in hippocampal neurons. Dave S, et al. **Brain Res** 1996 Apr 9;715(1–2):208–16

Sensitivity of postsynaptic GABAB receptors on hippocampal CA1 and CA3 pyramidal neurons to ethanol. Frye GD, et al. **Brain Res** 1996 Oct 7;735(2):239–48

Demonstration of the facilitatory role of 8-OH-DPAT on cholinergic transmission in the rat hippocampus using in vivo microdialysis. Fujii T, et al. **Brain Res** 1997 Jul 4; 761(2):244–9

Quantitative analysis of GAD65 and GAD67 immunoreactivities in somata of GABAergic neurons in the mouse hippocampus proper (CA1 and CA3 regions), with special reference to parvalbumin-containing neurons. Fukuda T, et al. **Brain Res** 1997 Aug 1;764(1–2):237–43

Effect of isolation-rearing on noradrenaline release in rat hypothalamus and hippocampus in vitro. Fulford AJ, et al. **Brain Res** 1997 Feb 14;748(1–2):93–9

Hypoxia triggers neuroprotective alterations in hippocampal gene expression via a heme-containing sensor. Gage AT, et al. **Brain Res** 1996 May 6;719(1–2):172–8

Effects of estrogen on potassium-stimulated acetylcholine release in the hippocampus and overlying cortex of adult rats. Gibbs RB, et al. **Brain Res** 1997 Feb 21;749(1):143–6

Physical exercise induces FGF-2 and its mRNA in the hippocampus. Gómez-Pinilla F, et al. **Brain Res** 1997 Aug 1;764(1–2):1–8

In vivo visualization of hippocampal cells and dynamics of Ca2+ concentration during anoxia: feasibility of a fiber-optic plate microscope system for in vivo experiments. Hirano M, et al. **Brain Res** 1996 Sep 2; 732(1–2):61–8

Cystatin C and apolipoprotein E immunoreactivities in CA1 neurons in ischemic gerbil hippocampus. Ishimaru H, et al. **Brain Res** 1996 Feb 19;709(2):155–62

Graded expression of immunomolecules on activated microglia in the hippocampus following ischemia in a rat model of ischemic tolerance. Kato H, et al. **Brain Res** 1995 Oct 2;694(1–2):85–93

A role for adenosine A2 receptors in the induction of long-term potentiation in the CA1 region of rat hippocampus. Kessey K, et al. **Brain Res** 1997 May 9; 756(1–2):184–90

Characterization of nicotinic receptors in immortalized hippocampal neurons. Komourian J, et al. **Brain Res** 1996 Apr 29;718(1–2):37–45

Prolonged subordination stress increases Calbindin-D28k immunoreactivity in the rat hippocampal CA1 area. Krugers HJ, et al. **Brain Res** 1996 Aug 12;729(2):289–93

Temporal profile of nerve growth factor-like immunoreactivity after transient focal cerebral ischemia in rats. Lee TH, et al. **Brain Res** 1996 Mar 25; 713(1–2):199–210

Temporal profiles of the in vitro phosphorylation rate and immunocontent of glial fibrillary acidic protein (GFAP) after kainic acid-induced lesions in area CA1 of the rat hippocampus: demonstration of a novel phosphoprotein associated with gliosis. Lenz G, et al. **Brain Res** 1997 Aug 1;764(1–2):188–96

The amiloride-sensitive Na+/H+ exchange antiporter and control of intracellular pH in hippocampal brain slices. Lin CW, et al. **Brain Res** 1996 Aug 26;731(1–2):108–13

c-jun mRNA expression in the hippocampal formation induced by restraint stress. Lino de Oliveira C, et al. **Brain Res** 1997 Apr 11;753(2):202–8

Differential and persistent expression patterns of CNS gene transfer by an adeno-associated virus (AAV) vector. McCown TJ, et al. **Brain Res** 1996 Mar 25;713(1–2):99–107

Bax expression in mammalian neurons undergoing apoptosis, and in Alzheimer's disease hippocampus. MacGibbon GA, et al. **Brain Res** 1997 Mar 7;750(1–2):223–34

Basic FGF attenuates amyloid beta-peptide-induced oxidative stress, mitochondrial dysfunction, and impairment of Na+/K+-ATPase activity in hippocampal neurons. Mark RJ, et al. **Brain Res** 1997 May 9;756(1–2):205–14

5-HT1A receptor expression is modulated by corticosteroid receptor agonists in primary rat hippocampal culture. Nishi M, et al. **Brain Res** 1996 May 25;722(1–2):190–4

Corticosterone alters G protein alpha-subunit levels in the rat hippocampus. Okuhara DY, et al. **Brain Res** 1997 Jan 16;745(1–2):144–51

Enhanced acetylcholine release in the hippocampus and cortex during acquisition of an operant behavior. Orsetti M, et al. **Brain Res** 1996 Jun 10;724(1):89–96

Apparent absence of aging and gender effects on serotonin 1A receptors in human neocortex and hippocampus. Palego L, et al. **Brain Res** 1997 May 30;758(1–2):26–32

The inhibitory effects of beta-amyloid on glutamate and glucose uptakes by cultured astrocytes. Parpura-Gill A, et al. **Brain Res** 1997 Apr 18;754(1–2):65–71

Temporally changing patterns of hippocampal cerebral glucose utilization following sensorimotor cortical contusion in rats. Queen SA, et al. **Brain Res** 1996 Jun 17;724(2):246–50

Time course of protein changes following in vitro ischemia in the rat hippocampal slice. Raley-Susman KM, et al. **Brain Res** 1995 Oct 2;694(1–2):94–102

Enhancement of hippocampal acetylcholine release by the neurosteroid dehydroepiandrosterone sulfate: an in vivo microdialysis study. Rhodes ME, et al. **Brain Res** 1996 Sep 16;733(2):284–6

NADH in the pyramidal cell layer of hippocampal regions CA1 and CA3 upon selective inhibition and uncoupling of oxidative phosphorylation. Riepe MW, et al.

Brain Res 1996 Feb 26;710(1–2):21–7

Aging impairs regulation of intracellular pH in rat hippocampal slices. Roberts EL Jr, et al. **Brain Res** 1996 Oct 7;735(2):339–42

Galanin microinjected into the medial septum inhibits scopolamine–induced acetylcholine overflow in the rat ventral hippocampus. Robinson JK, et al. **Brain Res** 1996 Feb 12;709(1):81–7

Reversal of a selective decrease in hippocampal acetylcholine release, but not of the persistence of kindling, after discontinuation of long–term pentylenetetrazol administration in rats. Serra M, et al. **Brain Res** 1997 Mar 14;751(1):175–9

Identification of calcium channels involved in neuronal injury in rat hippocampal slices subjected to oxygen and glucose deprivation. Small DL, et al. **Brain Res** 1997 Apr 11; 753(2):209–18

Amygdala–kindled seizures increase the expression of corticotropin–releasing factor (CRF) and CRF–binding protein in GABAergic interneurons of the dentate hilus. Smith MA, et al. **Brain Res** 1997 Jan 16;745(1–2):248–56

Immobilization stress–induced increase of hippocampal acetylcholine and of plasma epinephrine, norepinephrine and glucose in rats. Tajima T, et al. **Brain Res** 1996 May 13;720(1–2):155–8

GABAA alpha 2 mRNA levels are decreased following induction of spontaneous epileptiform discharges in hippocampal–entorhinal cortical slices. Vick RS, et al. **Brain Res** 1996 May 20;721(1–2):111–9

Slow dendritic transport of dissociated mouse hippocampal neurons exposed to aluminum. Wakayama I, et al. **Brain Res** 1997 Feb 14;748(1–2):237–40

Brief potassium depolarization decreases levels of neurofilament proteins in CNS culture. Whitson JS, et al. **Brain Res** 1995 Oct 2;694(1–2):213–22

Regionally–selective down–regulation of NPY receptor subtypes in the obese Zucker rat. Relationship to the Y5 'feeding' receptor. Widdowson PS. **Brain Res** 1997 May 30;758(1–2):17–25

Relations between acetylcholine release and electrophysiological characteristics of theta rhythm: a microdialysis study in the urethane–anesthetized rat hippocampus. Monmaur P, et al. **Brain Res Bull** 1997; 42(2):141–6

Modulation of hippocampal norepinephrine release by cholinergic agonists is altered by AF64A lesion. Potter PE, et al. **Brain Res Bull** 1997;42(2):153–60

Effects of M2 antagonists on in vivo hippocampal acetylcholine levels. Stillman MJ, et al. **Brain Res Bull** 1996;41(4):221–6

Delayed decrease of calbindin immunoreactivity in the granule cell–mossy fibers after kainic acid–induced seizures. Yang Q, et al. **Brain Res Bull** 1997;43(6):551–9

Expression and polarization of VGF in developing hippocampal neurons. Benson DL, et al. **Brain Res Dev Brain Res** 1996 Oct 23;96(1–2):219–28

No effect of glutamate on metabolic disturbances in hippocampal slices of mature fetal guinea pigs after transient in vitro ischemia. Berger R, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):49–56

Ontogenetic differences in energy metabolism and inhibition of protein synthesis in hippocampal slices during in vitro ischemia and 24 h of recovery. Berger R, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):281–91

Calcium–sensing receptor in the rat hippocampus: a developmental study. Chattopadhyay N, et al. **Brain Res Dev Brain Res** 1997 May 20;100(1):13–21

Sodium–dependent proline and glutamate uptake by hippocampal synaptosomes during postnatal development. Cohen SM, et al. **Brain Res Dev Brain Res** 1997 Jun 18; 100(2):230–3

Carbon monoxide formation in the guinea pig hippocampus: ontogeny and effect of in vitro ethanol exposure. Cook MN, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1–2):283–6

The kinetic parameters of sodium currents in maturing acutely isolated rat hippocampal CA1 neurones. Costa PF. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):29–40

Nicotinic and muscarinic cholinergic receptor binding in the human hippocampal formation during development and aging. Court JA, et al. **Brain Res Dev Brain Res** 1997 Jul 18;101(1–2):93–105

Impaired cyclic AMP production in the hippocampus of a Down syndrome murine model. Dierssen M, et al. **Brain Res Dev Brain Res** 1996 Aug 20;95(1):122–4

During afterdischarges in the young rat in vivo extracellular potassium is not elevated above adult levels. Stringer JL, et al. **Brain Res Dev Brain Res** 1996 Jan 22;91(1):136–9

Long–term effects of neonatal maternal deprivation and ACTH on hippocampal mineralocorticoid and glucocorticoid receptors. Sutanto W, et al. **Brain Res Dev Brain Res** 1996 Apr 30;92(2):156–63

Altered expression of group I metabotropic glutamate receptors in the hippocampus of amygdala–kindled rats. Akbar MT, et al. **Brain Res Mol Brain Res** 1996 Dec 31; 43(1–2):105–16

Induction of apolipoprotein E mRNA in the hippocampus of the gerbil after transient global ischemia. Ali SM, et al. **Brain Res Mol Brain Res** 1996 May;38(1):37–44

Activation of NMDA and muscarinic receptors induces nur–77 mRNA in hippocampal neurons. Dragunow M, et al. **Brain Res Mol Brain Res** 1996 Mar;36(2):349–56

GluR2 glutamate receptor subunit flip and flop isoforms are decreased in the hippocampal formation in schizophrenia: a reverse transcriptase–polymerase chain reaction (RT–PCR) study. Eastwood SL, et al. **Brain Res Mol Brain Res** 1997 Feb;44(1):92–8

Glutamate release correlates with brain–derived neurotrophic factor and trkB mRNA expression in the CA1 region of rat hippocampus. Falkenberg T, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):317–27

Organization, sequence and functional analysis of a mouse BDNF promoter. Hayes VY, et al. **Brain Res Mol Brain Res** 1997 May;45(2):189–98

Moderate lesion of the rat cholinergic septohippocampal pathway increases hippocampal nerve growth factor synthesis: evidence for long–term compensatory changes? Hellweg R, et al. **Brain Res Mol Brain Res** 1997 Apr; 45(1):177–81

Global ischemia induces apoptosis–associated genes in hippocampus. Honkaniemi J, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):79–88

Differential neuronal and astrocytic expression of transforming growth factor beta isoforms in rat hippocampus following transient forebrain ischemia. Knuckey NW, et al. **Brain Res Mol Brain Res** 1996 Aug; 40(1):1–14

Regulation of alternative splicing of NMDAR1 in the kindling model. Kraus JE, et al. **Brain Res Mol Brain Res** 1996 Sep 5;41(1–2):97–104

Distinctions between hippocampus of mouse and rat: protein F1/GAP–43 gene expression, promoter activity, and spatial memory. McNamara RK, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):177–87

Gene expression of the transcription factor NF–kappa B in hippocampus: regulation by synaptic activity. Meberg PJ, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):179–90

Regulation of hippocampal 5–HT1A receptor mRNA and binding in transgenic mice with a targeted disruption of the glucocorticoid receptor. Meijer OC, et al. **Brain Res Mol Brain Res** 1997 Jun;46(1–2):290–6

Transcription factors in primary glial cultures: changes with neuronal interactions. Pennypacker KR, et al. **Brain Res Mol Brain Res** 1996 Apr;37(1–2):224–30

Increased levels of statin, a marker of cell cycle arrest, in response to hippocampal neuronal injury. Poirier J, et al. **Brain Res Mol Brain Res** 1995 Dec 1;34(1):57–64

Changes in hippocampal gene expression associated with the induction of long–term potentiation. Roberts LA, et al. **Brain Res Mol Brain Res** 1996 Nov;42(1):123–7

A comparison of changes in nucleotide–protein interactions in the striatal, hippocampus and paramedian cortex after cerebral ischemia and reperfusion: correlations to regional vulnerability. Sankaran B, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):237–50

AMPA receptor subunits expressed by single astrocytes in the juvenile mouse hippocampus. Seifert G, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):286–94

Hippocampal glucocorticoid receptor mRNA is up–regulated by acute and down–regulated by chronic amphetamine treatment. Shilling PD, et al. **Brain Res Mol Brain Res** 1996 May;38(1):156–60

Isolation of the gene encoding lamp–1, a lysosomal membrane protein, by differential screening in an animal model of status epilepticus. Sun N, et al. **Brain Res Mol Brain Res** 1997 May;45(2):353–5

Rat nurr1 is prominently expressed in perirhinal cortex, and differentially induced in the hippocampal dentate gyrus by electroconvulsive vs. kindled seizures. Xing G, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1–2):251–61

Impact of adrenalectomy on 5–HT6 and 5–HT7 receptor gene expression in the rat hippocampus. Yau JL, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):182–6

Decreased NGFI–A gene expression in the hippocampus of cognitively impaired aged rats. Yau JL, et al. **Brain Res Mol Brain Res** 1996 Dec;42(2):354–7

Neuronal coexistence of trkB and glutamic acid decarboxylase67 mRNAs in rat hippocampus. Zachrisson O, et al. **Brain Res Mol Brain Res** 1996 Feb;36(1):169–73

Modulation of presynaptic calcium homeostasis by nitric oxide. Martínez–Serrano A, et al. **Cell Calcium** 1996 Sep; 20(3):293–302

Transient expression of GAP–43 within the hippocampus after global brain ischemia in rat. Schmidt–Kastner R, et al. **Cell Tissue Res** 1997 May;288(2):225–38

Hippocampal CA1–region–restricted knockout of NMDAR1 gene disrupts synaptic plasticity, place fields, and spatial learning. Tonegawa S, et al. **Cold Spring Harb Symp Quant Biol** 1996;61:225–38

Synaptic plasticity: the basis of particular types of learning. Goda Y, et al. **Curr Biol** 1996 Apr 1;6(4):375–8 (12 ref.)

Ca2+–dependent regulation in neuronal gene expression. Bito H, et al. **Curr Opin Neurobiol** 1997 Jun;7(3):419–29 (139 ref.)

Expression of EGFR–, p75NGFR–, and PSTAIR (cdc2)–like immunoreactivity by proliferating cells in the adult rat hippocampal formation and forebrain. Okano HJ, et al. **Dev Neurosci** 1996;18(3):199–209

Evidence for increased cellular uptake of glutamate and aspartate in the rat hippocampus during kainic acid seizures. A microdialysis study using the 'indicator diffusion' method. Bruhn T, et al. **Epilepsy Res** 1997 Jan;26(2):363–71

The effects of D–23129, a new experimental anticonvulsant drug, on neurotransmitter amino acids in the rat hippocampus in vitro. Kapetanovic IM, et al. **Epilepsy Res** 1995 Nov;22(3):167–73

Generation of lipid radicals in the hippocampal extracellular space during kainic acid–induced seizures in rats. Ueda Y, et al. **Epilepsy Res** 1997 Jan;26(2):329–33

Functional changes in somatostatin and neuropeptide Y containing neurons in the rat hippocampus in chronic models of limbic seizures. Vezzani A, et al. **Epilepsy Res** 1996 Dec;26(1):267–79

Comparison of seizure related amino acid release in human epileptic hippocampus versus a chronic, kainate rat model of hippocampal epilepsy. Wilson CL, et al. **Epilepsy Res** 1996 Dec;26(1):245–54

Lesion study of the distribution of serotonin 5–HT4 receptors in rat basal ganglia and hippocampus. Compan V, et al. **Eur J Neurosci** 1996 Dec;8(12):2591–8

Increased presynaptic protein kinase C activity and glutamate release in rats with a prenatally induced hippocampal lesion. Di Luca M, et al. **Eur J Neurosci** 1997 Mar; 9(3):472–9

FGF–2 induces nerve growth factor expression in cultured rat hippocampal neurons. Ferhat L, et al. **Eur J Neurosci** 1997 Jun;9(6):1282–9

Non–synaptic release of ATP by electrical stimulation in slices of rat hippocampus, cerebellum and habenula. Hamann M, et al. **Eur J Neurosci** 1996 Jul;8(7):1510–5

Dissociations in hippocampal 5–hydroxytryptamine release in the rat following Pavlovian aversive conditioning to discrete and contextual stimuli. Wilkinson LS, et al. **Eur J Neurosci** 1996 Jul;8(7):1479–87

Transient brain ischaemia provokes Ca2+, PIP2 and calpain responses prior to delayed neuronal death in monkeys. Yamashima T, et al. **Eur J Neurosci** 1996 Sep;8(9):1932–44

Gradation of kainic acid–induced rat limbic seizures and expression of hippocampal heat shock protein–70. Zhang X, et al. **Eur J Neurosci** 1997 Apr;9(4):760–9

Inhibition of [3H] gamma–aminobutyric acid release by kainate receptor activation in rat hippocampal synaptosomes. Cunha RA, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):167–72

Increased hippocampal acetylcholine release during a working memory task. Fadda F, et al. **Eur J Pharmacol** 1996 Jun 27;307(2):R1–2

Alpha 2–adrenoceptor subtypes in the human brain: a pharmacological delineation of [3H]RX–821002 binding to membranes and tissue sections. Grijalba B, et al. **Eur J Pharmacol** 1996 Aug 22;310(1):83–93

Adenosine transport inhibitors enhance high K(+)–evoked taurine release from rat hippocampus. Hada J, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):101–7

Dopamine receptor gene expression in hippocampus is differentially regulated by the NMDA receptor antagonist MK–801. Healy DJ, et al. **Eur J Pharmacol** 1996 Jun 13; 306(1–3):257–64

Effects of and interactions between antagonists for different sites on the NMDA receptor complex on hippocampal and striatal acetylcholine efflux in vivo. Hutson PH, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):45–52

Adenosine activates the K+ channel and enhances cytosolic Ca2+ release via a P2Y purinoceptor in hippocampal neurons. Ikeuchi Y, et al. **Eur J Pharmacol** 1996 May 23; 304(1–3):191–9

Interleukin–6 increases the levels of cyclic GMP and nitrite in rat hippocampal slices. Ma T, et al. **Eur J Pharmacol** 1997 Mar 5;321(3):343–7

Hippocampal and cortical G protein (Gs alpha, G(o) alpha and Gi2 alpha) mRNA expression after electroconvulsive shock or lithium carbonate treatment. McGowan S, et al. **Eur J Pharmacol** 1996 Jun 13;306(1–3):249–55

5–HT1A receptor agonist effects of BMY–14802 on serotonin release in dorsal raphe and hippocampus. Matos FF, et al. **Eur J Pharmacol** 1996 Dec 12;317(1):49–54

Characterisation of muscarinic autoreceptors in the septo–hippocampal system of the rat: a microdialysis study. Moor E, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):155–61

Ageing is associated with changes in glutamate release, protein tyrosine kinase and Ca2+/calmodulin–dependent protein kinase II in rat hippocampus. Mullany P, et al. **Eur J Pharmacol** 1996 Aug 15;309(3):311–5

Adaptation of cortical but not hippocampal NMDA receptors after chronic citalopram treatment. Nowak G, et al. **Eur J Pharmacol** 1996 Jan 4;295(1):75–85

Regulation of [3H]norepinephrine release from guinea pig hippocampus by sigma2 receptors. Weatherspoon JK, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):133–8

Effects of uptake carrier blockers SK & F 89976–A and L–trans–PDC on in vivo release of amino acids in rat hippocampus. Zuiderwijk M, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):275–82

Calcium–dependent, sustained enhancement of excitability during washout of aconitine in rat hippocampal slices. Ameri A, et al. **Exp Brain Res** 1997 May;114(3):518–24

Ischemia changes the coexpression of somatostatin and neuropeptide Y in hippocampal interneurons. Bering R, et al. **Exp Brain Res** 1997 Jul;115(3):423–9

Distinct substance P– and calretinin–containing projections from the supramammillary area to the hippocampus in rats; a species difference between rats and monkeys. Borhegyi Z, et al. **Exp Brain Res** 1997 Jun;115(2):369–74

Time course of changes in lactate and free fatty acids after experimental brain injury and relationship to morphologic damage. Dhillon HS, et al. **Exp Neurol** 1997 Jul;

146(1):240–9
Down-regulation of mGluR5 by antisense deoxynucleotides alters pharmacological responses to applications of ACPD in the rat hippocampus. Dorri F, et al. **Exp Neurol** 1997 Sep;147(1):48–54
Hippocampal connexin 43 expression in human complex partial seizure disorder. Elisevich K, et al. **Exp Neurol** 1997 May;145(1):154–64
A quantitative immunocytochemical study of blood–brain barrier to endogenous albumin in cerebral cortex and hippocampus of senescence-accelerated mice (SAM). Vorbrodt AW, et al. **Folia Histochem Cytobiol** 1995; 33(4):229–37
Increased transcription of the astrocyte gene GFAP during middle-age is attenuated by food restriction: implications for the role of oxidative stress. Morgan TE, et al. **Free Radic Biol Med** 1997;23(3):524–8
Production of hydroxyl radical in the hippocampus after CO hypoxia or hypoxic hypoxia in the rat. Piantadosi CA, et al. **Free Radic Biol Med** 1997;22(4):725–32
Resolution of multiple affinity states of 5-hydroxytryptamine-1A receptors labelled by [3H]-8-hydroxy-2-(di-n-propilamino) tetralin in rat hippocampal membranes. Pesce G, et al. **Gen Pharmacol** 1996 Jun;27(4):723–9
A gene variation of 14–3–3 zeta isoform in rat hippocampus. Murakami K, et al. **Gene** 1996 Nov 14;179(2):245–9
Long-term persistence of defective HSV-1 vectors in the rat brain is demonstrated by reactivation of vector gene expression. Starr PA, et al. **Gene Ther** 1996 Jul;3(7):615–23
Hippocampal loss of tenascin boundaries in Ammon's horn sclerosis. Scheffler B, et al. **Glia** 1997 Jan;19(1):35–46
Adenosine A1 antagonism increases specific synaptic forms of glutamate release during anoxia, revealing a unique source of excitation. Katchman AN, et al. **Hippocampus** 1996;6(3):213–24
Glial fibrillary acidic protein and RNA expression in adult rat hippocampus following low-level lead exposure during development. Stoltenburg-Didinger G, et al. **Histochem Cell Biol** 1996 Jun;105(6):431–42
Glutamate dependent dendritic outgrowth in developing neuronal networks of rat hippocampal cells in vitro. Nuijtinck RR, et al. **Int J Dev Neurosci** 1997 Feb; 15(1):55–60
Enhanced GABA release in cell-damaging conditions in the adult and developing mouse hippocampus. Saransaari P, et al. **Int J Dev Neurosci** 1997 Apr;15(2):163–74
Differential surface expression and phosphorylation of the N-methyl-D-aspartate receptor subunits NR1 and NR2 in cultured hippocampal neurons. Hall RA, et al. **J Biol Chem** 1997 Feb 14;272(7):4135–40
Amyloidogenic processing of human amyloid precursor protein in hippocampal neurons devoid of cathepsin D. Saftig P, et al. **J Biol Chem** 1996 Nov 1;271(44):27241–4
Characterization of endogenous neuropeptide Y in rat hippocampus and its metabolism by nanospray mass spectrometry. Stenfors C, et al. **J Biol Chem** 1997 Feb 28; 272(9):5747–51
Brain myosin V is a synaptic vesicle-associated motor protein: evidence for a Ca2+-dependent interaction with the synaptobrevin-synaptophysin complex. Prekeris R, et al. **J Cell Biol** 1997 Jun 30;137(7):1589–601
NO donors stimulate noradrenaline release from rat hippocampus in a calmodulin-dependent manner in the presence of L-cysteine. Satoh S, et al. **J Cell Physiol** 1996 Oct;169(1):87–96
Organelle motility and metabolism in axons vs dendrites of cultured hippocampal neurons. Overly CC, et al. **J Cell Sci** 1996 May;109 (Pt 5):971–80
Characterization of metabotropic glutamate receptor-mediated nitric oxide production in vivo. Bhardwaj A, et al. **J Cereb Blood Flow Metab** 1997 Feb; 17(2):153–60
Expression of ionotropic glutamate receptor subunits in glial cells of the hippocampal CA1 area following transient forebrain ischemia. Gottlieb M, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):290–300
L-alpha-aminoadipate reduces glutamate release from brain tissue exposed to combined oxygen and glucose deprivation. Haugstad TS, et al. **J Cereb Blood Flow Metab** 1997 May;17(5):567–70
DNA fragmentation and HSP70 protein induction in hippocampus and cortex occurs in separate neurons following permanent middle cerebral artery occlusions. States BA, et al. **J Cereb Blood Flow Metab** 1996 Nov; 16(6):1165–75
Induction of tumor necrosis factor-alpha in the mouse hippocampus following transient forebrain ischemia. Uno H, et al. **J Cereb Blood Flow Metab** 1997 May;17(5):491–9
Cytotoxic fragment of amyloid precursor protein accumulates in hippocampus after global forebrain ischemia. Yokota M, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1219–23
Neurochemical development of the hippocampal region in the fetal rhesus monkey, III: calbindin-D28K, calretinin and parvalbumin with special mention of cajal-retzius cells and the retrosplenial cortex. Berger B, et al. **J Comp Neurol** 1996 Mar 18;366(4):674–99
Selective upregulation of T alpha 1 alpha-tubulin and neuropeptide Y mRNAs after intermittent excitatory stimulation in adult rat hippocampus in vivo. Causing CG, et al. **J Comp Neurol** 1996 Mar 25;367(1):132–46
Neuronal localization of the cyclophilin A protein in the adult rat brain. Göldner FM, et al. **J Comp Neurol** 1996 Aug 19;372(2):283–93
Major histocompatibility complex (MHC) class I gene expression in single neurons of the central nervous system: differential regulation by interferon (IFN)-gamma and tumor necrosis factor (TNF)-alpha. Neumann H, et al. **J Exp Med** 1997 Jan 20;185(2):305–16
Regional metabolic alterations in Alzheimer's disease: an in vitro 1H NMR study of the hippocampus and cerebellum. Mohanakrishnan P, et al. **J Gerontol A Biol Sci Med Sci** 1997 Mar;52(2):B111–7
Hippocampal histamine receptors: possible role on the mechanisms of memory in the rat, II. Alvarez EO, et al. **J Neural Transm** 1996;103(1–2):147–56
Seizure-related changes in the glutamate R2 and R5 receptor genes expression in the rat hippocampal formation. Lasoń W, et al. **J Neural Transm** 1997;104(2–3):125–33
Serotonin (5-HT) release in the dorsal raphé and ventral hippocampus: raphé control of somatodendritic and terminal 5-HT release. Matos FF, et al. **J Neural Transm** 1996;103(1–2):173–90
Changes in the serotonin transporter in the hippocampus of subjects with schizophrenia identified using [3H]paroxetine. Naylor L, et al. **J Neural Transm Gen Sect** 1996; 103(6):749–57
Cerebral oligemic hypoxia and iron toxicity in the mesolimbic system of rats. Heim C, et al. **J Neural Transm Suppl** 1995; 46:165–73
The short-term influence of b-FGF, NGF and Cerebrolysin on the memory impaired after fimbria-fornix lesion. Valouškova V, et al. **J Neural Transm Suppl** 1996;47:280
Amyloid beta toxicity consists of a Ca(2+)-independent early phase and a Ca(2+)-dependent late phase. Abe K, et al. **J Neurochem** 1996 Nov;67(5):2074–8
Potassium chloride pulse enhances mitogen-activated protein kinase activity in rat hippocampal slices. Baron C, et al. **J Neurochem** 1996 Mar;66(3):1005–10
Cytosolic proteolysis of tau by cathepsin D in hippocampus following suppression of cathepsins B and L. Bednarski E, et al. **J Neurochem** 1996 Nov;67(5):1846–55
Long-term expression of Fos-related antigen and transient expression of delta FosB associated with seizures in the rat hippocampus and striatum. Bing G, et al. **J Neurochem** 1997 Jan;68(1):272–9
Nitric oxide disrupts Ca2+ homeostasis in hippocampal neurons. Brorson JR, et al. **J Neurochem** 1997 Jan; 68(1):95–105
Kainate-evoked release of adenosine from the hippocampus of the anaesthetised rat: possible involvement of free radicals. Carswell HV, et al. **J Neurochem** 1997 Jan; 68(1):240–7
Chronic ethanol administration regulates the expression of GABAA receptor alpha 1 and alpha 5 subunits in the ventral tegmental area and hippocampus. Charlton ME, et al. **J Neurochem** 1997 Jan;68(1):121–7
Amino acid composition, immunoreactivity, sequence analysis, and function of bovine hippocampal metallothionein isoforms. Ebadi M, et al. **J Neurochem** 1996 May;66(5):2121–7
Effects of the phosphatase inhibitors calyculin A and okadaic acid on acetylcholine synthesis and content of rat hippocampal formation. Issa AM, et al. **J Neurochem** 1996 May;66(5):1924–32
Dysfunction of cholinergic and dopaminergic neuronal systems in beta-amyloid protein--infused rats. Itoh A, et al. **J Neurochem** 1996 Mar;66(3):1113–7
Susceptibility of hippocampal and cortical neurons to argon-mediated in vitro ischemia. Kusumoto M, et al. **J Neurochem** 1996 Oct;67(4):1613–21
Glutamate uptake impairment and neuronal damage in young and aged rats in vivo. Massieu L, et al. **J Neurochem** 1997 Sep;69(3):1151–60
Spatial learning activates neural cell adhesion molecule polysialylation in a corticohippocampal pathway within the medial temporal lobe. O'Connell AW, et al. **J Neurochem** 1997 Jun;68(6):2538–46
Protein kinases are involved in prolonged acetylcholine release from rat hippocampus induced by thyrotropin-releasing hormone analogue NS-3. Oka M, et al. **J Neurochem** 1996 May;66(5):1889–93
Depletion of neuronal endoplasmic reticulum calcium stores by thapsigargin: effect on protein synthesis. Paschen W, et al. **J Neurochem** 1996 Oct;67(4):1735–43
Studies of inositol phosphate export from neuronal tissue in vitro. Roberts RE, et al. **J Neurochem** 1997 Sep; 69(3):1291–9
Amygdala kindling modifies extracellular opioid peptide content in rat hippocampus measured by microdialysis. Rocha LL, et al. **J Neurochem** 1997 Feb;68(2):616–24
125I-galanin binding sites in Alzheimer's disease: increases in hippocampal subfields and a decrease in the caudate nucleus. Rodriguez-Puertas R, et al. **J Neurochem** 1997 Mar;68(3):1106–13
(1 S,3 R)-1-aminocyclopentane-1,3-dicarboxylic acid-induced increases in cyclic AMP formation in the neonatal rat hippocampus are mediated by a synergistic interaction between phosphoinositide- and inhibitory cyclic AMP-coupled mGluRs. Schoepp DD, et al. **J Neurochem** 1996 May;66(5):1981–5
Brain lactate is an obligatory aerobic energy substrate for functional recovery after hypoxia: further in vitro validation. Schurr A, et al. **J Neurochem** 1997 Jul; 69(1):423–6
Sulphur-containing amino acids modulate noradrenaline release from hippocampal slices. Selema G, et al. **J Neurochem** 1997 Apr;68(4):1534–41
Effect of pentylenetetrazole-induced kindling on acetylcholine release in the hippocampus of freely moving rats. Serra M, et al. **J Neurochem** 1997 Jan;68(1):313–8
Guanine nucleotide regulatory proteins, Gq and Gi1/2, mediate platelet-activating factor-stimulated phosphoinositide metabolism in immortalized hippocampal cells. Shi LC, et al. **J Neurochem** 1996 Oct;67(4):1478–84
Mast cell activation causes delayed neurodegeneration in mixed hippocampal cultures via the nitric oxide pathway. Skaper SD, et al. **J Neurochem** 1996 Mar;66(3):1157–66
Rate of retrograde transport of cholera toxin from the plasma membrane to the Golgi apparatus and endoplasmic reticulum decreases during neuronal development. Sofer A, et al. **J Neurochem** 1996 Nov;67(5):2134–40
Elevation of basal protein kinase C activity increases ethanol sensitivity of GABA(A) receptors in rat hippocampal CA1 pyramidal neurons. Weiner JL, et al. **J Neurochem** 1997 May;68(5):1949–59
Androgens modulate glucocorticoid receptor mRNA, but not mineralocorticoid receptor mRNA levels, in the rat hippocampus. Kerr JE, et al. **J Neuroendocrinol** 1996 Jun; 8(6):439–47
Blockade of corticosterone synthesis reduces serotonin turnover in the dorsal hippocampus of the rat as measured by microdialysis. Korte-Bouws GA, et al. **J Neuroendocrinol** 1996 Nov;8(11):877–81
11 beta-Hydroxysteroid dehydrogenase activity in the hippocampus: implications for in vivo corticosterone receptor binding and cell nuclear retention. van Haarst AD, et al. **J Neuroendocrinol** 1996 Aug;8(8):595–600
Changes in plasma adrenocorticotropin, corticosterone, corticosteroid-binding globulin, and hippocampal glucocorticoid receptor occupancy/translocation in rat pups in response to stress. Viau V, et al. **J Neuroendocrinol** 1996 Jan;8(1):1–8
Cytokines are increased in the rat hippocampus after serotonergic neuron degeneration and upregulate the expression of GDH, an enzyme involved in glutamate detoxification. Hardin-Pouzet H, et al. **J Neuroimmunol** 1996 Sep;69(1–2):117–22
Decreased cortical glucose metabolism correlates with hippocampal atrophy in Alzheimer's disease as shown by MRI and PET. Yamaguchi S, et al. **J Neurol Neurosurg Psychiatry** 1997 Jun;62(6):596–600
The mean A beta load in the hippocampus correlates with duration and severity of dementia in subgroups of Alzheimer disease. Bartoo GT, et al. **J Neuropathol Exp Neurol** 1997 May;56(5):531–40
BDNF and TrkB co-localize in CA1 neurons resistant to transient forebrain ischemia in the adult gerbil. Ferrer I, et al. **J Neuropathol Exp Neurol** 1997 Jul;56(7):790–7
APPSw transgenic mice develop age-related A beta deposits and neuropil abnormalities, but no neuronal loss in CA1. Irizarry MC, et al. **J Neuropathol Exp Neurol** 1997 Sep; 56(9):965–73
Loss of the presynaptic vesicle protein synaptophysin in hippocampus correlates with cognitive decline in Alzheimer disease. Sze CI, et al. **J Neuropathol Exp Neurol** 1997 Aug;56(8):933–44
Disproportionate loss of CA4 parvalbumin-immunoreactive interneurons in patients with Ammon's horn sclerosis. Zhu ZQ, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):988–98
AMPA receptor heterogeneity in rat hippocampal neurons revealed by differential sensitivity to cyclothiazide. Fleck MW, et al. **J Neurophysiol** 1996 Jun;75(6):2322–33
Temporal resolution of activity-dependent pH shifts in rat hippocampal slices. Gottfried JA, et al. **J Neurophysiol** 1996 Oct;76(4):2804–7
Sequestration of glutamate-induced Ca2+ loads by mitochondria in cultured rat hippocampal neurons. Wang GJ, et al. **J Neurophysiol** 1996 Sep;76(3):1611–21
Matrix metalloproteinase-9 (MMP-9) is synthesized in neurons of the human hippocampus and is capable of degrading the amyloid-beta peptide (1–40). Backstrom JR, et al. **J Neurosci** 1996 Dec 15;16(24):7910–9
Somatostatin inhibits excitatory transmission at rat hippocampal synapses via presynaptic receptors. Boehm S, et al. **J Neurosci** 1997 Jun 1;17(11):4066–75
Functional expression of the heteromeric "olfactory" cyclic nucleotide-gated channel in the hippocampus: a potential effector of synaptic plasticity in brain neurons. Bradley J, et al. **J Neurosci** 1997 Mar 15;17(6):1993–2005
Modulation of excitatory synaptic transmission by adenosine released from single hippocampal pyramidal neurons. Brundege JM, et al. **J Neurosci** 1996 Sep 15;16(18):5603–12
Beta-adrenergic stimulation selectively inhibits long-lasting L-type calcium channel facilitation in hippocampal pyramidal neurons. Cloues RK, et al. **J Neurosci** 1997 Sep 1;17(17):6493–503
Adenine nucleotides undergo rapid, quantitative conversion to adenosine in the extracellular space in rat hippocampus. Dunwiddie TV, et al. **J Neurosci** 1997 Oct 15; 17(20):7673–82
Expression of LIM protein genes Lmo1, Lmo2, and Lmo3 in adult mouse hippocampus and other forebrain regions: differential regulation by seizure activity. Hinks GL, et al. **J Neurosci** 1997 Jul 15;17(14):5549–59

Ultrastructural localization of dendritic messenger RNA in adult rat hippocampus. Martone ME, et al. **J Neurosci** 1996 Dec 1;16(23):7437–46

Visualization of the distribution of autophosphorylated calcium/calmodulin–dependent protein kinase II after tetanic stimulation in the CA1 area of the hippocampus. Ouyang Y, et al. **J Neurosci** 1997 Jul 15;17(14):5416–27

Differential presynaptic localization of metabotropic glutamate receptor subtypes in the rat hippocampus. Shigemoto R, et al. **J Neurosci** 1997 Oct 1;17(19):7503–22

Protein synthesis within dendrites: glycosylation of newly synthesized proteins in dendrites of hippocampal neurons in culture. Torre ER, et al. **J Neurosci** 1996 Oct 1; 16(19):5967–78

5–HT2A receptor–mediated regulation of brain–derived neurotrophic factor mRNA in the hippocampus and the neocortex. Vaidya VA, et al. **J Neurosci** 1997 Apr 15; 17(8):2785–95

Microperfusion of picrotoxin in the hippocampus of chronic freely moving rats through microdialysis probes: a new method of induce partial and secondary generalized seizures. Sierra–Paredes G, et al. **J Neurosci Methods** 1996 Aug;67(2):113–20

Time course and regional expression of C–FOS and HSP70 in hippocampus and piriform cortex following soman–induced seizures. Baille–Le Crom V, et al. **J Neurosci Res** 1996 Sep 1;45(5):513–24

Effects of phenylsuccinate on potassium–stimulated taurine release in cultured neurons and astrocytes and in rat hippocampus in vivo. Bruhn T, et al. **J Neurosci Res** 1996 Oct 15;46(2):198–203

Differential regulation of adrenocorticoid receptors in the hippocampus and spinal cord of adrenalectomized rats. Marlier LN, et al. **J Neurosci Res** 1996 Mar 1;43(5):526–34

Dopamine enhances somatostatin receptor–mediated inhibition of adenylate cyclase in rat striatum and hippocampus. Rodríguez–Sánchez MN, et al. **J Neurosci Res** 1997 May 1;48(3):238–48

CNS neuronal focal adhesion kinase forms clusters that co–localize with vinculin. Stevens GR, et al. **J Neurosci Res** 1996 Nov 15;46(4):445–55

Age–associated alterations in hippocampal and basal forebrain nuclear factor kappa B activity. Toliver–Kinsky T, et al. **J Neurosci Res** 1997 Jun 15;48(6):580–7

Adenovirus–mediated gene transfer into dissociated and explant cultures of rat hippocampal neurons. Wilkemeyer MF, et al. **J Neurosci Res** 1996 Jan 15;43(2):161–74

The effect of isoflurane on biochemical changes during and electrophysiological recovery after anoxia in rat hippocampal slices. Kass IS, et al. **J Neurosurg Anesthesiol** 1997 Jul;9(3):280–6

Effects of brain temperature on calmodulin and microtubule–associated protein 2 immunoreactivity in the gerbil hippocampus following transient forebrain ischemia. Eguchi Y, et al. **J Neurotrauma** 1997 Feb;14(2):109–18

Immunohistochemical study of calpain–mediated breakdown products to alpha–spectrin following controlled cortical impact injury in the rat. Newcomb JK, et al. **J Neurotrauma** 1997 Jun;14(6):369–83

Mapping the location of functional nicotinic and gamma–aminobutyric acidA receptors on hippocampal neurons. Alkondon M, et al. **J Pharmacol Exp Ther** 1996 Dec;279(3):1491–506

Hippocampal noradrenaline release in awake, freely moving rats is regulated by alpha–2 adrenoceptors but not by adenosine receptors. Carter AJ. **J Pharmacol Exp Ther** 1997 May;281(2):648–54

Acetylcholine release and choline availability in rat hippocampus: effects of exogenous choline and nicotinamide. Köppen A, et al. **J Pharmacol Exp Ther** 1997 Sep;282(3):1139–45

Osmolarity modulates K+ channel function on rat hippocampal interneurons but not CA1 pyramidal neurons. Baraban SC, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):679–89

Characterization of acid extrusion mechanisms in cultured fetal rat hippocampal neurones. Baxter KA, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):457–70

Somatic voltage–gated potassium currents of rat hippocampal pyramidal cells in organotypic slice cultures. Bossu JL, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):367–81

Distinct modes of channel gating underlie inactivation of somatic K+ current in rat hippocampal pyramidal cells in vitro. Bossu JL, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):383–97

Effect of metabolic inhibition on K+ channels in pyramidal cells of the hippocampal CA1 region in rat brain slices. Hyllienmark L, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):155–64

Voltage–dependent blockage of Ca(2+)–permeable AMPA receptors by joro spider toxin in cultured rat hippocampal neurones. Iino M, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):431–7

Lasting effects of glutamate on nuclear calcium concentration in cultured rat hippocampal neurons: regulation by calcium stores [published erratum appears in J Physiol (Lond) 1996 Dec 15;497(Pt 3):857] Korkotian E, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):39–48

The hyperpolarization–activated current (Ih) and its contribution to pacemaker activity in rat CA1 hippocampal stratum oriens–alveus interneurones. Maccaferri G, et al. **J Physiol (Lond)** 1996 Nov 15;497 (Pt 1):119–30

Postsynaptic modulation of NMDA synaptic currents in rat hippocampal microcultures by paired–pulse stimulation. Mennerick S, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):405–7

Regulation of intracellular sodium in cultured rat hippocampal neurones. Rose CR, et al. **J Physiol (Lond)** 1997 Mar 15;499 (Pt 3):573–87

Temporal specificity of muscarinic synaptic modulation of the Ca(2+)–dependent K+ current (ISAHP) in rat hippocampal neurones. Zhang L, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):395–405

The role of prostaglandins and the hypothalamic and hippocampal histamine in the clonidine–induced pituitary–adrenocortical response. Bugajski J, et al. **J Physiol Pharmacol** 1996 Sep;47(3):487–95

Intracellular calcium oscillation in cultured rat hippocampal neurons: a model for glutamatergic neurotransmission. Tanaka T, et al. **Jpn J Pharmacol** 1996 Jan;70(1):89–93

Rapid reduction in ryanodine binding of hippocampus CA1 in cerebral ischemia. Nozaki H, et al. **Keio J Med** 1997 Jun;46(2):85–9

Topiramate reduces abnormally high extracellular levels of glutamate and aspartate in the hippocampus of spontaneously epileptic rats (SER). Kanda T, et al. **Life Sci** 1996;59(19):1607–16

Oblique proton chemical shift imaging for the presurgical localization of mesial temporal epilepsy. Xue M, et al. **Magn Reson Med** 1997 Apr;37(4):619–23

NOR activity in hippocampal areas during the postnatal development and ageing. García Moreno LM, et al. **Mech Ageing Dev** 1997 Aug;97(2):173–81

Synaptoneurosomes. A preparation for studying subhippocampal GABAA receptor activity. Titulaer MN, et al. **Methods Mol Biol** 1997;72:49–59

Monitoring amino acid neurotransmitter release in the brain by in vivo microdialysis. Zuiderwijk M, et al. **Methods Mol Biol** 1997;72:239–50

Expression of brain–derived neurotrophic factor mRNA stimulated by basic fibroblast growth factor and platelet–derived growth factor in rat hippocampal cell line. Kwon YK. **Mol Cells** 1997 Jun 30;7(3):320–5

Hippocampal damage and cytoskeletal disruption resulting from impaired energy metabolism. Implications for Alzheimer disease. Geddes JW, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):65–74

Granule cell mRNA levels for BDNF, NGF, and NT–3 correlate with neuron losses or supragranular mossy fiber sprouting in the chronically damaged and epileptic human hippocampus. Mathern GW, et al. **Mol Chem Neuropathol** 1997 Jan–Feb;30(1–2):53–76

Long–term blockade of serotonin reuptake affects synaptotagmin phosphorylation in the hippocampus. Popoli M, et al. **Mol Pharmacol** 1997 Jan;51(1):19–26

Possible mechanisms for atrophy of the human hippocampus. McEwen BS. **Mol Psychiatry** 1997 May;2(3):255–62 (71 ref.)

Hypercortisolemia, hippocampal glucocorticoid receptors, and fast feedback. Young EA, et al. **Mol Psychiatry** 1996 May;1(2):149–59 (87 ref.)

Imprinted expression of the murine Angelman syndrome gene, Ube3a, in hippocampal and Purkinje neurons. Albrecht U, et al. **Nat Genet** 1997 Sep;17(1):75–8

Elevation of neuronal expression of NAIP reduces ischemic damage in the rat hippocampus. Xu DG, et al. **Nat Med** 1997 Sep;3(9):997–1004

Kainate receptors mediate a slow postsynaptic current in hippocampal CA3 neurons. Castillo PE, et al. **Nature** 1997 Jul 10;388(6638):182–6

P2–receptor–mediated inhibition of noradrenaline release in the rat hippocampus. Koch H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jun; 355(6):707–15

The contribution of different types of calcium channels to electrically–evoked adenosine release from rat hippocampal slices. Latini S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):250–5

Neuropeptide Y and somatostatin immunoreactivity in the rat hippocampus after moderate hypoxia. Schwarzer C, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Jun; 354(1):67–71

Neurochemical changes in the hippocampus of the brown Norway rat during aging. Bhatnagar M, et al. **Neurobiol Aging** 1997 May–Jun;18(3):319–27

Age–related loss of calcium binding proteins in rabbit hippocampus. de Jong GI, et al. **Neurobiol Aging** 1996 May–Jun;17(3):459–65

Effect of aging on the basal expression of c–Fos, c–Jun, and Egr–1 proteins in the hippocampus. Desjardins S, et al. **Neurobiol Aging** 1997 Jan–Feb;18(1):37–44

Glutamate receptor binding in the human hippocampus and adjacent cortex during development and aging. Johnson M, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):639–51

Beta–amyloid (beta/A4) deposition in the medial temporal lobe in Down's syndrome: effects of brain region and patient age. Armstrong RA, et al. **Neurobiol Dis** 1994 Dec; 1(3):139–44

Bicarbonate–sensitive cysteine induced elevation of extracellular aspartate and glutamate in rat hippocampus in vitro. Abbas AK, et al. **Neurochem Int** 1997 Mar; 30(3):253–9

Mechanism of adenosine accumulation in the hippocampal slice during energy deprivation. Doolette DJ. **Neurochem Int** 1997 Feb;30(2):211–23

Gamma–glutamyl peptides and related amino acids in rat hippocampus in vitro: effect of depolarization and gamma–glutamyl transpeptidase inhibition. Li X, et al. **Neurochem Int** 1996 Aug;29(2):121–8

Characterization of glutamate and [3H]D–aspartate outflow from various in vitro preparations of the rat hippocampus. Muzzolini A, et al. **Neurochem Int** 1997 Jul;31(1):113–24

Altered expression of amyloid protein precursor mRNA in the rat hippocampus following trimethyltin intoxication: an in situ hybridization study. O'Connell AW, et al. **Neurochem Int** 1997 Mar;30(3):313–20

Further characterisation of [3H]8–hydroxy–2–(di–N–propylamino)tetralin binding sites in human brain postmortem [published erratum appears in Neurochem Int 1997 Apr–May;30(4–5):515] Palego L, et al. **Neurochem Int** 1997 Feb;30(2):149–57

Activation of serotonergic 5–HT1A receptor reduces Ca(2+)– and glutamatergic receptor–evoked arachidonic acid and No/cGMP release in adult hippocampus. Strosznajder J, et al. **Neurochem Int** 1996 Apr;28(4):439–44

Influence of iron deficiency and lead treatment on behavior and cerebellar and hippocampal polyamine levels in neonatal rats. Adhami VM, et al. **Neurochem Res** 1996 Aug; 21(8):915–22

Effects of brain ischemia on intermediate filaments of rat hippocampus. Camargo–De–Morais M, et al. **Neurochem Res** 1996 May;21(5):595–602

Specific [3H]glutamate binding in the cerebral cortex and hippocampus of rats during development: effect of homocysteine–induced seizures. Folbergrová J, et al. **Neurochem Res** 1997 May;22(5):637–46

[3H]ketanserin binding in human brain postmortem. Marazziti D, et al. **Neurochem Res** 1997 Jun;22(6):753–7

Alteration of ryanodine receptor in the hippocampus CA1 after hemispheric cerebral ischemia. Nozaki H, et al. **Neurochem Res** 1996 Aug;21(8):975–82

Serotonergic activity of HP 184: does spontaneous release have a role? Smith CP, et al. **Neurochem Res** 1996 May; 21(5):575–83

Effect of nicotine on the level of extracellular amino acids in the hippocampus of rat. Toth E. **Neurochem Res** 1996 Aug;21(8):903–7

Pharmacological characterization of a nicotinic autoreceptor in rat hippocampal synaptosomes. Wilkie GI, et al. **Neurochem Res** 1996 Sep;21(9):1141–8

Neurochemical modulation of the hippocampus in learning, remembering and forgetting in primates. Ridley RM, et al. **Neurodegeneration** 1996 Dec;5(4):467–71 (27 ref.)

Hippocampal and hypothalamic type I corticosteroid receptor affinities are reduced in adult rats born by a caesarean procedure with or without an added period of anoxia. Boksa P, et al. **Neuroendocrinology** 1996 Jul; 64(1):25–34

Introduction to hippocampal spectroscopy. Jackson EF, et al. **Neuroimaging Clin N Am** 1997 Feb;7(1):143–54 (125 ref.)

Age–related reciprocal modulation of interleukin–1beta and interleukin–1 receptors in the mouse brain–endocrine–immune axis. Takao T, et al. **Neuroimmunomodulation** 1996 Jul–Aug;3(4):205–12

NMDA receptor mediated nitric oxide dependent cGMP synthesis in brain cortex and hippocampus. Effect of ischemia on NO related biochemical processes during reperfusion. Chalimoniuk M, et al. **Neurol Neurochir Pol** 1996;30 Suppl 2:65–84

NMDA receptor–mediated calcium fluxes in the hippocampus: relevance to ischemic brain pathology. Salińska E, et al. **Neurol Neurochir Pol** 1996;30 Suppl 2:35–42 (34 ref.)

Cytotoxic effect of Ca++ released from intracellular stores during cerebral energy deprivation. Grøndahl TO, et al. **Neurol Res** 1996 Dec;18(6):499–504

Fos–like immunoreactivity in rat hippocampal neurons following transient global ischemia. Tseng MT, et al. **Neurol Res** 1997 Feb;19(1):89–91

Possible implication of hippocampal cholinergic neurostimulating peptide (HCNP)–related components in Hirano body formation. Mitake S, et al. **Neuropathol Appl Neurobiol** 1996 Oct;22(5):440–5

Dextromethorphan blocks opioid peptide gene expression in the rat hippocampus induced by kainic acid. Kim HC, et al. **Neuropeptides** 1997 Apr;31(2):105–12

Action of harman (1–methyl–beta–carboline) on the brain: body temperature and in vivo efflux of 5–HT from hippocampus of the rat. Adell A, et al. **Neuropharmacology** 1996;35(8):1101–7

Competitive and glycine/NMDA receptor antagonists attenuate withdrawal–induced behaviours and increased hippocampal acetylcholine efflux in morphine–dependent rats. Bristow LJ, et al. **Neuropharmacology** 1997 Feb; 36(2):241–50

(RS)–2–chloro–5–hydroxyphenylglycine (CHPG) activates mGlu5, but no mGlu1, receptors expressed in CHO cells and potentiates NMDA responses in the hippocampus. Doherty AJ, et al. **Neuropharmacology** 1997 Feb; 36(2):265–7

Electroconvulsive shock increases the phosphorylation of cyclic AMP response element binding protein at Ser–133 in rat hippocampus but not in cerebellum. Jeon SH, et al. **Neuropharmacology** 1997 Mar;36(3):411–4

Benzodiazepine and barbiturate ligands modulate responses

of cultured hippocampal neurones to the GABAA receptor partial agonist, 4-PIOL. Kristiansen U, et al. **Neuropharmacology** 1996;35(9-10):1181-91

Proton modulation of functionally distinct GABAA receptors in acutely isolated pyramidal neurons of rat hippocampus. Pasternack M, et al. **Neuropharmacology** 1996;35(9-10):1279-88

The gamma 2 subunit of the GABAA receptor is concentrated in synaptic junctions containing the alpha 1 and beta 2/3 subunits in hippocampus, cerebellum and globus pallidus. Somogyi P, et al. **Neuropharmacology** 1996; 35(9-10):1425-44

An analysis of the effects of acute and chronic fluoxetine on extracellular norepinephrine in the rat hippocampus during stress. Page ME, et al. **Neuropsychopharmacology** 1997 Jun;16(6):419-25

Plant-derived amino acids increase hippocampal BDNF, NGF, c-fos and hsp70 mRNAs. Andersson H, et al. **Neuroreport** 1997 May 27;8(8):1813-7

c-fos antisense oligonucleotide prevents delayed induction of hsp70 mRNA after soman-induced seizures. Baille V, et al. **Neuroreport** 1997 May 27;8(8):1819-22

Dendritic compartmentation of NMDA receptor mRNA in cultured hippocampal neurons. Benson DL. **Neuroreport** 1997 Mar 3;8(4):823-8

Ethacrynic acid: effects on postsynaptic GABA responses and electric activity of CA3 neurones. Bonnet U, et al. **Neuroreport** 1996 Nov 25;7(18):2983-7

Aberrant induction of neuropeptide Y mRNA in hippocampal CA3 pyramidal neurones in scrapie-infected mice. Diez M, et al. **Neuroreport** 1996 Aug 12;7(12):1887-92

Long-term alterations in growth factor mRNA expression following seizures. Garcia ML, et al. **Neuroreport** 1997 Apr 14;8(6):1445-9

Imaging of Ca2+/calmodulin-dependent protein kinase II activity in hippocampal neurones. Higashi H, et al. **Neuroreport** 1996 Nov 4;7(15-17):2695-700

Identification of a novel glial fibrillary acidic protein mRNA isotype related to memory retention in rats. Huang AM, et al. **Neuroreport** 1997 May 6;8(7):1619-24

Accumulation of apolipoprotein E and beta-amyloid-like protein in a trace of the hippocampal CA1 pyramidal cell layer after ischaemic delayed neuronal death. Ishimaru H, et al. **Neuroreport** 1996 Nov 25;7(18):3063-7

Age-related changes in the expression of Alzheimer's beta APP in the brain of senescence accelerated mouse (SAM)-P/10. Jeong SJ, et al. **Neuroreport** 1997 May 6; 8(7):1733-7

Activity-induced enhancement of HB-GAM expression in rat hippocampal slices. Lauri SE, et al. **Neuroreport** 1996 Jul 8;7(10):1670-4

Proliferating cell nuclear antigen in neurones: induction by u.v. irradiation. Okada M, et al. **Neuroreport** 1996 Jul 29; 7(11):1770-2

Anterograde transport of endogenous brain-derived neurotrophic factor in hippocampal mossy fibers. Smith MA, et al. **Neuroreport** 1997 May 27;8(8):1829-34

Expression of calbindin-D28K by reactive astrocytes in gerbil hippocampus after ischaemia. Toyoshima T, et al. **Neuroreport** 1996 Sep 2;7(13):2087-91

Acidosis of hippocampal neurones mediated by a plasmalemmal Ca2+/H+ pump. Trapp S, et al. **Neuroreport** 1996 Aug 12;7(12):2000-4

Strong induction of activin expression after hippocampal lesion. Tretter YP, et al. **Neuroreport** 1996 Jul 29; 7(11):1819-23

Induction of thymosin beta(4) mRNA following focal brain ischemia. Vartiainen N, et al. **Neuroreport** 1996 Jul 8; 7(10):1613-6

Acetylcholine in the hippocampus during the discrimination learning performance in a rat model of chronic cerebral ischaemia. Yamamuro Y, et al. **Neuroreport** 1996 Jul 29; 7(11):1837-40

Effects of glutamate receptor agonists on presumed presynaptic Ca(2+)-signals in juvenile rat hippocampal area CA1. Alici K, et al. **Neurosci Lett** 1996 Aug 16; 214(1):17-20

Protein malnutrition alters the cholinergic and GABAergic systems of the hippocampal formation of the adult rat: an immunocytochemical study. Andrade JP, et al. **Neurosci Lett** 1996 Jun 28;211(3):211-5

Induction of tolerance and mossy fibre neuropeptide-Y expression in the contralateral hippocampus following a unilateral intrahippocampal kainic acid injection in the rat. El Bahh B, et al. **Neurosci Lett** 1997 May 16;227(2):135-9

Human APOE protein localized in brains of transgenic mice. Bowman BH, et al. **Neurosci Lett** 1996 Nov 15;219(1):57-9

Differential effects of learning and recall of a spatial task on phosphoinositide hydrolysis induced by the metabotropic glutamate receptor agonist 1S,3R-ACPD (1S,3R-1-amino-cyclopentane-1,3-discarboxylic acid) in the hippocampus and the prefrontal cortex of rats. de Bruin JP, et al. **Neurosci Lett** 1996 Feb 2;204(1-2):57-60

Development of GABA and calcium binding proteins immunoreactivity in the rat hippocampus following neonatal anoxia. Dell'Anna E, et al. **Neurosci Lett** 1996 Jun 21;211(2):93-6

Muscarinic activation reduces changes in [Ca2+]o evoked by stimulation of Schaffer collaterals during blocked synaptic transmission in rat hippocampal slices. Egorov AV, et al. **Neurosci Lett** 1996 Aug 23;214(2-3):187-90

Modulation of hippocampal acetylcholine release after fimbria-fornix lesions and septal transplantation in rats. Erb C, et al. **Neurosci Lett** 1997 Aug 1;231(1):5-8

Monocarboxylates (pyruvate and lactate) as alternative energy substrates for the induction of long-term potentiation in rat hippocampal slices. Izumi Y, et al. **Neurosci Lett** 1997 Aug 22;232(1):17-20

Altered expression of NPY-Y1 receptors in kainic acid induced epilepsy in rats. Kofler N, et al. **Neurosci Lett** 1997 Jul 18;230(2):129-32

The effect of hypothermia on H2O2 production during ischemia and reperfusion: a microdialysis study in the gerbil hippocampus. Lei B, et al. **Neurosci Lett** 1997 Jan 31; 222(2):91-4

Attenuated stress response of hippocampal acetylcholine release and adrenocortical secretion in aged rats. Mizuno T, et al. **Neurosci Lett** 1997 Jan 24;222(1):49-52

Possible involvement of alpha 1-adrenoceptors in the modulation of [3H]noradrenaline release in rat brain cortical and hippocampal synaptosomes. Pastor C, et al. **Neurosci Lett** 1996 Oct 4;216(3):187-90

Glutamate stimulates neurogranin phosphorylation in cultured rat hippocampal neurons. Rodríguez-Sánchez P, et al. **Neurosci Lett** 1997 Jan 17;221(2-3):137-40

Pre/postnatal dopamine D1 receptor stimulation induces a differential reduction of serotonin levels in hippocampus and superior colliculus of puber rats. Sajnani GG, et al. **Neurosci Lett** 1997 Jul 18;230(2):121-4

Changes in beta amyloid precursor protein secretion associated with the proliferative status of CNS derived progenitor cells. Salvietti N, et al. **Neurosci Lett** 1996 Jul 19;212(3):199-203

Parallel increases in [alpha-125I]bungarotoxin binding and alpha 7 nicotinic subunit immunoreactivity during the development of rat hippocampal neurons in culture. Samuel N, et al. **Neurosci Lett** 1997 Feb 7;222(3):179-82

Kindling-like state in rat hippocampal CA1 slices induced by the repeated short-term extracellular K+ increases: the role of L-type Ca(2+)-channels. Semyanov A, et al. **Neurosci Lett** 1997 Feb 28;223(3):177-80

Effects of hypothermia on the neuronal activity, [Ca2+]i accumulation and ATP levels during oxygen and/or glucose deprivation in hippocampal slices of guinea pigs. Takata T, et al. **Neurosci Lett** 1997 May 9;227(1):41-4

Expression of neurotrophin-3 mRNA in the rat visual cortex and hippocampus is influenced by environmental conditions. Torasdotter M, et al. **Neurosci Lett** 1996 Nov 1;218(2):107-10

Excision-activated chloride channels in cultured postnatal rat hippocampal neurons. Uchida I, et al. **Neurosci Lett** 1995 Nov 24;200(3):159-62

Effect of glutamate receptor phosphorylation by endogenous protein kinases on electrical activity of isolated postsynaptic densities of rat cortex and hippocampus. Wyneken U, et al. **Neurosci Lett** 1997 Mar 14;224(2):131-5

Pancreastatin-like immunoreactivity in globular dystrophic neurites of senile plaques in brains of patients with Alzheimer's disease. Yasuhara O, et al. **Neurosci Lett** 1996 Apr 26;208(3):167-70

The effect of circulatory arrest and retrograde cerebral perfusion on microtubule-associated protein 2: an immunohistochemical study in pig hippocampus. Ye J, et al. **Neurosci Lett** 1997 Jan 24;222(1):9-12

A chronological study of the expression of glial fibrillary acidic protein and calbindin-D28 k by reactive astrocytes in the electrically lesioned rat brain. Ahmed BY, et al. **Neurosci Res** 1996 Nov;26(3):271-8

Transient decrease of HPC-1/syntaxin-1A mRNA in the rat hippocampus by kainic acid. Fujino I, et al. **Neurosci Res** 1997 Jul;28(3):243-7

Presenilin 1 mRNA expression in hippocampi of sporadic Alzheimer's disease patients. Nishiyama K, et al. **Neurosci Res** 1996 Sep;26(1):75-8

Expression of glial glutamate transporters GLT-1 and GLAST is unchanged in the hippocampus in fully kindled rats. Akbar MT, et al. **Neuroscience** 1997 May;78(2):351-9

Epileptiform activity increases the level of nerve growth factor in cerebrospinal fluid of epileptic patients and in hippocampal neurons in tissue culture. Akoev GN, et al. **Neuroscience** 1996 Nov;75(2):601-5

ret receptor tyrosine kinase immunoreactivity is altered in glial cell line-derived neurotrophic factor-responsive neurons following lesions of the nigrostriatal and septohippocampal pathways. Araujo DM, et al. **Neuroscience** 1997 Sep;80(1):9-16

The inducible 70,000 molecular/weight heat shock protein is expressed in the degenerating dentate hilus and piriform cortex after systemic administration of kainic acid in the rat. Armstrong JN, et al. **Neuroscience** 1996 Oct; 74(3):685-93

Temporal dynamics of glutamate efflux in the prefrontal cortex and in the hippocampus following repeated stress: effects of pretreatment with saline or diazepam. Bagley J, et al. **Neuroscience** 1997 Mar;77(1):65-73

Imaging free zinc in synaptic terminals in live hippocampal slices. Budde T, et al. **Neuroscience** 1997 Jul;79(2):347-58

Expression of messenger RNA coding for the nerve growth factor receptor trkA in the hippocampus of the adult rat. Cellerino A. **Neuroscience** 1996 Feb;70(3):613-16

Presence and differential internalization of two distinct insulin-like growth factor receptors in rat hippocampal neurons. Doré S, et al. **Neuroscience** 1997 May;78(2):373-83

Characterization of the rat hippocalcin gene: the 5' flanking region directs expression to the hippocampus. Grant AL, et al. **Neuroscience** 1996 Dec;75(4):1099-115

Aging-related subunit expression changes of the GABAA receptor in the rat hippocampus. Gutiérrez A, et al. **Neuroscience** 1996 Sep;74(2):341-8

Quantitation of AMPA receptor surface expression in cultured hippocampal neurons. Hall RA, et al. **Neuroscience** 1997 May;78(2):361-71

Extracellular adenosine levels in neostriatum and hippocampus during rest and activity periods of rats. Huston JP, et al. **Neuroscience** 1996 Jul;73(1):99-107

Strain-dependent effects of dopamine agonists on acetylcholine release in the hippocampus: an in vivo study in mice. Imperato A, et al. **Neuroscience** 1996 Feb; 70(3):653-60

Expression of the neural adhesion molecule L1 in the deafferented dentate gyrus. Jucker M, et al. **Neuroscience** 1996 Dec;75(3):703-15

Hippocampal type I and type II corticosteroid receptors are differentially regulated by chronic prazosin treatment. Kabbaj M, et al. **Neuroscience** 1996 Aug;73(4):963-70

Systemic administration of kainic acid induces selective time dependent decrease in [125I]insulin-like growth factor I, [125I]insulin-like growth factor II and [125I]insulin receptor binding sites in adult rat hippocampal formation. Kar S, et al. **Neuroscience** 1997 Oct;80(4):1041-55

Changes in thyrotropin-releasing hormone levels in hippocampal subregions induced by a model of human temporal lobe epilepsy: effect of partial and complete kindling [published erratum appears in Neuroscience 1997 May;78(1):301] Knoblach SM, et al. **Neuroscience** 1997 Jan; 76(1):97-104

AMPA receptors in the rat and primate hippocampus: a possible absence of GluR2/3 subunits in most interneurons. Leranth C, et al. **Neuroscience** 1996 Feb;70(3):631-52

Pilocarpine-induced seizures are accompanied by a transient elevation in the messenger RNA expression of the prohormone convertase PC1 in rat hippocampus: comparison with nerve growth factor and brain-derived neurotrophic factor expression. Marcinkiewicz M, et al. **Neuroscience** 1997 Jan;76(2):425-39

The expression pattern of somatostatin and calretinin by postnatal hippocampal interneurons is regulated by activity-dependent and -independent determinants. Marty S, et al. **Neuroscience** 1997 Sep;80(1):79-88

Elevated basal trough levels of corticosterone suppress hippocampal 5-hydroxytryptamine(1A) receptor expression in adrenally intact rats: implication for the pathogenesis of depression. Meijer OC, et al. **Neuroscience** 1997 Sep;80(2):419-26

Calcineurin in the adult rat hippocampus: different distribution in CA1 and CA3 subfields. Morioka M, et al. **Neuroscience** 1997 Jun;78(3):673-84

Erythropoietin receptor is expressed in rat hippocampal and cerebral cortical neurons, and erythropoietin prevents in vitro glutamate-induced neuronal death. Morishita E, et al. **Neuroscience** 1997 Jan;76(1):105-16

Hippocampal N-methyl-D-aspartate and kainate binding in response to entorhinal cortex aspiration or 192 IgG-saporin lesions of the basal forebrain. Nicolle MM, et al. **Neuroscience** 1997 Apr;77(3):649-59

Ketanserin selectively blocks acute stress-induced changes in NGFI-A and mineralocorticoid receptor gene expression in hippocampal neurons. Olsson T, et al. **Neuroscience** 1997 Jan;76(2):441-8

Differential expression of apolipoprotein D and apolipoprotein E in the kainic acid-lesioned rat hippocampus. Ong WY, et al. **Neuroscience** 1997 Jul; 79(2):359-67

Alterations in hippocampal expression of SNAP-25, GAP-43, stannin and glial fibrillary acidic protein following mechanical and trimethyltin-induced injury in the rat. Patanow CM, et al. **Neuroscience** 1997 Jan; 76(1):187-202

Expression of the 27,000 mol. wt heat shock protein following kainic acid-induced status epilepticus in the rat. Plumier JC, et al. **Neuroscience** 1996 Dec;75(3):849-56

Cholinergic denervation and sympathetic ingrowth result in persistent changes in hippocampal muscarinic receptors. Roberson MR, et al. **Neuroscience** 1997 Sep;80(2):413-8

Mechanism of glutamate release from rat hippocampal slices during in vitro ischemia. Roettger V, et al. **Neuroscience** 1996 Dec;75(3):677-85

Enhanced taurine release in cell-damaging conditions in the developing and ageing mouse hippocampus. Saransaari P, et al. **Neuroscience** 1997 Aug;79(3):847-54

Comparative study of brain-derived neurotrophic factor messenger RNA and protein at the cellular level suggests multiple roles in hippocampus, striatum and cortex. Schmidt-Kastner R, et al. **Neuroscience** 1996 Sep; 74(1):161-83

GABA(A) receptor subunits in the rat hippocampus II: altered distribution in kainic acid-induced temporal lobe epilepsy. Schwarzer C, et al. **Neuroscience** 1997 Oct; 80(4):1001-17

Distribution of substance P-immunoreactive neurons and fibers in the monkey hippocampal formation. Seress L, et al. **Neuroscience** 1996 Apr;71(3):633-50

Electrophysiological changes in rat hippocampal pyramidal neurons produced by cholecystokinin octapeptide. Shinohara S, et al. **Neuroscience** 1997 Jun;78(4):1005-16

The regulation of hippocampal dynorphin by

neural/neuroendocrine pathways: models for effects of aging on an opioid peptide system. Thai L, et al. **Neuroscience** 1996 Feb;70(3):661–71

GABA(A) receptor subunits in the rat hippocampus III: altered messenger RNA expression in kainic acid–induced epilepsy. Tsunashima K, et al. **Neuroscience** 1997 Oct; 80(4):1019–32

Decreased expression of N–methyl–D–aspartate receptor 1 messenger RNA in select regions of Alzheimer brain. Ulas J, et al. **Neuroscience** 1997 Aug;79(4):973–82

Chronic corticosterone treatment induces parallel changes in N–methyl–D–aspartate receptor subunit messenger RNA levels and antagonist binding sites in the hippocampus. Weiland NG, et al. **Neuroscience** 1997 Jun;78(3):653–62

Corticosteroid effects on sodium and calcium currents in acutely dissociated rat CA1 hippocampal neurons. Werkman TR, et al. **Neuroscience** 1997 Jun;78(3):663–72

Site–specific regulation of corticosteroid and serotonin receptor subtype gene expression in the rat hippocampus following 3,4–methylenedioxymethamphetamine: role of corticosterone and serotonin. Yau JL, et al. **Neuroscience** 1997 May;78(1):111–21

Positive correlation between prolonged potentiation of binding of double–stranded oligonucleotide probe for the transcription factor AP1 and resistance to transient forebrain ischemia in gerbil hippocampus. Yoneda Y, et al. **Neuroscience** 1997 Aug;79(4):1023–37

Attenuation of trimethyltin–evoked glutamate (GLU) efflux from rat cortical and hippocampal slices. Patterson TA, et al. **Neurotoxicol Teratol** 1996 Nov–Dec;18(6):697–702

Effect on the content of n–acetylaspartate, total creatine, choline containing compounds, and lactate in the hippocampus of rats exposed to aromatic white spirit for three weeks measured by NMR spectroscopy. Steensgaard A, et al. **Neurotoxicology** 1996 Fall–Winter;17(3–4):785–92

Functional characterization of two 5–HT3 receptor splice variants isolated from a mouse hippocampal cell line. Glitsch M, et al. **Pflugers Arch** 1996 May;432(1):134–43

Reduced evoked release of acetylcholine in the rodent hippocampus following traumatic brain injury. Dixon CE, et al. **Pharmacol Biochem Behav** 1996 Mar;53(3):679–86

Behavioral and neurochemical effects induced by chronic L–DOPA administration. Molinengo L, et al. **Pharmacol Biochem Behav** 1996 Aug;54(4):779–85

Effects of chronic episodic hypoxia on monoamine metabolism and motor activity. Li R, et al. **Physiol Behav** 1996 Oct;60(4):1071–6

Hippocampal acetylcholine increases during eyeblink conditioning in the rabbit. Meyer JJ, et al. **Physiol Behav** 1996 Nov;60(5):1199–203

Potentiation of GABAA receptor in cultured mouse hippocampal cells by brain–derived peptide mixture cerebrolysin. Zemková H, et al. **Physiol Res** 1995; 44(3):151–5

Repeated amphetamine administration down–regulates glucocorticoid, but not mineralocorticoid, receptors in the rat hippocampus. Budziszewska B, et al. **Pol J Pharmacol** 1995 Sep–Oct;47(5):401–6

Chronic electroconvulsive shock but not lithium reduces density of (+)[3H]pentazocine binding sites in rat hippocampus. Nowak G. **Pol J Pharmacol** 1996 May–Jun; 48(3):287–9

A single dose of kainic acid elevates the levels of enkephalins and activator protein–1 transcription factors in the hippocampus for up to 1 year. Bing G, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9422–7

Activation of heteromeric G protein–gated inward rectifier K+ channels overexpressed by adenovirus gene transfer inhibits the excitability of hippocampal neurons. Ehrengruber MU, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7070–5

Rat hippocampal neurons express genes for both rod retinal and olfactory cyclic nucleotide–gated channels: novel targets for cAMP/cGMP function. Kingston PA, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10440–5

Virus–mediated gene transfer into hippocampal CA1 region restores long–term potentiation in brain–derived neurotrophic factor mutant mice. Korte M, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12547–52

Differential synaptic localization of two major gamma–aminobutyric acid type A receptor alpha subunits on hippocampal pyramidal cells. Nusser Z, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11939–44

Iron accumulation in Alzheimer disease is a source of redox–generated free radicals. Smith MA, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9866–8

Intracellular and secreted Alzheimer beta–amyloid species are generated by distinct mechanisms in cultured hippocampal neurons. Tienari PJ, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4125–30

Blockade of metabotropic glutamate receptors protects hippocampal neurons from hypoxia–induced cell death in rat in vivo. Riedel G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1253–63

The 5–HT1A antagonist, WAY 100635, ameliorates the cognitive impairment induced by fornix transection in the marmoset. Harder JA, et al. **Psychopharmacology (Berl)** 1996 Oct;127(3):245–54

Increase of 5–HT7 (serotonin–7) and 5–HT1A (serotonin–1A) receptor mRNA expression in rat hippocampus after adrenalectomy. Le Corre S, et al. **Psychopharmacology (Berl)** 1997 Apr;130(4):368–74

Temporal lobe epilepsy: bilateral hippocampal metabolite changes revealed at proton MR spectroscopic imaging. Ende GR, et al. **Radiology** 1997 Mar;202(3):809–17

Insulin gene expression in immortalized rat hippocampal and pheochromocytoma–12 cell lines. Singh BS, et al. **Regul Pept** 1997 Mar 12;69(1):7–14

Hippocampal age–related changes in schizophrenia: a proton magnetic resonance spectroscopy study. Maier M, et al. **Schizophr Res** 1996 Oct 18;22(1):5–17

Regulatory phosphorylation of AMPA–type glutamate receptors by CaM–KII during long–term potentiation [see comments] Barria A, et al. **Science** 1997 Jun 27; 276(5321):2042–5. Comment in: Science 1997 Jun 27;276(5321):2001–2.

Regionally different elevation of intracellular free calcium in hippocampus of septic rat brain. Zhan RZ, et al. **Shock** 1996 Oct;6(4):293–7

Distribution of hippocampal mineralocorticoid and glucocorticoid receptor mRNA in a glucocorticoid resistant nonhuman primate. Johnson EO, et al. **Steroids** 1996 Feb;61(2):69–73

Differences in the subregional and cellular distribution of GABAA receptor binding in the hippocampal formation of schizophrenic brain. Benes FM, et al. **Synapse** 1996 Apr; 22(4):338–49

Effects of adrenalectomy on Ca2+ currents and Ca2+ channel subunit mRNA expression in hippocampal CA1 neurons of young rats. Karst H, et al. **Synapse** 1997 Jun; 26(2):155–64

New 5–HT1A receptor antagonist: [3H]p–MPPF. Kung HF, et al. **Synapse** 1996 Aug;23(4):344–6

[Hippocampal hemosiderin deposit due to large pituitary adenoma presenting temporal lobe epilepsy—a case report] Hashizume K, et al. **No To Shinkei** 1997 Apr;49(4):366–71 (Eng. Abstr.) **(Jpn)**

[The neurochemical characteristics of the neurons in the human hippocampal formation] Diulzen IV, et al. **Morfologiia** 1996;110(6):49–54 (Eng. Abstr.) **(Rus)**

PATHOLOGY

Evolution of the neuropathology of Alzheimer's disease. Braak H, et al. **Acta Neurol Scand Suppl** 1996;165:3–12 (53 ref.)

Alzheimer's disease: transiently developing dendritic changes in pyramidal cells of sector CA1 of the Ammon's horn. Braak E, et al. **Acta Neuropathol (Berl)** 1997 Apr; 93(4):323–5

Early ultrastructural changes after brief histotoxic hypoxia in cultured cortical and hippocampal CA1 neurons. Dux E, et al. **Acta Neuropathol (Berl)** 1996 Dec;92(6):541–4

Eosinophilic intranuclear inclusions in the hippocampal pyramidal neurons of a patient with amyotrophic lateral sclerosis. Kakita A, et al. **Acta Neuropathol (Berl)** 1997 May;93(5):532–6

Cell cycle markers in the hippocampus in Alzheimer's disease. Nagy Z, et al. **Acta Neuropathol (Berl)** 1997 Jul; 94(1):6–15

Hippocampal volume in normal aging and traumatic brain injury [see comments] Bigler ED, et al. **AJNR Am J Neuroradiol** 1997 Jan;18(1):11–23. Comment in: AJNR Am J Neuroradiol 1997 Jan;18(1):25–8.

Reversible signal abnormalities in the hippocampus and neocortex after prolonged seizures. Chan S, et al. **AJNR Am J Neuroradiol** 1996 Oct;17(9):1725–31

Technique for measuring hippocampal T2 relaxation time [see comments] Duncan JS, et al. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1805–10. Comment in: AJNR Am J Neuroradiol 1996 Nov–Dec;17(10):1811–4.

Hippocampal atrophy as detected by width of the temporal horn is greater in Alzheimer dementia than in nondementing cognitive impairment [letter] Frisoni GB, et al. **AJNR Am J Neuroradiol** 1997 Jun–Jul;18(6):1192–3; discussion 1193–5

Hippocampal T2 relaxometry in epilepsy: past, present, and future [comment] Jack CR Jr. **AJNR Am J Neuroradiol** 1996 Nov–Dec;17(10):1811–4. Comment on: AJNR Am J Neuroradiol 1996 Nov–Dec;17(10):1805–10.

Immediate–early gene expression in ovine brain after cardiopulmonary bypass and hypothermic circulatory arrest. Bokesch PM, et al. **Anesthesiology** 1996 Dec; 85(6):1439–46

Transport of pituitary adenylate cyclase–activating polypeptide across the blood–brain barrier and the prevention of ischemia–induced death of hippocampal neurons. Banks WA, et al. **Ann N Y Acad Sci** 1996 Dec 26;805:270–7; discussion 277–9 (50 ref.)

Stress effects on morphology and function of the hippocampus. McEwen BS, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:271–84 (70 ref.)

Reduced hippocampal volume and n–acetyl aspartate in posttraumatic stress disorder. Schuff N, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:516–20

The clinical syndrome of early–life bilateral hippocampal sclerosis. DeLong GR, et al. **Ann Neurol** 1997 Jul; 42(1):11–7

Sequestration of RNA in Alzheimer's disease neurofibrillary tangles and senile plaques. Ginsberg SD, et al. **Ann Neurol** 1997 Feb;41(2):200–9

Correlation of widespread preoperative magnetic resonance imaging changes with unsuccessful surgery for hippocampal sclerosis. Sisodiya SM, et al. **Ann Neurol** 1997 Apr;41(4):490–6

The spectrum of hippocampal sclerosis: a quantitative magnetic resonance imaging study. Van Paesschen W, et al. **Ann Neurol** 1997 Jan;41(1):41–51

Ischemic damage in the hippocampus: a silver impregnation and immunocytochemical study in the rat. Cížková D, et al. **Arch Ital Biol** 1996 Oct;134(4):279–90

Selective cortical and hippocampal volume correlates of Mattis Dementia Rating Scale in Alzheimer disease. Fama R, et al. **Arch Neurol** 1997 Jun;54(6):719–28

Specificity of volumetric magnetic resonance imaging in detecting hippocampal sclerosis. Watson C, et al. **Arch Neurol** 1997 Jan;54(1):67–73

Hippocampal degeneration inducing impairment of learning in rats: model of dementia? Ishikawa K, et al. **Behav Brain Res** 1997 Feb;83(1–2):39–44 (26 ref.)

Magnetic resonance imaging–based measurement of hippocampal volume in posttraumatic stress disorder related to childhood physical and sexual abuse—a preliminary report. Bremner JD, et al. **Biol Psychiatry** 1997 Jan 1;41(1):23–32

Reduction in hippocampal formation volume is caused mainly by its shortening in chronic schizophrenia: assessment by MRI. Fukuzako H, et al. **Biol Psychiatry** 1996 Jun 1; 39(11):938–45

Magnetic resonance imaging study of hippocampal volume in chronic, combat–related posttraumatic stress disorder. Gurvits TV, et al. **Biol Psychiatry** 1996 Dec 1; 40(11):1091–9

Mossy fibers of the hippocampal formation in prenatal malnourished rats. Granados L, et al. **Bol Estud Med Biol** 1995 Jan–Dec;43(1–4):3–11

Block by N6–L–phenylisopropyl–adenosine of the electrophysiological and morphological correlates of hippocampal ischaemic injury in the gerbil. Domenici MR, et al. **Br J Pharmacol** 1996 Jul;118(6):1551–7

Presymptomatic hippocampal atrophy in Alzheimer's disease. A longitudinal MRI study. Fox NC, et al. **Brain** 1996 Dec; 119 (Pt 6):2001–7

Time scale and extent of neuronal and synaptic loss in the hippocampal formation of malnourished adult rats. Andrade JP, et al. **Brain Res** 1996 Apr 29;718(1–2):1–12

Flupirtine reduces functional deficits and neuronal damage after global ischemia in rats. Block F, et al. **Brain Res** 1997 Apr 18;754(1–2):279–84

Hypoxic pretreatment protects against neuronal damage of the rat hippocampus induced by severe hypoxia. Gorgias N, et al. **Brain Res** 1996 Apr 1;714(1–2):215–25

Loss of hippocampal CA1 neurons and learning impairment in subicular lesioned rats. Govindaiah, et al. **Brain Res** 1997 Jan 16;745(1–2):121–6

Long–term effects of cysteamine on cognitive and locomotor behavior in rats: relationship to hippocampal glial pathology and somatostatin levels. Justino L, et al. **Brain Res** 1997 Jun 27;761(1):127–34

Methamphetamine exposure can produce neuronal degeneration in mouse hippocampal remnants. Schmued LC, et al. **Brain Res** 1997 Jun 6;759(1):135–40

Identification of calcium channels involved in neuronal injury in rat hippocampal slices subjected to oxygen and glucose deprivation. Small DL, et al. **Brain Res** 1997 Apr 11; 753(2):209–18

Effect of chronic restraint stress on dendritic spines and excrescences of hippocampal CA3 pyramidal neurons—a quantitative study. Sunanda, et al. **Brain Res** 1995 Oct 2; 694(1–2):312–7

Prevention of ischemia–induced death of hippocampal neurons by pituitary adenylate cyclase activating polypeptide. Uchida D, et al. **Brain Res** 1996 Oct 14; 736(1–2):280–6

Ischemic tolerance to memory impairment associated with hippocampal neuronal damage after transient cerebral ischemia in rats. Ohno M, et al. **Brain Res Bull** 1996; 40(3):229–36

The abnormal distribution of mossy fiber bundles and morphological abnormalities in hippocampal formation of dreher(J) (dr(J)/dr(J))mouse. Sekiguchi M, et al. **Brain Res Dev Brain Res** 1996 Mar 29;92(1):31–8

Paraneoplastic limbic encephalitis in Hodgkin's disease. Deodhare S, et al. **Can J Neurol Sci** 1996 May;23(2):138–40

Resistance of the hippocampus in Creutzfeldt–Jakob disease. Masullo C, et al. **Clin Neuropathol** 1997 Jan–Feb; 16(1):37–44

Mossy fiber reorganization in the epileptic hippocampus. Parent JM, et al. **Curr Opin Neurol** 1997 Apr;10(2):103–9 (50 ref.)

Usefulness of simple measures of temporal lobe atrophy in probable Alzheimer's disease. Frisoni GB, et al. **Dementia** 1996 Jan–Feb;7(1):15–22

Atrophy of hippocampus in patients with Alzheimer's disease and other diseases with memory impairment. Horn R, et al. **Dementia** 1996 Jul–Aug;7(4):182–6

Hippocampal pathology reflects memory deficit and brain imaging measurements in Alzheimer's disease: clinicopathologic correlations using three sets of pathologic diagnostic criteria. Nagy Z, et al. **Dementia** 1996 Mar–Apr; 7(2):76–81

Glucocorticoids enhance oxidative stress–induced cell death in hippocampal neurons in vitro. Behl C, et al. **Endocrinology** 1997 Jan;138(1):101–6

Hippocampal atrophy is not a major determinant of regional

hypometabolism in temporal lobe epilepsy. O'Brien TJ, et al. **Epilepsia** 1997 Jan;38(1):74–80
Volumetric magnetic resonance imaging evidence of bilateral hippocampal atrophy in mesial temporal lobe epilepsy. Quigg M, et al. **Epilepsia** 1997 May;38(5):588–94
Relationship of hippocampal sclerosis to duration and age of onset of epilepsy, and childhood febrile seizures in temporal lobectomy patients. Davies KG, et al. **Epilepsy Res** 1996 Jun;24(2):119–26
Neuroethological and morphological (Neo–Timm staining) correlates of limbic recruitment during the development of audiogenic kindling in seizure susceptible Wistar rats. Garcia–Cairasco N, et al. **Epilepsy Res** 1996 Dec; 26(1):177–92
Neuron loss, mossy fiber sprouting, and interictal spikes after intrahippocampal kainate in developing rats. Leite JP, et al. **Epilepsy Res** 1996 Dec;26(1):219–31
Possible mechanisms inducing granule cell dispersion in humans with temporal lobe epilepsy. Lurton D, et al. **Epilepsy Res** 1997 Jan;26(2):351–61
The pathogenic and progressive features of chronic human hippocampal epilepsy. Mathern GW, et al. **Epilepsy Res** 1996 Dec;26(1):151–61
Vigabatrin and carbamazepine have different efficacies in the prevention of status epilepticus induced neuronal damage in the hippocampus and amygdala. Pitkänen A, et al. **Epilepsy Res** 1996 May;24(1):29–45
Longitudinal distribution of hippocampal atrophy in mesial temporal lobe epilepsy. Quigg M, et al. **Epilepsy Res** 1997 May;27(2):101–10
Is cell death necessary for hippocampal mossy fiber sprouting? Stringer JL, et al. **Epilepsy Res** 1997 Apr; 27(1):67–76
Structural impairment of hippocampal neurons following a single epileptic afterdischarge. Horváth Z, et al. **Epilepsy Res Suppl** 1996;12:325–34
Laminar damage of neurons and astrocytes in neocortex and hippocampus of rat after long–lasting status epilepticus induced by pilocarpine. Schmidt–Kastner R, et al. **Epilepsy Res Suppl** 1996;12:309–16
Hippocampal pyramidal cell disarray correlates negatively to cell number: implications for the pathogenesis of schizophrenia. Jönsson SA, et al. **Eur Arch Psychiatry Clin Neurosci** 1997;247(3):120–7
Mechanical lesions of the fimbria fornix in rat brain studied by 1H–magnetic resonance imaging. Evidence for long–lasting dynamic alterations in the ipsilateral ventricular system. Dijkhuizen RM, et al. **Eur Neuropsychopharmacol** 1996 Mar;6(1):21–7
Correlation of lesions in the hippocampal region noted on MR images with clinical features. Takahashi S, et al. **Eur Radiol** 1997;7(2):281–6
Fluid percussion injury causes disruption of the septohippocampal pathway in the rat. Leonard JR, et al. **Exp Neurol** 1997 Feb;143(2):177–87
In vivo hypoxia–induced neuronal damage with an enhancement of neuronal nitric oxide synthase immunoreactivity in hippocampus. Matsuoka Y, et al. **Exp Neurol** 1997 Jul;146(1):57–66
Protective effects of peony root extract and its components on neuron damage in the hippocampus induced by the cobalt focus epilepsy model. Tsuda T, et al. **Exp Neurol** 1997 Aug;146(2):518–25
Unilateral neonatal hippocampal lesion alters septal innervation and trophism of the entorhinal cortex. van Praag H, et al. **Exp Neurol** 1996 Sep;141(1):130–40
PrP deposition, microglial activation, and neuronal apoptosis in murine scrapie. Williams A, et al. **Exp Neurol** 1997 Apr; 144(2):433–8
Hippocampal loss of tenascin boundaries in Ammon's horn sclerosis. Scheffler B, et al. **Glia** 1997 Jan;19(1):35–46
Chronic alcohol consumption does not cause hippocampal neuron loss in humans. Harding AJ, et al. **Hippocampus** 1997;7(1):78–87
Deep prepiriform cortex modulates neuronal cell death in global ischemia. Kawaguchi K, et al. **J Cereb Blood Flow Metab** 1997 Mar;17(3):356–60
Interleukin–1 mediates induction of tolerance to global ischemia in gerbil hippocampal CA1 neurons. Ohtsuki T, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1137–42
DNA fragmentation follows delayed neuronal death in CA1 neurons exposed to transient global ischemia in the rat. Petito CK, et al. **J Cereb Blood Flow Metab** 1997 Sep; 17(9):967–76
Editing of GluR2 RNA in the gerbil hippocampus after global cerebral ischemia. Rump A, et al. **J Cereb Blood Flow Metab** 1996 Nov;16(6):1362–5
Oxidative stress in sudden infant death syndrome. Huggle S, et al. **J Child Neurol** 1996 Nov;11(6):433–8
Fragile–X: neuropsychological test performance, CGG triplet repeat lengths, and hippocampal volumes. Jäkälä P, et al. **J Clin Invest** 1997 Jul 15;100(2):331–8
Early effects of iodine deficiency on radial glial cells of the hippocampus of the rat fetus. A model of neurological cretinism. Martínez–Galán JR, et al. **J Clin Invest** 1997 Jun 1;99(11):2701–9
Volume and number of neurons of the human hippocampal formation in normal aging and Alzheimer's disease. Simić G, et al. **J Comp Neurol** 1997 Mar 24;379(4):482–94
Mechanisms underlying the neuropathological consequences of epileptic activity in the rat hippocampus in vitro. Thompson SM, et al. **J Comp Neurol** 1996 Sep 2; 372(4):515–28
Tumor necrosis factor–alpha contributes to apoptosis in hippocampal neurons during experimental group B streptococcal meningitis. Bogdan I, et al. **J Infect Dis** 1997 Sep;176(3):693–7
Attenuation of beta–amyloid neurotoxicity in vitro by potassium–induced depolarization. Pike CJ, et al. **J Neurochem** 1996 Oct;67(4):1774–7
Medial temporal lobe heterotopia as a cause of increased hippocampal and amygdaloid MRI volumes. Watson C, et al. **J Neuroimaging** 1996 Oct;6(4):231–4
Asymmetric hippocampal atrophy and extra–hippocampal epilepsy following refractory status epilepticus in an adult. Chee MW, et al. **J Neurol Sci** 1997 Apr 15;147(2):203–4
Hippocampal pathology in diffuse Lewy body disease using ubiquitin immunohistochemistry. Iseki E, et al. **J Neurol Sci** 1997 Aug;149(2):165–9
Alzheimer's disease, Lewy body disease and aging: a comparative study of the perforant pathway. Lippa CF, et al. **J Neurol Sci** 1997 Apr 15;147(2):161–6
Relationships between regional neuronal loss and neurofibrillary changes in the hippocampal formation and duration and severity of Alzheimer disease. Bobinski M, et al. **J Neuropathol Exp Neurol** 1997 Apr;56(4):414–20
Microglial cell activation in aging and Alzheimer disease: partial linkage with neurofibrillary tangle burden in the hippocampus. DiPatre PL, et al. **J Neuropathol Exp Neurol** 1997 Feb;56(2):143–9
APPSw transgenic mice develop age–related A beta deposits and neuropil abnormalities, but no neuronal loss in CA1. Irizarry MC, et al. **J Neuropathol Exp Neurol** 1997 Sep; 56(9):965–73
Human fascia dentata anatomy and hippocampal neuron densities differ depending on the epileptic syndrome and age at first seizure. Mathern GW, et al. **J Neuropathol Exp Neurol** 1997 Feb;56(2):199–212
Characterization of diffuse axonal pathology and selective hippocampal damage following inertial brain trauma in the pig. Smith DH, et al. **J Neuropathol Exp Neurol** 1997 Jul; 56(7):822–34
Disproportionate loss of CA4 parvalbumin–immunoreactive interneurons in patients with Ammon's horn sclerosis. Zhu ZQ, et al. **J Neuropathol Exp Neurol** 1997 Sep;56(9):988–98
Three cases of enduring memory impairment after bilateral damage limited to the hippocampal formation. Rempel–Clower NL, et al. **J Neurosci** 1996 Aug 15; 16(16):5233–55
Widespread peroxynitrite–mediated damage in Alzheimer's disease. Smith MA, et al. **J Neurosci** 1997 Apr 15; 17(8):2653–7
Absence of p75NTR causes increased basal forebrain cholinergic neuron size, choline acetyltransferase activity, and target innervation. Yeo TT, et al. **J Neurosci** 1997 Oct 15;17(20):7594–605
Continuous monitoring and regulating of brain temperature in the conscious and freely moving ischemic gerbil: effect of MK–801 on delayed neuronal death in hippocampal CA1. Zhang L, et al. **J Neurosci Res** 1997 Feb 15; 47(4):440–8
Early neuropathologic effects of mild or moderate hypoxemia after controlled cortical impact injury in rats. Clark RS, et al. **J Neurotrauma** 1997 Apr;14(4):179–89
Neuroprotective effect of YM90K, an AMPA–receptor antagonist, against delayed neuronal death induced by transient global cerebral ischemia in gerbils and rats. Kawasaki–Yatsugi S, et al. **Jpn J Pharmacol** 1997 Jul; 74(3):253–60
Effect of immunosuppressant FK506 on ischemia–induced degeneration of hippocampal neurons in gerbils. Yagita Y, et al. **Life Sci** 1996;59(19):1643–50
Age–related morphological changes in the hippocampus in two mouse strains. Barkats M, et al. **Mech Ageing Dev** 1996 Jun 25;87(3):155–64
The hippocampus: a "working memory" structure? The effect of hippocampal sclerosis on working memory. Cowey CM, et al. **Memory** 1996 Jan;4(1):19–30
Effect of trophic factors on delayed neuronal death induced by in vitro ischemia in cultivated hippocampal and cortical neurons. Kusumoto M, et al. **Metab Brain Dis** 1997 Jun; 12(2):113–20
Modeling neuronal degeneration in the rodent hippocampus: an approach for studying degenerative neuropathology in dementia. Miguel–Hidalgo JJ, et al. **Methods Find Exp Clin Pharmacol** 1997 Mar;19(2):133–42 (63 ref.)
Hippocampal damage and cytoskeletal disruption resulting from impaired energy metabolism. Implications for Alzheimer disease. Geddes JW, et al. **Mol Chem Neuropathol** 1996 May–Aug;28(1–3):65–74
Granule cell mRNA levels for BDNF, NGF, and NT–3 correlate with neuron losses or supragranular mossy fiber sprouting in the chronically damaged and epileptic human hippocampus. Mathern GW, et al. **Mol Chem Neuropathol** 1997 Jan–Feb;30(1–2):53–76
Hippocampal atrophy in major depression: a result of depression–induced neurotoxicity? [news] Sheline YI. **Mol Psychiatry** 1996 Sep;1(4):298–9
On the relationship between measles virus and Alzheimer neurofibrillary tangles in subacute sclerosing panencephalitis. Bancher C, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):527–33
Specific hippocampal volume reductions in individuals at risk for Alzheimer's disease. Convit A, et al. **Neurobiol Aging** 1997 Mar–Apr;18(2):131–8
Frequency of hippocampal formation atrophy in normal aging and Alzheimer's disease. De Leon MJ, et al. **Neurobiol Aging** 1997 Jan–Feb;18(1):1–11
MR T2 relaxometry in Alzheimer's disease and age–associated memory impairment. Laakso MP, et al. **Neurobiol Aging** 1996 Jul–Aug;17(4):535–40
Topographic associations between DNA fragmentation and Alzheimer's disease neuropathology in the hippocampus. Sugaya K, et al. **Neurochem Int** 1997 Aug;31(2):275–81
Hippocampal pathology. Kido DK, et al. **Neuroimaging Clin N Am** 1997 Feb;7(1):51–65 (58 ref.)
Hyperthermia delayed by 24 hours aggravates neuronal damage in rat hippocampus following global ischemia. Baena RC, et al. **Neurology** 1997 Mar;48(3):768–73
Hippocampal sclerosis contributes to dementia in the elderly. Corey–Bloom J, et al. **Neurology** 1997 Jan;48(1):154–60
MRI–based hippocampal volumetry and T2 relaxometry: correlation to verbal memory performance in newly diagnosed epilepsy patients with left–sided temporal lobe focus. Kälviäinen R, et al. **Neurology** 1997 Jan;48(1):286–7
Volume loss of the hippocampus and temporal lobe in healthy elderly persons destined to develop dementia. Kaye JA, et al. **Neurology** 1997 May;48(5):1297–304
Surface and depth EEG findings in patients with hippocampal atrophy. King D, et al. **Neurology** 1997 May; 48(5):1363–7
11C–flumazenil PET, volumetric MRI, and quantitative pathology in mesial temporal lobe epilepsy. Koepp MJ, et al. **Neurology** 1997 Sep;49(3):764–73
Multimodality MRI in mesial temporal sclerosis: relative sensitivity and specificity. Kuzniecky RI, et al. **Neurology** 1997 Sep;49(3):774–8
Surgical treatment of patients with single and dual pathology: relevance of lesion and of hippocampal atrophy to seizure outcome. Li LM, et al. **Neurology** 1997 Feb;48(2):437–44
Etiology and early prognosis of newly diagnosed partial seizures in adults: a quantitative hippocampal MRI study. Van Paesschen W, et al. **Neurology** 1997 Sep;49(3):753–7
Correlations between the morphology of diffuse and primitive beta–amyloid (A beta) deposits and the frequency of associated cells in Down's syndrome. Armstrong RA. **Neuropathol Appl Neurobiol** 1996 Dec;22(6):527–30
Evidence for neuronal apoptosis in pontosubicular neuron necrosis. Brück Y, et al. **Neuropathol Appl Neurobiol** 1996 Feb;22(1):23–9
Hyperbaric oxygenation prevents delayed neuronal death following transient ischaemia in the gerbil hippocampus. Konda A, et al. **Neuropathol Appl Neurobiol** 1996 Aug; 22(4):350–60
Atrophy of the hippocampus, parietal cortex, and insula in Alzheimer's disease: a volumetric magnetic resonance imaging study. Foundas AL, et al. **Neuropsychiatry Neuropsychol Behav Neurol** 1997 Apr; 10(2):81–9
Three dimensional image reconstruction of neuroanatomical structures: methods for isolation of the cortex, ventricular system, hippocampus, and fornix. Hopkins RO, et al. **Neuropsychol Rev** 1997 Jun;7(2):87–104
Hippocampal sclerosis and verbal encoding ability following anterior temporal lobectomy. Seidenberg M, et al. **Neuropsychologia** 1996 Jul;34(7):699–708
Cognitive effects of neonatal hippocampal lesions in a rat model of schizophrenia. Chambers RA, et al. **Neuropsychopharmacology** 1996 Dec;15(6):587–94
Post–ischaemic treatment with orotic acid prevents neuronal injury in gerbil brain ischaemia. Akiho H, et al. **Neuroreport** 1997 Feb 10;8(3):607–10
The effects of hyper– and hypocarbia on intraparenchymal arterioles in rat brain slices. Harkin CP, et al. **Neuroreport** 1997 May 27;8(8):1841–4
Effect of hypothermia on microglial reaction in ischemic brain. Kumar K, et al. **Neuroreport** 1997 Mar 3;8(4):947–50
Amyloid beta–induced neurotoxicity is associated with phospholipase D activation in cultured rat hippocampal cells. Cox DA, et al. **Neurosci Lett** 1997 Jun 20;229(1):37–40
Nitric oxide inhibitors attenuate ischemic degeneration in the CA1 region of rat hippocampal slices. Izumi Y, et al. **Neurosci Lett** 1996 Jun 7;210(3):157–60
Hippocampal atrophy secondary to entorhinal cortical degeneration in Alzheimer–type dementia. Mizutani T, et al. **Neurosci Lett** 1997 Jan 31;222(2):119–22
Lack of association of the apoE4 allele with hippocampal sclerosis dementia. Troncoso JC, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):138–40
Protection of ischemic hippocampal neurons by ginsenoside Rb1, a main ingredient of ginseng root. Lim JH, et al. **Neurosci Res** 1997 Jul;28(3):191–200
N–methyl–D–aspartate and non–N–methyl–D–aspartate receptors mediate seizures and CA1 hippocampal damage induced by dendrotoxin–K in rats. Bagetta G, et al. **Neuroscience** 1996 Apr;71(3):613–24
gp120, a human immunodeficiency virus–1 coat protein, augments excitotoxic hippocampal injury in perinatal rats. Barks JD, et al. **Neuroscience** 1997 Jan;76(2):397–409
Parvalbumin–immunoreactive neurons in the hippocampal formation of Alzheimer's diseased brain. Brady DR, et al. **Neuroscience** 1997 Oct;80(4):1113–25
Motor and cognitive deficits in apolipoprotein E–deficient mice after closed head injury. Chen Y, et al. **Neuroscience** 1997 Oct;80(4):1255–62

Increased vulnerability of septal cholinergic neurons to partial loss of target neurons in aged rats. Cooper JD, et al. **Neuroscience** 1996 Nov;75(1):29–35

Calcium currents in pyramidal CA1 neurons in vitro after kindling epileptogenesis in the hippocampus of the rat. Faas GC, et al. **Neuroscience** 1996 Nov;75(1):57–67

Apoptosis mediates cell death following traumatic injury in rat hippocampal neurons. Shah PT, et al. **Neuroscience** 1997 Aug;79(4):999–1004

Domoic acid: neurobehavioral and neurohistological effects of low-dose exposure in adult rats. Sobotka TJ, et al. **Neurotoxicol Teratol** 1996 Nov–Dec;18(6):659–70

Ortho-substituted 2,2',3,5',6-pentachlorobiphenyl (PCB 95) alters rat hippocampal ryanodine receptors and neuroplasticity in vitro: evidence for altered hippocampal function. Wong PW, et al. **Neurotoxicology** 1997; 18(2):443–56

Temporal lobe pathology in epilepsy: proton magnetic resonance spectroscopy and positron emission tomography study. Holopainen IE, et al. **Pediatr Neurol** 1997 Feb; 16(2):98–104

Correlation between hippocampal neuronal damage and spatial learning deficit due to global ischemia. Block F, et al. **Pharmacol Biochem Behav** 1997 Apr;56(4):755–61

Diazepam--its effects on the development of pentylenetetrazol kindling, related learning impairments, and neuronal cell loss. Becker A, et al. **Pharmacol Res** 1997 Jan;35(1):27–32

Genetic determinants of susceptibility to excitotoxic cell death: implications for gene targeting approaches. Schauwecker PE, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4103–8

Blockade of metabotropic glutamate receptors protects hippocampal neurons from hypoxia-induced cell death in rat in vivo. Riedel G, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Oct; 20(7):1253–63

Immunohistochemical examination of phosphorylated tau in granulovacuolar degeneration granules. Ikegami K, et al. **Psychiatry Clin Neurosci** 1996 Jun;50(3):137–40

Reliability and validity of MRI measurement of the amygdala and hippocampus in children with fragile X syndrome. Kates WR, et al. **Psychiatry Res** 1997 Aug 8;75(1):31–48

Hippocampal volume in women victimized by childhood sexual abuse. Stein MB, et al. **Psychol Med** 1997 Jul; 27(4):951–9

The hippocampus in schizophrenia: lateralized increase in neuronal density and altered cytoarchitectural asymmetry. Zaidel DW, et al. **Psychol Med** 1997 May;27(3):703–13

Hippocampal transverse relaxation times in patients with Alzheimer disease. Campeau NG, et al. **Radiology** 1997 Oct; 205(1):197–201

Regional zinc staining in postmortem hippocampus from schizophrenic patients. Adams CE, et al. **Schizophr Res** 1995 Dec;18(1):71–7

Stress and glucocorticoid [letter; comment] Yehuda R. **Science** 1997 Mar 14;275(5306):1662–3. Comment on: Science 1996 Aug 9;273(5276):749–50.

Degree of left hippocampal atrophy correlates with severity of neuropsychological deficits. Kilpatrick C, et al. **Seizure** 1997 Jun;6(3):213–8

Protection with lubeluzole against delayed ischemic brain damage in rats. A quantitative histopathologic study. Haseldonckx M, et al. **Stroke** 1997 Feb;28(2):428–32

Overexpression of CuZn-superoxide dismutase reduces hippocampal injury after global ischemia in transgenic mice. Murakami K, et al. **Stroke** 1997 Sep;28(9):1797–804

[Kindling induced mossy fiber sprouting has no functional significance in developing seizure discharges in rats] Ohata H, et al. **Nippon Ika Daigaku Zasshi** 1997 Apr;64(2):154–62 (Eng. Abstr.) **(Jpn)**

[Neuropathological study on progression of the limbic degeneration in senile dementia of Alzheimer type] Kasahara M, et al. **No To Shinkei** 1997 Jan;49(1):51–8 (Eng. Abstr.) **(Jpn)**

PHYSIOLOGY

Spatial organization of receptive fields of cat's. Hippocampal visually driven neurones. Harutiunian-Kozak BA, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(4):873–80

Prolonged treatment with antidepressants increases the 5-HT1A-mediated inhibition of hippocampal neurons without changing the 5-HT1A receptor binding. Tokarski K, et al. **Acta Physiol Hung** 1996;84(3):343–4

Metabotropic glutamate receptors in hippocampal long-term potentiation and learning and memory. Riedel G, et al. **Acta Physiol Scand** 1996 May;157(1):1–19 (125 ref.)

The role of microenvironment in axonal regeneration. Influences of lesion-induced changes and glial implants on the regeneration of the postcommissural fornix. Stichel-Gunkel CC. **Adv Anat Embryol Cell Biol** 1997; 137:I–VII, 1–81 (355 ref.)

A new neuromodulatory action of taurine: long-lasting increase of synaptic potentials. Galarreta M, et al. **Adv Exp Med Biol** 1996;403:463–71

The functional significance of lesion-induced plasticity of the hippocampal formation. Ramirez JJ. **Adv Neurol** 1997; 73:61–82 (154 ref.)

TXA2 agonists inhibit high-voltage-activated calcium channels in rat hippocampal CA1 neurons. Hsu KS, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):C1269–77

Acute administration of a tryptophan-free amino acid mixture decreases 5-HT release in rat hippocampus in vivo. Stancampiano R, et al. **Am J Physiol** 1997 Mar;272(3 Pt 2):R991–4

Cutaneous vasoconstriction in conscious rabbits during alerting responses detected by hippocampal theta-rhythm. Yu YH, et al. **Am J Physiol** 1997 Jan;272(1 Pt 2):R208–16

Survival, regeneration and sprouting of central neurons: the rat septohippocampal projection as a model. Frotscher M, et al. **Anat Anz** 1996 Aug;178(4):311–5 (33 ref.)

Metabotropic glutamate response in acutely dissociated hippocampal CA3 neurons of the rat. Harata N, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:511–4

Inhibitory effect of methylxanthines on glycine-induced Cl current in dissociated rat hippocampal neurons. Kawa K, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:449–53

Diversity of glutamate receptor subtypes responsible for increase in [Ca2+]i in hippocampal cells. Kudo Y, et al. **Ann N Y Acad Sci** 1993 Dec 20;707:509–10

Long-term depression in hippocampus. Bear MF, et al. **Annu Rev Neurosci** 1996;19:437–62 (113 ref.)

Active properties of neuronal dendrites. Johnston D, et al. **Annu Rev Neurosci** 1996;19:165–86 (150 ref.)

Declarative memory: insights from cognitive neurobiology. Eichenbaum H. **Annu Rev Psychol** 1997;48:547–72 (120 ref.)

Psychobiological models of hippocampal function in learning and memory. Gluck MA, et al. **Annu Rev Psychol** 1997; 48:481–514 (110 ref.)

The neuroethology of cognitive maps: contributions from research on the hippocampus and homing pigeon navigation. Casini G, et al. **Arch Ital Biol** 1997 Jan; 135(1):73–92 (69 ref.)

Hippocampal electrical activity and behavior in the rabbit. Fontani G, et al. **Arch Ital Biol** 1997 Jan;135(1):49–71 (130 ref.)

Naloxone blocks long-term depression of excitatory transmission in rat CA1 hippocampus in vitro. Francesconi W, et al. **Arch Ital Biol** 1997 Jan;135(1):37–48

Dose-related impairment of spatial learning by intrahippocampal scopolamine: antagonism by ondansetron, a 5-HT3 receptor antagonist. Carli M, et al. **Behav Brain Res** 1997 Jan;82(2):185–94

Development of food-storing and the hippocampus in juvenile marsh tits (Parus palustris). Clayton NS. **Behav Brain Res** 1996 Jan;74(1–2):153–9

Food storing does not affect hippocampal volume in experienced adult willow tits. Cristol DA. **Behav Brain Res** 1996 Nov;81(1–2):233–6

Effects of aspiration lesions of hippocampus or overlying neocortex on concurrent and configural object discriminations in rats. Deacon RM, et al. **Behav Brain Res** 1996 May;77(1–2):165–74

Neurotoxic lesions of the perirhinal cortex do not mimic the behavioural effects of fornix transection in the rat. Ennaceur A, et al. **Behav Brain Res** 1996 Oct;80(1–2):9–25

Differential effects of lidocaine infusions into the ventral CA1/subiculum or the nucleus accumbens on the acquisition and retention of spatial information. Floresco SB, et al. **Behav Brain Res** 1996 Nov;81(1–2):163–71

Limbic thalamic, cingulate cortical and hippocampal neuronal correlates of discriminative approach learning in rabbits. Freeman JH Jr, et al. **Behav Brain Res** 1996 Oct; 80(1–2):123–36

Kindling of hippocampal field CA1 impairs spatial learning and retention in the Morris water maze. Gilbert TH, et al. **Behav Brain Res** 1996 Dec;82(1):57–66

Hippocampal volume in migratory and non-migratory warblers: effects of age and experience. Healy SD, et al. **Behav Brain Res** 1996 Nov;81(1–2):61–8

A comparison of the effects of two fimbria-fornix lesion techniques on beam-walking performance in the rat: aspiration versus electrolysis. Hofferer E, et al. **Behav Brain Res** 1996 Jan;74(1–2):175–80

Development of vicarious trial-and-error behavior in odor discrimination learning in the rat: relation to hippocampal function? Hu D, et al. **Behav Brain Res** 1997 Jun; 86(1):67–70

Behavioral LTP during learning in rat hippocampal CA3. Ishihara K, et al. **Behav Brain Res** 1997 Feb;83(1–2):235–8

Cognitive enhancers and hippocampal long-term potentiation in vitro. Kaneko S, et al. **Behav Brain Res** 1997 Feb; 83(1–2):45–9 (33 ref.)

Role of hippocampal serotonergic neurons in ischemic neuronal death. Nakata N, et al. **Behav Brain Res** 1997 Feb;83(1–2):217–20

Role of hippocampal 5-HT1A receptors on elevated plus maze exploration after a single restraint experience. Netto SM, et al. **Behav Brain Res** 1996 May;77(1–2):215–8

Effects of neonatal stimulation on later cognitive function and hippocampal nerve growth factor. Pham TM, et al. **Behav Brain Res** 1997 Jun;86(1):113–20

Subicular cells generate similar spatial firing patterns in two geometrically and visually distinctive environments: comparison with hippocampal place cells. Sharp PE. **Behav Brain Res** 1997 Apr;85(1):71–92

Hippocampal vulnerability to stress and aging: possible role of neurotrophic factors. Smith MA. **Behav Brain Res** 1996 Jun;78(1):25–36 (116 ref.)

Neural grafting of cholinergic neurons in the hippocampal formation. Tarricone BJ, et al. **Behav Brain Res** 1996 Jan; 74(1–2):25–44 (121 ref.)

The differences shown by C57BL/6 and DBA/2 inbred mice in detecting spatial novelty are subserved by a different hippocampal and parietal cortex interplay. Thinus-Blanc C, et al. **Behav Brain Res** 1996 Oct;80(1–2):33–40

Long-term impoverished housing effects on Morris maze performance after a fimbria lesion. van Rijzingen IM, et al. **Behav Brain Res** 1996 May;77(1–2):149–54

Neonatal hippocampal lesions induced hyperresponsiveness to amphetamine: behavioral and in vivo microdialysis studies. Wan RQ, et al. **Behav Brain Res** 1996 Aug; 78(2):211–23

Intact spatial learning in both young and aged rats following selective removal of hippocampal cholinergic input. Baxter MG, et al. **Behav Neurosci** 1996 Jun;110(3):460–7

Spatial learning and memory at defined points of the estrous cycle: effects on performance of a hippocampal-dependent task. Berry B, et al. **Behav Neurosci** 1997 Apr;111(2):267–74

Subicular lesions disrupt but do not abolish classically conditioned bradycardia in rabbits. Chachich M, et al. **Behav Neurosci** 1996 Aug;110(4):707–17

Hippocampal lesions impair contextual fear conditioning in two strains of mice. Chen C, et al. **Behav Neurosci** 1996 Oct;110(5):1177–80

Chronic stress impairs rat spatial memory on the Y maze, and this effect is blocked by tianeptine pretreatment. Conrad CD, et al. **Behav Neurosci** 1996 Dec;110(6):1321–34

Dissociable effects of selective lesions to hippocampal subsystems on exploratory behavior, contextual learning, and spatial learning. Good M, et al. **Behav Neurosci** 1997 Jun;111(3):487–93

Contextual control of conditioned responding in rats with dorsal hippocampal lesions. Hall G, et al. **Behav Neurosci** 1996 Oct;110(5):933–45

Hippocampal lesions impair memory for location but not color in passerine birds. Hampton RR, et al. **Behav Neurosci** 1996 Aug;110(4):831–5

Hippocampal place fields are altered by the removal of single visual cues in a distance-dependent manner. Hetherington PA, et al. **Behav Neurosci** 1997 Feb;111(1):20–34

The septohippocampal system is involved in prepulse inhibition of the acoustic startle response in rats. Koch M. **Behav Neurosci** 1996 Jun;110(3):468–77

Partial hippocampal kindling affects retention but not acquisition and place but not cue tasks on the radial arm maze. Leung LS, et al. **Behav Neurosci** 1996 Oct; 110(5):1017–24

Hippocampal lesions cause learning deficits in inbred mice in the Morris water maze and conditioned-fear task. Logue SF, et al. **Behav Neurosci** 1997 Feb;111(1):104–13

The effects of dorsal versus ventral hippocampal, total hippocampal, and parietal cortex lesions on memory for allocentric distance in rats. Long JM, et al. **Behav Neurosci** 1996 Oct;110(5):922–32

Executive function of the hippocampus in social behavior in the rat. Maaswinkel H, et al. **Behav Neurosci** 1997 Aug; 111(4):777–84

Hippocampal activity during classical discrimination--reversal eyeblink conditioning in rabbits. Miller DP, et al. **Behav Neurosci** 1997 Feb;111(1):70–9

Redistribution of spatial representation in the hippocampus of aged rats performing a spatial memory task. Mizumori SJ, et al. **Behav Neurosci** 1996 Oct;110(5):1006–16

Role of the hippocampus plus subjacent cortex but not amygdala in visuomotor conditional learning in rhesus monkeys. Murray EA, et al. **Behav Neurosci** 1996 Dec; 110(6):1261–70

Cortico-hippocampal representations in simultaneous odor discrimination: a computational interpretation of Eichenbaum, Mathews, and Cohen (1989). Myers CE, et al. **Behav Neurosci** 1996 Aug;110(4):685–706

Posttraining intrahippocampal estradiol injections enhance spatial memory in male rats: interaction with cholinergic systems. Packard MG, et al. **Behav Neurosci** 1996 Jun; 110(3):626–32

Stimulus configuration, occasion setting, and the hippocampus. Schmajuk NA, et al. **Behav Neurosci** 1997 Apr;111(2):235–57; appendix 258 (90 ref.)

The hippocampus and reward: effects of hippocampal lesions on progressive-ratio responding. Schmelzeis MC, et al. **Behav Neurosci** 1996 Oct;110(5):1049–66

Hippocampal glycogen metabolism, EEG, and behavior. Uecker A, et al. **Behav Neurosci** 1997 Apr;111(2):283–91

Spatial and nonspatial learning across the rat estrous cycle. Warren SG, et al. **Behav Neurosci** 1997 Apr;111(2):259–66

A comparison of temporal decay in place memory tasks in rats (Rattus norvegicus) with lesions affecting thalamus, frontal cortex, or the hippocampal system. Young HL, et al. **Behav Neurosci** 1996 Dec;110(6):1244–60

Extremely-low-frequency magnetic fields disrupt rhythmic slow activity in rat hippocampal slices. Bawin SM, et al. **Bioelectromagnetics** 1996;17(5):388–95

Sensory gating in a computer model of the CA3 neural network of the hippocampus. Flach KA, et al. **Biol Psychiatry** 1996 Dec 15;40(12):1230–45

Detection of spontaneous synaptic events with an optimally scaled template. Clements JD, et al. **Biophys J** 1997 Jul; 73(1):220–9

Modeling the attenuation and failure of action potentials in the dendrites of hippocampal neurons. Migliore M. **Biophys J** 1996 Nov;71(5):2394–403

The effects of synaptic noise on measurements of evoked excitatory postsynaptic response amplitudes. Wahl LM, et al. **Biophys J** 1997 Jul;73(1):205–19

Characterisation of the role of calcium in AlF4-induced

long-term potentiation in area CA1 of rat hippocampus. Breakwell NA, et al. **Biosci Rep** 1997 Apr;17(2):209–18

NMDA receptor dependence of mGlu-mediated depression of synaptic transmission in the CA1 region of the rat hippocampus. Harvey J, et al. **Br J Pharmacol** 1996 Nov; 119(6):1239–47

Food storing and the hippocampus in Paridae. Healy SD, et al. **Brain Behav Evol** 1996;47(4):195–9

Inhibition of neuronal activity in rat hippocampal slices by Aconitum alkaloids. Ameri A, et al. **Brain Res** 1996 Oct 28;738(1):154–7

Differences in the refractory properties of two distinct inhibitory circuitries in field CA1 of the hippocampus. Arai A, et al. **Brain Res** 1995 Dec 18;704(2):298–306

Synchronization of rat hippocampal neurons in the absence of excitatory amino acid-mediated transmission. Avoli M, et al. **Brain Res** 1996 Oct 7;735(2):188–96

Behavioral and neurochemical alterations caused by diet restriction--the effect of tyrosine administration in mice. Avraham Y, et al. **Brain Res** 1996 Sep 2;732(1-2):133–44

Restoration of sensory gating of auditory evoked response by nicotine in fimbria-fornix lesioned rats. Bickford PC, et al. **Brain Res** 1995 Dec 24;705(1-2):235–40

Activation of 5-HT1B receptors suppresses low but not high frequency synaptic transmission in the rat subicular cortex in vitro. Boeijinga PH, et al. **Brain Res** 1996 May 20; 721(1-2):59–65

Innate differences in medial septal area burst firing neurons and the hippocampal theta rhythm during ambulation in selectively bred rat lines. Breen TE, et al. **Brain Res** 1996 Apr 1;714(1-2):156–64

Changes in dentate granule cell field potentials during afterdischarge initiation triggered by 5 Hz perforant path stimulation. Burdette LJ, et al. **Brain Res** 1996 May 25; 722(1-2):39–49

Enhanced phosphorylation of the postsynaptic protein kinase C substrate RC3/neurogranin during long-term potentiation. Chen SJ, et al. **Brain Res** 1997 Feb 28; 749(2):181–7

Long-lasting enhancement of synaptic excitability of CA1/subiculum neurons of the rat ventral hippocampus by vasopressin and vasopressin(4–8). Chepkova AN, et al. **Brain Res** 1995 Dec 1;701(1-2):255–66

Microelectrophoretic application of SCH-23390 into the lateral septal nucleus blocks ethanol-induced suppression of LTP, in vivo, in the adult rodent hippocampus. Criado JR, et al. **Brain Res** 1996 Apr 15;716(1-2):192–6

Opioid receptor modulation of mossy fiber synaptogenesis: independence from long-term potentiation. Escobar ML, et al. **Brain Res** 1997 Mar 21;751(2):330–5

Chlordiazepoxide improves the performance of septal lesioned but not hippocampal lesioned animals in a Morris maze. Farber HT. **Brain Res** 1996 Jul 1;725(2):257–62

Repeated administration of pentylenetetrazol alters susceptibility of rat hippocampus to primed-burst stimulation: evidence from in vitro study on CA1 of hippocampal slices. Fathollahi Y, et al. **Brain Res** 1996 Oct 28;738(1):138–41

Regulation of cerebral microvessels by glutamatergic mechanisms. Fergus A, et al. **Brain Res** 1997 Apr 18; 754(1-2):35–45

Basal expression of stress-inducible hsp70 mRNA detected in hippocampal and cortical neurons of normal rabbit brain. Foster J, et al. **Brain Res** 1996 Jun 10;724(1):73–83

Mechanism of altered synaptic strength due to experience: relation to long-term potentiation. Foster TC, et al. **Brain Res** 1996 Oct 14;736(1-2):243–50

Cholinergic deafferentation enhances rat hippocampal pyramidal neuron responsiveness to locally applied nicotine. Frazier CJ, et al. **Brain Res** 1996 Jul 15; 727(1-2):217–20

Polysynaptic potentiation in the lateral septum following stimulation of the fimbria in anesthetized rats. Garcia R, et al. **Brain Res** 1996 Oct 21;737(1-2):169–74

Estimating the synaptic concentration of norepinephrine in dentate gyrus which produces beta-receptor mediated long-lasting potentiation in vivo using microdialysis and intracerebroventricular norepinephrine. Harley CW, et al. **Brain Res** 1996 Feb 26;710(1-2):293–8

Only 'de novo' long-term depression (LTD) in the rat hippocampus in vitro is blocked by the same low concentration of FK506 that blocks LTD in the visual cortex. Hodgkiss JP, et al. **Brain Res** 1995 Dec 24; 705(1-2):241–46

Long-term potentiation in the rat hippocampal CA1 region is inhibited selectively at the acquisition stage of discriminatory avoidance learning. Izaki Y, et al. **Brain Res** 1996 Jun 3;723(1-2):162–8

Transduction of hippocampal CA1 by adenovirus in vivo. Kammesheidt A, et al. **Brain Res** 1996 Oct 14; 736(1-2):297–304

Persistent reduction of GABA(A) receptor-mediated inhibition in rat hippocampus after chronic intermittent ethanol treatment. Kang M, et al. **Brain Res** 1996 Feb 19; 709(2):221–8

Physiological evidence for hippocampal disinhibition resulting from activation of the median raphe. Kao K, et al. **Brain Res** 1997 Mar 28;752(1-2):90–8

Early and late components of AMPA-receptor mediated field potentials in hippocampal slices. Kolta A, et al. **Brain Res** 1996 Oct 21;737(1-2):133–45

Interleukin-6 inhibits long-term potentiation in rat hippocampal slices. Li AJ, et al. **Brain Res** 1997 Feb 14; 748(1-2):30–8

Role of dorsal hippocampus in acquisition, consolidation and retrieval of rat's passive avoidance response: a tetrodotoxin functional inactivation study. Lorenzini CA, et al. **Brain Res** 1996 Aug 19;730(1-2):32–9

Adenosine by activating A1 receptors prevents GABAA-mediated actions during hypoxia in the rat hippocampus. Lucchi R, et al. **Brain Res** 1996 Sep 2; 732(1-2):261–6

Involvement of the nucleus accumbens-ventral pallidal pathway in postictal behavior induced by a hippocampal afterdischarge in rats. Ma J, et al. **Brain Res** 1996 Nov 11;739(1-2):26–35

Cholinergic facilitation and inhibition of long-term potentiation of CA1 in the urethane-anaesthetized rats. Markevich V, et al. **Brain Res** 1997 Apr 18;754(1-2):95–102

Neuropeptide FF inhibition of morphine effects in the rat hippocampus. Miller KK, et al. **Brain Res** 1997 Mar 7; 750(1-2):81–6

Effect of hyperthermia on hippocampal synaptic transmission and CA3 kindling in developing rats. Minamiura Y, et al. **Brain Res** 1996 Sep 2;732(1-2):209–14

Possible involvement of plasmin in long-term potentiation of rat hippocampal slices. Mizutani A, et al. **Brain Res** 1996 Nov 11;739(1-2):276–81

Involvement of the 12-lipoxygenase pathway of arachidonic acid metabolism in homosynaptic long-term depression of the rat hippocampus. Normandin M, et al. **Brain Res** 1996 Aug 19;730(1-2):40–6

Blockade of 5-HT1A receptors compensates loss of hippocampal cholinergic neurotransmission involved in working memory of rats. Ohno M, et al. **Brain Res** 1996 Oct 14;736(1-2):180–8

The medial supramammillary nucleus, spatial learning and the frequency of hippocampal theta activity. Pan WX, et al. **Brain Res** 1997 Aug 1;764(1-2):101–8

NMDA receptor dependence of the input specific NMDA receptor-independent LTP in the hippocampal CA1 region. Pananceau M, et al. **Brain Res** 1997 Mar 28; 752(1-2):255–60

Role of adrenal steroid mineralocorticoid and glucocorticoid receptors in long-term potentiation in the CA1 field of hippocampal slices. Pavlides C, et al. **Brain Res** 1996 Nov 4;738(2):229–35

Antioxidants, mitochondrial hyperoxidation and electrical recovery after anoxia in hippocampal slices. Pérez-Pinzón MA, et al. **Brain Res** 1997 Apr 18;754(1-2):163–70

Acute alcohol blocks neurosteroid modulation of synaptic transmission and long-term potentiation in the rat hippocampal slice. Randall RD, et al. **Brain Res** 1995 Dec 1;701(1-2):238–48

Effects of reversible inactivation of the medial septal area on long-term potentiation and recurrent inhibition of hippocampal population spikes in rats. Rashidy-Pour A, et al. **Brain Res** 1996 Sep 23;734(1-2):43–8

Difference in LTP at basal and apical dendrites of CA1 pyramidal neurons in urethane-anesthetized rats. Roth LR, et al. **Brain Res** 1995 Oct 2;694(1-2):40–8

HSP70 is essential to the neuroprotective effect of heat-shock. Sato K, et al. **Brain Res** 1996 Nov 18; 740(1-2):117–23

Sodium nitroprusside stimulates noradrenaline release from rat hippocampal slices in the presence of dithiothreitol. Satoh S, et al. **Brain Res** 1996 Sep 16;733(2):167–74

Serotonin and 8-OH-DPAT reduce excitatory transmission in rat hippocampal area CA1 via reduction in presumed presynaptic Ca2+ entry. Schmitz D, et al. **Brain Res** 1995 Dec 1;701(1-2):249–54

The effects of behavioral tasks on the in vitro phosphorylation of intermediate filament subunits of rat hippocampus are mediated by CaMKII and PKA. Schröder N, et al. **Brain Res** 1997 Feb 28;749(2):275–82

The translocation and involvement of protein kinase C in mossy fiber-CA3 long-term potentiation in hippocampus of the rat brain. Son H, et al. **Brain Res** 1996 Nov 11; 739(1-2):282–92

Medial septal benzodiazepine receptors modulate hippocampal evoked responses and long-term potentiation. Stackman RW, et al. **Brain Res** 1996 Apr 22;717(1-2):12–21

The induction of homo- vs. heterosynaptic LTD in area CA1 of hippocampal slices from adult rats. Staubli UV, et al. **Brain Res** 1996 Apr 1;714(1-2):169–76

Effects of discrete kainic acid-induced hippocampal lesions on spatial and contextual learning and memory in rats. Stubley-Weatherly L, et al. **Brain Res** 1996 Apr 15; 716(1-2):29–38

Non-invasive detection of ongoing neuronal population activity in normal human hippocampus. Tesche CD. **Brain Res** 1997 Feb 21;749(1):53–60

Enhanced sympathetic neurite outgrowth on rat hippocampal tissue sections following septal lesions. Tian X, et al. **Brain Res** 1996 Jun 24;725(1):111–4

Involvement of calmodulin-dependent protein kinases-I and -IV in long-term potentiation. Tokuda M, et al. **Brain Res** 1997 Apr 25;755(1):162–6

The influence of steady magnetic fields on the mouse hippocampal evoked potentials in vitro. Trabulsi R, et al. **Brain Res** 1996 Jul 22;728(1):135–9

LTP varies across the estrous cycle: enhanced synaptic plasticity in proestrus rats. Warren SG, et al. **Brain Res** 1995 Dec 12;703(1-2):26–30

Increased proliferation of precursor cells in the adult rat brain after targeted lesioning. Weinstein DE, et al. **Brain Res** 1996 Dec 16;743(1-2):11–6

Hippocampus in delay eyeblink classical conditioning: essential for nefiracetam amelioration of learning in older rabbits. Woodruff-Pak DS, et al. **Brain Res** 1997 Feb 7; 747(2):207–18

Mechanism of colchicine impairment on learning and memory, and protective effect of CGP36742 in mice. Yu Z, et al. **Brain Res** 1997 Mar 7;750(1-2):53–8

Extensive cytotoxic lesions involving both the rhinal cortices and area TE impair recognition but spare spatial alternation in the rat. Aggleton JP, et al. **Brain Res Bull** 1997; 43(3):279–87

Importance of preoperative training and maze difficulty in task performance following hippocampal damage in the gerbil. Babcock AM, et al. **Brain Res Bull** 1997;42(6):415–9

Neonatal isolation alters LTP in freely moving juvenile rats: sex differences. Bronzino JD, et al. **Brain Res Bull** 1996; 41(3):175–83

Release of dopamine in the nucleus accumbens caused by stimulation of the subiculum in freely moving rats. Brudzynski SM, et al. **Brain Res Bull** 1997;42(4):303–8

Magnetic properties of human hippocampal tissue--evaluation of artefact and contamination sources. Dobson J, et al. **Brain Res Bull** 1996;39(4):255–9

Insights into the role of the cholinergic component of the septohippocampal pathway: what have we learned from experimental lesion studies? Hörtnagl H, et al. **Brain Res Bull** 1997;43(3):245–55 (187 ref.)

Supramammillary neural discharge patterns and hippocampal EEG. Kirk IJ. **Brain Res Bull** 1997;42(1):23–6

Space and the hippocampal formation in humans. Morris RG, et al. **Brain Res Bull** 1996;40(5–6):487–90

Effects of lesions of different parts of the septo-hippocampal system in primates on learning and retention of information acquired before or after surgery. Ridley RM, et al. **Brain Res Bull** 1996;40(1):21–32

Functional transitions between epileptiform-like activity and associative memory in hippocampal region CA3. Wallenstein GV, et al. **Brain Res Bull** 1997;43(5):485–93

Non-invasive detection of neuronal population activity in human hippocampus. Tesche CD, et al. **Brain Res Cogn Brain Res** 1996 Jul;4(1):39–47

Developmental profile of messenger RNA for the corticotropin-releasing hormone receptor in the rat limbic system. Avishai-Eliner S, et al. **Brain Res Dev Brain Res** 1996 Feb 26;91(2):159–63

Developmental profile of NGF immunoreactivity in the rat brain: a possible role of NGF in the establishment of cholinergic terminal fields in the hippocampus and cortex. Conner JM, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1-2):67–79

Early molecular specification in the hippocampal rudiment: isolation of genes expressed in a region-specific manner in the embryonic telencephalon. Hatanaka Y. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):65–73

Development of HVA and LVA calcium currents in pyramidal CA1 neurons in the hippocampus of the rat. Kortekaas P, et al. **Brain Res Dev Brain Res** 1997 Jul 18; 101(1-2):139–47

Reinnervation of stratum lucidum by hippocampal mossy fibers is developmentally regulated. Nguyen LB, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):184–93

Functional coupling of the nociceptin/orphanin FQ receptor with the G-protein-activated K+ (GIRK) channel. Ikeda K, et al. **Brain Res Mol Brain Res** 1997 Apr;45(1):117–26

Selective role for trkB neurotrophin receptors in rapid modulation of hippocampal synaptic transmission. Levine ES, et al. **Brain Res Mol Brain Res** 1996 Jun;38(2):300–3

Distinctions between hippocampus of mouse and rat: protein F1/GAP-43 gene expression, promoter activity, and spatial memory. McNamara RK, et al. **Brain Res Mol Brain Res** 1996 Sep 1;40(2):177–87

Correlation between concomitant theta waves in nucleus reticularis pontis oralis and in hippocampus, thalamus and neocortex during dreaming in rats. Simões CA, et al. **Braz J Med Biol Res** 1996 Dec;29(12):1645–50

Functions for interneuronal nets in the hippocampus. Buzsáki G. **Can J Physiol Pharmacol** 1997 May;75(5):508–15 (72 ref.)

Synaptic plasticity in hippocampal interneurons? A commentary. McBain CJ, et al. **Can J Physiol Pharmacol** 1997 May;75(5):488–94 (47 ref.)

Do GABAA and GABAB inhibitory postsynaptic responses originate from distinct interneurons in the hippocampus? Nurse S, et al. **Can J Physiol Pharmacol** 1997 May; 75(5):520–5 (59 ref.)

Properties of spontaneous miniature GABAA receptor mediated synaptic currents in area CA3 of rat hippocampal slice cultures. Thompson SM, et al. **Can J Physiol Pharmacol** 1997 May;75(5):495–9

Tetanus-induced potentiation of inhibitory postsynaptic potentials in hippocampal CA1 neurons. Xie Z, et al. **Can J Physiol Pharmacol** 1995 Dec;73(12):1706–13

CREB phosphorylation and dephosphorylation: a Ca(2+)- and stimulus duration-dependent switch for hippocampal gene expression. Bito H, et al. **Cell** 1996 Dec 27; 87(7):1203–14

Impaired hippocampal representation of space in CA1-specific NMDAR1 knockout mice [see comments] McHugh TJ, et al. **Cell** 1996 Dec 27;87(7):1339–49.

Comment in: Cell 1996 Dec 27;87(7):1147–8.

Mice expressing activated CaMKII lack low frequency LTP and do not form stable place cells in the CA1 region of the hippocampus [see comments] Rotenberg A, et al. **Cell** 1996 Dec 27;87(7):1351–61. Comment in: Cell 1996 Dec 27;87(7):1147–8.

Spatial learning and memory: the beginning of a dream [comment] Stevens CF. **Cell** 1996 Dec 27;87(7):1147–8 (10 ref.). Comment on: Cell 1996 Dec 27;87(7):1317–26. Comment on: Cell 1996 Dec 27;87(7):1327–38. Comment on: Cell 1996 Dec 27;87(7):1339–49. Comment on: Cell 1996 Dec 27;87(7):1351–61.

Subregion- and cell type–restricted gene knockout in mouse brain [see comments] Tsien JZ, et al. **Cell** 1996 Dec 27; 87(7):1317–26. Comment in: Cell 1996 Dec 27;87(7):1147–8.

The essential role of hippocampal CA1 NMDA receptor–dependent synaptic plasticity in spatial memory [see comments] Tsien JZ, et al. **Cell** 1996 Dec 27; 87(7):1327–38. Comment in: Cell 1996 Dec 27;87(7):1147–8.

Gonadal and adrenal steroids regulate neurochemical and structural plasticity of the hippocampus via cellular mechanisms involving NMDA receptors. McEwen BS. **Cell Mol Neurobiol** 1996 Apr;16(2):103–16 (75 ref.)

Time course and involvement of protein kinase C-mediated phosphorylation of F1/GAP–43 in area CA3 after mossy fiber stimulation. Son H, et al. **Cell Mol Neurobiol** 1997 Apr;17(2):171–94

The alvear pathway of the rat hippocampus. Deller T, et al. **Cell Tissue Res** 1996 Dec;286(3):293–303

The parahippocampus subserves topographical learning in man. Aguirre GK, et al. **Cereb Cortex** 1996 Nov–Dec; 6(6):823–9

Multiple spatial/behavioral correlates for cells in the rat postsubiculum: multiple regression analysis and comparison to other hippocampal areas. Sharp PE. **Cereb Cortex** 1996 Mar–Apr;6(2):238–59

Enhanced hippocampal corticotropin–releasing factor gene expression associated with memory consolidation and memory storage in rats. Lee EH, et al. **Chin J Physiol** 1996; 39(3):197–203

Dopamine-induced ionic currents in acutely dissociated rat neurons of CNS. Wu J, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):23–7

Effect of desipramine on spontaneous activity of hippocampal CA1 neuron after transient cerebral ischemia in rats. Zhu ZT, et al. **Chung Kuo Yao Li Hsueh Pao** 1996 Jan;17(1):35–8

The hippocampus, long-term potentiation and memory. Redman S. **Clin Exp Pharmacol Physiol** 1996 Oct–Nov; 23(10–11):961–4 (29 ref.)

Glial endothelin/nitric oxide system participates in hippocampus CA1 neuronal death of SHRSP following transient forebrain ischaemia. Yamashita K, et al. **Clin Exp Pharmacol Physiol Suppl** 1995;1:S277–8

The effects of human hippocampal resection on the serial position curve. Hermann BP, et al. **Cortex** 1996 Jun; 32(2):323–34

Evidence for a specific information processing deficit in monkeys with lesions of the septo–hippocampal system. Ridley RM, et al. **Cortex** 1997 Mar;33(1):167–76

Bibliography. Current world literature. Cognitive neuroscience. **Curr Opin Neurobiol** 1997 Apr;7(2):291–304

Is the rodent hippocampus just for 'place'? Eichenbaum H. **Curr Opin Neurobiol** 1996 Apr;6(2):187–95 (69 ref.)

Head direction cells: properties and functional significance. Muller RU, et al. **Curr Opin Neurobiol** 1996 Apr; 6(2):196–206 (40 ref.)

Memory consolidation, retrograde amnesia and the hippocampal complex. Nadel L, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):217–27 (88 ref.)

Memory beyond the hippocampus. Tulving E, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):209–16 (103 ref.)

Hippocampal lesions and path integration. Whishaw IQ, et al. **Curr Opin Neurobiol** 1997 Apr;7(2):228–34 (64 ref.)

Induction of burst–suppression and activation of epileptiform activity after methohexital and selective amygdalo–hippocampectomy. Wennberg R, et al. **Electroencephalogr Clin Neurophysiol** 1997 May; 102(5):443–51

Bilateral hippocampal sclerosis and secondary epileptogenesis. Meencke HJ, et al. **Epilepsy Res Suppl** 1996;12:335–42

Quantitative autoradiographic analysis of the [3H]muscimol binding in the kindled rat hippocampus: time–dependent and regional specific changes. Titulaer MN, et al. **Epilepsy Res Suppl** 1996;12:265–73

Hippocampal lesions cause forgetting in a spatial response task. Baylis GC, et al. **Eur J Neurosci** 1996 May;8(5):853–60

Relationship between GAP–43 expression in the dentate gyrus and synaptic reorganization of hippocampal mossy fibres in rats treated with kainic acid. Bendotti C, et al. **Eur J Neurosci** 1997 Jan;9(1):93–101

Stimulation of the ventral subiculum of the hippocampus evokes glutamate receptor–mediated changes in dopamine efflux in the rat nucleus accumbens. Blaha CD, et al. **Eur J Neurosci** 1997 May;9(5):902–11

Interneuron–specific Ca2+ responses linked to metabotropic and ionotropic glutamate receptors in rat hippocampal slices. Carmant L, et al. **Eur J Neurosci** 1997 Aug; 9(8):1625–35

Cholinergic modulation of the action potential in rat hippocampal neurons. Figenschou A, et al. **Eur J Neurosci** 1996 Jan;8(1):211–9

Fluorescent dye prelabelled microglial cells migrate into organotypic hippocampal slice cultures and ramify. Hailer NP, et al. **Eur J Neurosci** 1997 Apr;9(4):863–6

Sequential role of hippocampus and amygdala, entorhinal cortex and parietal cortex in formation and retrieval of memory for inhibitory avoidance in rats. Izquierdo I, et al. **Eur J Neurosci** 1997 Apr;9(4):786–93

Autocrine–paracrine regulation of hippocampal neuron survival by IGF–1 and the neurotrophins BDNF, NT–3 and NT–4. Lindholm D, et al. **Eur J Neurosci** 1996 Jul; 8(7):1452–60

Cable properties of dendrites in hippocampal neurons of the rat mapped by a voltage–sensitive dye. Meyer E, et al. **Eur J Neurosci** 1997 Apr;9(4):778–85

Short- and long–term plasticity of the hippocampus to nucleus accumbens and prefrontal cortex pathways in the rat, in vivo. Mulder AB, et al. **Eur J Neurosci** 1997 Aug; 9(8):1603–11

Age–related changes in excitability and recurrent inhibition in the rat CA1 hippocampal region. Papatheodoropoulos C, et al. **Eur J Neurosci** 1996 Mar;8(3):510–20

Basolateral amygdala lesions block the memory–enhancing effect of glucocorticoid administration in the dorsal hippocampus of rats. Roozendaal B, et al. **Eur J Neurosci** 1997 Jan;9(1):76–83

Nociceptin/orphanin FQ microinjected into hippocampus impairs spatial learning in rats. Sandin J, et al. **Eur J Neurosci** 1997 Jan;9(1):194–7

Interneurons in the hippocampal dentate gyrus: an in vivo intracellular study. Sik A, et al. **Eur J Neurosci** 1997 Mar; 9(3):573–88

Effects of high helium pressure on intracellular and field potential responses in the CA1 region of the in vitro rat hippocampus. Southan AP, et al. **Eur J Neurosci** 1996 Dec; 8(12):2571–81

The effects of lesions to the mammillary region and the hippocampus on conditional associative learning by rats. Sziklas V, et al. **Eur J Neurosci** 1996 Jan;8(1):106–15

Copper modulation of NMDA responses in mouse and rat cultured hippocampal neurons. Vlachová V, et al. **Eur J Neurosci** 1996 Nov;8(11):2257–64

Synaptic plasticity in dissociated hippocampal cultures: pre– and postsynaptic contributions. Vogt K, et al. **Eur J Neurosci** 1997 May;9(5):1078–82

Activity–dependent decay of early LTP revealed by dual EPSP recording in hippocampal slices from young rats. Xiao MY, et al. **Eur J Neurosci** 1996 Sep;8(9):1916–23

The anxiolytic–like effect of metabotropic glutamate receptor antagonists after intrahippocampal injection in rats. Chojnacka–Wójcik E, et al. **Eur J Pharmacol** 1997 Jan 29; 319(2–3):153–6

Interactions between arachidonic acid and metabotropic glutamate receptors in the induction of synaptic potentiation in the rat hippocampal slice. Collins DR, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):147–54

Losigamone decreases spontaneous synaptic activity in cultured hippocampal neurons. Draguhn A, et al. **Eur J Pharmacol** 1997 May 1;325(2–3):245–51

Tolbutamide blocks Ca(2+)– and voltage–dependent K+ currents of hippocampal Ca1 neurons. Erdemli G, et al. **Eur J Pharmacol** 1996 May 23;304(1–3):37–47

The contribution of adenosine to paired–pulse inhibition in the normal and disinhibited hippocampal slice. Higgins MJ, et al. **Eur J Pharmacol** 1996 Dec 19;317(2–3):215–23

Class I mGlu receptor antagonist 1–aminoindan–1,5–dicarboxylic acid blocks contextual but not cue conditioning in rats. Nielsen KS, et al. **Eur J Pharmacol** 1997 May 20;326(2–3):105–8

D–cycloserine, a glycine site agonist, reverses working memory failure by hippocampal muscarinic receptor blockade in rats. Ohno M, et al. **Eur J Pharmacol** 1996 Dec 30;318(2–3):267–71

Rapid dendritic Ca2+ influx is associated with induction of homosynaptic long–term depression in adult rat hippocampus. Otani S, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):R5–6

Fast desensitizing kainate–gated current resolved in whole–cell experiments on isolated rat hippocampal neurons. Pidoplichko VI, et al. **Eur J Pharmacol** 1996 May 6;303(1–2):145–9

The differential antagonism by bicuculline and SR95531 of pentobarbitone–induced currents in cultured hippocampal neurons. Uchida I, et al. **Eur J Pharmacol** 1996 Jun 20; 307(1):89–96

Redox modulation of synaptic responses and plasticity in rat CA1 hippocampal neurons. Bernard CL, et al. **Exp Brain Res** 1997 Feb;113(2):343–52

Intracellular recordings from medial septal neurons during hippocampal theta rhythm. Brazhnik ES, et al. **Exp Brain Res** 1997 May;114(3):442–53

Attenuation of high–voltage–activated Ca2+ current run–down in rat hippocampal CA1 pyramidal cells by NaF. Breakwell NA, et al. **Exp Brain Res** 1995;106(3):505–8

Contribution of single–unit spike waveform changes to temperature–induced alterations in hippocampal population spikes. Erickson CA, et al. **Exp Brain Res** 1996; 107(3):348–60

The long–term suppressive effect of prior activation of synaptic inputs by low–frequency stimulation on induction of long–term potentiation in CA1 neurons of guinea pig hippocampal slices. Fujii S, et al. **Exp Brain Res** 1996 Oct; 111(3):305–12

The output of the hippocampus is inhibited during social behavior in the male rat. Garritano J, et al. **Exp Brain Res** 1996 Sep;111(1):35–40

The projections of the retrorubral field A8 to the hippocampal formation in the rat. Gasbarri A, et al. **Exp Brain Res** 1996 Nov;112(2):244–52

Place– and behavior–independent sensory triggered discharges in rat hippocampal CA1 complex spike cells. Korshunov VA, et al. **Exp Brain Res** 1996 Apr; 109(1):169–73

Repetitive firing and oscillatory activity of pyramidal–like bursting neurons in the rat subiculum. Mattia D, et al. **Exp Brain Res** 1997 May;114(3):507–17

Firing of inferior colliculus auditory neurons is phase–locked to the hippocampus theta rhythm during paradoxical sleep and waking. Pedemonte M, et al. **Exp Brain Res** 1996 Nov; 112(1):41–6

Learning impairment induced by lesion of the CA1 field of the primate hippocampus: attempts to ameliorate the impairment by transplantation of fetal CA1 tissue. Ridley RM, et al. **Exp Brain Res** 1997 Jun;115(1):83–94

Changes in hippocampal cell discharge patterns and theta rhythm spectral properties as a function of walking velocity in the guinea pig. Rivas J, et al. **Exp Brain Res** 1996 Feb; 108(1):113–8

Behavioral effects of GM1 ganglioside treatment and intrahippocampal septal grafts in rats with fimbria–fornix lesions. Roeser C, et al. **Exp Brain Res** 1997 Jul; 115(3):520–30

Activation of the hippocampal formation by vestibular stimulation: a functional magnetic resonance imaging study. Vitte E, et al. **Exp Brain Res** 1996 Dec;112(3):523–6

Cytotoxic lesions of the retrohippocampal region attenuate latent inhibition but spare the partial reinforcement extinction effect. Yee BK, et al. **Exp Brain Res** 1997 Jun; 115(2):247–56

Inhibitors of protein kinases abolish ECM–mediated promotion of neuronal polarity. Lochter A, et al. **Exp Cell Res** 1997 Aug 25;235(1):124–9

Novel differentially expressed genes induced by kainic acid in hippocampus: putative molecular effectors of plasticity and injury. Pázmán C, et al. **Exp Neurol** 1997 Aug; 146(2):502–12

The role of NGF and afferent denervation in the process of sympathetic fiber ingrowth into the hippocampal formation. Scalapino K, et al. **Exp Neurol** 1996 Oct; 141(2):310–7

Dendritic remodeling of dentate granule cells following a combined entorhinal cortex/fimbria fornix lesion. Schauwecker PE, et al. **Exp Neurol** 1996 Sep;141(1):145–53

Colchicine affects protein kinase C–induced modulation of synaptic transmission in cultured hippocampal pyramidal cells. Bouron A. **FEBS Lett** 1997 Mar 10;404(2–3):221–6

Identified glial cells in the early postnatal mouse hippocampus display different types of Ca2+ currents. Akopian G, et al. **Glia** 1996 Jul;17(3):181–94

Induction and reversal of long–term potentiation by repeated high–frequency stimulation in rat hippocampal slices. Abraham WC, et al. **Hippocampus** 1997;7(2):137–45

Stimulus–dependent induction of long–term potentiation in CA1 area of the hippocampus: experiment and model. Aihara T, et al. **Hippocampus** 1997;7(4):416–26

Dendritic electrogenesis in rat hippocampal CA1 pyramidal neurons: functional aspects of Na+ and Ca2+ currents in apical dendrites. Andreasen M, et al. **Hippocampus** 1996; 6(1):79–95

Pyramidal cells and stratum lacunosum–moleculare interneurons in the CA1 hippocampal region share a GABAergic spontaneous input. Atzori M. **Hippocampus** 1996;6(1):72–8

Intracellular studies of heterosynaptic long–term depression (LTD) in CA1 of hippocampal slices. Barry MF, et al. **Hippocampus** 1996;6(1):3–8 (24 ref.)

Model of spatio–temporal propagation of action potentials in the Schaffer collateral pathway of the CA1 area of the rat hippocampus. Bernard C, et al. **Hippocampus** 1997; 7(1):58–72

Task–relevant late positive component in rats: is it related to hippocampal theta rhythm? Brankačk J, et al. **Hippocampus** 1996;6(5):475–82

Neurobiology of hippocampal interneurons: a workshop review. Buckmaster PS, et al. **Hippocampus** 1996;6(3):330–9

Physiological properties of anatomically identified basket and bistratified cells in the CA1 area of the rat hippocampus in vitro. Buhl EH, et al. **Hippocampus** 1996;6(3):294–305

Attention, configuration, and hippocampal function. Buhusi CV, et al. **Hippocampus** 1996;6(6):621–42

Neuronal computations underlying the firing of place cells and their role in navigation. Burgess N, et al. **Hippocampus** 1996;6(6):749–62

Dendritic calcium channels and hippocampal long–term depression. Christie BR, et al. **Hippocampus** 1996;6(1):17–23 (55 ref.)

Associative long–term depression in the hippocampus in vitro. Debanne D, et al. **Hippocampus** 1996;6(1):9–16 (39 ref.)

Ovarian steroidal control of connectivity in the female hippocampus: an overview of recent experimental findings and speculations on its functional consequences. Desmond NL, et al. **Hippocampus** 1997;7(2):239–45 (85 ref.)

Low–frequency trains of paired stimuli induce long–term depression in area CA1 but not in dentate gyrus of the

intact rat. Doyère V, et al. **Hippocampus** 1996;6(1):52–7
Interneurons of the hippocampus. Freund TF, et al. **Hippocampus** 1996;6(4):347–470 (757 ref.)
Presubicular and parasubicular cortical neurons of the rat: electrophysiological and morphological properties. Funahashi M, et al. **Hippocampus** 1997;7(2):117–29
Computational models of hippocampal function in memory. Gluck MA. **Hippocampus** 1996;6(6):565–6 (4 ref.)
Integrating behavioral and physiological models of hippocampal function. Gluck MA, et al. **Hippocampus** 1996; 6(6):643–53
Synaptic target selectivity and input of GABAergic basket and bistratified interneurons in the CA1 area of the rat hippocampus. Halasy K, et al. **Hippocampus** 1996; 6(3):306–29
Hippocampal place fields: relationship between degree of field overlap and cross-correlations within ensembles of hippocampal neurons. Hampson RE, et al. **Hippocampus** 1996;6(3):281–93
Human hippocampus establishes associations in memory. Henke K, et al. **Hippocampus** 1997;7(3):249–56
Synaptic plasticity during the cholinergic theta-frequency oscillation in vitro. Huerta PT, et al. **Hippocampus** 1996; 6(1):58–61
LTP and spatial learning--where to next? Jeffery KJ. **Hippocampus** 1997;7(1):95–110 (105 ref.)
LTD: many means to how many ends? Kerr DS, et al. **Hippocampus** 1996;6(1):30–4 (41 ref.)
Regional differences in glial cell modulation of synaptic transmission. Keyser DO, et al. **Hippocampus** 1997; 7(1):73–7
Entorhinal cortical innervation of parvalbumin-containing neurons (Basket and Chandelier cells) in the rat Ammon's horn. Kiss J, et al. **Hippocampus** 1996;6(3):239–46
Phase relations of rhythmic neuronal firing in the supramammillary nucleus and mammillary body to the hippocampal theta activity in urethane anesthetized rats. Kocsis B, et al. **Hippocampus** 1997;7(2):204–14
A sequence predicting CA3 is a flexible associator that learns and uses context to solve hippocampal-like tasks. Levy WB. **Hippocampus** 1996;6(6):579–90
Direct connection between perirhinal cortex and hippocampus is a major constituent of the lateral perforant path [see comments] Liu P, et al. **Hippocampus** 1996; 6(2):125–35. Comment in: Hippocampus 1997;7(3):350–1.
Current source density analysis of the potential evoked in hippocampus by perirhinal cortex stimulation. Liu P, et al. **Hippocampus** 1997;7(4):389–96
Parallel involvement of perirhinal and lateral entorhinal cortex in the polysynaptic activation of hippocampus by olfactory inputs. Liu P, et al. **Hippocampus** 1997; 7(3):296–306
Considerations arising from a complementary learning systems perspective on hippocampus and neocortex. McClelland JL, et al. **Hippocampus** 1996;6(6):654–65
Systematic comparison of the effects of hippocampal and fornix-fimbria lesions on acquisition of three configural discriminations. McDonald RJ, et al. **Hippocampus** 1997; 7(4):371–88
Selective immunolesions of hippocampal cholinergic input fail to impair spatial working memory. McMahan RW, et al. **Hippocampus** 1997;7(2):130–6
In vitro electrophysiology of rat subicular bursting neurons. Mattia D, et al. **Hippocampus** 1997;7(1):48–57
Hippocampal place cells connected by Hebbian synapses can solve spatial problems. Muller RU, et al. **Hippocampus** 1996;6(6):709–19
Memory for places: a navigational model in support of Marr's theory of hippocampal function. Recce M, et al. **Hippocampus** 1996;6(6):735–48
Cognitive maps beyond the hippocampus. Redish AD, et al. **Hippocampus** 1997;7(1):15–35 (182 ref.)
Genetic variation in the morphology of the septo-hippocampal cholinergic and GABAergic systems in mice: II. Morpho-behavioral correlations. Schwegler H, et al. **Hippocampus** 1996;6(5):535–45
Neural network modeling of the hippocampal formation spatial signals and their possible role in navigation: a modular approach. Sharp PE, et al. **Hippocampus** 1996; 6(6):720–34
Modeling the spontaneous reactivation of experience-specific hippocampal cell assembles during sleep. Shen B, et al. **Hippocampus** 1996;6(6):685–92
Theta phase precession in hippocampal neuronal populations and the compression of temporal sequences. Skaggs WE, et al. **Hippocampus** 1996;6(2):149–72
Ischemic brain damage and memory impairment: a commentary. Squire LR, et al. **Hippocampus** 1996; 6(5):546–52 (50 ref.)
LTD, LTP, and the sliding threshold for long-term synaptic plasticity. Stanton PK. **Hippocampus** 1996;6(1):35–42 (69 ref.)
NMDA receptor-dependent LTD in different subfields of hippocampus in vivo and in vitro. Thiels E, et al. **Hippocampus** 1996;6(1):43–51 (64 ref.)
Theory of rodent navigation based on interacting representations of space. Touretzky DS, et al. **Hippocampus** 1996;6(3):247–70
How much of the hippocampus can be explained by functional constraints? Treves A, et al. **Hippocampus** 1996; 6(6):666–74
Population dynamics and theta rhythm phase precession of hippocampal place cell firing: a spiking neuron model. Tsodyks MV, et al. **Hippocampus** 1996;6(3):271–80
Homosynaptic LTD and depotentiation: do they differ in name only? Wagner JJ, et al. **Hippocampus** 1996;6(1):24–9 (37 ref.)
Perseveration on place reversals in spatial swimming pool tasks: further evidence for place learning in hippocampal rats. Whishaw IQ, et al. **Hippocampus** 1997;7(4):361–70
Evidence for extrahippocampal involvement in place learning and hippocampal involvement in path integration. Whishaw IQ, et al. **Hippocampus** 1996;6(5):513–24
Orphanin FQ inhibits synaptic transmission and long-term potentiation in rat hippocampus. Yu TP, et al. **Hippocampus** 1997;7(1):88–94
Spontaneous signalling in small central neurons: mechanisms and roles of spike-amplitude and spike-interval fluctuations. Arhem P, et al. **Int J Neural Syst** 1996 Sep; 7(4):369–76 (39 ref.)
Neuronal mechanisms underlying the interaction between visual landmarks and path integration in the rat. Knierim JJ, et al. **Int J Neural Syst** 1996 May;7(2):213–8
Endogenous opioid regulation of hippocampal function. Simmons ML, et al. **Int Rev Neurobiol** 1996;39:145–96 (241 ref.)
A requirement for the mitogen-activated protein kinase cascade in hippocampal long term potentiation. English JD, et al. **J Biol Chem** 1997 Aug 1;272(31):19103–6
Fatty acid ethyl esters, nonoxidative metabolites of ethanol, accelerate the kinetics of activation of the human brain delayed rectifier K+ channel, Kv1.1. Gubitosi-Klug RA, et al. **J Biol Chem** 1996 Dec 20;271(51):32519–22
Immunostaining for substance P receptor labels GABAergic cells with distinct termination patterns in the hippocampus. Acsády L, et al. **J Comp Neurol** 1997 Feb 17;378(3):320–36
Cholinergic innervation of the primate hippocampal formation: II. Effects of fimbria/fornix transection. Alonso JR, et al. **J Comp Neurol** 1996 Nov 25;375(4):527–51
Hippocampal afferents to the rat prefrontal cortex: synaptic targets and relation to dopamine terminals. Carr DB, et al. **J Comp Neurol** 1996 May 20;369(1):1–15
Projections from the nucleus reuniens thalami to the entorhinal cortex, hippocampal field CA1, and the subiculum in the rat arise from different populations of neurons. Dolleman-Van Der Weel MJ, et al. **J Comp Neurol** 1996 Jan 22;364(4):637–50
Regional variability and postsynaptic targets of chandelier cells in the hippocampal formation of the rat. Martínez A, et al. **J Comp Neurol** 1996 Dec 2;376(1):28–44
Muscarinic acetylcholine receptor immunoreactivity after hippocampal commissural/associational pathway lesions: evidence for multiple presynaptic receptor subtypes. Rouse ST, et al. **J Comp Neurol** 1997 Apr 14;380(3):382–94
Organization of connections between the amygdaloid complex and the perirhinal and parahippocampal cortices in macaque monkeys. Stefanacci L, et al. **J Comp Neurol** 1996 Nov 25;375(4):552–82
Genetic influences on cellular reactions to CNS injury: the reactive response of astrocytes in denervated neuropil regions in mice carrying a mutation (Wld(S)) that causes delayed Wallerian degeneration. Steward O, et al. **J Comp Neurol** 1997 Mar 31;380(1):70–81
Hippocampal participation in the sun compass orientation of phase-shifted homing pigeons. Bingman VP, et al. **J Comp Physiol [A]** 1996 Nov;179(5):695–702
Learning navigational maps through potentiation and modulation of hippocampal place cells. Gerstner W, et al. **J Comput Neurosci** 1997 Jan;4(1):79–94
Intrinsic and network rhythmogenesis in a reduced Traub model for CA3 neurons [published erratum appears in J Comput Neurosci 1995 Sep;2(3):275] Pinsky PF, et al. **J Comput Neurosci** 1994 Jun;1(1–2):39–60
Cognitive graphs, resistive grids, and the hippocampal representation of space. Burgess N, et al. **J Gen Physiol** 1996 Jun;107(6):659–62 (32 ref.)
The hippocampus as a cognitive graph. Muller RU, et al. **J Gen Physiol** 1996 Jun;107(6):663–94 (108 ref.)
Platelet-activating factor as a potential retrograde messenger. Kato K, et al. **J Lipid Mediat Cell Signal** 1996 Sep; 14(1–3):341–8
Learning abilities depend on NMDA-receptor density in hippocampus in adult rats. Stecher J, et al. **J Neural Transm** 1997;104(2–3):281–9
Septal fetal tissue transplants restore long-term potentiation in the dentate gyrus of fimbria-formix-lesioned rats. Bergado JA, et al. **J Neural Transplant Plast** 1997 Jan–Mar; 6(1):31–40
Morphometric analysis of hippocampal pyramidal neurons in situ and in grafts developing in the anterior eye chambers of young and aged Wistar rats. Zhuravleva ZN, et al. **J Neural Transplant Plast** 1997 Jan–Mar;6(1):49–57
Increased phosphorylation of myelin basic protein during hippocampal long-term potentiation. Atkins CM, et al. **J Neurochem** 1997 May;68(5):1960–7
Preferential release of ATP and its extracellular catabolism as a source of adenosine upon high- but not low-frequency stimulation of rat hippocampal slices. Cunha RA, et al. **J Neurochem** 1996 Nov;67(5):2180–7
Apoptosis induced by differentiation or serum deprivation in an immortalized central nervous system neuronal cell line. Eves EM, et al. **J Neurochem** 1996 Nov;67(5):1908–20
Increased activity-regulating and neuroprotective efficacy of alpha-secretase-derived secreted amyloid precursor protein conferred by a C-terminal heparin-binding domain [published erratum appears in J Neurochem 1997 Mar;68(3):1331] Furukawa K, et al. **J Neurochem** 1996 Nov; 67(5):1882–96
Increased expression of calbindin D28k via herpes simplex virus amplicon vector decreases calcium ion mobilization and enhances neuronal survival after hypoglycemic challenge. Meier TJ, et al. **J Neurochem** 1997 Sep; 69(3):1039–47
Cholinergic control of nerve growth factor in adult rats: evidence from cortical cholinergic deafferentation and chronic drug treatment. Rossner S, et al. **J Neurochem** 1997 Sep;69(3):947–53
Synaptic vesicle ultrastructural changes in the rat hippocampus induced by a combination of alpha-linolenate deficiency and a learning task. Yoshida S, et al. **J Neurochem** 1997 Mar;68(3):1261–8
Ca2+ channel antagonist U-92032 inhibits both T-type Ca2+ channels and Na+ channels in hippocampal CA1 pyramidal neurons. Avery RB, et al. **J Neurophysiol** 1997 Feb;77(2):1023–8
Properties of voltage-activated Ca2+ currents in acutely isolated human hippocampal granule cells. Beck H, et al. **J Neurophysiol** 1997 Mar;77(3):1526–37
Cable properties of cultured hippocampal neurons determined from sucrose-evoked miniature EPSCs. Bekkers JM, et al. **J Neurophysiol** 1996 Mar;75(3):1250–5
Activity-dependent response depression in rat hippocampal CA1 pyramidal neurons in vitro. Borde M, et al. **J Neurophysiol** 1995 Oct;74(4):1714–29
Associative synaptic plasticity in hippocampal CA1 neurons is not sensitive to unpaired presynaptic activity. Buonomano DV, et al. **J Neurophysiol** 1996 Jul;76(1):631–6
Reversal of LTP in the hippocampal afferent fiber system to the prefrontal cortex in vivo with low-frequency patterns of stimulation that do not produce LTD. Burette F, et al. **J Neurophysiol** 1997 Aug;78(2):1155–60
Frequency-dependent propagation of sodium action potentials in dendrites of hippocampal CA1 pyramidal neurons. Callaway JC, et al. **J Neurophysiol** 1995 Oct; 74(4):1395–403
Presynaptic inhibition of calcium-dependent and -independent release elicited with ionomycin, gadolinium, and alpha-latrotoxin in the hippocampus. Capogna M, et al. **J Neurophysiol** 1996 May;75(5):2017–28
Two forms of long-term potentiation in area CA1 activate different signal transduction cascades. Cavuş I, et al. **J Neurophysiol** 1996 Nov;76(5):3038–47
Two temporally overlapping "delayed-rectifiers" determine the voltage-dependent potassium current phenotype in cultured hippocampal interneurons. Chikwendu A, et al. **J Neurophysiol** 1996 Sep;76(3):1477–90
Contribution of voltage-gated Ca2+ channels to homosynaptic long-term depression in the CA1 region in vitro. Christie BR, et al. **J Neurophysiol** 1997 Mar; 77(3):1651–5
Dendritic spine density and LTP induction in cultured hippocampal slices. Collin C, et al. **J Neurophysiol** 1997 Mar;77(3):1614–23
Glutamate-induced long-term potentiation enhances spontaneous EPSC amplitude but not frequency. Cormier RJ, et al. **J Neurophysiol** 1996 May;75(5):1909–18
Blocking GABA(A) inhibition reveals AMPA- and NMDA-receptor-mediated polysynaptic responses in the CA1 region of the rat hippocampus. Crépel V, et al. **J Neurophysiol** 1997 Apr;77(4):2071–82
Bidirectional associative plasticity of unitary CA3-CA1 EPSPs in the rat hippocampus in vitro. Debanne D, et al. **J Neurophysiol** 1997 May;77(5):2851–5
Endogenous GABA activates small-conductance K+ channels underlying slow IPSCs in rat hippocampal neurons. De Koninck Y, et al. **J Neurophysiol** 1997 Apr; 77(4):2202–8
Different mechanisms regulate IPSC kinetics in early postnatal and juvenile hippocampal granule cells. Draguhn A, et al. **J Neurophysiol** 1996 Dec;76(6):3983–93
Stimulation at 1–5 Hz does not produce long-term depression or depotentiation in the hippocampus of the adult rat in vivo. Errington ML, et al. **J Neurophysiol** 1995 Oct; 74(4):1793–9
Selective expression of transient outward currents in different types of acutely isolated hippocampal interneurons. Fan SH, et al. **J Neurophysiol** 1996 Nov;76(5):3563–7
Physiological and pharmacological alterations in postsynaptic GABA(A) receptor function in a hippocampal culture model of chronic spontaneous seizures. Gibbs JW 3rd, et al. **J Neurophysiol** 1997 Apr;77(4):2139–52
Neuronal diversity in the subiculum: correlations with the effects of somatostatin on intrinsic properties and on GABA-mediated IPSPs in vitro. Greene JR, et al. **J Neurophysiol** 1996 Sep;76(3):1657–66
Large amplitude miniature excitatory postsynaptic currents in hippocampal CA3 pyramidal neurons are of mossy fiber origin. Henze DA, et al. **J Neurophysiol** 1997 Mar; 77(3):1075–86
Characterization of dopamine receptors mediating inhibition of excitatory synaptic transmission in the rat hippocampal slice. Hsu KS. **J Neurophysiol** 1996 Sep;76(3):1887–95
Enhancement of whole cell synaptic currents by low osmolarity and by low [NaCl] in rat hippocampal slices. Huang R, et al. **J Neurophysiol** 1997 May;77(5):2349–59
Noradrenergic regulation of synaptic plasticity in the

hippocampal CA1 region. Katsuki H, et al. **J Neurophysiol** 1997 Jun;77(6):3013–20

Task-dependent representations in rat hippocampal place neurons. Kobayashi T, et al. **J Neurophysiol** 1997 Aug; 78(2):597–613

1S, 3R-ACPD induces a region of negative slope conductance in the steady-state current-voltage relationship of hippocampal pyramidal cells. Lüthi A, et al. **J Neurophysiol** 1997 Jan;77(1):221–8

Sequence of single neuron changes in CA1 hippocampus of rabbits during acquisition of trace eyeblink conditioned responses. McEchron MD, et al. **J Neurophysiol** 1997 Aug; 78(2):1030–44

Electrotonic architecture of hippocampal CA1 pyramidal neurons based on three-dimensional reconstructions. Mainen ZF, et al. **J Neurophysiol** 1996 Sep;76(3):1904–23

Frequency-dependent depression of excitatory synaptic transmission is independent of activation of MCPG-sensitive presynaptic metabotropic glutamate receptors in cultured hippocampal neurons. Maki R, et al. **J Neurophysiol** 1995 Oct;74(4):1671–4

Effects of rhinal cortex lesions combined with hippocampectomy on visual recognition memory in rhesus monkeys. Meunier M, et al. **J Neurophysiol** 1996 Mar; 75(3):1190–205

Membrane properties and synaptic currents evoked in CA1 interneuron subtypes in rat hippocampal slices. Morin F, et al. **J Neurophysiol** 1996 Jul;76(1):1–16

Role of voltage-gated calcium channels in the generation of activity-induced extracellular pH transients in the rat hippocampal slice. Paalasmaa P, et al. **J Neurophysiol** 1996 Jun;75(6):2354–60

Enhanced synaptic transmission in CA1 hippocampus after eyeblink conditioning. Power JM, et al. **J Neurophysiol** 1997 Aug;78(2):1184–7

Astrocytic inwardly rectifying potassium currents are dependent on external sodium ions. Ransom CB, et al. **J Neurophysiol** 1996 Jul;76(1):626–30

Presynaptic inhibition at excitatory hippocampal synapses: development and role of presynaptic Ca2+ channels. Scholz KP, et al. **J Neurophysiol** 1996 Jul;76(1):39–46

Intracellular QX-314 inhibits calcium currents in hippocampal CA1 pyramidal neurons. Talbot MJ, et al. **J Neurophysiol** 1996 Sep;76(3):2120–4

Mechanisms underlying the rapid depolarization produced by deprivation of oxygen and glucose in rat hippocampal CA1 neurons in vitro. Tanaka E, et al. **J Neurophysiol** 1997 Aug;78(2):891–902

Transient changes in excitability of rabbit CA3 neurons with a time course appropriate to support memory consolidation. Thompson LT, et al. **J Neurophysiol** 1996 Sep; 76(3):1836–49

Differential sensitivity to intracellular pH among high- and low-threshold Ca2+ currents in isolated rat CA1 neurons [published erratum appears in J Neurophysiol 1997 May;77(5):following table of contents] Tombaugh GC, et al. **J Neurophysiol** 1997 Feb;77(2):639–53

IPSPs modulate spike backpropagation and associated [Ca2+]i changes in the dendrites of hippocampal CA1 pyramidal neurons. Tsubokawa H, et al. **J Neurophysiol** 1996 Nov;76(5):2896–906

Regulation of synaptic facilitation by postsynaptic Ca2+/CaM pathways in hippocampal CA1 neurons. Wang JH, et al. **J Neurophysiol** 1996 Jul;76(1):276–86

Differential ethanol sensitivity of subpopulations of GABAA synapses onto rat hippocampal CA1 pyramidal neurons. Weiner JL, et al. **J Neurophysiol** 1997 Mar;77(3):1306–12

Multiple channel types contribute to the low-voltage-activated calcium current in hippocampal CA3 pyramidal neurons. Avery RB, et al. **J Neurosci** 1996 Sep 15;16(18):5567–82

Enhanced fast synaptic transmission and a delayed depolarization induced by transient potassium current blockade in rat hippocampal slice as studied by optical recording. Barish ME, et al. **J Neurosci** 1996 Sep 15; 16(18):5672–87

Disruption of decrements in conditioned stimulus processing by selective removal of hippocampal cholinergic input. Baxter MG, et al. **J Neurosci** 1997 Jul 1;17(13):5230–6

Activity-independent segregation of excitatory and inhibitory synaptic terminals in cultured hippocampal neurons. Benson DL, et al. **J Neurosci** 1996 Oct 15; 16(20):6424–32

Functional expression of the heteromeric "olfactory" cyclic nucleotide-gated channel in the hippocampus: a potential effector of synaptic plasticity in brain neurons. Bradley J, et al. **J Neurosci** 1997 Mar 15;17(6):1993–2005

Endogenous activation of mu and delta-1 opioid receptors is required for long-term potentiation induction in the lateral perforant path: dependence on GABAergic inhibition. Bramham CR, et al. **J Neurosci** 1996 Dec 15; 16(24):8123–31

Aging changes in voltage-gated calcium currents in hippocampal CA1 neurons. Campbell LW, et al. **J Neurosci** 1996 Oct 1;16(19):6286–95

Dopaminergic modulation of sodium current in hippocampal neurons via cAMP-dependent phosphorylation of specific sites in the sodium channel alpha subunit. Cantrell AR, et al. **J Neurosci** 1997 Oct 1;17(19):7330–8

Ca2+ or Sr2+ partially rescues synaptic transmission in hippocampal cultures treated with botulinum toxin A and C, but not tetanus toxin. Capogna M, et al. **J Neurosci** 1997 Oct 1;17(19):7190–202

Slow recovery from inactivation of Na+ channels underlies the activity-dependent attenuation of dendritic action potentials in hippocampal CA1 pyramidal neurons. Colbert CM, et al. **J Neurosci** 1997 Sep 1;17(17):6512–21

Calcium-dependent paired-pulse facilitation of miniature EPSC frequency accompanies depression of EPSCs at hippocampal synapses in culture. Cummings DD, et al. **J Neurosci** 1996 Sep 1;16(17):5312–23

Transporters buffer synaptically released glutamate on a submillisecond time scale. Diamond JS, et al. **J Neurosci** 1997 Jun 15;17(12):4672–87

Nucleus reuniens thalami modulates activity in hippocampal field CA1 through excitatory and inhibitory mechanisms. Dolleman-Van der Weel MJ, et al. **J Neurosci** 1997 Jul 15;17(14):5640–50

Selective roles for hippocampal, prefrontal cortical, and ventral striatal circuits in radial-arm maze tasks with or without a delay. Floresco SB, et al. **J Neurosci** 1997 Mar 1;17(5):1880–90

Cholinergic-dependent plateau potential in hippocampal CA1 pyramidal neurons. Fraser DD, et al. **J Neurosci** 1996 Jul 1;16(13):4113–28

Interaction of perirhinal cortex with the fornix-fimbria: memory for objects and "object-in-place" memory. Gaffan D, et al. **J Neurosci** 1996 Sep 15;16(18):5864–9

Dynamics of mismatch correction in the hippocampal ensemble code for space: interaction between path integration and environmental cues. Gothard KM, et al. **J Neurosci** 1996 Dec 15;16(24):8027–40

Presynaptic control of subunit composition of NMDA receptors mediating synaptic plasticity. Gottmann K, et al. **J Neurosci** 1997 Apr 15;17(8):2766–74

Stimulation on the positive phase of hippocampal theta rhythm induces long-term potentiation that can Be depotentiated by stimulation on the negative phase in area CA1 in vivo. Hölscher C, et al. **J Neurosci** 1997 Aug 15; 17(16):6470–7

The in vivo time course for elimination of adrenalectomy-induced apoptotic profiles from the granule cell layer of the rat hippocampus. Hu Z, et al. **J Neurosci** 1997 Jun 1;17(11):3981–9

Reduction of K+ uptake in glia prevents long-term depression maintenance and causes epileptiform activity. Janigro D, et al. **J Neurosci** 1997 Apr 15;17(8):2813–24

p53 expression induces apoptosis in hippocampal pyramidal neuron cultures. Jordán J, et al. **J Neurosci** 1997 Feb 15; 17(4):1397–405

Prolonged sodium channel inactivation contributes to dendritic action potential attenuation in hippocampal pyramidal neurons. Jung HY, et al. **J Neurosci** 1997 Sep 1;17(17):6639–46

Long-lasting GABA-mediated depolarization evoked by high-frequency stimulation in pyramidal neurons of rat hippocampal slice is attributable to a network-driven, bicarbonate-dependent K+ transient. Kaila K, et al. **J Neurosci** 1997 Oct 15;17(20):7662–72

Tau binds to the distal axon early in development of polarity in a microtubule- and microfilament-dependent manner. Kempf M, et al. **J Neurosci** 1996 Sep 15;16(18):5583–92

Role of the hippocampus, the bed nucleus of the stria terminalis, and the amygdala in the excitatory effect of corticotropin-releasing hormone on the acoustic startle reflex. Lee Y, et al. **J Neurosci** 1997 Aug 15;17(16):6434–46

Mice lacking metabotropic glutamate receptor 5 show impaired learning and reduced CA1 long-term potentiation (LTP) but normal CA3 LTP. Lu YM, et al. **J Neurosci** 1997 Jul 1;17(13):5196–205

Endogenous serine protease inhibitor modulates epileptic activity and hippocampal long-term potentiation. Lüthi A, et al. **J Neurosci** 1997 Jun 15;17(12):4688–99

Long-term potentiation in distinct subtypes of hippocampal nonpyramidal neurons. Maccaferri G, et al. **J Neurosci** 1996 Sep 1;16(17):5334–43

Recalling routes around london: activation of the right hippocampus in taxi drivers. Maguire EA, et al. **J Neurosci** 1997 Sep 15;17(18):7103–10

Group 1 and 2 metabotropic glutamate receptors play differential roles in hippocampal long-term depression and long-term potentiation in freely moving rats. Manahan-Vaughan D. **J Neurosci** 1997 May 1; 17(9):3303–11

Cholecystokinin increases GABA release by inhibiting a resting K+ conductance in hippocampal interneurons. Miller KK, et al. **J Neurosci** 1997 Jul 1;17(13):4994–5003

N-ethylmaleimide blocks depolarization-induced suppression of inhibition and enhances GABA release in the rat hippocampal slice in vitro. Morishita W, et al. **J Neurosci** 1997 Feb 1;17(3):941–50

Intraseptal procaine abolishes hypothalamic stimulation-induced wheel-running and hippocampal theta field activity in rats. Oddie SD, et al. **J Neurosci** 1996 Mar 1;16(5):1948–56

D1/D5 dopamine receptor activation increases the magnitude of early long-term potentiation at CA1 hippocampal synapses. Otmakhova NA, et al. **J Neurosci** 1996 Dec 1; 16(23):7478–86

Gonadal steroids exert facilitating and "buffering" effects on glucocorticoid-mediated transcriptional regulation of corticotropin-releasing hormone and corticosteroid receptor genes in rat brain. Patchev VK, et al. **J Neurosci** 1996 Nov 1;16(21):7077–84

Hippocampal astrocytes in situ respond to glutamate released from synaptic terminals. Porter JT, et al. **J Neurosci** 1996 Aug 15;16(16):5073–81

Calcium channel density and hippocampal cell death with age in long-term culture. Porter NM, et al. **J Neurosci** 1997 Jul 15;17(14):5629–39

Nonuniform distribution of Ca2+ channel subtypes on presynaptic terminals of excitatory synapses in hippocampal cultures. Reid CA, et al. **J Neurosci** 1997 Apr 15; 17(8):2738–45

Induction of hippocampal long-term depression requires release of Ca2+ from separate presynaptic and postsynaptic intracellular stores. Reyes M, et al. **J Neurosci** 1996 Oct 1;16(19):5951–60

Path integration and cognitive mapping in a continuous attractor neural network model. Samsonovich A, et al. **J Neurosci** 1997 Aug 1;17(15):5900–20

The effect of aging on experience-dependent plasticity of hippocampal place cells. Shen J, et al. **J Neurosci** 1997 Sep 1;17(17):6769–82

Studies on long-term depression in area CA1 of the anesthetized and freely moving rat. Staubli U, et al. **J Neurosci** 1997 Jun 15;17(12):4820–8

A pacemaker current in dye-coupled hilar interneurons contributes to the generation of giant GABAergic potentials in developing hippocampus. Strata F, et al. **J Neurosci** 1997 Feb 15;17(4):1435–46

Brain aging: changes in the nature of information coding by the hippocampus. Tanila H, et al. **J Neurosci** 1997 Jul 1; 17(13):5155–66

Induction of hebbian and non-hebbian mossy fiber long-term potentiation by distinct patterns of high-frequency stimulation. Urban NN, et al. **J Neurosci** 1996 Jul 1; 16(13):4293–9

Postsynaptic calcineurin activity downregulates synaptic transmission by weakening intracellular Ca2+ signaling mechanisms in hippocampal CA1 neurons. Wang JH, et al. **J Neurosci** 1997 Jun 15;17(12):4600–11

Gamma oscillation by synaptic inhibition in a hippocampal interneuronal network model. Wang XJ, et al. **J Neurosci** 1996 Oct 15;16(20):6402–13

Insensitivity of the hippocampus to environmental stimulation during postnatal development. Waters NS, et al. **J Neurosci** 1997 Oct 15;17(20):7967–73

Activation and desensitization of hippocampal kainate receptors. Wilding TJ, et al. **J Neurosci** 1997 Apr 15; 17(8):2713–21

Memory representation within the parahippocampal region. Young BJ, et al. **J Neurosci** 1997 Jul 1;17(13):5183–95

Noise deconvolution based on the L1-metric and decomposition of discrete distributions of postsynaptic responses. Astrelin AV, et al. **J Neurosci Methods** 1997 Apr 25;73(1):17–27

Information flow between hippocampus and related structures during various types of rat's behavior. Korzeniewska A, et al. **J Neurosci Methods** 1997 Apr 25; 73(1):49–60

Dissociation of postnatal hippocampal neurons for short term culture. Mynlieff M. **J Neurosci Methods** 1997 Apr 25; 73(1):35–44

Microdialysis monitoring of extracellular glutamate combined with the simultaneous recording of evoked field potentials in hippocampal organotypic slice cultures. Robert F, et al. **J Neurosci Methods** 1997 Jun 6;74(1):65–76

A new extracellular multirecording system for electrophysiological studies: application to hippocampal organotypic cultures. Stoppini L, et al. **J Neurosci Methods** 1997 Mar;72(1):23–33

The polysialic acid modification of the neural cell adhesion molecule is involved in spatial learning and hippocampal long-term potentiation. Becker CG, et al. **J Neurosci Res** 1996 Jul 15;45(2):143–52

Reduction of hippocampal long-term potentiation in transgenic mice ectopically expressing the neural cell adhesion molecule L1 in astrocytes. Lüthi A, et al. **J Neurosci Res** 1996 Oct 1;46(1):1–6

Epileptic activity prevents synapse formation of hippocampal mossy fibers via L-type calcium channel activation in vitro. Ikegaya Y, et al. **J Pharmacol Exp Ther** 1997 Jan; 280(1):471–6

Alpha-conotoxin-ImI: a competitive antagonist at alpha-bungarotoxin-sensitive neuronal nicotinic receptors in hippocampal neurons. Pereira EF, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1472–83

Retrograde signalling in depolarization-induced suppression of inhibition in rat hippocampal CA1 cells. Alger BE, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):197–209

Muscarinic receptors mediating depression and long-term potentiation in rat hippocampus. Auerbach JM, et al. **J Physiol (Lond)** 1996 Apr 15;492 (Pt 2):479–93

Extracellular free potassium and calcium during synchronous activity induced by 4-aminopyridine in the juvenile rat hippocampus. Avoli M, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):707–17

Ionic basis of spike after-depolarization and burst generation in adult rat hippocampal CA1 pyramidal cells. Azouz R, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):211–23

Potassium currents in acutely isolated human hippocampal dentate granule cells. Beck H, et al. **J Physiol (Lond)** 1997 Jan 1;498 (Pt 1):73–85

pH regulation in single CA1 neurons acutely isolated from the hippocampi of immature and mature rats. Bevensee

MO, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):315–28

Evidence that heterosynaptic depolarization underlies associativity of long–term potentiation in rat hippocampus. Clark KA, et al. **J Physiol (Lond)** 1996 Jan 15;490 (Pt 2):455–62

Regulation of EPSPs by the synaptic activation of GABAB autoreceptors in rat hippocampus. Davies CH, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):451–70

Paired–pulse facilitation and depression at unitary synapses in rat hippocampus: quantal fluctuation affects subsequent release. Debanne D, et al. **J Physiol (Lond)** 1996 Feb 15; 491 (Pt 1):163–76

G–protein–mediated desensitization of metabotropic glutamatergic and muscarinic responses in CA3 cells in rat hippocampus. Guérineau NC, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):487–96

Spike after–depolarization and burst generation in adult rat hippocampal CA1 pyramidal cells. Jensen MS, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):199–210

Activation of metabotropic glutamate receptor type 2/3 suppresses transmission at rat hippocampal mossy fibre synapses. Kamiya H, et al. **J Physiol (Lond)** 1996 Jun 1; 493 (Pt 2):447–55

Synchronization of GABAergic interneuronal network in CA3 subfield of neonatal rat hippocampal slices. Khazipov R, et al. **J Physiol (Lond)** 1997 Feb 1;498 (Pt 3):763–72

High–threshold Ca2+ currents in rat hippocampal interneurones and their selective inhibition by activation of GABA(B) receptors. Lambert NA, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):115–27

Bidirectional plasticity expressed by GABAergic synapses in the neonatal rat hippocampus. McLean HA, et al. **J Physiol (Lond)** 1996 Oct 15;496 (Pt 2):471–7

Disinhibition and brain rhythms. MacVicar BA. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):283 (5 ref.)

Identification of a native low–conductance NMDA channel with reduced sensitivity to Mg2+ in rat central neurones. Momiyama A, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):479–92

A novel synaptic interaction underlying induction of long–term depression in the area CA1 of adult rat hippocampus. Otani S, et al. **J Physiol (Lond)** 1996 Apr 1;492 (Pt 1):225–30

Intracellular sodium homeostasis in rat hippocampal astrocytes. Rose CR, et al. **J Physiol (Lond)** 1996 Mar 1; 491 (Pt 2):291–305

Analysis of gamma rhythms in the rat hippocampus in vitro and in vivo. Traub RD, et al. **J Physiol (Lond)** 1996 Jun 1;493 (Pt 2):471–84

Excitatory synaptic site heterogeneity during paired pulse plasticity in CA1 pyramidal cells in rat hippocampus in vitro. Turner DA, et al. **J Physiol (Lond)** 1997 Apr 15;500 (Pt 2):441–61

Analysis of current fluctuations during after–hyperpolarization current in dentate granule neurones of the rat hippocampus. Valiante TA, et al. **J Physiol (Lond)** 1997 Feb 15;499 (Pt 1):121–34

Increased neuronal excitability during depolarization–induced suppression of inhibition in rat hippocampus. Wagner JJ, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):107–12

Modulation of excitatory synaptic transmission by low concentrations of glutamate in cultured rat hippocampal neurons. Zorumski CF, et al. **J Physiol (Lond)** 1996 Jul 15;494 (Pt 2):465–77

Induction of heterosynaptic and homosynaptic LTD in hippocampal sub–regions in vivo. Abraham WC. **J Physiol Paris** 1996;90(5–6):305–6 (13 ref.)

Cellular correlates to spatial learning in the rat hippocampus. Andersen P, et al. **J Physiol Paris** 1996;90(5–6):349

Nitric oxide acts as a retrograde messenger during long–term potentiation in cultured hippocampal neurons. Arancio O, et al. **J Physiol Paris** 1996;90(5–6):321–2

LTP and spatial learning. Bliss TV. **J Physiol Paris** 1996; 90(5–6):335

Modulation of synaptic plasticity in the hippocampus and piriform cortex by physiologically meaningful olfactory cues in an olfactory association task. Chaillan FA, et al. **J Physiol Paris** 1996;90(5–6):343–7

Evidence that presynaptic changes are involved in the expression of LTP and LTD of NMDA receptor–mediated EPSCs in area CA1 of the hippocampus. Clark KA, et al. **J Physiol Paris** 1996;90(5–6):311

Synaptic and non–synaptic plasticity between individual pyramidal cells in the rat hippocampus in vitro. Debanne D, et al. **J Physiol Paris** 1996;90(5–6):307–9

Long–term potentiation as a mechanism of functional synapse induction in the developing hippocampus. Durand GM, et al. **J Physiol Paris** 1996;90(5–6):313–5

Expression mechanisms of long–term potentiation in the hippocampus. Isaac JT, et al. **J Physiol Paris** 1996; 90(5–6):299–303 (12 ref.)

Long–term potentiation and long–term depression in the lateral septum in spatial working and reference memory. Jaffard R, et al. **J Physiol Paris** 1996;90(5–6):339–41

Plasticity of the hippocampal–prefrontal cortex synapses. Jay TM, et al. **J Physiol Paris** 1996;90(5–6):361–6 (19 ref.)

Olfactory recognition memory. Keverne EB, et al. **J Physiol Paris** 1996;90(5–6):399–401 (13 ref.)

The involvement of brain–derived neurotrophic factor in hippocampal long–term potentiation revealed by gene targeting experiments. Korte M, et al. **J Physiol Paris** 1996; 90(3–4):157–64

Further studies of the role of hippocampal synaptic plasticity in spatial learning: is hippocampal LTP a mechanism for automatically recording attended experience? Morris RG. **J Physiol Paris** 1996;90(5–6):333–4

Heterosynaptic long–term depression in the hippocampus. Scanziani M, et al. **J Physiol Paris** 1996;90(3–4):165–6

Dynamics of hippocampal memory formation in waking and sleep states. Wilson M. **J Physiol Paris** 1996;90(5–6):351–2

Adenosine and neuronal plasticity. de Mendonça A, et al. **Life Sci** 1997;60(4–5):245–51 (52 ref.)

Muscarinic receptors involved in hippocampal plasticity. Segal M, et al. **Life Sci** 1997;60(13–14):1085–91 (37 ref.)

Hippocampus and learning: possible role of histamine receptors. Alvarez EO, et al. **Medicina (B Aires)** 1996; 56(2):155–60

Memory for items and memory for relations in the procedural/declarative memory framework. Cohen NJ, et al. **Memory** 1997 Jan–Mar;5(1–2):131–78

Extending models of hippocampal function in animal conditioning to human amnesia. Gluck MA, et al. **Memory** 1997 Jan–Mar;5(1–2):179–212

Characterization of a neuregulin–related gene, Don–1, that is highly expressed in restricted regions of the cerebellum and hippocampus. Busfield SJ, et al. **Mol Cell Biol** 1997 Jul;17(7):4007–14

NCAM is essential for axonal growth and fasciculation in the hippocampus. Cremer H, et al. **Mol Cell Neurosci** 1997; 8(5):323–35

The effects of intrahippocampal BDNF and NGF on spatial learning in aged Long Evans rats. Pelleymounter MA, et al. **Mol Chem Neuropathol** 1996 Oct–Dec;29(2–3):211–26

Glucocorticoids and the hippocampus. Developmental interactions facilitating the expression of behavioral inhibition. Takahashi LK. **Mol Neurobiol** 1996 Dec; 13(3):213–26 (141 ref.)

5–Hydroxytryptamine4 receptors reduce afterhyperpolarization in hippocampus by inhibiting calcium–induced calcium release. Torres GE, et al. **Mol Pharmacol** 1996 Nov;50(5):1316–22

A hippocampal role in the flexible representation of memory [news] Bunsey M. **Mol Psychiatry** 1996 Jul;1(3):176–8

Multistability of cognitive maps in the hippocampus of old rats. Barnes CA, et al. **Nature** 1997 Jul 17;388(6639):272–5

Rab3A is essential for mossy fibre long–term potentiation in the hippocampus. Castillo PE, et al. **Nature** 1997 Aug 7;388(6642):590–3

Action–potential propagation gated by an axonal I(A)–like K+ conductance in hippocampus. Debanne D, et al. **Nature** 1997 Sep 18;389(6648):286–9

Dissociating prefrontal and hippocampal function in episodic memory encoding. Dolan RJ, et al. **Nature** 1997 Aug 7; 388(6642):582–5

Loose–patch recordings of single quanta at individual hippocampal synapses. Forti L, et al. **Nature** 1997 Aug 28; 388(6645):874–8

Endothelial nitric oxide synthase and LTP [letter] Wilson RI, et al. **Nature** 1997 Mar 27;386(6623):338

Behavioural stress facilitates the induction of long–term depression in the hippocampus. Xu L, et al. **Nature** 1997 May 29;387(6632):497–500

Age–related decrease in cholinergic synaptic transmission in three hippocampal subfields. Shen J, et al. **Neurobiol Aging** 1996 May–Jun;17(3):439–51

Dissociation of hippocampal and striatal contributions to spatial navigation in the water maze. Devan BD, et al. **Neurobiol Learn Mem** 1996 Nov;66(3):305–23

Electrolytic lesions of the fimbria/fornix, dorsal hippocampus, or entorhinal cortex produce anterograde deficits in contextual fear conditioning in rats. Maren S, et al. **Neurobiol Learn Mem** 1997 Mar;67(2):142–9

Effects of fimbria–fornix lesions on door discrimination and route choice in a lattice maze by rats. Okaichi H. **Neurobiol Learn Mem** 1996 Sep;66(2):155–66

Strategies used by hippocampal– and caudate–putamen–lesioned rats in a learning task. Oliveira MG, et al. **Neurobiol Learn Mem** 1997 Jul;68(1):32–41

Combined lesions of perirhinal and entorhinal cortex impair rats' performance in two versions of the spatially guided radial–arm maze. Otto T, et al. **Neurobiol Learn Mem** 1997 Jul;68(1):21–31

Multicompartmental modeling of hippocampal pyramidal cells and interneurons with the GENESIS software tool. Adorján P, et al. **Neurobiology (Bp)** 1996;4(3):247–9

Alternative modeling strategies and their applications in the olfactory system and the hippocampus. Erdi P. **Neurobiology (Bp)** 1996;4(3):261–3

Normal and epileptic activities in a population model of the hippocampal CA3 region. Gröbler T, et al. **Neurobiology (Bp)** 1996;4(3):265–7

Sites of synaptic junctions established by a GABAergic basket cell on an interneuron in the CA1 area of the rat hippocampus. Halasy K, et al. **Neurobiology (Bp)** 1996; 4(3):269–70

CaM kinase II in long–term potentiation. Fukunaga K, et al. **Neurochem Int** 1996 Apr;28(4):343–58 (151 ref.)

Amino acid metabolism in rat hippocampus during the period of brain growth spurt. Govinatzki MT, et al. **Neurochem Res** 1997 Jan;22(1):23–6

Neurochemical modulation of the hippocampus in learning, remembering and forgetting in primates. Ridley RM, et al. **Neurodegeneration** 1996 Dec;5(4):467–71 (27 ref.)

Extrasynaptic glutamate spillover in the hippocampus: dependence on temperature and the role of active glutamate uptake. Asztely F, et al. **Neuron** 1997 Feb;18(2):281–93

Heterogeneity of release probability, facilitation, and depletion at central synapses. Dobrunz LE, et al. **Neuron** 1997 Jun;18(6):995–1008

Single neuron activity in human hippocampus and amygdala during recognition of faces and objects. Fried I, et al. **Neuron** 1997 May;18(5):753–65

Submillisecond AMPA receptor–mediated signaling at a principal neuron–interneuron synapse. Geiger JR, et al. **Neuron** 1997 Jun;18(6):1009–23

GABA(B)–mediated presynaptic inhibition of excitatory transmission and synaptic vesicle dynamics in cultured hippocampal neurons. Isaacson JS, et al. **Neuron** 1997 Jan; 18(1):143–52

Dendritic Ca2+ channels characterized by recordings from isolated hippocampal dendritic segments. Kavalali ET, et al. **Neuron** 1997 Apr;18(4):651–63

Impairment of suckling response, trigeminal neuronal pattern formation, and hippocampal LTD in NMDA receptor epsilon 2 subunit mutant mice. Kutsuwada T, et al. **Neuron** 1996 Feb;16(2):333–44

Ca2+ oscillations mediated by the synergistic excitatory actions of GABA(A) and NMDA receptors in the neonatal hippocampus. Leinekugel X, et al. **Neuron** 1997 Feb; 18(2):243–55

Hippocampal interneurons express a novel form of synaptic plasticity. McMahon LL, et al. **Neuron** 1997 Feb; 18(2):295–305

Heterogeneous release properties of visualized individual hippocampal synapses. Murthy VN, et al. **Neuron** 1997 Apr; 18(4):599–612

Hebb's dream: the resurgence of cell assemblies. Nicolelis MA, et al. **Neuron** 1997 Aug;19(2):219–21 (18 ref.)

Two distinct forms of long–term depression coexist in CA1 hippocampal pyramidal cells. Oliet SH, et al. **Neuron** 1997 Jun;18(6):969–82

Either N– or P–type calcium channels mediate GABA release at distinct hippocampal inhibitory synapses. Poncer JC, et al. **Neuron** 1997 Mar;18(3):463–72

Activity–dependent beta–adrenergic modulation of low frequency stimulation induced LTP in the hippocampal CA1 region. Thomas MJ, et al. **Neuron** 1996 Sep; 17(3):475–82

Direct modulation of the secretory machinery underlies PKA–dependent synaptic facilitation in hippocampal neurons. Trudeau LE, et al. **Neuron** 1996 Oct;17(4):789–97

Inhibitory effect of intrahippocampal NPY injection on amphetamine–induced behavioural activity. Smiałowska M, et al. **Neuropeptides** 1996 Feb;30(1):67–71

Modulation of dopamine release in the nucleus accumbens by 5–HT1B agonists: involvement of the hippocampo–accumbens pathway. Boulenguez P, et al. **Neuropharmacology** 1996;35(11):1521–9

Activation of metabotropic glutamate receptors induce differential effects on synaptic transmission in the dentate gyrus and CA1 of the hippocampus in the anaesthetized rat. Davis S, et al. **Neuropharmacology** 1996 Mar; 35(3):337–46

Endogenous adenosine attenuates long–term depression and depotentiation in the CA1 region of the rat hippocampus. de Mendonça A, et al. **Neuropharmacology** 1997 Feb; 36(2):161–7

Midazolam inhibits long–term potentiation through modulation of GABAA receptors. Evans MS, et al. **Neuropharmacology** 1996 Mar;35(3):347–57

Differential mechanisms involved in the effect of nicotinic agonists DMPP and lobeline to release [3H]5–HT from rat hippocampal slices. Lendvai B, et al. **Neuropharmacology** 1996;35(12):1769–77

Modulation of synaptic GABAA receptor function by benzodiazepines in area CA3 of rat hippocampal slice cultures. Poncer JC, et al. **Neuropharmacology** 1996; 35(9–10):1169–79

The novel metabotropic glutamate receptor agonist 2R,4R–APDC potentiates stimulation of phosphoinositide hydrolysis in the rat hippocampus by 3,5–dihydroxyphenylglycine: evidence for a synergistic interaction between group 1 and group 2 receptors. Schoepp DD, et al. **Neuropharmacology** 1996; 35(12):1661–72

Endogenous adenosine on membrane properties of CA1 neurons in rat hippocampal slices during normoxia and hypoxia. Zhu PJ, et al. **Neuropharmacology** 1997 Feb; 36(2):169–76

Spatial memory deficits in patients with unilateral damage to the right hippocampal formation. Abrahams S, et al. **Neuropsychologia** 1997 Jan;35(1):11–24

Genetic correlation of inhibitory gating of hippocampal auditory evoked response and alpha–bungarotoxin–binding nicotinic cholinergic receptors in inbred mouse strains. Stevens KE, et al. **Neuropsychopharmacology** 1996 Aug; 15(2):152–62

Enhancement of postsynaptic sensitivity to dopaminergic agonists induced by neonatal hippocampal lesions. Wan RQ, et al. **Neuropsychopharmacology** 1997 Apr;16(4):259–68

Effect of the AMPA receptor modulator IDRA 21 on LTP in hippocampal slices. Arai A, et al. **Neuroreport** 1996 Sep 2;7(13):2211–5

Long–term potentiation and paired–pulse facilitation in the hippocampal CA1 region. Asztely F, et al. **Neuroreport**

1996 Jul 8;7(10):1609–12
Intact spatial learning following lesions of basal forebrain cholinergic neurons. Baxter MG, et al. **Neuroreport** 1996 May 31;7(8):1417–20
Hippocampal cGMP and cAMP are differentially involved in memory processing of inhibitory avoidance learning. Bernabeu R, et al. **Neuroreport** 1996 Jan 31;7(2):585–8
Further evidence for the involvement of a hippocampal cGMP/cGMP-dependent protein kinase cascade in memory consolidation. Bernabeu R, et al. **Neuroreport** 1997 Jul 7;8(9–10):2221–4
LTP in the lateral perforant path is beta-adrenergic receptor-dependent. Bramham CR, et al. **Neuroreport** 1997 Feb 10;8(3):719–24
Short duration synchronization of human theta rhythm during recognition memory. Burgess AP, et al. **Neuroreport** 1997 Mar 3;8(4):1039–42
beta-Amyloid produces a delayed NMDA receptor-dependent reduction in synaptic transmission in rat hippocampus. Cullen WK, et al. **Neuroreport** 1996 Dec 20;8(1):87–92
Different roles of the left and right parahippocampal regions in verbal recognition: a PET study. Fujii T, et al. **Neuroreport** 1997 Mar 24;8(5):1113–7
Mental navigation along memorized routes activates the hippocampus, precuneus, and insula. Ghaem O, et al. **Neuroreport** 1997 Feb 10;8(3):739–44
Time course of mossy fiber sprouting following bilateral transection of the fimbria/fornix. Hannesson DK, et al. **Neuroreport** 1997 Jul 7;8(9–10):2299–303
Secreted form of beta-amyloid precursor protein shifts the frequency dependency for induction of LTD, and enhances LTP in hippocampal slices. Ishida A, et al. **Neuroreport** 1997 Jul 7;8(9–10):2133–7
Expression of MHC class II CD4+ and ED1 molecules in association with selective hippocampal neuronal degeneration after long-term adrenalectomy. Islam A, et al. **Neuroreport** 1997 Mar 3;8(4):987–90
Persistence of CA1 hippocampal LTP after selective cholinergic denervation. Jouvenceau A, et al. **Neuroreport** 1996 Mar 22;7(4):948–52
Adenovirus-mediated NMDA receptor knockouts in the rat hippocampal CA1 region. Kammesheidt A, et al. **Neuroreport** 1997 Feb 10;8(3):635–8
Human cortico-hippocampal activity related to auditory discrimination revealed by neuromagnetic field. Kikuchi Y, et al. **Neuroreport** 1997 May 6;8(7):1657–61
Midbrain raphe cell firing and hippocampal theta rhythm in urethane-anaesthetized rats. Kocsis B, et al. **Neuroreport** 1996 Nov 25;7(18):2867–72
Long-term potentiation in the perirhinal-hippocampal pathway is NMDA dependent. Liu P, et al. **Neuroreport** 1996 May 17;7(7):1241–4
Relationship between neuronal activity and brain temperature in rats. Moser EI, et al. **Neuroreport** 1996 Jul 29; 7(11):1876–80
Pathway specificity of l-isoproterenol indicates beta-adrenergic modulation of the Schaffer collateral pathway in field CA1 in the rat hippocampal slice. Nejtek V, et al. **Neuroreport** 1997 Feb 10;8(3):745–9
A kappa opioid antagonist blocks sensitization in a rodent model of Parkinson's disease. Newman DD, et al. **Neuroreport** 1997 Feb 10;8(3):669–72
Dorsal hippocampal muscarinic acetylcholine and NMDA receptors disrupt water maze navigation. Riekkinen M, et al. **Neuroreport** 1997 Feb 10;8(3):645–8
GMP reverses the facilitatory effect of glutamate on inhibitory avoidance task in rats. Rubin MA, et al. **Neuroreport** 1996 Sep 2;7(13):2078–80
Multiple-unit responses to pitch changes in rabbits. Ruusuvirta T, et al. **Neuroreport** 1996 May 17;7(7):1266–8
The role of hippocampus and frontal cortex in age-related memory changes: a PET study. Schacter DL, et al. **Neuroreport** 1996 Apr 26;7(6):1165–9
Chronic ethanol retards kindling of hippocampal area CA3. Veatch LM, et al. **Neuroreport** 1997 May 27;8(8):1903–6
Differential regulation of neuronal proteoglycans by activation of excitatory amino acid receptors. Wang W, et al. **Neuroreport** 1997 Feb 10;8(3):659–63
Cytokine modulation of glial glutamate uptake: a possible involvement of nitric oxide. Ye ZC, et al. **Neuroreport** 1996 Sep 2;7(13):2181–5
Similarity of the effects of training and application of serotonin on the electrical activity of live hippocampal slices from rats. Folomkina AA, et al. **Neurosci Behav Physiol** 1997 Mar-Apr;27(2):111–6
Investigation of the influence of a vasopressin analog on the efficiency of glutamatergic transmission in the hippocampus. Kudryashov IE, et al. **Neurosci Behav Physiol** 1996 Sep-Dec;26(5):441–4
ATP-activated cationic and anionic conductances in cultured rat hippocampal neurons. Balachandran C, et al. **Neurosci Lett** 1996 Feb 2;204(1–2):73–6
Ligand-gated ion channels in acutely dissociated rat hippocampal neurons with long dendrites. Barbosa CT, et al. **Neurosci Lett** 1996 Jun 7;210(3):177–80
Electrophysiological properties of rat subicular neurons in vitro. Behr J, et al. **Neurosci Lett** 1996 Dec 6;220(1):41–4
Effects of the retrorubral field stimulation on the excitability of the rat hippocampus in vivo. Casabona A, et al. **Neurosci Lett** 1996 Sep 13;215(3):181–4
Reduced hippocampal in vitro CA1 long-term potentiation in rat offsprings with increased circulating corticosterone during neonatal life. Domenici MR, et al. **Neurosci Lett** 1996 Oct 25;218(1):72–4
Long-term potentiation and long-term depression are induced through pharmacologically distinct NMDA receptors. Hrabetova S, et al. **Neurosci Lett** 1997 Apr 25; 226(2):107–10
Inhibition of calcium channels in rat hippocampal CA1 neurons by conantokin-T. Hsu KS, et al. **Neurosci Lett** 1996 Dec 13;220(2):113–6
Multichannel optical recording of neuronal network activity and synaptic potentiation in dissociated cultures from rat hippocampus. Kawaguchi H, et al. **Neurosci Lett** 1996 Mar 1;205(3):177–80
Differential alteration of hippocampal synaptic strength induced by pituitary adenylate cyclase activating polypeptide-38 (PACAP-38). Kondo T, et al. **Neurosci Lett** 1997 Jan 17;221(2–3):189–92
Linopirdine reduces stimulus intensity threshold for induction of long-term potentiation in the Schaffer collateral/CA1 pathway in rat hippocampal slices. Lampe BJ, et al. **Neurosci Lett** 1997 Jan 31;222(2):135–7
FK506, a Ca2+/calmodulin-dependent phosphatase inhibitor, inhibits the induction of long-term potentiation in the rat hippocampus. Lu YF, et al. **Neurosci Lett** 1996 Feb 23;205(2):103–6
Direct evidence for increase in excitatory amino acids release during mossy fiber LTP in rat hippocampal slices as revealed by the patch sensor methods. Maeda T, et al. **Neurosci Lett** 1997 Mar 14;224(2):103–6
Serotonin and acetylcholine are crucial to maintain hippocampal synapses and memory acquisition in rats. Matsukawa M, et al. **Neurosci Lett** 1997 Jul 11;230(1):13–6
Analytical characterization of spontaneous activity evolution during hippocampal development in the rabbit. Menendez de la Prida L, et al. **Neurosci Lett** 1996 Nov 8;218(3):185–7
Optical recording of rat entorhino-hippocampal system in organotypic culture. Nakagami Y, et al. **Neurosci Lett** 1996 Oct 4;216(3):211–3
Propylthiouracil treatment reduces long-term potentiation in area CA1 of neonatal rat hippocampus. Niemi WD, et al. **Neurosci Lett** 1996 May 31;210(2):127–9
Histamine enhances synaptic transmission in hippocampal slices from hibernating and warm-acclimated Turkish hamsters. Nikmanesh FG, et al. **Neurosci Lett** 1996 May 31;210(2):119–20
The relationship between monkey hippocampus place-related neural activity and action in space. Nishijo H, et al. **Neurosci Lett** 1997 Apr 18;226(1):57–60
Galanin inhibits long-term potentiation at Schaffer collateral-CA1 synapses in guinea-pig hippocampal slices. Sakurai E, et al. **Neurosci Lett** 1996 Jul 5;212(1):21–4
Kindling-like state in rat hippocampal CA1 slices induced by the repeated short-term extracellular K+ increases: the role of L-type Ca(2+)-channels. Semyanov A, et al. **Neurosci Lett** 1997 Feb 28;223(3):177–80
Spatial learning and hippocampal long-term potentiation are not impaired in mdx mice. Sesay AK, et al. **Neurosci Lett** 1996 Jun 28;211(3):207–10
Differential responses between CA1 pyramidal cells and granule cells to ischemic insult in rat hippocampal slices. Shimizu H, et al. **Neurosci Lett** 1996 Jan 26;203(3):195–8
Differential activation of the rat hippocampus and perirhinal cortex by novel visual stimuli and a novel environment. Zhu XO, et al. **Neurosci Lett** 1997 Jun 27;229(2):141–3
A role of Ca2+/calmodulin-dependent protein kinase II in the induction of long-term potentiation in hippocampal CA1 area. Miyamoto E, et al. **Neurosci Res** 1996 Jan; 24(2):117–22 (34 ref.)
Theta-activity-dependent and -independent muscarinic facilitation of long-term potentiation in guinea pig hippocampal slices. Natsume K, et al. **Neurosci Res** 1997 Apr;27(4):335–41
Blockade of calpain proteolytic activity rescues neurons from glutamate excitotoxicity. Rami A, et al. **Neurosci Res** 1997 Jan;27(1):93–7
Effects of coculture with the septum on the expression of long-term potentiation in organotypic hippocampal slice cultures. Yoshida M, et al. **Neurosci Res** 1996 Dec; 26(4):377–85
Different populations of vasoactive intestinal polypeptide-immunoreactive interneurons are specialized to control pyramidal cells or interneurons in the hippocampus. Acsády L, et al. **Neuroscience** 1996 Jul; 73(2):317–34
Effects of glutamate receptor agonists and antagonists on Ca2+ uptake in rat hippocampal slices lesioned by glucose deprivation or by kainate. Alici K, et al. **Neuroscience** 1997 Mar;77(1):97–109
Anoxia blocks the presynaptic control of GABA release at inhibitory terminals in the rat hippocampus. Avoli M, et al. **Neuroscience** 1996 Dec;75(4):999–1002
Synchronous 20 Hz rhythmic activity in hippocampal networks induced by activation of metabotropic glutamate receptors in vitro. Boddeke HW, et al. **Neuroscience** 1997 Feb;76(3):653–8
Distribution and levels of [125I]IGF-I, [125I]IGF-II and [125I]insulin receptor binding sites in the hippocampus of aged memory-unimpaired and -impaired rats. Doré S, et al. **Neuroscience** 1997 Oct;80(4):1033–40
Low-frequency stimulation induces homosynaptic depotentiation but not long-term depression of synaptic transmission in the adult anaesthetized and awake rat hippocampus in vivo. Doyle CA, et al. **Neuroscience** 1997 Mar;77(1):75–85
Soluble macrophage factors trigger apoptosis in cultured hippocampal neurons. Flavin MP, et al. **Neuroscience** 1997 Sep;80(2):437–48
Spatial memory impairment induced by lesion of the mesohippocampal dopaminergic system in the rat. Gasbarri A, et al. **Neuroscience** 1996 Oct;74(4):1037–44
Calcium- and barium-dependent extracellular alkaline shifts evoked by electrical activity in rat hippocampal slices. Grichtchenko II, et al. **Neuroscience** 1996 Dec; 75(4):1117–26
Removal of extracellular calcium after conditioning stimulation disrupts long-term potentiation in the CA1 region of rat hippocampal slices. Katsuki H, et al. **Neuroscience** 1997 Feb;76(4):1113–9
Androgens selectively modulate C-fos messenger RNA induction in the rat hippocampus following novelty. Kerr JE, et al. **Neuroscience** 1996 Oct;74(3):757–66
Dorsal hippocampus field CA1 pyramidal cell responses to a persistent versus an acute nociceptive stimulus and their septal modulation. Khanna S. **Neuroscience** 1997 Apr; 77(3):713–21
Changes in paired-pulse facilitation correlate with induction of long-term potentiation in area CA1 of rat hippocampal slices. Kleschevnikov AM, et al. **Neuroscience** 1997 Feb; 76(3):829–43
Frequency facilitation in the hippocampal slices of conditioned rats. Kudryashova IV. **Neuroscience** 1996 Dec; 75(3):695–702
In vitro autoradiography of ionotropic glutamate receptors in hippocampus and striatum of aged Long-Evans rats: relationship to spatial learning. Nicolle MM, et al. **Neuroscience** 1996 Oct;74(3):741–56
Retrograde degeneration and colchicine protection of basal forebrain cholinergic neurons following hippocampal injections of an immunotoxin against the P75 nerve growth factor receptor. Ohtake T, et al. **Neuroscience** 1997 May; 78(1):123–33
Effects of ventral hippocampal galanin on spatial learning and on in vivo acetylcholine release in the rat. Orgen SO, et al. **Neuroscience** 1996 Dec;75(4):1127–40
Long-term potentiation induced by single volley activation: a mechanism for bicuculline-induced enhancement of synaptic field potentials in the CA1 hippocampal region. Pananceau M, et al. **Neuroscience** 1997 Jul;79(1):95–101
Quantal release of transmitter at a central synapse. Sastry BR, et al. **Neuroscience** 1996 Dec;75(4):987–92
Conditions required for polysynaptic excitation of dentate granule cells by area CA3 pyramidal cells in rat hippocampal slices. Scharfman HE. **Neuroscience** 1996 Jun; 72(3):655–8
Functional evidence for two native GABAA receptor subtypes in adult rat hippocampus and cerebellum. Schmid G, et al. **Neuroscience** 1996 Aug;73(3):697–704
Intracellular calcium redistribution accompanies changes in total tissue Na+, K+ and water during the first two hours of in vitro incubation of hippocampal slices. Siklós L, et al. **Neuroscience** 1997 Aug;79(4):1013–22
Effects of pharmacologically facilitating glutamatergic transmission in the trisynaptic intrahippocampal circuit. Sirvio J, et al. **Neuroscience** 1996 Oct;74(4):1025–35
Modulation of hippocampal synaptic transmission by low concentrations of cell-permeant Ca2+ chelators: effects of Ca2+ affinity, chelator structure and binding kinetics. Spigelman I, et al. **Neuroscience** 1996 Nov;75(2):559–72
Potassium ion- and nitric oxide-induced exocytosis from populations of hippocampal synapses during synaptic maturation in vitro. Sporns O, et al. **Neuroscience** 1997 Oct; 80(4):1057–73
Sprouting and functional recovery in co-cultures between old and young hippocampal organotypic slices. Stoppini L, et al. **Neuroscience** 1997 Oct;80(4):1127–36
Generators for human P300 elicited by somatosensory stimuli using multiple dipole source analysis. Tarkka IM, et al. **Neuroscience** 1996 Nov;75(1):275–87
Lithium enhances synaptic transmission in neonatal rat hippocampus. Valentín A, et al. **Neuroscience** 1997 May; 78(2):385–91
Involvement of silent synapses in the induction of long-term potentiation and long-term depression in neocortical and hippocampal neurons. Voronin LL, et al. **Neuroscience** 1996 Sep;74(2):323–30
Effect of GABA(B) receptors on synaptic interactions in dentate gyrus granule neurons of the rat. Wang S, et al. **Neuroscience** 1997 Jul;79(1):117–27
State-dependent inhibition of Na+ currents by the neuroprotective agent 619C89 in rat hippocampal neurons and in a mammalian cell line expressing rat brain type IIA Na+ channels. Xie XM, et al. **Neuroscience** 1996 Aug; 73(4):951–62
The effects of lindane and long-term potentiation (LTP) on pyramidal cell excitability in the rat hippocampal slice. Albertson TE, et al. **Neurotoxicology** 1997;18(2):469–77
Angiotensin II blockade of long-term potentiation at the perforant path—granule cell synapse in vitro. Armstrong DL, et al. **Peptides** 1996;17(4):689–93
The neuropeptide thyrotropin-releasing hormone modulates GABAergic synaptic transmission on pyramidal neurones of the rat hippocampal slice. Stocca G, et al. **Peptides** 1996; 17(7):1197–202

HIPPOCAMPUS

Novel transient outward K+ current of mature murine hippocampal neurones. Li XY, et al. **Pflugers Arch** 1997 Jun;434(2):195–202

Cognitive dysfunction resulting from hippocampal hyperactivity—a possible cause of anxiety disorder? McNaughton N. **Pharmacol Biochem Behav** 1997 Apr; 56(4):603–11 (69 ref.)

Hippocampal mineralocorticoid, but not glucocorticoid, receptors modulate anxiety-like behavior in rats. Smythe JW, et al. **Pharmacol Biochem Behav** 1997 Mar;56(3):507–13

Spatial and visual discrimination learning in CD1 mice: partial analogy between the effect of lesions to the hippocampus and the amygdala. Ammassari-Teule M, et al. **Physiol Behav** 1996 Jul;60(1):265–71

Selective hippocampal lesions in rats disrupt acquisition and retention of a positive patterning discrimination. Gisquet-Verrier P, et al. **Physiol Behav** 1997 Apr; 61(4):577–89

Roles of the basolateral amygdala and hippocampus in social recognition in rats. Maaswinkel H, et al. **Physiol Behav** 1996 Jul;60(1):55–63

Hippocampal and striatal blood flow during behavior in rats: chronic laser Doppler flowmetry study. Osborne PG. **Physiol Behav** 1997 Apr;61(4):485–92

Sex and intrauterine position influence the size of the gerbil hippocampus. Sherry DF, et al. **Physiol Behav** 1996 Dec; 60(6):1491–4

Bicuculline-induced epileptiform activity in rat hippocampal slices: suppression by Aconitum alkaloids. Ameri A, et al. **Planta Med** 1997 Jun;63(3):228–32

Toward a molecular definition of long-term memory storage. Bailey CH, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13445–52 (69 ref.)

Involvement of hippocampal cAMP/cAMP-dependent protein kinase signaling pathways in a late memory consolidation phase of aversively motivated learning in rats. Bernabeu R, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7041–6

Induction of long-term potentiation is associated with major ultrastructural changes of activated synapses. Buchs PA, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):8040–5

Context-sensitive synaptic plasticity and temporal-to-spatial transformations in hippocampal slices. Buonomano DV, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10403–8

Place cells and place navigation. Bures J, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):343–50 (63 ref.)

Distinct forms of short-term plasticity at excitatory synapses of hippocampus and neocortex. Castro-Alamancos MA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 15;94(8):4161–6

Late memory-related genes in the hippocampus revealed by RNA fingerprinting. Cavallaro S, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9669–73

Cooperative interactions in the induction of long-term potentiation and depression of synaptic excitation between hippocampal CA3-CA1 cell pairs in vitro. Debanne D, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11225–30

The hippocampus and memory for orderly stimulus relations. Dusek JA, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24; 94(13):7109–14

Functional organization of the hippocampal memory system. Eichenbaum H, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13500–7 (51 ref.)

Head direction cells and episodic spatial information in rats without a hippocampus. Golob EJ, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7645–50

Antisense oligodeoxynucleotide-mediated disruption of hippocampal cAMP response element binding protein levels impairs consolidation of memory for water maze training. Guzowski JF, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2693–8

Ensemble codes involving hippocampal neurons are at risk during delayed performance tests. Hampson RE, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13487–93

Rescuing impairment of long-term potentiation in fyn-deficient mice by introducing Fyn transgene. Kojima N, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4761–5

Muscarinic acetylcholine receptor expression in memory circuits: implications for treatment of Alzheimer disease. Levey AI. **Proc Natl Acad Sci U S A** 1996 Nov 26; 93(24):13541–6 (64 ref.)

Synaptic vesicle endocytosis mediates the entry of tetanus neurotoxin into hippocampal neurons. Matteoli M, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13310–5

Experience-dependent, asymmetric expansion of hippocampal place fields. Mehta MR, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8918–21

Deficits in memory and hippocampal long-term potentiation in mice with reduced calbindin D28K expression. Molinari S, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23; 93(15):8028–33

Morphological plasticity of dendritic spines in central neurons is mediated by activation of cAMP response element binding protein. Murphy DD, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1482–7

Glycine-induced long-term potentiation is associated with structural and functional modifications of alpha-amino-3-hydroxyl-5-methyl-4-isoxazolepropionic acid receptors. Musleh W, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9451–6

Ca2+/calmodulin-dependent protein kinase II phosphorylation of the presynaptic protein synapsin I is persistently increased during long-term potentiation. Nayak AS, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15451–6

Progressive entorhinal cortex lesions accelerate hippocampal sprouting and spare spatial memory in rats. Ramirez JJ, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15512–7

Distinct short-term plasticity at two excitatory synapses in the hippocampus. Salin PA, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13304–9

Long-term potentiation involves increases in the probability of neurotransmitter release. Schulz PE. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5888–93

Structure and function of declarative and nondeclarative memory systems. Squire LR, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13515–22 (66 ref.)

Memory systems in the brain and localization of a memory. Thompson RF, et al. **Proc Natl Acad Sci U S A** 1996 Nov 26;93(24):13438–44 (104 ref.)

Novel expression mechanism for synaptic potentiation: alignment of presynaptic release site and postsynaptic receptor. Xie X, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6983–8

Extracellular calcium sensed by a novel cation channel in hippocampal neurons. Xiong Z, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):7012–7

Learning to find your way: a role for the human hippocampal formation. Maguire EA, et al. **Proc R Soc Lond B Biol Sci** 1996 Dec 22;263(1377):1745–50

Thyroid hormone regulates Na+ currents in cultured hippocampal neurons from postnatal rats. Potthoff O, et al. **Proc R Soc Lond B Biol Sci** 1997 Mar 22; 264(1380):367–73

Nicotinic acetylcholine receptors on hippocampal neurons: cell compartment-specific expression and modulatory control of channel activity. Albuquerque EX, et al. **Prog Brain Res** 1996;109:111–24 (88 ref.)

Development, survival and regeneration of rat cholinergic septohippocampal neurons: in vivo and in vitro studies. Frotscher M, et al. **Prog Brain Res** 1996;109:331–45

Spatial, behavioral and sensory correlates of hippocampal CA1 complex spike cell activity: implications for information processing functions. Wiener SI. **Prog Neurobiol** 1996 Jul;49(4):335–61 (104 ref.)

Receptor-mediated activation of protein kinase C in hippocampal long-term potentiation: facts, problems and implications [see comments] Angenstein F, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Apr; 21(3):427–54 (113 ref.). Comment in: Prog Neuropsychopharmacol Biol Psychiatry 1997 Apr;21(3):373–8.

In vitro hippocampal dentate frequency potentiation induction as model to detect electrophysiological correlates of some cognitive impairments in striatally-lesioned rats. Domenici MR, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1996 Aug; 20(6):999–1010

Protein kinase C in synaptic plasticity: changes in the in situ phosphorylation state of identified pre- and postsynaptic substrates [see comments] Ramakers GM, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Apr; 21(3):455–86 (193 ref.). Comment in: Prog Neuropsychopharmacol Biol Psychiatry 1997 Apr;21(3):373–8.

Learning-induced alterations in hippocampal PKC-immunoreactivity: a review and hypothesis of its functional significance [see comments] Van der Zee EA, et al. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Apr;21(3):531–72 (144 ref.). Comment in: Prog Neuropsychopharmacol Biol Psychiatry 1997 Apr;21(3):373–8.

Effects of entorhinal cortex lesion on learning behavior and on hippocampus in the rat. Miwa C, et al. **Psychiatry Clin Neurosci** 1996 Aug;50(4):223–30

Influence of the hippocampus/subiculum on antidiuretic hormone levels during stress. Goldman MB, et al. **Psychoneuroendocrinology** 1996 Oct;21(7):593–7

Neonatal lesions of the rat ventral hippocampus result in hyperlocomotion and deficits in social behaviour in adulthood. Sams-Dodd F, et al. **Psychopharmacology (Berl)** 1997 Aug;132(3):303–10

Roles of dopamine receptors in long-term depression: enhancement via D1 receptors and inhibition via D2 receptors. Chen Z, et al. **Receptors Channels** 1996;4(1):1–8

Excitatory action of angiotensins II and IV on hippocampal neuronal activity in urethane anesthetized rats. Albrecht D, et al. **Regul Pept** 1997 Jun 18;70(2-3):105–9

Associative synaptic plasticity in hippocampus and visual cortex: cellular mechanisms and functional implications. Debanne D. **Rev Neurosci** 1996 Jan-Mar;7(1):29–46 (160 ref.)

Serotonin, aging and cognitive functions of the hippocampus. Richter-Levin G, et al. **Rev Neurosci** 1996 Apr-Jun; 7(2):103–13 (96 ref.)

Nitric oxide, a neuronal messenger. Its role in the hippocampus neuronal plasticity. Salemme E, et al. **Riv Biol** 1996;89(1):87–107 (37 ref.) **(Eng, Ita)**

A role for endothelial NO synthase in LTP revealed by adenovirus-mediated inhibition and rescue. Kantor DB, et al. **Science** 1996 Dec 6;274(5293):1744–8

Maternal care, hippocampal glucocorticoid receptors, and hypothalamic-pituitary-adrenal responses to stress [see comments] Liu D, et al. **Science** 1997 Sep 12; 277(5332):1659–62. Comment in: Science 1997 Sep 12;277(5332):1620–1.

"Replay" of hippocampal "memories" [letter; comment] Moore GP, et al. **Science** 1996 Nov 15;274(5290):1216–7. Comment on: Science 1996 Mar 29;271(5257):1870–3.

New knockout mice point to molecular basis of memory [news] Roush W. **Science** 1997 Jan 3;275(5296):32–3

Potentiation of glutamatergic EPSPs in rat CA1 hippocampal neurons after selective cholinergic denervation by 192 IgG-saporin. Jouvenceau A, et al. **Synapse** 1997 Jul; 26(3):292–300

Transient and persistent consequences of acute stress on long-term potentiation (LTP), synaptic efficacy, theta rhythms and bursts in area CA1 of the hippocampus. Shors TJ, et al. **Synapse** 1997 Jul;26(3):209–17

Interactions among paired-pulse facilitation and post-tetanic and long-term potentiation in the mossy fiber-CA3 pathway in rat hippocampus. Son H, et al. **Synapse** 1996 Aug;23(4):302–11

Coloboma contiguous gene deletion encompassing Snap alters hippocampal plasticity. Steffensen SC, et al. **Synapse** 1996 Mar;22(3):281–9

Comparing long-term depression with pharmacologically induced synaptic attenuations in young rat hippocampi. Xiao MY, et al. **Synapse** 1997 Aug;26(4):329–40

Sprouting in the hippocampus is layer-specific. Frotscher M, et al. **Trends Neurosci** 1997 May;20(5):218–23 (52 ref.)

Recurrent inhibition model of hippocampal CA1 in vivo [letter; comment] Leung LS. **Trends Neurosci** 1996 Nov; 19(11):468–70. Comment on: Trends Neurosci 1996 May;19(5):202–8.

[The retrograde messengers in hippocampal long-term potentiation] Hu ZA, et al. **Sheng Li Ko Hsueh Chin Chan** 1996 Jan;27(1):82–4 (7 ref.) **(Chi)**

[Food restriction and neuronal growth in the aging brain. Increase in a neuronal growth marker in the hippocampus and thalamus] Popa-Wagner A, et al. **Fortschr Med** 1996 Nov 30;114(33):456 **(Ger)**

[Antidepressive agents and the cerebral signal transduction system—hippocampal neuromodulation and the action mechanism of antidepressants] Tajima O, et al. **Seishin Shinkeigaku Zasshi** 1996;98(11):909–15 (4 ref.) **(Jpn)**

[The effects of a fimbria-fornix lesion on distance discrimination in rats] Sakamoto T, et al. **Shinrigaku Kenkyu** 1997 Apr;68(1):38–42 (Eng. Abstr.) **(Jpn)**

[The use of geometrical information and featural information in fimbria-fornix-lesioned rats] Sakamoto T, et al. **Shinrigaku Kenkyu** 1996 Jun;67(2):110–7 (Eng. Abstr.) **(Jpn)**

[Effect of amiridine on the state of conditioned reflex in rats with injured hippocampus] Mering TA, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):173–5 **(Rus)**

[The organization of the afferent and efferent projections in the system of the subiculum-supraoptic area of the hypothalamus in rats] Lutsik EA. **Fiziol Zh Im I M Sechenova** 1996 Apr;82(4):123–6 **(Rus)**

[The similarity and difference between dogs assessed by the indices of the summary electrical activity of the frontal cortex, hippocampus, amygdala and hypothalamus] Chilingarian LI, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Nov-Dec; 46(6):1018–31 (Eng. Abstr.) **(Rus)**

[The mathematical modelling of Ca2(+)-dependent postsynaptic processes in the hippocampus (the induction of long-term potentiation and long-term depression)] Murzina GB, et al. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1996 Jul-Aug; 46(4):674–88 (Eng. Abstr.) **(Rus)**

[The general principles of synaptic plasticity in the neocortex, hippocampus and cerebellum] Sil'skiĭ IG. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 Mar-Apr; 47(2):374–92 (73 ref.) (Eng. Abstr.) **(Rus)**

[The effect of hippocampectomy on the acquisition and recovery of a conditioned reflex to time in rats] Vodolazhskaia MG. **Zh Vyssh Nerv Deiat Im I P Pavlova** 1997 May-Jun; 47(3):480–6 (Eng. Abstr.) **(Rus)**

PHYSIOPATHOLOGY

Axonal growth and neosynaptogenesis in human and experimental hippocampal epilepsy. Babb TL. **Adv Neurol** 1997;72:45–51 (18 ref.)

Excitotoxic mechanisms in focal ischemia. Hossmann KA. **Adv Neurol** 1996;71:69–74

No loss of somatostatin-immunoreactive neurons in the hippocampal dentate hilus of alcohol-withdrawal-kindled rats. Ulrichsen J, et al. **Alcohol Alcohol** 1996 Jul;31(4):411–9

Effects of alcohol exposure and artificial rearing during development on septal and hippocampal neurotransmitters in adult rats. Kelly SJ. **Alcohol Clin Exp Res** 1996 Jun; 20(4):670–6

Long-term potentiation in the hippocampus of fragile X knockout mice. Godfraind JM, et al. **Am J Med Genet** 1996 Aug 9;64(2):246–51

Stress effects on morphology and function of the hippocampus. McEwen BS, et al. **Ann N Y Acad Sci** 1997 Jun 21;821:271–84 (70 ref.)

Comparison of effects of global cerebral ischaemia on spatial learning in the standard and radial water maze: relationship of hippocampal damage to performance. Nelson A, et al. **Behav Brain Res** 1997 Apr;85(1):93–115

Psychological stress impairs spatial working memory: relevance to electrophysiological studies of hippocampal function. Diamond DM, et al. **Behav Neurosci** 1996 Aug; 110(4):661–72

Slow-wave activity in the spectral analysis of the electroencephalogram and volumes of hippocampus in subgroups of Alzheimer's disease patients. Helkala EL, et al. **Behav Neurosci** 1996 Dec;110(6):1235–43

Impaired recognition memory in patients with lesions limited to the hippocampal formation. Reed JM, et al. **Behav Neurosci** 1997 Aug;111(4):667–75

Dissociations among the anxiolytic effects of septal, hippocampal, and amygdaloid lesions. Treit D, et al. **Behav Neurosci** 1997 Jun;111(3):653–8

No loss of hippocampal hilar somatostatinergic neurons after repeated electroconvulsive shock: a combined stereological and in situ hybridization study. Dalby NO, et al. **Biol Psychiatry** 1996 Jul 1;40(1):54–60

Block by N6-L-phenylisopropyl-adenosine of the electrophysiological and morphological correlates of hippocampal ischaemic injury in the gerbil. Domenici MR, et al. **Br J Pharmacol** 1996 Jul;118(6):1551–7

Ictal semiology in hippocampal versus extrahippocampal temporal lobe epilepsy. Gil-Nagel A, et al. **Brain** 1997 Jan; 120 (Pt 1):183–92

Disorientation in amnesia. A confusion of memory traces. Schnider A, et al. **Brain** 1996 Oct;119 (Pt 5):1627–32

The interpretation of sentence ambiguity in patients with unilateral focal brain surgery. Zaidel DW, et al. **Brain Lang** 1995 Dec;51(3):458–68

Translational suppression of calpain I reduces NMDA-induced spectrin proteolysis and pathophysiology in cultured hippocampal slices. Bednarski E, et al. **Brain Res** 1995 Oct 2;694(1-2):147–57

Hippocampally dependent and independent chronic spatial navigational deficits following parasagittal fluid percussion brain injury in the rat. Bramlett HM, et al. **Brain Res** 1997 Jul 11;762(1-2):195–202

Interspike intervals during interictal periods in human temporal lobe epilepsy. Colder BW, et al. **Brain Res** 1996 May 6;719(1-2):96–103

Anoxia-induced depolarization in CA1 hippocampal neurons: role of Na+-dependent mechanisms. Fung ML, et al. **Brain Res** 1997 Jul 11;762(1-2):97–102

Effects of in vivo perforant path kindling on 0-Mg(2+)-induced CA1 burst activity in rat hippocampal slices. Krahl SE, et al. **Brain Res** 1996 Jun 3;723(1-2):196–8

Selegiline treatment after transient global ischemia in gerbils enhances the survival of CA1 pyramidal cells in the hippocampus. Lahtinen H, et al. **Brain Res** 1997 May 23; 757(2):260–7

Astressin, a novel and potent CRF antagonist, is neuroprotective in the hippocampus when administered after a seizure. Maecker H, et al. **Brain Res** 1997 Jan 2; 744(1):166–70

Protective effect of MK-801 on the anoxia-aglycemia induced damage in the fluorocitrate-treated hippocampal slice of the rat. Nakanishi H, et al. **Brain Res** 1996 Sep 2;732(1-2):232–6

Cell swelling exacerbates hypoxic neuronal damage in rat hippocampal slices. Payne RS, et al. **Brain Res** 1996 Jun 3;723(1-2):210–3

The effects of traumatic brain injury on inhibition in the hippocampus and dentate gyrus. Reeves TM, et al. **Brain Res** 1997 May 16;757(1):119–32

Delayed development of spontaneous seizures and prolonged convulsive state in rats after massed stimulation of the anterior piriform cortex. Timofeeva OA, et al. **Brain Res** 1997 Apr 18;754(1-2):227–38

Intraischemic hypothermia during pretreatment with sublethal ischemia reduces the induction of ischemic tolerance in the gerbil hippocampus. Wada K, et al. **Brain Res** 1997 Jan 23;746(1-2):301–4

Postischemic, systemic administration of polyamine-modified superoxide dismutase reduces hippocampal CA1 neurodegeneration in rat global cerebral ischemia. Wengenack TM, et al. **Brain Res** 1997 Apr 18; 754(1-2):46–54

Neuropeptide Y inhibits hippocampal seizures and wet dog shakes. Woldbye DP, et al. **Brain Res** 1996 Oct 21; 737(1-2):162–8

Recurrent seizures in immature rats: effect on auditory and visual discrimination. Neill JC, et al. **Brain Res Dev Brain Res** 1996 Sep 2;95(2):283–92

GABA metabolism during status epilepticus in the developing rat brain. Sankar R, et al. **Brain Res Dev Brain Res** 1997 Jan 2;98(1):60–4

Excitation and inhibition in epilepsy. Engel J Jr. **Can J Neurol Sci** 1996 Aug;23(3):167–74 (59 ref.)

Glutamate AMPA receptors in the fascia dentata of human and kainate rat hippocampal epilepsy. Babb TL, et al. **Epilepsy Res** 1996 Dec;26(1):193–205

Post-ictal depression transiently inhibits induction of LTP in area CA1 of the rat hippocampal slice. Barr DS, et al. **Epilepsy Res** 1997 May;27(2):111–8

Neuroethological and morphological (Neo-Timm staining) correlates of limbic recruitment during the development of audiogenic kindling in seizure susceptible Wistar rats. Garcia-Cairasco N, et al. **Epilepsy Res** 1996 Dec; 26(1):177–92

Amygdala-hippocampus relationships in temporal lobe seizures: a phase-coherence study. Gotman J, et al. **Epilepsy Res** 1996 Sep;25(1):51–7

Vulnerability and plasticity of the GABA system in the pilocarpine model of spontaneous recurrent seizures. Houser CR, et al. **Epilepsy Res** 1996 Dec;26(1):207–18

Review of the role of inhibitory neurons in chronic epileptic foci induced by intracerebral tetanus toxin. Jefferys JG, et al. **Epilepsy Res** 1996 Dec;26(1):59–66

Hypoxia-induced hyperexcitability in vivo and in vitro in the immature hippocampus. Jensen FE, et al. **Epilepsy Res** 1996 Dec;26(1):131–40 (72 ref.)

Lack of hippocampal involvement in a rat model of petit mal epilepsy. Kandel A, et al. **Epilepsy Res** 1996 Mar; 23(2):123–7

Properties of interictal discharges induced by hippocampal kindling. Kogure S. **Epilepsy Res** 1997 May;27(2):139–48

Analysis of the kinetics of synaptic inhibition points to a reduction in GABA release in area CA1 of the genetically epileptic mouse, El. Lambert JD, et al. **Epilepsy Res** 1996 Dec;26(1):15–23

Neuron loss, mossy fiber sprouting, and interictal spikes after intrahippocampal kainate in developing rats. Leite JP, et al. **Epilepsy Res** 1996 Dec;26(1):219–31

The pathogenic and progressive features of chronic human hippocampal epilepsy. Mathern GW, et al. **Epilepsy Res** 1996 Dec;26(1):151–61

Bilateral hippocampal interictal spiking and kindling expression in rabbits. Timofeeva OA, et al. **Epilepsy Res** 1996 Nov;25(3):149–59

Age dependence of NMDA receptor involvement in epileptiform activity in rat hippocampal slices. Wang C, et al. **Epilepsy Res** 1996 Mar;23(2):105–13

Chronic epilepsy with damage restricted to the hippocampus: possible mechanisms. Wasterlain CG, et al. **Epilepsy Res** 1996 Dec;26(1):255–65

Astrocytes may contribute to the latent period in progressive neuron loss, axon sprouting, and chronic seizures in rat kainate hippocampal epilepsy. Babb TL, et al. **Epilepsy Res Suppl** 1996;12:343–54

Hippocampal kindling leads to an enhanced expression of glutamate receptor-A, -B, and -C Flip variants in dentate granule cells. Kamphuis W, et al. **Epilepsy Res Suppl** 1996; 12:257–63

Selective vulnerability to perforant path stimulation: role of NMDA and non-NMDA receptors. Penix LP, et al. **Epilepsy Res Suppl** 1996;12:63–73

Seizure-induced molecular changes, sprouting and synaptogenesis of hippocampal mossy fibers. Pollard H, et al. **Epilepsy Res Suppl** 1996;12:355–63 (32 ref.)

Axonal sprouting of CA1 pyramidal cells in hyperexcitable hippocampal slices of kainate-treated rats. Perez Y, et al. **Eur J Neurosci** 1996 Apr;8(4):736–748

Expression of heat shock protein-70 and limbic seizure-induced neuronal death in the rat brain. Zhang X, et al. **Eur J Neurosci** 1996 Jul;8(7):1432–40

Anti- and proconvulsive actions of levcromakalim, an opener of ATP-sensitive K+ channel, in the model of hippocampus-generating partial seizures in rats. Katsumori H, et al. **Eur J Pharmacol** 1996 Sep 5;311(1):37–44

Bicuculline induces ictal seizures in the intact hippocampus recorded in vitro. Khalilov I, et al. **Eur J Pharmacol** 1997 Jan 29;319(2-3):R5–6

Changes in the bioenergetic state of rat hippocampus during 2.5 min of ischemia, and prevention of cell damage by cyclosporin A in hyperglycemic subjects. Folbergrová J, et al. **Exp Brain Res** 1997 Mar;114(1):44–50

Seizure-induced damage to somatostatin-immunoreactive neurons in the rat hippocampus is regulated by fimbria-fornix transection. Jolkkonen J, et al. **Exp Neurol** 1997 May;145(1):141–53

Unilateral neonatal hippocampal lesion alters septal innervation and trophism of the entorhinal cortex. van Praag H, et al. **Exp Neurol** 1996 Sep;141(1):130–40

Changes in dopaminergic neurons of the mesocorticolimbic system in Parkinson's disease. Dymecki J, et al. **Folia Neuropathol** 1996;34(2):102–6

Neonatal hippocampal damage in rats: long-term spatial memory deficits and associations with magnitude of hippocampal damage. Altemus KL, et al. **Hippocampus** 1997;7(4):403–15

Cerebral ischemia: are the memory deficits associated with hippocampal cell loss? Bachevalier J, et al. **Hippocampus** 1996;6(5):553–60 (84 ref.)

The influence of age of pH regulation in hippocampal slices before, during, and after anoxia. Roberts EL Jr, et al. **J Cereb Blood Flow Metab** 1997 May;17(5):560–6

Transient ischemia induces an early decrease of synaptic transmission in CA1 neurons of rat hippocampus: electrophysiologic study in brain slices. Shinno K, et al. **J Cereb Blood Flow Metab** 1997 Sep;17(9):955–66

Anisocoria—a pupillary sign of hippocampal lesions: an experimental study in the cat by using neurotoxins. Hashida N, et al. **J Hirnforsch** 1997;38(1):9–26

Asymmetric hippocampal atrophy and extra-hippocampal epilepsy following refractory status epilepticus in an adult. Chee MW, et al. **J Neurol Sci** 1997 Apr 15;147(2):203–4

Spatiotemporal distribution of intracellular calcium transients during epileptiform activity in guinea pig hippocampal slices. Albowitz B, et al. **J Neurophysiol** 1997 Jan; 77(1):491–501

Contribution of ATP-sensitive potassium channels to hypoxic hyperpolarization in rat hippocampal CA1 neurons in vitro. Fujimura N, et al. **J Neurophysiol** 1997 Jan; 77(1):378–85

Differential epilepsy-associated alterations in postsynaptic GABA(A) receptor function in dentate granule and CA1 neurons. Gibbs JW 3rd, et al. **J Neurophysiol** 1997 Apr; 77(4):1924–38

Electric field suppression of epileptiform activity in hippocampal slices. Gluckman BJ, et al. **J Neurophysiol** 1996 Dec;76(6):4202–5

Decrement of GABAA receptor-mediated inhibitory postsynaptic currents in dentate granule cells in epileptic hippocampus. Isokawa M. **J Neurophysiol** 1996 May; 75(5):1901–8

Role of intrinsic burst firing, potassium accumulation, and electrical coupling in the elevated potassium model of hippocampal epilepsy. Jensen MS, et al. **J Neurophysiol** 1997 Mar;77(3):1224–33

Factors that reverse the persistent depolarization produced by deprivation of oxygen and glucose in rat hippocampal CA1 neurons in vitro. Yamamoto S, et al. **J Neurophysiol** 1997 Aug;78(2):903–11

Mediation by intracellular calcium-dependent signals of hypoxic hyperpolarization in rat hippocampal CA1 neurons in vitro. Yamamoto S, et al. **J Neurophysiol** 1997 Jan; 77(1):386–92

Selective alteration of long-term potentiation-induced transcriptional response in hippocampus of aged, memory-impaired rats. Lanahan A, et al. **J Neurosci** 1997 Apr 15;17(8):2876–85

A role for synaptic and network plasticity in controlling epileptiform activity in CA1 in the kainic acid-lesioned rat hippocampus in vitro. Bernard C, et al. **J Physiol (Lond)** 1996 Aug 15;495 (Pt 1):127–42

Scrapie infection alters the membrane and synaptic properties of mouse hippocampal CA1 pyramidal neurones. Johnston AR, et al. **J Physiol (Lond)** 1997 Apr 1;500 (Pt 1):1–15

AMPA-selective glutamate receptor subtype immunoreactivity in the hippocampal dentate gyrus of patients with Alzheimer disease. Evidence for hippocampal plasticity. Armstrong DM, et al. **Mol Chem Neuropathol** 1996 May-Aug;28(1-3):59–64

Scrapie infection of transgenic mice leads to network and intrinsic dysfunction of cortical and hippocampal neurones. Jefferys JGR, et al. **Neurobiol Dis** 1994 Nov;1(1-2):25–30

Effects of postoperative housing conditions on functional recovery in rats with lesions of the hippocampus, subiculum, or entorhinal cortex. Galani R, et al. **Neurobiol Learn Mem** 1997 Jan;67(1):43–56

Postoperative environmental enrichment attenuates fimbria-fornix lesion-induced impairments in Morris maze performance. van Rijzingen IM, et al. **Neurobiol Learn Mem** 1997 Jan;67(1):21–8

Topographic associations between DNA fragmentation and Alzheimer's disease neuropathology in the hippocampus. Sugaya K, et al. **Neurochem Int** 1997 Aug;31(2):275–81

Ubiquitin-mediated stress response in a rat model of brain transient ischemia/hypoxia. Gubellini P, et al. **Neurochem Res** 1997 Jan;22(1):93–100

Repetitive hypoxic exposure of brain slices and electrophysiological responses as an experimental model for investigation of cerebroprotective measurements. Wassmann H, et al. **Neurol Res** 1996 Aug;18(4):367–9

Hippocampal pathology and pathophysiology in temporal lobe epilepsy. Sloviter RS. **Neurologia** 1996 Dec;11 Suppl 4:29–32 (39 ref.)

Characteristics of temporal lobe epilepsy with mesial temporal sclerosis, with special reference to psychotic episodes. Kanemoto K, et al. **Neurology** 1996 Nov; 47(5):1199–203

Mechanisms of hippocampal reoxygenation injury. Treatment with antioxidants. Horáková L, et al. **Neuropharmacology** 1997 Feb;36(2):177–84

The role of the hippocampus in recognition memory. Baxendale SA. **Neuropsychologia** 1997 May;35(5):591–8

Remote memory in patients with acute brain injuries. Leplow B, et al. **Neuropsychologia** 1997 Jun;35(6):881–92

Differentiating the roles of the hippocampal complex and the neocortex in long-term memory storage: evidence from the study of semantic dementia and Alzheimer's disease. Graham KS, et al. **Neuropsychology** 1997 Jan;11(1):77–89

Bilateral ischemic tolerance of rat hippocampus induced by prior unilateral transient focal ischemia: relationship to c-fos mRNA expression. Belayev L, et al. **Neuroreport** 1996 Dec 20;8(1):55–9

NMDA receptor-mediated synapses between CA1 neurones: activation by ischaemia. Tsintsadze T, et al. **Neuroreport** 1996 Nov 4;7(15-17):2679–82

The biphasic opening of the blood-brain barrier in the cortex and hippocampus after traumatic brain injury in rats. Başkaya MK, et al. **Neurosci Lett** 1997 Apr 18;226(1):33–6

Spread of low Mg2+ induced epileptiform activity from the rat entorhinal cortex to the hippocampus after kindling studied in vitro. Behr J, et al. **Neurosci Lett** 1996 Sep 20; 216(1):41–4

Selective facilitation of kindled seizures from the amygdala after hippocampal lesions induced by perforant path stimulation. Mazarati AM, et al. **Neurosci Lett** 1997 Mar 21;224(3):165–8

Single-epoch neuromagnetic signals during epileptiform

activities in guinea pig longitudinal CA3 slices. Okada YC, et al. **Neurosci Lett** 1996 Jun 28;211(3):155–8

Increase of hypoxic tolerance in rat hippocampal slices following 3-nitropropionic acid is not mediated by endogenous nerve growth factor. Riepe MW, et al. **Neurosci Lett** 1996 Jun 14;211(1):9–12

Pretreatment with L-kynurenine, the precursor to the excitatory amino acid antagonist kynurenic acid, suppresses epileptiform activity in combined entorhinal/hippocampal slices. Scharfman HE, et al. **Neurosci Lett** 1997 Mar 14; 224(2):115–8

The decreased susceptibility to the development of in vitro kindling-like state in hippocampal CA1 slices of rats sensitive to audiogenic seizures. Semyanov A, et al. **Neurosci Lett** 1997 Jul 25;230(3):187–90

Epileptic afterdischarge in the hippocampal–entorhinal system: current source density and unit studies. Bragin A, et al. **Neuroscience** 1997 Feb;76(4):1187–203

In vivo intracellular demonstration of an ischemia-induced postsynaptic potential from CA1 pyramidal neurons in rat hippocampus. Gao TM, et al. **Neuroscience** 1996 Dec; 75(3):665–9

Effects of pilocarpine and kainate-induced seizures on N-methyl-D-aspartate receptor gene expression in the rat hippocampus. Lasón W, et al. **Neuroscience** 1997 Jun; 78(4):997–1004

Shortened-duration GABA(A) receptor-mediated synaptic potentials underlie enhanced CA1 excitability in a chronic model of temporal lobe epilepsy. Mangan PS, et al. **Neuroscience** 1997 Oct;80(4):1101–11

Multiple-unit recordings during slow field-potential shifts in low-[Ca2+]0 solutions in rat hippocampal and cortical slices. Patrylo PR, et al. **Neuroscience** 1996 Sep; 74(1):107–18

Serotonin blocks different patterns of low Mg2+-induced epileptiform activity in rat entorhinal cortex, but not hippocampus. Schmitz D, et al. **Neuroscience** 1997 Jan; 76(2):449–58

Ortho-substituted 2,2',3,5',6-pentachlorobiphenyl (PCB 95) alters rat hippocampal ryanodine receptors and neuroplasticity in vitro: evidence for altered hippocampal function. Wong PW, et al. **Neurotoxicology** 1997; 18(2):443–56

Inhibitory effect of neuropeptide y on epileptiform activity in the frontal cortex and hippocampus in vitro. Bijak M. **Pol J Pharmacol** 1995 Sep–Oct;47(5):461–3

Long-lasting changes in synaptic excitability induced by anoxia in the rat hippocampus. Tancredi V. **Prog Neuropsychopharmacol Biol Psychiatry** 1997 Jan; 21(1):211–32

Evidence that the median raphé nucleus--dorsal hippocampal pathway mediates diazepam withdrawal-induced anxiety. Andrews N, et al. **Psychopharmacology (Berl)** 1997 Apr;130(3):228–34

Selective N-type calcium channel antagonist omega conotoxin MVIIA is neuroprotective against hypoxic neurodegeneration in organotypic hippocampal-slice cultures. Pringle AK, et al. **Stroke** 1996 Nov;27(11):2124–30

Involvement of nitric oxide in low glucose-mediated inhibition of hippocampal long-term potentiation. Izumi Y, et al. **Synapse** 1997 Mar;25(3):258–62

[Kindling induced mossy fiber sprouting has no functional significance in developing seizure discharges in rats] Ohata H, et al. **Nippon Ika Daigaku Zasshi** 1997 Apr;64(2):154–62 (Eng. Abstr.) **(Jpn)**

RADIATION EFFECTS

Hippocampal lesions induced by ionizing radiation: a parametric study. Moreira RC, et al. **J Neurosci Methods** 1997 Jul 18;75(1):41–7

Microwave superheating enhances immunocytochemistry in the freshly frozen rat brain. DeHart BW, et al. **Neuroreport** 1996 Nov 4;7(15–17):2691–4

SECRETION

Adenosine A2A receptor stimulation increases release of acetylcholine from rat hippocampus but not striatum, and does not affect catecholamine release. Jin S, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Jan; 355(1):48–56

Release of TNF alpha in the rat hippocampus following epileptic seizures and excitotoxic neuronal damage. de Bock F, et al. **Neuroreport** 1996 Apr 26;7(6):1125–9

GABA release is enhanced in mouse hippocampal slices in cell-damaging conditions. Saransaari P, et al. **Proc West Pharmacol Soc** 1996;39:11–4

[Inhibitory effect of ketamine on depolarization-induced norepinephrine release in the rat ventral hippocampus investigated by in vivo microdialysis] Mae T, et al. **Masui** 1997 Mar;46(3):331–7 (Eng. Abstr.) **(Jpn)**

SURGERY

Low grade glioma in intractable epilepsy: lesionectomy versus epilepsy surgery. Lombardi D, et al. **Acta Neurochir Suppl (Wien)** 1997;68:70–4

Mesial atrophy and outcome after amygdalohippocampectomy or temporal lobe removal. Arruda F, et al. **Ann Neurol** 1996 Sep;40(3):446–50

Correlation of widespread preoperative magnetic resonance imaging changes with unsuccessful surgery for hippocampal sclerosis. Sisodiya SM, et al. **Ann Neurol** 1997 Apr;41(4):490–6

Surgery for intractable epilepsy secondary to viral encephalitis. Davies KG, et al. **Br J Neurosurg** 1995; 9(6):759–62

Double dissociations of memory and executive functions in working memory tasks following frontal lobe excisions, temporal lobe excisions or amygdalo-hippocampectomy in man. Owen AM, et al. **Brain** 1996 Oct;119 (Pt 5):1597–615

The interpretation of sentence ambiguity in patients with unilateral focal brain surgery. Zaidel DW, et al. **Brain Lang** 1995 Dec;51(3):458–68

Seizure-induced damage to somatostatin-immunoreactive neurons in the rat hippocampus is regulated by fimbria-fornix transection. Jolkkonen J, et al. **Exp Neurol** 1997 May;145(1):141–53

A reliable system of ventricular coordinates for the cartography and stereotaxy of the amygdala (and anterior hippocampus) in macaques. Percheron G. **J Neurosci Methods** 1997 Jul 18;75(1):5–14

Subtemporal transparahippocampal amygdalohippocampectomy for surgical treatment of mesial temporal lobe epilepsy. Technical note [see comments] Park TS, et al. **J Neurosurg** 1996 Dec; 85(6):1172–6. Comment in: J Neurosurg 1997 Jun;86(6):1072.

Amygdalohippocampectomy [letter; comment] Rapport RL. **J Neurosurg** 1997 Jun;86(6):1072. Comment on: J Neurosurg 1996 Dec;85(6):1172–6.

A novel computer-assisted volumetric stereotactic approach for resecting tumors of the posterior parahippocampal gyrus. Weiner HL, et al. **J Neurosurg** 1996 Aug;85(2):272–7

Activity of choline acetyltransferase in the rat medial septal nucleus following fimbria-fornix transection or selective immunolesioning with 192 IgG-saporin. Hage B, et al. **Neurosci Lett** 1996 Feb 23;205(2):119–22

The transcallosal interforniceal approach to the third ventricle: anatomic and microsurgical aspects. Winkler PA, et al. **Neurosurgery** 1997 May;40(5):973–81; discussion 981–2

[The differentiation of locus coeruleus neurons after their allotransplantation into the preliminarily denervated hippocampus of white rats] Svanidze IK, et al. **Morfologiia** 1997;111(2):35–9 (Eng. Abstr.) **(Rus)**

TRANSPLANTATION

The GABAergic system of the dentate gyrus after withdrawal from chronic alcohol consumption: effects of intracerebral grafting and putative neuroprotective agents. Cadete-Leite A, et al. **Alcohol Alcohol** 1997 Jul–Aug; 32(4):471–84

Downregulation of muscarinic- and 5-HT1B-mediated modulation of [3H]acetylcholine release in hippocampal slices of rats with fimbria-fornix lesions and intrahippocampal grafts of septal origin. Cassel JC, et al. **Brain Res** 1995 Dec 18;704(2):153–66

Fetal hippocampal cells grafted to kainate-lesioned CA3 region of adult hippocampus suppress aberrant supragranular sprouting of host mossy fibers. Shetty AK, et al. **Exp Neurol** 1997 Feb;143(2):231–45

Collateral sprouting of central noradrenergic neurons during aging: histochemical and neurochemical studies in intraocular triple transplants. Srivastava N, et al. **Exp Neurol** 1997 Jun;145(2 Pt 1):524–35

Hippocampal tissue transplants reverse lesion-induced spatial memory deficits in zebra finches (Taeniopygia guttata). Patel SN, et al. **J Neurosci** 1997 May 15;17(10):3861–9

Neural transplantation as an experimental treatment modality for cerebral ischemia. Borlongan CV, et al. **Neurosci Biobehav Rev** 1997 Jan;21(1):79–90 (96 ref.)

Contrasting effects of fetal CA1 and CA3 hippocampal grafts on deficits in spatial learning and working memory induced by global cerebral ischaemia in rats. Hodges H, et al. **Neuroscience** 1996 Jun;72(4):959–88

Triple immunosuppression protects murine intracerebral, hippocampal xenografts in adult rat hosts: effects on cellular infiltration, major histocompatibility complex antigen induction and blood-brain barrier leakage. Pedersen EB, et al. **Neuroscience** 1997 Jun;78(3):685–701

Development of fetal hippocampal grafts in intact and lesioned hippocampus. Shetty AK, et al. **Prog Neurobiol** 1996 Dec;50(5–6):597–653 (355 ref.)

ULTRASTRUCTURE

Organization of identified fiber tracts in the rat fimbria-fornix: an anterograde tracing and electron microscopic study. Adelmann G, et al. **Anat Embryol (Berl)** 1996 May;193(5):481–93

Preferential activation of excitatory adenosine receptors at rat hippocampal and neuromuscular synapses by adenosine formed from released adenine nucleotides. Cunha RA, et al. **Br J Pharmacol** 1996 Sep;119(2):253–60

Distribution of mossy fibres in the hippocampus of two closely related species of mice. Donovan J, et al. **Brain Res** 1996 Sep 2;732(1–2):253–6

Reduction in numerical synapse density in chick (Gallus domesticus) dorsal hippocampus following transient cerebral ischaemia [corrected and republished article originally printed in Brain Res 1995 Dec 12;703(1–2):245–50] Horner CH, et al. **Brain Res** 1996 Oct 7;735(2):354–9

Reduction in numerical synapse density in chick (Gallus domesticus) dorsal hippocampus following transient cerebral ischaemia [corrected and republished in Brain Res 1996 Oct 7;735(2):354–9] Horner CH, et al. **Brain Res** 1995 Dec 12;703(1–2):245–50

Comparative effect of IL-2 and IL-6 on morphology of cultured hippocampal neurons from fetal rat brain. Sarder M, et al. **Brain Res** 1996 Apr 9;715(1–2):9–16

Ultrastructure and distribution of corticothalamic fiber terminals from the posterior cingulate cortex and the presubiculum to the anteroventral thalamic nucleus of the rat. Oda S. **Brain Res Bull** 1997;42(6):485–91

A fine structural study of the hippocampus and dorsal root ganglion in mouse trisomy 16, a model of Down's syndrome. Lane NJ, et al. **Cell Biol Int** 1996 Oct; 20(10):673–80

Resting microglial cells in vitro: analysis of morphology and adhesion molecule expression in organotypic hippocampal slice cultures. Hailer NP, et al. **Glia** 1996 Dec;18(4):319–31

Correlations between ganglioside storage degree and physiological characteristics of neuronal systems--experimental chloroquine intoxication in miniature pig [published erratum appears in J Hirnforsch 1996;37(3):455] Klinghardt GW. **J Hirnforsch** 1996; 37(2):181–94

Synaptic vesicle ultrastructural changes in the rat hippocampus induced by a combination of alpha-linolenate deficiency and a learning task. Yoshida S, et al. **J Neurochem** 1997 Mar;68(3):1261–8

Unbiased stereological estimation of the total number of synapses in a brain region. Geinisman Y, et al. **J Neurocytol** 1996 Dec;25(12):805–19

Quantitative ultrastructural analysis of hippocampal excitatory synapses. Schikorski T, et al. **J Neurosci** 1997 Aug 1;17(15):5858–67

Three-dimensional organization of smooth endoplasmic reticulum in hippocampal CA1 dendrites and dendritic spines of the immature and mature rat. Spacek J, et al. **J Neurosci** 1997 Jan 1;17(1):190–203

Hirano bodies and Alzheimer's disease. Mitake S, et al. **Kao Hsiung I Hsueh Ko Hsueh Tsa Chih** 1997 Jan; 13(1):10–8 (63 ref.)

B-50/GAP-43 phosphorylation and PKC activity are increased in rat hippocampal synaptosomal membranes after an inhibitory avoidance training. Cammarota M, et al. **Neurochem Res** 1997 Apr;22(4):499–505

Aberrant hippocampal mossy fiber sprouting correlates with greater NMDAR2 receptor staining. Mathern GW, et al. **Neuroreport** 1996 Apr 10;7(5):1029–35

Cytoskeletal maturation in cultured hippocampal slices. Hartel R, et al. **Neuroscience** 1997 May;78(1):1–5

Ultrastructural synaptic correlates of spatial learning in rat hippocampus. Rusakov DA, et al. **Neuroscience** 1997 Sep; 80(1):69–77

[An ultrastructural study of the hippocampal neurons in mice subjected to heat exposure] Pavlik LL, et al. **Tsitologiia** 1996;38(6):571–7 (Eng. Abstr.) **(Rus)**

[The quantitative characteristics of the changes in the synaptic contacts in the hippocampus in Alzheimer's disease] Kiktenko AI, et al. **Zh Nevropatol Psikhiatr Im S S Korsakova** 1996;96(5):95–6 **(Rus)**

VIROLOGY

A comparative study of acute and chronic diseases induced by two subgroups of Theiler's murine encephalomyelitis virus. Tsunoda I, et al. **Acta Neuropathol (Berl)** 1996; 91(6):595–602

Rapid gene transfer into cultured hippocampal neurons and acute hippocampal slices using adenoviral vectors. Griesbeck O, et al. **Brain Res Mol Brain Res** 1997 Feb; 44(1):171–7

Alteration of muscarinic acetylcholine receptors in rabies viral-infected dog brains. Dumrongphol H, et al. **J Neurol Sci** 1996 Apr;137(1):1–6

HIPPOCRATIC OATH

Origins and development of the injunction prohibiting sexual relationships with patients. Leggett A. **Aust N Z J Psychiatry** 1995 Dec;29(4):586–90

The BMJ's Nuremberg issue. College oath requires physicians to do everything for the welfare of the state [letter; comment] Nicholson G. **BMJ** 1997 Feb 8; 314(7078):439. Comment on: BMJ 1996 Dec 7;313(7070):1453–63.

Justice and the individual in the Hippocratic tradition [see comments] Zaner RM. **Camb Q Healthc Ethics** 1996 Fall; 5(4):511–8. Comment in: Camb Q Healthc Ethics 1996 Fall;5(4):519–32.

Curing and killing [letter] Stephens RO, et al. **Can Med Assoc J** 1997 Jan 15;156(2):166–7

Oath of Hippocrates vs the Wall Street Journal? [letter] Needham CW. **Conn Med** 1997 Jul;61(7):442–3

Re: Standardization of ethics education and the use of the Hippocratic Oath for health science students [letter] McCarthy G. **J Dent Educ** 1997 Aug;61(8):649

Hippocratic ideals, medical ethics, and the practice of medicine in the early Middle Ages: the legacy of the Hippocratic Oath. Galvão-Sobrinho CR. **J Hist Med Allied Sci** 1996 Oct;51(4):438–55

Receptions of the Hippocratic Oath in the Renaissance: the prohibition of abortion as a case study in reception. Rütten

T. **J Hist Med Allied Sci** 1996 Oct;51(4):456–83
The Hippocratic Oath and modern medicine. Smith DC. **J Hist Med Allied Sci** 1996 Oct;51(4):484–500
"In a pure and holy way": personal and professional conduct in the Hippocratic Oath? von Staden H. **J Hist Med Allied Sci** 1996 Oct;51(4):404–37
Levinas and the Hippocratic oath: a discussion of physician-assisted suicide. Degnin FD. **J Med Philos** 1997 Apr;22(2):99–123
Hippocratic oath versus managed care: physicians caught in ethical squeeze [news] Blume E. **J Natl Cancer Inst** 1997 Apr 16;89(8):543–5
Swearing an oath [editorial] Kessel N. **J R Soc Med** 1997 Jun;90(6):301–2
Hippocratic opinion [letter] Russell WM. **J R Soc Med** 1997 Jul;90(7):415–6
My oath! Nespolon HM. **Med J Aust** 1997 Jan 20;166(2):112
The hole of the pit [letter] Tibbs GJ. **Med J Aust** 1997 Apr 7;166(7):392
Managed care and the Hippocratic Oath [letter] Rennert OM. **Pediatr Ann** 1996 Dec;25(12):657–8
Hippocrates and urology: the first surgical subspecialty. Bloom DA. **Urology** 1997 Jul;50(1):157–9
[Traditional medicine in ancient Greece (coexistence of Asclepian art and Hippocratic medicine)] Marketos SG, et al. **Przegl Lek** 1995;52(12):612–4 (Eng. Abstr.) **(Pol)**

HIPPOTRAGINES see **ANTELOPES**

HIPPURATES

Assessment of radiochemical design of antibodies using an ester bond as the metabolizable linkage: evaluation of maleimidoethyl 3-(tri-n-butylstannyl)hippurate as a radioiodination reagent of antibodies for diagnostic and therapeutic applications. Arano Y, et al. **Bioconjug Chem** 1996 Nov-Dec;7(6):628–37

ANALYSIS

A highly sensitive HPLC method for the simultaneous determination of acetylsalicylic, salicylic and salicyluric acids in biologic fluids: pharmacokinetic, metabolic and monitoring implications. Krivosíková Z, et al. **Methods Find Exp Clin Pharmacol** 1996 Oct;18(8):527–32

BLOOD

Renal 131I-hippurate clearance overestimates true renal blood flow in the instrumented conscious dog. Visscher CA, et al. **Am J Physiol** 1996 Aug;271(2 Pt 2):F269–74

CHEMISTRY

A newly designed radioimmunoconjugate releasing a hippurate-like radiometal chelate for enhanced target/non-target radioactivity. Arano Y, et al. **Nucl Med Biol** 1994 Jan;21(1):63–9

METABOLISM

Lipoic acid impairs glycine conjugation of benzoic acid and renal excretion of benzoylglycine. Gregus Z, et al. **Drug Metab Dispos** 1996 Jun;24(6):682–8

URINE

Urinary excretion of dimethylhippuric acids in humans after exposure to trimethylbenzenes. Järnberg J, et al. **Int Arch Occup Environ Health** 1997;69(6):491–7
Toluene itself as the best urinary marker of toluene exposure. Kawai T, et al. **Int Arch Occup Environ Health** 1996; 68(5):289–97
Determination of dimethylhippuric acid isomers in urine by high-performance liquid chromatography. Ståhlbom B, et al. **Int Arch Occup Environ Health** 1997;69(2):147–50
Determination of aromatic metabolites in ruminant urine by high-performance liquid chromatography. Chen XB, et al. **J Chromatogr B Biomed Appl** 1996 Jul 12;682(2):201–8

HIRSCHSPRUNG DISEASE

Hirschsprung's disease. Chatterjee SK. **Indian Pediatr** 1997 Feb;34(2):123–8 (15 ref.)
Aganglionosis and other neuromuscular dysfunctions. Staiano A. **J Pediatr Gastroenterol Nutr** 1997;25 Suppl 1:S26–7
Hirschsprung's disease, imperforate anus, and Down's syndrome: a case report. Flageole H, et al. **J Pediatr Surg** 1996 Jun;31(6):759–60
Agenesis of corpus callosum, hypertrophic pyloric stenosis and Hirschsprung disease: coincidence or common etiology? Sayed M, et al. **Neuropediatrics** 1996 Aug; 27(4):204–6

BLOOD

Circulating leukocytes with ingested mucin in a child with Hirschsprung's disease [letter] Yu PH, et al. **Am J Hematol** 1996 Jul;52(3):240

COMPLICATIONS

Brain anomalies, retardation of mentality and growth, ectodermal dysplasia, skeletal malformations, Hirschsprung disease, ear deformity and deafness, eye hypoplasia, cleft palate, cryptorchidism, and kidney dysplasia/hypoplasia (BRESEK/BRESHECK): new X-linked syndrome? Reish O, et al. **Am J Med Genet** 1997 Feb 11;68(4):386–90
Urinary retention in a child secondary to Hirschsprung's disease. Dierks SM, et al. **Br J Urol** 1997 May;79(5):806
Hirschsprung's disease manifested with obstructive colitis in adult: a case report. Wang TY, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec;58(6):444–7
Bardet-Biedl syndrome: delayed diagnosis in a child with Hirschsprung disease [letter] Işlek İ, et al. **Clin Dysmorphol** 1996 Jul;5(3):271–3 (7 ref.)
Urolithiasis in patients with Hirschsprung's disease. Sarioğlu A, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):149–51
Zonal adult Hirschsprung's disease. Fu CG, et al. **Gut** 1996 Nov;39(5):765–7
Long-term follow-up of Hirschsprung's disease: review of early and late complications. Agarwala S, et al. **Indian Pediatr** 1996 May;33(5):382–6
Colonic volvulus: a rare presentation of Hirschsprung's disease. Sarioğlu A, et al. **J Pediatr Surg** 1997 Jan; 32(1):117–8 (10 ref.)
Appendiceal perforation: a potentially lethal initial mode of presentation of Hirschsprung's disease. Sarioğlu A, et al. **J Pediatr Surg** 1997 Jan;32(1):123–4 (11 ref.)
Familial neuroblastoma: a three-generation pedigree and a further association with Hirschsprung disease. Maris JM, et al. **Med Pediatr Oncol** 1997 Jan;28(1):1–5
Hirschsprung's disease in myotonic dystrophy [letter] Benito-León J, et al. **Muscle Nerve** 1996 Sep;19(9):1229–30
[Intestinal perforation in Hirschsprung's disease. A clinical case in an adult and review of the literature] Clemente A, et al. **Minerva Chir** 1996 May;51(5):351–4 (Eng. Abstr.) **(Ita)**

DIAGNOSIS

Cathepsin D in intestinal ganglion cells. A potential aid to diagnosis in suspected Hirschsprung's disease. Abu-Alfa AK, et al. **Am J Surg Pathol** 1997 Feb;21(2):201–5
Hirschsprung's disease presenting as sigmoid volvulus in a newborn. Venugopal KS, et al. **Eur J Pediatr Surg** 1997 Jun;7(3):172–3
Adult Hirschsprung's disease [letter; comment] Mehta SK. **Indian J Gastroenterol** 1996 Apr;15(2):79. Comment on: Indian J Gastroenterol 1995 Jul;14(3):108–9.
Comparison of neuropeptide Y, protein gene product 9.5, and acetylcholinesterase in the diagnosis of Hirschsprung's disease. Galvis DA, et al. **Pediatr Pathol Lab Med** 1997 May-Jun;17(3):413–25
Diagnosis of Hirschsprung's disease [letter] Maia DM. **Pediatr Pathol Lab Med** 1997 Mar-Apr;17(2):329–30
[Diagnosis and surgical treatment of distal congenital intestinal aganglionosis in children] Iudin AA. **Khirurgiia (Mosk)** 1996;(4):40–2 (Eng. Abstr.) **(Rus)**

ENZYMOLOGY

The distribution and co-localization of nitric oxide synthase and vasoactive intestinal polypeptide in nerves of the colons with Hirschsprung's disease. Guo R, et al. **Virchows Arch** 1997 Jan;430(1):53–61

EPIDEMIOLOGY

Hirschsprung's disease in Oman. Rajab A, et al. **J Pediatr Surg** 1997 May;32(5):724–7

ETIOLOGY

Hypothesis: pathogenesis of skip areas in long-segment Hirschsprung's disease. Kapur RP, et al. **Pediatr Pathol Lab Med** 1995 Jan-Feb;15(1):23–37

GENETICS

Biological properties of Ret with cysteine mutations correlate with multiple endocrine neoplasia type 2A, familial medullary thyroid carcinoma, and Hirschsprung's disease phenotype. Ito S, et al. **Cancer Res** 1997 Jul 15; 57(14):2870–2
RET oncogene. Mak YF, et al. **Curr Opin Genet Dev** 1996 Feb;6(1):82–6 (45 ref.)
RET mutations in multiple endocrine neoplasia type 2 and Hirschsprung disease. Reynolds LF, et al. **Curr Opin Pediatr** 1995 Dec;7(6):702–9 (63 ref.)
A mutation in endothelin-B receptor gene causes myenteric aganglionosis and coat color spotting in rats. Kunieda T, et al. **DNA Res** 1996 Apr 30;3(2):101–5
Prevalence and parental origin of de novo RET mutations in Hirschsprung's disease. Yin L, et al. **Eur J Hum Genet** 1996;4(6):356–8
Waardenburg-Hirschsprung disease in two sisters: a possible clue to the genetics of this association? Bonnet JP, et al. **Eur J Pediatr Surg** 1996 Aug;6(4):245–8 (21 ref.)
Human homology and candidate genes for the Dominant megacolon locus, a mouse model of Hirschsprung disease. Pingault V, et al. **Genomics** 1997 Jan 1;39(1):86–9
Heterozygous endothelin receptor B (EDNRB) mutations in isolated Hirschsprung disease. Amiel J, et al. **Hum Mol Genet** 1996 Mar;5(3):355–7
Endothelin-B receptor mutations in patients with isolated Hirschsprung disease from a non-inbred population. Auricchio A, et al. **Hum Mol Genet** 1996 Mar;5(3):351–4
Endothelin receptor-mediated signaling in hirschsprung disease. Chakravarti A. **Hum Mol Genet** 1996 Mar; 5(3):303–7 (36 ref.)
De novo mutation of GDNF, ligand for the RET/GDNFR-alpha receptor complex, in Hirschsprung disease. Ivanchuk SM, et al. **Hum Mol Genet** 1996 Dec; 5(12):2023–6
Mechanism of ret dysfunction by Hirschsprung mutations affecting its extracellular domain. Iwashita T, et al. **Hum Mol Genet** 1996 Oct;5(10):1577–80
Novel mutations of the endothelin-B receptor gene in isolated patients with Hirschsprung's disease. Kusafuka T, et al. **Hum Mol Genet** 1996 Mar;5(3):347–9
Mutations of the RET proto-oncogene in the multiple endocrine neoplasia type 2 syndromes, related sporadic tumours, and hirschsprung disease. Eng C, et al. **Hum Mutat** 1997;9(2):97–109 (105 ref.)
Cys 618 Arg mutation in the RET proto-oncogene associated with familial medullary thyroid carcinoma and maternally transmitted Hirschsprung's disease suggesting a role for imprinting. Peretz H, et al. **Hum Mutat** 1997;10(2):155–9
Frequency of RET mutations in long- and short-segment Hirschsprung disease. Seri M, et al. **Hum Mutat** 1997; 9(3):243–9
Hydrocephalus and Hirschsprung's disease in a patient with a mutation of L1CAM. Okamoto N, et al. **J Med Genet** 1997 Aug;34(8):670–1
Altered RET gene mRNA expression in Hirschsprung's disease. Kusafuka T, et al. **J Pediatr Surg** 1997 Apr; 32(4):600–4
Altered mRNA expression of the neuronal nitric oxide synthase gene in Hirschsprung's disease. Kusafuka T, et al. **J Pediatr Surg** 1997 Jul;32(7):1054–8
Mutation analysis of the RET, the endothelin-B receptor, and the endothelin-3 genes in sporadic cases of Hirschsprung's disease. Kusafuka T, et al. **J Pediatr Surg** 1997 Mar;32(3):501–4
Germline mutation of the RET proto-oncogene in children with total intestinal aganglionosis. Shimotake T, et al. **J Pediatr Surg** 1997 Mar;32(3):498–500
Germline mutations in glial cell line-derived neurotrophic factor (GDNF) and RET in a Hirschsprung disease patient. Angrist M, et al. **Nat Genet** 1996 Nov;14(3):341–4
Germline mutations of the RET ligand GDNF are not sufficient to cause Hirschsprung disease. Salomon R, et al. **Nat Genet** 1996 Nov;14(3):345–7
The RET proto-oncogene: a challenge to our understanding of disease pathogenesis. Kusafuka T, et al. **Pediatr Surg Int** 1997;12(1):11–8 (99 ref.)
Mutations of the endothelin-B receptor and endothelin-3 genes in Hirschsprung's disease. Kusafuka T, et al. **Pediatr Surg Int** 1997;12(1):19–23 (38 ref.)
Hirschsprung's disease as a neurochristopathy. Martucciello G. **Pediatr Surg Int** 1997;12(1):2–10 (74 ref.)
RET mutations in human disease. Pasini B, et al. **Trends Genet** 1996 Apr;12(4):138–44 (60 ref.)
[Genetics of Hirschsprung disease] Attié T, et al. **Ann Chir** 1996;50(7):538–41 (Eng. Abstr.) **(Fre)**
[Genetics of Hirschsprung disease] Attié T, et al. **C R Seances Soc Biol Fil** 1996;190(5-6):549–56 (29 ref.) (Eng. Abstr.) **(Fre)**

HISTORY

Early history of the therapy of Hirschsprung's disease: facts and personal observations over 50 years [see comments] Swenson O. **J Pediatr Surg** 1996 Aug;31(8):1003–8. Comment in: J Pediatr Surg 1997 Jun;32(6):935–6.
Early history of the therapy of Hirschsprung's disease: facts and personal observations over 50 years [letter; comment] Vrsansky P, et al. **J Pediatr Surg** 1997 Jun;32(6):935–6. Comment on: J Pediatr Surg 1996 Aug;31(8):1003–8.
Hirschsprung's syndrome: "locked-in" vs "vegetative" colon. Goldblatt D. **Semin Neurol** 1996 Sep;16(3):297–9

IMMUNOLOGY

Acquired intestinal aganglionosis and circulating autoantibodies without neoplasia or other neural involvement. Smith VV, et al. **Gastroenterology** 1997 Apr; 112(4):1366–71
The distribution and co-localization of nitric oxide synthase and vasoactive intestinal polypeptide in nerves of the colons with Hirschsprung's disease. Guo R, et al. **Virchows Arch** 1997 Jan;430(1):53–61

METABOLISM

Biochemical analysis of colonic mucin glycoproteins in children with Hirschsprung disease show disease specific alterations. Aslam A, et al. **Biochem Soc Trans** 1997 Feb; 25(1):8S
Glial-derived neurotrophic factor in human adult and fetal intestine and in Hirschsprung's disease. Bär KJ, et al. **Gastroenterology** 1997 Apr;112(4):1381–5
Endothelin receptor-mediated signaling in hirschsprung disease. Chakravarti A. **Hum Mol Genet** 1996 Mar; 5(3):303–7 (36 ref.)
Alterations in neurotrophin and neurotrophin-receptor localization in Hirschsprung's disease. Hoehner JC, et al. **J Pediatr Surg** 1996 Nov;31(11):1524–9
Impaired expression of neural cell adhesion molecule L1 in the extrinsic nerve fibers in Hirschsprung's disease. Ikawa H, et al. **J Pediatr Surg** 1997 Apr;32(4):542–5
Comparison of neuropeptide Y, protein gene product 9.5, and acetylcholinesterase in the diagnosis of Hirschsprung's disease. Galvis DA, et al. **Pediatr Pathol Lab Med** 1997

HIRSCHSPRUNG DISEASE

May-Jun;17(3):413-25

PATHOLOGY

Hirschsprung disease, postaxial polydactyly, and atrial septal defect. Nowaczyk MJ, et al. **Am J Med Genet** 1997 Jan 10;68(1):74-5

Preliminary immunohistochemical new findings in the myenteric plexus of patients with intestinal neuronal dysplasia type B. Munakata K, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):21-9

Expression of beta-1 integrins in ganglionic and aganglionic segments of patients with Hirschsprung's disease. Tanyel FC, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):16-20

Interstitial cells of Cajal in human colon and in Hirschsprung's disease. Vanderwinden JM, et al. **Gastroenterology** 1996 Oct;111(4):901-10

Mucosal prolapse changes in Hirschsprung's disease. Chetty R, et al. **Histopathology** 1997 Apr;30(4):324-7

Children with Hirschsprung's disease have an abnormal colonic mucus defensive barrier independent of the bowel innervation status. Aslam A, et al. **J Pediatr Surg** 1997 Aug; 32(8):1206-10

Abnormal internal anal sphincter innervation in patients with Hirschsprung's disease and allied disorders. Kobayashi H, et al. **J Pediatr Surg** 1996 Jun;31(6):794-9

NADPH-diaphorase histochemistry: a reliable test for the intraoperative diagnosis of Hirschsprung's disease. Kobayashi H, et al. **J Pediatr Surg** 1996 Nov;31(11):1552-3

Variant Hirschsprung's disease. Puri P. **J Pediatr Surg** 1997 Feb;32(2):149-57 (52 ref.)

Unique spindle cells in the involved ileal segment of rats with congenital aganglionosis. Watanabe Y, et al. **J Pediatr Surg** 1997 Aug;32(8):1229-33

Neuronal intestinal dysplasia in an adult. Prakash U, et al. **J R Coll Surg Edinb** 1997 Apr;42(2):140-1

Neuronal defects in genotyped dominant megacolon (Dom) mouse embryos, a model for Hirschsprung disease. Puliti A, et al. **Neuroreport** 1996 Jan 31;7(2):489-92

Ultrashort segment Hirschsprung's disease: a case report. Ballard ET. **Pediatr Pathol Lab Med** 1996 Mar-Apr; 16(2):319-25

Hypothesis: pathogenesis of skip areas in long-segment Hirschsprung's disease. Kapur RP, et al. **Pediatr Pathol Lab Med** 1995 Jan-Feb;15(1):23-37

Diagnosis of Hirschsprung's disease [letter] Maia DM. **Pediatr Pathol Lab Med** 1997 Mar-Apr;17(2):329-30

A new instrument for suction rectal biopsy in the diagnosis of Hirschsprung's disease. Freeman JK. **Pediatr Surg Int** 1997;12(1):76-7

PHYSIOPATHOLOGY

Functional innervation of the aganglionic segment in Hirschsprung's disease--a comparison of the short- and long-segment type. Kamimura T, et al. **J Pediatr Surg** 1997 May;32(5):673-7

Intestinal pacemaker C-KIT+ cells and synapses in allied Hirschsprung's disorders. Yamataka A, et al. **J Pediatr Surg** 1997 Jul;32(7):1069-74

[Gastric antral and duodenal pressure measurement in 24 hours in Hirschsprung disease] Matusfuji B. **J Smooth Muscle Res** 1995 Dec;31(6):361-4 **(Jpn)**

[Non-adrenergic-non-cholinergic relaxation and nitric oxide in the intestines of Hirschsprung disease] Watanabe H, et al. **J Smooth Muscle Res** 1995 Dec;31(6):467-70 **(Jpn)**

PSYCHOLOGY

Bowel function, mental health, and psychosocial function in adolescents with Hirschsprung's disease. Diseth TH, et al. **Arch Dis Child** 1997 Feb;76(2):100-6

RADIONUCLIDE IMAGING

Megacolon demonstrated on colonic transit imaging. Frater C, et al. **Clin Nucl Med** 1997 Jul;22(7):498-9

SURGERY

Colostomy complications in infants and children. Nour S, et al. **Ann R Coll Surg Engl** 1996 Nov;78(6):526-30

Anorectal sigmoid myotomy with ileal anastomosis after subtotal colectomy due to Hirschsprung's enterocolitis: case report and review of the literature. Ortiz VN, et al. **Bol Asoc Med P R** 1995 Oct-Dec;87(10-12):162-3

Duhamel operation 40 years after: a multicentric study. Bourdelat D, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):70-6

Neuronal intestinal and fibromuscular arterial dysplasias associated with intraluminal mucosal web. Kotiloğlu E, et al. **Eur J Pediatr Surg** 1997 Feb;7(1):52-4

Salvage of Soave-Boley endorectal pull-through by conversion to a classical Soave procedure. Laberge JM, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):362-3

Management of uncommon complications of definitive operations of Hirschsprung's disease. Sarioğlu A, et al. **Eur J Pediatr Surg** 1996 Dec;6(6):358-61

Results of a modified Duhamel Operation for Hirschsprung's disease using the GIA stapler. Yanagihara J, et al. **Eur J Pediatr Surg** 1997 Apr;7(2):77-9

Prevention of colostomy prolapse by peritoneal tethering. Ng WT, et al. **J Am Coll Surg** 1997 Mar;184(3):313-5

Preanal stapler anastomosis in minimally invasive surgery of Hirschsprung's disease. Rappert P, et al. **J Laparoendosc Surg** 1996 Mar;6 Suppl 1:S75-82

Mucosal inflammation in pediatric diversion colitis: a quantitative analysis. Grant NJ, et al. **J Pediatr Gastroenterol Nutr** 1997 Sep;25(3):273-80

Internal sphincterotomy in post-pull-through Hirschsprung's disease. Blair GK, et al. **J Pediatr Surg** 1996 Jun;31(6):843-5

Laparoscopic Swenson pull-through: a comparison with the open procedure. Curran TJ, et al. **J Pediatr Surg** 1996 Aug; 31(8):1155-6; discussion 1156-7

Motor activity of refashioned colorectoanus in patients with total colonic aganglionosis. Endo M, et al. **J Pediatr Surg** 1996 Feb;31(2):283-90

Single-stage repair of Hirschsprung's disease: a comparison of 109 patients over 5 years. Hackam DJ, et al. **J Pediatr Surg** 1997 Jul;32(7):1028-31; discussion 1031-2

More than 10 years' follow-up to total colonic aganglionosis--severe iron deficiency anemia and growth retardation. Ikawa H, et al. **J Pediatr Surg** 1997 Jan; 32(1):25-7

Use of synaptophysin polyclonal antibody for the rapid intraoperative immunohistochemical evaluation of functional bowel disorders. Kobayashi H, et al. **J Pediatr Surg** 1997 Jan;32(1):38-40

NADPH-diaphorase histochemistry: a reliable test for the intraoperative diagnosis of Hirschsprung's disease. Kobayashi H, et al. **J Pediatr Surg** 1996 Nov;31(11):1552-3

External anal sphincter dysfunction and postoperative bowel habits of patients with Hirschsprung's disease. Kubota M, et al. **J Pediatr Surg** 1997 Jan;32(1):22-4

Anal reeducation for postoperative fecal incontinence in congenital diseases of the rectum and anus. Ménard C, et al. **J Pediatr Surg** 1997 Jun;32(6):867-9

Clinical outcome and long-term quality of life after surgical correction of Hirschsprung's disease. Moore SW, et al. **J Pediatr Surg** 1996 Nov;31(11):1496-502

Staged pull-through for rectosigmoid Hirschsprung's disease is not safer than primary pull-through. Pierro A, et al. **J Pediatr Surg** 1997 Mar;32(3):505-9 (21 ref.)

Hirschsprung's disease: a 20-year experience. Reding R, et al. **J Pediatr Surg** 1997 Aug;32(8):1221-5

Laparoscopic pull-through procedures using the harmonic scalpel in infants and children with Hirschsprung's disease. Rothenberg SS, et al. **J Pediatr Surg** 1997 Jun;32(6):894-6

Transanal mucosectomy: a modification of the Soave procedure for Hirschsprung's disease. Saltzman DA, et al. **J Pediatr Surg** 1996 Sep;31(9):1272-5

Long-term stooling patterns in infants undergoing primary endorectal pull-through for Hirschsprung's disease. Teitelbaum DH, et al. **J Pediatr Surg** 1997 Jul; 32(7):1049-52; discussion 1052-3

Duhamel-Martin procedure for Hirschsprung's disease in neonates and infants: one-stage operation. van der Zee DC, et al. **J Pediatr Surg** 1996 Jul;31(7):901-2

One-stage neonatal pull-through to treat Hirschsprung's disease. Wilcox DT, et al. **J Pediatr Surg** 1997 Feb; 32(2):243-5; discussion 245-7

Twenty-three years of follow-up in patients with total colonic aganglionosis. Hengster P, et al. **Klin Padiatr** 1996 Jan-Feb;208(1):3-7

Colorectal resection and anal anastomosis with an intraluminal stapler in Hirschsprung's disease. Hedlund H. **Pediatr Surg Int** 1997 Feb;12(2-3):142-4

Clinical impact of intestinal neuronal malformations: a prospective study in 141 patients. Ure BM, et al. **Pediatr Surg Int** 1997 Jul;12(5-6):377-82

[Total colonic form of Hirschsprung disease. Treatment and long-term follow-up in 16 cases] Azzis O, et al. **Chirurgie** 1996;121(3):225-9; discussion 230 (Eng. Abstr.) **(Fre)**

[Indications and outcome of anal sphincter myectomy in childhood] Wessel L, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1996;113:1047-52 (Eng. Abstr.) **(Ger)**

[Diagnosis and surgical treatment of distal congenital intestinal aganglionosis in children] Iudin AA. **Khirurgiia (Mosk)** 1996;(4):40-2 (Eng. Abstr.) **(Rus)**

THERAPY

Preliminary experience with intrasphincteric botulinum toxin for persistent constipation after pull-through for Hirschsprung's disease. Langer JC, et al. **J Pediatr Surg** 1997 Jul;32(7):1059-61; discussion 1061-2

VETERINARY

Inhibitory neurotransmission in lethal spotted mutant mice: a model for Hirschsprung's disease. Chakder S, et al. **Gastroenterology** 1997 May;112(5):1575-85

Pathophysiological and functional aspects of the megacolon-syndrome of homozygous spotted rabbits. Bödeker D, et al. **Zentralbl Veterinarmed A** 1995 Nov; 42(9):549-59

HIRSUTISM

see related

HYPERTRICHOSIS

Investigations in the assessment and management of patients with hirsutism. Barth JH. **Curr Opin Obstet Gynecol** 1997 Jun;9(3):187-92 (44 ref.)

What we see most, we understand least [editorial] Agarwal SK, et al. **West J Med** 1996 Dec;165(6):392-3

Approach to patients with hirsutism. Sakiyama R. **West J Med** 1996 Dec;165(6):386-91 (16 ref.)

BLOOD

Lipids and finasteride [letter; comment] Blumenfeld Z. **Fertil Steril** 1996 Mar;65(3):677-8. Comment on: Fertil Steril 1995 Aug;64(2):299-306.

Prostate-specific antigen in female serum, a potential new marker of androgen excess. Melegos DN, et al. **J Clin Endocrinol Metab** 1997 Mar;82(3):777-80

Mild adrenal and ovarian steroidogenic abnormalities in hirsute women without hyperandrogenemia: does idiopathic hirsutism exist? Escobar-Morreale HF, et al. **Metabolism** 1997 Aug;46(8):902-7

CLASSIFICATION

Hirsutism [letter; comment] Holmes S. **Lancet** 1997 Mar 1; 349(9052):651. Comment on: Lancet 1997 Jan 18;349(9046):191-5.

COMPLICATIONS

Ovarian Sertoli-Leydig cell tumor in an amenorrheic hirsute patient. Tsai CC, et al. **Chang Keng I Hsueh** 1996 Jun; 19(2):191-5

Treatment of hirsutism by finasteride and flutamide in women with polycystic ovary syndrome. Falsetti L, et al. **Gynecol Endocrinol** 1997 Aug;11(4):251-7

CONGENITAL

Michelin tire syndrome: a congenital disorder of elastic fibre formation? Sato M, et al. **Br J Dermatol** 1997 Apr; 136(4):583-6

DIAGNOSIS

Value of buserelin testing in the evaluation of hirsute women. Ambrosi B, et al. **J Endocrinol Invest** 1996 Apr;19(4):204-9

DRUG THERAPY

Successful treatment of hirsutism in HAIR-AN syndrome using flutamide, spironolactone, and birth control therapy. Zemtsov A, et al. **Arch Dermatol** 1997 Apr;133(4):431-3

Treatment of endometriosis with cyproterone acetate. Preliminary report. Morán C, et al. **Arch Med Res** 1996 Winter;27(4):535-8

Low dose ketoconazole is an effective and a relatively safe alternative in the treatment of hirsutism. Işik AZ, et al. **Aust N Z J Obstet Gynaecol** 1996 Nov;36(4):487-9

Androgen-receptor blockade does not impair bone mineral density in adolescent females. Bertelloni S, et al. **Calcif Tissue Int** 1997 Jul;61(1):1-5

How robust is the methodology for trials of therapy in hirsute women? Barth JH. **Clin Endocrinol (Oxf)** 1996 Oct; 45(4):379-80

Lipids and finasteride [letter; comment] Blumenfeld Z. **Fertil Steril** 1996 Mar;65(3):677-8. Comment on: Fertil Steril 1995 Aug;64(2):299-306.

Outcome of long-term treatment with the 5 alpha-reductase inhibitor finasteride in idiopathic hirsutism: clinical and hormonal effects during a 1-year course of therapy and 1-year follow-up. Castello R, et al. **Fertil Steril** 1996 Nov; 66(5):734-40

Efficacy and safety of finasteride? [letter; comment] Durmuşoğlu F, et al. **Fertil Steril** 1997 Mar;67(3):589-90 . Comment on: Fertil Steril 1996 Jul;66(1):61-5.

Finasteride in the treatment of hirsutism: new therapeutic perspectives [see comments] Tolino A, et al. **Fertil Steril** 1996 Jul;66(1):61-5. Comment in: Fertil Steril 1997 Mar;67(3):589-90.

Treatment of hirsutism by finasteride and flutamide in women with polycystic ovary syndrome. Falsetti L, et al. **Gynecol Endocrinol** 1997 Aug;11(4):251-7

Comparison of four different treatment regimes in hirsutism related to polycystic ovary syndrome. Gökmen O, et al. **Gynecol Endocrinol** 1996 Aug;10(4):249-55

An open randomized comparative study of an oral contraceptive containing ethinyl estradiol and cyproterone acetate with and without the GnRH analogue goserelin in the long-term treatment of hirsutism. Vegetti W, et al. **Gynecol Obstet Invest** 1996;41(4):260-8

Clinical and hormonal effects of the combination gonadotrophin-releasing hormone agonist plus oral contraceptive pills containing ethinyl-oestradiol (EE) and cyproterone acetate (CPA) versus the EE-CPA pill alone on polycystic ovarian disease-related hyperandrogenisms. Acién P, et al. **Hum Reprod** 1997 Mar;12(3):423-9

Gonadotrophin-releasing hormone agonist therapy for hirsutism is as effective as high dose cyproterone acetate but results in a longer remission. Carmina E, et al. **Hum Reprod** 1997 Apr;12(4):663-6

Intermittent Etidronate partially prevents bone loss in hirsute hyperandrogenic women treated with GnRH agonist. Zamberlan N, et al. **Osteoporos Int** 1997;7(2):133-7

[Finasteride: a new drug for the treatment of male hirsutism and androgenetic alopecia?] Spinucci G, et al. **Clin Ter** 1996 Jun;147(6):305-15 (41 ref.) (Eng. Abstr.) **(Ita)**

ENZYMOLOGY

Late onset adrenal hyperplasia due to 3 beta-hydroxy-delta 5-steroid dehydrogenase deficiency in north Indian hirsute women. Sundararaman PG, et al. **Indian J Med Res** 1997

Jan;105:27-31

EPIDEMIOLOGY

The prevalence of non-classic adrenal hyperplasia due to 11 beta-hydroxylase deficiency among hirsute women in a Turkish population. Keleştimur F, et al. **Clin Endocrinol (Oxf)** 1996 Oct;45(4):381-4

ETIOLOGY

Ovarian hyperthecosis, diabetes and hirsuties in post-menopausal women [see comments] Barth JH, et al. **Clin Endocrinol (Oxf)** 1997 Feb;46(2):123-8. Comment in: Clin Endocrinol (Oxf) 1997 Feb;46(2):129-30.

Hirsutism [letter; comment] Phillipov G. **Lancet** 1997 Mar 1;349(9052):650; discussion 651. Comment on: Lancet 1997 Jan 18;349(9046):191-5.

Hirsutism as a first manifestation of a giant arachnoid cyst of the sylvian fissure. Baykal S, et al. **Neurosurg Rev** 1996; 19(4):279-80

[Pathogenesis and diagnosis of androgenetic manifestations] Imthurn B. **Schweiz Rundsch Med Prax** 1997 Jun 4; 86(23):993-5 (7 ref.) (Eng. Abstr.) **(Ger)**

GENETICS

No genetic mutation in type II 3 beta-hydroxysteroid dehydrogenase gene in patients with biochemical evidence of enzyme deficiency. Tajima T, et al. **Horm Res** 1997; 47(2):49-53

METABOLISM

Intermittent Cushing's disease in hirsute women. Bals-Pratsch M, et al. **Horm Metab Res** 1996 Feb; 28(2):105-10

Augmentation of bone mineral density in hirsute women. Dagogo-Jack S, et al. **J Clin Endocrinol Metab** 1997 Sep; 82(9):2821-5

Gonadotropin-releasing hormone analog plus an oral contraceptive containing desogestrel in women with severe hirsutism: effects on hair, bone, and hormone profile after 1-year use. Castelo-Branco C, et al. **Metabolism** 1997 Apr; 46(4):437-40

PATHOLOGY

Semi-quantitative measurements of body hair in hirsute women compare well with direct diameter measurements of hair shafts. Barth JH. **Acta Derm Venereol** 1997 Jul; 77(4):317-8

SURGERY

Laser-assisted hair removal. Wheeland RG. **Dermatol Clin** 1997 Jul;15(3):469-77 (50 ref.)

THERAPY

The clinical management of hirsutism. Conn JJ, et al. **Eur J Endocrinol** 1997 Apr;136(4):339-48 (94 ref.)

Hirsutism [see comments] Rittmaster RS. **Lancet** 1997 Jan 18;349(9046):191-5 (30 ref.). Comment in: Lancet 1997 Mar 1;349(9052):650; discussion 651. Comment in: Lancet 1997 Mar 1;349(9052):651.

HIRUDIN

Surface adsorption and fibrinogen interactions with hirudin-thrombin complex. Patel R, et al. **J Biomed Mater Res** 1996 Sep;32(1):11-8

Detection of thrombin in human blood by ex-vivo hirudin. Bichler J, et al. **Thromb Res** 1996 Nov 15;84(4):289-94

ADMINISTRATION & DOSAGE

Comparison of the effects of the thrombin inhibitor r-hirudin in four animal models of neointima formation after arterial injury. Gerdes C, et al. **Arterioscler Thromb Vasc Biol** 1996 Oct;16(10):1306-11

Comparison of the effects of two doses of recombinant hirudin compared with heparin in patients with acute myocardial ischemia without ST elevation: a pilot study. Organization to Assess Strategies for Ischemic Syndromes (OASIS) Investigators. **Circulation** 1997 Aug 5; 96(3):769-77

Subcutaneous infusion of r-hirudin does not inhibit neointimal proliferation after angioplasty of the subclavian artery in cholesterol-fed rabbits. Hadoke PW, et al. **Coron Artery Dis** 1996 Aug;7(8):599-608

Recombinant hirudin as a periprocedural antithrombotic in coronary angioplasty for unstable angina pectoris [see comments] Hafner G, et al. **Eur Heart J** 1996 Aug; 17(8):1207-15. Comment in: Eur Heart J 1996 Aug;17(8):1134-6.

A case report on the use of recombinant hirudin as an anticoagulant for cardiopulmonary bypass in open heart surgery. Riess FC, et al. **Eur J Cardiothorac Surg** 1996; 10(5):386-8

Heparin versus hirudin for acute coronary syndromes [letter; comment] Schmaier AH. **N Engl J Med** 1997 Mar 6; 336(10):730; discussion 730-1. Comment on: N Engl J Med 1996 Sep 12;335(11):775-82.

Reversibility of platelet thrombosis in vivo. Quantitative analysis in porcine carotid arteries. Wysokinski W, et al. **Thromb Haemost** 1996 Dec;76(6):1108-13

Anticoagulation with r-hirudin in regular haemodialysis with heparin-induced thrombocytopenia (HIT II). The first long-term application of r-hirudin in a haemodialysis patient [see comments] Nowak G, et al. **Wien Klin Wochenschr** 1997 May 23;109(10):354-8. Comment in: Wien Klin Wochenschr 1997 May 23;109(10):343-5.

ADVERSE EFFECTS

Type IV allergy to natural hirudin confirmed by in vitro stimulation with recombinant hirudin. Zollner TM, et al. **Contact Dermatitis** 1996 Jul;35(1):59-60

ANALOGS & DERIVATIVES

Nonpolar interactions of thrombin and its inhibitors at the fibrinogen recognition exosite: thermodynamic analysis. Cheng Y, et al. **Biochemistry** 1996 Oct 8;35(40):13021-9

Distinct effects of recombinant desulfatohirudin (Revasc) and heparin on plasma levels of fibrinopeptide A and prothrombin fragment F1.2 in unstable angina. A multicenter trial. Rao AK, et al. **Circulation** 1996 Nov 15; 94(10):2389-95

Effect of renal impairment on the pharmacokinetics and pharmacodynamics of desirudin. Lefèvre G, et al. **Clin Pharmacol Ther** 1997 Jul;62(1):50-9

Clinical trials of Hirulog in patients undergoing high-risk percutaneous transluminal coronary angioplasty. Bittl JA. **Coron Artery Dis** 1996 Jun;7(6):449-54 (64 ref.)

Direct thrombin inhibitors in cardiovascular disease. Catella-Lawson F. **Coron Artery Dis** 1997 Feb;8(2):105-11 (34 ref.)

Hirulog: a direct thrombin inhibitor for management of acute coronary syndromes. Maraganore JM, et al. **Coron Artery Dis** 1996 Jun;7(6):438-48 (38 ref.)

A recombinant hirudin (IK-HIR02) in healthy volunteers. I. Effects on coagulation parameters and bleeding time. Schenk JF, et al. **Haemostasis** 1996 May-Jun;26(3):140-9

A recombinant hirudin (IK-HIR02) in healthy volunteers. II. Effects on platelet adhesion and platelet-induced thrombin generation time. Schenk JF, et al. **Haemostasis** 1996 Jul-Aug;26(4):187-94

Acute urticaria caused by subcutaneous recombinant hirudin: evidence for an IgG-mediated hypersensitivity reaction. Bircher AJ, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):994-6

Prevention of thromboembolism with use of recombinant hirudin. Results of a double-blind, multicenter trial comparing the efficacy of desirudin (Revasc) with that of unfractionated heparin in patients having a total hip replacement. Eriksson BI, et al. **J Bone Joint Surg Am** 1997 Mar;79(3):326-33

Inhibition of neointimal proliferation after coronary angioplasty by low-molecular-weight heparin (clivarine) and polyethyleneglycol-hirudin. Buchwald AB, et al. **J Cardiovasc Pharmacol** 1996 Oct;28(4):481-7

Inhibition by hirulog-1 of generation of plasminogen activator inhibitor-1 from vascular smooth-muscle cells induced by thrombin. Ren S, et al. **J Cardiovasc Pharmacol** 1997 Mar;29(3):337-42

Improved perfusion with rt-PA and hirulog in a rabbit model of embolic stroke. Yenari MA, et al. **J Cereb Blood Flow Metab** 1997 Apr;17(4):401-11

Synthesis, structure, and structure-activity relationships of divalent thrombin inhibitors containing an alpha-keto-amide transition-state mimetic. Krishnan R, et al. **Protein Sci** 1996 Mar;5(3):422-33

Intraocular injection of recombinant hirudin to prevent experimental postoperative fibrin. Toth CA, et al. **Retina** 1997;17(4):315-20

Capillary electrophoresis of r-hirudin and a polyethylene glycol derivative of r-hirudin (PEG-hirudin). Malsch R, et al. **Semin Thromb Hemost** 1997;23(1):39-43

Immunoassays in monitoring biotechnological drugs. Gygax D, et al. **Ther Drug Monit** 1996 Aug;18(4):405-9

Effect of a 15-minute infusion of DDAVP on the pharmacokinetics and pharmacodynamics of REVASC during a four-hour intravenous infusion in healthy male volunteers. Amin DM, et al. **Thromb Haemost** 1997 Jan; 77(1):127-32

Pharmacodynamic and safety results of PEG-Hirudin in healthy volunteers. Esslinger HU, et al. **Thromb Haemost** 1997 May;77(5):911-9

High and constant plasma levels of tissue plasminogen activator and PEG-hirudin can be achieved by subcutaneous delivery. Humphries J, et al. **Thromb Res** 1997 Jul 1;87(1):123-9

[Direct thrombin inhibitors] Bornkessel B. **Med Monatsschr Pharm** 1997 Apr;20(4):86-9 (3 ref.) **(Ger)**

ANALYSIS

Investigation on minor degraded derivatives of the recombinant hirudin variant HM2 from Hirudinaria manillensis isolated by isoelectric focusing in multicompartment electrolyzers. Bossi A, et al. **Electrophoresis** 1996 May;17(5):932-7

Capillary electrophoresis of r-hirudin and a polyethylene glycol derivative of r-hirudin (PEG-hirudin). Malsch R, et al. **Semin Thromb Hemost** 1997;23(1):39-43

ANTAGONISTS & INHIBITORS

Rational design, recombinant preparation, and in vitro and in vivo characterization of human prothrombin-derived hirudin antagonists. Fischer BE, et al. **J Biol Chem** 1996 Sep 27;271(39):23737-42

BIOSYNTHESIS

Production and purification of recombinant hirudin expressed in the methylotrophic yeast Pichia pastoris. Rosenfeld SA, et al. **Protein Expr Purif** 1996 Dec;8(4):476-82

BLOOD

Quantitative determination of hirudin in blood and body fluids. Nowak G, et al. **Semin Thromb Hemost** 1996; 22(2):197-202

Monitoring of recombinant hirudin: assessment of a plasma-based ecarin clotting time assay. Pötzsch B, et al. **Thromb Res** 1997 Jun 1;86(5):373-83

CHEMISTRY

The core domain of hirudin from the leech Hirudinaria manillensis. Chemical modification of a tryptophan-containing synthetic peptide analog. De Antoni F, et al. **Adv Exp Med Biol** 1996;398:627-33

Kinetics of competitive binding with application to thrombin complexes. Wedemeyer WJ, et al. **Anal Biochem** 1997 May 15;248(1):130-40

Covalent linkage of recombinant hirudin to poly(ethylene terephthalate) (Dacron): creation of a novel antithrombin surface. Phaneuf MD, et al. **Biomaterials** 1997 May; 18(10):755-65

NMR solution structure of a novel hirudin variant HM2, N-terminal 1-47 and N64-->V + G mutant. Nicastro G, et al. **Biopolymers** 1997 Jun;41(7):731-49

Biochemistry and biology of hirudin. Toschi V, et al. **Coron Artery Dis** 1996 Jun;7(6):420-8 (95 ref.)

Structure-activity studies on C-terminal hirudin peptides containing sulfated tyrosine residues. Muramatsu R, et al. **Int J Pept Protein Res** 1996 Aug;48(2):167-73

A two-stage mechanism for the reductive unfolding of disulfide-containing proteins. Chang JY. **J Biol Chem** 1997 Jan 3;272(1):69-75

Characterization of a beta-Asp33 isoform of recombinant hirudin sequence variant 1 by low-energy collision-induced dissociation. Schindler P, et al. **J Mass Spectrom** 1996 Sep;31(9):967-74

State of aggregation of recombinant hirudin in solution under physiological conditions. Thannhauser TW, et al. **J Protein Chem** 1996 Nov;15(8):751-3

A strong thrombin-inhibitory prourokinase derivative with sequence elements from hirudin and the human thrombin receptor. Wnendt S, et al. **Protein Eng** 1997 Feb; 10(2):169-73

Reevaluating the effects of tyrosine iodination of recombinant hirudin on its thrombin inhibition kinetics. Komatsu Y, et al. **Thromb Res** 1997 Aug 15;87(4):343-52

GENETICS

NMR solution structure of a novel hirudin variant HM2, N-terminal 1-47 and N64-->V + G mutant. Nicastro G, et al. **Biopolymers** 1997 Jun;41(7):731-49

METABOLISM

Nonpolar interactions of thrombin and its inhibitors at the fibrinogen recognition exosite: thermodynamic analysis. Cheng Y, et al. **Biochemistry** 1996 Oct 8;35(40):13021-9

Kinetic studies of the regeneration of recombinant hirudin variant 1 with oxidized and reduced dithiothreitol. Thannhauser TW, et al. **Biochemistry** 1997 Feb 25; 36(8):2154-65

Electrostatic interactions in hirudin-thrombin binding. Sharp KA. **Biophys Chem** 1996 Aug 30;61(1):37-49

Synthesis of peptide p-nitroanilides mimicking fibrinogen- and hirudin-binding to thrombin. Design of slow reacting thrombin substrates. Rijkers DT, et al. **Int J Pept Protein Res** 1996 Aug;48(2):182-93

Binding of fibrin monomer and heparin to thrombin in a ternary complex alters the environment of the thrombin catalytic site, reduces affinity for hirudin, and inhibits cleavage of fibrinogen. Hogg PJ, et al. **J Biol Chem** 1996 Oct 18;271(42):26088-95

Immobilized hirudin and hirudin-based peptides used for the purification of recombinant human thrombin prepared from recombinant human prothrombin. Fischer BE, et al. **Protein Expr Purif** 1996 Sep;8(2):167-74

Thrombin inhibitors of bloodsucking animals. Dodt J, et al. **Semin Thromb Hemost** 1996;22(2):203-8 (44 ref.)

PHARMACOKINETICS

Potent antithrombin activity and delayed clearance from the circulation characterize recombinant hirudin genetically fused to albumin. Syed S, et al. **Blood** 1997 May 1; 89(9):3243-52

Pharmacokinetics of recombinant hirudin in hemodialyzed end-stage renal failure patients. Vanholder R, et al. **Thromb Haemost** 1997 Apr;77(4):650-5

PHARMACOLOGY

Platelet aggregation, sensitivity to prostaglandin E1 and

thromboxane A2 release in recombinant hirudin- and heparin-anticoagulated blood. Viigimaa M, et al. **Blood Coagul Fibrinolysis** 1996 Mar;7(2):259–61

Arterial thrombin activity after angioplasty in an atherosclerotic rabbit model: time course and effect of hirudin. Barry WL, et al. **Circulation** 1996 Jul 1;94(1):88–93

Potential advantages of direct-acting thrombin inhibitors. Philippides GJ, et al. **Coron Artery Dis** 1996 Jul; 7(7):497–507 (100 ref.)

Recombinant hirudin as an anticoagulant during cardiac operations: experiments in a pig model. Riess FC, et al. **Eur J Cardiothorac Surg** 1997 Apr;11(4):739–45

Influence of recombinant hirudin on tissue-factor-induced activation of coagulation in rabbits. Kouz J, et al. **Haemostasis** 1996 Jul–Aug;26(4):179–86

Influence of heparin, heparin plus aprotinin and hirudin on contact activation in a cardiopulmonary bypass model. Wendel HP, et al. **Immunopharmacology** 1996 May; 32(1–3):57–61

A new single-injury model of balloon angioplasty in cholesterol-fed rabbits: beneficial effect of hirudin and comparison with double-injury model. Barry WL, et al. **Lab Invest** 1997 Jul;77(1):109–16

Recombinant hirudin prevents postoperative fibrin formation after experimental cataract surgery. Mittra RA, et al. **Ophthalmology** 1997 Mar;104(3):558–61

Comparison of the anticoagulant activities of thrombin inhibitors as assessed by thromboelastographic analysis. Callas D, et al. **Semin Thromb Hemost** 1995;21 Suppl 4:76–9

Hirudins: from leeches to man. Wallis RB. **Semin Thromb Hemost** 1996;22(2):185–96 (95 ref.)

Inhibition of thrombin by hirudin genetically fused to wild-type or mutant antithrombin. Syed S, et al. **Thromb Res** 1996 Dec 15;84(6):419–29

Hirudin stimulates prostacyclin but not endothelin-1 production in cultured human vascular endothelial cells. Turunen P, et al. **Thromb Res** 1996 Mar 15;81(6):635–40

Influence of different anticoagulants on platelet aggregation in whole blood; a comparison between citrate, low molecular mass heparin and hirudin. Wallén NH, et al. **Thromb Res** 1997 Jul 1;87(1):151–7

THERAPEUTIC USE

A technique to investigate microvascular mural thrombus formation in arteries and veins: II. Effects of aspirin, heparin, r-hirudin, and G-4120. Stockmans F, et al. **Ann Plast Surg** 1997 Jan;38(1):63–8

The role of the leech in medical therapeutics. Eldor A, et al. **Blood Rev** 1996 Dec;10(4):201–9 (108 ref.)

Antithrombotic potency of hirudin is increased in nonhuman primates by fibrin targeting. Bode C, et al. **Circulation** 1997 Feb 18;95(4):800–4

Direct thrombin inhibitors in cardiovascular disease. Catella-Lawson F. **Coron Artery Dis** 1997 Feb;8(2):105–11 (34 ref.)

Clinical trials of recombinant hirudin in acute coronary syndromes. Challapalli R, et al. **Coron Artery Dis** 1996 Jun; 7(6):429–37 (49 ref.)

Enhancement of recombinant tissue-type plasminogen activator thrombolysis with a selective factor Xa inhibitor derived from the leech Hirudo medicinalis: comparison with heparin and hirudin in a rabbit thrombosis model. Kornowski R, et al. **Coron Artery Dis** 1996 Dec;7(12):903–9

Evaluation of recombinant hirudin (CGP 39,393/TMREVASC) in the prevention of restenosis after percutaneous transluminal coronary angioplasty. Rationale and design of the HELVETICA trial, a multicentre randomized double blind heparin controlled study. Herrman JP, et al. **Eur Heart J** 1995 Nov;16 Suppl L:56–62 (54 ref.)

Recombinant hirudin (HBW 023) produces stable anticoagulation unaffected by circadian variation in patients with thrombolysis for acute myocardial infarction. Zeymer U, et al. **Eur Heart J** 1996 Dec;17(12):1836–40

Thrombin inhibitory and clot-specific fibrinolytic activities of the urokinase variant, M23 (rscu-PA-40 kDa/Hir). Schneider J, et al. **Eur J Pharmacol** 1996 Apr 29; 302(1–3):69–77

Medicinal leeches: ancient therapy is a source of biotech drugs. Piascik P. **J Am Pharm Assoc (Wash)** 1997 May–Jun; NS37(3):285–6 (0 ref.)

Recombinant hirudin is a heparin alternative in cardiac surgery [letter; comment] Riess FC, et al. **J Cardiothorac Vasc Anesth** 1997 Jun;11(4):538–9. Comment on: J Cardiothorac Vasc Anesth 1996 Jun;10(4):521–30.

Reduction of adhesion formation by intraperitoneal administration of a recombinant Hirudin analog. Rodgers KE, et al. **J Invest Surg** 1996 Sep–Oct;9(5):385–91

Comparison of the antithrombotic effect of the new recombinant hirudin HBW 023 and heparin in small arteries and veins. Zhang B, et al. **Microsurgery** 1996;17(2):89–96

Recombinant hirudin in the prevention of venous thromboembolism in patients undergoing elective hip surgery. Agnelli G, et al. **Semin Thromb Hemost** 1997; 23(2):143–8

Monitoring of r-hirudin anticoagulation during cardiopulmonary bypass—assessment of the whole blood ecarin clotting time. Pötzsch B, et al. **Thromb Haemost** 1997 May;77(5):920–5

Prevention of early reocclusion after thrombolysis of copper coil-induced thrombi in the canine carotid artery: comparison of PEG-hirudin and unfractionated heparin. Rübsamen K, et al. **Thromb Haemost** 1996 Jul;76(1):105–10

Subcutaneous recombinant hirudin (HBW 023) versus intravenous sodium heparin in treatment of established acute deep vein thrombosis of the legs: a multicentre prospective dose-ranging randomized trial. International Multicentre Hirudin Study Group. Schiele F, et al. **Thromb Haemost** 1997 May;77(5):834–8

A novel chimaeric derivative of saruplase, rscu-PA-40 kDA/Hir, binds to thrombin and exerts thrombus-specific fibrinolysis in arterial and venous thrombosis in dogs. Schneider J, et al. **Thromb Haemost** 1997 Mar;77(3):535–9

[Hirudin: the relative failure of a very promising molecule] Aiach M. **Arch Mal Coeur Vaiss** 1996 Nov;89(11 Suppl):1485–90 (Eng. Abstr.) **(Fre)**

[Direct thrombin inhibitors] Bornkessel B. **Med Monatsschr Pharm** 1997 Apr;20(4):86–9 (3 ref.) **(Ger)**

HIRUDINEA see **LEECHES**

HISPANIC AMERICANS

Binge eating in ethnic minority groups. Smith DE. **Addict Behav** 1995 Nov–Dec;20(6):695–703 (45 ref.)

Depression and smoking initiation among US Latinos. Escobedo LG, et al. **Addiction** 1996 Jan;91(1):113–9

Education of Hispanic youth: a cultural lag. DeBlassie AM, et al. **Adolescence** 1996 Spring;31(121):205–15

Testing and treatment behaviour of HIV-infected women: white, African-American, Puerto Rican comparisons. Siegel K, et al. **AIDS Care** 1997 Jun;9(3):297–309

HIV-related concerns and behaviors among Hispanic women. Deren S, et al. **AIDS Educ Prev** 1996 Aug; 8(4):335–42

HIV risk behaviors among Dominican brothel and street prostitutes in New York City. Deren S, et al. **AIDS Educ Prev** 1996 Oct;8(5):444–56

HIV risk among Latino gay men in the Southwestern United States. Diaz RM, et al. **AIDS Educ Prev** 1996 Oct; 8(5):415–29

The Spanish Instrument Protocol: design and implementation of a study to evaluate treatment efficacy Instruments for Spanish-speaking patients with Alzheimer's disease. The Alzheimer's Disease Cooperative Study. Sano M, et al. **Alzheimer Dis Assoc Disord** 1997;11 Suppl 2:S57–64

Deaf students' recall of Spanish vocabulary under three testing conditions [published erratum appears in Am Ann Deaf 1997 Mar;142(1):4] Ammons DK, et al. **Am Ann Deaf** 1996 Dec;141(5):340–5

Temporal trends in diabetes mortality among American Indians and Hispanics in New Mexico: birth cohort and period effects. Gilliland FD, et al. **Am J Epidemiol** 1997 Mar 1;145(5):422–31

Increased use of mammography among Hispanic women: baseline results from the NCI Cooperative Group on Cancer Prevention in Hispanic Communities. Kaplan RM, et al. **Am J Prev Med** 1996 Nov–Dec;12(6):467–71

Correlates of health promotion behaviors in low-income Black women and Latinas. Sanders-Phillips K. **Am J Prev Med** 1996 Nov–Dec;12(6):450–8

A model immunization demonstration for preschoolers in an inner-city barrio, San Diego, California, 1992–1994. Waterman SH, et al. **Am J Prev Med** 1996 Jul–Aug;12(4 Suppl):8–13

Differences in patterns of tobacco use in Vietnamese, African-American, Hispanic, and Caucasian adolescents in Worcester, Massachusetts. Wiecha JM. **Am J Prev Med** 1996 Jan–Feb;12(1):29–37

Lead poisoning among US Hispanic children [letter; comment] Carter-Pokras O, et al. **Am J Public Health** 1996 Oct;86(10):1479–80. Comment on: Am J Public Health 1995 Apr;85(4):528–34.

Hispanic Health and Nutrition Examination Survey: methodological considerations. Delgado JL, et al. **Am J Public Health** 1990 Dec;80 Suppl:6–10

Sudden cardiac death in Hispanic Americans and African Americans. Gillum RF. **Am J Public Health** 1997 Sep; 87(9):1461–6

The role of diabetes mellitus in the higher prevalence of tuberculosis among Hispanics. Pablos-Méndez A, et al. **Am J Public Health** 1997 Apr;87(4):574–9

The validity of self-reports of smoking: analyses by race/ethnicity in a school sample of urban adolescents. Wills TA, et al. **Am J Public Health** 1997 Jan;87(1):56–61

Asthma among Puerto Rican Hispanics: a multi-ethnic comparison study of risk factors. Beckett WS, et al. **Am J Respir Crit Care Med** 1996 Oct;154(4 Pt 1):894–9

The influence of diabetes, hypertension, and stroke on ethnic differences in physical and cognitive functioning in an ethnically diverse older population. Haan MN, et al. **Ann Epidemiol** 1996 Sep;6(5):392–8

Beliefs about sexual behavior and other predictors of Papanicolaou smear screening among Latinas and Anglo women. Hubbell FA, et al. **Arch Intern Med** 1996 Nov 11;156(20):2353–8

Anthropometric analysis of the female Latino nose. Revised aesthetic concepts and their surgical implications. Milgrim LM, et al. **Arch Otolaryngol Head Neck Surg** 1996 Oct; 122(10):1079–86

Low birth weight and Latino ethnicity. Examining the epidemiologic paradox. Fuentes-Afflick E, et al. **Arch Pediatr Adolesc Med** 1997 Jul;151(7):665–74

Breast cancer stage at diagnosis: Caucasians versus Hispanics. Zaloznik AJ. **Breast Cancer Res Treat** 1997 Jan;42(2):121–4

Breast cancer survival among New Mexico Hispanic, American Indian, and non-Hispanic white women (1973–1992). Frost F, et al. **Cancer Epidemiol Biomarkers Prev** 1996 Nov;5(11):861–6

Analgesia for emergency centers' orthopaedic patients: does an ethnic bias exist? Karpman RR, et al. **Clin Orthop** 1997 Jan;(334):270–5

Reported pap test use by Hispanic women in Connecticut and Long Island. Polednak AP. **Conn Med** 1996 Jan; 60(1):3–8

Cultural formulation of psychiatric diagnosis. Case No. 02. Diagnosis and treatment of Nervios and Ataques in a female Puerto Rican migrant. Lewis-Fernández R. **Cult Med Psychiatry** 1996 Jun;20(2):155–63

Immigrant characteristics and Hispanic-Anglo housing inequality. Krivo LJ. **Demography** 1995 Nov;32(4):599–615

Migration and premarital childbearing among Puerto Rican Women. Landale NS, et al. **Demography** 1996 Nov; 33(4):429–42

Unintended consequences of immigration reform: discrimination and Hispanic employment. Lowell BL, et al. **Demography** 1995 Nov;32(4):617–28

Insulin sensitivity and abdominal obesity in African-American, Hispanic, and non-Hispanic white men and women. The Insulin Resistance and Atherosclerosis Study. Karter AJ, et al. **Diabetes** 1996 Nov;45(11):1547–55

Sociodemographic correlates of hearing loss and hearing aid use in Hispanic adults. Lee DJ, et al. **Epidemiology** 1996 Jul;7(4):443–6

Target marketing of tobacco and alcohol-related products to ethnic minority groups in the United States. Moore DJ, et al. **Ethn Dis** 1996 Winter-Spring;6(1–2):83–98 (56 ref.)

Racism and perinatal addiction. Neuspiel DR. **Ethn Dis** 1996 Winter-Spring;6(1–2):47–55 (45 ref.)

NIDDM incidence in a tri-ethnic population of diagnosed hypertensives. Pavlik VN, et al. **Ethn Dis** 1996 Autumn; 6(3–4):213–23

The influence of ethnicity and culture on the caregiver stress and coping process: a sociocultural review and analysis. Aranda MP, et al. **Gerontologist** 1997 Jun;37(3):342–54 (92 ref.)

The Latino Health Advocacy Program: a collaborative lay health advisor approach. Baker EA, et al. **Health Educ Behav** 1997 Aug;24(4):495–509

The impact of the Wellness Guide/Guía on Hispanic women's well-being-related knowledge, efficacy beliefs, and behaviors: the mediating role of acculturation. Bell RA, et al. **Health Educ Behav** 1997 Jun;24(3):326–43

Leptin concentrations in relation to overall adiposity and regional body fat distribution in Mexican Americans. Haffner SM, et al. **Int J Obes Relat Metab Disord** 1996 Oct;20(10):904–8

Ethnicity and body dissatisfaction: are Hispanic and Asian girls at increased risk for eating disorders? [see comments] Robinson TN, et al. **J Adolesc Health** 1996 Dec; 19(6):384–93. Comment in: J Adolesc Health 1997 Jul;21(1):1.

Assessing food purchase behavior among low-income black and Hispanic clients using a self-reported shelf inventory. Beto JA, et al. **J Am Diet Assoc** 1997 Jan;97(1):69–70

Development of a protocol to assess dietary intake among Hispanics who have low literacy skills in English. Lyons GK, et al. **J Am Diet Assoc** 1996 Dec;96(12):1276–9

Organizing the community to target poor Latino children with asthma. Lewis MA, et al. **J Asthma** 1996;33(5):289–97

Promoting prosthetics in the Latino community. Jaramillo R, et al. **J Biocommun** 1995;22(3):18–23

Breast cancer screening: racial/ethnic differences in behaviors and beliefs. Friedman LC, et al. **J Cancer Educ** 1995 Winter;10(4):213–6

Smoking and socioeconomic status in a population-based inner city sample of African-Americans, Latinos and whites. Siegel D, et al. **J Cardiovasc Risk** 1996 Jun; 3(3):295–300

Family support decreases influence of deviant peers on Hispanic adolescents' substance use. Frauenglass S, et al. **J Clin Child Psychol** 1997 Mar;26(1):15–23

An open-label study of SSRI treatment in depressed hispanic and non-Hispanic women [letter] Alonso M, et al. **J Clin Psychiatry** 1997 Jan;58(1):31

The role of stimulability in the assessment and treatment of Spanish-speaking children. Goldstein BA. **J Commun Disord** 1996 Jul–Aug;29(4):299–314

Developing and evaluating a Spanish TEL-MED message on breast cancer. Ward B, et al. **J Community Health** 1997 Apr;22(2):127–35

Health care of Latina women. Sociocultural factors. Vera MI. **J Fla Med Assoc** 1996 Aug–Sep;83(7):494–7 (15 ref.)

The influence of knowledge and attitudes about breast cancer on mammography use among Latinas and Anglo women. Hubbell FA, et al. **J Gen Intern Med** 1997 Aug;12(8):505–8

Ethnic differences in insulin resistance and its consequences in older Mexican American and non-Hispanic white women. Aguirre MA, et al. **J Gerontol A Biol Sci Med Sci** 1997 Jan;52(1):M56–60

The structure of health status among Hispanic, African American, and white older adults. Stump TE, et al. **J Gerontol B Psychol Sci Soc Sci** 1997 May;52 Spec No:49–60

Cancer-screening determinants among Hispanic women using migrant health clinics. Skaer TL, et al. **J Health Care Poor Underserved** 1996 Nov;7(4):338–54

Human immunodeficiency virus RNA levels in US adults: a comparison based upon race and ethnicity. Brown AE, et al. **J Infect Dis** 1997 Sep;176(3):794–7

Health outcomes research on Hispanics/Latinos. Giachello AL. **J Med Syst** 1996 Oct;20(5):235–54 (41 ref.)

Challenges and opportunities in establishing a Latino health research center in a majority academic institution. Giachello AL. **J Med Syst** 1996 Oct;20(5):351–76 (14 ref.)

Hispanic/Latino health outcomes research. Introduction to special issue. Gray J, et al. **J Med Syst** 1996 Oct; 20(5):229–33 (23 ref.)

Factors affecting diabetes treatment and patient education among Latinos: results of a preliminary study in Chicago. Lipton R, et al. **J Med Syst** 1996 Oct;20(5):267–76

Practice variations in treating urban minority asthmatics in Chicago. McDermott M, et al. **J Med Syst** 1996 Oct; 20(5):255–66

Maternal and paternal risk factors and adverse neonatal outcomes among Hispanic subgroups in Illinois (1989 through 1993). Patel D, et al. **J Perinatol** 1997 Jul–Aug; 17(4):270–5

AIDS among children—United States, 1996. Division of HIV/AIDS Prevention, CDC [corrected and republished in J Sch Health 1997 May;67(5):175–7] **J Sch Health** 1997 Apr;67(4):141–3

Latino families: partners for success in school settings. Pérez MA, et al. **J Sch Health** 1997 May;67(5):182–4 (19 ref.)

Speaking fundamental frequency characteristics of white, African American, and Hispanic kindergartners. Awan SN, et al. **J Speech Hear Res** 1996 Jun;39(3):573–7

Alcohol, drug use and consequences among Hispanics seeking treatment for alcohol-related problems. Arciniega LT, et al. **J Stud Alcohol** 1996 Nov;57(6):613–8

Reliability of Spanish translations of select urological quality of life instruments. Krongrad A, et al. **J Urol** 1997 Aug; 158(2):493–6

Influence of ethnicity on advance directives and end-of-life decisions [letter] Romero LJ, et al. **JAMA** 1997 Jan 22–29; 277(4):298–9

'Hard to reach' Hispanics get health news via physician's radio, TV shows [news] Skolnick AA. **JAMA** 1997 Jul 23–30;278(4):269–70, 272

Purity and passion: risk and morality in Latina immigrants' and physicians' beliefs about cervical cancer. Martinez RG, et al. **Med Anthropol** 1997 Jun;17(4):337–62

Prevention and treatment of HIV infections in minorities in the US military: a review of military research. Brown AE, et al. **Mil Med** 1996 Feb;161(2):123–7

Attitudes of Army nurses toward African American and Hispanic patients. Joseph HJ. **Mil Med** 1997 Feb; 162(2):96–100

Iron overload disorders among Hispanics—San Diego, California, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Nov 15;45(45):991–3

Characteristics of foreign-born Hispanic patients with tuberculosis—eight U.S. counties bordering Mexico, 1995. **MMWR Morb Mortal Wkly Rep** 1996 Nov 29; 45(47):1032–6

Neuroleptic dosing in Hispanic and Asian Inpatients with schizophrenia. Collazo Y, et al. **Mt Sinai J Med** 1996 Oct–Nov;63(5–6):310–3

Neuroleptic dosing in Asian and Hispanic outpatients with schizophrenia. Ruiz S, et al. **Mt Sinai J Med** 1996 Oct–Nov; 63(5–6):306–9

Incidence and prevalence of dementia in a multiethnic cohort of municipal retirees. Perkins P, et al. **Neurology** 1997 Jul; 49(1):44–50

Linkage of the locus for cerebral cavernous hemangiomas to human chromosome 7q in four families of Mexican-American descent. Polymeropoulos MH, et al. **Neurology** 1997 Mar;48(3):752–7

Mindfulness meditation-based stress reduction: experience with a bilingual inner-city program [published erratum appears in Nurse Pract 1997 May;22(5):215] Roth B, et al. **Nurse Pract** 1997 Mar;22(3):150–2, 154, 157 passim

Sexual behavior and vaginal colonization by group B streptococcus among minority women. Newton ER, et al. **Obstet Gynecol** 1996 Oct;88(4 Pt 1):577–82

Use of screening mammography and clinical breast examinations among black, Hispanic, and white women. Frazier EL, et al. **Prev Med** 1996 Mar–Apr;25(2):118–25

The influence of gender and socioeconomic factors on Hispanic/white differences in body mass index. Winkleby MA, et al. **Prev Med** 1996 Mar–Apr;25(2):203–11

Race, quality of care, and antipsychotic prescribing practices in psychiatric emergency services. Segal SP, et al. **Psychiatr Serv** 1996 Mar;47(3):282–6

Ethnic differences in analgesic consumption for postoperative pain. Ng B, et al. **Psychosom Med** 1996 Mar–Apr; 58(2):125–9

More does not mean better: prenatal visits and pregnancy outcome in the Hispanic population. Goss GL, et al. **Public Health Nurs** 1997 Jun;14(3):183–8

Comprehensive interdisciplinary care: making a difference in pregnancy outcomes for Hispanic women. Pearce CW, et al. **Public Health Nurs** 1996 Dec;13(6):416–24

Papers form the National Heart, Lung, and Blood Institute workshop on hypertension in selected U.S. minority populations. Washington, D.C. **Public Health Rep** 1996;111 Suppl 2:1–79

Epidemiology of hypertension from childhood to young adulthood in black, white, and Hispanic population samples. Berenson GS, et al. **Public Health Rep** 1996;111 Suppl 2:3–6

Hypertension and other cardiovascular disease risk factors among Mexican Americans, Cuban Americans, and Puerto Ricans from the Hispanic Health and Nutrition Examination Survey. Crespo CJ, et al. **Public Health Rep** 1996;111 Suppl 2:7–10

Putting it all together: summary of the NHLBI Workshop on the Epidemiology of Hypertension in Hispanic American, Native American, and Asian/Pacific Islander American Populations. Havas S, et al. **Public Health Rep** 1996;111 Suppl 2:77–9

The NHLBI workshop on Hypertension in Hispanic Americans, Native Americans, and Asian/Pacific Islander Americans. Havas S, et al. **Public Health Rep** 1996 Sep–Oct;111(5):451–8

Comparisons of blood pressure between Asian-American children and children from other racial groups in Chicago. Liu K, et al. **Public Health Rep** 1996;111 Suppl 2:65–7

Blood pressure among Mexican-American, Cuban-American, and mainland Puerto Rican children. Loria CM, et al. **Public Health Rep** 1996;111 Suppl 2:22–4

Hypertension in Hispanic Americans: overview of the population. Ramirez AG. **Public Health Rep** 1996;111 Suppl 2:25–6 (10 ref.)

Hypertension among rural Hispanics and non-Hispanic whites: the San Luis Valley Diabetes Study. Rewers M, et al. **Public Health Rep** 1996;111 Suppl 2:27–9

Sociodemographic influences on Hispanic-white differences in blood pressure. Winkleby MA, et al. **Public Health Rep** 1996;111 Suppl 2:30–2

Seroprevalence of and risk factors for antibodies to herpes simplex viruses, hepatitis B, and hepatitis C among southwestern Hispanic and non-Hispanic white women. Becker TM, et al. **Sex Transm Dis** 1996 Mar–Apr; 23(2):138–44

Puerto Rican sons as primary caregivers of elderly parents. Delgado M, et al. **Soc Work** 1997 Mar;42(2):125–34

Hispanic Americans in the United States: Young, dynamic and diverse. del Pinal JH. **Stat Bull Metrop Insur Co** 1996 Oct–Dec;77(4):2–13

Race-ethnicity and determinants of carotid atherosclerosis in a multiethnic population. The Northern Manhattan Stroke Study. Sacco RL, et al. **Stroke** 1997 May; 28(5):929–35

Changes in drinking problems among whites, blacks, and Hispanics: 1984–1992. Caetano R, et al. **Subst Use Misuse** 1996 Sep–Oct;31(11–12):1547–71

Expectancies for driving under the influence of alcohol among Hispanics and non-Hispanic Whites. Posner SF, et al. **Subst Use Misuse** 1996 Mar;31(4):409–21

Flour from another sack. Understanding culture is key to treating Hispanic immigrant patients. Carlson RP. **Tex Med** 1996 Oct;92(10):36–43

Needs of the Hispanic elderly reflect cultural differences. Otiniano ME, et al. **Tex Med** 1996 Oct;92(10):33–4

Transplantation in Hispanics: five hundred kidney transplants in Puerto Rico. Otero LM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1590–3

CLASSIFICATION

Predictors of misclassification of Hispanic ethnicity in a population-based cancer registry. Swallen KC, et al. **Ann Epidemiol** 1997 Apr;7(3):200–6

Hispanic patients in an academic group practice: measurement issues and comparisons with non-Hispanics. Fein OT, et al. **J Assoc Acad Minor Phys** 1996;7(1):31–6

EDUCATION

Qualitative development of smoking prevention programming for minority youth. Parker VC, et al. **Addict Behav** 1996 Jul–Aug;21(4):521–5

Enrollment in English-as-a-second-language class as a predictor of tuberculosis infection in schoolchildren. Denison AV, et al. **Public Health Rep** 1996 Sep–Oct; 111(5):428–30

GENETICS

Mitochondrial versus nuclear admixture estimates demonstrate a past history of directional mating. Merriwether DA, et al. **Am J Phys Anthropol** 1997 Feb; 102(2):153–9

PSYCHOLOGY

Expectancies for drinking and excessive drinking among Mexican Americans and non-Hispanic whites. Marín G. **Addict Behav** 1996 Jul–Aug;21(4):491–507

Postrenal transplant compliance from the perspective of African-Americans, Hispanic-Americans, and Anglo-Americans. Siegal BR, et al. **Adv Ren Replace Ther** 1997 Jan;4(1):46–54

Use of folk healing practices by HIV-infected Hispanics living in the United States. Suarez M, et al. **AIDS Care** 1996 Dec;8(6):683–90

Factors related to condom use with casual partners among urban African-American and Hispanic males. Ford K, et al. **AIDS Educ Prev** 1995 Dec;7(6):494–503

Ethnic differences in the association between behavior with a new partner: an event-based analysis. Graves KL, et al. **AIDS Educ Prev** 1997 Jun;9(3):219–37

A self-efficacy scale for HIV risk behaviors: development and evaluation. Smith KW, et al. **AIDS Educ Prev** 1996 Apr;8(2):97–105

HIV risk behaviors: a comparison of U.S. Hispanic and Dominican Republic youth. Westhoff WW, et al. **AIDS Educ Prev** 1996 Apr;8(2):106–14

Ethnocultural differences in prevalence of adolescent depression. Roberts RE, et al. **Am J Community Psychol** 1997 Feb;25(1):95–110

Depression in Latina mothers of children with mental retardation: a neglected concern. Blacher J, et al. **Am J Ment Retard** 1997 Mar;101(5):483–96

Perceived burden among caregivers of adults with serious mental illness: comparison of black, Hispanic, and white families. Stueve A, et al. **Am J Orthopsychiatry** 1997 Apr; 67(2):199–209

Evaluating AIDS-related social skills in Anglo and Latino adolescents. Focus on assessment. Blumberg EJ, et al. **Behav Modif** 1997 Jul;21(3):281–307

Abnormality of EEG alpha asymmetry in female adolescent suicide attempters. Graae F, et al. **Biol Psychiatry** 1996 Oct 15;40(8):706–13

Assessing sexual dimensions in Hispanic women. Development of an instrument. Adams J, et al. **Cancer Nurs** 1997 Aug;20(4):251–9

Hispanic women's beliefs about breast cancer and mammography. Salazar MK. **Cancer Nurs** 1996 Dec; 19(6):437–46

Ethnic differences in circumstances of abuse and symptoms of depression and anger among sexually abused black and Latino boys. Moisan PA, et al. **Child Abuse Negl** 1997 May; 21(5):473–88

Risk predictors for re-abuse or re-neglect in a predominantly Hispanic population. Wood JM. **Child Abuse Negl** 1997 Apr;21(4):379–89

Culture and class influences on Anglo and Puerto Rican mothers' beliefs regarding long-term socialization goals and child behavior. Harwood RL, et al. **Child Dev** 1996 Oct; 67(5):2446–61

"Dichos" therapy group: a therapeutic use of Spanish language proverbs with hospitalized Spanish-speaking psychiatric patients. Aviera A. **Cult Divers Ment Health** 1996;2(2):73–87

Stress, social support, and college adjustment among Latino students. Jarama Alvan SL, et al. **Cult Divers Ment Health** 1996;2(3):193–203

Research on mental health services for Hispanics: targets of convergence. Rogler LH. **Cult Divers Ment Health** 1996; 2(3):145–56 (60 ref.)

DSM-IV alcohol dependence and drug abuse/dependence in a treatment sample of whites, blacks and Mexican Americans. Caetano R, et al. **Drug Alcohol Depend** 1996 Dec 2;43(1–2):93–101

Factors associated with use of the female condom. Sly DF, et al. **Fam Plann Perspect** 1997 Jul–Aug;29(4):181–4

Changes in reported awareness of product warning labels and messages in cohorts of California Hispanics and non-Hispanic whites. Marín G, et al. **Health Educ Behav** 1997 Apr;24(2):230–44

Involving parents in cancer risk reduction: a program for Hispanic American families. Fitzgibbon ML, et al. **Health Psychol** 1996 Nov;15(6):413–22

Alternative health practices in ethnically diverse rural areas: a collaborative research project. Vest GW, et al. **Health Soc Work** 1997 May;22(2):95–100

Strain among caregivers: comparing the experiences of African American and Hispanic caregivers of Alzheimer's relatives. Cox C, et al. **Int J Aging Hum Dev** 1996; 43(2):93–105

Enhancing Latin American women's self-concept: a group intervention. Guanipa C, et al. **Int J Group Psychother** 1997 Jul;47(3):355–72

Sociobehavioral influences on smoking initiation of Hispanic adolescents. Cowdery JE, et al. **J Adolesc Health** 1997 Jan; 20(1):46–50

Body dissatisfaction among Hispanic and Asian-American girls [letter; comment] Pumariega AJ. **J Adolesc Health** 1997 Jul;21(1):1. Comment on: J Adolesc Health 1996 Dec;19(6):384–93.

Acculturative stress, depression, and suicidal ideation among immigrant and second-generation Latino adolescents. Hovey JD, et al. **J Am Acad Child Adolesc Psychiatry** 1996 Sep;35(9):1183–92

Enhancing treatment adherence with a specialized emergency room program for adolescent suicide attempters. Rotheram-Borus MJ, et al. **J Am Acad Child Adolesc Psychiatry** 1996 May; 35(5):654–63

Perspectives of Latina immigrant women on Proposition 187. Moss N, et al. **J Am Med Womens Assoc** 1996 Aug–Oct; 51(4):161–5

Family processes and risk for externalizing behavior problems among African American and Hispanic boys. Florsheim P, et al. **J Consult Clin Psychol** 1996 Dec;64(6):1222–30

Recruiting and retaining low-income Latinos in psychotherapy research. Miranda J, et al. **J Consult Clin Psychol** 1996 Oct;64(5):868–74

Drug use and delinquency: shared and unshared risk factors in African American and Puerto Rican adolescents. Brook

JS, et al. **J Genet Psychol** 1997 Mar;158(1):25–39

The role of Latino/Hispanic communities in health services research: strategies for a meaningful partnership. Zambrana RE. **J Med Syst** 1996 Oct;20(5):317–28 (21 ref.)

Stressful events among pregnant Salvadoran women: a cross-cultural comparison. Gaffney KF, et al. **J Obstet Gynecol Neonatal Nurs** 1997 May–Jun; 26(3):303–10

The Spanish version of the Parental Stressor Scale: Pediatric Intensive Care Unit. Rei RM, et al. **J Pediatr Nurs** 1996 Feb;11(1):3–9

Masculinity, femininity, and Hispanic professional men's self-esteem and self-acceptance. Long VO, et al. **J Psychol** 1997 Sep;131(5):481–8

Counseling Latino alcohol and other substance users/abusers. Cultural considerations for counselors. Gloria AM, et al. **J Subst Abuse Treat** 1996 Mar–Apr;13(2):119–26 (80 ref.)

The impact of Hurricane Andrew on deviant behavior among a multi-racial/ethnic sample of adolescents in Dade County, Florida: a longitudinal analysis. Khoury EL, et al. **J Trauma Stress** 1997 Jan;10(1):71–91

The theory of planned behavior applied to cigarette smoking in African-American, Puerto Rican, and non-Hispanic white teenage females. Hanson MJ. **Nurs Res** 1997 May–Jun;46(3):155–62

Getting a Pap smear: focus group responses of African American and Latina women. Jennings KM. **Oncol Nurs Forum** 1997 Jun;24(5):827–35

Factors influencing Hispanic participation in prostate cancer screening. Zimmerman SM. **Oncol Nurs Forum** 1997 Apr; 24(3):499–504

Use of health care services by persons with panic symptoms. Katerndahl DA, et al. **Psychiatr Serv** 1997 Aug; 48(8):1027–32

Issues in the psychiatric care of Hispanics. Ruiz P. **Psychiatr Serv** 1997 Apr;48(4):539–40

MMPI performance of central American refugees and Mexican immigrants. Clark S, et al. **Psychol Rep** 1996 Dec; 79(3 Pt 1):819–24

Validation of an acculturation measure for Hispanic adolescents. Epstein JA, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):1075–9

Nonverbal intellectual assessment of Hispanic and speech-impaired adolescents. Flemmer DD, et al. **Psychol Rep** 1997 Jun;80(3 Pt 2):1115–22

Profiles of Hispanic adolescents and adults on the Holland Themes and Basic Interest Scales of the Strong Interest Inventory. Kaufman AS, et al. **Psychol Rep** 1996 Dec;79(3 Pt 2):1279–88

Self-reported depression and risk-taking behaviors among Hispanic adolescents. Pesa JA, et al. **Psychol Rep** 1997 Aug; 81(1):235–43

Perceptual differences in racial descriptions of Euro-American and Hispanic persons. Tomkiewicz J, et al. **Psychol Rep** 1997 Jun;80(3 Pt 2):1339–43

Acquisition of high-risk behavior by African-American, Latino, and Caucasian middle-school students. Westhoff WW, et al. **Psychol Rep** 1996 Dec;79(3 Pt 1):787–95

Cervical cancer screening practices among Latino women in Chicago. Peragallo NP, et al. **Public Health Nurs** 1997 Aug;14(4):251–5

Initiation of prenatal care by low-income Hispanic women in Houston. Byrd TL, et al. **Public Health Rep** 1996 Nov–Dec;111(6):536–40

Lay injection practices among migrant farmworkers in the age of AIDS: evolution of a biomedical folk practice. McVea KL. **Soc Sci Med** 1997 Jul;45(1):91–8

Making a difference: women of action in the community. Lazzari MM, et al. **Soc Work** 1996 Mar;41(2):197–205

Factors associated with early sexual activity among urban adolescents. Smith CA. **Soc Work** 1997 Jul;42(4):334–46

The self-generated alcohol expectancies of Puerto Rican drinkers and abstainers. Johnson PB, et al. **Subst Use Misuse** 1996 Jul;31(9):1155–65

The effects of interview mode on smoking attitudes and behavior: self-report among female Latino adolescents. Kaplan CP, et al. **Subst Use Misuse** 1996 Jun;31(8):947–63

Pathways into drug user treatment: the influence of gender and racial/ethnic identity. Kline A. **Subst Use Misuse** 1996 Feb;31(3):323–42

Acculturation and cervical cancer: knowledge, beliefs, and behaviors of Hispanic women. Harmon MP, et al. **Women Health** 1996;24(3):37–57

STATISTICS & NUMERICAL DATA

Correlates of compliance with measurement protocols in a Latino nutrition-intervention study. Frack SA, et al. **Am J Prev Med** 1997 Mar–Apr;13(2):131–6

Attributional bias and reactive aggression. Hudley C, et al. **Am J Prev Med** 1996 Sep–Oct;12(5 Suppl):75–81

Peer and community leader education to prevent youth violence. Wiist WH, et al. **Am J Prev Med** 1996 Sep–Oct; 12(5 Suppl):56–64

Acculturation and marijuana and cocaine use: findings from HHANES 1982–84. Amaro H, et al. **Am J Public Health** 1990 Dec;80 Suppl:54–60

Patterns of cigarette smoking among Hispanics in the United States: results from HHANES 1982–84. Haynes SG, et al. **Am J Public Health** 1990 Dec;80 Suppl:47–53

The prevalence of total tooth loss, dental caries, and periodontal disease among Mexican Americans, Cuban Americans, and Puerto Ricans: findings from HHANES 1982–1984. Ismail AI, et al. **Am J Public Health** 1990 Dec; 80 Suppl:66–70

Socioeconomic status and racial and ethnic differences in functional status associated with chronic diseases [see comments] Kington RS, et al. **Am J Public Health** 1997 May;87(5):805–10. Comment in: Am J Public Health 1997 May;87(5):728–30.

Ethnic differences in the prevalence of nonmalignant respiratory disease among uranium miners [see comments] Mapel DW, et al. **Am J Public Health** 1997 May;87(5):833–8 . Comment in: Am J Public Health 1997 May;87(5):730–2.

Pneumococcal pneumonia and influenza vaccination: access to and use by US Hispanic Medicare beneficiaries. Mark TL, et al. **Am J Public Health** 1996 Nov;86(11):1545–50

Health risk behaviors of Hispanics in the United States: findings from HHANES, 1982–84. Marks G, et al. **Am J Public Health** 1990 Dec;80 Suppl:20–6

Self-rated health among Hispanic vs non-Hispanic white adults: the San Luis Valley Health and Aging Study. Shetterly SM, et al. **Am J Public Health** 1996 Dec; 86(12):1798–801

Acculturation, access to care, and use of preventive services by Hispanics: findings from HHANES 1982–84. Solis JM, et al. **Am J Public Health** 1990 Dec;80 Suppl:11–9

Ovarian cancer incidence and mortality in American Indian, Hispanic, and non-Hispanic white women in New Mexico. Schiff M, et al. **Cancer Epidemiol Biomarkers Prev** 1996 May;5(5):323–7

Effect of a bicultural community health worker on completion of diabetes education in a Hispanic population. Corkery E, et al. **Diabetes Care** 1997 Mar;20(3):254–7

Patterns of hospital use, family history and co-existing conditions among urban African-American and Hispanic-American children with insulin-dependent diabetes mellitus. Lipton RB. **Diabetes Res Clin Pract** 1996 Oct;34 Suppl:S173–9

The influence of birthplace on mortality among Hispanic residents of New York City. Fang J, et al. **Ethn Dis** 1997 Winter;7(1):55–64

Effect of Hispanic ethnicity on interpretation of maternal serum screening. Byrne JL, et al. **Fetal Diagn Ther** 1997 Mar–Apr;12(2):102–6

Differences in private health insurance coverage for working male Hispanics. Fronstin P, et al. **Inquiry** 1997 Summer; 34(2):171–80

Acculturation, socioeconomic status, and obesity in Mexican Americans, Cuban Americans, and Puerto Ricans. Khan LK, et al. **Int J Obes Relat Metab Disord** 1997 Feb; 21(2):91–6

African-American and Puerto Rican drug use: a longitudinal study. Brook JS, et al. **J Am Acad Child Adolesc Psychiatry** 1997 Sep;36(9):1260–8

The underrepresentation of Hispanic women in the health professions. Zambrana RE. **J Am Med Womens Assoc** 1996 Aug–Oct;51(4):147–52 (13 ref.)

Patient-physician pairing: does racial and ethnic congruity influence selection of a regular physician? Gray B, et al. **J Community Health** 1997 Aug;22(4):247–59

The degree of usual provider continuity for African and Latino Americans. Cornelius LJ. **J Health Care Poor Underserved** 1997 May;8(2):170–85

Role burdens: the impact of employment and family responsibilities on the health status of Latino women. Rivera R, et al. **J Health Care Poor Underserved** 1997 Feb; 8(1):99–113

Language, sociodemographics, and health care use of Hispanic adults. Schur CL, et al. **J Health Care Poor Underserved** 1996 May;7(2):140–58

Risk factors for invasive cervical cancer in Latino women. Nápoles-Springer A, et al. **J Med Syst** 1996 Oct; 20(5):277–93 (67 ref.)

Medicaid enrollment and health services access by Latino children in inner-city Los Angeles [see comments] Halfon N, et al. **JAMA** 1997 Feb 26;277(8):636–41. Comment in: JAMA 1997 Feb 26;277(8):672.

Comparison of three methods of data collection in an urban Spanish-speaking population. Lorig K, et al. **Nurs Res** 1997 Jul–Aug;46(4):230–4

Sociodemographic and educational correlates of hearing loss in Hispanic children. Lee DJ, et al. **Paediatr Perinat Epidemiol** 1997 Jul;11(3):333–44

Hispanic subgroup differences in prenatal care. Albrecht SL, et al. **Soc Biol** 1996 Spring–Summer;43(1–2):38–58

Perinatal drug use among immigrant and native-born Latinas. Vega WA, et al. **Subst Use Misuse** 1997 Jan;32(1):43–62

Gender and ethnic differences in the prevalence of alcohol, cigarette, and illicit drug use over time in a cohort of young Hispanic adolescents in south Florida. Khoury EL, et al. **Women Health** 1996;24(1):21–40

HISTAMETIZYN see **MECLIZINE**

HISTAMINASE see **AMINE OXIDASE (COPPER-CONTAINING)**

HISTAMINE

see related
HYPERSENSITIVITY, IMMEDIATE
RECEPTORS, HISTAMINE

Topically applied aspirin rapidly decreases histamine-induced itch. Yosipovitch G, et al. **Acta Derm Venereol** 1997 Jan;77(1):46–8

Replacement of Gln280 by His in TM6 of the human ORL1 receptor increases affinity but reduces intrinsic activity of opioids. Mollereau C, et al. **FEBS Lett** 1996 Oct 14; 395(1):17–21

Histamine: the quintessential mediator. Greaves MW, et al. **J Dermatol** 1996 Nov;23(11):735–40 (43 ref.)

[Recent topics on histamine studies] Watanabe Y, et al. **Nippon Yakurigaku Zasshi** 1996 Sep;108(3):128–31 (0 ref.) **(Jpn)**

ADMINISTRATION & DOSAGE

Nasal histamine provocation of tenants in a sick-building residential area. Ohm M, et al. **Am J Rhinol** 1997 Mar–Apr; 11(2):167–75

Microvascular actions of histamine: synergism with leukotriene B4 and role in allergic leucocyte recruitment. Thorlacius H, et al. **Clin Exp Allergy** 1997 Apr;27(4):445–51

Atopic eczema and histamine-induced sensations. Koppert W, et al. **Dermatology** 1996;192(3):227–32

Intracarotid histamine administration results in dose-dependent vasogenic brain oedema formation in new-born pigs. Németh L, et al. **Inflamm Res** 1997 Mar; 46 Suppl 1:S45–6

Application of flow cytometry to the analysis of the immunosuppressive effect of histamine dilutions on human basophil activation: effect of cimetidine. Sainte-Laudy J, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S27–8

Administration of H1 and H2 antagonists for chemoprophylaxis: a double-blind, placebo-controlled study in healthy volunteers. Doenicke A, et al. **J Clin Pharmacol** 1997 Feb;37(2):140–6

Serum beta-endorphin increase after intravenous histamine treatment of chronic daily headache. Anselmi B, et al. **Recenti Prog Med** 1997 Jul–Aug;88(7–8):321–4

Potentiation by apamin of histamine-stimulated catecholamine biosynthesis and tyrosine hydroxylase phosphorylation in cultured bovine adrenal chromaffin cells. Kitamura K, et al. **Tokushima J Exp Med** 1996 Jun; 43(1–2):17–23

ADVERSE EFFECTS

Ultrastructural changes in the duodenal mucosa induced by ingested histamine in patients with chronic urticaria. Kanny G, et al. **Allergy** 1996 Dec;51(12):935–9

Voice reactions to histamine inhalation in asthma. Leinonen L, et al. **Allergy** 1997 Jan;52(1):27–31

Synergistic effect of nitric oxide and vasoactive intestinal peptide on bronchoprotection against histamine in anesthetized guinea pigs. Kanazawa H, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):747–50

Tachyphylaxis to histamine-induced wheal suppression by topical 0.05% clobetasol propionate in normal versus croton oil-induced dermatitic skin. Singh S, et al. **Dermatology** 1996;193(2):121–3

Reduction in skin reactions to histamine after a hypnotic procedure. Laidlaw TM, et al. **Psychosom Med** 1996 May–Jun;58(3):242–8

[Pseudo-allergies are due to histamine intolerance] Götz M. **Wien Med Wochenschr** 1996;146(15):426–30 (27 ref.) (Eng. Abstr.) **(Ger)**

AGONISTS see HISTAMINE AGONISTS

ANALOGS & DERIVATIVES

Validated capillary electrophoretic method for the quantitative analysis of histamine acid phosphate and/or benzalkonium chloride. Altria KD, et al. **J Chromatogr B Biomed Appl** 1996 Nov 8;686(1):111–7

Some histamine-related compounds interacting with the benzylamine-oxidizing activity of rat white adipocytes. Raimondi L, et al. **J Pharm Pharmacol** 1997 May; 49(5):542–50

ANALYSIS

Ultrastructural localization of histamine in human basophils and mast cells; changes associated with anaphylactic degranulation and recovery demonstrated with a diamine oxidase-gold probe. Dvorak AM. **Allergy** 1997;52(34 Suppl):14–24 (30 ref.)

Quantitative measurement of extracellular histamine concentrations in intact human skin in vivo by the microdialysis technique: methodological aspects. Petersen LJ. **Allergy** 1997 May;52(5):547–55

Microplate assay for measurement of histamine release from mast cells. Price JA 3rd. **Biotechniques** 1997 May; 22(5):958–62

Amines and peptides in the brain of the American lobster: immunocytochemical localization patterns and implications for brain function. Langworthy K, et al. **Cell Tissue Res** 1997 Apr;288(1):191–206

Histamine content in colorectal cancer. Are there sufficient levels of histamine to affect lymphocyte function? Reynolds JL, et al. **Eur J Surg Oncol** 1997 Jun;23(3):224–7

Histamine containing food: establishment of a German Food Intolerance Databank (NFID). Diel E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S87–8

Histamine in plasma and bronchoalveolar lavage fluid during cardiac surgery: comparison of a heparin-coated and a non-coated circuit. Lin AH, et al. **Inflamm Res** 1997 Mar;

46 Suppl 1:S75–6
Histamine and tryptase in bronchoalveolar lavage fluid samples from asthmatic children. Turner G, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S69–70
Studies into the mechanisms of dermal inflammation using cutaneous microdialysis. Church MK, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):131–3
Ultrastructural detection of histamine in human mast cells developing from cord blood cells cultured with human or murine recombinant c-kit ligands. Dvorak AM, et al. **Int Arch Allergy Immunol** 1996 Nov;111(3):238–44
Correlation between bronchoalveolar lavage (BAL) fluid cell lysate histamine content and BAL fluid eosinophil count in atopic and nonatopic asthmatics. Louis R, et al. **Int Arch Allergy Immunol** 1997 Mar;112(3):309–12
GM-CSF downregulates expression of tryptase, Fc epsilon RI and histamine in HMC-1 mast cells. Welker P, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):284–6
Gas chromatographic method for putrescine and cadaverine in canned tuna and mahimahi and fluorometric method for histamine (minor modification of AOAC Official Method 977.13): collaborative study. Rogers PL, et al. **J AOAC Int** 1997 May–Jun;80(3):591–602
Widespread distribution of histamine in the nervous system of a trematode flatworm. Eriksson KS, et al. **J Comp Neurol** 1996 Sep 16;373(2):220–7
Histamine-immunoreactive neurons and their innervation of visual regions in the cortex, tectum, and thalamus in the primate Macaca mulatta. Manning KA, et al. **J Comp Neurol** 1996 Sep 16;373(2):271–82
Markers of mast cell degranulation. Hogan AD, et al. **Methods** 1997 Sep;13(1):43–52
Distribution of histaminergic axonal fibres in the vestibular nuclei of the cat. Tighilet B, et al. **Neuroreport** 1996 Mar 22;7(4):873–8
[Digestive amines of bacterial origin and behavior disorders. Apropos of a case] Gabastou JM, et al. **Pathol Biol (Paris)** 1996 Apr;44(4):275–81 (Eng. Abstr.) **(Fre)**
[The histamine and serotonin content in the kidneys of patients with hemorrhagic fever with renal syndrome] Sidel'nikov IuN, et al. **Urol Nefrol (Mosk)** 1996 Jul–Aug; (4):19–21 (Eng. Abstr.) **(Rus)**

ANTAGONISTS & INHIBITORS see HISTAMINE ANTAGONISTS

BIOSYNTHESIS

Effect of alpha-fluoromethylhistidine-evoked histamine depletion on ultrastructure of endocrine cells in acid-producing mucosa of stomach in mouse, rat and hamster. Andersson K, et al. **Cell Tissue Res** 1996 Dec; 286(3):375–84
Pharmacological analysis of the inflammatory exudate-induced histamine production in bone marrow cells. Hirasawa N, et al. **Immunopharmacology** 1997 Apr; 36(1):87–94
Modulation of endotoxin-induced histamine synthesis by cytokines in mouse bone marrow-derived macrophages. Takamatsu S, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S91–2
Biphasic action of the histamine precursor L-histidine in the rat kindling model of epilepsy. Wada Y, et al. **Neurosci Lett** 1996 Feb 9;204(3):205–8

BLOOD

A patient with basophilic-eosinophilic myeloproliferative disorder showing monosomy 7 and hyperhistaminemia. Takimoto Y, et al. **Acta Haematol** 1997;98(1):37–41
Plasma histamine in patients with tropical disorders and acute asthma who exhibit eosinophilia. Bruce C, et al. **Ann Clin Biochem** 1996 May;33 (Pt 3):249–52
Pharmacokinetic and pharmacodynamic assessment of bioavailability for two prodrugs of methylprednisolone. Daley-Yates PT, et al. **Br J Clin Pharmacol** 1997 Jun; 43(6):593–601
Leucocyte and platelet derived bioactive substances in stored standard platelet concentrates [letter] Edvardsen L, et al. **Eur J Haematol** 1996 Aug;57(2):185–7
Effect of administration of malathion for 14 days on macrophage function and mast cell degranulation. Rodgers K, et al. **Fundam Appl Toxicol** 1997 May;37(1):95–9
Effects of tele-methylhistamine and metoprine on plasma levels of histamine and on its elimination from cat plasma. Irman-Florjanc T. **Inflamm Res** 1997 Mar;46 Suppl 1:S89–90
Measurement of plasma histamine by high performance liquid chromatography and radioimmunoassay. Withington DE, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S77–8
Vitamin C depletion is associated with alterations in blood histamine and plasma free carnitine in adults. Johnston CS, et al. **J Am Coll Nutr** 1996 Dec;15(6):586–91
Blood levels of histamine, IL-1 beta, and TNF-alpha in patients with mild to moderate Alzheimer disease. Alvarez XA, et al. **Mol Chem Neuropathol** 1996 Oct–Dec; 29(2–3):237–52
Effects of an anaesthetic on plasma levels of histamine and tele-methylhistamine in the cat. Irman-Florjanc T. **Pflugers Arch** 1996;431(6 Suppl 2):R221–2
The in vivo effects of interleukin-3 on histamine levels in non-Hodgkin's lymphoma patients. Hovgaard DJ, et al. **Pharmacol Toxicol** 1997 Jun;80(6):290–4
Transient increase of blood histamine level induced by pentagastrin. Continuous monitoring by in vivo microdialysis. Watanabe H, et al. **Scand J Gastroenterol** 1996 Dec;31(12):1144–50
[Importance of plasma (histamine and tryptase) and urinary (methylhistamine) in peri-anesthetic anaphylactic and/or anaphylactoid reactions] Cottineau C, et al. **Allerg Immunol (Paris)** 1996 Oct;28(8):270, 273–6 (Eng. Abstr.) **(Fre)**
[The influence of heparin on histamine level in plasma during the early reaction phase of asthma] Antczak-Marczak M, et al. **Pol Arch Med Wewn** 1997 Jan;97(1):7–14 (Eng. Abstr.) **(Pol)**
[The level of free histamine and free serotonin in the blood plasma in polycythemia vera] Vydyborets SV, et al. **Lik Sprava** 1995 Sep–Dec;(9–12):70–2 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Histamine-modified beta-cyclodextrins for the enantiomeric separation of dansyl-amino acids in capillary electrophoresis. Galaverna G, et al. **Electrophoresis** 1997 Jun;18(6):905–11
The histaminase activity of rat white adipocytes. Raimondi L, et al. **Inflamm Res** 1997 Apr;46(4):125–31
The roles of residues Tyr150, Glu272, and His314 in class C beta-lactamases. Dubus A, et al. **Proteins** 1996 Aug; 25(4):473–85

DIAGNOSTIC USE

Evaluation of nasal passage patency after antigen and histamine challenge in guinea pigs by acoustic rhinometry. Nakamoto S, et al. **Am J Rhinol** 1997 Jan–Feb;11(1):85–9
Histamine inhalation is a specific but insensitive laboratory test for migraine. Lassen LH, et al. **Cephalalgia** 1996 Dec; 16(8):550–3
Effect of experimental rhinovirus 16 colds on airway hyperresponsiveness to histamine and interleukin-8 in nasal lavage in asthmatic subjects in vivo [see comments] Grünberg K, et al. **Clin Exp Allergy** 1997 Jan;27(1):36–45 . Comment in: Clin Exp Allergy 1997 Jan;27(1):7–9.
Bronchial responsiveness to inhaled histamine in canine pulmonary congestion. Nishimura Y, et al. **Jpn Circ J** 1997 Sep;61(9):787–94
Effects of GABA-B agonist baclofen on bronchial hyperreactivity to inhaled histamine in subjects with cervical spinal cord injury. Grimm DR, et al. **Lung** 1997; 175(5):333–41
Assessment of chest wall kinematics by using optical reflectance movement analysis (ORMA) system in asthma. Scano G, et al. **Monaldi Arch Chest Dis** 1996 Dec; 51(6):479–82
Adenosine monophosphate and histamine induced bronchoconstriction: repeatability and protection by terbutaline. Egbagbe E, et al. **Thorax** 1997 Mar; 52(3):239–43
Association of anxiety with perception of histamine induced bronchoconstriction in patients with asthma. Spinhoven P, et al. **Thorax** 1997 Feb;52(2):149–52

GENETICS

Genetic depletion of histamine from the nervous system of Drosophila eliminates specific visual and mechanosensory behavior. Melzig J, et al. **J Comp Physiol [A]** 1996 Dec; 179(6):763–73

HISTORY

The European Histamine Research Society: a silver anniversary [editorial] Mannaioni PF. **Inflamm Res** 1997 May;46(5):155–6

IMMUNOLOGY

Estimation of skin prick test reactions with a scanning program. Pijnenborg H, et al. **Allergy** 1996 Nov; 51(11):782–8
A new fixation procedure for study of the histaminergic neurons by immunoelectron microscopy using the direct antiserum against histamine. Wang QP, et al. **Biotech Histochem** 1996 Nov;71(6):311–6
Histamine-potentiating activity in rat anaphylactic pleural fluid: role of serotonin. Lima MC, et al. **Braz J Med Biol Res** 1996 Aug;29(8):1049–56
Histamine immunoreactivity changes in vestibular-lesioned and histaminergic-treated cats. Tighilet B, et al. **Eur J Pharmacol** 1997 Jul 2;330(1):65–77
Monoclonal antibodies against glutaraldehyde-conjugated histamine: application to immunocytochemistry. Fujiwara K, et al. **Histochem Cell Biol** 1997 Jan;107(1):39–45
Specific sensitization to Dermatophagoides pteronyssinus and cutaneous reactivity to histamine in Brazilian children. Halász MR, et al. **J Investig Allergol Clin Immunol** 1997 Mar–Apr;7(2):98–102

METABOLISM

The presence of histamine and tele-methylhistamine in the pineal gland of chick. Zawilska JB, et al. **Acta Neurobiol Exp (Warsz)** 1996;56(3):691–5
Helicobacter pylori and duodenal ulcer: evidence for a histamine pathways-involving link. Bechi P, et al. **Am J Gastroenterol** 1996 Nov;91(11):2338–43
Increased histamine and 5-HT in portal vein plasma and mesenteric lymph during brief ischemia and reperfusion. Fu LW, et al. **Am J Physiol** 1997 Sep;273(3 Pt 2):H1135–41
Carbonic anhydrase activators: X-ray crystallographic and spectroscopic investigations for the interaction of isozymes I and II with histamine. Briganti F, et al. **Biochemistry** 1997 Aug 26;36(34):10384–92
Adriamycin-induced histamine release from heart tissue in vitro. Decorti G, et al. **Cancer Chemother Pharmacol** 1997; 40(4):363–6
Histamine-like immunoreactivity in the visual system and brain of an orthopteran and a hymenopteran insect. Bornhauser BC, et al. **Cell Tissue Res** 1997 Jan; 287(1):211–21
The distribution of histamine-immunoreactive neurons in the ventral nerve cord of the cricket, Gryllus bimaculatus. Hörner M, et al. **Cell Tissue Res** 1996 Dec;286(3):393–405
Release of histamine from dural mast cells by substance P and calcitonin gene-related peptide [see comments] Ottosson A, et al. **Cephalalgia** 1997 May;17(3):166–74. Comment in: Cephalalgia 1997 May;17(3):143–4.
Effects of systemic corticosteroids on cutaneous histamine secretion and histamine-releasing factor in patients with chronic idiopathic urticaria. Paradis L, et al. **Clin Exp Allergy** 1996 Jul;26(7):815–20
Measurement of interleukin-4 and histamine in superficial cells of conjunctiva in patients with allergic conjunctivitis. Fujishima H, et al. **Curr Eye Res** 1996 Feb;15(2):209–13
Tear histamine and histaminase during the early (EPR) and late (LPR) phases of the allergic reaction and the effects of lodoxamide. Leonardi AA, et al. **Eur J Ophthalmol** 1996 Apr–Jun;6(2):106–12
Imidazole fungicides provoke histamine release from mast cells and induce airway contraction. Gietzen K, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):529–31
Binding of histamine H3-receptor antagonists to hematopoietic progenitor cells. Evidence for a histamine transporter unrelated to histamine H3 receptors. Corbel S, et al. **FEBS Lett** 1997 Mar 10;404(2–3):289–93
Contribution of mast cell mediators to alterations in macrophage function after malathion administration. Rodgers K, et al. **Fundam Appl Toxicol** 1996 Sep; 33(1):100–8
Mast cell-derived histamine and tumour necrosis factor: differences between SJL/J and BALB/c inbred strains of mice. Bebo BF Jr, et al. **Immunol Cell Biol** 1996 Jun; 74(3):225–30
Effect of compound 48/80 on mast cells and histamine levels in rat brain and on corticosterone secretion. Bugajski AJ, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S47–8
Fluoromethylhistidine inhibits tumor growth without producing depletion of endogenous histamine. Cricco G, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S59–60
Histidine decarboxylase and intracellular histamine in melanoma cells and in a T cell line. Falus A, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S51–2
Histamine concentration and metabolism in mouse mammary gland during the estrous cycle. Kierska D, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S63–4
Histamine and fibrinolytic activity in Helicobacter pylori positive and negative dyspeptic patients. Man WK, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S103–4
Histamine and tyramine production by bacteria from meat products. Masson F, et al. **Int J Food Microbiol** 1996 Sep; 32(1–2):199–207
Dietary induced anorexia: a review of involvement of the histaminergic system. Mercer LP, et al. **J Am Coll Nutr** 1996 Jun;15(3):223–30 (78 ref.)
Effect of cocaine on the histaminergic neuron system in the rat brain. Ito C, et al. **J Neurochem** 1997 Aug;69(2):875–8
Lack of a precursor-product relationship between histamine and its metabolites in brain after histidine loading. Prell GD, et al. **J Neurochem** 1996 Nov;67(5):1938–44
Inhibitors of histamine methylation in brain promote formation of imidazoleacetic acid, which interacts with GABA receptors. Prell GD, et al. **J Neurochem** 1997 Jan; 68(1):142–51
Disposition of histamine, its metabolites, and pros-methylimidazoleacetic acid in brain regions of rats chronically infused with alpha-fluoromethylhistidine. Prell GD, et al. **J Neurochem** 1996 May;66(5):2153–9
Effects of fatty acids on accumulation and secretion of histamine in RBL-2H3 cells and leukotriene release from peritoneal exudate cells isolated from Wistar rats. Yamada K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Aug; 42(4):301–11
Involvement of thromboxane A2 and histamine in experimental allergic rhinitis of guinea pigs. Yamasaki M, et al. **J Pharmacol Exp Ther** 1997 Mar;280(3):1471–9
Effects of S-9977-2 on histamine levels in rats. Fernández-Novoa L, et al. **Methods Find Exp Clin Pharmacol** 1996 Apr;18(3):197–203
Interactions of histaminergic and serotonergic neurons in the hypothalamic regulation of prolactin and ACTH secretion. Jørgensen H, et al. **Neuroendocrinology** 1996 Nov; 64(5):329–36
Similar deficits of central histaminergic system in patients with Down syndrome and Alzheimer disease. Schneider C, et al. **Neurosci Lett** 1997 Feb 7;222(3):183–6
Excitotoxic lesions of histaminergic neurons by excitatory amino acid agonists in the rat brain. Yanai K, et al.

Neurosci Lett 1997 Sep 5;232(3):159–62

Hypothalamic neuronal histamine: implications of its homeostatic control of energy metabolism. Sakata T, et al. **Nutrition** 1997 May;13(5):403–11 (65 ref.)

The opioid peptide DAMME modulates histamine's content in gastric mucosa of the rat. Speroni E, et al. **Peptides** 1996; 17(6):957–64

Histamine release from the hypothalamus induced by gravity change in rats and space motion sickness. Uno A, et al. **Physiol Behav** 1997 Jun;61(6):883–7

Depletion of enterochromaffin-like cell histamine increases histidine decarboxylase and chromogranin A mRNA levels in rat stomach by a gastrin-independent mechanism. Andersson K, et al. **Scand J Gastroenterol** 1996 Oct; 31(10):959–65

[Histamine and serotonin contents in human tissues] Sidel'nikov IuN, et al. **Klin Lab Diagn** 1996 May–Jun; (3):19–21 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

Reserpine- and tetrabenazine-sensitive transport of (3)H-histamine by the neuronal isoform of the vesicular monoamine transporter. Erickson JD, et al. **J Mol Neurosci** 1995;6(4):277–87

Mercury-stimulated histamine uptake and binding in cultured astroglial and cerebral endothelial cells. Huszti Z, et al. **J Neurosci Res** 1997 Apr 1;48(1):71–81

PHARMACOLOGY

Effect of histamine on intracellular Ca2+ concentration in guinea pig isolated vestibular hair cells. Tomoda K, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;528:37–40

Effects of bradykinin, histamine and serotonin on pulmonary vascular resistance and permeability. Breil I, et al. **Acta Physiol Scand** 1997 Mar;159(3):189–98

Effects of histamine on gizzard erosions and on the activity of selected enzymes in chickens. Džaja P, et al. **Acta Vet Hung** 1995;43(4):431–41

Increased allergen-specific Th2 responses in vitro in atopic subjects receiving subclinical allergen challenge. Gabrielsson S, et al. **Allergy** 1997 Aug;52(8):860–5

Highlights in cardiovascular effects of histamine and H1-receptor antagonists. Genovese A, et al. **Allergy** 1997; 52(34 Suppl):67–78 (175 ref.)

Airway responsiveness in asthma: bronchial challenge with histamine and 4.5% sodium chloride before and after budesonide. du Toit JI, et al. **Allergy Asthma Proc** 1997 Jan–Feb;18(1):7–14

Histamine-sensitive intrinsic cardiac and intrathoracic extracardiac neurons influence cardiodynamics. Armour JA. **Am J Physiol** 1996 Apr;270(4 Pt 2):R906–13

NO release and the opening of K+ATP channels mediate vasodilator responses to histamine in the cat. Champion HC, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H928–37

Entrained ion transport systems generate the membrane component of chaotic agonist-induced vasomotion. Edwards DH, et al. **Am J Physiol** 1997 Aug;273(2 Pt 2):H909–20

Pharmacological activation changes stiffness of cultured human airway smooth muscle cells. Hubmayr RD, et al. **Am J Physiol** 1996 Nov;271(5 Pt 1):C1660–8

Membrane currents evoked by histamine in rabbit basilar artery. Kamouchi M, et al. **Am J Physiol** 1997 Feb;272(2 Pt 2):H638–47

Endogenous nitric oxide and allergic bronchial hyperresponsiveness in guinea pigs. Mehta S, et al. **Am J Physiol** 1997 Sep;273(3 Pt 1):L656–62

Characterization of the effects of histamine in porcine tracheobronchial lymph vessels. Reeder LB, et al. **Am J Physiol** 1996 Dec;271(6 Pt 2):H2501–7

Histamine activates phospholipase C in human airway epithelial cells via a phorbol ester-sensitive pathway. Rugolo M, et al. **Am J Physiol** 1996 Oct;271(4 Pt 1):L665–71

Reciprocal inhibitory paracrine pathways link histamine and somatostatin secretion in the fundus of the stomach. Vuyyuru L, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G106–11

Inability of histamine to regulate TNF-alpha production by human alveolar macrophages. Rowe J, et al. **Am J Respir Cell Mol Biol** 1997 Aug;17(2):218–26

Interaction between the two signal transduction systems of the histamine H2 receptor: desensitizing and sensitizing effects of histamine stimulation on histamine-dependent cAMP production in Chinese hamster ovary cells. Fukushima Y, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):27–32

Histamine reduces ZO-1 tight-junction protein expression in cultured retinal microvascular endothelial cells. Gardner TW, et al. **Biochem J** 1996 Dec 15;320 (Pt 3):717–21

Dissociation between beta-adrenoceptor-mediated cyclic AMP accumulation and inhibition of histamine-stimulated phosphoinositide metabolism in airways smooth muscle. Chilvers ER, et al. **Biochem Pharmacol** 1997 May 15; 53(10):1565–8

Histamine H1 receptor-induced Ca2+ mobilization and prostaglandin E2 release in human gingival fibroblasts. Possible role of receptor-operated Ca2+ influx. Niisato N, et al. **Biochem Pharmacol** 1996 Oct 11;52(7):1015–23

Histamine-stimulated expression of insulin-like growth factors in human glioma cells. Van der Ven LT, et al. **Br J Cancer** 1997;75(8):1091–7

Effect of intravenous magnesium sulphate on airway calibre and airway reactivity to histamine in asthmatic subjects. Hill JM, et al. **Br J Clin Pharmacol** 1996 Nov;42(5):629–31

Attenuation of human nasal airway responses to bradykinin and histamine by inhibitors of nitric oxide synthase. Dear JW, et al. **Br J Pharmacol** 1996 Jul;118(5):1177–82

The effect of R 15.7/HO, an anti-CD18 antibody, on the late airway response and airway hyperresponsiveness in an allergic rabbit model. el-Hashim AZ, et al. **Br J Pharmacol** 1997 Jun;121(4):671–8

Pharmacological analysis of the CCKB/gastrin receptors mediating pentagastrin-stimulated gastric acid secretion in the isolated stomach of the immature rat. Hills DM, et al. **Br J Pharmacol** 1996 Dec;119(7):1401–10

Role of endothelium and nitric oxide in histamine-induced responses in human cranial arteries and detection of mRNA encoding H1- and H2-receptors by RT-PCR. Jansen-Olesen I, et al. **Br J Pharmacol** 1997 May; 121(1):41–8

Effects of hypomagnesia on histamine H1 receptor-mediated facilitation of NMDA responses. Payne GW, et al. **Br J Pharmacol** 1997 May;121(2):199–204

Regulation of the human histamine H1 receptor stably expressed in Chinese hamster ovary cells. Smit MJ, et al. **Br J Pharmacol** 1996 Mar;117(6):1071–80

Effect of membrane hyperpolarization induced by a K+ channel opener on histamine-induced Ca2+ mobilization in rabbit arterial smooth muscle. Watanabe Y, et al. **Br J Pharmacol** 1996 Mar;117(6):1302–8

Role of nitric oxide in histamine-induced increases in permeability of the blood-brain barrier. Mayhan WG. **Brain Res** 1996 Dec 16;743(1–2):70–6

Involvement of protein kinase C in homologous desensitization of histamine-evoked secretory responses in rat chromaffin cells. Warashina A. **Brain Res** 1997 Jul 11; 762(1–2):40–6

Droperidol inhibits tracheal contraction induced by serotonin, histamine or carbachol in guinea pigs. Sato T, et al. **Can J Anaesth** 1996 Feb;43(2):172–8

Time- and concentration-dependence of the growth-promoting activity of insulin and histamine in Tetrahymena. Application of the MTT-method for the determination of cell proliferation in a protozoan model. Hegyesi H, et al. **Cell Biol Int** 1997 May;21(5):289–93

The role of reactive oxygen metabolites in the transcriptional regulation of IFN-gamma gene expression by histamine in NK cells following IL-2 stimulation. Houze TA, et al. **Cell Biol Int** 1996 Sep;20(9):589–98

Histamine enhanced the TNF-alpha-induced expression of E-selectin and ICAM-1 on vascular endothelial cells. Miki I, et al. **Cell Immunol** 1996 Aug 1;171(2):285–8

Nitric oxide synthase inhibition in the histamine headache model. Schmetterer L, et al. **Cephalalgia** 1997 May; 17(3):175–82

Depressed endothelium-dependent relaxation responses to acetylcholine and histamine in isolated human epigastric arteries from pre-eclamptic women. Oguogho A, et al. **Clin Auton Res** 1996 Jun;6(3):153–5

Different modulation by histamine of IL-4 and interferon-gamma (IFN-gamma) release according to the phenotype of human Th0, Th1 and Th2 clones. Lagier B, et al. **Clin Exp Immunol** 1997 Jun;108(3):545–51

Histamine-stimulated phospholipase C signalling in the adrenal chromaffin cell: effects on inositol phospholipid metabolism and tyrosine hydroxylase phosphorylation. Bunn SJ, et al. **Clin Exp Pharmacol Physiol** 1997 Aug; 24(8):624–31

Novel effects of histamine on lipoprotein metabolism: suppression of hepatic low density lipoprotein receptor expression and reduction of plasma high density lipoprotein cholesterol in the rat. Liao W, et al. **Endocrinology** 1997 May;138(5):1863–70

Atracurium induced vasodilatation is not mediated by histamine in the isolated femoral artery of the rabbit. de Jong DM, et al. **Eur J Anaesthesiol** 1996 Jul;13(4):333–9

Microinjection technique for pharmacological evaluation of microvascular permeability in human skin. Herrig I, et al. **Eur J Clin Pharmacol** 1996;49(5):365–9

Effects of anaesthetic agents on basal and histamine-stimulated acid secretion in the fistula rat. Bastaki SM, et al. **Eur J Gastroenterol Hepatol** 1995 Dec; 7(12):1199–202

Histamine-induced contraction of human isolated bronchus is enhanced by endogenous prostaglandin F2 alpha and activation of TP receptors. Knight DA, et al. **Eur J Pharmacol** 1997 Jan 29;319(2–3):261–7

Histamine receptors in isolated bovine oviductal arteries. Martínez AC, et al. **Eur J Pharmacol** 1997 May 20; 326(2–3):163–73

Histamine modulation of glutamate release from hippocampal synaptosomes. Rodriguez FJ, et al. **Eur J Pharmacol** 1997 Apr 4;323(2–3):283–6

Neomycin inhibits histamine and thapsigargin mediated Ca2+ entry in DDT1 MF-2 cells independent of phospholipase C activation. Sipma H, et al. **Eur J Pharmacol** 1996 Jun 3;305(1–3):207–12

Histamine inhibits ATP-induced [Ca2+]i rise through the activation of protein kinase A in HL-60 cells. Song SK, et al. **Eur J Pharmacol** 1997 Mar 19;322(2–3):265–73

Histamine H1 receptor activation stimulates [3H]GABA release from human astrocytoma U373 MG cells. Soria-Jasso LE, et al. **Eur J Pharmacol** 1996 Dec 27; 318(1):185–92

Stimulation of formation of adenosine 3',5'-phosphate by histamine in myenteric ganglia isolated from guinea-pig small intestine. Xia Y, et al. **Eur J Pharmacol** 1996 Nov 28;316(1):81–5

Mast cell tryptase potentiates histamine-induced contraction in human sensitized bronchus. Johnson PR, et al. **Eur Respir J** 1997 Jan;10(1):38–43

Breathing pattern during bronchial challenge in humans. Meessen NE, et al. **Eur Respir J** 1997 May;10(5):1059–63

Tracheal epithelial damage alters the effects of luminal histamine on blood flow and tracer flux in anaesthetized sheep. Wells UM, et al. **Eur Respir J** 1996 Jan;9(1):78–85

Histochemical and biochemical investigations on the guinea pig parotid glands after application of exogenous histamine. Andrysiak PK, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:97–8

Short-term exposure to diesel exhaust induces nasal mucosal hyperresponsiveness to histamine in guinea pigs. Kobayashi T, et al. **Fundam Appl Toxicol** 1997 Aug;38(2):166–72

Comparison of responses to histamine by constant-flow and constant-pressure perfusion methods in the rabbit isolated kidney preparation. Bökesoy TA, et al. **Gen Pharmacol** 1996 Sep;27(6):1047–51

Histamine does not potentiate cyclic AMP-mediated amylase secretion in the guinea-pig pancreatic acinar cells. Camello C, et al. **Gen Pharmacol** 1997 Aug;29(2):211–5

Regulation of [Ca2+]i rise activated by doxepin-sensitive H1-histamine receptors in Jurkat cells, cloned human T lymphocytes. Kitamura Y, et al. **Gen Pharmacol** 1996 Mar; 27(2):285–91

Endothelium-independent contractile and relaxant responses to histamine in the rabbit aorta and common carotid, mesenteric, renal, and femoral arteries. Krstić MK, et al. **Gen Pharmacol** 1996 Apr;27(3):529–33

Effects of hydralazine on responses to histamine and caffeine in ileal longitudinal muscle and taenia coli of the guinea pig. Nasu T, et al. **Gen Pharmacol** 1997 Mar;28(3):421–5

Responsiveness of smooth muscle in the lower urinary tract of rabbits to various agonists. Sudoh K, et al. **Gen Pharmacol** 1997 Apr;28(4):629–31

Effects of sympathectomy on endothelin-1 and histamine responses of rabbit carotid artery. Utkan T, et al. **Gen Pharmacol** 1997 Aug;29(2):197–9

Interaction of calcium channel blockers (CCBs) with histamine and 5-hydroxytryptamine in aorta from normal and diseased rats. Bhugra P, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):120–6

Histamine up-regulates the generation of nitric oxide, and nitric oxide down-regulates the release of histamine in cardiovascular preparations. Mannaioni PF, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S97–8

Preliminary studies on the desensitisation of the blood pressure response to central histamine. Młynarska MS. **Inflamm Res** 1997 Mar;46 Suppl 1:S49–50

Effects of histamine on intracellular calcium transients recorded with Fura-2 in renal pacemaker cells in guinea pig. Moss J, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S95–6

Mast cells and de novo angiogenesis: angiogenic capability of individual mast-cell mediators such as histamine, TNF, IL-8 and bFGF. Norrby K. **Inflamm Res** 1997 Mar;46 Suppl 1:S7–8

Interaction of histamine with adrenocorticotropic hormone: a local modulatory role for adrenocortical androgen synthesis? Orsó E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S57–8

Effects of the calcium ionophore A23187 on airway responsiveness to histamine and substance P in guinea pigs. Uno D, et al. **Inflamm Res** 1997 Mar;46(3):108–13

Histamine-induced cortisol secretion from bovine adrenocortical cells co-cultured with bovine adrenomedullary cells. Yoshida T, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S61–2

Interaction between histamine and nitric oxide in rat mast cells and in isolated guinea pig hearts. Mannaioni PF, et al. **Int Arch Allergy Immunol** 1997 May–Jul;113(1–3):297–9

Histamine augments VCAM-1 expression on IL-4- and TNF-alpha-stimulated human umbilical vein endothelial cells. Saito H, et al. **Int Arch Allergy Immunol** 1996 Oct; 111(2):126–32

Appraisal of the validity of histamine-induced wheal and flare to predict the clinical efficacy of antihistamines. Monroe EW, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):S798–806 (65 ref.)

Histamine H2 receptor-mediated airway goblet cell secretion and its modulation by histamine-degrading enzymes. Tamaoki J, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):233–8

Maturational changes in responses of tissue and airway resistance to histamine. Dreshaj IA, et al. **J Appl Physiol** 1996 Oct;81(4):1785–91

Effects of neonatal immunization and repeated allergen exposure on airway responsiveness in the rabbit. Minshall E, et al. **J Appl Physiol** 1996 Jun;80(6):2108–19

Acute histamine-induced flux of airway liquid: role of neuropeptides. Yager D, et al. **J Appl Physiol** 1996 Apr; 80(4):1285–95

Mechanisms of prostaglandin F2 alpha and histamine-induced contractions in human chorionic vasculature. Quist CW, et al. **J Cardiovasc Pharmacol** 1996 Sep;28(3):363–70

CV6209 inhibits airway wall thickening and airway hyperresponsiveness to histamine induced by intravenous administration of platelet-activating factor in guinea pigs. Kurosawa M, et al. **J Lipid Mediat Cell Signal** 1996 Mar; 13(2):139-49

Differential regulation of histamine- and bradykinin-stimulated phospholipase C in adrenal chromaffin cells: evidence for involvement of different protein kinase C isoforms. Sena CM, et al. **J Neurochem** 1996 Mar;66(3):1086-94

The C terminal tail of the histamine H2 receptor contains positive and negative signals important for signal transduction and receptor down-regulation. Smit MJ, et al. **J Neurochem** 1996 Nov;67(5):1791-800

Responses of rat spinal dorsal horn neurons to intracutaneous microinjection of histamine, capsaicin, and other irritants. Carstens E. **J Neurophysiol** 1997 May;77(5):2499-514

Inhibitory effects of tetrandrine on intracellular free Ca2+ increase induced by glutamate, serotonin and histamine in dissociated retina cells. Xuan B, et al. **J Ocul Pharmacol Ther** 1996 Fall;12(3):331-6

A large-conductance K+ channel that is inhibited by the cytoskeleton in the smooth muscle cell line DDT1 MF-2. Ehrhardt AG, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):663-76

Histamine induces oscillations of mitochondrial free Ca2+ concentration in single cultured rat brain astrocytes. Jou MJ, et al. **J Physiol (Lond)** 1996 Dec 1;497 (Pt 2):299-308

Differing effects of histamine and serotonin on microvascular permeability in anaesthetized rats. Michel CC, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):657-62

The ionic dependence of the histamine-induced depolarization of vasopressin neurones in the rat supraoptic nucleus. Smith BN, et al. **J Physiol (Lond)** 1996 Sep 1;495 (Pt 2):465-78

Effects of joining peptide (1-18) and histamine on dehydroepiandrosterone (DHEA) and dehydroepiandrosterone sulphate (DHEAS) production of human adrenocortical cells in vitro. Orsó E, et al. **J Steroid Biochem Mol Biol** 1996 May;58(2):207-10

Histamine mediates the muscle layer-specific responses in the isolated swine myometrium. Kitazawa T, et al. **J Vet Pharmacol Ther** 1997 Jun;20(3):187-97

Potentiation of histamine-induced catecholamine secretion by ouabain in cultured bovine adrenal chromaffin cells is dependent on calcium and sodium influx. Houchi H, et al. **Life Sci** 1997;60(23):2051-8

Hippocampus and learning: possible role of histamine receptors. Alvarez EO, et al. **Medicina (B Aires)** 1996; 56(2):155-60

In vitro effect of histamine and histamine H1 and H2 receptor antagonists on cellular proliferation of human malignant melanoma cell lines. Reynolds JL, et al. **Melanoma Res** 1996 Apr;6(2):95-9

Effects of intracerebroventricular injection of histamine and its related compounds on rectal temperature in mice. Chen Z, et al. **Methods Find Exp Clin Pharmacol** 1995 Dec; 17(10):669-75

Effects of intracerebroventricular injection of histamine on memory deficits induced by hippocampal lesions in rats. Kamei C, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):253-9

EFFECTS OF HISTAMINE AND RELATED COMPOUNDS ON THE BOVINE IRIS DILATOR. KAMEI CH. **Methods Find Exp Clin Pharmacol** 1996 May; 18(4):273-8

Synergistic interactions between neuropeptide and histamine on the capillary permeability in rat skin: evaluation by reflectance spectrophotometry. Kakizoe E, et al. **Microvasc Res** 1997 Jul;54(1):27-34

Histamine sustains fMLP-stimulated leukocyte adhesion in rat mesenteric venules in vivo. Thorlacius H, et al. **Microvasc Res** 1997 Mar;53(2):191-3

Histamine modulates the expression of c-fos through cyclic AMP production via the H2 receptor in the human promonocytic cell line U937. Shayo C, et al. **Mol Pharmacol** 1997 Jun;51(6):983-90

Pharmacological properties of cardiovascular histamine H1 receptor binding sites: characterisation with 2-phenylhistamines. Carman-Krzan M, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Apr; 355(4):431-7

Chronic beta 1-adrenoceptor blockade sensitises the H1 and H2 receptor systems in human atrium: rôle of cyclic nucleotides. Sanders L, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):661-70

Effect of histamine and the H2 antagonist cimetidine on the growth and migration of human neoplastic glia [published erratum appears in Neuropathol Appl Neurobiol 1996 Dec;22(6):559] Finn PE, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):317-24

Histamine slows the onset of desensitization of rat cortical NMDA receptors. Zwart R, et al. **Neuroreport** 1996 Sep 2;7(13):2206-10

Effects of histamine on neuropeptide release into the knee joint perfusate and cerebrospinal fluid in rats. Bileviciute I, et al. **Neurosci Lett** 1997 Apr 18;226(1):9-12

Histamine enhances synaptic transmission in hippocampal slices from hibernating and warm-acclimated Turkish hamsters. Nikmanesh FG, et al. **Neurosci Lett** 1996 May 31;210(2):119-20

Plasma extravasation and neuropeptide release in human skin as measured by intradermal microdialysis. Schmelz M, et al. **Neurosci Lett** 1997 Jul 18;230(2):117-20

Histamine H1 receptors and inositol phosphate formation in rat thalamus. Soria-Jasso LE, et al. **Neurosci Lett** 1997 Apr 4;225(2):117-20

Histamine (H1) receptor antagonist inhibits leukocyte rolling in pial vessels in the early phase of bacterial meningitis in rats. Weber JR, et al. **Neurosci Lett** 1997 Apr 18; 226(1):17-20

Differential effects of histamine on the N-methyl-D-aspartate channel in hippocampal slices and cultures. Bekkers JM, et al. **Neuroscience** 1996 Jun; 72(3):669-77

The equivalent bronchodilator effects of salbutamol formulated in chlorofluorocarbon and hydrofluoroalkane-134a metered dose inhalers on the histamine-induced pulmonary response in dogs. Nogami-Itoh M, et al. **Pharm Res** 1997 Feb;14(2):208-12

H1, H2, and H3 receptors contribute to drinking elicited by exogenous histamine and eating in rats. Kraly FS, et al. **Pharmacol Biochem Behav** 1996 Feb;53(2):347-54

Intracellular and extracellular Ca2+ regulate histamine-induced release of nitric oxide in vascular endothelial cells as shown with sensitive and selective nitric oxide electrodes. Kishi F, et al. **Pharmacol Res** 1996 Feb; 33(2):123-6

Gastric mucosal damage accompanying changes in mucin induced by histamine in rats. Ohara S, et al. **Pharmacol Toxicol** 1995 Dec;77(6):397-401

Stimulation of mucin metabolism in rat gastric mucosa by histamine. Ichikawa T, et al. **Pharmacology** 1997 Jun; 54(6):305-11

Effects of a nitric oxide donor and nitric oxide synthase inhibitors on acid secretion of isolated rabbit gastric glands. Kim H, et al. **Pharmacology** 1996 Dec;53(6):331-9

Contractile responses to histamine, serotonin, and angiotensin II are impaired by 17 beta-estradiol in human internal mammary arteries in vitro. Mügge A, et al. **Pharmacology** 1997 Mar;54(3):162-8

Histamine-and isoprenaline-evoked stimulation of cAMP formation in chick cerebral cortex. Nowak JZ, et al. **Pol J Pharmacol** 1995 Nov-Dec;47(6):541-4

Effects of substances affecting protein kinase C on histamine-evoked stimulation of cyclic AMP formation in chick cerebral cortex. Zawilska JB, et al. **Pol J Pharmacol** 1996 Nov-Dec;48(6):589-94

Histamine-evoked acetylcholine release in sensitized tracheal preparation. Barak N, et al. **Respir Physiol** 1997 May; 108(2):181-5

Sensory receptor activation by mediators of defense reflexes in guinea-pig lungs. Bergren DR. **Respir Physiol** 1997 Jun; 108(3):195-204

HMT regulates histamine-induced glycoconjugate secretion from human airways in vitro. Irokawa T, et al. **Respir Physiol** 1997 Jun;108(3):233-40

Ionic requirements in histamine-evoked potassium efflux in guinea pig pancreas. Rosado JA, et al. **Rev Esp Fisiol** 1997 Jun;53(2):231-7

Effect of allergen challenge on airway responsiveness to histamine and sodium metabisulphite in mild asthma. Evans DJ, et al. **Thorax** 1996 Dec;51(12):1185-91

Histamine induced bronchoconstriction and end tidal inspiratory activity in man. Meessen NE, et al. **Thorax** 1996 Dec;51(12):1192-8

[Laser Doppler flow signal frequency analysis in physiological and drug modified nasal flow motion] Siegert R, et al. **HNO** 1996 Sep;44(9):497-502 (Eng. Abstr.) **(Ger)**

[The effect of histamine on the adhesion of endothelial cells to eosinophils] Terada N, et al. **Nippon Jibiinkoka Gakkai Kaiho** 1996 Feb;99(2):292-8 (Eng. Abstr.) **(Jpn)**

[Mutually potentiating effect of joint action of carbacholine and histamine on secretion and the isoenzyme spectrum of pepsin from frog gastric mucosa cells] Tairov MM, et al. **Biokhimiia** 1996 Sep;61(9):1617-26 (Eng. Abstr.) **(Rus)**

[Mechanisms of histamine-induced raise in calcium levels in cardiomyocytes; relative effectiveness of histamine receptors blockers] Khankoeva AI, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):414-6 **(Rus)**

PHYSIOLOGY

Vestibular habituation--the effect of cholinergic, adrenergic and histaminergic agents on the process. Mierzwiński J, et al. **Acta Otorhinolaryngol Belg** 1997;51(1):39-42

Antiallergic properties of antihistamines. Negro-Alvarez JM, et al. **Allergol Immunopathol (Madr)** 1996 Jul-Aug; 24(4):177-83 (68 ref.)

Interleukin-1 beta-induced disruption of the retinal vascular barrier of the central nervous system is mediated through leukocyte recruitment and histamine. Bamforth SD, et al. **Am J Pathol** 1997 Jan;150(1):329-40

Histaminergic contribution to the metabolic effects of neuroglucopenia. Molina PE, et al. **Am J Physiol** 1997 Jun; 272(6 Pt 2):R1918-24

Inosine-induced vasoconstriction is mediated by histamine and thromboxane derived from mast cells. Shepherd RK, et al. **Am J Physiol** 1996 Feb;270(2 Pt 2):H560-6

The role of the brain histaminergic neuron system in methamphetamine-induced behavioral sensitization in rats. Ito C, et al. **Ann N Y Acad Sci** 1996 Oct 31;801:353-60

Development of bombesin-like and histamine-like innervation in the bullfrog (Rana catesbeiana) central nervous system. Leger JP, et al. **Brain Behav Evol** 1997; 49(2):63-77

Histaminergic neurons facilitate social memory in rats. Prast H, et al. **Brain Res** 1996 Sep 23;734(1-2):316-8

Auditory evoked potentials in young patients with Down syndrome. Event-related potentials (P3) and histaminergic system. Seidl R, et al. **Brain Res Cogn Brain Res** 1997 Jun; 5(4):301-9

Bradykinin regulates the histamine-induced Ca2+ mobilization via protein kinase C activation in human gingival fibroblasts. Niisato N, et al. **Cell Calcium** 1997 May;21(5):345-52

This histamine-like effects of Phallusia nigra extract: evidences for direct activity at H1 receptors. Costa LV, et al. **Comp Biochem Physiol C Pharmacol Toxicol Endocrinol** 1997 May;117(1):111-5

Neurohypophysial peptides. Histaminergic regulation and function in adenohypophysial secretion. Kjaer A. **Dan Med Bull** 1996 Dec;43(5):391-406 (188 ref.)

Evidence for a regulatory role for histamine in gastric enterochromaffin-like cell proliferation induced by hypergastrinemia. Modlin IM, et al. **Digestion** 1996; 57(5):310-21

SR 140333 prevents potentiation by citric acid of plasma exudation induced by histamine in airways. Biyah K, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):325-8

Histamine induced contraction of human ciliary muscle cells. Markwardt KL, et al. **Exp Eye Res** 1997 May;64(5):713-7

The contribution of histamine to the action of bradykinin in the human nasal airway. Austin CE, et al. **Immunopharmacology** 1996 Sep;34(2-3):181-9

Central serotonergic and histaminergic modulation of peripheral inflammation and nociception in rats. Dumka VK, et al. **Indian J Physiol Pharmacol** 1996 Apr;40(2):163-6

Olfactory social memory in rats is facilitated by histamine. Argyriou A, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S39-40

Platelets and inflammation: role of platelet-derived growth factor, adhesion molecules and histamine. Mannaioni PF, et al. **Inflamm Res** 1997 Jan;46(1):4-18 (119 ref.)

Thermoregulation modulated by hypothalamic histamine in rats. Sakata T, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S35-6

The physiological role of histamine in the exocrine pancreas. Singh J, et al. **Inflamm Res** 1997 May;46(5):159-65 (95 ref.)

Genetic depletion of histamine from the nervous system of Drosophila eliminates specific visual and mechanosensory behavior. Melzig J, et al. **J Comp Physiol [A]** 1996 Dec; 179(6):763-73

Histaminergic modulation of neocortical spindling and slow-wave activity in freely behaving rats. Valjakka A, et al. **J Neural Transm** 1996;103(11):1265-80

H1-receptor-mediated excitation and facilitation of the heat response by histamine in canine visceral polymodal receptors studied in vitro. Koda H, et al. **J Neurophysiol** 1996 Sep;76(3):1396-404

Evidence for the involvement of histaminergic neurones in the regulation of the rat oxytocinergic system during pregnancy and parturition. Luckman SM, et al. **J Physiol (Lond)** 1997 Jun 15;501 (Pt 3):649-55

Calcium-dependent prepotentials contribute to spontaneous activity in rat tuberomammillary neurons. Stevens DR, et al. **J Physiol (Lond)** 1996 Jun 15;493 (Pt 3):747-54

The role of prostaglandins and the hypothalamic and hippocampal histamine in the clonidine-induced pituitary-adrenocortical response. Bugajski J, et al. **J Physiol Pharmacol** 1996 Sep;47(3):487-95

Histamine in the chick pineal gland: origin, metabolism, and effects on the pineal function. Nowak JZ, et al. **J Pineal Res** 1997 Jan;22(1):26-32

Glucose transport and energy metabolism regulated by brain histamine. Sakata T. **Jpn J Physiol** 1997;47 Suppl 1:S32-4

Mast cell activation accelerates the normal rate of angiogenesis in the chick chorioallantoic membrane. Rizzo V, et al. **Microvasc Res** 1996 Nov;52(3):245-57

Inhibitory H3 receptors on sympathetic nerves of the pithed rat: activation by endogenous histamine and operation in spontaneously hypertensive rats. Godlewski G, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Feb; 355(2):261-6

Histamine and prostaglandin interaction in the central regulation of ACTH secretion. Anthonisen M, et al. **Neuroendocrinology** 1997 Aug;66(2):68-74

Involvement of histamine in suckling-induced release of oxytocin, prolactin and adrenocorticotropin in lactating rats. Schagen FH, et al. **Neuroendocrinology** 1996 Jun; 63(6):550-8

The histaminergic, but not the serotoninergic, system mediates amylin's anorectic effect. Lutz TA, et al. **Peptides** 1996;17(8):1317-22

The role of histaminergic-noradrenergic axis in naloxone-induced withdrawal symptoms in mice. el Kadi AO, et al. **Pharmacol Biochem Behav** 1996 Sep;55(1):49-54

Role of histamine in the regulation of coronary circulation. Kostić MM, et al. **Physiol Res** 1996;45(4):297-303

Role of the central histaminergic neuronal system in the CNS toxicity of the first generation H1-antagonists. Sangalli BC. **Prog Neurobiol** 1997 Jun;52(2):145-57 (98 ref.)

HISTAMINE

Gastric acid secretion after depletion of enterochromaffin-like cell histamine. A study with alpha-fluoromethylhistidine in rats. Andersson K, et al. **Scand J Gastroenterol** 1996 Jan;31(1):24-30

Rat stomach enterochromaffin-like cells are not stimulated by pylorus ligation. A biochemical and ultrastructural study. Zhao CM, et al. **Scand J Gastroenterol** 1996 Jan; 31(1):31-7

[Waking mechanisms: multiple networks in the mesencephalic reticular formation] Jouvet M. **Arch Physiol Biochem** 1996 Oct;104(6):762-9 (26 ref.) (Eng. Abstr.) **(Fre)**

[Histamine (H1 and H2) dependent changes in neutrophil adhesion to human endothelial cells] Schäfer U, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:635-8 (Eng. Abstr.) **(Ger)**

[Possible involvement of histamine in humoral regulation of the spontaneous contractile activity of the chick embryo amnion] Khodorova AB, et al. **Dokl Akad Nauk** 1997 Jul; 355(2):282-4 **(Rus)**

POISONING

Histamine poisoning after ingestion of spoiled raw tuna in a patient taking isoniazid. Morinaga S, et al. **Intern Med** 1997 Mar;36(3):198-200

Scombroid fish poisoning: an overlooked marine food poisoning. Wu ML, et al. **Vet Hum Toxicol** 1997 Aug; 39(4):236-41

[Anaphylactoid manifestations after ingestion of tuna: think about scombroid intoxication (letter)] Maury E, et al. **Presse Med** 1997 May 17;26(16):759 **(Fre)**

SECRETION see HISTAMINE RELEASE

THERAPEUTIC USE

Histamine in cancer immunotherapy. Hellstrand K, et al. **Scand J Clin Lab Invest** 1997 May;57(3):193-202 (55 ref.)

TOXICITY

Ultrastructural investigations on the guinea pig parotid glands after application of exogenous histamine. Andrysiak PK, et al. **Folia Histochem Cytobiol** 1997;35(2):111-2

Immunocytochemical investigations of the thyroid gland of guinea pig in histamine shock. Danowski J. **Folia Histochem Cytobiol** 1997;35(2):105-6

Morphobiochemical investigations of the thyroid glands of guinea pigs after the application of exogenous histamine. Danowski J, et al. **Folia Histochem Cytobiol** 1996;34 Suppl 1:73-4

Morphobiochemical studies on alpha-amylase secretion by pancreatic follicles of guinea pigs after the application of exogenous histamine. Kmieć BL, et al. **Folia Histochem Cytobiol** 1997;35(2):113-4

An experimental model to study the cytotoxic effects induced by beta-amyloid, histamine, LPS and serum from Alzheimer patients on cultured rat endothelial cells. Maneiro E, et al. **Methods Find Exp Clin Pharmacol** 1997 Jan-Feb;19(1):5-12

HISTAMINE AGENTS

PHARMACOLOGY

Effects of histamine and 5-hydroxytryptamine on the growth rate of xenografted human bronchogenic carcinomas. Sheehan PF, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):465-71

Effect of histaminergic drugs on integumental melanophores of adult Bufo melanostictus. Peter J, et al. **Indian J Exp Biol** 1996 May;34(5):427-30

Histaminergic drugs as modulators of CNS function. Sturman G. **Pflugers Arch** 1996;431(6 Suppl 2):R223-4 (8 ref.)

Effects of histamine agents on methamphetamine-induced stereotyped behavior and behavioral sensitization in rats. Ito C, et al. **Psychopharmacology (Berl)** 1997 Apr; 130(4):362-7

THERAPEUTIC USE

A comparison of the effects of an alpha-agonist, an anti-muscarinic agent and placebo on intranasal histamine challenge in allergic rhinitis. Birchall MA, et al. **Clin Otolaryngol** 1996 Jun;21(3):212-7

HISTAMINE AGONISTS

ADMINISTRATION & DOSAGE

Mechanism for enhancement effect of lipid disperse system on percutaneous absorption [published erratum appears in J Pharm Sci 1996 May;85(5):546] Ogiso T, et al. **J Pharm Sci** 1996 Jan;85(1):57-64

ADVERSE EFFECTS

Diphenhydramine: a forgotten allergen? Heine A. **Contact Dermatitis** 1996 Nov;35(5):311-2

Nonpigmenting fixed drug eruption: a new case due to betahistine. Dereure O, et al. **Dermatology** 1996; 193(3):248-50

CHEMICAL SYNTHESIS

Structure-activity relationships of novel azomethine prodrugs of the histamine H3-receptor agonist (R)-alpha-methylhistamine: from alkylaryl to substituted diaryl derivatives. Krause M, et al. **Pharmazie** 1996 Oct; 51(10):720-6

CHEMISTRY

The agonistic binding site at the histamine H2 receptor. II. Theoretical investigations of histamine binding to receptor models of the seven alpha-helical transmembrane domain. Nederkoorn PH, et al. **J Comput Aided Mol Des** 1996 Oct; 10(5):479-89

METABOLISM

The agonistic binding site at the histamine H2 receptor. I. Theoretical investigations of histamine binding to an oligopeptide mimicking a part of the fifth transmembrane alpha-helix. Nederkoorn PH, et al. **J Comput Aided Mol Des** 1996 Oct;10(5):461-78

The agonistic binding site at the histamine H2 receptor. II. Theoretical investigations of histamine binding to receptor models of the seven alpha-helical transmembrane domain. Nederkoorn PH, et al. **J Comput Aided Mol Des** 1996 Oct; 10(5):479-89

PHARMACOKINETICS

Mechanism for enhancement effect of lipid disperse system on percutaneous absorption [published erratum appears in J Pharm Sci 1996 May;85(5):546] Ogiso T, et al. **J Pharm Sci** 1996 Jan;85(1):57-64

PHARMACOLOGY

Physiopathology of H3-receptors and pharmacology of betahistine. Van Cauwenberge PB, et al. **Acta Otolaryngol Suppl (Stockh)** 1997;526:43-6 (23 ref.)

Inhibition of cortical acetylcholine release and cognitive performance by histamine H3 receptor activation in rats. Blandina P, et al. **Br J Pharmacol** 1996 Dec;119(8):1656-64

Histological effect of (R)-alpha-methylhistamine on ethanol damage in rat gastric mucosa: influence on mucus production. Morini G, et al. **Dig Dis Sci** 1997 May; 42(5):1020-8

Sensitivity of histamine H3 receptor agonist-stimulated [35S]GTP gamma[S] binding to pertussis toxin. Clark EA, et al. **Eur J Pharmacol** 1996 Jan 25;296(2):223-5

Hemodynamic profile of activation of histamine H3 receptors by R-alpha-methylhistamine in the guinea pig. McLeod RL, et al. **Gen Pharmacol** 1996 Sep;27(6):1001-7

Effects of (R)-alpha-methylhistamine and its prodrug BP 2.94 on gastric mucosal lesions in cold/restraint stressed rats. Belcheva A, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S113-4

Effects of histamine agonists and antagonists on rat peritoneal mast cells. Stenton GR, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S15-6

Stimulatory effect of (R) alpha-methylhistamine on duodenal HCO3- secretion in anaesthetized rats. Coruzzi G, et al. **Ital J Gastroenterol** 1996 Dec;28(9):520-2

Histamine-release effectors from Angelica dahurica var. dahurica root. Kimura Y, et al. **J Nat Prod** 1997 Mar; 60(3):249-51

Bioavailability, antinociceptive and antiinflammatory properties of BP 2-94, a histamine H3 receptor agonist prodrug. Rouleau A, et al. **J Pharmacol Exp Ther** 1997 Jun;281(3):1085-94

Histamine H3 receptor-mediated depression of synaptic transmission in the dentate gyrus of the rat in vitro. Brown RE, et al. **J Physiol (Lond)** 1996 Oct 1;496 (Pt 1):175-84

Contractile and relaxant effects of dimaprit on guinea pig isolated intestinal cells. Morini G, et al. **Life Sci** 1997; 60(25):PL377-82

Cardiovascular effects of the novel histamine H2 receptor agonist amthamine: interaction with the adrenergic system. Coruzzi G, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Mar; 353(4):417-22

Effects of two histamine-N-methyltransferase inhibitors, SKF 91488 and BW 301 U, in rodent antinociception. Malmberg-Aiello P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):354-60

Modulation of noradrenaline release in rat isolated stomach by prostanoids, but not by histaminergic mechanisms. Racké K, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1995 Dec;352(6):631-9

Sleep and waking during acute histamine H3 agonist BP 2.94 or H3 antagonist carboperamide (MR 16155) administration in rats. Monti JM, et al. **Neuropsychopharmacology** 1996 Jul;15(1):31-5

Influence of histamine receptor agonists and antagonists on ultradian rhythm of EEG in the posterior hypothalamus of the rat. Prast H, et al. **Neurosci Lett** 1996 Sep 20; 216(1):21-4

Mast cell histamine in gastric secretion--a study on the isolated portion of a guinea pig stomach. Stanovnik L, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R219-20

Lack of the specific influence of histamine and histamine H1, H2 and H3 receptor ligands on the serotonin uptake and release in rat blood platelets. Pawlak D, et al. **Pol J Pharmacol** 1996 Nov-Dec;48(6):615-20

[The effects of histamine H2 receptor agonist, antagonist and antineoplastic agent on the in vitro growth of PB CFU-GM from normal individuals and HL-60 leukemia cells] He Q, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):340-5 (Eng. Abstr.) **(Chi)**

THERAPEUTIC USE

Efficacy of a selective histamine H2 receptor agonist, dimaprit, in experimental models of endotoxin shock and hepatitis in mice. Nakamura T, et al. **Eur J Pharmacol** 1997 Mar 12;322(1):83-9

Gastric mucosal injury by nonsteroidal anti-inflammatory drugs is reduced by (R)-alpha-methylhistamine and its pro-drugs in the rat. Morini G, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S101-2

Comparison of effectiveness of maneuvers and medication in the treatment of benign paroxysmal positional vertigo. Itaya T, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 May-Jun;59(3):155-8

HISTAMINE H1 AGONISTS see **HISTAMINE AGONISTS**

HISTAMINE H2 AGONISTS see **HISTAMINE AGONISTS**

HISTAMINE H3 AGONISTS see **HISTAMINE AGONISTS**

HISTAMINE ANTAGONISTS

Mast cell histamine in gastric secretion--a study on the isolated portion of a guinea pig stomach. Stanovnik L, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R219-20

ADMINISTRATION & DOSAGE

Successful treatment of pemphigus vulgaris with prednisolone and tranilast [letter] Miyamoto H, et al. **Acta Derm Venereol** 1997 Jan;77(1):87-8

ADVERSE EFFECTS

Comments to "the evolution of the serotonin-dopamine antagonist concept" [letter] Howsepian AA. **J Clin Psychopharmacol** 1996 Feb;16(1):99

ANALYSIS

Simple analysis of diphenylmethane antihistaminics and their analogues in bodily fluids by headspace solid-phase microextraction-capillary gas chromatography. Nishikawa M, et al. **J Chromatogr Sci** 1997 Jun;35(6):275-9

CHEMICAL SYNTHESIS

Novel histamine H3-receptor antagonists with benzyl ether structure or related moieties: synthesis and structure-activity relationships. Hüls A, et al. **Arch Pharm (Weinheim)** 1996 Aug-Sep;329(8-9):379-85

Novel histamine H3 receptor antagonists: synthesis and evaluation of formamidine and S-methylisothiourea derivatives. Goto T, et al. **Chem Pharm Bull (Tokyo)** 1997 Feb;45(2):305-11

A novel series of (phenoxyalkyl)imidazoles as potent H3-receptor histamine antagonists. Ganellin CR, et al. **J Med Chem** 1996 Sep 13;39(19):3806-13

H3-receptor antagonists: synthesis and structure-activity relationships of para- and meta-substituted 4(5)-phenyl-2-[[2-[4(5)-imidazolyl]ethyl]thio]imidazoles. Mor M, et al. **J Med Chem** 1997 Aug 1;40(16):2571-8

Improved stereospecific synthesis of novel 1-alkyl-3-benzoyl-4-hydroxy-4-phenylpiperidines. Jaffar M, et al. **J Pharm Pharmacol** 1996 Apr;48(4):444-7

Search for novel leads for histamine H3-receptor antagonists: amine derivatives. Stark H, et al. **Pharmazie** 1997 Jun; 52(6):419-23

CHEMISTRY

Bioactive saponins and glycosides. IV. Four methyl-migrated 16,17-seco-dammarane triterpene gylcosides from Chinese natural medicine, hoveniae semen seu fructus, the seeds and fruit of Hovenia dulcis THUNB.: absolute stereostructures and inhibitory activity on histamine release of hovenidulciosides A1, A2, B1, and B2. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Sep;44(9):1736-43

Bioactive saponins and glycosides. X. On the constituents of zizyphi spinosi semen, the seeds of Zizyphus jujuba Mill. var. spinosa Hu (1): structures and histamine release-inhibitory effect of jujubosides A1 and C and acetyljujuboside B. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1186-92

Search for novel leads for histamine H3-receptor antagonists: oxygen-containing derivatives. Stark H, et al. **Pharmazie** 1997 Jul;52(7):495-500

ISOLATION & PURIFICATION

Medicinal foodstuffs. II. On the bioactive constituents of the tuber of Sagittaria trifolia L. (Kuwai, Alismataceae): absolute stereostructures of trifoliones A, B, C, and D, sagittariosides a and b, and arabinothalictoside. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Mar;44(3):492-9

Medicinal foodstuffs. VI. 1) Histamine release inhibitors from kidney bean, the seeds of Phaseolus vulgaris L.: chemical structures of sandosaponins A and B. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 May;45(5):877-82

Histaminergic and serotonergic receptor blocking substances

from the medicinal plant Garcinia mangostana [letter] Chairungsrilerd N, et al. **Planta Med** 1996 Oct;62(5):471-2

METABOLISM

Binding of histamine H3-receptor antagonists to hematopoietic progenitor cells. Evidence for a histamine transporter unrelated to histamine H3 receptors. Corbel S, et al. **FEBS Lett** 1997 Mar 10;404(2-3):289-93

PHARMACOKINETICS

Brain penetration of the histamine H3 receptor antagonists thioperamide and clobenpropit in rat and mouse, determined with ex vivo [125I]iodophenpropit binding. Mochizuki T, et al. **Brain Res** 1996 Dec 16;743(1-2):178-83

PHARMACOLOGY

Effect of tea polyphenols on histamine release from rat basophilic leukemia (RBL-2H3) cells: the structure-inhibitory activity relationship. Matsuo N, et al. **Allergy** 1997 Jan;52(1):58-64

Synergistic effect of nitric oxide and vasoactive intestinal peptide on bronchoprotection against histamine in anesthetized guinea pigs. Kanazawa H, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):747-50

5-Lipoxygenase inhibitory and antihistamine activities of linetastine. Shizawa T, et al. **Arzneimittelforschung** 1996 Nov;46(11):1072-6

[3H]-thioperamide as a radioligand for the histamine H3 receptor in rat cerebral cortex. Alves-Rodrigues A, et al. **Br J Pharmacol** 1996 Aug;118(8):2045-52

Attenuation of human nasal airway responses to bradykinin and histamine by inhibitors of nitric oxide synthase. Dear JW, et al. **Br J Pharmacol** 1996 Jul;118(5):1177-82

Effect of the glucocorticosteroid budesonide and a novel phosphodiesterase type 4 inhibitor CDP840 on antigen-induced airway responses in neonatally immunised rabbits. Gozzard N, et al. **Br J Pharmacol** 1996 Jul; 118(5):1201-8

The histamine H1 receptor in GT1-7 neuronal cells is regulated by calcium influx and KN-62, a putative inhibitor of calcium/calmodulin protein kinase II. Zamani MR, et al. **Br J Pharmacol** 1996 Jul;118(5):1119-26

Effects of naltrexone and histamine antagonists on the antinociceptive activity of the cimetidine analog SKF92374 in rats. Li BY, et al. **Brain Res** 1997 Feb 14;748(1-2):168-74

Circadian rhythm photic phase shifts are not altered by histamine receptor antagonists. Eaton SJ, et al. **Brain Res Bull** 1996;41(4):227-9

Adrenergic differentiation potential in PC12 cells: influence of sodium butyrate and dexamethasone. Ebert SN, et al. **Brain Res Mol Brain Res** 1997 Jul;47(1-2):24-30

Bioactive saponins and glycosides. X. On the constituents of zizyphi spinosi semen, the seeds of Zizyphus jujuba Mill. var. spinosa Hu (1): structures and histamine release-inhibitory effect of jujubosides A1 and C and acetyljujuboside B. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Jul;45(7):1186-92

The inhibitory effect of TMK688, a novel anti-allergic drug having both 5-lipoxygenase inhibitory activity and anti-histamine activity, against bronchoconstriction, leukotriene production and inflammatory cell infiltration in sensitized guinea pigs. Tohda Y, et al. **Clin Exp Allergy** 1997 Jan;27(1):110-8

Calcitonin gene-related peptide antagonizes the protective effect of adrenomedullin on histamine-induced bronchoconstriction. Kanazawa H, et al. **Clin Exp Pharmacol Physiol** 1996 Jun-Jul;23(6-7):472-5

Short-term inhibitory effect of somatostatin on gastric histamine synthesis. Hollande F, et al. **Endocrinology** 1997 Mar;138(3):955-62

Cross-generalization between a cocaine cue and two antihistamines. Gauvin DV, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):281-8

Role of the 5-HT receptor in neurogenic inflammation in Fisher 344 rat airways. Germonpré PR, et al. **Eur J Pharmacol** 1997 Apr 18;324(2-3):249-55

Ligands of the histamine H3-receptor: new potent antagonists of the 2-thioimidazole type. Plazzi PV, et al. **Farmaco** 1997 May;52(5):295-302

Binding of histamine H3-receptor antagonists to hematopoietic progenitor cells. Evidence for a histamine transporter unrelated to histamine H3 receptors. Corbel S, et al. **FEBS Lett** 1997 Mar 10;404(2-3):289-93

Effect of antioxidants, anti-inflammatory drugs, and histamine antagonists on sparfloxacin-induced phototoxicity in mice. Shimoda K, et al. **Fundam Appl Toxicol** 1996 May;31(1):133-40

Different effects of cyclic AMP and butyrate on eosinophilic differentiation, apoptosis and bcl-2 expression of a human eosinophilic leukemia cell line, EoL-1. Tai G, et al. **Hematol Oncol** 1996 Dec;14(4):181-92

Effects of histamine agonists and antagonists on rat peritoneal mast cells. Stenton GR, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S15-6

Biochemical and clinical assessment of histamine blockade. Irjala J, et al. **Int J Clin Pharmacol Ther** 1996 Jun; 34(6):269-73

Role of the neuronal histaminergic system in the regulation of somatotropic function: comparison between the neonatal and the adult rat. Grilli R, et al. **J Endocrinol** 1996 Nov; 151(2):195-201

Histamine-release effectors from Angelica dahurica var. dahurica root. Kimura Y, et al. **J Nat Prod** 1997 Mar; 60(3):249-51

Hippocampal histamine receptors: possible role on the mechanisms of memory in the rat, II. Alvarez EO, et al. **J Neural Transm** 1996;103(1-2):147-56

Inhibitory effect of neuraminidase on SP-induced histamine release and TNF-alpha mRNA in rat mast cells: evidence of a receptor-independent mechanism. Cocchiara R, et al. **J Neuroimmunol** 1997 May;75(1-2):9-18

Rat protein binding and cerebral phospholipid affinity of the H3-receptor antagonist thioperamide. Plazzi PV, et al. **J Pharm Pharmacol** 1996 Jul;48(7):712-7

In-vivo microdialysis measurement of 5-hydroxytryptamine and its metabolites, 5-hydroxyindoleacetic acid and N-acetyl 5-hydroxytryptamine, in rat blood: effects of histamine-receptor antagonists. Sakurai E, et al. **J Pharm Pharmacol** 1996 Sep;48(9):911-3

Rupatadine, a new potent, orally active dual antagonist of histamine and platelet-activating factor (PAF). Merlos M, et al. **J Pharmacol Exp Ther** 1997 Jan;280(1):114-21

Effects of clobenpropit (VUF-9153), a histamine H3-receptor antagonist, on learning and memory, and on cholinergic and monoaminergic systems in mice. Miyazaki S, et al. **Life Sci** 1997;61(4):355-61

Inhibition of histamine release by nedocromil sodium reduces exercise-induced hypoxemia in master athletes. Préfaut C, et al. **Med Sci Sports Exerc** 1997 Jan;29(1):10-6

Antiasthma activity of the novel antihistamine E-4716 in guinea pigs in vivo. Cortijo J, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):465-73

Effects of thioperamide on the cholinergic system and the step-through passive avoidance test in mice. Miyazaki S, et al. **Methods Find Exp Clin Pharmacol** 1995 Dec; 17(10):653-8

Involvement of histamine in suckling-induced release of oxytocin, prolactin and adrenocorticotropin in lactating rats. Schagen FH, et al. **Neuroendocrinology** 1996 Jun; 63(6):550-8

Sleep and waking during acute histamine H3 agonist BP 2.94 or H3 antagonist carboperamide (MR 16155) administration in rats. Monti JM, et al. **Neuropsychopharmacology** 1996 Jul;15(1):31-5

Sodium butyrate decreases histamine-stimulated calcium mobilization in C6 glioma cells. Ou HC, et al. **Neuroreport** 1997 Apr 14;8(6):1375-8

Influence of histamine receptor agonists and antagonists on ultradian rhythm of EEG in the posterior hypothalamus of the rat. Prast H, et al. **Neurosci Lett** 1996 Sep 20; 216(1):21-4

Search for novel leads for histamine H3-receptor antagonists: oxygen-containing derivatives. Stark H, et al. **Pharmazie** 1997 Jul;52(7):495-500

Role of the central histaminergic neuronal system in the CNS toxicity of the first generation H1-antagonists. Sangalli BC. **Prog Neurobiol** 1997 Jun;52(2):145-57 (98 ref.)

Differential inhibition by selective phosphodiesterase inhibitors of antigen, LTC4 and histamine-induced contraction of guinea-pig isolated trachea. Planquois JM, et al. **Pulm Pharmacol** 1996 Aug;9(4):251-8

Immunological induction of flavour aversion in mice. II. Passive/adoptive transfer and pharmacological inhibition. Cara DC, et al. **Scand J Immunol** 1997 Jan;45(1):16-20

The antihistamine action of ascorbic acid. Johnston CS. **Subcell Biochem** 1996;25:189-213 (157 ref.)

THERAPEUTIC USE

Combined antagonism of leukotrienes and histamine produces predominant inhibition of allergen-induced early and late phase airway obstruction in asthmatics. Roquet A, et al. **Am J Respir Crit Care Med** 1997 Jun;155(6):1856-63

Urinary N-methylhistamine in asthmatic children receiving azelastine hydrochloride. Takei S, et al. **Ann Allergy Asthma Immunol** 1997 May;78(5):492-6

Anti-inflammatory effect of suplatast tosilate on mild asthma [letter] Sano Y, et al. **Chest** 1997 Sep;112(3):862-3

Ebastine in context. Introduction. Buendia E. **Drugs** 1996;52 Suppl 1:1-7 (24 ref.)

Enhancement of antitumour activity of cisplatin by N,N-diethyl-2-[4-(phenylmethyl)phenoxy] ethanamine. HCl in human ovarian cancer cells with intrinsic or acquired resistance to cisplatin. Kudoh K, et al. **Eur J Cancer** 1997 Jan;33(1):122-8

Biochemical and clinical assessment of histamine blockade. Irjala J, et al. **Int J Clin Pharmacol Ther** 1996 Jun; 34(6):269-73

Effects of pemirolast and tranilast on intimal thickening after arterial injury in the rat. Miyazawa N, et al. **J Cardiovasc Pharmacol** 1997 Aug;30(2):157-62

Management of allergic conjunctivitis [letter; comment] Bartlett JD. **Ophthalmology** 1997 Mar;104(3):345-6. Comment on: Ophthalmology 1996 Sep;103(9):1335-6.

[Excessive immune reactions. Effective suppression with Loratadine] **Hautarzt** 1996 Sep;47(9 Suppl):1-2 **(Ger)**

HISTAMINE H1 ANTAGONISTS

see related
ANTI-ALLERGIC AGENTS
BRONCHODILATOR AGENTS
HYPERSENSITIVITY, IMMEDIATE

Specific and novel aspects of histamine H1-receptor antagonists. Dedicated to Professor Daniele Bovet. **Allergy** 1997;52(34 Suppl):1-78

Intravenous tripelennamine abuse in schizophrenia [letter] Addington J, et al. **Can J Psychiatry** 1996 Feb;41(1):63

Clinical comparison of histamine H1-receptor antagonist drugs. Du Buske LM. **J Allergy Clin Immunol** 1996 Dec; 98(6 Pt 3):S307-18 (82 ref.)

From the Food and Drug Administration. Nightingale SL. **JAMA** 1997 Feb 5;277(5):370

Productivity costs of antihistamines in the workplace. Meltzer EO. **Occup Health Saf** 1996 Aug;65(8):46-50

ADMINISTRATION & DOSAGE

Role of azelastine nasal spray in the symptomatic treatment of seasonal allergic rhinitis. Bellussi L, et al. **Adv Otorhinolaryngol** 1997;51:88-92

'Regular' versus 'as required' use of azelastine nasal spray in the treatment of seasonal allergic rhinitis. Passàli D, et al. **Adv Otorhinolaryngol** 1997;51:81-7

Effect of systemic corticoid and antihistamine alone or in combination on elements of the response to a two dose nasal allergen challenge. Brooks CD, et al. **Am J Rhinol** 1997 Mar-Apr;11(2):117-22

Effect of topical diphenhydramine on the laryngeal chemoreflex. Boyer HC, et al. **Arch Otolaryngol Head Neck Surg** 1996 Oct;122(10):1112-6

Preparation of controlled release granules of TA-5707F using enteric polymers and ethylcellulose, and their in vivo evaluation. Yamakita H, et al. **Biol Pharm Bull** 1996 Jan; 19(1):106-13

First-line treatment of seasonal (ragweed) rhinoconjunctivitis. A randomized management trial comparing a nasal steroid spray and a nonsedating antihistamine [see comments] Juniper EF, et al. **Can Med Assoc J** 1997 Apr 15;156(8):1123-31. Comment in: Can Med Assoc J 1997 Apr 15;156(8):1141-3.

Antihistamines: topical vs oral administration. Davies RJ, et al. **Clin Exp Allergy** 1996 May;26 Suppl 3:11-7 (35 ref.)

Topical azelastine has a 12-hour duration of action as assessed by histamine challenge-induced exudation of alpha 2-macroglobulin into human nasal airways. Greiff L, et al. **Clin Exp Allergy** 1997 Apr;27(4):438-44

Local antihistamines. Trigg CJ, et al. **Clin Exp Allergy** 1996 Oct;26(10):1108-11 (35 ref.)

A multicenter clinical study of the efficacy and tolerability of azelastine nasal spray in the treatment of seasonal allergic rhinitis: a comparison with oral cetirizine. Charpin D, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):455-8

Topical oxatomide: an alternative approach for the treatment of vulvar lichen sclerosus. Origoni M, et al. **Int J Gynaecol Obstet** 1996 Dec;55(3):259-64

Seasonal rhinitis and azelastine: long- or short-term treatment? Ciprandi G, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):301-7

Azelastine nasal spray for allergic rhinitis. **Med Lett Drugs Ther** 1997 May 9;39(1000):45-7

Efficacy of lodoxamide eye drops on mast cells and eosinophils after allergen challenge in allergic conjunctivitis. Bonini S, et al. **Ophthalmology** 1997 May; 104(5):849-53

Intranasal levocabastine provides fast and effective protection from nasal allergen challenge. Bachert C, et al. **Rhinology** 1996 Sep;34(3):140-3

[An open and controlled study of effectiveness and tolerance of Livostin eyedrops] Stara J, et al. **Cesk Slov Oftalmol** 1997 Feb;53(1):46-8 (Eng. Abstr.) **(Cze)**

[Treatment of hay fever] Mygind N, et al. **Ugeskr Laeger** 1997 Sep 1;159(36):5358-61 **(Dan)**

[Antazoline/tetryzoline eyedrops in comparison with levocabastine eyedrops in acute allergic conjunctivitis] Wertheimer R, et al. **Klin Monatsbl Augenheilkd** 1997 Feb; 210(2):93-6 (Eng. Abstr.) **(Ger)**

[Efficacy of levocabastine in perennial rhinitis] Pacor ML, et al. **Clin Ter** 1996 Jun;147(6):295-8 (Eng. Abstr.) **(Ita)**

ADVERSE EFFECTS

The clinical safety of H1-receptor antagonists. An EAACI position paper. Passalacqua G, et al. **Allergy** 1996 Oct; 51(10):666-75 (119 ref.)

Sedation in allergic rhinitis is caused by the condition and not by antihistamine treatment. Spaeth J, et al. **Allergy** 1996 Dec;51(12):893-906

Treatment of allergic rhinitis: effect on occupation productivity and work force costs. Fireman P. **Allergy Asthma Proc** 1997 Mar-Apr;18(2):63-7 (10 ref.)

Treatment of allergic rhinitis: effects of allergic rhinitis and antihistamines on performance. Storms WW. **Allergy Asthma Proc** 1997 Mar-Apr;18(2):59-61

Drug interactions with the nonsedating antihistamines. Ament PW, et al. **Am Fam Physician** 1997 Jul;56(1):223-31 (24 ref.)

FDA announces plan to halt marketing of terfenadine [news] **Am J Health Syst Pharm** 1997 Feb 15;54(4):342

Pregnancy outcome following first trimester exposure to antihistamines: meta-analysis. Seto A, et al. **Am J Perinatol** 1997 Mar;14(3):119-24

Prospective controlled study of hydroxyzine and cetirizine in pregnancy. Einarson A, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):183-6

Antihistamines and pregnancy [editorial] Schatz M, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):157-9

Subfulminant liver failure and severe hepatotoxicity caused by loratadine use [published erratum appears in Ann Intern Med 1997 May 1;126(9):746] Schiano TD, et al. **Ann Intern Med** 1996 Nov 1;125(9):738–40

Sedation and performance issues in the treatment of allergic conditions [see comments] Adelsberg BR. **Arch Intern Med** 1997 Mar 10;157(5):494–500 (42 ref.). Comment in: ACP J Club 1997 Jul–Aug;127(1):10.

Comparative analysis of the cardiotoxicity proclivities of second generation antihistamines in an experimental model predictive of adverse clinical ECG effects [see comments] Hey JA, et al. **Arzneimittelforschung** 1996 Feb;46(2):153–8 . Comment in: Arzneimittelforschung 1996 Aug;46(8):832–3.

Nonsedating antihistamines in pregnancy. Mazzotta P, et al. **Can Fam Physician** 1997 Sep;43:1509–11

Toxic pustuloderma associated with clemastine therapy. Feind-Koopmans A, et al. **Clin Exp Dermatol** 1996 Jul; 21(4):293–5 (38 ref.)

Sedative effects of antihistamines: safety, performance, learning, and quality of life. Nolen TM. **Clin Ther** 1997 Jan–Feb;19(1):39–55; discussion 2–3 (63 ref.)

Terfenadine therapy: can we justify the risks? [editorial] Rangno R. **CMAJ** 1997 Jul 1;157(1):37–8

Skin reactions to hydroxyzine. Michel M, et al. **Contact Dermatitis** 1997 Mar;36(3):147–9

Postmarketing study of the use of flunarizine in vestibular vertigo and in migraine. Verspeelt J, et al. **Eur J Clin Pharmacol** 1996;51(1):15–22

Terfenadine overdose induced polymorphous ventricular tachycardia. Kothari SS, et al. **Indian Pediatr** 1995 Oct; 32(10):1107–08

Drug-induced torsades de pointes in one patient with congenital long QT syndrome. Hsieh MH, et al. **Int J Cardiol** 1996 Apr 19;54(1):85–8

Upper gastrointestinal obstruction associated with Claritin-D 24 Hour Extended Release tablets. Farinas E, et al. **J Allergy Clin Immunol** 1997 Sep;100(3):427–8

Reduction of the central nervous system adverse effects associated with antihistamines in the management of allergic disorders: strategies and progress. Gengo FM. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 3):S319–25 (31 ref.)

Terfenadine induced coma mimicking structural brain disease. Shukla R, et al. **J Assoc Physicians India** 1996 Oct; 44(10):745–6

Combined use of astemizole and ketoconazole resulting in torsade de pointes. Tsai WC, et al. **J Formos Med Assoc** 1997 Feb;96(2):144–6

Glucocorticoid use and risks of ocular hypertension and glaucoma [letter; comment] Murray MD. **JAMA** 1997 Jun 25;277(24):1930. Comment on: JAMA 1997 Mar 5;277(9):722–7.

Dangers of non-sedating antihistamines [see comments] Clark S. **Lancet** 1997 May 3;349(9061):1268. Comment in: Lancet 1997 Jul 5;350(9070):69; discussion 69–70.

Dangers of non-sedating antihistamines [letter; comment] Cohen AT. **Lancet** 1997 Jul 5;350(9070):69; discussion 69–70. Comment on: Lancet 1997 May 3;349(9061):1268. Comment on: Lancet 1997 May 3;349(9061):1322.

Dangers of non-sedating antihistamines [letter; comment] Himmel MH, et al. **Lancet** 1997 Jul 5;350(9070):69; discussion 69–70. Comment on: Lancet 1997 May 3;349(9061):1322.

Risks of non-sedating antihistamines [letter] [see comments] [published erratum appears in Lancet 1997 May 17;349(9063):1482] Lindquist M, et al. **Lancet** 1997 May 3;349(9061):1322. Comment in: Lancet 1997 Jul 5;350(9070):69; discussion 69–70.

Clarification on physical urticarias [letter; comment] Leiner S. **Nurse Pract** 1997 Mar;22(3):11; discussion 11, 14. Comment on: Nurse Pract 1996 Nov;21(11):42–6, 49–54 passim; quiz 59–61.

Torsades de pointes from terfenadine and sotalol given in combination. Feroze H, et al. **Pacing Clin Electrophysiol** 1996 Oct;19(10):1519–21

Adverse central nervous system effects of older antihistamines in children. Simons FE, et al. **Pediatr Allergy Immunol** 1996 Feb;7(1):22–7

Two cases of mequitazine-induced photosensitivity reactions. Kim TH, et al. **Photodermatol Photoimmunol Photomed** 1995 Aug;11(4):170–3

The developmental toxicity of the H1 histamine antagonists. Lione A, et al. **Reprod Toxicol** 1996 Jul–Aug;10(4):247–55 (97 ref.)

Antiallergic and antitussive medications: extent of use and relationship to asthma exacerbations. Van Ganse E, et al. **Therapie** 1996 Jul–Aug;51(4):373–7

[Torsades de pointe with spiramycine and metiquazine therapy. Apropos of a case] Verdun F, et al. **Arch Mal Coeur Vaiss** 1997 Jan;90(1):103–6 (10 ref.) (Eng. Abstr.) **(Fre)**

[Topical antihistamines. Till when? (letter; comment)] López Martín JM, et al. **Aten Primaria** 1997 Jan;19(1):58–60 (7 ref.). Comment on: Aten Primaria 1996 Jun 15;18(1):47–8. **(Spa)**

ANALYSIS

Sensitive analytical method for the novel H1-receptor antagonist HSR-609 in human plasma and urine by high-performance liquid chromatography with pre-column fluorescent derivatization. Hasegawa H, et al. **J Chromatogr B Biomed Appl** 1996 Dec 13;687(2):419–25

Resolution of terfenadine enantiomers by reversed phase-high performance liquid chromatography using beta-cyclodextrin as mobile phase additive. Surapaneni S, et al. **J Pharm Biomed Anal** 1996 Aug;14(11):1631–4

BLOOD

Analysis of terfenadine in human plasma using microbore high-performace liquid chromatography-electrospray ionisation mass spectrometry. Adams DA, et al. **J Chromatogr B Biomed Appl** 1997 Jun 6;693(2):345–51

Quantitative determination of epinastine in plasma by high-performance liquid chromatography. Ohtani H, et al. **J Chromatogr B Biomed Appl** 1996 Aug 30;683(2):281–4

Development and validation of an LC-MS-MS method for the determination of terfenadine in human plasma. Xu A, et al. **J Pharm Biomed Anal** 1996 Sep;14(12):1675–80

High-performance thin-layer chromatography for the determination of cetirizine in human plasma and its use in pharmacokinetic studies. Pandya KK, et al. **J Pharm Pharmacol** 1996 May;48(5):510–3

CEREBROSPINAL FLUID

Distribution of antihistamines into the CSF following intranasal delivery. Chou KJ, et al. **Biopharm Drug Dispos** 1997 May;18(4):335–46

CHEMICAL SYNTHESIS

Synthesis and pharmacology of combined histamine H1-/H2-receptor antagonists containing diphenhydramine and cyproheptadine derivatives. Wolf C, et al. **Arch Pharm (Weinheim)** 1996 Feb;329(2):87–94

CHEMISTRY

Quantitative structure-activity relationships in a set of thiazolidin -4-ones acting as H1-histamine antagonists. Bolognese A, et al. **J Recept Signal Transduct Res** 1995 Jan–Mar;15(1–4):631–41

ECONOMICS

Treating allergic rhinitis with second-generation antihistamines. Nightingale CH. **Pharmacotherapy** 1996 Sep–Oct;16(5):905–14 (95 ref.)

Cost of therapy for allergic rhinitis. Wessels F, et al. **S Afr Med J** 1997 Feb;87(2):141–5

HISTORY

Milestones in the biology and pharmacology of H1-receptor antagonists. Marone G. **Allergy** 1997;52(34 Suppl):7–13

METABOLISM

Probable interaction between cetirizine and acenocoumarol [letter] Berod T, et al. **Ann Pharmacother** 1997 Jan;31(1):122

Biotransformation of chlorpromazine and methdilazine by Cunninghamella elegans. Zhang D, et al. **Appl Environ Microbiol** 1996 Mar;62(3):798–803

Variability of diphenhydramine N-glucuronidation in healthy subjects. Fischer D, et al. **Eur J Drug Metab Pharmacokinet** 1997 Apr–Jun; 22(2):151–4

Quantitative structure-retention relationships in the examination of the topography of the binding site of antihistamine drugs on alpha 1-acid glycoprotein. Kaliszan R, et al. **J Chromatogr A** 1996 Jan 26;722(1–2):25–32

Olopatadine (AL-4943A): ligand binding and functional studies on a novel, long acting H1-selective histamine antagonist and anti-allergic agent for use in allergic conjunctivitis. Sharif NA, et al. **J Ocul Pharmacol Ther** 1996 Winter;12(4):401–7

Fexofenadine. **Med Lett Drugs Ther** 1996 Oct 25;38(986):95–6

CYP2D6 is the principal cytochrome P450 responsible for metabolism of the histamine H1 antagonist promethazine in human liver microsomes. Nakamura K, et al. **Pharmacogenetics** 1996 Oct;6(5):449–57

Fungal transformations of antihistamines: metabolism of cyproheptadine hydrochloride by Cunninghamella elegans. Zhang D, et al. **Xenobiotica** 1997 Mar;27(3):301–15

PHARMACOKINETICS

Studies on the first-pass metabolism of ebastine in rats. Fujii T, et al. **Arzneimittelforschung** 1997 Aug;47(8):949–53

Enantioselective biotransformation of the chiral antihistaminic drug dimethindene in humans and rats. Prien D, et al. **Arzneimittelforschung** 1997 May;47(5):653–8

Pharmacokinetic-pharmacodynamic analysis of the electrocardiographic effects of terfenadine and quinidine in rats. Ohtani H, et al. **Biol Pharm Bull** 1996 Sep; 19(9):1189–96

Systematic analysis of post-administrative saiboku-to urine by liquid chromatography to determine pharmacokinetics of traditional Chinese medicine. Homma M, et al. **Biomed Chromatogr** 1997 May–Jun;11(3):125–31

Influence of itraconazole on the pharmacokinetics and electrocardiographic effects of astemizole. Lefebvre RA, et al. **Br J Clin Pharmacol** 1997 Mar;43(3):319–22

Adsorption of levocabastine eye drops by soft contact lenses and its effects in rabbit eyes. Momose T, et al. **CLAO J** 1997 Apr;23(2):96–9

Pharmacokinetics and pharmacodynamics of cetirizine in infants and toddlers. Spičák V, et al. **Clin Pharmacol Ther** 1997 Mar;61(3):325–30

Biphasic kinetics of quaternary ammonium glucuronide formation from amitriptyline and diphenhydramine in human liver microsomes. Breyer-Pfaff U, et al. **Drug Metab Dispos** 1997 Mar;25(3):340–5

Hepatic first-pass uptake of diphenhydramine. A comparative study between fetal and adult sheep. Tonn GR, et al. **Drug Metab Dispos** 1996 Mar;24(3):273–81

The pharmacokinetic and pharmacodynamic interaction between zileuton and terfenadine. Awni WM, et al. **Eur J Clin Pharmacol** 1997;52(1):49–54

Plasma and skin suction-blister-fluid pharmacokinetics and time course of the effects of oral mizolastine. Chosidow O, et al. **Eur J Clin Pharmacol** 1996;50(4):327–33

Parametrization by nonlinear regression analysis of the active acid metabolite of ebastine using different weighting methods. Mariño EL, et al. **Int J Clin Pharmacol Ther** 1996 Dec;34(12):546–9

Effect of dirithromycin on human CYP3A in vitro and on pharmacokinetics and pharmacodynamics of terfenadine in vivo. Goldberg MJ, et al. **J Clin Pharmacol** 1996 Dec; 36(12):1154–60

Influence of food on the oral bioavailability of loratadine and pseudoephedrine from extended-release tablets in healthy volunteers. Nomeir AA, et al. **J Clin Pharmacol** 1996 Oct;36(10):923–30

The pharmacokinetics and bioavailability of clemastine and phenylpropanolamine in single-component and combination formulations. Schran HF, et al. **J Clin Pharmacol** 1996 Oct;36(10):911–22

Stereoselective N-demethylation of chlorpheniramine by rat-liver microsomes and the involvement of cytochrome P450 isozymes. Nomura A, et al. **J Pharm Pharmacol** 1997 Mar;49(3):257–62

Population pharmacokinetics of terfenadine. Lalonde RL, et al. **Pharm Res** 1996 Jun;13(6):832–8

Characterization of AUCs from sparsely sampled populations in toxicology studies. Pai SM, et al. **Pharm Res** 1996 Sep; 13(9):1283–90

Effect of cimetidine on the pharmacokinetics and pharmacodynamics of chlorpheniramine and diphenhydramine in rabbits. Simons KJ, et al. **Pharm Res** 1996 Feb;13(2):301–4

[Can one adjust the distribution of a drug in an organism to its target sites? The example of antihistaminics (anti-H1) and cetirizine] Tillement JP, et al. **Allerg Immunol (Paris)** 1996 Dec;28(10):330–2 (6 ref.) (Eng. Abstr.) **(Fre)**

PHARMACOLOGY

Decrease in plasma volume from intra-abdominal trauma in rats is prevented by H1 but not by H2 histaminergic blockade. Larmark M, et al. **Acta Anaesthesiol Scand** 1996 Jan;40(1):112–8

Lack of subsensitivity to mizolastine over 8-week treatment. Bousquet J, et al. **Allergy** 1996 Apr;51(4):251–6

Efficacy of mizolastine, a new antihistamine, compared with placebo in the treatment of chronic idiopathic urticaria. Brostoff J, et al. **Allergy** 1996 May;51(5):320–5

Inhibition of mediator and cytokine release from dispersed nasal polyp cells by terfenadine. Crampette L, et al. **Allergy** 1996 May;51(5):346–9

Onset of action in the nasal antihistaminic effect of cetirizine and loratadine in patients with allergic rhinitis. Frossard N, et al. **Allergy** 1997 Feb;52(2):205–9

Highlights in cardiovascular effects of histamine and H1-receptor antagonists. Genovese A, et al. **Allergy** 1997; 52(34 Suppl):67–78 (175 ref.)

Effect of H1-antihistamines on histamine release from dispersed canine cutaneous mast cells. García G, et al. **Am J Vet Res** 1997 Mar;58(3):293–7

Mimetics of L-histidinol which selectively modulate daunomycin toxicity in normal and tumorigenic epithelial cells. Warrington RC, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3635–9

Inhibition of collagen expression by azelastine hydrochloride in cultured skin fibroblasts from normal individuals and scleroderma patients. Yamada H, et al. **Arch Dermatol Res** 1996 Sep;288(10):575–8

Effects of histamine H1 receptor antagonists on action potentials in guinea-pig isolated papillary muscles. Ki I, et al. **Arch Int Pharmacodyn Ther** 1996 Jan–Feb; 331(1):59–73

Effects of dimethindene maleate on psychomotor performance in the oculodynamic test compared with placebo and loratadine. Englisch W, et al. **Arzneimittelforschung** 1996 Sep;46(9):887–90

Effects of 1-[3-(4-benzhydryl-1-piperazinyl)propyl]-3-(1H-imidazol-1-ylmethyl)-1H-indole-6-carboxylic acid with thromboxane A2 synthetase inhibitory and H1-blocking activities on anaphylactic bronchospasm. Nakamura S, et al. **Arzneimittelforschung** 1996 Nov; 46(11):1067–71

Oxatomide and derivatives as inhibitors of mediator release from a mast cell model. Structure-activity relationships. Paulussen JJ, et al. **Arzneimittelforschung** 1996 May; 46(5):496–501

Inhibitory effect of tranilast on activation and transforming growth factor beta 1 expression in cultured rat stellate cells. Ikeda H, et al. **Biochem Biophys Res Commun** 1996 Oct 14;227(2):322–7

A novel antiallergic drug epinastine inhibits IL-8 release from human eosinophils. Kohyama T, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):125-8

Pharmacokinetic-pharmacodynamic analysis of the electrocardiographic effects of terfenadine and quinidine in rats. Ohtani H, et al. **Biol Pharm Bull** 1996 Sep; 19(9):1189-96

The role of ketoconazole in the QTc interval prolonging effects of H1-antihistamines in a guinea-pig model of arrhythmogenicity. Gras J, et al. **Br J Pharmacol** 1996 Sep; 119(2):187-8

Regulation of histamine H1 receptor coupling by dexamethasone in human cultured airway smooth muscle. Hardy E, et al. **Br J Pharmacol** 1996 Jun;118(4):1079-84

Histamine and the nasal vasculature: the influence of H1 and H2-histamine receptor antagonism. Wood-Baker R, et al. **Clin Otolaryngol** 1996 Aug;21(4):348-52

A preclinical overview of ebastine. Studies on the pharmacological properties of a novel histamine H1 receptor antagonist. Roberts DJ. **Drugs** 1996;52 Suppl 1:8-14 (9 ref.)

The cardiac effects of terfenadine after inhibition of its metabolism by grapefruit juice. Clifford CP, et al. **Eur J Clin Pharmacol** 1997;52(4):311-5

Microinjection technique for pharmacological evaluation of microvascular permeability in human skin. Herrig I, et al. **Eur J Clin Pharmacol** 1996;49(5):365-9

Pharmacological properties of alpha-mangostin, a novel histamine H1 receptor antagonist. Chairungsrilerd N, et al. **Eur J Pharmacol** 1996 Oct 31;314(3):351-6

Role of tachykinin and bradykinin receptors and mast cells in gaseous formaldehyde-induced airway microvascular leakage in rats. Ito K, et al. **Eur J Pharmacol** 1996 Jul 4;307(3):291-8

Neomycin inhibits histamine and thapsigargin mediated Ca2+ entry in DDT1 MF-2 cells independent of phospholipase C activation. Sipma H, et al. **Eur J Pharmacol** 1996 Jun 3;305(1-3):207-12

Comparative effects of nonsedating histamine H1 receptor antagonists, ebastine and terfenadine, on human Kv1.5 channels. Valenzuela C, et al. **Eur J Pharmacol** 1997 May 20;326(2-3):257-63

Epinastine (WAL 801CL) modulates the noncholinergic contraction in guinea-pig airways in vitro by a prejunctional 5-HT1-like receptor. Dupont LJ, et al. **Eur Respir J** 1996 Jul;9(7):1433-8

Antihistamines and production of granulocyte-macrophage colony-stimulating factor and interleukin-8 by human bronchial epithelial cells in vitro: evaluation of the effects of loratadine and cetirizine. Amsellem C, et al. **Gen Pharmacol** 1996 Mar;27(2):269-72

Inhibition of human eosinophil chemotaxis in vitro by the anti-allergic agent emedastine difumarate. el-Shazly AE, et al. **Immunopharmacol Immunotoxicol** 1996 Nov; 18(4):587-95

Effects of oxyphenonium bromide and some antihistaminics (H1) on salivary flow in human volunteers [letter] Dharmadhikari SD, et al. **Indian J Physiol Pharmacol** 1997 Apr;41(2):183-4

Renal lipids in cyproheptadine treated albino rats [letter] Kabi BC, et al. **Indian J Physiol Pharmacol** 1996 Jan;40(1):105-6

Decrease of ciliary beat frequency by platelet activating factor: protective effect of ketotifen. Kahhak L, et al. **Inflamm Res** 1996 May;45(5):234-8

The effect of cetirizine and loratadine on codeine-induced histamine release in human skin in vivo assessed by cutaneous microdialysis. Perzanowska M, et al. **Inflamm Res** 1996 Sep;45(9):486-90

Leukotriene cysLT1 (LTD4) receptor antagonism of H1-antihistamines: an in vitro study. Zhang MQ, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S93-4

Modulatory effects of epinastine hydrochloride on IL-4 mRNA expression by peripheral blood mononuclear cells. Nakagawa T, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):321-2

G proteins as biological targets for anti-allergic drugs? Rihoux JP, et al. **Int Arch Allergy Immunol** 1997 May-Jul; 113(1-3):339-41

The effect of azelastine on acute radiation dermatitis in mice models. Murakami R, et al. **Int J Radiat Oncol Biol Phys** 1997 Mar 1;37(4):907-11

The clinical pharmacology of fexofenadine in children. Simons FE, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1062-4

Dietary induced anorexia: a review of involvement of the histaminergic system. Mercer LP, et al. **J Am Coll Nutr** 1996 Jun;15(3):223-30 (78 ref.)

The effect of cetirizine on the integrin-dependent respiratory burst of normodense eosinophils. Piacentini GL, et al. **J Asthma** 1996;33(6):417-23

Comparative effects of loratadine and terfenadine on cardiac K+ channels. Ducic I, et al. **J Cardiovasc Pharmacol** 1997 Jul;30(1):42-54

Administration of H1 and H2 antagonists for chemoprophylaxis: a double-blind, placebo-controlled study in healthy volunteers. Doenicke A, et al. **J Clin Pharmacol** 1997 Feb;37(2):140-6

Effects of histaminergic antagonists on the GH-releasing activity of GHRH or hexarelin, a synthetic hexapeptide, in man. Arvat E, et al. **J Endocrinol Invest** 1997 Mar; 20(3):122-7

Inhibitory effects of Korean folk medicine 'Hi-Chum' on histamine release from mast cells in vivo and in vitro. Kang BK, et al. **J Ethnopharmacol** 1997 Jul;57(2):73-9

N-acetylaspartylglutamate selectively activates mGluR3 receptors in transfected cells. Wroblewska B, et al. **J Neurochem** 1997 Jul;69(1):174-81

The in vitro and in vivo ocular pharmacology of olopatadine (AL-4943A), an effective anti-allergic/antihistaminic agent. Yanni JM, et al. **J Ocul Pharmacol Ther** 1996 Winter; 12(4):389-400

A comparative pharmacokinetic-pharmacodynamic study of the electrocardiographic effects of epinastine and terfenadine in rats. Ohtani H, et al. **J Pharm Pharmacol** 1997 Apr;49(4):458-62

Suppression of mammalian K+ channel family by ebastine. Ko CM, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):233-44

Characterization of the ocular antiallergic and antihistaminic effects of olopatadine (AL-4943A), a novel drug for treating ocular allergic diseases. Sharif NA, et al. **J Pharmacol Exp Ther** 1996 Sep;278(3):1252-61

Quantitative structure-activity relationships in a set of thiazolidin -4-ones acting as H1-histamine antagonists. Bolognese A, et al. **J Recept Signal Transduct Res** 1995 Jan-Mar;15(1-4):631-41

Studies on the novel antiallergic agent HSR-609: its penetration into the central nervous system in mice and guinea pigs and its selectivity for the histamine H1-receptor. Kakiuchi M, et al. **Jpn J Pharmacol** 1997 Apr; 73(4):291-8

The role of histamine H1-receptors in the anticonvulsive effect of morphine against maximal electroconvulsive shock in mice. Karadağ CH, et al. **Jpn J Pharmacol** 1996 Jun; 71(2):109-12

Potentiation of L-dopa-induced behavioral excitement by histamine H1-receptor antagonists in mice. Sato T, et al. **Jpn J Pharmacol** 1996 May;71(1):81-4

Suppression by azelastine hydrochloride of NF-kappa B activation involved in generation of cytokines and nitric oxide. Yoneda K, et al. **Jpn J Pharmacol** 1997 Feb; 73(2):145-53

Hippocampus and learning: possible role of histamine receptors. Alvarez EO, et al. **Medicina (B Aires)** 1996; 56(2):155-60

In vitro effect of histamine and histamine H1 and H2 receptor antagonists on cellular proliferation of human malignant melanoma cell lines. Reynolds JL, et al. **Melanoma Res** 1996 Apr;6(2):95-9

Antiasthma activity of the novel antihistamine E-4716 in guinea pigs in vivo. Cortijo J, et al. **Methods Find Exp Clin Pharmacol** 1996 Sep;18(7):465-73

Effects of E-4716, a new antihistaminic with antiallergic properties, on chemical mediators induction of immunologic reactions. Gutiérrez B, et al. **Methods Find Exp Clin Pharmacol** 1996 Jul-Aug; 18(6):397-406

EFFECTS OF HISTAMINE AND RELATED COMPOUNDS ON THE BOVINE IRIS DILATOR. KAMEI CH. **Methods Find Exp Clin Pharmacol** 1996 May; 18(4):273-8

Plasma leakage induced in postcapillary venules by the major cysteine-proteinase from Trypanosoma cruzi and its modulation by H1-blocker mepyramine. Svensjö E, et al. **Microvasc Res** 1997 Jul;54(1):93-7

Effects of intrathecally injected histamine receptor antagonists on the antinociception induced by morphine, beta-endorphin, and U50, 488H administered intrathecally in the mouse. Suh HW, et al. **Neuropeptides** 1996 Oct; 30(5):485-90

The histamine H1-antagonist chlorpheniramine facilitates learning in aged rats. Frisch C, et al. **Neurosci Lett** 1997 Jun 27;229(2):89-92

The H1-receptor antagonist chlorpheniramine decreases the ending phase of the mismatch negativity of the human auditory event-related potentials. Serra JM, et al. **Neurosci Lett** 1996 Jan 19;203(2):77-80

Centrally acting histamine H1 antagonists promote the development of amygdala kindling in rats. Yokoyama H, et al. **Neurosci Lett** 1996 Oct 18;217(2-3):194-6

Effects of non-steroidal antiallergic eyedrops on the complement-mediated histamine release from human cells. Goldschmidt P, et al. **Ocul Immunol Inflamm** 1997 Mar; 5(1):11-7

Effects of dimenhydrinate on electroencephalographic activity. Hu S. **Percept Mot Skills** 1997 Jun;84(3 Pt 1):1105-6

Effect of cimetidine on the pharmacokinetics and pharmacodynamics of chlorpheniramine and diphenhydramine in rabbits. Simons KJ, et al. **Pharm Res** 1996 Feb;13(2):301-4

Sch 37224, an experimental antiallergy compound, inhibits the neuropeptide component of hyperventilation- and nicotine-induced bronchoconstriction in guinea pigs. Mauser PJ, et al. **Pharmacology** 1997 Jan;54(1):8-15

Double protective effect of topically applied dimethindene maleate against ultraviolet light. Blazsò G, et al. **Pharmazie** 1996 Jul;51(7):516-7

Histamine H1-receptor antagonists do not prevent the appearance of endothelium-dependent relaxation to acetylcholine in rat pulmonary artery. Kyselá S, et al. **Physiol Res** 1996;45(4):345-50

Azelastine hydrochloride inhibits platelet activating factor-like activity in human eosinophils. Shindo K, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Oct; 55(4):217-21

The discriminative stimulus effects of tripelennamine in humans. Johanson CE, et al. **Psychopharmacology (Berl)** 1996 Jul;126(2):140-6

Interactions between H1-antagonists and opioids: a drug discrimination study. Suzuki T, et al. **Psychopharmacology (Berl)** 1997 Jun;131(4):346-53

Cough threshold for capsaicin increases by azelastine in patients with cough-variant asthma. Shioya T, et al. **Pulm Pharmacol** 1996 Feb;9(1):59-62

Evidence against a significant role for mast cells in blastocyst implantation in the rat and mouse. Salamonsen LA, et al. **Reprod Fertil Dev** 1996;8(8):1157-64

[Effect of dimebone on coronary blood flow and myocardial contractibility] Galenko-Iaroshevskiĭ PA, et al. **Biull Eksp Biol Med** 1996 May;121(5):506-8 **(Rus)**

[Mechanisms of histamine-induced raise in calcium levels in cardiomyocytes; relative effectiveness of histamine receptors blockers] Khankoeva AI, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):414-6 **(Rus)**

[Comparative study of the antioxidant properties of pharmacological agents blocking histamine receptors in an in vitro model system] Sergeev PV, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):638-41 **(Rus)**

POISONING

Rhabdomyolysis: a rare adverse effect of diphenhydramine overdose. Emadian SM, et al. **Am J Emerg Med** 1996 Oct; 14(6):574-6

Torsades de pointes with terfenadine ingestion. June RA, et al. **Am J Emerg Med** 1997 Sep;15(5):542-3

Alkylamine antihistamine toxicity and review of Pediatric Toxicology Registry of the National Association of Medical Examiners. Report 4: Alkylamines. Jumbelic MI, et al. **Am J Forensic Med Pathol** 1997 Mar;18(1):65-9

Arrhythmias after astemizole overdose. Heidemann SM, et al. **Pediatr Emerg Care** 1996 Apr;12(2):102-4 (17 ref.)

[Nontraumatic rhabdomyolysis due to oral poisoning by doxylamine succinate (letter)] Paytubí Garí C, et al. **Med Clin (Barc)** 1997 Mar 8;108(9):356 (5 ref.) **(Spa)**

THERAPEUTIC USE

Effect of ebastine on mosquito bites. Reunala T, et al. **Acta Derm Venereol** 1997 Jul;77(4):315-6

Effect of H1 and H2 antagonists on nasal symptoms and mediator release in atopic patients after nasal allergen challenge during the pollen season. Wang D, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):91-6

Antiallergic properties of antihistamines. Negro-Alvarez JM, et al. **Allergol Immunopathol (Madr)** 1996 Jul-Aug; 24(4):177-83 (68 ref.)

Pharmacologic therapy for urticaria. Negro-Alvarez JM, et al. **Allergol Immunopathol (Madr)** 1997 Jan-Feb;25(1):36-51 (220 ref.)

Adjunct effect of loratadine in the treatment of acute sinusitis in patients with allergic rhinitis. Braun JJ, et al. **Allergy** 1997 Jun;52(6):650-5

Efficacy of mizolastine, a new antihistamine, compared with placebo in the treatment of chronic idiopathic urticaria. Brostoff J, et al. **Allergy** 1996 May;51(5):320-5

The effect of cetirizine on sulfidoleukotriene production by blood leukocytes in children with allergic rhinitis. Kalayci O, et al. **Allergy** 1995 Dec;50(12):964-9

Idiopathic anaphylaxis: long-term follow-up, cost, and outlook. Krasnick J, et al. **Allergy** 1996 Oct;51(10):724-31

Antihistamines in the treatment of asthma. Malick A, et al. **Allergy** 1997;52(34 Suppl):55-66 (120 ref.)

Efficacy of mequitazine in comparison with placebo assessed by ocular challenge with allergen in allergic conjunctivitis. Persi L, et al. **Allergy** 1997 Apr;52(4):451-4

Can an antihistamine delay appearance of hay fever symptoms when given prior to pollen season? Stern MA, et al. **Allergy** 1997 Apr;52(4):440-4

Intranasal antihistamine gains marketing approval [news] **Am J Health Syst Pharm** 1997 Feb 1;54(3):234

Resolution of eosinophilic peritonitis with ketotifen. Tang S, et al. **Am J Kidney Dis** 1997 Sep;30(3):433-6

Treatment strategies designed to minimize medical complications of allergic rhinitis. Fireman P. **Am J Rhinol** 1997 Mar-Apr;11(2):95-102 (42 ref.)

Effects of a single dose of loratadine on flying ability under conditions of simulated cabin pressure. Valk PJ, et al. **Am J Rhinol** 1997 Jan-Feb;11(1):27-33

Prophylactic administration of histamine 1 and/or histamine 2 receptor blockers in the prevention of heparin- and protamine-related haemodynamic effects. Kanbak M, et al. **Anaesth Intensive Care** 1996 Oct;24(5):559-63

Prospective controlled study of hydroxyzine and cetirizine in pregnancy. Einarson A, et al. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):183-6

Study protocol on azelastine [letter; comment] Kelso JM. **Ann Allergy Asthma Immunol** 1997 Feb;78(2):244. Comment on: Ann Allergy Asthma Immunol 1996 Feb;76(2):181-8.

Brompheniramine, terfenadine, and placebo in allergic rhinitis [see comments] Klein GL, et al. **Ann Allergy Asthma Immunol** 1996 Nov;77(5):365-70. Comment in: Ann Allergy Asthma Immunol 1996 Nov;77(5):337-40.

Antihistamines and pregnancy [editorial] Schatz M, et al.

HISTAMINE H1 ANTAGONISTS

Ann Allergy Asthma Immunol 1997 Feb;78(2):157–9

The eternal triangle: benefit, risk, and cost of therapeutic agents [editorial; comment] Simons FE.
Ann Allergy Asthma Immunol 1996 Nov;77(5):337–40 (45 ref.). Comment on: Ann Allergy Asthma Immunol 1996 Nov;77(5):365–70.

Short-course intravenous prophylaxis for paclitaxel-related hypersensitivity reactions. Bookman MA, et al.
Ann Oncol 1997 Jun;8(6):611–4

Diphenhydramine/vancomycin admixture for infusion phlebitis [letter] Fisher CH, et al. **Ann Pharmacother** 1996 Dec;30(12):1495

Treatment of chronic urticaria with ketotifen. Egan CA, et al. **Arch Dermatol** 1997 Feb;133(2):147–9

Evaluation of the drug monitoring programme of azelastine hydrochloride nasal spray in the treatment of allergic rhinitis in children under 13 years of age. Wober W, et al. **Arzneimittelforschung** 1997 Jul;47(7):841–4

Effect of new macrolide roxithromycin upon nasal polyps associated with chronic sinusitis. Ichimura K, et al.
Auris Nasus Larynx 1996;23:48–56

Hay fever drug to become prescription only [news] Wise J. **BMJ** 1997 May 3;314(7090):1299

Effect of oral antihistamine premedication on mivacurium-induced histamine release and side effects. Doenicke A, et al. **Br J Anaesth** 1996 Sep;77(3):421–3

Chloroquine-induced pruritus in malaria fever: contribution of malaria parasitaemia and the effects of prednisolone, niacin, and their combination, compared with antihistamine. Adebayo RA, et al. **Br J Clin Pharmacol** 1997 Aug;44(2):157–61

Double-blind placebo-controlled study of oxatomide in the treatment of childhood asthma. Chiu CP, et al.
Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih 1997 Jan–Feb;38(1):14–20

Contact lens induced conjunctivitis: a model of human ocular inflammation. Friedlaender MH. **CLAO J** 1996 Jul; 22(3):205–8

Antihistamines: topical vs oral administration. Davies RJ, et al. **Clin Exp Allergy** 1996 May;26 Suppl 3:11–7 (35 ref.)

Loratadine and desethoxylcarbonyl-loratadine inhibit the immunological release of mediators from human Fc epsilon RI+ cells. Genovese A, et al. **Clin Exp Allergy** 1997 May; 27(5):559–67

Comparison of the central nervous system effects produced by six H1-receptor antagonists. Simons FE, et al.
Clin Exp Allergy 1996 Sep;26(9):1092–7

Local antihistamines. Trigg CJ, et al. **Clin Exp Allergy** 1996 Oct;26(10):1108–11 (35 ref.)

Special considerations in the treatment of seasonal allergic rhinitis in adolescents: the role of antihistamine therapy. Kemp JP. **Clin Pediatr (Phila)** 1996 Aug;35(8):383–9 (31 ref.)

Once-daily cetirizine effective in the treatment of seasonal allergic rhinitis in children aged 6 to 11 years: a randomized, double-blind, placebo-controlled study. Pearlman DS, et al. **Clin Pediatr (Phila)** 1997 Apr; 36(4):209–15

Loratadine in the treatment of urticaria. Monroe EW.
Clin Ther 1997 Mar–Apr;19(2):232–42 (60 ref.)

Topical therapy of allergic rhinitis in childhood: Allergodil nasal spray—non-sedating in children. Lassig W, et al.
Curr Med Res Opin 1996;13(7):391–5

Cetirizine: a new therapeutic alternative for chronic urticaria. Tharp MD. **Cutis** 1996 Jul;58(1):94–8

Overview of allergic mechanisms. Ebastine has more than an antihistamine effect. Campbell A, et al. **Drugs** 1996;52 Suppl 1:15–9

Comparison of the efficacy of ebastine 10mg and 20mg once daily with that of cetirizine 10mg once daily in adults with seasonal allergic rhinitis. A multicentre double-blind study. Cohen B, et al. **Drugs** 1996;52 Suppl 1:26–9

Double-blind multicentre comparative study of ebastine, terfenadine and placebo in the treatment of chronic idiopathic urticaria in adults. Kalis B. **Drugs** 1996;52 Suppl 1:30–4

Clinical efficacy of ebastine in the treatment and prevention of seasonal allergic rhinitis. Peláez A. **Drugs** 1996;52 Suppl 1:35–8

Clinical studies of the efficacy and tolerability of ebastine 10 or 20 mg once daily in the treatment of seasonal allergic rhinitis in the US. Storms WW. **Drugs** 1996;52 Suppl 1:20–5

A multicenter clinical study of the efficacy and tolerability of azelastine nasal spray in the treatment of seasonal allergic rhinitis: a comparison with oral cetirizine. Charpin D, et al. **Eur Arch Otorhinolaryngol** 1995;252(8):455–8

Histamine-1 receptor blockade does not prevent nitroglycerin induced migraine. Support for the NO-hypothesis of migraine. Lassen LH, et al.
Eur J Clin Pharmacol 1996;49(5):335–9

Does ketotifen have a steroid-sparing effect in childhood asthma? Canny GJ, et al. **Eur Respir J** 1997 Jan;10(1):65–70

Superoxide anions produced by inflammatory cells play an important part in the pathogenesis of acid and pepsin induced oesophagitis in rabbits. Naya MJ, et al. **Gut** 1997 Feb;40(2):175–81

Antihistamine responsive cluster headache in a teenaged girl. Neubauer D, et al. **Headache** 1997 May;37(5):296–8

Role of ketotifen in bronchial asthma. Kumar L.
Indian Pediatr 1996 Nov;33(11):983–4

Safety and efficacy of loratadine in urticaria. Monroe EW. **Int J Dermatol** 1996 Dec;35(12):837–41 (35 ref.)

A randomized double-blind placebo controlled study of azelastine nasal spray in children with perennial rhinitis. Herman D, et al. **Int J Pediatr Otorhinolaryngol** 1997 Feb 14;39(1):1–8

Seasonal rhinitis and azelastine: long- or short-term treatment? Ciprandi G, et al. **J Allergy Clin Immunol** 1997 Mar;99(3):301–7

Reduction of the central nervous system adverse effects associated with antihistamines in the management of allergic disorders: strategies and progress. Gengo FM.
J Allergy Clin Immunol 1996 Dec;98(6 Pt 3):S319–25 (31 ref.)

Appraisal of the validity of histamine-induced wheal and flare to predict the clinical efficacy of antihistamines. Monroe EW, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):S798–806 (65 ref.)

The safety of astemizole in pregnancy. Pastuszak A, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):748–50

Effects of pemirolast and tranilast on intimal thickening after arterial injury in the rat. Miyazawa N, et al.
J Cardiovasc Pharmacol 1997 Aug;30(2):157–62

Corticosteroids significantly delay the onset of docetaxel-induced fluid retention: final results of a randomized study of the European Organization for Research and Treatment of Cancer Investigational Drug Branch for Breast Cancer. Piccart MJ, et al.
J Clin Oncol 1997 Sep;15(9):3149–55

Inhibition of histamine-induced skin wheal and flare after 5 days of mizolastine. Pinquier JL, et al.
J Clin Pharmacol 1996 Jan;36(1):72–8

A parallel-group comparison of astemizole and loratadine for the treatment of perennial allergic rhinitis. al-Muhaimeed H. **J Int Med Res** 1997 Jul–Aug; 25(4):175–81

Is an antihistamine-decongestant combination effective in temporarily relieving symptoms of the common cold in preschool children? Clemens CJ, et al. **J Pediatr** 1997 Mar; 130(3):463–6

A clinical study to evaluate the efficacy of the antihistamine doxylamine succinate in the relief of runny nose and sneezing associated with upper respiratory tract infection. Eccles R, et al. **J Pharm Pharmacol** 1995 Dec; 47(12A):990–3

Antihistamines and their role in dermatology. Hafeez ZH. **JPMA J Pak Med Assoc** 1996 Nov;46(11):264–7 (42 ref.)

Mirtazapine—a new antidepressant. **Med Lett Drugs Ther** 1996 Dec 20;38(990):113–4

Efficacy of lodoxamide 0.1% versus N-acetyl aspartyl glutamic acid 6% ophthalmic solutions in patients with vernal keratoconjunctivitis. Gündüz K, et al.
Ophthalmic Res 1996;28(2):80–7

Comparison of effectiveness of maneuvers and medication in the treatment of benign paroxysmal positional vertigo. Itaya T, et al. **ORL J Otorhinolaryngol Relat Spec** 1997 May–Jun;59(3):155–8

Effects of chloropyramine and famotidine on postischaemic and posthypoxic myocardial damage in isolated rat hearts. Budihna M, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R217–8

Evaluation of the anti-oedematous effects of some H1-receptor antagonists and methysergide in rats. Blazsó G, et al. **Pharmacol Res** 1997 Jan;35(1):65–71

Cetirizine: a new antihistamine with minimal sedation [editorial] Hendeles L. **Pharmacotherapy** 1996 Sep–Oct; 16(5):967–8

Treating allergic rhinitis with second-generation antihistamines. Nightingale CH. **Pharmacotherapy** 1996 Sep–Oct;16(5):905–14 (95 ref.)

Allergic rhinitis. Options for pharmacotherapy and immunotherapy. Ferguson BJ. **Postgrad Med** 1997 May; 101(5):117–20, 123–6, 131 (15 ref.)

New thinking on the treatment of rhinitis. Mirakian R, et al. **Practitioner** 1997 May;241(1574):286–90

Comparison of mizolastine with loratadine in the treatment of perennial allergic rhinitis. Bellioni P, et al. **Rhinology** 1996 Jun;34(2):101–4

Cetirizine and pseudoephedrine retard alone and in combination in the treatment of perennial allergic rhinitis: a double-blind multicentre study. Bertrand B, et al.
Rhinology 1996 Jun;34(2):91–6

Malaria fighters gather at site of early victory [news] Bagla P. **Science** 1997 Sep 5;277(5331):1437–8

Enhanced efficacy of chloroquine-chlorpheniramine combination in acute uncomplicated falciparum malaria in children. Sowunmi A, et al.
Trans R Soc Trop Med Hyg 1997 Jan–Feb;91(1):63–7

Hydroxyzine therapy for interstitial cystitis. Theoharides TC, et al. **Urology** 1997 May;49(5A Suppl):108–10

[Strategy for preventing upper respiratory tract infections. Consensus of the Consulting Committee]
Allerg Immunol (Paris) 1997 Mar;29(3):80–2 (Eng. Abstr.) **(Fre)**

[Ebastine : treatment of perennial rhinitis in the child] Benavente V, et al. **Allerg Immunol (Paris)** 1996 Oct; 28(8):277–81 (Eng. Abstr.) **(Fre)**

[Rhinoconjunctivitis. Highly selective therapy using topical H1-blockers] **HNO** 1996 Mar;44(3 Suppl):1–4 **(Ger)**

[The problem of recurrence of rhino-sinusal polyposis: pilot trial with locally administered azelastine HCL in the prevention of relapses] Bussi M, et al.
Acta Otorhinolaryngol Ital 1995 Apr;15(2):101–6 (Eng. Abstr.) **(Ita)**

[An anaphylactic shock case after hepatic arterial infusion of zinostatin stimalamer suspension improved by anti-histaminics] Fukuhara K, et al.
Gan To Kagaku Ryoho 1997 Jun;24(8):1023–6 (Eng. Abstr.) **(Jpn)**

[Classification of asthma according to etiology, pathophysiology, and treatment: effects of antiallergic drugs] Fujimura M.
Nippon Kyobu Shikkan Gakkai Zasshi 1995 Dec;33 Suppl:125–33 (12 ref.) (Eng. Abstr.) **(Jpn)**

[Inhibitor of chemical mediator release] Fujimura M.
Nippon Rinsho 1996 Nov;54(11):3029–33 (8 ref.) (Eng. Abstr.) **(Jpn)**

[Comparative evaluation of the effect of dimebon, obzidan, finoptin, and cordarone on the functional state of the ischemic focus and the size of necrosis zone during experimental myocardial infarction] Galenko-Iaroshevskii PA, et al. **Biull Eksp Biol Med** 1996 Dec;122(12):642–4 **(Rus)**

[Effect of various modern drugs on the interferon system and phagocytosis in patients with lichen ruber planus] Kubanova AA, et al. **Biull Eksp Biol Med** 1996 Aug; 122(8):235–7 **(Rus)**

[Perennial rhinitis: antihistaminic and anti-inflammatory treatment] Eseverri JL, et al.
Allergol Immunopathol (Madr) 1997 Jan–Feb;25(1):1–9 (Eng. Abstr.) **(Spa)**

[Airway hyperreactivity and respiratory allergy in children]
Rev Alerg Mex 1996;43 Spec No:22–37 (73 ref.) **(Spa)**

TOXICITY

The guinea pig model for assessing cardiotoxic proclivities of second generation antihistamines [letter] Hey JA, et al.
Arzneimittelforschung 1996 Aug;46(8):834–7

Cardiotoxic and drug interaction profile of the second generation antihistamines ebastine and terfenadine in an experimental animal model of torsade de pointes [see comments] Hey JA, et al. **Arzneimittelforschung** 1996 Feb; 46(2):159–63. Comment in: Arzneimittelforschung 1996 Aug;46(8):832–3.

Some observations on the cardiotoxic and drug interaction profiles of second generation antihistamines as measured in the guinea pig [comment] Roberts DJ, et al.
Arzneimittelforschung 1996 Aug;46(8):832–3. Comment on: Arzneimittelforschung 1996 Feb;46(2):153–8. Comment on: Arzneimittelforschung 1996 Feb;46(2):159–63.

Factors affecting the extent of fetal fragility induced by histamine H1 antagonists. Sturman G, et al.
Inflamm Res 1997 Mar;46 Suppl 1:S53–4

Effects of doxylamine succinate on thyroid hormone balance and enzyme induction in mice. Bookstaff RC, et al.
Toxicol Appl Pharmacol 1996 Dec;141(2):584–94

Effects of nonsedating antihistamine, astemizole, on the in situ canine heart assessed by cardiohemodynamic and monophasic action potential monitoring. Sugiyama A, et al. **Toxicol Appl Pharmacol** 1997 Mar;143(1):89–95

URINE

Studies of the metabolism of the antihistaminic drug dimethindene by high-performance liquid chromatography and capillary electrophoresis including enantioselective aspects. Prien D, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):309–18

HISTAMINE H2 ANTAGONISTS

see related
ANTI-ULCER AGENTS

ADMINISTRATION & DOSAGE

Ranitidine bismuth citrate and clarithromycin twice daily in the eradication of Helicobacter pylori. Axon AT, et al.
Aliment Pharmacol Ther 1997 Feb;11(1):81–7

Prevention of heartburn relapse by low-dose famotidine: a test meal model for duration of symptom control. Mann SG, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):121–7

Pharmacoeconomic analysis of administration of famotidine i.v. push vs.intermittent slow i.v. infusion [letter] Ambrose PG, et al. **Ann Pharmacother** 1997 May;31(5):645

General practitioners' views on the over-the-counter availability of H2-antagonists. Erwin J, et al.
Br J Gen Pract 1997 Feb;47(415):99–102

Prevention of relapse in reflux esophagitis: a placebo controlled study of ranitidine 150 mg bid and 300 mg bid. Hegarty JH, et al. **Can J Gastroenterol** 1997 Jan–Feb; 11(1):83–8

Oral indomethacin and ranitidine in advanced melanoma: a phase II study. Mertens WC, et al.
Clin Oncol (R Coll Radiol) 1996;8(2):112–5

On-demand therapy in gastroesophageal reflux disease: a comparison of the early effects of single doses of fast-dissolving famotidine wafers and ranitidine tablets. Johannessen T, et al. **Clin Ther** 1997 Jan–Feb;19(1):73–81

Ranitidine in a twice daily triple therapy regimen for the eradication of Helicobacter pylori [letter; comment] Harris A. **Eur J Gastroenterol Hepatol** 1997 May;9(5):544. Comment on: Eur J Gastroenterol Hepatol 1996 Dec;8(12):1169–73.

Absence of tolerance in duodenal ulcer patients treated for 28 days with a bedtime dose of roxatidine or ranitidine. Savarino V, et al. **Fundam Clin Pharmacol** 1996;10(3):304–8

Long-term intravenous cimetidine treatment does not alter

cortisol response in hemodynamically stable intensive care unit patients [letter] Spapen H, et al. **Intensive Care Med** 1996 Feb;22(2):175–6

Ranitidine does not affect psoriasis: a multicenter, double-blind, placebo-controlled study. Zonneveld IM, et al. **J Am Acad Dermatol** 1997 Jun;36(6 Pt 1):932–4

Twice daily nizatidine or ranitidine is superior to once daily dosing in elevating 24 h intragastric pH in patients with duodenal ulcer disease. Thomson AB, et al. **J Gastroenterol Hepatol** 1996 Dec;11(12):1171–6

Ranitidine effervescent and famotidine wafer in the relief of episodic symptoms of gastro-oesophageal reflux disease. Engzelius JM, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):513–8

A randomized, placebo-controlled study of oral cimetidine as an immunopotentiator of parenteral immunization with a group B meningococcal vaccine. Drabick JJ, et al. **Vaccine** 1997 Jul;15(10):1144–8

[Clinical effect of ranitidine in psoriasis. An open prospective study] Nielsen HJ, et al. **Ugeskr Laeger** 1997 Jan 27; 159(5):598–600 (Eng. Abstr.) **(Dan)**

[Successful treatment of metastatic renal cell carcinoma with cimetidine—report of two cases] Nagano T, et al. **Nippon Hinyokika Gakkai Zasshi** 1996 Oct;87(10):1201–4 (Eng. Abstr.) **(Jpn)**

[Effects of histamine H2-receptor blockers and dalargin on reparative processes gastroduodenal mucosa in patients with duodenal ulcer] Alekseenko SA, et al. **Klin Med (Mosk)** 1996;74(9):52–4 (Eng. Abstr.) **(Rus)**

[The efficacy of using letsedil for treating patients with digestive organ diseases] Degtiareva II, et al. **Klin Med (Mosk)** 1996;74(2):26–8 **(Rus)**

ADVERSE EFFECTS

The safety of ranitidine in over a decade of use. Mills JG, et al. **Aliment Pharmacol Ther** 1997 Feb;11(1):129–37 (58 ref.)

Leukocytoclastic vasculitis associated with nizatidine therapy. Suh JG, et al. **Am J Med** 1997 Feb;102(2):216–7

Hypoxemia associated with cimetidine therapy in a newborn infant. Kuint J, et al. **Am J Perinatol** 1996 Jul;13(5):301–3

H2 blocker exposure as a risk factor for depression [letter] Patten SB, et al. **Can J Psychiatry** 1996 Oct;41(8):537–8

Caution with use of cimetidine in tolazoline induced upper gastrointestinal bleeding. Huang CB, et al. **Chang Keng I Hsueh** 1996 Sep;19(3):268–71

Ranitidine-induced cranial dystonia. Davis BJ, et al. **Clin Neuropharmacol** 1994 Oct;17(5):489–91

Neurobehavioral syndrome induced by H2-receptor blocker withdrawal: possible role of prolactin. Rampello L, et al. **Clin Neuropharmacol** 1997 Feb;20(1):49–54

The tolerability and safety profile of famotidine. Howden CW, et al. **Clin Ther** 1996 Jan-Feb;18(1):36–54; discussion 35 (46 ref.)

Bezoars: implicated drugs and avoidance strategies. Thompson KC, et al. **Drug Saf** 1996 Feb;14(2):85–93 (80 ref.)

Confounding by indication, histamine-2 receptor antagonists, and gastric cancer [letter; comment] Edwardes MD, et al. **Epidemiology** 1997 May;8(3):335. Comment on: Epidemiology 1996 Jul;7(4):335–6. Comment on: Epidemiology 1996 Jul;7(4):434–6.

Gastric acid, acid-suppressing drugs, and bacterial gastroenteritis: how much of a risk? Garcia Rodríguez LA, et al. **Epidemiology** 1997 Sep;8(5):571–4

Histamine-2 receptor antagonists and gastric cancer [see comments] Johnson AG, et al. **Epidemiology** 1996 Jul; 7(4):434–6. Comment in: Epidemiology 1996 Jul;7(4):335–6. Comment in: Epidemiology 1997 May;8(3):335.

Histamine-2-receptor antagonists and oesophageal cancer. Fioretti F, et al. **Eur J Cancer Prev** 1997 Apr;6(2):143–6

Increased prevalence of Listeria monocytogenes in the faeces of patients receiving long-term H2-antagonists [see comments] Cobb CA, et al. **Eur J Gastroenterol Hepatol** 1996 Nov;8(11):1071–4. Comment in: Eur J Gastroenterol Hepatol 1996 Nov;8(11):1063–6.

Acute eosinophilic pneumonia associated with ranitidine. Andreu V, et al. **J Clin Gastroenterol** 1996 Sep;23(2):160–2

Ranitidine associated visual hallucinations. Marinella MA. **J Clin Gastroenterol** 1996 Oct;23(3):238

Nizatidine-induced delirium in a nonagenarian [letter] Galynker II, et al. **J Clin Psychiatry** 1997 Jul;58(7):327

Safety of first trimester exposure to H2 blockers. Lagace E. **J Fam Pract** 1996 Oct;43(4):342–3

Alteration of bile acid metabolism by cimetidine in healthy humans. Shindo K, et al. **J Investig Med** 1996 Oct; 44(8):462–9

The protective role of gastric acidity in neonatal bacterial translocation. Dinsmore JE, et al. **J Pediatr Surg** 1997 Jul; 32(7):1014–6

[The effects of cimetidine on the pharmacodynamics of rocuronium] Latorre F, et al. **Anaesthesist** 1996 Oct; 45(10):900–2 (Eng. Abstr.) **(Ger)**

[Ulcer drugs: profile of side effects of proton-pump blockers in comparison to H2 blockers in the spontaneous reporting system] Hartmann K, et al. **Schweiz Med Wochenschr** 1996 Dec 7;126(49):2114–8 (Eng. Abstr.) **(Ger)**

[Hemolytic anemia and thrombocytopenia induced by cimetidine: recurrence with ranitidine administration] Takimoto R, et al. **Rinsho Ketsueki** 1997 Feb;38(2):124–8 (Eng. Abstr.) **(Jpn)**

[Extreme bradycardia and administration of ranitidine (letter)] Velasco P, et al. **Gastroenterol Hepatol** 1996 Mar; 19(3):186 **(Spa)**

ANALYSIS

Spectrophotometric determination of nizatidine in pharmaceutical preparations. Minic D, et al. **J Pharm Biomed Anal** 1996 Jun;14(8–10):1355–8

BLOOD

Solid-phase extraction and determination of ranitidine in human plasma by a high-performance liquid chromatographic method utilizing midbore chromatography. Farthing D, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):350–3

Simple and robust high-performance liquid chromatographic method for the determination of ranitidine in microvolumes of human serum. López-Calull C, et al. **J Chromatogr B Biomed Appl** 1997 May 23;693(1):228–32

Sensitive high-performance thin-layer chromatography method for detection and determination of ranitidine in plasma samples. Mody VD, et al. **J Chromatogr B Biomed Appl** 1996 Feb 9;676(1):175–9

CHEMICAL SYNTHESIS

Synthesis and pharmacology of combined histamine H1-/H2-receptor antagonists containing diphenhydramine and cyproheptadine derivatives. Wolf C, et al. **Arch Pharm (Weinheim)** 1996 Feb;329(2):87–94

Synthesis and assessment of formamidines as new histamine H2-receptor antagonists. Anglada L, et al. **Arzneimittelforschung** 1997 Apr;47(4A):431–4

Anti-Helicobacter pylori agents. 1. 2-(Alkylguanidino)-4-furylthiazoles and related compounds. Katsura Y, et al. **J Med Chem** 1997 Aug 1; 40(16):2462–5

CHEMISTRY

Stability of ranitidine hydrochloride and human insulin in 0.9% sodium chloride injection. Nolan PE Jr, et al. **Am J Health Syst Pharm** 1997 Jun 1;54(11):1304–6

Physicochemical properties, analytical determinations and stability of ebrotidine. Albet C, et al. **Arzneimittelforschung** 1997 Apr;47(4A):435–8

In vivo–in vitro correlations with a commercial dissolution simulator. Studies on the H2 receptor antagonist mifentidine. Erol DD, et al. **Arzneimittelforschung** 1996 Oct;46(10):986–9

Cardiac and gastric effects of histamine H2 receptor antagonists: no evidence for a correlation between lipophilicity and receptor affinity. Coruzzi G, et al. **Br J Pharmacol** 1996 Aug;118(7):1813–21

Synthesis and biological evaluation of a new reversely linked type of dual histamine H2 and gastrin receptor antagonist. Kawanishi Y, et al. **Chem Pharm Bull (Tokyo)** 1997 Jan; 45(1):116–24

Stereoselective disposition of flurbiprofen from a mutual prodrug with a histamine H2-antagonist to reduce gastrointestinal lesions in the rat. Fukuhara A, et al. **Chirality** 1996;8(7):494–502

ECONOMICS

Pharmacoeconomic analysis of administration of famotidine i.v. push vs.intermittent slow i.v. infusion [letter] Ambrose PG, et al. **Ann Pharmacother** 1997 May;31(5):645

Cost of acid peptic disorders in a managed-care organization. Segal R, et al. **Clin Ther** 1996 Mar-Apr;18(2):319–33; discussion 302

Policy analysis of the conversion of histamine2 antagonists to over-the-counter use. Kalish SC, et al. **Med Care** 1997 Jan;35(1):32–48

An empirical note on willingness to pay and starting-point bias. Stålhammar NO. **Med Decis Making** 1996 Jul-Sep; 16(3):242–7

IMMUNOLOGY

Pilot study—cimetidine enhances lymphocyte infiltration of human colorectal carcinoma: results of a small randomized control trial. Adams WJ, et al. **Cancer** 1997 Jul 1; 80(1):15–21

METABOLISM

Metabolism of ebrotidine. A review. Rozman E, et al. **Arzneimittelforschung** 1997 Apr;47(4A):486–9 (13 ref.)

In vitro studies on the metabolic fate of mifentidine, a novel histamine H2-receptor antagonist. Pattichis K, et al. **Eur J Drug Metab Pharmacokinet** 1997 Apr-Jun; 22(2):155–64

PHARMACOKINETICS

Pharmacokinetics of ebrotidine in rats and dogs. Albet C, et al. **Arzneimittelforschung** 1997 Apr;47(4A):483–5

Pharmacokinetics of ebrotidine in healthy volunteers. A summary. Albet C, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):535–9

In vivo–in vitro correlations with a commercial dissolution simulator. Studies on the H2 receptor antagonist mifentidine. Erol DD, et al. **Arzneimittelforschung** 1996 Oct;46(10):986–9

Tolerability and pharmacokinetics of ebrotidine in healthy subjects given single and repeated oral doses. Farré M, et al. **Arzneimittelforschung** 1997 Apr;47(4A):528–30

Pharmacokinetic study of ebrotidine administered in multiple doses to healthy volunteers for 4 days. Frías J, et al. **Arzneimittelforschung** 1997 Apr;47(4A):531–4

Prediction of absolute bioavailability for drugs using oral and renal clearance following a single oral dose: a critical view. Mahmood I. **Biopharm Drug Dispos** 1997 Aug;18(6):465–73

Pharmacokinetics of bismuth and ranitidine following single doses of ranitidine bismuth citrate. Koch KM, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):201–5

Pharmacokinetics of bismuth and ranitidine following multiple doses of ranitidine bismuth citrate. Koch KM, et al. **Br J Clin Pharmacol** 1996 Aug;42(2):207–11

Stereoselective disposition of flurbiprofen from a mutual prodrug with a histamine H2-antagonist to reduce gastrointestinal lesions in the rat. Fukuhara A, et al. **Chirality** 1996;8(7):494–502

Pharmacokinetics and pharmacodynamics of famotidine in paediatric patients. James LP, et al. **Clin Pharmacokinet** 1996 Aug;31(2):103–10 (21 ref.)

Pharmacokinetics and pharmacodynamics of ranitidine in renal impairment. Koch KM, et al. **Eur J Clin Pharmacol** 1997;52(3):229–34

Pharmacokinetic interaction study of citalopram and cimetidine in healthy subjects [letter] Priskorn M, et al. **Eur J Clin Pharmacol** 1997;52(3):241–2

Pharmacokinetics and pharmacodynamics of famotidine in children. James LP, et al. **J Clin Pharmacol** 1996 Jan; 36(1):48–54

Plasma analysis and pharmacokinetics of zaltidine, an H2-antagonist, in cattle after intravenous, intramuscular, subcutaneous, and oral administration. Hunter RP, et al. **J Vet Pharmacol Ther** 1996 Aug;19(4):326–8

PHARMACOLOGY

Decrease in plasma volume from intra-abdominal trauma in rats is prevented by H1 but not by H2 histaminergic blockade. Larmark M, et al. **Acta Anaesthesiol Scand** 1996 Jan;40(1):112–8

Effect of cimetidine on basal and postprandial plasma concentrations of cholecystokinin and gastrin in humans. Støa-Birketvedt G, et al. **Acta Physiol Scand** 1997 Apr; 159(4):321–5

Brain-mediated protective interactions of histaminergic H2 and dopaminergic systems in rats. Grabarević Z, et al. **Acta Vet Hung** 1997;45(1):85–93

Effect of the oral anti-ulcer agent, cimetidine, on HIV type 1 replication [letter] Bourinbaiar AS, et al. **AIDS Res Hum Retroviruses** 1997 Mar 1;13(4):281–2

In single doses ranitidine effervescent is more effective than lansoprazole in decreasing gastric acidity. Arnestad JS, et al. **Aliment Pharmacol Ther** 1997 Apr;11(2):355–8

Effects of ranitidine bismuth citrate on gastric acid secretion and gastrin release in subjects with and without Helicobacter pylori infection. Ciociola AA, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):905–12

Early and late effects of low-dose famotidine, ranitidine or placebo on pentagastrin-stimulated gastric acid secretion in man. Grimley CE, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):743–7

The effects of acid inhibitors on gastric mucus [letter; comment] Guslandi M. **Aliment Pharmacol Ther** 1996 Aug; 10(4):669–70. Comment on: Aliment Pharmacol Ther 1996 Feb;10(1):105–9. Comment on: Aliment Pharmacol Ther 1996 Feb;10(1):111–7.

Low-dose famotidine and ranitidine as single post-prandial doses: a three-period placebo-controlled comparative trial. Reilly TG, et al. **Aliment Pharmacol Ther** 1996 Oct; 10(5):749–55

The effects of omeprazole and famotidine on mucin and PGE2 release in the rat stomach [see comments] Yoshimura K, et al. **Aliment Pharmacol Ther** 1996 Feb;10(1):111–7. Comment in: Aliment Pharmacol Ther 1996 Aug;10(4):669–70.

Effect of ranitidine on theophylline metabolism in healthy Koreans living in China. Kehoe WA, et al. **Ann Pharmacother** 1996 Feb;30(2):133–7

Potentiation of nephrotoxicity by H2-antagonists in patients receiving cyclosporine. Lewis SM, et al. **Ann Pharmacother** 1997 Mar;31(3):363–5 (20 ref.)

Action of ebrotidine, ranitidine and cimetidine on the specific binding to histamine H1- and H2-receptors. Agut J, et al. **Arzneimittelforschung** 1997 Apr;47(4A):447–9

Effects of the novel histamine H2-receptor antagonist (+/-)-(E)-1-[2-hydroxy-2-(4-hydroxyphenyl)ethyl]-3-[2-[[[5-(methylamino)methyl-2-furyl]methyl]thio]ethyl]-2-(methylsulfonyl) guanidine on gastric secretion and gastroduodenal ulcers in rats. Amagase K, et al. **Arzneimittelforschung** 1996 Feb;46(2):177–84

Enhancement of alcohol-induced hypoglycaemia by H2-receptor antagonists. Czyżyk A, et al. **Arzneimittelforschung** 1997 Jun;47(6):746–9

Studies on the cytoprotective and antisecretory activity of ebrotidine. A review. Konturek PC, et al. **Arzneimittelforschung** 1997 Apr;47(4A):578–89 (73 ref.)

Continuous intragastric pH monitoring in the evaluation of ebrotidine, cimetidine and placebo on gastric acidity in healthy volunteers. Muñoz-Navas M, et al. **Arzneimittelforschung** 1997 Apr;47(4A):539–44

Effect of the histamine H2-receptor antagonist (+/-)-(E)-1-[2-hydroxy-2-(4-hydroxyphenyl)ethyl]-3'-[2-[[[5-methylamino) methyl-2-furyl] methyl]thio]ethyl]-2"-(methylsulfonyl)guanidine on acute gastric mucosal injury in rats and its free-radical scavenging activities. Naito Y, et al. **Arzneimittelforschung** 1997 Jul;47(7):845-8

Ebrotidine. A new generation H2-receptor antagonist and gastroprotective agent. Introduction. Ortiz JA. **Arzneimittelforschung** 1997 Apr;47(4A):427-30 **(Eng, Ger, Spa)**

In vitro anti-Helicobacter pylori activity of ebrotidine. Palacín C, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):471-4

Histamine H2-receptor antagonist action of ebrotidine. Effects on gastric acid secretion, gastrin levels and NSAID-induced gastrotoxicity in the rat. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):439-46

Involvement of endogenous nitric oxide and sulfhydryl compounds in ebrotidine-induced gastroprotection. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):468-71

Effect of ebrotidine on ethanol-induced gastric mucosal damage in the rat. Comparative study with other H2-receptor antagonists. Palop D, et al. **Arzneimittelforschung** 1997 Apr;47(4A):450-4

Study on the increment of the amount of gastric mucus in rats after repeated-dose administration of ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):455-8

Study of the population of antral G-cells and enterochromaffin-like cells in the rat and mouse gastric mucosa after long-term treatment with ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):520-3

Comparative study of plasma gastrin levels in rats after two months of ebrotidine administration. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):524-7

Anti-Helicobacter pylori activities of ebrotidine. A review of biochemical and animal experimental studies and data. Slomiany BL, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):475-82 (64 ref.)

Gastroprotective properties of ebrotidine. A review. Slomiany BL, et al. **Arzneimittelforschung** 1997 Apr; 47(4A):459-67 (49 ref.)

Mixed antisecretory and gastroprotective activities of a new H2-antagonist containing a nitric oxide-donor furoxan moiety. Sorba G, et al. **Arzneimittelforschung** 1997 Jul; 47(7):849-54

Susceptibility of growth factors to degradation by Helicobacter pylori protease: effect of ebrotidine and sucralfate. Slomiany BL, et al. **Biochem Mol Biol Int** 1996 Sep;40(1):209-15

Pharmacological profiles of a new antiulcer agent, SWR-215. Kataoka H, et al. **Biol Pharm Bull** 1997 Jan;20(1):28-35

Effect of ranitidine hydrochloride (150 mg twice daily) on the pharmacokinetics of increasing doses of ethanol (0.15, 0.3, 0.6 g kg-1). Bye A, et al. **Br J Clin Pharmacol** 1996 Feb;41(2):129-33

A pharmacokinetic and pharmacodynamic interaction study between nebivolol and the H2-receptor antagonists cimetidine and ranitidine. Kamali F, et al. **Br J Clin Pharmacol** 1997 Feb;43(2):201-4

Cardiac and gastric effects of histamine H2 receptor antagonists: no evidence for a correlation between lipophilicity and receptor affinity. Coruzzi G, et al. **Br J Pharmacol** 1996 Aug;118(7):1813-21

Histamine 2 receptor blocker-ranitidine and sinus node dysfunction. Hu WH, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1997 Jul;60(1):1-5

Histamine and the nasal vasculature: the influence of H1 and H2-histamine receptor antagonism. Wood-Baker R, et al. **Clin Otolaryngol** 1996 Aug;21(4):348-52

Effect of antireflux medication on salivary drooling in children with cerebral palsy. Heine RG, et al. **Dev Med Child Neurol** 1996 Nov;38(11):1030-6

Reversion by histamine H2-receptor antagonists of plasma membrane alterations in ethanol-induced gastritis. Hernández-Muñoz R, et al. **Dig Dis Sci** 1996 Nov; 41(11):2156-65

Statistical interpretation of the antisecretory effect of famotidine measured by intragastric pH-metry. Hunyady B, et al. **Eur J Clin Pharmacol** 1996;50(6):449-56

Effect of ranitidine on renal clearance of lomefloxacin. Sudoh T, et al. **Eur J Clin Pharmacol** 1996;51(1):95-8

Stimulation of mucin biosynthesis in rat gastric mucosa by FRG-8813 and its structural analogs. Ichikawa T, et al. **Eur J Pharmacol** 1996 Feb 15;297(1-2):87-92

Application of flow cytometry to the analysis of the immunosuppressive effect of histamine dilutions on human basophil activation: effect of cimetidine. Sainte-Laudy J, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S27-8

Effect of cimetidine on the pharmacokinetics of the metabolites of metamizol. Bacracheva N, et al. **Int J Clin Pharmacol Ther** 1997 Jul;35(7):275-81

Influence of the antacid Maalox and the H2-antagonist cimetidine on the pharmacokinetics of cerivastatin. Mück W, et al. **Int J Clin Pharmacol Ther** 1997 Jun;35(6):261-4

Comparison of antiproliferative effects of 1-histamine-2 receptor antagonists, cimetidine, ranitidine, and famotidine, in gastric cancer cells. Hahm KB, et al. **Int J Immunopharmacol** 1996 Jun-Jul;18(6-7):393-9

The effect of cimetidine and ranitidine on cognitive function in postoperative cardiac surgical patients. Kim KY, et al. **Int J Psychiatry Med** 1996;26(3):295-307

Histamine H2 receptor-mediated airway goblet cell secretion and its modulation by histamine-degrading enzymes. Tamaoki J, et al. **J Allergy Clin Immunol** 1997 Feb; 99(2):233-8

Interaction of meloxicam with cimetidine, Maalox, or aspirin. Busch U, et al. **J Clin Pharmacol** 1996 Jan;36(1):79-84

Administration of H1 and H2 antagonists for chemoprophylaxis: a double-blind, placebo-controlled study in healthy volunteers. Doenicke A, et al. **J Clin Pharmacol** 1997 Feb;37(2):140-6

Pharmacokinetics and pharmacodynamics of famotidine in children. James LP, et al. **J Clin Pharmacol** 1996 Jan; 36(1):48-54

Effect of a cola beverage on the bioavailability of itraconazole in the presence of H2 blockers. Lange D, et al. **J Clin Pharmacol** 1997 Jun;37(6):535-40

The effect of cimetidine on antipyrine metabolism in calves. Janus K, et al. **J Vet Pharmacol Ther** 1997 Feb;20(1):73-6

Cimetidine inhibits the induction of long-term potentiation in the dentate gyrus of rats in vivo. Chang M, et al. **Jpn J Pharmacol** 1997 Jul;74(3):281-3

The effect of histamine type 2 receptor antagonists on human immunodeficiency virus (HIV) replication: identification of a new class of antiviral agents. Bourinbaiar AS, et al. **Life Sci** 1996;59(23):PL 365-70

Hippocampus and learning: possible role of histamine receptors. Alvarez EO, et al. **Medicina (B Aires)** 1996; 56(2):155-60

In vitro effect of histamine and histamine H1 and H2 receptor antagonists on cellular proliferation of human malignant melanoma cell lines. Reynolds JL, et al. **Melanoma Res** 1996 Apr;6(2):95-9

Cimetidine and other H2-receptor antagonists as inhibitors of human E3 aldehyde dehydrogenase. Kikonyogo A, et al. **Mol Pharmacol** 1997 Aug;52(2):267-71

Chronic beta 1-adrenoceptor blockade sensitises the H1 and H2 receptor systems in human atrium: rôle of cyclic nucleotides. Sanders L, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 May; 353(6):661-70

Ranitidine has no influence on tubular creatinine secretion. van den Berg JG, et al. **Nephron** 1996;74(4):705-8

Effect of histamine and the H2 antagonist cimetidine on the growth and migration of human neoplastic glia [published erratum appears in Neuropathol Appl Neurobiol 1996 Dec;22(6):559] Finn PE, et al. **Neuropathol Appl Neurobiol** 1996 Aug;22(4):317-24

Effect of cimetidine on the pharmacokinetics and pharmacodynamics of chlorpheniramine and diphenhydramine in rabbits. Simons KJ, et al. **Pharm Res** 1996 Feb;13(2):301-4

Effects of 2-guanidine-4-methylquinazoline on gastric acid secretion in rats. Pinelli A, et al. **Pharmacol Res** 1996 Nov-Dec;34(5-6):225-30

Influence of H2-receptor- and proton pump inhibitors on some functions of the oxydative and conjugative drug metabolism. Scheuch E, et al. **Pharmazie** 1996 Jul; 51(7):493-7

The effect of cimetidine on ethanol concentrations in fasting women and men after two different doses of alcohol. Clemmesen JO, et al. **Scand J Gastroenterol** 1997 Mar; 32(3):217-20

Cimetidine enhances the hepatoprotective action of N-acetylcysteine in mice treated with toxic doses of paracetamol. Al-Mustafa ZH, et al. **Toxicology** 1997 Sep 5;121(3):223-8

[The effects of histamine H2 receptor agonist, antagonist and antineoplastic agent on the in vitro growth of PB CFU-GM from normal individuals and HL-60 leukemia cells] He Q, et al. **Yao Hsueh Hsueh Pao** 1996;31(5):340-5 (Eng. Abstr.) **(Chi)**

[H2-receptor antagonists and alcohol: clinical significance] Nemesánszky É, et al. **Orv Hetil** 1996 Jun 16; 137(24):1309-13 (43 ref.) (Eng. Abstr.) **(Hun)**

[Effect of histamine H2-receptor antagonists on the phosphorus-binding ability of phosphate binders in hemodialysis patients] Takahashi N, et al. **Nippon Jinzo Gakkai Shi** 1996 Dec;38(12):610-7 (Eng. Abstr.) **(Jpn)**

[Effects of Cuban analog (SWR-104SA), a new histamine H2 receptor antagonist, on gastric acid secretion and experimental ulcer formation] Shinkawa R, et al. **Yakugaku Zasshi** 1996 Oct;116(10):783-91 (Eng. Abstr.) **(Jpn)**

[The effect of cimetidine and famotidine on esophageal motility] Paradowski L, et al. **Pol Tyg Lek** 1996 Apr; 51(14-18):227-9 (Eng. Abstr.) **(Pol)**

[Mechanisms of histamine-induced raise in calcium levels in cardiomyocytes; relative effectiveness of histamine receptors blockers] Khankoeva AI, et al. **Biull Eksp Biol Med** 1997 Apr;123(4):414-6 **(Rus)**

THERAPEUTIC USE

Effect of H1 and H2 antagonists on nasal symptoms and mediator release in atopic patients after nasal allergen challenge during the pollen season. Wang D, et al. **Acta Otolaryngol (Stockh)** 1996 Jan;116(1):91-6

Reflux symptom relief with omeprazole in patients without unequivocal oesophagitis. Bate CM, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):547-55

Lansoprazole versus ranitidine in the maintenance treatment of reflux oesophagitis. Gough AL, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):529-39

Ranitidine bismuth citrate therapy [letter; comment] Harris A, et al. **Aliment Pharmacol Ther** 1996 Dec;10(6):1035. Comment on: Aliment Pharmacol Ther 1996 Jun;10(3):251-61.

The actions of bismuth in the treatment of Helicobacter pylori infection. Lambert JR, et al. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:27-33 (62 ref.)

Ranitidine bismuth citrate: a novel anti-ulcer agent with different physico-chemical characteristics and improved biological activity to a bismuth citrate-ranitidine admixture. McColm AA, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):241-50

Review article: clinical aspects of Helicobacter pylori eradication therapy in peptic ulcer disease. Penston JG. **Aliment Pharmacol Ther** 1996 Aug;10(4):469-86 (200 ref.)

Ranitidine bismuth citrate plus clarithromycin is effective for healing duodenal ulcers, eradicating H. pylori and reducing ulcer recurrence. RBC H. pylori Study Group [see comments] Peterson WL, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):251-61. Comment in: Aliment Pharmacol Ther 1996 Dec;10(6):1035.

The role of antisecretory drugs in the treatment of Helicobacter pylori infection. Peterson WL. **Aliment Pharmacol Ther** 1997 Apr;11 Suppl 1:21-5 (36 ref.)

The management of refractory gastric ulcer using H2-receptor antagonists. Raju GS, et al. **Aliment Pharmacol Ther** 1996 Jun;10(3):387-96

The safety and efficacy of ranitidine bismuth citrate in combination with antibiotics for the eradication of Helicobacter pylori. Wyeth JW, et al. **Aliment Pharmacol Ther** 1996 Aug;10(4):623-30

Histamine H2-receptor antagonists and chronic theophylline toxicity [letter] Alterman P, et al. **Am Fam Physician** 1996 Oct;54(5):1473, 1477

Lansoprazole and ranitidine affect the accuracy of the 14C-urea breath test by a pH-dependent mechanism. Chey WD, et al. **Am J Gastroenterol** 1997 Mar;92(3):446-50

Omeprazole and Barrett's regression: is asymptomatic good enough? Krueger KJ, et al. **Am J Gastroenterol** 1997 Jan; 92(1):177-8

Lansoprazole heals erosive reflux esophagitis resistant to histamine H2-receptor antagonist therapy. Sontag SJ, et al. **Am J Gastroenterol** 1997 Mar;92(3):429-37

Lanzoprazole and ranitidine affect the accuracy of the 14C-urea breath test by a pH-dependent mechanism [letter] Stermer E, et al. **Am J Gastroenterol** 1997 Sep;92(9):1575-6

Prophylactic administration of histamine 1 and/or histamine 2 receptor blockers in the prevention of heparin- and protamine-related haemodynamic effects. Kanbak M, et al. **Anaesth Intensive Care** 1996 Oct;24(5):559-63

Histamine-2 receptor antagonists as immunomodulators: new therapeutic views? Nielsen HJ. **Ann Med** 1996 Apr; 28(2):107-13 (122 ref.)

Short-course intravenous prophylaxis for paclitaxel-related hypersensitivity reactions. Bookman MA, et al. **Ann Oncol** 1997 Jun;8(6):611-4

Prevention of nonsteroidal anti-inflammatory drug-induced gastrointestinal mucosal injury. A meta-analysis of randomized controlled clinical trials [see comments] Koch M, et al. **Arch Intern Med** 1996 Nov 11;156(20):2321-32. Comment in: ACP J Club 1997 Mar-Apr;126(2):36.

A double-blind, placebo-controlled study of the effectiveness and safety of nizatidine in the prevention of postprandial heartburn. Spiegel JE, et al. **Arch Intern Med** 1997 Jul 28; 157(14):1594-9

Comparison of the efficacy and safety of ebrotidine in the treatment of duodenal ulcer. A multicentre, double-blind, placebo-controlled phase II study. Gabryelewicz A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):545-50

Efficacy of ebrotidine and ranitidine in the treatment of benign gastric ulcer. Gedliczka O, et al. **Arzneimittelforschung** 1997 Apr;47(4A):560-4

Ebrotidine versus ranitidine in the treatment of acute duodenal ulcer. A multicentre, randomized, double-blind, controlled clinical trial. Matov V, et al. **Arzneimittelforschung** 1997 Apr;47(4A):555-9

Efficacy of ebrotidine and ranitidine combined with amoxicillin and metronidazole in the eradication of Helicobacter pylori in patients with duodenal ulcer. Popiela T, et al. **Arzneimittelforschung** 1997 Apr;47(4A):573-7

Studies on the protective effect of ebrotidine on experimental ulcers induced by non-steroidal anti-inflammatory drugs in healthy volunteers. Puscas I, et al. **Arzneimittelforschung** 1997 Apr;47(4A):565-8

Comparative study of the safety and efficacy of ebrotidine versus ranitidine and placebo in the prevention of piroxicam-induced gastroduodenal lesions. Puscas I, et al. **Arzneimittelforschung** 1997 Apr;47(4A):568-72

Ebrotidine versus ranitidine in the healing and prevention of relapse of duodenal ulcer. A multicentre, double-blind, parallel, randomized, controlled study. Tulassay Z, et al. **Arzneimittelforschung** 1997 Apr;47(4A):551-5

Criticism of prophylaxis of gastrointestinal bleeding with H2 receptor antagonists is wrong [letter; comment] Cook TM. **BMJ** 1997 Aug 9;315(7104):371-2. Comment on: BMJ 1997 Apr 5;314(7086):1013.

H2 blockers in the intensive care unit: ignoring the evidence? Telephone survey [see comments] Wyncoll DL, et al. **BMJ** 1997 Apr 5;314(7086):1013. Comment in: BMJ 1997

Aug 9;315(7104):371–2.
Randomized controlled trial of an H2–receptor antagonist in gastric cancer. Wotherspoon HA, et al. **Br J Surg** 1997 Aug;84(8):1168–9
The effect of cimetidine on serum acidic markers and Helicobacter pylori in gastric ulcer subjects. Lee CT, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Jan; 57(1):28–33
Smooth pursuit eye movements in the evaluation of famotidine adjunctive therapy of schizophrenia: a preliminary report. Rosenberg PB, et al. **Clin Neuropharmacol** 1996 Jun;19(3):276–81
Infectious mononucleosis treated by an antihistamine: a comparison of the efficacy of ranitidine (Zantac) vs placebo in the treatment of infectious mononucleosis. Vendelbo Johansen L, et al. **Clin Otolaryngol** 1997 Apr;22(2):123–5
The effect of the H2 antagonist cimetidine on the numbers of CD4+ and CD8+ cells in the nasal mucosa of patients with allergic rhinitis. Yang PC, et al. **Clin Otolaryngol** 1997 Apr;22(2):93–5
Pharmacokinetics and pharmacodynamics of famotidine in paediatric patients. James LP, et al. **Clin Pharmacokinet** 1996 Aug;31(2):103–10 (21 ref.)
Steroid therapy and H2–receptor antagonists: pharmacoeconomic implications. Marcus P, et al. **Clin Pharmacol Ther** 1997 May;61(5):503–8 (18 ref.)
Ranitidine versus cimetidine in the healing of erosive esophagitis. McCarty–Dawson D, et al. **Clin Ther** 1996 Nov–Dec;18(6):1150–60
Roxatidine versus ranitidine in the treatment of patients with duodenal ulcer: a randomized, double–masked, multicenter study. Zuberi SJ, et al. **Clin Ther** 1996 Nov–Dec; 18(6):1207–12
A randomized, controlled study of prophylactic ranitidine in preventing stress–induced gastric mucosal lesions in neonatal intensive care unit patients. Kuusela AL, et al. **Crit Care Med** 1997 Feb;25(2):346–51
Ranitidine improves lymphocyte function after severe head injury: results of a randomized, double–blind study. Rixen D, et al. **Crit Care Med** 1996 Nov;24(11):1787–92
Pylorid, H. pylori and peptic ulcer. **Drug Ther Bull** 1996 Sep;34(9):69–70
Zollinger–Ellison syndrome. Recognition and management of acid hypersecretion. Maton PN. **Drugs** 1996 Jul; 52(1):33–44 (59 ref.)
Treatment of peptic ulcer in the elderly. Proton pump inhibitors and histamine H2 receptor antagonists. Lazzaroni M, et al. **Drugs Aging** 1996 Oct;9(4):251–61 (72 ref.)
Treatment of gastric ulcers in horses with histamine type 2 receptor antagonists. Furr MO, et al. **Equine Vet J Suppl** 1989 Jun;(7):77–9
Proton–pump inhibitors are the treatment of choice in acid–related disease. Brunner G. **Eur J Gastroenterol Hepatol** 1996 Oct;8 Suppl 1:S9–13 (42 ref.)
The changing role of H2–receptor antagonists in acid–related diseases. Lamers CB. **Eur J Gastroenterol Hepatol** 1996 Oct;8 Suppl 1:S3–7 (38 ref.)
Helicobacter pylori infection status in relation to antibiotic and non–steroidal prescribing in patients on maintenance treatment for chronic duodenal ulcer. Prach AT, et al. **Eur J Gastroenterol Hepatol** 1997 Mar;9(3):251–6
Effect of a novel histamine H2 receptor antagonist, IT–066, on acute gastric injury induced by ischemia–reperfusion in rats, and its antioxidative properties. Naito Y, et al. **Eur J Pharmacol** 1995 Dec 27;294(1):47–54
How do you spell relief in reflux esophagitis? PPI! Fennerty MB. **Gastroenterology** 1996 Sep;111(3):826–7
Omeprazole versus histamine H2 receptor antagonists in the treatment of acute upper non–variceal bleeding. Mohamed SA, et al. **Hepatogastroenterology** 1996 Jul–Aug; 43(10):863–5
Medical Therapy of GERD: current state of the art. Johnson DA. **Hosp Pract (Off Ed)** 1996 Oct 15;31(10):135–9, 143–4, 147–8 (0 ref.)
Cimetidine in the treatment of porphyria cutanea tarda. Horie Y, et al. **Intern Med** 1996 Sep;35(9):717–9
Suppression of gastric acidity in horses. Murray MJ. **J Am Vet Med Assoc** 1997 Jul 1;211(1):37–40 (33 ref.)
Comparison of colloidal bismuth subcitrate and metronidazole, both in combination with an H2–antagonist as therapy for Helicobacter pylori. Baffone W, et al. **J Chemother** 1997 Jun;9(3):208–12
Prevention of NSAID–induced GI mucosal injury. Gerritz S, et al. **J Fam Pract** 1997 Feb;44(2):130–1
Roxatidine versus ranitidine in the treatment of duodenal ulcer: a randomized, double blind, controlled, multicenter study in Thailand. Kachintorn U, et al. **J Med Assoc Thai** 1995 Dec;78(12):641–7
Practice guidelines for treatment of peptic ulcer disease [letter; comment] Webb DD. **JAMA** 1996 Oct 9; 276(14):1136; discussion 1136–7. Comment on: JAMA 1996 Feb 28;275(8):622–9.
Prevention of gastric ulcer relapse induced by indomethacin in rats by a mutein of basic fibroblast growth factor. Satoh H, et al. **Jpn J Pharmacol** 1997 Mar;73(3):229–41
Medical treatment of gastroesophageal reflux disease does not prevent the development of Barrett's metaplasia and poor esophageal body motility. Wetscher GJ, et al. **Langenbecks Arch Chir** 1997;382(2):95–9
Oral famotidine: a potential treatment for children with autism. Linday LA. **Med Hypotheses** 1997 May;48(5):381–6 (38 ref.)
Famotidine to prevent peptic ulcer caused by NSAIDs [letter] Graham DY. **N Engl J Med** 1996 Oct 24; 335(17):1322; discussion 1322–3
Eradication treatment for Helicobacter pylori in general practice. Fraser AG, et al. **N Z Med J** 1996 Nov 8; 109(1033):422–4
Histamine H2 blocking drugs and the risk for Alzheimer's disease: the Rotterdam Study. Launer LJ, et al. **Neurobiol Aging** 1997 Mar–Apr;18(2):257–9
Double–blind, placebo–controlled study of ranitidine for gastroesophageal reflux symptoms during pregnancy. Larson JD, et al. **Obstet Gynecol** 1997 Jul;90(1):83–7
Treatment of molluscum contagiosum with oral cimetidine: clinical experience in 13 patients. Dohil M, et al. **Pediatr Dermatol** 1996 Jul–Aug;13(4):310–2
Treatment of Helicobacter pylori infection: a review. Blecker U, et al. **Pediatr Infect Dis J** 1997 Apr;16(4):391–9 (105 ref.)
Effects of chloropyramine and famotidine on postischaemic and posthypoxic myocardial damage in isolated rat hearts. Budihna M, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R217–8
Gastroesophageal reflux disease. The long and the short of therapeutic options. Brady WM, et al. **Postgrad Med** 1996 Nov;100(5):76–80, 85–6, 89 (21 ref.)
Gastro–oesophageal reflux during 3 months of therapy with ranitidine in reflux oesophagitis. Hatlebakk JG, et al. **Scand J Gastroenterol** 1996 Oct;31(10):954–8
Peptic ulcer perforation before and after the introduction of H2–receptor blockers and proton pump inhibitors. Hermansson M, et al. **Scand J Gastroenterol** 1997 Jun; 32(6):523–9
Helicobacter pylori eradication: therapy other than with bismuth or proton–pump inhibitors. Korman MG. **Scand J Gastroenterol Suppl** 1996;220:41–3 (25 ref.)
Gastro–oesophageal reflux disease in The Netherlands. Results of a multicentre pH study. Smout AJ, et al. **Scand J Gastroenterol Suppl** 1996;218:10–5
Pooled analysis of anti–Helicobacter pylori treatment regimens. Unge P, et al. **Scand J Gastroenterol Suppl** 1996; 220:27–40 (307 ref.)
Role of histamine–2 receptor antagonists after simple closure of perforated duodenal ulcer—a double blind randomised, controlled study. Sevvel S, et al. **Trop Gastroenterol** 1996 Oct–Dec;17(4):227–9
Metoclopramide and (or) cimetidine administration to sheep fed tall fescue. Rankins DL Jr. **Vet Hum Toxicol** 1996 Jun; 38(3):173–6
[Conservative treatment of gastroduodenal peptic ulcer perforations: indications and results] Alizadeh N, et al. **Schweiz Med Wochenschr Suppl** 1997;89:17S–19S (Eng. Abstr.) **(Fre)**
[What is the role of H2 receptor blockers today in ulcer therapy?] Creutzfeldt W. **Internist (Berl)** 1996 Sep; 37(9):937–8 **(Ger)**
[Meta–analysis should be regarded with extreme caution (letter; comment)] Miehlke S, et al. **Z Gastroenterol** 1996 Aug;34(8):XVIII–XX; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**
[Meta–analysis raises more questions, than it answers (letter; comment)] Petersen KU. **Z Gastroenterol** 1996 Aug; 34(8):XVII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**
[Meta–analyses are hardly suitable for conclusively proving medical controversies (letter; comment)] Stolte M. **Z Gastroenterol** 1996 Aug;34(8):XVII–XVIII; discussion XX–XXII. Comment on: Z Gastroenterol 1996 May;34(5):267–72. **(Ger)**
[Regression of primary gastric lymphoma after treatment with ranitidine] Tassinari D, et al. **Recenti Prog Med** 1997 Apr;88(4):179–80 (Eng. Abstr.) **(Ita)**
[Conservative treatment of ulcer hemorrhage with histamine H2 antagonists] Grigor'ev PI, et al. **Khirurgiia (Mosk)** 1997; (5):63–5 **(Rus)**
[Nizatidine++ among the drugs usable in the treatment of acid–dependent gastric diseases] German SV. **Klin Med (Mosk)** 1997;75(5):34–41 (103 ref.) **(Rus)**
[Quamatel efficacy against ulcer] Nogaller AM, et al. **Klin Med (Mosk)** 1996;74(9):55–8 **(Rus)**
[The endoscopic assessment of the effect of ranitidine and pirenzepine on the manifestations of the gastropathy induced by nonsteroidal anti–inflammatory preparations] Karateev AE, et al. **Ter Arkh** 1997;69(5):67–9 (Eng. Abstr.) **(Rus)**
[When are we prescribing gastric antisecretory agents? (letter)] Campo de Juan M, et al. **Aten Primaria** 1996 Nov 15;18(8):467 **(Spa)**
[Ebrotidine] Elizalde JI. **Gastroenterol Hepatol** 1997 Feb; 20(2):65–7 (30 ref.) **(Spa)**
[Ebrotidine: an new alternative in peptic acid diseases (editorial)] Piqué JM. **Med Clin (Barc)** 1997 Mar 1; 108(8):301–3 **(Spa)**

TOXICITY

Acute toxicity studies of ebrotidine. Grau MT, et al. **Arzneimittelforschung** 1997 Apr;47(4A):490–1
Subacute toxicity of ebrotidine in rats and dogs. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):492–7
Chronic toxicity of ebrotidine in rats and dogs. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):498–504
Toxicity of ebrotidine on reproduction. Toxicity on fertility and general reproductive performance, embryo–fetal toxicity and peri– and postnatal toxicity. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):504–10
Genotoxicity studies on ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):511–4
Carcinogenicity studies on ebrotidine. Romero A, et al. **Arzneimittelforschung** 1997 Apr;47(4A):515–9
Effect of renal failure on neurotoxicity of ranitidine in rats. Nakada Y, et al. **Biol Pharm Bull** 1996 Feb;19(2):323–5
Influence of cimetidine on the toxicity and toxicokinetics of diazinon in the rat. Wu HX, et al. **Hum Exp Toxicol** 1996 May;15(5):391–5
Effects of histamine H2–antagonists on pre– and post–natal development in the rat. Freeman P, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S55–6
Study of the population of enterochromaffin–like cells in mouse gastric mucosa after long–term treatment with ebrotidine. Romero A, et al. **Toxicol Pathol** 1996 Mar–Apr; 24(2):160–5

URINE

Determination of ebrotidine and its metabolites in human urine by reversed–phase ion–pair high–performance liquid chromatography. Rozman E, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):107–15
Saturable urinary excretion kinetics of famotidine in the dog. Boom SP, et al. **J Pharm Pharmacol** 1997 Mar;49(3):288–92

HISTAMINE BINDING SITES see **RECEPTORS, HISTAMINE**

HISTAMINE LIBERATION see **HISTAMINE RELEASE**

HISTAMINE METHYLTRANSFERASE

ANTAGONISTS & INHIBITORS

Inhibition of histamine versus acetylcholine metabolism as a mechanism of tacrine activity. Morisset S, et al. **Eur J Pharmacol** 1996 Nov 7;315(1):R1–2
Effects of tele–methylhistamine and metoprine on plasma levels of histamine and on its elimination from cat plasma. Irman–Florjanc T. **Inflamm Res** 1997 Mar;46 Suppl 1:S89–90
Effects of two histamine–N–methyltransferase inhibitors, SKF 91488 and BW 301 U, in rodent antinociception. Malmberg–Aiello P, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1997 Mar; 355(3):354–60

GENETICS

[Regulation of gene expression of L–histidine decarboxylase and histamine N–methyl–transferase, and its relevance to the pathogenesis of bronchial asthma] Yamauchi K. **Nippon Rinsho** 1996 Feb;54(2):377–88 (34 ref.) (Eng. Abstr.) **(Jpn)**

METABOLISM

HMT regulates histamine–induced glycoconjugate secretion from human airways in vitro. Irokawa T, et al. **Respir Physiol** 1997 Jun;108(3):233–40

HISTAMINE-PRODUCING CELL-STIMULATING FACTOR see **GRANULOCYTE-MACROPHAGE COLONY-STIMULATING FACTOR**

HISTAMINE H1 RECEPTOR ANTAGONISTS see **HISTAMINE H1 ANTAGONISTS**

HISTAMINE H2 RECEPTOR ANTAGONISTS see **HISTAMINE H2 ANTAGONISTS**

HISTAMINE H1 RECEPTOR BLOCKADERS see **HISTAMINE H1 ANTAGONISTS**

HISTAMINE H2 RECEPTOR BLOCKADERS see **HISTAMINE H2 ANTAGONISTS**

HISTAMINE RECEPTORS see **RECEPTORS, HISTAMINE**

HISTAMINE H1 RECEPTORS see **RECEPTORS, HISTAMINE H1**

HISTAMINE H2 RECEPTORS see **RECEPTORS, HISTAMINE H2**

HISTAMINE H3 RECEPTORS see **RECEPTORS, HISTAMINE H3**

HISTAMINE RELEASE

see related
COMPOUND 48–80
Clinical evaluation of histamine release test: a novel method for identifying allergens from the whole blood of allergic patients. Mamiya S, et al. **Acta Otolaryngol Suppl (Stockh)** 1996;525:93–7
Mediator release is altered in immunotherapy–treated patients: a 4–year study. Dokic D, et al. **Allergy** 1996 Nov; 51(11):796–803
Ex vivo pharmacologic modulation of basophil histamine

release in asthmatic patients. Lebel B, et al. **Allergy** 1996 Jun;51(6):394–400

Enhancement of basophil histamine release by interleukin-3: reduced effect in atopic subjects. Miadonna A, et al. **Allergy** 1996 Aug;51(8):525–31

The indoor microfungus Trichoderma viride potentiates histamine release from human bronchoalveolar cells. Larsen FO, et al. **APMIS** 1996 Sep;104(9):673–9

Functional studies of skin mast cells in lichen planus. Zalewska A, et al. **Arch Dermatol Res** 1997 Apr; 289(5):261–4

Microplate assay for measurement of histamine release from mast cells. Price JA 3rd. **Biotechniques** 1997 May; 22(5):958–62

The effect of methamphetamine on histamine level and histidine decarboxylase activity in the rat brain. Ito C, et al. **Brain Res** 1996 Sep 23;734(1–2):98–102

Histamine release during cardiopulmonary bypass in neonates and infants. Withington DE, et al. **Can J Anaesth** 1997 Jun; 44(6):610–6

Medicinal foodstuffs. V. Moroheiya. (1): Absolute stereostructures of corchoionosides A, B, and C, histamine release inhibitors from the leaves of Vietnamese Corchorus olitorius L. (Tiliaceae). Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1997 Mar;45(3):464–9

Histamine is released in the wheal but not the flare following challenge of human skin in vivo: a microdialysis study. Petersen LJ, et al. **Clin Exp Allergy** 1997 Mar;27(3):284–95

Comparison of basophil histamine release, eosinophil cationic protein and non-specific airway responsiveness between mite-sensitive asthmatic and non-asthmatic children and non-allergic controls. Takeda K, et al. **Clin Exp Allergy** 1996 Aug;26(8):918–25

Histamine release in sepsis: a prospective, controlled, clinical study. Neugebauer E, et al. **Crit Care Med** 1996 Oct; 24(10):1670–7

Histamine-releasing factors. MacDonald SM. **Curr Opin Immunol** 1996 Dec;8(6):778–83 (34 ref.)

Histidine decarboxylase expression and histamine metabolism in gastric oxyntic mucosa during hypergastrinemia and carcinoid tumor formation. Kölby L, et al. **Endocrinology** 1996 Oct;137(10):4435–42

Somatostatin receptor subtype 2 mediates inhibition of gastrin and histamine secretion from human, dog, and rat antrum. Zaki M, et al. **Gastroenterology** 1996 Oct;111(4):919–24

Stem cell factor potentiates histamine secretion by multiple mechanisms, but does not affect tumour necrosis factor-alpha release from rat mast cells. Lin TJ, et al. **Immunology** 1996 Oct;89(2):301–7

Role of calcium influx & energy metabolism in histamine release by filarial antigen in Mastomys natalensis experimentally infected with Brugia malayi. Muralidhara P, et al. **Indian J Med Res** 1996 Apr;103:216–21

Comparison of histamine and serotonin release from rat peritoneal mast cells induced by nerve growth factor and compound 48/80. Ferjan I, et al. **Inflamm Res** 1997 Mar; 46 Suppl 1:S23–4

Spontaneous histamine release from mast cells and basophils is controlled by the cellular environment. Gibbs BF, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S25–6

Dissociation of histamine releasing activity and T -cell reactivity of allergen conjugated with synthetic polymer. Gushchin IS, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S67–8

Release of histamine and pancreastatin from isolated rat stomach ECL cells. Lindström E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S109–10

Platelet aggregation and platelet histamine release by immunological stimulation in atopic patients: modulation by nitric oxide. Masini E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S81–2

Several mechanisms for histamine release during laparoscopic cholecystectomy in human subjects: impact of plasma catecholamines for differentiation. Nies C, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S73–4

Histamine release in conventional versus minimally invasive surgery: results of a randomised trial in acute cholecystitis. Nies C, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S83–4

Increased cardiac mast cell density and mediator release in patients with dilated cardiomyopathy. Patella V, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S31–2

Relationship between basophil chemotaxis and histamine releasability to immunological stimulation. Vollrath IB, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S11–2

Induction of histamine release from non-immunized guinea pigs: a possible involvement of lectin-like factor(s) in pollinosis. Imamura T, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):161–5

Sulphidoleukotriene and histamine releasability in atopic patients. Sanz ML, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):305–6

Altered skin prick test reactivity and histamine release with extracts from pollen exposed to pollutants. Thomas P, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):264–5

Diamine oxidase-gold enzyme-affinity ultrastructural demonstration that human gut mucosal mast cells secrete histamine by piecemeal degranulation in vivo. Dvorak AM, et al. **J Allergy Clin Immunol** 1997 Jun;99(6 Pt 1):812–20

Origin of late phase histamine release. Naclerio RM, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):721–3

Histamine release in intact human skin by monocyte chemoattractant factor-1, RANTES, macrophage inflammatory protein-1 alpha, stem cell factor, anti-IgE, and codeine as determined by an ex vivo skin microdialysis technique. Petersen LJ, et al. **J Allergy Clin Immunol** 1996 Oct;98(4):790–6

Release of inflammatory mediators after cow's milk intake in a newborn with idiopathic pulmonary hemosiderosis. Torres MJ, et al. **J Allergy Clin Immunol** 1996 Dec;98(6 Pt 1):1120–3

Histamine excess symptoms in basophilic crisis of chronic myelogenous leukemia. Ishii N, et al. **J Med** 1995; 26(5–6):235–40

Effects of fatty acids on accumulation and secretion of histamine in RBL-2H3 cells and leukotriene release from peritoneal exudate cells isolated from Wistar rats. Yamada K, et al. **J Nutr Sci Vitaminol (Tokyo)** 1996 Aug; 42(4):301–11

Nitric oxide influences the release of histamine and glutamate in the rat hypothalamus. Prast H, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Dec; 354(6):731–5

Effects of non-steroidal antiallergic eyedrops on the complement-mediated histamine release from human cells. Goldschmidt P, et al. **Ocul Immunol Inflamm** 1997 Mar; 5(1):11–7

Canine leucocyte histamine release: response to antigen and to anti-IgE. Jackson HA, et al. **Vet Immunol Immunopathol** 1996 Oct;53(3–4):195–206

Detection of homocytotropic antibody in lambs infested with the louse, Bovicola ovis, using a basophil histamine-release assay. Pfeffer A, et al. **Vet Immunol Immunopathol** 1997 Jul;57(3–4):315–25

[Histamine liberation in vitro or histamine release (HR). Study of the threshold of positivity in allergy to hymenopteran venoms] Sabbah A, et al. **Allerg Immunol (Paris)** 1997 Apr;29(4):92–100 (Eng. Abstr.) **(Fre)**

[A novel diagnostic method for allergy "LUCICA HRT"] Yamakoshi M, et al. **Rinsho Byori** 1997 Feb;45(2):163–73 (Eng. Abstr.) **(Jpn)**

[Exocytotic hormone release] Kawasaki Y. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Supnl):1233–7 (15 ref.) **(Jpn)**

DRUG EFFECTS

Effect of lidocaine on histamine release and Ca2+ mobilization from mast cells and basophils. Yanagi H, et al. **Acta Anaesthesiol Scand** 1996 Oct;40(9):1138–44

Neuropeptide- and capsaicin-induced histamine release in skin monitored with the microdialysis technique. Huttunen M, et al. **Acta Derm Venereol** 1996 May;76(3):205–9

The fade of gastrin-stimulated gastric acid secretion in the rat is due to depletion of releasable mucosal histamine. Rønning K, et al. **Acta Physiol Scand** 1996 Aug; 157(4):487–91

The effect of ethanol, beer, and wine on histamine release from the dog stomach. Intorre L, et al. **Alcohol** 1996 Nov-Dec;13(6):547–51

Antiallergic properties of antihistamines. Negro-Alvarez JM, et al. **Allergol Immunopathol (Madr)** 1996 Jul-Aug; 24(4):177–83 (68 ref.)

Possible mechanisms of the concentration-dependent action of substance P to induce histamine release from rat peritoneal mast cells and the effect of extracellular calcium on mast-cell activation. Amano H, et al. **Allergy** 1997 Feb; 52(2):215–9

Effect of tea polyphenols on histamine release from rat basophilic leukemia (RBL-2H3) cells: the structure-inhibitory activity relationship. Matsuo N, et al. **Allergy** 1997 Jan;52(1):58–64

IgE-mediated basophil releasability is influenced by intrinsic factors and by IgE on the cell surface. Mita H, et al. **Allergy** 1995 Dec;50(12):952–8

Methacholine induces wheal-and-flare reactions in human skin but does not release histamine in vivo as assessed by the skin microdialysis technique. Petersen LJ, et al. **Allergy** 1995 Dec;50(12):976–80

Acetylcholine via muscarinic receptors inhibits histamine release from human isolated bronchi. Reinheimer T, et al. **Am J Respir Crit Care Med** 1997 Aug;156(2 Pt 1):389–95

Bilateral increases in histamine after unilateral nasal allergen challenge. Wagenmann M, et al. **Am J Respir Crit Care Med** 1997 Feb;155(2):426–31

Effect of H1-antihistamines on histamine release from dispersed canine cutaneous mast cells. García G, et al. **Am J Vet Res** 1997 Mar;58(3):293–7

The lack of histamine release with cisatracurium: a double-blind comparison with vecuronium. Doenicke A, et al. **Anesth Analg** 1997 Mar;84(3):623–8

Cardiovascular collapse resulting from thiopental-induced histamine release [letter; comment] Sprung J, et al. **Anesthesiology** 1997 Apr;86(4):1006–7. Comment on: Anesthesiology 1982 Jan;56(1):64–7.

Modulation of histamine release by sodium, potassium adenosine triphosphatase inhibition. Gentile DA, et al. **Ann Allergy Asthma Immunol** 1996 Oct;77(4):320–6

Epigallocatechin gallate-induced histamine release in patients with green tea-induced asthma. Shirai T, et al. **Ann Allergy Asthma Immunol** 1997 Jul;79(1):65–9

Effects of basophil-priming and stimulating cytokines on histamine release from isolated human skin mast cells. Nitschke M, et al. **Arch Dermatol Res** 1996 Jul;288(8):463–8

Effects of FK506 and cyclosporin A on proliferation, histamine release and phenotype of murine mast cells. Toyota N, et al. **Arch Dermatol Res** 1996 Jul;288(8):474–80

Inhibitory effect of 1 alpha,25-dihydroxyvitamin D3 on mast cell proliferation and A23187-induced histamine release, also accompanied by a decreased c-kit receptor. Toyota N, et al. **Arch Dermatol Res** 1996 Oct;288(11):709–15

Effect of an active metabolite of the antiallergic agent tazanolast on histamine release from rat mast cells. Kamei C, et al. **Arzneimittelforschung** 1997 Apr;47(4):390–4

Oxatomide and derivatives as inhibitors of mediator release from a mast cell model. Structure-activity relationships. Paulussen JJ, et al. **Arzneimittelforschung** 1996 May; 46(5):496–501

A peptide antagonist derived from platelet-derived growth factor induces histamine release from rat peritoneal mast cells. Fujii T, et al. **Biol Pharm Bull** 1997 Jan;20(1):79–81

Mechanism of Bradykinin-induced histamine release from rat peritoneal mast cells. Zhao QE, et al. **Biol Pharm Bull** 1996 Feb;19(2):237–40

Heterogeneity of signal transduction mechanisms in human basophils and human skin mast cells. II. Effects of 7-O-methyl-UCN-01, NPC 15437 and bryostatin 1 and 2, four protein kinase C-modulatory agents, on mediator release. Noll T, et al. **Biol Signals** 1997 Jan-Feb;6(1):1–10

Effect of oral antihistamine premedication on mivacurium-induced histamine release and side effects. Doenicke A, et al. **Br J Anaesth** 1996 Sep;77(3):421–3

Structure activity studies of mast cell activation and hypotension induced by neuropeptide Y (NPY), centrally truncated and C-terminal NPY analogues. Cross LJ, et al. **Br J Pharmacol** 1996 Jan;117(2):325–32

Preliminary characterization of the role of protein serine/threonine phosphatases in the regulation of human lung mast cell function. Peirce MJ, et al. **Br J Pharmacol** 1997 Jan;120(2):239–46

Adaptive cytoprotection against ethanol-induced small intestinal mucosal injury. Dinda PK, et al. **Can J Physiol Pharmacol** 1996 May;74(5):598–602

Development of bioactive functions in hydrangeae dulcis folium. VI. Syntheses of thunberginols A and F and their 3'-deoxy-derivatives using regiospecific lactonization of stilbene carboxylic acid: structures and inhibitory activity on histamine release of hydramacrophyllols A and B. Yoshikawa M, et al. **Chem Pharm Bull (Tokyo)** 1996 Oct; 44(10):1890–8

Inhibition of substance P-induced histamine release from rat peritoneal mast cells by ultraviolet light B irradiation: decreased intracellular calcium as a partial mechanism. Amano H, et al. **Clin Exp Allergy** 1997 Aug;27(8):966–71

Influence of bee venom immunotherapy on degranulation and leukotriene generation in human blood basophils [see comments] Jutel M, et al. **Clin Exp Allergy** 1996 Oct; 26(10):1112–8. Comment in: Clin Exp Allergy 1996 Oct;26(10):1101–4.

Further characterization of histamine releasing chemokines present in fractionated supernatants derived from human mononuclear cells. Kuna P, et al. **Clin Exp Allergy** 1996 Aug;26(8):926–33

No release of histamine and substance P in capsaicin-induced neurogenic inflammation in intact human skin in vivo: a microdialysis study. Petersen LJ, et al. **Clin Exp Allergy** 1997 Aug;27(8):957–65

Substance P activates the release of histamine from human skin mast cells through a pertussis toxin-sensitive and protein kinase C-dependent mechanism. Columbo M, et al. **Clin Immunol Immunopathol** 1996 Oct;81(1):68–73

Mechanism of acid secretory changes in rat stomach after damage by taurocholate: role of nitric oxide, histamine, and sensory neurons. Takeuchi K, et al. **Dig Dis Sci** 1997 Mar;42(3):645–53

Atracurium induced vasodilatation is not mediated by histamine in the isolated femoral artery of the rabbit. de Jong DM, et al. **Eur J Anaesthesiol** 1996 Jul;13(4):333–9

Hemodynamic effects and histamine release elicited by the selective adenosine A3 receptor agonist 2-Cl-IB-MECA in conscious rats. Van Schaick EA, et al. **Eur J Pharmacol** 1996 Jul 25;308(3):311–4

Defective inhibition of sodium on basophil histamine release in patients with allergic rhinitis and bronchial asthma. Tedeschi A, et al. **Eur Respir J** 1996 Oct;9(10):2070–6

Imidazole fungicides provoke histamine release from mast cells and induce airway contraction. Gietzen K, et al. **Exp Toxicol Pathol** 1996 Nov;48(6):529–31

Peptide YY inhibition of rat gastric enterochromaffin-like cell function. Zeng N, et al. **Gastroenterology** 1997 Jan; 112(1):127–35

On the mechanism of action of ethodin in inducing myometrium contractions. Rudolph MI, et al. **Gen Pharmacol** 1997 Mar;28(3):381–5

Inhibitory effects of caffeine on Ca2+ influx and histamine secretion independent of cAMP in rat peritoneal mast cells. Teraoka H, et al. **Gen Pharmacol** 1997 Feb;28(2):237–43

A comparison of the inhibitory effect of cromoline and nedocromil Na on histamine release from airway metachromatic cells and from peripheral basophils. Kivity S, et al. **Immunol Lett** 1996 Nov;53(2–3):147–51

Inhibitory effect of tea polyphenols on histamine and leukotriene B4 release from rat peritoneal exudate cells. Matsuo N, et al. **In Vitro Cell Dev Biol Anim** 1996 Jun; 32(6):340–4

Dietary modulation of fatty acid composition of mast cell phospholipids does not affect histamine release induced by compound 48/80. Engels W, et al. **Inflamm Res** 1997 May;

46(5):185–90
The antineoplastic drug vinorelbine activates non-immunological histamine release from rat mast cells. Estévez MD, et al. **Inflamm Res** 1997 Apr;46(4):119–24
Characteristics of the histamine release from hamster cheek pouch mast cells stimulated by lectins from Brazilian beans and concanavalin A. Ferreira RR, et al. **Inflamm Res** 1996 Sep;45(9):442–7
The modulatory effects of WE-14 on histamine release from rat peritoneal mast cells. Forsythe P, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S13–4
Histamine up-regulates the generation of nitric oxide, and nitric oxide down-regulates the release of histamine in cardiovascular preparations. Mannaioni PF, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S97–8
The effect of cetirizine and loratadine on codeine-induced histamine release in human skin in vivo assessed by cutaneous microdialysis. Perzanowska M, et al. **Inflamm Res** 1996 Sep;45(9):486–90
Release of histamine in whole blood by oxygen radicals: division between specific and unspecific processes. Poch B, et al. **Inflamm Res** 1996 Aug;45(8):428–33
Modulation of histamine release in the hypothalamus by nitric oxide. Prast H, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S41–2
Human recombinant histamine-releasing factor. MacDonald SM. **Int Arch Allergy Immunol** 1997 May-Jul; 113(1–3):187–9
Effect of beta-carotene on histamine release from human mast cells and monocytes. Schmutzler W, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1–3):335–6
Inhibition of allergen-induced histamine release from human basophils by cyclosporine A and FK-506. Sperr WR, et al. **Int Arch Allergy Immunol** 1997 Sep;114(1):68–73
Conformation-activity correlations for chemotactic tripeptide analogs incorporating dialkyl residues with linear and cyclic alkyl sidechains at position 2. Prasad S, et al. **Int J Pept Protein Res** 1996 Oct;48(4):312–8
Histamine-releasing activity in supernatants of mononuclear cells: contribution of monocyte chemotactic protein-1 activity compared with IgE-dependent activity. Pasmans SG, et al. **J Allergy Clin Immunol** 1996 Nov;98(5 Pt 1):962–8
Inhibitory effects of Korean folk medicine 'Hi-Chum' on histamine release from mast cells in vivo and in vitro. Kang BK, et al. **J Ethnopharmacol** 1997 Jul;57(2):73–9
Calcium ionophore-induced secretion from mast cells correlates with myosin light chain phosphorylation by protein kinase C. Ludowyke RI, et al. **J Immunol** 1996 Dec 1;157(11):5130–8
Histamine-release effectors from Angelica dahurica var. dahurica root. Kimura Y, et al. **J Nat Prod** 1997 Mar; 60(3):249–51
Interactions between neuronal histamine and halothane anesthesia in rats. Mammoto T, et al. **J Neurochem** 1997 Jul;69(1):406–11
Inhibitory effect of neuraminidase on SP-induced histamine release and TNF-alpha mRNA in rat mast cells: evidence of a receptor-independent mechanism. Cocchiara R, et al. **J Neuroimmunol** 1997 May;75(1–2):9–18
The in vitro and in vivo ocular pharmacology of olopatadine (AL-4943A), an effective anti-allergic/antihistaminic agent. Yanni JM, et al. **J Ocul Pharmacol Ther** 1996 Winter; 12(4):389–400
Effect of a chymotrypsin-like inhibitor, TPCK, on histamine release from cultured human mast cells. Yanagida M, et al. **J Pharm Pharmacol** 1997 May;49(5):537–41
Somatostatin inhibition of acid and histamine release by activation of somatostatin receptor subtype 2 receptors in rats. Aurang K, et al. **J Pharmacol Exp Ther** 1997 Apr; 281(1):245–52
Secretin inhibits canine gastric acid secretion in response to pentagastrin by modulating gastric histamine release. Gerber JG, et al. **J Pharmacol Exp Ther** 1996 Nov; 279(2):718–23
Effects of dopamine antagonists on neuronal histamine release in the striatum of rats subjected to acute and chronic treatments with methamphetamine. Ito C, et al. **J Pharmacol Exp Ther** 1996 Oct;279(1):271–6
Effects of malathion metabolites on degranulation of and mediator release by human and rat basophilic cells. Xiong S, et al. **J Toxicol Environ Health** 1997 Jun 6;51(2):159–75
Enhancement by morphine of radiographic contrast media-induced histamine release in rat peritoneal mast cells. Sueyasu M, et al. **Jpn J Pharmacol** 1997 Jun; 74(2):217–20
Effect of interleukin-1 receptor antagonist (IL-1RA) on histamine and serotonin release by rat basophilic leukemia cells (RBL-2H3) and peritoneal mast cells. Conti P, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):61–8
A factor secreted by human embryo stimulates cytokine release by uterine mast cell. Cocchiara R, et al. **Mol Hum Reprod** 1996 Oct;2(10):781–91
Exogenous but not endogenous substance P releases histamine from isolated human skin fragments. Tausk F, et al. **Neuropeptides** 1995 Dec;29(6):351–5
Effects of gastrin on the histamine-secretory and proliferative activity of cultured carcinoid cells derived from the stomach of the rodent Mastomys natalensis. Takeno S, et al. **Pathol Int** 1997 Feb-Mar;47(2–3):95–102
Induction of histamine release from rat mast cells by bradykinin analogues. Vietinghoff G, et al. **Peptides** 1996; 17(8):1467–70
The effect of methamphetamine on histamine release in the rat hypothalamus. Ito C, et al. **Psychiatry Clin Neurosci** 1997 Apr;51(2):79–81
Gastrin-evoked secretion of pancreastatin and histamine from ECL cells and of acid from parietal cells in isolated, vascularly perfused rat stomach. Effects of isobutyl methylxanthin and alpha-fluoromethylhistidine. Chen D, et al. **Regul Pept** 1996 Sep 9;65(2):133–8
Gastrin stimulates histamine release from the isolated pig stomach. Mårvik R, et al. **Scand J Gastroenterol** 1997 Jan; 32(1):2–5
Bombesin inhibits histamine release from the rat oxyntic mucosa by a somatostatin-dependent mechanism. Sandvik AK, et al. **Scand J Gastroenterol** 1997 May;32(5):427–32
Modulation of pentagastrin-induced histamine release by histamine H3 receptors in the dog. Soldani G, et al. **Scand J Gastroenterol** 1996 Jul;31(7):631–8
Heterogeneity of human skin mast cells and human basophils. I. Pharmacological experiments with activators and inhibitors of protein kinase C. Amon U, et al. **Skin Pharmacol** 1996;9(3):211–20
The effects of cromakalim on the mediator releases from guinea pig lung mast cell activated by specific antigen-antibody reactions. Ro JY, et al. **Yonsei Med J** 1996 Oct;37(5):325–38
[Histamine liberation (or histamine release HR): study of the positivity threshold in hymenoptera venom allergy] Minkhar M, et al. **Allerg Immunol (Paris)** 1996 Nov; 28(9):313–6 (Eng. Abstr.) **(Fre)**
[Cisatracurium—is the stereoisomer an "ideal" relaxant? Histamine liberation and tryptase determination after bolus administration of cistracurium: a comparison with vecuronium] Soukup J, et al. **Anaesthesist** 1997 Jun; 46(6):486–91 (Eng. Abstr.) **(Ger)**
[Effects of SDZ ISQ 844, a cyclic nucleotide phosphodiesterase isozyme type III/IV inhibitor, on the release of histamine from human peripheral leukocytes] Horikoshi S, et al. **Arerugi** 1997 May;46(5):426–32 (Eng. Abstr.) **(Jpn)**
[Effect of dibucaine and lidocaine on histamine release from mouse bone marrow-derived cultured mast cells] Yanagi H, et al. **Masui** 1997 Jan;46(1):16–22 (Eng. Abstr.) **(Jpn)**
[On a mechanism of histamine-liberating effect of radiocontrast media] Sergeev PV, et al. **Biull Eksp Biol Med** 1996 Nov;122(11):512–7 **(Rus)**
[The mechanism of histamine liberation from rat mast cells under the action of x-ray contrast media] Napolov IuK. **Eksp Klin Farmakol** 1997 Jan-Feb;60(1):53–5 (Eng. Abstr.) **(Rus)**

GENETICS

Genetic influence on immune responses to an N. brasiliensis infection: surface expression and occupancy of IgE receptors and histamine releasability of mast cells. Chen XJ, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S17–8

IMMUNOLOGY

TGF-beta1 inhibits the release of histamine and tumor necrosis factor-alpha from mast cells through an autocrine pathway. Bissonnette EY, et al. **Am J Respir Cell Mol Biol** 1997 Mar;16(3):275–82
Interferon-gamma promotes the survival and Fc epsilon RI-mediated histamine release in cultured human mast cells. Yanagida M, et al. **Immunology** 1996 Dec; 89(4):547–52
Cytokine priming of human basophils: description of allergen 'nonreleasers'. Black KM, et al. **Int Arch Allergy Immunol** 1996 Oct;111(2):142–51
Late allergic airway response to segmental bronchopulmonary provocation in allergic subjects is related to peripheral blood basophil histamine release. Jarjour NN, et al. **J Allergy Clin Immunol** 1997 Jan;99(1 Pt 1):87–93
Antigen-specific sulphidoleukotriene production and histamine release in pollinic patients. Ferrer M, et al. **J Investig Allergol Clin Immunol** 1996 Sep-Oct;6(5):271–7
Specific immunotherapy in pollinosis: I. Valuation of certain cytoimmunological indicators over the course of four years of immunotherapy in pollinosis. Zieliński AE. **J Investig Allergol Clin Immunol** 1996 Sep-Oct;6(5):307–14
Histamine releasing cells of the newborn. Mast cells from the umbilical cord matrix and basophils from cord blood. Damsgaard TE, et al. **Pediatr Allergy Immunol** 1996 May; 7(2):83–90
Use of a new glass microfibre histamine release method to study the modulation of the host response in human schistosomiasis mansoni. Individuals with different degrees of exposure to the disease show differing antibody biological function. Satti MZ, et al. **Trop Med Int Health** 1996 Oct;1(5):655–66

PHYSIOLOGY

Reciprocal inhibitory paracrine pathways link histamine and somatostatin secretion in the fundus of the stomach. Vuyyuru L, et al. **Am J Physiol** 1997 Jul;273(1 Pt 1):G106–11
Vesicular transport of histamine in stimulated human basophils. Dvorak AM, et al. **Blood** 1996 Dec 1; 88(11):4090–101
Dual regulation of the Na+/H(+)-exchange in rat peritoneal mast cells: role of protein kinase C and calcium on pHi regulation and histamine release. Friis UG, et al. **Br J Pharmacol** 1996 Jul;118(6):1327–34
Characteristics of histamine release from cultured human mast cells. Igarashi Y, et al. **Clin Exp Allergy** 1996 May; 26(5):597–602
Helicobacter pylori lipopolysaccharide stimulates histamine release and DNA synthesis in rat enterochromaffin-like cells. Kidd M, et al. **Gastroenterology** 1997 Oct; 113(4):1110–7
The gastrin-histamine sequence [letter; comment] Waldum HL, et al. **Gastroenterology** 1996 Sep;111(3):838–9. Comment on: Gastroenterology 1996 Mar;110(3):926–38.
Inhibitory effect of tyrosine kinase inhibitors on antigen-induced tracheal contraction and histamine release in guinea pigs. Iwagoe H, et al. **Int Arch Allergy Immunol** 1996 Nov;111(3):291–8
Eosinophil cationic protein and histamine after intestinal challenge in patients with cow's milk intolerance. Bengtsson U, et al. **J Allergy Clin Immunol** 1997 Aug; 100(2):216–21
Platelet-activating factor induces histamine release from human skin mast cells in vivo, which is reduced by local nerve blockade. Petersen LJ, et al. **J Allergy Clin Immunol** 1997 May;99(5):640–7
Preliminary characterization of diacylglycerol generation in human basophils: temporal relationship to histamine release and resolution of degranulation. Oriente A, et al. **J Leukoc Biol** 1997 May;61(5):637–42
Mast cell histamine in gastric secretion--a study on the isolated portion of a guinea pig stomach. Stanovnik L, et al. **Pflugers Arch** 1996;431(6 Suppl 2):R219–20
Possible relationship between histamine and nitric oxide release in the postischemic flow response following mesenteric ischemia of different durations. Szabó A, et al. **Shock** 1997 May;7(5):376–82

RADIATION EFFECTS

Inhibition of substance P-induced histamine release from rat peritoneal mast cells by ultraviolet light B irradiation: decreased intracellular calcium as a partial mechanism. Amano H, et al. **Clin Exp Allergy** 1997 Aug;27(8):966–71

HISTIDASE

ANTAGONISTS & INHIBITORS

On the nature of the irreversible inhibition of histidine ammonia lyase by cysteine and dioxygen. Weber K, et al. **Bioorg Med Chem** 1996 Jul;4(7):1001–6

CHEMISTRY

Enzymatic catalysis by Friedel-Crafts-type reactions. Rétey J. **Naturwissenschaften** 1996 Oct;83(10):439–47 (40 ref.)

METABOLISM

Pharmacokinetics of stable isotopically labeled L-histidine in humans and the assessment of in vivo histidine ammonia lyase activities. Furuta T, et al. **Drug Metab Dispos** 1996 Jan;24(1):49–54
Enzymatic catalysis by Friedel-Crafts-type reactions. Rétey J. **Naturwissenschaften** 1996 Oct;83(10):439–47 (40 ref.)

HISTIDINE

Identification of the histidyl residue obligatory for the catalytic activity of the human H+/peptide cotransporters PEPT1 and PEPT2. Fei YJ, et al. **Biochemistry** 1997 Jan 14;36(2):452–60
Different manganese binding sites in photosystem II probed by selective chemical modification of histidyl and carboxylic acid residues. Magnuson A, et al. **Biochemistry** 1997 Mar 18;36(11):3254–61
Mutagenesis of the histidine ligand in human lactoferrin: iron binding properties and crystal structure of the histidine-253-->methionine mutant. Nicholson H, et al. **Biochemistry** 1997 Jan 14;36(2):341–6
Evidence supporting a role for histidine-235 in cation binding to human 3-hydroxy-3-methylglutaryl-CoA lyase. Roberts JR, et al. **Biochemistry** 1997 Jun 17;36(24):7594–600
Histidine-containing dipeptides as endogenous regulators of the activity of sarcoplasmic reticulum Ca-release channels. Batrukova MA, et al. **Biochim Biophys Acta** 1997 Feb 21; 1324(1):142–50
One-step purification of histidine-tagged cytochrome bo3 from Escherichia coli and demonstration that associated quinone is not required for the structural integrity of the oxidase. Rumbley JN, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):131–42
His166 is critical for active-site proton transfer and phototaxis signaling by sensory rhodopsin I. Zhang XN, et al. **Biophys J** 1997 Sep;73(3):1516–23
Enhanced field strength and resolution in gel electrophoresis upon substitution of buffer by histidine at its isoelectric point. Chen N, et al. **Electrophoresis** 1996 Apr; 17(4):699–703
Mutational studies on conserved histidine residues in the chlorophyll-binding protein CP43 of photosystem II. Manna P, et al. **Eur J Biochem** 1997 Jul 15;247(2):666–72
Roles of histidine-103 and tyrosine-235 in the function of the prolipoprotein diacylglyceryl transferase of Escherichia

coli. Sankaran K, et al. **J Bacteriol** 1997 May;179(9):2944–8
Purification and functional reconstitution with GTP-binding regulatory proteins of hexahistidine-tagged muscarinic acetylcholine receptors (m2 subtype). Hayashi MK, et al. **J Biochem (Tokyo)** 1996 Dec;120(6):1232–8
The RecD subunit of the RecBCD enzyme from Escherichia coli is a single-stranded DNA-dependent ATPase. Chen HW, et al. **J Biol Chem** 1997 Apr 11;272(15):10072–9
His-8 lowers the pKa of the essential Cys-12 residue of the ArsC arsenate reductase of plasmid R773. Gladysheva T, et al. **J Biol Chem** 1996 Dec 27;271(52):33256–60
Structures of active site histidine mutants of IIIGlc, a major signal-transducing protein in Escherichia coli. Effects on the mechanisms of regulation and phosphoryl transfer. Pelton JG, et al. **J Biol Chem** 1996 Dec 27;271(52):33446–56
Strategies for the depyrogenation of contaminated immunoglobulin G solutions by histidine-immobilized hollow fiber membrane. Legallais C, et al. **J Chromatogr B Biomed Appl** 1997 Mar 28;691(1):33–41
A single nucleotide change in the E protein gene of dengue virus 2 Mexican strain affects neurovirulence in mice. Sánchez IJ, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2541–5
Tension in haemoglobin revealed by Fe-His(F8) bond rupture in the fully liganded T-state. Paoli M, et al. **J Mol Biol** 1997 Aug 15;271(2):161–7
Histidine ligand affinity chromatography. Vijayalakshmi MA. **Mol Biotechnol** 1996 Dec;6(3):347–57
Mutagenesis of endopolygalacturonase from Fusarium moniliforme: histidine residue 234 is critical for enzymatic and macerating activities and not for binding to polygalacturonase-inhibiting protein (PGIP). Caprari C, et al. **Mol Plant Microbe Interact** 1996 Sep;9(7):617–24
Identification of a novel bond between a histidine and the essential tyrosine in catalase HPII of Escherichia coli. Bravo J, et al. **Protein Sci** 1997 May;6(5):1016–23

ADMINISTRATION & DOSAGE

Increased histidine preference during specific alteration of rhythm of environmental temperature stress in rats. Kondoh T, et al. **Behav Neurosci** 1996 Oct;110(5):1187–92

ANALOGS & DERIVATIVES

L-histidine methyl ester dihydrochloride. Vilchiz VH, et al. **Acta Crystallogr C** 1996 Mar 15;52 (Pt 3):696–8
Early copper histidine therapy in classic Menkes disease [letter; comment] Sarkar B. **Ann Neurol** 1997 Jan; 41(1):134–6. Comment on: Ann Neurol 1995 Dec;38(6):921–8.
Zinc-bis-histidinate preserves cardiac function in a porcine model of cardioplegic arrest. Powell SR, et al. **Ann Thorac Surg** 1997 Jul;64(1):73–80
3-Phosphohistidine cannot replace phosphotyrosine in high-affinity binding to phosphotyrosine binding or Src homology 2 domains. Senderowicz L, et al. **Biochemistry** 1997 Aug 26;36(34):10538–44
Ca2+-dependent membrane bound protein fraction from rabbit gastric mucosa contains a protein whose histidyl residue is phosphorylated. Urushidani T, et al. **Biochim Biophys Acta** 1997 Mar 27;1356(1):71–83
Studies on the biosynthesis of ovothiol A. Identification of 4-mercaptohistidine as an intermediate. Steenkamp DJ, et al. **Eur J Biochem** 1996 Dec 15;242(3):557–66
Identification of N-acetylaspartate in the lens of the vertebrate eye: a new model for the investigation of the function of N-acetylated amino acids in vertebrates [letter] Baslow MH, et al. **Exp Eye Res** 1997 Feb;64(2):283–6
A review of phylogenetic and metabolic relationships between the acylamino acids, N-acetyl-L-aspartic acid and N-acetyl-L-histidine, in the vertebrate nervous system. Baslow MH. **J Neurochem** 1997 Apr;68(4):1335–44 (50 ref.)
Mutation induction and mutation spectra of S. typhimurium TA100 after exposure to isohistidines. Zöhrer E, et al. **Mutat Res** 1996 Sep 23;356(2):155–61
Synthesis and characterization of histidine-phosphorylated peptides. Medzihradszky KF, et al. **Protein Sci** 1997 Jul; 6(7):1405–11

ANALYSIS

Effect of histidine-containing dipeptides on isolated heart under ischemia/reperfusion. Alabovsky VV, et al. **Biochemistry (Mosc)** 1997 Jan;62(1):77–87
Chemical modification of an alpha 3-fucosyltransferase; definition of amino acid residues essential for enzyme activity. Britten CJ, et al. **Biochim Biophys Acta** 1997 Feb 11;1334(1):57–64
Identification of histidine 31 and cysteine 95 in the active site of self-incompatibility associated S6-RNase in Nicotiana alata. Ishimizu T, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):1007–13
Identification of the reactive histidine of cucumisin, a plant serine protease: modification with peptidyl chloromethyl ketone derivative of peptide substrate. Yonezawa H, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):917–20
Multipoint binding in metal-affinity chromatography II. Effect of pH and imidazole on chromatographic retention of engineered histidine-containing cytochromes c. Johnson RD, et al. **J Chromatogr A** 1996 Feb 23;725(2):225–35
High-performance liquid chromatographic determination of imidazole dipeptides, histidine, 1-methylhistidine and 3-methylhistidine in equine and camel muscle and individual muscle fibres. Dunnett M, et al. **J Chromatogr B Biomed Appl** 1997 Jan 10;688(1):47–55
Quantitative analysis of histidine and cis and trans isomers of urocanic acid by high-performance liquid chromatography: a new assay method and its application. Takahashi M, et al. **J Chromatogr B Biomed Appl** 1997 Jan 24;688(2):197–203
HCN, a triple-resonance NMR technique for selective observation of histidine and tryptophan side chains in 13C/15N-labeled proteins. Sudmeier JL, et al. **J Magn Reson B** 1996 Dec;113(3):236–47
Towards membrane protein design: pH-sensitive topology of histidine-containing polypeptides. Bechinger B. **J Mol Biol** 1996 Nov 15;263(5):768–75
Localization of histidine residues relevant for the binding of alpha-bungarotoxin to the acetylcholine receptor alpha-subunit in V8-proteolytic fragments. Lacorazza HD, et al. **Neurochem Int** 1996 May-Jun;28(5–6):557–67

BIOSYNTHESIS

Evolutionary analysis of the hisCGABdFDEHI gene cluster from the archaeon Sulfolobus solfataricus P2. Charlebois RL, et al. **J Bacteriol** 1997 Jul;179(13):4429–32
Histidine biosynthetic pathway and genes: structure, regulation, and evolution. Alifano P, et al. **Microbiol Rev** 1996 Mar;60(1):44–69 (297 ref.)

CHEMISTRY

Chloramphenicol resistance interferes with purification of histidine-tagged fusion proteins from recombinant Escherichia coli. Oswald T, et al. **Anal Biochem** 1996 May 1;236(2):357–8
Epitope mapping using histidine-tagged protein fragments: application to Escherichia coli RNA polymerase sigma 70. Rao L, et al. **Anal Biochem** 1996 Oct 15;241(2):173–9
Histidine 229 in protein L2 is apparently essential for 50S peptidyl transferase activity. Cooperman BS, et al. **Biochem Cell Biol** 1995 Nov-Dec;73(11–12):1087–94 (43 ref.)
Residue accessibility, hydrogen bonding, and molecular recognition: metal-chelate probing of active site histidines in chymotrypsins. Berna PP, et al. **Biochemistry** 1997 Jun 10;36(23):6896–905
Regulation of oxidation-reduction potentials through redox-linked ionization in the Y98H mutant of the Desulfovibrio vulgaris [Hildenborough] flavodoxin: direct proton nuclear magnetic resonance spectroscopic evidence for the redox-dependent shift in the pKa of Histidine-98. Chang FC, et al. **Biochemistry** 1997 Jul 22;36(29):9013–21
How enzymes control the reactivity of adenosylcobalamin: effect on coenzyme binding and catalysis of mutations in the conserved histidine-aspartate pair of glutamate mutase. Chen HP, et al. **Biochemistry** 1997 Jun 24;36(25):7884–9
Identification by NMR of the binding surface for the histidine-containing phosphocarrier protein HPr on the N-terminal domain of enzyme I of the Escherichia coli phosphotransferase system. Garrett DS, et al. **Biochemistry** 1997 Apr 15;36(15):4393–8
Ion-pair and charged hydrogen-bond interactions between histidine and aspartate in a peptide helix. Huyghues-Despointes BM, et al. **Biochemistry** 1997 Feb 25;36(8):1965–70
Identification of histidine as an axial ligand to P700+. Mac M, et al. **Biochemistry** 1996 Oct 15;35(41):13288–93
Crystal structure of a polyhistidine-tagged recombinant catalytic subunit of cAMP-dependent protein kinase complexed with the peptide inhibitor PKI(5–24) and adenosine. Narayana N, et al. **Biochemistry** 1997 Apr 15; 36(15):4438–48
Characterization of two important histidine residues in the active site of xylanase A from Streptomyces lividans, a family 10 glycanase. Roberge M, et al. **Biochemistry** 1997 Jun 24;36(25):7769–75
Active site structure in cytochrome c peroxidase and myoglobin mutants: effects of altered hydrogen bonding to the proximal histidine. Sinclair R, et al. **Biochemistry** 1996 Nov 26;35(47):15120–8
Contribution of surface histidyl residues in the alpha-chain to the Bohr effect of human normal adult hemoglobin: roles of global electrostatic effects. Sun DP, et al. **Biochemistry** 1997 Jun 3;36(22):6663–73
Use of 1H NMR spectroscopy and computer simulations To analyze histidine pKa changes in a protein tyrosine phosphatase: experimental and theoretical determination of electrostatic properties in a small protein. Tishmack PA, et al. **Biochemistry** 1997 Sep 30;36(39):11984–94
Ribonuclease T1 is active when both catalytic histidines are replaced by aspartate. Landt O, et al. **Biol Chem** 1997 Jun; 378(6):553–8
Interaction of the vanadyl (IV) cation with carnosine and related ligands. Ferrer EG, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1–2):79–87
Removal of endotoxin from aqueous solutions by affinity membrane. Guo W, et al. **Biomed Chromatogr** 1997 May-Jun;11(3):164–6
Purification of (His)6EcoRV [recombinant restriction endonuclease EcoRV fused to a (His)6 affinity domain] by metal-chelate affinity chromatography. Oswald T, et al. **Biotechnol Appl Biochem** 1997 Apr;25 (Pt 2):109–15
A new Cys2/His2 zinc finger gene, rKr1, expressed in oligodendrocytes and neurons. Pott U, et al. **Brain Res Mol Brain Res** 1996 May;38(1):109–21
Photo-oxidation of histidine as a probe for aminoterminal conformational changes during fibrinogen-fibrin conversion. Henschen-Edman AH. **Cell Mol Life Sci** 1997 Jan;53(1):29–33
HB Gouda [alpha 72(EF1)His-->Gln], a new silent alpha chain variant. Giordano PC, et al. **Hemoglobin** 1996 Feb; 20(1):21–9
Specific cleavage of histidine-containing peptides by copper(II). Allen G, et al. **Int J Pept Protein Res** 1996 Sep;48(3):265–73
Vitamin K2 (menaquinone) biosynthesis in Escherichia coli: evidence for the presence of an essential histidine residue in o-succinylbenzoyl coenzyme A synthetase. Bhattacharyya DK, et al. **J Bacteriol** 1997 Oct; 179(19):6061–5
Effects of substitutions of the conserved histidine residues in human gamma-glutamyl transpeptidase. Ikeda Y, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1166–70
Chemical modification of histidyl residues in D-amino acid oxidase from Rhodotorula gracilis. Ramón F, et al. **J Biochem (Tokyo)** 1995 Nov;118(5):911–6
Kinetic and spectroscopic analyses of mutants of a conserved histidine in the metallophosphatases calcineurin and lambda protein phosphatase. Mertz P, et al. **J Biol Chem** 1997 Aug 22;272(34):21296–302
Histidine 225, a residue of the NhaA-Na+/H+ antiporter of Escherichia coli is exposed and faces the cell exterior. Olami Y, et al. **J Biol Chem** 1997 Jan 17;272(3):1761–8
X-ray studies on crystalline complexes involving amino acids and peptides. XXXI. Effect of chirality on ionization state, stoichiometry and aggregation in the complexes of oxalic acid with L- and DL-histidine. Prabu MM, et al. **J Biomol Struct Dyn** 1996 Dec;14(3):387–92
Interaction of human immunoglobulin G with l-histidine immobilized onto poly(ethylene vinyl alcohol) hollow-fiber membranes. Haupt K, et al. **J Chromatogr B Biomed Appl** 1995 Dec 1;674(1):13–21
Design and synthesis of histidine analogues of folic acid and methotrexate as potential folylpolyglutamate synthetase inhibitors. Mao Z, et al. **J Med Chem** 1996 Oct 11; 39(21):4340–4
The tryptophan/histidine interaction in alpha-helices [published erratum appears in J Mol Biol 1997 Jul 18;270(3):535] Fernández-Recio J, et al. **J Mol Biol** 1997 Mar 21;267(1):184–97
A histidine variant of yeast iso-1-cytochrome c that strongly affects the energetics of the denatured state. Godbole S, et al. **J Mol Biol** 1997 May 23;268(5):816–21
Histidine residues in alpha-crystallin are not all available for chemical modification and acid-base titration. Bera S, et al. **J Protein Chem** 1996 Aug;15(6):585–90
Woodward's reagent K reacts with histidine and cysteine residues in Escherichia coli and Saccharomyces cerevisiae phosphoenolpyruvate carboxykinases. Bustos P, et al. **J Protein Chem** 1996 Jul;15(5):467–72
Bacterial expression, purification, and potential use of His-tagged GAL4 fusion proteins. Schmitz ML, et al. **Methods Mol Biol** 1997;63:129–37
A test of the role of the proximal histidines in the Perutz model for cooperativity in haemoglobin. Barrick D, et al. **Nat Struct Biol** 1997 Jan;4(1):78–83
2,3-Butanedione inactivates the [3H]nitrendipine binding sites, whereas diethylpyrocarbonate does not. Costa B, et al. **Neurochem Int** 1996 Dec;29(6):623–7
Involvement of histidine 134 in the binding of alpha-bungarotoxin to the nicotinic acetylcholine receptor. Venera GD, et al. **Neurochem Int** 1997 Jul;31(1):151–7
A European family with histidine 58 transthyretin mutation in familial amyloid polyneuropathy. Goebel HH, et al. **Neuromuscul Disord** 1997 Jun;7(4):229–30
Effects of polyaminocarboxylate metal chelators on iron-thiolate induced oxidation of methionine- and histidine-containing peptides. Zhao F, et al. **Pharm Res** 1996 Jun;13(6):931–8
3-Hydroxy-3-methylglutaryl-coenzyme A reductase of Haloferax volcanii: role of histidine 398 and attenuation of activity by introduction of negative charge at position 404. Bischoff KM, et al. **Protein Sci** 1997 Jan;6(1):156–61
The active site histidines of creatine kinase. A critical role of His 61 situated on a flexible loop. Forstner M, et al. **Protein Sci** 1997 Feb;6(2):331–9
Characterization of a buried neutral histidine residue in Bacillus circulans xylanase: NMR assignments, pH titration, and hydrogen exchange. Plesniak LA, et al. **Protein Sci** 1996 Nov;5(11):2319–28
Effect of nucleotide substrate binding on the pKa of catalytic residues in barnase. Gordon-Beresford RM, et al. **Proteins** 1996 Jun;25(2):180–94
Chemical modification of histidine and lysine residues of myotoxic phospholipases A2 isolated from Bothrops asper and Bothrops godmani snake venoms: effects on enzymatic and pharmacological properties. Díaz-Oreiro C, et al. **Toxicon** 1997 Feb;35(2):241–52
Biological fate of sulphur mustard: identification of valine and histidine adducts in haemoglobin from casualties of sulphur mustard poisoning. Black RM, et al. **Xenobiotica** 1997 May;27(5):499–512
[Modification of the histidine in rat skeletal muscle deaminase by diethylpyrocarbonate] Mardanian SS, et al. **Biokhimiia** 1996 Oct;61(10):1751–7 (Eng. Abstr.) **(Rus)**
[Specificity and time of the appearance of His+ reversions induced by histidine starvation in Salmonella typhimurium]

Gizatullin FSh, et al. **Genetika** 1996 Oct;32(10):1333–40 (Eng. Abstr.) **(Rus)**

DEFICIENCY

Translational and pretranslational regulation of protein synthesis by amino acid availability in primary cultures of rat hepatocytes. Kimball SR, et al. **Int J Biochem Cell Biol** 1996 Mar;28(3):285–94

GENETICS

Effect of site-directed mutagenesis of His373 of yeast enolase on some of its physical and enzymatic properties. Brewer JM, et al. **Biochim Biophys Acta** 1997 Jun 20;1340(1):88–96

Histidine at position 5 is the specificity "switch" between two parathyroid hormone receptor subtypes. Behar V, et al. **Endocrinology** 1996 Oct;137(10):4217–24

Mutations that render the promoter of the histidine operon of Salmonella typhimurium insensitive to nutrient-rich medium repression and amino acid downshift. Da Costa XJ, et al. **J Bacteriol** 1997 Aug;179(16):5211–7

Role of histidine 46 in the hydrolysis and the reverse transphosphorylation reaction of RNase Rh from Rhizopus niveus. Irie M, et al. **J Biochem (Tokyo)** 1997 May; 121(5):849–53

Rescue of His-42 –> Ala horseradish peroxidase by a Phe-41 –> His mutation. Engineering of a surrogate catalytic histidine. Savenkova MI, et al. **J Biol Chem** 1996 Oct 4;271(40):24598–603

Characterization of recombinant soybean leghemoglobin a and apolar distal histidine mutants. Hargrove MS, et al. **J Mol Biol** 1997 Mar 14;266(5):1032–42

METABOLISM

Expression and purification of 6xHis-tagged DNA binding domains of functional ecdysteroid receptor from drosophila melanogaster. Rusin A, et al. **Acta Biochim Pol** 1996; 43(4):611–21

Metal-catalyzed photooxidation of histidine in human growth hormone. Chang SH, et al. **Anal Biochem** 1997 Jan 15; 244(2):221–27

The consequences of replacing histidine 356 in isocitrate lyase from Escherichia coli. Rehman A, et al. **Arch Biochem Biophys** 1996 Dec 15;336(2):309–15

Identification of a histidine residue essential for enzymatic activity of group B streptococcal hyaluronate lyase. Lin B, et al. **Biochem Biophys Res Commun** 1997 Feb 13; 231(2):379–82

Histidine modification of human serum butyrylcholinesterase. Cengiz D, et al. **Biochem Mol Med** 1997 Jun;61(1):52–7

Crystal structure analysis of the activation of histidine by Thermus thermophilus histidyl-tRNA synthetase. Aberg A, et al. **Biochemistry** 1997 Mar 18;36(11):3084–94

Carboxylate ions are strong allosteric ligands for the HisB10 sites of the R-state insulin hexamer. Huang ST, et al. **Biochemistry** 1997 Aug 12;36(32):9878–88

Rapid kinetic studies and structural determination of a cysteine proteinase mutant imply that residue 158 in caricain has a major effect upon the ability of the active site histidine to protonate a dipyridyl probe. Katerelos NA, et al. **Biochemistry** 1996 Nov 26;35(47):14763–72

Histidine-132 does not stabilize a distal water ligand and is not an important residue for the enzyme activity in heme oxygenase-1. Matera KM, et al. **Biochemistry** 1997 Apr 22;36(16):4909–15

Rescue of the horseradish peroxidase His-170–>Ala mutant activity by imidazole: importance of proximal ligand tethering. Newmyer SL, et al. **Biochemistry** 1996 Oct 1; 35(39):12788–95

Notomastus lobatus chloroperoxidase and Amphitrite ornata dehaloperoxidase both contain histidine as their proximal heme iron ligand. Roach MP, et al. **Biochemistry** 1997 Feb 25;36(8):2197–202

Site-directed mutagenesis of histidine 238 in mouse adenosine deaminase: substitution of histidine 238 does not impede hydroxylate formation. Sideraki V, et al. **Biochemistry** 1996 Nov 26;35(47):15019–28

Histidine-tryptophan interactions in T4 lysozyme: 'anomalous' pH dependence of fluorescence. Van Gilst M, et al. **Biophys Chem** 1996 Dec 10;63(1):17–25

Specific detection of his-tagged proteins with recombinant anti-His tag scFv-phosphatase or scFv-phage fusions. Lindner P, et al. **Biotechniques** 1997 Jan;22(1):140–9

Mechanism of aminoglycoside 3'-phosphotransferase type IIIa: His188 is not a phosphate-accepting residue. Thompson PR, et al. **Chem Biol** 1996 Sep;3(9):747–55

Histidine-like immunoreactivity in the rat retina. Kusakari Y, et al. **Curr Eye Res** 1997 Jun;16(6):600–4

Ribonuclease A mutant His119 Asn: the role of histidine in catalysis. Panov KI, et al. **FEBS Lett** 1996 Nov 25; 398(1):57–60

Identification of the histidine residues involved in substrate recognition by a rat H+/peptide cotransporter, PEPT1. Terada T, et al. **FEBS Lett** 1996 Sep 30;394(2):196–200

Functional expression of human cone pigments using recombinant baculovirus: compatibility with histidine tagging and evidence for N-glycosylation. Vissers PM, et al. **FEBS Lett** 1996 Oct 28;396(1):26–30

Diethylpyrocarbonate, a histidine selective reagent, causes structural alteration of rat ovarian LH/hCG receptor. Kolena J, et al. **Gen Physiol Biophys** 1997 Mar;16(1):39–47

Signal transduction via the histidyl-aspartyl phosphorelay. Egger LA, et al. **Genes Cells** 1997 Mar;2(3):167–84 (148 ref.)

BglG, the response regulator of the Escherichia coli bgl operon, is phosphorylated on a histidine residue. Amster-Choder O, et al. **J Bacteriol** 1997 Sep; 179(17):5621–4

Purification, characterization, and functional analysis of a truncated Klebsiella aerogenes UreE urease accessory protein lacking the histidine-rich carboxyl terminus. Brayman TG, et al. **J Bacteriol** 1996 Sep;178(18):5410–6

Role of His243 in the phosphatase activity of EnvZ in Escherichia coli. Skarphol K, et al. **J Bacteriol** 1997 Feb; 179(4):1413–6

Electrogenic L-histidine transport in neutral and basic amino acid transporter (NBAT)-expressing Xenopus laevis oocytes. Evidence for two functionally distinct transport mechanisms induced by NBAT expression. Ahmed A, et al. **J Biol Chem** 1997 Jan 3;272(1):125–30

The role of His-134, -147, and -150 residues in subunit assembly, cofactor binding, and catalysis of sheep liver cytosolic serine hydroxymethyltransferase. Jagath JR, et al. **J Biol Chem** 1997 Sep 26;272(39):24355–62

Rate and equilibrium constants for phosphoryltransfer between active site histidines of Escherichia coli HPr and the signal transducing protein IIIGlc. Meadow ND, et al. **J Biol Chem** 1996 Dec 27;271(52):33440–5

Identification of functional conserved residues of CTP:glycerol-3-phosphate cytidylyltransferase. Role of histidines in the conserved HXGH in catalysis. Park YS, et al. **J Biol Chem** 1997 Jun 13;272(24):15161–6

Histidine 265 is important for covalent catalysis by vaccinia topoisomerase and is conserved in all eukaryotic type I enzymes. Petersen BO, et al. **J Biol Chem** 1997 Feb 14; 272(7):3891–6

Modeling of a mutation responsible for human 3-hydroxy-3-methylglutaryl-CoA lyase deficiency implicates histidine 233 as an active site residue. Roberts JR, et al. **J Biol Chem** 1996 Oct 4;271(40):24604–9

Characterization of histidine residues essential for receptor binding and activity of nerve growth factor. Woo SB, et al. **J Biol Chem** 1996 Oct 4;271(40):24433–41

Metal-catalyzed oxidation of histidine in human growth hormone. Mechanism, isotope effects, and inhibition by a mild denaturing alcohol. Zhao F, et al. **J Biol Chem** 1997 Apr 4;272(14):9019–29

X-ray studies on crystalline complexes involving amino acids and peptides. XXXI. Effect of chirality on ionization state, stoichiometry and aggregation in the complexes of oxalic acid with L- and DL-histidine. Prabu MM, et al. **J Biomol Struct Dyn** 1996 Dec;14(3):387–92

Evidence for the essential histidine at the NADPH binding site of enoyl-CoA reductase domain of pigeon liver fatty acid synthetase. Mukherjee S, et al. **J Enzyme Inhib** 1997 Jan;11(3):209–16

Rapid detection of the Fc gamma RIIA-H/R 131 ligand-binding polymorphism using an allele-specific restriction enzyme digestion (ASRED). Jiang XM, et al. **J Immunol Methods** 1996 Nov 29;199(1):55–9

Human lysosomal acid lipase/cholesteryl ester hydrolase and human gastric lipase: identification of the catalytically active serine, aspartic acid, and histidine residues. Lohse P, et al. **J Lipid Res** 1997 May;38(5):892–903

Site-directed mutagenesis of active site contact residues in a hydrolytic abzyme: evidence for an essential histidine involved in transition state stabilization. Miyashita H, et al. **J Mol Biol** 1997 Apr 18;267(5):1247–57

Lack of a precursor-product relationship between histamine and its metabolites in brain after histidine loading. Prell GD, et al. **J Neurochem** 1996 Nov;67(5):1938–44

Role of conserved histidines in catalytic activity and inhibitor binding of human recombinant phosphodiesterase 4A. Jacobitz S, et al. **Mol Pharmacol** 1997 Jun;51(6):999–1006

Characterization of pNiXa, a serpin of Xenopus laevis oocytes and embryos, and its histidine-rich, Ni(II)-binding domain. Sunderman FW Jr, et al. **Mol Reprod Dev** 1996 Aug;44(4):507–24

Role of histidyl residues in the binding of ligands to the porcine N-methyl-D-aspartate receptor. Jenei Z, et al. **Neurosci Lett** 1997 Jun 6;228(2):127–30

Influence of methylation or substitution of the histidine of HVFLRFamide on biological activity and binding of locust oviduct. Lange AB, et al. **Peptides** 1996;17(3):375–80

PHARMACOKINETICS

Pharmacokinetics of stable isotopically labeled L-histidine in humans and the assessment of in vivo histidine ammonia lyase activities. Furuta T, et al. **Drug Metab Dispos** 1996 Jan;24(1):49–54

PHARMACOLOGY

Growth characteristics in laboratory animals fed zinc-deficient, copper-deficient, of histidine-supplemented diets. Van Wouwe JP, et al. **Biol Trace Elem Res** 1996 Oct-Nov;55(1-2):71–7

Low levels of hydrogen peroxide and L-histidine induce DNA double-strand breakage and apoptosis. Palomba L, et al. **Eur J Pharmacol** 1996 Dec 27;318(1):167–73

Effect of oxidative stress by iron on 4-hydroxynonenal formation and proliferative activity in hepatomas of different degrees of differentiation. Hammer A, et al. **Free Radic Biol Med** 1997;23(1):26–33

Evidence for histamine involvement in the effect of histidine loads on food and water intake in rats. Vaziri P, et al. **J Nutr** 1997 Aug;127(8):1519–26

Effects of phenylalanine, histidine, and leucine on basal and GHRH-stimulated GH secretion and on PRL, insulin, and glucose levels in short children. Comparison with the effects of arginine. Bellone J, et al. **J Pediatr Endocrinol Metab** 1996 Sep-Oct;9(5):523–31

Interactions between the histidine stimulation of cadmium and zinc influx into human erythrocytes. Horn NM, et al. **J Physiol (Lond)** 1996 Nov 1;496 (Pt 3):711–8

Effects of intracerebroventricular injection of histamine on memory deficits induced by hippocampal lesions in rats. Kamei C, et al. **Methods Find Exp Clin Pharmacol** 1997 May;19(4):253–9

Biphasic action of the histamine precursor L-histidine in the rat kindling model of epilepsy. Wada Y, et al. **Neurosci Lett** 1996 Feb 9;204(3):205–8

L-histidine/medroxyprogesterone acetate interaction modulates human breast cancer cell growth and progestin receptor expression in vitro. Ghezzo F, et al. **Pharmacol Res** 1997 Feb;35(2):119–22

[Effects of histidine on gastric secretory function] Vasilevskaia LS, et al. **Vopr Pitan** 1996;(6):19–21 (Eng. Abstr.) **(Rus)**

PHYSIOLOGY

Alteration of substrate specificity by mutations at the His61 position in predicted transmembrane domain 1 of human MDR1/P-glycoprotein. Taguchi Y, et al. **Biochemistry** 1997 Jul 22;36(29):8883–9

Influence of proton and essential histidyl residues on the transport kinetics of the H+/peptide cotransport systems in intestine (PEPT 1) and kidney (PEPT 2). Brandsch M, et al. **Biochim Biophys Acta** 1997 Mar 13;1324(2):251–62

Directed mutagenesis reveals that two histidines in tissue inhibitor of metalloproteinase-1 are each essential for the suppression of cell migration, invasion, and tumorigenicity. Walther SE, et al. **Cell Growth Differ** 1996 Nov; 7(11):1579–88

Identification of essential aspartic acid and histidine residues of hormone-sensitive lipase: apparent residues of the catalytic triad. Osterlund T, et al. **FEBS Lett** 1997 Feb 24;403(3):259–62

Histidine-44 of the A subunit of Escherichia coli enterotoxin is involved in its enzymatic and biological activities. Kato M, et al. **FEMS Microbiol Lett** 1997 Jul 15;152(2):219–25

Conserved histidine residues of RCC1 are essential for nucleotide exchange on Ran. Azuma Y, et al. **J Biochem (Tokyo)** 1996 Jul;120(1):82–91

Role of histidine 46 in the hydrolysis and the reverse transphosphorylation reaction of RNase Rh from Rhizopus niveus. Irie M, et al. **J Biochem (Tokyo)** 1997 May; 121(5):849–53

Arginine 52 and histidine 54 located in a conserved amino-terminal hydrophobic region (LX2-R52-G-H54-X3-V-L) are important amino acids for the functional and structural integrity of the human liver UDP-glucuronosyltransferase UGT1*6. Senay C, et al. **Mol Pharmacol** 1997 Mar;51(3):406–13

THERAPEUTIC USE

[Protective effect of L-histidine (singlet oxygen scavenger) on transient forebrain ischemia in the rat] Kawamoto T, et al. **No To Shinkei** 1997 Jul;49(7):612–8 (Eng. Abstr.) **(Jpn)**

TOXICITY

Long-term toxicity/carcinogenicity study of L-histidine monohydrochloride in F344 rats. Ikezaki S, et al. **Food Chem Toxicol** 1996 Aug;34(8):687–91

Mutation induction and mutation spectra of S. typhimurium TA100 after exposure to isohistidines. Zöhrer E, et al. **Mutat Res** 1996 Sep 23;356(2):155–61

[13-week subchronic toxicity study of L-histidine monohydrochloride in F344 rats] Ikezaki S, et al. **Eisei Shikenjo Hokoku** 1994;(112):57–63 (Eng. Abstr.) **(Jpn)**

HISTIDINE CARBOXY-LYASE see **HISTIDINE DECARBOXYLASE**

HISTIDINE DECARBOXYLASE

ANTAGONISTS & INHIBITORS

Effect of alpha-fluoromethylhistidine-evoked histamine depletion on ultrastructure of endocrine cells in acid-producing mucosa of stomach in mouse, rat and hamster. Andersson K, et al. **Cell Tissue Res** 1996 Dec; 286(3):375–84

Fluoromethylhistidine inhibits tumor growth without producing depletion of endogenous histamine. Cricco G, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S59–60

Role of the neuronal histaminergic system in the regulation of somatotropic function: comparison between the neonatal and the adult rat. Grilli R, et al. **J Endocrinol** 1996 Nov; 151(2):195–201

Alpha-fluoromethylhistidine, an inhibitor of histamine biosynthesis, causes arterial hypertension. Campos HA, et al. **Naunyn Schmiedebergs Arch Pharmacol** 1996 Nov;

354(5):627–32
Gastrin–evoked secretion of pancreastatin and histamine from ECL cells and of acid from parietal cells in isolated, vascularly perfused rat stomach. Effects of isobutyl methylxanthin and alpha–fluoromethylhistidine. Chen D, et al. **Regul Pept** 1996 Sep 9;65(2):133–8

BIOSYNTHESIS

Induction by interleukin–1 (IL–1) of the mRNA of histidine decarboxylase, the histamine–forming enzyme, in the lung of mice in vivo and the effect of actinomycin D. Kikuchi H, et al. **Biochem Pharmacol** 1997 May 9;53(9):1383–8
Histidine decarboxylase expression in mouse mast cell line P815 is induced by mouse peritoneal cavity incubation. Ohtsu H, et al. **J Biol Chem** 1996 Nov 8;271(45):28439–44
Effect of interleukin–1 receptor antagonist (IL–1RA) on histamine and serotonin release by rat basophilic leukemia cells (RBL–2H3) and peritoneal mast cells. Conti P, et al. **Mol Cell Biochem** 1996 Feb 9;155(1):61–8

CHEMISTRY

Experimental evidence for structure–activity features in common between mammalian histidine decarboxylase and ornithine decarboxylase. Engel N, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):365–8

GENETICS

Rat histidine decarboxylase promoter is regulated by gastrin through a protein kinase C pathway. Höcker M, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):G619–33
Gastrin regulates the human histidine decarboxylase promoter through an AP–1–dependent mechanism. Höcker M, et al. **Am J Physiol** 1997 Apr;272(4 Pt 1):G822–30
Suppression of L–histidine decarboxylase mRNA expression by methyleugenol. Shin BK, et al. **Biochem Biophys Res Commun** 1997 Mar 6;232(1):188–91
alpha–Fluoromethylhistidine elevates histidine decarboxylase mRNA and chromogranin A mRNA levels in rat oxyntic mucosa. Lindström E, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S107–8
Identification of multiple regulatory elements of human L–histidine decarboxylase gene. Nakagawa S, et al. **J Biochem (Tokyo)** 1997 May;121(5):935–40
The regulation of histidine decarboxylase gene expression. Höcker M, et al. **Yale J Biol Med** 1996 Jan–Feb;69(1):21–33 (62 ref.)
[Regulation of gene expression of L–histidine decarboxylase and histamine N–methyl–transferase, and its relevance to the pathogenesis of bronchial asthma] Yamauchi K. **Nippon Rinsho** 1996 Feb;54(2):377–88 (34 ref.) (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Impact of Rantes and MCP–1 chemokines on in vivo basophilic cell recruitment in rat skin injection model and their role in modifying the protein and mRNA levels for histidine decarboxylase. Conti P, et al. **Blood** 1997 Jun 1; 89(11):4120–7

METABOLISM

Experimental evidence for structure–activity features in common between mammalian histidine decarboxylase and ornithine decarboxylase. Engel N, et al. **Biochem J** 1996 Dec 1;320 (Pt 2):365–8
The effect of methamphetamine on histamine level and histidine decarboxylase activity in the rat brain. Ito C, et al. **Brain Res** 1996 Sep 23;734(1–2):98–102
Histidine decarboxylase expression and histamine metabolism in gastric oxyntic mucosa during hypergastrinemia and carcinoid tumor formation. Kölby L, et al. **Endocrinology** 1996 Oct;137(10):4435–42
Histidine decarboxylase and intracellular histamine in melanoma cells and in a T cell line. Falus A, et al. **Inflamm Res** 1997 Mar;46 Suppl 1:S51–2
Identification of multiple regulatory elements of human L–histidine decarboxylase gene. Nakagawa S, et al. **J Biochem (Tokyo)** 1997 May;121(5):935–40
Contrasting effects of lipopolysaccharides (endotoxins) from oral black–pigmented bacteria and Enterobacteriaceae on platelets, a major source of serotonin, and on histamine–forming enzyme in mice. Endo Y, et al. **J Infect Dis** 1997 Jun;175(6):1404–12
Lipopolysaccharide and interleukin–1beta augmented histidine decarboxylase activity in cultured cells of the rat embryonic brain. Niimi M, et al. **J Neurochem** 1997 Aug; 69(2):851–8
Cholecystokinin–B/gastrin receptor blockade suppresses the activity of rat stomach ECL cells. Ding XQ, et al. **Pharmacol Toxicol** 1997 Jul;81(1):19–25
Suppression of histidine decarboxylase activity in rat oxyntic mucosa by beraprost sodium, a prostacyclin analogue. Kaneko T, et al. **Prostaglandins** 1997 Jan;53(1):37–47
Depletion of enterochromaffin–like cell histamine increases histidine decarboxylase and chromogranin A mRNA levels in rat stomach by a gastrin–independent mechanism. Andersson K, et al. **Scand J Gastroenterol** 1996 Oct; 31(10):959–65

HISTIDINE–SPECIFIC TRNA see **RNA, TRANSFER, HIS**

HISTIDINOL

Transgenic mice for the establishment of histidinol–resistant embryonic fibroblast feeder layers. Tucker RM, et al. **FASEB J** 1996 Dec;10(14):1641–5

METABOLISM

Amino acid substitutions in membrane–spanning domains of Hol1, a member of the major facilitator superfamily of transporters, confer nonselective cation uptake in Saccharomyces cerevisiae. Wright MB, et al. **J Bacteriol** 1996 Dec;178(24):7197–205

PHARMACOLOGY

L–histidinol selectively modulates daunomycin toxicity in normal and tumorigenic kidney epithelial cells. Warrington RC, et al. **Anticancer Res** 1996 Nov–Dec;16(6B):3629–33
Mimetics of L–histidinol which selectively modulate daunomycin toxicity in normal and tumorigenic epithelial cells. Warrington RC, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3635–9
L–histidinol reverses resistance to cisplatinum and other antineoplastics in a tumorigenic epithelial cell line. Warrington RC, et al. **Anticancer Res** 1996 Nov–Dec; 16(6B):3641–6

HISTIDOL see **HISTIDINOL**

HISTIDYL T RNA SYNTHETASE

CHEMISTRY

Isolation and analysis of mutated histidyl–tRNA synthetases from Escherichia coli. Rühlmann A, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):192–201
Crystal structure analysis of the activation of histidine by Thermus thermophilus histidyl–tRNA synthetase. Aberg A, et al. **Biochemistry** 1997 Mar 18;36(11):3084–94
Design of an active fragment of a class II aminoacyl–tRNA synthetase and its significance for synthetase evolution. Augustine J, et al. **Biochemistry** 1997 Mar 25; 36(12):3473–82
The first step of aminoacylation at the atomic level in histidyl–tRNA synthetase. Arnez JG, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8;94(14):7144–9

GENETICS

Sequence and polymorphism analysis of the murine gene encoding histidyl–tRNA synthetase. Blechynden LM, et al. **Gene** 1996 Oct 31;178(1–2):151–6
A hamster temperature–sensitive G1 mutant, tsBN250 has a single point mutation in histidyl–tRNA synthetase that inhibits an accumulation of cyclin D1. Motomura S, et al. **Genes Cells** 1996 Dec;1(12):1101–12
Myositis induced by naked DNA immunization with the gene for histidyl–tRNA synthetase. Blechynden LM, et al. **Hum Gene Ther** 1997 Aug 10;8(12):1469–80
Histidyl–tRNA synthetase–related sequences in GCN2 protein kinase regulate in vitro phosphorylation of eIF–2. Zhu S, et al. **J Biol Chem** 1996 Oct 4;271(40):24989–94

IMMUNOLOGY

Inflammatory myopathy, bronchiolitis obliterans/organizing pneumonia, and anti–Jo–1 antibodies--an interesting association. Kalenian M, et al. **Clin Diagn Lab Immunol** 1997 Mar;4(2):236–40
Antibodies to Jo–1 and Ro–52: why do they go together? [editorial] Venables PJ. **Clin Exp Immunol** 1997 Sep; 109(3):403–5
Myositis induced by naked DNA immunization with the gene for histidyl–tRNA synthetase. Blechynden LM, et al. **Hum Gene Ther** 1997 Aug 10;8(12):1469–80

METABOLISM

Isolation and analysis of mutated histidyl–tRNA synthetases from Escherichia coli. Rühlmann A, et al. **Biochem Biophys Res Commun** 1997 Aug 8;237(1):192–201
Crystal structure analysis of the activation of histidine by Thermus thermophilus histidyl–tRNA synthetase. Aberg A, et al. **Biochemistry** 1997 Mar 18;36(11):3084–94
Strategy for RNA recognition by yeast histidyl–tRNA synthetase. Rudinger J, et al. **Bioorg Med Chem** 1997 Jun; 5(6):1001–9 (56 ref.)
Localization of histidyl–tRNA synthetase (Jo–1) in human laryngeal epithelial carcinoma cell line (HEp–2 cells). Vázquez–Abad D, et al. **Cell Tissue Res** 1996 Dec; 286(3):487–91
Affinity labeling of Escherichia coli histidyl–tRNA synthetase with reactive ATP analogues. Identification of labeled amino acid residues by matrix assisted laser desorption–ionization mass spectrometry. Gillet S, et al. **Eur J Biochem** 1996 Oct 1;241(1):133–41

HISTIOCYTES

CHEMISTRY

The effect of decalcification and choice of fixative on histiocytic iron in bone marrow core biopsies. DePalma L. **Biotech Histochem** 1996 Mar;71(2):57–60
Co–expression of fibroblastic, histiocytic and smooth muscle cell phenotypes on cultured adherent cells derived from human palatine tonsils: a morphological and immunocytochemical study. Honma M, et al. **Pathol Int** 1995 Dec;45(12):903–13

ENZYMOLOGY

Cardiac myxoma is rich in factor XIIIa positive dendrophages: immunohistochemical study of four cases. Berrutti L, et al. **Histopathology** 1996 Jun;28(6):529–35

METABOLISM

Osteopontin is strongly expressed by histiocytes in granulomas of diverse etiology. Carlson I, et al. **Lab Invest** 1997 Jul;77(1):103–8
Lectin binding and uptake in human (myelo)monocytic cell lines: HL60 and U937. Schumacher U, et al. **Ultrastruct Pathol** 1996 Sep–Oct;20(5):463–71

PATHOLOGY

Pigmented villonodular synovitis [letter; comment] Docken WP. **Ann Rheum Dis** 1997 May;56(5):336. Comment on: Ann Rheum Dis 1996 Nov;55(11):786–8.
Small, freshly arrived histiocytes in cutaneous and mucosal herpetic lesions. van den Oord JJ, et al. **Arch Dermatol Res** 1996 Aug;288(9):500–6
Morphological spectrum of follicle center cell lymphomas associated with infiltration of epithelioid histiocytes [letter; comment] Naresh KN. **Hum Pathol** 1997 Jan;28(1):114–5 . Comment on: Hum Pathol 1996 Jul;27(7):660–7.
Recurrent histiocytic necrotizing lymphadenitis (Kikuchi's disease) in an human T lymphotropic virus type I carrier [see comments] Atarashi K, et al. **Intern Med** 1996 Oct; 35(10):821–5. Comment in: Intern Med 1996 Oct;35(10):753.
Giant cell myocarditis: an entity distinct from sarcoidosis characterized by multiphasic myocyte destruction by cytotoxic T cells and histiocytic giant cells. Litovsky SH, et al. **Mod Pathol** 1996 Dec;9(12):1126–34
Frequency of pseudo–Gaucher cells in diagnostic bone marrow biopsies from patients with Ph–positive chronic myeloid leukaemia. Büsche G, et al. **Virchows Arch** 1997 Feb;430(2):139–48
[Histiocytic reaction in the lymph nodes after total hip joint endoprosthesis surgery] Dudorkinová D, et al. **Cesk Patol** 1997 May;33(2):53–6 (Eng. Abstr.) **(Cze)**
[Necrotizing histiocytic lymphadenitis (Kikuchi–Fujimoto disease): contribution of 2 cases] Torres Martínez M, et al. **Rev Clin Esp** 1996 Oct;196(10):706–9 (27 ref.) (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Malakoplakia of urinary tract: report of two cases with emphasizing the histologic spectrum and the morphogenesis of Michaelis–Gutmann bodies. Ng KF, et al. **Chang Keng I Hsueh** 1996 Mar;19(1):55–61
Intraoperative diagnosis of osseous eosinophilic granuloma by touch preparation: report of two cases with immunohistochemistry and electron microscopy. Demille P, et al. **Diagn Cytopathol** 1996 Feb;14(1):68–71
Co–expression of fibroblastic, histiocytic and smooth muscle cell phenotypes on cultured adherent cells derived from human palatine tonsils: a morphological and immunocytochemical study. Honma M, et al. **Pathol Int** 1995 Dec;45(12):903–13

VIROLOGY

Histiocytic necrotizing lymphadenitis. A clinico–pathologic study of 45 cases with in situ hybridization for Epstein–Barr virus and hepatitis B virus. Cho KJ, et al. **J Korean Med Sci** 1996 Oct;11(5):409–14

HISTIOCYTIC DISORDERS, MALIGNANT

CHEMICALLY INDUCED

Lymphohaematopoietic malignancies and quantitative estimates of exposure to benzene in Canadian petroleum distribution workers. Schnatter AR, et al. **Occup Environ Med** 1996 Nov;53(11):773–81

PATHOLOGY

Antimacrophage monoclonal antibody D11 in the diagnosis of tumors of histiocytic origin. Petrovichev NN, et al. **Acta Cytol** 1997 Mar–Apr;41(2):357–63

HISTIOCYTIC LYMPHOMA see **LYMPHOMA, LARGE–CELL**

HISTIOCYTIC LYMPHOMA, DIFFUSE see **LYMPHOMA, LARGE–CELL, DIFFUSE**

HISTIOCYTIC LYMPHOMA, NODULAR see **LYMPHOMA, LARGE–CELL, FOLLICULAR**

HISTIOCYTOMA see **DERMATOFIBROMA**

HISTIOCYTOMA, FIBROUS

Malignant fibrous histiocytoma of the lung. Report of four cases and review of the literature. Halyard MY, et al. **Cancer** 1996 Dec 15;78(12):2492–7 (33 ref.)

Malignant fibrous histiocytoma of bone. A clinicopathologic study of 81 patients. Nishida J, et al. **Cancer** 1997 Feb 1; 79(3):482–93

[Malignant fibrous histiocytoma of the retroperitoneum] Saile N, et al. **Prog Urol** 1996 Dec;6(6):944–7 (11 ref.) (Eng. Abstr.) **(Fre)**

[Malignant fibrous histiocytoma. Two case reports and review of the literature] Martinazzoli A, et al. **Minerva Chir** 1997 Jan–Feb;52(1–2):123–8 (43 ref.) (Eng. Abstr.) **(Ita)**

[Atypical fibrous histiocytoma of the seminal vesicle] Noel Mederos Curbelo O, et al. **Arch Esp Urol** 1996 Oct; 49(8):872–5 (Eng. Abstr.) **(Spa)**

CHEMISTRY

Pleomorphic hyalinizing angiectatic tumor of soft parts: immunohistochemical case study shows cellular composition by CD34+ fibroblasts and factor XIIIa+ dendrophages. Silverman JS, et al. **J Cutan Pathol** 1997 Jul;24(6):377–83

CLASSIFICATION

Malignant fibrous histiocytoma: histomorphological pattern or tumor type. Meister P. **Pathol Res Pract** 1996 Aug; 192(8):877–81 (36 ref.)

COMPLICATIONS

Fibrous dysplasia of the spine, costae and hemipelvis with sarcomatous transformation. Rodenberg J, et al. **Skeletal Radiol** 1996 Oct;25(7):682–4

Soft tissues sarcoma with acute paraneoplastic hepatic dysfunction: case report. Bisagni G, et al. **Tumori** 1996 Sep–Oct;82(5):499–501

DIAGNOSIS

Malignant fibrous histiocytoma of the inferior vena cava: appearances on contrast-enhanced spiral CT and MRI. Kelekis NL, et al. **Abdom Imaging** 1996 Sep–Oct; 21(5):461–3

Primary malignant fibrous histiocytoma of the lung. Report of a case with bronchial brushing cytologic features. Barbas CS, et al. **Acta Cytol** 1997 May–Jun;41(3):919–23

Malignant fibrous histiocytoma of the temporal bone with endocranial extension. Nakayama K, et al. **AJNR Am J Neuroradiol** 1997 Feb;18(2):331–4

Angiomatoid fibrous histiocytoma. Grossman LD, et al. **Ann Plast Surg** 1996 Jun;36(6):649–51

Giant malignant fibrous histiocytoma of the uterus. Selvaggi L, et al. **Arch Gynecol Obstet** 1997;259(4):197–200

Malignant fibrous histiocytoma of the lung in a child. An unusual neoplasm that can mimick inflammatory pseudotumour. Nistal M, et al. **Eur J Pediatr** 1997 Feb; 156(2):107–9

Fibrous histiocytoma of the lacrimal sac. Choi G, et al. **Head Neck** 1997 Jan;19(1):72–5 (23 ref.)

Giant cell tumor of the larynx: case report and review of the literature. Werner JA, et al. **Head Neck** 1997 Mar; 19(2):153–7 (31 ref.)

Angiomatoid malignant fibrous histiocytoma. Pai MR, et al. **Indian J Pathol Microbiol** 1995 Jul;38(3):323–5

Cutaneous fibrous histiocytoma [letter] Derk FF, et al. **J Am Podiatr Med Assoc** 1997 May;87(5):241–2

Uncommon cutaneous neoplasms. Harrington AC, et al. **Md Med J** 1997 May–Jun;46(5):255–62 (48 ref.)

Inflammatory malignant fibrous histiocytoma: distinction from Hodgkin's disease and non-Hodgkin's lymphoma by a panel of leukocyte markers. Khalidi HS, et al. **Mod Pathol** 1997 May;10(5):438–42

General case of the day. Malignant fibrous histiocytoma of the pulmonary artery. Ludwig DR, et al. **Radiographics** 1996 Sep;16(5):1231–4

Multifocal malignant fibrous histiocytoma of the spine. Maillefert JF, et al. **Rev Rhum Engl Ed** 1997 Apr; 64(4):274–7

Benign fibrous histiocytoma of the femur: review of three cases. Hamada T, et al. **Skeletal Radiol** 1996 Jan;25(1):25–9 (11 ref.)

Malignant fibrous histiocytoma of the mandible. Narvaez JA, et al. **Skeletal Radiol** 1996 Jan;25(1):96–9 (20 ref.)

A case of malignant fibrous histiocytoma of the lung arising as a third primary tumor. Gómez-Román JJ, et al. **Thorac Cardiovasc Surg** 1996 Dec;44(6):321–3

[Ulcer of the esophagus disclosing probable malignant histiocytofibroma of the posterior mediastinum] Bellaïche G, et al. **Gastroenterol Clin Biol** 1997;21(5):423–5 (Eng. Abstr.) **(Fre)**

[A case of G-CSF producing malignant fibrous histiocytoma of the small intestine] Chuma M, et al. **Nippon Shokakibyo Gakkai Zasshi** 1997 May;94(5):340–5 **(Jpn)**

[A giant histiocytoma of the occipital area] Makhmudov UB, et al. **Zh Vopr Neirokhir Im N N Burdenko** 1997 Apr–Jun; (2):29–31 (12 ref.) **(Rus)**

DRUG THERAPY

Neoadjuvant chemotherapy for malignant fibrous histiocytoma of bone and for osteosarcoma of the limbs: a comparison between the results obtained for 21 and 144 patients, respectively, treated during the same period with the same chemotherapy protocol. Bacci G, et al. **Chir Organi Mov** 1996 Apr–Jun;81(2):139–53 **(Eng, Ita)**

Neoadjuvant chemotherapy for osseous malignant fibrous histiocytoma of the extremity: results in 18 cases and comparison with 112 contemporary osteosarcoma patients treated with the same chemotherapy regimen. Bacci G, et al. **J Chemother** 1997 Aug;9(4):293–9

Phenotypic modulation in cisplatin-resistant cloned cells derived from transplantable rat malignant fibrous histiocytoma. Yamate J, et al. **Pathol Int** 1996 Aug; 46(8):557–67

ETIOLOGY

Invasive atypical fibroxanthoma and eruptive actinic keratoses in a heart transplant patient. Paquet P, et al. **Dermatology** 1996;192(4):411–3

Malignant fibrous histiocytoma after radiation therapy for prostate cancer: case report. Miro AG, et al. **J Chemother** 1997 Apr;9(2):162

Malignant fibrous histiocytoma after radiation for ameloblastoma of the maxilla. Li KK, et al. **J Oral Maxillofac Surg** 1997 Jan;55(1):85–8 (19 ref.)

Primary intracerebral malignant fibrous histiocytoma: immunohistochemical findings and etiopathogenetic considerations. Martinez-Salazar A, et al. **Mod Pathol** 1997 Feb;10(2):149–54 (42 ref.)

GENETICS

Single somatic ras gene point mutation in soft tissue malignant fibrous histiocytomas. Bohle RM, et al. **Am J Pathol** 1996 Mar;148(3):731–8

Interphase cytogenetic analysis of myxoid soft tissue tumors by fluorescence in situ hybridization and DNA flow cytometry using paraffin-embedded tissue. Aoki T, et al. **Cancer** 1997 Jan 15;79(2):284–93

Cytogenetic studies in malignant fibrous histiocytoma. Walter TA, et al. **Cancer Genet Cytogenet** 1997 Apr;94(2):131–4

Ploidy analysis in paraffin-embedded malignant fibrous histiocytoma by DNA cytofluorometry and flourescence in situ hybridization. Murata H, et al. **Cancer Lett** 1997 Sep 16;118(1):123–8

MDM2 amplification, P53 mutation, and accumulation of the P53 gene product in malignant fibrous histiocytoma. Reid AH, et al. **Diagn Mol Pathol** 1996 Mar;5(1):65–73

19p+ marker chromosome correlates with relapse in malignant fibrous histiocytoma. Choong PF, et al. **Genes Chromosomes Cancer** 1996 Jun;16(2):88–93

Molecular cytogenetic characterization and physical mapping of 12q13–15 amplification in human cancers. Elkahloun AG, et al. **Genes Chromosomes Cancer** 1996 Dec; 17(4):205–14

Cellular fibrous histiocytoma of the skin: evidence of a clonal process with different karyotype from dermatofibrosarcoma. Vanni R, et al. **Genes Chromosomes Cancer** 1997 Apr;18(4):314–7

Genetic analysis of a sarcoma accidentally transplanted from a patient to a surgeon. Gärtner HV, et al. **N Engl J Med** 1996 Nov 14;335(20):1494–6

[Detection of point mutation of p53 gene by silver staining PCR-SSCP in paraffin-embedded malignant fibrous histiocytoma] Li J, et al. **Chung Hua Chung Liu Tsa Chih** 1996 Jan;18(1):13–5 (Eng. Abstr.) **(Chi)**

IMMUNOLOGY

Angiomatoid malignant fibrous histiocytoma revisited. An immunohistochemical and DNA ploidy analysis. Morgan MB, et al. **Am J Dermatopathol** 1997 Jun;19(3):223–7

Binding and internalization of anti-sarcoma IgG and IgM antibodies. Chao TC, et al. **J Surg Res** 1997 Jun;70(1):27–33

Heterogeneity in the origin and immunophenotypes of "histiocytic" cells in transplantable rat malignant fibrous histiocytoma. Yamate J, et al. **J Vet Med Sci** 1996 Jul; 58(7):603–9

METABOLISM

Tenascin expression in cutaneous fibrohistiocytic tumors. Immunohistochemical investigation of 24 cases. Franchi A, et al. **Am J Dermatopathol** 1996 Oct;18(5):454–9

Continuous intratumoral microdialysis during high-dose methotrexate therapy in a patient with malignant fibrous histiocytoma of the femur: a case report. Ekstrøm PO, et al. **Cancer Chemother Pharmacol** 1997;39(3):267–72

Production of cell-associated PDGF-AA by a human sarcoma cell line: evidence for a latent autocrine effect. Afrakhte M, et al. **Int J Cancer** 1996 Dec 11;68(6):802–9

Leucocyte and endothelial cell adhesion molecule expression in porcine histiocytic leiomyofibrosarcoma. Whyte A, et al. **J Comp Pathol** 1996 Nov;115(4):429–40

Immunohistochemical analysis of platelet-derived growth factor and its receptors in fibrohistiocytic tumors. Taniuchi K, et al. **J Cutan Pathol** 1997 Aug;24(7):393–7

Hyaluronic acid synthesis by the malignant fibrous histiocytoma cell line NMSG 10 in vitro and its localization. Yokota T, et al. **Pathobiology** 1996;64(2):67–72

PATHOLOGY

The problematic interpretation of foamy cells in breast fine needle aspirates. A report of two cases. Gottschalk-Sabag S, et al. **Acta Cytol** 1997 Mar–Apr;41(2):561–4

Malignant fibrous histiocytoma--the commonest soft tissue sarcoma or a nonexistent entity? Akerman M. **Acta Orthop Scand Suppl** 1997 Feb;273:41–6

Atypical fibroxanthoma with osteoclast-like multinucleated giant cells. Khan ZM, et al. **Am J Dermatopathol** 1997 Apr; 19(2):174–9

Angiomatoid malignant fibrous histiocytoma revisited. An immunohistochemical and DNA ploidy analysis. Morgan MB, et al. **Am J Dermatopathol** 1997 Jun;19(3):223–7

Apoptosis in atypical fibroxanthoma and pleomorphic malignant fibrous histiocytoma. Westermann FN, et al. **Am J Dermatopathol** 1997 Jun;19(3):228–31

Metastasizing cellular dermatofibroma. A report of two cases. Colome-Grimmer MI, et al. **Am J Surg Pathol** 1996 Nov; 20(11):1361–7

Plexiform fibrohistiocytic tumor with systemic metastases: a case report. Salomao DR, et al. **Am J Surg Pathol** 1997 Apr;21(4):469–76

Atypical fibroxanthoma. An unusual variant with osteoclast-like giant cells. Tomaszewski MM, et al. **Am J Surg Pathol** 1997 Feb;21(2):213–8

Dermal and subcutaneous variants of plexiform fibrohistiocytic tumor. Zelger B, et al. **Am J Surg Pathol** 1997 Feb;21(2):235–41 (17 ref.)

Malignant fibrous histiocytomas of the larynx--report of two cases. Soh KB, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):878–81 (25 ref.)

Cutaneous fibrous histiocytoma with osteoclast-like giant cells. Steinthorsson G, et al. **Ann Plast Surg** 1996 Aug; 37(2):217–9

Structure, growth and cell proliferation of human osteosarcoma and malignant fibrous histiocytoma xenografts in serial transplantation in nude mice. Broström LA, et al. **APMIS** 1996 Nov;104(11):775–83

Epibulbar fibrous histiocytoma in a child. Brodovsky SC, et al. **Can J Ophthalmol** 1996 Apr;31(3):130–2

Fine-needle aspiration cytopathology of malignant fibrous histiocytoma. Berardo MD, et al. **Cancer** 1997 Aug 25; 81(4):228–37

LN-2 (CD74). A marker to distinguish atypical fibroxanthoma from malignant fibrous histiocytoma. Lazova R, et al. **Cancer** 1997 Jun 1;79(11):2115–24

Characterization of a human myxoid malignant fibrous histiocytoma cell line, OH931. Krause AK, et al. **Cancer Genet Cytogenet** 1997 Apr;94(2):138–43

Cytogenetic and molecular genetic analysis of a pediatric pleomorphic sarcoma reveals similarities to adult malignant fibrous histiocytoma. Palmer JL, et al. **Cancer Genet Cytogenet** 1997 Jun;95(2):141–7

Ploidy analysis in paraffin-embedded malignant fibrous histiocytoma by DNA cytofluorometry and flourescence in situ hybridization. Murata H, et al. **Cancer Lett** 1997 Sep 16;118(1):123–8

Malignant fibrous histiocytoma of the left ventricle: a case report. Fang CY, et al. **Chang Keng I Hsueh** 1996 Jun; 19(2):187–90

Atypical plexiform fibrohistiocytic tumour. Fisher C. **Histopathology** 1997 Mar;30(3):271–3

Inflammatory leiomyosarcoma: a morphological subgroup within the heterogeneous family of so-called inflammatory malignant fibrous histiocytoma. Merchant W, et al. **Histopathology** 1995 Dec;27(6):525–32

P-53 positivity and high proliferative index: factors of bad prognosis in malignant fibrous histiocytomas. Brinck U, et al. **In Vivo** 1995 Sep–Oct;9(5):475–8

Malignant fibrous histiocytoma secondary to fibrous dysplasia. A case report. Ohmori K, et al. **Int Orthop** 1996; 20(6):385–8

A fibrous histiocytoma with a polypoid pattern of growth in a major bronchus. Maeda Y, et al. **Intern Med** 1996 Sep; 35(9):724–7

Late malignant transformation of a benign giant-cell tumor of bone. A case report. Sakkers RJ, et al. **J Bone Joint Surg Am** 1997 Feb;79(2):259–62

Clear-cell atypical fibroxanthoma: an uncommon histopathologic variant of atypical fibroxanthoma. Requena L, et al. **J Cutan Pathol** 1997 Mar;24(3):176–82 (34 ref.)

A case of subcutaneous malignant fibrous histiocytoma circumscribed by fibrous tissue. Fukunaka H, et al. **J Dermatol** 1996 Nov;23(11):836–9 (14 ref.)

A case of cutaneous malignant fibrous histiocytoma. Ichikawa E, et al. **J Dermatol** 1996 Aug;23(8):535–8

Malignant fibrous histiocytoma in children. Corpron CA, et al. **J Pediatr Surg** 1996 Aug;31(8):1080–3

Phenotypic changes in lipopolysaccharide-treated cloned cells derived from transplantable rat malignant fibrous histiocytoma. Yamate J, et al. **J Vet Med Sci** 1996 Oct; 58(10):1017–20

Primary intracerebral malignant fibrous histiocytoma: immunohistochemical findings and etiopathogenetic considerations. Martinez-Salazar A, et al. **Mod Pathol** 1997 Feb;10(2):149–54 (42 ref.)

Commentary: malignant fibrous histiocytoma versus adenocarcinoma of the breast. Weiskittel S. **Oncol Nurs Forum** 1996 Sep;23(8):1178

Buccal mass with ulceration [clinical conference] Whitaker SB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1997

May;83(5):527–31
Malignant fibrous histiocytoma of the pancreas. Haba R, et al. **Pathol Int** 1996 Jul;46(7):515–9
Malignant fibrous histiocytoma of the esophagus. Naganuma H, et al. **Pathol Int** 1996 Jun;46(6):462–6
Phenotypic modulation in cisplatin-resistant cloned cells derived from transplantable rat malignant fibrous histiocytoma. Yamate J, et al. **Pathol Int** 1996 Aug; 46(8):557–67
Malignant fibrous histiocytoma of the renal capsule and synchronous transitional cell carcinoma of the bladder. Lopez JI, et al. **Pathol Res Pract** 1996 May;192(5):468–71; discussion 472–3
Malignant fibrous histiocytoma: histomorphological pattern or tumor type. Meister P. **Pathol Res Pract** 1996 Aug; 192(8):877–81 (36 ref.)
An unusual soft tissue tumor with features of angiomatoid malignant fibrous histiocytoma composed of bimodal CD34 and factor XIIIa positive dendritic cell subsets. CD34 and factor XIIIa in angiomatoid MFH. Silverman JS, et al. **Pathol Res Pract** 1997;193(1):51–8; discussion 59–60
Establishment and characterization of a fibrous histiocytoma cell line (NMSG 10) derived from a malignant fibrous histiocytoma. Yokota T, et al. **Pathol Res Pract** 1995 Dec; 191(12):1231–8
Giant malignant fibrous histiocytoma of the testis/spermatic cord: psychologic and possible etiologic complications of unethical Nazi medical experimentation. Staiman VR, et al. **Urology** 1996 Dec;48(6):939–43
[A clinico-pathologic study of primary malignant fibrous histiocytoma of bone] Liu P, et al.
Chung Hua Chung Liu Tsa Chih 1996 Mar;18(2):146–9 (Eng. Abstr.) **(Chi)**
[Malignant histiocytofibroma of the bladder. A case report] Barriol D, et al. **Prog Urol** 1997 Apr;7(2):270–2 (9 ref.) (Eng. Abstr.) **(Fre)**
[Malignant fibrous histiocytoma: an entity in the process of extinction?] Dei Tos AP. **Pathologica** 1996 Dec;88(6):522–4 **(Ita)**
[Immunohistochemical study on the histogenesis of malignant fibrous histiocytoma] Tsunoda R.
Nippon Ika Daigaku Zasshi 1996 Oct;63(5):365–77 (Eng. Abstr.) **(Jpn)**
[A case of primary fibrous histiocytoma of the lung] Sezai A, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1997 Jul; 45(7):993–7 (Eng. Abstr.) **(Jpn)**
[On the histogenesis and classification of fibrous, lipomatous, fibrohistiocytic and related tumors of bone and soft tissues] Hizawa K. **Nippon Seikeigeka Gakkai Zasshi** 1996 Oct; 70(10):685–95 (30 ref.) **(Jpn)**
[Malignant fibrohistiocytoma in otorhinolaryngology. Review of two cases] Román Rojo L, et al.
Acta Otorrinolaringol Esp 1997 Mar;48(2):155–9 (Eng. Abstr.) **(Spa)**
[Malignant fibrohistiocytoma of the renal capsule. Report of a case and review of the literature] Gutiérrez Mínguez E, et al. **Actas Urol Esp** 1996 Sep;20(8):744–5 (10 ref.) (Eng. Abstr.) **(Spa)**
[Malignant fibrohistiocytoma of the larynx] Lisner Contreras I, et al. **An Otorrinolaringol Ibero Am** 1997;24(3):241–6 (Eng. Abstr.) **(Spa)**

PSYCHOLOGY

Commentary: psychosocial concerns. Vorpahl C.
Oncol Nurs Forum 1996 Sep;23(8):1177–8

RADIOGRAPHY

Malignant fibrous histiocytoma of renal capsule. Garg P, et al. **J Indian Med Assoc** 1995 Nov;93(11):430, 432
[Computed tomographic features of malignant fibrous histiocytoma] Dai J, et al.
Chung Hua Chung Liu Tsa Chih 1996 Mar;18(2):140–2 (Eng. Abstr.) **(Chi)**

RADIONUCLIDE IMAGING

A case of malignant fibrous histiocytoma of the ilium, evaluation by blood-pool scintigraphy. Ohta H, et al.
Ann Nucl Med 1996 Nov;10(4):437–9
Malignant fibrous histiocytoma manifested as photopenia on bone scintigraphy: a case report. Lee JK, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1996 Sep;58(3):230–3
Intracranial malignant fibrous histiocytoma with increased uptake on Tl-201 imaging. Hayashi Y, et al.
Clin Nucl Med 1996 Dec;21(12):1007
Diaphyseal medullary stenosis (sclerosis) with bone malignancy (malignant fibrous histiocytoma): Hardcastle syndrome. Norton KI, et al. **Pediatr Radiol** 1996 Sep; 26(9):675–7

RADIOTHERAPY

Angiomatoid fibrous histiocytoma of the arm treated by radiotherapy for local recurrence—case report. Costa MA, et al. **Med Pediatr Oncol** 1997 May;28(5):373–6

SECONDARY

Plexiform fibrohistiocytic tumor with systemic metastases: a case report. Salomao DR, et al. **Am J Surg Pathol** 1997 Apr;21(4):469–76

SURGERY

Giant plexiform fibrohistiocytic tumor of skin [letter] Karataş O, et al. **Ann Plast Surg** 1997 Mar;38(3):306–7
A comparison of Mohs micrographic surgery and wide excision for the treatment of atypical fibroxanthoma. Davis JL, et al. **Dermatol Surg** 1997 Feb;23(2):105–10
Cutaneous micrographic surgery for atypical fibroxanthoma. Limmer BL, et al. **Dermatol Surg** 1997 Jul;23(7):553–7; discussion 557–8
Management of fibrous histiocytoma of the corneoscleral limbus: report of a case and review of the literature. Mietz H, et al. **Graefes Arch Clin Exp Ophthalmol** 1997 Feb; 235(2):87–91 (24 ref.)
Fibrous histiocytoma of the lacrimal sac. Choi G, et al. **Head Neck** 1997 Jan;19(1):72–5 (23 ref.)
Malignant fibrous histiocytoma in a 9-year-old girl. Hari JK, et al. **Pediatr Neurosurg** 1996;24(3):160–50; discussion 166
Pelvic ring reconstruction with a vascularized bone flap of femur. Yamamoto Y, et al. **Plast Reconstr Surg** 1997 Aug; 100(2):415–7
Radical scapulectomy with limb salvage for shoulder girdle soft tissue sarcoma. Volpe CM, et al. **Surg Oncol** 1996 Feb; 5(1):43–8 (20 ref.)
Successful resection of a retroperitoneal malignant fibrous histiocytoma with caval tumor thrombus. Iwanami K, et al. **Surg Today** 1996;26(2):145–6
[A case of pulmonary sarcoma with a differential diagnosis from preoperative pulmonary thromboembolism] Okada H, et al. **Kyobu Geka** 1996 Nov;49(12):1036–9 (Eng. Abstr.) **(Jpn)**
[A case of malignant lung fibrous histiocytoma] Sato K, et al. **Kyobu Geka** 1996 Dec;49(13):1115–8 (10 ref.) (Eng. Abstr.) **(Jpn)**

THERAPY

Hyperthermic isolated limb perfusion with cisplatin in four patients with sarcomas of soft tissue and bone. van Ginkel RJ, et al. **Eur J Surg Oncol** 1996 Oct;22(5):528–31
Malignant fibrous histiocytoma in children. Corpron CA, et al. **J Pediatr Surg** 1996 Aug;31(8):1080–3
[Endoscopic palliation of malignant esophageal stenoses] Baral J, et al. **Leber Magen Darm** 1996 Sep;26(5):243–6 (Eng. Abstr.) **(Ger)**

VETERINARY

Leucocyte and endothelial cell adhesion molecule expression in porcine histiocytic leiomyofibrosarcoma. Whyte A, et al. **J Comp Pathol** 1996 Nov;115(4):429–40
Malignant fibrous histiocytoma and malignant histiocytosis in the dog--convergent or divergent phenotypic differentiation? Kerlin RL, et al. **Vet Pathol** 1996 Nov; 33(6):713–6
Malignant fibrous histiocytoma in a puppy. Pires MA.
Vet Rec 1997 Mar 1;140(9):234–5

HISTIOCYTOSIS

Histiocyte disorders. Webb DK. **Br Med Bull** 1996 Oct; 52(4):818–25 (28 ref.)
[Histiocytosis] Veyssier-Belot C, et al. **Rev Med Interne** 1996; 17(11):911–23 (70 ref.) (Eng. Abstr.) **(Fre)**

CLASSIFICATION

Contemporary classification of histiocytic disorders. The WHO Committee On Histiocytic/Reticulum Cell Proliferations. Reclassification Working Group of the Histiocyte Society. Favara BE, et al.
Med Pediatr Oncol 1997 Sep;29(3):157–66 (66 ref.)

COMPLICATIONS

A case of multicentric reticulohistiocytosis, systemic sclerosis and Sjögren syndrome. Takahashi M, et al. **J Dermatol** 1997 Aug;24(8):530–4
Intraparotid subacute necrotizing histiocytic lymphadenitis (Kikuchi-Fujimoto's disease). Laccourreye O, et al.
J Otolaryngol 1997 Feb;26(1):64–6
Erdheim-Chester disease. Clinical and radiologic characteristics of 59 cases. Veyssier-Belot C, et al.
Medicine (Baltimore) 1996 May;75(3):157–69 (67 ref.)
Histiocytic necrotizing lymphadenitis (Kikuchi's disease) of the cervical lymph nodes. Kumar BN, et al.
ORL J Otorhinolaryngol Relat Spec 1997 May-Jun; 59(3):176–8
Subcutaneous crystal-storing histiocytosis associated with lymphoplasmacytic lymphoma (immunocytoma) [see comments] Kaufmann O, et al. **Pathol Res Pract** 1996 Nov; 192(11):1148–51. Comment in: Pathol Res Pract 1996 Nov;192(11):1152–62.
Gammopathy-related crystal-storing histiocytosis, pseudo- and pseudo-pseudo-Gaucher cells. Critical commentary and mini-review [comment] Schaefer HE.
Pathol Res Pract 1996 Nov;192(11):1152–62 (95 ref.). Comment on: Pathol Res Pract 1996 Nov;192(11):1148–51.
Kikuchi's disease and systemic lupus erythematosus [letter; comment] Davies CW, et al. **Respir Med** 1997 Feb; 91(2):117–8. Comment on: Respir Med 1995 Nov;89(10):701–3.

CONGENITAL

A solitary congenital self-healing histiocytosis. Report of a case and review of the literature. Shy SW, et al.
Pathol Res Pract 1996 Aug;192(8):869–74; discussion 875–6 (23 ref.)

DIAGNOSIS

Multicentric reticulohistiocytosis. Kocanaogullari H, et al. **Clin Rheumatol** 1996 Jan;15(1):62–66
Histiocytic sarcoma that mimics benign histiocytosis. Boisseau-Garsaud AM, et al. **J Cutan Pathol** 1996 Jun; 23(3):275–82
Erdheim-Chester disease of the central nervous system. Report of two cases. Babu RP, et al. **J Neurosurg** 1997 May;86(5):888–92 (26 ref.)

DRUG THERAPY

Indeterminate cell histiocytosis treated successfully with 2-chlorodeoxyadenosine. Daoud MS, et al. **Cutis** 1997 Jan; 59(1):27–31; quiz 32 (24 ref.)

ETIOLOGY

Hemophagocytosis as a para-neoplastic syndrome in NK cell leukemia. Kobayashi Y, et al. **Int J Hematol** 1996 Aug; 64(2):135–42
Kikuchi's histiocytic necrotizing lymphadenitis. Veth G, et al. **Neth J Med** 1997 Apr;50(4):170–3
[Immunodeficiency and carcinogenesis in patients with chronic active Epstein-Barr virus infection] Nagafuchi S, et al. **Kansenshogaku Zasshi** 1997 Jan;71(1):56–64 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

[Kikuchi syndrome, Hashimoto thyroiditis and lupus serology. Apropos of a case] Bousquet E, et al.
Rev Med Interne 1996;17(10):836–8 (14 ref.) (Eng. Abstr.) **(Fre)**

MICROBIOLOGY

In situ hybridization studies of cytomegalovirus and Epstein-Barr virus in reactive histiocytic hyperplasia with hemophagocytosis. Han K, et al. **Acta Haematol** 1996; 96(3):140–5

PATHOLOGY

Histiocytic necrotizing lymphadenitis (Kikuchi-Fujimoto's disease) with cutaneous involvement [letter] Rosina P, et al. **Acta Derm Venereol** 1997 Jan;77(1):86–7
Indeterminate cell histiocytosis: a rare histiocytic disorder. Manente L, et al. **Am J Dermatopathol** 1997 Jun; 19(3):276–83 (19 ref.)
Non-Langerhans cell histiocytoses. A new unifying concept. Zelger BW, et al. **Am J Dermatopathol** 1996 Oct; 18(5):490–504 (62 ref.)
Massive crystal-storing histiocytosis associated with low-grade malignant B-cell lymphoma of MALT-type of the parotid gland. Llobet M, et al. **Diagn Cytopathol** 1997 Aug;17(2):148–52
Histiocytic sarcoma that mimics benign histiocytosis. Boisseau-Garsaud AM, et al. **J Cutan Pathol** 1996 Jun; 23(3):275–82
Erdheim-Chester disease of the central nervous system. Report of two cases. Babu RP, et al. **J Neurosurg** 1997 May;86(5):888–92 (26 ref.)
Unusual bilateral renal histiocytosis: extranodal variant of Rosai-Dorfman disease. Kugler A, et al. **J Urol** 1997 Mar; 157(3):942
Pulmonary histiocytosis in tree shrews (Tupaia belangeri). Brack M, et al. **Lab Anim Sci** 1997 Jun;47(3):269–74
Gammopathy-related crystal-storing histiocytosis, pseudo- and pseudo-pseudo-Gaucher cells. Critical commentary and mini-review [comment] Schaefer HE.
Pathol Res Pract 1996 Nov;192(11):1152–62 (95 ref.). Comment on: Pathol Res Pract 1996 Nov;192(11):1148–51.
A solitary congenital self-healing histiocytosis. Report of a case and review of the literature. Shy SW, et al.
Pathol Res Pract 1996 Aug;192(8):869–74; discussion 875–6 (23 ref.)
Histiocytic necrotizing lymphadenitis (Kikuchi's disease). Soda G, et al. **Pathologica** 1996 Jun;88(3):192–5
Histopathology of the liver in histiocytosis syndromes. Favara BE. **Pediatr Pathol Lab Med** 1996 May-Jun; 16(3):413–33
[Histiocytoses as diseases of the macrophage system] Lukina EA. **Ter Arkh** 1996;68(7):82–8 (70 ref.) **(Rus)**
[Necrotizing histiocytic lymphadenitis: Kikuchi's disease (letter)] Mosquera Lozano D, et al. **An Med Interna** 1996 Feb;13(2):97 (9 ref.) **(Spa)**

PHYSIOPATHOLOGY

[Histiocytosis: recent physiopathological data (editorial)] Emile JF, et al. **Rev Med Interne** 1996;17(11):891–2 **(Fre)**

RADIOGRAPHY

Erdheim-Chester disease. Clinical and radiologic characteristics of 59 cases. Veyssier-Belot C, et al.

Medicine (Baltimore) 1996 May;75(3):157–69 (67 ref.)
[Imaging of Erdheim–Chester disease] Gomez C, et al. **J Radiol** 1996 Dec;77(12):1213–21 (22 ref.) (Eng. Abstr.) **(Fre)**

VETERINARY

Pulmonary histiocytosis in tree shrews (Tupaia belangeri). Brack M, et al. **Lab Anim Sci** 1997 Jun;47(3):269–74

VIROLOGY

Kikuchi disease (histiocytic necrotizing lymphadenitis) in association with HTLV1. Bataille V, et al. **Br J Dermatol** 1997 Apr;136(4):610–2

HISTIOCYTOSIS, GENERALIZED see **LETTERER–SIWE DISEASE**

HISTIOCYTOSIS, LANGERHANS–CELL

Langerhans' cell histiocytosis: a case history. Craze JL, et al. **Ann Oncol** 1996 Jan;7(1):89–94 (24 ref.)
An update of the benign proliferative monocyte–macrophage and dendritic cell disorders. Moschella SL. **J Dermatol** 1996 Nov;23(11):805–15 (56 ref.)
Langerhans'-cell histiocytosis in adults. Baumgartner I, et al. **Med Pediatr Oncol** 1997 Jan;28(1):9–14
Langerhans cell histiocytosis in the adult. Malpas JS, et al. **Med Pediatr Oncol** 1996 Dec;27(6):540–6
Taking the X out of histiocytosis X [editorial; comment] Siegelman SS. **Radiology** 1997 Aug;204(2):322–4 (23 ref.) . Comment on: Radiology 1997 Aug;204(2):497–502.

COMPLICATIONS

Localized thymic Langerhans' cell histiocytosis and its relationship with myasthenia gravis. Immunohistochemical, ultrastructural, and cytometric studies. Gilcrease MZ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):134–8
Advanced pulmonary histiocytosis X is associated with severe pulmonary hypertension [letter] Harari S, et al. **Chest** 1997 Apr;111(4):1142–4
Aural symptoms as primary presentation of Langerhan's cell histiocytosis. Quraishi MS, et al. **Clin Otolaryngol** 1993 Aug;18(4):317–23
Langerhans cell histiocytosis with thyroid involvement. Chong VF. **Eur J Radiol** 1996 May;22(2):155–7
Erdheim–Chester disease with prominent pulmonary involvement associated with eosinophilic granuloma of mandibular bone. Kambouchner M, et al. **Histopathology** 1997 Apr;30(4):353–8
Langerhans cell histiocytosis associated with diabetes insipidus: magnetic resonance imaging. Proietto G, et al. **Int J Dermatol** 1996 Oct;35(10):730–2
Acute disseminated histiocytosis X presenting with frightening proptosis in an adult. Singh NK, et al. **J Assoc Physicians India** 1996 Aug;44(8):571–2
Neurological manifestations following treatment of Langerhans cell histiocytosis [letter] Varona L, et al. **J Neurol** 1997 Jan;244(1):58–60
Langerhans cell histiocytosis associated with partial DiGeorge syndrome in a newborn. Levendoglu-Tugal O, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):401–4
Diabetes insipidus associated with Langerhans cell histiocytosis: is it reversible? Broadbent V, et al. **Med Pediatr Oncol** 1997 Apr;28(4):289–93
Diabetes insipidus secondary to Langerhans' cell histiocytosis: is radiation therapy indicated? Rosenzweig KE, et al. **Med Pediatr Oncol** 1997 Jul;29(1):36–40 (19 ref.)
Recurrent pneumomediastinum and pneumothorax in Langerhans cell histiocytosis. Yule SM, et al. **Med Pediatr Oncol** 1997 Aug;29(2):139–42
Histiocytosis X and glomerulonephritis: a case report [letter] Duranay M, et al. **Nephron** 1996;73(2):329–30
Langerhans' cell histiocytosis: report of three cases with unusual oral soft tissue involvement. Cleveland DB, et al. **Oral Surg Oral Med Oral Pathol Oral Radiol Endod** 1996 Nov;82(5):541–8
Case of the season. Langerhans' cell histiocytosis with sclerosing cholangitis [SC] causing secondary biliary cirrhosis. Goyal M, et al. **Semin Roentgenol** 1997 Jul; 32(3):147–9
Langerhans cell histiocytosis associated with recurrent pneumothorax: a case report. Okten A, et al. **Turk J Pediatr** 1996 Jan–Mar;38(1):125–30
[Basedow's disease in an adolescent with histiocytosis X] Viollet L, et al. **Arch Pediatr** 1997 Jul;4(7):656–8 (Eng. Abstr.) **(Fre)**
[Non-seminomatous germ cell tumor of the testis and pulmonary Langerhans-cell histiocytosis: a fortuitous association? (letter)] de Pinieux G, et al. **Presse Med** 1997 Feb 8;26(3):118–9 **(Fre)**

CONGENITAL

Late manifestation of diabetes insipidus in "pure" cutaneous Langerhans cell histiocytosis. Hoeger PH, et al. **Eur J Pediatr** 1997 Jul;156(7):524–7

DIAGNOSIS

Hyperintense basal ganglia on T1-Weighted MR in a patient with Langerhans cell histiocytosis [letter; comment] Brunberg JA. **AJNR Am J Neuroradiol** 1996 Jun–Jul; 17(6):1193–4. Comment on: AJNR Am J Neuroradiol 1994 Nov;15(10):1921–8.
Hyperintense basal ganglia on T1-weighted MR in a patient with Langerhans cell histiocytosis [letter; comment] Miaux Y, et al. **AJNR Am J Neuroradiol** 1996 Jun–Jul;17(6):1193 . Comment on: AJNR Am J Neuroradiol 1994 Nov;15(10):1921–8.
Langerhans cell histiocytosis diagnosed by fine needle biopsy. Harbour JW, et al. **Arch Ophthalmol** 1997 Sep; 115(9):1212–3
Group II phospholipase A2 and pulmonary histiocytosis X [letter] Yamashita J, et al. **Chest** 1997 Aug;112(2):568
A 6-year-old girl with neck pain. Maffulli N, et al. **Clin Orthop** 1996 Nov;(332):301–3, 307–8
Langerhans cell histiocytosis of vulva and cervix in a 19-year-old woman. Stentella P, et al. **Gynecol Obstet Invest** 1997;44(1):67–9
Langerhans' cell histiocytosis in adults. Mejia R, et al. **J Am Acad Dermatol** 1997 Aug;37(2 Pt 2):314–7 (17 ref.)
Primary Langerhans' cell histiocytosis of the central nervous system with fatal outcome. Case report. Vital A, et al. **J Neurosurg** 1996 Dec;85(6):1156–60 (47 ref.)
Cd1a-positive cells in bronchoalveolar lavage samples from children with Langerhans cell histiocytosis. Réfabert L, et al. **J Pediatr** 1996 Dec;129(6):913–5
Cauda equina histiocytosis X. Lacroix M, et al. **Pediatr Neurol** 1996 Apr;14(3):231–5 (15 ref.)
Langerhans cell histiocytosis presenting as a lumbosacral intradural–extramedullary mass. Tortori-Donati P, et al. **Pediatr Radiol** 1996 Oct;26(10):731–3
Index of suspicion. Case 1 presentation. West D. **Pediatr Rev** 1997 Jul;18(7):248–9
[Disseminated histiocytosis X in an adult patient] Zubonyai C, et al. **Orv Hetil** 1996 Jun 23;137(25):1371–4 (27 ref.) (Eng. Abstr.) **(Hun)**
[Langerhans cell histiocytosis of lymph node] Rovira E, et al. **An Med Interna** 1996 Dec;13(12):589–91 (Eng. Abstr.) **(Spa)**

DRUG THERAPY

Philadelphia chromosome-positive acute lymphoblastic leukemia after therapy for Langerhans cell histiocytosis [letter] Tatsumi T, et al. **Am J Hematol** 1997 Jan;54(1):88
Risk of secondary leukemia after treatment with etoposide (VP-16) for Langerhans' cell histiocytosis in Italian and Austrian–German populations. Haupt R, et al. **Int J Cancer** 1997 Mar 28;71(1):9–13
Primary cutaneous Langerhans cell histiocytosis treated with photochemotherapy. Kwon OS, et al. **J Dermatol** 1997 Jan; 24(1):54–6
2'-Deoxycoformycin as treatment in refractory Langerhans cell histiocytosis [letter] Lombardi A, et al. **J Pediatr** 1997 Feb;130(2):330
Cyclosporine in activated macrophage and histiocytic syndromes [letter; comment] Murphy SB. **J Pediatr** 1997 Jun;130(6):1012. Comment on: J Pediatr 1996 Nov;129(5):630–2. Comment on: J Pediatr 1996 Nov;129(5):750–4.
Treatment of patients with Langerhans cell histiocytosis with vindesine [letter] Hirose M, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):421–2
Treatment of Langerhans cell histiocytosis with 2 chlorodeoxyadenosine. Dimopoulos MA, et al. **Leuk Lymphoma** 1997 Mar;25(1–2):187–9
Improvement of Langerhans' cell histiocytosis and pancreatitis by alpha-interferon [letter] Hirose M. **Med Pediatr Oncol** 1997 Jun;28(6):462–3
2-Chlorodeoxyadenosine (2-CDA) for the treatment of refractory or recurrent Langerhans cell histiocytosis (LCH) in pediatric patients. Stine KC, et al. **Med Pediatr Oncol** 1997 Oct;29(4):288–92
Etoposide in Langerhans cell histiocytosis [editorial] Gadner H. **Pediatr Hematol Oncol** 1996 Jul–Aug;13(4):309–11 (15 ref.)
Treatment of relapsed Langerhans cell histiocytosis by cyclosporin A combined with etoposide and prednisone. Körholz D, et al. **Pediatr Hematol Oncol** 1997 Sep–Oct; 14(5):443–9

ENZYMOLOGY

Immunohistochemical study of matrix metalloproteinases and their tissue inhibitors in pulmonary Langerhans' cell granulomatosis. Hayashi T, et al. **Arch Pathol Lab Med** 1997 Sep;121(9):930–7

EPIDEMIOLOGY

Epidemiologic study of Langerhans cell histiocytosis in children. Bhatia S, et al. **J Pediatr** 1997 May;130(5):774–84
Langerhans cell histiocytosis: an exploratory epidemiologic study of 177 cases. Hamre M, et al. **Med Pediatr Oncol** 1997 Feb;28(2):92–7

ETIOLOGY

Histioeosinophilic granuloma of the thymus [letter] Val-Bernal JF. **Arch Pathol Lab Med** 1997 Sep; 121(9):921–2
New insights into the pathogenesis of Langerhans cell histiocytosis. de Graaf JH, et al. **Curr Opin Pediatr** 1997 Feb;9(1):46–50 (39 ref.)

IMMUNOLOGY

The presence of cytokines in Langerhans' cell histiocytosis. de Graaf JH, et al. **J Pathol** 1996 Dec;180(4):400–6
[Expression of macrophage markers in childhood and adult Langerhans histiocytosis (LCH)] Köhalmi F, et al. **Orv Hetil** 1997 Jun 1;138(22):1399–402 (Eng. Abstr.) **(Hun)**
[Histiocytosis X and ankylosing spondylitis. A common pathogenesis?] Alvarez-Sala R, et al. **An Med Interna** 1996 Jul;13(7):339–40 (Eng. Abstr.) **(Spa)**

METABOLISM

Monokine expression in Langerhans' cell histiocytosis [letter; comment] Corrin B. **J Pathol** 1997 Feb;181(2):251. Comment on: J Pathol 1996 May;179(1):60–5.
Lack of expression of E-cadherin is associated with dissemination of Langerhans' cell histiocytosis and poor outcome. Geissmann F, et al. **J Pathol** 1997 Mar; 181(3):301–4

PATHOLOGY

Cytomorphology of Langerhans cell histiocytosis. Pohar-Marinšek Z, et al. **Acta Cytol** 1996 Nov–Dec; 40(6):1257–64
Head and neck Langerhans cell histiocytosis. Devaney KO, et al. **Ann Otol Rhinol Laryngol** 1997 Jun;106(6):526–32 (48 ref.)
Soft tissue Langerhans' cell histiocytosis in an adult. A case presentation with flow cytometric analysis and literature review. al-Abbadi M, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):169–72 (34 ref.)
Localized thymic Langerhans' cell histiocytosis and its relationship with myasthenia gravis. Immunohistochemical, ultrastructural, and cytometric studies. Gilcrease MZ, et al. **Arch Pathol Lab Med** 1997 Feb;121(2):134–8
Langerhans' cell histiocytosis (histiocytosis-X) in a women with typical ultrastructure of Birbeck's granule: a case report. Wang WS, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Oct;58(4):281–5
Thyroid involvement by malignant histiocytosis of Langerhans' cell type. Kitahama S, et al. **Clin Endocrinol (Oxf)** 1996 Sep;45(3):357–63
Langerhans cell histiocytosis of the hypothalamus: diagnostic value of immunohistochemistry. Mazal PR, et al. **Clin Neuropathol** 1996 Mar–Apr;15(2):87–91
New insights into the pathogenesis of Langerhans cell histiocytosis. de Graaf JH, et al. **Curr Opin Pediatr** 1997 Feb;9(1):46–50 (39 ref.)
Langerhans cell histiocytosis over dilated skin vessels [letter] Bessis D, et al. **Dermatology** 1996;192(4):386–7
Langerhans cell histiocytosis isolated to the thyroid gland. Thompson LD. **Eur Arch Otorhinolaryngol** 1996; 253(1–2):62–5
Langerhans cell histiocytosis with an anterior mediastinal mass involving calcification: confirmation by needle biopsy [letter] Kawasaki K, et al. **Eur J Pediatr** 1997 Jan; 156(1):81–2
Langerhans cell histiocytosis of lymph nodes: draining a papillary carcinoma of the thyroid. Safali M, et al. **Histopathology** 1997 Jun;30(6):599–603
Langerhans cell histiocytosis (histiocytosis X) with morphologic expression of desmosomes and microvillous structures. Furukawa M, et al. **J Dermatol** 1997 Jun; 24(6):379–89
Digestive tract involvement in Langerhans cell histiocytosis. The French Langerhans Cell Histiocytosis Study Group. Geissmann F, et al. **J Pediatr** 1996 Dec;129(6):836–45
Langerhans' cell histiocytosis with thyroid involvement masquerading as thyroid carcinoma. Wang WS, et al. **Jpn J Clin Oncol** 1997 Jun;27(3):180–4 (17 ref.)
Report of the Histiocyte Society workshop on "Central nervous system (CNS) disease in Langerhans cell histiocytosis (LCH)". **Med Pediatr Oncol** 1997 Aug; 29(2):73–8 (4 ref.)
Langerhans cell histiocytosis of lymph nodes: a morphological assessment of 43 biopsies. Favara BE, et al. **Pediatr Pathol Lab Med** 1997 Sep–Oct;17(5):769–87
Langerhans' cell granuloma confined to the bile duct. Finn LS, et al. **Pediatr Pathol Lab Med** 1997 May–Jun; 17(3):461–8
Disseminated Langerhans cell histiocytosis: a case report with a light microscopic and ultrastructural study. Ionescu N, et al. **Rom J Morphol Embryol** 1996 Jul–Dec; 42(3–4):225–34
[Histiocytosis] Veyssier-Belot C, et al. **Rev Med Interne** 1996; 17(11):911–23 (70 ref.) (Eng. Abstr.) **(Fre)**
[Langerhans cell granulomatosis of the lung (morphological studies of lung biopsy specimens from patient with histiocytosis X] Tiszlavicz L, et al. **Orv Hetil** 1997 Jan 26;138(4):215–8 (Eng. Abstr.) **(Hun)**
[Histiocytosis X—report of 3 cases with different types of lung changes] Jastrzębski D, et al. **Pneumonol Alergol Pol** 1997;65(5–6):380–7 (Eng. Abstr.) **(Pol)**

PHYSIOPATHOLOGY

Determinants of survival in pulmonary Langerhans' cell granulomatosis (histiocytosis X). Groupe d'Etude en Pathologie Interstitielle de la Société de Pathologie Thoracique du Nord. Delobbe A, et al. **Eur Respir J** 1996

Oct;9(10):2002-6
Langerhans cell histiocytosis, diabetes insipidus, hyperprolactinemia and empty sella: a four-fold association. Report of two cases. Panza N, et al. **J Endocrinol Invest** 1996 Jan;19(1):43-7
[Oral histiocytosis X with severe upper maxillary destruction] Milian Masanet A, et al. **Acta Otorrinolaringol Esp** 1996 Nov-Dec;47(6):475-8 (Eng. Abstr.) **(Spa)**

RADIOGRAPHY

Chest case of the day. Histiocytosis X. Gilkeson RC, et al. **AJR Am J Roentgenol** 1997 Jul;169(1):268, 273-4
Unifocal Langerhans' cell histiocytosis [letter; comment] Hoeffel C, et al. **Australas Radiol** 1996 Aug;40(3):369-70 . Comment on: Australas Radiol 1994 Nov;38(4):313-4.
Radiographic skeletal survey and radionuclide bone scan in Langerhans cell histiocytosis of bone. Van Nieuwenhuyse JP, et al. **Pediatr Radiol** 1996 Oct;26(10):734-8
Langerhans cell histiocytosis mimicking malignancy: a radiological appraisal. Potepan P, et al. **Tumori** 1996 Nov-Dec;82(6):603-9

RADIONUCLIDE IMAGING

Thallium-201 uptake in Langerhans cell histiocytosis of bone. Bar-Sever Z, et al. **Pediatr Radiol** 1996 Oct;26(10):739-41; discussion 742-3
Radiographic skeletal survey and radionuclide bone scan in Langerhans cell histiocytosis of bone. Van Nieuwenhuyse JP, et al. **Pediatr Radiol** 1996 Oct;26(10):734-8

RADIOTHERAPY

Philadelphia chromosome-positive acute lymphoblastic leukemia after therapy for Langerhans cell histiocytosis [letter] Tatsumi T, et al. **Am J Hematol** 1997 Jan;54(1):88
Diabetes insipidus secondary to Langerhans' cell histiocytosis: is radiation therapy indicated? Rosenzweig KE, et al. **Med Pediatr Oncol** 1997 Jul;29(1):36-40 (19 ref.)

SURGERY

Solitary Langerhans cell histiocytosis lesion of the parieto-occipital lobe: a case report and review of the literature. Bergmann M, et al. **Clin Neurol Neurosurg** 1997 Feb;99(1):50-5 (42 ref.)
Primary Langerhans' cell histiocytosis of the central nervous system with fatal outcome. Case report. Vital A, et al. **J Neurosurg** 1996 Dec;85(6):1156-60 (47 ref.)
Association between liver transplantation for Langerhans cell histiocytosis, rejection, and development of posttransplant lymphoproliferative disease in children. Newell KA, et al. **J Pediatr** 1997 Jul;131(1 Pt 1):98-104
CNS involvement of Langerhans cell histiocytosis. Report of 23 surgically treated cases. Belen D, et al. **Neurosurg Rev** 1996;19(4):247-52
Cauda equina histiocytosis X. Lacroix M, et al. **Pediatr Neurol** 1996 Apr;14(3):231-5 (15 ref.)
Liver transplantation for Langerhans' cell histiocytosis--a case report and literature review. Melendez HV, et al. **Transplantation** 1996 Oct 27;62(8):1167-71 (30 ref.)

THERAPY

Bone marrow transplantation for refractory Langerhans' cell histiocytosis. Conter V, et al. **Haematologica** 1996 Sep-Oct; 81(5):468-71
Widespread skin-limited Langerhans cell histiocytosis: complete remission with interferon alfa. Kwong YL, et al. **J Am Acad Dermatol** 1997 Apr;36(4):628-9
Progressive Langerhans cell histiocytosis in an infant with Klinefelter syndrome successfully treated with allogeneic bone marrow transplantation. Frost JD, et al. **J Pediatr Hematol Oncol** 1996 Nov;18(4):396-400
12-year follow-up of allogeneic bone-marrow transplant for Langerhans' cell histiocytosis [letter] Ringdén O, et al. **Lancet** 1997 Feb 15;349(9050):476

HISTIOCYTOSIS, LIPID see NIEMANN-PICK DISEASE

HISTIOCYTOSIS, MALIGNANT

CHEMICALLY INDUCED

True malignant histiocytosis developed during chemotherapy for mediastinal immature teratoma. Sasou S, et al. **Hum Pathol** 1996 Oct;27(10):1099-103

CLASSIFICATION

Contemporary classification of histiocytic disorders. The WHO Committee On Histiocytic/Reticulum Cell Proliferations. Reclassification Working Group of the Histiocyte Society. Favara BE, et al. **Med Pediatr Oncol** 1997 Sep;29(3):157-66 (66 ref.)

COMPLICATIONS

Malignant histiocytosis manifesting as superior vena caval syndrome in a child. Gomber S, et al. **Int J Dermatol** 1996 Jul;35(7):505-9

DIAGNOSIS

Hepatic manifestation of malignant histiocytosis: a case study. Chow WC, et al. **Ann Acad Med Singapore** 1996 Nov; 25(6):804-7 (9 ref.)
Systemic hemophagocytosis masking the diagnosis of large cell non-Hodgkin lymphoma. Sandlund JT, et al. **Med Pediatr Oncol** 1997 Sep;29(3):167-9
What syndrome is this? Ricci G, et al. **Pediatr Dermatol** 1997 Jan-Feb;14(1):49-52

IMMUNOLOGY

CD30-positive T cell lymphoma of the intestine, complicating ulcerative colitis. Tsutsuml Y, et al. **Pathol Int** 1996 May;46(5):384-8

PATHOLOGY

Malignant histiocytosis presenting as multiple erythematous plaques and cutaneous depigmentation. Akiyama M, et al. **Am J Dermatopathol** 1997 Jun;19(3):299-302
Thyroid involvement by malignant histiocytosis of Langerhans' cell type. Kitahama S, et al. **Clin Endocrinol (Oxf)** 1996 Sep;45(3):357-63
Falciparum malaria: IX. Bone marrow changes mimicking malignant histiocytosis. A case report [letter] el-Shoura SM. **Parasite** 1994 Sep;1(3):287
Epstein-Barr virus (EBV)-induced CD30+ natural killer cell-type malignancy resembling malignant histiocytosis: malignant transformation in chronic active EBV infection associating hypogammaglobulinemia. Tsutsumi Y, et al. **Pathol Int** 1997 Jun;47(6):384-92

VETERINARY

Malignant histiocytosis in a Bernese mountain dog presenting as a mandibular mass. Carioto L. **Can Vet J** 1997 Feb; 38(2):105-7
Malignant fibrous histiocytoma and malignant histiocytosis in the dog--convergent or divergent phenotypic differentiation? Kerlin RL, et al. **Vet Pathol** 1996 Nov; 33(6):713-6

VIROLOGY

Analysis of the Epstein-Barr viral genome in so-called malignant histiocytosis syndrome. Kobari S, et al. **Pathol Int** 1996 May;46(5):355-63

HISTIOCYTOSIS, NON-LANGERHANS-CELL

Hemophagocytic lymphohistiocytosis: a lethal disorder of immune regulation [editorial; comment] Filipovich AH. **J Pediatr** 1997 Mar;130(3):337-8. Comment on: J Pediatr 1997 Mar;130(3):352-7. Comment on: J Pediatr 1997 Mar;130(3):358-65. Comment on: J Pediatr 1997 Mar;130(3):467-70.
EBV reactivation associated with Hodgkin's disease relapse and fatal hemophagocytic syndrome [letter] Mounier N, et al. **Leukemia** 1996 Nov;10(11):1848

BLOOD

Serum lipids in adult patients with hemophagocytic syndrome [letter] Tsuda H, et al. **Am J Hematol** 1996 Dec;53(4):285

CLASSIFICATION

[Erdheim-Chester disease. Survey of a rare non-Langerhans histiocytosis (editorial)] Veyssier-Belot C, et al. **J Fr Ophtalmol** 1997;20(5):331-2 **(Fre)**

COMPLICATIONS

Reactive haemophagocytic syndrome in AIDS [letter] Tiab M, et al. **AIDS** 1996 Jan;10(1):108-11
Reactive hemophagocytic syndrome and Hodgkin's disease [letter] Chim CS, et al. **Am J Hematol** 1997 May; 55(1):49-50
Subcutaneous angiocentric T-cell lymphoma associated with fatal hemophagocytic syndrome. Baselga E, et al. **Int J Dermatol** 1997 May;36(5):363-7
Diffuse normolipidemic plane xanthomas with monoclonal gammopathy presenting as urticarial plaques. Loo DS, et al. **J Am Acad Dermatol** 1996 Nov;35(5 Pt 2):829-32
Adult onset Still's disease associated hemophagocytosis. Kumakura S, et al. **J Rheumatol** 1997 Aug;24(8):1645-8
Severe haemophagocytic syndrome in falciparum malaria. Anwar M, et al. **JPMA J Pak Med Assoc** 1995 Nov; 45(11):302-3
An unusual case of a splenic gamma/delta T-cell lymphoma with angiocentric tendency and haemophagocytic syndrome. Zabernigg A, et al. **Leuk Lymphoma** 1996 Nov; 23(5-6):631-4
[Multicentric histiocytosis with hematological involvement] Bouyssou-Gauthier ML, et al. **Ann Dermatol Venereol** 1996;123(8):460-3 (Eng. Abstr.) **(Fre)**
[Infantile visceral leishmaniasis: difficult diagnosis in cases complicated by hemophagocytosis (see comments)] Nadrid A, et al. **Arch Pediatr** 1996 Sep;3(9):881-3 (Eng. Abstr.). Comment in: Arch Pediatr 1997 Feb;4(2):198. **(Fre)**
[A case of atrial septal defect complicated by persistent left superior vena cava in whom hemophagocytic syndrome appeared after operation] Horikoshi M, et al. **Kyobu Geka** 1997 Jul;50(7):573-6 (Eng. Abstr.) **(Jpn)**
[Two cases of malignant lymphoma with initial symptoms like orbital cellulitis and complicated by hemophagocytosis] Nakajima A, et al. **Nippon Ganka Gakkai Zasshi** 1996 Aug; 100(8):641-9 (Eng. Abstr.) **(Jpn)**
[Diffuse B-cell lymphoma associated with hemophagocytic syndrome] Yamada K, et al. **Rinsho Ketsueki** 1996 Feb; 37(2):161-4 (Eng. Abstr.) **(Jpn)**

DIAGNOSIS

Reactive haemophagocytic syndrome in AIDS [letter] Tiab M, et al. **AIDS** 1996 Jan;10(1):108-11
Serum and urine beta-2-microglobulin in hemophagocytic syndrome. Hibi S, et al. **Cancer** 1995 Apr 1;75(7):1700-5
Differential diagnosis of hemophagocytic syndrome: underlying disorders and selection of the most effective treatment. Imashuku S. **Int J Hematol** 1997 Aug; 66(2):135-51 (175 ref.)
Two cases of malignant lymphoma complicated by hemophagocytosis resembling orbital cellulitis. Nakajima A, et al. **Jpn J Ophthalmol** 1997 May-Jun;41(3):186-91
A case of malignant lymphoma with hemophagocytic syndrome presenting as hepatic failure. Hino T, et al. **Kurume Med J** 1997;44(1):53-60
Primary infection by HHV-6 variant B associated with a fatal case of hemophagocytic syndrome. Portolani M, et al. **New Microbiol** 1997 Jan;20(1):7-11
Tumor on the trunk of a neonate. Le Gal FA, et al. **Pediatr Dermatol** 1996 Jan-Feb;13(1):65-8 (7 ref.)
Disseminated angiosarcoma presenting as a hemophagocytic syndrome in a renal allograft recipient. Dargent JL, et al. **Transpl Int** 1997;10(1):61-4
Hemophagocytic syndrome in a case of splenic large B-cell lymphoma. Büchi G, et al. **Tumori** 1996 Nov-Dec; 82(6):621-4
[Hyperferritinemia in Still syndrome in the adult and reactive hemophagocytic syndrome] Zollner RC, et al. **Med Klin** 1997 Aug 15;92(8):494-8 (Eng. Abstr.) **(Ger)**

DRUG THERAPY

Treatment of familial erythrophagocytic lymphohistiocytosis with cyclosporine A [see comments] Abella EM, et al. **J Pediatr** 1997 Mar;130(3):467-70. Comment in: J Pediatr 1997 Mar;130(3):337-8.

EPIDEMIOLOGY

Hemophagocytic syndrome (HPS) in children and adults. Tsuda H. **Int J Hematol** 1997 Apr;65(3):215-26 (91 ref.)
Hemophagocytic lymphohistiocytosis in infancy and childhood [see comments] Imashuku S, et al. **J Pediatr** 1997 Mar;130(3):352-7. Comment in: J Pediatr 1997 Mar;130(3):337-8.

ETIOLOGY

Epstein-Barr virus-associated hemophagocytic syndrome and fatal infectious mononucleosis. Okano M, et al. **Am J Hematol** 1996 Oct;53(2):111-5 (38 ref.)
Frequency and severity of central nervous system lesions in hemophagocytic lymphohistiocytosis. Haddad E, et al. **Blood** 1997 Feb 1;89(3):794-800
Bacteria-associated hemophagocytic syndrome in childhood acute lymphoblastic leukemia: report of two cases. Hsiao CC, et al. **Chung Hua Min Kuo Hsiao Erh Ko I Hsueh Hui Tsa Chih** 1996 Nov-Dec;37(6):466-70
Reactive hemophagocytic syndrome: a new presentation of disseminated histoplasmosis in patients with AIDS. Koduri PR, et al. **Clin Infect Dis** 1995 Dec;21(6):1463-5
A study of the possible etiologic association of Epstein-Barr virus with reactive hemophagocytic syndrome in Hong Kong Chinese. Wong KF, et al. **Hum Pathol** 1996 Nov; 27(11):1239-42
Hemophagocytic syndrome induced by Plasmodium falciparum malaria infection. Ohno T, et al. **Int J Hematol** 1996 Oct;64(3-4):263-6
Haemophagocytic syndrome in patients infected with the human immunodeficiency virus: nine cases and a review. Grateau G, et al. **J Infect** 1997 May;34(3):219-25 (34 ref.)
Hemophagocytic syndrome associated with Bacteroides fragilis infection in a patient with acute monoblastic leukemia. Bourquelot P, et al. **Leuk Lymphoma** 1996 Jun; 22(1-2):177-9
Haemophagocytic-histiocytic syndrome in renal transplantation. Kürşat S, et al. **Nephrol Dial Transplant** 1997 May;12(5):1058-60
[Natural killer cell lymphoma having a nodular shadow in the lung as an initial finding, developed to leukemia complicated with hemophagocytic syndrome at the time of relapse] Morimoto S, et al. **Rinsho Ketsueki** 1996 Aug; 37(8):682-7 (Eng. Abstr.) **(Jpn)**
[Influenza-virus associated hemophagocytic syndrome in a patient with pernicious anemia] Shirono K, et al. **Rinsho Ketsueki** 1996 Jun;37(6):511-3 (Eng. Abstr.) **(Jpn)**
[Seven cases of hemophagocytic syndrome complicated with childhood collagen diseases] Wada Y, et al. **Ryumachi** 1996 Aug;36(4):637-43 (Eng. Abstr.) **(Jpn)**

GENETICS

Treatment of familial erythrophagocytic lymphohistiocytosis with cyclosporine A [see comments] Abella EM, et al. **J Pediatr** 1997 Mar;130(3):467-70. Comment in: J Pediatr 1997 Mar;130(3):337-8.
Familial hemophagocytic lymphohistiocytosis (FHLH).

Caballes RL, et al. **Pathology** 1997 Feb;29(1):92–5

IMMUNOLOGY

Autoimmune-associated hemophagocytic syndrome.
Kumakura S, et al. **Am J Med** 1997 Jan;102(1):113–5

Cytokine production regulating Th1 and Th2 cytokines in hemophagocytic lymphohistiocytosis. Osugi Y, et al.
Blood 1997 Jun 1;89(11):4100–3

Characteristic immune abnormalities in hemophagocytic lymphohistiocytosis. Egeler RM, et al.
J Pediatr Hematol Oncol 1996 Nov;18(4):340–5

MICROBIOLOGY

Human T cell leukemia/lymphoma virus type I (HTLV-I) and Pneumocystis carinii associated with T cell proliferation and haemophagocytic syndrome [letter] Roudier M, et al. **Leukemia** 1997 Mar;11(3):453–4

PATHOLOGY

Hemophagocytosis by rhabdomyosarcoma cells in bone marrow [letter] Tsoi WC, et al. **Am J Hematol** 1997 Apr; 54(4):340–2

Periorbital papules and nodules. Necrobiotic xanthogranuloma. Lebey PB, et al. **Arch Dermatol** 1997 Jan;133(1):99, 102

Haemophagocytic lymphohistiocytosis in association with granular lymphocyte proliferative disorders in early childhood: characteristic bone marrow morphology. Imashuku S, et al. **Br J Haematol** 1997 Mar;96(4):708–14

The non-Langerhans' cell histiocytoses in childhood. Burgdorf WH, et al. **Cutis** 1996 Sep;58(3):201–7 (69 ref.)

Subcutaneous angiocentric T-cell lymphoma associated with fatal hemophagocytic syndrome. Baselga E, et al.
Int J Dermatol 1997 May;36(5):363–7

Neuropathologic findings and neurologic symptoms in twenty-three children with hemophagocytic lymphohistiocytosis [see comments] Henter JI, et al.
J Pediatr 1997 Mar;130(3):358–65. Comment in: J Pediatr 1997 Mar;130(3):337–8.

Reticulohistiocytoma involving the skin, subcutaneous tissue and a regional lymph node. Suwabe H, et al.
Pathol Int 1996 Jul;46(7):531–7

Familial hemophagocytic lymphohistiocytosis (FHLH). Caballes RL, et al. **Pathology** 1997 Feb;29(1):92–5

[Histiocytosis] Veyssier-Belot C, et al. **Rev Med Interne** 1996; 17(11):911–23 (70 ref.) (Eng. Abstr.) **(Fre)**

THERAPY

Dramatic efficacy of antithymocyte globulins in childhood EBV-associated haemophagocytic syndrome [letter] Perel Y, et al. **Acta Paediatr** 1997 Aug;86(8):911

Hemophagocytic syndrome responding to high-dose gammaglobulin as presenting feature of sarcoidosis [letter] Balduini CL, et al. **Am J Hematol** 1997 Jan;54(1):88–9

Successful treatment of non-familial haemophagocytic lymphohistiocytosis with interferon and gammaglobulin. Estlin EJ, et al. **Arch Dis Child** 1996 Nov;75(5):432–5

Successful correction of hemophagocytic lymphohistiocytosis with related or unrelated bone marrow transplantation. Baker KS, et al. **Blood** 1997 May 15; 89(10):3857–63

Successful bone marrow transplantation from an HLA-identical unrelated donor in a patient with hemophagocytic lymphohistiocytosis. Adachi S, et al.
Bone Marrow Transplant 1997 Jan;19(2):183–5

Prolonged resolution of hemophagocytic lymphohistiocytosis following myeloablative chemotherapy and subsequent autologous peripheral blood stem cell transplantation. Ohga S, et al. **Bone Marrow Transplant** 1997 Mar;19(6):633–5

Successful engraftment of haploidentical stem cell transplant for familial haemophagocytic lymphohistiocytosis using both bone marrow and peripheral blood stem cells. Collins P, et al. **Br J Haematol** 1997 Mar;96(3):644–6

Successful treatment of juvenile rheumatoid arthritis associated haemophagocytic syndrome by cyclosporin A with transient exacerbation by conventional-dose G-CSF [letter; comment] Quesnel B, et al. **Br J Haematol** 1997 May;97(2):508–10. Comment on: Br J Haematol 1996 Jun;93(3):572–5.

HLH-94: a treatment protocol for hemophagocytic lymphohistiocytosis. HLH study Group of the Histiocyte Society. Henter JI, et al. **Med Pediatr Oncol** 1997 May; 28(5):342–7

[Aged patient with virus-associated hemophagocytic syndrome successfully treated with large dose gamma-globulin therapy] Koda K, et al.
Nippon Naika Gakkai Zasshi 1996 May 10;85(5):763–4 **(Jpn)**

VETERINARY

Bone marrow cytological findings in 4 dogs and a cat with hemophagocytic syndrome. Walton RM, et al.
J Vet Intern Med 1996 Jan-Feb;10(1):7–14

VIROLOGY

Dramatic efficacy of antithymocyte globulins in childhood EBV-associated haemophagocytic syndrome [letter] Perel Y, et al. **Acta Paediatr** 1997 Aug;86(8):911

Epstein-Barr virus--Associated hemophagocytic syndrome. A cause of fever of unknown origin in human immunodeficiency virus infection. Albrecht H, et al.
Arch Pathol Lab Med 1997 Aug;121(8):853–8

Parvovirus B19-associated haemophagocytic syndrome with lymphadenopathy resembling histiocytic necrotizing lymphadenitis (Kikuchi's disease). Yufu Y, et al.
Br J Haematol 1997 Mar;96(4):868–71

Human T cell leukemia/lymphoma virus type I (HTLV-I) and Pneumocystis carinii associated with T cell proliferation and haemophagocytic syndrome [letter] Roudier M, et al. **Leukemia** 1997 Mar;11(3):453–4

Analysis of the Epstein-Barr viral genome in so-called malignant histiocytosis syndrome. Kobari S, et al.
Pathol Int 1996 May;46(5):355–63

[Lymphohistiocyte activation syndromes associated with Epstein-Barr virus] Stéphan JL, et al.
Pathol Biol (Paris) 1997 Feb;45(2):131–6 (23 ref.) (Eng. Abstr.) **(Fre)**

HISTIOCYTOSIS, SEA-BLUE see **SEA-BLUE HISTIOCYTE SYNDROME**

HISTIOCYTOSIS, SINUS

COMPLICATIONS

Cutaneous Rosai-Dorfman disease manifestating as recurrent breast tumor: a case report. Wang JS, et al.
Chung Hua I Hsueh Tsa Chih (Taipei) 1997 Apr; 59(4):269–73

Sinus histiocytosis with massive lymphadenopathy. Mohan A, et al. **J Assoc Physicians India** 1996 Jun;44(6):418–9

Rosai-Dorfman disease and juvenile xanthogranuloma [letter] Jiménez-Heffernan JA, et al. **Pediatr Pathol Lab Med** 1997 May-Jun;17(3):527–30

[Sinus histiocytosis with massive lymphadenopathy with complete occlusion of the superior and inferior vena cava] Runde J, et al. **Klin Padiatr** 1997 Jan-Feb;209(1):39–42 (Eng. Abstr.) **(Ger)**

DIAGNOSIS

Cytologic features of sinus histiocytosis with massive lymphadenopathy. A report of three cases. Stastny JF, et al. **Acta Cytol** 1997 May-Jun;41(3):871–6

Extranodal sinus histiocytosis with massive lymphadenopathy presenting as an intramedullary spinal cord tumor: a case report. Jones MP, et al. **Am J Hematol** 1997 Mar; 54(3):253–7

Rosai-Dorfman disease presenting as a meningioma. Panicker NK, et al. **Indian J Cancer** 1996 Dec;33(4):192–4

[Uncommon tumor and pseudotumor lesions of the submandibular fossa] Vilde F, et al.
Ann Otolaryngol Chir Cervicofac 1996;113(5):285–8 (Eng. Abstr.) **(Fre)**

DRUG THERAPY

Sinus histiocytosis with massive lymphadenopathy: complete response to low-dose interferon-alpha [letter] Palomera L, et al. **J Clin Oncol** 1997 May;15(5):2176

Steroid-responsive Rosai-Dorfman disease. Antonius JI, et al. **Pediatr Hematol Oncol** 1996 Nov-Dec;13(6):563–70

ETIOLOGY

Sinus histiocytosis with massive lymphadenopathy (Rosai-Dorfman disease): report of a patient with isolated renotesticular involvement after cure of non-Hodgkin's lymphoma. Lossos IS, et al. **Ann Hematol** 1997 Jan; 74(1):41–4 (28 ref.)

Inflammatory pseudotumour and Rosai-Dorfman disease of soft tissue: a histological continuum? Govender D, et al.
J Clin Pathol 1997 Jan;50(1):79–81

MICROBIOLOGY

Immunolocalization of cell-wall-deficient forms of Mycobacterium tuberculosis complex in sarcoidosis and in sinus histiocytosis of lymph nodes draining carcinoma. Alavi HA, et al. **Histol Histopathol** 1996 Jul;11(3):683–94

PATHOLOGY

Rosai-Dorfman disease presenting with multiple orbital and intracranial masses. Resnick DK, et al.
Acta Neuropathol (Berl) 1996;91(5):554–7

Breast involvement by extranodal Rosai-Dorfman disease: report of seven cases. Green I, et al. **Am J Surg Pathol** 1997 Jun;21(6):664–8

The Rosai-Dorfman syndrome in a 17-year-old woman with transformation into high-grade lymphoma. A rare disease presentation [letter] Krzemieniecki K, et al. **Ann Oncol** 1996 Nov;7(9):977

Asymptomatic nodules on the chest. Cutaneous sinus histiocytosis (CSH) (cutaneous Rosai-Dorfman disease). Saenz-Santamaria MC, et al. **Arch Dermatol** 1997 Feb; 133(2):233, 236

Signet-ring sinus histiocytosis: a reactive disorder that mimics metastatic adenocarcinoma. Guerrero-Medrano J, et al. **Cancer** 1997 Jul 15;80(2):277–85

Fine-needle aspiration cytology of sinus histiocytosis with massive lymphadenopathy: a case report. Patel KD, et al.
Diagn Cytopathol 1996 Sep;15(3):221–3

Reply to sinus histiocytosis with massive lymphadenopathy (Rosai-Dorfman disease) [letter; comment]
Pérez-Guillermo M, et al. **Diagn Cytopathol** 1997 Mar; 16(3):285. Comment on: Diagn Cytopathol 1995 Nov;13(4):333–5.

Rosai-Dorfman disease in the breast. Hammond LA, et al.
Histopathology 1996 Dec;29(6):582–4

Sclerotic lesion of the tibia without involvement of lymph nodes. Report of an unusual case of Rosai-Dorfman disease. Patterson FR, et al. **J Bone Joint Surg Am** 1997 Jun; 79(6):911–6

Isolated extranodal sinus histiocytosis presenting as an intramedullary spinal cord tumor with paraplegia. Case report. Osenbach RK. **J Neurosurg** 1996 Oct;85(4):692–6

Extranodal Rosai-Dorfman disease in childhood. Remadi S, et al. **Pathol Res Pract** 1996 Oct;192(10):1007–15

[Sinus histiocytosis with massive lymphadenopathy (Rosai-Dorfman disease). Bone manifestations] Pavlovskaia AI, et al. **Arkh Patol** 1997 May-Jun;59(3):62–6 (Eng. Abstr.) **(Rus)**

THERAPY

Egg shell nodal calcification in a patient with sinus histiocytosis with massive lymphadenopathy treated with interferon. Silvers AR, et al. **AJNR Am J Neuroradiol** 1996 Feb;17(2):361–3

ULTRASONOGRAPHY

[Rosai-Dorfman lymphadenopathy, a rare reactive lymphoproliferative disease. How valid are ultrasound morphologic criteria in lymph node involvement?] Grötz KA, et al. **Ultraschall Med** 1997 Apr;18(2):72–9 (44 ref.) (Eng. Abstr.) **(Ger)**

HISTIOCYTOSIS X see **HISTIOCYTOSIS, LANGERHANS-CELL**

HISTOCOMPATIBILITY

CD6+ T cell depleted allogeneic bone marrow transplantation from genotypically HLA nonidentical related donors. Soiffer RJ, et al.
Biol Blood Marrow Transplant 1997 Apr;3(1):11–7

Does the adhesion molecule CD31 act as a minor histocompatibility antigen? [letter] Da Costa L, et al.
Blood 1997 Aug 1;90(3):1332

Treatment of leukemia with partially matched related bone marrow transplantation. Munn RK, et al.
Bone Marrow Transplant 1997 Mar;19(5):421–7

11th European Congress on Histocompatibility. Budapest, Hungary, 2–5 April, 1997. Abstracts.
Eur J Immunogenet 1997 Apr;24 Suppl 1:1–132

Gene therapy of spontaneous canine melanoma and feline fibrosarcoma by intratumoral administration of histoincompatible cells expressing human interleukin-2. Quintin-Colonna F, et al. **Gene Ther** 1996 Dec; 3(12):1104–12

12th International Histocompatibility Conference. Genetic diversity of HLA: functional and medical implications. Paris, France, June 9–12, 1996. Abstracts.
Hum Immunol 1996 Apr 15-May;47(1–2):1–184

The American Society for Histocompatibility and Immunogenetics 22nd annual meeting. San Diego, California, October 11–15, 1996. Abstracts.
Hum Immunol 1996;49 Suppl 1:1–147

Autoimmunity in dilated cardiomyopathy and the major histocompatibility complex. Limas CJ. **Int J Cardiol** 1996 May;54(2):113–6 (29 ref.)

Results of allogeneic bone marrow transplants for leukemia using donors other than HLA-identical siblings. Szydlo R, et al. **J Clin Oncol** 1997 May;15(5):1767–77

HLA antibodies specific for cryopreserved heart valve "homografts" in children. den Hamer I, et al.
J Thorac Cardiovasc Surg 1997 Feb;113(2):417–9

Programmed bone-marrow donor for a leukaemic sibling, 10 years on [letter] [see comments] Burgio GR, et al.
Lancet 1997 May 17;349(9063):1482. Comment in: Lancet 1997 Jul 26;350(9073):297.

Allocation of cadaver kidneys [letter; comment] Eisinger AJ. **Lancet** 1996 Nov 2;348(9036):1247–8. Comment on: Lancet 1996 Aug 17;348(9025):453–4.

Increased interferon-gamma mRNA expression following alloincompatible myoblast transplantation is inhibited by FK506. Guérette B, et al. **Muscle Nerve** 1996 Jul; 19(7):829–35

Role of ABO and Lewis blood group antigens in donor-recipient compatibility of corneal transplantation rejection. Roy R, et al. **Ophthalmology** 1997 Mar; 104(3):508–12

Influence of HLA-DRB1* incompatibility on the occurrence of rejection episodes and graft survival in serologically HLA-DR-matched renal transplant combinations. Lardy NM, et al. **Transplantation** 1997 Aug 27;64(4):612–6

GENETICS

Molecular genetic mapping of the mouse male sterility and histoincompatibility (mshi) mutation on proximal chromosome 10. Turner JP, et al. **Genomics** 1997 Jan 1; 39(1):1–7

Histocompatibility genes in antiphospholipid antibody syndrome. Wilson WA. **Lupus** 1996 Aug;5(4):259–62

A new mouse mutation causing male sterility and

HISTOCOMPATIBILITY

histoincompatibility. Ward-Bailey PF, et al. **Mamm Genome** 1996 Nov;7(11):793-7

IMMUNOLOGY

ABO antigen blood-group compatibility in corneal transplantation. Borderie VM, et al. **Cornea** 1997 Jan; 16(1):1-6

Donor-specific transfusions enhance the immunosuppressive effects of single-dose cyclosporine A and CTLA4-Ig but do not result in long-term graft acceptance in a histoincompatible model of rat lung allograft rejection. Jordan SC, et al. **Transpl Immunol** 1996 Mar;4(1):33-7

HISTOCOMPATIBILITY ANTIGEN DNA PROBES see **DNA PROBES, HLA**

HISTOCOMPATIBILITY ANTIGENS

MHC-derived peptides and the CD4+ T-cell repertoire: implications for autoimmune disease. Baum H, et al. **Cytokines Cell Mol Ther** 1997 Jun;3(2):115-25 (68 ref.)

Molecular mimicry in the MHC: hidden clues to autoimmunity? [see comments] Baum H, et al. **Immunol Today** 1996 Feb;17(2):64-70 (46 ref.). Comment in: Immunol Today 1997 Feb;18(2):96-7.

MHCPEP, a database of MHC-binding peptides: update 1996. Brusic V, et al. **Nucleic Acids Res** 1997 Jan 1; 25(1):269-71

Organization of RT1-DOa and RT1-DOb loci. Kakinuma M, et al. **Transplant Proc** 1997 May;29(3):1670

Inhibition of acute graft-versus-host disease in (LEW.1W x LEW.1A)F1 rats using 9-(2-phosphonomethoxyethyl)-2,6-diaminopurine. Otová B, et al. **Transplant Proc** 1997 May;29(3):1736-7

ANALYSIS

Susceptibility to clinically manifest cyclosporine A (CsA)-induced autoimmune disease is associated with interferon-gamma (IFN-gamma)-producing CD45RC+RT6- T helper cells [published erratum appears in Clin Exp Immunol 1997 Jan;107(1):224] Beijleveld LJ, et al. **Clin Exp Immunol** 1996 Sep;105(3):486-96

Cluster analysis. Sopp P. **Vet Immunol Immunopathol** 1996 Aug;52(4):237-44

BIOSYNTHESIS

Persistent production of inflammatory and anti-inflammatory cytokines and associated MHC and adhesion molecule expression at the site of infection and disease in experimental Trypanosoma cruzi infections. Zhang L, et al. **Exp Parasitol** 1996 Nov;84(2):203-13

1,25-Dihydroxyvitamin D3 reduces MHC antigen expression on pancreatic beta-cells in vitro. Hahn HJ, et al. **Transplant Proc** 1997 Jun;29(4):2156-7

HgCl2 and IL4 differentially modify expression of major histocompatibility complex class II molecules RT1.B and RT1.D in B lymphocytes from brown Norway and Lewis rats. Roos A, et al. **Transplant Proc** 1997 May;29(3):1675-6

Identification and differentiation of transcribed major histocompatibility complex class II RT1B alpha and RT1B beta alleles from laboratory rats. Wedekind D, et al. **Transplant Proc** 1997 May;29(3):1668-9

BLOOD

Serologically defined lymphocyte alloantigens in Spanish sheep. Garrido JJ, et al. **Exp Clin Immunogenet** 1995; 12(4):268-71

CHEMISTRY

MHC restriction in three dimensions: a view of T cell receptor/ligand interactions. Bjorkman PJ. **Cell** 1997 Apr 18;89(2):167-70 (14 ref.)

Multiple class I motifs revealed by sequencing naturally processed peptides eluted from rat T cell MHC molecules. Burrows GG, et al. **J Neurosci Res** 1997 Jul 1;49(1):107-16

Molecular characterization of mouse T-cell ecto-ADP-ribosyltransferase Rt6: cloning of a second functional gene and identification of the Rt6 gene products. Hollmann C, et al. **Mol Immunol** 1996 Jun;33(9):807-17

Milestones in the molecular structure of the major histocompatibility complex. Chelvanayagam G, et al. **Protein Eng** 1997 May;10(5):471-4 (58 ref.)

Localization of tolerogenic epitopes in the alpha 1 helical region of the rat class I major histocompatibility complex molecule. Stepkowski SM, et al. **Transplant Proc** 1997 May; 29(3):1663-4

Biochemical and functional characterization of soluble multivalent MHC L(d)/Fc gamma 1 and L(d)/Fc mu chimeric proteins loaded with specific peptides. Lepley DM, et al. **Transplantation** 1997 Mar 15;63(5):765-74

GENETICS

"Natural" RT6-1 and RT6-2 "knock-out" mice. Matthes M, et al. **Adv Exp Med Biol** 1997;419:271-4

Application of three different methods to analyse fibre-FISH results obtained using four lambda clones from the porcine MHC III region. Sjöberg A, et al. **Chromosome Res** 1997 Jun;5(4):247-53

Aberrant 11beta-hydroxysteroid dehydrogenase-1 activity in the cpk mouse: implications for regulation by the Ke 6 gene. Aziz N, et al. **Endocrinology** 1996 Dec;137(12):5581-8

Primate Mhc-E and -G alleles. Arnaiz-Villena A, et al. **Immunogenetics** 1997;46(4):251-66 (24 ref.)

Cloning, structural analysis, and mapping of the B30 and B7 multigenic families to the major histocompatibility complex (MHC) and other chromosomal regions. Henry J, et al. **Immunogenetics** 1997;46(5):383-95

RT1.P, rat class Ib genes related to mouse TL: evidence that CD1 molecules but not authentic TL antigens are expressed by rat thymus. Matsuura A, et al. **Immunogenetics** 1997;46(4):293-306

Histocompatibility antigen(s) linked to Rfp-Y (Mhc-like) genes in the chicken. Pharr GT, et al. **Immunogenetics** 1996; 45(1):52-8

Physical mapping and structural analysis of new gene families RT1.S and Rps2r in the grc region of the rat major histocompatibility complex. Salgar SK, et al. **Immunogenetics** 1997;45(6):353-64

Nucleotide sequences of three distinct cDNA clones coding for the rat class I heavy chain RT1n antigen. Wang M, et al. **Immunogenetics** 1996;45(1):73-5

Structure of the gene encoding the rat T cell ecto-ADP-ribosyltransferase RT6. Haag FA, et al. **J Immunol** 1996 Sep 1;157(5):2022-30

Expression in BALB/c and C57BL/6 mice of Rt6-1 and Rt6-2 ADP-ribosyltransferases that differ in enzymatic activity: C57BL/6 Rt6-1 is a natural transferase knockout. Kanaitsuka T, et al. **J Immunol** 1997 Sep 15;159(6):2741-9

Analysis of polymorphism in porcine MHC class I genes: alterations in signals recognized by human cytotoxic lymphocytes. Sullivan JA, et al. **J Immunol** 1997 Sep 1; 159(5):2318-26

Participation of non-major histocompatibility antigen complex gene in experimental autoimmune uveitis. Yoshikawa K, et al. **Jpn J Ophthalmol** 1995;39(4):347-52

Molecular characterization of mouse T-cell ecto-ADP-ribosyltransferase Rt6: cloning of a second functional gene and identification of the Rt6 gene products. Hollmann C, et al. **Mol Immunol** 1996 Jun;33(9):807-17

Organization of RT1-DOa and RT1-DOb loci. Kakinuma M, et al. **Transplant Proc** 1997 May;29(3):1670

Markers for interspecies relationship in the RT1 complex. Lambracht D, et al. **Transplant Proc** 1997 May;29(3):1665-7

Major histocompatibility complex haplotype RT1av1 is associated with relapsing/remitting experimental autoimmune encephalomyelitis. Wallström E, et al. **Transplant Proc** 1997 May;29(3):1686-9

Induction of insulin-dependent diabetes mellitus in PVG.RT1u rats. Whalen BJ, et al. **Transplant Proc** 1997 May;29(3):1684-5

IMMUNOLOGY

Stable mixed hematopoietic chimerism in DLA-identical littermate dogs given sublethal total body irradiation before and pharmacological immunosuppression after marrow transplantation. Storb R, et al. **Blood** 1997 Apr 15; 89(8):3048-54

Tacrolimus (FK506) and methotrexate regimens to prevent graft-versus-host disease after unrelated dog leukocyte antigen (DLA) nonidentical marrow transplantation. Yu C, et al. **Bone Marrow Transplant** 1996 Apr;17(4):649-53

Human natural killer cells account for non-MHC class I-restricted cytolysis of porcine cells. Donnelly CE, et al. **Cell Immunol** 1997 Feb 1;175(2):171-8

Killing of rat adenocarcinoma 13762 in situ by adoptive transfer of CD4+ anti-tumor T cells requires tumor expression of cell surface MHC class II molecules. Frey AB, et al. **Cell Immunol** 1997 May 25;178(1):79-90

Major histocompatibility complex and T cell receptor interaction of the P91A tum- peptide. McCormick D, et al. **Eur J Immunol** 1996 Dec;26(12):2895-902

Specific rejection immunity against src Oncogene-induced tumours and involvement of the major histocompatibility complex. Svoboda J, et al. **Folia Biol (Praha)** 1996; 42(1-2):41-5

The 1996 Nobel prizes in science. Unveiling an antiviral defense. Rennie J, et al. **Sci Am** 1997 Jan;276(1):16, 18

Curing rat glioblastoma: immunotherapy or graft rejection? [letter; comment] Beutler AS, et al. **Science** 1997 Apr 4; 276(5309):20-1. Comment on: Science 1993 Jan 1;259(5091):94-7.

Rat MHC class I peptides are immunogenic. Zavazava N, et al. **Transpl Int** 1996;9 Suppl 1:S337-9

Impact of RT1.C-encoded MHC antigens on host-versus-graft and graft versus-host reactions in a model of small bowel transplantation in the rat. Fändrich F, et al. **Transplant Proc** 1997 May;29(3):1730-1

Role of non-major histocompatibility complex antigens in the rejection of transplanted myoblasts. Boulanger A, et al. **Transplantation** 1997 Mar 27;63(6):893-9

Mechanisms of indirect allorecognition in graft rejection: class II MHC allopeptide-specific T cell clones transfer delayed-type hypersensitivity responses in vivo. Chen W, et al. **Transplantation** 1996 Sep 27;62(6):705-10

Induction of transplantation tolerance by chimeric donor/recipient class I RT1.Aa molecules. Ghobrial RR, et al. **Transplantation** 1996 Oct 15;62(7):1002-10

Direct recognition of rat MHC antigens on rat antigen-presenting cells by mouse CD4+ and CD8+ T cells and establishment of T cell clones exhibiting a direct recognition pathway. Hirota T, et al. **Transplantation** 1997 Mar 15;63(5):705-10

Graft-infiltrating cells in rats receiving orthotopic semiallogeneic small intestine transplantation with portal or systemic venous drainage. Sullivan B, et al. **Transplantation** 1996 Sep 27;62(6):715-21

Treatment of relapsing experimental autoimmune encephalomyelitis with largely MHC-matched allogeneic bone marrow transplantation. van Gelder M, et al. **Transplantation** 1996 Sep 27;62(6):810-8

Proceedings of the 3rd workshop on ruminant leukocyte antigens. Davis, California, 16 July 1995. **Vet Immunol Immunopathol** 1996 Aug;52(4):213-468

Summary report of the Second Equine Leucocyte Antigen Workshop. Lunn DP, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1-4):159-61

Cluster analysis. Sopp P. **Vet Immunol Immunopathol** 1996 Aug;52(4):237-44

Studies of canine leucocyte antigens: a significant advance in canine immunology. Williams DL. **Vet J** 1997 Jan; 153(1):31-9 (50 ref.)

ISOLATION & PURIFICATION

Structure of the gene encoding the rat T cell ecto-ADP-ribosyltransferase RT6. Haag FA, et al. **J Immunol** 1996 Sep 1;157(5):2022-30

METABOLISM

Mouse RT6 locus 1 and rat RT6.2 are NAD+. Arginine ADP-ribosyltransferases with auto-ADP-ribosylation activity. Bortell R, et al. **Adv Exp Med Biol** 1997; 419:169-73

Molecular characterization of rat T lymphocyte alloantigen RT6.1 as an ADP-ribosyltransferase. Maehama T, et al. **Adv Exp Med Biol** 1997;419:181-3

Expression of RT6 on activated rat T cells. Wonigeit K. **Adv Exp Med Biol** 1997;419:257-64

Capture and processing of exogenous antigens for presentation on MHC molecules. Watts C. **Annu Rev Immunol** 1997;15:821-50 (188 ref.)

Trafficking and assembly of MHC molecules: how viruses elude the immune system. Ploegh HL. **Cold Spring Harb Symp Quant Biol** 1995;60:263-6 (8 ref.)

Definition of an extended MHC class II-peptide binding motif for the autoimmune disease-associated Lewis rat RT1.BL molecule. Wauben MH, et al. **Int Immunol** 1997 Feb;9(2):281-90

Glutamic acid 207 in rodent T-cell RT6 antigens is essential for arginine-specific ADP-ribosylation. Hara N, et al. **J Biol Chem** 1996 Nov 22;271(47):29552-5

Tissue immunogenicity: the role of MHC antigen and the lymphocyte costimulator B7-1. Coulombe M, et al. **J Immunol** 1996 Dec 1;157(11):4790-5

Hold your enemies closer [editorial] **Nat Struct Biol** 1996 Nov;3(11):895-6

Rat T cell differentiation alloantigens RT6.1 and RT6.2 are NAD(+)-metabolizing ecto-enzymes that differ in their enzymatic activities. Haag F, et al. **Transplant Proc** 1997 May;29(3):1699-700

PHYSIOLOGY

Uncovered: the family relationship of a T-cell-membrane protein and bacterial toxins. Koch-Nolte F, et al. **Immunol Today** 1996 Sep;17(9):402-5 (30 ref.)

HISTOCOMPATIBILITY ANTIGENS CLASS I

Detection of HLA class I-specific antibodies by the QuikScreen enzyme-linked immunosorbent assay. Lucas DP, et al. **Clin Diagn Lab Immunol** 1997 May;4(3):252-7

How to recognize a foreign submarine. Kärre K. **Immunol Rev** 1997 Feb;155:5-9 (31 ref.)

Trypanosoma cruzi infection in MHC-deficient mice: further evidence for the role of both class I- and class II-restricted T cells in immune resistance and disease. Tarleton RL, et al. **Int Immunol** 1996 Jan;8(1):13-22

Putting a hold on "HLA-H'. The WHO Nomenclature Committee for Factors of the HLA System [letter; comment] Bodmer JG, et al. **Nat Genet** 1997 Mar; 15(3):234-5. Comment on: Nat Genet 1996 Aug;13(4):399-408.

Peptide-specific killing of antigen-presenting cells by a recombinant antibody-toxin fusion protein targeted to major histocompatibility complex/peptide class I complexes with T cell receptor-like specificity. Reiter Y, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4631-6

Influence of the thymus on transplantation tolerance in miniature swine. Yamada K, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1076

Reduced expression of SLA Class 1 antigens by intestinal epithelium of newborn piglets. Le Jan C, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1-2):167-72

[Peptide binding motif for HLA class I and autoimmune disease] Sakaguchi T, et al. **Nippon Rinsho** 1997 Jun; 55(6):1397-402 (22 ref.) (Eng. Abstr.) **(Jpn)**

ADVERSE EFFECTS

Decreased cytotoxic activity of natural killer cells in kidney allograft recipients treated with human HLA-derived peptide. Giral M, et al. **Transplantation** 1997 Apr 15; 63(7):1004-11

ANALYSIS

Uterine NK cells and trophoblast HLA class I molecules. King A, et al. **Am J Reprod Immunol** 1997 Jun;37(6):459–62

Effects of IFN–gamma, TNF–alpha and EGF on the expression of HLA class I antigen and the proliferation of human hepatocellular carcinoma HepG2 cells. Wang D, et al. **Anticancer Res** 1997 Jan–Feb;17(1A):181–8

HLA class I typing by one–dimensional isoelectric focusing and identification of the new variants in Thai population. Vejbaesya S, et al. **Asian Pac J Allergy Immunol** 1997 Mar; 15(1):21–7

Accurate quantitative analysis of cellular proteins using a computerised scanning–aided dot blot technique. Nouri AM, et al. **Br J Biomed Sci** 1996 Sep;53(3):187–92

MHC class I antigens and tumour–infiltrating leucocytes in laryngeal cancer: long–term follow–up. Esteban F, et al. **Br J Cancer** 1996 Dec;74(11):1801–4

Quantitative assessment of feline epidermal Langerhans cells. Saint–André Marchal I, et al. **Br J Dermatol** 1997 Jun; 136(6):961–5

Simultaneous detection of genetic and immunological markers in non–small cell lung cancer: prediction of metastatic potential of tumor. Zborovskaya I, et al. **Clin Exp Metastasis** 1996 Nov;14(6):490–500

Quantitative cytometry of MHC class I digestion from living cells. Galati G, et al. **Cytometry** 1997 Jan 1;27(1):77–83

Quantification of CD1a, HLA–DR, and HLA class I expression on viable human Langerhans cells and keratinocytes. Meunier L, et al. **Cytometry** 1996 Dec 15; 26(4):260–4

On quantification of CD1a, HLA–DR, and HLA class I expression on viable human Langerhans cells and keratinocytes [letter] Sprogøe–Jakobsen U, et al. **Cytometry** 1997 Aug 15;30(4):206–7

New monoclonal antibody diagnostic reagents for type I diabetes: differential lymphocyte surface antigen expression related to disease. Pinies JA, et al. **Diabetes** 1997 Mar; 46(3):363–71

Short–term culture of surface–biotinylated cells: application in non–radioactive analysis of surface protein shedding. Hausmann S, et al. **Immunol Lett** 1995 Dec;48(3):175–80

Distribution of endosomal, lysosomal, and major histocompatability complex markers in a monocytic cell line infected with Chlamydia psittaci. Ojcius DM, et al. **Infect Immun** 1997 Jun;65(6):2437–42

Structural and functional analysis of beta2 microglobulin abnormalities in human lung and breast cancer. Chen HL, et al. **Int J Cancer** 1996 Sep 17;67(6):756–63

Expression of major histocompatibility complex molecules in rodent retina. Immunohistochemical study. Zhang J, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1848–57

Expression of HLA class I antigens in skeletal muscle is a diagnostic marker in juvenile dermatomyositis. Topaloglu H, et al. **J Child Neurol** 1997 Jan;12(1):60–3

Major histocompatibility complex class I molecule expression is normal on peripheral blood lymphocytes from patients with insulin–dependent diabetes mellitus. Hao W, et al. **J Clin Invest** 1996 Oct 1;98(7):1613–8

Identification of a thymic epithelial cell subset sharing expression of the class Ib HLA–G molecule with fetal trophoblasts. Crisa L, et al. **J Exp Med** 1997 Jul 21; 186(2):289–98

MHC class I+/II– dendritic cells induce hapten–specific immune responses in vitro and in vivo. Kolesaric A, et al. **J Invest Dermatol** 1997 Oct;109(4):580–5

The distribution and abundance of MHC and ICAM–1 on Schwann cells in vitro. Lilje O, et al. **J Neuroimmunol** 1997 Jul;77(1):75–84

Enriched immune–environment of blood–brain barrier deficient areas of normal adult rats. Pedersen EB, et al. **J Neuroimmunol** 1997 Jun;76(1–2):117–31

Identification of neurotensin–related peptides in human thymic epithelial cell membranes and relationship with major histocompatibility complex class I molecules. Vanneste Y, et al. **J Neuroimmunol** 1997 Jun;76(1–2):161–6

Celiac disease in Down's syndrome with HLA serological and molecular studies. Failla P, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):303–6

Parental MHC antigen sharing and pregnancy wastage in captive pigtailed macaques. Knapp LA, et al. **J Reprod Immunol** 1996 Nov;32(1):73–88

Class I HLA antigens in spondyloarthropathy: observations in Alaskan Eskimo patients and controls. Boyer GS, et al. **J Rheumatol** 1997 Mar;24(3):500–6

MHC studies of the primary antiphospholipid antibody syndrome and of antiphospholipid antibodies in systemic lupus erythematosus. Goldstein R, et al. **J Rheumatol** 1996 Jul;23(7):1173–9

Prolonged survival of rat hepatic allografts pretreated with a single donor–specific blood transfusion: the distribution of donor cells expressing class I major histocompatibility complex antigens in the recipient. Yamaguchi Y, et al. **J Surg Res** 1996 Feb 15;61(1):23–9

Energy transfer methods for detecting molecular clusters on cell surfaces. Matko J, et al. **Methods Enzymol** 1997; 278:444–62 (56 ref.)

Presence of MHC–I and B–7 molecules in rat and human glioma cells expressing antisense IGF–I mRNA. Trojan J, et al. **Neurosci Lett** 1996 Jul 5;212(1):9–12

HLA class I and II antigens are partially co–clustered in the plasma membrane of human lymphoblastoid cells. Jenei A, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8; 94(14):7269–74

Immunohistochemistry of HLA–H, the protein defective in patients with hereditary hemochromatosis, reveals unique pattern of expression in gastrointestinal tract. Parkkila S, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2534–9

Tissue–specific HLA class I restricted CTL are a significant subpopulation of graft–infiltrating lymphocytes during rejection. Mohanakumar T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):87–8

[Analysis of HLA class I molecules using isoelectric focusing. Its application in selection of bone marrow donors] Kořínková P, et al. **Cas Lek Cesk** 1997 May 7;136(9):279–81 (Eng. Abstr.) **(Cze)**

BIOSYNTHESIS

Amnion epithelial cells, in contrast to trophoblast cells, express all classical HLA class I molecules together with HLA–G. Hammer A, et al. **Am J Reprod Immunol** 1997 Feb;37(2):161–71

Altered expression of human leukocyte antigen G (HLA–G) on extravillous trophoblasts in preeclampsia: immunohistological demonstration with anti–HLA–G specific antibody "87G" and anti–cytokeratin antibody "CAM5.2". Hara N, et al. **Am J Reprod Immunol** 1996 Dec; 36(6):349–58

Fetal exposure to interferon–gamma leads to induction of antigen–presenting molecules and leukocyte recruitment. Lee MS, et al. **Autoimmunity** 1997;25(3):147–55

The mechanism of down–regulation of major histocompatibility complex (MHC) class I antigens in highly oncogenic adenovirus 12–transformed cells. Hall KT, et al. **Biochem Soc Trans** 1997 May;25(2):353S

HLA class I alterations in head and neck squamous cell carcinoma. Murray AK, et al. **Biochem Soc Trans** 1997 May;25(2):266S

A Phase I clinical trial of immunotherapy with interferon–gamma gene–modified autologous melanoma cells: monitoring the humoral immune response. Abdel–Wahab Z, et al. **Cancer** 1997 Aug 1;80(3):401–12

Introduction of the interferon gamma gene into mouse T lymphoma cells with low MHC class I–expression results in selective induction of H–2Dk and concomitant enhanced metastasis. Geldhof AB, et al. **Cancer Immunol Immunother** 1996 Jul;42(6):329–38

Decreased expression of HLA class I on ocular melanoma cells following in vitro photodynamic therapy. Blom DJ, et al. **Cancer Lett** 1997 Jan 30;112(2):239–43

HLA class I expression on human ovarian carcinoma cells correlates with T–cell infiltration in vivo and T–cell expansion in vitro in low concentrations of recombinant interleukin–2. Kooi S, et al. **Cell Immunol** 1996 Dec 15; 174(2):116–28

Generation, intracellular transport and loading of peptides associated with MHC class I molecules. Koopmann JO, et al. **Curr Opin Immunol** 1997 Feb;9(1):80–8 (90 ref.)

Control of islet intercellular adhesion molecule–1 expression by interferon–alpha and hypoxia. Chakrabarti D, et al. **Diabetes** 1996 Oct;45(10):1336–43

Effect of interferon–alpha on MHC expression and influx of inflammatory cells on the rat eye. van Klink E, et al. **Doc Ophthalmol** 1996–97;92(1):17–28

Butyrate enhances major histocompatibility complex class I, HLA–DR and ICAM–1 antigen expression on differentiated human intestinal epithelial cells. Siavoshian S, et al. **Eur J Clin Invest** 1996 Sep;26(9):803–10

Normothermic ischemia induces major histocompatibility complex class I expression in hepatocytes. Gugenheim J, et al. **Eur Surg Res** 1996 Jul–Aug;28(4):256–61

Induction of MHC class I expression by the MHC class II transactivator CIITA. Martin BK, et al. **Immunity** 1997 May;6(5):591–600

Modification of membrane cholesterol level affects expression and clustering of class I HLA molecules at the surface of JY human lymphoblasts. Bodnár A, et al. **Immunol Lett** 1996 Dec;54(2–3):221–6

Effects of interferon–alpha treatment on neutrophil oxidative metabolism, lymphocyte proliferation and monocyte HLA class I antigen expression in patients with chronic hepatitis C. Piazzolla G, et al. **Immunopharmacol Immunotoxicol** 1996 Nov;18(4):529–48

The human immunodeficiency virus type 1 (HIV–1) Vpu protein interferes with an early step in the biosynthesis of major histocompatibility complex (MHC) class I molecules. Kerkau T, et al. **J Exp Med** 1997 Apr 7;185(7):1295–305

Generation of naturally processed peptide/MHC class I complexes is independent of the stability of endogenously synthesized precursors. Goth S, et al. **J Immunol** 1996 Sep 1;157(5):1894–904

The intracellular domain of the second chain of the interferon–gamma receptor is interchangeable between species. Muthukumaran G, et al. **J Interferon Cytokine Res** 1996 Dec;16(12):1039–45

Effect of hyperthermia on expression of histocompatibility antigens and heat–shock protein molecules on three human ocular melanoma cell lines. Blom DJ, et al. **Melanoma Res** 1997 Apr;7(2):103–9

Natural killer cells are the unique lymphocyte cell subset which do not express HLA–G. Teyssier M, et al. **Nat Immun** 1995 Sep;14(5–6):262–70

Human cytomegalovirus US3 impairs transport and maturation of major histocompatibility complex class I heavy chains. Jones TR, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11327–33

Expression of LA45 reactive beta 2–microglobulin free HLA class I alpha–chains on activated T–cells is regulated by internalization, constitutive and protein kinase C inducible release. Pickl WF, et al. **Tissue Antigens** 1996 Jul; 48(1):15–21

Expression of human leukocyte antigens class I and class II on cultured biliary epithelial cells after cytomegalovirus infection. Scholz M, et al. **Tissue Antigens** 1997 Jun; 49(6):640–3

Differential expression of the major histocompatibility antigens and ICAM–1 on bile duct epithelial cells in biliary atresia. Dillon PW, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):33–40

An in vitro model for studying the role of graft endothelial cells in rat heart allograft rejection: a study of the regulation and function of heart endothelial histocompatibility antigens and cell adhesion molecules. Derhaag JG, et al. **Transplant Proc** 1997 May;29(3):1717–8

MHC expression in organ transplants: lessons from the knock–out mice. Halloran PF, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1041–4

Ultraviolet B irradiation reduces the surface expression of conformationally correct class I and II histocompatibility antigens. Tambur AR, et al. **Transplant Proc** 1997 Sep; 29(6):2689–91

Nucleotide sequences of rat cDNA clones coding heavy chain class I major histocompatibility complex proteins. Wang M, et al. **Transplant Proc** 1997 May;29(3):1661–2

Syngeneic bone marrow cells expressing a single donor class I MHC molecule are more effective at inducing tolerance than donor bone marrow cells. Wong W, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1131

Syngeneic bone marrow expressing a single donor class I MHC molecule permits acceptance of a fully allogeneic cardiac allograft. Wong W, et al. **Transplantation** 1996 Nov 27;62(10):1462–8

Down–regulation of MHC class I synthesis by murine cytomegalovirus occurs in immortalized but not primary fibroblasts. Slater JS, et al. **Virology** 1997 Mar 3; 229(1):221–7

BLOOD

Elevated levels of soluble HLA class I (sHLA–I) in children with severe atopic dermatitis. Moore C, et al. **Ann Allergy Asthma Immunol** 1997 Aug;79(2):113–8

Elevated serum HLA class I levels coincide with acute and chronic graft–versus–host disease. Liem LM, et al. **Bone Marrow Transplant** 1997 Aug;20(3):227–34

Serum HLA class I antigen levels in allogeneic bone marrow transplantation: a possible marker of acute GVHD. Puppo F, et al. **Bone Marrow Transplant** 1996 May;17(5):753–8

Soluble fraction of class I human histocompatibility leukocyte antigens in the serum of liver transplant recipients. McMillan RW, et al. **Clin Transplant** 1997 Apr;11(2):98–103

Soluble HLA class I and class II molecule levels in serum and cerebrospinal fluid of multiple sclerosis patients. Filaci G, et al. **Hum Immunol** 1997 Apr 15;54(1):54–62

Soluble histocompatibility class I antigens and beta 2–microglobulin in pregnant females and cord blood samples. Inostroza J, et al. **Hum Immunol** 1997 Apr 15; 54(1):63–8

Soluble HLA class I antigens in pediatric patients with renal transplants from related living donors without acute rejection and treated with triple therapy. Tambutti ML, et al. **Hum Immunol** 1996 Oct;50(2):135–9

Serum HLA class I: clinical significance in organ transplantation [letter; comment] Burlingham WJ. **Immunol Today** 1996 Feb;17(2):99–100. Comment on: Immunol Today 1995 Mar;16(3):124–7.

Serum concentrations of soluble HLA–class I and CD8 forms in patients with viral hepatic disorders. Hagihara M, et al. **J Gastroenterol** 1997 Jun;32(3):338–43

Influence of anticoagulants on the level of soluble HLA class I and class II antigens measured in blood samples. Hausmann S, et al. **J Immunoassay** 1996 Aug;17(3):257–75

Long–term persistence of donor–derived, serum–soluble HLA–class I antigens in pediatric living–related donor liver transplantation. Hagihara M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1108–9

Value of circulating immune parameters in renal transplantation. Rebhandl W, et al. **Transplant Proc** 1997 May;29(3):1881–5

[A study of the association between HLA phenotype and serum concentration of soluble HLA class I] Matsuura H, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Apr; 20(2):102–7 (Eng. Abstr.) **(Jpn)**

[Soluble class HLA antigens in serum of patients with brain tumors] Turowski G, et al. **Pol Merkuriusz Lek** 1996 Dec; 1(6):410–1 (Eng. Abstr.) **(Pol)**

[The functional activity of class–I and –II HLA antigens in pulmonary tuberculosis] Selitskaia RP, et al. **Probl Tuberk** 1996;(1):47–9 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Soluble HLA class I and class II molecule levels in serum and cerebrospinal fluid of multiple sclerosis patients. Filaci G, et al. **Hum Immunol** 1997 Apr 15;54(1):54–62

CHEMISTRY

MHC class I and class II structures. Jones EY.

Curr Opin Immunol 1997 Feb;9(1):75-9 (39 ref.)

Major histocompatibility complex class I protein conformation altered by transmembrane potential changes. Bene L, et al. **Cytometry** 1997 Apr 1;27(4):353-7

Conservation of an alpha 2 domain within the teleostean world, MHC class I from the rainbow trout Oncorhynchus mykiss. Hansen JD, et al. **Dev Comp Immunol** 1996 Nov-Dec;20(6):417-25

Probing the stability of class I major histocompatibility complex (MHC) molecules on the surface of human cells. Edidin M, et al. **Immunogenetics** 1997;46(1):41-5

Structure of HLA molecules and immunosuppressive effects of HLA derived peptides. Krensky AM, et al. **Int Rev Immunol** 1996;13(3):173-85 (56 ref.)

Chemical denaturation and modification of ovalbumin alters its dependence on ubiquitin conjugation for class I antigen presentation. Michalek MT, et al. **J Immunol** 1996 Jul 15; 157(2):617-24

Prominence of beta 2-microglobulin, class I heavy chain conformation, and tapasin in the interactions of class I heavy chain with calreticulin and the transporter associated with antigen processing. Solheim JC, et al. **J Immunol** 1997 Mar 1;158(5):2236-41

Alternative peptide binding motifs of Qa-2 class Ib molecules define rules for binding of self and nonself peptides. Tabaczewski P, et al. **J Immunol** 1997 Sep 15; 159(6):2771-81

Topology of T cell receptor-peptide/class I MHC interaction defined by charge reversal complementation and functional analysis. Chang HC, et al. **J Mol Biol** 1997 Aug 15; 271(2):278-93

Analysis of naturally processed peptides eluted from HLA DRB1*0402 and *0404. Hayden JB, et al. **J Neurosci Res** 1996 Sep 15;45(6):795-802

Structural analysis of class I MHC molecules: the cytoplasmic domain is not required for cytoskeletal association, aggregation and internalization. Gur H, et al. **Mol Immunol** 1997 Feb;34(2):125-32

Beta 2-microglobulin and calnexin can independently promote folding and disulfide bond formation in class I histocompatibility proteins. Tector M, et al. **Mol Immunol** 1997 Apr;34(5):401-8

Computational determination of side chain specificity for pockets in class I MHC molecules. Vasmatzis G, et al. **Mol Immunol** 1996 Nov;33(16):1231-9

Stability of empty and peptide-loaded class II major histocompatibility complex molecules at neutral and endosomal pH: comparison to class I proteins. Reich Z, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2495-500

Biochemical characterization and crystalization of human Zn-alpha2-glycoprotein, a soluble class I major histocompatibility complex homolog. Sánchez LM, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4626-30

Structural comparison of major histocompatibility complex class I molecules and homology modelling of five distinct human leukocyte antigen-A alleles. Chelvanayagam G, et al. **Protein Eng** 1996 Dec;9(12):1151-64

On the calculation of binding free energies using continuum methods: application to MHC class I protein-peptide interactions. Froloff N, et al. **Protein Sci** 1997 Jun; 6(6):1293-301

Free energy mapping of class I MHC molecules and structural determination of bound peptides. Sezerman U, et al. **Protein Sci** 1996 Jul;5(7):1272-81

Crystal structure of the MHC class Ib molecule H2-M3. Wang CR, et al. **Res Immunol** 1996 Jun;147(5):313-21 (43 ref.)

Functions for MHC class I carbohydrates inside and outside the cell. Parham P. **Trends Biochem Sci** 1996 Nov; 21(11):427-33 (54 ref.)

CLASSIFICATION

Nomenclature for factors of the HLA system, update August/September 1996. Marsh SG. **Eur J Immunogenet** 1996 Dec;23(6):489-90

Nomenclature for factors of the HLA system, update July 1996. The WHO Nomenclature Committee for factors of the HLA system. Marsh SG. **Hum Immunol** 1997 Jan; 52(1):72

Implications for immunosurveillance of altered HLA class I phenotypes in human tumours. Garrido F, et al. **Immunol Today** 1997 Feb;18(2):89-95 (67 ref.)

Nomenclature for factors of the HLA system, update August/September 1996. Marsh SG. **Tissue Antigens** 1996 Dec;48(6):725-6

DRUG EFFECTS

Effects of ursodeoxycholic acid and chenodeoxycholic acid on major histocompatibility complex class I gene expression. Hirano F, et al. **J Gastroenterol** 1996 Feb; 31(1):55-60

Influence of anticoagulants on the level of soluble HLA class I and class II antigens measured in blood samples. Hausmann S, et al. **J Immunoassay** 1996 Aug;17(3):257-75

Acid treatment of lymphocytes selectively decreases the expression of HLA class I antigens: a method to confirm that a positive clinical crossmatch test was due to class I antibodies. Sumitran-Karuppan S, et al. **Transpl Immunol** 1996 Jun;4(2):163-8

GENETICS

Haplotype analysis of hemochromatosis: evaluation of different linkage-disequilibrium approaches and evolution of disease chromosomes. Ajioka RS, et al. **Am J Hum Genet** 1997 Jun;60(6):1439-47

Mutation analysis of the HLA-H gene in Italian hemochromatosis patients. Carella M, et al. **Am J Hum Genet** 1997 Apr;60(4):828-32

Familial hydronephrosis unlinked to the HLA complex. Santavá A, et al. **Am J Med Genet** 1997 May 16; 70(2):118-20

High-speed DNA genotyping using microfabricated capillary array electrophoresis chips. Woolley AT, et al. **Anal Chem** 1997 Jun 1;69(11):2181-6

Cytokine regulation of major histocompatibility complex antigen expression by human oral and skin keratinocytes. Li J, et al. **Arch Oral Biol** 1996 Jun;41(6):533-8

Identification of a mouse homolog for the human hereditary haemochromatosis candidate gene. Hashimoto K, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):35-9

Simple and rapid detection of the newly described mutations in the HLA-H gene [letter] Aguilar Martinez P, et al. **Blood** 1997 Mar 1;89(5):1835-6

Rapid diagnosis of the HLA-H gene Cys 282 Tyr mutation in hemochromatosis by polymerase chain reaction--a very rare mutation in the Chinese population [letter] Chang JG, et al. **Blood** 1997 May 1;89(9):3492-3

HLA-H mutations in the Ashkenazi Jewish population. Beutler E, et al. **Blood Cells Mol Dis** 1997;23(1):95-8

An immunohistochemical study of altered immunomodulatory molecule expression in head and neck squamous cell carcinoma. Vora AR, et al. **Br J Cancer** 1997;76(7):836-44

Natural killer cells in MHC class I deficient mice. Salcedo M, et al. **Chem Immunol** 1996;64:44-58 (51 ref.)

Antibody reactivity profiles following immunization with diverse peptides of the PERB11 (MIC) family. Leelayuwat C, et al. **Clin Exp Immunol** 1996 Dec;106(3):568-76

Conservation of an alpha 2 domain within the teleostean world, MHC class I from the rainbow trout Oncorhynchus mykiss. Hansen JD, et al. **Dev Comp Immunol** 1996 Nov-Dec;20(6):417-25

Distribution of HLA-G alternative mRNAs including soluble forms in normal lymphocytes and in lymphoid cell-derived leukemia. Amiot L, et al. **Eur J Immunogenet** 1996 Aug; 23(4):311-20

Fingerprinting of HLA class I genes for improved selection of unrelated bone marrow donors. Martinelli G, et al. **Eur J Immunogenet** 1996 Feb;23(1):55-65

Evidence for multiple distinct major histocompatibility complex class I lineages in teleostean fish. van Erp SH, et al. **Eur J Immunogenet** 1996 Oct;23(5):371-81

Clone-contig and STS maps of the hereditary hemochromatosis region on human chromosome 6p21.3-p22. Lauer P, et al. **Genome Res** 1997 May; 7(5):457-70

Systematic sequencing of the human HLA-A/HLA-F region: establishment of a cosmid contig and identification of a new gene cluster within 37 kb of sequence. Lepourcelet M, et al. **Genomics** 1996 Nov 1;37(3):316-26

Structural analysis of the HLA-A/HLA-F subregion: precise localization of two new multigene families closely associated with the HLA class I sequences. Pichon L, et al. **Genomics** 1996 Mar 1;32(2):236-44

Hereditary hemochromatosis: generation of a transcription map within a refined and extended map of the HLA class I region. Totaro A, et al. **Genomics** 1996 Feb 1;31(3):319-26

An N-glycosylated tyrosinase epitope associates with newly synthesized MHC class I molecules in melanoma cells. Androlewicz MJ. **Hum Immunol** 1996 Dec;51(2):81-8

Description of a new HLA-E (E*01031) allele and its frequency in the Spanish population. Gomez-Casado E, et al. **Hum Immunol** 1997 Apr 15;54(1):69-73

Population genetic studies of HLA-E: evidence for selection. Grimsley C, et al. **Hum Immunol** 1997 Jan;52(1):33-40

HLA-G gene polymorphism segregation within CEPH reference families. Kirszenbaum M, et al. **Hum Immunol** 1997 Apr 1;53(2):140-7

HLA-G gene transcriptional regulation in trophoblasts and blood cells: differential binding of nuclear factors to a regulatory element located 1.1 kb from exon 1. Moreau P, et al. **Hum Immunol** 1997 Jan;52(1):41-6

Minimal phenotype panels. A method for achieving maximum population coverage with a minimum of HLA antigens. Schipper RF, et al. **Hum Immunol** 1996 Dec; 51(2):95-8

Structure and content of the major histocompatibility complex (MHC) class I regions of the great anthropoid apes. Venditti CP, et al. **Hum Immunol** 1996 Sep 1; 49(2):71-84

Primary alloreactive cytotoxic T-lymphocytes are not commonly restricted by self-HLA class I antigens. Young NT, et al. **Hum Immunol** 1996 Sep 15;50(1):38-46

A viral ER-resident glycoprotein inactivates the MHC-encoded peptide transporter. Hengel H, et al. **Immunity** 1997 May;6(5):623-32

Induction of MHC class I expression by the MHC class II transactivator CIITA. Martin BK, et al. **Immunity** 1997 May;6(5):591-600

A new sequence (Mhc-BJ) showing similarity both to Mhc-B alleles and to the HLA-J pseudogene in Macaca mulatta. Alvarez M, et al. **Immunogenetics** 1996;45(1):80-1

A highly informative dinucleotide repeat polymorphism telomeric to HLA-F. Andrieux N, et al. **Immunogenetics** 1997;46(4):355-6

Genomic structure of the human MHC class I MICB gene. Bahram S, et al. **Immunogenetics** 1996;45(2):161-2

Mapping of mhc class I and class II regions to different linkage groups in the zebrafish, Danio rerio. Bingulac-Popovic J, et al. **Immunogenetics** 1997; 46(2):129-34

Mutations in the MHC class I-like candidate gene for hemochromatosis in French patients. Borot N, et al. **Immunogenetics** 1997;45(5):320-4

Sequence and transcription of Qa-2-encoding genes in mouse lymphocytes and blastocysts. Cai W, et al. **Immunogenetics** 1996;45(2):97-107

Identification of new HLA class I region genes by sample sequencing. Goldsworthy M, et al. **Immunogenetics** 1997; 46(3):206-12

Allelic repertoire of the human MICB gene. Pellet P, et al. **Immunogenetics** 1997;46(5):434-6

A new HLA-G allele (HLA-G*0105N) and its distribution in the Spanish population. Suárez MB, et al. **Immunogenetics** 1997;45(6):464-5

The MHC contains multiple genes potentially relevant to hemochromatosis [editorial] Tay GK, et al. **Immunogenetics** 1997;45(5):336-40

Sequence-based association analysis of HLA class I and II alleles in Japanese supports conservation of common haplotypes. Tokunaga K, et al. **Immunogenetics** 1997; 46(3):199-205

Expression of HLA class I molecules assembled with structural variants of human beta2-microglobulin. Trymbulak WP, et al. **Immunogenetics** 1997;46(5):418-26

Nucleotide sequences of three distinct cDNA clones coding for the rat class I heavy chain RT1n antigen. Wang M, et al. **Immunogenetics** 1996;45(1):73-5

Large-scale comparative mapping of the MHC class I region of predominant haplotypes in Japanese. Watanabe Y, et al. **Immunogenetics** 1997;46(2):135-41

The role of MHC class I heterodimer expression in mouse ankylosing enthesopathy. Weinreich SS, et al. **Immunogenetics** 1997;46(1):35-40

Processing and presentation of endocytically acquired protein antigens by MHC class II and class I molecules. German RN, et al. **Immunol Rev** 1996 Jun;151:5-30 (122 ref.)

The Ly-49 family: genes, proteins and recognition of class I MHC. Takei F, et al. **Immunol Rev** 1997 Feb;155:67-77 (55 ref.)

HLA-G revisited. Carosella ED, et al. **Immunol Today** 1996 Sep;17(9):407-9 (23 ref.)

The discovery of MHC restriction. Zinkernagel RM, et al. **Immunol Today** 1997 Jan;18(1):14-7 (46 ref.)

Association between microsatellites within the human MHC and nasopharyngeal carcinoma. Ooi EE, et al. **Int J Cancer** 1997 Apr 22;74(2):229-32

HLA class I antigen expression in human solid tumors. Klein B, et al. **Isr J Med Sci** 1996 Dec;32(12):1238-43 (23 ref.)

Isolation and characterization of retinoic acid-inducible cDNA clones in F9 cells: a novel cDNA family encodes cell surface proteins sharing partial homology with MHC class I molecules. Zou Z, et al. **J Biochem (Tokyo)** 1996 Feb;119(2):319-28

The hemochromatosis founder mutation in HLA-H disrupts beta2-microglobulin interaction and cell surface expression. Feder JN, et al. **J Biol Chem** 1997 May 30;272(22):14025-8

Synthesis and turnover of beta2-microglobulin in Ad12-transformed cells defective in assembly and transport of class I major histocompatibility complex molecules. Mey-Tal SV, et al. **J Biol Chem** 1997 Jan 3;272(1):353-61

Active repression of major histocompatibility complex class I genes in a human neuroblastoma cell line. Murphy C, et al. **J Biol Chem** 1996 Nov 29;271(48):30992-9

The effects of chimeric cells following donor bone marrow infusions as detected by PCR-flow assays in kidney transplant recipients [published erratum appears in J Clin Invest 1997 May;99(9):2295] Garcia-Morales R, et al. **J Clin Invest** 1997 Mar 1;99(5):1118-29

The pentanucleotide ATTGG, the "inverted CCAAT," is an essential element for HLA class I gene transcription. Schoneich J, et al. **J Immunol** 1997 May 15;158(10):4788-96

Class I-deficient hemopoietic cells and nonhemopoietic cells dominantly induce unresponsiveness of natural killer cells to class I-deficient bone marrow cell grafts. Wu MF, et al. **J Immunol** 1997 Feb 15;158(4):1628-33

Reconstitution of class I MHC molecules expressed in E. coli and complexed with single antigenic peptides. Kim J, et al. **J Korean Med Sci** 1997 Aug;12(4):280-5

Human leukocyte antigen frequencies in a selected group of Lebanese Greek Orthodox. Malak RR, et al. **J Med Liban** 1997;45(2):78-83

HLA class I genotypes in Leber's hereditary optic neuropathy. Chalmers RM, et al. **J Neurol Sci** 1996 Feb; 135(2):173-5

Mutation of a major histocompatibility class I locus, H-2D, leads to an increased virus burden and disease susceptibility in Theiler's virus-induced demyelinating disease. Lipton HL, et al. **J Neurovirol** 1995 Jun;1(2):138-44

H-2 Dd transgene suppresses Theiler's virus-induced demyelination in susceptible strains of mice. Rodriguez M, et al. **J Neurovirol** 1995 Mar;1(1):111-7

Population genetic studies of HLA-G: allele frequencies and linkage disequilibrium with HLA-A1 [published erratum

appears in J Reprod Immunol 1997 Apr;33(1):89–90] Ober C, et al. **J Reprod Immunol** 1996 Dec;32(2):111–23

Identification of a cis-acting element in the class I major histocompatibility complex gene promoter responsive to activation by retroviral sequences. Choi SY, et al. **J Virol** 1997 Feb;71(2):965–70

Human cytomegalovirus US2 destabilizes major histocompatibility complex class I heavy chains. Jones TR, et al. **J Virol** 1997 Apr;71(4):2970–9

Hierarchy of Epstein-Barr virus-specific cytotoxic T-cell responses in individuals carrying different subtypes of an HLA allele: implications for epitope-based antiviral vaccines. Khanna R, et al. **J Virol** 1997 Oct;71(10):7429–35

Biparental alleles of HLA-G are co-dominantly expressed in the placenta. Hashimoto K, et al. **Jpn J Hum Genet** 1997 Mar;42(1):181–6

Genetic irony beyond haemochromatosis: clinical effects of HLA-H mutations [see comments] Beutler E. **Lancet** 1997 Feb 1;349(9048):296–7. Comment in: Lancet 1997 Apr 5;349(9057):1025–6. Comment in: Lancet 1997 May 17;349(9063):1475–6.

Increased frequency of the haemochromatosis Cys282Tyr mutation in sporadic porphyria cutanea tarda [see comments] Roberts AG, et al. **Lancet** 1997 Feb 1; 349(9048):321–3. Comment in: Lancet 1997 Apr 5;349(9057):1025–6.

Haemochromatosis gene mutation in hepatocellular cancer [letter] Willis G, et al. **Lancet** 1997 Aug 23;350(9077):565–6

HLA and graft-versus-host disease: a population-based study of HLA phenotypes of Jewish and Arabic bone marrow transplanted patients in Israel. Bishara A, et al. **Leuk Res** 1997 Feb;21(2):111–8

Hereditary hemochromatosis: a HpaI polymorphism within the HLA-H gene. Totaro A, et al. **Mol Cell Probes** 1997 Jun;11(3):229–30

HLA-H and associated proteins in patients with hemochromatosis. Beutler E, et al. **Mol Med** 1997 Jun; 3(6):397–402

Mutations of the hereditary hemochromatosis candidate gene HLA-H in porphyria cutanea tarda [letter] Santos M, et al. **N Engl J Med** 1997 May 1;336(18):1327–8

Haemochromatosis and HLA-H [letter; comment] Jazwinska EC, et al. **Nat Genet** 1996 Nov;14(3):249–51. Comment on: Nat Genet 1996 Aug;13(4):399–408.

Haemochromatosis and HLA-H [letter; comment] Jouanolle AM, et al. **Nat Genet** 1996 Nov;14(3):251–2. Comment on: Nat Genet 1996 Aug;13(4):399–408.

Putting a hold on 'HLA-H' [letter; comment] Mercier B, et al. **Nat Genet** 1997 Mar;15(3):234. Comment on: Nat Genet 1996 Aug;13(4):399–408.

A novel method for simultaneous high resolution identification of HLA-A, HLA-B, and HLA-Cw alleles. Arguello R, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10961–5

Cell stress-regulated human major histocompatibility complex class I gene expressed in gastrointestinal epithelium. Groh V, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12445–50

Triplet repeat polymorphism in the transmembrane region of the MICA gene: a strong association of six GCT repetitions with Behçet disease. Mizuki N, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1298–303

A complex major histocompatibility complex D locus variant generated by an unusual recombination mechanism in mice. Yun TJ, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18; 94(4):1384–9

Variation and evolution of class I Mhc in sexual and parthenogenetic geckos. Radtkey RR, et al. **Proc R Soc Lond B Biol Sci** 1996 Aug 22;263(1373):1023–32

The effect of eicosanoids on the expression of MHC genes in cultured human colon cancer cells and mouse colonocytes in vivo. Feng Y, et al. **Prostaglandins Leukot Essent Fatty Acids** 1996 Dec; 55(6):373–8

Class Ib MHC products in host immunity against Listeria monocytogenes. Kurlander RJ, et al. **Res Immunol** 1996 Oct-Dec;147(8–9):524–31 (33 ref.)

Events in the adaptation of natural killer cell receptors to MHC class I polymorphisms. Parham P. **Res Immunol** 1997 Mar-Apr;148(3):190–4 (19 ref.)

Multiple products of class Ib Qa-2 genes which ones are functional? Stroynowski I, et al. **Res Immunol** 1996 Jun; 147(5):290–301 (97 ref.)

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 May;47(5):408–13

HLA-G transcription studies during the different stages of normal and malignant hematopoiesis. Amiot L, et al. **Tissue Antigens** 1996 Nov;48(5):609–14

Molecular analysis of six dog leukocyte antigen class I sequences including three complete genes, two truncated genes and one full-length processed gene. Burnett RC, et al. **Tissue Antigens** 1997 May;49(5):484–95

Nucleotide sequences of MHC class I introns 1, 2 and 3 in humans and intron 2 in nonhuman primates. Cereb N, et al. **Tissue Antigens** 1996 Sep;48(3):235–6

Nucleotide sequences of MHC class I introns 1, 2, and 3 in humans and intron 2 in nonhuman primates [published erratum appears in Tissue Antigens 1996 Sep;48(3):235–6] Cereb N, et al. **Tissue Antigens** 1996 Jun;47(6):498–511

MICA gene and ankylosing spondylitis: linkage analysis via a transmembrane-encoded triplet repeat polymorphism. Goto K, et al. **Tissue Antigens** 1997 May;49(5):503–7

CpG methylation patterns in the 5' part of the nonclassical HLA-G gene in peripheral blood CD34+ cells and CD2+ lymphocytes. Onno M, et al. **Tissue Antigens** 1997 Apr; 49(4):356–64

Trinucleotide repeat polymorphism within exon 5 of the MICA gene (MHC class I chain-related gene A): allele frequency data in the nine population groups Japanese, Northern Han, Hui, Uygur, Kazakhstan, Iranian, Saudi Arabian, Greek and Italian. Ota M, et al. **Tissue Antigens** 1997 May;49(5):448–54

Molecular analysis and polymorphism of the DLA-DQA gene. Wagner JL, et al. **Tissue Antigens** 1996 Sep; 48(3):199–204

Correction of the HLA-G*01012 genomic sequence. Yamashita T, et al. **Tissue Antigens** 1997 Jun;49(6):673–4

Comparison between HLA class I PCR-ARMS and serologic typing in cadaveric kidney transplantation. Adorno D, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1423–5

Assessment of homozygosity in HLA-class I antigens and their distribution/quantitation in subpopulations of T cells by flow cytometry. Carreno M, et al. **Transplant Proc** 1997 Feb-Mar;29(1–2):1426–9

Molecular typing of HLA class I and class II antigens in Indian kala-azar patients. Singh N, et al. **Trop Med Int Health** 1997 May;2(5):468–71

Assignment of genes coding for leukocyte surface molecules to river buffalo chromosomes. el Nahas SM, et al. **Vet Immunol Immunopathol** 1996 Aug;52(4):435–43

The use of bovine MHC class I allele-specific peptide motifs and proteolytic cleavage specificities for the prediction of potential cytotoxic T lymphocyte epitopes of bovine viral diarrhea virus. Hegde NR, et al. **Virus Genes** 1997; 14(2):111–21

[Expression and prognostic significance of HLA-class I and II antigens, ICAM-1 and costimulatory molecule B7 in esophageal carcinoma] Stoecklein NH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:785–8 (Eng. Abstr.) **(Ger)**

[Has the hemochromatosis gene been identified? A newly discovered MHC class I gene is mutated in patients with hereditary hemochromatosis] Riedel HD, et al. **Z Gastroenterol** 1997 Feb;35(2):155–7 **(Ger)**

[A study of the association between HLA phenotype and serum concentration of soluble HLA class I] Matsuura H, et al. **Nihon Rinsho Meneki Gakkai Kaishi** 1997 Apr; 20(2):102–7 (Eng. Abstr.) **(Jpn)**

[Features of the distribution of BoLA-A antigens and alleles of the BoLA-DRB3 gene in Black Pied cattle in relation to association with leukemia] Ernst LK, et al. **Genetika** 1997 Jan;33(1):87–95 (Eng. Abstr.) **(Rus)**

IMMUNOLOGY

Role of HLA class I in HIV type 1-induced syncytium formation. de Santis C, et al. **AIDS Res Hum Retroviruses** 1996 Jul 20;12(11):1031–40

Anti-major histocompatibility complex antibody responses to simian B cells do not protect macaques against SIVmac infection. Polyanskaya N, et al. **AIDS Res Hum Retroviruses** 1997 Jul 20;13(11):923–31

Persistence of human leukocyte antigen (HLA) antibodies after one year in children receiving cryopreserved valved allografts. Shaddy RE, et al. **Am J Cardiol** 1997 Aug 1; 80(3):358–9

Vogt-Koyanagi-Harada disease and HLA type in Italian patients. Pivetti-Pezzi P, et al. **Am J Ophthalmol** 1996 Dec; 122(6):889–91

HLA-G finally does something! [editorial; comment] Clark DA. **Am J Reprod Immunol** 1997 Aug;38(2):75–8. Comment on: Am J Reprod Immunol 1997 Aug;38(2):79–82.

Altered expression of human leukocyte antigen G (HLA-G) on extravillous trophoblasts in preeclampsia: immunohistological demonstration with anti-HLA-G specific antibody "87G" and anti-cytokeratin antibody "CAM5.2". Hara N, et al. **Am J Reprod Immunol** 1996 Dec; 36(6):349–58

Presence of HLA-G-expressing cells modulates the ability of peripheral blood mononuclear cells to release cytokines [see comments] Maejima M, et al. **Am J Reprod Immunol** 1997 Aug;38(2):79–82. Comment in: Am J Reprod Immunol 1997 Aug;38(2):75–8.

Antigen processing and presentation by the class I major histocompatibility complex. York IA, et al. **Annu Rev Immunol** 1996;14:369–96 (187 ref.)

HLA class I antigens are expressed by Sertoli cells of intratubular germ cell neoplasia. Braendstrup O. **APMIS** 1996 Jul-Aug;104(7–8):579–82

New functions of the MHC class I-related Fc receptor, FcRn. Simister NE, et al. **Biochem Soc Trans** 1997 May; 25(2):481–6 (70 ref.)

Antibodies to HLA class I alpha1 domain trigger apoptosis of CD40-activated human B lymphocytes. Genestier L, et al. **Blood** 1997 Jul 15;90(2):726–35

Generation of primary tumor-specific cytotoxic T lymphocytes from autologous and human lymphocyte antigen class I-matched allogeneic peripheral blood lymphocytes by B7 gene-modified melanoma cells. Yang S, et al. **Cancer Res** 1997 Apr 15;57(8):1561–8

Anti-HLA class I antibody inhibits Staphylococcus enterotoxin A (SEA)-induced proliferation of human PBMC. Baskar P, et al. **Cell Immunol** 1996 Aug 25; 172(1):135–8

Increased class Ib antigen display on TAP-2 mutant cells by a mitochondrial function inhibitor. Hermel E, et al. **Cell Immunol** 1997 Jul 10;179(1):10–5

Reversal of age-related deficient influenza virus-specific CTL responses and IFN-gamma production by monophosphoryl lipid A. Mbawuike IN, et al. **Cell Immunol** 1996 Oct 10;173(1):64–78

MHC class I is functionally associated with antigen receptors in human T and B lymphomas. Pedersen AE, et al. **Cell Immunol** 1996 Nov 1;173(2):295–302

The 1996 Nobel Prize to Rolf Zinkernagel and Peter Doherty [editorial] Hämmerling GJ. **Cell Tissue Res** 1997 Jan; 287(1):1–2

Expression of HLA class I molecules in human first trimester and term placenta trophoblast [published erratum appears in Cell Tissue Res 1997 Mar;287(3):625] Hutter H, et al. **Cell Tissue Res** 1996 Dec;286(3):439–47

HLA-class I-specific inhibitory receptors of NK type on a subset of human T cells. Mingari MC, et al. **Chem Immunol** 1996;64:135–45 (51 ref.)

Role of the major histocompatibility complex class I regions in rat natural killer cell allograft responses in vivo and in vitro. Rolstad B. **Chem Immunol** 1996;64:59–76 (65 ref.)

MHC class I-dependent and -independent NK cell specificity. Yokoyama WM, et al. **Chem Immunol** 1996; 64:1–18 (88 ref.)

Molecular aberrations in the MHC class I-restricted pathway for antigen presentation in methylcholanthrene sarcomas from nude mice: discrepancies between MHC mRNA and surface protein. Engel AM, et al. **Clin Exp Immunol** 1997 Aug;109(2):323–31

Antibody reactivity profiles following immunization with diverse peptides of the PERB11 (MIC) family. Leelayuwat C, et al. **Clin Exp Immunol** 1996 Dec;106(3):568–76

IL-2 signalling in T and natural killer (NK) cells associated with their class I-non-restricted killing activity. Yoneda K, et al. **Clin Exp Immunol** 1996 Oct;106(1):179–86

Absence of irreversible rejection in the presence of warm anti-donor-HLA class I cytotoxic IgG antibody. Shoker A, et al. **Clin Nephrol** 1997 Feb;47(2):87–91

Major histocompatibility complex (MHC) class I recognition by natural killer cells. Döhring C, et al. **Crit Rev Immunol** 1997;17(3–4):285–99 (129 ref.)

Nonclassical HLA-G molecules are classical peptide presenters. Diehl M, et al. **Curr Biol** 1996 Mar 1;6(3):305–14

Immunology: keeping mother at bay. Parham P. **Curr Biol** 1996 Jun 1;6(6):638–41 (18 ref.)

Natural killer cell receptors specific for MHC class I molecules [published erratum appears in Curr Opin Immunol 1996 Jun;8(3):419] Colonna M. **Curr Opin Immunol** 1996 Feb;8(1):101–7 (60 ref.)

Antigen presentation by CD1 and MHC-encoded class I-like molecules. Melián A, et al. **Curr Opin Immunol** 1996 Feb; 8(1):82–8 (41 ref.)

Interferon-gamma independently activates the MHC class I antigen processing pathway and diminishes glucose responsiveness in pancreatic beta-cell lines. Baldeón ME, et al. **Diabetes** 1997 May;46(5):770–8

Interleukin-15-induced maturation of human natural killer cells from early thymic precursors: selective expression of CD94/NKG2-A as the only HLA class I-specific inhibitory receptor. Mingari MC, et al. **Eur J Immunol** 1997 Jun;27(6):1374–80

Constitutive macropinocytosis allows TAP-dependent major histocompatibility complex class I presentation of exogenous soluble antigen by bone marrow-derived dendritic cells. Norbury CC, et al. **Eur J Immunol** 1997 Jan;27(1):280–8

CD94 functions as a natural killer cell inhibitory receptor for different HLA class I alleles: identification of the inhibitory form of CD94 by the use of novel monoclonal antibodies. Sivori S, et al. **Eur J Immunol** 1996 Oct; 26(10):2487–92

Suppression of MHC class I antigens in oncogenic transformants: association with decreased recognition by cytotoxic T lymphocytes. Seliger B, et al. **Exp Hematol** 1996 Sep;24(11):1275–9

The role of major and minor histocompatibility antigens in orthotopic corneal transplantation in mice. Hašková Z, et al. **Folia Biol (Praha)** 1996;42(3):105–11

Modulation of antigen processing and presentation by persistent virus infections and in tumors. Ehrlich R. **Hum Immunol** 1997 May;54(2):104–16 (126 ref.)

Delivery of antigens to the MHC class I pathway using bacterial toxins. Goletz TJ, et al. **Hum Immunol** 1997 May; 54(2):129–36 (90 ref.)

MHC class I antigen processing pathways. Maffei A, et al. **Hum Immunol** 1997 May;54(2):91–103 (124 ref.)

Soluble HLA class I antigens in pediatric patients with renal transplants from related living donors without acute rejection and treated with triple therapy. Tambutti ML, et al. **Hum Immunol** 1996 Oct;50(2):135–9

CD94 and a novel associated protein (94AP) form a NK cell receptor involved in the recognition of HLA-A, HLA-B, and HLA-C allotypes. Phillips JH, et al. **Immunity** 1996 Aug;5(2):163–72

Peptide binding motifs of the MHC class I molecules (RT1.Al) of the Lewis rat. Reizis B, et al. **Immunogenetics** 1997;45(4):278–9

Memory alloreactive cytotoxic T cells do not require costimulation for activation in vitro. Flynn K, et al. **Immunol Cell Biol** 1996 Oct;74(5):413–20

How did the primordial T cell receptor and MHC molecules function initially? Kurosawa Y, et al. **Immunol Cell Biol** 1997 Apr;75(2):193–6

External glycopeptide binding to MHC class-I in relation to expression of TAP transporters, beta 2-microglobulin and to pH. Abdel-Motal UM, et al. **Immunol Lett** 1996 Dec 1;54(1):31–5

A photobleaching energy transfer analysis of CD8/MHC-I and LFA-1/ICAM-1 interactions in CTL-target cell conjugates. Bacsó Z, et al. **Immunol Lett** 1996 Dec; 54(2–3):151–6

A case of primary immunodeficiency due to a defect of the major histocompatibility gene complex class I processing and presentation pathway. Teisserenc H, et al. **Immunol Lett** 1997 Jun 1;57(1–3):183–7

Function of killer cell inhibitory receptors for MHC class I molecules. Vély F, et al. **Immunol Lett** 1996 Dec; 54(2–3):145–50

A polypeptide encoded within the murine AIDS defective virus stimulates primary proliferation of CD8+ T-cells. Yee ST, et al. **Immunol Lett** 1997 Feb;55(2):93–8

Class I HLA-restricted cytotoxic T lymphocyte responses against malaria--elucidation on the basis of HLA peptide binding motifs. Doolan DL, et al. **Immunol Res** 1996; 15(4):280–305 (180 ref.)

Molecular mechanisms of class I major histocompatibility complex antigen processing and presentation. Yang Y, et al. **Immunol Res** 1996;15(3):208–33 (204 ref.)

The role of peptide specificity in MHC class I-restricted allogeneic responses. Frelinger JA, et al. **Immunol Rev** 1996 Dec;154:45–58 (48 ref.)

Processing and presentation of endocytically acquired protein antigens by MHC class II and class I molecules. German RN, et al. **Immunol Rev** 1996 Jun;151:5–30 (122 ref.)

Regulation of antigen processing and presentation to class I MHC restricted CD8+ T lymphocytes. Hahn YS, et al. **Immunol Rev** 1996 Jun;151:31–49 (35 ref.)

Alloreactivity, antigen recognition and T-cell selection: three diverse T-cell recognition problems with a common solution. Joyce S, et al. **Immunol Rev** 1996 Dec;154:59–103 (251 ref.)

Flavivirus-induced up-regulation of MHC class I antigens; implications for the induction of CD8+ T-cell-mediated autoimmunity. Lobigs M, et al. **Immunol Rev** 1996 Aug; 152:5–19 (67 ref.)

Positive and negative MHC class I recognition by rat NK cells. Rolstad B, et al. **Immunol Rev** 1997 Feb;155:91–104 (72 ref.)

The Ly-49 family: genes, proteins and recognition of class I MHC. Takei F, et al. **Immunol Rev** 1997 Feb;155:67–77 (55 ref.)

Lowering the tone: mechanisms of immunodominance among epitopes with low affinity for MHC [see comments] Fairchild PJ, et al. **Immunol Today** 1996 Feb;17(2):80–85 (51 ref.). Comment in: Immunol Today 1997 Feb;18(2):97–8.

Inhibitory MHC class I receptors on NK cells and T cells [see comments] Lanier LL, et al. **Immunol Today** 1996 Feb; 17(2):86–91 (52 ref.). Comment in: Immunol Today 1997 Mar;18(3):146.

Inhibitory MHC class I receptors on NK and T cells: a standard nomenclature [letter] Long EO, et al. **Immunol Today** 1996 Feb;17(2):100

The response of gamma delta T cells to Plasmodium falciparum is dependent on activated CD4+ T cells and the recognition of MHC class I molecules. Jones SM, et al. **Immunology** 1996 Nov;89(3):405–12

Importance of beta2-microglobulin in murine resistance to mucosal and systemic candidiasis. Balish E, et al. **Infect Immun** 1996 Dec;64(12):5092–7

Analogues of CTL epitopes with improved MHC class-I binding capacity elicit anti-melanoma CTL recognizing the wild-type epitope. Bakker AB, et al. **Int J Cancer** 1997 Jan 27;70(3):302–9

Defective presentation of MHC class I-restricted cytotoxic T-cell epitopes in Burkitt's lymphoma cells. Frisan T, et al. **Int J Cancer** 1996 Oct 9;68(2):251–8

HLA class-I-restricted and tumor-specific CTL in tumor-infiltrating lymphocytes of patients with gastric cancer. Hoshino T, et al. **Int J Cancer** 1997 Mar 17; 70(6):631–8

Molecular basis for lack of expression of HLA class I antigens in human small-cell lung carcinoma cell lines. Singal DP, et al. **Int J Cancer** 1996 Nov 27;68(5):629–36

Altered MHC class I antigens in tumors. Algarra I, et al. **Int J Clin Lab Res** 1997;27(2):95–102 (63 ref.)

Inhibitory receptors for HLA class I molecules on cytolytic T lymphocytes. Functional relevance and implications for anti-tumor immune responses. Mingari MC, et al. **Int J Clin Lab Res** 1997;27(2):87–94 (57 ref.)

Virus-like particles induce MHC class I-restricted T-cell responses. Lessons learned from the hepatitis B small surface antigen. Schirmbeck R, et al. **Intervirology** 1996; 39(1–2):111–9

Production of a specific major histocompatibility complex class I-restricted epitope by ubiquitin-dependent degradation of modified ovalbumin in lymphocyte lysate. Ben-Shahar S, et al. **J Biol Chem** 1997 Aug 22; 272(34):21060–6

Human histocompatibility leukocyte antigen-binding supermotifs predict broadly cross-reactive cytotoxic T lymphocyte responses in patients with acute hepatitis. Bertoni R, et al. **J Clin Invest** 1997 Aug 1;100(3):503–13

The recognition of the nonclassical major histocompatibility complex (MHC) class I molecule, T10, by the gammadelta T cell, G8. Crowley MP, et al. **J Exp Med** 1997 Apr 7; 185(7):1223–30

Transgenic expression of the Ly49A natural killer cell receptor confers class I major histocompatibility complex (MHC)-specific inhibition and prevents bone marrow allograft rejection. Held W, et al. **J Exp Med** 1996 Nov 1;184(5):2037–41

Constitutive class I-restricted exogenous presentation of self antigens in vivo. Kurts C, et al. **J Exp Med** 1996 Sep 1; 184(3):923–30

Glu227-->Lys substitution in the acidic loop of major histocompatibility complex class I alpha 3 domain distinguishes low avidity CD8 coreceptor and avidity-enhanced CD8 accessory functions. Shen L, et al. **J Exp Med** 1996 Nov 1;184(5):1671–83

Leukosialin (CD43)-major histocompatibility class I molecule interactions involved in spontaneous T cell conjugate formation. Stöckl J, et al. **J Exp Med** 1996 Nov 1;184(5):1769–79

A single T cell receptor recognizes structurally distinct MHC/peptide complexes with high specificity. Tallquist MD, et al. **J Exp Med** 1996 Sep 1;184(3):1017–26

Role of the thymus in transplantation tolerance in miniature swine. I. Requirement of the thymus for rapid and stable induction of tolerance to class I-mismatched renal allografts. Yamada K, et al. **J Exp Med** 1997 Aug 18; 186(4):497–506

The ectodomain of measles virus envelope glycoprotein does not gain access to the cytosol and MHC class I presentation pathway following virus-cell fusion. Cardoso AI, et al. **J Gen Virol** 1996 Nov;77 (Pt 11):2695–9

Class I-restricted CTL induction by mucosal immunization with naked DNA encoding measles virus haemagglutinin. Etchart N, et al. **J Gen Virol** 1997 Jul;78 (Pt 7):1577–80

MHC class I-associated peptides produced from endogenous gene products with vastly different efficiencies. Anton LC, et al. **J Immunol** 1997 Mar 15;158(6):2535–42

The effect of the proteasome inhibitor lactacystin on the presentation of transporter associated with antigen processing (TAP)-dependent and TAP-independent peptide epitopes by class I molecules. Bai A, et al. **J Immunol** 1997 Sep 1;159(5):2139–46

MHC class Ib-restricted cells contribute to antilisterial immunity: evidence for Qa-1b as a key restricting element for Listeria-specific CTLs. Bouwer HG, et al. **J Immunol** 1997 Sep 15;159(6):2795–801

Antigen processing and presentation by human trophoblast-derived cell lines. Gobin SJ, et al. **J Immunol** 1997 Apr 15;158(8):3587–92

Class I processing-defective Burkitt's lymphoma cells are recognized efficiently by CD4+ EBV-specific CTLs. Khanna R, et al. **J Immunol** 1997 Apr 15;158(8):3619–25

Direct MHC class I complementary DNA transfer to thymus induces donor-specific unresponsiveness, which involves multiple immunologic mechanisms. Knechtle SJ, et al. **J Immunol** 1997 Jul 1;159(1):152–8

Alloreactive CD8+ T cells can recognize unusual, rare, and unique processed peptide/MHC complexes. Malarkannan S, et al. **J Immunol** 1996 Nov 15;157(10):4464–73

Human killer cell activatory receptors for MHC class I molecules are included in a multimeric complex expressed by natural killer cells. Olcese L, et al. **J Immunol** 1997 Jun 1;158(11):5083–6

Selective inhibition of human and mouse natural killer tumor recognition using retroviral antisense in primary natural killer cells: involvement with MHC class I killer cell inhibitory receptors. Ortaldo JR, et al. **J Immunol** 1997 Feb 1;158(3):1262–7

The CD94/NKG2-A inhibitory receptor complex is involved in natural killer cell-mediated recognition of cells expressing HLA-G1. Pérez-Villar JJ, et al. **J Immunol** 1997 Jun 15;158(12):5736–43

Introduction of exogenous antigens into the MHC class I processing and presentation pathway by Drosophila antennapedia homeodomain primes cytotoxic T cells in vivo. Schutze-Redelmeier MP, et al. **J Immunol** 1996 Jul 15;157(2):650–5

Are transporter associated with antigen processing (TAP) and tapasin class I MHC chaperones? Solheim JC, et al. **J Immunol** 1997 Jan 15;158(2):541–3

Bone marrow-derived dendritic cells can process bacteria for MHC-I and MHC-II presentation to T cells. Svensson M, et al. **J Immunol** 1997 May 1;158(9):4229–36

Nonclassical behavior of the mouse CD1 class I-like molecule. Teitell M, et al. **J Immunol** 1997 Mar 1; 158(5):2143–9

Self-MHC-restricted peptides recognized by an alloreactive T lymphocyte clone. Udaka K, et al. **J Immunol** 1996 Jul 15;157(2):670–8

The generation of MHC class I-associated peptides is only partially inhibited by proteasome inhibitors: involvement of nonproteasomal cytosolic proteases in antigen processing? Vinitsky A, et al. **J Immunol** 1997 Jul 15; 159(2):554–64

Anti-human class I MHC antibodies induce apoptosis by a pathway that is distinct from the Fas antigen-mediated pathway. Woodle ES, et al. **J Immunol** 1997 Mar 1; 158(5):2156–64

Defective ribosomal products (DRiPs): a major source of antigenic peptides for MHC class I molecules? Yewdell JW, et al. **J Immunol** 1996 Sep 1;157(5):1823–6 (21 ref.)

Cytotoxic T lymphocyte (CTL) adherence assay (CAA): a non-radioactive assay for murine CTL recognition of peptide-MHC class I complexes. Leggatt GR, et al. **J Immunol Methods** 1997 Feb 14;201(1):1–10

HLA class I antigens in Japanese patients with melanoma. Kageshita T, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):428–32

Interferon-gamma and interleukin-10 have cross-regulatory roles in modulating the class I and class II MHC-mediated presentation of epitopes of Listeria monocytogenes by infected macrophages. Hiltbold EM, et al. **J Interferon Cytokine Res** 1996 Jul;16(7):547–54

Mouse myeloma cell line secreting bifunctional fusion protein RM4/IFN-gamma [corrected] elicits antitumor CD8 MHC class I-restricted T cells that are cytolytic in vitro and tumoricidal in vivo [published erratum appears in J Interferon Cytokine Res 1997 Feb;17(2):120] Qi Y, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):771–6

The immune response to class I-associated tumor-specific cutaneous T-cell lymphoma antigens. Berger CL, et al. **J Invest Dermatol** 1996 Sep;107(3):392–7

Gammadelta T cell activation or anergy during infections: the role of nonpeptidic TCR ligands and HLA class I molecules. Poccia F, et al. **J Leukoc Biol** 1997 Sep; 62(3):287–91

Inhibition of MHC class I antigen presentation by viral proteins. Früh K, et al. **J Mol Med** 1997 Jan;75(1):18–27 (110 ref.)

A genetically modified allogeneic cellular vaccine generates MHC class I-restricted cytotoxic responses against tumor-associated antigens and protects against CNS tumors in vivo. Ashley DM, et al. **J Neuroimmunol** 1997 Sep; 78(1–2):34–46

MHC class I-mediated cytotoxicity does not induce apoptosis in muscle fibers nor in inflammatory T cells: studies in patients with polymyositis, dermatomyositis, and inclusion body myositis. Schneider C, et al. **J Neuropathol Exp Neurol** 1996 Dec;55(12):1205–9

Inhibition of human immunodeficiency virus type 1 production in infected peripheral blood mononuclear cells by human leukocyte antigen class I-specific antibodies: evidence for a novel antiviral mechanism. Briant L, et al. **J Virol** 1996 Aug;70(8):5213–20

Lack of effect of mouse adenovirus type 1 infection on cell surface expression of major histocompatibility complex class I antigens. Kring SC, et al. **J Virol** 1996 Aug; 70(8):5495–502

Novel and frequent mutations of hepatitis B virus coincide with a major histocompatibility complex class I-restricted T-cell epitope of the surface antigen. Tai PC, et al. **J Virol** 1997 Jun;71(6):4852–6

Definition of human immunodeficiency virus type 1 gp120 and gp41 cytotoxic T-lymphocyte epitopes and their restricting major histocompatibility complex class I alleles in simian-human immunodeficiency virus-infected rhesus monkeys. Voss G, et al. **J Virol** 1996 Oct;70(10):7335–40

Suppression of human immunodeficiency virus type 1 replication by CD8+ cells: evidence for HLA class I-restricted triggering of cytolytic and noncytolytic mechanisms. Yang OO, et al. **J Virol** 1997 Apr;71(4):3120–8

Identification of an HLA-DQ6-derived peptide recognized by mouse MHC class I H-2Db-restricted CD8+ T cells in HLA-DQ6 transgenic mice. Takeshita T, et al. **Jpn J Hum Genet** 1997 Mar;42(1):225–32

HLA and graft-versus-host disease: a population-based study of HLA phenotypes of Jewish and Arabic bone marrow transplanted patients in Israel. Bishara A, et al. **Leuk Res** 1997 Feb;21(2):111–8

Stimulation of tumor-specific immunity using tumor cell plasma membrane antigen. Mescher MF, et al. **Methods** 1997 Jun;12(2):155–64

Tat-mediated protein delivery can facilitate MHC class I presentation of antigens. Moy P, et al. **Mol Biotechnol** 1996 Oct;6(2):105–13

HLA-derived peptides in clinical trial for kidney allografts [news] Featherstone C. **Mol Med Today** 1996 Nov;2(11):447

MHC-binding peptide prediction on the Web [news] Featherstone C. **Mol Med Today** 1996 Dec;2(12):491

Reversal of fortune for nascent proteins [news; comment] Bonifacino JS. **Nature** 1996 Dec 5;384(6608):405–6. Comment on: Nature 1996 Dec 5;384(6608):432–8.

Inhibition of natural killer cells by a cytomegalovirus MHC class I homologue in vivo [see comments] Farrell HE, et al. **Nature** 1997 Apr 3;386(6624):510–4. Comment in: Nature 1997 Apr 3;386(6624):446–7.

Viral decoy vetoes killer cell [news; comment] Kärre K, et al. **Nature** 1997 Apr 3;386(6624):446–7. Comment on: Nature 1997 Apr 3;386(6624):510–4. Comment on: Nature 1997 Apr 3;386(6624):514–7.

Pictures of MHC restriction [news; comment] Parham P. **Nature** 1996 Nov 14;384(6605):109–10. Comment on: Nature 1996 Nov 14;384(6605):134–41. Comment on: Nature 1996 Nov 14;384(6605):188–92.

The class I MHC homologue of human cytomegalovirus inhibits attack by natural killer cells [see comments] Reyburn HT, et al. **Nature** 1997 Apr 3;386(6624):514–7. Comment in: Nature 1997 Apr 3;386(6624):446–7.

Transfected Drosophila cells as a probe for defining the minimal requirements for stimulating unprimed CD8+ T

cells. Cai Z, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14736–41

Expression of HLA class I–specific inhibitory natural killer cell receptors in HIV–specific cytolytic T lymphocytes: impairment of specific cytolytic functions. De Maria A, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16;94(19):10285–8

The human cytomegalovirus US6 glycoprotein inhibits transporter associated with antigen processing–dependent peptide translocation. Lehner PJ, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6904–9

Major histocompatibility class I presentation of soluble antigen facilitated by Mycobacterium tuberculosis infection. Mazzaccaro RJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11786–91

The alpha1 domain of HLA–G1 and HLA–G2 inhibits cytotoxicity induced by natural killer cells: is HLA–G the public ligand for natural killer cell inhibitory receptors? [see comments] Rouas–Freiss N, et al. **Proc Natl Acad Sci U S A** 1997 May 13;94(10):5249–54. Comment in: Proc Natl Acad Sci U S A 1997 Jun 10;94(11):5998–6000.

Peptide–specific cytotoxic T lymphocytes restricted by nonself major histocompatibility complex class I molecules: reagents for tumor immunotherapy. Sadovnikova E, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13114–8

Shared fine specificity between T–cell receptors and an antibody recognizing a peptide/major histocompatibility class I complex. Stryhn A, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10338–42

Inhibitory and activatory receptors for MHC class I molecules. Cambiaggi A, et al. **Res Immunol** 1997 Mar–Apr;148(3):172–9 (53 ref.)

Introduction: novel specific immunity functioning alongside classical specific immunity. Gachelin G, et al. **Res Immunol** 1996 Jun;147(5):275–8 (6 ref.)

Class Ib MHC products in host immunity against Listeria monocytogenes. Kurlander RJ, et al. **Res Immunol** 1996 Oct–Dec;147(8–9):524–31 (33 ref.)

The role of natural killer cells in allograft responses to MHC antigens in the rat. Rolstad B, et al. **Res Immunol** 1997 Mar–Apr;148(3):159–64 (42 ref.)

Evidence foe antigen presentation by the class Ib molecule, Qa–1. Stevens C, et al. **Res Immunol** 1996 Jun;147(5):286–90 (32 ref.)

MHC class I phenotype and function of human beta 2–microglobulin transgenic murine lymphocytes. Bjerager L, et al. **Scand J Immunol** 1996 Dec;44(6):615–22

Interaction of 2C T cells with a hybrid Ld molecule bearing an alpha 3 domain derived from the class IB molecule, Qa–2. Ungchusri T, et al. **Scand J Immunol** 1997 Jul; 46(1):41–50

Enhancement of class II–restricted T cell responses by costimulatory NK receptors for class I MHC proteins. Mandelboim O, et al. **Science** 1996 Dec 20; 274(5295):2097–100

Antigen processing and presentation [see comments] Brodsky FM, et al. **Tissue Antigens** 1996 Jun;47(6):464–71 (68 ref.) . Comment in: Tissue Antigens 1996 Jun;47(6):457–9.

Expression of MHC class I and class II antigens in pancreatic adenocarcinomas [published erratum appears in Tissue Antigens 1997 Apr;49(4):429] Scupoli MT, et al. **Tissue Antigens** 1996 Oct;48(4 Pt 1):301–11

Peptides bound endogenously by HLA–Cw*0304 expressed in LCL 721.221 cells include a peptide derived from HLA–E. Tzeng CM, et al. **Tissue Antigens** 1996 Oct;48(4 Pt 1):325–8

Facilitation of DLA–incompatible marrow grafts by donor–specific serum transferrin? Deeg HJ, et al. **Transpl Immunol** 1996 Jun;4(2):113–6

Acid treatment of lymphocytes selectively decreases the expression of HLA class I antigens: a method to confirm that a positive clinical crossmatch test was due to class I antibodies. Sumitran–Karuppan S, et al. **Transpl Immunol** 1996 Jun;4(2):163–8

Hyperacute renal allograft rejection from anti–HLA class 1 antibody to B cells––antibody detection by two color FCXM was possible only after using pronase–digested donor lymphocytes. Lobo PI, et al. **Transpl Int** 1997; 10(1):69–73

Indirect T–cell allorecognition and the mechanisms of immunosuppression by allogeneic blood transfusions. Sawyer GJ, et al. **Transpl Int** 1997;10(4):276–83

Induction of transplant tolerance by intrathymic inoculation of synthetic MHC class I allopeptides. Chowdhury NC, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1136

Human killer inhibitory receptors: specificity for HLA–class I molecules and mechanisms of signal transduction. Colonna M, et al. **Transplant Proc** 1996 Dec;28(6):3035

Role of natural killer cells and classical (RT1.A) vs nonclassical (RT1.C) class I molecules in acute bone marrow allograft rejection in lethally irradiated rats. Engh E, et al. **Transplant Proc** 1996 Dec;28(6):3265–6

Anti–HLA antibodies detected in posttransplant renal allograft recipient sera correlate with chronic rejection. Kerman RH, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1515–6

Changes of antigenicity and loss of immunogenicity in long–standing class I MHC disparate pancreas allografts. Klempnauer J, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1151

Immunomodulation by HLA class I–derived peptides. Krensky AM, et al. **Transplant Proc** 1996 Dec;28(6):3026–8 (14 ref.)

Pretransplant and posttransplant monitoring of anti–HLA class I IgG1 antibodies by ELISA identifies patients at high risk of graft loss. Monteiro F, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1433–4

Sensitization to HLA antigens in islet recipients with failing transplants. Olack BJ, et al. **Transplant Proc** 1997 Jun; 29(4):2268–9

Influence of indirect T–cell allorecognition on the immunosuppressive effects of multiple blood transfusions. Sawyer GJ, et al. **Transplant Proc** 1997 Feb–Mar; 29(1–2):1010–1

The role of donor class I major histocompatibility complex peptides in the induction of allograft tolerance. Shirwan H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1134–5

Inhibitory CD94 molecules identified by the Z199 monoclonal antibody recognize different HLA–class I molecules. Sivori S, et al. **Transplant Proc** 1996 Dec; 28(6):3199–203

Allotrap prolongs survival of porcine islet xenografts in diabetic mice. Squiers EC, et al. **Transplant Proc** 1997 Jun; 29(4):2168–9

Regulation of interferon–gamma during the mixed lymphocyte reaction. Toungouz M, et al. **Transplant Proc** 1996 Oct;28(5):2911–2

Allogeneic class I MHC requirement for alloantigen–reactive helper T–lymphocyte responses in vivo. Evidence for indirect presentation of alloantigen. Clement JD, et al. **Transplantation** 1996 Aug 15;62(3):388–96

Detection of HLA class I– and class II–specific antibodies by flow cytometry and PRA–STAT screening in renal transplant recipients. Harmer AW, et al. **Transplantation** 1997 Jun 27;63(12):1828–32

Reduction of alloantibody response to class I major histocompatibility complex by targeting synthetic allopeptides for presentation by B cells. MacDonald CM, et al. **Transplantation** 1997 Apr 15;63(7):926–32

Identification of patients at high risk of graft loss by pre– and posttransplant monitoring of anti–HLA class I IgG antibodies by enzyme–linked immunosorbent assay. Monteiro F, et al. **Transplantation** 1997 Feb 27;63(4):542–6

Epitope specificity of HLA class I alloantibodies: II. Stability of cross–reactive group antibody patterns over extended time periods. Rodey GE, et al. **Transplantation** 1997 Mar 27;63(6):885–93

CD4+ T cells are able to reject class I disparate allografts. Sawada T, et al. **Transplantation** 1997 Jul 27;64(2):335–40

Recognition of porcine major histocompatibility complex class I antigens by human CD8+ cytolytic T cell clones. Shishido S, et al. **Transplantation** 1997 Jul 27;64(2):340–6

Alloantigen–blocking antibodies in sera from highly sensitized uremic patients: antibody class and relationship with lymphocytotoxins. Shoker AS, et al. **Transplantation** 1997 Sep 27;64(6):853–60

Antibody screening by enzyme–linked immunosorbent assay using pooled soluble HLA in renal transplant candidates. Zaer F, et al. **Transplantation** 1997 Jan 15;63(1):48–51

Subversion of the MHC class I antigen–presentation pathway by adenoviruses and herpes simplex viruses. Burgert HG. **Trends Microbiol** 1996 Mar;4(3):107–12 (61 ref.)

How viruses hide from T cells. McMichael A. **Trends Microbiol** 1997 Jun;5(6):211–2; discussion 212–3 (20 ref.)

The efficiency of antigen delivery from macrophage phagosomes into cytoplasm for MHC class I–restricted antigen presentation. Oh YK, et al. **Vaccine** 1997 Apr; 15(5):511–8

The organization of human leucocyte antigen class I epitopes in HIV genome products: implications for HIV evolution and vaccine design. Zhang C, et al. **Vaccine** 1997 Aug–Sep; 15(12–13):1291–302

Identification of potential CTL epitopes of bovine RSV using allele–specific peptide motifs from bovine MHC class I molecules. Gaddum RM, et al. **Vet Immunol Immunopathol** 1996 Nov;54(1–4):211–9 (50 ref.)

Phylogenetically conserved epitopes of leukocyte antigens. Vilmos P, et al. **Vet Immunol Immunopathol** 1996 Aug; 52(4):415–26

Varicella zoster virus–specific cytotoxicity following secondary immunization with live or killed vaccine. Hayward AR, et al. **Viral Immunol** 1996;9(4):241–5

NK recognition of cytomegalovirus–infected endothelial cells depends on viral replication and MHC class I expression. Weinberg A, et al. **Viral Immunol** 1996;9(2):131–40

Computer simulations of proteolysis of Marburg and Ebola–Zaire filovirus coded proteins to generate nonapeptides with motifs of known HLA class I haplotypes and detection of antigenic domains in the viral glycoproteins. Becker Y. **Virus Genes** 1996;13(3):189–201

Prediction of potential cytotoxic T lymphocyte epitopes of bovine herpesvirus 1 based on allele–specific peptide motifs and proteolytic cleavage specificities. Hegde NR, et al. **Virus Genes** 1996;13(2):121–33

Susceptibility to natural killer cells and down regulation of MHC class I expression in adenovirus 12 transformed cells are regulated by different E1A domains. Huvent I, et al. **Virus Res** 1996 Dec;45(2):123–34

[Fetomaternal tolerance: role of HLA–G molecule in the protection of the fetus against maternal natural killer activity] Rouas–Freiss N, et al. **C R Acad Sci III** 1997 May; 320(5):385–92 (Eng. Abstr.) **(Fre)**

[Donor–specific tolerance induction by allopeptide immunization: an animal experiment study exemplified by allogenic heart transplantation in the rat model] Fändrich F, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997; 114:719–24 (Eng. Abstr.) **(Ger)**

ISOLATION & PURIFICATION

Strategy for isolating and sequencing biologically derived MHC class I peptides. Tomlinson AJ, et al. **J Chromatogr A** 1996 Sep 13;744(1–2):273–8

METABOLISM

Mechanism of class I assembly with beta 2 microglobulin and loading with peptide. Hansen TH, et al. **Adv Immunol** 1997;64:105–37 (170 ref.)

H2–M3, a full–service class Ib histocompatibility antigen. Lindahl KF, et al. **Annu Rev Immunol** 1997;15:851–79 (90 ref.)

Receptors for HLA class–I molecules in human natural killer cells. Moretta A, et al. **Annu Rev Immunol** 1996;14:619–48 (127 ref.)

New immunosuppressive proteins (KX–2, –4, and –5) induced by liver transplantation. Kamada N. **Artif Organs** 1996 Oct; 20(10):1112–5

Expression of major histocompatibility complex antigen and timing of invasion by equine chorionic girdle cells cultured on Matrigel. Vagnoni KE, et al. **Biol Reprod** 1996 Jan; 54(1):219–23

Peptide binding by class I and class II MHC molecules. Batalia MA, et al. **Biopolymers** 1997;43(4):281–302 (74 ref.)

Presentation of exogenous protein antigens on major histocompatibility complex class I molecules by dendritic cells: pathway of presentation and regulation by cytokines. Brossart P, et al. **Blood** 1997 Aug 15;90(4):1594–9

Assessment of intracellular TAP–1 and TAP–2 in conjunction with surface MHC class I in plasma cells from patients with multiple myeloma. Crucian BE, et al. **Br J Haematol** 1997 Aug;98(2):426–32

Downregulation of major histocompatibility complex class I expression and susceptibility to natural killer cells in cells transformed with the oncogenic adenovirus 12 are regulated by different E1A domains. Huvent I, et al. **Cancer Detect Prev** 1997;21(1):12–21

Class I major histocompatibility complex antigens and tumor ploidy in breast and bronchogenic carcinomas. Redondo M, et al. **Cancer Detect Prev** 1997;21(1):22–8

Integration of high–risk human papillomavirus DNA is linked to the down–regulation of class I human leukocyte antigens by steroid hormones in cervical tumor cells. Bartholomew JS, et al. **Cancer Res** 1997 Mar 1;57(5):937–42

Nonionic triblock copolymers facilitate delivery of exogenous proteins into the MHC class I and class II processing pathways. Ke Y, et al. **Cell Immunol** 1997 Mar 15;176(2):113–21

Inhibitory and activatory receptors for HLA class I molecules in human natural killer cells. Moretta A, et al. **Chem Immunol** 1996;64:77–87 (50 ref.)

Assembly and intracellular transport of MHC class I and class II molecules. Jackson MR, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:249–61 (118 ref.)

Assembly, peptide loading, and transport of MHC class I molecules in a calnexin–negative cell line. Sadasivan BK, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:267–75

Antigen recognition. Cresswell P, et al. **Curr Opin Immunol** 1997 Feb;9(1):71–4 (26 ref.)

Natural killer cell receptors and MHC class I interactions. Lanier LL. **Curr Opin Immunol** 1997 Feb;9(1):126–31 (63 ref.)

Processing and delivery of peptides presented by MHC class I molecules. Lehner PJ, et al. **Curr Opin Immunol** 1996 Feb;8(1):59–67 (84 ref.)

Tissue–specific self–peptides bound by major histocompatibility complex class I molecules of a human pancreatic beta–cell line. Papadopoulos KP, et al. **Diabetes** 1996 Dec;45(12):1761–5

Adenovirus type 5 fiber knob binds to MHC class I alpha2 domain at the surface of human epithelial and B lymphoblastoid cells. Hong SS, et al. **EMBO J** 1997 May 1;16(9):2294–306

A mouse cytomegalovirus glycoprotein, gp34, forms a complex with folded class I MHC molecules in the ER which is not retained but is transported to the cell surface. Kleijnen MF, et al. **EMBO J** 1997 Feb 17;16(4):685–94

The human major histocompatibility complex class Ib molecule HLA–E binds signal sequence–derived peptides with primary anchor residues at positions 2 and 9. Braud V, et al. **Eur J Immunol** 1997 May;27(5):1164–9

Peptides derived from the whole sequence of BCR–ABL bind to several class I molecules allowing specific induction of human cytotoxic T lymphocytes. Buzyn A, et al. **Eur J Immunol** 1997 Aug;27(8):2066–72

The CD94 and NKG2–A C–type lectins covalently assemble to form a natural killer cell inhibitory receptor for HLA class I molecules. Carretero M, et al. **Eur J Immunol** 1997 Feb;27(2):563–7

TAP–dependent major histocompatibility complex class I presentation of soluble proteins using listeriolysin. Darji A, et al. **Eur J Immunol** 1997 Jun;27(6):1353–9

HLA–G recognition by human natural killer cells. Involvement of CD94 both as inhibitory and as activating

receptor complex. Pende D, et al. **Eur J Immunol** 1997 Aug;27(8):1875–80

Interferon–gamma rescues HLA class Ia cell surface expression in term villous trophoblast cells by inducing synthesis of TAP proteins. Rodriguez AM, et al. **Eur J Immunol** 1997 Jan;27(1):45–54

Major histocompatibility complex class I presentation of ovalbumin peptide 257–264 from exogenous sources: protein context influences the degree of TAP–independent presentation. Wick MJ, et al. **Eur J Immunol** 1996 Nov; 26(11):2790–9

Altered gene expression associated with apoptosis in a pre–B–leukemic cell line following cross–linking of MHC class I. Nilsson N, et al. **Exp Cell Res** 1997 Feb 25; 231(1):190–7

Glycosylation of native MHC class Ia molecules is required for recognition by allogeneic cytotoxic T lymphocytes. Bagriaçik EU, et al. **Glycobiology** 1996 Jun;6(4):413–21

An N–glycosylated tyrosinase epitope associates with newly synthesized MHC class I molecules in melanoma cells. Androlewicz MJ. **Hum Immunol** 1996 Dec;51(2):81–8

Anti–HLA antibody ligation to HLA class I molecules expressed by endothelial cells stimulates tyrosine phosphorylation, inositol phosphate generation, and proliferation. Bian H, et al. **Hum Immunol** 1997 Mar; 53(1):90–7

Localization of class I histocompatibility molecule assembly by subfractionation of the early secretory pathway. Bresnahan PA, et al. **Hum Immunol** 1997 Apr 1; 53(2):129–39

Soluble HLA class I in epithelial lining fluid of lung transplants: associations with graft outcome. DeVito–Haynes LD, et al. **Hum Immunol** 1997 Feb; 52(2):95–108

MHC class I antigen processing pathways. Maffei A, et al. **Hum Immunol** 1997 May;54(2):91–103 (124 ref.)

Killer cell inhibitory receptor interactions with HLA class I molecules: implications for alloreactivity and transplantation. Young NT, et al. **Hum Immunol** 1997 Jan; 52(1):1–11 (109 ref.)

A novel immunoglobulin superfamily receptor for cellular and viral MHC class I molecules. Cosman D, et al. **Immunity** 1997 Aug;7(2):273–82

Roles for calreticulin and a novel glycoprotein, tapasin, in the interaction of MHC class I molecules with TAP. Sadasivan B, et al. **Immunity** 1996 Aug;5(2):103–14

Antigen presentation by MHC class I and II molecules. Neefjes JJ. **Immunobiology** 1996 Oct;195(4–5):456–60 (28 ref.)

Probing the stability of class I major histocompatibility complex (MHC) molecules on the surface of human cells. Edidin M, et al. **Immunogenetics** 1997;46(1):41–5

Hypothesis: MHC class I, rather than just a flagpole for CD8+ T cells is also a protease in its own right. Müllbacher A. **Immunol Cell Biol** 1997 Jun;75(3):310–7 (61 ref.)

Mechanism of interaction of pH 3.0 treated tumor cells expressing lower levels of class I MHC antigens, with IL–2 activated NK cells. Haridas V, et al. **Immunol Lett** 1997 Mar;55(3):167–71

Markedly decreased expression of TAP1 and LMP2 genes in HLA class I–deficient human tumor cell lines. Singal DP, et al. **Immunol Lett** 1996 May;50(3):149–54

The CD94/NKG2 C–type lectin receptor complex: involvement in NK cell–mediated recognition of HLA class I molecules. López–Botet M, et al. **Immunol Res** 1997; 16(2):175–85 (50 ref.)

Peptide selection for presentation by HLA class I: a role for the human transporter associated with antigen processing? van Endert PM. **Immunol Res** 1996; 15(4):265–79 (34 ref.)

Molecular mechanisms of class I major histocompatibility complex antigen processing and presentation. Yang Y, et al. **Immunol Res** 1996;15(3):208–33 (204 ref.)

Structure and function of the CD94 C–type lectin receptor complex involved in recognition of HLA class I molecules. López–Botet M, et al. **Immunol Rev** 1997 Feb;155:165–74 (74 ref.)

Specificity, tolerance and developmental regulation of natural killer cells defined by expression of class I–specific Ly49 receptors. Raulet DH, et al. **Immunol Rev** 1997 Feb; 155:41–52 (46 ref.)

Positive and negative MHC class I recognition by rat NK cells. Rolstad B, et al. **Immunol Rev** 1997 Feb;155:91–104 (72 ref.)

How does TAP associate with MHC class I molecules? Elliott T. **Immunol Today** 1997 Aug;18(8):375–9 (18 ref.)

NK–cell receptors and recognition of MHC class I molecules. López–Botet M, et al. **Immunol Today** 1996 May; 17(5):212–4 (4 ref.)

Do epitopes derived from autoantigens display low affinity for MHC class I? [letter; comment] van der Burg SH, et al. **Immunol Today** 1997 Feb;18(2):97–8. Comment on: Immunol Today 1996 Feb;17(2):80–85.

Regulation of HLA class I and II expression by interferons and influenza A virus in human peripheral blood mononuclear cells. Keskinen P, et al. **Immunology** 1997 Jul; 91(3):421–9

HLA–class I–specific inhibitory receptors in human cytolytic T lymphocytes: molecular characterization, distribution in lymphoid tissues and co–expression by individual T cells. Mingari MC, et al. **Int Immunol** 1997 Apr;9(4):485–91

Ligation of MHC class I induces apoptosis in human pre–B cell lines, in promyelocytic cell lines and in CD40–stimulated mature B cells. Wallén–Ohman M, et al. **Int Immunol** 1997 Apr;9(4):599–606

Lupus nephritis in the absence of renal major histocompatibility complex class I and class II molecules. Mukherjee R, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2445–52

Reconstituted killer cell inhibitory receptors for major histocompatibility complex class I molecules control mast cell activation induced via immunoreceptor tyrosine–based activation motifs. Bléry M, et al. **J Biol Chem** 1997 Apr 4;272(14):8989–96

Lactacystin and clasto–lactacystin beta–lactone modify multiple proteasome beta–subunits and inhibit intracellular protein degradation and major histocompatibility complex class I antigen presentation. Craiu A, et al. **J Biol Chem** 1997 May 16;272(20):13437–45

The Listeria monocytogenes–secreted p60 protein is an N–end rule substrate in the cytosol of infected cells. Implications for major histocompatibility complex class I antigen processing of bacterial proteins. Sijts AJ, et al. **J Biol Chem** 1997 Aug 1;272(31):19261–8

Binding of H–2Kb–specific peptides to TAP and major histocompatibility complex class I in microsomes from wild–type, TAP1, and beta2–microglobulin mutant mice. Wang P, et al. **J Biol Chem** 1996 Oct 4;271(40):24830–5

Effect of interferon–gamma and glucose on major histocompatibility complex class I and class II expression by pancreatic beta– and non–beta–cells. Pavlovic D, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2329–36

Selection and adaptation of cells expressing major histocompatibility complex class I–specific receptors of the natural killer complex. Bendelac A. **J Exp Med** 1997 Aug 4;186(3):349–51

Exogenous antigens gain access to the major histocompatibility complex class I processing pathway in B cells by receptor–mediated uptake. Ke Y, et al. **J Exp Med** 1996 Sep 1;184(3):1179–84

Potential immunocompetence of proteolytic fragments produced by proteasomes before evolution of the vertebrate immune system. Niedermann G, et al. **J Exp Med** 1997 Jul 21;186(2):209–20

Defective iron homeostasis in beta 2–microglobulin knockout mice recapitulates hereditary hemochromatosis in man. Santos M, et al. **J Exp Med** 1996 Nov 1;184(5):1975–85

Human cytomegalovirus inhibits peptide translocation into the endoplasmic reticulum for MHC class I assembly. Hengel H, et al. **J Gen Virol** 1996 Sep;77 (Pt 9):2287–96

Dominance of a single peptide bound to the class I(B) molecule, Qa–1b. DeCloux A, et al. **J Immunol** 1997 Mar 1;158(5):2183–91

Generation of naturally processed peptide/MHC class I complexes is independent of the stability of endogenously synthesized precursors. Goth S, et al. **J Immunol** 1996 Sep 1;157(5):1894–904

Peptide binding to the class Ib molecule, Qa–1b. Kurepa Z, et al. **J Immunol** 1997 Apr 1;158(7):3244–51

The tetraspanin protein CD82 associates with both free HLA class I heavy chain and heterodimeric beta 2–microglobulin complexes. Lagaudrière–Gesbert C, et al. **J Immunol** 1997 Mar 15;158(6):2790–7

Human natural killer cell receptors involved in MHC class I recognition are disulfide–linked heterodimers of CD94 and NKG2 subunits. Lazetic S, et al. **J Immunol** 1996 Dec 1;157(11):4741–5

Chemical denaturation and modification of ovalbumin alters its dependence on ubiquitin conjugation for class I antigen presentation. Michalek MT, et al. **J Immunol** 1996 Jul 15; 157(2):617–24

Herpes simplex virus blocks intracellular transport of HLA–G in placentally derived human cells. Schust DJ, et al. **J Immunol** 1996 Oct 15;157(8):3375–80

Cloned dendritic cells can present exogenous antigens on both MHC class I and class II molecules. Shen Z, et al. **J Immunol** 1997 Mar 15;158(6):2723–30

MHC class I ligation of human T cells activates the ZAP70 and p56lck tyrosine kinases, leads to an alternative phenotype of the TCR/CD3 zeta–chain, and induces apoptosis. Skov S, et al. **J Immunol** 1997 Apr 1; 158(7):3189–96

Alloreactive T cell recognition of MHC class I molecules: the T cell receptor interacts with limited regions of the MHC class I long alpha helices. Smith KD, et al. **J Immunol** 1997 Mar 15;158(6):2805–12

CD94/NKG2 is the predominant inhibitory receptor involved in recognition of HLA–G by decidual and peripheral blood NK cells. Söderström K, et al. **J Immunol** 1997 Aug 1;159(3):1072–5

Prominence of beta 2–microglobulin, class I heavy chain conformation, and tapasin in the interactions of class I heavy chain with calreticulin and the transporter associated with antigen processing. Solheim JC, et al. **J Immunol** 1997 Mar 1;158(5):2236–41

Invariant chain association with MHC class I: preference for HLA class I/beta 2–microglobulin heterodimers, specificity, and influence of the MHC peptide–binding groove. Vigna JL, et al. **J Immunol** 1996 Nov 15; 157(10):4503–10

A sensitive fluorometric assay for quantitatively measuring specific peptide binding to HLA class I and class II molecules. Ottenhoff TH, et al. **J Immunol Methods** 1997 Jan 15;200(1–2):89–97

Induction of functional empty class I major histocompatibility complex glycoproteins by photoactivated 8–methoxypsoralen. Imaeda S, et al. **J Invest Dermatol** 1996 Dec;107(6):887–90

Topology of T cell receptor–peptide/class I MHC interaction defined by charge reversal complementation and functional analysis. Chang HC, et al. **J Mol Biol** 1997 Aug 15; 271(2):278–93

Traffic control of completely assembled MHC class I molecules beyond the endoplasmic reticulum. Joyce S. **J Mol Biol** 1997 Mar 14;266(5):993–1001

Expression of major histocompatibility complex class I antigens in the demyelinating twitcher CNS and PNS. Taniike M, et al. **J Neurosci Res** 1997 Mar 1;47(5):539–46

Protective effects of interferon–gamma in intraocular herpes simplex type 1 infection do not depend on major histocompatibility complex class I or class II expression. Geiger KD, et al. **J Neurovirol** 1995 Dec;1(5–6):405–9

An immunocytochemical study of MHC class I expression on human Langerhans cells and melanocytes. Moseley RP, et al. **J Pathol** 1997 Apr;181(4):419–25

The effect of growth factor on antigen and viability of corneal endothelial cells. Tchah H. **Korean J Ophthalmol** 1997 Jun;11(1):32–8

Cytokine modulation of antigen expression in human melanoma cell lines derived from primary and metastatic tumour tissues. Andalib AR, et al. **Melanoma Res** 1997 Feb; 7(1):32–42

Major histocompatibility complex class I molecules mediate association of SV40 with caveolae. Stang E, et al. **Mol Biol Cell** 1997 Jan;8(1):47–57

Beta 2–microglobulin and calnexin can independently promote folding and disulfide bond formation in class I histocompatibility proteins. Tector M, et al. **Mol Immunol** 1997 Apr;34(5):401–8

Human cytomegalovirus inhibits antigen presentation by a sequential multistep process. Ahn K, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):10990–5

Direct delivery of exogenous MHC class I molecule–binding oligopeptides to the endoplasmic reticulum of viable cells. Day PM, et al. **Proc Natl Acad Sci U S A** 1997 Jul 22; 94(15):8064–9

Misfolded major histocompatibility complex class I heavy chains are translocated into the cytoplasm and degraded by the proteasome. Hughes EA, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1896–901

Human CD8+ T lymphocyte subsets that express HLA class I–specific inhibitory receptors represent oligoclonally or monoclonally expanded cell populations. Mingari MC, et al. **Proc Natl Acad Sci U S A** 1996 Oct 29;93(22):12433–8

Recognition principle of the TAP transporter disclosed by combinatorial peptide libraries. Uebel S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):8976–81

Inhibitory and activatory receptors for MHC class I molecules. Cambiaggi A, et al. **Res Immunol** 1997 Mar–Apr;148(3):172–9 (53 ref.)

HLA class–I–specific NK receptors belong to two distinct molecular families and display inhibitory or activating function. Cantoni C, et al. **Res Immunol** 1997 Mar–Apr; 148(3):146–50 (28 ref.)

Immunoglobulin superfamily inhibitory receptors: from natural killer cells to antigen–presenting cells. Colonna M. **Res Immunol** 1997 Mar–Apr;148(3):169–71 (33 ref.)

The CD94/NKG2C–type lectin receptor complex in recognition of HLA class I molecules. López–Botet M, et al. **Res Immunol** 1997 Mar–Apr;148(3):155–9 (30 ref.)

HLA class–I–specific inhibitory receptor in human T lymphocytes: interference with T–cell functions. Mingari MC, et al. **Res Immunol** 1997 Mar–Apr;148(3):150–5 (32 ref.)

Analysis of Nef–induced MHC–I endocytosis. Le Gall S, et al. **Res Virol** 1997 Jan–Feb;148(1):43–7 (40 ref.)

A critical role for tapasin in the assembly and function of multimeric MHC class I–TAP complexes. Ortmann B, et al. **Science** 1997 Aug 29;277(5330):1306–9

Functions for MHC class I carbohydrates inside and outside the cell. Parham P. **Trends Biochem Sci** 1996 Nov; 21(11):427–33 (54 ref.)

Emptying Pandora's box: cytosolic export and MHC degradation. Koszinowski UH. **Trends Microbiol** 1996 Sep; 4(9):338–9

Altered expression of class I major histocompatibility antigens on bovine cells infected with the protozoan parasite Theileria annulata. Oliver RA, et al. **Vet Immunol Immunopathol** 1996 Mar;50(1–2):173–79

Computer simulations to identify in polyproteins of FMDV OK1 and A12 strains putative nonapeptides with amino acid motifs for binding to BoLA class I A11 and A20 haplotype molecules. Becker Y. **Virus Genes** 1997; 14(2):123–9

[Immunosuppressive substances induced by liver grafting] Kobayashi E. **Tanpakushitsu Kakusan Koso** 1997 Jul; 42(9):1420–6 (40 ref.) **(Jpn)**

PHARMACOLOGY

T cell sensitivity to HLA class I–mediated apoptosis is dependent on interleukin–2 and interleukin–4. Genestier L, et al. **Eur J Immunol** 1997 Feb;27(2):495–9

Synthetic peptides derived from human MHC class I sequences delay allograft rejection in rodents and inhibit cell–mediated cytotoxicity in vivo and in vitro. Cuturi MC,

et al. **Immunol Rev** 1996 Dec;154:5–20 (56 ref.)
Both L- and D-isomers of allotrap 2702 prolong cardiac allograft survival in mice. Gao L, et al. **J Heart Lung Transplant** 1996 Jan;15(1 Pt 1):78–87

PHYSIOLOGY

Functional resemblance between the Ig-related NK cell receptors specific for HLA class I molecules and the CD94 C-type lectin. López-Botet M, et al. **Chem Immunol** 1996; 64:116–34 (60 ref.)
Immunomodulatory function of major histocompatibility complex-derived peptides. Murphy B, et al. **Curr Opin Nephrol Hypertens** 1996 May;5(3):262–8 (58 ref.)
T cell receptor and CD8-dependent tyrosine phosphorylation events in cytotoxic T lymphocytes: activation of p56lck by CD8 binding to class I protein. Anel A, et al. **Eur J Immunol** 1996 Oct;26(10):2310–9
Major histocompatibility complex class I-dependent skewing of the natural killer cell Ly49 receptor repertoire [published erratum appears in Eur J Immunol 1996 Dec;26(12):3242] Held W, et al. **Eur J Immunol** 1996 Oct;26(10):2286–92
Negative regulation of rat natural killer cell activity by major histocompatibility complex class I recognition. Kraus E, et al. **Eur J Immunol** 1996 Nov;26(11):2582–6
MHC class I-restricted CTL responses to exogenous antigens. Jondal M, et al. **Immunity** 1996 Oct;5(4):295–302 (140 ref.)
The role of MHC class I expression in rat NK cell-mediated lysis of syngeneic tumor cells and virus-infected cells. Giezeman-Smits KM, et al. **Immunobiology** 1996 Aug; 195(3):286–99
The role of MHC class I heterodimer expression in mouse ankylosing enthesopathy. Weinreich SS, et al. **Immunogenetics** 1997;46(1):35–40
Mechanisms of interference with the MHC class I-restricted pathway of antigen presentation by herpesviruses. Hill AB. **Immunol Cell Biol** 1996 Dec;74(6):523–6 (27 ref.)
Killer cell receptors: keeping pace with MHC class I evolution. Valiante NM, et al. **Immunol Rev** 1997 Feb; 155:155–64 (51 ref.)
A new foreign policy: MHC class I molecules monitor the outside world. Rock KL. **Immunol Today** 1996 Mar; 17(3):131–7 (56 ref.)
Does AIDS emerge from a disequilibrium between two complementary groups of molecules that mimic MHC? Susal C, et al. **Immunol Today** 1996 Mar;17(3):114–9 (46 ref.)
Generation of rat MHC class-I-restricted ovalbumin-specific IgE inhibitory CD8+ T cell clones. MacAry PA, et al. **Int Arch Allergy Immunol** 1997 May-Jul;113(1-3):279–80
HLA-G functions as a restriction element and a transplantation antigen in mice. Horuzsko A, et al. **Int Immunol** 1997 May;9(5):645–53
Introduction of a glycosylation site into a secreted protein provides evidence for an alternative antigen processing pathway: transport of precursors of major histocompatibility complex class I-restricted peptides from the endoplasmic reticulum to the cytosol. Bacik I, et al. **J Exp Med** 1997 Aug 18;186(4):479–87
Class I-restricted cross-presentation of exogenous self-antigens leads to deletion of autoreactive CD8(+) T cells. Kurts C, et al. **J Exp Med** 1997 Jul 21;186(2):239–45
Human histocompatibility leukocyte antigen (HLA)-G molecules inhibit NKAT3 expressing natural killer cells. Münz C, et al. **J Exp Med** 1997 Feb 3;185(3):385–91
Antigenic cancer cells grow progressively in immune hosts without evidence for T cell exhaustion or systemic anergy. Wick M, et al. **J Exp Med** 1997 Jul 21;186(2):229–38
Introduction of soluble proteins into the MHC class I pathway by conjugation to an HIV tat peptide. Kim DT, et al. **J Immunol** 1997 Aug 15;159(4):1666–8
Presentation via the class I pathway by Leishmania amazonensis-infected macrophages of an endogenous leishmanial antigen to CD8+ T cells. Kima PE, et al. **J Immunol** 1997 Aug 15;159(4):1828–34
Early production of IL-4 and induction of Th2 responses in the lymph node originate from an MHC class I-independent CD4+NK1.1- T cell population. von der Weid T, et al. **J Immunol** 1996 Nov 15;157(10):4421–7
Protection from natural killer cell-mediated lysis by HLA-G expression on target cells. Pazmany L, et al. **Science** 1996 Nov 1;274(5288):792–5
Induction of nuclear factor kappa B/Rel nuclear activity in human peripheral blood T lymphocytes by anti-HLA class I monoclonal antibodies. Turco MC, et al. **Tissue Antigens** 1997 Jul;50(1):1–7
Class I MHC mediates programmed cell death in a Fas-independent manner. Woodle ES, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1101
Secreted donor-MHC class I antigen prolongs liver allograft survival and inhibits recipient anti-donor cytotoxic T lymphocyte responses. Geissler EK, et al. **Transplantation** 1997 Sep 15;64(5):782–6
CD8+ effector cells responding to residual class I antigens, with help from CD4+ cells stimulated indirectly, cause rejection of "major histocompatibility complex-deficient" skin grafts. Lee RS, et al. **Transplantation** 1997 Apr 27; 63(8):1123–33
Major histocompatibility complex class I-independent killing of xenogeneic targets by rat allospecific natural killer cells. Torgersen KM, et al. **Transplantation** 1997 Jan 15; 63(1):119–23
Class I MHC mediates programmed cell death in human lymphoid cells. Woodle ES, et al. **Transplantation** 1997 Jul 15;64(1):140–6
Human immunodeficiency virus type I Nef independently affects virion incorporation of major histocompatibility complex class I molecules and virus infectivity. Le Gall S, et al. **Virology** 1997 Mar 3;229(1):295–301

THERAPEUTIC USE

Treatment of malignancy by direct gene transfer of a foreign MHC class I molecule. DeBruyne L. **Cancer Immunol Immunother** 1996 Nov;43(3):180–9 (107 ref.)
Induction of donor-specific tolerance by chimeric class I MHC molecules bearing donor alpha 1 helical amino acids. Wang M, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1224–5

ULTRASTRUCTURE

Structure of HLA molecules and immunosuppressive effects of HLA derived peptides. Krensky AM, et al. **Int Rev Immunol** 1996;13(3):173–85 (56 ref.)

HISTOCOMPATIBILITY ANTIGENS CLASS II

Analysis of T-cell hybridomas with an unusual MHC class II-dependent ligand specificity. Mendiratta SK, et al. **Immunology** 1996 Oct;89(2):238–44
Trypanosoma cruzi infection in MHC-deficient mice: further evidence for the role of both class I- and class II-restricted T cells in immune resistance and disease. Tarleton RL, et al. **Int Immunol** 1996 Jan;8(1):13–22
Acceleration of thrombosis and hemolysis by fibrinolysis inhibiting factor and suppression by Ia antigen expressed on T cells in partially hepatectomized Lewis rats. Nakatsuji T. **Int J Hematol** 1996 Oct;64(3-4):181–8
[Tumor specific antigens a reality (letter; comment)] Claësson MH. **Ugeskr Laeger** 1997 Aug 18;159(34):5110–1. Comment on: Ugeskr Laeger 1997 May 19;159(21):3134–9. **(Dan)**
[Immune intervention by peptides having a MHC class II binding motif--application of MHC blockers to autoimmune disease models] Nihira S. **Nippon Rinsho** 1997 Jun;55(6):1525–30 (21 ref.) (Eng. Abstr.) **(Jpn)**
[Binding-peptide motifs of HLA class II molecules susceptible to autoimmune diseases] Nishimura Y. **Nippon Rinsho** 1997 Jun;55(6):1384–96 (25 ref.) (Eng. Abstr.) **(Jpn)**
[Molecular mechanisms of allergy] Totsuka M, et al. **Tanpakushitsu Kakusan Koso** 1997 May;42(7 Suppl):1055–62 (33 ref.) **(Jpn)**
[Overview of the latest findings on nonclassical MHC antigens and activation pathways of T-lymphocy.es] Buc M. **Bratisl Lek Listy** 1997 Feb;98(2):111–7 **(Slo)**

ADMINISTRATION & DOSAGE

Liposome-mediated peptide loading of MHC-DR molecules in vivo. ‘t Hart BA, et al. **FEBS Lett** 1997 Jun 2;409(1):91–5

ANALYSIS

Expression of microglial markers in the human CNS after closed head injury. Engel S, et al. **Acta Neurochir Suppl (Wien)** 1996;66:89–95
MHC class II+ keratinocytes from IFN gamma-treated human skin activate T cells in the presence of staphylococcal superantigen despite UVB irradiation. Skov L, et al. **Arch Dermatol Res** 1996 May;288(5-6):255–7
Neuronal expression of class II major histocompatibility complex (HLA-DR) in 2 cases of Pick disease. Hollister RD, et al. **Arch Neurol** 1997 Mar;54(3):243–8
Immunocytochemical study of retinal diode laser photocoagulation in the rat. Richardson PR, et al. **Br J Ophthalmol** 1996 Dec;80(12):1092–8
Macrophages and MHC class II positive cells in the choroid during endotoxin induced uveitis. Yang P, et al. **Br J Ophthalmol** 1997 May;81(5):396–401
LN-2 (CD74). A marker to distinguish atypical fibroxanthoma from malignant fibrous histiocytoma. Lazova R, et al. **Cancer** 1997 Jun 1;79(11):2115–24
MHC class II antigen-associated invariant chain on renal cell cancer may contribute to the anti-tumor immune response of the host [corrected and republished in Cancer Lett 1997 May 1;115(1):121–7] Saito T, et al. **Cancer Lett** 1996 Dec 3;109(1-2):15–21
A bursal stromal derived cytokine induces proliferation of MHC class II bearing cells. Obranovich TD, et al. **Dev Comp Immunol** 1996 Jan-Feb;20(1):61–75
Investigation of specimen mislabelling in paraffin-embedded tissue using a rapid, allele-specific, PCR-based HLA class II typing method. Bateman AC, et al. **Histopathology** 1996 Feb;28(2):169–74
The appearance of unusual phenotypic cells (CD4+ Mac-1+ class II+) in the liver of (NZW x BXSB)F1 mice is possibly an animal model for autoimmune hepatitis. Amoh Y, et al. **Immunobiology** 1997 Jun;197(1):31–43
Costimulatory signalling potential of murine MHC class II-positive T-clone cells. Frosch S, et al. **Immunology** 1996 Nov;89(3):384–90
Distribution of endosomal, lysosomal, and major histocompatability complex markers in a monocytic cell line infected with Chlamydia psittaci. Ojcius DM, et al. **Infect Immun** 1997 Jun;65(6):2437–42
HLA-DM and MHC class II molecules co-distribute with peptidase-containing lysosomal subcompartments. Fernandez-Borja M, et al. **Int Immunol** 1996 May; 8(5):625–40
Expression of major histocompatibility complex molecules in rodent retina. Immunohistochemical study. Zhang J, et al. **Invest Ophthalmol Vis Sci** 1997 Aug;38(9):1848–57
MHC class II expression--a new tool to assess dignity in adrenocortical tumours. Marx C, et al. **J Clin Endocrinol Metab** 1996 Dec;81(12):4488–91
Reactivation of herpes simplex virus type 1 in the mouse trigeminal ganglion: an in vivo study of virus antigen and immune cell infiltration [published erratum appears in J Gen Virol 1996 Dec;77(Pt 12):3165] Shimeld C, et al. **J Gen Virol** 1996 Oct;77 (Pt 10):2583–90
Temporal correlation between UV radiation locally-inducible tolerance and the sequential appearance of dermal, then epidermal, class II MHC+CD11b+ monocytic/macrophagic cells. Hammerberg C, et al. **J Invest Dermatol** 1996 Nov;107(5):755–63
MHC class I+/II- dendritic cells induce hapten-specific immune responses in vitro and in vivo. Kolesaric A, et al. **J Invest Dermatol** 1997 Oct;109(4):580–5
T-cell proliferation to superantigen-releasing Staphylococcus aureus by MHC class II-bearing keratinocytes under protection from bacterial cytolysin. Tokura Y, et al. **J Invest Dermatol** 1997 Apr;108(4):488–94
The distribution and abundance of MHC and ICAM-1 on Schwann cells in vitro. Lilje O, et al. **J Neuroimmunol** 1997 Jul;77(1):75–84
Enriched immune-environment of blood-brain barrier deficient areas of normal adult rats. Pedersen EB, et al. **J Neuroimmunol** 1997 Jun;76(1-2):117–31
Celiac disease in Down's syndrome with HLA serological and molecular studies. Failla P, et al. **J Pediatr Gastroenterol Nutr** 1996 Oct;23(3):303–6
MHC studies of the primary antiphospholipid antibody syndrome and of antiphospholipid antibodies in systemic lupus erythematosus. Goldstein R, et al. **J Rheumatol** 1996 Jul;23(7):1173–9
HLA class I and II antigens are partially co-clustered in the plasma membrane of human lymphoblastoid cells. Jenei A, et al. **Proc Natl Acad Sci U S A** 1997 Jul 8; 94(14):7269–74
Adhesion molecules and activation markers in acute rejection of human renal allografts. von Willebrand E, et al. **Transpl Immunol** 1996 Mar;4(1):57–8
Extent of chimerism determines the mode of tolerance in mixed bone marrow chimeras. Taniguchi H, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1193–5
Immunohistochemical studies of macrophages and MHC class II-positive cells in the iris and ciliary body of Lewis rats. Yang P, et al. **Yen Ko Hsueh Pao** 1996 Mar;12(1):15–9

BIOSYNTHESIS

Up-regulation of major histocompatibility complex class II antigen expression in the central nervous system of dogs with spontaneous canine distemper virus encephalitis. Alldinger S, et al. **Acta Neuropathol (Berl)** 1996 Sep; 92(3):273–80
Tissue factor initiates glomerular fibrin deposition and promotes major histocompatibility complex class II expression in crescentic glomerulonephritis [see comments] Erlich JH, et al. **Am J Pathol** 1997 Mar;150(3):873–80. Comment in: Am J Pathol 1997 Mar;150(3):787–92.
Endothelial activation potentiates neointimal lesion formation in the rabbit aorta after balloon injury. Tanaka H, et al. **Ann N Y Acad Sci** 1997 Apr 15;811:448–58
Fetal exposure to interferon-gamma leads to induction of antigen-presenting molecules and leukocyte recruitment. Lee MS, et al. **Autoimmunity** 1997;25(3):147–55
Functionality of inducible major histocompatibility class II expression by specialised non-lymphoid cells. Maile R, et al. **Biochem Soc Trans** 1997 May;25(2):318S
A Phase I clinical trial of immunotherapy with interferon-gamma gene-modified autologous melanoma cells: monitoring the humoral immune response. Abdel-Wahab Z, et al. **Cancer** 1997 Aug 1;80(3):401–12
Regulation of HLA-DR and invariant chain expression by human peripheral blood mononuclear cells with lead, interferon-gamma, or interleukin-4. Guo TL, et al. **Cell Immunol** 1996 Jul 10;171(1):1–9
Inhibition of transplant coronary arteriosclerosis in rabbits by chronic estradiol treatment is associated with abolition of MHC class II antigen expression. Lou H, et al. **Circulation** 1996 Dec 15;94(12):3355–61
A molecular basis for the association of HLA class II molecules with rheumatoid arthritis [editorial] Sinigaglia F, et al. **Clin Exp Rheumatol** 1995 Nov-Dec;13(6):683–5
The MHC class II-associated invariant chain: a molecule with multiple roles in MHC class II biosynthesis and antigen presentation to CD4+ T cells. Bertolino P, et al. **Crit Rev Immunol** 1996;16(4):359–79 (189 ref.)
Effect of interferon-alpha on MHC expression and influx of inflammatory cells on the rat eye. van Klink E, et al. **Doc Ophthalmol** 1996-97;92(1):17–28
Differential expression of CLIP:MHC class II and conventional endogenous peptide:MHC class II complexes by thymic epithelial cells and peripheral antigen-presenting cells. Farr A, et al. **Eur J Immunol** 1996 Dec;26(12):3185–93

Expression of class II, but not class I, major histocompatibility complex molecules is required for granuloma formation in infection with Schistosoma mansoni. Hernandez HJ, et al. **Eur J Immunol** 1997 May; 27(5):1170–6

Flow cytometric analysis of major histocompatibility complex (MHC) class II antigen expression on brain cells from Borna disease virus–infected rats without an intervening in vitro culture step. Rubin SA, et al. **Exp Neurol** 1997 Jul;146(1):286–90

Induction of TCR gene rearrangements in uncommitted stem cells by a subset of IL-7 producing, MHC class–II–expressing thymic stromal cells. Oosterwegel MA, et al. **Immunity** 1997 Mar;6(3):351–60

Class II MHC expression on rat intestinal intraepithelial lymphocytes. Kearsey JA, et al. **Immunol Lett** 1997 Feb; 55(2):63–8

Granulocyte–macrophage colony–stimulating factor elevates invariant chain expression in immature myelomonocytic cell lines. Klagge I, et al. **Immunology** 1997 May; 91(1):114–20

Synthesis, stability, and subcellular distribution of major histocompatibility complex class II molecules in Langerhans cells infected with Leishmania major. Flohé S, et al. **Infect Immun** 1997 Aug;65(8):3444–50

Differing regulation of major histocompatibility class II and adhesion molecules on human umbilical vein endothelial cells by serotonin. Li F, et al. **Int Arch Allergy Immunol** 1997 Feb;112(2):145–51

Immature B cells from neonatal mice show a selective inability to up–regulate MHC class II expression in response to antigen receptor ligation. Tasker L, et al. **Int Immunol** 1997 Apr;9(4):475–84

Impaired antigen presentation by murine I–Ad class II MHC molecules expressed in normal and HLA–DM–defective human B cell lines. Weenink S, et al. **Int Immunol** 1997 Jun;9(6):889–96

Hyperthermia decreases cytokine–mediated adhesion molecule expression on human umbilical vein endothelial cells. Brand K, et al. **Int J Hyperthermia** 1996 Jul–Aug; 12(4):527–38

Expression of major histocompatibility complex class II molecules by dermal inflammatory cells, epidermal Langerhans cells and keratinocytes in canine dermatological disease. Day MJ. **J Comp Pathol** 1996 Nov; 115(4):317–26

Neural cells from dogs with spontaneous distemper encephalitis express class II major histocompatibility complex molecules. Vilafranca M, et al. **J Comp Pathol** 1996 Jan;114(1):43–50

HLA class II expression in well differentiated thyroid carcinoma: correlation with clinicopathological features. Knoll MR, et al. **J Exp Clin Cancer Res** 1997 Jun; 16(2):177–82

Early endosomes and a late endocytic compartment generate different peptide–class II MHC complexes via distinct processing mechanisms. Griffin JP, et al. **J Immunol** 1997 Feb 15;158(4):1523–32

Induction of germinal center B cell markers in vitro by activated CD4+ T lymphocytes: the role of CD40 ligand, soluble factors, and B cell antigen receptor cross–linking. Lahvis GP, et al. **J Immunol** 1997 Aug 15;159(4):1783–93

Introduction of exogenous class II trans–activator in MHC class II–deficient ABI fibroblasts results in incomplete rescue of MHC class II antigen expression. Peijnenburg A, et al. **J Immunol** 1997 Sep 15;159(6):2720–7

Viral peptide specific induction of MHC class II expression by murine T cell clones. Thomas DB, et al. **J Immunol** 1996 Sep 15;157(6):2386–94

Structural requirements for agonist activity of a murine interferon–gamma peptide. Szente BE, et al. **J Interferon Cytokine Res** 1996 Oct;16(10):813–7

Reversible impairment in monocyte major histocompatibility complex class II expression in malnourished surgical patients. Welsh FK, et al. **JPEN J Parenter Enteral Nutr** 1996 Sep–Oct;20(5):344–8

Regulation of MHC class I expression by inflammatory cytokines in rat mesangial cells. Ikeda M, et al. **Nephron** 1997;76(1):90–5

Expression of MHC class II CD4+ and ED1 molecules in association with selective hippocampal neuronal degeneration after long–term adrenalectomy. Islam A, et al. **Neuroreport** 1997 Mar 3;8(4):987–90

In the absence of the invariant chain, HLA–DR molecules display a distinct array of peptides which is influenced by the presence or absence of HLA–DM. Lightstone L, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5772–7

T cells are unresponsive to transgenic MHC class II molecules expressed on pancreatic beta cells. Pilström B, et al. **Scand J Immunol** 1997 Apr;45(4):361–5

Binding domain regulation of MHC class II molecule assembly, trafficking, fate, and function. Germain RN. **Semin Immunol** 1995 Dec;7(6):361–72 (85 ref.)

Expression of MHC Class II and B7–1 and B7–2 costimulatory molecules accompanies tumor rejection and reduces the metastatic potential of tumor cells. Ostrand–Rosenberg S, et al. **Tissue Antigens** 1996 May; 47(5):414–21

Differential expression of the major histocompatibility antigens and ICAM–1 on bile duct epithelial cells in biliary atresia. Dillon PW, et al. **Tohoku J Exp Med** 1997 Jan; 181(1):33–40

Novel responses by transgenic pig endothelial cells to stimulation by human cytokines in terms of H–DAF, E–selectin and major histocompatibility complex class II expression. Carrington CA, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):887

An in vitro model for studying the role of graft endothelial cells in rat heart allograft rejection: a study of the regulation and function of heart endothelial histocompatibility antigens and cell adhesion molecules. Derhaag JG, et al. **Transplant Proc** 1997 May;29(3):1717–8

MHC expression in organ transplants: lessons from the knock–out mice. Halloran PF, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1041–4

Major histocompatibility complex class II antigen expression is suppressed by estradiol in cardiac allografts. Lou H, et al. **Transplant Proc** 1997 Sep;29(6):2626–7

Expression of dendritic cell markers on bone marrow cells in a fraction enriched for the ability to prolong skin allograft survival in ALS–treated murine recipients. Masli S, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1147–8

Ultraviolet B irradiation reduces the surface expression of conformationally correct class I and II histocompatibility antigens. Tambur AR, et al. **Transplant Proc** 1997 Sep; 29(6):2689–91

15–deoxyspergualin downregulates MHC class II antigen expression and cell migration in models of graft–versus–host and host–versus–graft disease. Waaga AM, et al. **Transplant Proc** 1996 Oct;28(5):2515–7

Mechanism of tolerance following class II gene transduction of autologous swine bone marrow. Yasumoto A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1132

Human cytomegalovirus does not induce human leukocyte antigen class II expression on arterial endothelial cells. Knight DA, et al. **Transplantation** 1997 May 15; 63(9):1366–9

Discordant expression of major histocompatibility complex class II antigens and invariant chain in interstitial dendritic cells. Implications for self–tolerance and immunity. Saleem M, et al. **Transplantation** 1997 Apr 27;63(8):1134–8

Recombinant bovine interferon gamma inhibits the growth of Cowdria ruminantium but fails to induce major histocompatibility complex class II following infection of endothelial cells. Totté P, et al. **Vet Immunol Immunopathol** 1996 Sep;53(1–2):61–71

BLOOD

Soluble HLA class I and class II molecule levels in serum and cerebrospinal fluid of multiple sclerosis patients. Filaci G, et al. **Hum Immunol** 1997 Apr 15;54(1):54–62

Cell–mediated responses to donor endothelium: concerning the concern [letter; comment] Hosenpud JD. **J Heart Lung Transplant** 1997 Jun;16(6):687. Comment on: J Heart Lung Transplant 1996 Aug;15(8):853.

Identification of HLA class II antigens as the targets of effector clones which may cause transfusion–associated grâft–versus–host disease. Nishimura M, et al. **Transfus Med** 1997 Jun;7(2):89–94

[Activation of MHC–class II expression by interferon–gamma in acute pancreatitis in the rat model] Richter A, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:399–402 (Eng. Abstr.) **(Ger)**

[The functional activity of class–I and –II HLA antigens in pulmonary tuberculosis] Selitskaia RP, et al. **Probl Tuberk** 1996;(1):47–9 (Eng. Abstr.) **(Rus)**

CEREBROSPINAL FLUID

Soluble HLA class I and class II molecule levels in serum and cerebrospinal fluid of multiple sclerosis patients. Filaci G, et al. **Hum Immunol** 1997 Apr 15;54(1):54–62

CHEMISTRY

The solution structure of a class II major histocompatibility complex superantigen binding domain. Jablonsky MJ, et al. **Biochem Biophys Res Commun** 1997 May 29; 234(3):660–5

Molecular modeling and design of invariant chain peptides with altered dissociation kinetics from class II MHC. Liang MN, et al. **Biochemistry** 1996 Nov 26;35(47):14734–42

MHC class I and class II structures. Jones EY. **Curr Opin Immunol** 1997 Feb;9(1):75–9 (39 ref.)

The T cell antigen receptor beta chain interacts with the extracellular domain of CD3–gamma. Manolios N, et al. **Immunol Cell Biol** 1995 Dec;73(6):532–6

Selective contact during TCR recognition. Feng MH, et al. **Int Immunol** 1996 Jan;8(1):45–55

Molecular characterization of the diabetes–associated mouse MHC class II protein, I–Ag7. Reizis B, et al. **Int Immunol** 1997 Jan;9(1):43–51

Both invariant chain isoforms Ii31 and Ii41 promote class II antigen presentation. Serwe M, et al. **Int Immunol** 1997 Jul;9(7):983–91

Structure of HLA molecules and immunosuppressive effects of HLA derived peptides. Krensky AM, et al. **Int Rev Immunol** 1996;13(3):173–85 (56 ref.)

Trimeric interactions of the invariant chain and its association with major histocompatibility complex class II alpha beta dimers. Newcomb JR, et al. **J Biol Chem** 1996 Sep 27; 271(39):24249–56

A peptide–binding motif for I–A(g7), the class II major histocompatibility complex (MHC) molecule of NOD and Biozzi AB/H mice. Harrison LC, et al. **J Exp Med** 1997 Mar 17;185(6):1013–21

Identification of residues in the class II–associated Ii peptide (CLIP) region of invariant chain that affect efficiency of MHC class II–mediated antigen presentation in an allele–dependent manner. Gautam AM, et al. **J Immunol** 1997 Sep 15;159(6):2782–8

A negatively charged anchor residue promotes high affinity binding to the MHC class II molecule I–Ak. Nelson CA, et al. **J Immunol** 1996 Jul 15;157(2):755–62

Analysis of naturally processed peptides eluted from HLA DRB1*0402 and *0404. Hayden JB, et al. **J Neurosci Res** 1996 Sep 15;45(6):795–802

Stability of empty and peptide–loaded class II major histocompatibility complex molecules at neutral and endosomal pH: comparison to class I proteins. Reich Z, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2495–500

Antigen unfolding and disulfide reduction in antigen presenting cells. Jensen PE. **Semin Immunol** 1995 Dec; 7(6):347–53 (45 ref.)

The structure of MHC class II: a role for dimer of dimers. Schafer PH, et al. **Semin Immunol** 1995 Dec;7(6):389–98 (54 ref.)

Superantigens as immunomodulators: recent structural insights. Papageorgiou AC, et al. **Structure** 1997 Aug 15; 5(8):991–6 (37 ref.)

[Analysis of peptides associated with class II MHC molecules, HLA–DR3: implication for the prediction of peptides useful for vaccines] Georges B, et al. **C R Acad Sci III** 1996 Dec;319(12):1119–25 (Eng. Abstr.) **(Fre)**

CLASSIFICATION

Nomenclature for factors of the HLA system, update July 1996. The WHO Nomenclature Committee for factors of the HLA system. Marsh SG. **Hum Immunol** 1997 Jan; 52(1):72

Appreciating the complexity of MHC class II peptide binding: lysozyme peptide and I–Ak. Nelson CA, et al. **Immunol Rev** 1996 Jun;151:81–105 (57 ref.)

In vivo functions mediated by the p41 isoform of the MHC class II–associated invariant chain. Takaesu NT, et al. **J Immunol** 1997 Jan 1;158(1):187–99

DRUG EFFECTS

Inhibition of macrophage nitric–oxide production and Ia–expression by docosahexaenoic acid, a constituent of fetal and neonatal serum. Khair–el–Din TA, et al. **Am J Reprod Immunol** 1996 Jul;36(1):1–10

A computer screening approach to immunoglobulin superfamily structures and interactions: discovery of small non–peptidic CD4 inhibitors as novel immunotherapeutics. Li S, et al. **Proc Natl Acad Sci U S A** 1997 Jan 7;94(1):73–8

[The effect of platelet–activating factor and its synthetic analogs on Ia–antigen expression by mouse peritoneal macrophages] Shebzukhov IuV, et al. **Zh Mikrobiol Epidemiol Immunobiol** 1996 May–Jun; (3):114–7 (Eng. Abstr.) **(Rus)**

GENETICS

Major histocompatibility complex class II deficiency: a disease of gene regulation. Steimle V, et al. **Adv Immunol** 1996;61:327–40 (71 ref.)

Characterization of recombination in the HLA class II region. Cullen M, et al. **Am J Hum Genet** 1997 Feb; 60(2):397–407

The role of HLA class II genes in insulin–dependent diabetes mellitus: molecular analysis of 180 Caucasian, multiplex families. Noble JA, et al. **Am J Hum Genet** 1996 Nov; 59(5):1134–48

Familial hydronephrosis unlinked to the HLA complex. Santavá A, et al. **Am J Med Genet** 1997 May 16; 70(2):118–20

HLA class II alleles in Ainu living in Hidaka District, Hokkaido, northern Japan. Bannai M, et al. **Am J Phys Anthropol** 1996 Sep;101(1):1–9

Regulation of MHC class II genes: lessons from a disease. Mach B, et al. **Annu Rev Immunol** 1996;14:301–31 (138 ref.)

Cytokine regulation of major histocompatibility complex antigen expression by human oral and skin keratinocytes. Li J, et al. **Arch Oral Biol** 1996 Jun;41(6):533–8

Molecular analysis of major histocompatibility complex allelic associations with systemic lupus erythematosus in Taiwan. Lu LY, et al. **Arthritis Rheum** 1997 Jun; 40(6):1138–45

Evidence of a strong, positive association between atopy and the HLA class II alleles DR4 and DR7. Aron Y, et al. **Clin Exp Allergy** 1996 Jul;26(7):821–8

Primary pulmonary hypertension: immunogenetic response to high–mobility group (HMG) proteins and histone. Morse JH, et al. **Clin Exp Immunol** 1996 Nov;106(2):389–95

Coexpression of CD40 and class II antigen HLA–DR in Graves' disease thyroid epithelial cells. Faure GC, et al. **Clin Immunol Immunopathol** 1997 Aug;84(2):212–5

Class II haplotype differentially regulates immune response in HgCl2–treated mice. Hanley GA, et al. **Clin Immunol Immunopathol** 1997 Sep;84(3):328–37

Regulation of class II MHC expression. Rohn WM, et al. **Crit Rev Immunol** 1996;16(3):311–30 (172 ref.)

Expression of MHC class II molecules in different cellular and functional compartments is controlled by differential usage of multiple promoters of the transactivator CIITA. Muhlethaler–Mottet A, et al. **EMBO J** 1997 May 15;

16(10):2851–60

CD8 T cells from major histocompatibility complex class II–deficient mice respond vigorously to class II molecules in a primary mixed lymphocyte reaction. Shimizu T, et al. **Eur J Immunol** 1997 Feb;27(2):500–8

Retrovirus–mediated gene transfer of B7–1 and MHC class II converts a poorly immunogenic neuroblastoma into a highly immunogenic one. Heuer JG, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2059–68

Deficient positive selection of CD4 T cells in mice displaying altered repertoires of MHC class II–bound self–peptides. Grubin CE, et al. **Immunity** 1997 Aug;7(2):197–208

Targeted complementation of MHC class II deficiency by intrathymic delivery of recombinant adenoviruses. Rooke R, et al. **Immunity** 1997 Jul;7(1):123–34

Leishmania major infection in major histocompatibility complex class II–deficient mice: CD8+ T cells do not mediate a protective immune response. Erb K, et al. **Immunobiology** 1996 Jul;195(2):243–60

Analysis of genetic diversity at the DQA loci in African cattle: evidence for a BoLA–DQA3 locus. Ballingall KT, et al. **Immunogenetics** 1997;46(3):237–44

Mapping of mhc class I and class II regions to different linkage groups in the zebrafish, Danio rerio. Bingulac–Popovic J, et al. **Immunogenetics** 1997; 46(2):129–34

Identification of immunogenic epitopes of GAD 65 presented by Ag7 in non–obese diabetic mice. Chao CC, et al. **Immunogenetics** 1997;46(1):29–34

Enhancer activity in the 5' untranslated region of the H2–Eb gene. Janitz M, et al. **Immunogenetics** 1997;45(6):432–5

New chicken Rfp–Y haplotypes on the basis of MHC class II RFLP and MLC analyses. Juul–Madsen HR, et al. **Immunogenetics** 1997;45(6):345–52

Role of mouse and human class II transgenes in susceptibility to and protection against mouse autoimmune thyroiditis. Kong YM, et al. **Immunogenetics** 1997;46(4):312–7

Processing and presentation of endocytically acquired protein antigens by MHC class II and class I molecules. German RN, et al. **Immunol Rev** 1996 Jun;151:5–30 (122 ref.)

The endogenous pathway of MHC class II antigen presentation. Lechler R, et al. **Immunol Rev** 1996 Jun; 151:51–79 (117 ref.)

Regulation of the E beta gene in vivo: lessons from E beta d transgenic mice. Douhan J 3rd, et al. **Int Immunol** 1996 Feb;8(2):255–65

Highly efficient peptide binding and T cell activation by MHC class II molecules of CIITA–transfected cells. Martinez–Soria E, et al. **Int Immunol** 1996 Apr;8(4):543–9

Effects of transgenic mixed–haplotype MHC class II molecules A alpha d A beta z on autoimmune disease in New Zealand mice. Nishimura H, et al. **Int Immunol** 1996 Jun;8(6):967–76

Effects of cytokines and glucocorticoids on endogenous class II MHC antigen expression by activated rat CD4+ T cells. Mature CD4+ CD8– thymocytes are phenotypically heterogeneous on activation. Seddon B, et al. **Int Immunol** 1996 Aug;8(8):1185–93

HLA class II DNA typing in Buerger's disease. Aerbajinai W, et al. **Int J Cardiol** 1997 Aug;54 Suppl:S197–202

Haematopoietic progenitor cells transfected with a differentiation antigen show cellular transformation and tumour growth in mice. Huss R, et al. **Int J Exp Pathol** 1997 Jun;78(3):177–85

Cyclosporin–responsive pancytopenia and HLA class II alleles of a patient with paroxysmal nocturnal hemoglobinuria [letter] Horikawa K, et al. **Int J Hematol** 1996 Feb;63(2):165–6

The interaction of a type A retroviral particle and class II human leukocyte antigen susceptibility genes in the pathogenesis of Graves' disease. Jaspan JB, et al. **J Clin Endocrinol Metab** 1996 Jun;81(6):2271–9

The effects of chimeric cells following donor bone marrow infusions as detected by PCR–flow assays in kidney transplant recipients [published erratum appears in J Clin Invest 1997 May;99(9):2295] Garcia–Morales R, et al. **J Clin Invest** 1997 Mar 1;99(5):1118–29

Targeted expression of major histocompatibility complex (MHC) class II molecules demonstrates that dendritic cells can induce negative but not positive selection of thymocytes in vivo. Brocker T, et al. **J Exp Med** 1997 Feb 3;185(3):541–50

Identification of the rhesus monkey HLA–G ortholog. Mamu–G is a pseudogene. Boyson JE, et al. **J Immunol** 1996 Dec 15;157(12):5428–37

Activation and transdominant suppression of MHC class II and HLA–DMB promoters by a series of C–terminal class II transactivator deletion mutants. Chin KC, et al. **J Immunol** 1997 Sep 15;159(6):2789–94

Antigen–presenting cells in the thymus that can negatively select MHC class II–restricted T cells recognizing a circulating self antigen. Volkmann A, et al. **J Immunol** 1997 Jan 15;158(2):693–706

Nature and origin of polymorphism in feline MHC class II DRA and DRB genes. Yuhki N, et al. **J Immunol** 1997 Mar 15;158(6):2822–33

A mutation at glycine residue 31 of toxic shock syndrome toxin–1 defines a functional site critical for major histocompatibility complex class II binding and superantigenic activity. Kum WW, et al. **J Infect Dis** 1996 Dec;174(6):1261–70

HLA–DR5 and DQB1*03 class II alleles are associated with cutaneous T–cell lymphoma. Jackow CM, et al. **J Invest Dermatol** 1996 Sep;107(3):373–6

Human leukocyte antigen frequencies in a selected group of Lebanese Greek Orthodox. Malak RR, et al. **J Med Liban** 1997;45(2):78–83

Shared promoter elements between a viral superantigen and the major histocompatibility complex class II–associated invariant chain. Arroyo J, et al. **J Virol** 1997 Feb; 71(2):1237–45

The effect of immunosuppressive drugs on T cell signalling pathways: non–redundant steps in the T cell response. Halloran PF. **Kidney Blood Press Res** 1996;19(3–4):174–6 (19 ref.)

HLA and graft–versus–host disease: a population–based study of HLA phenotypes of Jewish and Arabic bone marrow transplanted patients in Israel. Bishara A, et al. **Leuk Res** 1997 Feb;21(2):111–8

CCAAT–binding factor NF–Y and RFX are required for in vivo assembly of a nucleoprotein complex that spans 250 base pairs: the invariant chain promoter as a model. Linhoff MW, et al. **Mol Cell Biol** 1997 Aug;17(8):4589–96

I–A beta gene expression regulation in macrophages derived from mice susceptible or resistant to infection with M. bovis BCG. Barrera LF, et al. **Mol Immunol** 1997 Mar; 34(4):343–55

The case of the bare lymphocyte syndrome––tracking down faulty transcription factors [editorial; comment] Schwartz RS. **N Engl J Med** 1997 Sep 11;337(11):781–3. Comment on: N Engl J Med 1997 Sep 11;337(11):748–53.

Evidence for a complex role of HLA class II genotypes in susceptibility to multiple sclerosis in Iceland. Haegert DG, et al. **Neurology** 1996 Apr;46(4):1107–11

Major histocompatibility complex class II deficiency needs an early diagnosis: report of a case. Canioni D, et al. **Pediatr Pathol Lab Med** 1997 Jul–Aug;17(4):645–51

Major histocompatibility complex class II–transfected tumor cells present endogenous antigen and are potent inducers of tumor–specific immunity. Armstrong TD, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6886–91

Major histocompatibility complex class II region confers susceptibility to Staphylococcus aureus arthritis. Abdelnour A, et al. **Scand J Immunol** 1997 Mar;45(3):301–7

T cells are unresponsive to transgenic MHC class II molecules expressed on pancreatic beta cells. Pilström B, et al. **Scand J Immunol** 1997 Apr;45(4):361–5

Linkage disequilibrium between HLA class II (DR, DQ, DP) and antigen processing (LMP, TAP, DM) genes of the major histocompatibility complex. Djilali–Saiah I, et al. **Tissue Antigens** 1996 Aug;48(2):87–92

Intrathymic maturation of CD4+ T–lymphocytes in an MHC class II deficient transplant model. Huss R, et al. **Tissue Antigens** 1997 Jan;49(1):70–3

African–American HLA class II allele and haplotype diversity [corrected and republished in Tissue Antigens 1997 May;49(5):547–55] Just JJ, et al. **Tissue Antigens** 1996 Dec;48(6):636–44

African–American HLA class II allele and haplotype diversity [corrected and republished article originally printed in Tissue Antigens 1996 Dec;48(6):636–44] Just JJ, et al. **Tissue Antigens** 1997 May;49(5):547–55

Molecular genetic analysis of HLA class II alleles in Japanese patients with melanoma. Kageshita T, et al. **Tissue Antigens** 1997 May;49(5):466–70

Genetic heterogeneity between type 1a and type 1b insulin–dependent diabetes mellitus: HLA class II and TAP gene analysis. Maugendre D, et al. **Tissue Antigens** 1996 Nov;48(5):540–8

Extensive HLA class II studies in 58 non–DRB1*15 (DR2) narcoleptic patients with cataplexy. Mignot E, et al. **Tissue Antigens** 1997 Apr;49(4):329–41

Molecular typing of HLA class I and class II antigens in Indian kala–azar patients. Singh N, et al. **Trop Med Int Health** 1997 May;2(5):468–71

Assignment of genes coding for leukocyte surface molecules to river buffalo chromosomes. el Nahas SM, et al. **Vet Immunol Immunopathol** 1996 Aug;52(4):435–43

Differential levels of mRNAs for cytokines, the interleukin–2 receptor and class II DR/DQ genes in ovine interstitial pneumonia induced by maedi visna virus infection. Woodall CJ, et al. **Vet Pathol** 1997 May;34(3):204–11

[Expression and prognostic significance of HLA–class I and II antigens, ICAM–1 and costimulatory molecule B7 in esophageal carcinoma] Stoecklein NH, et al. **Langenbecks Arch Chir Suppl Kongressbd** 1997;114:785–8 (Eng. Abstr.) **(Ger)**

[HLA class II alleles and leprosy (Hansen's disease) classified by WHO–MDT criteria] Joko S, et al. **Nippon Rai Gakkai Zasshi** 1996 Jul;65(2):121–7 (Eng. Abstr.) **(Jpn)**

IMMUNOLOGY

Staging of cardiac rejection by simultaneous administration of 123I–antimyosin and 111In–anti MHC class II antibodies. Isobe M, et al. **Acta Cardiol** 1996;51(6):515–20

Major histocompatibility complex class II deficiency: a disease of gene regulation. Steimle V, et al. **Adv Immunol** 1996;61:327–40 (71 ref.)

Anti–major histocompatibility complex antibody responses to simian B cells do not protect macaques against SIVmac infection. Polyanskaya N, et al. **AIDS Res Hum Retroviruses** 1997 Jul 20;13(11):923–31

Brefeldin A–induced alterations in processing of MHC class II–Ii complex depend upon microtubular function. Nguyen QV, et al. **Am J Hematol** 1997 Apr;54(4):282–7

Vogt–Koyanagi–Harada disease and HLA type in Italian patients. Pivetti–Pezzi P, et al. **Am J Ophthalmol** 1996 Dec; 122(6):889–91

Prolonged ischemia is associated with more pronounced rejection in the lung allograft. Serrick C, et al. **Ann Thorac Surg** 1997 Jan;63(1):202–8

Internalization and catabolism of radiolabelled antibodies to the MHC class–II invariant chain by B–cell lymphomas. Hansen HJ, et al. **Biochem J** 1996 Nov 15;320 (Pt 1):293–300

Peptide binding and antigen presentation by class II histocompatibility glycoproteins. Jensen PE. **Biopolymers** 1997;43(4):303–22 (160 ref.)

Activation of human T cells by major histocompatability complex class II expressing neutrophils: proliferation in the presence of superantigen, but not tetanus toxoid. Fanger NA, et al. **Blood** 1997 Jun 1;89(11):4128–35

Functional comparison of spleen dendritic cells and dendritic cells cultured in vitro from bone marrow precursors. Garrigan K, et al. **Blood** 1996 Nov 1;88(9):3508–12

European results of matched unrelated donor bone marrow transplantation for chronic myeloid leukemia. Impact of HLA class II matching. Chronic Leukemia Working Party of the European Group for Blood and Marrow Transplantation. Devergie A, et al. **Bone Marrow Transplant** 1997 Jul;20(1):11–9

MHC class II antigen–associated invariant chain on renal cell cancer may contribute to the anti–tumor immune response of the host [corrected and republished article originally printed in Cancer Lett 1996 Dec 3;109(1–2):15–21] Saito T, et al. **Cancer Lett** 1997 May 1; 115(1):121–7

Iron salts and iron–containing porphyrins block presentation of protein antigens by macrophages to MHC class II–restricted T cells. Carrasco–Marín E, et al. **Cell Immunol** 1996 Aug 1;171(2):173–85

A novel HLA class II–independent TCR–mediated T cell activation mechanism is distinguished by the V beta specificity of the proliferating oligoclones and their capacity to generate interleukin–2. Dennig D, et al. **Cell Immunol** 1996 Aug 1;171(2):200–10

Killing of rat adenocarcinoma 13762 in situ by adoptive transfer of CD4+ anti–tumor T cells requires tumor expression of cell surface MHC class II molecules. Frey AB, et al. **Cell Immunol** 1997 May 25;178(1):79–90

Inhibitory effects of thymus–independent type 2 antigens on MHC class II–restricted antigen presentation: comparative analysis of carbohydrate structures and the antigen presenting cell. González–Fernández M, et al. **Cell Immunol** 1997 Feb 25;176(1):1–13

Identification of MHC class II and TCR binding residues in the type II collagen immunodominant determinant mediating collagen–induced arthritis. Rosloniec EF, et al. **Cell Immunol** 1996 Aug 25;172(1):21–8

MHC class II–mediated T cell response to DNA. Waisman A, et al. **Cell Immunol** 1996 Oct 10;173(1):7–14

Major histocompatibility complex class II antigen expression in rejecting cardiac allografts: detection using in vivo imaging with radiolabeled monoclonal antibody. McGhie AI, et al. **Circulation** 1997 Sep 2;96(5):1605–11

HLA class II antigens and T lymphocytes in human nasal epithelial cells. Modulation of the HLA class II gene transcripts by gamma interferon. Wang D, et al. **Clin Exp Allergy** 1997 Mar;27(3):306–14

Hypogammaglobulinaemia occurs in Fas–deficient MRL–lpr mice following deletion of MHC class II molecules. Anderson CC, et al. **Clin Exp Immunol** 1997 Sep; 109(3):473–9

Antagonists of cyclic nucleotide phosphodiesterase (PDE) isozymes PDE 3 and PDE 4 suppress lymphoblastic response to HLA class II alloantigens: a potential novel approach to preventing allograft rejection? Dousa MK, et al. **Clin Nephrol** 1997 Mar;47(3):187–9

Studies on the interaction of T–cells with major histocompatibility complex class II antigens. Warrens AN. **Clin Sci (Colch)** 1997 Jan;92(1):25–36

Regulation of class II MHC expression. Rohn WM, et al. **Crit Rev Immunol** 1996;16(3):311–30 (172 ref.)

T–cell repertoire: political correctness in the immune system. Lucas B, et al. **Curr Biol** 1996 Jul 1;6(7):783–7 (12 ref.)

MHC class II restricted antigen presentation. Pieters J. **Curr Opin Immunol** 1997 Feb;9(1):89–96 (84 ref.)

Mechanisms influencing the selection of T cell epitopes by MHC class II molecules. Mouritsen S. **Dan Med Bull** 1997 Apr;44(2):125–39 (170 ref.)

Characterization of five monoclonal antibodies specific for swine class II major histocompatibility antigens and crossreactivity studies with leukocytes of domestic animals. Bullido R, et al. **Dev Comp Immunol** 1997 May–Jun; 21(3):311–22

Major histocompatibility complex class II molecules function as a template for the processing of a partially processed insulin peptide into a T–cell epitope. Lang Y, et al. **Diabetes** 1996 Dec;45(12):1711–9

MHC class II–dependent abnormal reactivity toward bacterial superantigens in immune cells of NOD mice. Radons J, et al. **Diabetes** 1997 Mar;46(3):379–85

Expression and function of HLA–DQ8 (DQA1*0301/DQB1*0302) genes in transgenic mice. Cheng S, et al. **Eur J Immunogenet** 1996 Feb;23(1):15–20

The specificity of anti-HLA class II monoclonal antibodies in cattle. Nilsson PR, et al. **Eur J Immunogenet** 1997 Jun; 24(3):211–23

Complexity of the bovine MHC class–II specificity DW3 as defined by alloantisera. Nilsson R, et al. **Eur J Immunogenet** 1994 Jun;21(3):169–80

Co–receptor–independent signal transduction in a mismatched CD8+ major histocompatibility complex class II–specific allogeneic cytotoxic T lymphocyte. Eshima K, et al. **Eur J Immunol** 1997 Jan;27(1):55–61

Selectivity of the major histocompatibility complex class II presentation pathway of cortical thymic epithelial cell lines. Oukka M, et al. **Eur J Immunol** 1997 Apr;27(4):855–9

CD8 T cells from major histocompatibility complex class II–deficient mice respond vigorously to class II molecules in a primary mixed lymphocyte reaction. Shimizu T, et al. **Eur J Immunol** 1997 Feb;27(2):500–8

Carboxy–terminal residues of major histocompatibility complex class II–associated peptides control the presentation of the bacterial superantigen toxic shock syndrome toxin–1 to T cells. Wen R, et al. **Eur J Immunol** 1997 Mar;27(3):772–81

Neuronal control of MHC class II inducibility in rat astrocytes and microglia. Neumann H, et al. **Eur J Neurosci** 1996 Dec;8(12):2582–90

Antigen processing: approaches for dissecting subcellular mechanisms that form the basis for T–cell responses modulating allergic reactions. Harding CV. **Eur Respir J Suppl** 1996 Aug;22:79s–84s

The influence of class II HLA type on the lymphoproliferative response of normal donors to a bcr–abl fusion peptide. MacIntyre AR, et al. **Exp Hematol** 1996 Sep;24(11):1307–11

The role of major and minor histocompatibility antigens in orthotopic corneal transplantation in mice. Hašková Z, et al. **Folia Biol (Praha)** 1996;42(3):105–11

Retrovirus–mediated gene transfer of B7–1 and MHC class II converts a poorly immunogenic neuroblastoma into a highly immunogenic one. Heuer JG, et al. **Hum Gene Ther** 1996 Nov 10;7(17):2059–68

Antigen presentation by MHC class II molecules: invariant chain function, protein trafficking, and the molecular basis of diverse determinant capture. Castellino F, et al. **Hum Immunol** 1997 May;54(2):159–69 (88 ref.)

MHC class II–dependent peptide antigen versus superantigen presentation to T cells. Shoukry NH, et al. **Hum Immunol** 1997 May;54(2):194–201 (60 ref.)

Characterization and quantitation of peptide–MHC complexes produced from hen egg lysozyme using a monoclonal antibody. Dadaglio G, et al. **Immunity** 1997 Jun;6(6):727–38

Targeted complementation of MHC class II deficiency by intrathymic delivery of recombinant adenoviruses. Rooke R, et al. **Immunity** 1997 Jul;7(1):123–34

Leishmania major infection in major histocompatibility complex class II–deficient mice: CD8+ T cells do not mediate a protective immune response. Erb K, et al. **Immunobiology** 1996 Jul;195(2):243–60

The helper T–cell repertoire of mice expressing class II major histocompatibility complex beta chains in the absence of alpha chains. Vidović D, et al. **Immunogenetics** 1997; 45(5):325–35

Antigen presentation by MHC class II molecules. Weenink SM, et al. **Immunol Cell Biol** 1997 Feb;75(1):69–81 (106 ref.)

Modulation of immune responses by bovine beta–casein. Wong CW, et al. **Immunol Cell Biol** 1996 Aug;74(4):323–9

Intracellular signaling and endosomal trafficking of immunoreceptors. Shared effectors underlying MHC class II–restricted antigen presentation. Bonnerot C, et al. **Immunol Lett** 1997 Jun 1;57(1–3):1–4 (35 ref.)

Collaboration of TCR–, CD4– and CD28–mediated signalling in antigen–specific MHC class II–restricted T–cells. Gogolák P, et al. **Immunol Lett** 1996 Dec; 54(2–3):135–44

Lateral dynamics of major histocompatibility complex class II molecules bound with agonist peptide or altered peptide ligands. Qiu Y, et al. **Immunol Lett** 1996 Oct;53(1):19–23

Processing and presentation of endocytically acquired protein antigens by MHC class II and class I molecules. German RN, et al. **Immunol Rev** 1996 Jun;151:5–30 (122 ref.)

The endogenous pathway of MHC class II antigen presentation. Lechler R, et al. **Immunol Rev** 1996 Jun; 151:51–79 (117 ref.)

The role of endogenous peptides in the direct pathway of alloreactivity to human MHC class II molecules expressed on CHO cells. Pawelec G, et al. **Immunol Rev** 1996 Dec; 154:155–73 (53 ref.)

Lowering the tone: mechanisms of immunodominance among epitopes with low affinity for MHC [see comments] Fairchild PJ, et al. **Immunol Today** 1996 Feb;17(2):80–85 (51 ref.). Comment in: Immunol Today 1997 Feb;18(2):97–8.

Alleviation of insulitis in NOD mice is associated with expression of transgenic MHC E molecules on primary antigen–presenting cells. Pilström B, et al. **Immunology** 1997 Apr;90(4):483–8

Intranasal antigen targeting to MHC class II molecules primes local IgA and serum IgG antibody responses in mice. Snider DP, et al. **Immunology** 1997 Mar;90(3):323–9

Lymphocytes from site of disease indicate probable microbiological etiology of "infective–immune" diseases such as rheumatoid arthritis. Ford DK, et al. **Infect Agents Dis** 1996 Oct;5(4):223–30 (62 ref.)

Dermatophagoides farinae–1–derived peptides and HLA molecules recognized by T cells from atopic individuals. Matsuoka T, et al. **Int Arch Allergy Immunol** 1997 Apr; 112(4):365–70

A novel first primary anchor extends the MHC class II I–Ad binding motif to encompass nine amino acids. Bartnes K, et al. **Int Immunol** 1997 Aug;9(8):1185–93

Peptide analogs with different affinites for MHC alter the cytokine profile of T helper cells. Chaturvedi P, et al. **Int Immunol** 1996 May;8(5):745–55

Functional consequences of the binding of MHC class II–derived peptides to MHC class II. Feili–Hariri M, et al. **Int Immunol** 1996 Dec;8(12):1857–65

The mode of protein antigen administration determines preferential presentation of peptide–class II complexes by lymph node dendritic or B cells. Guéry JC, et al. **Int Immunol** 1997 Jan;9(1):9–15

Comparison of thymocyte development in normal and invariant chain–deficient mice provides evidence that maturation–related changes in TCR and co–receptor levels play a critical role in cell fate. Huang LY, et al. **Int Immunol** 1996 Sep;8(9):1429–40

Induction of T cell responses to the invariant chain derived peptide CLIP in mice immunized with the group 1 allergen of house dust mite. Kristensen NM, et al. **Int Immunol** 1996 Jul;8(7):1091–8

Highly efficient peptide binding and T cell activation by MHC class II molecules of CIITA–transfected cells. Martinez–Soria E, et al. **Int Immunol** 1996 Apr;8(4):543–9

Definition of an extended MHC class II–peptide binding motif for the autoimmune disease–associated Lewis rat RT1.BL molecule. Wauben MH, et al. **Int Immunol** 1997 Feb;9(2):281–90

A continuous central motif of invariant chain peptides, CLIP, is essential for binding to various I–A MHC class II molecules. Weenink SM, et al. **Int Immunol** 1997 Feb; 9(2):317–25

B cell antigen receptor signaling links biochemical changes in the class II peptide–loading compartment to enhanced processing. Xu X, et al. **Int Immunol** 1996 Dec; 8(12):1867–76

Class II antigen processing compartments and the function of HLA–DM. Green JM, et al. **Int Rev Immunol** 1996; 13(3):209–19 (70 ref.)

Th2 and Th1 autoreactive anti–class II cell lines in the rat suppress or induce autoimmunity. Druet P, et al. **J Autoimmun** 1996 Apr;9(2):221–6 (44 ref.)

Beta–cell reactive T–cell clones from type I diabetes patients are not beta cell specific and recognize multiple antigens. Kallan AA, et al. **J Autoimmun** 1995 Dec;8(6):887–99

A structural model for TCR recognition of the HLA class II shared epitope sequence implicated in susceptibility to rheumatoid arthritis. Penzotti JE, et al. **J Autoimmun** 1996 Apr;9(2):287–93

Induction of tolerance in experimental autoimmune myasthenia gravis with solubilized MHC class II:acetylcholine receptor peptide complexes. Spack EG, et al. **J Autoimmun** 1995 Dec;8(6):787–807

Selective modulation of the major histocompatibility complex class II antigen presentation pathway following B cell receptor ligation and protein kinase C activation. Barois N, et al. **J Biol Chem** 1997 Feb 7;272(6):3641–7

Autoimmunity associated with TGF–beta1–deficiency in mice is dependent on MHC class II antigen expression. Letterio JJ, et al. **J Clin Invest** 1996 Nov 1;98(9):2109–19

Transforming growth factor beta (TGF–beta)–dependent inhibition of T helper cell 2 (Th2)–induced autoimmunity by self–major histocompatibility complex (MHC) class II–specific, regulatory CD4(+) T cell lines. Bridoux F, et al. **J Exp Med** 1997 May 19;185(10):1769–75

High levels of a major histocompatibility complex II–self peptide complex on dendritic cells from the T cell areas of lymph nodes. Inaba K, et al. **J Exp Med** 1997 Aug 29; 186(5):665–72

Invariant chain and DM edit self–peptide presentation by major histocompatibility complex (MHC) class II molecules. Katz JF, et al. **J Exp Med** 1996 Nov 1; 184(5):1747–53

Thymocytes can become mature T cells without passing through the CD4+ CD8+, double–positive stage. Liu CP, et al. **J Exp Med** 1996 Nov 1;184(5):1619–30

Influence of the NH2–terminal amino acid of the T cell receptor alpha chain on major histocompatibility complex (MHC) class II + peptide recognition. Seibel JL, et al. **J Exp Med** 1997 Jun 2;185(11):1919–27

Antigen–unspecific B cells and lymphoid dendritic cells both show extensive surface expression of processed antigen–major histocompatibility complex class II complexes after soluble protein exposure in vivo or in vitro. Zhong G, et al. **J Exp Med** 1997 Aug 29;186(5):673–82

The avidity, not the mere presence, of primed cytotoxic T–lymphocytes for donor human leukocyte class II antigens determines their clinical relevance after heart transplantation. van Emmerik NE, et al. **J Heart Lung Transplant** 1997 Feb;16(2):240–9

Phagocytotic processing of apoptotic bodies of transitional ameloblasts by MHC Class II–expressing macrophages in rat incisor. Nishikawa S, et al. **J Histochem Cytochem** 1996 Dec;44(12):1459–67

Class I– and class II–reactive TCRs coexpressed on CD4+ T cells both trigger CD4/CD8–shared and CD4–unique functions. Asnagli H, et al. **J Immunol** 1997 May 15; 158(10):4533–42

Augmentation of mature CD4+ T cell responses to isolated antigenic class II proteins by fibronectin and intercellular adhesion molecule–1. Brunmark A, et al. **J Immunol** 1997 Aug 15;159(4):1676–85

TCR recognition of the Hb(64–76)/I–Ek determinant: single conservative amino acid changes in the complementarity–determining region 3 dramatically alter antigen fine specificity. Hsu BL, et al. **J Immunol** 1996 Sep 15;157(6):2291–8

Carbohydrate and peptide specificity of MHC class II–restricted T cell hybridomas raised against an O–glycosylated self peptide. Jensen T, et al. **J Immunol** 1997 Apr 15;158(8):3769–78

Intraocular injection of class II–restricted peptide induces an unexpected population of CD8 regulatory cells. Kosiewicz MM, et al. **J Immunol** 1996 Sep 1;157(5):1905–12

Rapid commitment to negative selection of a thymocyte line independent of CD4 co–engagement. Kovalik JP, et al. **J Immunol** 1996 Dec 15;157(12):5290–9

Induction of thymocyte deletion by purified single peptide/major histocompatibility complex ligands. Lesage S, et al. **J Immunol** 1997 Sep 1;159(5):2078–81

Regulation of memory CD4 T cell adhesion by CD4–MHC class II interaction. Metz DP, et al. **J Immunol** 1997 Sep 15;159(6):2567–73

Up–regulation of cytokine mRNA, adhesion molecule proteins, and MHC class II proteins in salivary glands of TGF–beta1 knockout mice: MHC class II is a factor in the pathogenesis of TGF–beta1 knockout mice. Nakabayashi T, et al. **J Immunol** 1997 Jun 1; 158(11):5527–35

Characterization of transport of newly assembled, T cell–stimulatory MHC class II–peptide complexes from MHC class II compartments to the cell surface. Pond L, et al. **J Immunol** 1997 Jul 15;159(2):543–53

Initiation of autoimmune diabetes in NOD/Lt mice is MHC class I–dependent. Serreze DV, et al. **J Immunol** 1997 Apr 15;158(8):3978–86

Role of CD4+ T cells in pathogenesis associated with Leishmania amazonensis infection. Soong L, et al. **J Immunol** 1997 Jun 1;158(11):5374–83

Bone marrow–derived dendritic cells can process bacteria for MHC–I and MHC–II presentation to T cells. Svensson M, et al. **J Immunol** 1997 May 1;158(9):4229–36

Exhaustion of CTL memory and recrudescence of viremia in lymphocytic choriomeningitis virus–infected MHC class II–deficient mice and B cell–deficient mice. Thomsen AR, et al. **J Immunol** 1996 Oct 1;157(7):3074–80

MHC class II molecules are required for initiation of positive selection but not during terminal differentiation of human CD4 single positive thymocytes. Vanhecke D, et al. **J Immunol** 1997 Apr 15;158(8):3730–7

Selection of phage–displayed superantigen by binding to cell–surface MHC class II. Wung JL, et al. **J Immunol Methods** 1997 May 12;204(1):33–41

Interferon–gamma and interleukin–10 have cross–regulatory roles in modulating the class I and class II MHC–mediated presentation of epitopes of Listeria monocytogenes by infected macrophages. Hiltbold EM, et al. **J Interferon Cytokine Res** 1996 Jul;16(7):547–54

Microbial superantigens stimulate T cells by the superantigen bridge and independently by a cytokine pathway. Rink L, et al. **J Interferon Cytokine Res** 1997 Aug;17(8):489–99

Induction of HLA class II in HTLV–I infected neuronal cell lines. Lehky TJ, et al. **J Neurovirol** 1995 Jun; 1(2):145–56

Prostaglandin E2 modulates monocyte MHC–II (Ia) suppression in biomaterial infection. Henke PK, et al. **J Surg Res** 1997 May;69(2):372–8

Immunomodulatory peptides with high binding affinity for class II MHC molecules for the prevention of graft–versus–host disease. Schlegel PG, et al. **Leuk Lymphoma** 1996 Sep;23(1–2):11–6 (47 ref.)

HLA and graft–versus–host disease: a population–based study of HLA phenotypes of Jewish and Arabic bone marrow transplanted patients in Israel. Bishara A, et al. **Leuk Res** 1997 Feb;21(2):111–8

The MHC class II–restricted T cell response of C57BL/6 mice to human C–reactive protein: homology to self and the selection of T cell epitopes and T cell receptors. Döffinger R, et al. **Mol Immunol** 1997 Feb;34(2):115–24

On the immunogenic properties of retro–inverso peptides. Total retro–inversion of T–cell epitopes causes a loss of binding to MHC II molecules. Hervé M, et al. **Mol Immunol** 1997 Feb;34(2):157–63

MHC–binding peptide prediction on the Web [news] Featherstone C. **Mol Med Today** 1996 Dec;2(12):491

Induction of major histocompatibility class II antigen on microglial cells in postnatal and adult rats following intraperitoneal injections of lipopolysaccharide. Ng YK, et al. **Neurosci Res** 1997 Jun;28(2):111–8

Substitution of peptide bond 53–54 of HEL(52–61) with an ethylene bond rather than reduced peptide bond is tolerated by an MHC–II restricted T cell. Ettouati L, et al. **Pept Res** 1996 Sep–Oct;9(5):248–53

Presentation of a cytosolic antigen by major histocompatibility complex class II molecules requires a long–lived form of the antigen. Guéguen M, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14692–7

Selective binding of bacterial toxins to major histocompatibility complex class II–expressing cells is controlled by invariant chain and HLA–DM. Lavoie PM, et al. **Proc Natl Acad Sci U S A** 1997 Jun 24;94(13):6892–7

Amino–terminal trimming of peptides for presentation on major histocompatibility complex class II molecules. Nelson CA, et al. **Proc Natl Acad Sci U S A** 1997 Jan 21;94(2):628–33

Specific T cell recognition of kinetic isomers in the binding of peptide to class II major histocompatibility complex. Rabinowitz JD, et al. **Proc Natl Acad Sci U S A** 1997 Aug 5;94(16):8702–7

Induction of Graves–like disease in mice by immunization with fibroblasts transfected with the thyrotropin receptor and a class II molecule. Shimojo N, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1;93(20):11074–9

Functionality of major histocompatibility complex class II molecules in mice doubly deficient for invariant chain and H–2M complexes. Tourne S, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9255–60

Introduction: novel specific immunity functioning alongside classical specific immunity. Gachelin G, et al. **Res Immunol** 1996 Jun;147(5):275–8 (6 ref.)

Enhancement of class II–restricted T cell responses by costimulatory NK receptors for class I MHC proteins. Mandelboim O, et al. **Science** 1996 Dec 20; 274(5295):2097–100

The function of invariant chain in class II–restricted antigen presentation. Ceman S, et al. **Semin Immunol** 1995 Dec; 7(6):373–87 (88 ref.)

Binding domain regulation of MHC class II molecule assembly, trafficking, fate, and function. Germain RN. **Semin Immunol** 1995 Dec;7(6):361–72 (85 ref.)

Endogenous peptides associated with MHC class II and selection of CD4 T cells. Rudensky AY. **Semin Immunol** 1995 Dec;7(6):399–409 (84 ref.)

Antigen processing and presentation [see comments] Brodsky FM, et al. **Tissue Antigens** 1996 Jun;47(6):464–71 (68 ref.) . Comment in: Tissue Antigens 1996 Jun;47(6):457–9.

MHC class II tolerant T cells undergo apoptosis upon re–exposure to tolerogen in vivo. Alard P, et al. **Transpl Immunol** 1996 Mar;4(1):76–80

In vitro immunomodulation of human islet allografts using mixed islet lymphocyte coculture. Barrou B, et al. **Transplant Proc** 1997 Aug;29(5):2396

Xenogeneic but not allogeneic pancreatic islet graft survival in recipients lacking humoral immunity and major histocompatibility complex class II antigens. Chu G, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):901–2

Specificity of effector mechanisms in syngeneic graft–vs–host disease: recognition of the MHC class II invariant chain peptide (CLIP). Hess A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):725–7

Role of cell surface molecules in tolerance induction after intrathymic injection of donor splenocytes. Hirano T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1072

Bidirectional blockade of CD4 and MHC class II molecules is an effective immunosuppressive treatment. Ito H, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1288–9

Infusion of class II DIM donor bone marrow enhances islet allograft survival in low–dose CyA treated dogs. Kenyon NS, et al. **Transplant Proc** 1997 Jun;29(4):2189

Rat kidney graft survival after elimination of MHC class II–positive cells by perfusion with monoclonal antibody. Oko A, et al. **Transplant Proc** 1996 Dec;28(6):3480–2

Class II MHC allopeptide–specific T–cell clones transfer delayed type hypersensitivity responses in vivo. Waaga AM, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1008–9

Costimulatory molecule–deficient dendritic cell progenitors (MHC class II+, CD80dim, CD86–) prolong cardiac allograft survival in nonimmunosuppressed recipients. Fu F, et al. **Transplantation** 1996 Sep 15;62(5):659–65

Detection of HLA class I– and class II–specific antibodies by flow cytometry and PRA–STAT screening in renal transplant recipients. Harmer AW, et al. **Transplantation** 1997 Jun 27;63(12):1828–32

Association between HLA–DPB1 matching and 1–year rejection–free graft survival in high–risk corneal transplantation. Munkhbat B, et al. **Transplantation** 1997 Apr 15;63(7):1011–6

Peptide specificity of alloreactive CD4 positive T lymphocytes directed against a major histocompatibility complex class I disparity. Ossevoort MA, et al. **Transplantation** 1996 Nov 27;62(10):1485–91

Prolongation of murine vascularized heart allograft survival by recipient–specific anti–major histocompatibility complex class II antibody. Smith RM, et al. **Transplantation** 1997 Aug 15;64(3):525–8

Comparison of immunological changes between subcutaneous and intravenous route of administration of IL–2 in cancer patients. Nouri AM, et al. **Urol Int** 1996; 56(1):1–5

Phylogenetically conserved epitopes of leukocyte antigens. Vilmos P, et al. **Vet Immunol Immunopathol** 1996 Aug; 52(4):415–26

[Immune response of lymphocytes: new concepts] Titova NG. **Vestn Ross Akad Med Nauk** 1996;(5):18–24 (50 ref.) (Eng. Abstr.) **(Rus)**

METABOLISM

Peptide binding by class I and class II MHC molecules. Batalia MA, et al. **Biopolymers** 1997;43(4):281–302 (74 ref.)

Major histocompatibility complex class II deficiency: a clinical review. Elhasid R, et al. **Blood Rev** 1996 Dec; 10(4):242–8 (39 ref.)

Vitamin D3 reduces the apoptotic effect of IFN–gamma but does not facilitate HLA class II inducibility in RB–defective cells. Schmidt B, et al. **Cancer Lett** 1996 Dec 20;110(1–2):169–76

Differentially expressed MHC class II–associated invariant chain in rat stomach pyloric mucosa with N–methyl–N–nitro–nitrosoguanidine exposure. Furihata C, et al. **Cancer Res** 1997 Apr 15;57(8):1416–8

T–cell recognition of tumor–associated carbohydrates: the nature of the glycan moiety plays a decisive role in determining glycopeptide immunogenicity. Galli–Stampino L, et al. **Cancer Res** 1997 Aug 1;57(15):3214–22

Nonionic triblock copolymers facilitate delivery of exogenous proteins into the MHC class I and class II processing pathways. Ke Y, et al. **Cell Immunol** 1997 Mar 15;176(2):113–21

Abnormal association between invariant chain and HLA class II alpha and beta chains in chronic lymphocytic leukemia. Veenstra H, et al. **Cell Immunol** 1996 Jul 10;171(1):68–73

Assembly and intracellular transport of MHC class I and class II molecules. Jackson MR, et al. **Cold Spring Harb Symp Quant Biol** 1995;60:249–61 (118 ref.)

Class II antigen processing: analysis of compartments and functions. Harding CV. **Crit Rev Immunol** 1996;16(1):13–29 (165 ref.)

Antigen presentation: Kissing cousins exchange CLIP. Sanderson F, et al. **Curr Biol** 1995 Dec 1;5(12):1372–6 (18 ref.)

Developing and shedding inhibitions: how MHC class II molecules reach maturity. Busch R, et al. **Curr Opin Immunol** 1996 Feb;8(1):51–8 (77 ref.)

Antigen recognition. Cresswell P, et al. **Curr Opin Immunol** 1997 Feb;9(1):71–4 (26 ref.)

Editing of the HLA–DR–peptide repertoire by HLA–DM. Kropshofer H, et al. **EMBO J** 1996 Nov 15;15(22):6144–54

Distinct antigen MHC class II complexes generated by separate processing pathways. Lindner R, et al. **EMBO J** 1996 Dec 16;15(24):6910–20

Engagement of the B lymphocyte antigen receptor induces presentation of intrinsic immunoglobulin peptides on major histocompatibility complex class II molecules. Bartnes K, et al. **Eur J Immunol** 1997 May;27(5):1124–30

Fc gamma receptor II dependency of enhanced presentation of major histocompatibility complex class II peptides by a B cell lymphoma. Berg M, et al. **Eur J Immunol** 1997 Apr;27(4):1022–8

Excessive degradation of intracellular protein in macrophages prevents presentation in the context of major histocompatibility complex class II molecules. Brazil MI, et al. **Eur J Immunol** 1997 Jun;27(6):1506–14

Assembly of an abundant endogenous major histocompatibility complex class II/peptide complex in class II compartments. Morkowski S, et al. **Eur J Immunol** 1997 Mar;27(3):609–17

Late events in the intracellular sorting of major histocompatibility complex class II molecules are regulated by the 80–82 segment of the class II beta chain. Tan LJ, et al. **Eur J Immunol** 1997 Jun;27(6):1479–88

Inhibition of experimental autoimmune myasthenia gravis by major histocompatibility complex class II competitor peptides results not only in a suppressed but also in an altered immune response. Wauben MH, et al. **Eur J Immunol** 1996 Dec;26(12):2866–75

The interaction of sperm cells with exogenous DNA: a role of CD4 and major histocompatibility complex class II molecules. Lavitrano M, et al. **Exp Cell Res** 1997 May 25; 233(1):56–62

Interleukin–4 down–regulates MHC class II antigens on cultured rat astrocytes. Morga E, et al. **Glia** 1996 Jun; 17(2):175–9

Positive and negative CD4+ thymocyte selection by a single MHC class II/peptide ligand affected by its expression level in the thymus. Fukui Y, et al. **Immunity** 1997 Apr; 6(4):401–10

Deficient positive selection of CD4 T cells in mice displaying altered repertoires of MHC class II–bound self–peptides. Grubin CE, et al. **Immunity** 1997 Aug;7(2):197–208

Antigen presentation by MHC class I and II molecules. Neefjes JJ. **Immunobiology** 1996 Oct;195(4–5):456–60 (28 ref.)

Impact of a truncated invariant chain on in vitro assembly of class II MHC molecules depends on the affinity of invariant chain for a given alpha beta dimer. Han R. **Immunol Invest** 1997 Jun;26(4):421–37

Appreciating the complexity of MHC class II peptide binding: lysozyme peptide and I–Ak. Nelson CA, et al. **Immunol Rev** 1996 Jun;151:81–105 (57 ref.)

How HLA–DM edits the MHC class II peptide repertoire: survival of the fittest? Kropshofer H, et al. **Immunol Today** 1997 Feb;18(2):77–82 (35 ref.)

Control of major histocompatibility complex class II expression on human monocytes by interleukin–4: regulatory effect of lipopolysaccharide. Hart PH, et al. **Immunology** 1996 Dec;89(4):599–605

Peptide analogs with different affinites for MHC alter the cytokine profile of T helper cells. Chaturvedi P, et al. **Int Immunol** 1996 May;8(5):745–55

Functional consequences of the binding of MHC class II–derived peptides to MHC class II. Feili–Hariri M, et al. **Int Immunol** 1996 Dec;8(12):1857–65

The peptide binding specificity of the MHC class II I–A molecule of the Lewis rat, RT1.BI. Reizis B, et al. **Int Immunol** 1996 Dec;8(12):1825–32

Both invariant chain isoforms Ii31 and Ii41 promote class II antigen presentation. Serwe M, et al. **Int Immunol** 1997 Jul;9(7):983–91

Impaired antigen presentation by murine I–Ad class II MHC molecules expressed in normal and HLA–DM–defective human B cell lines. Weenink S, et al. **Int Immunol** 1997 Jun;9(6):889–96

A continuous central motif of invariant chain peptides, CLIP, is essential for binding to various I–A MHC class II molecules. Weenink SM, et al. **Int Immunol** 1997 Feb; 9(2):317–25

B cell antigen receptor signaling links biochemical changes in the class II peptide–loading compartment to enhanced processing. Xu X, et al. **Int Immunol** 1996 Dec; 8(12):1867–76

Modulation of major histocompatibility complex class II expression in retinas with age–related macular degeneration. Penfold PL, et al. **Invest Ophthalmol Vis Sci** 1997 Sep;38(10):2125–33

Lupus nephritis in the absence of renal major histocompatibility complex class I and class II molecules. Mukherjee R, et al. **J Am Soc Nephrol** 1996 Nov; 7(11):2445–52

Characterization of a lysozyme–major histocompatibility complex class II molecule–loading compartment as a specialized recycling endosome in murine B lymphocytes. Escola JM, et al. **J Biol Chem** 1996 Nov 1;271(44):27360–5

Exon 6 is essential for invariant chain trimerization and induction of large endosomal structures. Gedde–Dahl M, et al. **J Biol Chem** 1997 Mar 28;272(13):8281–7

Structural requirements for major histocompatibility complex class II invariant chain trafficking in polarized Madin–Darby canine kidney cells. Odorizzi G, et al. **J Biol Chem** 1997 May 2;272(18):11757–62

Decreased endosomal delivery of major histocompatibility complex class II–invariant chain complexes in dynamin–deficient cells. Wang K, et al. **J Biol Chem** 1997 Jul 4;272(27):17055–60

Ii chain controls the transport of major histocompatibility complex class II molecules to and from lysosomes. Brachet V, et al. **J Cell Biol** 1997 Apr 7;137(1):51–65

Sorting of MHC class II molecules and the associated invariant chain (Ii) in polarized MDCK cells. Simonsen A, et al. **J Cell Sci** 1997 Mar;110 (Pt 5):597–609

Relevance of major histocompatibility complex class II expression as a hallmark for the cellular differentiation in the human adrenal cortex. Marx C, et al. **J Clin Endocrinol Metab** 1997 Sep;82(9):3136–40

Effect of interferon–gamma and glucose on major histocompatibility complex class I and class II expression by pancreatic beta– and non–beta–cells. Pavlovic D, et al. **J Clin Endocrinol Metab** 1997 Jul;82(7):2329–36

Human histocompatibility leukocyte antigen (HLA)–DM edits peptides presented by HLA–DR according to their ligand binding motifs. van Ham SM, et al. **J Exp Med** 1996 Nov 1;184(5):2019–24

Degradation of mouse invariant chain: roles of cathepsins S and D and the influence of major histocompatibility complex polymorphism. Villadangos JA, et al. **J Exp Med** 1997 Aug 18;186(4):549–60

Evidence that binding site occupancy is necessary and sufficient for effective major histocompatibility complex (MHC) class II transport through the secretory pathway redefines the primary function of class II–associated invariant chain peptides (CLIP). Zhong G, et al. **J Exp Med** 1996 Nov 1;184(5):2061–6

Enhancement of cytomegalovirus infection and acute rejection after allogeneic lung transplantation in the rat: virus–induced expression of major histocompatibility complex class II antigens. You XM, et al. **J Heart Lung Transplant** 1996 Nov;15(11):1108–19

Kinetics of generation and persistence on membrane class II molecules of a viral peptide expressed on foreign and self proteins. Bot A, et al. **J Immunol** 1996 Oct 15; 157(8):3436–42

The proteolytic environment involved in MHC class II–restricted antigen presentation can be modulated by the p41 form of invariant chain. Fineschi B, et al. **J Immunol** 1996 Oct 15;157(8):3211–5

Down–regulation of poison ivy/oak–induced contact sensitivity by treatment with a class II MHC binding peptide:hapten conjugate. Gelber C, et al. **J Immunol** 1997 Mar 1;158(5):2425–34

Exogenously provided peptides fail to complex with intracellular class II molecules for presentation by antigen–presenting cells. Monji T, et al. **J Immunol** 1997 Apr 1;158(7):3155–64

Presentation on class II MHC molecules of endogenous lysozyme targeted to the endocytic pathway. Parra–López CA, et al. **J Immunol** 1997 Mar 15;158(6):2670–9

Single–chain MHC class II molecules induce T cell activation and apoptosis. Rhode PR, et al. **J Immunol** 1996 Dec 1; 157(11):4885–91

HLA–DM is present in one–fifth the amount of HLA–DR in the class II peptide–loading compartment where it associates with leupeptin–induced peptide (LIP)–HLA–DR complexes. Schafer PH, et al. **J Immunol** 1996 Dec 15;

157(12):5487–95
Cloned dendritic cells can present exogenous antigens on both MHC class I and class II molecules. Shen Z, et al. **J Immunol** 1997 Mar 15;158(6):2723–30
DM-mediated release of a naturally occurring invariant chain degradation intermediate from MHC class II molecules. Stebbins CC, et al. **J Immunol** 1996 Dec 1;157(11):4892–8
Invariant chain association with MHC class I: preference for HLA class I/beta 2-microglobulin heterodimers, specificity, and influence of the MHC peptide-binding groove. Vigna JL, et al. **J Immunol** 1996 Nov 15; 157(10):4503–10
A 17-Mer self-peptide of acetylcholine receptor binds to B cell MHC class II, activates helper T cells, and stimulates autoantibody production and electrophysiologic signs of myasthenia gravis. Yoshikawa H, et al. **J Immunol** 1997 Aug 1;159(3):1570–7
A sensitive fluorometric assay for quantitatively measuring specific peptide binding to HLA class I and class II molecules. Ottenhoff TH, et al. **J Immunol Methods** 1997 Jan 15;200(1–2):89–97
Superantigen and class II MHC molecules. Kim J. **J Korean Med Sci** 1995 Dec;10(6):393–8 (34 ref.)
Interferon-gamma reduces Ia+ dendritic cell traffic to the lung. Suda T, et al. **J Leukoc Biol** 1996 Oct;60(4):519–27
Differential regulation of cytokine-induced major histocompatibility complex class II expression and nitric oxide release in rat microglia and astrocytes by effectors of tyrosine kinase, protein kinase C, and cAMP. Hellendall RP, et al. **J Neuroimmunol** 1997 Apr;74(1–2):19–29
Protective effects of interferon-gamma in intraocular herpes simplex type 1 infection do not depend on major histocompatibility complex class I or class II expression. Geiger KD, et al. **J Neurovirol** 1995 Dec;1(5–6):405–9
IL-1 beta transduces different signals than IL-1 alpha leading to class II antigen expression on beta-insulinoma RIN-5AH cells through specific receptors. Vassiliadis S, et al. **J Recept Signal Transduct Res** 1997 Jan–May; 17(1–3):211–25
Apoptosis (programmed cell death) of transitional ameloblasts and MHC class II expression in rat incisors. Nishikawa S, et al. **Kaibogaku Zasshi** 1996 Dec; 71(6):597–603 (22 ref.)
The effect of growth factor on antigen and viability of corneal endothelial cells. Tchah H. **Korean J Ophthalmol** 1997 Jun;11(1):32–8
Cytokine modulation of antigen expression in human melanoma cell lines derived from primary and metastatic tumour tissues. Andalib AR, et al. **Melanoma Res** 1997 Feb; 7(1):32–42
Affinity and kinetics of the interactions between an alphabeta T-cell receptor and its superantigen and class II-MHC/peptide ligands. Khandekar SS, et al. **Mol Immunol** 1997 Apr;34(6):493–503
Peptide binding to mixed isotype Abeta(d)Ealpha(d) class II histocompatibility molecules. Moore JC, et al. **Mol Immunol** 1997 Feb;34(2):145–55
Intact proteins can bind to class II histocompatibility molecules with high affinity. Runnels HA, et al. **Mol Immunol** 1997 Apr;34(6):471–80
Quantitative analysis of peptides from myelin basic protein binding to the MHC class II protein, I-Au, which confers susceptibility to experimental allergic encephalomyelitis. Fugger L, et al. **Mol Med** 1996 Mar;2(2):181–8
Inflammatory stimuli induce accumulation of MHC class II complexes on dendritic cells [see comments] Cella M, et al. **Nature** 1997 Aug 21;388(6644):782–7. Comment in: Nature 1997 Aug 21;388(6644):724–5.
Developmental regulation of MHC class II transport in mouse dendritic cells [see comments] Pierre P, et al. **Nature** 1997 Aug 21;388(6644):787–92. Comment in: Nature 1997 Aug 21;388(6644):724–5.
Staphylococcal enterotoxins A, D, and E. Structure and function, including mechanism of T-cell superantigenicity. Svensson LA, et al. **Prep Biochem Biotechnol** 1997 May-Aug;27(2–3):111–41 (87 ref.)
Recombinant human granzyme A binds to two putative HLA-associated proteins and cleaves one of them. Beresford PJ, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):9285–90
GTP-bound forms of rab6 induce the redistribution of Golgi proteins into the endoplasmic reticulum. Martinez O, et al. **Proc Natl Acad Sci U S A** 1997 Mar 4;94(5):1828–33
Quantitative structure-activity relations by the MTD-method for binding of nonapeptides to the HLA-A2.1 molecule. Bologa C, et al. **Roum Arch Microbiol Immunol** 1995 Jan-Jun;54(1–2):3–14
Out damned CLIP! Out, I say! [comment] Roche PA. **Science** 1996 Oct 25;274(5287):526–7. Comment on: Science 1996 Oct 25;274(5287):618–20.
Enhanced dissociation of HLA-DR-bound peptides in the presence of HLA-DM [see comments] Weber DA, et al. **Science** 1996 Oct 25;274(5287):618–20. Comment in: Science 1996 Oct 25;274(5287):526–7.
Intracellular organelles involved in antigen processing and the binding of peptides to class II MHC molecules. Harding CV. **Semin Immunol** 1995 Dec;7(6):355–60 (77 ref.)

PHARMACOLOGY

Inhibition of experimental autoimmune myasthenia gravis by major histocompatibility complex class II competitor peptides results not only in a suppressed but also in an altered immune response. Wauben MH, et al. **Eur J Immunol** 1996 Dec;26(12):2866–75
A fragment of the major histocompatibility complex class II-associated p41 invariant chain inhibits cruzipain, the major cysteine proteinase from Trypanosoma cruzi. Bevec T, et al. **FEBS Lett** 1997 Jan 20;401(2–3):259–61
Differential T cell signaling induced by antagonist peptide-MHC complexes and the associated phenotypic responses. La Face DM, et al. **J Immunol** 1997 Mar 1; 158(5):2057–64
In vivo functions mediated by the p41 isoform of the MHC class II-associated invariant chain. Takaesu NT, et al. **J Immunol** 1997 Jan 1;158(1):187–99
ICAM-2 provides a costimulatory signal for T cell stimulation by allogeneic class II MHC. Carpenito C, et al. **Scand J Immunol** 1997 Mar;45(3):248–54

PHYSIOLOGY

Growth of the human filarial parasite Brugia malayi in mice lacking major histocompatibility complex class II antigen expression. Rajan TV, et al. **Acta Trop** 1996 May; 61(3):267–71
Up-regulation of class II major histocompatibility complex and intercellular adhesion molecule 1 expression on scleroderma fibroblasts and endothelial cells by interferon-gamma and tumor necrosis factor alpha in the early disease stage. Gruschwitz MS, et al. **Arthritis Rheum** 1997 Mar;40(3):540–50
Specificity of effector T lymphocytes in autologous graft-versus-host disease: role of the major histocompatibility complex class II invariant chain peptide. Hess AD, et al. **Blood** 1997 Mar 15;89(6):2203–9
HLA class II-mediated death is induced via Fas/Fas ligand interactions in human splenic B lymphocytes. Truman JP, et al. **Blood** 1997 Mar 15;89(6):1996–2007
A molecular basis for the association of HLA class II molecules with rheumatoid arthritis [editorial] Sinigaglia F, et al. **Clin Exp Rheumatol** 1995 Nov-Dec;13(6):683–5
The MHC class II-associated invariant chain: a molecule with multiple roles in MHC class II biosynthesis and antigen presentation to CD4+ T cells. Bertolino P, et al. **Crit Rev Immunol** 1996;16(4):359–79 (189 ref.)
Immunomodulatory function of major histocompatibility complex-derived peptides. Murphy B, et al. **Curr Opin Nephrol Hypertens** 1996 May;5(3):262–8 (58 ref.)
Late events in the intracellular sorting of major histocompatibility complex class II molecules are regulated by the 80–82 segment of the class II beta chain. Tan LJ, et al. **Eur J Immunol** 1997 Jun;27(6):1479–88
HLA class II signaling mediates cellular activation and programmed cell death. Truman JP, et al. **Exp Hematol** 1996 Oct;24(12):1409–15
Does AIDS emerge from a disequilibrium between two complementary groups of molecules that mimic MHC? Susal C, et al. **Immunol Today** 1996 Mar;17(3):114–9 (46 ref.)
Functional analysis of Mycoplasma arthritidis-derived mitogen interactions with class II molecules. Bernatchez C, et al. **Infect Immun** 1997 Jun;65(6):2000–5
Comparison of thymocyte development in normal and invariant chain-deficient mice provides evidence that maturation-related changes in TCR and co-receptor levels play a critical role in cell fate. Huang LY, et al. **Int Immunol** 1996 Sep;8(9):1429–40
Effects of transgenic mixed-haplotype MHC class II molecules A alpha d A beta z on autoimmune disease in New Zealand mice. Nishimura H, et al. **Int Immunol** 1996 Jun;8(6):967–76
Both invariant chain isoforms Ii31 and Ii41 promote class II antigen presentation. Serwe M, et al. **Int Immunol** 1997 Jul;9(7):983–91
Degradation of mouse invariant chain: roles of cathepsins S and D and the influence of major histocompatibility complex polymorphism. Villadangos JA, et al. **J Exp Med** 1997 Aug 18;186(4):549–60
Related leucine-based cytoplasmic targeting signals in invariant chain and major histocompatibility complex class II molecules control endocytic presentation of distinct determinants in a single protein. Zhong G, et al. **J Exp Med** 1997 Feb 3;185(3):429–38
TCR-mediated adhesion of T cell hybridomas to planar bilayers containing purified MHC class II/peptide complexes and receptor shedding during detachment. Dustin ML, et al. **J Immunol** 1996 Sep 1;157(5):2014–21
A negatively charged anchor residue promotes high affinity binding to the MHC class II molecule I-Ak. Nelson CA, et al. **J Immunol** 1996 Jul 15;157(2):755–62
Induction of antigen-presenting capacity in tumor cells upon infection with non-replicating recombinant vaccinia virus encoding murine MHC class II and costimulatory molecules. Marti WR, et al. **J Immunol Methods** 1997 Jan 15;200(1–2):191–8
Functional class II antigen presentation pathway in metastatic melanoma cell lines [comment] Akporiaye ET, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):398. Comment on: J Immunother Emphasis Tumor Immunol 1996 Nov;19(6):387–97.
MHC class II-mediated antigen presentation by melanoma cells [see comments] Brady MS, et al. **J Immunother Emphasis Tumor Immunol** 1996 Nov; 19(6):387–97. Comment in: J Immunother Emphasis Tumor Immunol 1996 Nov;19(6):398.
The function of invariant chain in class II-restricted antigen presentation. Ceman S, et al. **Semin Immunol** 1995 Dec; 7(6):373–87 (88 ref.)

THERAPEUTIC USE

Protective major histocompatibility complex genes and the role of interleukin-4 in collagen-induced arthritis. Hesse M, et al. **Eur J Immunol** 1996 Dec;26(12):3234–7

ULTRASTRUCTURE

Structure of HLA molecules and immunosuppressive effects of HLA derived peptides. Krensky AM, et al. **Int Rev Immunol** 1996;13(3):173–85 (56 ref.)

HISTOCOMPATIBILITY ANTIGENS, MINOR see **MINOR HISTOCOMPATIBILITY ANTIGENS**

HISTOCOMPATIBILITY COMPLEX see **MAJOR HISTOCOMPATIBILITY COMPLEX**

HISTOCOMPATIBILITY LOCI, MINOR see **MINOR HISTOCOMPATIBILITY LOCI**

HISTOCOMPATIBILITY TESTING

Current approaches to histocompatibility testing. A short overview. Bossuyt X, et al. **Acta Clin Belg** 1997;52(2):92–8 (26 ref.)
Poorer graft survival in African-American transplant recipients cannot be explained by HLA mismatching. Chertow GM, et al. **Adv Ren Replace Ther** 1997 Jan; 4(1):40–5
HLA typing of a family with systemic lupus erythematosus [letter] Kagawa H, et al. **Autoimmunity** 1996;24(4):265–6
Computer program to predict likelihood of finding and HLA-matched donor: methodology, validation, and application. Mori M, et al. **Biol Blood Marrow Transplant** 1996 Oct;2(3):134–44
Barriers to bone marrow transplantation for sickle cell anemia. Walters MC, et al. **Biol Blood Marrow Transplant** 1996 May;2(2):100–4
Transplantation of marrow cells from unrelated donors for treatment of high-risk acute leukemia: the effect of leukemic burden, donor HLA-matching, and marrow cell dose. Sierra J, et al. **Blood** 1997 Jun 1;89(11):4226–35
Molecular histocompatibility typing in unrelated donor bone marrow transplantation. Madrigal JA, et al. **Blood Rev** 1997 Jun;11(2):105–17 (101 ref.)
European results of matched unrelated donor bone marrow transplantation for chronic myeloid leukemia. Impact of HLA class II matching. Chronic Leukemia Working Party of the European Group for Blood and Marrow Transplantation. Devergie A, et al. **Bone Marrow Transplant** 1997 Jul;20(1):11–9
Allogeneic bone marrow transplantation with T cell-depleted partially matched related donors for advanced acute lymphoblastic leukemia in children and adults: a comparative matched cohort study. Fleming DR, et al. **Bone Marrow Transplant** 1996 Jun;17(6):917–22
Risk factors for developing EBV-related B cell lymphoproliferative disorders (BLPD) after non-HLA-identical BMT in children. Gerritsen EJ, et al. **Bone Marrow Transplant** 1996 Aug;18(2):377–82
A generalized HLA prediction model for related donor matches. Kaufman R. **Bone Marrow Transplant** 1996 Jun; 17(6):1013–20
Acute rejection of marrow grafts in patients transplanted from a partially mismatched related donor: clinical and immunologic characteristics. Lamb LS Jr, et al. **Bone Marrow Transplant** 1996 Jun;17(6):1021–7
Successful engraftment of allogeneic CD34-enriched marrow cell transplantation from HLA-mismatched parental donors. Yabe H, et al. **Bone Marrow Transplant** 1996 Jun; 17(6):985–91
Non-HLA antigens and HLA-DR matching in corneal transplantation. Nicholls SM. **Br J Ophthalmol** 1996 Sep; 80(9):780–2
False-negative serological HLA-B27 typing results may be due to altered antigenic epitopes and can be detected by polymerase chain reaction. Kirveskari J, et al. **Br J Rheumatol** 1997 Feb;36(2):185–9
HLA-DR2 antigen linkage in patients with apical hypertrophic cardiomyopathy in Japan. Kishimoto C, et al. **Cardiology** 1996 Nov-Dec;87(6):488–91
Bone marrow transplantation with HLA partially matched related donors. Chen PM, et al. **Chung Hua I Hsueh Tsa Chih (Taipei)** 1996 Dec; 58(6):385–91
HLA matching. Hata Y, et al. **Clin Transpl** 1996;:381–96
Sensitization and crossmatch. Takemoto S. **Clin Transpl** 1995; :417–32
Interaction between panel reactive antibodies, auto- and cold reactive antibodies, and a positive B cell cross-match in renal and cardiac allograft survival. Creemers P, et al. **Clin Transplant** 1997 Apr;11(2):134–8
The feasibility of HLA matching for lung transplantation. McGee C, et al. **Clin Transplant** 1996 Dec;10(6 Pt 1):564–7
Evaluation of the transplant recipient and donor: molecular approach to tissue typing, flow cytometry and alternative approaches to distributing organs. Takemoto SK, et al. **Curr Opin Nephrol Hypertens** 1997 May;6(3):299–303 (39

ref.)
HLA types in women with cervical human papillomavirus (HPV) lesions prospectively followed up for 10 years. Syrjänen K, et al. **Cytopathology** 1996 Apr;7(2):99–107
Flow cytometry cross-match. Brando B, et al. **Eur J Histochem** 1996;40 Suppl 1:53–62 (26 ref.)
Immunogenetic factors in HPV-associated cervical cancer: influence on disease progression. Duggan-Keen MF, et al. **Eur J Immunogenet** 1996 Aug;23(4):275–84
Serologically defined lymphocyte alloantigens in Spanish sheep. Garrido JJ, et al. **Exp Clin Immunogenet** 1995; 12(4):268–71
Effect of major histocompatibility complex matching on the development of tolerance to primarily vascularized renal allografts: a study in miniature swine. Gianello PR, et al. **Hum Immunol** 1996 Sep 15;50(1):1–10 (51 ref.)
A computerized method to predict the discriminatory properties for class II sequencing based typing. Rozemuller EH, et al. **Hum Immunol** 1996 Mar;46(1):27–34
Genetic identification of children of the disappeared in Argentina. Penchaszadeh VB. **J Am Med Womens Assoc** 1997 Winter;52(1):16–21, 27 (39 ref.)
Crossmatching considerations in renal transplantation [see comments] Kiran AL, et al. **J Assoc Physicians India** 1996 Aug;44(8):521–4. Comment in: J Assoc Physicians India 1996 Aug;44(8):517–8.
The cross match test--even more important than tissue typing in renal transplantation [editorial; comment] Sud K, et al. **J Assoc Physicians India** 1996 Aug;44(8):517–8. Comment on: J Assoc Physicians India 1996 Aug;44(8):521–4.
Influence of human leukocyte antigen matching on long-term outcome after lung transplantation. Wisser W, et al. **J Heart Lung Transplant** 1996 Dec;15(12):1209–16
DNA-based HLA typing for cord blood stem cell transplantation. Trachtenberg EA, et al. **J Hematother** 1996 Jun;5(3):295–300 (41 ref.)
The studies of HLA class II (HLA-DR) system by PCR-SSO typing and the relationship with serological method. Charoenwongse P, et al. **J Med Assoc Thai** 1996 Dec;79 Suppl 1:S22–32
HLA typing in a large family with multiple cases of different autoimmune diseases. Sels F, et al. **J Rheumatol** 1997 May; 24(5):856–9
Association between specific HLA combinations and probability of kidney allograft loss: the taboo concept. Doxiadis II, et al. **Lancet** 1996 Sep 28;348(9031):850–3
Usefulness of frequency analysis of cytotoxic T-lymphocytes precursors (CTL-p) for selection of HLA matched unrelated marrow donors. Busca A, et al. **Panminerva Med** 1995 Sep;37(3):168–70
Definition of HLA-DQ as a transplantation antigen. Petersdorf EW, et al. **Proc Natl Acad Sci U S A** 1996 Dec 24;93(26):15358–63
Comparison of HLA-A antigen typing by serology with two polymerase chain reaction based DNA typing methods: implications for proficiency testing. Bozón MV, et al. **Tissue Antigens** 1996 Jun;47(6):512–8
Characterization of HLA-A*02 subtypes in the Sardinian population. Carcassi C, et al. **Tissue Antigens** 1995 Nov; 46(5):391–3
Human immunogenetics and histocompatibility testing, 1996 [editorial; comment] Dupont B. **Tissue Antigens** 1996 Jun; 47(6):457–9. Comment on: Tissue Antigens 1996 Jun;47(6):460–3. Comment on: Tissue Antigens 1996 Jun;47(6):464–71.
Development of registries of HLA-typed volunteer marrow donors [editorial; comment] Hansen JA. **Tissue Antigens** 1996 Jun;47(6):460–3. Comment on: Tissue Antigens 1996 Jun;47(6):457–9.
Typing the HLA-B locus by a nested primer approach and oligonucleotide hybridization. Inamdar A, et al. **Tissue Antigens** 1996 Jun;47(6):519–29
HLA class II and HLA-B27 oligotyping in two Siberian native population groups. Krylov M, et al. **Tissue Antigens** 1995 Nov;46(5):382–6
Large-scale DRB and DQB1 oligonucleotide typing for the NMDP registry: progress report from year 2. Ng J, et al. **Tissue Antigens** 1996 Jan;47(1):21–6
Molecular and serological characterization of HLA-B71 in association with different class I haplotypes or in different ethnic groups. Rodriguez SG, et al. **Tissue Antigens** 1996 Jan;47(1):58–62
Development of PCR-SSOP for HLA-A typing of bone marrow registry donors. Williams F, et al. **Tissue Antigens** 1997 Jan;49(1):61–6
Consensus Conference on unrelated donor BMT, 29-30 October 1996: its use in leukaemias and allied disorders. Franklin IM. **Transfus Med** 1997 Mar;7(1):63–4 (0 ref.)
Evaluating the significance of HLA class II genotype matching in living-related liver transplantation. Yamamoto E, et al. **Transpl Immunol** 1996 Jun;4(2):144–50
An adverse matching effect for the HLA-B locus in corneal transplantation. Hill JC, et al. **Transpl Int** 1997;10(2):145–9
HLA-DR matching reduces rejection rate in heart transplantation. Leivestad T, et al. **Transpl Int** 1996;9 Suppl 1:S230–3
The significant effect of HLA-DRB1 matching on acute rejection in kidney transplants. Nojima M, et al. **Transpl Int** 1996;9 Suppl 1:S11–5
Flow cytometric crossmatching in renal transplantation--outcome after five years. Talbot D, et al. **Transpl Int** 1996;9 Suppl 1:S364–7
Evaluation of the permissible mismatch concept. Wujciak T, et al. **Transpl Int** 1996;9 Suppl 1:S8–10
Comparison between HLA class I PCR-ARMS and serologic typing in cadaveric kidney transplantation. Adorno D, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1423–5
Living unrelated kidney transplantation: a 12-year single center experience. Alfani D, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):191–4
Pancreas after kidney transplantation: HLA mismatch does not preclude success. Basadonna GP, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):667
Lymphocytotoxic antibody responses to one prospective HLA-DR typed blood transfusion in naive patients awaiting renal transplantation. The Groupe Coopératif de Transplantation de l'Ile de France. Busson M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1415–6
Living donor kidney transplants: superior success rates despite histoincompatibilities. Cecka JM, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):203
Relevance of positive lymphocytotoxic crossmatch and immunosuppressive regimens in the outcome of liver transplants. Charco R, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):461–2
Molecular level HLA mismatches in UNOS "zero-mismatched" kidney transplants. Cook DJ, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1401–2
Repeated HLA mismatches in cadaveric renal transplantation: is it safe to transplant? Doxiadis II, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1408–9
Successful combined liver and kidney transplantation in children despite HLA mismatching. al-Edreesi M, et al. **Transplant Proc** 1996 Dec;28(6):3621–3
Microsatellites in the HLA region: potential applications in bone marrow transplantation. Foissac A, et al. **Transplant Proc** 1997 Aug;29(5):2374–5
Significance of HLA matching in renal transplantation from living donors. Górski A. **Transplant Proc** 1996 Dec; 28(6):3578
Influence of donor/recipient phenotype and degree of HLA mismatch on the development of transplant-associated coronary artery disease in heart transplant patients. Hornick P, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1420–1
Improved graft survival in 100 retransplant recipients following AHG-negative crossmatching. Kerman RH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1451–3
Changes of antigenicity and loss of immunogenicity in long-standing class I MHC disparate pancreas allografts. Klempnauer J, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1151
Cadaveric renal transplantation against a positive historic crossmatch under tacrolimus immunosuppression: long-term follow-up. Lyne JC, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):312
A low incidence of grade II to IV acute GVHD, but high mortality from infection using HLA-A, -B, and -DR-identical unrelated donors and immunosuppression with ATG, cyclosporine, and methotrexate. Mattsson J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):735–6
Effect of HLA compatibility on liver transplantation: is it a predictive factor of postoperative outcome? Meyer C, et al. **Transplant Proc** 1997 Aug;29(5):2332–4
Clinical implications of DNA typing in organ transplantation. The Collaborative Transplant Study. Opelz G, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1524–7
The impact of race and HLA matching on long-term survival following cardiac transplantation. Park MH, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1460–3
HLA-DRB1 typing does not prolong cold ischemia time and affects outcome in cadaver kidney transplantation. Poli F, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1397–400
Effect of HLA on early follow-up in heart transplants. Rementeria C, et al. **Transplant Proc** 1997 Feb-Mar; 29(1-2):1469
Kidney transplantation: generic HLA DR compatibility reduces acute rejection episodes. Reviron D, et al. **Transplant Proc** 1996 Oct;28(5):2812–3
Importance of HLA-DRB1 molecular matching based on three-dimensional structure in cadaveric renal transplantation: a trial of new criteria for recipient and donor selection. Sada M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1440–2
Prospective HLA matching is feasible in thoracic organ transplantation. Smith J, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1467–8
Presensitization and HLA match influence the predictive power of pretransplant serum IgA and IgA-anti-Fab autoantibodies in kidney graft recipients. Süsal C, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1444–6
Benefits of HLA-CREG matching for sensitized recipients as illustrated in kidney regrafts. Takemoto SK, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1417
SEOPF high-grade HLA match algorithm: effective kidney sharing using ROP trays with HLA matching for highly sensitized patients. Tardif GN, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1406–7
Optimal control of IFN-gamma and TNF-alpha by IL-10 produced in response to one HLA-DR mismatch during the primary mixed lymphocyte reaction. Toungouz M, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1422
Matchability as an important factor for kidney allocation according to the HLA match. Wujciak T, et al. **Transplant Proc** 1997 Feb-Mar;29(1-2):1403–5
Cross-matching in liver transplantation. Donaldson PT, et al. **Transplantation** 1997 Mar 27;63(6):789–94 (65 ref.)
Determination of HLA-A,B residue mismatch acceptability for kidneys transplanted into highly sensitized patients: a report of a collaborative study conducted during the 12th International Histocompatibility Workshop. Duquesnoy RJ, et al. **Transplantation** 1997 Jun 27;63(12):1743–51
A positive crossmatch in liver transplantation--no effect or inappropriate analysis? A prospective study. Hathaway M, et al. **Transplantation** 1997 Jul 15;64(1):54–9
The high grade match kidney sharing algorithm of the South-Eastern Organ Procurement Foundation (SEOPF): altering recipient demographics through improved matching. McCune TR, et al. **Transplantation** 1997 Sep 27; 64(6):860–4
Association between HLA-DPB1 matching and 1-year rejection-free graft survival in high-risk corneal transplantation. Munkhbat B, et al. **Transplantation** 1997 Apr 15;63(7):1011–6
Analysis of HLA-DR split-specificity matching in cadaver kidney transplantation: a report of the Collaborative Transplant Study. Opelz G, et al. **Transplantation** 1997 Jan 15;63(1):57–9
Accelerated acute rejection of an apparent A2 renal allograft in an O recipient: report of a case with flow cytometric analysis. Pins MR, et al. **Transplantation** 1997 Apr 15; 63(7):984–8
Flow cytometry cross-match: a method for predicting graft rejection. Utzig MJ, et al. **Transplantation** 1997 Feb 27; 63(4):551–4
Donor helper T-cell frequencies as predictors of acute graft-versus-host disease in bone marrow transplantation between HLA-identical siblings. Weston LE, et al. **Transplantation** 1997 Sep 27;64(6):836–41
[Analysis of HLA class I molecules using isoelectric focusing. Its application in selection of bone marrow donors] Kořínková P, et al. **Cas Lek Cesk** 1997 May 7;136(9):279–81 (Eng. Abstr.) **(Cze)**
[Which cross-match before organ transplantation in 1997?] Raffoux C, et al. **Presse Med** 1997 May 31;26(18):867–71 (Eng. Abstr.) **(Fre)**
[HLA typing in the Japanese Bone Marrow Program] Akaza T. **Rinsho Byori** 1997 Feb;45(2):157–60 (0 ref.) (Eng. Abstr.) **(Jpn)**
[The Nobel Prize in physiology and medicine 1996. What are we going to do with tissue typing?] Thorsby E. **Tidsskr Nor Laegeforen** 1996 Dec 10;116(30):3588–90 **(Nor)**
[Serological and molecular HLA typing in Andalusian patients with Behçet's disease. Genetic-clinical correlations (letter; comment)] Román JA, et al. **Med Clin (Barc)** 1997 Mar 15;108(10):397–8. Comment on: Med Clin (Barc) 1996 Feb 3;106(4):121–5. **(Spa)**

ECONOMICS

Clinical and economic impact of flow cytometry crossmatching in primary cadaveric kidney and simultaneous pancreas-kidney transplant recipients. Pelletier RP, et al. **Transplantation** 1997 Jun 15; 63(11):1639–45

INSTRUMENTATION

[Computer-assisted evaluation of a "medium resolution" HLA-DRB oligotyping of bone marrow donors] Helmberg W, et al. **Beitr Infusionsther Transfusionsmed** 1996;33:66–71 (Eng. Abstr.) **(Ger)**

METHODS

The impact of T-cell depletion on the effects of HLA DR beta 1 and DQ beta allele matching in HLA serologically identical unrelated donor bone marrow transplantation. Gajewski J, et al. **Biol Blood Marrow Transplant** 1997 Jun; 3(2):76–82
A single [3H]thymidine-based limiting dilution analysis to determine HTLp and CTLp frequencies for bone marrow donor selection. van der Meer A, et al. **Bone Marrow Transplant** 1997 Jul;20(2):149–55
Application of an HLA-B PCR-SSOP typing method to a bone marrow donor registry. Williams F, et al. **Bone Marrow Transplant** 1997 Feb;19(3):205–8
Large-scale DNA typing for human platelet alloantigens by PCR-PHFA (preferential homoduplex formation assay). Fujiwara K, et al. **Br J Haematol** 1996 Oct;95(1):198–203
HLA amino acid residue matching. Takemoto SK. **Clin Transpl** 1996;:397–425
Flow cytometry crossmatching and primary cadaver kidney graft outcome: relevance of T and B cell targets, historic sera and autologous controls. LeFor WM, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):601–6
Utility of DRB1 subtyping: a case report. Lower FE, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):598–600
SEOPF high-grade match algorithm: the effect of HLA matching with ROP trays in transplanting highly sensitized patients. Southern Organ Procurement Foundation. Tardif GN, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):594–7
CREG matching for first cadaveric kidney transplants (TNX) performed by SEOPF centers between October 1987 and September 1995. Southeastern Organ Procurement

Foundation. Thompson JS, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):586–93

HLA–DOB1 "low–resolution' typing by PCR amplification with sequence–specific primers (PCR–SSP). Aldener–Cannavá A, et al. **Eur J Immunogenet** 1994 Dec; 21(6):447–55

HLA class II typing in a microtitre plate format using digoxigenin–labelled amplified DNA and biotin–labelled oligonucleotide probes. Nevinny–Stickel C, et al. **Eur J Immunogenet** 1993 Oct;20(5):419–27

Rapid DNA crossmatch analysis of HLA class II genotypic polymorphisms by temperature gradient gel electrophoresis in unrelated bone marrow donor selection. Uhrberg M, et al. **Eur J Immunogenet** 1994 Oct;21(5):313–24

Report from the HLA class II typing by PCR–SSP Multicentre Study. Zetterquist H, et al. **Eur J Immunogenet** 1997 Jun;24(3):191–9

HLA–DRB1*04 high resolution typing. Bouwens–Rombouts AG, et al. **Exp Clin Immunogenet** 1996;13(2):84–91

Investigation of specimen mislabelling in paraffin–embedded tissue using a rapid, allele–specific, PCR–based HLA class II typing method. Bateman AC, et al. **Histopathology** 1996 Feb;28(2):169–74

Further characterization of HLA homozygous typing cell lines at the LMP2 polymorphic codon 60 by an ARMS typing method. Hopkins LM, et al. **Hum Immunol** 1997 Apr 1;53(2):183–7

Nested polymerase chain reaction–based HLA class II typing for the unique identification of formalin–fixed and paraffin–embedded tissue. Bateman AC, et al. **J Pathol** 1997 Feb;181(2):228–34

Prognostic genotyping and matching in renal transplantation. Bradley BA. **J R Soc Med** 1996;89 Suppl 29:16

HLA testing: the state of the art of genomic methods in 1996 [editorial] Mytilineos J. **Nephrol Dial Transplant** 1996 Nov; 11(11):2129–34 (7 ref.)

High resolution HLA–C typing by PCR–SSP: identification of allelic frequencies and linkage disequilibria in 604 unrelated random UK Caucasoids and a comparison with serology [corrected and republished article originally printed in Tissue Antigens 1996 Dec;48(6):680–91] Bunce M, et al. **Tissue Antigens** 1997 Jul;50(1):100–11

Phototyping: comprehensive DNA typing for HLA–A, B, C, DRB1, DRB3, DRB4, DRB5 & DQB1 by PCR with 144 primer mixes utilizing sequence–specific primers (PCR–SSP). Bunce M, et al. **Tissue Antigens** 1995 Nov; 46(5):355–67

Dimorphic primers derived from intron 1 for use in the molecular typing of HLA–B alleles. Cereb N, et al. **Tissue Antigens** 1997 Jul;50(1):74–6

HLA–A, –B, –C, –DR, –DQ typing in a population group of Senegal: distribution of HLA antigens and HLA–DRB1*13 and DRB1*11 subtyping by PCR using sequence–specific primers (PCR–SSP). Dieye A, et al. **Tissue Antigens** 1996 Mar;47(3):194–9

"Phototyping" for HLA: the beginning of the end of HLA typing as we know it [editorial] Dupont B. **Tissue Antigens** 1995 Nov;46(5):353–4

HLA–B typing by allele separation followed by direct sequencing. Eberle M, et al. **Tissue Antigens** 1997 Apr; 49(4):365–75

Complete allele typing of DR2–DRB1 by a combination of PCR–RFLF and PCR–SSP. Granja CB, et al. **Tissue Antigens** 1996 Jan;47(1):80–4

Acquisition and use of DNA–based HLA typing data in bone marrow registries. Hurley CK. **Tissue Antigens** 1997 Apr; 49(4):323–8 (18 ref.)

A comprehensive PCR–SSP typing system for identification of HLA–A locus alleles. Krausa P, et al. **Tissue Antigens** 1996 Mar;47(3):237–44

Sequencing–based typing of HLA–A locus using mRNA and a single locus–specific PCR followed by cycle–sequencing with AmpliTaq DNA polymerase, FS. Norgaard L, et al. **Tissue Antigens** 1997 May;49(5):455–65

Detection of the DRB4 null gene, DRB4*0101102N, by PCR–SSP and its distinction from other DRB4 genes. O'Neill CM, et al. **Tissue Antigens** 1996 Mar;47(3):245–8

Sequenase sequence profiles used for HLA–DPB1 sequencing–based typing. Rozemuller EH, et al. **Tissue Antigens** 1996 Jan;47(1):72–9

Comparison of DRB sequence–based typing using different strategies. Voorter CE, et al. **Tissue Antigens** 1997 May; 49(5):471–6

Interleukin–2 activated lymphocytes show improved sensitivity for class 1 HLA typing. Hirose M, et al. **Tokushima J Exp Med** 1996 Dec;43(3–4):87–91

Acid treatment of lymphocytes selectively decreases the expression of HLA class I antigens: a method to confirm that a positive clinical crossmatch test was due to class I antibodies. Sumitran–Karuppan S, et al. **Transpl Immunol** 1996 Jun;4(2):163–8

A single center evaluation of the Collaborative Transplant Study (CTS) DNA project. Emonds MP, et al. **Transpl Int** 1996;9(5):468–75

HLA class I A and B typing in the clinical laboratory using DNA–based techniques. Hemmatpour SK, et al. **Transpl Int** 1996;9 Suppl 1:S356–63

B–cell flow–cytometry crossmatch: influence in renal transplantation. De Carvalho Bittencourt M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1456–7

Crossmatching for renal transplantation––a 5–year review of different cytotoxic and flow cytometric methods showing importance of the IgG anti–B–lymphocyte FACS crossmatch. Horsburgh T, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1458–9

Flow cytometry: is it the ultimate crossmatch technique in living donors? Klein T, et al. **Transplant Proc** 1997 Sep; 29(6):2647–8

Clinical implications of flow cytometry B cell crossmatching in renal transplantation. Kotb M, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1430–2

HLA–DR matching defined by DNA typing in heart transplantation. Mascaretti L, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1464–6

Microchimerism in renal transplant recipients correlates with better HLA–DRB1 matched status. Matsushita K, et al. **Transplant Proc** 1997 Jun;29(4):2290–3

Crossmatch testing in renal transplantation: comparative evaluation between an innovatory ELISA technique and two different standardised CDC methods. Nanni–Costa A, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1449–50

Importance of methodology in the flow cytometric crossmatch: a multicentre study. Shenton BK, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1454–5

Comparative study of two methods of HLA–DR typing: serology and PCR/Dot Blot Reverse. Suberbielle–Boissel C, et al. **Transplant Proc** 1997 Aug;29(5):2335–6

CREG matching for first kidney transplants performed by SEOPF Centers between October 1987 and September 1995: an analysis of outcome and prospective benefit. Southeastern Procurement Foundation. Thompson J, et al. **Transplant Proc** 1997 Feb–Mar;29(1–2):1435–8

Clinical and economic impact of flow cytometry crossmatching in primary cadaveric kidney and simultaneous pancreas–kidney transplant recipients. Pelletier RP, et al. **Transplantation** 1997 Jun 15; 63(11):1639–45

Multicenter evaluation of the flow cytometry T–cell crossmatch: results from the American Society of Histocompatibility and Immunogenetics–College of American Pathologists proficiency testing program. Scornik JC, et al. **Transplantation** 1997 May 27; 63(10):1440–5

Strategies for determining HLA compatibility in related donor bone marrow transplantation. Zachary AA, et al. **Transplantation** 1997 Sep 27;64(6):828–35

[Use of flow cytometry for HLA B27 phenotyping: study of a HLA B7/HLA B27 double marker technique] Ulrich G. **Allerg Immunol (Paris)** 1997 Jan;29(1):11–4 (Eng. Abstr.) **(Fre)**

[A simplified method of HLA–DR typing with the PCR method using the genomic DNA extracted from blood–absorbed filter] Kabayama H. **Nihon Rinsho Meneki Gakkai Kaishi** 1996 Jun;19(3):201–9 (Eng. Abstr.) **(Jpn)**

[Progress of DNA based HLA typing methods] Ishikawa Y, et al. **Nippon Rinsho** 1996 Dec;54(12):3398–407 (20 ref.) (Eng. Abstr.) **(Jpn)**

STANDARDS

Repeated HLA mismatches and second renal graft survival in centers of the South–Eastern Organ Procurement Foundation. Heise ER, et al. **Clin Transplant** 1996 Dec;10(6 Pt 2):579–85

Disproportionate HLA matching may contribute to racial disparity in patient survival following cardiac transplantation. Park MH, et al. **Clin Transplant** 1996 Dec; 10(6 Pt 2):625–8

Quality control for DNA contamination in laboratories using PCR–based class II HLA typing methods. McCormack JM, et al. **Hum Immunol** 1997 Apr 15;54(1):82–8

STATISTICS & NUMERICAL DATA

Validation of large data sets, an essential prerequisite for data analysis: an analytical survey of the Bone Marrow Donors Worldwide. Schipper RF, et al. **Tissue Antigens** 1996 Mar; 47(3):169–78 (10 ref.)

TRENDS

A future for HLA matching in clinical transplantation. Dyer PA, et al. **Eur J Immunogenet** 1997 Feb;24(1):17–28 (54 ref.)

Immediate–spin crossmatch in routine use: a growing trend in compatibility testing for red cell transfusion therapy [letter] Alexander D, et al. **Vox Sang** 1996;70(1):48–9

VETERINARY

Histocompatibility testing of dog families with highly polymorphic microsatellite markers. Wagner JL, et al. **Transplantation** 1996 Sep 27;62(6):876–7

HISTOCYTOCHEMISTRY

Comparison of isotopic and immunohistochemical methods of studying epithelial cell proliferation in hamster tongue. Warnakulasuriya KA, et al. **Cell Prolif** 1993 Nov; 26(6):545–55

The role of cytology, cytochemistry, immunophenotyping and cytogenetic analysis in the diagnosis of haematological neoplasms. General Haematology Task Force of the BCSH. **Clin Lab Haematol** 1996 Dec;18(4):231–6

Proceedings of the XXVII National Congress of the Italian Society of Histochemistry. Cagliari, 5–8 June 1997. Abstracts. **Eur J Histochem** 1997;41 Suppl 1:5–78

Histochemical properties of upper airway muscles: comparison of dilator and nondilator muscles. Bracher A, et al. **Eur Respir J** 1997 May;10(5):990–3

Histochemical observations of alkaline phosphatase activity of Echinococcus multilocularis during in vivo development in golden hamsters, an alternative definitive host. Arsac C, et al. **Exp Anim** 1997 Jan;46(1):25–30

Annual symposium of the Czech Society of Histochemistry and Cytochemistry, 1994, on the theme Progress in Basic, Applied and Diagnostic Histochemistry. Olomouc, Czech Republic, 4–7 September 1994. Abstracts. **Histochem J** 1996 Apr;28(4):299–323

Histochemical study of the epithelial mucins in the gizzard of the chick embryo. Sgambati E, et al. **Ital J Anat Embryol** 1996 Jul–Sep;101(3):173–85

A fluorogenic substrate for beta–glucuronidase: applications in fluorometric, polyacrylamide gel and histochemical assays. Zhou M, et al. **J Biochem Biophys Methods** 1996 Dec 30;33(3):197–205

Localization of NADPH–diaphorase in the rat pineal gland: an experimental enzyme histochemical study. López–Figueroa MO, et al. **J Pineal Res** 1996 Apr; 20(3):157–63

Enzyme histochemistry of cutaneous sensory nerve formations. Dubový P. **Microsc Res Tech** 1996 Jul 1; 34(4):334–50 (110 ref.)

Lectin histochemistry of rat placental tissues. Bulmer JN, et al. **Placenta** 1996 Sep;17(7):513–20

Decrease in cytochrome c oxidase activity detected cytochemically in the placental trophoblast of patients with pre–eclampsia. Matsubara S, et al. **Placenta** 1997 May; 18(4):255–9

HISTORY

Exploratory experimentation and the role of histochemical techniques in the work of Jean Brachet, 1938–1952. Burian RM. **Pubbl Stn Zool Napoli II** 1997;19(1):27–45

INSTRUMENTATION

Construction and performance of a photobleaching recovery apparatus with microsecond time resolution. Kao HP, et al. **Biophys Chem** 1996 Mar 7;59(1–2):203–10

Injection of dye into neurones in rat and human post–mortem brain, in combination with acetylcholinesterase histochemistry: permanent preparations. Loopuijt LD, et al. **J Neurosci Methods** 1997 Aug 22;75(2):161–9

High–speed voltage–sensitive dye imaging of an in vivo insect brain. Okada K, et al. **Neurosci Lett** 1996 May 17; 209(3):197–200

METHODS

Ultrastructural localization of histamine in human basophils and mast cells; changes associated with anaphylactic degranulation and recovery demonstrated with a diamine oxidase–gold probe. Dvorak AM. **Allergy** 1997;52(34 Suppl):14–24 (30 ref.)

Contribution of quantitative lectin histochemistry to characterizing well–differentiated, dedifferentiated and poorly differentiated liposarcomas. Goldschmidt D, et al. **Anal Quant Cytol Histol** 1997 Jun;19(3):215–26

Presence of cerium–cytochemical reactions of glomerular phosphatases of normal gerbil Meriones crassus: an ultrastructural localization study. Safer AM, et al. **Anat Histol Embryol** 1997 Mar;26(1):29–34

Classical and contemporary histochemical approaches for evaluating central nervous system microanatomy. Appel NM. **Ann N Y Acad Sci** 1997 May 30;820:14–28 (49 ref.)

Distinguishing lipid pseudomembranes from larval cestodes by morphologic and histochemical means. Marty AM, et al. **Arch Pathol Lab Med** 1997 Aug;121(8):900–7

A study of apoptosis in brain tumors by in situ end–labeling method. Patsouris E, et al. **Clin Neuropathol** 1996 Nov–Dec;15(6):337–41

Histochemical study on hemangiomas in childhood. Stefanova P, et al. **Folia Med (Plovdiv)** 1996;38(1):69–73

Catalytic enzyme histochemistry and biochemical analysis of dihydroorotate dehydrogenase/oxidase and succinate dehydrogenase in mammalian tissues, cells and mitochondria. Löffler M, et al. **Histochem Cell Biol** 1996 Feb;105(2):119–28

Quantitative assessment of primary cerium reaction product formed by glucose–6–phosphatase activity in a male rat liver: an image analysis study. Oehring H, et al. **Histochem Cell Biol** 1996 Oct;106(4):431–6

Histochemical staining of cadmium with 2–(8–quinolylazo)–4,5–diphenylimidazole. Sumi Y, et al. **Histochem Cell Biol** 1996 Aug;106(2):223–7

Cytochemical detection systems for in situ hybridization, and the combination with immunocytochemistry, 'who is still afraid of red, green and blue?' Speel EJ, et al. **Histochem J** 1995 Nov;27(11):833–58 (212 ref.)

In situ heterogeneity of peroxisomal oxidase activities: an update. Van den Munckhof RJ. **Histochem J** 1996 Jun; 28(6):401–29 (348 ref.)

In situ measurement of glutamate concentrations in the periportal, intermediate, and pericentral zones of rat liver. Geerts WJ, et al. **J Histochem Cytochem** 1997 Sep; 45(9):1217–29

Classical morphology, esterase cytochemistry, and interphase

cytogenetics of peripheral blood and bone marrow smears. Jacobsson B, et al. **J Histochem Cytochem** 1996 Nov; 44(11):1303–9

Distinct differences in partial oxygen pressure at micrometer ranges in the rat hippocampal region. Andreasen A, et al. **J Neurosci Methods** 1997 Mar;72(1):15–21

Potential misconceptions in dopamine transporter assays arising from the binding of [125I]RTI–121 to filters: effect of ions and cocaine. Chen NH, et al. **J Neurosci Methods** 1997 Aug 22;75(2):179–86

Localization of nitric oxide synthase using NADPH diaphorase histochemistry. Elphick MR. **Methods Mol Biol** 1997;72:153–8

Quantitative in situ hybridization histochemistry. Levy A. **Methods Mol Biol** 1997;72:171–83

High-speed voltage-sensitive dye imaging of an in vivo insect brain. Okada K, et al. **Neurosci Lett** 1996 May 17; 209(3):197–200

Improvement of the method for demonstration of nucleolar organizer regions (NORs) in formalin fixed and paraffin embedded tissue using microwave pretreatment. Juntes P. **Pflugers Arch** 1996;431(6 Suppl 2):R269–70

Neurons and microvessels of the nodose (vagal sensory) ganglion in young adult and aged rats: morphometric and enzyme histochemical studies. Soltanpour N, et al. **Tissue Cell** 1996 Oct;28(5):593–602

Tissue and cell distribution of copper, zinc and cadmium in the mussel, Mytilus galloprovincialis, determined by autometallography. Soto M, et al. **Tissue Cell** 1996 Oct; 28(5):557–68

HISTOCYTOLOGICAL PREPARATION TECHNIQUES

Histologic processing of thick tissue specimens from cytology slides. A novel technique. Verbeek DH, et al. **Acta Cytol** 1996 Nov–Dec;40(6):1198–204

Characterization of collagen by high-frequency ultrasound: evidence for different acoustic properties based on collagen fiber morphologic characteristics. Chandraratna PA, et al. **Am Heart J** 1997 Mar;133(3):364–8

Microbeam MOMeNT: non-contact laser microdissection of membrane-mounted native tissue. Böhm M, et al. **Am J Pathol** 1997 Jul;151(1):63–7

Immersion-histo polymerase chain reaction: a practical tool for visualization of single-copy genes in tissue sections. Pan L, et al. **Am J Pathol** 1997 Apr;150(4):1245–52

Improvements in slide preparation from archival material for automated DNA measurement by image analysis. Duigou F, et al. **Anal Quant Cytol Histol** 1997 Apr;19(2):167–73

Further testing of the value of a measurement protocol for DNA ploidy studies using image cytometry. Comparison of results obtained from cytologic and paraffin section preparations. Williams RA, et al. **Anal Quant Cytol Histol** 1996 Oct;18(5):345–50

Intraalveolar bubbles and bubble films: III. Vulnerability and preservation in the laboratory. Scarpelli EM, et al. **Anat Rec** 1997 Aug;248(4):498–520

The effect of histological processing on the form of iron in iron-loaded human tissues. Chua-anusorn W, et al. **Biochim Biophys Acta** 1997 May 24;1360(3):255–61

Sectioning fresh human bone: the reduction of aerosol and physical hazards. McCaskie AW, et al. **Br J Biomed Sci** 1997 Jun;54(2):88–90

Demonstration of silver-stained nucleolar organizer region associated proteins (AgNORs) after wet autoclave pretreatment in breast carcinoma: correlation to tumor stage and long-term survival. Ofner D, et al. **Breast Cancer Res Treat** 1996;39(2):165–76

Subnuclear localization of S/MAR-binding proteins is differently affected by in vitro stabilization with heat or Cu2+. Neri LM, et al. **Chromosoma** 1997 Jul;106(2):81–93

DNA image cytometry on sections as compared with image cytometry on smears and flow cytometry in melanoma. Klapperstück T, et al. **Cytometry** 1996 Sep 1;25(1):82–9

Application of whole-mount section of lung specimen in study of radiologic-pathologic correlations. Yang X, et al. **Eur J Radiol** 1996 Aug;23(1):79–81

Successful use of the same slide for consecutive fluorescence in situ hybridization experiments. Dierlamm J, et al. **Genes Chromosomes Cancer** 1996 Aug;16(4):261–4

Simultaneous detection of cytokine and immunophenotype at the single cell level by immunoenzymatic double staining. Behringer DM, et al. **Histochem J** 1996 Jun; 28(6):461–6

Specimen preparation and quantification of collagen birefringence in unstained sections of articular cartilage using image analysis and polarizing light microscopy. Király K, et al. **Histochem J** 1997 Apr;29(4):317–27

Paediatric rhabdomyosarcoma: MyoD1 demonstration in routinely processed tissue sections using wet heat pretreatment (pressure cooking) for antigen retrieval. Engel ME, et al. **J Clin Pathol** 1997 Jan;50(1):37–9

Tissue preparation for immunocytochemistry. Williams JH, et al. **J Clin Pathol** 1997 May;50(5):422–8

Drying cells for SEM, AFM and TEM by hexamethyldisilazane: a study on hepatic endothelial cells. Braet F, et al. **J Microsc** 1997 Apr;186 (Pt 1):84–7

Working experience with a new vacuum-accelerated microwave histoprocessor. Kovács L, et al. **J Pathol** 1996 Sep;180(1):106–10

Ultrastructural localization of peptides using immunogold labeling. Halton DW, et al. **Methods Mol Biol** 1997; 73:293–303

Preparation of brain slices. Wang T, et al. **Methods Mol Biol** 1997;72:1–14

The DCC protein and colon cancer [letter; comment] Swaim MW. **N Engl J Med** 1997 May 15;336(20):1456; discussion 1456–7. Comment on: N Engl J Med 1996 Dec 5;335(23):1727–32.

Functional stability of hippocampal slices after treatment with cyclooxygenase inhibitors. Pakhotin PI, et al. **Neuroreport** 1997 May 6;8(7):1755–9

Rapid in situ harvesting and cytogenetic analysis of perinatal tissue samples. Fisher AM, et al. **Prenat Diagn** 1996 Jul; 16(7):615–21

The nuclear matrix revealed by eluting chromatin from a cross-linked nucleus. Nickerson JA, et al. **Proc Natl Acad Sci U S A** 1997 Apr 29;94(9):4446–50

Influence of tissue preparation on the high-frequency acoustic properties of normal kidney tissue. Sasaki H, et al. **Ultrasound Med Biol** 1996;22(9):1261–5

[A simple and reliable method of preparing "permanent" biopreparations of different-origin cells for phase-contrast optical microscopy] Visotskiĭ VV, et al. **Klin Lab Diagn** 1996 May–Jun;(3):38–40 (Eng. Abstr.) **(Rus)**

[Comparative analysis of agreement between cytologic diagnosis by examination of tissue imprints and pathohistologic findings in intraoperative breast biopsy] Bokun R, et al. **Vojnosanit Pregl** 1997 Jan–Feb;54(1):27–30 (Eng. Abstr.) **(Scr)**

HISTOLOGICAL TECHNIQUES

Comparison of conventional cytologic smears and ThinPrep preparations from the anal canal. Darragh TM, et al. **Acta Cytol** 1997 Jul–Aug;41(4):1167–70

Ultrafast Papanicolaou stain: one year's experience in a fine needle aspiration service [letter] Lemos LB, et al. **Acta Cytol** 1997 Sep–Oct;41(5):1630–1

Value of Gram's stain of cell block material from peritoneal fluid in bacterial peritonitis. Renshaw AA, et al. **Acta Cytol** 1997 May–Jun;41(3):755–8

Histologic assessment of equivocal cytologic smears. Sumithran E, et al. **Acta Cytol** 1997 May–Jun;41(3):697–700

A novel method to demonstrate capillary geometry and perfusion patterns in rat brain from the same histological section. Batra S, et al. **Adv Exp Med Biol** 1996;388:77–83

Methods utilized in the study of apoptosis. Mesner PW Jr, et al. **Adv Pharmacol** 1997;41:57–87 (113 ref.)

In vitro systems for the study of apoptosis. Takahashi A, et al. **Adv Pharmacol** 1997;41:89–106 (77 ref.)

Sampling location in cortical bone histology. Drusini AG. **Am J Phys Anthropol** 1996 Aug;100(4):609–10

A new procedure for the isolation of plasma membranes, T tubules, and internal membranes from skeletal muscle. Dombrowski L, et al. **Am J Physiol** 1996 Apr;270(4 Pt 1):E667–76

Rapid cooling contractures in rat skinned myocardium: effects of isoflurane and halothane. Herland J, et al. **Am J Physiol** 1996 May;270(5 Pt 2):H1662–71

Access to rat kidney with minimal anesthesia and surgery: a new experimental model. Sadowski J, et al. **Am J Physiol** 1996 Jan;270(1 Pt 2):R298–303

Detection of infection or infectious agents by use of cytologic and histologic stains. Woods GL, et al. **Clin Microbiol Rev** 1996 Jul;9(3):382–404 (205 ref.)

Improved method for examination of microvascular structures in bone tissue. Møller JF, et al. **Clin Orthop** 1997 Jan;(334):15–23

Multifarious system for quantitative analysis of histologic compartments. Klencki M, et al. **Comput Biomed Res** 1997 Apr;30(2):165–9

The two-step vacuum-microwave method for histoprocessing. Boon ME, et al. **Eur J Morphol** 1995 Nov; 33(4):349–58

Influence of fixation and histological procedure on the morphometric parameters of neuronal cells. Sadowski M, et al. **Folia Morphol (Warsz)** 1995;54(4):219–26

Computerized determination of proliferating cell nuclear antigen expression in meningiomas. A comparison with non-automated method. Konstantinidou A, et al. **Gen Diagn Pathol** 1997 Jun;142(5–6):311–6

Incidence of extramural venous invasion in colorectal carcinoma: findings with a new technique. Dirschmid K, et al. **Hum Pathol** 1996 Nov;27(11):1227–30

In situ hybridization for vasopressin mRNA in the human supraoptic and paraventricular nucleus; quantitative aspects of formalin-fixed paraffin-embedded tissue sections as compared to cryostat sections. Lucassen PJ, et al. **J Neurosci Methods** 1996 Jan;64(1):133

The physical chemical basis for preserving cell structure for electron microscopy at the molecular level and available preparatory methods. Sjöstrand FS. **J Submicrosc Cytol Pathol** 1997 Apr;29(2):157–72 (27 ref.)

Simultaneous double immunoenzymatic labeling: a new procedure for the histopathologic routine. Chaubert P, et al. **Mod Pathol** 1997 Jun;10(6):585–91

Determination of NADH in the rat brain during sleep–wake states with an optic fibre sensor and time-resolved fluorescence procedures. Mottin S, et al. **Neuroscience** 1997 Aug;79(3):683–93

Subdivisions of the guinea-pig accessory olfactory bulb revealed by the combined method with immunohistochemistry, electrophysiological, and optical recordings. Sugai T, et al. **Neuroscience** 1997 Aug; 79(3):871–85

Partial recovery of in vivo function by improved incubation conditions of isolated renal proximal tubule. II. Change of Na-HCO3 cotransport stoichiometry and of response to acetazolamide. Müller-Berger S, et al. **Pflugers Arch** 1997 Aug;434(4):383–91

Laser capture microdissection [see comments] Emmert-Buck MR, et al. **Science** 1996 Nov 8;274(5289):998–1001. Comment in: Science 1996 Nov 8;274(5289):921–2.

Immunohistochemical localization of parathyroid hormone-related protein in canine mammary tumors. Okada H, et al. **Vet Pathol** 1997 Jul;34(4):356–9

[Standardization of tests for the pathology of the breast] Contesso G, et al. **Bull Cancer** 1996 Dec;83(12):1053–60 (29 ref.) **(Fre)**

[Differential diagnosis of cystic adnexa processes. A comparison of the value of sonography, puncture cytology and color and biochemical biopsy analysis with histology] Christensen B, et al. **Zentralbl Gynakol** 1997;119(2):66–74 (Eng. Abstr.) **(Ger)**

[New biotechnology frontiers in histocytopathology (editorial)] Pollice L. **Recenti Prog Med** 1996 Nov; 87(11):549–54 **(Ita)**

[Thoracoscopic wedge resection of small pulmonary nodules—evaluation of Endofinger and colored collagen injection techniques for localization of pulmonary nodules] Horio H, et al. **Nippon Kyobu Geka Gakkai Zasshi** 1996 Aug;44(8):1059–64 (Eng. Abstr.) **(Jpn)**

[The clarification of anatomical preparations with a naphthalene solution in dimethylphthalate] Gendler EM. **Arkh Anat Gistol Embriol** 1968 Nov;55(11):83–4 **(Rus)**

[Acceleration of histologic tissue processing and decalcification using a microwave oven] Zubkova TV, et al. **Arkh Patol** 1997 Mar–Apr;59(2):64–6 (Eng. Abstr.) **(Rus)**

[Conjugation of lectins with horseradish peroxidase: an improved method] Antoniuk VA, et al. **Klin Lab Diagn** 1996 May–Jun;(3):51–2 **(Rus)**

[Pathohistologic procedures in encapsulated follicular tumors of the thyroid gland] Separović V, et al. **Lijec Vjesn** 1996 May–Jun;118(5–6):138–41 (Eng. Abstr.) **(Scr)**

ADVERSE EFFECTS

Spermatic cord contamination in testicular cancer. Nazeer T, et al. **Mod Pathol** 1996 Jul;9(7):762–6

HISTORY

Early history of Eastman Kodak Ektachem slides and instrumentation. Curme H, et al. **Clin Chem** 1997 Sep; 43(9):1647–52

INSTRUMENTATION

A computer-controlled mechanical culture system for biological testing of articular cartilage explants. Steinmeyer J. **J Biomech** 1997 Aug;30(8):841–5

Method and device for the removal of samples of organs and tissues for histological investigation. Nikolenko VN, et al. **Neurosci Behav Physiol** 1996 May–Jun;26(3):234–6

[Section plastination of the larynx for histology of whole organ sections] Sittel C, et al. **HNO** 1996 Jul;44(7):370–5 (Eng. Abstr.) **(Ger)**

[3-dimensional reconstruction of histological serial sections using a computer] Weninger WJ, et al. **Wien Klin Wochenschr** 1996;108(16):515–20 (Eng. Abstr.) **(Ger)**

[Experiences with a new vacuum-accelerated microwave histoprocessor] Kovács L, et al. **Orv Hetil** 1996 Jul 7; 137(27):1479–83 (Eng. Abstr.) **(Hun)**

STANDARDS

Comparison of different mathematical algorithms to correct DNA-histograms obtained by measurements on thin liver tissue sections. Mairinger T, et al. **Anal Cell Pathol** 1996 Aug;11(3):159–71

Quantitative pathology in uterine smooth muscle tumours: the case for the standard histologic classification criteria. Soumakis S, et al. **Eur J Gynaecol Oncol** 1997;18(3):203–7

A comparison of the cytology of endomyocardial biopsy washings from heart transplants with biopsy histologic study and peripheral blood lymphocyte counts. Clelland C, et al. **J Heart Lung Transplant** 1997 May;16(5):477–83

TRENDS

Atomic force microscopy in histology and cytology. Ushiki T, et al. **Arch Histol Cytol** 1996 Dec;59(5):421–31 (47 ref.)

VETERINARY

Evaluation of alternative methods to prepare porcine adipocytes for measurement with an electronic particle number and size determination apparatus. Fakler T, et al. **J Anim Sci** 1996 Oct;74(10):2385–93

HISTOLOGY

Histopathological data [letter; comment] Bogomoletz WV, et al. **Br J Cancer** 1997;75(12):1854. Comment on: Br J Cancer 1996 Jun;73(12):1545–51.

Don't dissect use the disector! If you assume, you can make

an ass out of u and me': a decade of the disector for sterological counting of particles in 3D space. Maynard RL. **Hum Exp Toxicol** 1996 Oct;15(10):862–3

[Bibliographical index of papers of the journals Archive of Anatomy, Histology and Embryology, volumes 92–101, and Morphology, volumes 102–110] **Morfologiia** 1997; 111(3):5–119 **(Rus)**

EDUCATION

So you want to train in histopathology. Crow J. **Br J Hosp Med** 1996 Dec 11–1997 Jan 14;56(11):590–1

Introduction to histology through the use of familiar objects: innovative teaching module. Koshi R, et al. **Clin Anat** 1997; 10(5):333–6

Students' perceptions of a multimedia computer-aided instruction resource in histology. Mars M, et al. **S Afr Med J** 1996 Sep;86(9):1098–102

[The theoretical bases and sequence for setting forth the material in a course on histology, embryology and cytology in medical colleges] Kochetov NN. **Morfologiia** 1995; 108(3):92–7 **(Rus)**

[Once more on integration, only for real] Sapin MR. **Morfologiia** 1997;111(1):104–5 **(Rus)**

HISTORY

[Articles published in the Archives d'Anatomie, d'Histologie et d'Embryologie from volume 1 (1922) to volume 74 (1991–92)] Le Minor JM. **Arch Anat Histol Embryol** 1993–94;75:111–50 (Eng. Abstr.) **(Fre)**

[History of histology in Strasbourg] Le Minor JM. **Arch Anat Histol Embryol** 1993–94;75:151–82 (Eng. Abstr.) **(Fre)**

[Professor Wladyslaw Szymonowicz (1869–1939). Scientific biography] Wołczański J. **Folia Med Cracov** 1996; 37(3–4):41–9 (Eng. Abstr.) **(Pol)**

METHODS see HISTOLOGICAL TECHNIQUES

STATISTICS & NUMERICAL DATA

Bayesian Belief Network in histopathology [letter; comment] Shek TW. **J Clin Pathol** 1996 Oct;49(10):864. Comment on: J Clin Pathol 1996 Mar;49(3):194–201.

TRENDS

[Problems in histology and their resolution] Danilov RK. **Morfologiia** 1996;109(2):111–3 **(Rus)**

[The morphology, we have preserved] Kolesnikov LL, et al. **Morfologiia** 1995;108(3):104–5 **(Rus)**

HISTOMONIASIS see **PROTOZOAN INFECTIONS**

HISTONE DEACETYLASE

ANTAGONISTS & INHIBITORS

1H-magnetic resonance spectroscopic observation of cultured malignant cells pharmacologically induced to different phenotypes. Nakai T, et al. **Acad Radiol** 1996 Sep; 3(9):742–50

Treatment of left-sided ulcerative colitis with butyrate enemas: a controlled trial. Steinhart AH, et al. **Aliment Pharmacol Ther** 1996 Oct;10(5):729–36

Direct inhibition of the expression of cyclin D1 gene by sodium butyrate. Lallemand F, et al. **Biochem Biophys Res Commun** 1996 Dec 4;229(1):163–9

Apoptotic death in adenocarcinoma cell lines induced by butyrate and other histone deacetylase inhibitors. McBain JA, et al. **Biochem Pharmacol** 1997 May 9;53(9):1357–68

Effect of the histone deacetylase inhibitor trichostatin A on the responsiveness of rat hepatocytes to dioxin. Xu L, et al. **Biochem Pharmacol** 1997 Apr 4;53(7):951–7

Influence of histone acetylation on the modification of cytoplasmic and nuclear proteins by ADP-ribosylation in response to free radicals. Böhm L, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):149–54

Induction of gamma-globin by histone deacetylase inhibitors. McCaffrey PG, et al. **Blood** 1997 Sep 1;90(5):2075–83

Histone hyperacetylation plays a role in augmentation of IL-4-induced IgE production in LPS-stimulated murine B-lymphocytes by sodium butyrate. Yamamoto I, et al. **J Biochem (Tokyo)** 1996 Jun;119(6):1056–61

Reactivation of silenced, virally transduced genes by inhibitors of histone deacetylase. Chen WY, et al. **Proc Natl Acad Sci U S A** 1997 May 27;94(11):5798–803

Apicidin: a novel antiprotozoal agent that inhibits parasite histone deacetylase. Darkin-Rattray SJ, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):13143–7

Amplification of recombinant adenoviral transgene products occurs by inhibition of histone deacetylase. Dion LD, et al. **Virology** 1997 May 12;231(2):201–9

[Morphological reversion of tumor cells by histone deacetylase inhibitors and radicicol] Yoshida M, et al. **Gan To Kagaku Ryoho** 1997 Sep;24(11):1512–8 (34 ref.) (Eng. Abstr.) **(Jpn)**

CHEMISTRY

Purification and characterization of a high molecular weight histone deacetylase complex (HD2) of maize embryos. Brosch G, et al. **Biochemistry** 1996 Dec 10;35(49):15907–14

The p55 subunit of Drosophila chromatin assembly factor 1 is homologous to a histone deacetylase-associated protein. Tyler JK, et al. **Mol Cell Biol** 1996 Nov; 16(11):6149–59

Identification of maize histone deacetylase HD2 as an acidic nucleolar phosphoprotein. Lusser A, et al. **Science** 1997 Jul 4;277(5322):88–91

GENETICS

Histone deacetylase activity is required for full transcriptional repression by mSin3A. Hassig CA, et al. **Cell** 1997 May 2;89(3):341–7

Histone deacetylases associated with the mSin3 corepressor mediate mad transcriptional repression. Laherty CD, et al. **Cell** 1997 May 2;89(3):349–56

Identification of mouse histone deacetylase 1 as a growth factor-inducible gene. Bartl S, et al. **Mol Cell Biol** 1997 Sep;17(9):5033–43

Histone deacetylases, acetoin utilization proteins and acetylpolyamine amidohydrolases are members of an ancient protein superfamily. Leipe DD, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3693–7

HDA1 and RPD3 are members of distinct yeast histone deacetylase complexes that regulate silencing and transcription. Rundlett SE, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14503–8

ISOLATION & PURIFICATION

Purification of histone deacetylase HD1-A of germinating maize embryos. Brosch G, et al. **FEBS Lett** 1996 Sep 16; 393(2–3):287–91

METABOLISM

Histone deacetylase activity is required for full transcriptional repression by mSin3A. Hassig CA, et al. **Cell** 1997 May 2;89(3):341–7

Repression by Ume6 involves recruitment of a complex containing Sin3 corepressor and Rpd3 histone deacetylase to target promoters. Kadosh D, et al. **Cell** 1997 May 2; 89(3):365–71

Histone deacetylases associated with the mSin3 corepressor mediate mad transcriptional repression. Laherty CD, et al. **Cell** 1997 May 2;89(3):349–56

Nuclear receptor repression mediated by a complex containing SMRT, mSin3A, and histone deacetylase. Nagy L, et al. **Cell** 1997 May 2;89(3):373–80

Histone deacetylases and SAP18, a novel polypeptide, are components of a human Sin3 complex. Zhang Y, et al. **Cell** 1997 May 2;89(3):357–64

Transcriptional control: calling in histone deacetylase. Kiermaier A, et al. **Curr Biol** 1997 Aug 1;7(8):R505–7 (20 ref.)

Cell growth inhibition by the Mad/Max complex through recruitment of histone deacetylase activity. Sommer A, et al. **Curr Biol** 1997 Jun 1;7(6):357–65

The p55 subunit of Drosophila chromatin assembly factor 1 is homologous to a histone deacetylase-associated protein. Tyler JK, et al. **Mol Cell Biol** 1996 Nov; 16(11):6149–59

The histone deacetylase RPD3 counteracts genomic silencing in Drosophila and yeast. De Rubertis F, et al. **Nature** 1996 Dec 12;384(6609):589–91

Identification of maize histone deacetylase HD2 as an acidic nucleolar phosphoprotein. Lusser A, et al. **Science** 1997 Jul 4;277(5322):88–91

PHARMACOLOGY

Histone hyperacetylating agents stimulate promoter activity of human choline acetyltransferase gene in transfection experiment. Chireux M, et al. **Brain Res Mol Brain Res** 1996 Jul;39(1–2):68–78

Induction of caspase-3 protease activity and apoptosis by butyrate and trichostatin A (inhibitors of histone deacetylase): dependence on protein synthesis and synergy with a mitochondrial/cytochrome c-dependent pathway. Medina V, et al. **Cancer Res** 1997 Sep 1;57(17):3697–707

PHYSIOLOGY

Role for N-CoR and histone deacetylase in Sin3-mediated transcriptional repression [see comments] Alland L, et al. **Nature** 1997 May 1;387(6628):49–55. Comment in: Nature 1997 May 1;387(6628):16–7.

A complex containing N-CoR, mSin3 and histone deacetylase mediates transcriptional repression [see comments] Heinzel T, et al. **Nature** 1997 May 1; 387(6628):43–8. Comment in: Nature 1997 May 1;387(6628):16–7.

HISTONE H1 KINASE, M-PHASE-SPECIFIC see **MATURATION-PROMOTING FACTOR**

HISTONE KINASE see **PROTAMINE KINASE**

HISTONE KINASE P34(CDC2) see **PROTEIN P34CDC2**

HISTONE-LYSINE METHYLTRANSFERASE

GENETICS

Unusual ribulose-1,5-bisphosphate carboxylase/oxygenase genes from a marine manganese-oxidizing bacterium. Caspi R, et al. **Microbiology** 1996 Sep;142 (Pt 9):2549–59

Organization and characterization of the ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit epsilon N-methyltransferase gene in tobacco. Ying Z, et al. **Plant Mol Biol** 1996 Nov;32(4):663–71

METABOLISM

Side reactions catalyzed by ribulose-bisphosphate carboxylase in the presence and absence of small subunits. Morell MK, et al. **J Biol Chem** 1997 Feb 28;272(9):5445–51

The large subunit of ribulose-1,5-bisphosphate carboxylase/oxygenase is fragmented into 37-kDa and 16-kDa polypeptides by active oxygen in the lysates of chloroplasts from primary leaves of wheat. Ishida H, et al. **Plant Cell Physiol** 1997 Apr;38(4):471–9

HISTONES

Gene transfer into mammalian cells using histone-condensed plasmid DNA. Fritz JD, et al. **Hum Gene Ther** 1996 Aug 1;7(12):1395–404

Exploration of requirements for peptidomimetic immune recognition. Antigenic and immunogenic properties of reduced peptide bond pseudopeptide analogues of a histone hexapeptide. Benkirane N, et al. **J Biol Chem** 1996 Dec 27;271(52):33218–24

CCAAT binding NF-Y-TBP interactions: NF-YB and NF-YC require short domains adjacent to their histone fold motifs for association with TBP basic residues. Bellorini M, et al. **Nucleic Acids Res** 1997 Jun 1; 25(11):2174–81

The AT-rich flanks of the oocyte-type 5S RNA gene of Xenopus laevis act as a strong local signal for histone H1-mediated chromatin reorganization in vitro. Tomaszewski R, et al. **Nucleic Acids Res** 1997 Feb 1; 25(3):458–66

The linker histones and chromatin structure: new twists. Zlatanova J, et al. **Prog Nucleic Acid Res Mol Biol** 1996; 52:217–59 (189 ref.)

ADMINISTRATION & DOSAGE

[Increase in thyroxine level in blood plasma of hypothyroid rats after administering histones] Tiulenev VI, et al. **Ukr Biokhim Zh** 1995 Nov-Dec;67(6):76–9 (Eng. Abstr.) **(Rus)**

ANALYSIS

Properties of the histones and functional aspects of the soluble chromatin of epimastigote Trypanosoma cruzi. Schlimme W, et al. **Acta Trop** 1995 Dec;60(3):141–54

The 17 kDa band identified by multiple anti-aquaporin 2 antisera in rat kidney medulla is a histone. Jo I, et al. **Biochim Biophys Acta** 1997 Feb 21;1324(1):91–101

Preparation of insect chromosomes for immunolabeling. Wolf KW, et al. **Biotech Histochem** 1996 May;71(3):137–44

Reduced levels of histone H3 acetylation on the inactive X chromosome in human females. Boggs BA, et al. **Chromosoma** 1996 Dec;105(5):303–9

Tomographic distribution of acetylated histone H4 in plant chromosomes, nuclei and nucleoli. Idei S, et al. **Chromosoma** 1996 Dec;105(5):293–302

Differential immunostaining of plant chromosomes by antibodies recognizing acetylated histone H4 variants. Houben A, et al. **Chromosome Res** 1996 Apr;4(3):191–4

Characterization of the antigenic determinants of the Leishmania infantum histone H3 recognized by antibodies elicited during canine visceral leishmaniasis. Soto M, et al. **Clin Exp Immunol** 1996 Dec;106(3):454–61

Very alkaline immobilized pH gradients for two-dimensional electrophoresis of ribosomal and nuclear proteins. Görg A, et al. **Electrophoresis** 1997 Mar-Apr;18(3-4):328–37

Hybrid nucleoprotein particles containing a subset of male and female histone variants form during male pronucleus formation in sea urchins. Imschenetzky M, et al. **J Cell Biochem** 1996 Dec 15;63(4):385–94

Separation of acetylated core histones by hydrophilic-interaction liquid chromatography. Lindner H, et al. **J Chromatogr A** 1996 Aug 30;743(1):137–44

High-sensitivity mass spectrometry for analysis of posttranslational modifications. Takao T, et al. **J Protein Chem** 1997 Jul;16(5):409–13

[The type of changes in the histone/DNA ratio during ontogenesis of multicellular organisms] Shabalkin IP. **Biull Eksp Biol Med** 1996 Dec;122(12):695–8 **(Rus)**

[Cytological analysis of histone component of chromatin from hepatocyte nucleus during disorders of vagus innervation of the rat liver] Shcherbo IV, et al. **Biull Eksp Biol Med** 1997 Feb;123(2):216–9 **(Rus)**

BIOSYNTHESIS

A conserved element in the protein-coding sequence is required for normal expression of replication-dependent histone genes in developing Xenopus embryos. Ficzycz A, et al. **Dev Biol** 1997 Feb 1;182(1):21–32

Histone H1(0) expression is restricted to progenitor cells during human hematopoiesis. Valiron O, et al. **Eur J Cell Biol** 1997 Jan;72(1):39–45

Transcriptional regulation of the human replacement histone gene H3.3B. Witt O, et al. **FEBS Lett** 1997 May 26;

408(3):255–60
Characterization of the calf thymus hairpin–binding factor involved in histone pre–mRNA 3'end processing. Schaller A, et al. **J Biol Chem** 1997 Apr 18;272(16):10435–41
Identification of histone H2A.X as a growth factor secreted by an androgen–independent subline of mouse mammary carcinoma cells. Watabe Y, et al. **J Biol Chem** 1996 Oct 11;271(41):25126–30
Changes in histone synthesis and modification at the beginning of mouse development correlate with the establishment of chromatin mediated repression of transcription. Wiekowski M, et al. **J Cell Sci** 1997 May; 110 (Pt 10):1147–58
Endochondral and intramembranous fetal bone development: osteoblastic cell proliferation, and expression of alkaline phosphatase, m–twist, and histone H4. Alborzi A, et al. **J Craniofac Genet Dev Biol** 1996 Apr–Jun;16(2):94–106
Functional domains for assembly of histones H3 and H4 into the chromatin of Xenopus embryos. Freeman L, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12780–5
Enhancer blocking activity located near the 3' end of the sea urchin early H2A histone gene. Palla F, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2272–7
Histone H1 overexpressed to high level in tobacco affects certain developmental programs but has limited effect on basal cellular functions. Prymakowska–Bosak M, et al. **Proc Natl Acad Sci U S A** 1996 Sep 17;93(19):10250–5
CDP/cut is the DNA–binding subunit of histone gene transcription factor HiNF–D: a mechanism for gene regulation at the G1/S phase cell cycle transition point independent of transcription factor E2F. van Wijnen AJ, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15; 93(21):11516–21
[Effect of L–lysine–alpha–oxidase on the synthesis of cell proteins, targets of autoimmune pathology in HIV infection] Berezov TT, et al. **Biull Eksp Biol Med** 1997 Jan;123(1):36–8 **(Rus)**

BLOOD

Phosphorylated sites of chicken erythrocyte histone H5 by a cyclic AMP–independent protein kinase from mouse plasmocytoma cells. Martinage A, et al. **FEBS Lett** 1981 Nov 2;134(1):103–6
[Screening for malignant neoplasms by using the new method of marker diagnosis, the Oncotest] Suslov EI, et al. **Lik Sprava** 1997 Jan–Feb;(1):99–103 (Eng. Abstr.) **(Rus)**
[An analysis of the lymphoid cell histones in patients with different forms of lupus erythematosus] Khamaganova IV, et al. **Ter Arkh** 1996;68(12):82–4 (Eng. Abstr.) **(Rus)**

CHEMISTRY

Histone structure and the organization of the nucleosome. Ramakrishnan V. **Annu Rev Biophys Biomol Struct** 1997; 26:83–112 (138 ref.)
Neutron scattering studies on chromatin higher–order structure. Graziano V, et al. **Basic Life Sci** 1996;64:127–36
Major role of the histones H3–H4 in the folding of the chromatin fiber. Moore SC, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):136–9
H1–H1 cross–linking efficiency depends on genomic DNA methylation. Reale A, et al. **Biochem Biophys Res Commun** 1996 Oct 23;227(3):768–74
Structure of active chromatin: covalent modifications of histones in active and inactive genes of control and hypothyroid rat liver. Tikoo K, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):281–7
Interaction of polyadenylic acid (5') with histone H1 or protamine. Kuo WN, et al. **Biochem Mol Biol Int** 1996 Oct;40(2):365–72
Condensation of DNA and chromatin by an SPKK–containing octapeptide repeat motif present in the C–terminus of histone H1. Khadake JR, et al. **Biochemistry** 1997 Feb 4;36(5):1041–51
Structure of a covalently cross–linked form of core histones present in the starfish sperm. Shimizu T, et al. **Biochemistry** 1997 Oct 7;36(40):12071–9
Hybrid trypsinized nucleosomal arrays: identification of multiple functional roles of the H2A/H2B and H3/H4 N–termini in chromatin fiber compaction. Tse C, et al. **Biochemistry** 1997 Sep 23;36(38):11381–8
Complexes of non–cationic liposomes and histone H1 mediate efficient transfection of DNA without encapsulation. Hagstrom JE, et al. **Biochim Biophys Acta** 1996 Oct 2; 1284(1):47–55
Influence of DNA superstructural features and histones aminoterminal domains on mononucleosome and dinucleosome positioning. De Santis P, et al. **Biophys Chem** 1996 Nov 29;62(1–3):47–61
Histone H1 preferentially binds to superhelical DNA molecules of higher compaction [see comments] Ivanchenko M, et al. **Biophys J** 1997 Mar;72(3):1388–95. Comment in: Biophys J 1997 Mar;72(3):983–4.
Linker histones' role revisited [comment] Prunell A. **Biophys J** 1997 Mar;72(3):983–4 (15 ref.). Comment on: Biophys J 1997 Mar;72(3):1388–95.
Carboxyl–terminal peptides from histone H1 variants: DNA binding characteristics and solution conformation. Wellman SE. **Biopolymers** 1996 Oct;39(4):491–501
The liver cell histones of diabetic patients contain glycation endproducts (AGEs) which may be lipofuscin components [letter] Jobst K, et al. **Clin Chim Acta** 1996 Dec 30; 256(2):203–4
Histone–like transcription factors in eukaryotes. Burley SK, et al. **Curr Opin Struct Biol** 1997 Feb;7(1):94–102 (47 ref.)
Organization of the chicken histone genes in a major gene cluster and generation of an almost complete set of the core histone protein sequences. Takami Y, et al. **DNA Res** 1996 Apr 30;3(2):95–9
Effects of Sin– versions of histone H4 on yeast chromatin structure and function. Wechser MA, et al. **EMBO J** 1997 Apr 15;16(8):2086–95
Photoaffinity labelling of a DNA–binding site on the globular domain of histone H5. Goytisolo FA, et al. **Eur J Biochem** 1996 Dec 15;242(3):619–26
Nucleotide and calcium–induced conformational changes in histone H1. Tarkka T, et al. **FEBS Lett** 1997 Apr 7; 406(1–2):56–60
Generation of hydroxyl radicals by nucleohistone–bound metal–adriamycin complexes. Chakrabarti S, et al. **Free Radic Res** 1996 Sep;25(3):207–20
Structural and functional properties of linker histones and high mobility group proteins in polytene chromosomes. Wiśniewski JR, et al. **Int J Dev Biol** 1996 Feb;40(1):177–87 (83 ref.)
The core histone fold: limits to functional versatility [letter] Ouzounis CA, et al. **J Mol Evol** 1996 Dec;43(6):541–2
Histone and histone fold sequences and structures: a database. Baxevanis AD, et al. **Nucleic Acids Res** 1997 Jan 1; 25(1):272–3
H2A.ZI, a new variant histone expressed during Xenopus early development exhibits several distinct features from the core histone H2A. Iouzalen N, et al. **Nucleic Acids Res** 1996 Oct 15;24(20):3947–52
Functional domains for assembly of histones H3 and H4 into the chromatin of Xenopus embryos. Freeman L, et al. **Proc Natl Acad Sci U S A** 1996 Nov 12;93(23):12780–5
The N–terminal tail of histone H2A binds to two distinct sites within the nucleosome core. Lee KM, et al. **Proc Natl Acad Sci U S A** 1997 Aug 19;94(17):8959–64
Crystallization and preliminary X–ray characterization of the Methanothermus fervidus histones HMfA and HMfB. Decanniere K, et al. **Proteins** 1996 Feb;24(2):269–71
Researchers get their first good look at the nucleosome [news] Featherstone C. **Science** 1997 Sep 19; 277(5333):1763–4
An asymmetric model for the nucleosome: a binding site for linker histones inside the DNA gyres [see comments] Pruss D, et al. **Science** 1996 Oct 25;274(5287):614–7. Comment in: Science 1996 Oct 25;274(5287):503–4.
Where is the globular domain of linker histone located on the nucleosome? Crane–Robinson C. **Trends Biochem Sci** 1997 Mar;22(3):75–7 (22 ref.)
A likely histone H2A.F/Z variant in Saccharomyces cerevisiae. Jackson JD, et al. **Trends Biochem Sci** 1996 Dec; 21(12):466–7
Histone H1 in Saccharomyces cerevisiae: a double mystery solved? [see comments] Landsman D. **Trends Biochem Sci** 1996 Aug;21(8):287–8. Comment in: Trends Biochem Sci 1997 Feb;22(2):49.
Folding of the SPKK rich peptide in the presence of the octa–oligonucleotide. Zubrzycki IZ, et al. **Z Naturforsch [C]** 1997 Jan–Feb;52(1–2):77–81
[UV–crosslinking of the globular domain of histone H1 with DNA in deoxyribonucleoprotein] Kurochkina LP, et al. **Biokhimiia** 1996 Jun;61(6):1055–63 (Eng. Abstr.) **(Rus)**
[Electron microscopic study of structural changes in kinetoplast DNA upon exposure to histone H1] Martynkina LP, et al. **Mol Biol (Mosk)** 1996 Jul–Aug;30(4):901–10 **(Rus)**

CLASSIFICATION

Characterization of the antigenic determinants of the Leishmania infantum histone H3 recognized by antibodies elicited during canine visceral leishmaniasis. Soto M, et al. **Clin Exp Immunol** 1996 Dec;106(3):454–61

GENETICS

Molecular cloning of histone H1 in Entamoeba histolytica and histone H2B in Entamoeba histolytica and Entamoeba dispar. Scharfetter JK, et al. **Arch Med Res** 1997;28 Spec No:14–6
Organization, transcription and regulation of the Leishmania infantum histone H3 genes. Soto M, et al. **Biochem J** 1996 Sep 15;318 (Pt 3):813–9
Structure of active chromatin: covalent modifications of histones in active and inactive genes of control and hypothyroid rat liver. Tikoo K, et al. **Biochem J** 1997 Feb 15;322 (Pt 1):281–7
Uncoordinated regulation of histone H1(0)synthesis and H1(0) mRNA level. Rousseau D. **Biochem Mol Biol Int** 1996 Apr;38(5):1023–32
Measurement of the frequency of histone displacement during the in vitro transcription of nucleosomes: RNA is a competitor for these histones. Peng HF, et al. **Biochemistry** 1997 Oct 7;36(40):12371–82
Molecular cloning of a cDNA encoding the nucleosome core histone H3 from Dictyostelium discoideum by genetic screening in yeast. Bukenberger M, et al. **Biochim Biophys Acta** 1997 May 2;1352(1):85–90
Histone H4 mRNA from the nematode Ascaris lumbricoides is cis–spliced and polyadenylated. Wyler–Duda P, et al. **Biochim Biophys Acta** 1997 Feb 28;1350(3):259–61
Characterization of the promoter region of the rat testis–specific histone H1t gene. Clare SE, et al. **Biol Reprod** 1997 Jan;56(1):73–82
S phase determination in intact colonic crypts by histone H3 messenger RNA in situ hybridization and confocal microscopy. Konishi H, et al. **Cancer Epidemiol Biomarkers Prev** 1997 Jul;6(7):531–6
What's up and down with histone deacetylation and transcription? Pazin MJ, et al. **Cell** 1997 May 2;89(3):325–8 (20 ref.)
Archaeal histones, nucleosomes, and transcription initiation. Reeve JN, et al. **Cell** 1997 Jun 27;89(7):999–1002 (18 ref.)
Transcriptional control of cell cycle progression: the histone gene is a paradigm for the G1/S phase and proliferation/differentiation transitions. Stein GS, et al. **Cell Biol Int** 1996 Jan;20(1):41–9 (75 ref.)
Nucleosomes and transcription: recent lessons from genetics. Hartzog GA, et al. **Curr Opin Genet Dev** 1997 Apr; 7(2):192–8 (60 ref.)
Chromosome mapping of rat histone genes H1fv, H1d, H1t, Th2a and Th2b. Walter L, et al. **Cytogenet Cell Genet** 1996; 75(2–3):136–9
H3.3A variant histone mRNA containing an alpha–globin insertion: modulated expression during mouse gametogenesis correlates with meiotic onset. López–Alānón DM, et al. **DNA Cell Biol** 1997 May; 16(5):639–44
Organization of the chicken histone genes in a major gene cluster and generation of an almost complete set of the core histone protein sequences. Takami Y, et al. **DNA Res** 1996 Apr 30;3(2):95–9
Structure of histone H2B and H4 genes of the sea cucumber Holothuria tubulosa. Drabent B, et al. **DNA Seq** 1995; 6(1):41–5
A cell cycle–regulated histone H3 gene of alfalfa with an atypical promoter structure. Robertson AJ, et al. **DNA Seq** 1997;7(3–4):209–16
The gene for histone RNA hairpin binding protein is located on human chromosome 4 and encodes a novel type of RNA binding protein. Martin F, et al. **EMBO J** 1997 Feb 17; 16(4):769–78
Histone octamer function in vivo: mutations in the dimer–tetramer interfaces disrupt both gene activation and repression. Santisteban MS, et al. **EMBO J** 1997 May 1; 16(9):2493–506
Two types of polyadenated mRNAs are synthesized from Drosophila replication–dependent histone genes. Akhmanova A, et al. **Eur J Biochem** 1997 Mar 1; 244(2):294–300
Isolation and amino acid sequence analysis reveal an ancient evolutionary origin of the cleavage stage (CS) histones of the sea urchin. Brandt WF, et al. **Eur J Biochem** 1997 Aug 1;247(3):784–91
Transgenic mice transcribing the human H1 zero histone gene exhibit a normal phenotype. Tönjes RR, et al. **Eur J Biochem** 1997 Apr 1;245(1):97–102
Testis–specific expression of a novel human H3 histone gene. Witt O, et al. **Exp Cell Res** 1996 Dec 15;229(2):301–6
The S.//.A.IG amino acid motif is present in a replication dependent late H3 histone variant of P. lividus sea urchin. Fucci L, et al. **FEBS Lett** 1997 Apr 21;407(1):101–4
H4 histone in the macronucleus of Blepharisma japonicum (Protozoa, Ciliophora, Heterotrichida). Salvini M, et al. **FEMS Microbiol Lett** 1997 Apr 1;149(1):93–8
Characterization of the H1.5 gene completes the set of human H1 subtype genes. Albig W, et al. **Gene** 1997 Jan 15; 184(2):141–8
An H3 coding region regulatory element is common to all four nucleosomal classes of mouse histone–encoding genes. Bowman TL, et al. **Gene** 1996 Oct 17;176(1–2):1–8
Characterization of the two H1(zero)–encoding genes from Xenopus laevis. Brocard MP, et al. **Gene** 1997 Apr 11; 189(1):127–34
Cloning of the cDNA encoding a novel subtype of histone H1. Yamamoto T, et al. **Gene** 1996 Sep 16;173(2):281–5
A sex–influenced modifier in Drosophila that affects a broad spectrum of target loci including the histone repeats. Bhadra U, et al. **Genetics** 1997 Jul;146(3):903–17
Mutations in the SPT4, SPT5, and SPT6 genes alter transcription of a subset of histone genes in Saccharomyces cerevisiae. Compagnone–Post PA, et al. **Genetics** 1996 Aug; 143(4):1543–54
Influences of histone stoichiometry on the target site preference of retrotransposons Ty1 and Ty2 in Saccharomyces cerevisiae. Rinckel LA, et al. **Genetics** 1996 Mar;142(3):761–76
Characterization of the mouse histone gene cluster on chromosome 13: 45 histone genes in three patches spread over 1Mb. Wang ZF, et al. **Genome Res** 1996 Aug; 6(8):688–701
Characterization of the 55–kb mouse histone gene cluster on chromosome 3. Wang ZF, et al. **Genome Res** 1996 Aug; 6(8):702–14
Human histone gene organization: nonregular arrangement within a large cluster. Albig W, et al. **Genomics** 1997 Mar 1;40(2):314–22
Histones: genetic diversity and tissue–specific gene expression. Doenecke D, et al. **Histochem Cell Biol** 1997 Jan;107(1):1–10 (141 ref.)
Expression of the mouse testicular histone gene H1t during spermatogenesis. Drabent B, et al. **Histochem Cell Biol** 1996 Aug;106(2):247–51

HISTONES

A solitary human H3 histone gene on chromosome 1. Albig W, et al. **Hum Genet** 1996 Apr;97(4):486–91

Organization and expression of the developmentally regulated H1(o) histone gene in vertebrates. Doenecke D, et al. **Int J Dev Biol** 1996 Feb;40(1):395–401 (87 ref.)

Structural and functional properties of linker histones and high mobility group proteins in polytene chromosomes. Wiśniewski JR, et al. **Int J Dev Biol** 1996 Feb;40(1):177–87 (83 ref.)

Expression patterns of bone-related proteins during osteoblastic differentiation in MC3T3-E1 cells. Choi JY, et al. **J Cell Biochem** 1996 Jun 15;61(4):609–18

Binding of nuclear proteins to a conserved histone H1t promoter element suggests an important role in testis-specific transcription. vanWert JM, et al. **J Cell Biochem** 1996 Mar 1;60(3):348–62

An approximately half set of histone genes is enough for cell proliferation and a lack of several histone variants causes protein pattern changes in the DT40 chicken B cell line. Takami Y, et al. **J Mol Biol** 1997 Jan 31;265(4):394–408

The mouse histone H1 genes: gene organization and differential regulation. Wang ZF, et al. **J Mol Biol** 1997 Aug 8;271(1):124–38

The sperm nuclear basic proteins (SNBPs) of the sponge Neofibularia nolitangere: implications for the molecular evolution of SNBPs. Ausió J, et al. **J Mol Evol** 1997 Jul; 45(1):91–6

The sequence and organization of the core histone H3 and H4 genes in the early branching amitochondriate protist Trichomonas vaginalis. Marinets A, et al. **J Mol Evol** 1996 Dec;43(6):563–71

Parallel origins of the nucleosome core and eukaryotic transcription from Archaea. Ouzounis CA, et al. **J Mol Evol** 1996 Feb;42(2):234–9

The evolution of the differentiation-specific histone H1 gene basal promoter. Peretti M, et al. **J Mol Evol** 1997 Feb; 44(2):128–34

Sequence simplicity and evolution of the 3' untranslated region of the histone H1o gene. Ponte I, et al. **J Mol Evol** 1996 Aug;43(2):125–34

Sperm nuclear basic proteins (SNBPs) of agnathans and chondrichthyans: variability and evolution of sperm proteins in fish. Saperas N, et al. **J Mol Evol** 1997 Apr; 44(4):422–31

Common features of analogous replacement histone H3 genes in animals and plants. Waterborg JH, et al. **J Mol Evol** 1996 Sep;43(3):194–206

Interferon regulatory factors: growth control and histone gene regulation—it's not just interferon anymore. Vaughan PS, et al. **J Mol Med** 1997 May;75(5):348–59 (128 ref.)

A fluorescence in situ hybridisation study of the regulation of histone mRNA levels during the cell cycle of Trypanosoma brucei. Ersfeld K, et al. **Mol Biochem Parasitol** 1996 Oct 30;81(2):201–9

Tandem arrangement of two genes encoding kinetoplast-associated H1 histone-like proteins. Hines JC, et al. **Mol Biochem Parasitol** 1997 Oct;89(1):41–9

Histone H1 expression varies during the Leishmania major life cycle. Noll TM, et al. **Mol Biochem Parasitol** 1997 Feb; 84(2):215–27

The gene for histone H2A from the insect trypanosome Crithidia fasciculata. Tittawella I, et al. **Mol Biochem Parasitol** 1997 Sep;88(1–2):259–62

Regulation of transcription of the testis-specific histone H1t gene by multiple promoter elements. Grimes SR Jr, et al. **Mol Biol Rep** 1997 Aug;24(3):175–84 (70 ref.)

Human La protein: a stabilizer of histone mRNA. McLaren RS, et al. **Mol Cell Biol** 1997 Jun;17(6):3028–36

The five cleavage-stage (CS) histones of the sea urchin are encoded by a maternally expressed family of replacement histone genes: functional equivalence of the CS H1 and frog H1M (B4) proteins. Mandl B, et al. **Mol Cell Biol** 1997 Mar;17(3):1189–200

Monocistronic transcription is the physiological mechanism of sea urchin embryonic histone gene expression. Mauron A, et al. **Mol Cell Biol** 1981 Jul;1(7):661–71

Hir1p and Hir2p function as transcriptional corepressors to regulate histone gene transcription in the Saccharomyces cerevisiae cell cycle. Spector MS, et al. **Mol Cell Biol** 1997 Feb;17(2):545–52

Phylogenetic utility of histone H3 intron sequences in the perennial relatives of soybean (Glycine: Leguminosae). Doyle JJ, et al. **Mol Phylogenet Evol** 1996 Dec;6(3):438–47

Expression of cell cycle genes during Sesbania rostrata stem nodule development. Goormachtig S, et al. **Mol Plant Microbe Interact** 1997 Apr;10(3):316–25

Binding of NF1 to the MMTV promoter in nucleosomes: influence of rotational phasing, translational positioning and histone H1. Eisfeld K, et al. **Nucleic Acids Res** 1997 Sep 15;25(18):3733–42

3' Processing and termination of mouse histone transcripts synthesized in vitro by RNA polymerase II. Gu X, et al. **Nucleic Acids Res** 1996 Oct 1;24(19):3797–805

Identification of cis-elements regulating the expression of an Arabidopsis histone H4 gene. Chaubet N, et al. **Plant J** 1996 Sep;10(3):425–35

A drought-stress-inducible histone gene in Arabidopsis thaliana is a member of a distinct class of plant linker histone variants. Ascenzi R, et al. **Plant Mol Biol** 1997 Jul; 34(4):629–41

Structural characteristics of two wheat histone H2A genes encoding distinct types of variants and functional differences in their promoter activity. Huh GH, et al. **Plant Mol Biol** 1997 Mar;33(5):791–802

Protein complexes binding to cis elements of the plant histone gene promoters: multiplicity, phosphorylation and cell cycle alteration. Shen WH, et al. **Plant Mol Biol** 1997 Feb; 33(3):367–79

The mouse histone H2a gene contains a small element that facilitates cytoplasmic accumulation of intronless gene transcripts and of unspliced HIV-1-related mRNAs. Huang Y, et al. **Proc Natl Acad Sci U S A** 1997 Sep 16; 94(19):10104–9

An unusual histone H3 specific for early macronuclear development in Euplotes crassus. Jahn CL, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1332–7

Enhancer blocking activity located near the 3' end of the sea urchin early H2A histone gene. Palla F, et al. **Proc Natl Acad Sci U S A** 1997 Mar 18;94(6):2272–7

Length suppression in histone messenger RNA 3'-end maturation: processing defects of insertion mutant premessenger RNAs can be compensated by insertions into the U7 small nuclear RNA. Scharl LC, et al. **Proc Natl Acad Sci U S A** 1996 Dec 10;93(25):14659–64

Histone underacetylation is an ancient component of mammalian X chromosome inactivation. Wakefield MJ, et al. **Proc Natl Acad Sci U S A** 1997 Sep 2;94(18):9665–8

A likely histone H2A.F/Z variant in Saccharomyces cerevisiae. Jackson JD, et al. **Trends Biochem Sci** 1996 Dec; 21(12):466–7

Histone H1 in Saccharomyces cerevisiae: a double mystery solved? [see comments] Landsman D. **Trends Biochem Sci** 1996 Aug;21(8):287–8. Comment in: Trends Biochem Sci 1997 Feb;22(2):49.

H1 histone in yeast [letter; comment] Zlatanova J. **Trends Biochem Sci** 1997 Feb;22(2):49. Comment on: Trends Biochem Sci 1996 Aug;21(8):287–8.

Histone H1 in Saccharomyces cerevisiae. Ushinsky SC, et al. **Yeast** 1997 Feb;13(2):151–61

[Transcription factors involved in histone gene regulation] Iwabuchi M. **Tanpakushitsu Kakusan Koso** 1996 Jun;41(8 Suppl):1226–36 (35 ref.) **(Jpn)**

IMMUNOLOGY

Primary pulmonary hypertension: immunogenetic response to high-mobility group (HMG) proteins and histone. Morse JH, et al. **Clin Exp Immunol** 1996 Nov;106(2):389–95

Histones interact with immunoglobulins and give them polyspecificity. Abakushin DN, et al. **Immunol Lett** 1996 Nov;53(2–3):95–9

Mapping of the linear antigenic determinants from the Leishmania infantum histone H2A recognized by sera from dogs with leishmaniasis. Soto M, et al. **Immunol Lett** 1995 Dec;48(3):209–14

A human monoclonal IgM lambda specific for an epitope shared by the 200 kDa neurofilament protein, histones and ribosomal proteins. Brindel I, et al. **J Autoimmun** 1995 Dec; 8(6):915–29

Antisera directed against anti-histone H4 antibodies recognize linker histones. Novel immunological probes to detect histone interactions. Thiriet C, et al. **J Biol Chem** 1997 Jul 25;272(30):18740–5

Anti-(DNA-histone) antibodies in active lupus nephritis. Suenaga R, et al. **J Rheumatol** 1996 Feb;23(2):279–84

Autoantibodies to nucleosomes and histone-DNA complexes. Monestier M. **Methods** 1997 Jan;11(1):36–43

Autoantibody to the nucleosome subunit (H2A-H2B)-DNA is an early and ubiquitous feature of lupus-like conditions. Burlingame RW, et al. **Mol Biol Rep** 1996;23(3–4):159–66 (46 ref.)

[Two cases of lupus nephritis having a high titer of anti-(histone-DNA) complex antibody without IgG anti-dsDNA antibody] Mizushima N, et al. **Rinsho Byori** 1996 Jun;44(6):585–9 (Eng. Abstr.) **(Jpn)**

ISOLATION & PURIFICATION

Fixation-dependent organization of core histones following DNA fluorescent in situ hybridization. Hendzel MJ, et al. **Chromosoma** 1997 Jul;106(2):114–23

One- and two-dimensional histone separations in acidic gels: usefulness of methylene blue-driven photopolymerization. Rabilloud T, et al. **Electrophoresis** 1996 Jan;17(1):67–73

The chicken lysozyme gene 5' MAR and the Drosophila histone SAR are electroelutable from encapsulated and digested nuclei. Hempel K, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1459–69

Isolation of histones and related chromatin structures from spermatozoa nuclei of a dasyurid marsupial, Sminthopsis crassicaudata. Soon LL, et al. **J Exp Zool** 1997 Aug 1; 278(5):322–32

Fine resolution of histones by two-dimensional polyacrylamide gel electrophoresis: developmental implications. Dimitrov SI, et al. **Methods** 1997 May; 12(1):57–61

Preparation of nucleosomal templates for transcription in vitro. Studitsky VM, et al. **Methods Enzymol** 1996; 274:246–56

Reconstruction of transcriptionally active and silent chromatin. Ura K, et al. **Methods Enzymol** 1996;274:257–71

Purification and characterization of a histone-like protein from the Archaeal isolate AN1, a member of the Thermococcales. Ronimus RS, et al. **Mol Microbiol** 1996 Apr;20(1):77–86

The histones of Plasmodium falciparum: identification, purification and a possible role in the pathology of malaria. Longhurst HJ, et al. **Parasitology** 1997 May;114 (Pt 5):413–9

METABOLISM

cDNA cloning and characterization of buforin I, an antimicrobial peptide: a cleavage product of histone H2A. Kim HS, et al. **Biochem Biophys Res Commun** 1996 Dec 13;229(2):381–7

Major role of the histones H3-H4 in the folding of the chromatin fiber. Moore SC, et al. **Biochem Biophys Res Commun** 1997 Jan 3;230(1):136–9

Differential effect of alkyl chain-modified ether lipids on protein kinase C autophosphorylation and histone phosphorylation. Gil C, et al. **Biochem Pharmacol** 1996 Dec 24;52(12):1843–7

Histones, nucleosomes and the roles of chromatin structure in transcriptional control. Wolffe AP. **Biochem Soc Trans** 1997 May;25(2):354–8 (22 ref.)

Use of the transglutaminase reaction to study the dissociation of histone N-terminal tails from DNA in nucleosome core particles. Ballestar E, et al. **Biochemistry** 1997 May 20; 36(20):5963–9

Histones in transit: cytosolic histone complexes and diacetylation of H4 during nucleosome assembly in human cells. Chang L, et al. **Biochemistry** 1997 Jan 21;36(3):469–80

Site-directed cleavage of DNA by a linker histone--Fe(II) EDTA conjugate: localization of a globular domain binding site within a nucleosome. Hayes JJ. **Biochemistry** 1996 Sep 17;35(37):11931–7

Influence of histone acetylation on the modification of cytoplasmic and nuclear proteins by ADP-ribosylation in response to free radicals. Böhm L, et al. **Biochim Biophys Acta** 1997 Mar 15;1334(2–3):149–54

Isolation and identification of a proteinase from calf thymus that cleaves poly(ADP-ribose) polymerase and histone H1. Buki KG, et al. **Biochim Biophys Acta** 1997 Mar 7; 1338(1):100–6

Turnover of histone acetyl groups during sea urchin early development is not required for histone, heat shock and actin gene transcription. Jasinskas A, et al. **Biochim Biophys Acta** 1997 Mar 20;1351(1–2):168–80

Mechanisms of stabilizing nucleosome structure. Study of dissociation of histone octamer from DNA. Khrapunov SN, et al. **Biochim Biophys Acta** 1997 Mar 20; 1351(1–2):213–22

Histone acetylation: a possible mechanism for the inheritance of cell memory at mitosis. Jeppesen P. **Bioessays** 1997 Jan; 19(1):67–74 (50 ref.)

Histone-binding domains in a human nuclear autoantigenic sperm protein. Batova I, et al. **Biol Reprod** 1996 Jun; 54(6):1238–44

Histone H1 preferentially binds to superhelical DNA molecules of higher compaction [see comments] Ivanchenko M, et al. **Biophys J** 1997 Mar;72(3):1388–95. Comment in: Biophys J 1997 Mar;72(3):983–4.

Linker histones' role revisited [comment] Prunell A. **Biophys J** 1997 Mar;72(3):983–4 (15 ref.). Comment on: Biophys J 1997 Mar;72(3):1388–95.

The transcriptional coactivators p300 and CBP are histone acetyltransferases. Ogryzko VV, et al. **Cell** 1996 Nov 29; 87(5):953–9

The major cytoplasmic histone acetyltransferase in yeast: links to chromatin replication and histone metabolism. Parthun MR, et al. **Cell** 1996 Oct 4;87(1):85–94

What's up and down with histone deacetylation and transcription? Pazin MJ, et al. **Cell** 1997 May 2;89(3):325–8 (20 ref.)

Histone acetylation and chromatin assembly: a single escort, multiple dances? Roth SY, et al. **Cell** 1996 Oct 4;87(1):5–8 (20 ref.)

Nucleosome assembly by a complex of CAF-1 and acetylated histones H3/H4. Verreault A, et al. **Cell** 1996 Oct 4; 87(1):95–104

Interactions of nickel(II) with histones: enhancement of 2'-deoxyguanosine oxidation by Ni(II) complexes with CH3CO-Cys-Ala-Ile-His-NH2, a putative metal binding sequence of histone H3. Bal W, et al. **Chem Res Toxicol** 1996 Mar;9(2):535–40

Glutamate dehydrogenase covalently binds to a reactive metabolite of acetaminophen. Halmes NC, et al. **Chem Res Toxicol** 1996 Mar;9(2):541–6

Influence of core histone acetylation on SV40 minichromosome replication in vitro. Alexiadis V, et al. **Chromosoma** 1997 Apr;105(6):324–31

Histone H4 acetylation in plant heterochromatin is altered during the cell cycle. Belyaev ND, et al. **Chromosoma** 1997 Aug;106(3):193–7

Differences of histone H4 acetylation and replication timing between A and B chromosomes of brachycome dichromosomatica. Houben A, et al. **Chromosome Res** 1997 Jun;5(4):233–7

Hanging on to histones. Chromatin. Wolffe AP, et al. **Curr Biol** 1996 Mar 1;6(3):234–7 (9 ref.)

Inhibition of IL-8 gene expression in Caco-2 cells by compounds which induce histone hyperacetylation. Huang N, et al. **Cytokine** 1997 Jan;9(1):27–36

DNA binding fluorochromes as probes for histone H1-chromatin interactions in situ. Loborg H, et al. **Cytometry** 1997 Jul 1;28(3):212–9

X-Inactivation and histone H4 acetylation in embryonic stem

cells. Keohane AM, et al. **Dev Biol** 1996 Dec 15; 180(2):618–30

Histone acetylation influences thyroid hormone and retinoic acid–mediated gene expression. Garcia–Villalba P, et al. **DNA Cell Biol** 1997 Apr;16(4):421–31

Deoxyribonuclease I–facilitated electrotransfer of protein–DNA complexes from electrophoretic gels to nitrocellulose membranes. Ivanchenko M, et al. **Electrophoresis** 1997 Jan;18(1):72–3

Remodeling somatic nuclei in Xenopus laevis egg extracts: molecular mechanisms for the selective release of histones H1 and H1(0) from chromatin and the acquisition of transcriptional competence. Dimitrov S, et al. **EMBO J** 1996 Nov 1;15(21):5897–906

Role of histone tails in nucleosome remodeling by Drosophila NURF. Georgel PT, et al. **EMBO J** 1997 Aug 1; 16(15):4717–26

Remodeling the chromatin structure of a nucleosome array by transcription factor–targeted trans–displacement of histones. Owen–Hughes T, et al. **EMBO J** 1996 Sep 2; 15(17):4702–12

Stable co–occupancy of transcription factors and histones at the HIV–1 enhancer. Steger DJ, et al. **EMBO J** 1997 May 1;16(9):2463–72

Differential association of HMG1 and linker histones B4 and H1 with dinucleosomal DNA: structural transitions and transcriptional repression. Ura K, et al. **EMBO J** 1996 Sep 16;15(18):4959–69

Histone acetylation: influence on transcription, nucleosome mobility and positioning, and linker histone–dependent transcriptional repression. Ura K, et al. **EMBO J** 1997 Apr 15;16(8):2096–107

Vanadate triggers the transition from chromosome condensation to decondensation in a mitotic mutant (tsTM13) inactivation of p34cdc2/H1 kinase and dephosphorylation of mitosis–specific histone H3. Ajiro K, et al. **Eur J Biochem** 1996 Nov 1;241(3):923–30

Selective interaction between parathymosin and histone H1. Kondili K, et al. **Eur J Biochem** 1996 Nov 15;242(1):67–74

Different strategies of X–inactivation in germinal and somatic cells: histone H4 underacetylation does not mark the inactive X chromosome in the mouse male germline. Armstrong SJ, et al. **Exp Cell Res** 1997 Feb 1; 230(2):399–402

Preferential condensation of SAR–DNA by histone H1 and its SPKK containing octapeptide repeat motif. Khadake JR, et al. **FEBS Lett** 1997 Jan 3;400(2):193–6

Involvement of histone hyperacetylation in triggering DNA fragmentation of rat thymocytes undergoing apoptosis. Lee E, et al. **FEBS Lett** 1996 Oct 21;395(2–3):183–7

Study of in vitro phosphorylation of histones H3, H4 and of the non–acetylated and acetylated tetramers (H3–H4)2. Martinage A, et al. **FEBS Lett** 1981 Nov 2;134(1):107–10

Gcn5p is involved in the acetylation of histone H3 in nucleosomes. Ruiz–García AB, et al. **FEBS Lett** 1997 Feb 17;403(2):186–90

The 18–kDa lectin–binding protein of Chlamydia trachomatis is different from the 18–kDa histone–like protein. Swanson AF, et al. **FEMS Microbiol Lett** 1996 Apr 1; 137(2–3):189–92

Activators and repressors: making use of chromatin to regulate transcription. Wolffe AP, et al. **Genes Cells** 1997 May;2(5):291–302 (103 ref.)

Yeast Gcn5 functions in two multisubunit complexes to acetylate nucleosomal histones: characterization of an Ada complex and the SAGA (Spt/Ada) complex. Grant PA, et al. **Genes Dev** 1997 Jul 1;11(13):1640–50

The protein that binds the 3' end of histone mRNA: a novel RNA–binding protein required for histone pre–mRNA processing. Wang ZF, et al. **Genes Dev** 1996 Dec 1; 10(23):3028–40

Progression into the first meiotic division is sensitive to histone H2A–H2B dimer concentration in Saccharomyces cerevisiae. Tsui K, et al. **Genetics** 1997 Mar;145(3):647–59

The pattern of histone H4 acetylation on the X chromosome during spermatogenesis of the desert locust Schistocerca gregaria. Wolf KW, et al. **Genome** 1996 Oct;39(5):854–65

The oxygen effect in permeabilized and histone–depleted cells: an enhanced OER for DNA double–strand breaks, compared to single–strand breaks, is abolished by soluble scavengers. Nygren J, et al. **Int J Radiat Biol** 1997 Aug; 72(2):163–70

The chlamydial EUO gene encodes a histone H1–specific protease. Kaul R, et al. **J Bacteriol** 1997 Sep; 179(18):5928–34

The involvement of the histone fold motifs in the mutual interaction between human TAF(II)80 and TAF(II)22. Bando M, et al. **J Biochem (Tokyo)** 1997 Mar;121(3):591–7

Histone H1b phosphorylation is dependent upon ongoing transcription and replication in normal and ras–transformed mouse fibroblasts. Chadee DN, et al. **J Biol Chem** 1997 Mar 28;272(13):8113–6

A putative DNA binding surface in the globular domain of a linker histone is not essential for specific binding to the nucleosome. Hayes JJ, et al. **J Biol Chem** 1996 Oct 18; 271(42):25817–22

Binding of human minichromosome maintenance proteins with histone H3. Ishimi Y, et al. **J Biol Chem** 1996 Sep 27;271(39):24115–22

H1–mediated repression of transcription factor binding to a stably positioned nucleosome. Juan LJ, et al. **J Biol Chem** 1997 Feb 7;272(6):3635–40

A mouse histone H1 variant, H1b, binds preferentially to a regulatory sequence within a mouse H3.2 replication–dependent histone gene. Kaludov NK, et al. **J Biol Chem** 1997 Jun 13;272(24):15120–7

Phosphorylation of linker histones by a protein kinase A–like activity in mitotic nuclei. Sweet MT, et al. **J Biol Chem** 1997 Jan 10;272(2):916–23

Apoptosis induced by gliotoxin is preceded by phosphorylation of histone H3 and enhanced sensitivity of chromatin to nuclease digestion. Waring P, et al. **J Biol Chem** 1997 Jul 18;272(29):17929–36

Histone modifications, chromatin structure, and the nuclear matrix. Davie JR. **J Cell Biochem** 1996 Aug;62(2):149–57 (39 ref.)

Effects of histone acetylation on chromatin structure. Gavazzo P, et al. **J Cell Biochem** 1997 Mar 1;64(3):466–75

Nuclear transport of H1 histones meets the criteria of a nuclear localization signal–mediated process. Kurz M, et al. **J Cell Biochem** 1997 Mar 15;64(4):573–8

Developmental and tissue expression patterns of histone macroH2A1 subtypes. Pehrson JR, et al. **J Cell Biochem** 1997 Apr;65(1):107–13

Phosphorylation of linker histone is associated with transcriptional activation in a normally silent nucleus. Sweet MT, et al. **J Cell Biol** 1996 Dec;135(5):1219–28

Chromatin modifications during oogenesis in the mouse: removal of somatic subtypes of histone H1 from oocyte chromatin occurs post–natally through a post–transcriptional mechanism. Clarke HJ, et al. **J Cell Sci** 1997 Feb;110 (Pt 4):477–87

Chromatin organization in the homogeneously staining regions of a methotrexate–resistant mouse cell line: interspersion of inactive and active chromatin domains distinguished by acetylation of histone H4. Nicol L, et al. **J Cell Sci** 1996 Sep;109 (Pt 9):2221–8

Evidence that the endogenous histone H1 phosphatase in HeLa mitotic chromosomes is protein phosphatase 1, not protein phosphatase 2A. Paulson JR, et al. **J Cell Sci** 1996 Jun;109 (Pt 6):1437–47

High–sensitivity mass spectrometry for analysis of posttranslational modifications. Takao T, et al. **J Protein Chem** 1997 Jul;16(5):409–13

The cyclin encoded by Kaposi's sarcoma–associated herpesvirus stimulates cdk6 to phosphorylate the retinoblastoma protein and histone H1. Godden–Kent D, et al. **J Virol** 1997 Jun;71(6):4193–8

Binding affinity of proteins to hsp90 correlates with both hydrophobicity and positive charges. A surface plasmon resonance study. Csermely P, et al. **Life Sci** 1997; 61(4):411–8

Chromosomal mapping of core histone acetylation by immunoselection. Crane–Robinson C, et al. **Methods** 1997 May;12(1):48–56

Analysis of in vivo nucleosome positions by determination of nucleosome–linker boundaries in crosslinked chromatin. Fragoso G, et al. **Methods** 1997 Feb;11(2):246–52

Nuclear matrix, dynamic histone acetylation and transcriptionally active chromatin. Davie JR. **Mol Biol Rep** 1997 Aug;24(3):197–207 (159 ref.)

Occurrence of histone–related oxalate binding in rat liver nucleus. Selvam R, et al. **Mol Cell Biochem** 1996 Mar 23; 156(2):93–100

Alleviation of histone H1–mediated transcriptional repression and chromatin compaction by the acidic activation region in chromosomal protein HMG–14. Ding HF, et al. **Mol Cell Biol** 1997 Oct;17(10):5843–55

Nucleosome binding by the polymerase I transactivator upstream binding factor displaces linker histone H1. Kermekchiev M, et al. **Mol Cell Biol** 1997 Oct; 17(10):5833–42

Immunoelectron microscopical distribution of histones H2B and H3 and protamines during human spermiogenesis. Prigent Y, et al. **Mol Hum Reprod** 1996 Dec;2(12):929–35

Purification of recombinant Chlamydia trachomatis histone H1–like protein Hc2, and comparative functional analysis of Hc2 and Hc1. Pedersen LB, et al. **Mol Microbiol** 1996 Apr;20(2):295–311

Somatic histone H1 microinjected into fertilized mouse eggs is transported into the pronuclei but does not disrupt subsequent preimplantation development. Lin P, et al. **Mol Reprod Dev** 1996 Jun;44(2):185–92

Stage–dependent redistributions of acetylated histones in nuclei of the early preimplantation mouse embryo. Stein P, et al. **Mol Reprod Dev** 1997 Aug;47(4):421–9

Nucleosomes and histones are present in glomerular deposits in human lupus nephritis. van Bruggen MC, et al. **Nephrol Dial Transplant** 1997 Jan;12(1):57–66

Competition between HMG–I(Y), HMG–1 and histone H1 on four–way junction DNA. Hill DA, et al. **Nucleic Acids Res** 1997 Sep 1;25(17):3523–31

Large scale preparation of positively supercoiled DNA using the archaeal histone HMf. LaMarr WA, et al. **Nucleic Acids Res** 1997 Apr 15;25(8):1660–1

The 96 kDa protein kinase activated by oncogenic Ras in Xenopus egg extracts is also activated by constitutively active Mek: activation requires serine/threonine phosphorylation. Pan BT, et al. **Oncogene** 1997 Apr 10; 14(14):1653–60

A preparative method for crosslinking proteins to DNA in nuclei by single–pulse UV laser irradiation. Mutskov V, et al. **Photochem Photobiol** 1997 Jul;66(1):42–5

Interaction of the histone (H3–H4)2 tetramer of the nucleosome with positively supercoiled DNA minicircles: Potential flipping of the protein from a left– to a right–handed superhelical form. Hamiche A, et al. **Proc Natl Acad Sci U S A** 1996 Jul 23;93(15):7588–93

Increased histone H1 phosphorylation and relaxed chromatin structure in Rb–deficient fibroblasts. Herrera RE, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11510–5

Nucleosome packaging and nucleosome positioning of genomic DNA. Lowary PT, et al. **Proc Natl Acad Sci U S A** 1997 Feb 18;94(4):1183–8

Yeast chromatin reconstitution system using purified yeast core histones and yeast nucleosome assembly protein–1. Pilon J, et al. **Protein Expr Purif** 1997 Jun;10(1):132–40

Opening the way to gene activity [news] Pennisi E. **Science** 1997 Jan 10;275(5297):155–7

Linker histones, DNA's protein custodians, gain new respect [news; comment] [published erratum appears in Science 1997 Jan 10;275(5297):145] Pennisi E. **Science** 1996 Oct 25; 274(5287):503–4. Comment on: Science 1996 Oct 25;274(5287):614–7.

Binding of the von Willebrand factor A1 domain to histone. Ward CM, et al. **Thromb Res** 1997 Jun 15;86(6):469–77

Where is the globular domain of linker histone located on the nucleosome? Crane–Robinson C. **Trends Biochem Sci** 1997 Mar;22(3):75–7 (22 ref.)

Histone acetylation: a gateway to transcriptional activation. Sternglanz R. **Trends Biochem Sci** 1996 Oct;21(10):357–8

Histone acetylation: chromatin in action. Wade PA, et al. **Trends Biochem Sci** 1997 Apr;22(4):128–32 (30 ref.)

Histones as a target for influenza virus matrix protein M1. Zhirnov OP, et al. **Virology** 1997 Sep 1;235(2):302–10

[Chemical modification of histones during cell growth and differentiation] Ajiro K. **Tanpakushitsu Kakusan Koso** 1997 Jul;42(9):1375–85 (67 ref.) **(Jpn)**

[Interaction of influenza virus matrix protein M1 with histones] Zhirnov OP, et al. **Mol Biol (Mosk)** 1997 Jan–Feb; 31(1):137–43 **(Rus)**

[Effect of adenosine triphosphate on the cleavage of H1 histones in nuclei of rat spleen and liver] Tiulenev VI, et al. **Ukr Biokhim Zh** 1996 Nov–Dec;68(6):23–9 (Eng. Abstr.) **(Rus)**

[Change in histone proteins in rat liver chromatin during exposure of the animal to functional stress] Panin LE, et al. **Vopr Med Khim** 1996 Oct–Dec;42(4):295–300 (Eng. Abstr.) **(Rus)**

PHARMACOKINETICS

[Comparative study of the transport of exogenous radioactive histone after different methods of administration] Gladysheva OS, et al. **Biull Eksp Biol Med** 1994 May; 117(5):484–6 **(Rus)**

PHARMACOLOGY

Histone H1 suppresses tumor growth of leukemia cells in vitro, ex vivo and in an animal model suggesting extracellular functions of histones. Class R, et al. **Am J Clin Oncol** 1996 Oct;19(5):522–31

Reduction of histone cytotoxicity by the Alzheimer beta–amyloid peptide precursor. Currie JR, et al. **Biochim Biophys Acta** 1997 Mar 1;1355(3):248–58

Histone H4 stimulates glucose uptake through the insulin receptor. Louters LL, et al. **Biochimie** 1996;78(1):39–45

Protein/amphipathic polyamine complexes enable highly efficient transfection with minimal toxicity. Budker V, et al. **Biotechniques** 1997 Jul;23(1):139, 142–7

Effect of histone–H2A (H–H2A), platelet activating factor (PAF) and pregnancy specific protein B (PSPB) on secretion of prostaglandins E and F2 alpha (PGE; PGF2 alpha) by bovine endometrium and H–H2A on basal secretion of luteinizing hormone (LH) by bovine pituitary cells in vitro. Weems CW, et al. **Chin J Physiol** 1996; 39(3):147–54 (53 ref.)

Modulation of central nervous system metabolism by macromolecules: effects of albumin and histones on glucose oxidation by synaptosomes. Tildon JT, et al. **J Assoc Acad Minor Phys** 1996;7(2):47–52

The H3/H4 tetramer blocks transcript elongation by RNA polymerase II in vitro. Chang CH, et al. **J Biol Chem** 1997 Sep 12;272(37):23427–34

Histone H1 enhances the DNA binding activity of the transcription factor EmBP–1. Schultz TF, et al. **J Biol Chem** 1996 Oct 18;271(42):25742–5

Age–dependent prolactin–releasing activity of nucleoproteins. Brown OA, et al. **Mech Ageing Dev** 1996 Aug 15;89(2):103–11

PHYSIOLOGY

Remodeling chromatin structures for transcription: what happens to the histones? Steger DJ, et al. **Bioessays** 1996 Nov;18(11):875–84 (69 ref.)

What do linker histones do in chromatin? Wolffe AP, et al. **Bioessays** 1997 Mar;19(3):249–55 (70 ref.)

Molecular model for telomeric heterochromatin in yeast. Grunstein M. **Curr Opin Cell Biol** 1997 Jun;9(3):383–7 (42 ref.)

H1 binding unwinds DNA. Evidence from topological assays. Ivanchenko M, et al. **J Biol Chem** 1996 Dec 20; 271(51):32580–5

Histone H1 variants as sperm–specific nuclear proteins of Rana catesbeiana, and their role in maintaining a unique condensed state of sperm chromatin. Itoh T, et al.

HISTONES

Mol Reprod Dev 1997 Jun;47(2):181–90

Histone acetylation in chromatin structure and transcription. Grunstein M. **Nature** 1997 Sep 25;389(6649):349–52 (75 ref.)

Somatic linker histones cause loss of mesodermal competence in Xenopus. Steinbach OC, et al. **Nature** 1997 Sep 25; 389(6649):395–9

Moderate increase in histone acetylation activates the mouse mammary tumor virus promoter and remodels its nucleosome structure. Bartsch J, et al.
Proc Natl Acad Sci U S A 1996 Oct 1;93(20):10741–6

What determines the folding of the chromatin fiber? van Holde K, et al. **Proc Natl Acad Sci U S A** 1996 Oct 1; 93(20):10548–55 (68 ref.)

RADIATION EFFECTS

[The effect of small doses of gamma irradiation on the relative content of H1 and H1(0) histones in the nuclei of the neurons in the rat cerebral cortex] Protas AF.
Radiats Biol Radioecol 1997 May–Jun;37(3):324–7 (Eng. Abstr.) **(Rus)**

HISTOPLASMA

Isolation and characterization of a calmodulin–encoding cDNA from the pathogenic fungus Histoplasma capsulatum. el–Rady J, et al. **J Med Vet Mycol** 1996 Jun–Jul;34(3):163–9

DRUG EFFECTS

Hypothesis on the mechanism of resistance to fluconazole in Histoplasma capsulatum. Wheat J, et al.
Antimicrob Agents Chemother 1997 Feb;41(2):410–4

ENZYMOLOGY

An AP1 element is involved in transcriptional regulation of delta9–desaturase gene of Histoplasma capsulatum. Tosco A, et al. **Biochem Biophys Res Commun** 1997 Jan 13; 230(2):457–61

Extracellular proteolytic enzyme activity of Histoplasma capsulatum var. duboisii. Muotoe–Okafor FA, et al.
Mycopathologia 1996;133(3):129–33

GENETICS

Phenotypic variation and persistence of Histoplasma capsulatum yeasts in host cells. Eissenberg LG, et al.
Infect Immun 1996 Dec;64(12):5310–4

GROWTH & DEVELOPMENT

An aberrant variant of Histoplasma capsulatum var. capsulatum. Sutton DA, et al. **J Clin Microbiol** 1997 Mar; 35(3):734–5

Activation of human macrophage fungistatic activity against Histoplasma capsulatum upon adherence to type 1 collagen matrices. Newman SL, et al. **J Immunol** 1997 Feb 15; 158(4):1779–86

IMMUNOLOGY

Recombinant Coccidioides immitis complement–fixing antigen: detection of an epitope shared by C. immitis, Histoplasma capsulatum, and Blastomyces dermatitidis. Yang MC, et al. **Clin Diagn Lab Immunol** 1997 Jan; 4(1):19–22

Cross–reactivity in Histoplasma capsulatum variety capsulatum antigen assays of urine samples from patients with endemic mycoses. Wheat J, et al. **Clin Infect Dis** 1997 Jun;24(6):1169–71

Cellular immune responses to recombinant heat shock protein 70 from Histoplasma capsulatum. Allendoerfer R, et al.
Infect Immun 1996 Oct;64(10):4123–8

Molecular cloning and characterization of a recombinant Histoplasma capsulatum antigen for antibody–based diagnosis of human histoplasmosis. Chandrashekar R, et al. **J Clin Microbiol** 1997 May;35(5):1071–6

A protective domain of heat–shock protein 60 from Histoplasma capsulatum. Deepe GS Jr, et al.
J Infect Dis 1996 Oct;174(4):828–34

Skin and serum reactivity among humans to histoplasmin in the vicinity of a natural focus of Histoplasma capsulatum var. duboisii. Muotoe–Okafor FA, et al. **Mycopathologia** 1996;134(2):71–4

ISOLATION & PURIFICATION

Hepatic granulomas in children. A clinicopathologic analysis of 23 cases including polymerase chain reaction for histoplasma. Collins MH, et al. **Am J Surg Pathol** 1996 Mar;20(3):332–8

Confirmed histoplasmosis in an Australian dog. Mackie JT, et al. **Aust Vet J** 1997 May;75(5):362–3

Duration of fungal culture incubation in an area endemic for Histoplasma capsulatum. Hove MG, et al.
Diagn Microbiol Infect Dis 1997 May;28(1):41–3

Clinical isolates of Histoplasma capsulatum from Indianapolis, Indiana, have a recombining population structure. Carter DA, et al. **J Clin Microbiol** 1996 Oct; 34(10):2577–84

Comparison of radioimmunoassay and enzyme–linked immunoassay methods for detection of Histoplasma capsulatum var. capsulatum antigen. Durkin MM, et al.
J Clin Microbiol 1997 Sep;35(9):2252–5

An aberrant variant of Histoplasma capsulatum var. capsulatum. Sutton DA, et al. **J Clin Microbiol** 1997 Mar; 35(3):734–5

An unexpected clue: the peripheral blood smear in a patient with AIDS. Lacson EK Jr, et al. **Md Med J** 1996 Jun; 45(6):482–4

New records of Histoplasma capsulatum from wild animals in the Brazilian Amazon. Naiff RD, et al.
Rev Inst Med Trop Sao Paulo 1996 Jul–Aug;38(4):273–7

PATHOGENICITY

Virulence factors of medically important fungi. Hogan LH, et al. **Clin Microbiol Rev** 1996 Oct;9(4):469–88 (326 ref.)

PHYSIOLOGY

Cloning and analysis of an actin–encoding cDNA from the dimorphic pathogenic fungus Histoplasma capsulatum. el–Rady J, et al. **J Med Vet Mycol** 1997 May–Jun; 35(3):159–66

[Strategies of Histoplasma capsulatum for evading the cytocidal mechanisms of phagocytes] Taylor ML, et al.
Rev Invest Clin 1995 Nov–Dec;47(6):499–506 (50 ref.) (Eng. Abstr.) **(Spa)**

ULTRASTRUCTURE

Alterations to the cell wall of Histoplasma capsulatum yeasts during infection of macrophages or epithelial cells. Eissenberg LG, et al. **J Infect Dis** 1997 Jun;175(6):1538–44

HISTOPLASMIN

DIAGNOSTIC USE

Intradermic survey with histoplasmin and paracoccidioidin [letter] Barrett TV. **Rev Soc Bras Med Trop** 1996 Nov–Dec; 29(6):619–20

[An intradermal test with histoplasmin and paracoccidioidin in 2 regions of Rio Grande do Sul] Zembrzuski MM, et al. **Rev Soc Bras Med Trop** 1996 Jan–Feb;29(1):1–3 (Eng. Abstr.) **(Por)**

IMMUNOLOGY

Skin and serum reactivity among humans to histoplasmin in the vicinity of a natural focus of Histoplasma capsulatum var. duboisii. Muotoe–Okafor FA, et al. **Mycopathologia** 1996;134(2):71–4

HISTOPLASMOSIS

Colonic histoplasmosis associated with acquired immunodeficiency syndrome [letter] Warner D.
Arch Intern Med 1997 Jun 23;157(12):1393

Histoplasmosis in a nonendemic area [letter] Borja TS, et al. **Pediatr Infect Dis J** 1996 Oct;15(10):923–4

[Fungal pericarditis] Ashizawa N, et al.
Ryoikibetsu Shokogun Shirizu 1996;(13):535–8 (12 ref.) **(Jpn)**

[Histoplasmosis and AIDS (letter)] Santos J, et al.
Enferm Infecc Microbiol Clin 1997 Apr;15(4):229–30 **(Spa)**

[Histoplasmosis of the central nervous system. Report of 2 cases and review of the literature] Sosa N, et al.
Rev Med Panama 1996 Jan–May;21(1–2):18–29 (56 ref.) (Eng. Abstr.) **(Spa)**

COMPLICATIONS

Submacular surgery for subfoveal choroidal neovascular membranes in patients with presumed ocular histoplasmosis [see comments] Berger AS, et al. **Arch Ophthalmol** 1997 Aug;115(8):991–6. Comment in: Arch Ophthalmol 1997 Aug;115(8):1071–2.

Submacular surgery. New information, more questions [editorial; comment] Bressler NM. **Arch Ophthalmol** 1997 Aug;115(8):1071–2. Comment on: Arch Ophthalmol 1997 Aug;115(8):991–6.

Massive pleural effusion in diffuse granulomatous disease. Carter AB, et al. **Chest** 1997 Jul;112(1):284–8

Reactive hemophagocytic syndrome: a new presentation of disseminated histoplasmosis in patients with AIDS. Koduri PR, et al. **Clin Infect Dis** 1995 Dec;21(6):1463–5

Focal lesion of African histoplasmosis presenting as a malignant gastric ulcer. Sanguino JC, et al.
Hepatogastroenterology 1996 May–Jun;43(9):771–5

Gastrointestinal histoplasmosis in a patient with acquired immune deficiency syndrome. Raza J, et al.
Mt Sinai J Med 1996 Mar;63(2):136–40

Disseminated Histoplasma capsulatum infection presenting as genital ulcerations. Smith MB, et al. **Obstet Gynecol** 1997 May;89(5 Pt 2):842–4

Surgical removal of subfoveal choroidal neovascularization in presumed ocular histoplasmosis: stability of early visual results. Holekamp NM, et al. **Ophthalmology** 1997 Jan; 104(1):22–6

Diffuse histoplasmosis in a patient with sarcoidosis. Badesha PS, et al. **Postgrad Med J** 1997 Feb;73(856):101–3

Histoplasmosis in the Muñiz Hospital of Buenos Aires. Bava AJ. **Rev Inst Med Trop Sao Paulo** 1995 Nov–Dec; 37(6):531–5

Synchronous pulmonary cryptococcosis and histoplasmosis. Ramirez–Ortiz R, et al. **South Med J** 1997 Jul;90(7):729–32

[Histoplasmosis in immunodepressed patients: study of 18 cases seen in Uberlândia, MG] Borges AS, et al.
Rev Soc Bras Med Trop 1997 Mar–Apr;30(2):119–24 (Eng. Abstr.) **(Por)**

[Intestinal subocclusion by disseminated histoplasmosis in an HIV–positive patient] Vasen W, et al.
Gastroenterol Hepatol 1997 Jan;20(1):24–6 **(Spa)**

DIAGNOSIS

Primary esophageal histoplasmosis. Fucci JC, et al.
Am J Gastroenterol 1997 Mar;92(3):530–1

Disseminated histoplasmosis in a patient with sarcoidosis: a controversial relationship and a diagnostic dilemma. Yaseen Z, et al. **Am J Med Sci** 1997 Mar;313(3):187–90

Presumed ocular histoplasmosis in The Netherlands—an area without histoplasmosis [see comments] Suttorp–Schulten MS, et al. **Br J Ophthalmol** 1997 Jan;81(1):7–11. Comment in: Br J Ophthalmol 1997 Jan;81(1):1.

Markedly elevated serum lactate dehydrogenase levels are a clue to the diagnosis of disseminated histoplasmosis in patients with AIDS. Corcoran GR, et al.
Clin Infect Dis 1997 May;24(5):942–4

Extreme hyperferritinemia in patients infected with human immunodeficiency virus is not a highly specific marker for disseminated histoplasmosis. McKenzie SW, et al.
Clin Infect Dis 1997 Mar;24(3):519–20

Unilateral adrenal enlargement due to Histoplasma capsulatum. Swartz MA, et al. **Clin Infect Dis** 1996 Oct; 23(4):813–5

Disseminated histoplasmosis in an adopted infant from El Salvador. Troillet N, et al. **Eur J Pediatr** 1996 Jun; 155(6):474–6

Molecular cloning and characterization of a recombinant Histoplasma capsulatum antigen for antibody–based diagnosis of human histoplasmosis. Chandrashekar R, et al. **J Clin Microbiol** 1997 May;35(5):1071–6

Comparison of radioimmunoassay and enzyme–linked immunoassay methods for detection of Histoplasma capsulatum var. capsulatum antigen. Durkin MM, et al.
J Clin Microbiol 1997 Sep;35(9):2252–5

Microbiologic and histologic diagnosis of histoplasmosis in Taiwan. Kao TW, et al. **J Formos Med Assoc** 1997 May; 96(5):374–8

An unexpected clue: the peripheral blood smear in a patient with AIDS. Lacson EK Jr, et al. **Md Med J** 1996 Jun; 45(6):482–4

Disseminated histoplasmosis in a human immunodeficiency virus–infected African child. Pillay T, et al.
Pediatr Infect Dis J 1997 Apr;16(4):417–8

A 69–year–old man with cholestatic liver disease. Jain R, et al. **Semin Liver Dis** 1996 Nov;16(4):445–9

Histoplasmosis. Conces DJ Jr. **Semin Roentgenol** 1996 Jan; 31(1):14–27 (65 ref.)

[Esophageal histoplasmosis. A case report] Henry MA, et al. **Arq Gastroenterol** 1996 Jan–Mar;33(1):26–8 (Eng. Abstr.) **(Por)**

[Persistent fever, retroperitoneal adenopathies, pancytopenia, and hepatosplenomegaly in an African immigrant with HIV–1 infection] Llibre JM, et al.
Enferm Infecc Microbiol Clin 1996 Oct;14(8):499–500 **(Spa)**

DRUG THERAPY

Treatment of histoplasmosis with fluconazole in patients with acquired immunodeficiency syndrome. National Institute of Allergy and Infectious Diseases Acquired Immunodeficiency Syndrome Clinical Trials Group and Mycoses Study Group. Wheat J, et al. **Am J Med** 1997 Sep;103(3):223–32

Hypothesis on the mechanism of resistance to fluconazole in Histoplasma capsulatum. Wheat J, et al.
Antimicrob Agents Chemother 1997 Feb;41(2):410–4

Hypothermia following the intravenous administration of amphotericin B. Barlows TG 3rd, et al. **Clin Infect Dis** 1996 Nov;23(5):1187–8

Fluconazole therapy for histoplasmosis. The National Institute of Allergy and Infectious Diseases Mycoses Study Group. McKinsey DS, et al. **Clin Infect Dis** 1996 Nov; 23(5):996–1001

Histoplasmosis—a ten year follow–up. Johnston AW, et al.
J Infect 1996 Sep;33(2):111–3

Therapy of systemic histoplasmosis in immunosuppressed mice with the triazole D0870. Clemons KV, et al.
J Med Vet Mycol 1996 Jul–Aug;34(4):241–6

Disseminated histoplasmosis in children: the role of itraconazole therapy. Tobón AM, et al.
Pediatr Infect Dis J 1996 Nov;15(11):1002–8

EPIDEMIOLOGY

Presumed ocular histoplasmosis syndrome in The Netherlands [editorial; comment] Roper GJ, et al.
Br J Ophthalmol 1997 Jan;81(1):1. Comment on: Br J Ophthalmol 1997 Jan;81(1):7–11.

Prevalence of histoplasmin sensitivity in healthy adults and tuberculosis patients in southwest China. Wen FQ, et al.
J Med Vet Mycol 1996 Jun–Jul;34(3):171–4

Skin and serum reactivity among humans to histoplasmin in the vicinity of a natural focus of Histoplasma capsulatum var. duboisii. Muotoe–Okafor FA, et al. **Mycopathologia** 1996;134(2):71–4

Biological and sociocultural approaches of histoplasmosis in

the State of Guerrero, Mexico. Taylor ML, et al. **Mycoses** 1996 Sep–Oct;39(9–10):375–9

ETIOLOGY

Oral histoplasmosis associated with candidiasis in HIV–infected patients: a report of two cases. Nittayananta W, et al. **Br Dent J** 1997 Apr 26;182(8):309–12

Prospective study of histoplasmosis in patients infected with human immunodeficiency virus: incidence, risk factors, and pathophysiology. McKinsey DS, et al. **Clin Infect Dis** 1997 Jun;24(6):1195–203

Ocular histoplasmosis. McMillan TA, et al. **Int Ophthalmol Clin** 1996 Summer;36(3):179–86 (42 ref.)

Commentary on histoplasmosis. Smith RE. **Ocul Immunol Inflamm** 1997 Mar;5(1):69–70 (11 ref.)

The etiology of the presumed ocular histoplasmosis syndrome. Suttorp–Schulten MS. **Ocul Immunol Inflamm** 1997 Mar;5(1):71–2 (4 ref.)

IMMUNOLOGY

Intrapulmonary response to Histoplasma capsulatum in gamma interferon knockout mice. Allendoerfer R, et al. **Infect Immun** 1997 Jul;65(7):2564–9

Interleukin–12 modulates the protective immune response in SCID mice infected with Histoplasma capsulatum. Zhou P, et al. **Infect Immun** 1997 Mar;65(3):936–42

Modulation of immune responses in murine pulmonary histoplasmosis. Allendoerfer R, et al. **J Infect Dis** 1997 Apr; 175(4):905–14

MICROBIOLOGY

Duration of fungal culture incubation in an area endemic for Histoplasma capsulatum. Hove MG, et al. **Diagn Microbiol Infect Dis** 1997 May;28(1):41–3

Activation of human macrophage fungistatic activity against Histoplasma capsulatum upon adherence to type 1 collagen matrices. Newman SL, et al. **J Immunol** 1997 Feb 15; 158(4):1779–86

PATHOLOGY

Cytology of gastrointestinal histoplasmosis. A report of two cases with differential diagnosis and diagnostic pitfalls. Mullick SS, et al. **Acta Cytol** 1996 Sep–Oct;40(5):989–94

Adrenal histoplasmosis: diagnosis by fine–needle aspiration biopsy. Deodhare S, et al. **Diagn Cytopathol** 1997 Jul; 17(1):42–4

Colonic histoplasmosis in AIDS: unusual endoscopic findings in two cases. Halline AG, et al. **Gastrointest Endosc** 1997 Feb;45(2):199–204 (33 ref.)

Case records of the Department of Medicine, University of Mississippi Medical Center [clinical conference] Nolan RL 3rd, et al. **J Miss State Med Assoc** 1996 Feb;37(2):484–9

Localised oral histoplasmosis lesions associated with HIV infection. Warnakulasuriya KA, et al. **J Oral Pathol Med** 1997 Jul;26(6):294–6

Pathological and epidemiological aspects of skin lesions in histoplasmosis. Observations in an AIDS patient and badgers outside endemic areas of histoplasmosis. Grosse G, et al. **Zentralbl Bakteriol** 1997 Apr;285(4):531–9

[Role of guided fine needle punction in the diagnosis of deep–seated Aids–related infections. Report of a case of hepato–nodal histoplasmosis] Longchampt E, et al. **Ann Pathol** 1996 Sep;16(4):266–70 (12 ref.) (Eng. Abstr.) **(Fre)**

[Residual histoplasmosis of the lung and bronchopulmonary lymph nodes in autopsies carried out in Uberaba, MG] Adad SJ, et al. **Rev Soc Bras Med Trop** 1996 Sep–Oct; 29(5):491–6 (Eng. Abstr.) **(Por)**

PHYSIOPATHOLOGY

Perfusion of the subfoveal choriocapillaris affects visual recovery after submacular surgery in presumed ocular histoplasmosis syndrome. Akduman L, et al. **Am J Ophthalmol** 1997 Jan;123(1):90–6

PREVENTION & CONTROL

Activation of human macrophage fungistatic activity against Histoplasma capsulatum upon adherence to type 1 collagen matrices. Newman SL, et al. **J Immunol** 1997 Feb 15; 158(4):1779–86

RADIOGRAPHY

[Pulmonary histoplasmoma after travel abroad] Hirsch D, et al. **Pneumologie** 1996 Mar;50(3):242–4 (Eng. Abstr.) **(Ger)**

SURGERY

Perfusion of the subfoveal choriocapillaris affects visual recovery after submacular surgery in presumed ocular histoplasmosis syndrome. Akduman L, et al. **Am J Ophthalmol** 1997 Jan;123(1):90–6

VETERINARY

Confirmed histoplasmosis in an Australian dog. Mackie JT, et al. **Aust Vet J** 1997 May;75(5):362–3

HISTORICAL COHORT STUDIES see **COHORT STUDIES**

HISTORIOGRAPHY

Mechanism of tooth eruption [letter; comment] King R. **Br Dent J** 1997 Jan 25;182(2):49. Comment on: Br Dent J 1996 Aug 10;181(3):91–5.

"Masculine love," Renaissance writing, and the "new invention" of homosexuality: an addendum. Forker CR. **J Homosex** 1996;31(3):85–93

Edwin Clarke, MD, FRCP (1919–1996). Freeman EJ. **Med Hist** 1996 Oct;40(4):499–501

Anna Freud as a historian of psychoanalysis. Young–Bruehl E. **Psychoanal Study Child** 1996;51:56–68

[On Jean Starobinski's birthday. Bibliography of Jean Starobinski's works in the history of medicine (editorial)] Barras V. **Gesnerus** 1995;52(3–4):205–8 **(Fre)**

[Why psychiatric history? (editorial)] Hoff P. **Psychiatr Prax** 1997 Jan;24(1):1–2 **(Ger)**

[Christian Probst (1935–1994): a bibliographic index] Stolberg M. **Sudhoffs Arch Z Wissenschaftsgesch** 1996;80(1):28–37 **(Ger)**

[The inside story of the II edition of the History of Medicine by Władysław Szumowski] Gajda Z. **Przegl Lek** 1997; 54(2):143–5 **(Pol)**

[S. F. Vol'skiĭ—Russian historian of medicine of the 1830s to 1840s] Arkhangel'skiĭ GV. **Probl Sotsialnoi Gig Istor Med** 1997 Mar–Apr;(2):53–5 **(Rus)**

[The classification of the sources in medical history research] Vasil'ev KG. **Probl Sotsialnoi Gig Istor Med** 1995 Jan–Feb; (1):60–2 **(Rus)**

HISTORY OF DENTISTRY

The life of Henry Jeanneret (1802–1886). Pioneer Australian dentist. With an account of his colonial service and scientific contributions in Australia. Pearn J, et al. **Aust Dent J** 1996 Aug;41(4):260–4

Plus ça change.... Sarll DW. **Br Dent J** 1997 Aug 23; 183(4):141–4

Pioneers in oral biology: the migrations of Gottlieb, Kronfeld, Orban, Weinmann, and Sicher from Vienna to America. Kremenak NW, et al. **Crit Rev Oral Biol Med** 1997; 8(2):108–28

Advertising dentistry. Curtis EK. **J Am Coll Dent** 1997 Summer;64(2):39–40

Etymology of the world "stent". Sterioff S. **Mayo Clin Proc** 1997 Apr;72(4):377–9

Dentistry: a look backward and a peek into the future. Ring ME. **N Y State Dent J** 1997 Jan;63(1):40–5

[Dr. Ján Fridrichovský, the first Slovak professor of dentistry at Charles University Medical School] Sedláčková E, et al. **Bratisl Lek Listy** 1997 Mar;98(3):178–9 **(Slo)**

HISTORY OF MEDICINE

The genius of E. E. Metchnikoff—discoveries over the centuries. Petrov RV, et al. **Biosci Rep** 1996 Apr; 16(2):189–205

How the concept of profession evolved in the work of historians of medicine. Burnham JC. **Bull Hist Med** 1996 Spring;70(1):1–24

Burn this book? Maulitz RC. **Bull Hist Med** 1997 Spring; 71(1):112–9

Graphical materials online. Maulitz RC. **Bull Hist Med** 1997 Summer;71(2):316–9

The use of historical study in medical research. Jackson M. **Fam Pract** 1996 Dec;13 Suppl 1:S17–21

Medical students and history of medicine: shall the twain meet? Smith M. **J R Soc Med** 1996 Sep;89(9):530

Tomorrow's doctors and the study of the past [see comments] Biddiss M. **Lancet** 1997 Mar 22;349(9055):874–6. Comment in: Lancet 1997 Mar 22;349(9055):820. Comment in: Lancet 1997 May 10;349(9062):1393. Comment in: Lancet 1997 May 10;349(9062):1394.

Literature and history in medicine [letter; comment] Grewal N. **Lancet** 1997 May 10;349(9062):1394. Comment on: Lancet 1997 Mar 22;349(9055):874–6.

A manifesto for reading medicine [see comments] Horton R. **Lancet** 1997 Mar 22;349(9055):872–4. Comment in: Lancet 1997 Mar 22;349(9055):820. Comment in: Lancet 1997 May 10;349(9062):1393. Comment in: Lancet 1997 May 10;349(9062):1393–4.

A history for the future. Pini P. **Lancet** 1997 Mar 22; 349(9055):820

Literature and history in medicine [letter; comment] Tattersall R. **Lancet** 1997 May 10;349(9062):1393. Comment on: Lancet 1997 Mar 22;349(9055):872–4. Comment on: Lancet 1997 Mar 22;349(9055):874–6.

Back to the future—the history and philosophy of medicine experiment at Sydney University. Cossart YE, et al. **Med Educ** 1996 Sep;30(5):349–52

Index, volumes 1–38, 1957–1994. **Med Hist** 1996;:1–210

Health care in ancient Rome. Lessons for doctors today. Callahan RD. **N C Med J** 1997 May–Jun;58(3):202–4

Part II—controversies surrounding and following Röntgen's discovery. Peh WC. **Singapore Med J** 1995 Oct;36(5):554–8

[The inside story of the II edition of the History of Medicine by Władysław Szumowski] Gajda Z. **Przegl Lek** 1997; 54(2):143–5 **(Pol)**

[Analysis of history of medicine] Arkhangel'skiĭ GV. **Probl Sotsialnoi Gig Istor Med** 1995 Mar–Apr;(2):51–4 **(Rus)**

[A society of amateurs in the history of medicine] Korostelev NB. **Probl Sotsialnoi Gig Istor Med** 1996 Mar–Apr;(2):61–2 **(Rus)**

[Medical science explains. The art of medicine understands. A new book on medical history from the prehistoric time to the year 2000] Stolt CM. **Lakartidningen** 1997 Jul 9; 94(28–29):2519, 2522–4 **(Swe)**

HISTORY OF MEDICINE, ANCIENT

Renal diseases in the Hippocratic era. Dardioti V, et al. **Am J Nephrol** 1997;17(3–4):214–6

Diseases in the Byzantine world with special emphasis on the nephropathies. Eftychiadis AC. **Am J Nephrol** 1997; 17(3–4):217–21

The parallels between Asclepian and Hippocratic medicine on the island of Kos. Marketos SG. **Am J Nephrol** 1997; 17(3–4):205–8

Influence of Judaism and Jewish physicians on Greek and Byzantine medicine and their contribution to nephrology. Massry SG, et al. **Am J Nephrol** 1997;17(3–4):233–40

The papal contribution to the development of modern medicine. Weisz GM. **Aust N Z J Surg** 1997 Jul;67(7):472–5

The Thucydides syndrome: Ebola déjà vu? (or Ebola reemergent?) [letter] Olson PE, et al. **Emerg Infect Dis** 1996 Apr–Jun;2(2):155–6

HISTORY OF MEDICINE, MEDIEVAL

The Perì ouron treatise of Stephanus of Athens: Byzantine uroscopy of the 6th–7th centuries AD. Angeletti LR, et al. **Am J Nephrol** 1997;17(3–4):228–32

Uroscopy in Byzantium. Diamandopoulos AA. **Am J Nephrol** 1997;17(3–4):222–7

Diseases in the Byzantine world with special emphasis on the nephropathies. Eftychiadis AC. **Am J Nephrol** 1997; 17(3–4):217–21

Influence of Judaism and Jewish physicians on Greek and Byzantine medicine and their contribution to nephrology. Massry SG, et al. **Am J Nephrol** 1997;17(3–4):233–40

The papal contribution to the development of modern medicine. Weisz GM. **Aust N Z J Surg** 1997 Jul;67(7):472–5

The relevance of futility: Jordanus de Turre (fl. 1313–1335) on the treatment of leprosy. Demaitre L. **Bull Hist Med** 1996 Spring;70(1):25–61

The Fielding H. Garrison Lecture. "Bedside manners in the Middle Ages". McVaugh MR. **Bull Hist Med** 1997 Summer; 71(2):201–23

The Henry E. Sigerist Medieval Manuscript Reproduction Collection: a finding list. Schalick WO 3rd. **Bull Hist Med** 1997 Summer;71(2):305–15

Hippocratic ideals, medical ethics, and the practice of medicine in the early Middle Ages: the legacy of the Hippocratic Oath. Galvão–Sobrinho CR. **J Hist Med Allied Sci** 1996 Oct;51(4):438–55

The first theory about hemispheric specialization: fresh light on an old codex. Lokhorst GJ. **J Hist Med Allied Sci** 1996 Jul;51(3):293–312

Receptions of the Hippocratic Oath in the Renaissance: the prohibition of abortion as a case study in reception. Rütten T. **J Hist Med Allied Sci** 1996 Oct;51(4):456–83

Alfred and his excellent medicines. Aronson SM. **Med Health R I** 1996 Nov;79(11):381–2

The oldest English medical textbook. McIlwain JT. **Med Health R I** 1996 Oct;79(10):370–2

Sources for a Galenic visual theory in late thirteenth century. Salmón F. **Sudhoffs Arch Z Wissenschaftsgesch** 1996; 80(2):167–83

[Subjectivity and objectivity, semiotics and diagnosis. An approach to the medieval concept of illness] Riha O. **Sudhoffs Arch Z Wissenschaftsgesch** 1996;80(2):129–49 (Eng. Abstr.) **(Ger)**

[Hippocrates and medieval medicine in Russia] Mirskiy MB. **Probl Sotsialnoi Gig Istor Med** 1997 Jan–Feb;(1):56–60 **(Rus)**

HISTORY OF MEDICINE, MODERN

From Galen to magnetic resonance: history of medicine in Latin America. Lain Entralgo P. **J Med Philos** 1996 Dec; 21(6):571–91

[Centenary of the Millennial Medical Congress] Szállási A. **Orv Hetil** 1996 Jul 14;137(28):1539–42 **(Hun)**

[The Moscow physician and historian of medicine, R. A. Stanelli—author of books on Paracelsus] Arkhangel'skiĭ GV. **Probl Sotsialnoi Gig Istor Med** 1997 Jul–Aug;(4):58–9 **(Rus)**

HISTORY OF MEDICINE, RENAISSANCE see **HISTORY OF MEDICINE, MEDIEVAL**

HISTORY OF MEDICINE, 15TH CENT.

Cistercian medicinal herbs for renal therapy in the 15th century. Iorio L, et al. **Am J Nephrol** 1997;17(3–4):286–8

HISTORY OF MEDICINE, 17TH CENT.

The haberdasher from Birchen Lane. Aronson SM. **Med Health R I** 1997 Feb;80(2):50–1

HISTORY OF MEDICINE, 18TH CENT.

Dr. Ames defines his profession. McCarter D.
Trans Stud Coll Physicians Phila 1995 Dec;17:115–31
[Eighteenth century calendars as a source of Polish medical history] Piotrowski W. **Wiad Lek** 1996;49(7–12):147–51 (Eng. Abstr.) **(Pol)**
[Medical staff: from the history of medicine in Russia in the 18th century] Mirskiĭ MB.
Probl Sotsialnoi Gig Istor Med 1995 Mar–Apr;(2):56–60 **(Rus)**

HISTORY OF MEDICINE, 19TH CENT.

Twain: differences of opinion on the worthiest of all occupations [letter; comment] Golden RL.
Ann Intern Med 1997 Jul 15;127(2):171–2. Comment on: Ann Intern Med 1997 Jan 15;126(2):157–63.
The pre-Flexnerian reports: Mark Twain's criticism of medicine in the United States [see comments] Ober KP. **Ann Intern Med** 1997 Jan 15;126(2):157–63. Comment in: Ann Intern Med 1997 Jul 15;127(2):171–2.
Introduction to special issue on rethinking the reception of the germ theory of disease: comparative perspectives [comment] Tomes NJ, et al. **J Hist Med Allied Sci** 1997 Jan;52(1):7–16. Comment on: J Hist Med Allied Sci 1997 Jan;52(1):17–50. Comment on: J Hist Med Allied Sci 1997 Jan;52(1):51–80. Comment on: J Hist Med Allied Sci 1997 Jan;52(1):81–113. Comment on: J Hist Med Allied Sci 1997 Jan;52(1):114–57.
The rise of Western medicine in India. Arnold D. **Lancet** 1996 Oct 19;348(9034):1075–8
The Stonestreet Medical Museum: rural medicine in Montgomery County. Gay M, et al. **Md Med J** 1996 Oct; 45(10):856–8
History of medicine in Singapore. Cheah JS.
Singapore Med J 1997 Jun;38(6):273–4
Medical history. BeSaw L. **Tex Med** 1997 Jan;93(1):53–6
[What did Orvosi Hetilap write about 100 years ago?] Orvosi H. **Orv Hetil** 1996 May 12;137(19):1041–2 **(Hun)**

HISTORY OF MEDICINE, 20TH CENT.

Medicine in Hong Kong (and China) since 1841 [see comments] Halnan KE. **J R Coll Physicians Lond** 1997 Jul–Aug;31(4):464–7. Comment in: J R Coll Physicians Lond 1997 Jul–Aug;31(4):358–9.
The rise of Western medicine in India. Arnold D. **Lancet** 1996 Oct 19;348(9034):1075–8
History of medicine in Singapore. Cheah JS.
Singapore Med J 1997 Jun;38(6):273–4
Medical history. BeSaw L. **Tex Med** 1997 Jan;93(1):53–6
[Nesterov AI: a founder of medical science] Pokrovskiĭ VI. **Vestn Ross Akad Med Nauk** 1996;(11):6–7 **(Rus)**
[Formation and development of medical science in Siberia] Trufakin VA, et al. **Vestn Ross Akad Med Nauk** 1996; (10):3–8 (Eng. Abstr.) **(Rus)**

HISTORY OF NURSING

Leadership in practice, 1980. [classical article] Christman L. **Image J Nurs Sch** 1997;29(2):128–30; discussion 131
Rufaida al-Asalmiya, the first Muslim nurse. Jan R.
Image J Nurs Sch 1996 Fall;28(3):267–8
Johns Hopkins address: does nursing have a future? Kitson AL. **Image J Nurs Sch** 1997;29(2):111–5
Knowledge, leaders and progress, 1968. [classical article] Schlotfeldt RM. **Image J Nurs Sch** 1997;29(2):123–5; discussion 126–7
The art of nursing in a 'postmodern' context. Lister P.
J Adv Nurs 1997 Jan;25(1):38–44 (50 ref.)
Pastoral care and moral government: early nineteenth century nursing and solutions to the Irish question. Nelson S. **J Adv Nurs** 1997 Jul;26(1):6–14
Nursing files—trash or treasure? Fickeissen JL.
J Prof Nurs 1997 Sep–Oct;13(5):279
Inquiry, insights, and history. Help for the history challenged. Woolley AS. **J Prof Nurs** 1997 May–Jun;13(3):141
Doing history. Woolley AS. **J Prof Nurs** 1997 Jan–Feb; 13(1):5
"Making the best of things": technology in American nursing, 1870–1940. Sandelowski M. **Nurs Hist Rev** 1997;5:3–22
Florence Nightingale's influence on the development and professionalization of modern nursing in Japan. Hisama KK. **Nurs Outlook** 1996 Nov–Dec;44(6):284–8
Professional classifications of American nurses, 1910 to 1935. Lusk B. **West J Nurs Res** 1997 Apr;19(2):227–42

HISTRIONIC PERSONALITY DISORDER

DIAGNOSIS

Sex-role attitudes and clinical appraisal in psychiatry residents. Belitsky CA, et al. **Can J Psychiatry** 1996 Oct; 41(8):503–8

PSYCHOLOGY

'How can we know the dancer from the dance?': hyperbole in hysteria. Riesenberg-Malcolm R. **Int J Psychoanal** 1996 Aug;77 (Pt 4):679–88

THERAPY

Psychotherapy for histrionic personality disorder. Horowitz MJ. **J Psychother Pract Res** 1997 Spring;6(2):93–104; discussion 105–7

HIV

see related
RECEPTORS, HIV
REVERSE TRANSCRIPTASE INHIBITORS
AIDS 1995. Virology: overview. Fenyö EM, et al. **AIDS** 1995;9 Suppl A:S1–3
Susceptibility of peripheral blood mononuclear cells from gorillas, orangutans and baboons to diverse HIV isolates [letter] Locher CP, et al. **AIDS** 1996 Oct;10(12):1438–40
Chemotherapy for AIDS-related malignancies does not increase HIV viraemia [letter] Rutschmann OT, et al. **AIDS** 1997 Jun;11(7):944–5
HIV virology for clinical trials. Shafer RW, et al. **AIDS** 1995; 9 Suppl A:S193–202 (183 ref.)
HIV-1 prevalence in community-wide samples of injecting drug users in London, 1990–1993. Stimson GV, et al. **AIDS** 1996 Jun;10(6):657–66
Pharmacokinetics of hyperimmune anti-human immunodeficiency virus immunoglobulin in persons with AIDS. Fletcher CV, et al.
Antimicrob Agents Chemother 1997 Jul;41(7):1571–4
Reciprocal interactions between human immunodeficiency virus and hepatitis C virus infections. Zylberberg H, et al. **Clin Infect Dis** 1996 Nov;23(5):1117–25 (97 ref.)
Functional design of potential inhibitors of human immunodeficiency virus (HIV) binding to CD4+ target cells: a molecular model of gp120 predicts ligand binding. Gabriel JL, et al. **Drug Des Discov** 1996 Oct;14(2):103–14
HIV and other lentivirus-based vectors [editorial] Lever AM. **Gene Ther** 1996 Jun;3(6):470–1
The role of germs and viruses in children's theories of AIDS (or, AIDS are not Band-Aids). Sigelman CK, et al.
Health Educ Behav 1997 Apr;24(2):191–200
Lack of Epstein-Barr virus replication in human immunodeficiency virus-associated Hodgkin's disease [letter; comment] Brousset P, et al. **Hum Pathol** 1996 Sep; 27(9):996–7. Comment on: Hum Pathol 1995 Nov;26(11):1191–5.
Human immunodeficiency viruses.
IARC Monogr Eval Carcinog Risks Hum 1996;67:31–259 (1141 ref.)
The Internet and medicine: related sites including HIV/AIDS [editorial] Brettle RP. **Int J STD AIDS** 1997 Feb;8(2):71–7 (4 ref.)
A national survey to medical and dental schools to assess the level of undergraduate teaching and research about HIV/AIDS in the UK. Carter YH, et al.
Int J STD AIDS 1997 Feb;8(2):88–94
Incidence of HIV and HTLV-1 infection among sexually transmitted disease clinic attenders in Jamaica. Figueroa JP, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1997 Jul 1;15(3):232–7
Binding analysis of 95 HIV gp120 peptides to HLA-DR1101 and -DR0401 evidenced many HLA-class II binding regions on gp120 and suggested several promiscuous regions. Gaudebout P, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1997 Feb 1;14(2):91–101
Coronary artery bypass grafting in patients with human immunodeficiency virus. Flum DR, et al. **J Card Surg** 1997 Mar–Apr;12(2):98–101
Type frequency and antimicrobial susceptibility of Mycobacterium avium-intracellulare complex strains isolated in Italy from AIDS and non-AIDS patients. Fattorini L, et al. **J Chemother** 1996 Feb;8(1):37–42
HIV-infected Langerhans cells constitute a significant proportion of the epidermal Langerhans cell population throughout the course of HIV disease. Compton CC, et al. **J Invest Dermatol** 1996 Dec;107(6):822–6
Gene therapy: mastering the basics, defining details [news] Jenks S. **J Natl Cancer Inst** 1997 Aug 20;89(16):1182–4
HIV infection with Hodgkin's disease: the virus makes a difference [news] McNeil C. **J Natl Cancer Inst** 1997 Jun 4;89(11):754–5
Association between HIV distal symmetric polyneuropathy and Mycobacterium avium complex infection. Norton GR, et al. **J Neurol Neurosurg Psychiatry** 1996 Dec;61(6):606–9
Dental and research transmission of acquired immune deficiency syndrome? Or, is there any evidence that human immunodeficiency virus is sufficient to cause acquired immune deficiency syndrome? Root-Bernstein RS.
Med Hypotheses 1996 Aug;47(2):117–22
Report of the First Brazilian Symposium on Basic Research in HIV/AIDS. Galvão-Castro B, et al.
Mem Inst Oswaldo Cruz 1996 May-Jun;91(3):329–34
Resources for HIV/AIDS on the Internet. Dewhurst S, et al. **Mol Med Today** 1996 Feb;2(2):52–7
Plea to drop charges in French HIV scandal [news] **Nature** 1997 Mar 20;386(6622):210
Canada calls in police to investigate data loss in HIV blood scandal [news] **Nature** 1997 Feb 13;385(6617):572
Canada's HIV blood inquiry turns poisonous [news] [see comments] Spurgeon D. **Nature** 1996 Dec 19–26; 384(6610):602. Comment in: Nature 1997 Feb 13;385(6617):574.
Mycobacterium tuberculosis enhances iNOS mRNA expression and HIV replication in human astrocytoma cells. Persichini T, et al. **Neuroreport** 1997 May 27;8(8):1897–901
Cryptococcal meningitis in patients with the acquired immunodeficiency syndrome. Zeind CS, et al.
Pharmacotherapy 1996 Jul–Aug;16(4):547–61 (127 ref.)
Development of HIV vectors for anti-HIV gene therapy. Poeschla E, et al. **Proc Natl Acad Sci U S A** 1996 Oct 15;93(21):11395–9 (50 ref.)
'Broken dreams' [news] Jones JS. **S Afr Med J** 1996 Sep; 86(9):1048, 1050
Lymphocyte dynamics, apoptosis and HIV infection. Frost SD, et al. **Trends Microbiol** 1996 Feb;4(2):77–82 (27 ref.)
[Macrophages as production sites of HIV (news)] Schattenfroh S. **Dtsch Med Wochenschr** 1997 Sep 12; 122(37):A7 **(Ger)**
[Blood, AIDS and politics (editorial)] Modan B. **Harefuah** 1996 Jun 2;130(11):748–9 **(Heb)**
[Molecular evolution of viruses] Yamaguchi Y, et al. **Uirusu** 1996 Jun;46(1):1–6 (25 ref.) **(Jpn)**
[Viral load and monitoring of antiretroviral treatment] Soriano V, et al. **Rev Clin Esp** 1996 Dec;196(12):872–7 (53 ref.) **(Spa)**

CHEMISTRY

In vitro activation of HIV RNA expression in peripheral blood lymphocytes as a marker to predict the stability of non-progressive status in long-term survivors. Garbuglia AR, et al. **AIDS** 1996 Jan;10(1):17–21
Solution structure of a polypeptide from the N terminus of the HIV protein Nef. Barnham KJ, et al. **Biochemistry** 1997 May 20;36(20):5970–80
Model compounds in elucidating the structural basis of HIV retrovirus activity. Synthesis of trisodium O-monoalkyl- and O-monoaryldiphosphates. Gregán F, et al.
Boll Chim Farm 1996 Apr;135(4):229–31
A docking and modelling strategy for peptide-RNA complexes: applications to BIV Tat-TAR and HIV Rev-RBE. Srinivasan J, et al. **Fold Des** 1996;1(6):463–72
Protein B23 is an important human factor for the nucleolar localization of the human immunodeficiency virus protein Tat. Li YP. **J Virol** 1997 May;71(5):4098–102
Role REVersal: understanding how RRE RNA binds its peptide ligand. Grate D, et al. **Structure** 1997 Jan 15; 5(1):7–11 (23 ref.)
HIV resources on the Web. **Trends Microbiol** 1997 Jul; 5(7):267

CLASSIFICATION

HIV-1 group O virus identified for the first time in the United States. Rayfield MA, et al. **Emerg Infect Dis** 1996 Jul–Sep;2(3):209–12
Recent aspects of HIV and HIV-related diseases [editorial] Gürtler L. **Infection** 1997 Mar–Apr;25(2):71–3
Molecular epidemiology of HIV in Israel. Gehring S, et al.
J Acquir Immune Defic Syndr Hum Retrovirol 1997 Aug 1;15(4):296–303
The human immunodeficiency virus. Hardy WD Jr.
Med Clin North Am 1996 Nov;80(6):1239–61 (131 ref.)

DRUG EFFECTS

Antiretroviral resistance and HIV vertical transmission. McIntosh K. **Acta Paediatr Suppl** 1997 Jun;421:29–32
Drug resistance in relation to pathogenesis. Richman DD. **AIDS** 1995;9 Suppl A:S49–53 (69 ref.)
HIV protease inhibitors. Winslow DL, et al. **AIDS** 1995;9 Suppl A:S183–92 (129 ref.)
NF-kappa B-independent suppression of HIV expression by ascorbic acid. Harakeh S, et al.
AIDS Res Hum Retroviruses 1997 Feb 10;13(3):235–9
A natural sulfated polysaccharide, calcium spirulan, isolated from Spirulina platensis: in vitro and ex vivo evaluation of anti-herpes simplex virus and anti-human immunodeficiency virus activities. Hayashi K, et al.
AIDS Res Hum Retroviruses 1996 Oct 10;12(15):1463–71
Glutathione inhibits HIV replication by acting at late stages of the virus life cycle. Palamara AT, et al.
AIDS Res Hum Retroviruses 1996 Nov 1;12(16):1537–41
Effects of sho-saiko-to on production of prostaglandin E2 (PGE2), leukotriene B4 (LTB4) and superoxide from peripheral monocytes and polymorphonuclear cells isolated from HIV infected individuals. Miyamoto K, et al.
Am J Chin Med 1996;24(1):1–10
PHS updates guidelines on chemoprophylaxis after occupational HIV exposure [news]
Am J Health Syst Pharm 1996 Aug 1;53(15):1764–6
Evaluation of reverse transcriptase and protease inhibitors in two-drug combinations against human immunodeficiency virus replication. Deminie CA, et al.
Antimicrob Agents Chemother 1996 Jun;40(6):1346–51
Characterization of siamycin I, a human immunodeficiency virus fusion inhibitor. Lin PF, et al.
Antimicrob Agents Chemother 1996 Jan;40(1):133–8
Phosphoramidate derivatives of d4T as inhibitors of HIV: the effect of amino acid variation. McGuigan C, et al.
Antiviral Res 1997 Aug;35(3):195–204
Bicyclams, a class of potent anti-HIV agents, are targeted at the HIV coreceptor fusin/CXCR-4. Schols D, et al.
Antiviral Res 1997 Aug;35(3):147–56
Synthesis and in vitro anti-HIV activity of certain 2-(1H-benzimidazol-2-ylamino)pyrimidin-4(3H)-ones and